



# wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 24, 2024 – 09:06 PM EDT

PDB ID : 6TCD  
Title : Crystal structure of Salmo salar RidA-2  
Authors : Ricagno, S.; Visentin, C.; Di Pisa, F.; Digiovanni, S.; Oberti, L.; Degani, G.;  
Popolo, L.; Bartorelli, A.  
Deposited on : 2019-11-05  
Resolution : 1.36 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](mailto: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>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 1.20.1  
EDS : 2.37.1  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.37.1

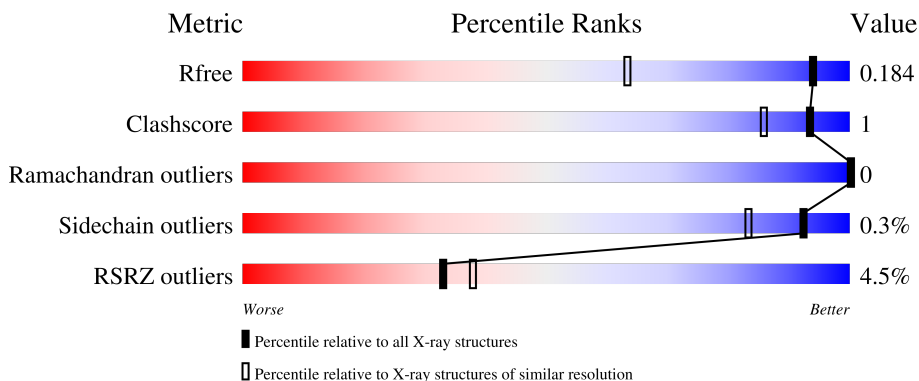
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.36 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.



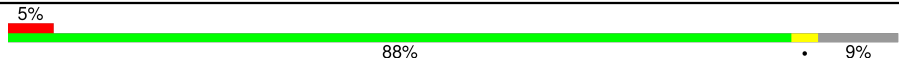
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1509 (1.38-1.34)
Clashscore	141614	1551 (1.38-1.34)
Ramachandran outliers	138981	1530 (1.38-1.34)
Sidechain outliers	138945	1530 (1.38-1.34)
RSRZ outliers	127900	1487 (1.38-1.34)

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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	138	
1	B	138	
1	C	138	
1	D	138	
1	E	138	

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Mol	Chain	Length	Quality of chain
1	F	138	

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	ACT	A	202	-	X	-	-

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 6682 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 Ribonuclease UK114.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	127	955	613	163	175	4	0	1	0
1	B	129	976	626	167	179	4	0	2	0
1	C	129	978	627	167	180	4	0	2	0
1	D	133	1000	639	173	183	5	0	0	0
1	E	130	981	631	165	181	4	0	2	0
1	F	126	940	603	159	174	4	0	0	0

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP C0H8I4
A	-1	SER	-	expression tag	UNP C0H8I4
A	0	HIS	-	expression tag	UNP C0H8I4
B	-2	GLY	-	expression tag	UNP C0H8I4
B	-1	SER	-	expression tag	UNP C0H8I4
B	0	HIS	-	expression tag	UNP C0H8I4
C	-2	GLY	-	expression tag	UNP C0H8I4
C	-1	SER	-	expression tag	UNP C0H8I4
C	0	HIS	-	expression tag	UNP C0H8I4
D	-2	GLY	-	expression tag	UNP C0H8I4
D	-1	SER	-	expression tag	UNP C0H8I4
D	0	HIS	-	expression tag	UNP C0H8I4
E	-2	GLY	-	expression tag	UNP C0H8I4
E	-1	SER	-	expression tag	UNP C0H8I4
E	0	HIS	-	expression tag	UNP C0H8I4
F	-2	GLY	-	expression tag	UNP C0H8I4
F	-1	SER	-	expression tag	UNP C0H8I4

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Chain	Residue	Modelled	Actual	Comment	Reference
F	0	HIS	-	expression tag	UNP C0H8I4

- Molecule 2 is ACETATE ION (three-letter code: ACT) (formula:  $C_2H_3O_2$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	B	1	Total C O 4 2 2	0	0
2	C	1	Total C O 4 2 2	0	0
2	D	1	Total C O 4 2 2	0	0
2	E	1	Total C O 4 2 2	0	0
2	F	1	Total C O 4 2 2	0	0

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula:  $O_4S$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	F	1	Total O S 5 4 1	0	0
3	F	1	Total O S 5 4 1	0	0
3	F	1	Total O S 5 4 1	0	0

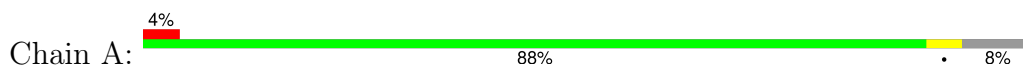
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	132	Total O 132 132	0	0
4	B	142	Total O 142 142	0	0
4	C	142	Total O 142 142	0	0
4	D	131	Total O 131 131	0	0
4	E	128	Total O 128 128	0	0
4	F	134	Total O 134 134	0	0

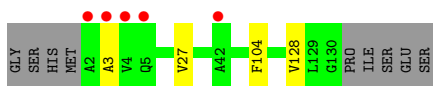
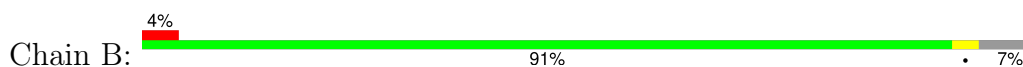
### 3 Residue-property plots [i](#)

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.

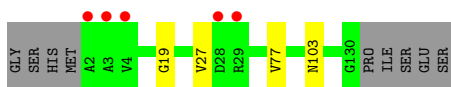
- Molecule 1: Ribonuclease UK114



- Molecule 1: Ribonuclease UK114



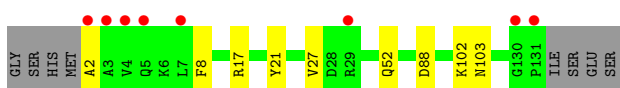
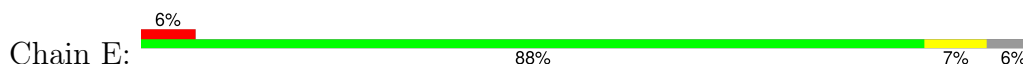
- Molecule 1: Ribonuclease UK114



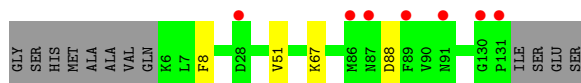
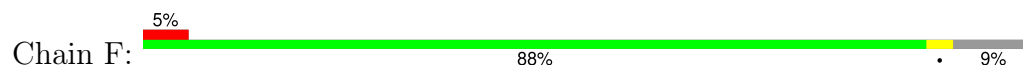
- Molecule 1: Ribonuclease UK114



- Molecule 1: Ribonuclease UK114



- Molecule 1: Ribonuclease UK114





## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	100.88Å 146.57Å 53.68Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.97 – 1.36 43.97 – 1.36	Depositor EDS
% Data completeness (in resolution range)	66.9 (43.97-1.36) 66.9 (43.97-1.36)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.11 (at 1.36Å)	Xtrriage
Refinement program	PHENIX 1.13_2998, PHENIX 1.13_2998	Depositor
R, $R_{free}$	0.159 , 0.184 0.159 , 0.184	Depositor DCC
$R_{free}$ test set	5624 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	15.1	Xtrriage
Anisotropy	0.020	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 45.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.51$ , $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	6682	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	20.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.51% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: ACT, SO4

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	0.34	0/974	0.57	0/1325
1	B	0.34	0/997	0.56	0/1353
1	C	0.35	0/999	0.55	0/1357
1	D	0.35	0/1017	0.55	0/1381
1	E	0.34	0/1003	0.57	0/1364
1	F	0.36	0/956	0.55	0/1301
All	All	0.35	0/5946	0.56	0/8081

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	955	0	972	5	0
1	B	976	0	1003	4	0
1	C	978	0	1005	4	0
1	D	1000	0	1023	5	0
1	E	981	0	1005	7	0
1	F	940	0	950	3	0
2	A	8	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	4	0	3	0	0
2	C	4	0	3	0	0
2	D	4	0	3	0	0
2	E	4	0	3	0	0
2	F	4	0	3	0	0
3	F	15	0	0	0	0
4	A	132	0	0	0	0
4	B	142	0	0	0	0
4	C	142	0	0	0	0
4	D	131	0	0	0	0
4	E	128	0	0	1	0
4	F	134	0	0	0	0
All	All	6682	0	5979	17	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

The worst 5 of 17 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:27[B]:VAL:HG21	1:C:77:VAL:HG11	1.79	0.65
1:A:128:VAL:HG21	1:B:27:VAL:HG21	1.86	0.58
1:A:8:PHE:CZ	1:C:103:ASN:HB3	2.44	0.52
1:D:130:GLY:HA3	1:E:2:ALA:O	2.13	0.48
1:E:52:GLN:NE2	4:E:302:HOH:O	2.47	0.46

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	126/138 (91%)	124 (98%)	2 (2%)	0	100	100
1	B	129/138 (94%)	127 (98%)	2 (2%)	0	100	100
1	C	129/138 (94%)	127 (98%)	2 (2%)	0	100	100
1	D	131/138 (95%)	130 (99%)	1 (1%)	0	100	100
1	E	130/138 (94%)	126 (97%)	4 (3%)	0	100	100
1	F	124/138 (90%)	121 (98%)	3 (2%)	0	100	100
All	All	769/828 (93%)	755 (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	99/108 (92%)	99 (100%)	0	100	100
1	B	101/108 (94%)	101 (100%)	0	100	100
1	C	102/108 (94%)	102 (100%)	0	100	100
1	D	104/108 (96%)	104 (100%)	0	100	100
1	E	102/108 (94%)	100 (98%)	2 (2%)	55	21
1	F	97/108 (90%)	97 (100%)	0	100	100
All	All	605/648 (93%)	603 (100%)	2 (0%)	92	83

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	88	ASP
1	E	102	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	87	ASN
1	E	52	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

10 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
2	ACT	E	201	-	3,3,3	1.35	1 (33%)	3,3,3	1.38	0
2	ACT	F	201	-	3,3,3	1.97	1 (33%)	3,3,3	1.61	1 (33%)
2	ACT	C	201	-	3,3,3	1.59	1 (33%)	3,3,3	1.39	0
3	SO4	F	202	-	4,4,4	0.27	0	6,6,6	0.21	0
2	ACT	B	201	-	3,3,3	1.75	1 (33%)	3,3,3	1.22	0
2	ACT	A	202	-	3,3,3	1.96	2 (66%)	3,3,3	1.52	1 (33%)
3	SO4	F	203	-	4,4,4	0.25	0	6,6,6	0.15	0
3	SO4	F	204	-	4,4,4	0.27	0	6,6,6	0.20	0
2	ACT	A	201	-	3,3,3	1.21	0	3,3,3	1.57	0
2	ACT	D	201	-	3,3,3	1.91	1 (33%)	3,3,3	1.60	0

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	201	ACT	CH3-C	3.15	1.61	1.49
2	D	201	ACT	CH3-C	3.01	1.60	1.49
2	A	202	ACT	CH3-C	2.53	1.59	1.49
2	B	201	ACT	CH3-C	2.40	1.58	1.49
2	A	202	ACT	O-C	2.21	1.31	1.22

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	202	ACT	OXT-C-O	2.07	129.72	122.03
2	F	201	ACT	O-C-CH3	-2.03	114.21	122.53

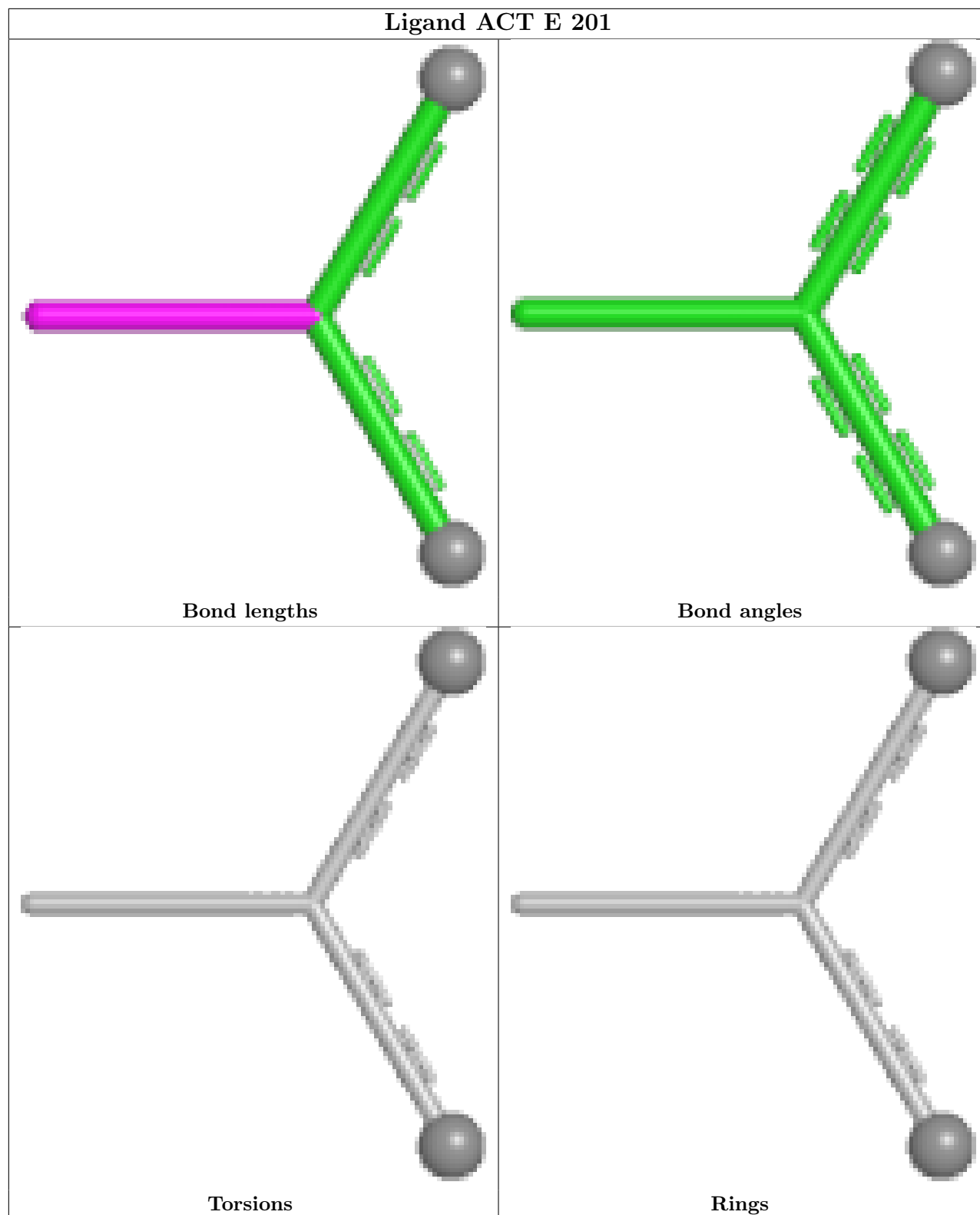
There are no chirality outliers.

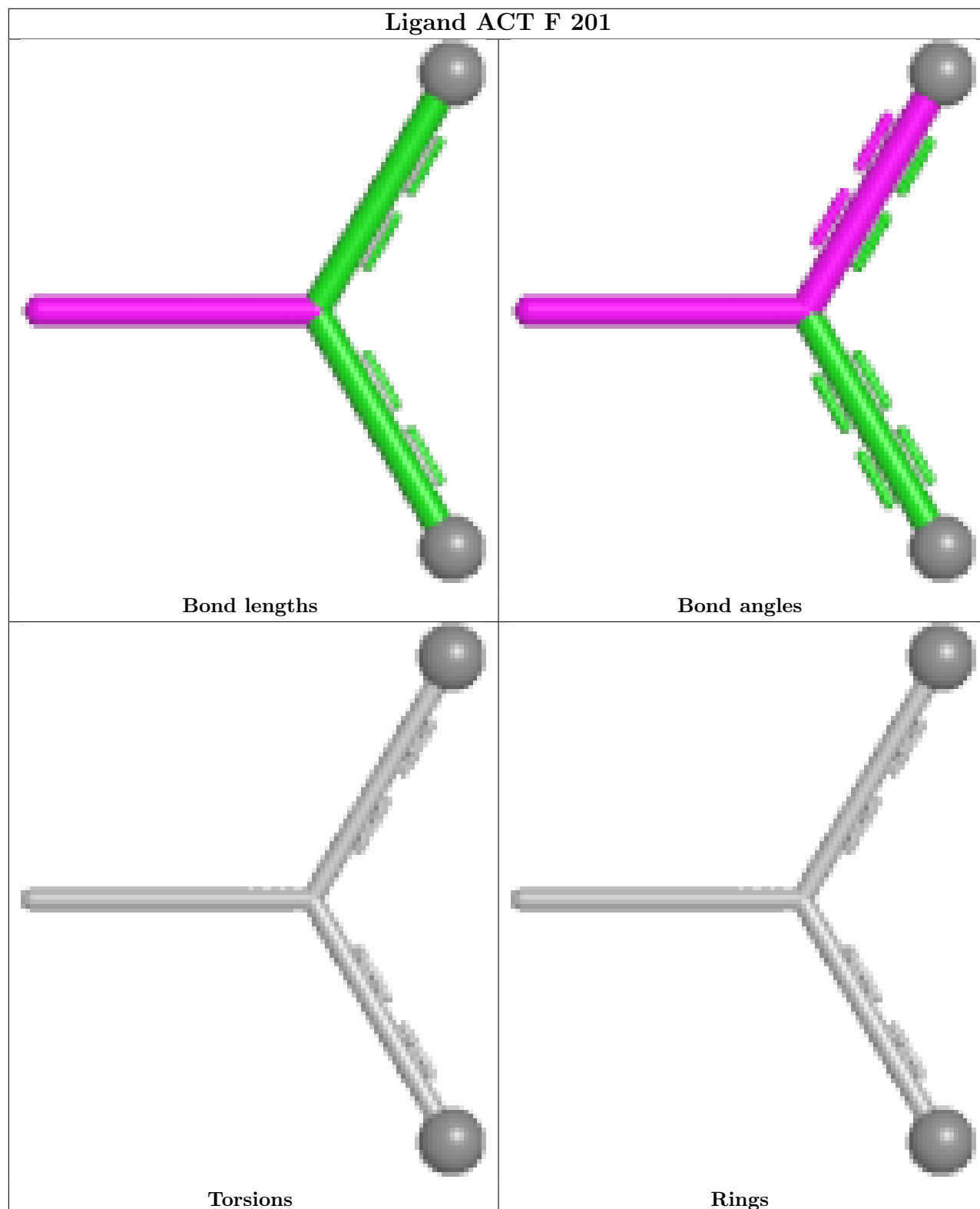
There are no torsion outliers.

There are no ring outliers.

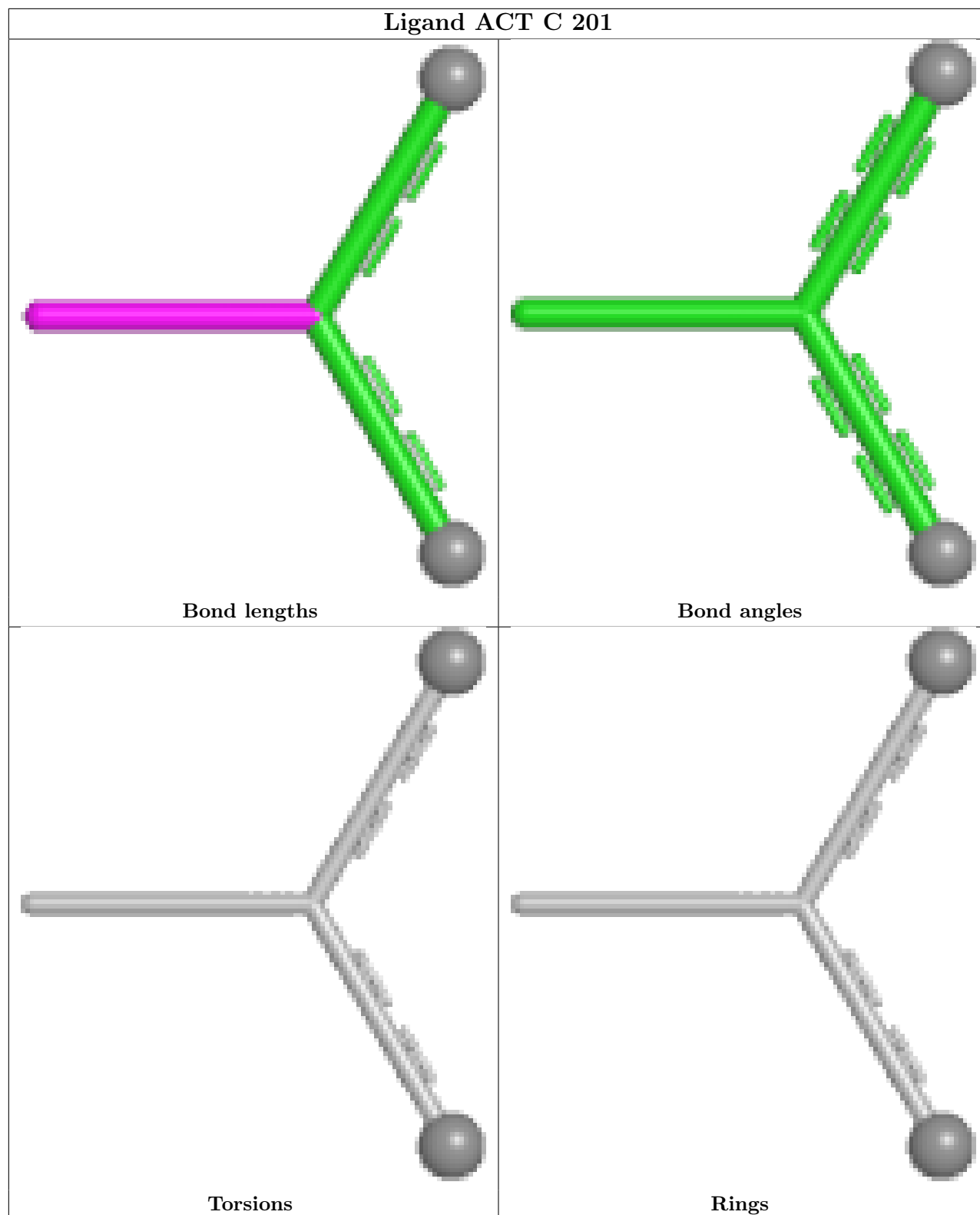
No monomer is involved in short contacts.

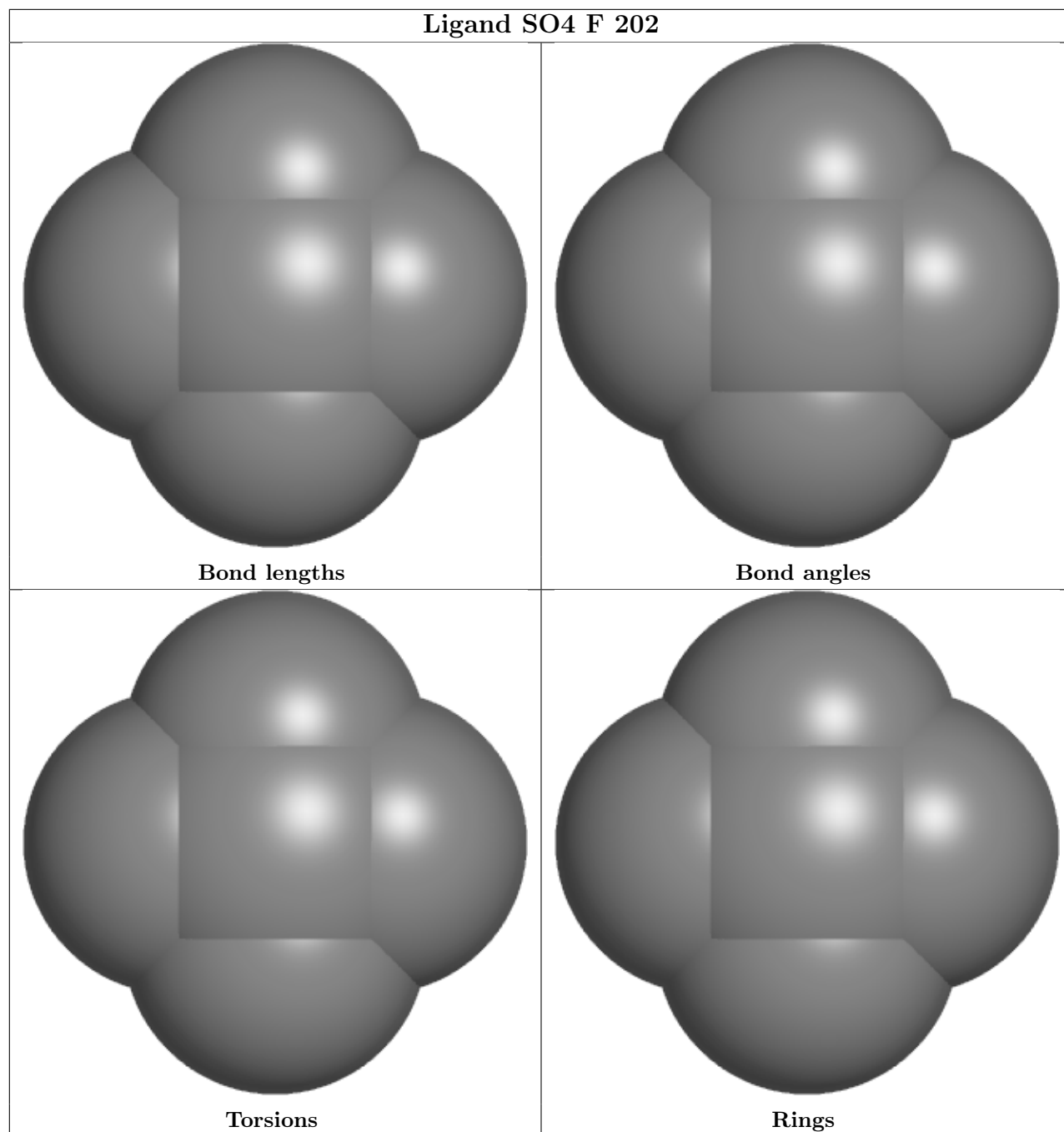
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

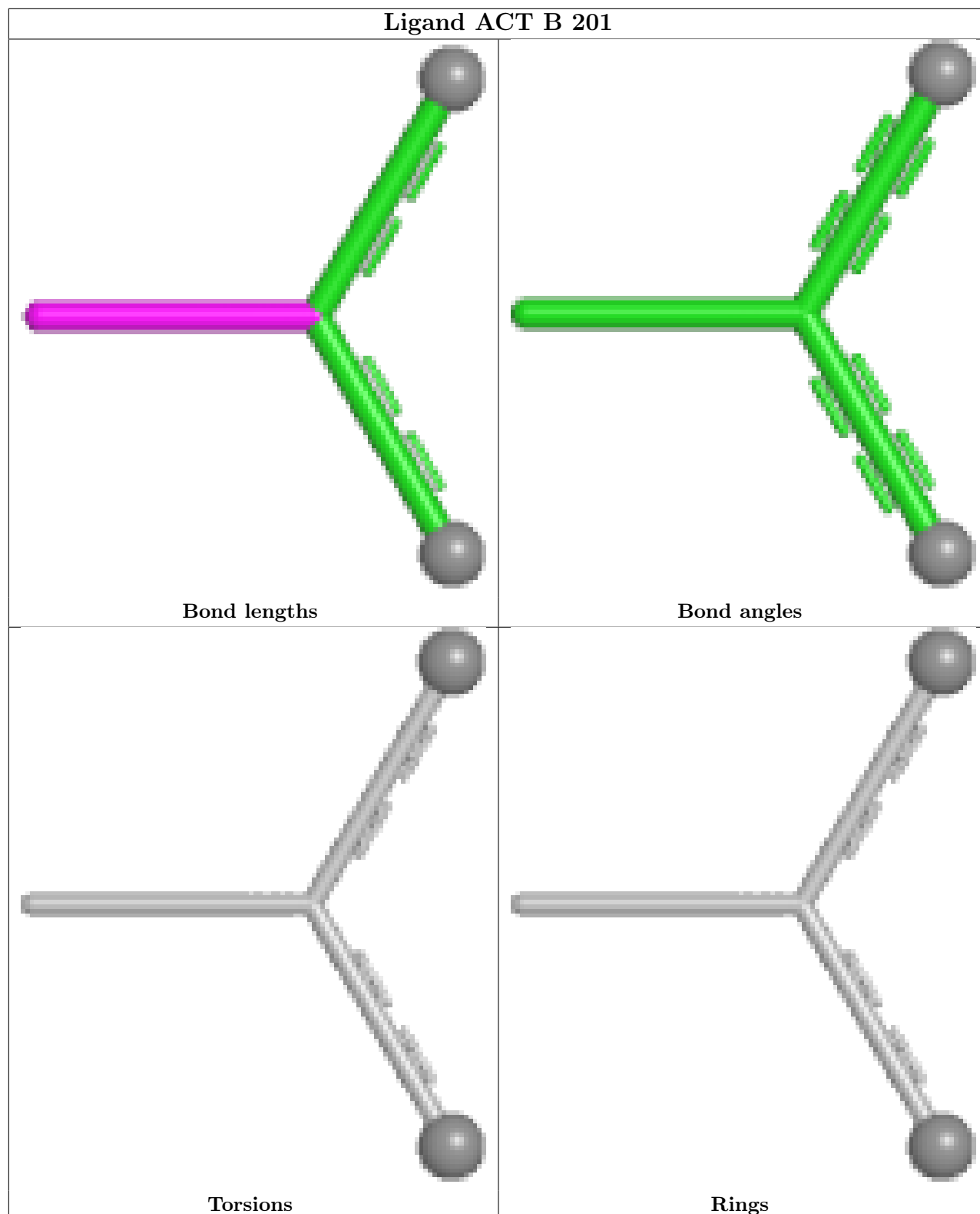


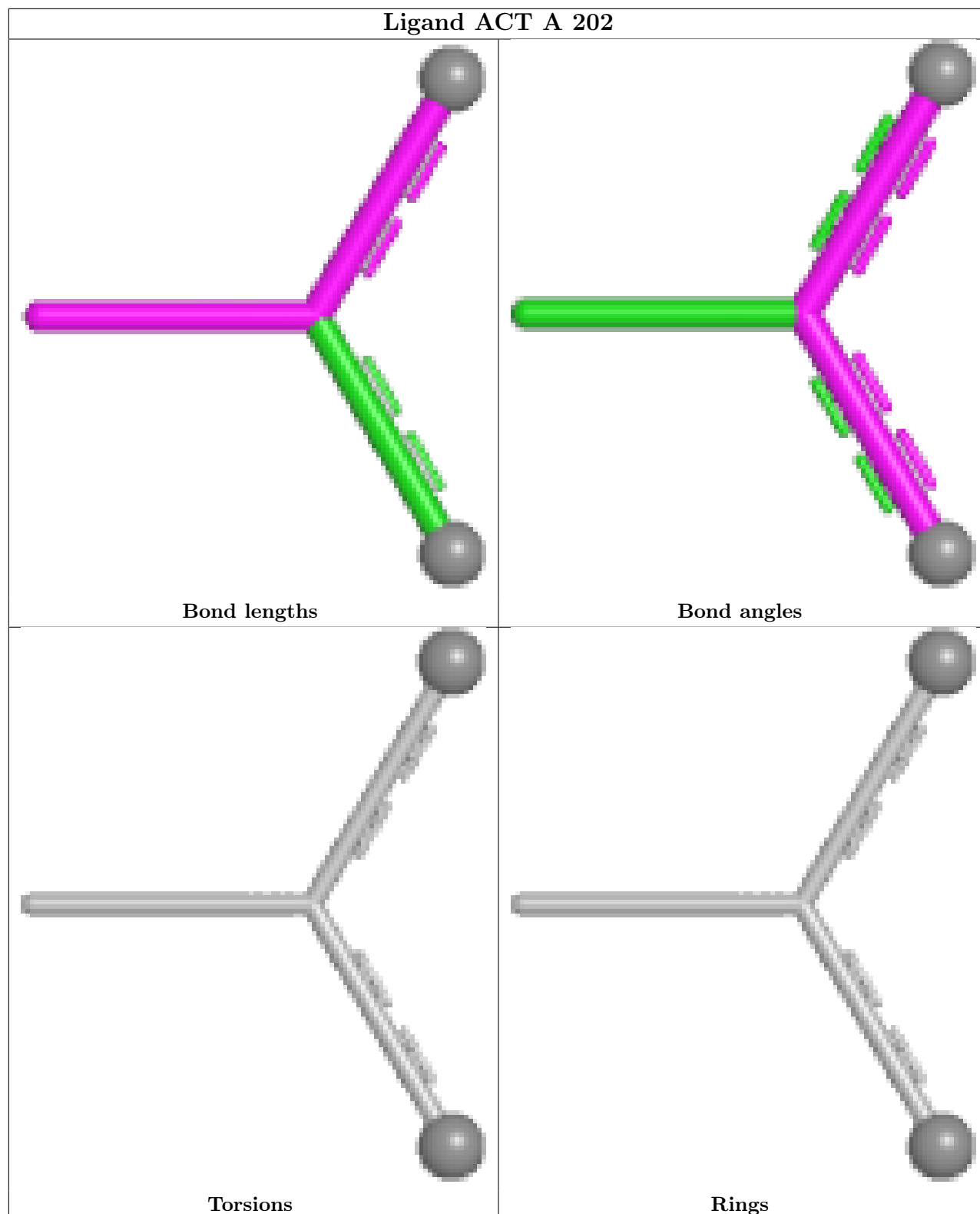




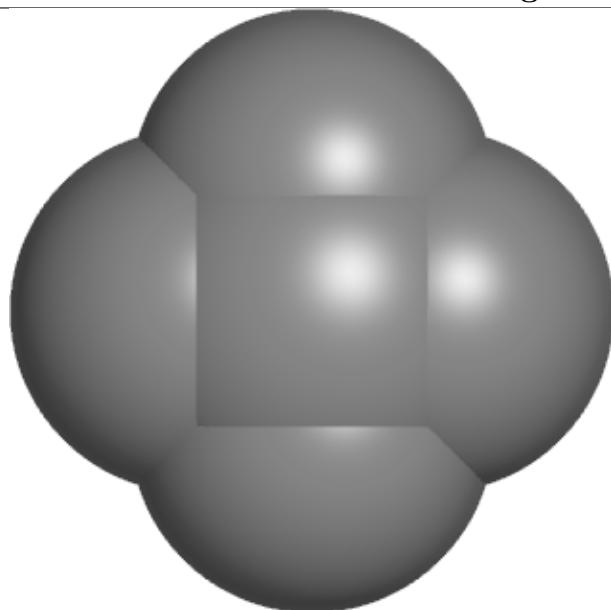




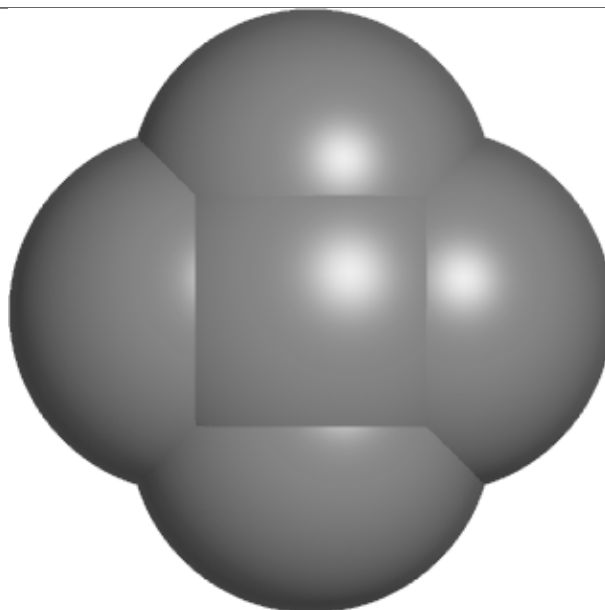




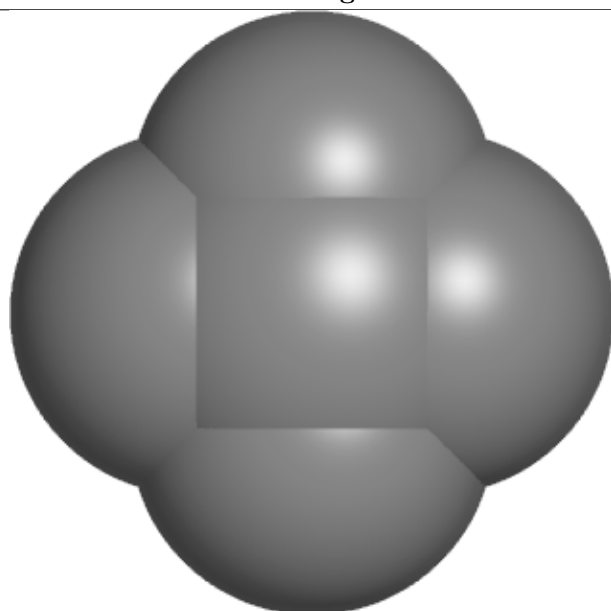
## Ligand SO4 F 203



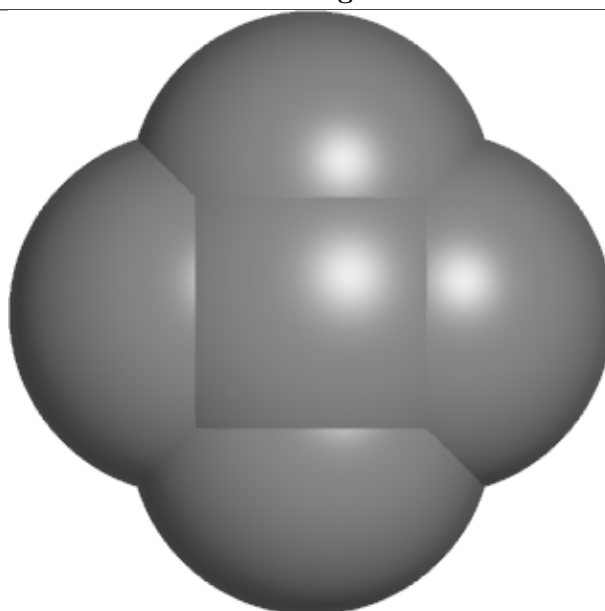
Bond lengths



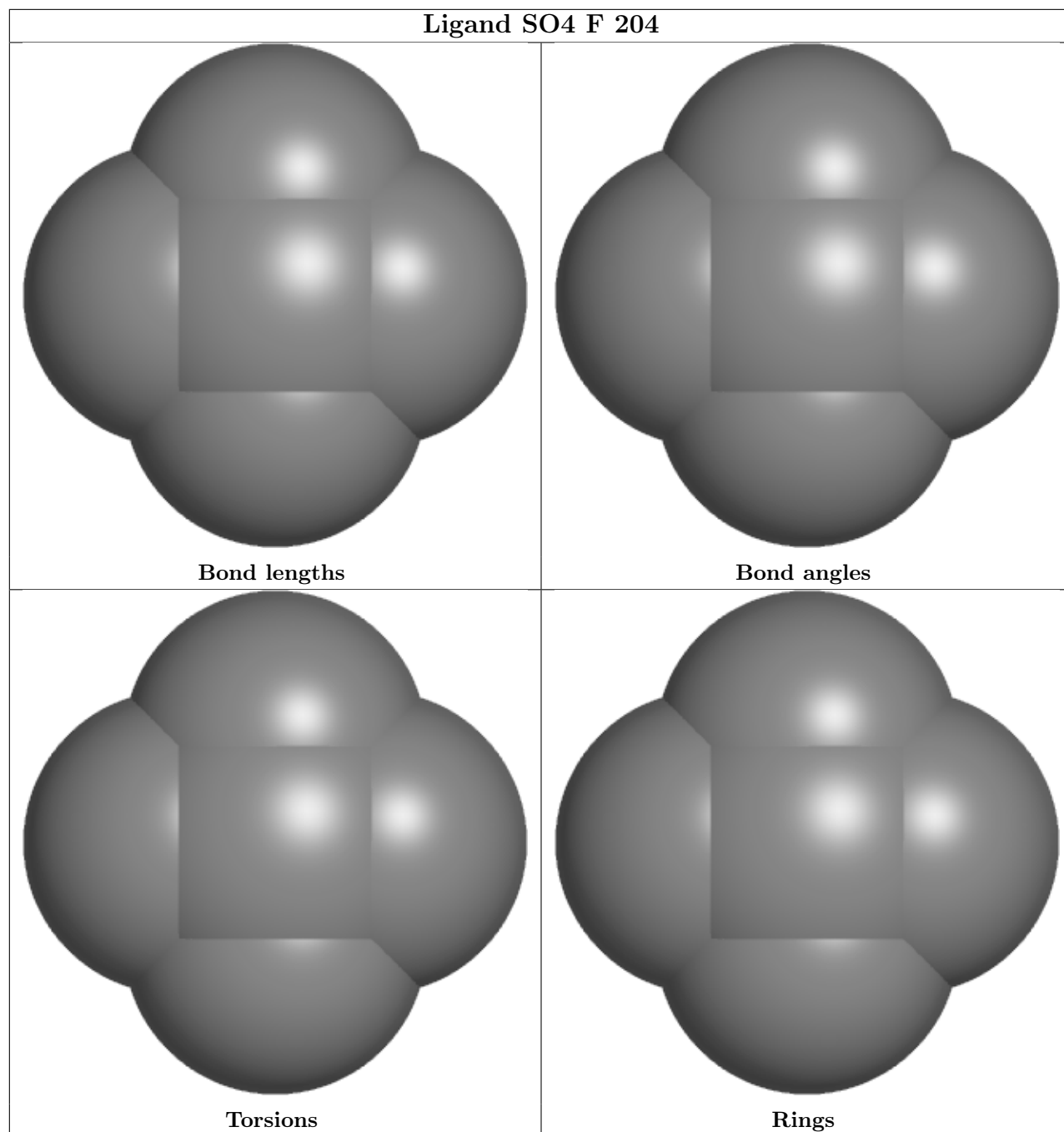
Bond angles

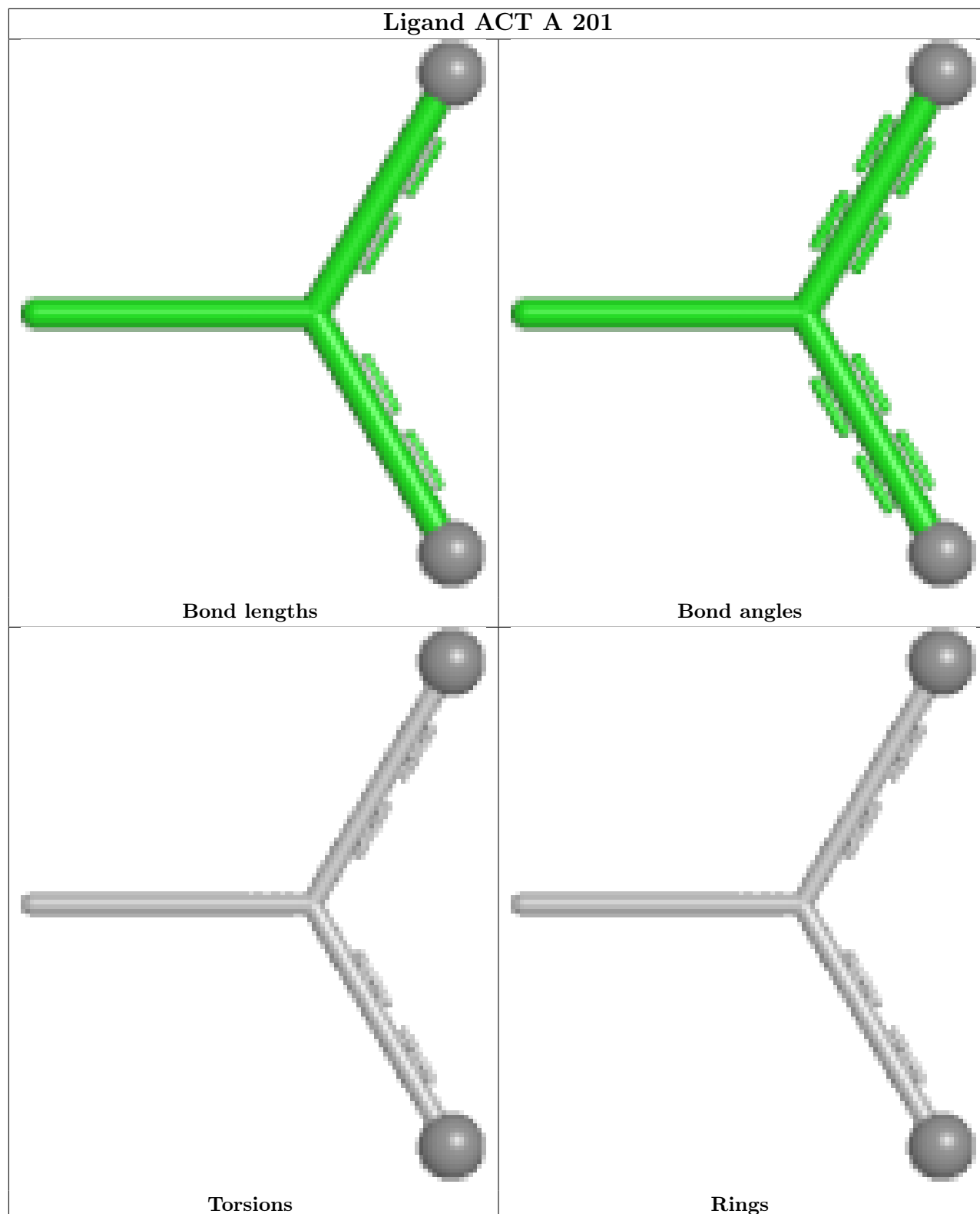


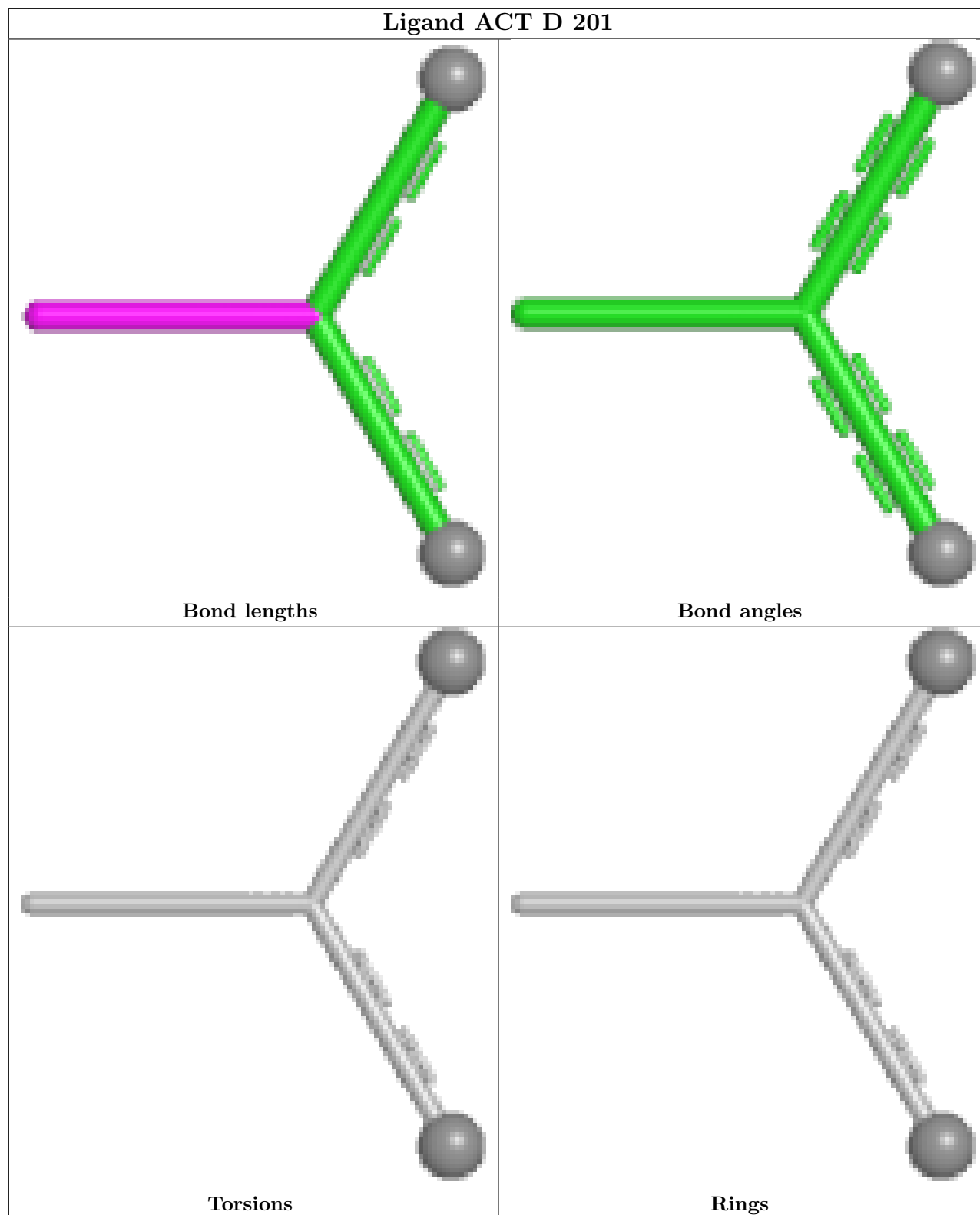
Torsions



Rings







## 5.7 Other polymers [i](#)

There are no such residues in this entry.



## 5.8 Polymer linkage issues

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	127/138 (92%)	0.11	5 (3%) 39 45	12, 17, 31, 56	1 (0%)
1	B	129/138 (93%)	-0.01	5 (3%) 39 45	11, 17, 34, 67	0
1	C	129/138 (93%)	0.08	5 (3%) 39 45	10, 16, 33, 47	0
1	D	133/138 (96%)	0.11	5 (3%) 40 45	12, 17, 33, 48	0
1	E	130/138 (94%)	0.17	8 (6%) 20 22	10, 16, 38, 54	0
1	F	126/138 (91%)	0.00	7 (5%) 24 27	11, 17, 33, 63	0
All	All	774/828 (93%)	0.08	35 (4%) 33 38	10, 17, 34, 67	1 (0%)

The worst 5 of 35 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	4	VAL	13.5
1	A	131	PRO	10.0
1	B	2	ALA	9.6
1	E	131	PRO	7.6
1	E	3	ALA	7.2

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

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

### 6.3 Carbohydrates [i](#)

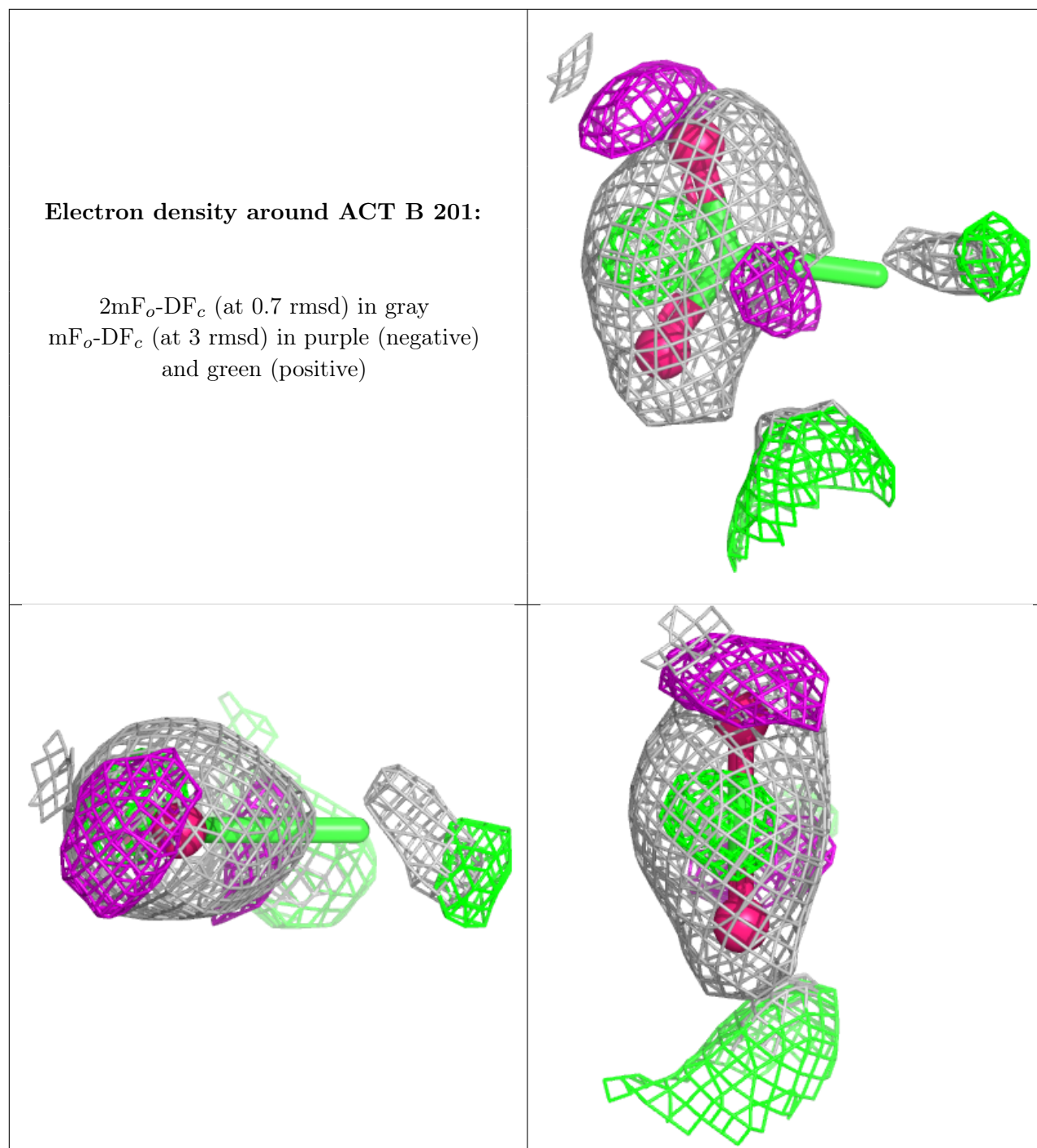
There are no monosaccharides in this entry.

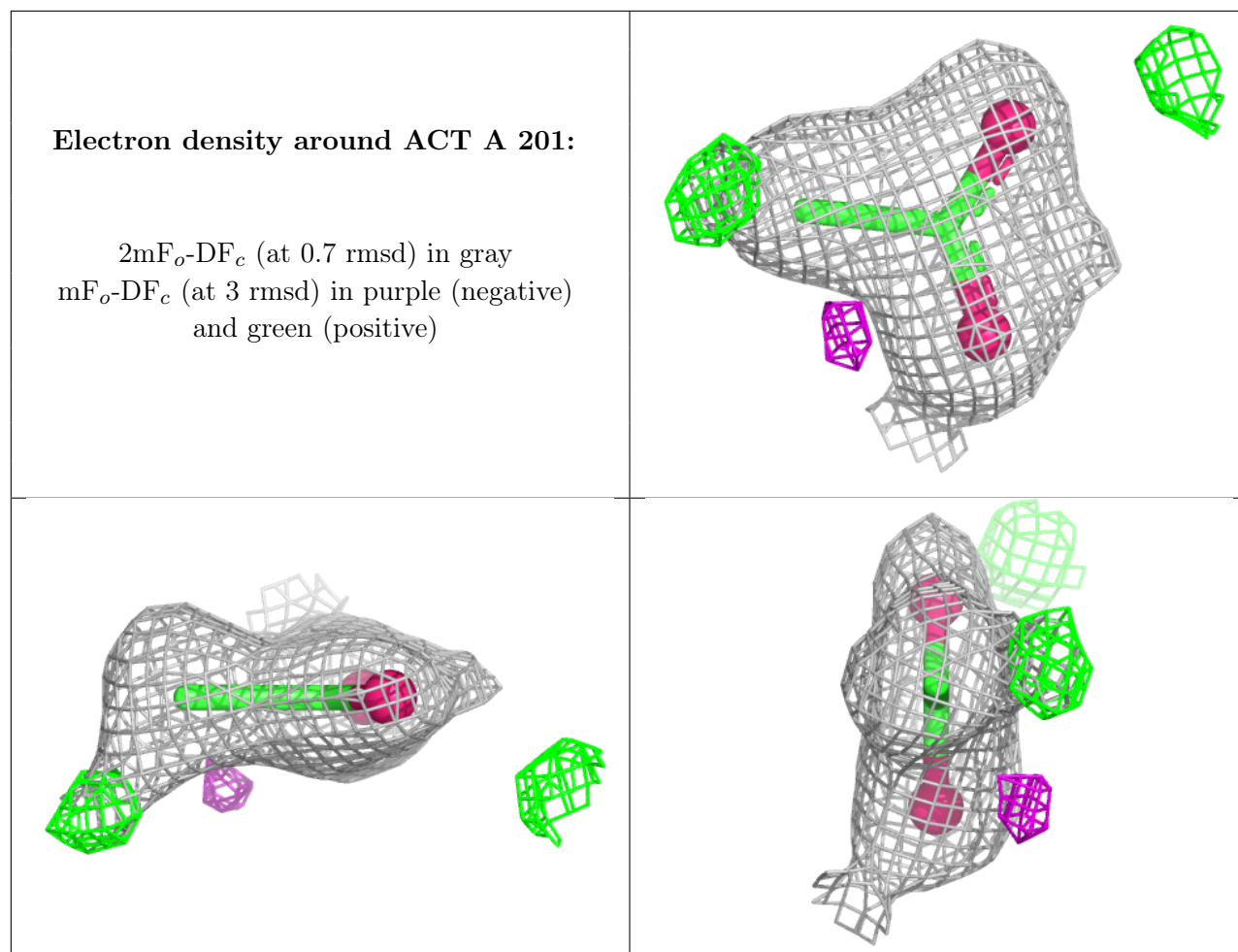
## 6.4 Ligands

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
2	ACT	B	201	4/4	0.85	0.26	24,33,55,56	0
2	ACT	A	201	4/4	0.89	0.18	27,33,51,69	0
2	ACT	D	201	4/4	0.90	0.11	20,25,27,48	0
2	ACT	F	201	4/4	0.93	0.14	18,24,32,66	0
2	ACT	A	202	4/4	0.95	0.10	16,18,32,38	0
2	ACT	E	201	4/4	0.96	0.08	13,16,16,16	0
3	SO4	F	203	5/5	0.97	0.09	16,23,31,53	5
3	SO4	F	204	5/5	0.97	0.10	15,22,34,36	5
2	ACT	C	201	4/4	0.98	0.07	13,15,15,19	0
3	SO4	F	202	5/5	0.99	0.04	15,15,18,19	5

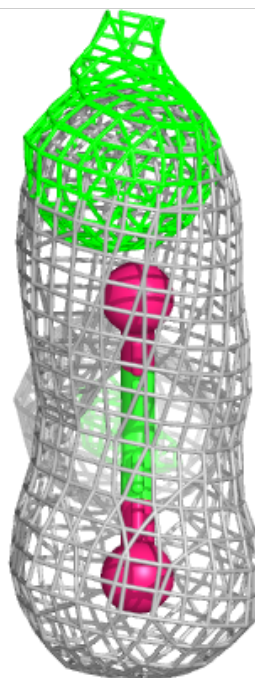
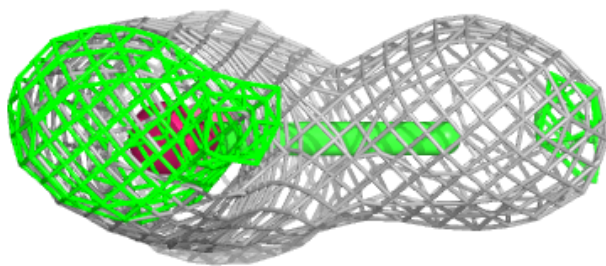
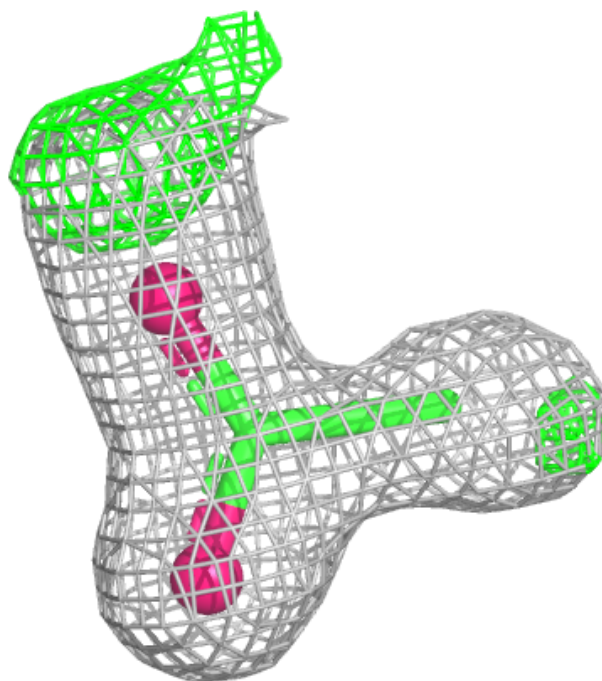
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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





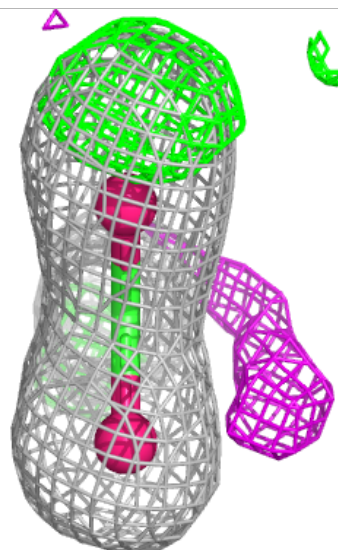
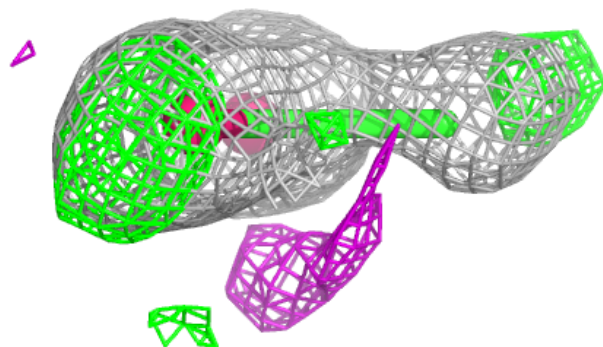
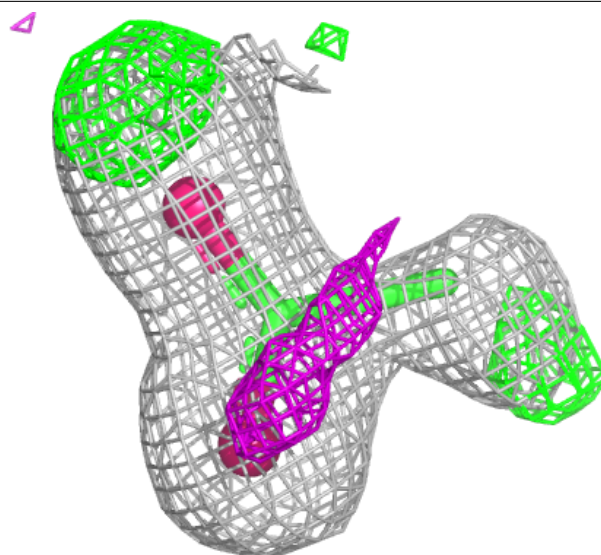
**Electron density around ACT D 201:**

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



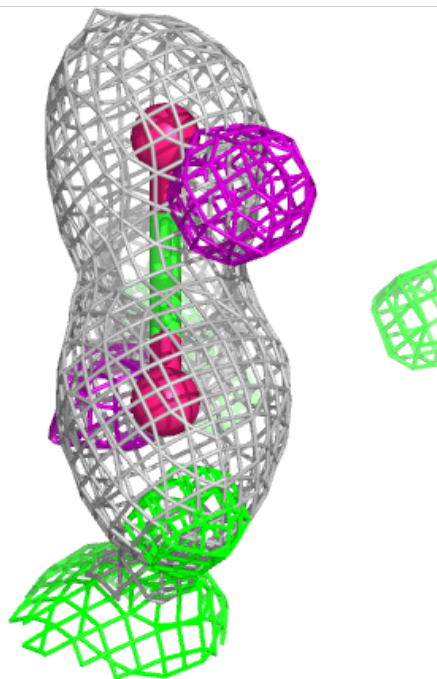
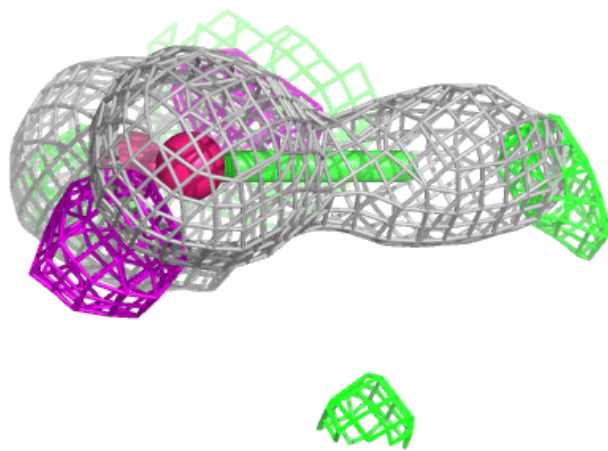
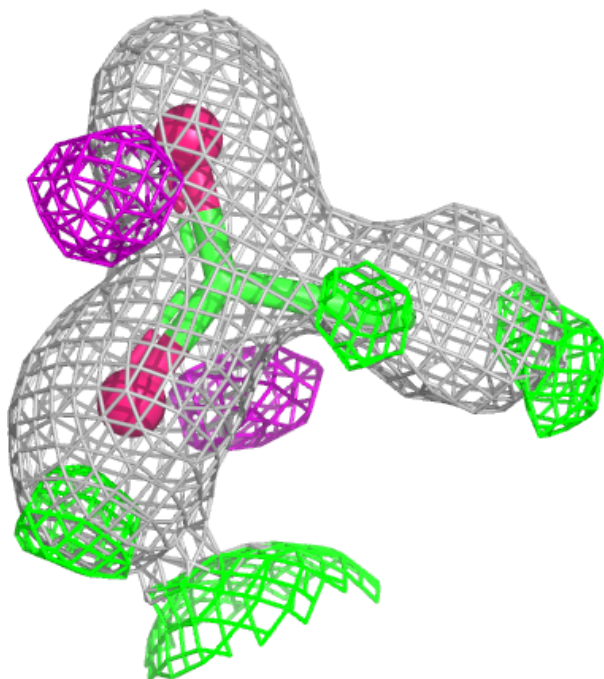
**Electron density around ACT F 201:**

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



**Electron density around ACT A 202:**

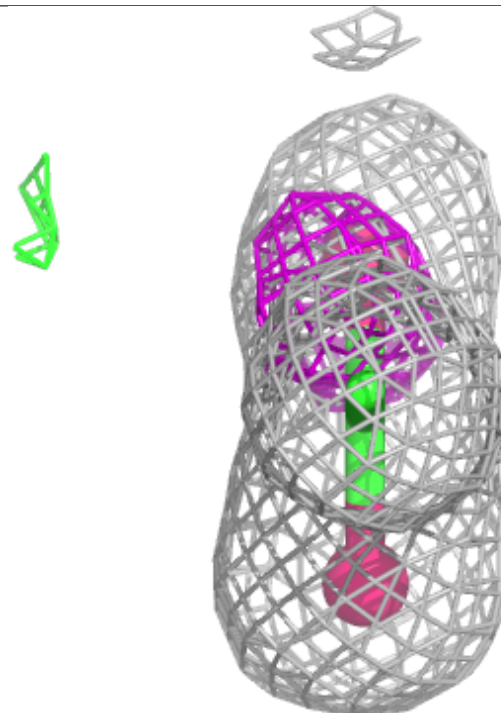
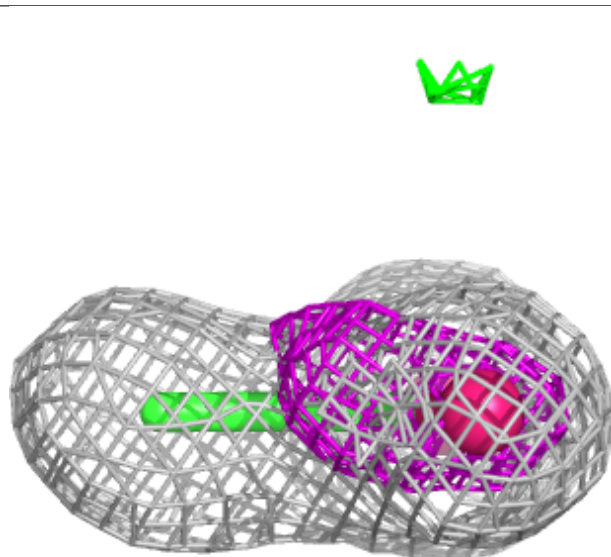
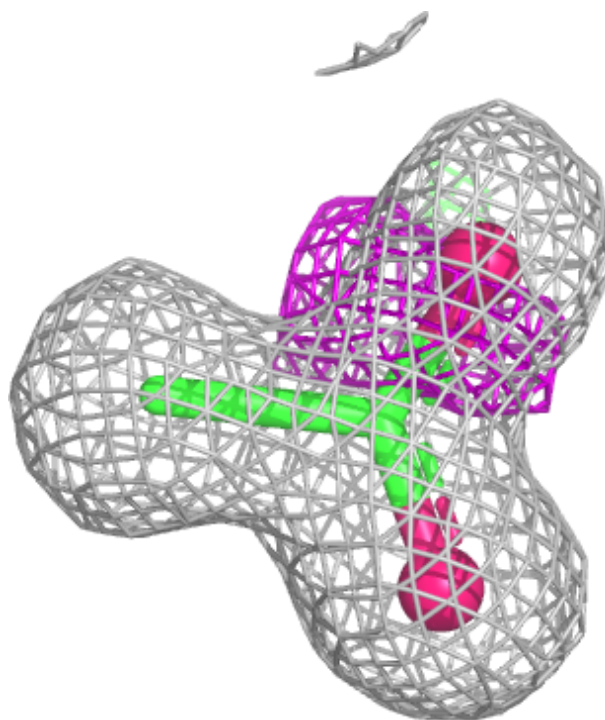
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





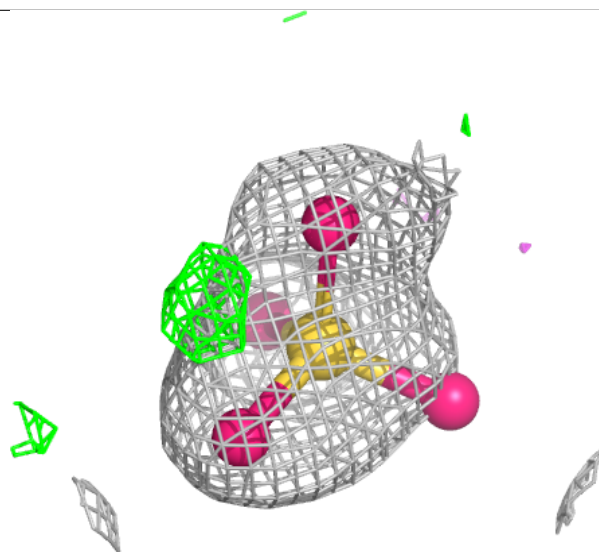
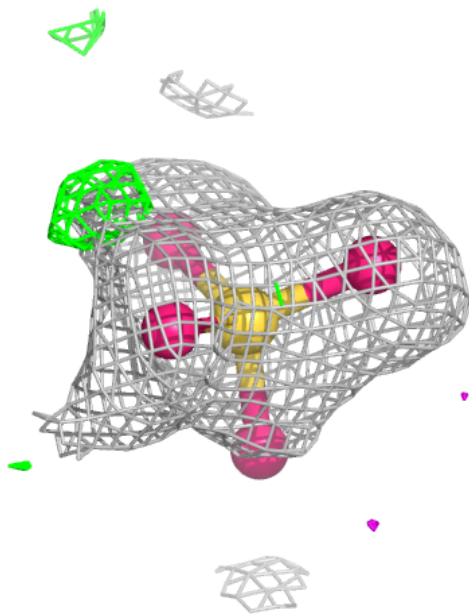
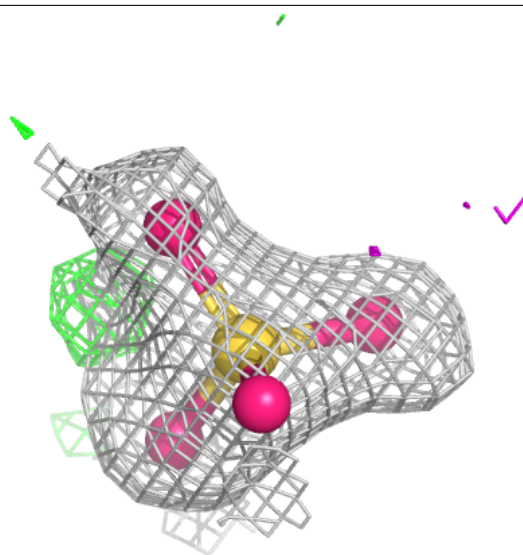
**Electron density around ACT E 201:**

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



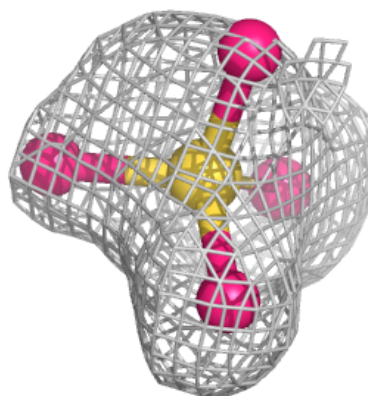
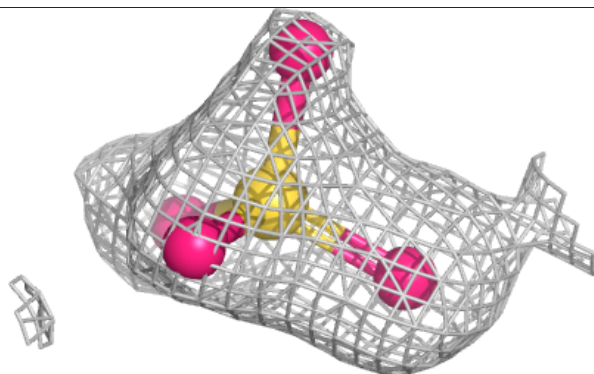
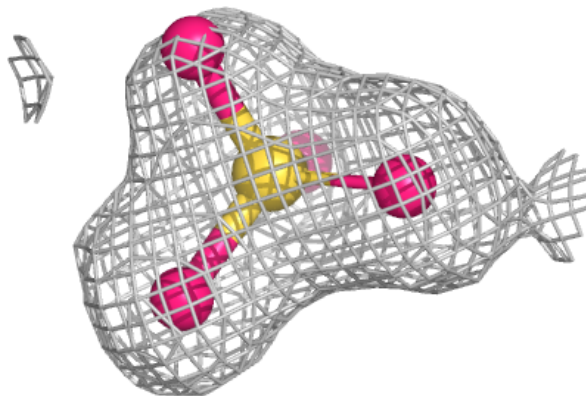
**Electron density around SO4 F 203:**

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



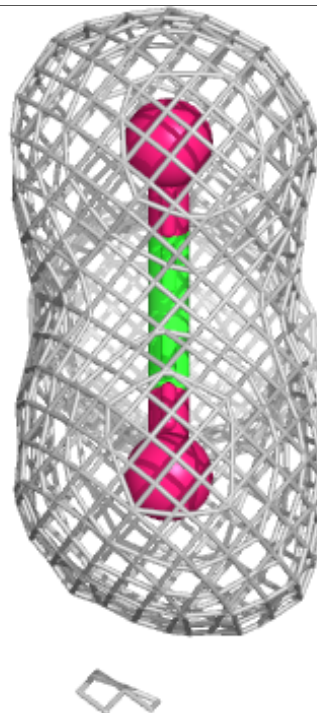
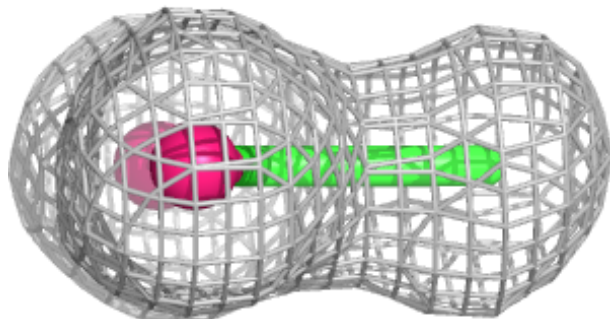
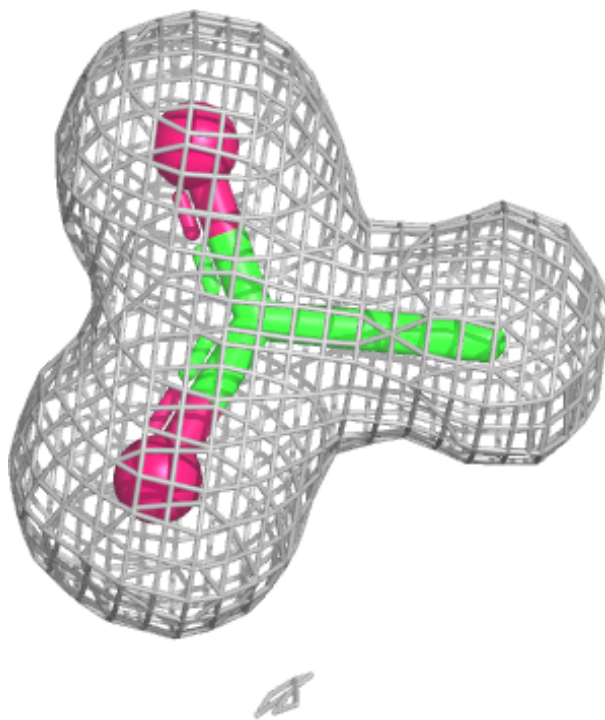
**Electron density around SO4 F 204:**

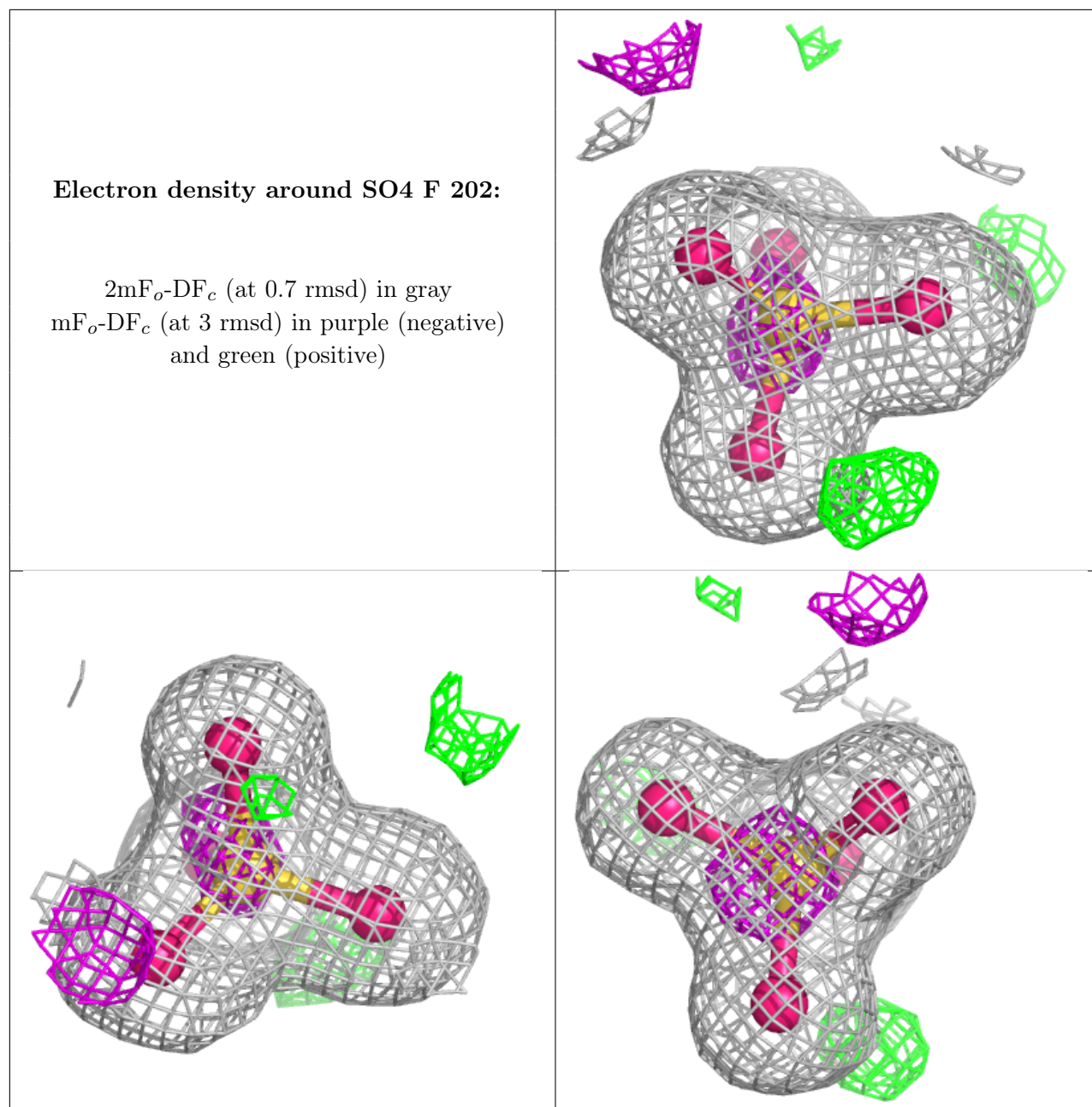
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around ACT C 201:**

$2mF_o-DF_c$  (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.