

wwPDB X-ray Structure Validation Summary Report (i)

Oct 10, 2023 – 02:04 AM EDT

PDB ID	:	7SZE
Title	:	Structure of the Rieske Non-heme Iron Oxygenase GxtA with Saxitoxin Bound
Authors	:	Bridwell-Rabb, J.; Liu, J.
Deposited on		
Resolution	:	1.74 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 (i) 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 (1)) were used in the production of this report:

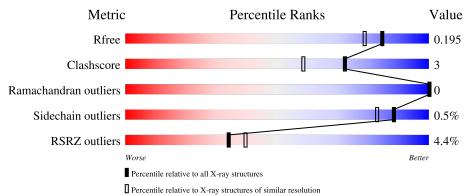
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 1.74 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	3764(1.76-1.72)
Clashscore	141614	3923 (1.76-1.72)
Ramachandran outliers	138981	3878 (1.76-1.72)
Sidechain outliers	138945	3878 (1.76-1.72)
RSRZ outliers	127900	3705 (1.76-1.72)

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 <=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	А	334	90%	6% 5%
1	В	334	<mark>6%</mark> 90%	9% •
1	С	334	3% 	8% •



2 Entry composition (i)

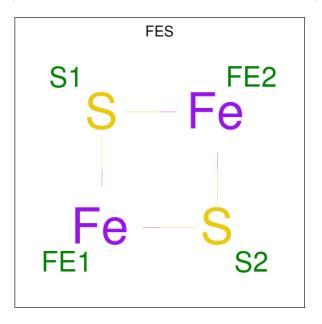
There are 7 unique types of molecules in this entry. The entry contains 9262 atoms, of which 0 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	318	Total	С	Ν	Ο	\mathbf{S}	0	12	0
	А	310	2652	1680	458	493	21	0		
1	р	329	Total	С	Ν	0	S	0	15	0
	ГВ	529	2768	1751	478	517	22			
1	С	326	Total	С	Ν	0	S	0	16	0
I C	520	2745	1733	478	510	24	0	16	0	

• Molecule 1 is a protein called SxtDIOX.

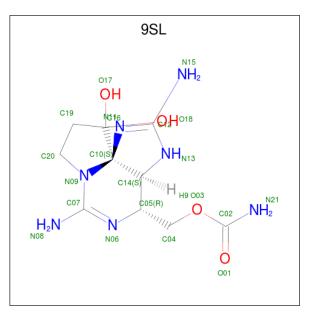
• Molecule 2 is FE2/S2 (INORGANIC) CLUSTER (three-letter code: FES) (formula: Fe₂S₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	TotalFeS422	0	0
2	В	1	TotalFeS422	0	0
2	С	1	TotalFeS422	0	0



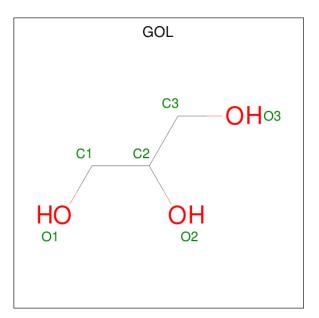
• Molecule 3 is [(3aS,4R,10aS)-2,6-diamino-10,10-dihydroxy-3a,4,9,10-tetrahydro-3H,8H-pyrrolo[1,2-c]purin-4-yl]methyl carbamate (three-letter code: 9SL) (formula: $C_{10}H_{17}N_7O_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total C N O 21 10 7 4	0	0
3	В	1	Total C N O 21 10 7 4	0	0
3	С	1	Total C N O 21 10 7 4	0	0

• Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0

• Molecule 5 is FE (III) ION (three-letter code: FE) (formula: Fe) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total Fe 1 1	0	0
5	В	1	Total Fe 1 1	0	0
5	С	1	Total Fe 1 1	0	0

• Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	3	Total Cl 3 3	0	0
6	В	2	Total Cl 2 2	0	0
6	С	3	Total Cl 3 3	0	0

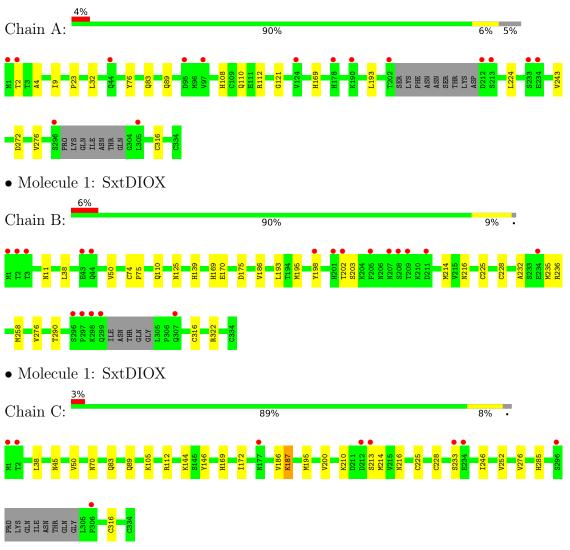
• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	327	Total O 327 327	0	0
7	В	286	Total O 286 286	0	2
7	С	326	Total O 326 326	0	2



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: SxtDIOX



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	74.98Å 96.93Å 80.67Å	Depositor
a, b, c, α , β , γ	90.00° 106.91° 90.00°	Depositor
Resolution (Å)	46.26 - 1.74	Depositor
Resolution (A)	46.26 - 1.74	EDS
% Data completeness	97.2 (46.26-1.74)	Depositor
(in resolution range)	97.2 (46.26-1.74)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.09 (at 1.74 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.19.1_4122	Depositor
D D	0.161 , 0.197	Depositor
R, R_{free}	0.159 , 0.195	DCC
R_{free} test set	5546 reflections (5.02%)	wwPDB-VP
Wilson B-factor $(Å^2)$	25.7	Xtriage
Anisotropy	0.226	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.35, 58.1	EDS
L-test for twinning ²	$ \langle L \rangle = 0.50, \langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	9262	wwPDB-VP
Average B, all atoms $(Å^2)$	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.66% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: GOL, CL, 9SL, FE, FES

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	А	0.41	0/2724	0.59	0/3715	
1	В	0.38	0/2844	0.56	0/3878	
1	С	0.41	0/2818	0.61	0/3844	
All	All	0.40	0/8386	0.59	0/11437	

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	А	2652	0	2557	13	0
1	В	2768	0	2666	21	0
1	С	2745	0	2654	20	0
2	А	4	0	0	0	0
2	В	4	0	0	0	0
2	С	4	0	0	0	0
3	А	21	0	0	0	0
3	В	21	0	0	2	0
3	С	21	0	0	0	0
4	А	18	0	24	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	В	24	0	32	0	0
4	С	30	0	40	1	0
5	А	1	0	0	0	0
5	В	1	0	0	0	0
5	С	1	0	0	0	0
6	А	3	0	0	0	0
6	В	2	0	0	0	0
6	С	3	0	0	1	0
7	А	327	0	0	4	0
7	В	286	0	0	7	0
7	С	326	0	0	4	0
All	All	9262	0	7973	56	0

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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 3.

The worst 5 of 56 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:B:228:CYS:SG	7:B:606[B]:HOH:O	2.12	1.05
3:B:502:9SL:C07	7:B:606[B]:HOH:O	2.13	0.96
1:C:186:VAL:HG22	1:C:316[B]:CYS:SG	2.23	0.78
1:C:45:ASN:N	6:C:511:CL:CL	2.52	0.74
1:A:110[B]:GLN:OE1	1:A:112:ARG:NH2	2.25	0.70

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	А	324/334~(97%)	315 (97%)	9~(3%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	В	340/334~(102%)	332~(98%)	8 (2%)	0	100	100
1	С	338/334~(101%)	324 (96%)	14 (4%)	0	100	100
All	All	1002/1002~(100%)	971 (97%)	31 (3%)	0	100	100

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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	Rotameric Outliers	
1	А	300/304~(99%)	299~(100%)	1 (0%)	92 89
1	В	315/304~(104%)	315 (100%)	0	100 100
1	С	313/304 (103%)	310~(99%)	3 (1%)	76 63
All	All	928/912~(102%)	924 (100%)	4 (0%)	88 86

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	76	TYR
1	С	89	GLN
1	С	172	ILE
1	С	187	LYS

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

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)

Of 29 ligands modelled in this entry, 11 are monoatomic - leaving 18 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	Bo	ond leng	ths	В	ond ang	les
WIOI	Type	Ullalli	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	GOL	А	504	-	$5,\!5,\!5$	0.95	0	$5,\!5,\!5$	0.83	0
4	GOL	С	506	-	$5,\!5,\!5$	0.91	0	$5,\!5,\!5$	0.96	0
2	FES	А	501	1	$0,\!4,\!4$	-	-	-		
4	GOL	В	503	-	$5,\!5,\!5$	0.99	0	$5,\!5,\!5$	1.18	1 (20%)
4	GOL	С	505	-	$5,\!5,\!5$	0.79	0	$5,\!5,\!5$	0.99	0
3	9SL	С	502	-	$17,\!23,\!23$	0.62	0	$13,\!37,\!37$	2.42	3 (23%)
4	GOL	А	503	-	$5,\!5,\!5$	0.90	0	$5,\!5,\!5$	0.94	0
2	FES	С	501	1	0,4,4	-	-	-		
3	9SL	В	502	-	17,23,23	0.73	1 (5%)	$13,\!37,\!37$	2.29	3 (23%)
4	GOL	В	506	-	$5,\!5,\!5$	0.95	0	$5,\!5,\!5$	0.94	0
4	GOL	В	505	-	$5,\!5,\!5$	0.85	0	$5,\!5,\!5$	0.95	0
4	GOL	С	503	-	$5,\!5,\!5$	1.04	0	$5,\!5,\!5$	0.94	0
3	9SL	А	502	-	$17,\!23,\!23$	0.69	1 (5%)	$13,\!37,\!37$	2.37	3 (23%)
4	GOL	С	504	-	$5,\!5,\!5$	0.89	0	$5,\!5,\!5$	0.89	0
4	GOL	А	505	-	$5,\!5,\!5$	0.76	0	$5,\!5,\!5$	1.06	0
2	FES	В	501	1	0,4,4	-	-	-		
4	GOL	В	504	-	$5,\!5,\!5$	0.66	0	$5,\!5,\!5$	1.17	1 (20%)
4	GOL	С	507	-	$5,\!5,\!5$	1.03	0	$5,\!5,\!5$	0.99	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.



Page 1	3	WW	vPDB 2	X-ray S	tructure Va	alidation Sun	nmary Rep	ort
Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings	
4	GOL	А	504	-	-	2/4/4/4	-	
4	GOL	С	506	-	-	2/4/4/4	-	
2	FES	В	501	1	-	-	0/1/1/1	
4	GOL	В	503	-	-	1/4/4/4	-	
4	GOL	С	505	-	-	3/4/4/4	-	
2	FES	А	501	1	-	-	0/1/1/1	
4	GOL	А	503	-	-	0/4/4/4	-	
3	9SL	С	502	-	-	0/5/53/53	0/3/3/3	
2	FES	С	501	1	-	-	0/1/1/1	
3	9SL	В	502	-	-	0/5/53/53	0/3/3/3	
4	GOL	В	505	-	-	2/4/4/4	-	
4	GOL	С	503	-	-	2/4/4/4	-	
3	9SL	А	502	-	-	0/5/53/53	0/3/3/3	
4	GOL	С	504	-	-	2/4/4/4	-	
4	GOL	А	505	-	-	2/4/4/4	-	

All (2) bond length outliers are listed below:

В

В

С

GOL

GOL

 GOL

4

4

4

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
3	В	502	9SL	C12-N15	-2.10	1.29	1.34
3	А	502	9SL	C12-N15	-2.07	1.29	1.34

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-

_

0/4/4/4

0/4/4/4

2/4/4/4

_

-

-

The worst 5 of 11 bond angle outliers are listed below:

506

504

507

_

-

_

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
3	А	502	9SL	N09-C07-N06	-7.49	114.99	125.42
3	С	502	9SL	N09-C07-N06	-7.28	115.28	125.42
3	В	502	9SL	N09-C07-N06	-7.24	115.33	125.42
3	С	502	9SL	N15-C12-N11	3.57	130.92	125.35
3	А	502	9SL	N15-C12-N11	2.90	129.86	125.35

There are no chirality outliers.

5 of 18 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	505	GOL	C1-C2-C3-O3
4	С	503	GOL	C1-C2-C3-O3
4	С	504	GOL	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
4	С	507	GOL	C1-C2-C3-O3
4	А	505	GOL	O2-C2-C3-O3

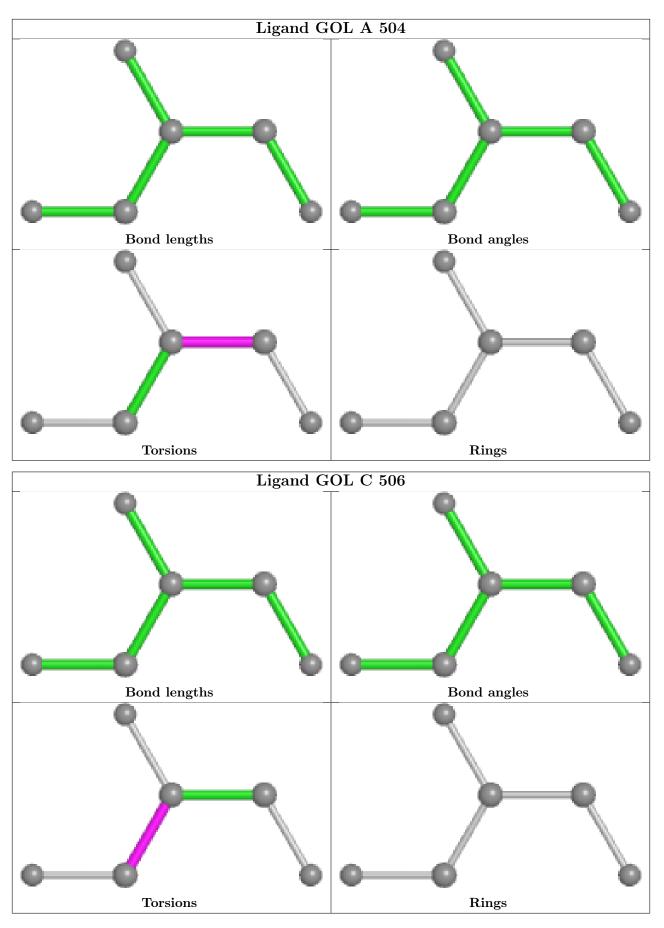
There are no ring outliers.

3 monomers are involved in 4 short contacts:

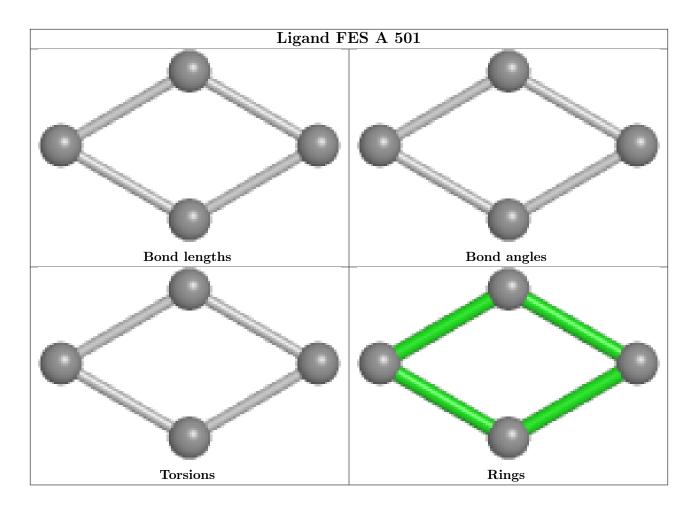
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	504	GOL	1	0
3	В	502	9SL	2	0
4	С	507	GOL	1	0

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 then 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.

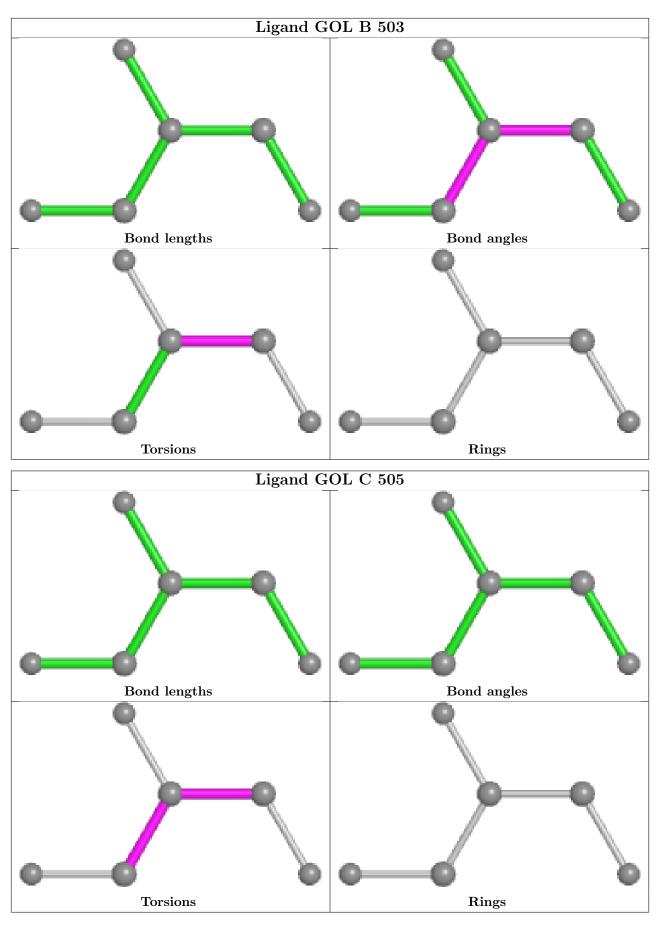






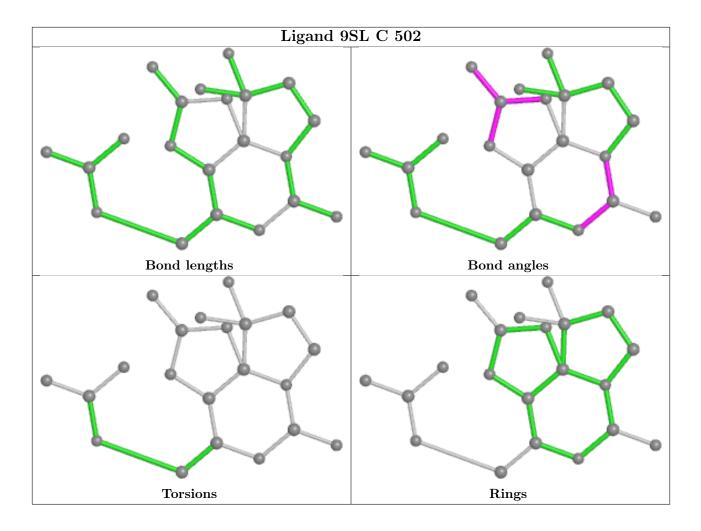




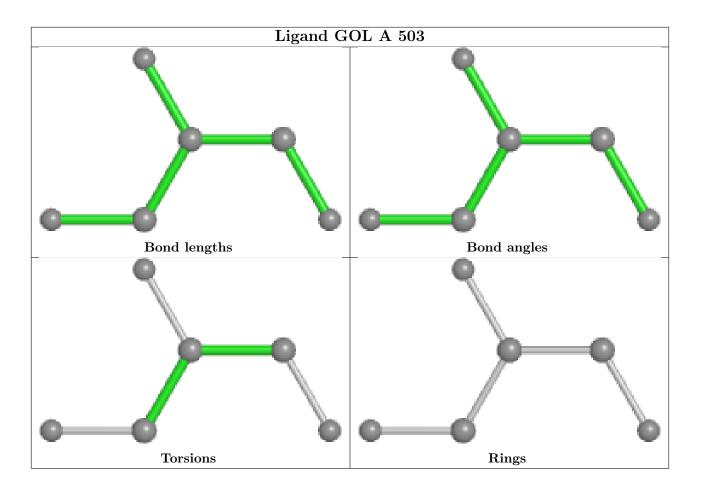




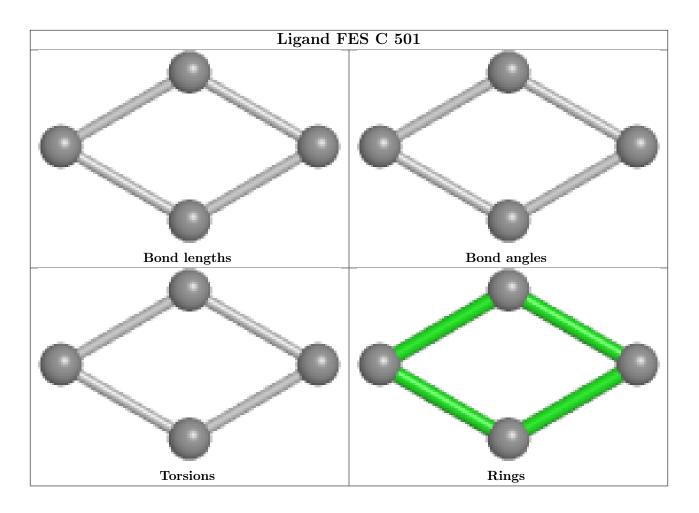






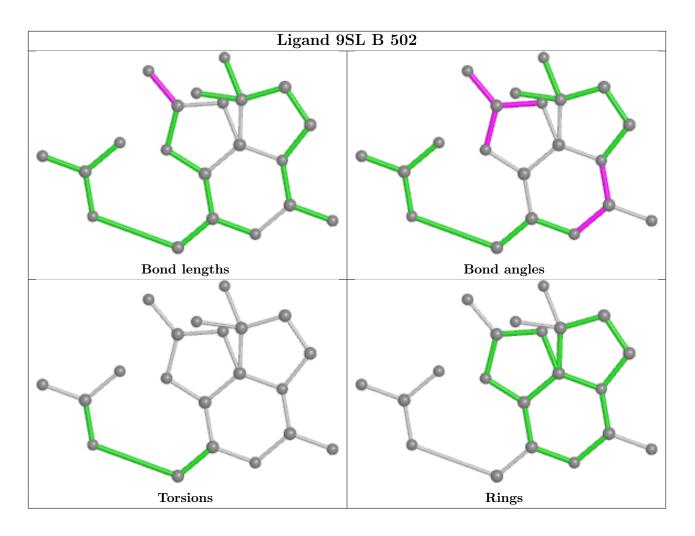




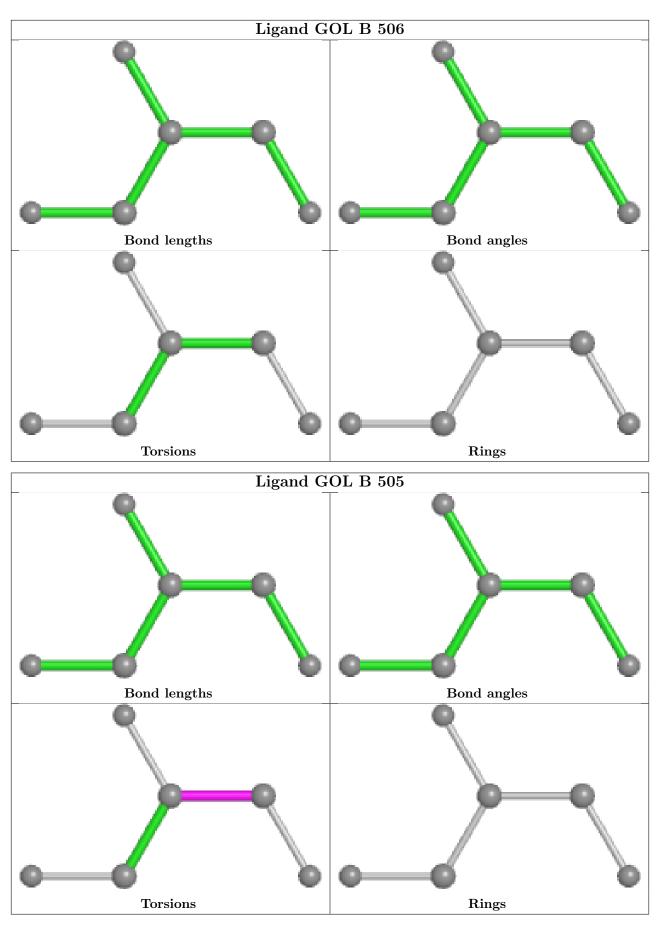




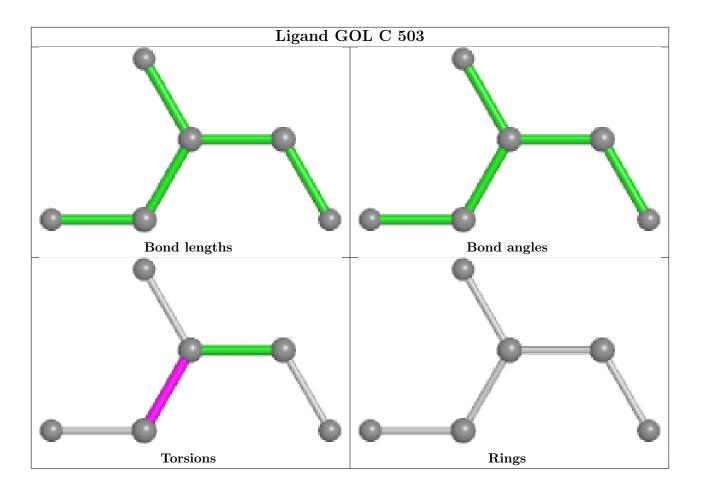






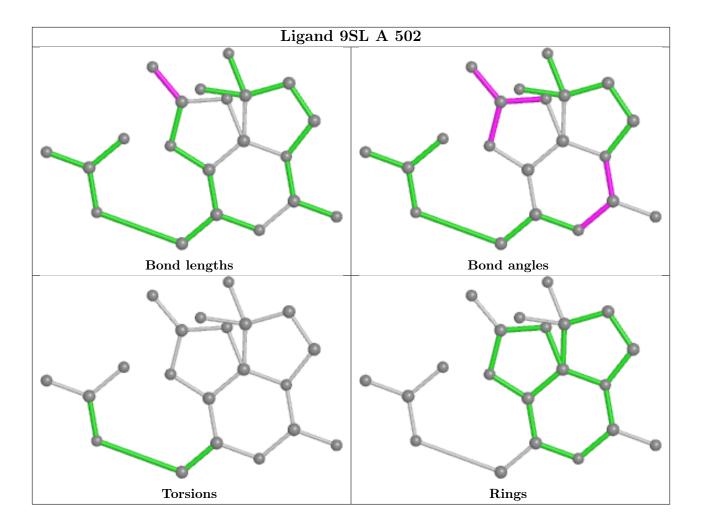




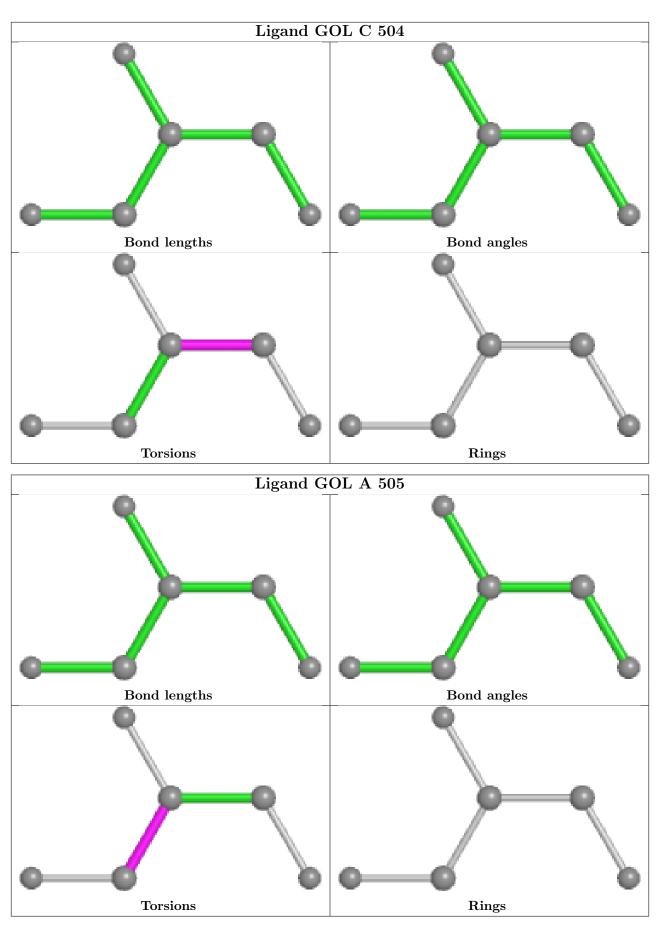






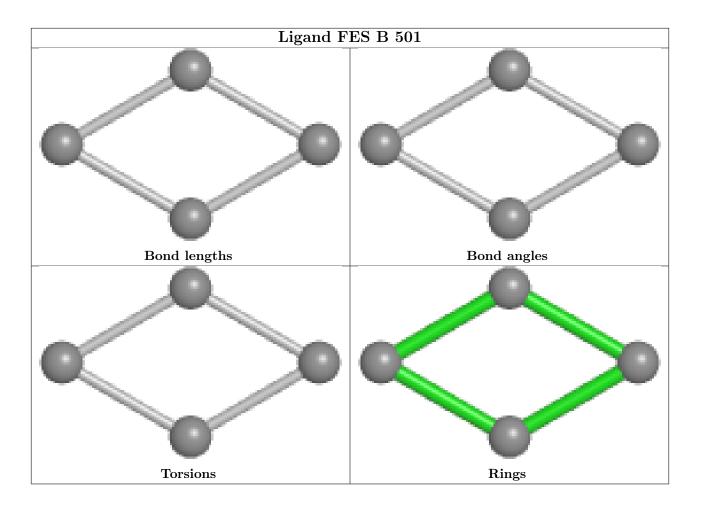




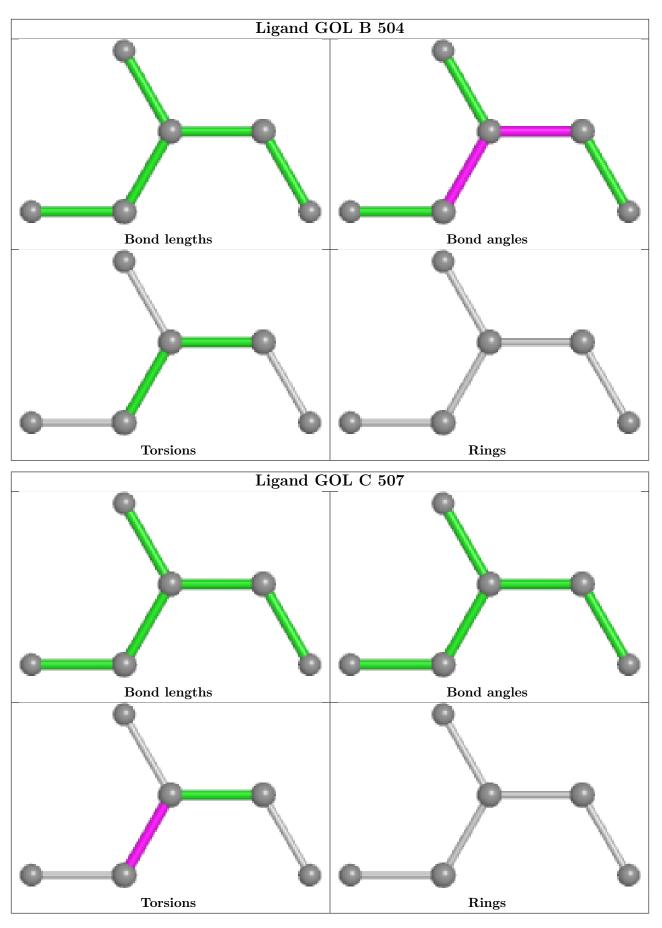














5.7 Other polymers (i)

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, 95^{th} 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	А	318/334~(95%)	-0.08	15 (4%) 31 36	17, 25, 55, 96	0
1	В	329/334~(98%)	0.01	19 (5%) 23 27	18, 28, 66, 110	0
1	С	326/334~(97%)	-0.08	9 (2%) 53 58	15, 26, 51, 90	0
All	All	973/1002~(97%)	-0.05	43 (4%) 34 39	15, 26, 56, 110	0

The worst 5 of 43 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	1	MET	7.9
1	В	205	PHE	6.2
1	А	212	ASP	5.9
1	В	1	MET	5.7
1	В	209	THR	5.5

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 (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, 95^{th} 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.

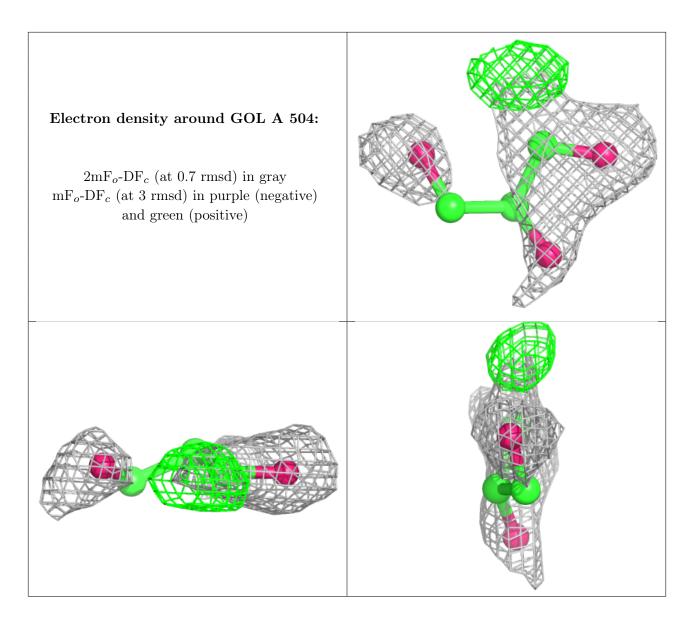


7SZE
1021

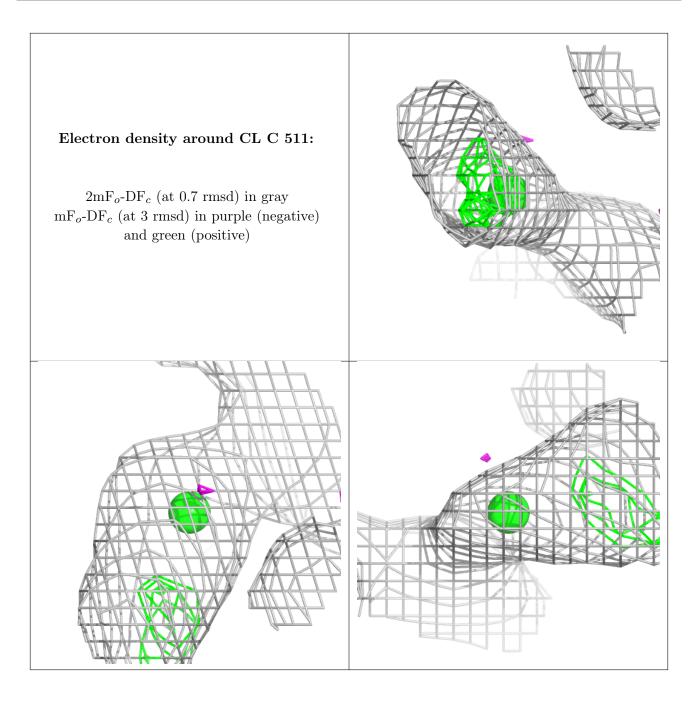
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	GOL	А	504	6/6	0.51	0.24	52,63,65,72	0
6	CL	С	511	1/1	0.66	0.16	70,70,70,70	0
4	GOL	В	506	6/6	0.67	0.30	47,51,59,59	0
4	GOL	А	503	6/6	0.72	0.28	57,63,74,77	0
4	GOL	В	504	6/6	0.74	0.21	30,48,54,57	0
4	GOL	С	505	6/6	0.79	0.18	36,52,60,62	0
4	GOL	А	505	6/6	0.80	0.25	48,55,57,58	0
4	GOL	С	506	6/6	0.81	0.17	46,49,55,55	0
3	9SL	С	502	21/21	0.86	0.13	34,42,49,57	0
4	GOL	С	507	6/6	0.87	0.23	27,47,52,52	0
6	CL	В	509	1/1	0.89	0.08	73,73,73,73	0
3	9SL	А	502	21/21	0.90	0.18	29,37,41,45	0
4	GOL	В	505	6/6	0.90	0.16	51,55,62,65	0
4	GOL	С	504	6/6	0.92	0.18	32,42,56,58	0
6	CL	С	510	1/1	0.92	0.05	39,39,39,39	0
3	9SL	В	502	21/21	0.92	0.09	25,32,36,40	21
4	GOL	С	503	6/6	0.93	0.17	32,54,58,70	0
4	GOL	В	503	6/6	0.93	0.13	28,43,60,62	0
6	CL	А	507	1/1	0.94	0.05	48,48,48,48	0
6	CL	В	508	1/1	0.96	0.06	50,50,50,50	0
6	CL	А	509	1/1	0.97	0.05	40,40,40,40	0
6	CL	А	508	1/1	0.98	0.06	28,28,28,28	0
2	FES	В	501	4/4	0.99	0.07	22,22,22,24	0
6	CL	С	509	1/1	0.99	0.06	26,26,26,26	0
2	FES	С	501	4/4	0.99	0.10	$17,\!17,\!18,\!19$	0
2	FES	А	501	4/4	0.99	0.09	20,20,21,24	0
5	FE	С	508	1/1	1.00	0.11	21,21,21,21	0
5	FE	А	506	1/1	1.00	0.08	20,20,20,20	0
5	\mathbf{FE}	В	507	1/1	1.00	0.09	19,19,19,19	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.

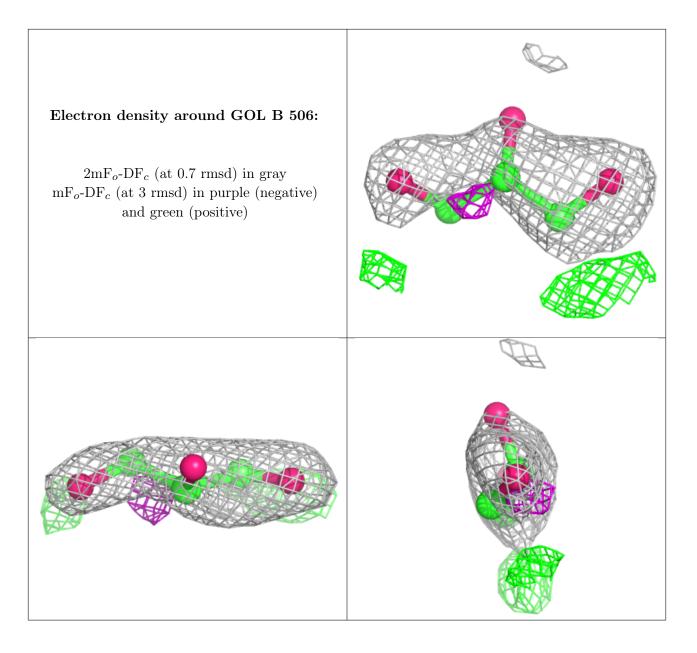




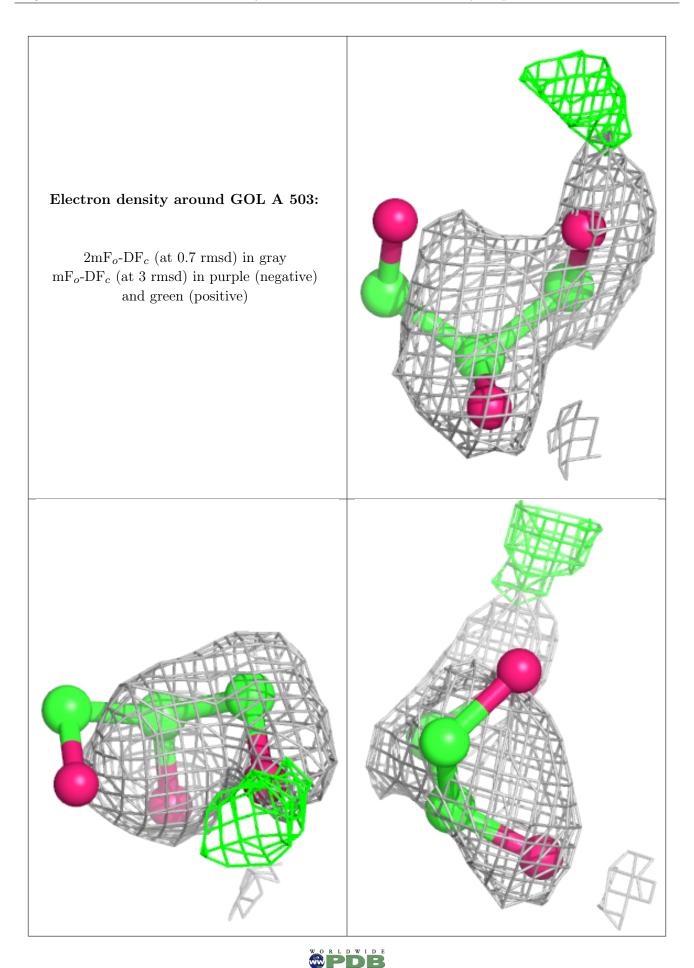


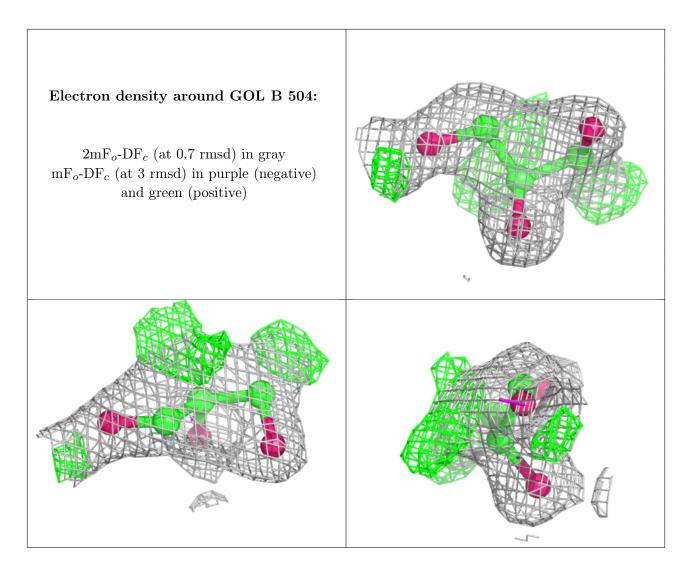




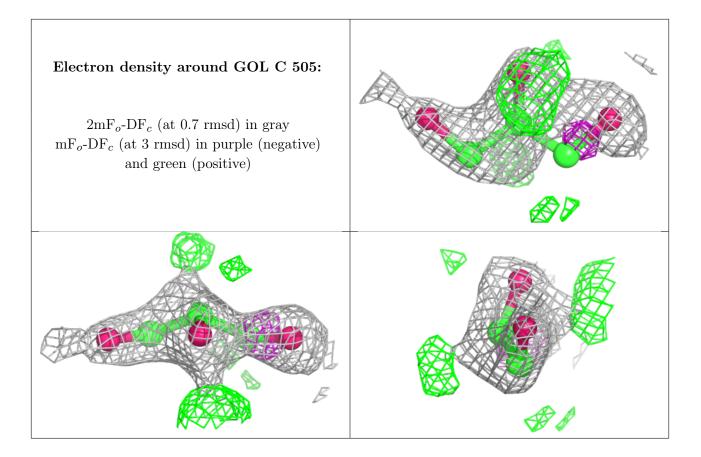




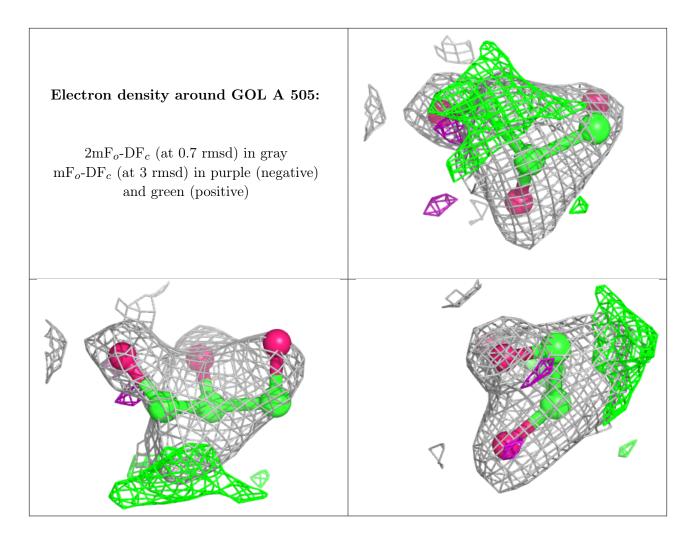




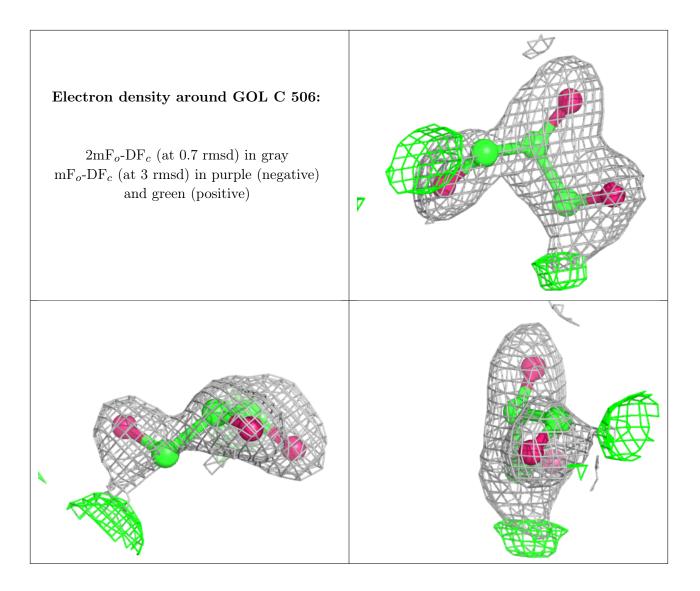




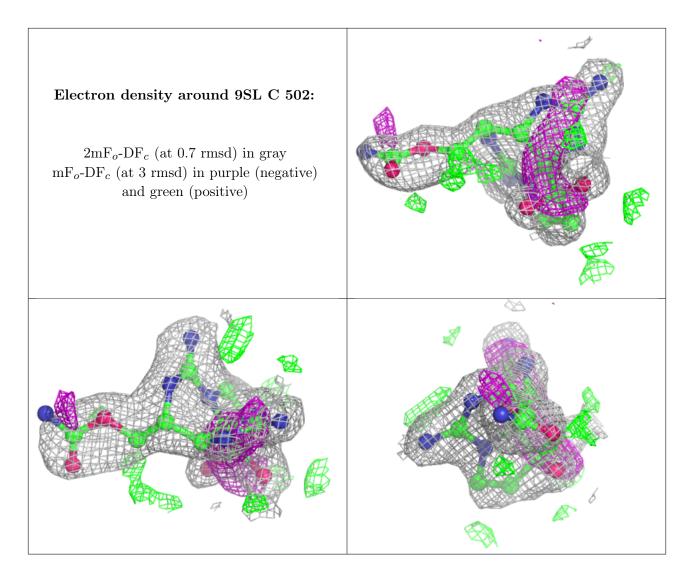




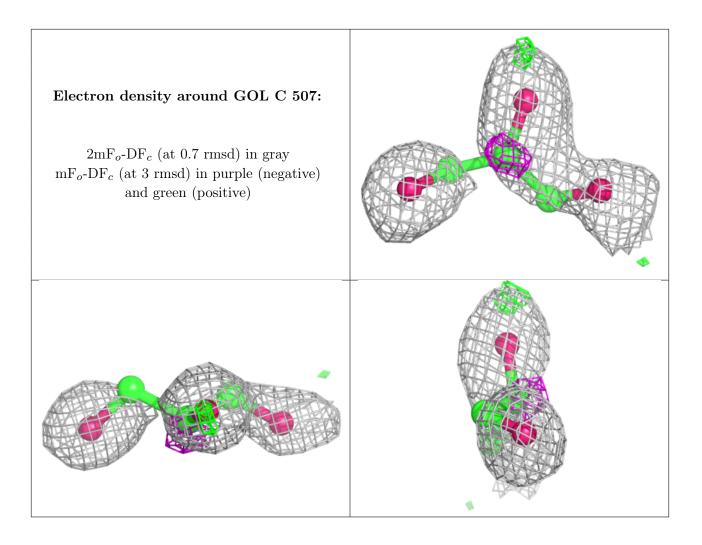




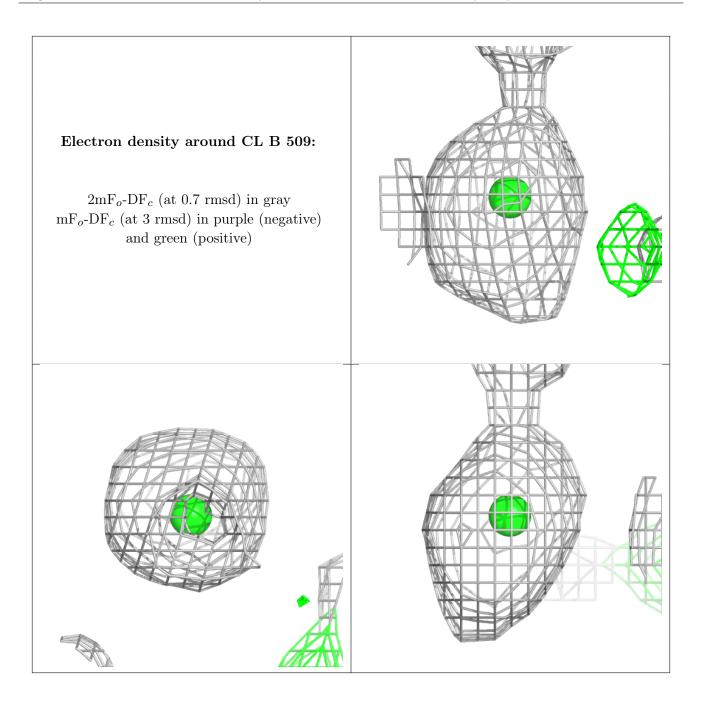




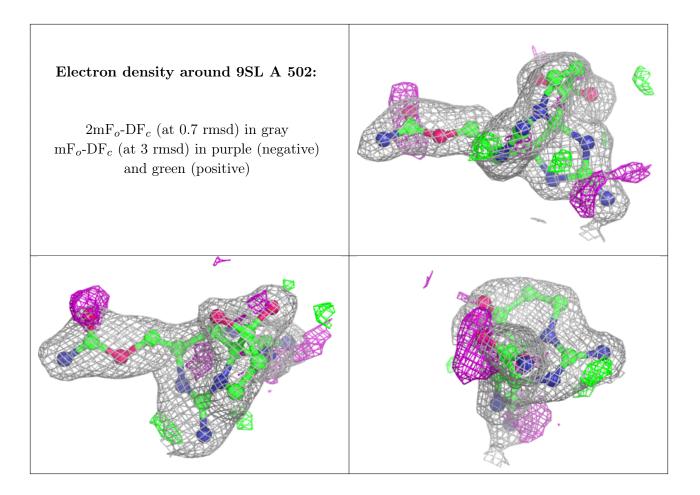




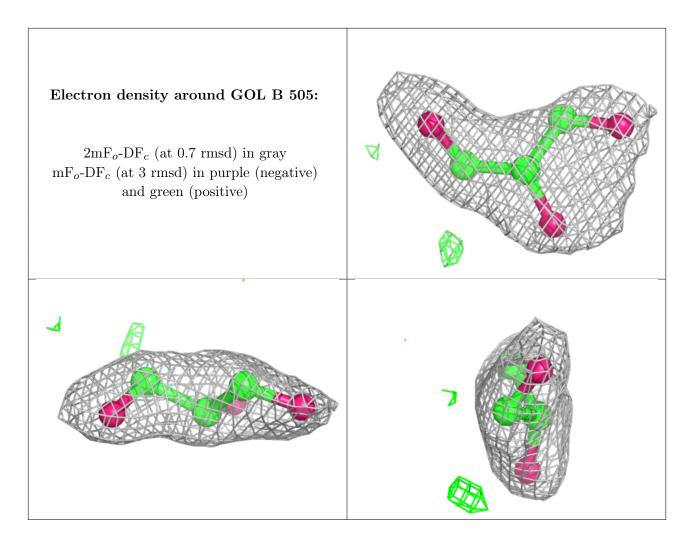




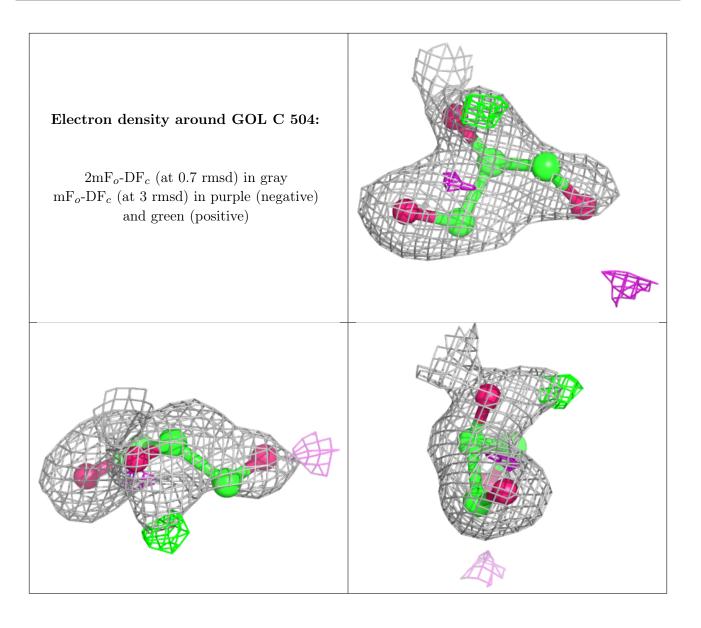




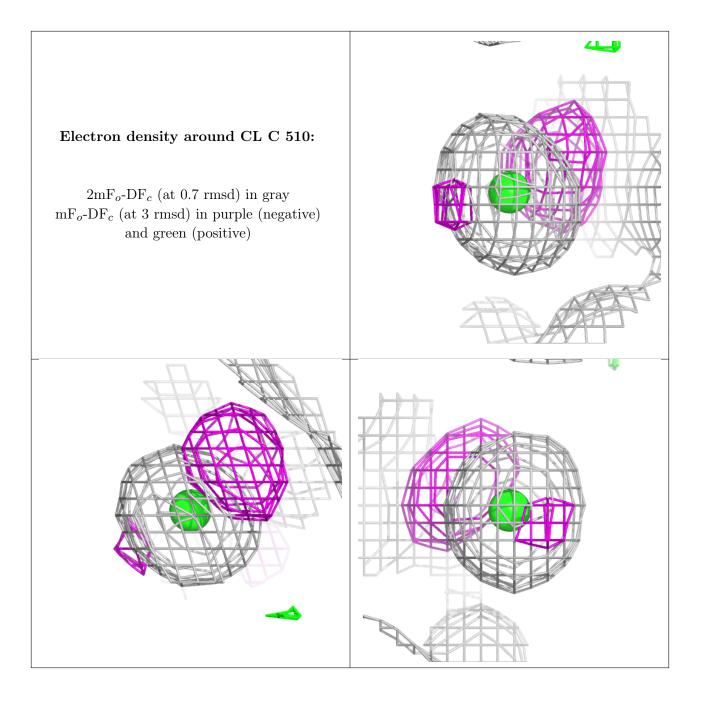




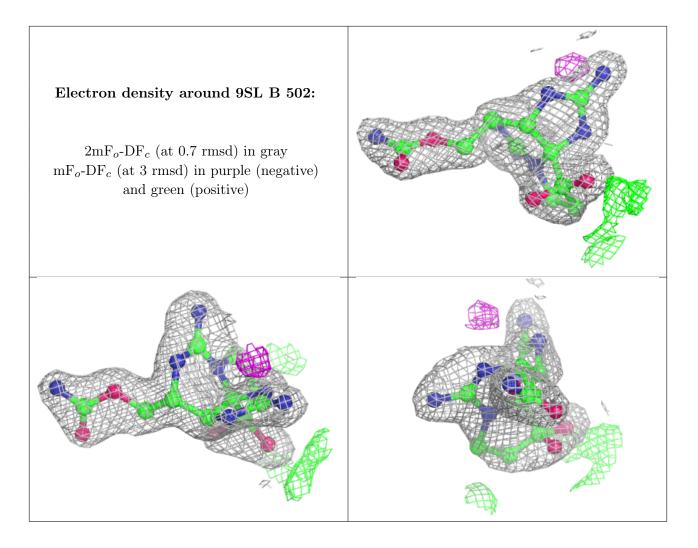




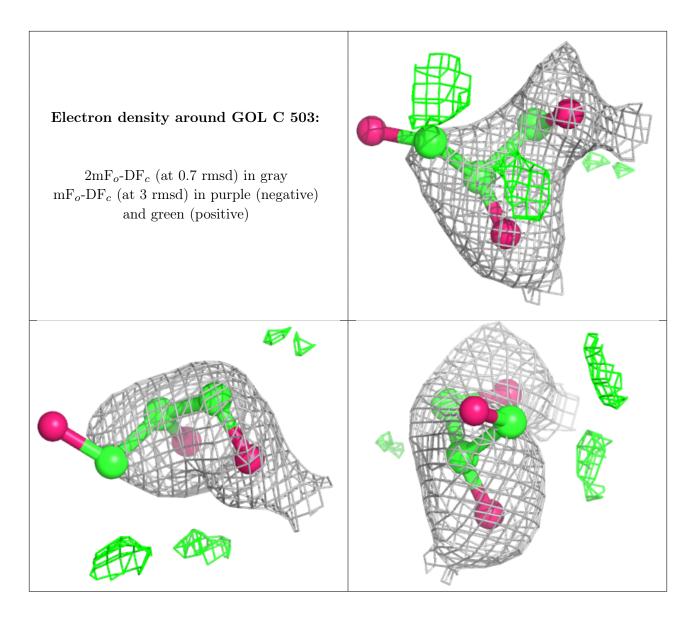




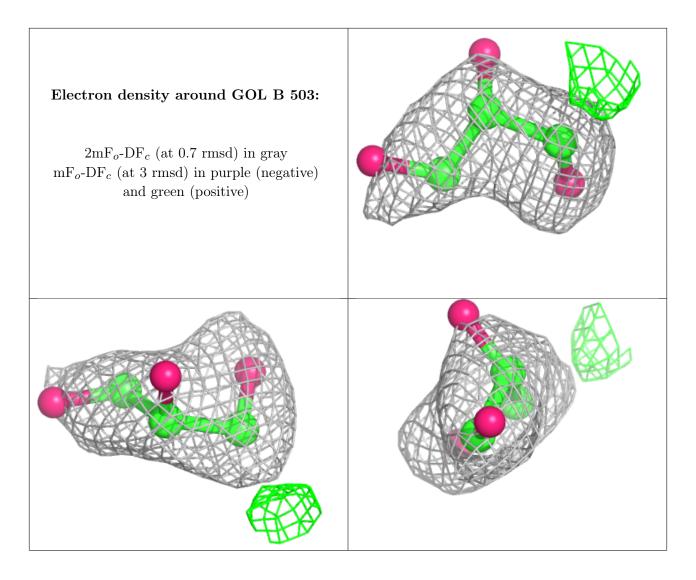




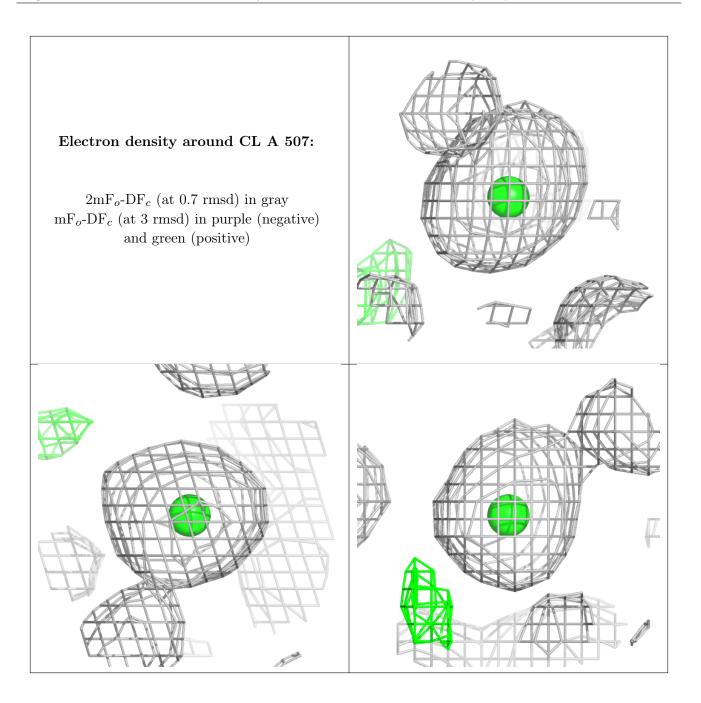




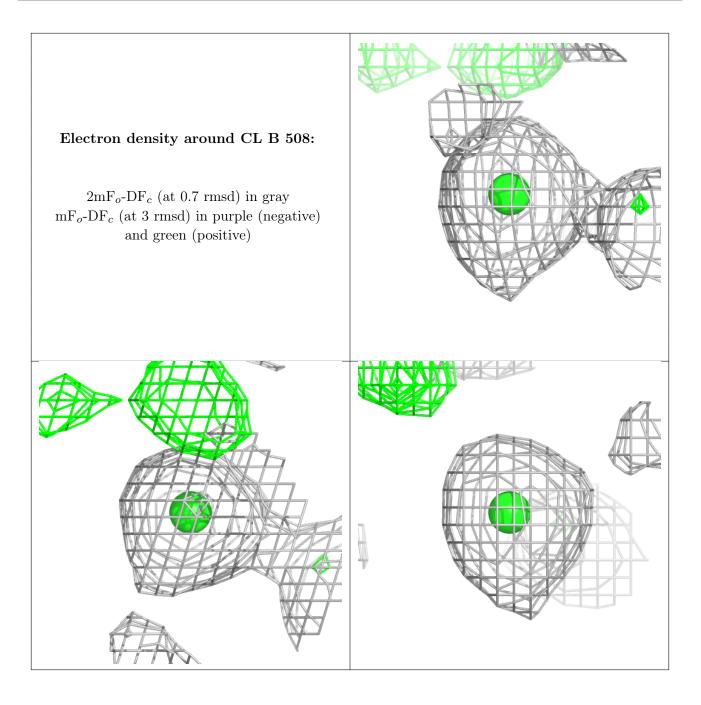




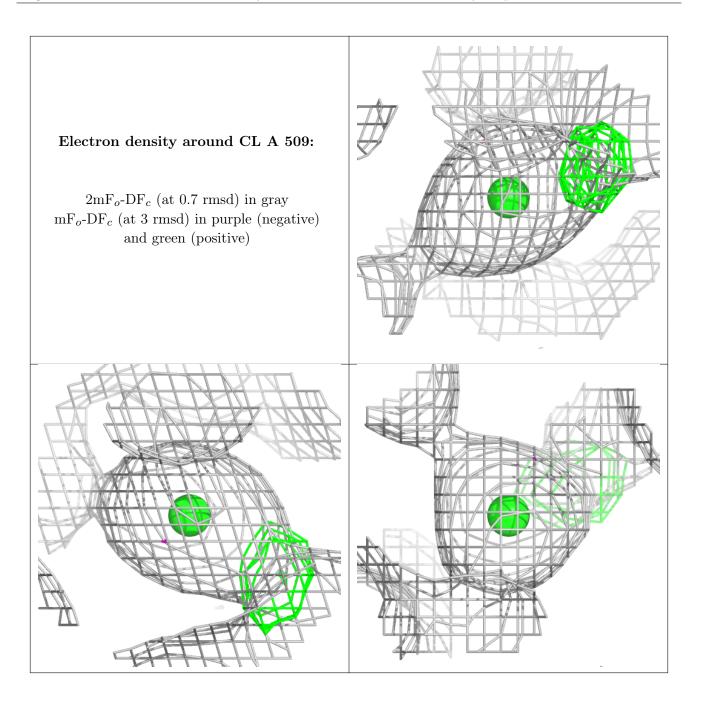




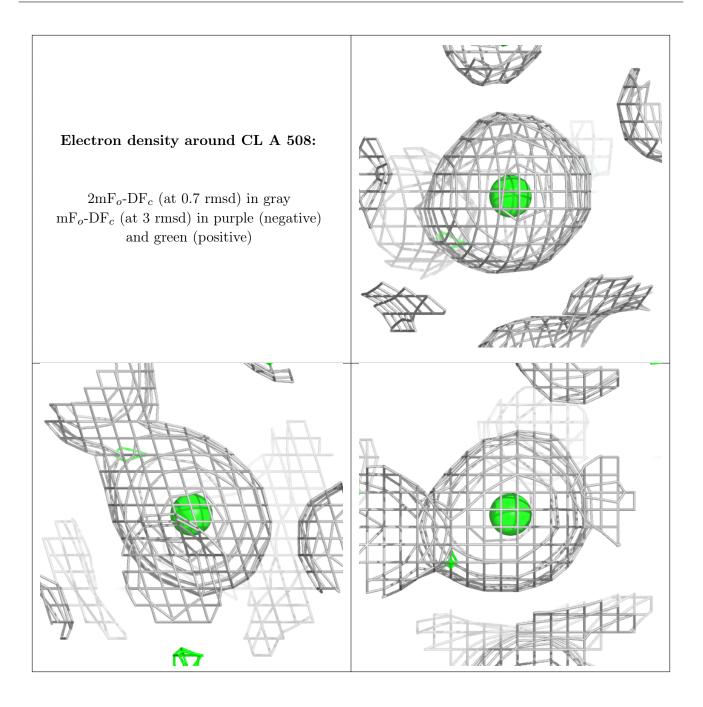




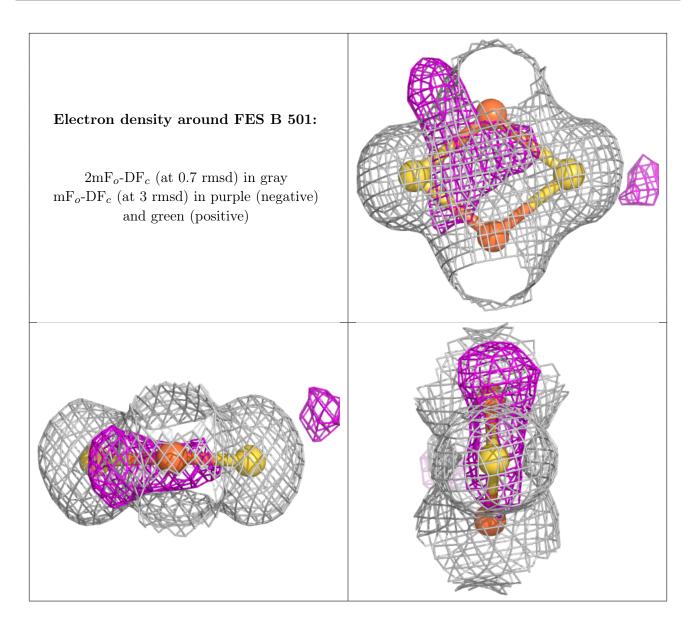




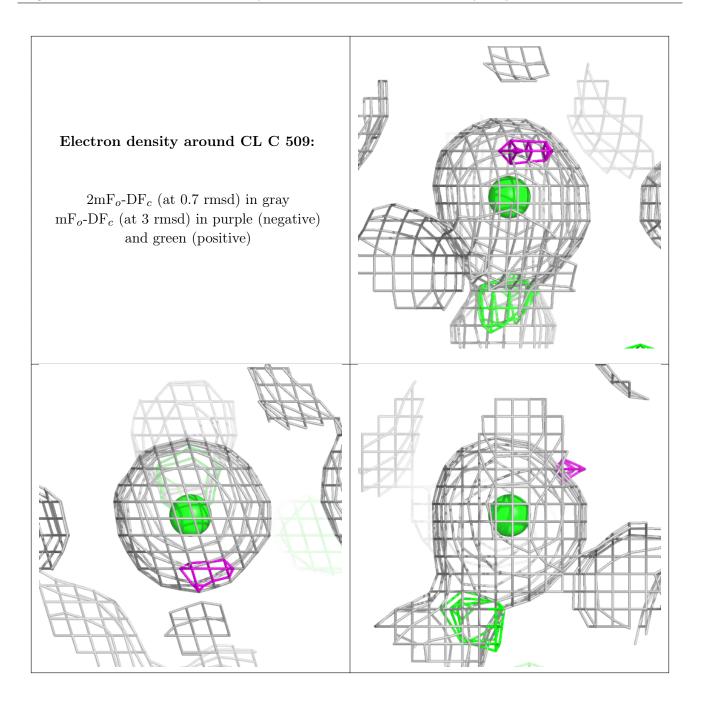




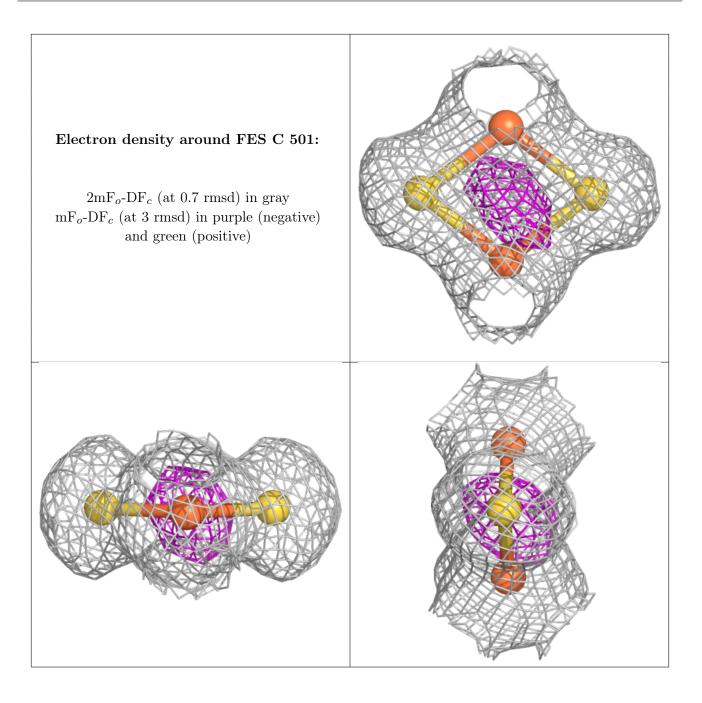




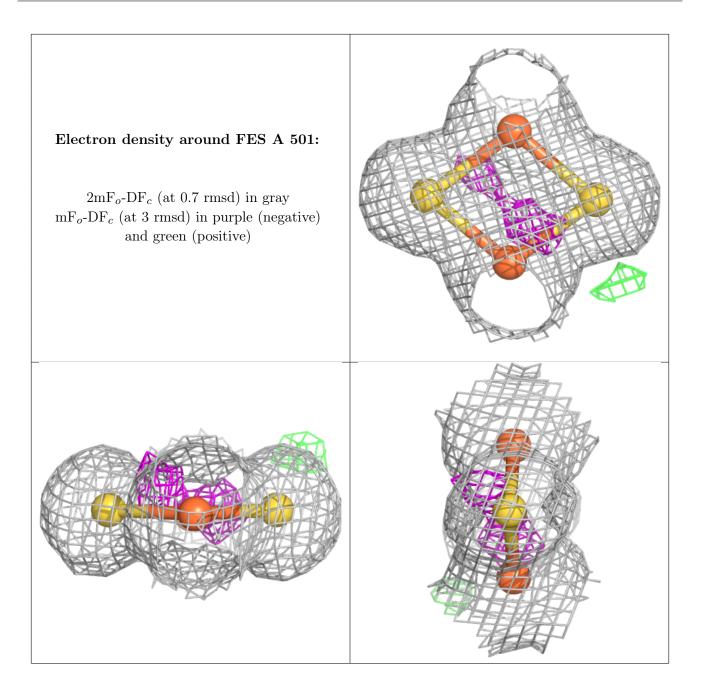




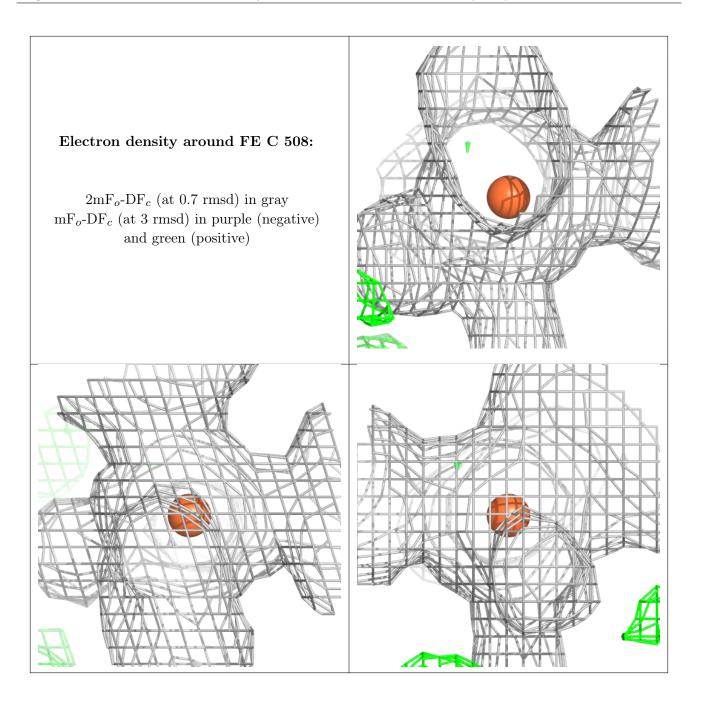




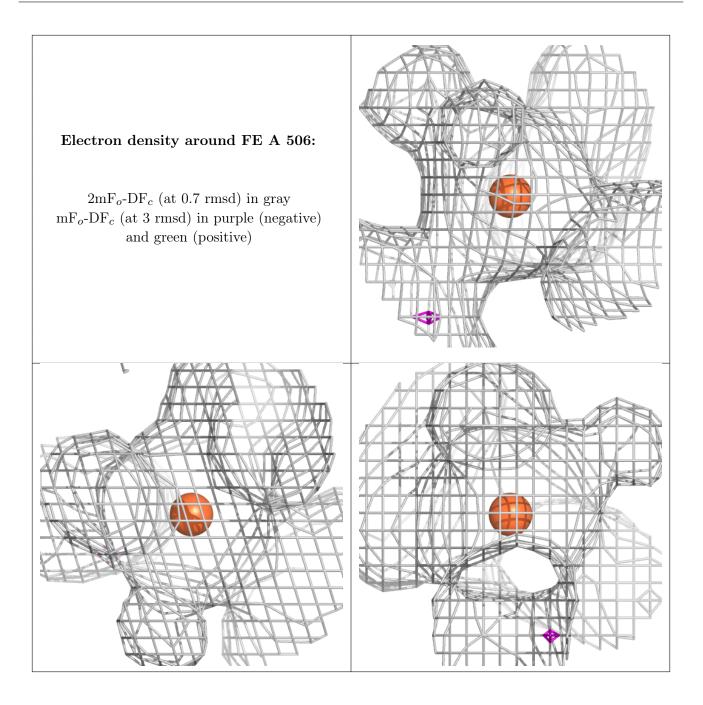




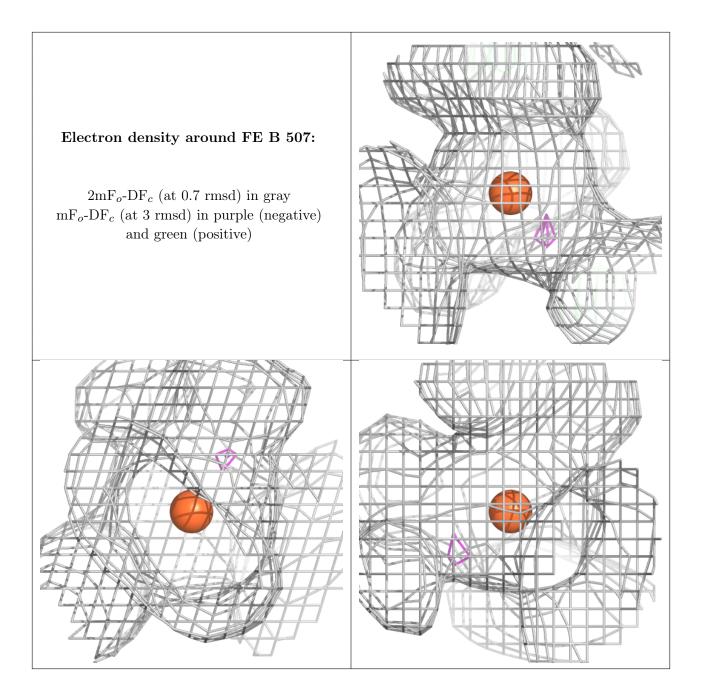












6.5 Other polymers (i)

There are no such residues in this entry.

