

Full wwPDB X-ray Structure Validation Report (i)

Nov 19, 2023 – 06:51 PM JST

PDB ID	:	6M2D
Title	:	MUL1-RING domain
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Deposited on	:	2020-02-27
Resolution	:	1.79 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 (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:

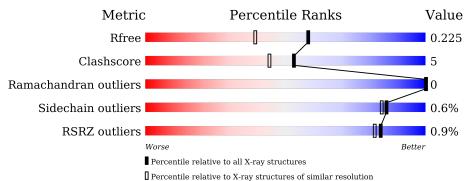
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 1.79 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	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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	57	93%	5% •
1	В	57	88%	12%
1	С	57	81%	19%
1	D	57	2% 88 %	9% •
1	Е	57	82%	18%
1	F	57	4% 79%	18% •



6M2D

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 5499 atoms, of which 2588 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	А	57	Total	С	Η	Ν	Ο	S	0	0	0
	A	57	864	270	434	74	77	9	0	0	0
1	В	57	Total	С	Н	Ν	Ο	S	0	0	0
1	D	51	864	270	434	74	77	9	0	0	0
1	С	57	Total	С	Н	Ν	Ο	S	0	0	0
1	U	57	864	270	434	74	77	9			
1	D	55	Total	С	Н	Ν	Ο	S	0	0	0
1	D		845	265	426	72	73	9	0		
1	Е	57	Total	С	Η	Ν	Ο	\mathbf{S}	0	0	0
1	Ľ	51	863	270	434	74	76	9	0	0	0
1	F	55	Total	С	Н	Ν	Ο	S	0	0	0
	I F	55	845	265	426	72	73	9	0	U	0

• Molecule 1 is a protein called Mitochondrial ubiquitin ligase activator of NFKB 1.

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	296	GLY	-	expression tag	UNP Q969V5
В	296	GLY	-	expression tag	UNP Q969V5
С	296	GLY	-	expression tag	UNP $Q969V5$
D	296	GLY	-	expression tag	UNP Q969V5
Е	296	GLY	-	expression tag	UNP $Q969V5$
F	296	GLY	-	expression tag	UNP Q969V5

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

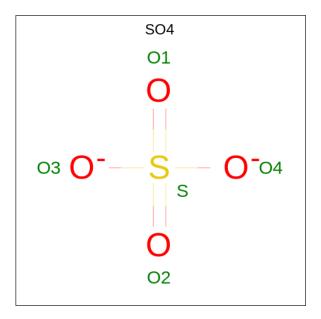
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	2	Total Zn 2 2	0	0
2	В	2	Total Zn 2 2	0	0
2	С	2	Total Zn 2 2	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	2	Total Zn 2 2	0	0
2	Е	2	$\begin{array}{cc} \text{Total} & \text{Zn} \\ 2 & 2 \end{array}$	0	0
2	F	2	Total Zn 2 2	0	0

• Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O₄S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
3	А	1	Total	Ο	\mathbf{S}	Ο	0	
0	11	1	5	4	1	0	0	
3	А	1	Total	Ο	\mathbf{S}	0	0	
	11	I	5	4	1	0	U	
3	В	1	Total	Ο	\mathbf{S}	0	0	
0	D	1	5	4	1	0	0	
3	В	1	Total	Ο	\mathbf{S}	0	0	
0	D	1	5	4	1	0		
3	С	1	Total	Ο	\mathbf{S}	0	0	
0	U	1	5	4	1	0	0	
3	E	1	Total	Ο	\mathbf{S}	0	0	
0	Ľ	1	5	4	1	0	0	

• Molecule 4 is water.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	54	$\begin{array}{ccc} \text{Total} & \text{O} \\ 54 & 54 \end{array}$	0	0
4	В	60	Total O 60 60	0	0
4	С	54	$\begin{array}{ccc} \text{Total} & \text{O} \\ 54 & 54 \end{array}$	0	0
4	D	51	Total O 51 51	0	0
4	Е	46	Total O 46 46	0	0
4	F	47	Total O 47 47	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: Mitochondrial ubiquitin ligase activator of NFKB 1

Chain A:	93%	5% •
G296 R328 R340 N351 S352		
• Molecule 1:	Mitochondrial ubiquitin ligase activator of NFKB 1	
Chain B:	88%	12%
0296 3300 V313 P331 K335 K335 C335	R337 R340 R352 R355	
• Molecule 1:	Mitochondrial ubiquitin ligase activator of NFKB 1	
Chain C:	81%	19%
G296 A301 K310 L315 E316 F315 Y327	E332 1344 1345 1347 8350 8350	
• Molecule 1:	Mitochondrial ubiquitin ligase activator of NFKB 1	
Chain D:	88%	9% •
GLY SER L298 V313 F314 L315 P331	R340 R345 S352	
• Molecule 1:	Mitochondrial ubiquitin ligase activator of NFKB 1	
Chain E:	82%	18%
(2296 (2297 (2299 (2299) (2299) (2299) (2300) (2305) (2305) (2305) (2305)	K310 E316 C256 X350 N351 X352	
• Molecule 1:	Mitochondrial ubiquitin ligase activator of NFKB 1	
Chain F:	79% 1	8% •
	PROTEIN DATA BANK	





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	59.23Å 66.59 Å 68.27 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.67 - 1.79	Depositor
Resolution (A)	47.67 - 1.80	EDS
% Data completeness	98.6 (47.67-1.79)	Depositor
(in resolution range)	$98.6 \ (47.67 - 1.80)$	EDS
R _{merge}	0.08	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.63 (at 1.79 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.172 , 0.227	Depositor
$\mathbf{n}, \mathbf{n}_{free}$	0.173 , 0.225	DCC
R_{free} test set	1287 reflections $(5.05%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	19.7	Xtriage
Anisotropy	0.225	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.42 , 49.2	EDS
L-test for twinning ²	$< L >=0.45, < L^2>=0.27$	Xtriage
Estimated twinning fraction	0.029 for -h,l,k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5499	wwPDB-VP
Average B, all atoms $(Å^2)$	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.17% 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: ZN, 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	Bo	nd angles
	Ullalli	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.34	0/438	0.54	0/590
1	В	0.39	0/438	0.63	1/590~(0.2%)
1	С	0.42	0/438	0.61	0/590
1	D	0.34	0/427	0.57	0/577
1	Ε	0.35	0/437	0.54	0/590
1	F	0.40	0/427	0.56	0/577
All	All	0.37	0/2605	0.58	1/3514~(0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	В	340	ARG	NE-CZ-NH1	-5.08	117.76	120.30

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	430	434	434	3	0
1	В	430	434	434	6	1
1	С	430	434	434	10	0
1	D	419	426	426	4	0



Continuea from previous page								
Mol	Chain	Non-H	${ m H}({ m model})$	H(added)	Clashes	Symm-Clashes		
1	Е	429	434	434	5	1		
1	F	419	426	426	7	0		
2	А	2	0	0	0	0		
2	В	2	0	0	0	0		
2	С	2	0	0	0	0		
2	D	2	0	0	0	0		
2	Е	2	0	0	0	0		
2	F	2	0	0	0	0		
3	А	10	0	0	0	0		
3	В	10	0	0	0	0		
3	С	5	0	0	0	0		
3	Е	5	0	0	0	0		
4	А	54	0	0	2	0		
4	В	60	0	0	0	0		
4	С	54	0	0	2	0		
4	D	51	0	0	1	0		
4	Е	46	0	0	1	0		
4	F	47	0	0	0	0		
All	All	2911	2588	2588	28	1		

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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 5.

All (28) 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:351:ASN:ND2	1:A:352:SER:OXT	2.19	0.75
1:A:328:ARG:NH1	4:A:501:HOH:O	2.21	0.73
1:C:296:GLY:N	4:C:502:HOH:O	2.22	0.71
1:E:316:GLU:HG2	4:E:508:HOH:O	1.99	0.63
1:A:340:ARG:HB2	1:B:335:LYS:HE2	1.84	0.59
1:F:298:LEU:HD23	1:F:300:SER:H	1.68	0.58
1:C:316:GLU:O	1:F:345:ARG:NH1	2.32	0.57
1:C:315:LEU:HB2	1:C:345:ARG:HB2	1.86	0.56
1:B:331:PRO:HD3	1:C:344:THR:HG21	1.90	0.54
1:F:305:CYS:HB3	1:F:326:CYS:SG	2.47	0.53
1:C:316:GLU:OE2	1:C:345:ARG:HD3	2.08	0.53
1:D:315:LEU:HD13	1:D:345:ARG:CZ	2.40	0.51
1:C:332:GLU:OE2	4:C:501:HOH:O	2.19	0.50
1:B:313:VAL:HG12	1:B:347:ILE:HB	1.94	0.49
1:E:301:ALA:O	1:E:310:LYS:HE3	2.13	0.48



Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:F:327:TYR:CZ	1:F:346:VAL:HG21	2.49	0.47
1:E:296:GLY:O	1:E:299:LYS:HG2	2.15	0.47
1:F:313:VAL:HG22	1:F:320:VAL:HG22	1.97	0.46
4:A:542:HOH:O	1:B:335:LYS:HE3	2.15	0.46
1:F:300:SER:HB3	1:F:309:PHE:HD2	1.83	0.43
1:C:347:ILE:HD11	1:F:313:VAL:HG11	2.00	0.43
1:B:313:VAL:HG21	1:D:313:VAL:HG11	2.00	0.43
1:B:337:PRO:HB3	1:C:345:ARG:HG2	2.01	0.42
1:E:305:CYS:HB3	1:E:326:CYS:SG	2.59	0.42
1:C:301:ALA:O	1:C:310:LYS:HE3	2.20	0.42
1:C:327:TYR:CZ	1:C:346:VAL:HG21	2.55	0.41
1:D:346:VAL:HG11	1:E:306:LEU:HD11	2.02	0.41
1:D:331:PRO:HB2	4:D:512:HOH:O	2.21	0.40

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All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:300:SER:O	1:E:350:TYR:HH[3_655]	1.57	0.03

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	55/57~(96%)	54 (98%)	1 (2%)	0	100 100
1	В	55/57~(96%)	53~(96%)	2(4%)	0	100 100
1	С	55/57~(96%)	50 (91%)	5 (9%)	0	100 100
1	D	53/57~(93%)	51 (96%)	2(4%)	0	100 100
1	Е	55/57~(96%)	52 (94%)	3~(6%)	0	100 100
1	F	53/57~(93%)	50 (94%)	3 (6%)	0	100 100



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	326/342~(95%)	310~(95%)	16~(5%)	0	100 100	

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	А	52/52~(100%)	51~(98%)	1 (2%)	57 46
1	В	52/52~(100%)	52 (100%)	0	100 100
1	С	52/52~(100%)	52~(100%)	0	100 100
1	D	51/52~(98%)	51 (100%)	0	100 100
1	Ε	52/52~(100%)	51 (98%)	1 (2%)	57 46
1	F	51/52~(98%)	51 (100%)	0	100 100
All	All	310/312~(99%)	308~(99%)	2(1%)	86 84

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

Mol	Chain	Res	Type
1	А	351	ASN
1	Е	297	SER

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 18 ligands modelled in this entry, 12 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	Turne	Chain	Res	Link	B	ond leng	gths	B	ond ang	gles
	Type	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
3	SO4	В	404	-	4,4,4	0.16	0	$6,\!6,\!6$	0.18	0
3	SO4	А	403	-	4,4,4	0.15	0	$6,\!6,\!6$	0.13	0
3	SO4	С	403	-	4,4,4	0.19	0	$6,\!6,\!6$	0.20	0
3	SO4	В	403	-	4,4,4	0.10	0	$6,\!6,\!6$	0.31	0
3	SO4	Е	403	-	4,4,4	0.17	0	$6,\!6,\!6$	0.17	0
3	SO4	А	404	-	4,4,4	0.15	0	$6,\!6,\!6$	0.14	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

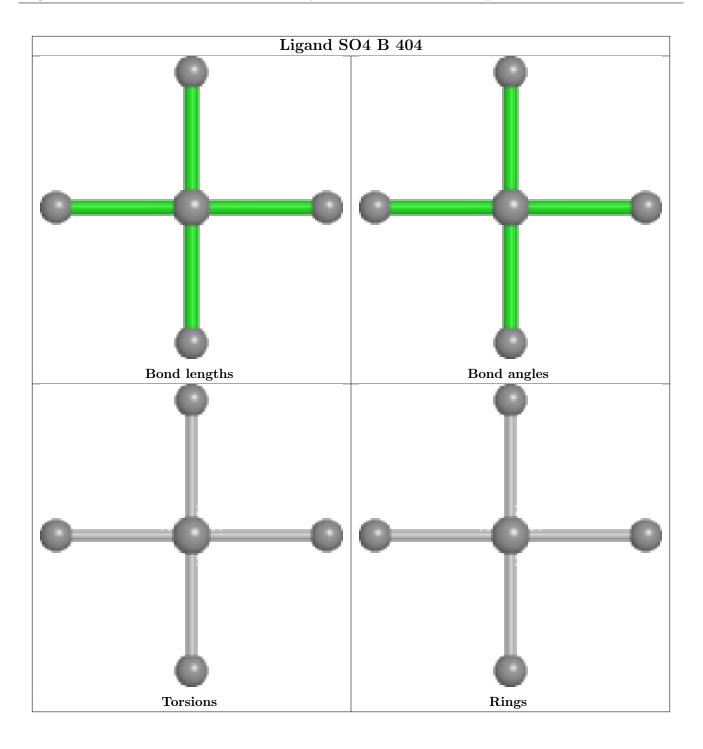
There are no torsion outliers.

There are no ring outliers.

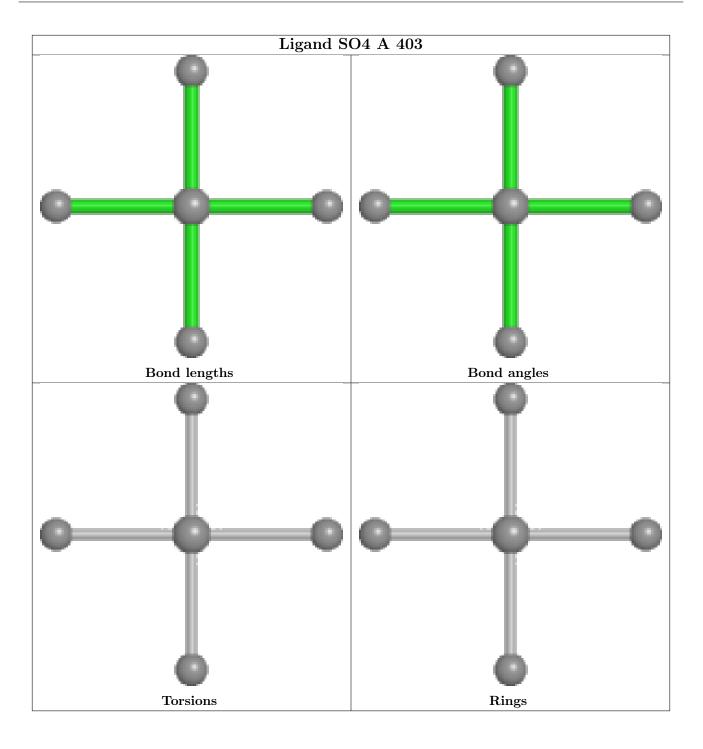
No monomer is involved in short contacts.

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 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.

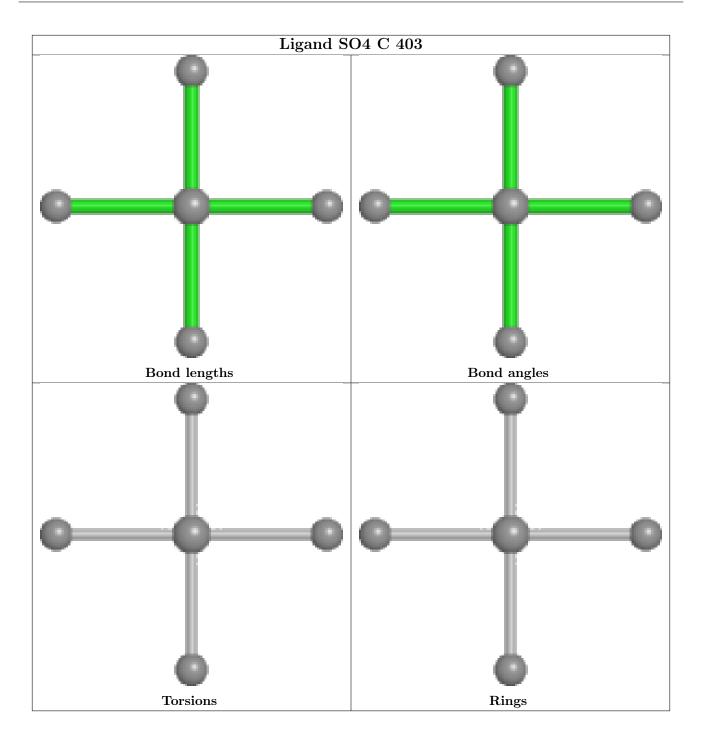




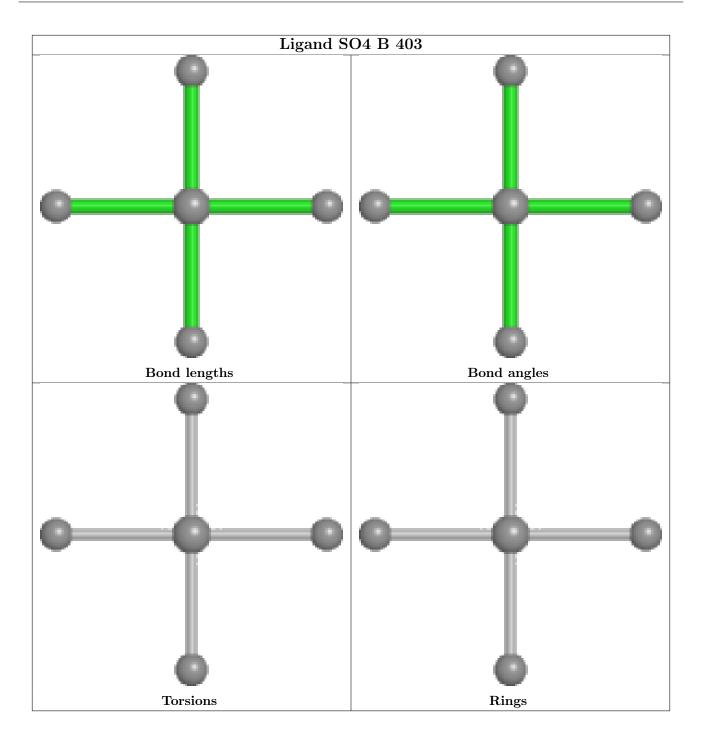




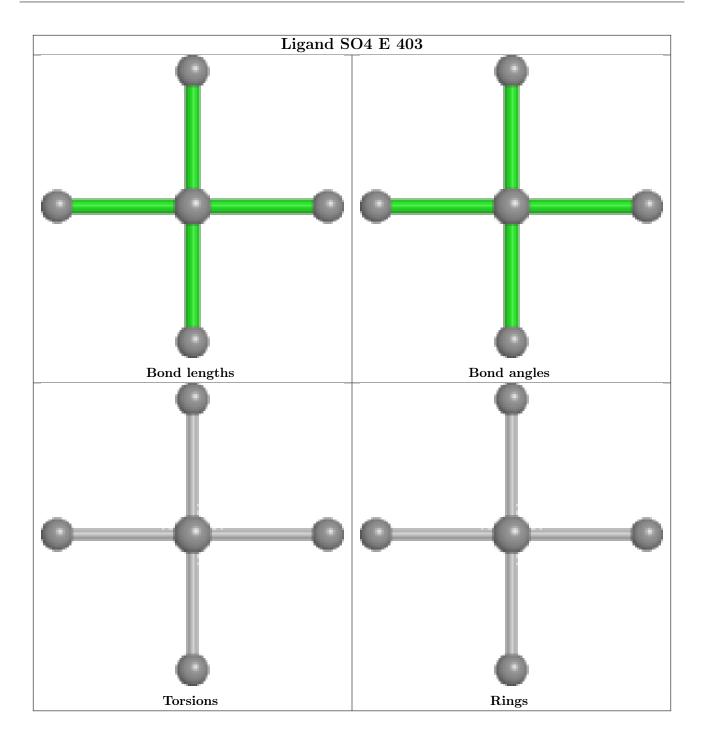




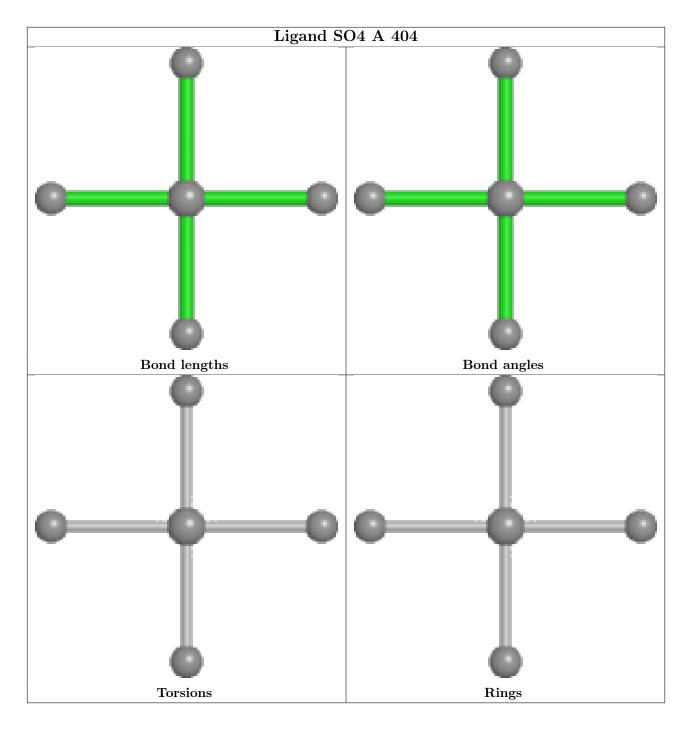












5.7 Other polymers (i)

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	$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	А	57/57~(100%)	-0.15	0 100 100	16, 21, 33, 37	0
1	В	57/57~(100%)	-0.16	0 100 100	15, 19, 29, 36	0
1	С	57/57~(100%)	-0.02	0 100 100	16, 21, 34, 38	0
1	D	55/57~(96%)	-0.05	1 (1%) 68 64	16, 21, 34, 37	0
1	Ε	57/57~(100%)	-0.03	0 100 100	16, 22, 35, 43	0
1	F	55/57~(96%)	0.04	2 (3%) 42 37	15, 21, 32, 41	0
All	All	338/342~(98%)	-0.06	3 (0%) 84 82	15, 21, 34, 43	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	352	SER	2.4
1	D	340	ARG	2.3
1	F	298	LEU	2.3

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,

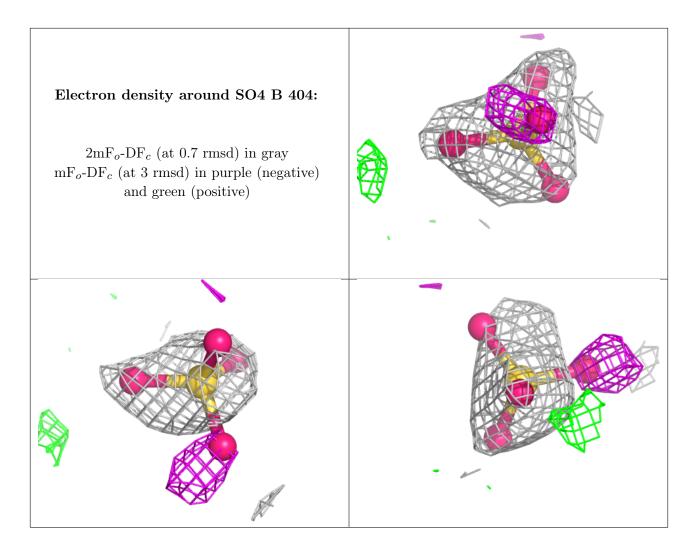


Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	SO4	В	404	5/5	0.79	0.32	$55,\!57,\!68,\!78$	0
3	SO4	Е	403	5/5	0.88	0.31	48,55,62,70	0
3	SO4	А	403	5/5	0.96	0.14	42,43,52,53	0
3	SO4	С	403	5/5	0.96	0.14	32,36,43,47	0
3	SO4	А	404	5/5	0.96	0.22	42,47,60,60	0
3	SO4	В	403	5/5	0.98	0.09	20,22,24,24	0
2	ZN	F	401	1/1	0.99	0.03	31,31,31,31	0
2	ZN	F	402	1/1	0.99	0.03	29,29,29,29	0
2	ZN	А	402	1/1	0.99	0.04	28,28,28,28	0
2	ZN	С	402	1/1	0.99	0.02	31,31,31,31	0
2	ZN	В	401	1/1	1.00	0.03	26,26,26,26	0
2	ZN	В	402	1/1	1.00	0.02	27,27,27,27	0
2	ZN	С	401	1/1	1.00	0.02	27,27,27,27	0
2	ZN	А	401	1/1	1.00	0.01	$25,\!25,\!25,\!25$	0
2	ZN	D	401	1/1	1.00	0.02	28,28,28,28	0
2	ZN	D	402	1/1	1.00	0.02	27,27,27,27	0
2	ZN	Е	401	1/1	1.00	0.03	29,29,29,29	0
2	ZN	Е	402	1/1	1.00	0.03	33,33,33,33	0

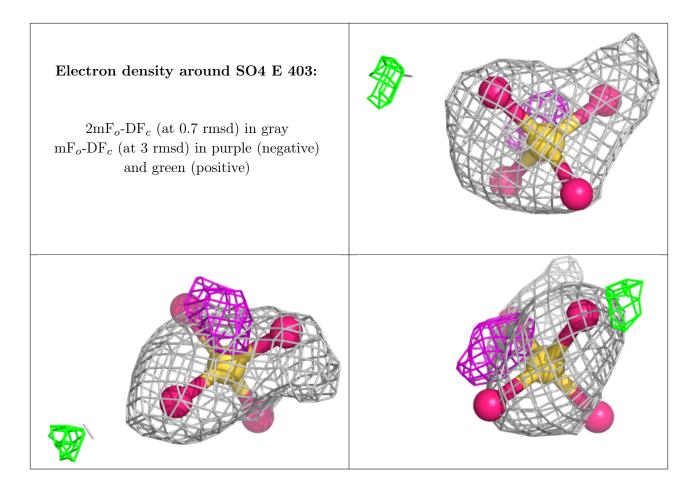
median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

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.

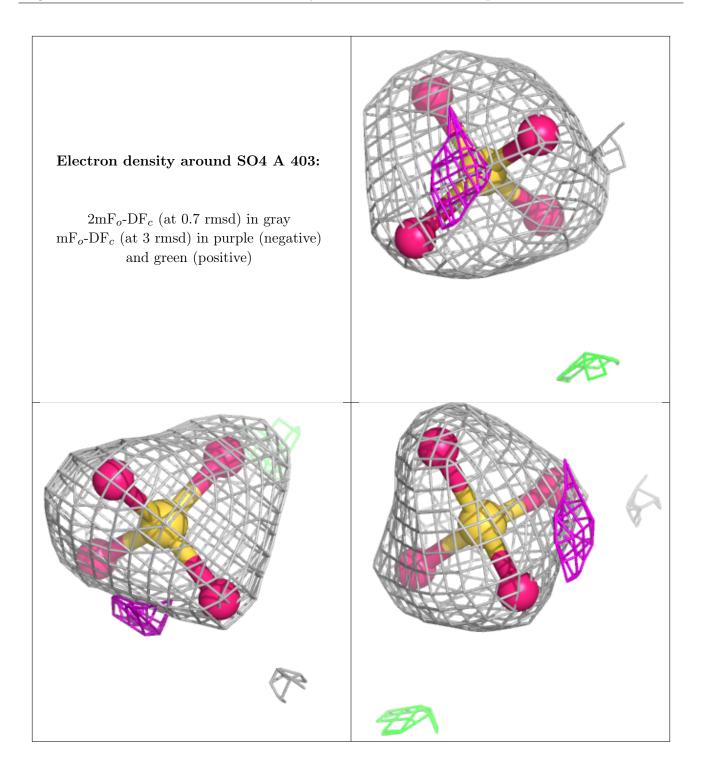




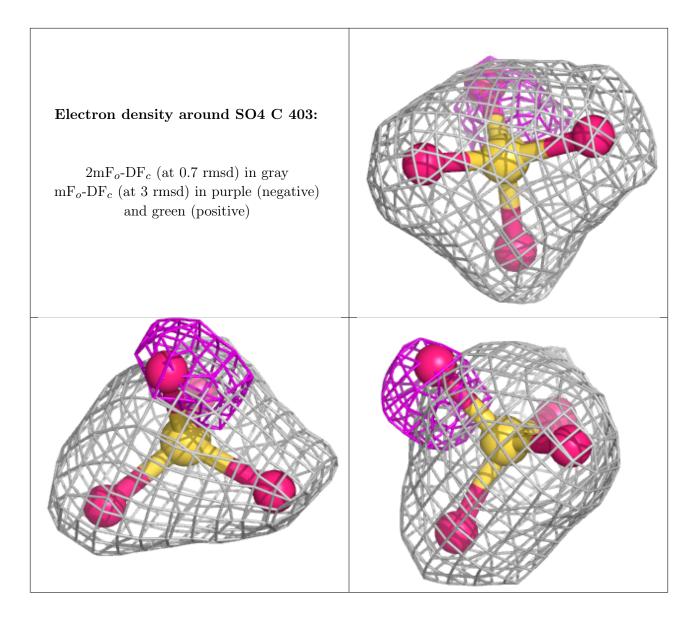




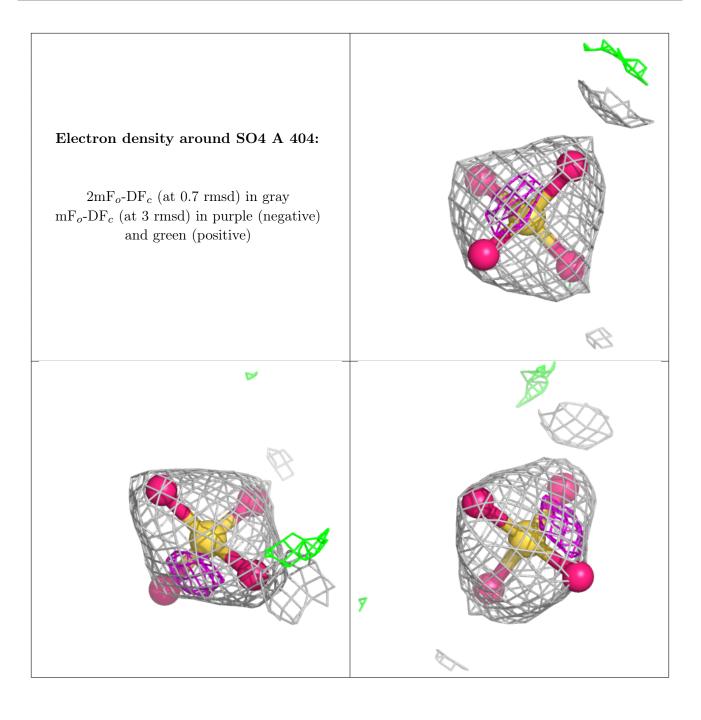




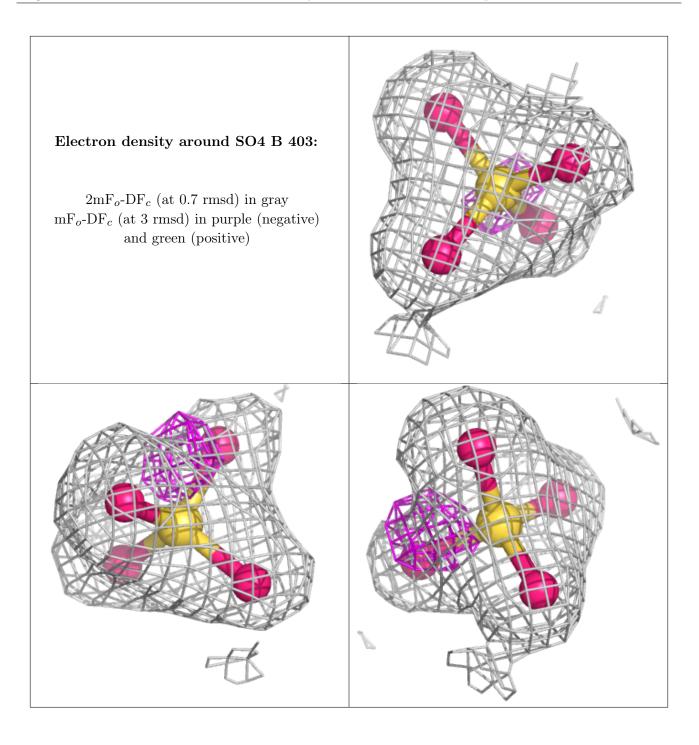




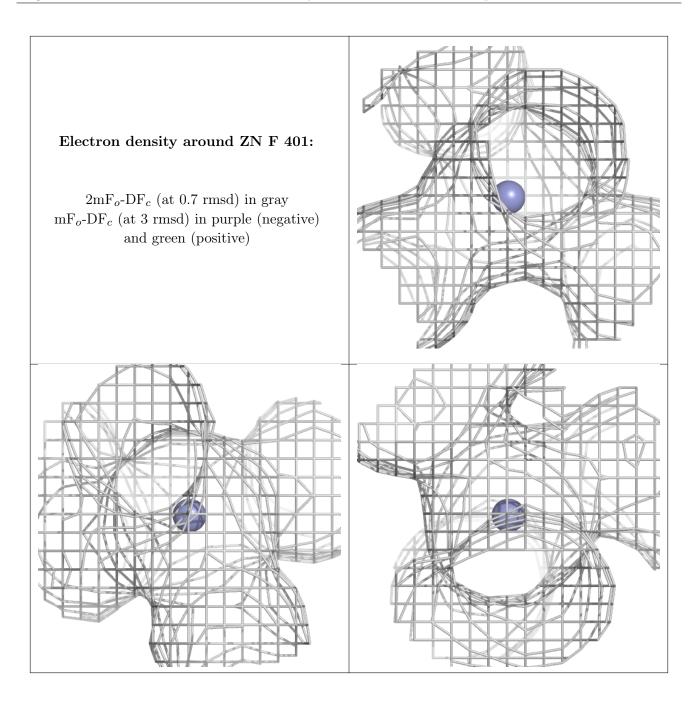




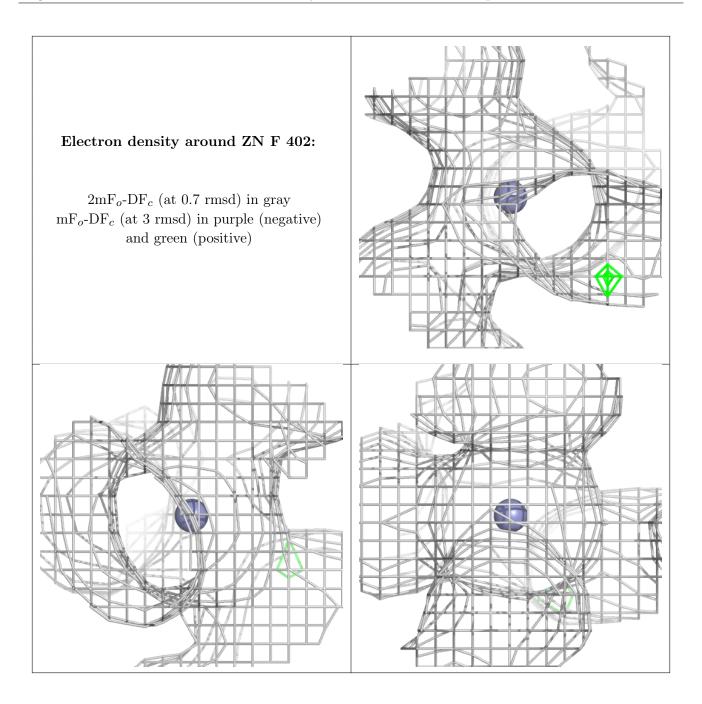




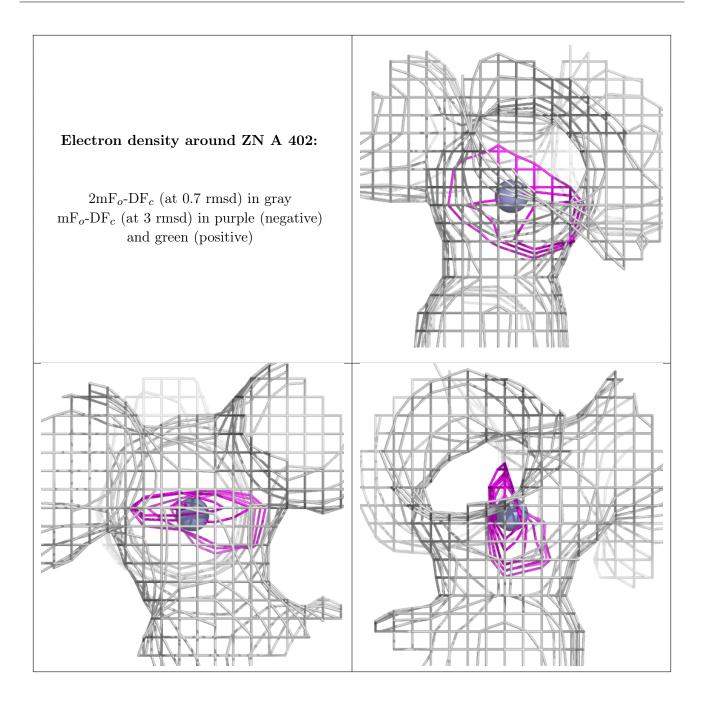




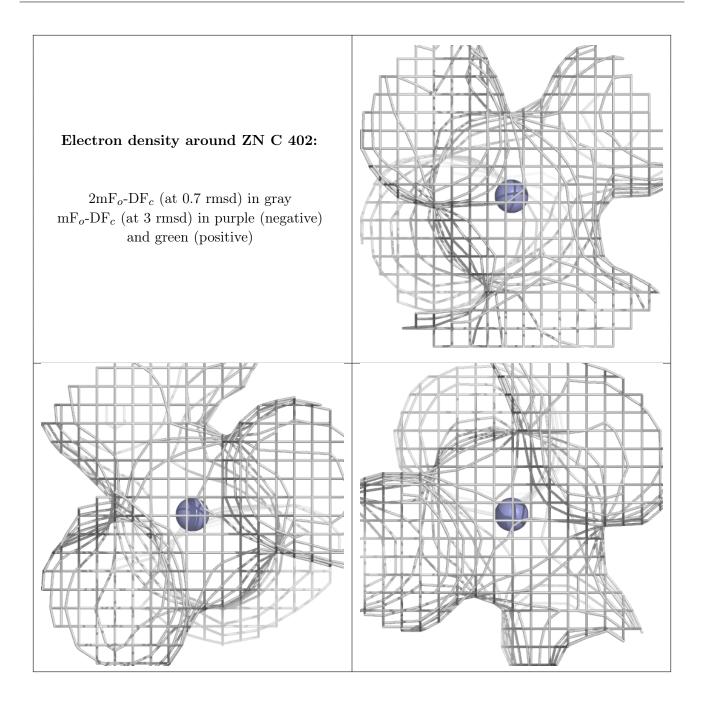




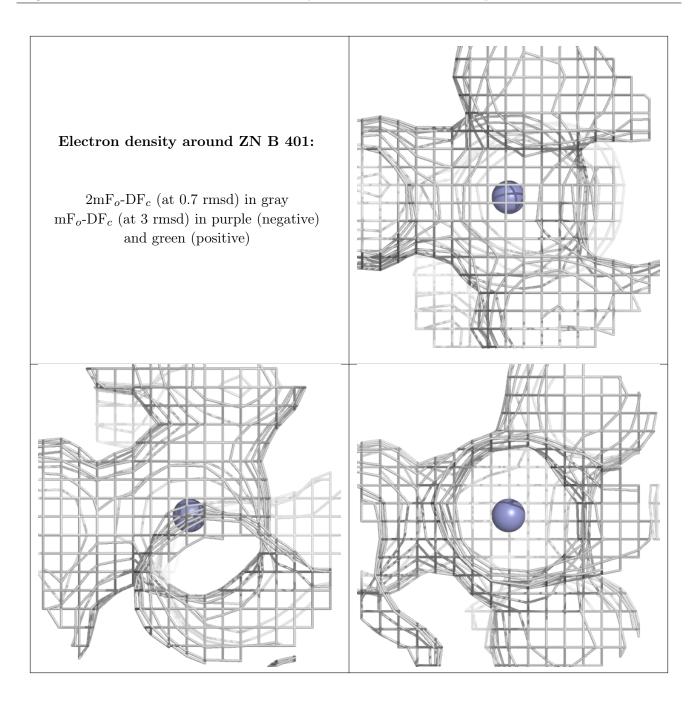




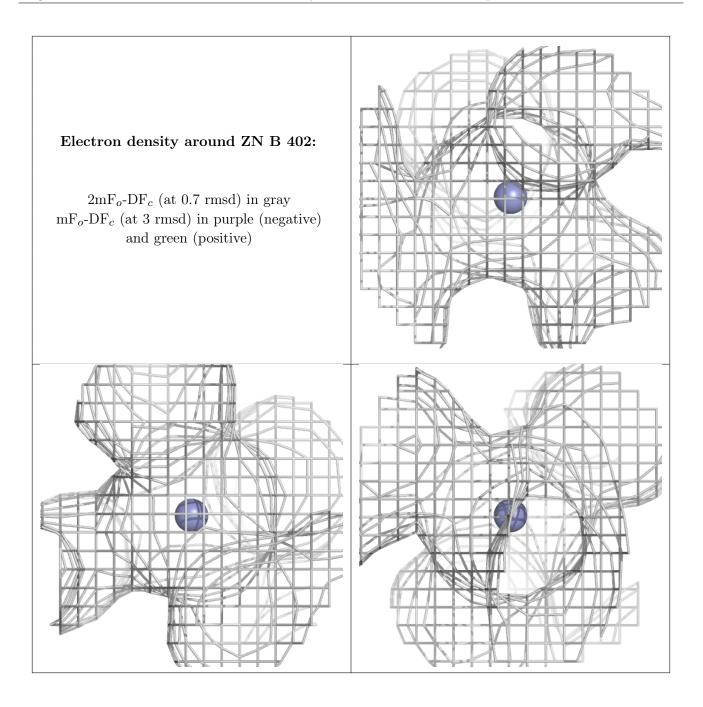




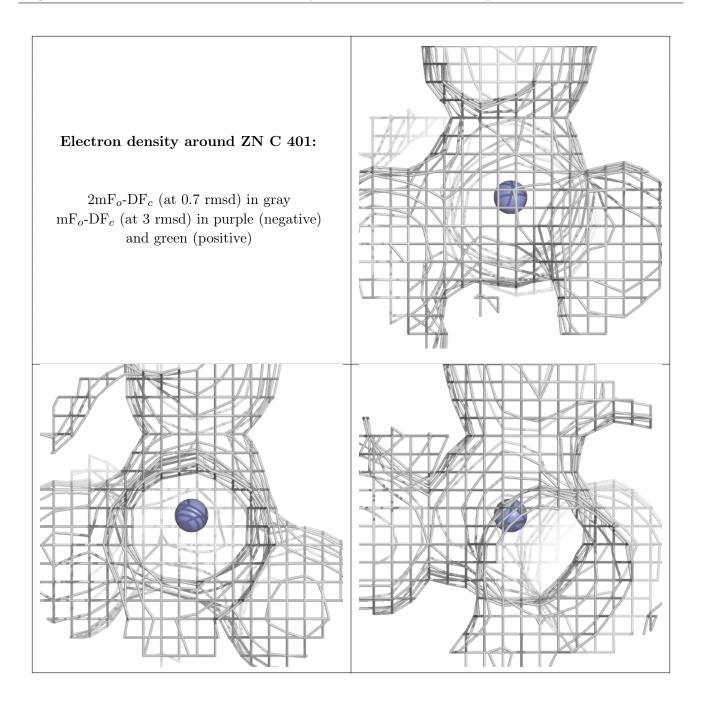




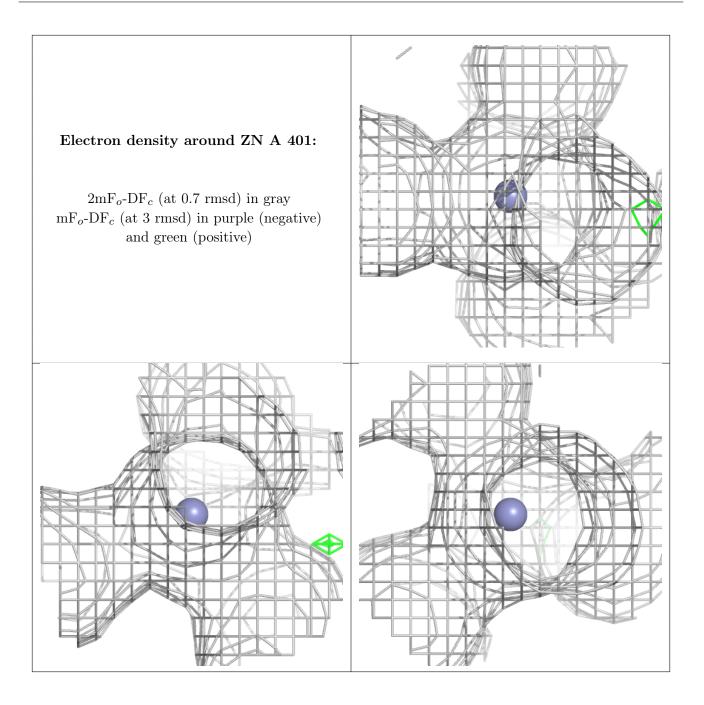




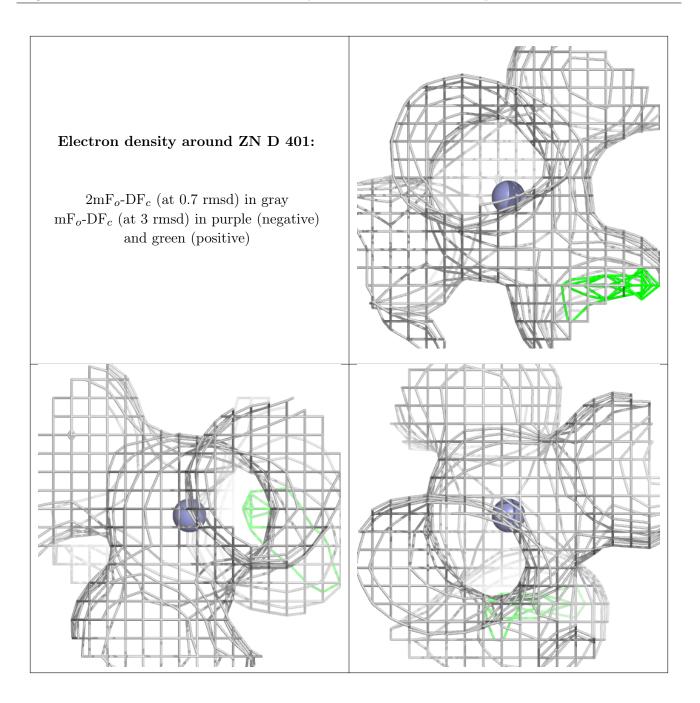




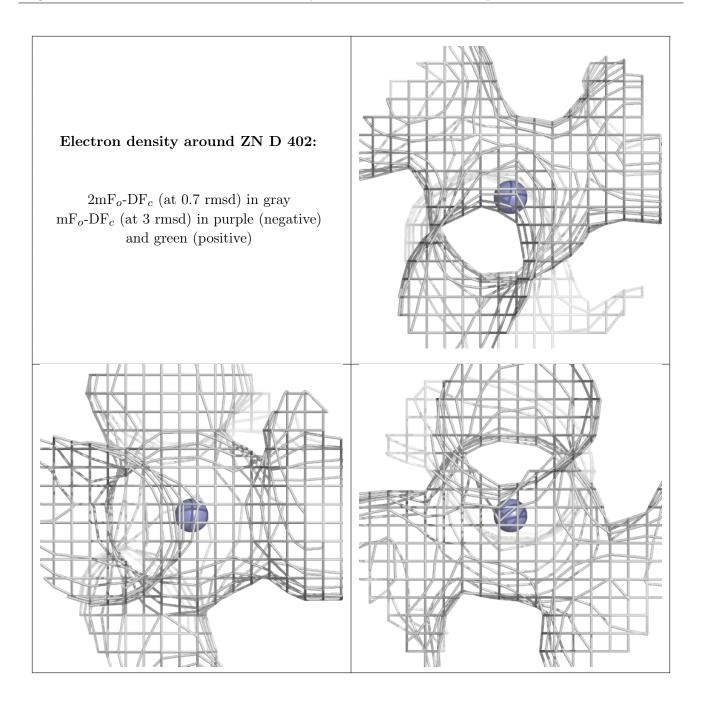




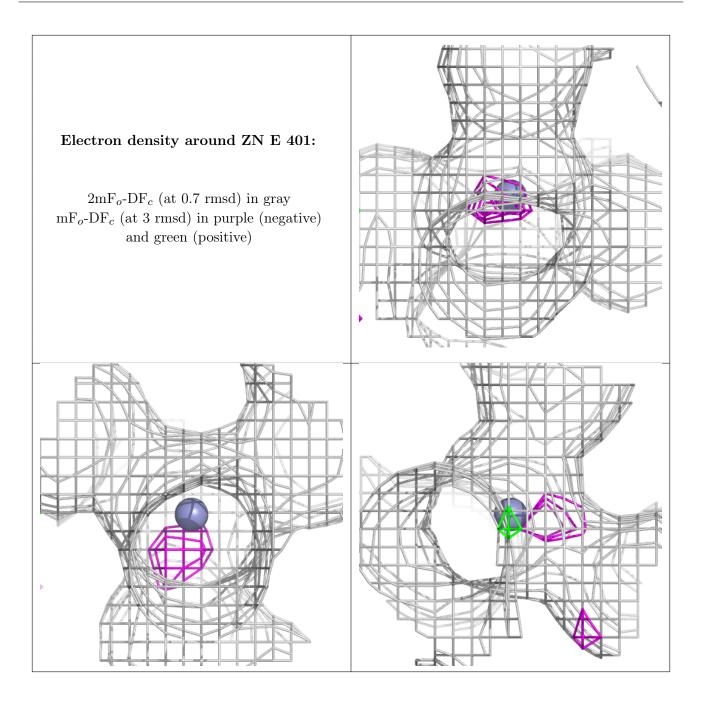




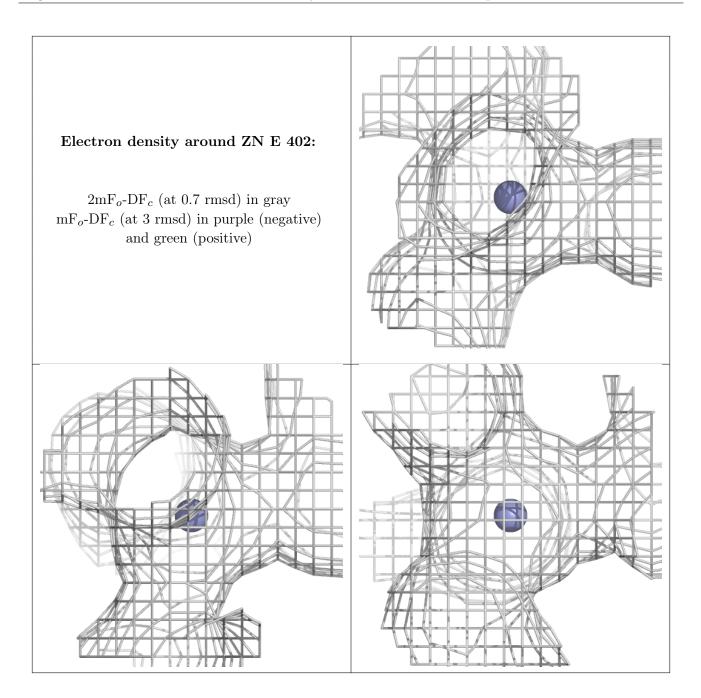












6.5 Other polymers (i)

There are no such residues in this entry.

