



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 28, 2026 – 09:02 PM UTC

PDB ID : 6L55 / pdb_00006l55
Title : Recombinant Tegillarca granosa ferritin
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Deposited on : 2019-10-22
Resolution : 1.78 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

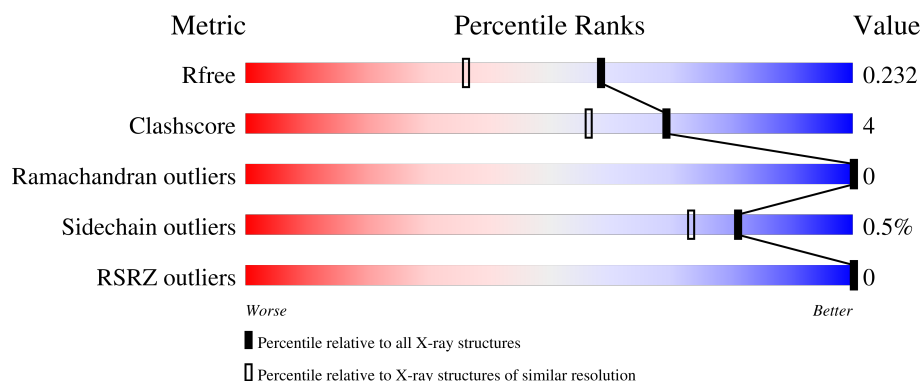
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.78 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.



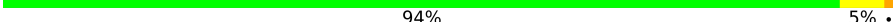
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1365 (1.78-1.78)
Clashscore	190562	1395 (1.78-1.78)
Ramachandran outliers	187476	1382 (1.78-1.78)
Sidechain outliers	187428	1382 (1.78-1.78)
RSRZ outliers	180081	1365 (1.78-1.78)

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	172	90% 8% ..
1	B	172	94% ..
1	C	172	88% 10% .
1	D	172	92% 6% .
1	E	172	92% 5% ..

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Mol	Chain	Length	Quality of chain
1	F	172	 90% 9% .
1	G	172	 92% 6% .
1	H	172	 91% 7% ..
1	I	172	 91% 8% .
1	J	172	 94% 5% ..
1	K	172	 90% 8% .
1	L	172	 88% 10% .

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 19079 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 Ferritin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	169	Total	C	N	O	S	0	2	0
			1401	878	237	277	9			
1	B	169	Total	C	N	O	S	0	1	0
			1386	869	232	276	9			
1	C	170	Total	C	N	O	S	0	2	0
			1401	878	236	278	9			
1	D	169	Total	C	N	O	S	0	0	0
			1382	866	232	275	9			
1	E	169	Total	C	N	O	S	0	2	0
			1399	877	236	277	9			
1	F	170	Total	C	N	O	S	0	1	0
			1395	874	234	278	9			
1	G	169	Total	C	N	O	S	0	1	0
			1389	871	233	276	9			
1	H	169	Total	C	N	O	S	0	2	0
			1394	874	234	277	9			
1	I	169	Total	C	N	O	S	0	2	0
			1395	874	235	277	9			
1	J	170	Total	C	N	O	S	0	1	0
			1393	873	233	278	9			
1	K	169	Total	C	N	O	S	0	1	0
			1390	870	233	278	9			
1	L	169	Total	C	N	O	S	0	1	0
			1389	871	233	276	9			

- Molecule 2 is FE (III) ION (CCD ID: FE) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Fe	0	0
			1	1		
2	B	2	Total	Fe	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	C	1	Total 1	Fe 1	0	0
2	D	2	Total 2	Fe 2	0	0
2	E	1	Total 1	Fe 1	0	0
2	F	2	Total 2	Fe 2	0	0
2	G	1	Total 1	Fe 1	0	0
2	H	1	Total 1	Fe 1	0	0
2	I	1	Total 1	Fe 1	0	0
2	J	1	Total 1	Fe 1	0	0
2	K	2	Total 2	Fe 2	0	0
2	L	1	Total 1	Fe 1	0	0

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total 2	Na 2	0	0
3	B	2	Total 2	Na 2	0	0
3	C	1	Total 1	Na 1	0	0
3	E	2	Total 2	Na 2	0	0
3	F	1	Total 1	Na 1	0	0
3	G	1	Total 1	Na 1	0	0
3	H	1	Total 1	Na 1	0	0
3	K	1	Total 1	Na 1	0	0

- Molecule 4 is FORMIC ACID (CCD ID: FMT) (formula: CH₂O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			3	1	2		
4	B	1	Total	C	O	0	0
			3	1	2		
4	C	1	Total	C	O	0	0
			3	1	2		
4	F	1	Total	C	O	0	0
			3	1	2		
4	G	1	Total	C	O	0	0
			3	1	2		
4	H	1	Total	C	O	0	0
			3	1	2		
4	I	1	Total	C	O	0	0
			3	1	2		
4	J	1	Total	C	O	0	0
			3	1	2		
4	K	1	Total	C	O	0	0
			3	1	2		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	204	Total	O	0	0
			204	204		
5	B	186	Total	O	0	0
			186	186		
5	C	201	Total	O	0	0
			201	201		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	D	190	Total 190	O 190	0	0
5	E	180	Total 180	O 180	0	0
5	F	193	Total 193	O 193	0	0
5	G	194	Total 194	O 194	0	0
5	H	187	Total 187	O 187	0	0
5	I	181	Total 181	O 181	0	0
5	J	195	Total 195	O 195	0	0
5	K	195	Total 195	O 195	0	0
5	L	205	Total 205	O 205	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: Ferritin

Chain A:  90% 8% ..



- Molecule 1: Ferritin

Chain B:  94% ..

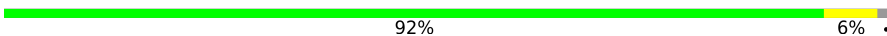


- Molecule 1: Ferritin

Chain C:  88% 10% .



- Molecule 1: Ferritin

Chain D:  92% 6% .



- Molecule 1: Ferritin

Chain E:  92% 5% ..

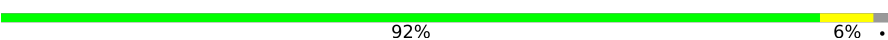


- Molecule 1: Ferritin

Chain F:  90% 9% .



- Molecule 1: Ferritin

Chain G:  92% 6% .



- Molecule 1: Ferritin

Chain H:  91% 7% ..



- Molecule 1: Ferritin

Chain I:  91% 8% .



- Molecule 1: Ferritin

Chain J:  94% 5% ..



- Molecule 1: Ferritin

Chain K:  90% 8% .



- Molecule 1: Ferritin

Chain L:  88% 10% .



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	214.62Å 214.91Å 151.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.04 – 1.78 48.04 – 1.78	Depositor EDS
% Data completeness (in resolution range)	99.8 (48.04-1.78) 99.5 (48.04-1.78)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.55 (at 1.78Å)	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.204 , 0.231 0.205 , 0.232	Depositor DCC
R_{free} test set	16666 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	9.0	Xtriage
Anisotropy	0.154	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 38.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	0.449 for -1/2*h-1/2*k+1,-1/2*h-1/2*k-l,1/2 *h-1/2*k 0.457 for -1/2*h-1/2*k-l,-1/2*h-1/2*k+1,-1/ 2*h+1/2*k 0.458 for -1/2*h+1/2*k-l,1/2*h-1/2*k-l,-1/2 *h-1/2*k 0.450 for -1/2*h+1/2*k+1,1/2*h-1/2*k+1,1 /2*h+1/2*k 0.458 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	19079	wwPDB-VP
Average B, all atoms (Å ²)	8.0	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 87.25 % 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 7.2840e-08. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹ Intensities estimated from amplitudes.

² 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: FMT, NA, FE

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	0.23	0/1428	0.46	0/1918
1	B	0.25	0/1412	0.46	0/1899
1	C	0.25	0/1428	0.50	0/1920
1	D	0.23	0/1408	0.45	0/1892
1	E	0.23	0/1426	0.45	0/1917
1	F	0.26	0/1421	0.48	0/1910
1	G	0.24	0/1415	0.46	0/1902
1	H	0.24	0/1420	0.47	0/1911
1	I	0.25	0/1422	0.48	0/1912
1	J	0.25	0/1419	0.46	0/1908
1	K	0.24	0/1416	0.44	0/1903
1	L	0.25	0/1415	0.47	0/1902
All	All	0.24	0/17030	0.46	0/22894

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	1401	0	1343	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	1386	0	1324	6	0
1	C	1401	0	1335	14	0
1	D	1382	0	1325	7	0
1	E	1399	0	1339	8	1
1	F	1395	0	1338	10	0
1	G	1389	0	1333	7	0
1	H	1394	0	1318	10	0
1	I	1395	0	1326	11	0
1	J	1393	0	1331	7	0
1	K	1390	0	1328	10	1
1	L	1389	0	1333	15	0
2	A	1	0	0	0	0
2	B	2	0	0	0	0
2	C	1	0	0	0	0
2	D	2	0	0	0	0
2	E	1	0	0	0	0
2	F	2	0	0	0	0
2	G	1	0	0	0	0
2	H	1	0	0	0	0
2	I	1	0	0	0	0
2	J	1	0	0	0	0
2	K	2	0	0	0	0
2	L	1	0	0	0	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
3	C	1	0	0	0	0
3	E	2	0	0	0	0
3	F	1	0	0	0	0
3	G	1	0	0	0	0
3	H	1	0	0	0	0
3	K	1	0	0	0	0
4	A	3	0	1	0	0
4	B	3	0	1	0	0
4	C	3	0	1	0	0
4	F	3	0	1	0	0
4	G	3	0	1	0	0
4	H	3	0	1	0	0
4	I	3	0	1	0	0
4	J	3	0	1	0	0
4	K	3	0	1	1	0
5	A	204	0	0	7	4
5	B	186	0	0	5	4

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	201	0	0	4	2
5	D	190	0	0	2	1
5	E	180	0	0	2	1
5	F	193	0	0	4	1
5	G	194	0	0	2	2
5	H	187	0	0	4	4
5	I	181	0	0	6	5
5	J	195	0	0	3	2
5	K	195	0	0	4	5
5	L	205	0	0	7	3
All	All	19079	0	15982	115	18

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.

The worst 5 of 115 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:I:60:GLU:OE2	5:I:301:HOH:O	2.03	0.77
1:I:51:LYS:NZ	5:I:304:HOH:O	2.13	0.76
1:F:60:GLU:OE2	5:F:301:HOH:O	2.04	0.76
1:B:60:GLU:OE2	5:B:301:HOH:O	2.04	0.75
1:C:60:GLU:OE2	5:C:301:HOH:O	2.03	0.75

The worst 5 of 18 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)
5:A:457:HOH:O	5:G:450:HOH:O[4_555]	1.98	0.22
5:A:450:HOH:O	5:D:413:HOH:O[4_556]	2.06	0.14
5:E:467:HOH:O	5:K:462:HOH:O[3_656]	2.08	0.12
5:I:332:HOH:O	5:L:467:HOH:O[8_446]	2.08	0.12
5:H:438:HOH:O	5:K:301:HOH:O[3_656]	2.10	0.10

5.3 Torsion angles

5.3.1 Protein backbone

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	169/172 (98%)	166 (98%)	3 (2%)	0	100	100
1	B	168/172 (98%)	165 (98%)	3 (2%)	0	100	100
1	C	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
1	D	167/172 (97%)	163 (98%)	4 (2%)	0	100	100
1	E	169/172 (98%)	166 (98%)	3 (2%)	0	100	100
1	F	169/172 (98%)	166 (98%)	3 (2%)	0	100	100
1	G	168/172 (98%)	165 (98%)	3 (2%)	0	100	100
1	H	169/172 (98%)	167 (99%)	2 (1%)	0	100	100
1	I	169/172 (98%)	166 (98%)	3 (2%)	0	100	100
1	J	169/172 (98%)	166 (98%)	3 (2%)	0	100	100
1	K	168/172 (98%)	165 (98%)	3 (2%)	0	100	100
1	L	168/172 (98%)	165 (98%)	3 (2%)	0	100	100
All	All	2023/2064 (98%)	1988 (98%)	35 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

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	151/151 (100%)	149 (99%)	2 (1%)	61	46
1	B	149/151 (99%)	147 (99%)	2 (1%)	61	46

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	151/151 (100%)	150 (99%)	1 (1%)	76	66
1	D	149/151 (99%)	148 (99%)	1 (1%)	76	66
1	E	151/151 (100%)	150 (99%)	1 (1%)	76	66
1	F	151/151 (100%)	151 (100%)	0	100	100
1	G	150/151 (99%)	150 (100%)	0	100	100
1	H	148/151 (98%)	147 (99%)	1 (1%)	76	66
1	I	150/151 (99%)	150 (100%)	0	100	100
1	J	150/151 (99%)	148 (99%)	2 (1%)	61	46
1	K	150/151 (99%)	150 (100%)	0	100	100
1	L	150/151 (99%)	148 (99%)	2 (1%)	61	46
All	All	1800/1812 (99%)	1788 (99%)	12 (1%)	81	66

5 of 12 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	101	THR
1	J	30	TYR
1	L	140[B]	VAL
1	J	73	LYS
1	B	140[B]	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 22 such sidechains are listed below:

Mol	Chain	Res	Type
1	I	152	ASN
1	K	3	GLN
1	J	99	GLN
1	K	55	HIS
1	C	109	ASN

5.3.3 RNA ⓘ

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 36 ligands modelled in this entry, 27 are monoatomic - leaving 9 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	$\# Z > 2$
4	FMT	C	203	-	2,2,2	0.76	0	1,1,1	0.38	0
4	FMT	A	204	-	2,2,2	0.75	0	1,1,1	0.30	0
4	FMT	B	205	-	2,2,2	0.78	0	1,1,1	0.24	0
4	FMT	H	203	-	2,2,2	0.74	0	1,1,1	0.24	0
4	FMT	I	202	-	2,2,2	0.73	0	1,1,1	0.32	0
4	FMT	J	202	-	2,2,2	0.69	0	1,1,1	0.32	0
4	FMT	G	203	-	2,2,2	0.76	0	1,1,1	0.26	0
4	FMT	F	204	-	2,2,2	0.76	0	1,1,1	0.33	0
4	FMT	K	204	-	2,2,2	0.75	0	1,1,1	0.22	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.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	K	204	FMT	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	169/172 (98%)	-1.22	0 100 100	4, 7, 14, 21	2 (1%)
1	B	169/172 (98%)	-1.25	0 100 100	3, 7, 13, 22	1 (0%)
1	C	170/172 (98%)	-1.32	0 100 100	2, 6, 13, 41	2 (1%)
1	D	169/172 (98%)	-1.28	0 100 100	4, 8, 15, 26	0
1	E	169/172 (98%)	-1.28	0 100 100	3, 8, 14, 23	2 (1%)
1	F	170/172 (98%)	-1.32	0 100 100	2, 6, 15, 40	1 (0%)
1	G	169/172 (98%)	-1.29	0 100 100	2, 6, 12, 21	1 (0%)
1	H	169/172 (98%)	-1.25	0 100 100	3, 7, 14, 23	2 (1%)
1	I	169/172 (98%)	-1.25	0 100 100	3, 7, 15, 21	2 (1%)
1	J	170/172 (98%)	-1.28	0 100 100	3, 6, 14, 39	1 (0%)
1	K	169/172 (98%)	-1.25	0 100 100	4, 6, 14, 21	1 (0%)
1	L	169/172 (98%)	-1.25	0 100 100	2, 6, 14, 21	1 (0%)
All	All	2031/2064 (98%)	-1.27	0 100 100	2, 7, 14, 41	16 (0%)

There are no RSRZ outliers to report.

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](#)

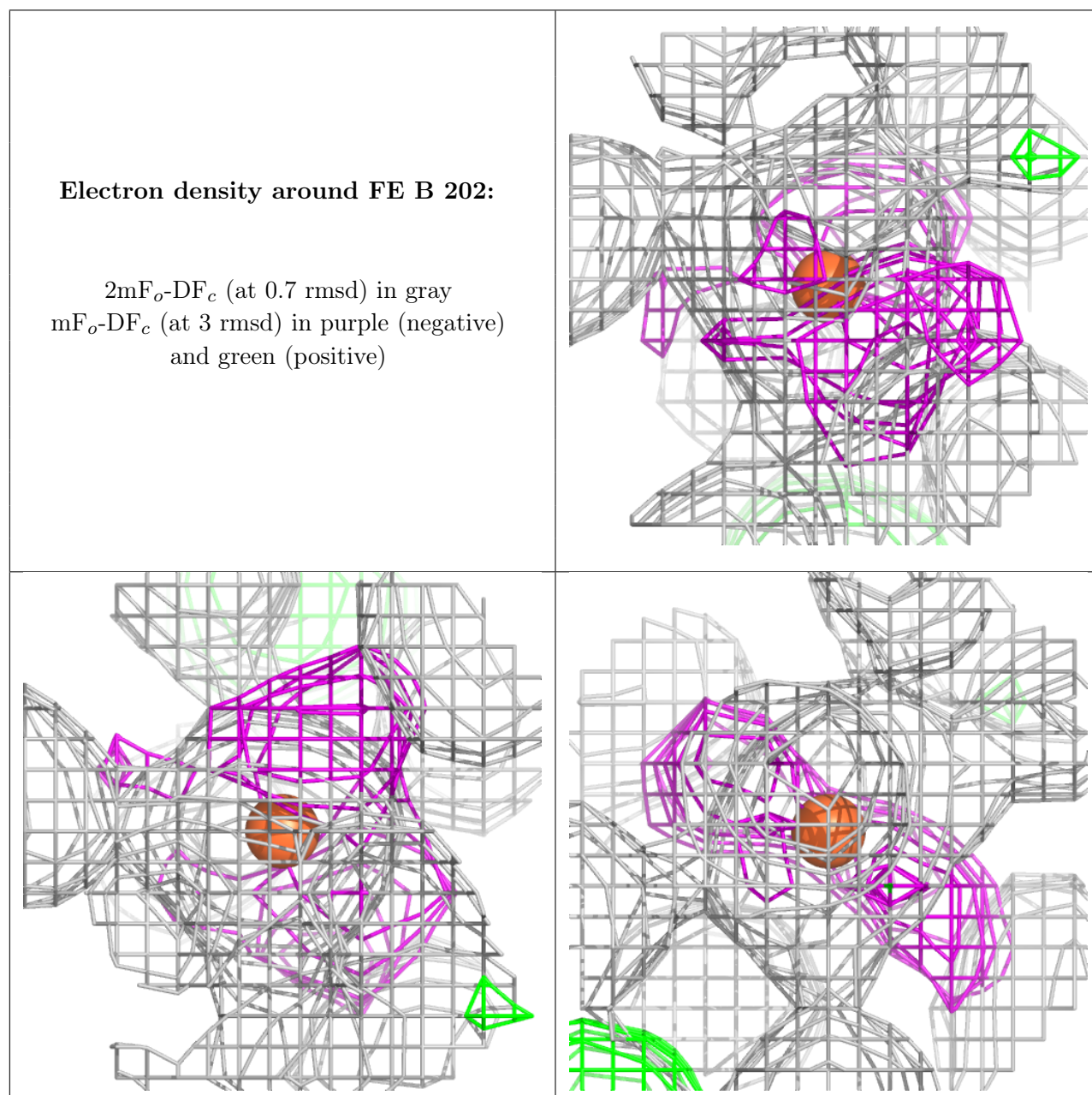
There are no oligosaccharides in this entry.

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.

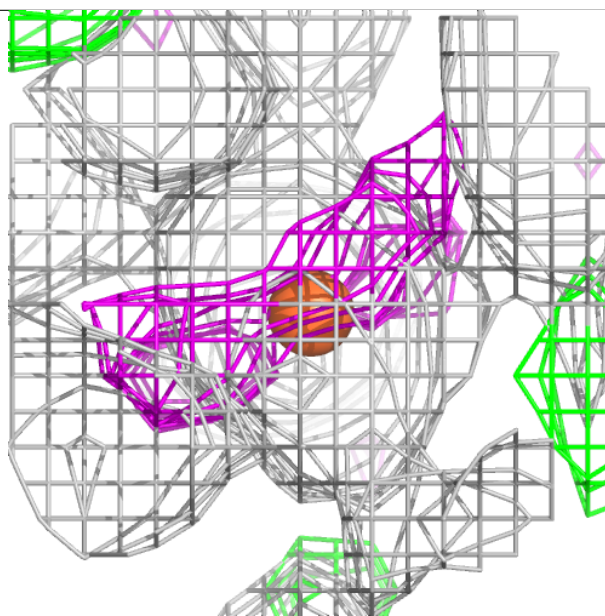
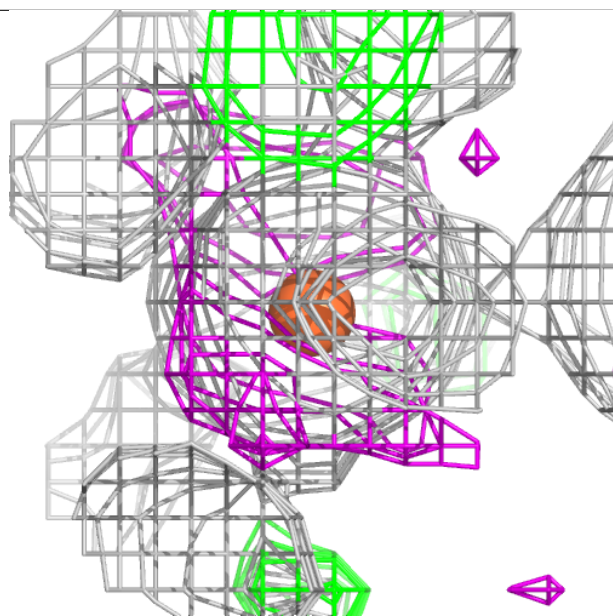
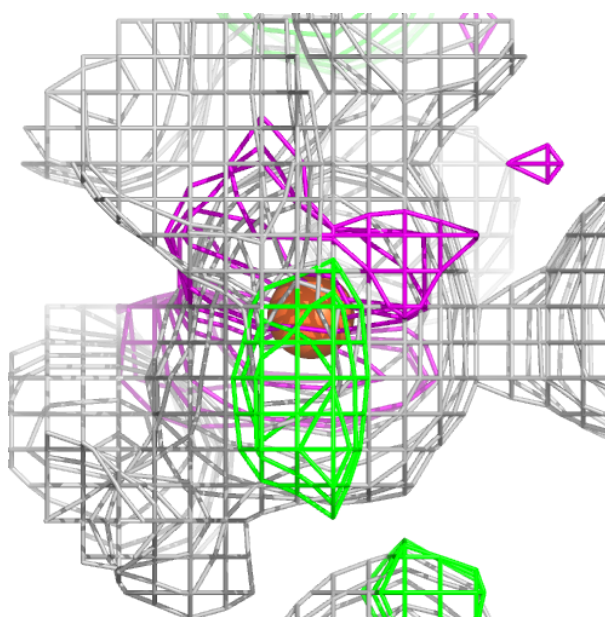
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	FMT	H	203	3/3	0.97	0.06	15,15,17,17	0
4	FMT	I	202	3/3	0.97	0.05	22,22,23,25	0
4	FMT	A	204	3/3	0.98	0.04	15,15,18,21	0
4	FMT	B	205	3/3	0.98	0.13	19,19,20,21	0
3	NA	B	203	1/1	0.99	0.07	13,13,13,13	0
3	NA	B	204	1/1	0.99	0.03	15,15,15,15	0
3	NA	E	203	1/1	0.99	0.05	14,14,14,14	0
3	NA	F	203	1/1	0.99	0.04	14,14,14,14	0
2	FE	B	202	1/1	0.99	0.05	23,23,23,23	0
2	FE	D	202	1/1	0.99	0.05	26,26,26,26	0
4	FMT	C	203	3/3	0.99	0.04	13,13,15,19	0
4	FMT	F	204	3/3	0.99	0.04	14,14,19,26	0
4	FMT	G	203	3/3	0.99	0.06	21,21,26,28	0
2	FE	F	202	1/1	0.99	0.06	24,24,24,24	0
2	FE	K	202	1/1	0.99	0.06	27,27,27,27	0
4	FMT	J	202	3/3	0.99	0.05	11,11,19,22	0
4	FMT	K	204	3/3	0.99	0.04	16,16,22,28	0
3	NA	A	203	1/1	1.00	0.04	12,12,12,12	0
2	FE	D	201	1/1	1.00	0.03	15,15,15,15	0
2	FE	B	201	1/1	1.00	0.04	14,14,14,14	0
3	NA	C	202	1/1	1.00	0.06	12,12,12,12	0
3	NA	E	202	1/1	1.00	0.04	14,14,14,14	0
2	FE	E	201	1/1	1.00	0.03	15,15,15,15	0
2	FE	F	201	1/1	1.00	0.04	13,13,13,13	0
3	NA	G	202	1/1	1.00	0.03	12,12,12,12	0
3	NA	H	202	1/1	1.00	0.02	13,13,13,13	0
3	NA	K	203	1/1	1.00	0.03	11,11,11,11	0
2	FE	A	201	1/1	1.00	0.05	13,13,13,13	0
2	FE	G	201	1/1	1.00	0.04	15,15,15,15	0
2	FE	H	201	1/1	1.00	0.04	14,14,14,14	0
2	FE	I	201	1/1	1.00	0.05	14,14,14,14	0
2	FE	J	201	1/1	1.00	0.03	14,14,14,14	0
2	FE	K	201	1/1	1.00	0.05	14,14,14,14	0
2	FE	C	201	1/1	1.00	0.03	13,13,13,13	0
2	FE	L	201	1/1	1.00	0.04	13,13,13,13	0
3	NA	A	202	1/1	1.00	0.02	12,12,12,12	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.



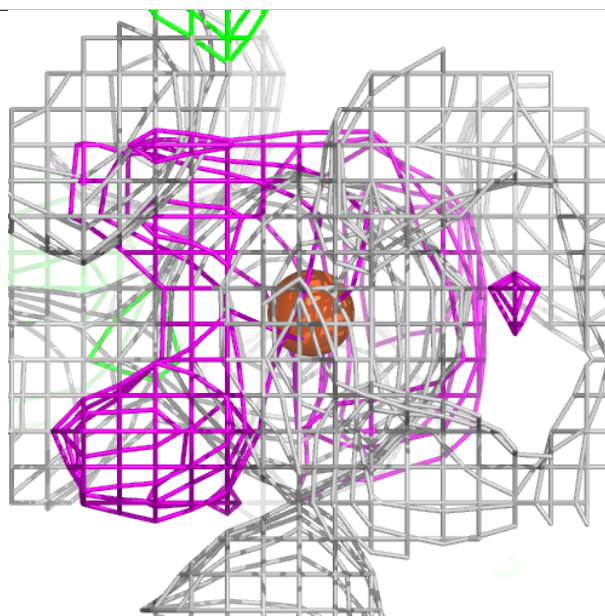
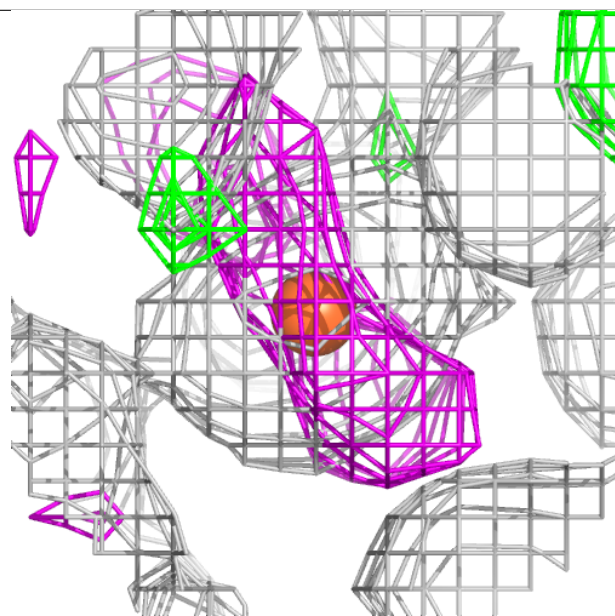
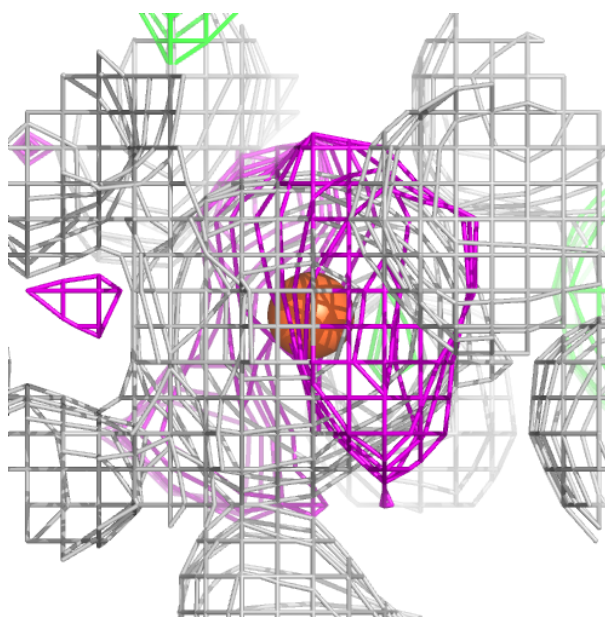
Electron density around FE D 202:

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and green (positive)



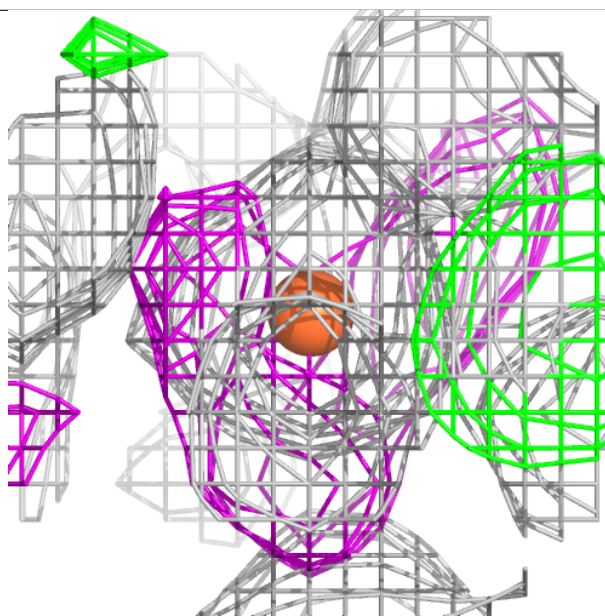
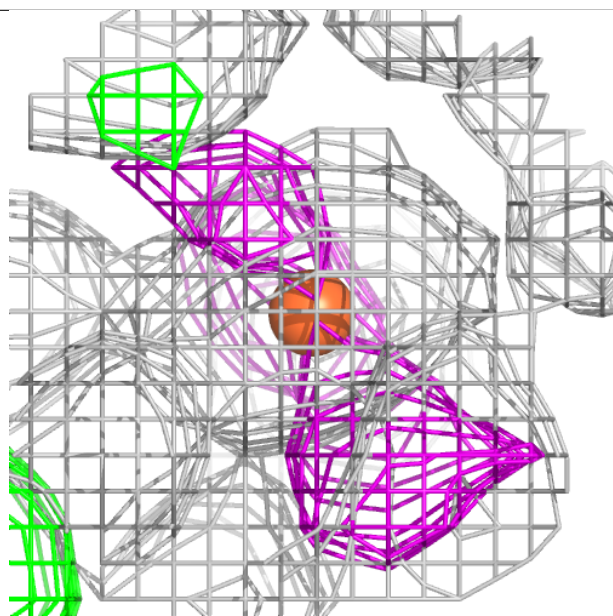
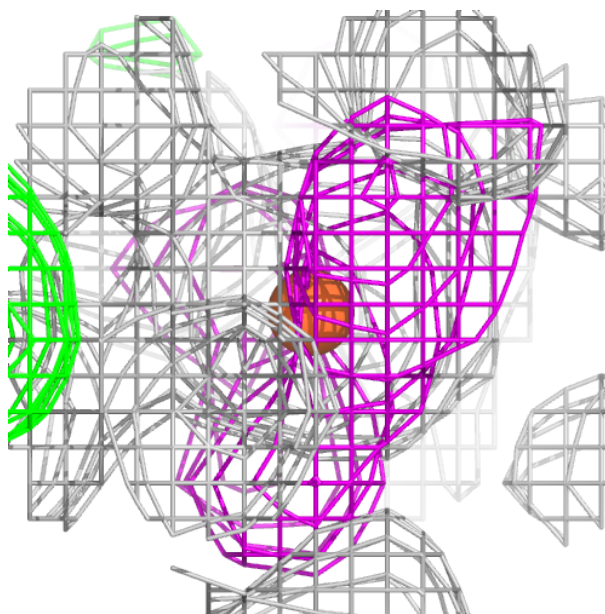
Electron density around FE F 202:

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



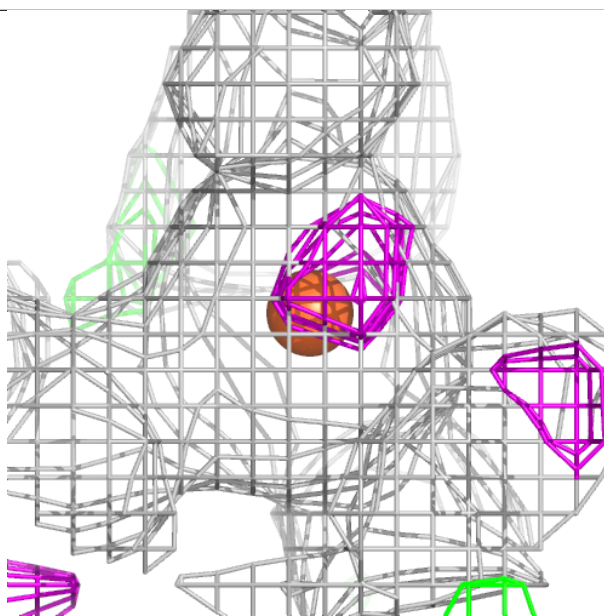
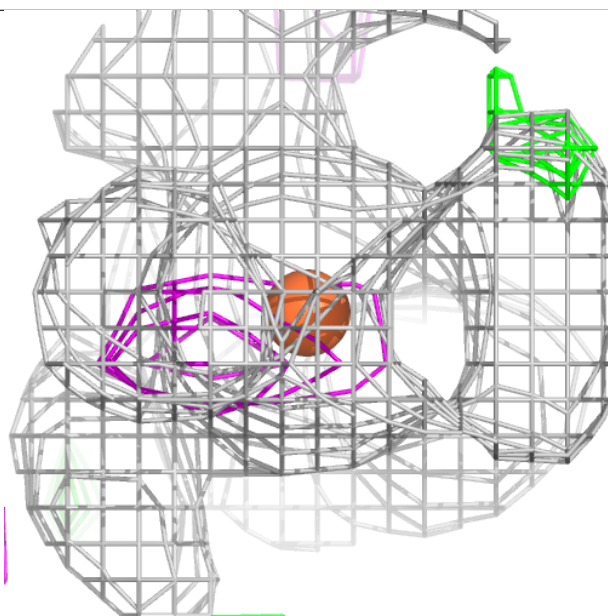
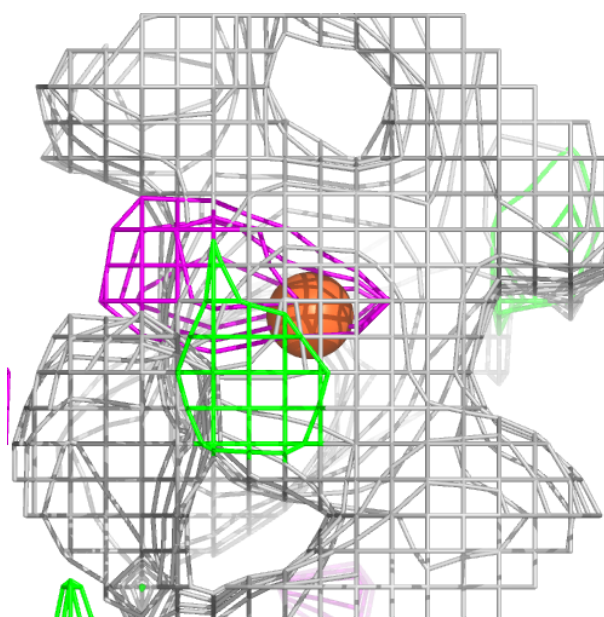
Electron density around FE K 202:

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and green (positive)



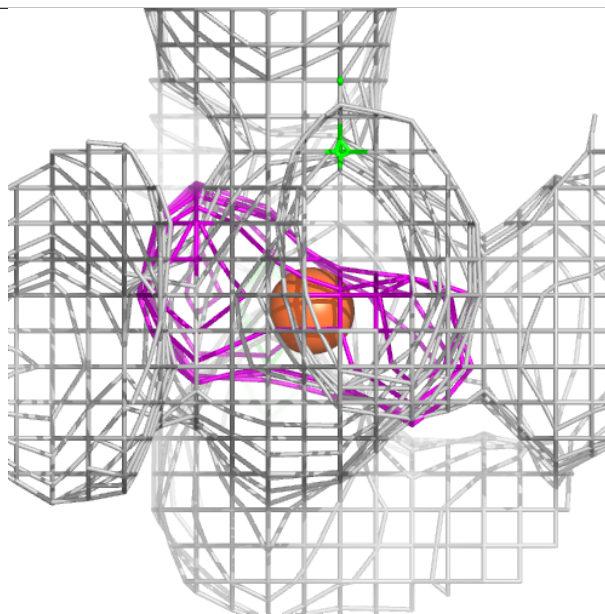
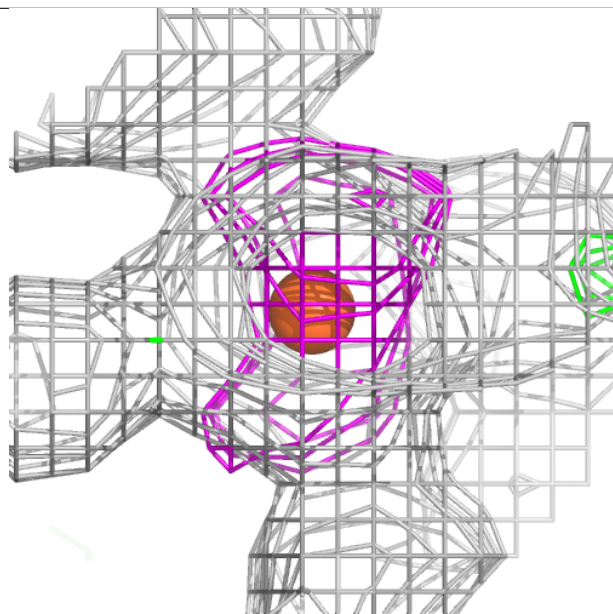
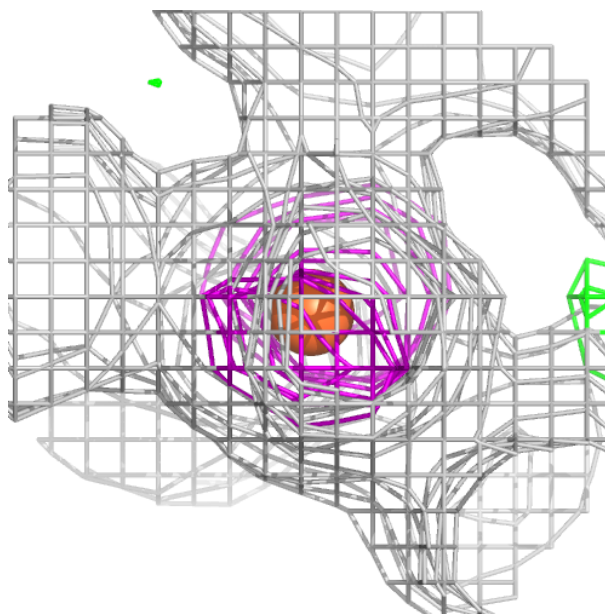
Electron density around FE D 201:

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and green (positive)



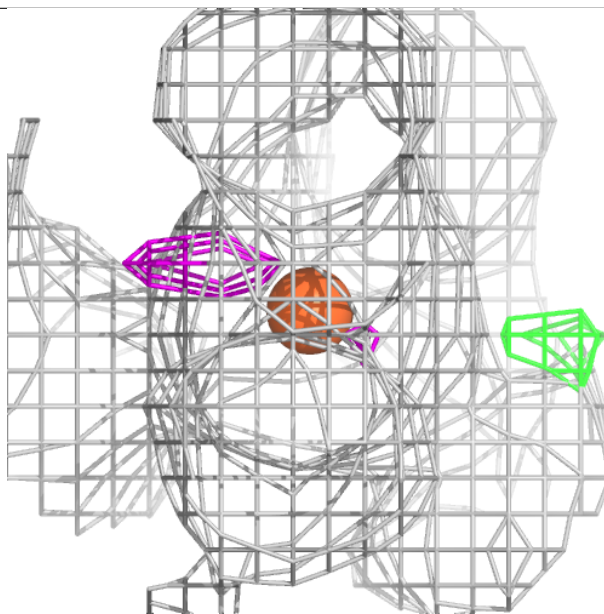
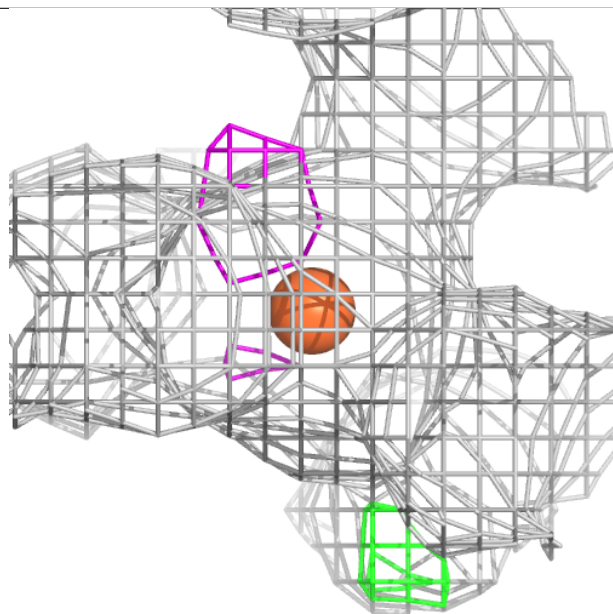
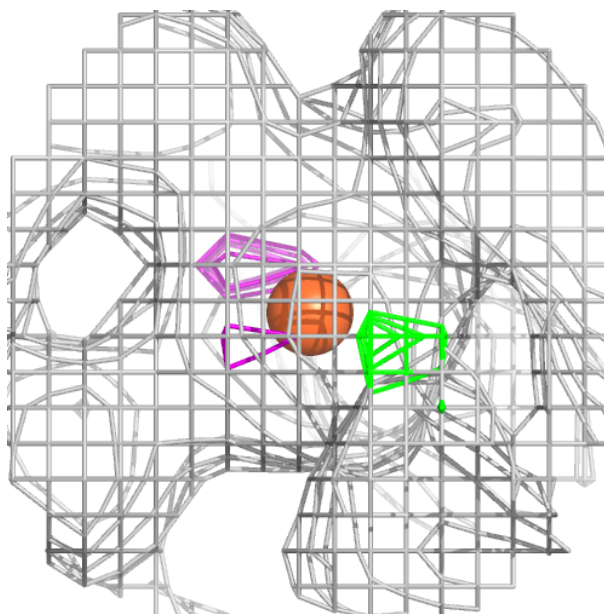
Electron density around FE B 201:

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and green (positive)



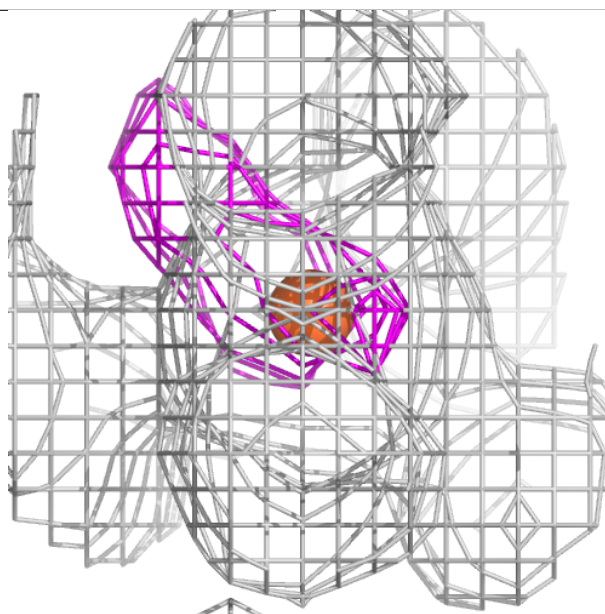
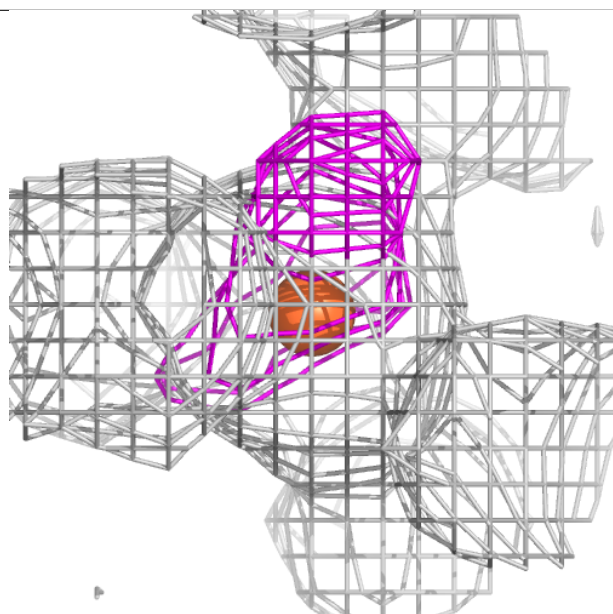
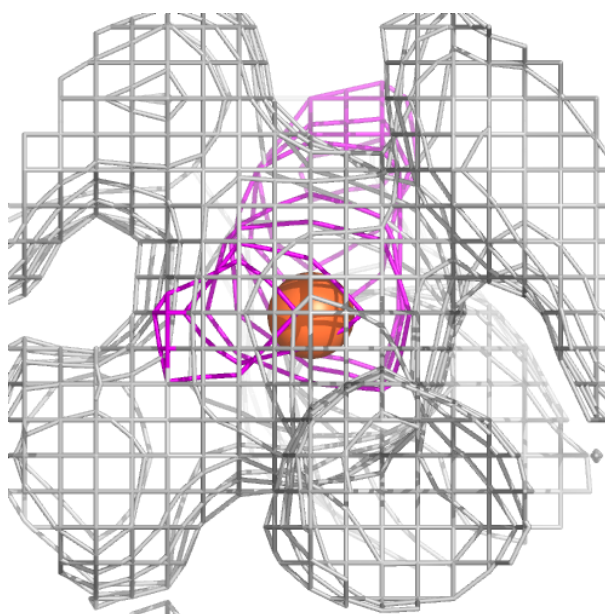
Electron density around FE E 201:

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and green (positive)



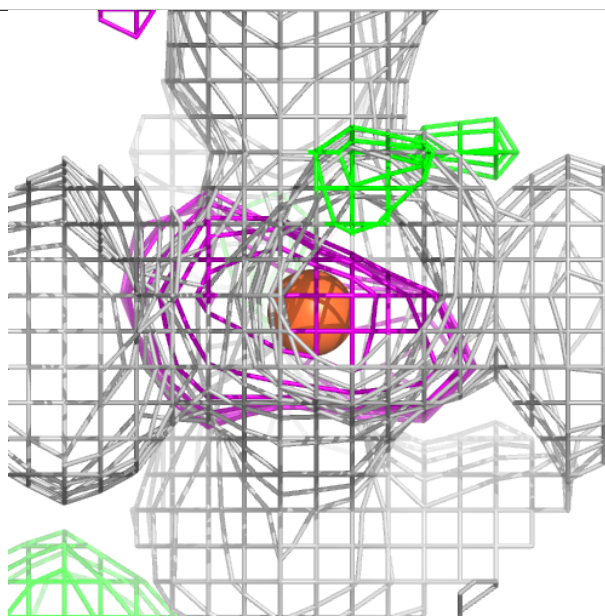
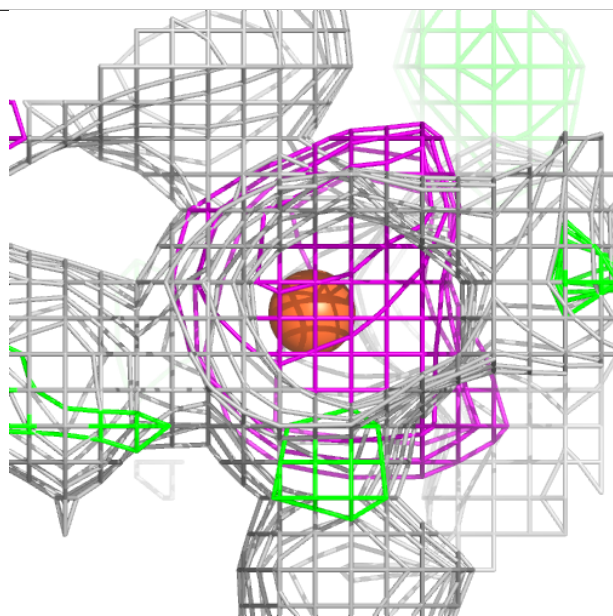
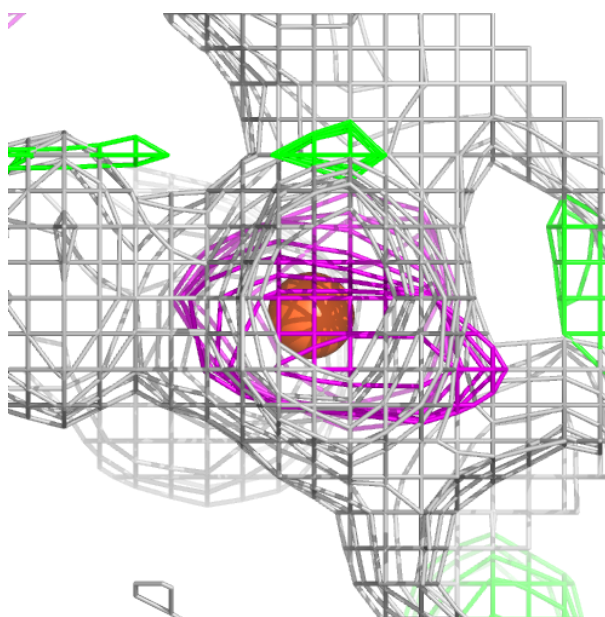
Electron density around FE F 201:

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



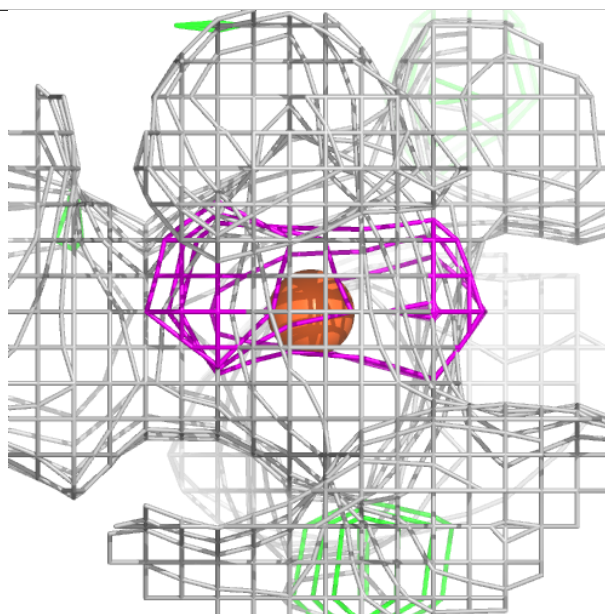
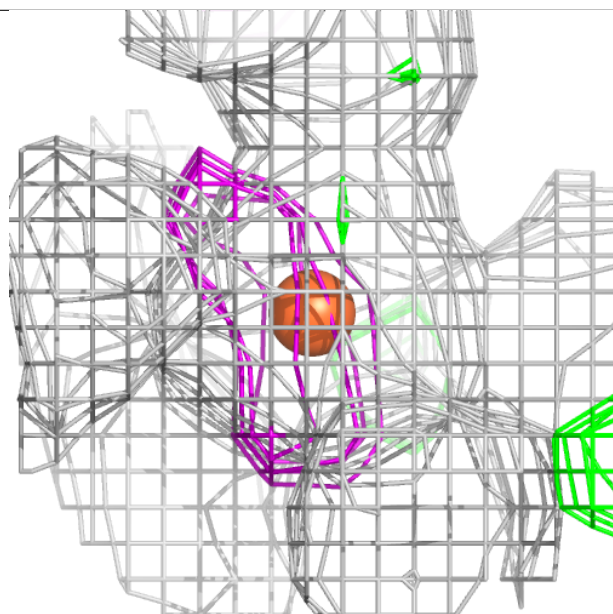
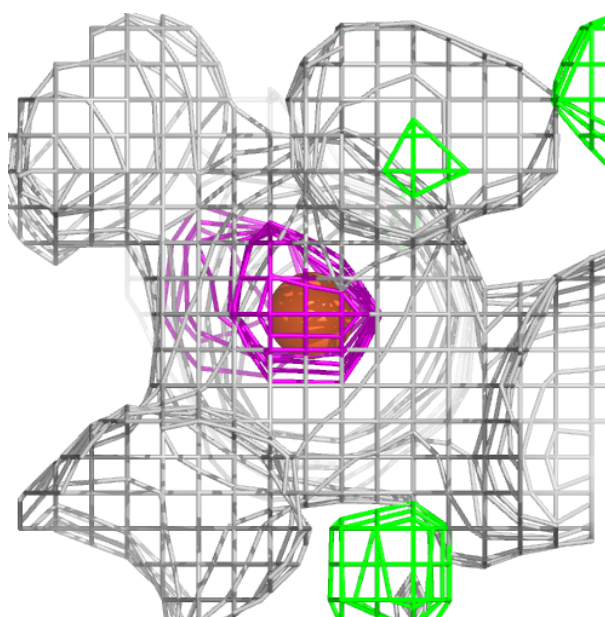
Electron density around FE A 201:

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and green (positive)



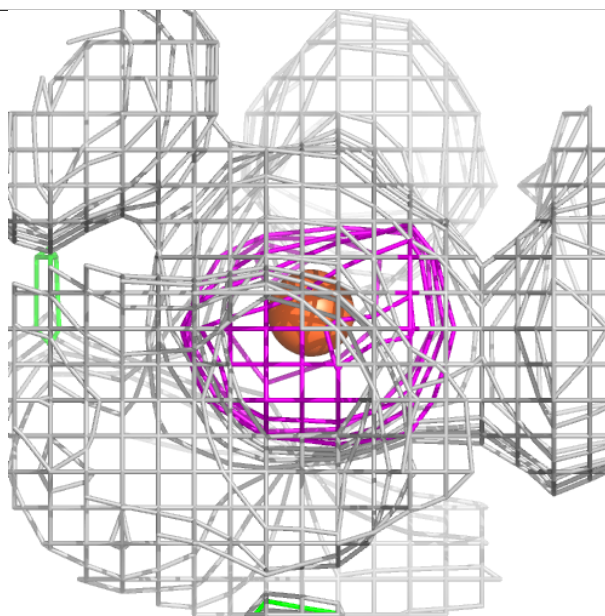
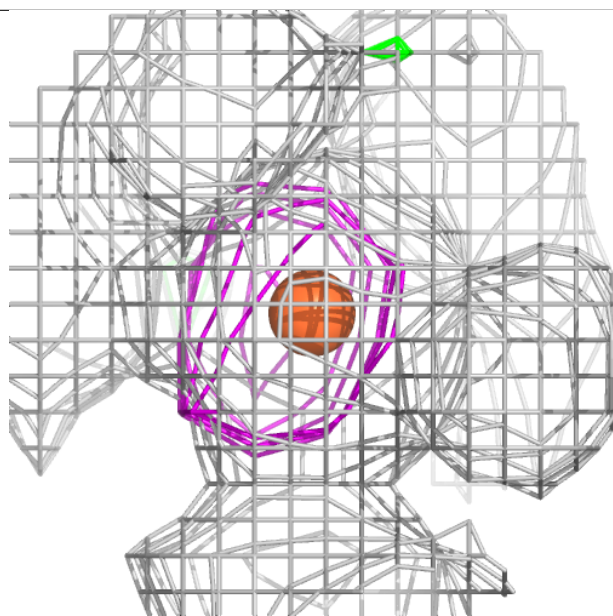
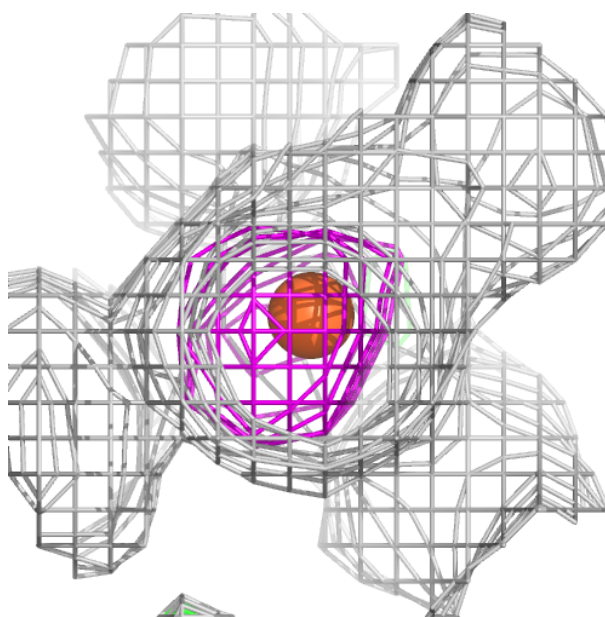
Electron density around FE G 201:

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



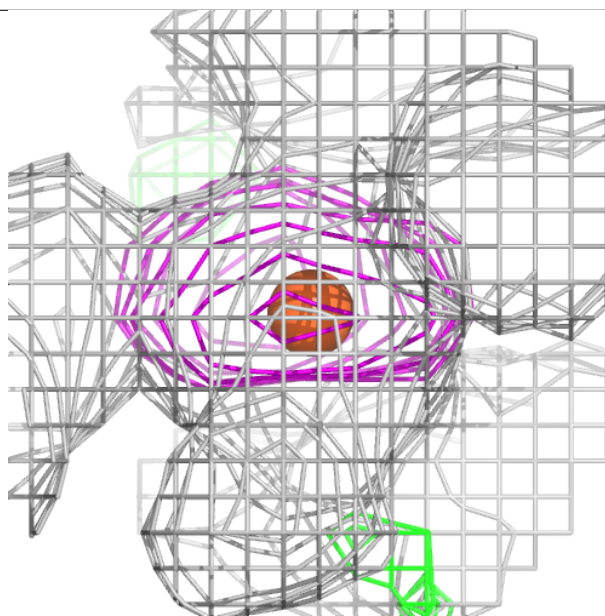
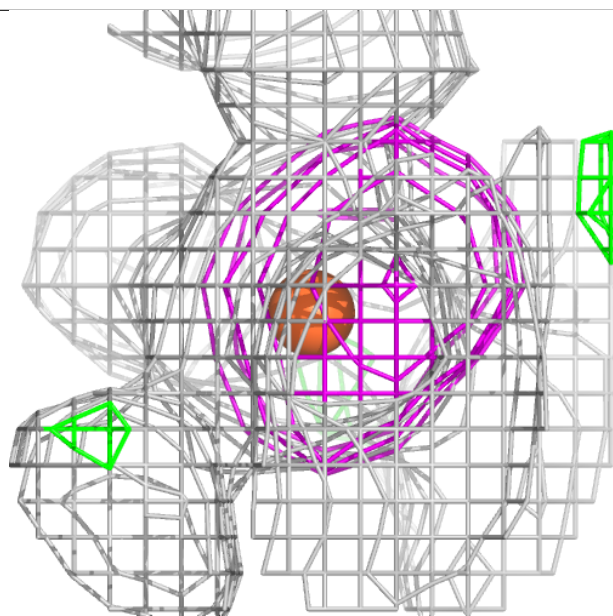
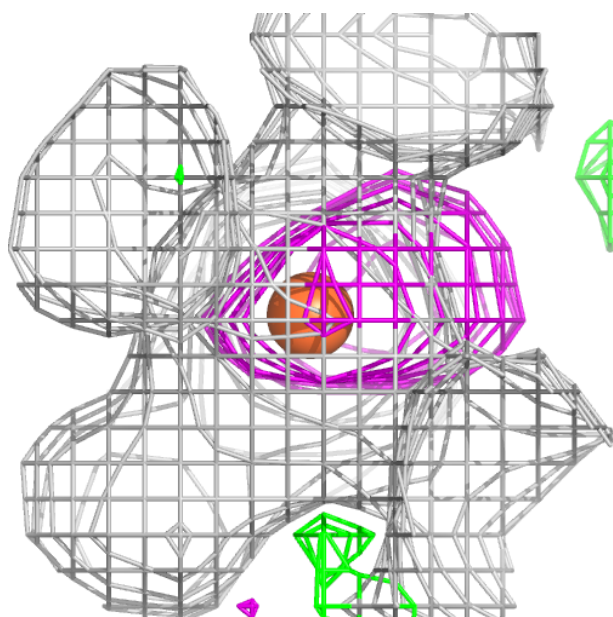
Electron density around FE H 201:

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and green (positive)



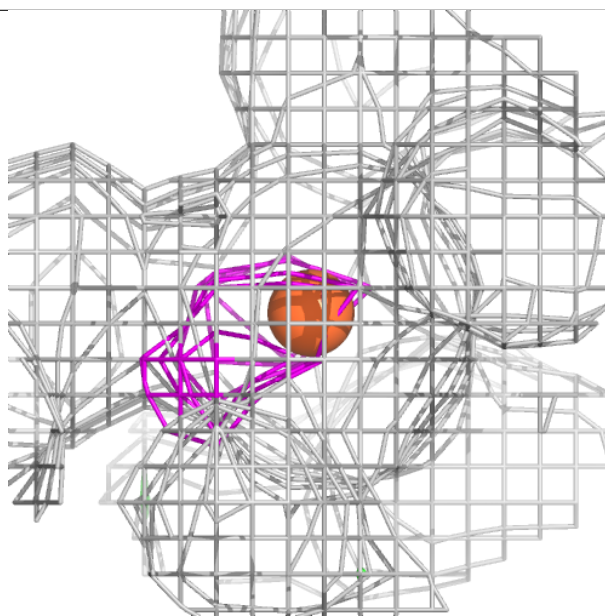
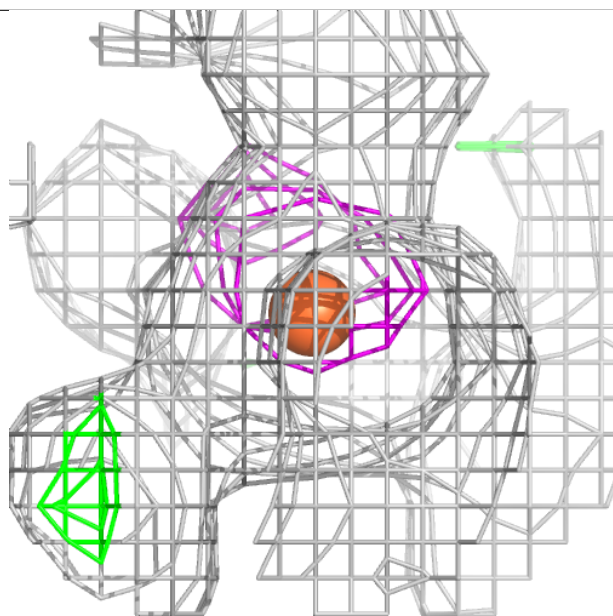
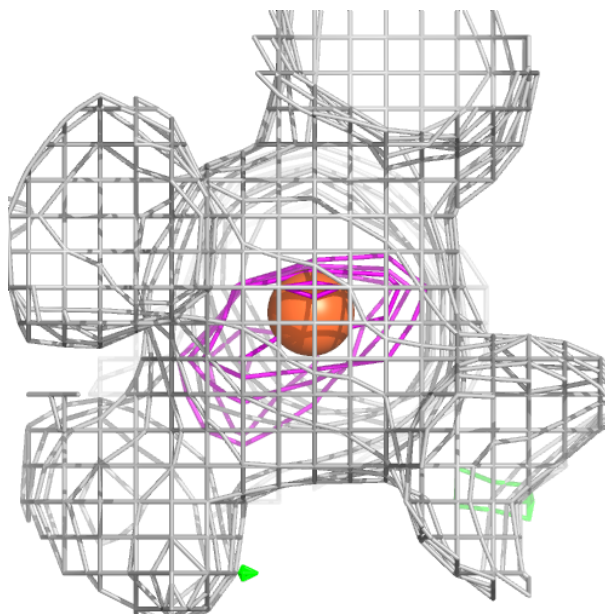
Electron density around FE I 201:

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and green (positive)



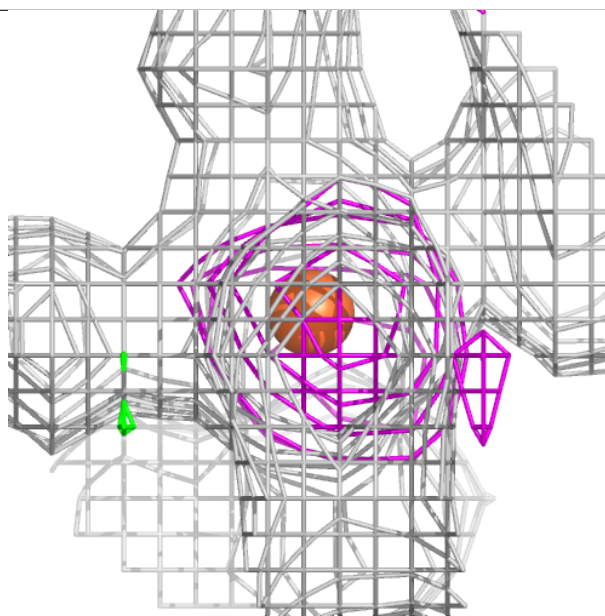
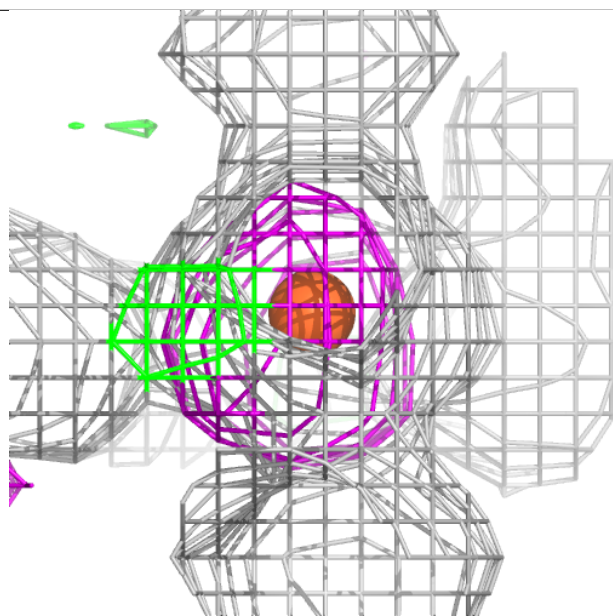
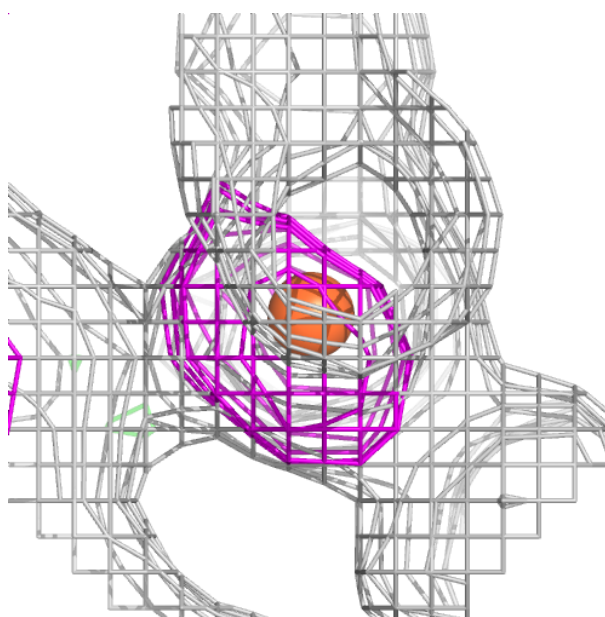
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and green (positive)



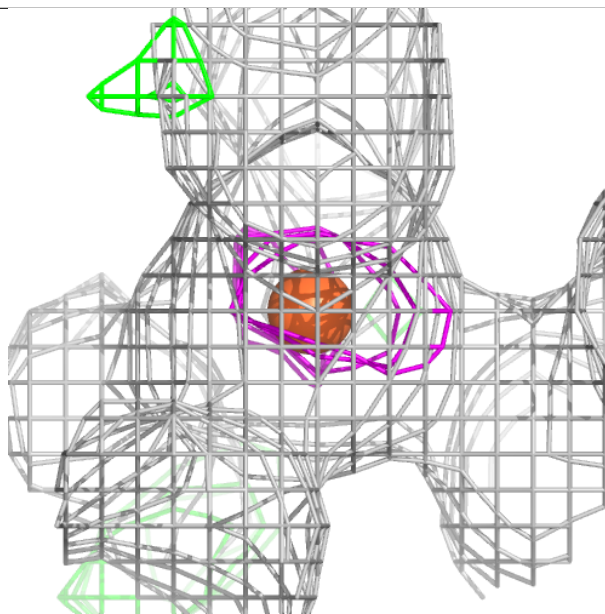
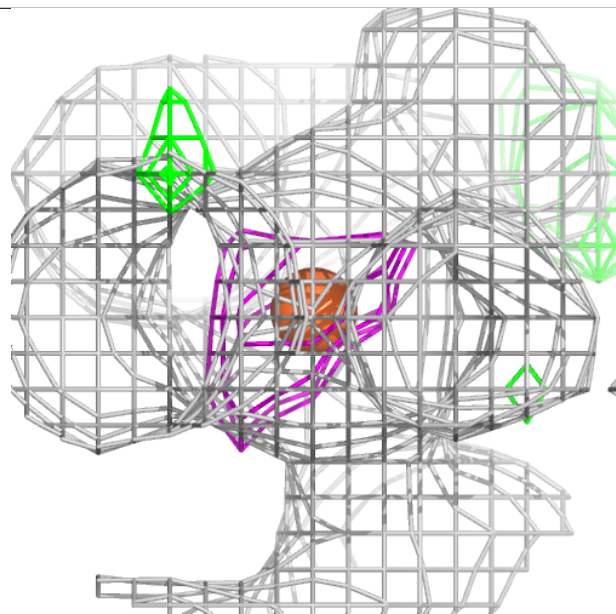
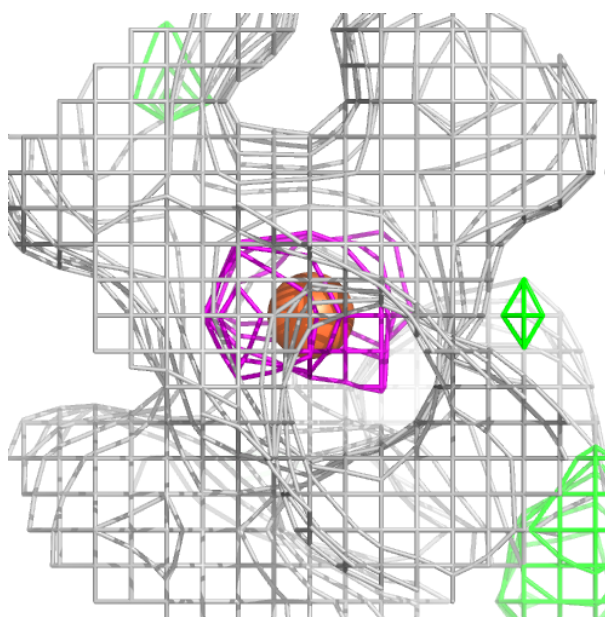
Electron density around FE K 201:

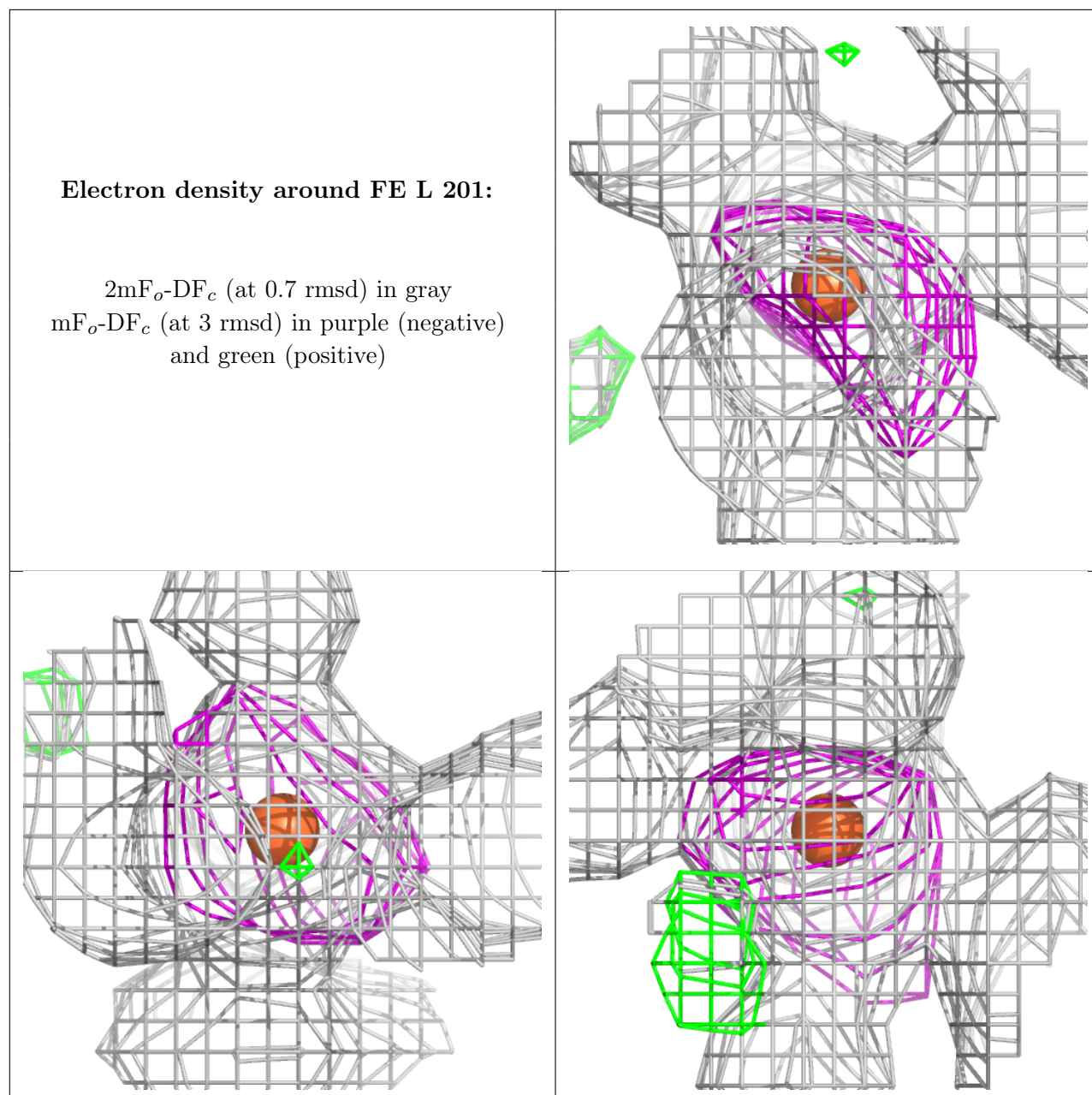
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and green (positive)



Electron density around FE 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 ⓘ

There are no such residues in this entry.