

wwPDB X-ray Structure Validation Summary Report (i)

Mar 7, 2022 – 02:08 PM JST

PDB ID : 7ECK

Title : RNA duplex containing C-Ag-A and U-Ag-A base pairs

Authors: Kondo, J.; Uchida, Y.

Deposited on : 2021-03-12

Resolution : 2.79 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 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 : 2.27

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)

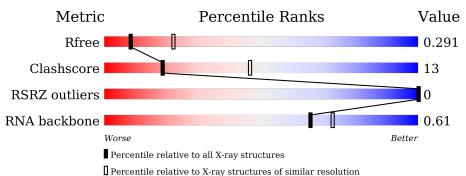
Validation Pipeline (wwPDB-VP) : 2.27

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.79 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	3140 (2.80-2.80)
Clashscore	141614	3569 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)
RNA backbone	3102	1227 (3.10-2.50)

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	A	12	33%	50%	17%			
1	В	12	50%	42%	8%			
1	С	12	33%	67%				
1	D	12	42%	42%	17%			
1	Е	12	67%	25%	8%			
1	F	12	58%	33%	8%			



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Mol	Chain	Length	Quality of chain			
1	G	12	75%		8% 17%	
1	Н	12	42%	42%	17%	
1	I	12	50%	25%	25%	
1	J	12	42%	42%	17%	
1	K	12	33%	58%	8%	
1	L	12	42%	42%	17%	



2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 3045 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 RNA chain called DNA/RNA (5'-R(*GP*GP*AP*CP*U)-D(P*(CBR))-R(P*GP*AP*AP*UP*CP*C)-3').

Mol	Chain	Residues			Aton	ıs			ZeroOcc	AltConf	Trace
1	A	12	Total	Br	С	N	О	Р	0	0	0
1	A	12	252	1	114	46	80	11	0	U	0
1	В	12	Total	Br	С	N	О	Р	0	0	0
1	Ъ	12	252	1	114	46	80	11		U	U
1	С	12	Total	Br	С	N	Ο	Р	0	0	0
1	C	12	252	1	114	46	80	11		U	U
1	D	12	Total	Br	С	N	О	Р	0	0	0
1	D	12	252	1	114	46	80	11	0	U	U
1	Е	12	Total	Br	С	N	О	Р	0	0	0
1	ш	12	252	1	114	46	80	11		U	U
1	F	12	Total	Br	С	N	О	Р	0	0	0
1	I.	12	252	1	114	46	80	11	0	U	U
1	G	12	Total	Br	С	N	Ο	Р	0	0	0
1	d	12	252	1	114	46	80	11		O	U
1	Н	12	Total	Br	С	N	Ο	Р	0	0	0
1	11	12	252	1	114	46	80	11		O	U
1	I	12	Total	Br	С	N	Ο	Р	0	0	0
1	1	12	252	1	114	46	80	11		O	U
1	J	12	Total	Br	С	N	Ο	Р	0	0	0
1	3	12	252	1	114	46	80	11		O	U
1	K	12	Total	Br	С	N	Ο	Р	0	0	0
1	17	12	252	1	114	46	80	11		U	U
1	L	12	Total	Br	С	N	Ο	Р	0	0	0
1	П	12	252	1	114	46	80	11	0	U	U

• Molecule 2 is SILVER ION (three-letter code: AG) (formula: Ag) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Ag 2 2	0	0



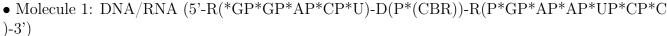
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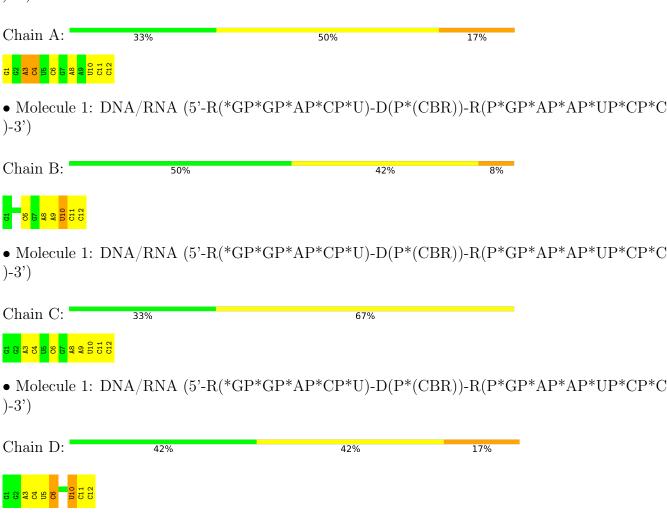
		Residues	Atoms	ZeroOcc	AltConf
2	В	1	Total Ag 1 1	0	0
2	С	1	Total Ag 1 1	0	0
2	D	3	Total Ag 3 3	0	0
2	E	2	Total Ag 2 2	0	0
2	F	1	Total Ag 1 1	0	0
2	G	2	Total Ag 2 2	0	0
2	Н	2	Total Ag 2 2	0	0
2	I	1	Total Ag 1 1	0	0
2	J	2	Total Ag 2 2	0	0
2	K	1	Total Ag 1 1	0	0
2	L	3	Total Ag 3 3	0	0



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.





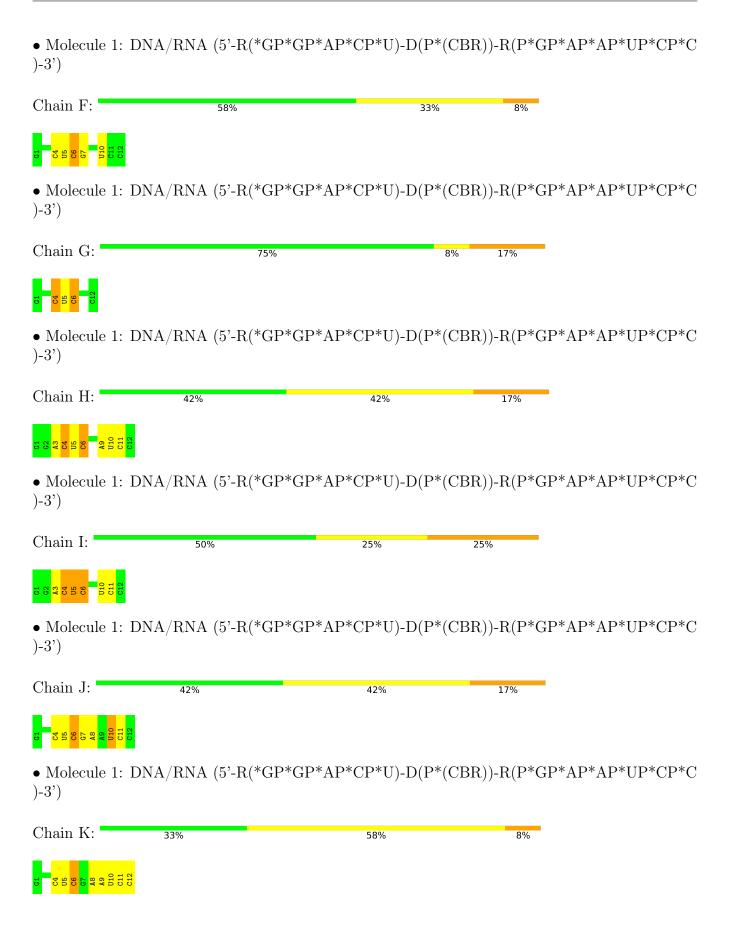




)-3')



• Molecule 1: DNA/RNA (5'-R(*GP*GP*AP*CP*U)-D(P*(CBR))-R(P*GP*AP*AP*UP*CP*C)





 \bullet Molecule 1: DNA/RNA (5'-R(*GP*GP*AP*CP*U)-D(P*(CBR))-R(P*GP*AP*AP*UP*CP*C)-3')

Chain L: 42% 42% 17%





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants	43.41Å 43.41Å 379.67Å	Donositon
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	42.19 - 2.79	Depositor
resolution (A)	42.19 - 2.79	EDS
% Data completeness	97.6 (42.19-2.79)	Depositor
(in resolution range)	98.9 (42.19-2.79)	EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.95 (at 2.81Å)	Xtriage
Refinement program	PHENIX 1.17.1	Depositor
R, R_{free}	0.220 , 0.291	Depositor
it, it free	0.220 , 0.291	DCC
R_{free} test set	1119 reflections (9.97%)	wwPDB-VP
Wilson B-factor (Å ²)	50.8	Xtriage
Anisotropy	0.798	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	$0.20 \; , 23.5$	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.063 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3045	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.99% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ 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: CBR, AG

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	Bond lengths		Bond angles	
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.72	0/259	1.26	2/402~(0.5%)	
1	В	0.62	0/259	1.16	0/402	
1	С	0.69	0/259	1.30	1/402 (0.2%)	
1	D	0.68	0/259	1.18	0/402	
1	Е	0.64	0/259	1.11	0/402	
1	F	0.75	0/259	1.33	1/402 (0.2%)	
1	G	0.61	0/259	1.11	1/402 (0.2%)	
1	Н	0.59	0/259	1.25	2/402~(0.5%)	
1	I	0.83	0/259	1.46	3/402 (0.7%)	
1	J	0.71	0/259	1.32	2/402~(0.5%)	
1	K	0.63	0/259	1.19	0/402	
1	L	0.54	0/259	1.12	1/402 (0.2%)	
All	All	0.67	0/3108	1.24	13/4824 (0.3%)	

There are no bond length outliers.

The worst 5 of 13 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	I	4	С	N1-C2-O2	7.47	123.38	118.90
1	Н	11	С	C6-N1-C2	-6.78	117.59	120.30
1	I	3	A	C5-C6-N1	6.08	120.74	117.70
1	A	8	A	N1-C6-N6	-6.02	114.99	118.60
1	I	4	С	N3-C2-O2	-5.77	117.86	121.90

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	252	0	131	3	0
1	В	252	0	130	5	0
1	С	252	0	128	3	0
1	D	252	0	130	5	0
1	Е	252	0	130	3	0
1	F	252	0	131	3	0
1	G	252	0	130	3	0
1	Н	252	0	131	5	0
1	I	252	0	131	4	0
1	J	252	0	131	5	0
1	K	252	0	131	8	0
1	L	252	0	129	9	0
2	A	2	0	0	0	0
2	В	1	0	0	0	0
2	С	1	0	0	0	0
2	D	3	0	0	0	0
2	Е	2	0	0	0	0
2	F	1	0	0	0	0
2	G	2	0	0	0	0
2	Н	2	0	0	0	0
2	I	1	0	0	0	0
2	J	2	0	0	0	0
2	K	1	0	0	0	0
2	L	3	0	0	0	0
All	All	3045	0	1563	51	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 13.

The worst 5 of 51 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:C:8:A:N6	1:D:5:U:O4	2.05	0.88
1:E:3:A:N6	1:F:10:U:O4	2.16	0.73
1:J:4:C:H2'	1:J:5:U:C6	2.33	0.63



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Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:K:10:U:H2'	1:K:11:C:C6	2.32	0.63
1:K:10:U:H2'	1:K:11:C:H6	1.67	0.59

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein molecules in this entry.

5.3.2 Protein sidechains (i)

There are no protein molecules in this entry.

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	10/12~(83%)	2 (20%)	0
1	В	10/12 (83%)	1 (10%)	0
1	С	10/12 (83%)	1 (10%)	0
1	D	10/12 (83%)	1 (10%)	0
1	Е	10/12~(83%)	0	0
1	F	10/12 (83%)	0	0
1	G	10/12 (83%)	0	0
1	Н	10/12~(83%)	0	0
1	I	10/12 (83%)	1 (10%)	0
1	J	10/12~(83%)	0	0
1	K	10/12~(83%)	1 (10%)	0
1	L	10/12 (83%)	0	0
All	All	120/144~(83%)	7 (5%)	0

5 of 7 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	3	A
1	A	12	С
1	В	10	U
1	С	12	С



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Mol	Chain	Res	Type
1	D	10	U

There are no RNA pucker outliers to report.

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

12 non-standard protein/DNA/RNA residues 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).

Mal	Т	Clasica	Das	T : 1-	Во	ond leng	ths	В	ond ang	les
Mol	Type	Chain	Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CBR	G	6	1	15,21,22	1.57	1 (6%)	18,30,33	1.18	3 (16%)
1	CBR	В	6	1	15,21,22	1.84	3 (20%)	18,30,33	1.38	2 (11%)
1	CBR	С	6	1	15,21,22	1.54	3 (20%)	18,30,33	1.38	2 (11%)
1	CBR	F	6	1	15,21,22	1.36	1 (6%)	18,30,33	1.63	3 (16%)
1	CBR	L	6	1	15,21,22	1.43	1 (6%)	18,30,33	1.12	2 (11%)
1	CBR	I	6	1	15,21,22	1.77	3 (20%)	18,30,33	1.22	3 (16%)
1	CBR	D	6	1	15,21,22	2.02	4 (26%)	18,30,33	1.41	2 (11%)
1	CBR	Н	6	1	15,21,22	1.56	2 (13%)	18,30,33	1.55	3 (16%)
1	CBR	J	6	1	15,21,22	1.74	2 (13%)	18,30,33	1.28	3 (16%)
1	CBR	K	6	1	15,21,22	1.54	2 (13%)	18,30,33	1.13	3 (16%)
1	CBR	A	6	1	15,21,22	1.62	4 (26%)	18,30,33	1.47	4 (22%)
1	CBR	Е	6	1	15,21,22	1.68	2 (13%)	18,30,33	1.15	2 (11%)

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.

\mathbf{Mol}	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CBR	G	6	1	-	0/4/21/22	0/2/2/2
1	CBR	В	6	1	-	2/4/21/22	0/2/2/2



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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CBR	С	6	1	-	1/4/21/22	0/2/2/2
1	CBR	F	6	1	-	0/4/21/22	0/2/2/2
1	CBR	L	6	1	-	0/4/21/22	0/2/2/2
1	CBR	I	6	1	-	0/4/21/22	0/2/2/2
1	CBR	D	6	1	-	1/4/21/22	0/2/2/2
1	CBR	Н	6	1	-	0/4/21/22	0/2/2/2
1	CBR	J	6	1	-	0/4/21/22	0/2/2/2
1	CBR	K	6	1	-	0/4/21/22	0/2/2/2
1	CBR	A	6	1	-	0/4/21/22	0/2/2/2
1	CBR	Ε	6	1	-	0/4/21/22	0/2/2/2

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
1	В	6	CBR	O5'-C5'	-5.77	1.30	1.44
1	I	6	CBR	O5'-C5'	-5.10	1.32	1.44
1	D	6	CBR	O5'-C5'	-4.93	1.32	1.44
1	Е	6	CBR	O5'-C5'	-4.80	1.33	1.44
1	J	6	CBR	O5'-C5'	-4.70	1.33	1.44

The worst 5 of 32 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
1	F	6	CBR	C5-C4-N4	-4.43	119.27	122.94
1	Н	6	CBR	C5-C4-N4	-3.59	119.97	122.94
1	В	6	CBR	C5-C4-N4	-3.44	120.09	122.94
1	D	6	CBR	BR-C5-C4	3.27	123.42	120.15
1	С	6	CBR	C5-C4-N4	-2.95	120.50	122.94

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	В	6	CBR	C3'-C4'-C5'-O5'
1	В	6	CBR	O4'-C4'-C5'-O5'
1	D	6	CBR	O4'-C4'-C5'-O5'
1	С	6	CBR	C3'-C4'-C5'-O5'

There are no ring outliers.

9 monomers are involved in 12 short contacts:



Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	6	CBR	1	0
1	F	6	CBR	1	0
1	L	6	CBR	3	0
1	I	6	CBR	1	0
1	D	6	CBR	1	0
1	Н	6	CBR	1	0
1	J	6	CBR	2	0
1	K	6	CBR	1	0
1	Е	6	CBR	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 21 ligands modelled in this entry, 21 are monoatomic - leaving 0 for Mogul analysis.

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.

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>	7	#RSR	ZZ>2	$OWAB(Å^2)$	Q < 0.9
1	A	11/12 (91%)	-0.41	0	100	100	34, 44, 53, 67	0
1	В	11/12 (91%)	-0.41	0	100	100	38, 40, 67, 73	0
1	С	11/12 (91%)	-0.31	0	100	100	37, 49, 62, 62	0
1	D	11/12 (91%)	-0.24	0	100	100	41, 50, 58, 61	0
1	E	11/12 (91%)	-0.75	0	100	100	30, 36, 47, 52	0
1	F	11/12 (91%)	-0.58	0	100	100	29, 40, 49, 51	0
1	G	11/12 (91%)	-0.65	0	100	100	35, 39, 51, 55	0
1	Н	11/12 (91%)	-0.42	0	100	100	41, 50, 56, 59	0
1	I	11/12 (91%)	-0.59	0	100	100	29, 32, 37, 39	0
1	J	11/12 (91%)	-0.62	0	100	100	28, 33, 38, 38	0
1	K	11/12 (91%)	-0.42	0	100	100	30, 42, 79, 80	0
1	L	11/12 (91%)	-0.56	0	100	100	34, 51, 67, 71	0
All	All	132/144 (91%)	-0.50	0	100	100	28, 43, 67, 80	0

There are no RSRZ outliers to report.

6.2 Non-standard residues in protein, DNA, RNA chains (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.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	CBR	D	6	20/21	0.84	0.19	41,52,73,87	0
1	CBR	K	6	20/21	0.89	0.16	56,77,86,87	0
1	CBR	С	6	20/21	0.90	0.15	45,57,75,78	0



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
1	CBR	L	6	20/21	0.93	0.14	50,63,71,73	0
1	CBR	Н	6	20/21	0.94	0.14	38,44,52,61	0
1	CBR	J	6	20/21	0.94	0.15	22,30,41,58	0
1	CBR	A	6	20/21	0.94	0.14	37,45,57,66	0
1	CBR	G	6	20/21	0.94	0.13	42,54,63,72	0
1	CBR	В	6	20/21	0.95	0.12	40,51,69,72	0
1	CBR	I	6	20/21	0.96	0.13	23,28,31,46	0
1	CBR	F	6	20/21	0.96	0.13	37,43,61,63	0
1	CBR	Е	6	20/21	0.97	0.11	25,29,42,50	0

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.

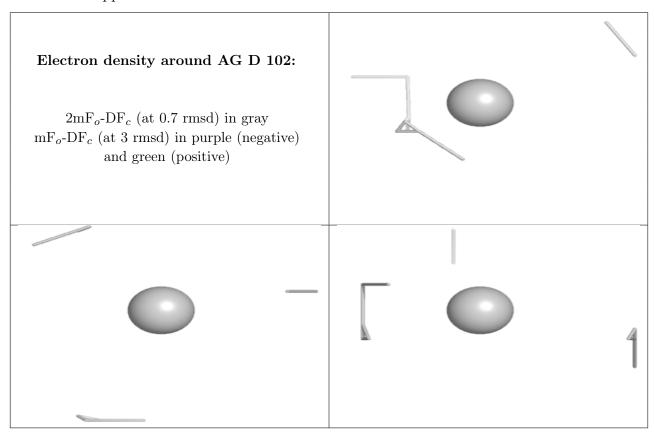
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	AG	D	102	1/1	0.89	0.07	55,55,55,55	1
2	AG	L	103	1/1	0.92	0.06	60,60,60,60	1
2	AG	J	102	1/1	0.94	0.07	41,41,41,41	1
2	AG	K	101	1/1	0.94	0.04	53,53,53,53	1
2	AG	Е	101	1/1	0.94	0.06	44,44,44,44	0
2	AG	G	102	1/1	0.95	0.09	66,66,66,66	1
2	AG	Н	102	1/1	0.96	0.04	49,49,49,49	1
2	AG	С	101	1/1	0.97	0.03	63,63,63,63	1
2	AG	L	101	1/1	0.97	0.07	56,56,56,56	0
2	AG	D	103	1/1	0.97	0.06	47,47,47,47	1
2	AG	Е	102	1/1	0.98	0.04	50,50,50,50	1
2	AG	A	101	1/1	0.98	0.06	51,51,51,51	0
2	AG	Н	101	1/1	0.98	0.06	48,48,48,48	0
2	AG	В	101	1/1	0.98	0.06	61,61,61,61	0
2	AG	J	101	1/1	0.99	0.08	40,40,40,40	0
2	AG	A	102	1/1	0.99	0.03	64,64,64,64	0
2	AG	D	101	1/1	0.99	0.07	47,47,47,47	0
2	AG	G	101	1/1	0.99	0.04	55,55,55,55	0
2	AG	L	102	1/1	0.99	0.04	36,36,36,36	1



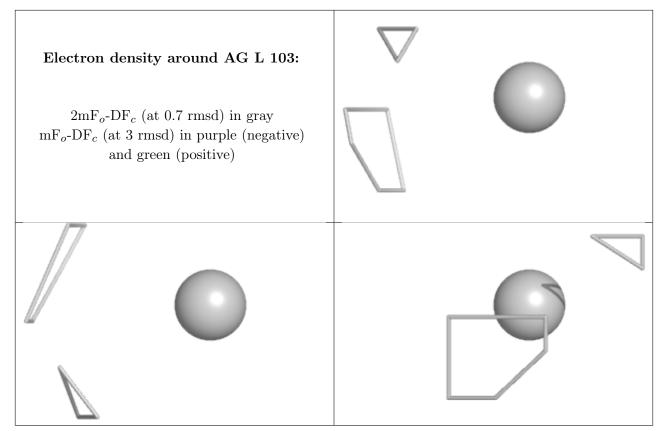
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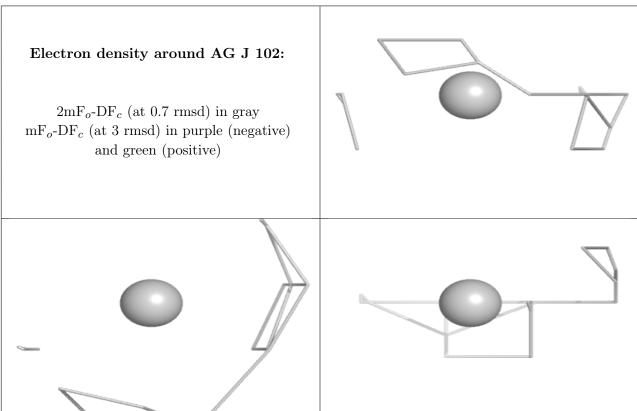
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	AG	I	101	1/1	0.99	0.04	36,36,36,36	0
2	AG	F	101	1/1	1.00	0.05	46,46,46,46	0

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.

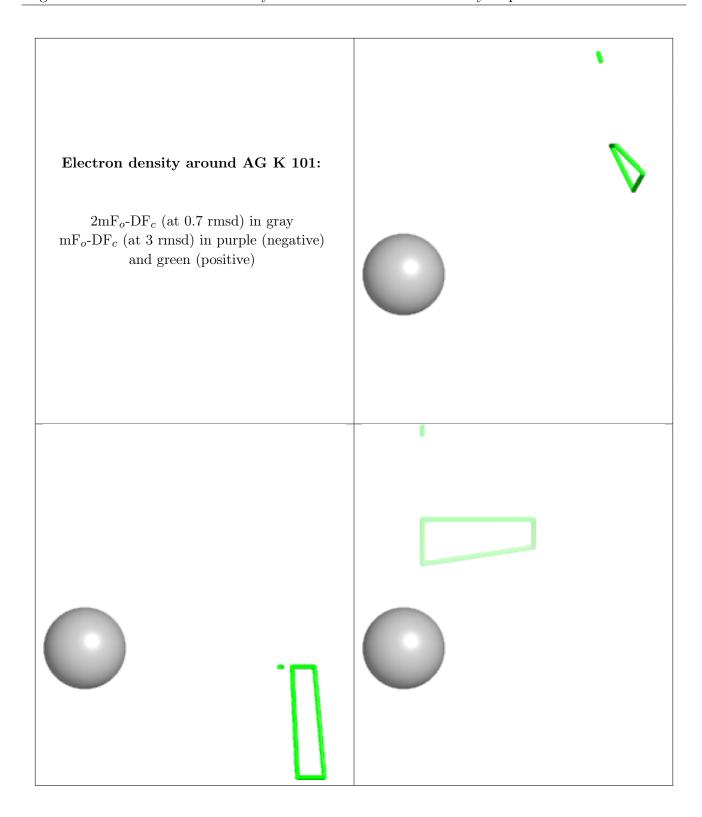




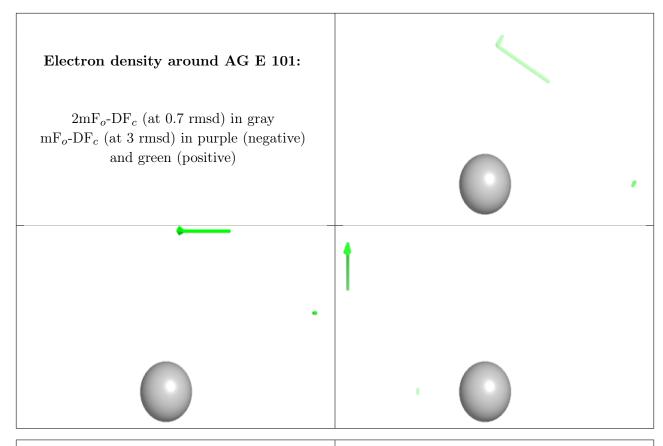






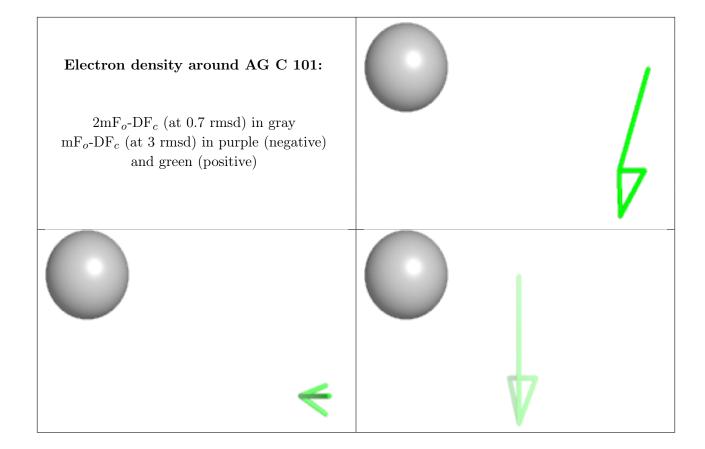




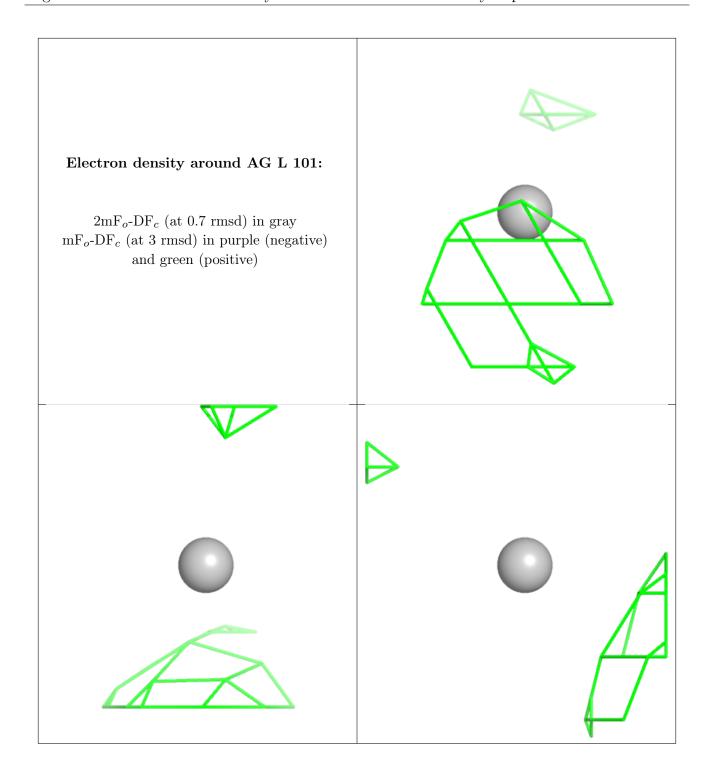




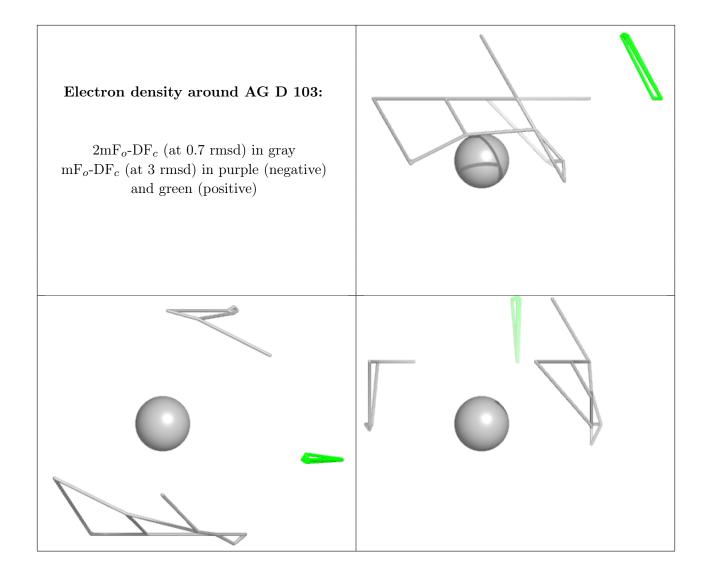
Electron density around AG H 102: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)



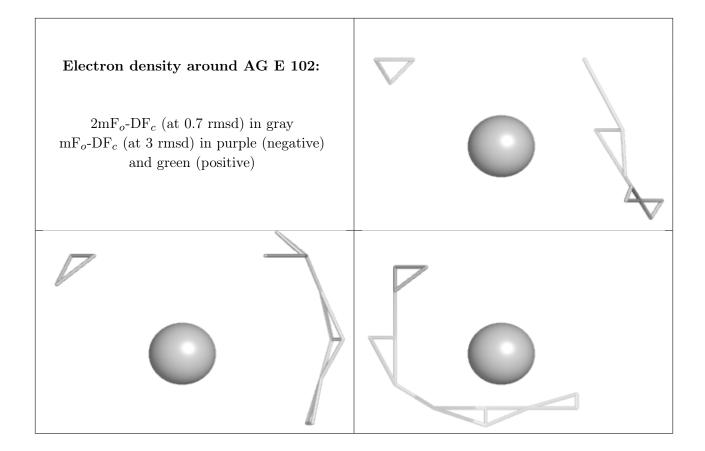




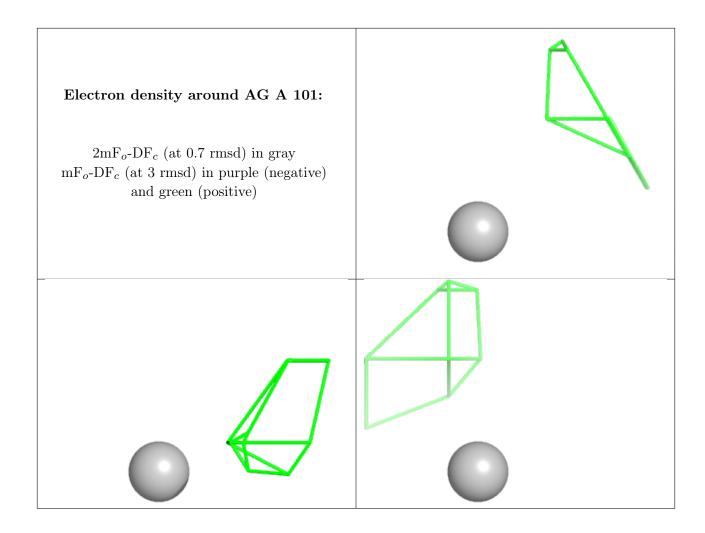




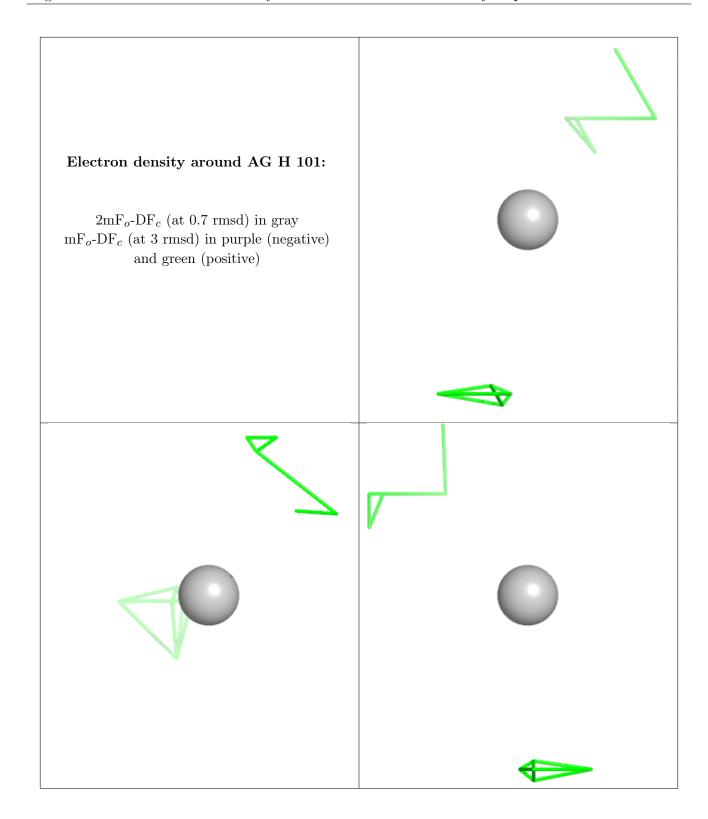




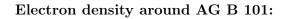




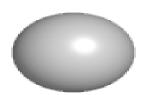




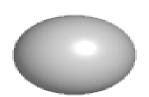




 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)







Electron density around AG J 101:

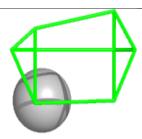
 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

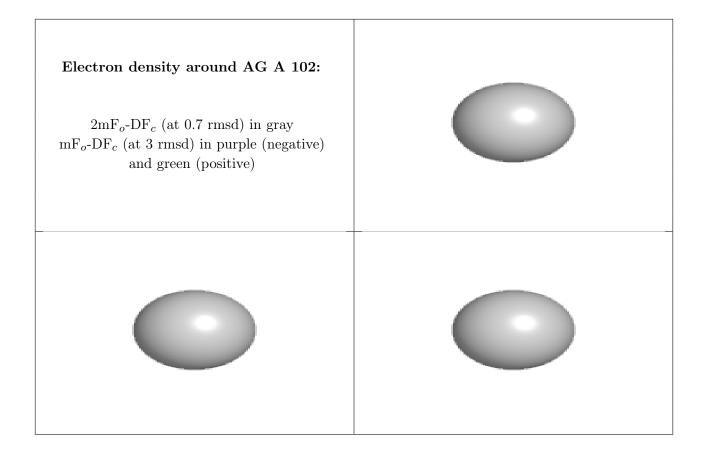




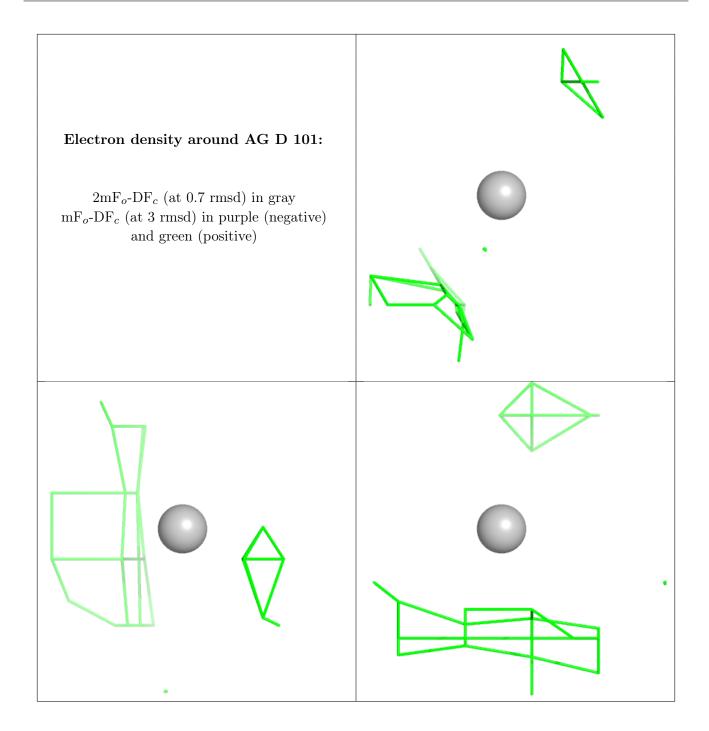




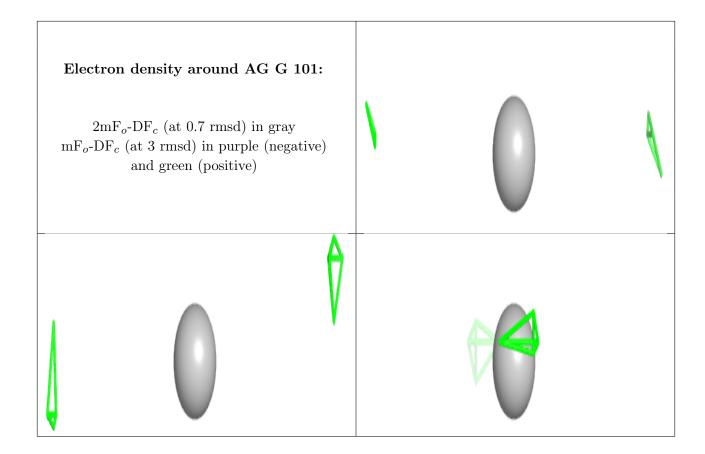




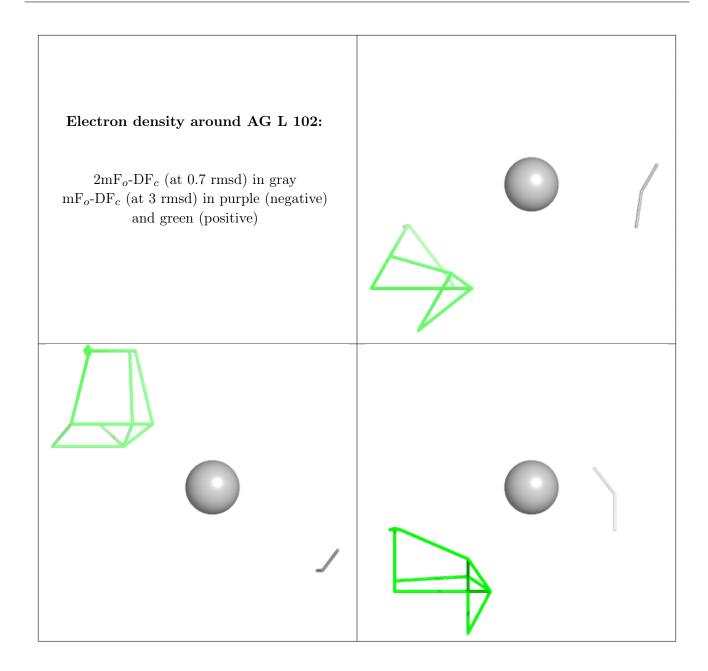




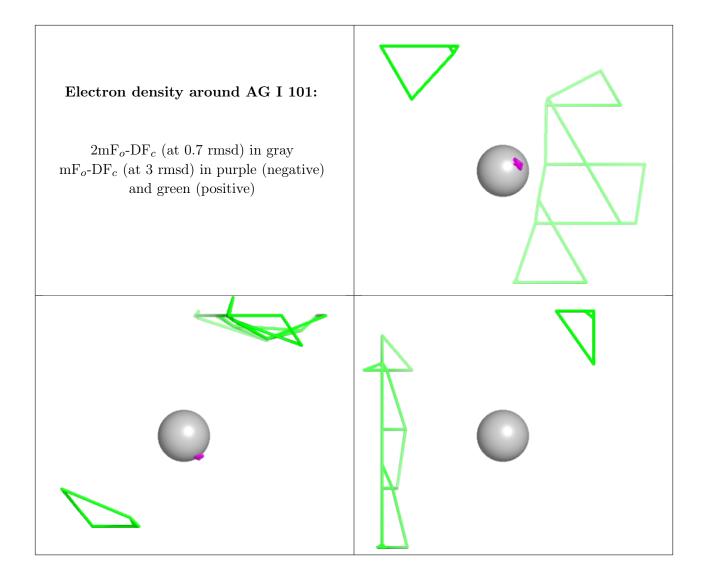




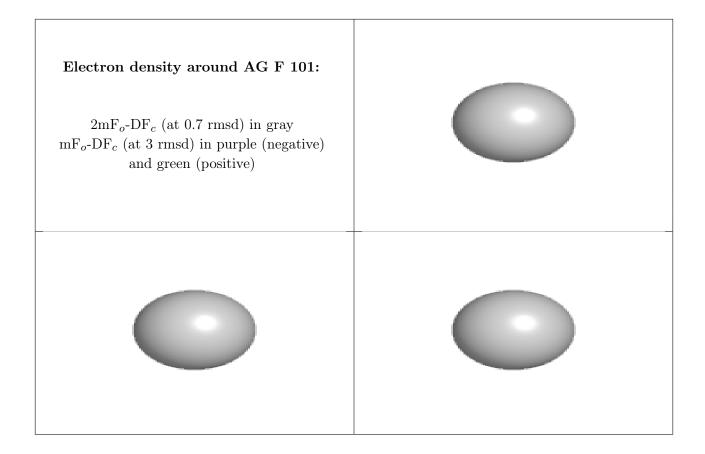












6.5 Other polymers (i)

There are no such residues in this entry.

