



wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 21, 2023 – 08:02 PM JST

PDB ID : 7WC8
Title : Crystal structure of serotonin 2A receptor in complex with lumateperone
Authors : Cao, D.; Yu, J.; Wang, H.; Luo, Z.; Liu, X.; He, L.; Qi, J.; Fan, L.; Tang, L.;
Chen, Z.; Li, J.; Cheng, J.; Wang, S.
Deposited on : 2021-12-18
Resolution : 2.45 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 : 4.02b-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

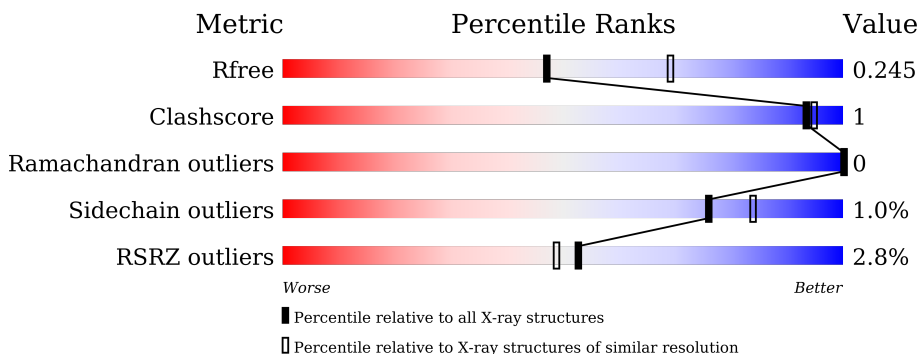
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.45 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1544 (2.48-2.44)
Clashscore	141614	1613 (2.48-2.44)
Ramachandran outliers	138981	1598 (2.48-2.44)
Sidechain outliers	138945	1598 (2.48-2.44)
RSRZ outliers	127900	1523 (2.48-2.44)

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	376	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	CLR	A	1217	-	-	-	X

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 3152 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 5-hydroxytryptamine receptor 2A,5-hydroxytryptamine receptor 2A,Soluble cytochrome b562.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	360	2798	1836	445	499	18	0	0	0

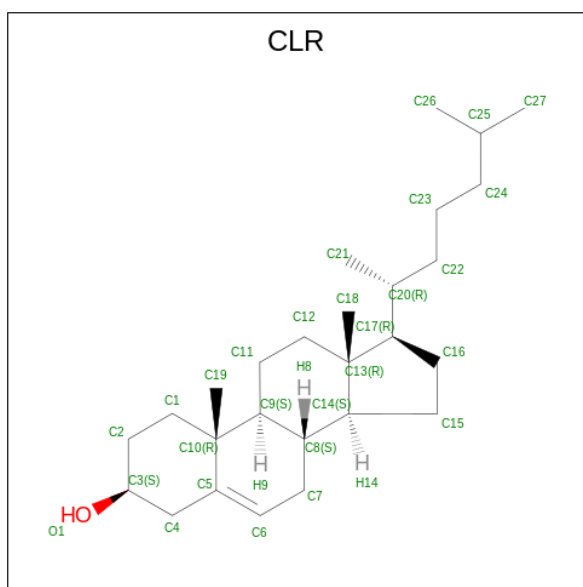
There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	162	LYS	SER	engineered mutation	UNP P28223
A	164	TRP	MET	engineered mutation	UNP P28223
A	372	ASN	SER	engineered mutation	UNP P28223

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

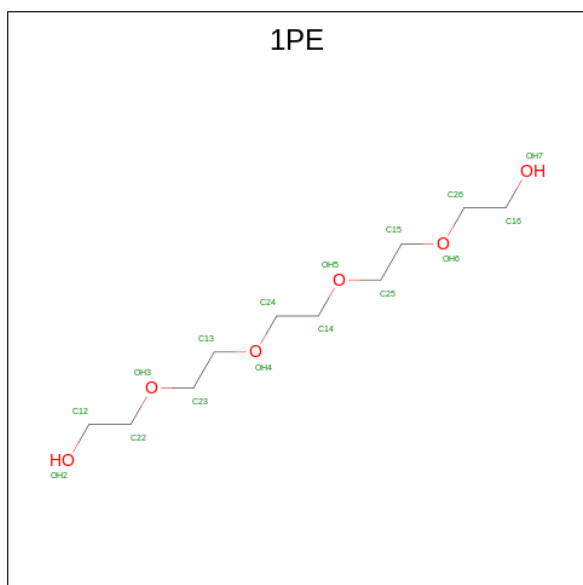
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Mg		
2	A	1	1	1	0	0

- Molecule 3 is CHOLESTEROL (three-letter code: CLR) (formula: C₂₇H₄₆O).



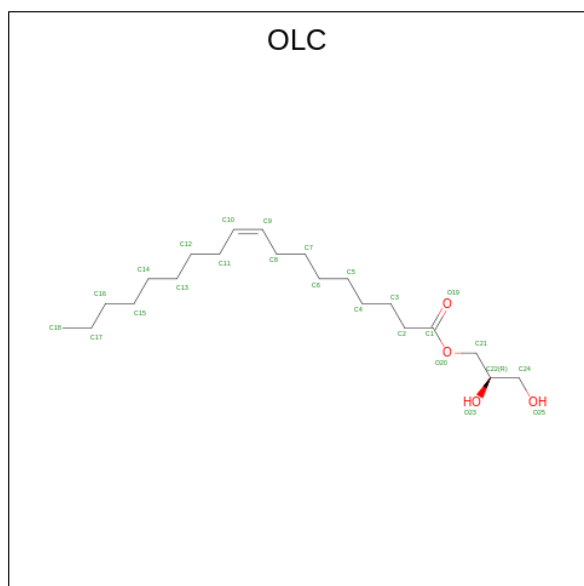
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 28 27 1	0	0
3	A	1	Total C O 21 20 1	0	0
3	A	1	Total C O 21 20 1	0	0
3	A	1	Total C O 28 27 1	0	0

- Molecule 4 is PENTAETHYLENE GLYCOL (three-letter code: 1PE) (formula: $C_{10}H_{22}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			16	10	6		

- Molecule 5 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (three-letter code: OLC) (formula: C₂₁H₄₀O₄).



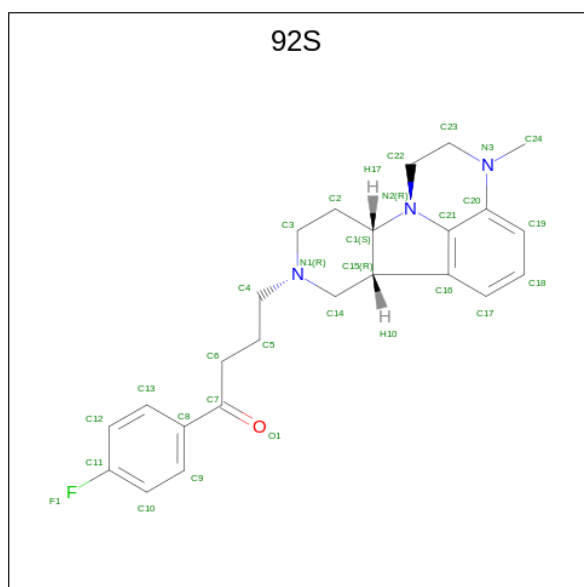
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			25	21	4		
5	A	1	Total	C	O	0	0
			20	16	4		
5	A	1	Total	C	O	0	0
			20	16	4		
5	A	1	Total	C	O	0	0
			15	11	4		
5	A	1	Total	C	O	0	0
			16	12	4		
5	A	1	Total	C	O	0	0
			15	11	4		
5	A	1	Total	C	O	0	0
			20	16	4		
5	A	1	Total	C	O	0	0
			14	10	4		
5	A	1	Total	C	O	0	0
			13	9	4		
5	A	1	Total	C	O	0	0
			25	21	4		

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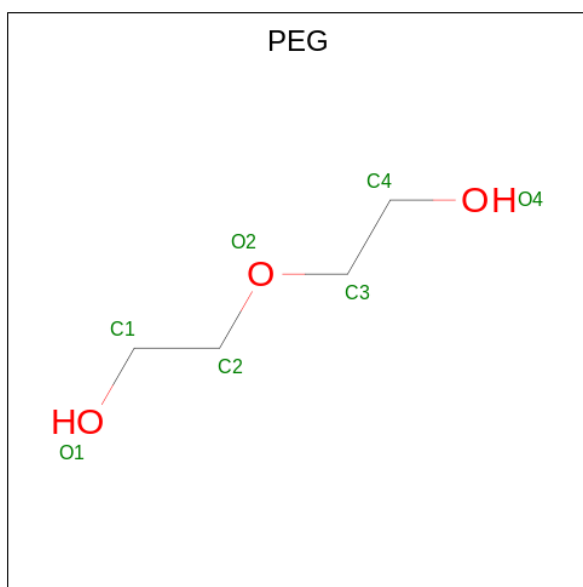
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			12	8	4		

- Molecule 6 is 1-(4-fluorophenyl)-4-[(10 {R},15 {S})-4-methyl-1,4,12-triazatetracyclo[7.6.1.0^{5,16}.0^{10,15}]]hexadeca-5,7,9(16)-trien-12-yl]butan-1-one (three-letter code: 92S) (formula: C₂₄H₂₈FN₃O) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	A	1	Total	C	F	N	O	0	0
			29	24	1	3	1		

- Molecule 7 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total C O 7 4 3	0	0

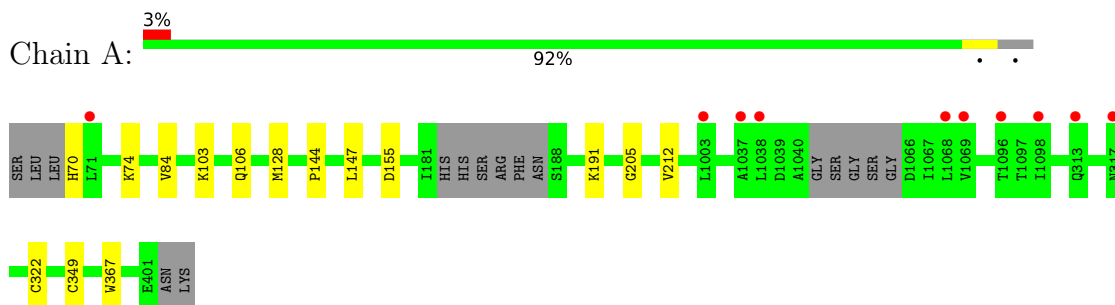
- Molecule 8 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	8	Total O 8 8	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: 5-hydroxytryptamine receptor 2A,5-hydroxytryptamine receptor 2A,Soluble cytochrome b562



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 2 21	Depositor
Cell constants a, b, c, α , β , γ	49.47Å 55.33Å 179.97Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.70 – 2.45 47.70 – 2.45	Depositor EDS
% Data completeness (in resolution range)	99.3 (47.70-2.45) 99.3 (47.70-2.45)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.28 (at 2.45Å)	Xtrriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.218 , 0.244 0.222 , 0.245	Depositor DCC
R_{free} test set	913 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	71.8	Xtrriage
Anisotropy	0.186	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 62.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3152	wwPDB-VP
Average B, all atoms (Å ²)	82.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.32% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: PEG, OLC, 1PE, CLR, MG, 92S

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	0.70	0/2852	0.82	0/3877

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	2798	0	2863	9	0
2	A	1	0	0	0	0
3	A	98	0	150	0	0
4	A	16	0	22	0	0
5	A	195	0	265	4	0
6	A	29	0	0	1	0
7	A	7	0	10	0	0
8	A	8	0	0	0	0
All	All	3152	0	3310	9	0

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

The worst 5 of 9 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:103:LYS:HA	1:A:106:GLN:HG2	1.80	0.64
1:A:349:CYS:SG	1:A:349:CYS:O	2.66	0.54
1:A:212:VAL:HG11	5:A:1212:OLC:H3	1.94	0.50
1:A:155:ASP:OD2	6:A:1207:92S:N1	2.45	0.49
1:A:205:GLY:HA3	5:A:1212:OLC:H11	1.98	0.46

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	354/376 (94%)	351 (99%)	3 (1%)	0	100 100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	302/324 (93%)	299 (99%)	3 (1%)	76 84

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	70	HIS
1	A	74	LYS
1	A	322	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	70	HIS

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 19 ligands modelled in this entry, 1 is 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	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	CLR	A	1217	-	31,31,31	0.44	0	48,48,48	0.87	1 (2%)
5	OLC	A	1206	-	19,19,24	0.33	0	20,20,25	0.34	0
5	OLC	A	1216	-	24,24,24	0.37	0	25,25,25	0.36	0
5	OLC	A	1204	-	24,24,24	0.28	0	25,25,25	0.49	0
5	OLC	A	1210	-	14,14,24	0.28	0	15,15,25	0.32	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	OLC	A	1212	-	19,19,24	0.41	0	20,20,25	0.36	0
5	OLC	A	1214	-	13,13,24	0.29	0	14,14,25	0.36	0
5	OLC	A	1209	-	15,15,24	0.41	0	16,16,25	0.51	0
5	OLC	A	1218	-	11,11,24	0.33	0	12,12,25	0.47	0
5	OLC	A	1205	-	19,19,24	0.36	0	20,20,25	0.54	0
5	OLC	A	1208	-	14,14,24	0.33	0	15,15,25	0.46	0
3	CLR	A	1213	-	24,24,31	0.39	0	37,39,48	0.95	1 (2%)
6	92S	A	1207	-	32,33,33	0.58	0	40,48,48	1.57	5 (12%)
3	CLR	A	1202	-	31,31,31	0.37	0	48,48,48	0.81	2 (4%)
7	PEG	A	1219	-	6,6,6	0.25	0	5,5,5	0.17	0
4	1PE	A	1203	-	15,15,15	0.34	0	14,14,14	0.39	0
5	OLC	A	1215	-	12,12,24	0.34	0	13,13,25	0.41	0
3	CLR	A	1211	-	24,24,31	0.43	0	37,39,48	0.76	1 (2%)

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.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CLR	A	1217	-	-	7/10/68/68	0/4/4/4
5	OLC	A	1206	-	-	9/19/19/24	-
5	OLC	A	1216	-	-	17/24/24/24	-
5	OLC	A	1204	-	-	12/24/24/24	-
5	OLC	A	1210	-	-	6/14/14/24	-
5	OLC	A	1212	-	-	11/19/19/24	-
5	OLC	A	1214	-	-	6/13/13/24	-
5	OLC	A	1209	-	-	5/15/15/24	-
5	OLC	A	1218	-	-	5/11/11/24	-
5	OLC	A	1205	-	-	6/19/19/24	-
5	OLC	A	1208	-	-	6/14/14/24	-
6	92S	A	1207	-	-	0/10/44/44	0/5/5/5
3	CLR	A	1213	-	-	-	0/4/4/4
3	CLR	A	1202	-	-	8/10/68/68	0/4/4/4
7	PEG	A	1219	-	-	1/4/4/4	-
4	1PE	A	1203	-	-	7/13/13/13	-
5	OLC	A	1215	-	-	7/12/12/24	-
3	CLR	A	1211	-	-	-	0/4/4/4

There are no bond length outliers.

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	1207	92S	C22-N2-C21	-6.29	110.49	120.08
3	A	1213	CLR	C20-C17-C13	3.65	122.92	115.89
6	A	1207	92S	C19-C20-N3	3.03	125.59	122.03
6	A	1207	92S	C2-C1-N2	-2.58	112.68	119.31
6	A	1207	92S	C15-C14-N1	2.35	114.30	110.63

There are no chirality outliers.

5 of 113 torsion outliers are listed below:

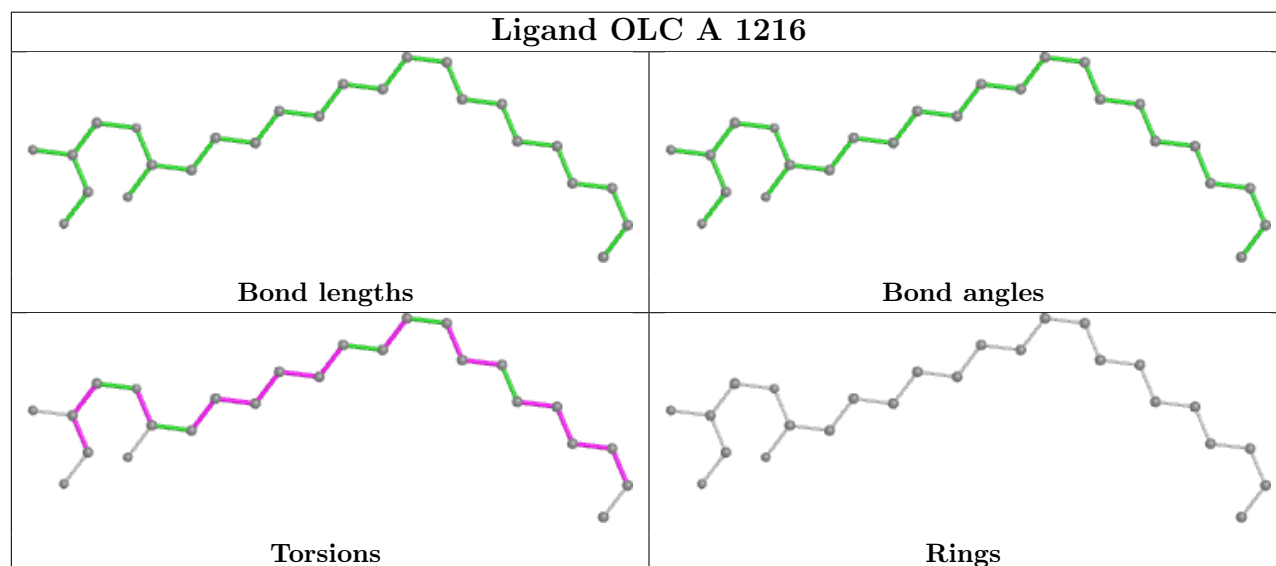
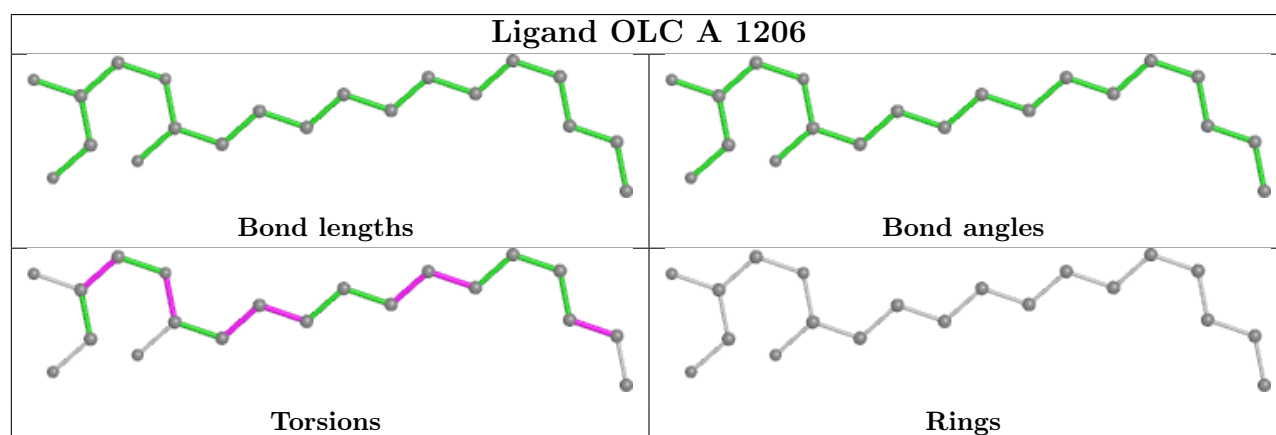
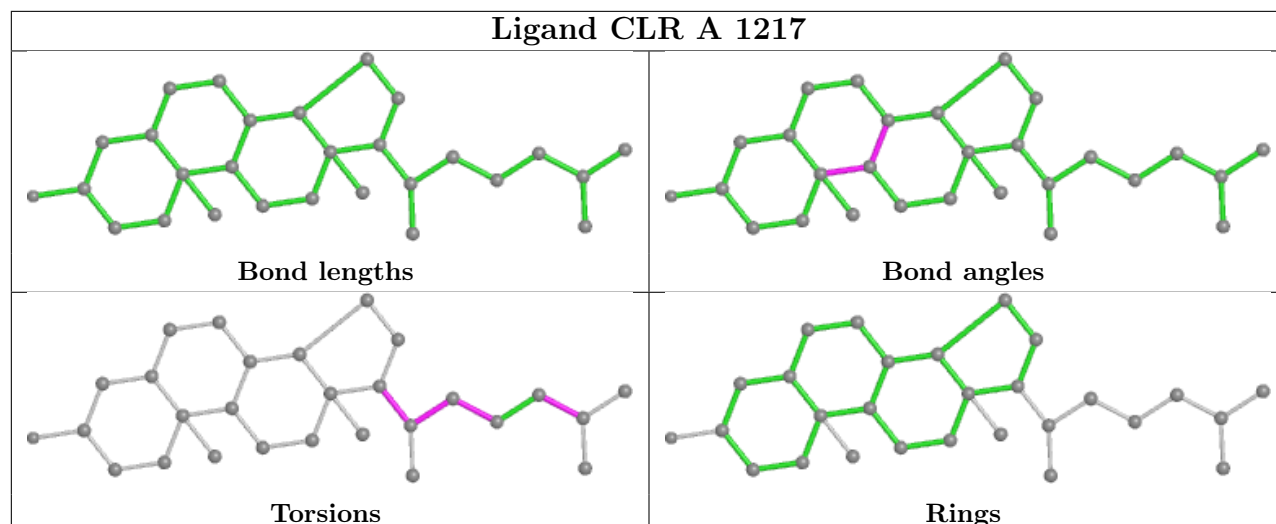
Mol	Chain	Res	Type	Atoms
3	A	1202	CLR	C13-C17-C20-C21
3	A	1202	CLR	C16-C17-C20-C22
5	A	1204	OLC	C21-C22-C24-O25
5	A	1204	OLC	O20-C21-C22-O23
5	A	1210	OLC	O20-C21-C22-C24

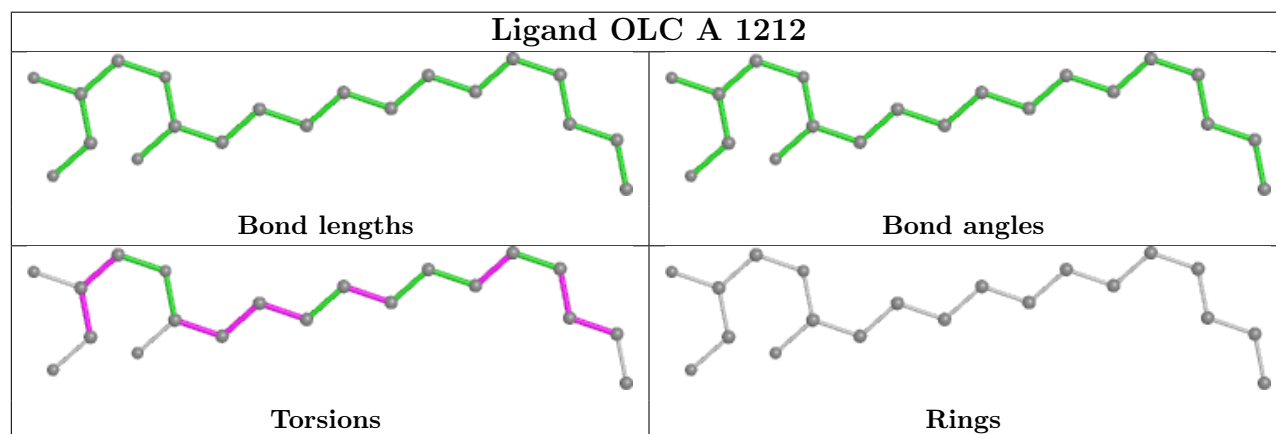
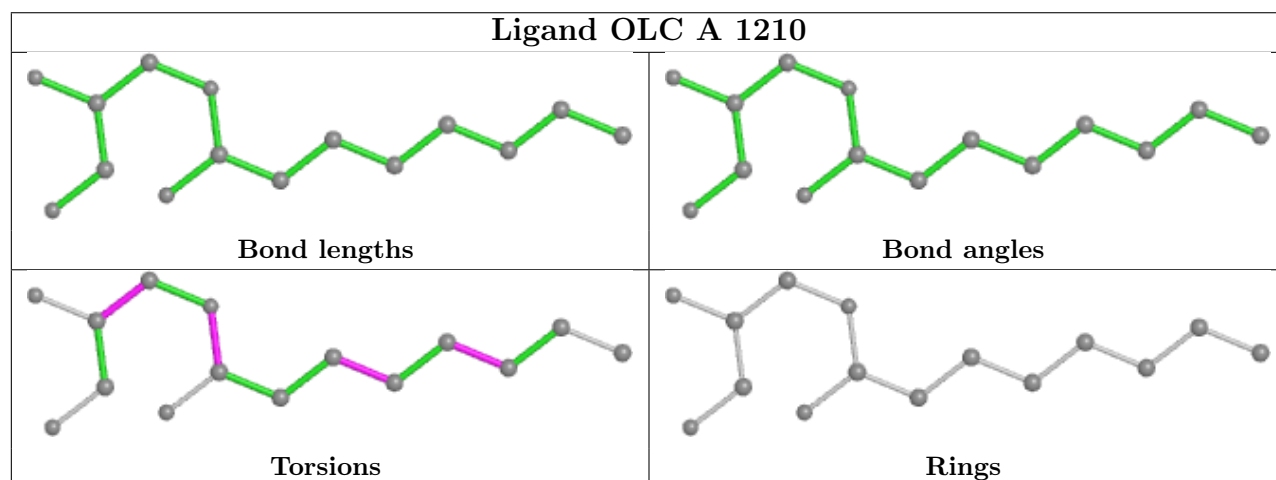
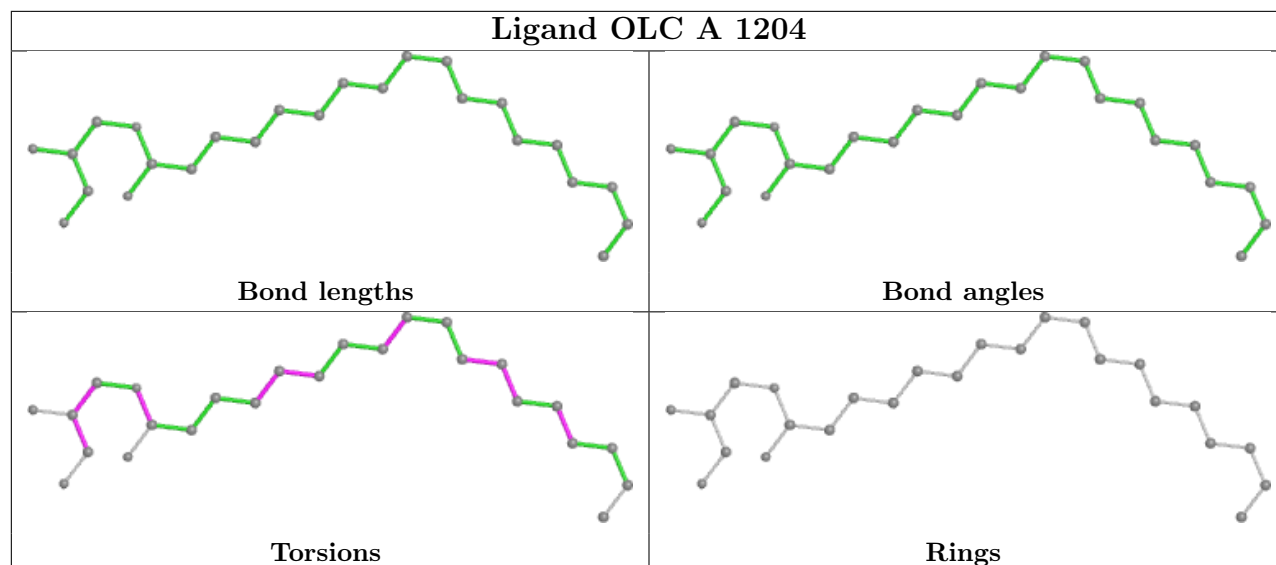
There are no ring outliers.

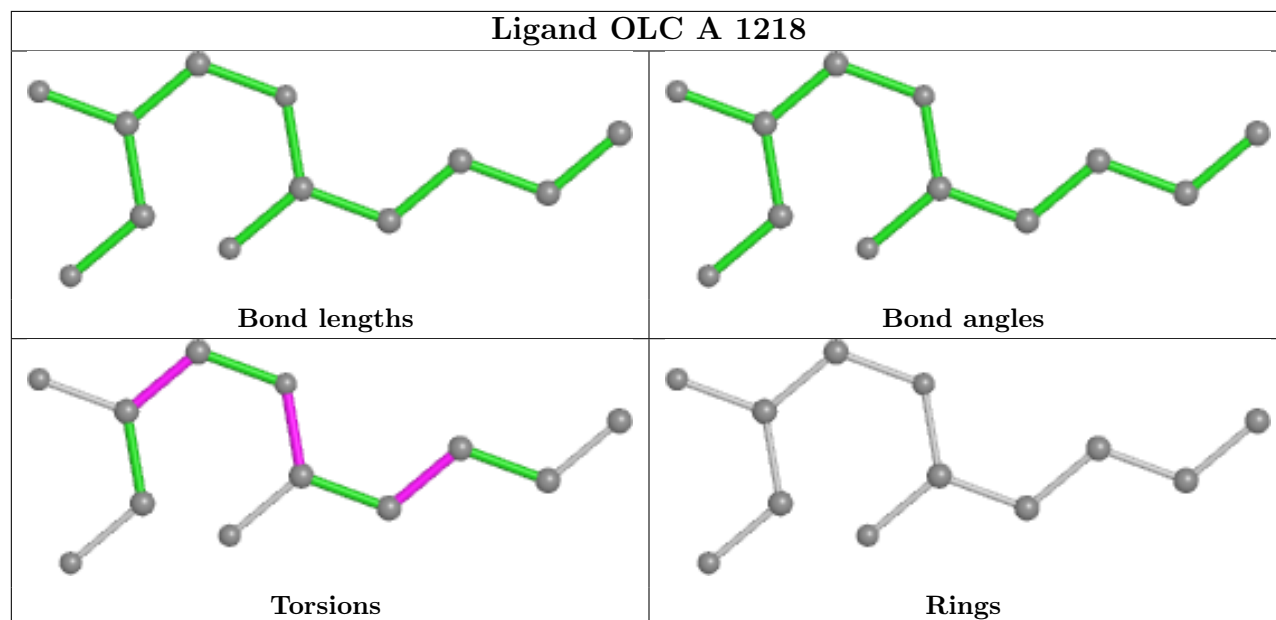
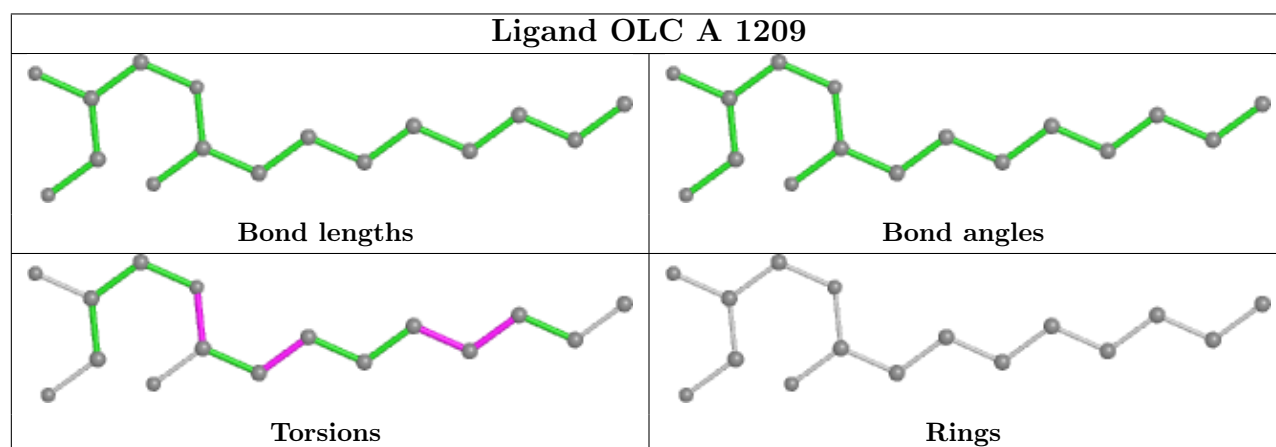
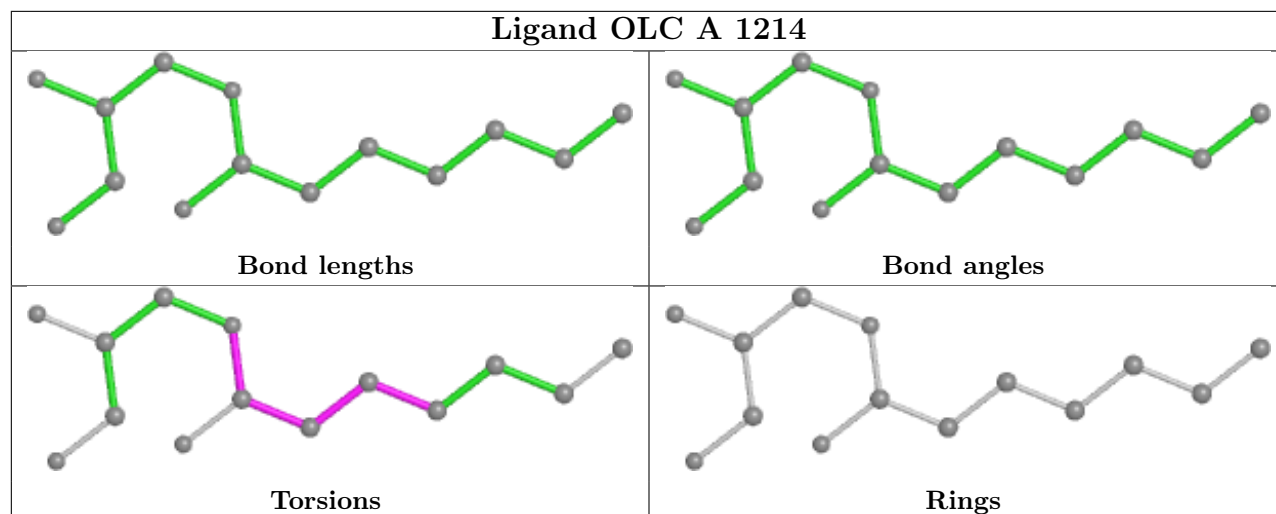
4 monomers are involved in 5 short contacts:

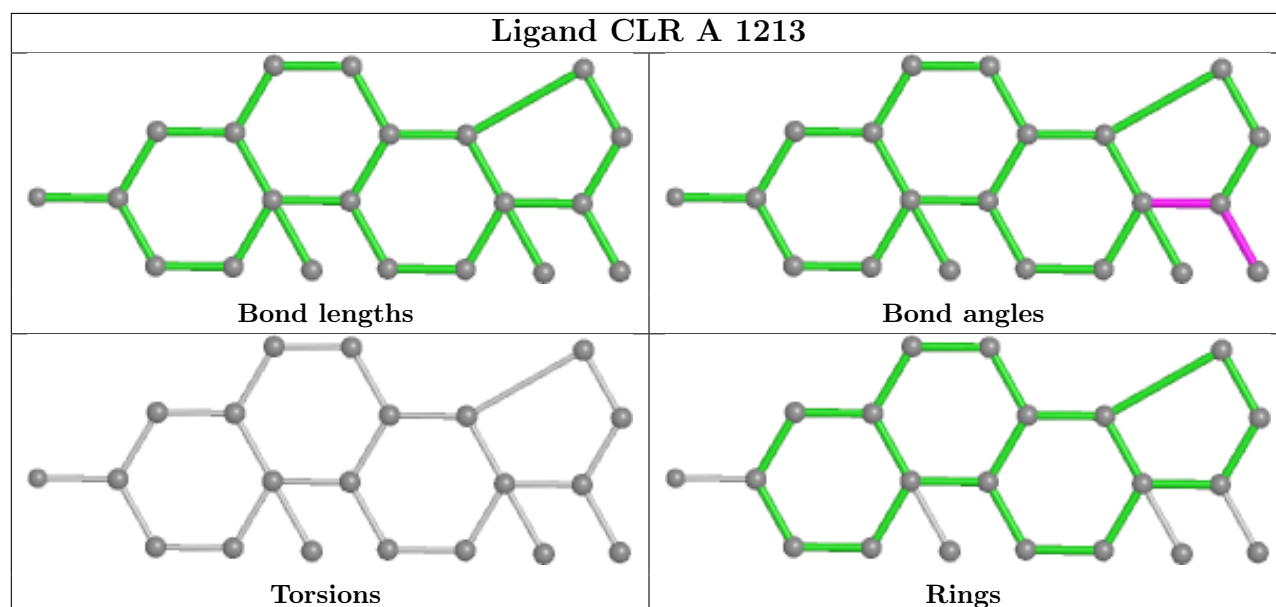
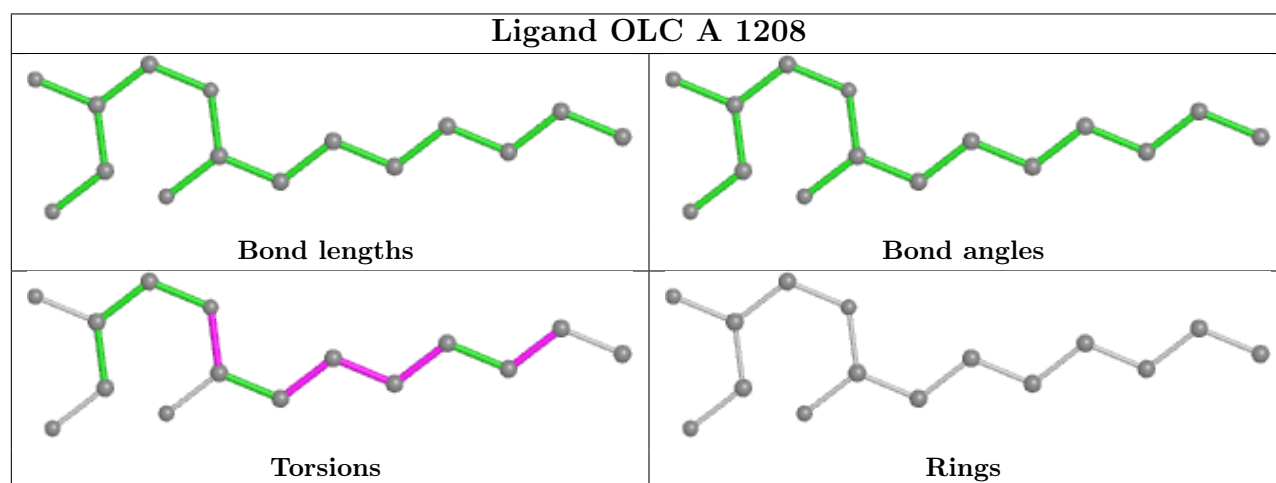
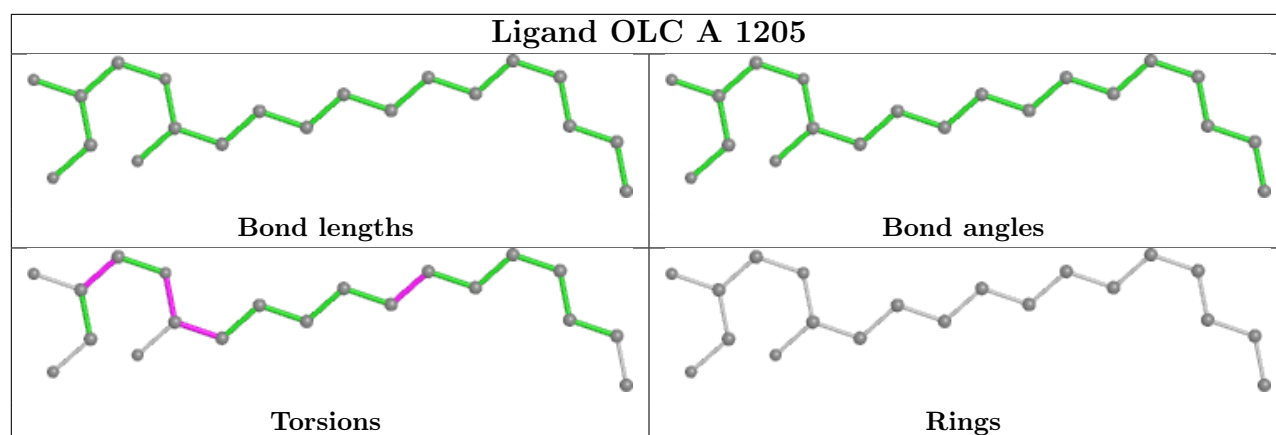
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	1206	OLC	1	0
5	A	1216	OLC	1	0
5	A	1212	OLC	2	0
6	A	1207	92S	1	0

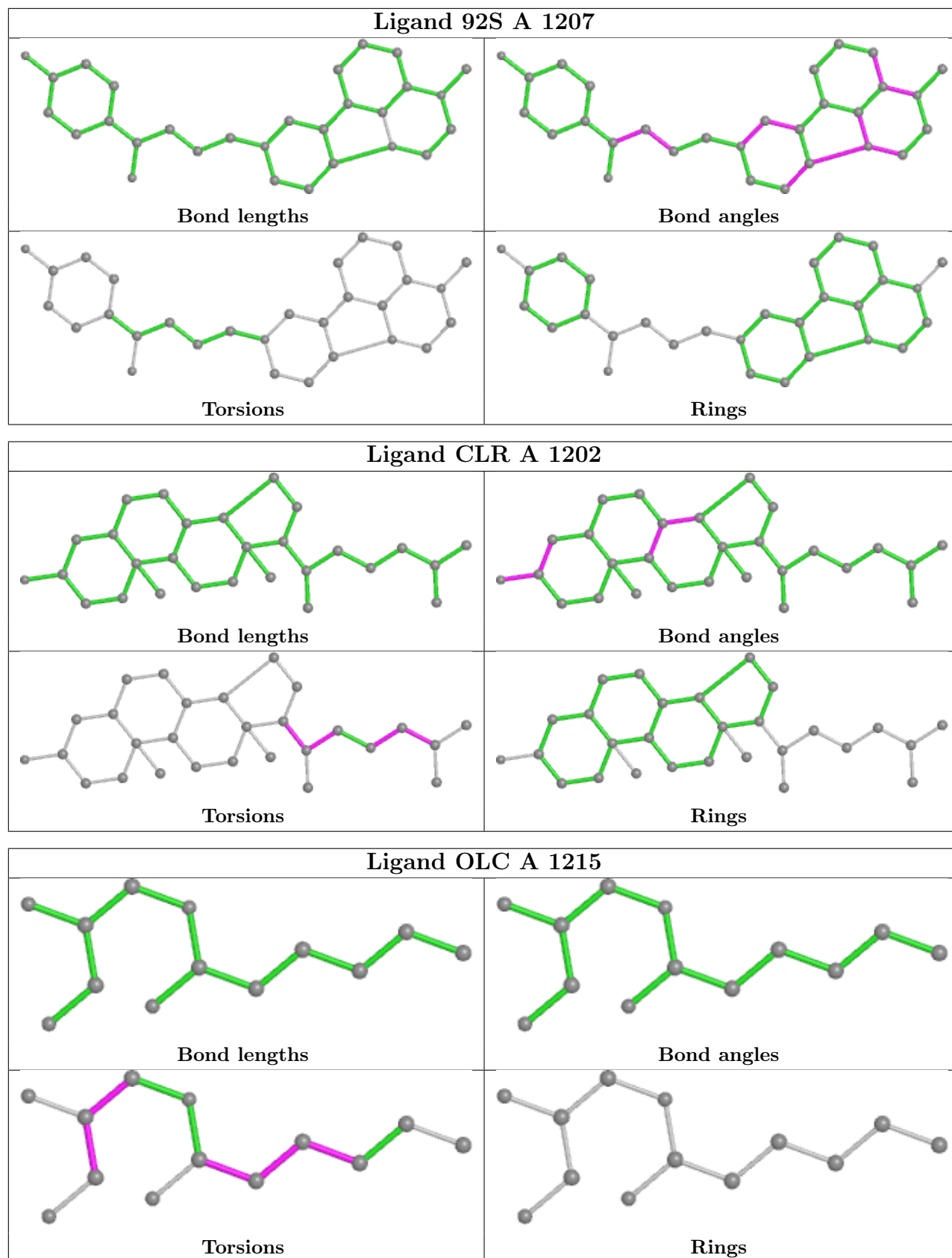
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

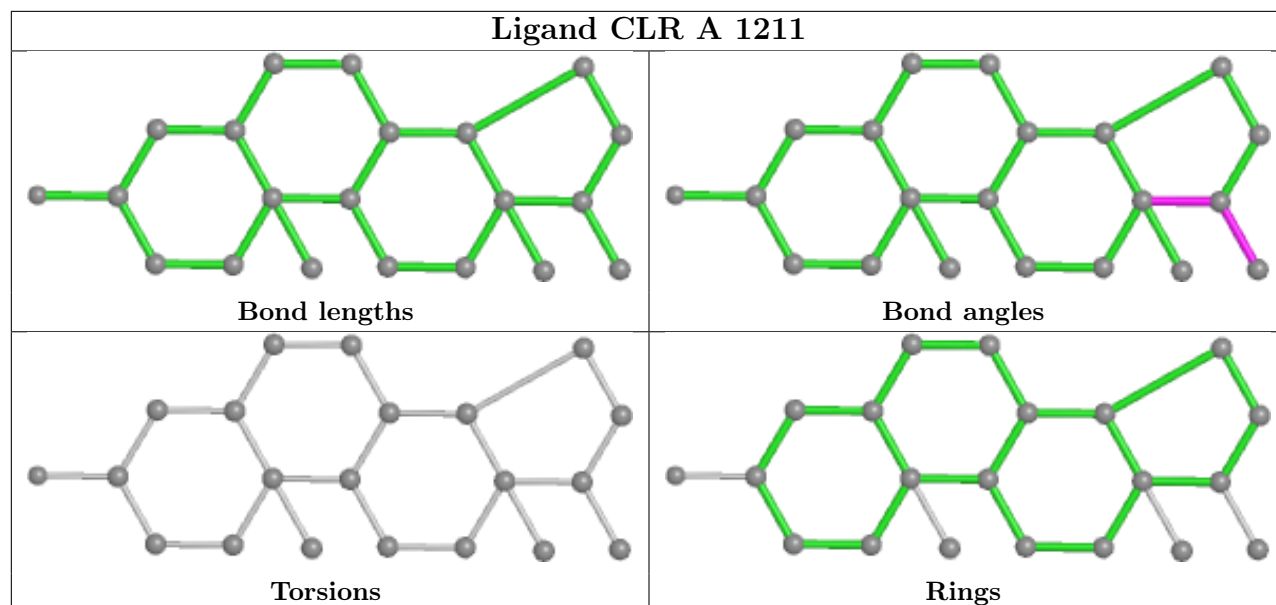












5.7 Other polymers [i](#)

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	360/376 (95%)	-0.06	10 (2%) 53 49	55, 73, 113, 168	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1037	ALA	3.7
1	A	1098	ILE	3.4
1	A	1038	LEU	3.2
1	A	1096	THR	3.1
1	A	317	ASN	2.7

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, 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.

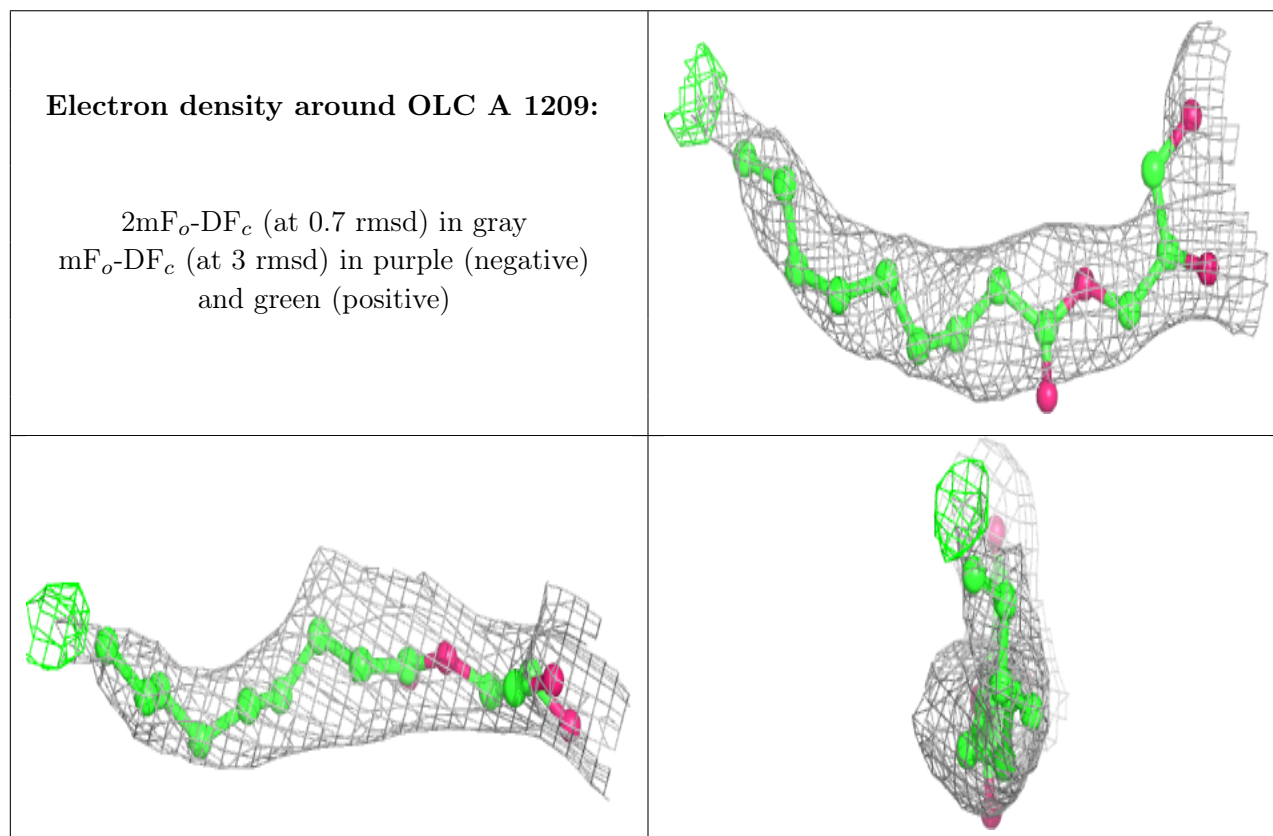
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	OLC	A	1209	16/25	0.59	0.22	93,110,131,136	0
5	OLC	A	1216	25/25	0.60	0.32	94,113,161,165	0

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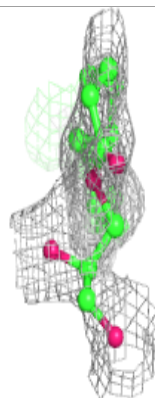
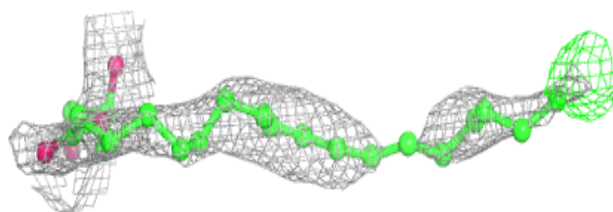
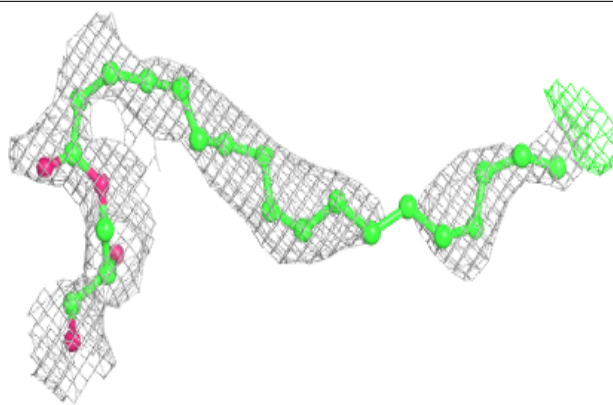
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	CLR	A	1217	28/28	0.65	0.44	87,127,156,162	0
5	OLC	A	1214	14/25	0.66	0.36	85,100,136,139	0
5	OLC	A	1206	20/25	0.66	0.29	81,107,142,147	0
5	OLC	A	1204	25/25	0.69	0.38	78,94,141,145	0
5	OLC	A	1210	15/25	0.69	0.24	88,118,130,130	0
5	OLC	A	1212	20/25	0.70	0.34	86,106,138,152	0
3	CLR	A	1202	28/28	0.74	0.32	94,142,167,171	0
5	OLC	A	1218	12/25	0.74	0.33	89,106,129,129	0
5	OLC	A	1205	20/25	0.77	0.24	70,85,133,139	0
4	1PE	A	1203	16/16	0.79	0.15	85,123,131,133	0
3	CLR	A	1213	21/28	0.80	0.36	107,139,149,159	0
3	CLR	A	1211	21/28	0.80	0.31	88,108,132,134	0
5	OLC	A	1208	15/25	0.85	0.14	88,108,140,140	0
5	OLC	A	1215	13/25	0.87	0.24	108,122,135,146	0
7	PEG	A	1219	7/7	0.91	0.20	91,92,107,122	0
6	92S	A	1207	29/29	0.95	0.12	54,64,71,79	0
2	MG	A	1201	1/1	0.97	0.18	35,35,35,35	1

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.

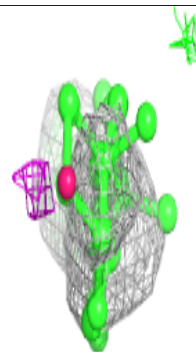
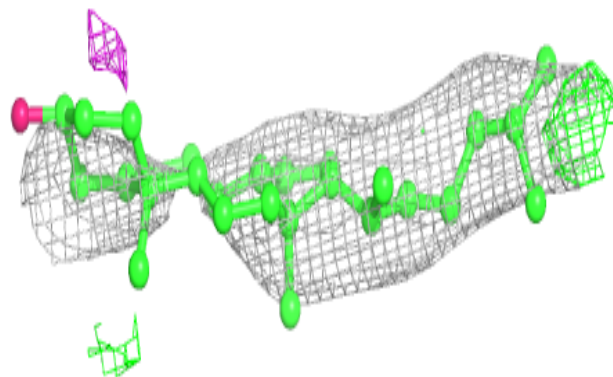
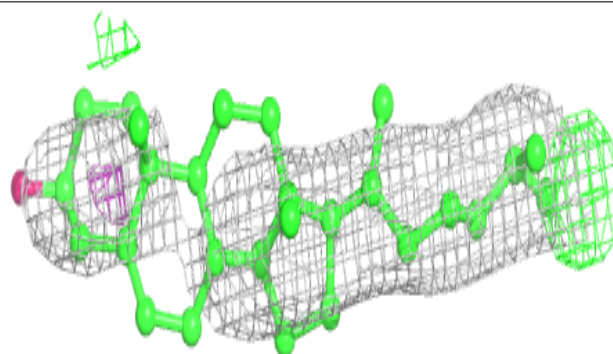


Electron density around OLC A 1216:

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

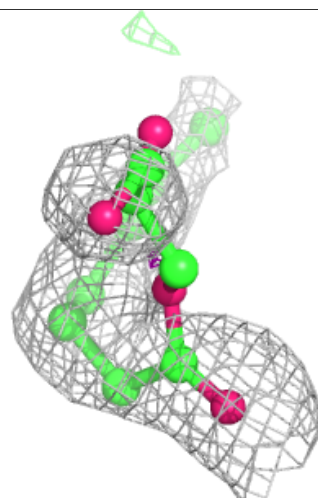
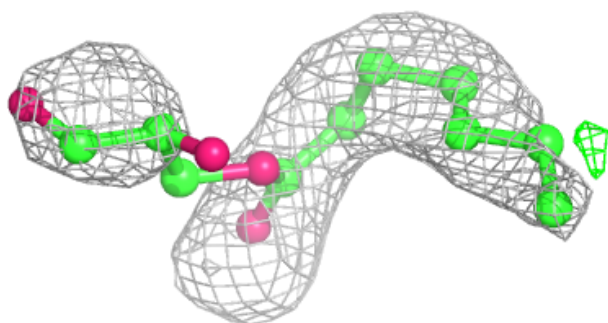
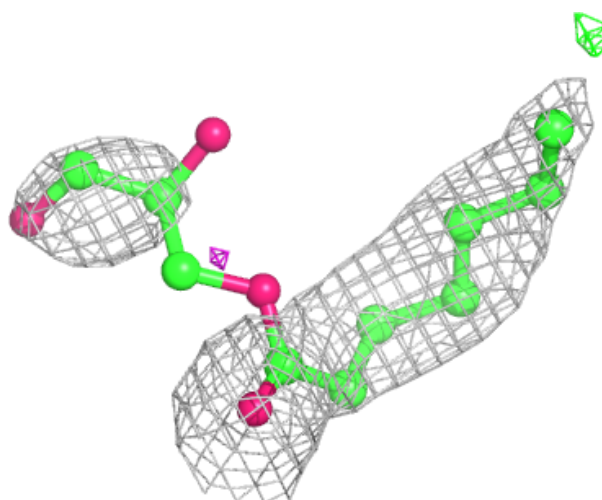
**Electron density around CLR A 1217:**

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



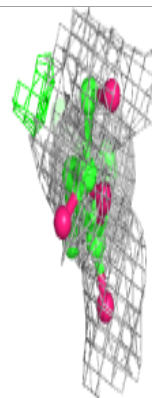
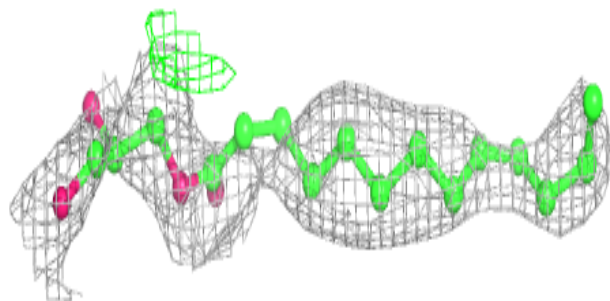
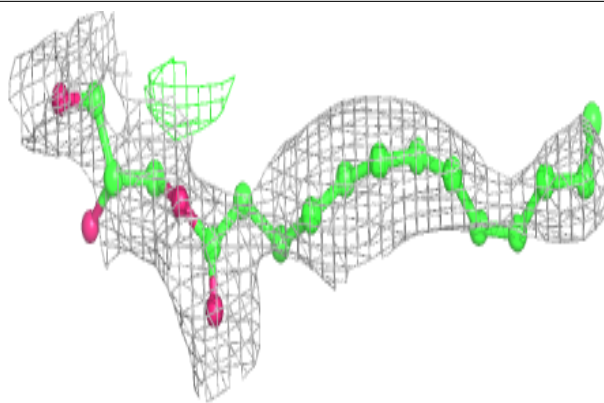
Electron density around OLC A 1214:

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

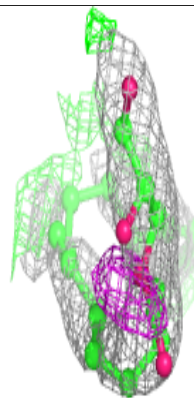
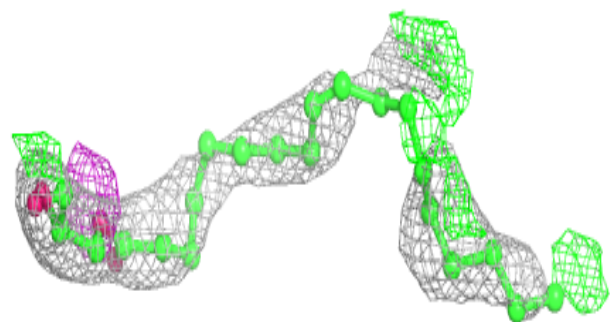
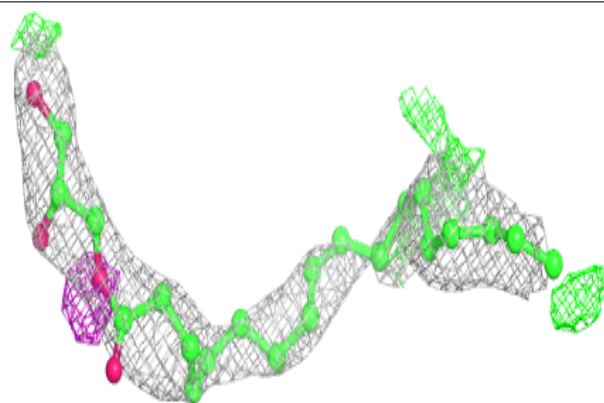


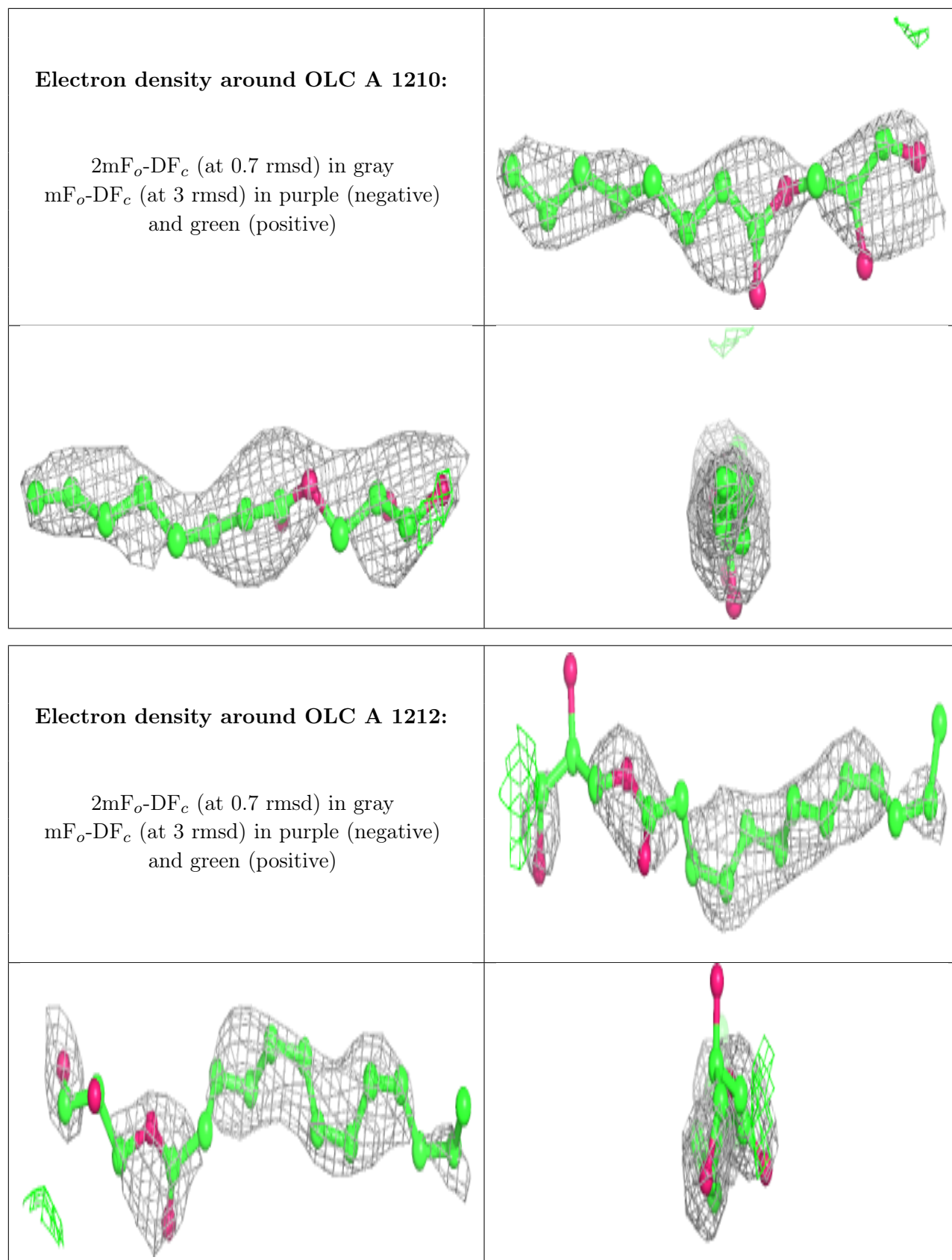
Electron density around OLC A 1206:

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

**Electron density around OLC A 1204:**

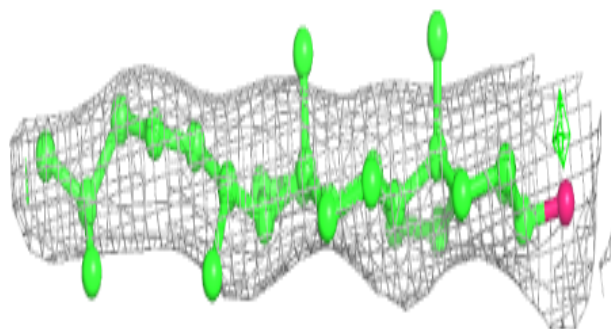
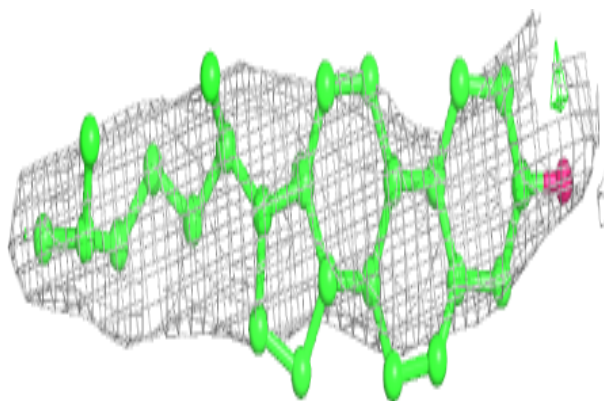
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



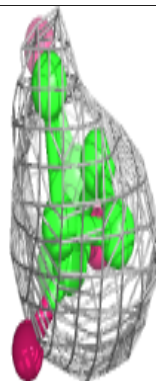
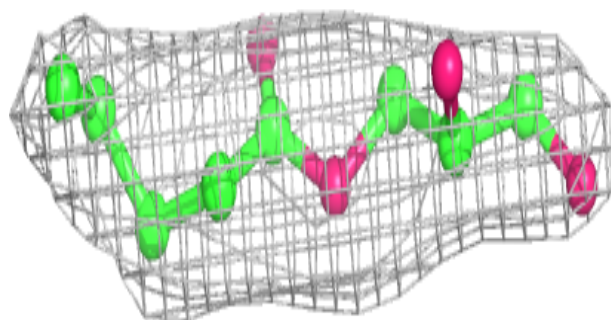
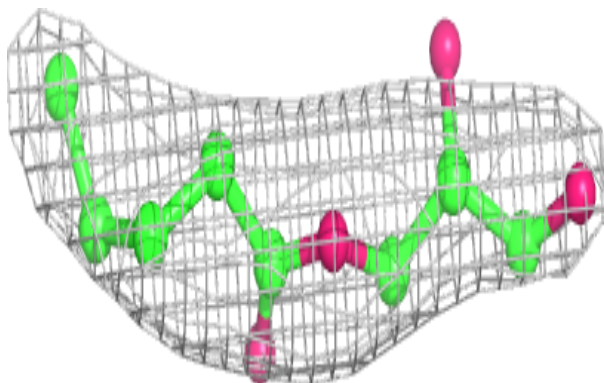


Electron density around CLR A 1202:

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

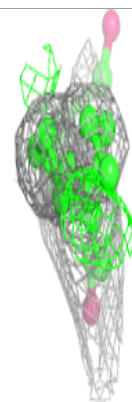
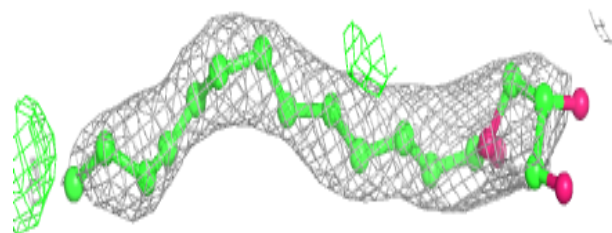
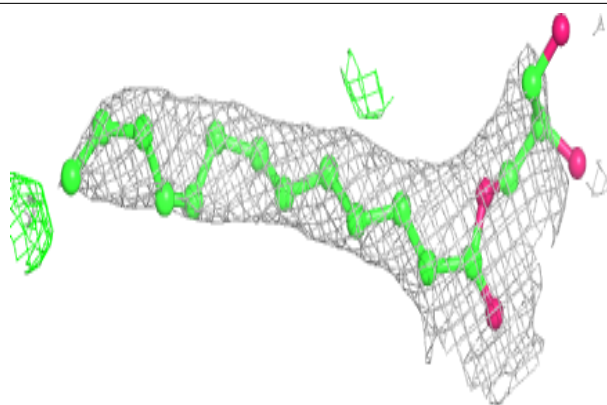
**Electron density around OLC A 1218:**

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

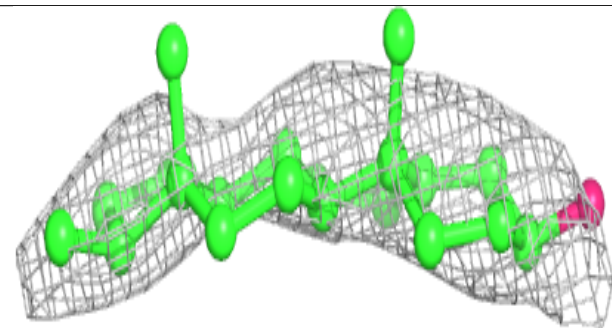
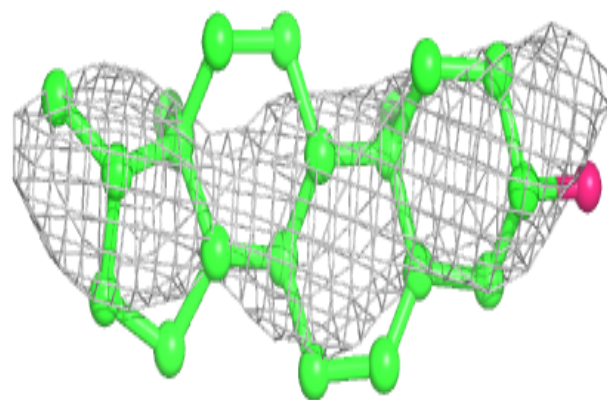


Electron density around OLC A 1205:

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

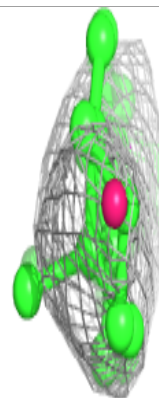
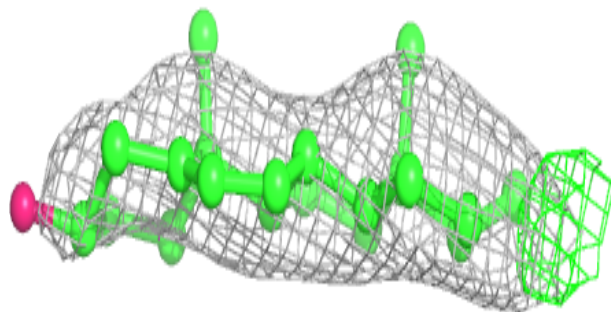
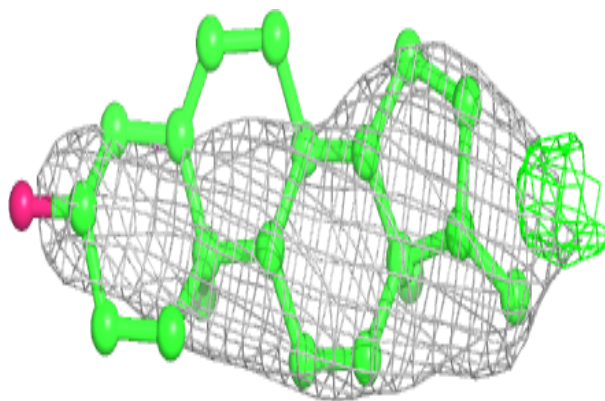
**Electron density around CLR A 1213:**

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

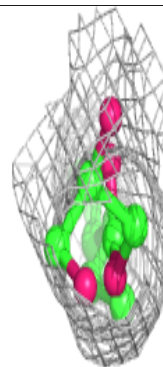
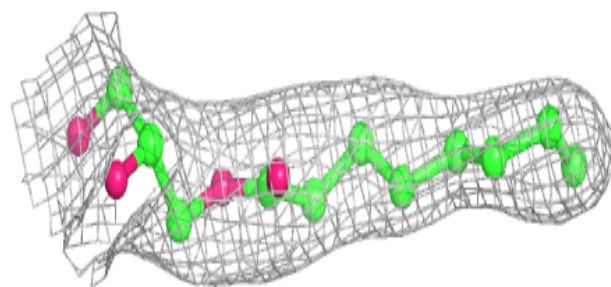
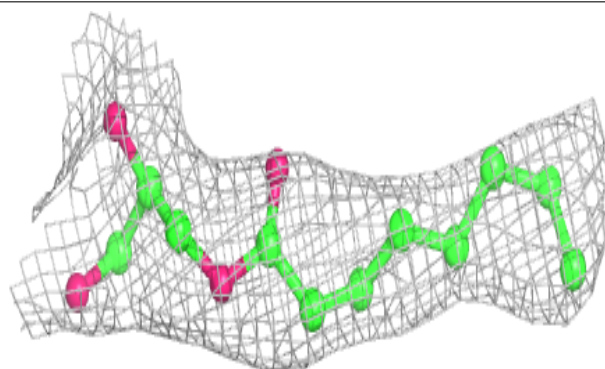


Electron density around CLR A 1211:

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

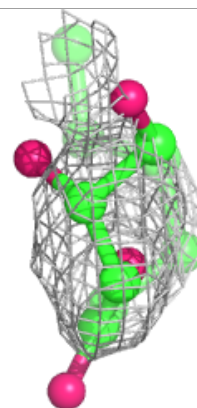
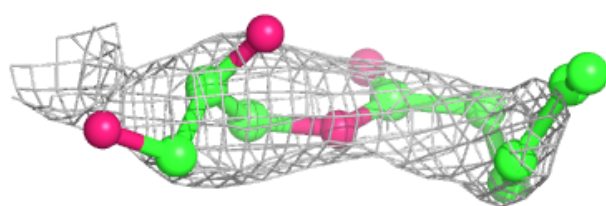
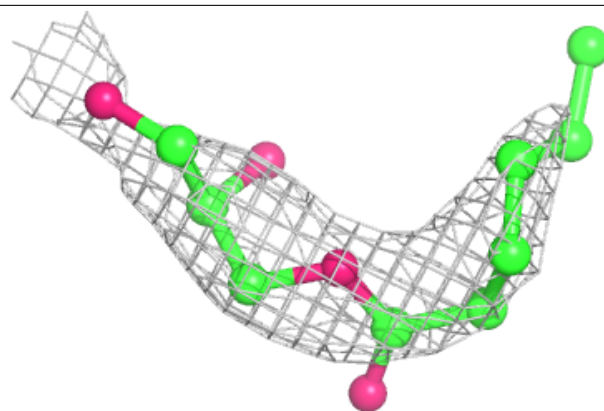
**Electron density around OLC A 1208:**

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

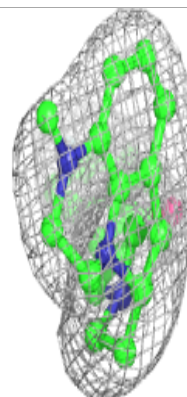
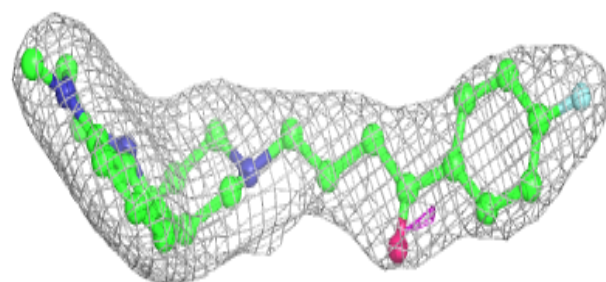
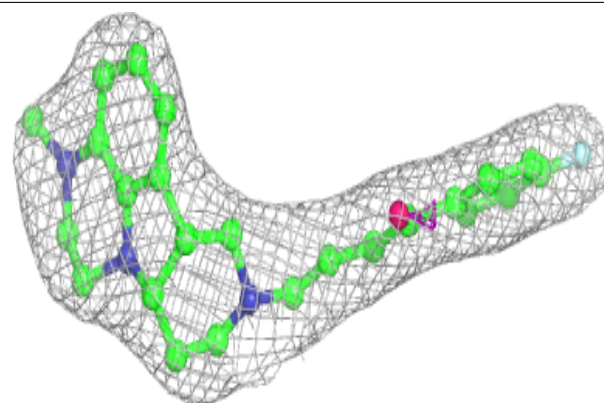


Electron density around OLC A 1215:

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

**Electron density around 92S A 1207:**

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



6.5 Other polymers [i](#)

There are no such residues in this entry.