



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:34 PM UTC

PDB ID : 8RW0 / pdb_00008rw0
Title : Crystal structure of the adenosine A2A receptor in complex with Istradefylline
Authors : Glover, H.
Deposited on : 2024-02-02
Resolution : 1.94 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 ⓘ 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
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

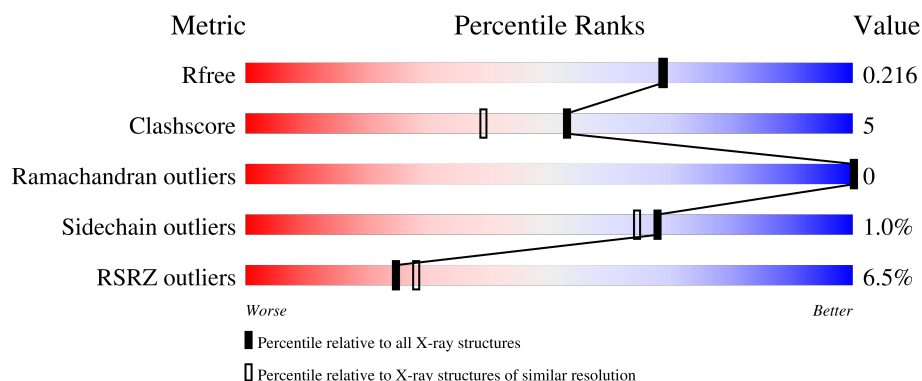
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.94 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	1452 (1.94-1.94)
Clashscore	190562	1494 (1.94-1.94)
Ramachandran outliers	187476	1479 (1.94-1.94)
Sidechain outliers	187428	1479 (1.94-1.94)
RSRZ outliers	180081	1453 (1.94-1.94)

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	449	6% 79% 7% 14%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3518 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 Adenosine receptor A2a,Soluble cytochrome b562.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	386	Total	C	N	O	S	0	7	0
			2971	1949	487	512	23			

There are 48 discrepancies between the modelled and reference sequences:

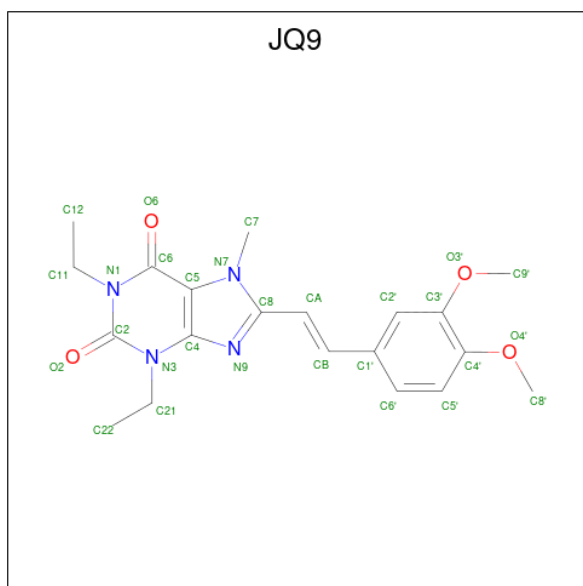
Chain	Residue	Modelled	Actual	Comment	Reference
A	-24	MET	-	initiating methionine	UNP P29274
A	-23	LYS	-	expression tag	UNP P29274
A	-22	THR	-	expression tag	UNP P29274
A	-21	ILE	-	expression tag	UNP P29274
A	-20	ILE	-	expression tag	UNP P29274
A	-19	ALA	-	expression tag	UNP P29274
A	-18	LEU	-	expression tag	UNP P29274
A	-17	SER	-	expression tag	UNP P29274
A	-16	TYR	-	expression tag	UNP P29274
A	-15	ILE	-	expression tag	UNP P29274
A	-14	PHE	-	expression tag	UNP P29274
A	-13	CYS	-	expression tag	UNP P29274
A	-12	LEU	-	expression tag	UNP P29274
A	-11	VAL	-	expression tag	UNP P29274
A	-10	PHE	-	expression tag	UNP P29274
A	-9	ALA	-	expression tag	UNP P29274
A	-8	ASP	-	expression tag	UNP P29274
A	-7	TYR	-	expression tag	UNP P29274
A	-6	LYS	-	expression tag	UNP P29274
A	-5	ASP	-	expression tag	UNP P29274
A	-4	ASP	-	expression tag	UNP P29274
A	-3	ASP	-	expression tag	UNP P29274
A	-2	ASP	-	expression tag	UNP P29274
A	-1	GLY	-	expression tag	UNP P29274
A	0	ALA	-	expression tag	UNP P29274
A	1	PRO	-	expression tag	UNP P29274
A	54	LEU	ALA	conflict	UNP P29274

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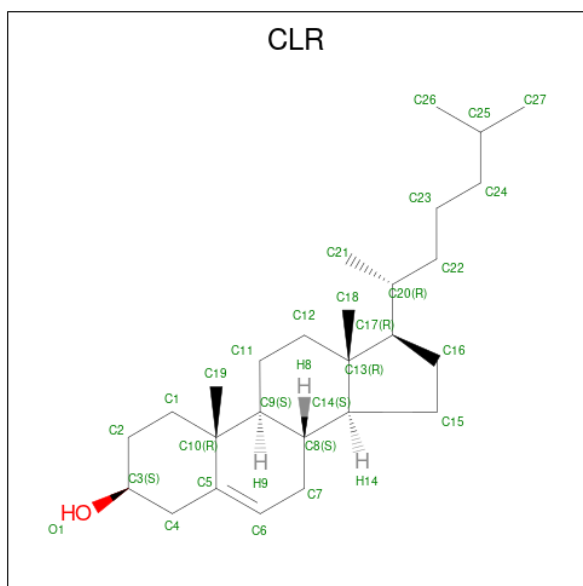
Chain	Residue	Modelled	Actual	Comment	Reference
A	88	ALA	THR	conflict	UNP P29274
A	107	ALA	ARG	conflict	UNP P29274
A	122	ALA	LYS	conflict	UNP P29274
A	154	ALA	ASN	conflict	UNP P29274
A	202	ALA	LEU	conflict	UNP P29274
A	1007	TRP	MET	conflict	UNP P0ABE7
A	1102	ILE	HIS	conflict	UNP P0ABE7
A	1106	LEU	-	linker	UNP P0ABE7
A	235	ALA	LEU	conflict	UNP P29274
A	239	ALA	VAL	conflict	UNP P29274
A	318	ALA	-	expression tag	UNP P29274
A	319	HIS	-	expression tag	UNP P29274
A	320	HIS	-	expression tag	UNP P29274
A	321	HIS	-	expression tag	UNP P29274
A	322	HIS	-	expression tag	UNP P29274
A	323	HIS	-	expression tag	UNP P29274
A	324	HIS	-	expression tag	UNP P29274
A	325	HIS	-	expression tag	UNP P29274
A	326	HIS	-	expression tag	UNP P29274
A	327	HIS	-	expression tag	UNP P29274
A	328	HIS	-	expression tag	UNP P29274

- Molecule 2 is 8-[({E})-2-(3,4-dimethoxyphenyl)ethenyl]-1,3-diethyl-7-methyl-purine-2,6-dione (CCD ID: JQ9) (formula: C₂₀H₂₄N₄O₄) (labeled as "Ligand of Interest" by depositor).



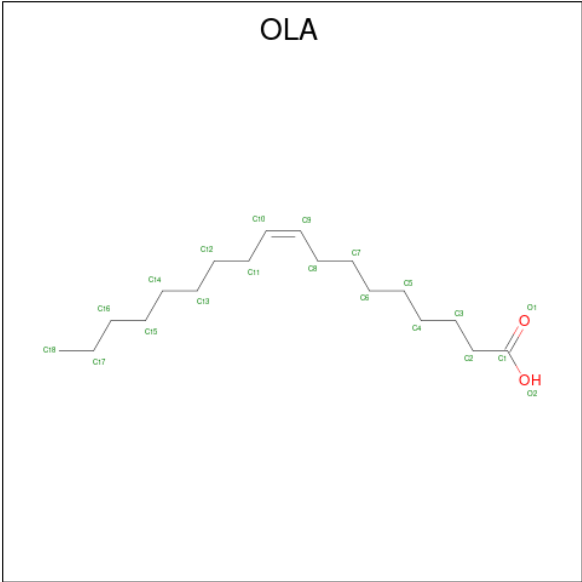
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			28	20	4	4		

- Molecule 3 is CHOLESTEROL (CCD ID: CLR) (formula: $C_{27}H_{46}O$).



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

- Molecule 4 is OLEIC ACID (CCD ID: OLA) (formula: $C_{18}H_{34}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			14	12	2		
4	A	1	Total	C	O	0	0
			17	15	2		
4	A	1	Total	C		0	0
			9	9			
4	A	1	Total	C	O	0	0
			20	18	2		
4	A	1	Total	C	O	0	0
			9	7	2		
4	A	1	Total	C	O	0	0
			14	12	2		
4	A	1	Total	C	O	0	0
			16	14	2		
4	A	1	Total	C	O	0	0
			15	13	2		
4	A	1	Total	C	O	0	0
			12	10	2		
4	A	1	Total	C		0	0
			8	8			
4	A	1	Total	C	O	0	0
			13	11	2		
4	A	1	Total	C		0	0
			15	15			
4	A	1	Total	C	O	0	0
			16	14	2		
4	A	1	Total	C	O	0	0
			18	16	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C 14 14	0	0
4	A	1	Total C O 10 8 2	0	0
4	A	1	Total C O 17 15 2	0	0
4	A	1	Total C O 8 6 2	0	0
4	A	1	Total C O 11 9 2	0	0
4	A	1	Total C 9 9	0	0
4	A	1	Total C O 16 14 2	0	0
4	A	1	Total C O 20 18 2	0	0
4	A	1	Total C O 14 12 2	0	0

- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Na 1 1	0	0

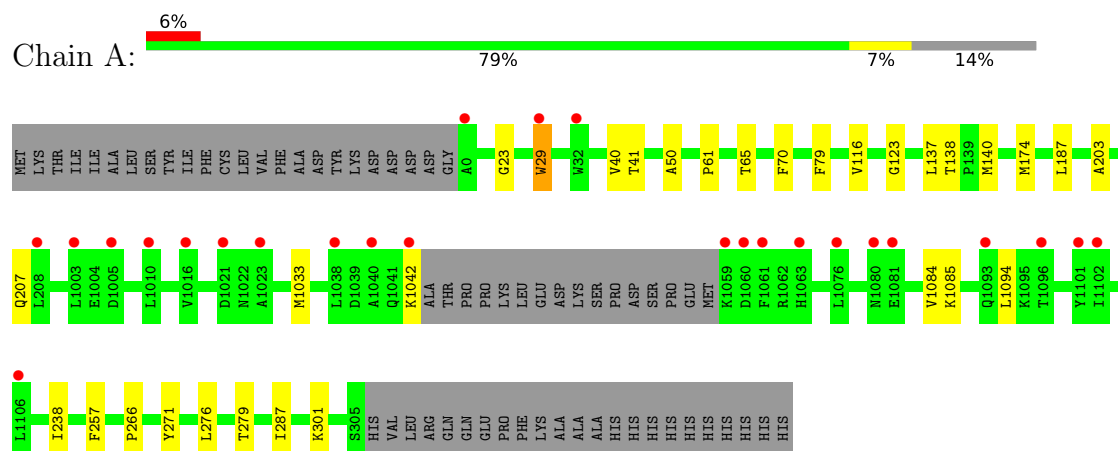
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	119	Total O 119 119	0	0

3 Residue-property plots

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: Adenosine receptor A2a,Soluble cytochrome b562



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	39.33Å 179.34Å 139.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.42 – 1.94 38.42 – 1.94	Depositor EDS
% Data completeness (in resolution range)	99.2 (38.42-1.94) 89.4 (38.42-1.94)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.76 (at 1.94Å)	Xtriage
Refinement program	PHENIX (1.20_4459: ???)	Depositor
R, R_{free}	0.192 , 0.217 0.192 , 0.216	Depositor DCC
R_{free} test set	1798 reflections (4.81%)	wwPDB-VP
Wilson B-factor (Å ²)	24.1	Xtriage
Anisotropy	0.105	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 55.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3518	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.05% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CLR, NA, OLA, JQ9

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	0.40	0/3053	0.57	0/4162

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

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	2971	0	3022	24	0
2	A	28	0	0	0	0
3	A	84	0	138	2	0
4	A	315	0	450	18	0
5	A	1	0	0	0	0
6	A	119	0	0	1	0
All	All	3518	0	3610	35	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 5.

All (35) 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)
4:A:1215:OLA:H71	4:A:1220:OLA:H71	1.78	0.65
1:A:276:LEU:O	1:A:279[B]:THR:HG22	1.95	0.65
4:A:1226:OLA:H21	4:A:1227:OLA:H31	1.78	0.65
1:A:187:LEU:HD21	3:A:1202:CLR:H241	1.86	0.58
1:A:279[A]:THR:HG23	4:A:1214:OLA:H132	1.87	0.56
4:A:1208:OLA:H111	4:A:1225:OLA:H81	1.87	0.56
1:A:266:PRO:HD3	4:A:1212:OLA:H21	1.88	0.55
1:A:79:PHE:HD1	1:A:140[B]:MET:HE1	1.73	0.52
3:A:1202:CLR:H152	4:A:1218:OLA:H112	1.93	0.51
1:A:23:GLY:HA3	6:A:1378:HOH:O	2.11	0.50
1:A:61:PRO:HG3	4:A:1208:OLA:H151	1.94	0.48
1:A:238:ILE:HD11	1:A:287:ILE:HB	1.94	0.48
1:A:271:TYR:HD2	4:A:1217:OLA:H32	1.79	0.48
1:A:29[B]:TRP:CE3	1:A:29[B]:TRP:HA	2.48	0.47
4:A:1224:OLA:H171	4:A:1224:OLA:H141	1.64	0.46
1:A:50:ALA:HB2	4:A:1210:OLA:H81	1.97	0.46
1:A:40:VAL:HG11	1:A:116:VAL:HG12	1.98	0.46
4:A:1217:OLA:H21	4:A:1217:OLA:H51	1.69	0.45
4:A:1217:OLA:H71	4:A:1217:OLA:H42	1.39	0.45
1:A:137:LEU:HD22	1:A:140[B]:MET:HE2	1.98	0.45
1:A:174[A]:MET:HG3	1:A:257:PHE:HB2	1.99	0.45
4:A:1208:OLA:H152	4:A:1208:OLA:H121	1.57	0.44
4:A:1226:OLA:H81	4:A:1226:OLA:H52	1.74	0.44
1:A:203:ALA:O	1:A:207:GLN:HG3	2.17	0.44
1:A:1042:LYS:N	1:A:1042:LYS:HD3	2.33	0.44
1:A:123:GLY:HA3	4:A:1227:OLA:H21	1.99	0.44
1:A:1084:VAL:HG13	1:A:1085:LYS:N	2.33	0.43
1:A:140[A]:MET:HE2	4:A:1221:OLA:H52	2.00	0.43
1:A:65:THR:HG22	1:A:70:PHE:CE1	2.54	0.42
1:A:1033:MET:HE1	1:A:1094:LEU:HD13	2.00	0.42
1:A:40:VAL:HG11	1:A:116:VAL:CG1	2.49	0.42
4:A:1217:OLA:H62	4:A:1217:OLA:H9	1.31	0.42
1:A:301:LYS:HB2	1:A:301:LYS:HE2	1.89	0.41
4:A:1216:OLA:H132	4:A:1216:OLA:H10	1.62	0.41
1:A:29[B]:TRP:HA	1:A:29[B]:TRP:HE3	1.87	0.40

There are no symmetry-related clashes.

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	389/449 (87%)	387 (100%)	2 (0%)	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	306/368 (83%)	302 (99%)	4 (1%)	61	54

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

Mol	Chain	Res	Type
1	A	29[A]	TRP
1	A	29[B]	TRP
1	A	41	THR
1	A	138	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	155	HIS
1	A	1088	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 28 ligands modelled in this entry, 1 is monoatomic - leaving 27 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	OLA	A	1218	-	17,17,19	0.84	1 (5%)	17,17,19	0.94	0
4	OLA	A	1207	-	8,8,19	0.26	0	7,7,19	0.51	0
3	CLR	A	1206	-	31,31,31	0.46	0	48,48,48	0.74	0
4	OLA	A	1210	-	13,13,19	0.99	1 (7%)	13,13,19	0.98	0
4	OLA	A	1225	-	15,15,19	0.94	1 (6%)	15,15,19	1.04	2 (13%)
3	CLR	A	1202	-	31,31,31	0.46	0	48,48,48	1.01	3 (6%)
2	JQ9	A	1201	-	30,30,30	0.42	0	41,43,43	0.71	2 (4%)
4	OLA	A	1221	-	16,16,19	0.94	1 (6%)	16,16,19	0.82	0
3	CLR	A	1203	-	31,31,31	0.51	0	48,48,48	0.99	2 (4%)
4	OLA	A	1217	-	15,15,19	0.87	1 (6%)	15,15,19	0.96	1 (6%)
4	OLA	A	1205	-	16,16,19	0.79	1 (6%)	16,16,19	1.42	2 (12%)
4	OLA	A	1211	-	15,15,19	0.88	1 (6%)	15,15,19	1.02	0
4	OLA	A	1208	-	19,19,19	0.78	1 (5%)	19,19,19	1.12	1 (5%)
4	OLA	A	1212	-	14,14,19	0.97	1 (7%)	14,14,19	0.95	0
4	OLA	A	1216	-	14,14,19	0.78	1 (7%)	13,13,19	0.60	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	OLA	A	1226	-	19,19,19	0.87	1 (5%)	19,19,19	0.86	2 (10%)
4	OLA	A	1224	-	8,8,19	0.32	0	7,7,19	0.45	0
4	OLA	A	1227	-	13,13,19	1.07	1 (7%)	13,13,19	0.84	1 (7%)
4	OLA	A	1219	-	13,13,19	0.81	1 (7%)	12,12,19	0.69	0
4	OLA	A	1214	-	7,7,19	0.31	0	6,6,19	0.66	0
4	OLA	A	1209	-	8,8,19	0.81	0	8,8,19	1.35	2 (25%)
4	OLA	A	1215	-	12,12,19	0.92	1 (8%)	12,12,19	1.21	1 (8%)
4	OLA	A	1220	-	9,9,19	0.65	0	9,9,19	1.32	2 (22%)
4	OLA	A	1204	-	13,13,19	0.90	1 (7%)	13,13,19	1.49	2 (15%)
4	OLA	A	1213	-	11,11,19	1.07	1 (9%)	11,11,19	1.09	0
4	OLA	A	1222	-	7,7,19	0.81	0	7,7,19	1.23	0
4	OLA	A	1223	-	10,10,19	0.74	0	10,10,19	1.13	1 (10%)

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
4	OLA	A	1218	-	-	6/15/15/17	-
4	OLA	A	1207	-	-	4/6/6/17	-
3	CLR	A	1206	-	-	2/10/68/68	0/4/4/4
4	OLA	A	1210	-	-	7/11/11/17	-
4	OLA	A	1225	-	-	6/13/13/17	-
3	CLR	A	1202	-	-	4/10/68/68	0/4/4/4
2	JQ9	A	1201	-	-	0/13/13/13	0/3/3/3
4	OLA	A	1221	-	-	10/14/14/17	-
3	CLR	A	1203	-	-	0/10/68/68	0/4/4/4
4	OLA	A	1217	-	-	9/13/13/17	-
4	OLA	A	1205	-	-	6/14/14/17	-
4	OLA	A	1211	-	-	6/13/13/17	-
4	OLA	A	1208	-	-	7/17/17/17	-
4	OLA	A	1212	-	-	5/12/12/17	-
4	OLA	A	1216	-	-	5/12/12/17	-
4	OLA	A	1226	-	-	11/17/17/17	-
4	OLA	A	1224	-	-	5/6/6/17	-
4	OLA	A	1227	-	-	7/11/11/17	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	OLA	A	1219	-	-	4/11/11/17	-
4	OLA	A	1214	-	-	1/5/5/17	-
4	OLA	A	1209	-	-	4/6/6/17	-
4	OLA	A	1215	-	-	4/10/10/17	-
4	OLA	A	1220	-	-	6/7/7/17	-
4	OLA	A	1204	-	-	4/11/11/17	-
4	OLA	A	1213	-	-	3/9/9/17	-
4	OLA	A	1222	-	-	0/5/5/17	-
4	OLA	A	1223	-	-	4/8/8/17	-

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1227	OLA	C10-C9	2.97	1.48	1.31
4	A	1213	OLA	C10-C9	2.91	1.47	1.29
4	A	1221	OLA	C10-C9	2.89	1.48	1.31
4	A	1212	OLA	C10-C9	2.88	1.48	1.31
4	A	1226	OLA	C10-C9	2.85	1.47	1.31
4	A	1219	OLA	C10-C9	2.83	1.47	1.31
4	A	1225	OLA	C10-C9	2.81	1.47	1.31
4	A	1216	OLA	C10-C9	2.81	1.47	1.31
4	A	1210	OLA	C10-C9	2.80	1.47	1.31
4	A	1204	OLA	C10-C9	2.79	1.47	1.31
4	A	1208	OLA	C10-C9	2.71	1.47	1.31
4	A	1211	OLA	C10-C9	2.66	1.46	1.31
4	A	1218	OLA	C10-C9	2.63	1.46	1.31
4	A	1217	OLA	C10-C9	2.58	1.46	1.31
4	A	1215	OLA	C9-C10	2.51	1.47	1.29
4	A	1205	OLA	C10-C9	2.48	1.45	1.31

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1205	OLA	C3-C2-C1	-3.49	105.40	114.51
4	A	1208	OLA	C3-C2-C1	-3.00	106.69	114.51
3	A	1203	CLR	C11-C12-C13	-2.89	107.86	112.74
4	A	1204	OLA	C3-C2-C1	-2.69	107.50	114.51
4	A	1204	OLA	O2-C1-C2	2.68	122.46	114.00
2	A	1201	JQ9	C2-N3-C4	2.61	121.37	119.59
3	A	1203	CLR	C18-C13-C17	-2.56	107.03	111.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1205	OLA	O2-C1-C2	2.51	121.92	114.00
4	A	1220	OLA	O2-C1-C2	2.39	121.56	114.00
4	A	1217	OLA	C3-C2-C1	-2.38	108.30	114.51
4	A	1209	OLA	O2-C1-O1	-2.35	117.28	123.33
3	A	1202	CLR	C15-C14-C13	2.34	106.59	103.84
4	A	1225	OLA	O2-C1-C2	2.31	121.28	114.00
4	A	1225	OLA	O2-C1-O1	-2.30	117.42	123.33
2	A	1201	JQ9	C5-N7-C8	-2.27	105.76	107.00
4	A	1220	OLA	C3-C2-C1	-2.21	108.73	114.51
4	A	1223	OLA	O2-C1-O1	-2.20	117.67	123.33
3	A	1202	CLR	C14-C8-C9	-2.18	106.24	109.09
4	A	1226	OLA	O2-C1-C2	2.17	120.86	114.00
4	A	1227	OLA	O2-C1-C2	2.17	120.85	114.00
4	A	1215	OLA	C3-C2-C1	-2.14	108.93	114.51
4	A	1226	OLA	O2-C1-O1	-2.10	117.93	123.33
4	A	1209	OLA	O2-C1-C2	2.04	120.45	114.00
3	A	1202	CLR	C21-C20-C17	2.02	115.92	112.88

There are no chirality outliers.

All (130) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1217	OLA	C6-C7-C8-C9
4	A	1226	OLA	C11-C10-C9-C8
4	A	1227	OLA	C5-C6-C7-C8
4	A	1217	OLA	C4-C5-C6-C7
4	A	1226	OLA	C5-C6-C7-C8
4	A	1217	OLA	C2-C3-C4-C5
4	A	1210	OLA	C4-C5-C6-C7
4	A	1208	OLA	C1-C2-C3-C4
4	A	1221	OLA	C1-C2-C3-C4
4	A	1223	OLA	C1-C2-C3-C4
3	A	1202	CLR	C20-C22-C23-C24
4	A	1210	OLA	C1-C2-C3-C4
4	A	1220	OLA	C1-C2-C3-C4
4	A	1224	OLA	C14-C15-C16-C17
4	A	1210	OLA	C6-C7-C8-C9
4	A	1212	OLA	C11-C10-C9-C8
4	A	1208	OLA	C4-C5-C6-C7
4	A	1216	OLA	C13-C14-C15-C16
4	A	1221	OLA	C11-C12-C13-C14
4	A	1217	OLA	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
4	A	1205	OLA	C3-C4-C5-C6
4	A	1225	OLA	C4-C5-C6-C7
4	A	1220	OLA	C3-C4-C5-C6
4	A	1216	OLA	C10-C11-C12-C13
4	A	1223	OLA	C3-C4-C5-C6
4	A	1208	OLA	C3-C4-C5-C6
4	A	1205	OLA	C1-C2-C3-C4
4	A	1226	OLA	C11-C12-C13-C14
4	A	1215	OLA	C2-C3-C4-C5
4	A	1218	OLA	C5-C6-C7-C8
4	A	1215	OLA	C3-C4-C5-C6
4	A	1226	OLA	C12-C13-C14-C15
4	A	1221	OLA	C10-C11-C12-C13
3	A	1202	CLR	C22-C23-C24-C25
4	A	1204	OLA	C11-C10-C9-C8
4	A	1220	OLA	C4-C5-C6-C7
4	A	1226	OLA	C1-C2-C3-C4
4	A	1207	OLA	C13-C14-C15-C16
4	A	1217	OLA	C3-C4-C5-C6
4	A	1226	OLA	C2-C3-C4-C5
4	A	1211	OLA	C1-C2-C3-C4
4	A	1204	OLA	C9-C10-C11-C12
4	A	1209	OLA	C1-C2-C3-C4
4	A	1215	OLA	C6-C7-C8-C9
4	A	1221	OLA	C4-C5-C6-C7
4	A	1221	OLA	C2-C3-C4-C5
3	A	1202	CLR	C23-C24-C25-C26
4	A	1204	OLA	C5-C6-C7-C8
4	A	1218	OLA	C9-C10-C11-C12
4	A	1207	OLA	C14-C15-C16-C17
4	A	1216	OLA	C11-C12-C13-C14
4	A	1205	OLA	C9-C10-C11-C12
4	A	1216	OLA	C12-C13-C14-C15
4	A	1208	OLA	C11-C10-C9-C8
4	A	1217	OLA	C5-C6-C7-C8
4	A	1213	OLA	C4-C5-C6-C7
4	A	1212	OLA	C6-C7-C8-C9
4	A	1225	OLA	C6-C7-C8-C9
4	A	1218	OLA	C11-C12-C13-C14
4	A	1214	OLA	C13-C14-C15-C16
4	A	1224	OLA	C10-C11-C12-C13
4	A	1205	OLA	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
4	A	1226	OLA	C15-C16-C17-C18
4	A	1218	OLA	C2-C3-C4-C5
4	A	1225	OLA	C11-C12-C13-C14
4	A	1210	OLA	C11-C10-C9-C8
4	A	1216	OLA	C4-C5-C6-C7
4	A	1225	OLA	C11-C10-C9-C8
4	A	1224	OLA	C13-C14-C15-C16
4	A	1221	OLA	C12-C13-C14-C15
3	A	1202	CLR	C23-C24-C25-C27
4	A	1227	OLA	C3-C4-C5-C6
4	A	1205	OLA	C6-C7-C8-C9
4	A	1224	OLA	C11-C12-C13-C14
4	A	1207	OLA	C12-C13-C14-C15
4	A	1208	OLA	C5-C6-C7-C8
4	A	1227	OLA	C9-C10-C11-C12
4	A	1219	OLA	C5-C6-C7-C8
4	A	1218	OLA	C1-C2-C3-C4
4	A	1221	OLA	C5-C6-C7-C8
4	A	1211	OLA	C11-C10-C9-C8
4	A	1221	OLA	C9-C10-C11-C12
4	A	1223	OLA	C5-C6-C7-C8
4	A	1211	OLA	C11-C12-C13-C14
4	A	1220	OLA	C5-C6-C7-C8
3	A	1206	CLR	C23-C24-C25-C26
4	A	1221	OLA	C3-C4-C5-C6
4	A	1205	OLA	C10-C11-C12-C13
4	A	1224	OLA	C12-C13-C14-C15
4	A	1225	OLA	C5-C6-C7-C8
4	A	1225	OLA	C9-C10-C11-C12
4	A	1219	OLA	C11-C12-C13-C14
4	A	1217	OLA	O2-C1-C2-C3
4	A	1204	OLA	C6-C7-C8-C9
4	A	1220	OLA	O1-C1-C2-C3
4	A	1210	OLA	C7-C8-C9-C10
4	A	1227	OLA	O2-C1-C2-C3
4	A	1218	OLA	C13-C14-C15-C16
4	A	1223	OLA	C2-C3-C4-C5
4	A	1217	OLA	O1-C1-C2-C3
4	A	1213	OLA	C7-C8-C9-C10
4	A	1208	OLA	C12-C13-C14-C15
4	A	1227	OLA	O1-C1-C2-C3
4	A	1227	OLA	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
3	A	1206	CLR	C23-C24-C25-C27
4	A	1209	OLA	C3-C4-C5-C6
4	A	1227	OLA	C4-C5-C6-C7
4	A	1212	OLA	O1-C1-C2-C3
4	A	1211	OLA	C9-C10-C11-C12
4	A	1210	OLA	C5-C6-C7-C8
4	A	1226	OLA	O1-C1-C2-C3
4	A	1212	OLA	O2-C1-C2-C3
4	A	1220	OLA	O2-C1-C2-C3
4	A	1219	OLA	C7-C8-C9-C10
4	A	1217	OLA	C7-C8-C9-C10
4	A	1210	OLA	C3-C4-C5-C6
4	A	1213	OLA	C5-C6-C7-C8
4	A	1219	OLA	C4-C5-C6-C7
4	A	1211	OLA	C7-C8-C9-C10
4	A	1221	OLA	C7-C8-C9-C10
4	A	1209	OLA	O1-C1-C2-C3
4	A	1226	OLA	O2-C1-C2-C3
4	A	1226	OLA	C3-C4-C5-C6
4	A	1215	OLA	C5-C6-C7-C8
4	A	1226	OLA	C4-C5-C6-C7
4	A	1209	OLA	O2-C1-C2-C3
4	A	1207	OLA	C10-C11-C12-C13
4	A	1208	OLA	O2-C1-C2-C3
4	A	1212	OLA	C5-C6-C7-C8
4	A	1211	OLA	O2-C1-C2-C3

There are no ring outliers.

15 monomers are involved in 19 short contacts:

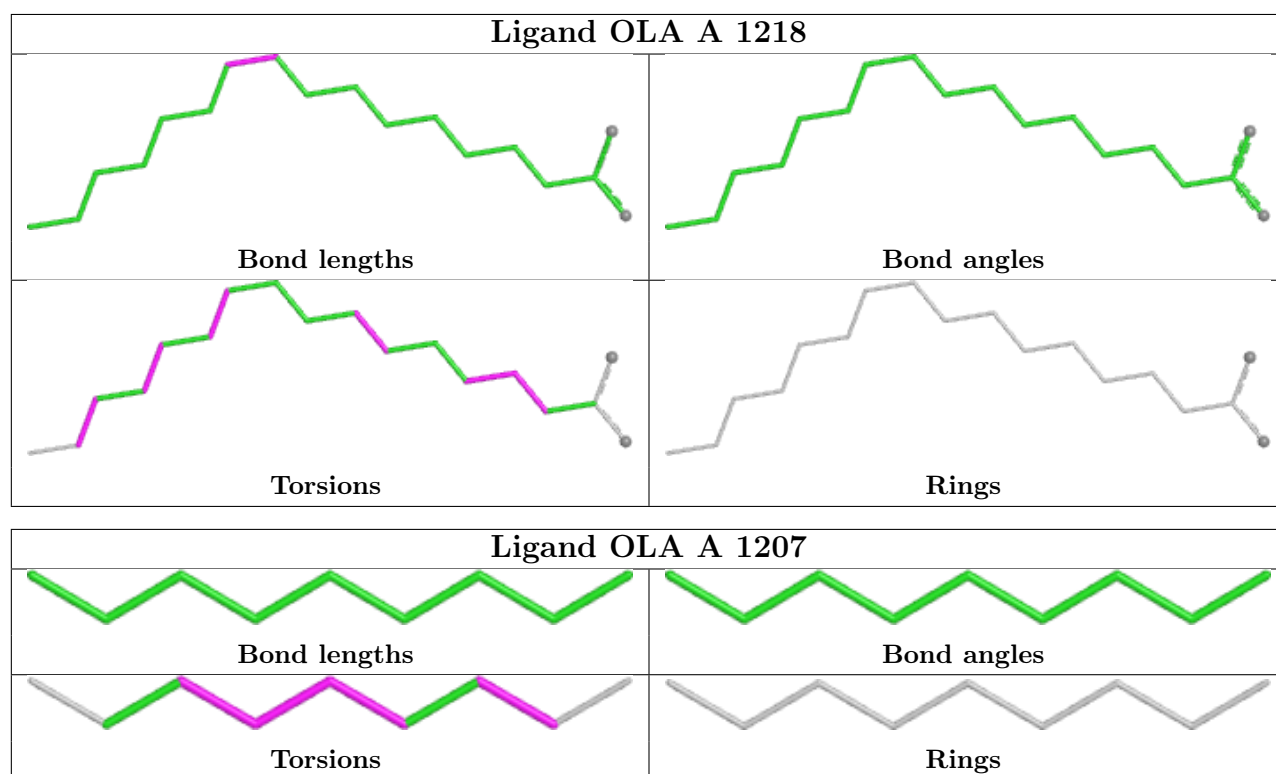
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1218	OLA	1	0
4	A	1210	OLA	1	0
4	A	1225	OLA	1	0
3	A	1202	CLR	2	0
4	A	1221	OLA	1	0
4	A	1217	OLA	4	0
4	A	1208	OLA	3	0
4	A	1212	OLA	1	0
4	A	1216	OLA	1	0
4	A	1226	OLA	2	0
4	A	1224	OLA	1	0

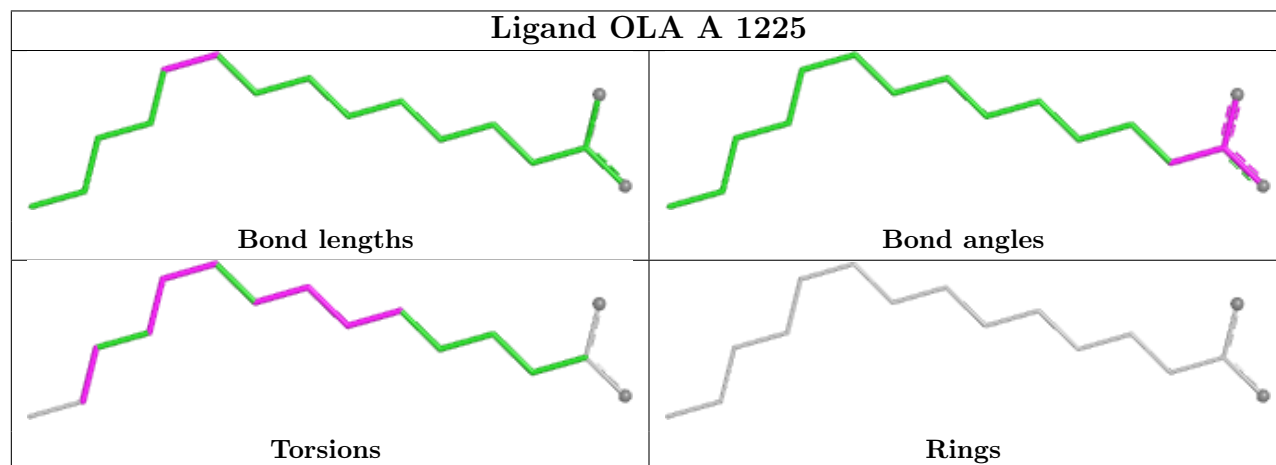
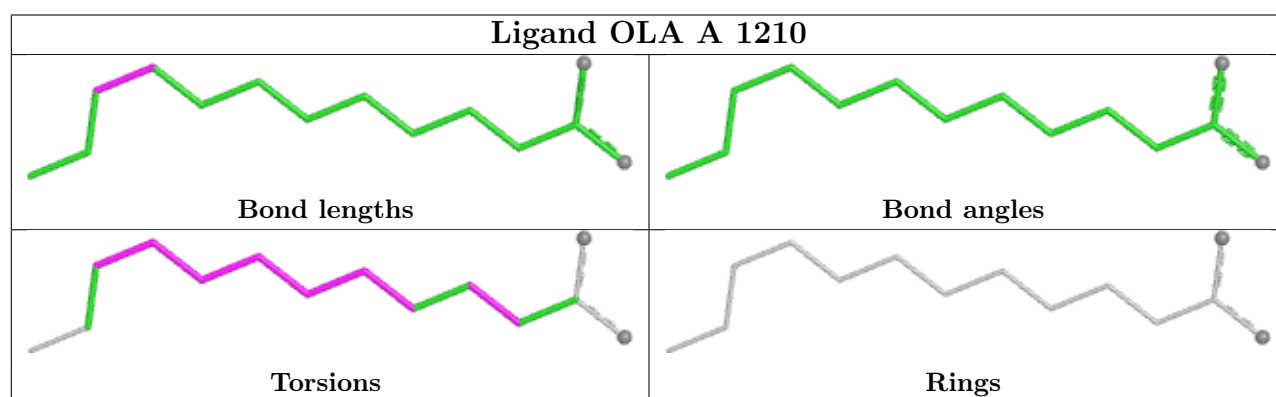
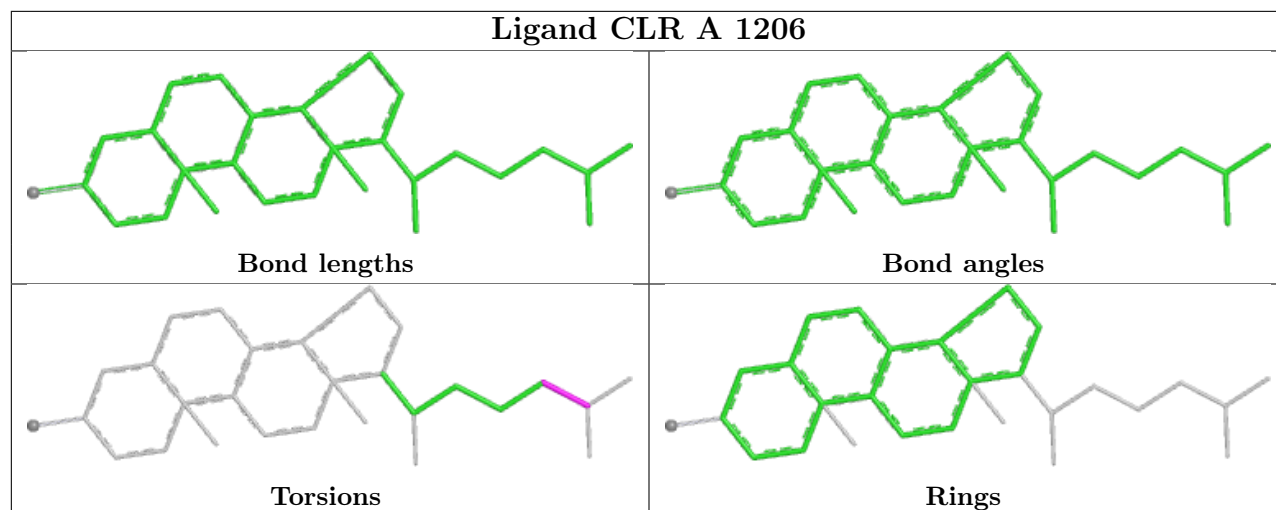
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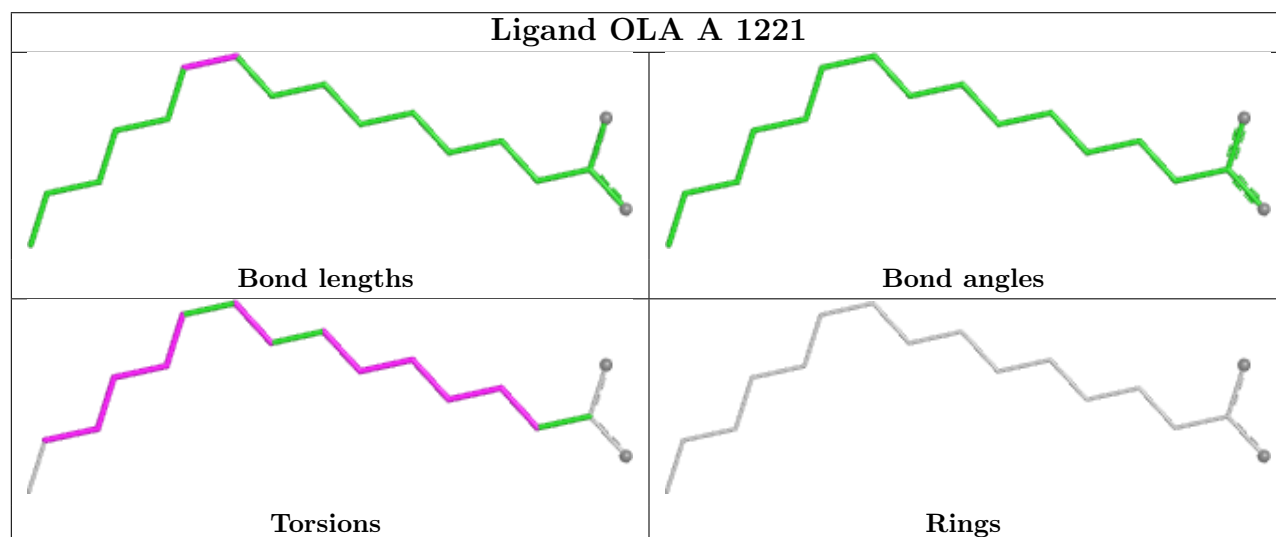
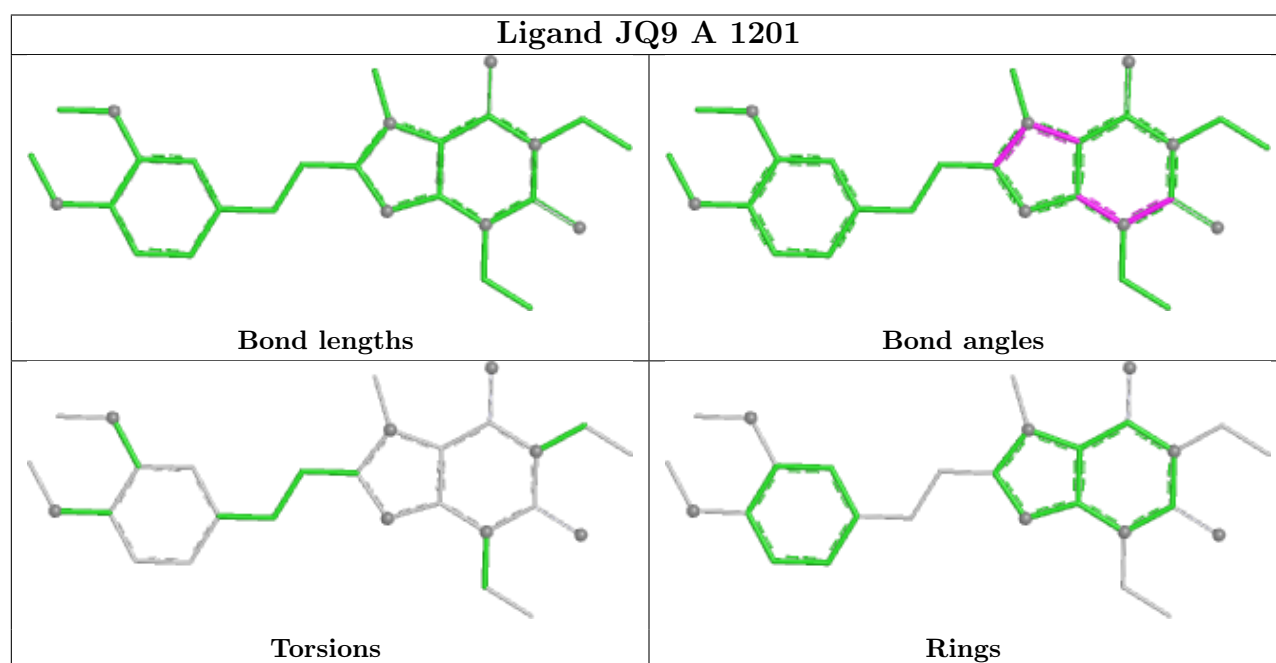
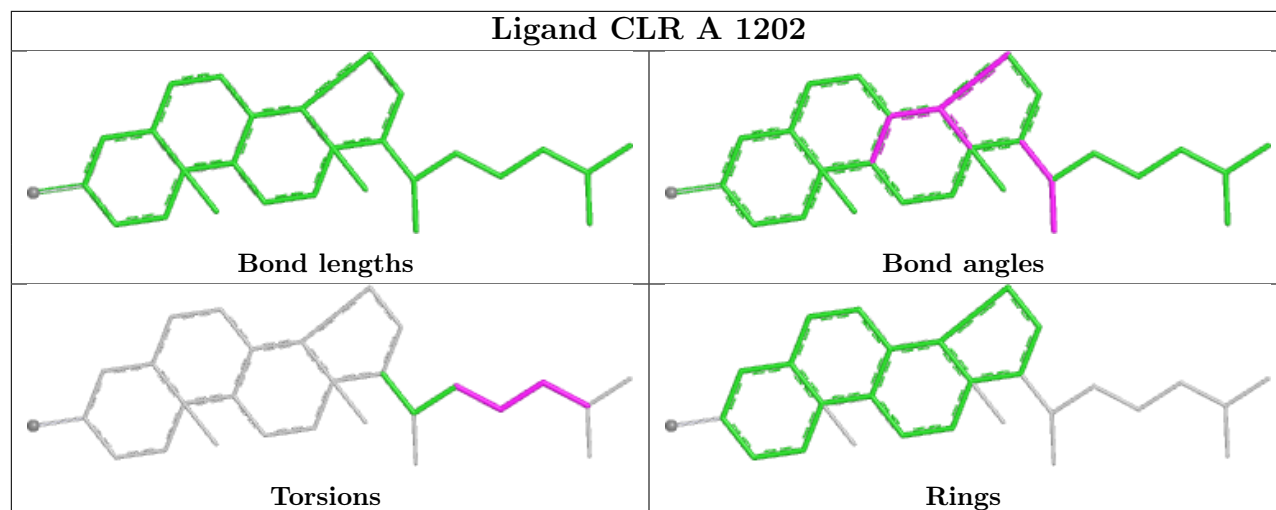
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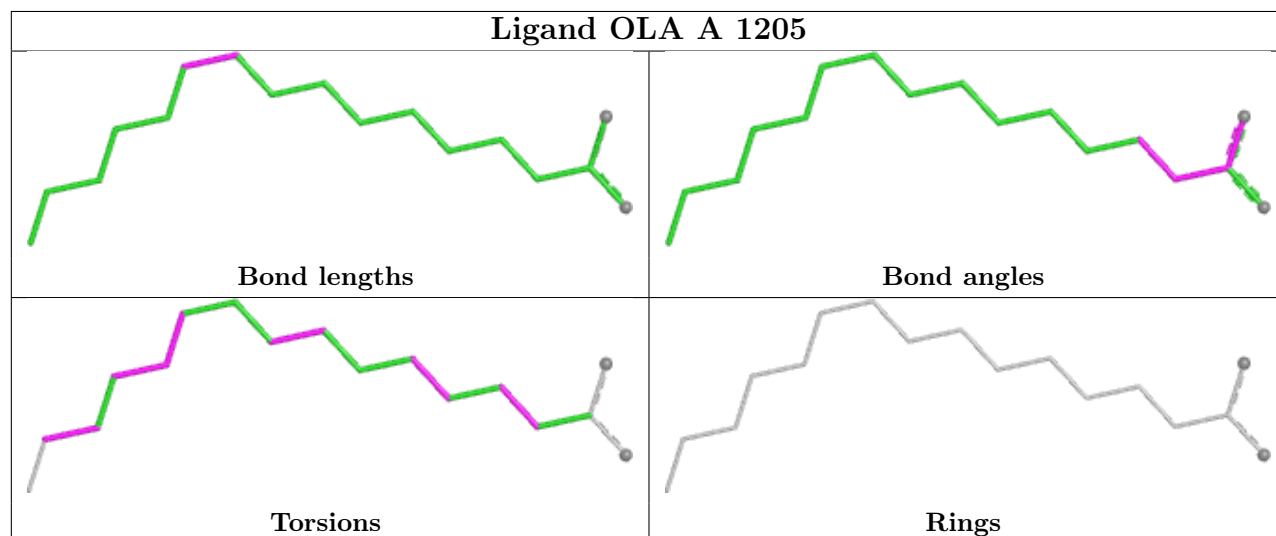
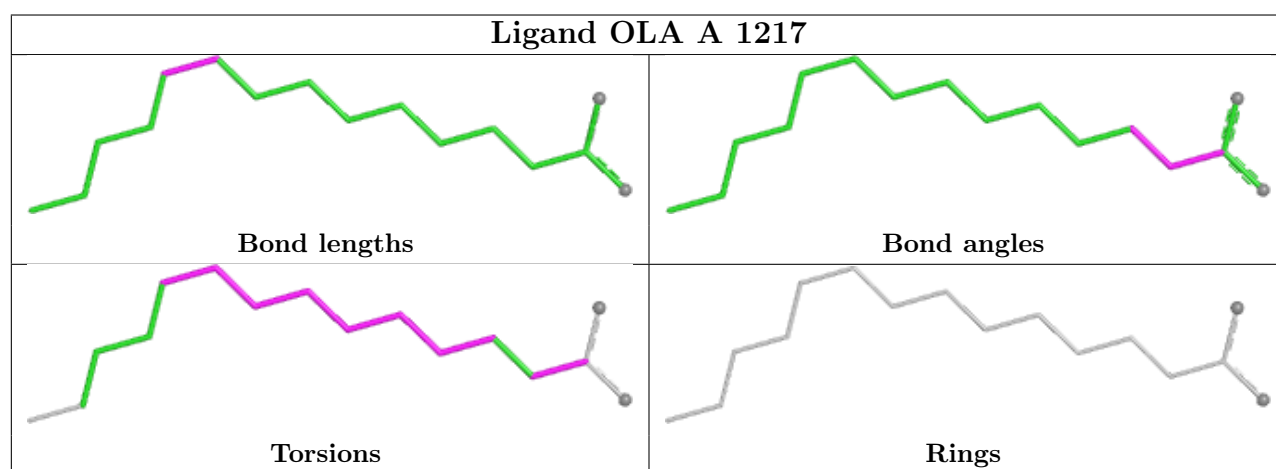
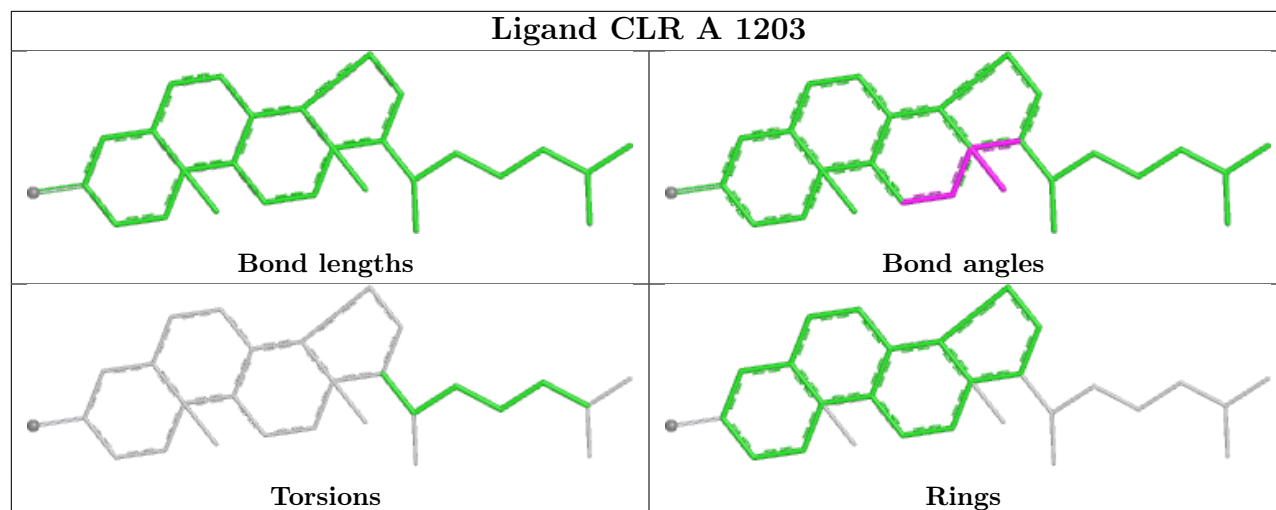
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1227	OLA	2	0
4	A	1214	OLA	1	0
4	A	1215	OLA	1	0
4	A	1220	OLA	1	0

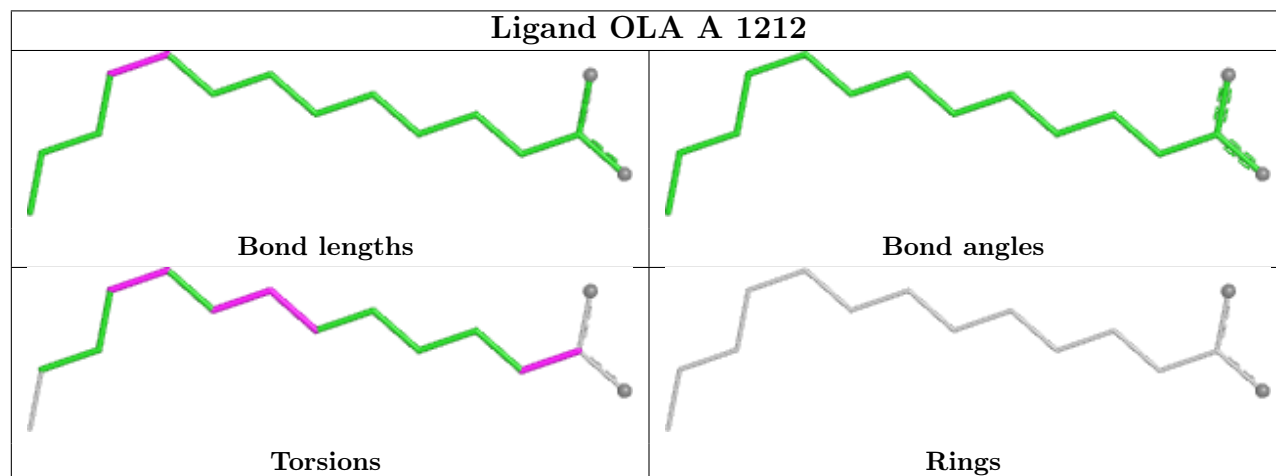
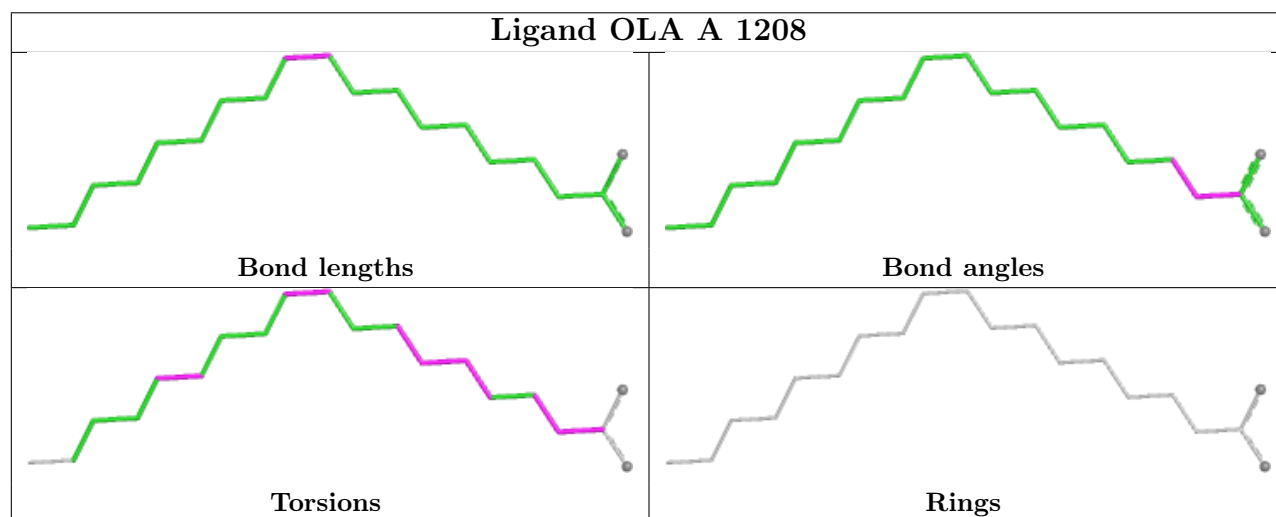
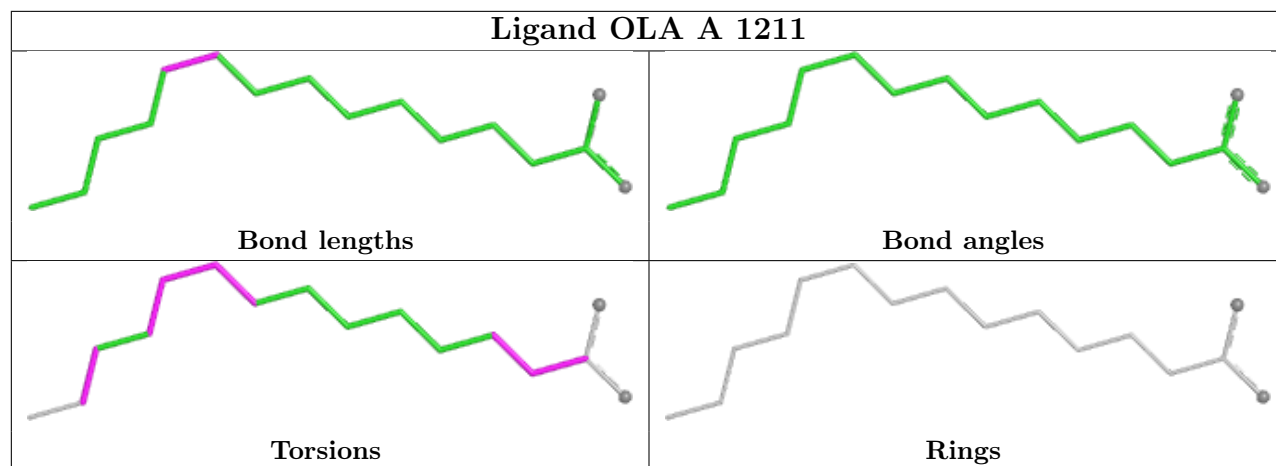
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

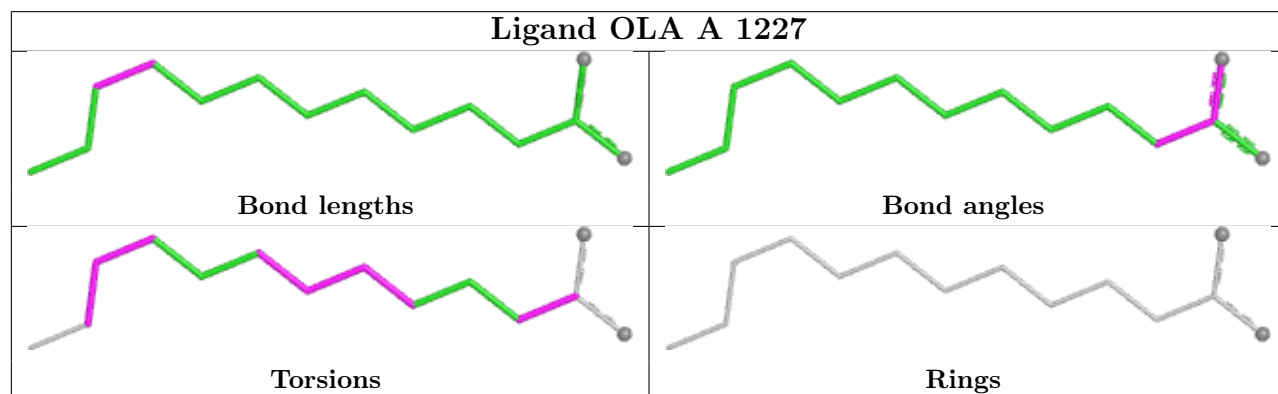
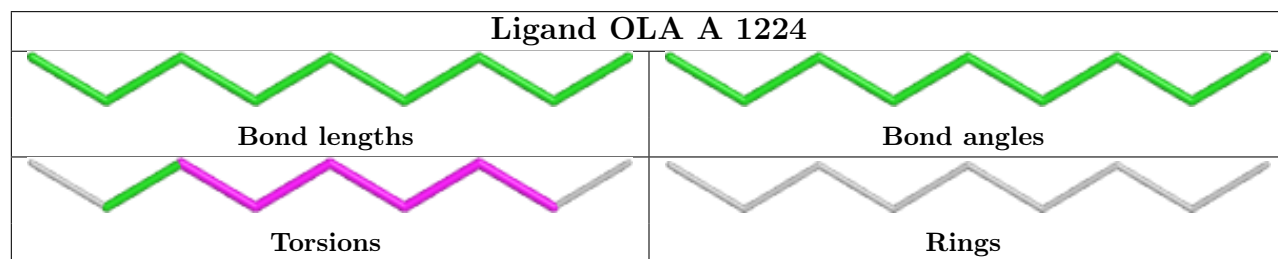
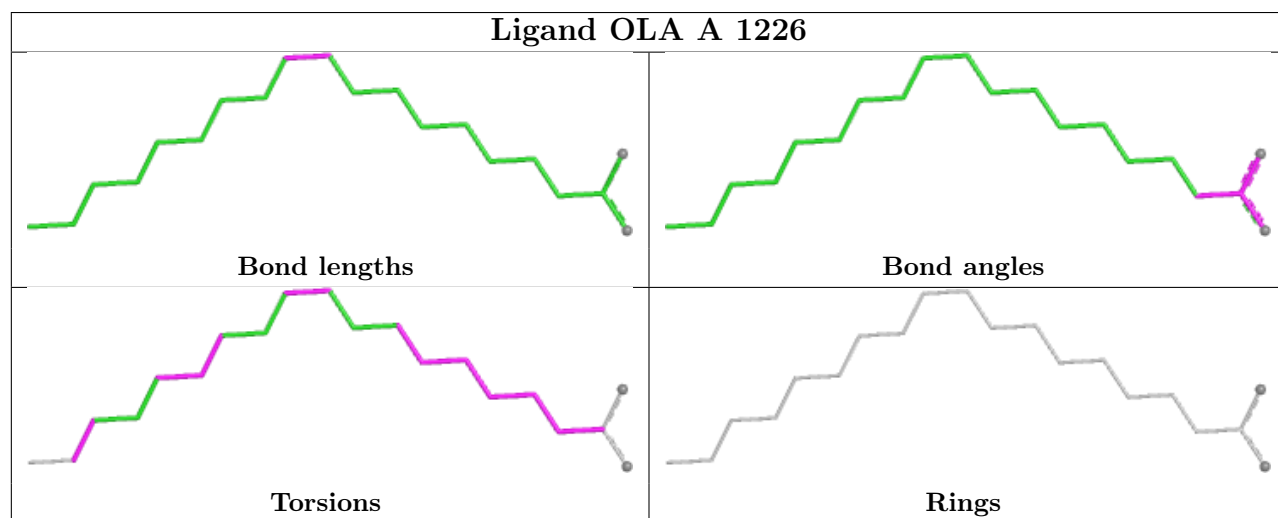
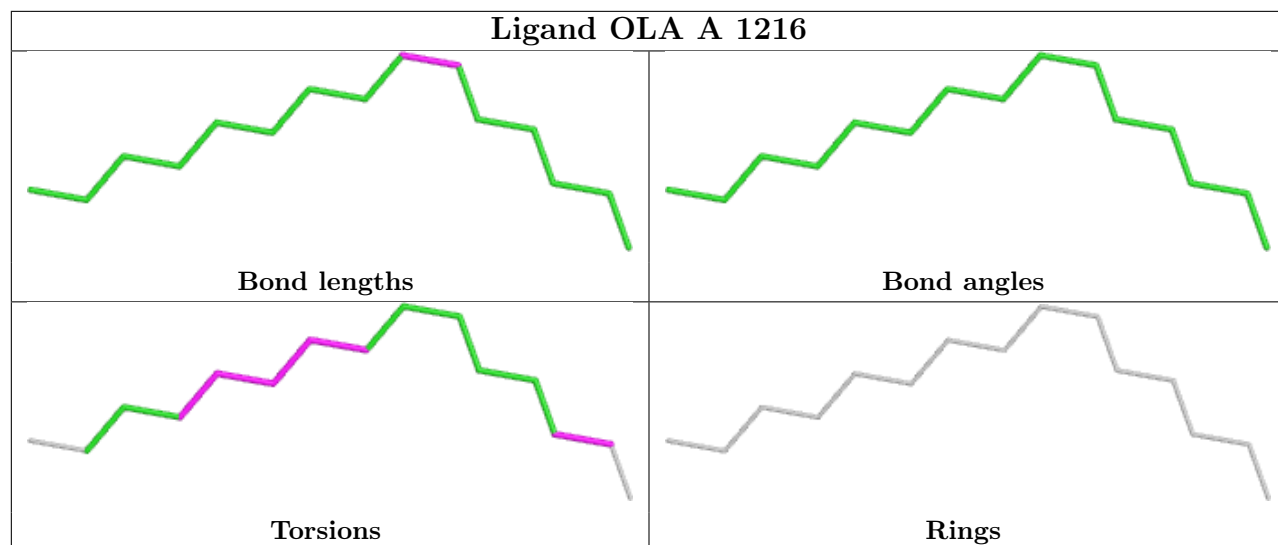


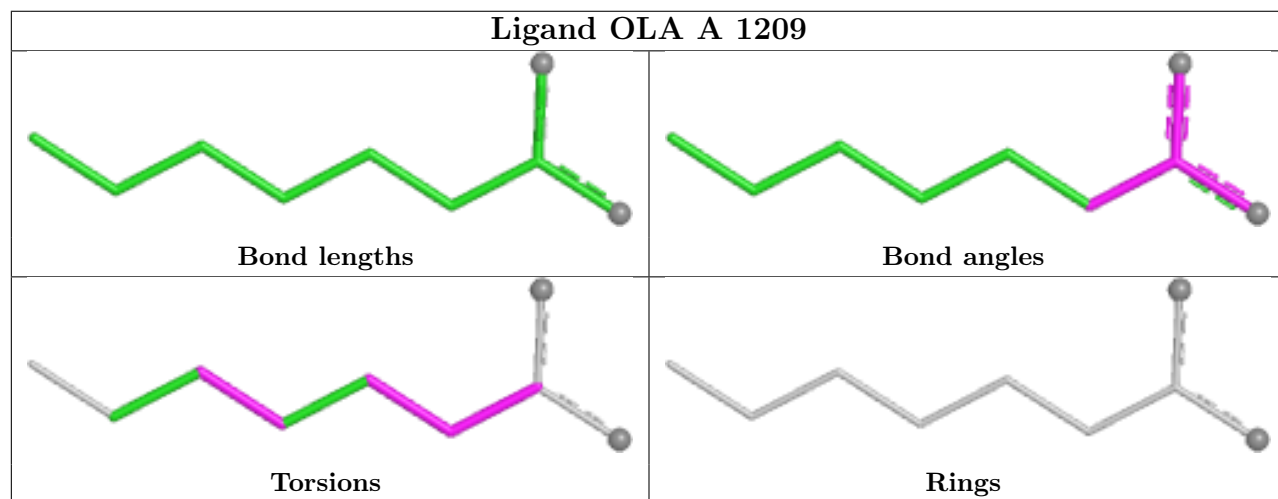
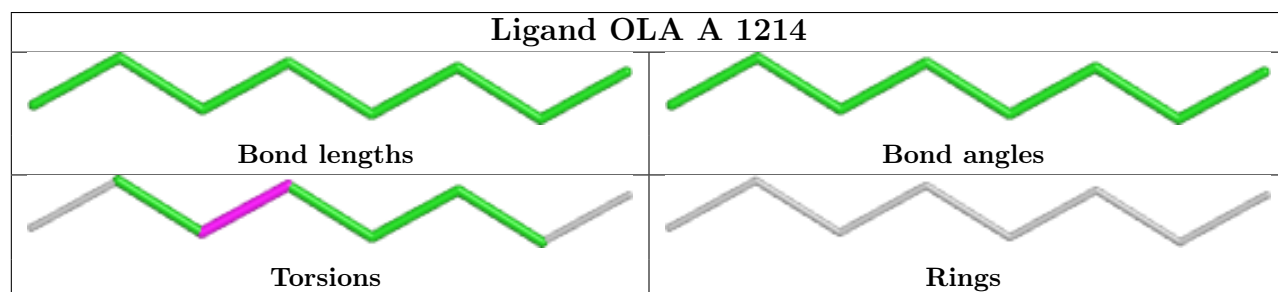
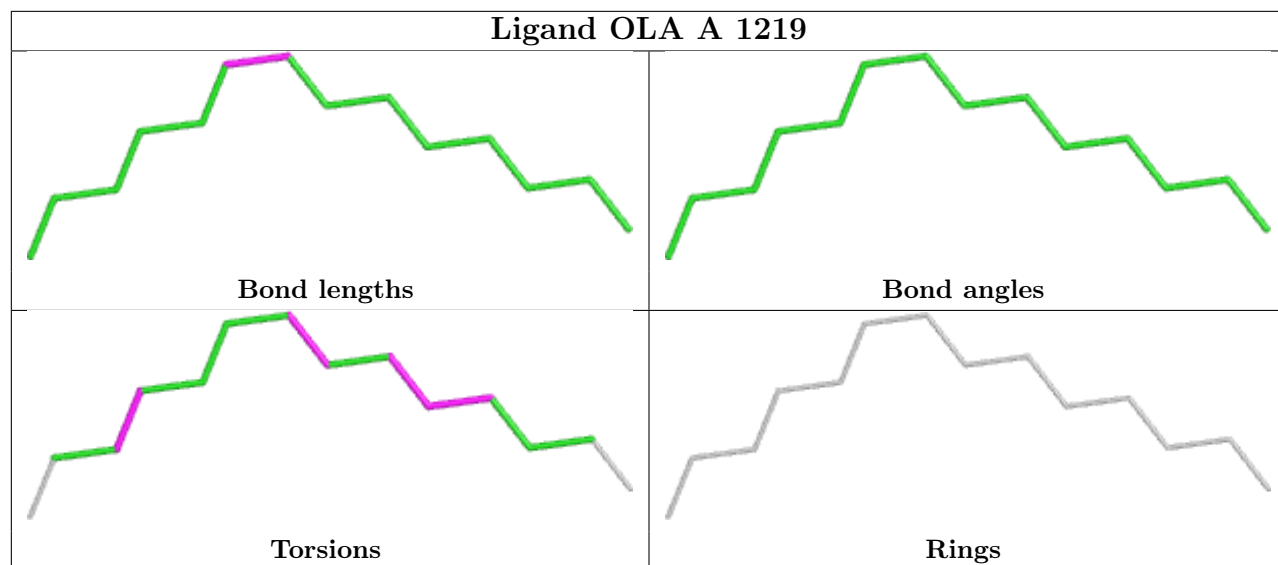


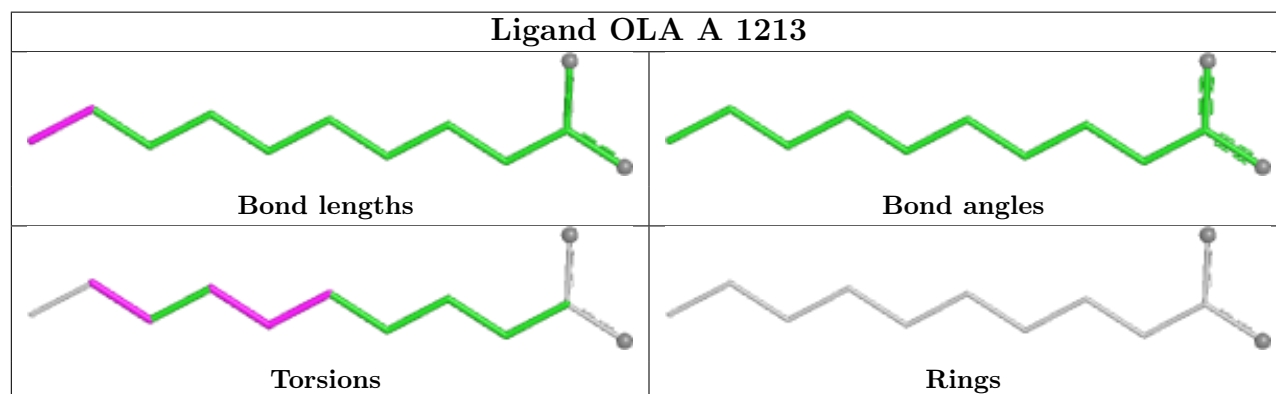
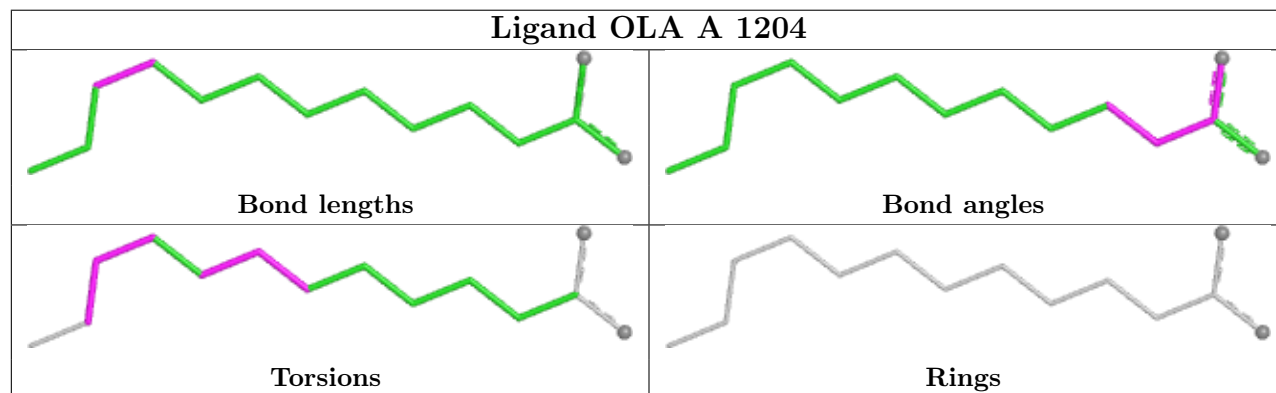
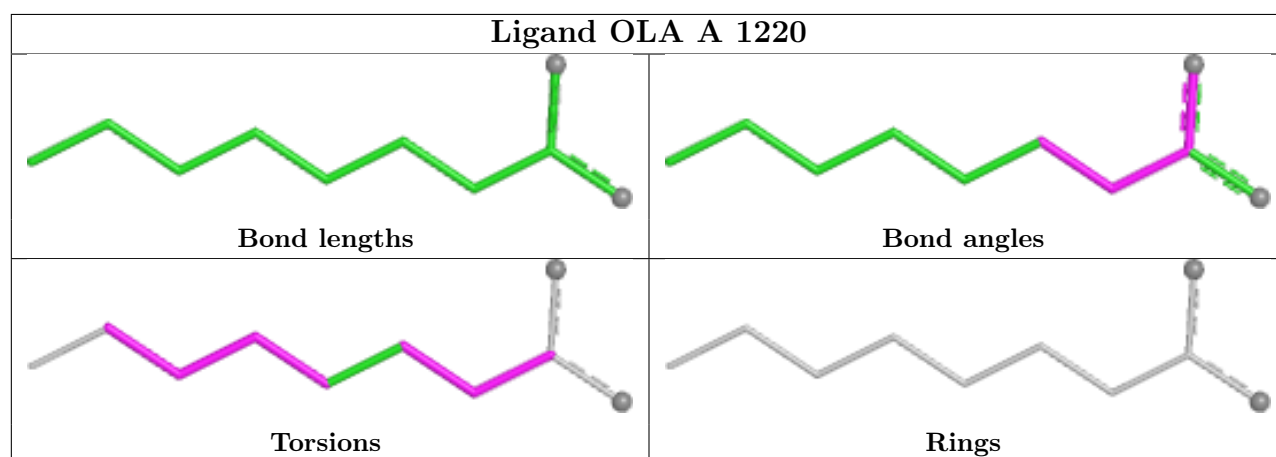
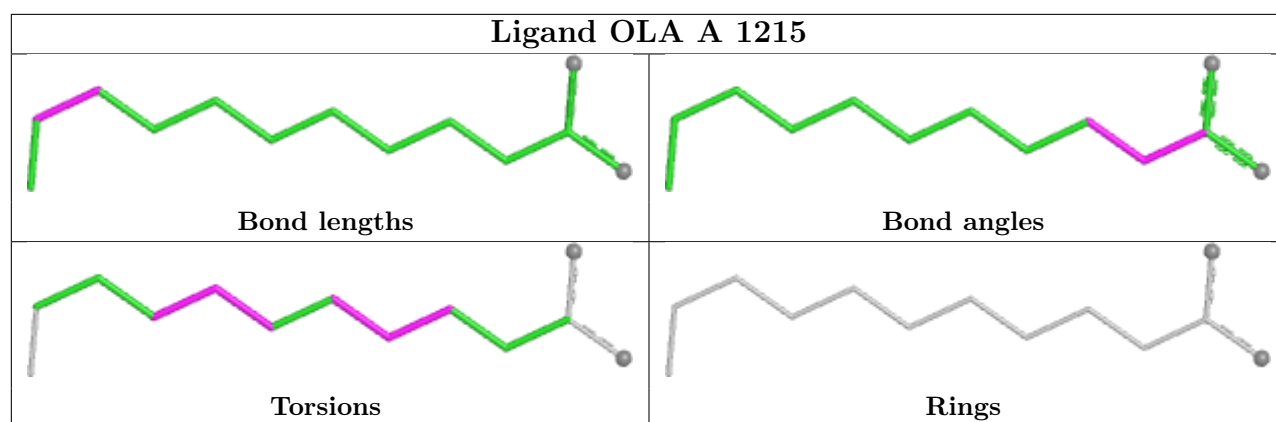


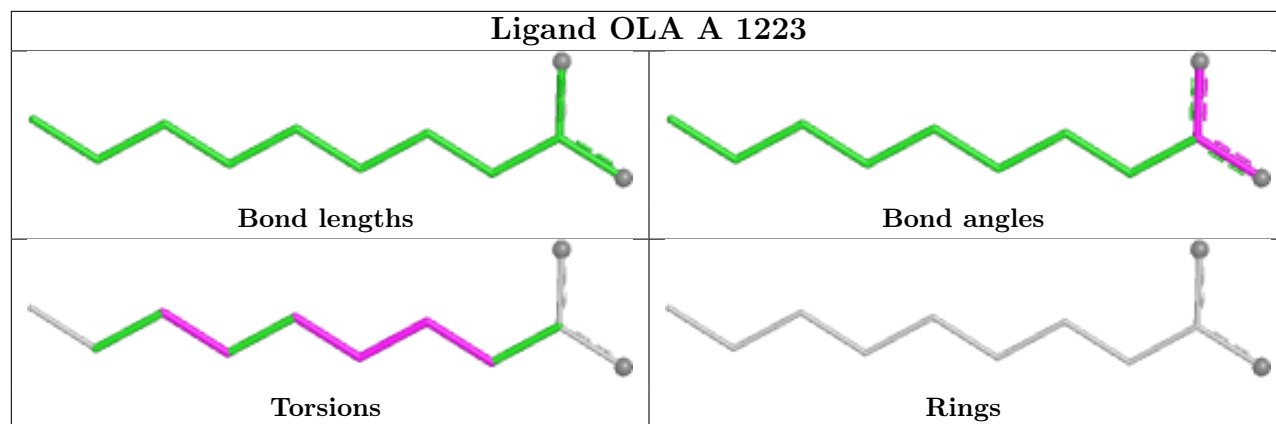












5.7 Other polymers [i](#)

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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	386/449 (85%)	0.35	25 (6%)	25 28	11, 31, 60, 90	7 (1%)

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1061	PHE	5.1
1	A	1060	ASP	4.8
1	A	29[A]	TRP	4.2
1	A	1059	LYS	3.5
1	A	1106	LEU	3.0
1	A	1005	ASP	2.8
1	A	1081	GLU	2.8
1	A	1040	ALA	2.6
1	A	32	TRP	2.6
1	A	1096	THR	2.6
1	A	1101	TYR	2.5
1	A	1080	ASN	2.5
1	A	1023	ALA	2.5
1	A	1021	ASP	2.5
1	A	1042	LYS	2.4
1	A	1003	LEU	2.4
1	A	1038	LEU	2.3
1	A	1093	GLN	2.3
1	A	0	ALA	2.3
1	A	1010	LEU	2.2
1	A	1076	LEU	2.2
1	A	1016	VAL	2.1
1	A	1102	ILE	2.1
1	A	1063	HIS	2.0
1	A	208	LEU	2.0

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 [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.

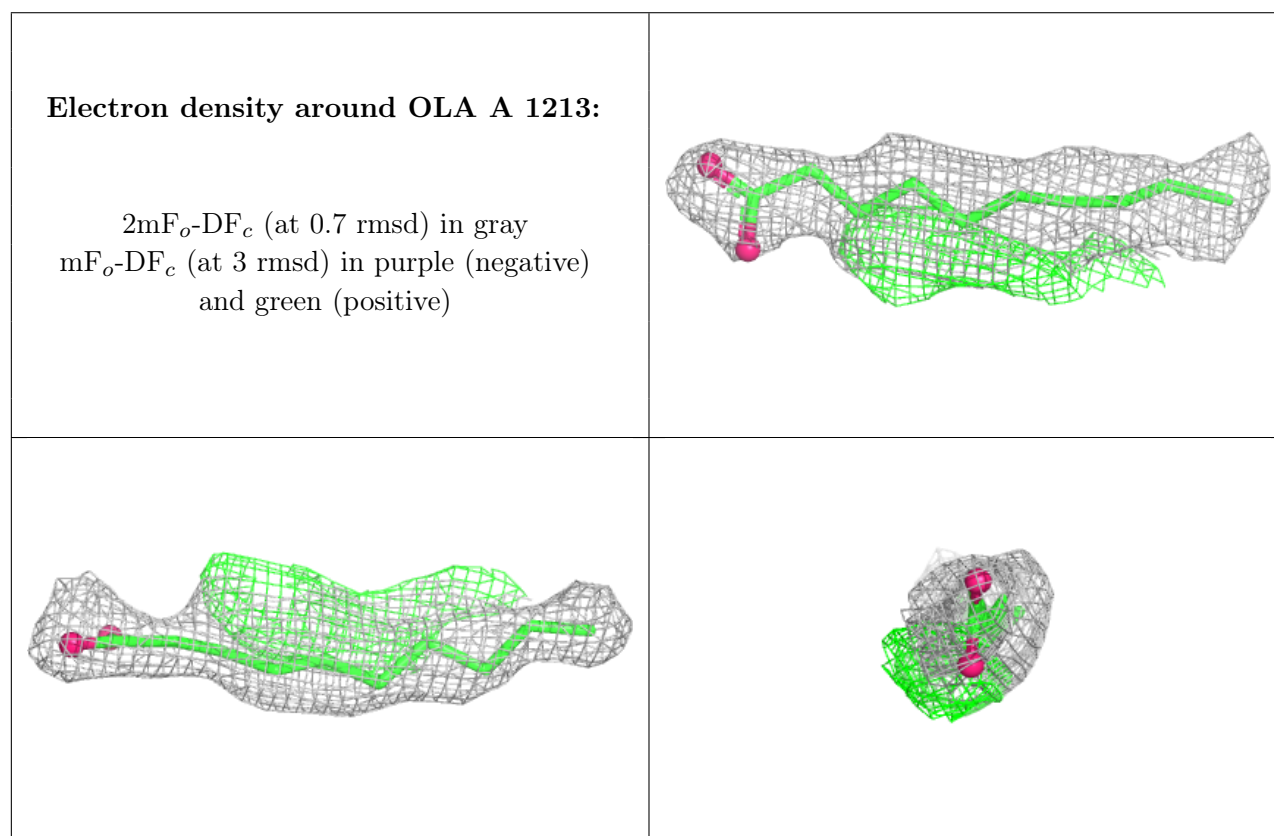
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	OLA	A	1213	12/20	0.65	0.22	44,51,60,71	0
4	OLA	A	1223	11/20	0.70	0.18	39,49,66,84	0
4	OLA	A	1222	8/20	0.72	0.18	43,51,56,59	0
4	OLA	A	1225	16/20	0.76	0.18	47,57,67,75	0
4	OLA	A	1227	14/20	0.76	0.18	39,60,63,64	0
4	OLA	A	1212	15/20	0.77	0.17	42,46,58,59	0
4	OLA	A	1224	9/20	0.77	0.17	37,50,59,61	0
4	OLA	A	1221	17/20	0.78	0.16	45,50,63,63	0
4	OLA	A	1226	20/20	0.79	0.16	38,51,63,64	0
4	OLA	A	1217	16/20	0.79	0.15	38,46,59,64	0
4	OLA	A	1216	15/20	0.81	0.16	44,48,57,60	0
4	OLA	A	1219	14/20	0.83	0.16	47,53,57,58	0
4	OLA	A	1209	9/20	0.84	0.15	35,39,57,61	0
4	OLA	A	1211	16/20	0.84	0.14	36,42,66,78	0
4	OLA	A	1220	10/20	0.85	0.15	41,47,57,63	0
4	OLA	A	1210	14/20	0.86	0.14	40,47,57,61	0
4	OLA	A	1215	13/20	0.87	0.14	36,40,58,63	0
4	OLA	A	1208	20/20	0.87	0.14	35,43,64,67	0
4	OLA	A	1204	14/20	0.87	0.17	22,36,49,66	0
4	OLA	A	1207	9/20	0.87	0.13	34,37,44,44	0
4	OLA	A	1205	17/20	0.88	0.14	32,43,48,51	0
4	OLA	A	1218	18/20	0.90	0.12	33,42,55,62	0
4	OLA	A	1214	8/20	0.90	0.12	31,40,45,45	0
5	NA	A	1228	1/1	0.90	0.18	41,41,41,41	0
2	JQ9	A	1201	28/28	0.95	0.08	15,25,44,49	0
3	CLR	A	1202	28/28	0.95	0.07	17,24,39,50	0
3	CLR	A	1203	28/28	0.95	0.08	19,24,45,57	0

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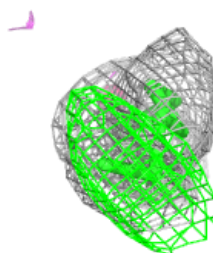
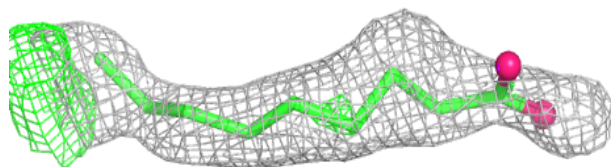
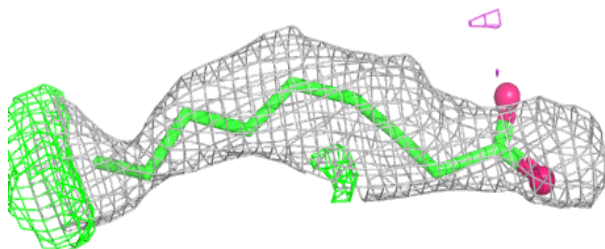
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	CLR	A	1206	28/28	0.95	0.07	21,26,35,46	0

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.

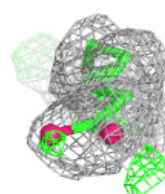
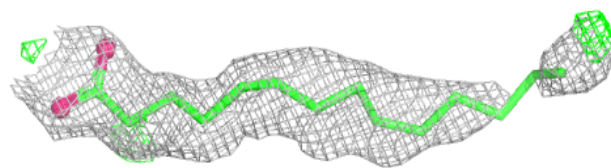
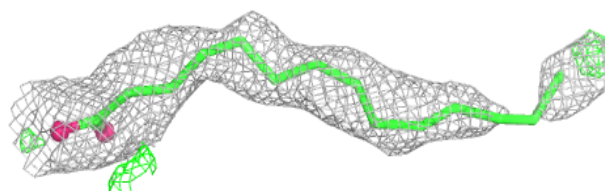


Electron density around OLA A 1223:

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

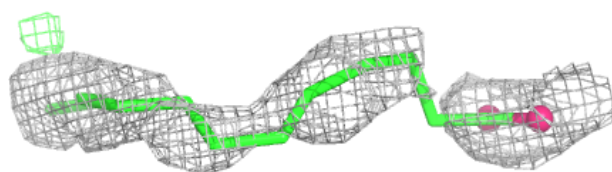
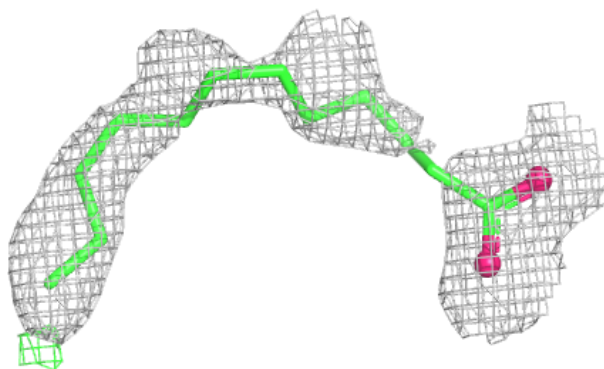
**Electron density around OLA A 1225:**

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

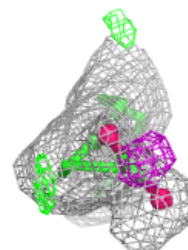
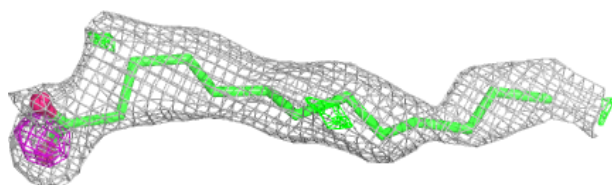
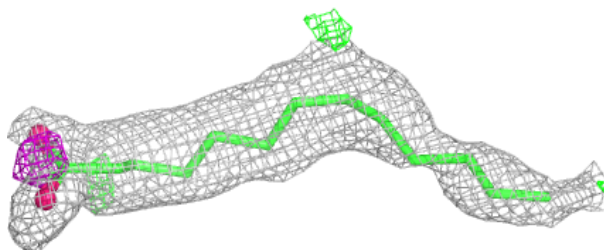


Electron density around OLA A 1227:

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

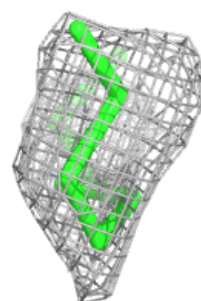
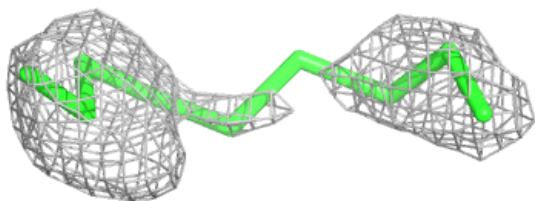
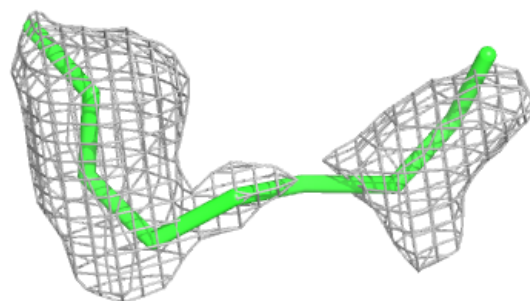
**Electron density around OLA A 1212:**

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

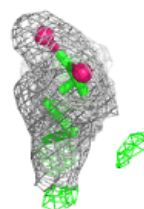
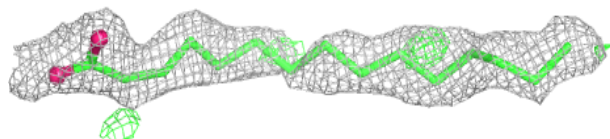
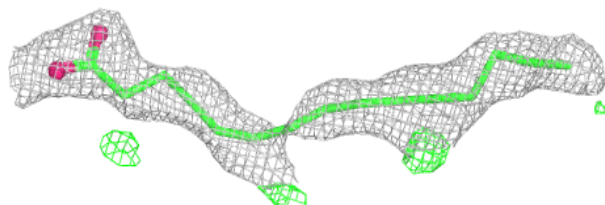


Electron density around OLA A 1224:

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

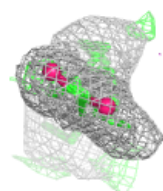
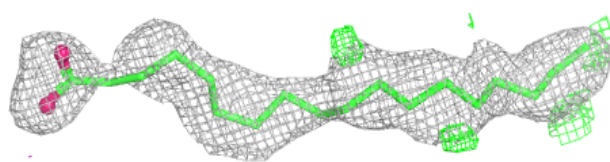
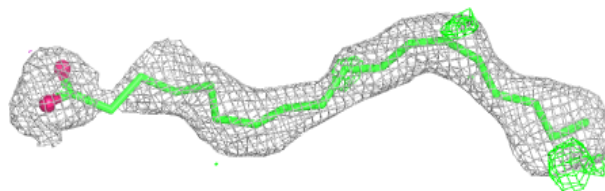
**Electron density around OLA A 1221:**

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

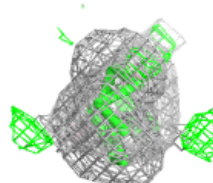
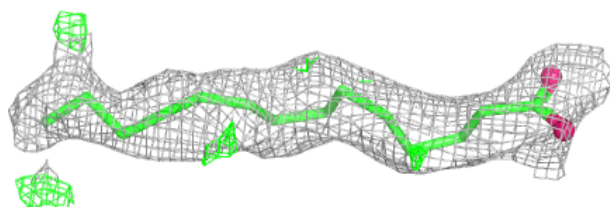


Electron density around OLA A 1226:

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

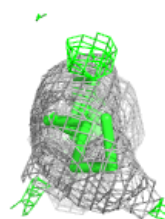
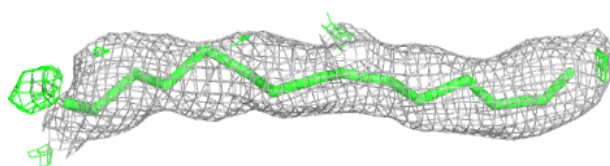
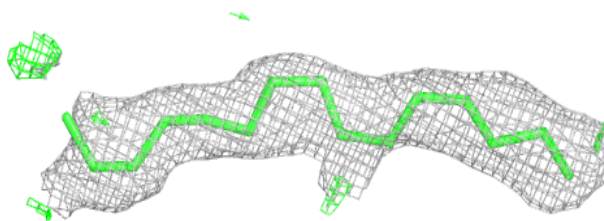
**Electron density around OLA A 1217:**

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

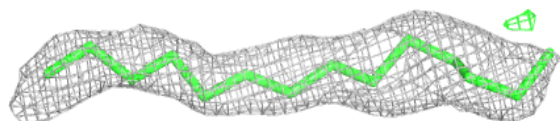
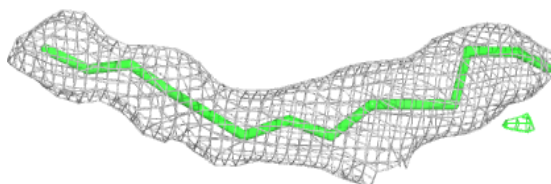


Electron density around OLA A 1216:

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

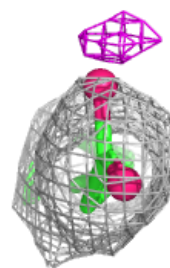
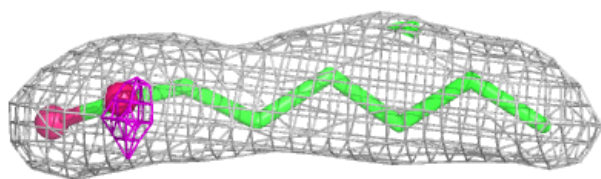
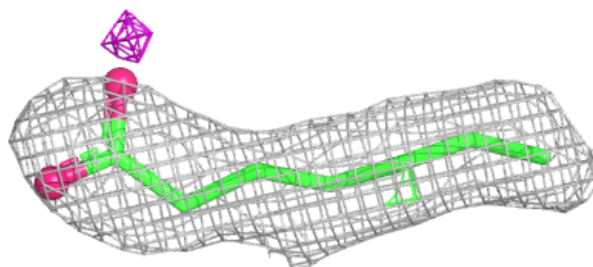
**Electron density around OLA A 1219:**

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

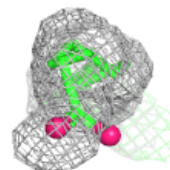
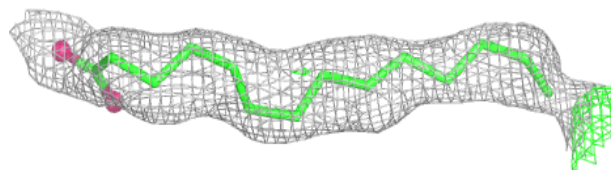
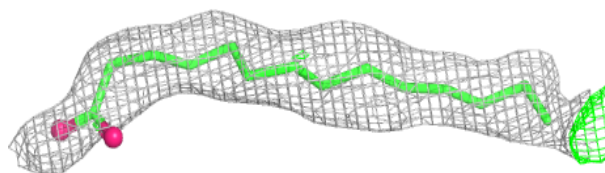


Electron density around OLA A 1209:

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

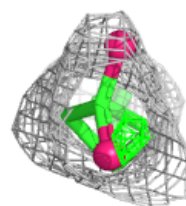
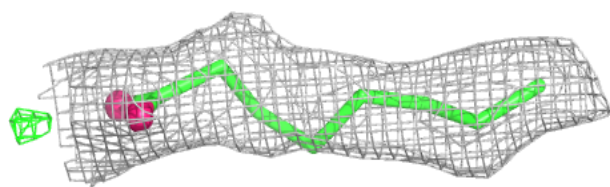
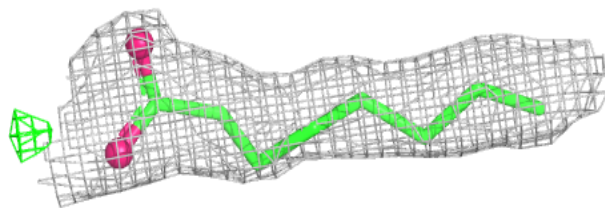
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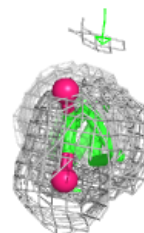
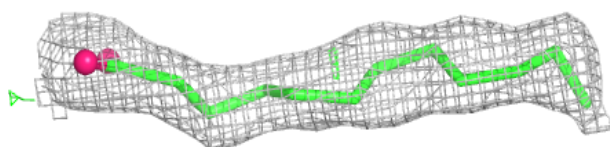
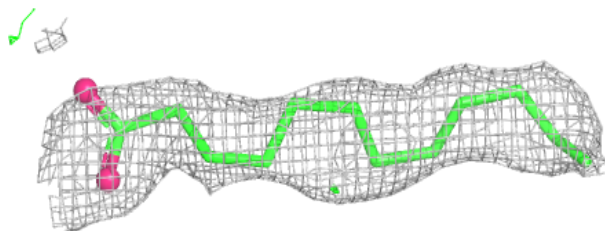


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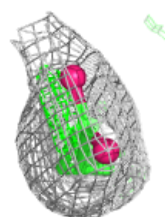
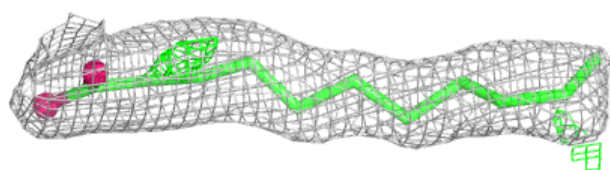
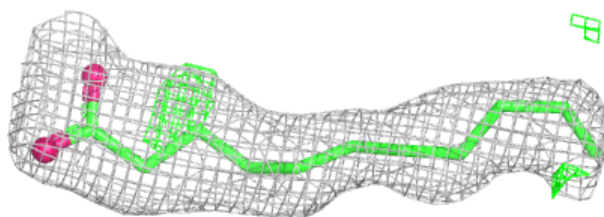
**Electron density around OLA A 1210:**

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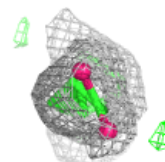
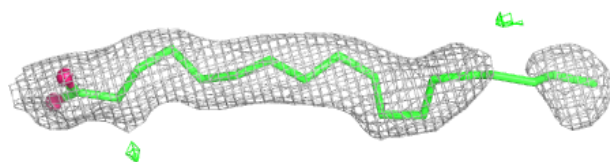
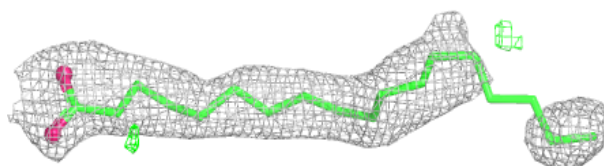


Electron density around OLA A 1215:

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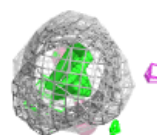
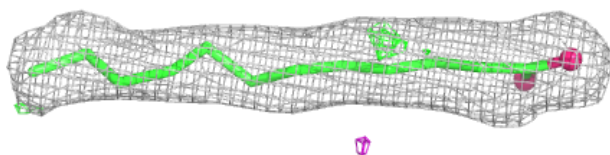
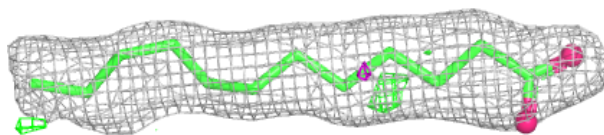
**Electron density around OLA A 1208:**

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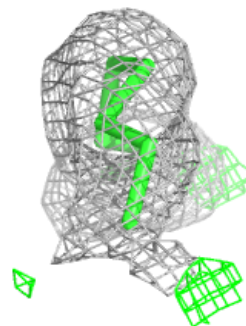
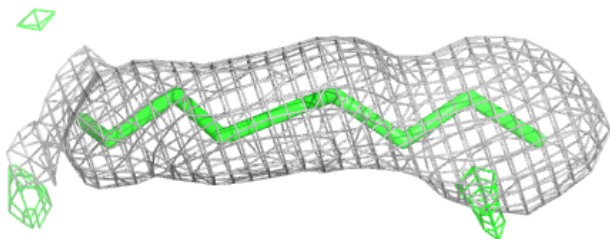
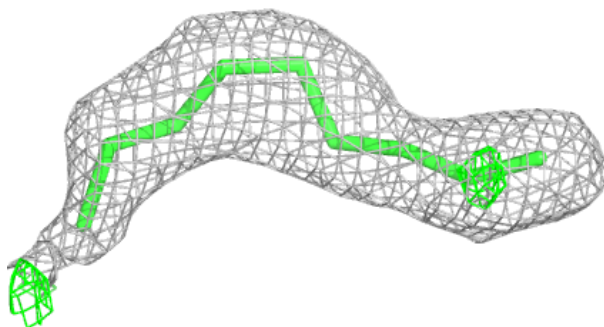


Electron density around OLA A 1204:

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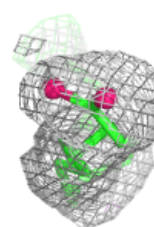
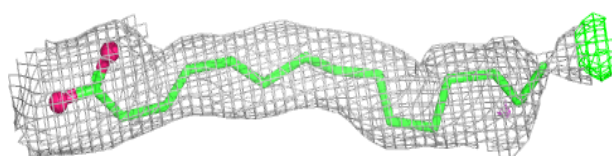
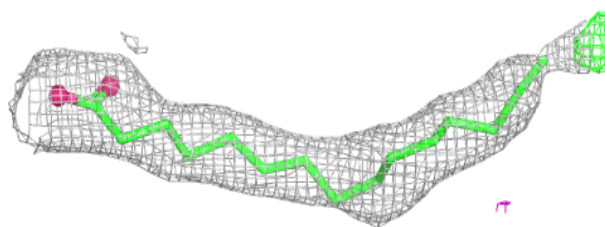
**Electron density around OLA A 1207:**

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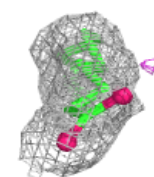
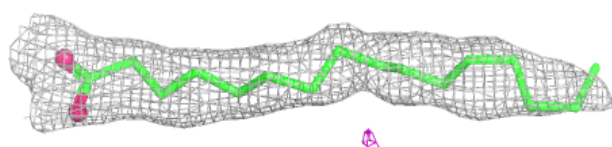
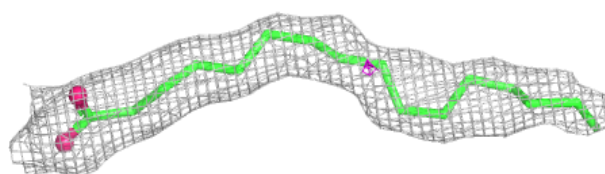


Electron density around OLA A 1205:

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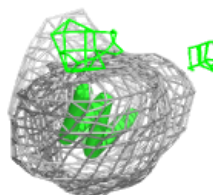
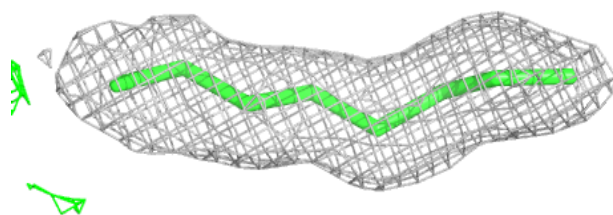
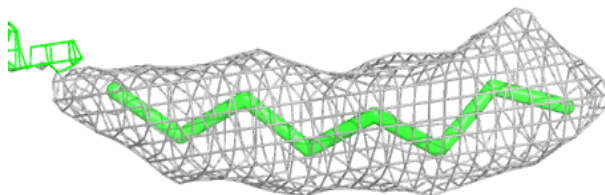
**Electron density around OLA A 1218:**

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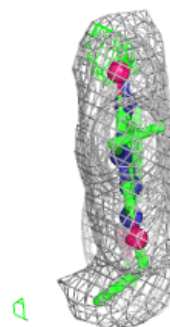
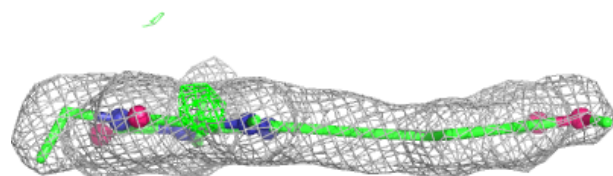
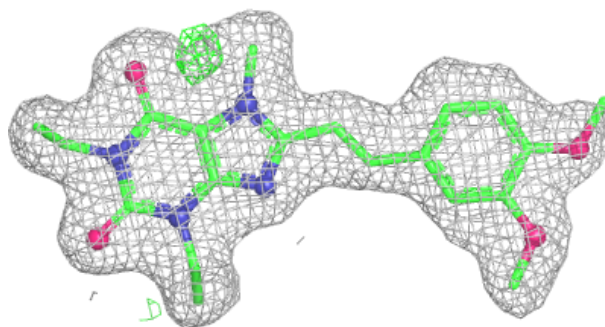


Electron density around OLA A 1214:

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

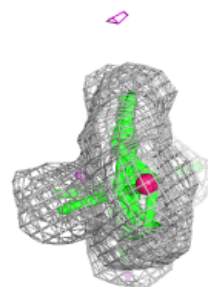
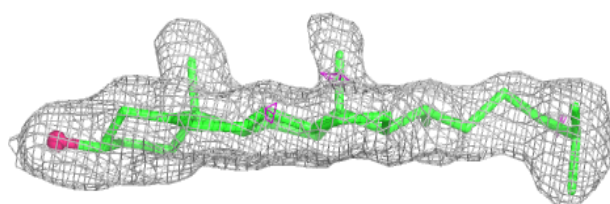
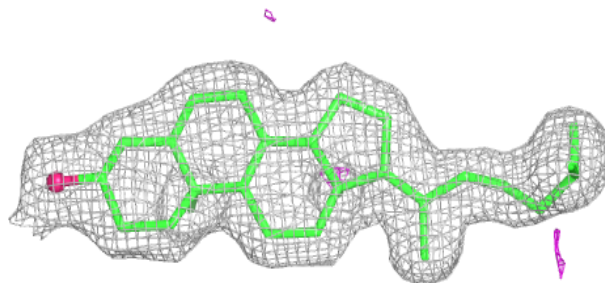
**Electron density around JQ9 A 1201:**

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

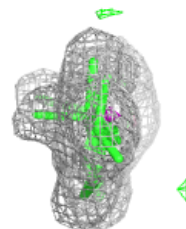
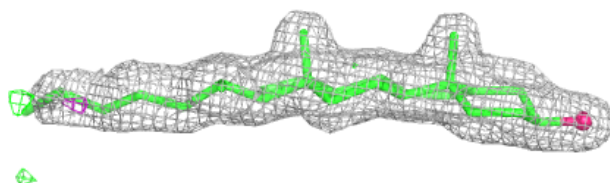
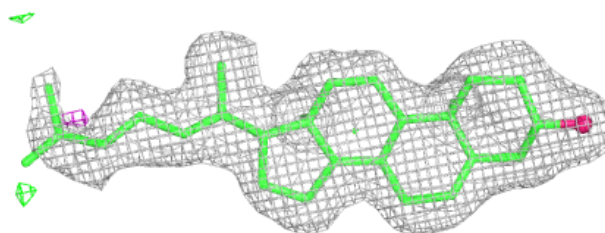


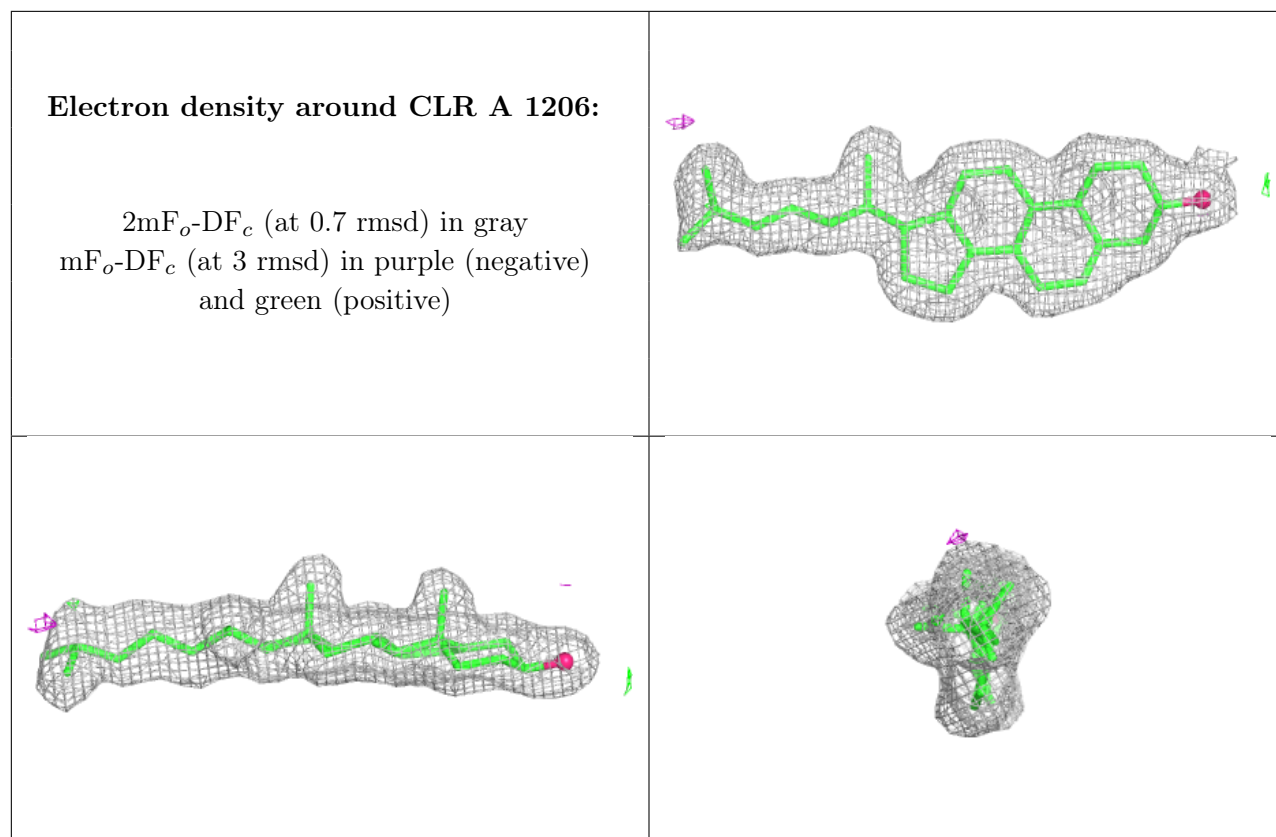
Electron density around CLR A 1202:

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

**Electron density around CLR A 1203:**

$2mF_o-DF_c$ (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.