



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 12:25 PM UTC

PDB ID : 6UXO / pdb_00006uxo
Title : Crystal structure of BAK core domain BH3-groove-dimer in complex with DDM
Authors : Cowan, A.D.; Colman, P.M.; Czabotar, P.E.
Deposited on : 2019-11-07
Resolution : 1.80 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:

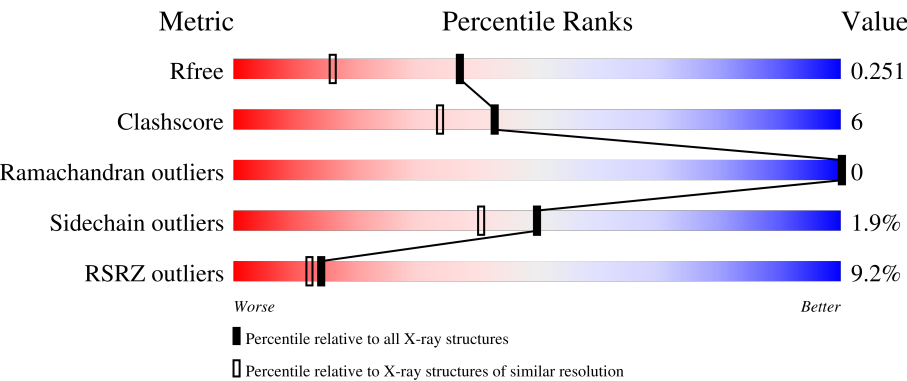
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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 i

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

The reported resolution of this entry is 1.80 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	85	14% 76% 16% • 6%
1	B	85	7% 74% 16% • 8%
1	C	85	6% 91% 5% 5%
1	D	85	7% 86% 7% 7%
1	E	85	11% 81% 13% 6%

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Mol	Chain	Length	Quality of chain
1	F	85	
1	G	85	
1	H	85	
1	I	85	
1	J	85	
1	K	85	
1	L	85	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 9090 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 Bcl-2 homologous antagonist/killer.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	80	Total	C	N	O	S	0	0	0
			640	408	112	118	2			
1	B	78	Total	C	N	O	S	0	1	0
			629	401	110	116	2			
1	C	81	Total	C	N	O	S	0	0	0
			644	410	113	119	2			
1	D	79	Total	C	N	O	S	0	0	0
			634	405	111	116	2			
1	E	80	Total	C	N	O	S	0	0	0
			640	408	112	118	2			
1	F	79	Total	C	N	O	S	0	0	0
			634	405	111	116	2			
1	G	81	Total	C	N	O	S	0	1	0
			652	415	114	120	3			
1	H	78	Total	C	N	O	S	0	1	0
			635	404	112	117	2			
1	I	81	Total	C	N	O	S	0	0	0
			644	410	113	119	2			
1	J	78	Total	C	N	O	S	0	0	0
			626	399	110	115	2			
1	K	79	Total	C	N	O	S	0	1	0
			642	410	112	117	3			
1	L	81	Total	C	N	O	S	0	1	0
			655	417	114	121	3			

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	64	GLY	-	expression tag	UNP Q16611
A	65	PRO	-	expression tag	UNP Q16611
A	66	LEU	-	expression tag	UNP Q16611
A	67	GLY	-	expression tag	UNP Q16611
B	64	GLY	-	expression tag	UNP Q16611

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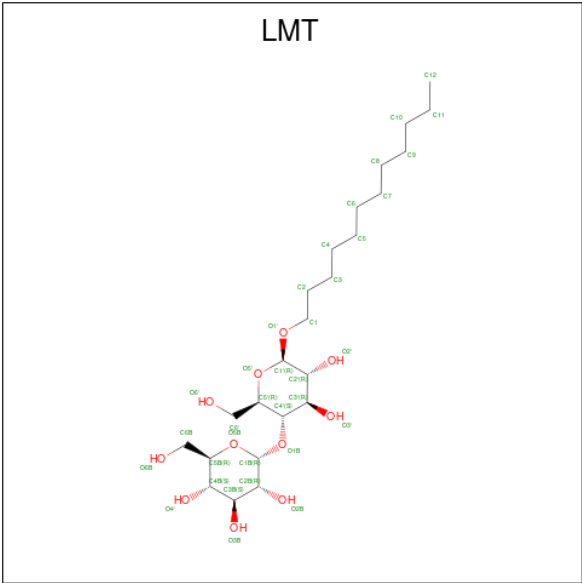
Chain	Residue	Modelled	Actual	Comment	Reference
B	65	PRO	-	expression tag	UNP Q16611
B	66	LEU	-	expression tag	UNP Q16611
B	67	GLY	-	expression tag	UNP Q16611
C	64	GLY	-	expression tag	UNP Q16611
C	65	PRO	-	expression tag	UNP Q16611
C	66	LEU	-	expression tag	UNP Q16611
C	67	GLY	-	expression tag	UNP Q16611
D	64	GLY	-	expression tag	UNP Q16611
D	65	PRO	-	expression tag	UNP Q16611
D	66	LEU	-	expression tag	UNP Q16611
D	67	GLY	-	expression tag	UNP Q16611
E	64	GLY	-	expression tag	UNP Q16611
E	65	PRO	-	expression tag	UNP Q16611
E	66	LEU	-	expression tag	UNP Q16611
E	67	GLY	-	expression tag	UNP Q16611
F	64	GLY	-	expression tag	UNP Q16611
F	65	PRO	-	expression tag	UNP Q16611
F	66	LEU	-	expression tag	UNP Q16611
F	67	GLY	-	expression tag	UNP Q16611
G	64	GLY	-	expression tag	UNP Q16611
G	65	PRO	-	expression tag	UNP Q16611
G	66	LEU	-	expression tag	UNP Q16611
G	67	GLY	-	expression tag	UNP Q16611
H	64	GLY	-	expression tag	UNP Q16611
H	65	PRO	-	expression tag	UNP Q16611
H	66	LEU	-	expression tag	UNP Q16611
H	67	GLY	-	expression tag	UNP Q16611
I	64	GLY	-	expression tag	UNP Q16611
I	65	PRO	-	expression tag	UNP Q16611
I	66	LEU	-	expression tag	UNP Q16611
I	67	GLY	-	expression tag	UNP Q16611
J	64	GLY	-	expression tag	UNP Q16611
J	65	PRO	-	expression tag	UNP Q16611
J	66	LEU	-	expression tag	UNP Q16611
J	67	GLY	-	expression tag	UNP Q16611
K	64	GLY	-	expression tag	UNP Q16611
K	65	PRO	-	expression tag	UNP Q16611
K	66	LEU	-	expression tag	UNP Q16611
K	67	GLY	-	expression tag	UNP Q16611
L	64	GLY	-	expression tag	UNP Q16611
L	65	PRO	-	expression tag	UNP Q16611
L	66	LEU	-	expression tag	UNP Q16611

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Chain	Residue	Modelled	Actual	Comment	Reference
L	67	GLY	-	expression tag	UNP Q16611

- Molecule 2 is DODECYL-BETA-D-MALTOSE (CCD ID: LMT) (formula: C₂₄H₄₆O₁₁) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			35	24	11		
2	A	1	Total	C	O	0	0
			23	16	7		
2	B	1	Total	C		0	0
			12	12			
2	C	1	Total	C	O	0	0
			35	24	11		
2	C	1	Total	C	O	0	0
			35	24	11		
2	C	1	Total	C	O	0	0
			35	24	11		
2	D	1	Total	C	O	0	0
			23	18	5		
2	E	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			30	19	11		
2	E	1	Total	C	O	0	0
			24	18	6		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	F	1	Total	C	O	0	0
			35	24	11		
2	F	1	Total	C	O	0	0
			35	24	11		
2	G	1	Total	C	O	0	1
			70	48	22		
2	G	1	Total	C	O	0	0
			35	24	11		
2	H	1	Total	C	O	0	0
			31	20	11		
2	H	1	Total	C	O	0	0
			35	24	11		
2	I	1	Total	C	O	0	0
			35	24	11		
2	I	1	Total	C	O	0	0
			35	24	11		
2	J	1	Total	C	O	0	0
			35	24	11		
2	J	1	Total	C	O	0	0
			35	24	11		
2	J	1	Total	C	O	0	0
			28	20	8		
2	K	1	Total	C	O	0	0
			35	24	11		
2	K	1	Total	C	O	0	0
			35	24	11		
2	L	1	Total	C	O	0	0
			24	18	6		

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



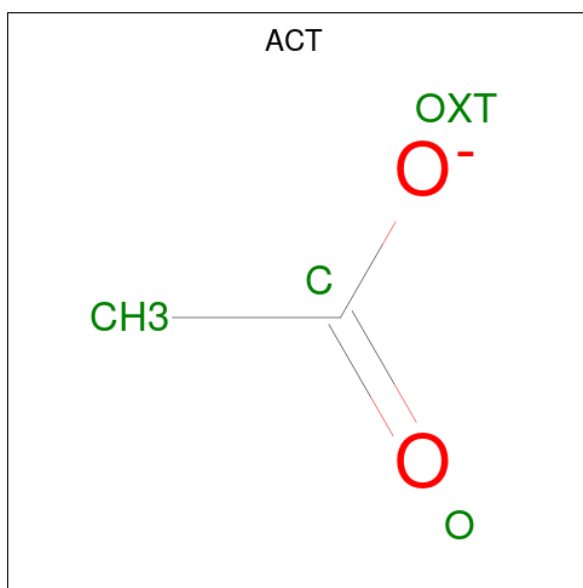
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	C	1	Total	O	S	0	0
			5	4	1		
3	C	1	Total	O	S	0	0
			5	4	1		
3	C	1	Total	O	S	0	0
			5	4	1		
3	D	1	Total	O	S	0	0
			5	4	1		
3	D	1	Total	O	S	0	0
			5	4	1		
3	D	1	Total	O	S	0	0
			5	4	1		
3	E	1	Total	O	S	0	0
			5	4	1		

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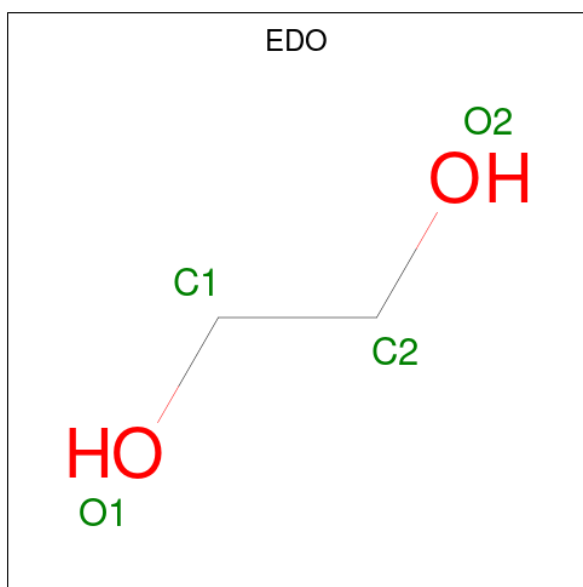
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	E	1	Total	O	S	0	0
			5	4	1		
3	E	1	Total	O	S	0	0
			5	4	1		
3	F	1	Total	O	S	0	0
			5	4	1		
3	F	1	Total	O	S	0	0
			5	4	1		
3	G	1	Total	O	S	0	0
			5	4	1		
3	G	1	Total	O	S	0	0
			5	4	1		
3	G	1	Total	O	S	0	0
			5	4	1		
3	G	1	Total	O	S	0	0
			5	4	1		
3	H	1	Total	O	S	0	0
			5	4	1		
3	H	1	Total	O	S	0	0
			5	4	1		
3	H	1	Total	O	S	0	0
			5	4	1		
3	I	1	Total	O	S	0	0
			5	4	1		
3	I	1	Total	O	S	0	0
			5	4	1		
3	J	1	Total	O	S	0	0
			5	4	1		
3	J	1	Total	O	S	0	0
			5	4	1		
3	J	1	Total	O	S	0	0
			5	4	1		
3	J	1	Total	O	S	0	0
			5	4	1		
3	K	1	Total	O	S	0	0
			5	4	1		
3	K	1	Total	O	S	0	0
			5	4	1		
3	L	1	Total	O	S	0	0
			5	4	1		
3	L	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is ACETATE ION (CCD ID: ACT) (formula: $\text{C}_2\text{H}_3\text{O}_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		
4	C	1	Total	C	O	0	0
			4	2	2		
4	E	1	Total	C	O	0	0
			4	2	2		
4	G	1	Total	C	O	0	0
			4	2	2		
4	I	1	Total	C	O	0	0
			4	2	2		
4	K	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $\text{C}_2\text{H}_6\text{O}_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	D	1	Total	C	O	0	0
			4	2	2		
5	E	1	Total	C	O	0	0
			4	2	2		
5	E	1	Total	C	O	0	0
			4	2	2		
5	E	1	Total	C	O	0	0
			4	2	2		
5	F	1	Total	C	O	0	0
			4	2	2		
5	F	1	Total	C	O	0	0
			4	2	2		
5	F	1	Total	C	O	0	0
			4	2	2		
5	F	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	G	1	Total C O 4 2 2	0	0
5	G	1	Total C O 4 2 2	0	0
5	H	1	Total C O 4 2 2	0	0
5	I	1	Total C O 4 2 2	0	0
5	I	1	Total C O 4 2 2	0	0
5	J	1	Total C O 4 2 2	0	0
5	J	1	Total C O 4 2 2	0	0
5	K	1	Total C O 4 2 2	0	0
5	L	1	Total C O 4 2 2	0	0
5	L	1	Total C O 4 2 2	0	0
5	L	1	Total C O 4 2 2	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	25	Total O 25 25	0	0
6	B	33	Total O 33 33	0	0
6	C	28	Total O 28 28	0	0
6	D	21	Total O 21 21	0	0
6	E	35	Total O 35 35	0	0
6	F	25	Total O 25 25	0	0
6	G	23	Total O 23 23	0	0
6	H	23	Total O 23 23	0	0

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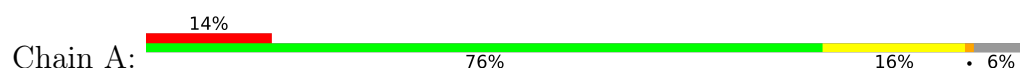
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	I	32	Total 32	O 32	0	0
6	J	22	Total 22	O 22	0	0
6	K	29	Total 29	O 29	0	0
6	L	30	Total 30	O 30	0	0

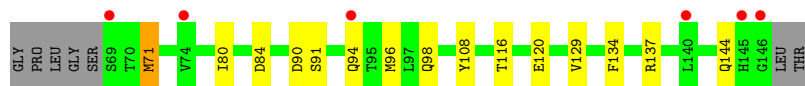
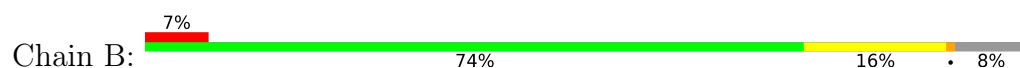
3 Residue-property plots [i](#)

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.

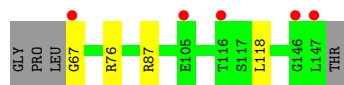
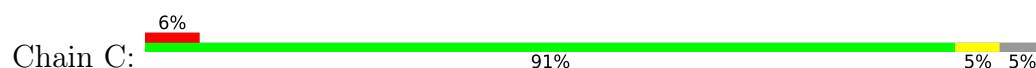
- Molecule 1: Bcl-2 homologous antagonist/killer



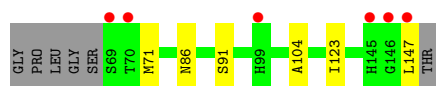
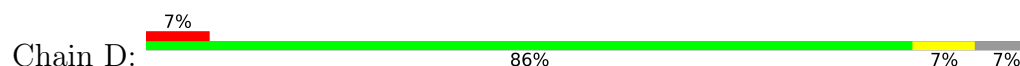
- Molecule 1: Bcl-2 homologous antagonist/killer



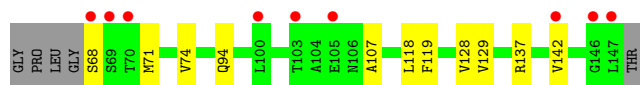
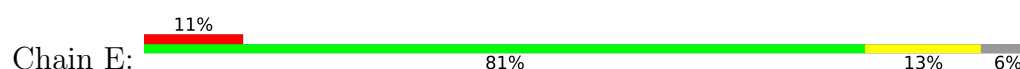
- Molecule 1: Bcl-2 homologous antagonist/killer



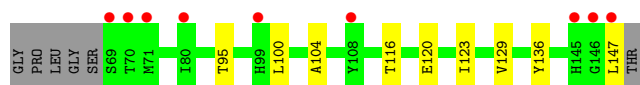
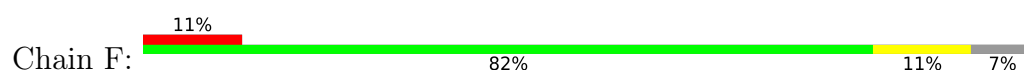
- Molecule 1: Bcl-2 homologous antagonist/killer



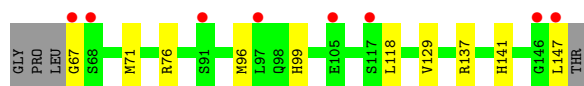
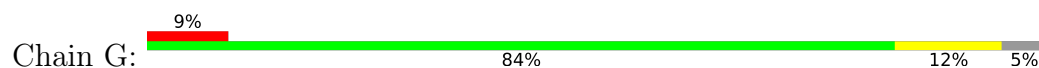
- Molecule 1: Bcl-2 homologous antagonist/killer



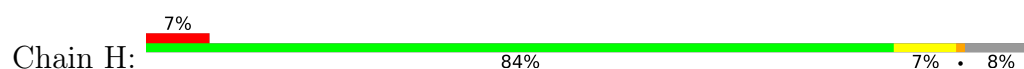
- Molecule 1: Bcl-2 homologous antagonist/killer



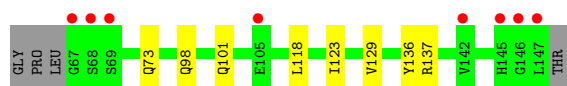
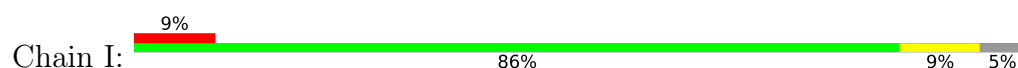
- Molecule 1: Bcl-2 homologous antagonist/killer



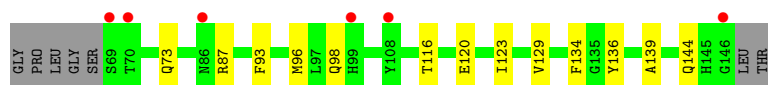
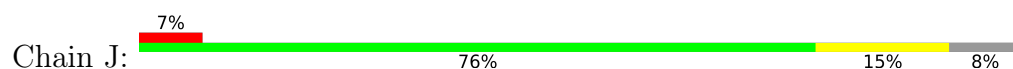
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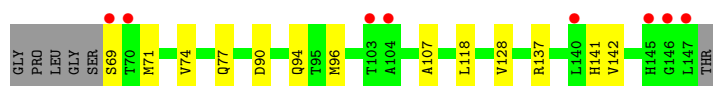
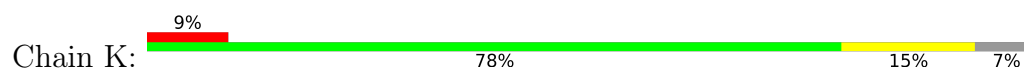
- Molecule 1: Bcl-2 homologous antagonist/killer



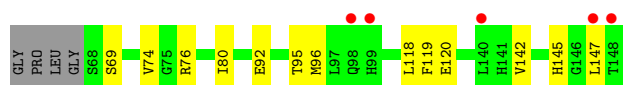
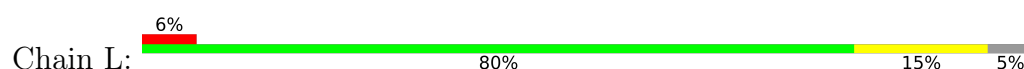
- Molecule 1: Bcl-2 homologous antagonist/killer



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- Molecule 1: Bcl-2 homologous antagonist/killer



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	158.94Å 91.83Å 95.72Å 90.00° 107.52° 90.00°	Depositor
Resolution (Å)	39.45 – 1.80 39.45 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.2 (39.45-1.80) 88.1 (39.45-1.80)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.21 (at 1.79Å)	Xtriage
Refinement program	PHENIX 1.14	Depositor
R, R_{free}	0.212 , 0.250 0.213 , 0.251	Depositor DCC
R_{free} test set	2000 reflections (1.65%)	wwPDB-VP
Wilson B-factor (Å ²)	25.6	Xtriage
Anisotropy	0.140	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 64.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9090	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 44.13 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.5949e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: SO4, LMT, EDO, ACT

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	0.33	0/654	0.47	0/884
1	B	0.35	0/646	0.47	0/873
1	C	0.29	0/658	0.46	0/889
1	D	0.31	0/648	0.52	0/876
1	E	0.36	0/654	0.52	0/884
1	F	0.37	0/648	0.56	0/876
1	G	0.29	0/666	0.43	0/899
1	H	0.31	0/649	0.48	0/877
1	I	0.36	0/658	0.50	0/889
1	J	0.39	0/640	0.53	0/865
1	K	0.34	0/656	0.51	0/886
1	L	0.37	0/669	0.52	0/904
All	All	0.34	0/7846	0.50	0/10602

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	640	0	620	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	629	0	609	14	0
1	C	644	0	623	3	0
1	D	634	0	615	4	0
1	E	640	0	620	10	0
1	F	634	0	615	9	0
1	G	652	0	631	6	0
1	H	635	0	611	7	0
1	I	644	0	623	6	0
1	J	626	0	604	12	0
1	K	642	0	623	11	0
1	L	655	0	635	13	0
2	A	58	0	65	2	0
2	B	12	0	23	1	0
2	C	105	0	135	5	0
2	D	23	0	34	0	0
2	E	89	0	113	3	0
2	F	70	0	91	5	0
2	G	105	0	133	3	0
2	H	66	0	81	1	0
2	I	70	0	92	2	0
2	J	98	0	129	7	0
2	K	70	0	91	2	0
2	L	24	0	35	1	0
3	A	15	0	0	0	0
3	B	15	0	0	2	0
3	C	20	0	0	1	0
3	D	15	0	0	0	0
3	E	15	0	0	1	0
3	F	10	0	0	0	0
3	G	20	0	0	1	0
3	H	15	0	0	1	0
3	I	10	0	0	0	0
3	J	20	0	0	1	0
3	K	10	0	0	1	0
3	L	10	0	0	0	0
4	A	4	0	3	0	0
4	C	4	0	3	0	0
4	E	4	0	3	0	0
4	G	4	0	3	0	0
4	I	4	0	3	0	0
4	K	4	0	3	0	0
5	A	4	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	20	0	30	1	0
5	D	4	0	6	0	0
5	E	12	0	18	1	0
5	F	16	0	24	2	0
5	G	8	0	12	0	0
5	H	4	0	6	0	0
5	I	8	0	12	0	0
5	J	8	0	12	1	0
5	K	4	0	6	0	0
5	L	12	0	18	2	0
6	A	25	0	0	1	0
6	B	33	0	0	1	0
6	C	28	0	0	3	0
6	D	21	0	0	1	0
6	E	35	0	0	1	0
6	F	25	0	0	0	0
6	G	23	0	0	0	0
6	H	23	0	0	2	0
6	I	32	0	0	3	0
6	J	22	0	0	1	0
6	K	29	0	0	2	0
6	L	30	0	0	2	0
All	All	9090	0	8619	108	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 6.

All (108) 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:K:137:ARG:NH1	6:K:301:HOH:O	2.11	0.83
1:L:145:HIS:HB2	1:L:147:LEU:HD11	1.62	0.82
1:A:74:VAL:HG13	1:B:96:MET:HE3	1.63	0.81
1:I:98:GLN:O	1:I:101:GLN:NE2	2.16	0.76
1:J:98:GLN:OE1	6:J:301:HOH:O	2.07	0.72
1:J:93:PHE:HA	1:J:96:MET:HE2	1.73	0.70
1:G:141:HIS:ND1	3:G:501:SO4:O2	2.25	0.70
1:L:142:VAL:HA	1:L:147:LEU:HD13	1.75	0.69
1:H:137:ARG:NH1	6:H:301:HOH:O	2.21	0.66
1:C:67:GLY:N	6:C:304:HOH:O	2.31	0.64
1:G:67:GLY:HA2	1:G:76:ARG:NH1	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:74:VAL:HG13	1:L:96[B]:MET:HE2	1.79	0.63
1:L:76:ARG:HB3	5:L:205:EDO:H11	1.79	0.62
1:E:94:GLN:OE1	1:E:137:ARG:NH2	2.25	0.62
1:I:123:ILE:HG12	2:J:201:LMT:H12	1.81	0.62
1:F:104:ALA:H	1:F:147:LEU:HD22	1.65	0.62
2:F:201:LMT:H111	2:F:202:LMT:H123	1.82	0.61
1:L:80:ILE:HD11	5:L:205:EDO:H12	1.82	0.61
1:B:144:GLN:NE2	3:B:203:SO4:O1	2.33	0.61
1:E:94:GLN:NE2	6:E:303:HOH:O	2.33	0.61
3:B:201:SO4:O2	6:B:301:HOH:O	2.16	0.60
1:D:91:SER:OG	6:D:301:HOH:O	2.16	0.60
1:H:94:GLN:NE2	3:H:204:SO4:O4	2.34	0.60
1:B:94:GLN:HG2	1:B:137:ARG:HH22	1.69	0.58
1:H:136:TYR:HE2	2:H:201:LMT:H6E	1.69	0.58
1:B:96:MET:HE2	1:B:134:PHE:CE1	2.39	0.57
1:F:95:THR:HG21	1:L:95:THR:HG21	1.87	0.57
1:K:96:MET:HE3	1:L:74:VAL:HG13	1.87	0.56
1:F:104:ALA:H	1:F:147:LEU:CD2	2.19	0.56
1:I:73:GLN:NE2	6:I:303:HOH:O	2.39	0.55
1:G:96[A]:MET:HE3	1:H:74:VAL:HG13	1.89	0.54
1:E:119:PHE:HB3	2:E:203:LMT:H11	1.89	0.54
1:I:137:ARG:NH1	6:I:302:HOH:O	2.30	0.54
1:A:70:THR:HB	1:A:71:MET:HE3	1.91	0.53
2:A:201:LMT:H82	2:B:202:LMT:H122	1.90	0.53
5:F:207:EDO:HO2	5:F:208:EDO:HO1	1.56	0.53
1:B:116:THR:O	1:B:120:GLU:HG3	2.09	0.53
5:F:206:EDO:H11	5:F:207:EDO:H12	1.91	0.52
1:K:128:VAL:HG21	2:K:201:LMT:H41	1.90	0.52
1:H:71:MET:HE3	1:H:71:MET:H	1.75	0.52
1:C:76:ARG:NH2	6:C:303:HOH:O	2.30	0.52
1:F:116:THR:O	1:F:120:GLU:HG3	2.09	0.51
2:I:205:LMT:O2B	6:I:301:HOH:O	2.19	0.51
1:J:139:ALA:HB3	2:J:203:LMT:H61	1.93	0.51
3:C:202:SO4:O2	6:C:301:HOH:O	2.17	0.51
1:H:87:ARG:NH1	6:H:303:HOH:O	2.40	0.51
1:A:114:ILE:HG13	1:B:71:MET:HG3	1.93	0.50
1:L:145:HIS:HB2	1:L:147:LEU:CD1	2.36	0.50
1:A:136:TYR:HB2	2:E:201:LMT:H92	1.93	0.49
1:B:90:ASP:O	1:B:94:GLN:HG3	2.12	0.49
1:J:116:THR:O	1:J:120:GLU:HG3	2.13	0.49
1:E:107:ALA:HB2	1:E:142:VAL:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:144:GLN:OE1	2:J:203:LMT:O3'	2.26	0.48
1:K:90:ASP:O	1:K:94:GLN:HG3	2.13	0.48
2:J:203:LMT:H1B	2:J:203:LMT:H3'	1.67	0.48
1:J:96:MET:HE3	1:J:134:PHE:CE1	2.49	0.47
1:D:104:ALA:H	1:D:147:LEU:HB3	1.79	0.47
1:I:129:VAL:HB	1:J:129:VAL:HB	1.97	0.47
1:K:71[B]:MET:HE2	1:K:71[B]:MET:H	1.80	0.47
2:A:202:LMT:O3'	2:A:202:LMT:O2B	2.23	0.46
2:G:507:LMT:H61	1:I:136:TYR:CD1	2.50	0.46
6:A:302:HOH:O	1:C:87:ARG:HG3	2.16	0.46
1:A:93:PHE:HA	1:A:96:MET:HE2	1.98	0.45
2:C:208:LMT:H21	1:F:123:ILE:HG12	1.97	0.45
1:G:129:VAL:HB	1:H:129:VAL:HB	1.98	0.45
1:B:94:GLN:HG2	1:B:137:ARG:NH2	2.31	0.45
1:J:73:GLN:HG2	1:L:120:GLU:O	2.16	0.45
1:A:94:GLN:HG2	1:A:137:ARG:HH21	1.83	0.44
1:G:99:HIS:HA	2:G:507:LMT:H2B	2.00	0.44
1:K:69:SER:HA	3:K:203:SO4:O2	2.18	0.44
1:K:107:ALA:HB2	1:K:142:VAL:HG21	2.00	0.44
1:L:92:GLU:HG3	6:L:307:HOH:O	2.18	0.44
1:A:78:LEU:HD21	1:B:96:MET:HE1	2.00	0.44
1:D:71:MET:HE3	1:D:71:MET:H	1.83	0.44
2:J:203:LMT:H41	2:J:203:LMT:H72	1.75	0.43
2:C:201:LMT:H111	2:C:201:LMT:H82	1.75	0.43
1:E:128:VAL:HG11	2:F:201:LMT:H51	2.00	0.43
2:J:202:LMT:H2'	5:J:209:EDO:H12	2.00	0.43
2:K:201:LMT:H6'2	2:K:201:LMT:H1B	1.81	0.43
2:F:202:LMT:H6D	2:F:202:LMT:O2B	2.18	0.43
1:K:77:GLN:HB2	1:L:96[B]:MET:HE3	2.01	0.43
1:J:87:ARG:NE	3:J:207:SO4:O2	2.31	0.42
1:E:94:GLN:NE2	3:E:204:SO4:O3	2.53	0.42
1:F:100:LEU:HA	1:F:100:LEU:HD23	1.81	0.42
1:F:136:TYR:HE2	2:F:201:LMT:H6E	1.83	0.42
2:G:507:LMT:H21	1:J:123:ILE:HG12	2.01	0.42
1:B:108:TYR:HE1	5:B:207:EDO:H22	1.84	0.42
1:E:129:VAL:HB	1:F:129:VAL:HB	2.01	0.42
1:A:108:TYR:O	1:A:112:THR:HG23	2.20	0.42
1:L:92:GLU:O	1:L:96[A]:MET:HG3	2.19	0.42
1:B:94:GLN:O	1:B:98:GLN:HG3	2.19	0.42
1:J:73:GLN:NE2	1:L:119:PHE:O	2.52	0.42
1:K:141:HIS:HD2	6:K:327:HOH:O	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:VAL:HB	1:B:129:VAL:HB	2.01	0.41
2:E:203:LMT:H82	2:E:203:LMT:H51	1.67	0.41
2:I:201:LMT:H52	2:I:201:LMT:H21	1.62	0.41
1:E:68:SER:N	1:E:71:MET:HG2	2.36	0.41
1:G:137:ARG:HD2	1:G:137:ARG:HA	1.90	0.41
2:C:207:LMT:H2'	1:D:123:ILE:O	2.21	0.41
1:E:128:VAL:HG21	2:F:201:LMT:H31	2.03	0.40
1:B:91[B]:SER:HB2	6:L:305:HOH:O	2.22	0.40
1:E:74:VAL:HG22	5:E:210:EDO:H12	2.02	0.40
2:L:201:LMT:H112	2:L:201:LMT:H81	1.81	0.40
1:K:137:ARG:HA	1:K:137:ARG:HD2	1.91	0.40
1:A:89:TYR:OH	1:B:84:ASP:OD2	2.37	0.40
2:C:201:LMT:H1B	2:C:201:LMT:H6'2	1.66	0.40
2:C:208:LMT:O2'	1:F:123:ILE:HG23	2.22	0.40
1:J:136:TYR:CE2	2:J:201:LMT:H31	2.56	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	78/85 (92%)	78 (100%)	0	0	100	100
1	B	77/85 (91%)	76 (99%)	1 (1%)	0	100	100
1	C	79/85 (93%)	77 (98%)	2 (2%)	0	100	100
1	D	77/85 (91%)	76 (99%)	1 (1%)	0	100	100
1	E	78/85 (92%)	78 (100%)	0	0	100	100
1	F	77/85 (91%)	77 (100%)	0	0	100	100
1	G	80/85 (94%)	79 (99%)	1 (1%)	0	100	100
1	H	77/85 (91%)	77 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	79/85 (93%)	79 (100%)	0	0	100	100
1	J	76/85 (89%)	76 (100%)	0	0	100	100
1	K	78/85 (92%)	78 (100%)	0	0	100	100
1	L	80/85 (94%)	80 (100%)	0	0	100	100
All	All	936/1020 (92%)	931 (100%)	5 (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	66/69 (96%)	64 (97%)	2 (3%)	36	24
1	B	65/69 (94%)	63 (97%)	2 (3%)	35	23
1	C	66/69 (96%)	65 (98%)	1 (2%)	57	49
1	D	65/69 (94%)	64 (98%)	1 (2%)	57	49
1	E	66/69 (96%)	65 (98%)	1 (2%)	57	49
1	F	65/69 (94%)	65 (100%)	0	100	100
1	G	67/69 (97%)	64 (96%)	3 (4%)	24	12
1	H	65/69 (94%)	64 (98%)	1 (2%)	57	49
1	I	66/69 (96%)	65 (98%)	1 (2%)	57	49
1	J	64/69 (93%)	64 (100%)	0	100	100
1	K	66/69 (96%)	65 (98%)	1 (2%)	57	49
1	L	68/69 (99%)	66 (97%)	2 (3%)	37	25
All	All	789/828 (95%)	774 (98%)	15 (2%)	50	41

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	71	MET

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Mol	Chain	Res	Type
1	A	118	LEU
1	B	71	MET
1	B	80	ILE
1	C	118	LEU
1	D	86	ASN
1	E	118	LEU
1	G	71	MET
1	G	118	LEU
1	G	147	LEU
1	H	71	MET
1	I	118	LEU
1	K	118	LEU
1	L	69	SER
1	L	118	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	94	GLN
1	B	144	GLN
1	C	94	GLN
1	C	141	HIS
1	D	144	GLN
1	E	73	GLN
1	E	86	ASN
1	E	99	HIS
1	F	101	GLN
1	F	144	GLN
1	G	86	ASN
1	H	101	GLN
1	I	86	ASN
1	I	144	GLN
1	K	86	ASN
1	K	141	HIS
1	L	99	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

91 ligands 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).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	SO4	G	502	-	4,4,4	0.23	0	6,6,6	0.14	0
3	SO4	K	203	-	4,4,4	0.24	0	6,6,6	0.09	0
4	ACT	A	206	-	3,3,3	1.33	0	3,3,3	1.40	0
3	SO4	C	205	-	4,4,4	0.24	0	6,6,6	0.09	0
3	SO4	E	204	-	4,4,4	0.29	0	6,6,6	0.08	0
5	EDO	B	206	-	3,3,3	0.43	0	2,2,2	0.40	0
3	SO4	B	201	-	4,4,4	0.29	0	6,6,6	0.14	0
5	EDO	L	204	-	3,3,3	0.34	0	2,2,2	1.04	0
3	SO4	H	202	-	4,4,4	0.25	0	6,6,6	0.05	0
2	LMT	E	201	-	36,36,36	1.05	4 (11%)	47,47,47	0.93	0
3	SO4	A	204	-	4,4,4	0.25	0	6,6,6	0.13	0
2	LMT	F	201	-	36,36,36	1.03	4 (11%)	47,47,47	1.06	4 (8%)
5	EDO	J	209	-	3,3,3	0.43	0	2,2,2	0.30	0
5	EDO	A	207	-	3,3,3	0.43	0	2,2,2	0.38	0
5	EDO	F	208	-	3,3,3	0.45	0	2,2,2	0.41	0
2	LMT	K	202	-	36,36,36	1.03	3 (8%)	47,47,47	1.03	2 (4%)
3	SO4	A	205	-	4,4,4	0.24	0	6,6,6	0.06	0
2	LMT	A	201	-	36,36,36	1.06	3 (8%)	47,47,47	1.02	2 (4%)
3	SO4	J	205	-	4,4,4	0.25	0	6,6,6	0.10	0
2	LMT	J	202	-	36,36,36	1.08	2 (5%)	47,47,47	1.11	5 (10%)
3	SO4	H	205	-	4,4,4	0.25	0	6,6,6	0.14	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	SO4	A	203	-	4,4,4	0.24	0	6,6,6	0.07	0
3	SO4	K	204	-	4,4,4	0.25	0	6,6,6	0.11	0
4	ACT	G	505	-	3,3,3	1.30	0	3,3,3	1.48	0
2	LMT	G	506[B]	-	36,36,36	1.16	6 (16%)	47,47,47	1.13	4 (8%)
2	LMT	G	507	-	36,36,36	1.08	3 (8%)	47,47,47	1.07	2 (4%)
5	EDO	F	207	-	3,3,3	0.39	0	2,2,2	0.48	0
5	EDO	B	209	-	3,3,3	0.43	0	2,2,2	0.40	0
2	LMT	L	201	-	24,24,36	0.99	1 (4%)	29,29,47	1.05	2 (6%)
3	SO4	L	202	-	4,4,4	0.27	0	6,6,6	0.11	0
2	LMT	F	202	-	36,36,36	1.10	4 (11%)	47,47,47	1.09	2 (4%)
3	SO4	L	203	-	4,4,4	0.24	0	6,6,6	0.08	0
3	SO4	G	504	-	4,4,4	0.25	0	6,6,6	0.04	0
2	LMT	I	205	-	36,36,36	1.07	3 (8%)	47,47,47	0.98	2 (4%)
3	SO4	E	206	-	4,4,4	0.23	0	6,6,6	0.09	0
3	SO4	B	203	-	4,4,4	0.23	0	6,6,6	0.11	0
5	EDO	D	205	-	3,3,3	0.46	0	2,2,2	0.40	0
3	SO4	D	204	-	4,4,4	0.23	0	6,6,6	0.12	0
2	LMT	G	506[A]	-	36,36,36	1.10	5 (13%)	47,47,47	1.10	3 (6%)
2	LMT	B	202	-	11,11,36	0.28	0	10,10,47	0.78	0
2	LMT	E	203	-	24,24,36	0.99	2 (8%)	29,29,47	1.14	2 (6%)
3	SO4	F	204	-	4,4,4	0.25	0	6,6,6	0.13	0
3	SO4	G	501	-	4,4,4	0.23	0	6,6,6	0.06	0
3	SO4	I	202	-	4,4,4	0.23	0	6,6,6	0.09	0
5	EDO	I	207	-	3,3,3	0.43	0	2,2,2	0.39	0
5	EDO	B	208	-	3,3,3	0.44	0	2,2,2	0.33	0
5	EDO	E	209	-	3,3,3	0.41	0	2,2,2	0.54	0
4	ACT	I	204	-	3,3,3	1.05	0	3,3,3	1.43	0
5	EDO	J	208	-	3,3,3	0.36	0	2,2,2	0.69	0
5	EDO	B	205	-	3,3,3	0.42	0	2,2,2	0.41	0
3	SO4	D	201	-	4,4,4	0.24	0	6,6,6	0.12	0
3	SO4	D	203	-	4,4,4	0.24	0	6,6,6	0.12	0
2	LMT	H	203	-	36,36,36	1.09	3 (8%)	47,47,47	1.11	3 (6%)
2	LMT	A	202	-	24,24,36	1.53	3 (12%)	29,31,47	1.24	3 (10%)
5	EDO	G	509	-	3,3,3	0.50	0	2,2,2	0.26	0
2	LMT	K	201	-	36,36,36	1.16	4 (11%)	47,47,47	1.03	2 (4%)
3	SO4	J	204	-	4,4,4	0.25	0	6,6,6	0.07	0
2	LMT	C	207	-	36,36,36	1.12	3 (8%)	47,47,47	1.26	3 (6%)
3	SO4	E	205	-	4,4,4	0.22	0	6,6,6	0.13	0
5	EDO	K	206	-	3,3,3	0.46	0	2,2,2	0.30	0
3	SO4	I	203	-	4,4,4	0.25	0	6,6,6	0.12	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	EDO	F	206	-	3,3,3	0.41	0	2,2,2	0.44	0
4	ACT	K	205	-	3,3,3	1.55	1 (33%)	3,3,3	1.43	0
2	LMT	J	201	-	36,36,36	1.16	5 (13%)	47,47,47	0.97	2 (4%)
5	EDO	H	206	-	3,3,3	0.43	0	2,2,2	0.36	0
3	SO4	F	203	-	4,4,4	0.24	0	6,6,6	0.06	0
3	SO4	J	207	-	4,4,4	0.24	0	6,6,6	0.09	0
5	EDO	B	207	-	3,3,3	0.43	0	2,2,2	0.42	0
5	EDO	E	210	-	3,3,3	0.40	0	2,2,2	0.43	0
2	LMT	C	201	-	36,36,36	1.10	4 (11%)	47,47,47	0.86	1 (2%)
2	LMT	C	208	-	36,36,36	1.09	3 (8%)	47,47,47	1.20	6 (12%)
4	ACT	E	207	-	3,3,3	1.50	1 (33%)	3,3,3	1.44	0
2	LMT	D	202	-	23,23,36	1.15	3 (13%)	26,27,47	1.28	3 (11%)
3	SO4	C	203	-	4,4,4	0.23	0	6,6,6	0.17	0
3	SO4	C	204	-	4,4,4	0.23	0	6,6,6	0.07	0
4	ACT	C	206	-	3,3,3	1.19	0	3,3,3	1.37	0
2	LMT	E	202	-	31,31,36	1.18	4 (12%)	42,42,47	1.13	4 (9%)
5	EDO	G	508	-	3,3,3	0.46	0	2,2,2	0.38	0
5	EDO	L	205	-	3,3,3	0.41	0	2,2,2	0.36	0
3	SO4	C	202	-	4,4,4	0.23	0	6,6,6	0.11	0
5	EDO	F	205	-	3,3,3	0.40	0	2,2,2	0.39	0
2	LMT	H	201	-	32,32,36	1.11	3 (9%)	43,43,47	0.97	2 (4%)
3	SO4	B	204	-	4,4,4	0.24	0	6,6,6	0.08	0
5	EDO	L	206	-	3,3,3	0.42	0	2,2,2	0.54	0
2	LMT	I	201	-	36,36,36	1.11	5 (13%)	47,47,47	1.02	2 (4%)
3	SO4	G	503	-	4,4,4	0.24	0	6,6,6	0.08	0
3	SO4	J	206	-	4,4,4	0.25	0	6,6,6	0.10	0
3	SO4	H	204	-	4,4,4	0.24	0	6,6,6	0.07	0
5	EDO	I	206	-	3,3,3	0.36	0	2,2,2	0.69	0
2	LMT	J	203	-	28,28,36	0.90	1 (3%)	32,34,47	1.13	3 (9%)
5	EDO	E	208	-	3,3,3	0.44	0	2,2,2	0.38	0

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
5	EDO	D	205	-	-	1/1/1/1	-
2	LMT	C	201	-	-	7/21/61/61	0/2/2/2
2	LMT	A	201	-	-	6/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LMT	G	506[A]	-	-	13/21/61/61	0/2/2/2
2	LMT	J	202	-	-	9/21/61/61	0/2/2/2
2	LMT	B	202	-	-	5/9/9/61	-
2	LMT	E	203	-	-	11/15/35/61	0/1/1/2
2	LMT	C	208	-	-	9/21/61/61	0/2/2/2
5	EDO	I	207	-	-	1/1/1/1	-
2	LMT	D	202	-	-	10/15/31/61	0/1/1/2
5	EDO	B	206	-	-	0/1/1/1	-
5	EDO	B	208	-	-	0/1/1/1	-
5	EDO	E	209	-	-	0/1/1/1	-
2	LMT	G	506[B]	-	-	6/21/61/61	0/2/2/2
5	EDO	J	208	-	-	1/1/1/1	-
5	EDO	B	205	-	-	0/1/1/1	-
5	EDO	L	204	-	-	1/1/1/1	-
2	LMT	E	202	-	-	11/16/56/61	0/2/2/2
5	EDO	G	508	-	-	1/1/1/1	-
5	EDO	L	205	-	-	0/1/1/1	-
2	LMT	G	507	-	-	10/21/61/61	0/2/2/2
5	EDO	F	207	-	-	1/1/1/1	-
2	LMT	E	201	-	-	7/21/61/61	0/2/2/2
2	LMT	H	203	-	-	7/21/61/61	0/2/2/2
2	LMT	A	202	-	-	6/12/39/61	1/2/2/2
2	LMT	F	201	-	-	9/21/61/61	0/2/2/2
5	EDO	F	205	-	-	0/1/1/1	-
2	LMT	H	201	-	-	4/17/57/61	0/2/2/2
5	EDO	G	509	-	-	0/1/1/1	-
2	LMT	K	201	-	-	9/21/61/61	0/2/2/2
5	EDO	L	206	-	-	1/1/1/1	-
2	LMT	C	207	-	-	13/21/61/61	0/2/2/2
5	EDO	J	209	-	-	0/1/1/1	-
5	EDO	B	209	-	-	0/1/1/1	-
2	LMT	L	201	-	-	6/15/35/61	0/1/1/2
2	LMT	I	201	-	-	16/21/61/61	0/2/2/2
5	EDO	K	206	-	-	0/1/1/1	-
5	EDO	F	206	-	-	0/1/1/1	-
2	LMT	F	202	-	-	14/21/61/61	0/2/2/2
5	EDO	A	207	-	-	1/1/1/1	-
2	LMT	J	201	-	-	6/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	EDO	F	208	-	-	1/1/1/1	-
5	EDO	H	206	-	-	1/1/1/1	-
5	EDO	I	206	-	-	0/1/1/1	-
2	LMT	K	202	-	-	13/21/61/61	0/2/2/2
5	EDO	B	207	-	-	0/1/1/1	-
2	LMT	I	205	-	-	8/21/61/61	0/2/2/2
2	LMT	J	203	-	-	16/21/41/61	0/1/1/2
5	EDO	E	208	-	-	1/1/1/1	-
5	EDO	E	210	-	-	1/1/1/1	-

All (83) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	202	LMT	C1B-C2B	4.90	1.55	1.52
2	A	202	LMT	O3'-C3'	-3.07	1.36	1.43
2	D	202	LMT	O3'-C3'	-2.94	1.37	1.43
2	G	507	LMT	O2'-C2'	-2.83	1.35	1.43
2	A	202	LMT	O2B-C2B	-2.79	1.37	1.43
2	C	208	LMT	O2'-C2'	-2.76	1.36	1.43
2	G	506[A]	LMT	O2B-C2B	-2.61	1.36	1.43
2	G	507	LMT	O3'-C3'	-2.60	1.36	1.43
2	G	506[A]	LMT	O3'-C3'	-2.59	1.36	1.43
2	G	506[B]	LMT	O3'-C3'	-2.52	1.36	1.43
2	E	201	LMT	O3'-C3'	-2.52	1.36	1.43
2	C	207	LMT	O3'-C3'	-2.49	1.36	1.43
2	F	202	LMT	O3'-C3'	-2.47	1.36	1.43
2	G	506[B]	LMT	O1'-C1'	-2.47	1.36	1.40
2	H	203	LMT	O3'-C3'	-2.45	1.36	1.43
2	E	201	LMT	O2'-C2'	-2.44	1.36	1.43
2	I	205	LMT	O2'-C2'	-2.44	1.36	1.43
2	J	201	LMT	O3'-C3'	-2.42	1.37	1.43
2	L	201	LMT	O3'-C3'	-2.42	1.37	1.43
2	E	203	LMT	O3'-C3'	-2.41	1.37	1.43
2	G	506[B]	LMT	O3B-C3B	-2.40	1.37	1.43
2	K	201	LMT	O2B-C2B	-2.40	1.37	1.43
2	C	208	LMT	O3'-C3'	-2.40	1.37	1.43
2	H	201	LMT	O3'-C3'	-2.39	1.37	1.43
2	F	201	LMT	O3'-C3'	-2.37	1.37	1.43
2	I	205	LMT	O3'-C3'	-2.35	1.37	1.43
2	J	201	LMT	O2'-C2'	-2.34	1.37	1.43
2	I	201	LMT	O3'-C3'	-2.34	1.37	1.43
2	E	202	LMT	O3'-C3'	-2.33	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	202	LMT	O3'-C3'	-2.32	1.37	1.43
2	K	201	LMT	O3'-C3'	-2.32	1.37	1.43
2	G	506[A]	LMT	O3B-C3B	-2.32	1.37	1.43
2	K	202	LMT	O3'-C3'	-2.32	1.37	1.43
2	J	203	LMT	O3'-C3'	-2.31	1.37	1.43
2	G	506[B]	LMT	O2'-C2'	-2.31	1.37	1.43
4	K	205	ACT	CH3-C	2.29	1.58	1.49
2	K	201	LMT	O1'-C1'	-2.27	1.36	1.40
2	C	201	LMT	O3'-C3'	-2.24	1.37	1.43
2	J	201	LMT	O3B-C3B	-2.23	1.37	1.43
2	F	201	LMT	O2'-C2'	-2.22	1.37	1.43
2	C	201	LMT	O2'-C2'	-2.22	1.37	1.43
2	F	202	LMT	O3B-C3B	-2.21	1.37	1.43
2	C	207	LMT	O2B-C2B	-2.21	1.37	1.43
2	A	201	LMT	O3B-C3B	-2.21	1.37	1.43
2	C	207	LMT	O3B-C3B	-2.20	1.37	1.43
2	C	201	LMT	O3B-C3B	-2.19	1.37	1.43
2	D	202	LMT	O5'-C5'	-2.18	1.40	1.44
2	E	202	LMT	O1'-C1'	-2.18	1.36	1.40
2	C	201	LMT	O2B-C2B	-2.18	1.37	1.43
2	I	205	LMT	O3B-C3B	-2.17	1.37	1.43
2	H	201	LMT	O2B-C2B	-2.17	1.37	1.43
2	F	201	LMT	O3B-C3B	-2.16	1.37	1.43
2	A	201	LMT	O3'-C3'	-2.14	1.37	1.43
2	F	201	LMT	O2B-C2B	-2.13	1.37	1.43
2	H	203	LMT	O2B-C2B	-2.13	1.37	1.43
2	D	202	LMT	C3'-C2'	2.13	1.55	1.52
2	E	202	LMT	O3B-C3B	-2.12	1.37	1.43
2	F	202	LMT	O2B-C2B	-2.11	1.37	1.43
2	K	202	LMT	O3B-C3B	-2.10	1.37	1.43
4	E	207	ACT	CH3-C	2.10	1.57	1.49
2	I	201	LMT	O3B-C3B	-2.08	1.37	1.43
2	J	201	LMT	O2B-C2B	-2.08	1.37	1.43
2	G	506[A]	LMT	O2'-C2'	-2.08	1.37	1.43
2	I	201	LMT	O1'-C1'	-2.08	1.36	1.40
2	G	507	LMT	O3B-C3B	-2.07	1.37	1.43
2	G	506[B]	LMT	O4'-C4B	-2.07	1.37	1.43
2	K	201	LMT	O3B-C3B	-2.07	1.37	1.43
2	J	202	LMT	O3B-C3B	-2.06	1.37	1.43
2	K	202	LMT	O2B-C2B	-2.06	1.37	1.43
2	H	203	LMT	O3B-C3B	-2.06	1.37	1.43
2	A	201	LMT	O2'-C2'	-2.06	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	208	LMT	O3B-C3B	-2.05	1.37	1.43
2	J	201	LMT	O1'-C1'	-2.05	1.36	1.40
2	H	201	LMT	O3B-C3B	-2.05	1.37	1.43
2	G	506[B]	LMT	O2B-C2B	-2.04	1.37	1.43
2	E	202	LMT	O2'-C2'	-2.03	1.37	1.43
2	E	201	LMT	O3B-C3B	-2.03	1.37	1.43
2	G	506[A]	LMT	O5'-C5'	-2.03	1.39	1.44
2	E	203	LMT	O2'-C2'	-2.02	1.37	1.43
2	E	201	LMT	O4'-C4B	-2.02	1.38	1.43
2	I	201	LMT	O2'-C2'	-2.02	1.38	1.43
2	F	202	LMT	O4'-C4B	-2.01	1.38	1.43
2	I	201	LMT	O2B-C2B	-2.01	1.38	1.43

All (64) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	207	LMT	C1'-O5'-C5'	-3.83	106.24	113.72
2	A	202	LMT	O1'-C1'-C2'	3.80	113.16	109.02
2	D	202	LMT	C3'-C4'-C5'	-3.47	105.32	111.19
2	G	506[B]	LMT	C3'-C4'-C5'	-3.36	103.48	110.93
2	H	203	LMT	C3'-C4'-C5'	-3.19	103.85	110.93
2	G	507	LMT	C1-O1'-C1'	3.17	119.10	113.68
2	C	208	LMT	C1-O1'-C1'	3.16	119.07	113.68
2	J	202	LMT	C1'-O5'-C5'	-3.11	107.64	113.72
2	G	506[A]	LMT	C1'-O5'-C5'	-3.03	107.80	113.72
2	G	507	LMT	C3'-C4'-C5'	-3.02	104.23	110.93
2	C	208	LMT	O1'-C1'-C2'	2.99	112.81	108.27
2	C	207	LMT	C3'-C4'-C5'	-2.92	104.46	110.93
2	I	201	LMT	C1'-O5'-C5'	-2.86	108.14	113.72
2	F	201	LMT	C1-O1'-C1'	2.81	118.48	113.68
2	E	202	LMT	C1'-O5'-C5'	-2.78	108.30	113.72
2	E	203	LMT	C3'-C4'-C5'	-2.76	105.23	110.23
2	J	203	LMT	O5'-C5'-C4'	2.73	115.36	109.72
2	K	201	LMT	O6'-C6'-C5'	-2.72	102.06	111.33
2	F	202	LMT	C3'-C4'-C5'	-2.72	104.91	110.93
2	I	205	LMT	C3B-C4B-C5B	-2.67	105.38	110.23
2	L	201	LMT	C1'-O5'-C5'	-2.65	108.55	113.72
2	C	208	LMT	O5'-C1'-C2'	-2.64	104.95	110.37
2	K	202	LMT	O5'-C5'-C4'	2.59	115.08	109.72
2	J	202	LMT	C3'-C4'-C5'	-2.57	105.23	110.93
2	J	202	LMT	C3B-C4B-C5B	-2.56	105.59	110.23
2	F	202	LMT	C1'-O5'-C5'	-2.50	108.84	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	203	LMT	C1'-O5'-C5'	-2.46	108.92	113.72
2	L	201	LMT	C3'-C4'-C5'	-2.46	105.78	110.23
2	J	201	LMT	C1'-O5'-C5'	-2.43	108.98	113.72
2	D	202	LMT	C1'-O5'-C5'	-2.41	110.46	113.13
2	C	208	LMT	C3'-C4'-C5'	-2.38	105.65	110.93
2	A	201	LMT	O1'-C1'-C2'	2.38	111.88	108.27
2	C	208	LMT	O5B-C5B-C6B	2.35	112.25	106.44
2	A	202	LMT	O5'-C5'-C4'	2.34	114.55	109.72
2	G	506[B]	LMT	C1'-O5'-C5'	-2.32	109.19	113.72
2	C	207	LMT	O5'-C5'-C6'	2.31	112.17	106.44
2	I	201	LMT	C3B-C4B-C5B	-2.31	106.05	110.23
2	E	202	LMT	O5B-C1B-C2B	2.30	115.09	110.37
2	C	208	LMT	C3B-C4B-C5B	-2.28	106.09	110.23
2	I	205	LMT	O5B-C5B-C6B	2.25	112.03	106.44
2	G	506[A]	LMT	O6'-C6'-C5'	-2.25	103.68	111.33
2	G	506[A]	LMT	C3B-C4B-C5B	-2.25	106.16	110.23
2	J	203	LMT	O1'-C1'-C2'	2.21	111.64	108.27
2	D	202	LMT	O6'-C6'-C5'	-2.21	106.09	111.77
2	F	201	LMT	O5'-C1'-C2'	-2.20	105.84	110.37
2	H	203	LMT	O5B-C5B-C4B	2.20	113.67	109.70
2	K	202	LMT	O5B-C5B-C4B	2.20	113.66	109.70
2	J	202	LMT	O5B-C5B-C6B	2.19	111.88	106.44
2	A	202	LMT	C1'-O5'-C5'	2.19	116.42	113.05
2	J	203	LMT	C1B-O1B-C4'	2.18	119.06	114.72
2	E	202	LMT	O1B-C1B-C2B	2.14	113.35	108.09
2	F	201	LMT	C1'-O5'-C5'	-2.14	109.55	113.72
2	G	506[B]	LMT	O5B-C5B-C4B	2.12	113.53	109.70
2	H	201	LMT	O5'-C1'-C2'	-2.12	106.01	110.37
2	K	201	LMT	O1B-C4'-C3'	2.11	112.59	107.23
2	H	201	LMT	C1-O1'-C1'	2.11	117.28	113.68
2	E	202	LMT	O5B-C5B-C4B	2.10	113.49	109.70
2	H	203	LMT	O5B-C5B-C6B	2.09	111.62	106.44
2	F	201	LMT	O5B-C5B-C4B	2.08	113.45	109.70
2	G	506[B]	LMT	O1B-C4'-C3'	2.07	112.49	107.23
2	J	201	LMT	O5B-C5B-C4B	2.06	113.40	109.70
2	J	202	LMT	O1'-C1'-C2'	2.05	111.38	108.27
2	C	201	LMT	C3'-C4'-C5'	-2.02	106.46	110.93
2	A	201	LMT	C1'-O5'-C5'	-2.01	109.79	113.72

There are no chirality outliers.

All (243) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	202	LMT	C2'-C1'-O1'-C1
2	A	202	LMT	O5'-C1'-O1'-C1
2	C	207	LMT	C2'-C1'-O1'-C1
2	C	207	LMT	O5'-C1'-O1'-C1
2	D	202	LMT	C2'-C1'-O1'-C1
2	D	202	LMT	O5'-C1'-O1'-C1
2	D	202	LMT	C4'-C5'-C6'-O6'
2	D	202	LMT	O5'-C5'-C6'-O6'
2	E	202	LMT	O5'-C1'-O1'-C1
2	E	203	LMT	C2'-C1'-O1'-C1
2	E	203	LMT	O5'-C1'-O1'-C1
2	E	203	LMT	C2-C1-O1'-C1'
2	F	201	LMT	C2'-C1'-O1'-C1
2	F	201	LMT	O5'-C1'-O1'-C1
2	G	506[A]	LMT	C2-C1-O1'-C1'
2	H	203	LMT	O5'-C1'-O1'-C1
2	J	201	LMT	O5'-C1'-O1'-C1
2	J	201	LMT	C2-C1-O1'-C1'
2	J	203	LMT	O1B-C1B-C2B-O2B
2	J	203	LMT	O5B-C1B-C2B-O2B
2	J	203	LMT	O5B-C1B-O1B-C4'
2	J	203	LMT	C2-C1-O1'-C1'
2	K	202	LMT	O5'-C1'-O1'-C1
2	H	203	LMT	O5B-C1B-O1B-C4'
2	G	506[B]	LMT	C3'-C4'-O1B-C1B
2	H	203	LMT	C2B-C1B-O1B-C4'
2	E	202	LMT	C2B-C1B-O1B-C4'
2	F	202	LMT	C3'-C4'-O1B-C1B
2	J	203	LMT	C3'-C4'-O1B-C1B
2	G	506[A]	LMT	O5B-C1B-O1B-C4'
2	K	202	LMT	C3'-C4'-O1B-C1B
2	C	201	LMT	C5'-C4'-O1B-C1B
2	K	201	LMT	C3'-C4'-O1B-C1B
2	F	201	LMT	O5B-C5B-C6B-O6B
2	J	202	LMT	O5B-C5B-C6B-O6B
2	G	507	LMT	O5B-C5B-C6B-O6B
2	E	203	LMT	O5'-C5'-C6'-O6'
2	H	201	LMT	O5B-C5B-C6B-O6B
2	E	203	LMT	C4'-C5'-C6'-O6'
2	E	201	LMT	O5B-C5B-C6B-O6B
2	J	202	LMT	C4B-C5B-C6B-O6B
2	C	207	LMT	O5'-C5'-C6'-O6'
2	I	205	LMT	C4B-C5B-C6B-O6B

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Mol	Chain	Res	Type	Atoms
2	J	203	LMT	C4'-C5'-C6'-O6'
2	I	201	LMT	O5'-C5'-C6'-O6'
2	K	202	LMT	C4B-C5B-C6B-O6B
2	G	506[A]	LMT	O5'-C1'-O1'-C1
2	I	201	LMT	O5'-C1'-O1'-C1
2	J	202	LMT	O5'-C1'-O1'-C1
2	G	507	LMT	C4B-C5B-C6B-O6B
2	G	506[A]	LMT	O5'-C5'-C6'-O6'
2	K	202	LMT	O5'-C5'-C6'-O6'
2	L	201	LMT	C4'-C5'-C6'-O6'
2	J	201	LMT	O5B-C5B-C6B-O6B
2	G	506[A]	LMT	C4'-C5'-C6'-O6'
2	K	202	LMT	C4'-C5'-C6'-O6'
2	F	202	LMT	O5B-C5B-C6B-O6B
2	H	203	LMT	C2'-C1'-O1'-C1
2	I	201	LMT	C2'-C1'-O1'-C1
2	J	201	LMT	C2'-C1'-O1'-C1
2	J	202	LMT	C2'-C1'-O1'-C1
2	I	205	LMT	O5B-C5B-C6B-O6B
2	C	207	LMT	C4'-C5'-C6'-O6'
2	E	201	LMT	C4B-C5B-C6B-O6B
2	H	203	LMT	O5'-C5'-C6'-O6'
2	E	202	LMT	O5'-C5'-C6'-O6'
2	C	208	LMT	O5B-C5B-C6B-O6B
2	K	202	LMT	O5B-C5B-C6B-O6B
2	F	201	LMT	C4B-C5B-C6B-O6B
2	H	201	LMT	C4B-C5B-C6B-O6B
2	L	201	LMT	O5'-C5'-C6'-O6'
2	C	201	LMT	C4B-C5B-C6B-O6B
2	I	201	LMT	C4'-C5'-C6'-O6'
2	J	201	LMT	O1'-C1-C2-C3
2	K	201	LMT	O5'-C1'-O1'-C1
2	E	202	LMT	O1'-C1-C2-C3
2	G	507	LMT	O1'-C1-C2-C3
2	H	203	LMT	C7-C8-C9-C10
2	C	208	LMT	O1'-C1-C2-C3
2	C	207	LMT	O1'-C1-C2-C3
2	G	506[A]	LMT	C2'-C1'-O1'-C1
2	J	203	LMT	C2'-C1'-O1'-C1
2	K	201	LMT	C2'-C1'-O1'-C1
2	K	202	LMT	C2'-C1'-O1'-C1
2	J	203	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
2	G	506[A]	LMT	O1'-C1-C2-C3
2	F	201	LMT	C1-C2-C3-C4
2	F	201	LMT	O1'-C1-C2-C3
2	D	202	LMT	C5-C6-C7-C8
2	I	205	LMT	C11-C10-C9-C8
2	F	202	LMT	C2-C1-O1'-C1'
2	G	507	LMT	C2-C1-O1'-C1'
2	I	201	LMT	C2-C1-O1'-C1'
2	K	201	LMT	C2-C1-O1'-C1'
2	L	201	LMT	C2-C1-O1'-C1'
2	I	201	LMT	C6-C7-C8-C9
2	J	203	LMT	C11-C10-C9-C8
2	E	203	LMT	C1-C2-C3-C4
2	E	202	LMT	C1-C2-C3-C4
2	F	202	LMT	C7-C8-C9-C10
2	G	507	LMT	C1-C2-C3-C4
2	G	507	LMT	C3-C4-C5-C6
2	A	201	LMT	C6-C7-C8-C9
2	E	201	LMT	C4'-C5'-C6'-O6'
2	F	202	LMT	C3-C4-C5-C6
2	E	203	LMT	C7-C8-C9-C10
2	D	202	LMT	C2-C3-C4-C5
2	L	201	LMT	C3-C4-C5-C6
2	L	201	LMT	C4-C5-C6-C7
2	J	203	LMT	C7-C8-C9-C10
2	F	202	LMT	O5'-C1'-O1'-C1
2	E	202	LMT	C2'-C1'-O1'-C1
2	C	207	LMT	C1-C2-C3-C4
2	J	203	LMT	C3-C4-C5-C6
2	E	202	LMT	C2-C3-C4-C5
2	K	201	LMT	C4B-C5B-C6B-O6B
2	C	201	LMT	C3'-C4'-O1B-C1B
2	C	201	LMT	C5-C6-C7-C8
2	F	202	LMT	C6-C7-C8-C9
2	F	202	LMT	C1-C2-C3-C4
2	I	201	LMT	O5B-C1B-O1B-C4'
2	C	208	LMT	C1-C2-C3-C4
2	E	203	LMT	C6-C7-C8-C9
2	I	201	LMT	C11-C10-C9-C8
2	J	201	LMT	C4B-C5B-C6B-O6B
2	B	202	LMT	C7-C8-C9-C10
2	C	208	LMT	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
2	E	201	LMT	C7-C8-C9-C10
2	I	205	LMT	C7-C8-C9-C10
2	G	507	LMT	C2-C3-C4-C5
2	J	202	LMT	C9-C10-C11-C12
2	G	507	LMT	C4-C5-C6-C7
2	K	202	LMT	C7-C8-C9-C10
2	K	201	LMT	C5'-C4'-O1B-C1B
2	G	506[B]	LMT	C7-C8-C9-C10
2	G	506[B]	LMT	O5B-C5B-C6B-O6B
2	F	202	LMT	C4B-C5B-C6B-O6B
2	A	202	LMT	O1'-C1-C2-C3
2	I	201	LMT	C5-C6-C7-C8
2	F	202	LMT	C2'-C1'-O1'-C1
2	A	201	LMT	C4-C5-C6-C7
2	I	201	LMT	C7-C8-C9-C10
5	F	207	EDO	O1-C1-C2-O2
5	L	204	EDO	O1-C1-C2-O2
2	A	201	LMT	O5B-C5B-C6B-O6B
2	I	201	LMT	C3-C4-C5-C6
2	C	201	LMT	O5B-C5B-C6B-O6B
2	I	205	LMT	O5'-C5'-C6'-O6'
2	C	207	LMT	O5B-C1B-O1B-C4'
2	C	208	LMT	C7-C8-C9-C10
2	F	201	LMT	C7-C8-C9-C10
2	G	507	LMT	C5-C6-C7-C8
2	F	202	LMT	C5-C6-C7-C8
2	F	201	LMT	C11-C10-C9-C8
2	D	202	LMT	C6-C7-C8-C9
2	K	201	LMT	C1-C2-C3-C4
2	A	201	LMT	C3-C4-C5-C6
2	B	202	LMT	C6-C7-C8-C9
2	A	201	LMT	C7-C8-C9-C10
2	F	202	LMT	C9-C10-C11-C12
2	I	205	LMT	C9-C10-C11-C12
2	G	506[B]	LMT	C9-C10-C11-C12
2	C	208	LMT	C9-C10-C11-C12
2	A	201	LMT	C2-C1-O1'-C1'
2	A	202	LMT	C2-C1-O1'-C1'
2	C	207	LMT	C2-C1-O1'-C1'
2	C	208	LMT	C2-C1-O1'-C1'
2	D	202	LMT	C2-C1-O1'-C1'
2	F	201	LMT	C2-C1-O1'-C1'

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Mol	Chain	Res	Type	Atoms
2	C	207	LMT	C7-C8-C9-C10
2	A	202	LMT	C2-C3-C4-C5
2	A	202	LMT	O5'-C5'-C6'-O6'
2	E	203	LMT	O1'-C1-C2-C3
2	K	202	LMT	C9-C10-C11-C12
2	E	201	LMT	C6-C7-C8-C9
2	G	506[A]	LMT	C5'-C4'-O1B-C1B
2	B	202	LMT	C3-C4-C5-C6
2	I	201	LMT	C4-C5-C6-C7
2	G	506[A]	LMT	C2-C3-C4-C5
2	I	201	LMT	C5'-C4'-O1B-C1B
2	J	203	LMT	C5'-C4'-O1B-C1B
2	E	203	LMT	C5-C6-C7-C8
2	F	202	LMT	C5'-C4'-O1B-C1B
2	K	202	LMT	C5'-C4'-O1B-C1B
2	J	203	LMT	O5'-C1'-O1'-C1
2	B	202	LMT	C4-C5-C6-C7
2	J	202	LMT	C3-C4-C5-C6
2	J	202	LMT	C11-C10-C9-C8
2	E	202	LMT	O5B-C1B-O1B-C4'
2	D	202	LMT	C7-C8-C9-C10
2	G	506[A]	LMT	C3'-C4'-O1B-C1B
2	H	201	LMT	O1'-C1-C2-C3
2	I	201	LMT	O1'-C1-C2-C3
2	C	201	LMT	C2-C1-O1'-C1'
2	K	202	LMT	C2-C1-O1'-C1'
2	J	202	LMT	O1'-C1-C2-C3
2	G	506[A]	LMT	C1-C2-C3-C4
2	G	506[A]	LMT	C9-C10-C11-C12
2	K	202	LMT	C1-C2-C3-C4
2	C	207	LMT	C5'-C4'-O1B-C1B
2	E	201	LMT	C9-C10-C11-C12
2	F	202	LMT	O1'-C1-C2-C3
2	C	207	LMT	C2B-C1B-O1B-C4'
2	I	205	LMT	C1-C2-C3-C4
2	I	201	LMT	C2B-C1B-O1B-C4'
2	H	203	LMT	C4'-C5'-C6'-O6'
2	B	202	LMT	C9-C10-C11-C12
2	J	203	LMT	C4-C5-C6-C7
5	E	210	EDO	O1-C1-C2-O2
5	H	206	EDO	O1-C1-C2-O2
2	H	201	LMT	C2-C1-O1'-C1'

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Mol	Chain	Res	Type	Atoms
2	C	208	LMT	C4B-C5B-C6B-O6B
2	I	205	LMT	C6-C7-C8-C9
2	J	202	LMT	C1-C2-C3-C4
2	I	201	LMT	C3'-C4'-O1B-C1B
2	E	202	LMT	C4'-C5'-C6'-O6'
2	E	202	LMT	C3-C4-C5-C6
5	G	508	EDO	O1-C1-C2-O2
2	G	506[B]	LMT	C5'-C4'-O1B-C1B
2	K	201	LMT	C4-C5-C6-C7
2	J	203	LMT	C2-C3-C4-C5
2	C	207	LMT	C2-C3-C4-C5
2	K	202	LMT	C11-C10-C9-C8
2	G	507	LMT	C6-C7-C8-C9
5	A	207	EDO	O1-C1-C2-O2
5	D	205	EDO	O1-C1-C2-O2
5	E	208	EDO	O1-C1-C2-O2
5	F	208	EDO	O1-C1-C2-O2
5	I	207	EDO	O1-C1-C2-O2
2	E	201	LMT	O5'-C5'-C6'-O6'
2	J	203	LMT	C5-C6-C7-C8
2	K	201	LMT	O5B-C5B-C6B-O6B
2	E	202	LMT	C5'-C4'-O1B-C1B
2	E	203	LMT	C11-C10-C9-C8
5	J	208	EDO	O1-C1-C2-O2
5	L	206	EDO	O1-C1-C2-O2
2	D	202	LMT	C3-C4-C5-C6
2	C	207	LMT	C4B-C5B-C6B-O6B
2	G	506[B]	LMT	O5'-C1'-O1'-C1
2	L	201	LMT	C6-C7-C8-C9
2	C	201	LMT	C3-C4-C5-C6
2	G	506[A]	LMT	C7-C8-C9-C10
2	C	208	LMT	C6-C7-C8-C9

All (1) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	202	LMT	C1'-C2'-C3'-C4'-C5'-O5'

34 monomers are involved in 45 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	K	203	SO4	1	0

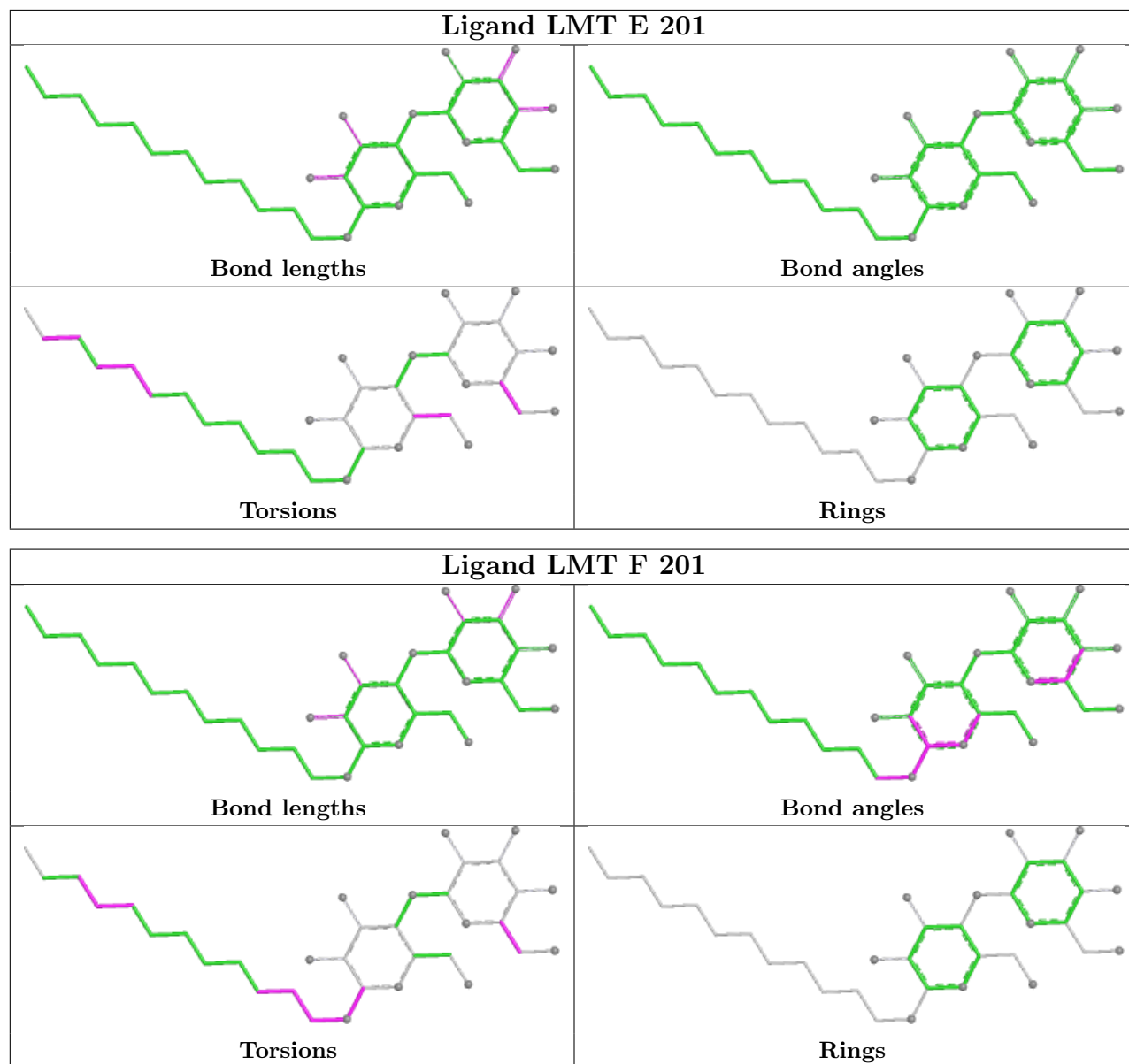
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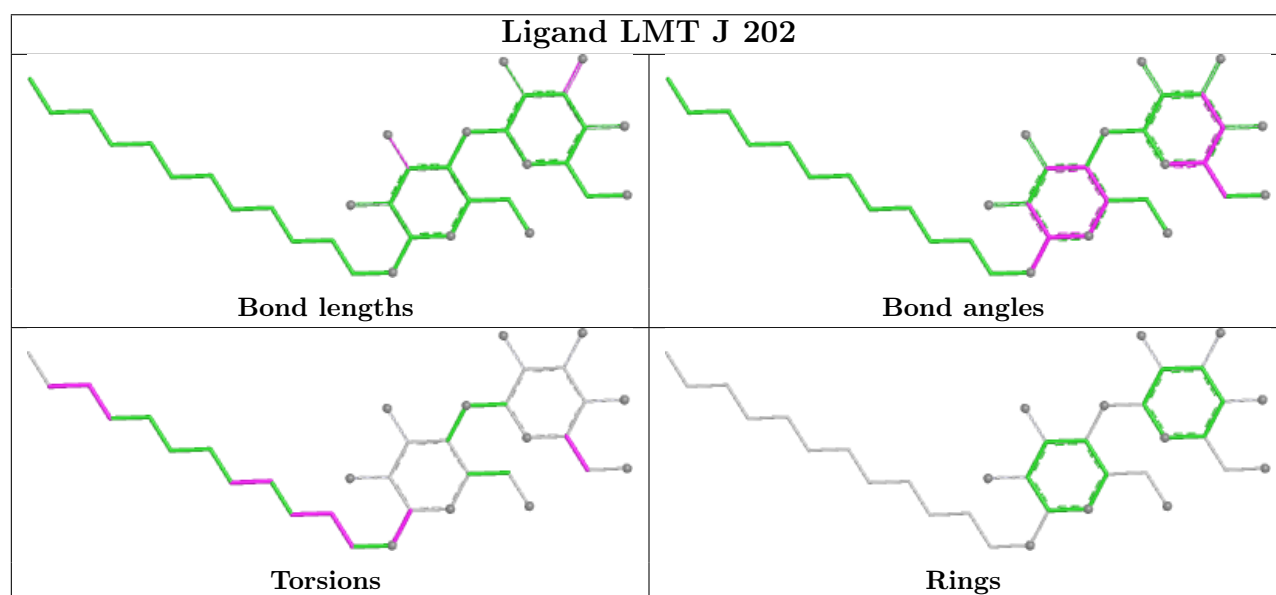
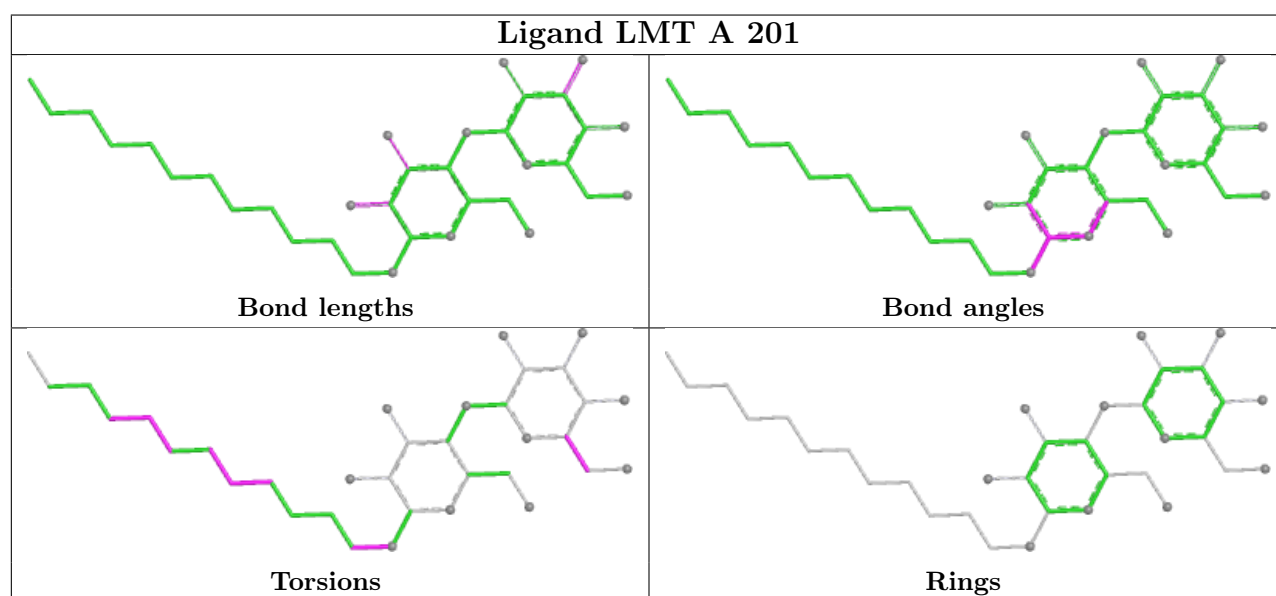
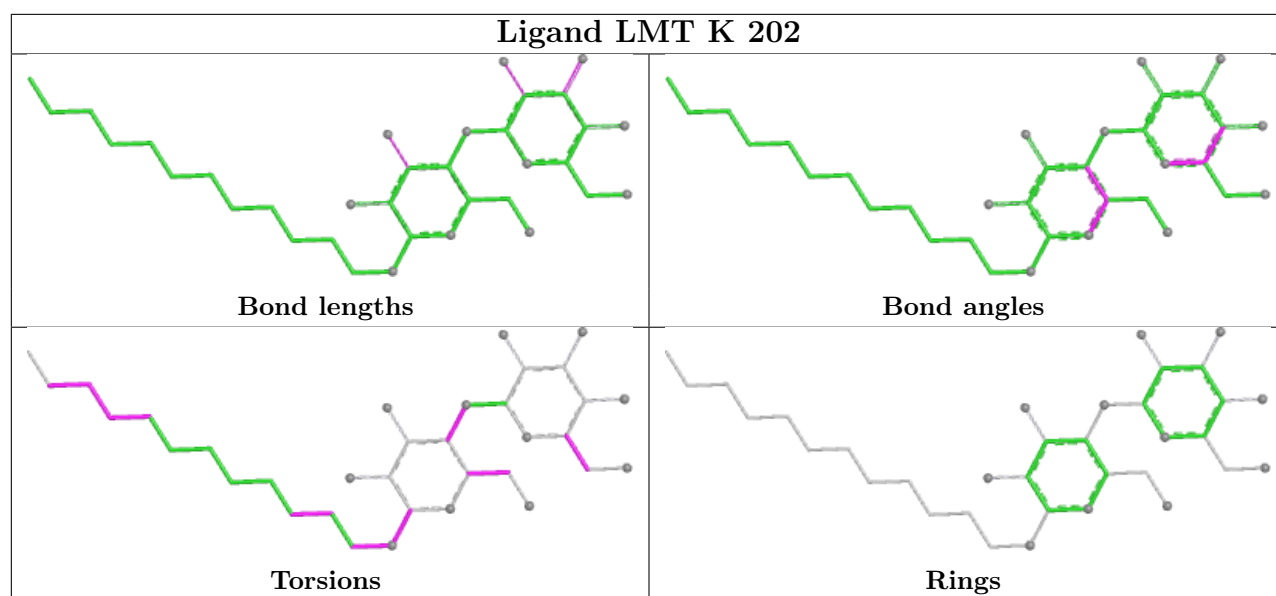
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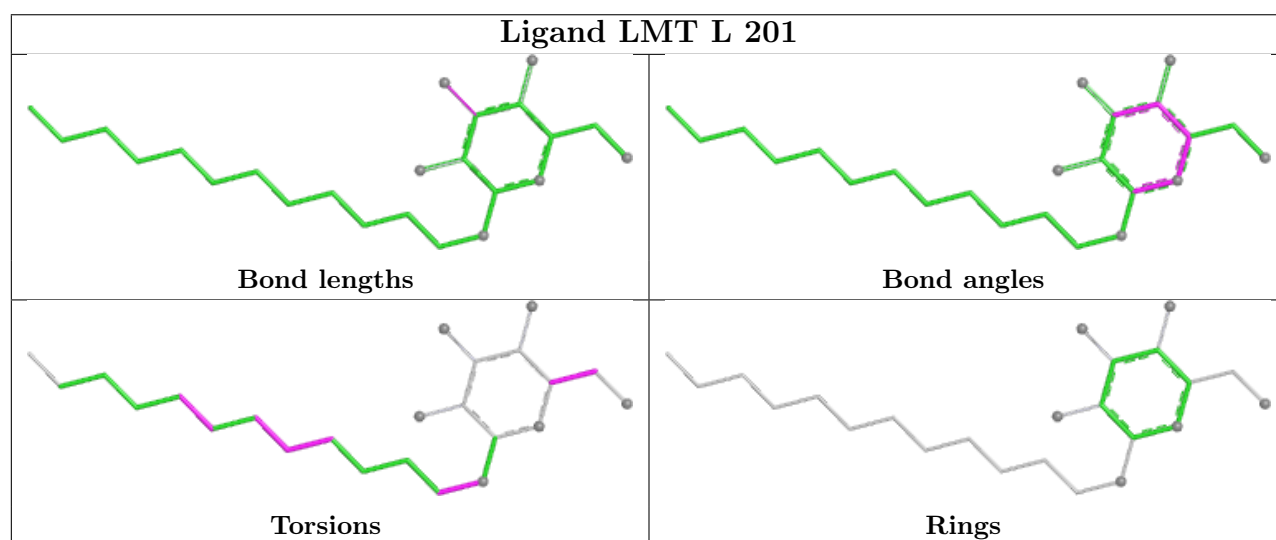
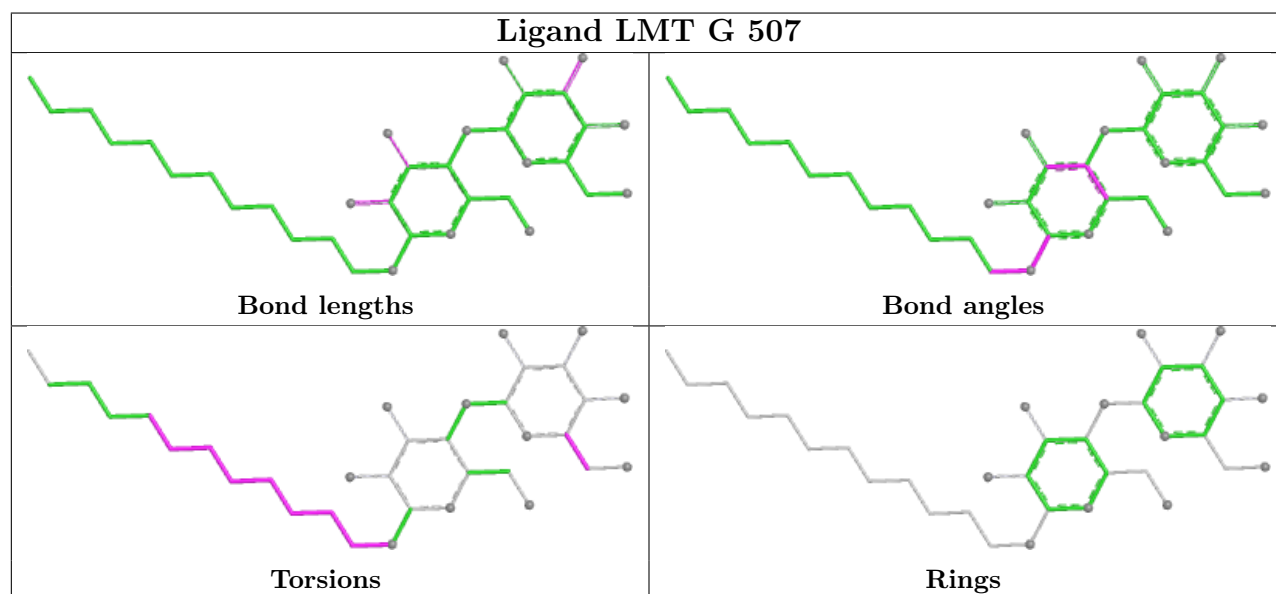
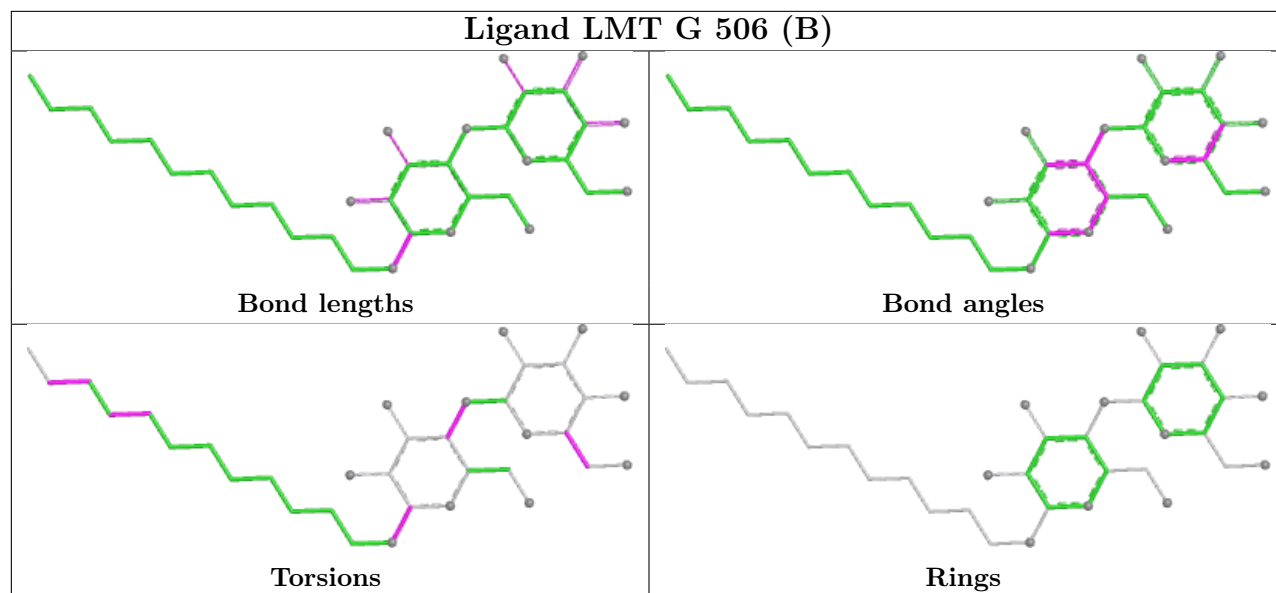
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	E	204	SO4	1	0
3	B	201	SO4	1	0
2	E	201	LMT	1	0
2	F	201	LMT	4	0
5	J	209	EDO	1	0
5	F	208	EDO	1	0
2	A	201	LMT	1	0
2	J	202	LMT	1	0
2	G	507	LMT	3	0
5	F	207	EDO	2	0
2	L	201	LMT	1	0
2	F	202	LMT	2	0
2	I	205	LMT	1	0
3	B	203	SO4	1	0
2	B	202	LMT	1	0
2	E	203	LMT	2	0
3	G	501	SO4	1	0
2	A	202	LMT	1	0
2	K	201	LMT	2	0
2	C	207	LMT	1	0
5	F	206	EDO	1	0
2	J	201	LMT	2	0
3	J	207	SO4	1	0
5	B	207	EDO	1	0
5	E	210	EDO	1	0
2	C	201	LMT	2	0
2	C	208	LMT	2	0
5	L	205	EDO	2	0
3	C	202	SO4	1	0
2	H	201	LMT	1	0
2	I	201	LMT	1	0
3	H	204	SO4	1	0
2	J	203	LMT	4	0

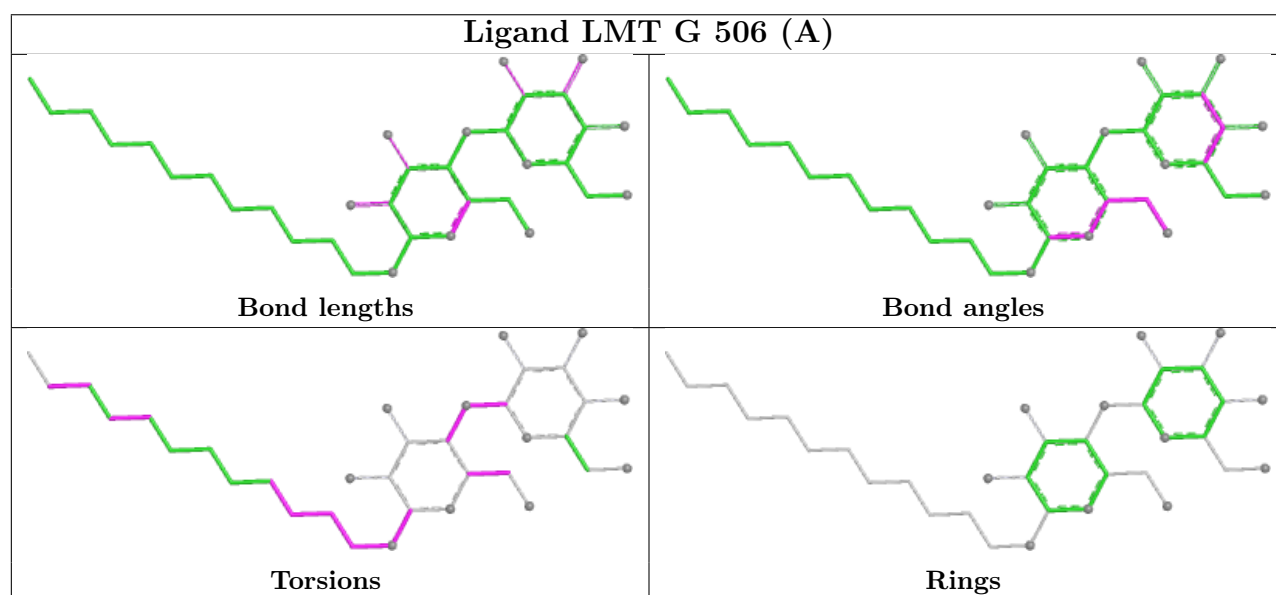
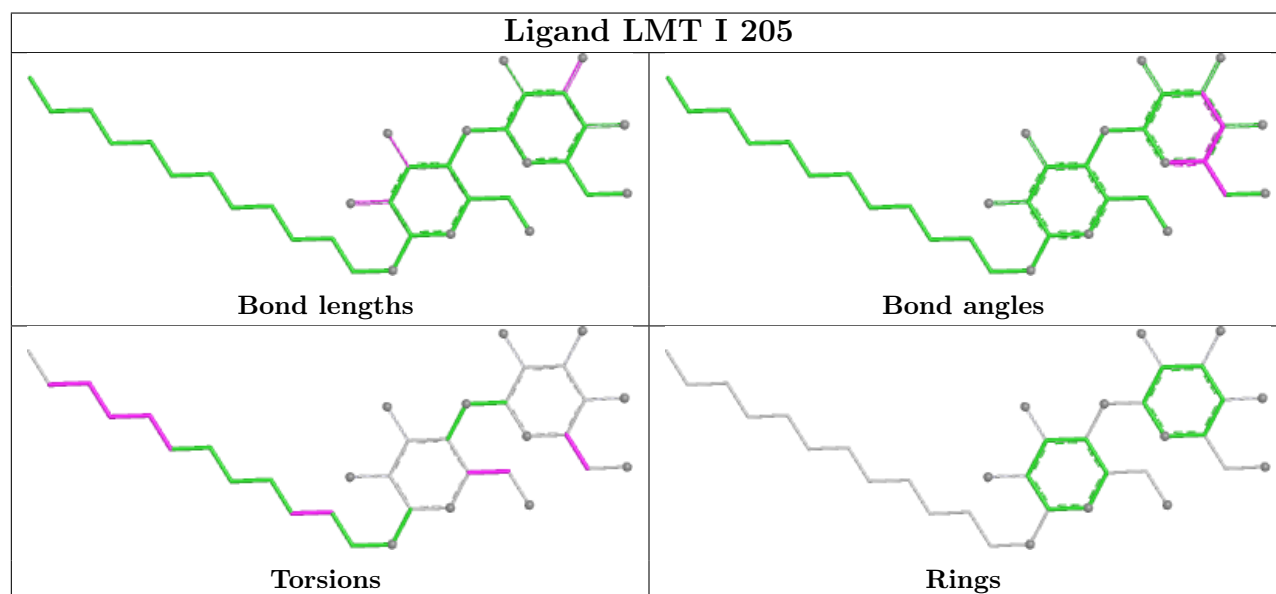
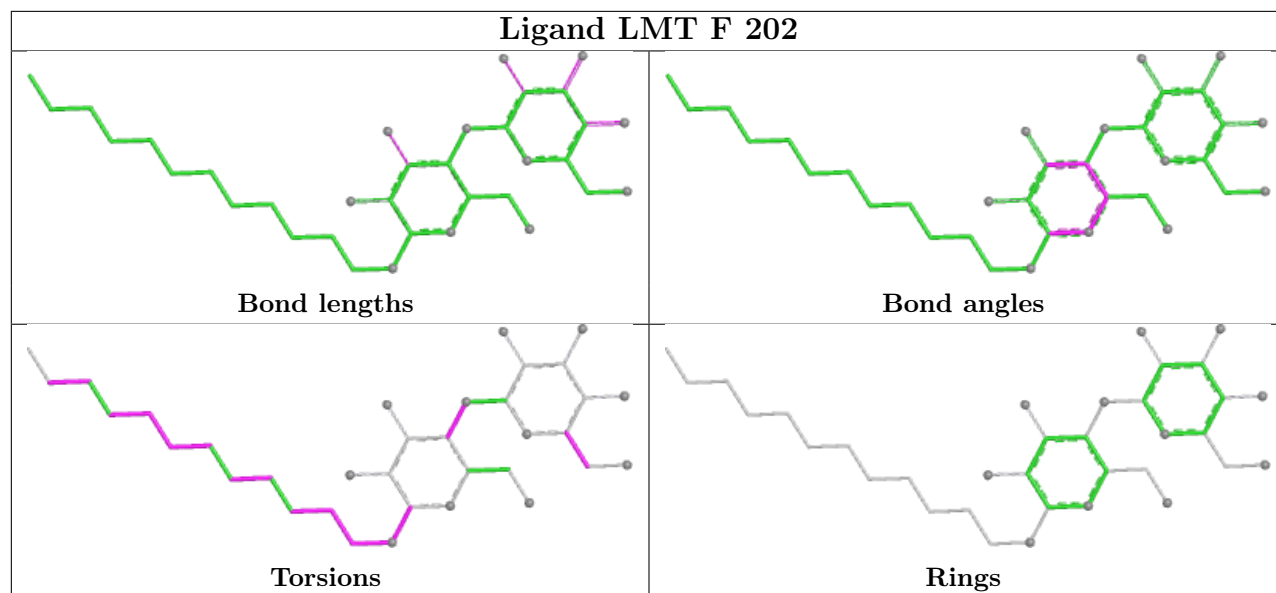
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

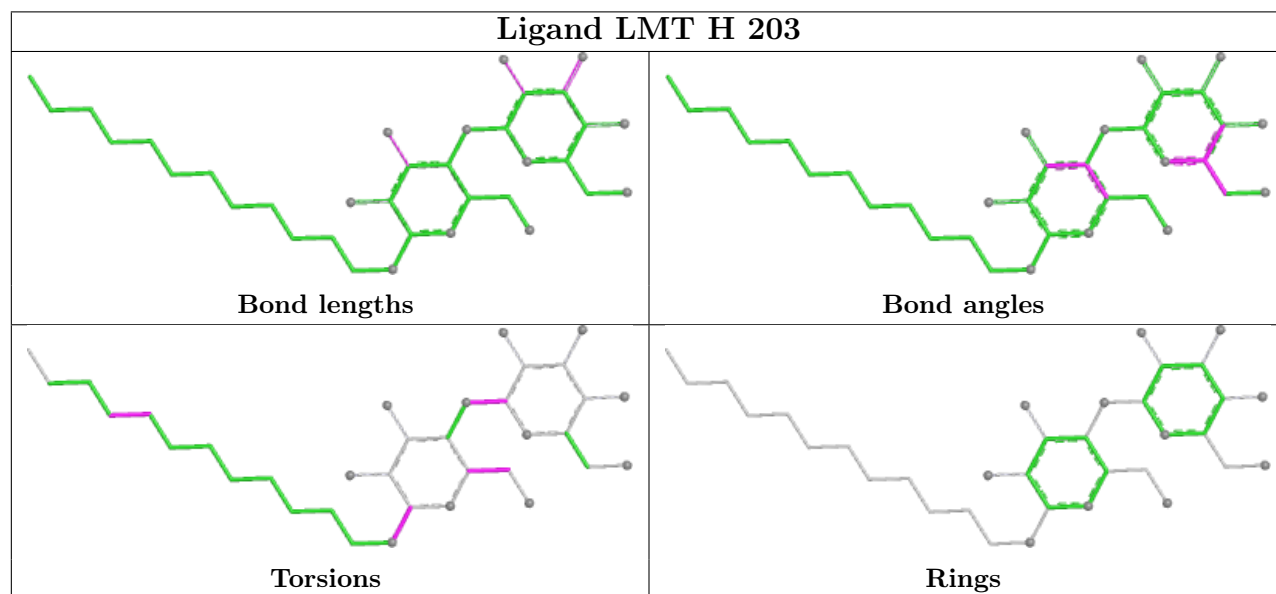
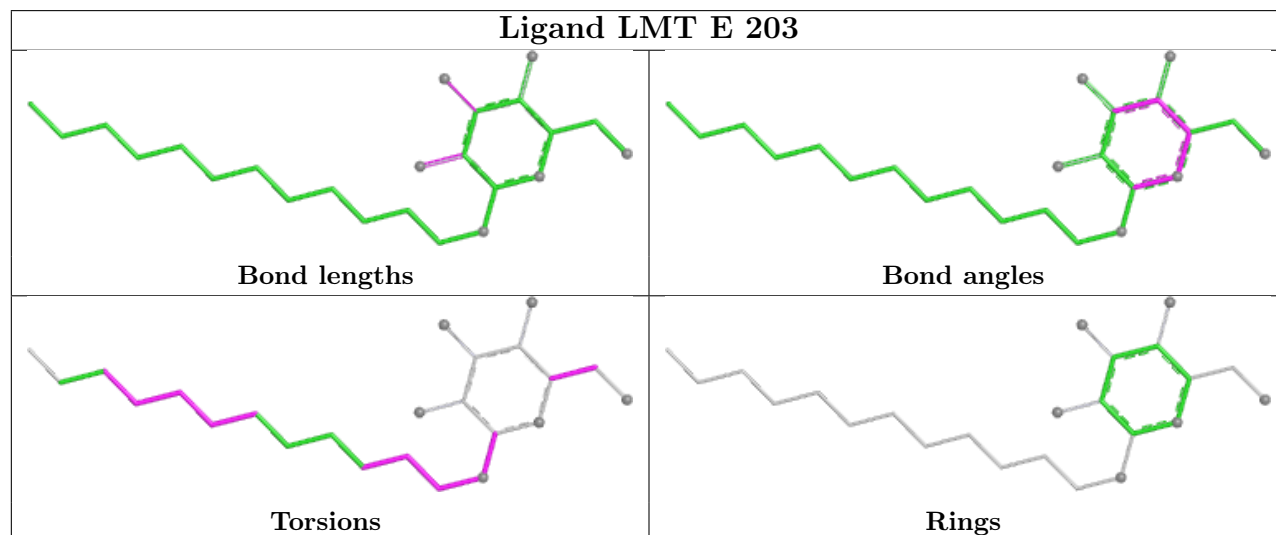
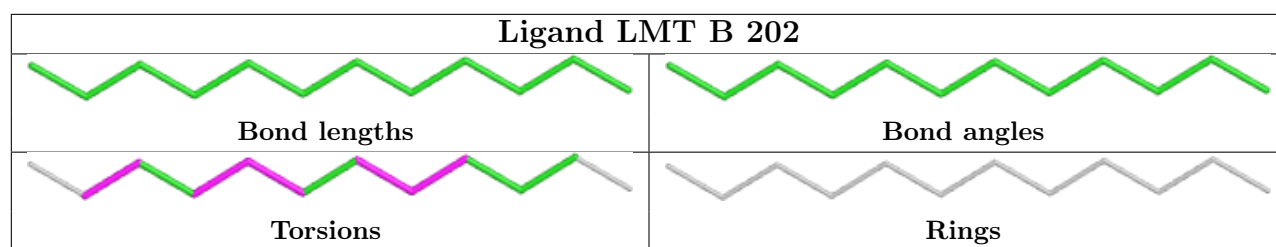
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

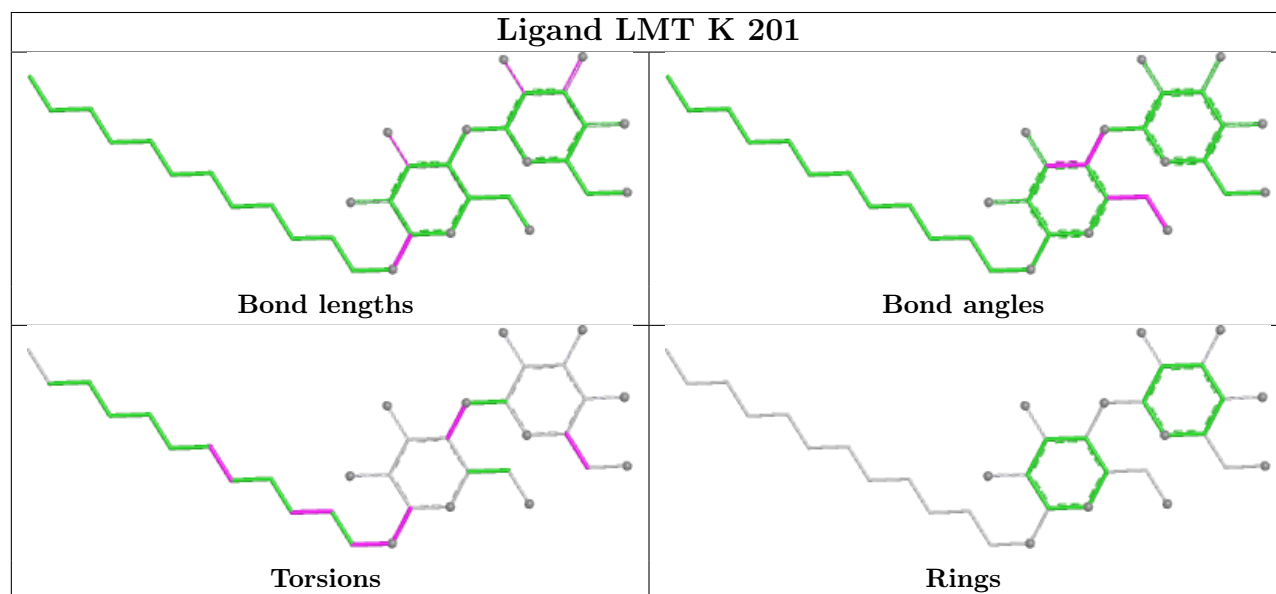
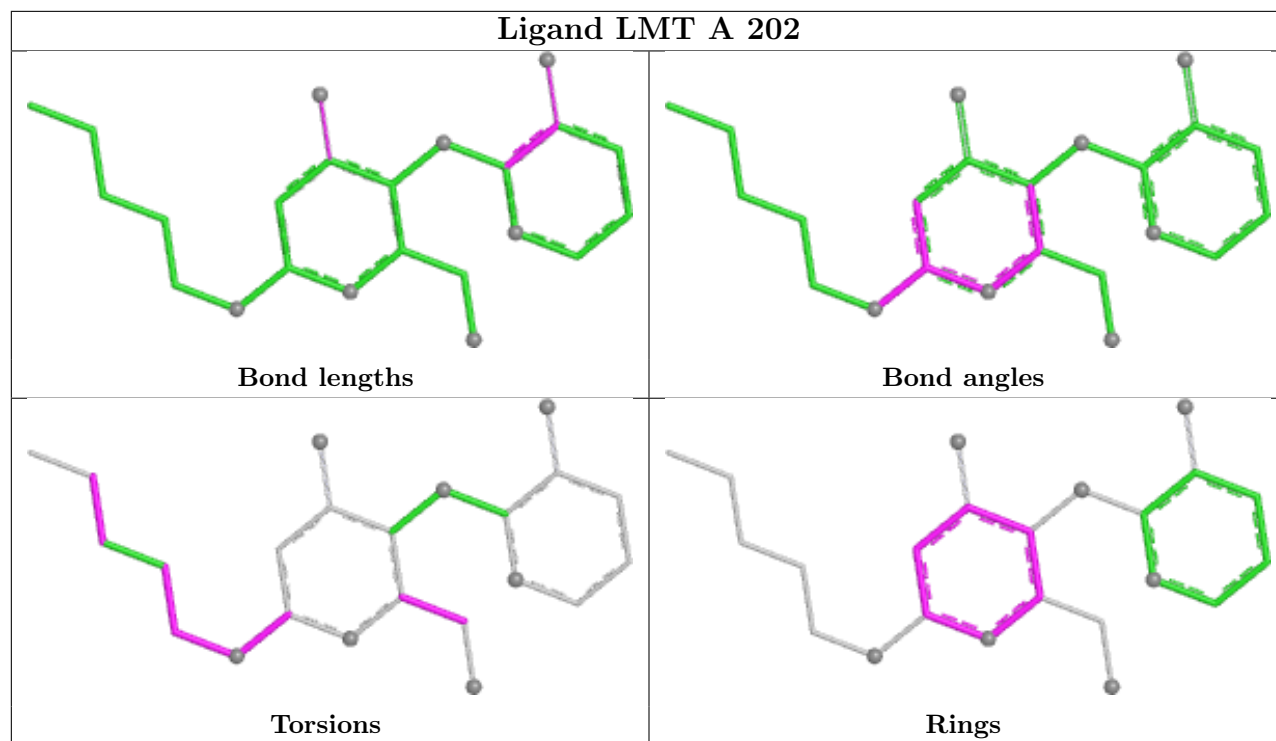


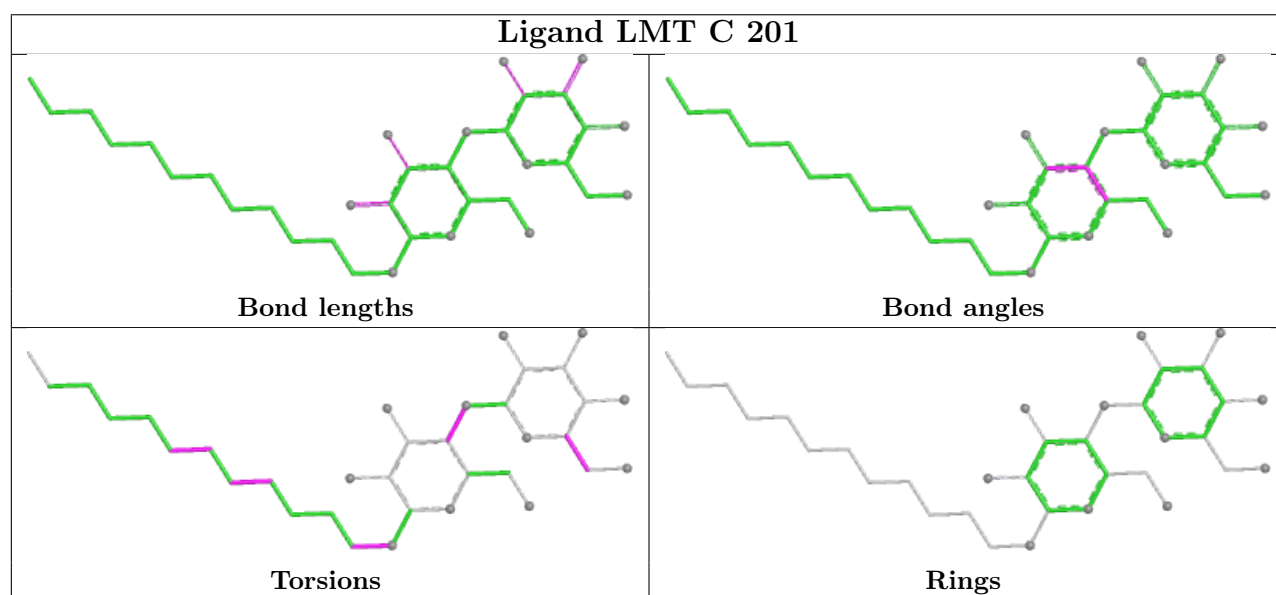
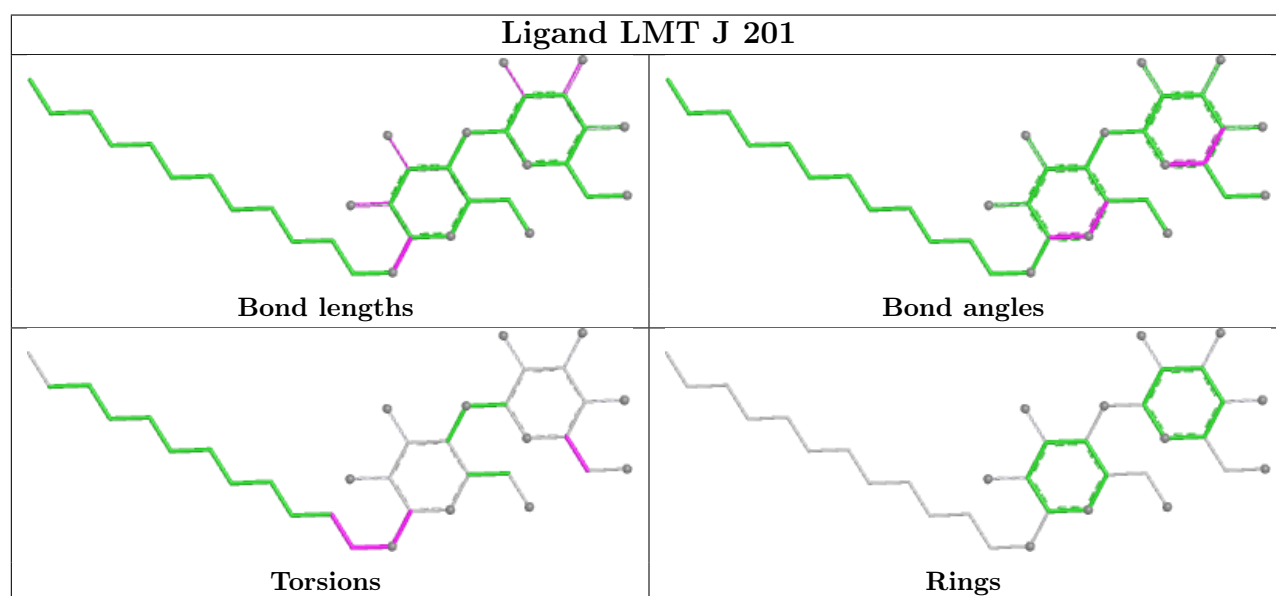
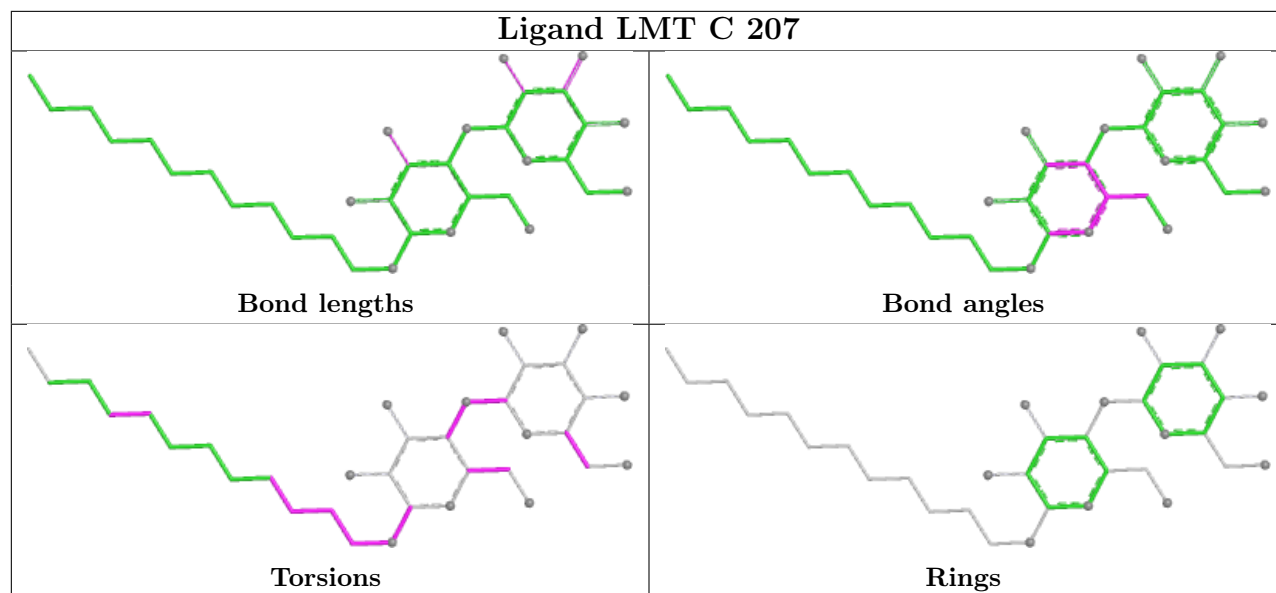


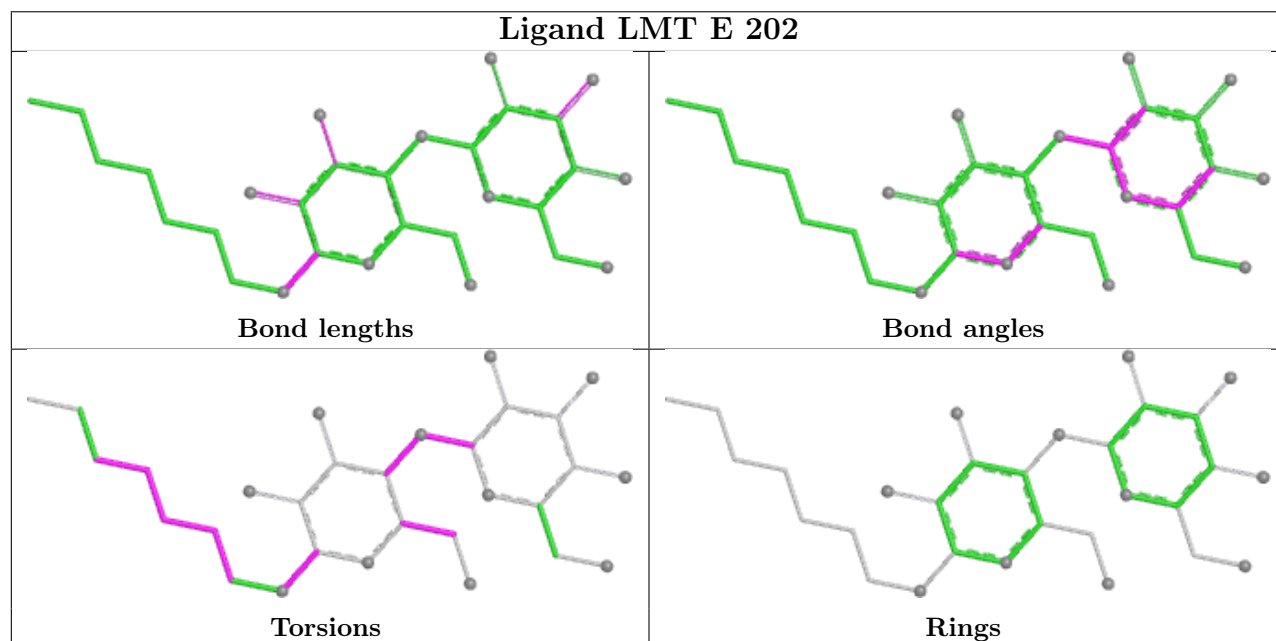
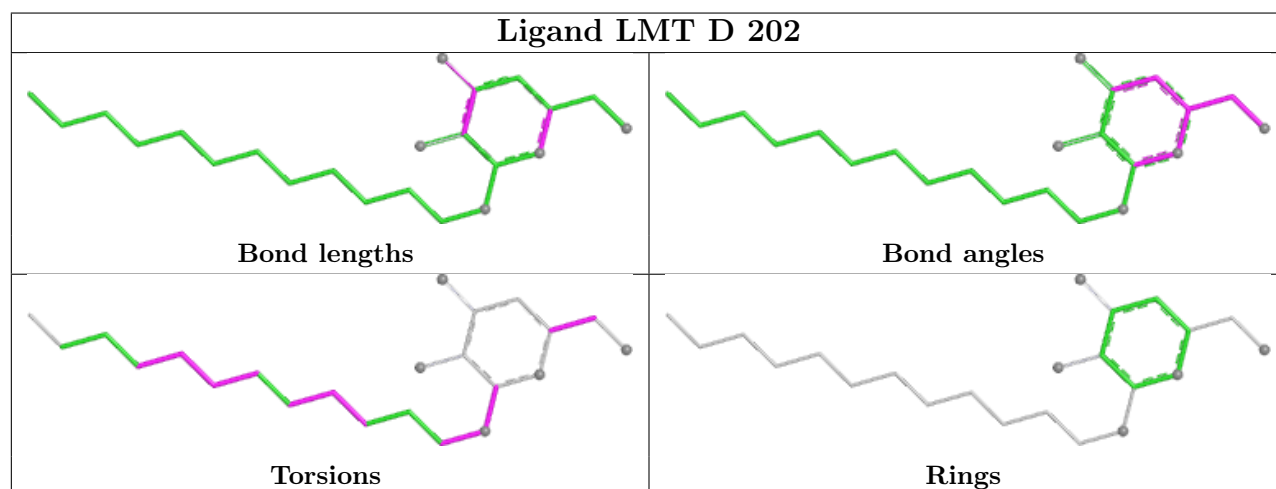
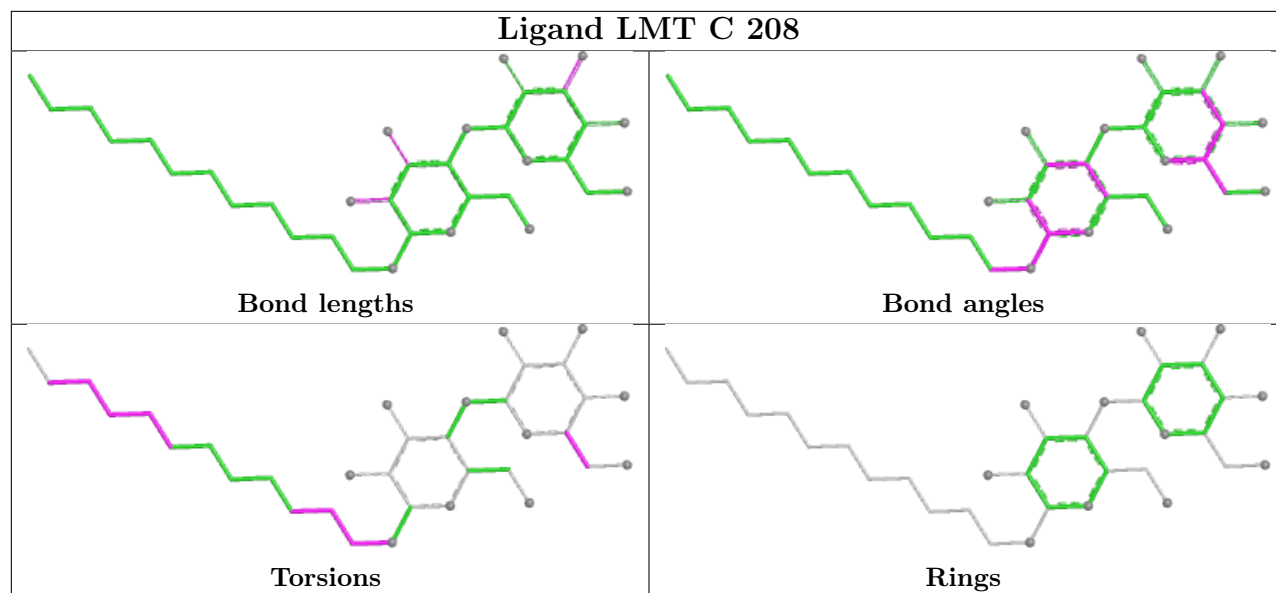


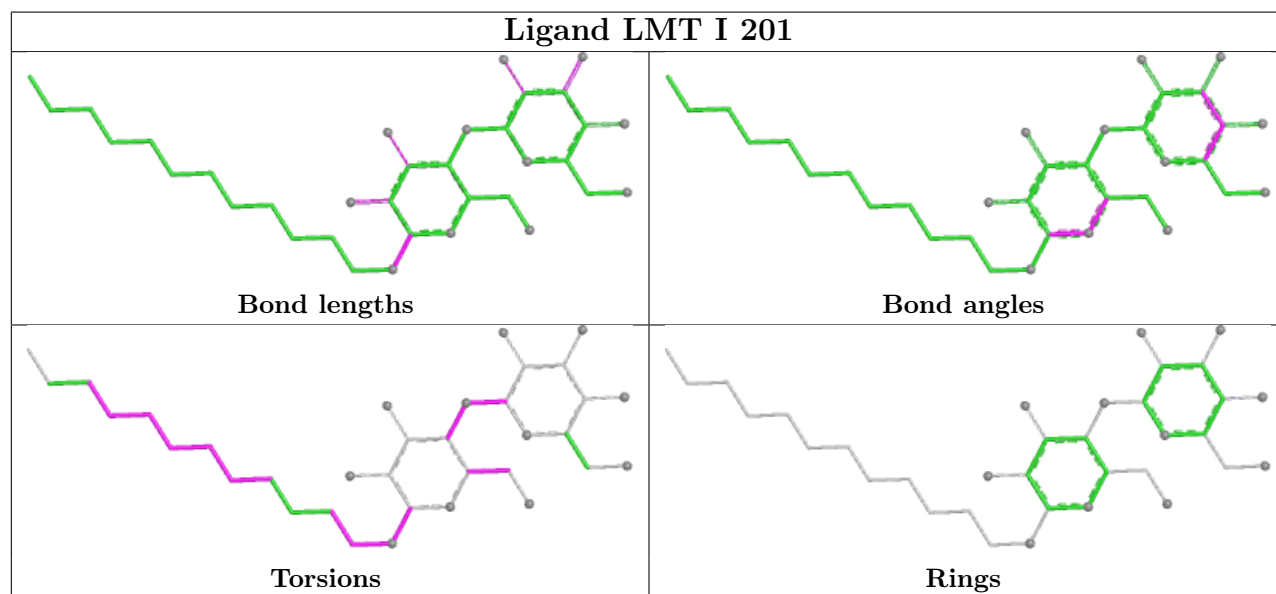
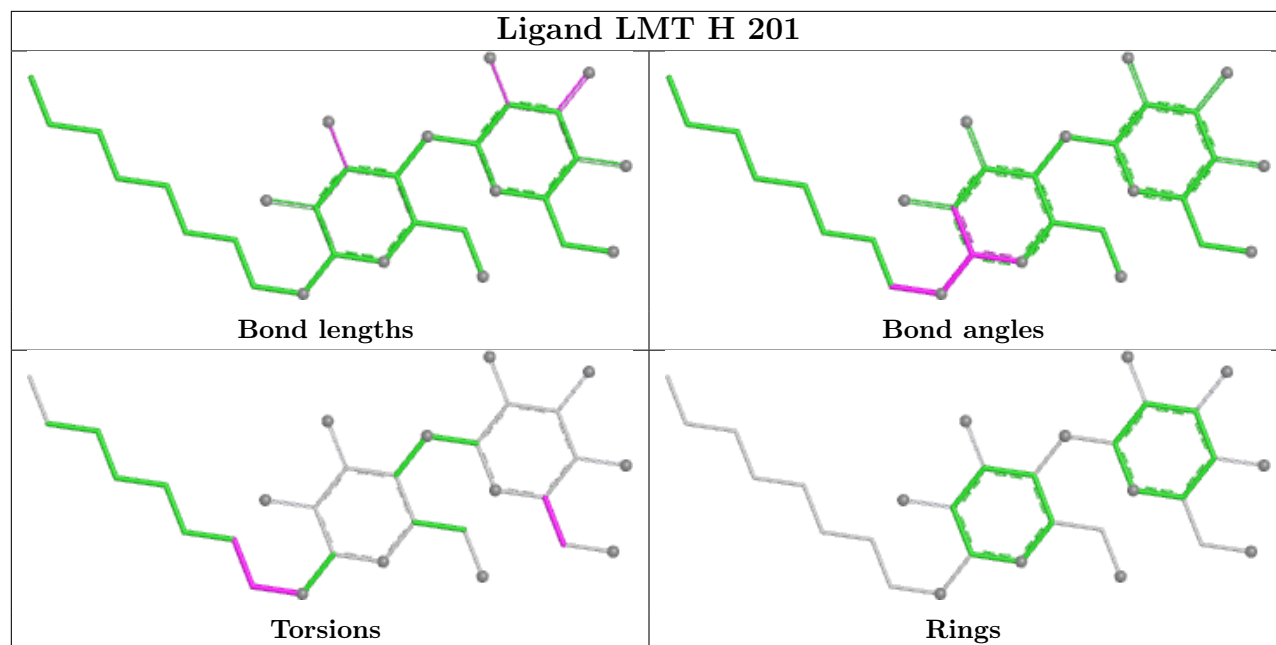


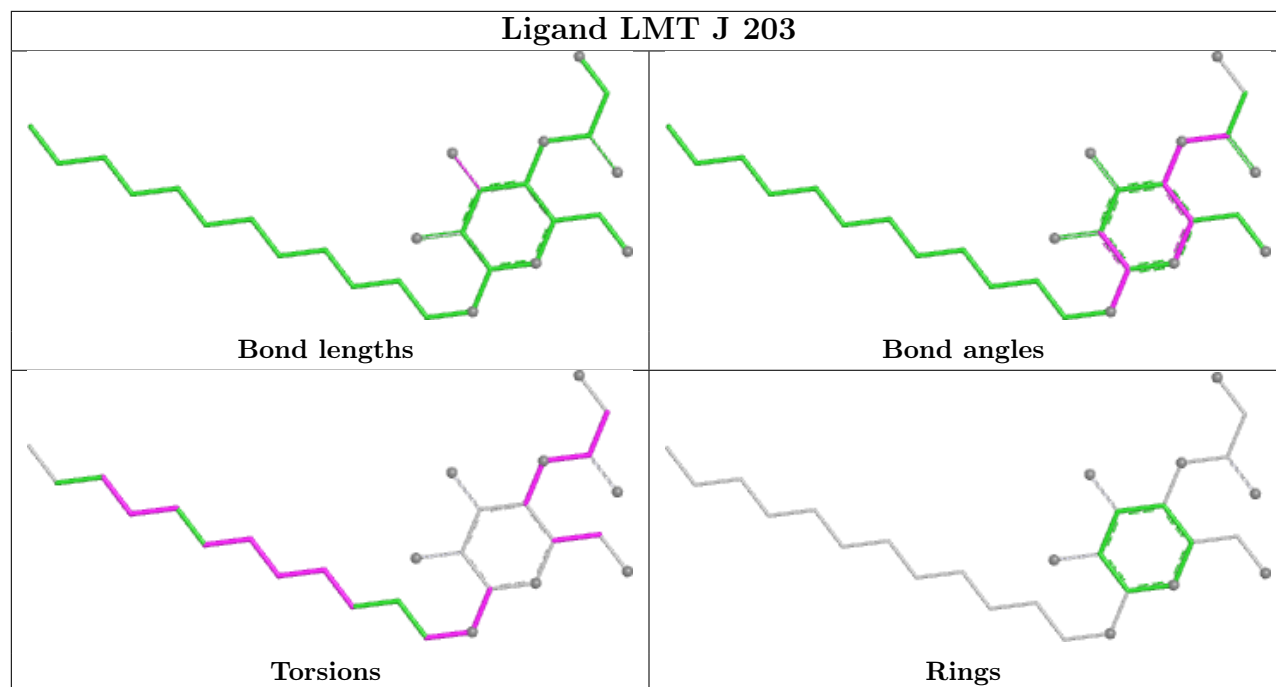












5.7 Other polymers [i](#)

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	80/85 (94%)	1.02	12 (15%) 5 4	24, 43, 69, 85	0
1	B	78/85 (91%)	0.88	6 (7%) 19 17	24, 37, 62, 113	1 (1%)
1	C	81/85 (95%)	0.75	5 (6%) 26 25	25, 39, 79, 95	0
1	D	79/85 (92%)	0.79	6 (7%) 20 18	24, 38, 72, 101	0
1	E	80/85 (94%)	0.90	9 (11%) 10 8	24, 36, 69, 103	0
1	F	79/85 (92%)	0.78	9 (11%) 10 8	23, 35, 62, 72	0
1	G	81/85 (95%)	0.87	8 (9%) 13 11	18, 41, 75, 91	1 (1%)
1	H	78/85 (91%)	0.71	6 (7%) 19 17	24, 38, 68, 88	1 (1%)
1	I	81/85 (95%)	0.82	8 (9%) 13 11	22, 36, 66, 90	0
1	J	78/85 (91%)	0.75	6 (7%) 19 17	22, 34, 59, 90	0
1	K	79/85 (92%)	0.75	8 (10%) 12 11	22, 37, 75, 87	1 (1%)
1	L	81/85 (95%)	0.65	5 (6%) 26 25	17, 33, 57, 89	1 (1%)
All	All	955/1020 (93%)	0.81	88 (9%) 14 12	17, 37, 70, 113	5 (0%)

All (88) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	147	LEU	6.5
1	J	146	GLY	5.2
1	G	67	GLY	5.2
1	G	147	LEU	5.1
1	K	147	LEU	5.0
1	E	68	SER	4.7
1	C	147	LEU	4.7
1	H	73[A]	GLN	4.6
1	B	145	HIS	4.4
1	K	146	GLY	4.1
1	L	148	THR	4.0

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Mol	Chain	Res	Type	RSRZ
1	A	147	LEU	4.0
1	J	69	SER	4.0
1	E	147	LEU	3.9
1	G	146	GLY	3.8
1	D	145	HIS	3.7
1	D	147	LEU	3.6
1	B	140	LEU	3.6
1	J	70	THR	3.5
1	I	67	GLY	3.5
1	G	105	GLU	3.5
1	I	147	LEU	3.4
1	D	146	GLY	3.3
1	F	146	GLY	3.3
1	A	68	SER	3.2
1	I	68	SER	3.1
1	A	104	ALA	3.0
1	F	70	THR	3.0
1	E	69	SER	3.0
1	F	80	ILE	3.0
1	H	99	HIS	2.9
1	E	70	THR	2.8
1	A	69	SER	2.8
1	D	69	SER	2.8
1	G	117	SER	2.8
1	L	99	HIS	2.8
1	D	70	THR	2.8
1	I	142	VAL	2.7
1	B	94	GLN	2.6
1	B	69	SER	2.6
1	I	69	SER	2.6
1	B	146	GLY	2.6
1	E	105	GLU	2.6
1	E	142	VAL	2.6
1	E	103	THR	2.6
1	K	69	SER	2.6
1	K	70	THR	2.5
1	G	68	SER	2.5
1	H	146	GLY	2.5
1	F	145	HIS	2.5
1	C	105	GLU	2.5
1	H	71	MET	2.5
1	A	146	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	146	GLY	2.5
1	A	120	GLU	2.5
1	I	105	GLU	2.5
1	K	104	ALA	2.4
1	J	99	HIS	2.4
1	A	140	LEU	2.4
1	F	71	MET	2.4
1	F	99	HIS	2.4
1	L	98	GLN	2.3
1	K	140	LEU	2.3
1	A	123	ILE	2.3
1	H	69	SER	2.3
1	E	146	GLY	2.3
1	C	116	THR	2.3
1	I	145	HIS	2.3
1	J	108	TYR	2.3
1	L	147	LEU	2.3
1	D	99	HIS	2.2
1	J	86	ASN	2.2
1	F	69	SER	2.2
1	C	67	GLY	2.1
1	G	91	SER	2.1
1	H	98	GLN	2.1
1	I	146	GLY	2.1
1	E	100	LEU	2.1
1	G	97	LEU	2.1
1	K	145	HIS	2.1
1	A	91	SER	2.0
1	A	142	VAL	2.0
1	L	140	LEU	2.0
1	A	145	HIS	2.0
1	K	103	THR	2.0
1	A	119	PHE	2.0
1	F	108	TYR	2.0
1	B	74	VAL	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	SO4	J	207	5/5	0.56	0.14	112,112,113,114	0
3	SO4	G	501	5/5	0.61	0.15	127,128,130,131	0
2	LMT	I	201	35/35	0.64	0.20	49,108,128,128	0
2	LMT	A	202	23/35	0.67	0.25	76,119,125,126	0
3	SO4	J	206	5/5	0.67	0.18	137,138,141,141	0
2	LMT	K	202	35/35	0.67	0.20	58,105,125,127	0
3	SO4	B	204	5/5	0.68	0.17	112,113,118,118	0
2	LMT	E	202	30/35	0.68	0.21	65,107,121,125	0
3	SO4	E	205	5/5	0.70	0.17	94,100,105,105	0
3	SO4	A	203	5/5	0.70	0.23	164,164,165,165	0
2	LMT	H	203	35/35	0.71	0.21	52,110,128,129	0
3	SO4	C	202	5/5	0.71	0.14	98,105,107,109	0
3	SO4	J	205	5/5	0.72	0.20	109,110,115,118	0
5	EDO	B	205	4/4	0.72	0.16	62,68,72,75	0
2	LMT	E	203	24/35	0.73	0.21	61,104,121,122	0
3	SO4	D	203	5/5	0.73	0.18	99,102,105,106	0
5	EDO	J	209	4/4	0.74	0.16	67,70,70,70	0
3	SO4	I	202	5/5	0.75	0.13	93,94,97,99	0
3	SO4	C	204	5/5	0.75	0.14	93,95,97,99	0
3	SO4	H	204	5/5	0.75	0.18	146,146,148,148	0
3	SO4	G	503	5/5	0.76	0.14	91,93,94,95	0
3	SO4	F	203	5/5	0.76	0.17	112,112,114,116	0
3	SO4	E	204	5/5	0.77	0.13	69,70,77,81	0
2	LMT	F	202	35/35	0.77	0.17	46,81,101,102	0
3	SO4	A	205	5/5	0.77	0.14	89,92,95,98	0
3	SO4	I	203	5/5	0.78	0.11	75,77,79,81	0
2	LMT	J	203	28/35	0.78	0.18	42,88,102,105	0
5	EDO	G	509	4/4	0.78	0.17	66,66,67,68	0
5	EDO	J	208	4/4	0.78	0.16	52,55,58,59	0
3	SO4	C	205	5/5	0.78	0.22	102,104,104,105	0
5	EDO	E	209	4/4	0.79	0.17	56,61,65,66	0
3	SO4	B	203	5/5	0.80	0.14	126,128,128,128	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	LMT	J	202	35/35	0.80	0.15	40,77,100,103	0
3	SO4	G	502	5/5	0.80	0.14	76,88,94,95	0
5	EDO	E	210	4/4	0.81	0.17	54,57,61,66	0
5	EDO	F	207	4/4	0.81	0.14	52,54,58,62	0
3	SO4	K	203	5/5	0.81	0.17	81,91,95,96	0
3	SO4	C	203	5/5	0.81	0.14	83,89,93,96	0
2	LMT	D	202	23/35	0.81	0.19	52,72,93,96	0
5	EDO	H	206	4/4	0.82	0.15	70,76,79,83	0
5	EDO	I	206	4/4	0.82	0.15	65,66,66,67	0
2	LMT	L	201	24/35	0.83	0.18	46,71,86,88	0
3	SO4	D	201	5/5	0.83	0.18	110,111,113,116	0
2	LMT	C	207	35/35	0.83	0.17	39,72,88,94	0
3	SO4	G	504	5/5	0.83	0.14	87,90,91,92	0
5	EDO	B	209	4/4	0.84	0.15	62,63,68,70	0
3	SO4	K	204	5/5	0.84	0.10	74,78,82,83	0
2	LMT	F	201	35/35	0.84	0.15	36,60,79,81	0
3	SO4	F	204	5/5	0.85	0.10	76,81,82,84	0
2	LMT	J	201	35/35	0.85	0.15	36,58,83,84	0
2	LMT	B	202	12/35	0.85	0.18	38,50,61,62	0
2	LMT	I	205	35/35	0.85	0.15	28,67,91,93	0
3	SO4	J	204	5/5	0.85	0.13	82,84,91,95	0
5	EDO	L	204	4/4	0.85	0.14	47,50,50,52	0
2	LMT	G	506[A]	35/35	0.86	0.19	23,39,47,48	35
2	LMT	G	506[B]	35/35	0.86	0.19	28,40,62,69	35
2	LMT	G	507	35/35	0.86	0.15	32,61,92,96	0
2	LMT	H	201	31/35	0.86	0.14	35,72,96,97	0
5	EDO	B	206	4/4	0.86	0.15	55,63,68,72	0
5	EDO	B	207	4/4	0.86	0.13	68,70,70,71	0
2	LMT	C	201	35/35	0.86	0.13	35,58,88,90	0
2	LMT	E	201	35/35	0.86	0.14	36,63,89,95	0
3	SO4	E	206	5/5	0.87	0.10	79,79,81,82	0
3	SO4	D	204	5/5	0.87	0.12	72,76,82,83	0
5	EDO	F	205	4/4	0.87	0.17	61,63,65,68	0
2	LMT	A	201	35/35	0.87	0.13	33,58,98,99	0
5	EDO	K	206	4/4	0.87	0.12	47,50,53,54	0
2	LMT	C	208	35/35	0.87	0.13	30,52,78,81	0
5	EDO	L	205	4/4	0.87	0.14	42,51,53,61	0
5	EDO	L	206	4/4	0.87	0.11	53,53,57,59	0
5	EDO	D	205	4/4	0.88	0.13	49,52,53,56	0
5	EDO	F	206	4/4	0.88	0.12	59,61,66,71	0
2	LMT	K	201	35/35	0.88	0.13	25,51,90,97	0
3	SO4	L	202	5/5	0.88	0.12	62,71,72,76	0

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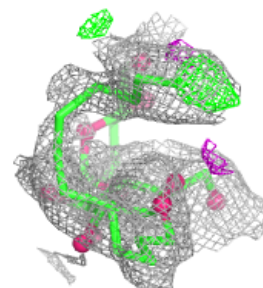
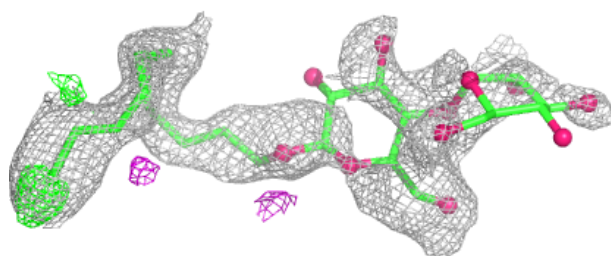
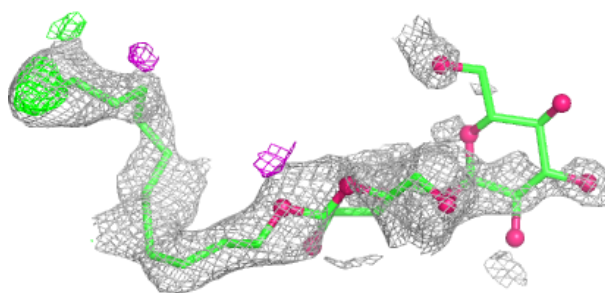
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	SO4	A	204	5/5	0.89	0.11	76,80,82,85	0
5	EDO	A	207	4/4	0.89	0.14	50,52,56,59	0
3	SO4	H	205	5/5	0.89	0.10	75,78,81,81	0
5	EDO	B	208	4/4	0.90	0.11	59,60,62,64	0
5	EDO	I	207	4/4	0.90	0.11	51,54,56,61	0
3	SO4	H	202	5/5	0.90	0.12	57,63,64,65	0
3	SO4	B	201	5/5	0.90	0.13	56,69,76,77	0
5	EDO	F	208	4/4	0.90	0.11	54,54,55,59	0
5	EDO	G	508	4/4	0.90	0.14	52,52,54,59	0
3	SO4	L	203	5/5	0.90	0.10	81,84,87,89	0
4	ACT	I	204	4/4	0.90	0.12	38,42,43,43	0
5	EDO	E	208	4/4	0.91	0.12	50,53,54,57	0
4	ACT	E	207	4/4	0.92	0.11	36,44,44,46	0
4	ACT	C	206	4/4	0.93	0.14	41,43,44,44	0
4	ACT	A	206	4/4	0.93	0.10	43,48,51,56	0
4	ACT	K	205	4/4	0.94	0.12	38,39,42,46	0
4	ACT	G	505	4/4	0.94	0.11	37,38,49,62	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.

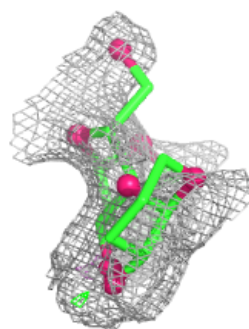
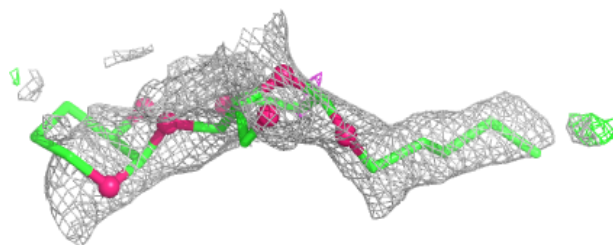
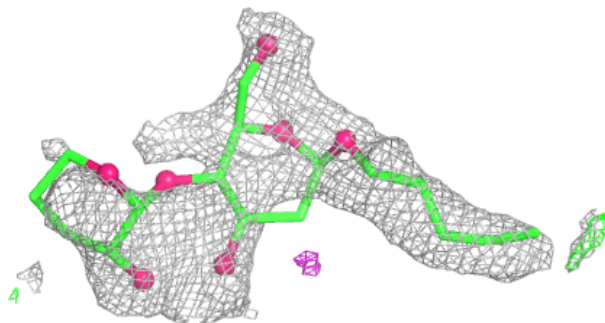
Electron density around LMT I 201:

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

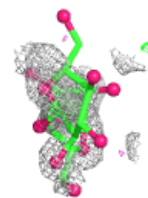
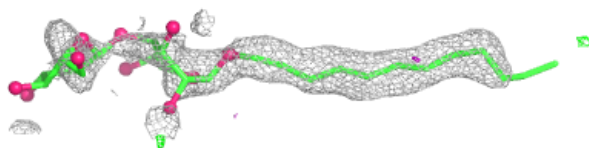
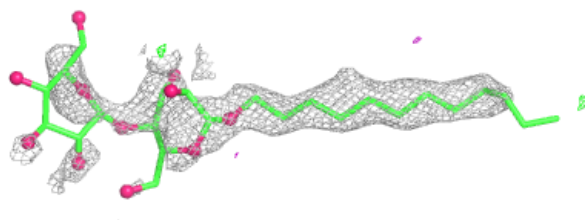


Electron density around LMT A 202:

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

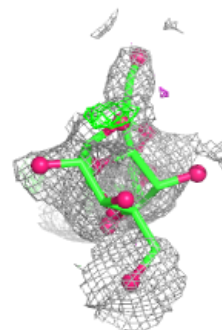
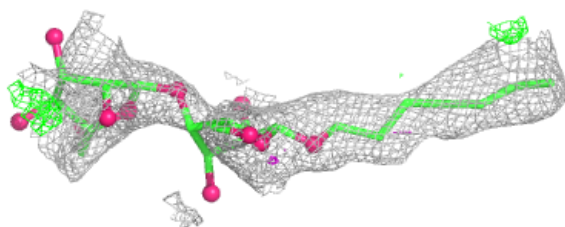
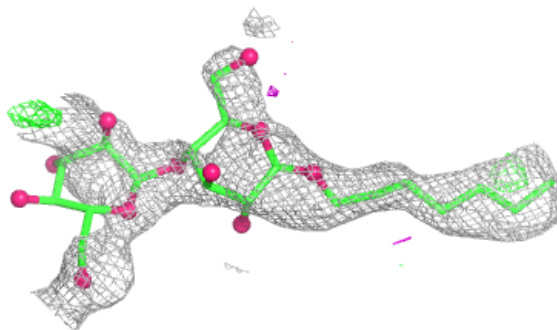
**Electron density around LMT K 202:**

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

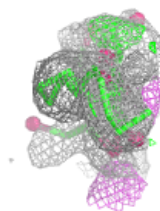
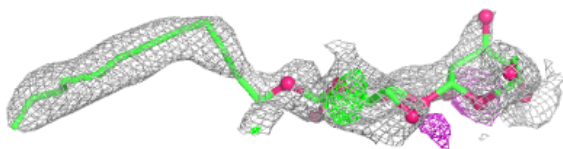
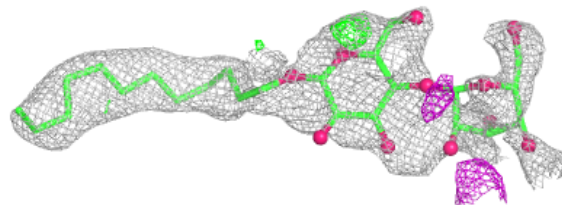


Electron density around LMT E 202:

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

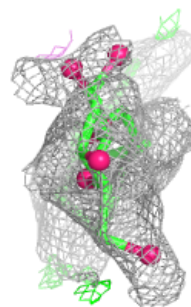
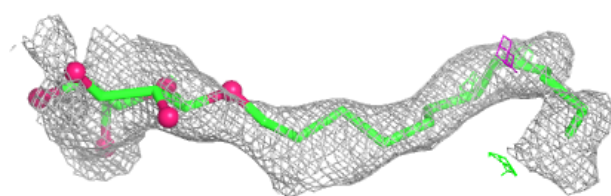
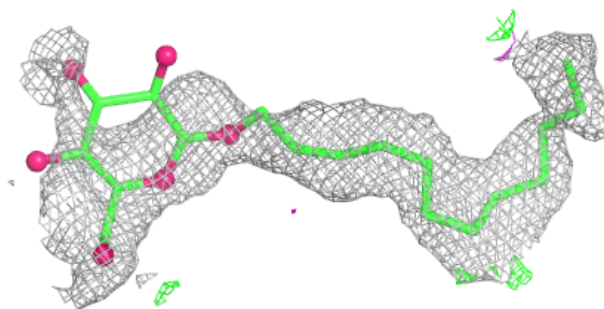
**Electron density around LMT H 203:**

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

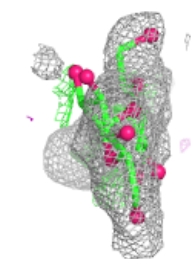
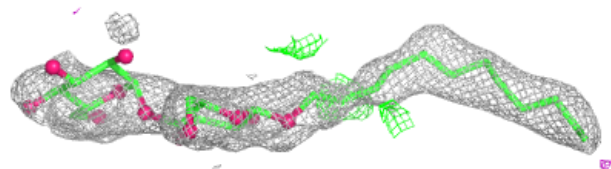
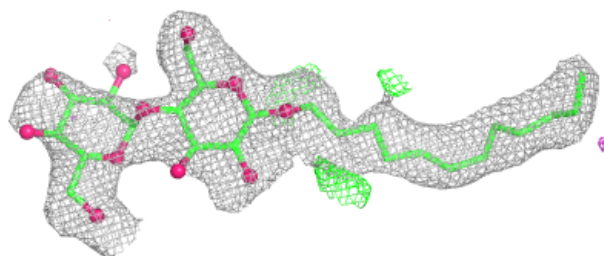


Electron density around LMT E 203:

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

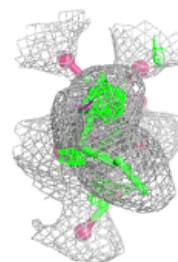
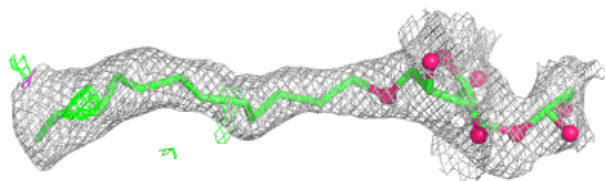
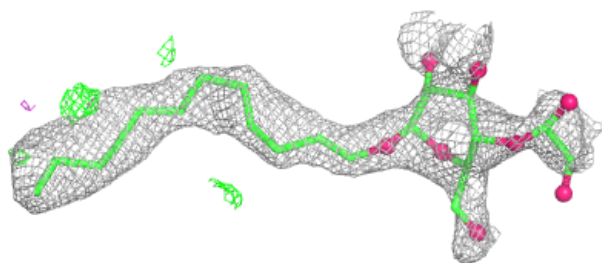
**Electron density around LMT F 202:**

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

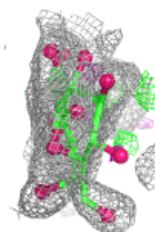
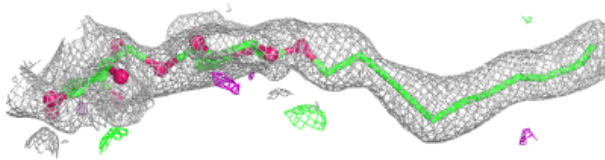
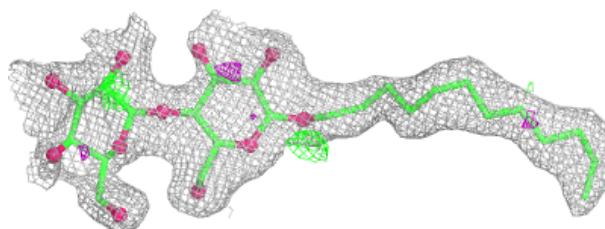


Electron density around LMT J 203:

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

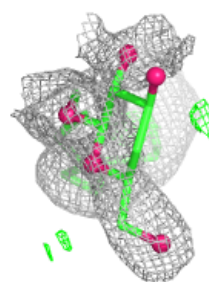
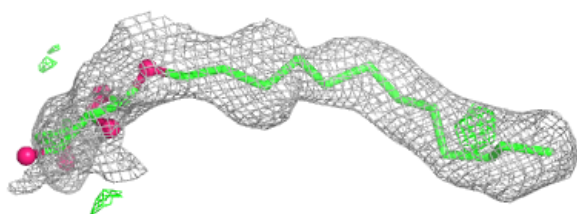
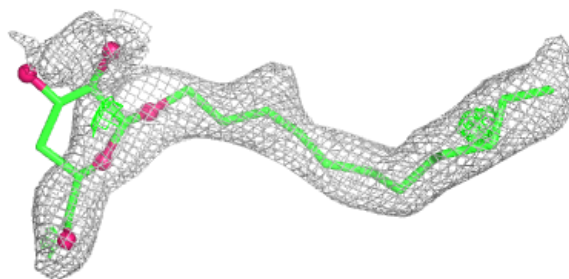
**Electron density around LMT J 202:**

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

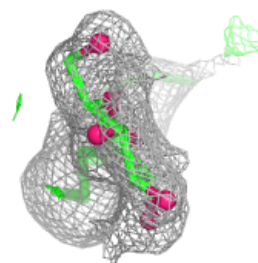
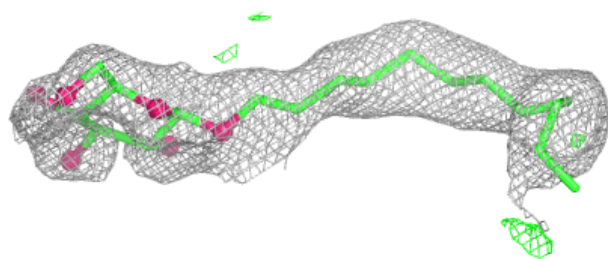
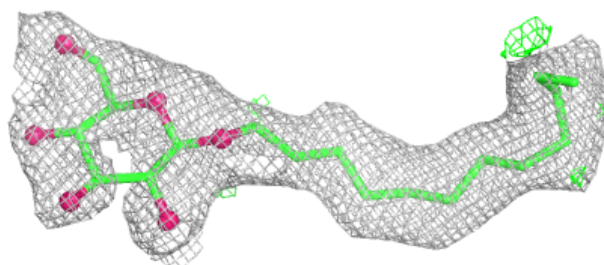


Electron density around LMT D 202:

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

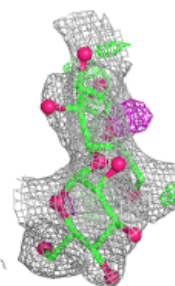
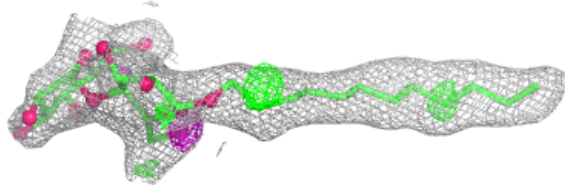
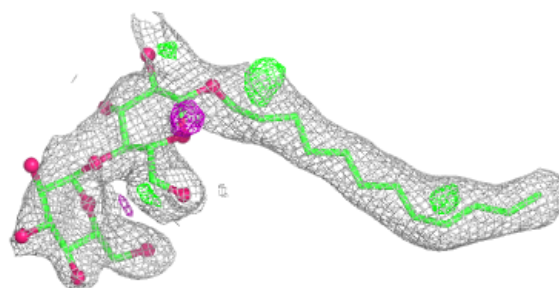
**Electron density around LMT L 201:**

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

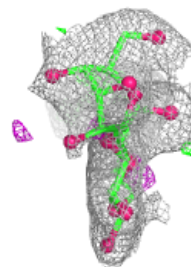
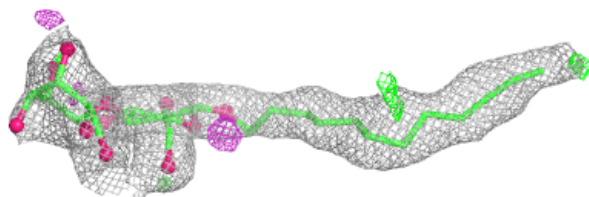
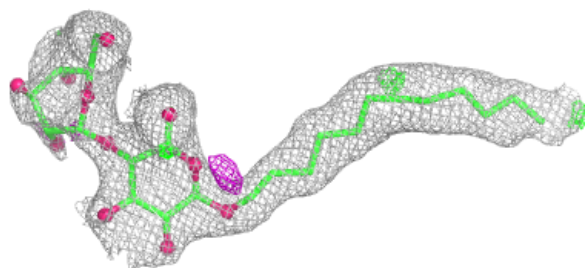


Electron density around LMT C 207:

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

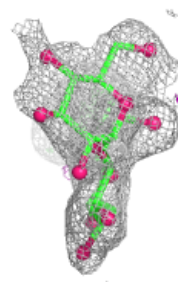
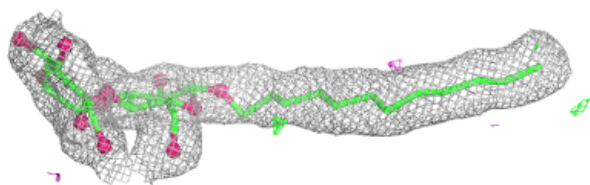
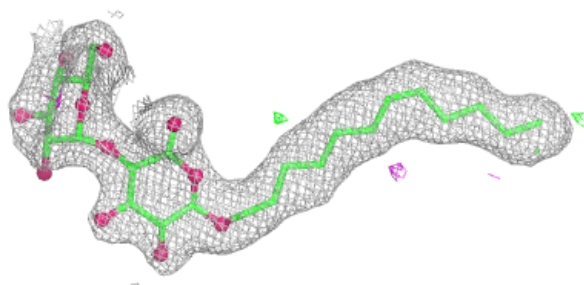
**Electron density around LMT F 201:**

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

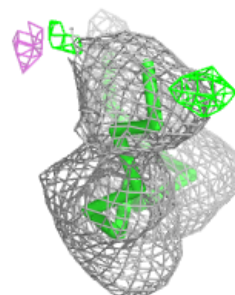
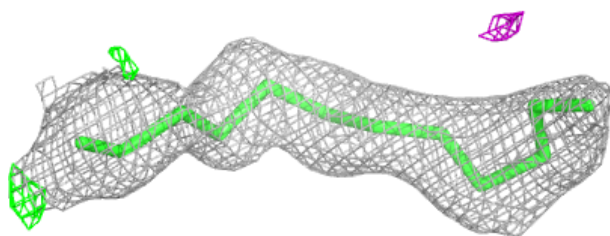
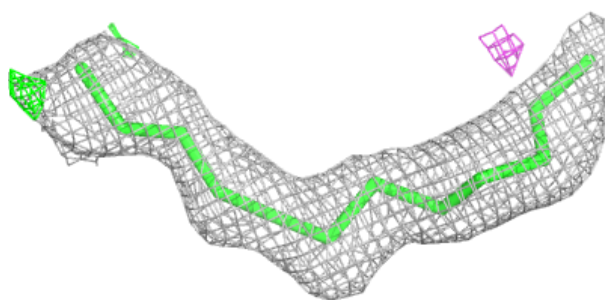


Electron density around LMT J 201:

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

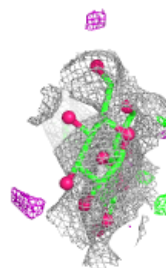
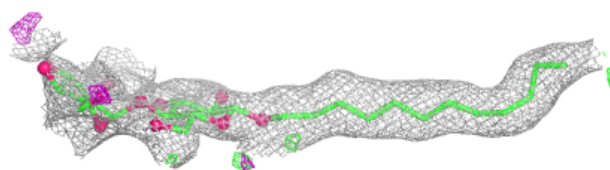
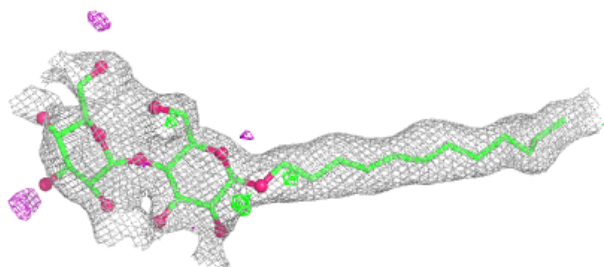
**Electron density around LMT B 202:**

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

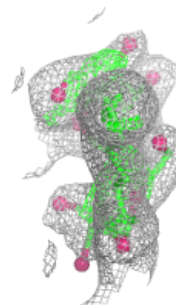
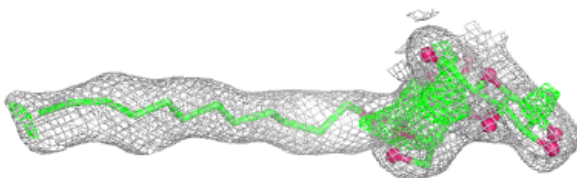
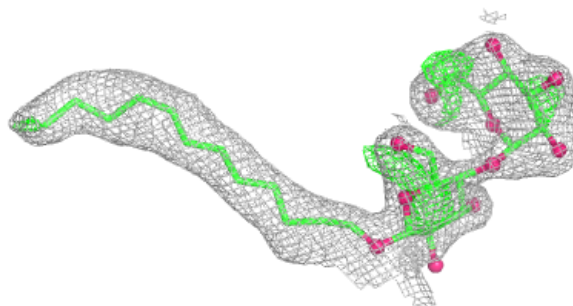


Electron density around LMT I 205:

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

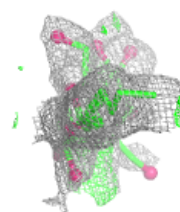
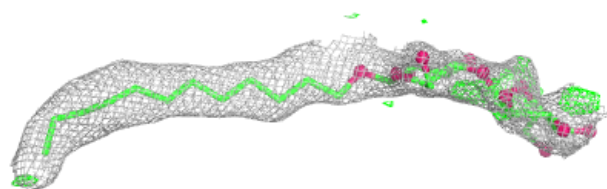
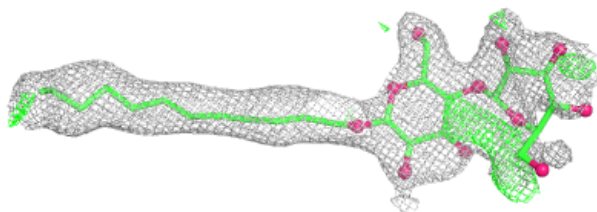
**Electron density around LMT G 506 (A):**

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

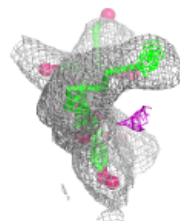
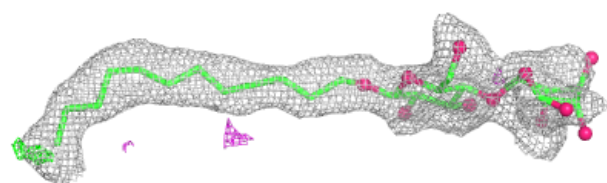
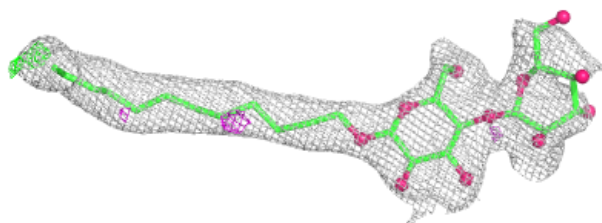


Electron density around LMT G 506 (B):

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

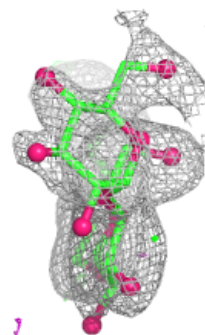
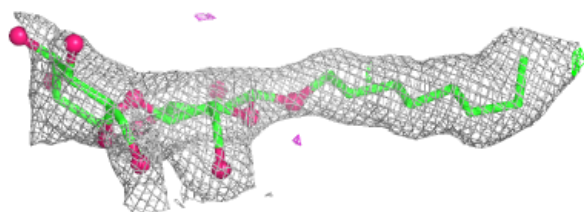
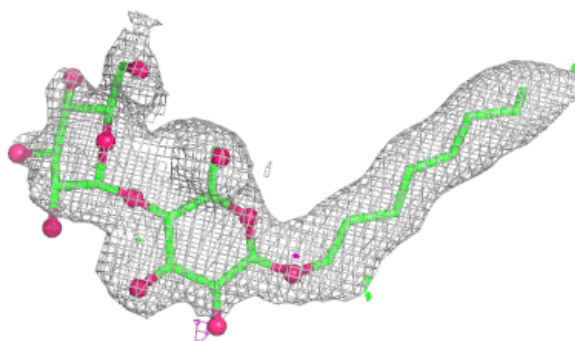
**Electron density around LMT G 507:**

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

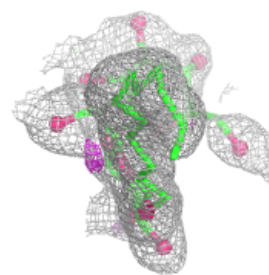
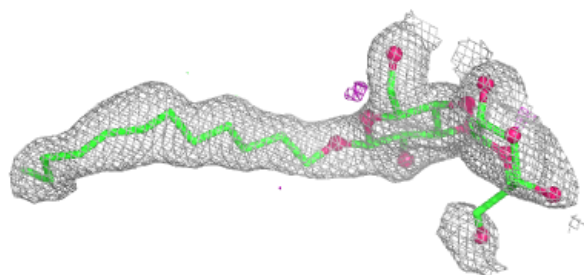
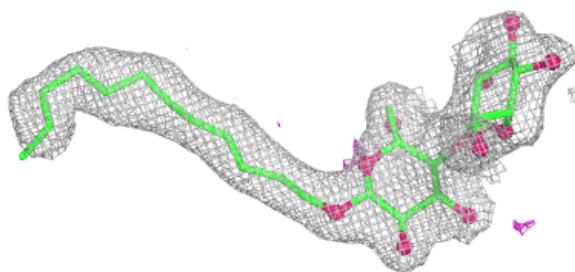


Electron density around LMT H 201:

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

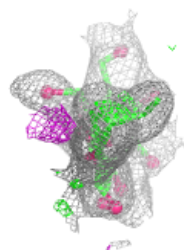
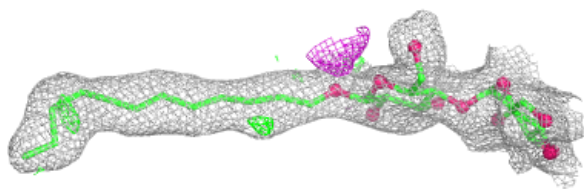
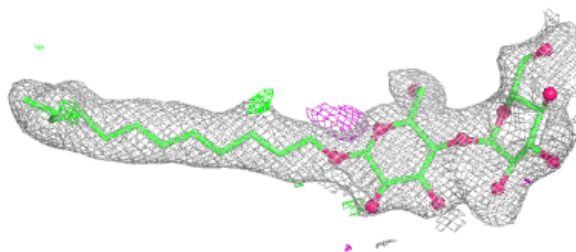
**Electron density around LMT C 201:**

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

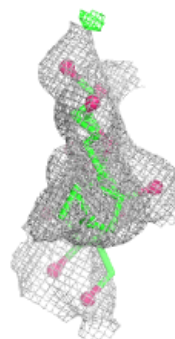
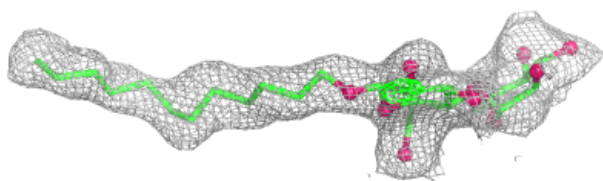
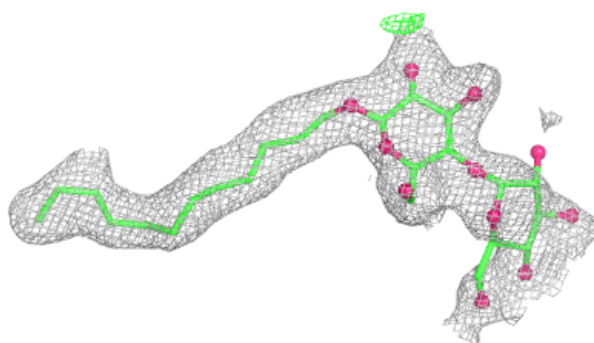


Electron density around LMT E 201:

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

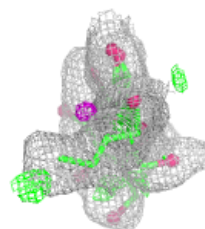
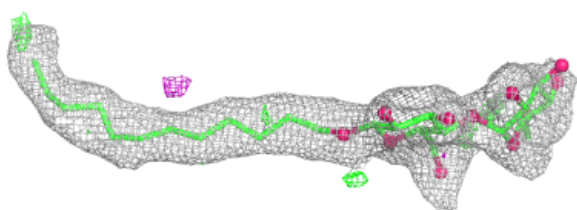
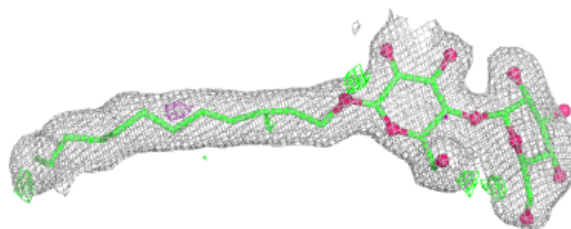
**Electron density around LMT A 201:**

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

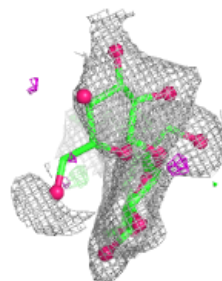
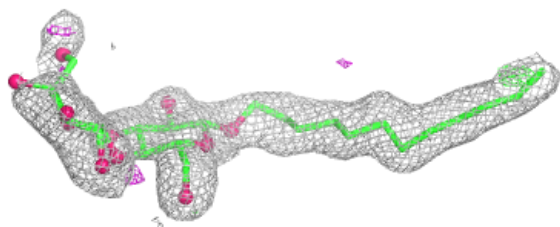
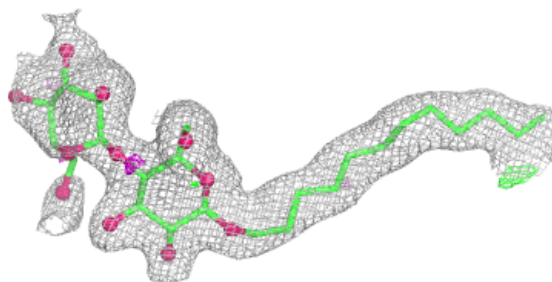


Electron density around LMT C 208:

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

**Electron density around LMT K 201:**

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



6.5 Other polymers [i](#)

There are no such residues in this entry.