wwPDB X-ray Structure Validation Summary Report (i)

Apr 22, 2025 – 02:23 AM EDT

PDB ID	:	6W1V / pdb_00006w1v
Title	:	RT XFEL structure of the two-flash state of Photosystem II (2F, S3-rich) at 2.09 Angstrom resolution
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Deposited on	:	2020-03-04
Resolution	:	2.09 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

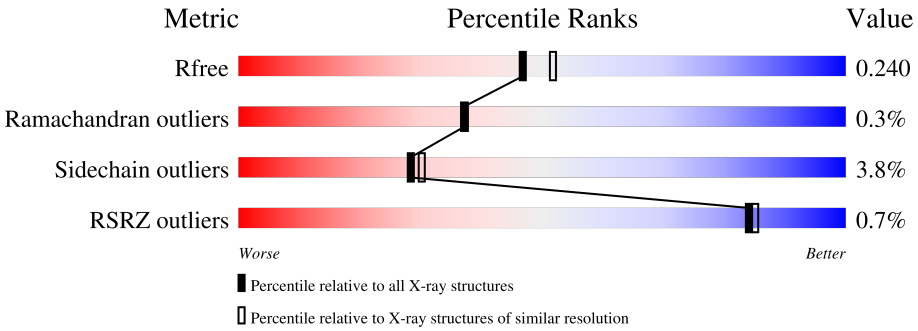
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.09 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}	164625	6234 (2.10-2.10)
Ramachandran outliers	177936	6839 (2.10-2.10)
Sidechain outliers	177891	6840 (2.10-2.10)
RSRZ outliers	164620	6234 (2.10-2.10)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	344	97%
1	a	344	% 94%
2	B	510	97%

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CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.42

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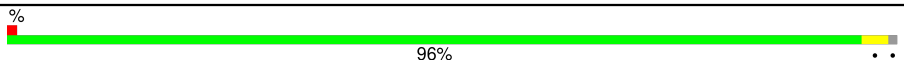
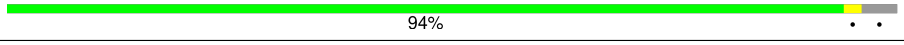
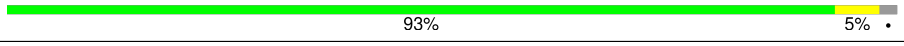
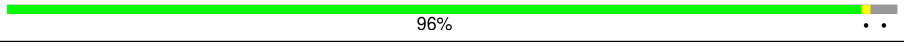
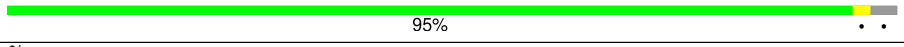
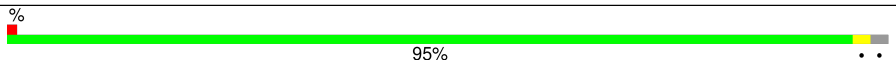
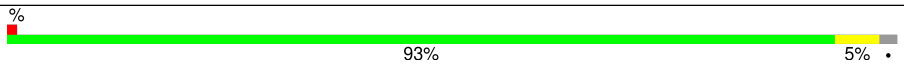
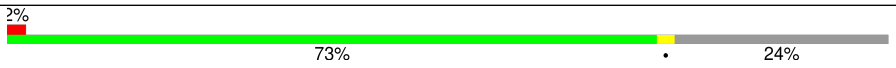
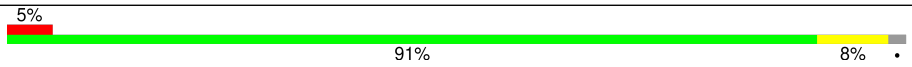
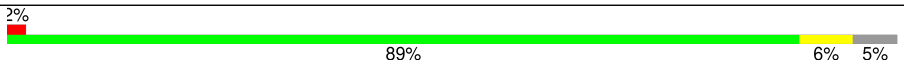
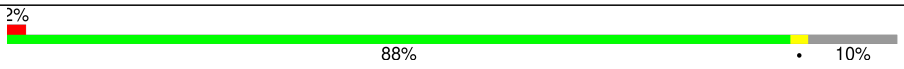
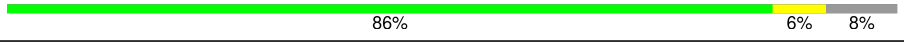
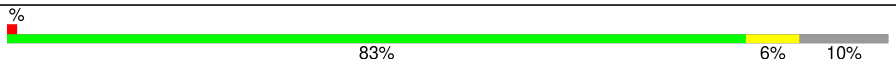
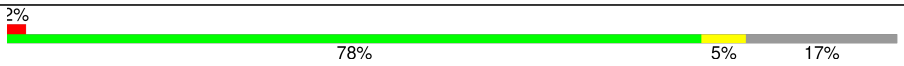
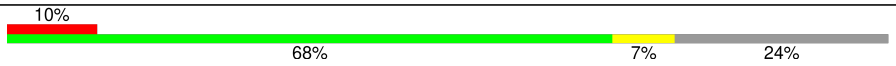
Mol	Chain	Length	Quality of chain
2	b	510	
3	C	461	
3	c	461	
4	D	352	
4	d	352	
5	E	84	
5	e	84	
6	F	45	
6	f	45	
7	H	66	
7	h	66	
8	I	38	
8	i	38	
9	J	40	
9	j	40	
10	K	46	
10	k	46	
11	L	37	
11	l	37	
12	M	36	
12	m	36	
13	O	272	
13	o	272	
14	R	41	
14	r	41	

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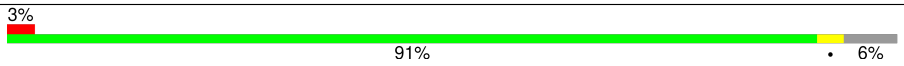
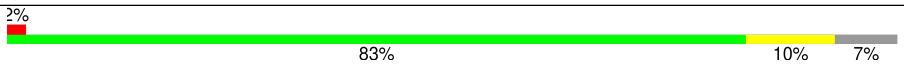
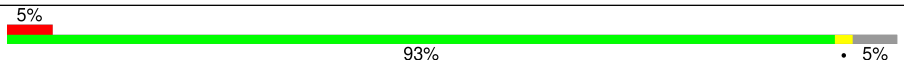
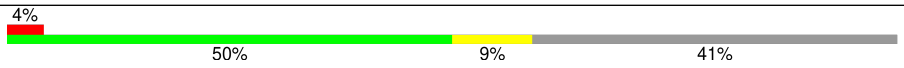
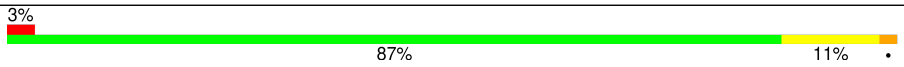
Mol	Chain	Length	Quality of chain
15	T	32	
15	t	32	
16	U	134	
16	u	134	
17	V	163	
17	v	163	
18	X	41	
18	x	41	
19	Y	46	
19	y	46	
20	Z	62	
20	z	62	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	A	402	X	-	-	-
22	CLA	A	404	X	-	-	-
22	CLA	B	702	X	-	-	-
22	CLA	B	703	X	-	-	-
22	CLA	B	704	X	-	-	-
22	CLA	B	705	X	-	-	-
22	CLA	B	706	X	-	-	-
22	CLA	B	707	X	-	-	-
22	CLA	B	708	X	-	-	-
22	CLA	B	710	X	-	-	-
22	CLA	B	712	X	-	-	-
22	CLA	B	713	X	-	-	-
22	CLA	B	714	X	-	-	-
22	CLA	B	715	X	-	-	-
22	CLA	B	716	X	-	-	-
22	CLA	C	502	X	-	-	-
22	CLA	C	504	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	C	505	X	-	-	-
22	CLA	C	506	X	-	-	-
22	CLA	C	507	X	-	-	-
22	CLA	C	508	X	-	-	-
22	CLA	C	510	X	-	-	-
22	CLA	C	511	X	-	-	-
22	CLA	C	512	X	-	-	-
22	CLA	C	513	X	-	-	-
22	CLA	C	514	X	-	-	-
22	CLA	D	401	X	-	-	-
22	CLA	D	402	X	-	-	-
22	CLA	H	102	X	-	-	-
22	CLA	a	401	X	-	-	-
22	CLA	a	406	X	-	-	-
22	CLA	b	701	X	-	-	-
22	CLA	b	703	X	-	-	-
22	CLA	b	704	X	-	-	-
22	CLA	b	705	X	-	-	-
22	CLA	b	706	X	-	-	-
22	CLA	b	707	X	-	-	-
22	CLA	b	708	X	-	-	-
22	CLA	b	709	X	-	-	-
22	CLA	b	710	X	-	-	-
22	CLA	b	711	X	-	-	-
22	CLA	b	712	X	-	-	-
22	CLA	b	713	X	-	-	-
22	CLA	b	714	X	-	-	-
22	CLA	b	715	X	-	-	-
22	CLA	b	716	X	-	-	-
22	CLA	c	502	X	-	-	-
22	CLA	c	503	X	-	-	-
22	CLA	c	504	X	-	-	-
22	CLA	c	505	X	-	-	-
22	CLA	c	506	X	-	-	-
22	CLA	c	507	X	-	-	-
22	CLA	c	508	X	-	-	-
22	CLA	c	510	X	-	-	-
22	CLA	c	511	X	-	-	-
22	CLA	c	512	X	-	-	-
22	CLA	c	513	X	-	-	-
22	CLA	c	514	X	-	-	-

2 Entry composition (i)

There are 36 unique types of molecules in this entry. The entry contains 106211 atoms, of which 52744 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 Photosystem II protein D1 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	334	Total	C	H	N	O	S	0	66	0
			6084	2030	2971	513	551	19			
1	a	334	Total	C	H	N	O	S	0	66	0
			6072	2027	2962	513	551	19			

- Molecule 2 is a protein called Photosystem II CP47 reaction center protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	B	505	Total	C	H	N	O	S	0	5	0
			7864	2631	3859	666	695	13			
2	b	505	Total	C	H	N	O	S	0	0	0
			7800	2610	3822	665	690	13			

- Molecule 3 is a protein called Photosystem II CP43 reaction center protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	C	442	Total	C	H	N	O	S	0	14	0
			6928	2302	3419	586	607	14			
3	c	451	Total	C	H	N	O	S	0	14	0
			7073	2343	3490	602	624	14			

- Molecule 4 is a protein called Photosystem II D2 protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
4	D	341	Total	C	H	N	O	S	0	2	0
			5360	1809	2629	446	464	12			
4	d	341	Total	C	H	N	O	S	0	3	0
			5372	1813	2635	446	466	12			

- Molecule 5 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	82	Total	C	H	N	O	0	1	0
			1316	436	650	107	123			
5	e	82	Total	C	H	N	O	0	0	0
			1311	434	647	108	122			

- Molecule 6 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
6	F	34	Total	C	H	N	O	S	0	0	0
			556	187	281	45	42	1			
6	f	34	Total	C	H	N	O	S	0	0	0
			556	187	281	45	42	1			

- Molecule 7 is a protein called Photosystem II reaction center protein H.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
7	H	65	Total	C	H	N	O	S	0	0	0
			1042	341	532	82	85	2			
7	h	63	Total	C	H	N	O	S	0	0	0
			1016	333	518	80	83	2			

- Molecule 8 is a protein called Photosystem II reaction center protein I.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
8	I	36	Total	C	H	N	O	S	0	0	0
			607	200	311	46	49	1			
8	i	36	Total	C	H	N	O	S	0	0	0
			607	200	311	46	49	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
I	1	FME	-	initiating methionine	UNP Q8DJZ6
i	1	FME	-	initiating methionine	UNP Q8DJZ6

- Molecule 9 is a protein called Photosystem II reaction center protein J.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
9	J	36	Total	C	H	N	O	S	0	0	0
			525	174	268	40	42	1			
9	j	36	Total	C	H	N	O	S	0	0	0
			525	174	268	40	42	1			

- Molecule 10 is a protein called Photosystem II reaction center protein K.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	K	37	Total	C	H	N	O	0	0	0
			598	204	305	43	46			
10	k	37	Total	C	H	N	O	0	0	0
			598	204	305	43	46			

- Molecule 11 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
11	L	37	Total	C	H	N	O	S	0	0	0
			620	202	316	48	53	1			
11	l	36	Total	C	H	N	O		0	0	0
			600	197	304	47	52				

- Molecule 12 is a protein called Photosystem II reaction center protein M.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
12	M	33	Total	C	H	N	O	S	0	0	0
			525	171	269	37	47	1			
12	m	32	Total	C	H	N	O	S	0	0	0
			518	168	267	36	46	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M	1	FME	-	initiating methionine	UNP Q8DHA7
m	1	FME	-	initiating methionine	UNP Q8DHA7

- Molecule 13 is a protein called Photosystem II manganese-stabilizing polypeptide.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
13	O	244	Total	C	H	N	O	S	0	1	0
			3698	1168	1828	313	385	4			
13	o	244	Total	C	H	N	O	S	0	0	0
			3718	1170	1844	317	383	4			

- Molecule 14 is a protein called Photosystem II protein Y.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	R	34	Total	C	H	N	O	0	0	0
			569	184	298	47	40			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	r	31	Total	C	H	N	O	0	0	0
			490	162	250	42	36			

- Molecule 15 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
15	T	30	Total	C	H	N	O	S	0	0	0
			519	181	261	36	39	2			
15	t	30	Total	C	H	N	O	S	0	0	0
			512	180	256	36	38	2			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
T	1	FME	-	initiating methionine	UNP Q8DIQ0
t	1	FME	-	initiating methionine	UNP Q8DIQ0

- Molecule 16 is a protein called Photosystem II 12 kDa extrinsic protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	U	97	Total	C	H	N	O	0	0	0
			1546	491	772	129	154			
16	u	97	Total	C	H	N	O	0	0	0
			1546	491	772	129	154			

- Molecule 17 is a protein called Cytochrome c-550.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
17	V	137	Total	C	H	N	O	S	0	0	0
			2132	675	1068	177	208	4			
17	v	137	Total	C	H	N	O	S	0	0	0
			2132	675	1068	177	208	4			

- Molecule 18 is a protein called Photosystem II reaction center X protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	X	38	Total	C	H	N	O	0	0	0
			593	188	312	45	48			
18	x	39	Total	C	H	N	O	0	0	0
			602	191	316	46	49			

- Molecule 19 is a protein called Photosystem II reaction center protein Ycf12.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
19	Y	27	Total	C	H	N	O	S	0	0	0
			413	128	217	35	30	3			
19	y	30	Total	C	H	N	O	S	0	0	0
			459	144	241	35	36	3			

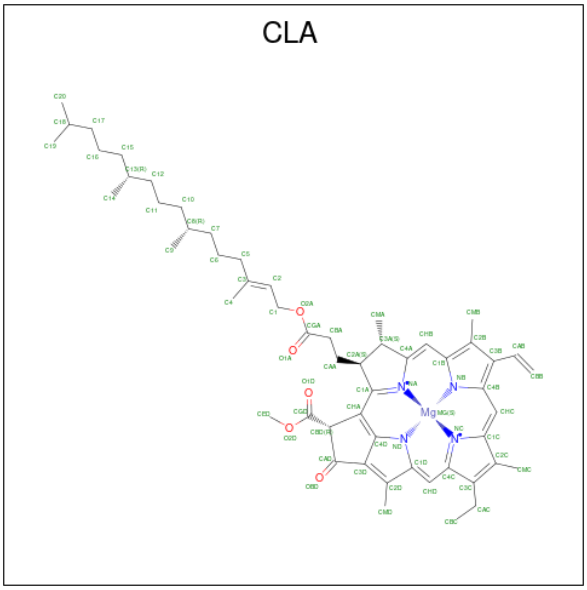
- Molecule 20 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
20	Z	62	Total	C	H	N	O	S	0	0	0
			995	328	516	72	77	2			
20	z	62	Total	C	H	N	O	S	0	0	0
			986	326	509	72	77	2			

- Molecule 21 is FE (II) ION (CCD ID: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
21	A	1	Total	Fe	0	0
			1	1		
21	a	1	Total	Fe	0	0
			1	1		

- Molecule 22 is CHLOROPHYLL A (CCD ID: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
22	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
22	A	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	A	1	Total 102	C 44	H 48	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	B	1	Total 119	C 50	H 59	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 117	C 49	H 58	Mg 1	N 4	O 5	0	0

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	D	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	D	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	D	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	H	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	a	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	a	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	a	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	a	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	b	1	Total 119	C 50	H 59	Mg 1	N 4	O 5	0	0
22	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	c	1	Total 119	C 50	H 59	Mg 1	N 4	O 5	0	0
22	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0
22	c	1	Total 132	C 54	H 68	Mg 1	N 4	O 5	0	0
22	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0	0

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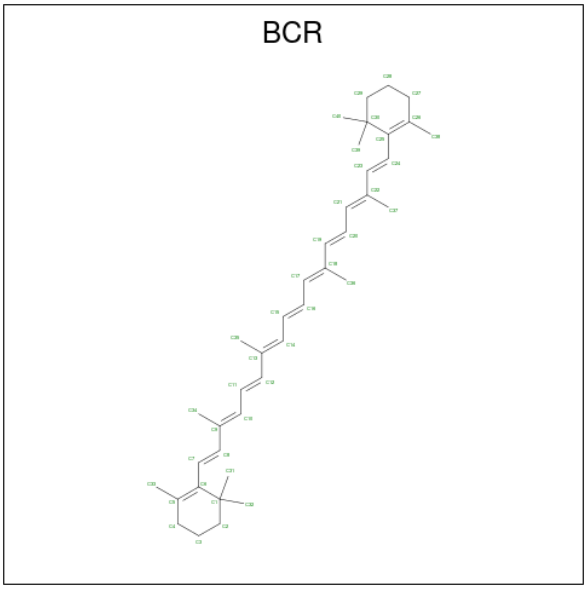
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
22	c	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
22	c	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
22	c	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
22	c	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
22	d	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
22	d	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		

- Molecule 23 is BETA-CAROTENE (CCD ID: BCR) (formula: $C_{40}H_{56}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
23	A	1	Total	C	H	0	0
			96	40	56		
23	B	1	Total	C	H	0	0
			96	40	56		
23	B	1	Total	C	H	0	0
			96	40	56		
23	B	1	Total	C	H	0	0
			96	40	56		
23	C	1	Total	C	H	0	0
			96	40	56		

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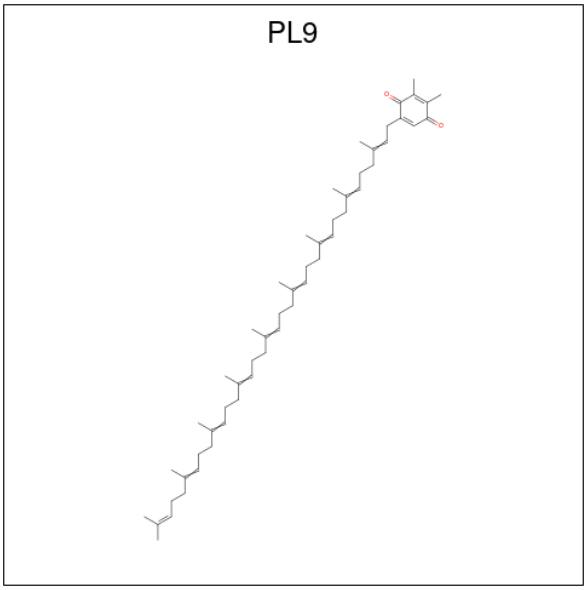
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
23	C	1	Total C H 96 40 56	0	0
23	D	1	Total C H 96 40 56	0	0
23	H	1	Total C H 96 40 56	0	0
23	K	1	Total C H 96 40 56	0	0
23	T	1	Total C H 96 40 56	0	0
23	Y	1	Total C H 96 40 56	0	0
23	a	1	Total C H 96 40 56	0	0
23	b	1	Total C H 96 40 56	0	0
23	b	1	Total C H 96 40 56	0	0
23	b	1	Total C H 96 40 56	0	0
23	c	1	Total C H 96 40 56	0	0
23	c	1	Total C H 96 40 56	0	0
23	d	1	Total C H 96 40 56	0	0
23	h	1	Total C H 96 40 56	0	0
23	k	1	Total C H 96 40 56	0	0
23	k	1	Total C H 96 40 56	0	0
23	t	1	Total C H 96 40 56	0	0

- Molecule 24 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

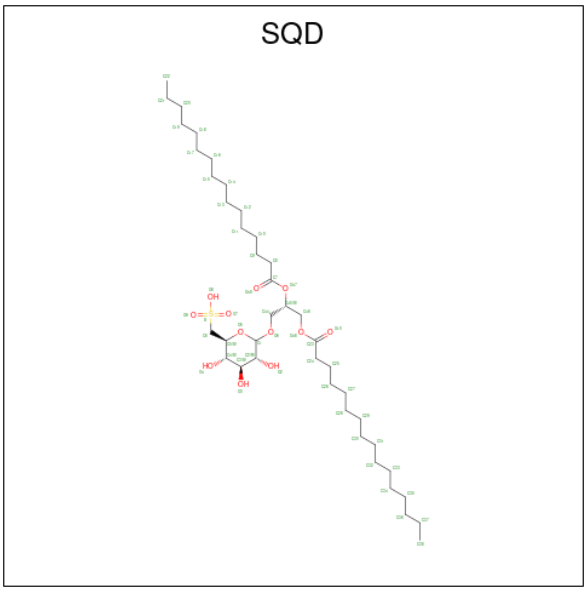
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
24	A	2	Total Cl 2 2	0	0
24	a	2	Total Cl 2 2	0	0

- Molecule 25 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (CCD ID: PL9) (formula: $C_{53}H_{80}O_2$).



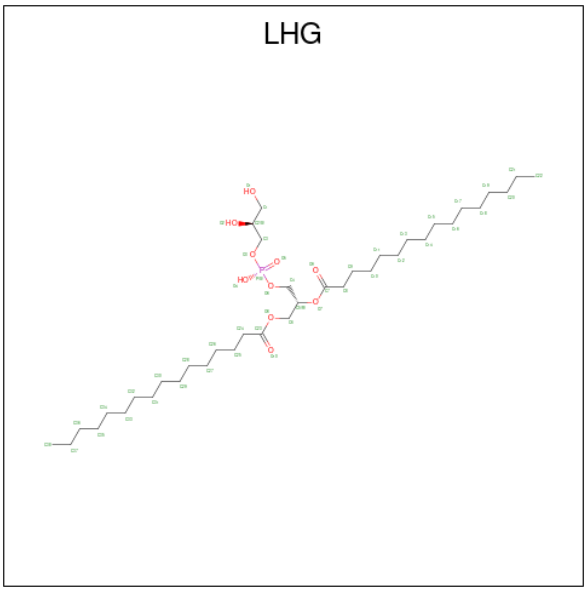
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
25	A	1	Total	C	H	O	0	0
			135	53	80	2		
25	D	1	Total	C	H	O	0	0
			135	53	80	2		
25	a	1	Total	C	H	O	0	0
			135	53	80	2		
25	d	1	Total	C	H	O	0	0
			135	53	80	2		

- Molecule 26 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: $C_{41}H_{78}O_{12}S$).



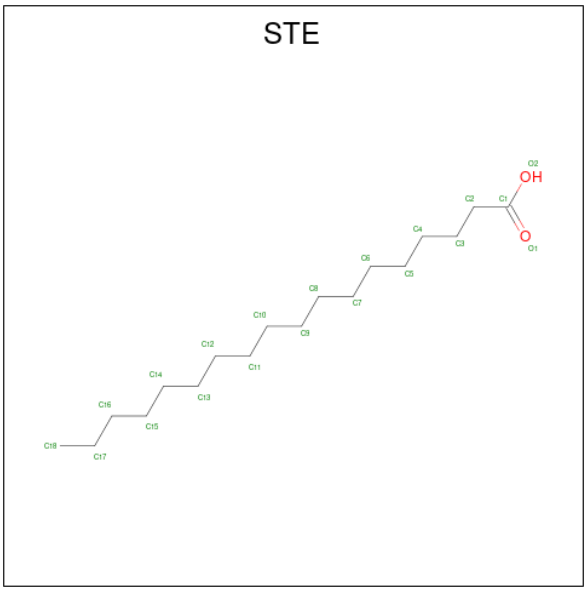
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	A	1	Total C H O S 123 39 71 12 1	0	0
26	A	1	Total C H O 104 35 65 4	0	0
26	B	1	Total C H O S 132 41 78 12 1	0	0
26	D	1	Total C H O S 82 25 46 10 1	0	0
26	a	1	Total C H O S 131 41 77 12 1	0	0
26	a	1	Total C H O 92 31 56 5	0	0
26	b	1	Total C H O S 114 36 65 12 1	0	0
26	f	1	Total C H O S 89 28 48 12 1	0	0

- Molecule 27 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $C_{38}H_{75}O_{10}P$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
27	A	1	Total	C	H	O	P	0	0
			123	38	74	10	1		
27	B	1	Total	C	H	O	P	0	0
			123	38	74	10	1		
27	D	1	Total	C	H	O	P	0	0
			123	38	74	10	1		
27	D	1	Total	C	H	O	P	0	0
			114	36	67	10	1		
27	L	1	Total	C	H	O	P	0	0
			123	38	74	10	1		
27	a	1	Total	C	H	O	P	0	0
			123	38	74	10	1		
27	a	1	Total	C	H	O	P	0	0
			99	31	57	10	1		
27	d	1	Total	C	H	O	P	0	0
			123	38	74	10	1		
27	d	1	Total	C	H	O	P	0	0
			90	28	51	10	1		
27	l	1	Total	C	H	O	P	0	0
			123	38	74	10	1		

- Molecule 28 is STEARIC ACID (CCD ID: STE) (formula: $C_{18}H_{36}O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
28	A	1	Total C H 47 16 31	0	0
28	A	1	Total C H 11 5 6	0	0
28	B	1	Total C H O 28 10 16 2	0	0
28	B	1	Total C H O 43 15 26 2	0	0
28	B	1	Total C H O 28 10 16 2	0	0
28	B	1	Total C H O 46 16 28 2	0	0
28	B	1	Total C H 47 16 31	0	0
28	C	1	Total C H O 28 10 16 2	0	0
28	C	1	Total C H 47 16 31	0	0
28	C	1	Total C H O 28 10 16 2	0	0
28	E	1	Total C H O 28 10 16 2	0	0
28	E	1	Total C H 17 7 10	0	0
28	H	1	Total C H 53 18 35	0	0
28	H	1	Total C H 20 8 12	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
28	I	1	Total C H 41 15 26	0	0
28	J	1	Total C H O 28 10 16 2	0	0
28	M	1	Total C H O 37 13 22 2	0	0
28	M	1	Total C H 26 10 16	0	0
28	T	1	Total C H 44 15 29	0	0
28	X	1	Total C H O 55 18 35 2	0	0
28	Z	1	Total C H 20 8 12	0	0
28	a	1	Total C H 26 10 16	0	0
28	a	1	Total C H O 28 10 16 2	0	0
28	a	1	Total C H 41 15 26	0	0
28	b	1	Total C H O 55 18 35 2	0	0
28	b	1	Total C H O 40 14 24 2	0	0
28	b	1	Total C H O 55 18 35 2	0	0
28	b	1	Total C H 26 10 16	0	0
28	b	1	Total C H O 55 18 35 2	0	0
28	c	1	Total C H O 28 10 16 2	0	0
28	c	1	Total C H O 55 18 35 2	0	0
28	d	1	Total C H O 43 15 26 2	0	0
28	h	1	Total C H 41 14 27	0	0
28	j	1	Total C H O 28 10 16 2	0	0
28	l	1	Total C H 53 18 35	0	0

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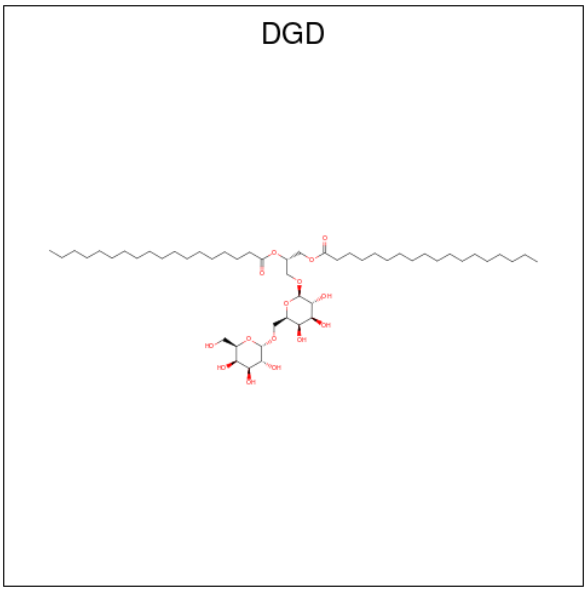
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
28	m	1	Total	C	H	O	0	0
			28	10	16	2		
28	t	1	Total	C	H	O	0	0
			34	12	20	2		
28	x	1	Total	C	H	O	0	0
			55	18	35	2		

- Molecule 29 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
29	A	1	Total	C	H	O	0	0
			162	51	96	15		
29	C	1	Total	C	H	O	0	0
			143	47	81	15		
29	C	1	Total	C	H	O	0	0
			144	47	82	15		
29	C	1	Total	C	H	O	0	0
			144	47	82	15		
29	H	1	Total	C	H	O	0	0
			143	47	81	15		
29	c	1	Total	C	H	O	0	0
			144	47	82	15		
29	c	1	Total	C	H	O	0	0
			143	47	81	15		
29	c	1	Total	C	H	O	0	0
			142	47	80	15		

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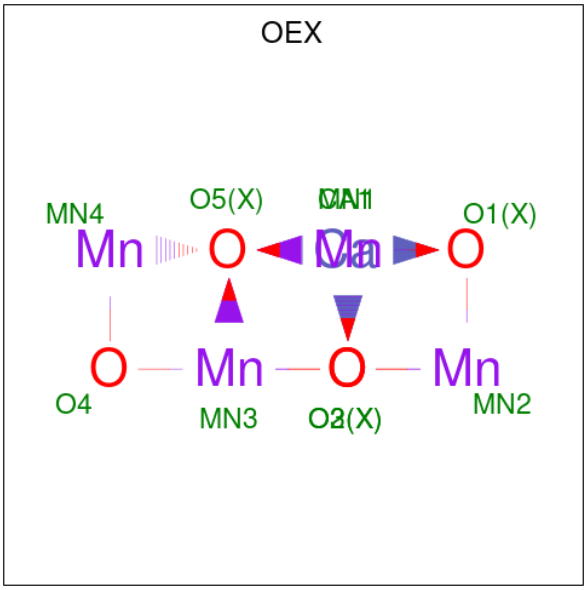
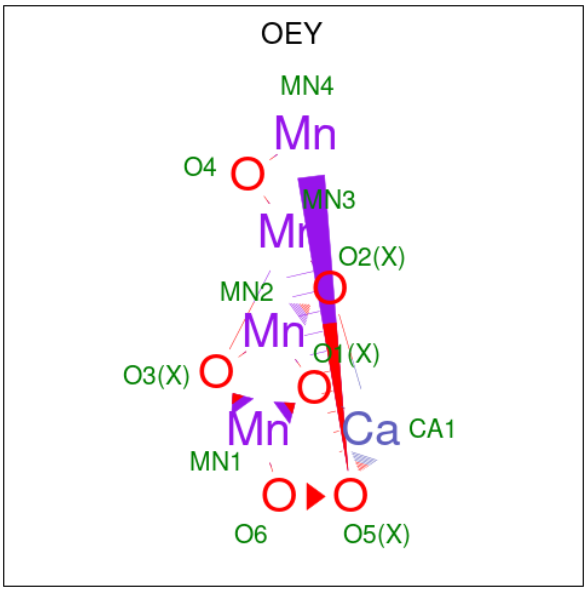
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
29	h	1	Total	C	H	O	0	0
			142	47	80	15		

- Molecule 30 is CA-MN4-O5 CLUSTER (CCD ID: OEX) (formula: $CaMn_4O_5$).



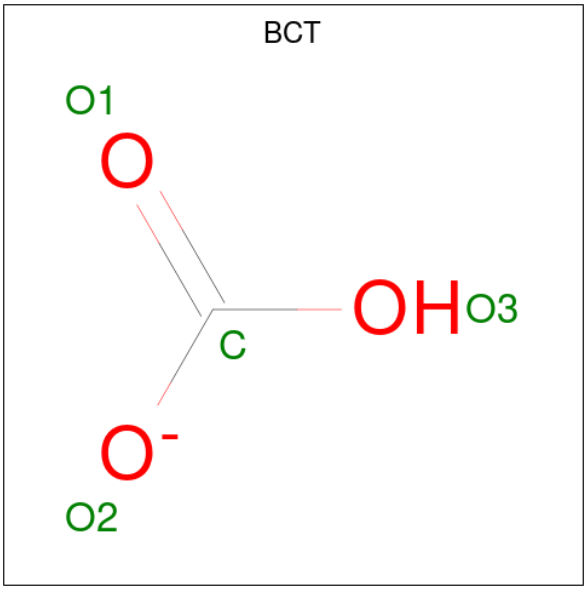
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
30	A	1	Total	Ca	Mn	O	0	1
			10	1	4	5		
30	a	1	Total	Ca	Mn	O	0	1
			10	1	4	5		

- Molecule 31 is CA-MN4-O6 CLUSTER (CCD ID: OEY) (formula: $CaMn_4O_6$).



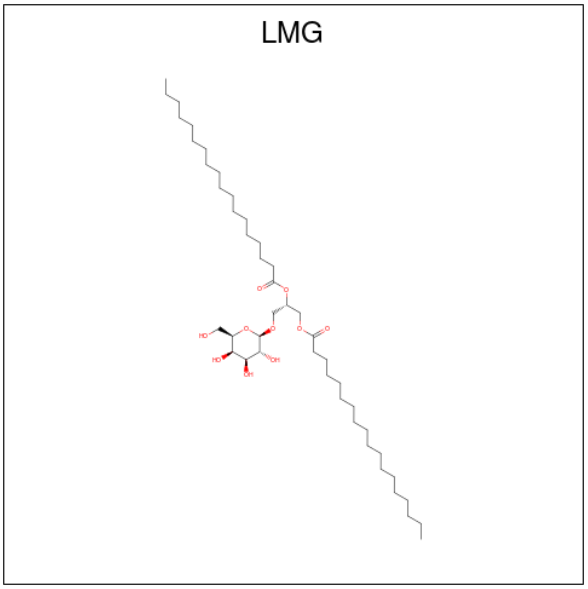
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
31	A	1	Total	Ca	Mn	O	0	1
			11	1	4	6		
31	a	1	Total	Ca	Mn	O	0	1
			11	1	4	6		

- Molecule 32 is BICARBONATE ION (CCD ID: BCT) (formula: CHO_3).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
32	A	1	Total	C	H	O	0	0
			5	1	1	3		
32	a	1	Total	C	H	O	0	0
			5	1	1	3		

- Molecule 33 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
33	B	1	Total	C	H	O	0	0
			68	24	40	4		
33	C	1	Total	C	H	O	0	0
			114	38	66	10		
33	C	1	Total	C	H	O	0	0
			114	38	66	10		
33	D	1	Total	C	H	O	0	0
			123	41	72	10		
33	D	1	Total	C	H	O	0	0
			77	27	45	5		
33	M	1	Total	C	H	O	0	0
			123	41	72	10		
33	a	1	Total	C	H	O	0	0
			141	45	86	10		
33	b	1	Total	C	H	O	0	0
			123	41	72	10		
33	b	1	Total	C	H	O	0	0
			141	45	86	10		
33	c	1	Total	C	H	O	0	0
			81	27	44	10		
33	c	1	Total	C	H	O	0	0
			117	38	69	10		
33	c	1	Total	C	H	O	0	0
			117	39	68	10		

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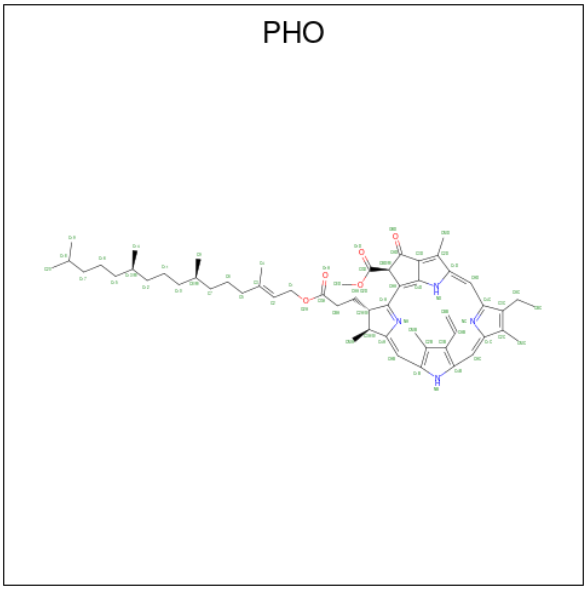
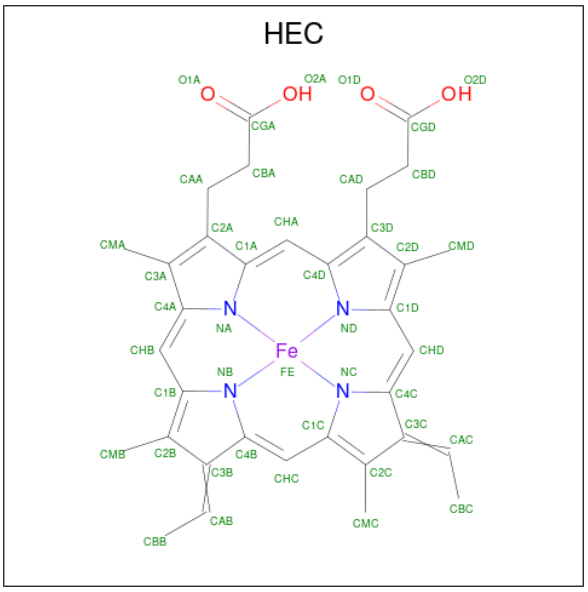
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
33	d	1	Total	C	H	O	0	0
			102	34	58	10		

- Molecule 34 is PHEOPHYTIN A (CCD ID: PHO) (formula: $C_{55}H_{74}N_4O_5$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
34	D	1	Total	C	H	N	O	0	0
			138	55	74	4	5		
34	D	1	Total	C	H	N	O	0	0
			138	55	74	4	5		
34	a	1	Total	C	H	N	O	0	0
			138	55	74	4	5		
34	d	1	Total	C	H	N	O	0	0
			138	55	74	4	5		

- Molecule 35 is HEME C (CCD ID: HEC) (formula: $C_{34}H_{34}FeN_4O_4$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
35	E	1	Total	C	Fe	H	N	O	0	0
			75	34	1	32	4	4		
35	V	1	Total	C	Fe	H	N	O	0	0
			73	34	1	30	4	4		
35	e	1	Total	C	Fe	H	N	O	0	0
			75	34	1	32	4	4		
35	v	1	Total	C	Fe	H	N	O	0	0
			73	34	1	30	4	4		

- Molecule 36 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
36	A	145	Total	O	0	8
			145	145		
36	B	233	Total	O	0	0
			233	233		
36	C	168	Total	O	0	0
			168	168		
36	D	115	Total	O	0	0
			115	115		
36	E	37	Total	O	0	0
			37	37		
36	F	6	Total	O	0	0
			6	6		
36	H	35	Total	O	0	0
			35	35		
36	I	20	Total	O	0	0
			20	20		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
36	J	15	Total O 15 15	0	0
36	K	3	Total O 3 3	0	0
36	L	9	Total O 9 9	0	0
36	M	8	Total O 8 8	0	0
36	O	106	Total O 106 106	0	0
36	R	3	Total O 3 3	0	0
36	T	9	Total O 9 9	0	0
36	U	53	Total O 53 53	0	0
36	V	63	Total O 63 63	0	0
36	X	17	Total O 17 17	0	0
36	Y	3	Total O 3 3	0	0
36	a	130	Total O 130 130	0	8
36	b	193	Total O 193 193	0	0
36	c	169	Total O 169 169	0	0
36	d	106	Total O 106 106	0	0
36	e	23	Total O 23 23	0	0
36	f	4	Total O 4 4	0	0
36	h	22	Total O 22 22	0	0
36	i	17	Total O 17 17	0	0
36	j	7	Total O 7 7	0	0
36	k	4	Total O 4 4	0	0

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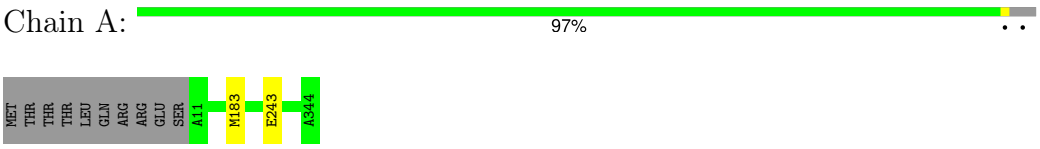
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
36	l	12	Total O 12 12	0	0
36	m	5	Total O 5 5	0	0
36	o	97	Total O 97 97	0	0
36	r	8	Total O 8 8	0	0
36	t	7	Total O 7 7	0	0
36	u	63	Total O 63 63	0	0
36	v	64	Total O 64 64	0	0
36	x	7	Total O 7 7	0	0
36	y	8	Total O 8 8	0	0
36	z	8	Total O 8 8	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

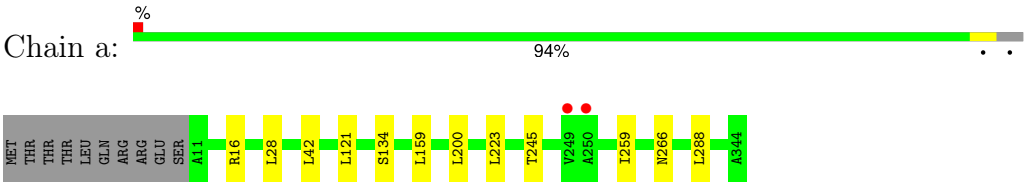
• Molecule 1: Photosystem II protein D1 1

Chain A:



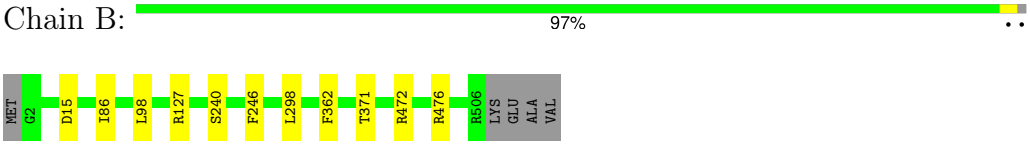
• Molecule 1: Photosystem II protein D1 1

Chain a:



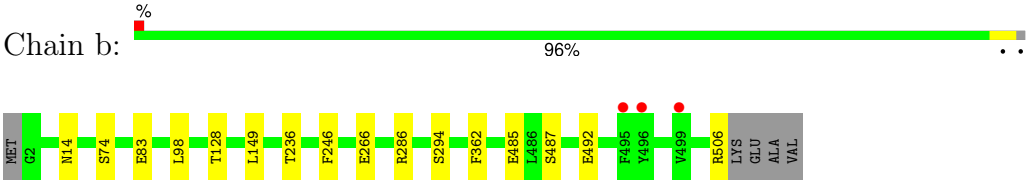
• Molecule 2: Photosystem II CP47 reaction center protein

Chain B:



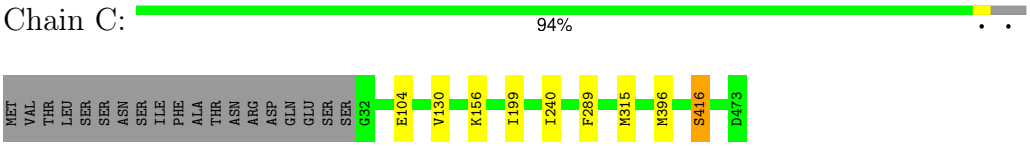
• Molecule 2: Photosystem II CP47 reaction center protein

Chain b:



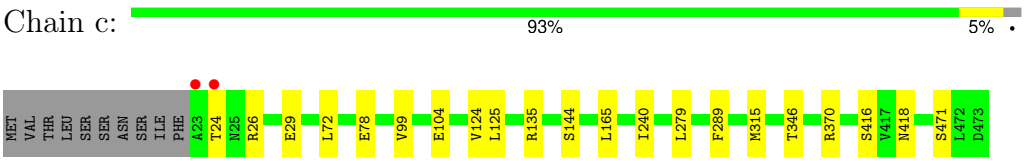
• Molecule 3: Photosystem II CP43 reaction center protein

Chain C:



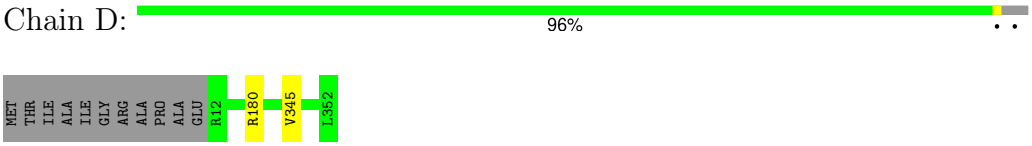
• Molecule 3: Photosystem II CP43 reaction center protein

Chain c:



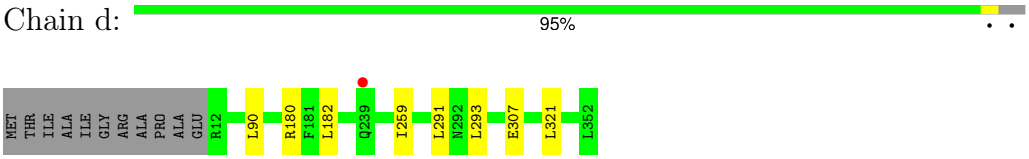
• Molecule 4: Photosystem II D2 protein

Chain D:



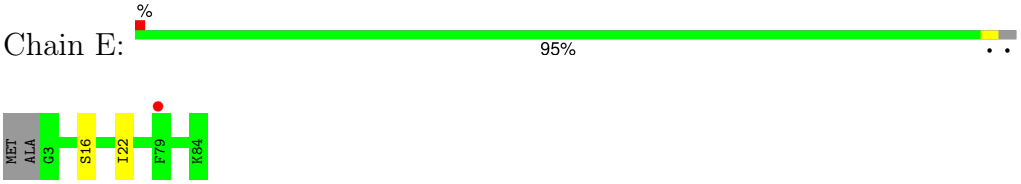
• Molecule 4: Photosystem II D2 protein

Chain d:



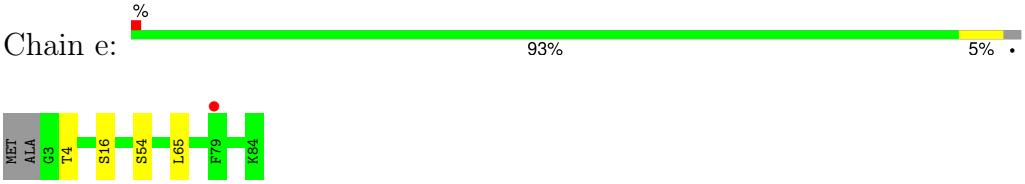
• Molecule 5: Cytochrome b559 subunit alpha

Chain E:



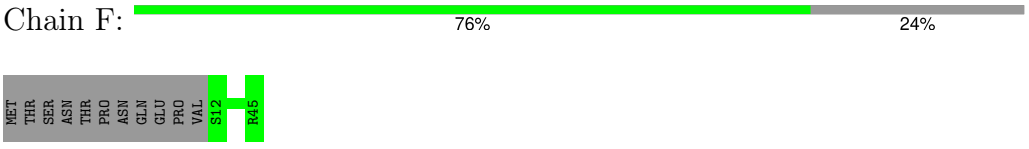
• Molecule 5: Cytochrome b559 subunit alpha

Chain e:



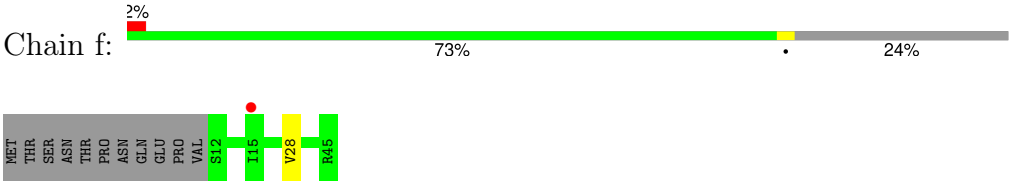
• Molecule 6: Cytochrome b559 subunit beta

Chain F:



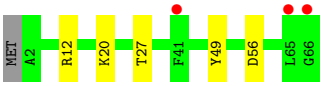
• Molecule 6: Cytochrome b559 subunit beta

Chain f:



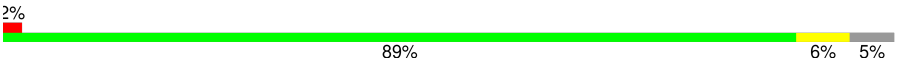
• Molecule 7: Photosystem II reaction center protein H

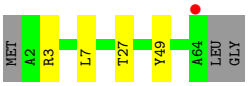
Chain H:



• Molecule 7: Photosystem II reaction center protein H

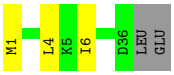
Chain h:





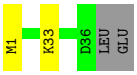
• Molecule 8: Photosystem II reaction center protein I

Chain I:



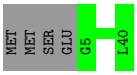
• Molecule 8: Photosystem II reaction center protein I

Chain i:



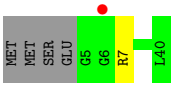
• Molecule 9: Photosystem II reaction center protein J

Chain J:



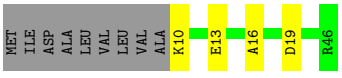
• Molecule 9: Photosystem II reaction center protein J

Chain j:



• Molecule 10: Photosystem II reaction center protein K

Chain K:

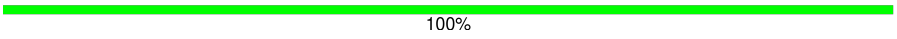


• Molecule 10: Photosystem II reaction center protein K

Chain k:

• Molecule 11: Photosystem II reaction center protein L

Chain L:



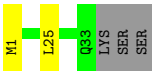
There are no outlier residues recorded for this chain.

• Molecule 11: Photosystem II reaction center protein L

Chain l:

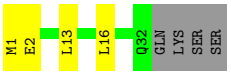
• Molecule 12: Photosystem II reaction center protein M

Chain M:



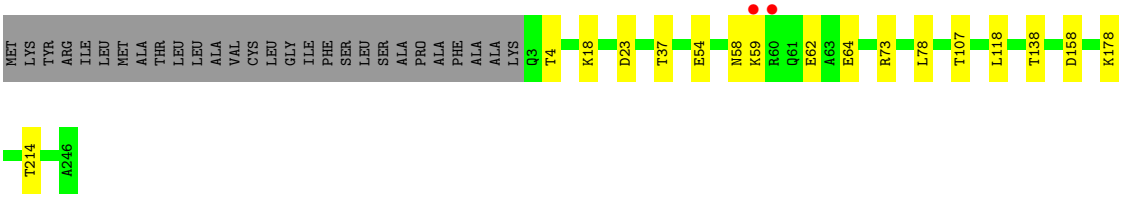
• Molecule 12: Photosystem II reaction center protein M

Chain m:



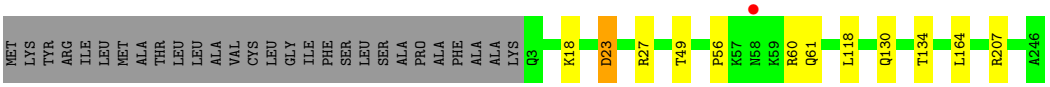
• Molecule 13: Photosystem II manganese-stabilizing polypeptide

Chain O:



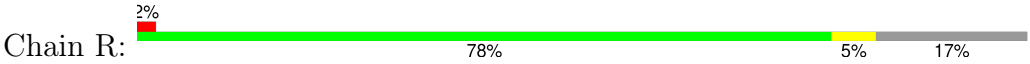
• Molecule 13: Photosystem II manganese-stabilizing polypeptide

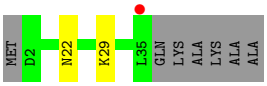
Chain o:



• Molecule 14: Photosystem II protein Y

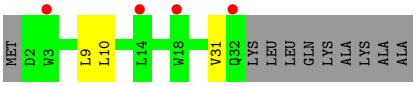
Chain R:





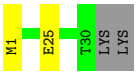
• Molecule 14: Photosystem II protein Y

Chain r:



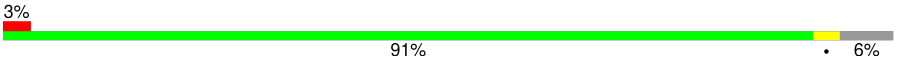
• Molecule 15: Photosystem II reaction center protein T

Chain T:



• Molecule 15: Photosystem II reaction center protein T

Chain t:



• Molecule 16: Photosystem II 12 kDa extrinsic protein

Chain U:

• Molecule 16: Photosystem II 12 kDa extrinsic protein

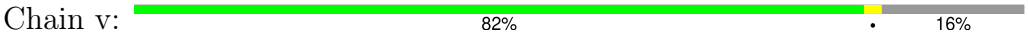
Chain u:

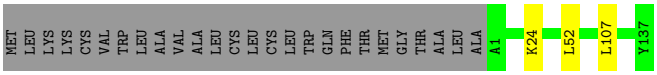
• Molecule 17: Cytochrome c-550

Chain V:

• Molecule 17: Cytochrome c-550

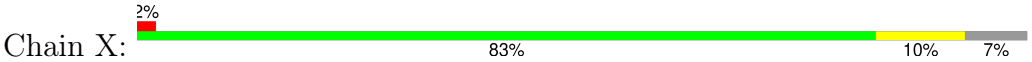
Chain v:

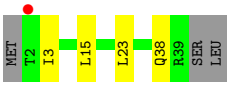




• Molecule 18: Photosystem II reaction center X protein

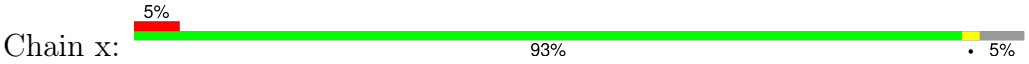
Chain X:





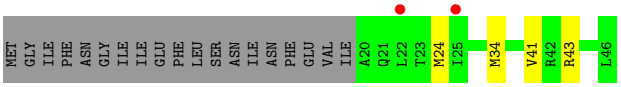
• Molecule 18: Photosystem II reaction center X protein

Chain x:



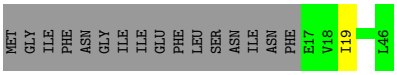
• Molecule 19: Photosystem II reaction center protein Ycf12

Chain Y:



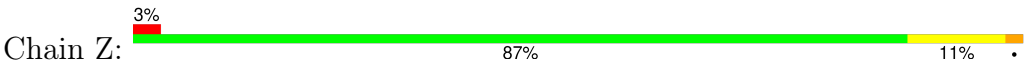
• Molecule 19: Photosystem II reaction center protein Ycf12

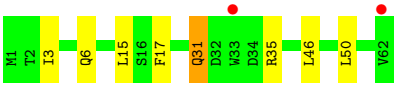
Chain y:



• Molecule 20: Photosystem II reaction center protein Z

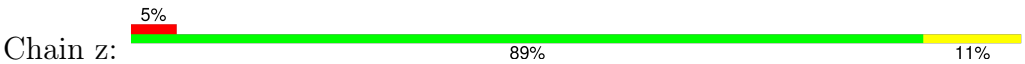
Chain Z:

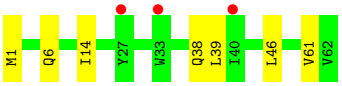




• Molecule 20: Photosystem II reaction center protein Z

Chain z:




M1
Q6
I14
Y27
W33
Q38
L39
I40
L46
V61
V62

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	116.96Å 221.65Å 307.79Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	33.65 – 2.09 33.65 – 2.09	Depositor EDS
% Data completeness (in resolution range)	99.6 (33.65-2.09) 84.9 (33.65-2.09)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.75 (at 2.08Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.182 , 0.241 0.182 , 0.240	Depositor DCC
R_{free} test set	4165 reflections (0.89%)	wwPDB-VP
Wilson B-factor (Å^2)	26.4	Xtriage
Anisotropy	0.198	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 55.3	EDS
L-test for twinning[2]	$< \|L\| > = 0.45$, $< L^2 > = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	106211	wwPDB-VP
Average B, all atoms (Å^2)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.43% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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: SQD, LMG, BCR, HEC, DGD, FME, CL, PL9, OEY, BCT, STE, OEX, CLA, PHO, FE2, LHG

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	0.62	0/3227	0.68	2/4397 (0.0%)
1	a	0.62	0/3224	0.68	0/4393
2	B	0.64	0/4161	0.71	1/5669 (0.0%)
2	b	0.64	0/4118	0.68	0/5611
3	C	0.64	0/3647	0.67	1/4965 (0.0%)
3	c	0.60	0/3719	0.68	1/5061 (0.0%)
4	D	0.67	0/2825	0.70	0/3847
4	d	0.65	0/2834	0.71	0/3859
5	E	0.53	0/688	0.58	0/940
5	e	0.49	0/683	0.55	0/932
6	F	0.51	0/284	0.51	0/387
6	f	0.48	0/284	0.62	0/387
7	H	0.65	0/523	0.68	0/713
7	h	0.58	0/511	0.67	0/697
8	I	0.60	0/293	0.61	0/396
8	i	0.68	0/293	0.61	0/396
9	J	0.54	0/263	0.61	0/356
9	j	0.56	0/263	0.59	0/356
10	K	0.55	0/303	0.60	0/416
10	k	0.53	0/303	0.65	0/416
11	L	0.64	0/311	0.72	0/422
11	l	0.68	0/303	0.74	0/412
12	M	0.65	0/249	0.67	0/341
12	m	0.70	0/244	0.67	0/334
13	O	0.61	0/1904	0.73	1/2585 (0.0%)
13	o	0.61	0/1905	0.73	1/2583 (0.0%)
14	R	0.44	0/277	0.60	0/380
14	r	0.41	0/246	0.60	0/339
15	T	0.75	0/257	0.72	0/349
15	t	0.71	0/255	0.64	0/346
16	U	0.58	0/785	0.68	0/1064
16	u	0.62	0/785	0.74	0/1064

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
17	V	0.60	0/1085	0.73	1/1473 (0.1%)
17	v	0.58	0/1085	0.67	0/1473
18	X	0.50	0/284	0.60	0/384
18	x	0.41	0/289	0.55	0/391
19	Y	0.43	0/197	0.56	0/264
19	y	0.38	0/219	0.55	0/294
20	Z	0.49	0/490	0.62	0/669
20	z	0.40	0/488	0.51	0/666
All	All	0.61	0/44104	0.68	8/60027 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
17	V	0	1

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	V	63	THR	C-N-CD	-7.20	104.76	120.60
2	B	15	ASP	CB-CG-OD2	-6.76	112.21	118.30
3	C	396	MET	CG-SD-CE	-5.43	91.51	100.20
1	A	183[A]	MET	CA-CB-CG	5.29	122.29	113.30
1	A	183[B]	MET	CA-CB-CG	5.29	122.29	113.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
17	V	63	THR	Peptide

5.2 Too-close contacts (i)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	397/344 (115%)	387 (98%)	10 (2%)	0	100	100
1	a	397/344 (115%)	387 (98%)	9 (2%)	1 (0%)	37	37
2	B	508/510 (100%)	500 (98%)	8 (2%)	0	100	100
2	b	503/510 (99%)	491 (98%)	11 (2%)	1 (0%)	44	45
3	C	454/461 (98%)	440 (97%)	13 (3%)	1 (0%)	44	45
3	c	463/461 (100%)	447 (96%)	15 (3%)	1 (0%)	44	45
4	D	340/352 (97%)	332 (98%)	8 (2%)	0	100	100
4	d	341/352 (97%)	330 (97%)	11 (3%)	0	100	100
5	E	81/84 (96%)	79 (98%)	2 (2%)	0	100	100
5	e	80/84 (95%)	75 (94%)	5 (6%)	0	100	100
6	F	32/45 (71%)	32 (100%)	0	0	100	100
6	f	32/45 (71%)	31 (97%)	1 (3%)	0	100	100
7	H	63/66 (96%)	59 (94%)	3 (5%)	1 (2%)	8	4
7	h	61/66 (92%)	58 (95%)	3 (5%)	0	100	100
8	I	34/38 (90%)	33 (97%)	1 (3%)	0	100	100
8	i	34/38 (90%)	32 (94%)	2 (6%)	0	100	100
9	J	34/40 (85%)	33 (97%)	1 (3%)	0	100	100
9	j	34/40 (85%)	34 (100%)	0	0	100	100
10	K	35/46 (76%)	33 (94%)	1 (3%)	1 (3%)	3	1
10	k	35/46 (76%)	35 (100%)	0	0	100	100
11	L	35/37 (95%)	35 (100%)	0	0	100	100
11	l	34/37 (92%)	34 (100%)	0	0	100	100
12	M	31/36 (86%)	31 (100%)	0	0	100	100
12	m	30/36 (83%)	28 (93%)	2 (7%)	0	100	100
13	O	243/272 (89%)	228 (94%)	11 (4%)	4 (2%)	8	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
13	o	242/272 (89%)	228 (94%)	12 (5%)	2 (1%)	16 13
14	R	32/41 (78%)	27 (84%)	5 (16%)	0	100 100
14	r	29/41 (71%)	27 (93%)	1 (3%)	1 (3%)	3 1
15	T	28/32 (88%)	28 (100%)	0	0	100 100
15	t	28/32 (88%)	28 (100%)	0	0	100 100
16	U	95/134 (71%)	92 (97%)	3 (3%)	0	100 100
16	u	95/134 (71%)	91 (96%)	3 (3%)	1 (1%)	12 8
17	V	135/163 (83%)	129 (96%)	5 (4%)	1 (1%)	19 16
17	v	135/163 (83%)	130 (96%)	5 (4%)	0	100 100
18	X	36/41 (88%)	35 (97%)	1 (3%)	0	100 100
18	x	37/41 (90%)	35 (95%)	2 (5%)	0	100 100
19	Y	25/46 (54%)	23 (92%)	1 (4%)	1 (4%)	2 0
19	y	28/46 (61%)	25 (89%)	3 (11%)	0	100 100
20	Z	60/62 (97%)	54 (90%)	5 (8%)	1 (2%)	7 4
20	z	60/62 (97%)	56 (93%)	3 (5%)	1 (2%)	7 4
All	All	5396/5700 (95%)	5212 (97%)	166 (3%)	18 (0%)	37 37

5 of 18 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	416	SER
10	K	16	ALA
13	O	59	LYS
17	V	64	PRO
14	r	31	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	324/280 (116%)	323 (100%)	1 (0%)	91 94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	a	323/280 (115%)	311 (96%)	12 (4%)	29 31
2	B	408/407 (100%)	398 (98%)	10 (2%)	42 47
2	b	402/407 (99%)	387 (96%)	15 (4%)	29 31
3	C	356/362 (98%)	348 (98%)	8 (2%)	47 53
3	c	364/362 (101%)	345 (95%)	19 (5%)	19 18
4	D	277/283 (98%)	275 (99%)	2 (1%)	81 87
4	d	278/283 (98%)	270 (97%)	8 (3%)	37 41
5	E	72/73 (99%)	69 (96%)	3 (4%)	25 26
5	e	71/73 (97%)	67 (94%)	4 (6%)	17 16
6	F	28/39 (72%)	28 (100%)	0	100 100
6	f	28/39 (72%)	27 (96%)	1 (4%)	30 32
7	H	54/55 (98%)	50 (93%)	4 (7%)	11 9
7	h	53/55 (96%)	49 (92%)	4 (8%)	11 9
8	I	32/34 (94%)	30 (94%)	2 (6%)	15 13
8	i	32/34 (94%)	31 (97%)	1 (3%)	35 39
9	J	24/28 (86%)	24 (100%)	0	100 100
9	j	24/28 (86%)	23 (96%)	1 (4%)	25 26
10	K	30/37 (81%)	27 (90%)	3 (10%)	6 4
10	k	30/37 (81%)	28 (93%)	2 (7%)	13 11
11	L	35/35 (100%)	35 (100%)	0	100 100
11	l	34/35 (97%)	30 (88%)	4 (12%)	4 2
12	M	28/32 (88%)	27 (96%)	1 (4%)	30 32
12	m	28/32 (88%)	25 (89%)	3 (11%)	5 3
13	O	206/228 (90%)	194 (94%)	12 (6%)	17 15
13	o	207/228 (91%)	197 (95%)	10 (5%)	21 21
14	R	28/33 (85%)	26 (93%)	2 (7%)	12 10
14	r	23/33 (70%)	21 (91%)	2 (9%)	8 6
15	T	26/28 (93%)	25 (96%)	1 (4%)	28 30
15	t	25/28 (89%)	25 (100%)	0	100 100
16	U	84/112 (75%)	82 (98%)	2 (2%)	44 49
16	u	84/112 (75%)	84 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
17	V	117/138 (85%)	115 (98%)	2 (2%)	56 63
17	v	117/138 (85%)	114 (97%)	3 (3%)	41 46
18	X	31/34 (91%)	27 (87%)	4 (13%)	3 2
18	x	31/34 (91%)	30 (97%)	1 (3%)	34 37
19	Y	19/37 (51%)	16 (84%)	3 (16%)	2 1
19	y	22/37 (60%)	21 (96%)	1 (4%)	23 24
20	Z	52/52 (100%)	44 (85%)	8 (15%)	2 1
20	z	51/52 (98%)	45 (88%)	6 (12%)	4 2
All	All	4458/4654 (96%)	4293 (96%)	165 (4%)	28 31

5 of 165 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	d	180	ARG
13	o	23	ASP
4	d	293	LEU
7	h	49	TYR
13	o	164	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 16 such sidechains are listed below:

Mol	Chain	Res	Type
16	u	78	ASN
13	o	200	ASN
1	a	19	ASN
13	o	61	GLN
20	Z	31	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

6 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and

the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
12	FME	m	1	12	8,9,10	1.20	1 (12%)	8,9,11	1.45	1 (12%)
8	FME	I	1	8	8,9,10	1.04	1 (12%)	8,9,11	0.95	0
8	FME	i	1	8	8,9,10	1.12	1 (12%)	8,9,11	1.90	3 (37%)
15	FME	T	1	15	8,9,10	1.12	1 (12%)	8,9,11	1.19	1 (12%)
12	FME	M	1	12	8,9,10	1.14	1 (12%)	8,9,11	0.96	0
15	FME	t	1	15	8,9,10	1.45	1 (12%)	8,9,11	0.98	1 (12%)

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
12	FME	m	1	12	-	0/7/9/11	-
8	FME	I	1	8	-	1/7/9/11	-
8	FME	i	1	8	-	1/7/9/11	-
15	FME	T	1	15	-	4/7/9/11	-
12	FME	M	1	12	-	1/7/9/11	-
15	FME	t	1	15	-	2/7/9/11	-

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	t	1	FME	CA-N	-3.01	1.42	1.46
12	m	1	FME	CA-N	-2.77	1.42	1.46
8	i	1	FME	CA-N	-2.47	1.43	1.46
12	M	1	FME	CA-N	-2.39	1.43	1.46
8	I	1	FME	CA-N	-2.37	1.43	1.46

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	i	1	FME	CA-N-CN	-3.44	117.53	122.82
8	i	1	FME	C-CA-N	2.47	114.27	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	i	1	FME	O1-CN-N	-2.31	119.35	125.32
15	t	1	FME	CB-CA-N	2.29	114.69	110.52
12	m	1	FME	CA-N-CN	-2.22	119.40	122.82

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
12	M	1	FME	CB-CA-N-CN
15	T	1	FME	C-CA-CB-CG
15	T	1	FME	O-C-CA-CB
15	t	1	FME	O-C-CA-CB
15	T	1	FME	CB-CG-SD-CE

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 194 ligands modelled in this entry, 6 are monoatomic - leaving 188 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	$\#\|Z\| > 2$
26	SQD	B	723	-	52,54,54	0.96	2 (3%)	62,65,65	1.67	11 (17%)
23	BCR	h	701	-	41,41,41	1.10	2 (4%)	56,56,56	1.24	5 (8%)
22	CLA	C	503	-	63,73,73	1.57	9 (14%)	74,113,113	1.35	9 (12%)
26	SQD	b	720	-	47,49,54	0.99	2 (4%)	57,60,65	2.11	14 (24%)
22	CLA	C	512	3	63,73,73	1.46	9 (14%)	74,113,113	1.33	8 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
33	LMG	d	408	-	44,44,55	1.14	6 (13%)	52,52,63	1.45	8 (15%)
22	CLA	C	514	-	63,73,73	1.51	7 (11%)	74,113,113	1.65	11 (14%)
23	BCR	B	718	-	41,41,41	1.15	4 (9%)	56,56,56	1.43	7 (12%)
28	STE	C	521	-	11,11,19	0.89	0	11,11,19	1.38	3 (27%)
26	SQD	A	412	-	38,38,54	1.06	3 (7%)	40,40,65	1.12	3 (7%)
28	STE	H	104	-	17,17,19	0.53	0	16,16,19	0.58	0
22	CLA	b	709	-	63,73,73	1.37	7 (11%)	74,113,113	1.51	8 (10%)
22	CLA	A	404	-	52,62,73	1.66	8 (15%)	60,99,113	1.76	14 (23%)
26	SQD	f	101	-	39,41,54	1.14	5 (12%)	49,52,65	1.71	12 (24%)
23	BCR	k	102	-	41,41,41	1.03	2 (4%)	56,56,56	1.22	5 (8%)
33	LMG	B	721	-	26,26,55	0.77	0	26,26,63	1.33	2 (7%)
29	DGD	c	517	-	63,63,67	1.18	6 (9%)	77,77,81	1.35	10 (12%)
28	STE	T	702	-	14,14,19	0.51	0	13,13,19	0.58	0
33	LMG	b	721	-	51,51,55	0.97	4 (7%)	59,59,63	1.45	7 (11%)
28	STE	t	702	-	13,13,19	0.63	0	13,13,19	1.24	2 (15%)
28	STE	Z	101	-	7,7,19	0.43	0	6,6,19	0.52	0
22	CLA	b	704	-	63,73,73	1.25	6 (9%)	74,113,113	1.79	14 (18%)
27	LHG	A	410	-	48,48,48	0.81	2 (4%)	51,54,54	1.23	4 (7%)
23	BCR	c	515	-	41,41,41	1.13	2 (4%)	56,56,56	1.25	5 (8%)
22	CLA	c	510	-	63,73,73	1.51	7 (11%)	74,113,113	1.77	12 (16%)
35	HEC	v	201	17	32,50,50	2.13	4 (12%)	30,82,82	2.28	7 (23%)
22	CLA	A	403	36	63,73,73	1.37	7 (11%)	74,113,113	1.38	10 (13%)
34	PHO	D	406	-	50,69,69	1.08	6 (12%)	48,99,99	1.36	10 (20%)
27	LHG	d	406	-	48,48,48	0.79	0	51,54,54	1.12	4 (7%)
33	LMG	M	101	-	51,51,55	1.01	3 (5%)	59,59,63	1.42	8 (13%)
34	PHO	D	407	-	50,69,69	1.16	7 (14%)	48,99,99	1.48	8 (16%)
22	CLA	b	706	-	63,73,73	1.61	8 (12%)	74,113,113	1.66	11 (14%)
31	OEY	A	416[B]	36,3,1	0,16,16	-	-	-		
28	STE	A	414	-	4,4,19	0.52	0	3,3,19	0.34	0
33	LMG	D	412	-	31,31,55	1.20	3 (9%)	33,33,63	1.09	2 (6%)
22	CLA	b	716	-	58,68,73	1.54	9 (15%)	68,107,113	1.60	9 (13%)
28	STE	x	101	-	19,19,19	0.80	0	19,19,19	0.75	1 (5%)
23	BCR	D	404	-	41,41,41	1.13	3 (7%)	56,56,56	1.26	7 (12%)
28	STE	C	522	-	15,15,19	0.47	0	14,14,19	0.81	0
23	BCR	b	717	-	41,41,41	1.20	4 (9%)	56,56,56	1.51	11 (19%)
22	CLA	b	703	-	63,73,73	1.47	9 (14%)	74,113,113	1.59	12 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
28	STE	j	101	-	11,11,19	0.81	0	11,11,19	1.52	2 (18%)
22	CLA	c	513	-	63,73,73	1.30	8 (12%)	74,113,113	1.43	9 (12%)
28	STE	b	724	-	15,15,19	0.79	0	15,15,19	0.97	1 (6%)
22	CLA	D	402	36	63,73,73	1.68	8 (12%)	74,113,113	1.26	7 (9%)
22	CLA	b	707	36	63,73,73	1.71	10 (15%)	74,113,113	1.38	11 (14%)
22	CLA	a	404	36	63,73,73	1.55	6 (9%)	74,113,113	1.55	11 (14%)
22	CLA	a	403	-	63,73,73	1.59	7 (11%)	74,113,113	1.62	13 (17%)
22	CLA	c	514	-	63,73,73	1.25	6 (9%)	74,113,113	1.41	9 (12%)
22	CLA	d	401	-	63,73,73	1.29	7 (11%)	74,113,113	1.42	8 (10%)
23	BCR	t	701	-	41,41,41	1.11	3 (7%)	56,56,56	1.41	5 (8%)
28	STE	b	726	-	9,9,19	0.56	0	8,8,19	0.44	0
34	PHO	a	405	-	50,69,69	1.05	3 (6%)	48,99,99	1.28	6 (12%)
35	HEC	e	101	5,6	32,50,50	2.19	4 (12%)	30,82,82	2.61	8 (26%)
22	CLA	D	403	-	63,73,73	1.31	11 (17%)	74,113,113	1.65	12 (16%)
22	CLA	c	507	-	63,73,73	1.38	11 (17%)	74,113,113	1.51	10 (13%)
26	SQD	a	413	-	52,54,54	0.99	6 (11%)	62,65,65	1.84	12 (19%)
28	STE	d	409	-	16,16,19	0.74	0	16,16,19	1.34	2 (12%)
22	CLA	b	701	36	63,73,73	1.54	8 (12%)	74,113,113	1.62	7 (9%)
26	SQD	D	409	-	34,36,54	0.96	2 (5%)	42,45,65	1.95	12 (28%)
25	PL9	d	404	-	55,55,55	1.49	8 (14%)	68,69,69	1.74	14 (20%)
28	STE	m	101	-	11,11,19	0.82	0	11,11,19	1.40	2 (18%)
22	CLA	c	511	-	63,73,73	1.44	7 (11%)	74,113,113	1.59	12 (16%)
28	STE	E	102	-	6,6,19	0.42	0	5,5,19	0.57	0
28	STE	B	725	-	17,17,19	0.75	0	17,17,19	0.85	0
22	CLA	B	706	-	63,73,73	1.61	7 (11%)	74,113,113	1.60	12 (16%)
22	CLA	B	713	-	63,73,73	1.43	9 (14%)	74,113,113	1.52	12 (16%)
22	CLA	C	507	-	63,73,73	1.27	6 (9%)	74,113,113	1.39	10 (13%)
27	LHG	a	414	-	41,41,48	0.80	1 (2%)	44,47,54	1.26	3 (6%)
22	CLA	C	506	-	63,73,73	1.41	5 (7%)	74,113,113	1.33	9 (12%)
27	LHG	l	101	-	48,48,48	0.74	1 (2%)	51,54,54	1.14	5 (9%)
22	CLA	c	509	-	62,72,73	1.46	7 (11%)	72,111,113	1.67	14 (19%)
33	LMG	a	419	-	55,55,55	1.31	7 (12%)	63,63,63	1.33	5 (7%)
22	CLA	H	102	36	63,73,73	1.84	10 (15%)	74,113,113	1.64	13 (17%)
28	STE	H	105	-	7,7,19	0.44	0	6,6,19	0.60	0
33	LMG	C	520	-	48,48,55	1.01	3 (6%)	56,56,63	1.35	8 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
32	BCT	A	417	21	3,3,3	1.06	0	2,3,3	3.87	2 (100%)
23	BCR	B	717	-	41,41,41	1.16	3 (7%)	56,56,56	1.30	5 (8%)
22	CLA	B	714	-	63,73,73	1.36	7 (11%)	74,113,113	1.20	7 (9%)
22	CLA	b	714	-	63,73,73	1.41	7 (11%)	74,113,113	1.42	10 (13%)
28	STE	B	720	-	16,16,19	0.64	0	16,16,19	1.35	2 (12%)
35	HEC	E	103	5,6	32,50,50	2.10	3 (9%)	30,82,82	2.65	9 (30%)
22	CLA	C	505	36	57,67,73	1.33	6 (10%)	66,105,113	1.31	8 (12%)
27	LHG	d	407	-	38,38,48	0.89	3 (7%)	41,44,54	1.11	2 (4%)
22	CLA	C	502	-	63,73,73	1.30	11 (17%)	74,113,113	1.43	10 (13%)
22	CLA	C	504	-	63,73,73	1.80	6 (9%)	74,113,113	1.74	16 (21%)
23	BCR	B	719	-	41,41,41	1.13	3 (7%)	56,56,56	1.50	8 (14%)
30	OEX	a	420[A]	36,3,1	0,15,15	-	-	-		
28	STE	a	416	-	9,9,19	0.61	0	8,8,19	0.32	0
22	CLA	B	707	36	63,73,73	1.68	11 (17%)	74,113,113	1.54	5 (6%)
22	CLA	B	704	-	63,73,73	1.62	7 (11%)	74,113,113	1.84	13 (17%)
22	CLA	b	710	36	63,73,73	1.31	10 (15%)	74,113,113	1.38	11 (14%)
28	STE	A	411	-	15,15,19	0.52	0	14,14,19	0.70	0
29	DGD	h	702	-	63,63,67	1.22	7 (11%)	77,77,81	1.57	17 (22%)
29	DGD	C	517	-	63,63,67	1.09	5 (7%)	77,77,81	1.30	9 (11%)
28	STE	h	703	-	13,13,19	0.43	0	12,12,19	0.72	0
33	LMG	c	522	-	48,48,55	1.22	4 (8%)	56,56,63	1.25	8 (14%)
28	STE	b	727	-	19,19,19	0.51	0	19,19,19	1.21	2 (10%)
28	STE	I	101	-	14,14,19	0.66	0	13,13,19	0.36	0
33	LMG	C	516	-	48,48,55	0.97	4 (8%)	56,56,63	1.36	6 (10%)
22	CLA	C	510	-	63,73,73	1.42	11 (17%)	74,113,113	1.52	11 (14%)
22	CLA	a	401	36	63,73,73	1.71	6 (9%)	74,113,113	1.68	12 (16%)
25	PL9	a	411	-	55,55,55	0.88	1 (1%)	68,69,69	1.62	10 (14%)
23	BCR	Y	101	-	41,41,41	1.01	2 (4%)	56,56,56	1.17	4 (7%)
23	BCR	A	405	-	41,41,41	1.14	3 (7%)	56,56,56	1.40	8 (14%)
28	STE	E	101	-	11,11,19	0.95	0	11,11,19	0.84	0
32	BCT	a	410	21	3,3,3	1.16	0	2,3,3	3.26	2 (100%)
33	LMG	c	520	-	37,37,55	1.22	5 (13%)	45,45,63	1.30	4 (8%)
23	BCR	k	101	-	41,41,41	1.08	3 (7%)	56,56,56	1.12	3 (5%)
22	CLA	c	506	-	63,73,73	1.26	6 (9%)	74,113,113	1.36	10 (13%)
29	DGD	C	519	-	63,63,67	0.96	5 (7%)	77,77,81	1.42	12 (15%)
23	BCR	b	718	-	41,41,41	1.23	3 (7%)	56,56,56	1.26	6 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
27	LHG	D	411	-	46,46,48	1.24	5 (10%)	49,52,54	1.26	5 (10%)
23	BCR	C	501	-	41,41,41	1.08	3 (7%)	56,56,56	1.17	3 (5%)
28	STE	b	722	-	19,19,19	0.64	0	19,19,19	0.89	0
22	CLA	C	509	-	63,73,73	1.65	6 (9%)	74,113,113	1.56	7 (9%)
23	BCR	a	407	-	41,41,41	1.10	4 (9%)	56,56,56	1.44	13 (23%)
22	CLA	c	502	-	63,73,73	1.26	8 (12%)	74,113,113	1.53	8 (10%)
23	BCR	b	719	-	41,41,41	1.10	2 (4%)	56,56,56	1.41	8 (14%)
28	STE	X	101	-	19,19,19	0.55	0	19,19,19	1.28	1 (5%)
22	CLA	c	504	-	63,73,73	1.54	9 (14%)	74,113,113	1.63	8 (10%)
22	CLA	C	508	36	63,73,73	1.47	7 (11%)	74,113,113	1.64	10 (13%)
28	STE	l	102	-	17,17,19	0.49	0	16,16,19	0.69	0
23	BCR	T	701	-	41,41,41	1.09	4 (9%)	56,56,56	1.36	7 (12%)
27	LHG	L	101	-	48,48,48	0.85	2 (4%)	51,54,54	1.26	4 (7%)
22	CLA	a	406	-	63,73,73	1.58	9 (14%)	74,113,113	1.37	9 (12%)
29	DGD	A	413	-	67,67,67	1.22	9 (13%)	81,81,81	1.54	15 (18%)
23	BCR	C	515	-	41,41,41	1.29	4 (9%)	56,56,56	1.33	7 (12%)
28	STE	c	521	-	19,19,19	0.70	0	19,19,19	1.00	2 (10%)
29	DGD	c	518	-	63,63,67	1.24	9 (14%)	77,77,81	1.43	11 (14%)
26	SQD	A	409	-	50,52,54	1.02	4 (8%)	60,63,65	2.02	16 (26%)
23	BCR	H	101	-	41,41,41	1.07	1 (2%)	56,56,56	1.30	6 (10%)
33	LMG	c	523	-	49,49,55	1.00	2 (4%)	57,57,63	1.31	6 (10%)
34	PHO	d	405	-	50,69,69	1.13	5 (10%)	48,99,99	1.34	6 (12%)
22	CLA	B	702	-	63,73,73	1.31	6 (9%)	74,113,113	1.55	12 (16%)
35	HEC	V	201	17	32,50,50	1.96	3 (9%)	30,82,82	2.94	8 (26%)
22	CLA	B	710	36	63,73,73	1.43	7 (11%)	74,113,113	1.51	8 (10%)
22	CLA	c	503	-	63,73,73	1.30	9 (14%)	74,113,113	1.52	10 (13%)
22	CLA	b	711	-	63,73,73	1.47	6 (9%)	74,113,113	1.62	11 (14%)
22	CLA	b	715	-	63,73,73	1.56	9 (14%)	74,113,113	1.50	11 (14%)
28	STE	a	417	-	11,11,19	0.89	1 (9%)	11,11,19	1.01	0
22	CLA	C	513	-	63,73,73	1.75	10 (15%)	74,113,113	1.51	13 (17%)
23	BCR	c	516	-	41,41,41	1.25	3 (7%)	56,56,56	1.43	9 (16%)
25	PL9	D	405	-	55,55,55	1.41	6 (10%)	68,69,69	1.77	15 (22%)
33	LMG	D	408	-	51,51,55	1.00	4 (7%)	59,59,63	1.27	6 (10%)
33	LMG	b	723	-	55,55,55	1.11	5 (9%)	63,63,63	1.46	11 (17%)
27	LHG	D	410	-	48,48,48	0.95	3 (6%)	51,54,54	1.23	4 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
23	BCR	K	101	-	41,41,41	1.11	2 (4%)	56,56,56	1.45	10 (17%)
22	CLA	b	713	-	63,73,73	1.51	9 (14%)	74,113,113	1.71	14 (18%)
25	PL9	A	408	-	55,55,55	1.11	4 (7%)	68,69,69	1.56	14 (20%)
27	LHG	B	722	-	48,48,48	1.10	3 (6%)	51,54,54	1.37	5 (9%)
22	CLA	c	508	36	63,73,73	1.30	6 (9%)	74,113,113	1.41	13 (17%)
31	OEY	a	421[B]	36,3,1	0,16,16	-	-	-		
28	STE	C	523	-	11,11,19	0.86	0	11,11,19	1.02	1 (9%)
28	STE	M	102	-	14,14,19	0.70	0	14,14,19	1.08	0
22	CLA	B	712	-	63,73,73	1.22	3 (4%)	74,113,113	1.60	12 (16%)
22	CLA	D	401	-	63,73,73	1.60	11 (17%)	74,113,113	1.28	7 (9%)
22	CLA	B	716	-	58,68,73	1.49	8 (13%)	68,107,113	1.72	11 (16%)
22	CLA	B	715	-	63,73,73	1.76	8 (12%)	74,113,113	1.55	11 (14%)
29	DGD	H	103	-	63,63,67	1.35	10 (15%)	77,77,81	1.47	11 (14%)
22	CLA	B	708	-	63,73,73	1.46	11 (17%)	74,113,113	1.76	13 (17%)
22	CLA	B	705	-	63,73,73	1.26	7 (11%)	74,113,113	1.44	13 (17%)
22	CLA	b	705	-	63,73,73	1.55	6 (9%)	74,113,113	1.56	10 (13%)
28	STE	M	103	-	9,9,19	0.50	0	8,8,19	0.65	0
28	STE	B	701	-	11,11,19	0.99	0	11,11,19	1.03	1 (9%)
28	STE	b	725	-	19,19,19	0.79	0	19,19,19	0.97	1 (5%)
22	CLA	B	709	-	63,73,73	1.34	10 (15%)	74,113,113	1.25	8 (10%)
22	CLA	b	712	-	63,73,73	1.36	9 (14%)	74,113,113	1.50	9 (12%)
22	CLA	B	711	-	63,73,73	1.39	7 (11%)	74,113,113	1.45	10 (13%)
22	CLA	A	402	-	63,73,73	1.64	7 (11%)	74,113,113	1.41	9 (12%)
30	OEX	A	415[A]	36,3,1	0,15,15	-	-	-		
27	LHG	a	412	-	48,48,48	0.88	1 (2%)	51,54,54	1.39	6 (11%)
22	CLA	C	511	-	63,73,73	1.44	7 (11%)	74,113,113	1.38	7 (9%)
22	CLA	b	708	-	63,73,73	1.50	8 (12%)	74,113,113	1.51	12 (16%)
28	STE	c	501	-	11,11,19	0.78	0	11,11,19	1.10	1 (9%)
26	SQD	a	415	-	35,35,54	1.13	2 (5%)	37,37,65	1.35	4 (10%)
29	DGD	c	519	-	63,63,67	1.29	9 (14%)	77,77,81	1.40	13 (16%)
28	STE	a	418	-	14,14,19	0.47	0	13,13,19	0.71	0
23	BCR	d	403	-	41,41,41	1.09	2 (4%)	56,56,56	1.32	8 (14%)
22	CLA	d	402	-	63,73,73	1.33	8 (12%)	74,113,113	1.31	8 (10%)
22	CLA	b	702	-	63,73,73	1.32	8 (12%)	74,113,113	1.62	13 (17%)
29	DGD	C	518	-	63,63,67	1.36	6 (9%)	77,77,81	1.47	12 (15%)
28	STE	J	101	-	11,11,19	0.61	0	11,11,19	1.52	2 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	CLA	B	703	-	63,73,73	1.53	9 (14%)	74,113,113	1.32	8 (10%)
22	CLA	c	512	3	63,73,73	1.75	7 (11%)	74,113,113	1.61	7 (9%)
28	STE	B	724	-	11,11,19	0.73	0	11,11,19	1.20	1 (9%)
22	CLA	c	505	36	58,68,73	1.40	8 (13%)	68,107,113	1.56	7 (10%)
28	STE	B	726	-	15,15,19	0.50	0	14,14,19	0.66	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
26	SQD	B	723	-	-	28/49/69/69	0/1/1/1
23	BCR	h	701	-	-	7/29/63/63	0/2/2/2
22	CLA	C	503	-	-	8/37/115/115	-
26	SQD	b	720	-	-	21/44/64/69	0/1/1/1
22	CLA	C	512	3	1/1/20/20	6/37/115/115	-
33	LMG	d	408	-	-	12/39/59/70	0/1/1/1
22	CLA	C	514	-	1/1/20/20	15/37/115/115	-
23	BCR	B	718	-	-	7/29/63/63	0/2/2/2
28	STE	C	521	-	-	2/9/9/17	-
26	SQD	A	412	-	-	15/39/39/69	-
28	STE	H	104	-	-	6/15/15/17	-
22	CLA	b	709	-	1/1/20/20	9/37/115/115	-
22	CLA	A	404	-	1/1/17/20	4/24/102/115	-
26	SQD	f	101	-	-	14/36/56/69	0/1/1/1
23	BCR	k	102	-	-	3/29/63/63	0/2/2/2
33	LMG	B	721	-	-	12/22/22/70	-
29	DGD	c	517	-	-	22/51/91/95	0/2/2/2
28	STE	T	702	-	-	8/12/12/17	-
33	LMG	b	721	-	-	15/46/66/70	0/1/1/1
28	STE	t	702	-	-	4/11/11/17	-
28	STE	Z	101	-	-	3/5/5/17	-
22	CLA	b	704	-	1/1/20/20	7/37/115/115	-
27	LHG	A	410	-	-	28/53/53/53	-
23	BCR	c	515	-	-	11/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	c	510	-	1/1/20/20	10/37/115/115	-
35	HEC	v	201	17	-	2/10/54/54	-
22	CLA	A	403	36	-	10/37/115/115	-
34	PHO	D	406	-	-	4/37/103/103	0/5/6/6
27	LHG	d	406	-	-	14/53/53/53	-
33	LMG	M	101	-	-	24/46/66/70	0/1/1/1
34	PHO	D	407	-	-	2/37/103/103	0/5/6/6
22	CLA	b	706	-	1/1/20/20	8/37/115/115	-
28	STE	A	414	-	-	1/2/2/17	-
33	LMG	D	412	-	-	14/33/33/70	-
22	CLA	b	716	-	1/1/19/20	11/31/109/115	-
28	STE	x	101	-	-	11/17/17/17	-
23	BCR	D	404	-	-	10/29/63/63	0/2/2/2
28	STE	C	522	-	-	3/13/13/17	-
23	BCR	b	717	-	-	8/29/63/63	0/2/2/2
22	CLA	b	703	-	1/1/20/20	8/37/115/115	-
28	STE	j	101	-	-	2/9/9/17	-
22	CLA	c	513	-	1/1/20/20	19/37/115/115	-
28	STE	b	724	-	-	12/13/13/17	-
22	CLA	D	402	36	1/1/20/20	5/37/115/115	-
22	CLA	b	707	36	1/1/20/20	15/37/115/115	-
22	CLA	a	404	36	-	1/37/115/115	-
22	CLA	a	403	-	-	7/37/115/115	-
22	CLA	c	514	-	1/1/20/20	7/37/115/115	-
22	CLA	d	401	-	-	8/37/115/115	-
23	BCR	t	701	-	-	9/29/63/63	0/2/2/2
28	STE	b	726	-	-	4/7/7/17	-
34	PHO	a	405	-	-	5/37/103/103	0/5/6/6
35	HEC	e	101	5,6	-	2/10/54/54	-
22	CLA	c	507	-	1/1/20/20	15/37/115/115	-
22	CLA	D	403	-	-	7/37/115/115	-
26	SQD	a	413	-	-	22/49/69/69	0/1/1/1
28	STE	d	409	-	-	6/14/14/17	-
22	CLA	b	701	36	1/1/20/20	9/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	SQD	D	409	-	-	6/28/48/69	0/1/1/1
25	PL9	d	404	-	-	18/53/73/73	0/1/1/1
28	STE	m	101	-	-	2/9/9/17	-
22	CLA	c	511	-	1/1/20/20	9/37/115/115	-
28	STE	E	102	-	-	1/4/4/17	-
28	STE	B	725	-	-	6/15/15/17	-
22	CLA	B	706	-	1/1/20/20	4/37/115/115	-
22	CLA	B	713	-	1/1/20/20	14/37/115/115	-
22	CLA	C	507	-	1/1/20/20	8/37/115/115	-
27	LHG	a	414	-	-	20/46/46/53	-
22	CLA	C	506	-	1/1/20/20	13/37/115/115	-
27	LHG	l	101	-	-	23/53/53/53	-
22	CLA	c	509	-	-	5/36/114/115	-
33	LMG	a	419	-	-	23/50/70/70	0/1/1/1
22	CLA	H	102	36	1/1/20/20	13/37/115/115	-
28	STE	H	105	-	-	3/5/5/17	-
33	LMG	C	520	-	-	20/43/63/70	0/1/1/1
23	BCR	B	717	-	-	8/29/63/63	0/2/2/2
22	CLA	B	714	-	1/1/20/20	10/37/115/115	-
22	CLA	b	714	-	1/1/20/20	13/37/115/115	-
28	STE	B	720	-	-	9/14/14/17	-
35	HEC	E	103	5,6	-	2/10/54/54	-
22	CLA	C	505	36	1/1/18/20	4/30/108/115	-
27	LHG	d	407	-	-	11/43/43/53	-
22	CLA	C	502	-	1/1/20/20	4/37/115/115	-
22	CLA	C	504	-	1/1/20/20	5/37/115/115	-
23	BCR	B	719	-	-	1/29/63/63	0/2/2/2
28	STE	a	416	-	-	4/7/7/17	-
22	CLA	B	707	36	1/1/20/20	5/37/115/115	-
22	CLA	B	704	-	1/1/20/20	10/37/115/115	-
22	CLA	b	710	36	1/1/20/20	4/37/115/115	-
28	STE	A	411	-	-	7/13/13/17	-
29	DGD	h	702	-	-	14/51/91/95	0/2/2/2
29	DGD	C	517	-	-	21/51/91/95	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
28	STE	h	703	-	-	6/11/11/17	-
33	LMG	c	522	-	-	25/43/63/70	0/1/1/1
28	STE	b	727	-	-	9/17/17/17	-
28	STE	I	101	-	-	4/12/12/17	-
33	LMG	C	516	-	-	18/43/63/70	0/1/1/1
22	CLA	C	510	-	1/1/20/20	13/37/115/115	-
22	CLA	a	401	36	1/1/20/20	5/37/115/115	-
25	PL9	a	411	-	-	20/53/73/73	0/1/1/1
23	BCR	Y	101	-	-	6/29/63/63	0/2/2/2
23	BCR	A	405	-	-	5/29/63/63	0/2/2/2
28	STE	E	101	-	-	5/9/9/17	-
33	LMG	c	520	-	-	12/31/51/70	0/1/1/1
23	BCR	k	101	-	-	13/29/63/63	0/2/2/2
22	CLA	c	506	-	1/1/20/20	11/37/115/115	-
29	DGD	C	519	-	-	15/51/91/95	0/2/2/2
23	BCR	b	718	-	-	2/29/63/63	0/2/2/2
27	LHG	D	411	-	-	21/51/51/53	-
23	BCR	C	501	-	-	12/29/63/63	0/2/2/2
28	STE	b	722	-	-	10/17/17/17	-
22	CLA	C	509	-	-	5/37/115/115	-
23	BCR	a	407	-	-	3/29/63/63	0/2/2/2
22	CLA	c	502	-	1/1/20/20	3/37/115/115	-
23	BCR	b	719	-	-	5/29/63/63	0/2/2/2
28	STE	X	101	-	-	9/17/17/17	-
22	CLA	c	504	-	1/1/20/20	8/37/115/115	-
22	CLA	C	508	36	1/1/20/20	9/37/115/115	-
28	STE	l	102	-	-	5/15/15/17	-
23	BCR	T	701	-	-	4/29/63/63	0/2/2/2
27	LHG	L	101	-	-	20/53/53/53	-
22	CLA	a	406	-	1/1/20/20	10/37/115/115	-
29	DGD	A	413	-	-	27/55/95/95	0/2/2/2
23	BCR	C	515	-	-	6/29/63/63	0/2/2/2
28	STE	c	521	-	-	7/17/17/17	-
29	DGD	c	518	-	-	26/51/91/95	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	SQD	A	409	-	-	21/47/67/69	0/1/1/1
23	BCR	H	101	-	-	5/29/63/63	0/2/2/2
33	LMG	c	523	-	-	21/44/64/70	0/1/1/1
34	PHO	d	405	-	-	6/37/103/103	0/5/6/6
22	CLA	B	702	-	1/1/20/20	8/37/115/115	-
35	HEC	V	201	17	-	2/10/54/54	-
22	CLA	B	710	36	1/1/20/20	6/37/115/115	-
22	CLA	c	503	-	1/1/20/20	5/37/115/115	-
22	CLA	b	711	-	1/1/20/20	7/37/115/115	-
22	CLA	b	715	-	1/1/20/20	10/37/115/115	-
28	STE	a	417	-	-	4/9/9/17	-
22	CLA	C	513	-	1/1/20/20	14/37/115/115	-
23	BCR	c	516	-	-	3/29/63/63	0/2/2/2
25	PL9	D	405	-	-	13/53/73/73	0/1/1/1
33	LMG	D	408	-	-	13/46/66/70	0/1/1/1
33	LMG	b	723	-	-	21/50/70/70	0/1/1/1
27	LHG	D	410	-	-	17/53/53/53	-
23	BCR	K	101	-	-	7/29/63/63	0/2/2/2
22	CLA	b	713	-	1/1/20/20	5/37/115/115	-
25	PL9	A	408	-	-	22/53/73/73	0/1/1/1
27	LHG	B	722	-	-	17/53/53/53	-
22	CLA	c	508	36	1/1/20/20	3/37/115/115	-
28	STE	C	523	-	-	6/9/9/17	-
28	STE	M	102	-	-	5/12/12/17	-
22	CLA	B	712	-	1/1/20/20	8/37/115/115	-
22	CLA	D	401	-	1/1/20/20	5/37/115/115	-
22	CLA	B	716	-	1/1/19/20	10/31/109/115	-
22	CLA	B	715	-	1/1/20/20	5/37/115/115	-
29	DGD	H	103	-	-	18/51/91/95	0/2/2/2
22	CLA	B	708	-	1/1/20/20	3/37/115/115	-
22	CLA	B	705	-	1/1/20/20	7/37/115/115	-
22	CLA	b	705	-	1/1/20/20	11/37/115/115	-
28	STE	M	103	-	-	4/7/7/17	-
28	STE	B	701	-	-	4/9/9/17	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
28	STE	b	725	-	-	8/17/17/17	-
22	CLA	B	709	-	-	3/37/115/115	-
22	CLA	b	712	-	1/1/20/20	5/37/115/115	-
22	CLA	B	711	-	-	7/37/115/115	-
22	CLA	A	402	-	1/1/20/20	6/37/115/115	-
27	LHG	a	412	-	-	25/53/53/53	-
22	CLA	C	511	-	1/1/20/20	9/37/115/115	-
22	CLA	b	708	-	1/1/20/20	9/37/115/115	-
28	STE	c	501	-	-	4/9/9/17	-
26	SQD	a	415	-	-	18/37/37/69	-
29	DGD	c	519	-	-	18/51/91/95	0/2/2/2
28	STE	a	418	-	-	4/12/12/17	-
23	BCR	d	403	-	-	10/29/63/63	0/2/2/2
22	CLA	d	402	-	-	7/37/115/115	-
22	CLA	b	702	-	-	8/37/115/115	-
29	DGD	C	518	-	-	14/51/91/95	0/2/2/2
28	STE	J	101	-	-	4/9/9/17	-
22	CLA	B	703	-	1/1/20/20	11/37/115/115	-
22	CLA	c	512	3	1/1/20/20	12/37/115/115	-
28	STE	B	724	-	-	4/9/9/17	-
22	CLA	c	505	36	1/1/19/20	7/31/109/115	-
28	STE	B	726	-	-	5/13/13/17	-

The worst 5 of 830 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	c	512	CLA	CHB-C4A	8.47	1.40	1.33
22	a	401	CLA	CHB-C4A	8.41	1.40	1.33
22	D	402	CLA	CHB-C4A	8.26	1.40	1.33
22	B	706	CLA	CHB-C4A	8.19	1.40	1.33
22	A	402	CLA	CHB-C4A	8.19	1.40	1.33

The worst 5 of 1332 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	704	CLA	C4A-NA-C1A	9.71	111.11	106.68
35	V	201	HEC	CBB-CAB-C3B	-9.69	104.82	127.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	510	CLA	C4A-NA-C1A	9.37	110.95	106.68
22	b	701	CLA	C4A-NA-C1A	9.34	110.94	106.68
22	c	512	CLA	C4A-NA-C1A	9.27	110.91	106.68

5 of 58 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	A	402	CLA	ND
22	A	404	CLA	ND
22	B	702	CLA	ND
22	B	703	CLA	ND
22	B	704	CLA	ND

5 of 1755 torsion outliers are listed below:

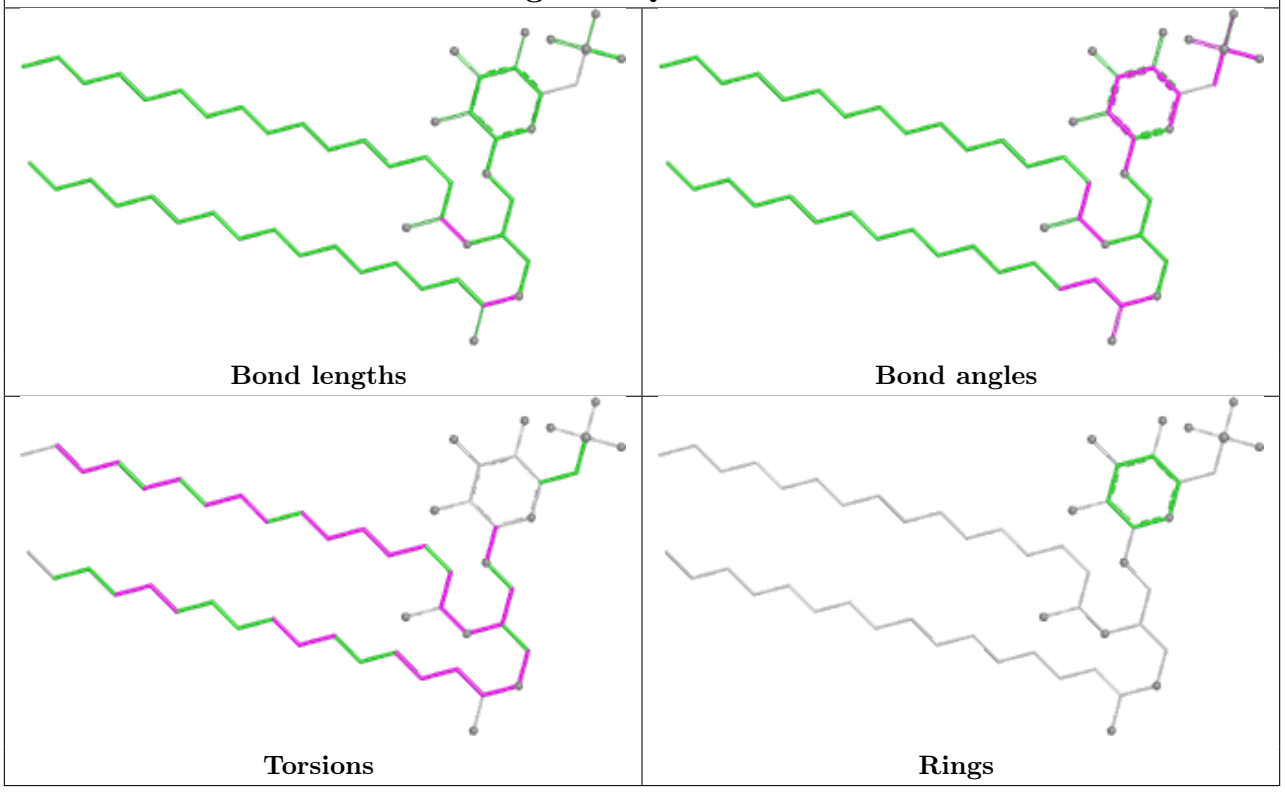
Mol	Chain	Res	Type	Atoms
22	B	705	CLA	C11-C12-C13-C14
22	B	714	CLA	CAD-CBD-CGD-O1D
22	B	714	CLA	CAD-CBD-CGD-O2D
22	B	714	CLA	C4-C3-C5-C6
22	C	508	CLA	CHA-CBD-CGD-O1D

There are no ring outliers.

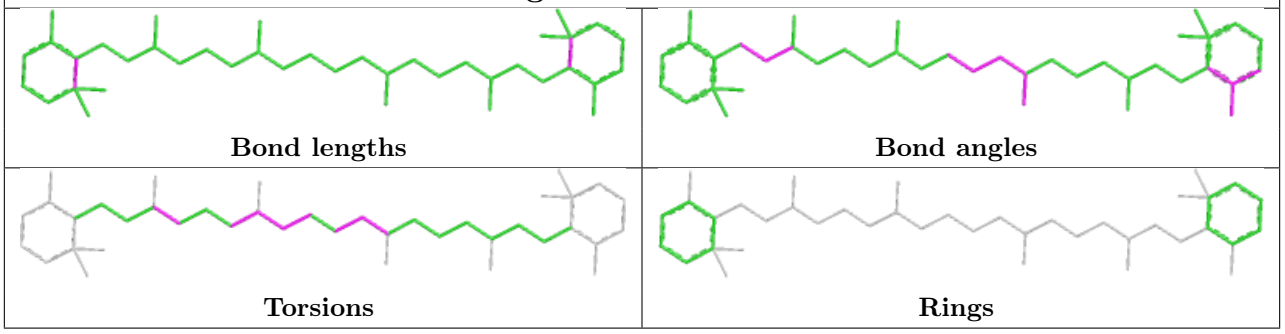
No monomer is involved in short contacts.

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 then 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.

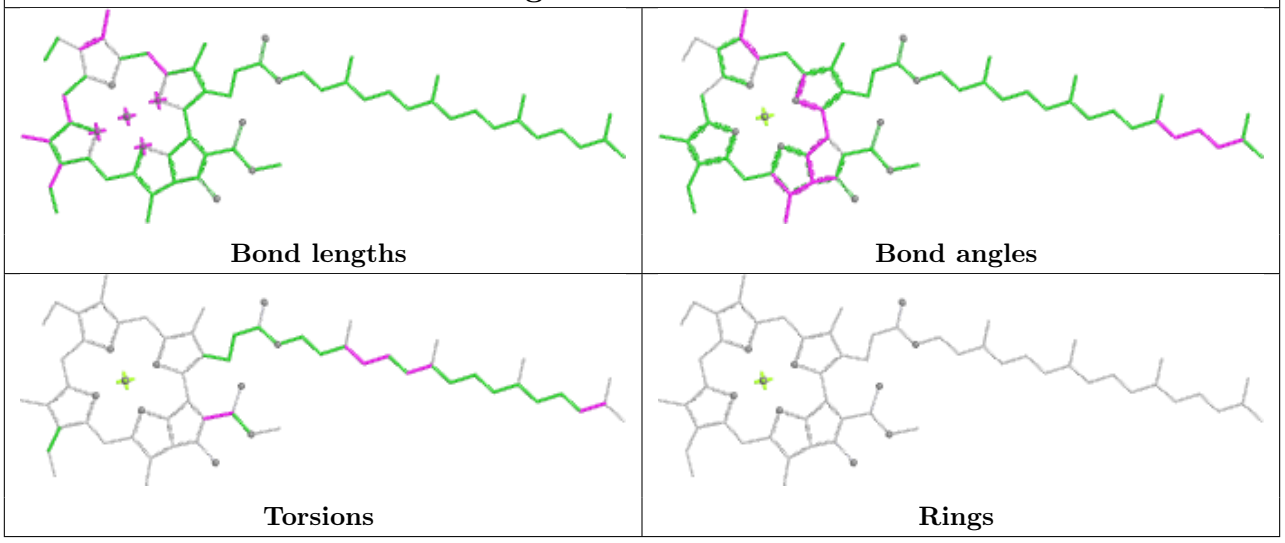
Ligand SQD B 723



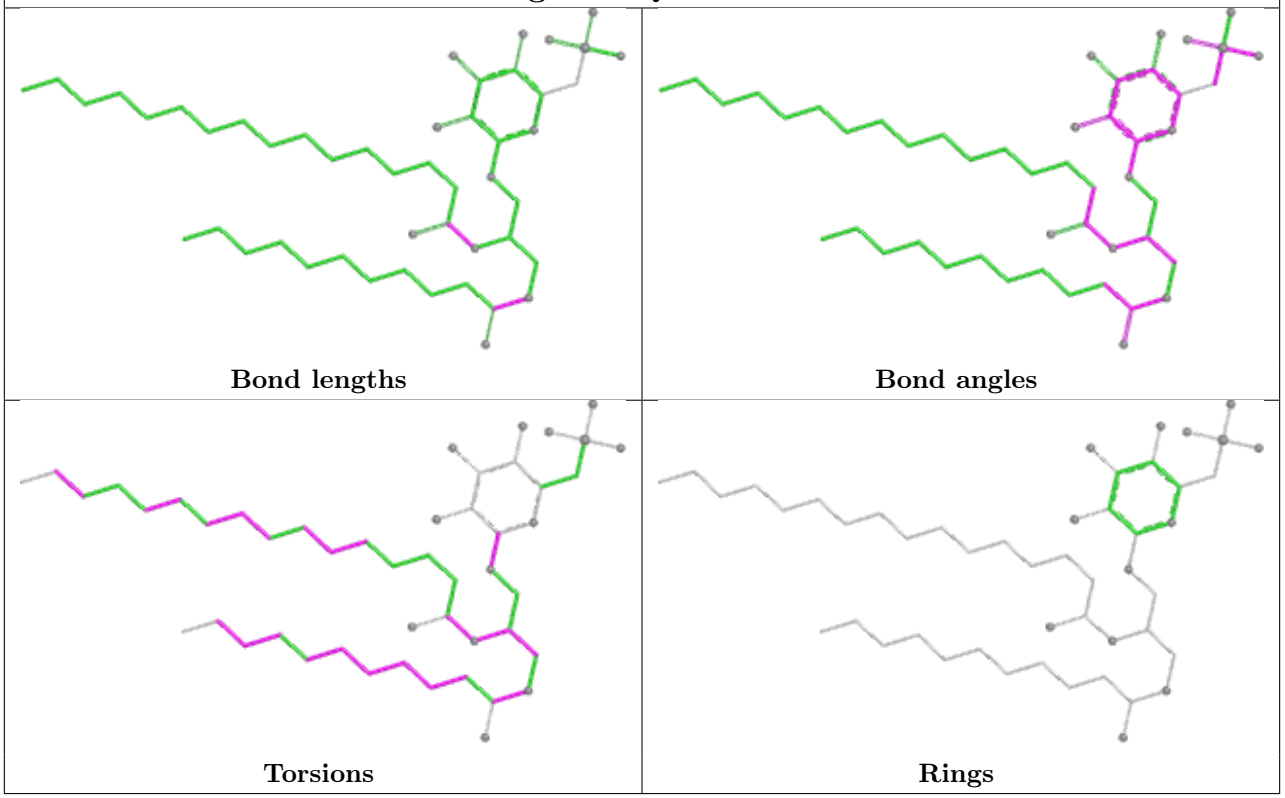
Ligand BCR h 701



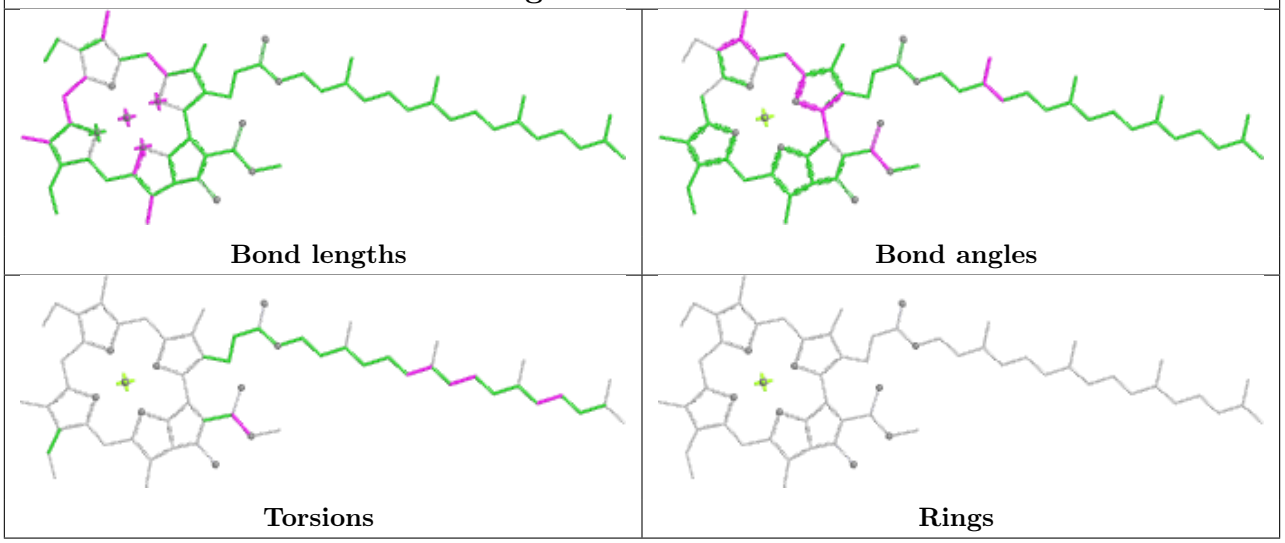
Ligand CLA C 503



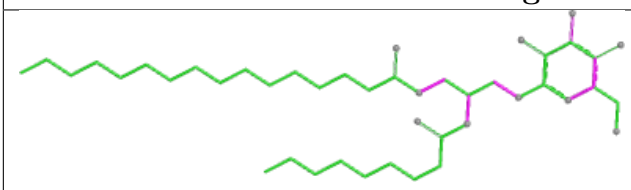
Ligand SQD b 720



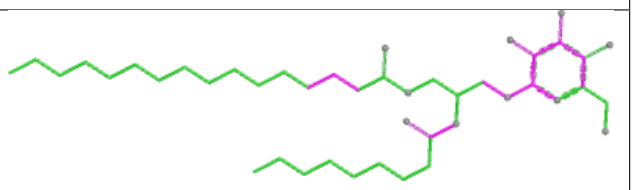
Ligand CLA C 512



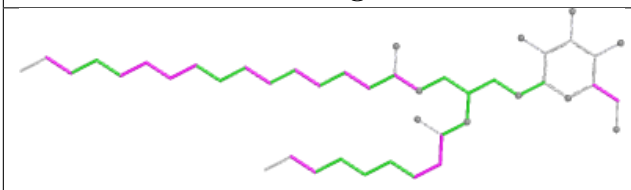
Ligand LMG d 408



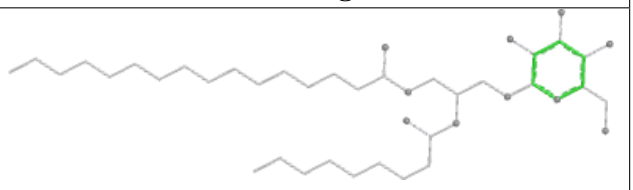
Bond lengths



Bond angles

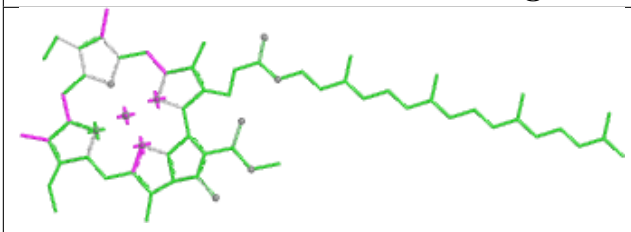


Torsions

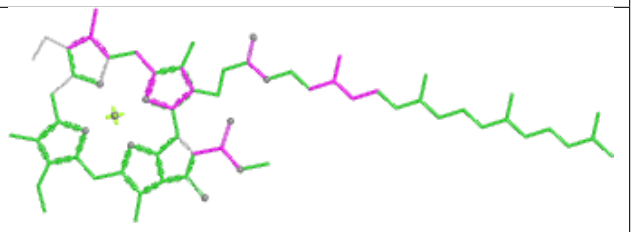


Rings

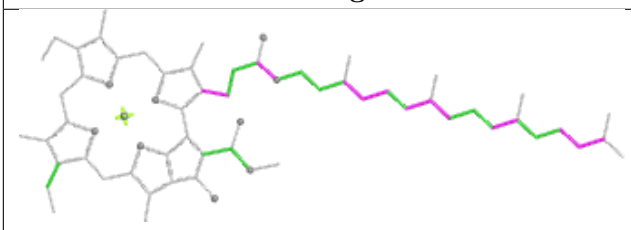
Ligand CLA C 514



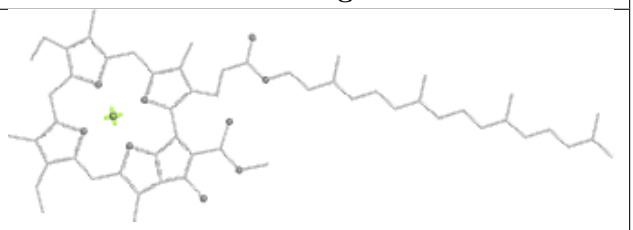
Bond lengths



Bond angles

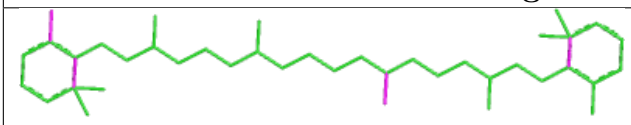


Torsions

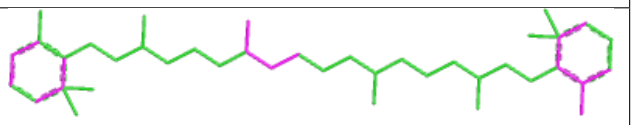


Rings

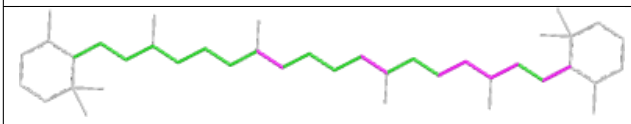
Ligand BCR B 718



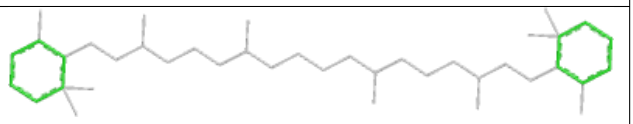
Bond lengths



Bond angles

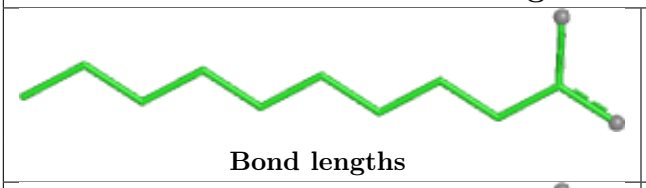


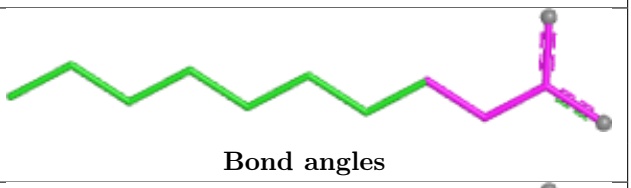
Torsions

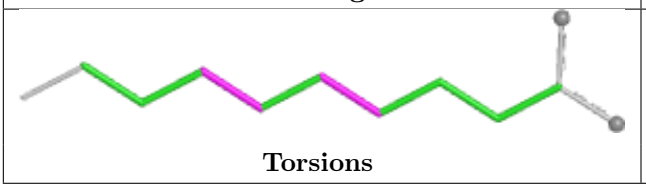


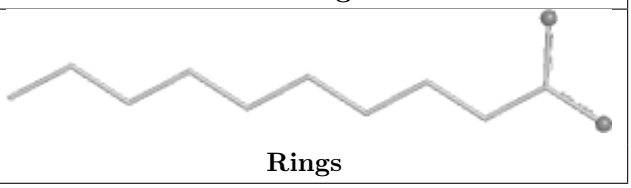
Rings

Ligand STE C 521

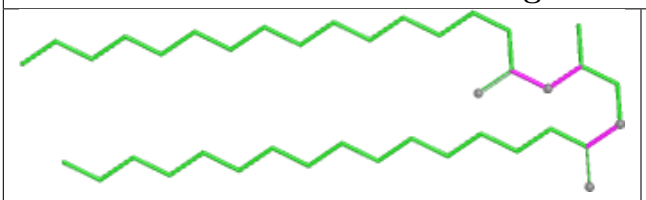

Bond lengths

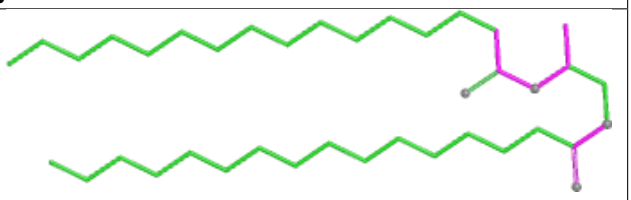

Bond angles

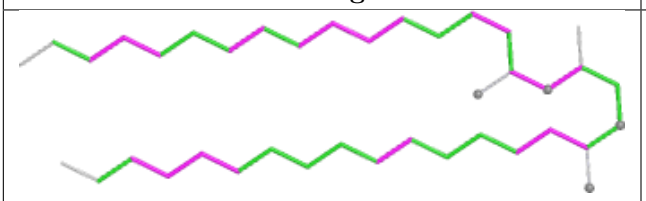

Torsions

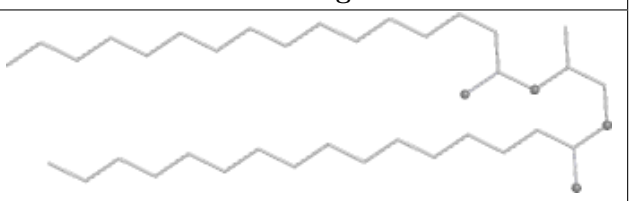

Rings

Ligand SQD A 412


Bond lengths


Bond angles


Torsions

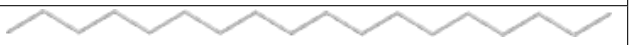

Rings

Ligand STE H 104

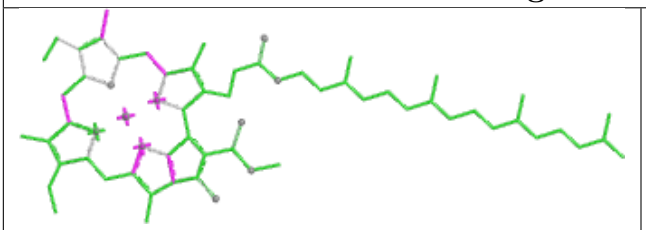

Bond lengths

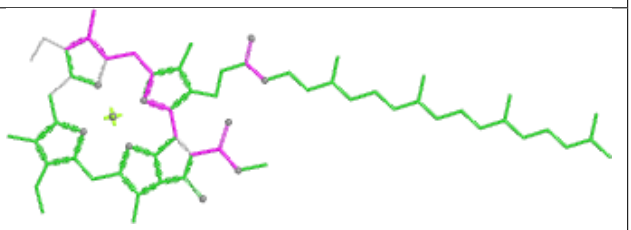

Bond angles

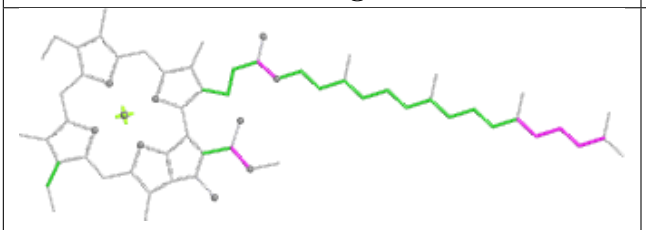

Torsions

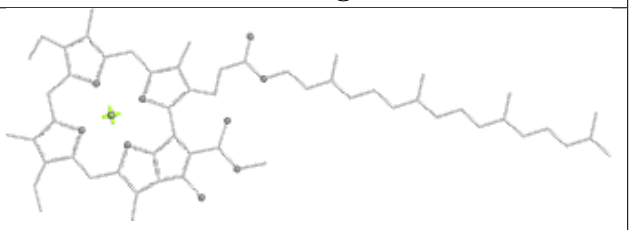

Rings

Ligand CLA b 709

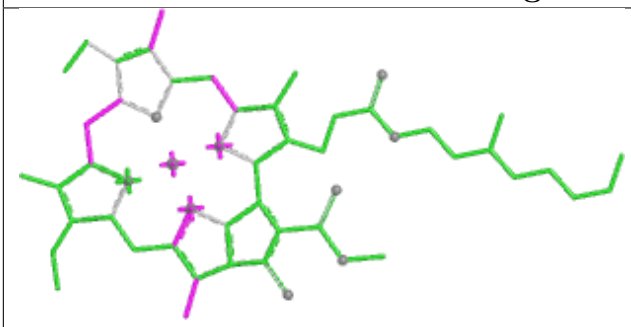

Bond lengths


Bond angles

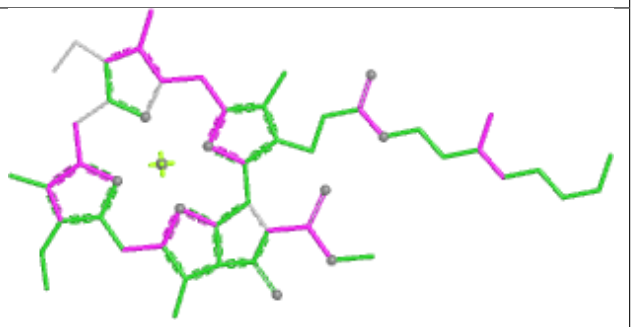

Torsions


Rings

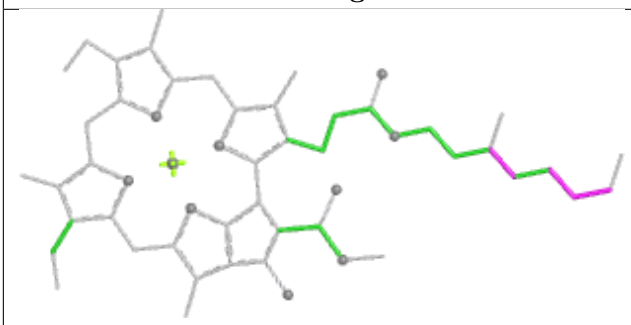
Ligand CLA A 404



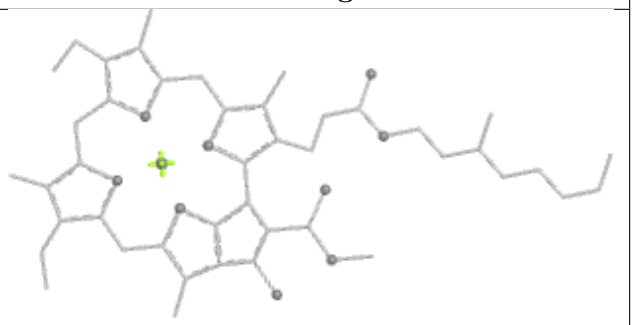
Bond lengths



Bond angles

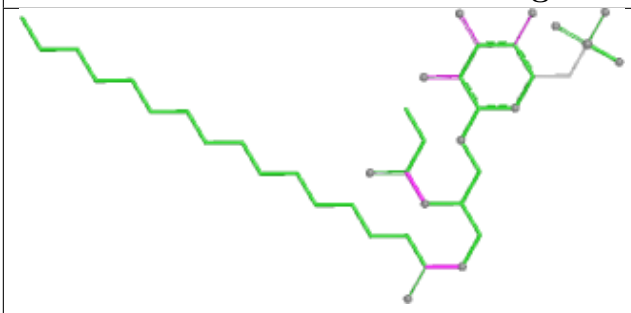


Torsions

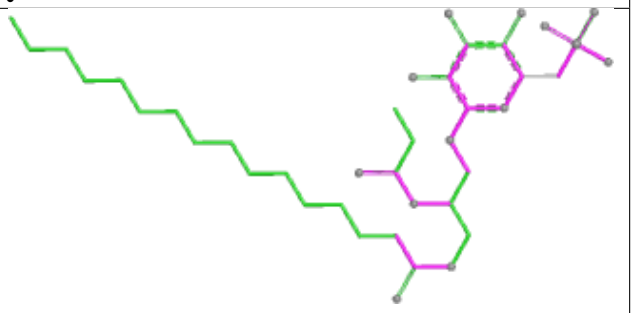


Rings

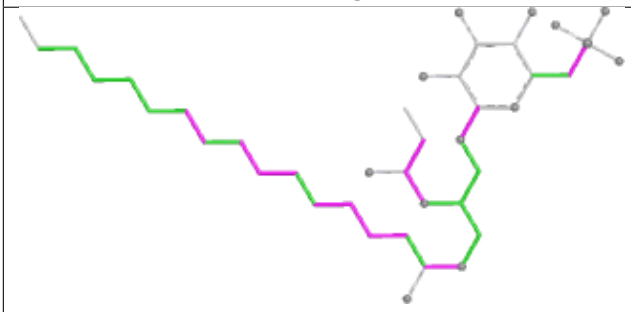
Ligand SQD f 101



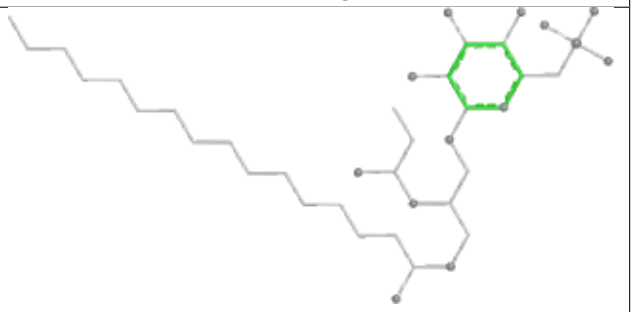
Bond lengths



Bond angles

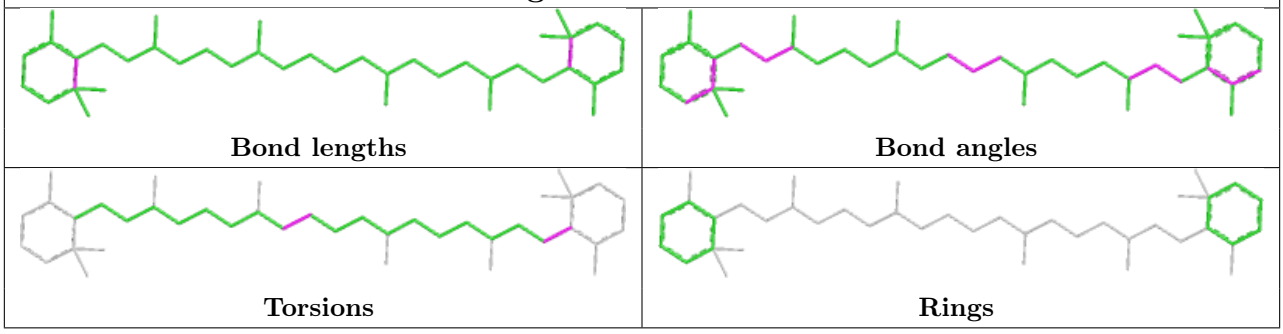


Torsions

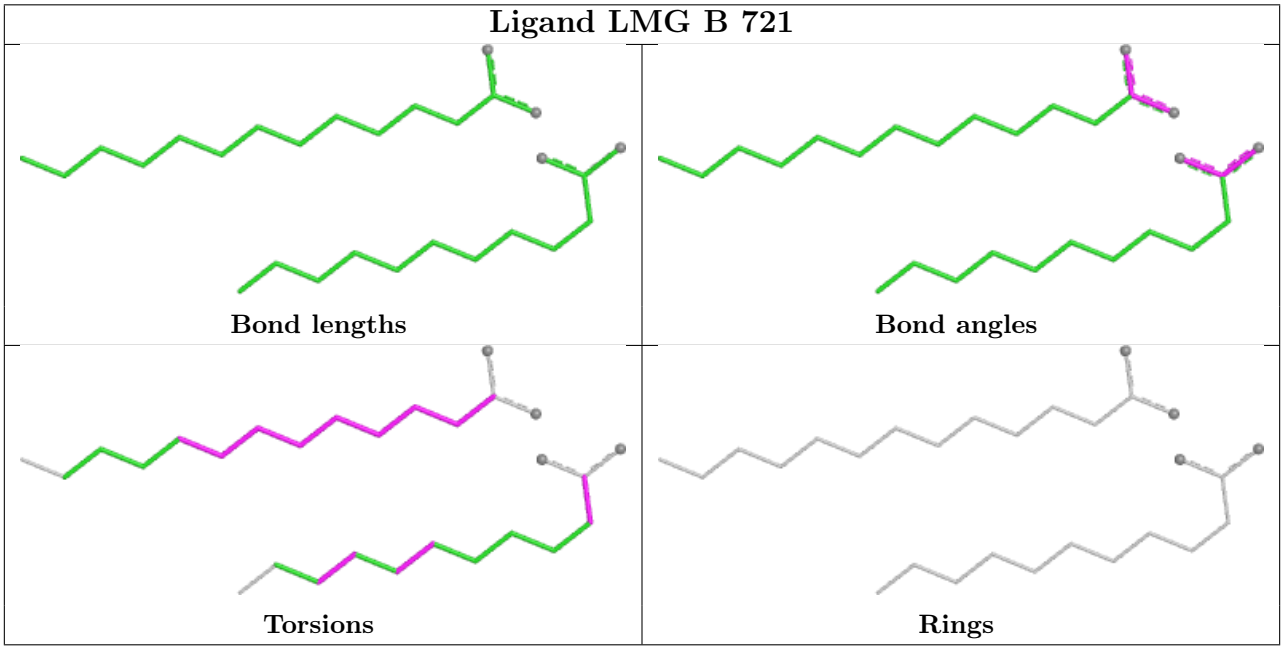


Rings

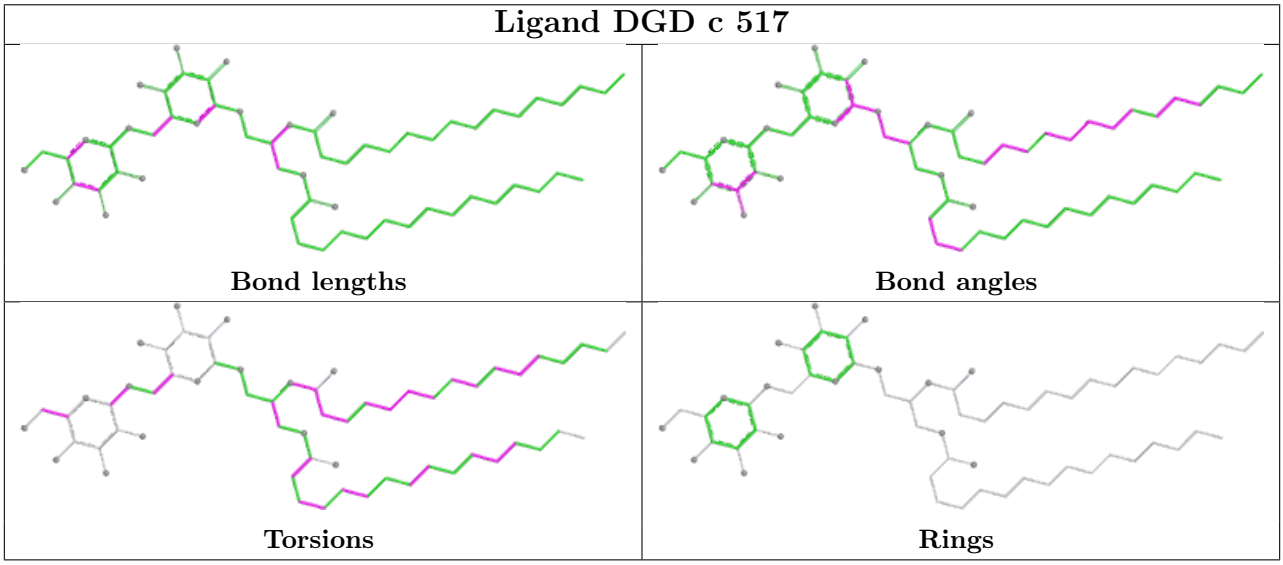
Ligand BCR k 102



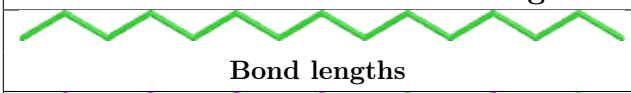
Ligand LMG B 721

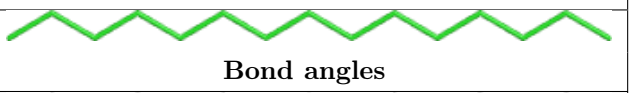


Ligand DGD c 517

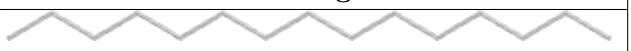


Ligand STE T 702

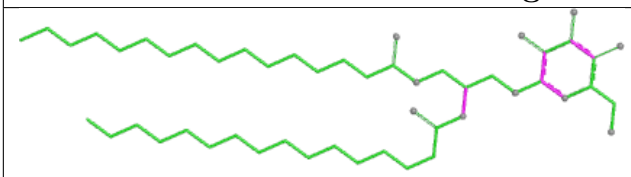

Bond lengths

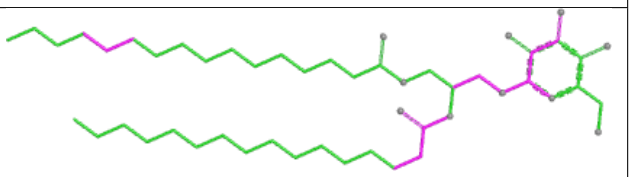

Bond angles

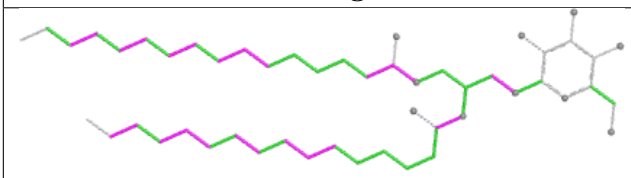

Torsions

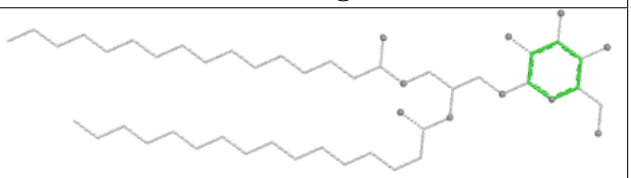

Rings

Ligand LMG b 721

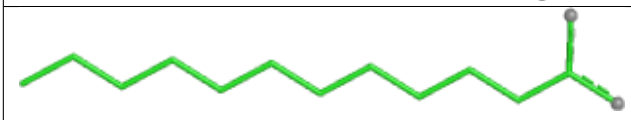

Bond lengths

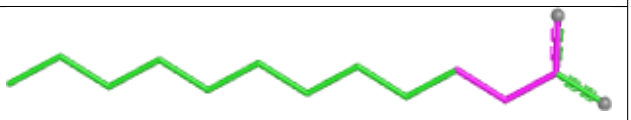

Bond angles

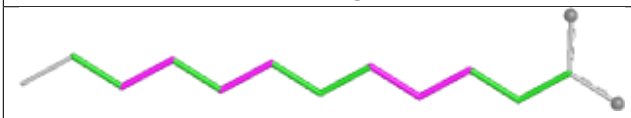

Torsions

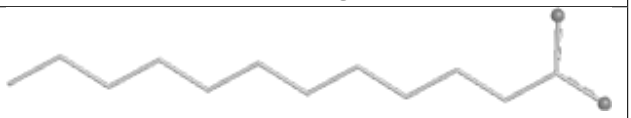

Rings

Ligand STE t 702

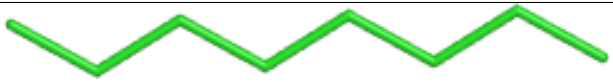

Bond lengths


Bond angles


Torsions


Rings

Ligand STE Z 101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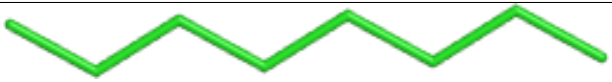
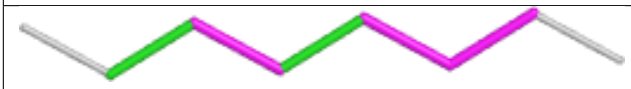
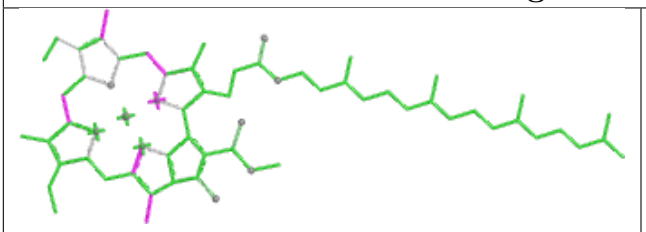

Bond angles

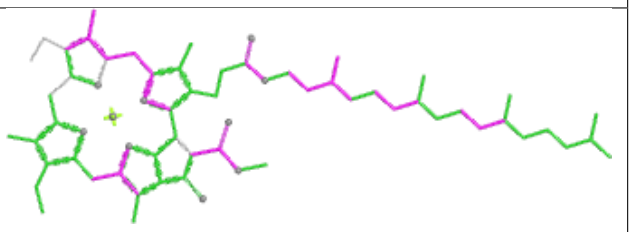

Torsions


Rings

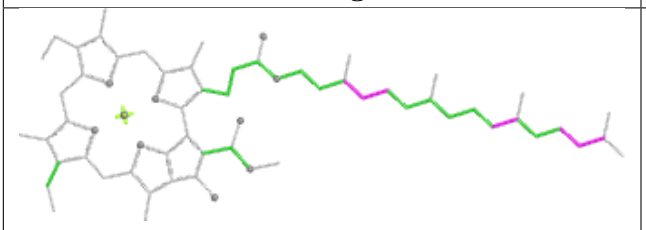
Ligand CLA b 704



Bond lengths



Bond angles



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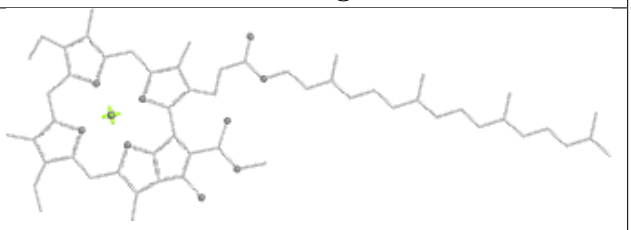
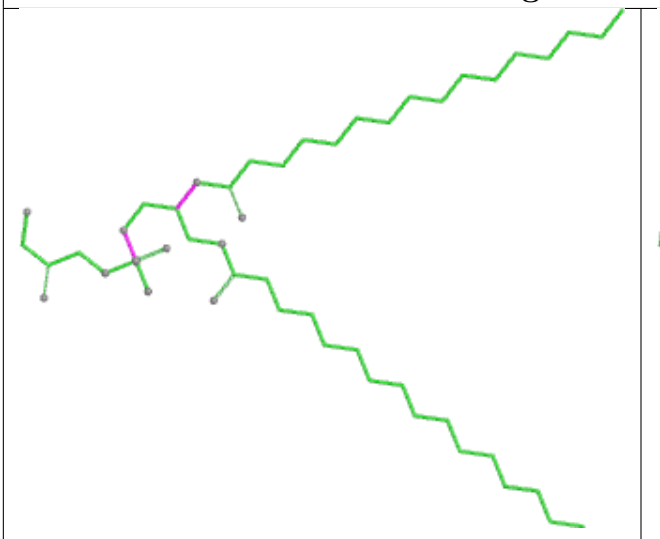


Rings

Ligand LHG A 410



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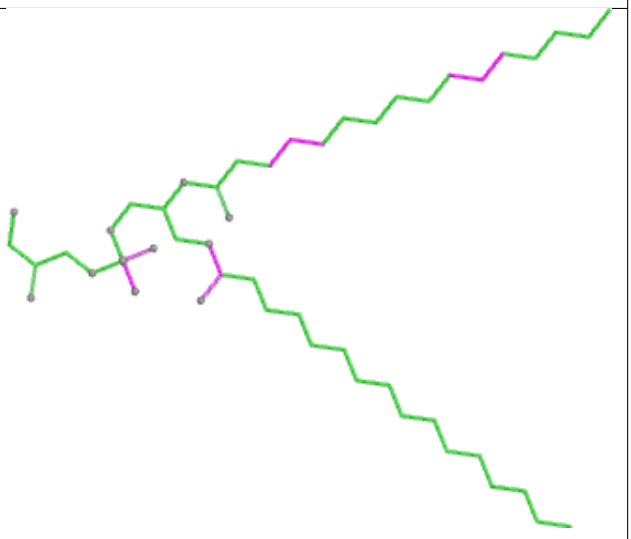
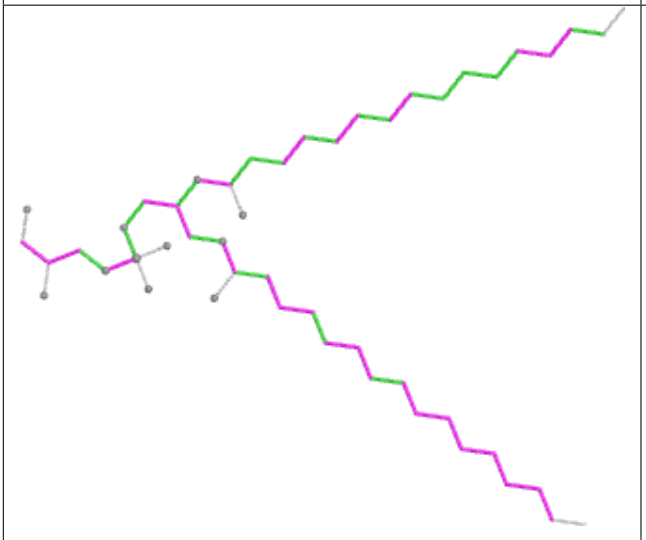


Bond angles



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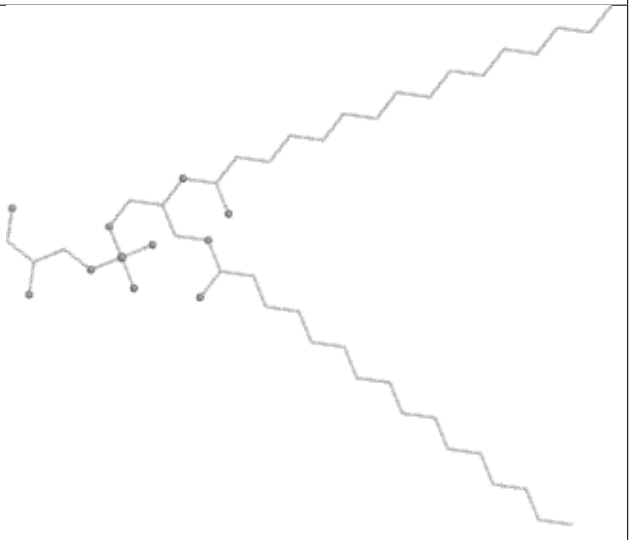
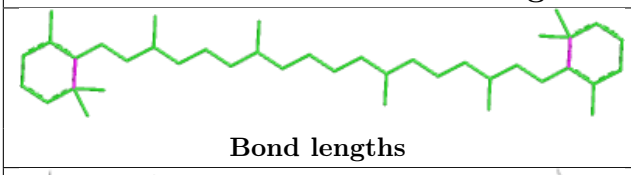


Rings

Ligand BCR c 515



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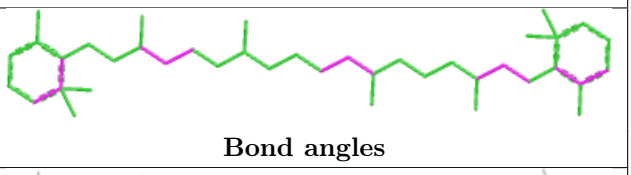
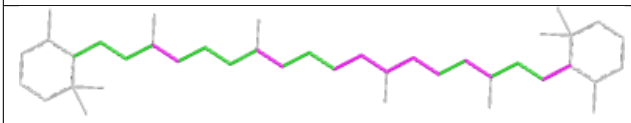


Bond angles



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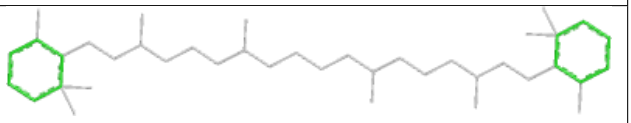
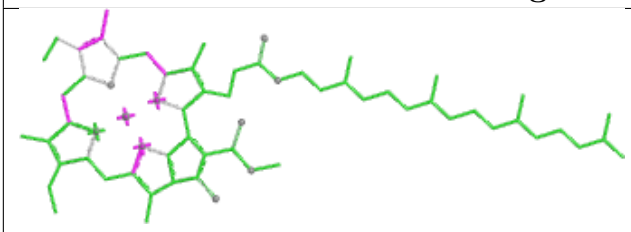


Rings

Ligand CLA c 510



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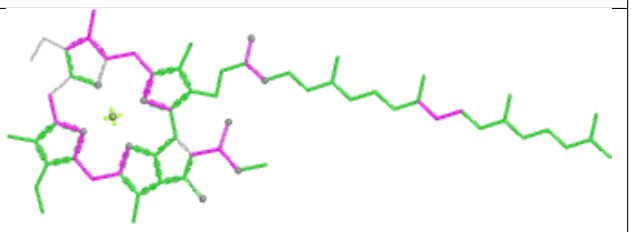
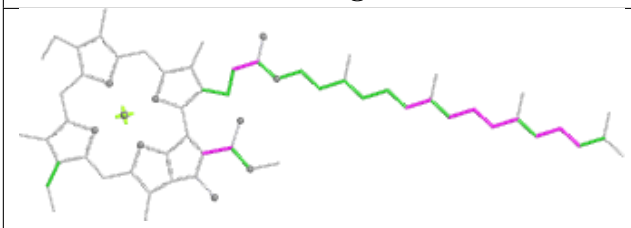


Bond angles



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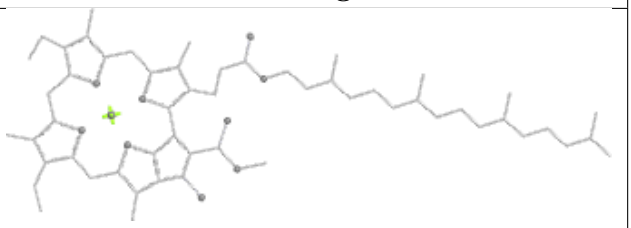
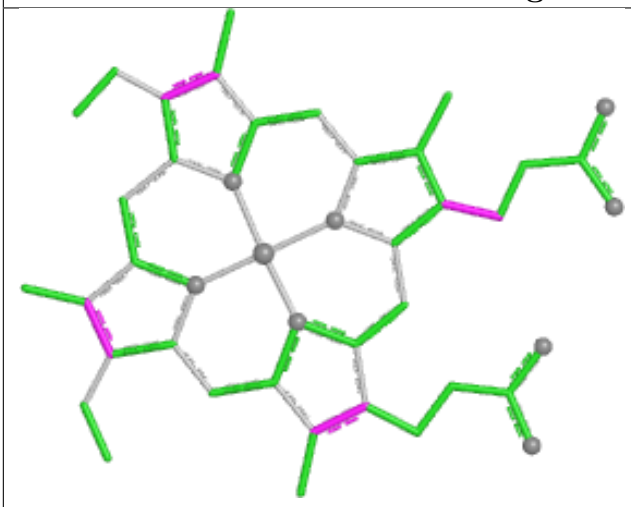


Rings

Ligand HEC v 201



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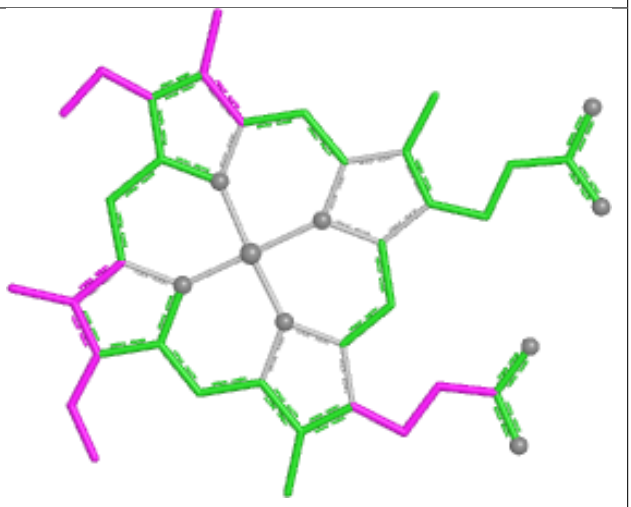
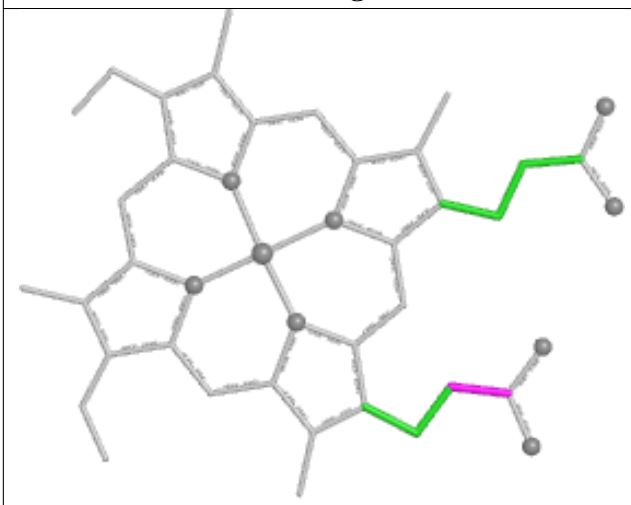
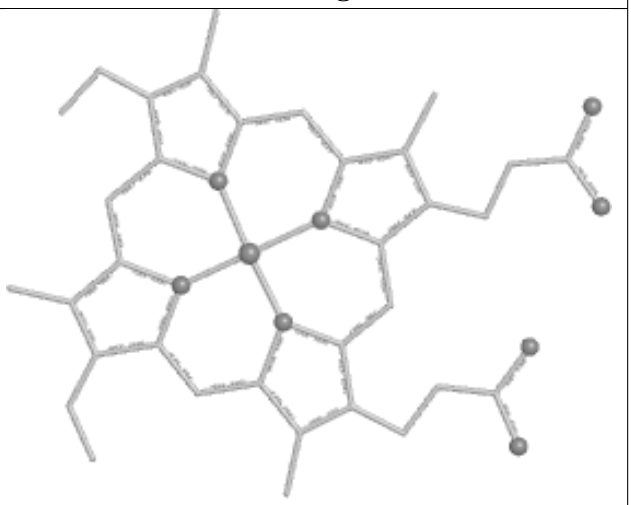


Bond angles

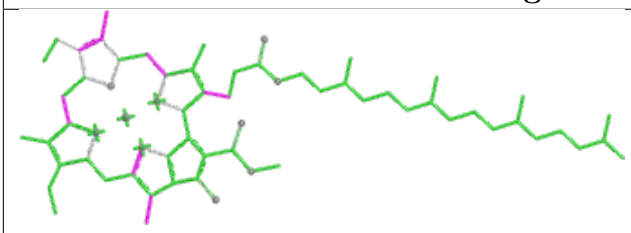


Torsions



Rings

Ligand CLA A 403



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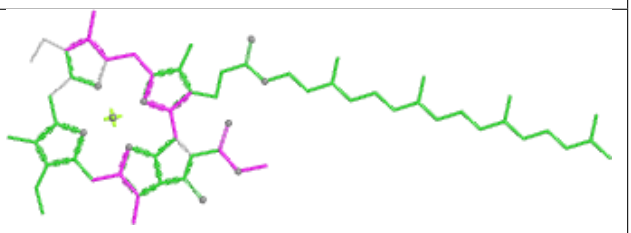
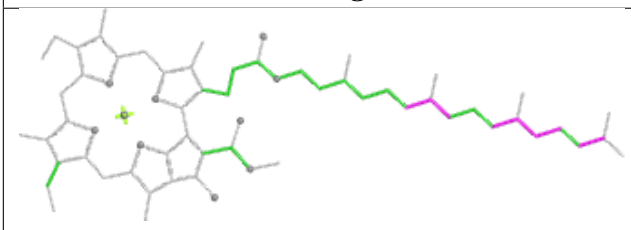
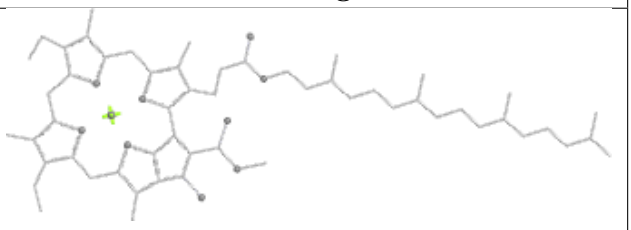


Bond angles

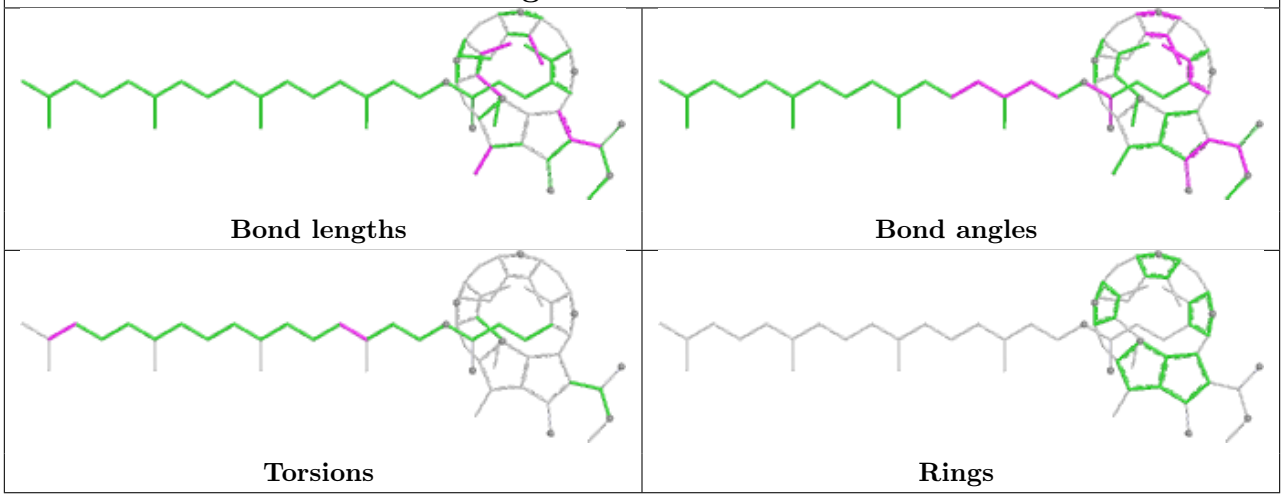


Torsions

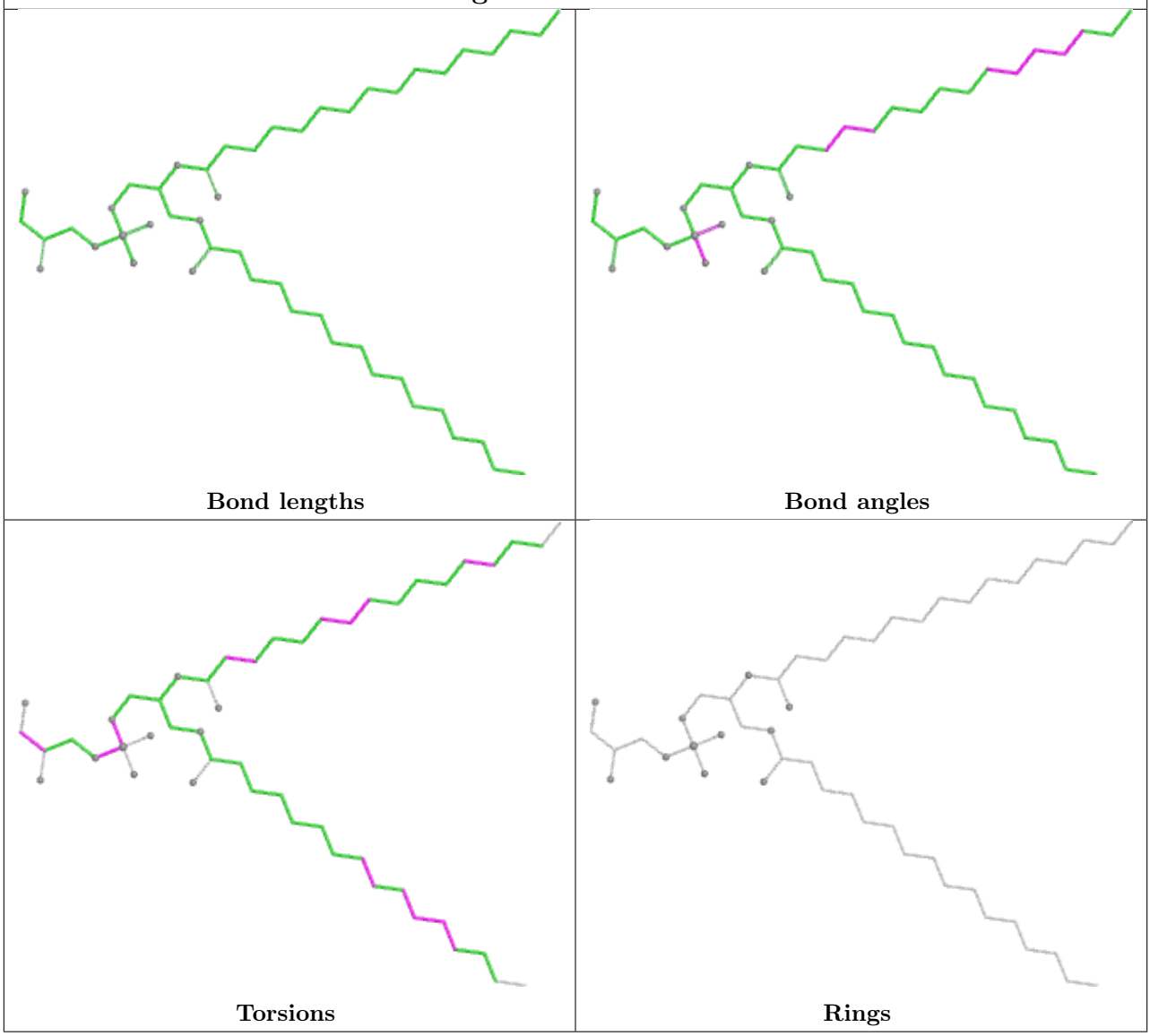


Rings

Ligand PHO D 406



Ligand LHG d 406



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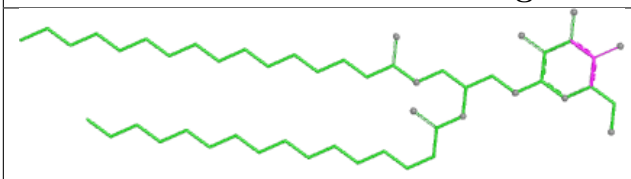

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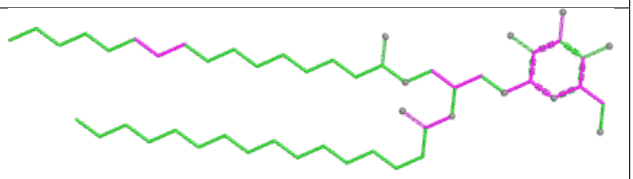
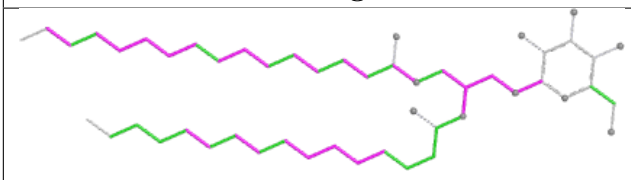


Bond angles



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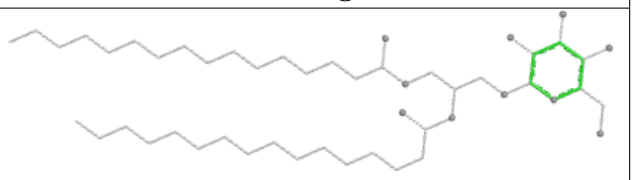

Rings

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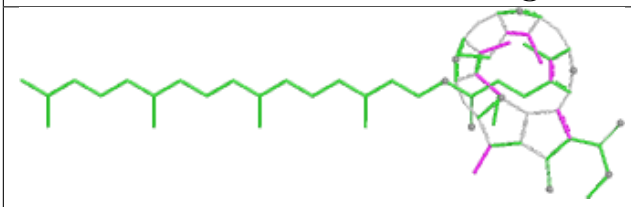

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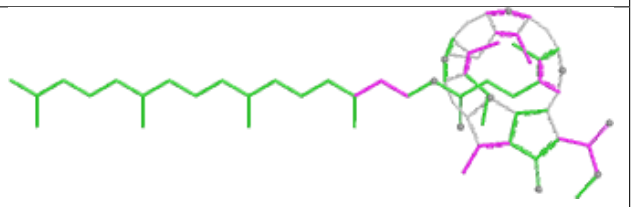
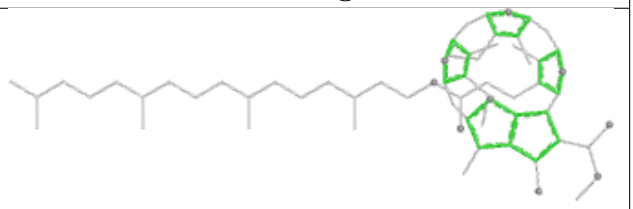


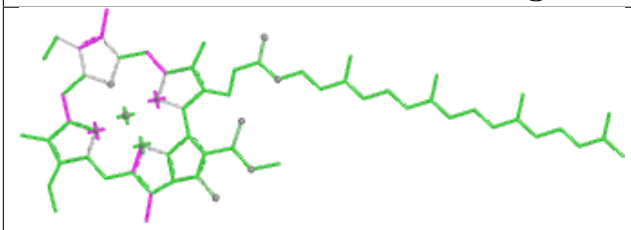
Bond angles

Torsions



Rings

Ligand CLA b 706



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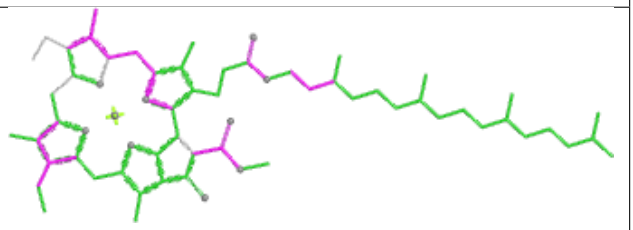
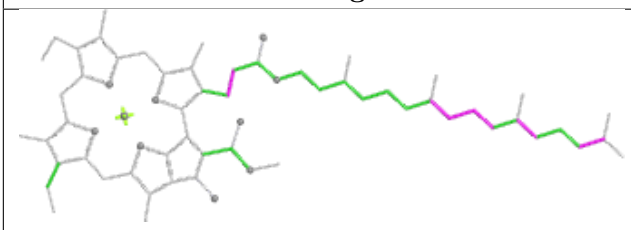
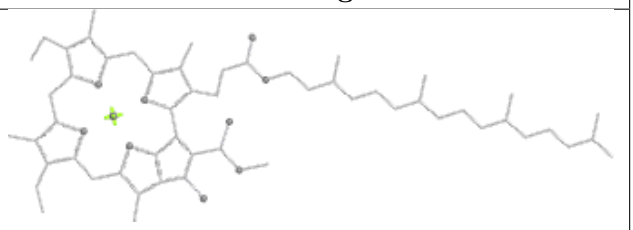


Bond angles

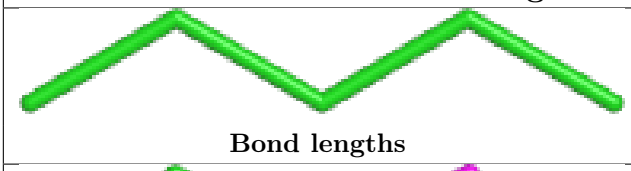


Torsions

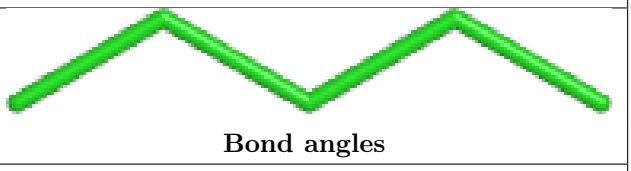


Rings

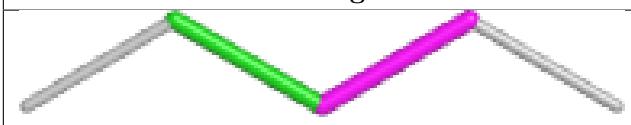
Ligand STE A 414



Bond lengths



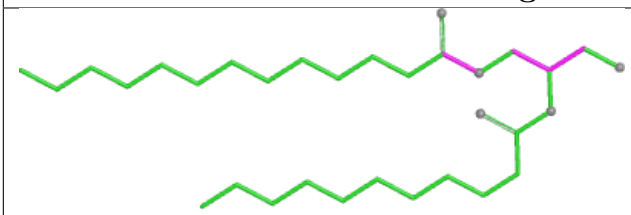
Bond angles



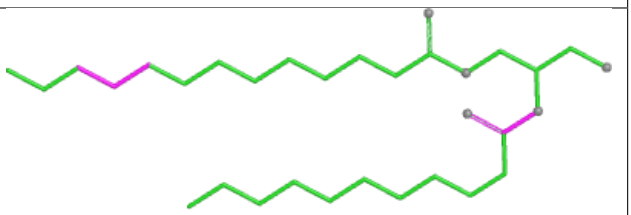
Torsions

Rings

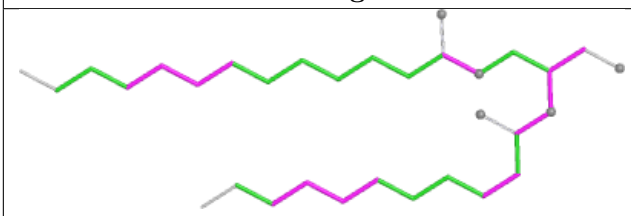
Ligand LMG D 412



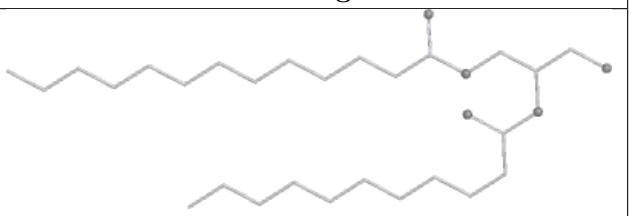
Bond lengths



Bond angles

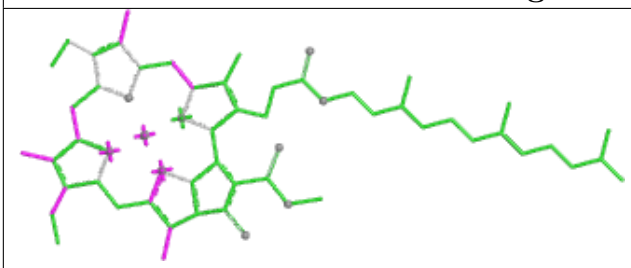


Torsions

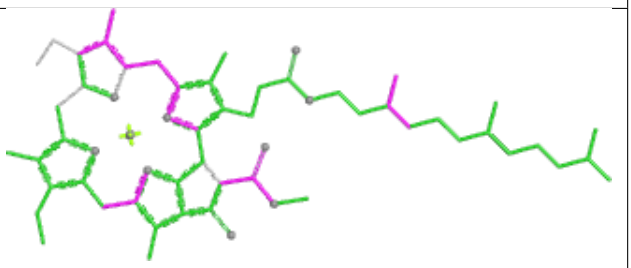


Rings

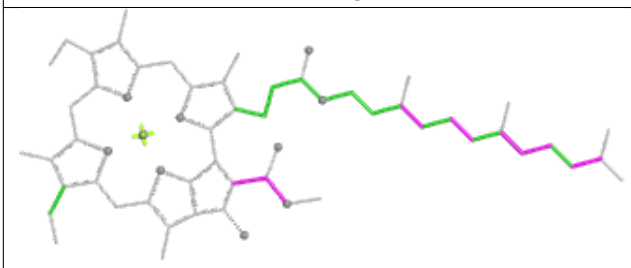
Ligand CLA b 716



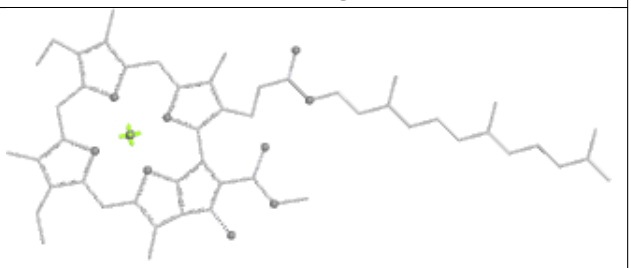
Bond lengths



Bond angles

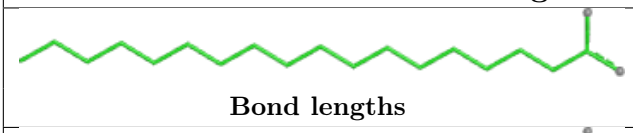


Torsions



Rings

Ligand STE x 101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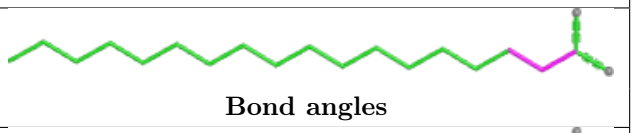

Bond angles

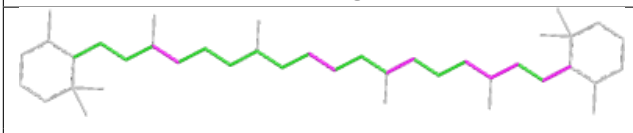

Torsions

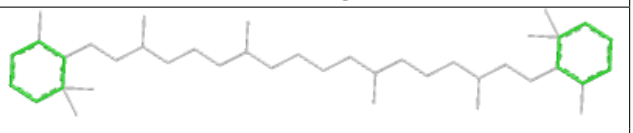

Rings

Ligand BCR D 404

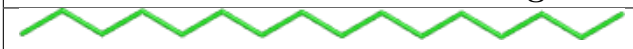

Bond lengths


Bond angles

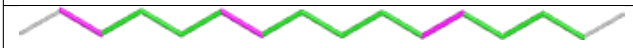

Torsions


Rings

Ligand STE C 522

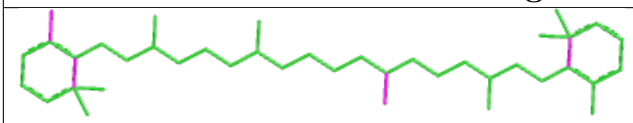

Bond lengths

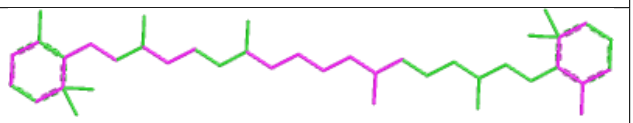

Bond angles

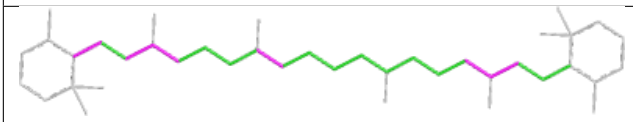

Torsions


Rings

Ligand BCR b 717


Bond lengths


Bond angles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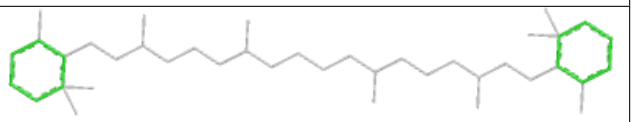
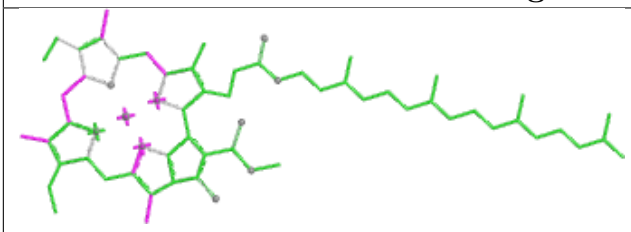
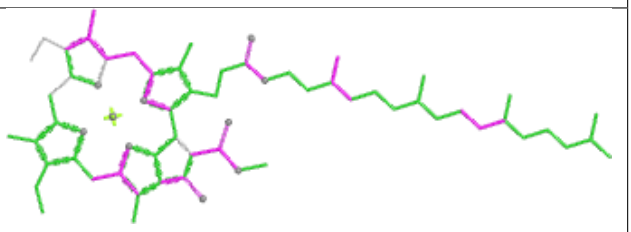
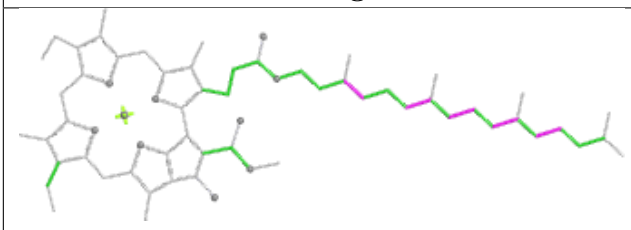

Rings

Ligand CLA b 703


Bond lengths


Bond angles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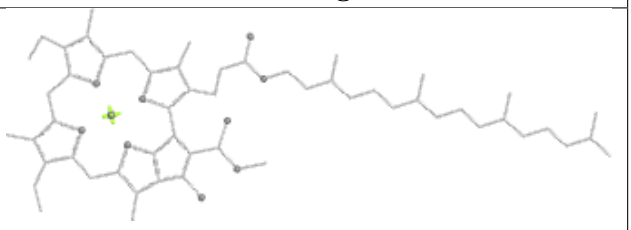
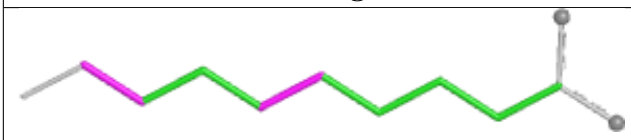

Rings

Ligand STE j 101


Bond lengths


Bond angles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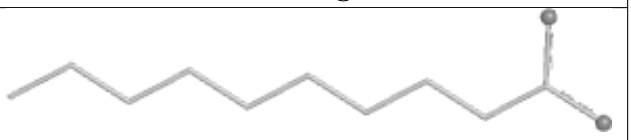
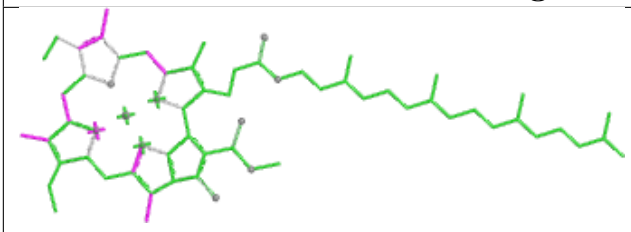
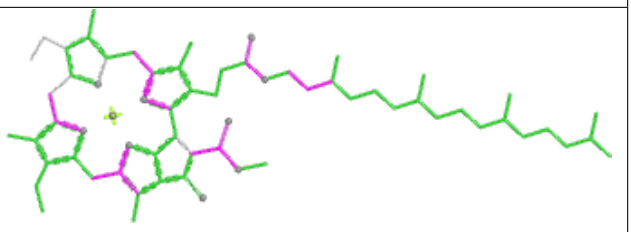
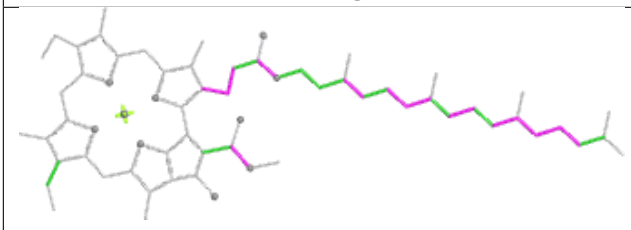
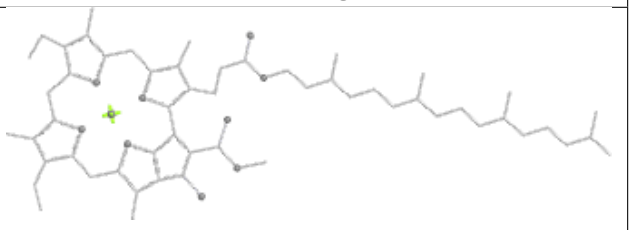

Rings

Ligand CLA c 513

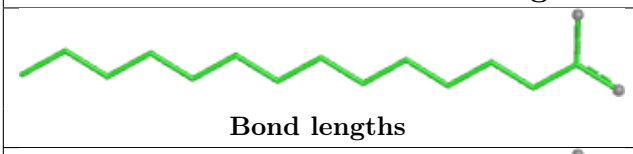

Bond lengths

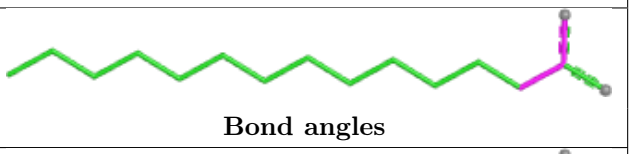

Bond angles

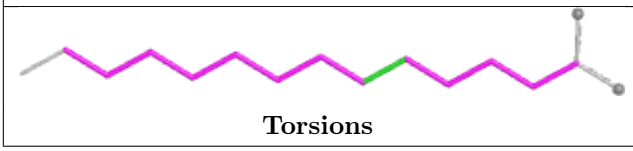

Torsions


Rings

Ligand STE b 724


Bond lengths


Bond angles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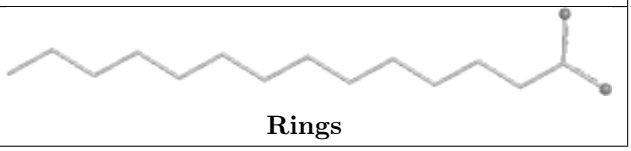
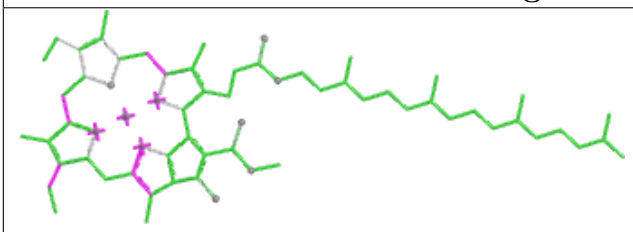
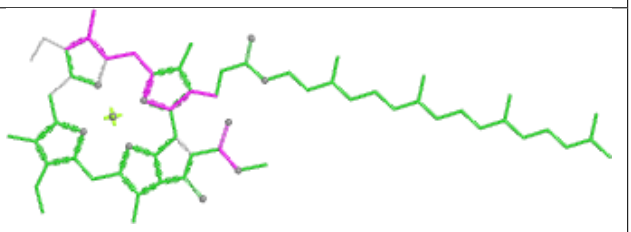
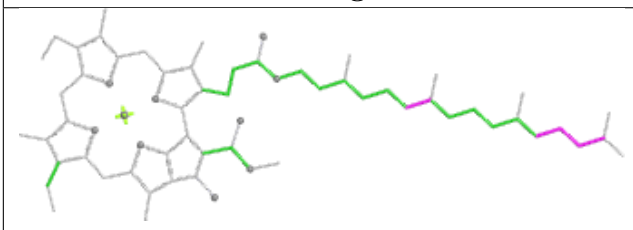
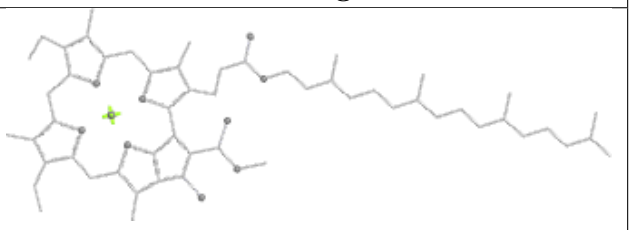

Rings

Ligand CLA D 402

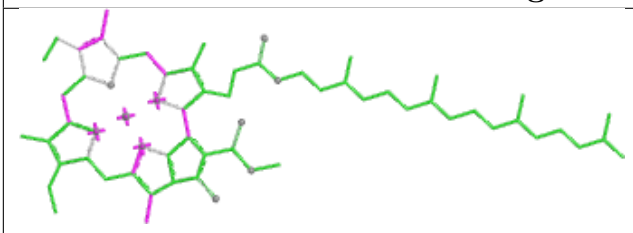

Bond lengths

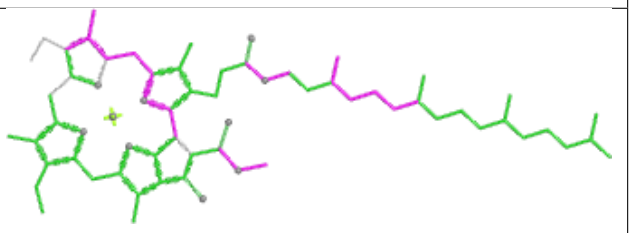

Bond angles

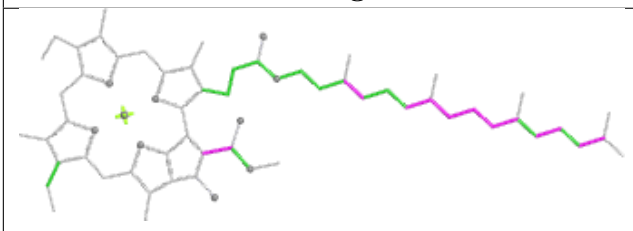

Torsions

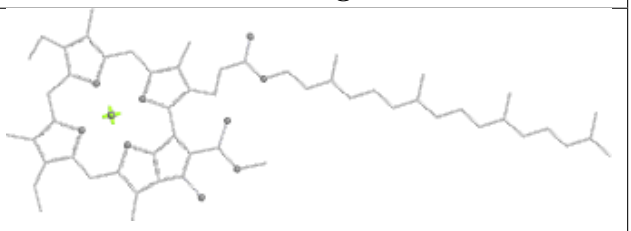

Rings

Ligand CLA b 707

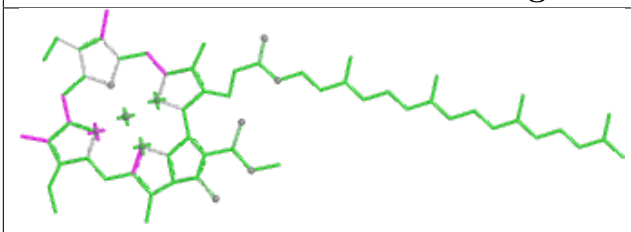

Bond lengths


Bond angles

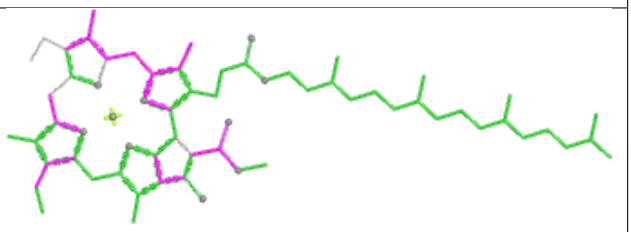

Torsions


Rings

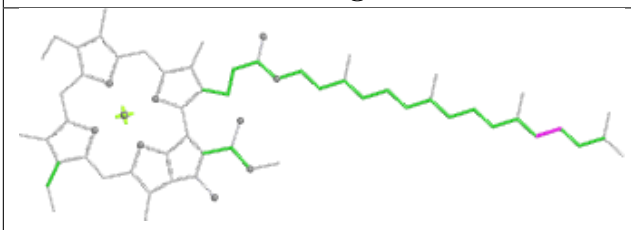
Ligand CLA a 404



Bond lengths



Bond angles



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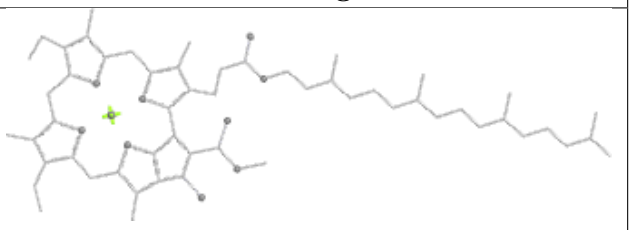
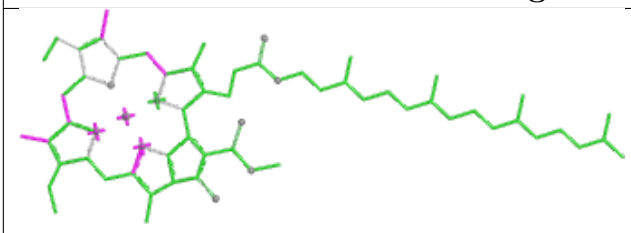


Rings

Ligand CLA a 403



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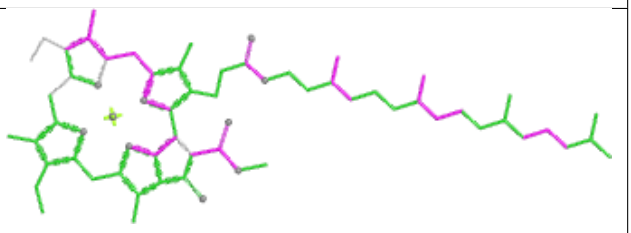
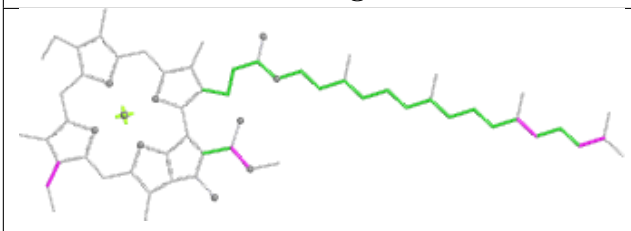


Bond angles



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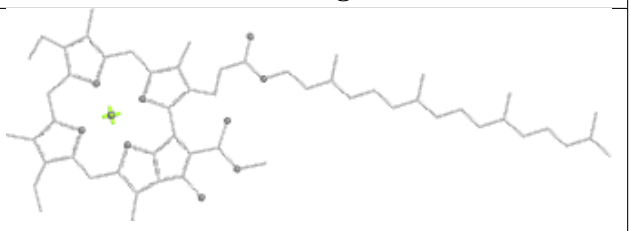
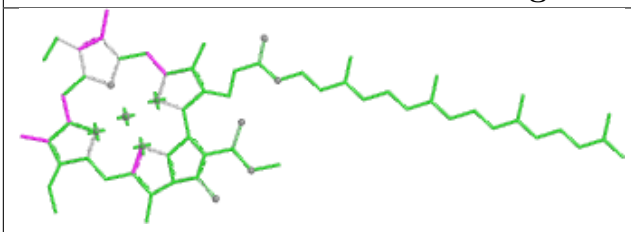
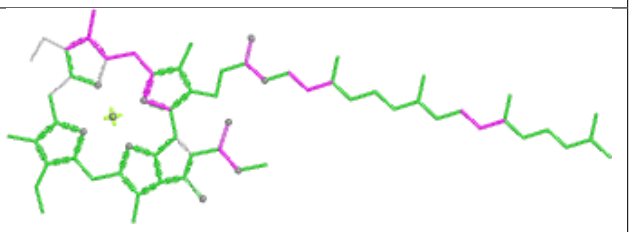


Rings

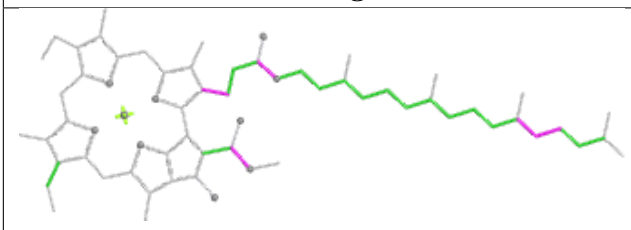
Ligand CLA c 514



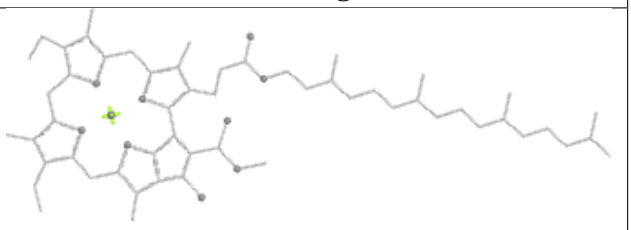
Bond lengths



Bond angles

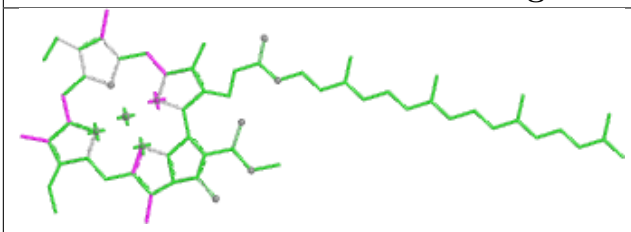


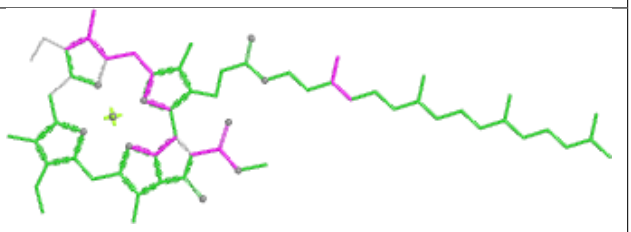
Torsions

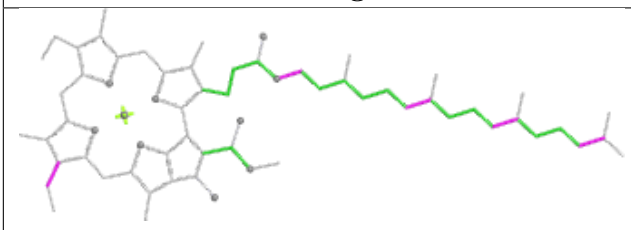


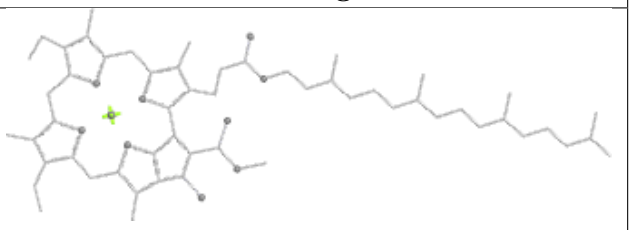
Rings

Ligand CLA d 401


Bond lengths

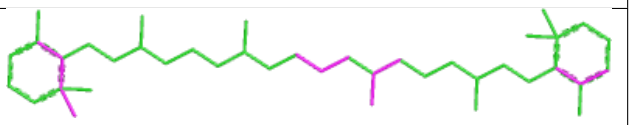

Bond angles

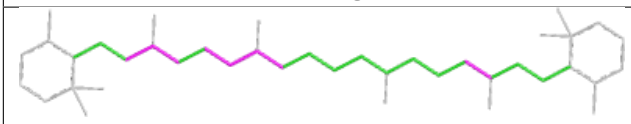

Torsions

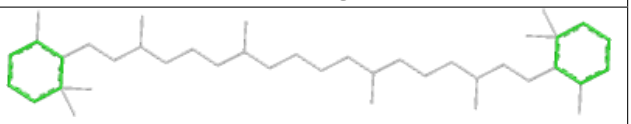

Rings

Ligand BCR t 701


Bond lengths


Bond angles


Torsions


Rings

Ligand STE b 726

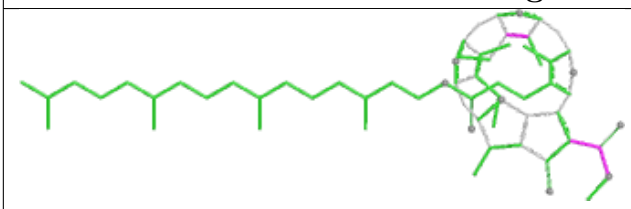

Bond lengths

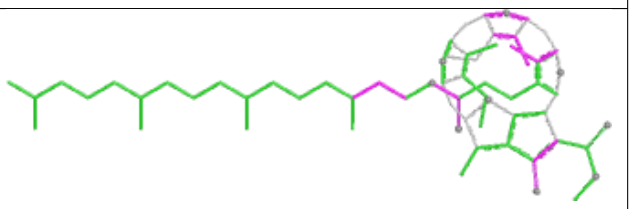

Bond angles

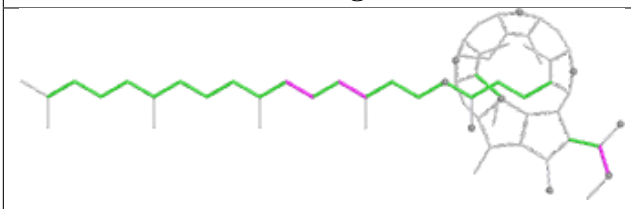

Torsions

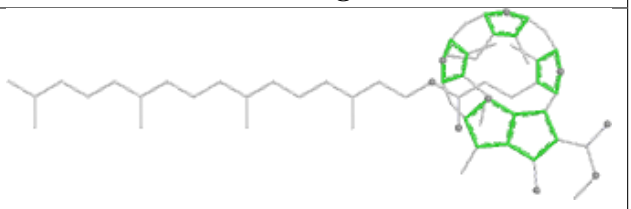

Rings

Ligand PHO a 405

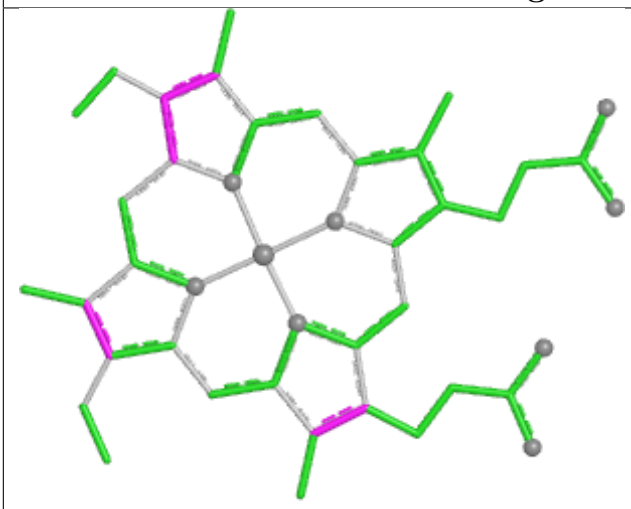

Bond lengths


Bond angles

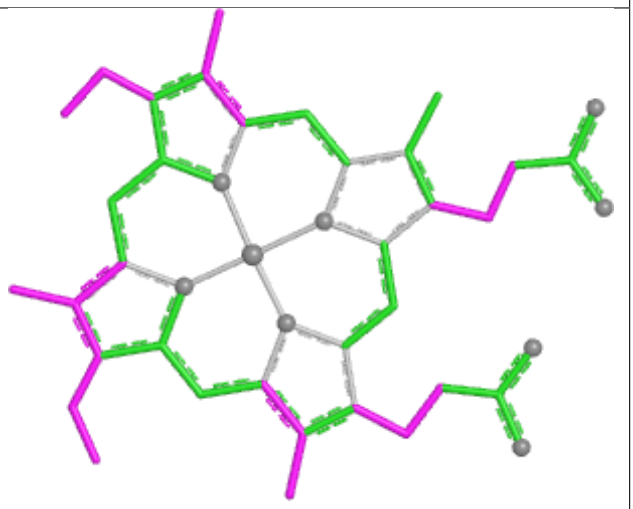

Torsions


Rings

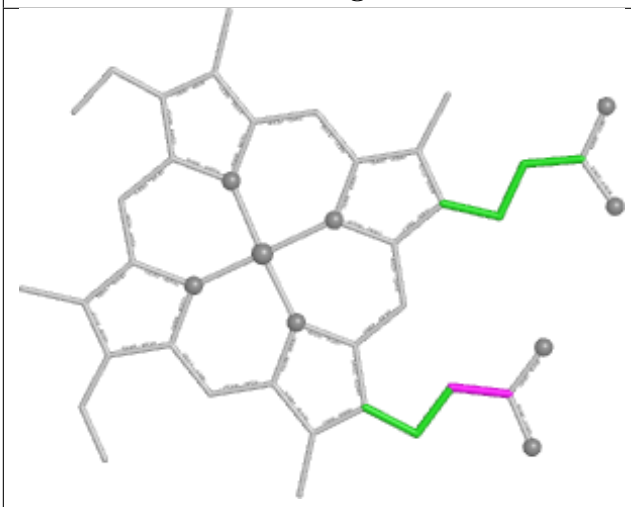
Ligand HEC e 101



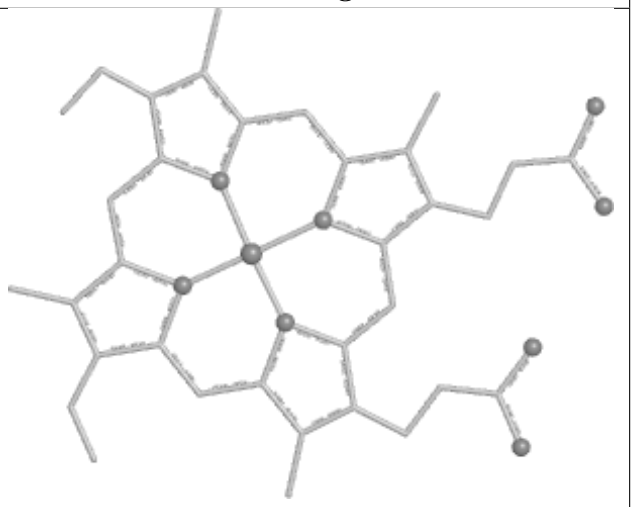
Bond lengths



Bond angles

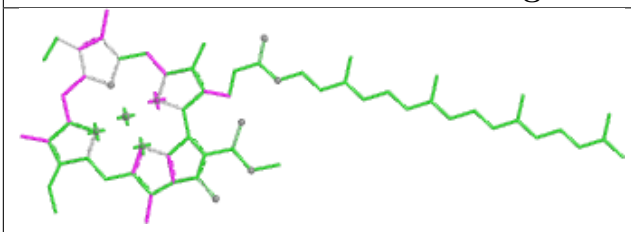


Torsions

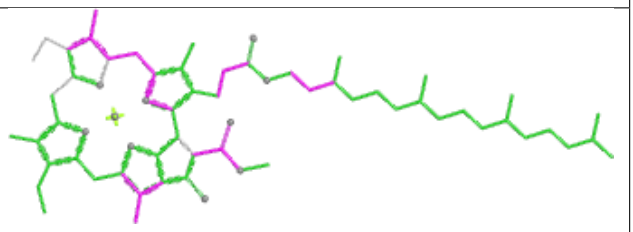


Rings

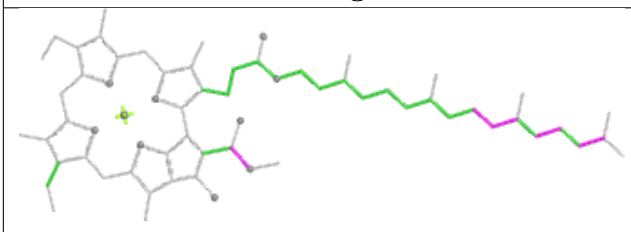
Ligand CLA D 403



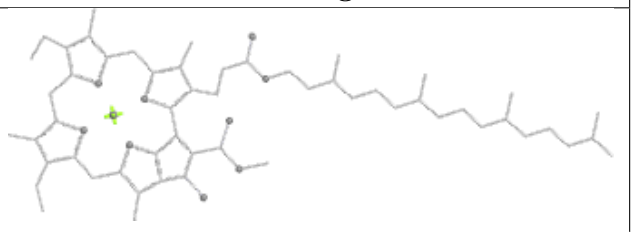
Bond lengths



Bond angles

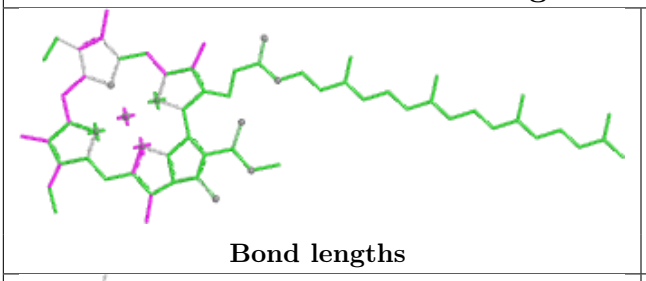


Torsions



Rings

Ligand CLA c 507



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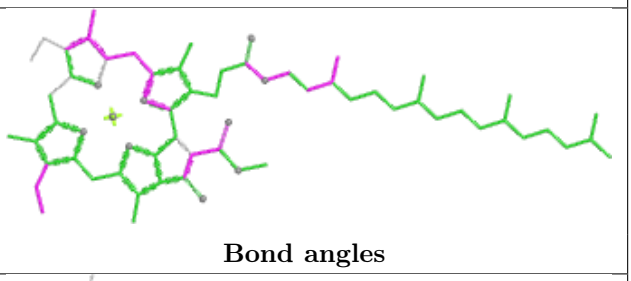
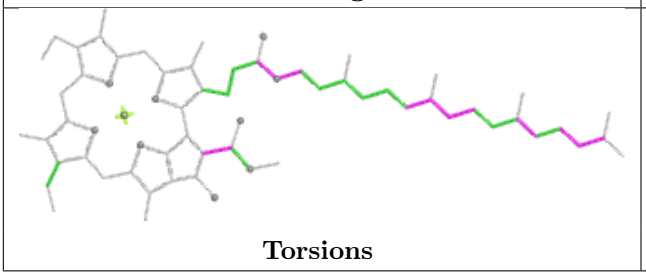
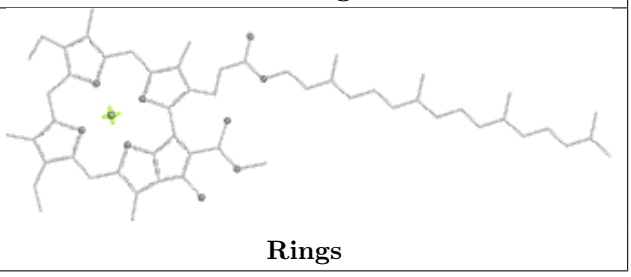


Bond angles

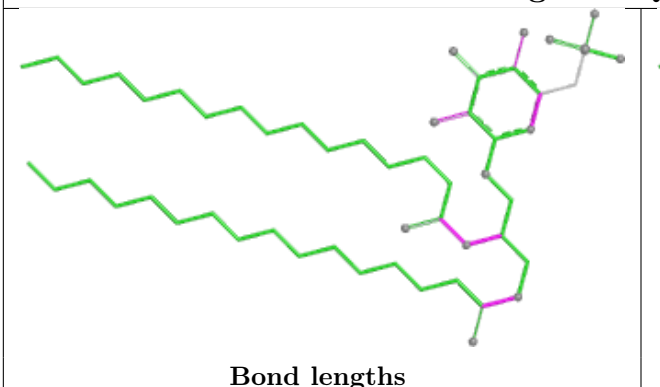


Torsions

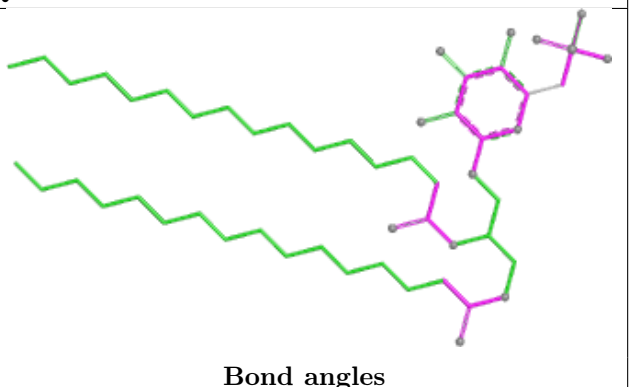


Rings

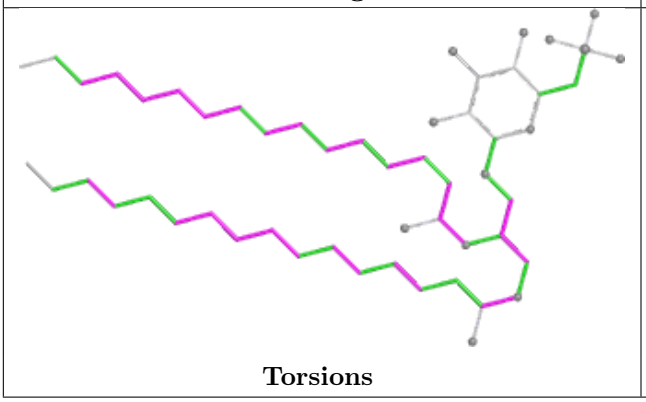
Ligand SQD a 413



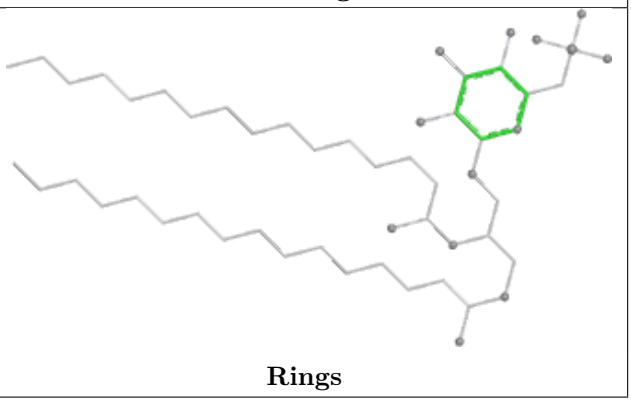
Bond lengths



Bond angles

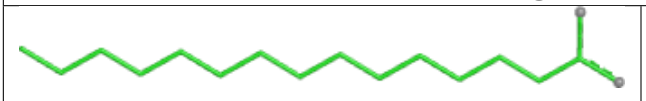


Torsions

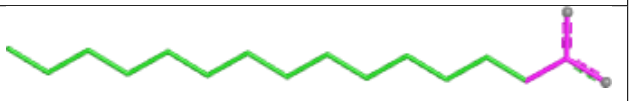


Rings

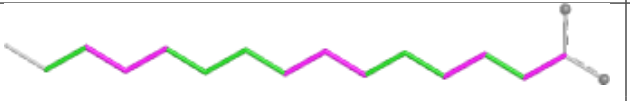
Ligand STE d 409



Bond lengths



Bond angles



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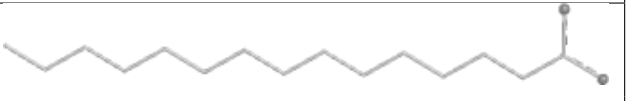
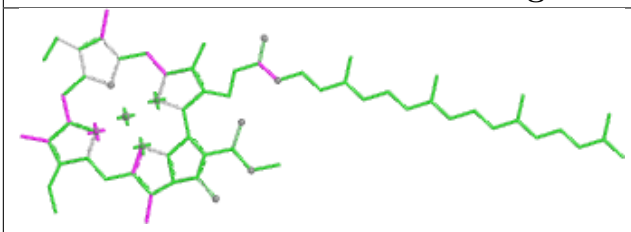
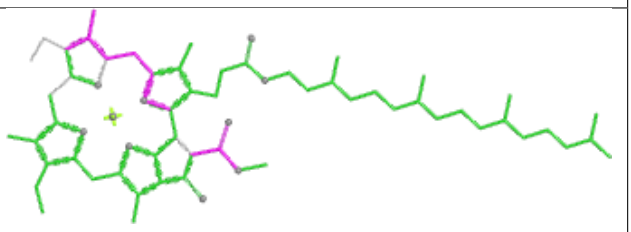


Rings

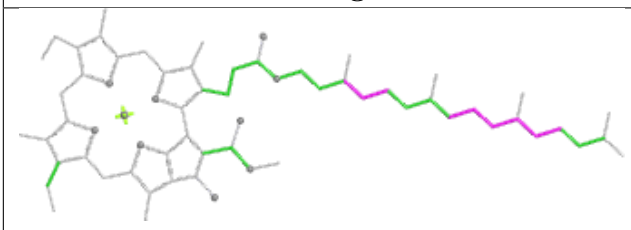
Ligand CLA b 701



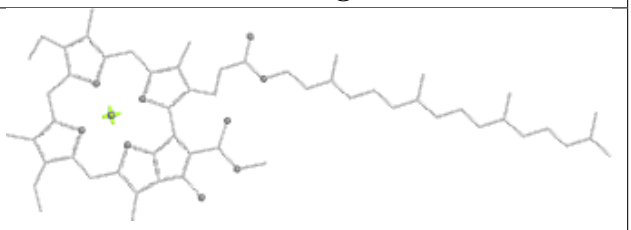
Bond lengths



Bond angles

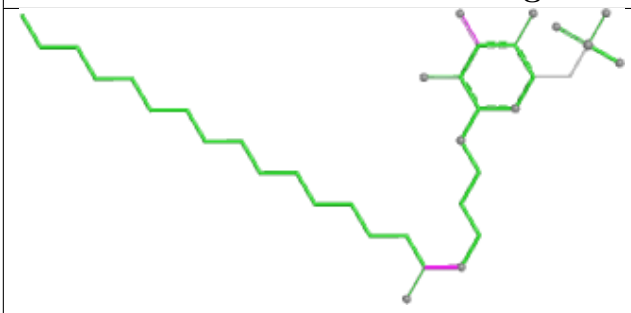


Torsions



Rings

Ligand SQD D 409



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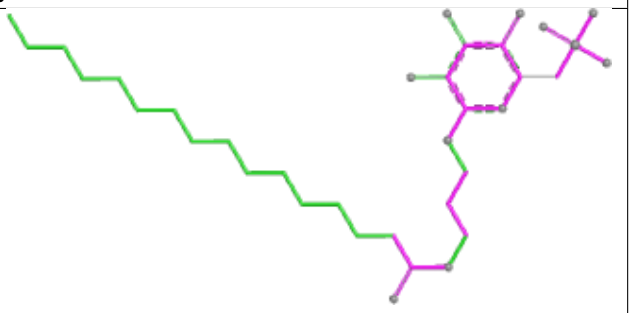
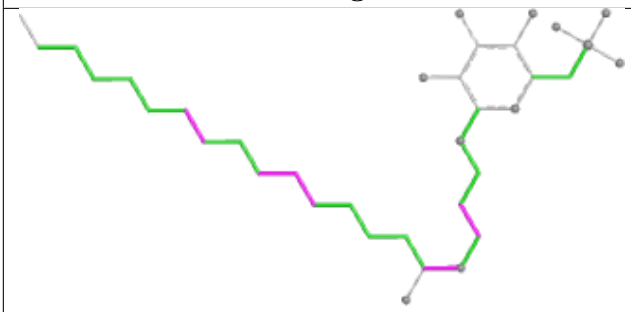


Bond angles



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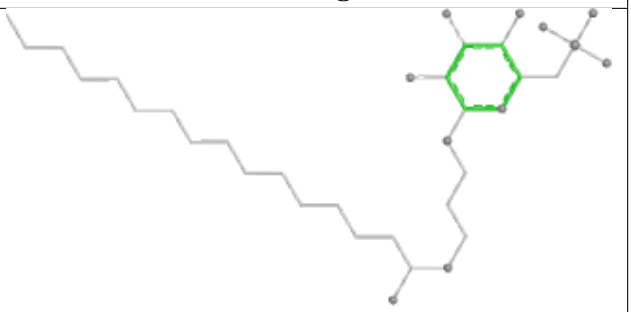
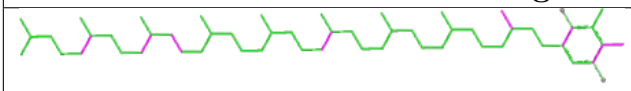
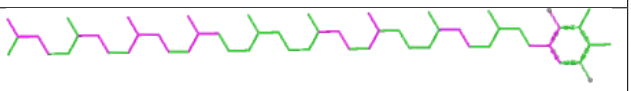


Rings

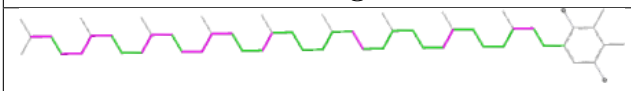
Ligand PL9 d 404



Bond lengths



Bond angles



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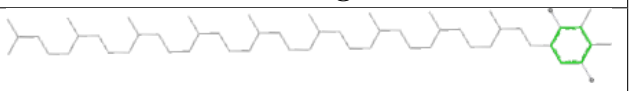
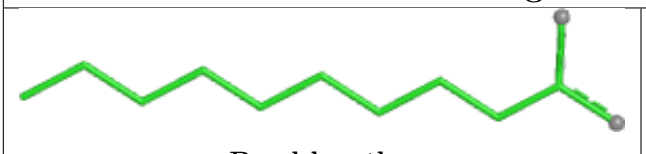
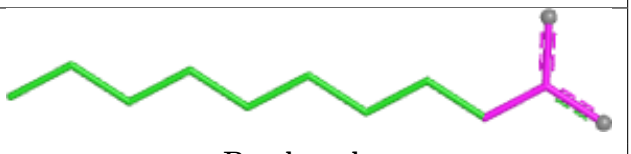


Rings

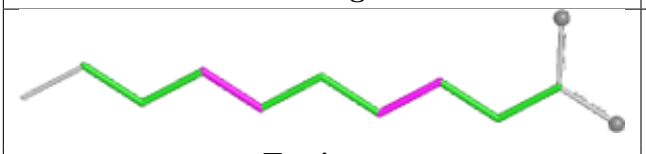
Ligand STE m 101



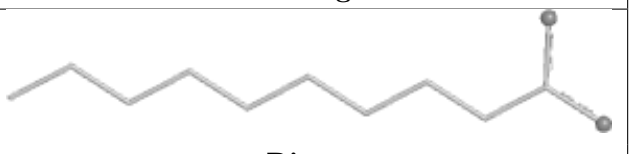
Bond lengths



Bond angles

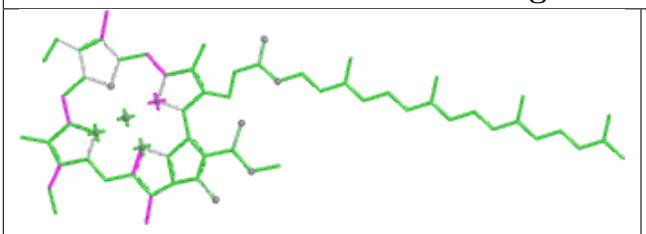


Torsions

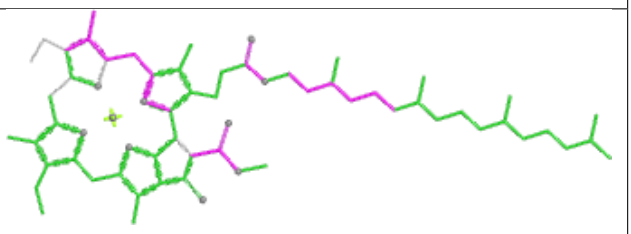


Rings

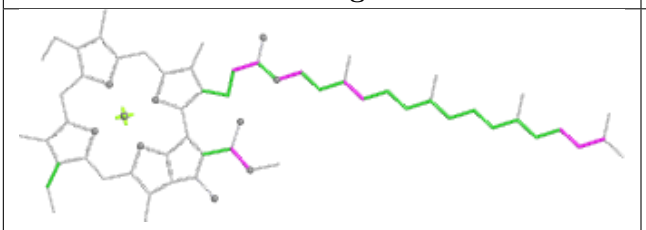
Ligand CLA c 511



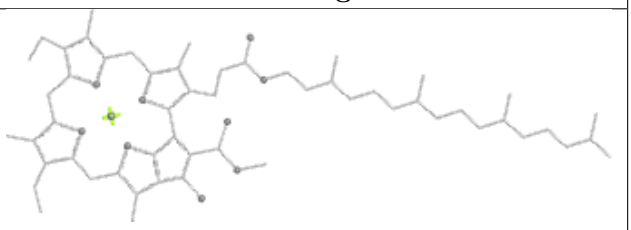
Bond lengths



Bond angles



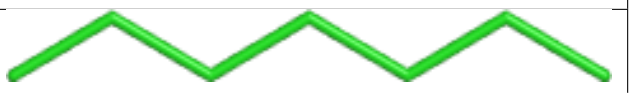
Torsions



Rings

Ligand STE E 102

Bond lengths

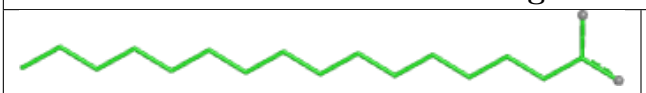


Bond angles

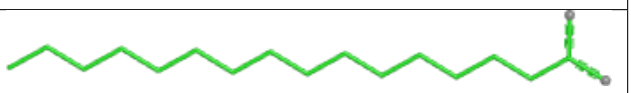
Torsions

Rings

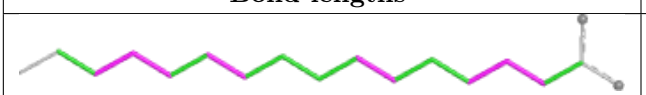
Ligand STE B 725



Bond lengths



Bond angles



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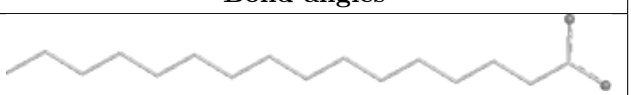
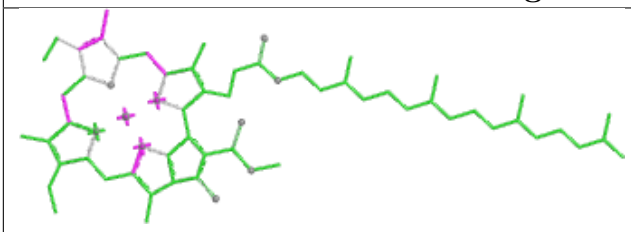


Rings

Ligand CLA B 706



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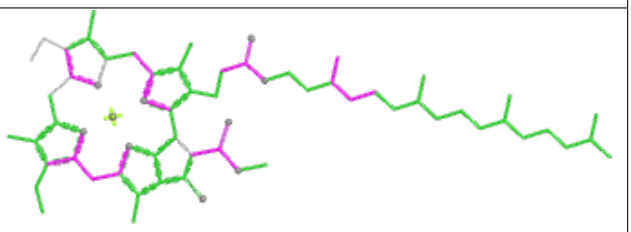
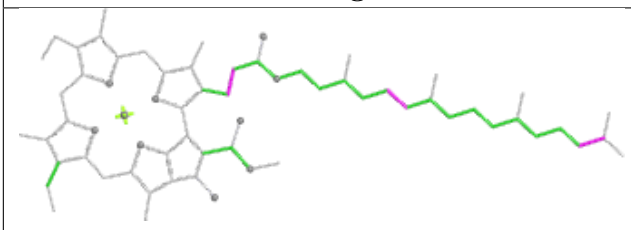
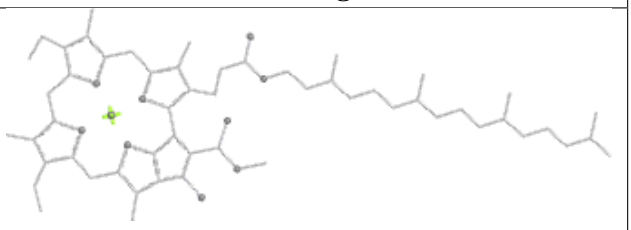


Bond angles

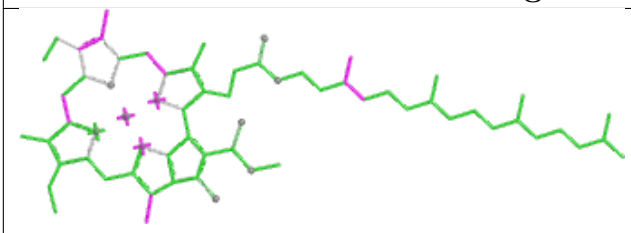


Torsions

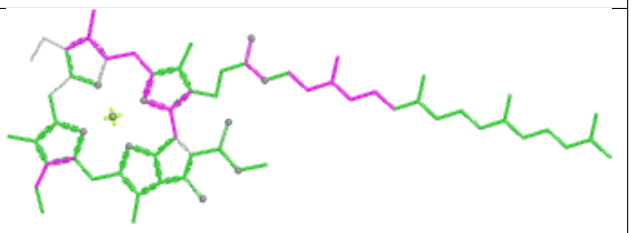


Rings

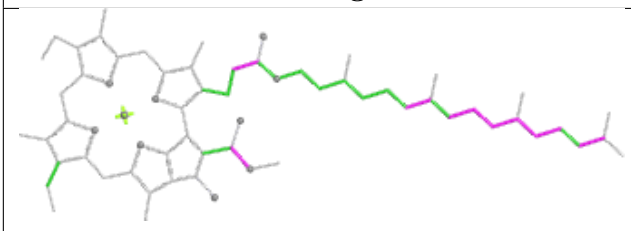
Ligand CLA B 713



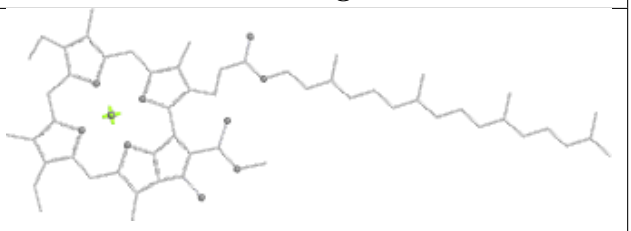
Bond lengths



Bond angles

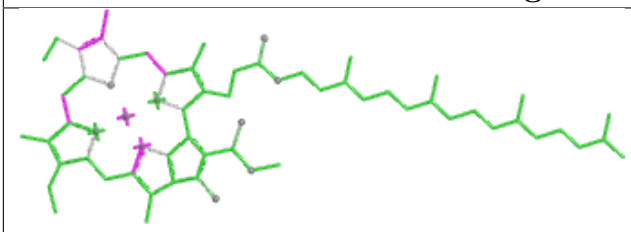


Torsions

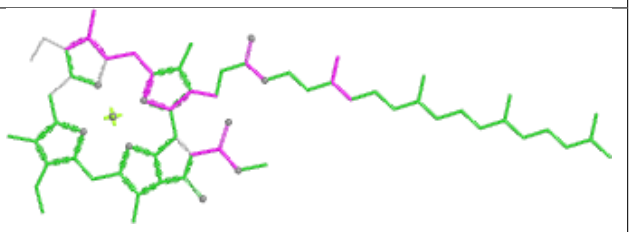


Rings

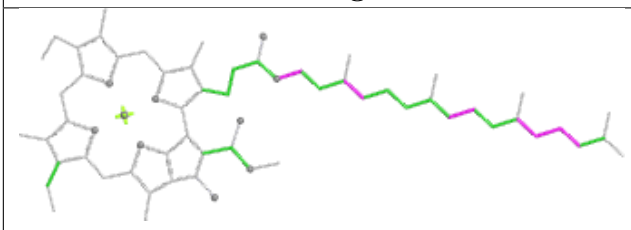
Ligand CLA C 507



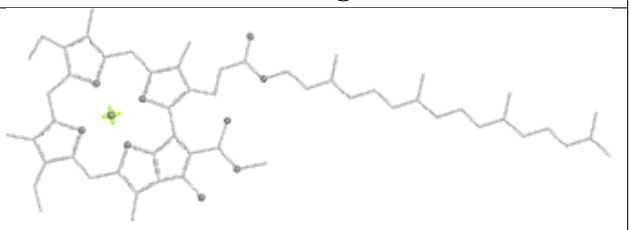
Bond lengths



Bond angles

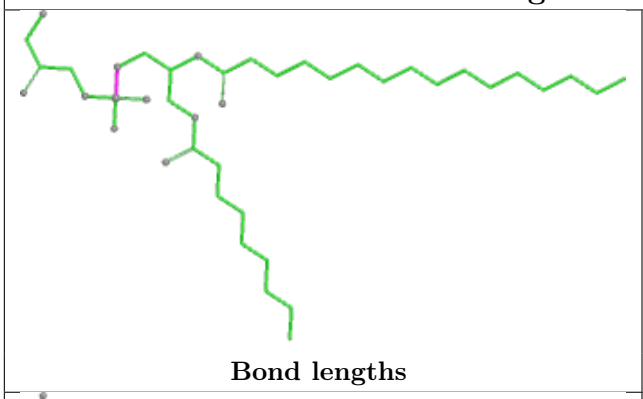


Torsions

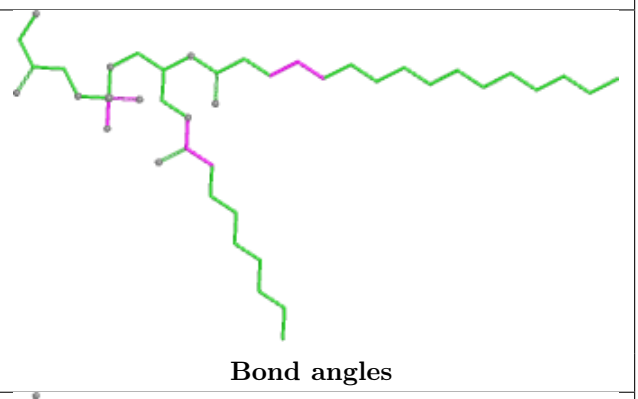


Rings

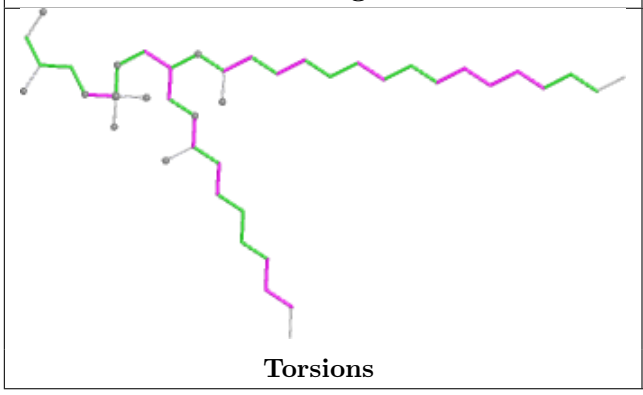
Ligand LHG a 414



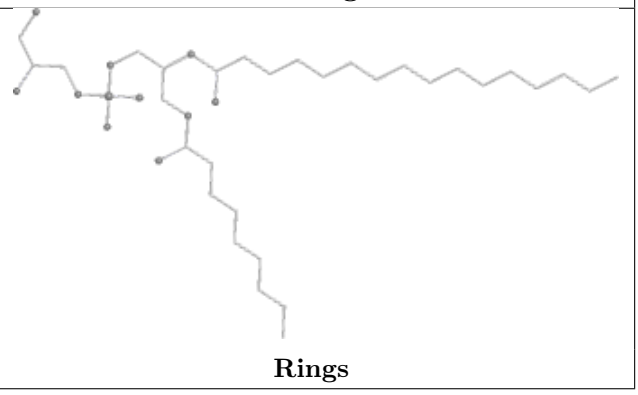
Bond lengths



Bond angles

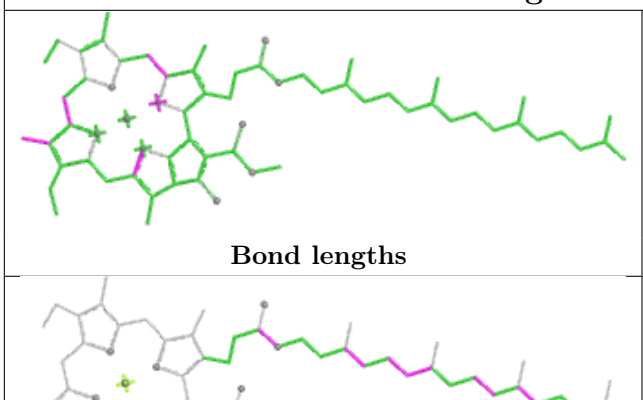


Torsions

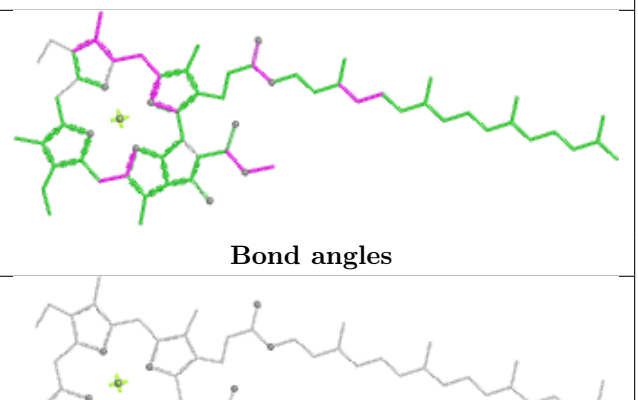


Rings

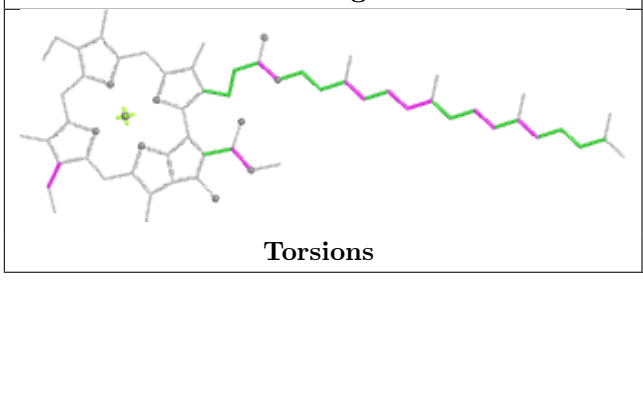
Ligand CLA C 506



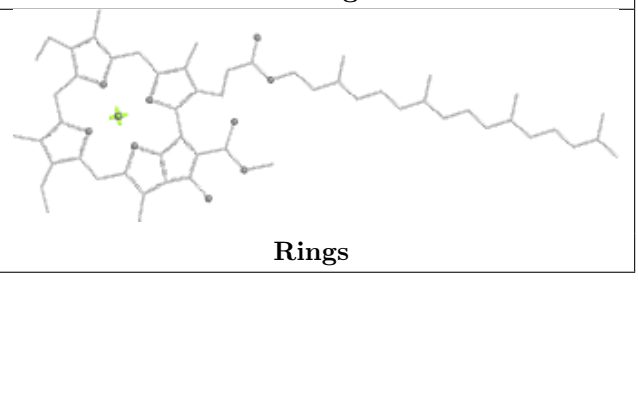
Bond lengths



Bond angles

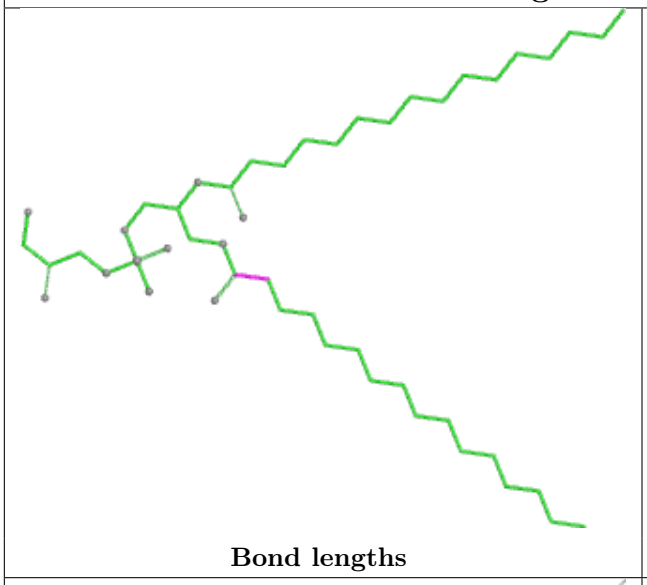


Torsions

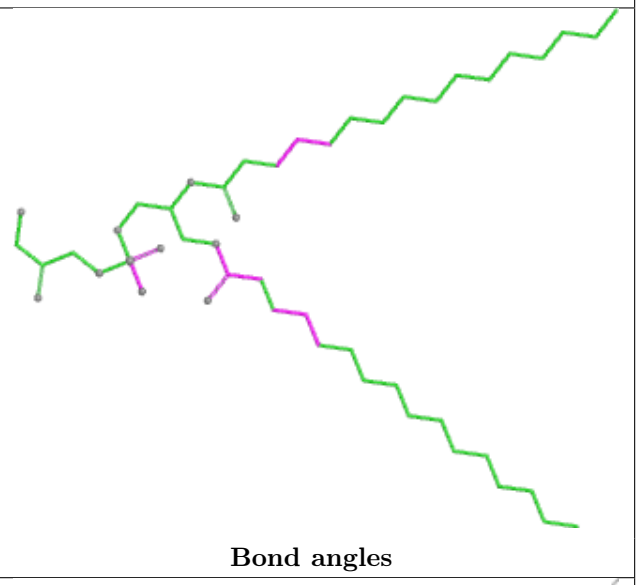


Rings

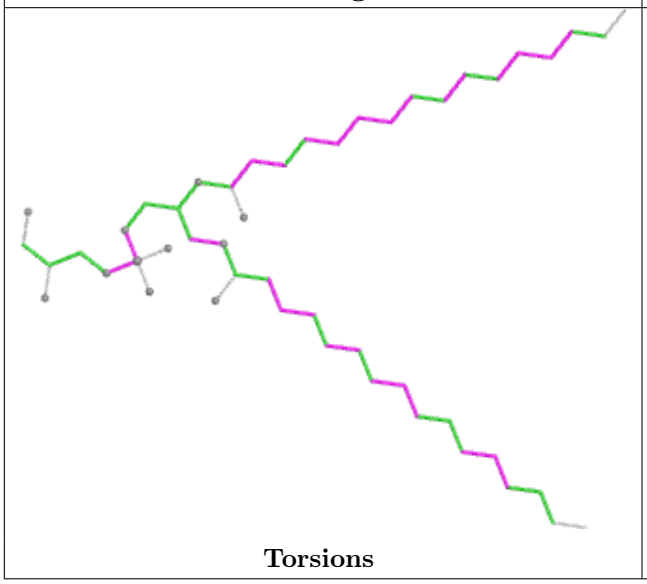
Ligand LHG l 101



Bond lengths



Bond angles



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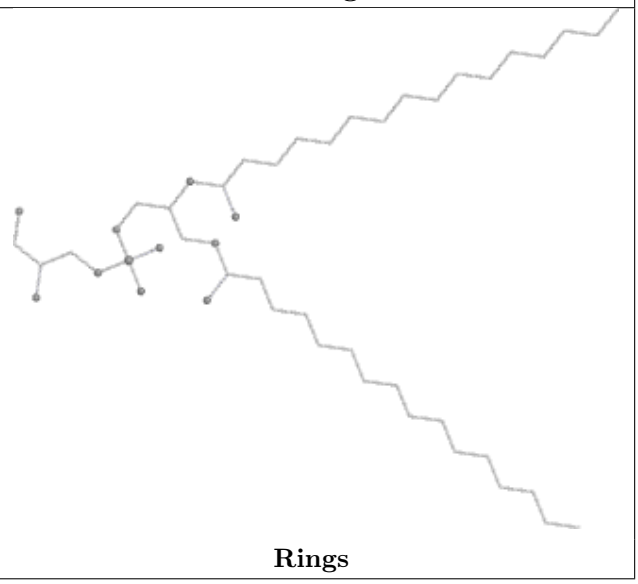
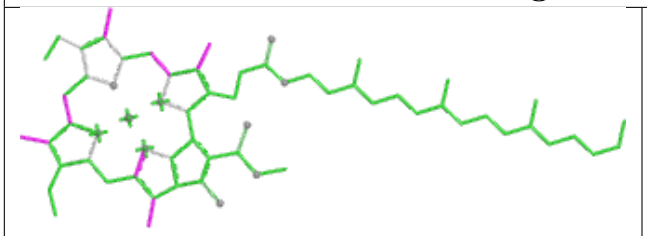
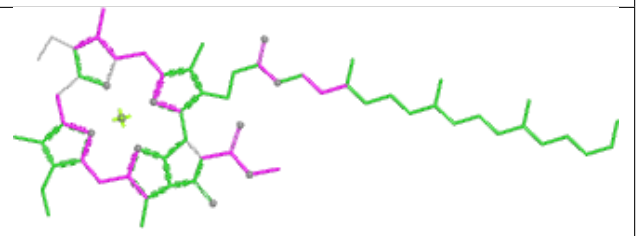


Rings

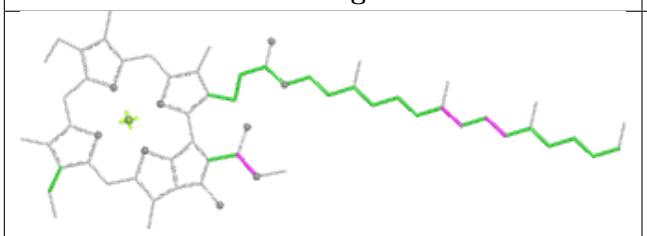
Ligand CLA c 509



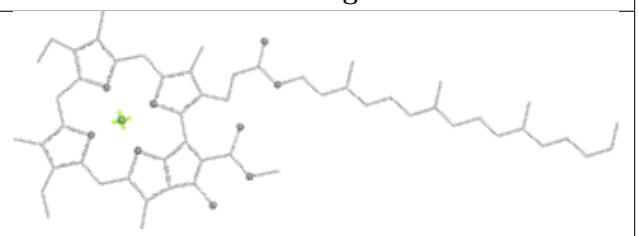
Bond lengths



Bond angles

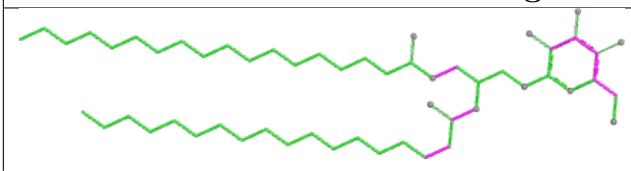


Torsions

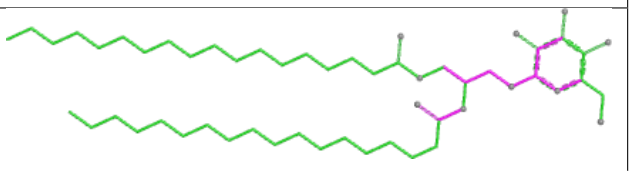


Rings

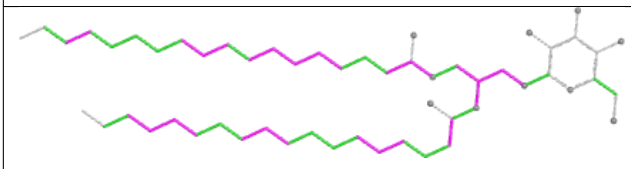
Ligand LMG a 419



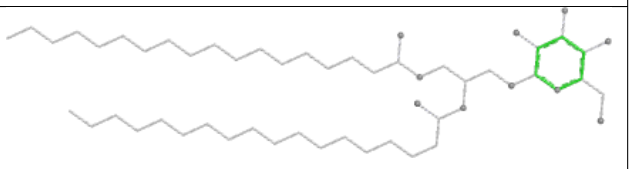
Bond lengths



Bond angles

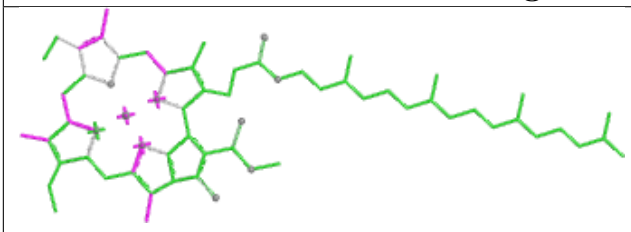


Torsions

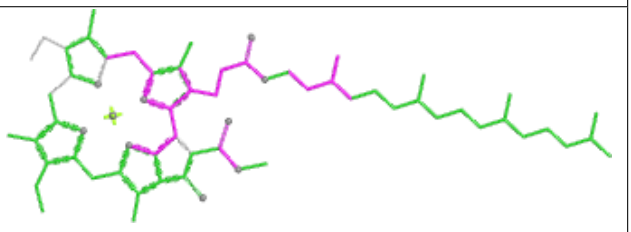


Rings

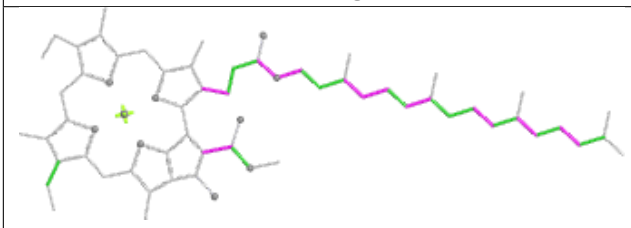
Ligand CLA H 102



Bond lengths



Bond angles



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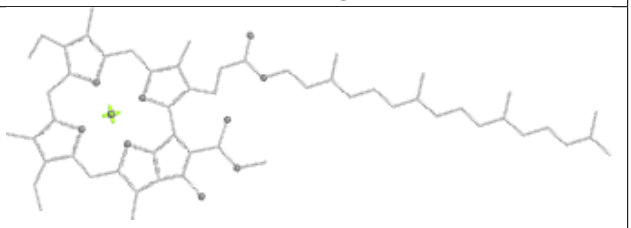
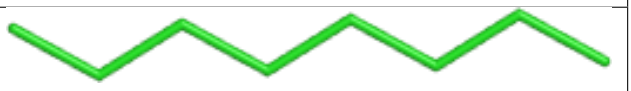


Rings

Ligand STE H 105

Bond lengths

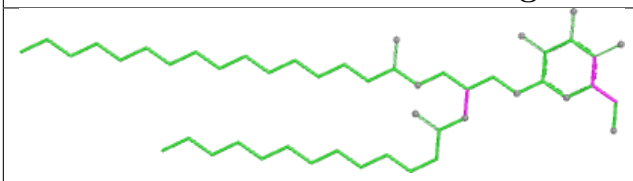


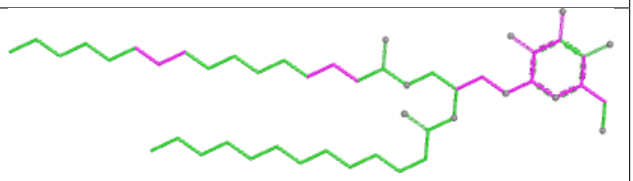
Bond angles

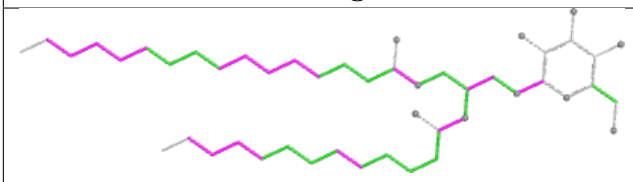
Torsions

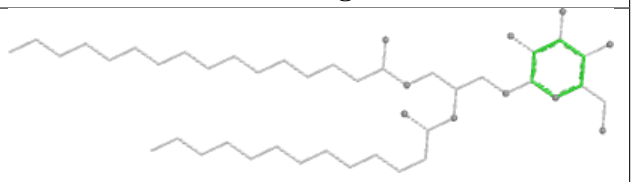
Rings

Ligand LMG C 520

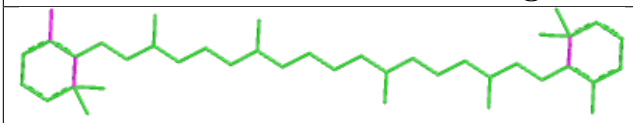

Bond lengths

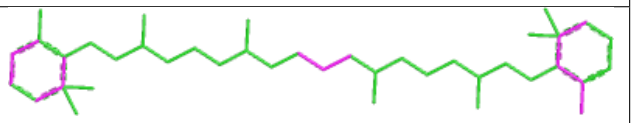

Bond angles

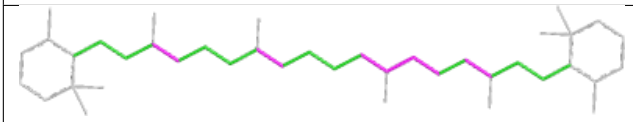

Torsions

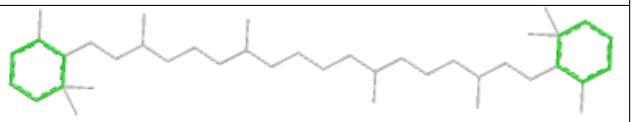

Rings

Ligand BCR B 717

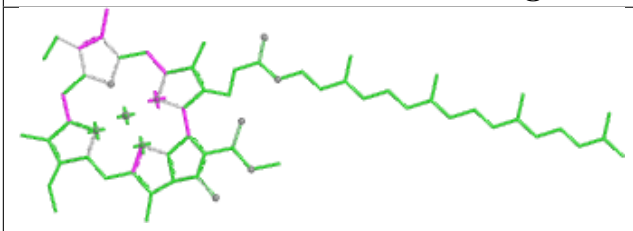

Bond lengths

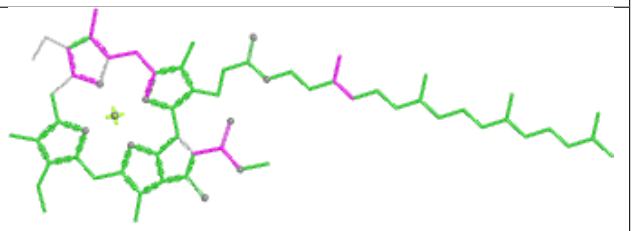

Bond angles

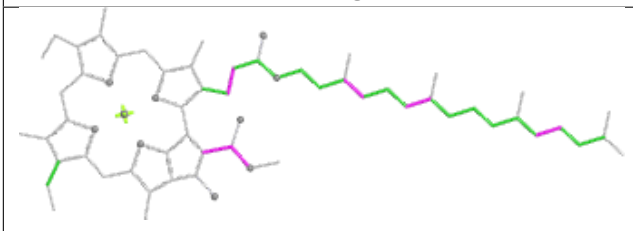

Torsions

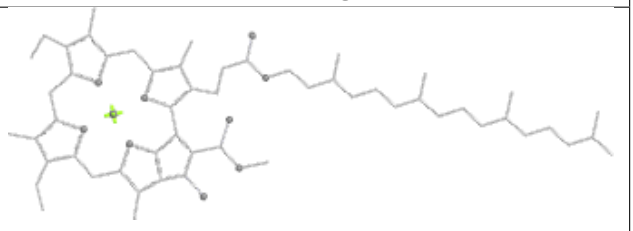

Rings

Ligand CLA B 714

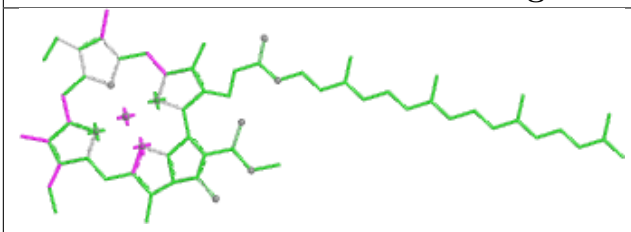

Bond lengths


Bond angles

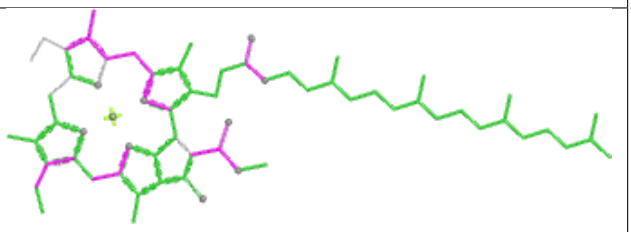

Torsions


Rings

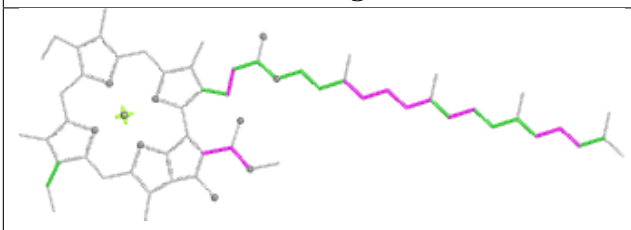
Ligand CLA b 714



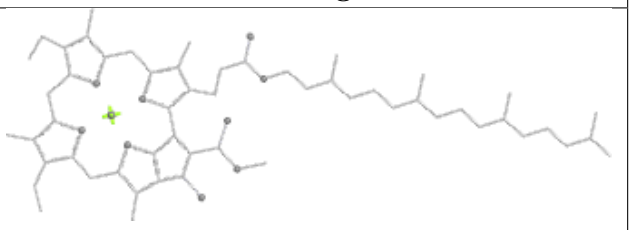
Bond lengths



Bond angles

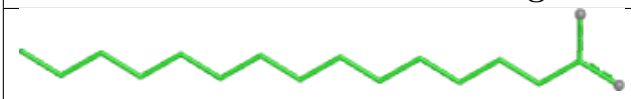


Torsions



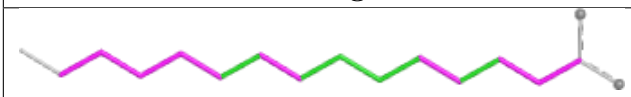
Rings

Ligand STE B 720

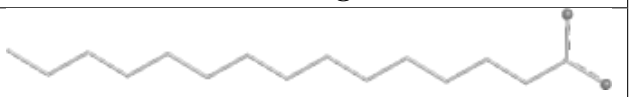


Bond lengths

Bond angles

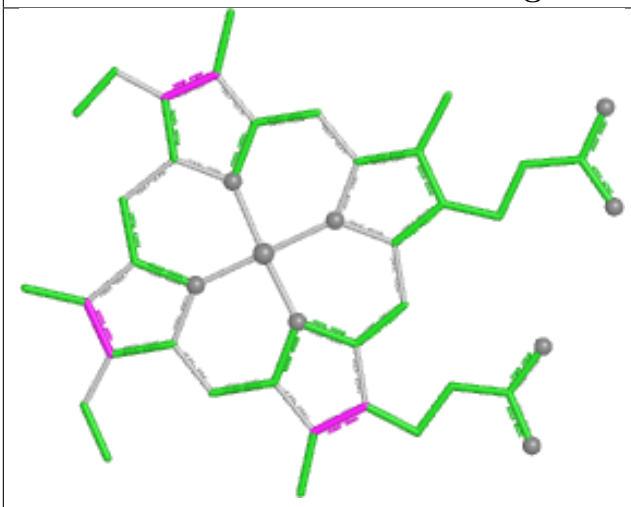


Torsions

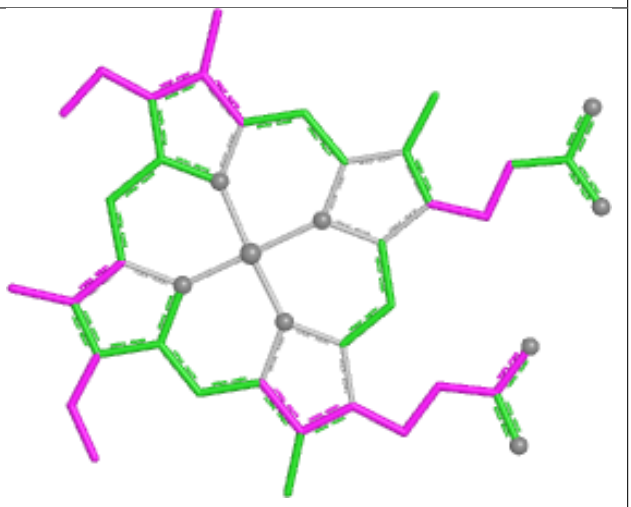


Rings

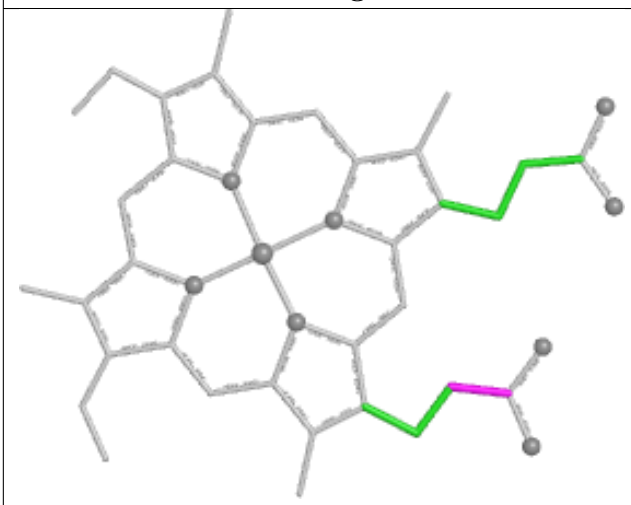
Ligand HEC E 103



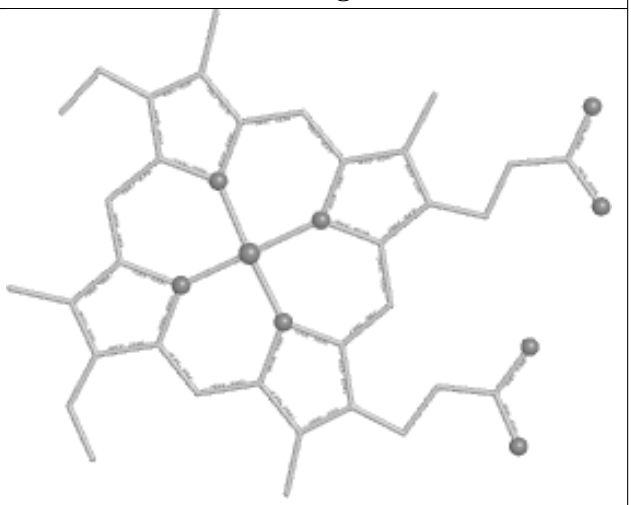
Bond lengths



Bond angles

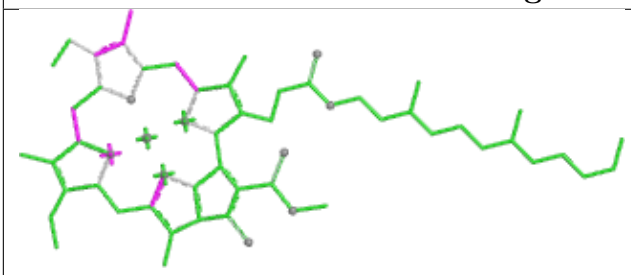


Torsions



Rings

Ligand CLA C 505



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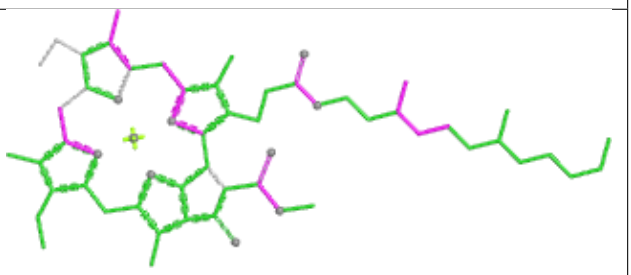
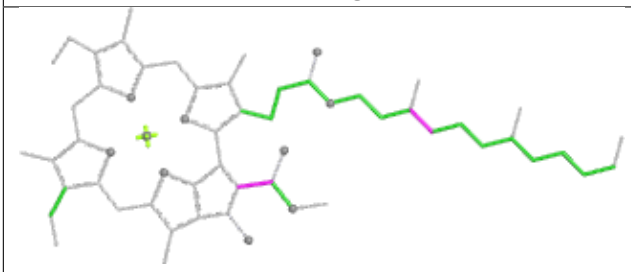
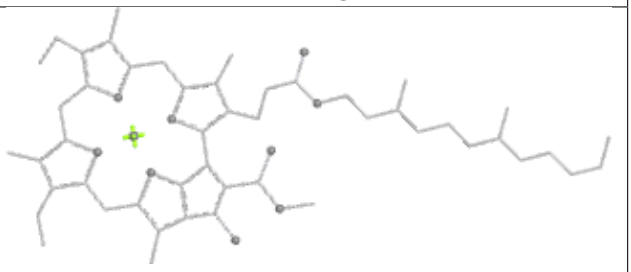


Bond angles

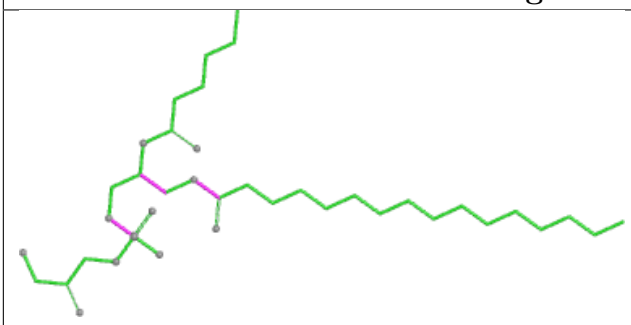


Torsions

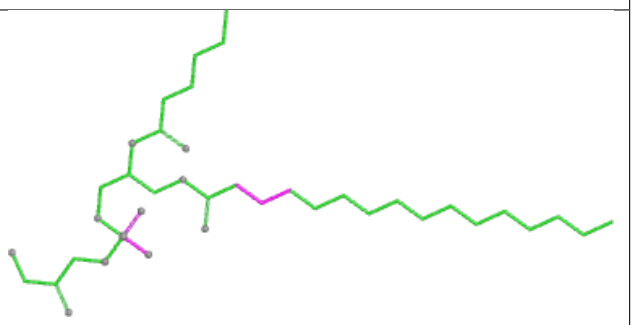


Rings

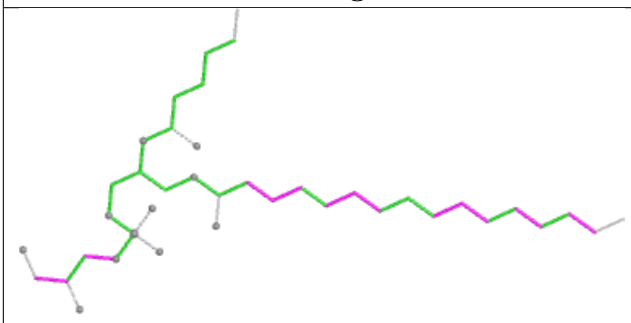
Ligand LHG d 407



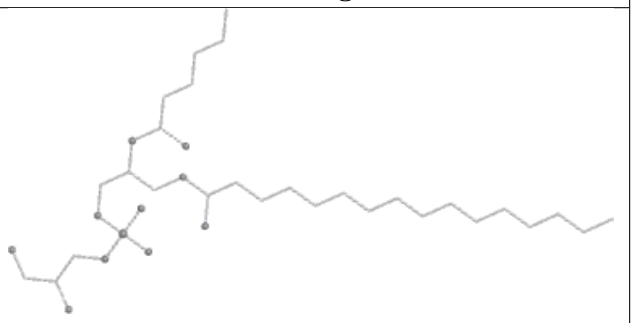
Bond lengths



Bond angles

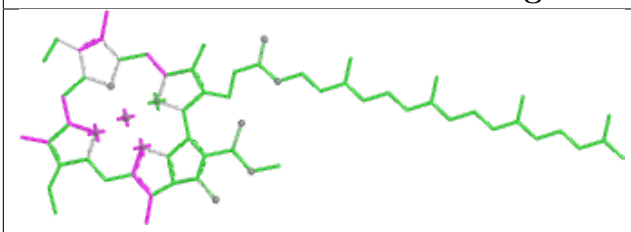


Torsions

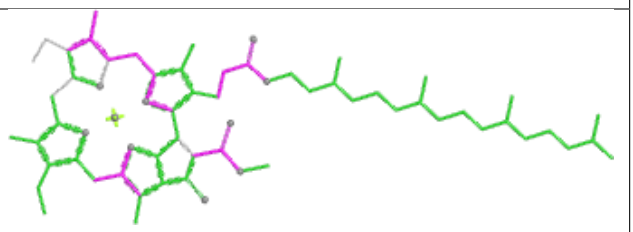


Rings

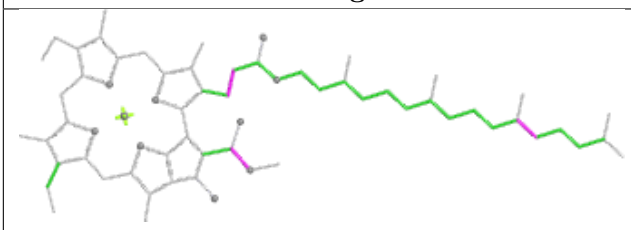
Ligand CLA C 502



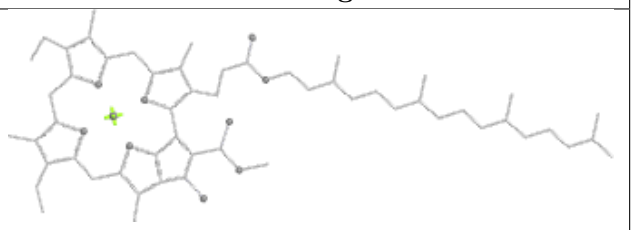
Bond lengths



Bond angles

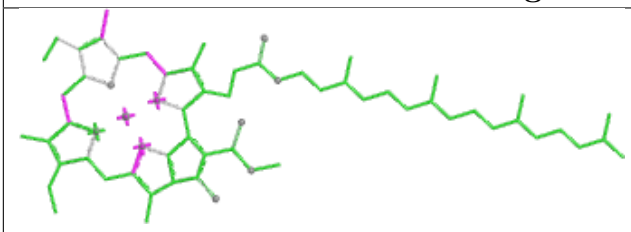


Torsions

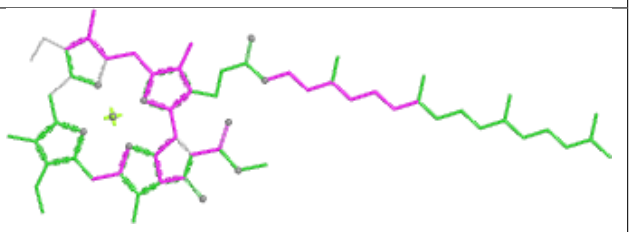


Rings

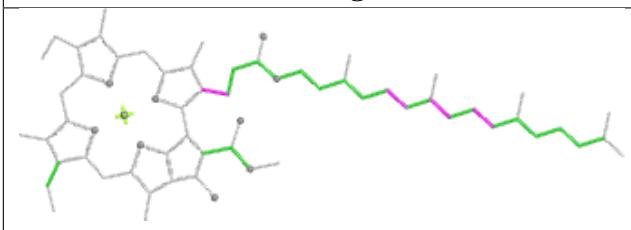
Ligand CLA C 504



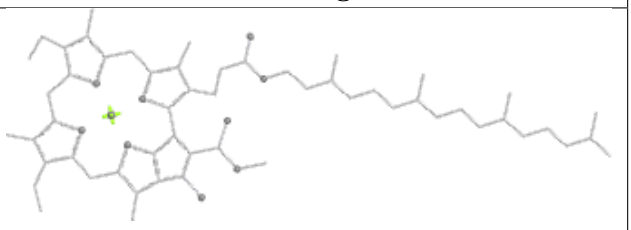
Bond lengths



Bond angles



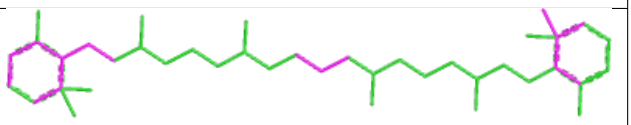
Torsions



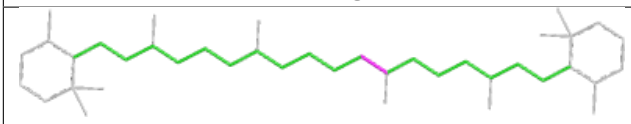
Rings

Ligand BCR B 719

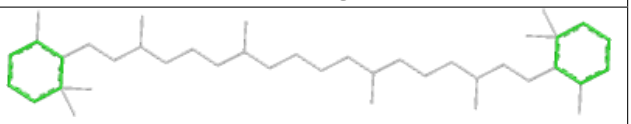
Bond lengths



Bond angles



Torsions



Rings

Ligand STE a 416

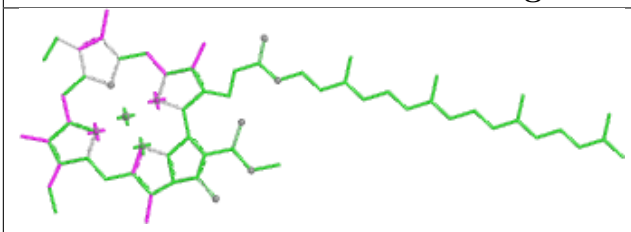
Bond lengths

Bond angles

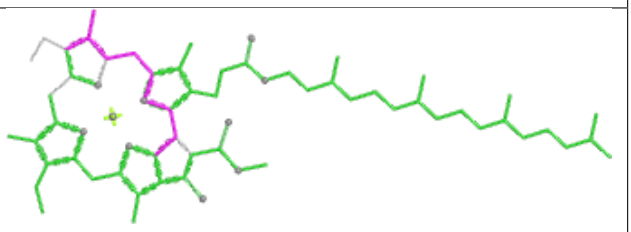
Torsions

Rings

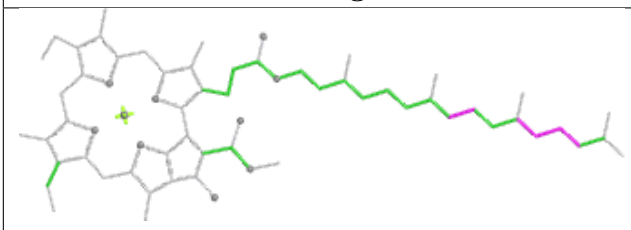
Ligand CLA B 707



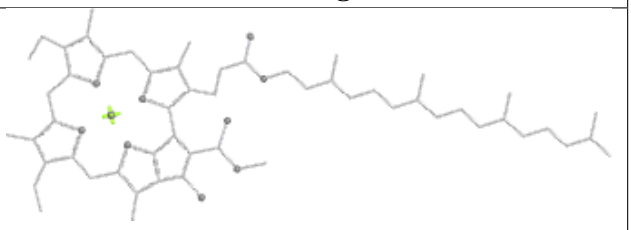
Bond lengths



Bond angles

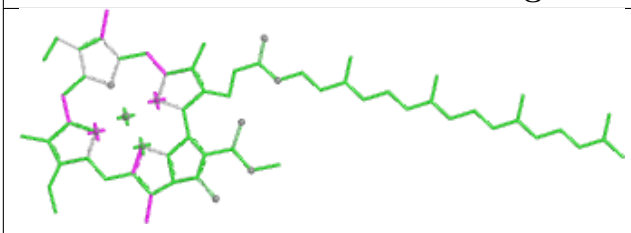


Torsions

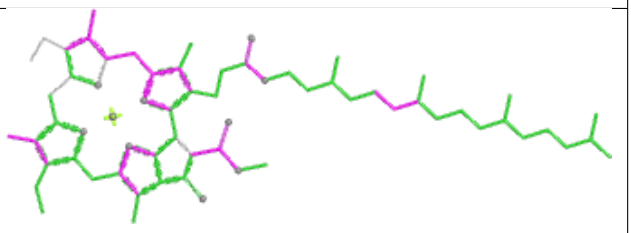


Rings

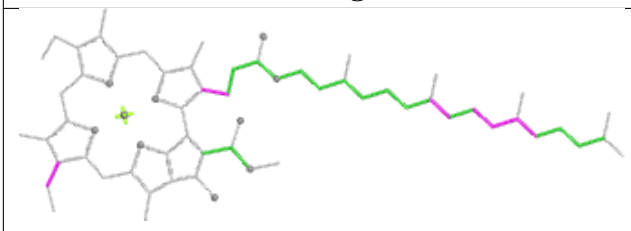
Ligand CLA B 704



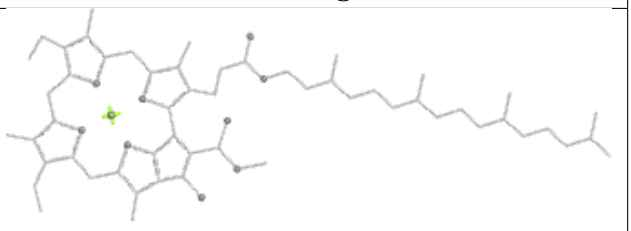
Bond lengths



Bond angles

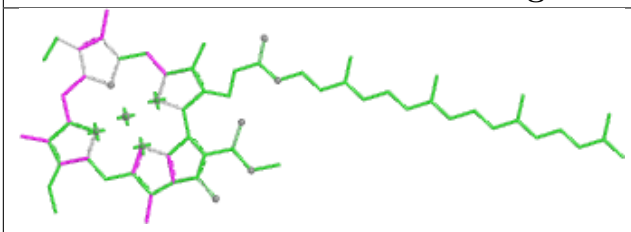


Torsions

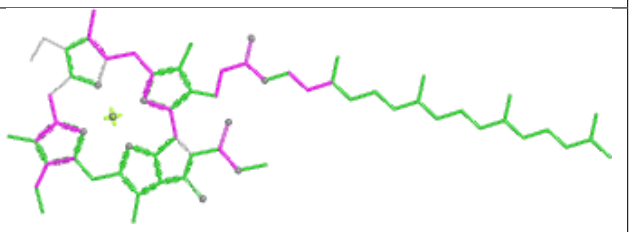


Rings

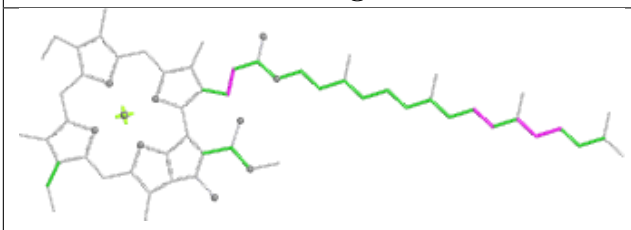
Ligand CLA b 710



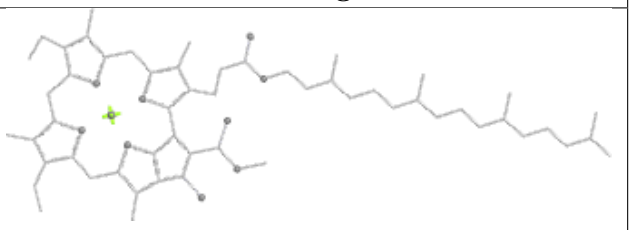
Bond lengths



Bond angles

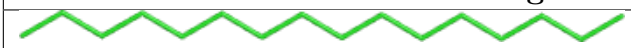


Torsions

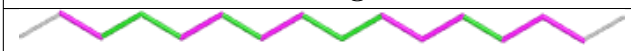


Rings

Ligand STE A 411

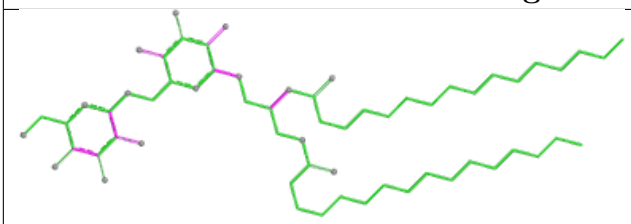

Bond lengths

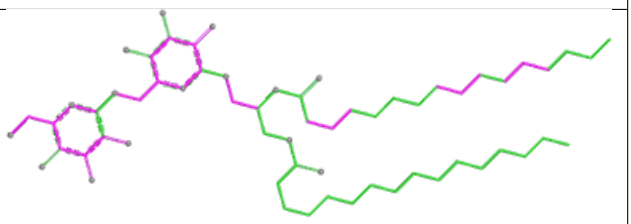

Bond angles

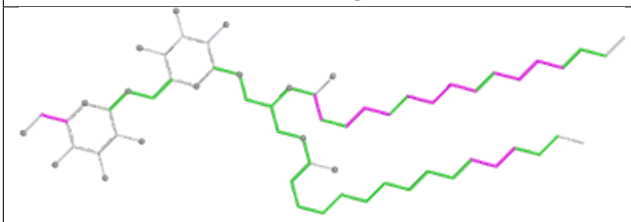

Torsions

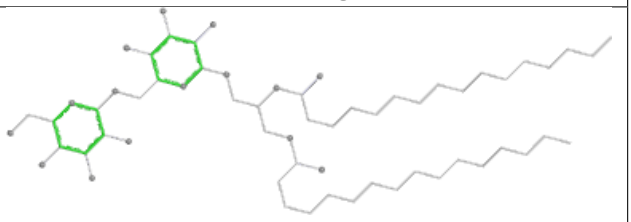

Rings

Ligand DGD h 702

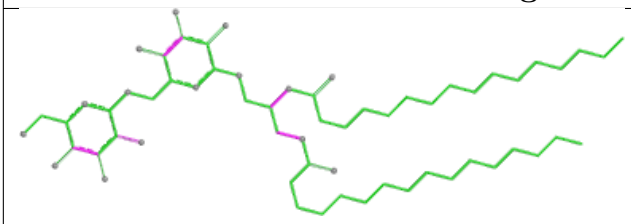

Bond lengths

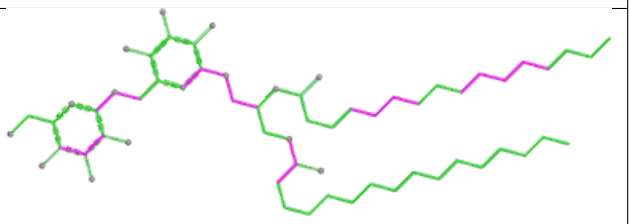

Bond angles

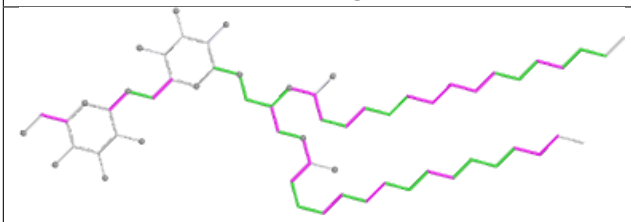

Torsions

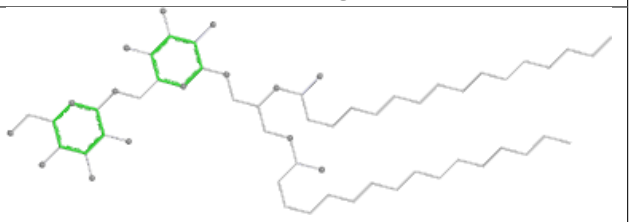

Rings

Ligand DGD C 517


Bond lengths

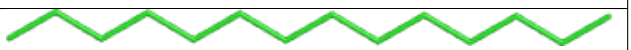

Bond angles


Torsions

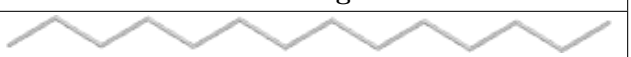

Rings

Ligand STE h 703

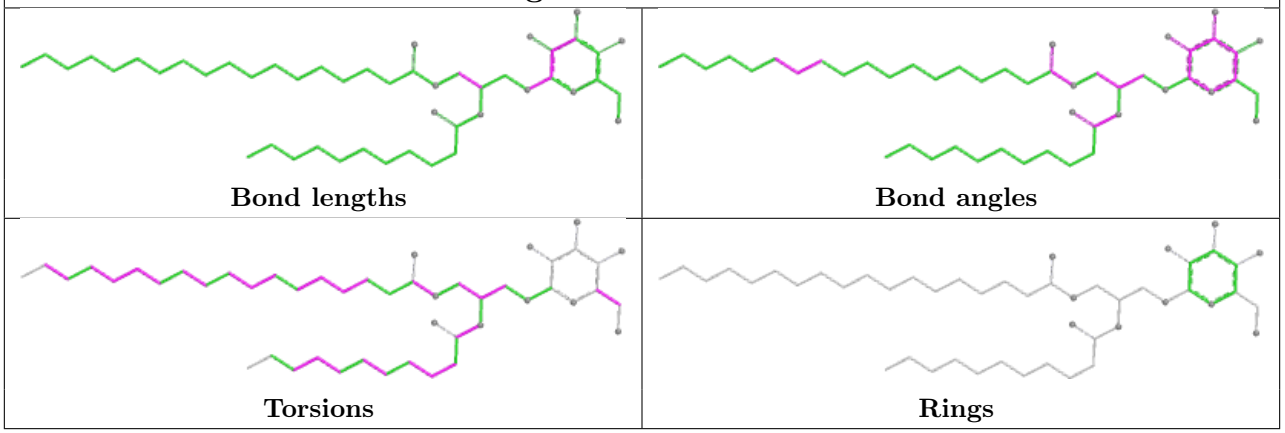

Bond lengths


Bond angles

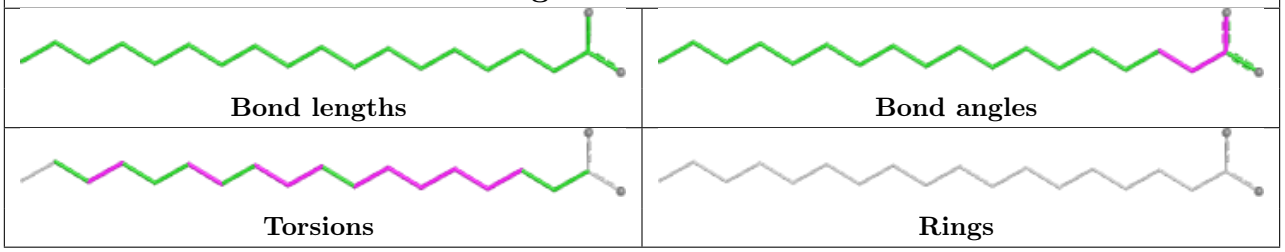

Torsions


Rings

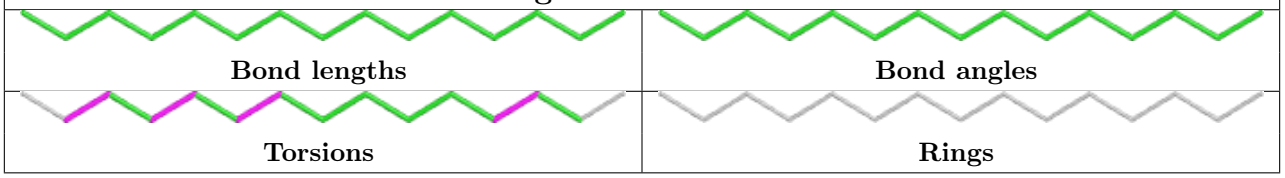
Ligand LMG c 522



Ligand STE b 727



Ligand STE I 101



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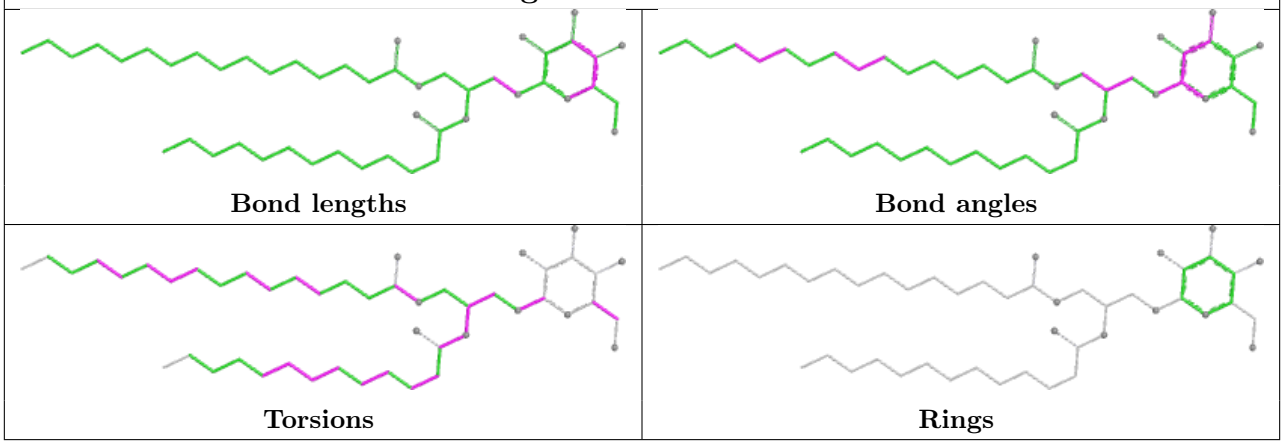
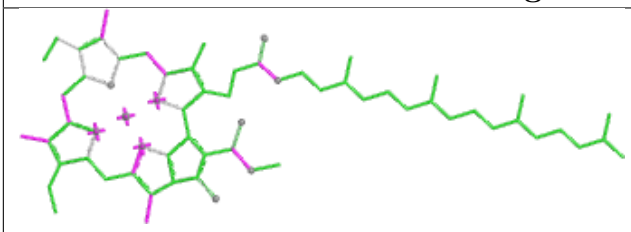
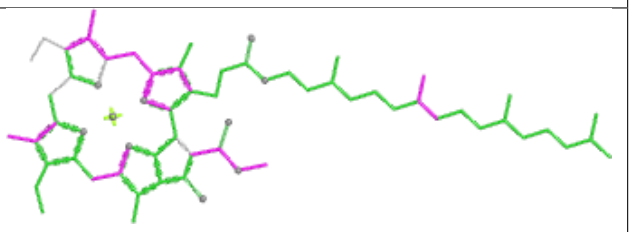


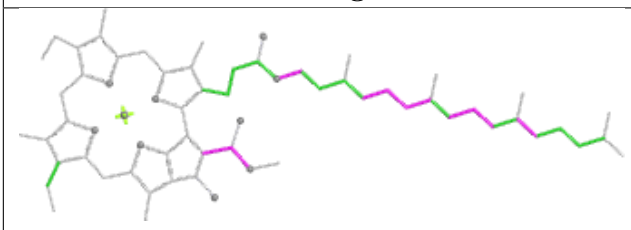
Ligand CLA C 510



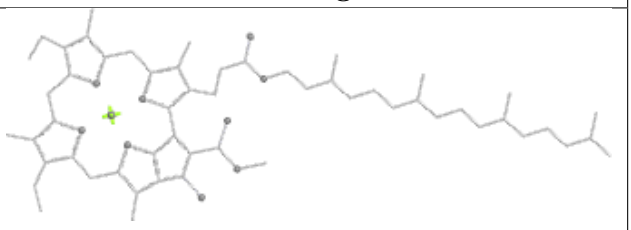
Bond lengths



Bond angles

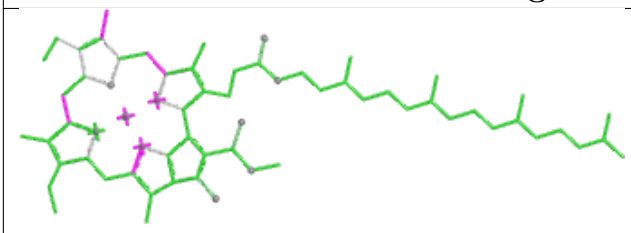


Torsions

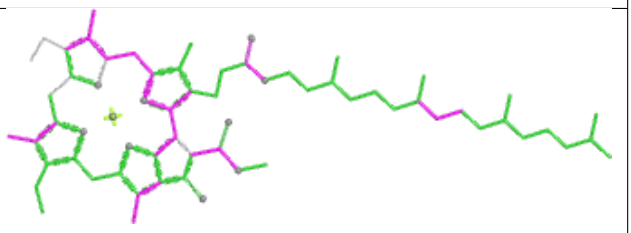


Rings

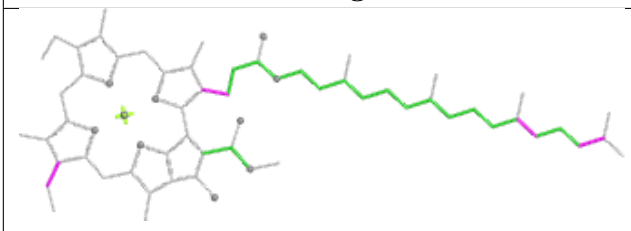
Ligand CLA a 401



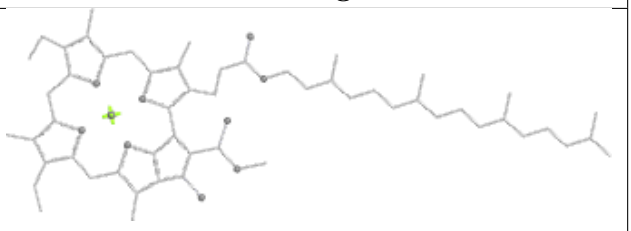
Bond lengths



Bond angles

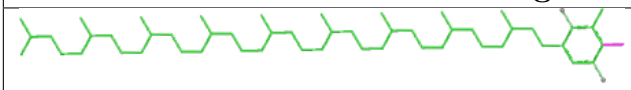


Torsions

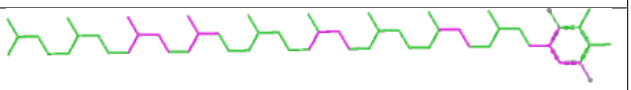


Rings

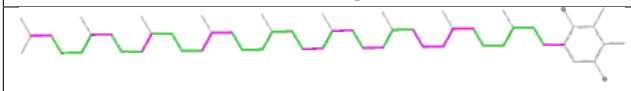
Ligand PL9 a 411



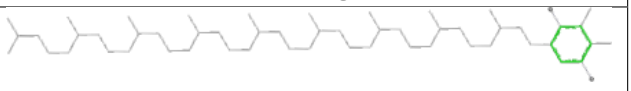
Bond lengths



Bond angles

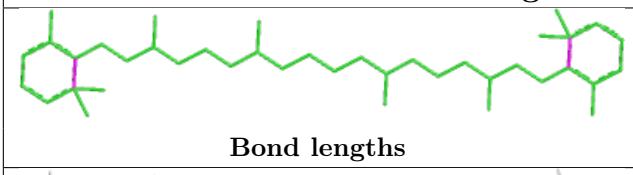


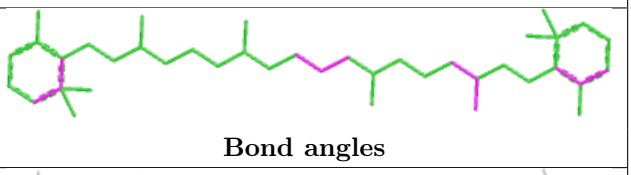
Torsions

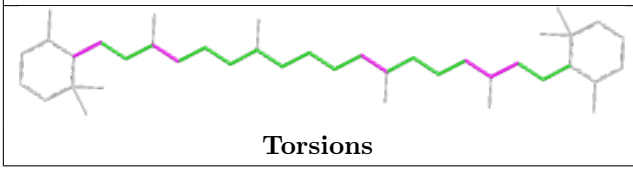


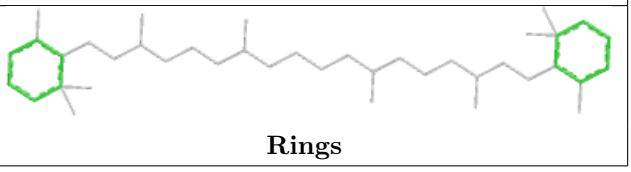
Rings

Ligand BCR Y 101

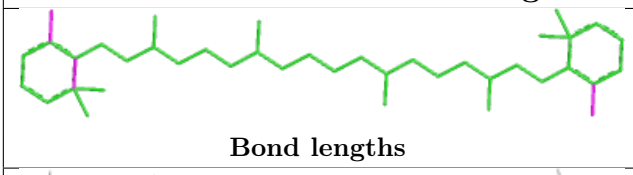

Bond lengths

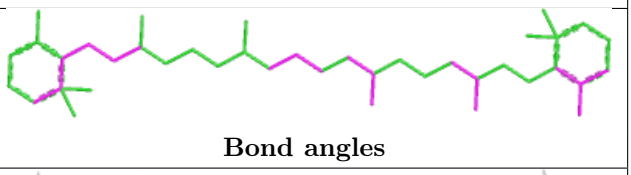

Bond angles

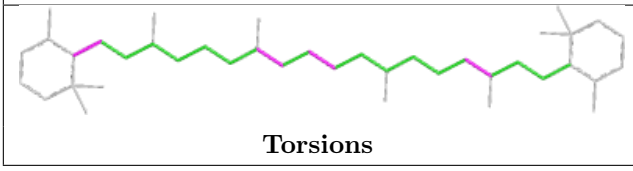

Torsions

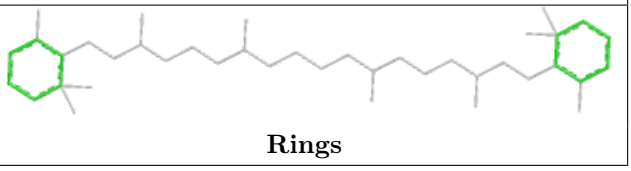

Rings

Ligand BCR A 405

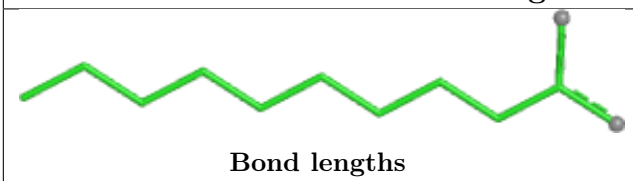

Bond lengths

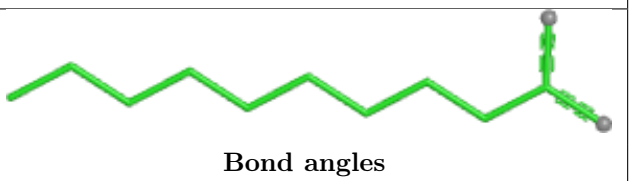

Bond angles

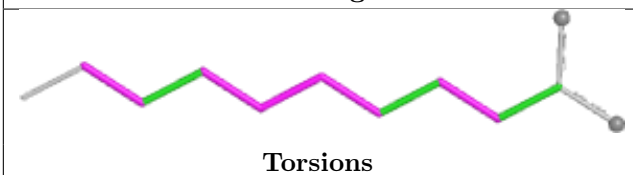

Torsions

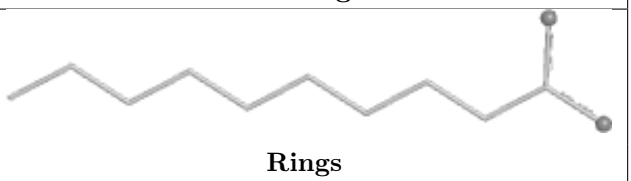

Rings

Ligand STE E 101

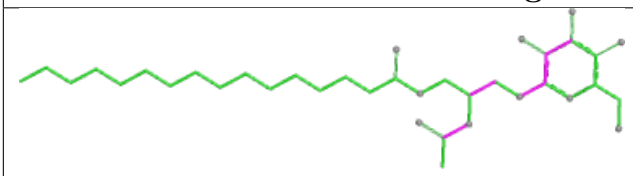

Bond lengths

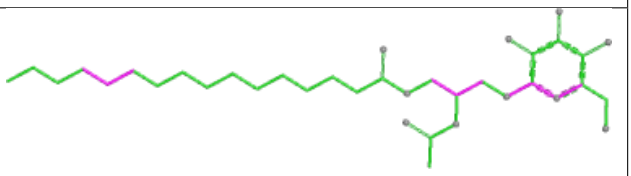

Bond angles

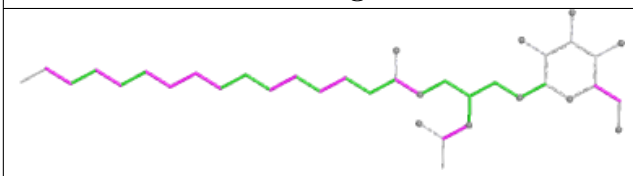

Torsions

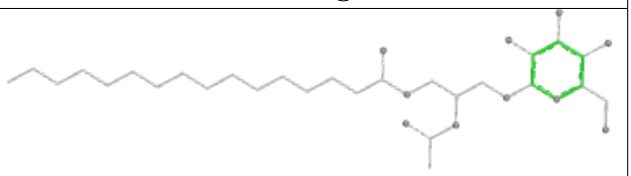

Rings

Ligand LMG c 520

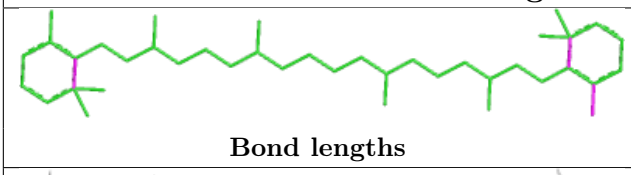

Bond lengths


Bond angles

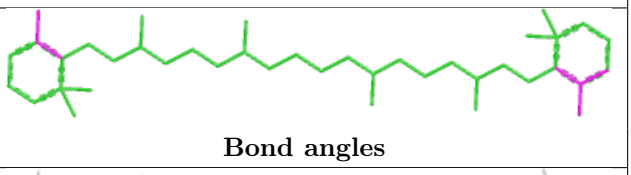

Torsions


Rings

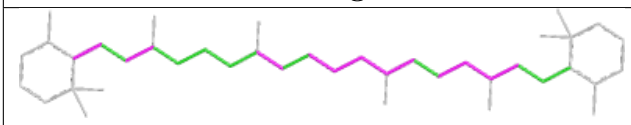
Ligand BCR k 101



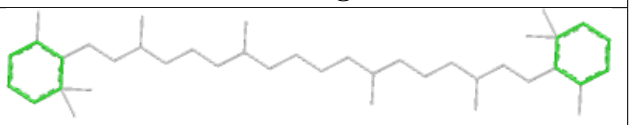
Bond lengths



Bond angles

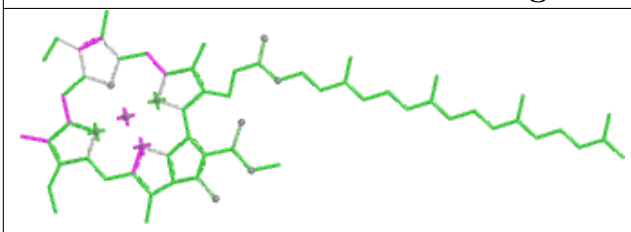


Torsions

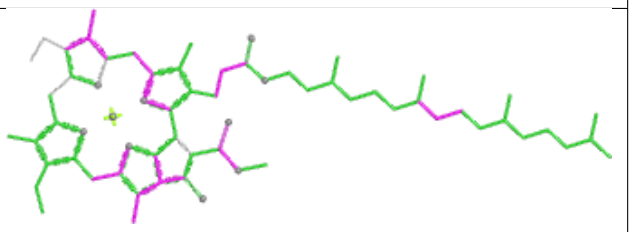


Rings

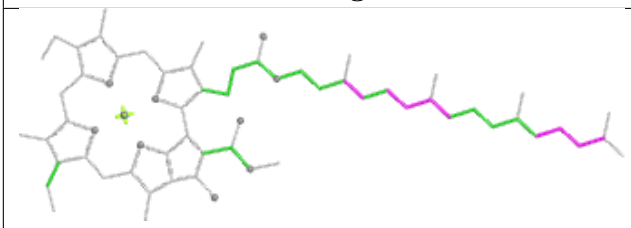
Ligand CLA c 506



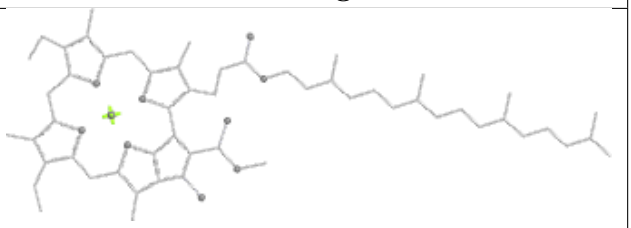
Bond lengths



Bond angles

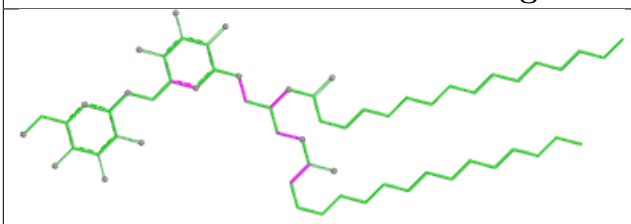


Torsions

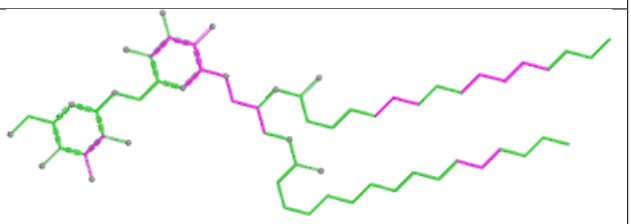


Rings

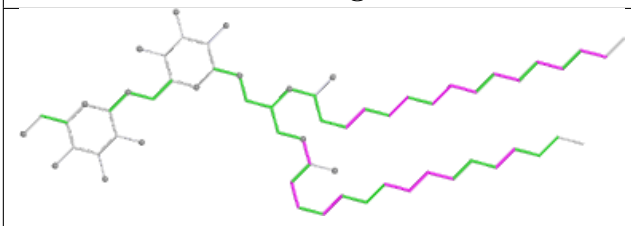
Ligand DGD C 519



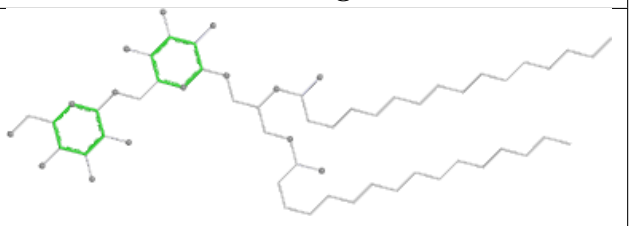
Bond lengths



Bond angles

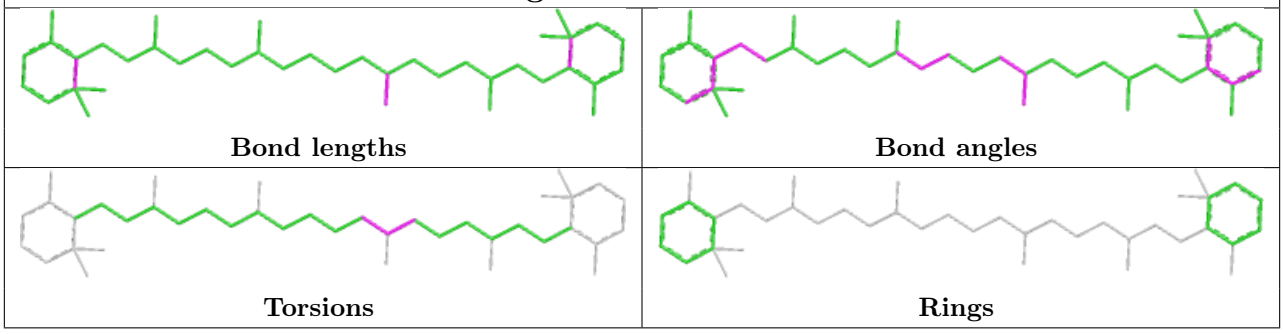


Torsions

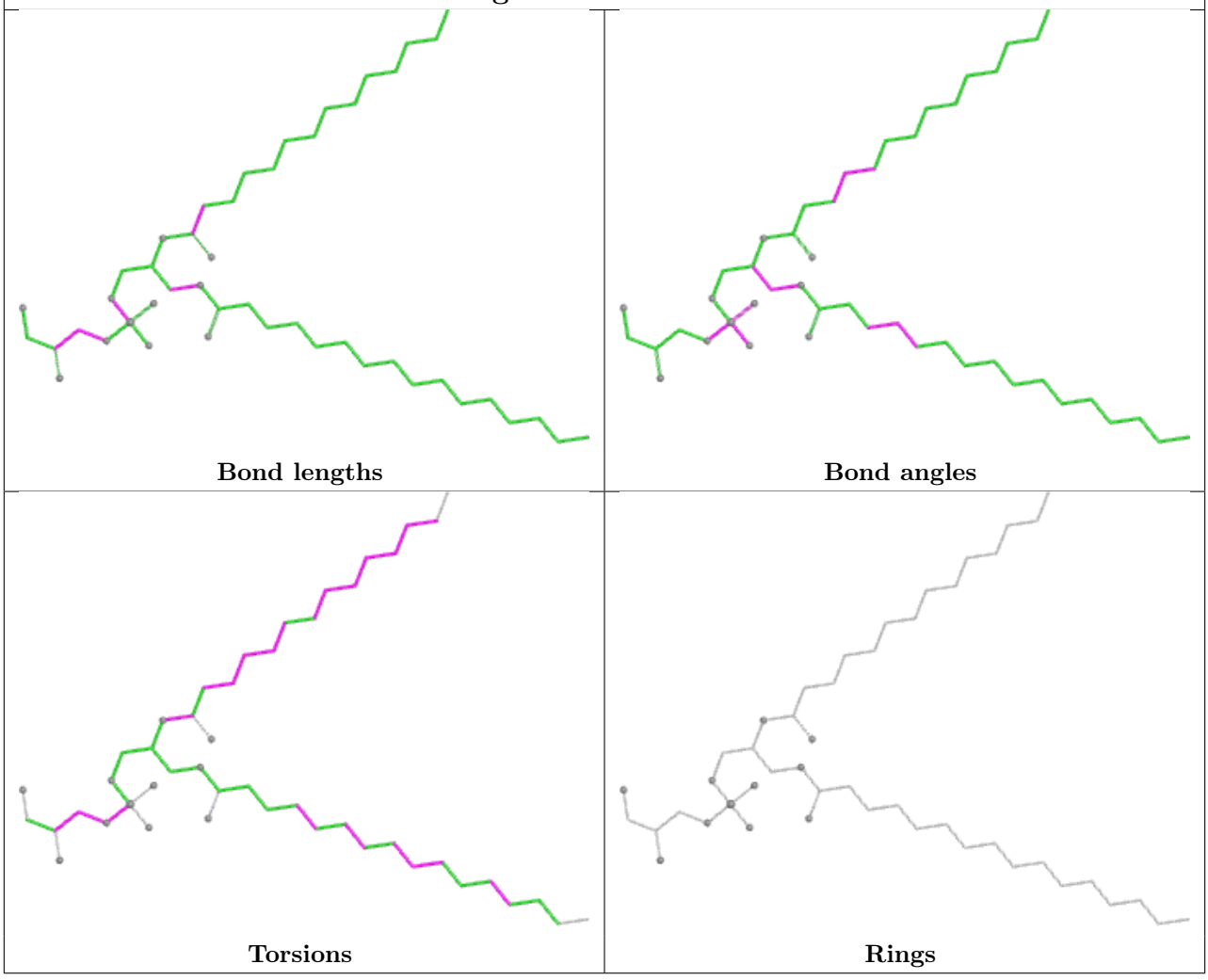


Rings

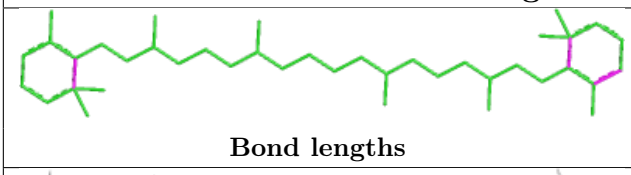
Ligand BCR b 718

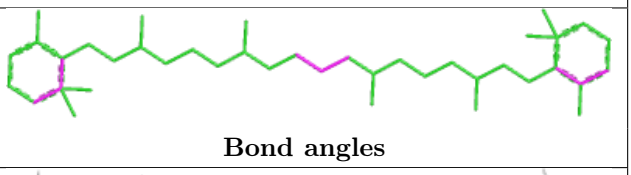


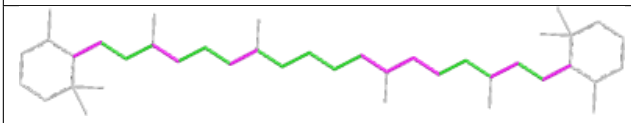
Ligand LHG D 411

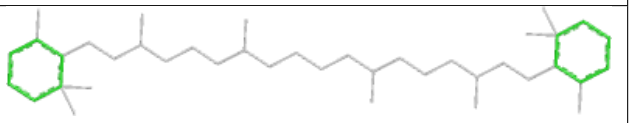


Ligand BCR C 501


Bond lengths


Bond angles

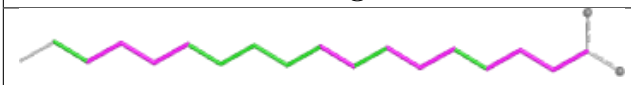

Torsions


Rings

Ligand STE b 722

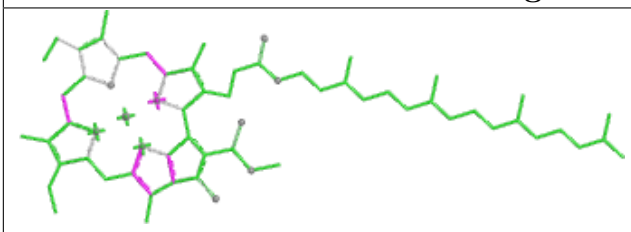

Bond lengths

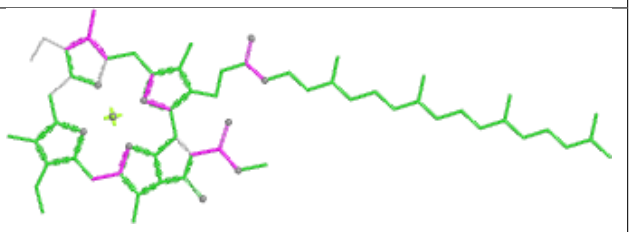

Bond angles

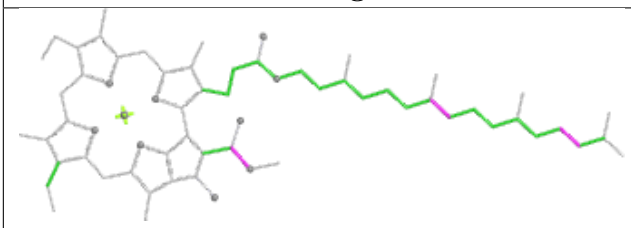

Torsions

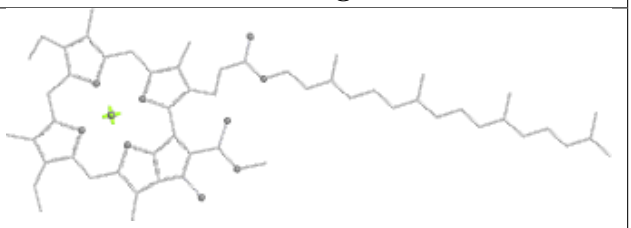

Rings

Ligand CLA C 509


Bond lengths

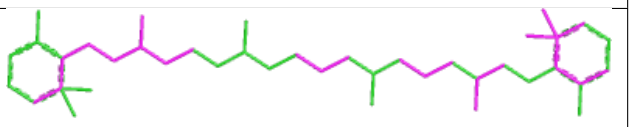

Bond angles

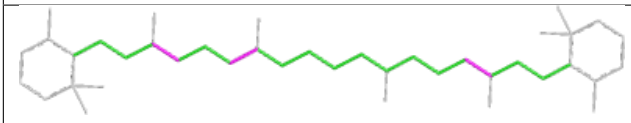

Torsions

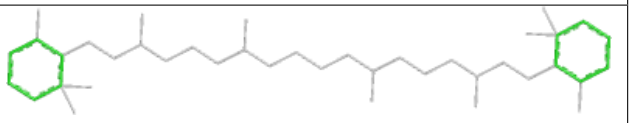

Rings

Ligand BCR a 407

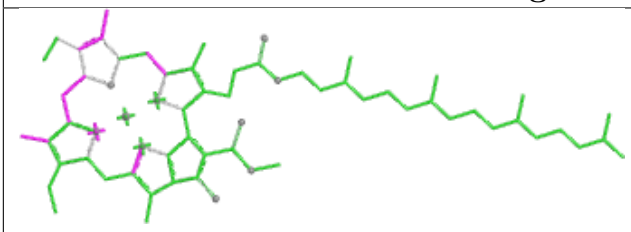

Bond lengths


Bond angles

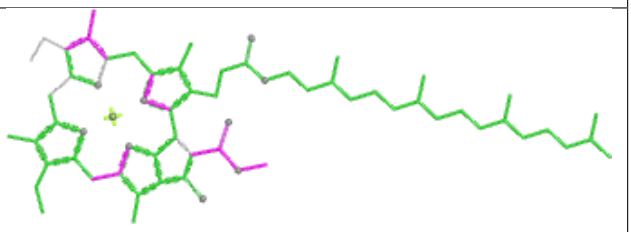

Torsions


Rings

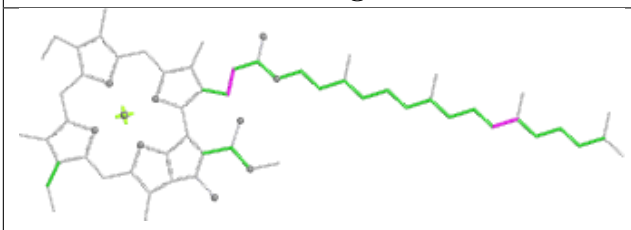
Ligand CLA c 502



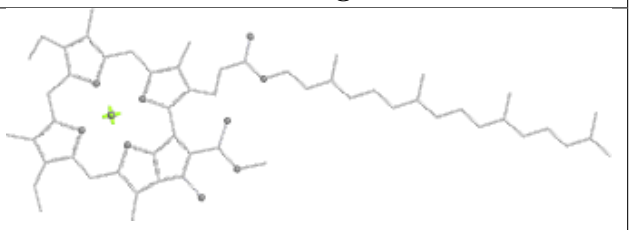
Bond lengths



Bond angles



Torsions

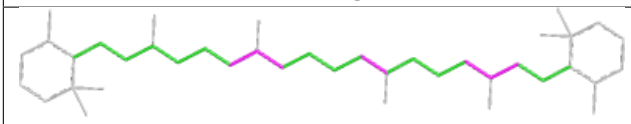


Rings

Ligand BCR b 719

Bond lengths

Bond angles



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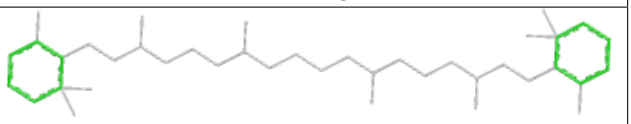
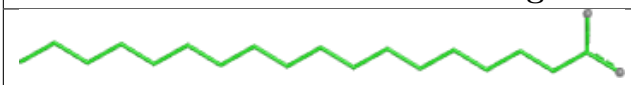
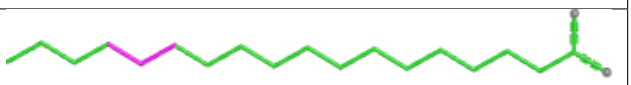


Rings

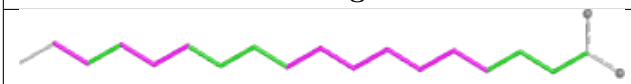
Ligand STE X 101



Bond lengths



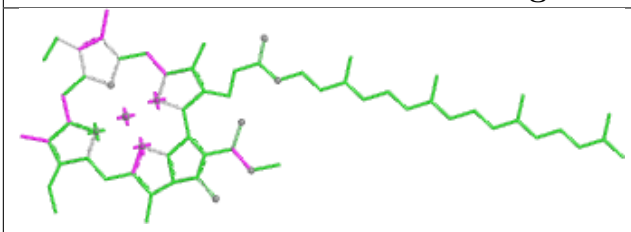
Bond angles

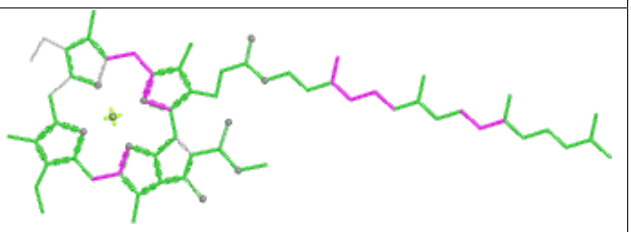


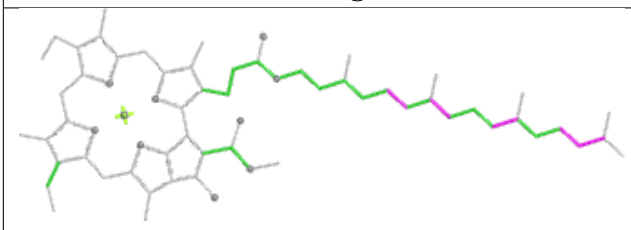
Torsions

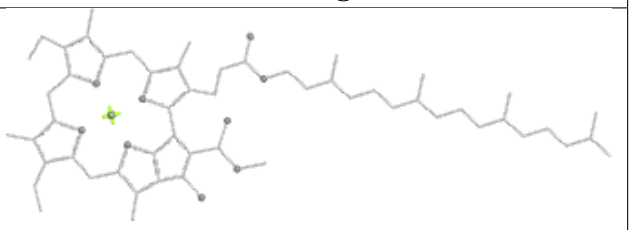
Rings

Ligand CLA c 504

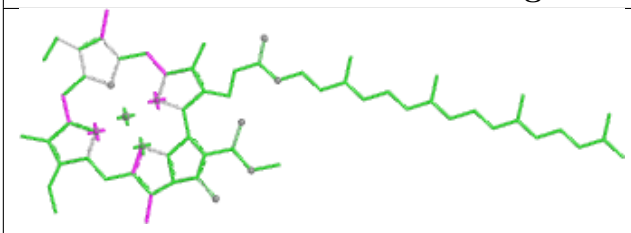

Bond lengths

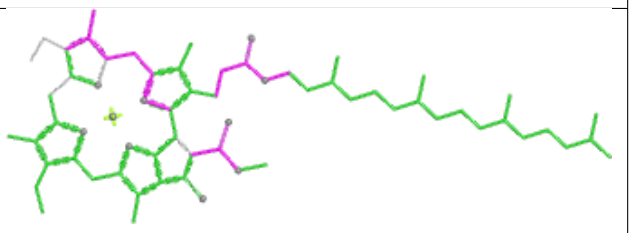

Bond angles

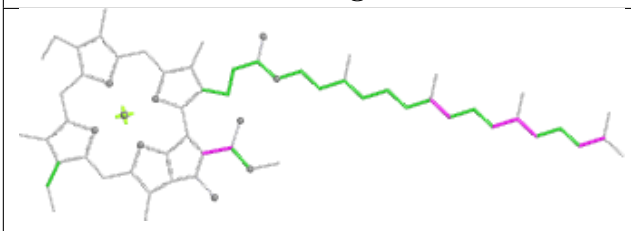

Torsions

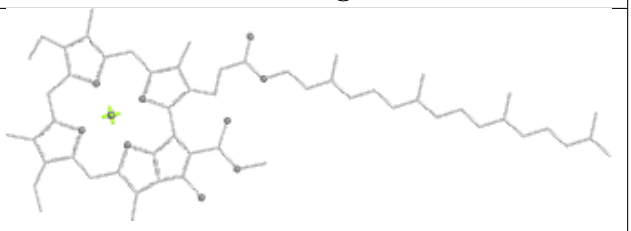

Rings

Ligand CLA C 508


Bond lengths

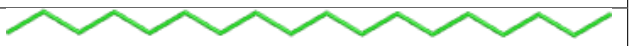

Bond angles


Torsions

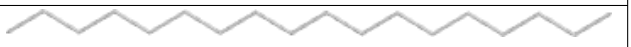

Rings

Ligand STE l 102

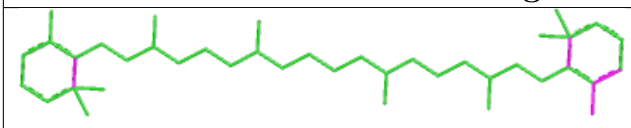

Bond lengths

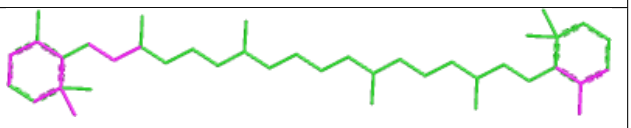

Bond angles


Torsions

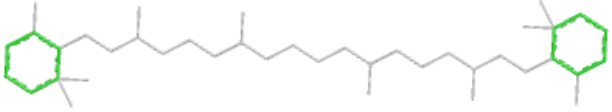

Rings

Ligand BCR T 701

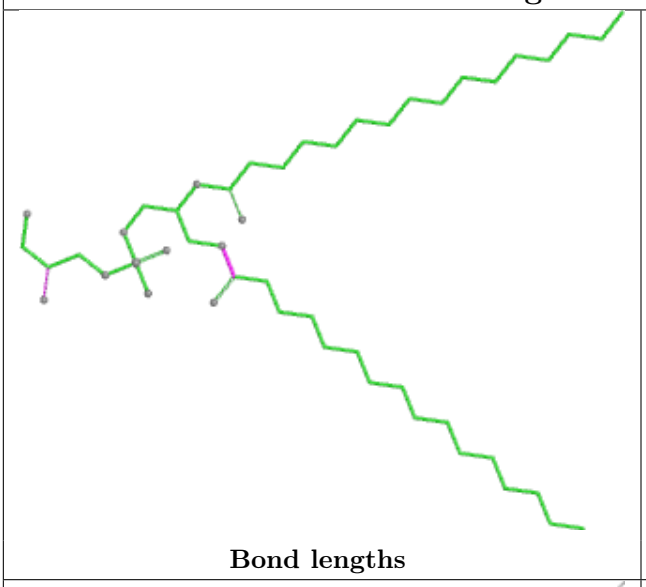

Bond lengths


Bond angles

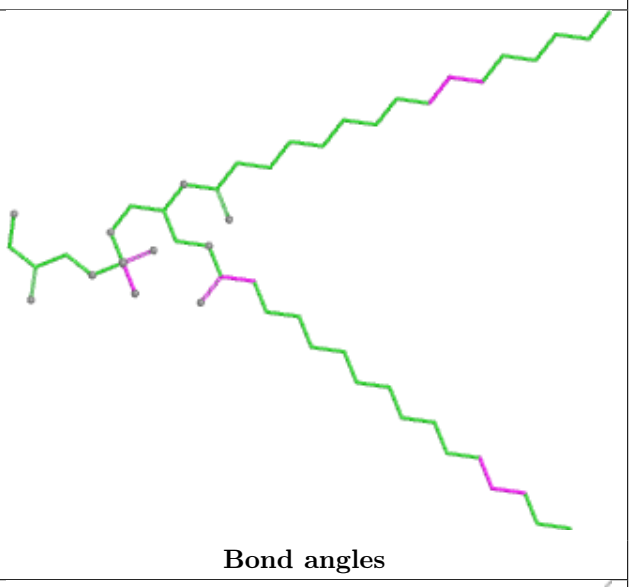

Torsions


Rings

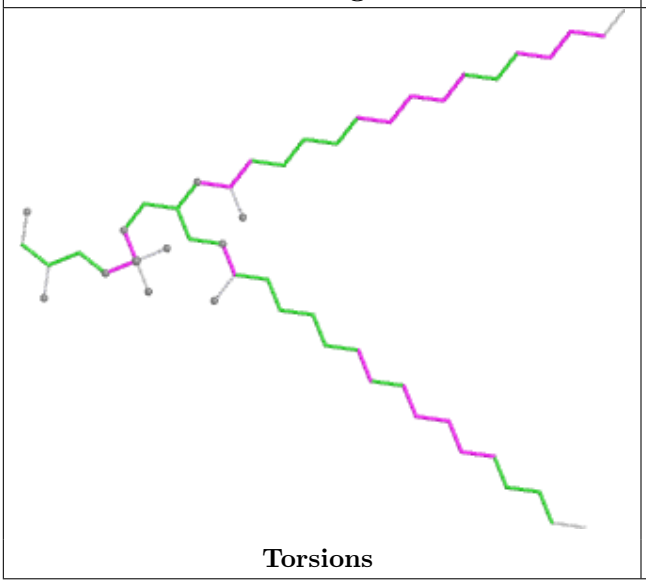
Ligand LHG L 101



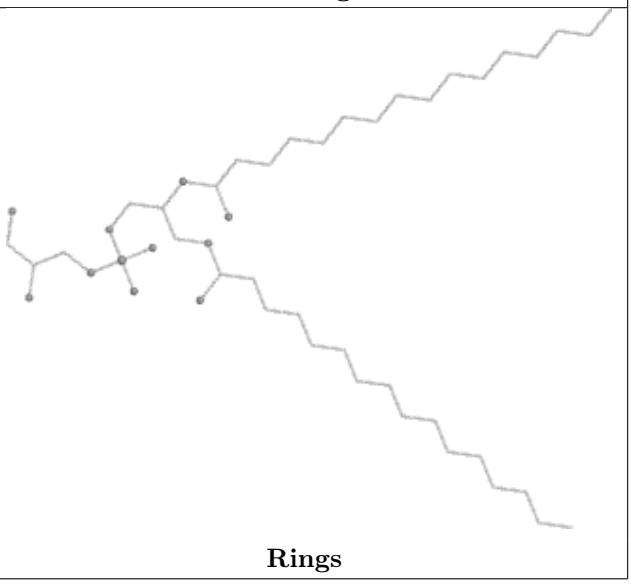
Bond lengths



Bond angles

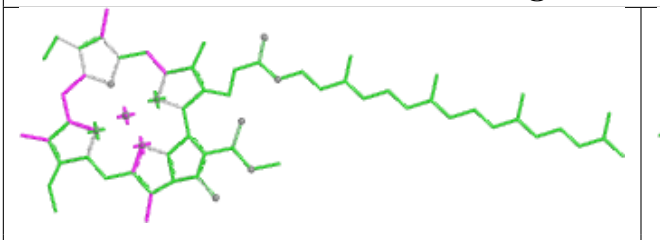


Torsions

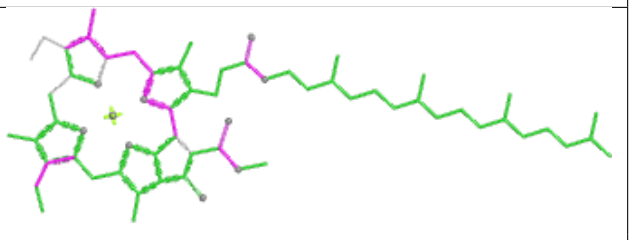


Rings

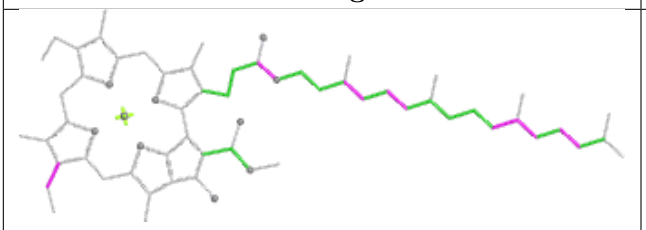
Ligand CLA a 406



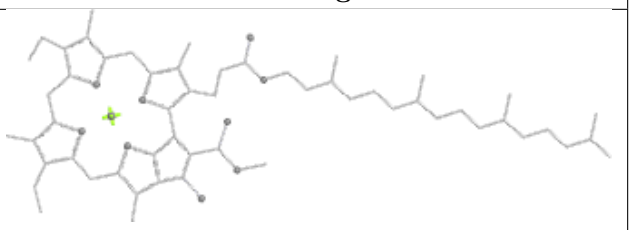
Bond lengths



Bond angles

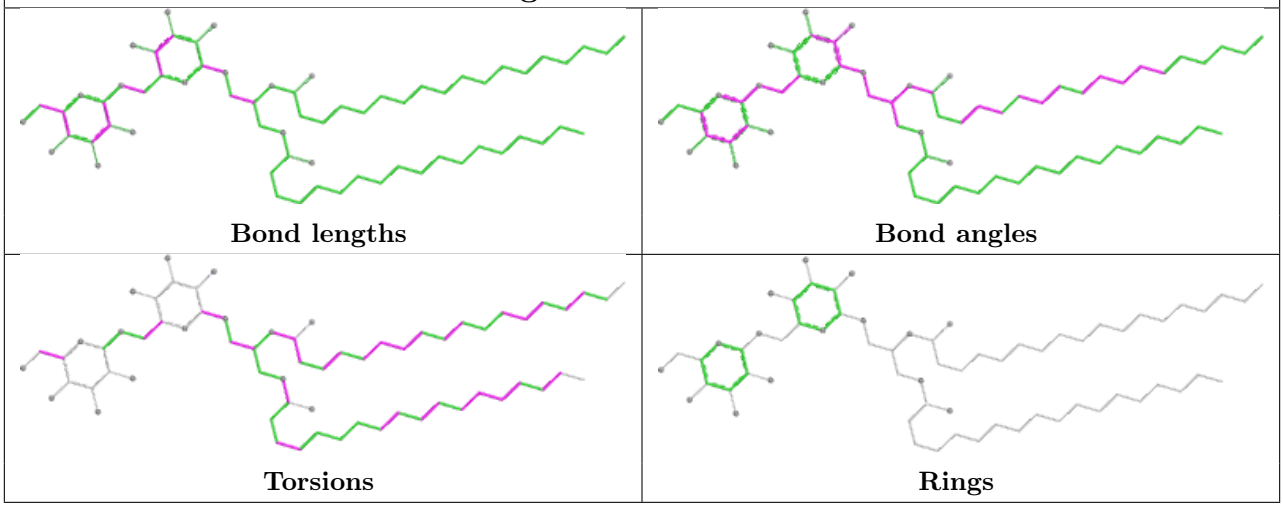


Torsions

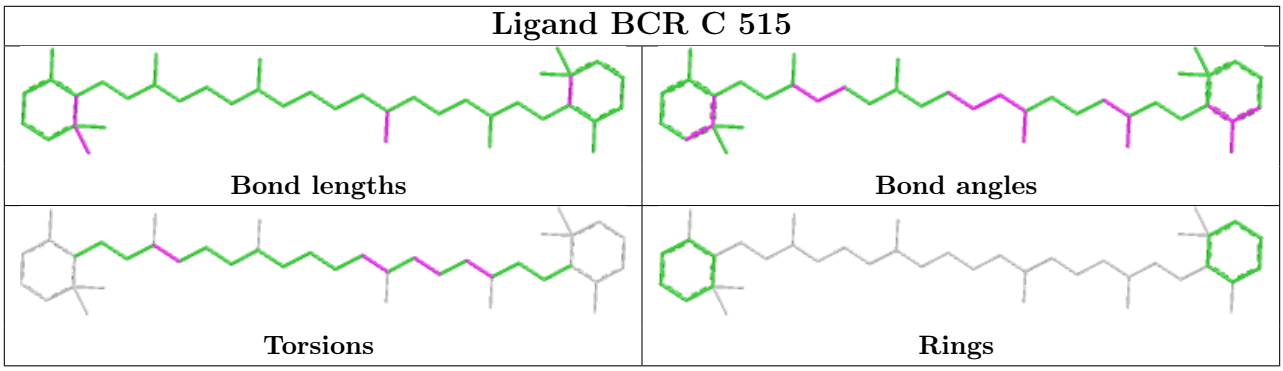


Rings

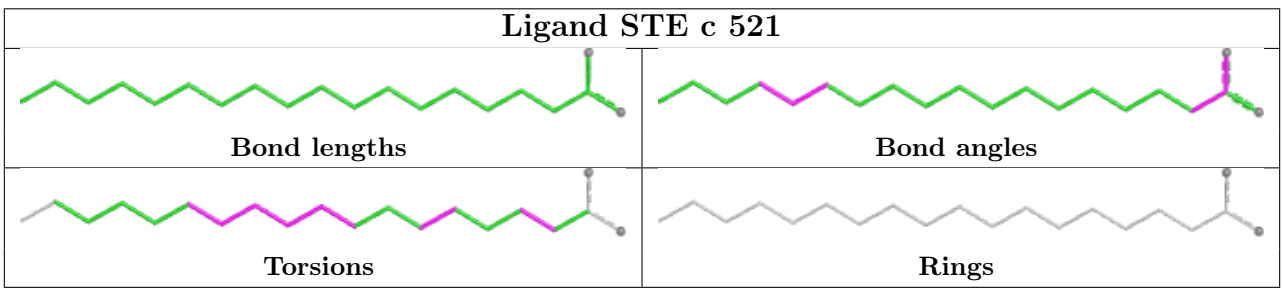
Ligand DGD A 413



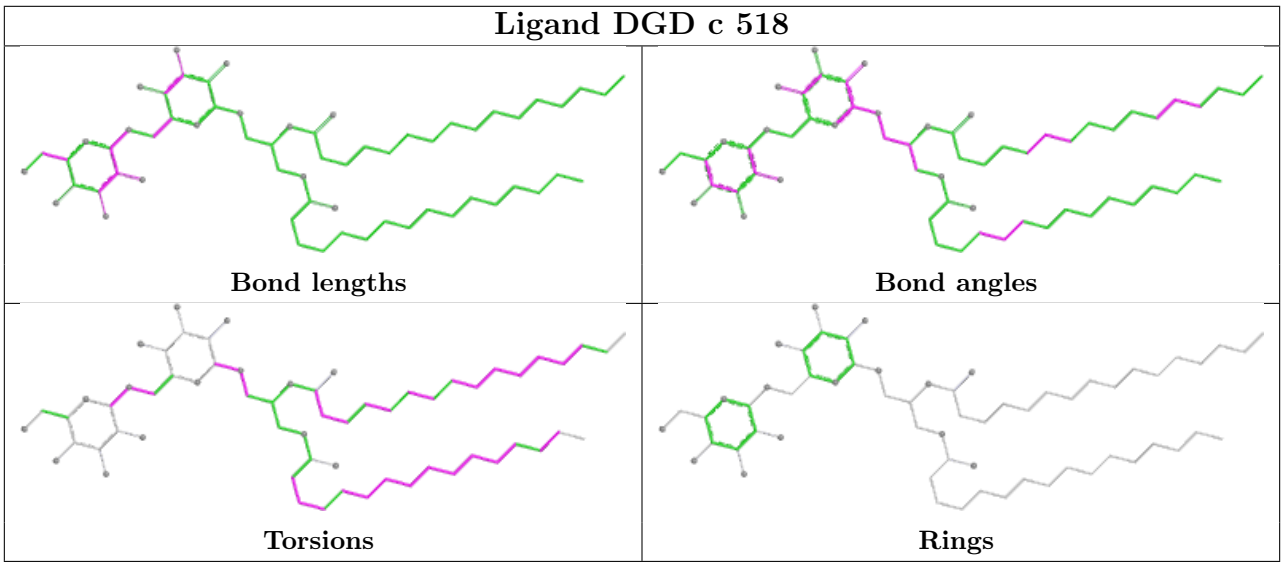
Ligand BCR C 515



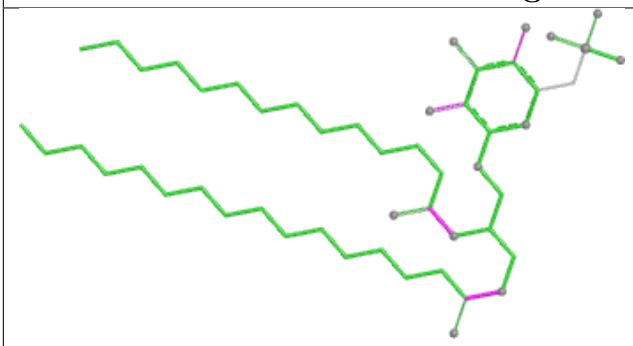
Ligand STE c 521

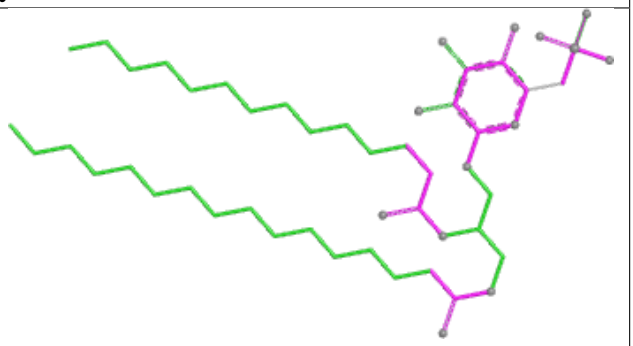


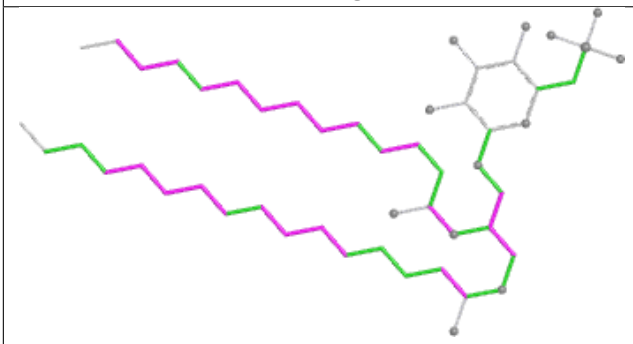
Ligand DGD c 518

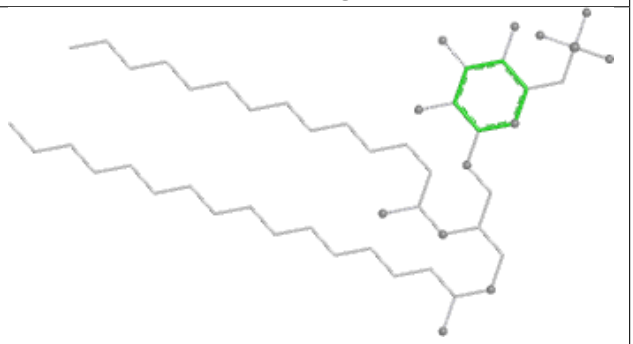


Ligand SQD A 409


Bond lengths

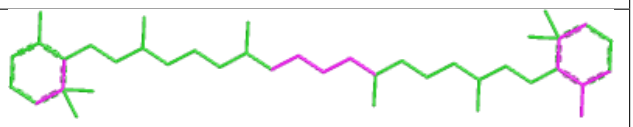

Bond angles

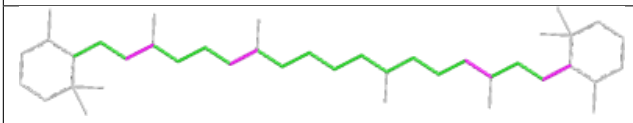

Torsions

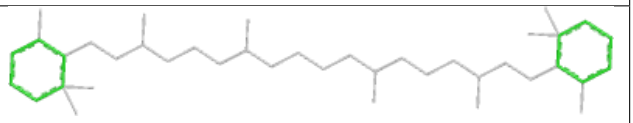

Rings

Ligand BCR H 101

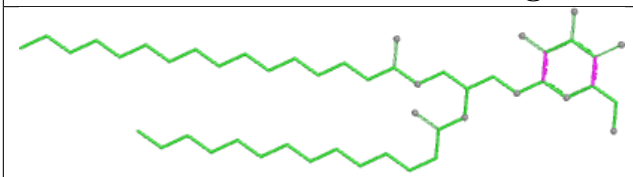

Bond lengths

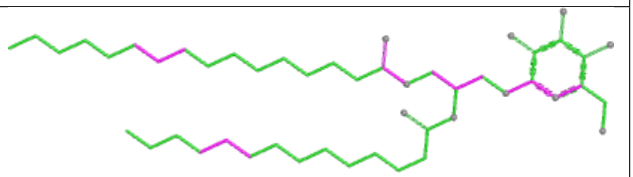

Bond angles

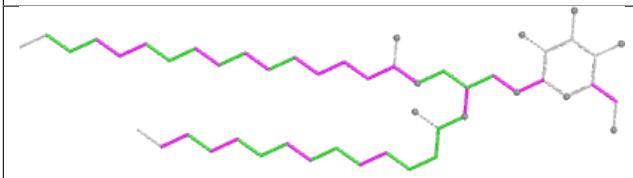

Torsions

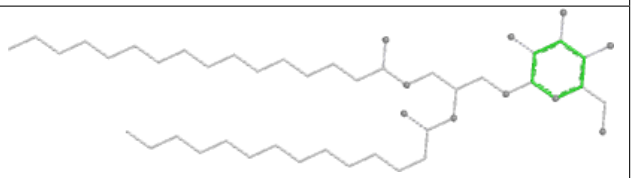

Rings

Ligand LMG c 523

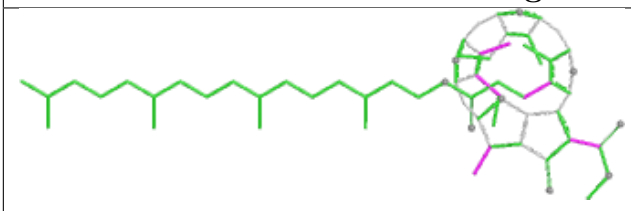

Bond lengths


Bond angles

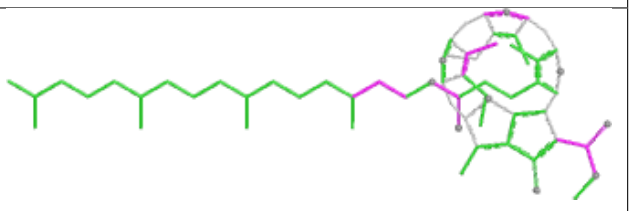

Torsions


Rings

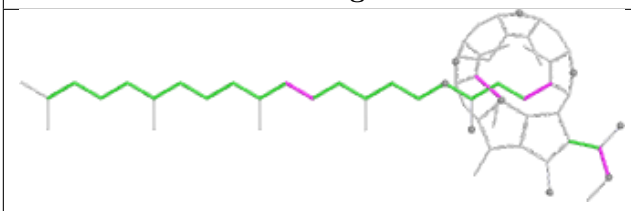
Ligand PHO d 405



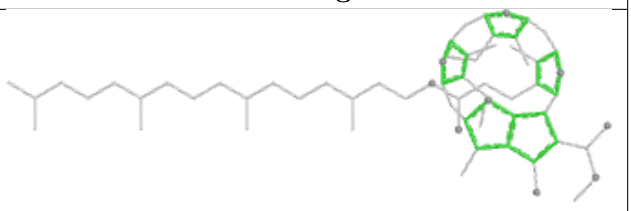
Bond lengths



Bond angles

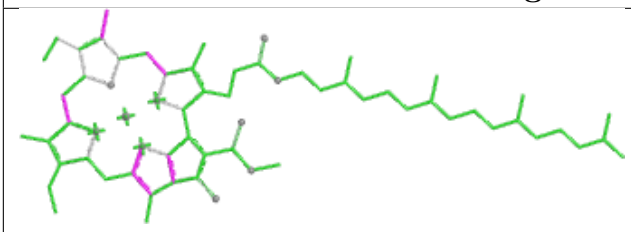


Torsions

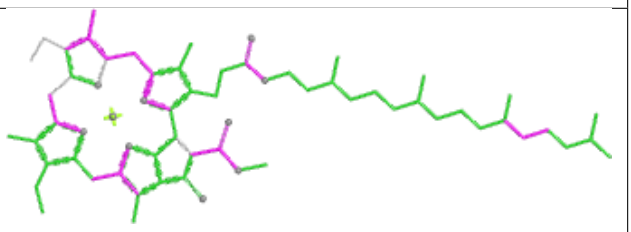


Rings

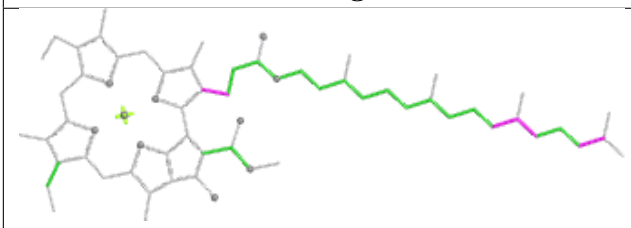
Ligand CLA B 702



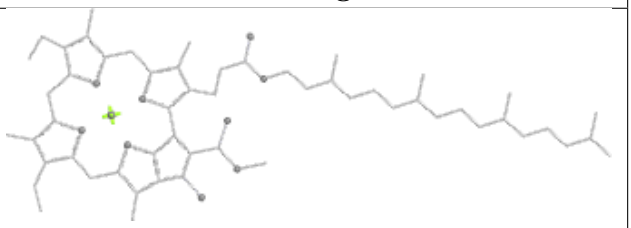
Bond lengths



Bond angles

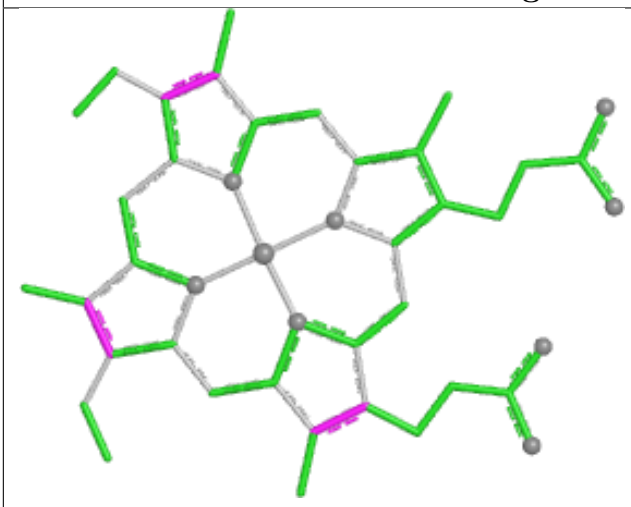


Torsions

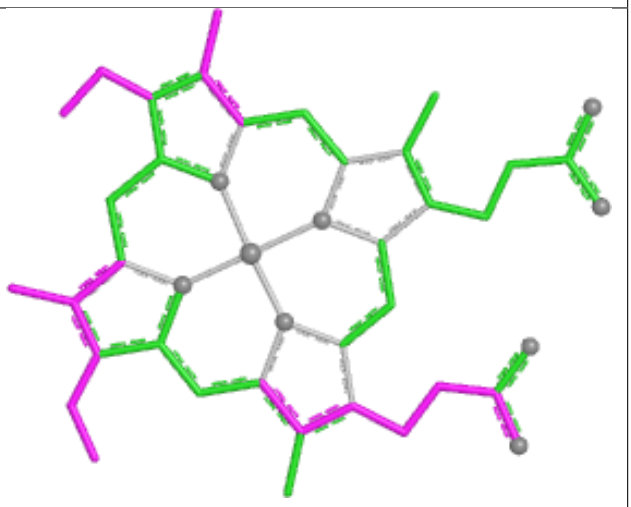


Rings

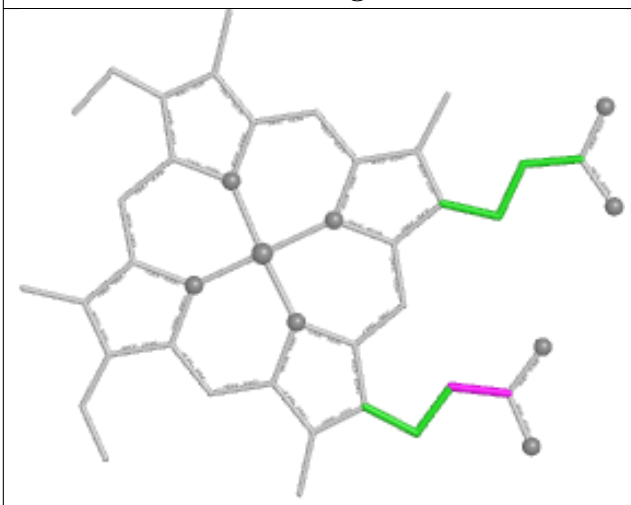
Ligand HEC V 201



Bond lengths



Bond angles



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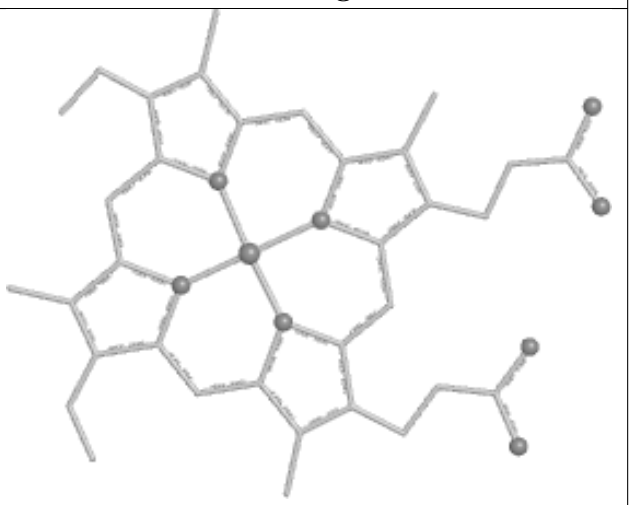
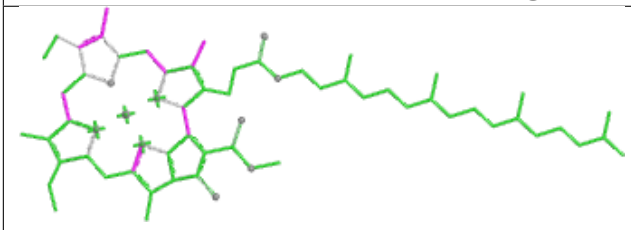


Rings

Ligand CLA B 710



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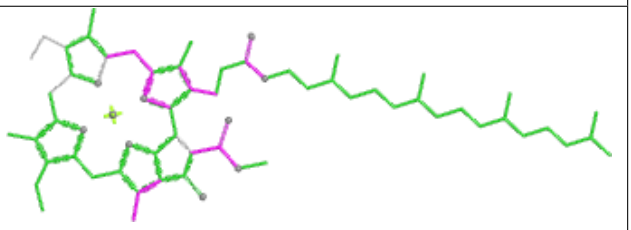
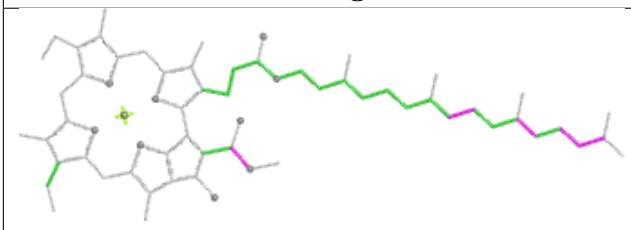
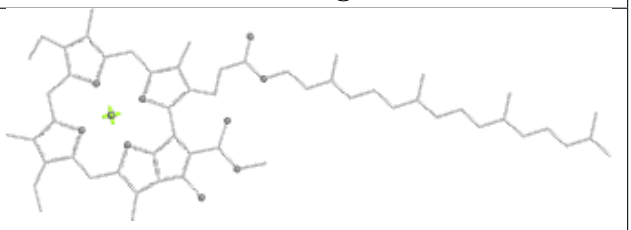


Bond angles

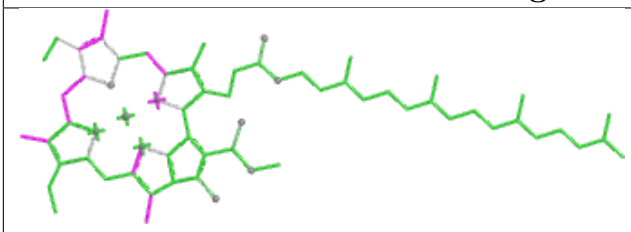


Torsions

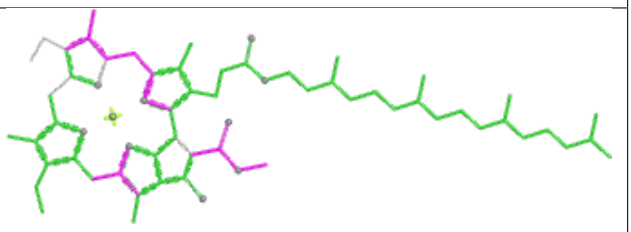


Rings

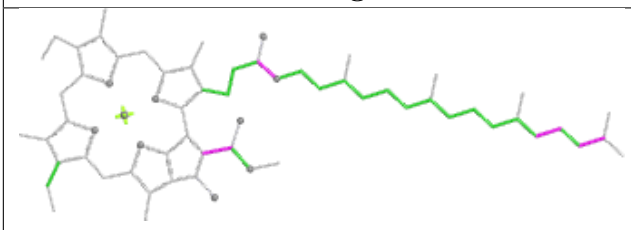
Ligand CLA c 503



Bond lengths



Bond angles



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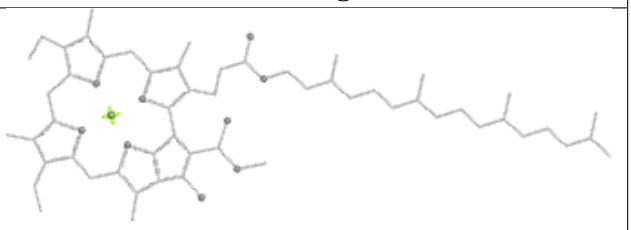
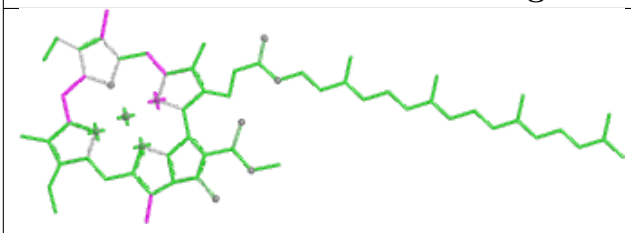
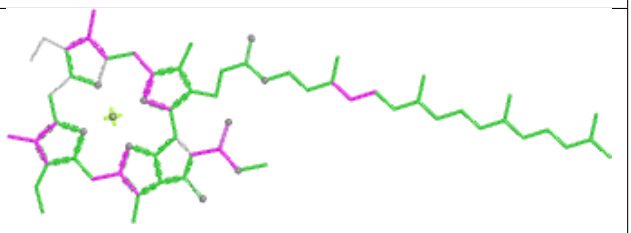


Rings

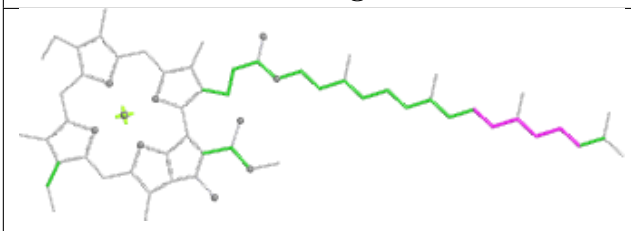
Ligand CLA b 711



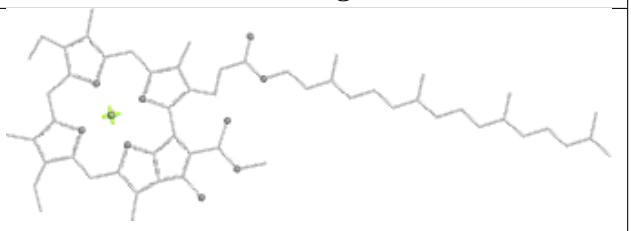
Bond lengths



Bond angles

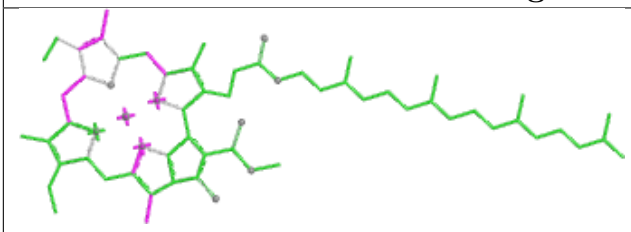


Torsions

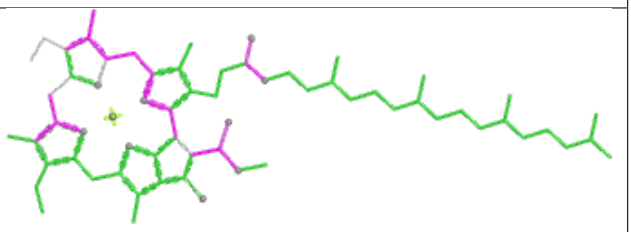


Rings

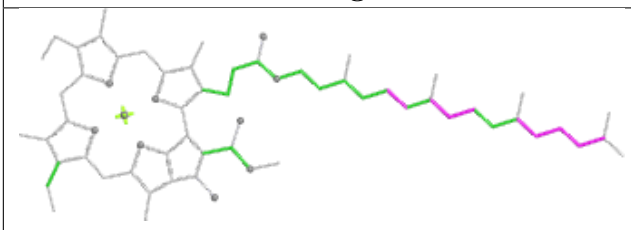
Ligand CLA b 715



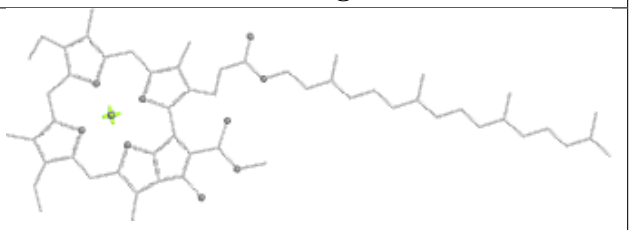
Bond lengths



Bond angles

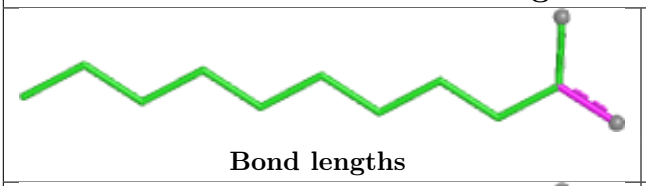


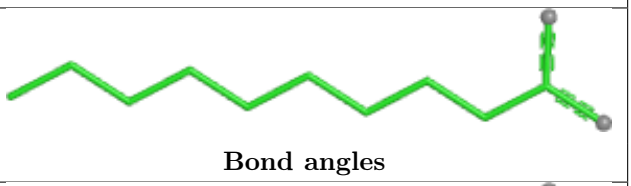
Torsions

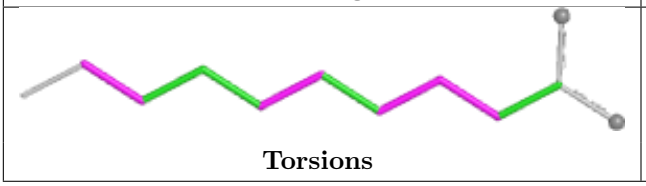


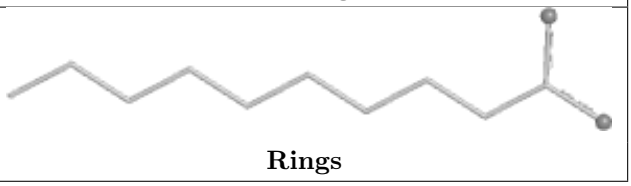
Rings

Ligand STE a 417

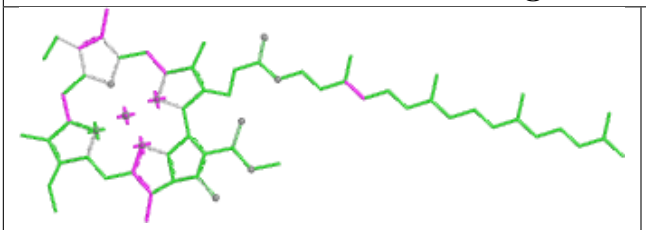

Bond lengths


Bond angles


Torsions


Rings

Ligand CLA C 513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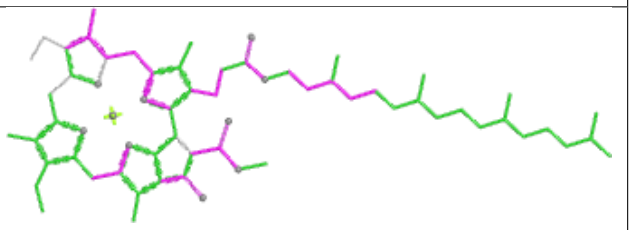
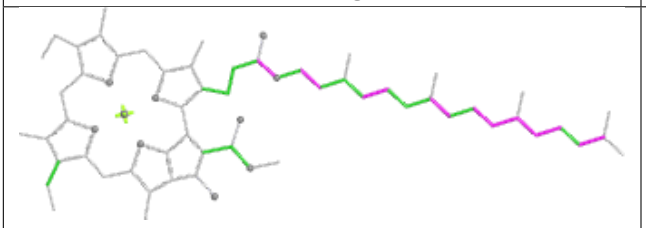
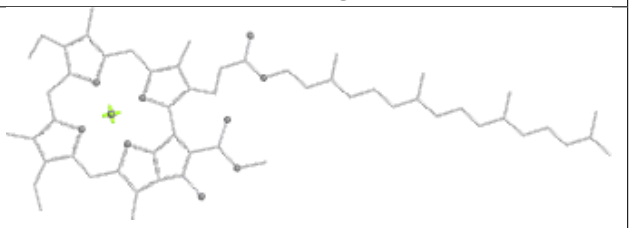
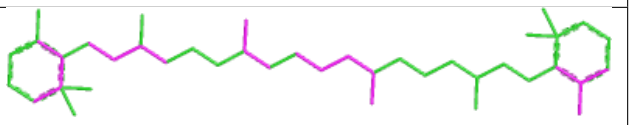

Bond angles

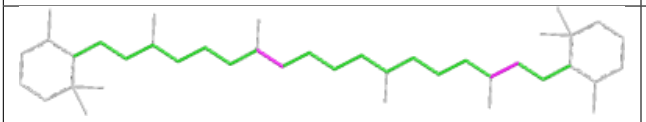

Torsions

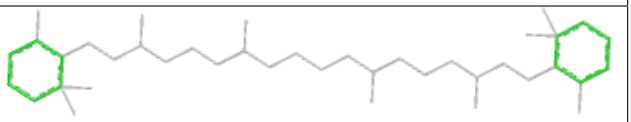

Rings

Ligand BCR c 516

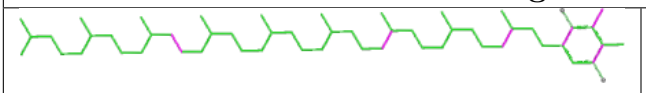

Bond lengths

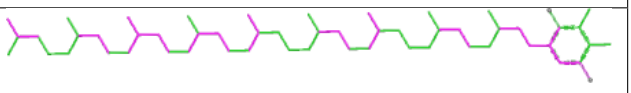

Bond angles

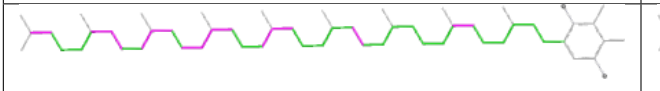

Torsions

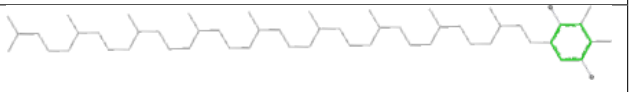

Rings

Ligand PL9 D 405

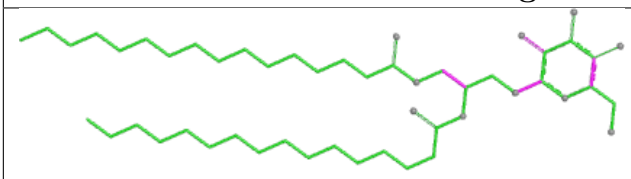

Bond lengths


Bond angles

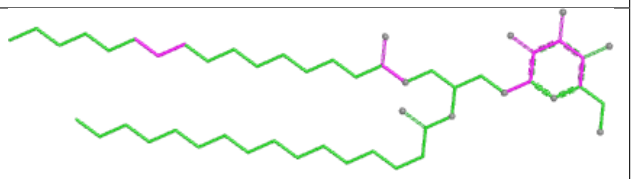

Torsions


Rings

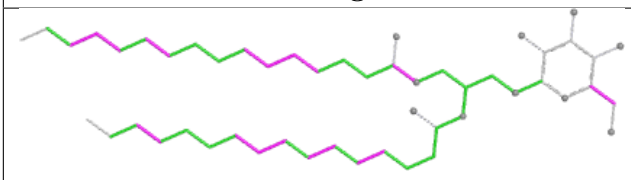
Ligand LMG D 408



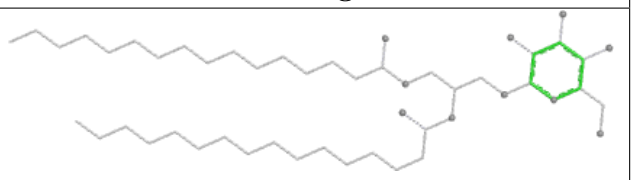
Bond lengths



Bond angles

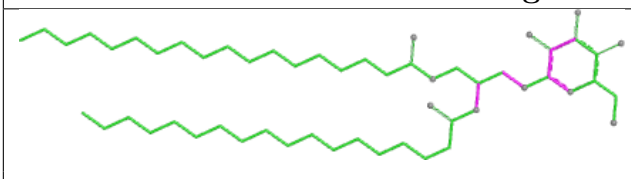


Torsions

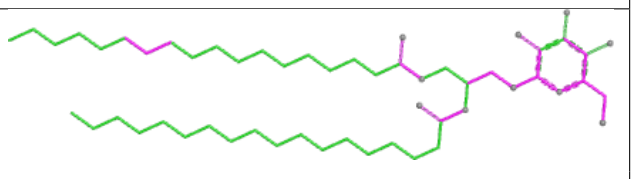


Rings

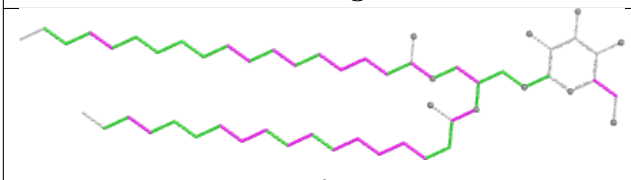
Ligand LMG b 723



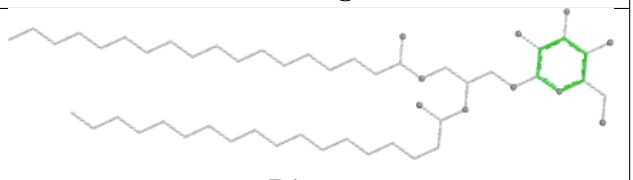
Bond lengths



Bond angles

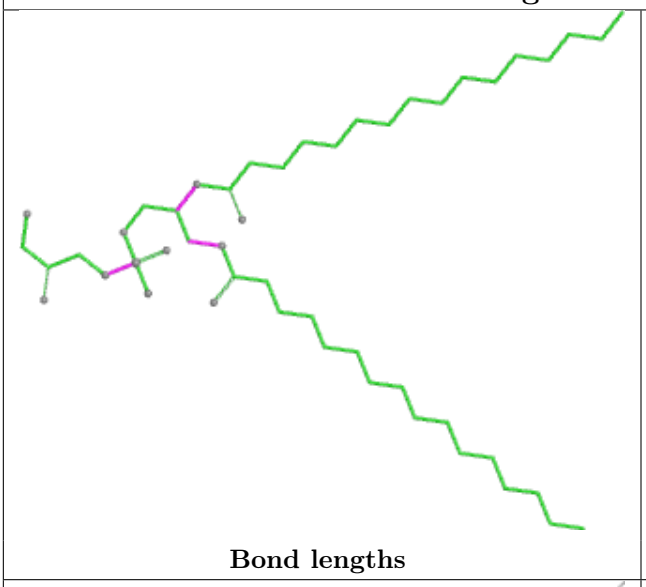


Torsions

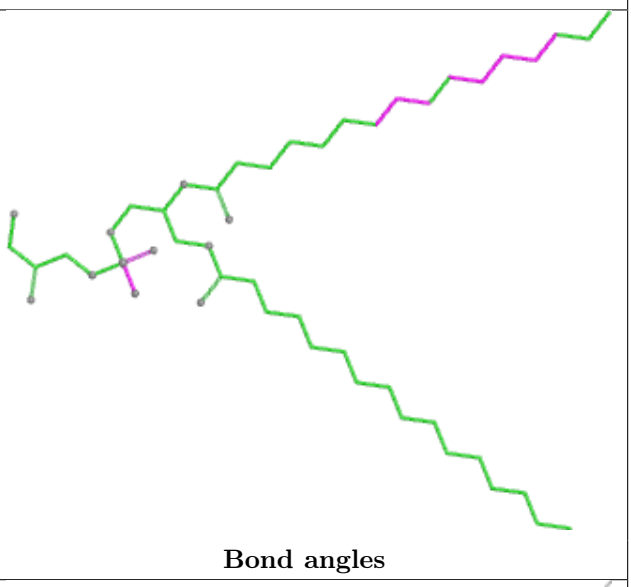


Rings

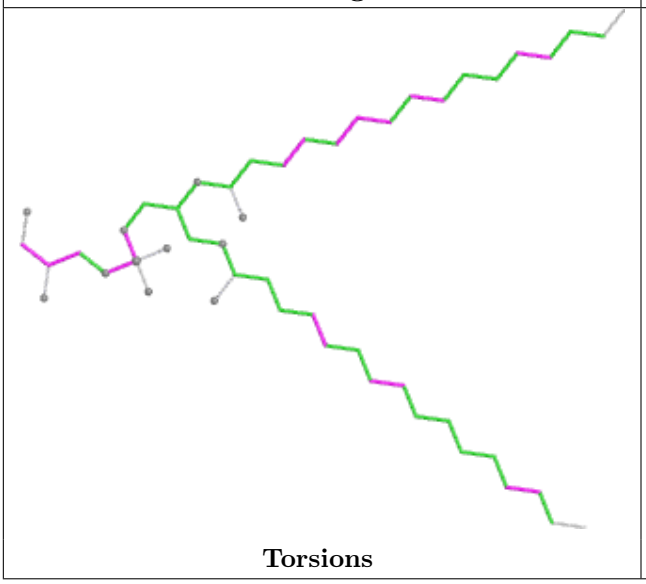
Ligand LHG D 410



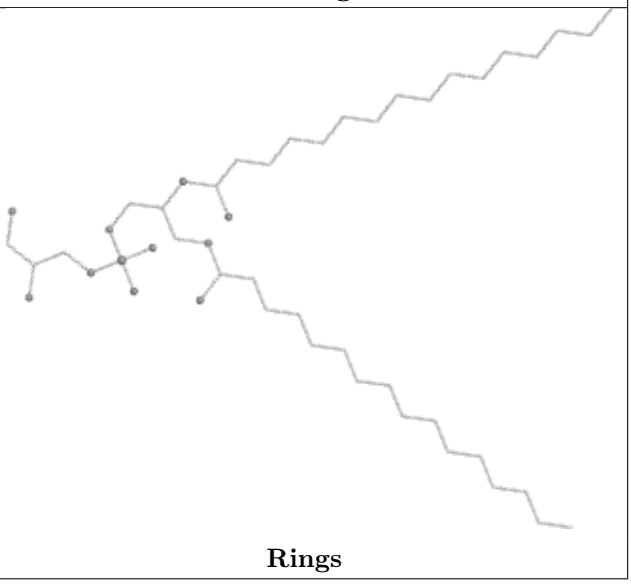
Bond lengths



Bond angles



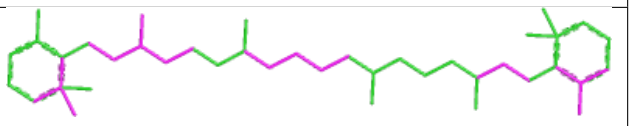
Torsions



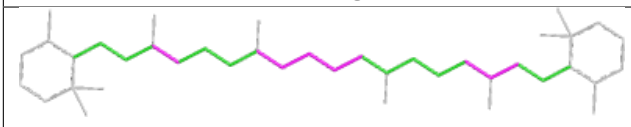
Rings

Ligand BCR K 101

Bond lengths



Bond angles



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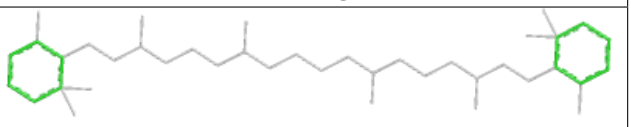
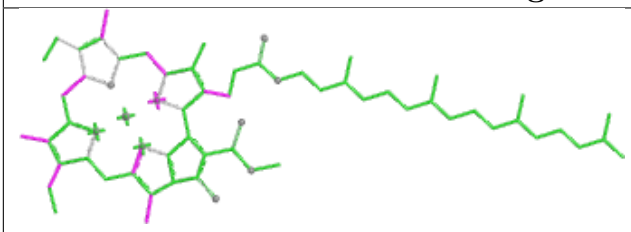
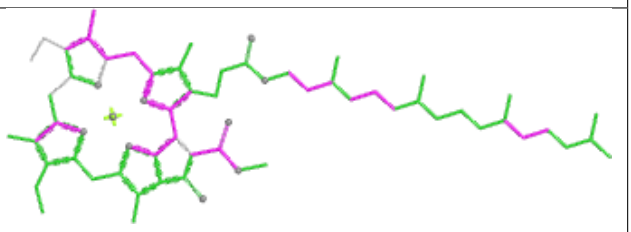


Rings

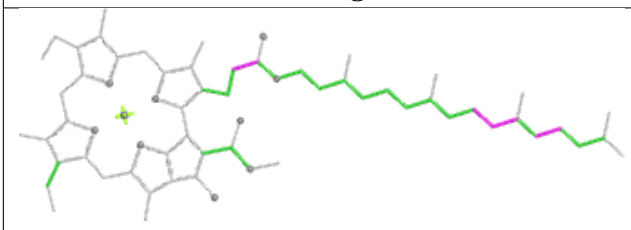
Ligand CLA b 713



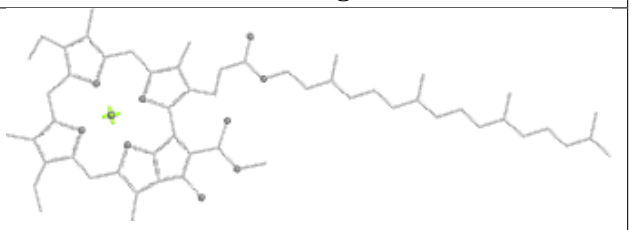
Bond lengths



Bond angles



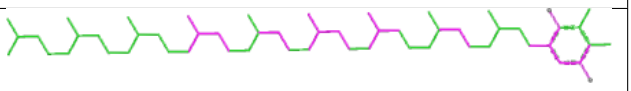
Torsions



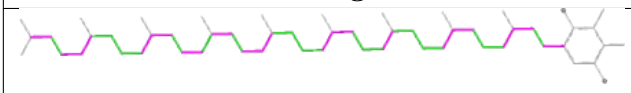
Rings

Ligand PL9 A 408

Bond lengths



Bond angles



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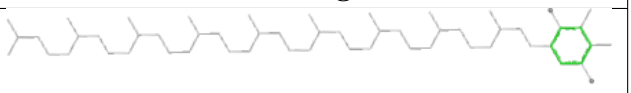
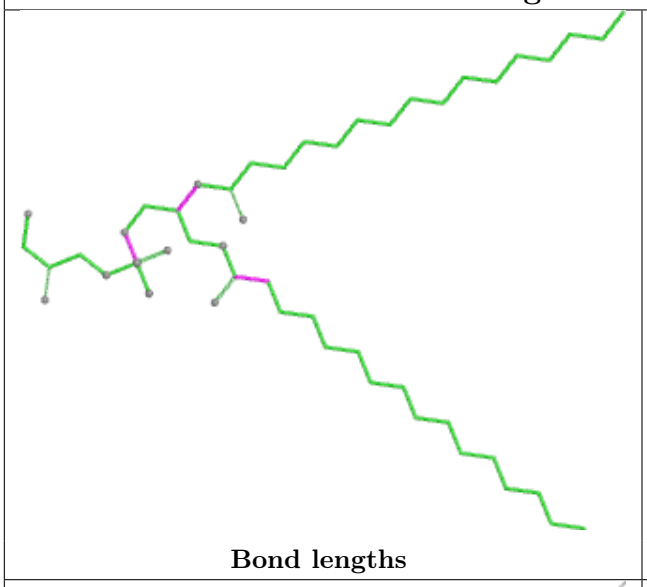
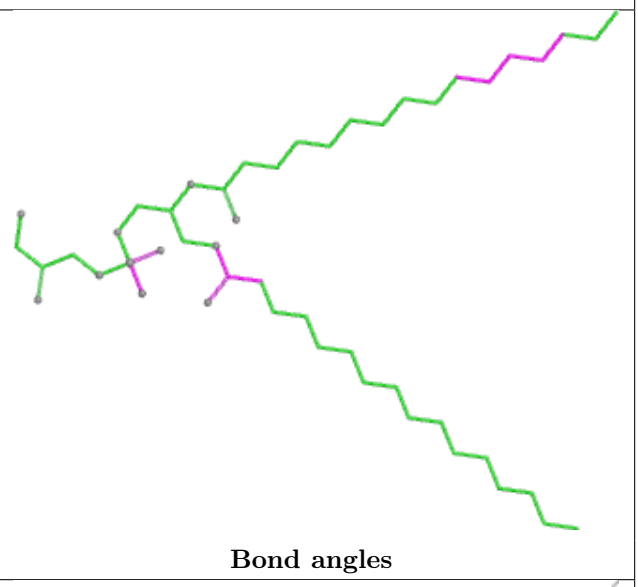


Rings

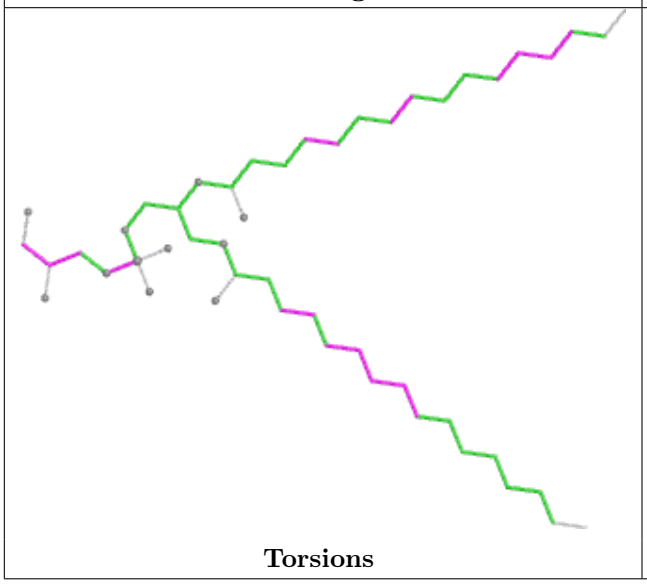
Ligand LHG B 722



Bond lengths



Bond angles



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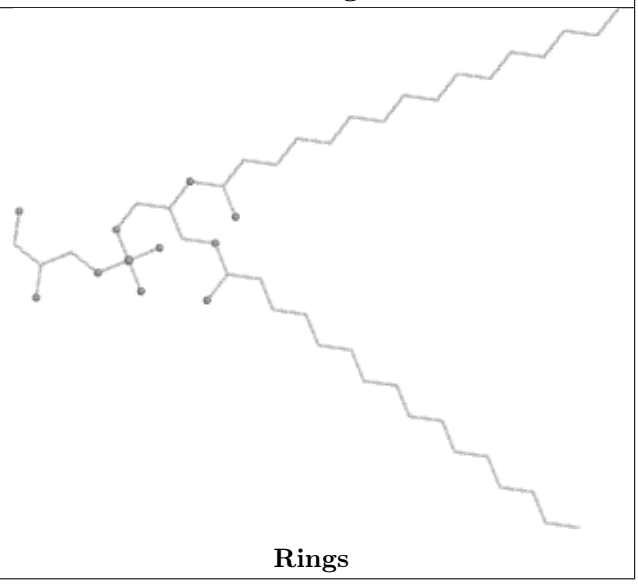
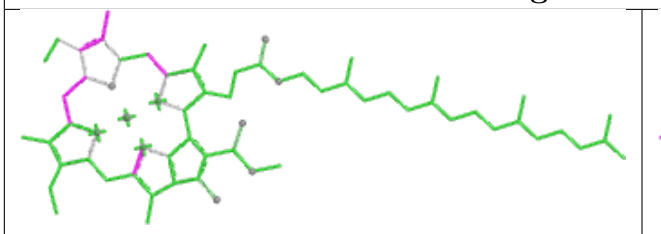
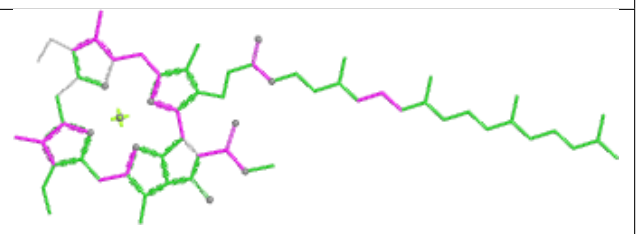


Rings

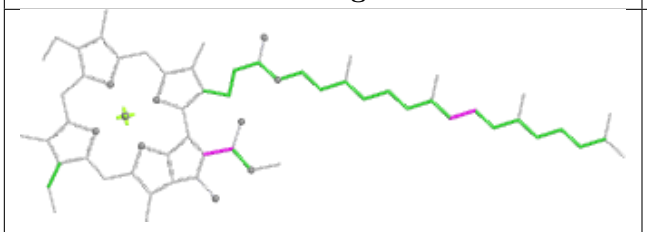
Ligand CLA c 508



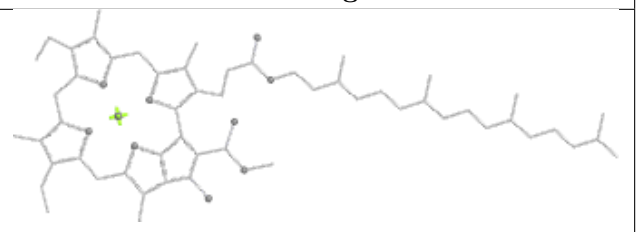
Bond lengths



Bond angles

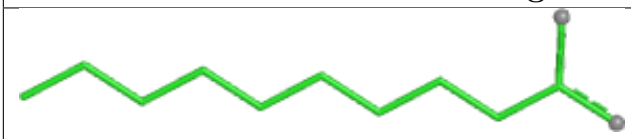


Torsions

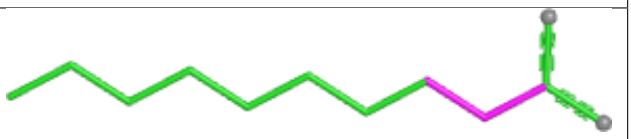


Rings

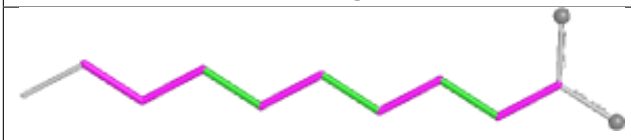
Ligand STE C 523



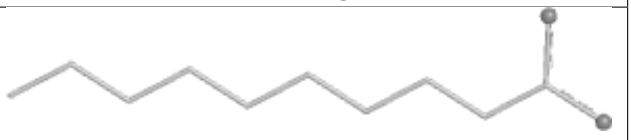
Bond lengths



Bond angles

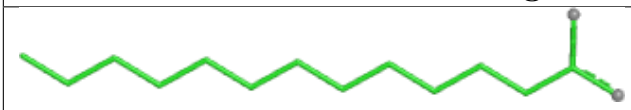


Torsions

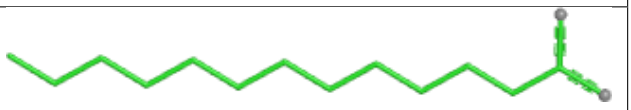


Rings

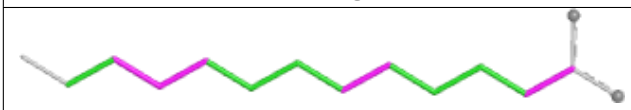
Ligand STE M 102



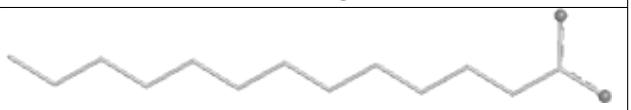
Bond lengths



Bond angles

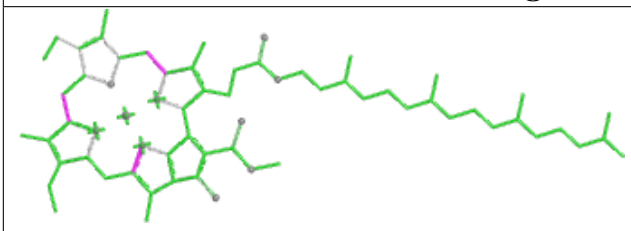


Torsions

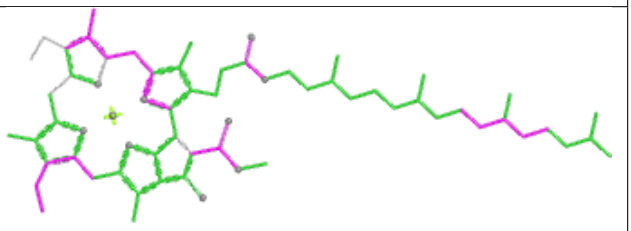


Rings

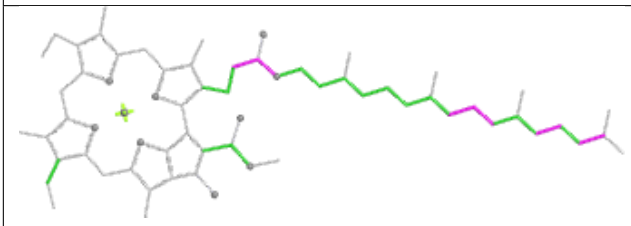
Ligand CLA B 712



Bond lengths



Bond angles



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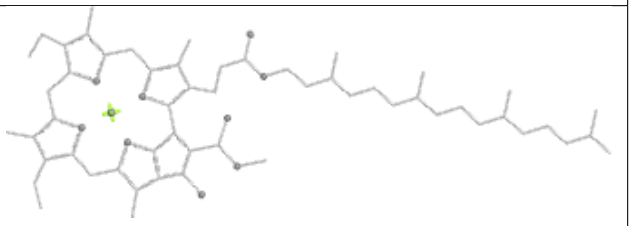
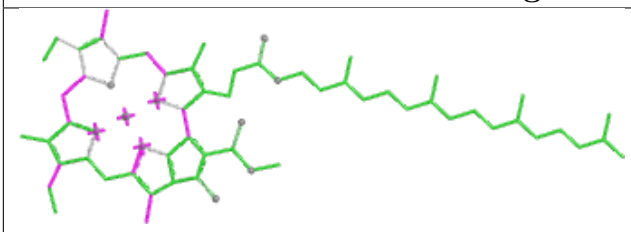
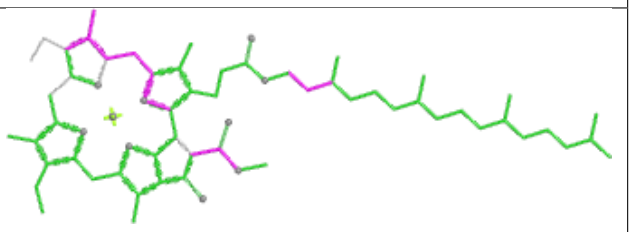
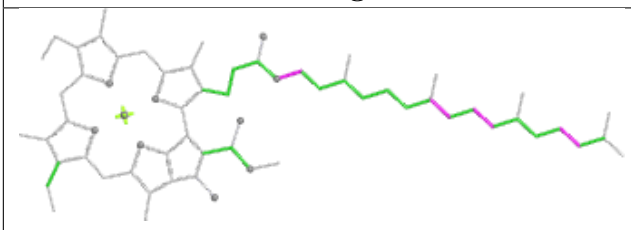
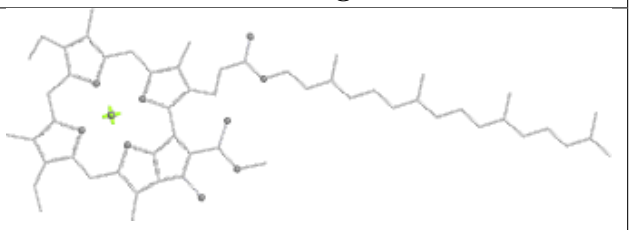
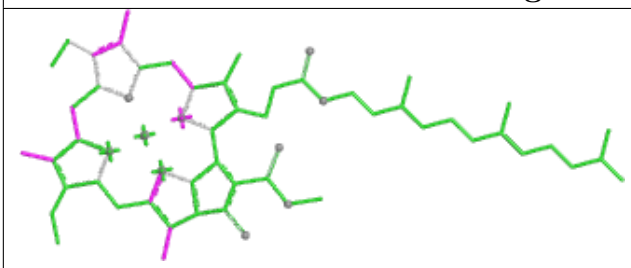
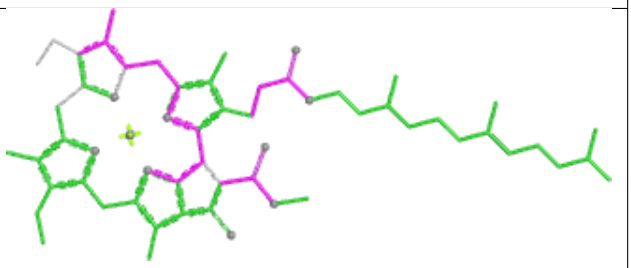
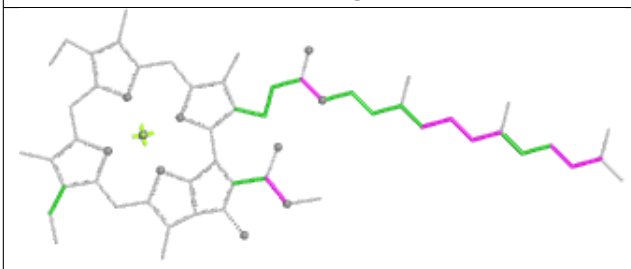
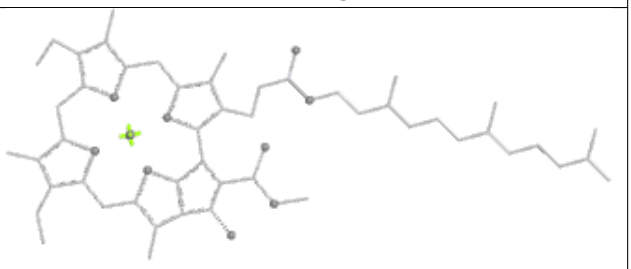
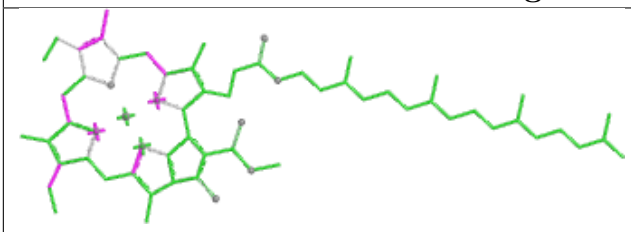


Rings

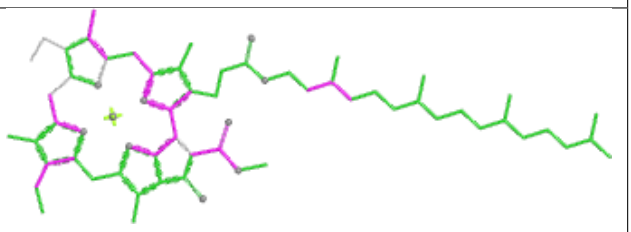
Ligand CLA D 401	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 716	
 Bond lengths	 Bond angles
 Torsions	 Rings

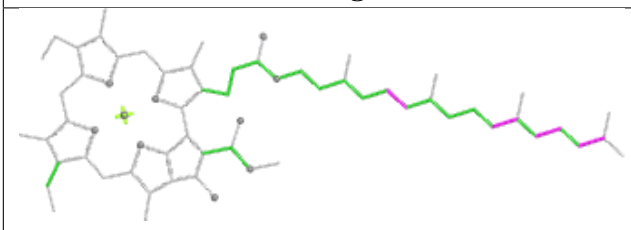
Ligand CLA B 715



Bond lengths



Bond angles



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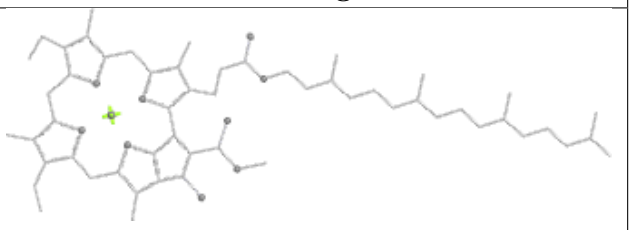
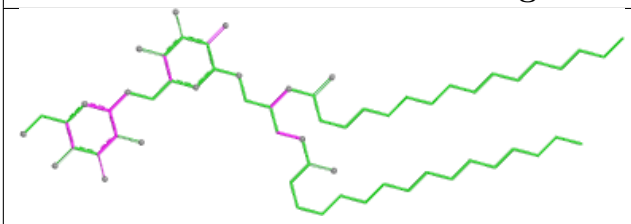
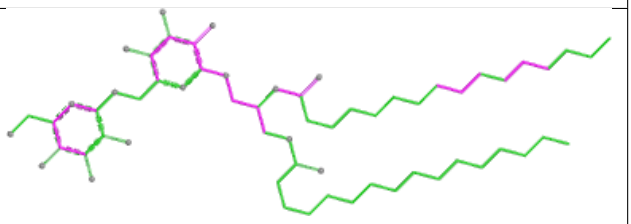


Rings

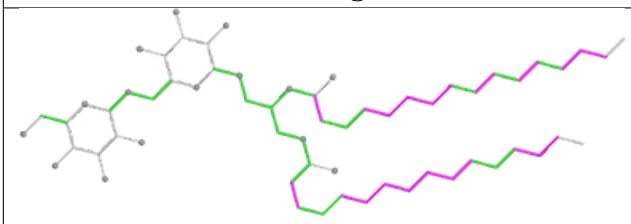
Ligand DGD H 103



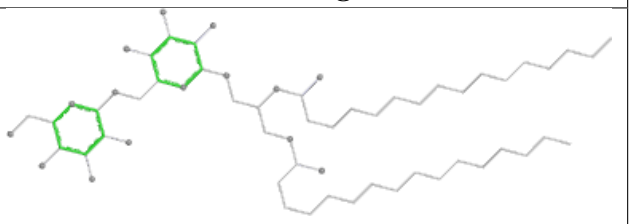
Bond lengths



Bond angles

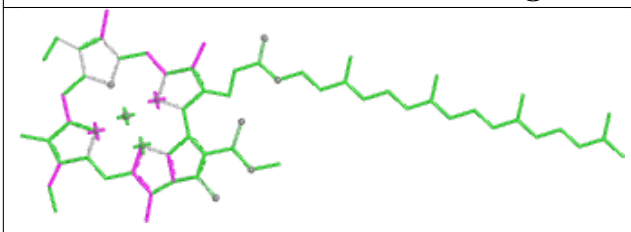


Torsions

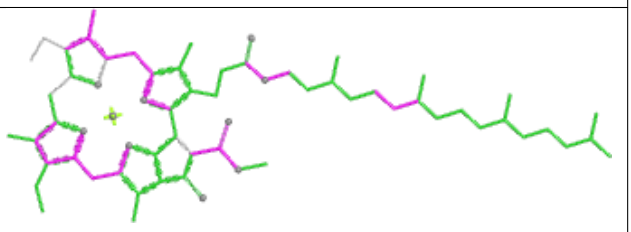


Rings

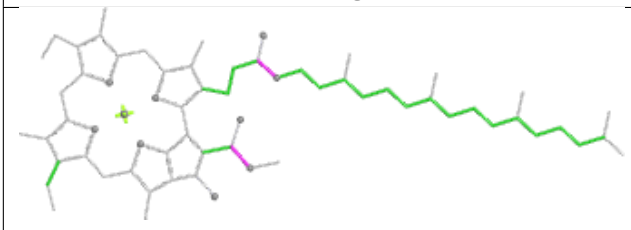
Ligand CLA B 708



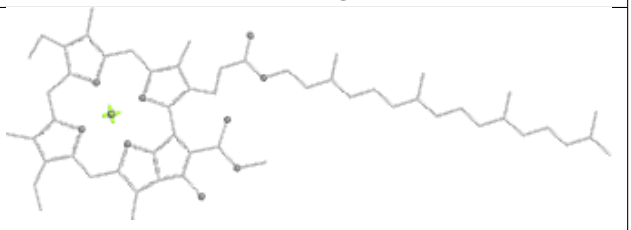
Bond lengths



Bond angles

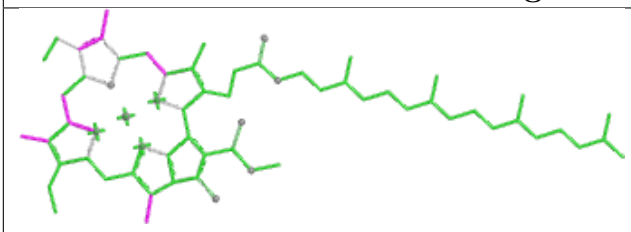


Torsions

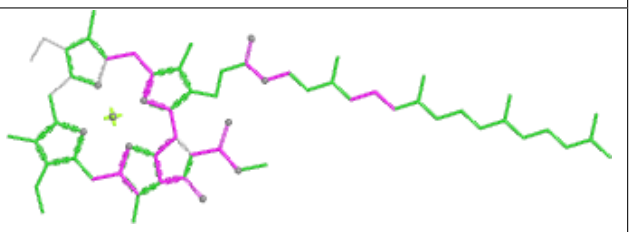


Rings

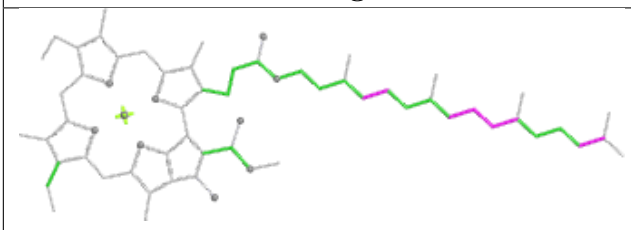
Ligand CLA B 705



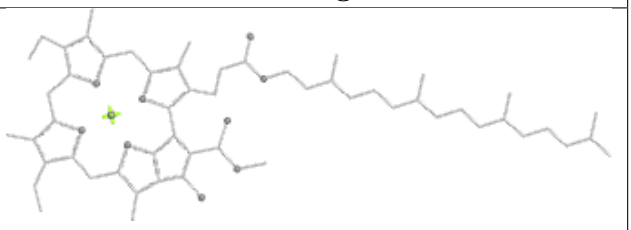
Bond lengths



Bond angles

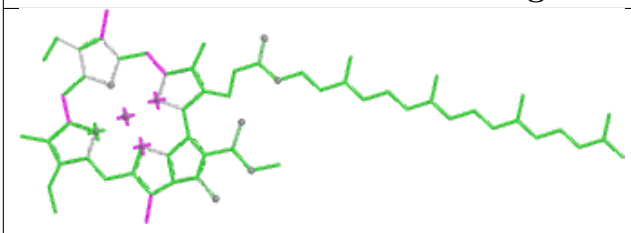


Torsions

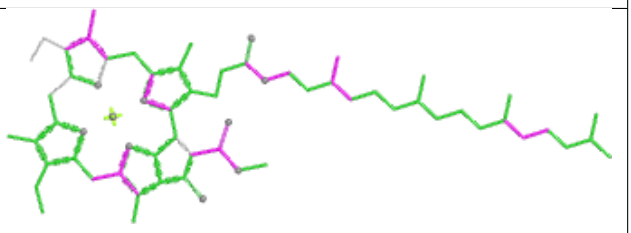


Rings

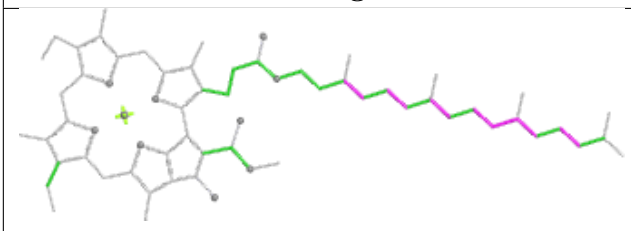
Ligand CLA b 705



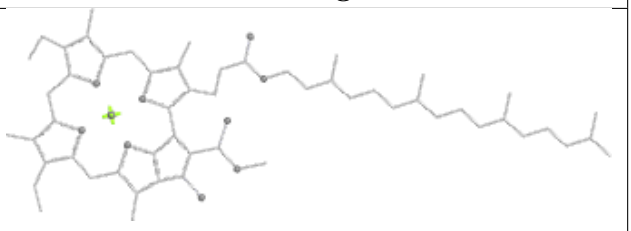
Bond lengths



Bond angles



Torsions



Rings

Ligand STE M 103

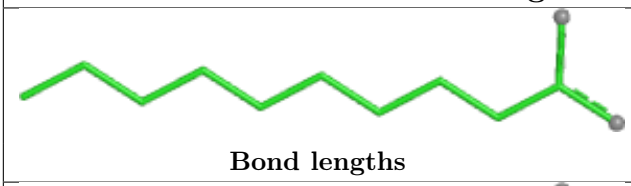
Bond lengths

Bond angles

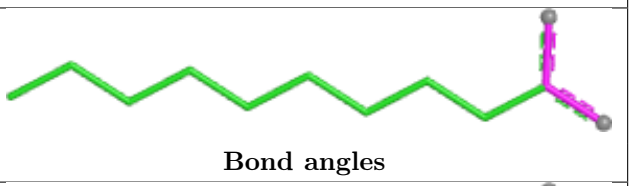
Torsions

Rings

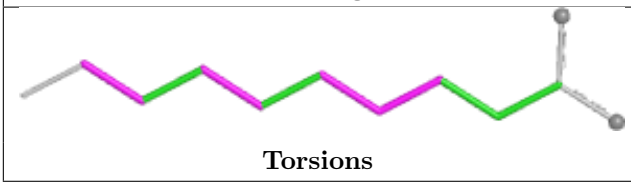
Ligand STE B 701



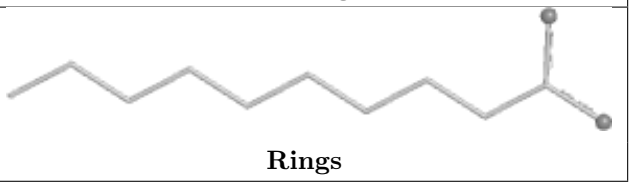
Bond lengths



Bond angles

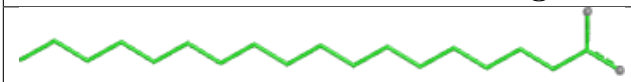


Torsions

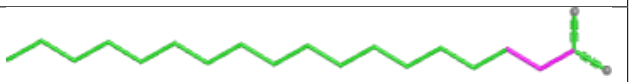


Rings

Ligand STE b 725



Bond lengths

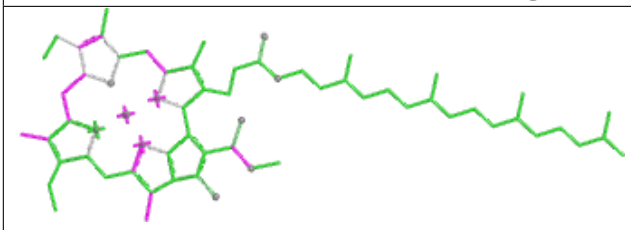


Bond angles

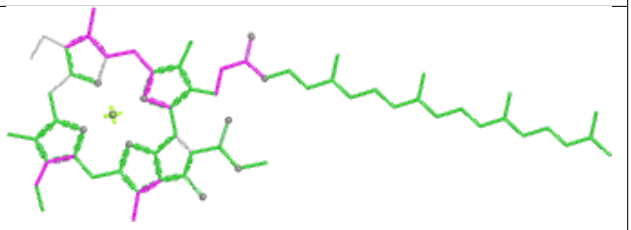
Torsions

Rings

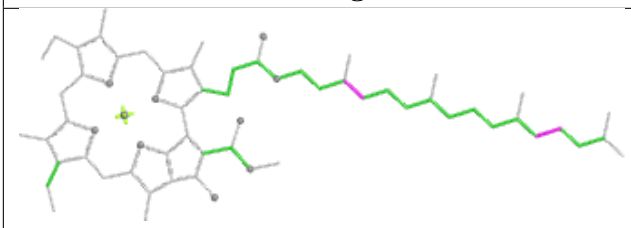
Ligand CLA B 709



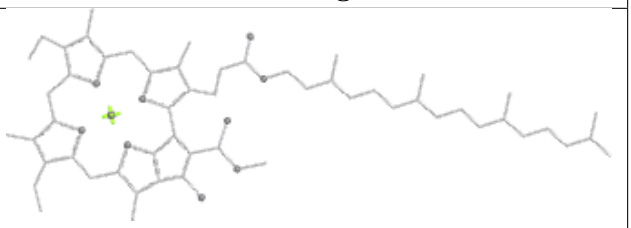
Bond lengths



Bond angles

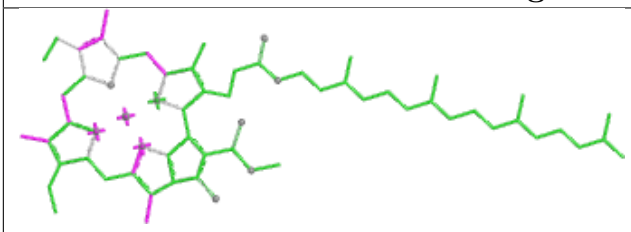


Torsions

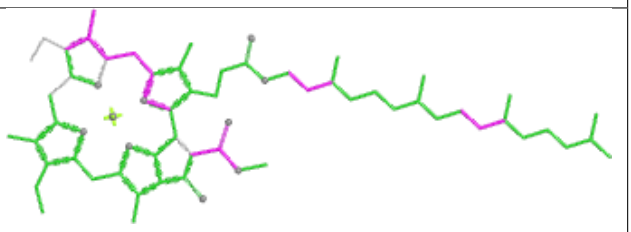


Rings

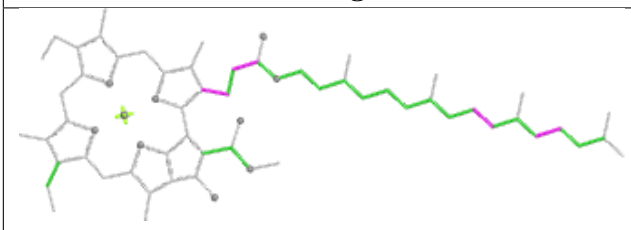
Ligand CLA b 712



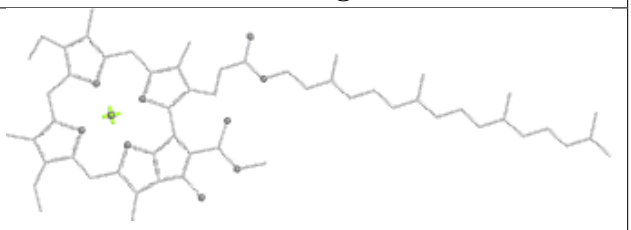
Bond lengths



Bond angles

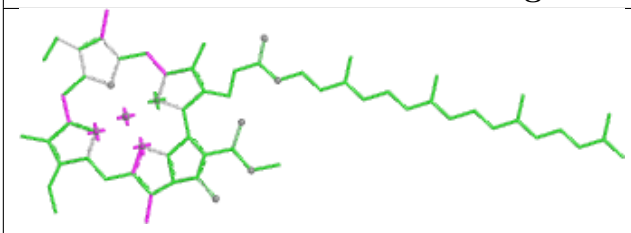


Torsions

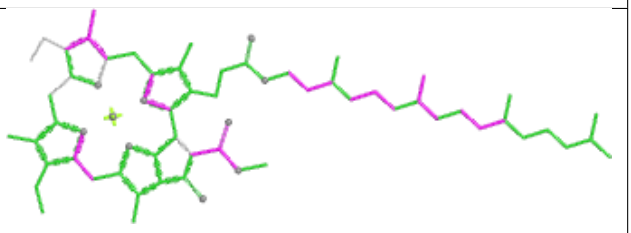


Rings

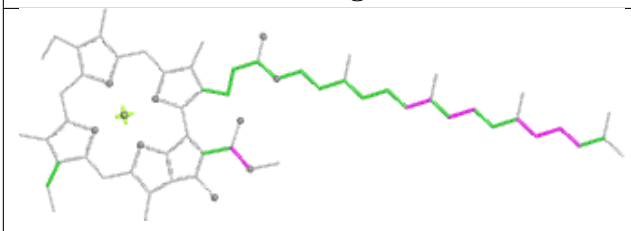
Ligand CLA B 711



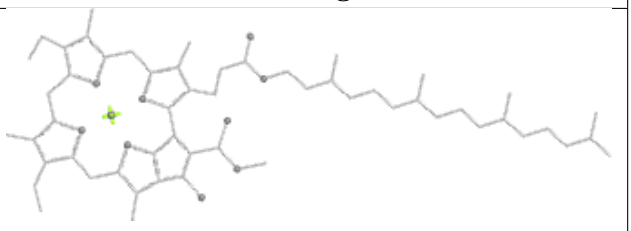
Bond lengths



Bond angles

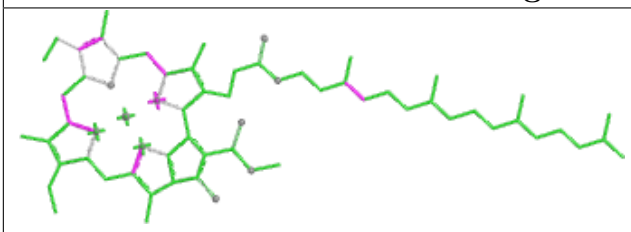


Torsions

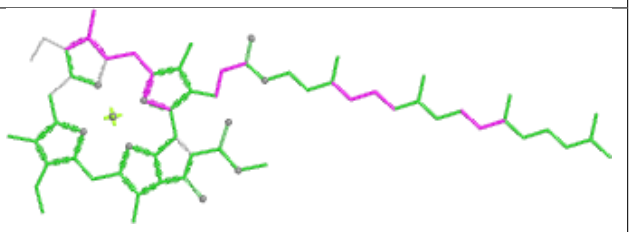


Rings

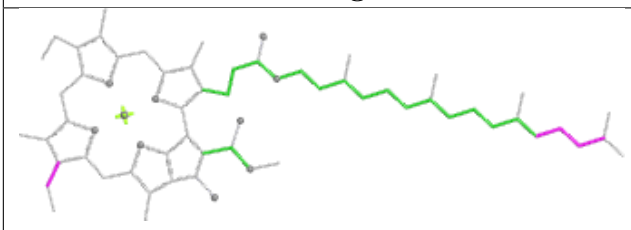
Ligand CLA A 402



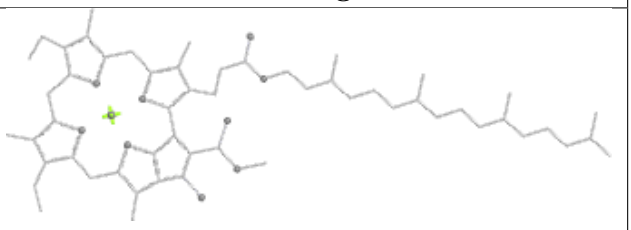
Bond lengths



Bond angles

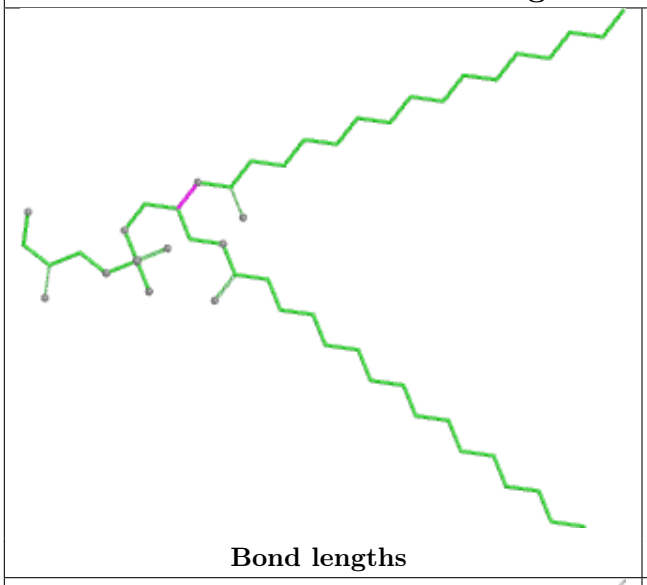


Torsions

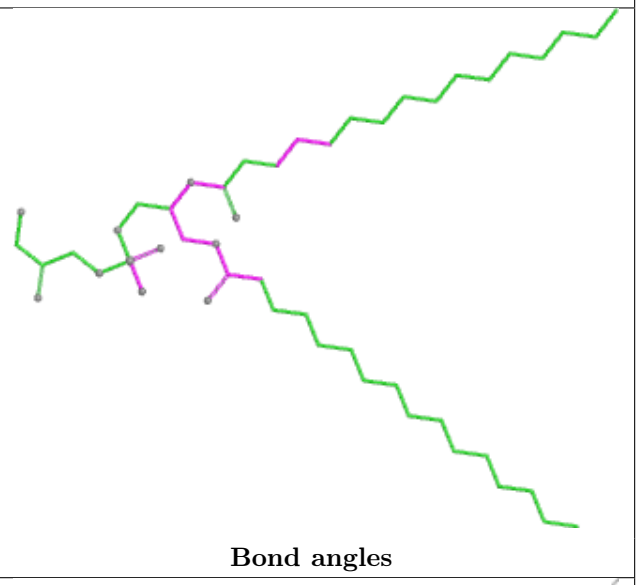


Rings

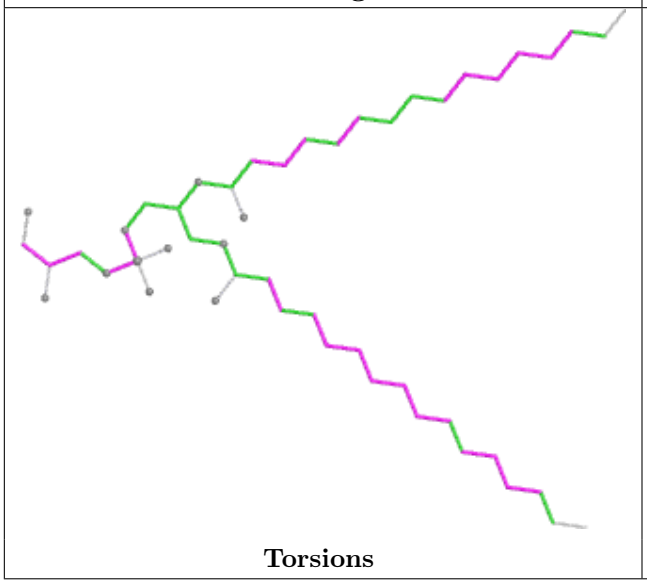
Ligand LHG a 412



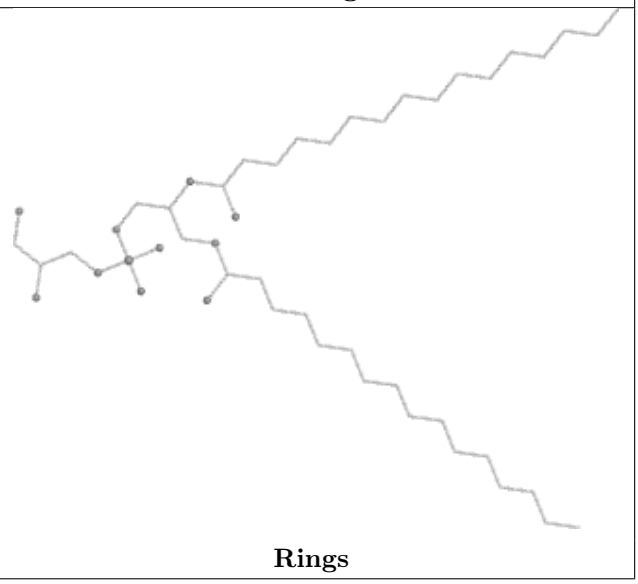
Bond lengths



Bond angles

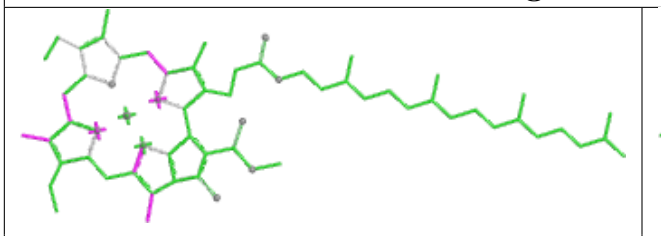


Torsions

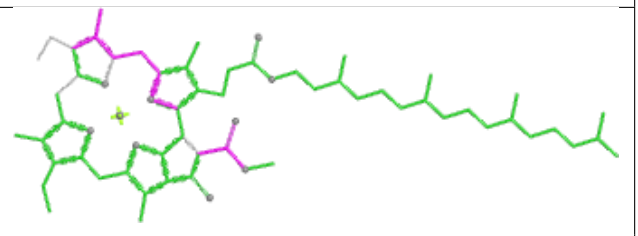


Rings

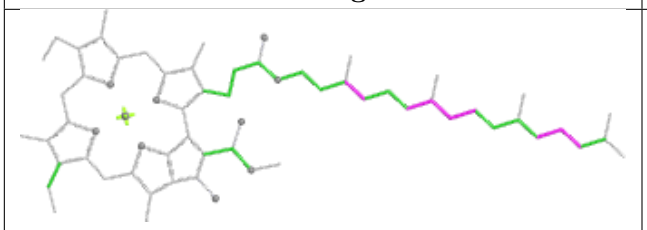
Ligand CLA C 511



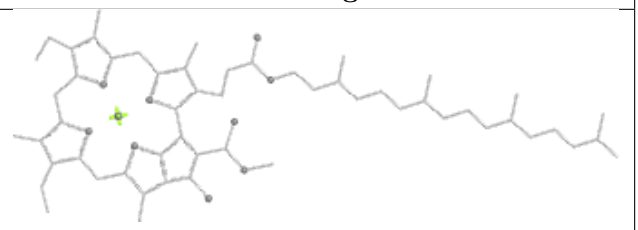
Bond lengths



Bond angles

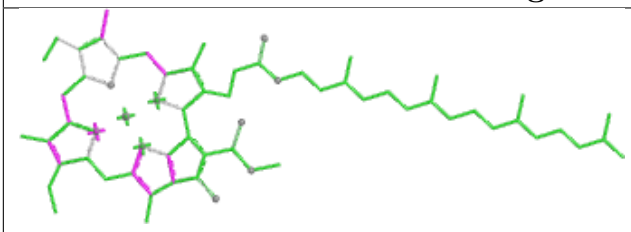


Torsions

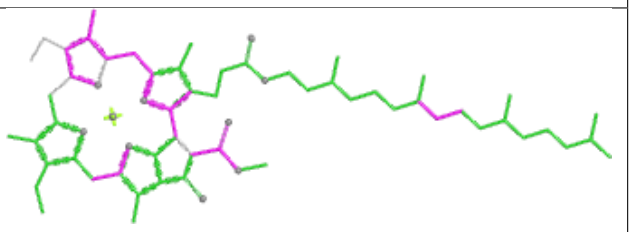


Rings

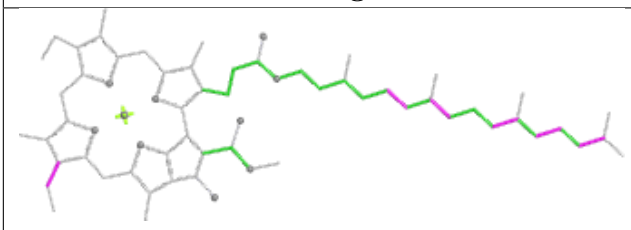
Ligand CLA b 708



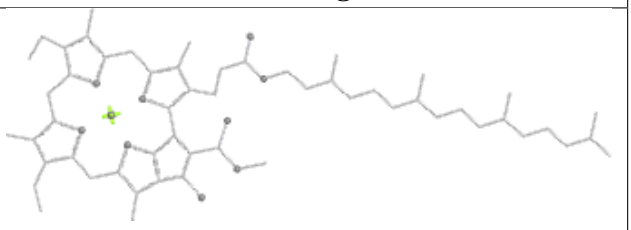
Bond lengths



Bond angles



Torsions

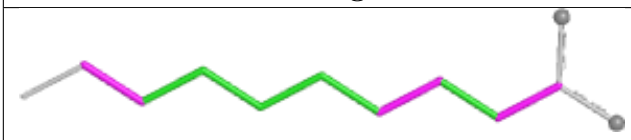


Rings

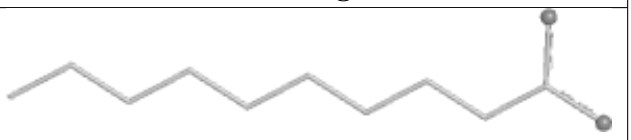
Ligand STE c 501

Bond lengths

Bond angles



Torsions

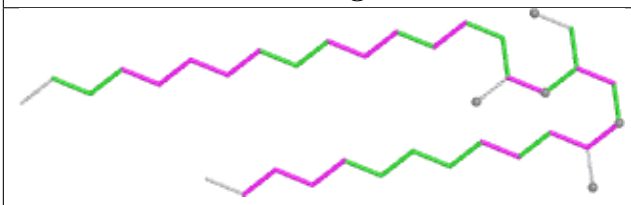


Rings

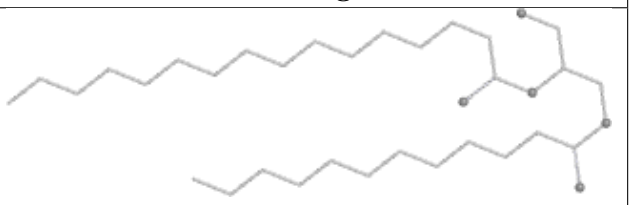
Ligand SQD a 415

Bond lengths

Bond angles

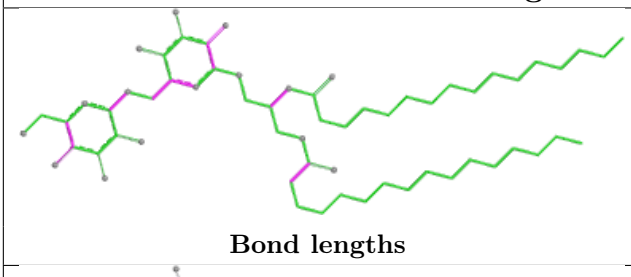


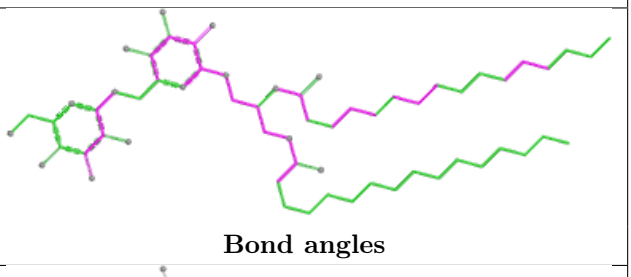
Torsions

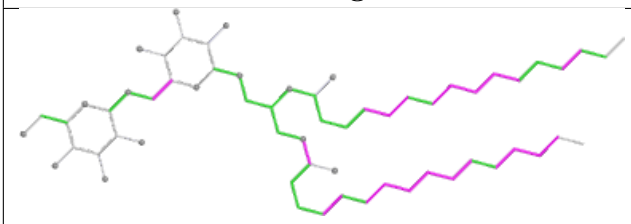


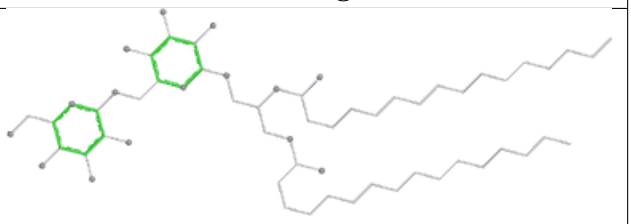
Rings

Ligand DGD c 519


Bond lengths


Bond angles


Torsions


Rings

Ligand STE a 418

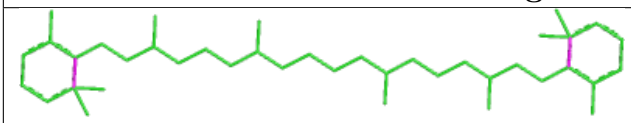

Bond lengths

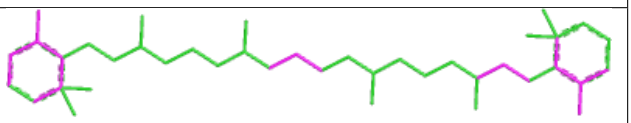

Bond angles

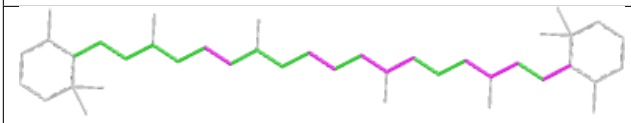

Torsions

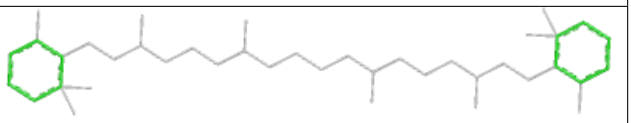

Rings

Ligand BCR d 403

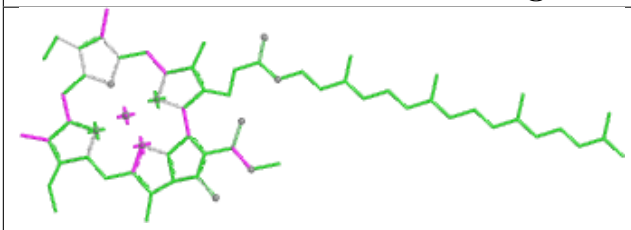

Bond lengths

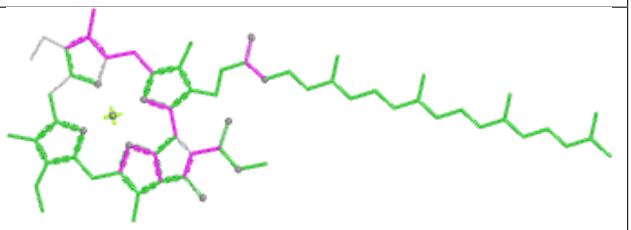

Bond angles

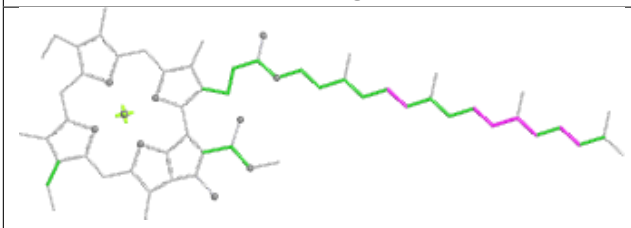

Torsions

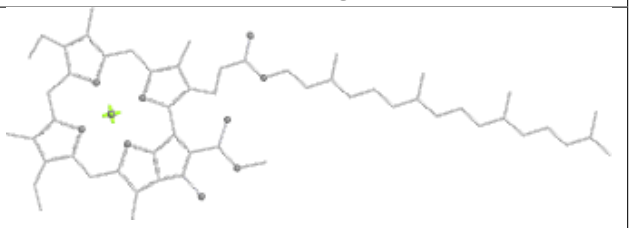

Rings

Ligand CLA d 402

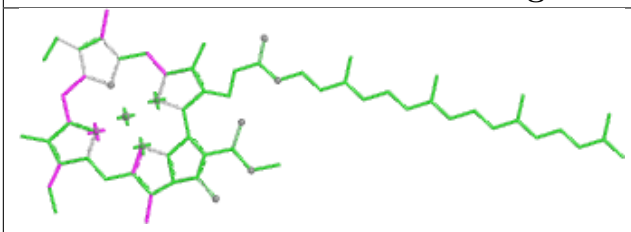

Bond lengths


Bond angles

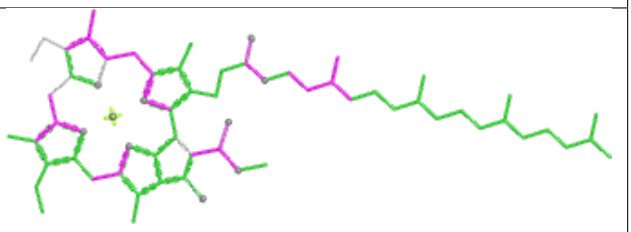

Torsions


Rings

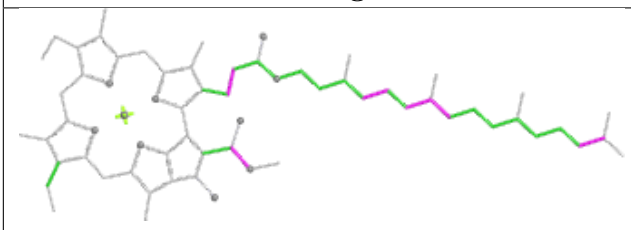
Ligand CLA b 702



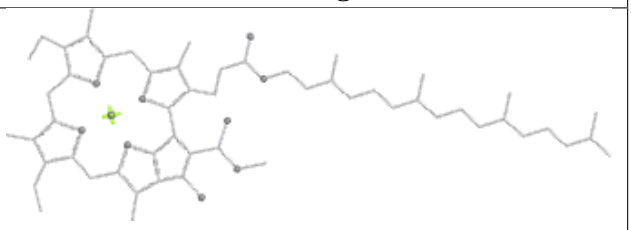
Bond lengths



Bond angles

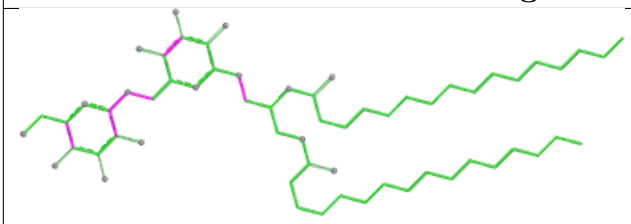


Torsions

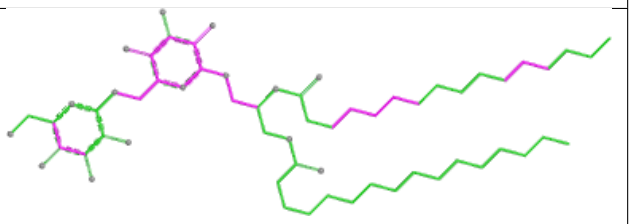


Rings

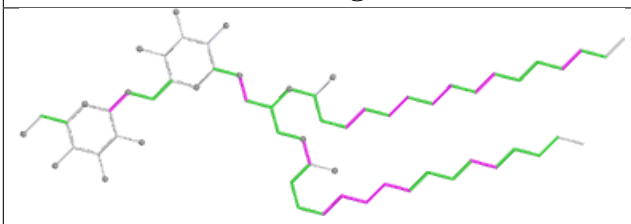
Ligand DGD C 518



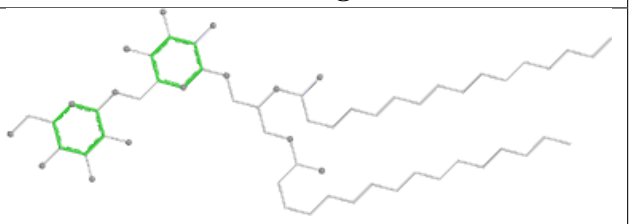
Bond lengths



Bond angles

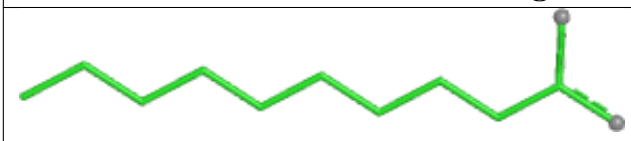


Torsions

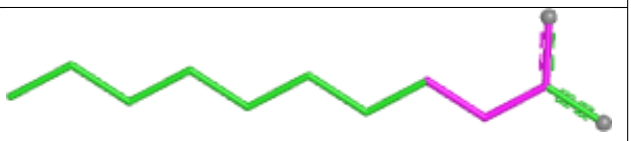


Rings

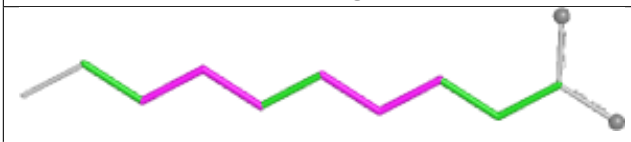
Ligand STE J 101



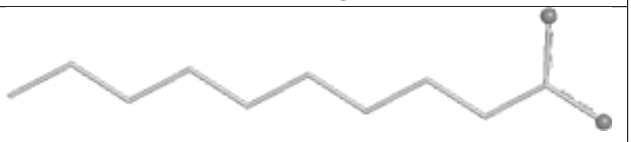
Bond lengths



Bond angles

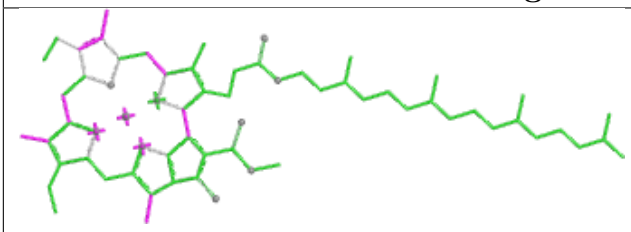


Torsions

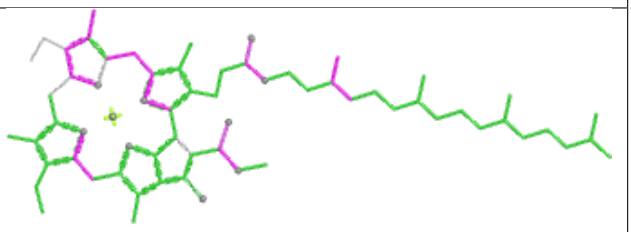


Rings

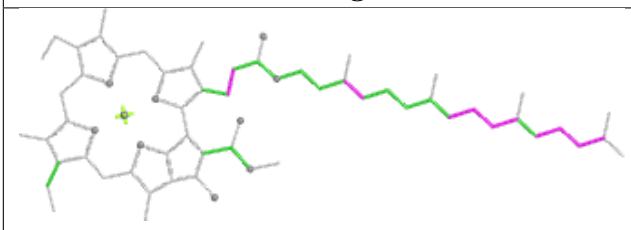
Ligand CLA B 703



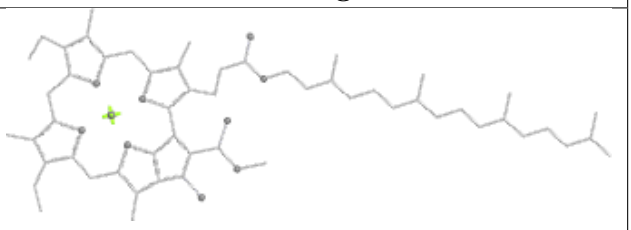
Bond lengths



Bond angles

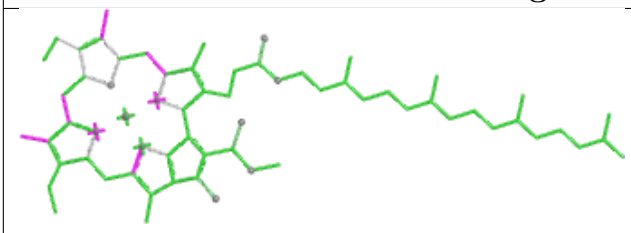


Torsions

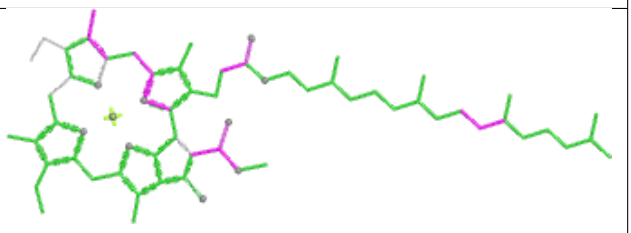


Rings

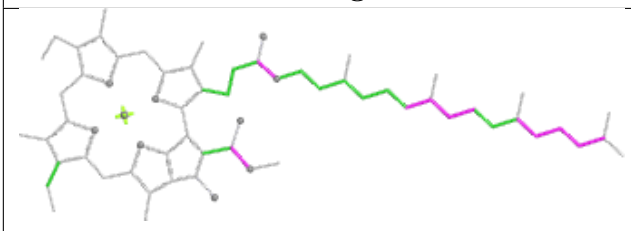
Ligand CLA c 512



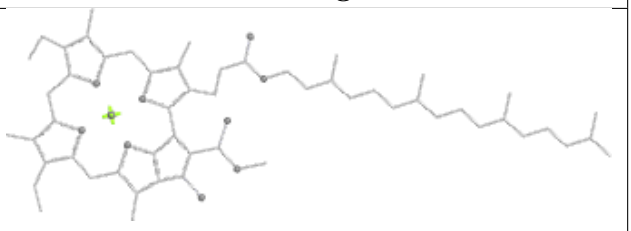
Bond lengths



Bond angles

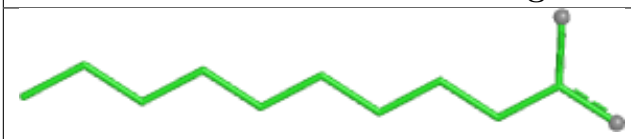


Torsions

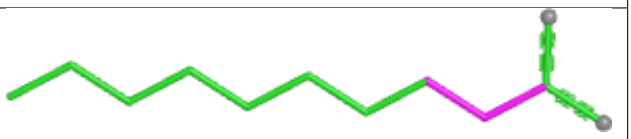


Rings

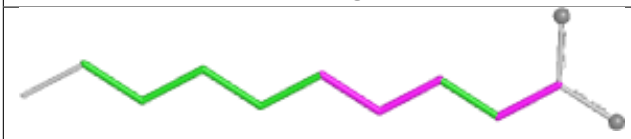
Ligand STE B 724



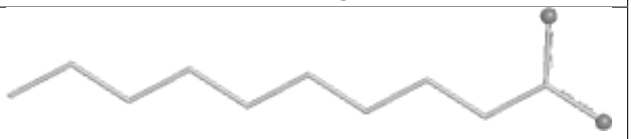
Bond lengths



Bond angles

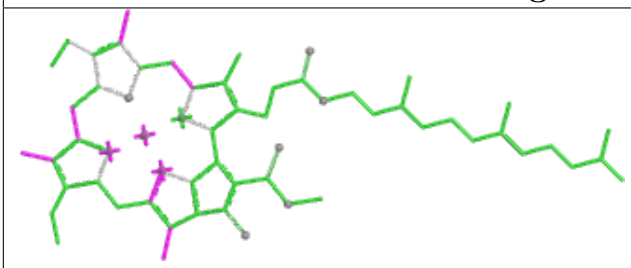


Torsions

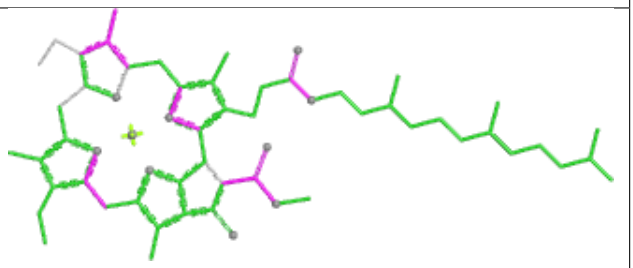


Rings

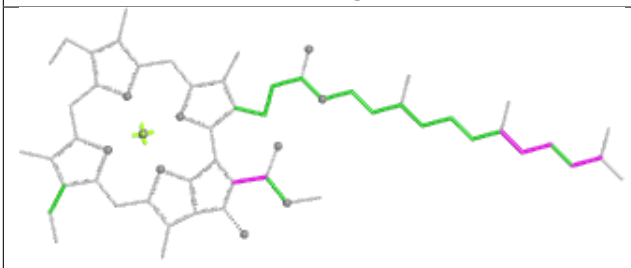
Ligand CLA c 505



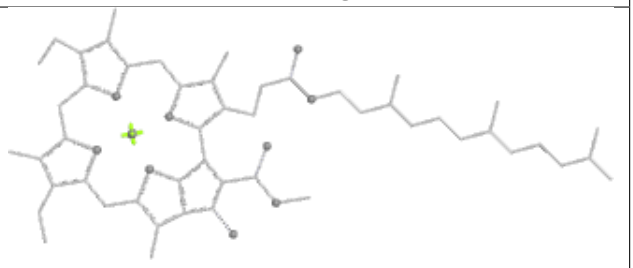
Bond lengths



Bond angles

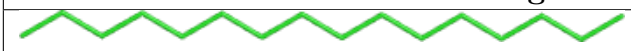


Torsions



Rings

Ligand STE B 726



Bond lengths

Bond angles

Torsions

Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	334/344 (97%)	-0.51	0 100 100	12, 31, 56, 88	64 (19%)
1	a	334/344 (97%)	-0.42	2 (0%) 85 86	14, 33, 63, 91	64 (19%)
2	B	505/510 (99%)	-0.51	0 100 100	18, 36, 67, 100	4 (0%)
2	b	505/510 (99%)	-0.39	3 (0%) 85 86	26, 40, 79, 117	0
3	C	442/461 (95%)	-0.44	0 100 100	15, 40, 57, 90	11 (2%)
3	c	451/461 (97%)	-0.35	2 (0%) 89 90	15, 43, 69, 101	12 (2%)
4	D	341/352 (96%)	-0.63	0 100 100	16, 34, 52, 88	2 (0%)
4	d	341/352 (96%)	-0.47	1 (0%) 90 91	16, 37, 65, 83	3 (0%)
5	E	82/84 (97%)	0.16	1 (1%) 76 77	35, 57, 76, 88	1 (1%)
5	e	82/84 (97%)	0.17	1 (1%) 76 77	41, 64, 85, 87	0
6	F	34/45 (75%)	-0.18	0 100 100	42, 49, 73, 90	0
6	f	34/45 (75%)	0.08	1 (2%) 54 55	44, 54, 86, 99	0
7	H	65/66 (98%)	-0.28	3 (4%) 38 40	36, 45, 64, 75	0
7	h	63/66 (95%)	-0.02	1 (1%) 70 71	43, 55, 68, 81	0
8	I	35/38 (92%)	-0.44	0 100 100	35, 42, 77, 88	0
8	i	35/38 (92%)	-0.27	0 100 100	34, 45, 78, 85	0
9	J	36/40 (90%)	-0.22	0 100 100	35, 54, 83, 100	0
9	j	36/40 (90%)	0.09	1 (2%) 55 57	44, 56, 89, 104	0
10	K	37/46 (80%)	-0.01	0 100 100	48, 58, 79, 87	0
10	k	37/46 (80%)	0.10	0 100 100	53, 61, 76, 86	0
11	L	37/37 (100%)	-0.64	0 100 100	28, 35, 70, 75	0
11	l	36/37 (97%)	-0.65	0 100 100	25, 34, 80, 95	0
12	M	32/36 (88%)	-0.57	0 100 100	28, 38, 61, 76	0
12	m	31/36 (86%)	-0.61	0 100 100	27, 38, 54, 77	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	O	244/272 (89%)	-0.29	2 (0%) 82 83	26, 45, 85, 139	1 (0%)
13	o	244/272 (89%)	-0.33	1 (0%) 89 90	27, 44, 86, 128	0
14	R	34/41 (82%)	0.98	1 (2%) 54 55	68, 86, 101, 114	0
14	r	31/41 (75%)	1.33	4 (12%) 9 9	85, 108, 125, 139	0
15	T	29/32 (90%)	-0.66	0 100 100	29, 34, 69, 80	0
15	t	29/32 (90%)	-0.50	1 (3%) 48 50	29, 36, 85, 92	0
16	U	97/134 (72%)	-0.28	0 100 100	33, 48, 76, 94	0
16	u	97/134 (72%)	-0.34	0 100 100	33, 44, 63, 82	0
17	V	137/163 (84%)	-0.44	0 100 100	32, 43, 59, 85	0
17	v	137/163 (84%)	-0.25	0 100 100	31, 51, 75, 89	0
18	X	38/41 (92%)	-0.12	1 (2%) 57 59	46, 57, 82, 88	0
18	x	39/41 (95%)	0.13	2 (5%) 34 36	54, 66, 96, 113	0
19	Y	27/46 (58%)	0.84	2 (7%) 22 24	58, 82, 96, 105	0
19	y	30/46 (65%)	0.53	0 100 100	66, 79, 94, 105	0
20	Z	62/62 (100%)	0.59	2 (3%) 50 52	58, 73, 117, 131	0
20	z	62/62 (100%)	0.58	3 (4%) 36 38	58, 77, 117, 129	0
All	All	5302/5700 (93%)	-0.33	35 (0%) 84 85	12, 42, 81, 139	162 (3%)

The worst 5 of 35 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
14	R	35	LEU	4.0
13	o	58	ASN	3.7
14	r	32	GLN	3.7
13	O	60	ARG	3.6
15	t	30	THR	3.1

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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
8	FME	I	1	10/11	0.93	0.09	39,52,68,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
15	FME	t	1	10/11	0.94	0.08	29,46,71,71	0
15	FME	T	1	10/11	0.95	0.08	27,47,63,64	0
12	FME	M	1	10/11	0.95	0.08	41,50,66,80	0
8	FME	i	1	10/11	0.96	0.09	38,48,60,62	0
12	FME	m	1	10/11	0.96	0.07	34,48,69,82	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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
28	STE	b	726	10/20	0.75	0.16	43,56,67,75	0
28	STE	I	101	15/20	0.77	0.17	40,55,81,86	0
28	STE	H	104	18/20	0.77	0.17	43,76,86,92	0
28	STE	b	725	20/20	0.81	0.14	45,63,80,83	0
33	LMG	c	522	48/55	0.81	0.14	35,77,108,113	0
28	STE	a	416	10/20	0.82	0.14	30,64,69,73	0
28	STE	B	726	16/20	0.82	0.14	43,64,79,86	0
25	PL9	A	408	55/55	0.82	0.16	44,70,86,96	0
28	STE	b	727	20/20	0.82	0.14	43,67,93,95	0
28	STE	c	501	12/20	0.82	0.11	55,68,85,93	0
33	LMG	b	723	55/55	0.82	0.15	45,73,94,109	0
27	LHG	A	410	49/49	0.82	0.13	45,80,104,115	0
28	STE	A	414	5/20	0.83	0.22	41,57,71,71	0
27	LHG	a	414	42/49	0.83	0.14	45,87,109,127	0
28	STE	E	101	12/20	0.83	0.16	56,79,85,90	0
28	STE	h	703	14/20	0.84	0.16	43,66,89,90	0
28	STE	a	417	12/20	0.84	0.12	51,64,76,77	0
28	STE	a	418	15/20	0.84	0.16	36,61,76,79	0
28	STE	C	522	16/20	0.85	0.12	38,53,66,67	0
25	PL9	a	411	55/55	0.85	0.15	42,69,93,98	0
28	STE	E	102	7/20	0.85	0.15	49,62,76,76	0
28	STE	A	411	16/20	0.85	0.14	34,47,74,75	0
28	STE	x	101	20/20	0.85	0.12	45,62,75,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
29	DGD	A	413	66/66	0.85	0.11	42,64,79,94	0
33	LMG	a	419	55/55	0.85	0.14	35,62,103,143	0
28	STE	b	724	16/20	0.85	0.14	52,66,82,85	0
28	STE	H	105	8/20	0.85	0.15	47,58,69,69	0
28	STE	C	523	12/20	0.86	0.13	33,46,58,69	0
26	SQD	A	412	39/54	0.86	0.13	38,64,94,99	0
28	STE	c	521	20/20	0.86	0.11	39,57,79,84	0
26	SQD	a	415	36/54	0.86	0.12	25,59,84,92	0
33	LMG	c	520	37/55	0.86	0.12	44,70,84,92	0
28	STE	m	101	12/20	0.86	0.12	42,57,70,79	0
28	STE	J	101	12/20	0.87	0.12	48,67,71,71	0
28	STE	B	720	17/20	0.87	0.11	30,50,62,73	0
33	LMG	D	412	32/55	0.87	0.12	37,57,80,84	0
22	CLA	b	701	65/65	0.87	0.11	48,68,91,96	0
28	STE	C	521	12/20	0.87	0.10	34,52,63,66	0
26	SQD	f	101	41/54	0.87	0.13	55,88,106,108	0
26	SQD	B	723	54/54	0.87	0.10	37,60,94,106	0
33	LMG	C	520	48/55	0.88	0.12	43,70,88,94	0
28	STE	l	102	18/20	0.88	0.12	37,50,81,85	0
28	STE	B	724	12/20	0.88	0.10	40,51,66,66	0
28	STE	B	725	18/20	0.88	0.11	37,54,75,81	0
28	STE	j	101	12/20	0.88	0.11	41,57,67,69	0
33	LMG	C	516	48/55	0.88	0.10	38,59,78,100	0
28	STE	t	702	14/20	0.89	0.10	34,53,65,67	0
26	SQD	D	409	36/54	0.89	0.12	48,76,93,99	0
28	STE	B	701	12/20	0.89	0.13	46,61,86,87	0
28	STE	b	722	20/20	0.89	0.10	35,54,74,77	0
28	STE	d	409	17/20	0.89	0.11	42,55,64,68	0
26	SQD	b	720	49/54	0.90	0.09	37,59,91,109	0
22	CLA	C	514	65/65	0.90	0.10	40,65,98,108	0
33	LMG	b	721	51/55	0.90	0.10	34,52,76,93	0
33	LMG	B	721	28/55	0.90	0.11	33,50,62,68	0
23	BCR	c	515	40/40	0.90	0.10	45,61,76,80	0
23	BCR	h	701	40/40	0.90	0.11	37,56,75,86	0
28	STE	Z	101	8/20	0.91	0.14	39,57,68,68	0
23	BCR	d	403	40/40	0.91	0.10	36,54,93,108	0
33	LMG	M	101	51/55	0.91	0.09	30,48,73,79	0
23	BCR	K	101	40/40	0.91	0.11	42,57,71,79	0
26	SQD	a	413	54/54	0.91	0.10	41,64,90,97	0
23	BCR	k	101	40/40	0.91	0.10	36,63,79,87	0
28	STE	T	702	15/20	0.91	0.11	39,54,81,81	0
28	STE	X	101	20/20	0.91	0.10	33,49,69,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
33	LMG	c	523	49/55	0.91	0.10	34,57,82,100	0
22	CLA	c	513	65/65	0.92	0.10	40,59,95,110	0
23	BCR	Y	101	40/40	0.92	0.09	40,54,75,77	0
29	DGD	h	702	62/66	0.92	0.09	32,48,61,73	0
23	BCR	H	101	40/40	0.92	0.09	34,48,61,78	0
28	STE	M	102	15/20	0.92	0.10	34,51,65,75	0
28	STE	M	103	10/20	0.92	0.09	34,47,51,58	0
23	BCR	k	102	40/40	0.92	0.10	40,54,68,71	0
22	CLA	c	514	65/65	0.93	0.10	43,71,109,112	0
33	LMG	D	408	51/55	0.93	0.10	34,55,84,90	0
23	BCR	B	718	40/40	0.93	0.07	22,39,53,54	0
23	BCR	B	719	40/40	0.93	0.07	22,42,58,64	0
29	DGD	C	518	62/66	0.93	0.09	35,52,99,119	0
29	DGD	H	103	62/66	0.93	0.08	28,46,60,64	0
29	DGD	c	518	62/66	0.93	0.09	32,53,87,94	0
23	BCR	C	501	40/40	0.93	0.10	38,56,70,74	0
23	BCR	D	404	40/40	0.93	0.09	26,42,91,98	0
22	CLA	H	102	65/65	0.93	0.09	30,60,95,107	0
22	CLA	C	511	65/65	0.94	0.08	32,48,65,80	0
27	LHG	d	407	39/49	0.94	0.08	33,49,68,71	0
22	CLA	C	513	65/65	0.94	0.10	35,56,93,98	0
32	BCT	a	410	4/4	0.94	0.09	30,32,44,53	0
26	SQD	A	409	52/54	0.94	0.09	27,61,89,95	0
23	BCR	b	717	40/40	0.94	0.07	27,41,52,56	0
23	BCR	b	719	40/40	0.94	0.07	33,48,65,76	0
22	CLA	c	509	64/65	0.94	0.09	31,47,87,108	0
23	BCR	c	516	40/40	0.94	0.09	30,43,58,70	0
22	CLA	c	510	65/65	0.94	0.09	33,48,63,69	0
23	BCR	C	515	40/40	0.94	0.07	25,39,51,59	0
22	CLA	c	512	65/65	0.94	0.09	38,55,71,74	0
22	CLA	C	504	65/65	0.94	0.07	30,45,56,58	0
27	LHG	B	722	49/49	0.94	0.09	29,46,70,77	0
27	LHG	a	412	49/49	0.94	0.10	30,48,76,83	0
29	DGD	C	519	62/66	0.94	0.08	32,49,69,84	0
33	LMG	d	408	44/55	0.94	0.09	34,53,82,87	0
22	CLA	C	509	65/65	0.95	0.08	27,44,105,117	0
22	CLA	C	510	65/65	0.95	0.08	27,45,63,74	0
22	CLA	B	709	65/65	0.95	0.07	23,38,52,56	0
23	BCR	t	701	40/40	0.95	0.06	22,38,54,56	0
22	CLA	d	402	65/65	0.95	0.09	28,49,81,95	0
25	PL9	D	405	55/55	0.95	0.06	23,33,48,54	0
23	BCR	A	405	40/40	0.95	0.06	24,36,47,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
25	PL9	d	404	55/55	0.95	0.06	21,34,43,47	0
29	DGD	C	517	62/66	0.95	0.09	23,42,75,85	0
23	BCR	B	717	40/40	0.95	0.07	24,41,58,62	0
22	CLA	b	702	65/65	0.95	0.08	28,42,63,66	0
22	CLA	b	706	65/65	0.95	0.08	23,39,75,80	0
22	CLA	b	709	65/65	0.95	0.07	27,47,68,80	0
29	DGD	c	519	62/66	0.95	0.08	28,55,83,95	0
22	CLA	b	714	65/65	0.95	0.07	22,40,73,86	0
22	CLA	b	715	65/65	0.95	0.08	27,42,60,65	0
22	CLA	b	716	60/65	0.95	0.09	29,46,92,95	0
22	CLA	c	503	65/65	0.95	0.07	27,45,68,75	0
23	BCR	T	701	40/40	0.95	0.07	28,41,57,60	0
22	CLA	c	504	65/65	0.95	0.07	23,44,56,64	0
27	LHG	D	411	47/49	0.95	0.09	24,49,85,96	0
23	BCR	a	407	40/40	0.95	0.06	23,34,50,54	0
22	CLA	c	507	65/65	0.95	0.09	30,48,97,104	0
23	BCR	b	718	40/40	0.95	0.06	27,39,52,55	0
27	LHG	l	101	49/49	0.95	0.07	31,44,53,61	0
22	CLA	c	508	65/65	0.95	0.07	26,43,60,64	0
22	CLA	C	512	65/65	0.95	0.08	30,52,67,74	0
22	CLA	C	507	65/65	0.95	0.09	26,44,83,94	0
22	CLA	c	511	65/65	0.95	0.07	34,49,63,75	0
34	PHO	a	405	64/64	0.95	0.06	18,32,41,46	0
34	PHO	d	405	64/64	0.95	0.06	28,39,48,63	0
27	LHG	L	101	49/49	0.96	0.07	31,41,55,65	0
22	CLA	b	705	65/65	0.96	0.06	19,35,49,61	0
22	CLA	B	715	65/65	0.96	0.07	24,36,67,75	0
27	LHG	d	406	49/49	0.96	0.07	26,45,56,62	0
22	CLA	b	707	65/65	0.96	0.08	19,36,68,75	0
22	CLA	b	708	65/65	0.96	0.07	28,44,64,66	0
22	CLA	C	503	65/65	0.96	0.06	30,44,57,62	0
22	CLA	b	710	65/65	0.96	0.07	24,38,49,61	0
22	CLA	b	712	65/65	0.96	0.07	23,36,47,52	0
22	CLA	b	713	65/65	0.96	0.07	18,36,67,82	0
22	CLA	A	403	65/65	0.96	0.09	21,35,88,102	0
22	CLA	C	505	59/65	0.96	0.07	28,43,75,85	0
22	CLA	C	506	65/65	0.96	0.08	23,41,69,80	0
22	CLA	c	502	65/65	0.96	0.07	27,41,52,56	0
22	CLA	B	702	65/65	0.96	0.06	25,36,56,64	0
29	DGD	c	517	62/66	0.96	0.08	24,42,78,87	0
22	CLA	C	508	65/65	0.96	0.07	25,42,57,63	0
22	CLA	c	505	60/65	0.96	0.07	34,47,77,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
22	CLA	c	506	65/65	0.96	0.08	25,41,69,76	0
32	BCT	A	417	4/4	0.96	0.07	25,31,36,43	0
22	CLA	B	704	65/65	0.96	0.07	20,32,76,78	0
22	CLA	B	705	65/65	0.96	0.06	15,31,45,52	0
22	CLA	B	706	65/65	0.96	0.07	24,37,81,90	0
22	CLA	A	402	65/65	0.96	0.06	15,29,44,57	0
22	CLA	B	710	65/65	0.96	0.07	17,33,45,48	0
22	CLA	B	711	65/65	0.96	0.06	18,30,50,56	0
22	CLA	D	402	65/65	0.96	0.06	15,27,51,56	0
22	CLA	B	712	65/65	0.96	0.07	20,31,45,54	0
22	CLA	a	401	65/65	0.96	0.06	21,32,41,47	0
22	CLA	a	403	65/65	0.96	0.06	19,31,42,58	0
22	CLA	a	404	65/65	0.96	0.09	27,42,102,112	0
22	CLA	a	406	65/65	0.96	0.07	18,38,76,81	0
22	CLA	B	713	65/65	0.96	0.07	19,32,72,74	0
22	CLA	B	714	65/65	0.96	0.08	19,37,78,96	0
34	PHO	D	406	64/64	0.96	0.06	16,28,37,42	0
34	PHO	D	407	64/64	0.96	0.06	23,32,44,51	0
27	LHG	D	410	49/49	0.96	0.07	21,40,54,65	0
22	CLA	b	704	65/65	0.96	0.08	21,37,84,97	0
35	HEC	e	101	43/43	0.96	0.09	42,59,80,88	0
22	CLA	C	502	65/65	0.97	0.06	22,36,50,61	0
22	CLA	B	707	65/65	0.97	0.07	17,35,65,75	0
22	CLA	B	708	65/65	0.97	0.06	19,36,54,59	0
22	CLA	D	401	65/65	0.97	0.06	14,29,57,68	0
22	CLA	B	703	65/65	0.97	0.06	20,33,57,65	0
22	CLA	D	403	65/65	0.97	0.08	24,42,107,122	0
22	CLA	b	711	65/65	0.97	0.06	22,34,59,64	0
22	CLA	d	401	65/65	0.97	0.06	20,36,54,62	0
22	CLA	b	703	65/65	0.97	0.07	24,37,68,78	0
35	HEC	E	103	43/43	0.97	0.09	34,51,70,74	0
22	CLA	B	716	60/65	0.97	0.09	23,39,87,103	0
24	CL	A	406	1/1	0.98	0.04	29,29,29,29	0
22	CLA	A	404	54/65	0.98	0.05	17,31,61,68	0
35	HEC	V	201	43/43	0.98	0.06	17,33,43,50	0
30	OEX	A	415[A]	10/10	0.98	0.04	32,35,38,40	10
35	HEC	v	201	43/43	0.98	0.06	26,37,51,52	0
30	OEX	a	420[A]	10/10	0.99	0.03	29,35,39,39	10
31	OEY	A	416[B]	11/11	0.99	0.03	14,24,29,31	11
24	CL	a	408	1/1	0.99	0.04	28,28,28,28	0
24	CL	a	409	1/1	0.99	0.07	28,28,28,28	0
24	CL	A	407	1/1	0.99	0.06	27,27,27,27	0

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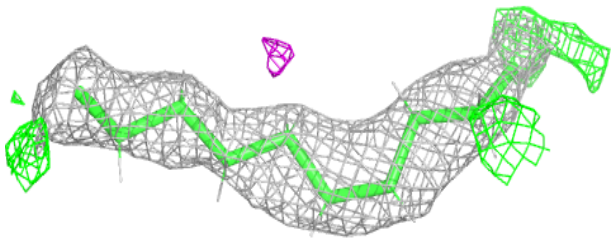
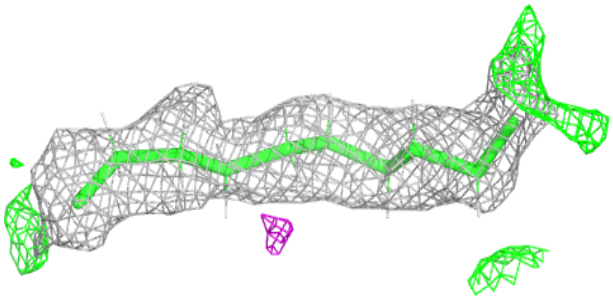
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
31	OEY	a	421[B]	11/11	1.00	0.02	19,25,29,33	11
21	FE2	A	401	1/1	1.00	0.01	29,29,29,29	0
21	FE2	a	402	1/1	1.00	0.02	33,33,33,33	0

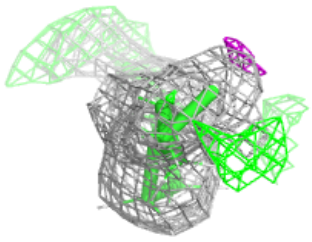
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around STE b 726:

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

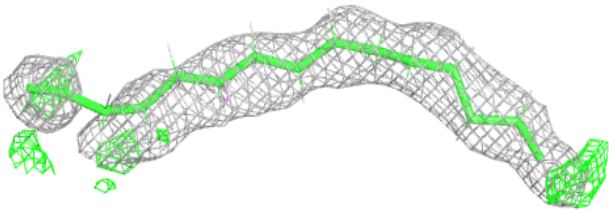


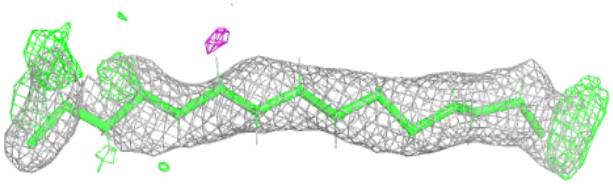


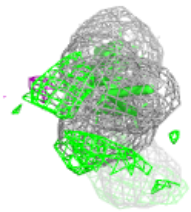


Electron density around STE I 101:

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

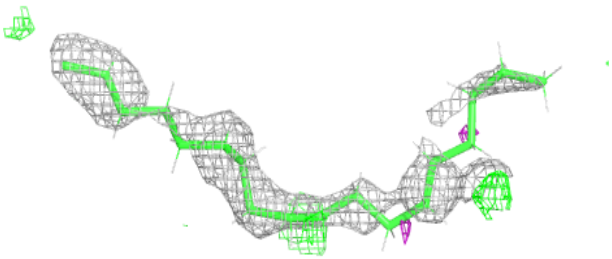


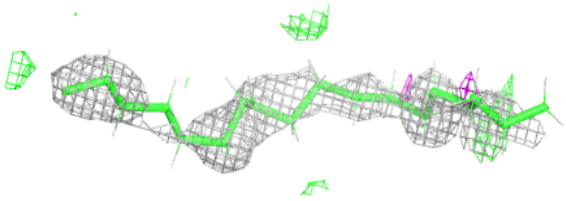


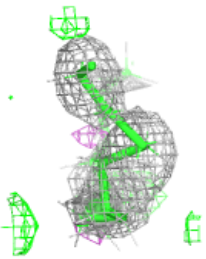


Electron density around STE H 104:

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

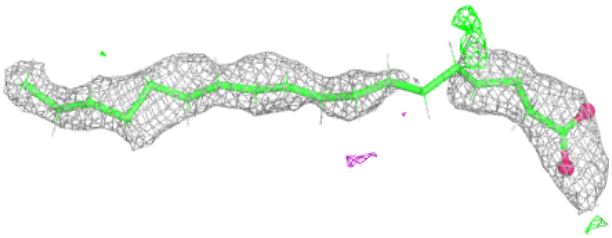


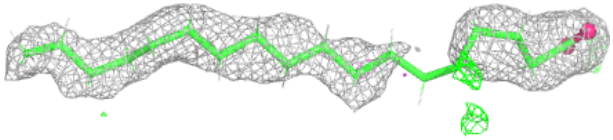


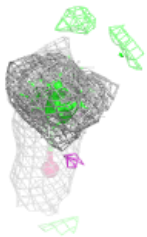


Electron density around STE b 725:

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

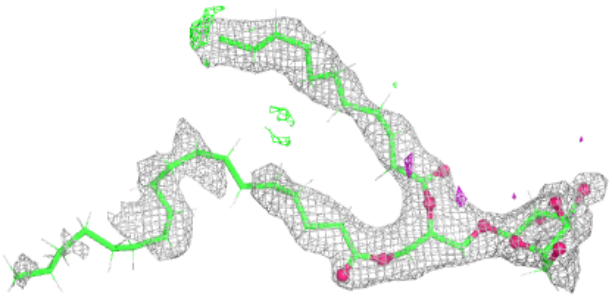


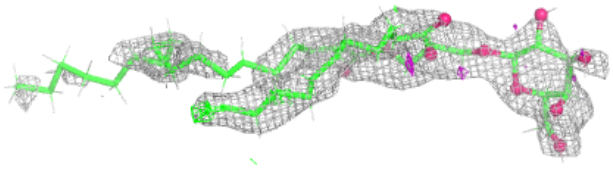




Electron density around LMG c 522:

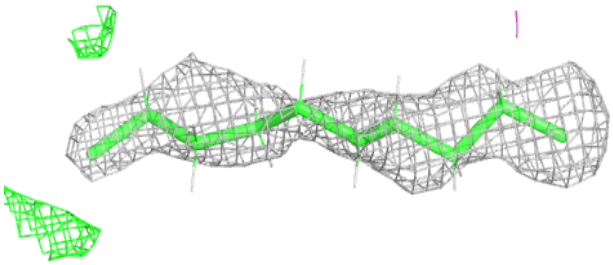
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

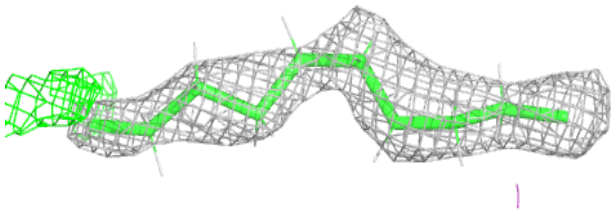


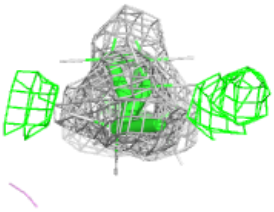


Electron density around STE a 416:

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

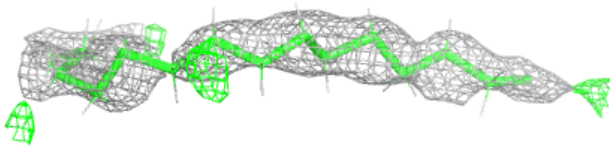


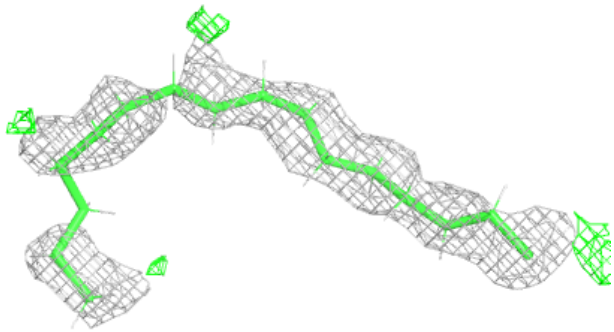


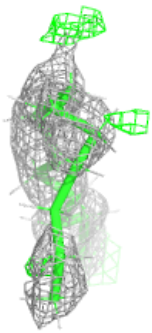


Electron density around STE B 726:

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

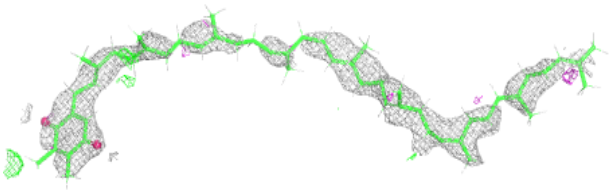


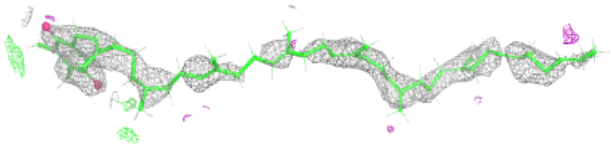


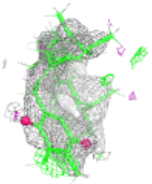


Electron density around PL9 A 408:

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

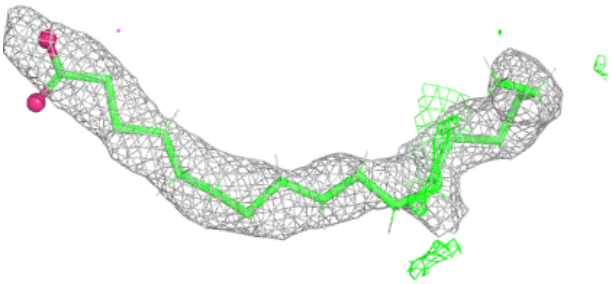


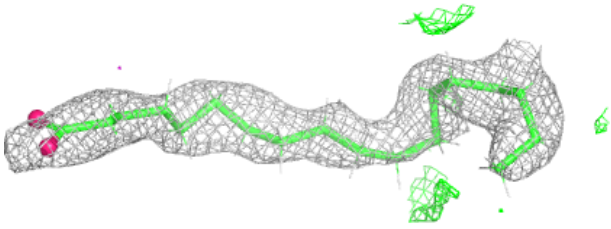


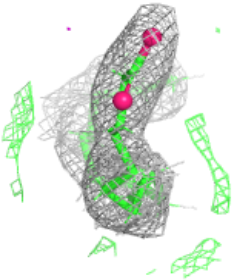


Electron density around STE b 727:

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

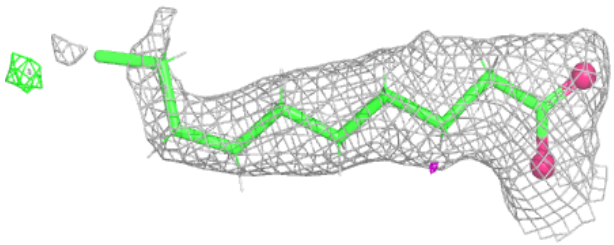


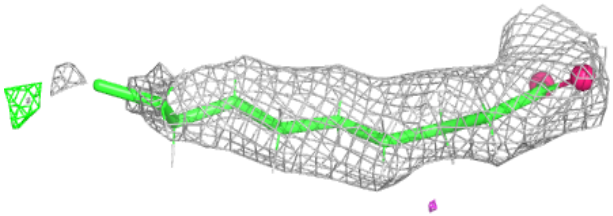


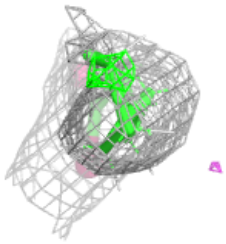


Electron density around STE c 501:

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

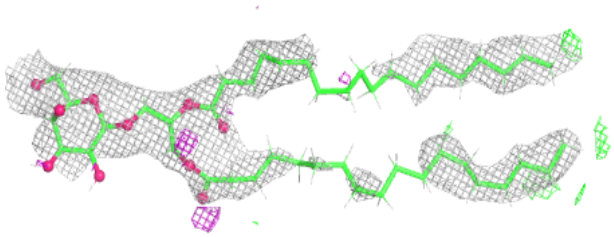


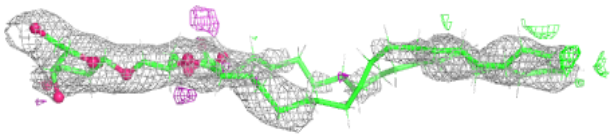


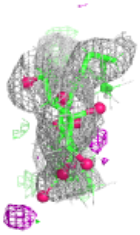


Electron density around LMG b 723:

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

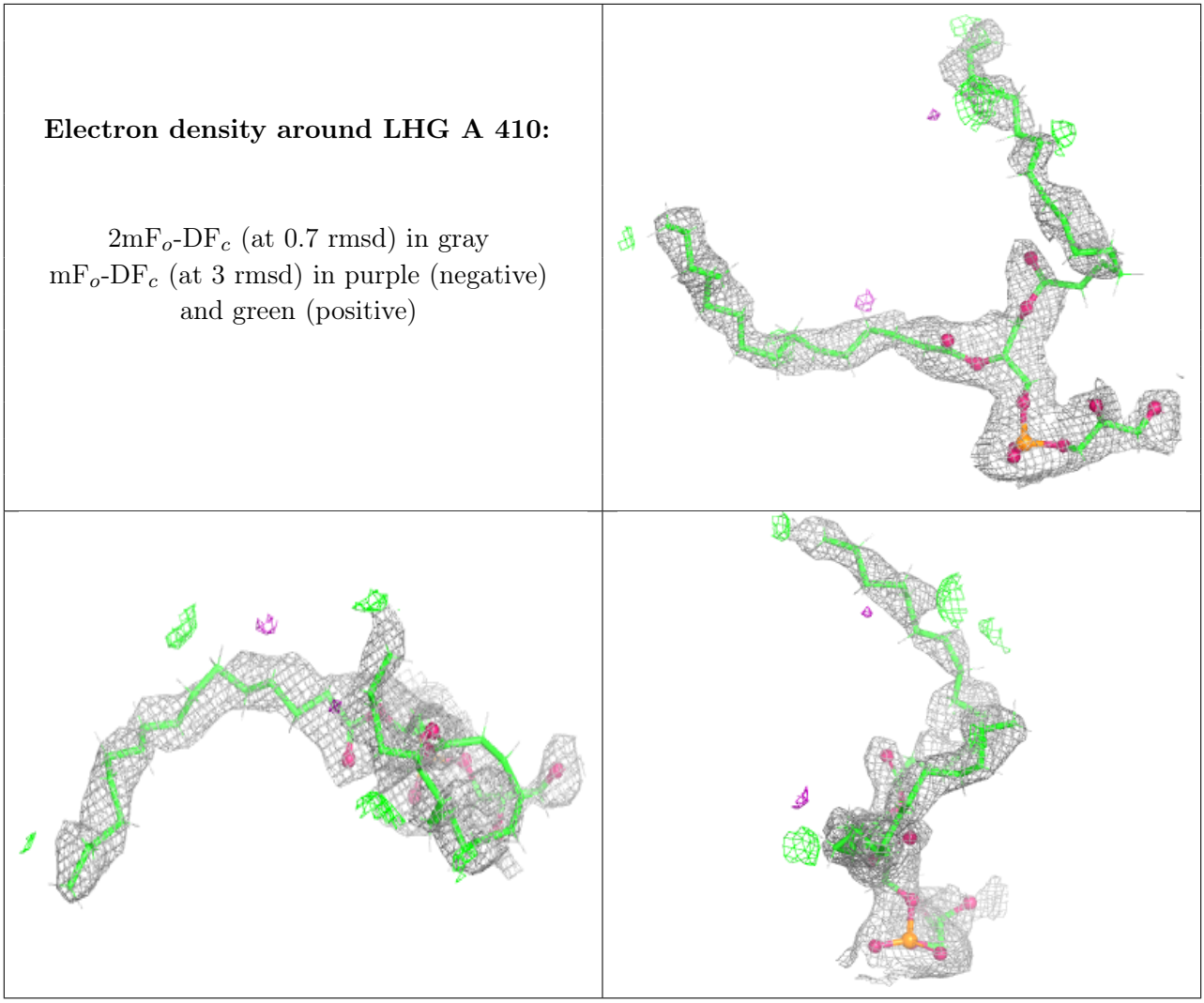






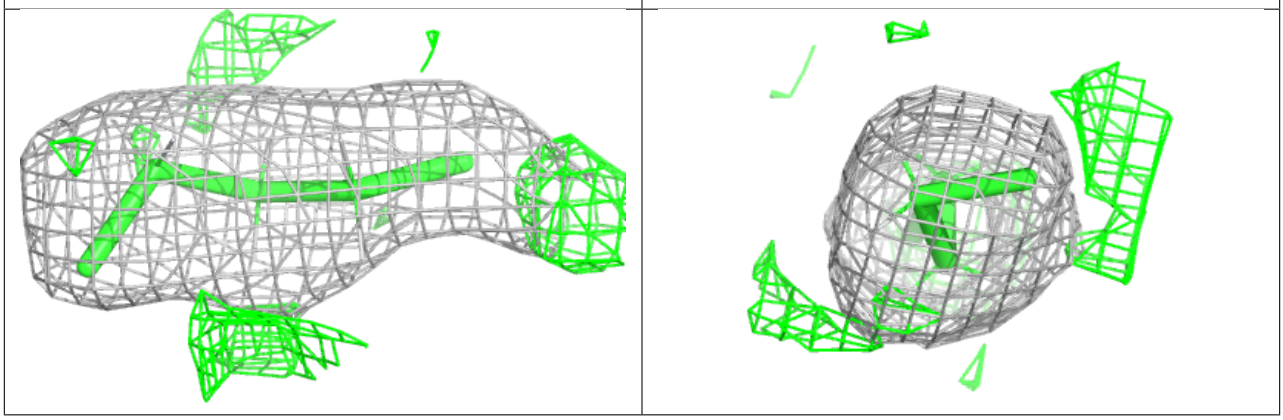
Electron density around LHG A 410:

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



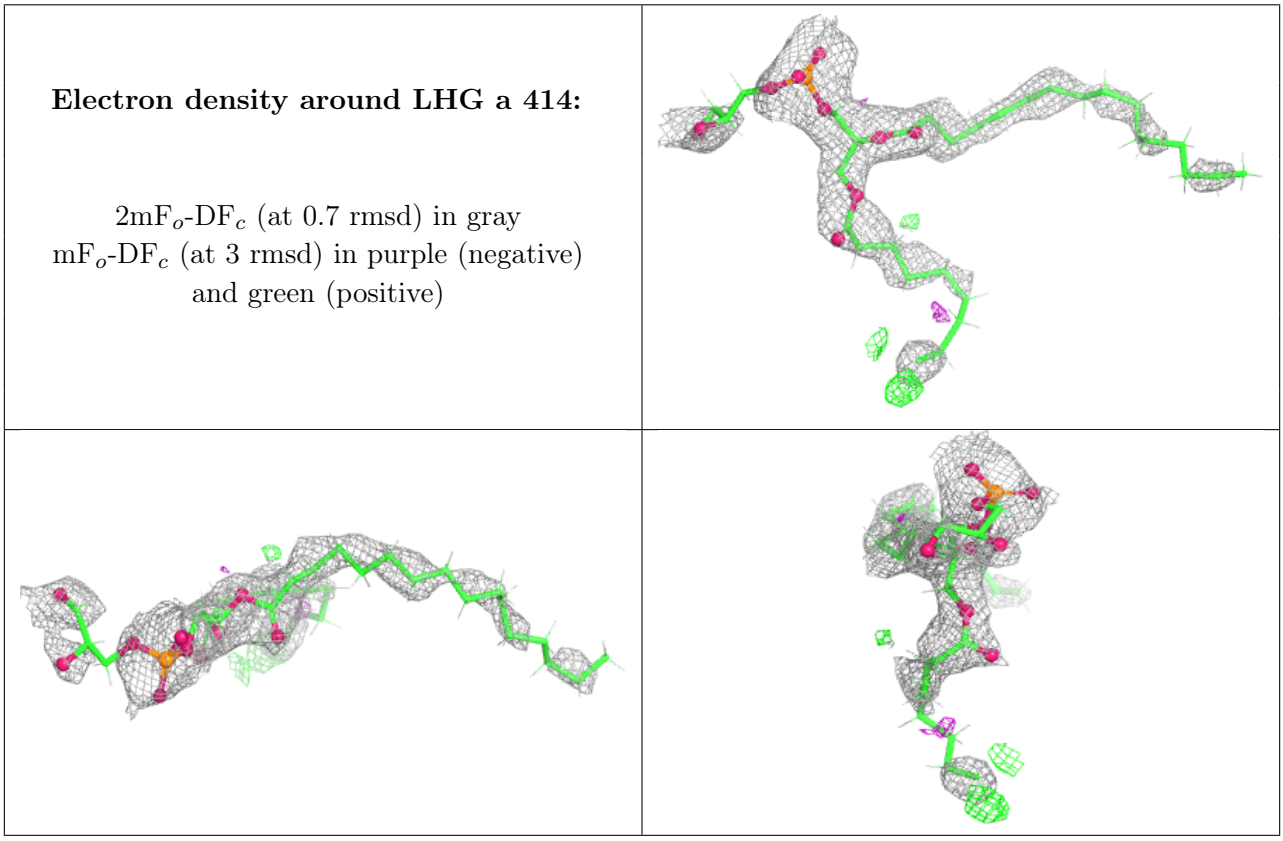
Electron density around STE A 414:

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



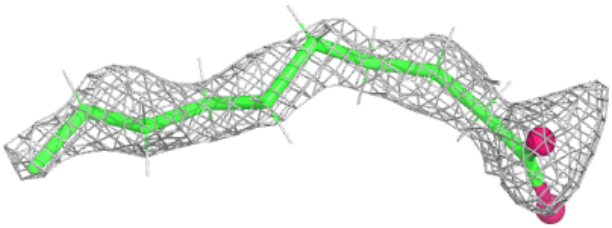
Electron density around LHG a 414:

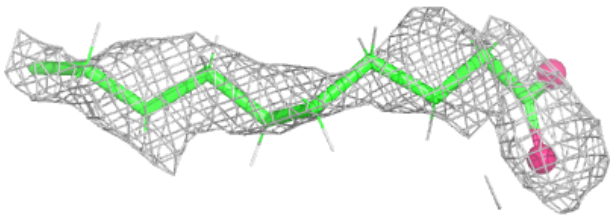
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

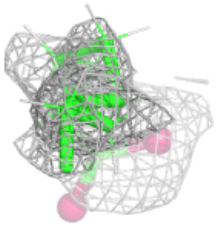


Electron density around STE E 101:

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

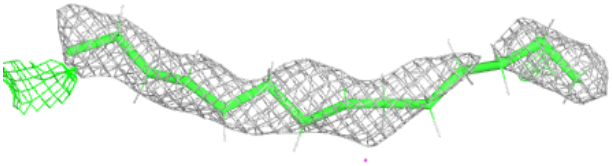


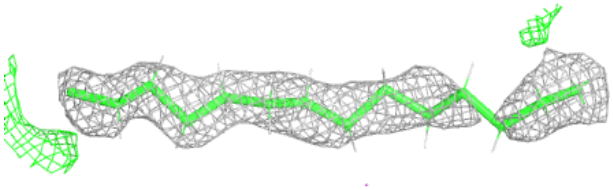


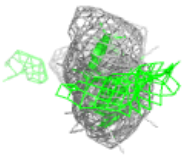


Electron density around STE h 703:

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

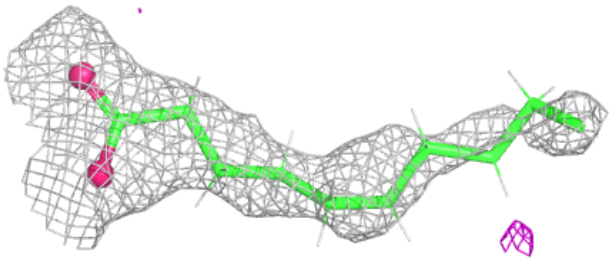


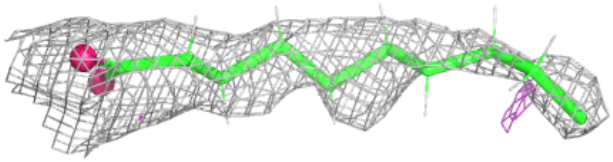


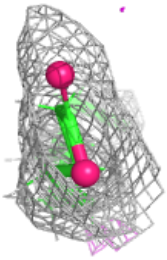


Electron density around STE a 417:

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

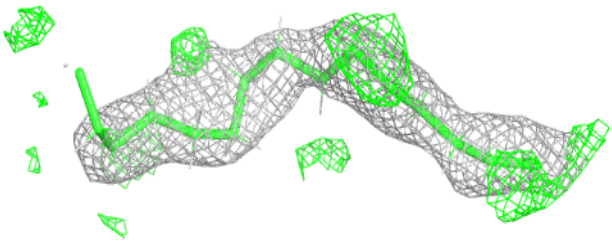


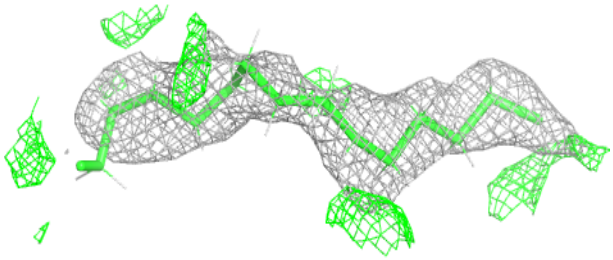


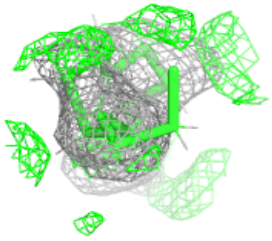


Electron density around STE a 418:

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

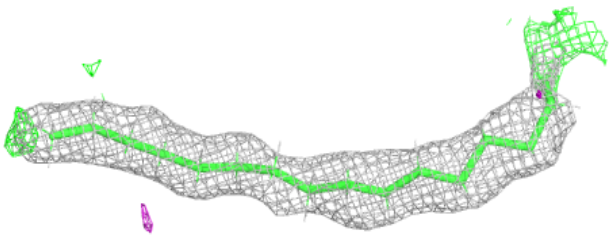


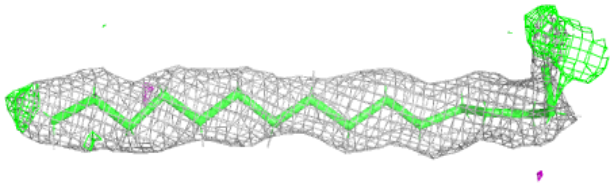


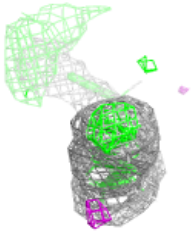


Electron density around STE C 522:

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

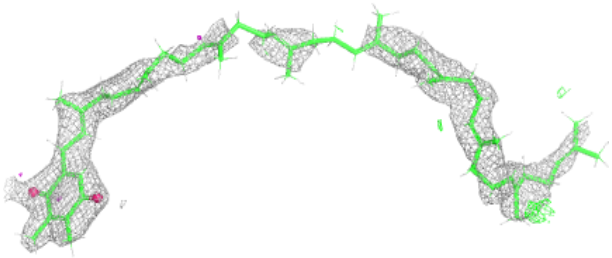


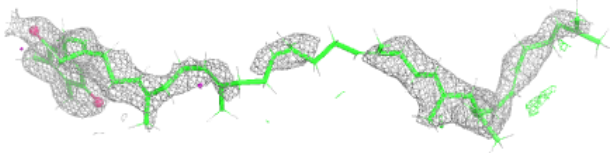


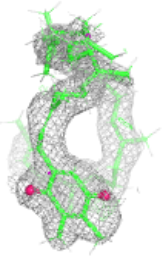


Electron density around PL9 a 411:

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

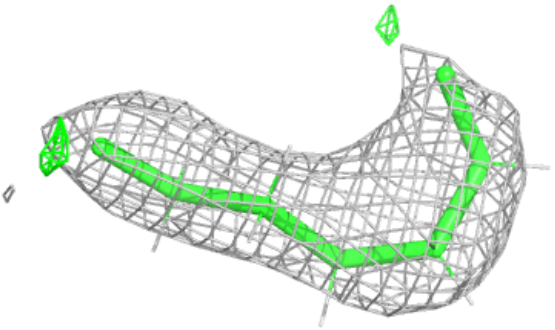


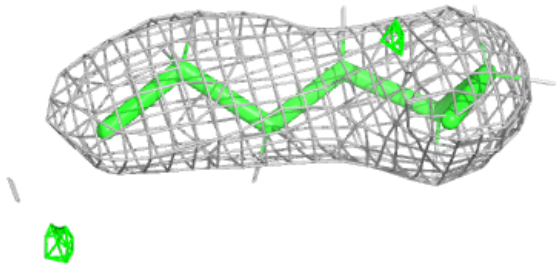


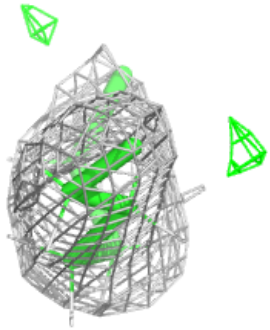


Electron density around STE E 102:

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

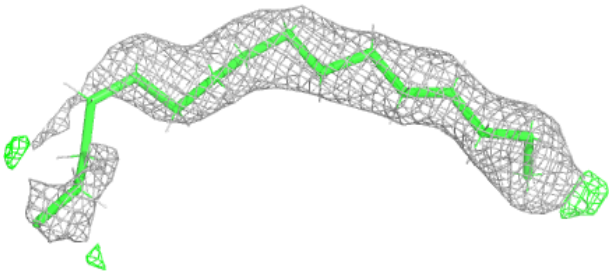


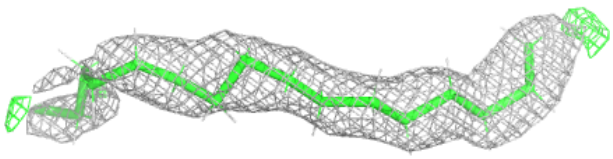


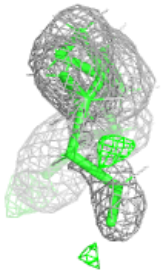


Electron density around STE A 411:

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

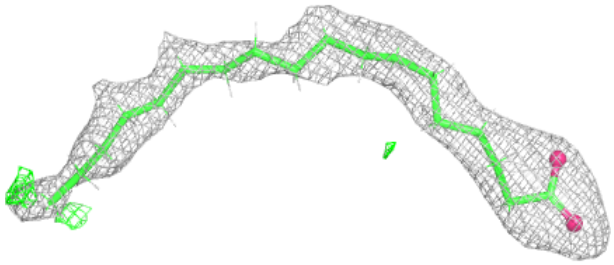


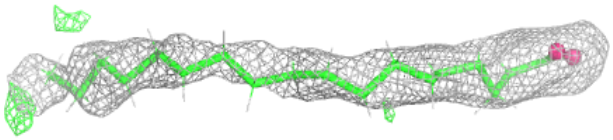


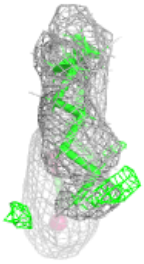


Electron density around STE x 101:

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

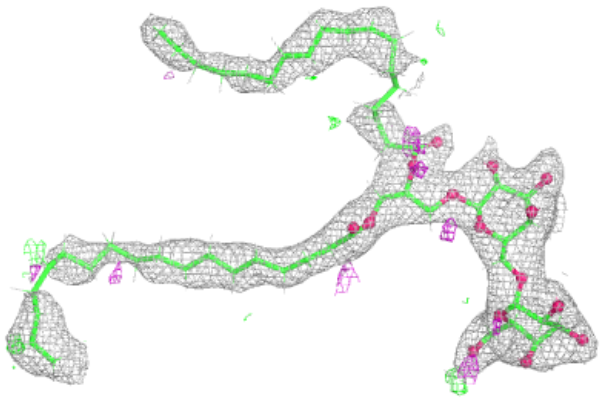


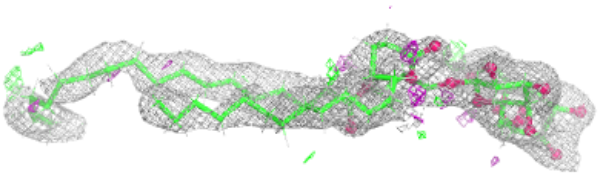


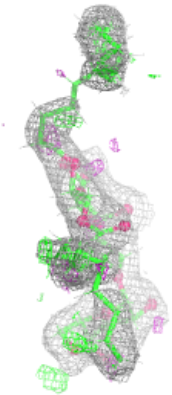


Electron density around DGD A 413:

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

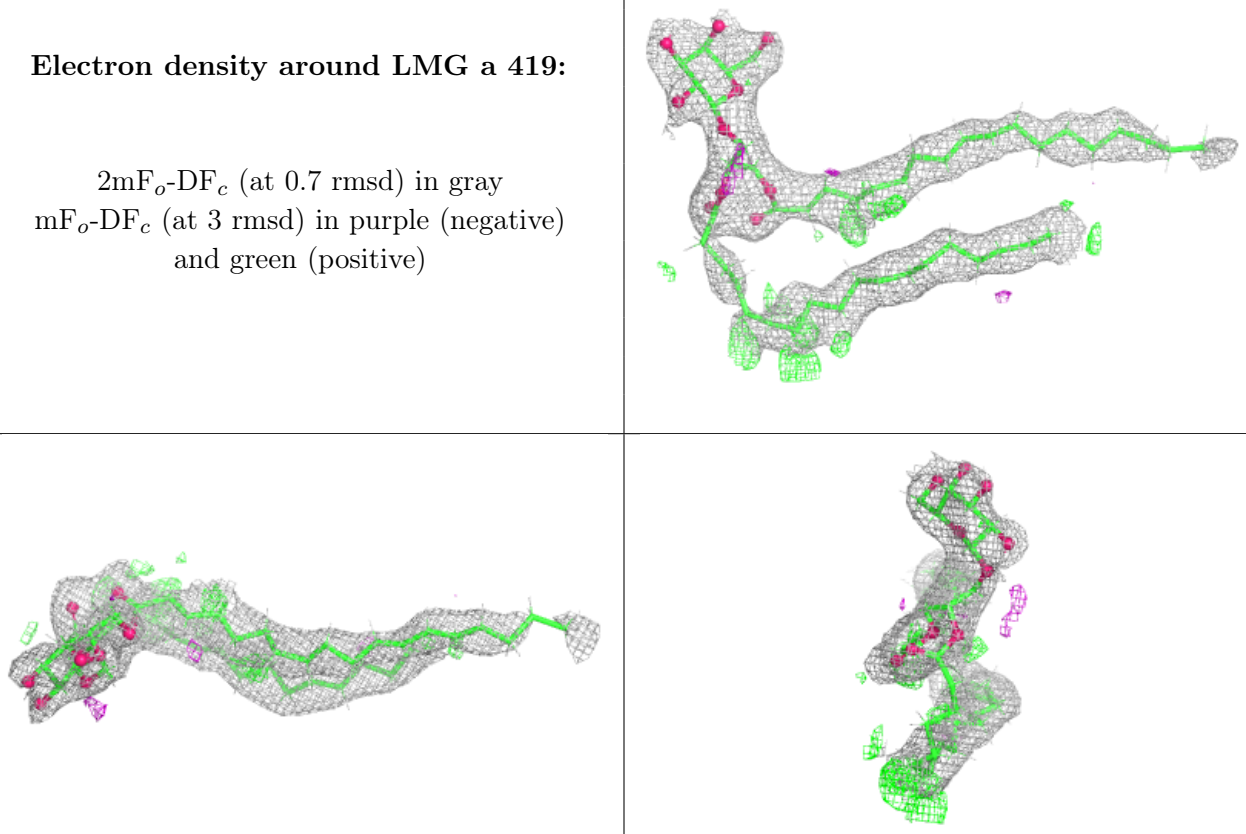






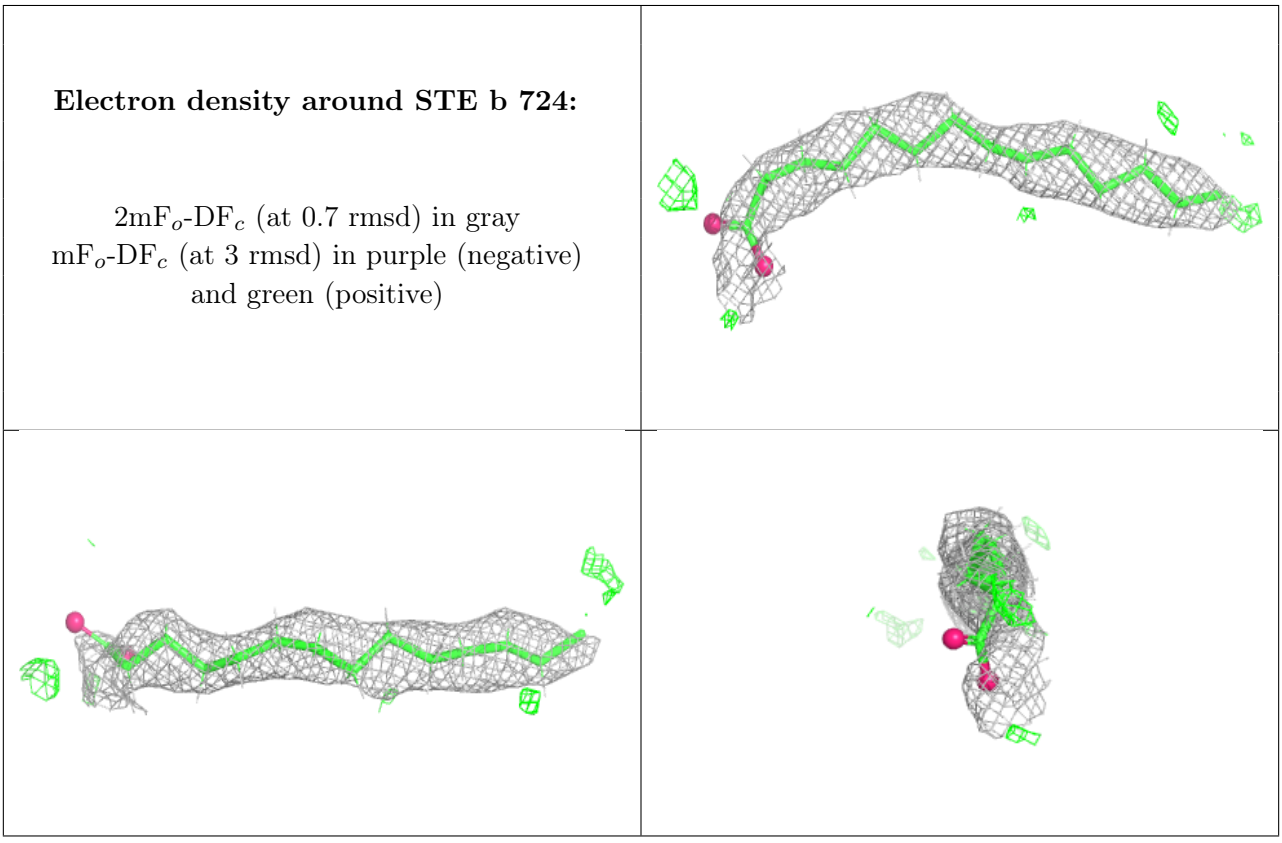
Electron density around LMG a 419:

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



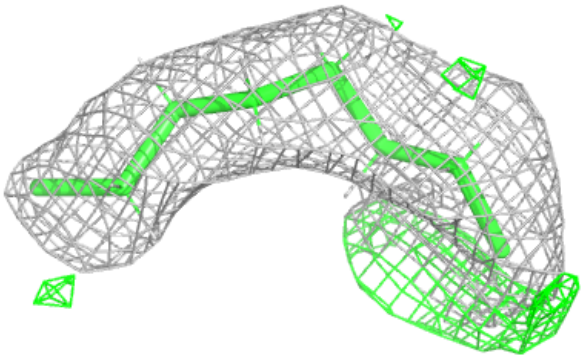
Electron density around STE b 724:

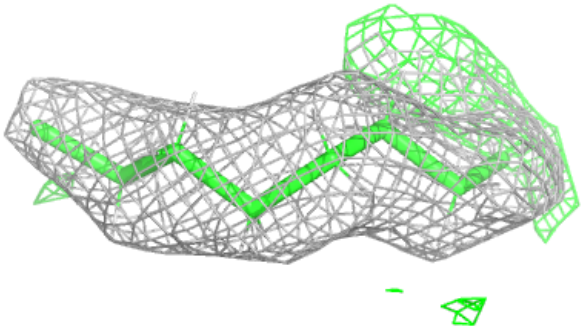
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

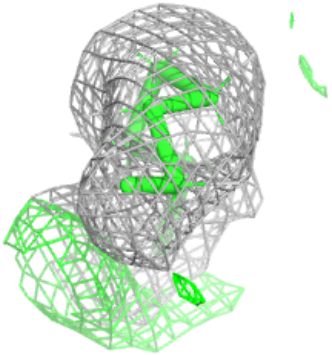


Electron density around STE H 105:

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

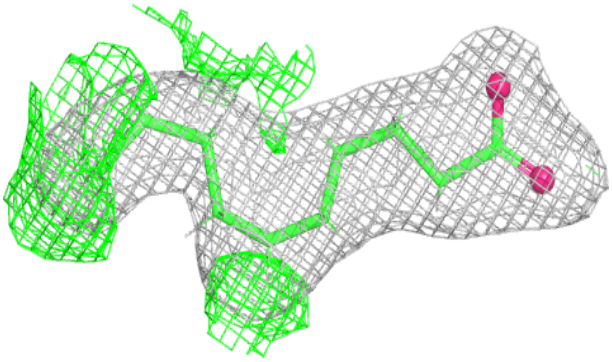


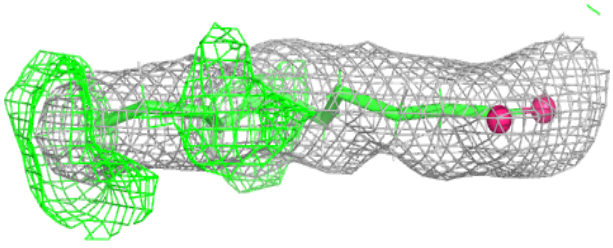


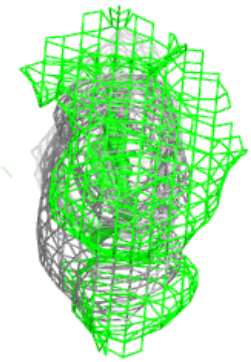


Electron density around STE C 523:

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

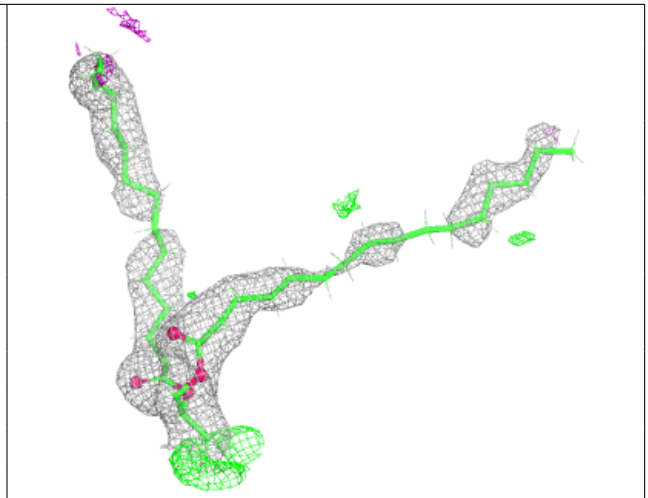


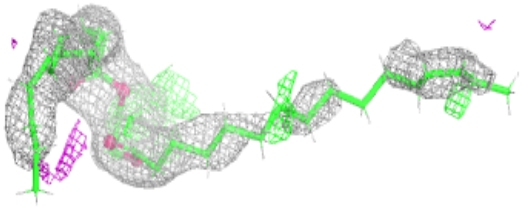


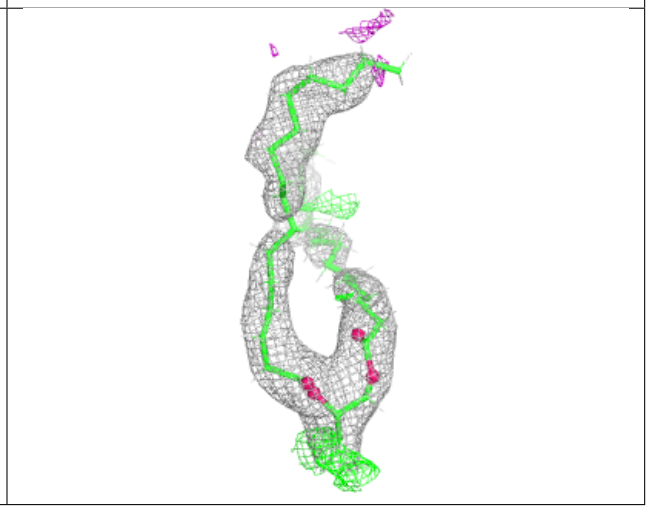


Electron density around SQD A 412:

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

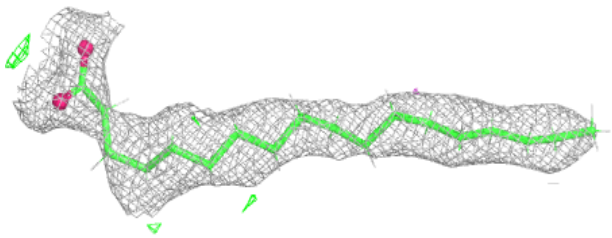


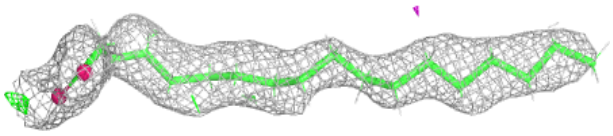


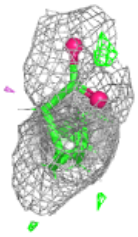


Electron density around STE c 521:

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

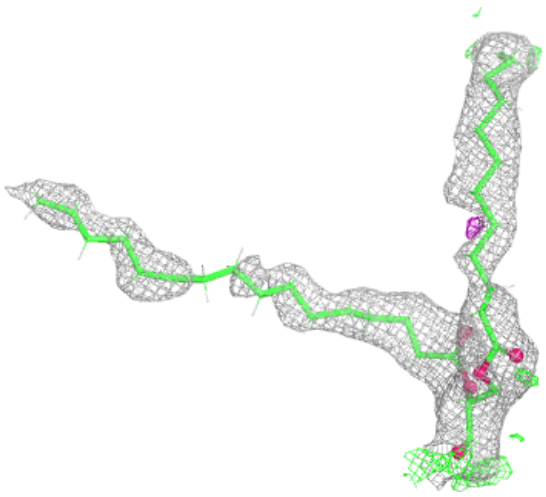


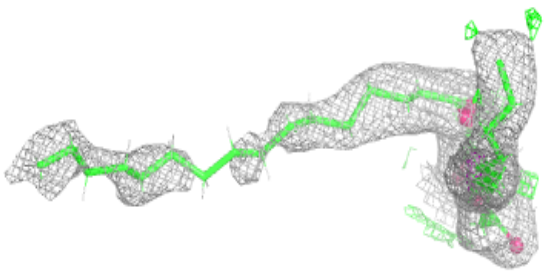


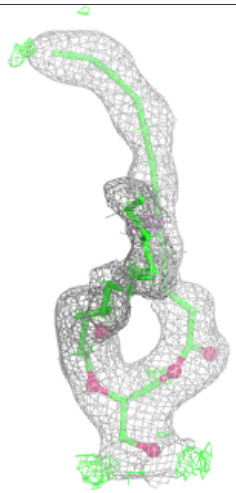


Electron density around SQD a 415:

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

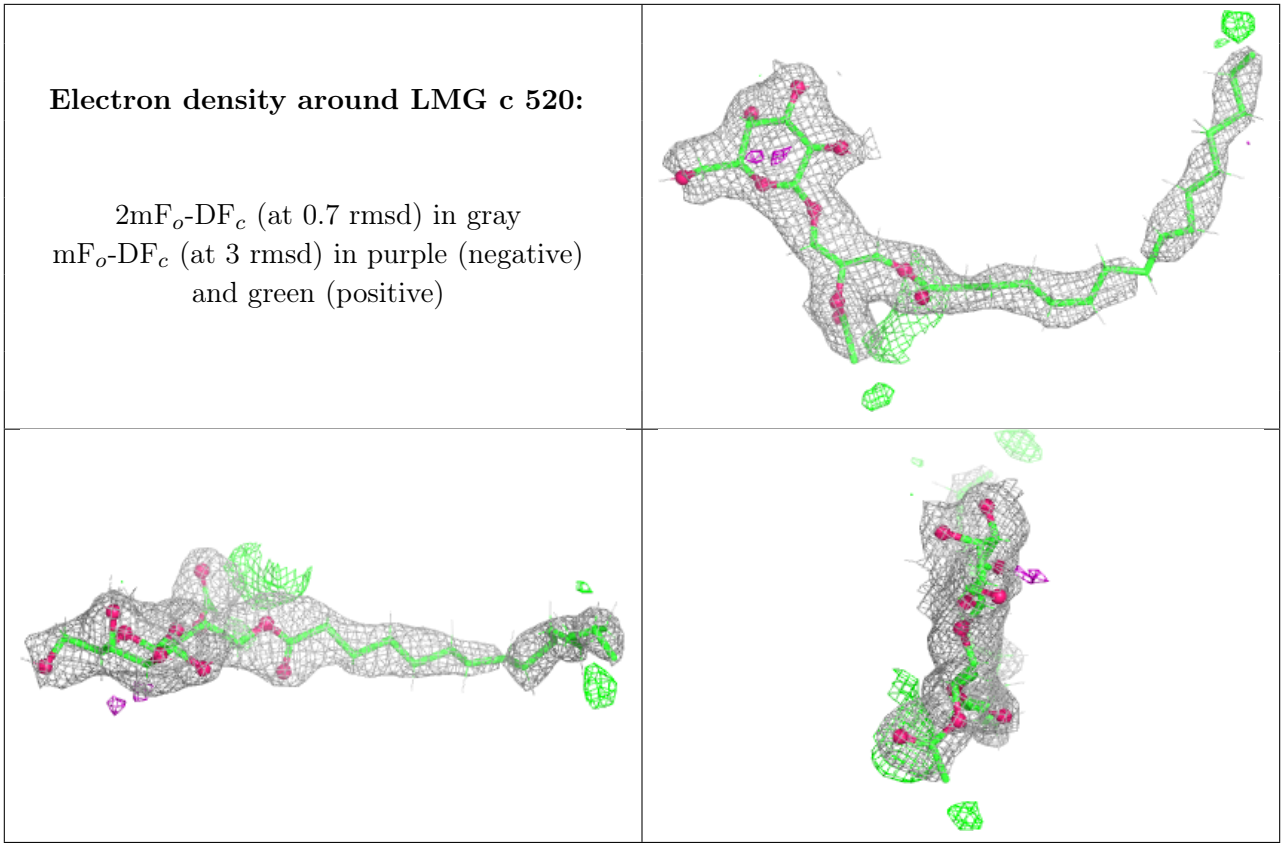






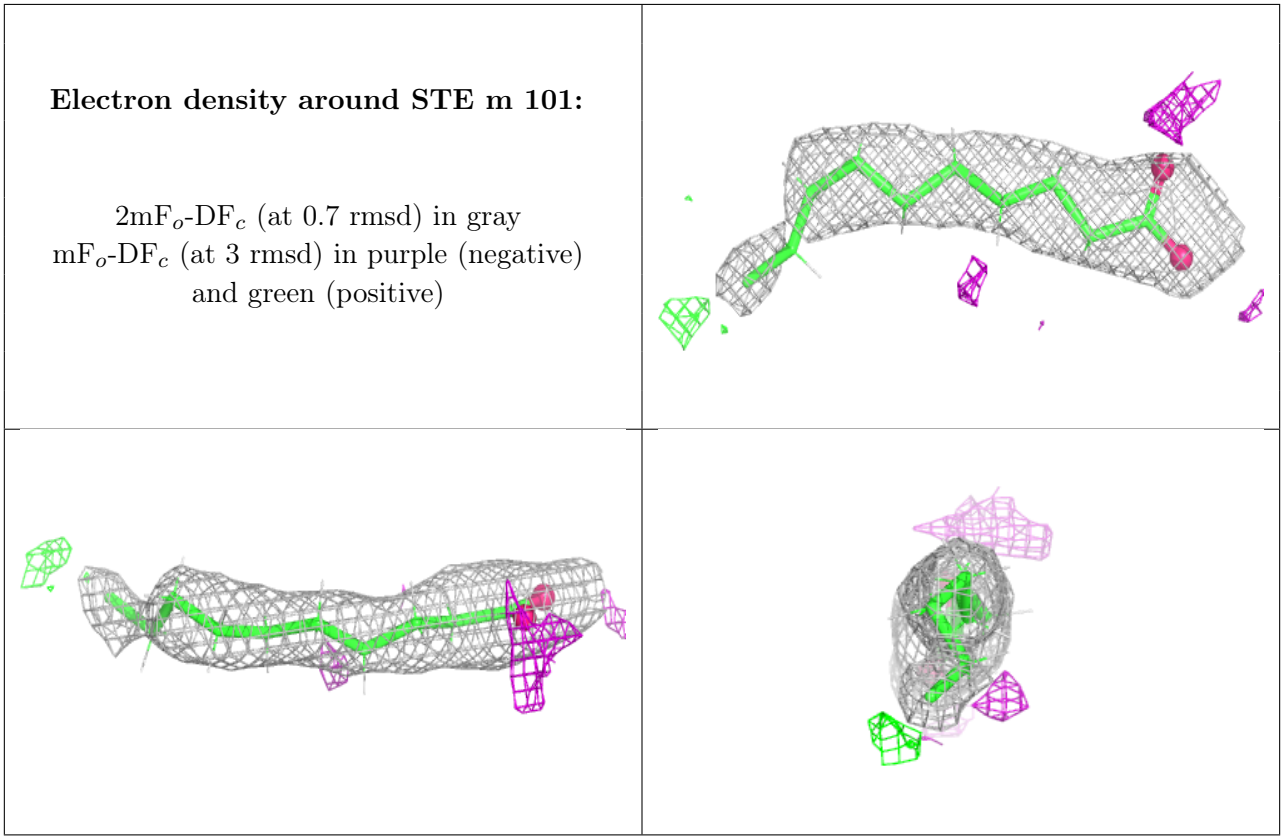
Electron density around LMG c 520:

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



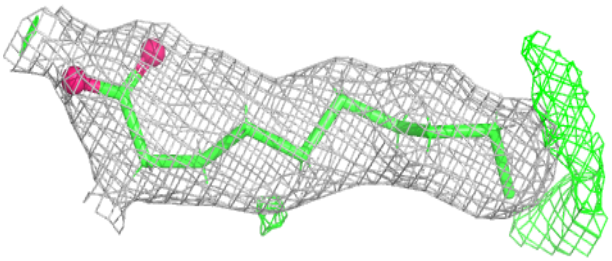
Electron density around STE m 101:

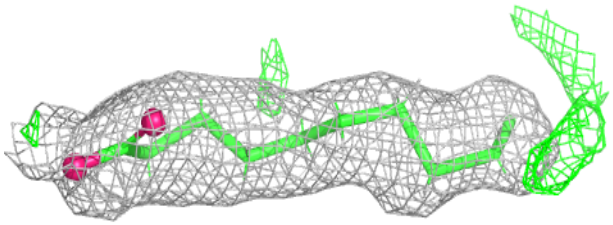
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

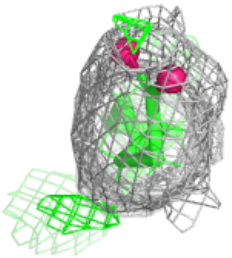


Electron density around STE J 101:

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

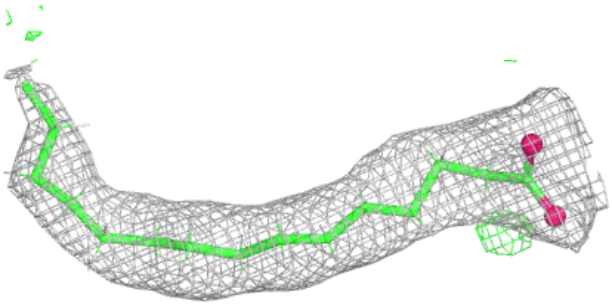


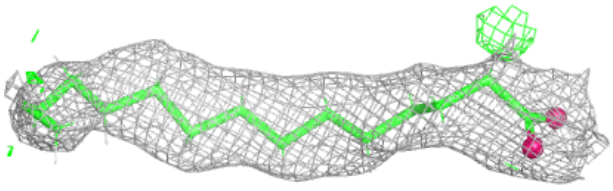


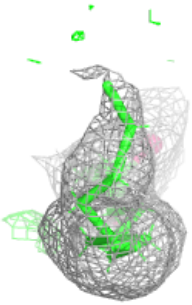


Electron density around STE B 720:

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

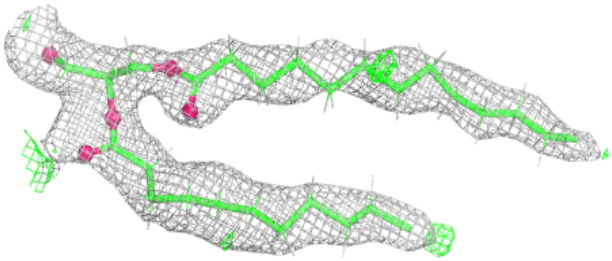


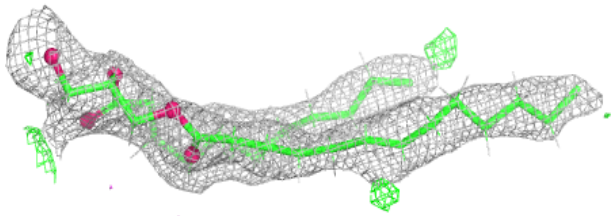


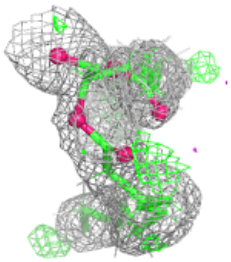


Electron density around LMG D 412:

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

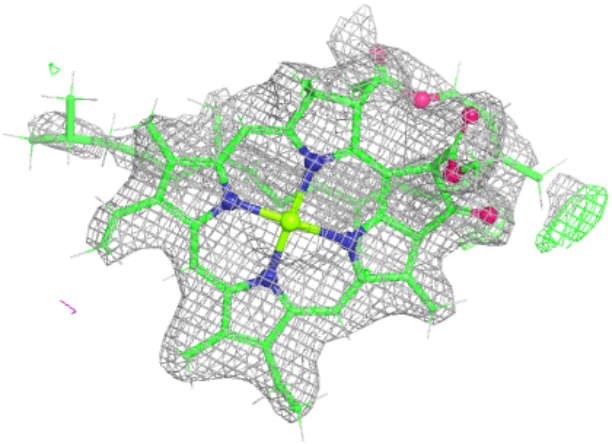


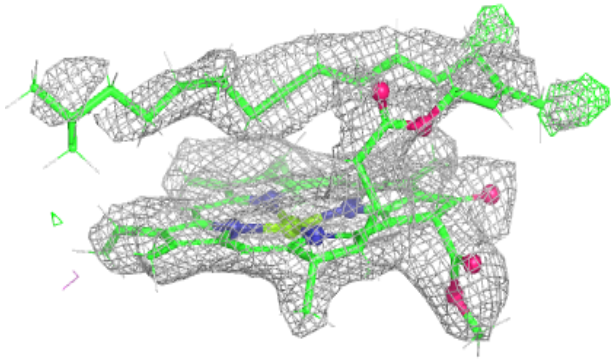




Electron density around CLA b 701:

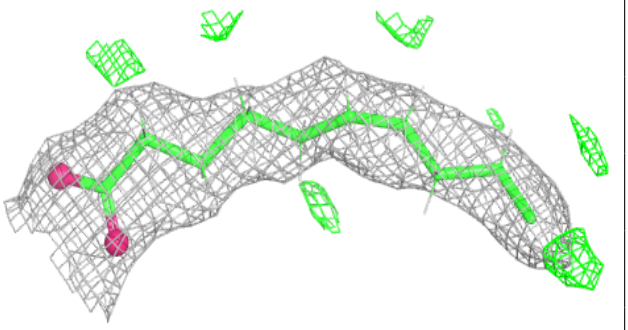
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

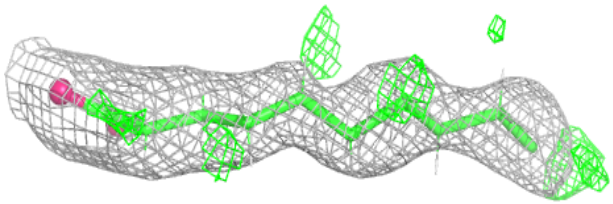


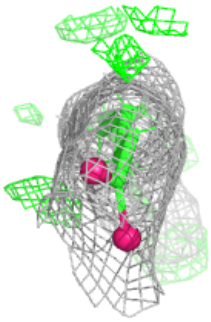


Electron density around STE C 521:

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

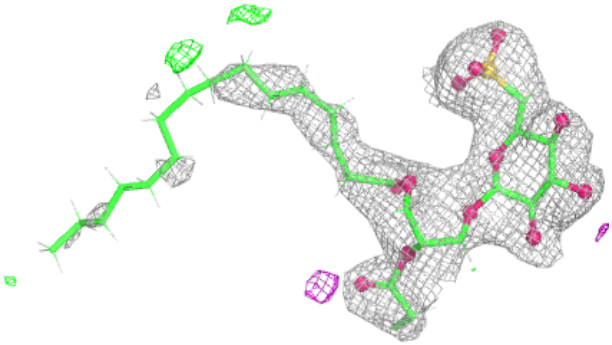


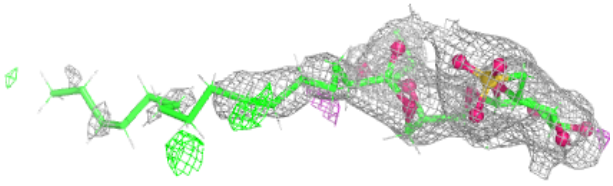


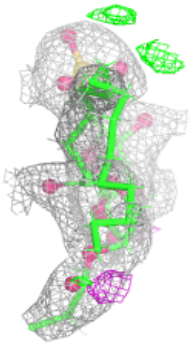


Electron density around SQD f 101:

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

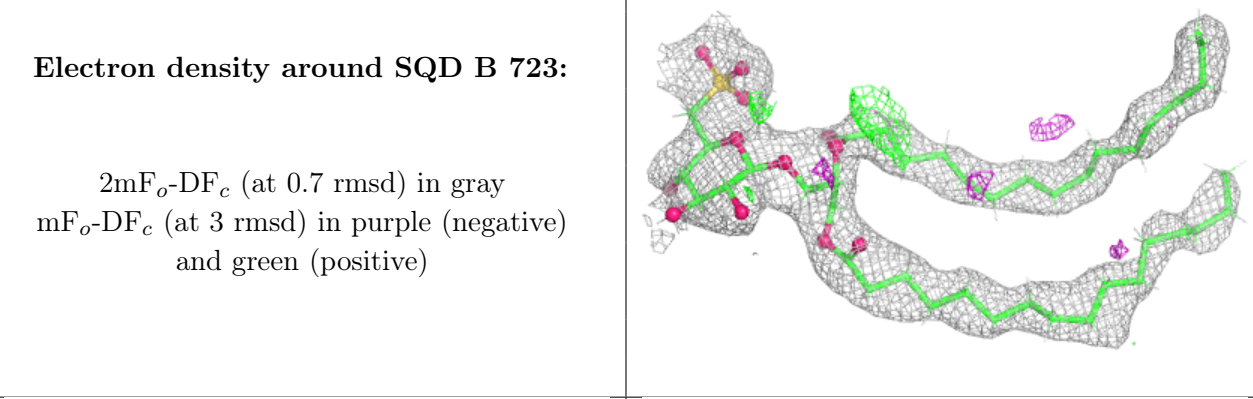






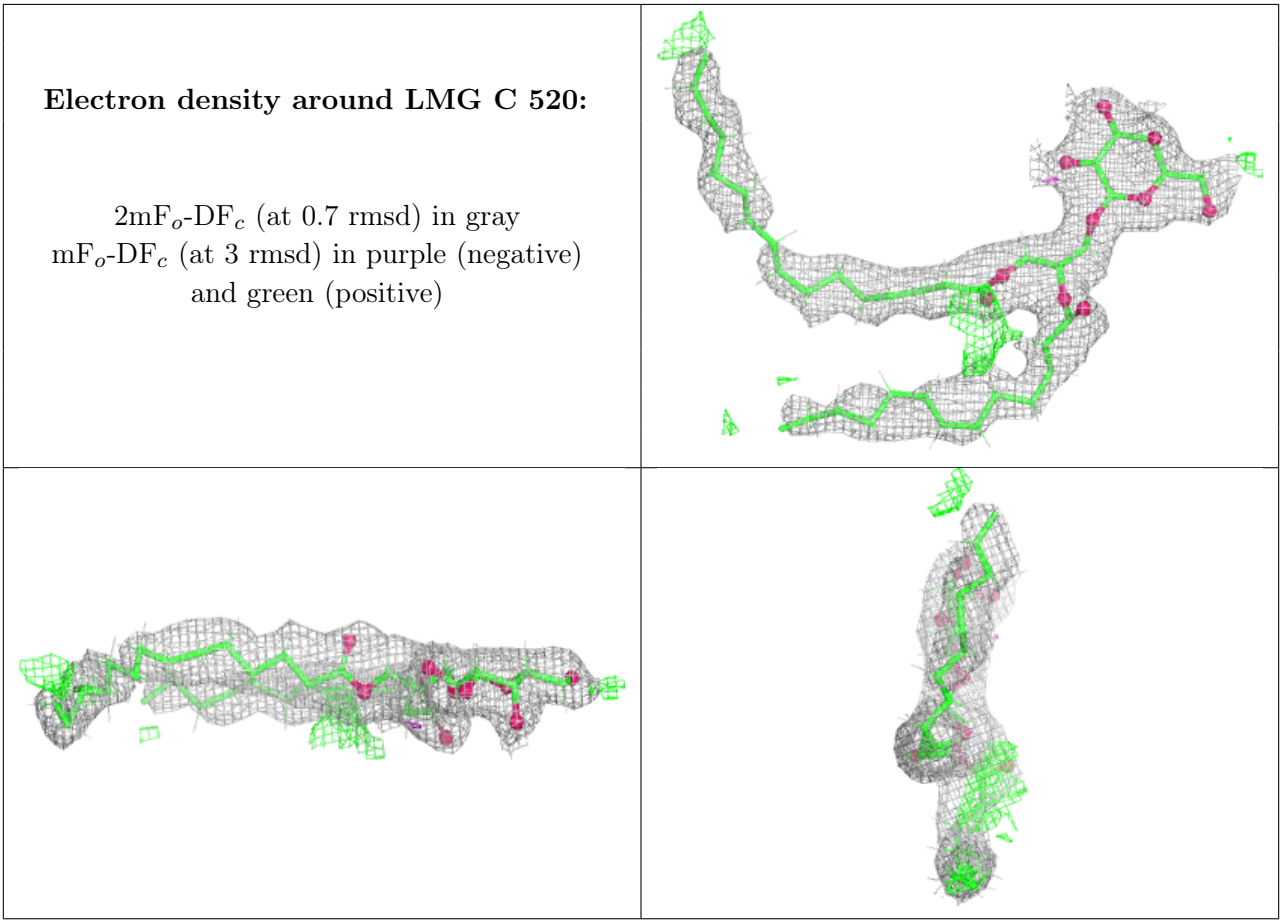
Electron density around SQD B 723:

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



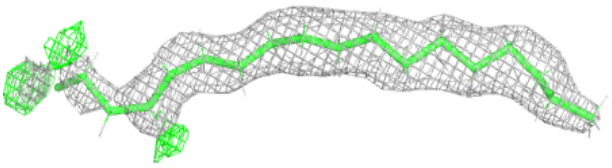
Electron density around LMG C 520:

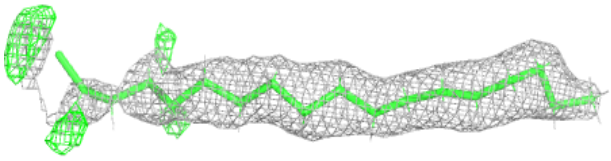
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

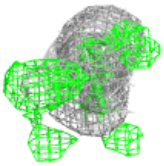


Electron density around STE l 102:

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

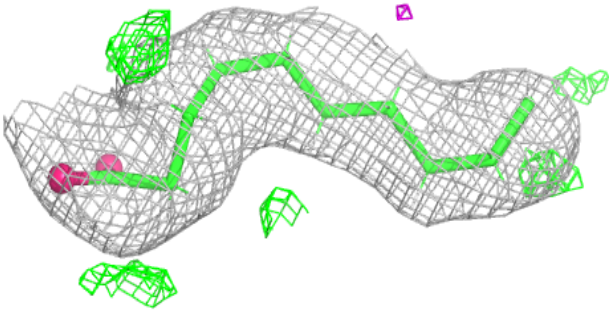


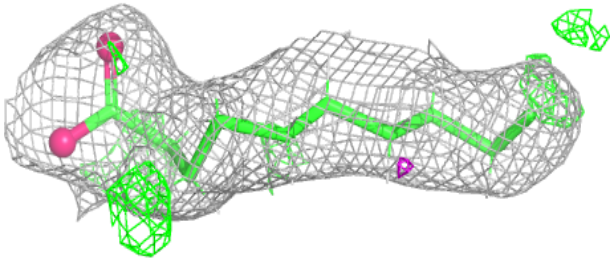


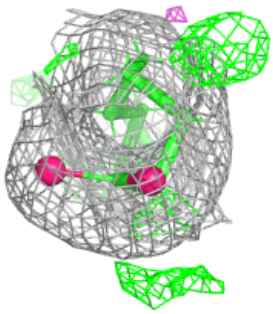


Electron density around STE B 724:

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

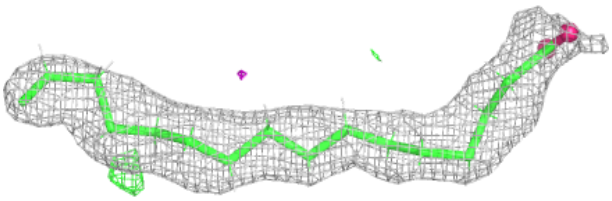


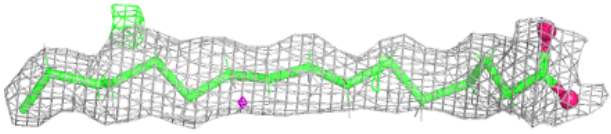


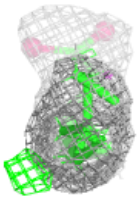


Electron density around STE B 725:

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

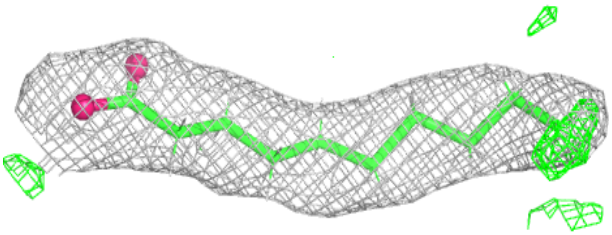


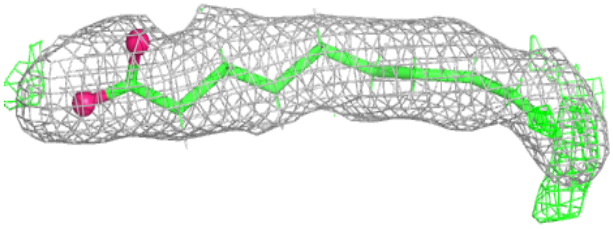


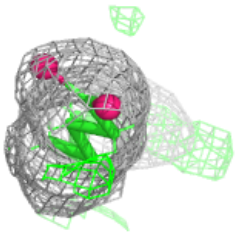


Electron density around STE j 101:

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

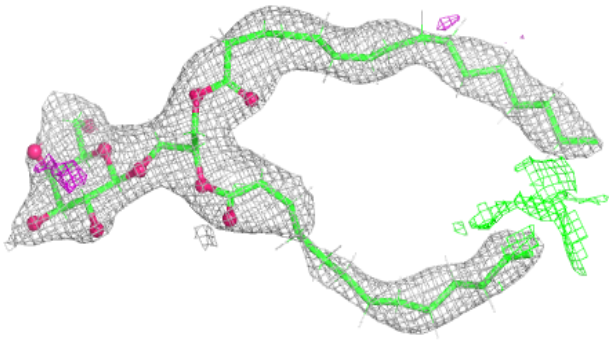


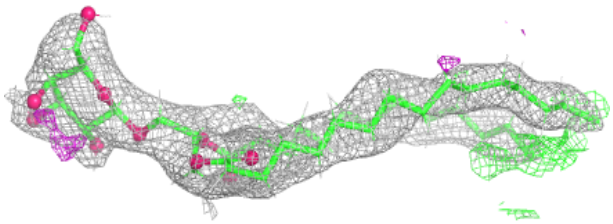




Electron density around LMG C 516:

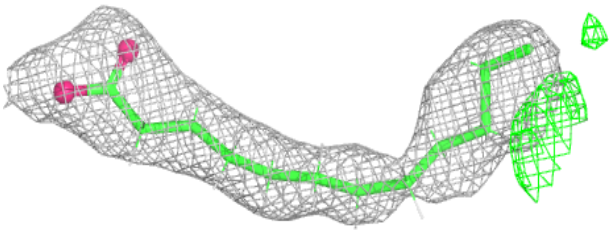
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

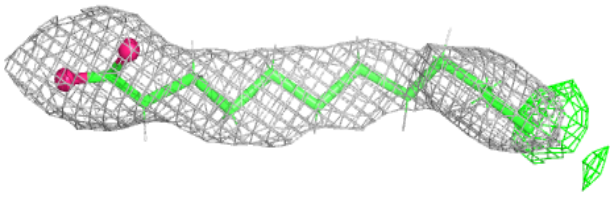


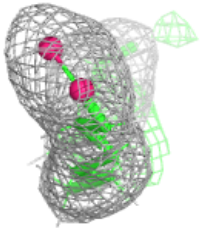


Electron density around STE t 702:

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

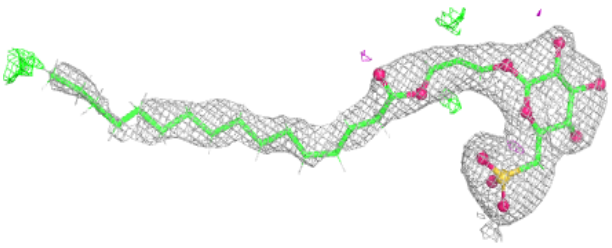


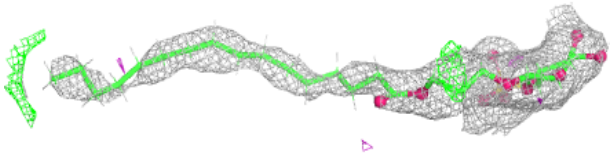


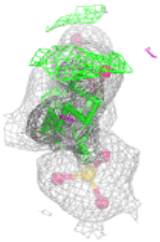


Electron density around SQD D 409:

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

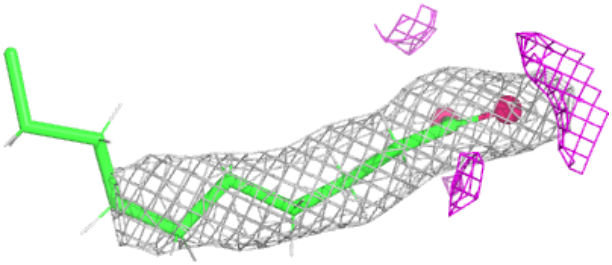


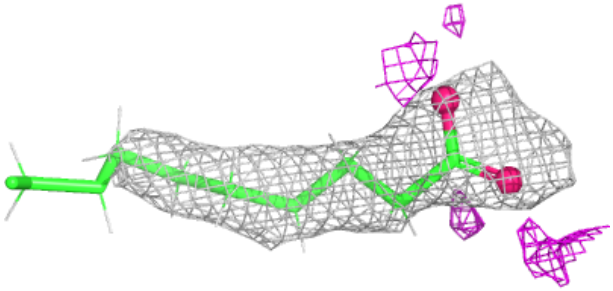


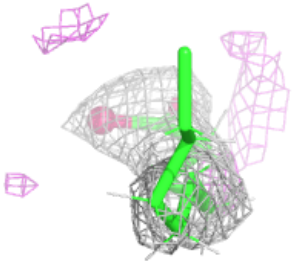


Electron density around STE B 701:

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

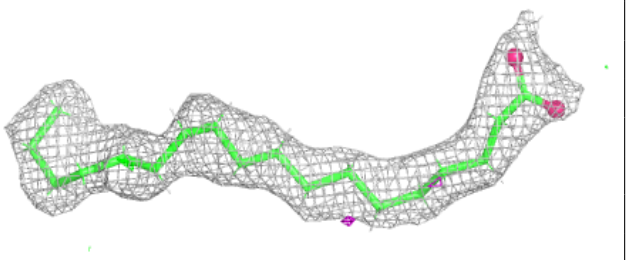


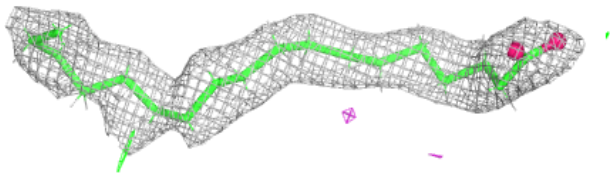


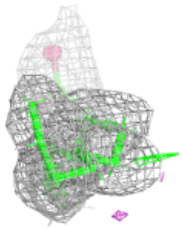


Electron density around STE b 722:

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

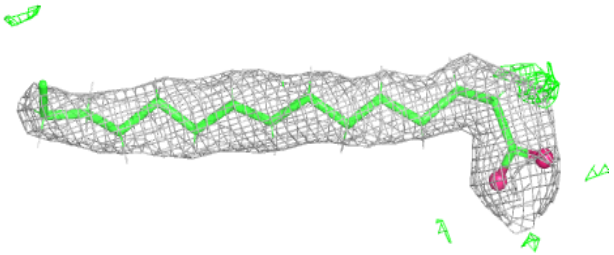


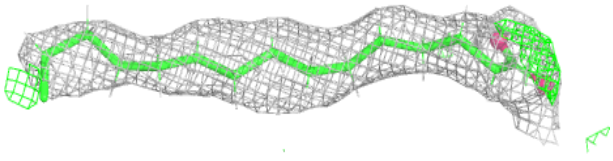


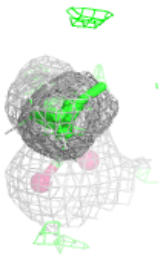


Electron density around STE d 409:

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

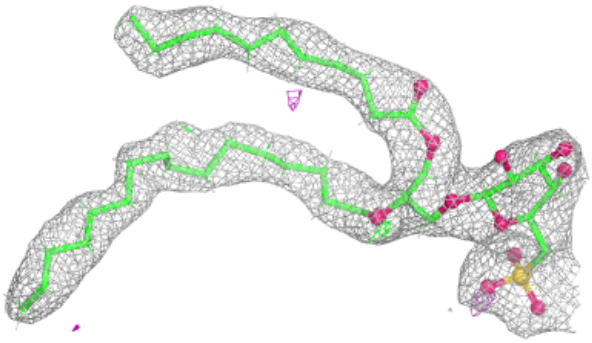


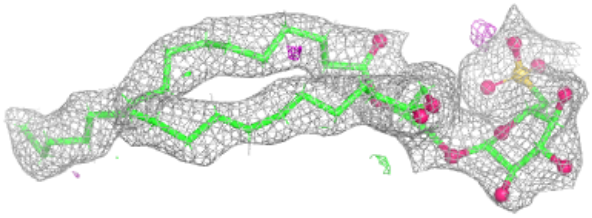


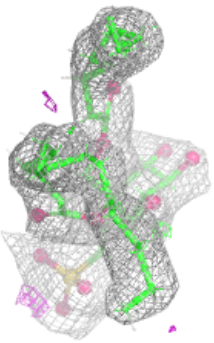


Electron density around SQD b 720:

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

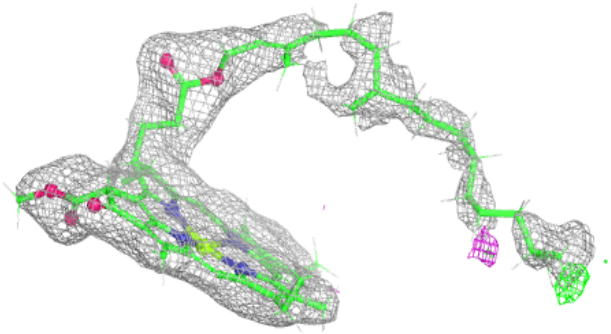


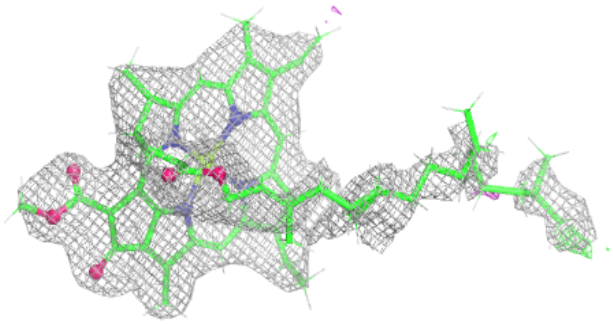


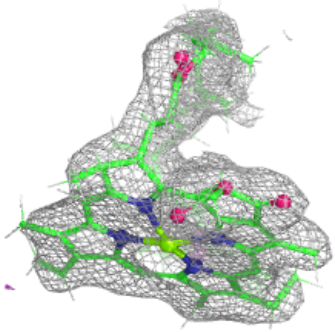


Electron density around CLA C 514:

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

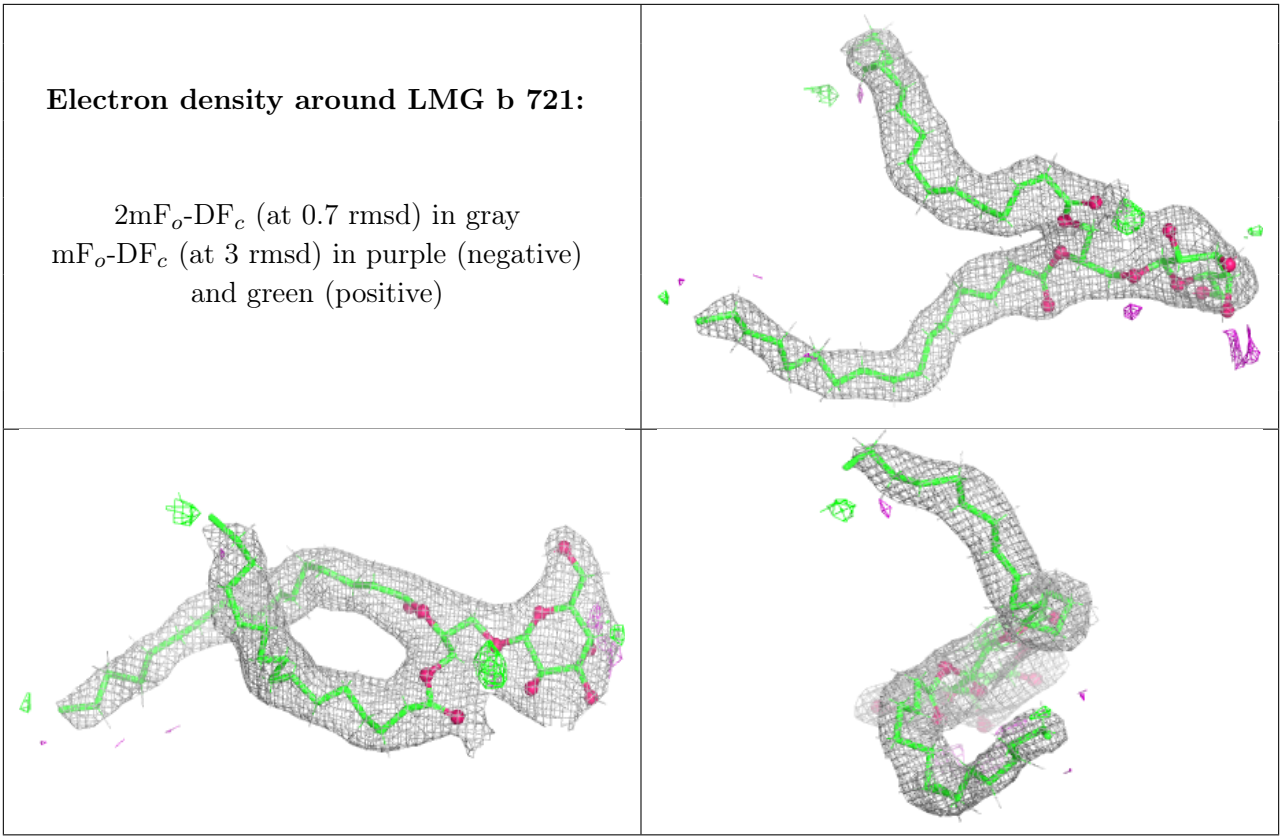






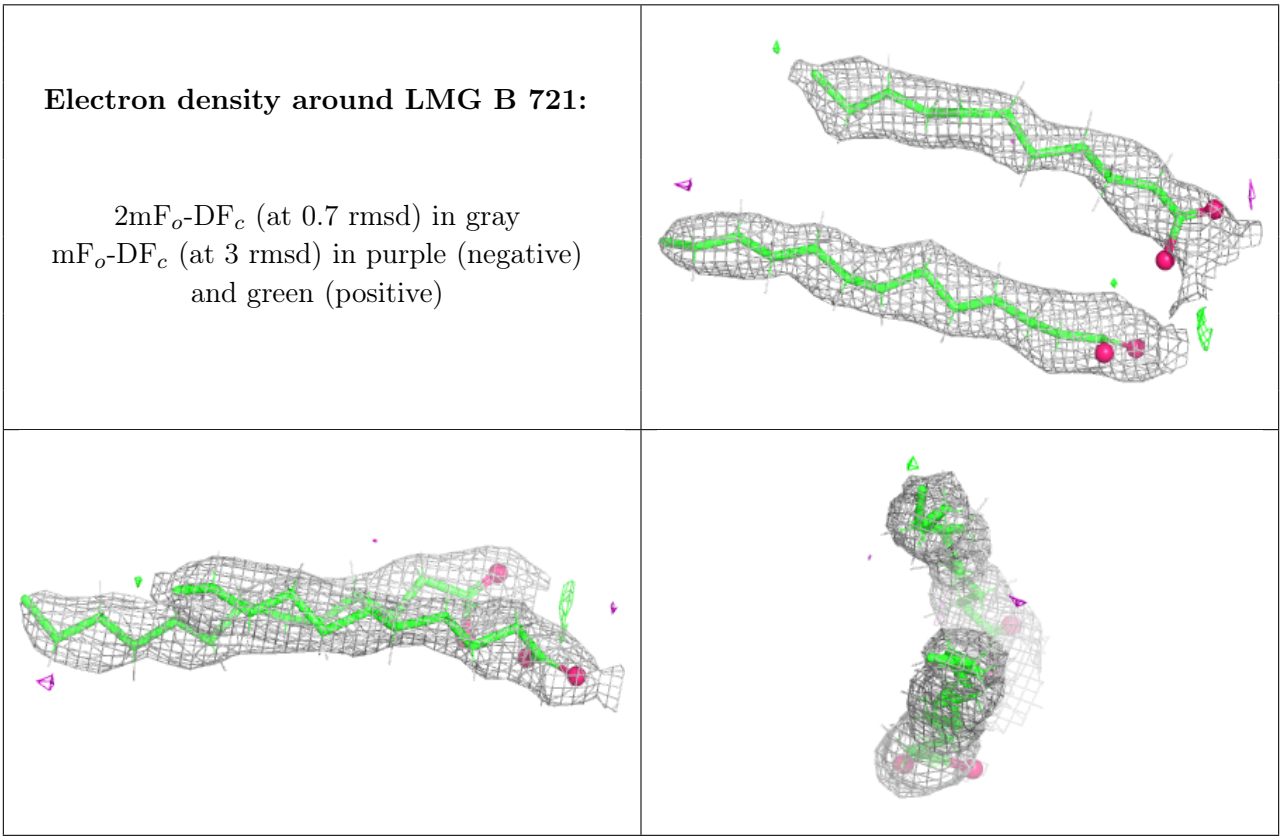
Electron density around LMG b 721:

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



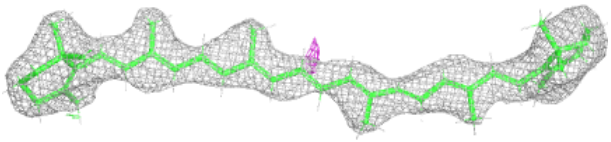
Electron density around LMG B 721:

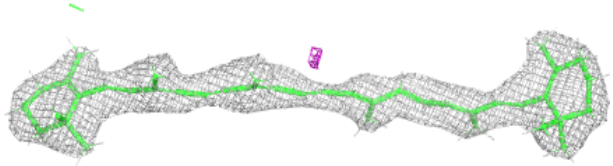
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

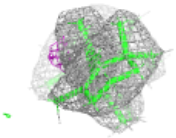


Electron density around BCR c 515:

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

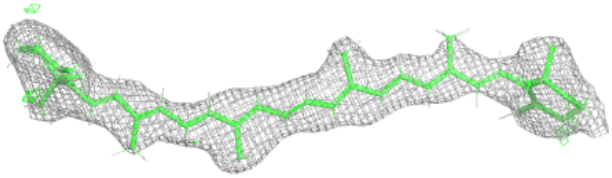


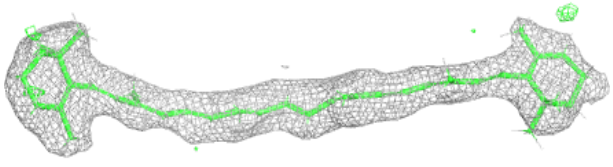


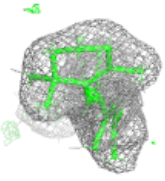


Electron density around BCR h 701:

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

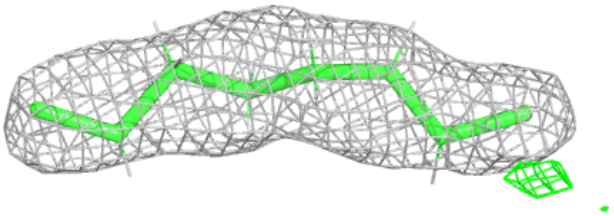


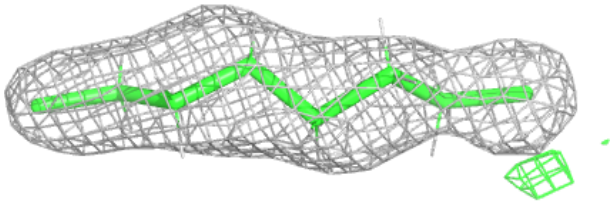


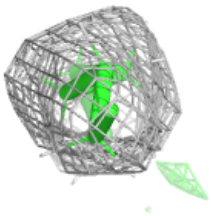


Electron density around STE Z 101:

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

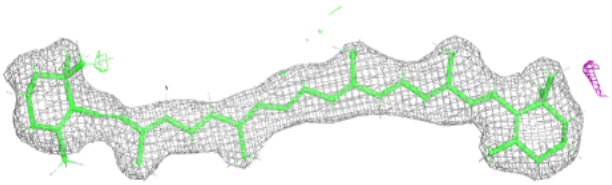


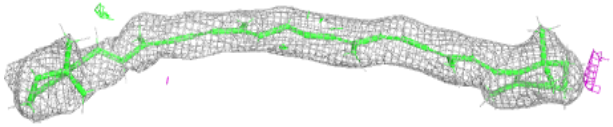


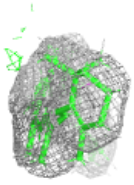


Electron density around BCR d 403:

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

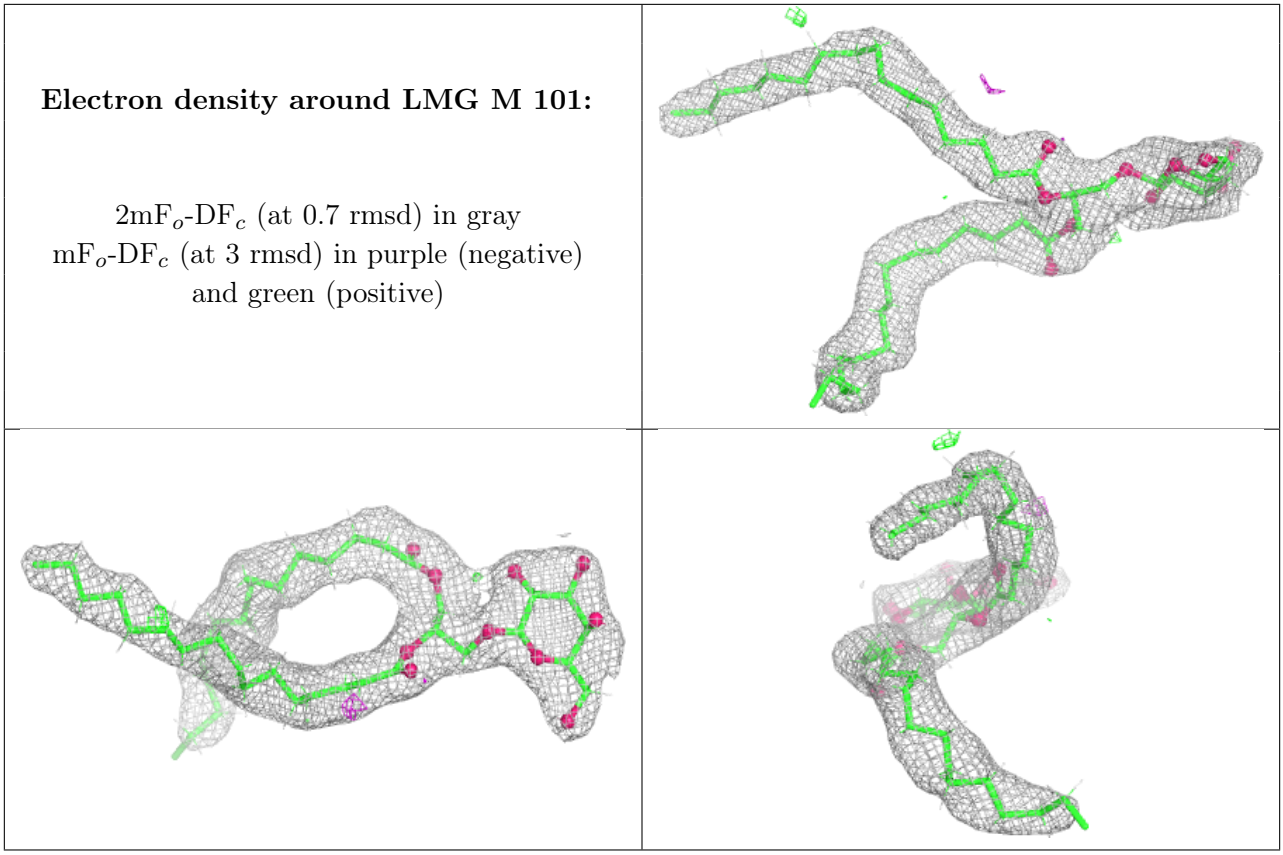






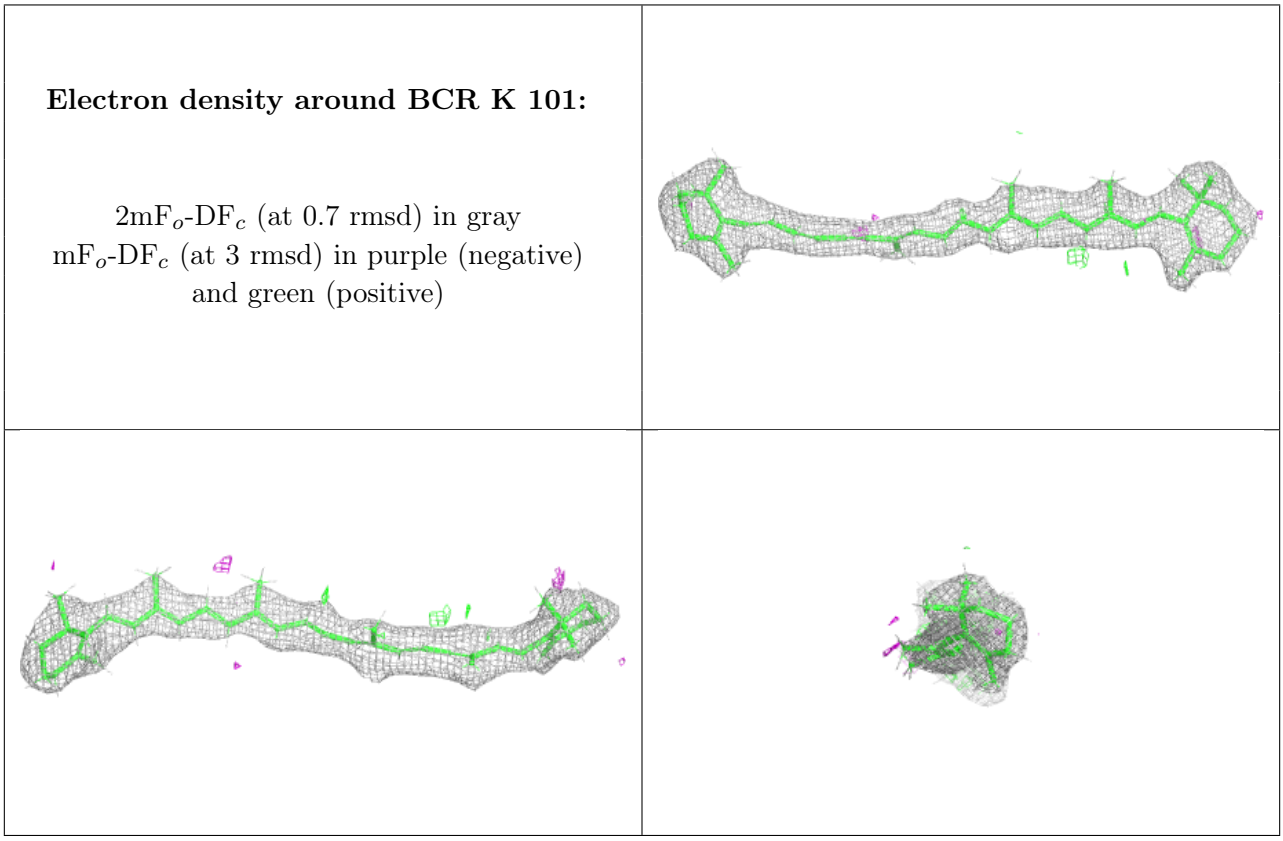
Electron density around LMG M 101:

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



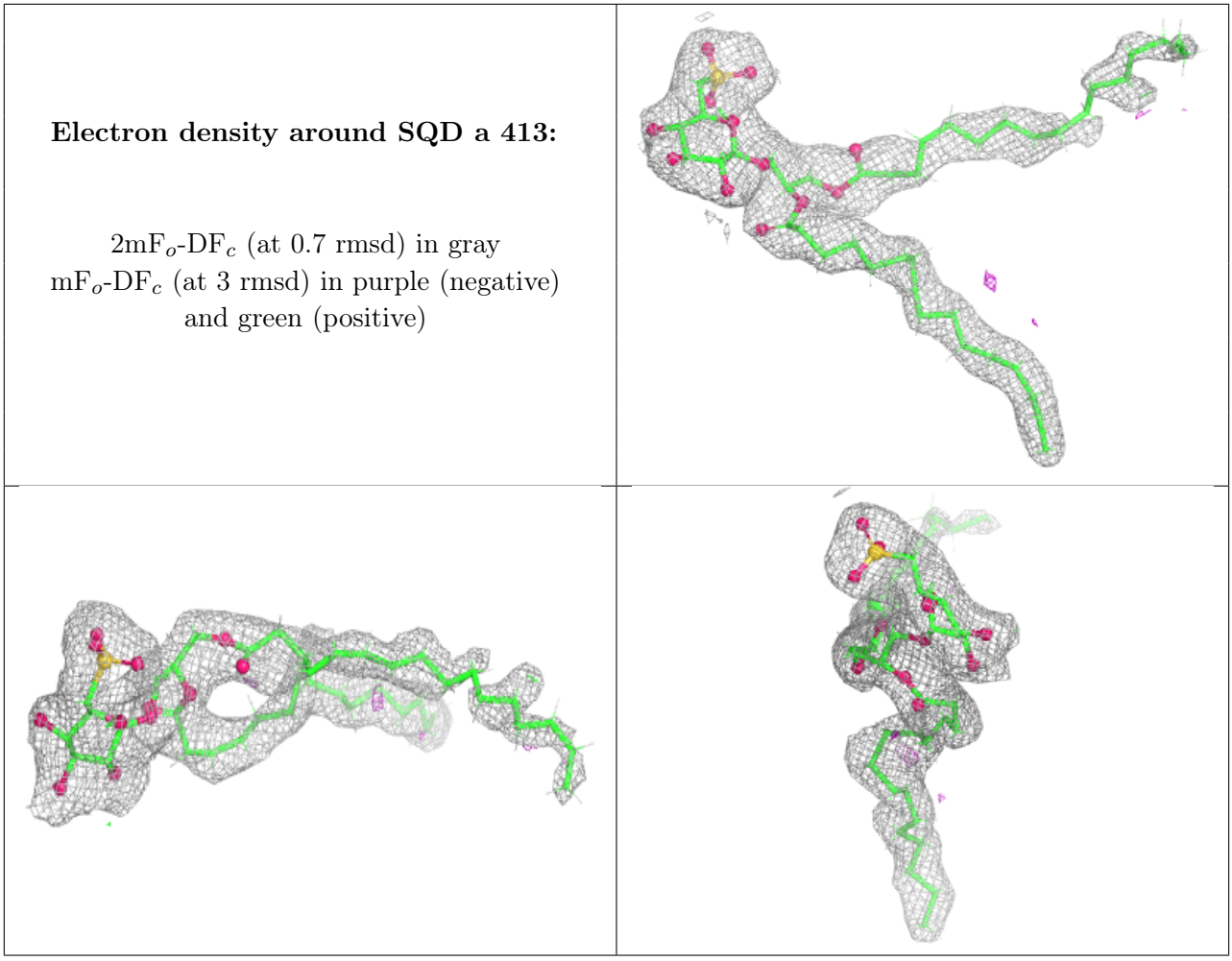
Electron density around BCR K 101:

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



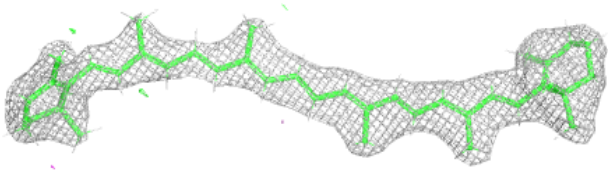
Electron density around SQD a 413:

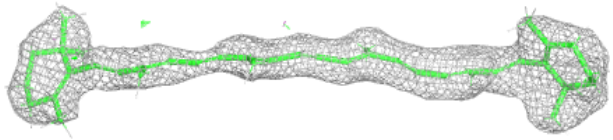
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

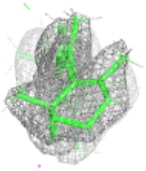


Electron density around BCR k 101:

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

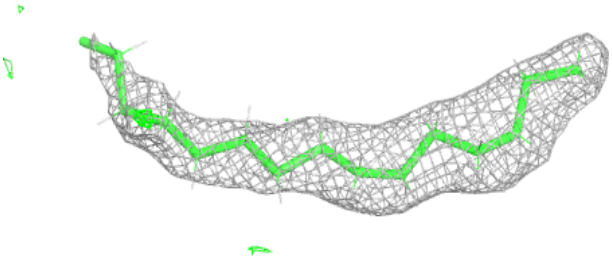


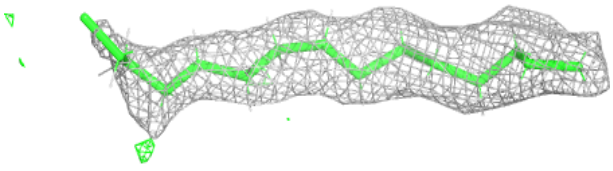


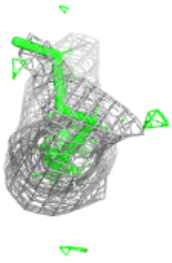


Electron density around STE T 702:

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

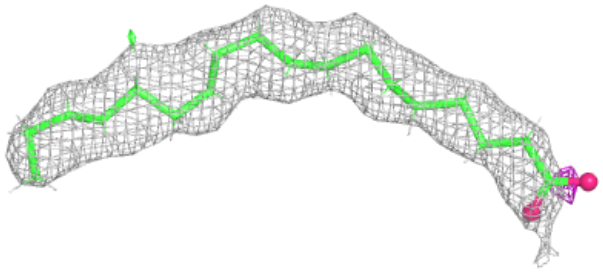


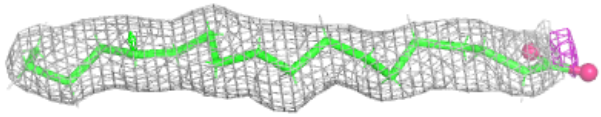




Electron density around STE X 101:

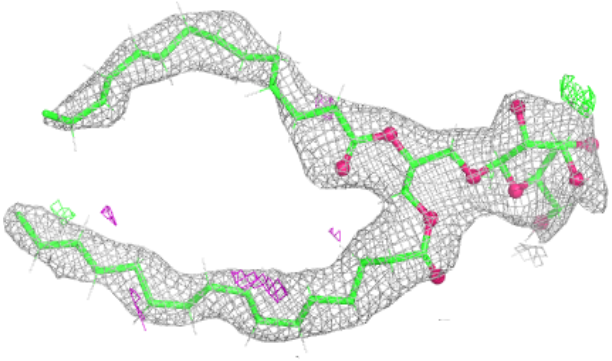
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

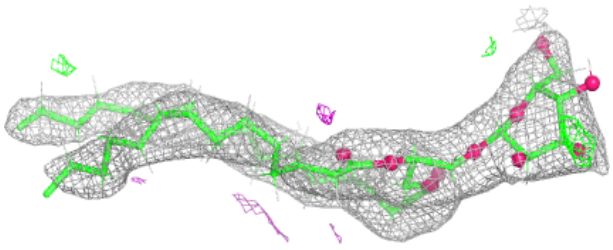


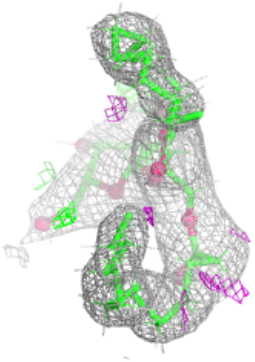


Electron density around LMG c 523:

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

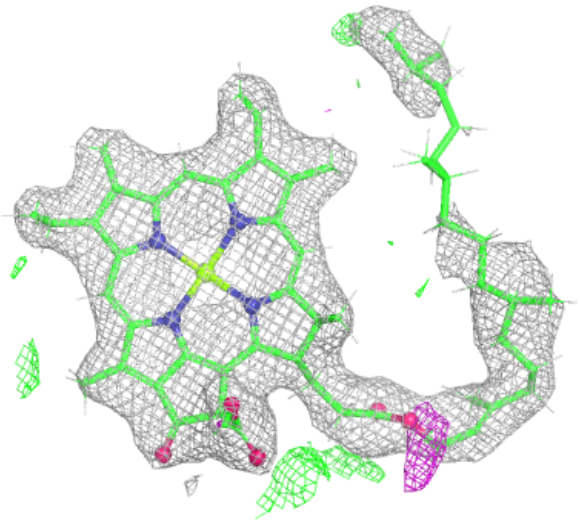


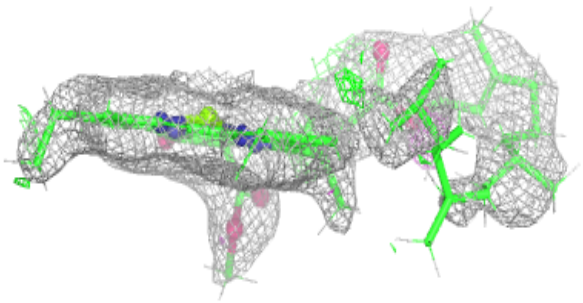


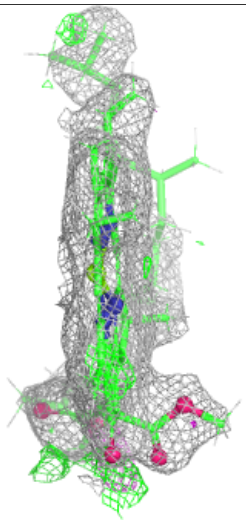


Electron density around CLA c 513:

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

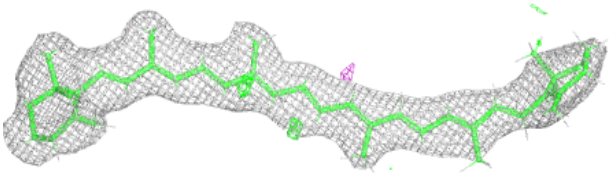


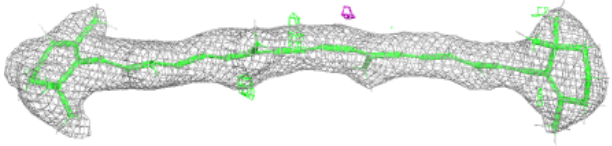


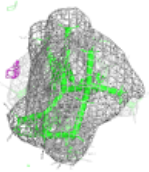


Electron density around BCR Y 101:

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

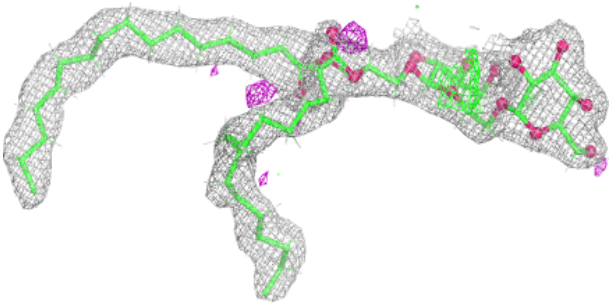


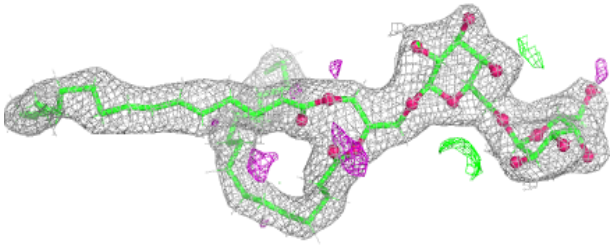




Electron density around DGD h 702:

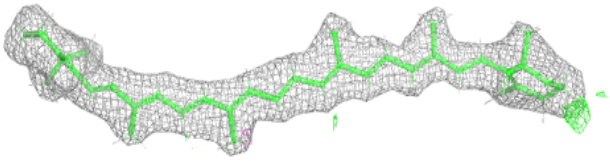
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

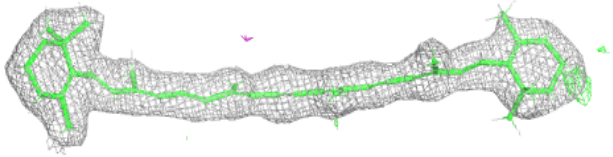


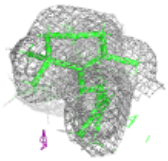


Electron density around BCR H 101:

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

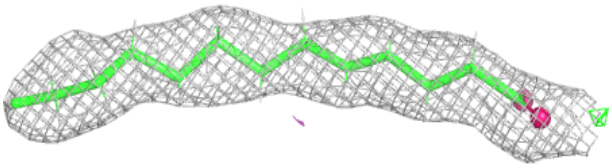


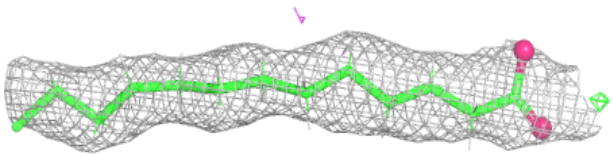


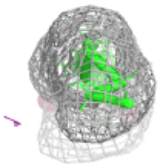


Electron density around STE M 102:

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

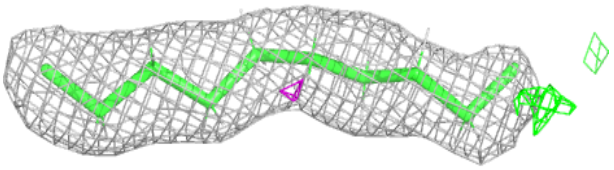


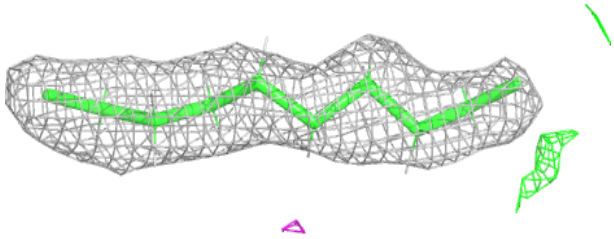


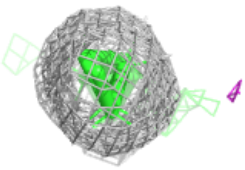


Electron density around STE M 103:

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

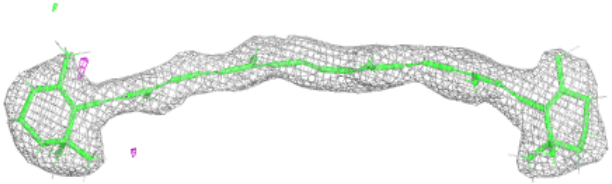


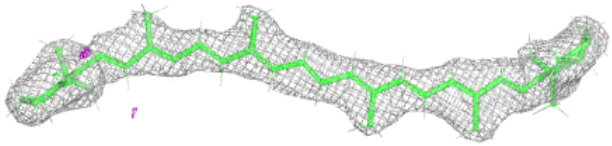


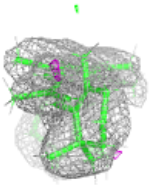


Electron density around BCR k 102:

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

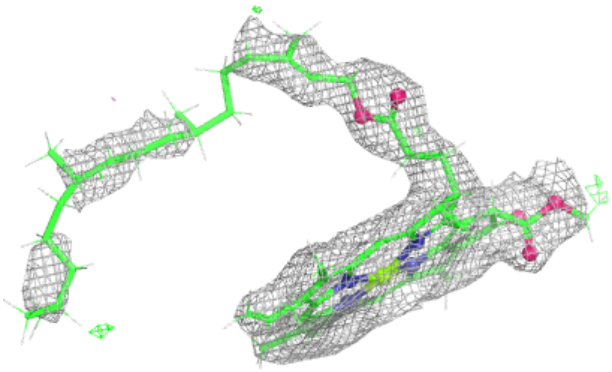


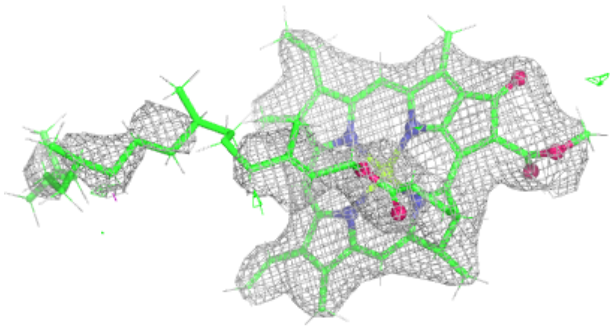


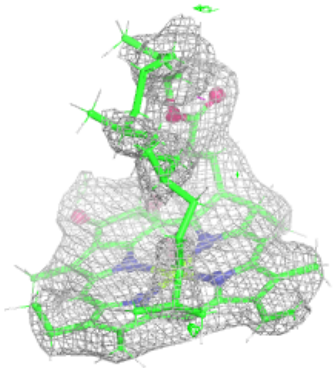


Electron density around CLA c 514:

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

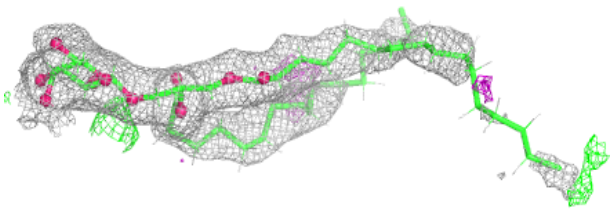






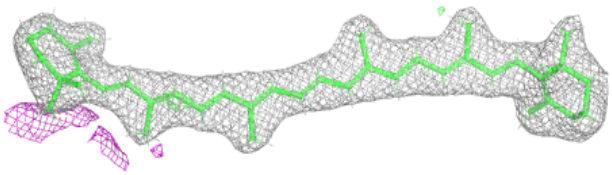
Electron density around LMG D 408:

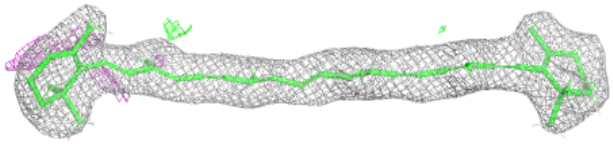
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

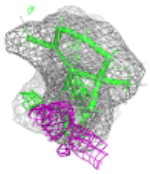


Electron density around BCR B 718:

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

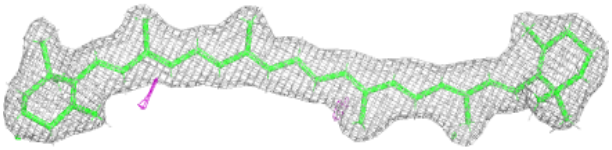


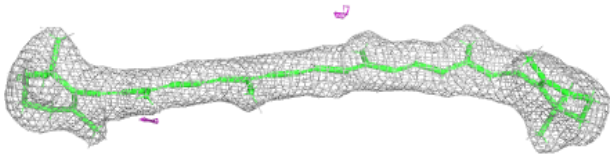


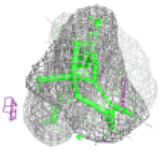


Electron density around BCR B 719:

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

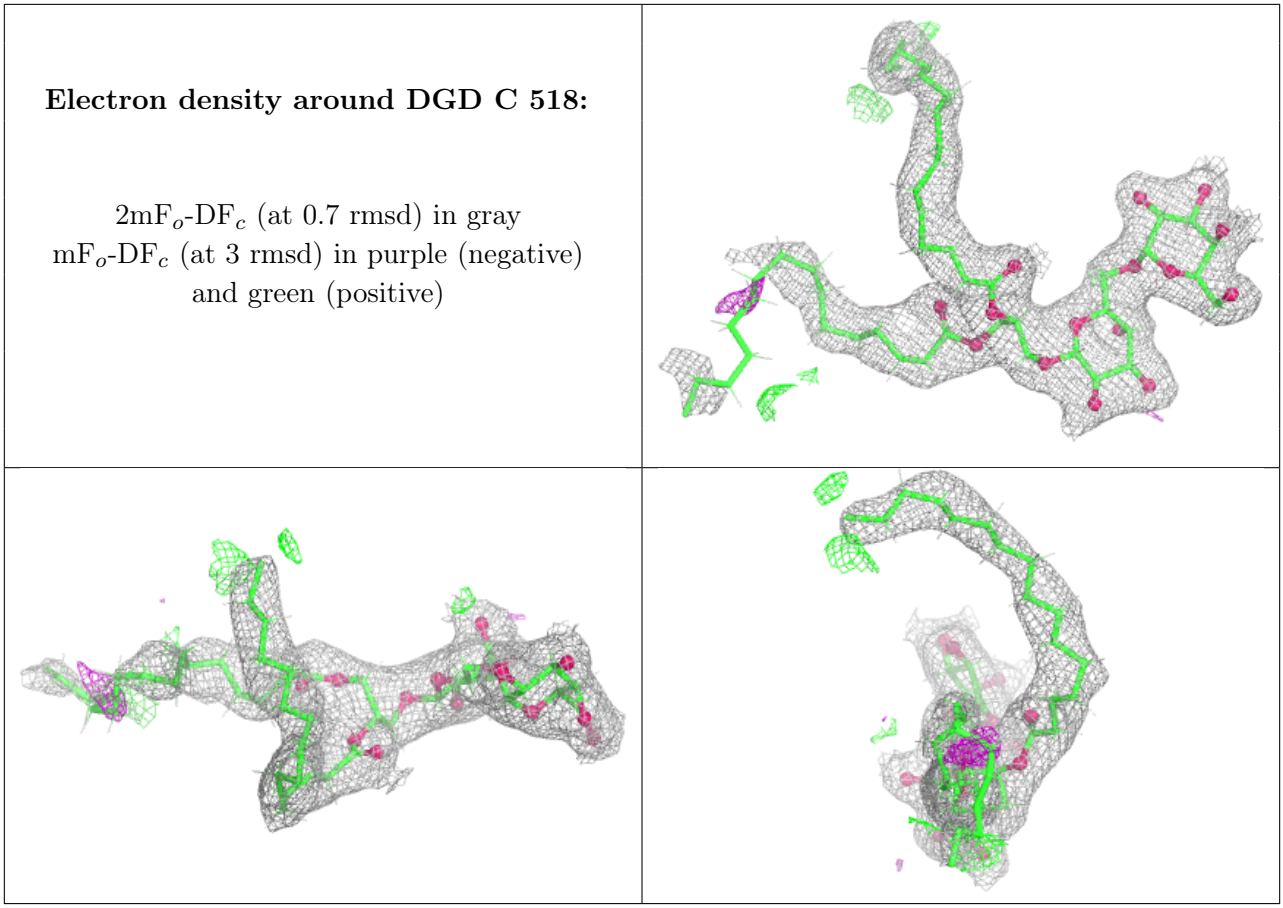






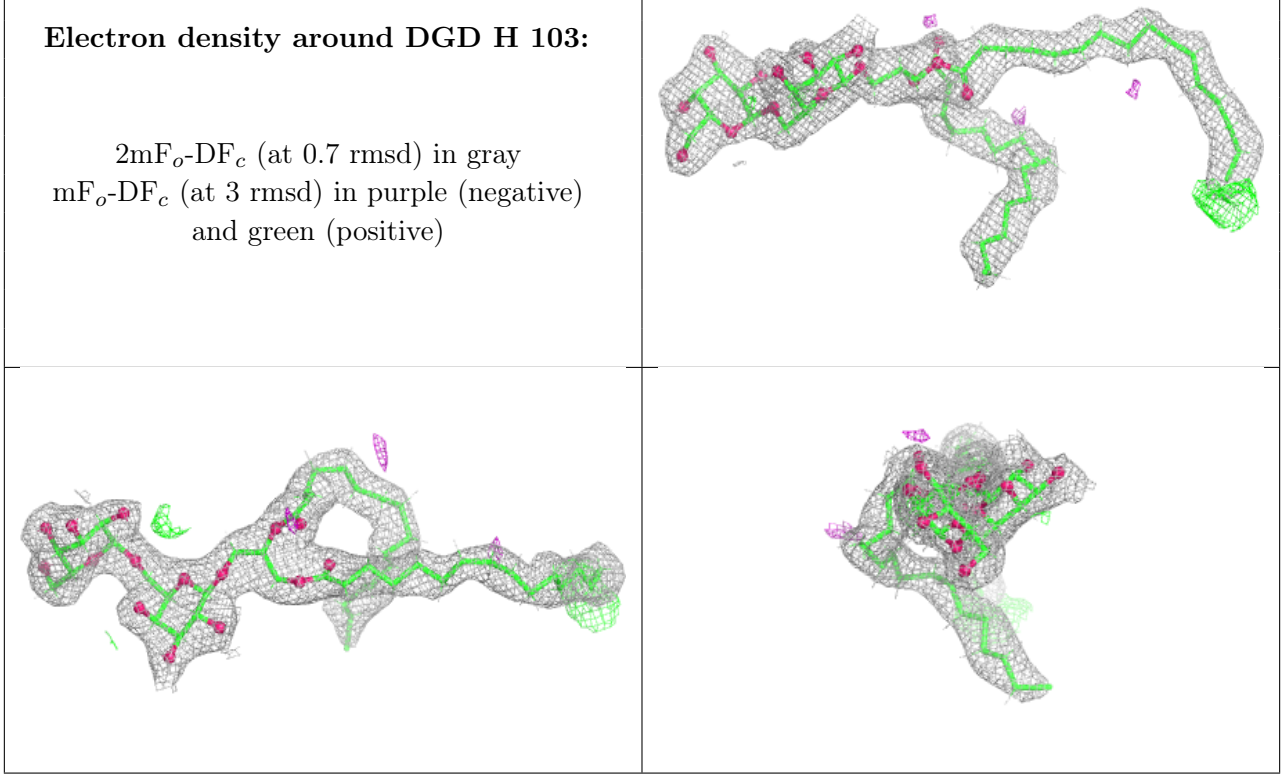
Electron density around DGD C 518:

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



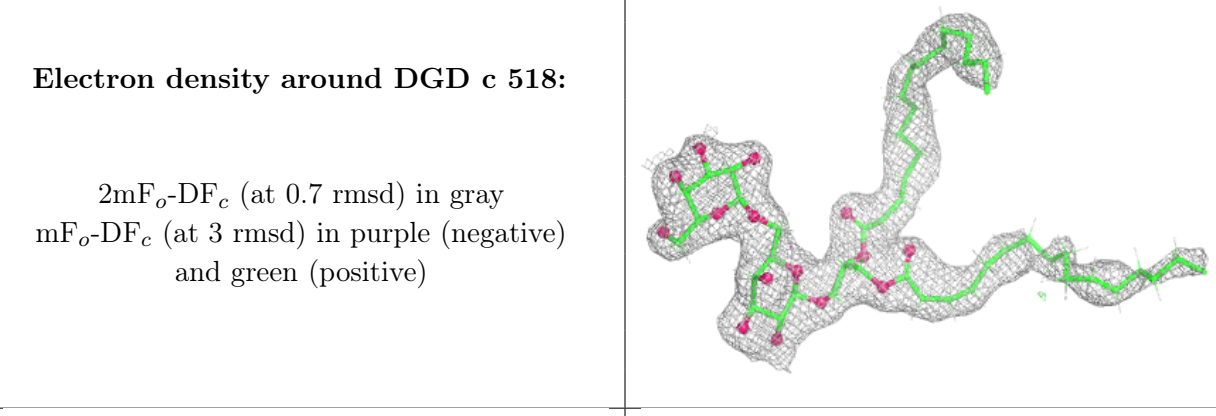
Electron density around DGD H 103:

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



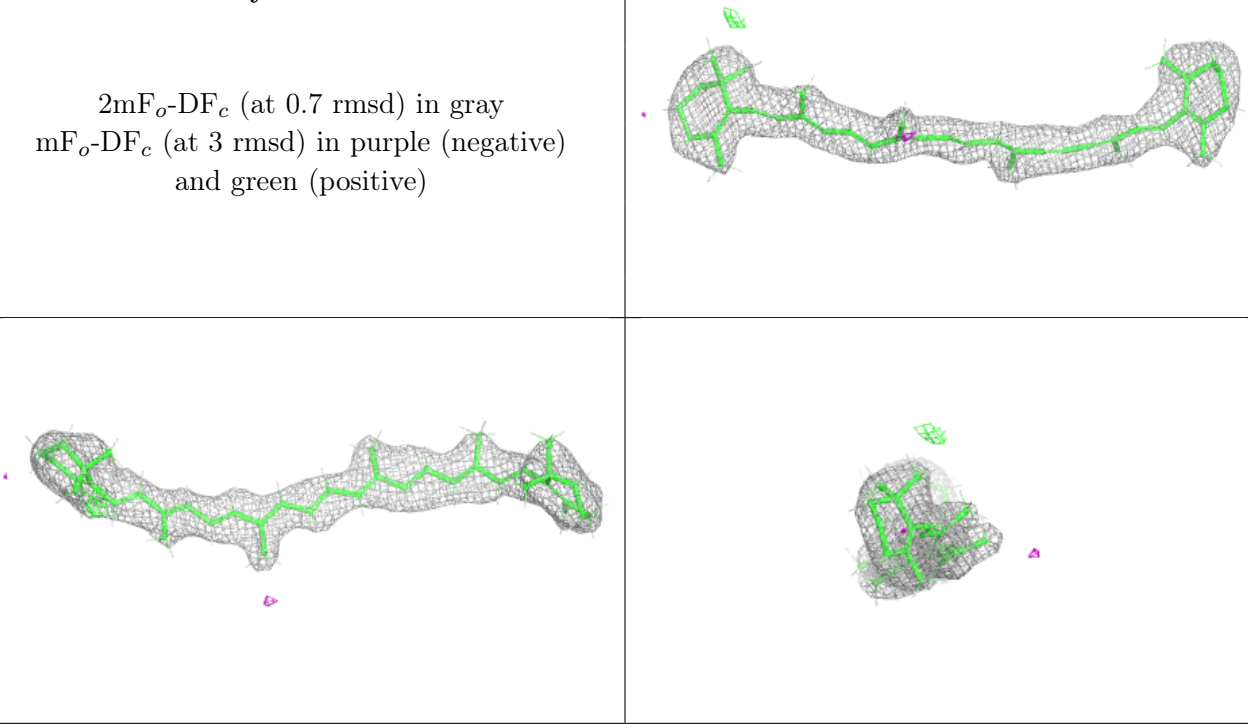
Electron density around DGD c 518:

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



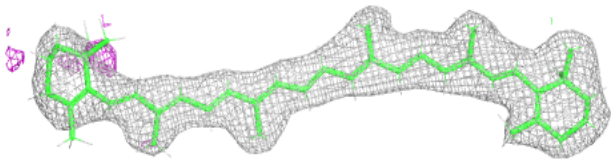
Electron density around BCR C 501:

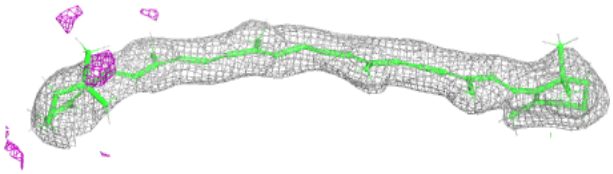
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

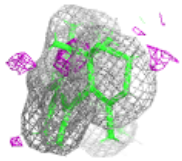


Electron density around BCR D 404:

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

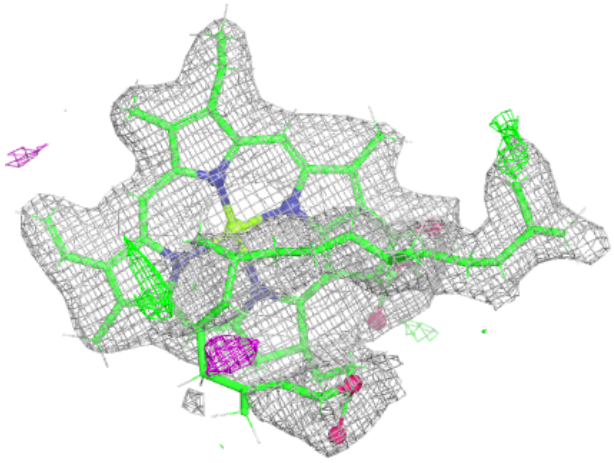


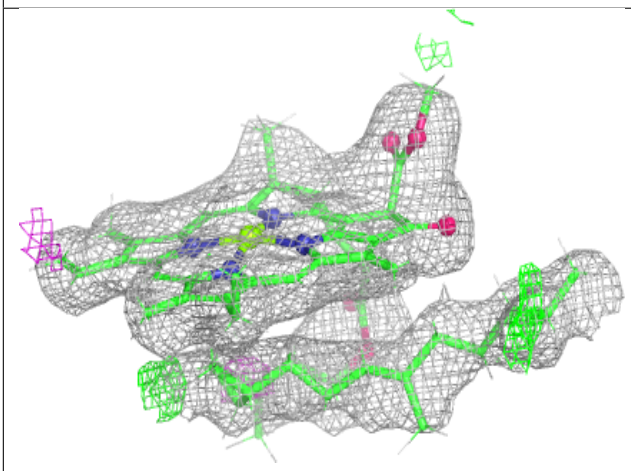


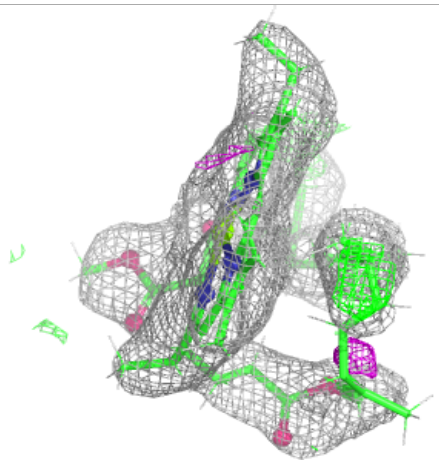


Electron density around CLA H 102:

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

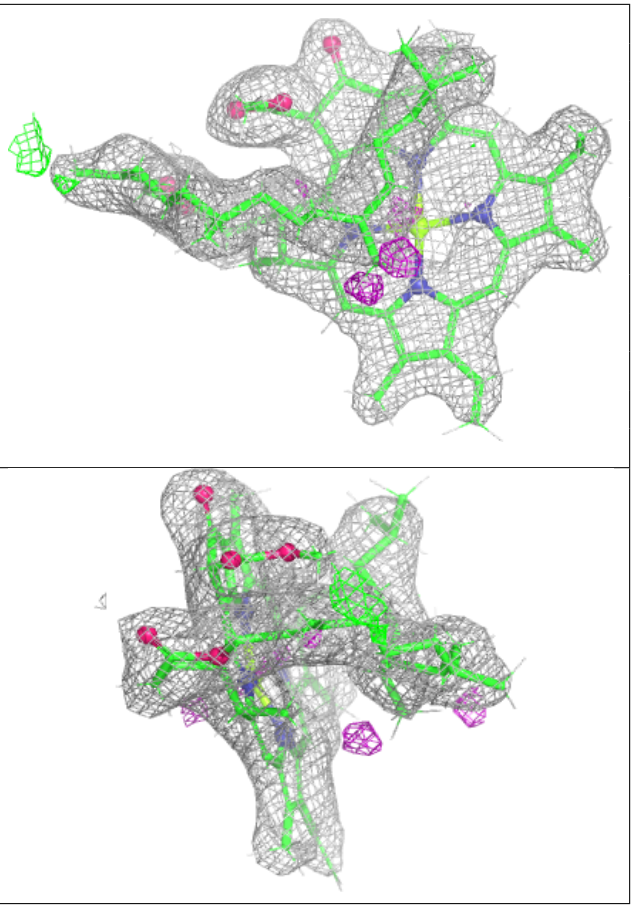






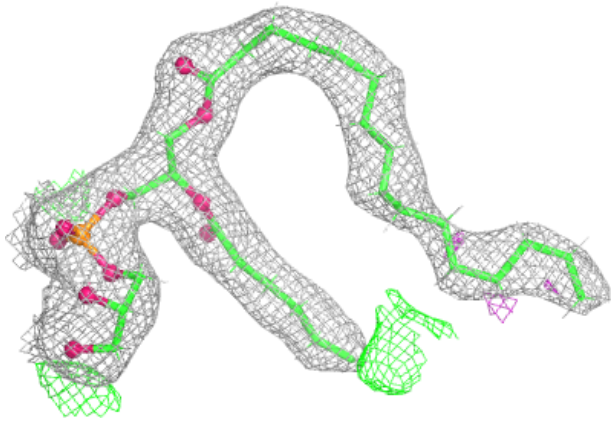
Electron density around CLA C 511:

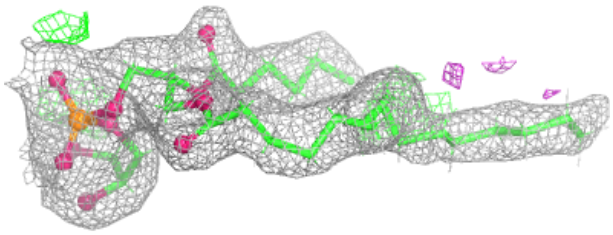
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

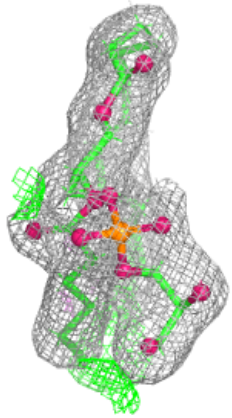


Electron density around LHG d 407:

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

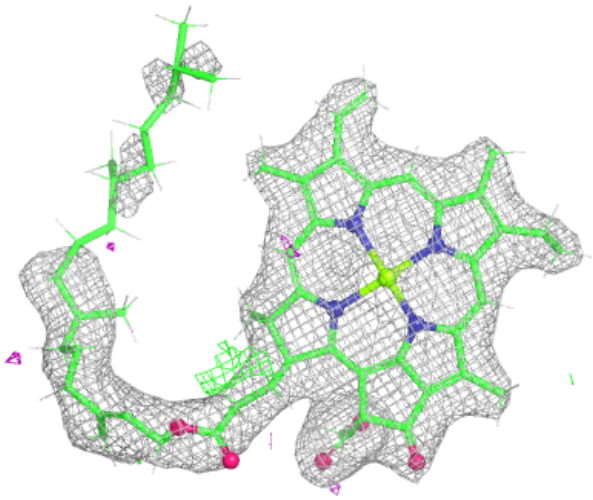


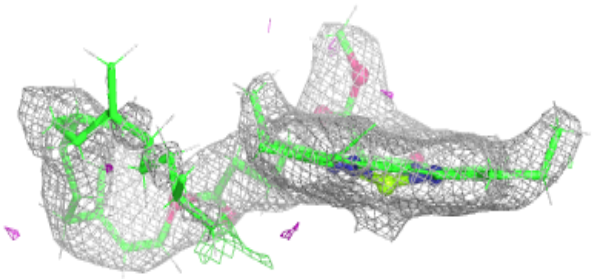


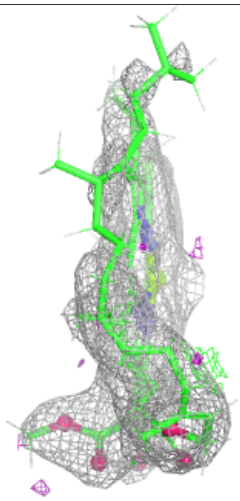


Electron density around CLA C 513:

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

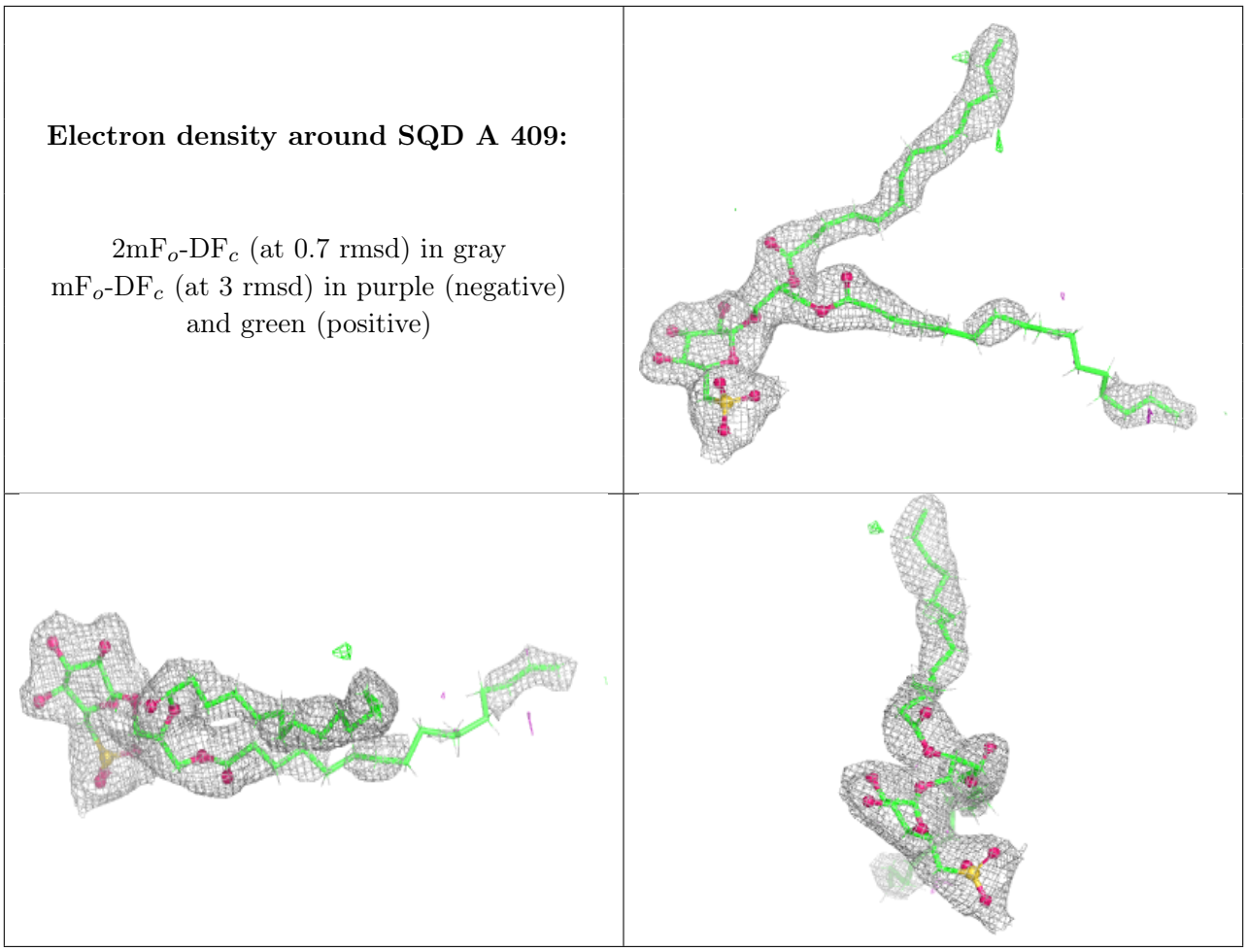






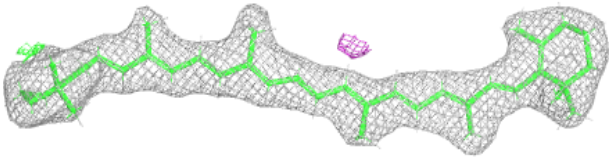
Electron density around SQD A 409:

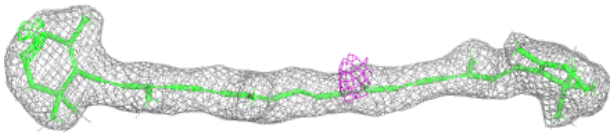
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

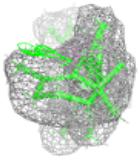


Electron density around BCR b 717:

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

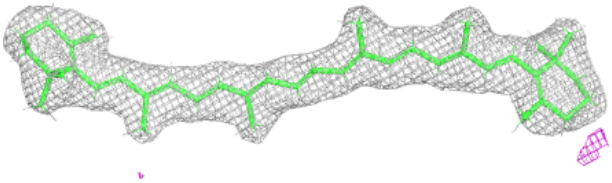


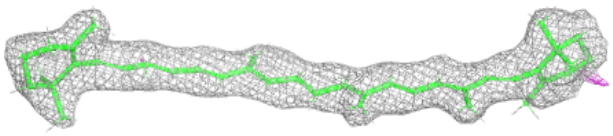


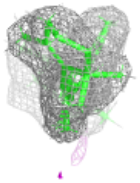


Electron density around BCR b 719:

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

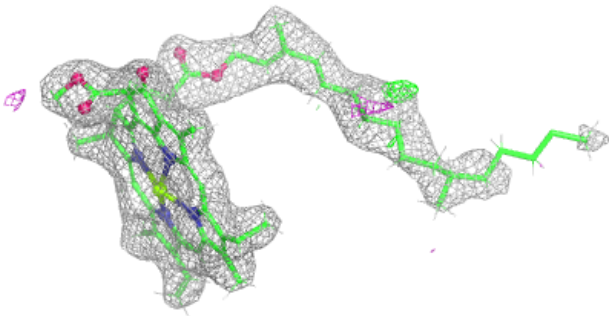


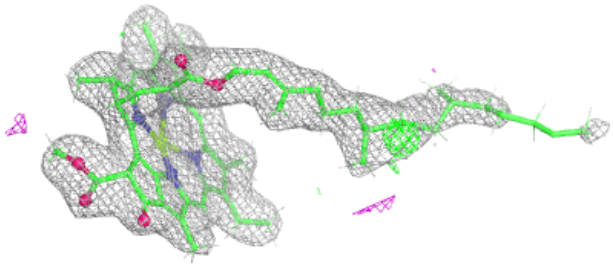


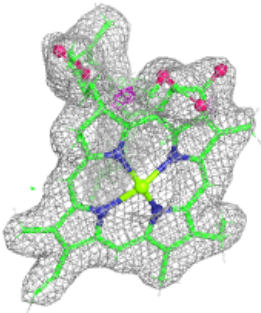


Electron density around CLA c 509:

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

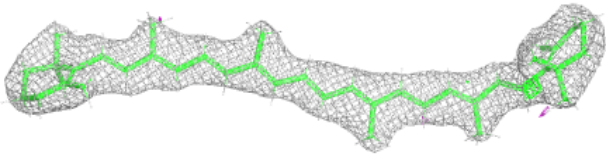


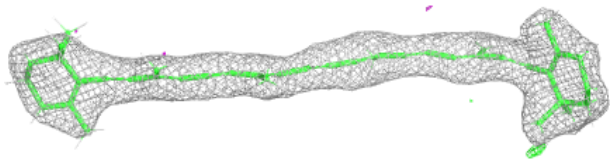


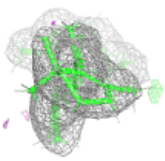


Electron density around BCR c 516:

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

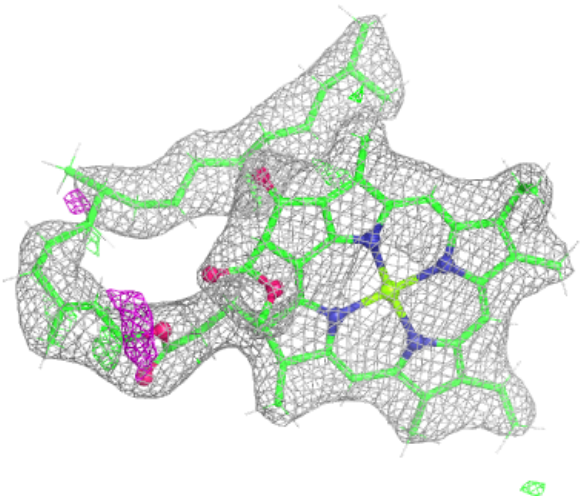


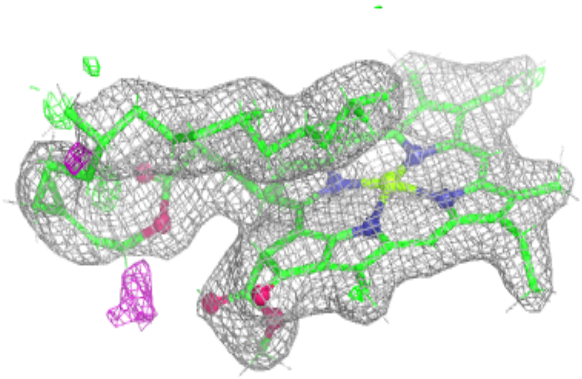


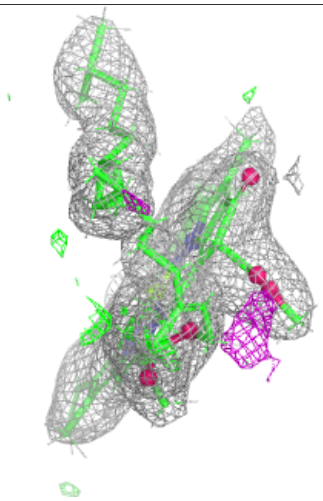


Electron density around CLA c 510:

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

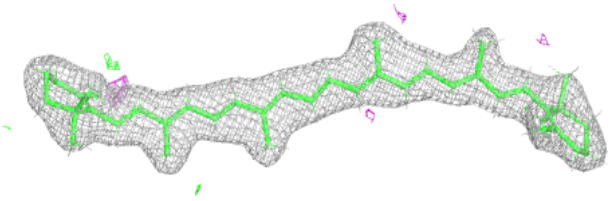


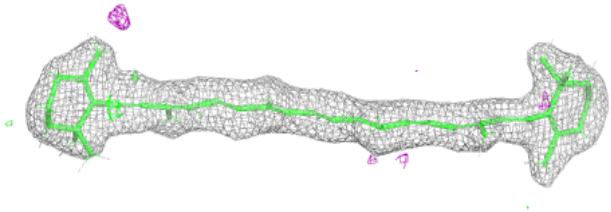


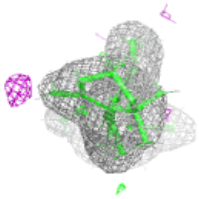


Electron density around BCR C 515:

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

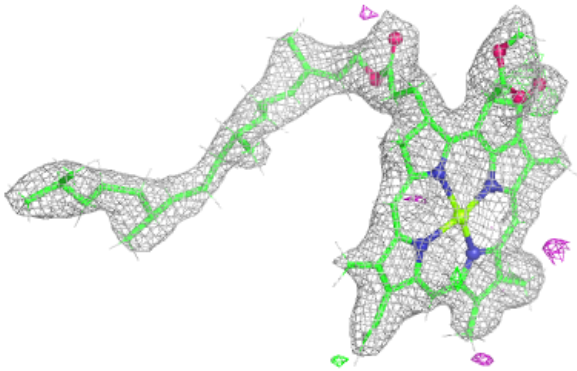


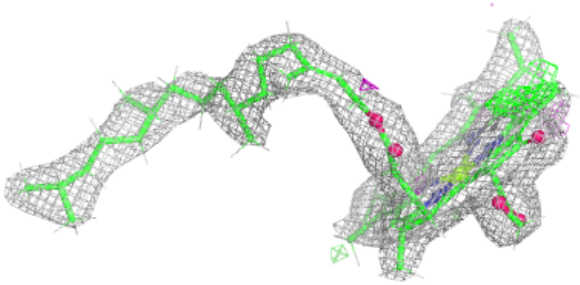


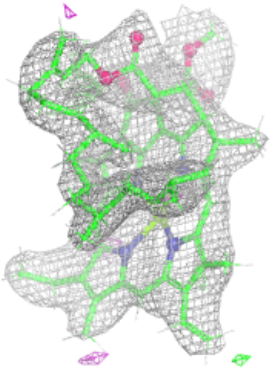


Electron density around CLA c 512:

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

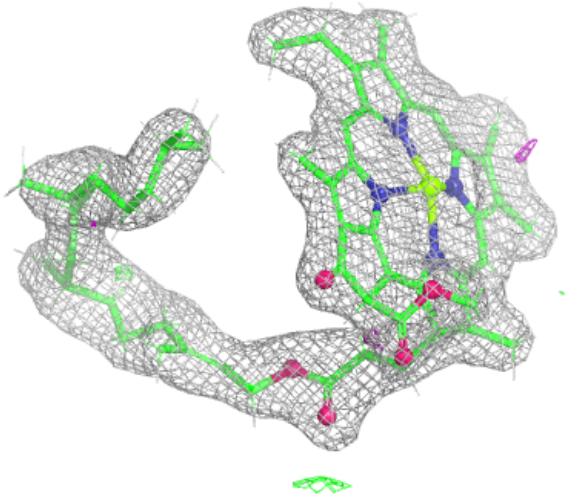


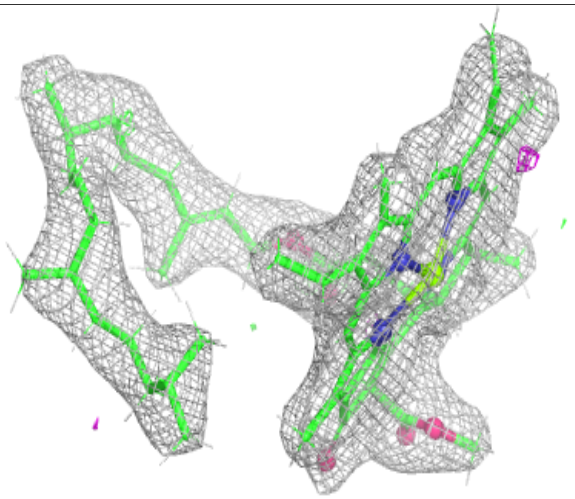


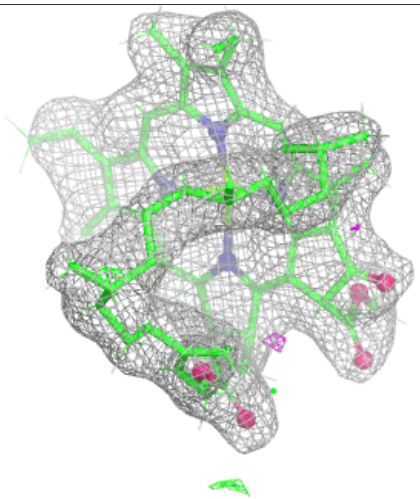


Electron density around CLA C 504:

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

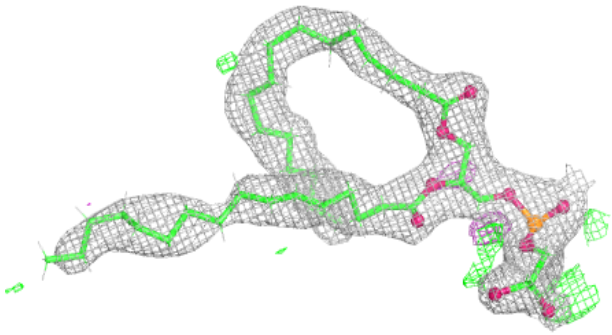


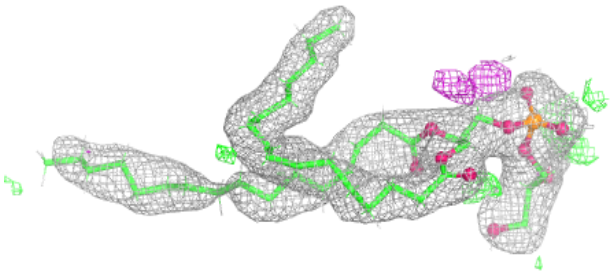


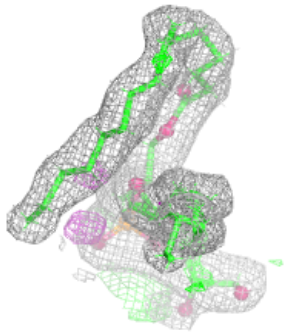


Electron density around LHG B 722:

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

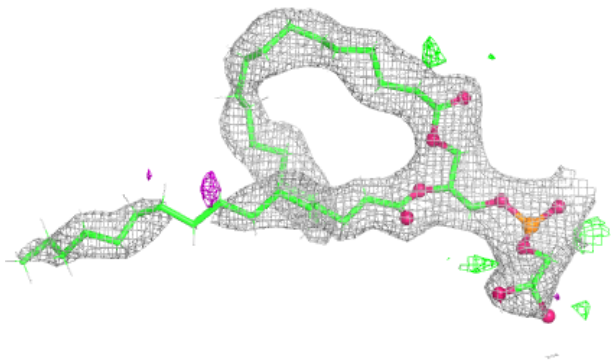


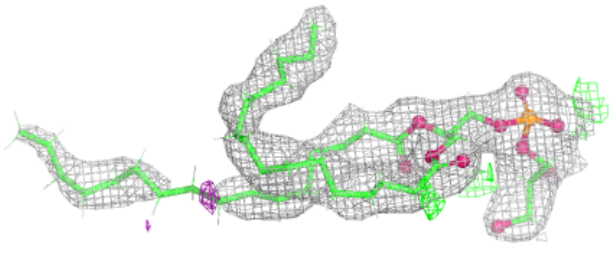


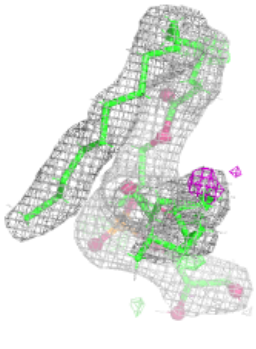


Electron density around LHG a 412:

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

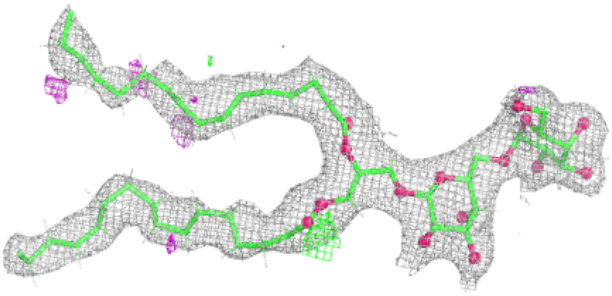


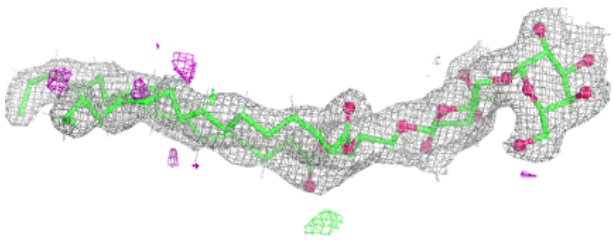




Electron density around DGD C 519:

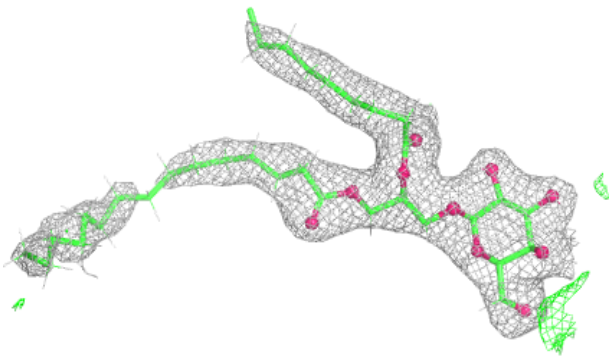
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

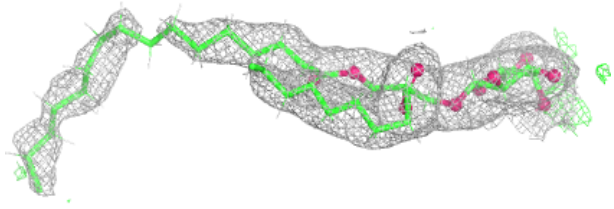


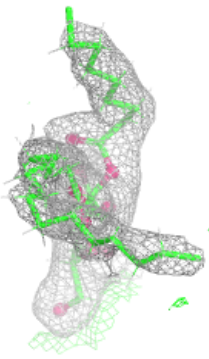


Electron density around LMG d 408:

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

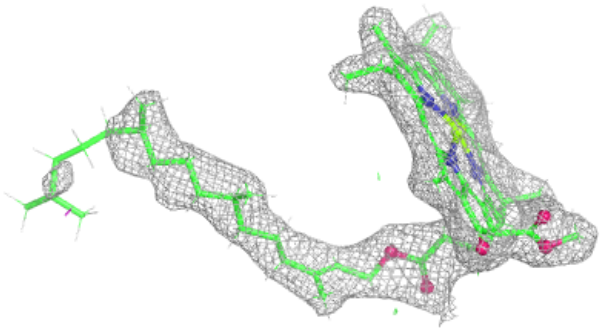


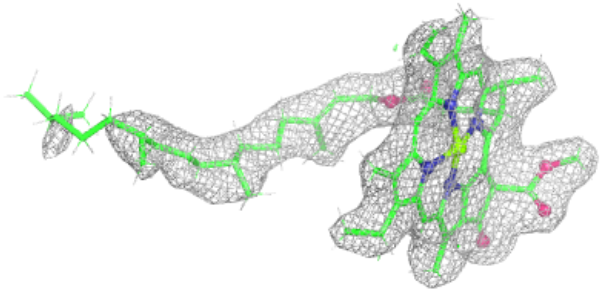


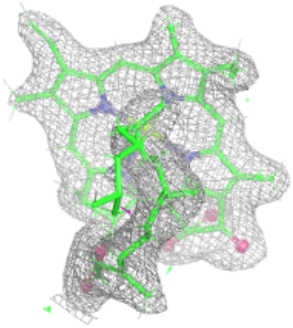


Electron density around CLA C 509:

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

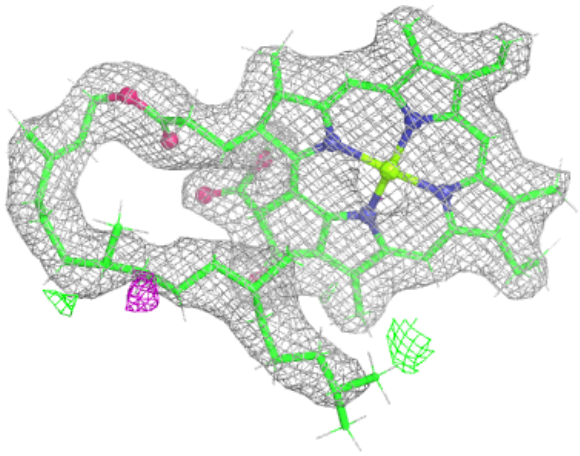


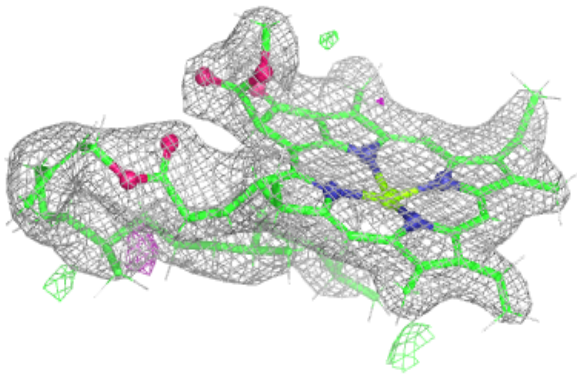


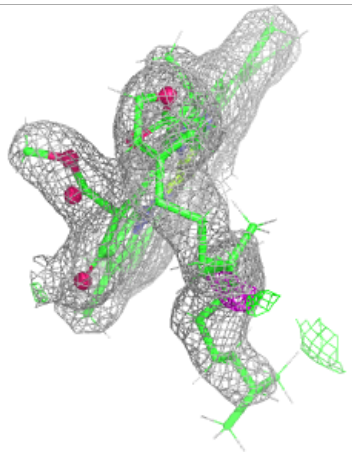


Electron density around CLA C 510:

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

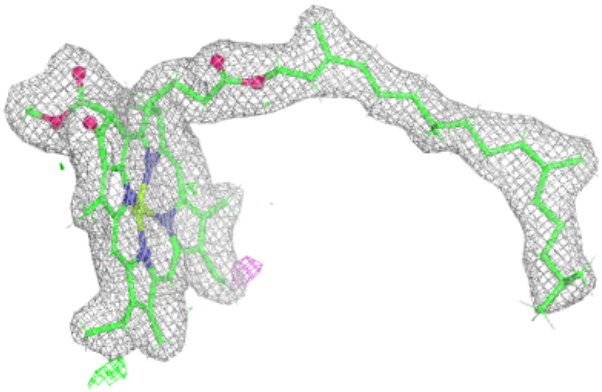


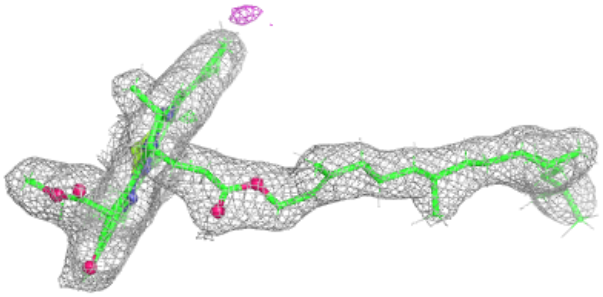


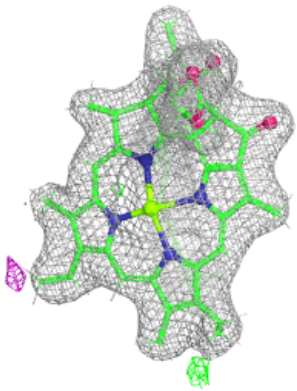


Electron density around CLA B 709:

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

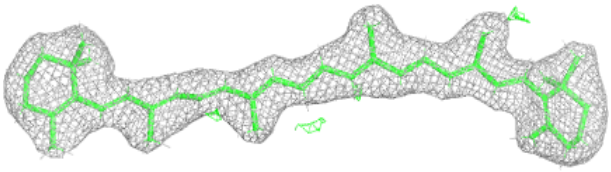


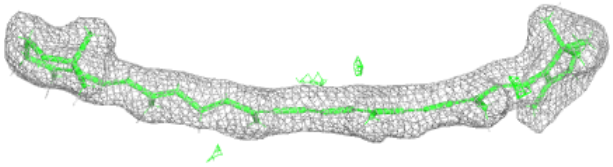


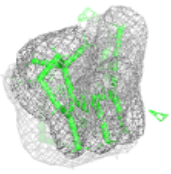


Electron density around BCR t 701:

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

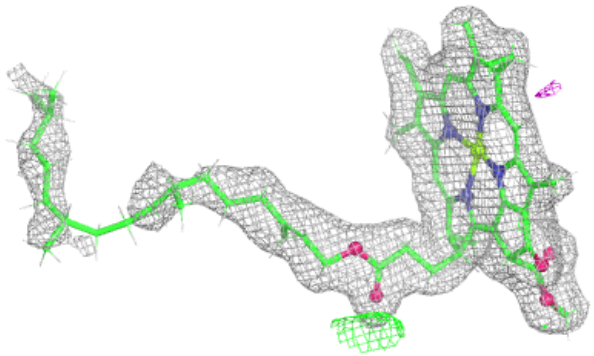


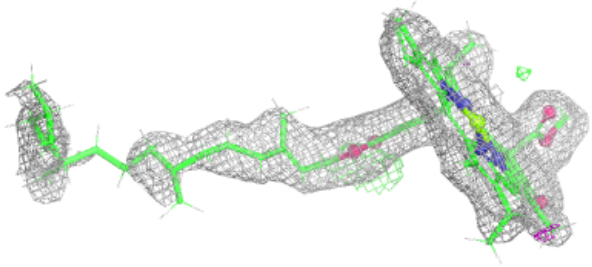


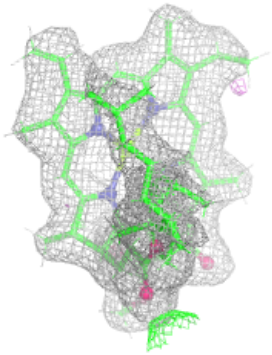


Electron density around CLA d 402:

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

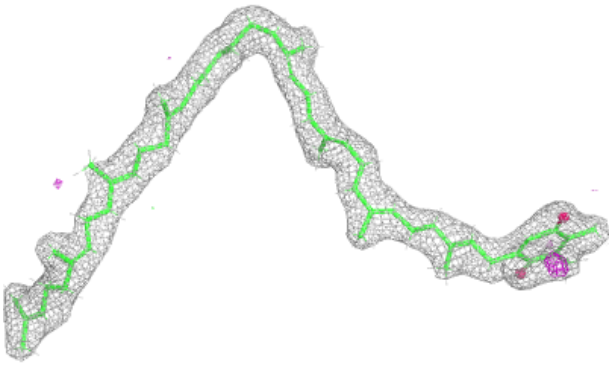


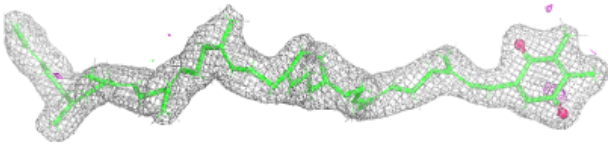


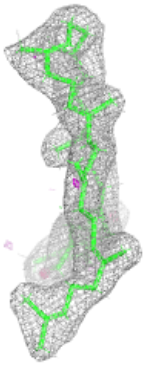


Electron density around PL9 D 405:

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

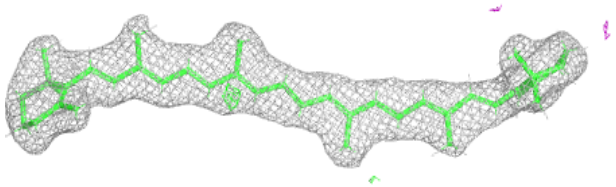


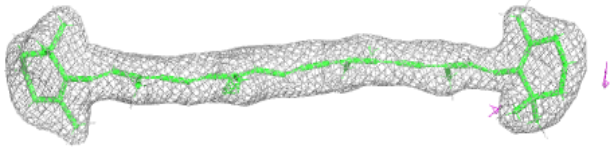


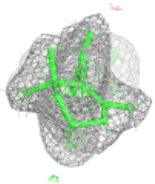


Electron density around BCR A 405:

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

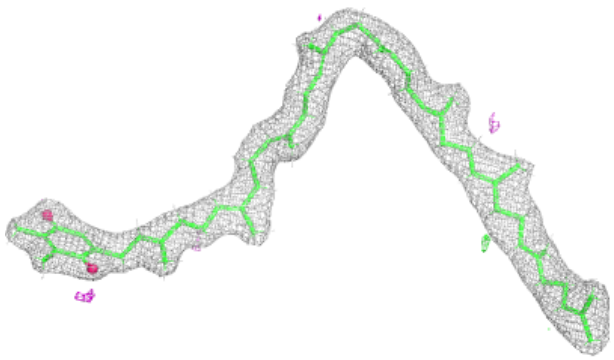


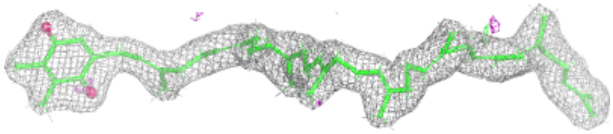


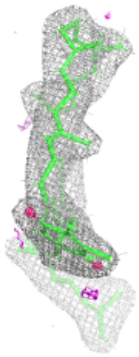


Electron density around PL9 d 404:

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

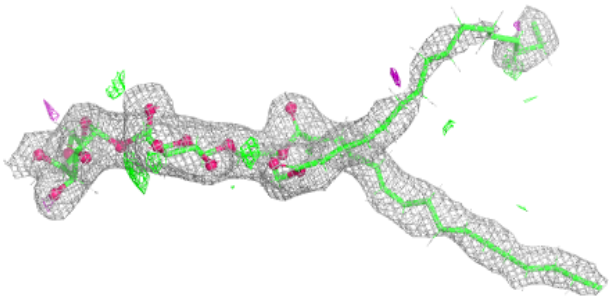


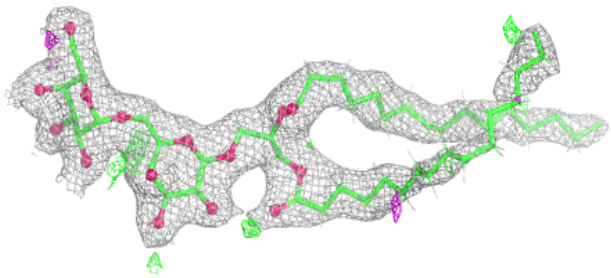


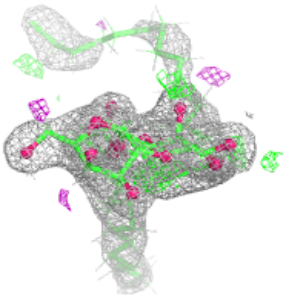


Electron density around DGD C 517:

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

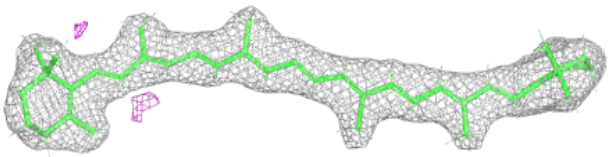


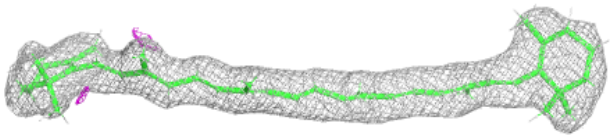


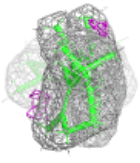


Electron density around BCR B 717:

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

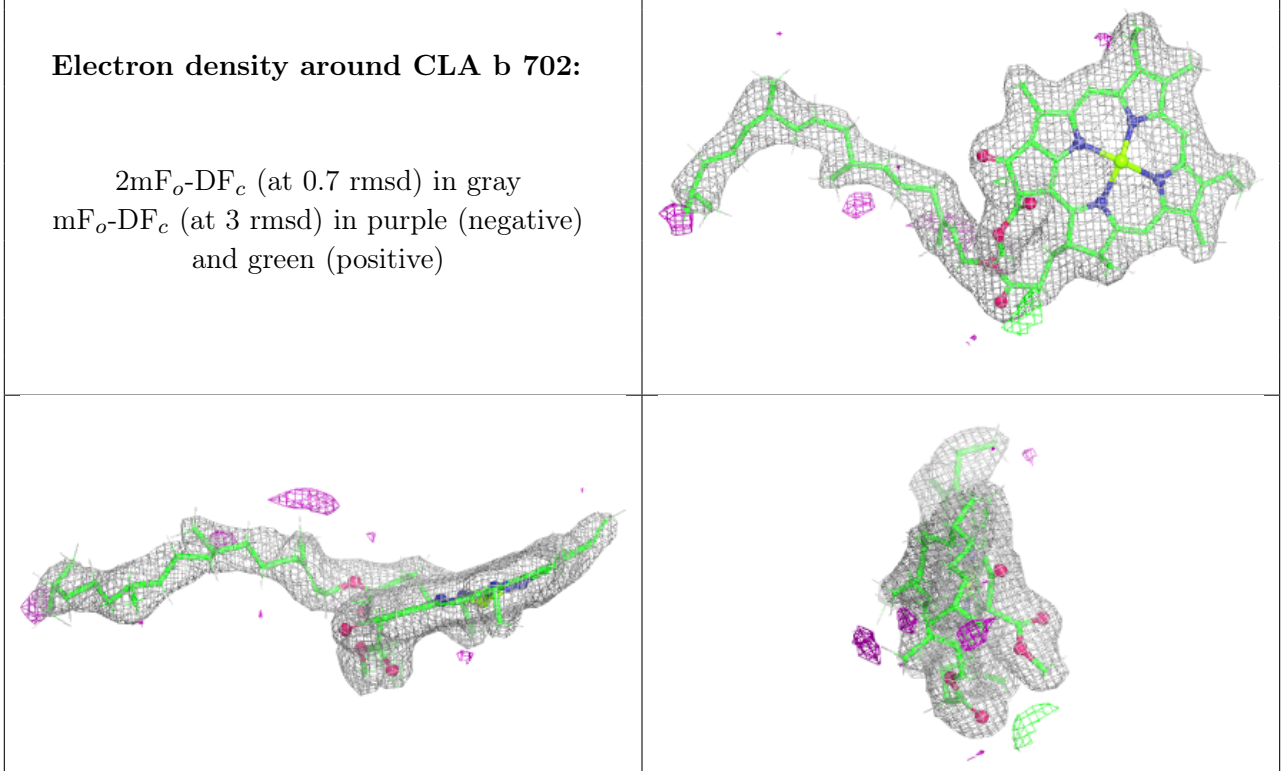






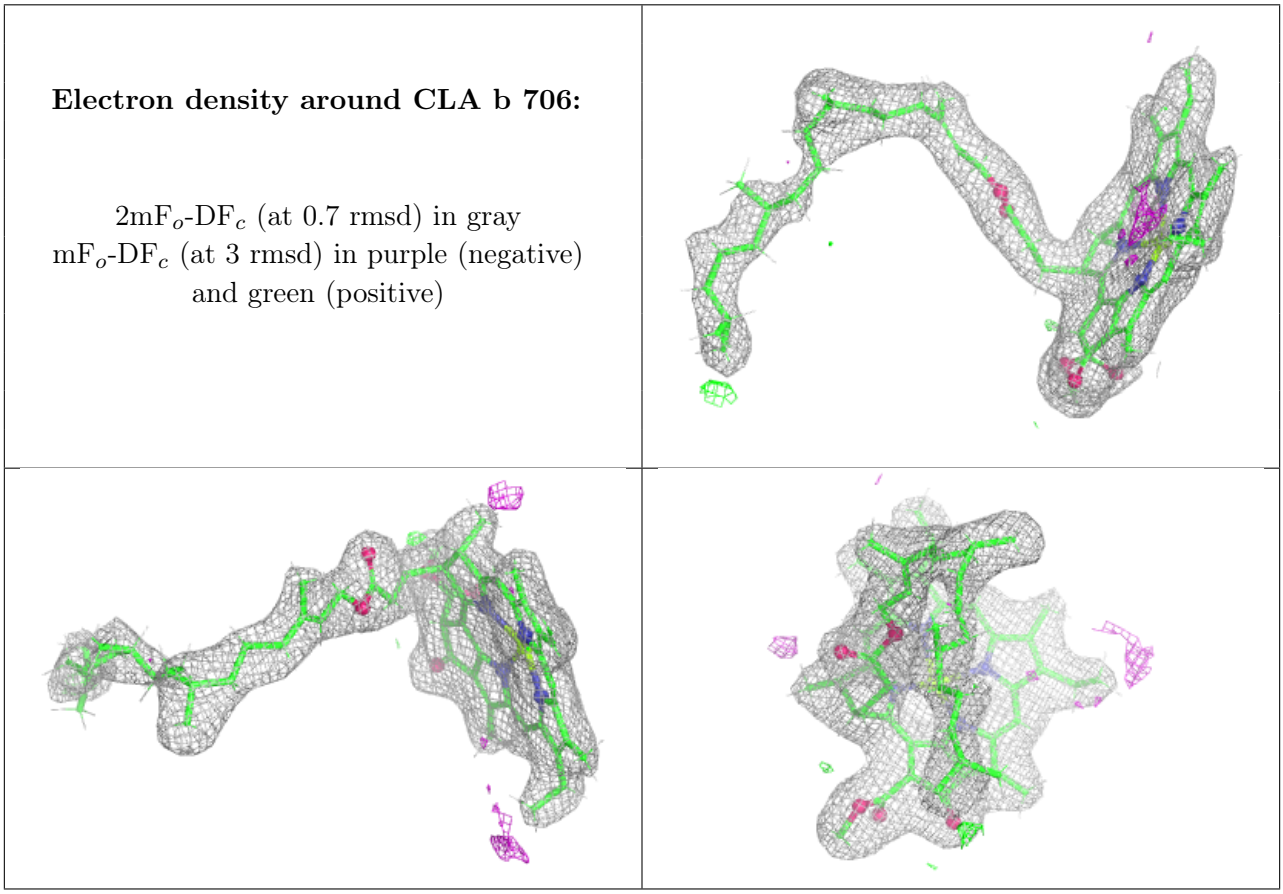
Electron density around CLA b 702:

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



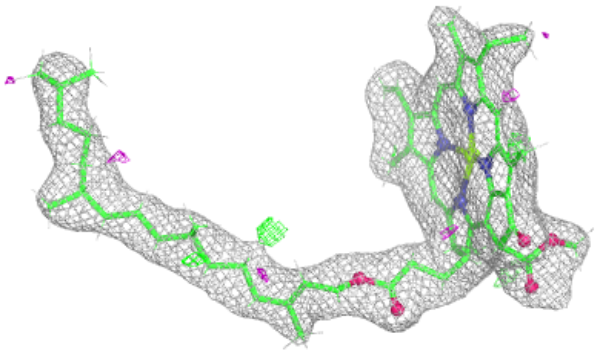
Electron density around CLA b 706:

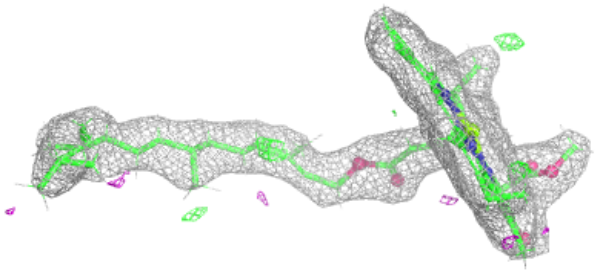
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

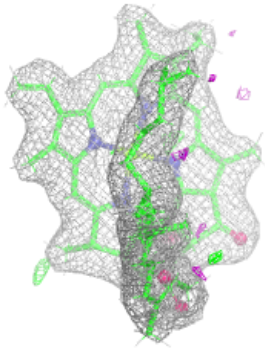


Electron density around CLA b 709:

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

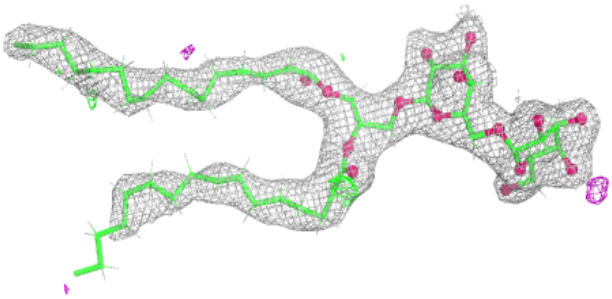


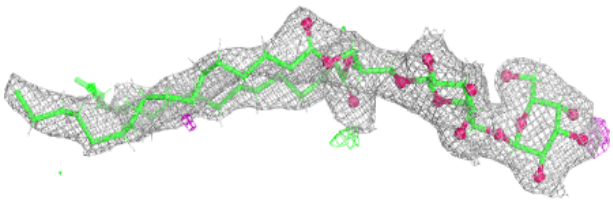


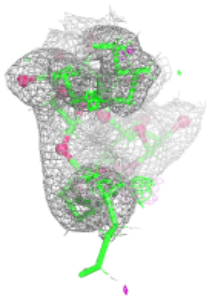


Electron density around DGD c 519:

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

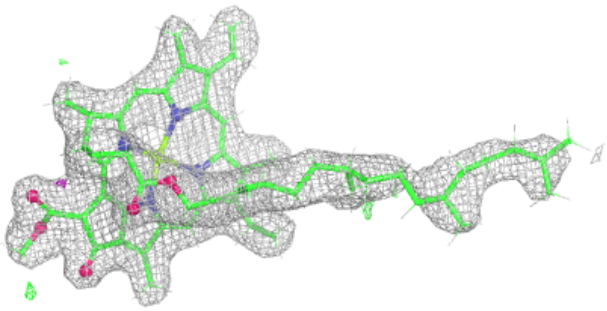


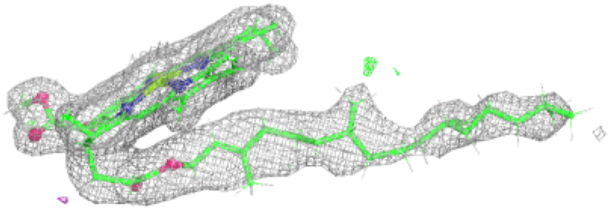


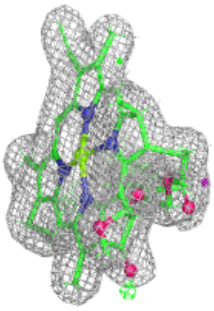


Electron density around CLA b 714:

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

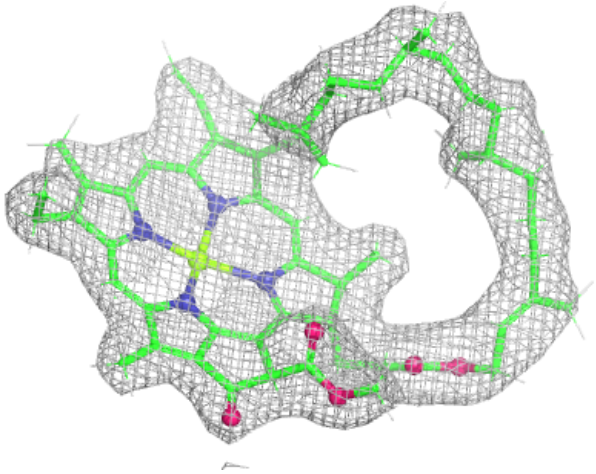


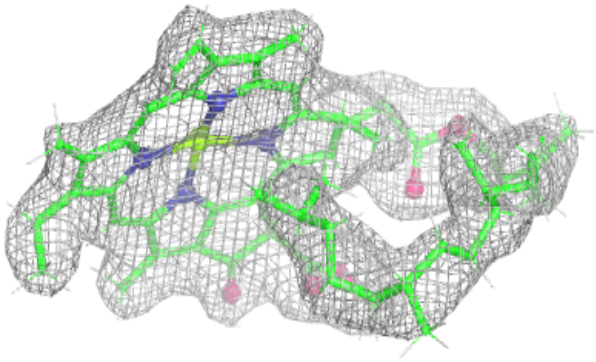


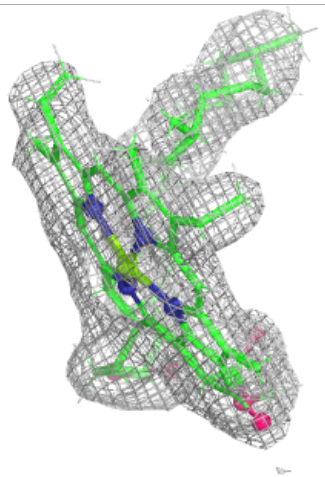


Electron density around CLA b 715:

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

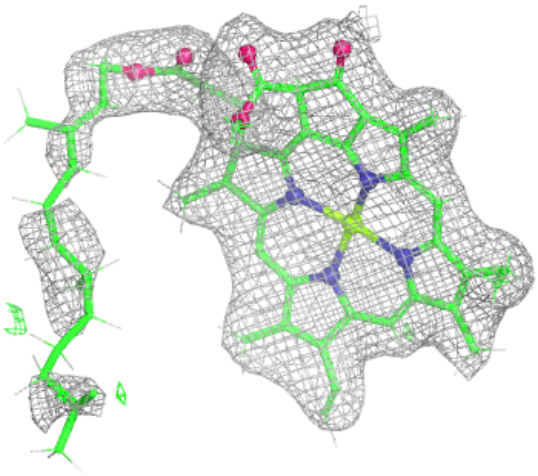


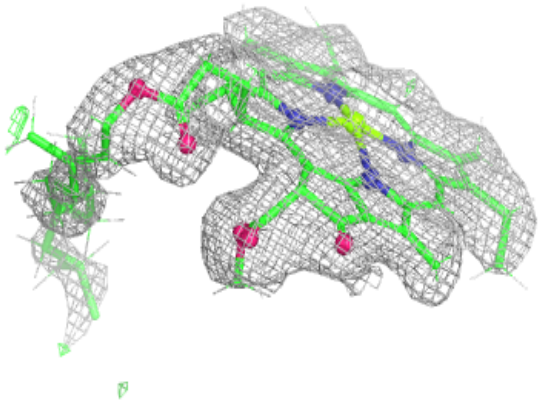


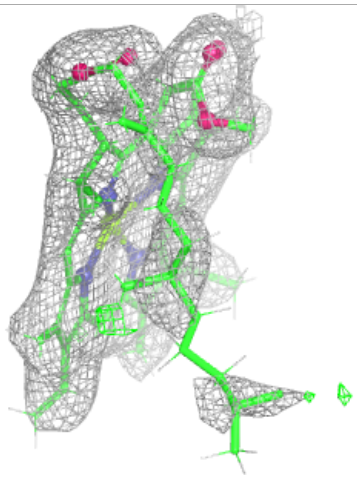


Electron density around CLA b 716:

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

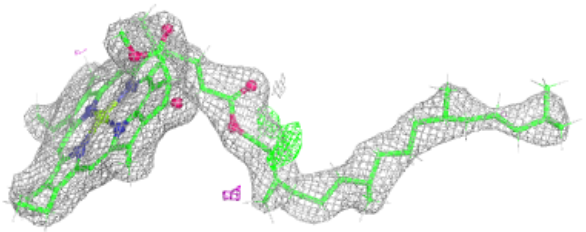


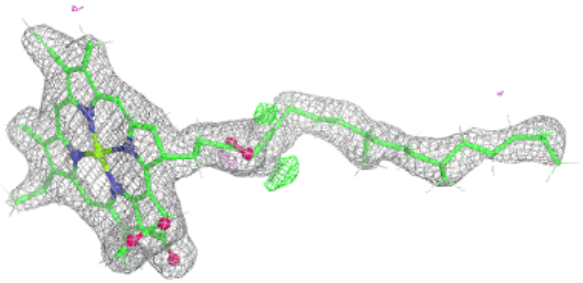


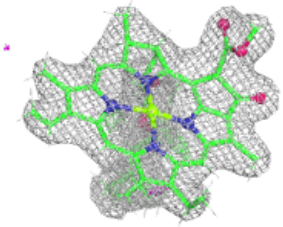


Electron density around CLA c 503:

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

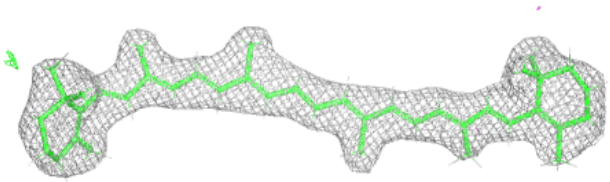


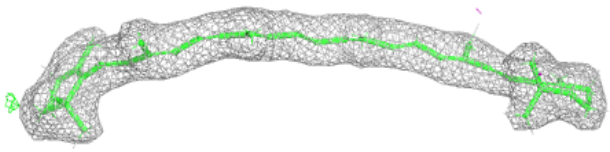


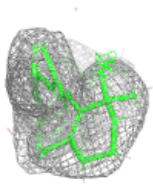


Electron density around BCR T 701:

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

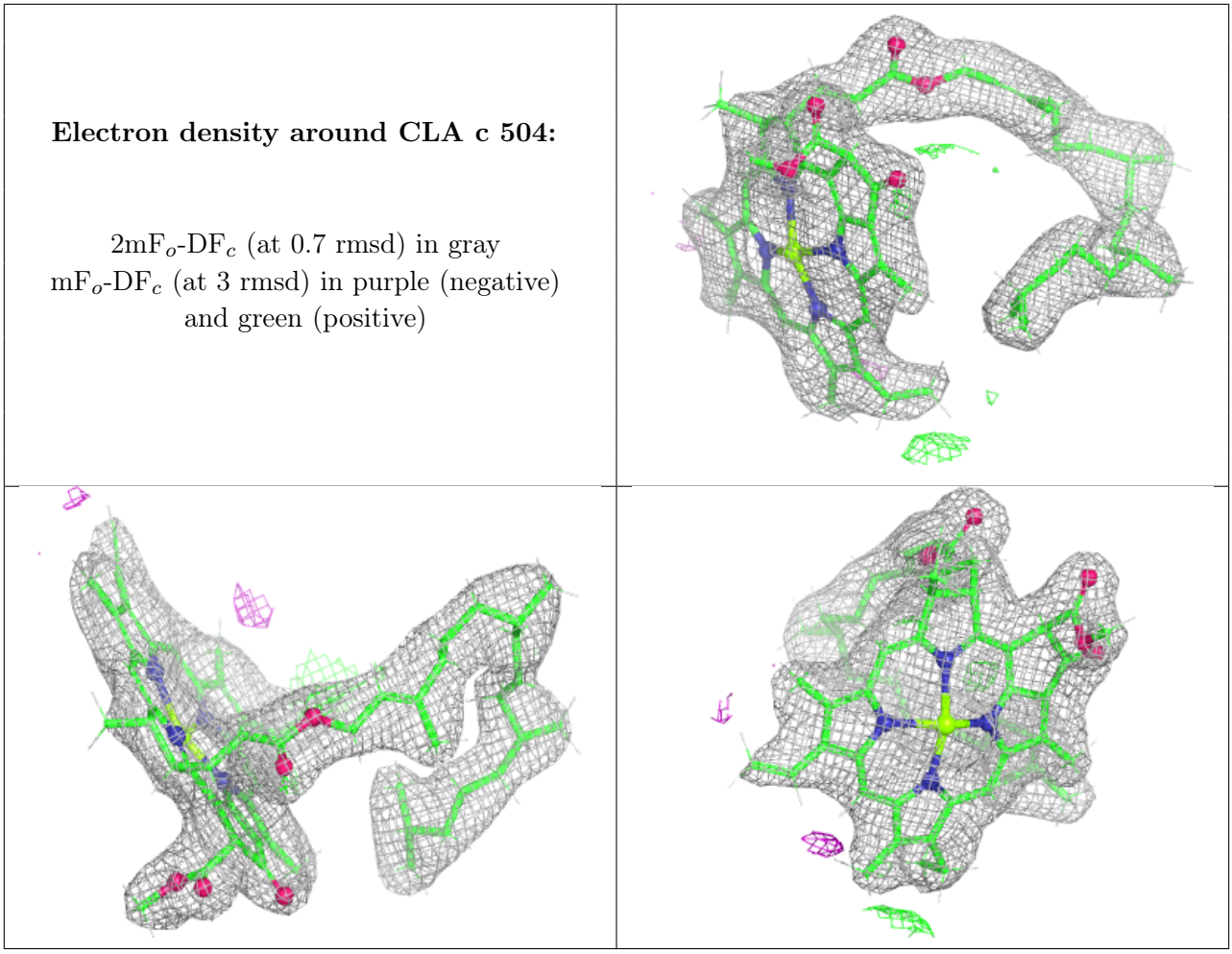






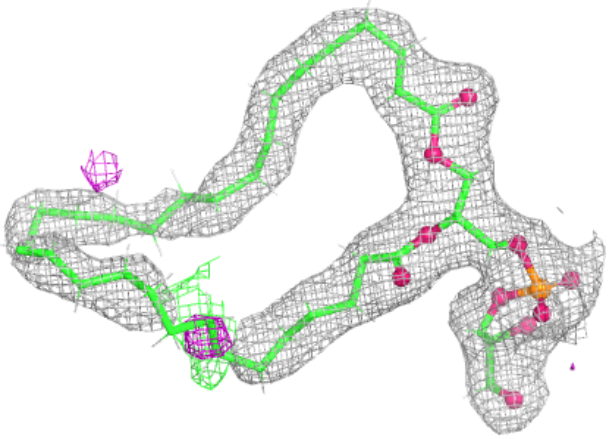
Electron density around CLA c 504:

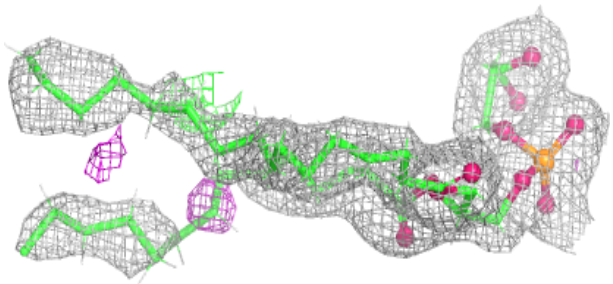
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

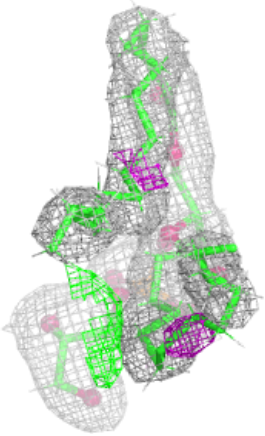


Electron density around LHG D 411:

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

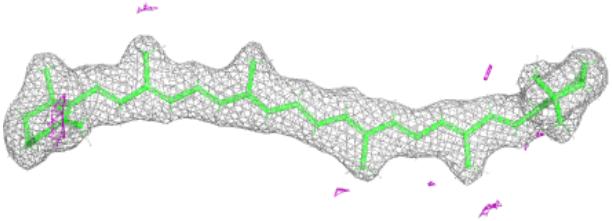


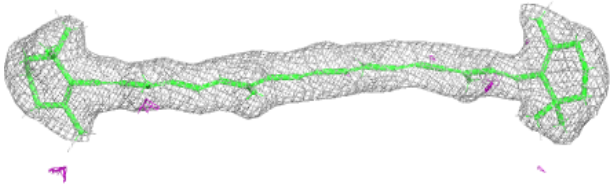


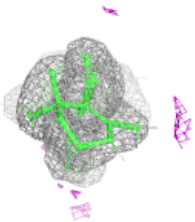


Electron density around BCR a 407:

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

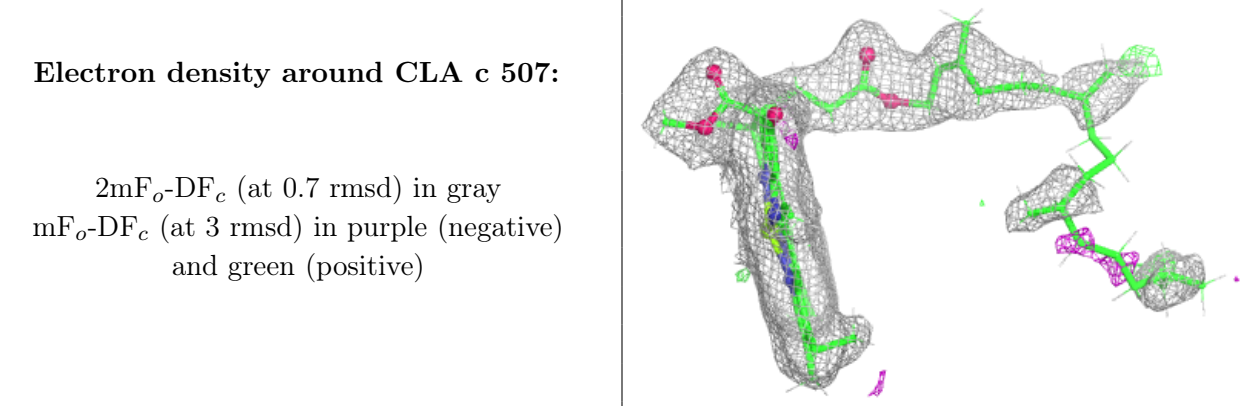






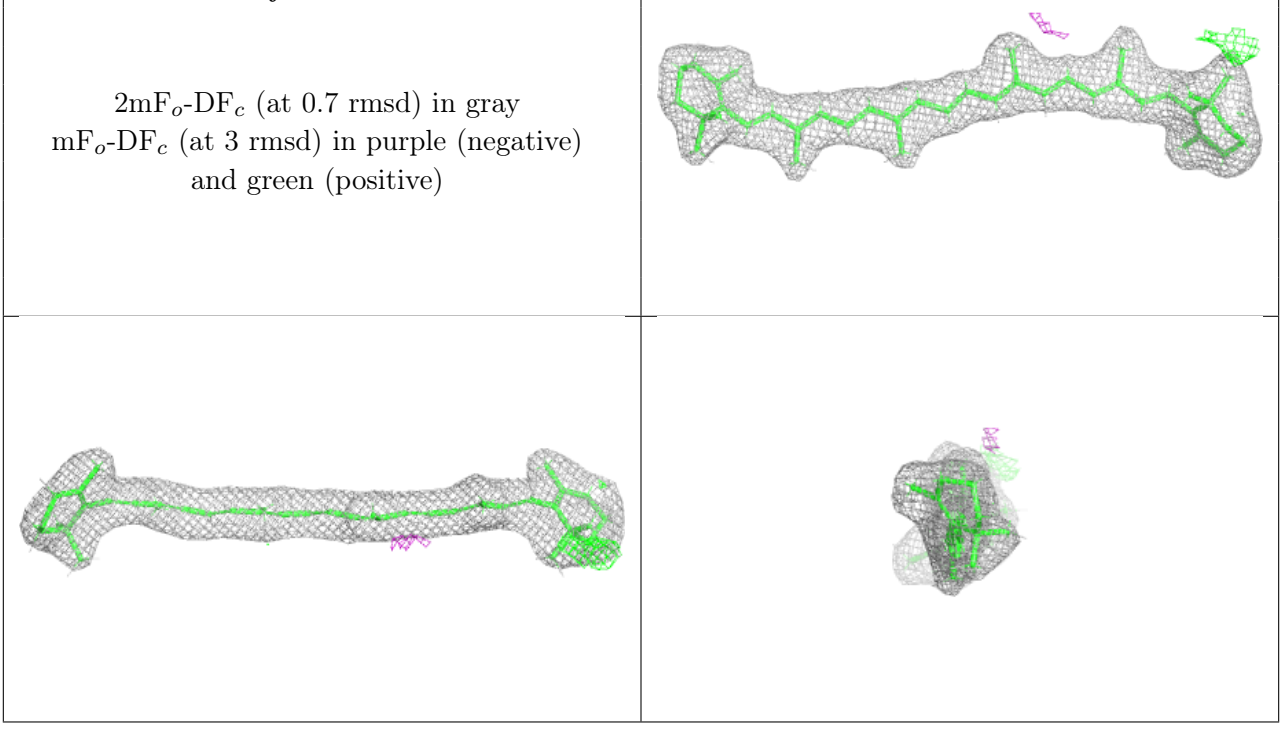
Electron density around CLA c 507:

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



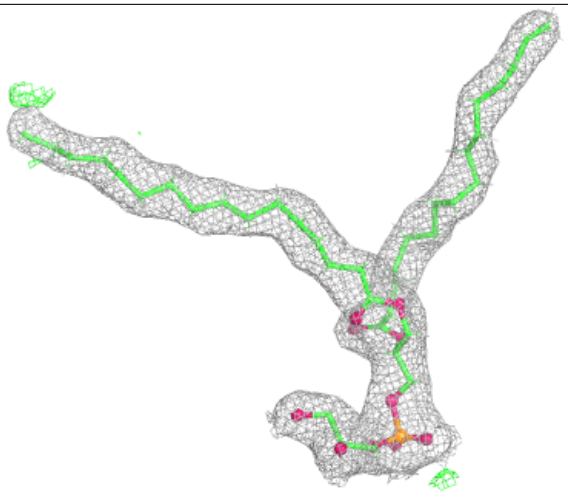
Electron density around BCR b 718:

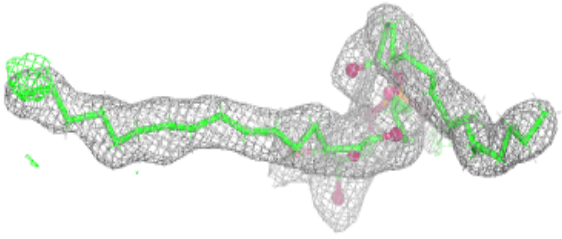
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

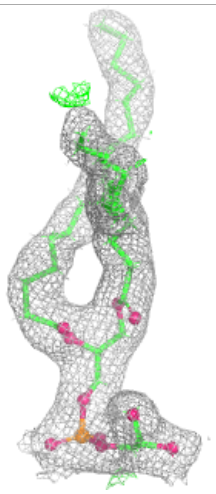


Electron density around LHG l 101:

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

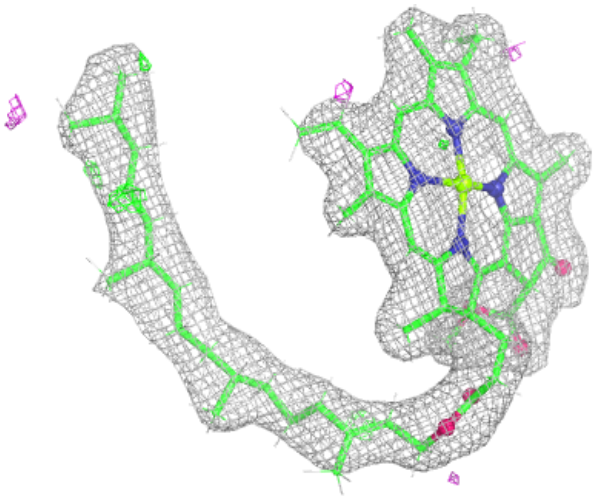


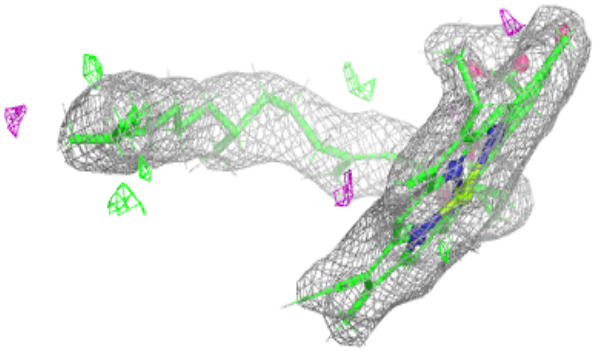




Electron density around CLA c 508:

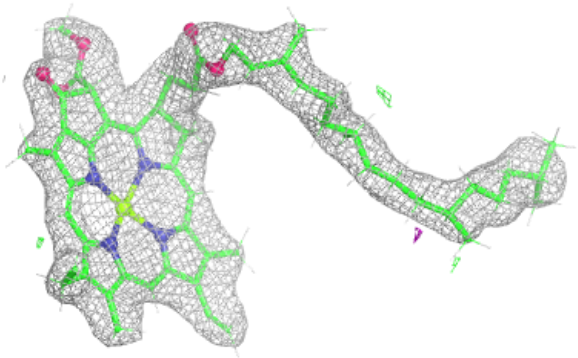
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

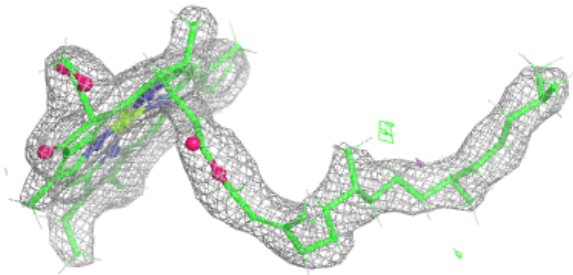


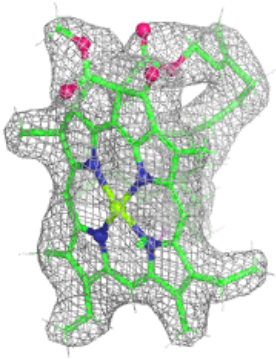


Electron density around CLA C 512:

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

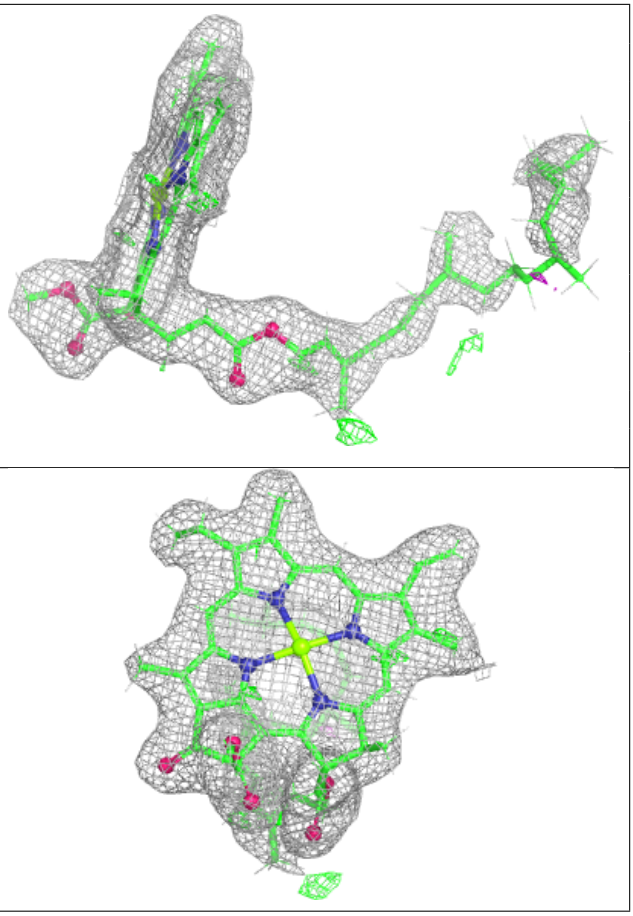






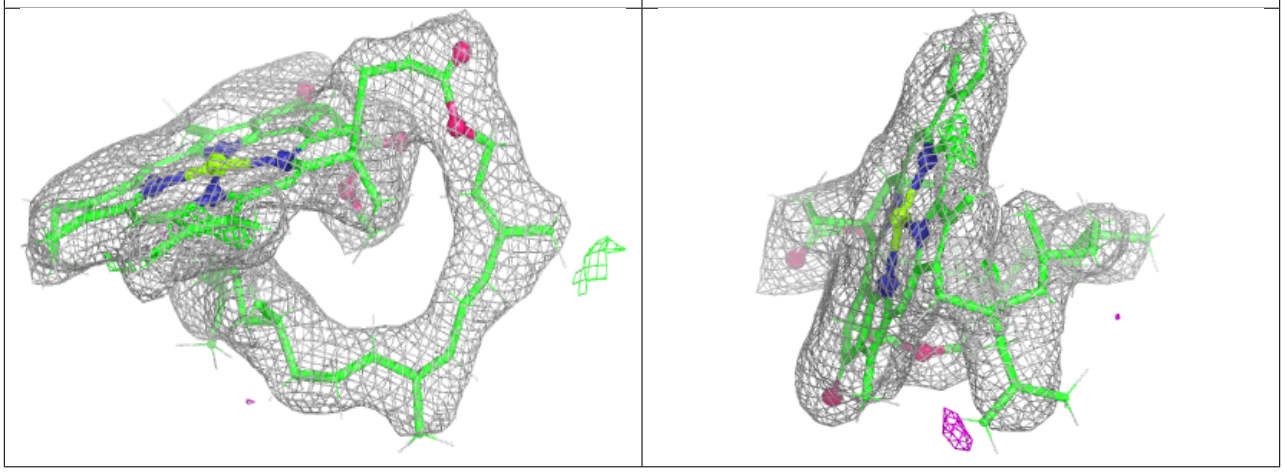
Electron density around CLA C 507:

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



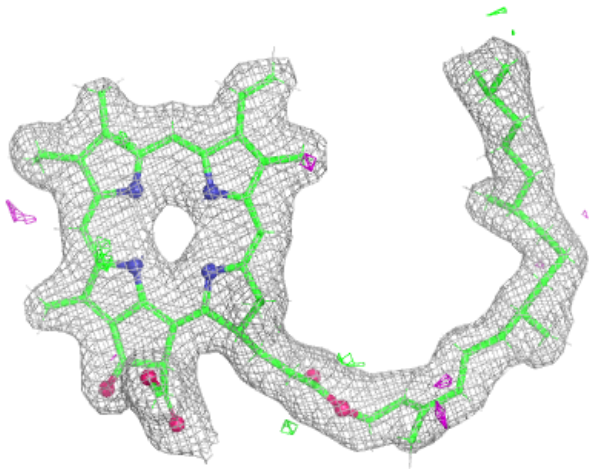
Electron density around CLA c 511:

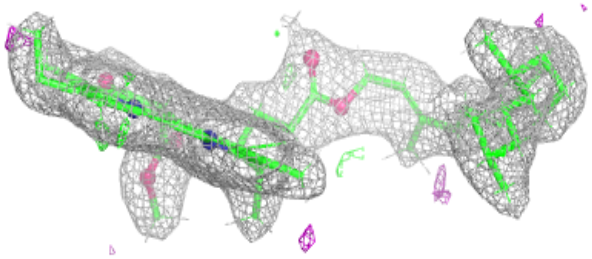
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

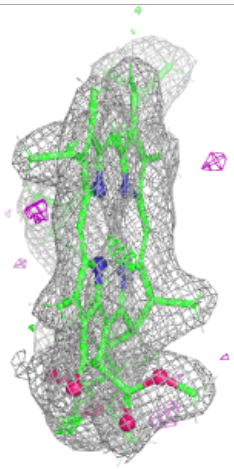


Electron density around PHO a 405:

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

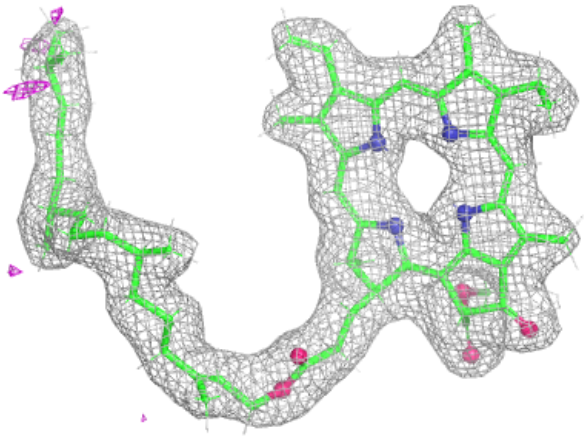


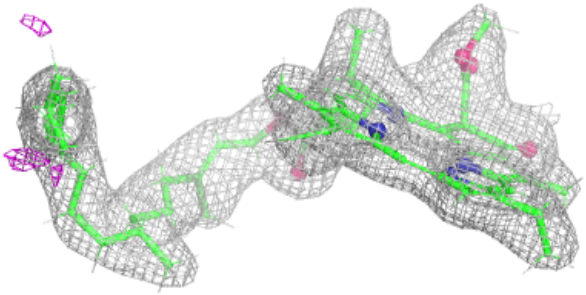


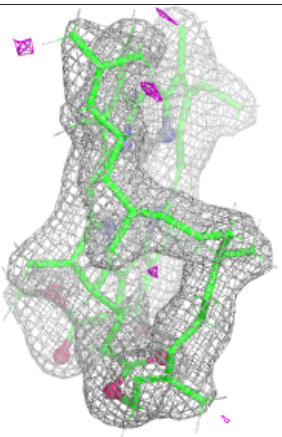


Electron density around PHO d 405:

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

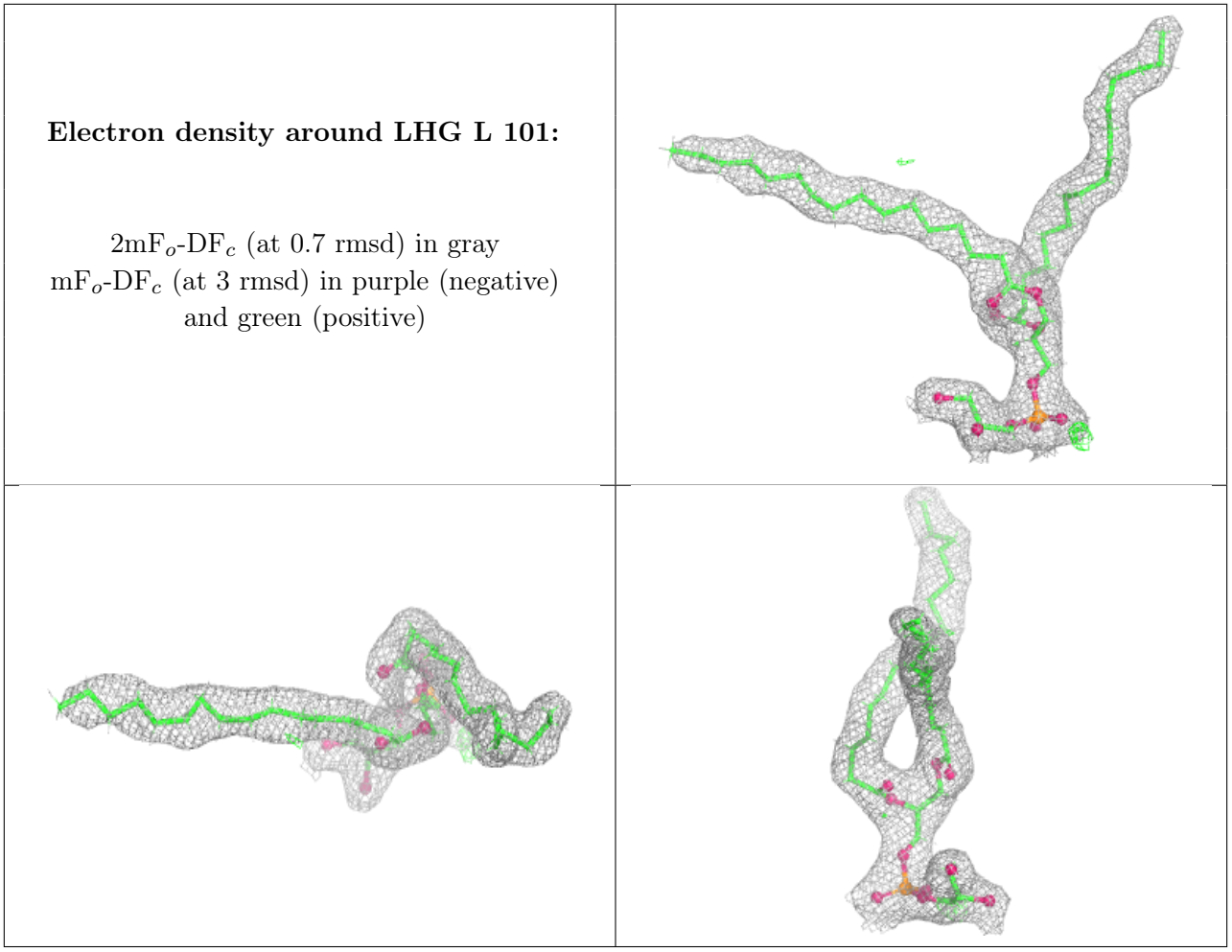






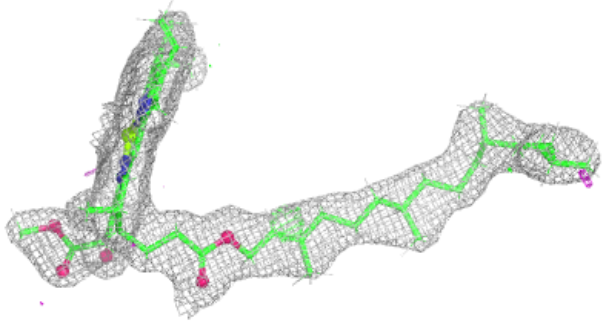
Electron density around LHG L 101:

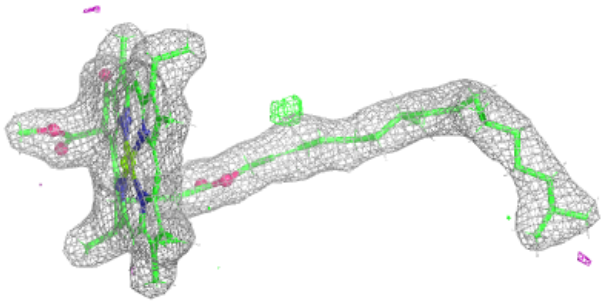
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

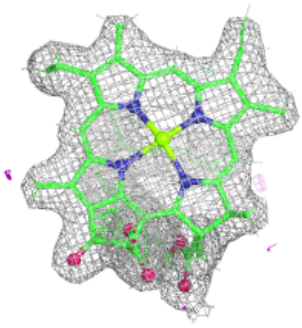


Electron density around CLA b 705:

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

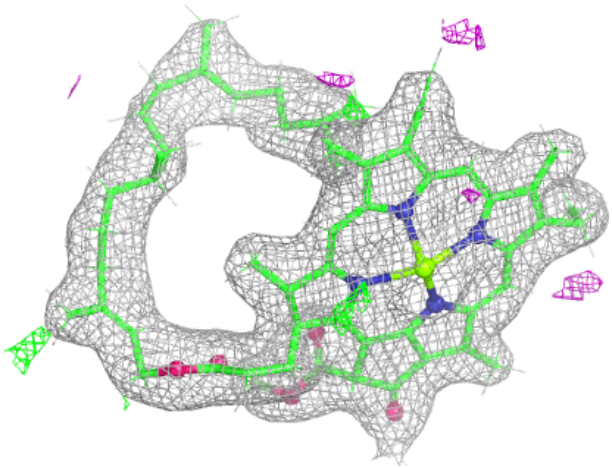


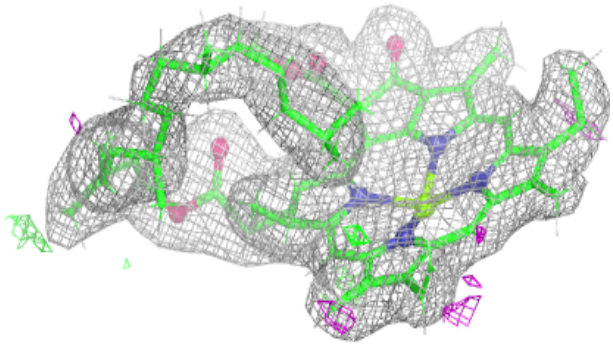


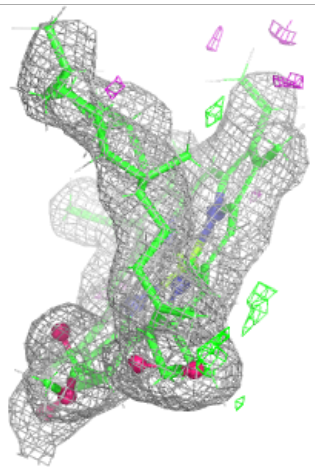


Electron density around CLA B 715:

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

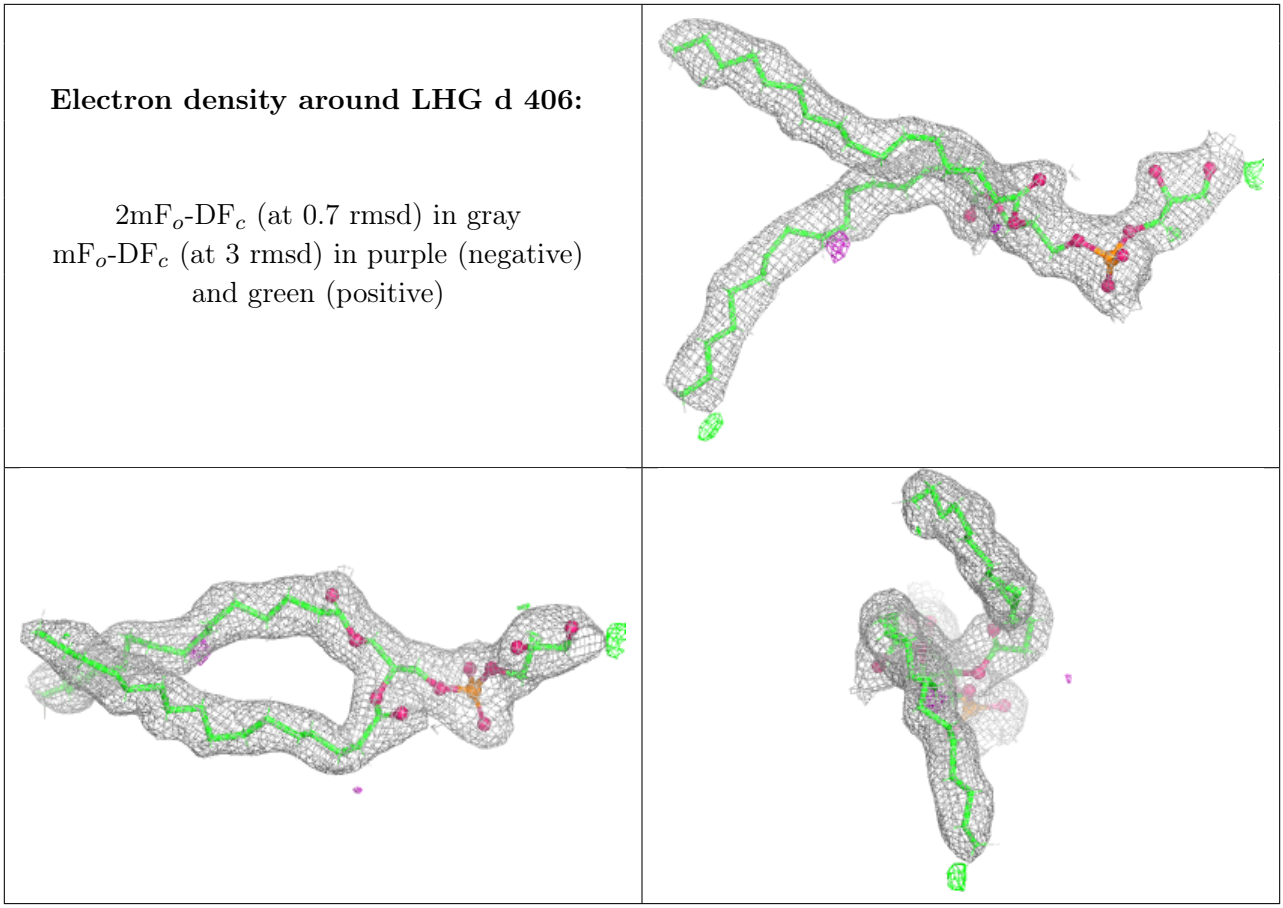






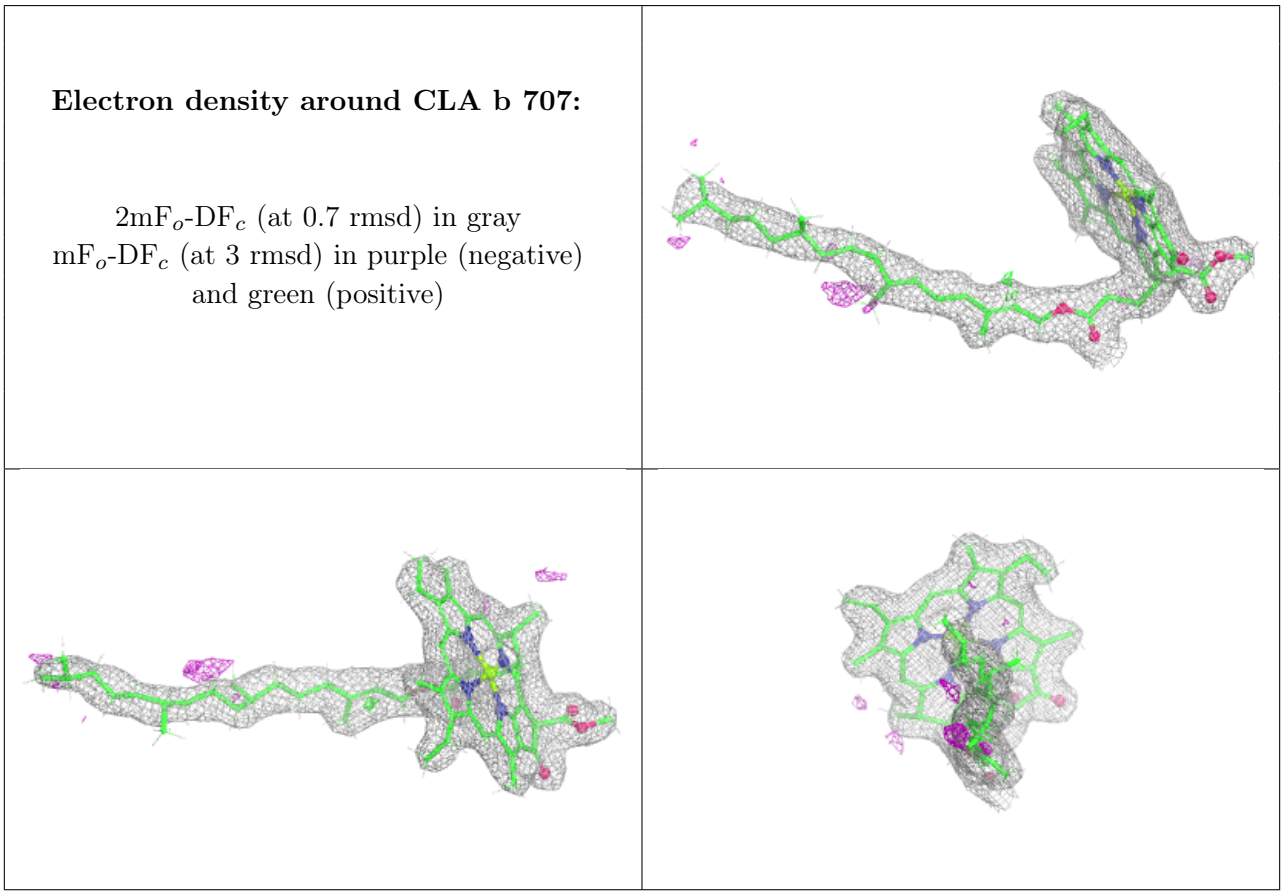
Electron density around LHG d 406:

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



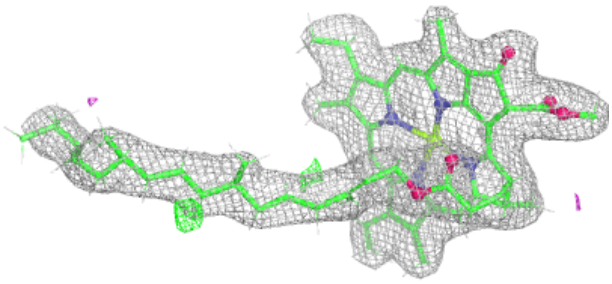
Electron density around CLA b 707:

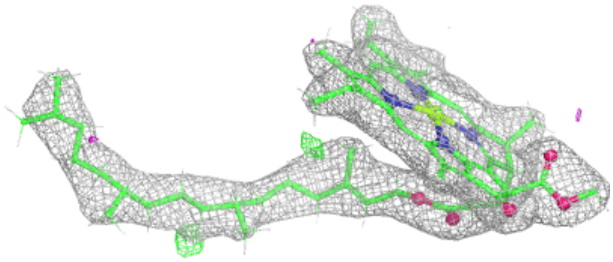
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

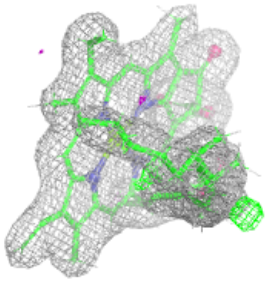


Electron density around CLA b 708:

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

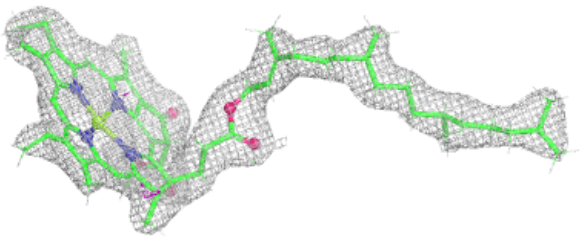


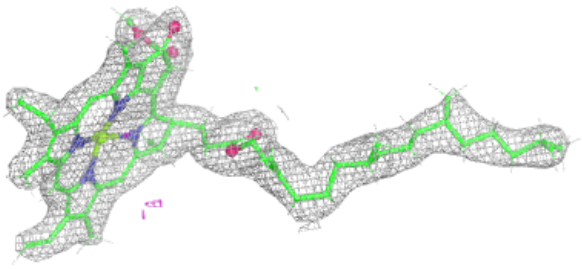


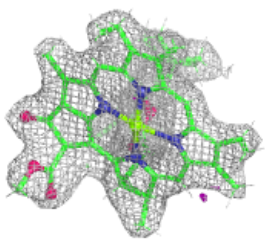


Electron density around CLA C 503:

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

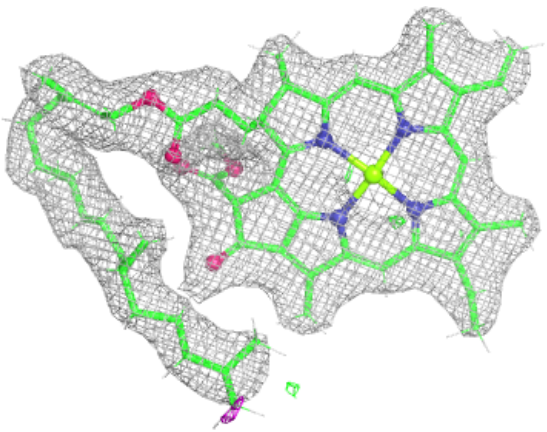


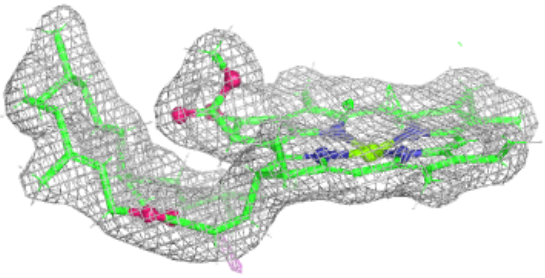




Electron density around CLA b 710:

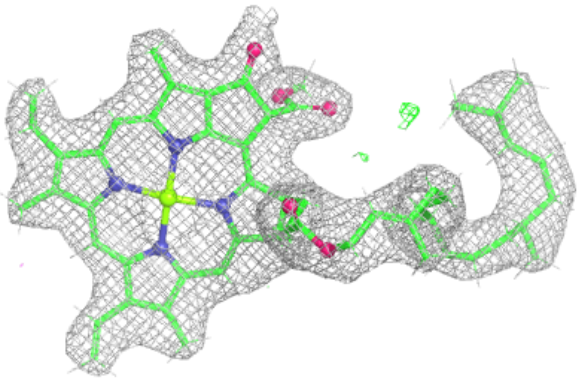
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

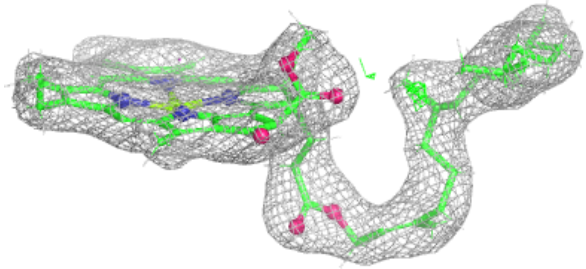


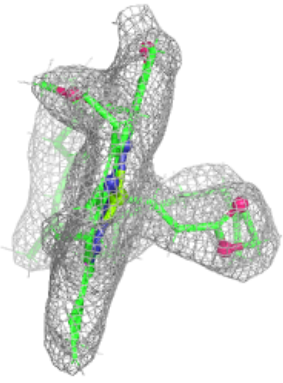


Electron density around CLA b 712:

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

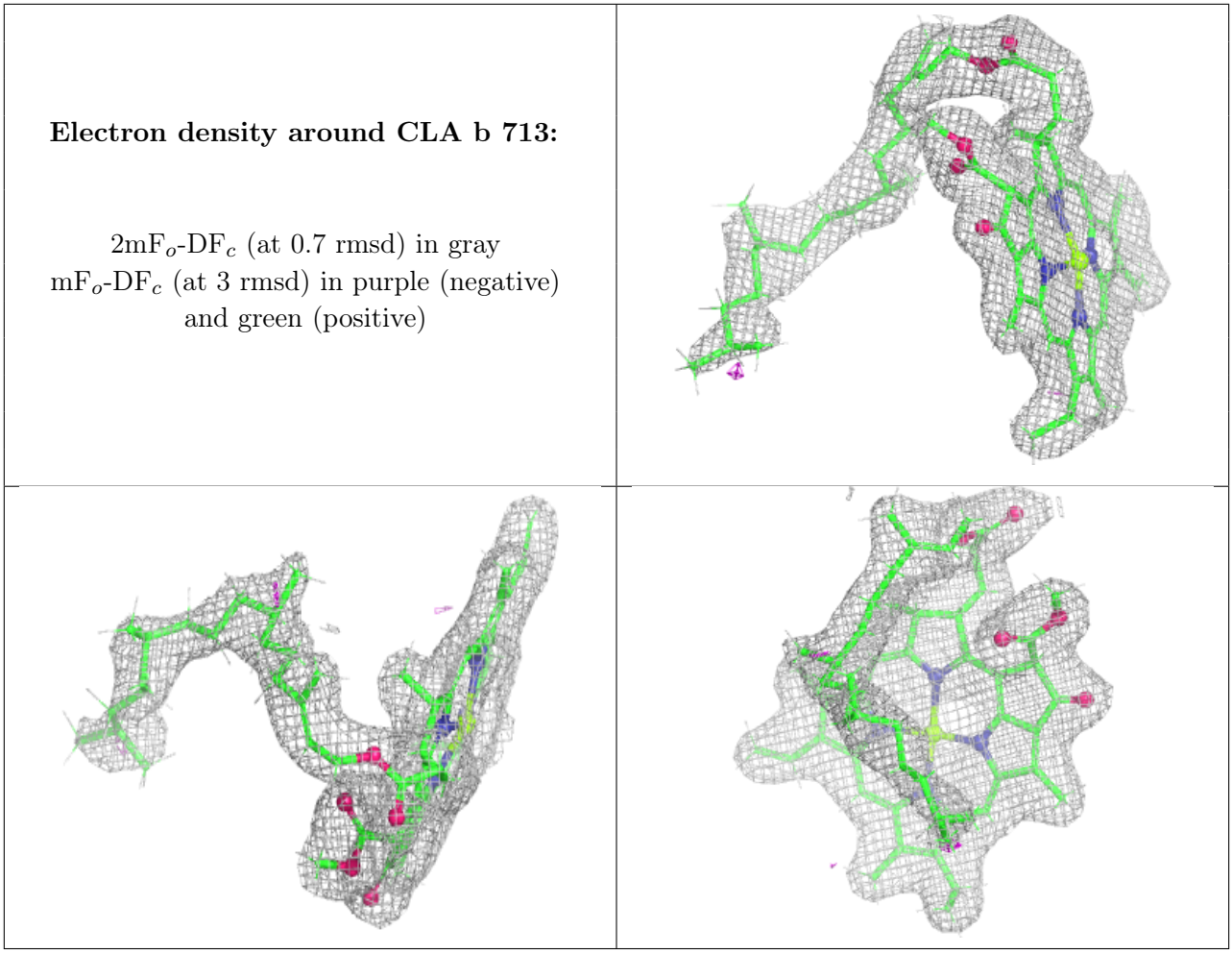






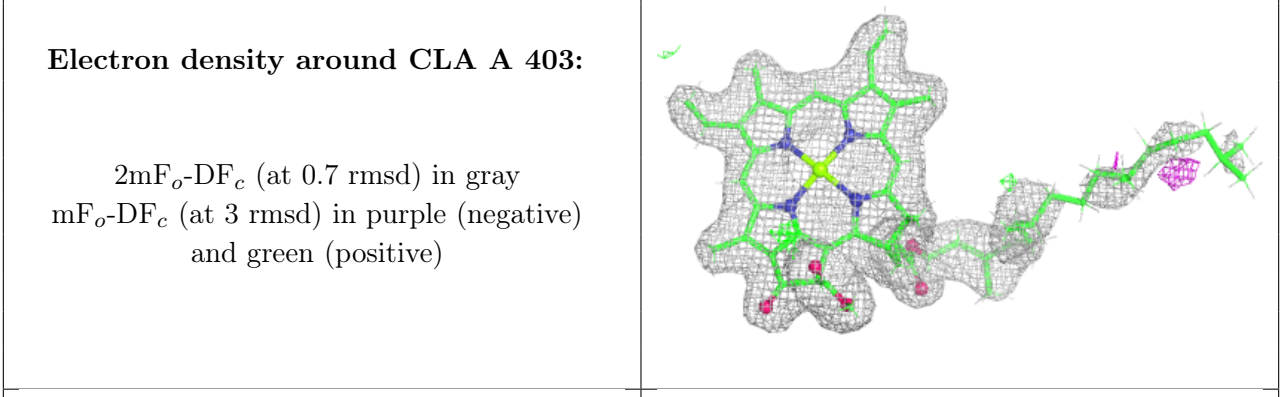
Electron density around CLA b 713:

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



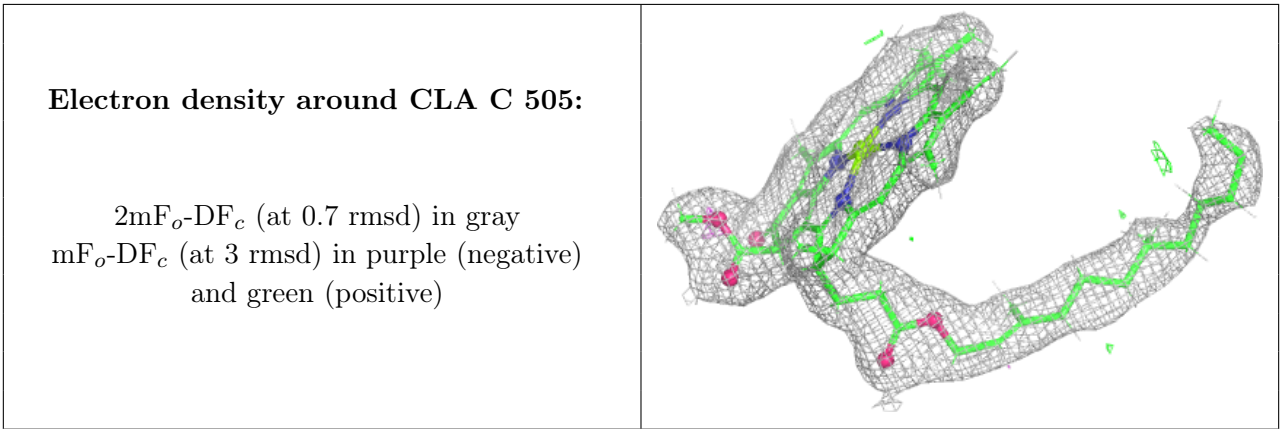
Electron density around CLA A 403:

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



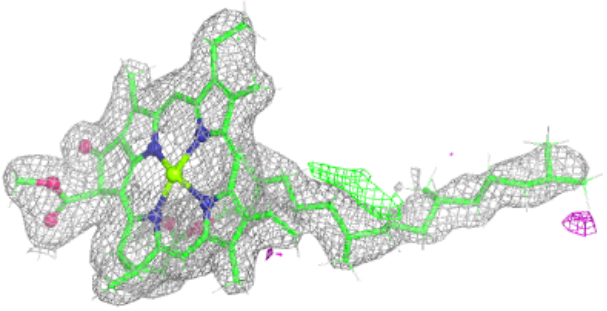
Electron density around CLA C 505:

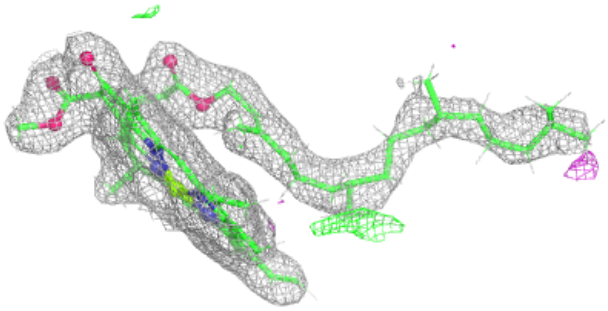
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

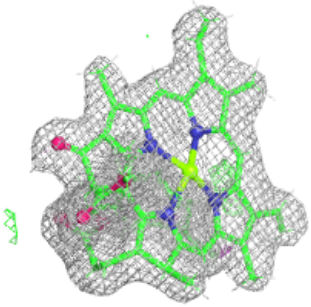


Electron density around CLA C 506:

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

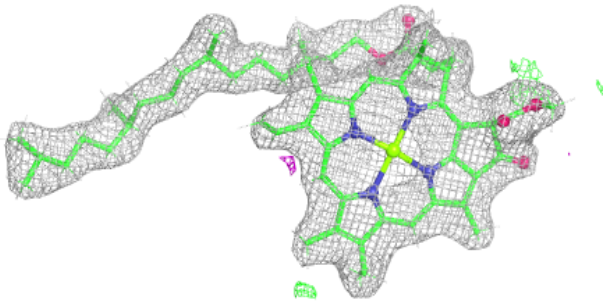


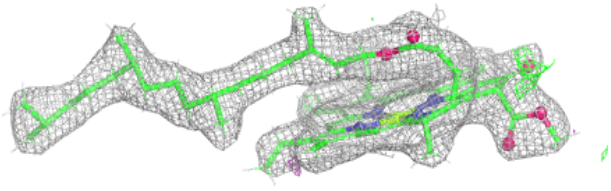


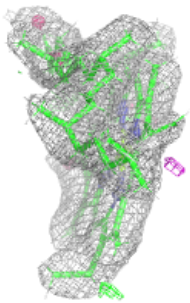


Electron density around CLA c 502:

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

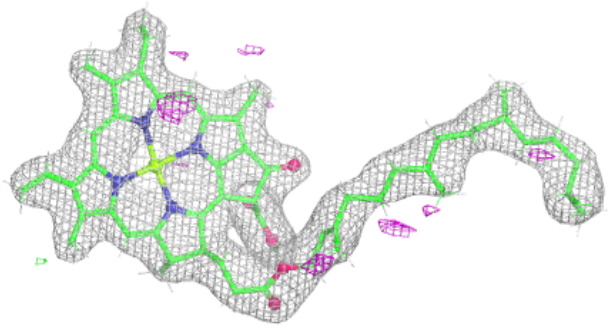


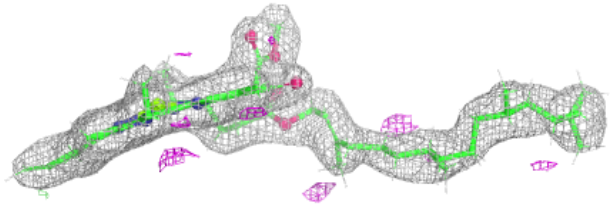


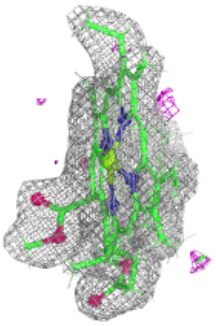


Electron density around CLA B 702:

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

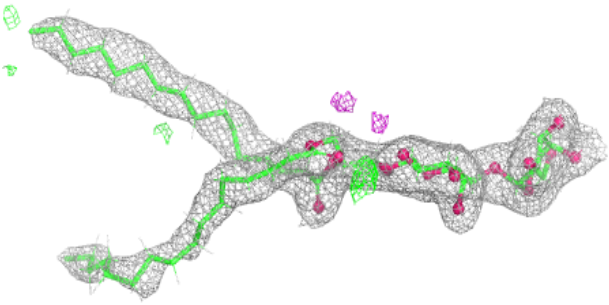


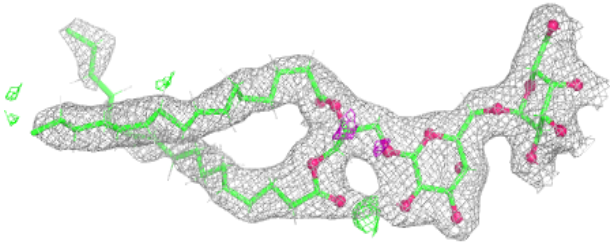


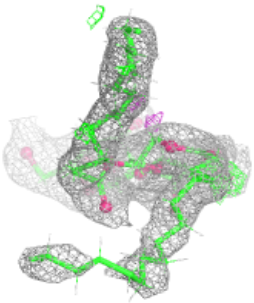


Electron density around DGD c 517:

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

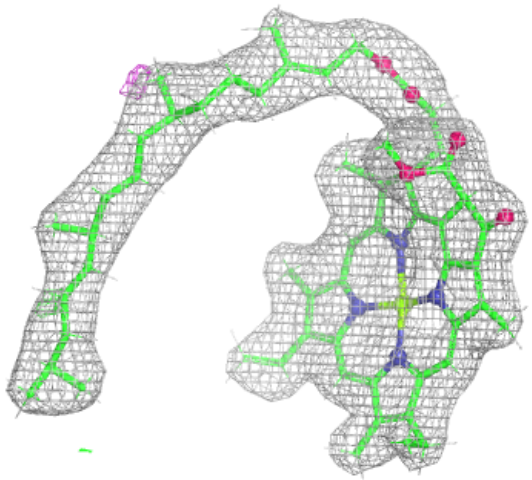


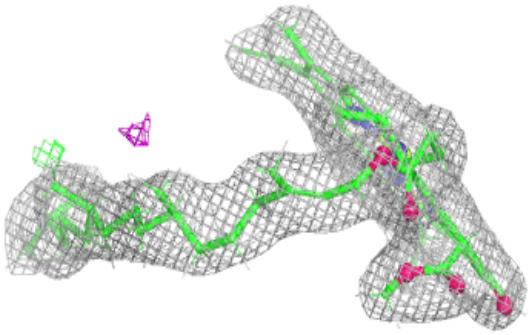


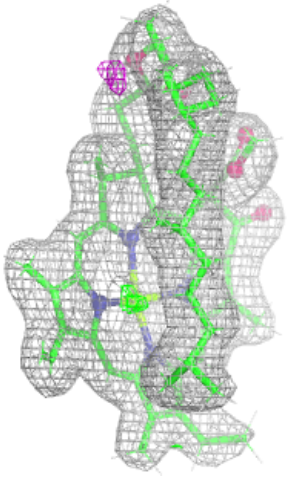


Electron density around CLA C 508:

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

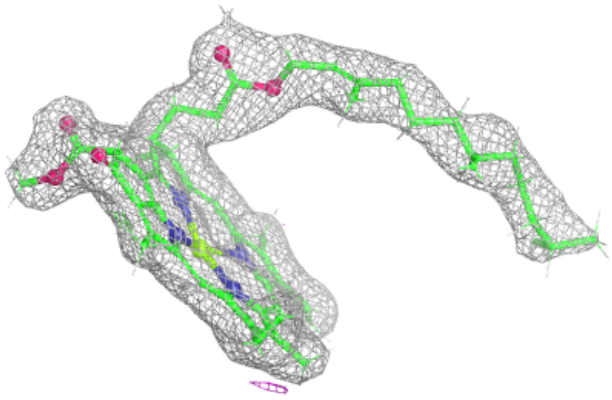


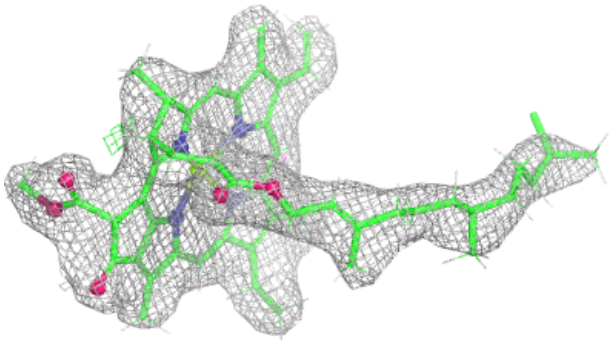


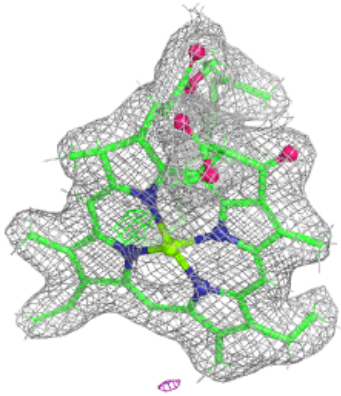


Electron density around CLA c 505:

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

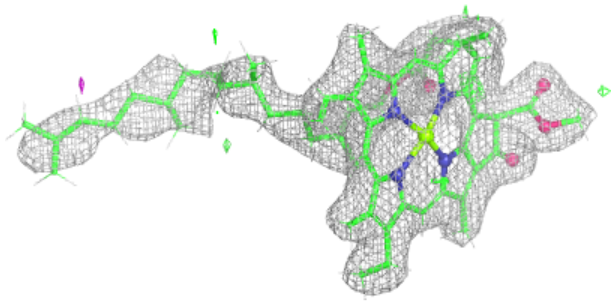


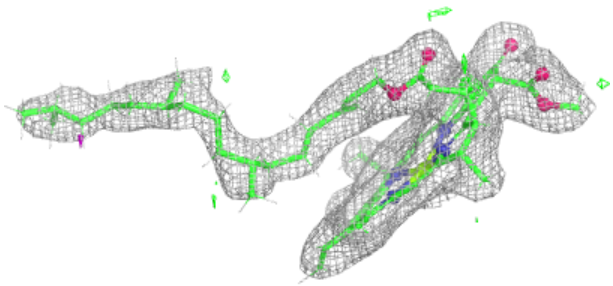


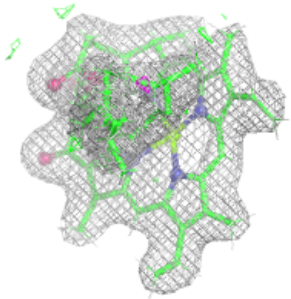


Electron density around CLA c 506:

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

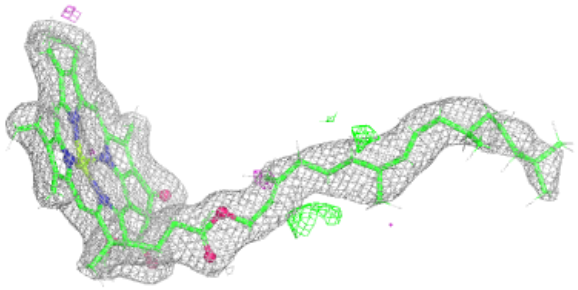


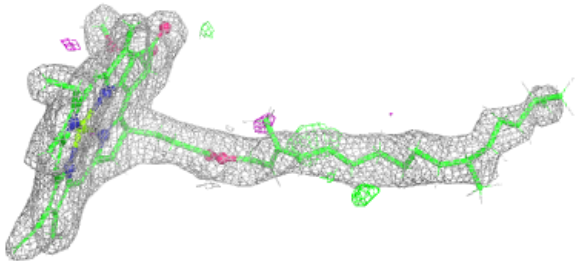


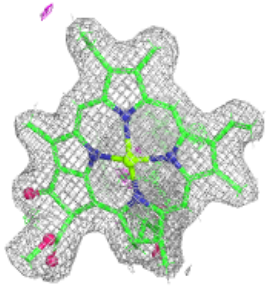


Electron density around CLA B 704:

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

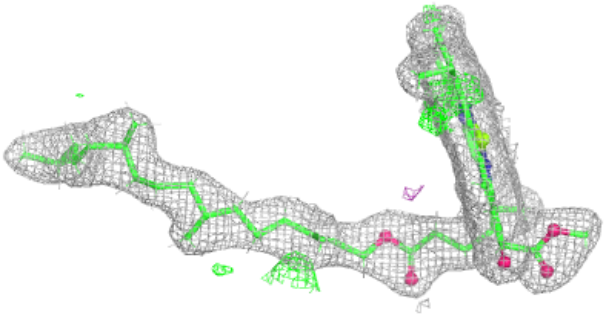


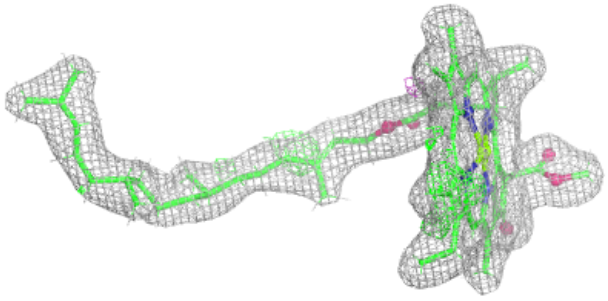


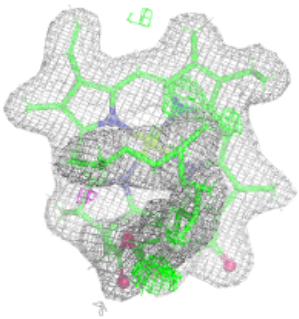


Electron density around CLA B 705:

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

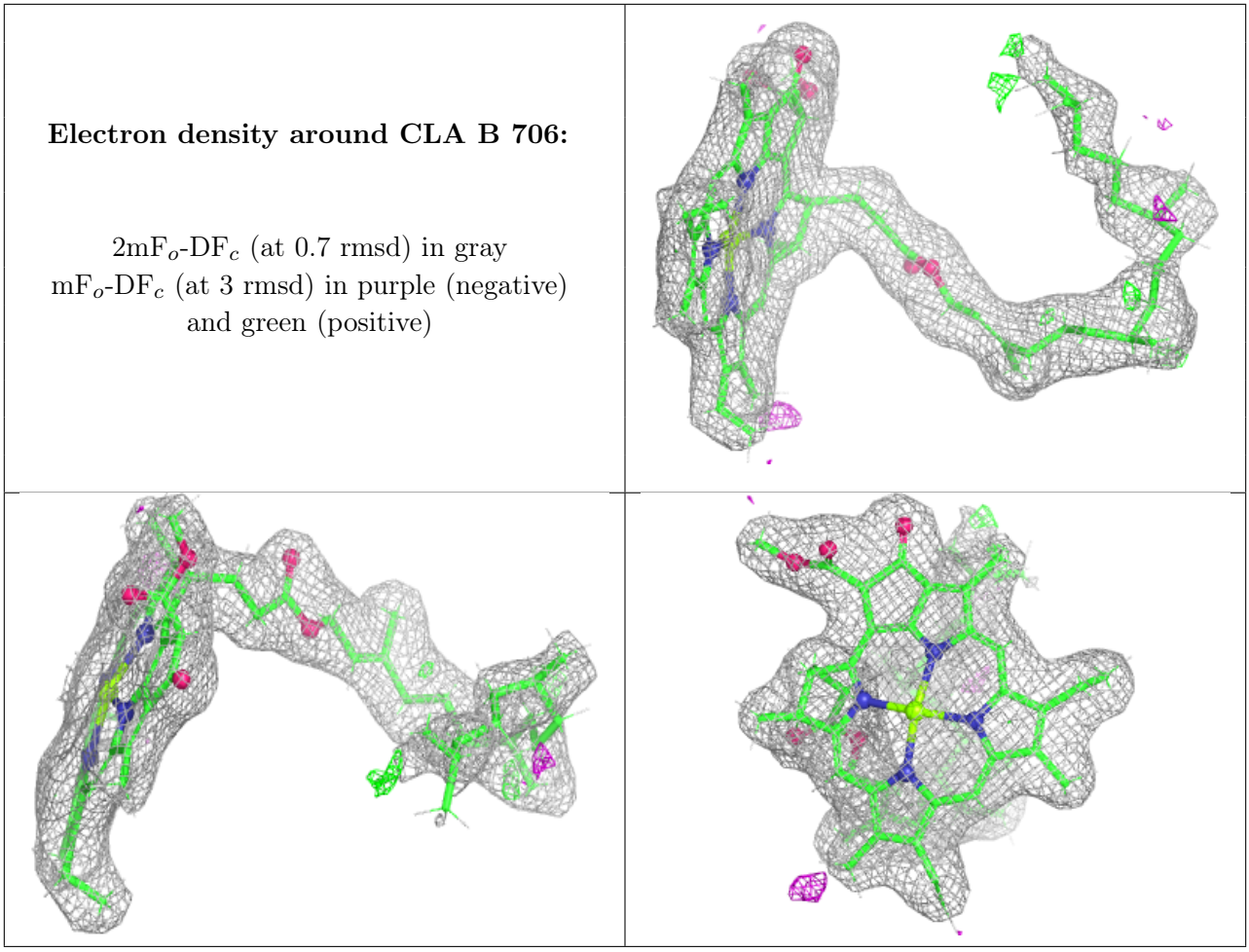






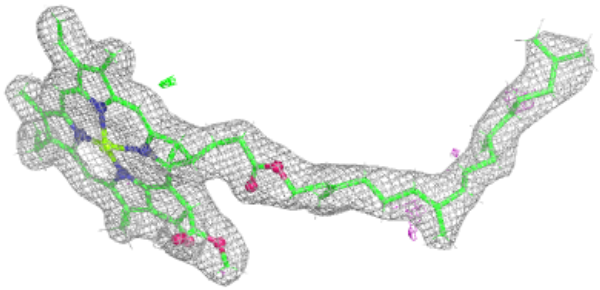
Electron density around CLA B 706:

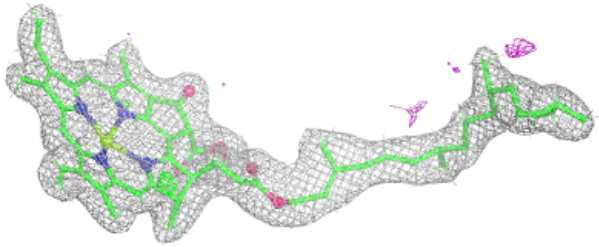
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

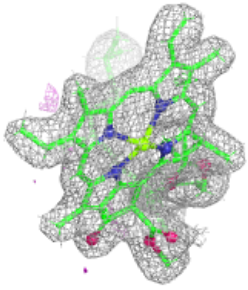


Electron density around CLA A 402:

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

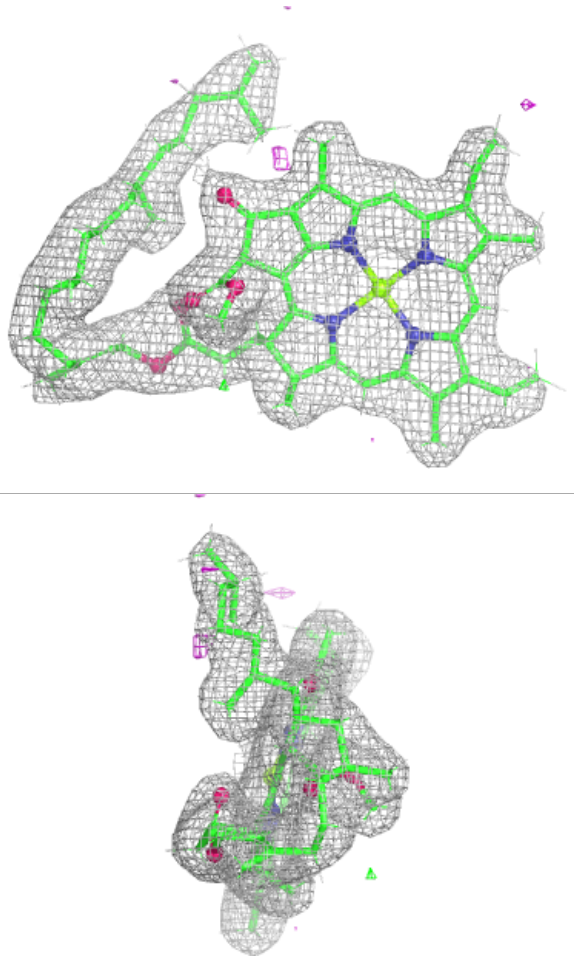


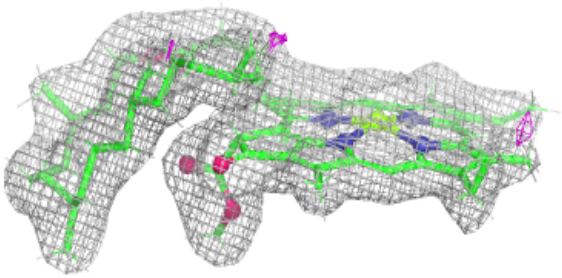




Electron density around CLA B 710:

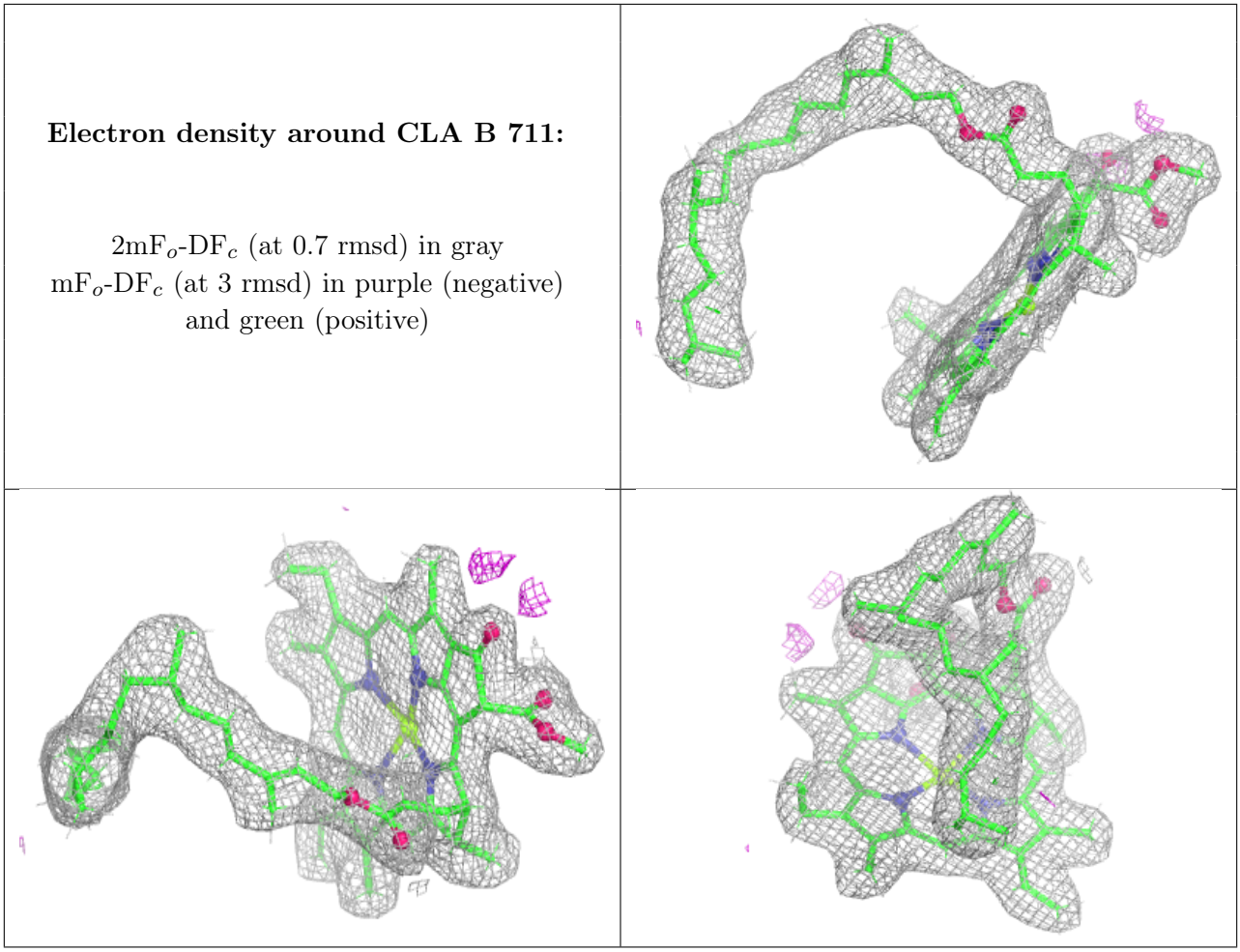
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





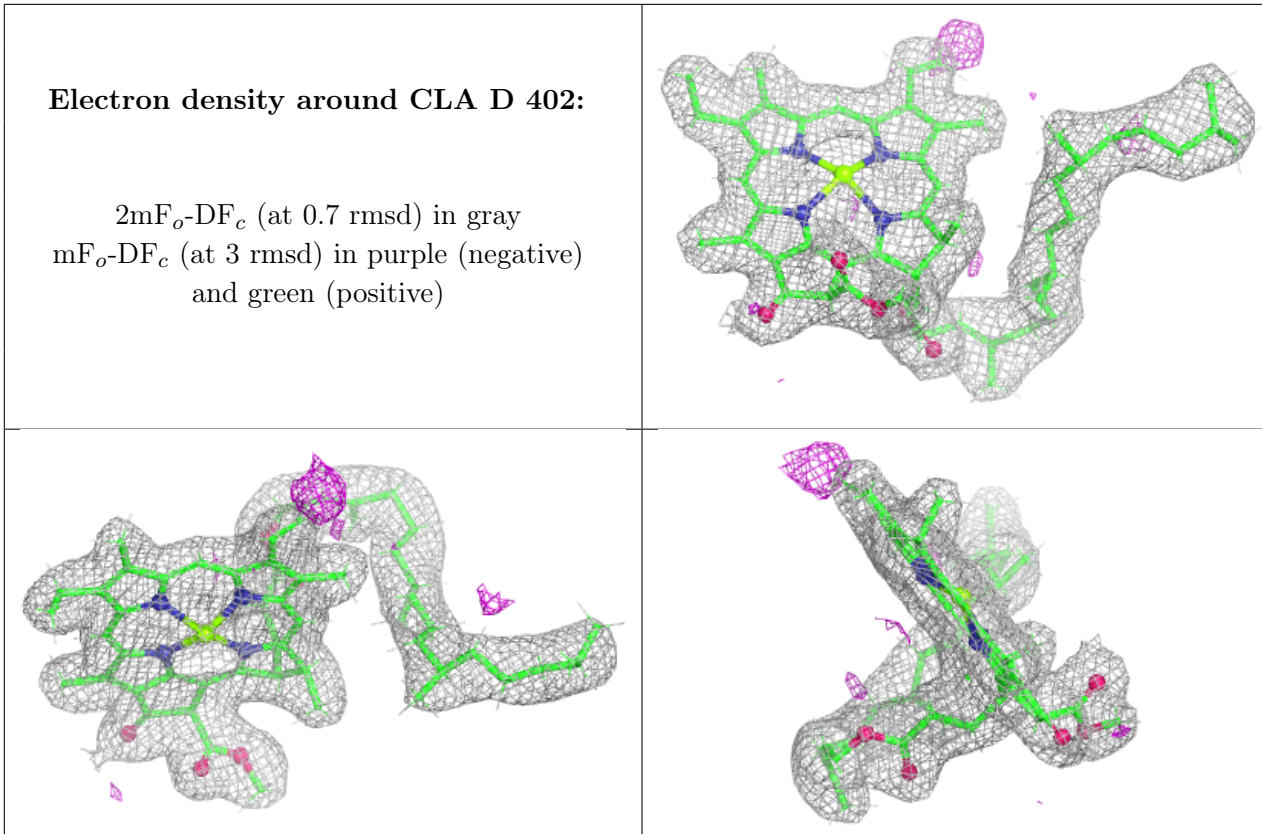
Electron density around CLA B 711:

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



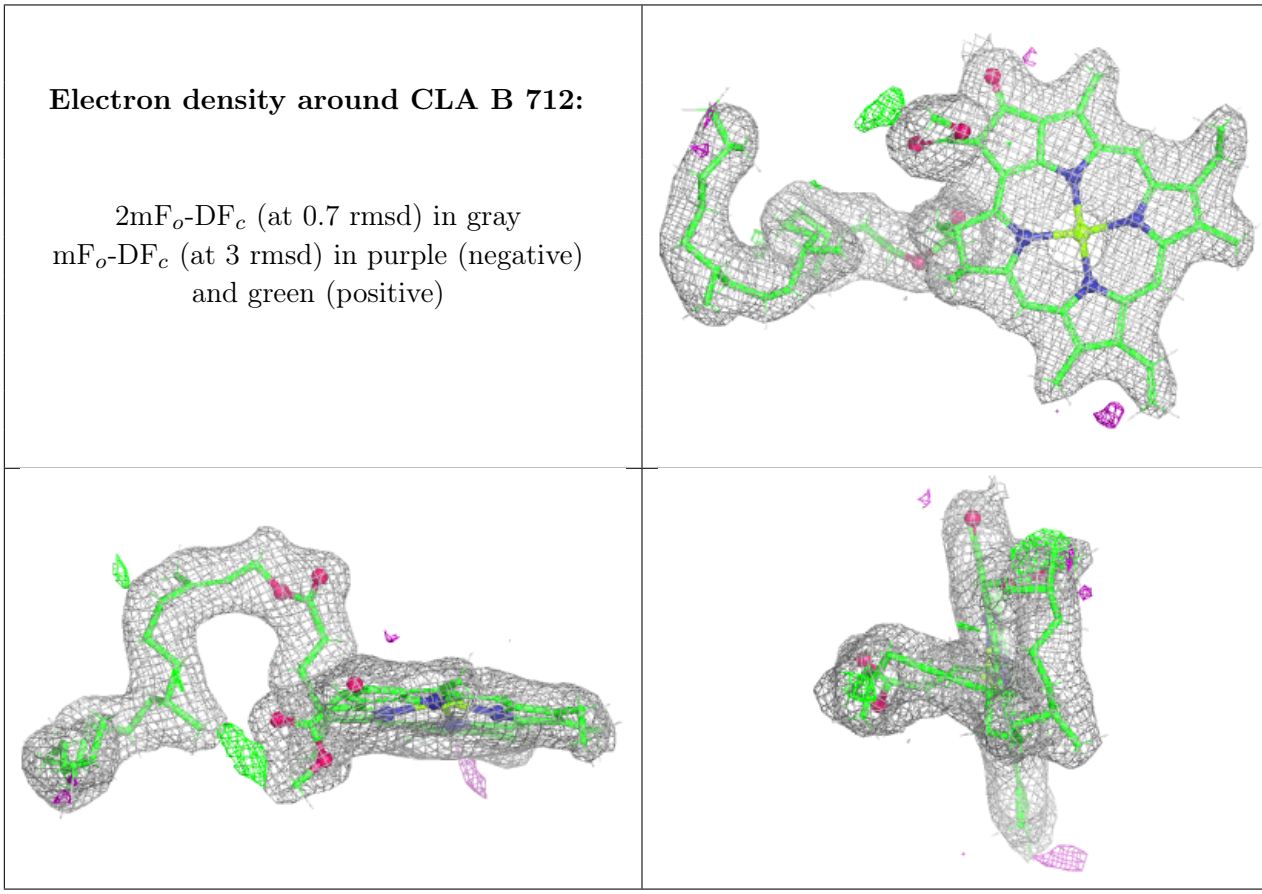
Electron density around CLA D 402:

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



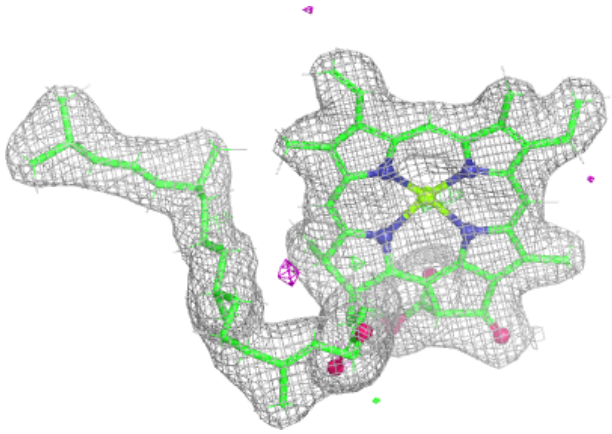
Electron density around CLA B 712:

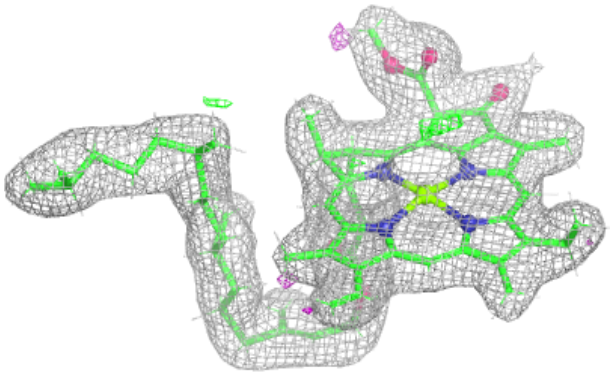
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

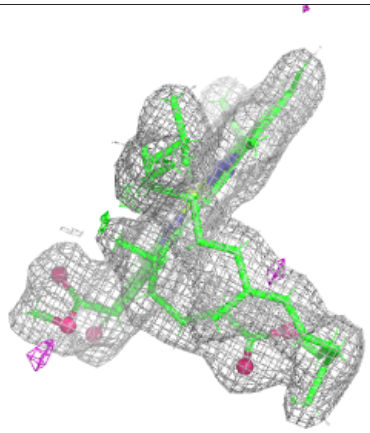


Electron density around CLA a 401:

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

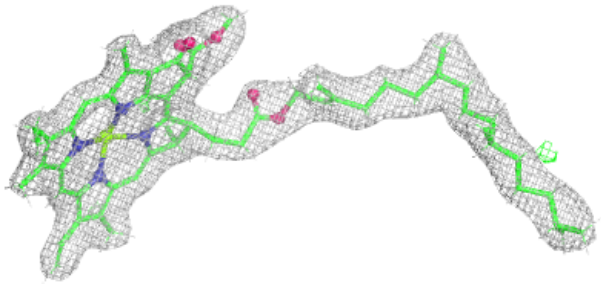


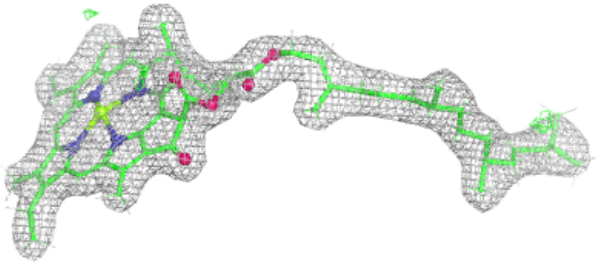


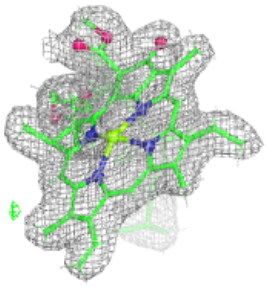


Electron density around CLA a 403:

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

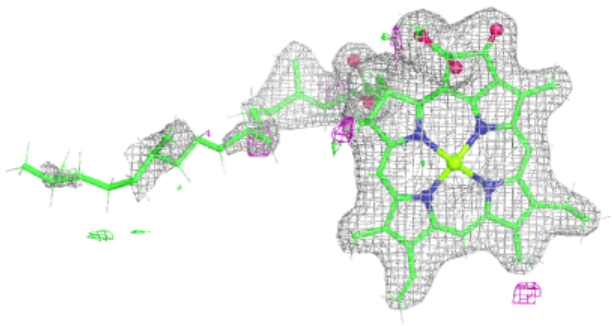


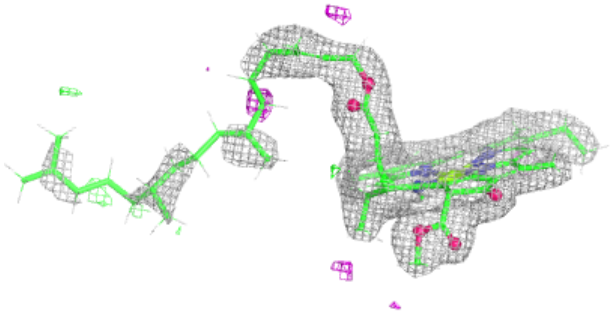


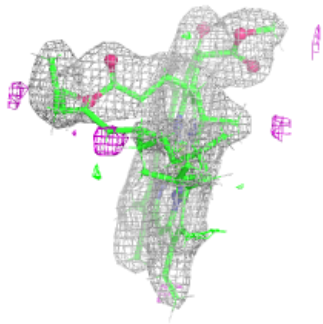


Electron density around CLA a 404:

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

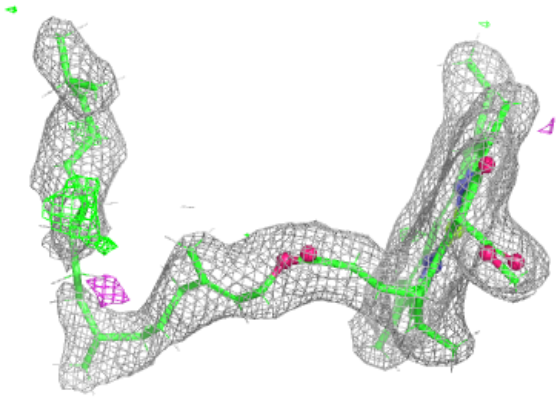


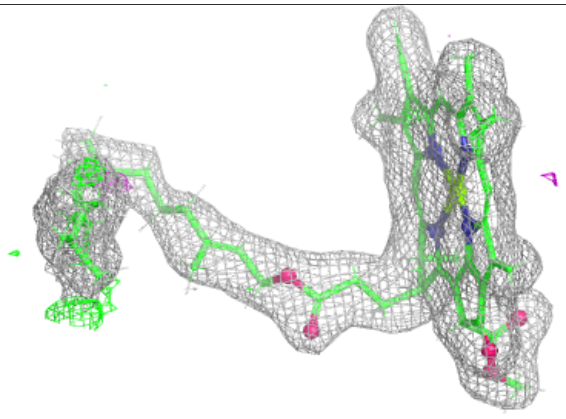


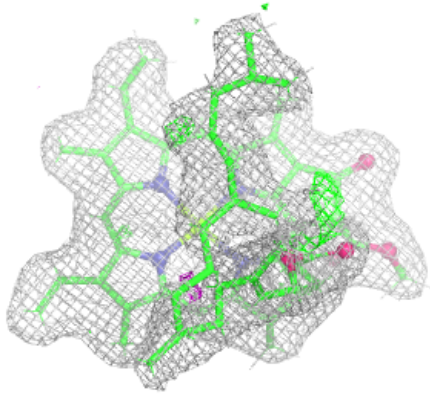


Electron density around CLA a 406:

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

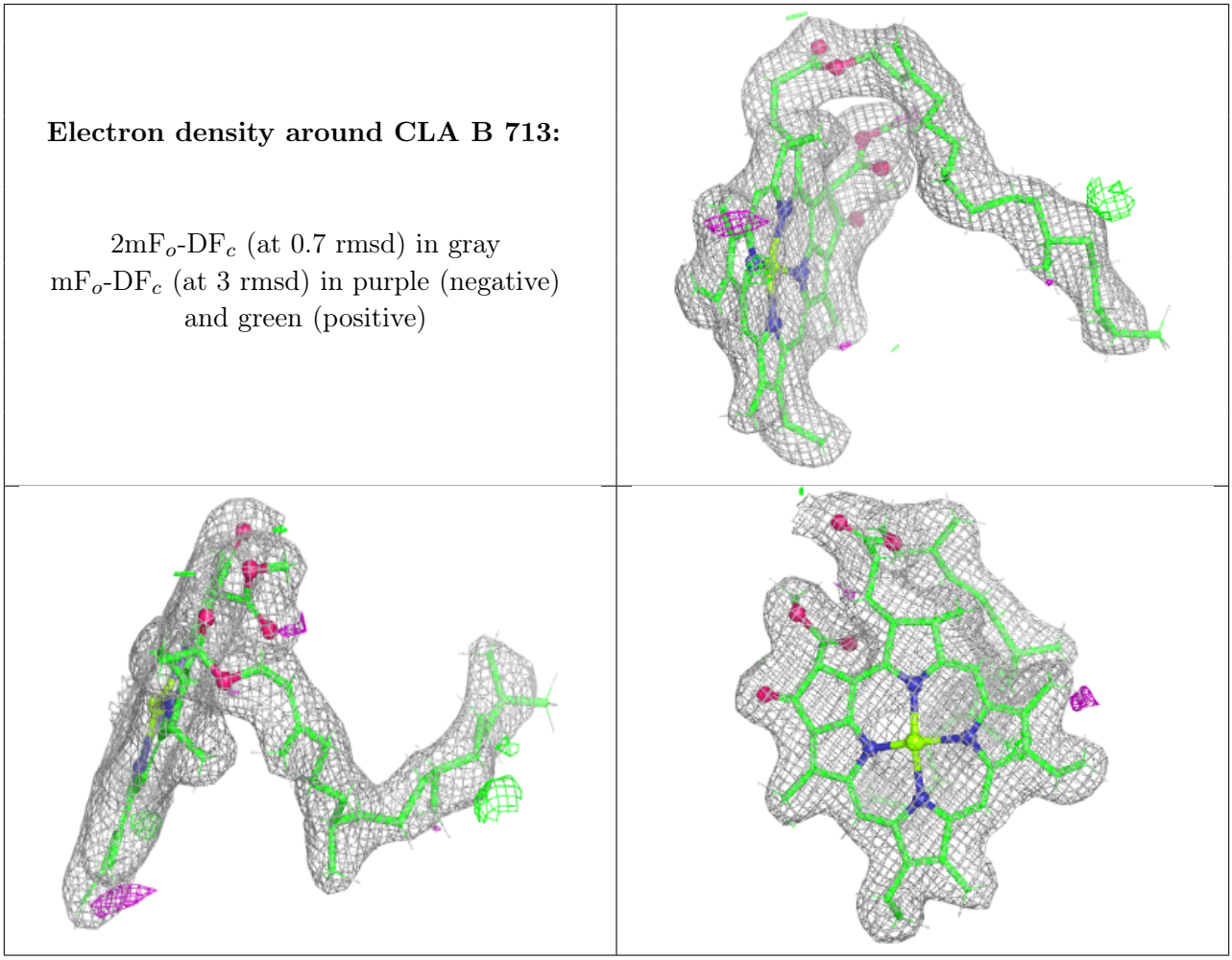






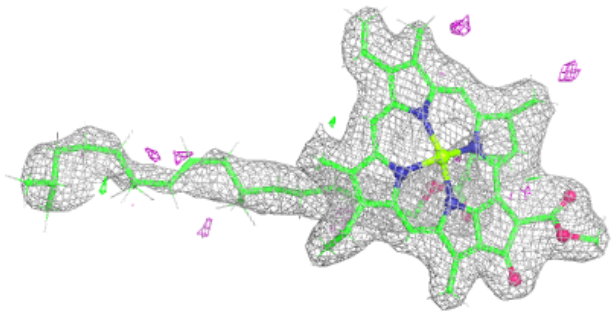
Electron density around CLA B 713:

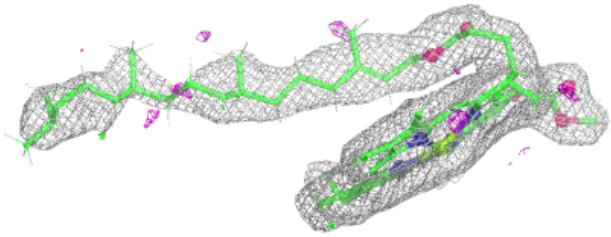
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

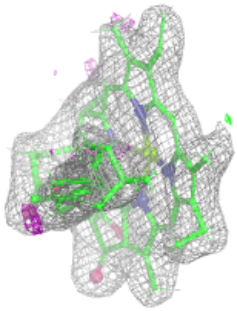


Electron density around CLA B 714:

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

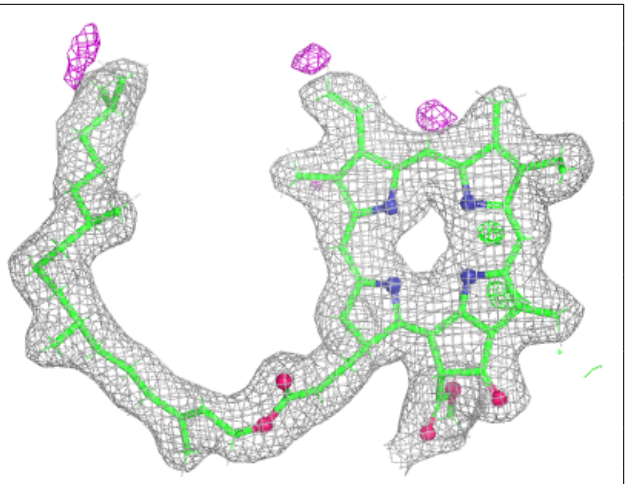


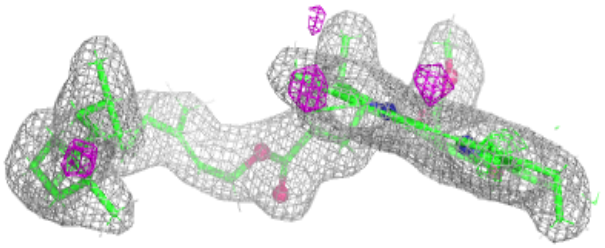


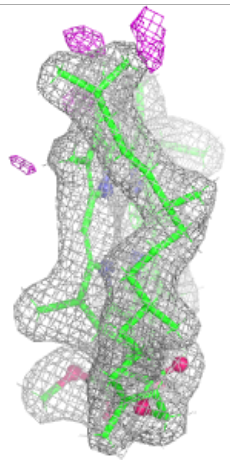


Electron density around PHO D 406:

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

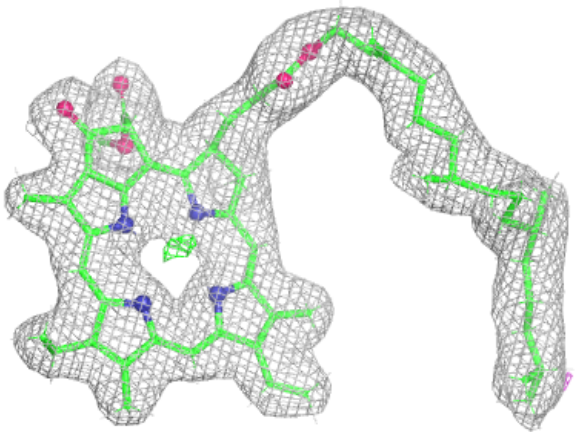


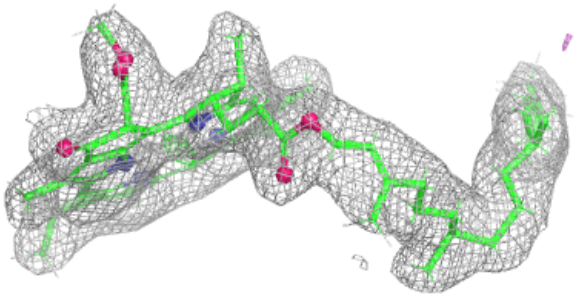


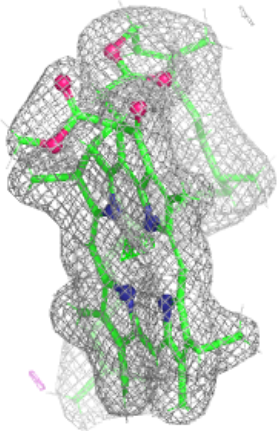


Electron density around PHO D 407:

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

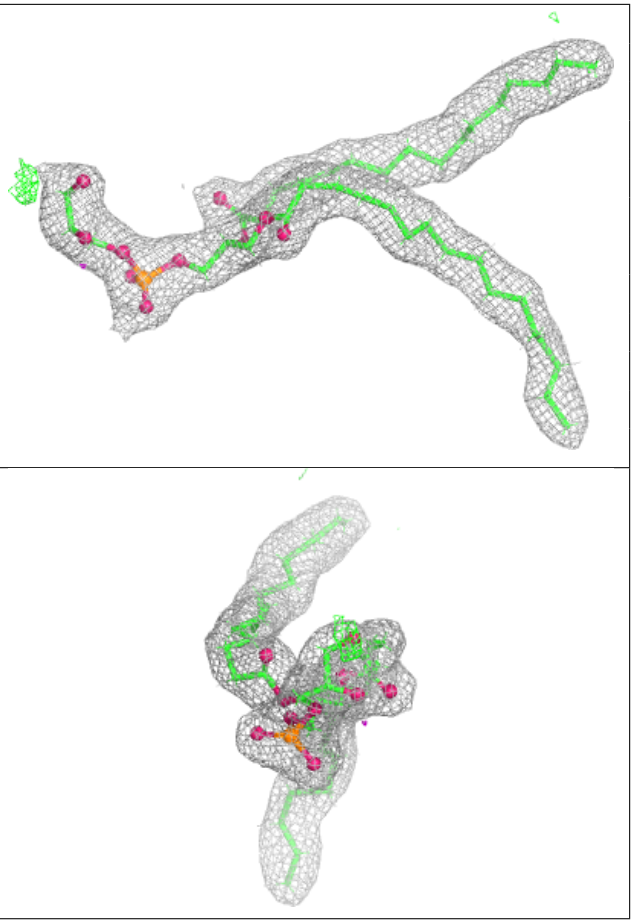






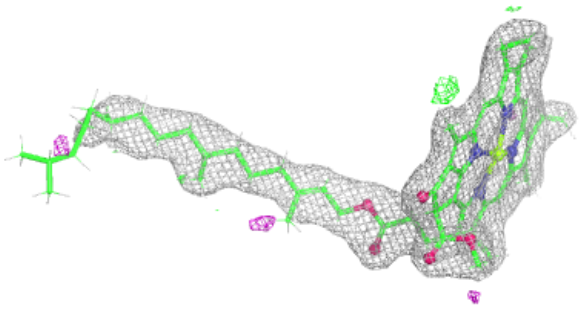
Electron density around LHG D 410:

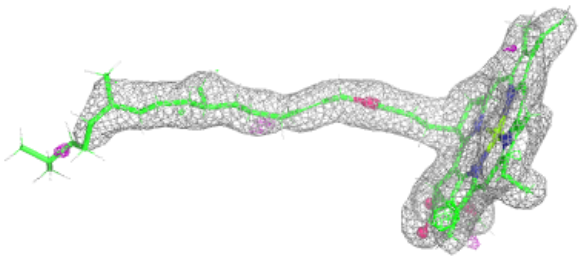
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

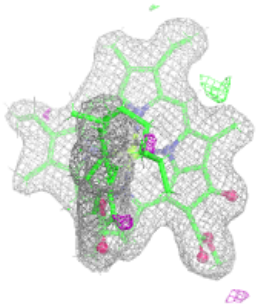


Electron density around CLA b 704:

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

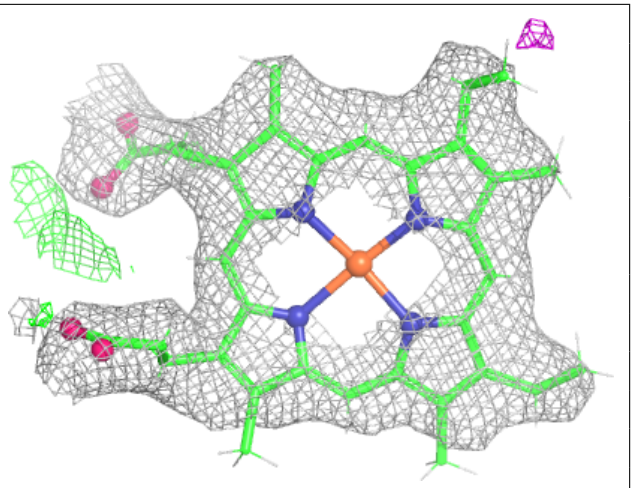


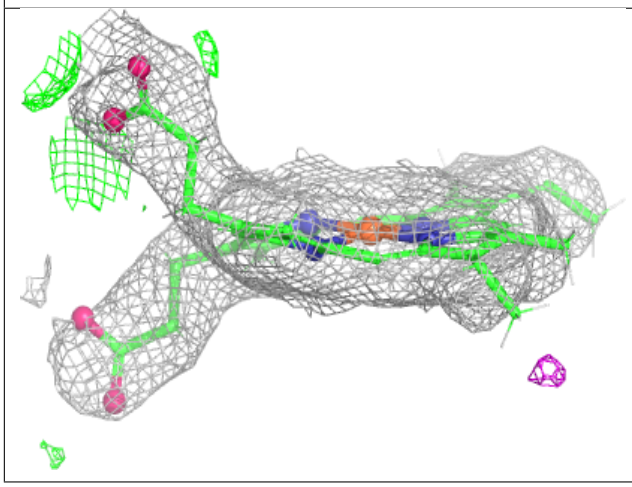


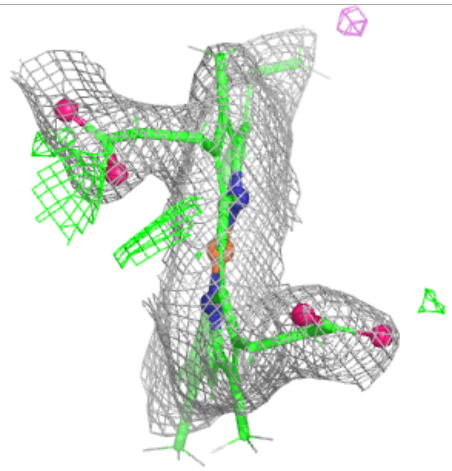


Electron density around HEC e 101:

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

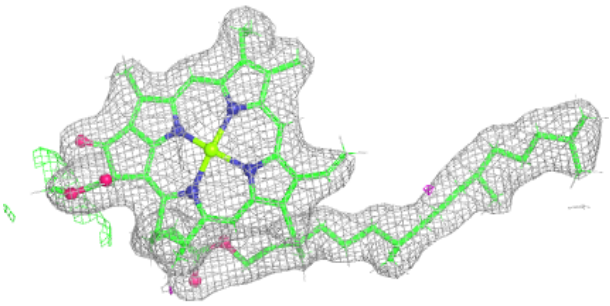


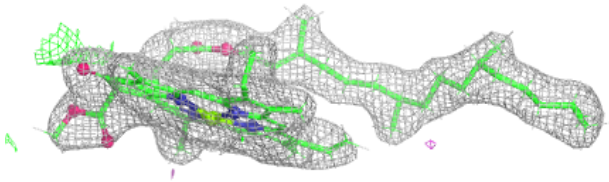


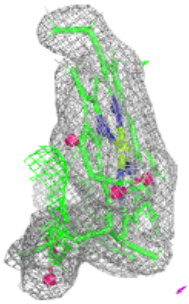


Electron density around CLA C 502:

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

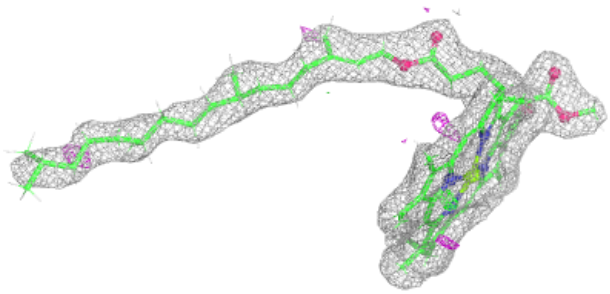


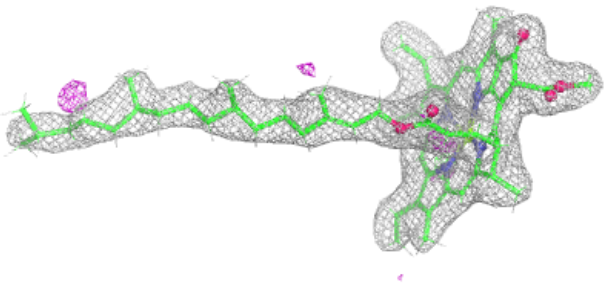


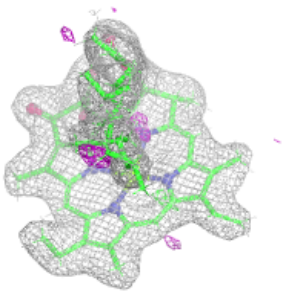


Electron density around CLA B 707:

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

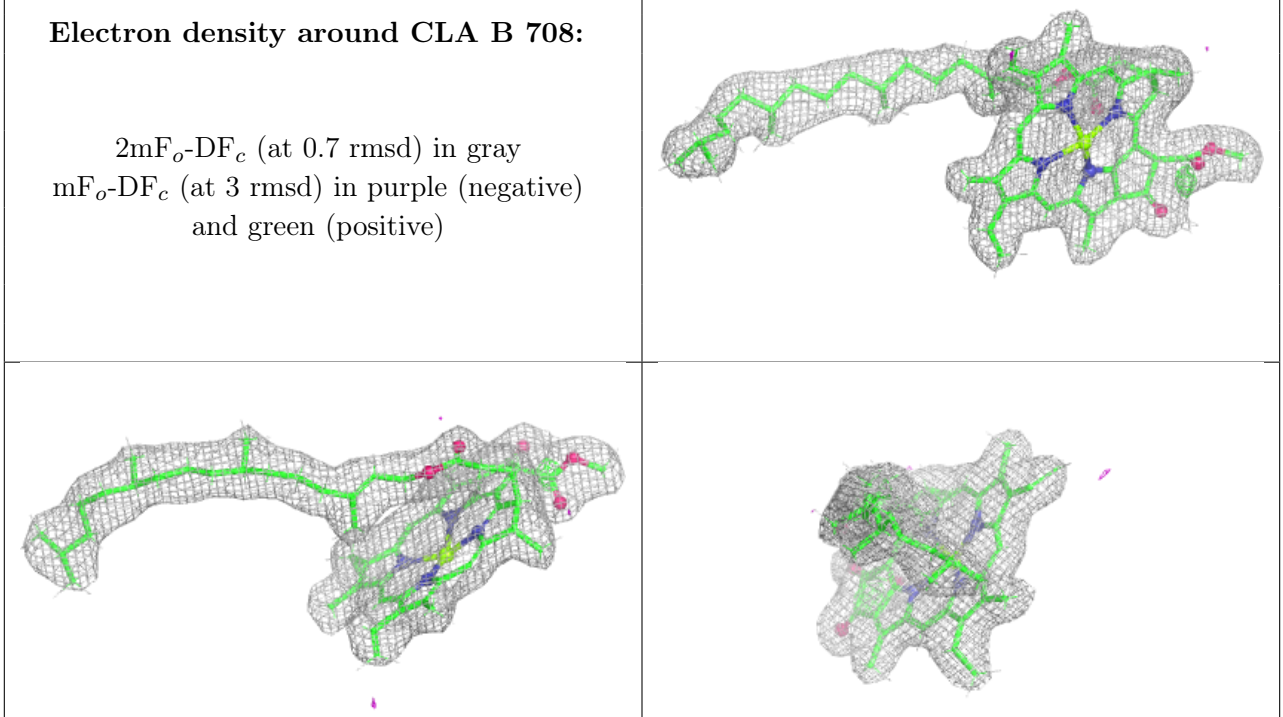






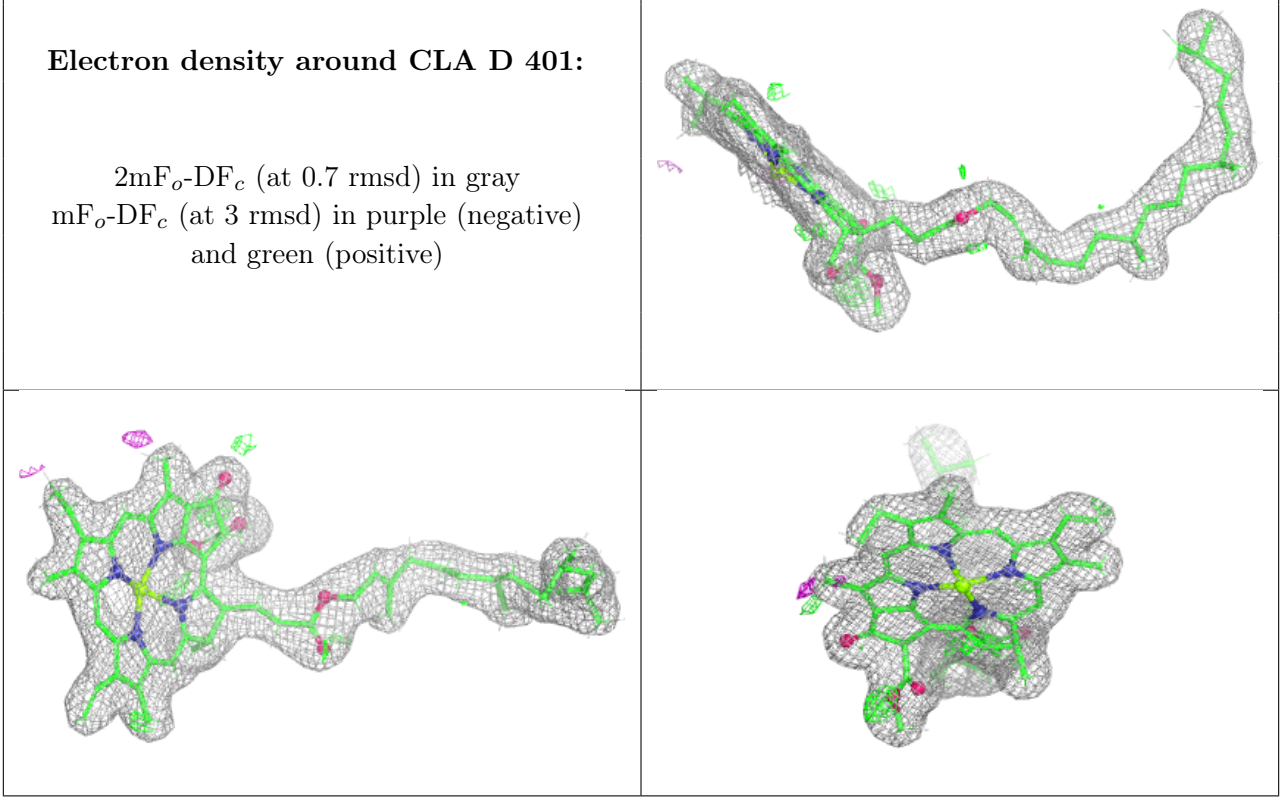
Electron density around CLA B 708:

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



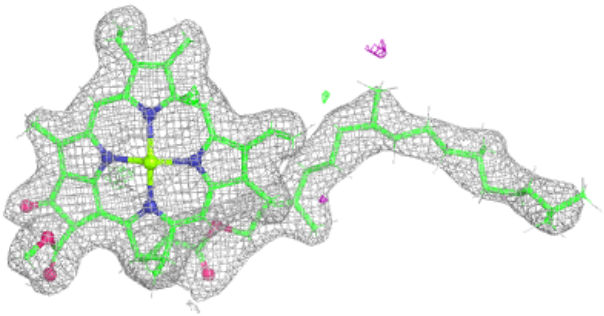
Electron density around CLA D 401:

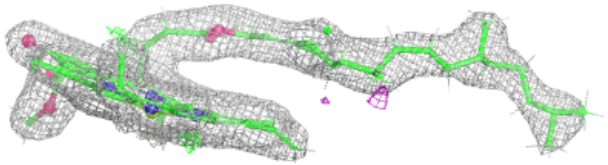
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

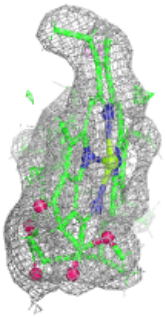


Electron density around CLA B 703:

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

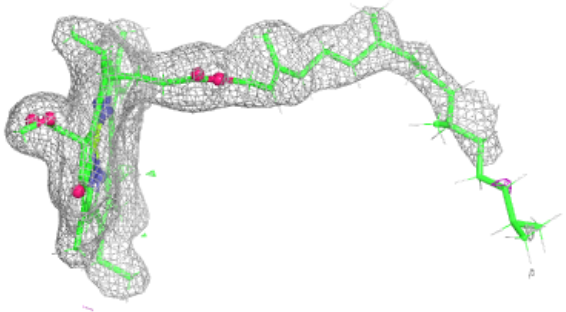


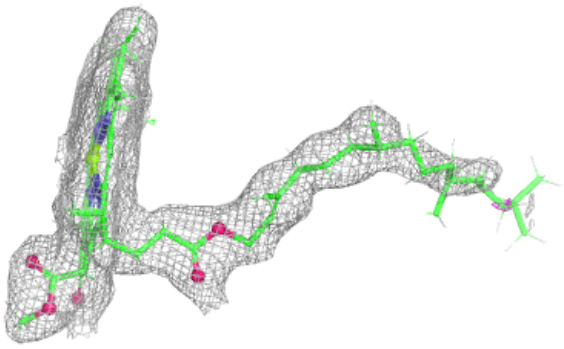


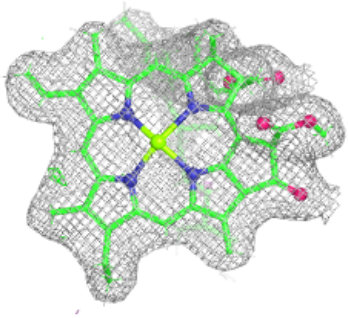


Electron density around CLA D 403:

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

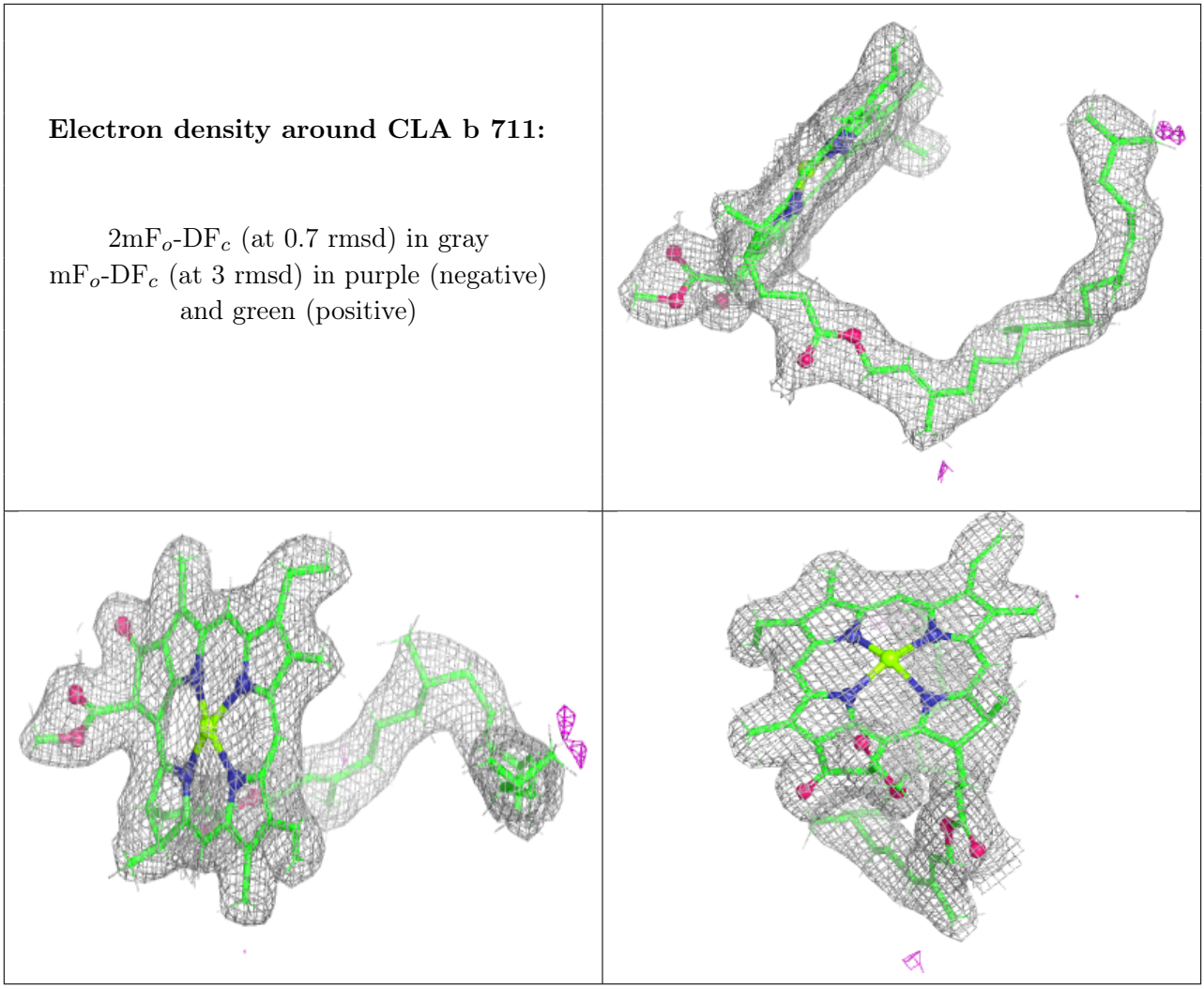






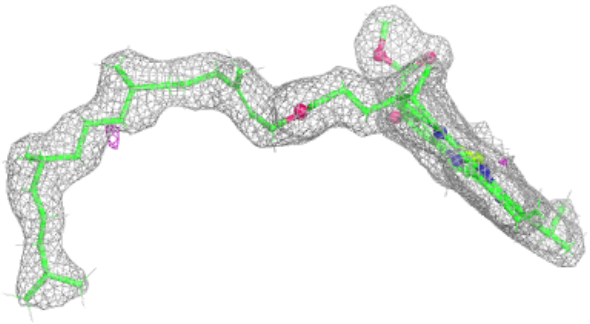
Electron density around CLA b 711:

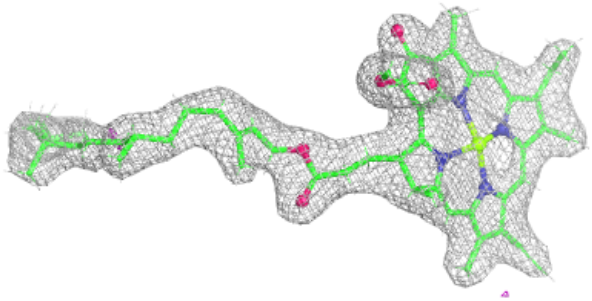
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

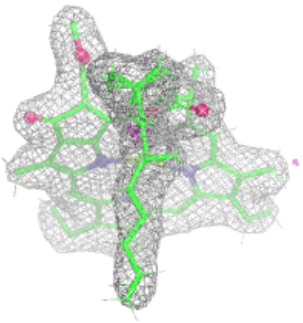


Electron density around CLA d 401:

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

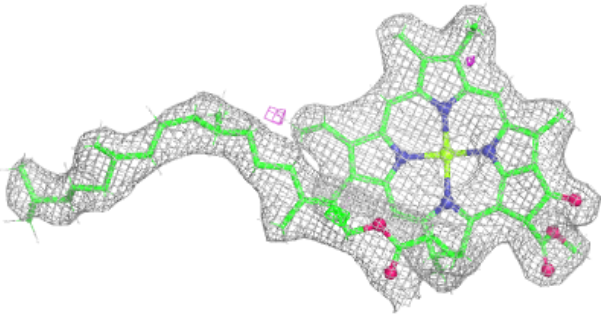


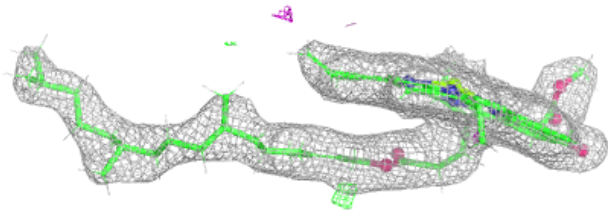


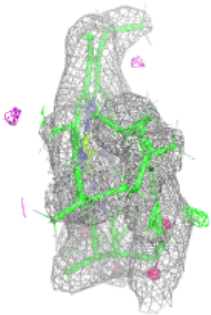


Electron density around CLA b 703:

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

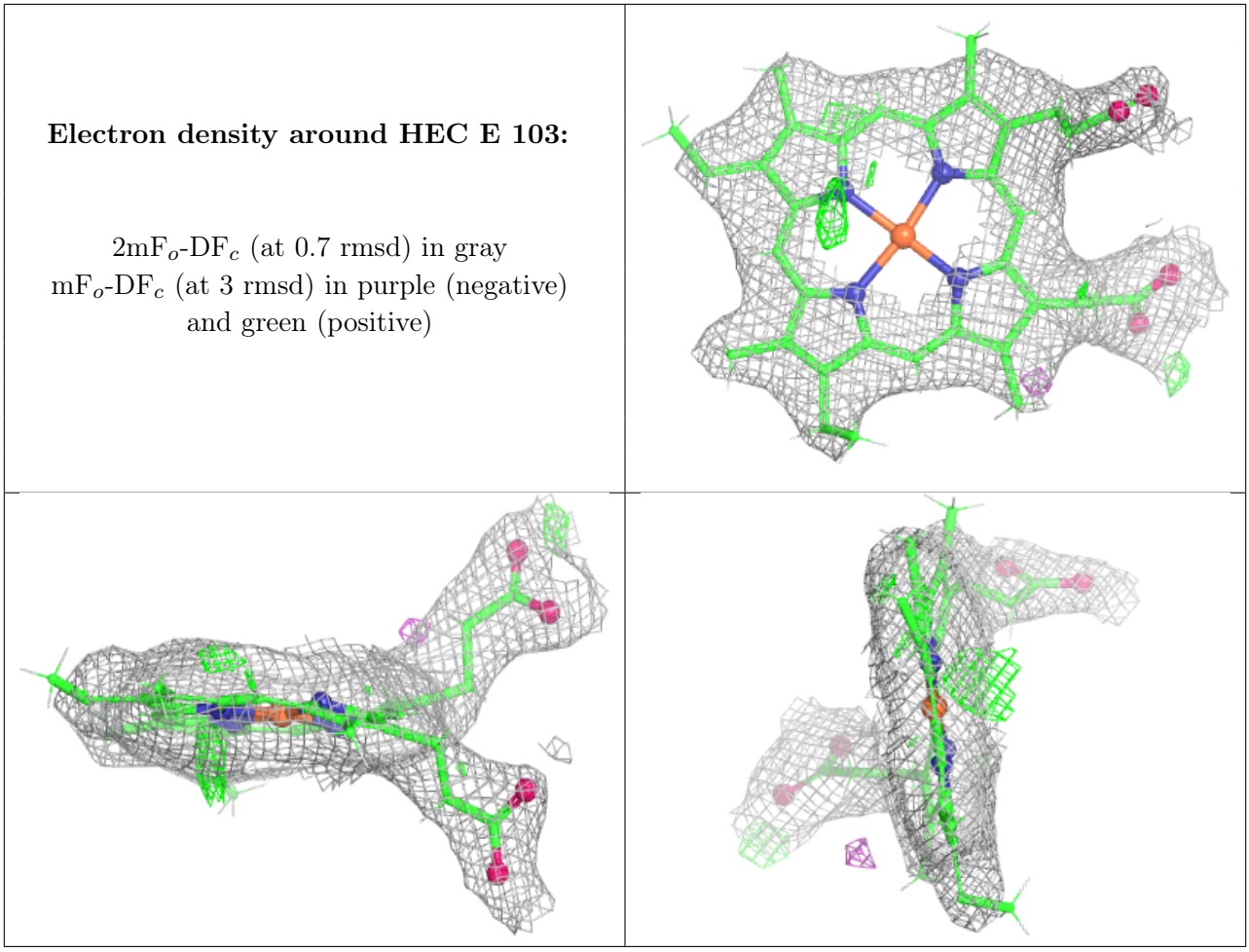






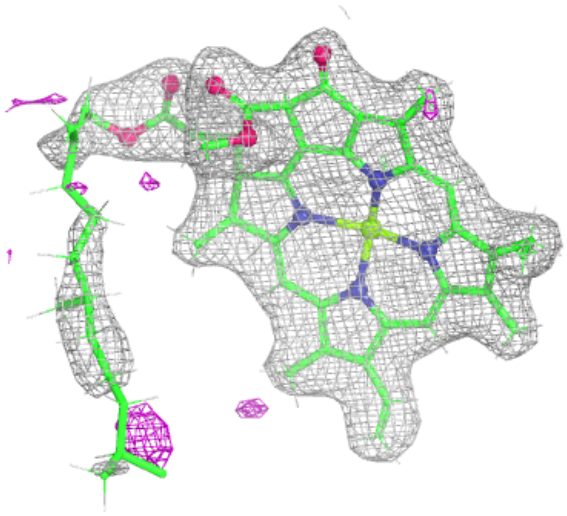
Electron density around HEC E 103:

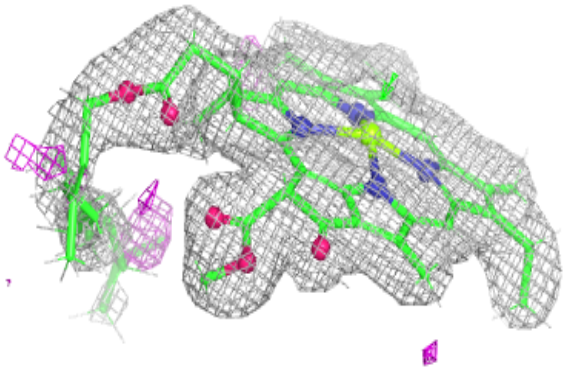
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

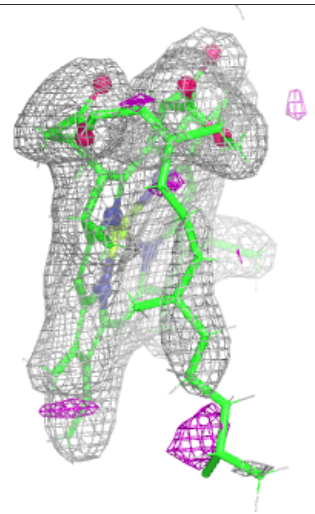


Electron density around CLA B 716:

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

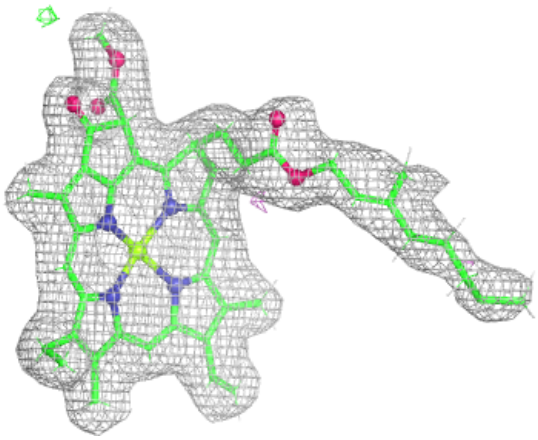


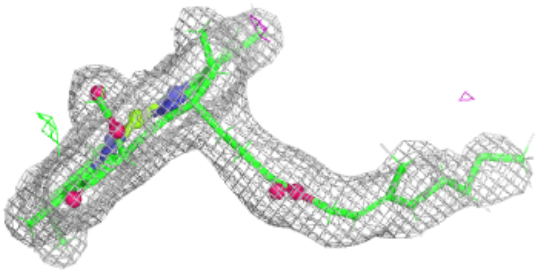


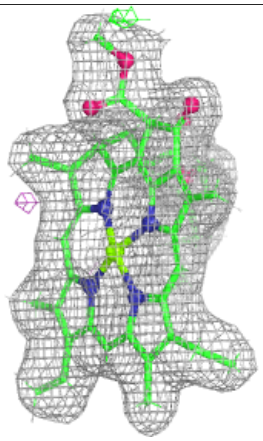


Electron density around CLA A 404:

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

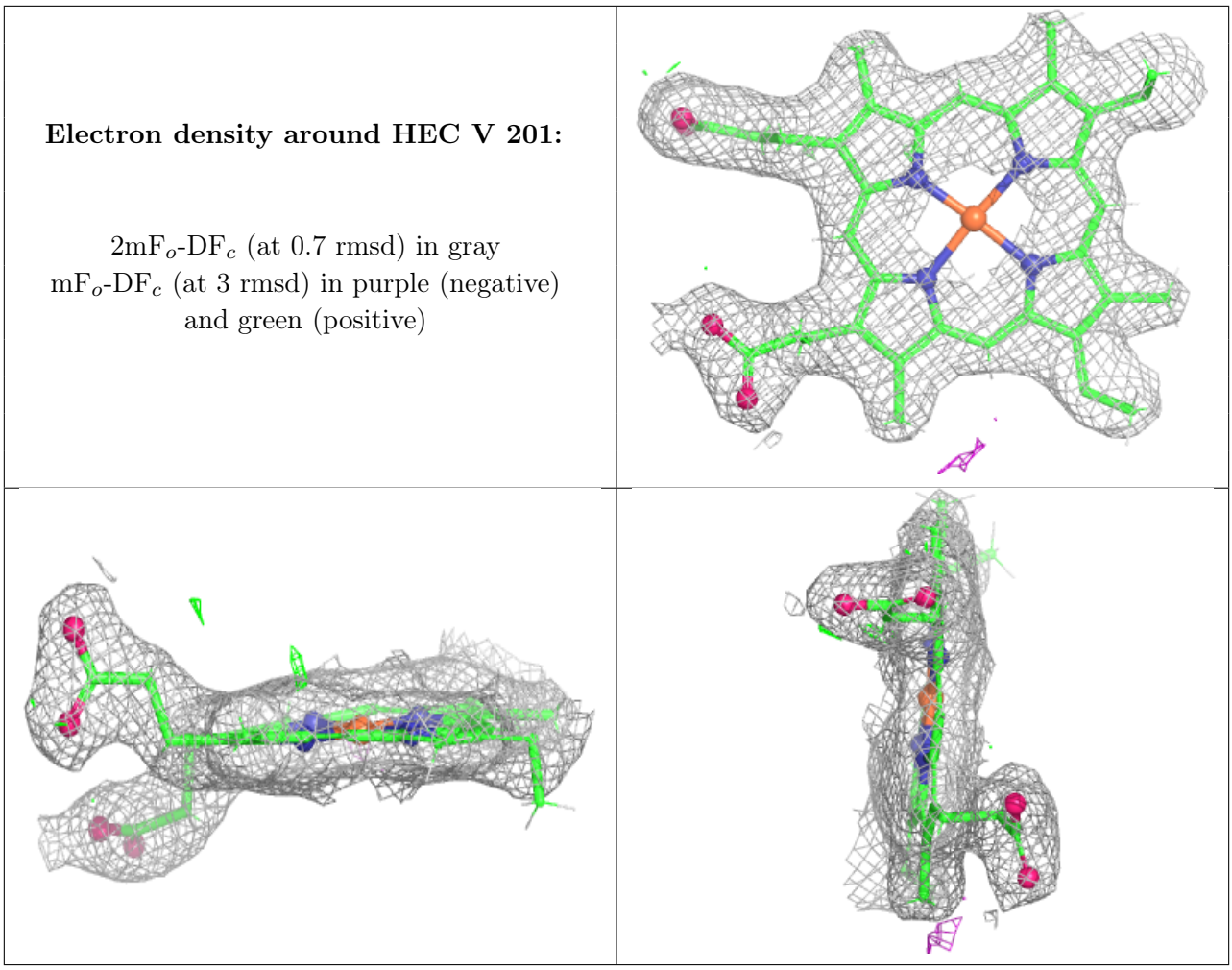






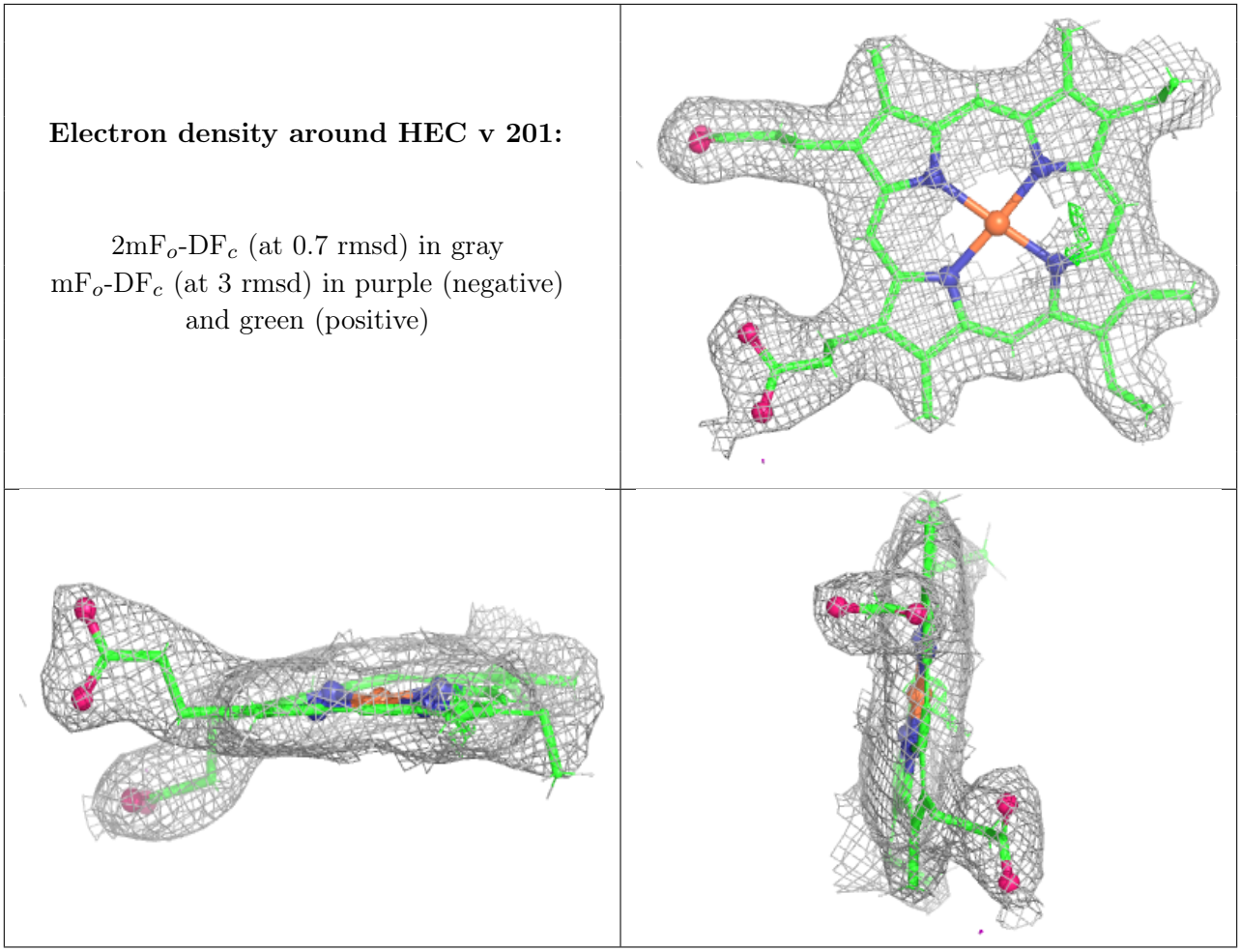
Electron density around HEC V 201:

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



Electron density around HEC v 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.