



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 17, 2026 – 02:52 PM EDT

PDB ID : 9Z33 / pdb_00009z33
Title : RT XFEL structure of dark-stable state of Photosystem II (0F, S1 rich) at 1.97 Angstrom obtained from anomalous data at 9.5 keV
Authors : Bhowmick, A.; Kern, J.; Yano, J.; Yachandra, V.K.; Minnetian, N.M.; Zhang, M.
Deposited on : 2025-11-05
Resolution : 1.97 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

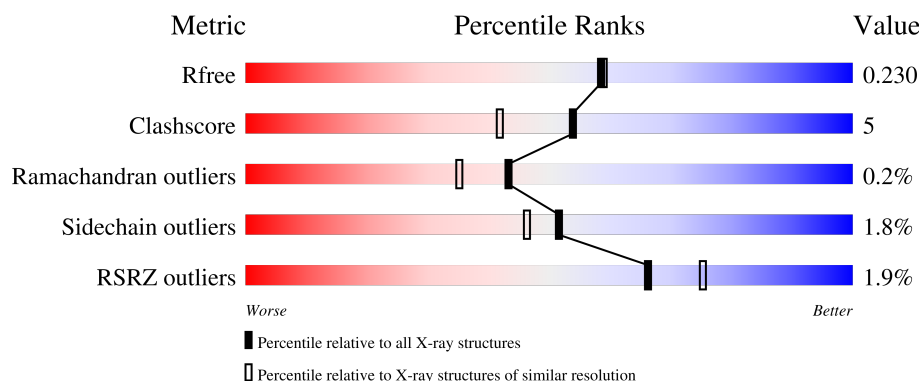
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.97 Å.

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



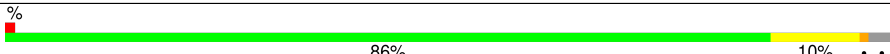
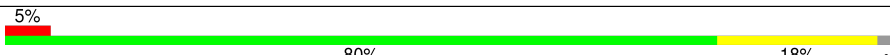
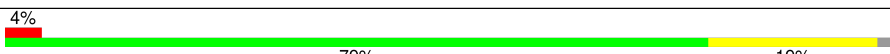
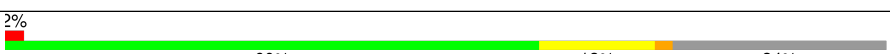
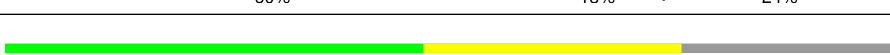
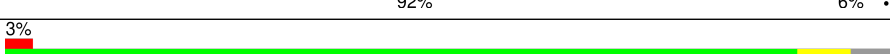
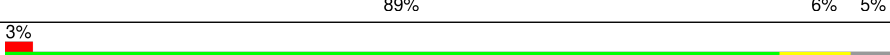
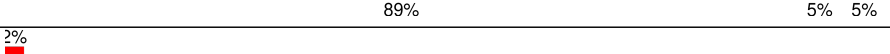
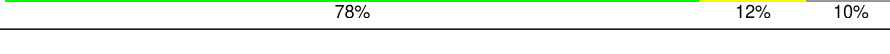
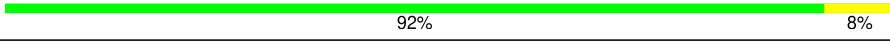
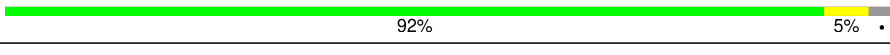
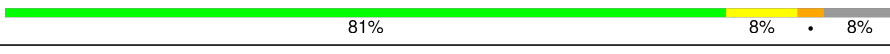
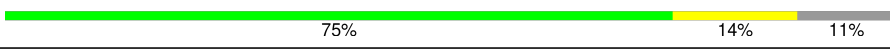
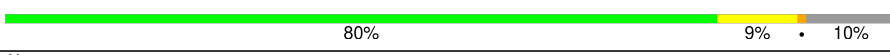
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1506 (1.98-1.98)
Clashscore	190562	1534 (1.98-1.98)
Ramachandran outliers	187476	1518 (1.98-1.98)
Sidechain outliers	187428	1518 (1.98-1.98)
RSRZ outliers	180081	1506 (1.98-1.98)

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

Mol	Chain	Length	Quality of chain
1	A	344	89% 8% .
1	a	344	86% 10% ..
2	B	510	92% 7% .
2	b	510	93% 6% .

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Mol	Chain	Length	Quality of chain
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	T	32	
14	t	32	
15	U	134	

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

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
35	HEC	V	201	X	-	-	-
35	HEC	v	201	X	-	-	-

2 Entry composition

There are 36 unique types of molecules in this entry. The entry contains 52714 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Photosystem II protein D1 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	334	Total	C	N	O	S	0	0	0
			2622	1717	431	459	15			
1	a	334	Total	C	N	O	S	0	0	0
			2619	1714	431	459	15			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	505	Total	C	N	O	S	0	5	0
			4016	2637	670	696	13			
2	b	505	Total	C	N	O	S	0	1	0
			3984	2614	665	692	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	N	O	S	0	1	0
			3426	2249	571	593	13			
3	c	451	Total	C	N	O	S	0	2	0
			3500	2290	587	610	13			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	341	Total	C	N	O	S	0	0	0
			2717	1800	444	461	12			
4	d	341	Total	C	N	O	S	0	1	0
			2723	1804	444	463	12			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	E	82	Total	C	N	O	0	1	0
			666	436	107	123			
5	e	82	Total	C	N	O	0	0	0
			664	434	108	122			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	34	Total	C	N	O	S	0	0	0
			275	187	45	42	1			
6	f	34	Total	C	N	O	S	0	0	0
			275	187	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	N	O	S	0	0	0
			505	335	82	85	3			
7	h	63	Total	C	N	O	S	0	0	0
			493	327	80	83	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	41	CYS	PHE	conflict	UNP Q8DJ43
h	41	CYS	PHE	conflict	UNP Q8DJ43

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	I	36	Total	C	N	O	S	0	0	0
			296	200	46	49	1			
8	i	36	Total	C	N	O	S	0	0	0
			296	200	46	49	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	J	36	Total	C	N	O	S	0	0	0
			257	174	40	42	1			
9	j	36	Total	C	N	O	S	0	0	0
			257	174	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	N	O	0	0	0
			293	204	43	46			
10	k	37	Total	C	N	O	0	0	0
			293	204	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	N	O	S	0	0	0
			304	202	48	53	1			
11	l	36	Total	C	N	O		0	0	0
			296	197	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	N	O	S	0	0	0
			256	171	37	47	1			
12	m	32	Total	C	N	O	S	0	0	0
			251	168	36	46	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	O	244	Total	C	N	O	S	0	1	0
			1870	1168	313	385	4			
13	o	244	Total	C	N	O	S	0	0	0
			1874	1170	317	383	4			

- Molecule 14 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	T	30	Total	C	N	O	S	0	0	0
			258	181	36	39	2			
14	t	30	Total	C	N	O	S	0	0	0
			256	180	36	38	2			

- Molecule 15 is a protein called Photosystem II 12 kDa extrinsic protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	U	97	Total	C	N	O	0	0	0
			774	491	129	154			
15	u	97	Total	C	N	O	0	0	0
			774	491	129	154			

- Molecule 16 is a protein called Cytochrome c-550.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	V	137	Total	C	N	O	S	0	0	0
			1064	675	177	208	4			
16	v	137	Total	C	N	O	S	0	0	0
			1064	675	177	208	4			

- Molecule 17 is a protein called Photosystem II reaction center protein Ycf12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	Y	27	Total	C	N	O	S	0	0	0
			196	128	35	30	3			
17	y	30	Total	C	N	O	S	0	0	0
			218	144	35	36	3			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	X	38	Total	C	N	O	0	0	0
			281	188	45	48			
18	x	39	Total	C	N	O	0	0	0
			286	191	46	49			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	Z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			
19	z	62	Total	C	N	O	S	0	0	0
			477	326	72	77	2			

- Molecule 20 is a protein called Photosystem II protein Y.

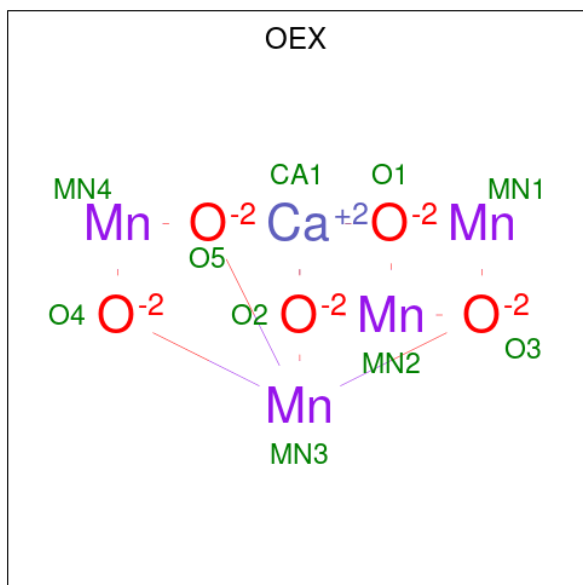
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	R	28	Total	C	N	O	0	0	0
			221	151	38	32			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	r	28	Total	C	N	O	0	0	0
			221	151	38	32			

- Molecule 21 is CA-MN4-O5 CLUSTER (CCD ID: OEX) (formula: CaMn_4O_5) (labeled as "Ligand of Interest" by depositor).



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

- Molecule 22 is FE (II) ION (CCD ID: FE2) (formula: Fe).

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

- Molecule 23 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

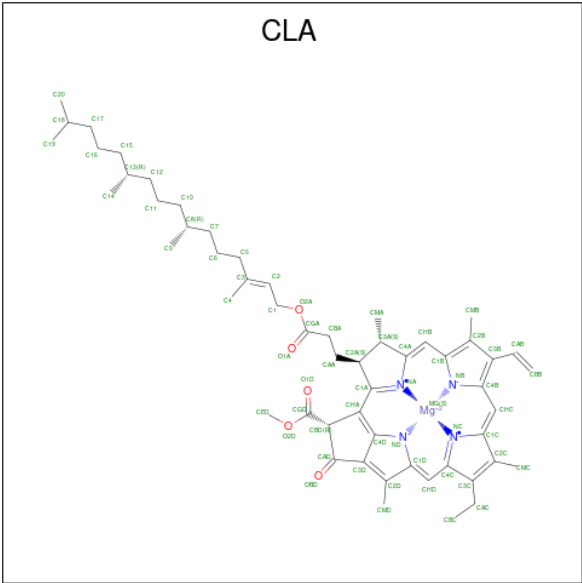
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
23	A	2	Total	Cl	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
23	a	2	Total	Cl	0	0
			2	2		

- Molecule 24 is CHLOROPHYLL A (CCD ID: CLA) (formula: C₅₅H₇₂MgN₄O₅).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
24	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	A	1	Total	C	Mg	N	O	0	0
			54	44	1	4	5		
24	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	B	1	Total 60	C 50	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 59	C 49	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	C	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
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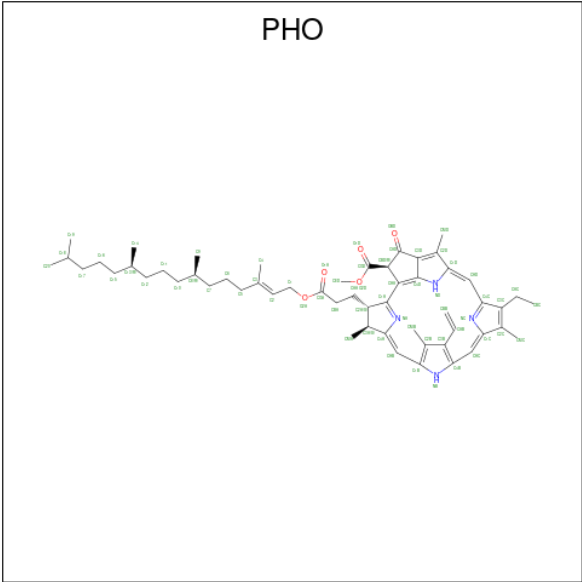
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
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24	D	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	D	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	a	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	a	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	a	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	a	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
24	b	1	Total 65	C 55	Mg 1	N 4	O 5	0	0

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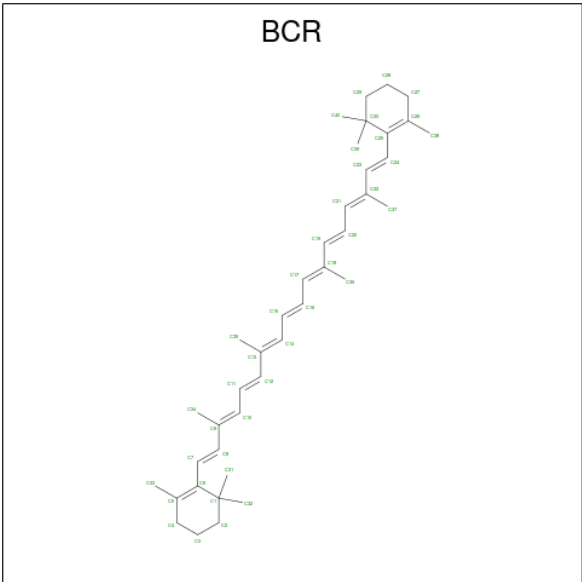
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
24	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	b	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			64	54	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
24	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

- Molecule 25 is PHEOPHYTIN A (CCD ID: PHO) (formula: $C_{55}H_{74}N_4O_5$).



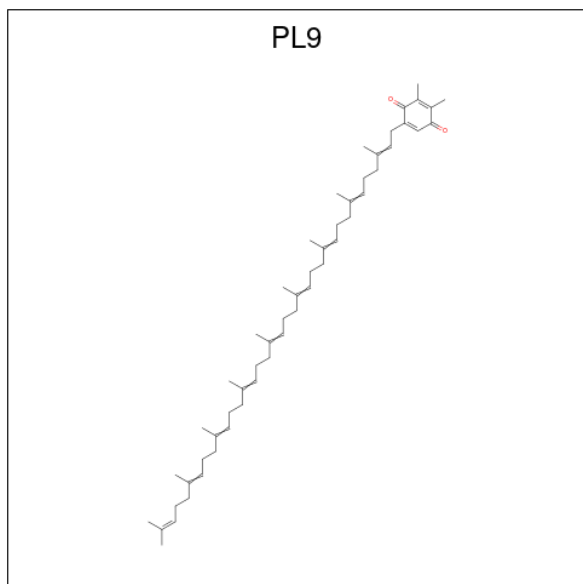
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
25	A	1	Total	C	N	O	0	0
			64	55	4	5		
25	A	1	Total	C	N	O	0	0
			64	55	4	5		
25	a	1	Total	C	N	O	0	0
			64	55	4	5		
25	d	1	Total	C	N	O	0	0
			64	55	4	5		

- Molecule 26 is BETA-CAROTENE (CCD ID: BCR) (formula: C₄₀H₅₆).



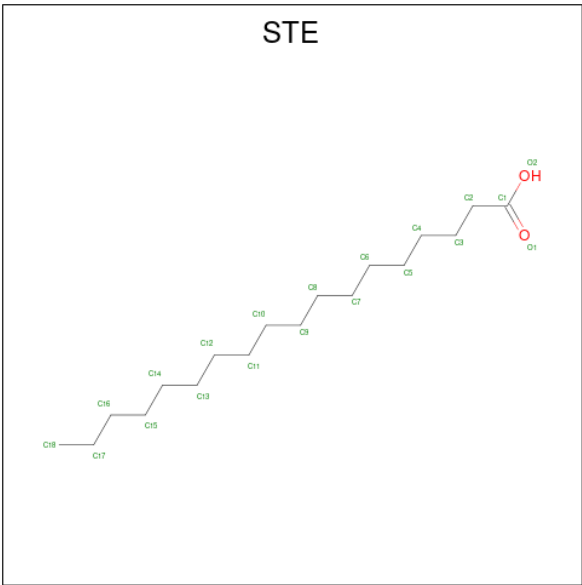
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	A	1	Total C 40 40	0	0
26	B	1	Total C 40 40	0	0
26	B	1	Total C 40 40	0	0
26	B	1	Total C 40 40	0	0
26	C	1	Total C 40 40	0	0
26	C	1	Total C 40 40	0	0
26	C	1	Total C 40 40	0	0
26	D	1	Total C 40 40	0	0
26	H	1	Total C 40 40	0	0
26	K	1	Total C 40 40	0	0
26	T	1	Total C 40 40	0	0
26	a	1	Total C 40 40	0	0
26	b	1	Total C 40 40	0	0
26	b	1	Total C 40 40	0	0
26	b	1	Total C 40 40	0	0
26	c	1	Total C 40 40	0	0
26	c	1	Total C 40 40	0	0
26	d	1	Total C 40 40	0	0
26	h	1	Total C 40 40	0	0
26	k	1	Total C 40 40	0	0
26	k	1	Total C 40 40	0	0
26	t	1	Total C 40 40	0	0

- Molecule 27 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
27	A	1	Total	C	O	0	0
			55	53	2		
27	D	1	Total	C	O	0	0
			55	53	2		
27	a	1	Total	C	O	0	0
			55	53	2		
27	d	1	Total	C	O	0	0
			55	53	2		

- 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	0	0
			9	9		
28	A	1	Total	C	0	0
			8	8		
28	A	1	Total	C	0	0
			17	17		
28	A	1	Total	C	0	0
			11	11		
28	B	1	Total	C	0	0
			17	15		
				O		
			2			
28	B	1	Total	C	0	0
			14	12		
				O		
			2			
28	B	1	Total	C	0	0
			18	16		
				O		
			2			
28	B	1	Total	C	0	0
			12	10		
				O		
			2			
28	B	1	Total	C	0	0
			15	15		
28	C	1	Total	C	0	0
			14	12		
				O		
			2			
28	C	1	Total	C	0	0
			5	5		
28	C	1	Total	C	0	0
			7	7		
28	C	1	Total	C	0	0
			10	10		
28	C	1	Total	C	0	0
			12	10		
				O		
			2			

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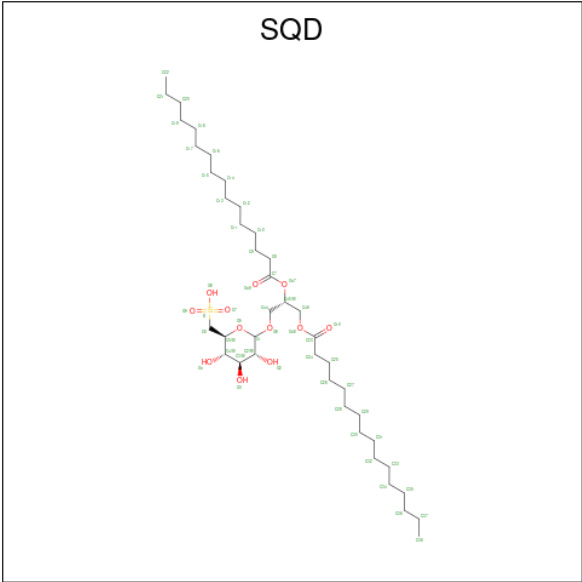
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
28	C	1	Total C 16 16	0	0
28	C	1	Total C 14 14	0	0
28	D	1	Total C O 20 18 2	0	0
28	E	1	Total C O 12 10 2	0	0
28	E	1	Total C 12 12	0	0
28	E	1	Total C O 20 18 2	0	0
28	H	1	Total C 18 18	0	0
28	H	1	Total C 9 9	0	0
28	I	1	Total C O 17 15 2	0	0
28	I	1	Total C O 15 13 2	0	0
28	J	1	Total C O 12 10 2	0	0
28	K	1	Total C 14 14	0	0
28	M	1	Total C O 15 13 2	0	0
28	M	1	Total C 10 10	0	0
28	M	1	Total C 15 15	0	0
28	Z	1	Total C 17 17	0	0
28	a	1	Total C O 12 10 2	0	0
28	b	1	Total C 16 16	0	0
28	b	1	Total C O 20 18 2	0	0
28	b	1	Total C O 16 14 2	0	0
28	b	1	Total C 10 10	0	0

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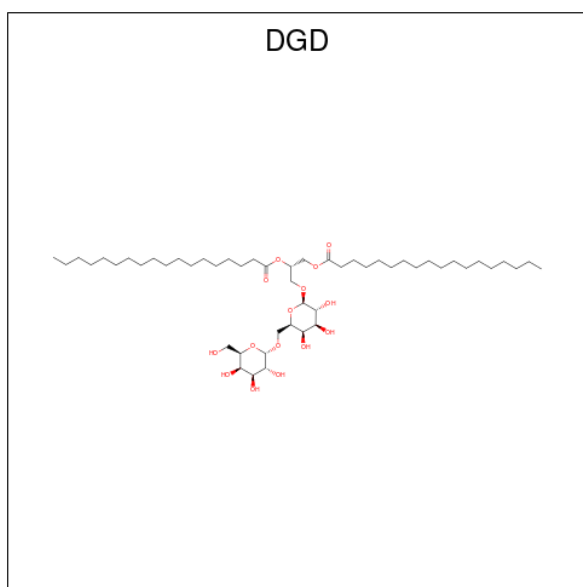
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
28	b	1	Total C 11 11	0	0
28	c	1	Total C 13 13	0	0
28	c	1	Total C 18 18	0	0
28	d	1	Total C O 20 18 2	0	0
28	d	1	Total C O 20 18 2	0	0
28	d	1	Total C O 20 18 2	0	0
28	d	1	Total C 10 10	0	0
28	d	1	Total C O 14 12 2	0	0
28	e	1	Total C 9 9	0	0
28	e	1	Total C 8 8	0	0
28	e	1	Total C 9 9	0	0
28	e	1	Total C O 13 11 2	0	0
28	i	1	Total C O 12 10 2	0	0
28	i	1	Total C 6 6	0	0
28	j	1	Total C O 12 10 2	0	0
28	j	1	Total C 16 16	0	0
28	m	1	Total C O 12 10 2	0	0
28	m	1	Total C 18 18	0	0
28	t	1	Total C 10 10	0	0
28	z	1	Total C 9 9	0	0

- Molecule 29 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: C₄₁H₇₈O₁₂S).



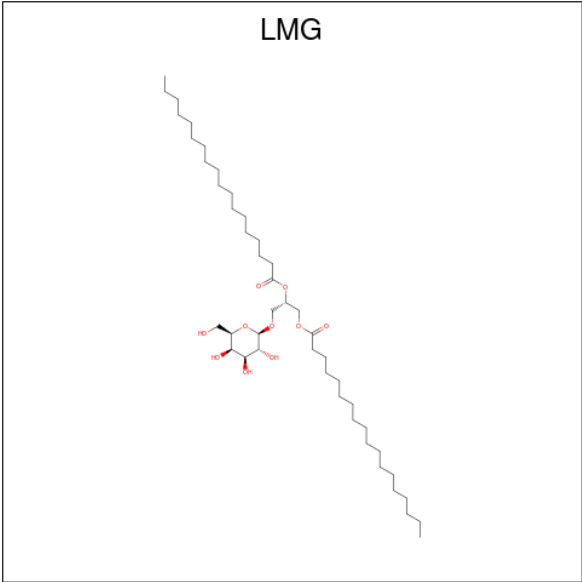
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
29	A	1	Total	C	O	S	0	0
			52	39	12	1		
29	A	1	Total	C	O	S	0	0
			43	30	12	1		
29	B	1	Total	C	O	S	0	0
			54	41	12	1		
29	D	1	Total	C	O	S	0	0
			36	25	10	1		
29	a	1	Total	C	O	S	0	0
			54	41	12	1		
29	a	1	Total	C	O	S	0	0
			54	41	12	1		
29	b	1	Total	C	O	S	0	0
			49	36	12	1		
29	f	1	Total	C	O	S	0	0
			41	28	12	1		

- Molecule 30 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: C₅₁H₉₆O₁₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
30	A	1	Total	C	O	0	0
			66	51	15		
30	C	1	Total	C	O	0	0
			62	47	15		
30	C	1	Total	C	O	0	0
			62	47	15		
30	C	1	Total	C	O	0	0
			62	47	15		
30	H	1	Total	C	O	0	0
			62	47	15		
30	c	1	Total	C	O	0	0
			62	47	15		
30	c	1	Total	C	O	0	0
			62	47	15		
30	c	1	Total	C	O	0	0
			62	47	15		
30	h	1	Total	C	O	0	0
			62	47	15		

- Molecule 31 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$).



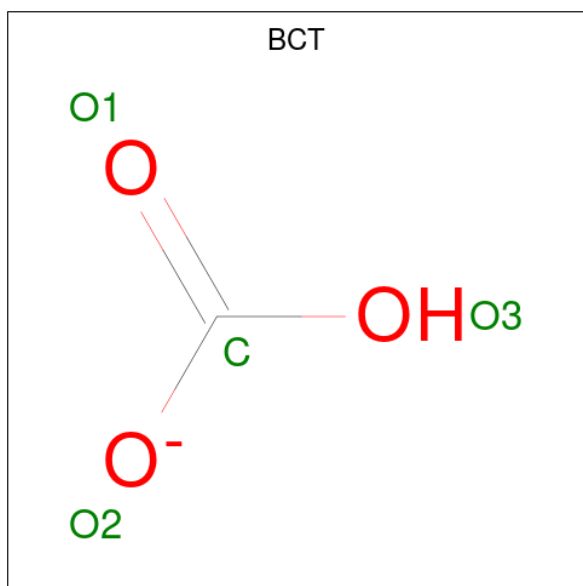
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
31	B	1	Total	C	O	0	0
			45	35	10		
31	B	1	Total	C	O	0	0
			51	41	10		
31	C	1	Total	C	O	0	0
			36	26	10		
31	C	1	Total	C	O	0	0
			48	38	10		
31	C	1	Total	C	O	0	0
			48	38	10		
31	D	1	Total	C	O	0	0
			50	40	10		
31	D	1	Total	C	O	0	0
			51	41	10		
31	a	1	Total	C	O	0	0
			55	45	10		
31	a	1	Total	C	O	0	0
			49	39	10		
31	b	1	Total	C	O	0	0
			51	41	10		
31	b	1	Total	C	O	0	0
			55	45	10		
31	c	1	Total	C	O	0	0
			30	25	5		
31	c	1	Total	C	O	0	0
			46	36	10		
31	c	1	Total	C	O	0	0
			48	38	10		

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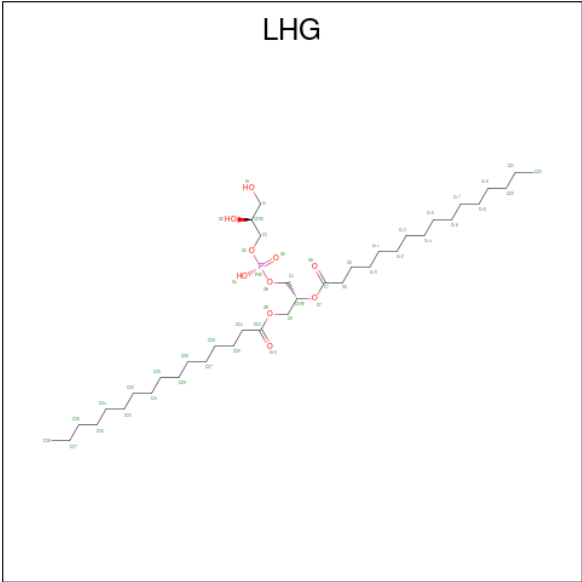
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
31	d	1	Total	C	O	0	0
			44	34	10		

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



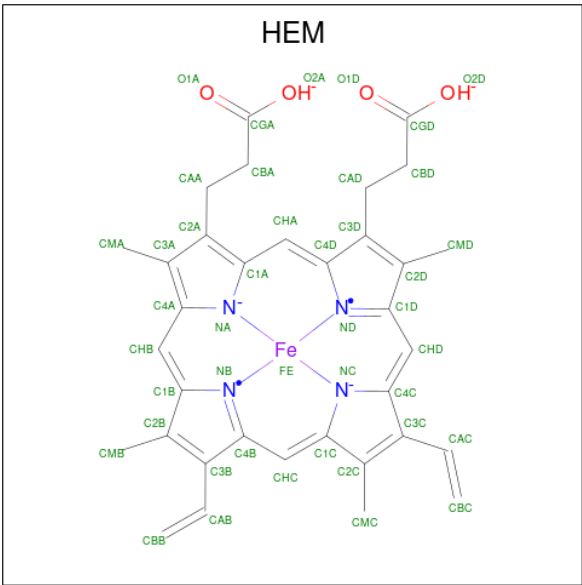
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
32	D	1	Total	C	O	0	0
			4	1	3		
32	d	1	Total	C	O	0	0
			4	1	3		

- Molecule 33 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $\text{C}_{38}\text{H}_{75}\text{O}_{10}\text{P}$).



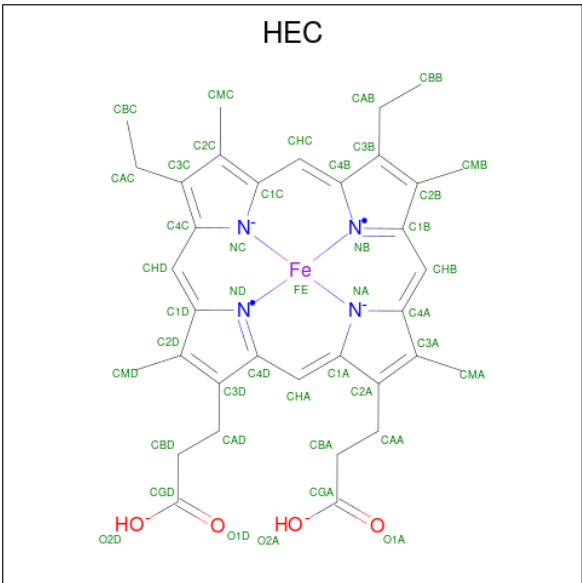
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
33	D	1	Total	C	O	P	0	0
			49	38	10	1		
33	D	1	Total	C	O	P	0	0
			47	36	10	1		
33	D	1	Total	C	O	P	0	0
			49	38	10	1		
33	E	1	Total	C	O	P	0	0
			49	38	10	1		
33	L	1	Total	C	O	P	0	0
			49	38	10	1		
33	a	1	Total	C	O	P	0	0
			39	28	10	1		
33	d	1	Total	C	O	P	0	0
			49	38	10	1		
33	d	1	Total	C	O	P	0	0
			49	38	10	1		
33	e	1	Total	C	O	P	0	0
			42	31	10	1		
33	l	1	Total	C	O	P	0	0
			49	38	10	1		

- Molecule 34 is PROTOPORPHYRIN IX CONTAINING FE (CCD ID: HEM) (formula: $C_{34}H_{32}FeN_4O_4$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
34	F	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
34	e	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

- Molecule 35 is HEME C (CCD ID: HEC) (formula: $C_{34}H_{36}FeN_4O_4$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
35	V	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
35	v	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

- Molecule 36 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
36	A	145	Total O 145 145	0	0
36	B	247	Total O 247 247	0	0
36	C	192	Total O 192 192	0	0
36	D	144	Total O 144 144	0	0
36	E	27	Total O 27 27	0	0
36	F	9	Total O 9 9	0	0
36	H	35	Total O 35 35	0	0
36	I	14	Total O 14 14	0	0
36	J	12	Total O 12 12	0	0
36	K	3	Total O 3 3	0	0
36	L	14	Total O 14 14	0	0
36	M	8	Total O 8 8	0	0
36	O	111	Total O 111 111	0	0
36	T	8	Total O 8 8	0	0
36	U	60	Total O 60 60	0	0
36	V	80	Total O 80 80	0	0
36	Y	3	Total O 3 3	0	0
36	X	10	Total O 10 10	0	0
36	Z	8	Total O 8 8	0	0
36	R	1	Total O 1 1	0	0
36	a	120	Total O 120 120	0	0

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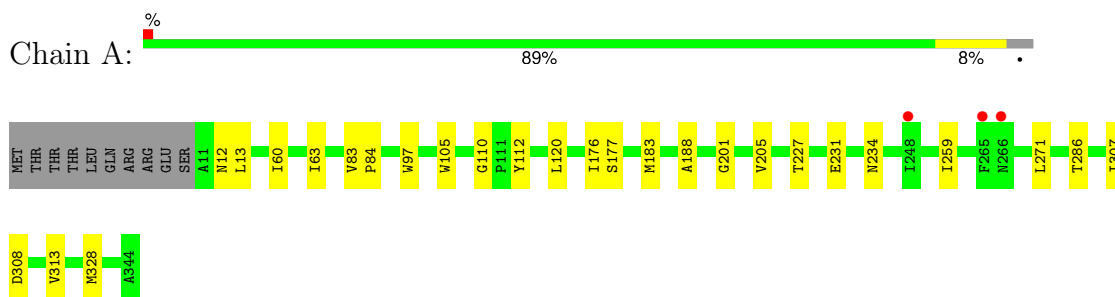
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
36	b	231	Total 231	O 231	0	0
36	c	178	Total 178	O 178	0	0
36	d	145	Total 145	O 145	0	0
36	e	19	Total 19	O 19	0	0
36	f	10	Total 10	O 10	0	0
36	h	20	Total 20	O 20	0	0
36	i	8	Total 8	O 8	0	0
36	j	9	Total 9	O 9	0	0
36	k	5	Total 5	O 5	0	0
36	l	18	Total 18	O 18	0	0
36	m	10	Total 10	O 10	0	0
36	o	131	Total 131	O 131	0	0
36	t	8	Total 8	O 8	0	0
36	u	62	Total 62	O 62	0	0
36	v	56	Total 56	O 56	0	0
36	y	3	Total 3	O 3	0	0
36	x	5	Total 5	O 5	0	0
36	z	7	Total 7	O 7	0	0

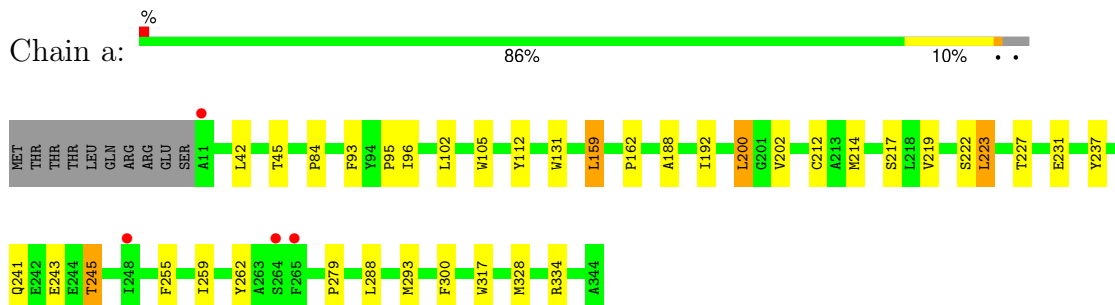
3 Residue-property plots [i](#)

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.

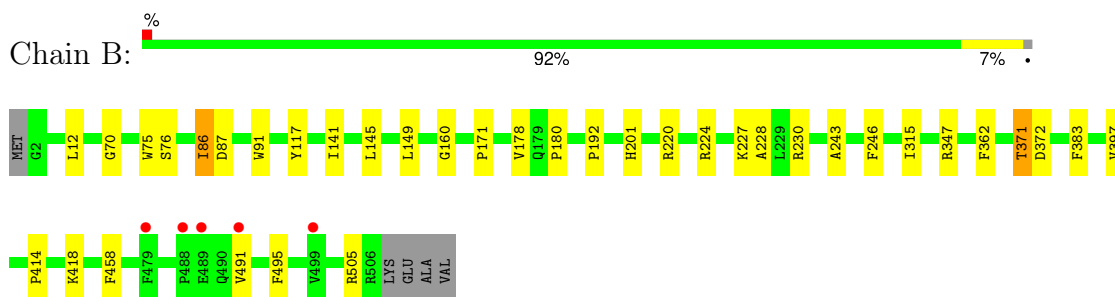
- Molecule 1: Photosystem II protein D1 1



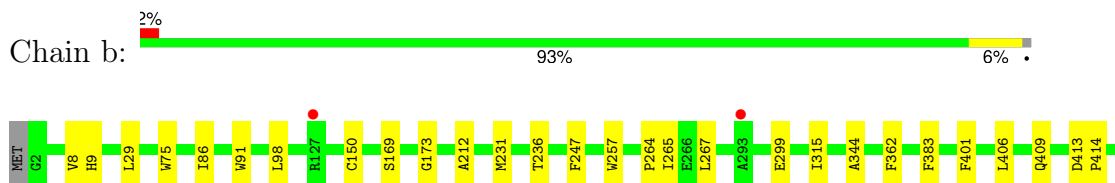
- Molecule 1: Photosystem II protein D1 1

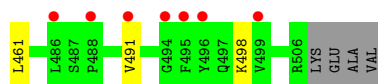


- Molecule 2: Photosystem II CP47 reaction center protein



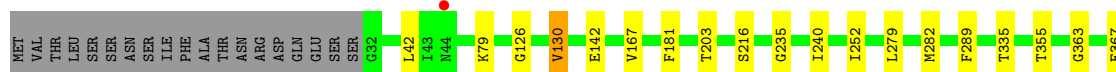
- Molecule 2: Photosystem II CP47 reaction center protein





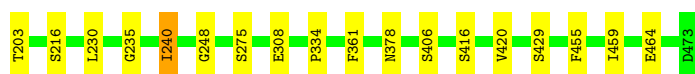
• Molecule 3: Photosystem II CP43 reaction center protein

Chain C: 90% 5% .



• Molecule 3: Photosystem II CP43 reaction center protein

Chain c: 89% 8% .



• Molecule 4: Photosystem II D2 protein

Chain D: 87% 10% .



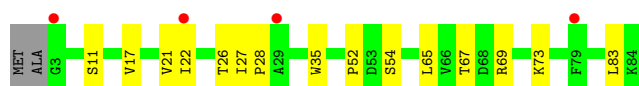
• Molecule 4: Photosystem II D2 protein

Chain d: 86% 10% . .

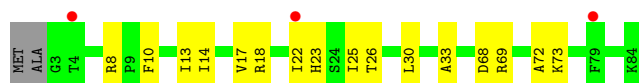
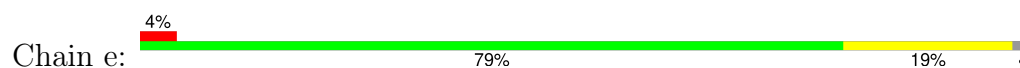


• Molecule 5: Cytochrome b559 subunit alpha

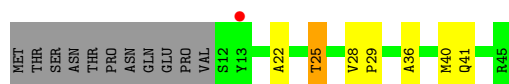
Chain E: 5% 80% 18% .



- Molecule 5: Cytochrome b559 subunit alpha



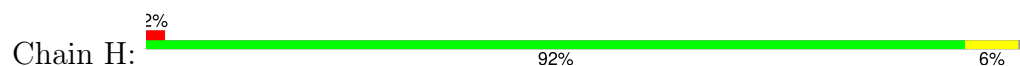
- Molecule 6: Cytochrome b559 subunit beta



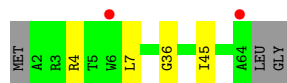
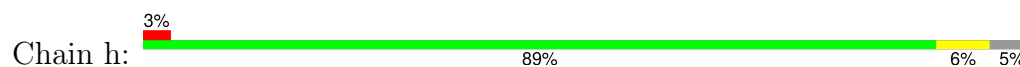
- Molecule 6: Cytochrome b559 subunit beta



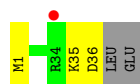
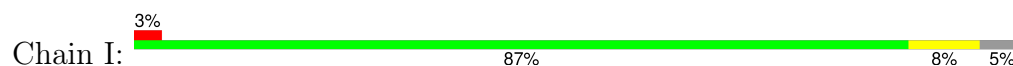
- Molecule 7: Photosystem II reaction center protein H



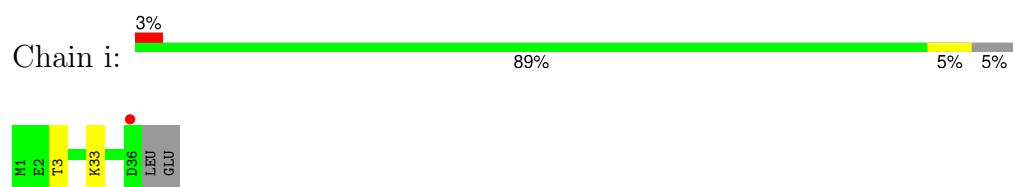
- Molecule 7: Photosystem II reaction center protein H



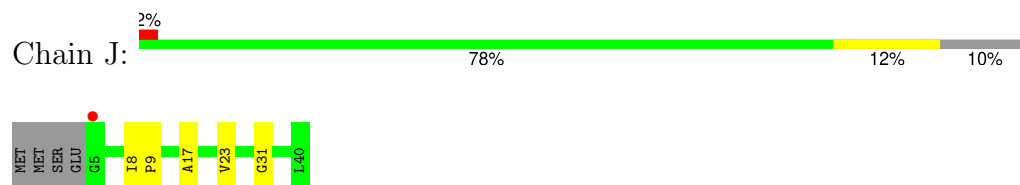
- Molecule 8: Photosystem II reaction center protein I



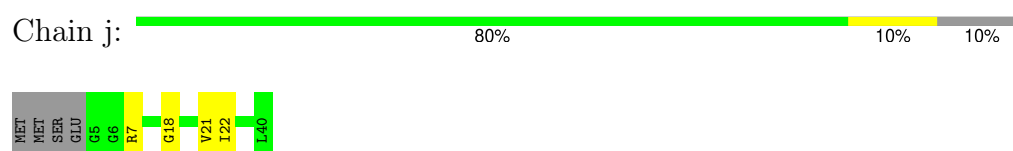
- Molecule 8: Photosystem II reaction center protein I



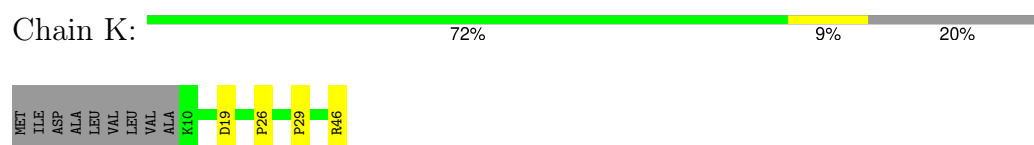
- Molecule 9: Photosystem II reaction center protein J



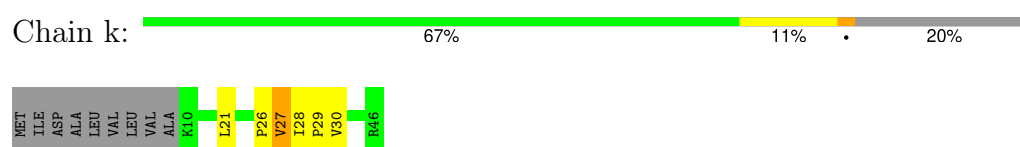
- Molecule 9: Photosystem II reaction center protein J



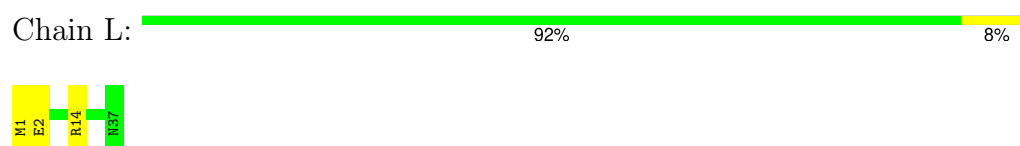
- Molecule 10: Photosystem II reaction center protein K



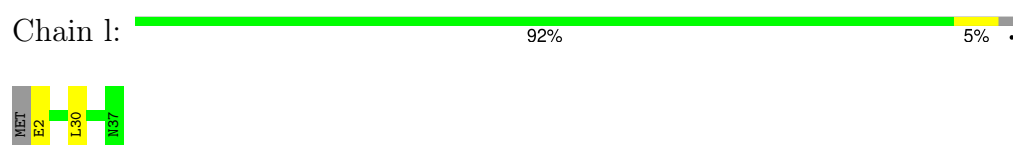
- Molecule 10: Photosystem II reaction center protein K



- Molecule 11: Photosystem II reaction center protein L



- Molecule 11: Photosystem II reaction center protein L



- Molecule 12: Photosystem II reaction center protein M

Chain M:  81% 8% 8%



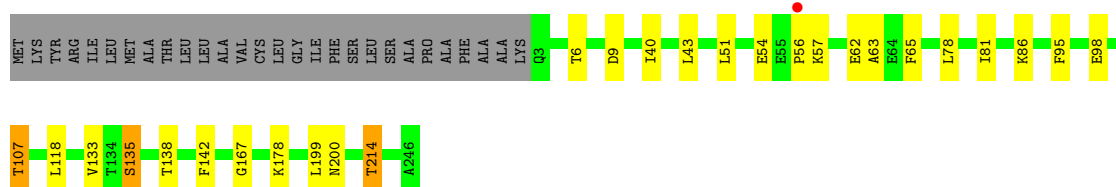
- Molecule 12: Photosystem II reaction center protein M

Chain m:  75% 14% 11%



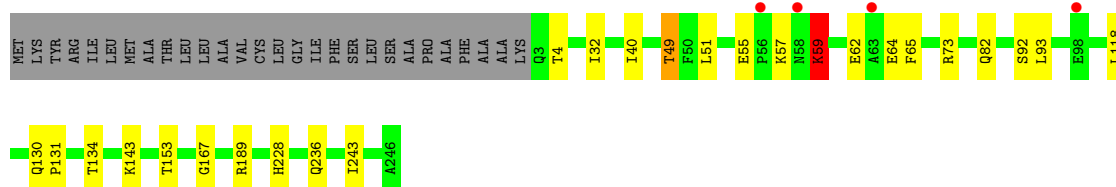
- Molecule 13: Photosystem II manganese-stabilizing polypeptide

Chain O:  80% 9% 10%



- Molecule 13: Photosystem II manganese-stabilizing polypeptide

Chain o:  80% 9% 10%



- Molecule 14: Photosystem II reaction center protein T

Chain T:  3% 78% 12% 6%



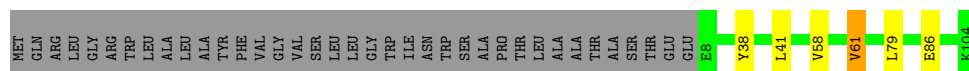
- Molecule 14: Photosystem II reaction center protein T

Chain t:  6% 88% 6% 6%



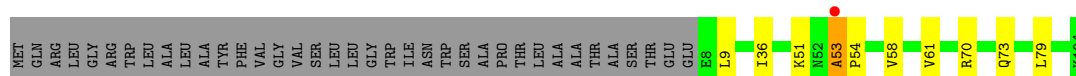
- Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain U:  68% 28%



- Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain u:  65% 7% 28%



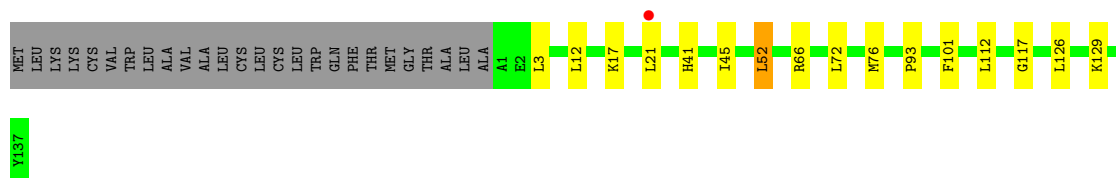
- Molecule 16: Cytochrome c-550

Chain V:  74% 10% 16%



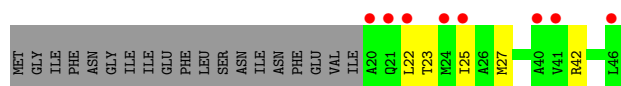
- Molecule 16: Cytochrome c-550

Chain v:  74% 9% 16%

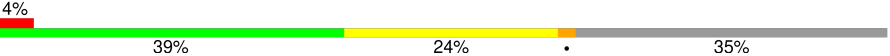


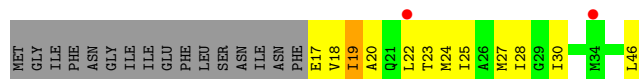
- Molecule 17: Photosystem II reaction center protein Ycf12

Chain Y:  17% 48% 11% 41%



- Molecule 17: Photosystem II reaction center protein Ycf12

Chain y:  4% 39% 24% 35%



- Molecule 18: Photosystem II reaction center X protein

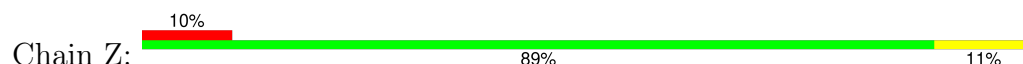
Chain X:  7% 83% 10% 7%



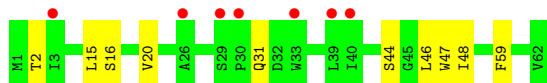
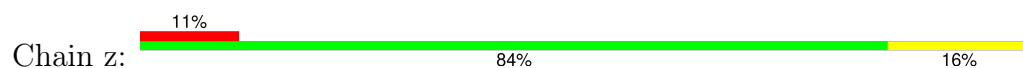
- Molecule 18: Photosystem II reaction center X protein



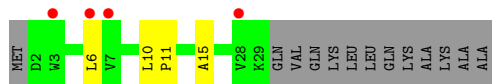
- Molecule 19: Photosystem II reaction center protein Z



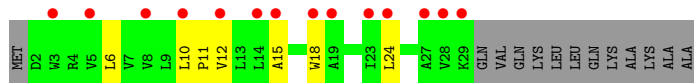
- Molecule 19: Photosystem II reaction center protein Z



- Molecule 20: Photosystem II protein Y



- Molecule 20: Photosystem II protein Y



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	117.48Å 222.57Å 308.96Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	35.14 – 1.97 35.14 – 1.97	Depositor EDS
% Data completeness (in resolution range)	97.5 (35.14-1.97) 82.7 (35.14-1.97)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.26 (at 1.97Å)	Xtriage
Refinement program	PHENIX 2.0_5848	Depositor
R, R_{free}	0.194 , 0.230 0.194 , 0.230	Depositor DCC
R_{free} test set	5025 reflections (0.80%)	wwPDB-VP
Wilson B-factor (Å ²)	25.6	Xtriage
Anisotropy	0.219	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 56.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	52714	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.50% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PHO, FME, LMG, DGD, SQD, FE2, STE, HEM, CLA, BCR, BCT, OEX, LHG, CL, HEC, PL9

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	0.37	0/2707	0.52	0/3692
1	a	0.34	0/2704	0.51	0/3688
2	B	0.32	0/4166	0.47	0/5675
2	b	0.30	0/4127	0.46	0/5623
3	C	0.32	0/3539	0.46	0/4819
3	c	0.29	0/3619	0.45	0/4926
4	D	0.34	0/2812	0.50	0/3832
4	d	0.32	0/2821	0.48	0/3844
5	E	0.24	0/688	0.42	0/940
5	e	0.22	0/683	0.39	0/932
6	F	0.23	0/284	0.37	0/387
6	f	0.22	0/284	0.46	0/387
7	H	0.29	0/517	0.43	0/705
7	h	0.26	0/505	0.42	0/689
8	I	0.27	0/293	0.42	0/396
8	i	0.32	0/293	0.38	0/396
9	J	0.27	0/263	0.42	0/356
9	j	0.22	0/263	0.37	0/356
10	K	0.27	0/303	0.40	0/416
10	k	0.24	0/303	0.36	0/416
11	L	0.35	0/311	0.44	0/422
11	l	0.29	0/303	0.42	0/412
12	M	0.31	0/249	0.49	0/341
12	m	0.29	0/244	0.48	0/334
13	O	0.29	0/1904	0.51	0/2585
13	o	0.29	0/1905	0.51	0/2583
14	T	0.36	0/257	0.49	0/349
14	t	0.28	0/255	0.41	0/346
15	U	0.28	0/785	0.43	0/1064
15	u	0.28	0/785	0.47	0/1064
16	V	0.30	0/1085	0.53	0/1473
16	v	0.25	0/1085	0.40	0/1473

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	Y	0.20	0/197	0.31	0/264
17	y	0.18	0/219	0.33	0/294
18	X	0.23	0/284	0.35	0/384
18	x	0.20	0/289	0.32	0/391
19	Z	0.21	0/490	0.40	0/669
19	z	0.18	0/488	0.36	0/666
20	R	0.19	0/227	0.35	0/313
20	r	0.18	0/227	0.31	0/313
All	All	0.30	0/42763	0.46	0/58215

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
16	V	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	V	63	THR	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2622	0	2519	16	0
1	a	2619	0	2510	27	0
2	B	4016	0	3883	30	0
2	b	3984	0	3842	25	0
3	C	3426	0	3353	14	0
3	c	3500	0	3426	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	2717	0	2621	26	0
4	d	2723	0	2627	29	0
5	E	666	0	651	10	0
5	e	664	0	648	16	0
6	F	275	0	282	5	0
6	f	275	0	282	9	0
7	H	505	0	528	4	0
7	h	493	0	514	3	0
8	I	296	0	311	2	0
8	i	296	0	311	2	0
9	J	257	0	268	4	0
9	j	257	0	268	4	0
10	K	293	0	305	1	0
10	k	293	0	305	4	0
11	L	304	0	316	3	0
11	l	296	0	304	0	0
12	M	256	0	269	4	0
12	m	251	0	267	4	0
13	O	1870	0	1830	16	0
13	o	1874	0	1846	15	0
14	T	258	0	261	4	0
14	t	256	0	256	1	0
15	U	774	0	773	4	0
15	u	774	0	773	6	0
16	V	1064	0	1073	10	0
16	v	1064	0	1073	10	0
17	Y	196	0	217	3	0
17	y	218	0	241	8	0
18	X	281	0	312	3	0
18	x	286	0	314	1	0
19	Z	479	0	516	5	0
19	z	477	0	509	7	0
20	R	221	0	238	2	0
20	r	221	0	238	5	0
21	A	10	0	0	0	0
21	a	10	0	0	0	0
22	A	1	0	0	0	0
22	a	1	0	0	0	0
23	A	2	0	0	0	0
23	a	2	0	0	0	0
24	A	184	0	192	7	0
24	B	1035	0	1139	25	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	C	839	0	922	14	0
24	D	195	0	216	6	0
24	a	260	0	288	7	0
24	b	1035	0	1139	26	0
24	c	839	0	919	30	0
24	d	130	0	144	3	0
25	A	128	0	148	1	0
25	a	64	0	74	0	0
25	d	64	0	74	2	0
26	A	40	0	56	0	0
26	B	120	0	168	3	0
26	C	120	0	168	3	0
26	D	40	0	56	1	0
26	H	40	0	56	2	0
26	K	40	0	56	1	0
26	T	40	0	56	2	0
26	a	40	0	56	1	0
26	b	120	0	168	2	0
26	c	80	0	112	3	0
26	d	40	0	56	1	0
26	h	40	0	56	2	0
26	k	80	0	112	3	0
26	t	40	0	56	3	0
27	A	55	0	80	5	0
27	D	55	0	80	0	0
27	a	55	0	80	6	0
27	d	55	0	80	2	0
28	A	45	0	83	4	0
28	B	76	0	116	3	0
28	C	78	0	126	3	0
28	D	20	0	35	1	0
28	E	44	0	74	2	0
28	H	27	0	52	3	0
28	I	32	0	48	2	0
28	J	12	0	16	0	0
28	K	14	0	27	1	0
28	M	40	0	67	1	0
28	Z	17	0	33	1	0
28	a	12	0	16	0	0
28	b	73	0	127	5	0
28	c	31	0	57	3	0
28	d	84	0	144	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	e	39	0	67	1	0
28	i	18	0	24	4	0
28	j	28	0	47	1	0
28	m	30	0	51	0	0
28	t	10	0	16	0	0
28	z	9	0	14	1	0
29	A	95	0	124	3	0
29	B	54	0	78	2	0
29	D	36	0	46	0	0
29	a	108	0	156	4	0
29	b	49	0	65	2	0
29	f	41	0	49	3	0
30	A	66	0	96	4	0
30	C	186	0	246	4	0
30	H	62	0	82	1	0
30	c	186	0	246	4	0
30	h	62	0	82	0	0
31	B	96	0	132	5	0
31	C	132	0	172	4	0
31	D	101	0	142	10	0
31	a	104	0	154	6	0
31	b	106	0	158	4	0
31	c	124	0	172	5	0
31	d	44	0	58	0	0
32	D	4	0	1	0	0
32	d	4	0	1	0	0
33	D	145	0	215	11	0
33	E	49	0	74	4	0
33	L	49	0	74	1	0
33	a	39	0	51	2	0
33	d	98	0	148	2	0
33	e	42	0	57	1	0
33	l	49	0	74	2	0
34	F	43	0	30	2	0
34	e	43	0	30	4	0
35	V	43	0	30	0	0
35	v	43	0	30	1	0
36	A	145	0	0	3	0
36	B	247	0	0	4	0
36	C	192	0	0	3	0
36	D	144	0	0	5	0
36	E	27	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	F	9	0	0	0	0
36	H	35	0	0	0	0
36	I	14	0	0	0	0
36	J	12	0	0	2	0
36	K	3	0	0	0	0
36	L	14	0	0	0	0
36	M	8	0	0	0	0
36	O	111	0	0	4	0
36	R	1	0	0	0	0
36	T	8	0	0	0	0
36	U	60	0	0	1	0
36	V	80	0	0	5	0
36	X	10	0	0	0	0
36	Y	3	0	0	1	0
36	Z	8	0	0	1	0
36	a	120	0	0	1	0
36	b	231	0	0	8	0
36	c	178	0	0	8	0
36	d	145	0	0	1	0
36	e	19	0	0	0	0
36	f	10	0	0	1	0
36	h	20	0	0	0	0
36	i	8	0	0	2	0
36	j	9	0	0	0	0
36	k	5	0	0	0	0
36	l	18	0	0	0	0
36	m	10	0	0	0	0
36	o	131	0	0	2	0
36	t	8	0	0	0	0
36	u	62	0	0	0	0
36	v	56	0	0	0	0
36	x	5	0	0	0	0
36	y	3	0	0	0	0
36	z	7	0	0	2	0
All	All	52714	0	52200	500	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

The worst 5 of 500 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:b:615:CLA:H72	24:b:616:CLA:HBB1	1.53	0.90
24:C:513:CLA:H202	28:C:528:STE:H172	1.62	0.82
28:A:617:STE:H162	28:A:618:STE:H122	1.61	0.82
31:c:518:LMG:H122	31:c:518:LMG:H302	1.64	0.79
13:O:200:ASN:HD22	13:O:214:THR:HG22	1.52	0.75

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	332/344 (96%)	328 (99%)	3 (1%)	1 (0%)	36	27
1	a	332/344 (96%)	327 (98%)	4 (1%)	1 (0%)	36	27
2	B	508/510 (100%)	500 (98%)	8 (2%)	0	100	100
2	b	504/510 (99%)	494 (98%)	10 (2%)	0	100	100
3	C	441/461 (96%)	432 (98%)	8 (2%)	1 (0%)	43	35
3	c	451/461 (98%)	441 (98%)	9 (2%)	1 (0%)	43	35
4	D	339/352 (96%)	332 (98%)	7 (2%)	0	100	100
4	d	340/352 (97%)	333 (98%)	7 (2%)	0	100	100
5	E	81/84 (96%)	80 (99%)	1 (1%)	0	100	100
5	e	80/84 (95%)	80 (100%)	0	0	100	100
6	F	32/45 (71%)	32 (100%)	0	0	100	100
6	f	32/45 (71%)	32 (100%)	0	0	100	100
7	H	63/66 (96%)	60 (95%)	3 (5%)	0	100	100
7	h	61/66 (92%)	58 (95%)	3 (5%)	0	100	100
8	I	34/38 (90%)	32 (94%)	2 (6%)	0	100	100
8	i	34/38 (90%)	32 (94%)	2 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	J	34/40 (85%)	33 (97%)	1 (3%)	0	100	100
9	j	34/40 (85%)	32 (94%)	2 (6%)	0	100	100
10	K	35/46 (76%)	35 (100%)	0	0	100	100
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%)	29 (97%)	1 (3%)	0	100	100
13	O	243/272 (89%)	233 (96%)	7 (3%)	3 (1%)	10	3
13	o	242/272 (89%)	234 (97%)	6 (2%)	2 (1%)	16	7
14	T	28/32 (88%)	28 (100%)	0	0	100	100
14	t	28/32 (88%)	27 (96%)	0	1 (4%)	2	0
15	U	95/134 (71%)	92 (97%)	3 (3%)	0	100	100
15	u	95/134 (71%)	91 (96%)	3 (3%)	1 (1%)	11	4
16	V	135/163 (83%)	130 (96%)	4 (3%)	1 (1%)	18	9
16	v	135/163 (83%)	129 (96%)	6 (4%)	0	100	100
17	Y	25/46 (54%)	25 (100%)	0	0	100	100
17	y	28/46 (61%)	27 (96%)	1 (4%)	0	100	100
18	X	36/41 (88%)	35 (97%)	1 (3%)	0	100	100
18	x	37/41 (90%)	37 (100%)	0	0	100	100
19	Z	60/62 (97%)	58 (97%)	2 (3%)	0	100	100
19	z	60/62 (97%)	55 (92%)	4 (7%)	1 (2%)	7	1
20	R	26/41 (63%)	26 (100%)	0	0	100	100
20	r	26/41 (63%)	24 (92%)	2 (8%)	0	100	100
All	All	5231/5700 (92%)	5108 (98%)	110 (2%)	13 (0%)	43	35

5 of 13 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
16	V	64	PRO
3	C	416	SER
3	c	416	SER
19	z	2	THR
13	O	57	LYS

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	270/280 (96%)	267 (99%)	3 (1%)	65	61
1	a	269/280 (96%)	261 (97%)	8 (3%)	36	27
2	B	408/407 (100%)	403 (99%)	5 (1%)	63	58
2	b	403/407 (99%)	398 (99%)	5 (1%)	63	58
3	C	345/362 (95%)	339 (98%)	6 (2%)	53	48
3	c	354/362 (98%)	349 (99%)	5 (1%)	59	54
4	D	276/283 (98%)	274 (99%)	2 (1%)	76	73
4	d	277/283 (98%)	270 (98%)	7 (2%)	42	33
5	E	72/73 (99%)	70 (97%)	2 (3%)	38	29
5	e	71/73 (97%)	71 (100%)	0	100	100
6	F	28/39 (72%)	27 (96%)	1 (4%)	31	20
6	f	28/39 (72%)	28 (100%)	0	100	100
7	H	54/55 (98%)	54 (100%)	0	100	100
7	h	53/55 (96%)	52 (98%)	1 (2%)	50	44
8	I	32/34 (94%)	30 (94%)	2 (6%)	16	6
8	i	32/34 (94%)	32 (100%)	0	100	100
9	J	24/28 (86%)	24 (100%)	0	100	100
9	j	24/28 (86%)	24 (100%)	0	100	100
10	K	30/37 (81%)	28 (93%)	2 (7%)	15	5
10	k	30/37 (81%)	29 (97%)	1 (3%)	33	23
11	L	35/35 (100%)	35 (100%)	0	100	100
11	l	34/35 (97%)	32 (94%)	2 (6%)	18	8
12	M	28/32 (88%)	26 (93%)	2 (7%)	13	5
12	m	28/32 (88%)	27 (96%)	1 (4%)	31	20
13	O	206/228 (90%)	201 (98%)	5 (2%)	43	35
13	o	207/228 (91%)	201 (97%)	6 (3%)	37	28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	T	26/28 (93%)	25 (96%)	1 (4%)	29	19
14	t	25/28 (89%)	25 (100%)	0	100	100
15	U	84/112 (75%)	83 (99%)	1 (1%)	63	58
15	u	84/112 (75%)	83 (99%)	1 (1%)	63	58
16	V	117/138 (85%)	115 (98%)	2 (2%)	53	48
16	v	117/138 (85%)	116 (99%)	1 (1%)	70	67
17	Y	19/37 (51%)	19 (100%)	0	100	100
17	y	22/37 (60%)	21 (96%)	1 (4%)	24	13
18	X	31/34 (91%)	31 (100%)	0	100	100
18	x	31/34 (91%)	30 (97%)	1 (3%)	34	24
19	Z	52/52 (100%)	51 (98%)	1 (2%)	50	44
19	z	51/52 (98%)	50 (98%)	1 (2%)	48	42
20	R	22/33 (67%)	21 (96%)	1 (4%)	24	13
20	r	22/33 (67%)	21 (96%)	1 (4%)	24	13
All	All	4321/4654 (93%)	4243 (98%)	78 (2%)	51	46

5 of 78 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	d	259	ILE
13	o	134	THR
4	d	293	LEU
12	m	13	LEU
18	x	2	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 49 such sidechains are listed below:

Mol	Chain	Res	Type
2	b	394	GLN
10	k	40	GLN
2	b	409	GLN
3	c	382	ASN
13	o	36	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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	$\# Z > 2$
14	FME	t	1	14	8,9,10	0.55	0	8,9,11	0.92	0
12	FME	M	1	12	8,9,10	0.50	0	8,9,11	0.96	0
8	FME	i	1	8	8,9,10	0.51	0	8,9,11	0.74	0
12	FME	m	1	12	8,9,10	0.37	0	8,9,11	0.92	0
14	FME	T	1	14	8,9,10	0.57	0	8,9,11	0.81	0
8	FME	I	1	8	8,9,10	0.52	0	8,9,11	1.01	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
14	FME	t	1	14	-	3/7/9/11	-
12	FME	M	1	12	-	0/7/9/11	-
8	FME	i	1	8	-	0/7/9/11	-
12	FME	m	1	12	-	1/7/9/11	-
14	FME	T	1	14	-	1/7/9/11	-
8	FME	I	1	8	-	4/7/9/11	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	I	1	FME	C-CA-CB-CG
12	m	1	FME	O-C-CA-CB
14	t	1	FME	CB-CG-SD-CE
8	I	1	FME	CA-CB-CG-SD
8	I	1	FME	N-CA-CB-CG

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	T	1	FME	1	0
8	I	1	FME	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 211 ligands modelled in this entry, 6 are monoatomic - leaving 205 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
28	STE	d	407	-	19,19,19	0.65	0	19,19,19	1.00	1 (5%)
24	CLA	b	606	2	69,73,73	1.30	8 (11%)	82,113,113	1.47	7 (8%)
24	CLA	B	614	2	69,73,73	1.17	5 (7%)	82,113,113	1.32	8 (9%)
24	CLA	b	612	2	69,73,73	1.15	8 (11%)	82,113,113	1.31	10 (12%)
29	SQD	a	614	-	52,54,54	1.63	8 (15%)	62,65,65	1.55	9 (14%)
26	BCR	c	515	-	41,41,41	0.41	0	56,56,56	0.75	1 (1%)
26	BCR	h	101	-	41,41,41	0.45	0	56,56,56	0.78	2 (3%)
24	CLA	C	501	3	69,73,73	1.47	7 (10%)	82,113,113	1.39	6 (7%)
30	DGD	C	525	-	63,63,67	0.58	1 (1%)	77,77,81	0.79	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	CLA	b	602	2	69,73,73	1.30	9 (13%)	82,113,113	1.39	9 (10%)
31	LMG	B	621	-	51,51,55	0.46	0	59,59,63	0.85	2 (3%)
24	CLA	c	506	3	69,73,73	1.15	6 (8%)	82,113,113	1.22	6 (7%)
28	STE	b	625	-	15,15,19	0.72	0	15,15,19	1.07	1 (6%)
24	CLA	B	613	2	69,73,73	1.19	8 (11%)	82,113,113	1.36	8 (9%)
28	STE	b	621	-	15,15,19	0.36	0	14,14,19	0.81	0
26	BCR	C	514	-	41,41,41	0.31	0	56,56,56	0.65	0
30	DGD	H	102	-	63,63,67	0.58	0	77,77,81	0.89	3 (3%)
33	LHG	e	103	-	41,41,48	0.58	0	44,47,54	0.58	0
26	BCR	H	101	-	41,41,41	0.44	0	56,56,56	1.00	5 (8%)
28	STE	d	412	-	19,19,19	0.64	0	19,19,19	0.91	0
28	STE	E	102	-	11,11,19	0.73	0	11,11,19	1.21	2 (18%)
24	CLA	b	616	2	64,68,73	1.27	9 (14%)	76,107,113	1.46	8 (10%)
24	CLA	C	512	3	69,73,73	1.37	10 (14%)	82,113,113	1.38	9 (10%)
28	STE	j	102	-	15,15,19	0.38	0	14,14,19	0.73	0
33	LHG	l	101	-	48,48,48	0.47	0	51,54,54	0.59	0
28	STE	z	101	-	8,8,19	0.38	0	7,7,19	0.62	0
28	STE	d	414	-	13,13,19	0.68	0	13,13,19	1.10	0
26	BCR	b	619	-	41,41,41	0.38	0	56,56,56	0.88	1 (1%)
30	DGD	c	521	-	63,63,67	0.54	0	77,77,81	0.82	3 (3%)
28	STE	d	413	-	9,9,19	0.38	0	8,8,19	0.67	0
25	PHO	A	608	-	58,69,69	2.08	9 (15%)	55,99,99	1.81	10 (18%)
28	STE	C	528	-	15,15,19	0.35	0	14,14,19	0.77	0
28	STE	A	618	-	10,10,19	0.34	0	9,9,19	0.74	0
24	CLA	b	615	2	69,73,73	1.31	9 (13%)	82,113,113	1.36	9 (10%)
24	CLA	c	502	3	69,73,73	1.27	6 (8%)	82,113,113	1.34	7 (8%)
28	STE	B	624	-	13,13,19	0.65	0	13,13,19	1.16	0
24	CLA	D	404	4	69,73,73	1.18	10 (14%)	82,113,113	1.23	7 (8%)
28	STE	i	102	-	5,5,19	0.39	0	4,4,19	0.51	0
26	BCR	C	521	-	41,41,41	0.36	0	56,56,56	0.79	1 (1%)
33	LHG	a	612	-	38,38,48	0.55	0	41,44,54	0.58	0
24	CLA	b	613	2	69,73,73	1.24	9 (13%)	82,113,113	1.43	9 (10%)
24	CLA	B	616	2	64,68,73	1.40	6 (9%)	76,107,113	1.50	9 (11%)
33	LHG	d	409	-	48,48,48	0.56	0	51,54,54	0.65	1 (1%)
24	CLA	a	608	1	69,73,73	1.23	7 (10%)	82,113,113	1.25	9 (10%)
24	CLA	d	404	4	69,73,73	1.30	8 (11%)	82,113,113	1.18	8 (9%)
28	STE	B	626	-	11,11,19	0.74	0	11,11,19	1.16	1 (9%)
28	STE	H	103	-	17,17,19	0.36	0	16,16,19	0.81	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
30	DGD	C	524	-	63,63,67	0.56	0	77,77,81	0.69	0
31	LMG	b	624	-	55,55,55	0.44	0	63,63,63	0.93	4 (6%)
29	SQD	b	620	-	47,49,54	1.65	11 (23%)	57,60,65	1.82	11 (19%)
24	CLA	B	601	36	69,73,73	1.31	7 (10%)	82,113,113	1.42	4 (4%)
24	CLA	b	614	2	69,73,73	1.29	8 (11%)	82,113,113	1.31	6 (7%)
28	STE	e	106	-	12,12,19	0.66	0	12,12,19	1.31	2 (16%)
24	CLA	C	513	3	69,73,73	1.37	7 (10%)	82,113,113	1.32	9 (10%)
28	STE	C	516	-	13,13,19	0.77	0	13,13,19	1.00	0
24	CLA	c	511	3	69,73,73	1.48	7 (10%)	82,113,113	1.43	9 (10%)
31	LMG	D	407	-	50,50,55	0.50	0	58,58,63	1.18	5 (8%)
24	CLA	C	504	36	63,67,73	1.30	8 (12%)	74,105,113	1.33	9 (12%)
28	STE	B	627	-	14,14,19	0.40	0	13,13,19	0.67	0
28	STE	e	105	-	8,8,19	0.33	0	7,7,19	0.73	0
30	DGD	c	520	-	63,63,67	0.58	0	77,77,81	0.83	5 (6%)
28	STE	m	102	-	17,17,19	0.35	0	16,16,19	0.82	0
24	CLA	B	611	2	69,73,73	1.15	8 (11%)	82,113,113	1.44	8 (9%)
31	LMG	C	522	-	48,48,55	0.46	0	56,56,63	0.66	1 (1%)
31	LMG	a	616	-	49,49,55	0.53	0	57,57,63	0.82	2 (3%)
31	LMG	C	526	-	48,48,55	0.47	0	56,56,63	0.60	0
28	STE	H	104	-	8,8,19	0.36	0	7,7,19	0.72	0
24	CLA	b	610	36	69,73,73	1.20	7 (10%)	82,113,113	1.28	8 (9%)
29	SQD	B	623	-	52,54,54	1.57	9 (17%)	62,65,65	1.81	13 (20%)
24	CLA	A	606	36	69,73,73	1.22	6 (8%)	82,113,113	1.35	6 (7%)
26	BCR	b	618	-	41,41,41	0.39	0	56,56,56	0.90	1 (1%)
25	PHO	A	607	-	58,69,69	1.97	10 (17%)	55,99,99	1.66	7 (12%)
28	STE	c	516	-	12,12,19	0.35	0	11,11,19	0.79	0
28	STE	c	517	-	17,17,19	0.39	0	16,16,19	0.72	0
24	CLA	C	508	3	69,73,73	1.30	9 (13%)	82,113,113	1.46	10 (12%)
31	LMG	D	408	-	51,51,55	0.48	0	59,59,63	0.69	0
28	STE	J	101	-	11,11,19	0.72	0	11,11,19	1.18	0
28	STE	e	104	-	7,7,19	0.36	0	6,6,19	0.67	0
24	CLA	a	606	36	69,73,73	1.21	10 (14%)	82,113,113	1.36	6 (7%)
30	DGD	C	523	-	63,63,67	0.61	0	77,77,81	0.92	3 (3%)
24	CLA	c	509	3	69,73,73	1.21	7 (10%)	82,113,113	1.41	8 (9%)
33	LHG	d	408	-	48,48,48	0.52	0	51,54,54	0.62	0
28	STE	A	612	-	8,8,19	0.38	0	7,7,19	0.67	0
30	DGD	c	519	-	63,63,67	0.65	0	77,77,81	0.83	1 (1%)
28	STE	a	617	-	11,11,19	0.78	0	11,11,19	1.03	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
26	BCR	K	101	-	41,41,41	0.39	0	56,56,56	0.98	1 (1%)
25	PHO	a	607	-	58,69,69	2.05	9 (15%)	55,99,99	1.58	11 (20%)
24	CLA	B	615	2	69,73,73	1.41	8 (11%)	82,113,113	1.32	6 (7%)
31	LMG	b	622	-	51,51,55	0.49	0	59,59,63	0.84	2 (3%)
24	CLA	D	403	4	69,73,73	1.13	8 (11%)	82,113,113	1.32	8 (9%)
24	CLA	B	602	2	69,73,73	1.19	7 (10%)	82,113,113	1.27	8 (9%)
24	CLA	c	513	3	69,73,73	1.23	9 (13%)	82,113,113	1.20	7 (8%)
33	LHG	D	410	-	48,48,48	0.58	0	51,54,54	0.63	1 (1%)
28	STE	b	626	-	9,9,19	0.35	0	8,8,19	0.76	0
26	BCR	c	514	-	41,41,41	0.34	0	56,56,56	0.46	0
24	CLA	a	605	1	69,73,73	1.37	8 (11%)	82,113,113	1.33	8 (9%)
24	CLA	D	402	36	69,73,73	1.43	8 (11%)	82,113,113	1.37	6 (7%)
24	CLA	c	505	3	69,73,73	1.26	8 (11%)	82,113,113	1.44	8 (9%)
24	CLA	c	504	36	64,68,73	1.16	7 (10%)	76,107,113	1.34	10 (13%)
24	CLA	b	601	36	69,73,73	1.27	7 (10%)	82,113,113	1.39	5 (6%)
26	BCR	a	609	-	41,41,41	0.41	0	56,56,56	0.81	1 (1%)
27	PL9	a	610	-	55,55,55	0.92	2 (3%)	68,69,69	1.57	11 (16%)
24	CLA	C	502	3	69,73,73	1.27	7 (10%)	82,113,113	1.26	6 (7%)
32	BCT	D	401	22	3,3,3	0.77	0	2,3,3	2.19	1 (50%)
28	STE	B	625	-	17,17,19	0.62	0	17,17,19	1.19	0
24	CLA	b	611	2	69,73,73	1.32	8 (11%)	82,113,113	1.28	9 (10%)
26	BCR	C	515	-	41,41,41	0.37	0	56,56,56	0.84	2 (3%)
24	CLA	B	612	2	69,73,73	1.12	6 (8%)	82,113,113	1.39	9 (10%)
31	LMG	a	615	-	55,55,55	0.50	0	63,63,63	1.25	8 (12%)
26	BCR	t	101	-	41,41,41	0.47	0	56,56,56	1.18	4 (7%)
24	CLA	c	503	3	69,73,73	1.28	9 (13%)	82,113,113	1.44	7 (8%)
24	CLA	B	608	2	69,73,73	1.18	6 (8%)	82,113,113	1.34	7 (8%)
26	BCR	k	101	-	41,41,41	0.39	0	56,56,56	0.81	1 (1%)
24	CLA	C	509	3	69,73,73	1.24	10 (14%)	82,113,113	1.23	6 (7%)
28	STE	K	102	-	13,13,19	0.32	0	12,12,19	0.87	0
28	STE	d	410	-	19,19,19	0.60	0	19,19,19	0.98	0
28	STE	t	102	-	9,9,19	0.40	0	8,8,19	0.66	0
28	STE	m	101	-	11,11,19	0.76	0	11,11,19	1.35	2 (18%)
24	CLA	C	511	3	69,73,73	1.45	10 (14%)	82,113,113	1.44	5 (6%)
29	SQD	A	613	-	50,52,54	1.54	8 (16%)	60,63,65	1.99	11 (18%)
33	LHG	L	101	-	48,48,48	0.52	0	51,54,54	0.72	1 (1%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	CLA	C	506	3	69,73,73	1.26	7 (10%)	82,113,113	1.28	6 (7%)
33	LHG	D	412	-	48,48,48	0.57	0	51,54,54	0.64	0
24	CLA	b	603	2	69,73,73	1.28	7 (10%)	82,113,113	1.36	10 (12%)
26	BCR	b	617	-	41,41,41	0.41	0	56,56,56	0.83	2 (3%)
32	BCT	d	401	22	3,3,3	0.77	0	2,3,3	2.40	2 (100%)
24	CLA	c	507	36	69,73,73	1.32	8 (11%)	82,113,113	1.33	5 (6%)
24	CLA	B	610	36	69,73,73	1.30	9 (13%)	82,113,113	1.34	9 (10%)
27	PL9	A	611	-	55,55,55	0.77	1 (1%)	68,69,69	1.54	8 (11%)
24	CLA	B	603	2	69,73,73	1.17	5 (7%)	82,113,113	1.33	9 (10%)
28	STE	E	103	-	11,11,19	0.35	0	10,10,19	0.72	0
29	SQD	D	409	-	34,36,54	1.46	5 (14%)	42,45,65	1.64	9 (21%)
21	OEX	A	601	3,1,36	0,14,14	-	-	-	-	-
31	LMG	d	411	-	44,44,55	0.56	0	52,52,63	0.77	2 (3%)
26	BCR	A	610	-	41,41,41	0.38	0	56,56,56	0.80	1 (1%)
24	CLA	b	605	2	69,73,73	1.33	7 (10%)	82,113,113	1.42	10 (12%)
26	BCR	B	617	-	41,41,41	0.44	0	56,56,56	0.73	1 (1%)
30	DGD	A	615	-	67,67,67	0.51	0	81,81,81	0.91	4 (4%)
28	STE	C	520	-	9,9,19	0.41	0	8,8,19	0.63	0
25	PHO	d	402	-	58,69,69	2.18	9 (15%)	55,99,99	1.73	10 (18%)
33	LHG	E	101	-	48,48,48	0.54	0	51,54,54	0.56	0
35	HEC	v	201	16	50,50,50	1.64	6 (12%)	68,82,82	1.29	7 (10%)
31	LMG	c	522	-	46,46,55	0.48	0	54,54,63	0.72	2 (3%)
28	STE	E	104	-	19,19,19	0.63	0	19,19,19	1.06	1 (5%)
28	STE	D	413	-	19,19,19	0.63	0	19,19,19	1.07	0
24	CLA	B	604	2	69,73,73	1.33	7 (10%)	82,113,113	1.51	8 (9%)
24	CLA	C	505	3	69,73,73	1.28	6 (8%)	82,113,113	1.36	6 (7%)
24	CLA	b	604	2	69,73,73	1.15	7 (10%)	82,113,113	1.51	10 (12%)
28	STE	M	102	-	9,9,19	0.33	0	8,8,19	0.79	0
31	LMG	B	620	-	45,45,55	0.52	0	53,53,63	0.97	3 (5%)
24	CLA	B	607	36	69,73,73	1.11	5 (7%)	82,113,113	1.28	6 (7%)
29	SQD	f	101	-	39,41,54	1.66	7 (17%)	49,52,65	1.74	11 (22%)
31	LMG	c	518	-	29,29,55	0.40	0	31,31,63	0.68	1 (3%)
24	CLA	B	609	2	69,73,73	1.26	6 (8%)	82,113,113	1.33	6 (7%)
28	STE	A	616	-	7,7,19	0.32	0	6,6,19	0.79	0
28	STE	b	623	-	19,19,19	0.62	0	19,19,19	1.09	0
24	CLA	c	508	3	68,72,73	1.23	7 (10%)	80,111,113	1.24	9 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	CLA	A	605	1	69,73,73	1.24	6 (8%)	82,113,113	1.28	5 (6%)
28	STE	Z	101	-	16,16,19	0.39	0	15,15,19	0.69	0
34	HEM	e	102	6,5	50,50,50	1.56	8 (16%)	67,82,82	1.36	11 (16%)
24	CLA	b	608	2	69,73,73	1.29	10 (14%)	82,113,113	1.43	12 (14%)
27	PL9	D	406	-	55,55,55	1.04	4 (7%)	68,69,69	1.53	12 (17%)
24	CLA	b	607	36	69,73,73	1.24	6 (8%)	82,113,113	1.25	5 (6%)
24	CLA	c	512	3	69,73,73	1.25	7 (10%)	82,113,113	1.36	7 (8%)
24	CLA	a	611	36	69,73,73	1.32	6 (8%)	82,113,113	1.34	8 (9%)
29	SQD	a	613	-	52,54,54	1.54	7 (13%)	62,65,65	1.93	12 (19%)
30	DGD	h	102	-	63,63,67	0.55	0	77,77,81	1.00	6 (7%)
35	HEC	V	201	16	50,50,50	1.78	8 (16%)	68,82,82	1.41	10 (14%)
28	STE	C	519	-	6,6,19	0.37	0	5,5,19	0.61	0
24	CLA	c	501	3	69,73,73	1.13	6 (8%)	82,113,113	1.36	5 (6%)
24	CLA	B	605	2	69,73,73	1.20	7 (10%)	82,113,113	1.40	5 (6%)
28	STE	M	101	-	14,14,19	0.67	0	14,14,19	1.23	2 (14%)
28	STE	j	101	-	11,11,19	0.75	0	11,11,19	1.16	1 (9%)
28	STE	C	529	-	13,13,19	0.36	0	12,12,19	0.77	0
28	STE	e	101	-	8,8,19	0.38	0	7,7,19	0.64	0
28	STE	C	518	-	4,4,19	0.39	0	3,3,19	0.44	0
28	STE	C	527	-	11,11,19	0.71	0	11,11,19	1.31	1 (9%)
27	PL9	d	406	-	55,55,55	0.99	3 (5%)	68,69,69	1.55	13 (19%)
24	CLA	C	510	3	69,73,73	1.24	8 (11%)	82,113,113	1.37	7 (8%)
26	BCR	k	102	-	41,41,41	0.41	0	56,56,56	0.78	1 (1%)
28	STE	A	617	-	16,16,19	0.37	0	15,15,19	0.72	0
31	LMG	C	517	-	35,35,55	0.51	0	43,43,63	1.39	6 (13%)
26	BCR	D	405	-	41,41,41	0.42	0	56,56,56	0.97	1 (1%)
28	STE	B	622	-	16,16,19	0.66	0	16,16,19	1.16	0
24	CLA	C	503	3	69,73,73	1.38	9 (13%)	82,113,113	1.52	6 (7%)
28	STE	I	101	-	16,16,19	0.71	0	16,16,19	1.02	1 (6%)
34	HEM	F	101	6,5	50,50,50	1.49	8 (16%)	67,82,82	1.21	8 (11%)
24	CLA	C	507	36	69,73,73	1.16	6 (8%)	82,113,113	1.45	6 (7%)
26	BCR	T	101	-	41,41,41	0.48	0	56,56,56	0.99	3 (5%)
24	CLA	b	609	2	69,73,73	1.19	6 (8%)	82,113,113	1.32	8 (9%)
24	CLA	c	510	3	69,73,73	1.25	8 (11%)	82,113,113	1.21	8 (9%)
28	STE	b	627	-	10,10,19	0.35	0	9,9,19	0.71	0
33	LHG	D	411	-	46,46,48	0.55	0	49,52,54	0.63	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
26	BCR	B	619	-	41,41,41	0.42	0	56,56,56	1.01	3 (5%)
28	STE	I	102	-	14,14,19	0.67	0	14,14,19	1.13	1 (7%)
29	SQD	A	614	-	41,43,54	1.72	8 (19%)	51,54,65	1.51	8 (15%)
24	CLA	A	609	1	58,62,73	1.21	5 (8%)	68,99,113	1.37	9 (13%)
24	CLA	B	606	2	69,73,73	1.47	6 (8%)	82,113,113	1.43	9 (10%)
31	LMG	c	523	-	48,48,55	0.47	0	56,56,63	0.72	0
24	CLA	d	403	4	69,73,73	1.10	6 (8%)	82,113,113	1.25	7 (8%)
26	BCR	d	405	-	41,41,41	0.52	0	56,56,56	1.03	4 (7%)
28	STE	i	101	-	11,11,19	0.75	0	11,11,19	1.11	1 (9%)
21	OEX	a	601	3,1,36	0,14,14	-	-	-	-	-
26	BCR	B	618	-	41,41,41	0.41	0	56,56,56	0.90	1 (1%)
28	STE	M	103	-	14,14,19	0.34	0	13,13,19	0.83	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
28	STE	d	407	-	-	11/17/17/17	-
24	CLA	b	606	2	-	13/39/115/115	-
24	CLA	B	614	2	-	15/39/115/115	-
24	CLA	b	612	2	-	5/39/115/115	-
29	SQD	a	614	-	-	23/49/69/69	0/1/1/1
26	BCR	c	515	-	-	0/29/63/63	0/2/2/2
26	BCR	h	101	-	-	1/29/63/63	0/2/2/2
24	CLA	C	501	3	-	1/39/115/115	-
30	DGD	C	525	-	-	10/51/91/95	0/2/2/2
24	CLA	b	602	2	-	9/39/115/115	-
31	LMG	B	621	-	-	16/46/66/70	0/1/1/1
24	CLA	c	506	3	-	18/39/115/115	-
28	STE	b	625	-	-	7/13/13/17	-
24	CLA	B	613	2	-	14/39/115/115	-
28	STE	b	621	-	-	10/13/13/17	-
26	BCR	C	514	-	-	4/29/63/63	0/2/2/2
30	DGD	H	102	-	-	20/51/91/95	0/2/2/2
33	LHG	e	103	-	-	18/46/46/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	BCR	H	101	-	-	4/29/63/63	0/2/2/2
28	STE	d	412	-	-	12/17/17/17	-
28	STE	E	102	-	-	6/9/9/17	-
24	CLA	b	616	2	-	5/33/109/115	-
24	CLA	C	512	3	-	8/39/115/115	-
28	STE	j	102	-	-	7/13/13/17	-
33	LHG	l	101	-	-	18/53/53/53	-
28	STE	z	101	-	-	3/6/6/17	-
28	STE	d	414	-	-	8/11/11/17	-
26	BCR	b	619	-	-	0/29/63/63	0/2/2/2
30	DGD	c	521	-	-	17/51/91/95	0/2/2/2
28	STE	d	413	-	-	2/7/7/17	-
25	PHO	A	608	-	-	2/37/103/103	0/5/6/6
28	STE	C	528	-	-	8/13/13/17	-
28	STE	A	618	-	-	7/8/8/17	-
24	CLA	b	615	2	-	7/39/115/115	-
24	CLA	c	502	3	-	8/39/115/115	-
28	STE	B	624	-	-	5/11/11/17	-
24	CLA	D	404	4	-	9/39/115/115	-
28	STE	i	102	-	-	1/3/3/17	-
26	BCR	C	521	-	-	6/29/63/63	0/2/2/2
33	LHG	a	612	-	-	9/43/43/53	-
24	CLA	b	613	2	-	10/39/115/115	-
24	CLA	B	616	2	-	10/33/109/115	-
33	LHG	d	409	-	-	11/53/53/53	-
24	CLA	a	608	1	-	11/39/115/115	-
24	CLA	d	404	4	-	10/39/115/115	-
28	STE	B	626	-	-	5/9/9/17	-
28	STE	H	103	-	-	7/15/15/17	-
30	DGD	C	524	-	-	21/51/91/95	0/2/2/2
31	LMG	b	624	-	-	25/50/70/70	0/1/1/1
29	SQD	b	620	-	-	22/44/64/69	0/1/1/1
24	CLA	B	601	36	-	20/39/115/115	-
24	CLA	b	614	2	-	15/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
28	STE	e	106	-	-	4/10/10/17	-
24	CLA	C	513	3	-	10/39/115/115	-
28	STE	C	516	-	-	4/11/11/17	-
24	CLA	c	511	3	-	6/39/115/115	-
31	LMG	D	407	-	-	20/45/65/70	0/1/1/1
24	CLA	C	504	36	-	7/32/108/115	-
28	STE	B	627	-	-	8/12/12/17	-
28	STE	e	105	-	-	4/6/6/17	-
30	DGD	c	520	-	-	17/51/91/95	0/2/2/2
28	STE	m	102	-	-	13/15/15/17	-
24	CLA	B	611	2	-	5/39/115/115	-
31	LMG	C	522	-	-	12/43/63/70	0/1/1/1
31	LMG	a	616	-	-	15/44/64/70	0/1/1/1
31	LMG	C	526	-	-	16/43/63/70	0/1/1/1
28	STE	H	104	-	-	3/6/6/17	-
24	CLA	b	610	36	-	5/39/115/115	-
29	SQD	B	623	-	-	27/49/69/69	0/1/1/1
24	CLA	A	606	36	-	8/39/115/115	-
26	BCR	b	618	-	-	0/29/63/63	0/2/2/2
25	PHO	A	607	-	-	0/37/103/103	0/5/6/6
28	STE	c	516	-	-	6/10/10/17	-
28	STE	c	517	-	-	7/15/15/17	-
24	CLA	C	508	3	-	4/39/115/115	-
31	LMG	D	408	-	-	17/46/66/70	0/1/1/1
28	STE	J	101	-	-	7/9/9/17	-
28	STE	e	104	-	-	4/5/5/17	-
24	CLA	a	606	36	-	7/39/115/115	-
30	DGD	C	523	-	-	22/51/91/95	0/2/2/2
24	CLA	c	509	3	-	16/39/115/115	-
33	LHG	d	408	-	-	16/53/53/53	-
28	STE	A	612	-	-	3/6/6/17	-
30	DGD	c	519	-	-	24/51/91/95	0/2/2/2
28	STE	a	617	-	-	3/9/9/17	-
26	BCR	K	101	-	-	3/29/63/63	0/2/2/2
25	PHO	a	607	-	-	1/37/103/103	0/5/6/6

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	CLA	B	615	2	-	14/39/115/115	-
31	LMG	b	622	-	-	19/46/66/70	0/1/1/1
24	CLA	D	403	4	-	6/39/115/115	-
24	CLA	B	602	2	-	4/39/115/115	-
24	CLA	c	513	3	-	11/39/115/115	-
33	LHG	D	410	-	-	18/53/53/53	-
28	STE	b	626	-	-	5/7/7/17	-
26	BCR	c	514	-	-	0/29/63/63	0/2/2/2
24	CLA	a	605	1	-	3/39/115/115	-
24	CLA	D	402	36	-	5/39/115/115	-
24	CLA	c	505	3	-	12/39/115/115	-
24	CLA	c	504	36	-	9/33/109/115	-
24	CLA	b	601	36	-	14/39/115/115	-
26	BCR	a	609	-	-	0/29/63/63	0/2/2/2
27	PL9	a	610	-	-	19/53/73/73	0/1/1/1
24	CLA	C	502	3	-	12/39/115/115	-
28	STE	B	625	-	-	9/15/15/17	-
24	CLA	b	611	2	-	10/39/115/115	-
26	BCR	C	515	-	-	0/29/63/63	0/2/2/2
24	CLA	B	612	2	-	10/39/115/115	-
31	LMG	a	615	-	-	28/50/70/70	0/1/1/1
26	BCR	t	101	-	-	8/29/63/63	0/2/2/2
24	CLA	c	503	3	-	10/39/115/115	-
24	CLA	B	608	2	-	1/39/115/115	-
26	BCR	k	101	-	-	7/29/63/63	0/2/2/2
24	CLA	C	509	3	-	13/39/115/115	-
28	STE	K	102	-	-	5/11/11/17	-
28	STE	d	410	-	-	9/17/17/17	-
28	STE	t	102	-	-	4/7/7/17	-
28	STE	m	101	-	-	4/9/9/17	-
24	CLA	C	511	3	-	4/39/115/115	-
29	SQD	A	613	-	-	22/47/67/69	0/1/1/1
33	LHG	L	101	-	-	10/53/53/53	-
24	CLA	C	506	3	-	8/39/115/115	-
33	LHG	D	412	-	-	16/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	CLA	b	603	2	-	10/39/115/115	-
26	BCR	b	617	-	-	2/29/63/63	0/2/2/2
24	CLA	c	507	36	-	8/39/115/115	-
24	CLA	B	610	36	-	5/39/115/115	-
27	PL9	A	611	-	-	19/53/73/73	0/1/1/1
24	CLA	B	603	2	-	12/39/115/115	-
28	STE	E	103	-	-	4/9/9/17	-
29	SQD	D	409	-	-	14/28/48/69	0/1/1/1
31	LMG	d	411	-	-	7/39/59/70	0/1/1/1
26	BCR	A	610	-	-	0/29/63/63	0/2/2/2
24	CLA	b	605	2	-	1/39/115/115	-
26	BCR	B	617	-	-	1/29/63/63	0/2/2/2
30	DGD	A	615	-	-	20/55/95/95	0/2/2/2
28	STE	C	520	-	-	6/7/7/17	-
25	PHO	d	402	-	-	4/37/103/103	0/5/6/6
33	LHG	E	101	-	-	24/53/53/53	-
35	HEC	v	201	16	1/1/3/7	4/14/54/54	-
31	LMG	c	522	-	-	13/41/61/70	0/1/1/1
28	STE	E	104	-	-	7/17/17/17	-
28	STE	D	413	-	-	7/17/17/17	-
24	CLA	B	604	2	-	8/39/115/115	-
24	CLA	C	505	3	-	8/39/115/115	-
24	CLA	b	604	2	-	7/39/115/115	-
28	STE	M	102	-	-	3/7/7/17	-
31	LMG	B	620	-	-	13/40/60/70	0/1/1/1
24	CLA	B	607	36	-	6/39/115/115	-
29	SQD	f	101	-	-	18/36/56/69	0/1/1/1
31	LMG	c	518	-	-	8/31/31/70	-
24	CLA	B	609	2	-	1/39/115/115	-
28	STE	A	616	-	-	3/5/5/17	-
28	STE	b	623	-	-	11/17/17/17	-
24	CLA	c	508	3	-	8/38/114/115	-
24	CLA	A	605	1	-	4/39/115/115	-
28	STE	Z	101	-	-	7/14/14/17	-
34	HEM	e	102	6,5	-	6/14/54/54	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	CLA	b	608	2	-	3/39/115/115	-
27	PL9	D	406	-	-	5/53/73/73	0/1/1/1
24	CLA	b	607	36	-	15/39/115/115	-
24	CLA	c	512	3	-	18/39/115/115	-
24	CLA	a	611	36	-	3/39/115/115	-
29	SQD	a	613	-	-	22/49/69/69	0/1/1/1
30	DGD	h	102	-	-	18/51/91/95	0/2/2/2
35	HEC	V	201	16	1/1/3/7	5/14/54/54	-
28	STE	C	519	-	-	3/4/4/17	-
24	CLA	c	501	3	-	3/39/115/115	-
24	CLA	B	605	2	-	10/39/115/115	-
28	STE	M	101	-	-	9/12/12/17	-
28	STE	j	101	-	-	4/9/9/17	-
28	STE	C	529	-	-	4/11/11/17	-
28	STE	e	101	-	-	1/6/6/17	-
28	STE	C	518	-	-	0/2/2/17	-
28	STE	C	527	-	-	4/9/9/17	-
27	PL9	d	406	-	-	10/53/73/73	0/1/1/1
24	CLA	C	510	3	-	5/39/115/115	-
26	BCR	k	102	-	-	2/29/63/63	0/2/2/2
28	STE	A	617	-	-	10/14/14/17	-
31	LMG	C	517	-	-	15/30/50/70	0/1/1/1
26	BCR	D	405	-	-	5/29/63/63	0/2/2/2
28	STE	B	622	-	-	7/14/14/17	-
24	CLA	C	503	3	-	5/39/115/115	-
28	STE	I	101	-	-	10/14/14/17	-
34	HEM	F	101	6,5	-	3/14/54/54	-
24	CLA	C	507	36	-	7/39/115/115	-
26	BCR	T	101	-	-	7/29/63/63	0/2/2/2
24	CLA	b	609	2	-	9/39/115/115	-
24	CLA	c	510	3	-	6/39/115/115	-
28	STE	b	627	-	-	4/8/8/17	-
33	LHG	D	411	-	-	15/51/51/53	-
26	BCR	B	619	-	-	3/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
28	STE	I	102	-	-	4/12/12/17	-
29	SQD	A	614	-	-	12/38/58/69	0/1/1/1
24	CLA	A	609	1	-	2/26/102/115	-
24	CLA	B	606	2	-	13/39/115/115	-
31	LMG	c	523	-	-	14/43/63/70	0/1/1/1
24	CLA	d	403	4	-	9/39/115/115	-
26	BCR	d	405	-	-	6/29/63/63	0/2/2/2
28	STE	i	101	-	-	6/9/9/17	-
26	BCR	B	618	-	-	0/29/63/63	0/2/2/2
28	STE	M	103	-	-	8/12/12/17	-

The worst 5 of 659 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	d	402	PHO	C3B-C4B	9.59	1.51	1.41
25	d	402	PHO	C1B-C2B	9.49	1.49	1.39
25	A	608	PHO	C1B-C2B	8.86	1.49	1.39
25	a	607	PHO	C1B-C2B	8.85	1.49	1.39
25	A	608	PHO	C3B-C4B	8.73	1.50	1.41

The worst 5 of 853 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	B	601	CLA	C4A-NA-C1A	9.14	110.85	106.68
24	C	511	CLA	C4A-NA-C1A	8.90	110.74	106.68
24	B	604	CLA	C4A-NA-C1A	8.56	110.59	106.68
24	b	606	CLA	C4A-NA-C1A	8.41	110.52	106.68
24	C	503	CLA	C4A-NA-C1A	8.37	110.50	106.68

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
35	V	201	HEC	NA
35	v	201	HEC	NA

5 of 1770 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
24	A	606	CLA	C2B-C3B-CAB-CBB
24	A	606	CLA	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
24	A	609	CLA	C2-C3-C5-C6
24	A	609	CLA	C4-C3-C5-C6
24	B	601	CLA	C1A-C2A-CAA-CBA

There are no ring outliers.

151 monomers are involved in 262 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
28	d	407	STE	1	0
24	b	606	CLA	3	0
24	B	614	CLA	3	0
24	b	612	CLA	1	0
29	a	614	SQD	1	0
26	c	515	BCR	1	0
26	h	101	BCR	2	0
30	C	525	DGD	1	0
24	b	602	CLA	3	0
31	B	621	LMG	1	0
24	c	506	CLA	1	0
24	B	613	CLA	3	0
28	b	621	STE	2	0
30	H	102	DGD	1	0
33	e	103	LHG	1	0
26	H	101	BCR	2	0
28	d	412	STE	1	0
24	b	616	CLA	4	0
24	C	512	CLA	2	0
28	j	102	STE	1	0
33	l	101	LHG	2	0
28	z	101	STE	1	0
28	d	414	STE	1	0
30	c	521	DGD	2	0
28	d	413	STE	1	0
25	A	608	PHO	1	0
28	C	528	STE	1	0
28	A	618	STE	4	0
24	b	615	CLA	3	0
28	i	102	STE	1	0
26	C	521	BCR	2	0
33	a	612	LHG	2	0
24	b	613	CLA	3	0
24	B	616	CLA	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
33	d	409	LHG	1	0
24	a	608	CLA	2	0
24	d	404	CLA	1	0
28	H	103	STE	3	0
30	C	524	DGD	2	0
31	b	624	LMG	1	0
29	b	620	SQD	2	0
24	B	601	CLA	3	0
24	b	614	CLA	2	0
28	e	106	STE	1	0
24	C	513	CLA	2	0
24	c	511	CLA	3	0
31	D	407	LMG	9	0
24	C	504	CLA	2	0
28	B	627	STE	1	0
30	c	520	DGD	1	0
24	B	611	CLA	1	0
31	C	522	LMG	2	0
31	C	526	LMG	1	0
24	b	610	CLA	3	0
29	B	623	SQD	2	0
24	A	606	CLA	2	0
28	c	516	STE	1	0
28	c	517	STE	2	0
31	D	408	LMG	1	0
24	a	606	CLA	1	0
30	C	523	DGD	1	0
24	c	509	CLA	6	0
33	d	408	LHG	1	0
30	c	519	DGD	1	0
26	K	101	BCR	1	0
24	B	615	CLA	2	0
31	b	622	LMG	3	0
24	D	403	CLA	3	0
24	B	602	CLA	1	0
24	c	513	CLA	2	0
33	D	410	LHG	3	0
26	c	514	BCR	2	0
24	a	605	CLA	1	0
24	D	402	CLA	3	0
24	c	505	CLA	3	0
24	c	504	CLA	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	b	601	CLA	1	0
26	a	609	BCR	1	0
27	a	610	PL9	6	0
24	C	502	CLA	1	0
24	b	611	CLA	1	0
26	C	515	BCR	1	0
24	B	612	CLA	1	0
31	a	615	LMG	6	0
26	t	101	BCR	3	0
24	c	503	CLA	4	0
26	k	101	BCR	2	0
24	C	509	CLA	2	0
28	K	102	STE	1	0
28	d	410	STE	4	0
24	C	511	CLA	2	0
29	A	613	SQD	2	0
33	L	101	LHG	1	0
33	D	412	LHG	3	0
24	b	603	CLA	3	0
26	b	617	BCR	2	0
24	c	507	CLA	1	0
24	B	610	CLA	1	0
27	A	611	PL9	5	0
28	E	103	STE	1	0
24	b	605	CLA	1	0
26	B	617	BCR	2	0
30	A	615	DGD	4	0
25	d	402	PHO	2	0
33	E	101	LHG	4	0
35	v	201	HEC	1	0
31	c	522	LMG	1	0
28	E	104	STE	1	0
28	D	413	STE	1	0
24	B	604	CLA	4	0
24	C	505	CLA	2	0
31	B	620	LMG	4	0
24	B	607	CLA	2	0
29	f	101	SQD	3	0
31	c	518	LMG	2	0
24	B	609	CLA	1	0
28	b	623	STE	1	0
24	c	508	CLA	4	0

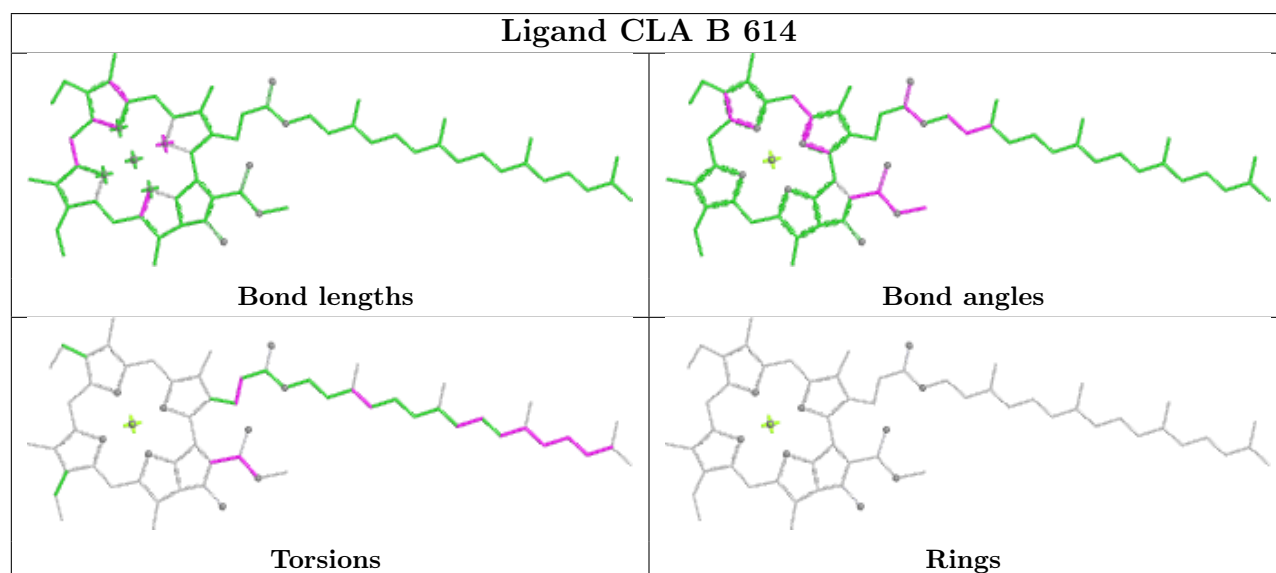
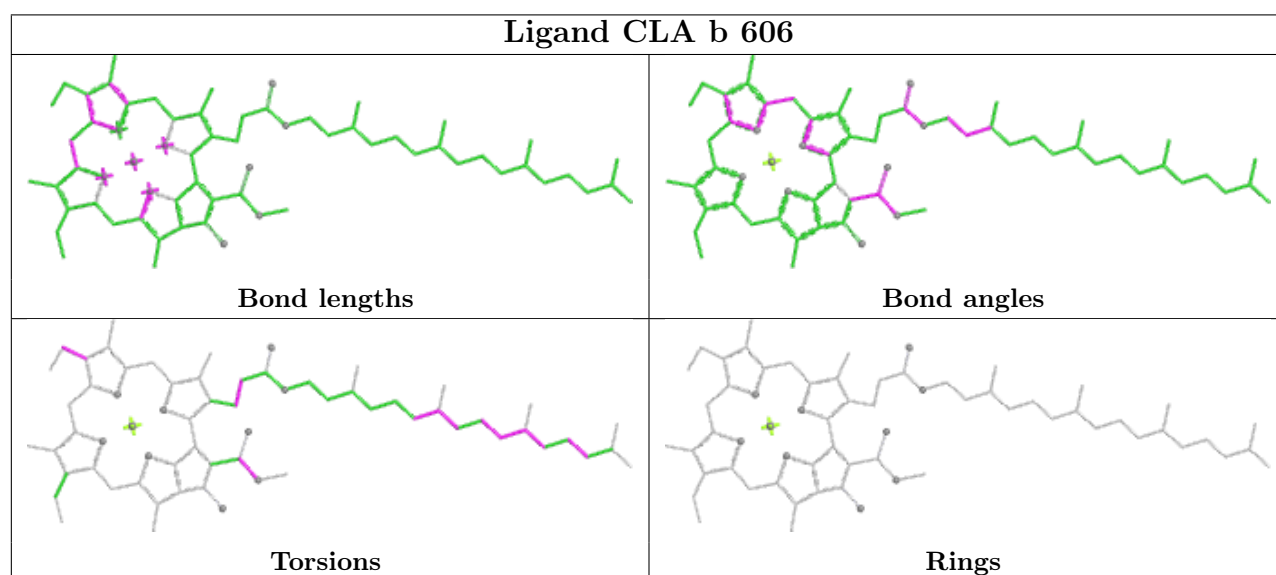
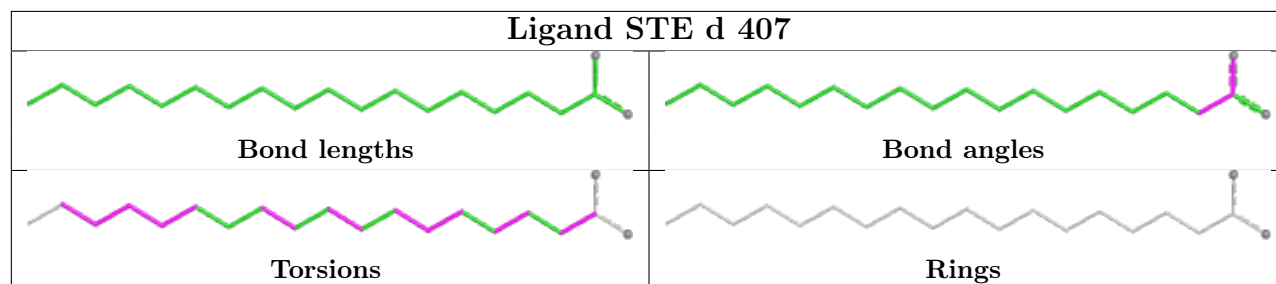
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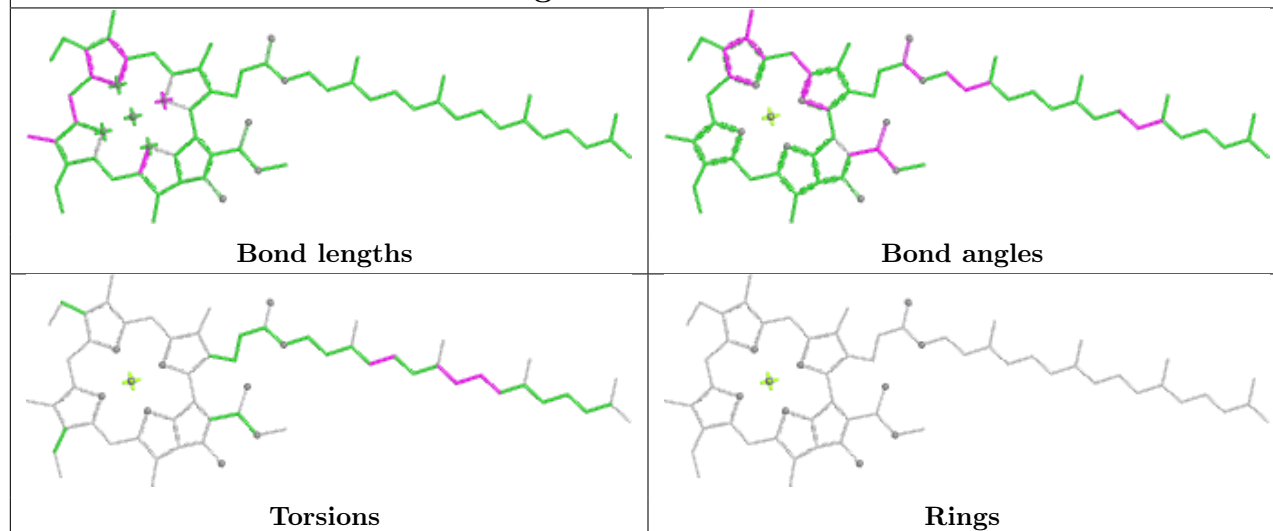
Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	A	605	CLA	4	0
28	Z	101	STE	1	0
34	e	102	HEM	4	0
24	c	512	CLA	2	0
24	a	611	CLA	4	0
29	a	613	SQD	3	0
24	c	501	CLA	4	0
24	B	605	CLA	1	0
28	C	529	STE	1	0
28	C	518	STE	1	0
27	d	406	PL9	2	0
26	k	102	BCR	1	0
28	A	617	STE	1	0
31	C	517	LMG	1	0
26	D	405	BCR	1	0
28	B	622	STE	2	0
34	F	101	HEM	2	0
24	C	507	CLA	2	0
26	T	101	BCR	2	0
24	b	609	CLA	2	0
24	c	510	CLA	4	0
28	b	627	STE	2	0
33	D	411	LHG	5	0
28	I	102	STE	2	0
29	A	614	SQD	1	0
24	A	609	CLA	1	0
24	B	606	CLA	3	0
31	c	523	LMG	2	0
24	d	403	CLA	2	0
26	d	405	BCR	1	0
28	i	101	STE	3	0
26	B	618	BCR	1	0
28	M	103	STE	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

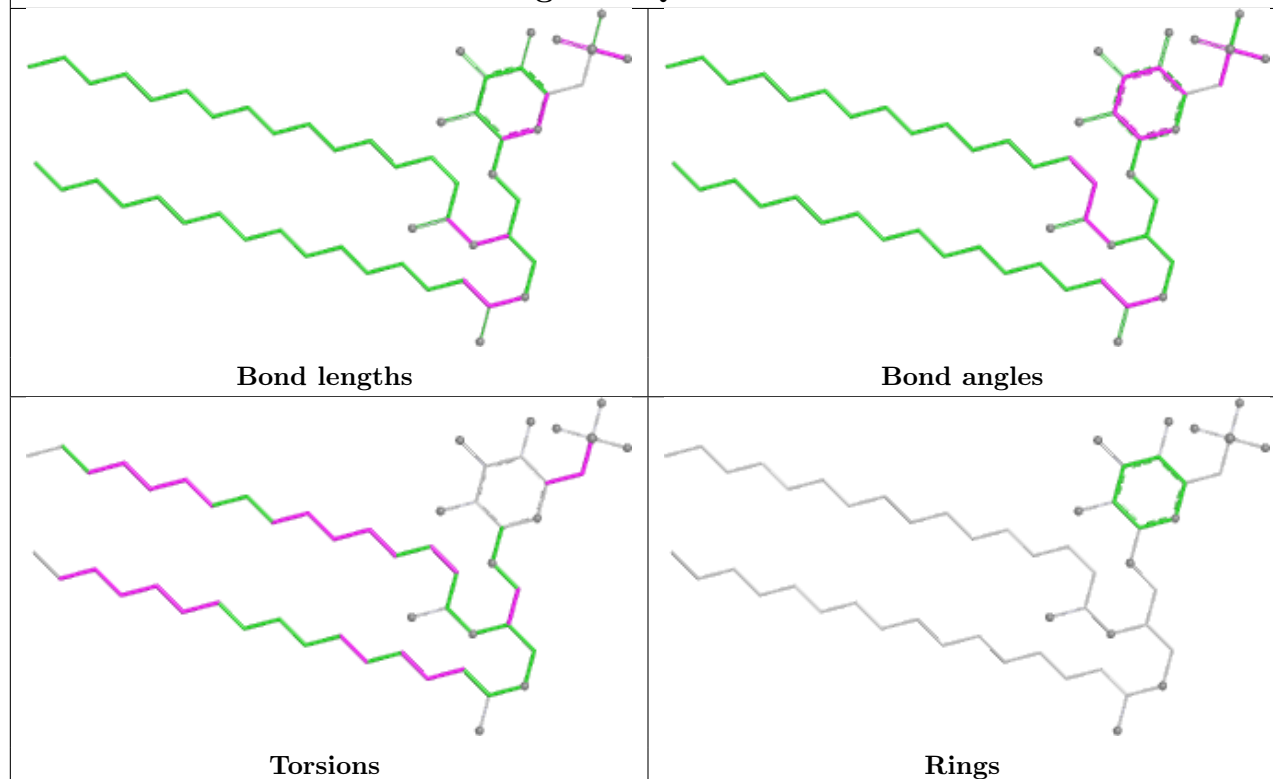
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



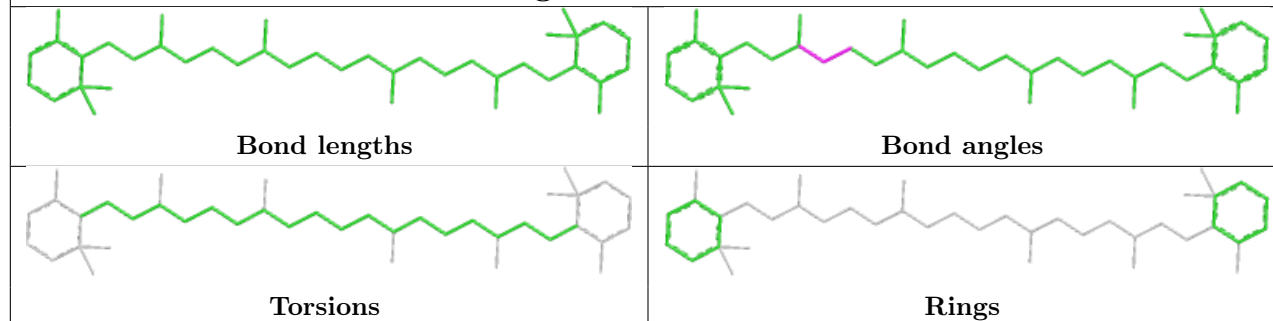
Ligand CLA b 612

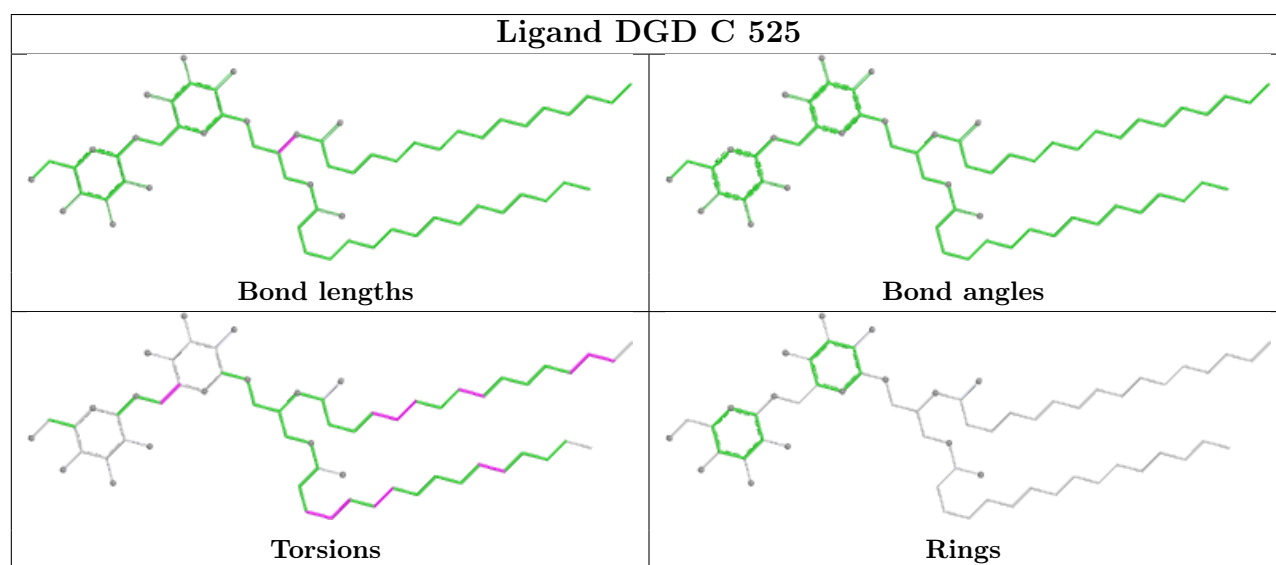
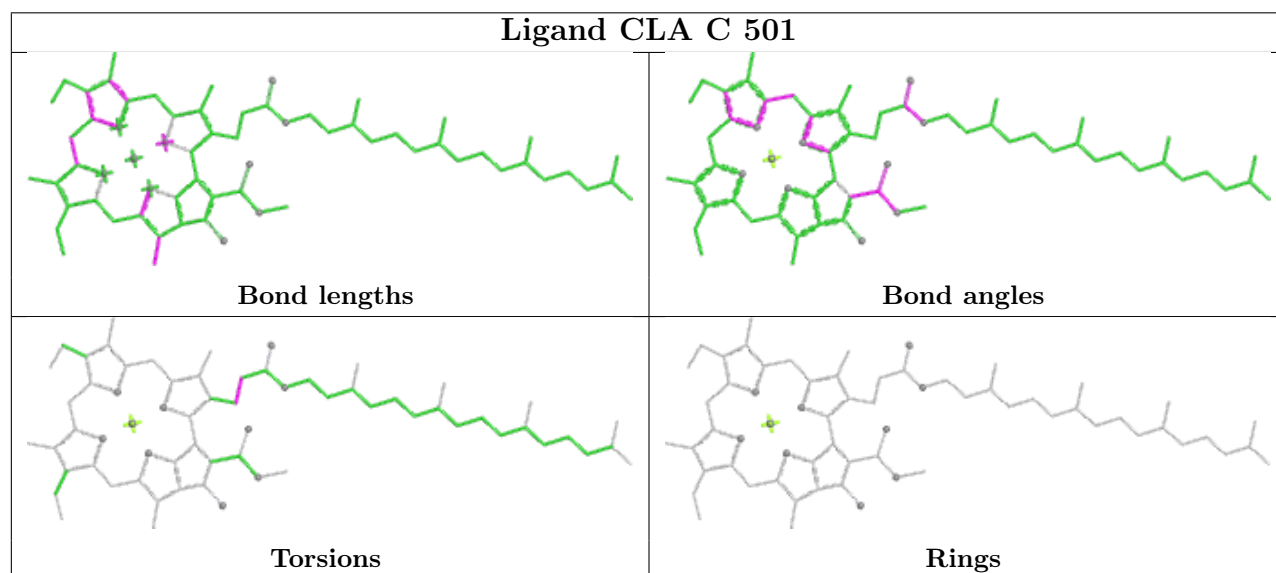
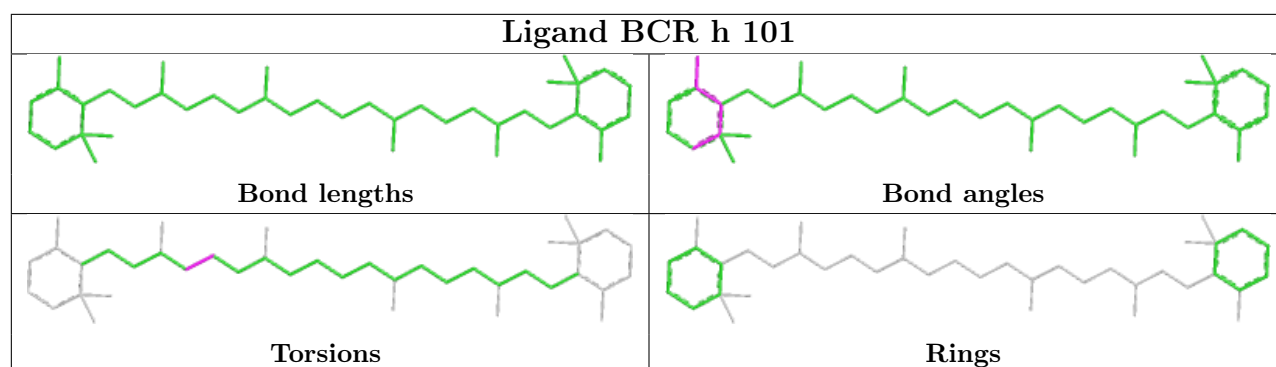


Ligand SQD a 614

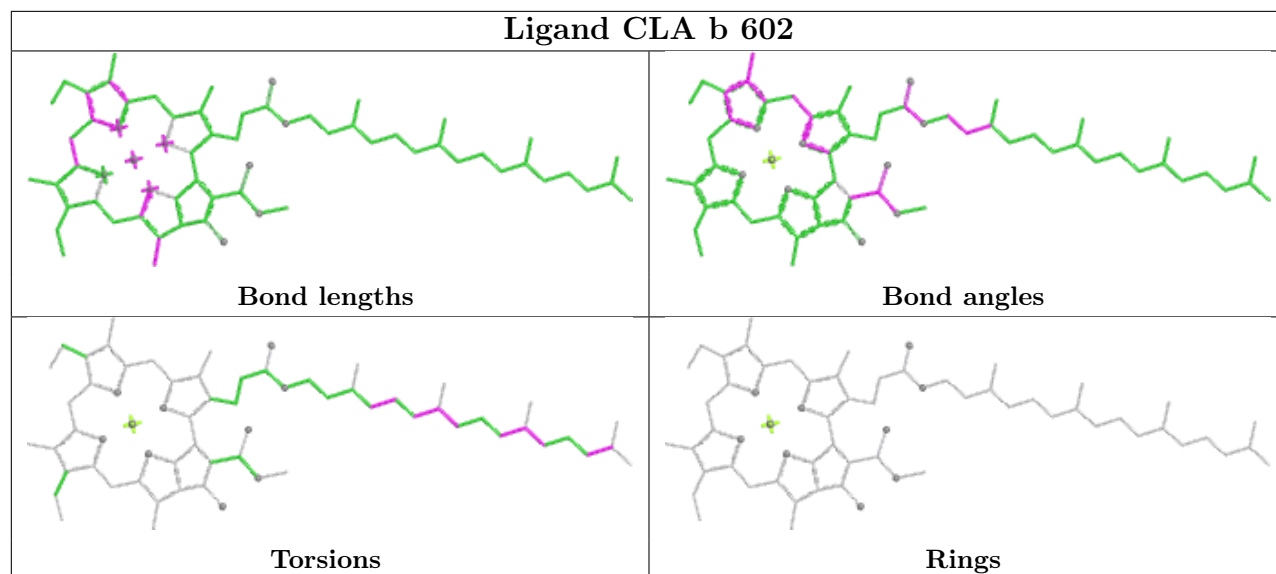


Ligand BCR c 515

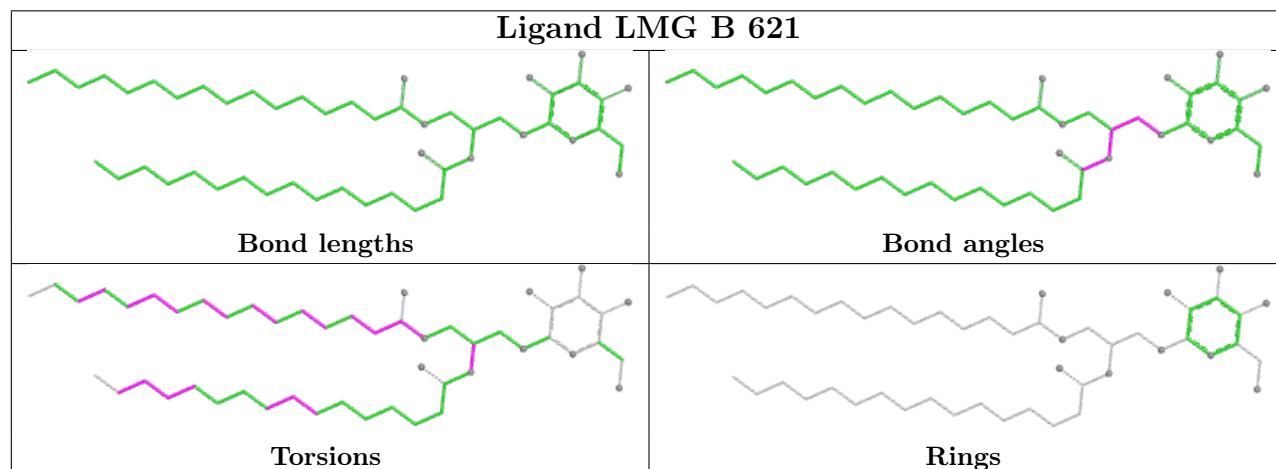




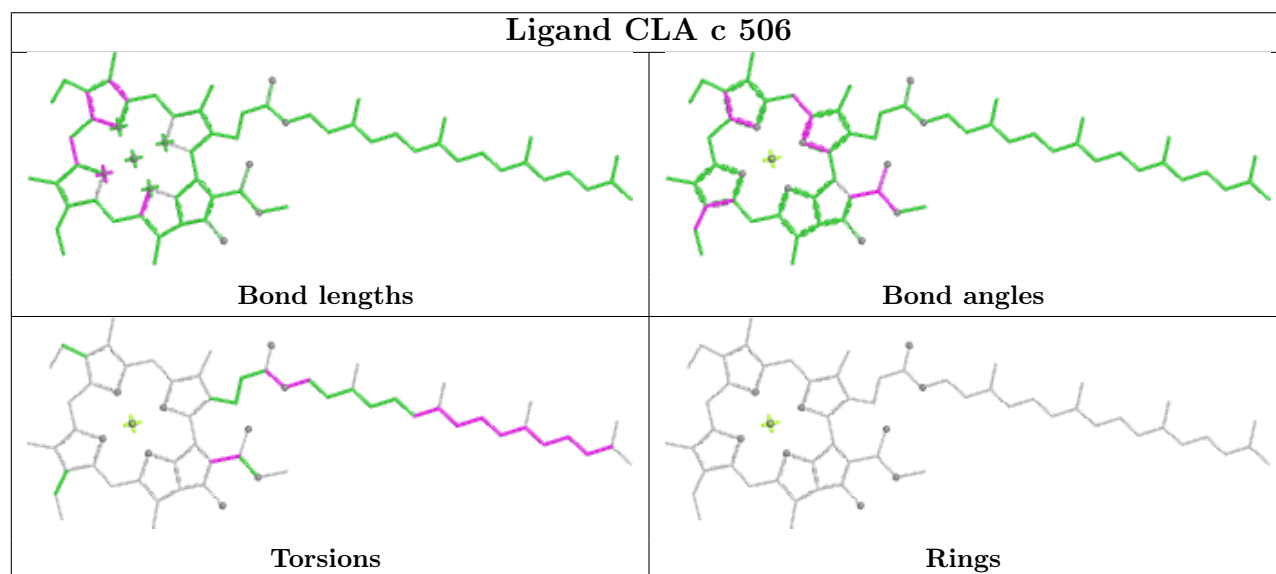
Ligand CLA b 602

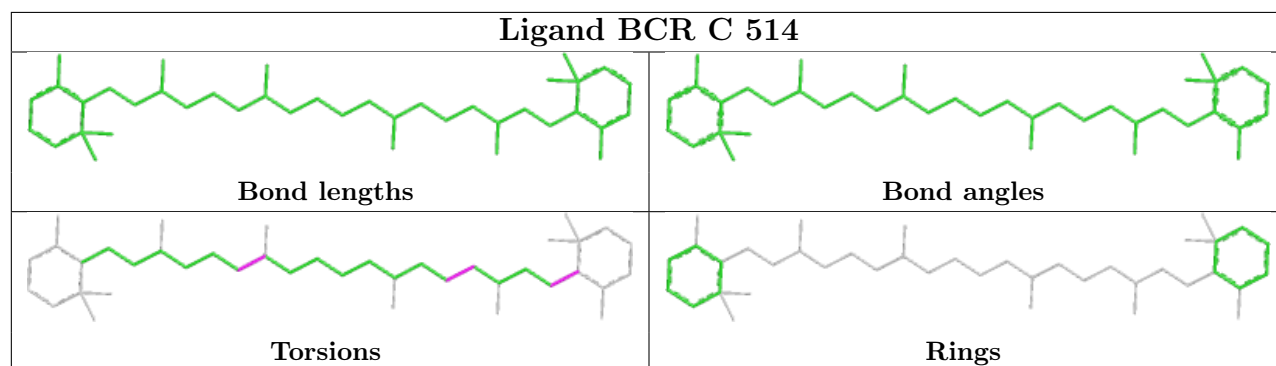
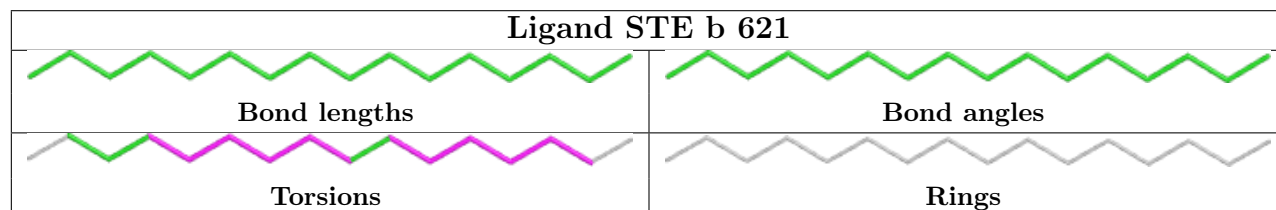
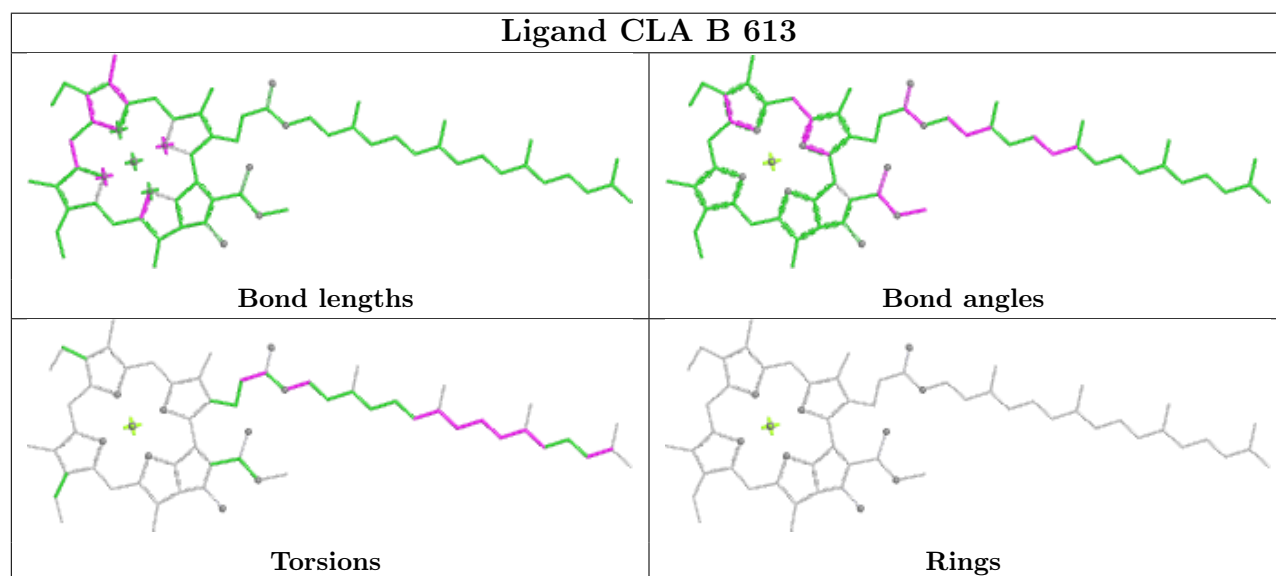
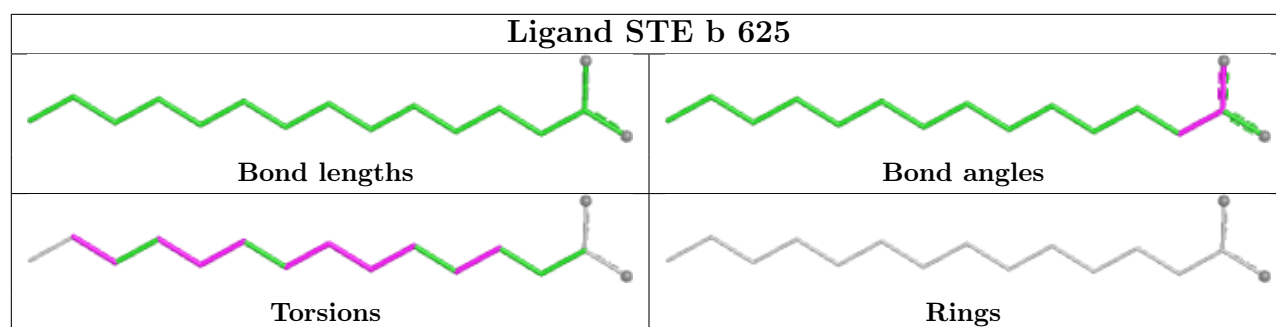


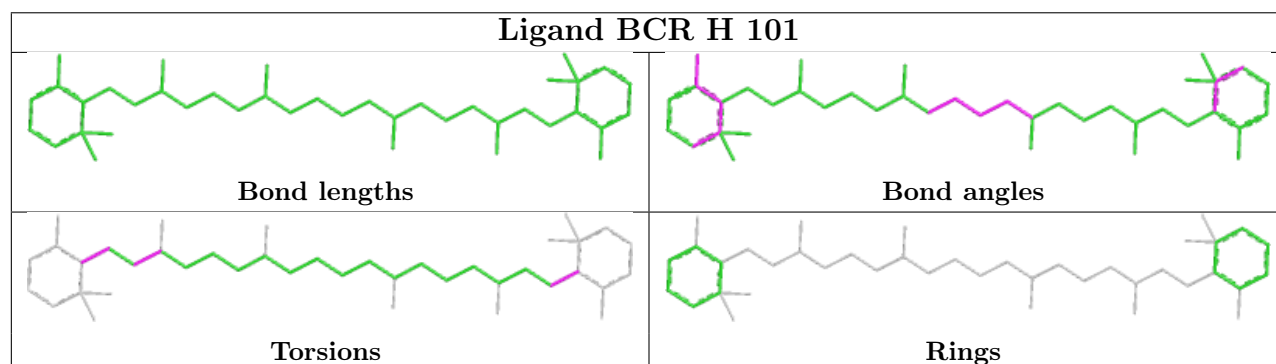
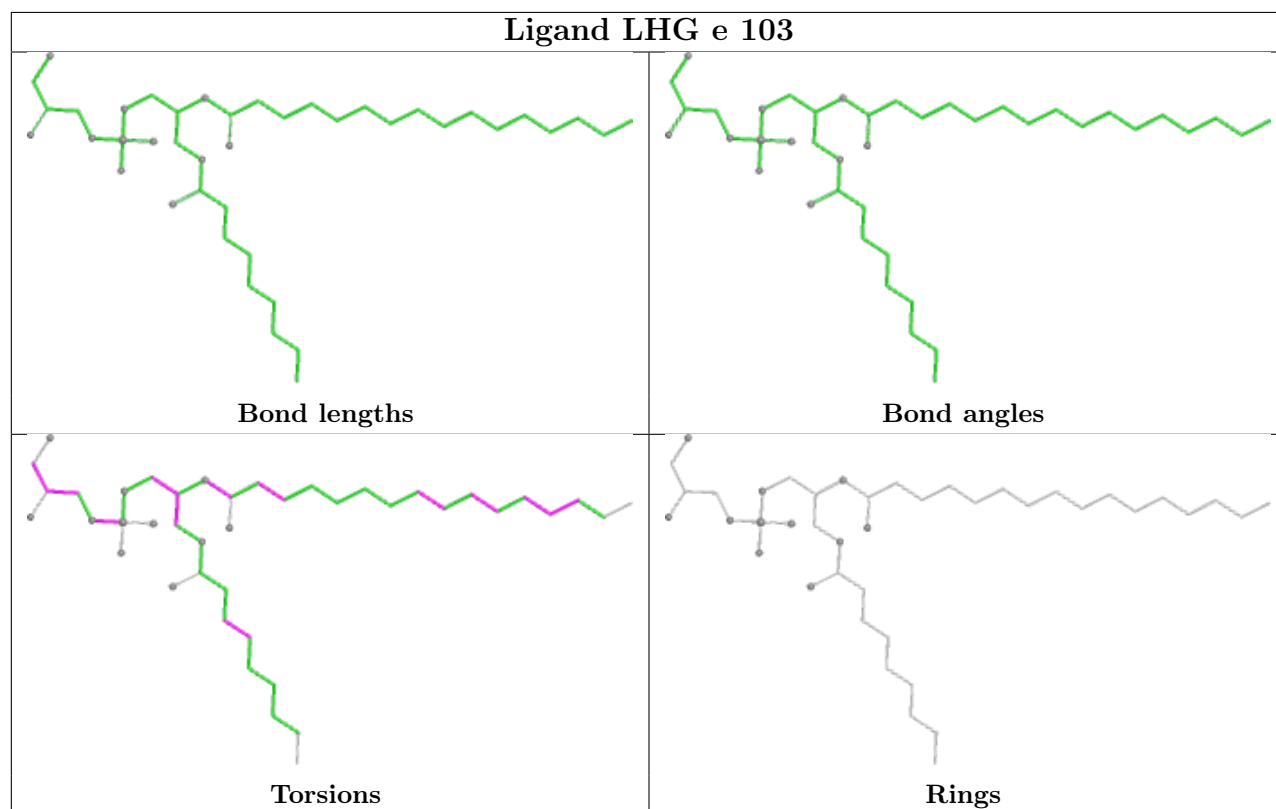
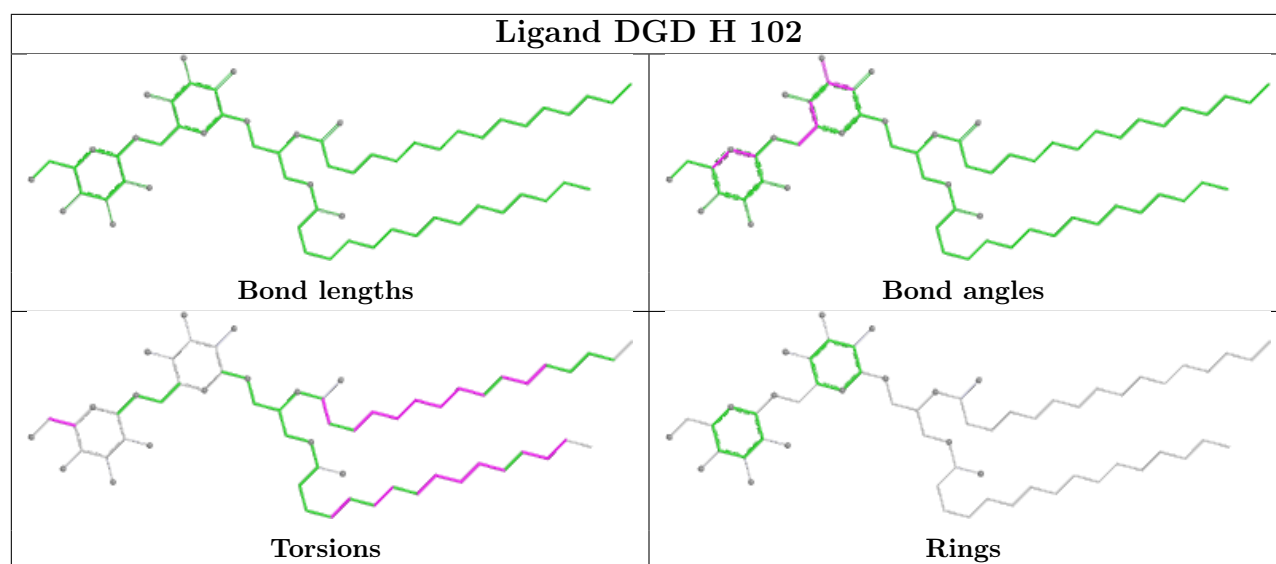
Ligand LMG B 621

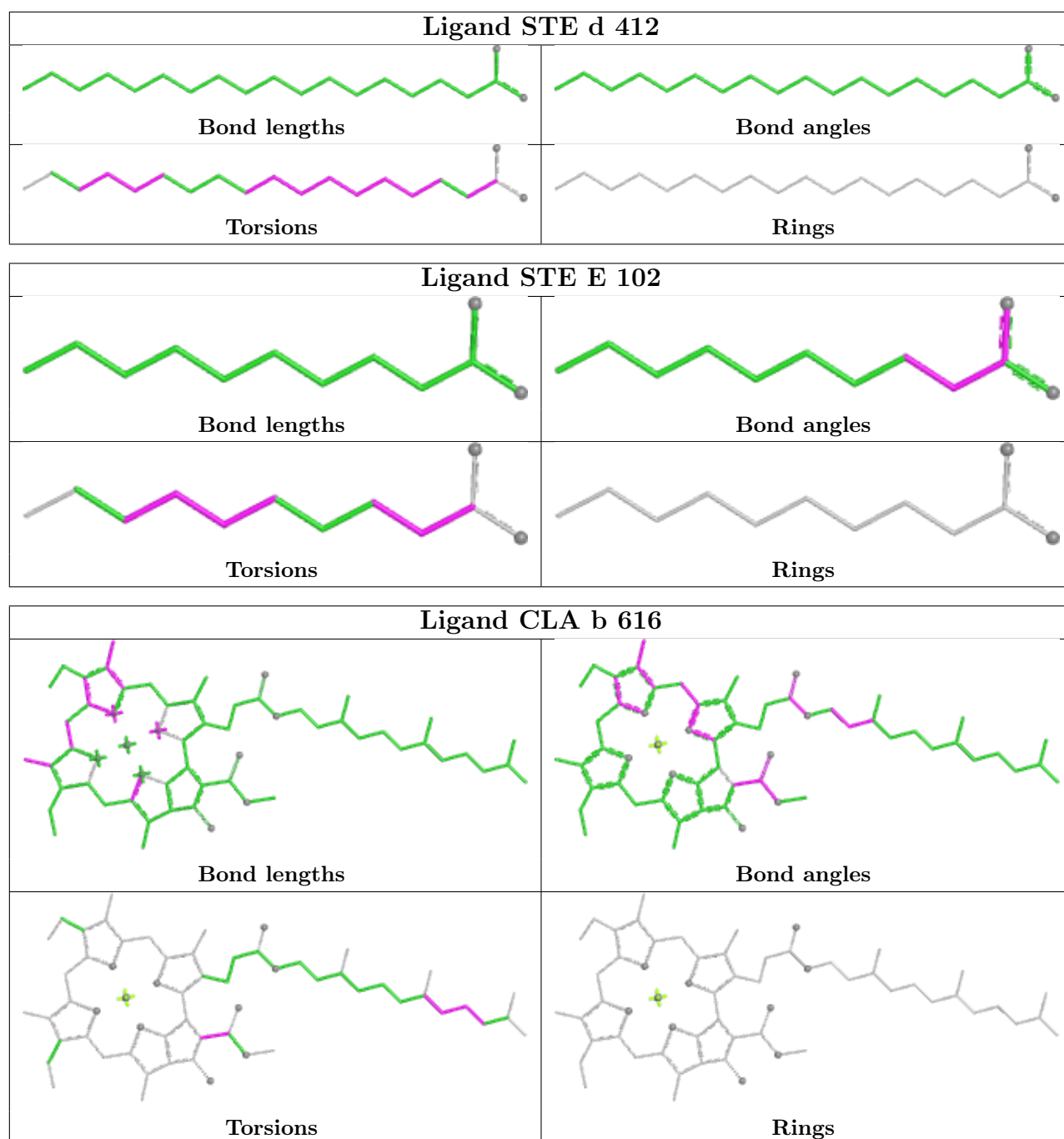


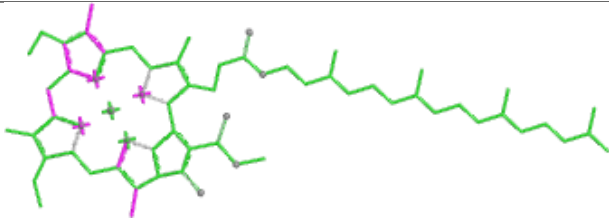
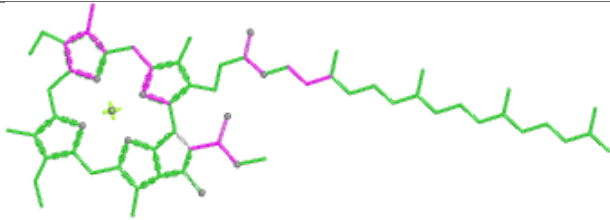
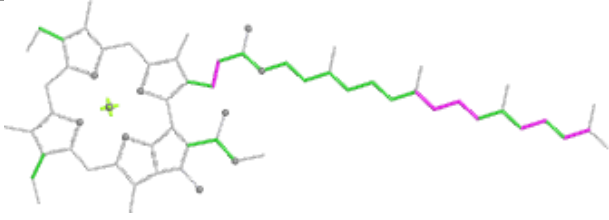
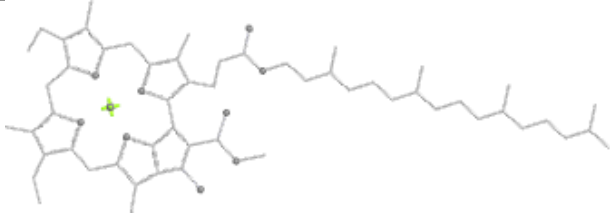
Ligand CLA c 506

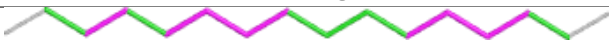


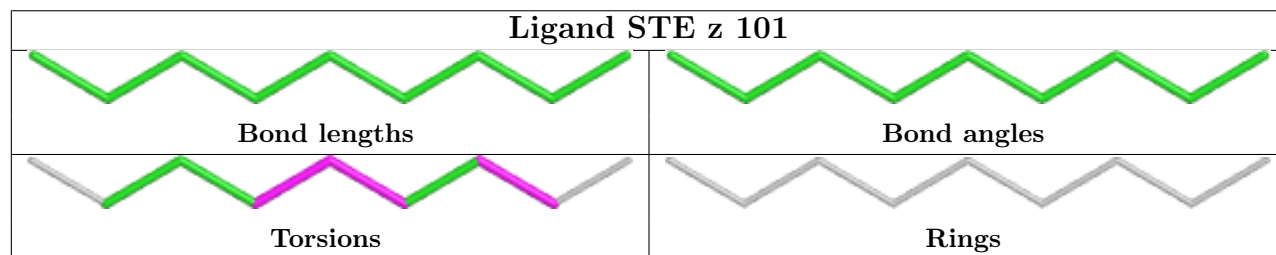
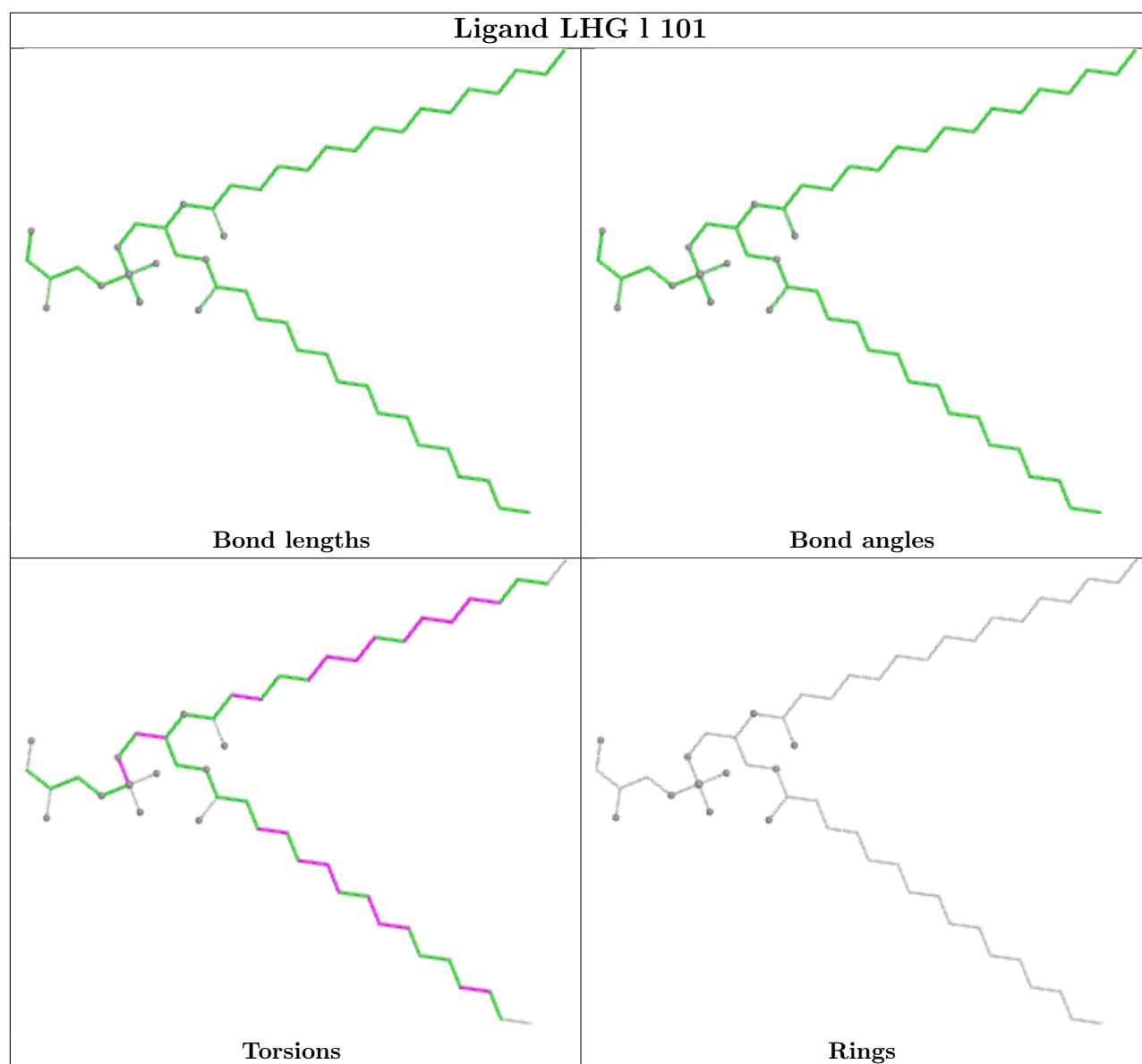


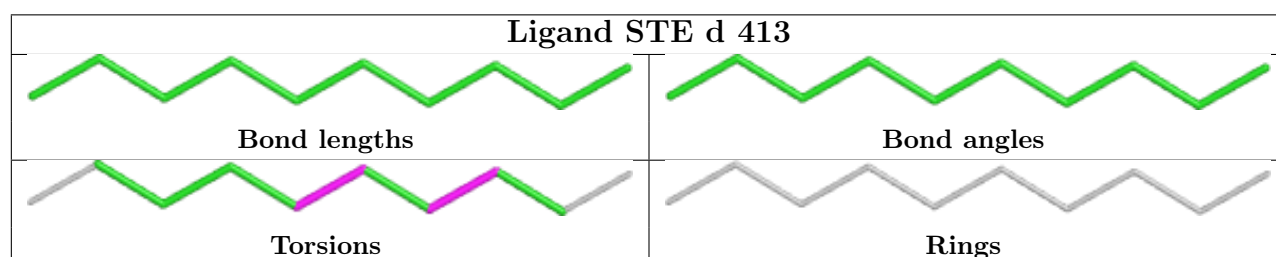
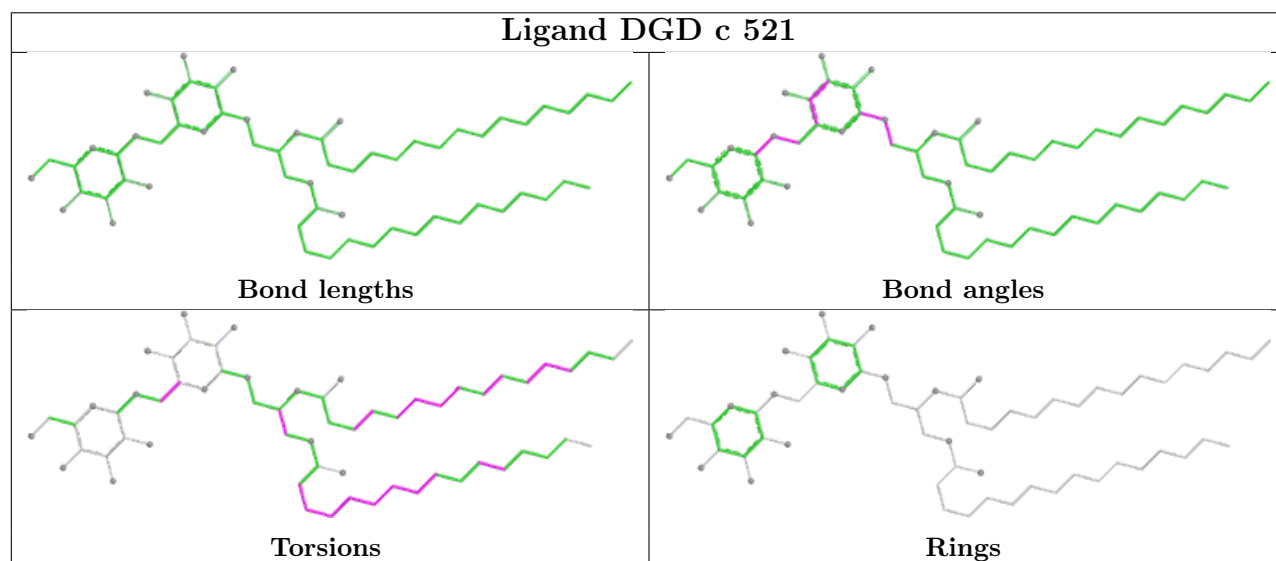
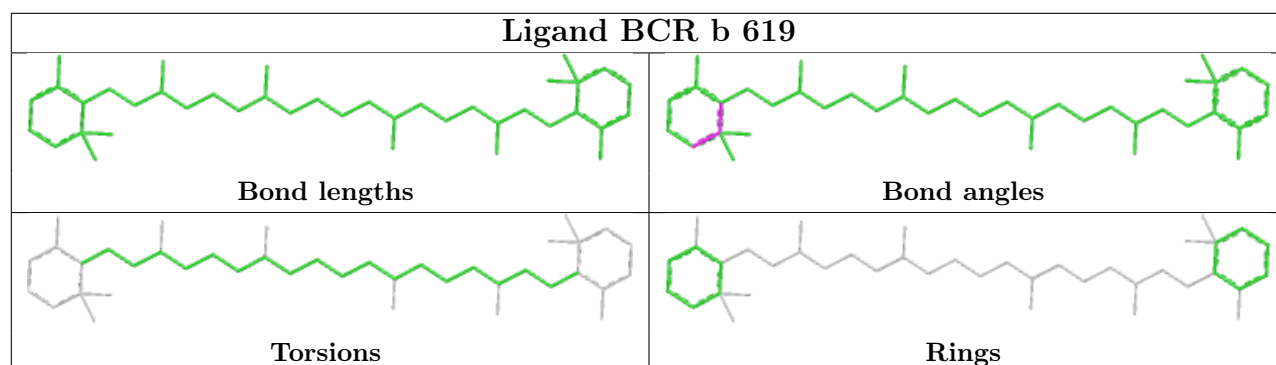
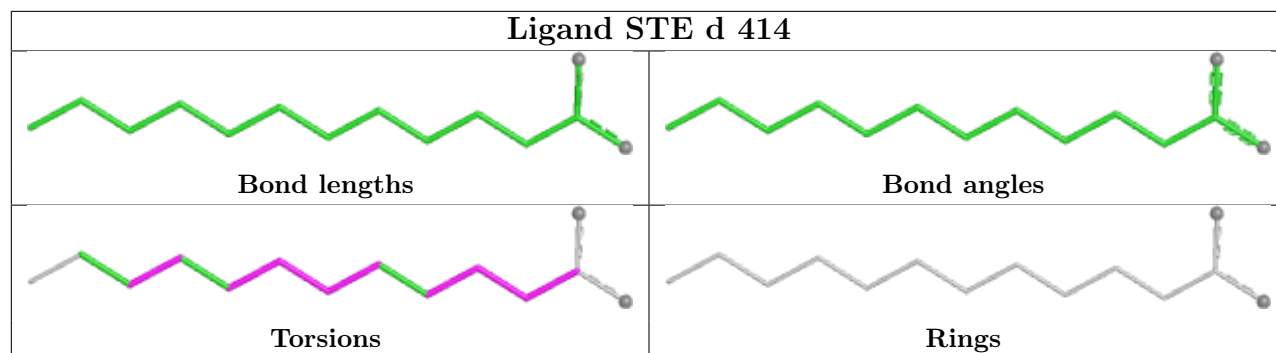


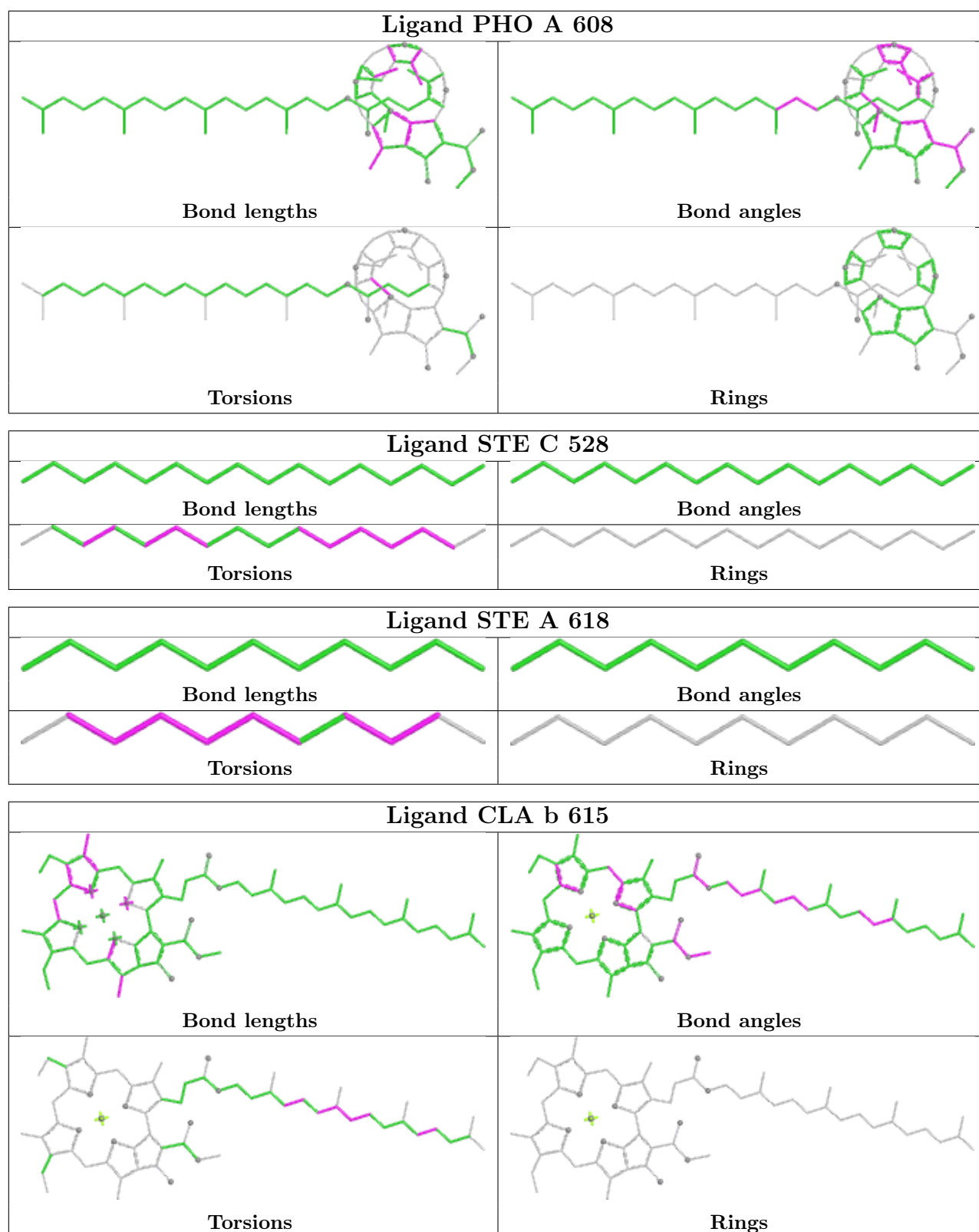


Ligand CLA C 512	
	
Bond lengths	Bond angles
	
Torsions	Rings

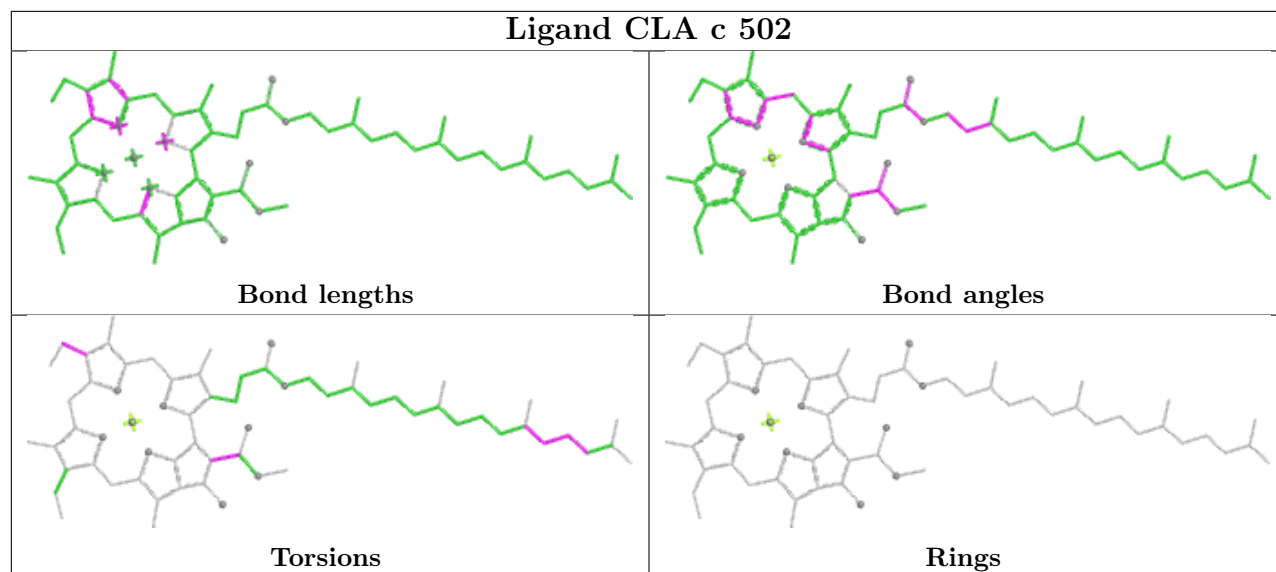
Ligand STE j 102	
	
Bond lengths	Bond angles
	
Torsions	Rings



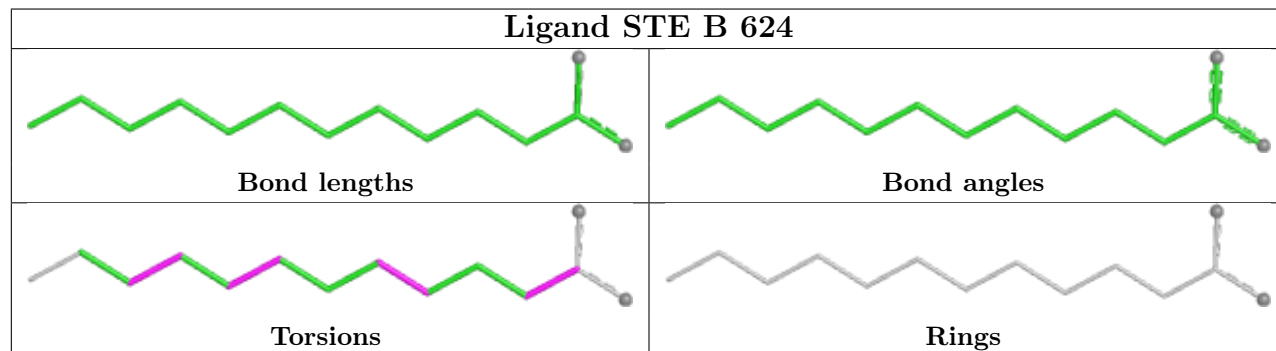




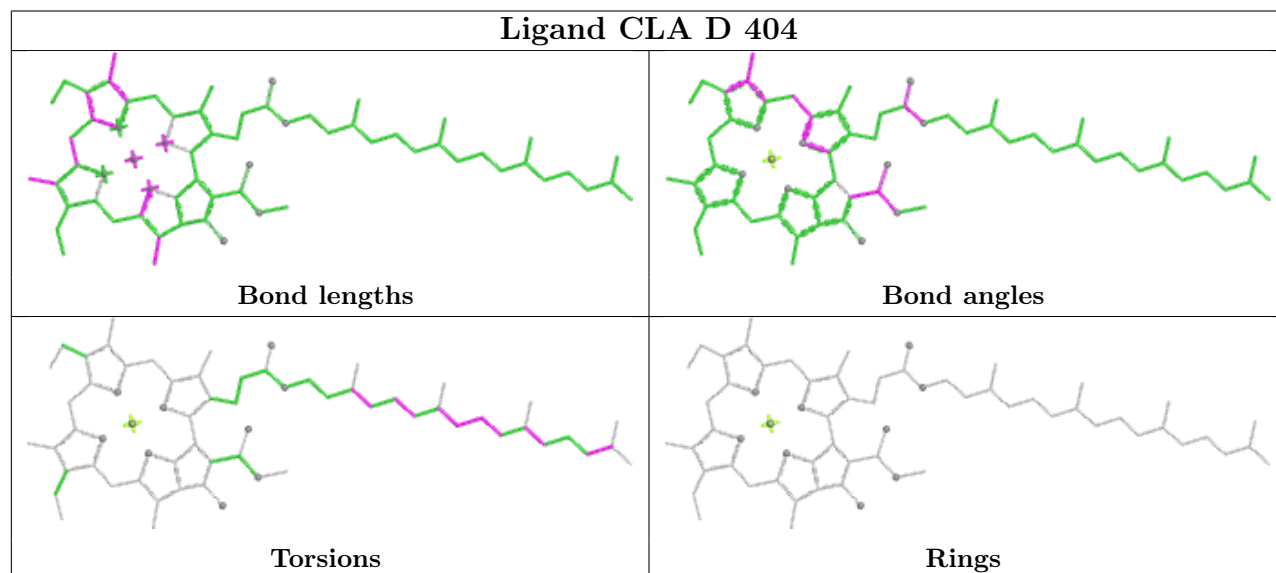
Ligand CLA c 502

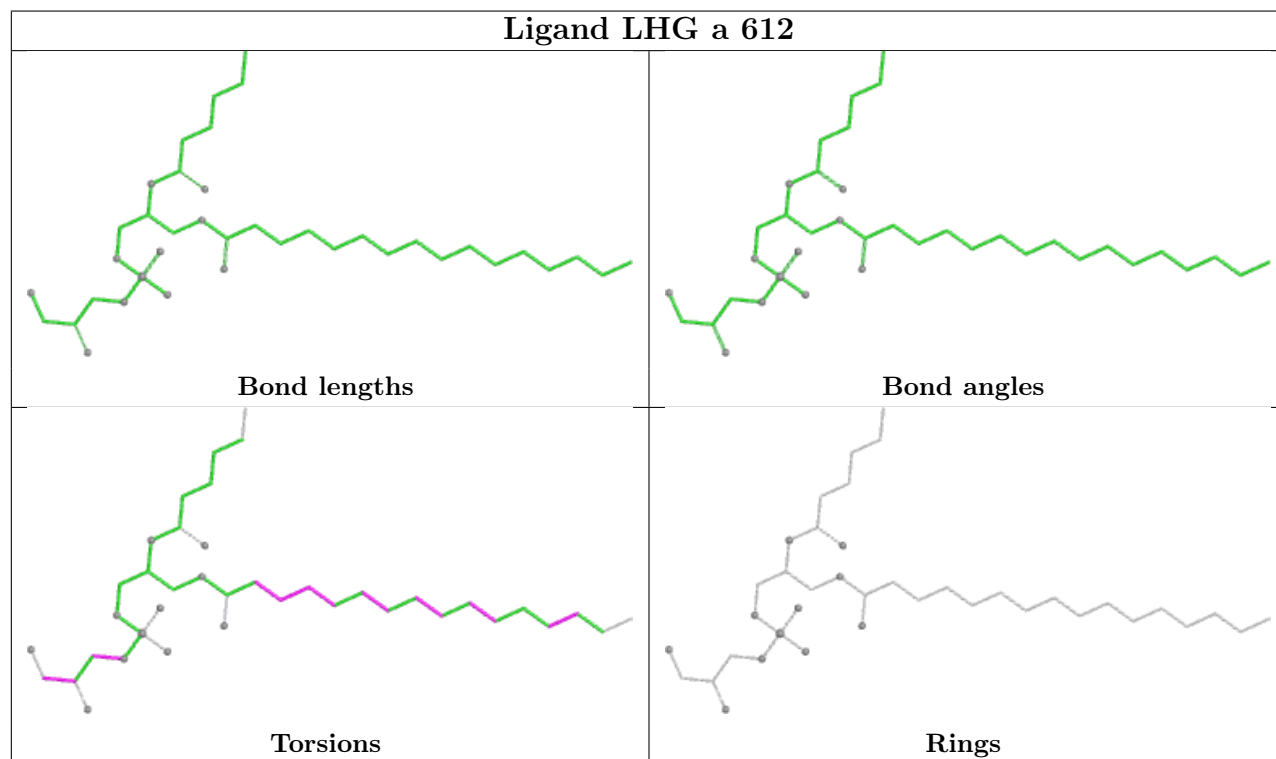
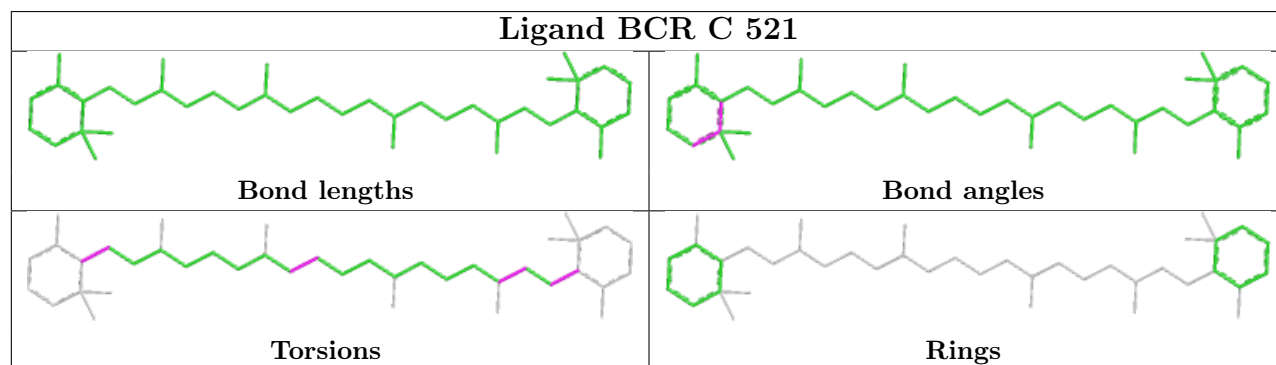
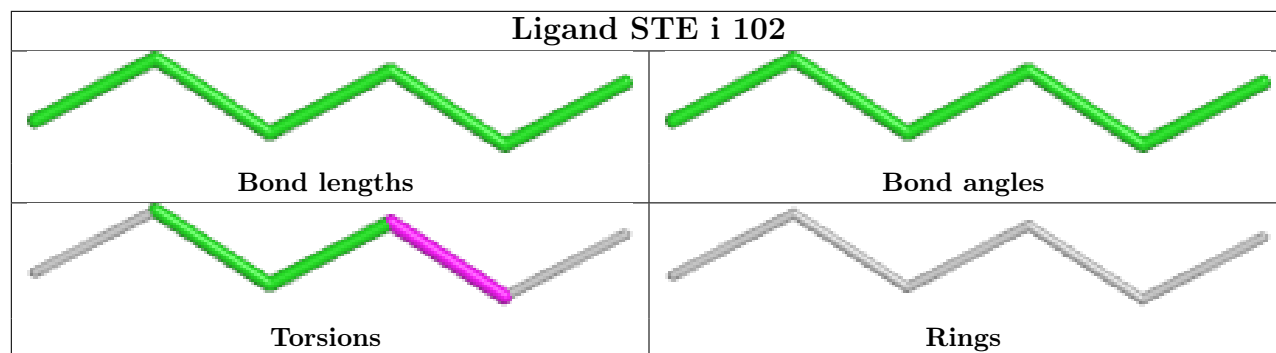


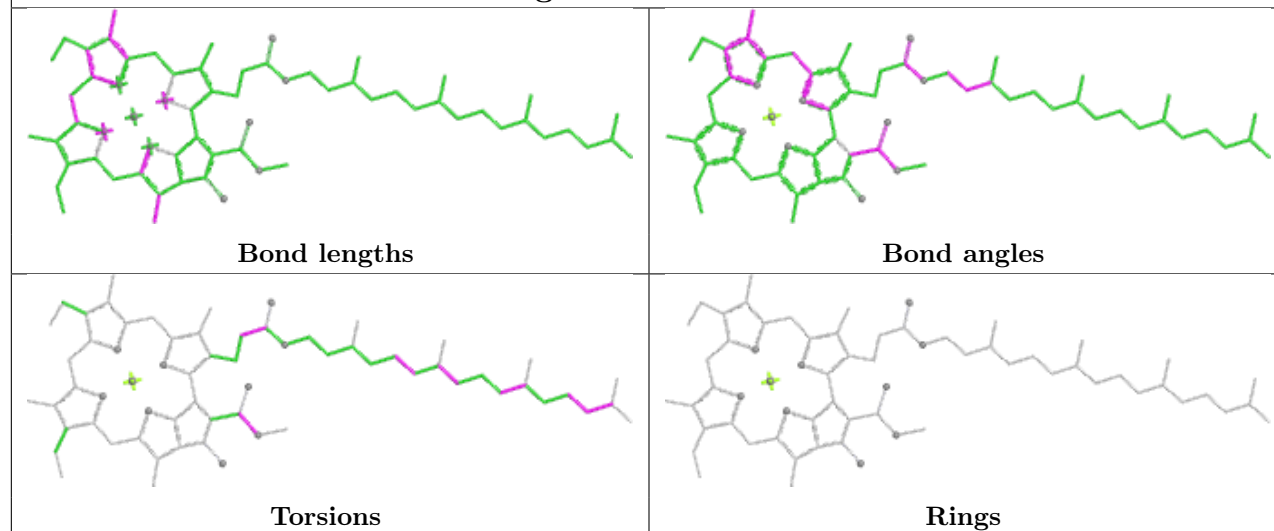
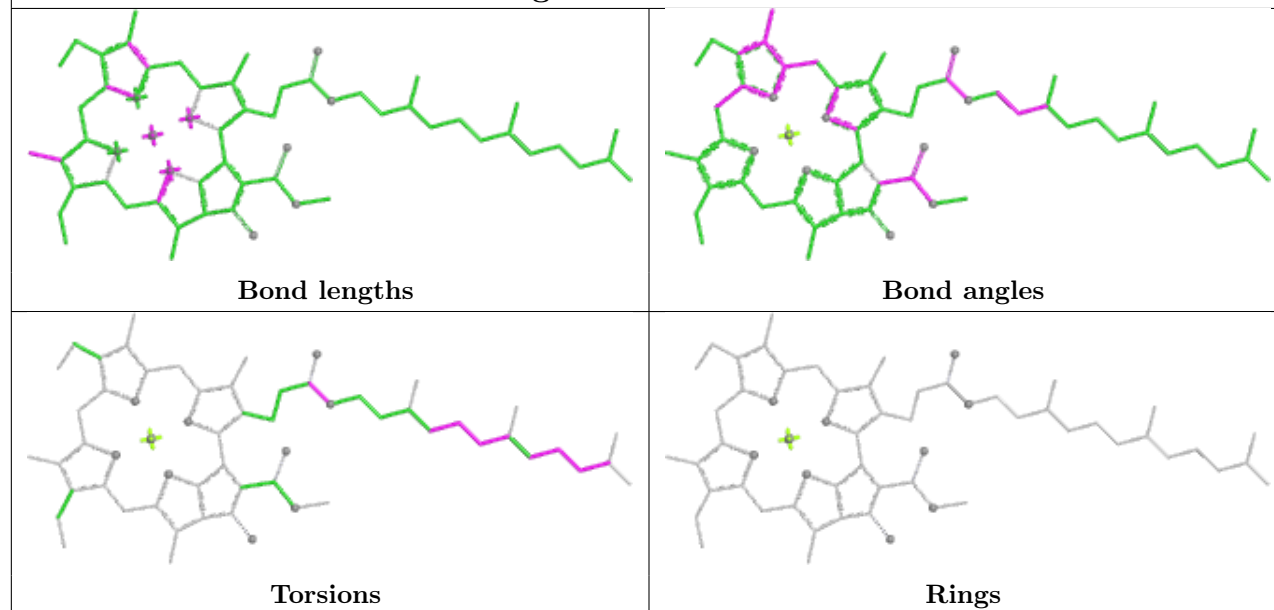
Ligand STE B 624

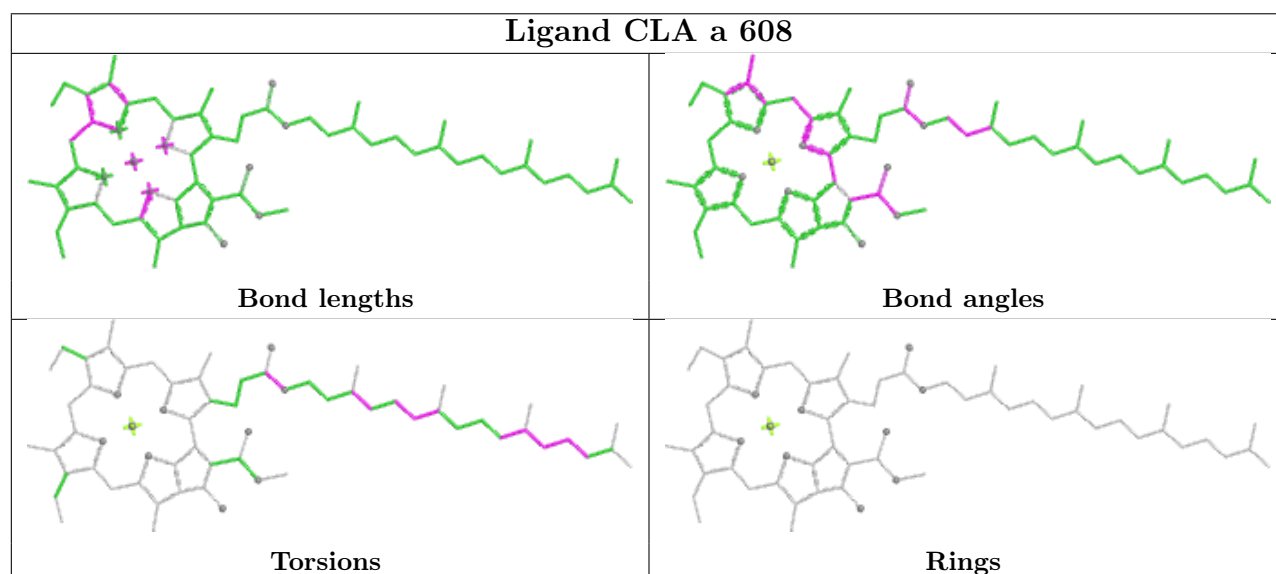
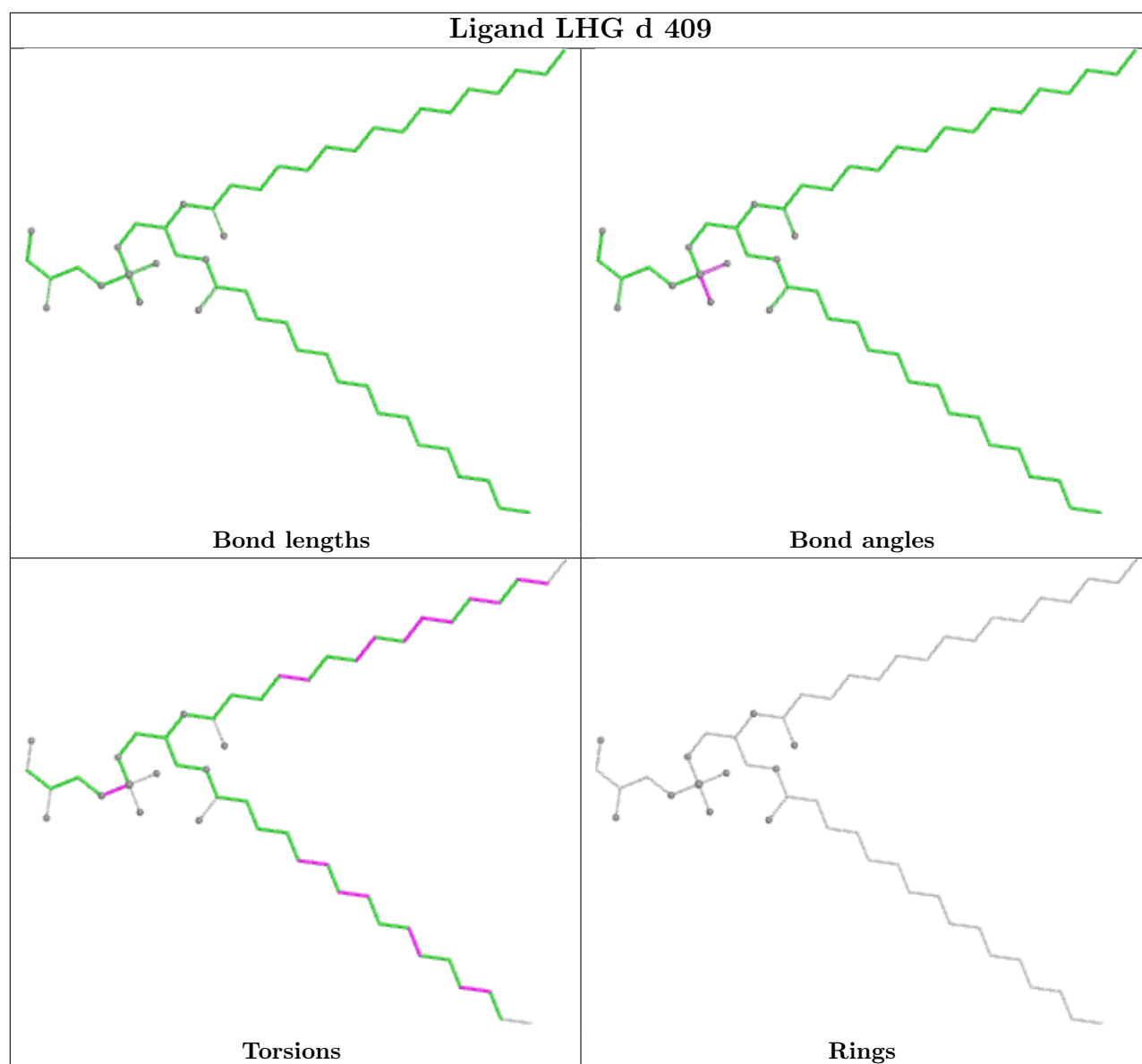


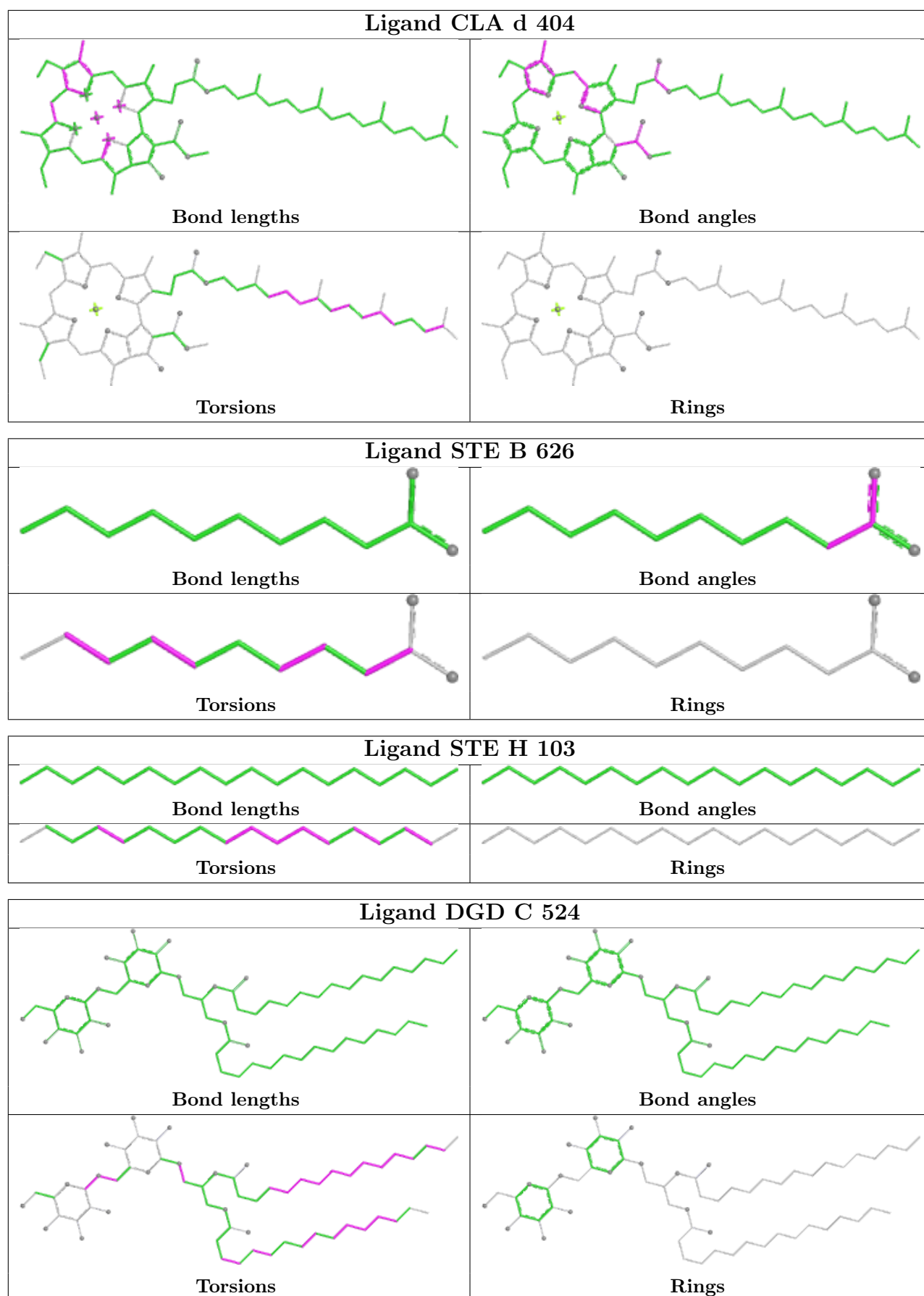
Ligand CLA D 404

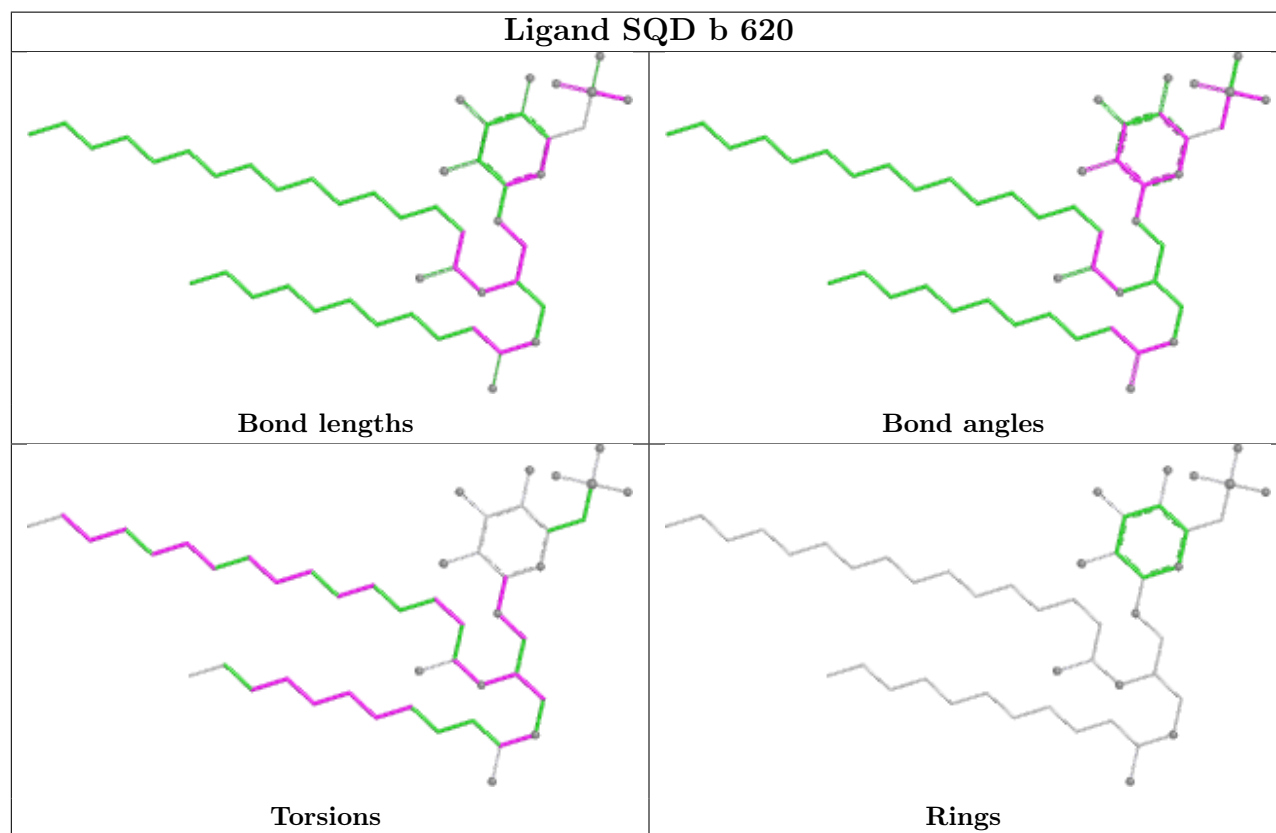
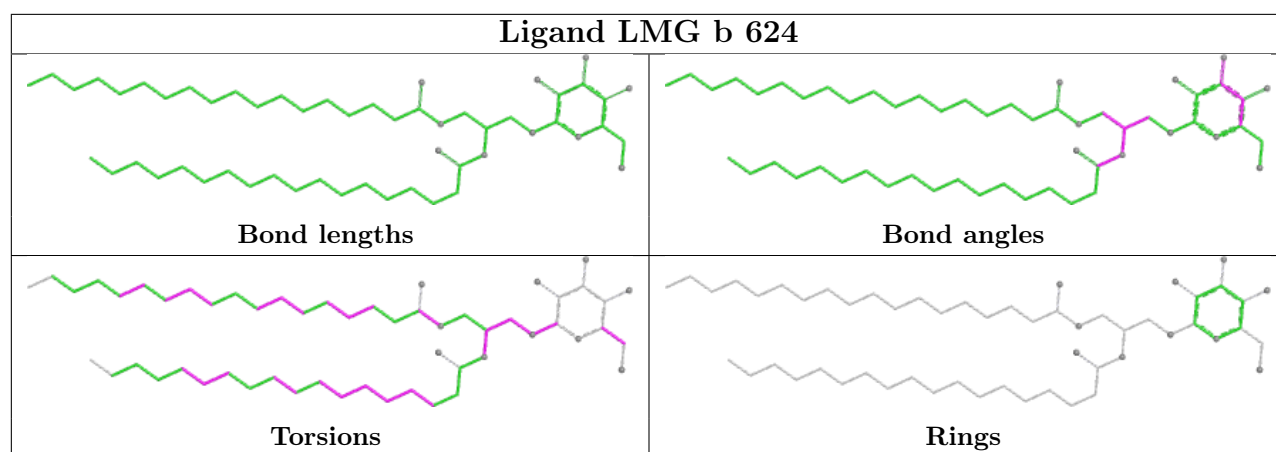




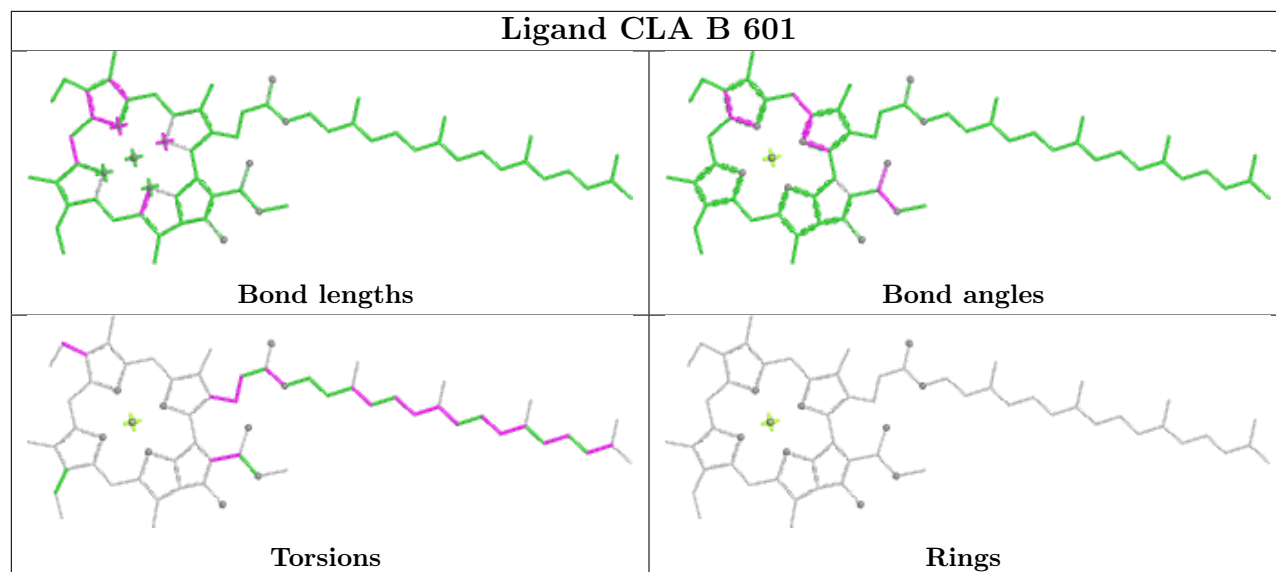
Ligand CLA b 613**Ligand CLA B 616**



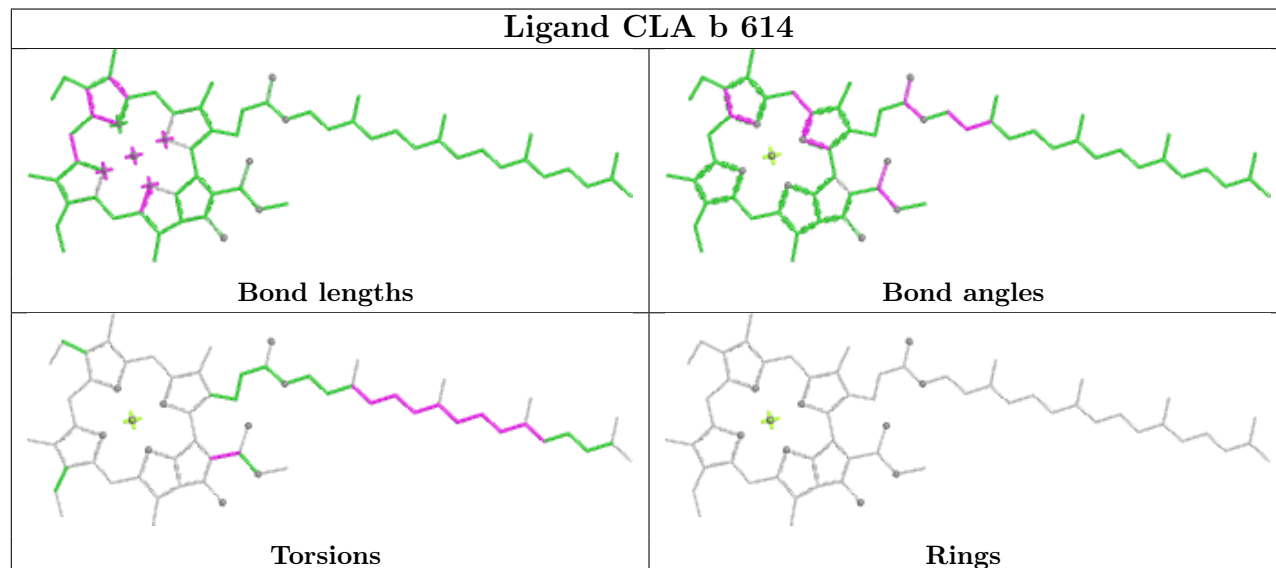




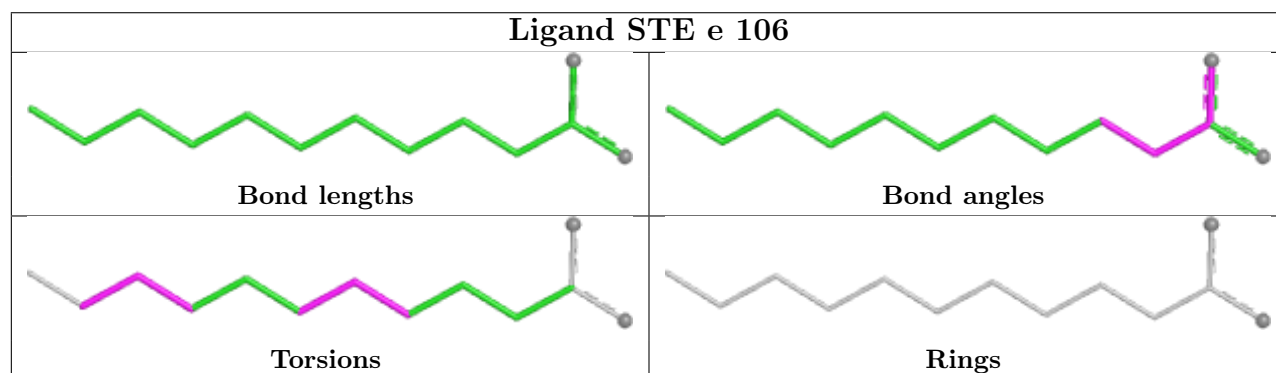
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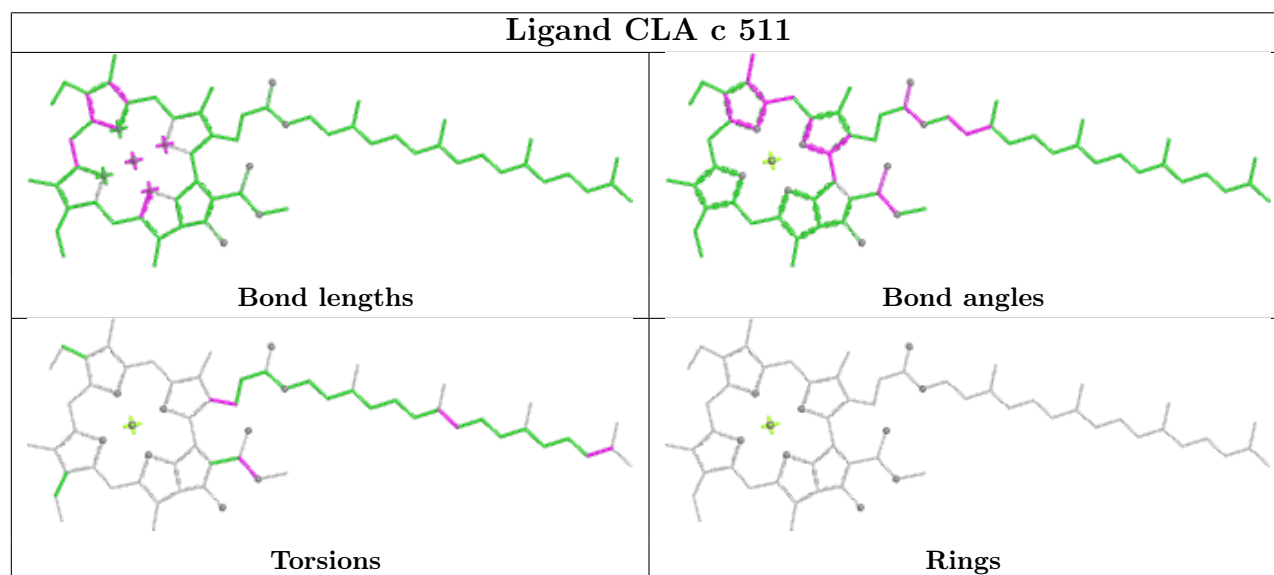
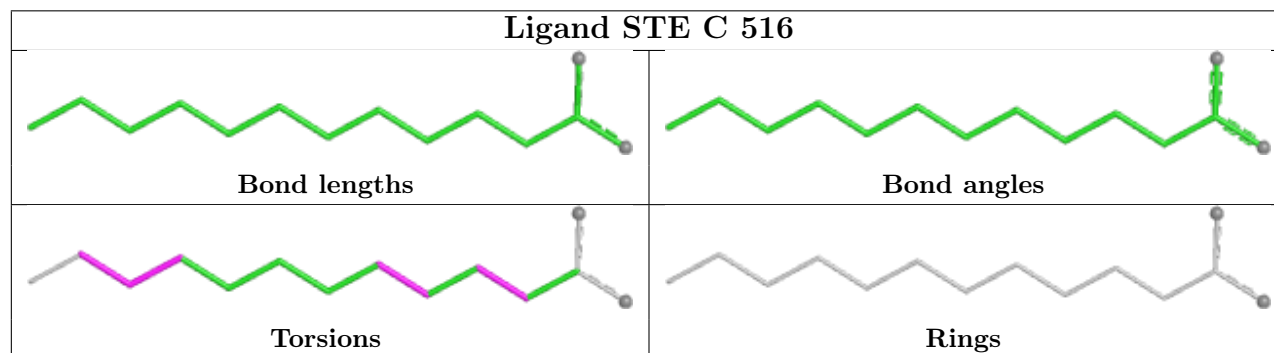
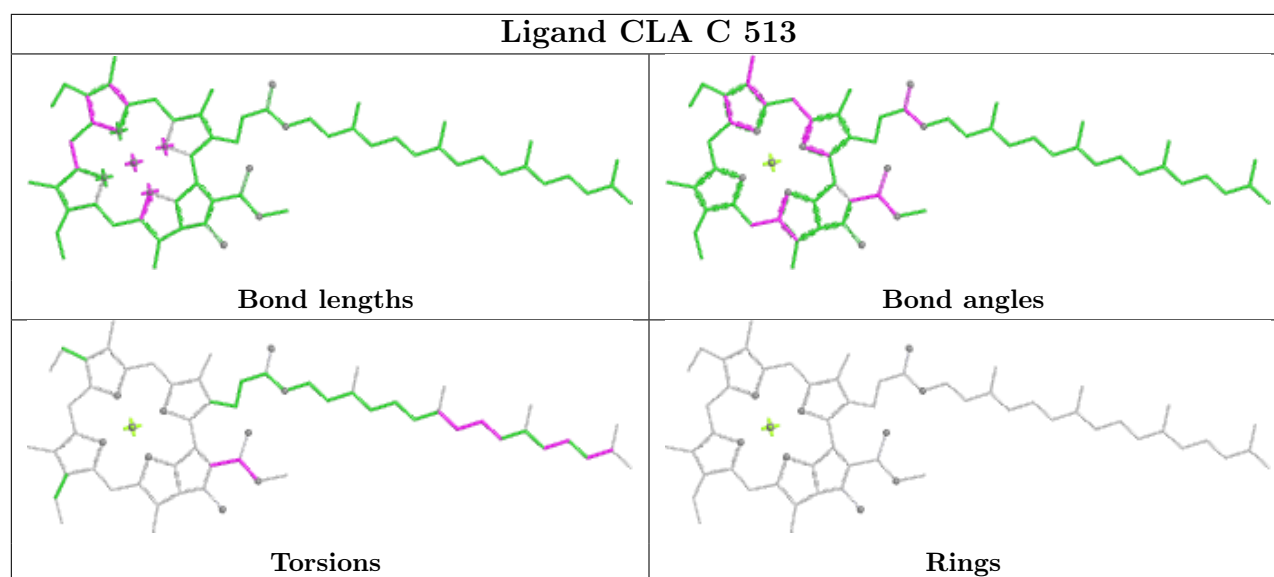


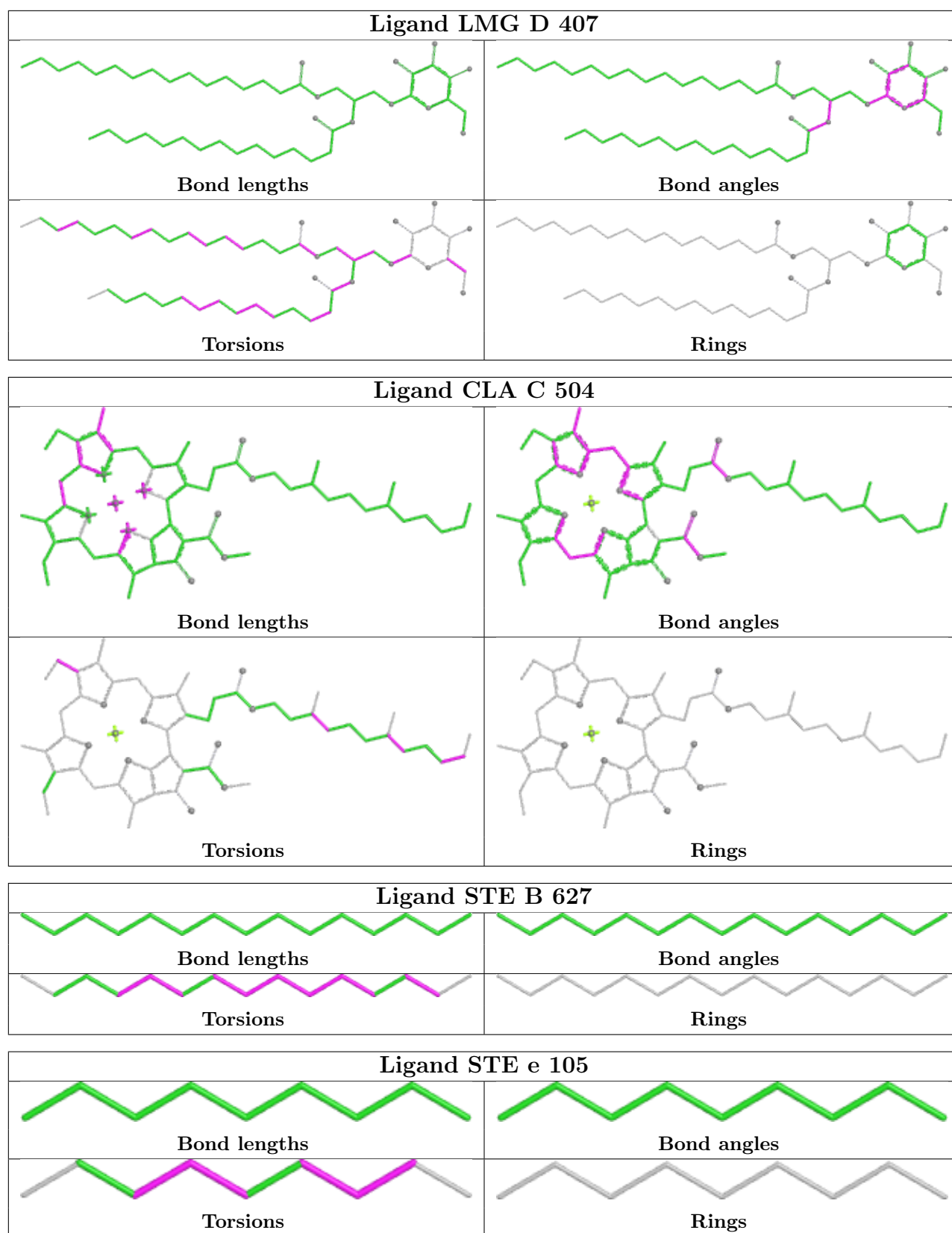
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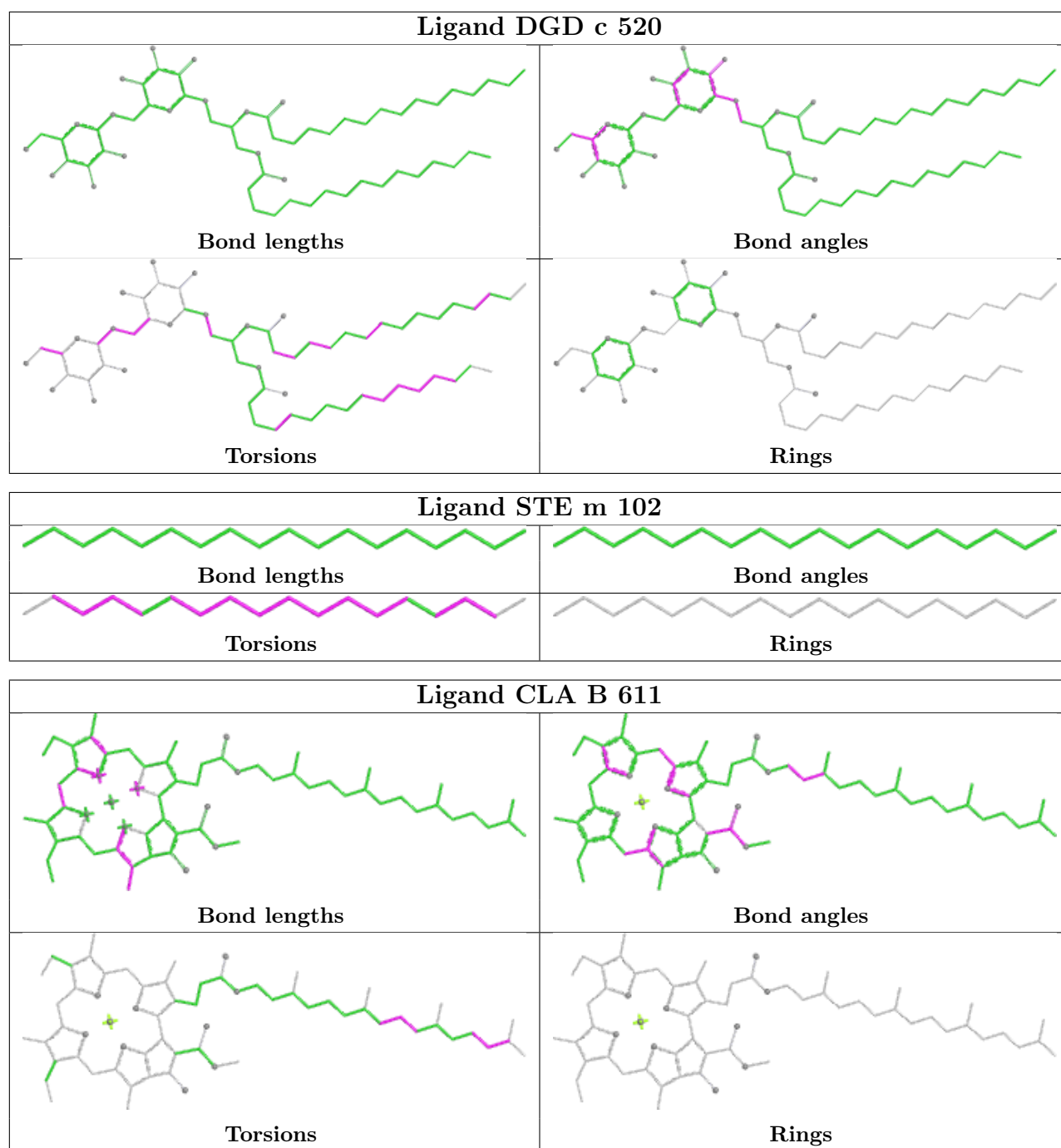


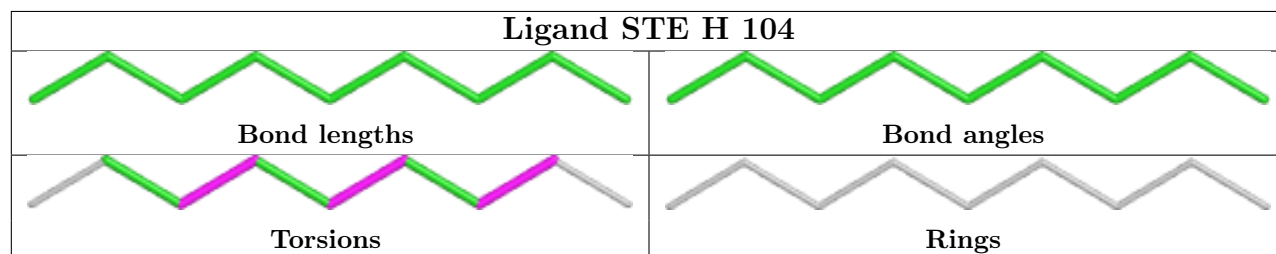
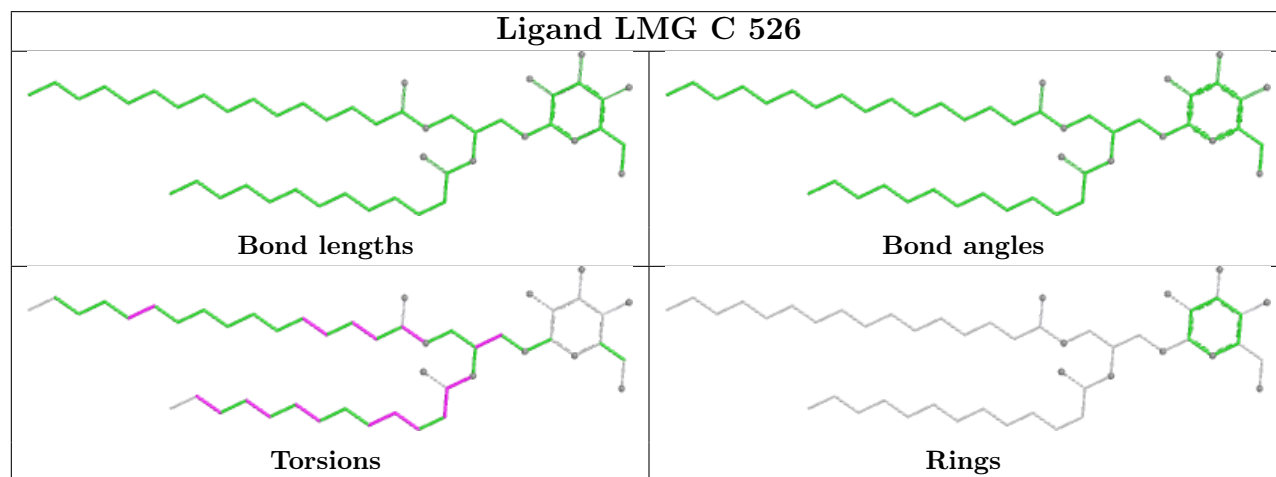
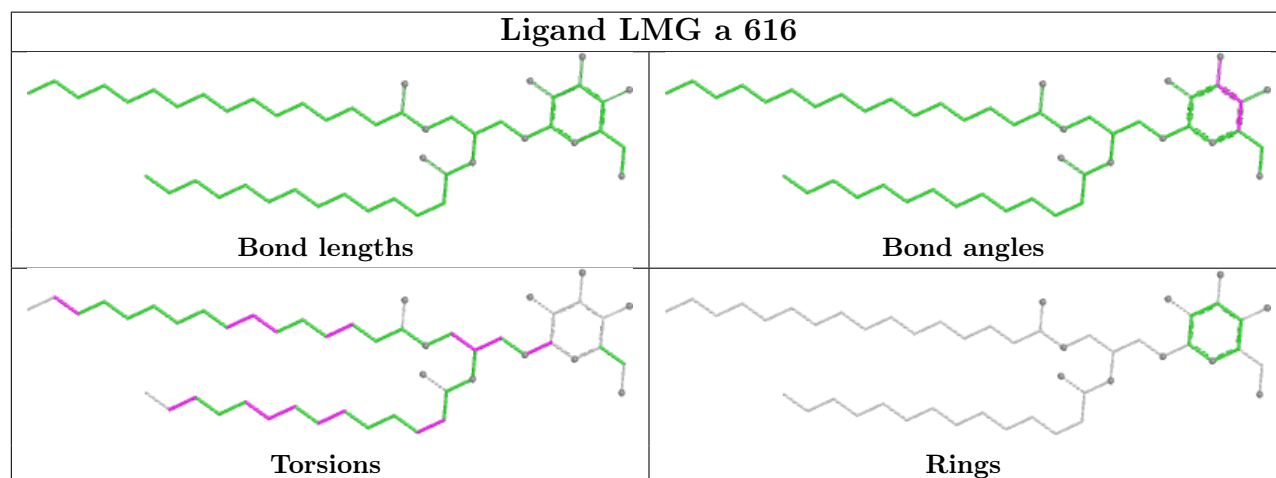
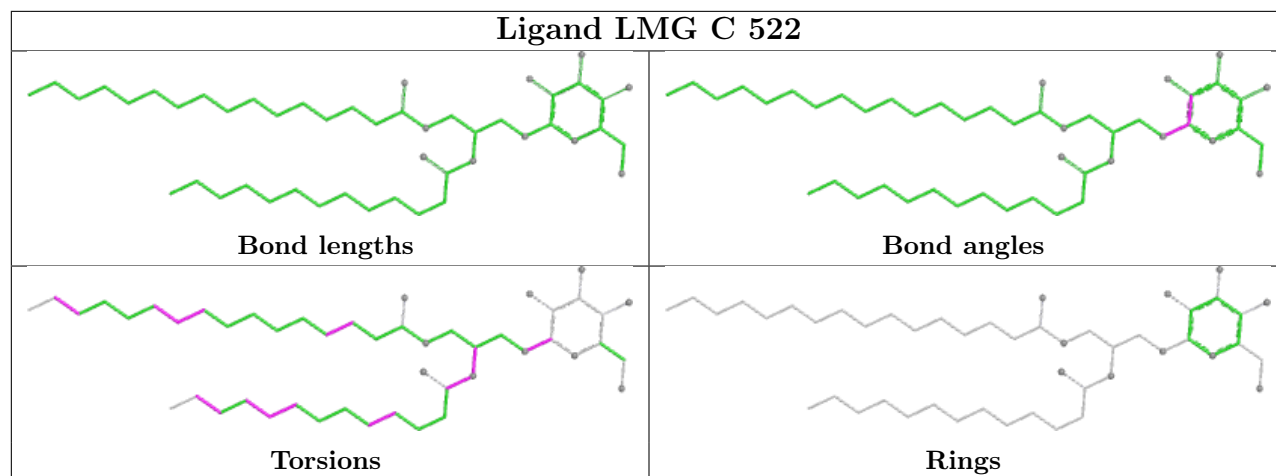
Ligand STE e 106

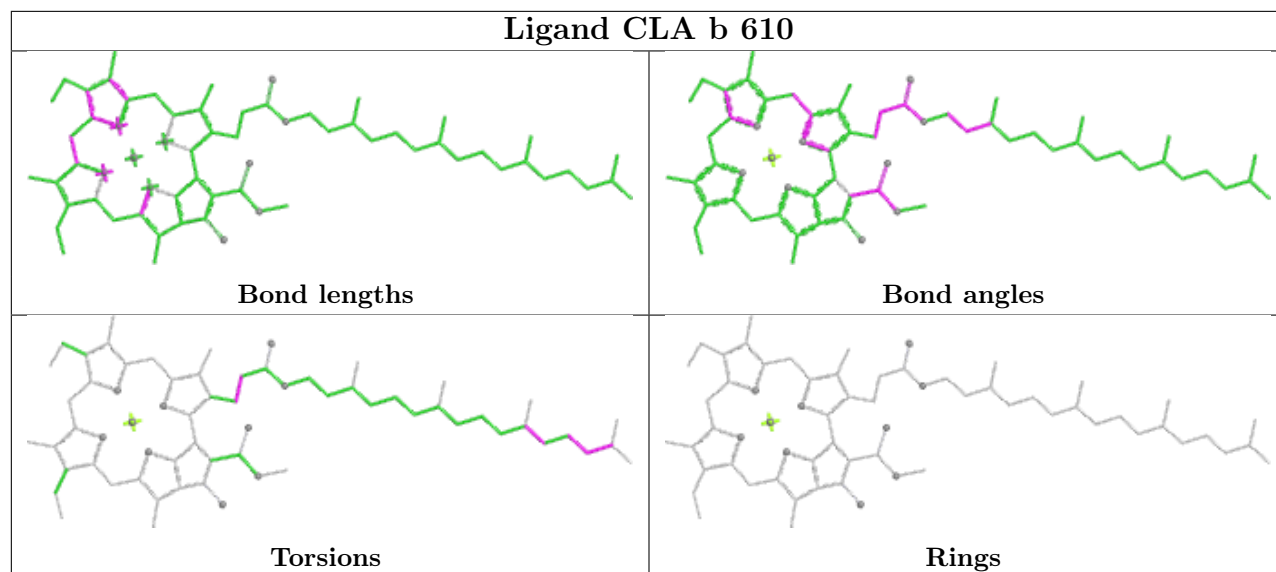
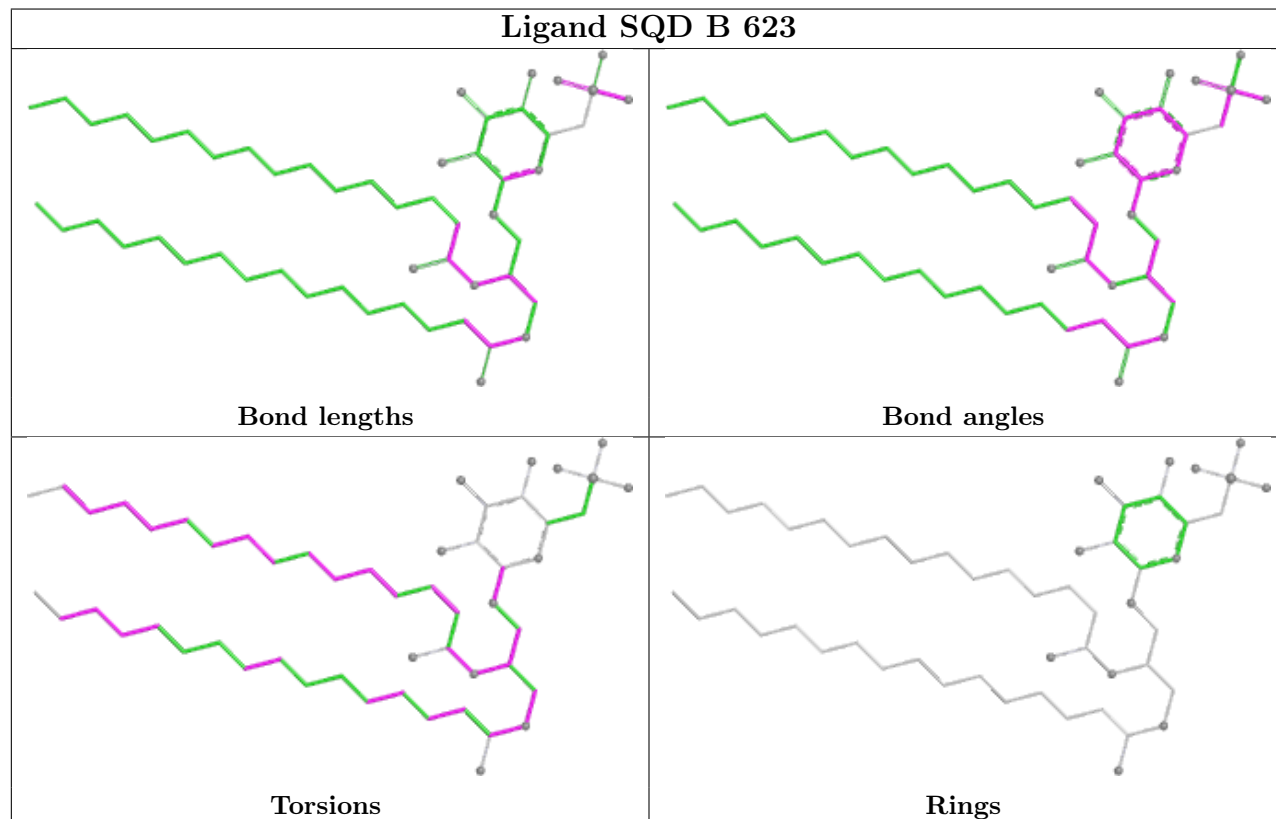


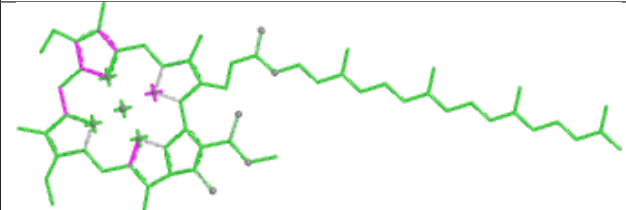
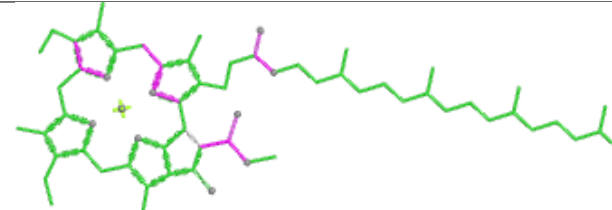
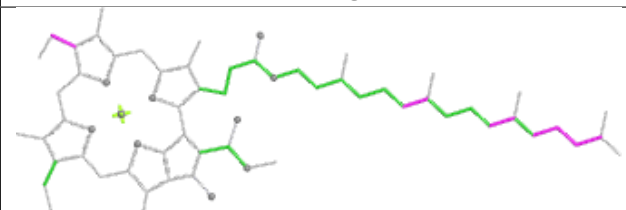
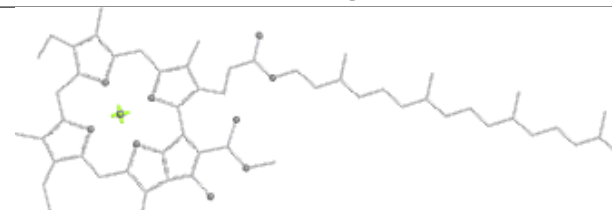


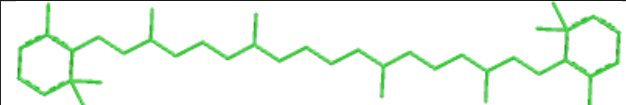
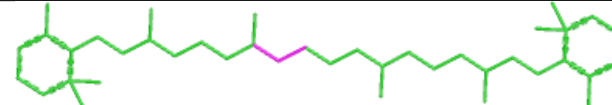
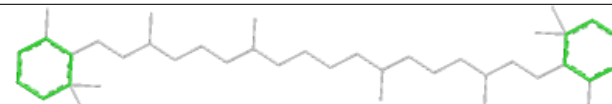


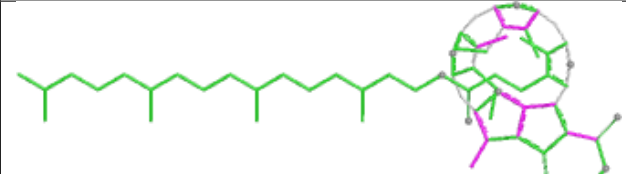
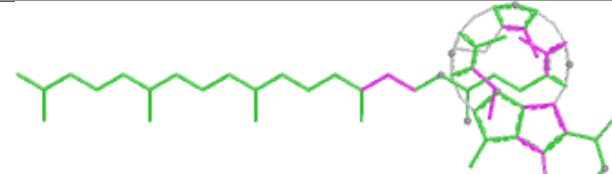
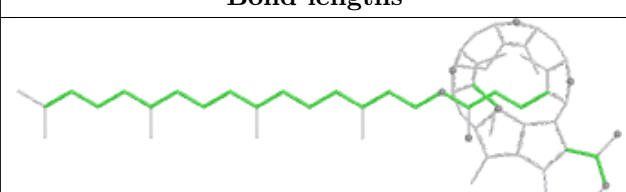
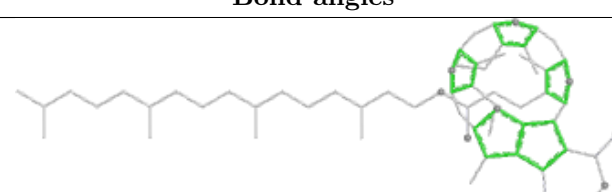


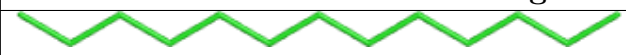
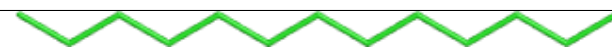


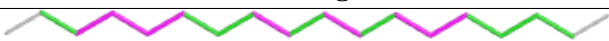
Ligand CLA b 610**Ligand SQD B 623**

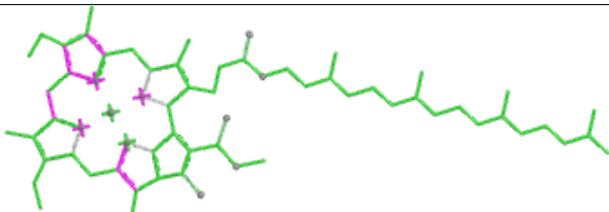
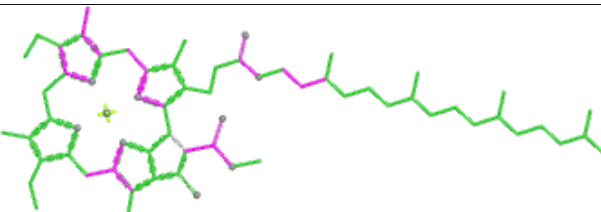
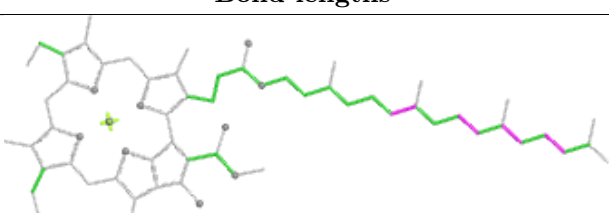
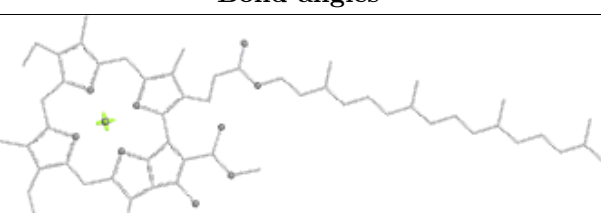
Ligand CLA A 606	
	
Bond lengths	Bond angles
	
Torsions	Rings

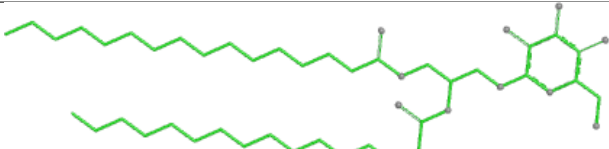
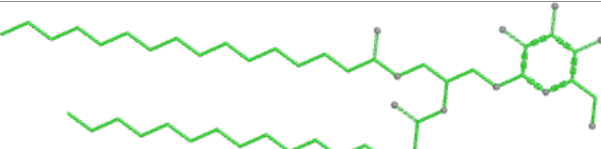
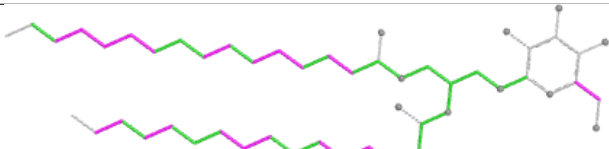
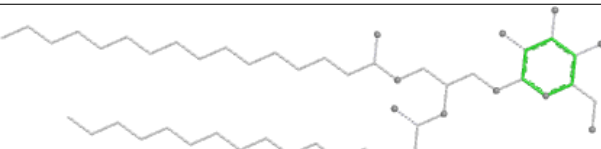
Ligand BCR b 618	
	
Bond lengths	Bond angles
	
Torsions	Rings

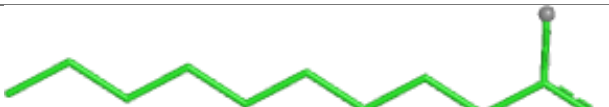
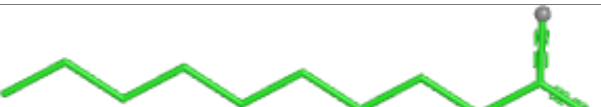
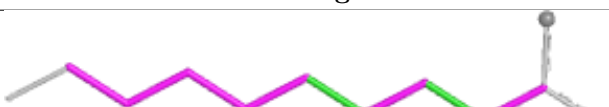
Ligand PHO A 607	
	
Bond lengths	Bond angles
	
Torsions	Rings

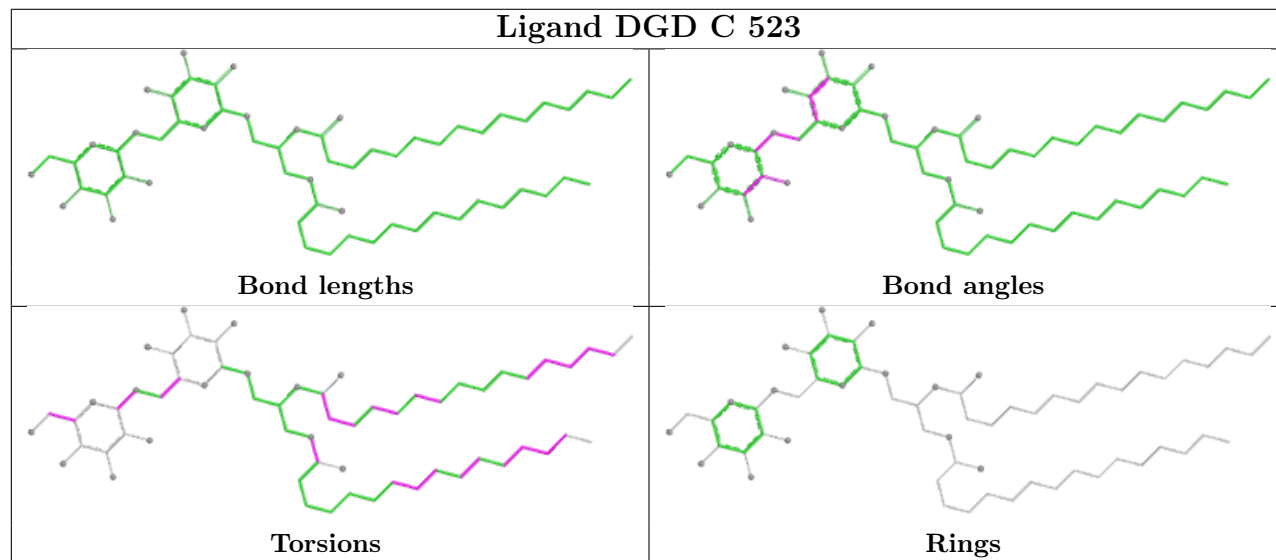
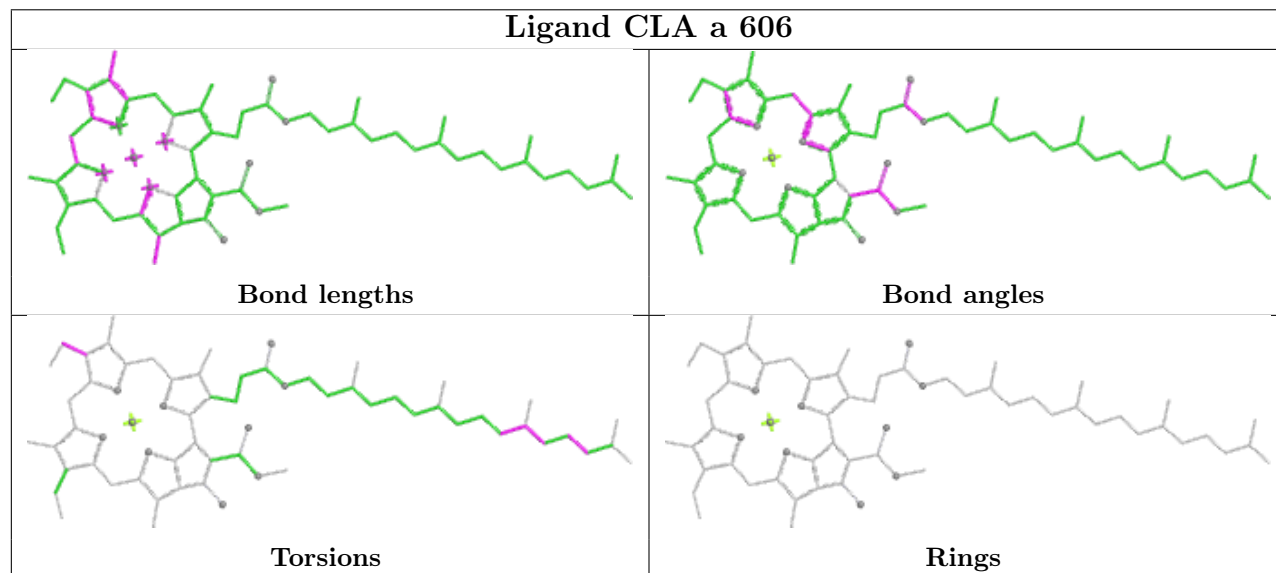
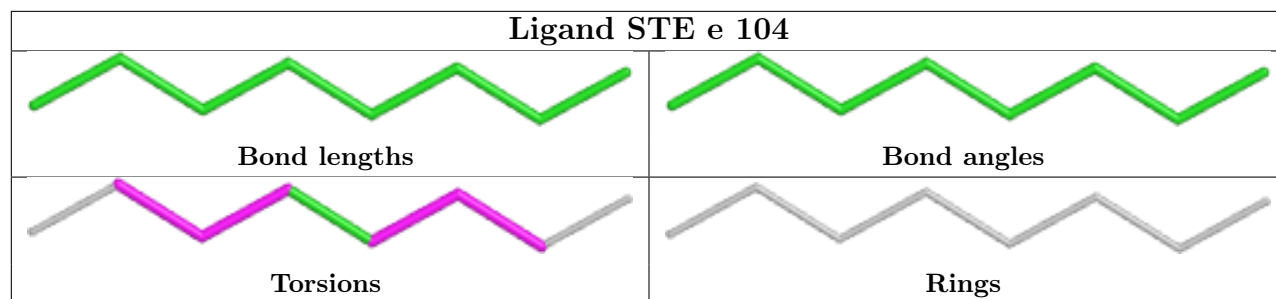
Ligand STE c 516	
	
Bond lengths	Bond angles
	
Torsions	Rings

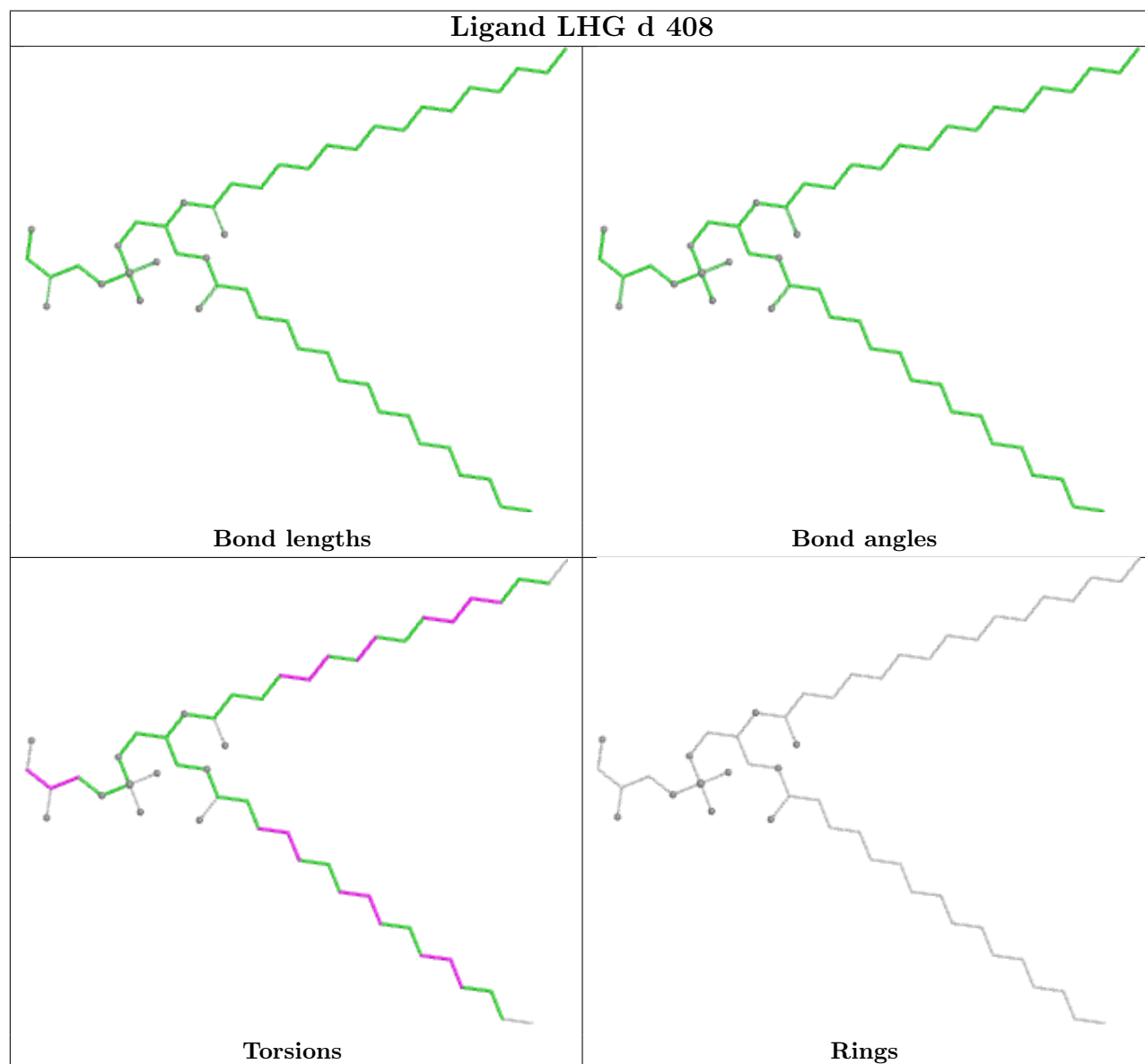
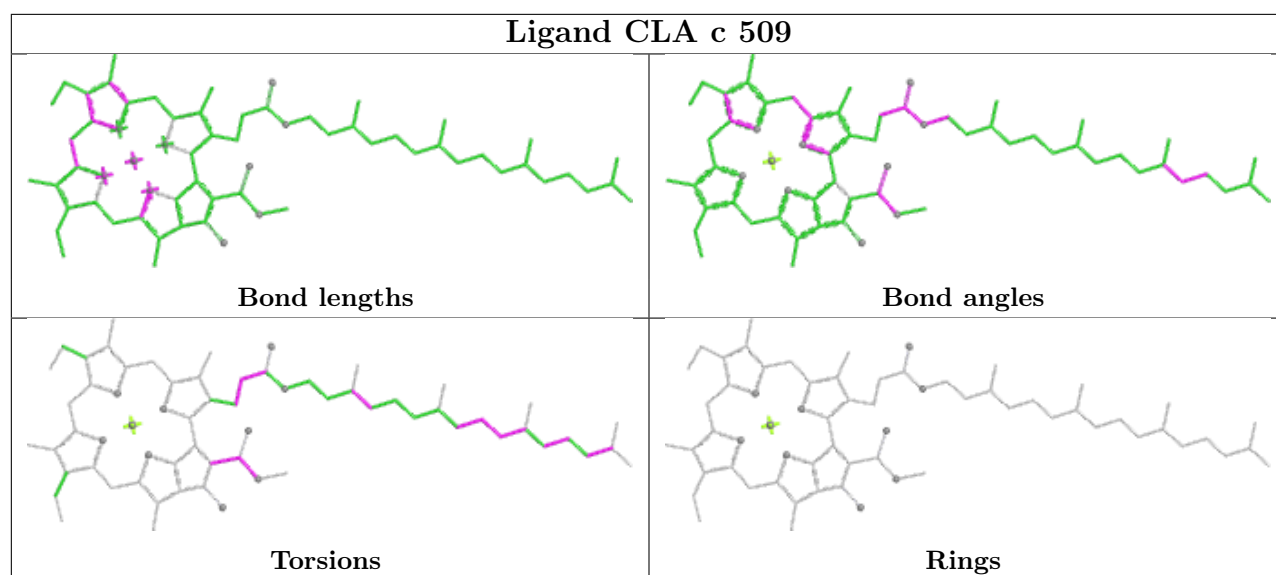
Ligand STE c 517	
 Bond lengths	 Bond angles
 Torsions	 Rings

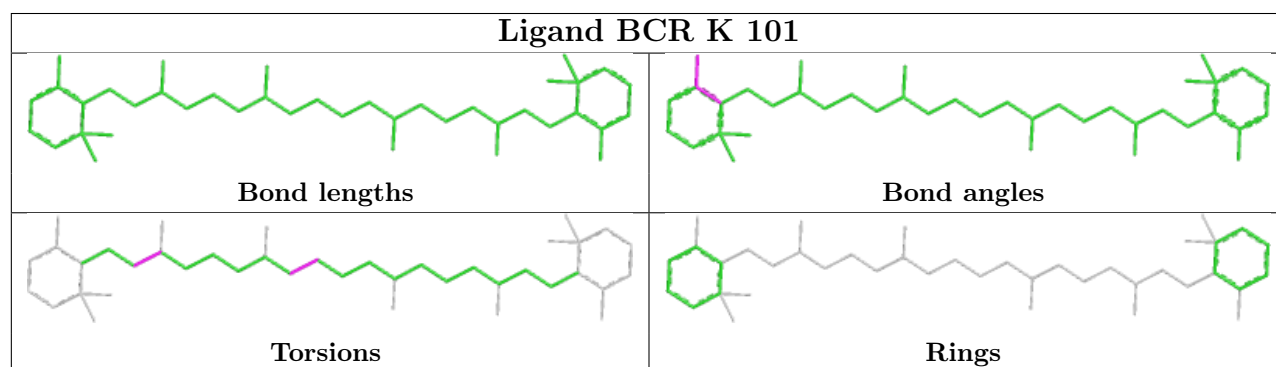
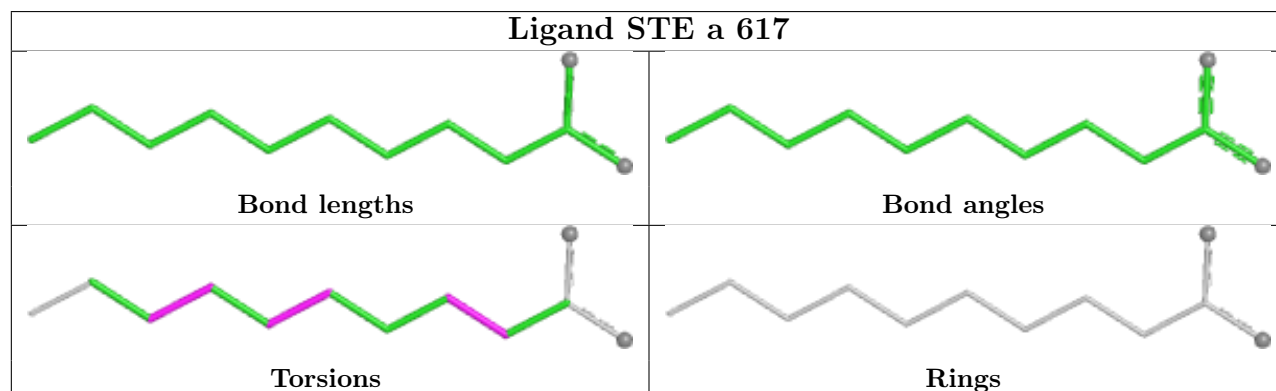
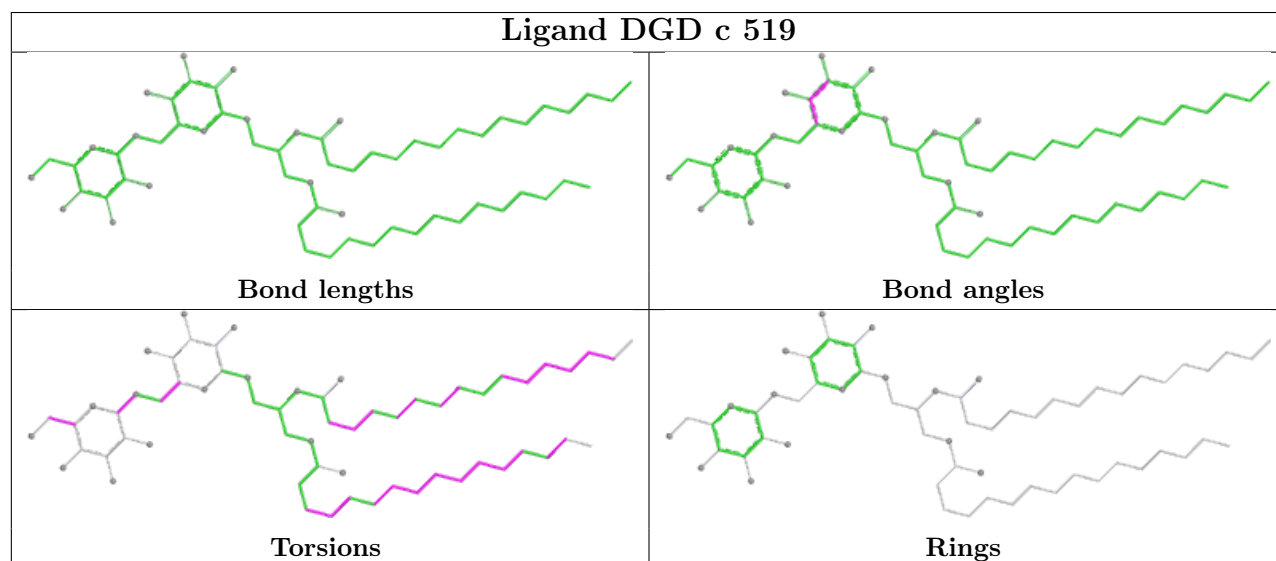
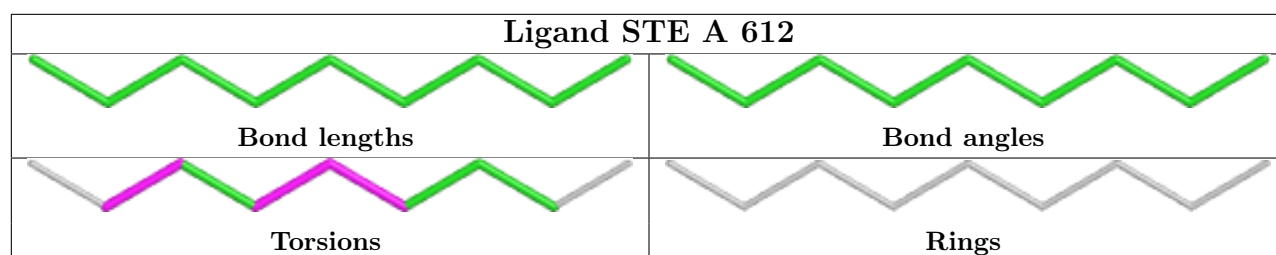
Ligand CLA C 508	
 Bond lengths	 Bond angles
 Torsions	 Rings

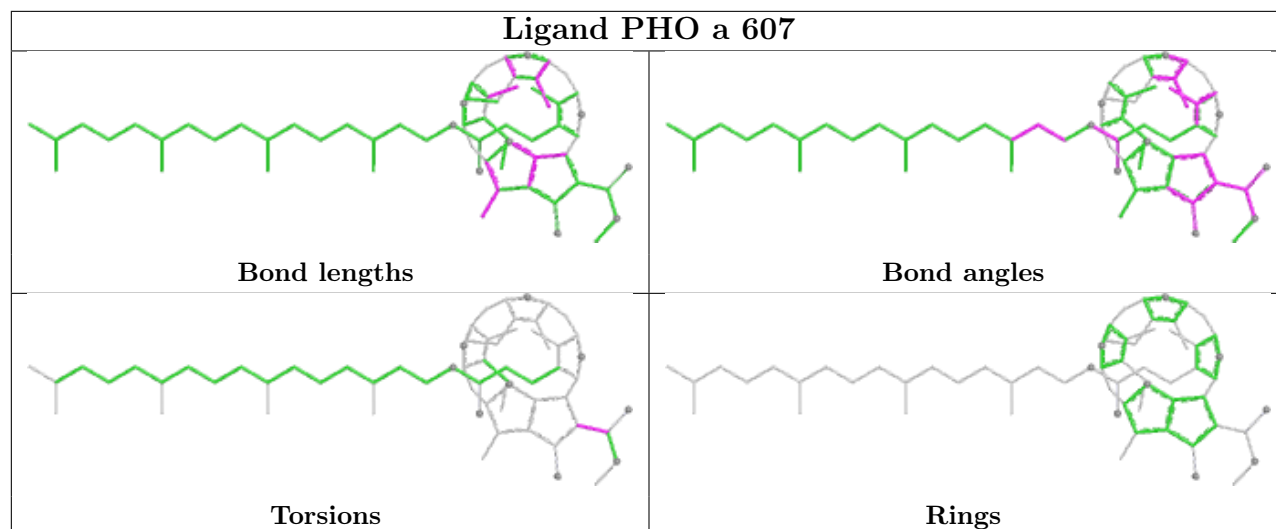
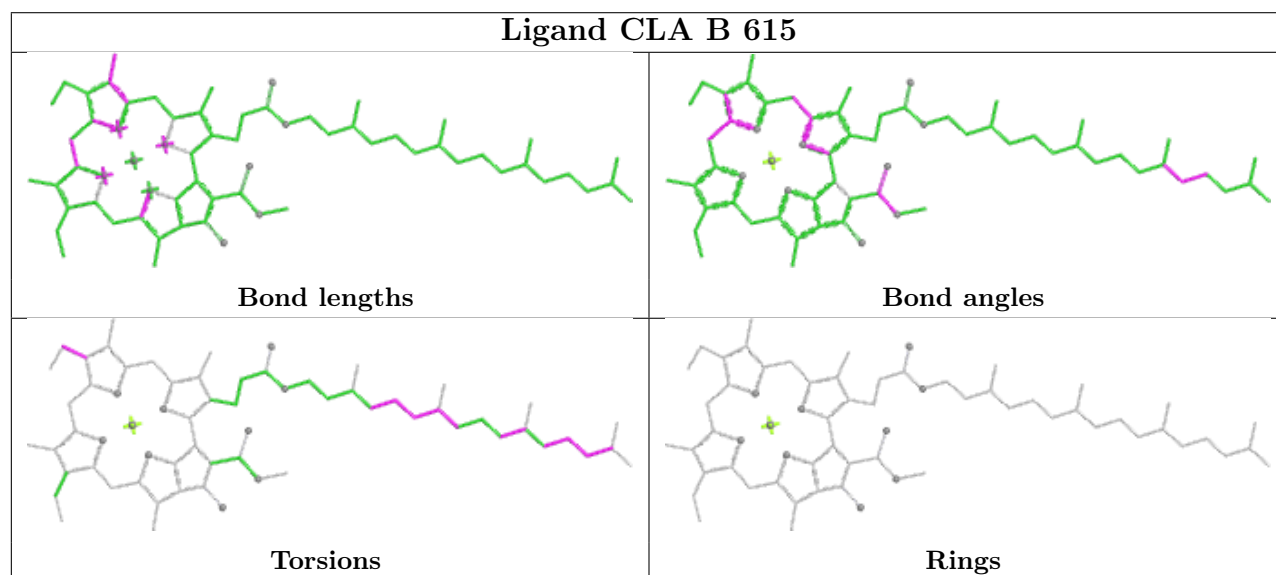
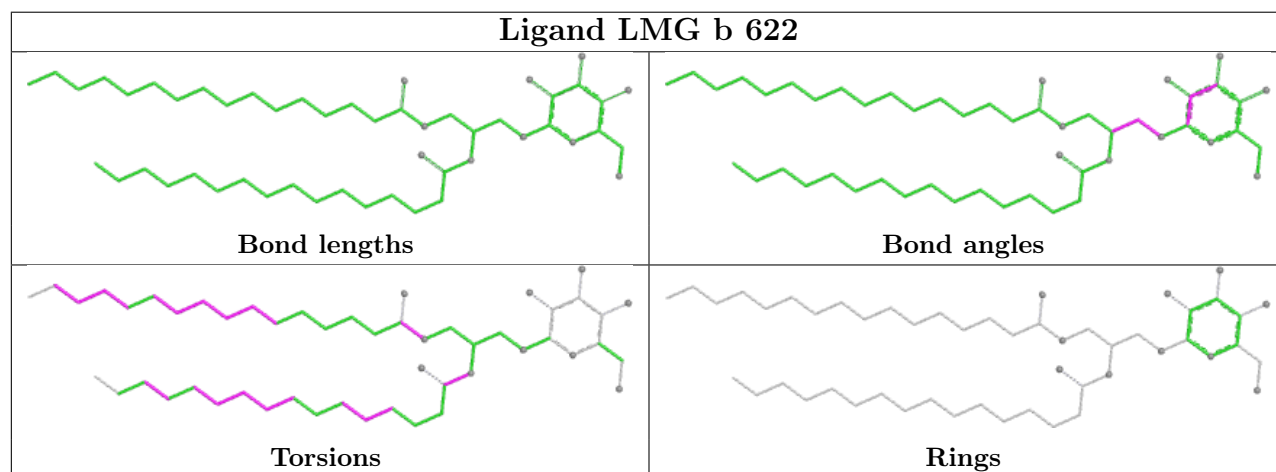
Ligand LMG D 408	
 Bond lengths	 Bond angles
 Torsions	 Rings

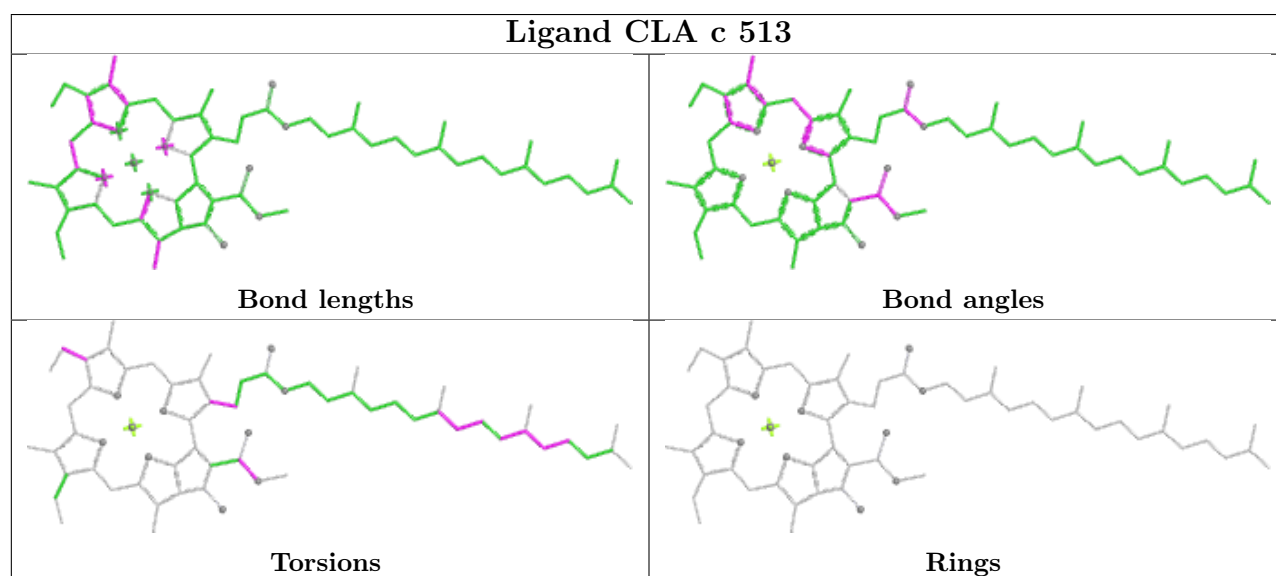
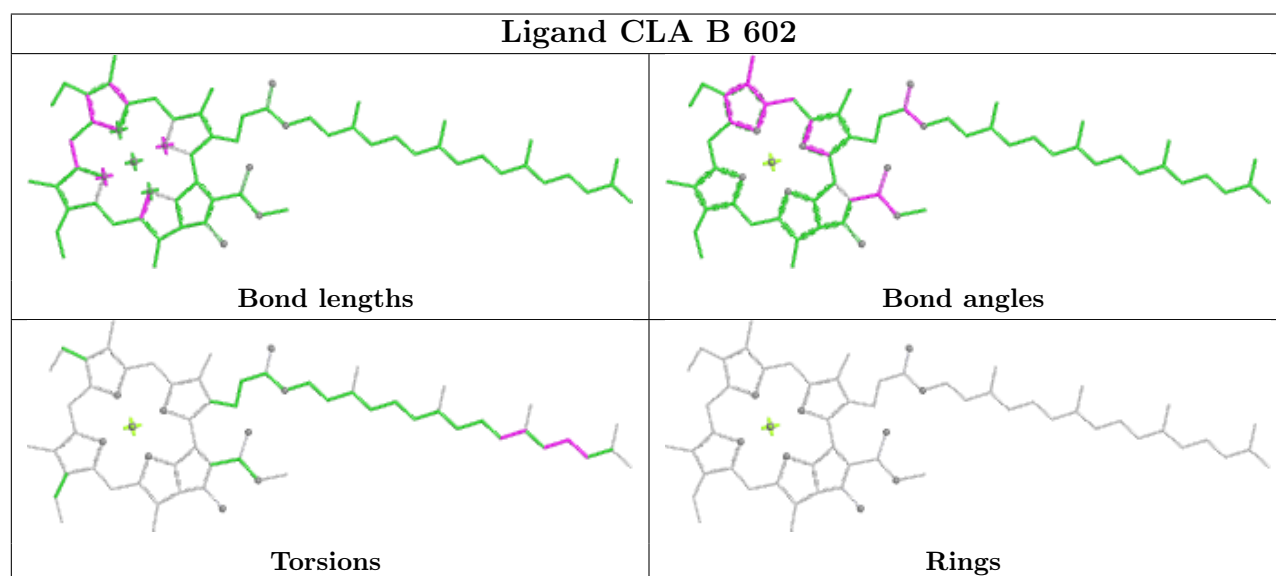
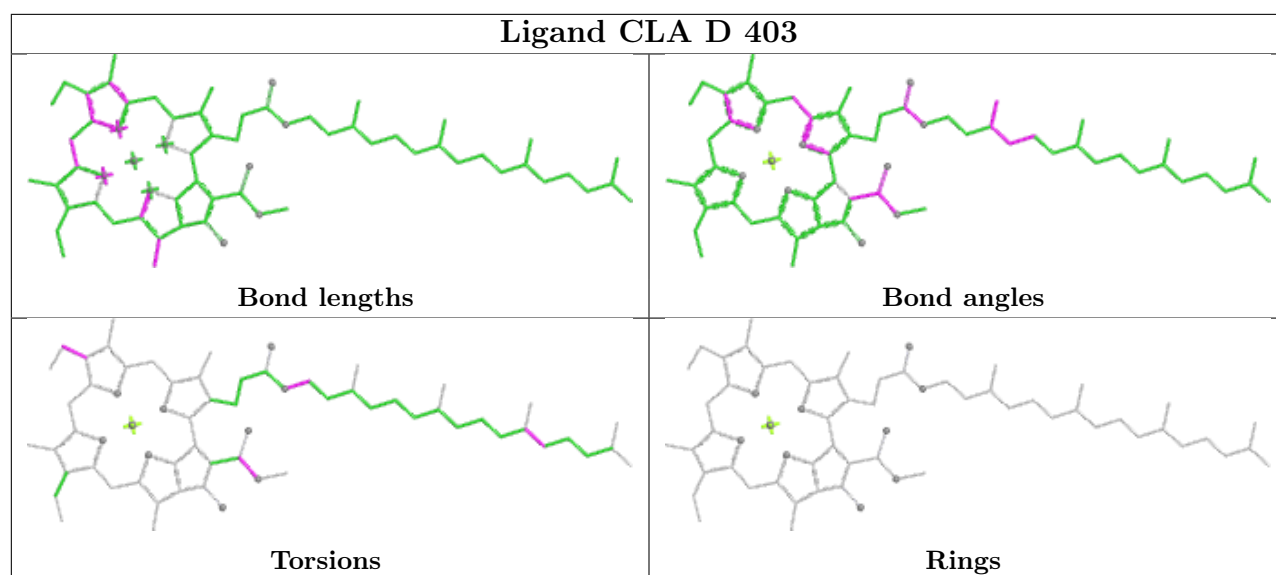
Ligand STE J 101	
 Bond lengths	 Bond angles
 Torsions	 Rings

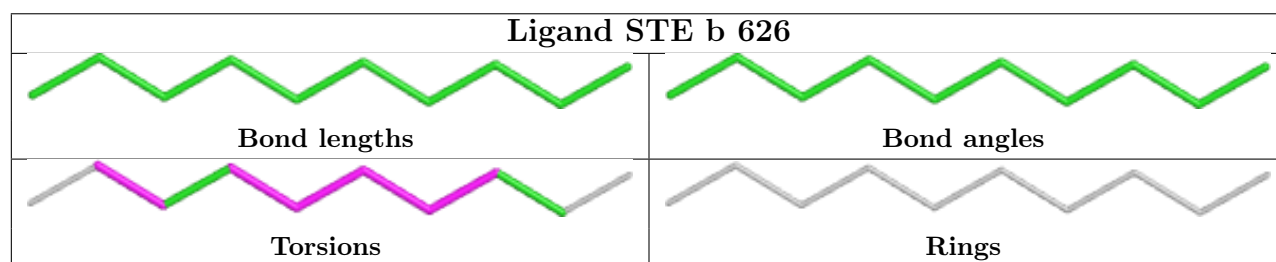
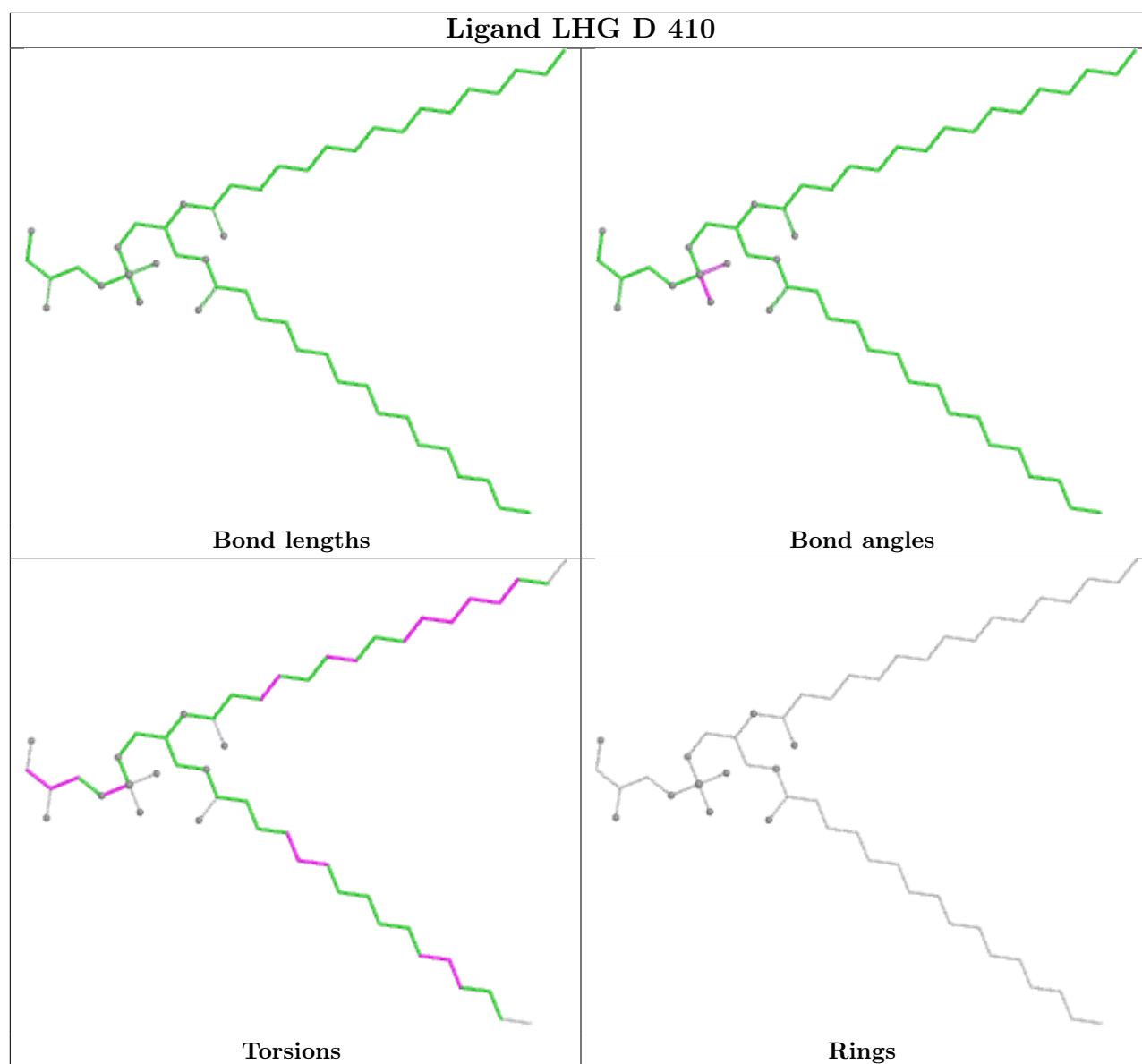


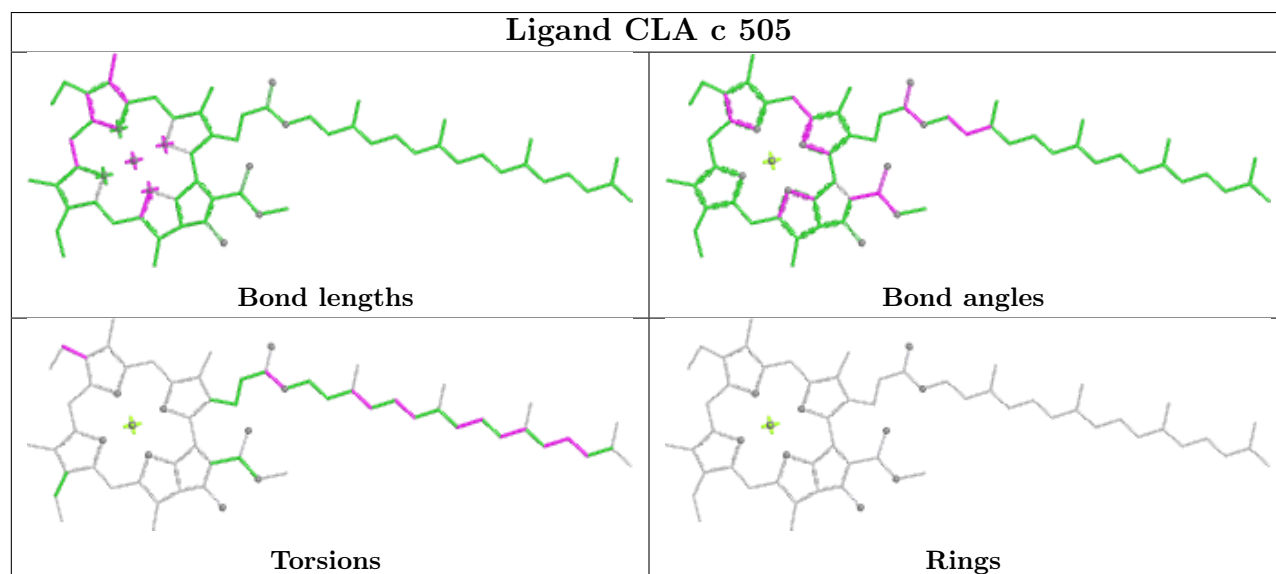
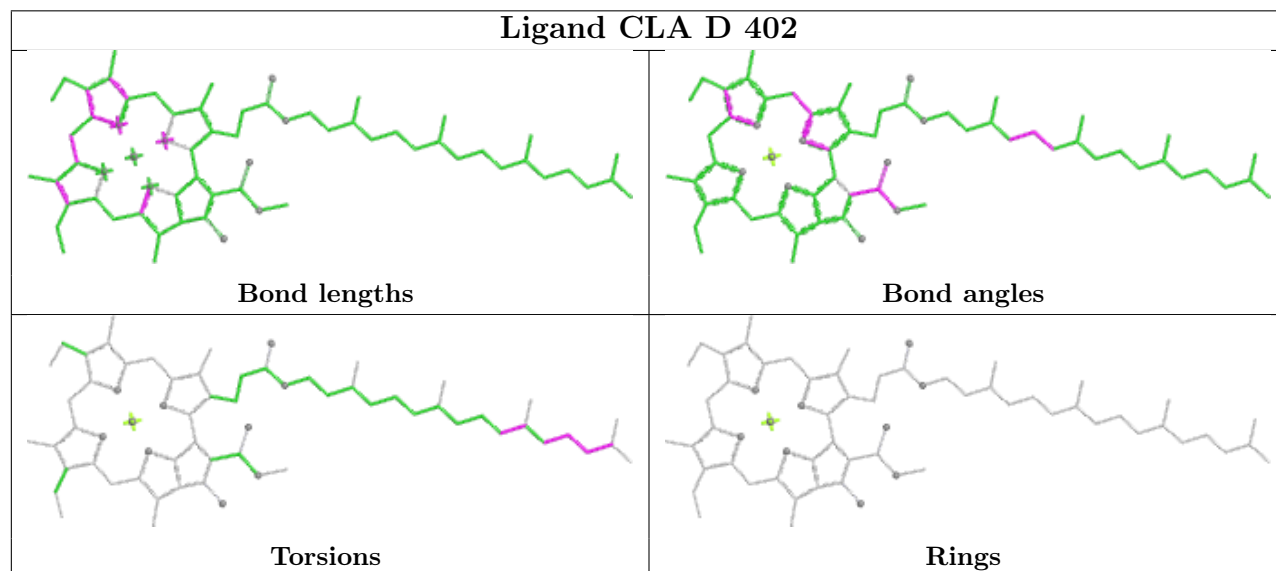
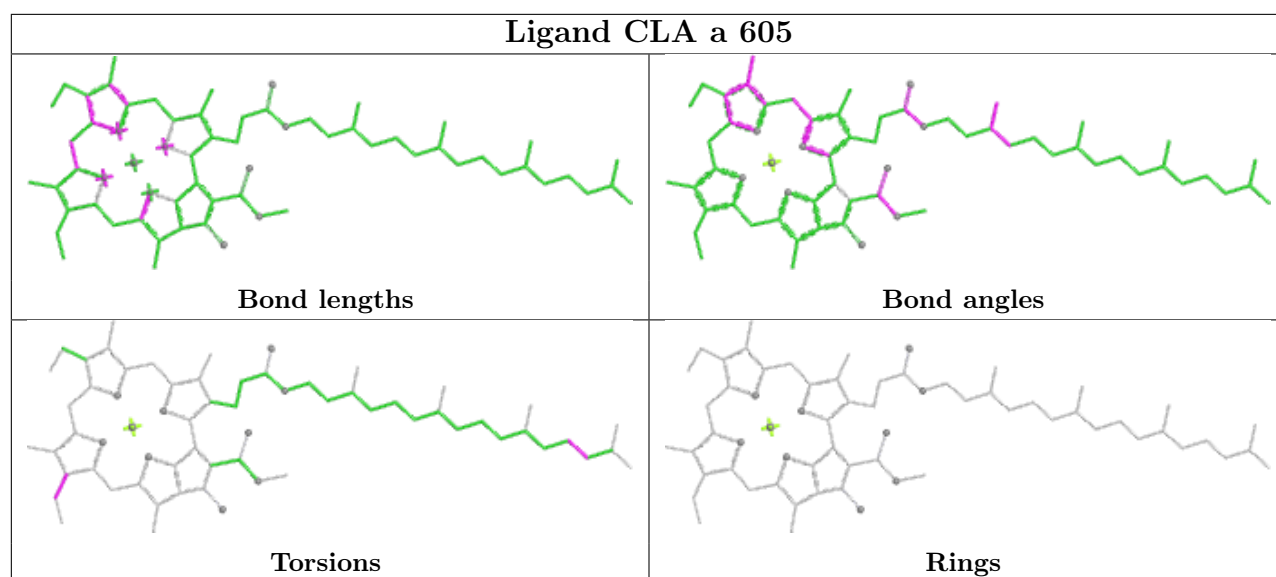


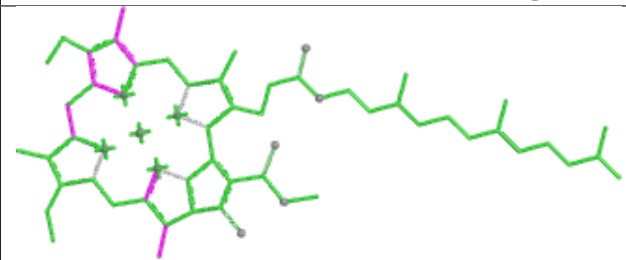
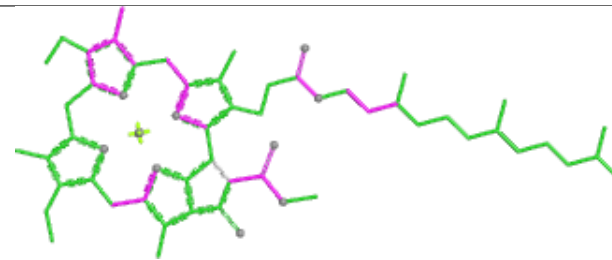
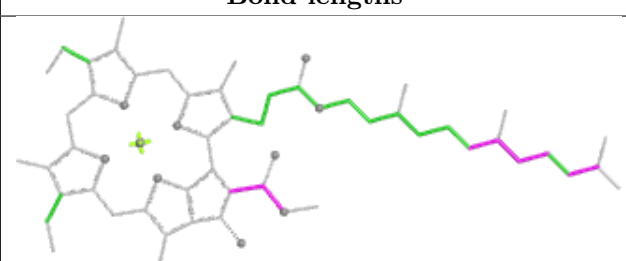
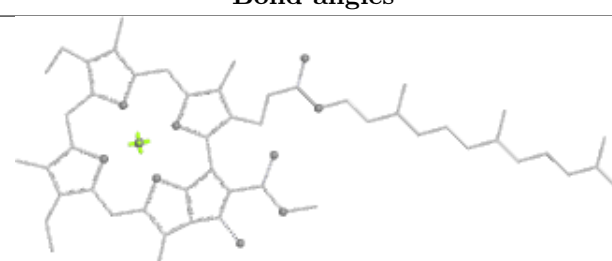
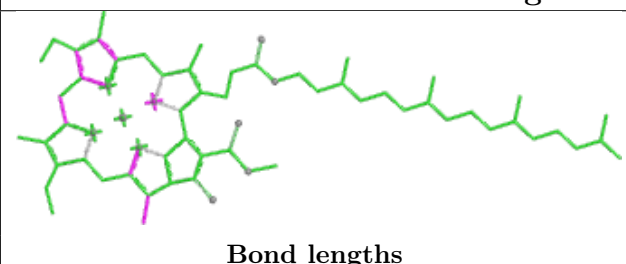
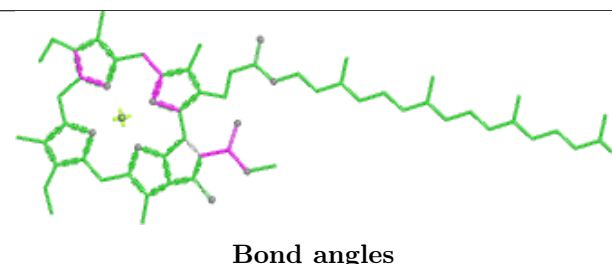
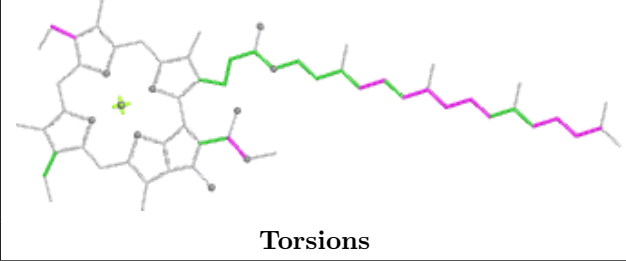
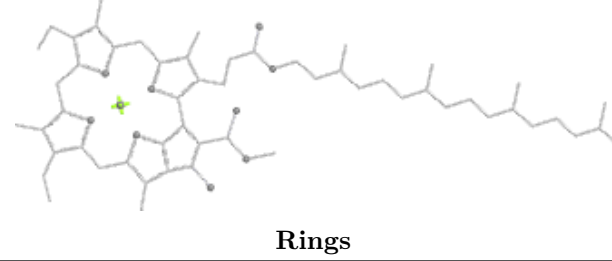
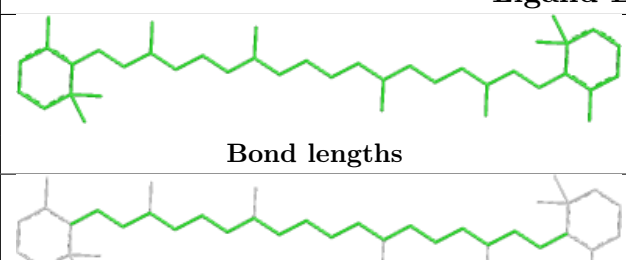
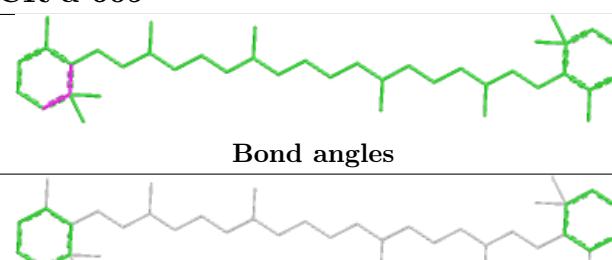


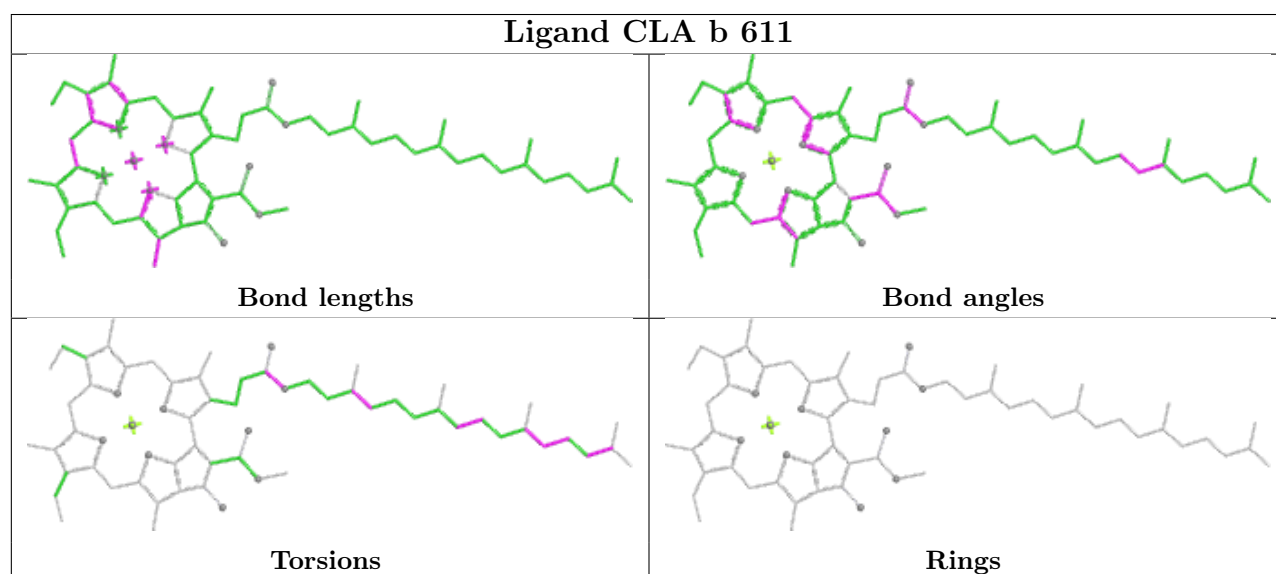
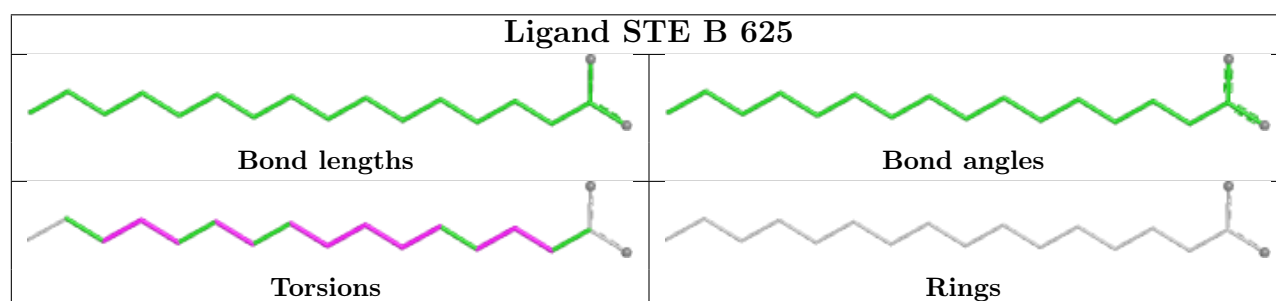
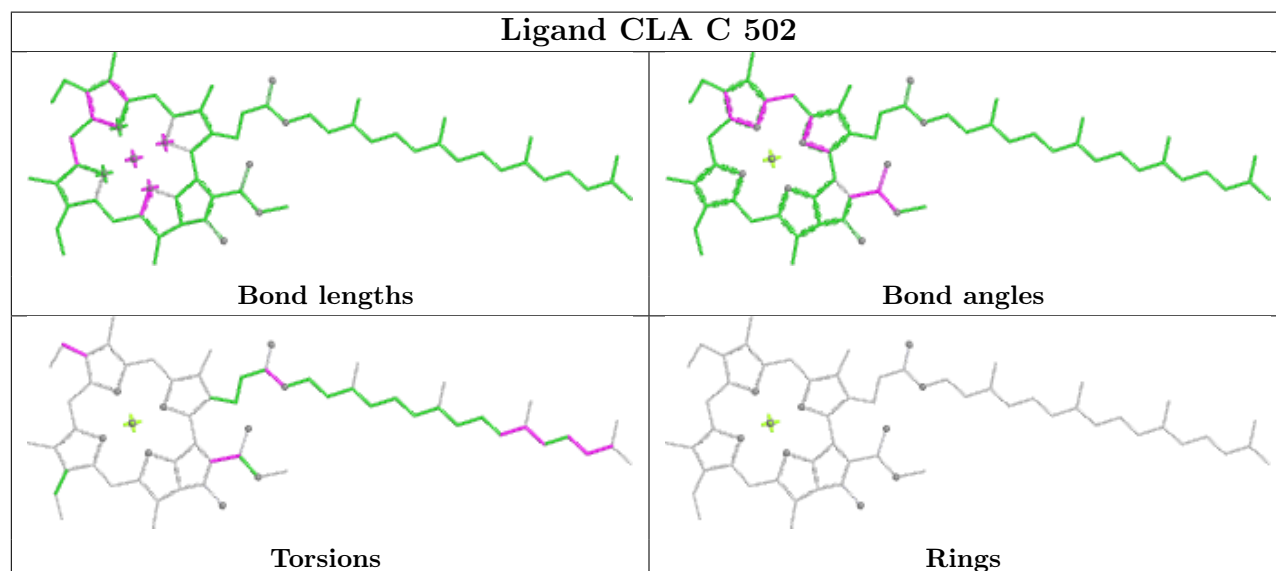
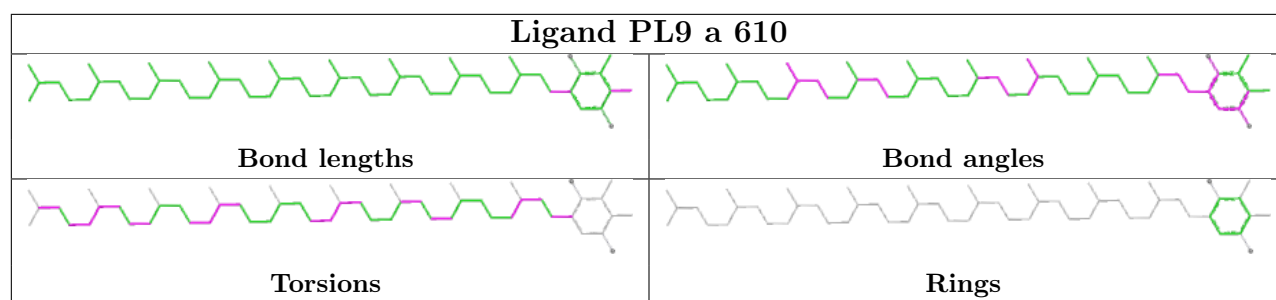
Ligand PHO a 607**Ligand CLA B 615****Ligand LMG b 622**

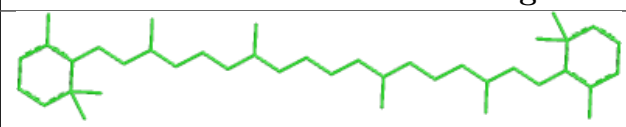
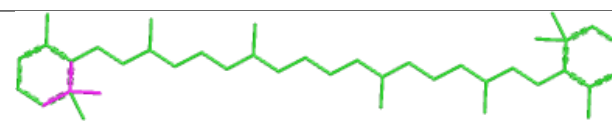
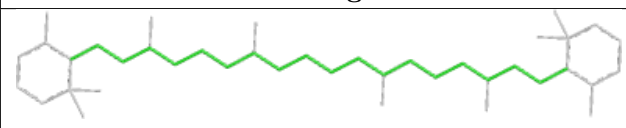
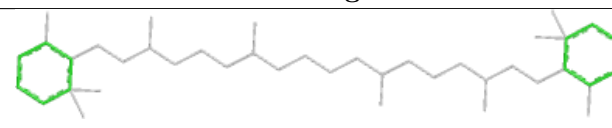


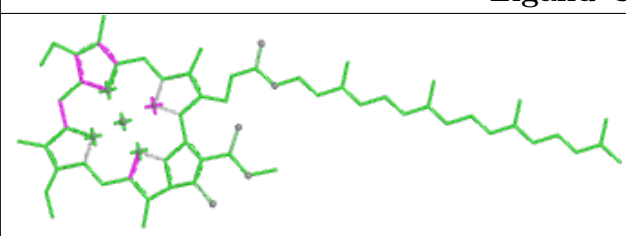
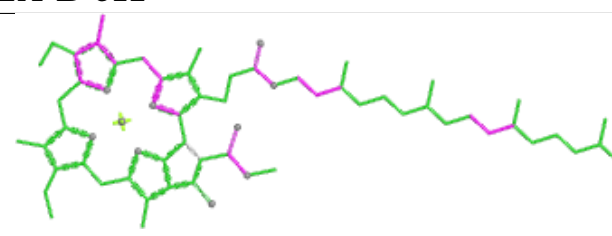
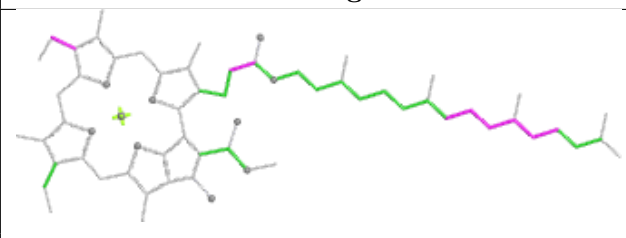
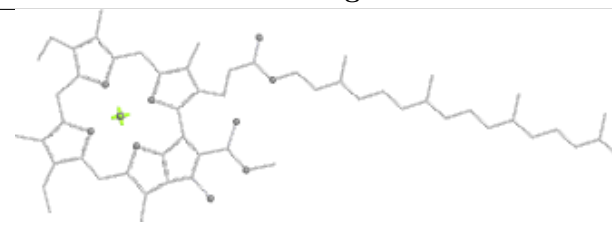


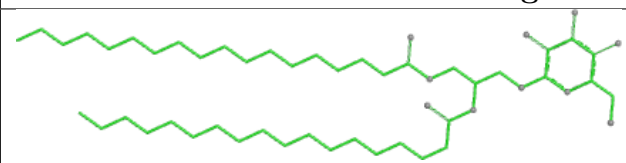
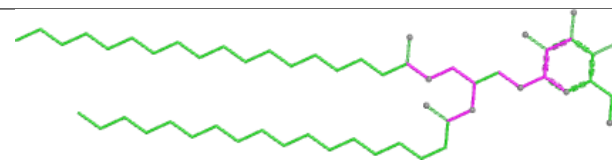
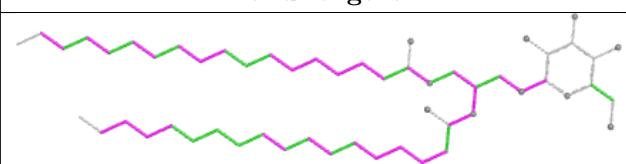
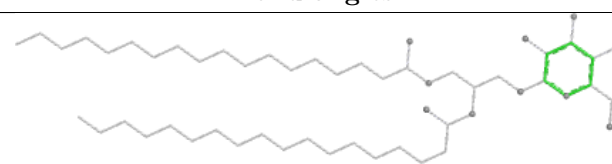


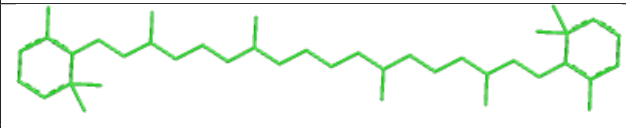
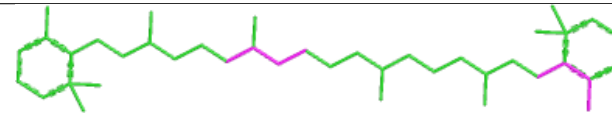
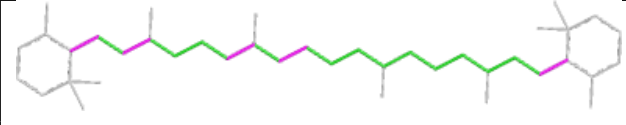
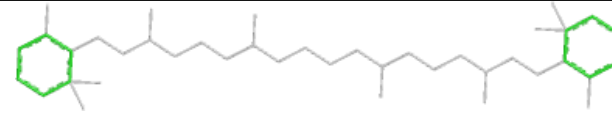
Ligand CLA c 504	
	
Bond lengths	Bond angles
	
Torsions	Rings
Ligand CLA b 601	
	
Bond lengths	Bond angles
	
Torsions	Rings
Ligand BCR a 609	
	
Bond lengths	Bond angles
	
Torsions	Rings

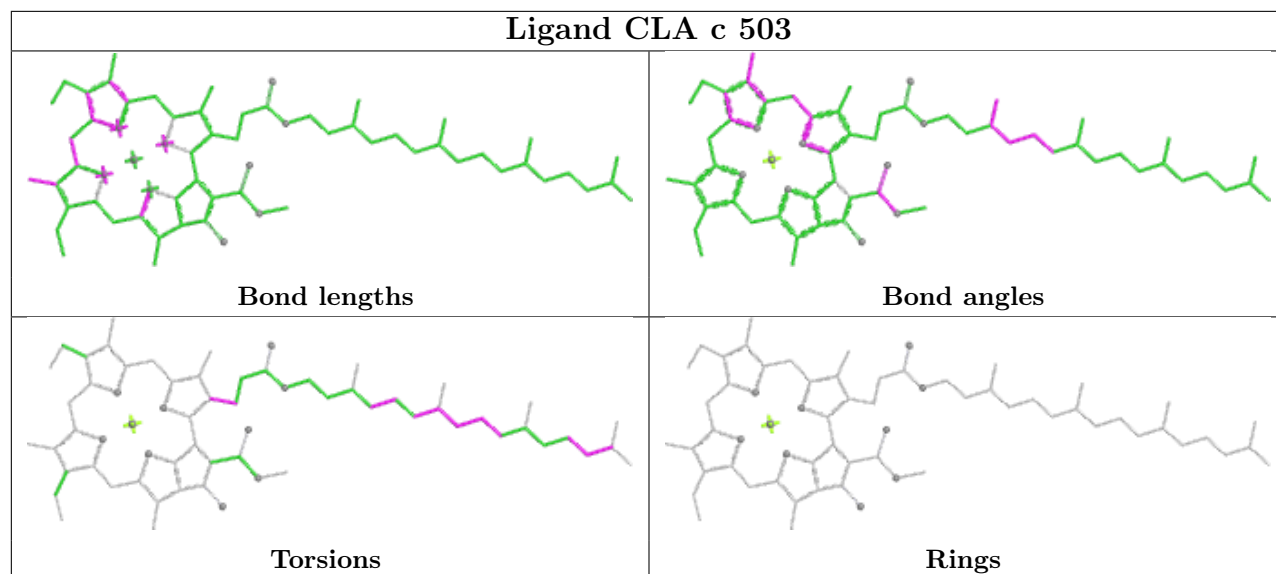
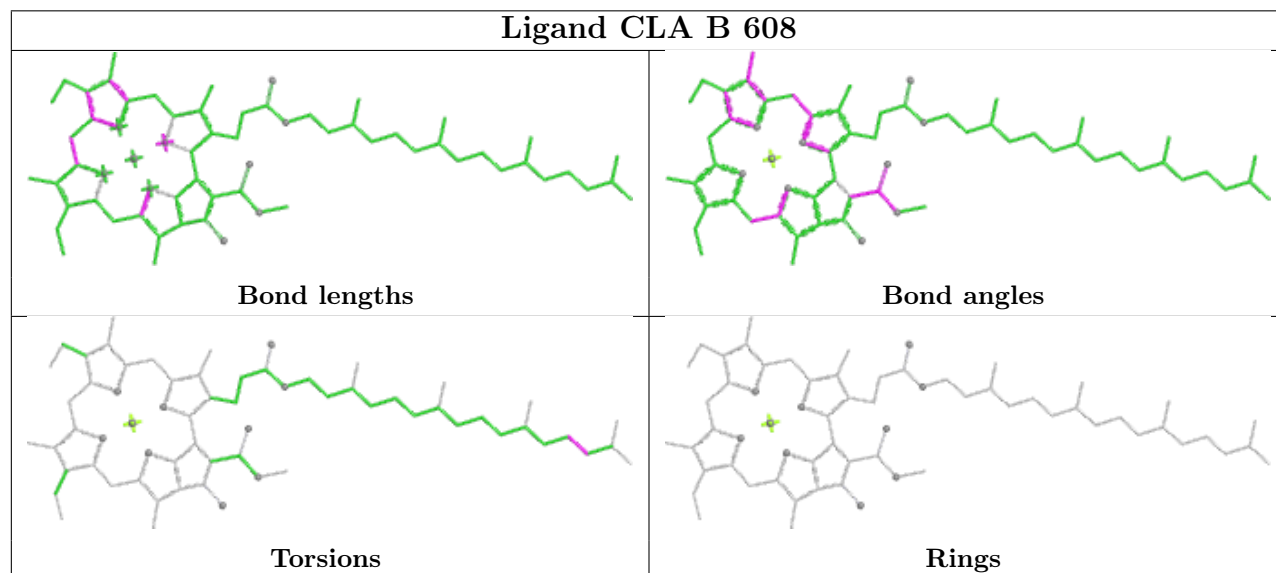
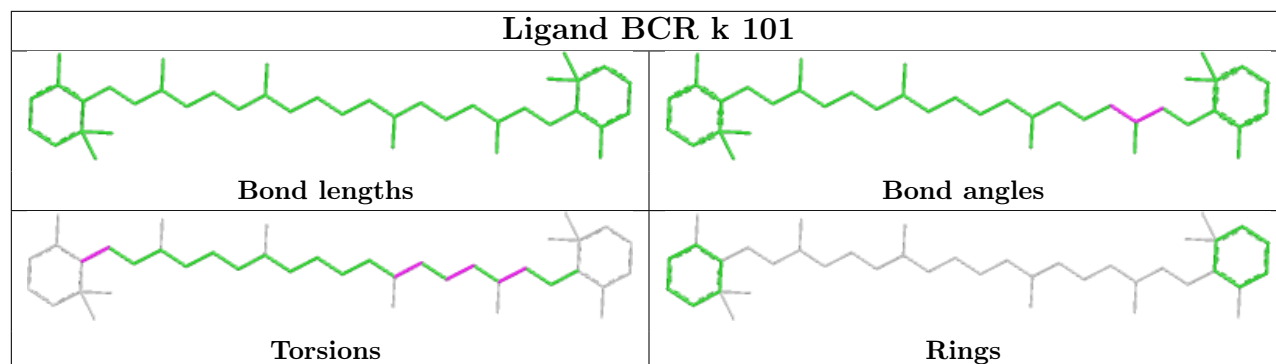


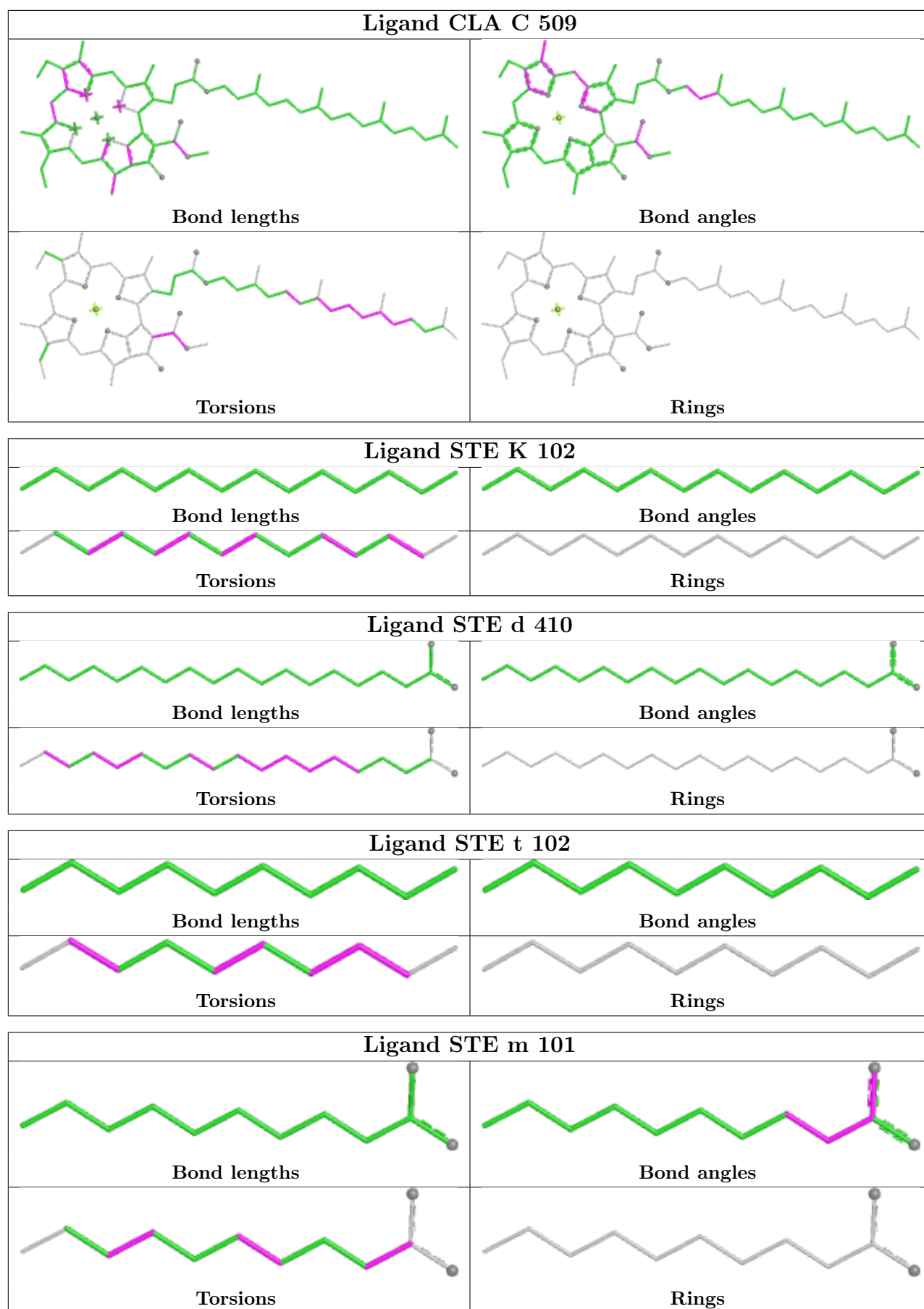
Ligand BCR C 515	
	
Bond lengths	Bond angles
	
Torsions	Rings

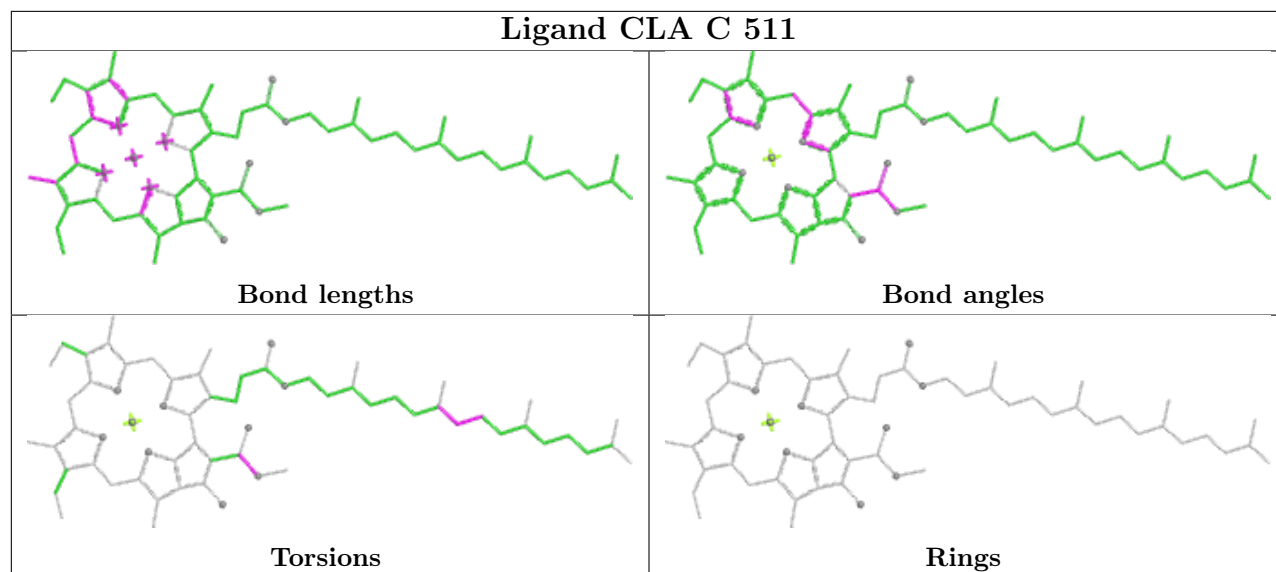
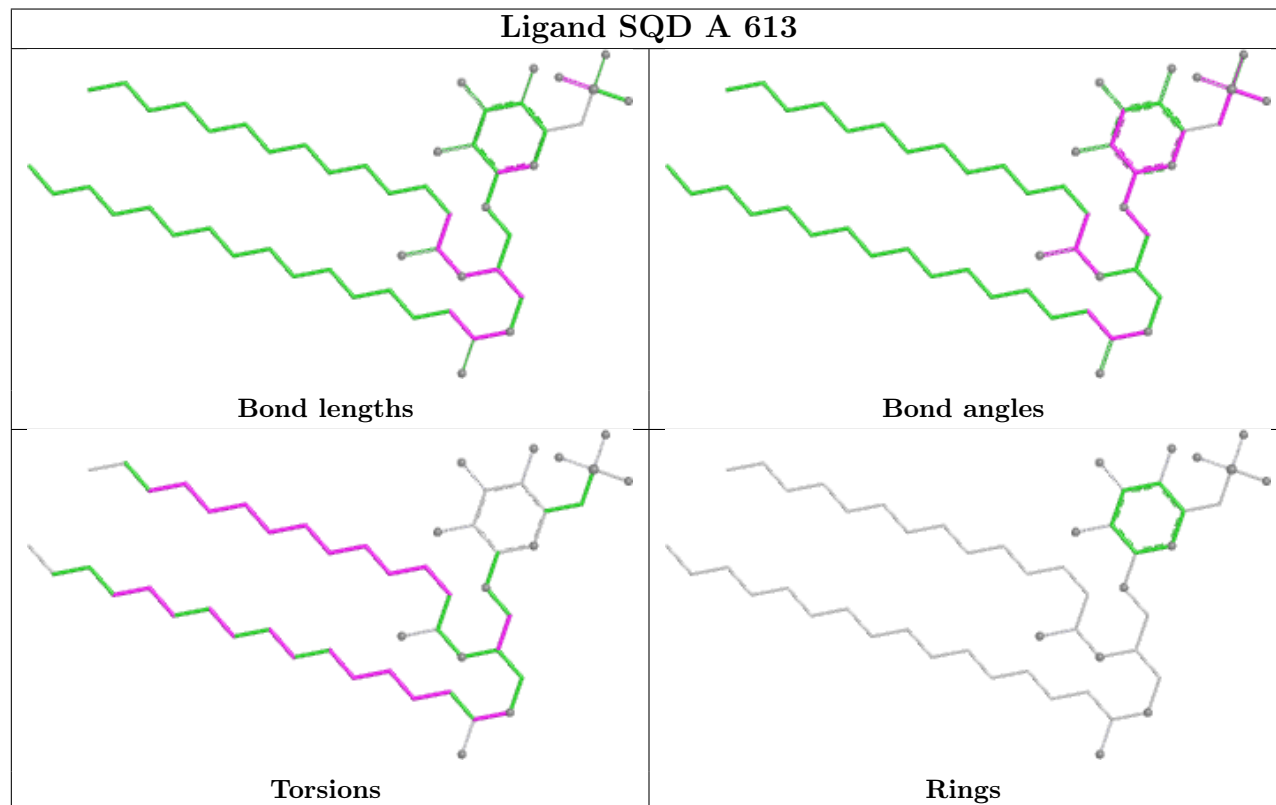
Ligand CLA B 612	
	
Bond lengths	Bond angles
	
Torsions	Rings

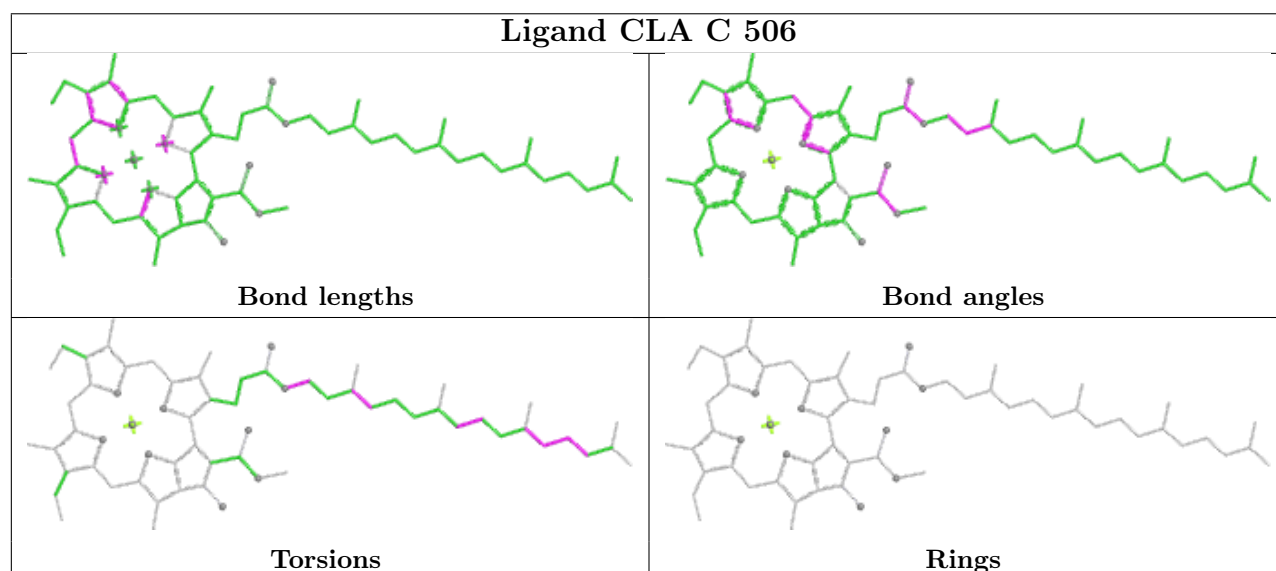
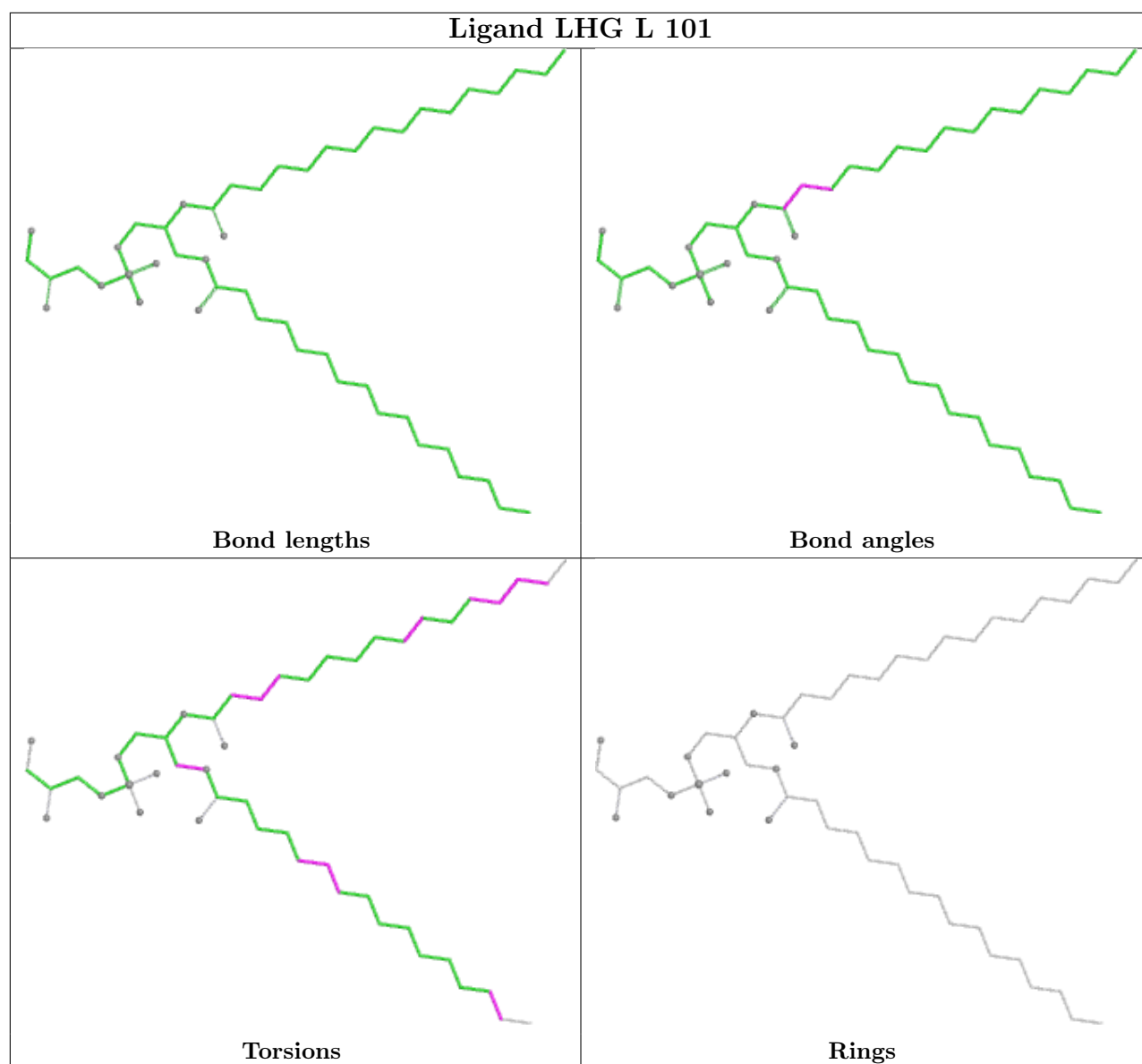
Ligand LMG a 615	
	
Bond lengths	Bond angles
	
Torsions	Rings

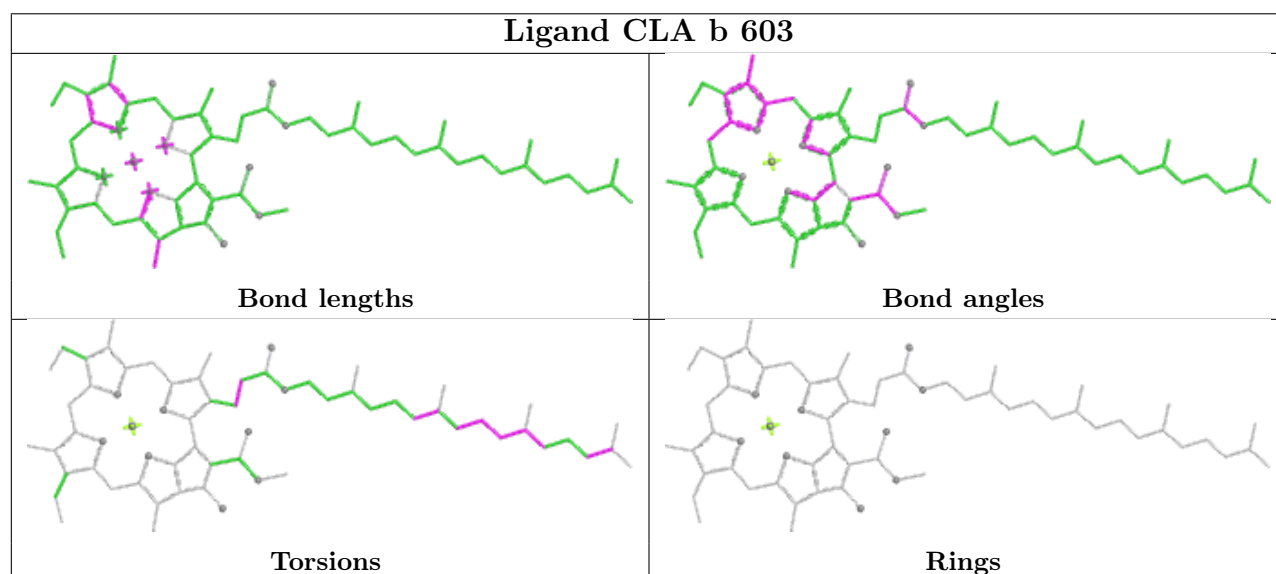
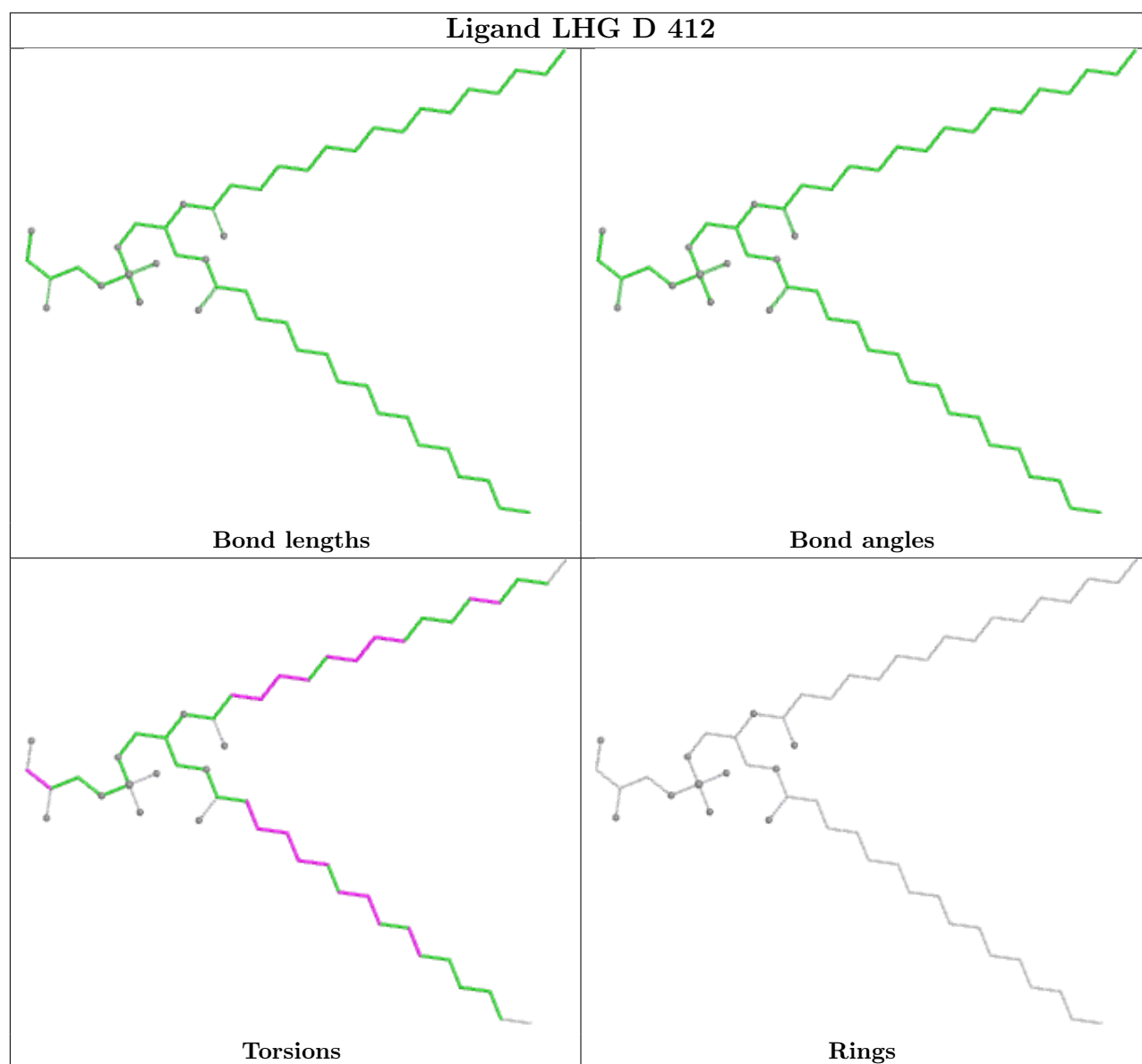
Ligand BCR t 101	
	
Bond lengths	Bond angles
	
Torsions	Rings

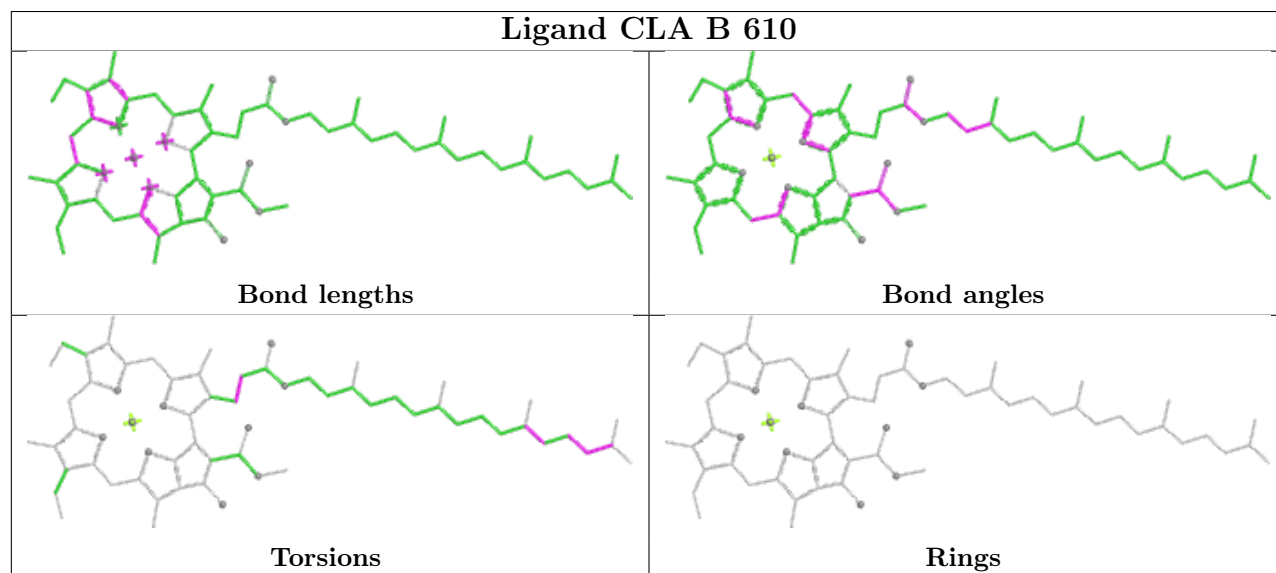
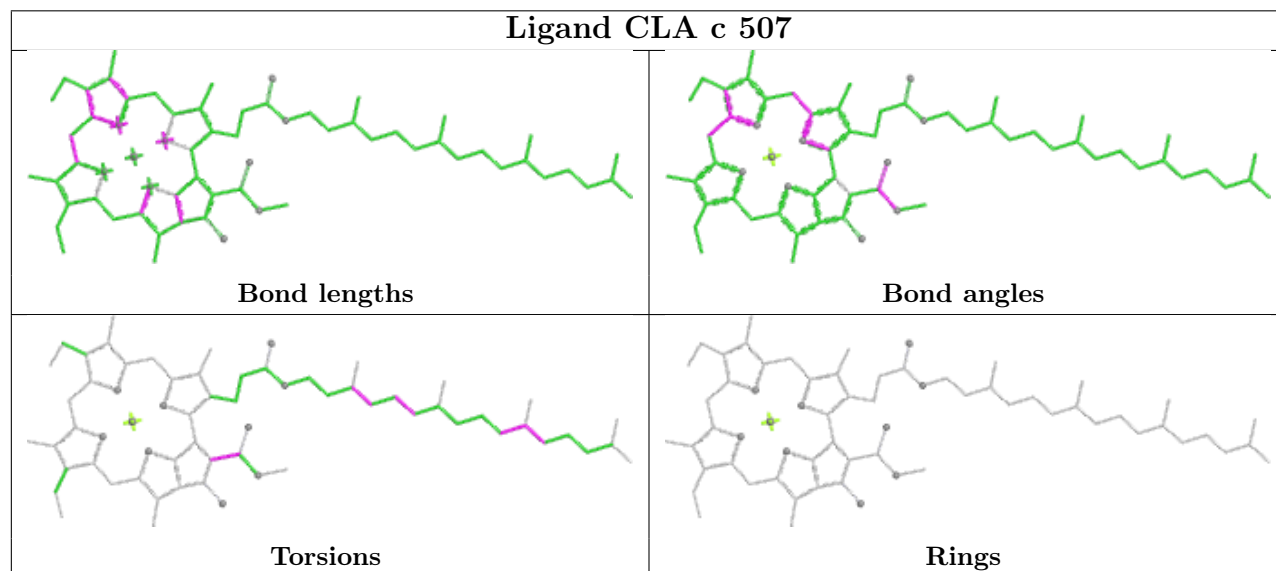
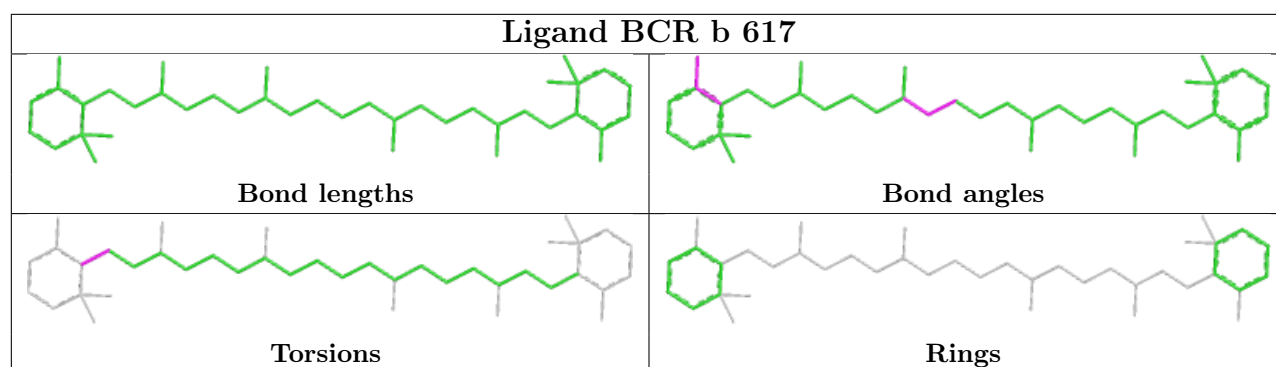
Ligand CLA c 503**Ligand CLA B 608****Ligand BCR k 101**

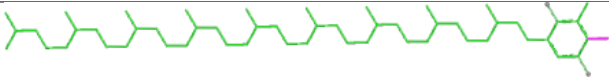
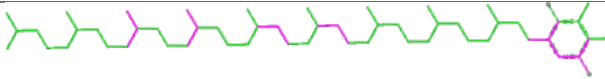
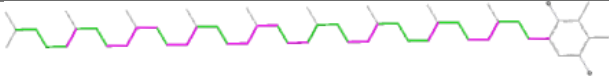
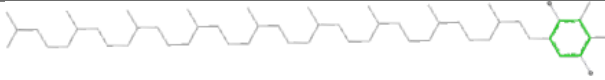


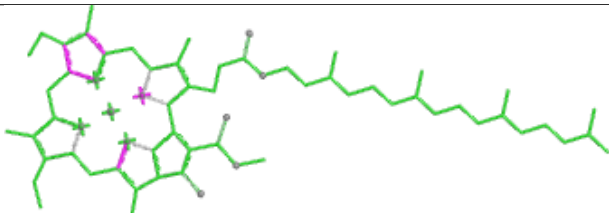
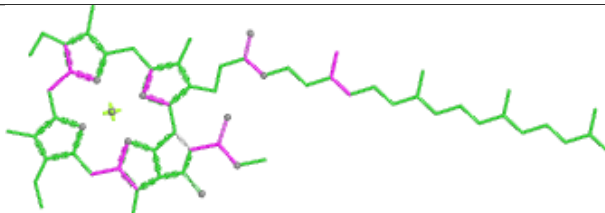
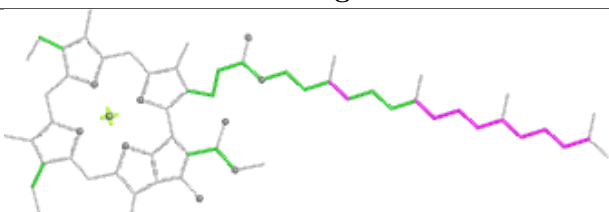
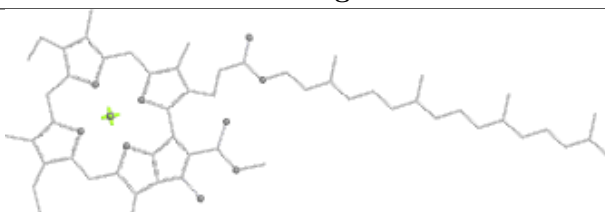
Ligand CLA C 511**Ligand SQD A 613**

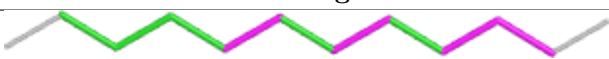


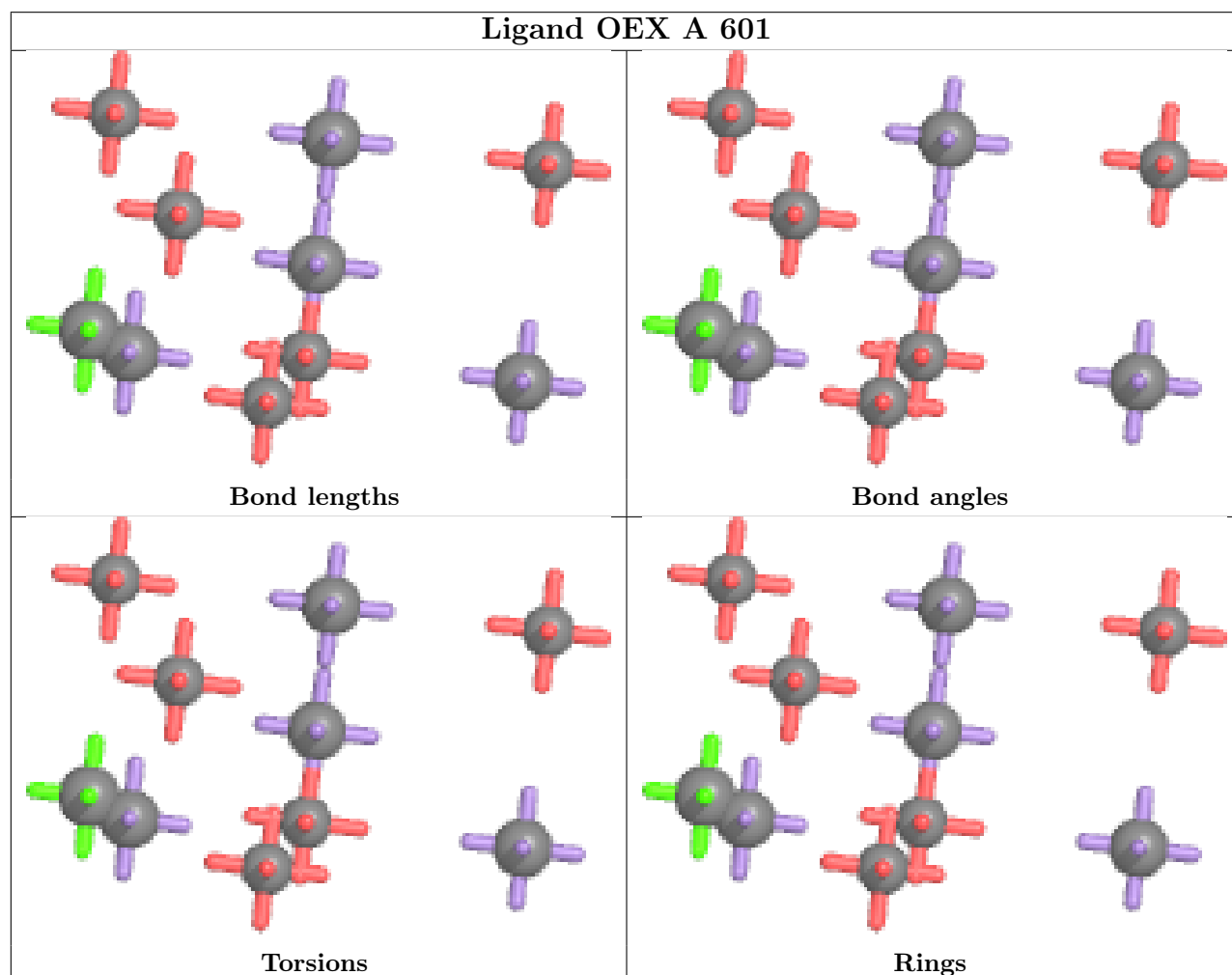
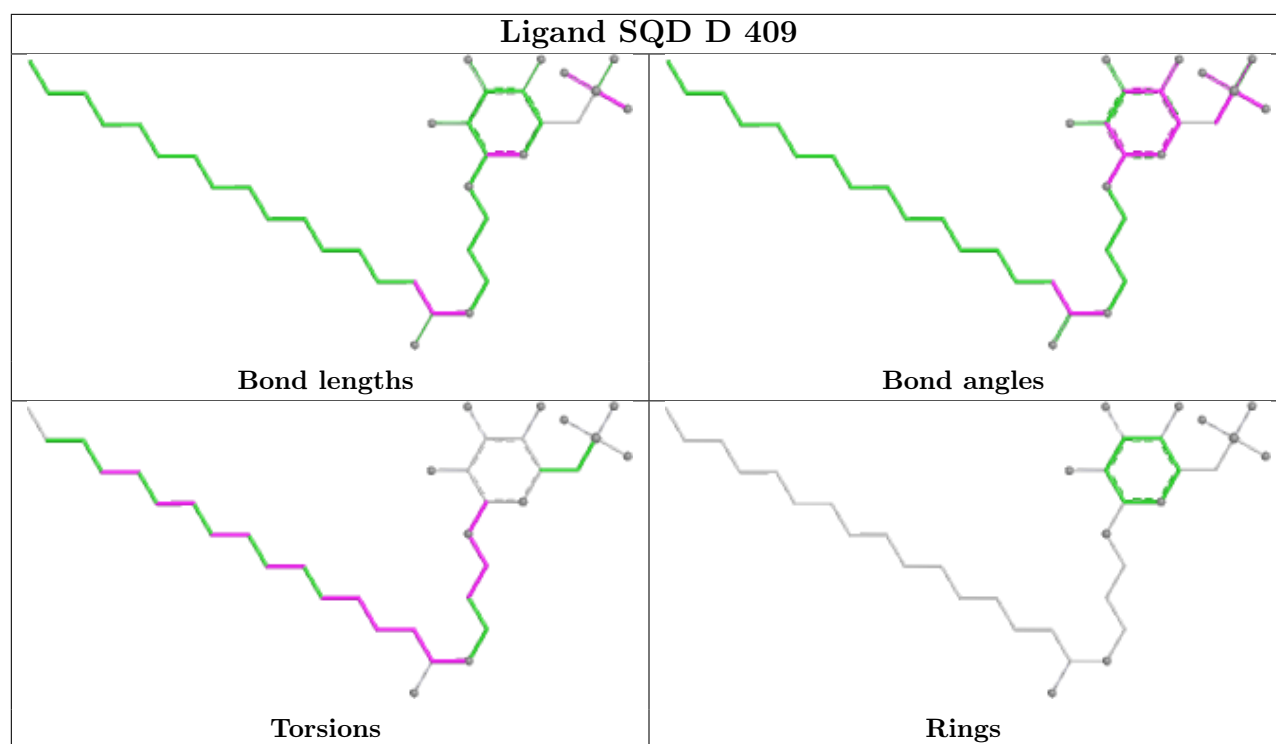


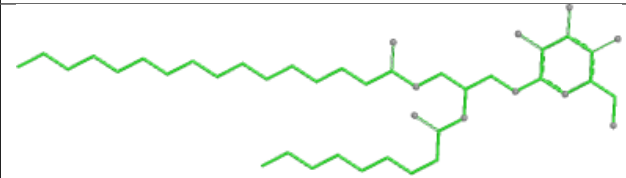
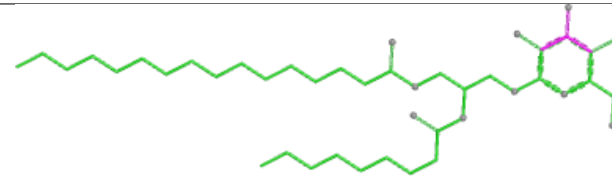
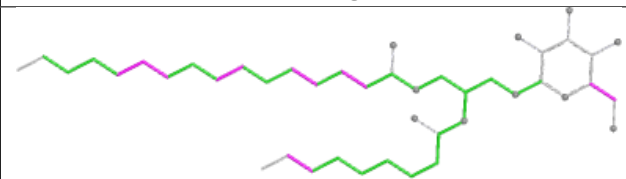
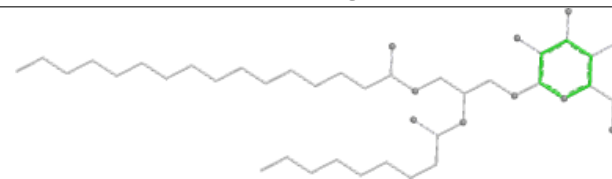


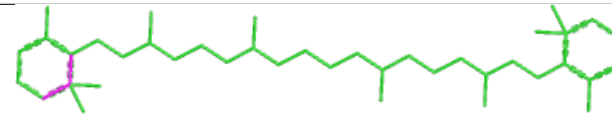
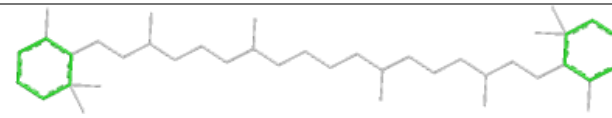
Ligand PL9 A 611	
 Bond lengths	 Bond angles
 Torsions	 Rings

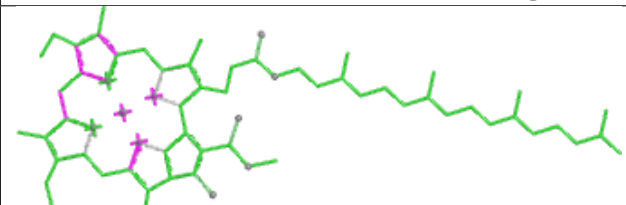
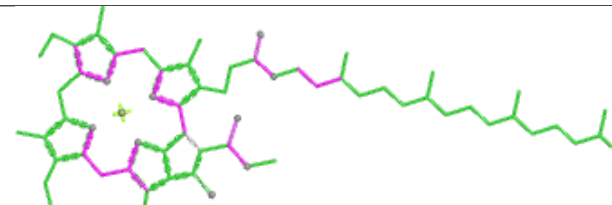
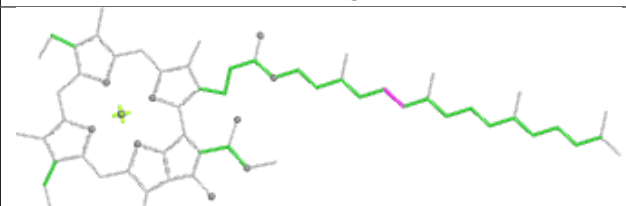
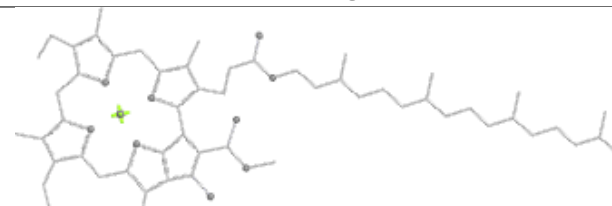
Ligand CLA B 603	
 Bond lengths	 Bond angles
 Torsions	 Rings

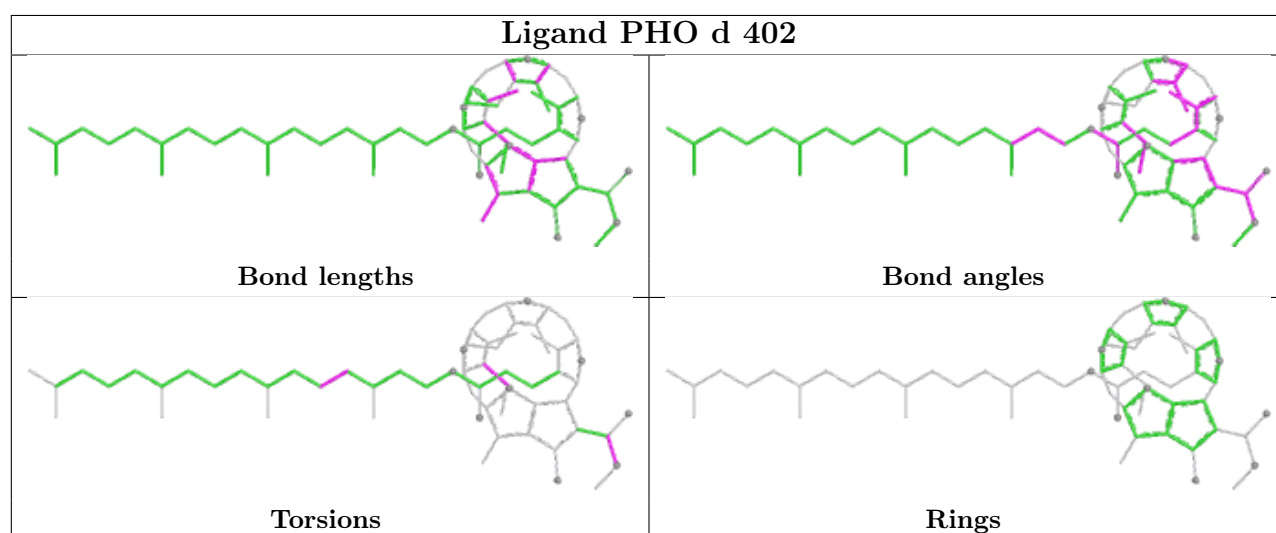
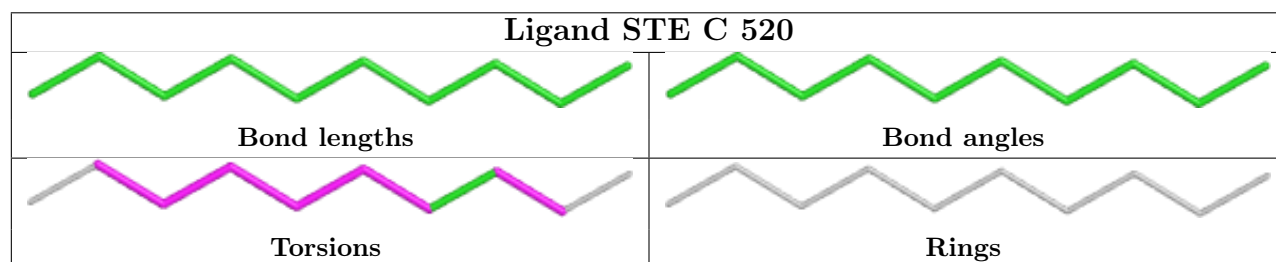
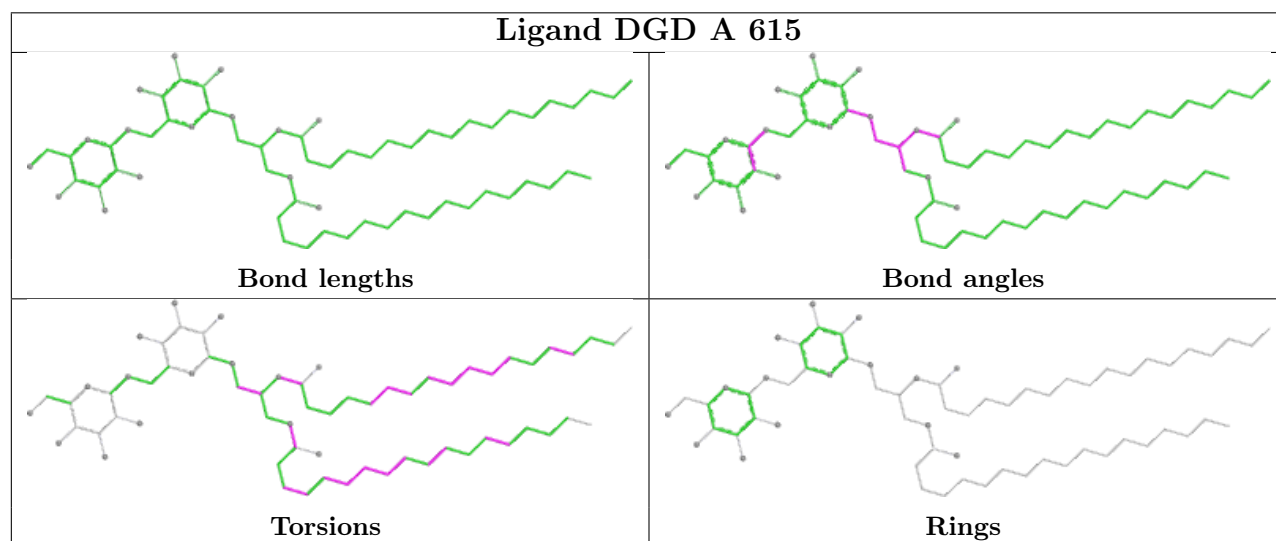
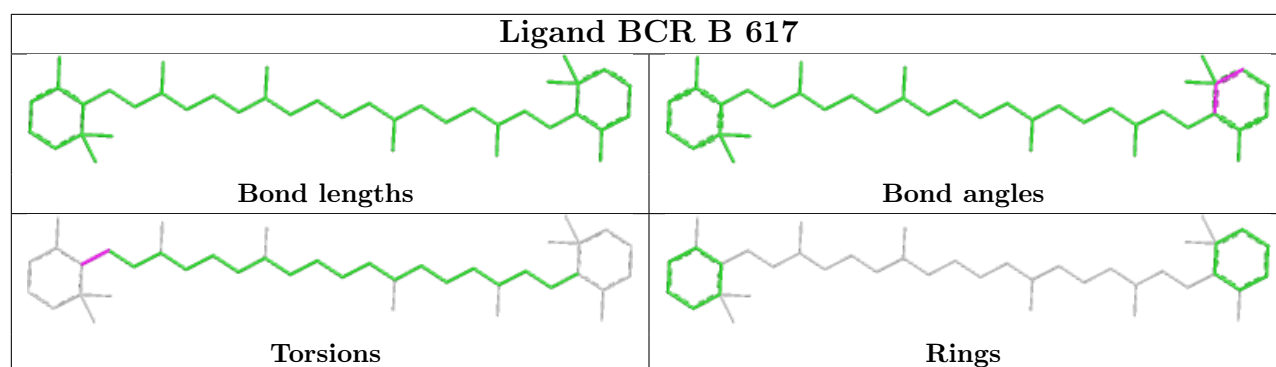
Ligand STE E 103	
 Bond lengths	 Bond angles
 Torsions	 Rings

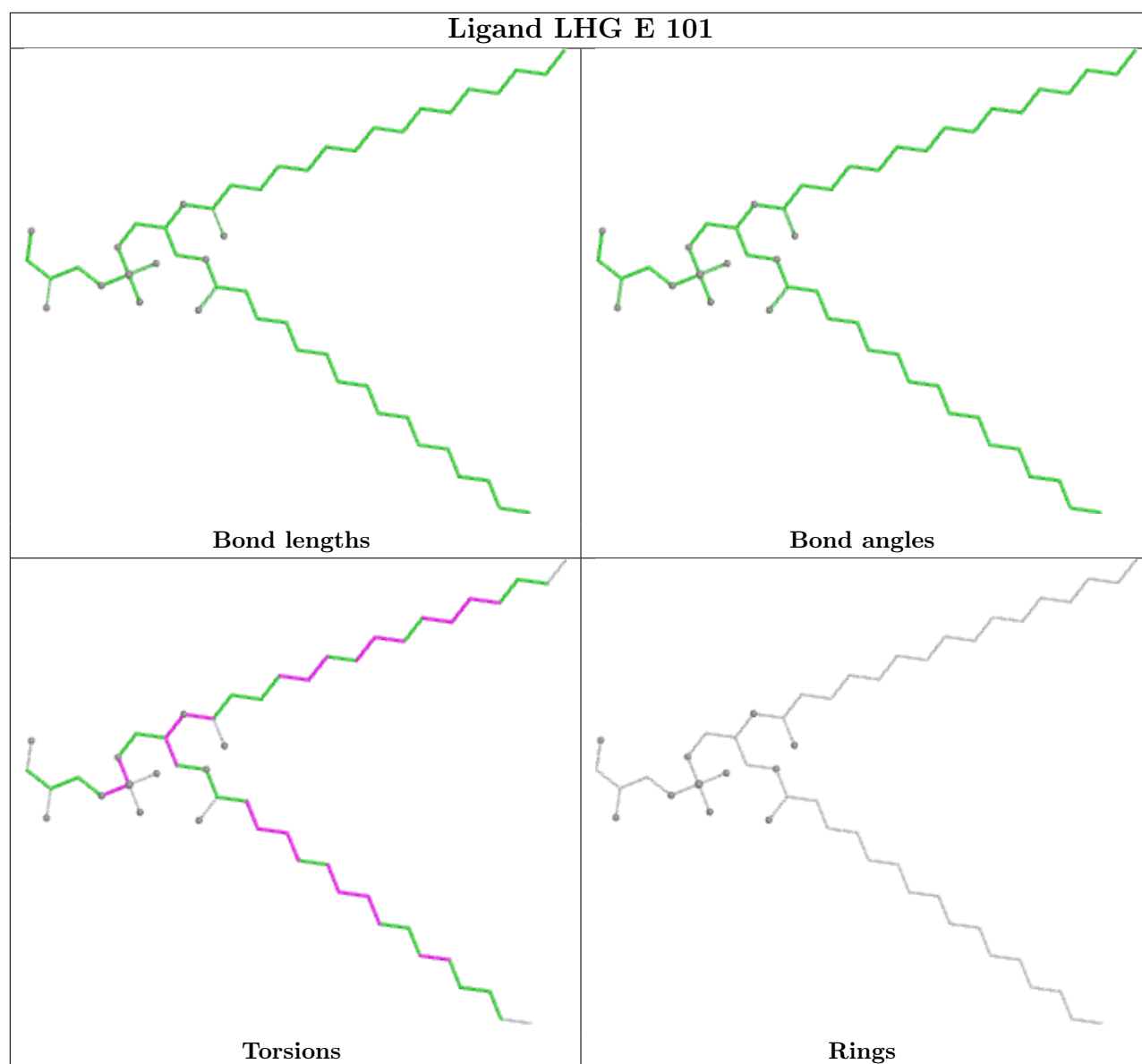


Ligand LMG d 411	
	
Bond lengths	Bond angles
	
Torsions	Rings

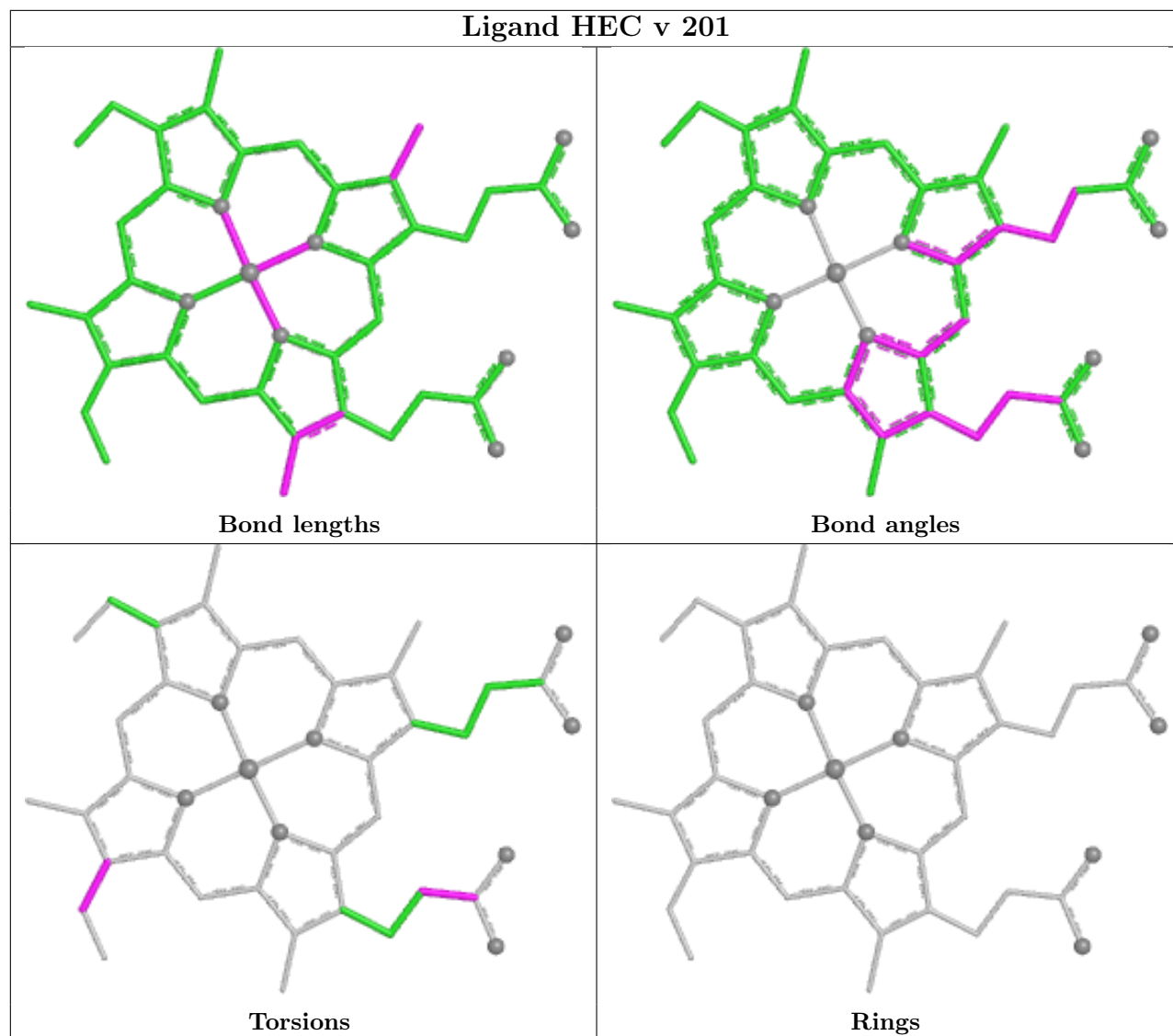
Ligand BCR A 610	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand CLA b 605	
	
Bond lengths	Bond angles
	
Torsions	Rings

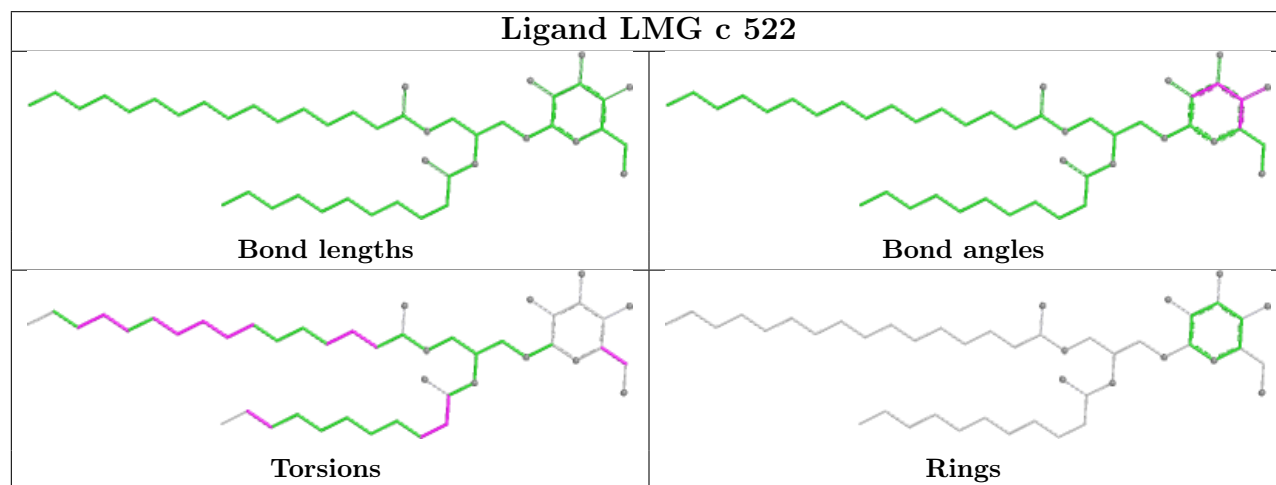


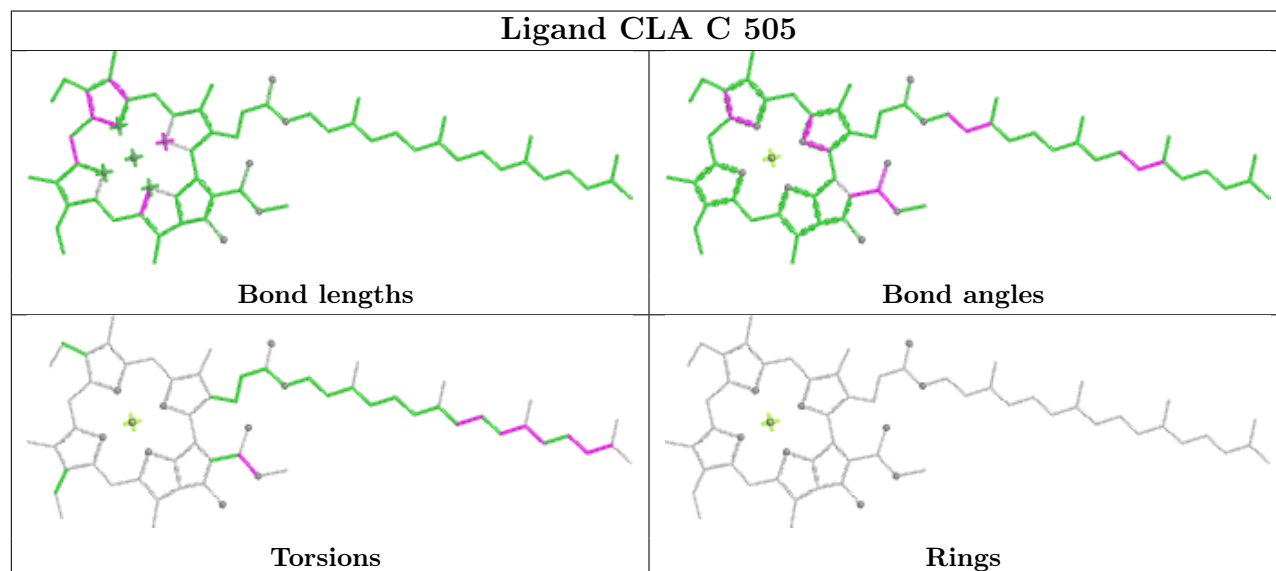
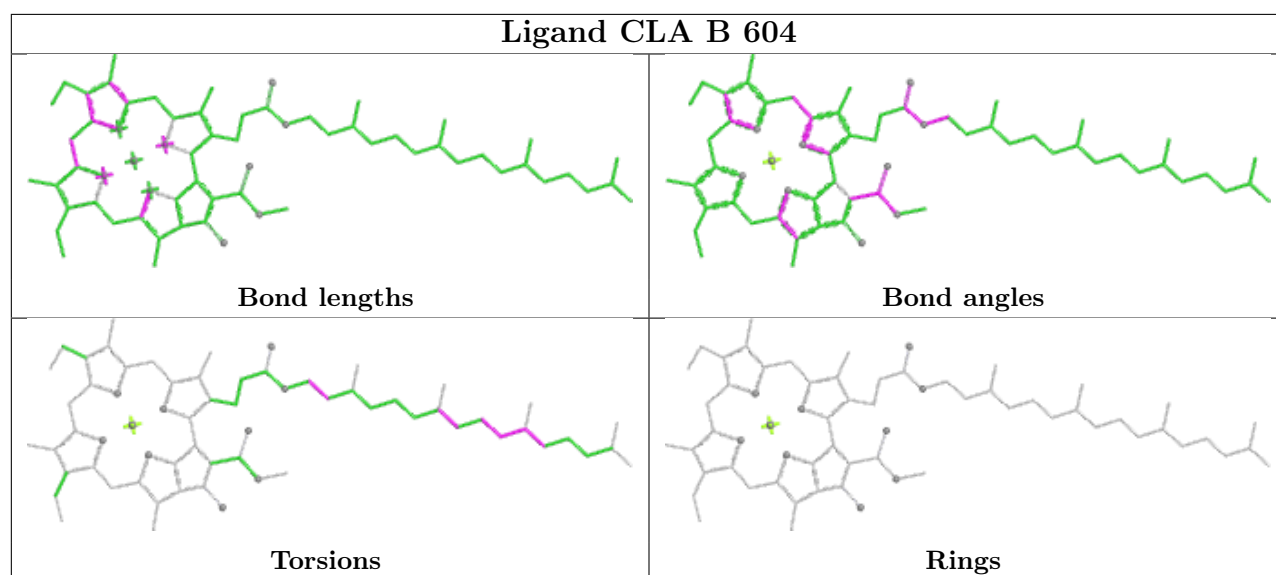
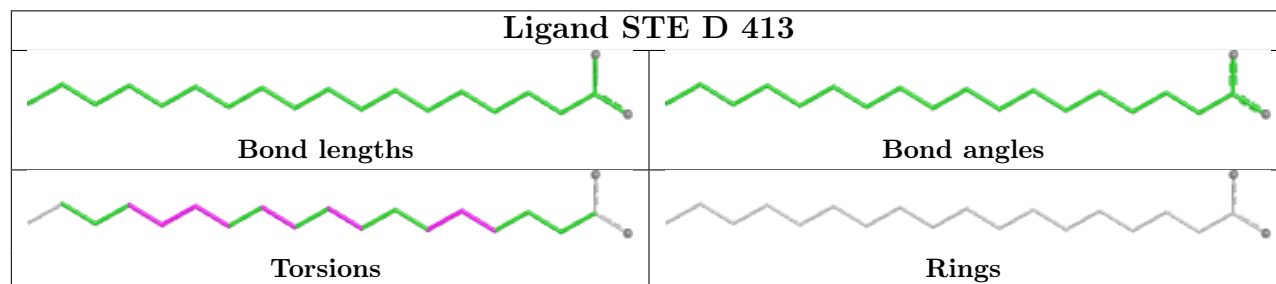
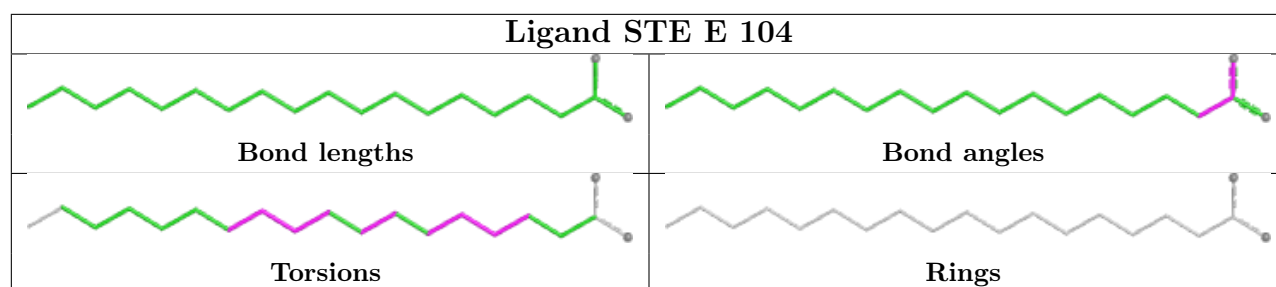


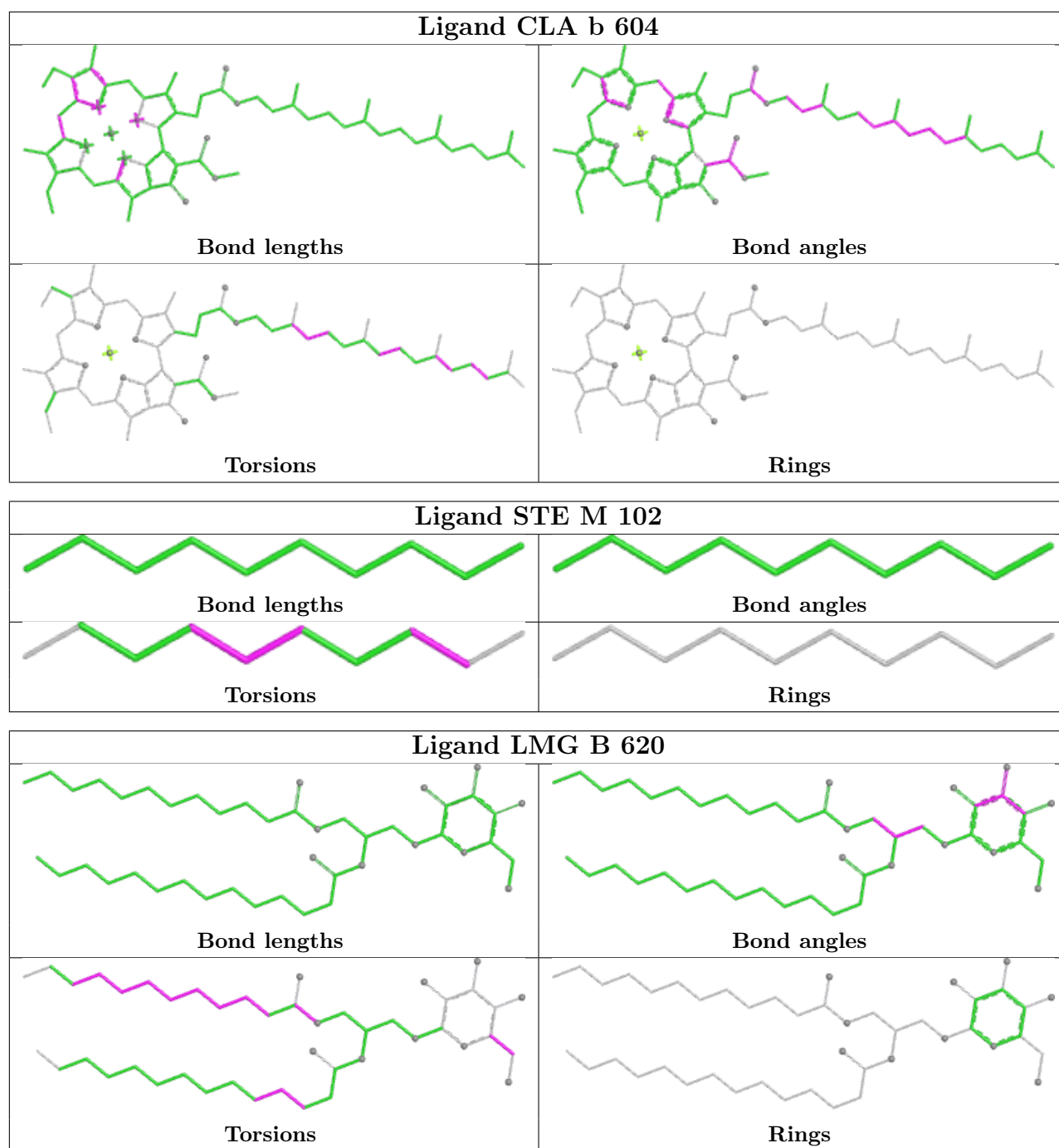
Ligand HEC v 201

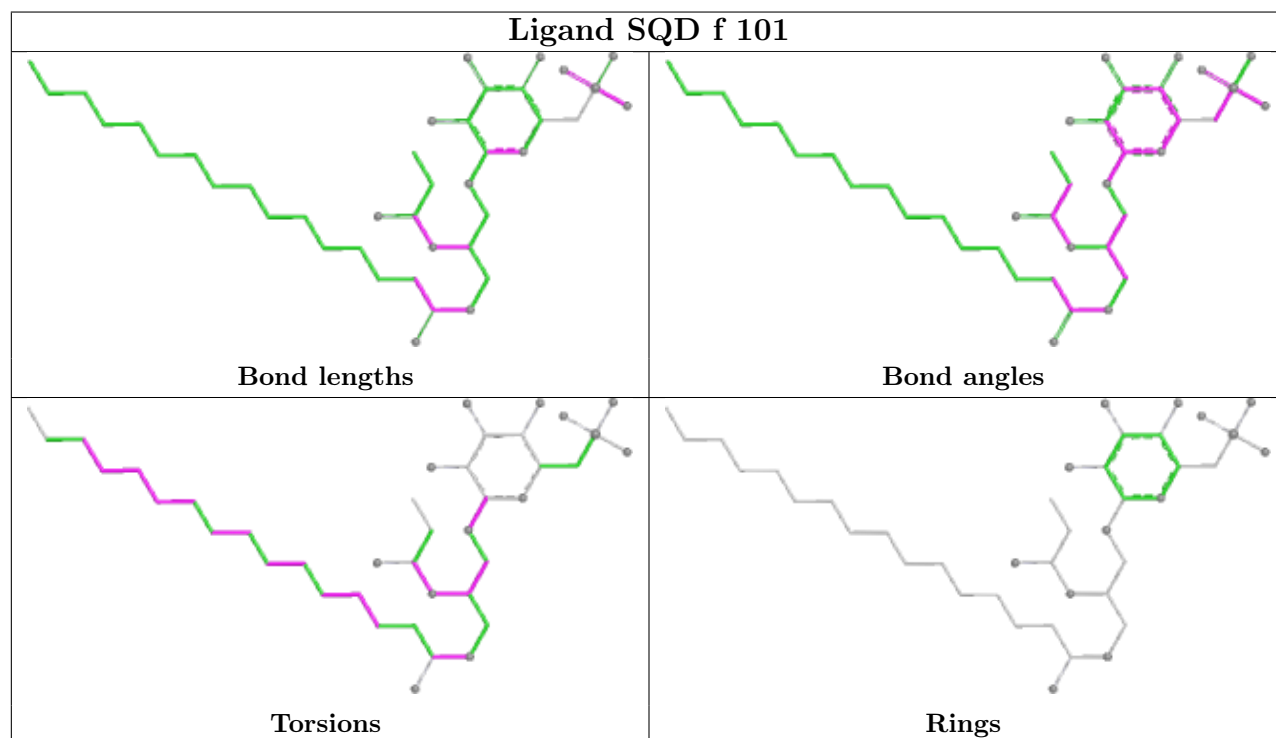
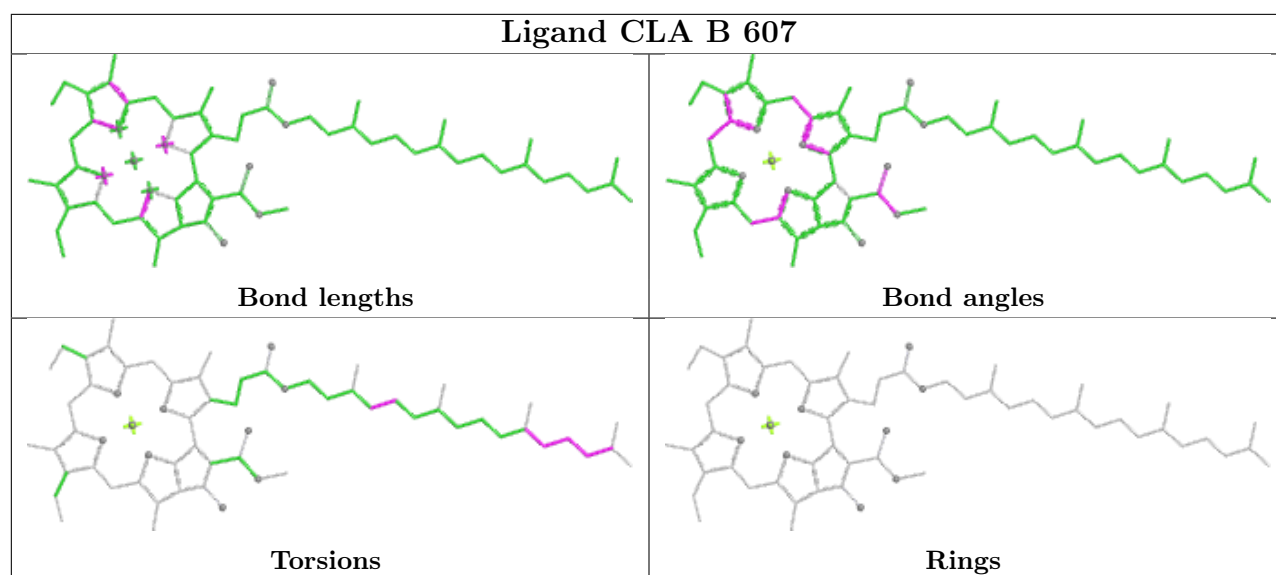


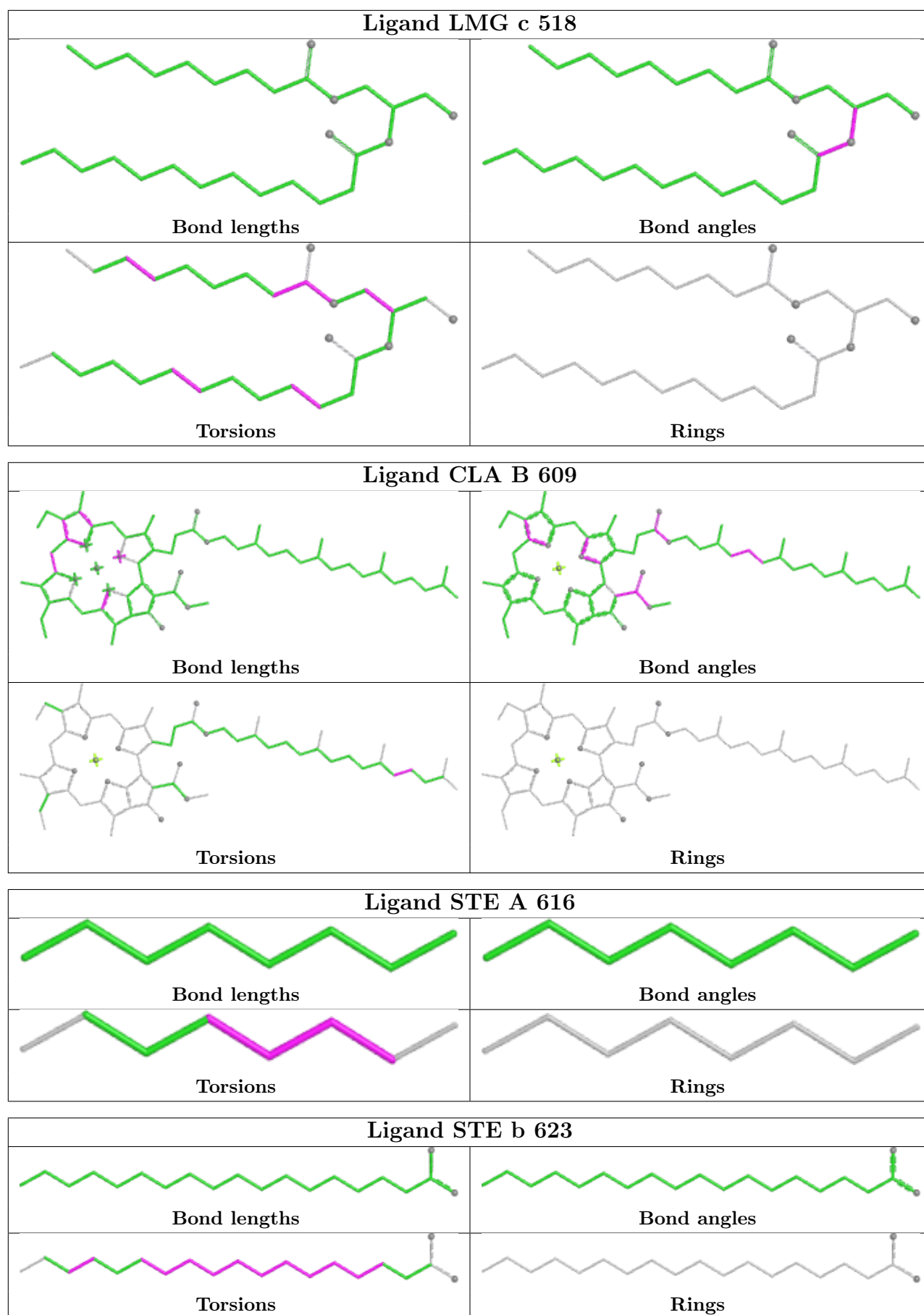
Ligand LMG c 522

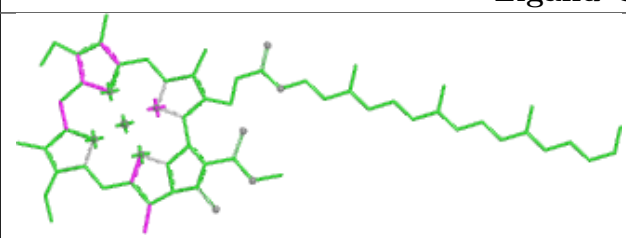
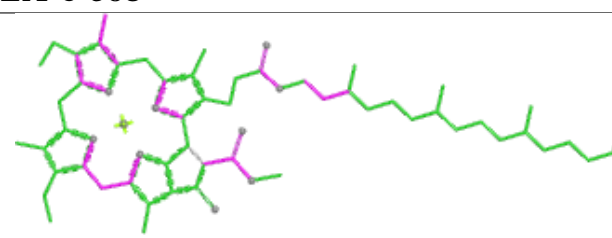
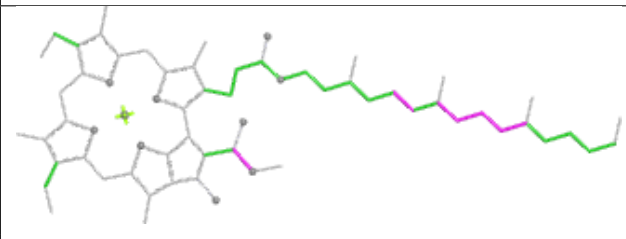
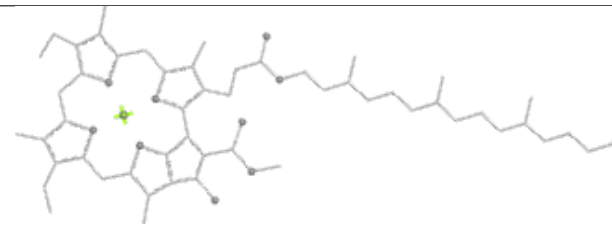


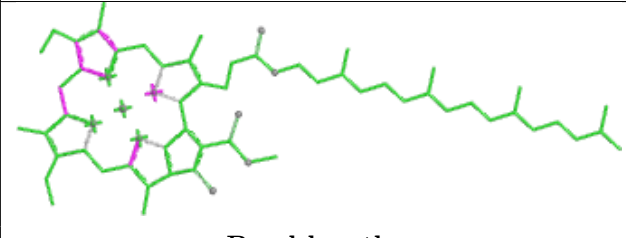
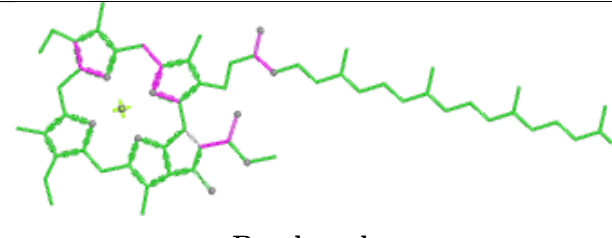
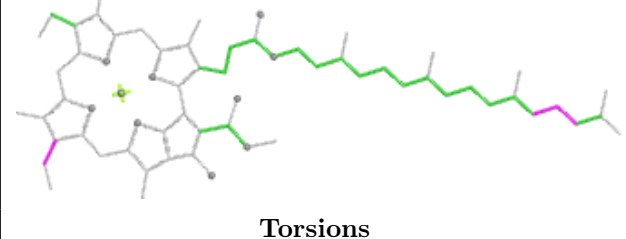
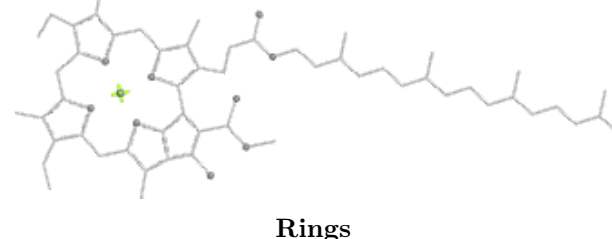


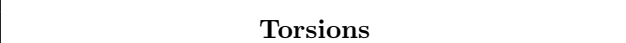




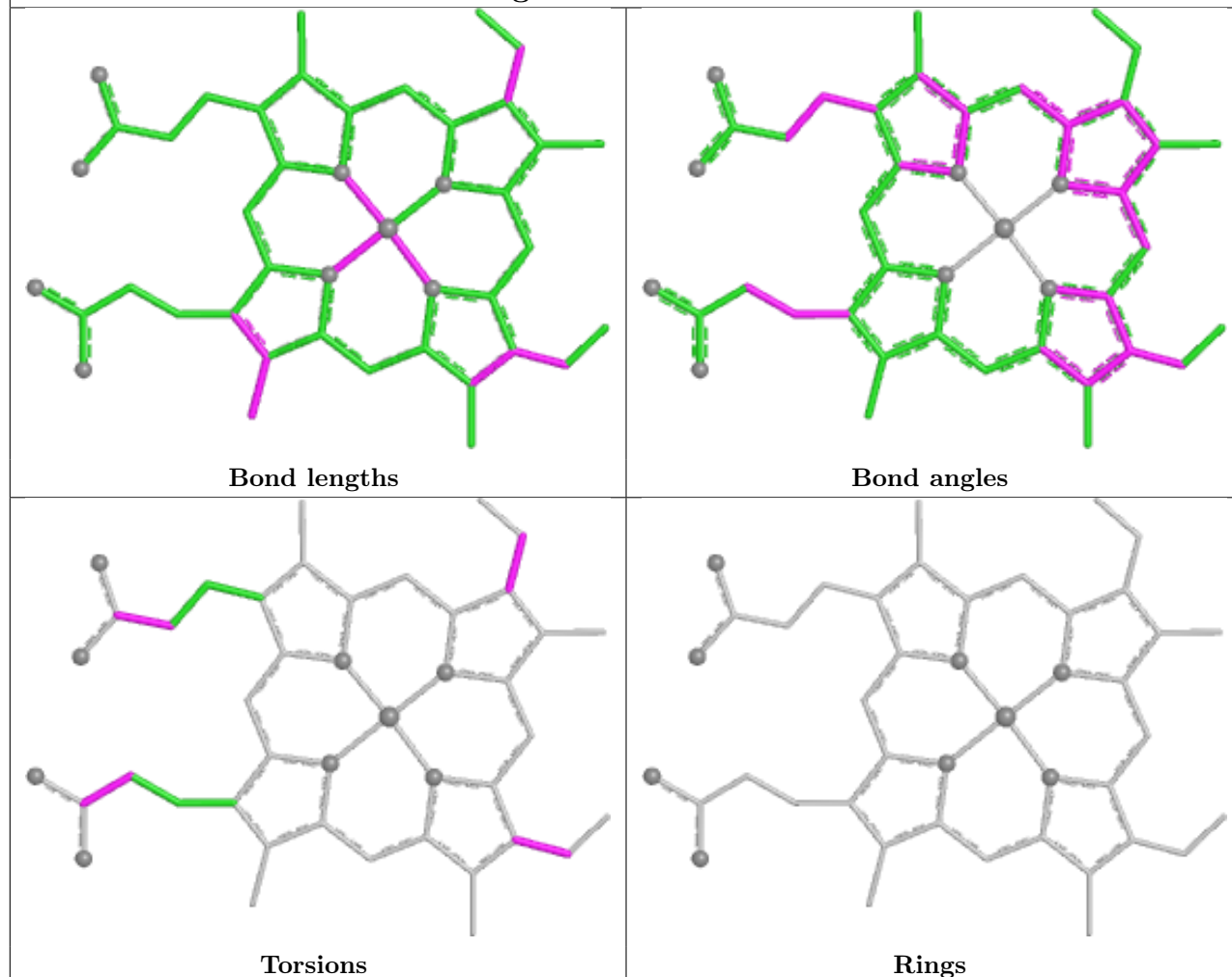


Ligand CLA c 508	
	
Bond lengths	Bond angles
	
Torsions	Rings

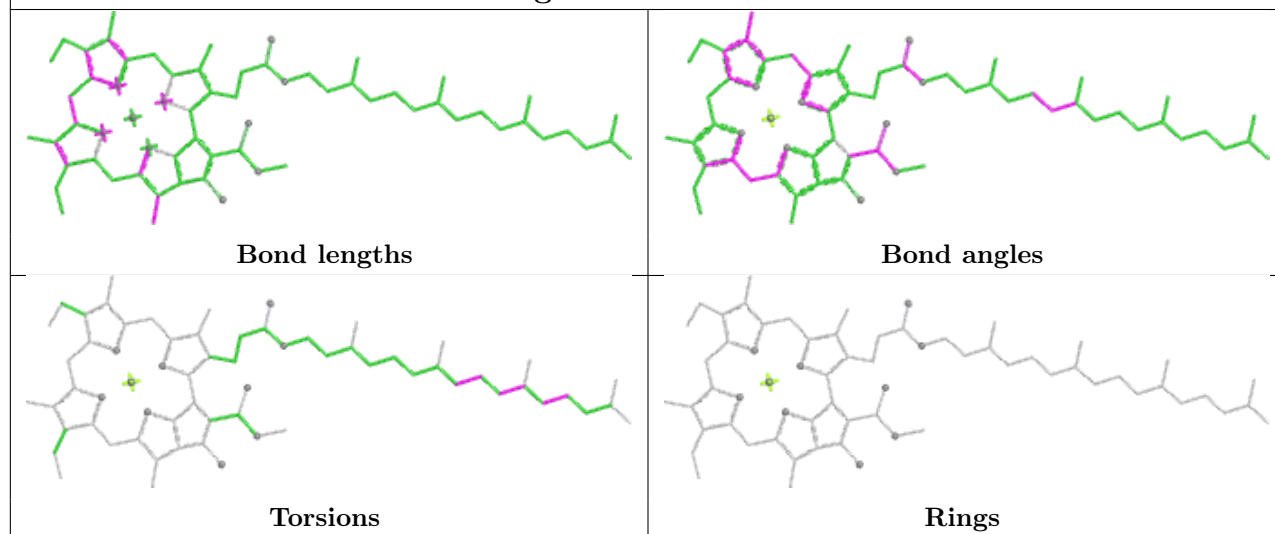
Ligand CLA A 605	
	
Bond lengths	Bond angles
	
Torsions	Rings

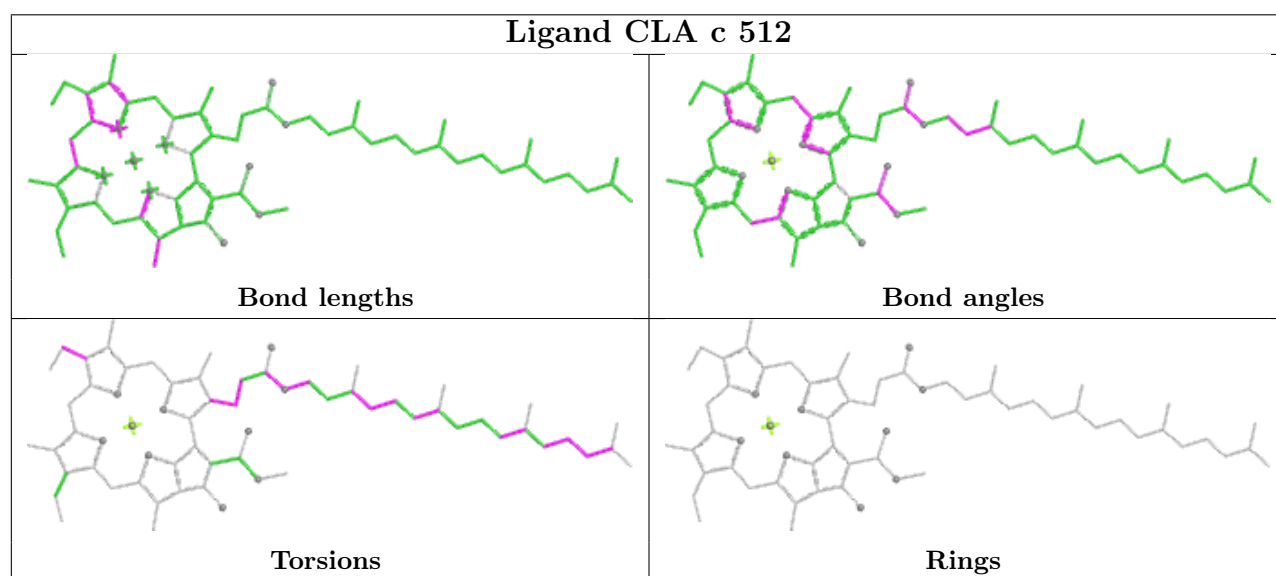
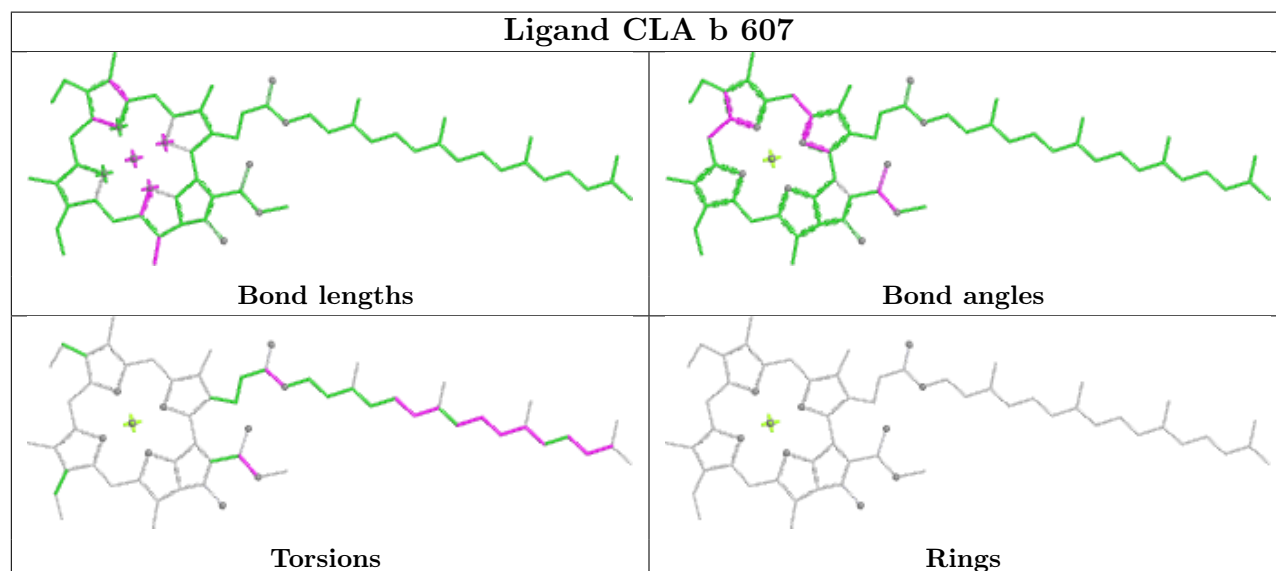
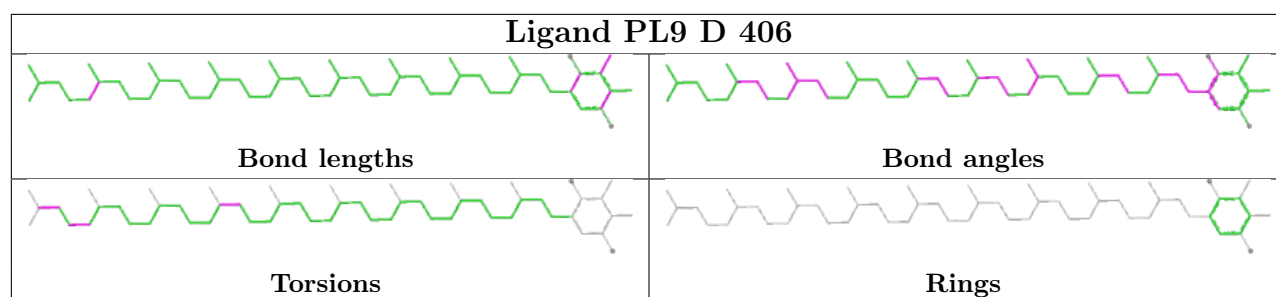
Ligand STE Z 101	
	
Bond lengths	Bond angles
	
Torsions	Rings

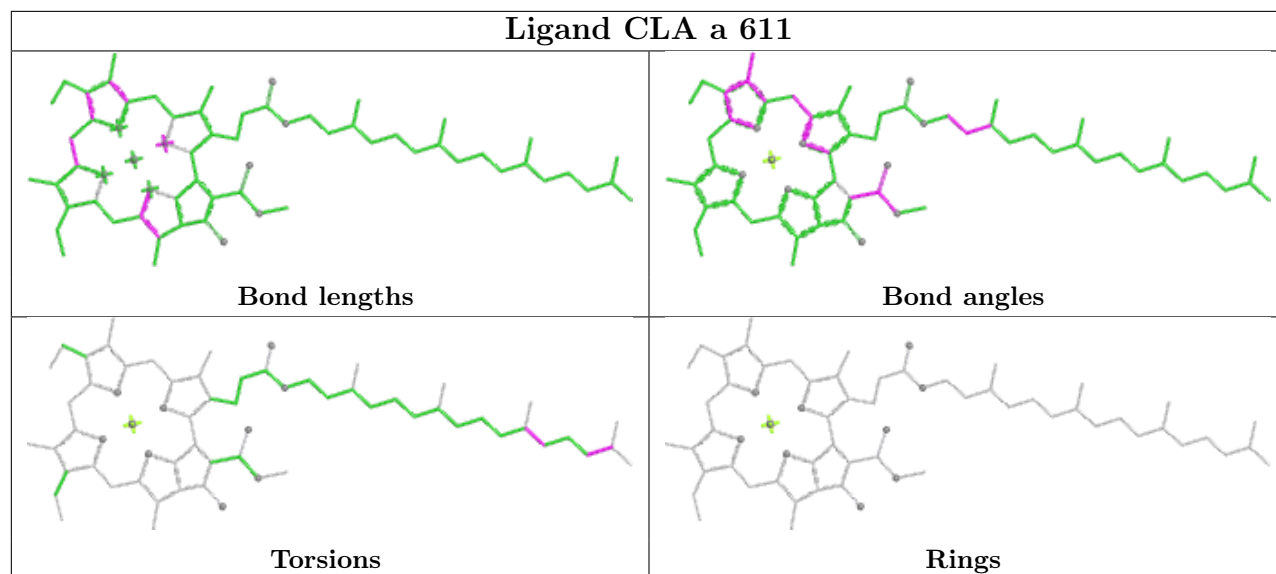
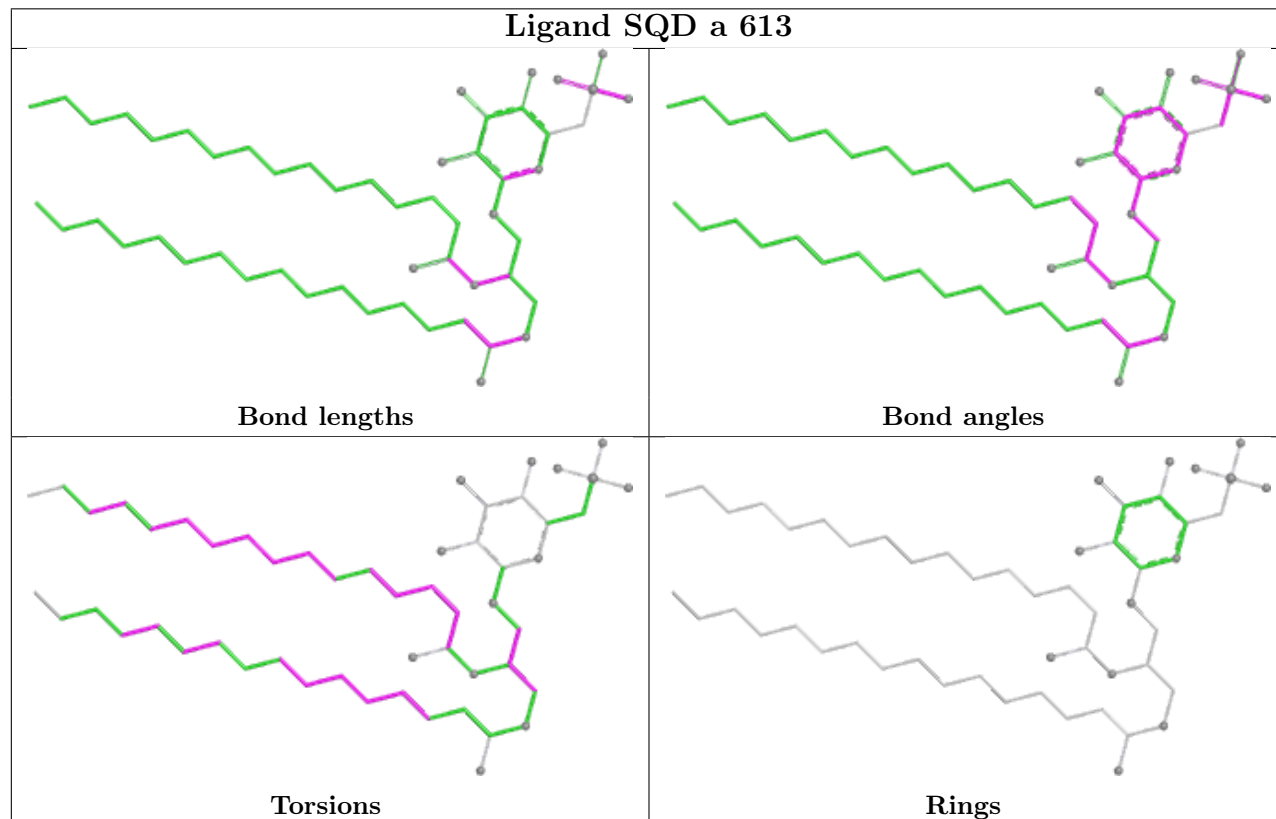
Ligand HEM e 102

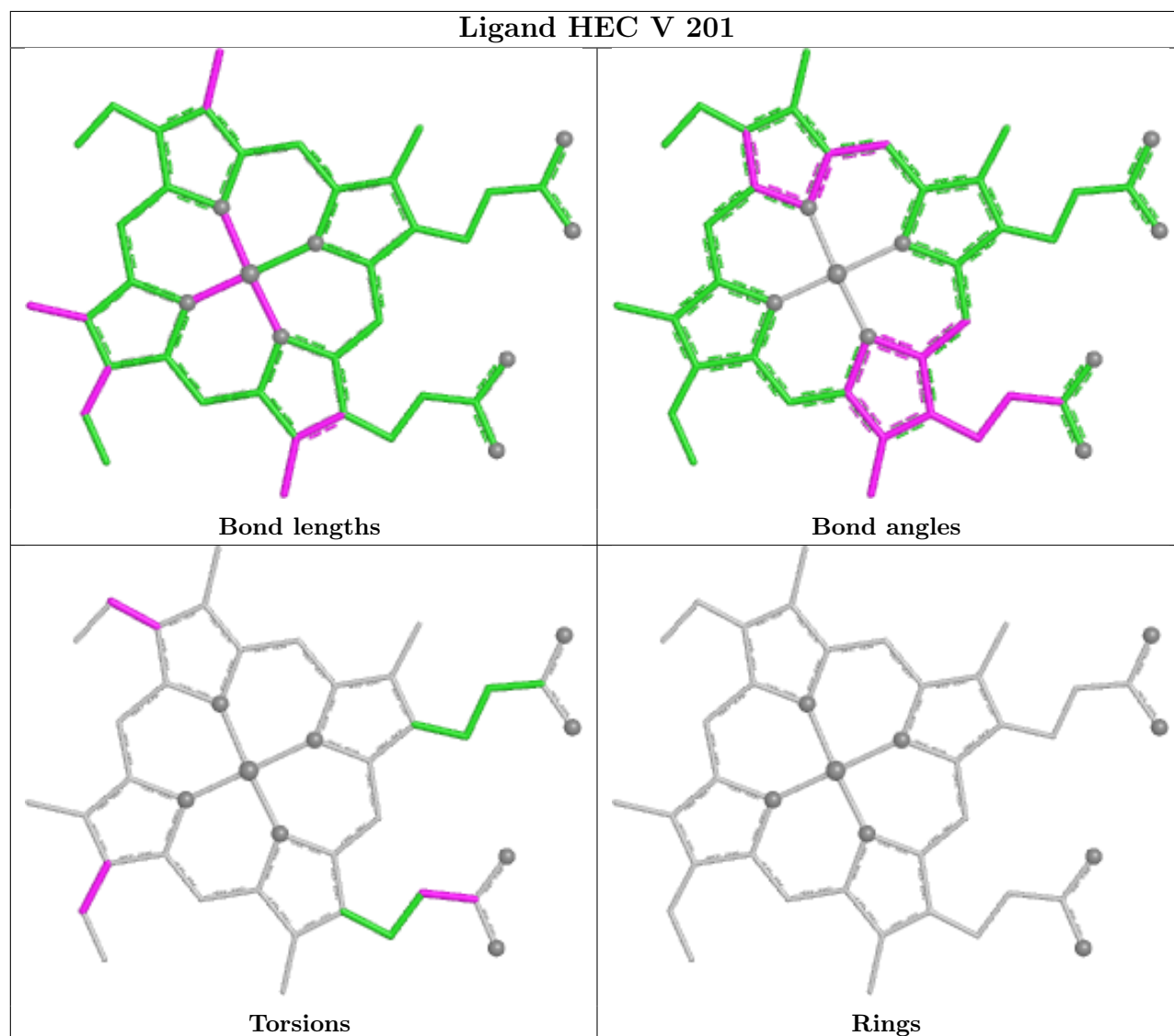
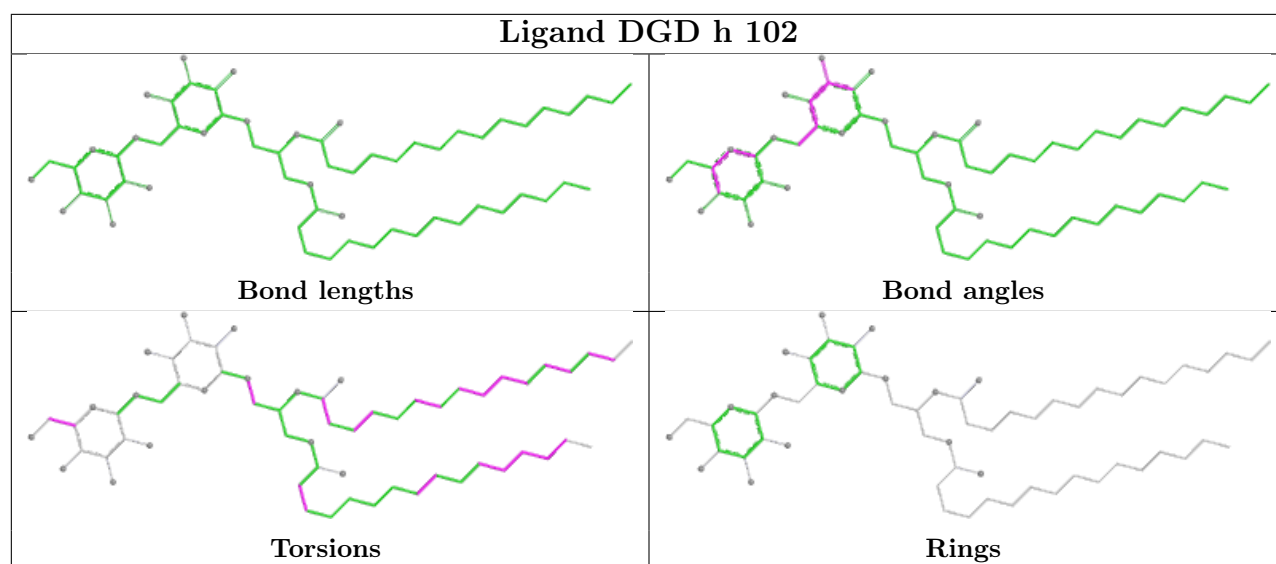


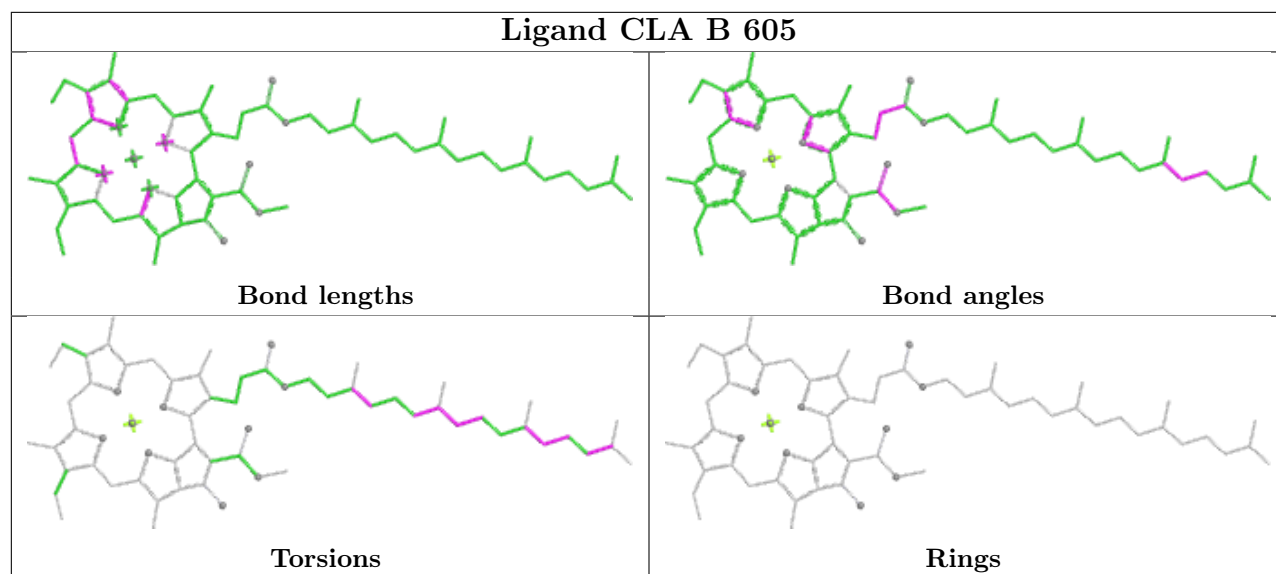
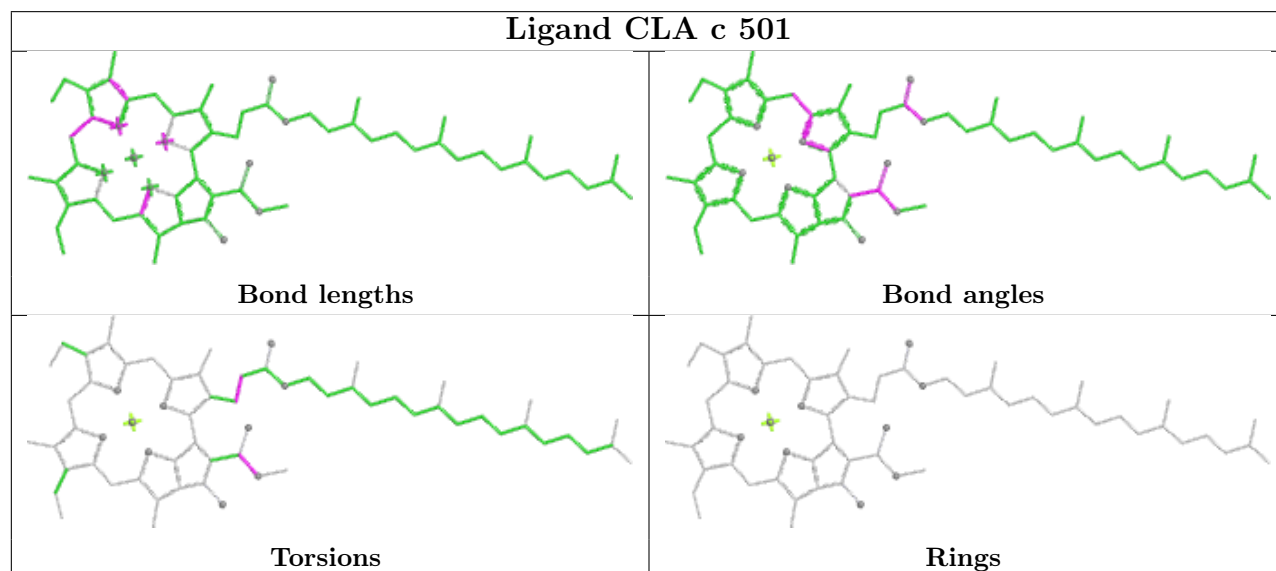
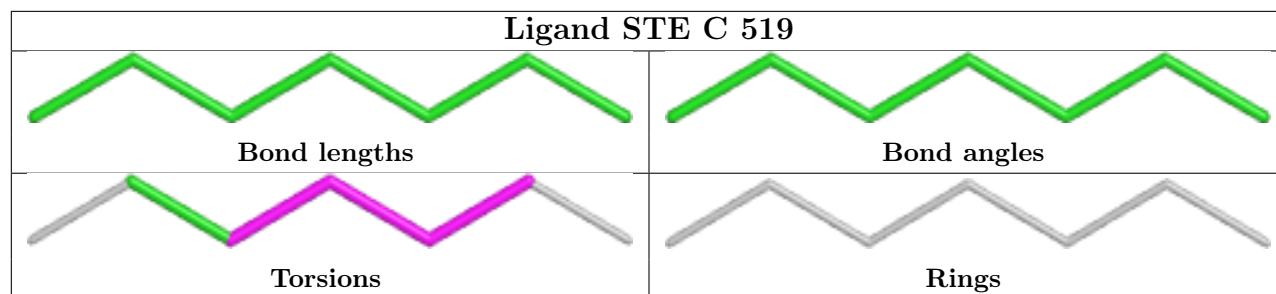
Ligand CLA b 608

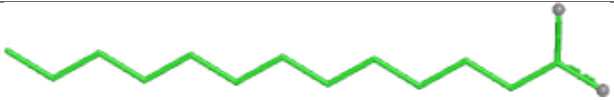
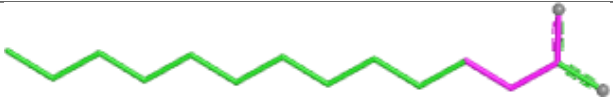
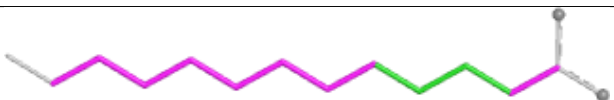
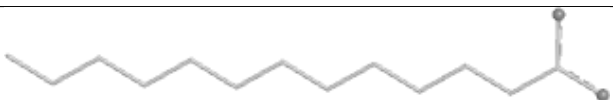




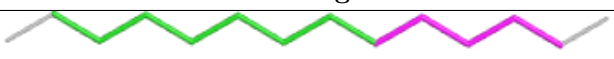
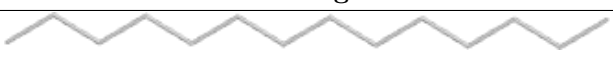
Ligand CLA a 611**Ligand SQD a 613**

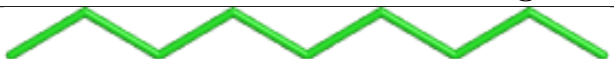
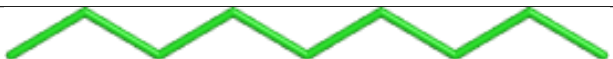
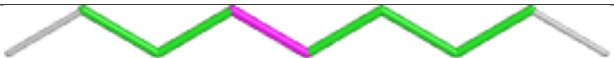


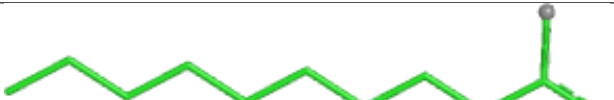
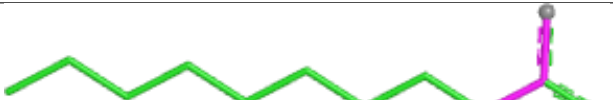


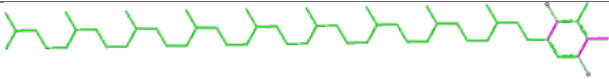
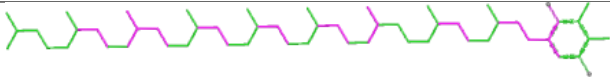
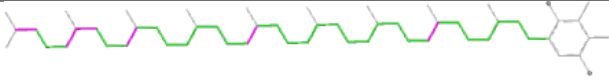
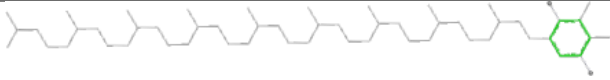
Ligand STE M 101	
 Bond lengths	 Bond angles
 Torsions	 Rings

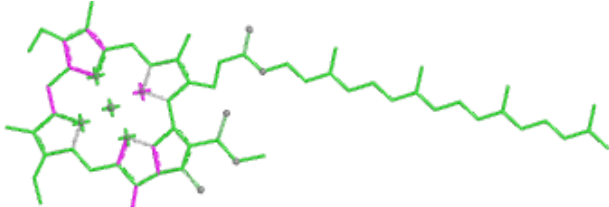
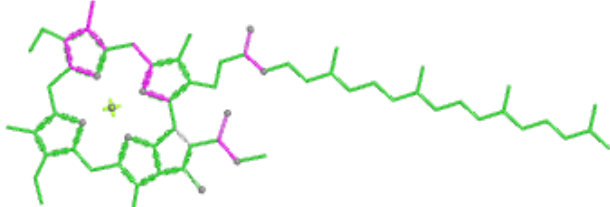
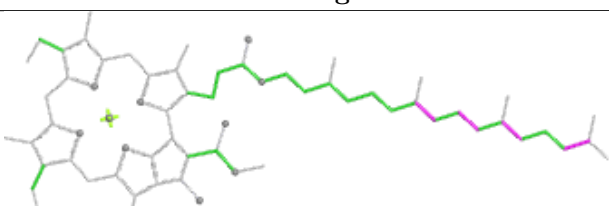
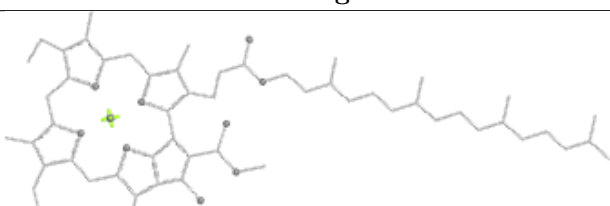
Ligand STE j 101	
 Bond lengths	 Bond angles
 Torsions	 Rings

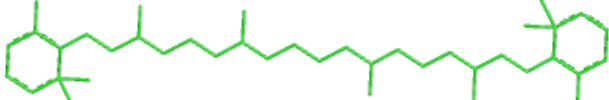
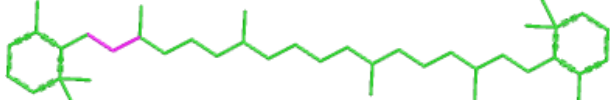
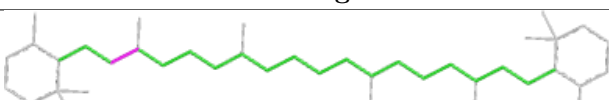
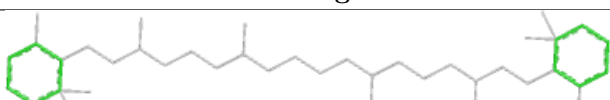
Ligand STE C 529	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand STE e 101	
 Bond lengths	 Bond angles
 Torsions	 Rings

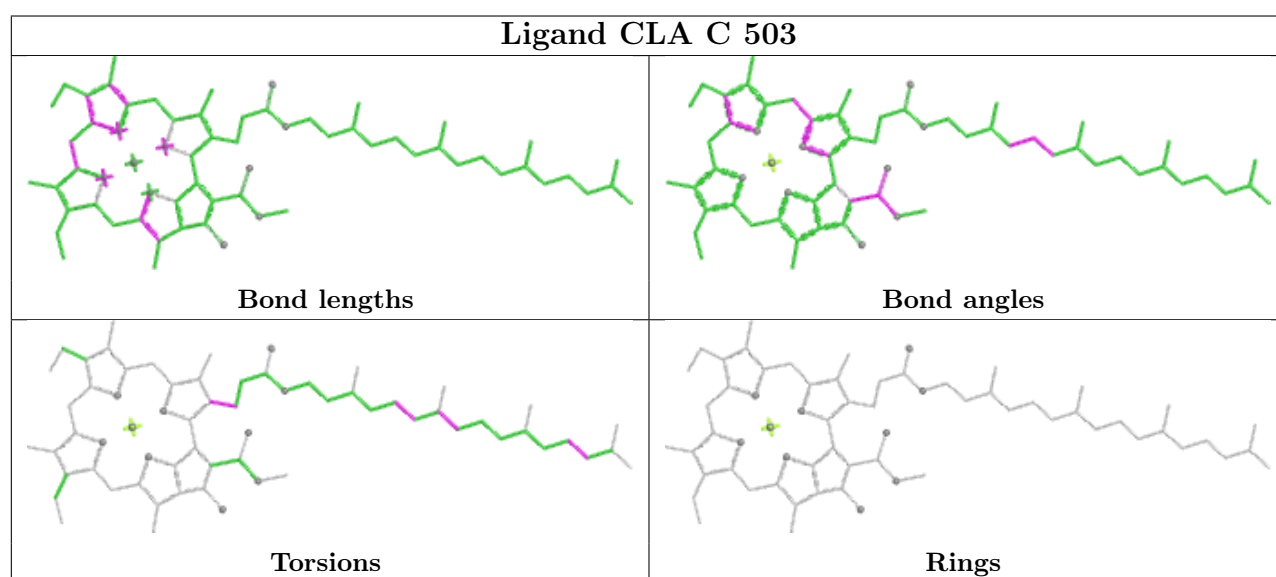
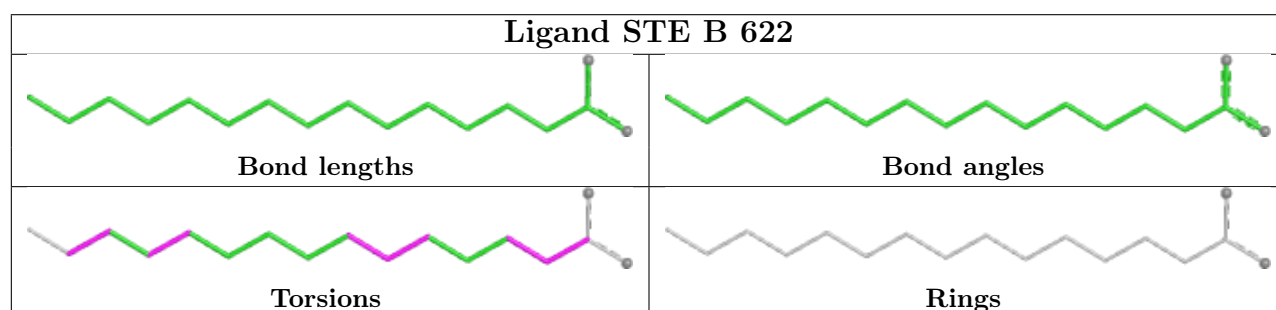
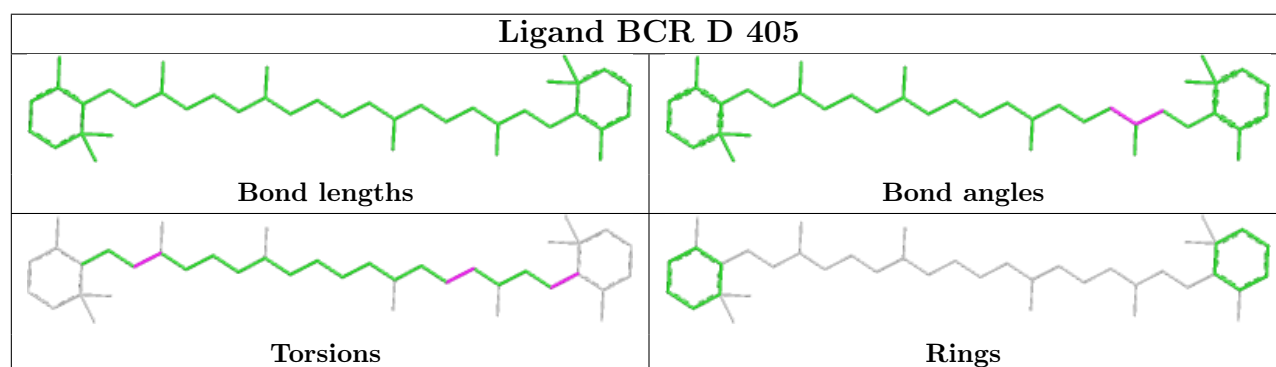
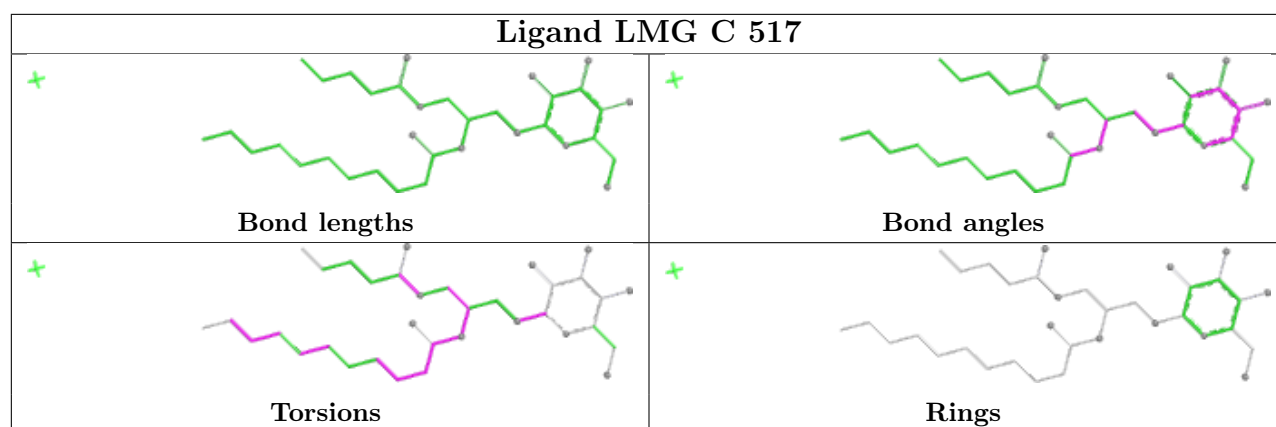
Ligand STE C 527	
 Bond lengths	 Bond angles
 Torsions	 Rings

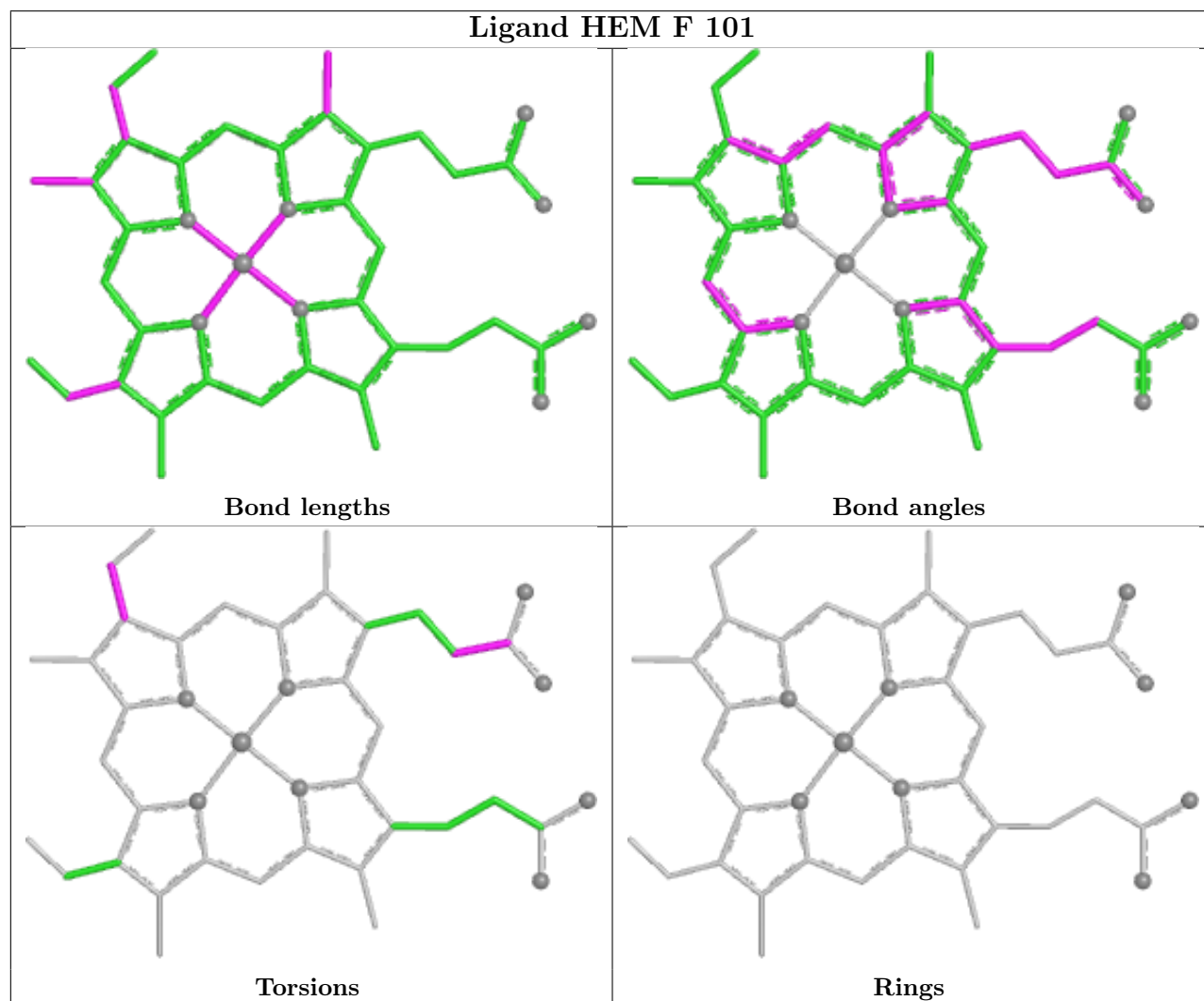
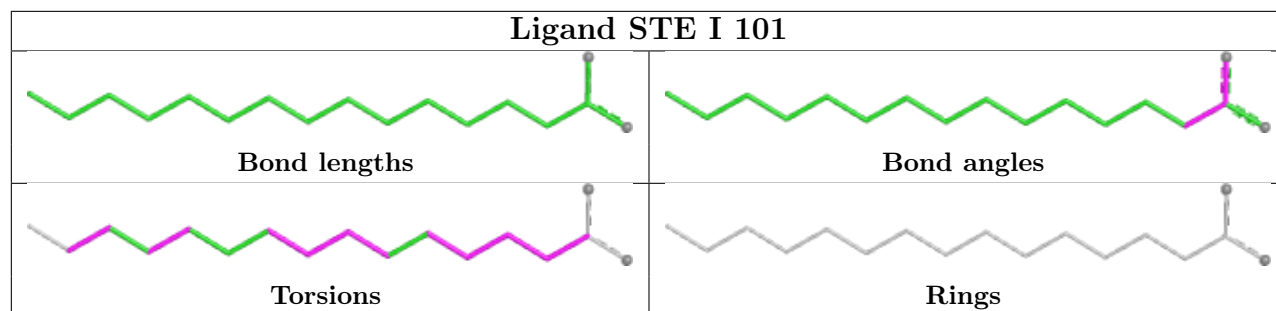
Ligand PL9 d 406	
 Bond lengths	 Bond angles
 Torsions	 Rings

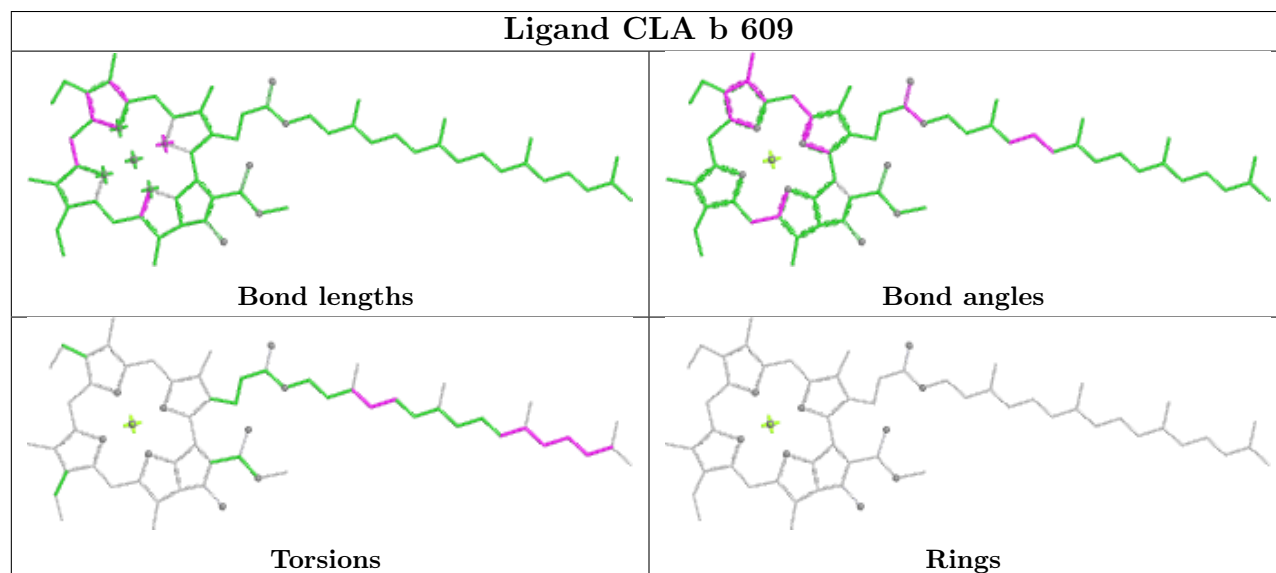
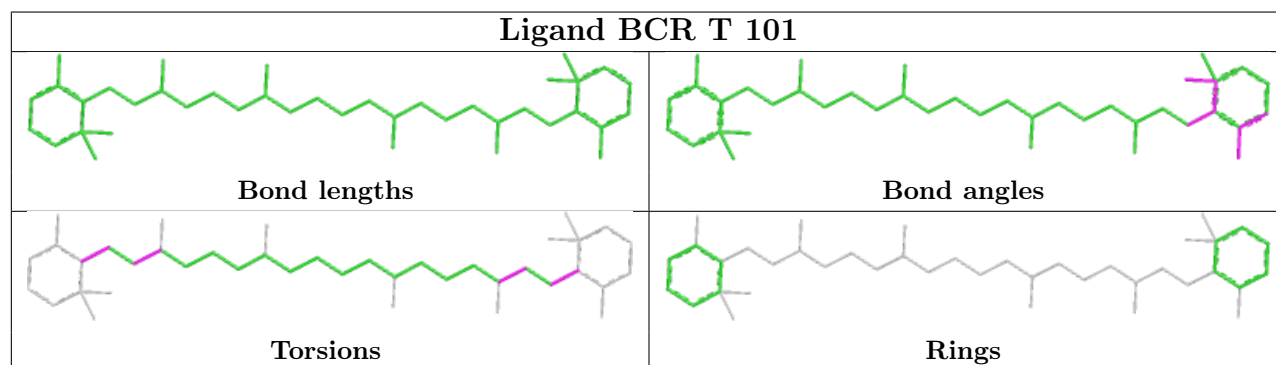
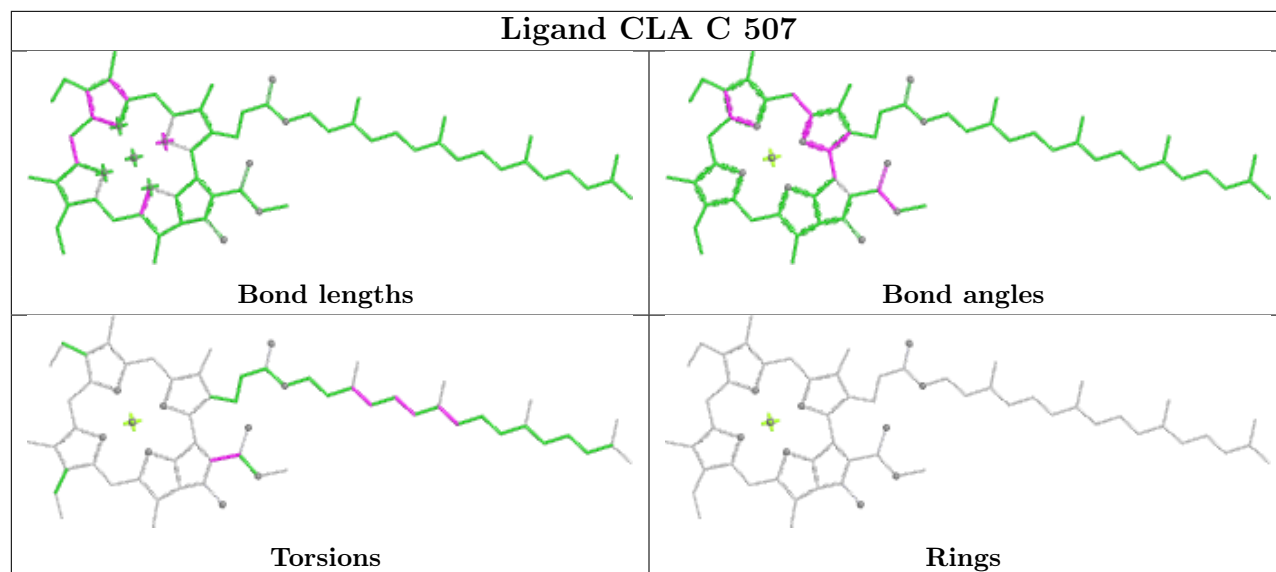
Ligand CLA C 510	
 Bond lengths	 Bond angles
 Torsions	 Rings

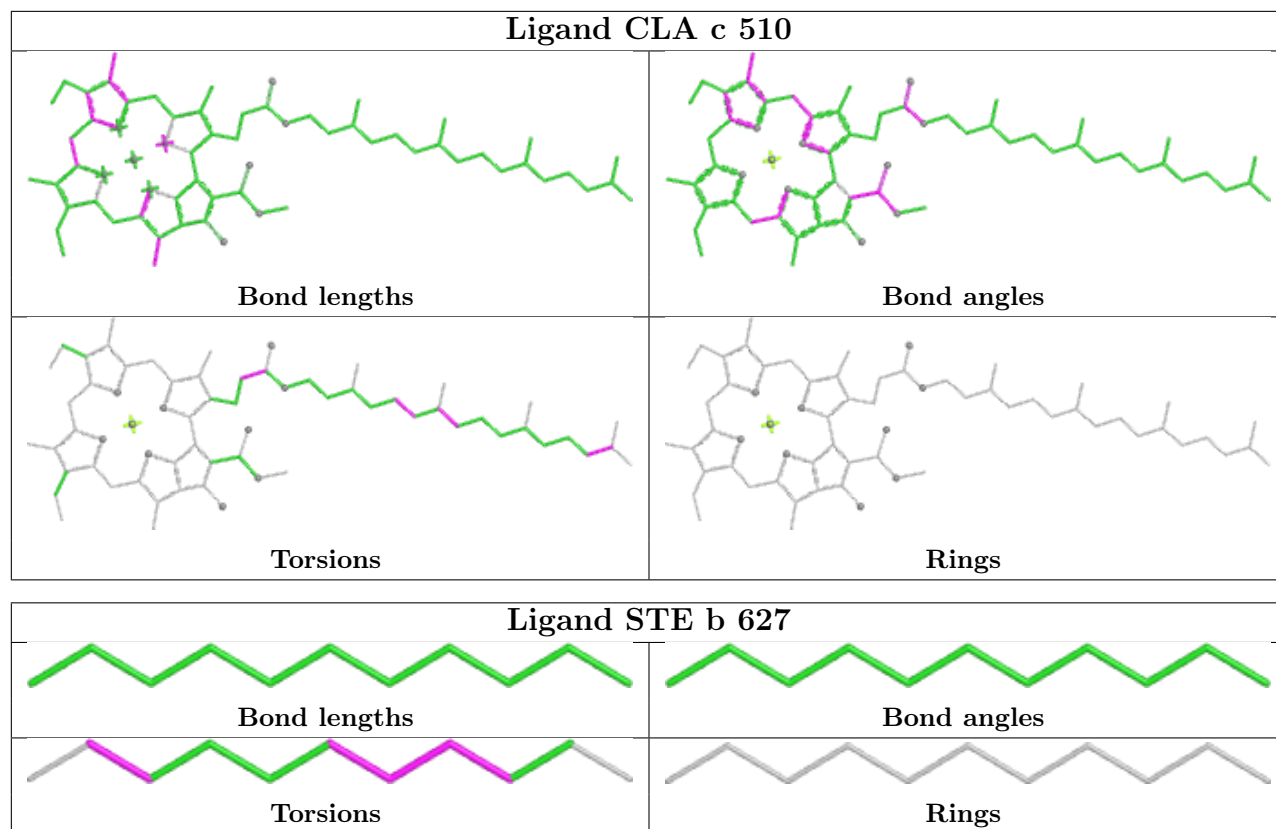
Ligand BCR k 102	
 Bond lengths	 Bond angles
 Torsions	 Rings

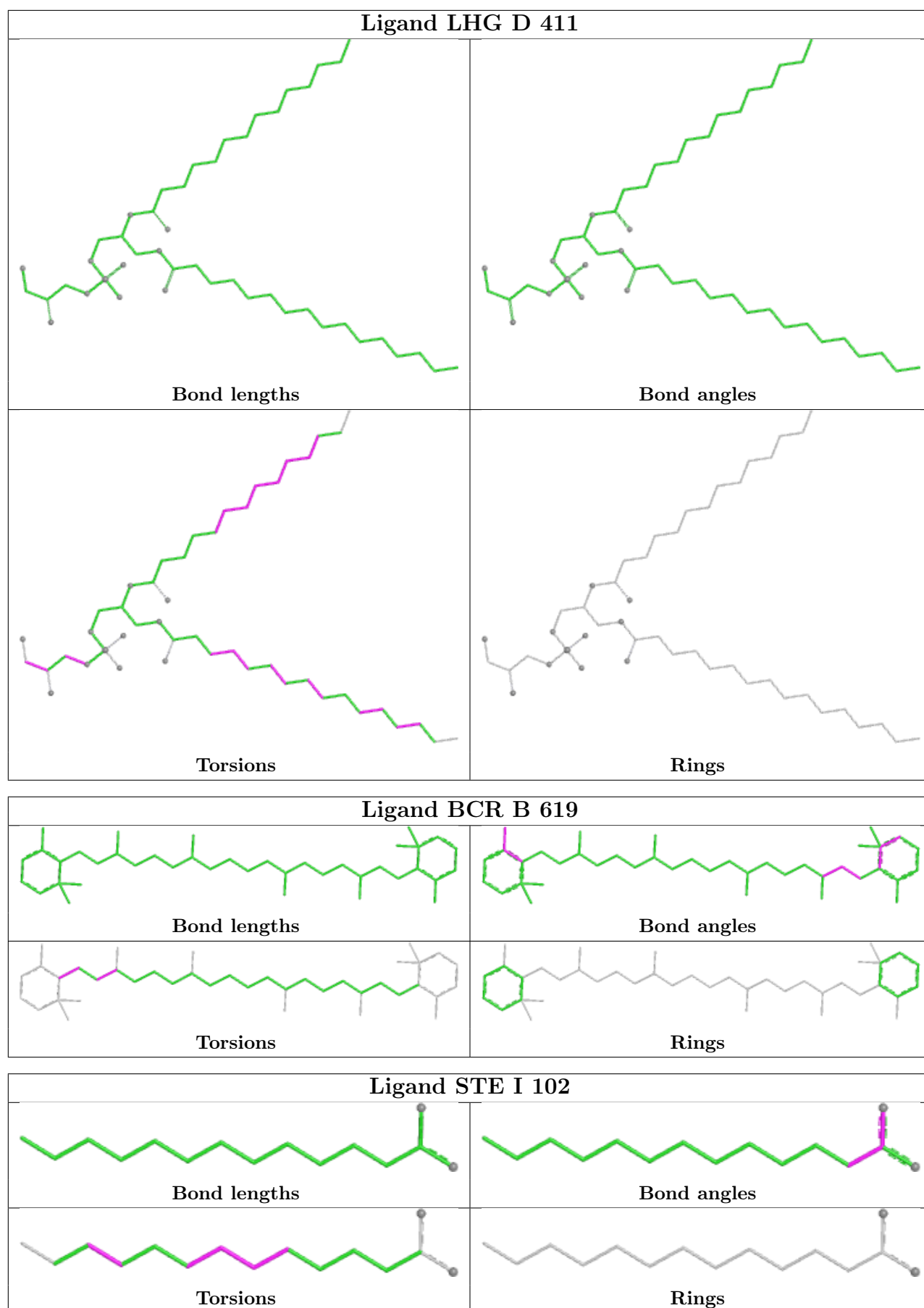
Ligand STE A 617	
 Bond lengths	 Bond angles
 Torsions	 Rings

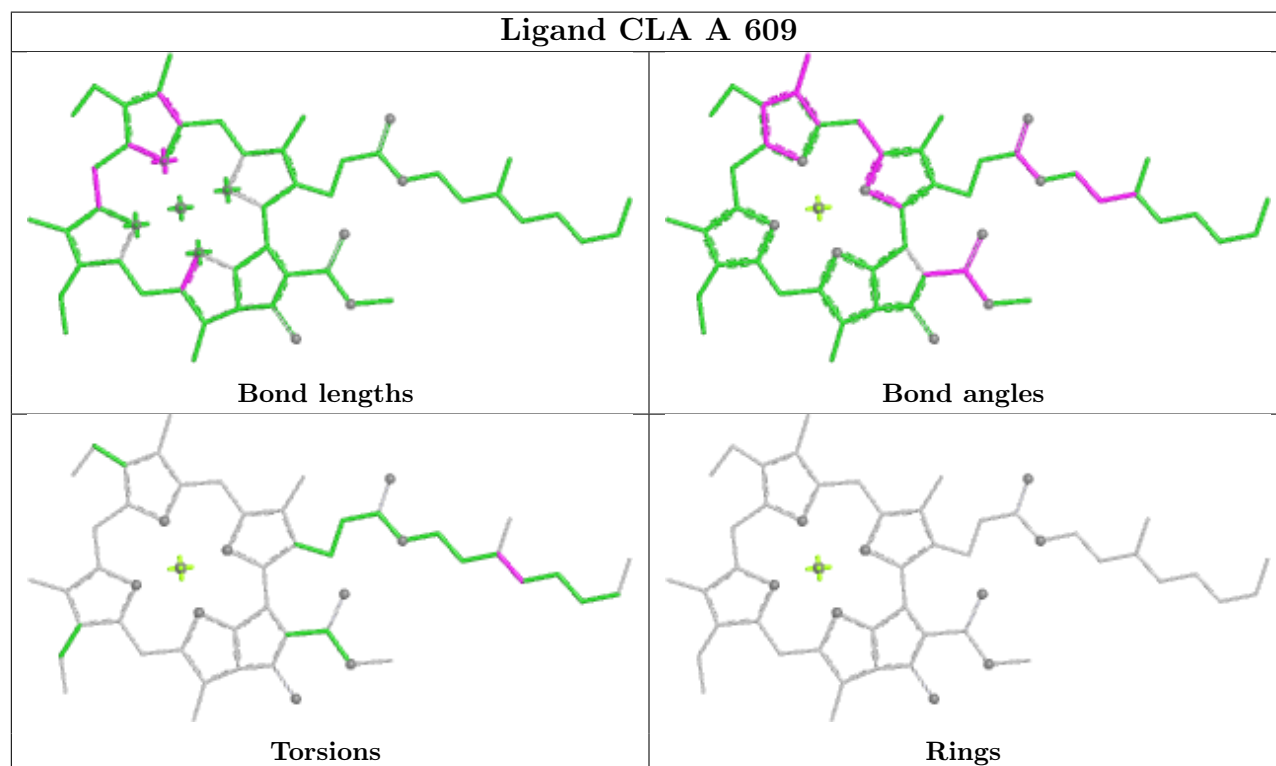
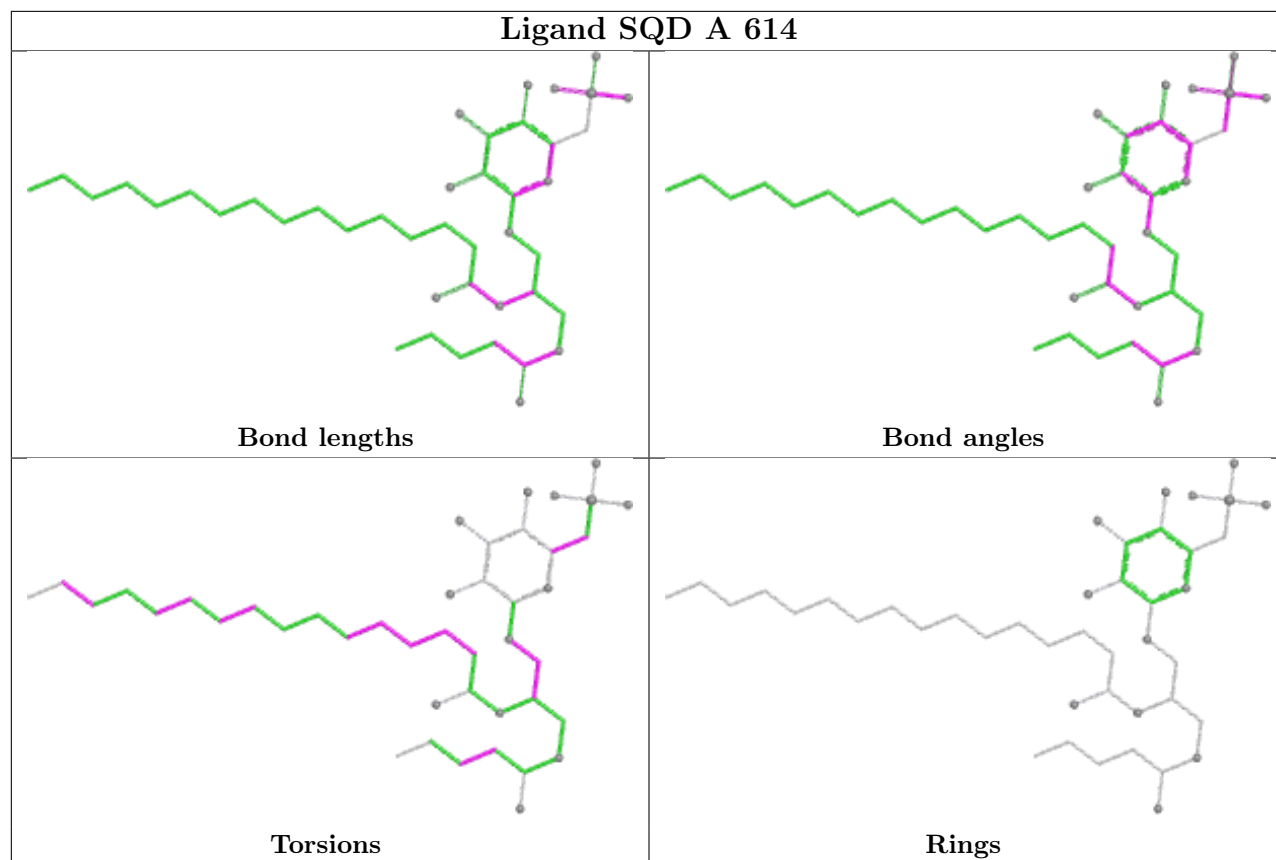




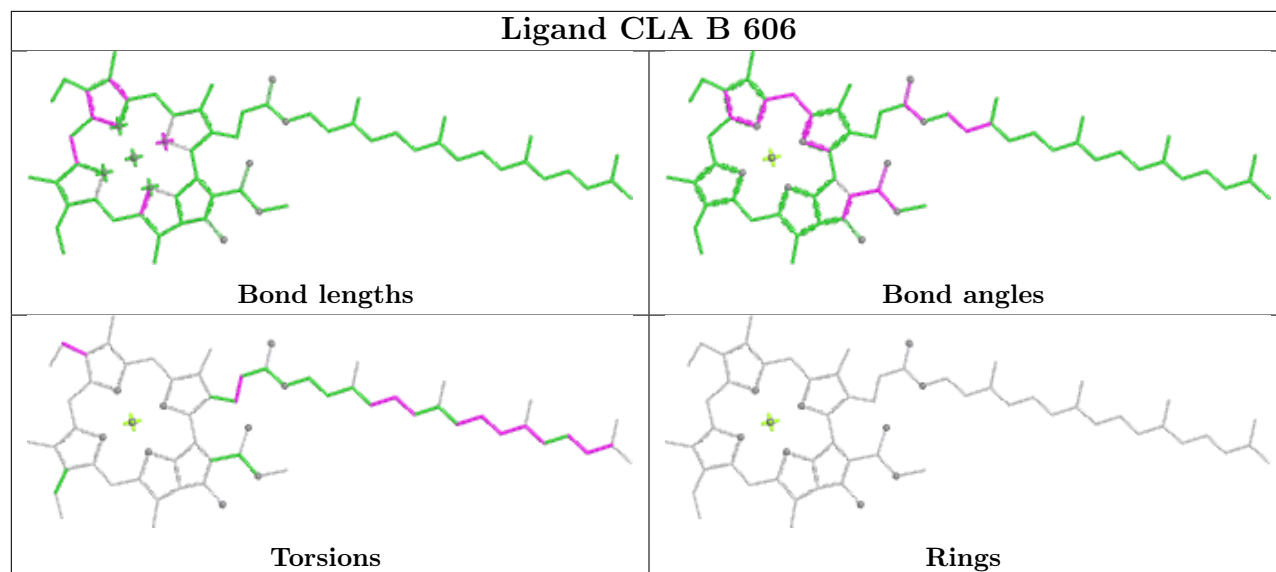




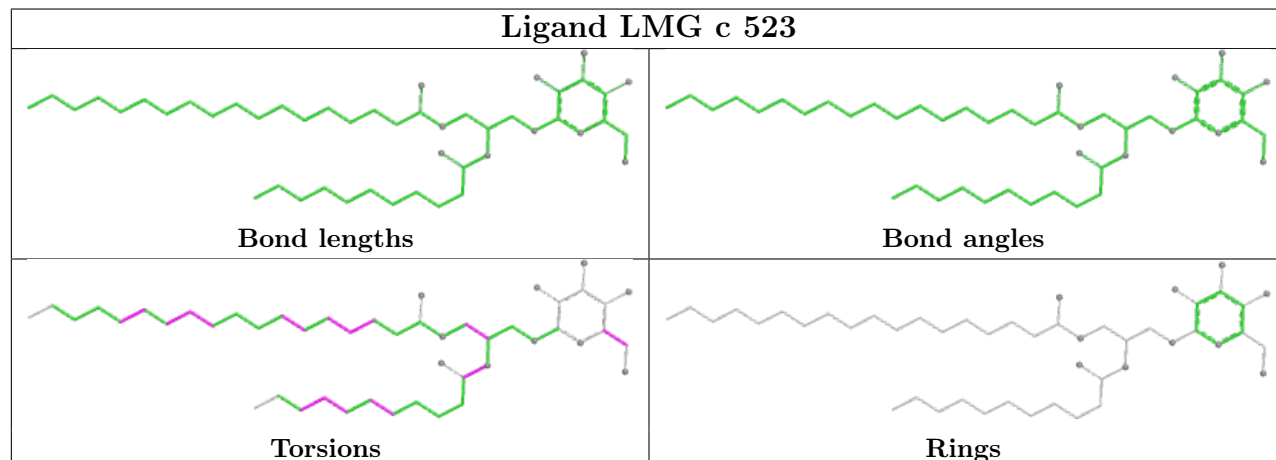




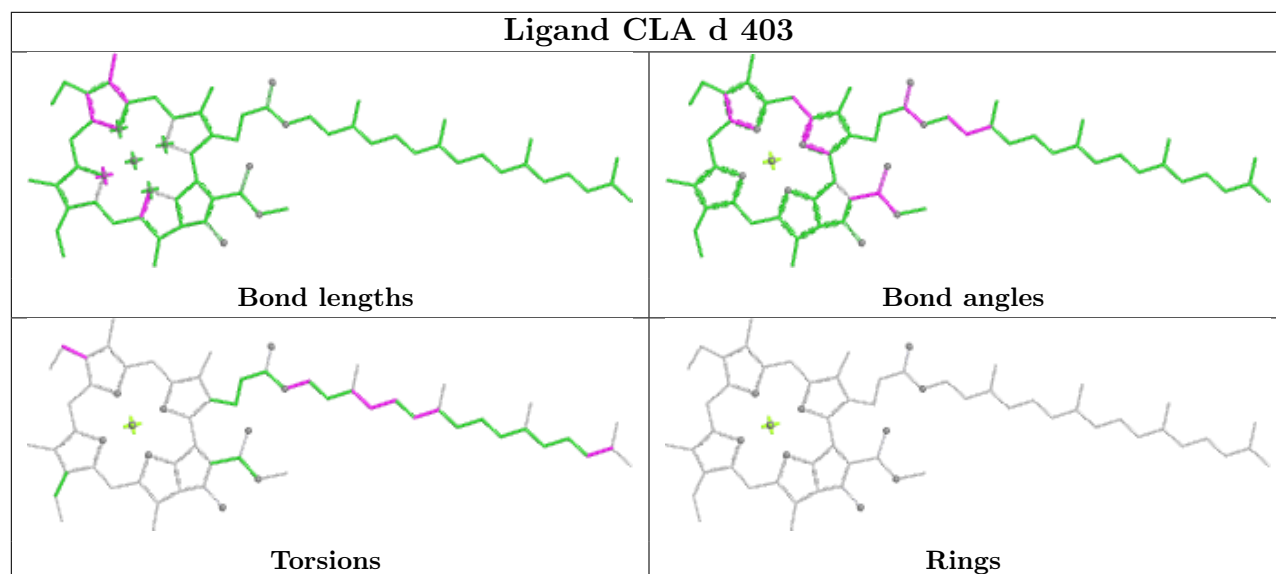
Ligand CLA B 606

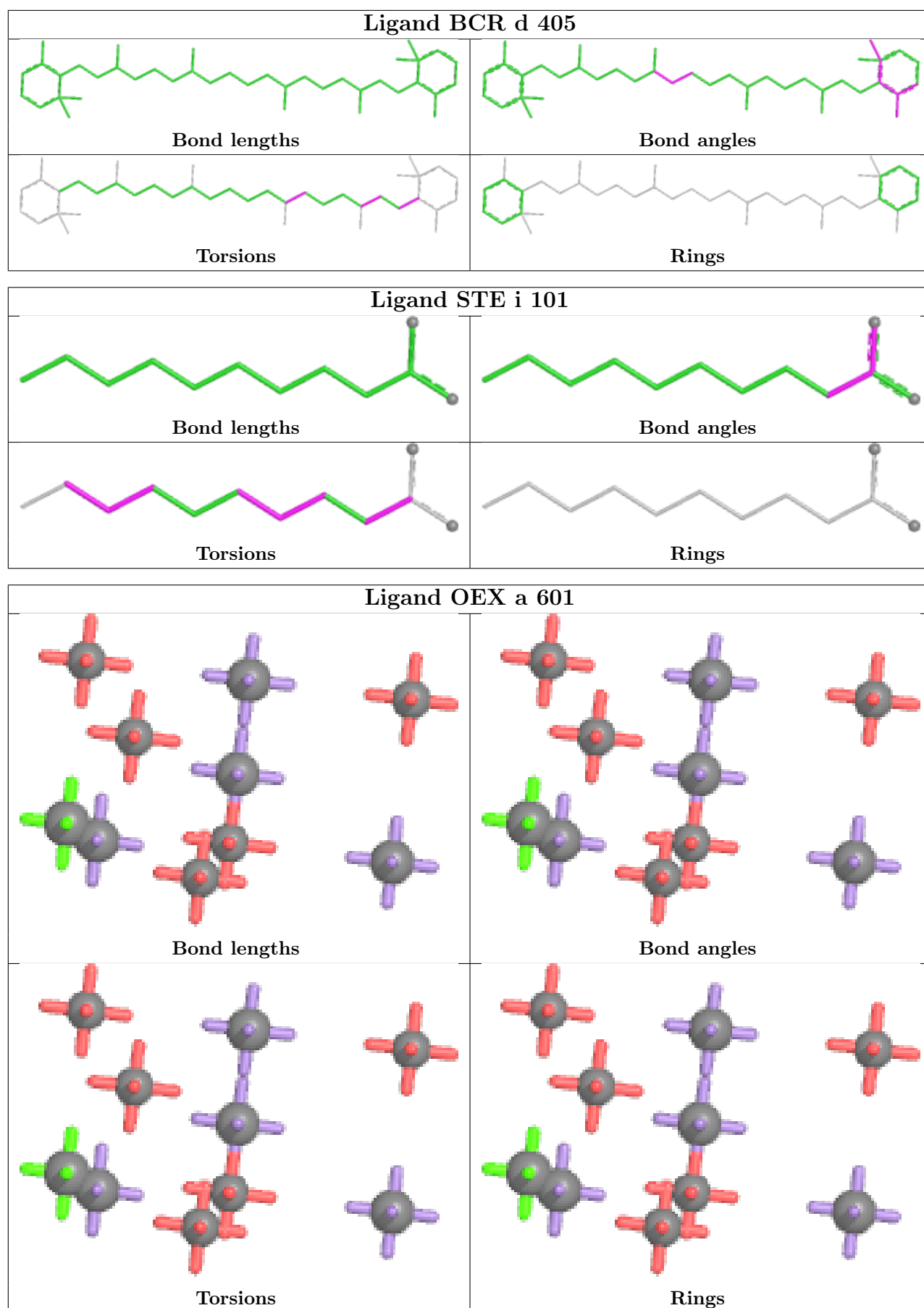


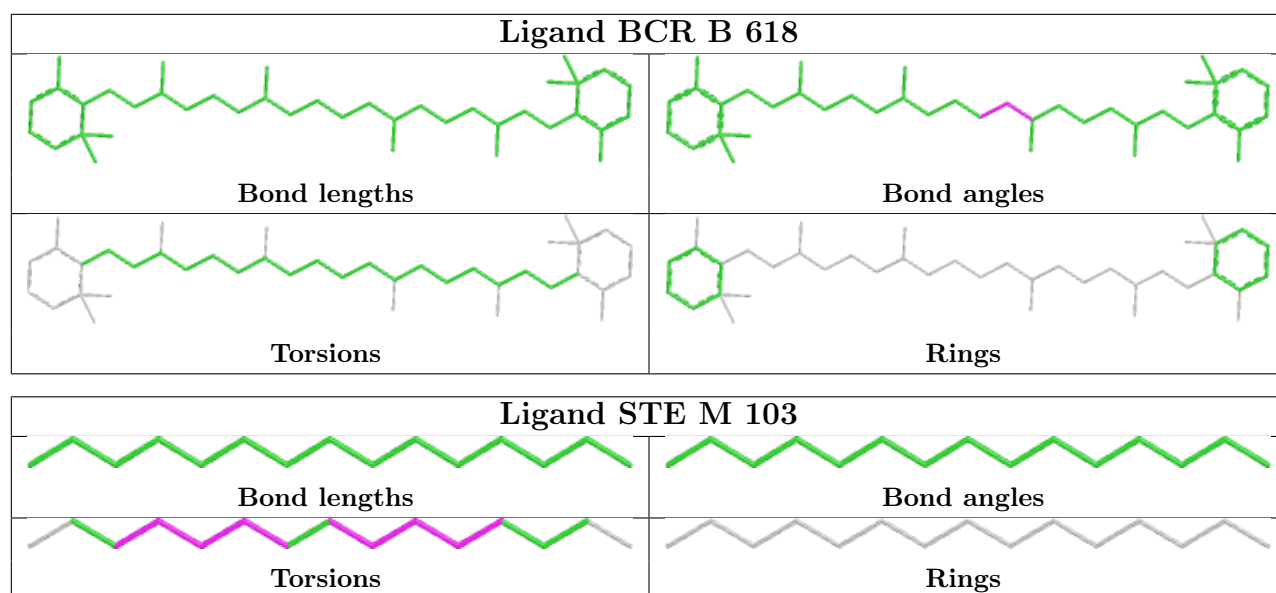
Ligand LMG c 523



Ligand CLA d 403







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	334/344 (97%)	-0.30	3 (0%) 81 86	23, 28, 47, 72	0
1	a	334/344 (97%)	-0.20	4 (1%) 76 83	23, 30, 57, 75	0
2	B	505/510 (99%)	-0.15	5 (0%) 79 86	18, 32, 61, 89	5 (0%)
2	b	505/510 (99%)	0.01	9 (1%) 67 76	26, 36, 69, 108	1 (0%)
3	C	442/461 (95%)	-0.06	1 (0%) 91 94	16, 35, 51, 73	1 (0%)
3	c	451/461 (97%)	0.09	5 (1%) 78 84	22, 40, 60, 90	2 (0%)
4	D	341/352 (96%)	-0.30	0 100 100	22, 30, 47, 77	0
4	d	341/352 (96%)	-0.12	3 (0%) 81 86	23, 34, 60, 78	1 (0%)
5	E	82/84 (97%)	0.62	4 (4%) 35 44	34, 52, 69, 85	1 (1%)
5	e	82/84 (97%)	0.76	3 (3%) 45 55	38, 60, 79, 87	0
6	F	34/45 (75%)	0.32	1 (2%) 53 63	37, 44, 62, 83	0
6	f	34/45 (75%)	0.59	0 100 100	43, 54, 77, 91	0
7	H	65/66 (98%)	0.22	1 (1%) 72 80	34, 40, 57, 73	0
7	h	63/66 (95%)	0.52	2 (3%) 50 60	42, 51, 61, 64	0
8	I	35/38 (92%)	-0.11	1 (2%) 53 63	32, 38, 60, 76	0
8	i	35/38 (92%)	0.19	1 (2%) 53 63	31, 39, 67, 87	0
9	J	36/40 (90%)	0.56	1 (2%) 55 65	36, 50, 80, 93	0
9	j	36/40 (90%)	0.58	0 100 100	41, 56, 85, 89	0
10	K	37/46 (80%)	0.48	0 100 100	42, 51, 67, 74	0
10	k	37/46 (80%)	0.61	0 100 100	49, 57, 70, 83	0
11	L	37/37 (100%)	-0.29	0 100 100	26, 28, 57, 64	0
11	l	36/37 (97%)	-0.33	0 100 100	27, 30, 63, 76	0
12	M	32/36 (88%)	-0.16	0 100 100	27, 32, 54, 73	0
12	m	31/36 (86%)	-0.26	0 100 100	29, 33, 49, 58	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	O	244/272 (89%)	0.05	1 (0%) 88 92	25, 41, 75, 120	1 (0%)
13	o	244/272 (89%)	0.14	4 (1%) 70 79	25, 40, 74, 116	0
14	T	29/32 (90%)	-0.32	1 (3%) 48 58	27, 31, 53, 71	0
14	t	29/32 (90%)	-0.22	2 (6%) 23 30	27, 31, 64, 82	0
15	U	97/134 (72%)	0.07	0 100 100	32, 42, 65, 85	0
15	u	97/134 (72%)	-0.03	1 (1%) 79 86	30, 40, 56, 82	0
16	V	137/163 (84%)	-0.04	0 100 100	28, 39, 54, 65	0
16	v	137/163 (84%)	0.25	1 (0%) 84 89	35, 48, 66, 79	0
17	Y	27/46 (58%)	1.50	8 (29%) 1 1	52, 68, 92, 97	0
17	y	30/46 (65%)	1.04	2 (6%) 24 31	61, 72, 82, 96	0
18	X	38/41 (92%)	0.38	3 (7%) 18 25	41, 52, 70, 76	0
18	x	39/41 (95%)	0.61	2 (5%) 33 43	50, 60, 79, 94	0
19	Z	62/62 (100%)	1.05	6 (9%) 13 19	54, 66, 106, 113	0
19	z	62/62 (100%)	1.16	7 (11%) 10 13	61, 74, 110, 124	0
20	R	28/41 (68%)	1.22	4 (14%) 6 8	61, 69, 85, 88	0
20	r	28/41 (68%)	1.95	14 (50%) 0 0	74, 90, 110, 118	0
All	All	5293/5700 (92%)	0.05	100 (1%) 66 75	16, 37, 72, 124	12 (0%)

The worst 5 of 100 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
13	o	58	ASN	4.5
3	c	24	THR	4.3
20	r	28	VAL	4.2
19	z	33	TRP	3.5
7	h	64	ALA	3.5

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
12	FME	M	1	10/11	0.92	0.11	38,43,54,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
14	FME	T	1	10/11	0.92	0.09	29,35,52,63	0
8	FME	I	1	10/11	0.94	0.08	36,42,51,53	0
14	FME	t	1	10/11	0.94	0.07	29,32,49,54	0
8	FME	i	1	10/11	0.96	0.09	39,44,49,49	0
12	FME	m	1	10/11	0.97	0.06	30,42,54,66	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
28	STE	C	520	10/20	0.59	0.19	54,61,68,74	0
28	STE	i	101	12/20	0.66	0.14	62,79,95,95	0
28	STE	C	529	14/20	0.67	0.20	61,69,80,83	0
28	STE	A	618	11/20	0.67	0.20	53,64,75,76	0
28	STE	i	102	6/20	0.67	0.19	50,62,74,76	0
28	STE	j	102	16/20	0.68	0.20	59,70,88,88	0
28	STE	C	518	5/20	0.69	0.21	50,57,60,62	0
28	STE	E	104	20/20	0.71	0.17	48,67,76,76	0
28	STE	E	103	12/20	0.71	0.19	64,74,95,98	0
31	LMG	D	407	50/55	0.71	0.16	39,64,91,91	0
28	STE	I	101	17/20	0.72	0.16	57,66,78,81	0
28	STE	c	517	18/20	0.72	0.19	60,72,83,84	0
27	PL9	a	610	55/55	0.72	0.21	47,66,78,84	0
28	STE	A	617	17/20	0.73	0.14	55,61,68,72	0
28	STE	e	101	9/20	0.73	0.21	67,73,80,81	0
31	LMG	c	518	30/55	0.73	0.17	48,75,82,84	0
33	LHG	E	101	49/49	0.73	0.17	45,75,98,105	0
28	STE	C	516	14/20	0.74	0.18	52,61,67,68	0
27	PL9	A	611	55/55	0.75	0.19	43,62,75,78	0
28	STE	b	625	16/20	0.75	0.21	57,60,83,83	0
31	LMG	C	517	36/55	0.75	0.16	50,58,68,75	0
28	STE	B	626	12/20	0.75	0.16	48,55,72,75	0
28	STE	H	103	18/20	0.75	0.18	57,66,72,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
28	STE	H	104	9/20	0.75	0.19	52,61,65,67	0
28	STE	d	413	10/20	0.76	0.18	63,69,75,76	0
31	LMG	a	615	55/55	0.76	0.15	39,55,70,76	0
33	LHG	e	103	42/49	0.76	0.16	51,79,97,102	0
28	STE	A	612	9/20	0.77	0.15	57,58,68,70	0
28	STE	d	414	14/20	0.77	0.16	62,69,81,84	0
28	STE	K	102	14/20	0.77	0.14	52,59,70,75	0
28	STE	B	627	15/20	0.78	0.22	45,59,76,77	0
28	STE	E	102	12/20	0.78	0.17	64,74,79,80	0
30	DGD	A	615	66/66	0.78	0.15	46,58,78,85	0
28	STE	b	621	16/20	0.79	0.19	40,49,76,79	0
31	LMG	B	620	45/55	0.79	0.15	39,51,80,87	0
31	LMG	c	523	48/55	0.79	0.15	51,66,77,81	0
28	STE	C	527	12/20	0.79	0.17	40,48,55,59	0
28	STE	e	105	9/20	0.79	0.19	64,68,74,78	0
28	STE	C	519	7/20	0.80	0.18	51,59,62,64	0
28	STE	e	106	13/20	0.80	0.17	70,76,84,89	0
28	STE	a	617	12/20	0.81	0.13	55,63,73,75	0
31	LMG	b	624	55/55	0.81	0.15	50,62,73,82	0
28	STE	t	102	10/20	0.82	0.14	44,51,57,61	0
28	STE	c	516	13/20	0.83	0.16	62,68,72,74	0
28	STE	e	104	8/20	0.83	0.18	59,60,67,69	0
28	STE	Z	101	17/20	0.83	0.19	46,67,82,84	0
28	STE	d	407	20/20	0.83	0.14	47,53,76,79	0
28	STE	d	410	20/20	0.83	0.14	52,63,83,84	0
28	STE	d	412	20/20	0.83	0.13	40,56,65,71	0
28	STE	B	625	18/20	0.83	0.13	41,49,73,75	0
28	STE	b	627	11/20	0.83	0.20	58,63,67,67	0
28	STE	z	101	9/20	0.83	0.22	59,68,68,70	0
29	SQD	a	614	54/54	0.83	0.13	43,55,83,87	0
28	STE	J	101	12/20	0.84	0.13	51,54,65,65	0
28	STE	B	622	17/20	0.84	0.14	35,48,65,67	0
28	STE	b	623	20/20	0.85	0.13	41,52,64,66	0
29	SQD	f	101	41/54	0.85	0.14	59,74,85,89	0
28	STE	I	102	15/20	0.85	0.14	42,48,61,63	0
28	STE	b	626	10/20	0.85	0.14	46,53,60,72	0
24	CLA	b	601	65/65	0.85	0.12	47,64,87,93	0
29	SQD	A	614	43/54	0.85	0.11	38,50,80,85	0
28	STE	j	101	12/20	0.86	0.12	51,57,61,63	0
28	STE	D	413	20/20	0.86	0.13	36,46,73,80	0
28	STE	M	103	15/20	0.86	0.14	44,51,72,72	0
31	LMG	B	621	51/55	0.86	0.12	29,48,58,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
28	STE	C	528	16/20	0.87	0.13	40,48,55,61	0
29	SQD	b	620	49/54	0.87	0.11	41,57,72,76	0
28	STE	M	101	15/20	0.87	0.12	37,44,55,67	0
31	LMG	c	522	46/55	0.87	0.12	44,65,74,75	0
31	LMG	C	522	48/55	0.87	0.12	37,55,63,67	0
31	LMG	C	526	48/55	0.87	0.14	47,63,78,83	0
29	SQD	B	623	54/54	0.87	0.11	41,52,66,70	0
28	STE	m	101	12/20	0.88	0.12	45,48,62,67	0
28	STE	A	616	8/20	0.88	0.13	52,55,58,59	0
31	LMG	a	616	49/55	0.89	0.12	38,54,63,71	0
31	LMG	b	622	51/55	0.89	0.10	36,48,58,68	0
28	STE	B	624	14/20	0.89	0.11	41,48,56,62	0
26	BCR	k	101	40/40	0.89	0.11	48,58,65,66	0
28	STE	M	102	10/20	0.89	0.14	44,47,53,59	0
24	CLA	C	513	65/65	0.89	0.11	45,55,78,82	0
24	CLA	B	601	65/65	0.89	0.12	37,50,75,80	0
26	BCR	C	521	40/40	0.89	0.10	40,50,61,62	0
26	BCR	h	101	40/40	0.90	0.11	42,54,62,63	0
26	BCR	C	514	40/40	0.90	0.11	44,53,57,63	0
26	BCR	H	101	40/40	0.90	0.10	33,44,53,55	0
26	BCR	c	514	40/40	0.90	0.12	53,58,63,65	0
29	SQD	a	613	54/54	0.90	0.11	37,58,73,77	0
28	STE	m	102	18/20	0.90	0.12	34,41,65,65	0
30	DGD	h	102	62/66	0.91	0.10	34,46,54,56	0
24	CLA	c	513	65/65	0.91	0.11	50,63,80,86	0
24	CLA	C	512	65/65	0.91	0.10	43,47,73,79	0
26	BCR	d	405	40/40	0.91	0.10	40,49,74,76	0
24	CLA	c	512	65/65	0.91	0.11	48,53,76,77	0
29	SQD	D	409	36/54	0.91	0.13	49,69,77,80	0
30	DGD	C	524	62/66	0.91	0.10	32,46,86,95	0
30	DGD	H	102	62/66	0.91	0.10	31,42,51,54	0
29	SQD	A	613	52/54	0.92	0.10	29,50,70,80	0
26	BCR	D	405	40/40	0.92	0.11	34,45,79,83	0
24	CLA	c	503	65/65	0.92	0.09	35,43,47,54	0
30	DGD	c	520	62/66	0.92	0.09	37,47,74,76	0
26	BCR	k	102	40/40	0.92	0.12	44,51,61,68	0
26	BCR	C	515	40/40	0.93	0.10	27,36,45,48	0
24	CLA	b	606	65/65	0.93	0.09	27,35,60,67	0
24	CLA	C	511	65/65	0.93	0.10	35,46,57,61	0
24	CLA	c	511	65/65	0.93	0.11	40,52,63,67	0
31	LMG	D	408	51/55	0.93	0.12	31,49,68,71	0
26	BCR	K	101	40/40	0.93	0.10	41,47,58,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
26	BCR	b	619	40/40	0.93	0.09	32,39,55,56	0
24	CLA	C	503	65/65	0.93	0.08	32,39,44,50	0
26	BCR	c	515	40/40	0.93	0.10	32,43,51,53	0
24	CLA	C	508	65/65	0.93	0.09	31,36,82,92	0
30	DGD	c	521	62/66	0.93	0.09	31,49,67,74	0
26	BCR	B	618	40/40	0.93	0.07	25,33,40,46	0
31	LMG	d	411	44/55	0.93	0.10	38,49,73,81	0
32	BCT	d	401	4/4	0.93	0.08	34,38,44,45	0
26	BCR	B	619	40/40	0.93	0.08	27,38,48,52	0
33	LHG	d	408	49/49	0.93	0.11	34,46,58,60	0
24	CLA	C	510	65/65	0.93	0.08	32,38,50,58	0
24	CLA	c	504	60/65	0.94	0.08	28,42,65,69	0
25	PHO	d	402	64/64	0.94	0.07	30,38,42,48	0
26	BCR	A	610	40/40	0.94	0.07	26,33,38,38	0
27	PL9	d	406	55/55	0.94	0.07	27,32,39,39	0
30	DGD	C	525	62/66	0.94	0.09	31,40,63,77	0
26	BCR	T	101	40/40	0.94	0.07	28,34,44,45	0
26	BCR	b	617	40/40	0.94	0.07	28,36,41,46	0
26	BCR	b	618	40/40	0.94	0.07	25,35,43,47	0
26	BCR	B	617	40/40	0.94	0.07	27,35,40,42	0
24	CLA	c	507	65/65	0.94	0.08	33,40,51,54	0
32	BCT	D	401	4/4	0.94	0.10	28,35,35,38	0
24	CLA	c	508	64/65	0.94	0.09	34,42,77,86	0
33	LHG	D	411	47/49	0.94	0.10	29,40,66,70	0
33	LHG	D	412	49/49	0.94	0.10	27,39,55,58	0
24	CLA	c	509	65/65	0.94	0.10	35,45,55,57	0
33	LHG	a	612	39/49	0.94	0.10	34,42,61,68	0
24	CLA	C	502	65/65	0.94	0.08	29,35,49,52	0
24	CLA	B	606	65/65	0.94	0.08	22,31,55,64	0
24	CLA	b	608	65/65	0.95	0.07	32,38,52,55	0
24	CLA	b	609	65/65	0.95	0.08	35,41,55,64	0
24	CLA	b	610	65/65	0.95	0.08	27,34,41,45	0
25	PHO	A	607	64/64	0.95	0.06	21,27,31,34	0
25	PHO	A	608	64/64	0.95	0.07	24,31,35,40	0
25	PHO	a	607	64/64	0.95	0.06	23,28,33,36	0
24	CLA	b	614	65/65	0.95	0.08	26,33,65,69	0
24	CLA	b	615	65/65	0.95	0.08	26,36,53,60	0
24	CLA	b	616	60/65	0.95	0.09	31,37,80,85	0
26	BCR	t	101	40/40	0.95	0.07	27,33,44,46	0
24	CLA	c	502	65/65	0.95	0.07	33,39,53,59	0
27	PL9	D	406	55/55	0.95	0.07	20,29,37,39	0
24	CLA	a	605	65/65	0.95	0.07	21,27,37,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
24	CLA	a	606	65/65	0.95	0.09	29,36,84,89	0
24	CLA	c	505	65/65	0.95	0.08	29,37,53,61	0
30	DGD	C	523	62/66	0.95	0.08	25,36,62,66	0
24	CLA	c	506	65/65	0.95	0.09	34,41,73,75	0
24	CLA	a	608	65/65	0.95	0.09	21,27,64,72	0
24	CLA	C	506	65/65	0.95	0.09	31,39,69,73	0
30	DGD	c	519	62/66	0.95	0.09	25,37,60,68	0
24	CLA	C	504	59/65	0.95	0.08	32,38,73,77	0
24	CLA	c	510	65/65	0.95	0.08	35,44,55,61	0
26	BCR	a	609	40/40	0.95	0.06	23,30,39,41	0
33	LHG	l	101	49/49	0.95	0.08	31,41,47,56	0
24	CLA	A	606	65/65	0.96	0.09	21,31,77,85	0
24	CLA	B	607	65/65	0.96	0.07	20,26,47,53	0
24	CLA	B	608	65/65	0.96	0.06	24,30,48,53	0
24	CLA	B	609	65/65	0.96	0.07	25,35,48,56	0
24	CLA	D	402	65/65	0.96	0.06	21,26,40,49	0
24	CLA	D	403	65/65	0.96	0.06	21,26,44,52	0
24	CLA	D	404	65/65	0.96	0.08	27,33,102,109	0
24	CLA	B	610	65/65	0.96	0.07	22,28,35,39	0
24	CLA	d	403	65/65	0.96	0.07	23,28,49,56	0
24	CLA	d	404	65/65	0.96	0.08	30,38,72,75	0
24	CLA	B	611	65/65	0.96	0.06	20,26,42,48	0
24	CLA	B	612	65/65	0.96	0.07	21,27,39,45	0
24	CLA	a	611	65/65	0.96	0.06	20,28,40,46	0
24	CLA	B	614	65/65	0.96	0.07	24,30,59,65	0
24	CLA	b	602	65/65	0.96	0.08	29,36,53,55	0
24	CLA	b	603	65/65	0.96	0.08	24,31,56,65	0
24	CLA	b	604	65/65	0.96	0.08	24,31,58,71	0
24	CLA	b	605	65/65	0.96	0.07	22,31,43,44	0
24	CLA	B	615	65/65	0.96	0.07	24,30,47,51	0
24	CLA	b	607	65/65	0.96	0.08	22,30,50,58	0
24	CLA	B	616	60/65	0.96	0.08	24,32,71,75	0
24	CLA	C	501	65/65	0.96	0.07	26,31,45,48	0
24	CLA	A	605	65/65	0.96	0.06	19,25,39,43	0
24	CLA	b	611	65/65	0.96	0.06	25,31,44,49	0
24	CLA	b	612	65/65	0.96	0.07	23,31,39,44	0
24	CLA	b	613	65/65	0.96	0.08	21,28,61,66	0
24	CLA	B	602	65/65	0.96	0.07	25,31,50,55	0
24	CLA	B	603	65/65	0.96	0.07	22,27,53,56	0
24	CLA	C	505	65/65	0.96	0.08	25,33,56,62	0
24	CLA	c	501	65/65	0.96	0.07	29,36,44,49	0
33	LHG	L	101	49/49	0.96	0.07	30,37,46,59	0

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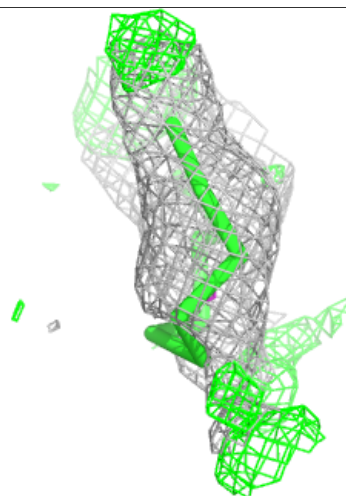
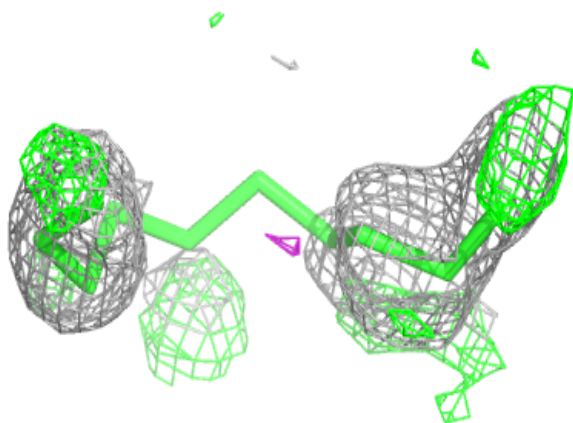
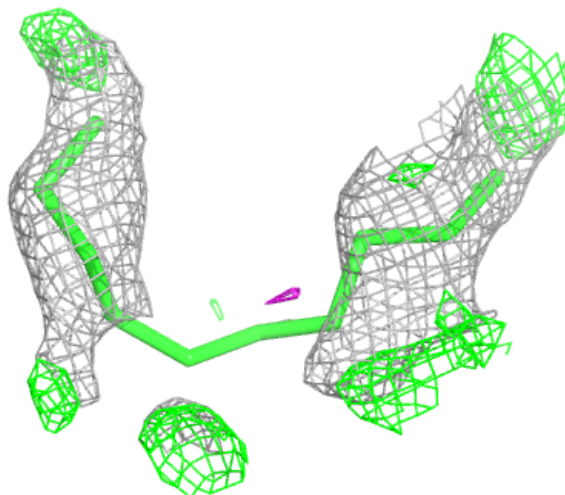
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
24	CLA	B	604	65/65	0.96	0.08	20,27,58,61	0
24	CLA	C	507	65/65	0.96	0.07	26,35,54,58	0
33	LHG	d	409	49/49	0.96	0.08	28,37,47,54	0
24	CLA	B	605	65/65	0.96	0.06	21,27,39,40	0
24	CLA	C	509	65/65	0.96	0.08	30,38,55,58	0
34	HEM	F	101	43/43	0.96	0.09	40,47,54,64	0
24	CLA	A	609	54/65	0.97	0.06	20,26,51,56	0
33	LHG	D	410	49/49	0.97	0.07	25,36,45,48	0
24	CLA	B	613	65/65	0.97	0.06	21,26,54,59	0
34	HEM	e	102	43/43	0.97	0.09	54,59,71,78	0
23	CL	A	603	1/1	0.98	0.04	27,27,27,27	0
35	HEC	V	201	43/43	0.98	0.06	25,29,35,43	0
35	HEC	v	201	43/43	0.98	0.06	31,35,42,46	0
21	OEX	a	601	10/10	0.99	0.02	27,28,32,34	0
22	FE2	A	602	1/1	0.99	0.04	32,32,32,32	0
22	FE2	a	602	1/1	0.99	0.02	37,37,37,37	0
21	OEX	A	601	10/10	0.99	0.03	24,28,31,32	0
23	CL	A	604	1/1	0.99	0.05	27,27,27,27	0
23	CL	a	603	1/1	0.99	0.05	29,29,29,29	0
23	CL	a	604	1/1	0.99	0.08	29,29,29,29	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.

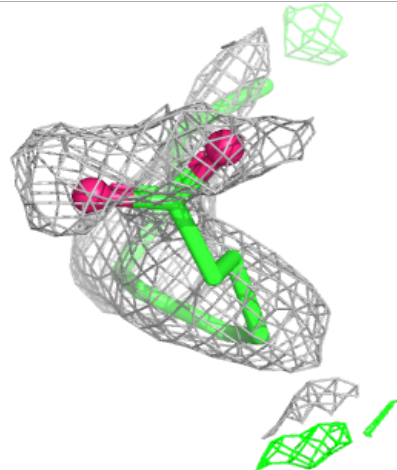
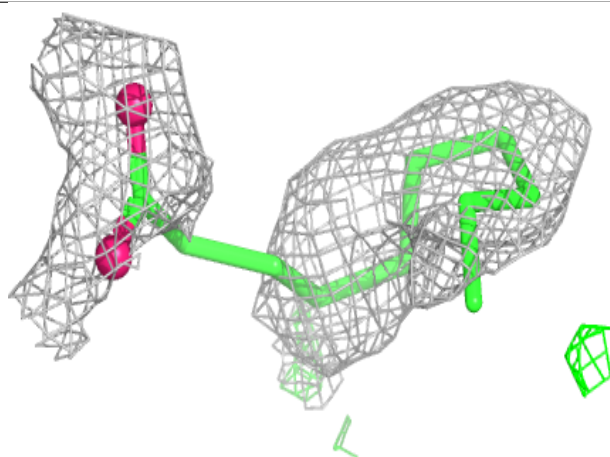
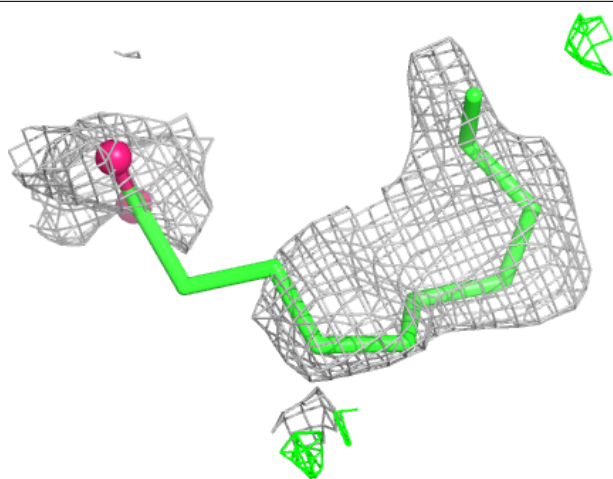
Electron density around STE C 520:

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



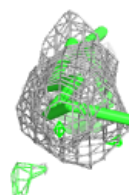
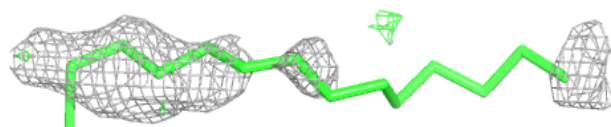
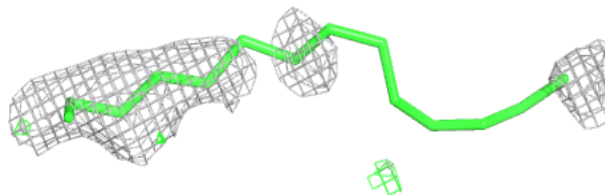
Electron density around STE i 101:

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

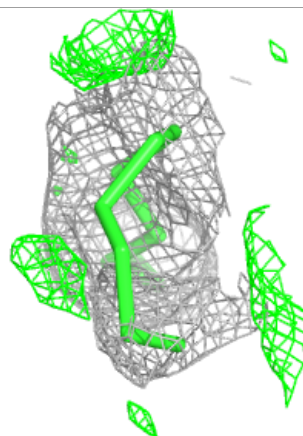
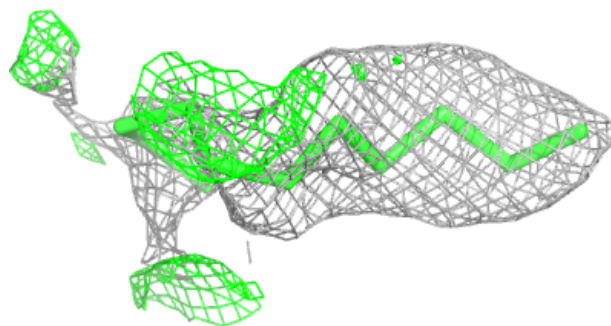
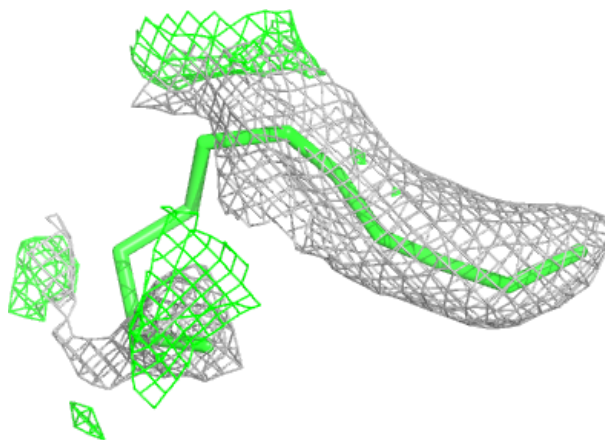


Electron density around STE C 529:

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

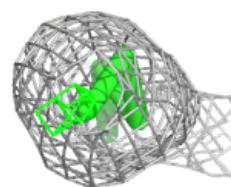
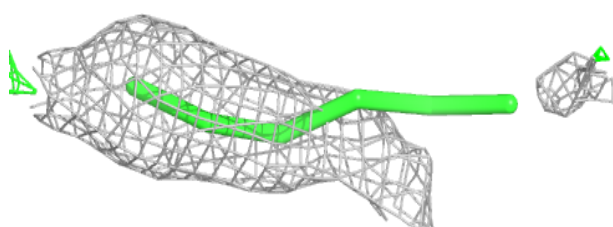
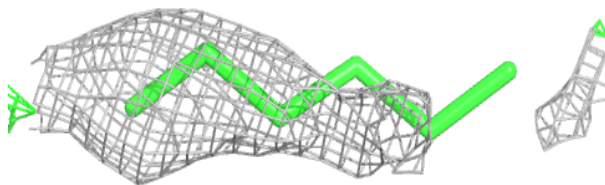
**Electron density around STE A 618:**

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

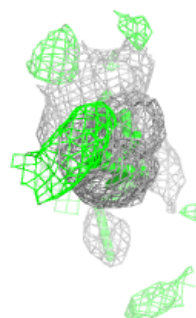
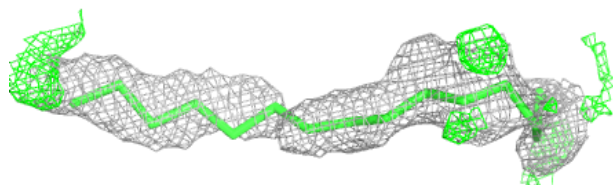
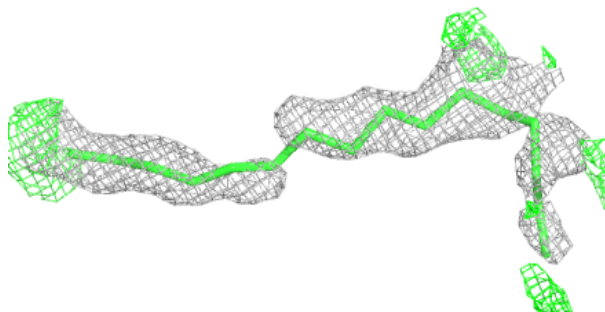


Electron density around STE i 102:

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

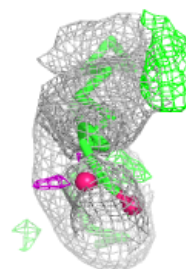
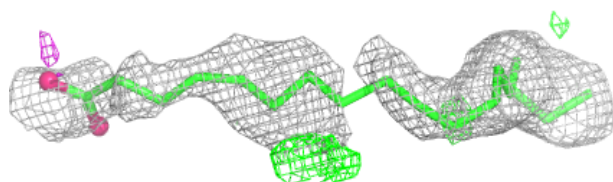
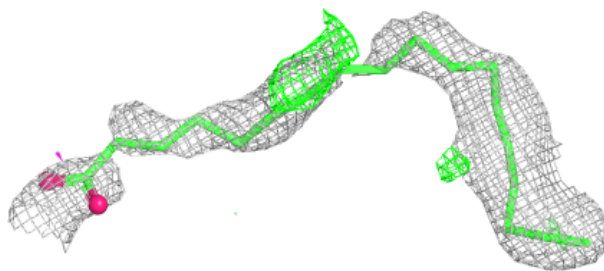
**Electron density around STE j 102:**

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

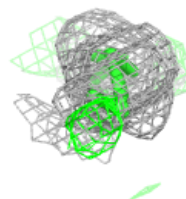
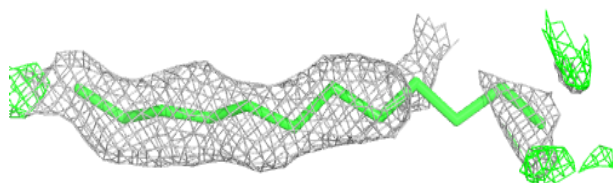
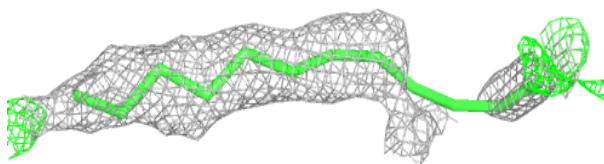


Electron density around STE E 104:

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

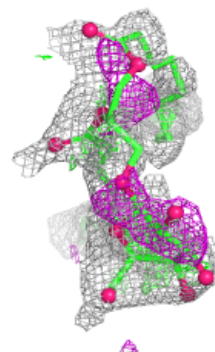
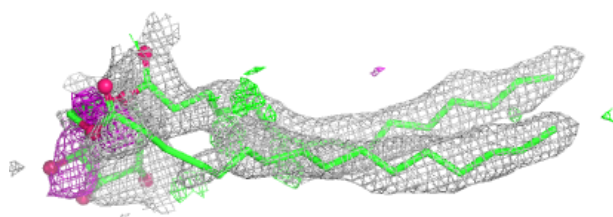
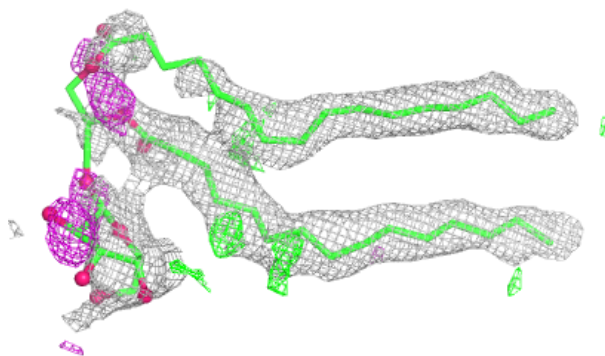
**Electron density around STE E 103:**

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

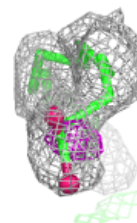
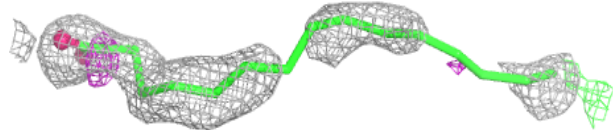
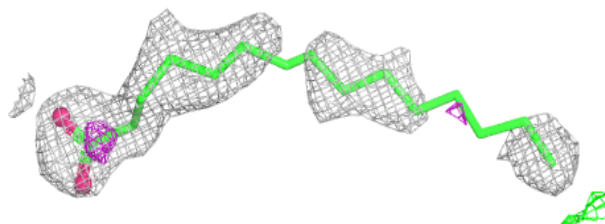


Electron density around LMG D 407:

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

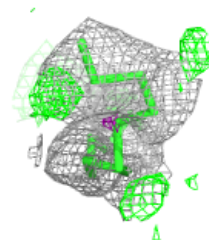
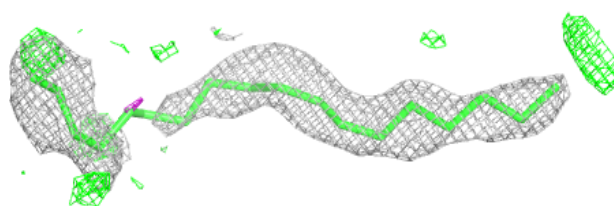
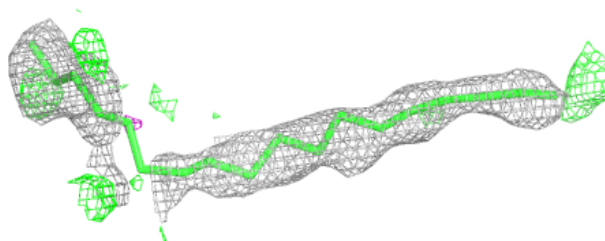
**Electron density around STE I 101:**

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

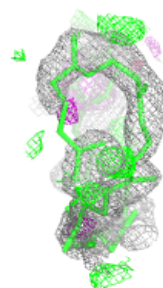
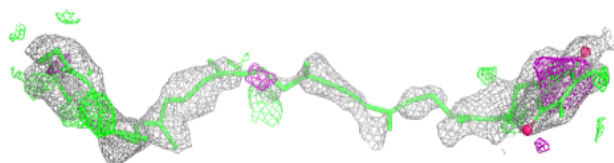
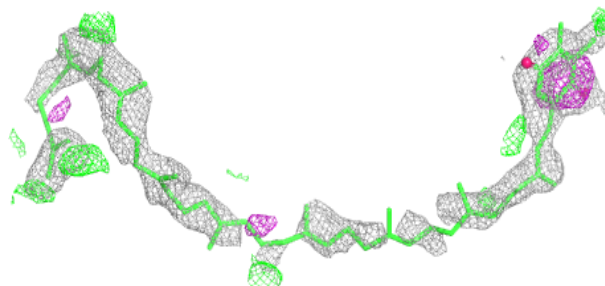


Electron density around STE c 517:

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

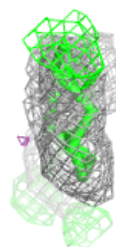
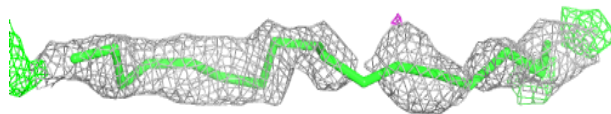
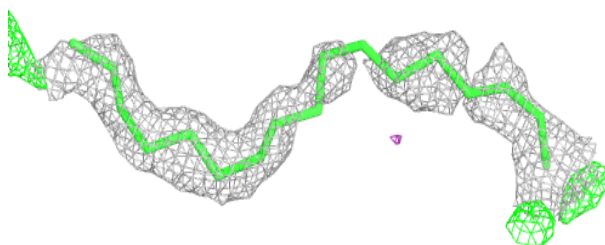
**Electron density around PL9 a 610:**

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

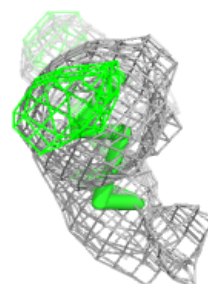
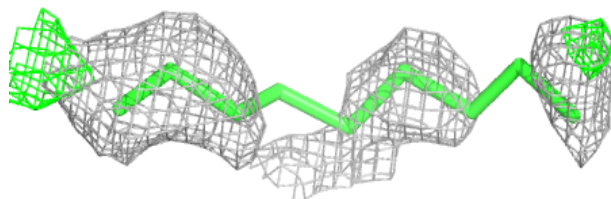
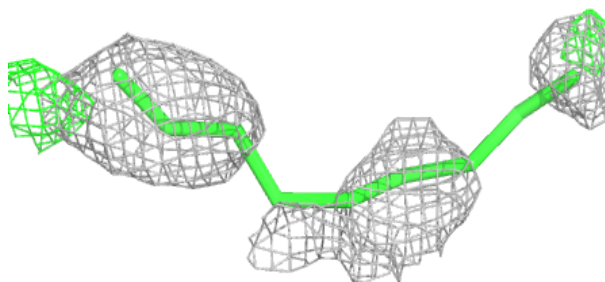


Electron density around STE A 617:

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

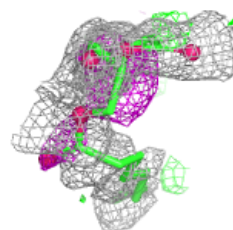
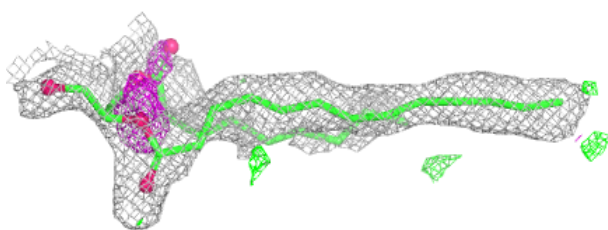
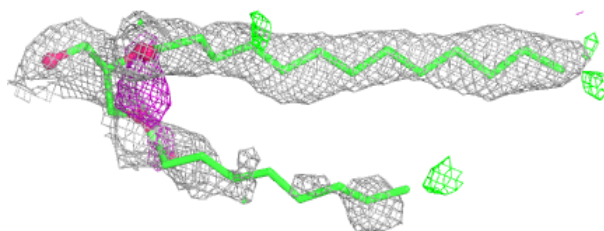
**Electron density around STE e 101:**

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

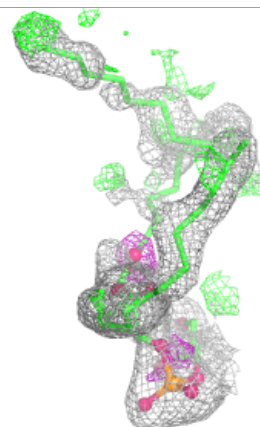
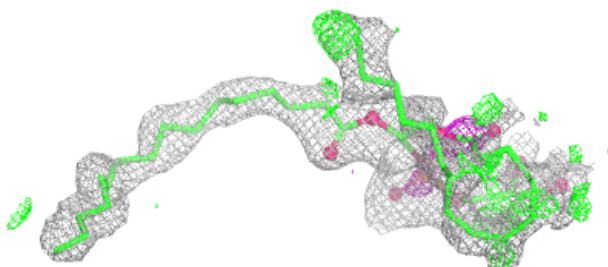
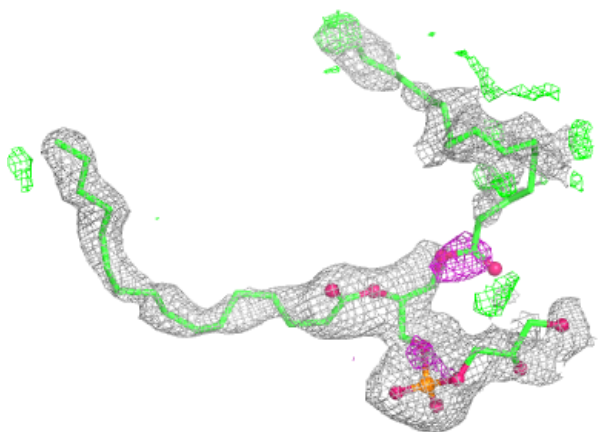


Electron density around LMG c 518:

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

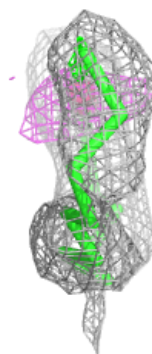
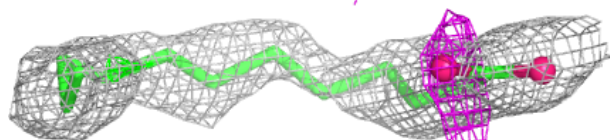
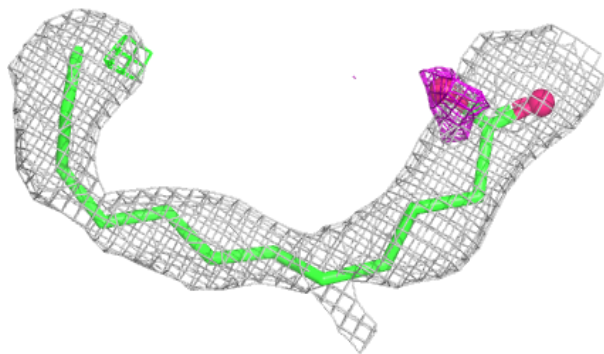
**Electron density around LHG E 101:**

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

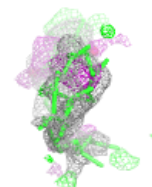
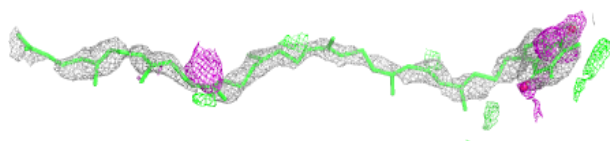
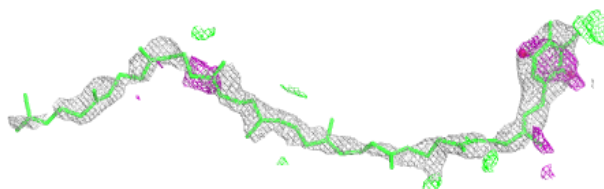


Electron density around STE C 516:

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

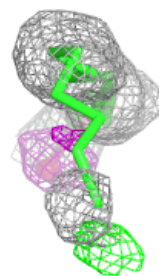
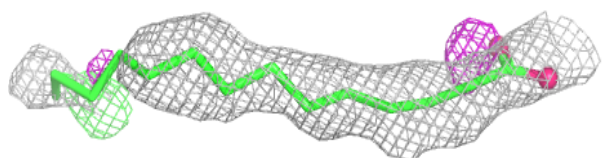
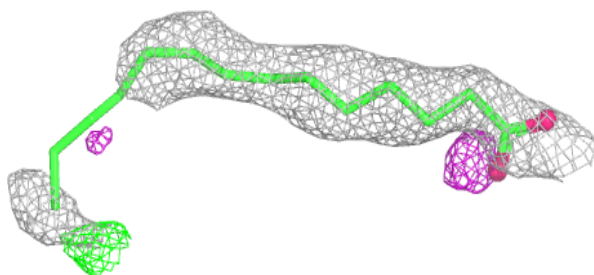
**Electron density around PL9 A 611:**

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

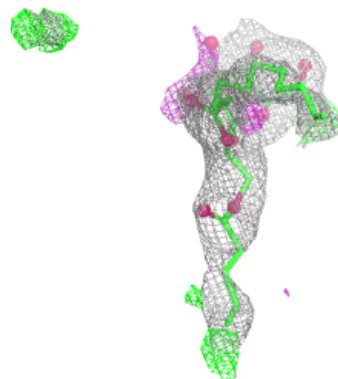
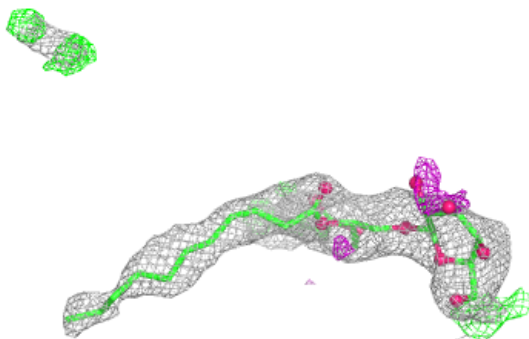
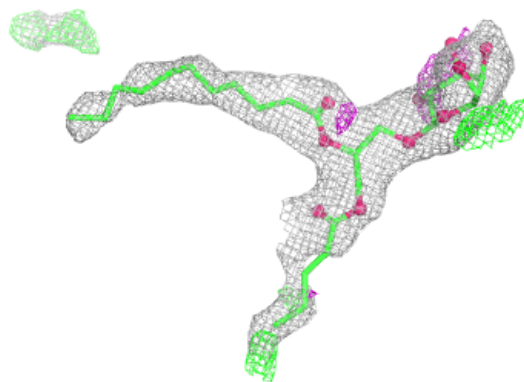


Electron density around STE b 625:

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

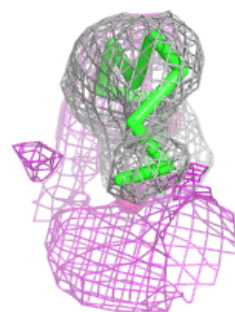
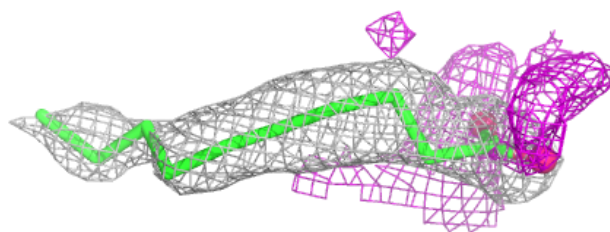
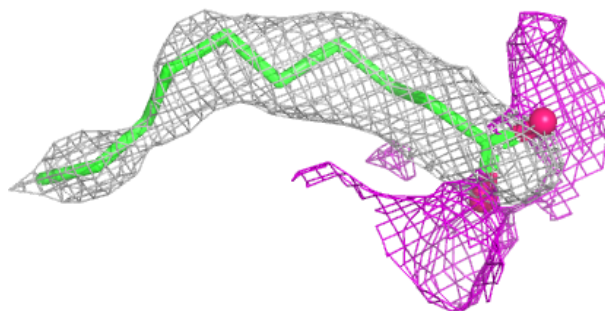
**Electron density around LMG C 517:**

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

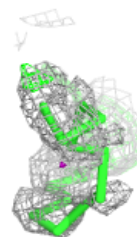
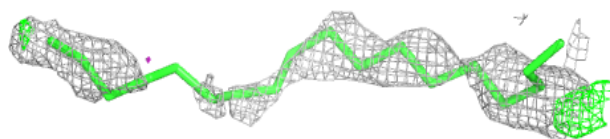
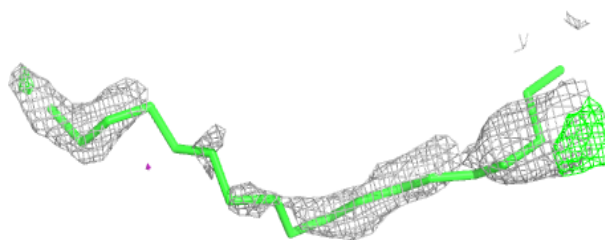


Electron density around STE B 626:

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

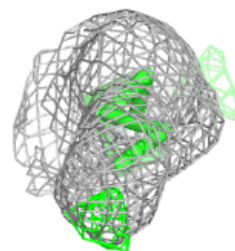
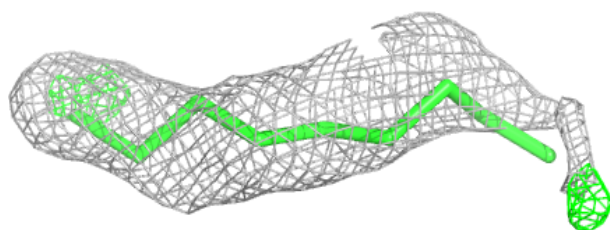
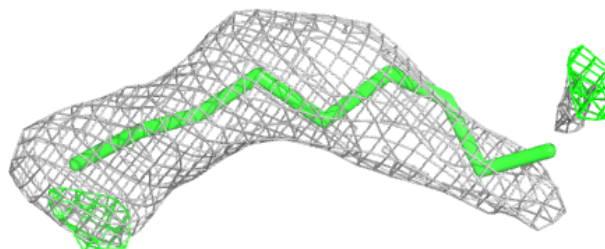
**Electron density around STE H 103:**

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

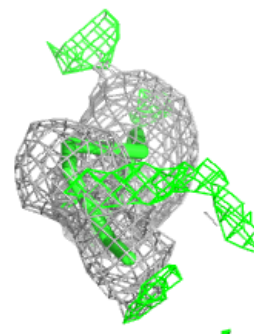
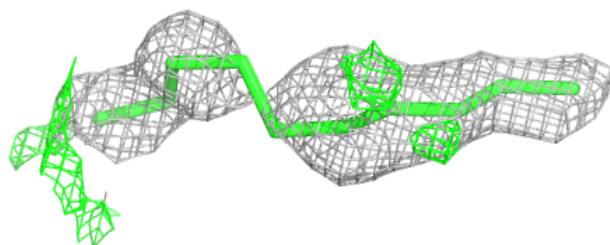
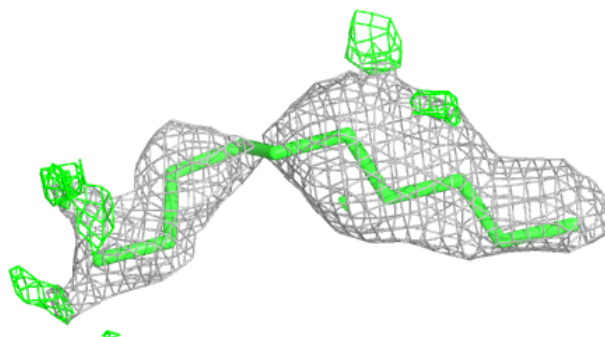


Electron density around STE H 104:

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

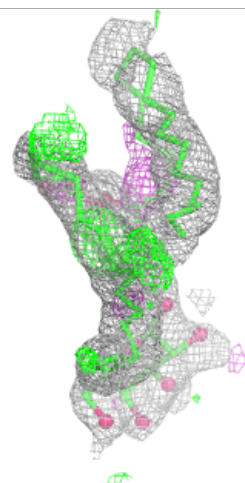
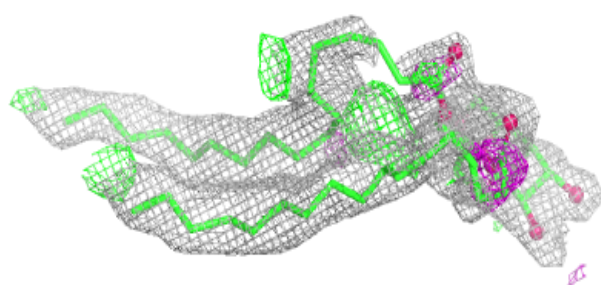
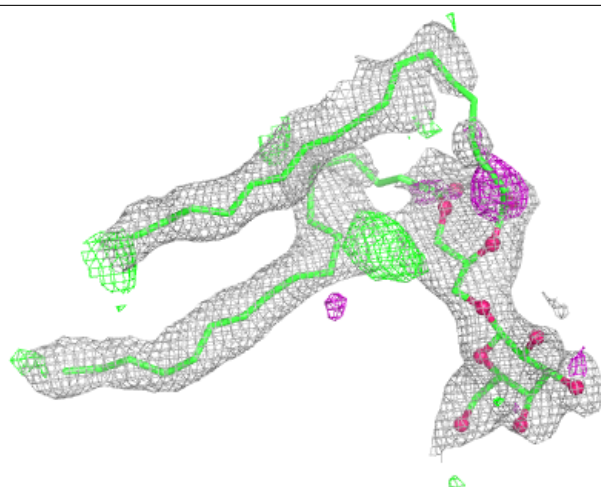
**Electron density around STE d 413:**

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



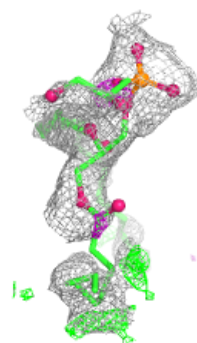
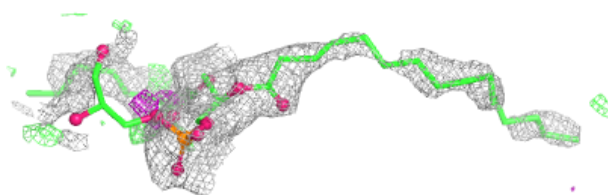
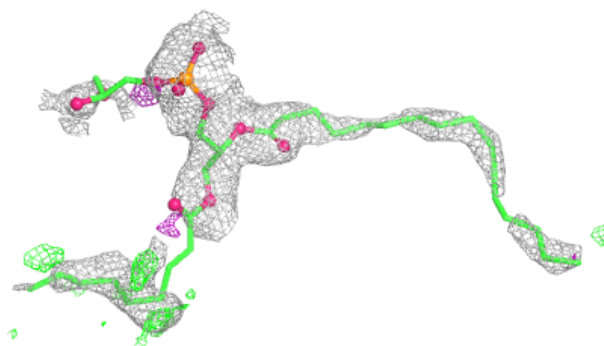
Electron density around LMG a 615:

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

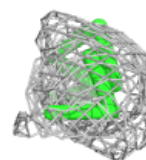
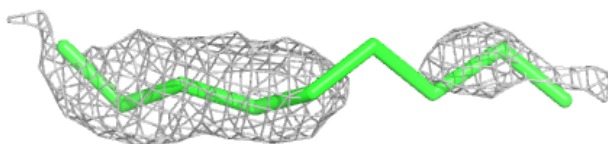
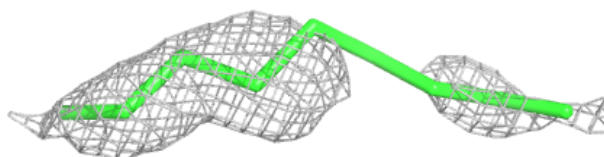


Electron density around LHG e 103:

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

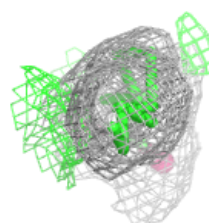
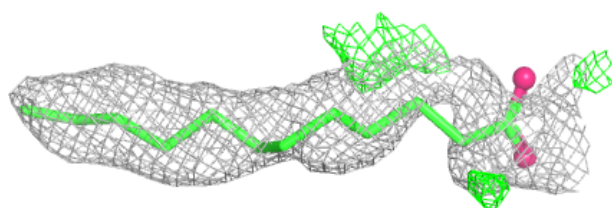
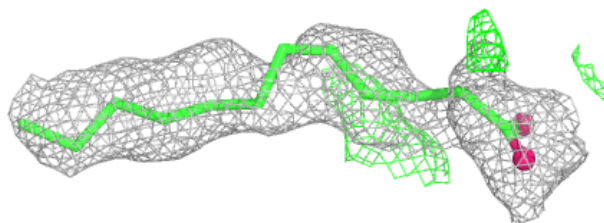
**Electron density around STE A 612:**

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

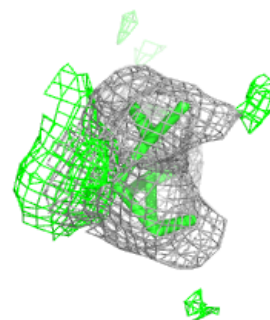
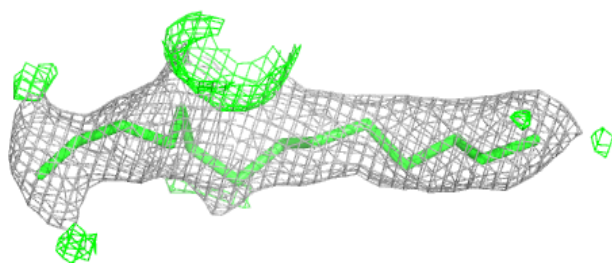
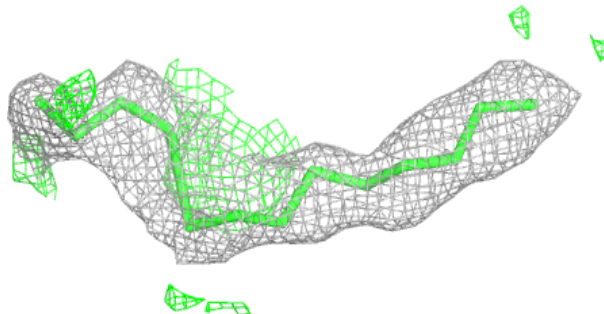


Electron density around STE d 414:

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

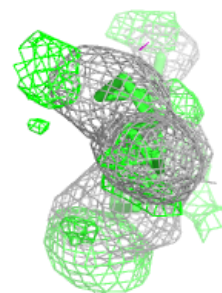
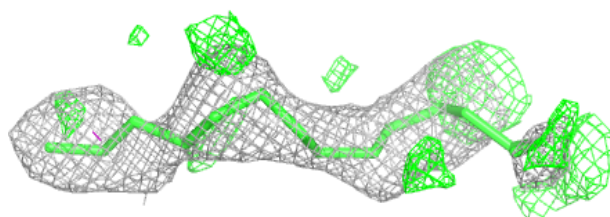
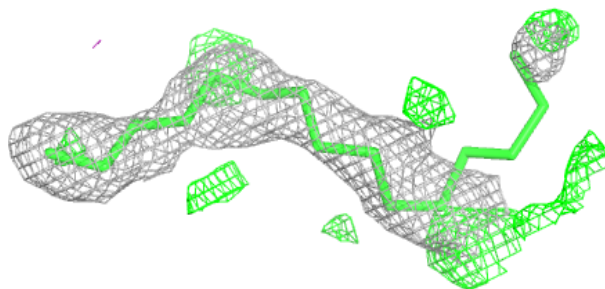
**Electron density around STE K 102:**

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

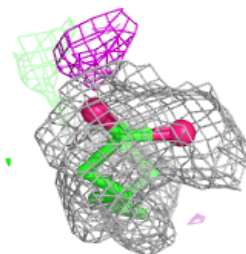
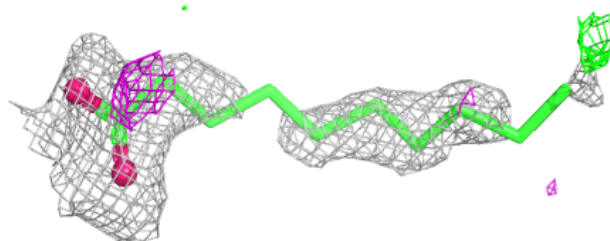
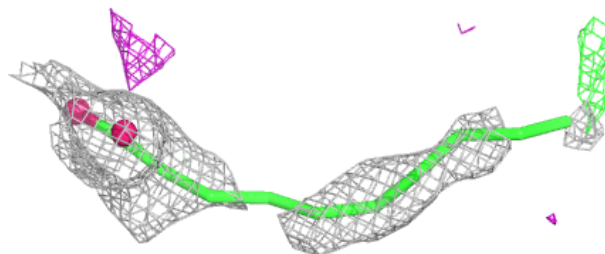


Electron density around STE B 627:

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

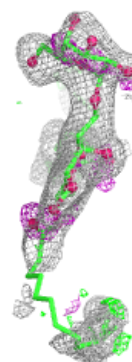
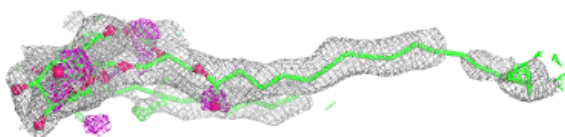
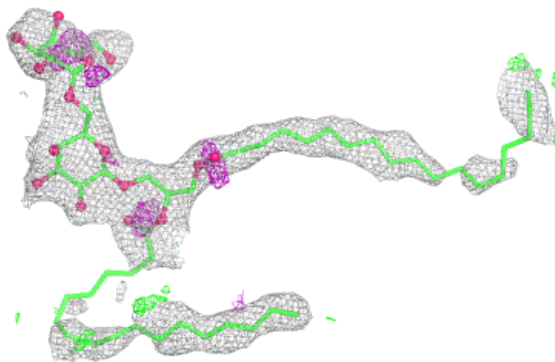
**Electron density around STE E 102:**

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

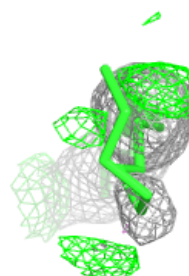
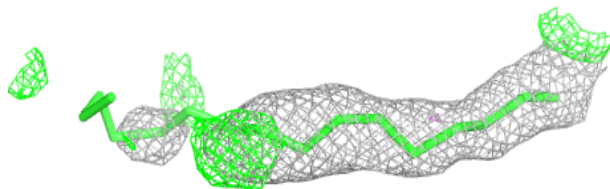
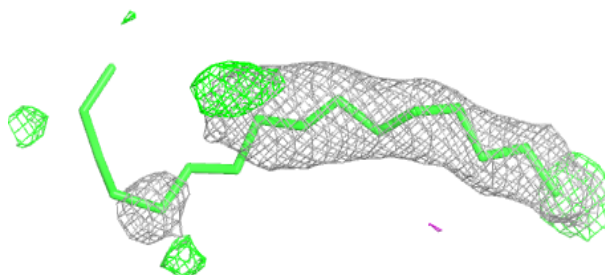


Electron density around DGD A 615:

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

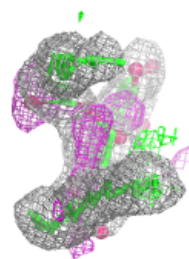
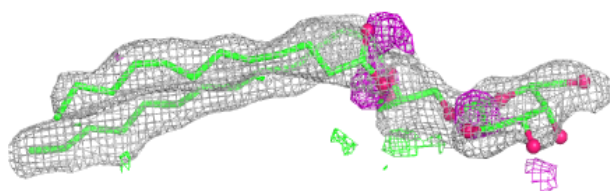
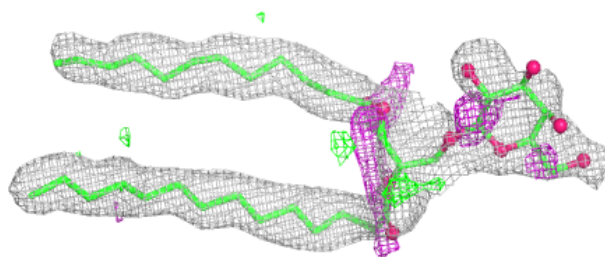
**Electron density around STE b 621:**

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

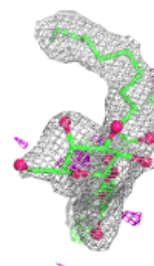
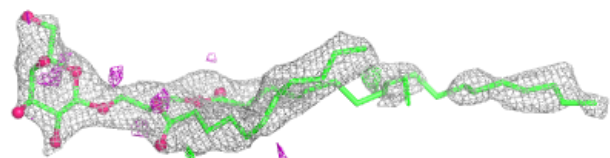
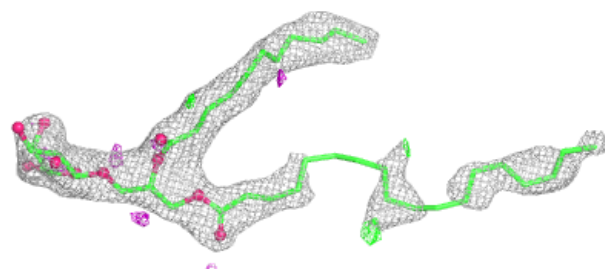


Electron density around LMG B 620:

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

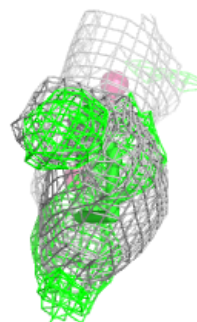
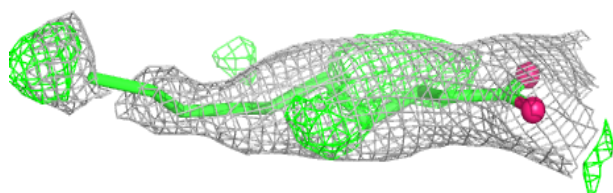
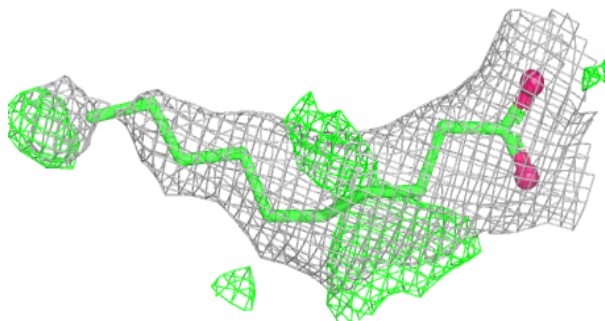
**Electron density around LMG c 523:**

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

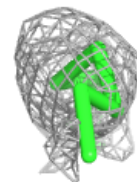
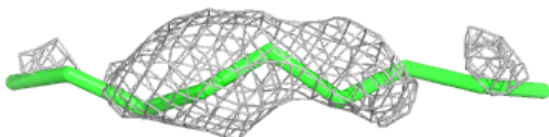
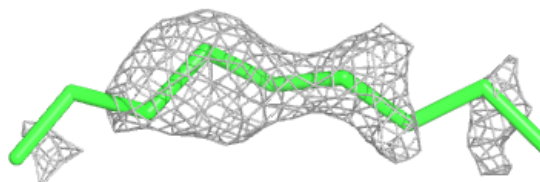


Electron density around STE C 527:

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

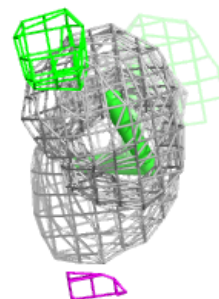
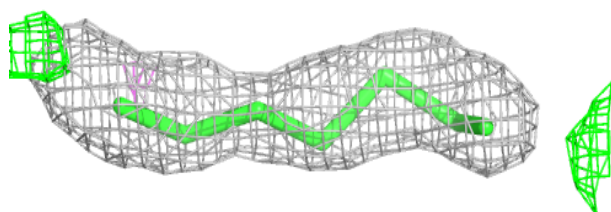
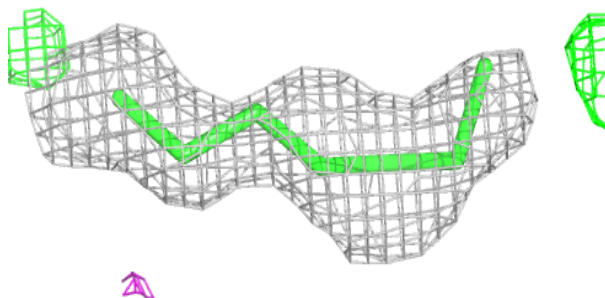
**Electron density around STE e 105:**

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

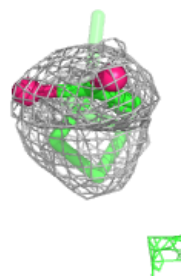
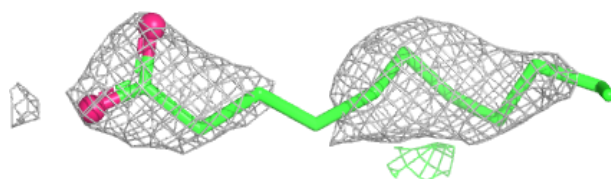
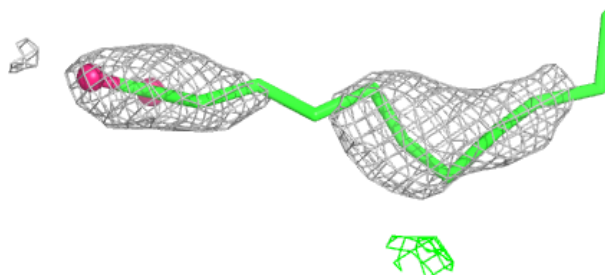


Electron density around STE C 519:

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

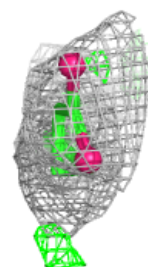
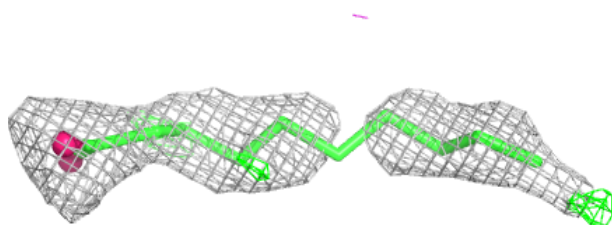
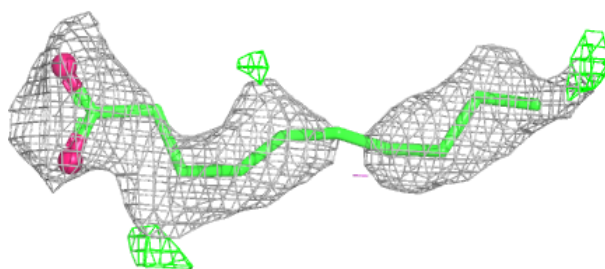
**Electron density around STE e 106:**

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

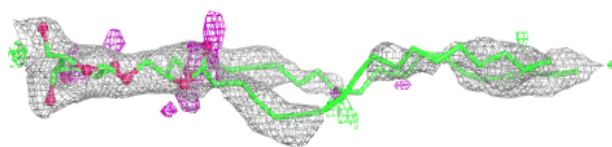
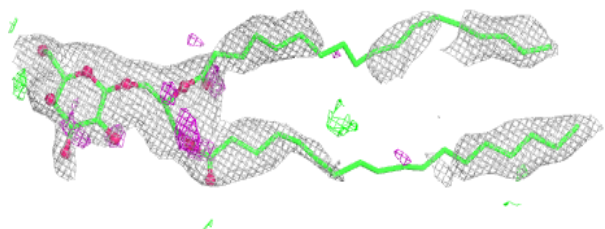


Electron density around STE a 617:

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

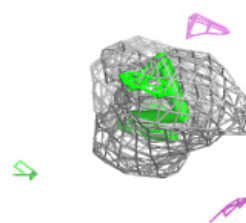
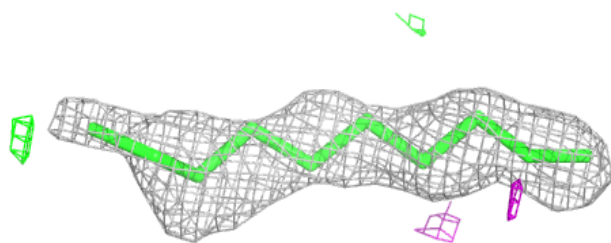
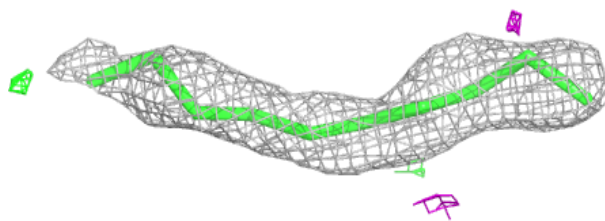
**Electron density around LMG b 624:**

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

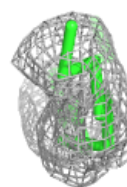
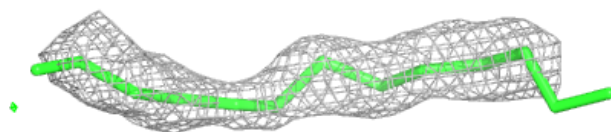
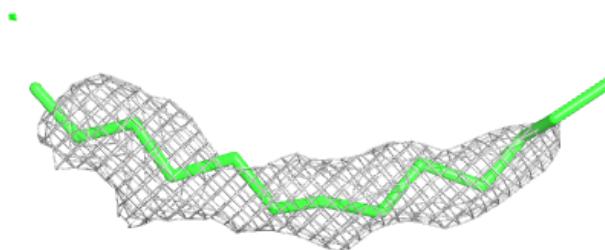


Electron density around STE t 102:

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

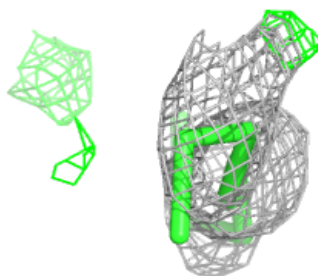
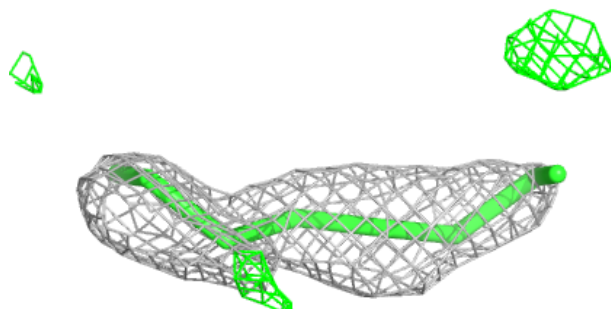
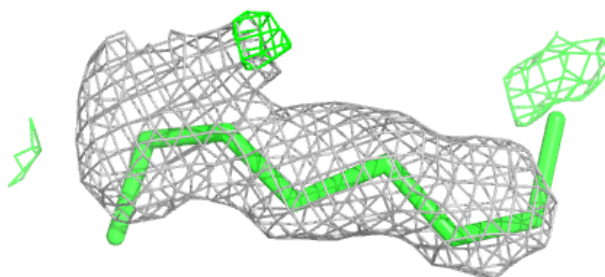
**Electron density around STE c 516:**

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

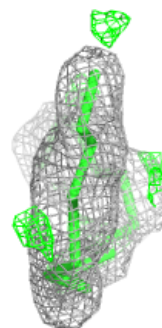
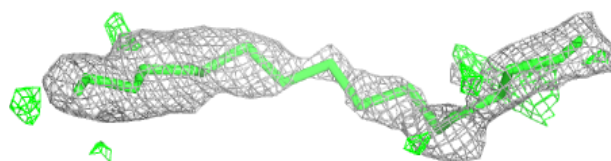
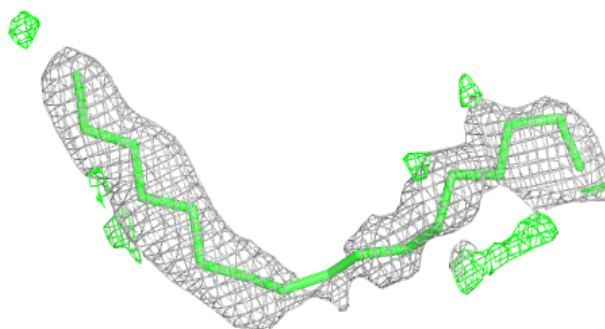


Electron density around STE e 104:

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

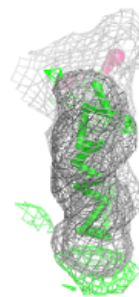
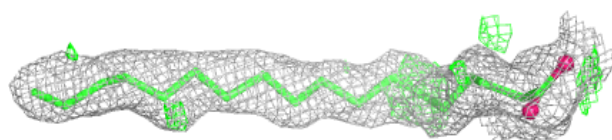
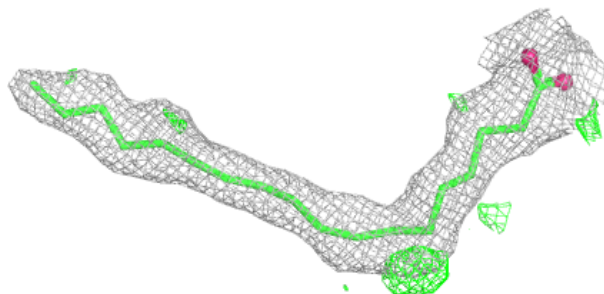
**Electron density around STE Z 101:**

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

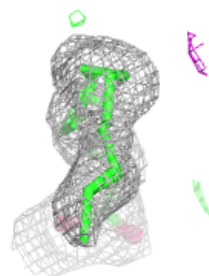
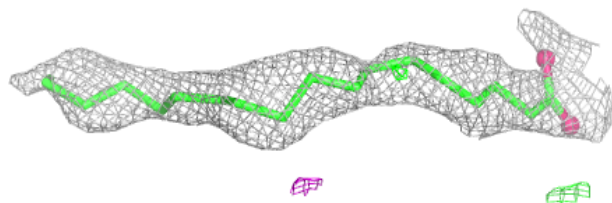
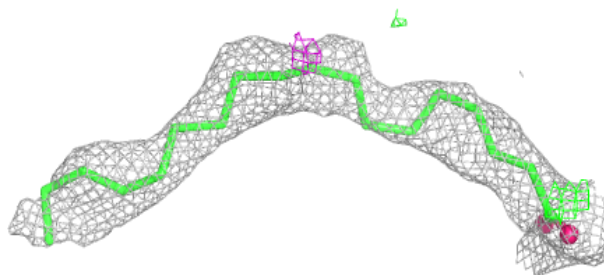


Electron density around STE d 407:

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

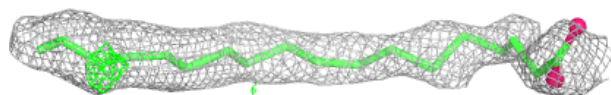
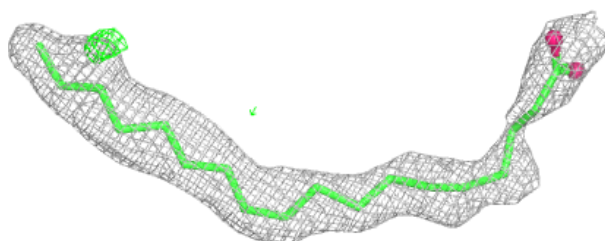
**Electron density around STE d 410:**

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

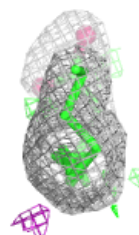
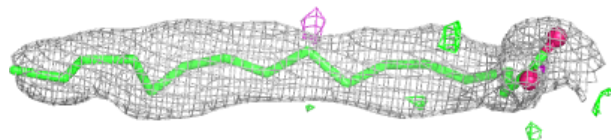
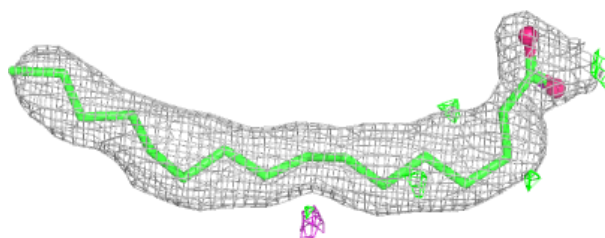


Electron density around STE d 412:

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

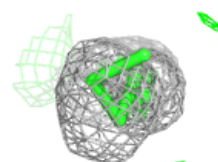
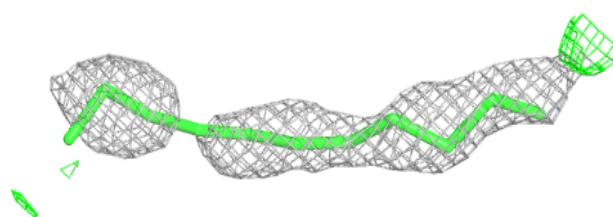
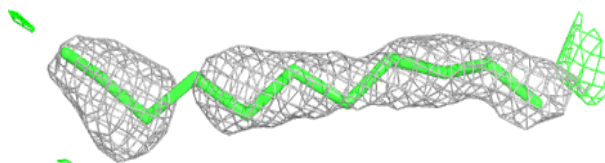
**Electron density around STE B 625:**

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

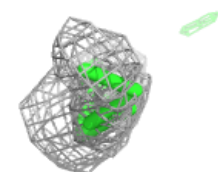
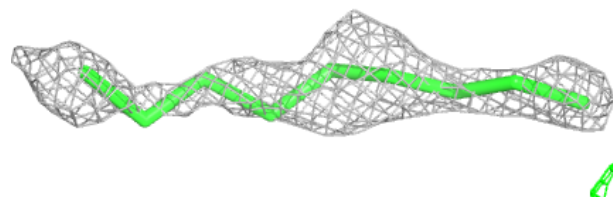
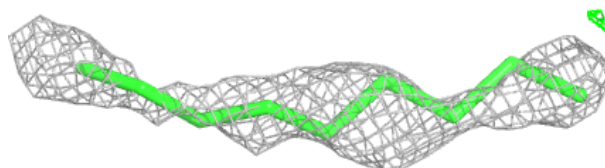


Electron density around STE b 627:

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

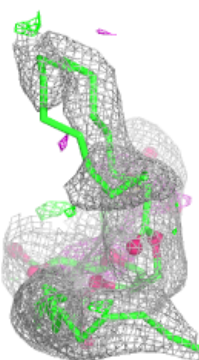
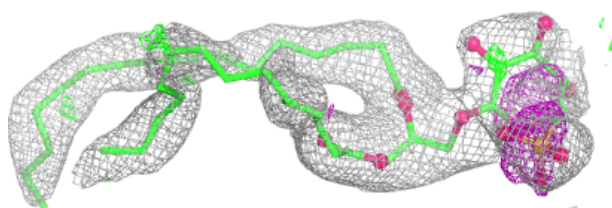
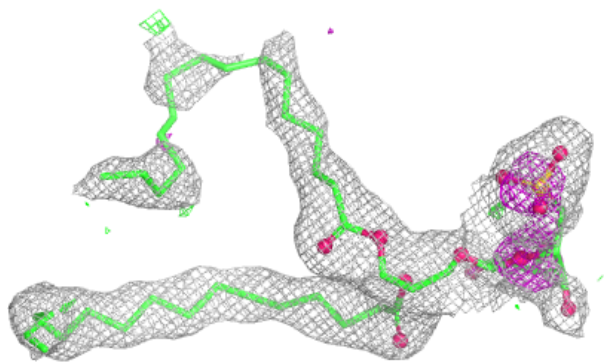
**Electron density around STE z 101:**

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

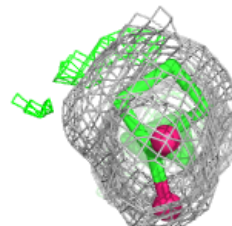
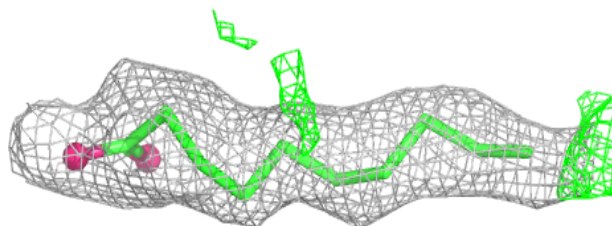
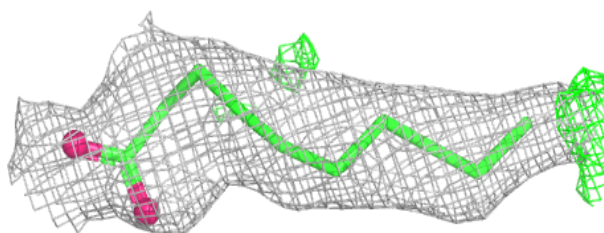


Electron density around SQD a 614:

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

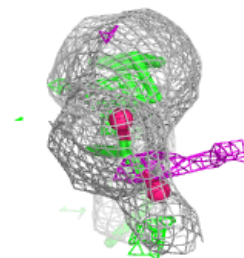
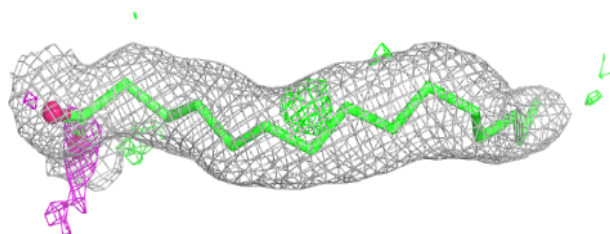
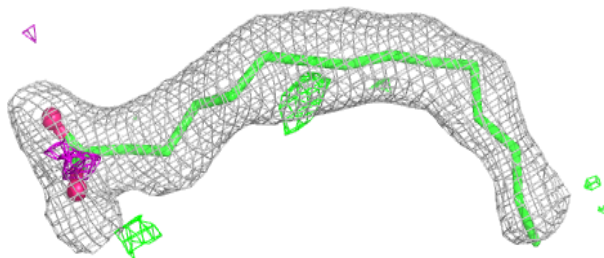
**Electron density around STE J 101:**

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

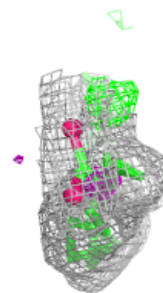
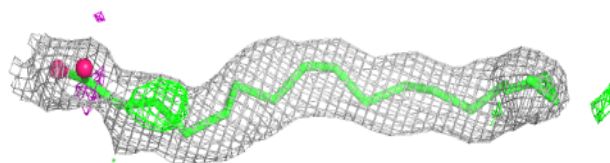
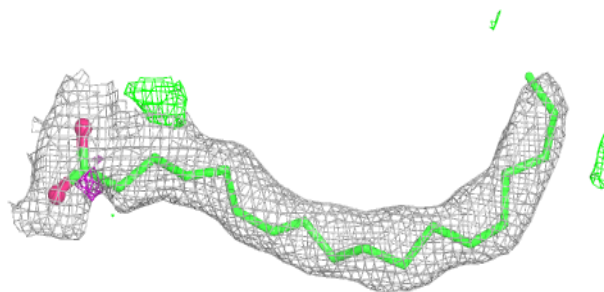


Electron density around STE B 622:

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

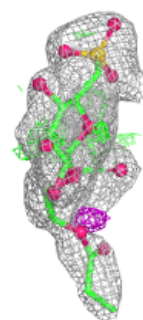
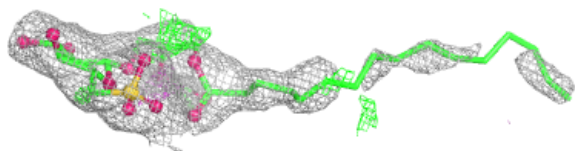
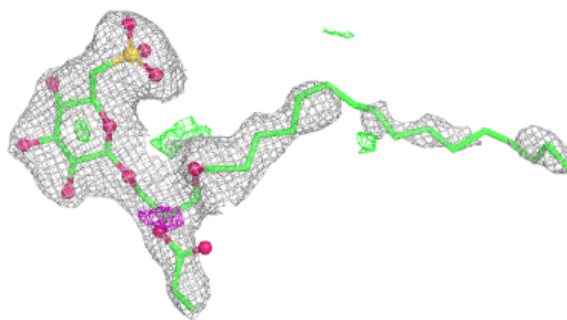
**Electron density around STE b 623:**

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

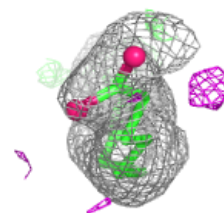
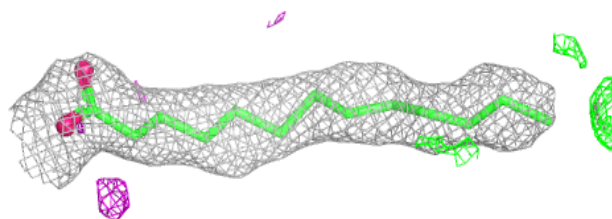
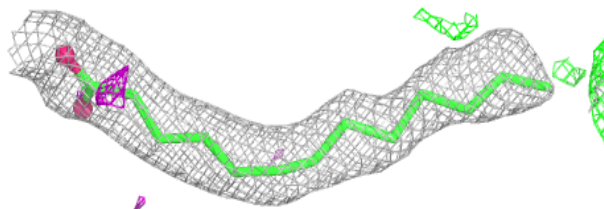


Electron density around SQD f 101:

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

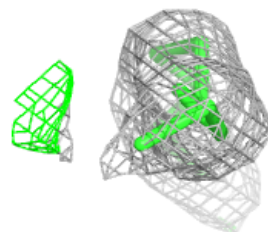
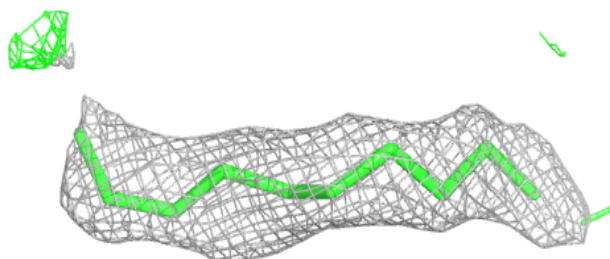
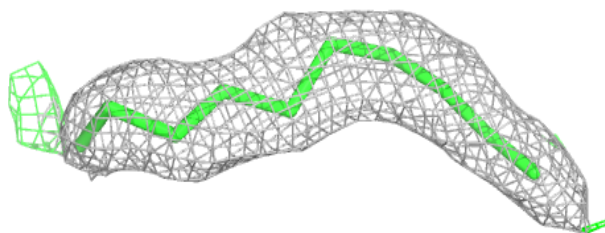
**Electron density around STE I 102:**

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

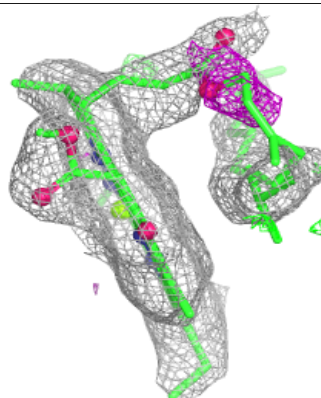
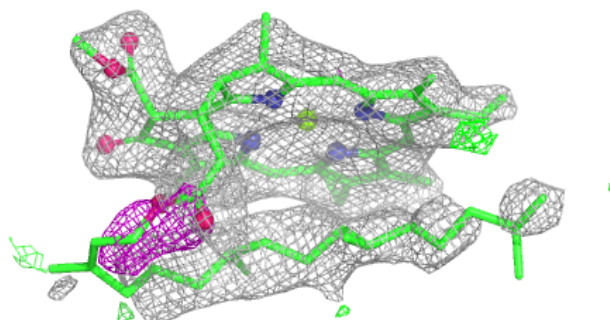
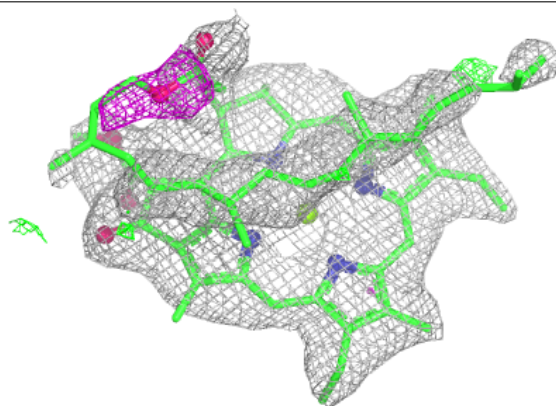


Electron density around STE b 626:

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

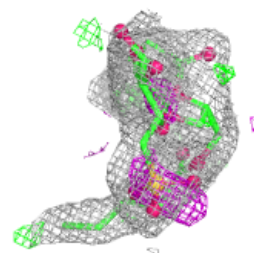
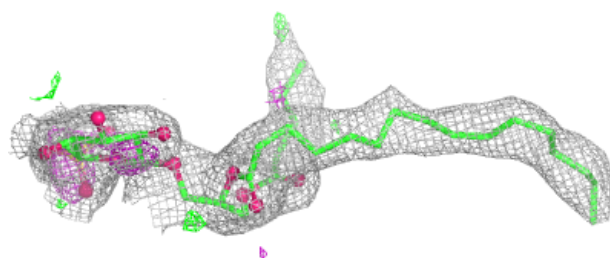
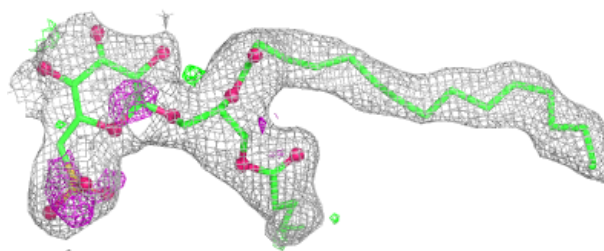
**Electron density around CLA b 601:**

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

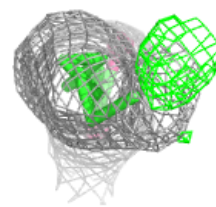
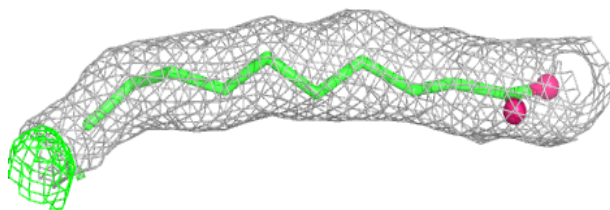
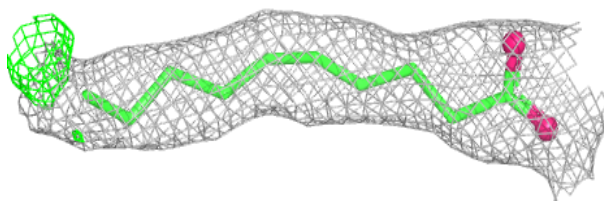


Electron density around SQD A 614:

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

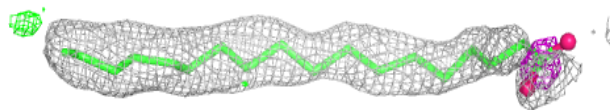
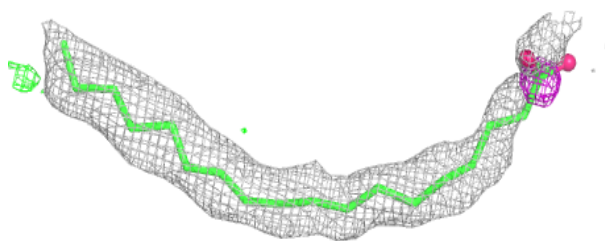
**Electron density around STE j 101:**

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

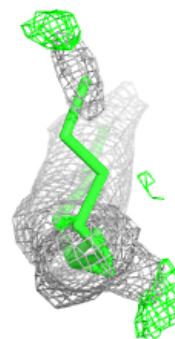
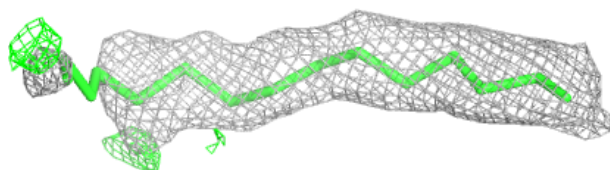
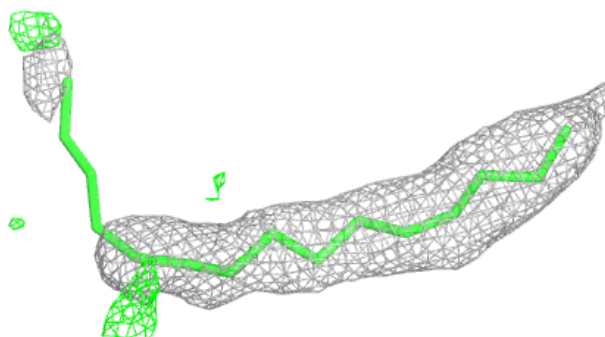


Electron density around STE D 413:

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

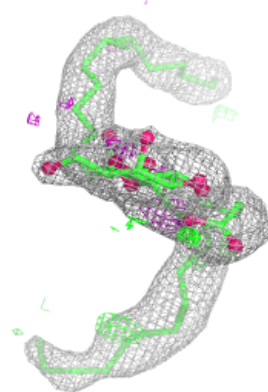
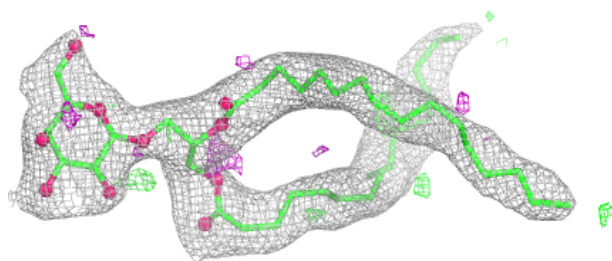
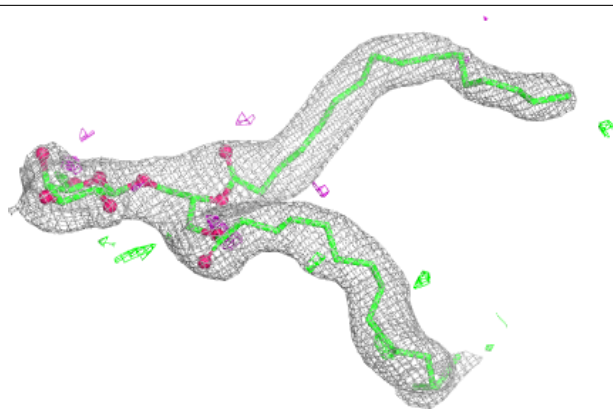
**Electron density around STE M 103:**

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

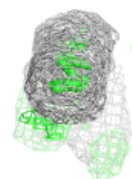
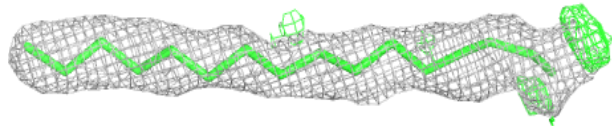
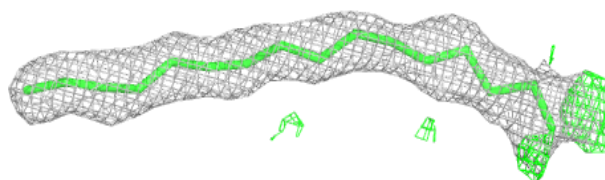


Electron density around LMG B 621:

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

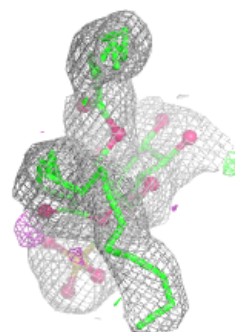
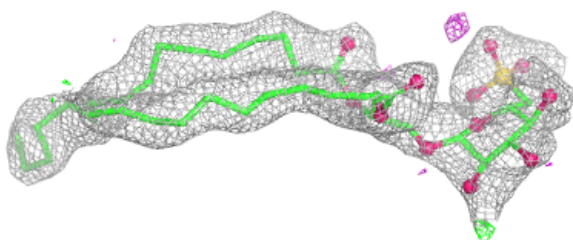
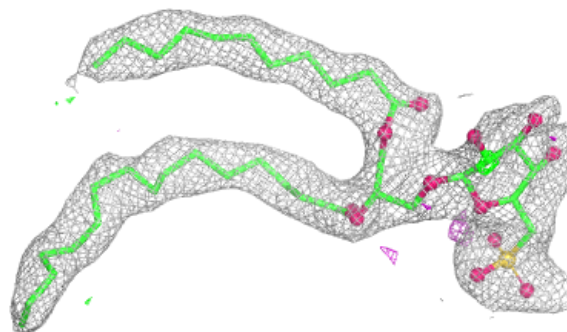
**Electron density around STE C 528:**

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

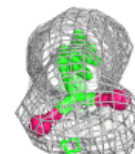
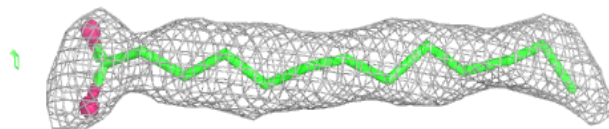
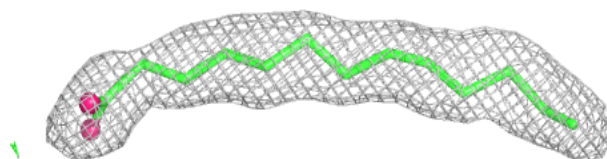


Electron density around SQD b 620:

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

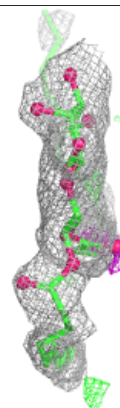
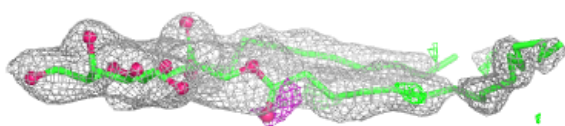
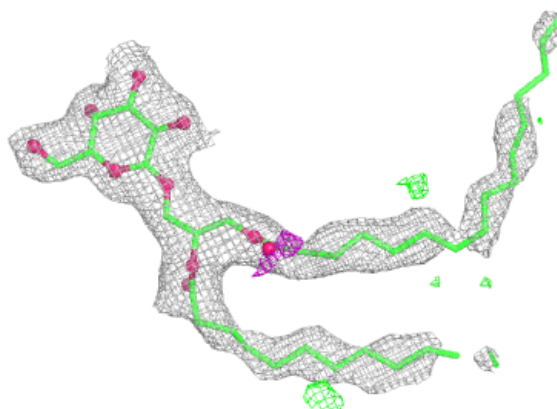
**Electron density around STE M 101:**

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

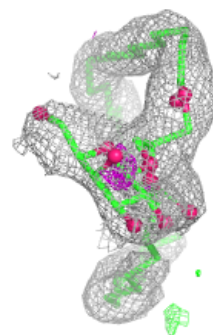
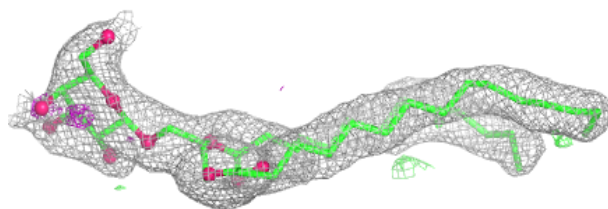
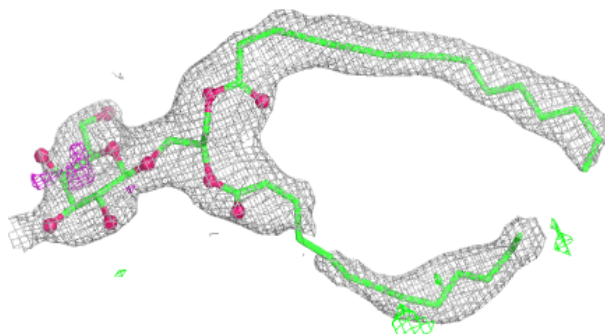


Electron density around LMG c 522:

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

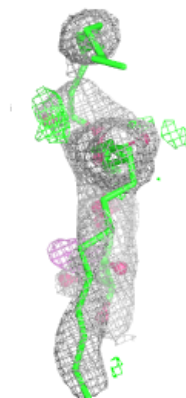
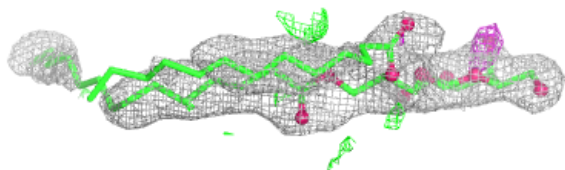
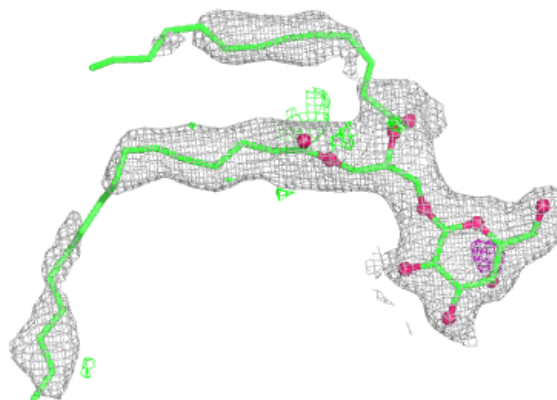
**Electron density around LMG C 522:**

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

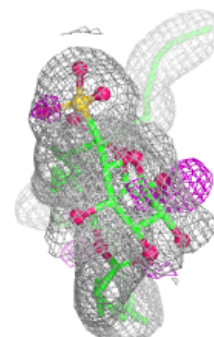
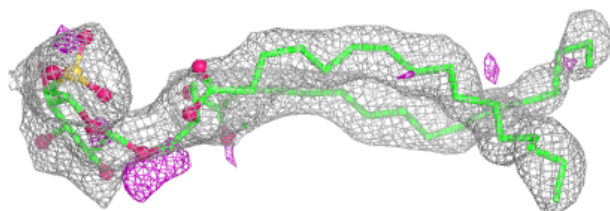
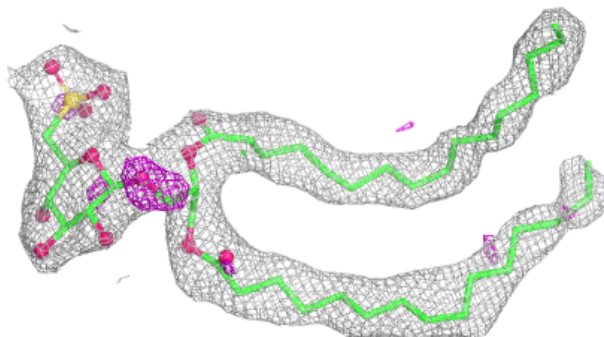


Electron density around LMG C 526:

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

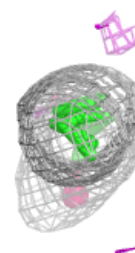
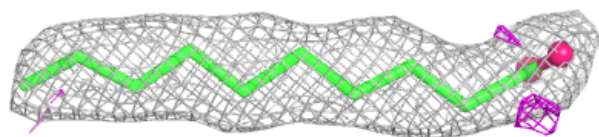
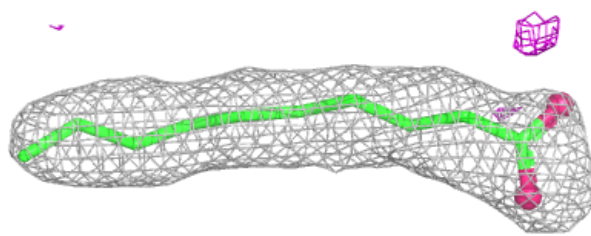
**Electron density around SQD B 623:**

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

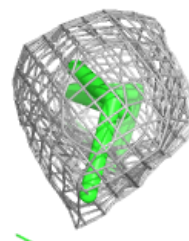
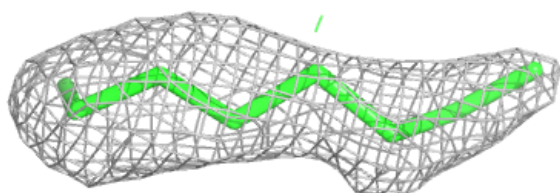
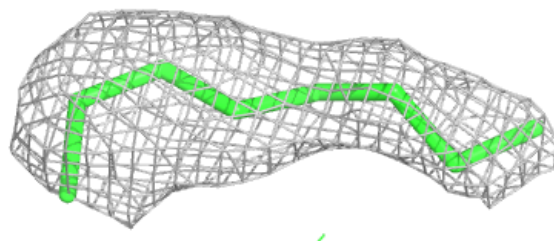


Electron density around STE m 101:

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

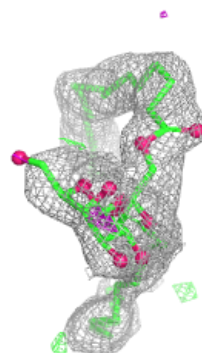
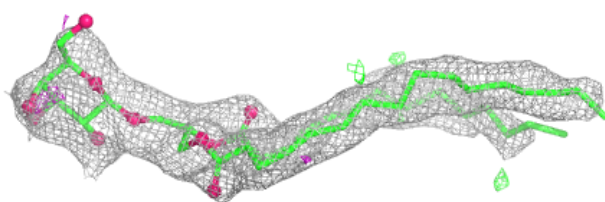
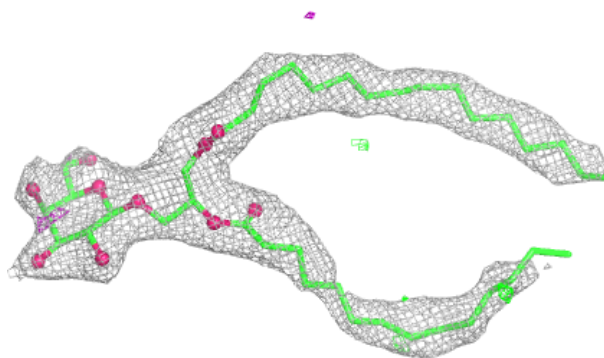
**Electron density around STE A 616:**

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

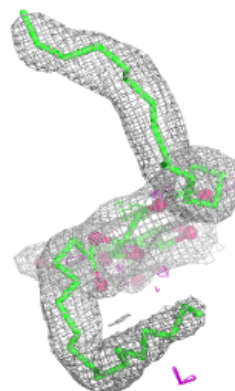
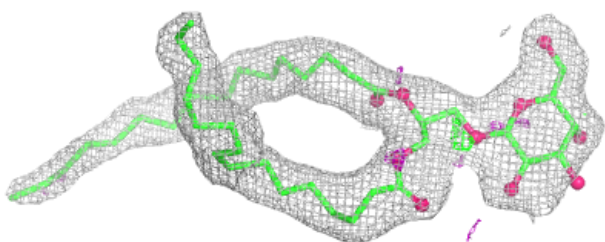
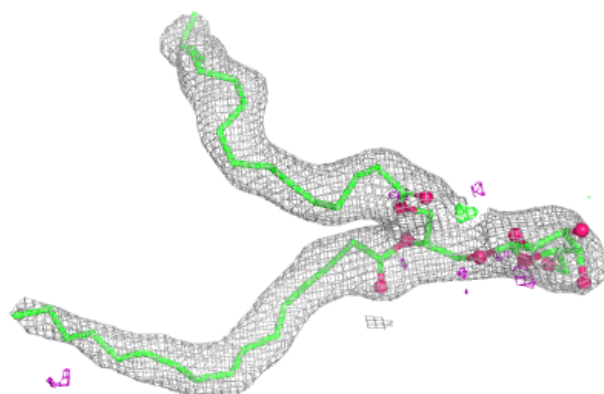


Electron density around LMG a 616:

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

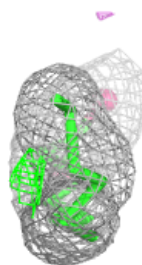
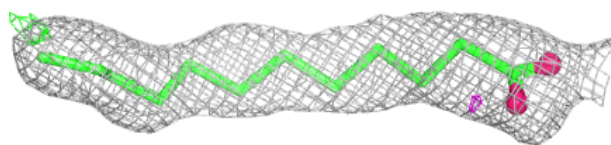
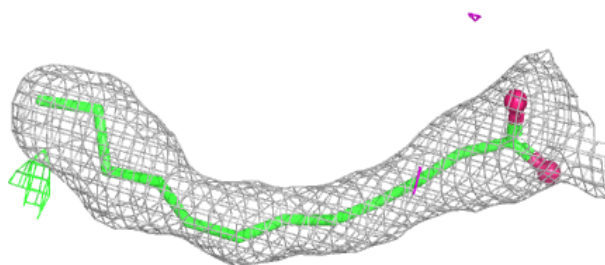
**Electron density around LMG b 622:**

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

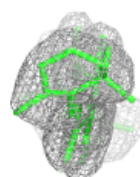
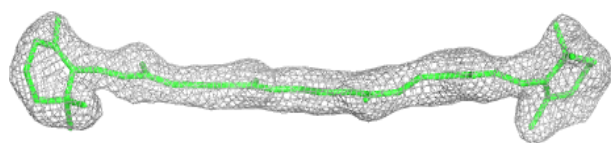
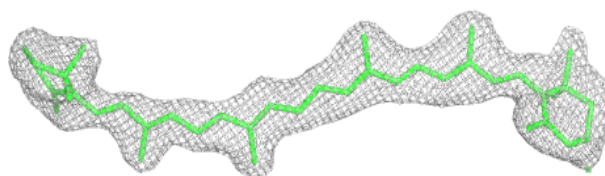


Electron density around STE B 624:

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

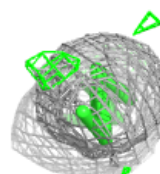
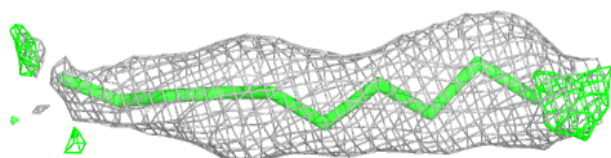
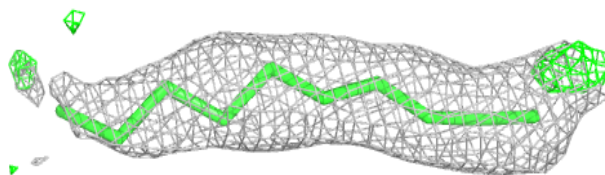
**Electron density around BCR k 101:**

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

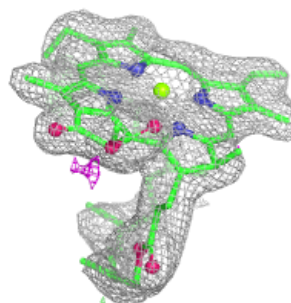
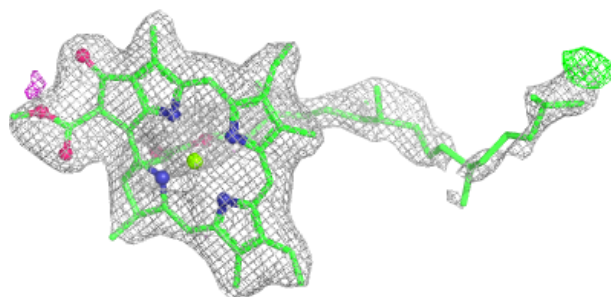
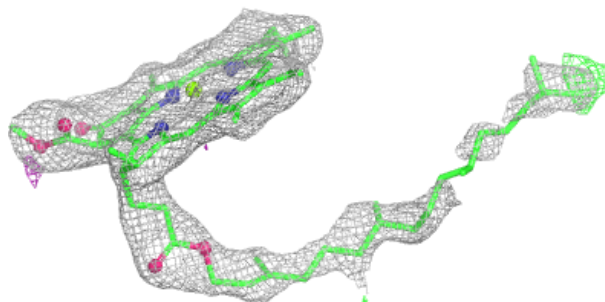


Electron density around STE M 102:

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

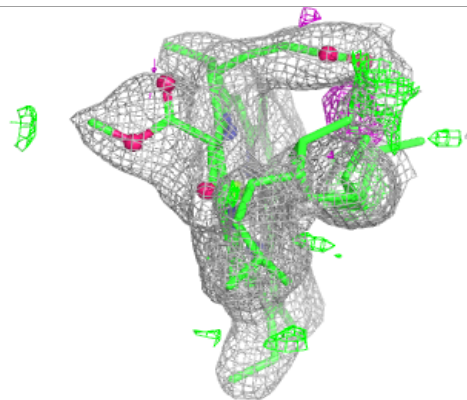
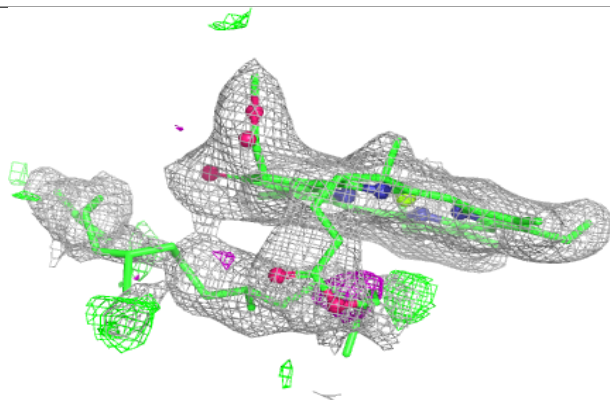
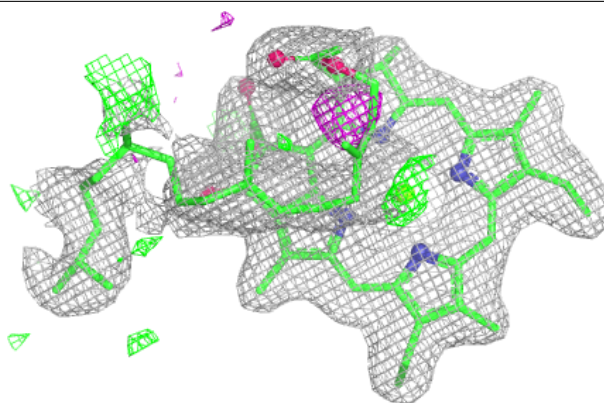
**Electron density around CLA C 513:**

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

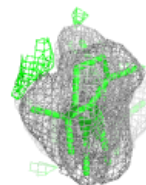
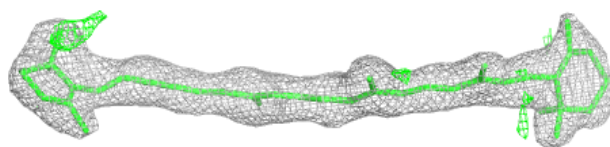
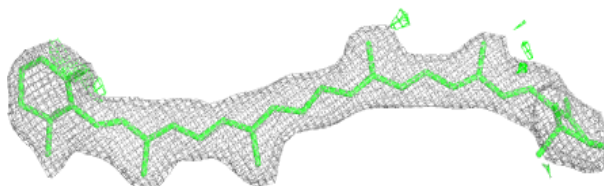


Electron density around CLA B 601:

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

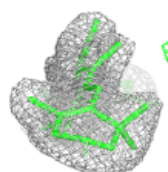
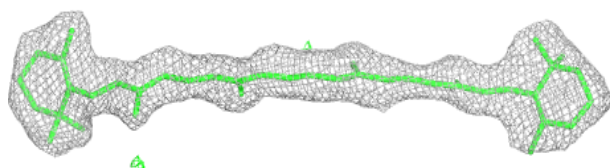
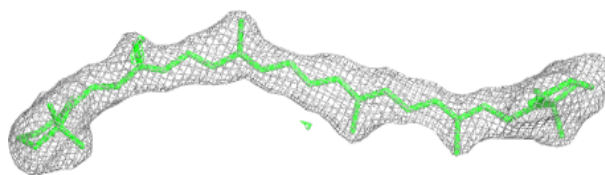
**Electron density around BCR C 521:**

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

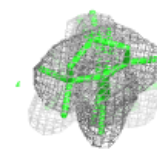
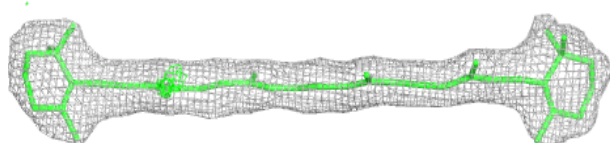
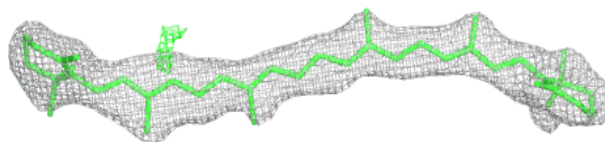


Electron density around BCR h 101:

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

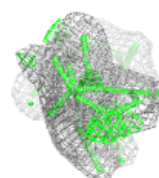
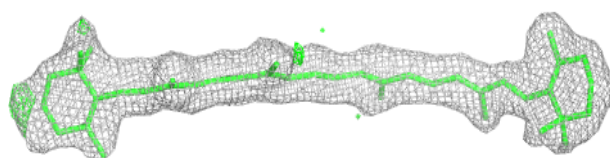
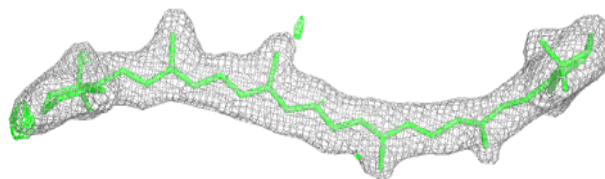
**Electron density around BCR C 514:**

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



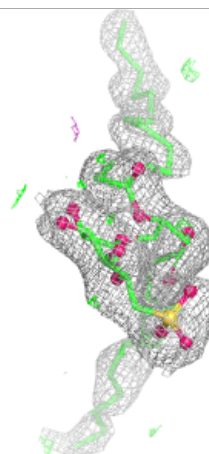
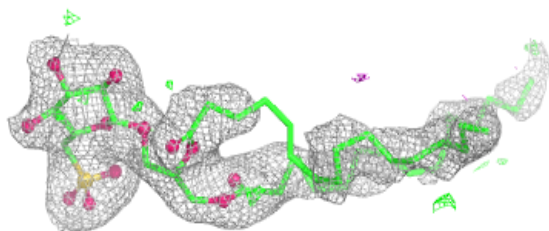
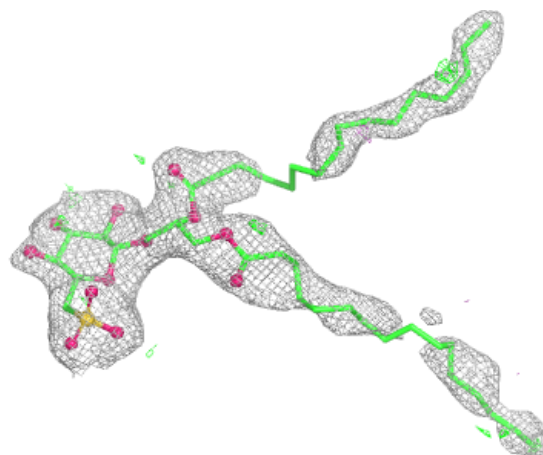
Electron density around BCR H 101:

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



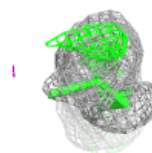
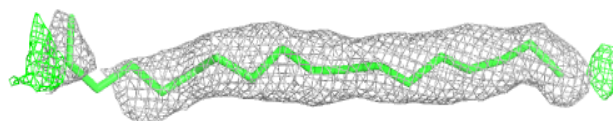
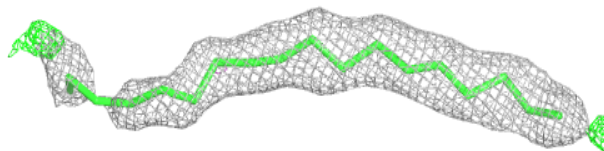
Electron density around SQD a 613:

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

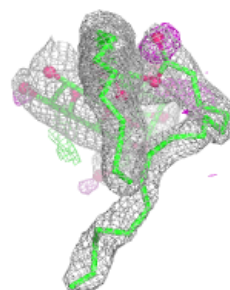
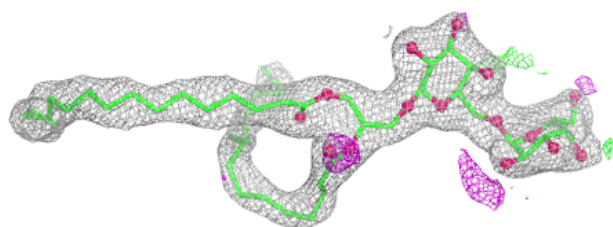
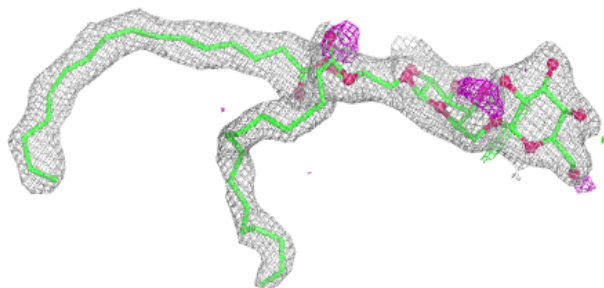


Electron density around STE m 102:

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

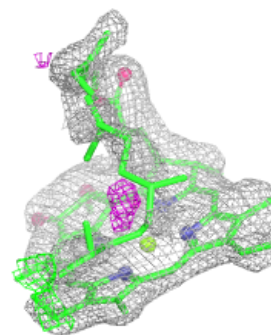
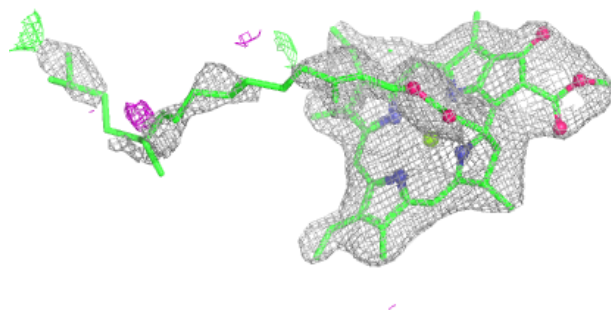
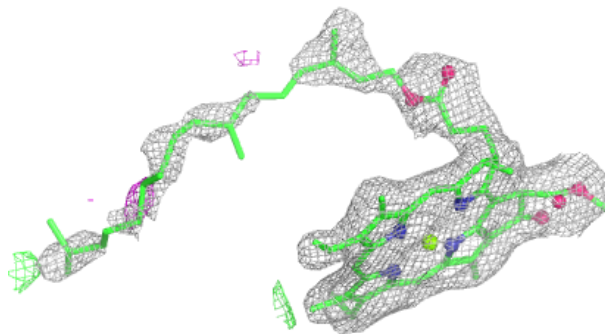
**Electron density around DGD h 102:**

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



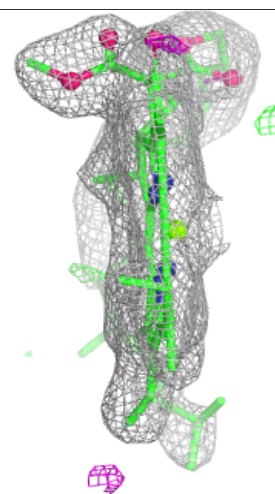
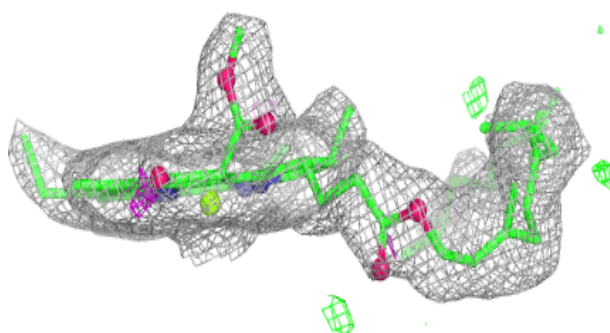
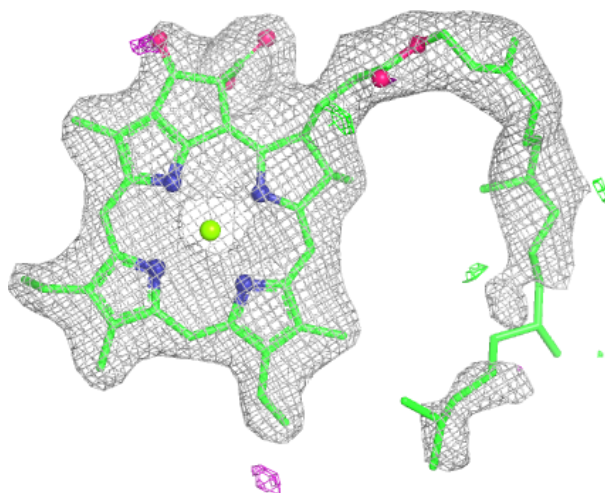
Electron density around CLA c 513:

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



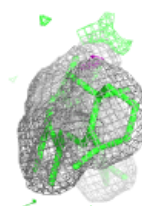
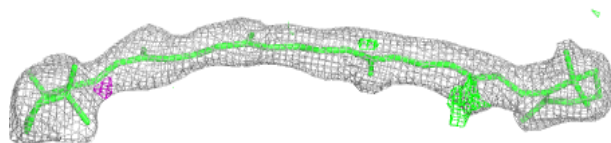
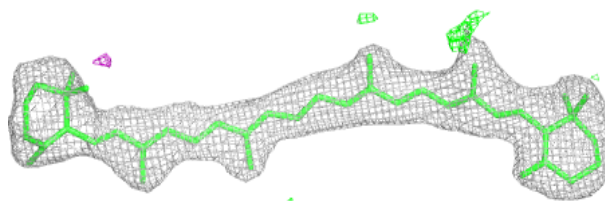
Electron density around CLA C 512:

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



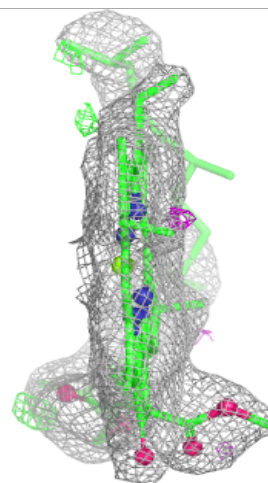
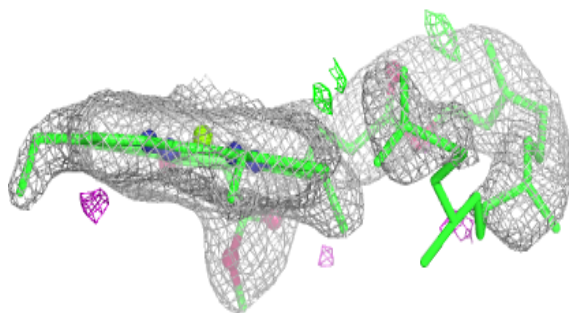
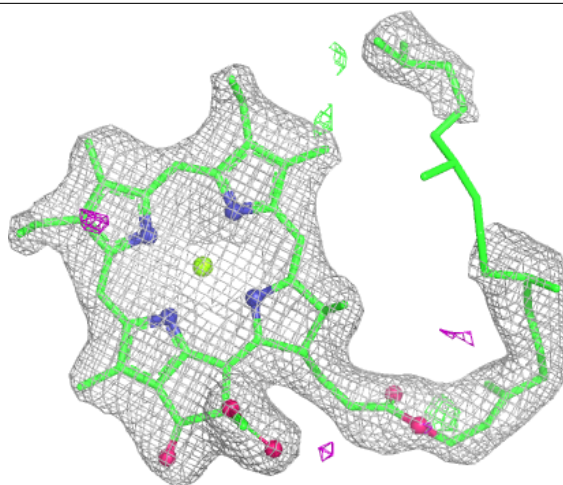
Electron density around BCR d 405:

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



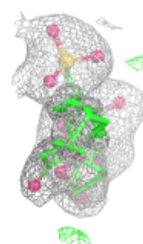
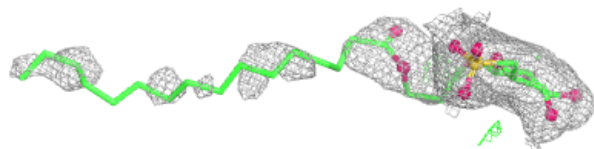
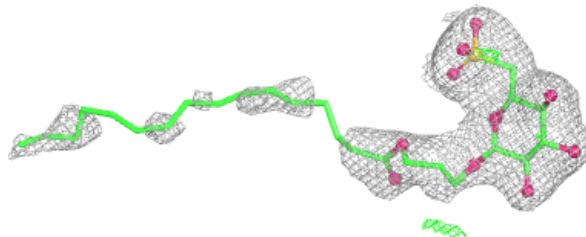
Electron density around CLA c 512:

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



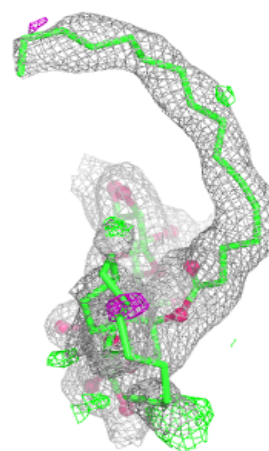
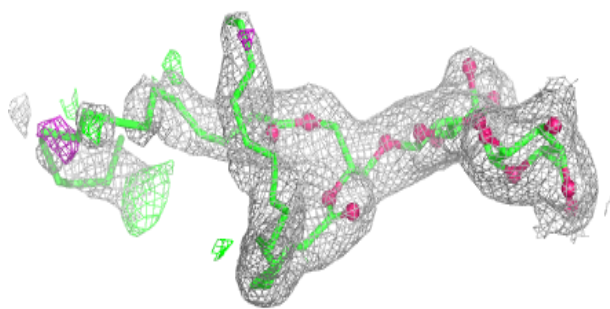
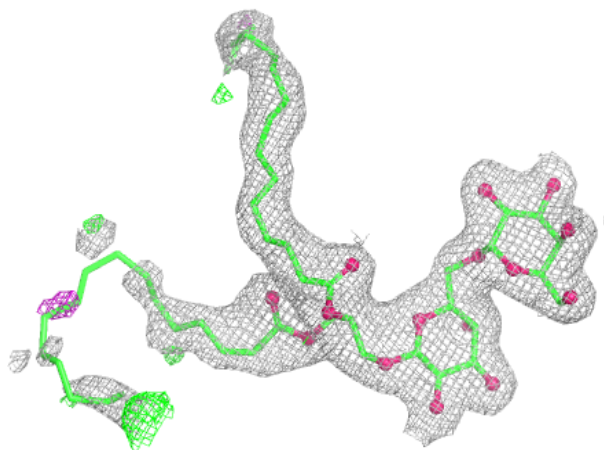
Electron density around SQD D 409:

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



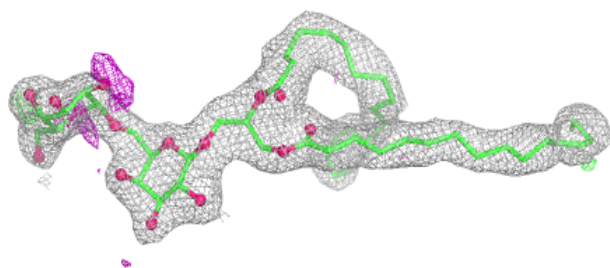
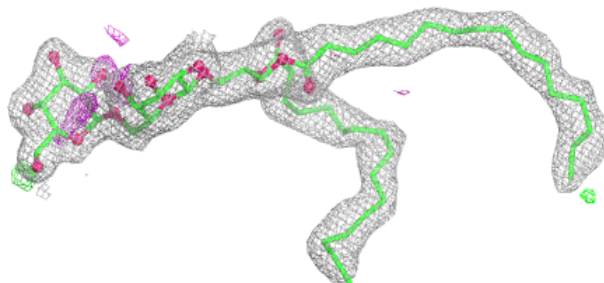
Electron density around DGD C 524:

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

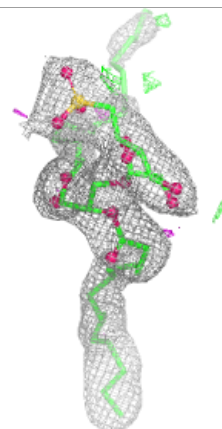
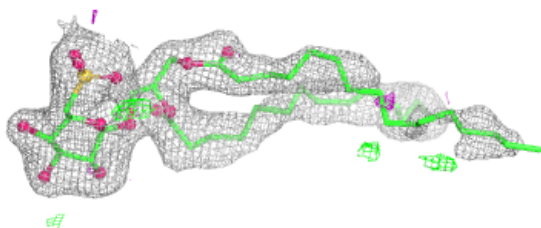


Electron density around DGD H 102:

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

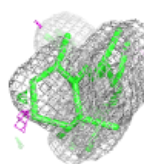
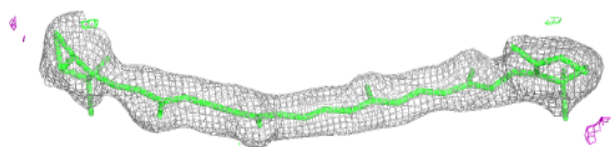
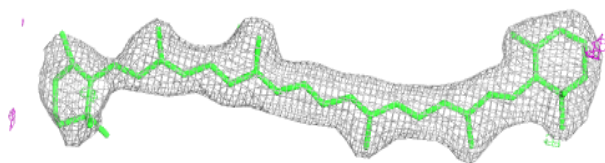
**Electron density around SQD A 613:**

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



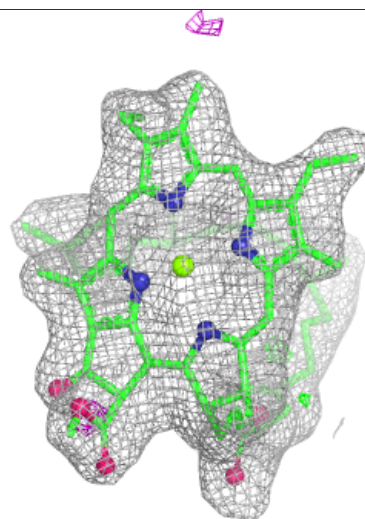
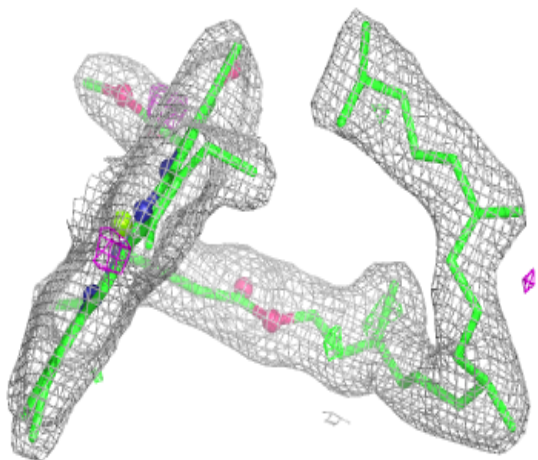
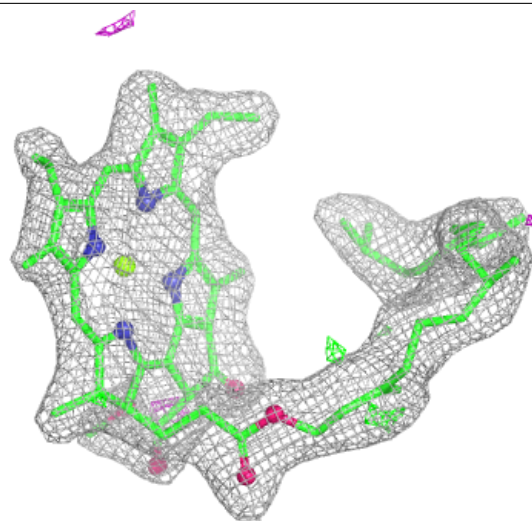
Electron density around BCR D 405:

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



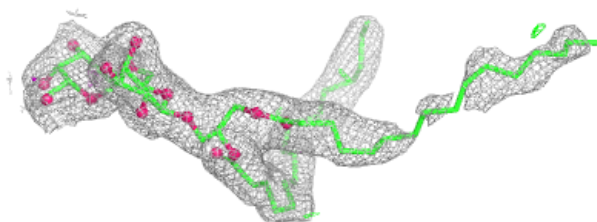
Electron density around CLA c 503:

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

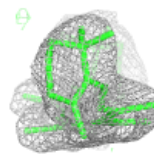
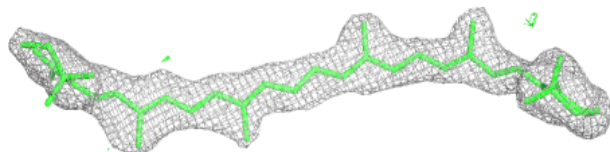
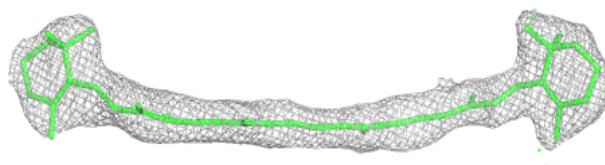


Electron density around DGD c 520:

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

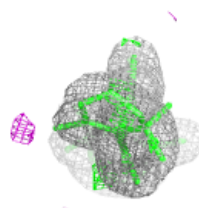
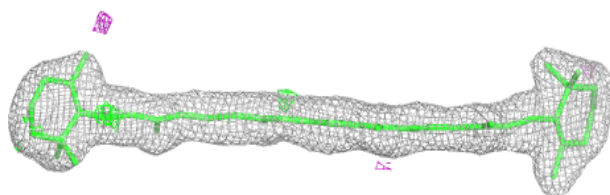
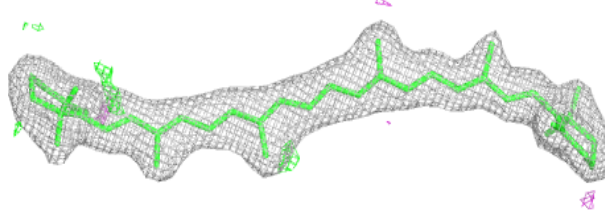
**Electron density around BCR k 102:**

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

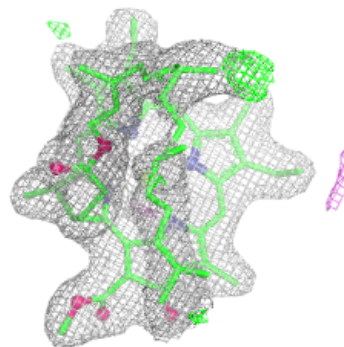
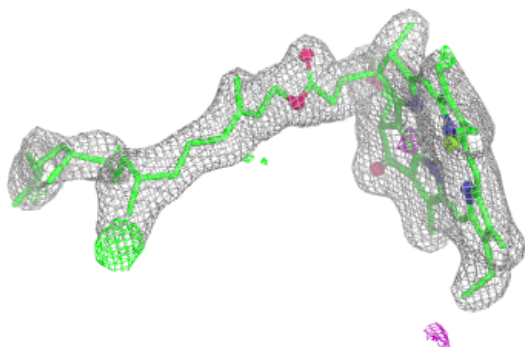
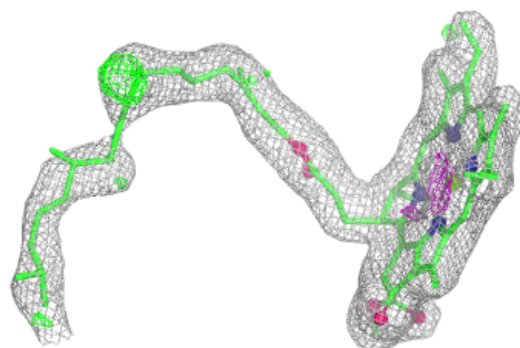


Electron density around BCR C 515:

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

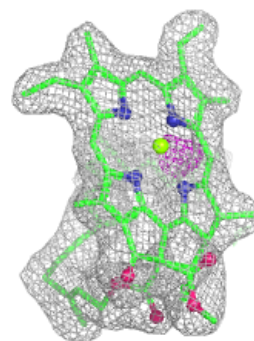
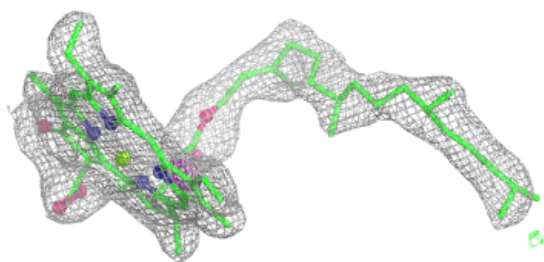
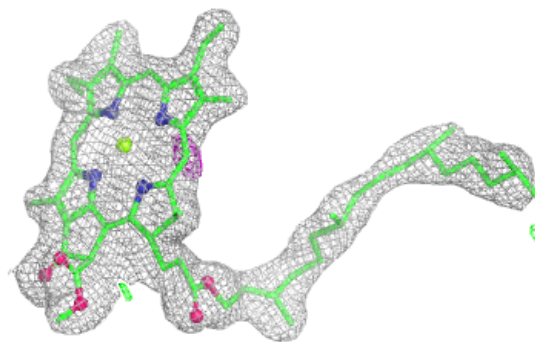
**Electron density around CLA b 606:**

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

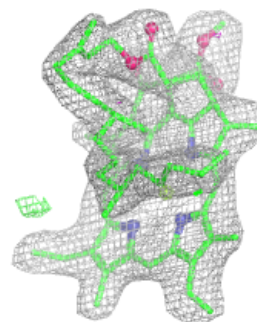
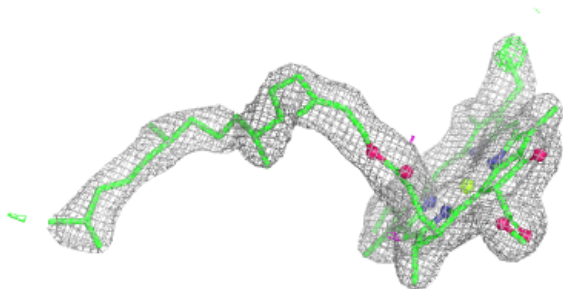
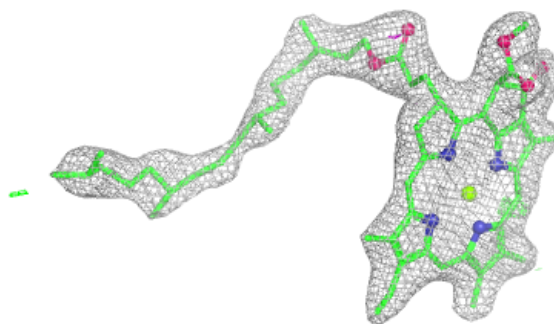


Electron density around CLA C 511:

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

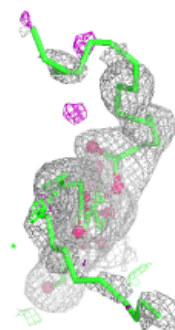
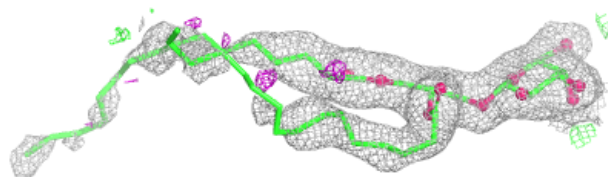
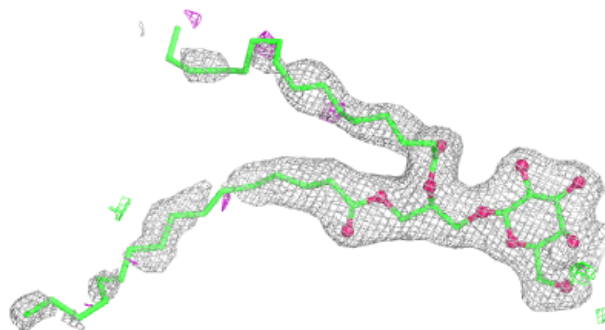
**Electron density around CLA c 511:**

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

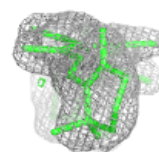
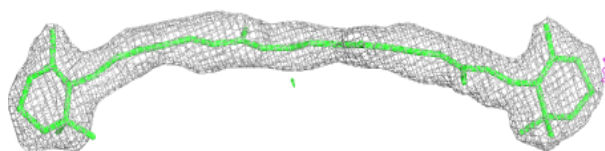


Electron density around LMG D 408:

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

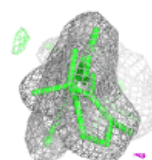
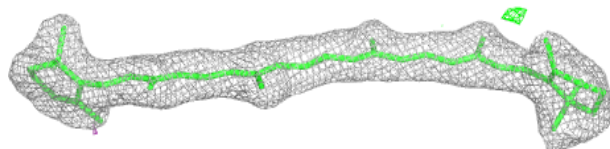
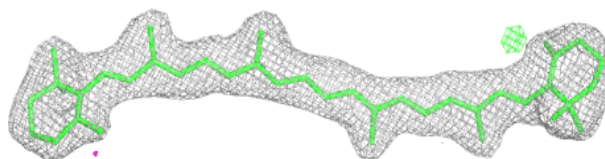
**Electron density around BCR K 101:**

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



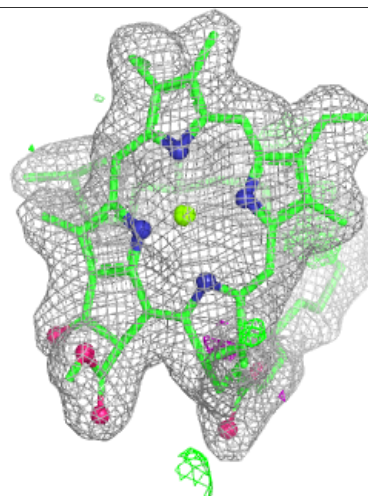
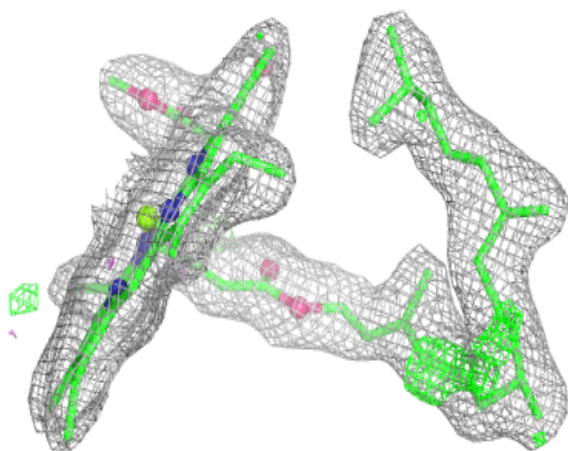
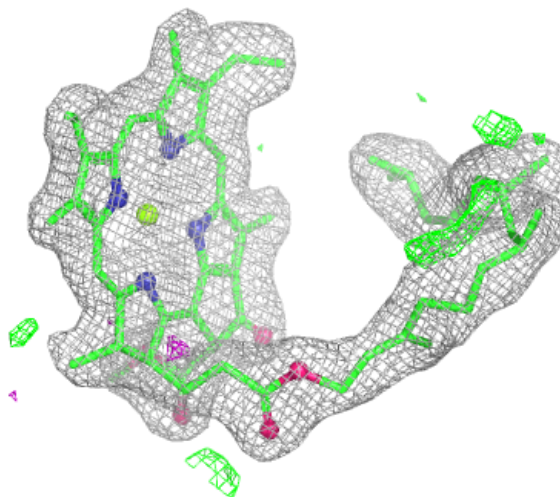
Electron density around BCR b 619:

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



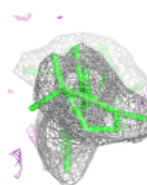
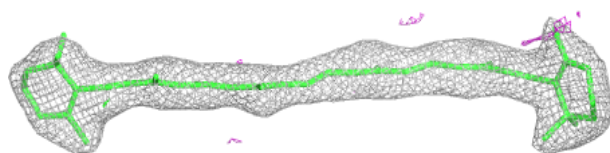
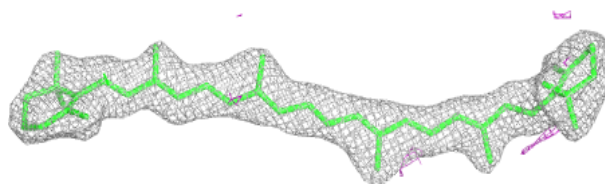
Electron density around CLA C 503:

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

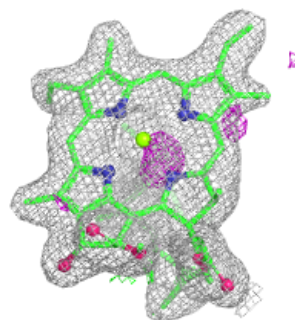
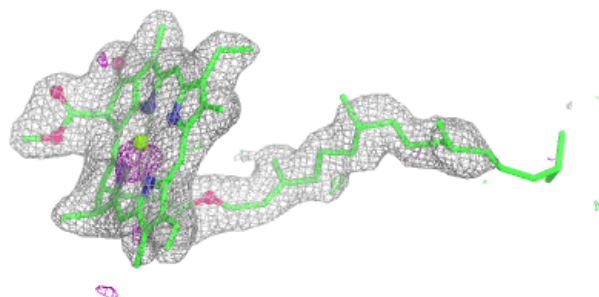
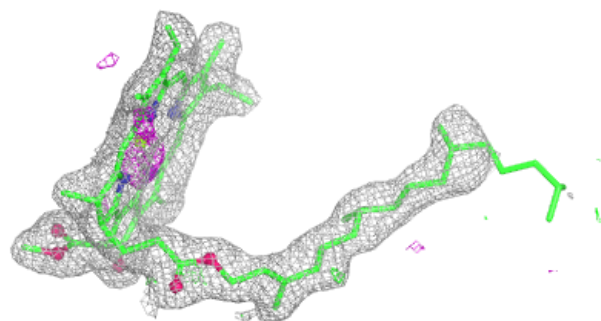


Electron density around BCR c 515:

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

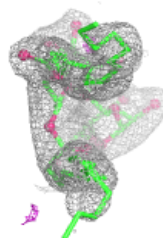
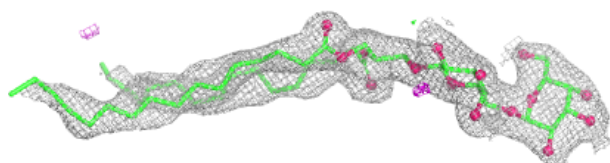
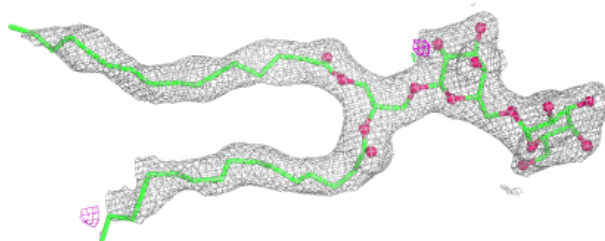
**Electron density around CLA C 508:**

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

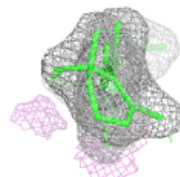
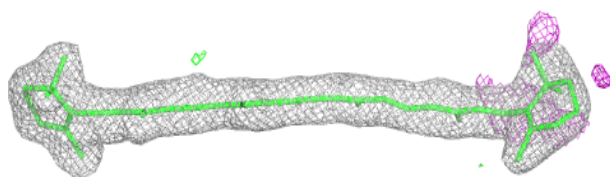
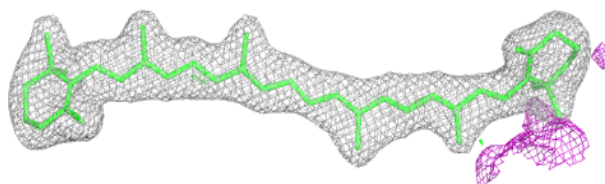


Electron density around DGD c 521:

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

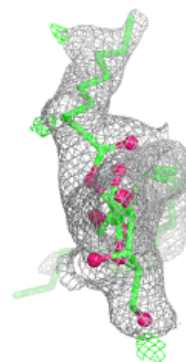
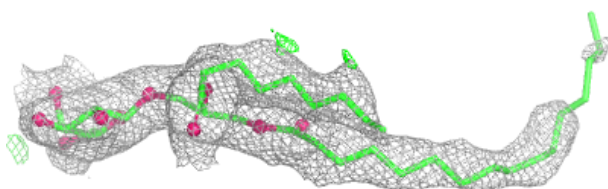
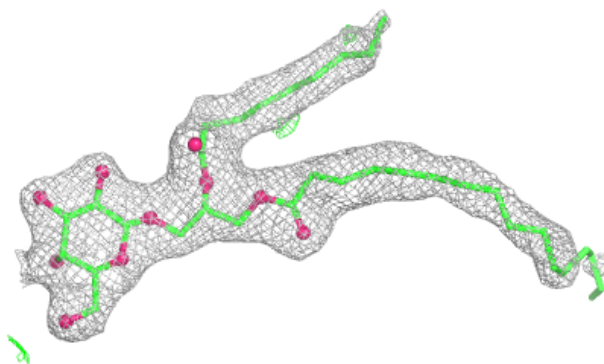
**Electron density around BCR B 618:**

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

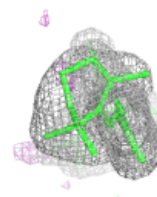
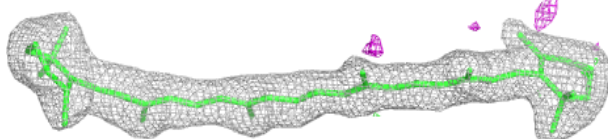
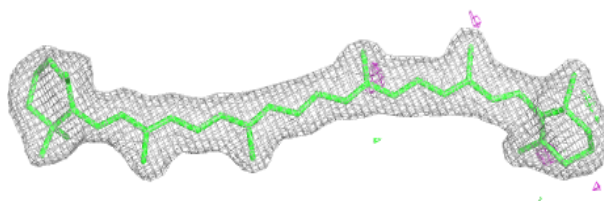


Electron density around LMG d 411:

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

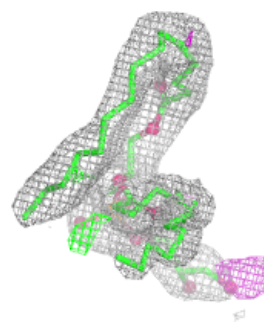
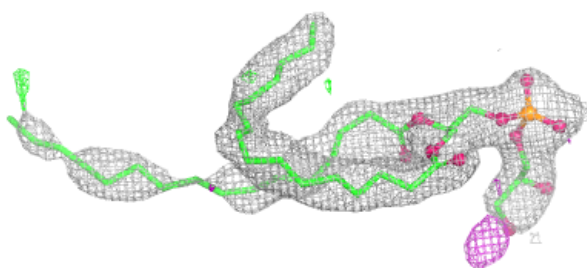
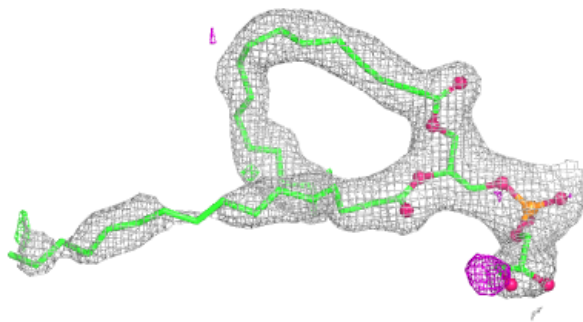
**Electron density around BCR B 619:**

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



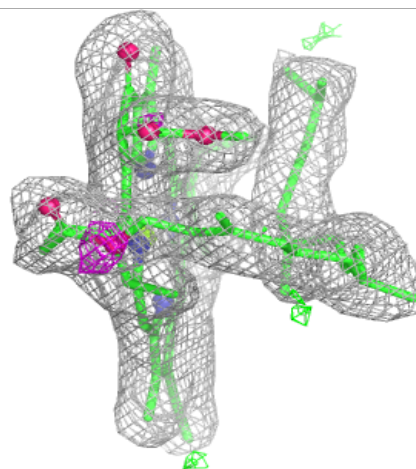
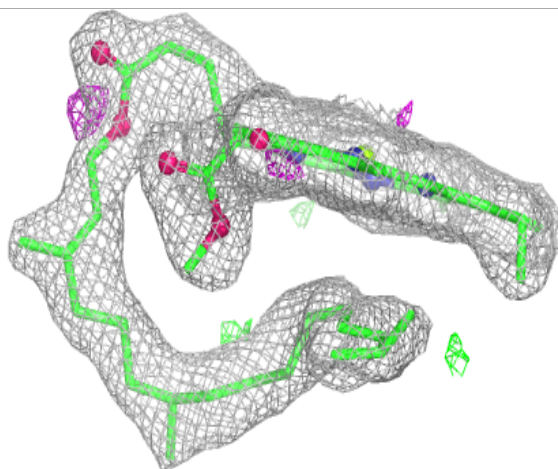
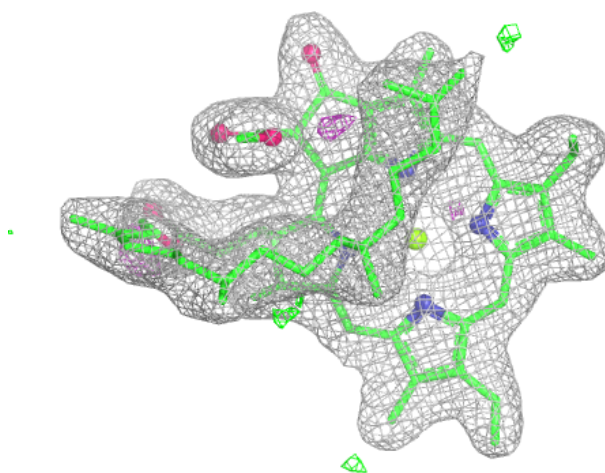
Electron density around LHG d 408:

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



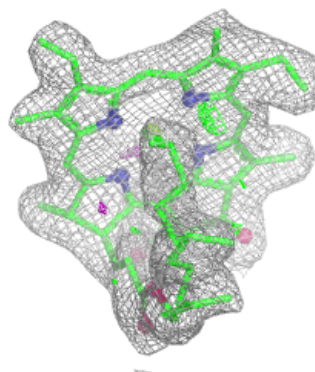
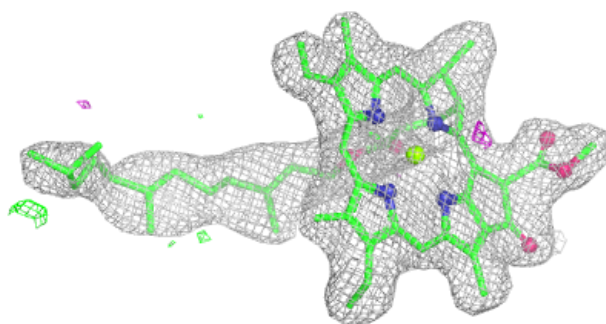
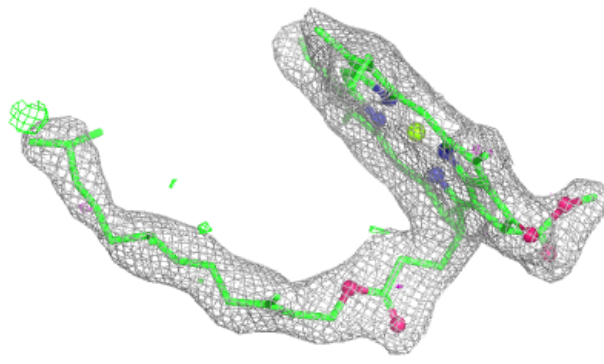
Electron density around CLA C 510:

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



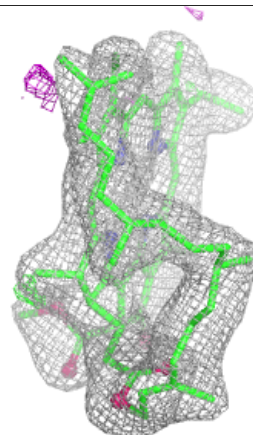
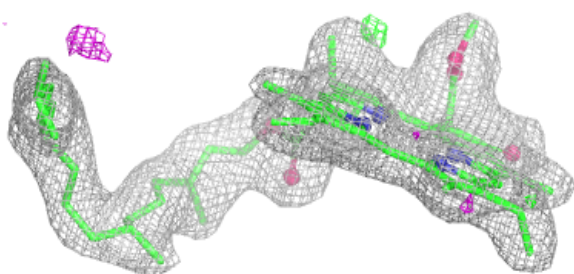
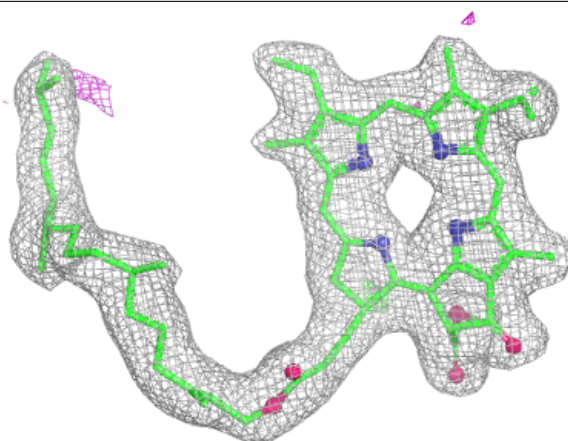
Electron density around CLA c 504:

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

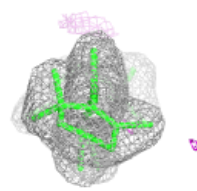
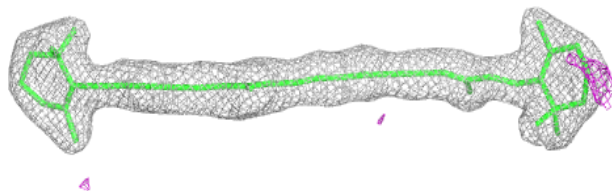
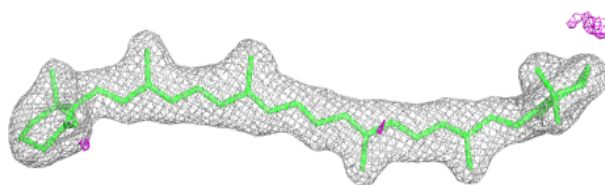


Electron density around PHO d 402:

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

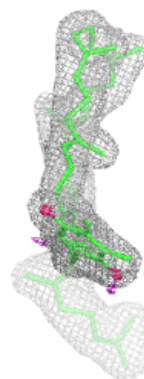
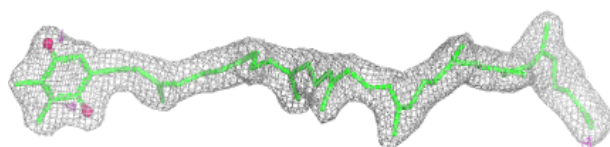
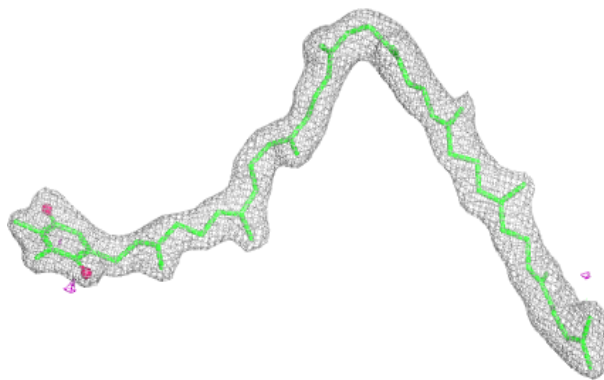
**Electron density around BCR A 610:**

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

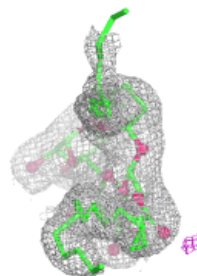
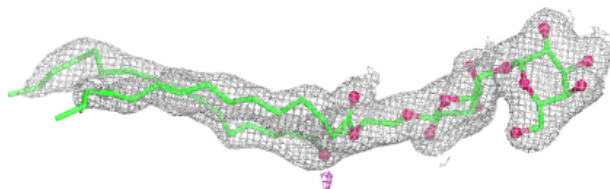
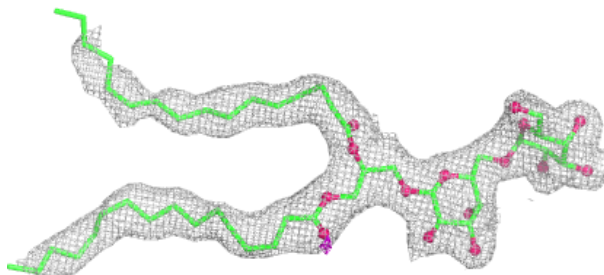


Electron density around PL9 d 406:

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

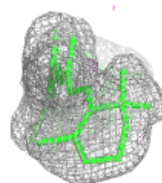
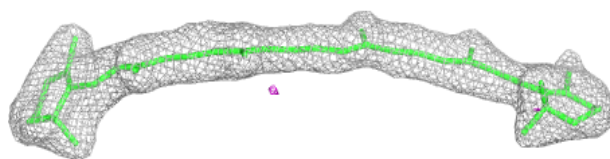
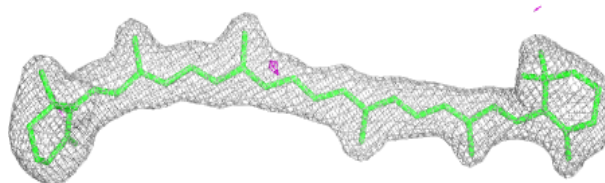
**Electron density around DGD C 525:**

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

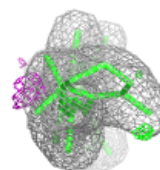
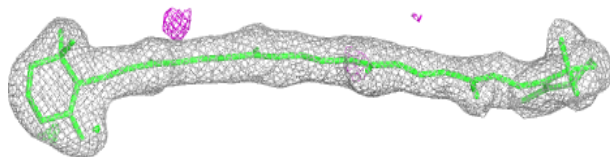
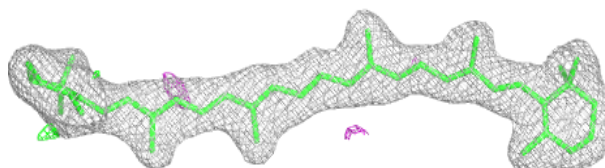


Electron density around BCR T 101:

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

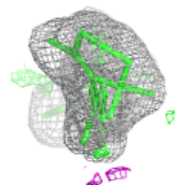
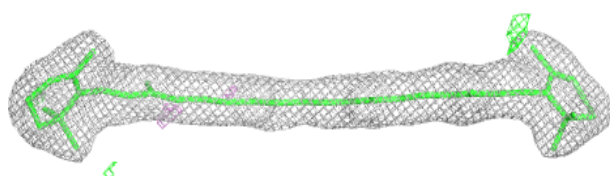
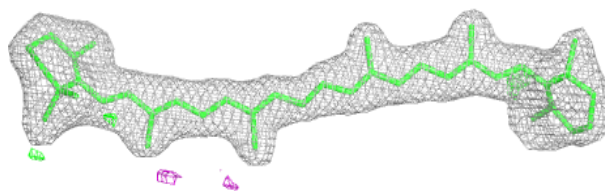
**Electron density around BCR b 617:**

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

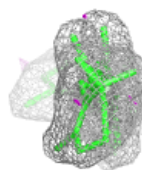
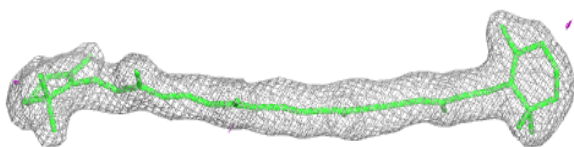
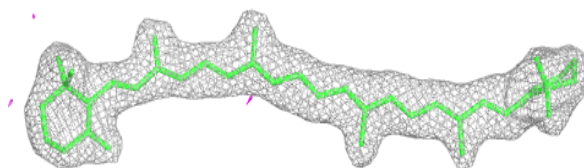


Electron density around BCR b 618:

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

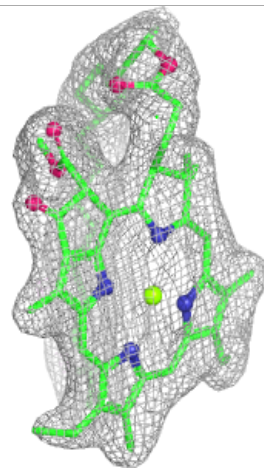
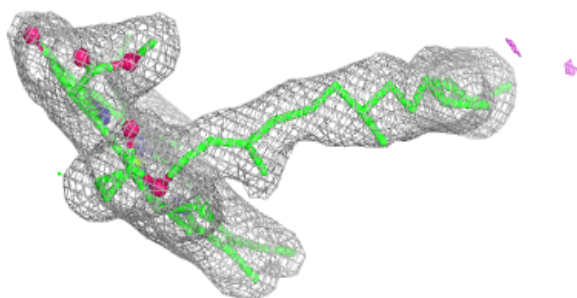
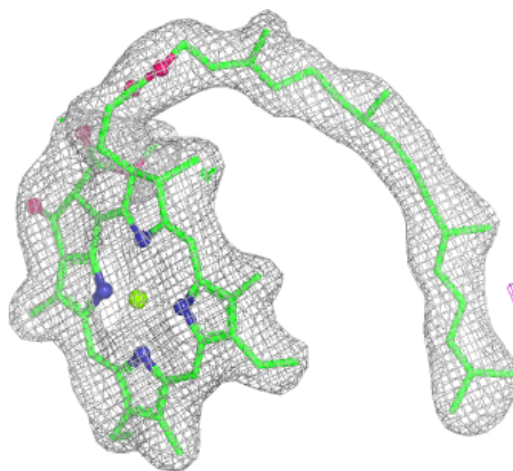
**Electron density around BCR B 617:**

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



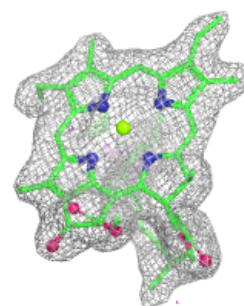
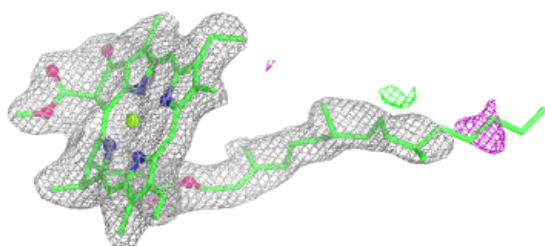
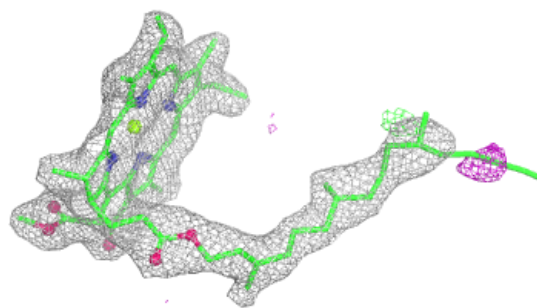
Electron density around CLA c 507:

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

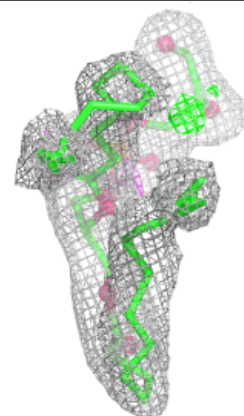
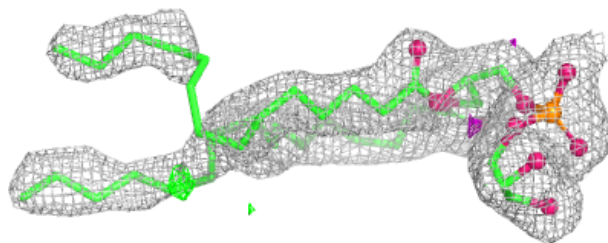
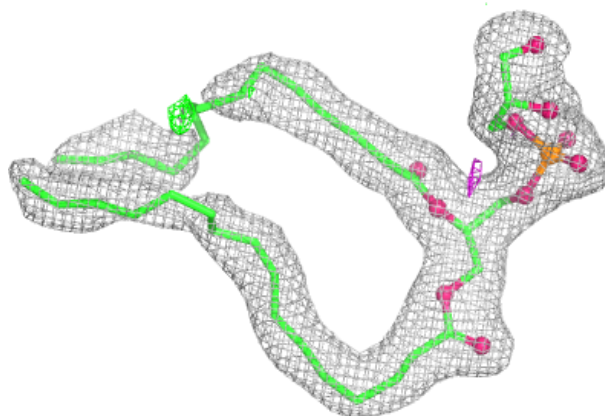


Electron density around CLA c 508:

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

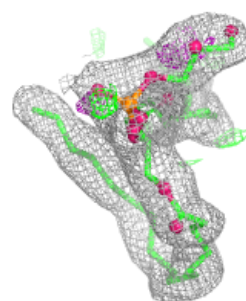
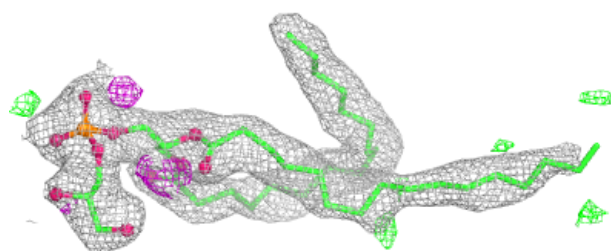
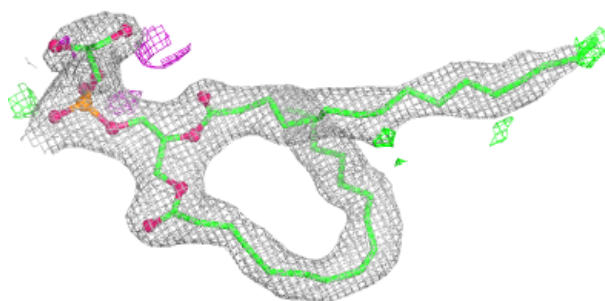
**Electron density around LHG D 411:**

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



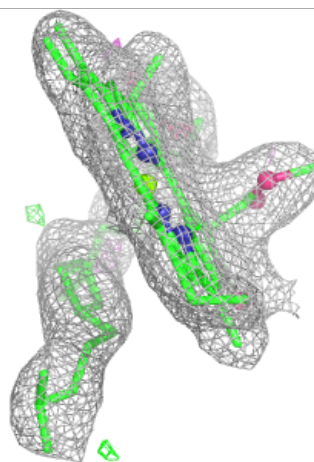
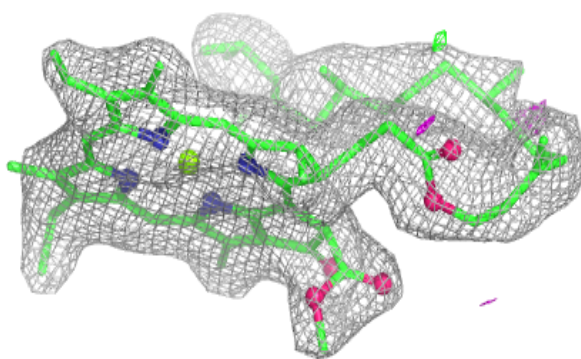
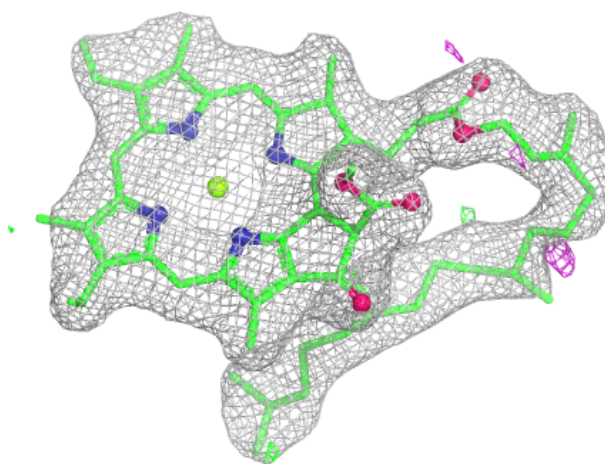
Electron density around LHG D 412:

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



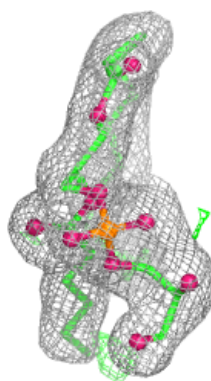
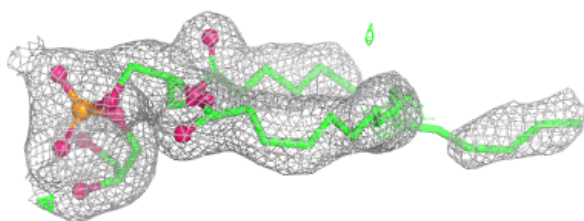
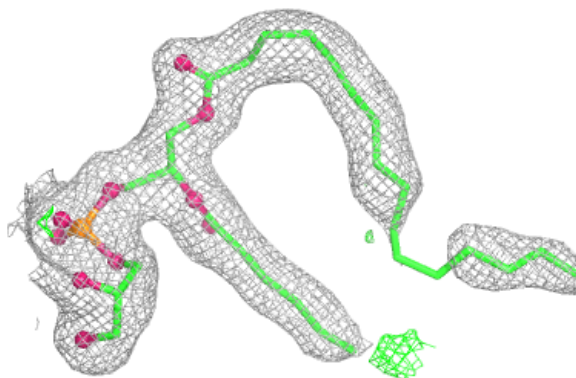
Electron density around CLA c 509:

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

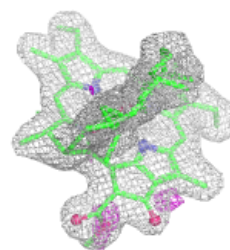
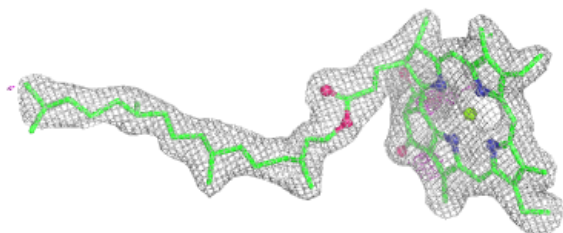
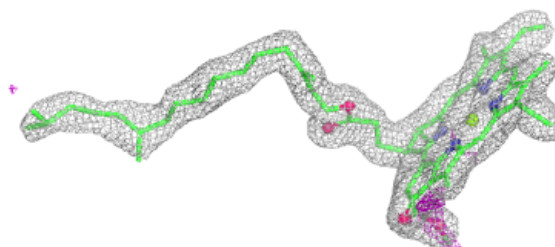


Electron density around LHG a 612:

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

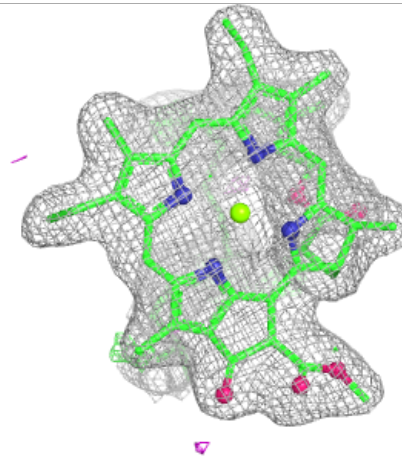
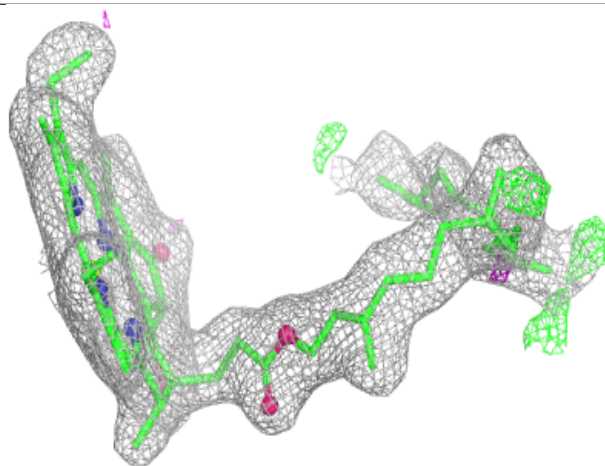
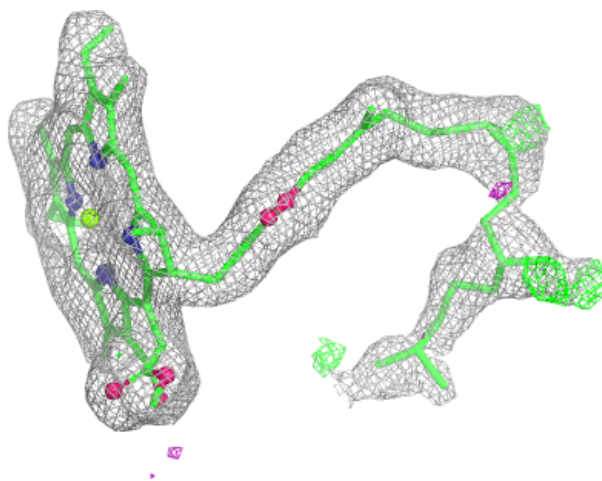
**Electron density around CLA C 502:**

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



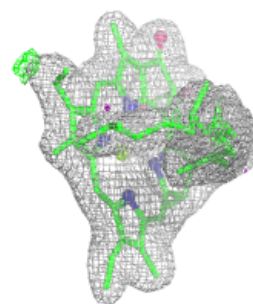
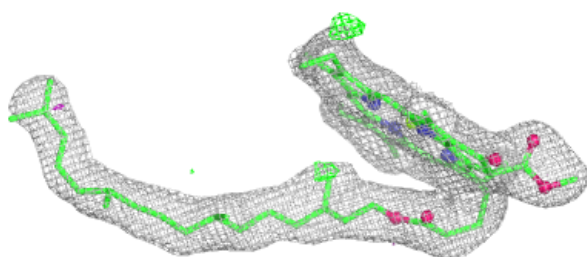
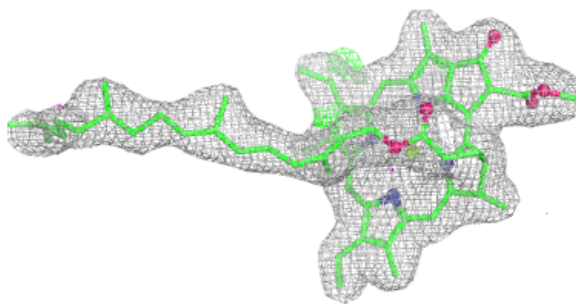
Electron density around CLA B 606:

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

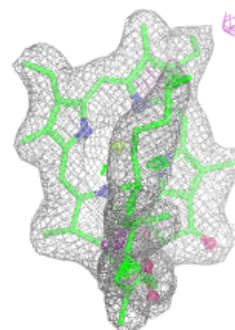
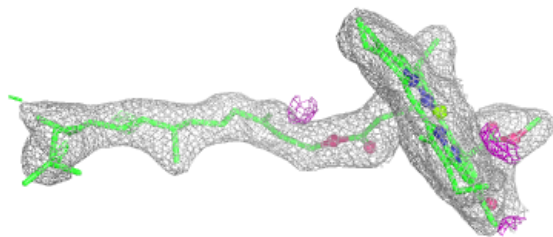
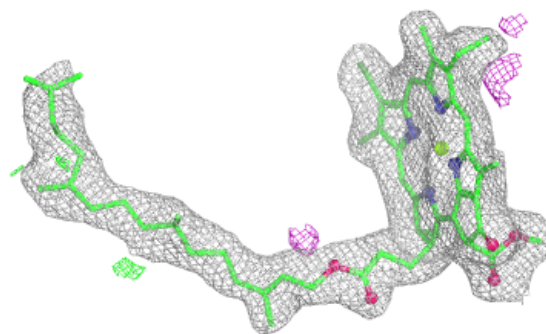


Electron density around CLA b 608:

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

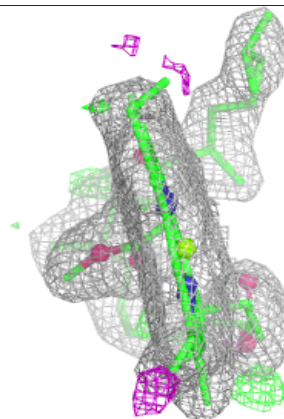
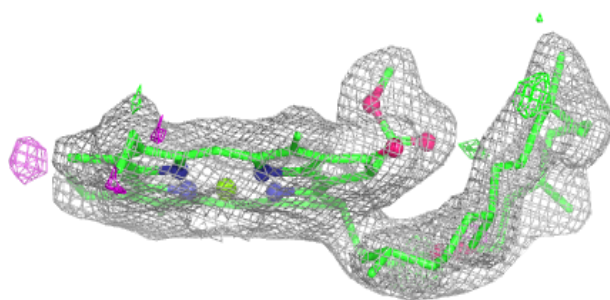
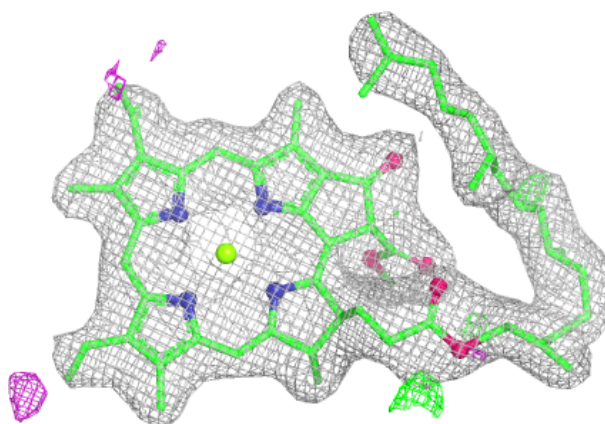
**Electron density around CLA b 609:**

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



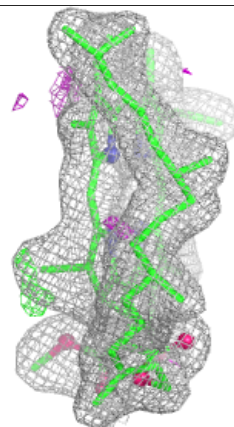
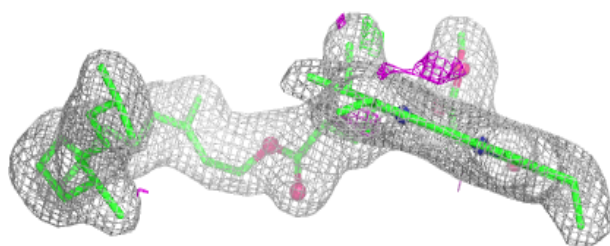
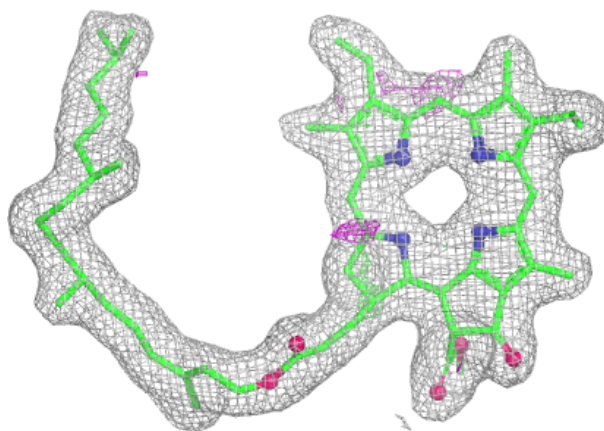
Electron density around CLA b 610:

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



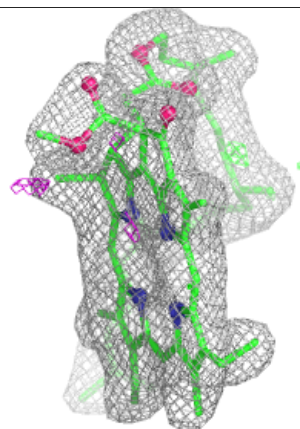
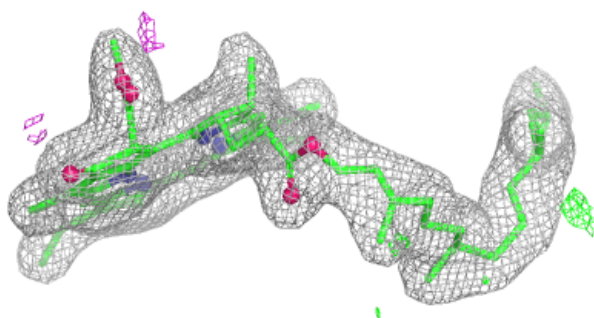
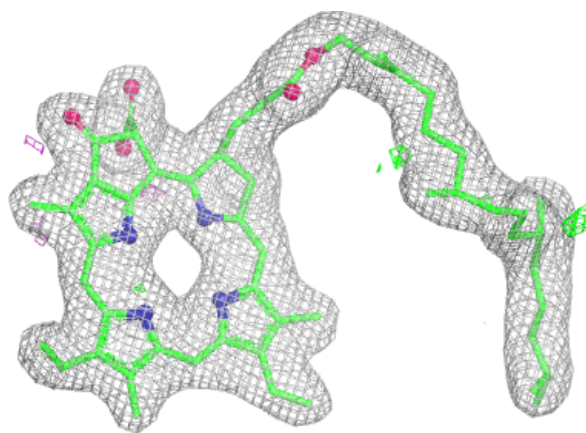
Electron density around PHO A 607:

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



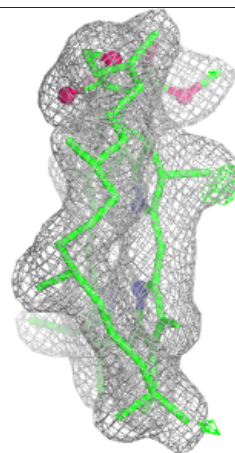
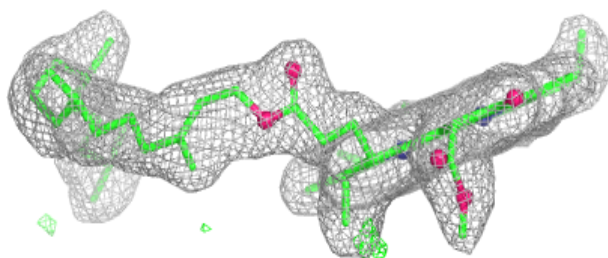
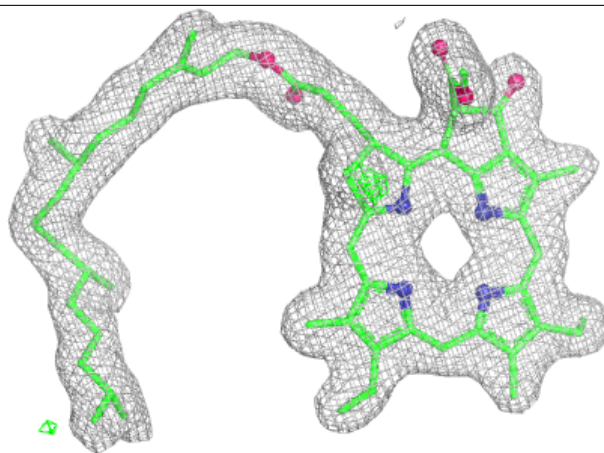
Electron density around PHO A 608:

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



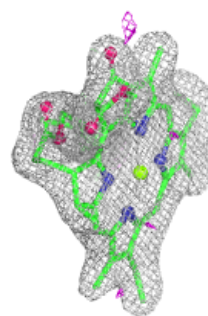
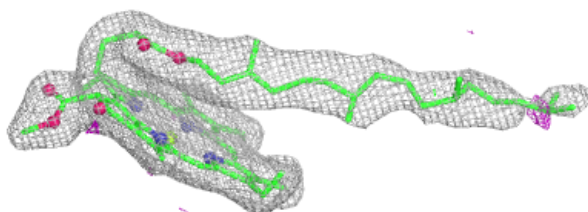
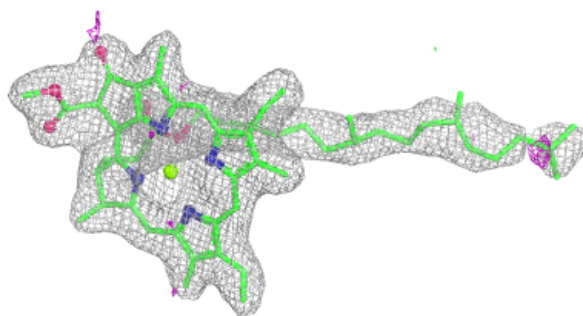
Electron density around PHO a 607:

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



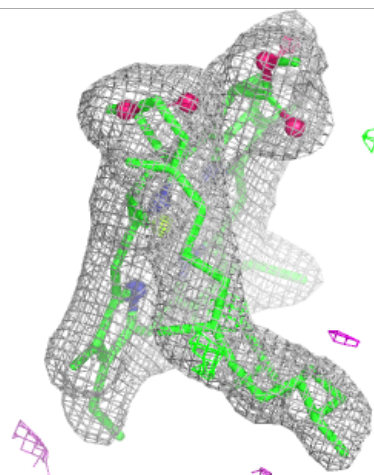
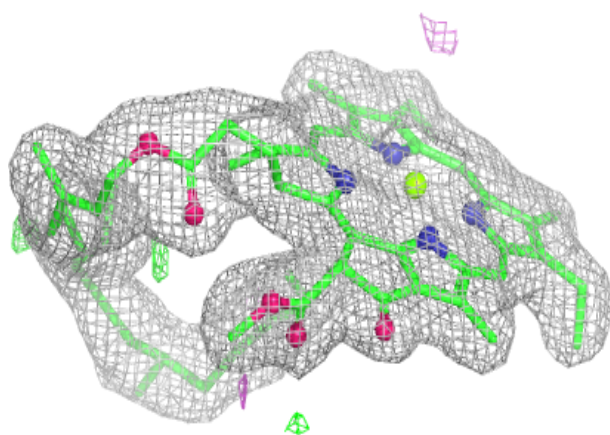
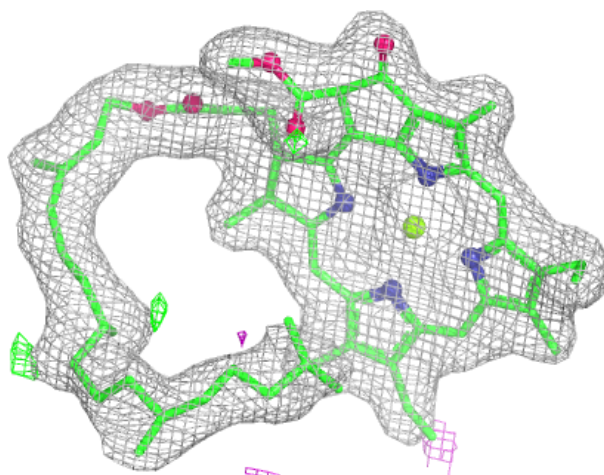
Electron density around CLA b 614:

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



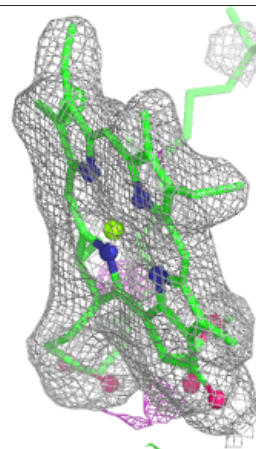
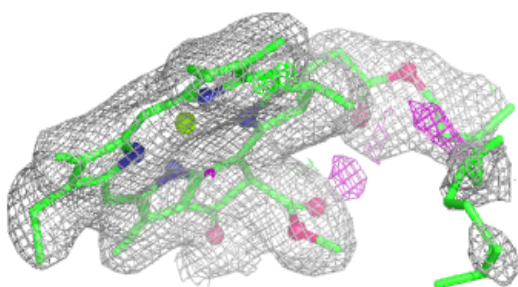
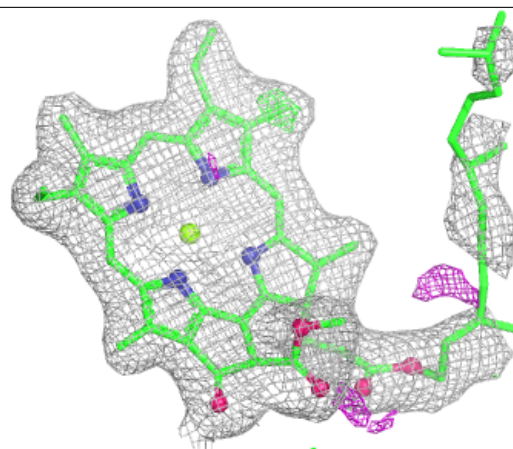
Electron density around CLA b 615:

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

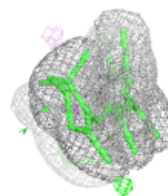
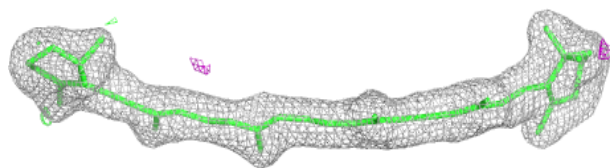
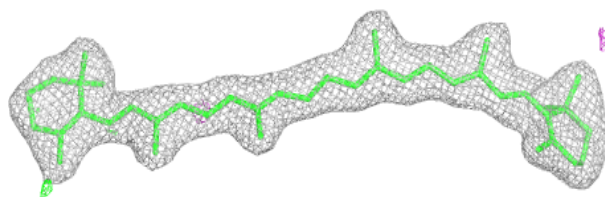


Electron density around CLA b 616:

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

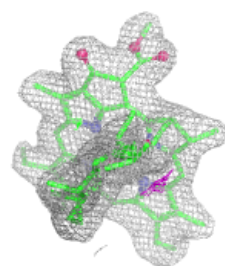
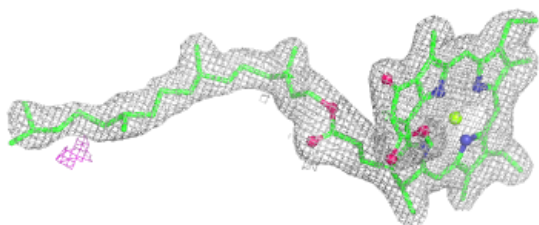
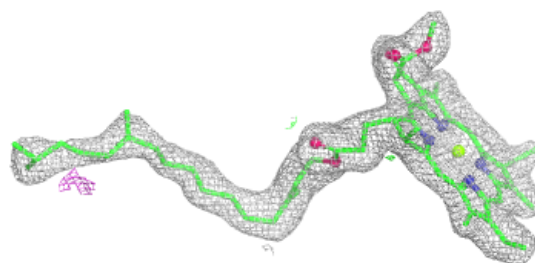
**Electron density around BCR t 101:**

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

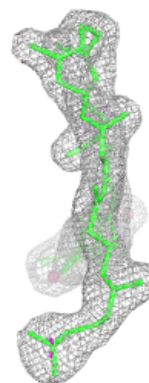
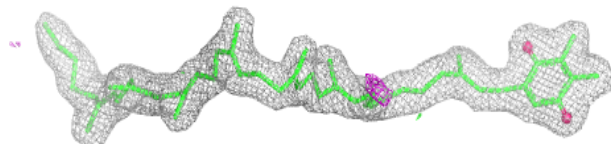
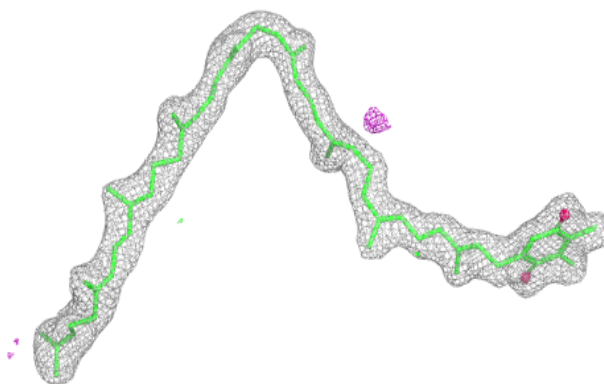


Electron density around CLA c 502:

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

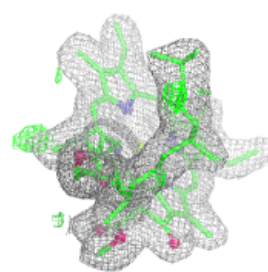
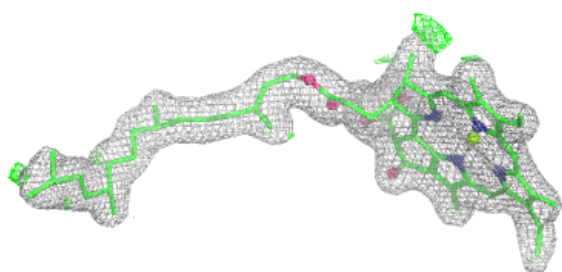
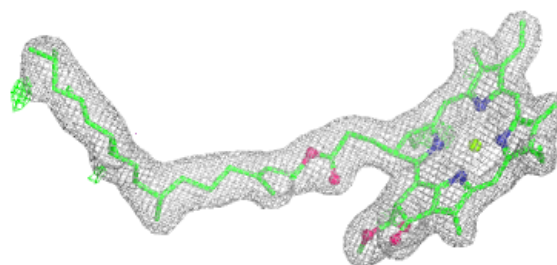
**Electron density around PL9 D 406:**

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

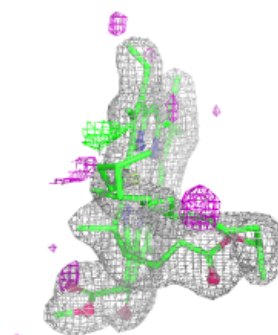
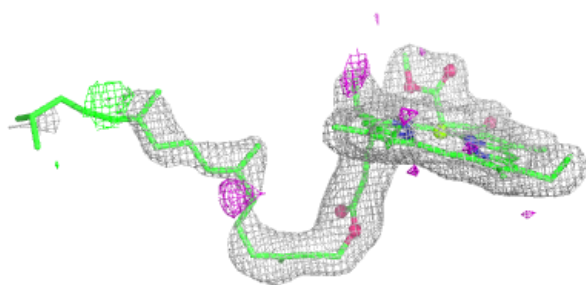
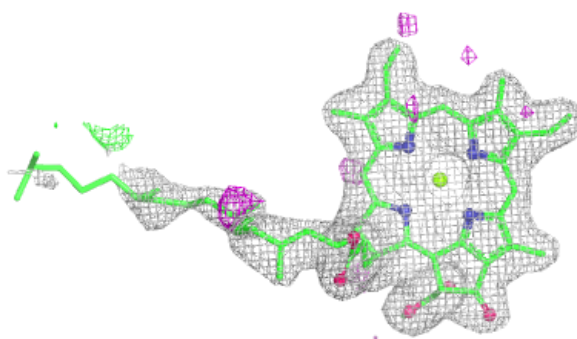


Electron density around CLA a 605:

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

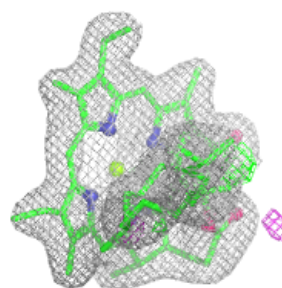
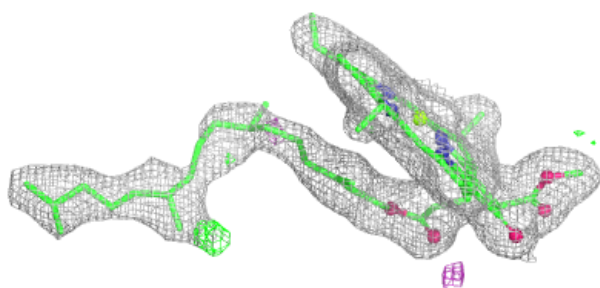
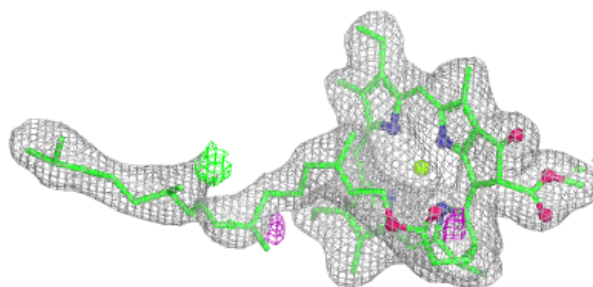
**Electron density around CLA a 606:**

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

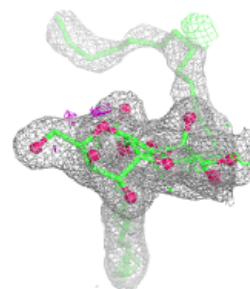
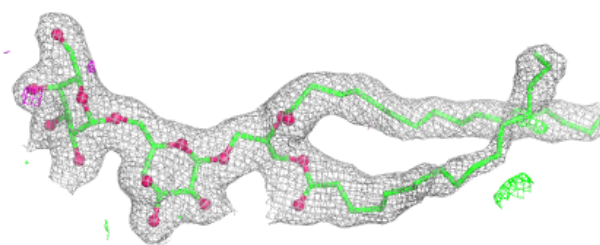
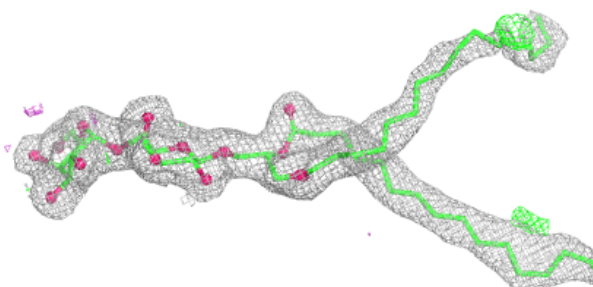


Electron density around CLA c 505:

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

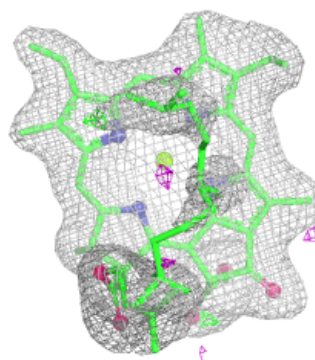
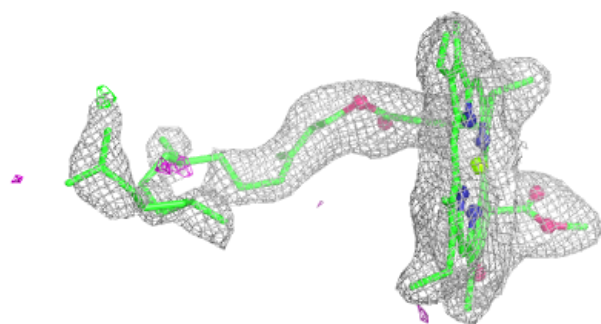
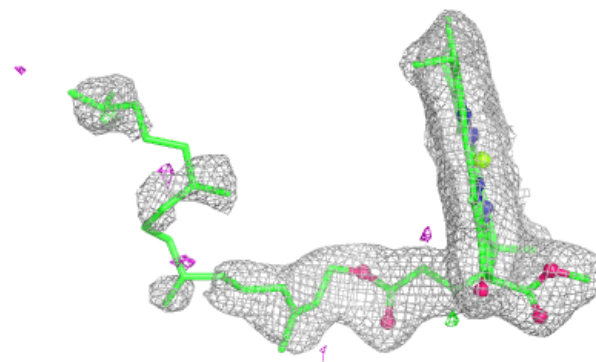
**Electron density around DGD C 523:**

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



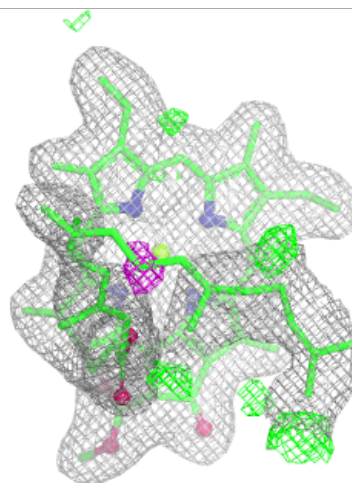
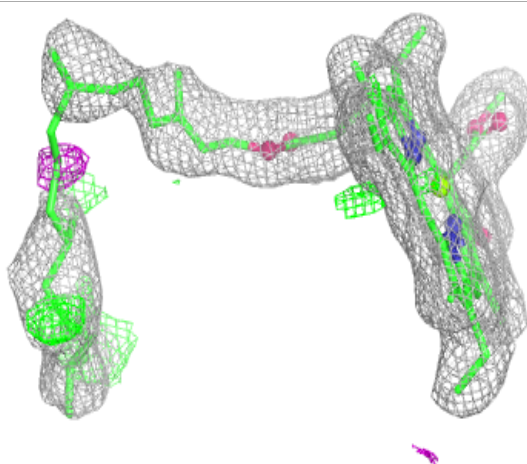
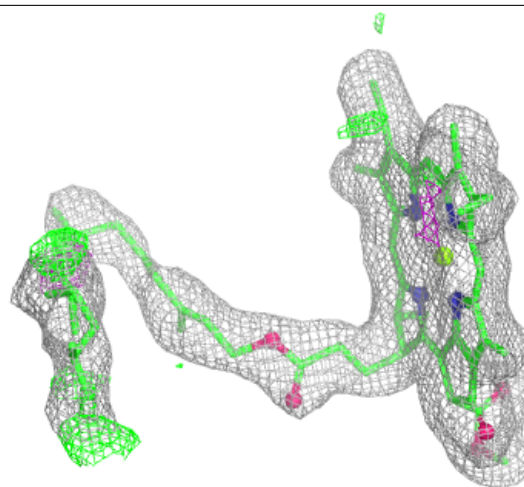
Electron density around CLA c 506:

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



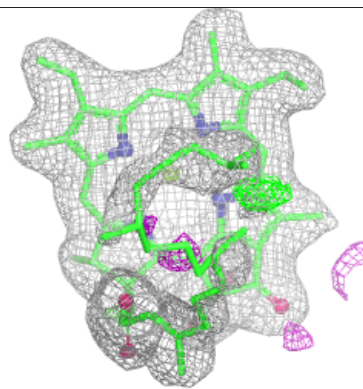
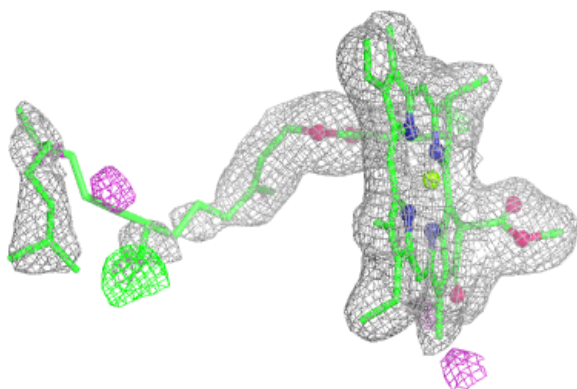
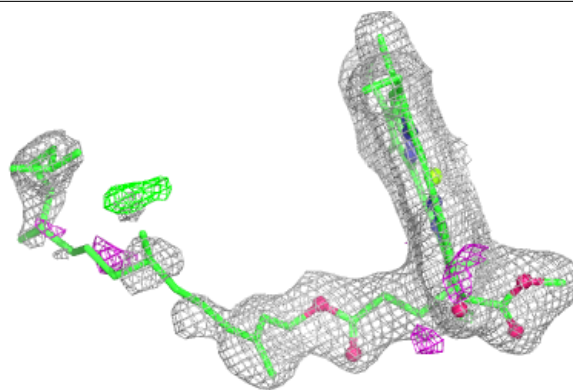
Electron density around CLA a 608:

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

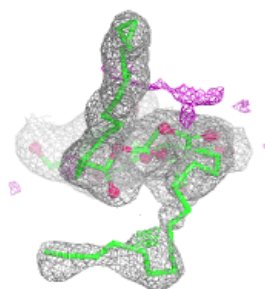
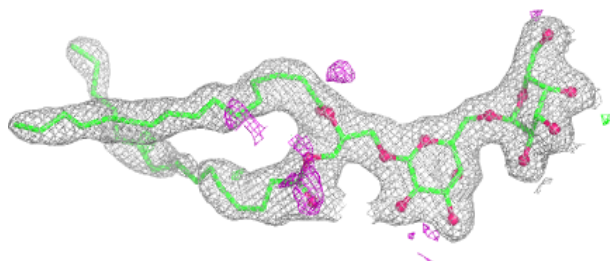
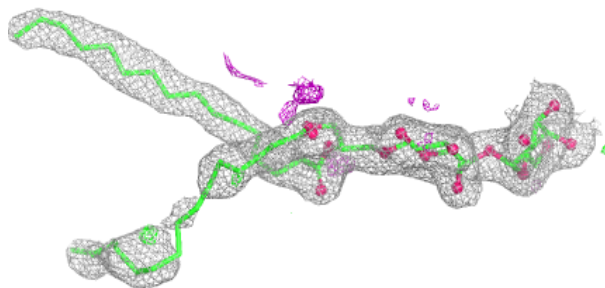


Electron density around CLA C 506:

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

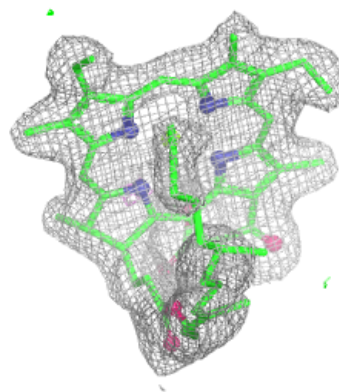
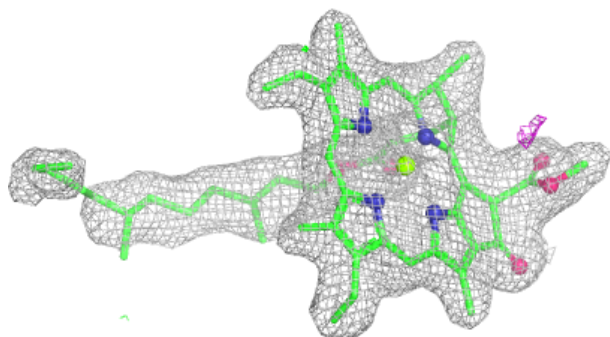
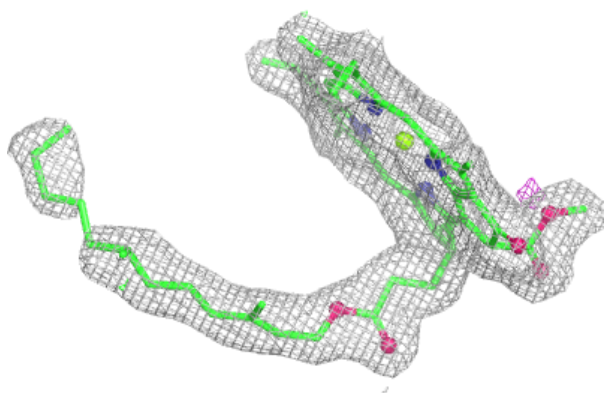
**Electron density around DGD c 519:**

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



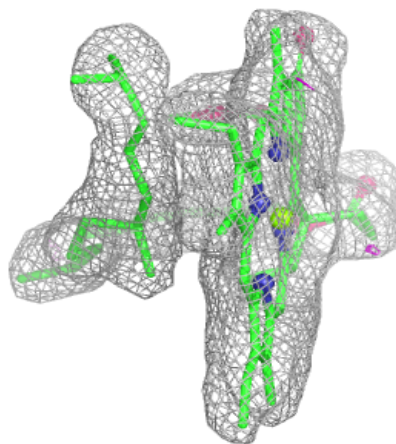
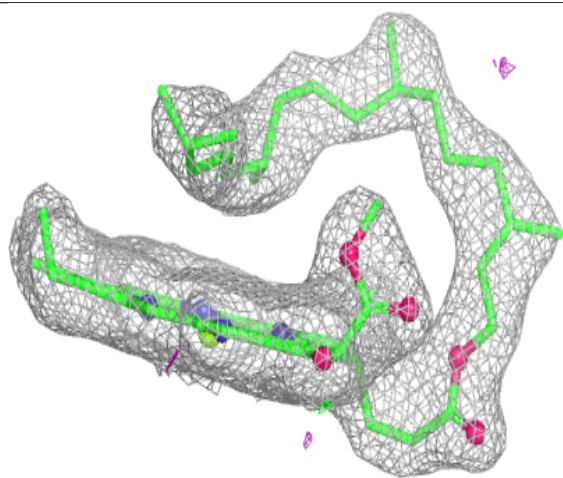
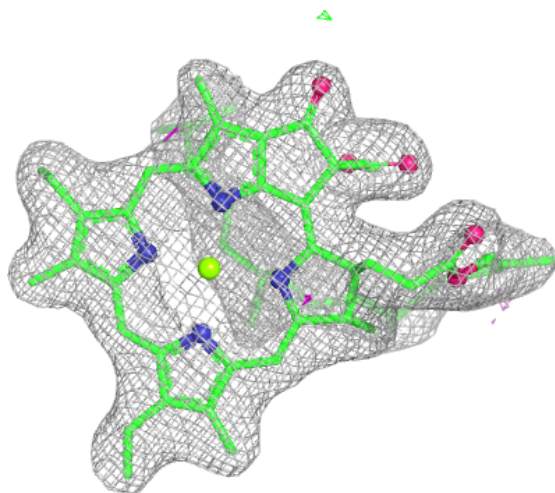
Electron density around CLA C 504:

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



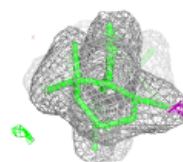
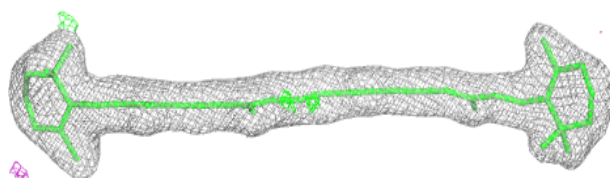
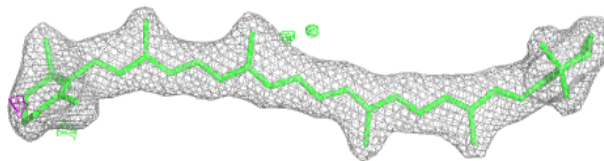
Electron density around CLA c 510:

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



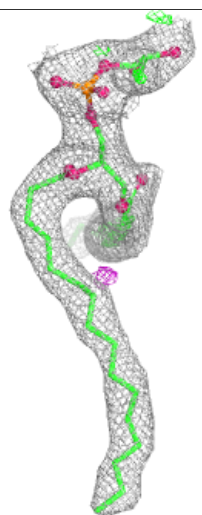
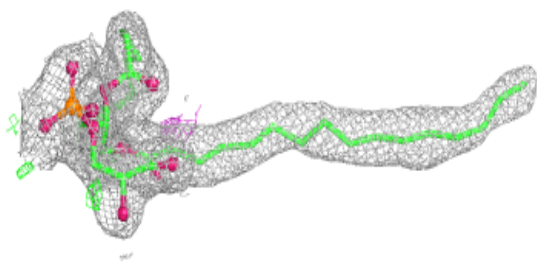
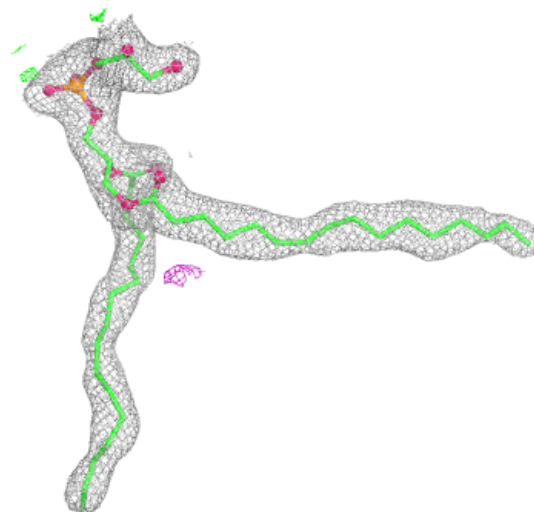
Electron density around BCR a 609:

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



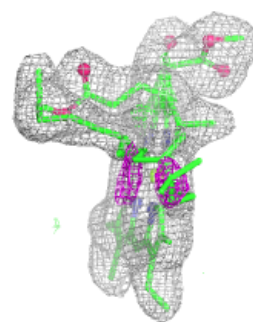
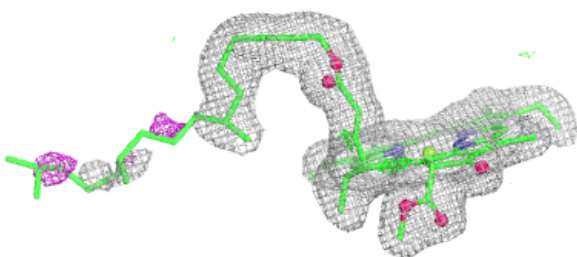
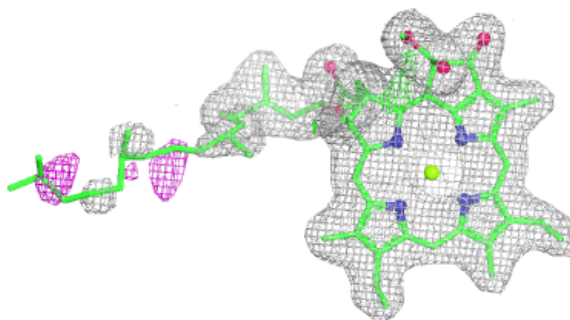
Electron density around LHG 1 101:

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

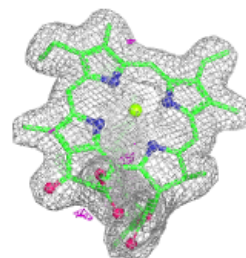
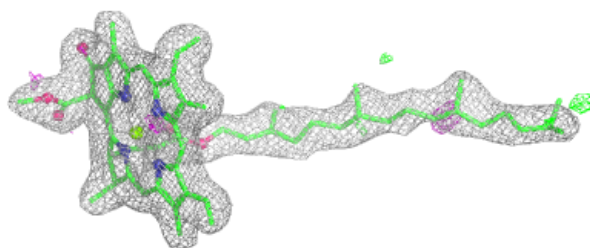
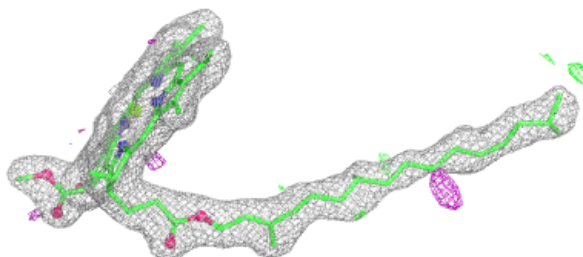


Electron density around CLA A 606:

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

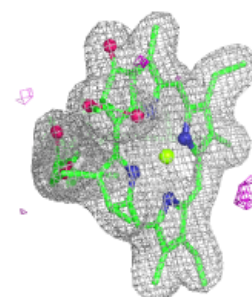
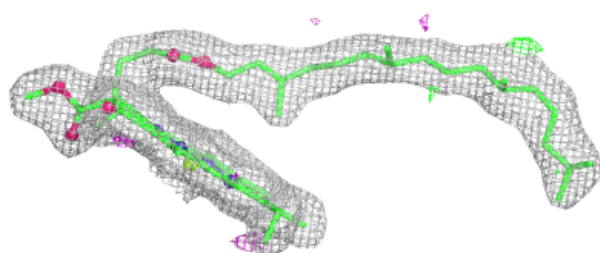
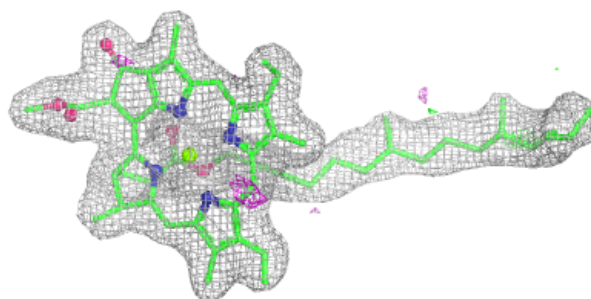
**Electron density around CLA B 607:**

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

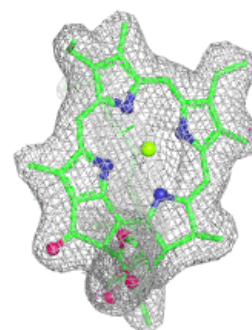
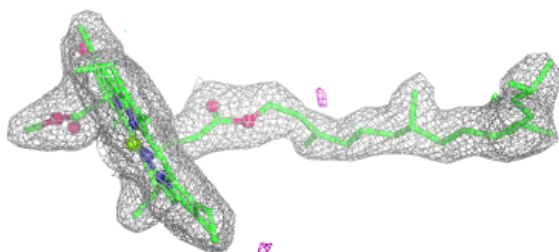
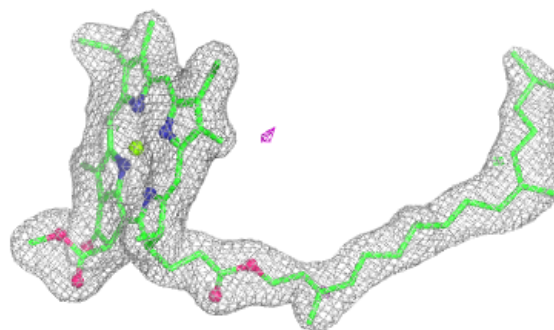


Electron density around CLA B 608:

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

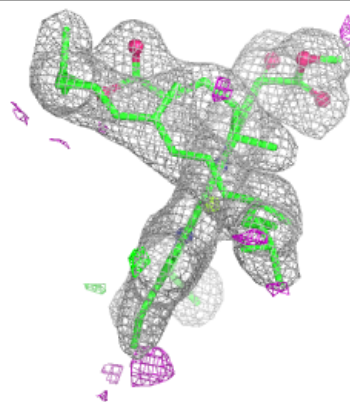
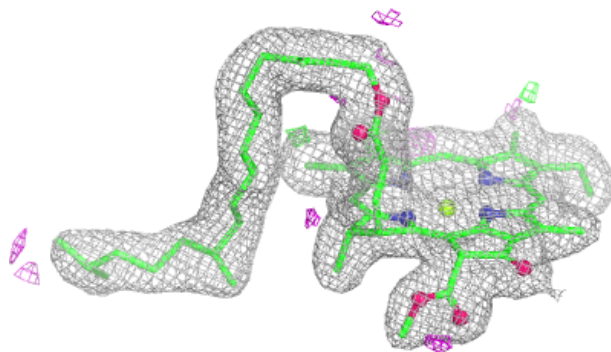
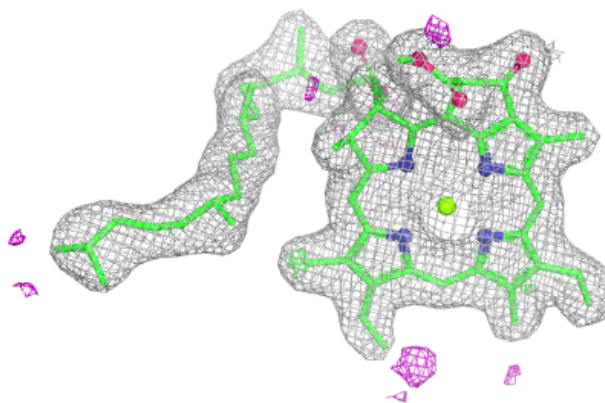
**Electron density around CLA B 609:**

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

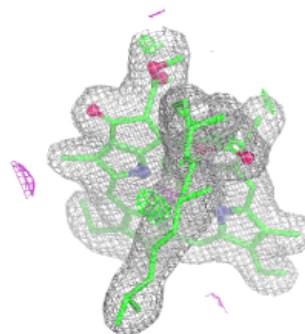
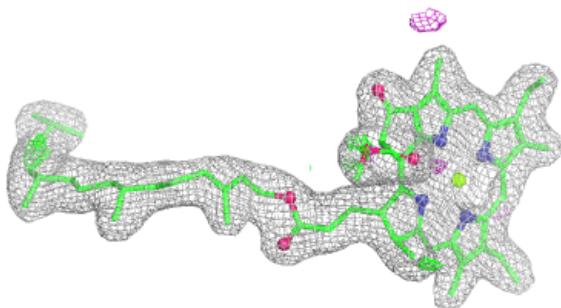
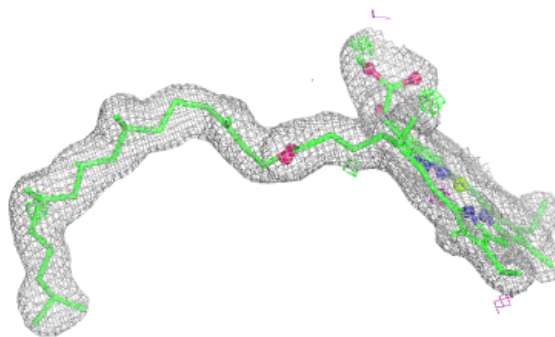


Electron density around CLA D 402:

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

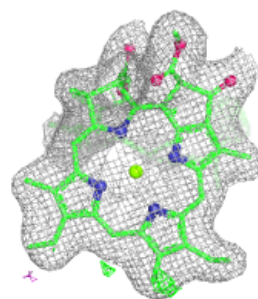
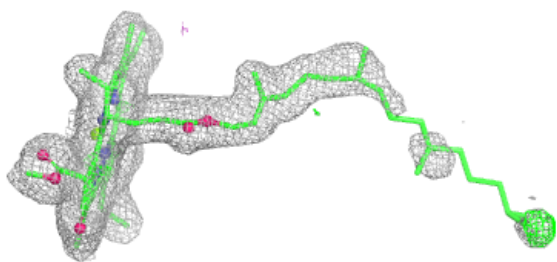
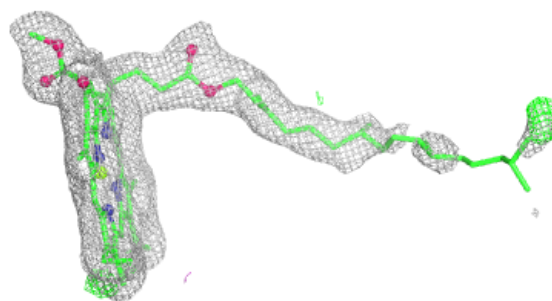
**Electron density around CLA D 403:**

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



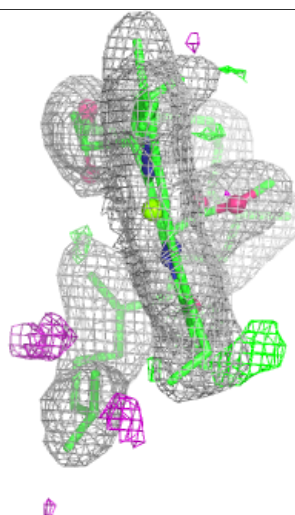
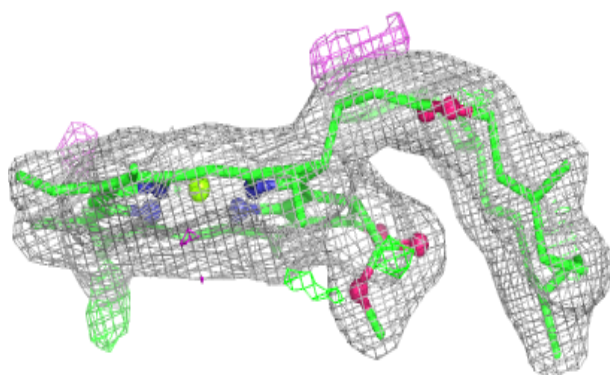
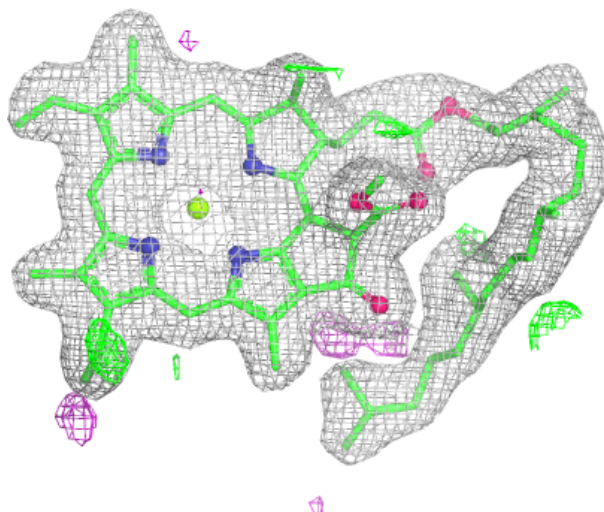
Electron density around CLA D 404:

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



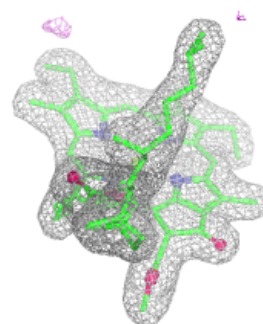
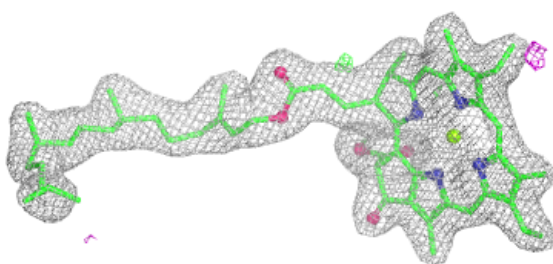
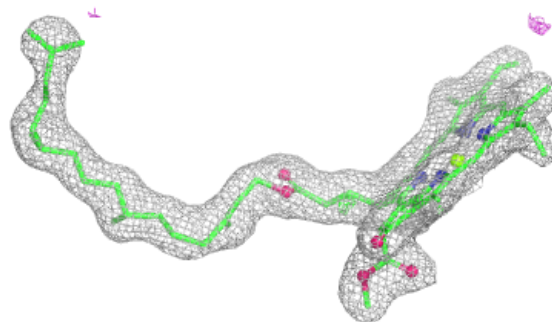
Electron density around CLA B 610:

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

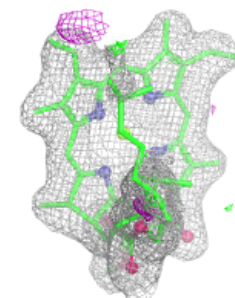
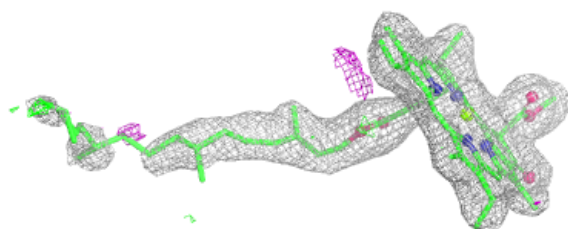
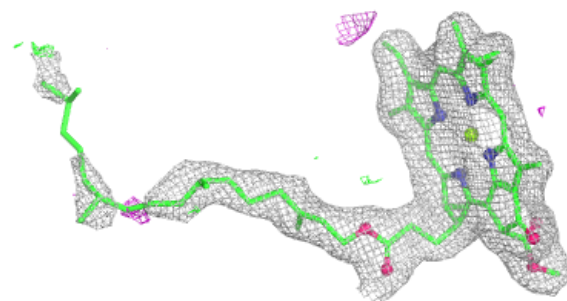


Electron density around CLA d 403:

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

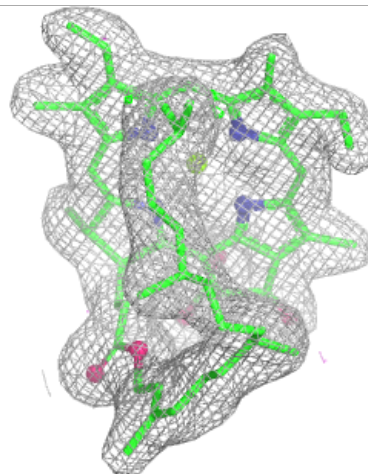
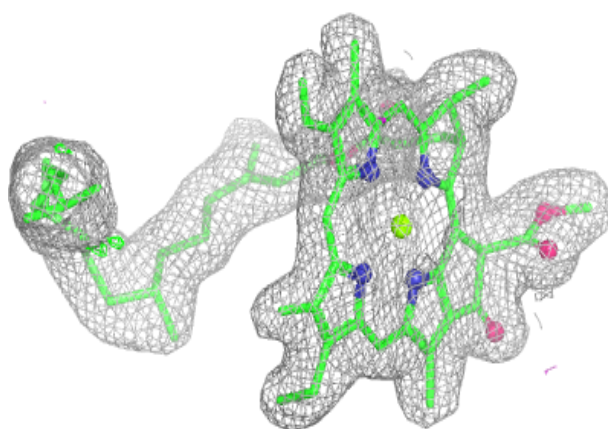
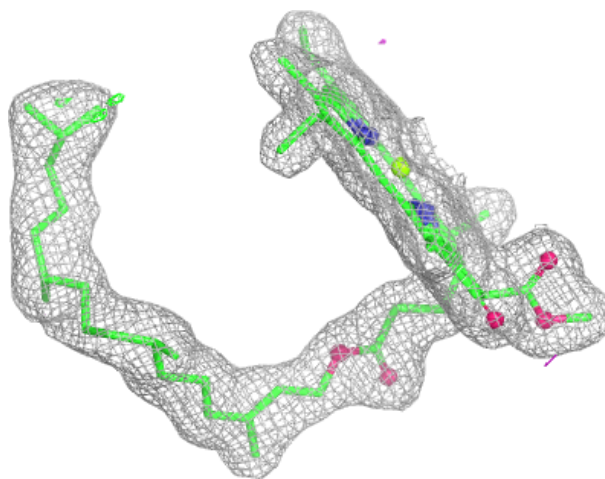
**Electron density around CLA d 404:**

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



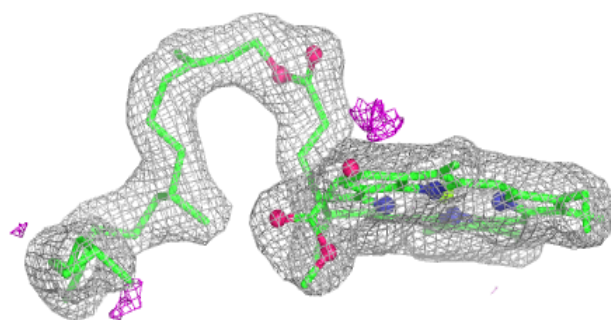
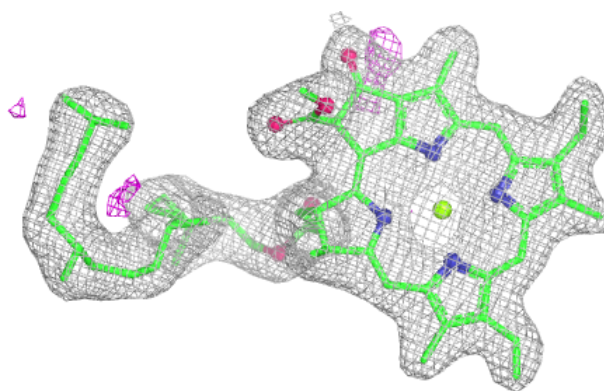
Electron density around CLA B 611:

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

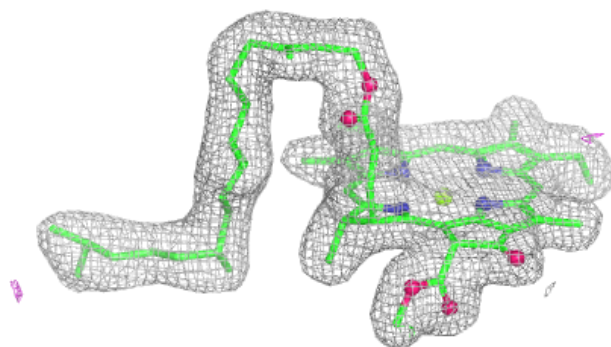
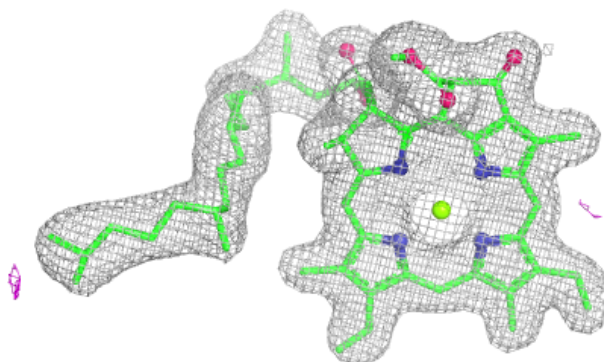


Electron density around CLA B 612:

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

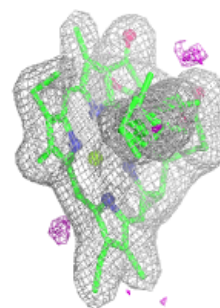
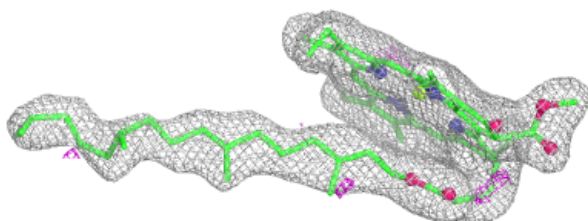
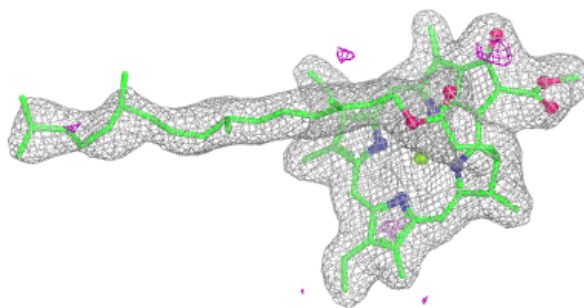
**Electron density around CLA a 611:**

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

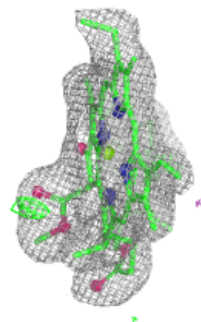
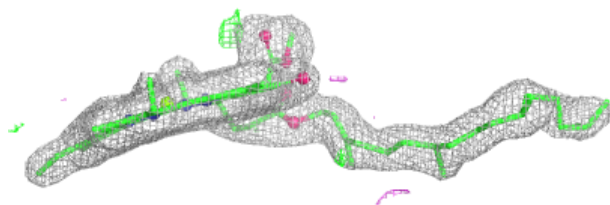
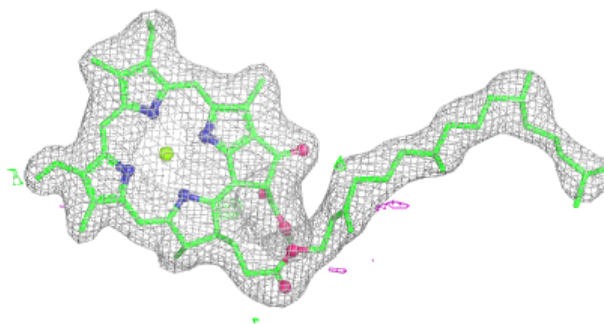


Electron density around CLA B 614:

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

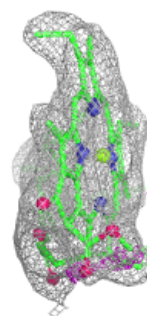
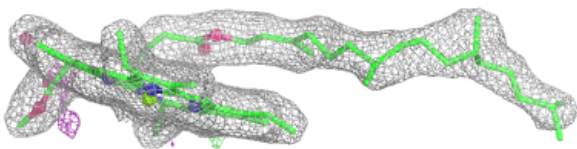
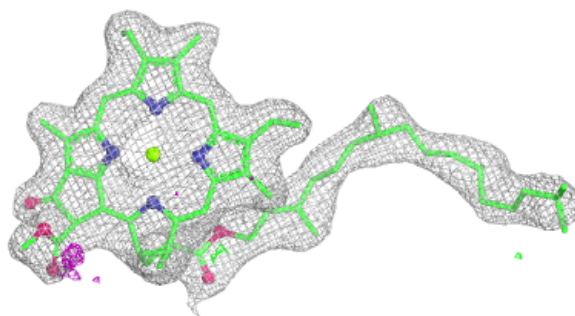
**Electron density around CLA b 602:**

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

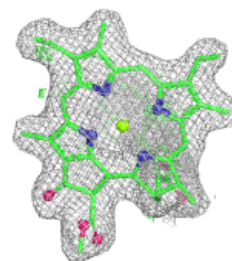
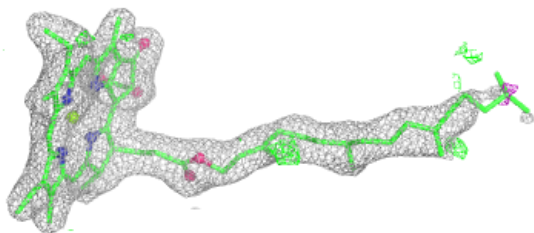
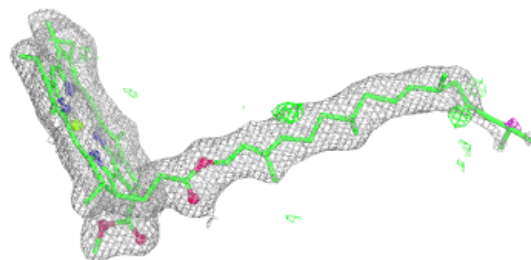


Electron density around CLA b 603:

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

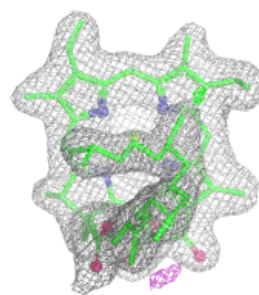
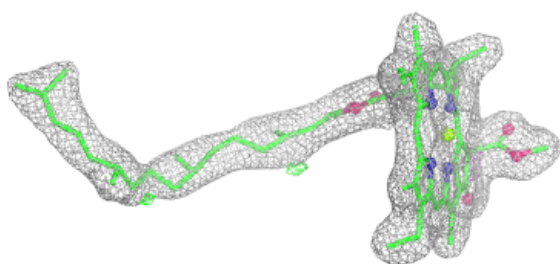
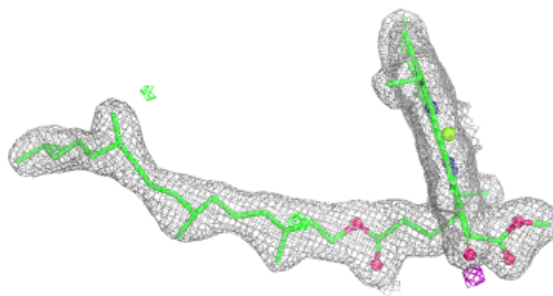
**Electron density around CLA b 604:**

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



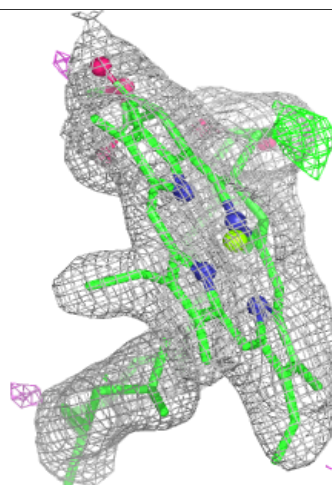
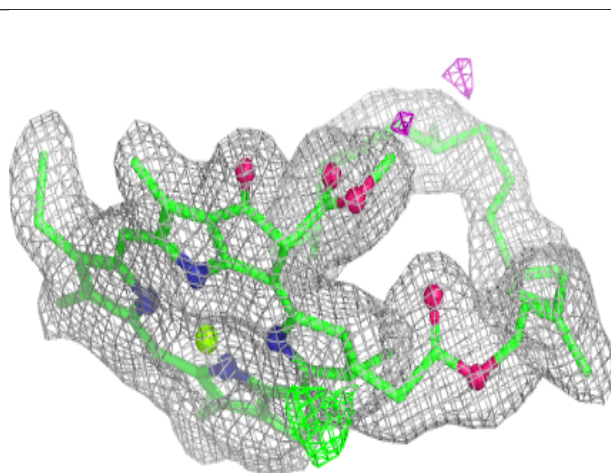
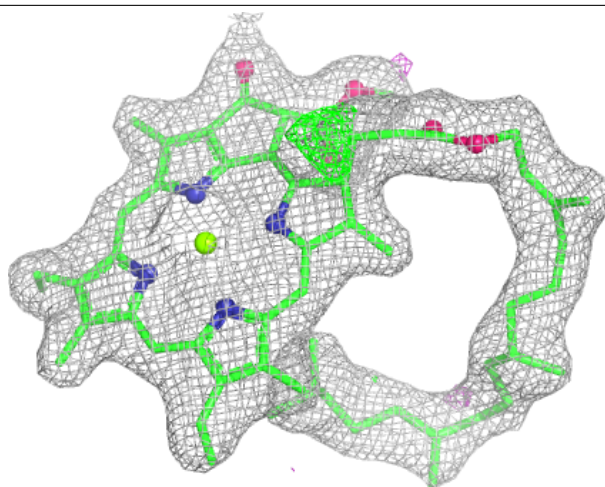
Electron density around CLA b 605:

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



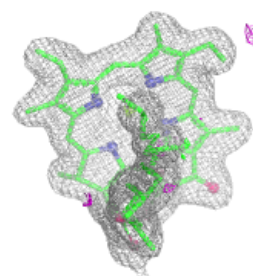
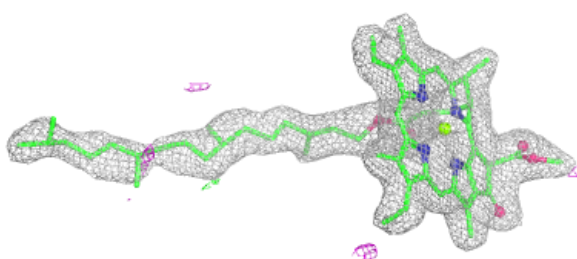
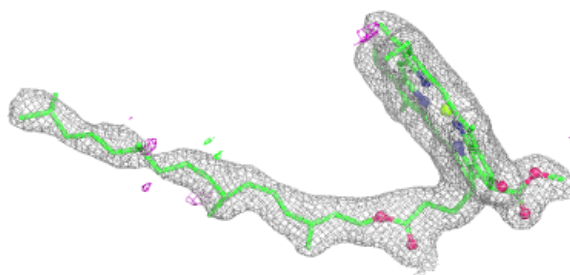
Electron density around CLA B 615:

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



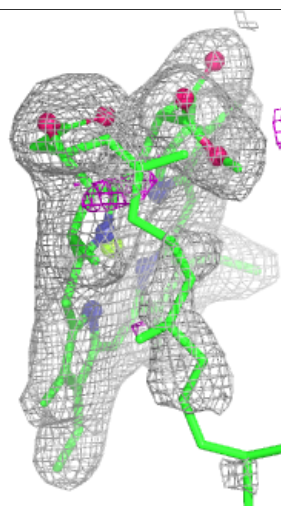
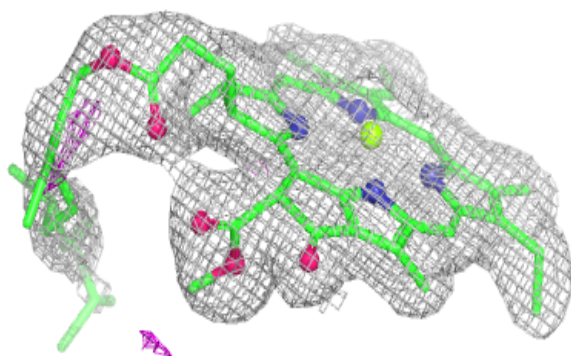
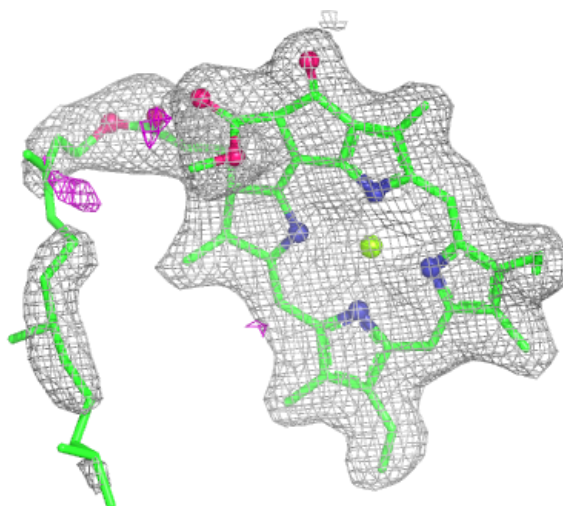
Electron density around CLA b 607:

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



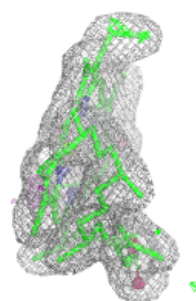
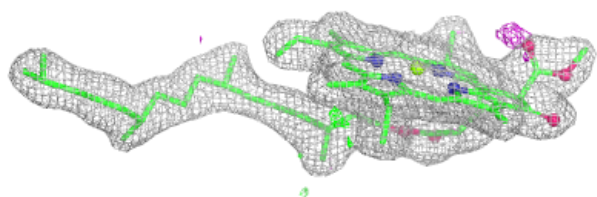
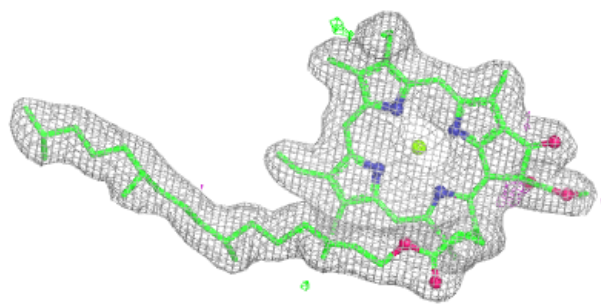
Electron density around CLA B 616:

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

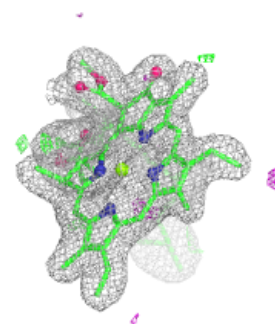
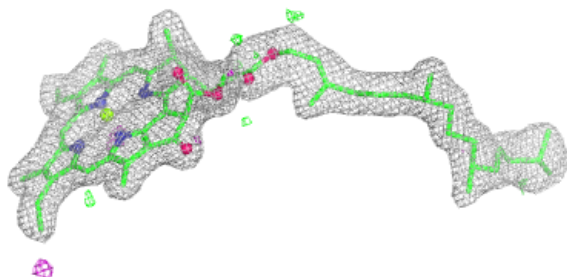
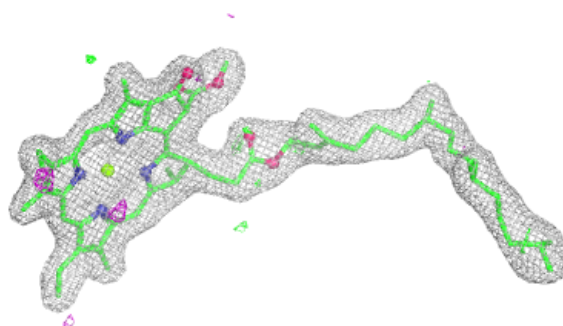


Electron density around CLA C 501:

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

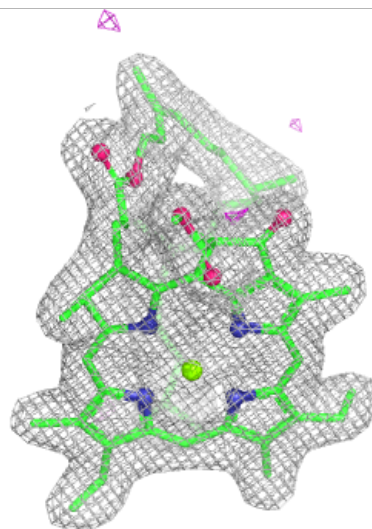
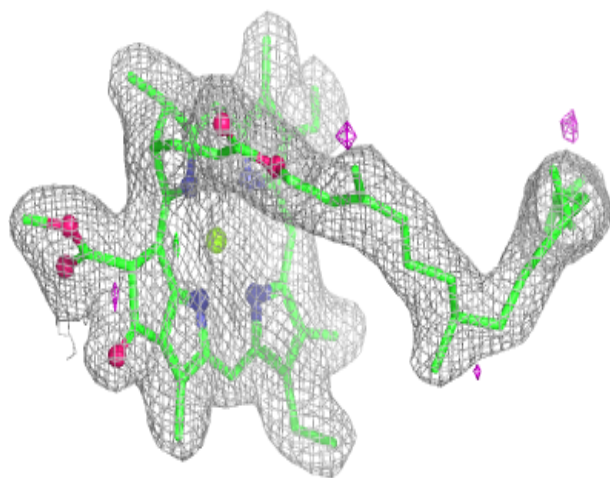
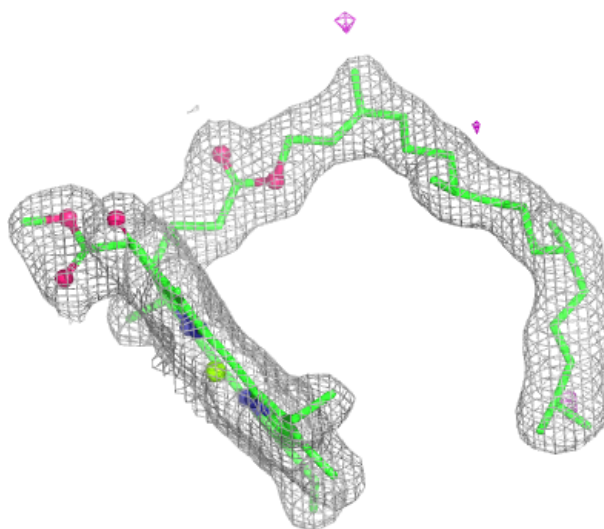
**Electron density around CLA A 605:**

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



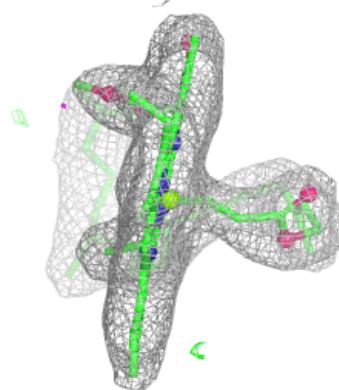
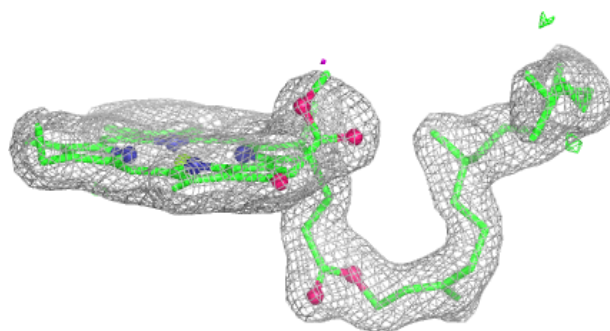
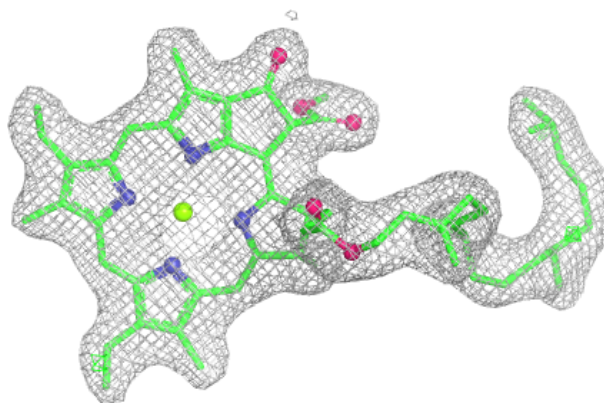
Electron density around CLA b 611:

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



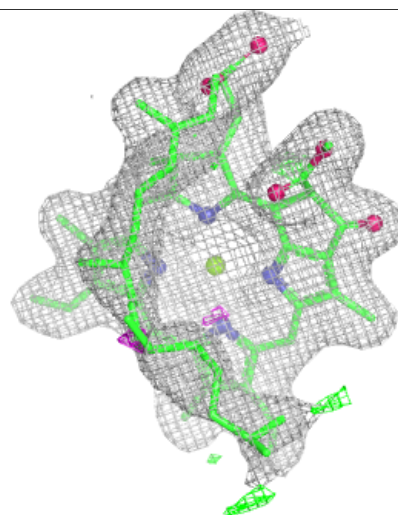
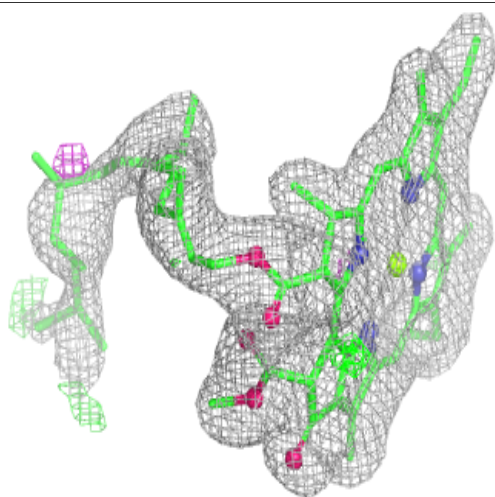
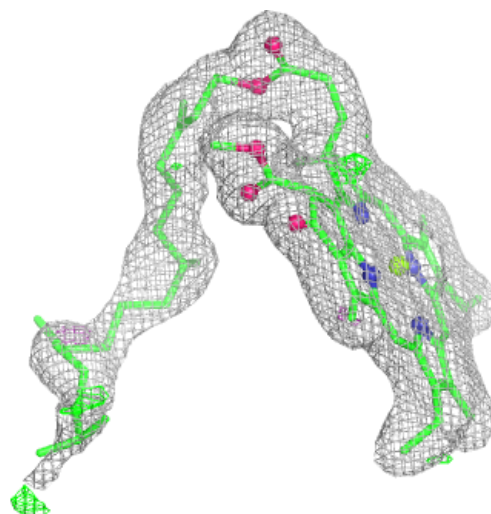
Electron density around CLA b 612:

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



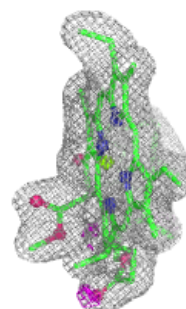
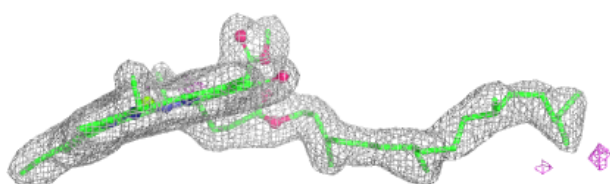
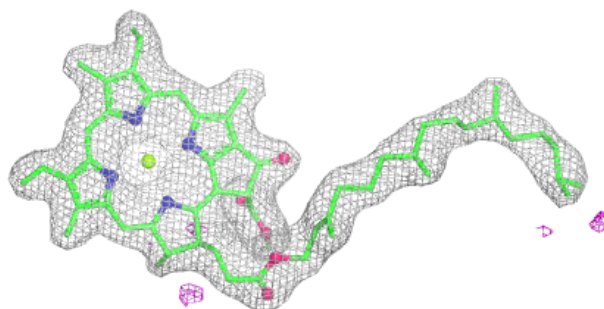
Electron density around CLA b 613:

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

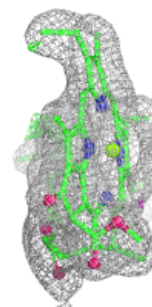
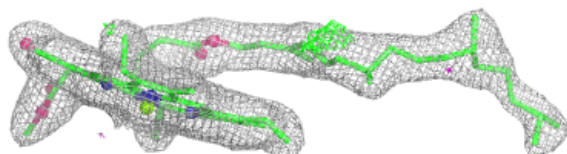
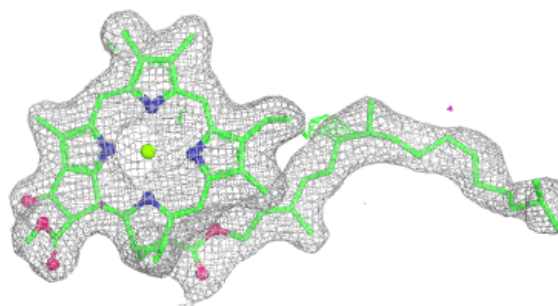


Electron density around CLA B 602:

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

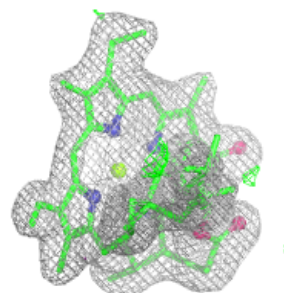
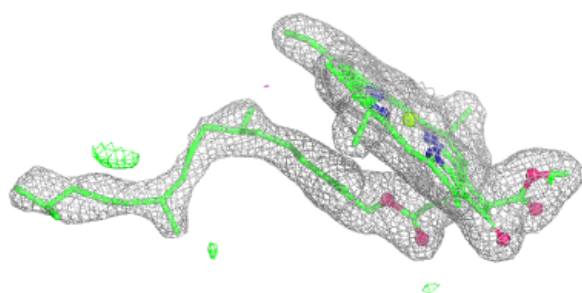
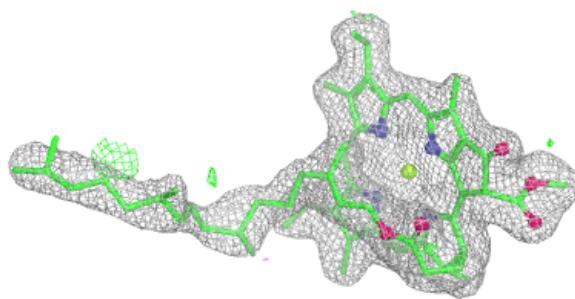
**Electron density around CLA B 603:**

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

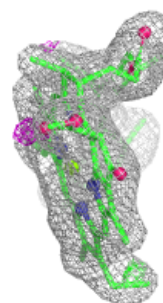
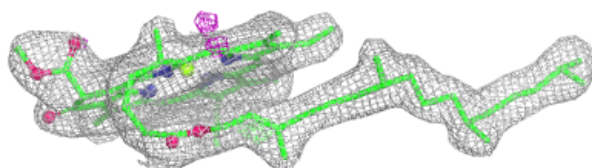
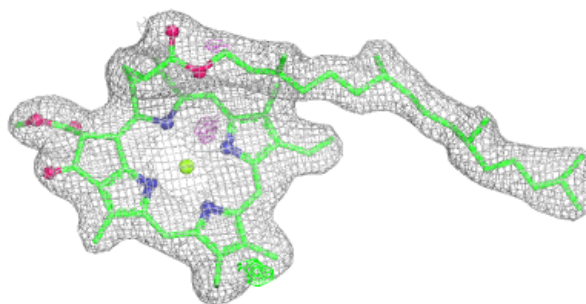


Electron density around CLA C 505:

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

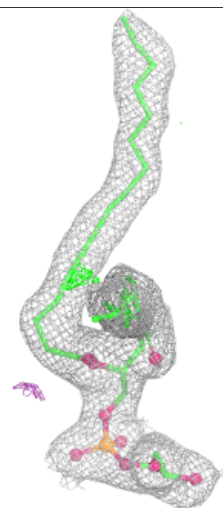
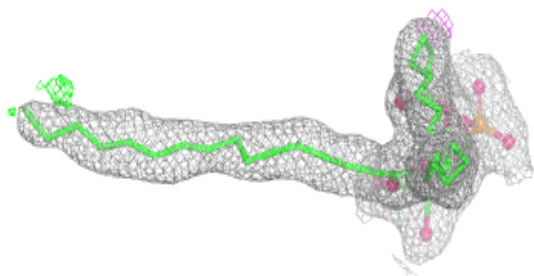
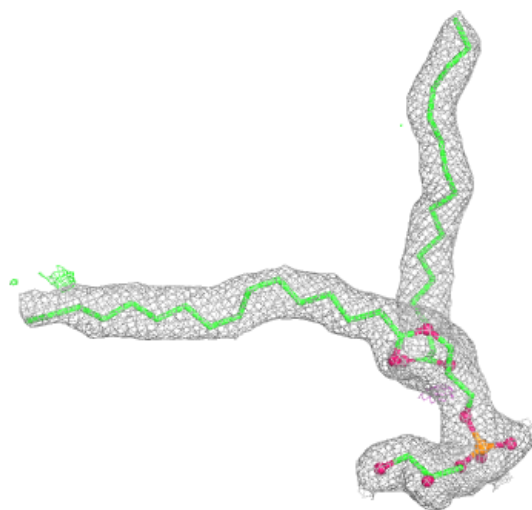
**Electron density around CLA c 501:**

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



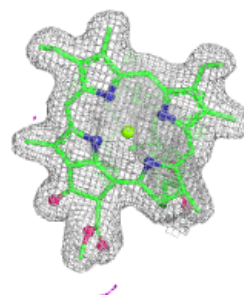
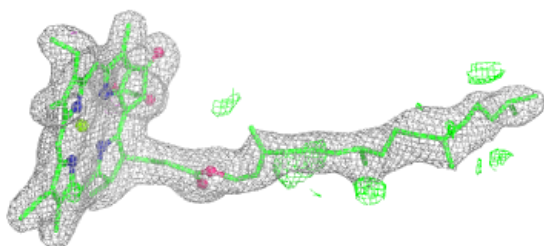
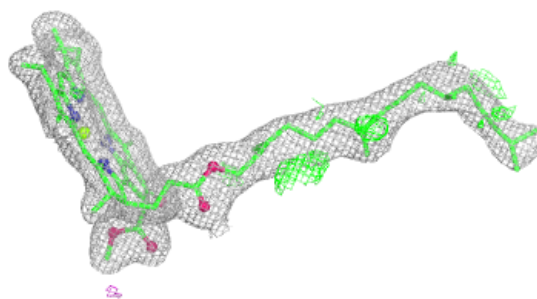
Electron density around LHG L 101:

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



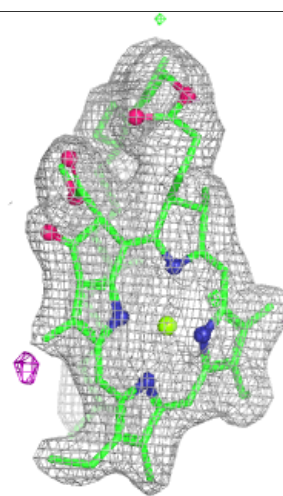
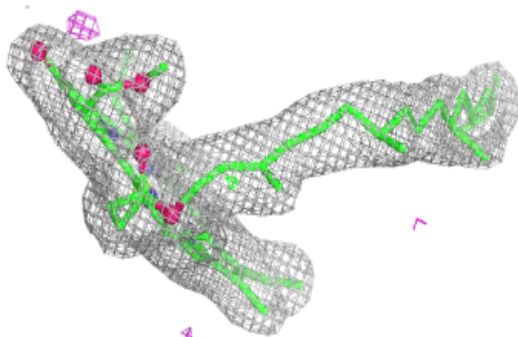
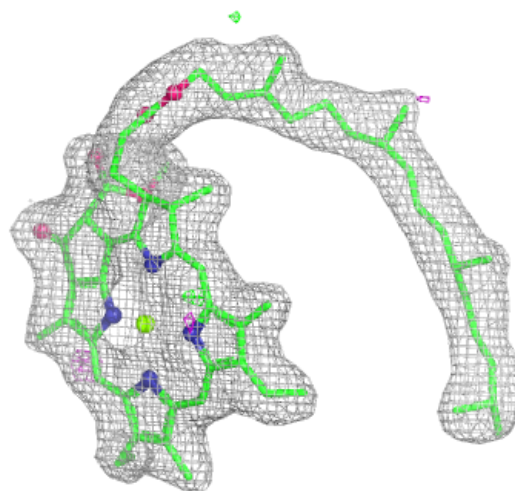
Electron density around CLA B 604:

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



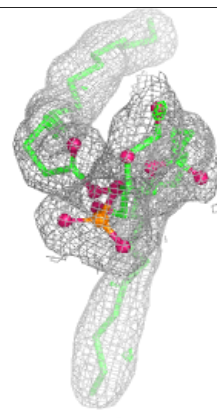
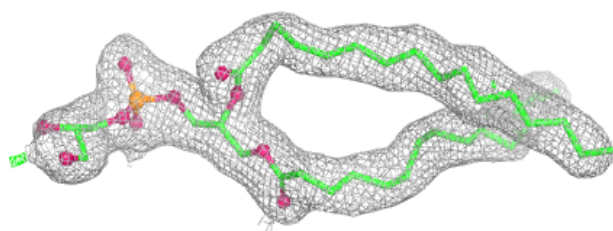
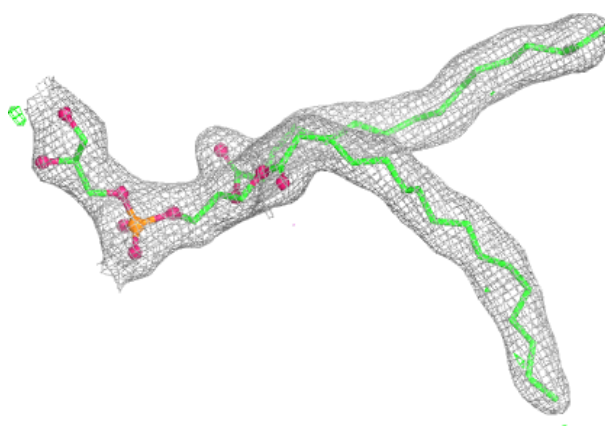
Electron density around CLA C 507:

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

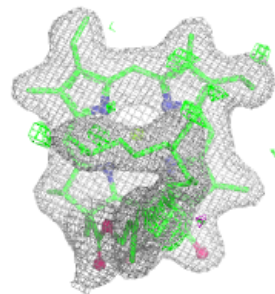
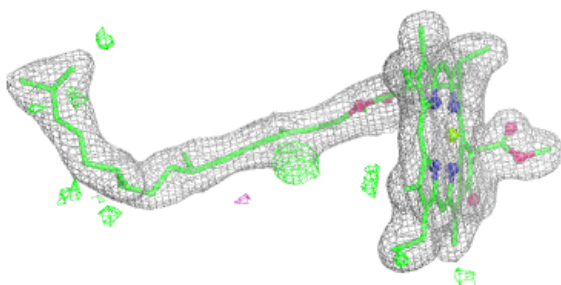
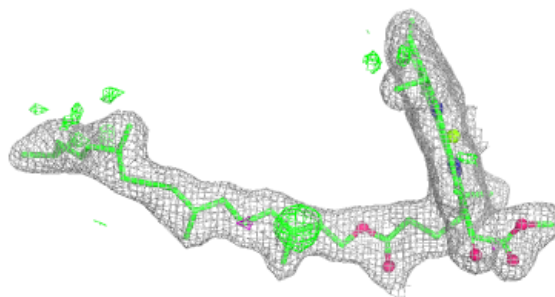


Electron density around LHG d 409:

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

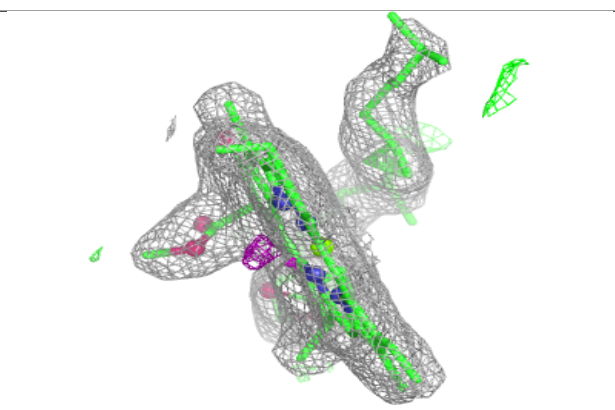
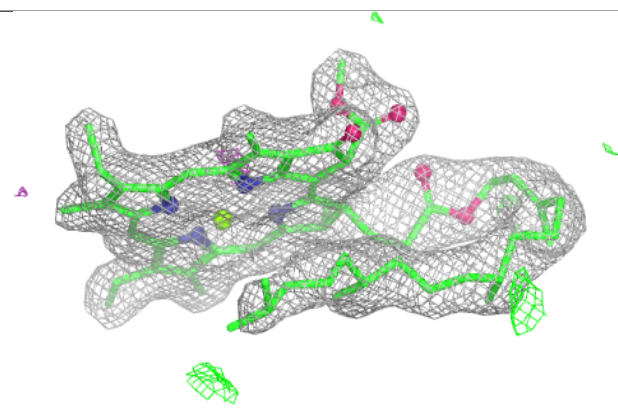
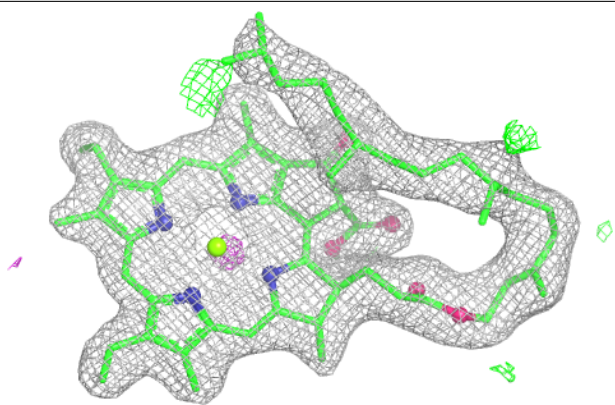
**Electron density around CLA B 605:**

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



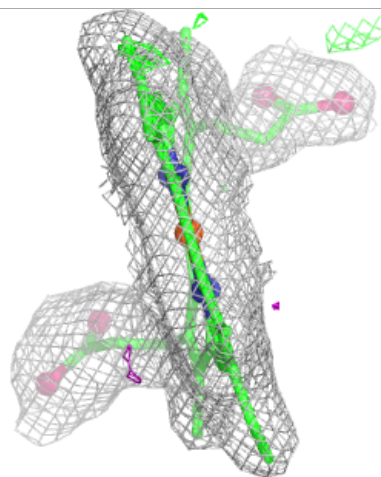
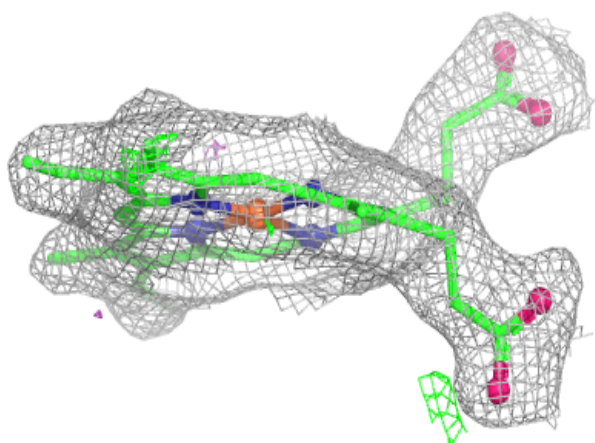
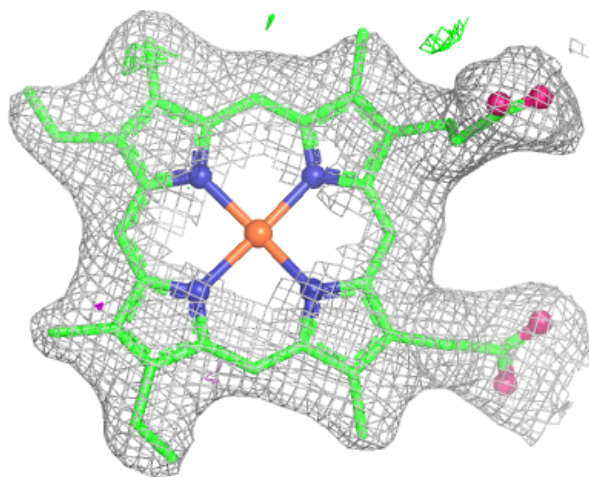
Electron density around CLA C 509:

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



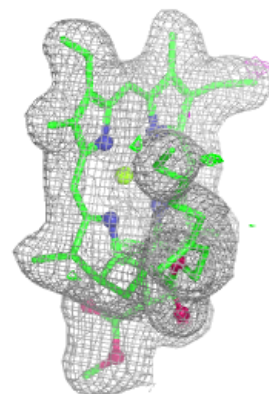
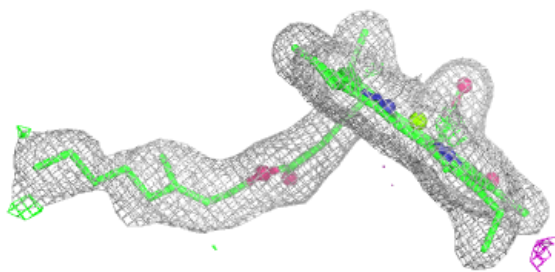
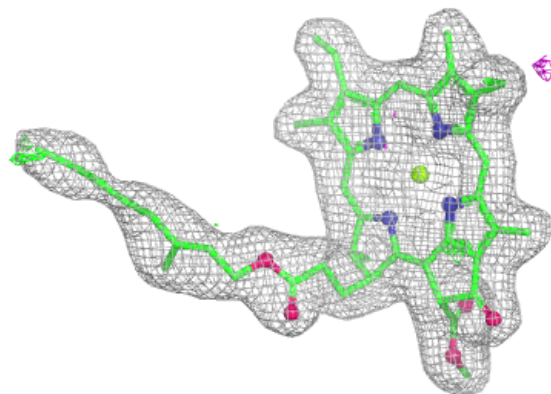
Electron density around HEM F 101:

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



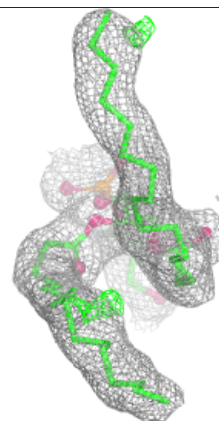
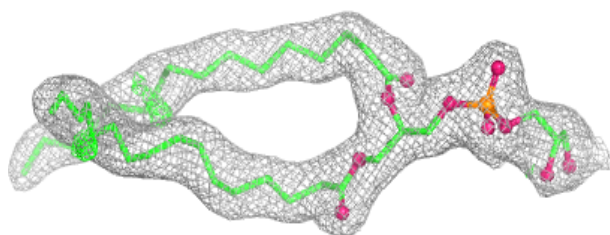
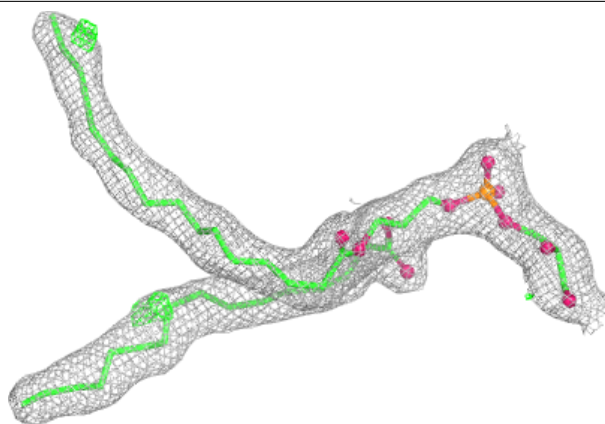
Electron density around CLA A 609:

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



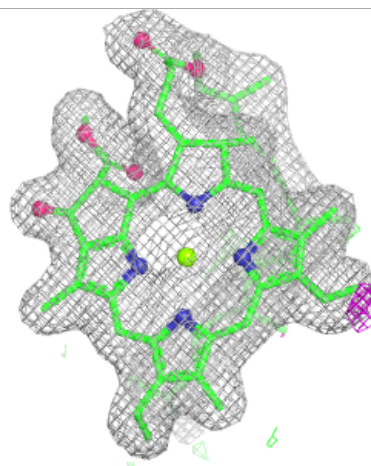
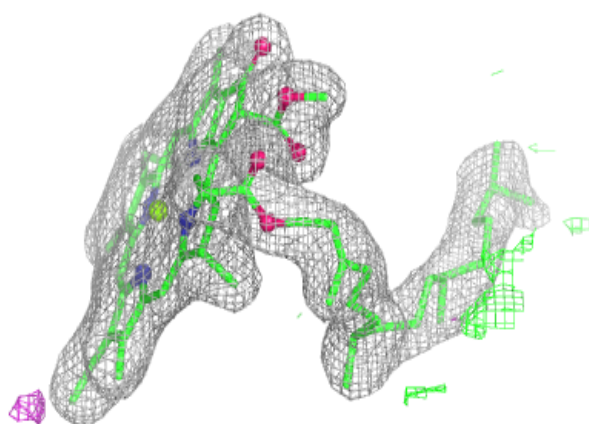
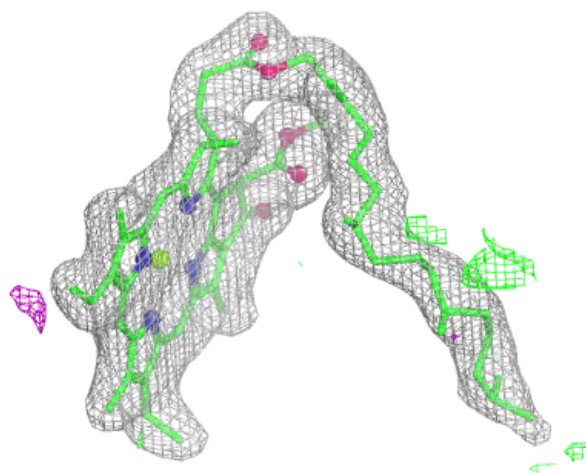
Electron density around LHG D 410:

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



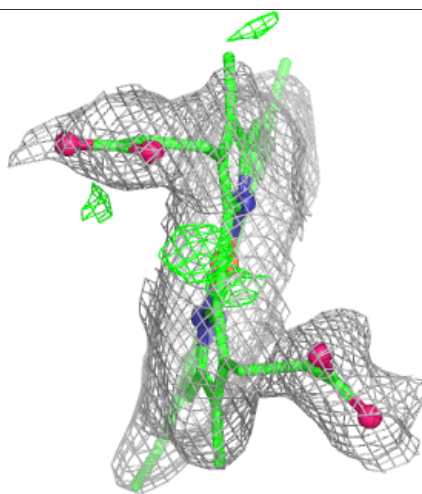
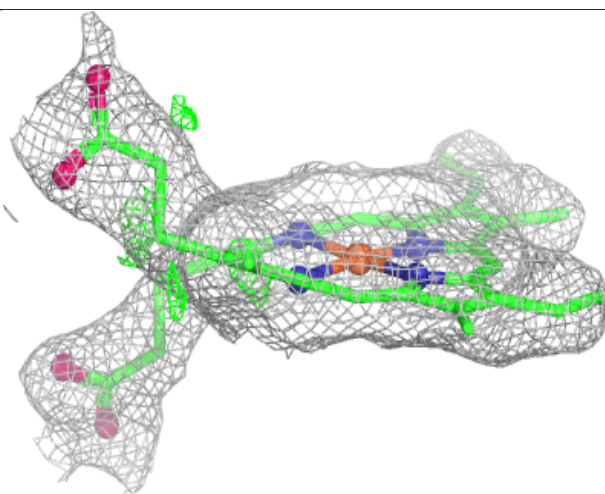
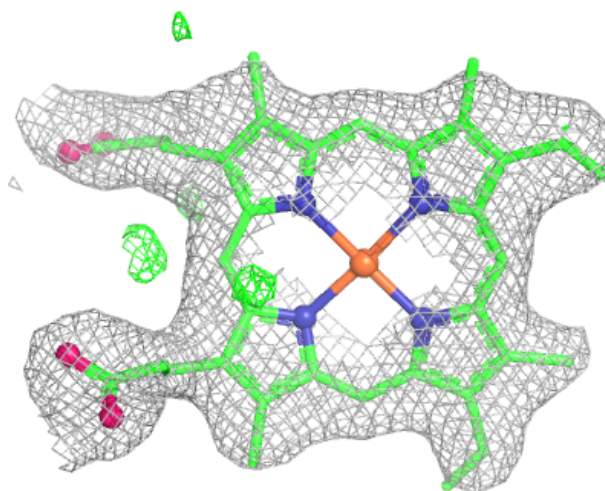
Electron density around CLA B 613:

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



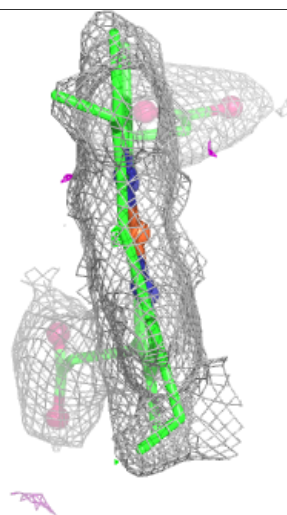
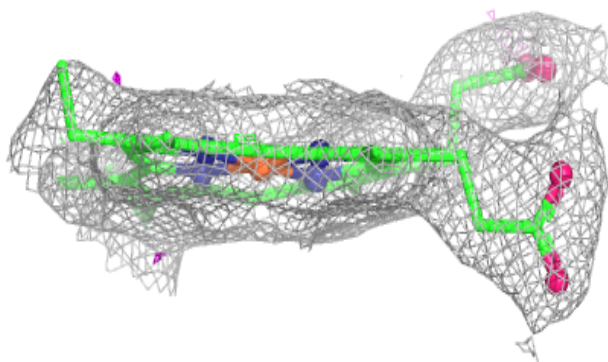
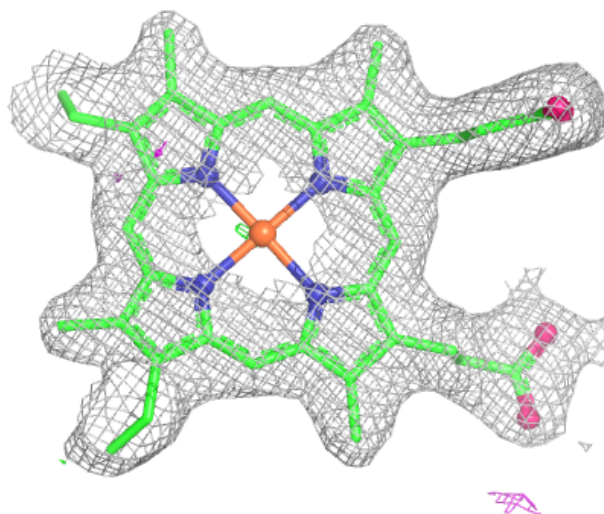
Electron density around HEM e 102:

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



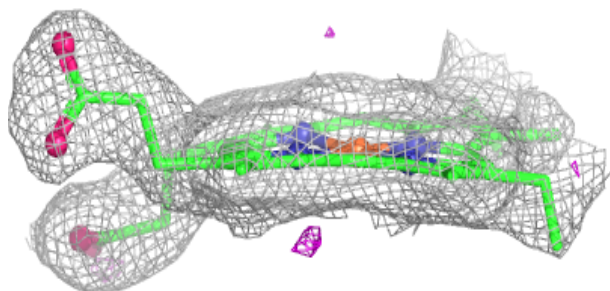
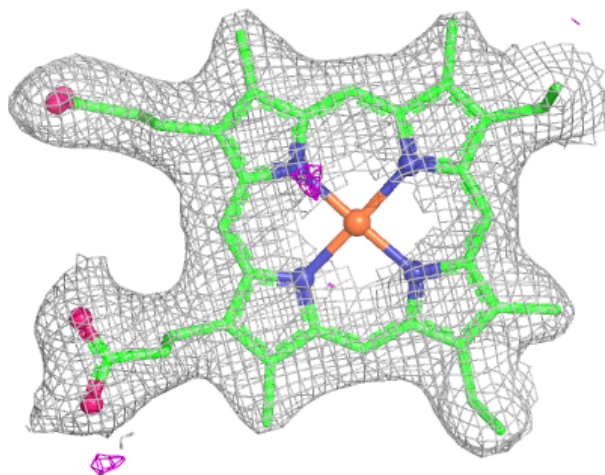
Electron density around HEC V 201:

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



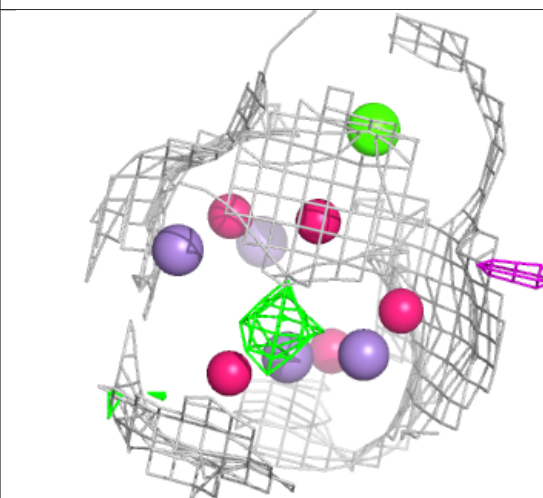
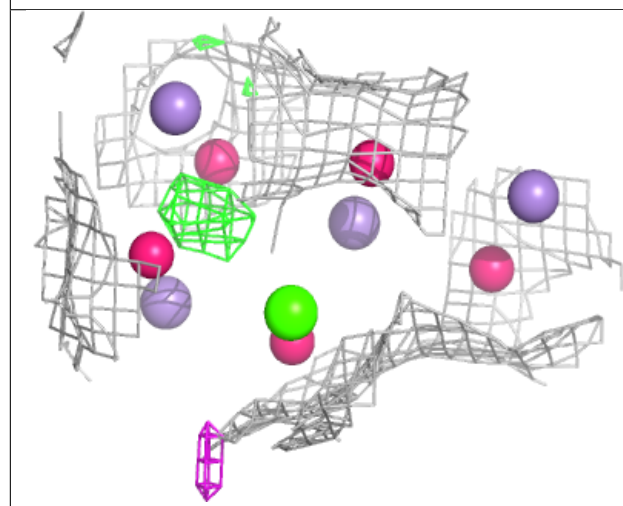
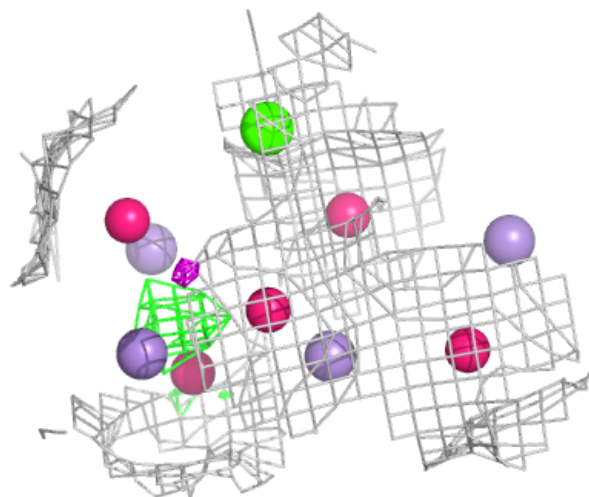
Electron density around HEC v 201:

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



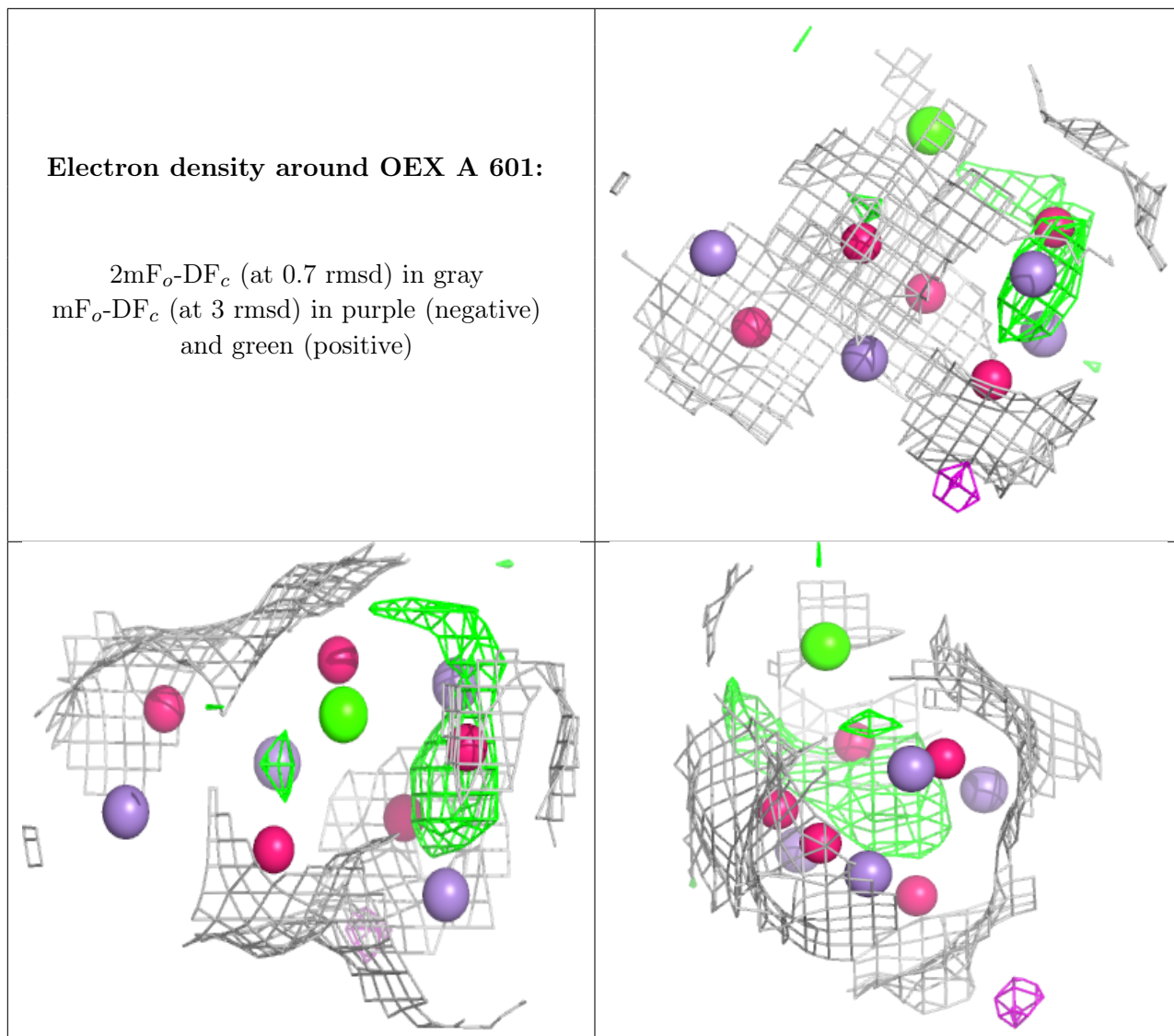
Electron density around OEX a 601:

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



Electron density around OEX A 601:

$2mF_o-DF_c$ (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.