



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 17, 2026 – 12:41 PM EDT

PDB ID : 36EZ / pdb_000036ez
Title : Crystal structure of thiocyanate bound bovine cytochrome c oxidase
Authors : Ishigami, I.; Rousseau, D.L.; Yeh, S.-R.
Deposited on : 2026-06-04
Resolution : 2.39 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.015 (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

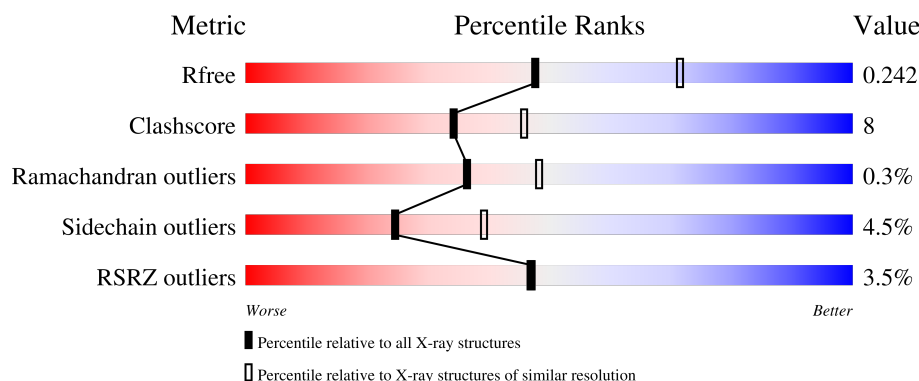
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.39 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	7164 (2.40-2.36)
Clashscore	190562	7722 (2.40-2.36)
Ramachandran outliers	187476	7626 (2.40-2.36)
Sidechain outliers	187428	7627 (2.40-2.36)
RSRZ outliers	180081	7170 (2.40-2.36)

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	514	0% 81% 17% •
1	N	514	81% 18% •
2	B	227	2% 78% 21% •
2	O	227	5% 77% 21% •
3	C	261	0% 85% 13% •

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Mol	Chain	Length	Quality of chain
3	P	261	
4	D	147	
4	Q	147	
5	E	109	
5	R	109	
6	F	98	
6	S	98	
7	G	85	
7	T	85	
8	H	85	
8	U	85	
9	I	73	
9	V	73	
10	J	59	
10	W	59	
11	K	56	
11	X	56	
12	L	47	
12	Y	47	
13	M	46	
13	Z	46	

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
20	SCN	C	312	-	-	X	-
20	SCN	N	614	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
23	DMU	C	301	X	-	-	-
23	DMU	C	314	X	-	-	-
23	DMU	G	103	X	-	-	-
23	DMU	M	101	X	-	-	-
23	DMU	P	303	X	-	-	-
23	DMU	Z	101	X	-	-	-

2 Entry composition

There are 30 unique types of molecules in this entry. The entry contains 31819 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 Cytochrome c oxidase subunit 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	514	Total	C	N	O	S	0	0	0
			4027	2691	623	678	35			
1	N	514	Total	C	N	O	S	0	0	0
			4027	2691	623	678	35			

- Molecule 2 is a protein called Cytochrome c oxidase subunit 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	227	Total	C	N	O	S	0	0	0
			1824	1185	281	340	18			
2	O	227	Total	C	N	O	S	0	0	0
			1824	1185	281	340	18			

- Molecule 3 is a protein called Cytochrome c oxidase subunit 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	259	Total	C	N	O	S	0	0	0
			2110	1412	336	350	12			
3	P	259	Total	C	N	O	S	0	0	0
			2110	1412	336	350	12			

- Molecule 4 is a protein called Cytochrome c oxidase subunit 4 isoform 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	144	Total	C	N	O	S	0	0	0
			1195	777	196	218	4			
4	Q	144	Total	C	N	O	S	0	0	0
			1195	777	196	218	4			

- Molecule 5 is a protein called Cytochrome c oxidase subunit 5A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	105	Total	C	N	O	S	0	0	0
			852	544	144	162	2			
5	R	105	Total	C	N	O	S	0	0	0
			852	544	144	162	2			

- Molecule 6 is a protein called Cytochrome c oxidase subunit 5B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	98	Total	C	N	O	S	0	0	0
			748	464	134	145	5			
6	S	98	Total	C	N	O	S	0	0	0
			748	464	134	145	5			

- Molecule 7 is a protein called Cytochrome c oxidase subunit 6A2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	84	Total	C	N	O	P	S	0	0
			675	431	129	113	1	1		
7	T	84	Total	C	N	O	P	S	0	0
			675	431	129	113	1	1		

- Molecule 8 is a protein called Cytochrome c oxidase subunit 6B1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	79	Total	C	N	O	S	0	0	0
			662	417	121	119	5			
8	U	79	Total	C	N	O	S	0	0	0
			662	417	121	119	5			

- Molecule 9 is a protein called Cytochrome c oxidase subunit 6C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	72	Total	C	N	O	S	0	0	0
			592	385	106	97	4			
9	V	72	Total	C	N	O	S	0	0	0
			592	385	106	97	4			

- Molecule 10 is a protein called Cytochrome c oxidase subunit 7A1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	58	Total	C	N	O	S	0	0	0
			460	297	78	82	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	W	58	Total	C	N	O	S	0	0	0
			460	297	78	82	3			

- Molecule 11 is a protein called Cytochrome c oxidase subunit 7B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	49	Total	C	N	O	S	0	0	0
			384	250	65	67	2			
11	X	49	Total	C	N	O	S	0	0	0
			384	250	65	67	2			

- Molecule 12 is a protein called Cytochrome c oxidase subunit 7C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	46	Total	C	N	O	S	0	0	0
			380	254	64	60	2			
12	Y	46	Total	C	N	O	S	0	0	0
			380	254	64	60	2			

- Molecule 13 is a protein called Cytochrome c oxidase subunit 8B.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	M	43	Total	C	N	O	0	0	0
			335	223	53	59			
13	Z	43	Total	C	N	O	0	0	0
			335	223	53	59			

- Molecule 14 is COPPER (II) ION (CCD ID: CU) (formula: Cu) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
14	A	1	Total	Cu	0	0
			1	1		
14	N	1	Total	Cu	0	0
			1	1		

- Molecule 15 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

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

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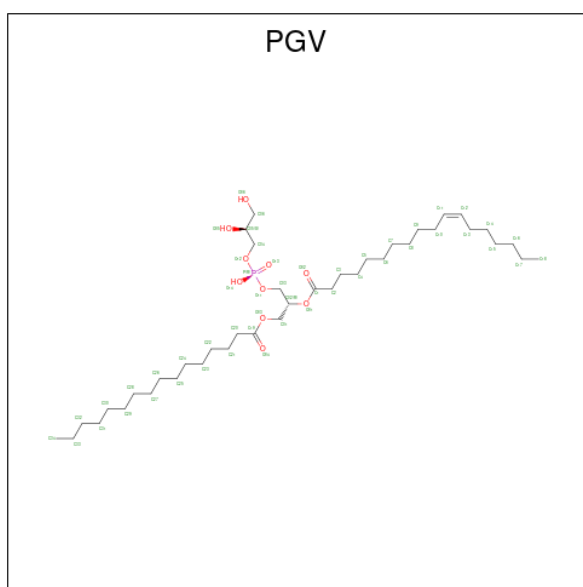
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
15	N	1	Total	Mg	0	0
			1	1		

- Molecule 16 is SODIUM ION (CCD ID: NA) (formula: Na) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
16	A	1	Total	Na	0	0
			1	1		
16	N	1	Total	Na	0	0
			1	1		

- Molecule 17 is (1R)-2-{{[(2S)-2,3-DIHYDROXYPROPYL]OXY}(HYDROXY)PHOSPHORYL]OXY}-1-[(PALMITOYLOXY)METHYL]ETHYL (11E)-OCTADEC-11-ENOATE (CCD ID: PGV) (formula: C₄₀H₇₇O₁₀P) (labeled as "Ligand of Interest" by depositor).



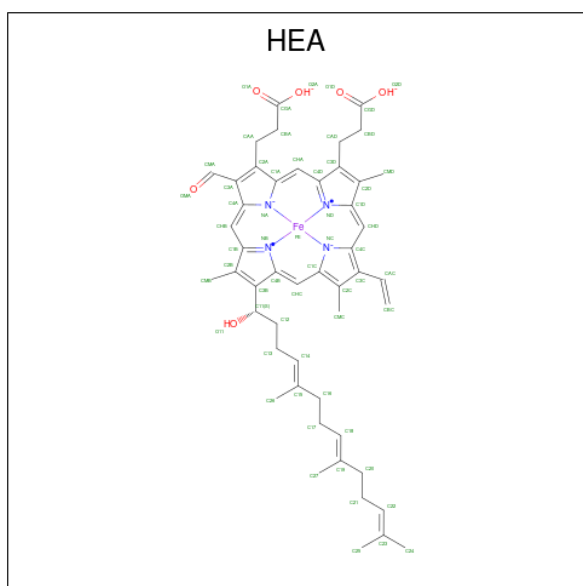
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
17	A	1	Total	C	O	P	0	0
			51	40	10	1		
17	A	1	Total	C	O	P	0	0
			51	40	10	1		
17	C	1	Total	C	O	P	0	0
			51	40	10	1		
17	C	1	Total	C	O	P	0	0
			51	40	10	1		
17	N	1	Total	C	O	P	0	0
			51	40	10	1		

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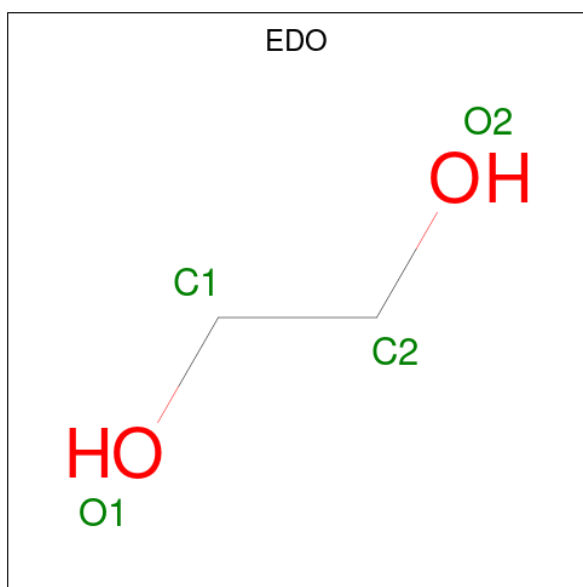
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
17	N	1	Total	C	O	P	0	0
			51	40	10	1		
17	P	1	Total	C	O	P	0	0
			51	40	10	1		
17	P	1	Total	C	O	P	0	0
			51	40	10	1		

- Molecule 18 is HEME-A (CCD ID: HEA) (formula: $C_{49}H_{56}FeN_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
18	A	1	Total	C	Fe	N	O	0
			60	49	1	4	6	
18	A	1	Total	C	Fe	N	O	0
			60	49	1	4	6	
18	N	1	Total	C	Fe	N	O	0
			60	49	1	4	6	
18	N	1	Total	C	Fe	N	O	0
			60	49	1	4	6	

- Molecule 19 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
19	A	1	Total	C	O	0	0
			4	2	2		
19	A	1	Total	C	O	0	0
			4	2	2		
19	A	1	Total	C	O	0	0
			4	2	2		
19	A	1	Total	C	O	0	0
			4	2	2		
19	A	1	Total	C	O	0	0
			4	2	2		
19	A	1	Total	C	O	0	0
			4	2	2		
19	A	1	Total	C	O	0	0
			4	2	2		
19	B	1	Total	C	O	0	0
			4	2	2		
19	B	1	Total	C	O	0	0
			4	2	2		
19	B	1	Total	C	O	0	0
			4	2	2		
19	B	1	Total	C	O	0	0
			4	2	2		

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
19	F	1	Total 4	C 2	O 2	0	0
19	F	1	Total 4	C 2	O 2	0	0
19	F	1	Total 4	C 2	O 2	0	0
19	G	1	Total 4	C 2	O 2	0	0
19	G	1	Total 4	C 2	O 2	0	0
19	G	1	Total 4	C 2	O 2	0	0
19	G	1	Total 4	C 2	O 2	0	0
19	G	1	Total 4	C 2	O 2	0	0
19	I	1	Total 4	C 2	O 2	0	0
19	I	1	Total 4	C 2	O 2	0	0
19	J	1	Total 4	C 2	O 2	0	0
19	J	1	Total 4	C 2	O 2	0	0
19	J	1	Total 4	C 2	O 2	0	0
19	K	1	Total 4	C 2	O 2	0	0
19	K	1	Total 4	C 2	O 2	0	0
19	L	1	Total 4	C 2	O 2	0	0
19	L	1	Total 4	C 2	O 2	0	0
19	M	1	Total 4	C 2	O 2	0	0
19	M	1	Total 4	C 2	O 2	0	0
19	N	1	Total 4	C 2	O 2	0	0
19	N	1	Total 4	C 2	O 2	0	0

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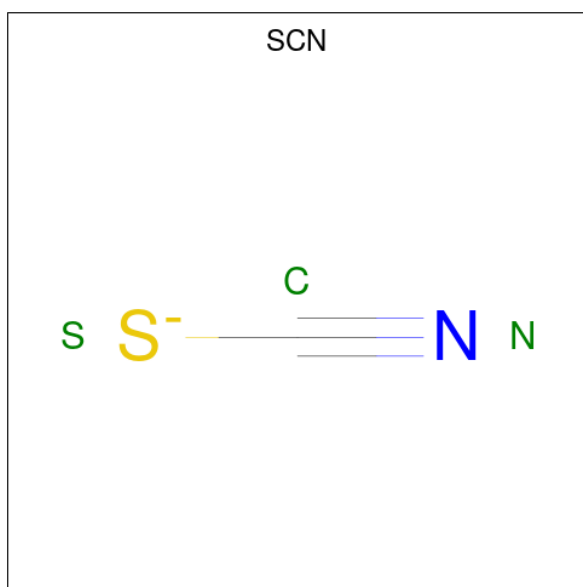
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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19	N	1	Total 4	C 2	O 2	0	0
19	N	1	Total 4	C 2	O 2	0	0
19	N	1	Total 4	C 2	O 2	0	0
19	N	1	Total 4	C 2	O 2	0	0
19	N	1	Total 4	C 2	O 2	0	0
19	N	1	Total 4	C 2	O 2	0	0
19	O	1	Total 4	C 2	O 2	0	0
19	O	1	Total 4	C 2	O 2	0	0
19	P	1	Total 4	C 2	O 2	0	0
19	P	1	Total 4	C 2	O 2	0	0
19	P	1	Total 4	C 2	O 2	0	0
19	P	1	Total 4	C 2	O 2	0	0
19	Q	1	Total 4	C 2	O 2	0	0
19	Q	1	Total 4	C 2	O 2	0	0
19	Q	1	Total 4	C 2	O 2	0	0
19	R	1	Total 4	C 2	O 2	0	0
19	R	1	Total 4	C 2	O 2	0	0
19	S	1	Total 4	C 2	O 2	0	0
19	S	1	Total 4	C 2	O 2	0	0
19	S	1	Total 4	C 2	O 2	0	0

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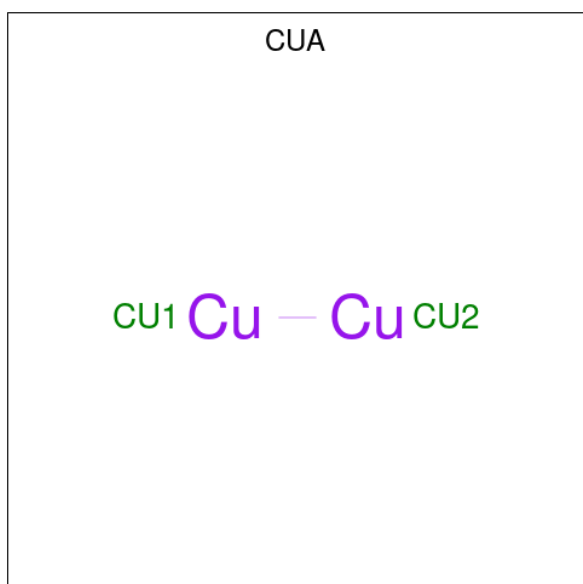
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
19	S	1	Total 4	C 2	O 2	0	0
19	S	1	Total 4	C 2	O 2	0	0
19	S	1	Total 4	C 2	O 2	0	0
19	S	1	Total 4	C 2	O 2	0	0
19	S	1	Total 4	C 2	O 2	0	0
19	T	1	Total 4	C 2	O 2	0	0
19	T	1	Total 4	C 2	O 2	0	0
19	V	1	Total 4	C 2	O 2	0	0
19	V	1	Total 4	C 2	O 2	0	0
19	V	1	Total 4	C 2	O 2	0	0
19	W	1	Total 4	C 2	O 2	0	0
19	W	1	Total 4	C 2	O 2	0	0
19	W	1	Total 4	C 2	O 2	0	0
19	U	1	Total 4	C 2	O 2	0	0

- Molecule 20 is THIOCYANATE ION (CCD ID: SCN) (formula: CNS) (labeled as "Ligand of Interest" by depositor).



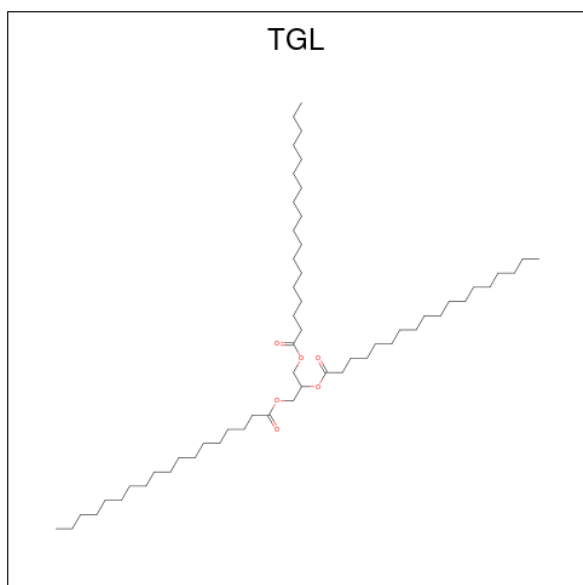
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
20	A	1	Total	C	N	S	0	0
			3	1	1	1		
20	C	1	Total	C	N	S	0	0
			3	1	1	1		
20	N	1	Total	C	N	S	0	0
			3	1	1	1		
20	P	1	Total	C	N	S	0	0
			3	1	1	1		

- Molecule 21 is DINUCLEAR COPPER ION (CCD ID: CUA) (formula: Cu₂) (labeled as "Ligand of Interest" by depositor).



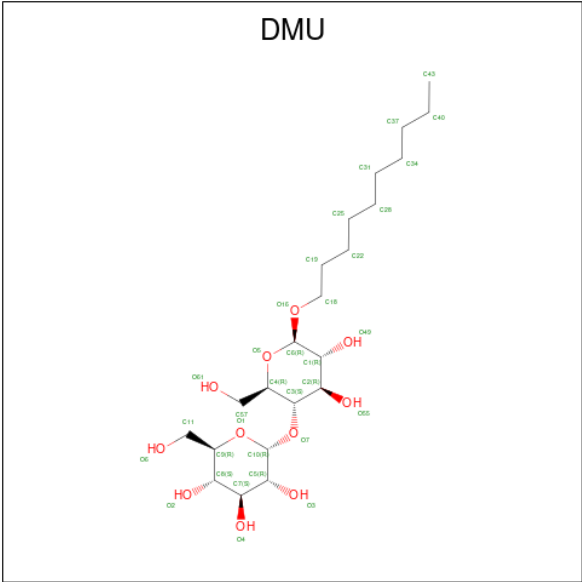
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
21	B	1	Total	Cu	0	0
			2	2		
21	O	1	Total	Cu	0	0
			2	2		

- Molecule 22 is TRISTEAROYLGLYCEROL (CCD ID: TGL) (formula: $C_{57}H_{110}O_6$) (labeled as "Ligand of Interest" by depositor).



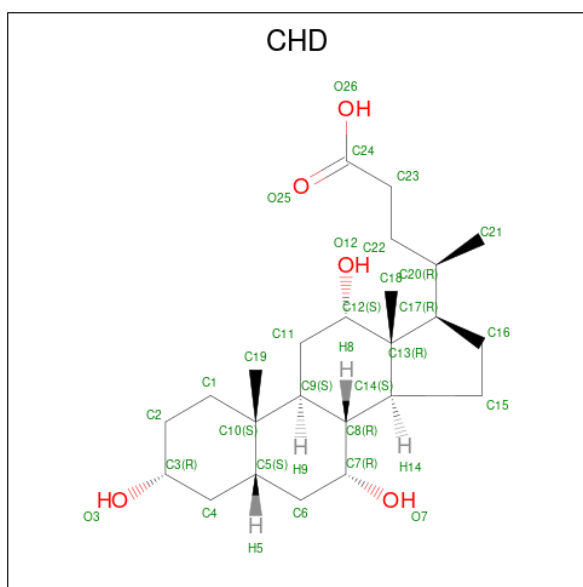
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
22	B	1	Total	C	O	0	0
			63	57	6		
22	D	1	Total	C	O	0	0
			63	57	6		
22	L	1	Total	C	O	0	0
			63	57	6		
22	N	1	Total	C	O	0	0
			63	57	6		
22	N	1	Total	C	O	0	0
			63	57	6		
22	N	1	Total	C	O	0	0
			63	57	6		

- Molecule 23 is DECYL-BETA-D-MALTOPYRANOSIDE (CCD ID: DMU) (formula: $C_{22}H_{42}O_{11}$) (labeled as "Ligand of Interest" by depositor).



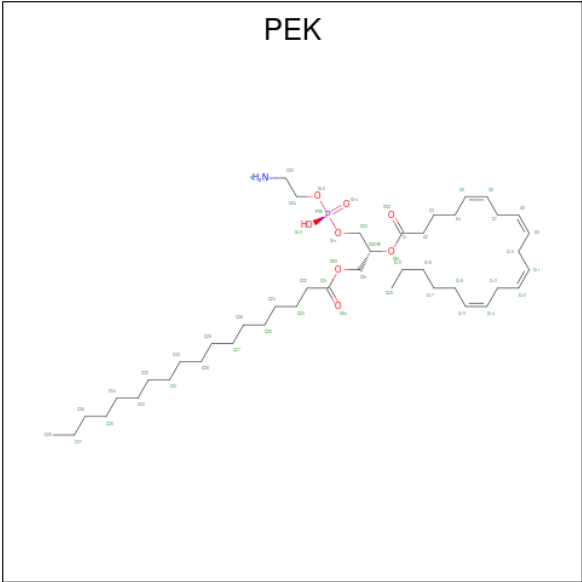
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
23	C	1	Total	C	O	0	0
			33	22	11		
23	C	1	Total	C	O	0	0
			33	22	11		
23	G	1	Total	C	O	0	0
			33	22	11		
23	M	1	Total	C	O	0	0
			33	22	11		
23	P	1	Total	C	O	0	0
			33	22	11		
23	Z	1	Total	C	O	0	0
			33	22	11		

- Molecule 24 is CHOLIC ACID (CCD ID: CHD) (formula: C₂₄H₄₀O₅) (labeled as "Ligand of Interest" by depositor).



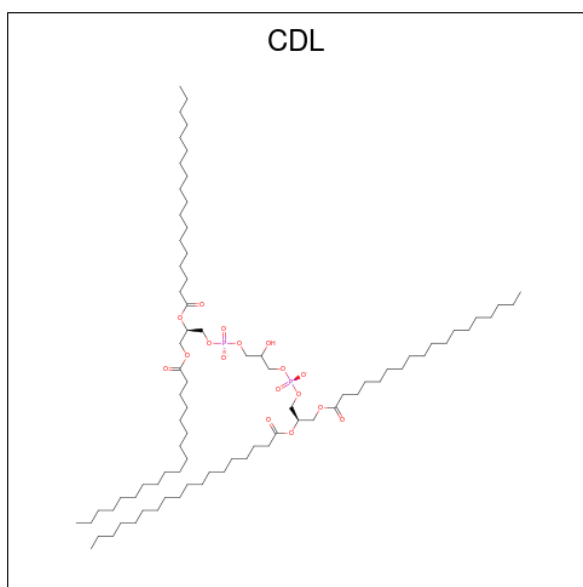
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
24	C	1	Total C O 29 24 5	0	0
24	C	1	Total C O 29 24 5	0	0
24	G	1	Total C O 29 24 5	0	0
24	J	1	Total C O 29 24 5	0	0
24	P	1	Total C O 29 24 5	0	0
24	P	1	Total C O 29 24 5	0	0
24	T	1	Total C O 29 24 5	0	0
24	T	1	Total C O 29 24 5	0	0
24	W	1	Total C O 29 24 5	0	0
24	Y	1	Total C O 29 24 5	0	0

- Molecule 25 is (1S)-2-([(2-AMINOETHOXY)(HYDROXY)PHOSPHORYL]OXY)-1-[(STEAROYL)OXY]METHYLETHYL (5E,8E,11E,14E)-ICOSA-5,8,11,14-TETRAENOATE (CCD ID: PEK) (formula: C₄₃H₇₈NO₈P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
25	C	1	Total	C	N	O	P	0	0
			53	43	1	8	1		
25	G	1	Total	C	N	O	P	0	0
			53	43	1	8	1		
25	P	1	Total	C	N	O	P	0	0
			53	43	1	8	1		
25	P	1	Total	C	N	O	P	0	0
			53	43	1	8	1		
25	T	1	Total	C	N	O	P	0	0
			53	43	1	8	1		
25	T	1	Total	C	N	O	P	0	0
			53	43	1	8	1		

- Molecule 26 is CARDIOLIPIN (CCD ID: CDL) (formula: C₈₁H₁₅₆O₁₇P₂) (labeled as "Ligand of Interest" by depositor).

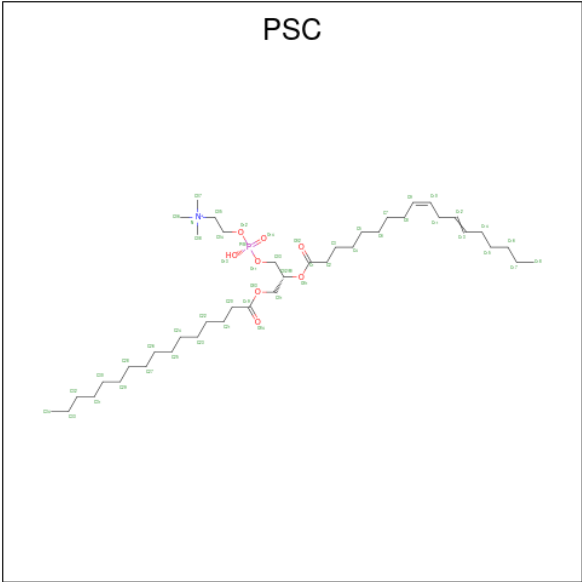


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
26	C	1	Total	C	O	P	0	0
			100	81	17	2		
26	C	1	Total	C	O	P	0	0
			100	81	17	2		
26	P	1	Total	C	O	P	0	0
			100	81	17	2		
26	P	1	Total	C	O	P	0	0
			100	81	17	2		

- Molecule 27 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

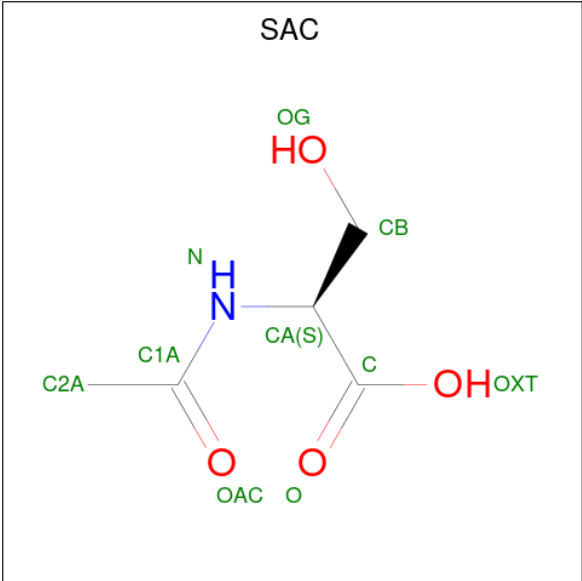
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
27	F	1	Total	Zn	0	0
			1	1		
27	S	1	Total	Zn	0	0
			1	1		

- Molecule 28 is (7R,17E,20E)-4-HYDROXY-N,N,N-TRIMETHYL-9-OXO-7-[(PALMITOYLOXY)METHYL]-3,5,8-TRIOXA-4-PHOSPHAHEXACOSA-17,20-DIEN-1-AMINIUM 4-OXIDE (CCD ID: PSC) (formula: C₄₂H₈₁NO₈P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
28	I	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
28	R	1	Total	C	N	O	P	0	0
			52	42	1	8	1		

- Molecule 29 is N-ACETYL-SERINE (CCD ID: SAC) (formula: C₅H₉NO₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
29	I	1	Total	C	N	O	0	0
			9	5	1	3		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
29	V	1	Total	C	N	O	0	0
			9	5	1	3		

- Molecule 30 is water.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
30	A	86	Total	O			0	0
			86	86				
30	B	62	Total	O			0	0
			62	62				
30	C	42	Total	O			0	0
			42	42				
30	D	43	Total	O			0	0
			43	43				
30	E	24	Total	O			0	0
			24	24				
30	F	26	Total	O			0	0
			26	26				
30	G	20	Total	O			0	0
			20	20				
30	H	19	Total	O			0	0
			19	19				
30	I	12	Total	O			0	0
			12	12				
30	J	14	Total	O			0	0
			14	14				
30	K	10	Total	O			0	0
			10	10				
30	L	7	Total	O			0	0
			7	7				
30	M	9	Total	O			0	0
			9	9				
30	N	49	Total	O			0	0
			49	49				
30	O	25	Total	O			0	0
			25	25				
30	P	39	Total	O			0	0
			39	39				
30	Q	16	Total	O			0	0
			16	16				
30	R	15	Total	O			0	0
			15	15				

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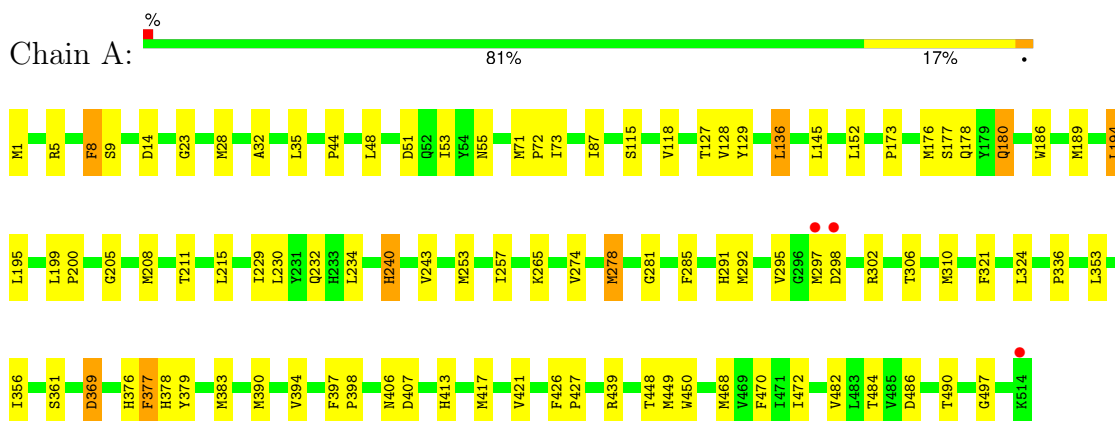
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
30	S	14	Total 14	O 14	0	0
30	T	18	Total 18	O 18	0	0
30	V	5	Total 5	O 5	0	0
30	W	5	Total 5	O 5	0	0
30	Y	7	Total 7	O 7	0	0
30	Z	2	Total 2	O 2	0	0
30	U	19	Total 19	O 19	0	0
30	X	1	Total 1	O 1	0	0

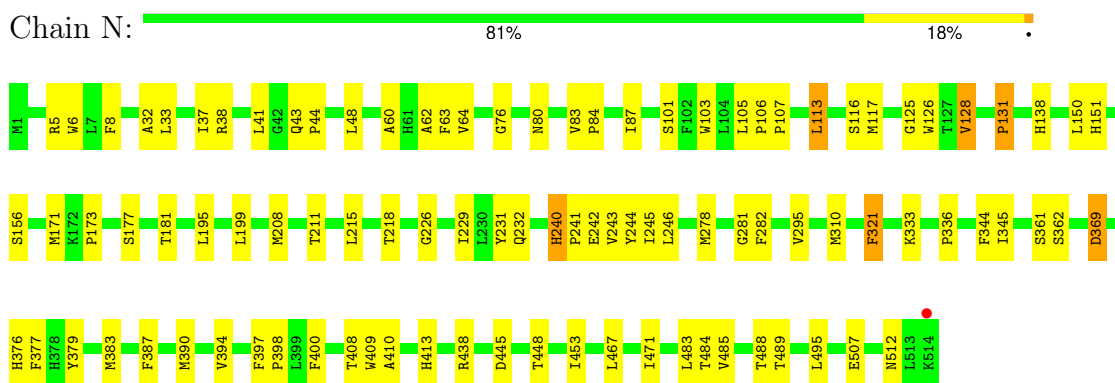
3 Residue-property plots

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

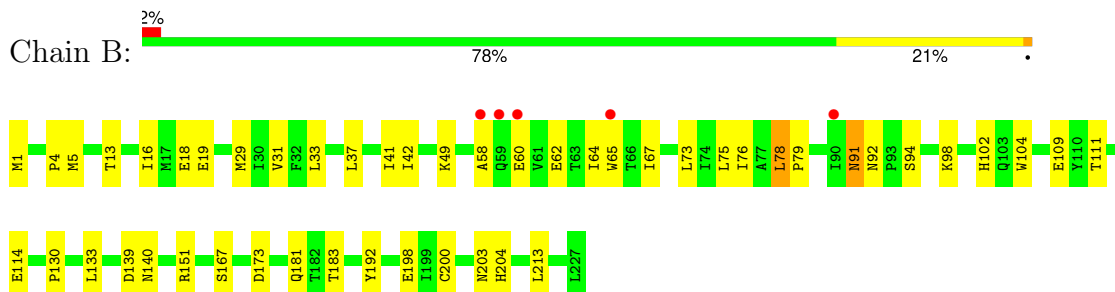
• Molecule 1: Cytochrome c oxidase subunit 1



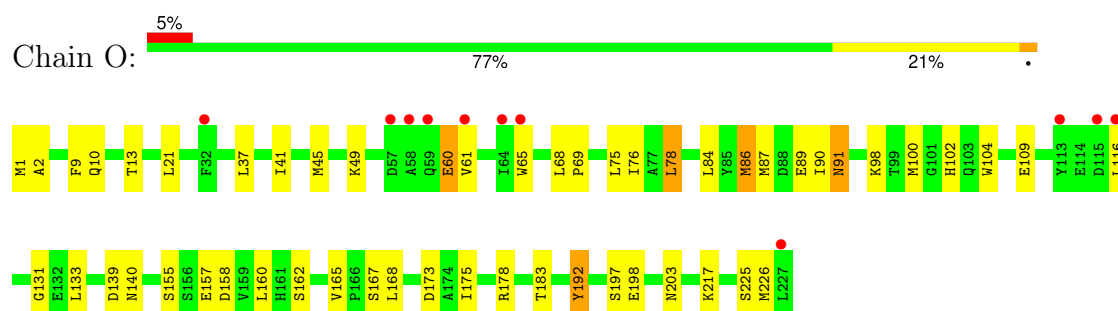
• Molecule 1: Cytochrome c oxidase subunit 1



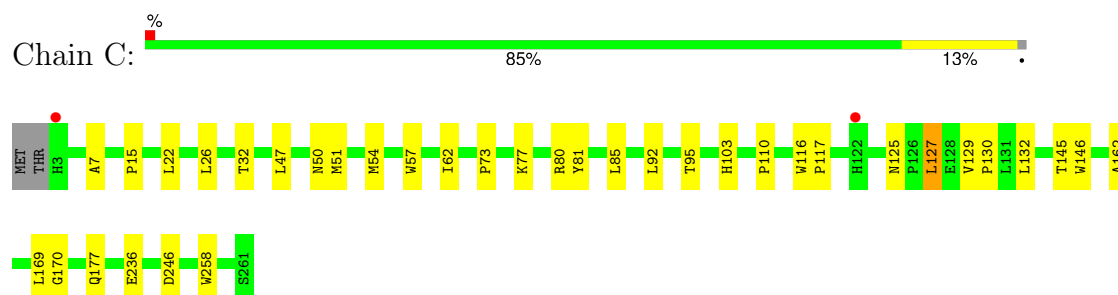
• Molecule 2: Cytochrome c oxidase subunit 2



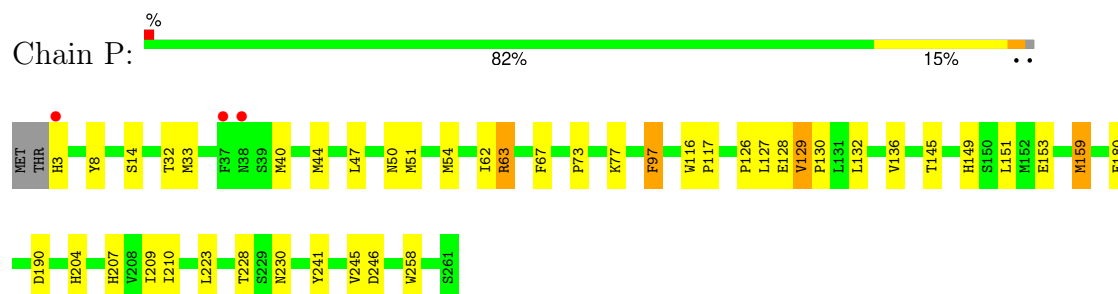
- Molecule 2: Cytochrome c oxidase subunit 2



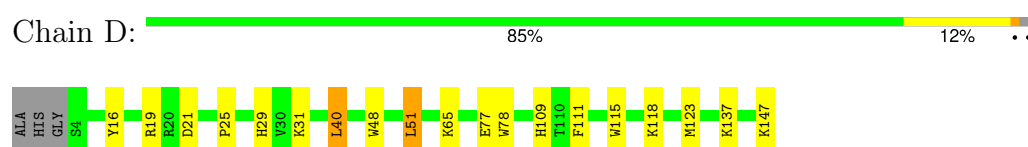
- Molecule 3: Cytochrome c oxidase subunit 3



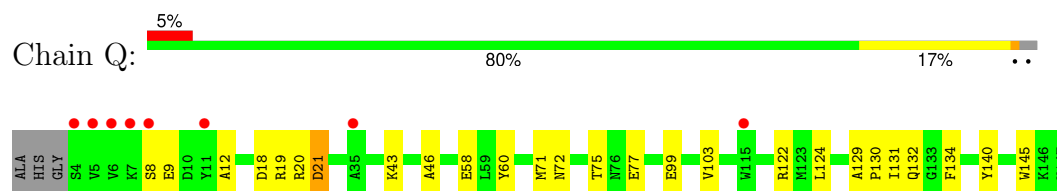
- Molecule 3: Cytochrome c oxidase subunit 3



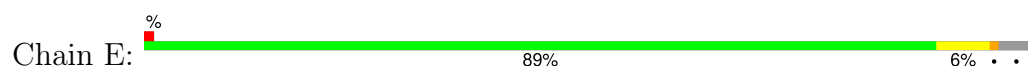
- Molecule 4: Cytochrome c oxidase subunit 4 isoform 1



- Molecule 4: Cytochrome c oxidase subunit 4 isoform 1



- Molecule 5: Cytochrome c oxidase subunit 5A

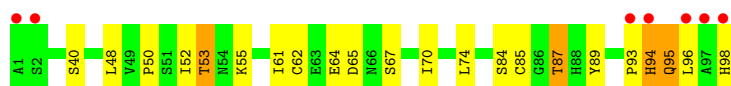
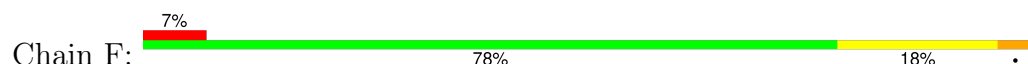




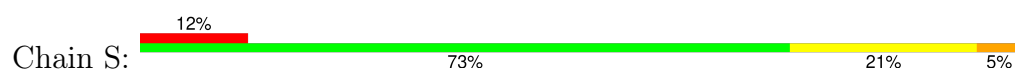
- Molecule 5: Cytochrome c oxidase subunit 5A



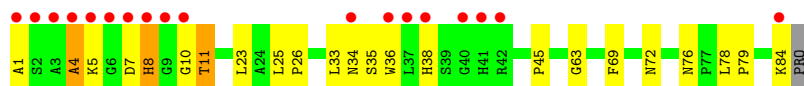
- Molecule 6: Cytochrome c oxidase subunit 5B



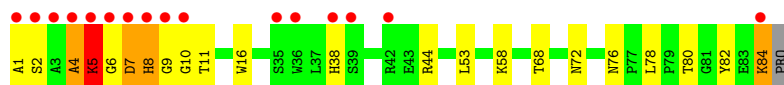
- Molecule 6: Cytochrome c oxidase subunit 5B



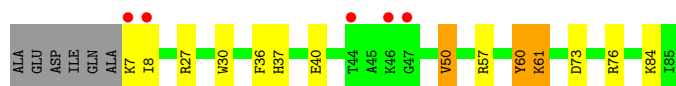
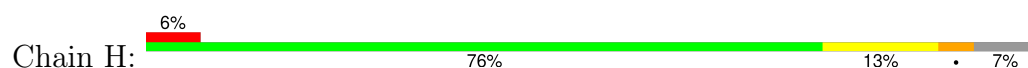
- Molecule 7: Cytochrome c oxidase subunit 6A2



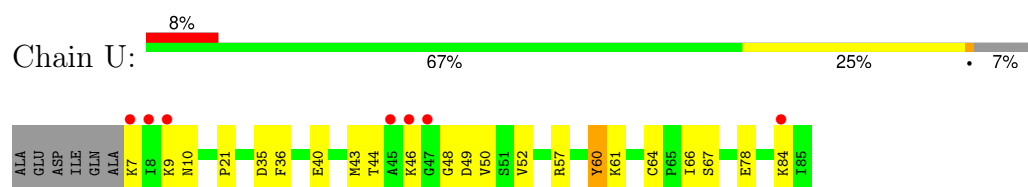
- Molecule 7: Cytochrome c oxidase subunit 6A2



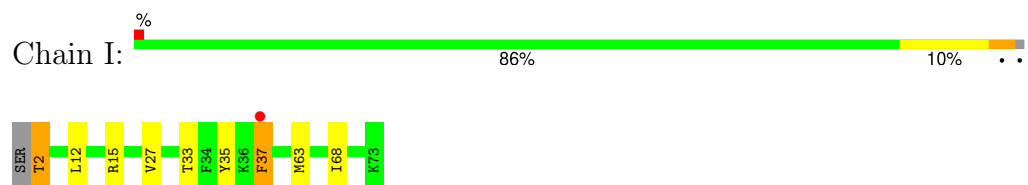
- Molecule 8: Cytochrome c oxidase subunit 6B1



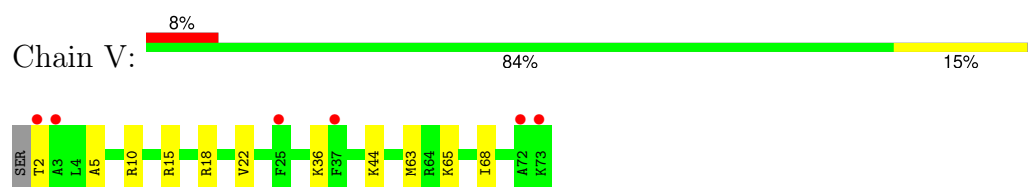
- Molecule 8: Cytochrome c oxidase subunit 6B1



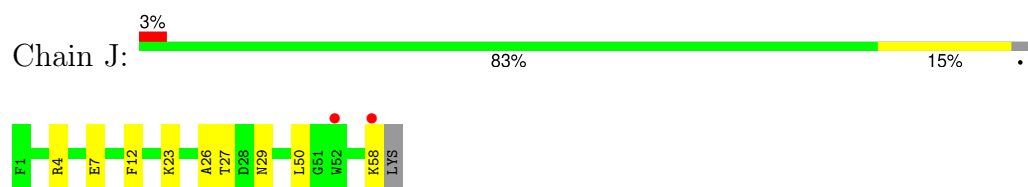
- Molecule 9: Cytochrome c oxidase subunit 6C



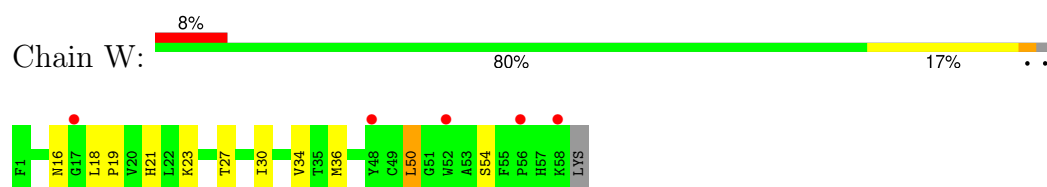
- Molecule 9: Cytochrome c oxidase subunit 6C



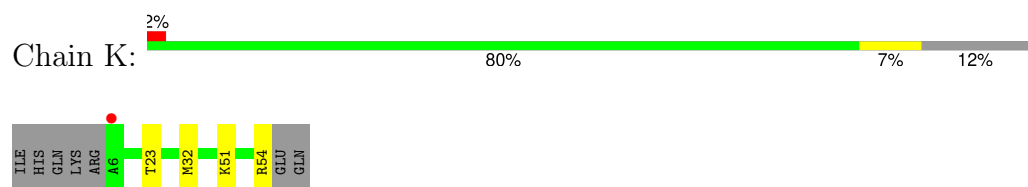
- Molecule 10: Cytochrome c oxidase subunit 7A1



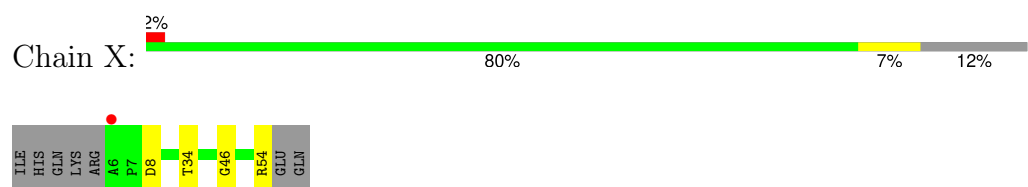
- Molecule 10: Cytochrome c oxidase subunit 7A1



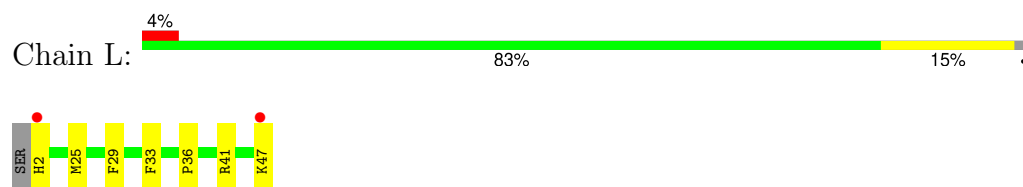
- Molecule 11: Cytochrome c oxidase subunit 7B



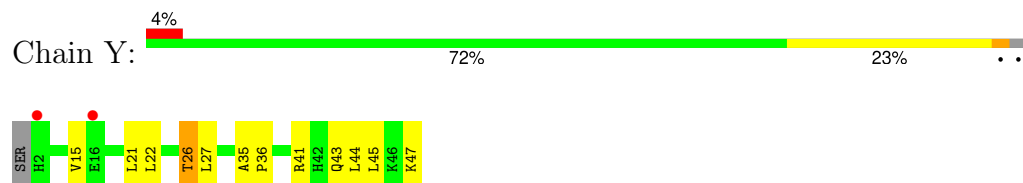
- Molecule 11: Cytochrome c oxidase subunit 7B



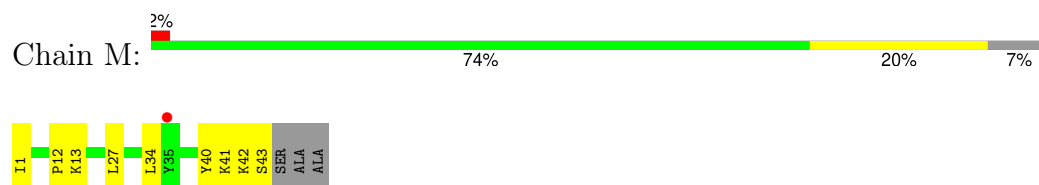
- Molecule 12: Cytochrome c oxidase subunit 7C



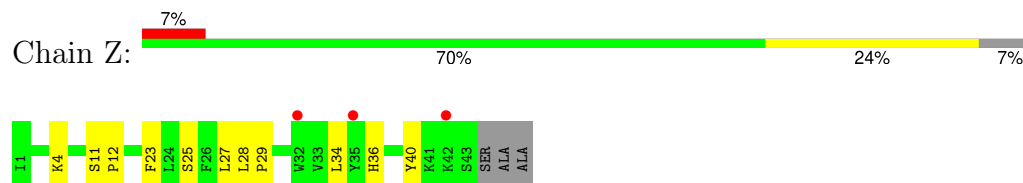
- Molecule 12: Cytochrome c oxidase subunit 7C



- Molecule 13: Cytochrome c oxidase subunit 8B



- Molecule 13: Cytochrome c oxidase subunit 8B



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	178.32Å 185.06Å 208.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 2.39 30.00 – 2.39	Depositor EDS
% Data completeness (in resolution range)	65.6 (30.00-2.39) 65.6 (30.00-2.39)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.66 (at 2.39Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.187 , 0.242 0.193 , 0.242	Depositor DCC
R_{free} test set	8964 reflections (3.30%)	wwPDB-VP
Wilson B-factor (Å ²)	52.8	Xtriage
Anisotropy	0.123	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 38.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.000 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	31819	wwPDB-VP
Average B, all atoms (Å ²)	55.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.80% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CDL, SCN, PSC, CUA, NA, SAC, ZN, CU, TPO, TGL, PEK, EDO, MG, PGV, FME, HEA, DMU, CHD

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	0.98	3/4156 (0.1%)	1.41	11/5678 (0.2%)
1	N	0.98	3/4156 (0.1%)	1.43	13/5678 (0.2%)
2	B	1.01	1/1860 (0.1%)	1.40	5/2534 (0.2%)
2	O	0.96	0/1860	1.35	3/2534 (0.1%)
3	C	0.92	0/2197	1.36	5/3005 (0.2%)
3	P	0.95	0/2197	1.39	7/3005 (0.2%)
4	D	0.96	0/1229	1.42	1/1658 (0.1%)
4	Q	0.93	0/1229	1.39	0/1658
5	E	0.97	0/871	1.39	1/1182 (0.1%)
5	R	0.94	0/871	1.47	2/1182 (0.2%)
6	F	1.04	0/765	1.36	3/1038 (0.3%)
6	S	0.99	0/765	1.30	0/1038
7	G	0.99	0/690	1.31	0/937
7	T	0.94	0/690	1.33	0/937
8	H	0.94	0/682	1.44	1/921 (0.1%)
8	U	0.94	0/682	1.48	2/921 (0.2%)
9	I	0.93	0/605	1.59	3/802 (0.4%)
9	V	0.92	0/605	1.46	0/802
10	J	0.91	0/471	1.43	0/636
10	W	0.99	0/471	1.49	0/636
11	K	0.97	0/398	1.41	0/546
11	X	0.96	0/398	1.35	1/546 (0.2%)
12	L	0.95	0/393	1.39	2/526 (0.4%)
12	Y	0.93	0/393	1.39	1/526 (0.2%)
13	M	0.94	0/345	1.46	0/470
13	Z	0.95	0/345	1.39	0/470
All	All	0.96	7/29324 (0.0%)	1.40	61/39866 (0.2%)

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	198	GLU	C-O	7.82	1.32	1.23
1	N	240	HIS	CE1-NE2	7.73	1.40	1.32
1	N	240	HIS	CG-ND1	-7.68	1.29	1.38
1	N	376	HIS	CE1-NE2	5.86	1.38	1.32
1	A	240	HIS	CE1-NE2	5.46	1.38	1.32
1	A	376	HIS	CE1-NE2	5.24	1.37	1.32
1	A	378	HIS	CE1-NE2	5.08	1.37	1.32

All (61) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	37	PHE	CA-CB-CG	10.12	123.92	113.80
1	N	240	HIS	CA-CB-CG	-8.28	105.52	113.80
1	N	244	TYR	CB-CA-C	8.18	124.76	110.85
9	I	37	PHE	CB-CA-C	8.15	125.52	110.11
1	A	240	HIS	CA-CB-CG	-7.66	106.14	113.80
1	N	240	HIS	CE1-NE2-CD2	-7.57	101.43	109.00
2	B	92	ASN	CB-CA-C	7.52	118.00	110.33
1	A	369	ASP	CA-CB-CG	6.92	119.52	112.60
3	P	204	HIS	CA-CB-CG	-6.75	107.05	113.80
1	A	369	ASP	CB-CA-C	6.73	122.15	111.51
1	A	14	ASP	CA-CB-CG	6.55	119.15	112.60
1	A	8	PHE	CA-CB-CG	6.47	120.27	113.80
12	Y	26	THR	CA-CB-OG1	-6.36	100.07	109.60
1	N	377	PHE	CA-CB-CG	6.31	120.11	113.80
1	A	448	THR	CA-CB-OG1	-6.27	100.20	109.60
3	C	145	THR	N-CA-C	-6.21	104.59	111.36
1	N	8	PHE	CA-CB-CG	6.15	119.95	113.80
1	N	41	LEU	CA-C-N	6.14	126.91	120.03
1	N	41	LEU	C-N-CA	6.14	126.91	120.03
1	A	377	PHE	CA-CB-CG	6.04	119.84	113.80
6	F	61	ILE	CA-C-O	-6.04	117.37	122.63
1	A	240	HIS	N-CA-CB	5.87	117.35	110.42
3	C	177	GLN	N-CA-C	-5.83	105.01	111.36
4	D	31	LYS	CB-CA-C	5.81	118.35	109.34
1	N	125	GLY	CA-C-O	-5.81	117.58	122.29
5	R	78	HIS	CA-C-N	5.72	128.21	120.38
5	R	78	HIS	C-N-CA	5.72	128.21	120.38
3	C	246	ASP	CA-CB-CG	5.67	118.27	112.60
1	N	113	LEU	CA-C-N	5.66	128.19	120.54
1	N	113	LEU	C-N-CA	5.66	128.19	120.54
3	P	63	ARG	CA-C-N	5.60	128.06	120.38
3	P	63	ARG	C-N-CA	5.60	128.06	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	192	TYR	CB-CA-C	5.57	119.06	110.14
9	I	15	ARG	N-CA-C	-5.55	105.23	111.28
1	A	484	THR	CA-CB-OG1	-5.48	101.38	109.60
2	B	4	PRO	N-CA-C	5.45	119.77	111.15
1	N	321	PHE	CB-CA-C	5.45	119.51	110.90
8	H	73	ASP	CA-CB-CG	5.42	118.02	112.60
2	O	198	GLU	CB-CG-CD	5.40	121.77	112.60
3	P	145	THR	CA-CB-OG1	-5.39	101.52	109.60
6	F	53	THR	CA-C-N	5.37	128.01	120.28
6	F	53	THR	C-N-CA	5.37	128.01	120.28
2	O	192	TYR	CB-CA-C	5.36	119.52	109.71
3	P	3	HIS	CA-CB-CG	5.35	119.15	113.80
1	A	274	VAL	N-CA-C	-5.33	105.89	110.74
11	X	34	THR	CA-CB-OG1	-5.32	101.62	109.60
3	P	97	PHE	CB-CA-C	5.27	119.12	110.95
8	U	10	ASN	CA-C-N	5.27	128.35	120.87
8	U	10	ASN	C-N-CA	5.27	128.35	120.87
1	N	181	THR	CB-CA-C	5.26	116.00	108.68
2	O	173	ASP	CB-CA-C	5.15	117.99	109.70
5	E	14	ARG	CG-CD-NE	5.13	123.28	112.00
12	L	25	MET	CA-C-N	5.11	127.44	120.54
12	L	25	MET	C-N-CA	5.11	127.44	120.54
3	C	145	THR	CA-CB-OG1	-5.08	101.99	109.60
2	B	13	THR	CA-CB-OG1	-5.07	102.00	109.60
3	P	209	ILE	N-CA-C	-5.05	105.47	110.62
2	B	173	ASP	CA-CB-CG	5.05	117.65	112.60
1	N	131	PRO	N-CD-CG	-5.02	97.77	103.80
1	A	439	ARG	CB-CA-C	5.01	118.95	111.88
3	C	132	LEU	N-CA-C	-5.01	105.71	111.07

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4027	0	4001	70	0
1	N	4027	0	4001	67	0
2	B	1824	0	1833	31	0
2	O	1824	0	1833	35	0
3	C	2110	0	2027	28	0
3	P	2110	0	2027	30	0
4	D	1195	0	1183	14	0
4	Q	1195	0	1183	19	0
5	E	852	0	845	4	0
5	R	852	0	845	16	0
6	F	748	0	728	10	0
6	S	748	0	728	17	0
7	G	675	0	644	21	0
7	T	675	0	644	29	0
8	H	662	0	623	9	0
8	U	662	0	623	9	0
9	I	592	0	604	4	0
9	V	592	0	604	5	0
10	J	460	0	459	3	0
10	W	460	0	459	6	0
11	K	384	0	366	5	0
11	X	384	0	366	3	0
12	L	380	0	380	5	0
12	Y	380	0	380	10	0
13	M	335	0	352	7	0
13	Z	335	0	352	8	0
14	A	1	0	0	0	0
14	N	1	0	0	0	0
15	A	1	0	0	0	0
15	N	1	0	0	0	0
16	A	1	0	0	0	0
16	N	1	0	0	0	0
17	A	102	0	152	13	0
17	C	102	0	152	4	0
17	N	102	0	152	11	0
17	P	102	0	152	5	0
18	A	120	0	108	7	0
18	N	120	0	108	7	0
19	A	40	0	60	1	0
19	B	32	0	48	0	0
19	C	20	0	30	3	0
19	D	12	0	18	0	0
19	E	20	0	30	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	F	28	0	42	1	0
19	G	20	0	30	1	0
19	I	8	0	12	1	0
19	J	12	0	18	0	0
19	K	8	0	12	0	0
19	L	8	0	12	0	0
19	M	8	0	12	0	0
19	N	36	0	54	1	0
19	O	8	0	12	0	0
19	P	16	0	24	0	0
19	Q	12	0	18	0	0
19	R	8	0	12	1	0
19	S	32	0	48	2	0
19	T	8	0	12	0	0
19	U	4	0	6	0	0
19	V	12	0	18	0	0
19	W	12	0	18	0	0
20	A	3	0	0	1	0
20	C	3	0	0	3	0
20	N	3	0	0	3	0
20	P	3	0	0	1	0
21	B	2	0	0	0	0
21	O	2	0	0	0	0
22	B	63	0	110	1	0
22	D	63	0	110	5	0
22	L	63	0	110	1	0
22	N	189	0	330	9	0
23	C	66	0	82	2	0
23	G	33	0	42	0	0
23	M	33	0	41	2	0
23	P	33	0	42	0	0
23	Z	33	0	41	1	0
24	C	58	0	78	1	0
24	G	29	0	39	0	0
24	J	29	0	39	0	0
24	P	58	0	78	1	0
24	T	58	0	78	12	0
24	W	29	0	39	0	0
24	Y	29	0	39	4	0
25	C	53	0	77	1	0
25	G	53	0	77	3	0
25	P	106	0	154	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	T	106	0	154	6	0
26	C	200	0	312	9	0
26	P	200	0	312	11	0
27	F	1	0	0	0	0
27	S	1	0	0	0	0
28	I	52	0	80	3	0
28	R	52	0	80	3	0
29	I	9	0	8	1	0
29	V	9	0	8	1	0
30	A	86	0	0	3	0
30	B	62	0	0	5	0
30	C	42	0	0	3	0
30	D	43	0	0	0	0
30	E	24	0	0	1	0
30	F	26	0	0	0	0
30	G	20	0	0	3	0
30	H	19	0	0	4	0
30	I	12	0	0	1	0
30	J	14	0	0	1	0
30	K	10	0	0	3	0
30	L	7	0	0	0	0
30	M	9	0	0	0	0
30	N	49	0	0	4	0
30	O	25	0	0	1	0
30	P	39	0	0	7	0
30	Q	16	0	0	4	0
30	R	15	0	0	0	0
30	S	14	0	0	2	0
30	T	18	0	0	4	0
30	U	19	0	0	0	0
30	V	5	0	0	1	0
30	W	5	0	0	0	0
30	X	1	0	0	1	0
30	Y	7	0	0	1	0
30	Z	2	0	0	0	0
All	All	31819	0	32020	482	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 8.

All (482) 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)
19:C:310:EDO:O1	25:T:103:PEK:H012	1.60	1.01
2:B:65:TRP:HB2	30:B:442:HOH:O	1.59	1.00
17:A:604:PGV:H71	17:A:604:PGV:H22	1.44	0.97
17:A:604:PGV:H22	17:A:604:PGV:C7	1.96	0.95
10:W:30:ILE:O	10:W:34:VAL:HG23	1.73	0.86
17:C:305:PGV:H301	7:T:1:ALA:HB2	1.59	0.83
25:P:305:PEK:H012	30:P:401:HOH:O	1.79	0.81
7:G:1:ALA:HA	17:P:307:PGV:H301	1.61	0.80
17:A:604:PGV:H22	17:A:604:PGV:C6	2.14	0.77
17:N:620:PGV:C6	17:N:620:PGV:O01	2.33	0.77
22:N:616:TGL:HG2	22:N:616:TGL:HC22	1.67	0.76
1:N:5:ARG:HD3	1:N:6:TRP:CE2	2.20	0.76
25:P:301:PEK:H052	30:P:438:HOH:O	1.86	0.75
3:C:258:TRP:CD1	26:C:313:CDL:H561	2.21	0.75
7:G:8:HIS:H	7:G:8:HIS:CD2	2.04	0.74
17:N:620:PGV:O01	17:N:620:PGV:H62	1.88	0.74
7:T:72:ASN:H	7:T:76:ASN:HD22	1.35	0.73
8:H:61:LYS:HE3	30:H:515:HOH:O	1.88	0.73
2:B:49:LYS:HE2	30:E:311:HOH:O	1.89	0.71
11:K:54:ARG:HD3	30:K:1010:HOH:O	1.90	0.71
25:C:303:PEK:H221	30:C:438:HOH:O	1.91	0.71
7:T:8:HIS:O	24:T:105:CHD:H62	1.93	0.69
3:C:146:TRP:HE1	19:C:308:EDO:H11	1.57	0.69
7:G:72:ASN:H	7:G:76:ASN:HD22	1.39	0.68
17:A:604:PGV:H71	17:A:604:PGV:C2	2.22	0.68
17:C:305:PGV:H011	30:C:416:HOH:O	1.93	0.68
23:C:314:DMU:H29	30:C:423:HOH:O	1.92	0.67
1:N:5:ARG:HD3	1:N:6:TRP:NE1	2.09	0.67
9:V:65:LYS:O	11:X:54:ARG:NH2	2.26	0.67
1:A:297:MET:HG3	1:A:302:ARG:HG3	1.75	0.67
22:N:605:TGL:OA1	22:N:605:TGL:HG2	1.95	0.67
17:N:620:PGV:H211	30:N:746:HOH:O	1.95	0.67
7:T:76:ASN:HD21	25:T:102:PEK:HN2	1.43	0.67
1:A:292:MET:O	1:A:295:VAL:HG12	1.95	0.67
9:V:10:ARG:O	9:V:15:ARG:NH1	2.29	0.65
25:P:305:PEK:H383	26:P:313:CDL:H271	1.78	0.65
6:F:93:PRO:O	6:F:95:GLN:N	2.30	0.65
12:L:41:ARG:HD2	13:M:40:TYR:CZ	2.32	0.65
4:D:78:TRP:HA	22:D:201:TGL:HB52	1.80	0.64
25:P:301:PEK:H261	25:P:301:PEK:H72	1.79	0.64
1:N:488:THR:HB	1:N:495:LEU:HD13	1.79	0.64
30:A:719:HOH:O	22:D:201:TGL:HG11	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:7:ALA:HB1	20:C:312:SCN:N	2.13	0.63
17:N:620:PGV:C5	17:N:620:PGV:C1	2.76	0.63
2:B:1:FME:HE3	4:D:123:MET:HE3	1.78	0.63
1:N:400:PHE:HB3	22:N:605:TGL:H283	1.81	0.63
7:G:69:PHE:O	19:G:104:EDO:O1	2.17	0.62
1:A:291:HIS:CE1	20:A:614:SCN:S	2.93	0.62
1:A:468:MET:HE1	18:A:607:HEA:H212	1.82	0.62
3:P:129:VAL:HG13	30:P:420:HOH:O	2.00	0.62
13:Z:28:LEU:HB2	13:Z:29:PRO:HD3	1.82	0.62
26:P:313:CDL:OB7	26:P:313:CDL:HB62	2.00	0.61
6:F:93:PRO:O	6:F:94:HIS:C	2.43	0.61
6:S:54:ASN:HD22	6:S:54:ASN:C	2.07	0.61
17:N:620:PGV:H231	30:N:746:HOH:O	1.99	0.61
6:S:92:VAL:O	6:S:93:PRO:C	2.44	0.61
1:N:240:HIS:HB3	1:N:241:PRO:HD3	1.83	0.60
25:P:305:PEK:C38	26:P:313:CDL:H271	2.32	0.60
17:A:604:PGV:C7	17:A:604:PGV:C2	2.78	0.60
10:J:7:GLU:HG3	30:J:212:HOH:O	2.02	0.59
1:N:208:MET:HE2	3:P:97:PHE:CD1	2.37	0.59
18:N:608:HEA:HHC	18:N:608:HEA:H122	1.85	0.59
7:T:7:ASP:O	7:T:8:HIS:C	2.44	0.59
1:A:178:GLN:CB	7:T:9:GLY:HA2	2.32	0.59
2:B:58:ALA:O	2:B:62:GLU:HG3	2.02	0.59
1:N:321:PHE:HB3	2:O:65:TRP:CE2	2.38	0.59
3:C:50:ASN:ND2	3:C:54:MET:HE2	2.18	0.59
8:U:78:GLU:O	8:U:78:GLU:HG2	2.03	0.59
1:A:199:LEU:N	1:A:200:PRO:CD	2.66	0.58
18:A:606:HEA:HBC1	18:A:606:HEA:HMC1	1.85	0.58
17:A:604:PGV:H291	13:M:12:PRO:HG3	1.85	0.58
18:N:608:HEA:HMC1	18:N:608:HEA:HBC1	1.85	0.58
12:Y:35:ALA:HB3	12:Y:36:PRO:HD3	1.84	0.58
1:A:240:HIS:O	1:A:243:VAL:HG22	2.03	0.58
1:N:409:TRP:CZ2	17:N:620:PGV:H12	2.38	0.58
17:A:604:PGV:O13	17:A:604:PGV:H31	2.03	0.58
1:N:128:VAL:HG13	1:N:231:TYR:OH	2.04	0.58
7:T:4:ALA:C	7:T:5:LYS:HG2	2.29	0.58
11:K:54:ARG:HB3	30:K:1008:HOH:O	2.04	0.57
7:T:58:LYS:HG2	30:T:207:HOH:O	2.03	0.57
1:A:406:ASN:HD21	17:A:604:PGV:H91	1.69	0.57
25:T:102:PEK:H71	25:T:102:PEK:H32	1.86	0.57
26:P:313:CDL:H122	26:P:313:CDL:OB3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:40:GLU:HG2	8:H:50:VAL:HG22	1.86	0.57
3:P:116:TRP:HA	3:P:117:PRO:C	2.29	0.57
1:A:32:ALA:HB3	12:L:36:PRO:HG2	1.87	0.57
3:C:80:ARG:NH2	3:C:236:GLU:OE2	2.36	0.57
30:N:731:HOH:O	19:S:2507:EDO:H11	2.04	0.57
1:A:229:ILE:HD12	1:A:295:VAL:CG2	2.35	0.57
1:N:240:HIS:CE1	20:N:614:SCN:C	2.88	0.57
6:S:48:LEU:HG	6:S:92:VAL:HG11	1.86	0.57
1:N:507:GLU:OE1	19:N:618:EDO:O1	2.20	0.56
2:O:139:ASP:OD1	2:O:140:ASN:N	2.37	0.56
1:A:390:MET:HE1	1:A:468:MET:SD	2.45	0.56
4:D:48:TRP:HA	4:D:51:LEU:HD22	1.87	0.56
1:N:131:PRO:HD3	2:O:160:LEU:HG	1.86	0.56
6:F:50:PRO:HB3	6:F:94:HIS:HB3	1.86	0.56
2:B:102:HIS:O	2:B:104:TRP:HA	2.05	0.56
7:G:76:ASN:HD21	25:G:101:PEK:HN2	1.53	0.56
1:N:383:MET:O	1:N:387:PHE:HB2	2.06	0.56
10:W:16:ASN:OD1	10:W:23:LYS:HE2	2.06	0.56
3:C:258:TRP:NE1	26:C:313:CDL:H561	2.21	0.56
1:N:390:MET:HA	1:N:390:MET:HE3	1.88	0.55
25:G:101:PEK:C12	25:G:101:PEK:H161	2.36	0.55
1:N:211:THR:HG22	1:N:215:LEU:HD12	1.88	0.55
1:A:468:MET:HE1	18:A:607:HEA:C21	2.36	0.55
7:G:11:TPO:O1P	7:G:11:TPO:HA	2.05	0.55
12:L:41:ARG:HD2	13:M:40:TYR:OH	2.07	0.55
3:P:129:VAL:N	3:P:130:PRO:CD	2.69	0.55
24:T:105:CHD:H12	30:T:218:HOH:O	2.07	0.55
3:C:7:ALA:CB	20:C:312:SCN:N	2.70	0.54
4:Q:99:GLU:O	4:Q:103:VAL:HB	2.07	0.54
3:P:246:ASP:HB2	30:P:427:HOH:O	2.07	0.54
12:Y:45:LEU:HD12	24:Y:101:CHD:H152	1.89	0.54
1:A:310:MET:HB3	2:B:73:LEU:HD22	1.89	0.54
6:F:70:ILE:HG13	6:F:84:SER:HB3	1.90	0.54
11:K:54:ARG:CB	30:K:1008:HOH:O	2.56	0.54
1:N:240:HIS:O	1:N:243:VAL:HG22	2.07	0.54
1:N:489:THR:HB	6:S:70:ILE:HG23	1.89	0.54
2:B:41:ILE:O	2:B:42:ILE:C	2.50	0.54
1:N:408:THR:OG1	17:N:620:PGV:H41	2.08	0.54
1:A:229:ILE:HD12	1:A:295:VAL:HG23	1.89	0.54
2:B:29:MET:HG3	9:I:35:TYR:CD1	2.43	0.54
18:N:607:HEA:HBC1	18:N:607:HEA:CMC	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:48:LEU:O	12:Y:44:LEU:HD21	2.08	0.54
1:N:128:VAL:HG22	1:N:128:VAL:O	2.08	0.54
3:P:47:LEU:O	3:P:51:MET:HG2	2.06	0.54
7:T:84:LYS:HE2	7:T:84:LYS:C	2.32	0.54
8:U:57:ARG:HA	8:U:60:TYR:CD2	2.43	0.54
1:A:87:ILE:O	1:A:173:PRO:HD3	2.08	0.53
1:A:205:GLY:HA2	1:A:208:MET:HE3	1.90	0.53
2:O:175:ILE:HD12	2:O:178:ARG:HD3	1.90	0.53
1:N:229:ILE:HD11	2:O:175:ILE:HD13	1.90	0.53
3:P:40:MET:O	3:P:44:MET:HG2	2.08	0.53
13:Z:28:LEU:HD23	23:Z:101:DMU:H7	1.90	0.53
8:U:40:GLU:HG2	8:U:50:VAL:CG1	2.38	0.53
1:N:171:MET:HE3	3:P:8:TYR:CD1	2.44	0.53
1:N:483:LEU:HD21	13:Z:4:LYS:HG3	1.91	0.53
7:G:1:ALA:HB2	17:P:307:PGV:H321	1.90	0.53
2:O:9:PHE:HB2	2:O:21:LEU:HD21	1.91	0.52
1:A:310:MET:HE1	2:B:76:ILE:HG21	1.91	0.52
9:V:36:LYS:C	9:V:36:LYS:HD2	2.33	0.52
26:P:308:CDL:HB22	26:P:308:CDL:CB3	2.39	0.52
9:I:2:THR:N	29:I:102:SAC:HG	2.08	0.52
1:A:71:MET:CE	1:A:195:LEU:HD21	2.40	0.52
17:C:305:PGV:C30	7:T:1:ALA:HB2	2.34	0.52
7:G:8:HIS:CE1	1:N:278:MET:HE1	2.45	0.52
24:T:105:CHD:C18	24:T:105:CHD:H222	2.40	0.52
23:C:301:DMU:H33	7:G:63:GLY:HA2	1.92	0.52
26:C:306:CDL:OA5	26:C:306:CDL:H1	2.10	0.52
2:O:165:VAL:HG11	2:O:168:LEU:HD12	1.91	0.52
30:B:450:HOH:O	28:I:101:PSC:H212	2.10	0.51
24:T:105:CHD:H183	24:T:105:CHD:H231	1.92	0.51
2:B:18:GLU:HG2	30:B:416:HOH:O	2.09	0.51
19:I:103:EDO:H22	30:I:210:HOH:O	2.09	0.51
1:A:178:GLN:HB2	7:T:9:GLY:HA2	1.91	0.51
1:A:208:MET:HE1	1:A:234:LEU:HD13	1.92	0.51
1:A:178:GLN:HB3	7:T:9:GLY:HA2	1.93	0.51
1:A:324:LEU:HD13	2:B:41:ILE:CG2	2.41	0.51
1:A:417:MET:CE	18:A:607:HEA:H263	2.41	0.51
2:O:13:THR:HG21	2:O:192:TYR:CE1	2.46	0.51
1:A:426:PHE:N	1:A:427:PRO:CD	2.74	0.51
8:U:43:MET:HE3	8:U:48:GLY:HA3	1.93	0.51
1:A:281:GLY:HA3	7:T:4:ALA:CB	2.41	0.51
1:N:310:MET:HE1	2:O:76:ILE:CG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1:FME:HE1	2:B:133:LEU:HD21	1.92	0.51
2:O:104:TRP:CG	2:O:203:ASN:HB2	2.46	0.51
3:C:127:LEU:HD22	26:C:313:CDL:H571	1.93	0.51
1:A:324:LEU:HD13	2:B:41:ILE:HG21	1.91	0.50
5:R:25:ASP:OD2	5:R:28:GLU:HG3	2.10	0.50
17:A:605:PGV:H21	3:C:57:TRP:CZ2	2.46	0.50
28:R:201:PSC:H011	28:R:201:PSC:H211	1.93	0.50
7:T:44:ARG:HD2	7:T:82:TYR:CE1	2.46	0.50
8:U:40:GLU:HG2	8:U:50:VAL:HG13	1.94	0.50
2:O:41:ILE:O	2:O:45:MET:HG2	2.11	0.50
24:T:105:CHD:H183	24:T:105:CHD:C23	2.41	0.50
1:A:390:MET:HE2	1:A:413:HIS:HE1	1.76	0.50
1:N:408:THR:OG1	4:Q:77:GLU:OE1	2.24	0.50
1:A:278:MET:SD	7:T:5:LYS:HB3	2.52	0.50
1:A:336:PRO:HB2	1:A:394:VAL:HG11	1.94	0.50
3:P:132:LEU:O	3:P:136:VAL:HG23	2.12	0.50
5:R:18:TYR:CE2	19:R:202:EDO:H22	2.47	0.50
1:A:229:ILE:CD1	1:A:295:VAL:HG23	2.42	0.49
2:B:104:TRP:CG	2:B:203:ASN:HB2	2.47	0.49
4:D:109:HIS:HE1	4:D:115:TRP:CZ3	2.30	0.49
7:G:8:HIS:ND1	1:N:278:MET:HE1	2.28	0.49
2:B:151:ARG:HD3	2:B:181:GLN:HE21	1.78	0.49
3:P:126:PRO:HG2	26:P:313:CDL:H782	1.94	0.49
7:T:6:GLY:O	7:T:8:HIS:N	2.42	0.49
2:B:64:ILE:HA	30:B:457:HOH:O	2.12	0.49
3:P:153:GLU:OE1	7:T:11:TPO:HG23	2.12	0.49
8:H:27:ARG:NH1	30:H:501:HOH:O	2.44	0.49
7:T:68:THR:HG23	30:T:206:HOH:O	2.13	0.49
1:A:379:TYR:O	1:A:383:MET:HB2	2.13	0.49
12:Y:26:THR:HG23	13:Z:25:SER:CB	2.42	0.49
1:A:497:GLY:HA2	19:A:608:EDO:H21	1.95	0.49
4:D:77:GLU:HB3	22:D:201:TGL:CB3	2.42	0.49
3:P:258:TRP:CD1	26:P:313:CDL:H781	2.48	0.49
5:R:10:GLU:O	5:R:14:ARG:HG2	2.13	0.49
2:O:100:MET:CE	2:O:157:GLU:HG3	2.43	0.48
1:A:306:THR:O	1:A:310:MET:HG3	2.13	0.48
1:A:417:MET:HE1	18:A:607:HEA:H263	1.94	0.48
3:P:151:LEU:HB2	3:P:159:MET:HG3	1.94	0.48
4:Q:8:SER:CB	30:Q:1713:HOH:O	2.60	0.48
7:T:7:ASP:C	7:T:9:GLY:N	2.67	0.48
17:N:620:PGV:C1	17:N:620:PGV:H52	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Y:26:THR:HG23	13:Z:25:SER:HB2	1.94	0.48
1:A:321:PHE:HB3	2:B:65:TRP:CE2	2.48	0.48
1:N:87:ILE:O	1:N:173:PRO:HD3	2.13	0.48
24:P:309:CHD:H212	24:P:309:CHD:H183	1.96	0.48
3:C:129:VAL:N	3:C:130:PRO:CD	2.77	0.48
1:N:33:LEU:O	1:N:37:ILE:HG13	2.13	0.48
1:N:397:PHE:N	1:N:398:PRO:CD	2.77	0.48
1:A:177:SER:H	1:A:180:GLN:HE21	1.60	0.48
3:C:47:LEU:O	3:C:51:MET:HG2	2.13	0.48
26:P:308:CDL:OA5	26:P:308:CDL:H1	2.14	0.48
1:A:449:MET:SD	2:B:5:MET:HG2	2.53	0.48
5:R:105:GLY:HA2	5:R:108:LYS:HD3	1.96	0.48
7:T:6:GLY:HA2	25:T:103:PEK:C38	2.43	0.48
2:B:139:ASP:OD1	2:B:140:ASN:N	2.47	0.48
4:D:78:TRP:N	22:D:201:TGL:HB32	2.28	0.48
5:E:78:HIS:CD2	9:I:12:LEU:HD22	2.49	0.48
4:Q:8:SER:HB2	30:Q:1713:HOH:O	2.14	0.48
13:M:42:LYS:O	13:M:43:SER:CB	2.61	0.47
22:N:604:TGL:HG11	30:N:738:HOH:O	2.13	0.47
9:V:63:MET:HB3	9:V:68:ILE:HD11	1.95	0.47
19:C:310:EDO:O1	25:T:103:PEK:C01	2.49	0.47
2:O:131:GLY:O	4:Q:122:ARG:HD3	2.14	0.47
3:P:62:ILE:HD12	26:P:308:CDL:H512	1.95	0.47
4:Q:130:PRO:HG2	4:Q:131:ILE:HD12	1.95	0.47
7:G:4:ALA:CB	1:N:281:GLY:C	2.87	0.47
8:H:60:TYR:CD1	8:H:60:TYR:C	2.93	0.47
1:N:310:MET:HE1	2:O:76:ILE:HG22	1.95	0.47
3:P:54:MET:HE1	17:P:306:PGV:H131	1.95	0.47
1:N:379:TYR:O	1:N:383:MET:HB2	2.15	0.47
18:N:607:HEA:H253	2:O:69:PRO:HB3	1.96	0.47
1:A:253:MET:O	1:A:257:ILE:HG13	2.14	0.47
4:D:40:LEU:O	4:D:40:LEU:HD12	2.15	0.47
17:N:620:PGV:H62	17:N:620:PGV:C2	2.45	0.47
3:P:129:VAL:N	3:P:130:PRO:HD2	2.30	0.47
17:A:604:PGV:H32	30:A:769:HOH:O	2.14	0.47
2:B:98:LYS:HB2	2:B:109:GLU:HB2	1.97	0.47
7:G:10:GLY:O	7:G:11:TPO:C	2.63	0.47
10:W:19:PRO:HB2	10:W:21:HIS:ND1	2.30	0.47
1:A:211:THR:HG22	1:A:215:LEU:HD12	1.97	0.46
7:G:8:HIS:CD2	7:G:8:HIS:N	2.78	0.46
13:Z:36:HIS:O	13:Z:40:TYR:CD2	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:25:LEU:N	7:G:26:PRO:CD	2.79	0.46
1:N:242:GLU:O	1:N:246:LEU:HG	2.14	0.46
24:T:105:CHD:O7	24:T:105:CHD:C15	2.63	0.46
1:A:48:LEU:HB2	30:A:709:HOH:O	2.16	0.46
6:S:42:THR:HG21	30:S:2604:HOH:O	2.15	0.46
6:F:52:ILE:HG22	6:F:95:GLN:HA	1.98	0.46
13:M:42:LYS:O	13:M:43:SER:HB2	2.15	0.46
1:N:76:GLY:O	1:N:80:ASN:HB2	2.15	0.46
17:N:620:PGV:H62	17:N:620:PGV:C1	2.45	0.46
6:F:87:THR:HG22	6:F:89:TYR:CE1	2.50	0.46
3:P:129:VAL:HG21	3:P:180:GLU:CG	2.45	0.46
8:H:61:LYS:CE	30:H:515:HOH:O	2.58	0.46
1:N:240:HIS:O	1:N:241:PRO:C	2.59	0.46
1:N:362:SER:HA	2:O:87:MET:HE1	1.98	0.46
6:S:10:GLU:OE2	6:S:10:GLU:HA	2.15	0.46
1:N:195:LEU:HD22	1:N:199:LEU:HD11	1.98	0.46
2:B:91:ASN:HD21	2:B:183:THR:HG21	1.81	0.46
22:B:302:TGL:H181	4:D:137:LYS:HZ1	1.81	0.46
17:C:305:PGV:H72	17:C:305:PGV:H22	1.97	0.46
10:J:12:PHE:O	10:J:23:LYS:HE2	2.16	0.46
2:O:116:LEU:HD13	2:O:226:MET:HB3	1.98	0.46
4:Q:12:ALA:HA	6:S:73:TRP:CD1	2.51	0.46
6:S:69:VAL:O	19:S:2503:EDO:H21	2.15	0.46
1:N:410:ALA:O	1:N:413:HIS:HB3	2.16	0.45
17:N:620:PGV:O01	17:N:620:PGV:C5	2.64	0.45
1:A:472:ILE:HG21	22:L:101:TGL:H202	1.98	0.45
18:N:608:HEA:HBC1	18:N:608:HEA:CMC	2.47	0.45
3:C:92:LEU:O	3:C:95:THR:HB	2.16	0.45
6:S:85:CYS:SG	6:S:87:THR:OG1	2.70	0.45
12:Y:15:VAL:HG12	12:Y:21:LEU:HD22	1.99	0.45
13:Z:23:PHE:O	13:Z:27:LEU:HG	2.16	0.45
1:A:281:GLY:HA3	7:T:4:ALA:HB1	1.99	0.45
2:B:1:FME:HE1	2:B:133:LEU:CD2	2.46	0.45
25:G:101:PEK:C12	25:G:101:PEK:C16	2.94	0.45
1:N:101:SER:O	1:N:156:SER:OG	2.32	0.45
7:T:10:GLY:O	7:T:11:TPO:C	2.65	0.45
3:C:116:TRP:HA	3:C:117:PRO:C	2.40	0.45
1:N:400:PHE:CB	22:N:605:TGL:H283	2.46	0.45
3:P:73:PRO:HB2	20:P:312:SCN:C	2.46	0.45
29:V:101:SAC:HA	29:V:101:SAC:H2A1	1.76	0.45
1:N:445:ASP:O	1:N:448:THR:OG1	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:129:VAL:HG21	3:P:180:GLU:HG3	1.99	0.45
25:P:301:PEK:H032	30:P:405:HOH:O	2.17	0.45
24:T:101:CHD:H12	24:T:101:CHD:H212	1.98	0.45
10:W:50:LEU:O	10:W:54:SER:OG	2.31	0.45
1:A:240:HIS:C	1:A:240:HIS:CD2	2.95	0.45
26:P:313:CDL:OB7	26:P:313:CDL:CB6	2.64	0.45
1:N:242:GLU:HA	1:N:245:ILE:HD12	1.99	0.45
7:T:11:TPO:HG22	7:T:11:TPO:O3P	2.17	0.45
3:C:127:LEU:HD12	3:C:127:LEU:HA	1.79	0.44
4:D:29:HIS:CD2	4:D:65:LYS:HA	2.53	0.44
7:G:5:LYS:HE3	7:G:23:LEU:HD22	1.98	0.44
2:O:86:MET:HA	2:O:89:GLU:HG3	1.99	0.44
24:Y:101:CHD:H20	30:Y:203:HOH:O	2.15	0.44
3:C:125:ASN:OD1	3:C:127:LEU:HB2	2.17	0.44
17:A:604:PGV:H71	17:A:604:PGV:C1	2.48	0.44
3:C:81:TYR:O	3:C:85:LEU:HG	2.17	0.44
1:N:105:LEU:HB2	1:N:106:PRO:HD3	1.99	0.44
6:S:41:GLY:O	6:S:88:HIS:ND1	2.49	0.44
9:V:5:ALA:HB3	30:V:201:HOH:O	2.18	0.44
1:A:8:PHE:CZ	3:C:15:PRO:HB3	2.52	0.44
2:B:78:LEU:N	2:B:79:PRO:HD2	2.32	0.44
7:G:4:ALA:HB3	1:N:282:PHE:N	2.33	0.44
4:Q:18:ASP:HA	30:Q:1701:HOH:O	2.17	0.44
1:A:353:LEU:HB3	2:B:31:VAL:HG22	1.99	0.44
1:A:397:PHE:N	1:A:398:PRO:CD	2.80	0.44
3:C:62:ILE:CD1	26:C:306:CDL:H511	2.47	0.44
4:D:19:ARG:HD3	4:D:21:ASP:OD1	2.17	0.44
4:D:77:GLU:HB3	22:D:201:TGL:HB32	1.99	0.44
7:G:10:GLY:HA2	1:N:177:SER:HB2	1.99	0.44
12:Y:41:ARG:NH1	24:Y:101:CHD:H183	2.32	0.44
1:A:35:LEU:HB3	23:M:101:DMU:H24	1.98	0.44
7:T:6:GLY:HA2	25:T:103:PEK:H382	1.99	0.44
3:C:127:LEU:HD13	26:C:313:CDL:H562	2.00	0.44
5:R:18:TYR:OH	5:R:28:GLU:O	2.20	0.44
3:C:110:PRO:HB3	8:H:30:TRP:CE3	2.53	0.44
26:C:313:CDL:H401	2:O:78:LEU:HD12	2.00	0.44
6:S:81:ARG:HA	6:S:87:THR:O	2.18	0.44
22:N:605:TGL:HG12	22:N:605:TGL:CB2	2.48	0.44
2:O:89:GLU:O	2:O:91:ASN:ND2	2.50	0.44
4:Q:60:TYR:OH	5:R:69:GLU:OE1	2.33	0.44
17:P:307:PGV:H011	30:P:436:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:LEU:HD21	3:C:32:THR:HG21	2.01	0.43
3:C:22:LEU:O	3:C:26:LEU:HG	2.18	0.43
7:G:36:TRP:HB3	30:G:220:HOH:O	2.16	0.43
2:O:102:HIS:HA	2:O:158:ASP:OD2	2.18	0.43
1:A:482:VAL:HG22	13:M:1:ILE:HD11	2.00	0.43
24:Y:101:CHD:H192	24:Y:101:CHD:H3	2.00	0.43
13:Z:11:SER:O	13:Z:12:PRO:C	2.61	0.43
1:A:265:LYS:HB2	1:A:490:THR:HG21	2.00	0.43
4:D:118:LYS:HA	11:K:51:LYS:O	2.18	0.43
4:Q:71:MET:HG3	4:Q:72:ASN:OD1	2.18	0.43
5:R:55:CYS:HB3	5:R:60:ASP:O	2.17	0.43
1:A:44:PRO:HG3	4:D:111:PHE:CZ	2.53	0.43
1:A:178:GLN:HG3	1:A:186:TRP:CZ2	2.53	0.43
1:A:278:MET:SD	7:T:5:LYS:HA	2.58	0.43
18:N:607:HEA:HBC1	18:N:607:HEA:HMC3	1.99	0.43
3:P:149:HIS:O	3:P:153:GLU:HG3	2.19	0.43
18:A:607:HEA:H122	18:A:607:HEA:HHC	1.99	0.43
1:N:62:ALA:HB2	18:N:608:HEA:HBD1	2.01	0.43
3:P:14:SER:HB2	30:P:407:HOH:O	2.17	0.43
4:Q:21:ASP:OD1	4:Q:21:ASP:N	2.48	0.43
12:Y:43:GLN:O	12:Y:47:LYS:HG2	2.17	0.43
1:A:23:GLY:HA3	1:A:73:ILE:HG13	2.00	0.43
7:G:45:PRO:HA	30:G:208:HOH:O	2.18	0.43
6:S:44:GLU:OE2	30:S:2601:HOH:O	2.21	0.43
7:G:72:ASN:OD1	7:G:72:ASN:C	2.61	0.43
1:N:103:TRP:O	1:N:107:PRO:CD	2.67	0.43
3:P:190:ASP:HB3	7:T:53:LEU:HD22	1.99	0.43
25:P:301:PEK:H5	25:P:301:PEK:C23	2.49	0.43
4:Q:19:ARG:CD	30:Q:1708:HOH:O	2.66	0.43
4:Q:43:LYS:O	4:Q:46:ALA:N	2.35	0.43
1:A:28:MET:HG3	12:L:29:PHE:HD1	1.84	0.43
9:I:63:MET:HB3	9:I:68:ILE:HD11	2.00	0.43
1:N:43:GLN:HB2	1:N:44:PRO:HD2	2.01	0.43
22:N:616:TGL:HC22	22:N:616:TGL:CG2	2.41	0.43
2:O:162:SER:HB3	2:O:197:SER:HB2	2.00	0.43
26:P:313:CDL:HB32	26:P:313:CDL:H151	2.01	0.43
5:R:43:PRO:HB2	5:R:48:ILE:HD11	2.01	0.43
5:R:90:ARG:HB3	5:R:91:PRO:HD3	2.01	0.43
1:A:310:MET:HE1	2:B:76:ILE:CG2	2.49	0.42
3:C:73:PRO:HD2	20:C:312:SCN:C	2.49	0.42
11:K:32:MET:HE2	11:K:32:MET:HB3	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:232:GLN:HE22	1:N:295:VAL:HG11	1.84	0.42
1:N:344:PHE:O	1:N:345:ILE:C	2.62	0.42
30:B:401:HOH:O	28:I:101:PSC:H32	2.18	0.42
5:E:82:TYR:N	5:E:83:PRO:CD	2.81	0.42
1:N:467:LEU:O	1:N:471:ILE:HG13	2.19	0.42
24:T:105:CHD:C18	24:T:105:CHD:C22	2.98	0.42
1:A:176:MET:HG3	1:A:180:GLN:HB3	2.01	0.42
2:O:68:LEU:HB2	2:O:69:PRO:HD3	2.02	0.42
2:O:160:LEU:HD21	2:O:175:ILE:HG23	2.00	0.42
7:G:78:LEU:HB3	7:G:79:PRO:HD2	2.00	0.42
1:N:63:PHE:CZ	1:N:126:TRP:HA	2.54	0.42
3:P:63:ARG:HA	3:P:67:PHE:CD2	2.53	0.42
5:R:82:TYR:HB3	5:R:83:PRO:HD3	2.00	0.42
7:T:16:TRP:HZ2	24:T:105:CHD:H162	1.84	0.42
1:A:230:LEU:HD13	3:C:103:HIS:CG	2.54	0.42
2:B:78:LEU:CB	2:B:79:PRO:CD	2.97	0.42
1:N:321:PHE:CZ	28:R:201:PSC:H162	2.54	0.42
2:O:1:FME:SD	2:O:133:LEU:HD13	2.59	0.42
2:O:100:MET:HA	2:O:155:SER:O	2.20	0.42
3:P:228:THR:C	3:P:230:ASN:H	2.27	0.42
6:S:78:GLU:O	6:S:79:ALA:C	2.62	0.42
26:C:313:CDL:H111	26:C:313:CDL:H392	2.02	0.42
1:N:240:HIS:HE1	20:N:614:SCN:C	2.32	0.42
2:O:1:FME:HE3	2:O:2:ALA:O	2.20	0.42
5:R:61:PHE:O	5:R:64:ALA:HB3	2.19	0.42
1:A:127:THR:HB	1:A:129:TYR:CE1	2.55	0.42
5:R:23:ASP:O	5:R:24:ILE:C	2.63	0.42
6:S:92:VAL:O	6:S:94:HIS:N	2.53	0.42
5:E:82:TYR:HB3	5:E:83:PRO:HD3	2.01	0.42
6:S:91:LEU:C	6:S:93:PRO:HD3	2.45	0.42
1:A:129:TYR:CE2	1:A:232:GLN:NE2	2.88	0.42
8:H:27:ARG:HG2	30:H:514:HOH:O	2.19	0.42
1:N:113:LEU:O	1:N:116:SER:OG	2.36	0.42
28:R:201:PSC:H211	28:R:201:PSC:C01	2.49	0.42
2:O:84:LEU:HA	2:O:87:MET:HE2	2.02	0.42
3:P:149:HIS:CE1	24:T:105:CHD:H182	2.55	0.42
4:Q:9:GLU:OE2	6:S:55:LYS:NZ	2.37	0.42
4:Q:124:LEU:O	4:Q:140:TYR:OH	2.30	0.42
1:A:71:MET:HB2	1:A:72:PRO:HD3	2.01	0.41
2:O:10:GLN:HB3	30:O:423:HOH:O	2.20	0.41
2:O:109:GLU:CD	8:U:66:ILE:HD12	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:129:ALA:HB3	4:Q:134:PHE:HB3	2.01	0.41
6:F:64:GLU:O	6:F:65:ASP:HB2	2.20	0.41
3:P:50:ASN:HD22	3:P:54:MET:HE2	1.85	0.41
4:Q:145:TRP:CG	11:X:46:GLY:H	2.38	0.41
24:T:105:CHD:H183	24:T:105:CHD:C22	2.51	0.41
1:N:208:MET:HE2	3:P:97:PHE:HD1	1.81	0.41
22:N:605:TGL:HG12	22:N:605:TGL:HB21	2.02	0.41
6:S:58:VAL:O	6:S:71:TRP:HA	2.20	0.41
3:C:146:TRP:CD2	3:C:162:ALA:HB2	2.55	0.41
2:O:49:LYS:O	4:Q:20:ARG:NH2	2.53	0.41
1:A:310:MET:HE2	1:A:356:ILE:HG23	2.02	0.41
3:P:207:HIS:CD2	3:P:241:TYR:OH	2.73	0.41
5:R:22:PRO:HA	5:R:57:ARG:HE	1.85	0.41
5:R:108:LYS:O	5:R:109:VAL:OXT	2.38	0.41
8:U:35:ASP:O	8:U:36:PHE:C	2.63	0.41
26:C:313:CDL:C87	30:G:202:HOH:O	2.69	0.41
13:M:27:LEU:HD22	23:M:101:DMU:H17	2.02	0.41
1:N:32:ALA:HB3	12:Y:36:PRO:HG2	2.02	0.41
1:N:60:ALA:O	1:N:64:VAL:HG23	2.20	0.41
1:N:243:VAL:HG11	20:N:614:SCN:S	2.61	0.41
25:P:301:PEK:H72	25:P:301:PEK:C26	2.49	0.41
1:A:377:PHE:CD2	18:A:606:HEA:HAD1	2.54	0.41
1:A:383:MET:HG2	1:A:421:VAL:HG21	2.03	0.41
17:A:605:PGV:H21	3:C:57:TRP:CE2	2.55	0.41
2:B:37:LEU:HD12	2:B:37:LEU:HA	1.84	0.41
2:B:78:LEU:HD12	2:B:78:LEU:HA	1.84	0.41
2:O:102:HIS:O	2:O:104:TRP:HA	2.21	0.41
3:C:103:HIS:ND1	24:C:302:CHD:O26	2.39	0.41
8:H:36:PHE:CE1	8:H:57:ARG:HB2	2.55	0.41
12:L:33:PHE:O	12:L:36:PRO:HD2	2.21	0.41
7:T:10:GLY:O	24:T:105:CHD:H42	2.21	0.41
7:T:80:THR:HG23	30:T:210:HOH:O	2.20	0.41
10:W:16:ASN:ND2	10:W:18:LEU:HD12	2.35	0.41
1:A:194:LEU:HD22	1:A:285:PHE:HE2	1.84	0.41
5:E:57:ARG:HG3	5:E:57:ARG:HH11	1.85	0.41
1:N:113:LEU:HD13	22:N:605:TGL:H311	2.03	0.41
2:O:1:FME:HE1	2:O:133:LEU:HD22	2.03	0.41
8:U:49:ASP:O	8:U:52:VAL:HG22	2.21	0.41
1:A:390:MET:HE2	1:A:413:HIS:CE1	2.56	0.41
2:B:200:CYS:SG	2:B:204:HIS:HA	2.61	0.41
10:J:26:ALA:HA	10:J:29:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:223:LEU:HD23	3:P:223:LEU:HA	1.92	0.41
11:X:8:ASP:OD1	11:X:8:ASP:C	2.64	0.41
1:A:5:ARG:O	1:A:9:SER:HB2	2.21	0.40
1:A:450:TRP:HA	1:A:450:TRP:CE3	2.56	0.40
17:A:604:PGV:H22	17:A:604:PGV:H62	2.01	0.40
1:N:150:LEU:O	1:N:151:HIS:C	2.64	0.40
1:N:369:ASP:C	1:N:438:ARG:HG3	2.46	0.40
2:O:60:GLU:HG2	2:O:61:VAL:N	2.36	0.40
3:P:210:ILE:HG12	17:P:306:PGV:H12	2.03	0.40
5:R:85:VAL:HG12	5:R:89:LEU:HD12	2.02	0.40
12:Y:21:LEU:O	12:Y:22:LEU:C	2.64	0.40
8:H:37:HIS:CD2	8:H:76:ARG:CZ	3.04	0.40
1:N:218:THR:O	1:N:226:GLY:HA3	2.22	0.40
1:N:495:LEU:HD12	1:N:495:LEU:HA	1.84	0.40
2:O:98:LYS:NZ	8:U:64:CYS:O	2.54	0.40
2:B:213:LEU:N	2:B:213:LEU:CD2	2.84	0.40
6:F:62:CYS:HB3	6:F:85:CYS:HB3	2.03	0.40
10:W:16:ASN:CG	10:W:18:LEU:HD12	2.47	0.40
1:A:51:ASP:O	1:A:55:ASN:HB2	2.21	0.40
3:C:169:LEU:O	3:C:170:GLY:C	2.64	0.40
6:F:55:LYS:HA	6:F:74:LEU:O	2.20	0.40
6:F:67:SER:HB3	19:F:708:EDO:O1	2.21	0.40
5:R:82:TYR:N	5:R:83:PRO:CD	2.85	0.40
1:A:136:LEU:HD12	1:A:136:LEU:HA	1.93	0.40
2:B:111:THR:HA	2:B:114:GLU:O	2.22	0.40
4:D:16:TYR:CE1	4:D:25:PRO:HG2	2.56	0.40
28:I:101:PSC:H252	28:I:101:PSC:H31	2.02	0.40
1:N:83:VAL:N	1:N:84:PRO:CD	2.85	0.40
1:N:336:PRO:HG2	1:N:394:VAL:HG11	2.02	0.40
4:Q:75:THR:HB	30:X:101:HOH:O	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	512/514 (100%)	488 (95%)	24 (5%)	0	100	100
1	N	512/514 (100%)	487 (95%)	25 (5%)	0	100	100
2	B	225/227 (99%)	216 (96%)	9 (4%)	0	100	100
2	O	225/227 (99%)	216 (96%)	8 (4%)	1 (0%)	30	40
3	C	257/261 (98%)	250 (97%)	7 (3%)	0	100	100
3	P	257/261 (98%)	246 (96%)	11 (4%)	0	100	100
4	D	142/147 (97%)	137 (96%)	5 (4%)	0	100	100
4	Q	142/147 (97%)	132 (93%)	9 (6%)	1 (1%)	18	26
5	E	103/109 (94%)	100 (97%)	3 (3%)	0	100	100
5	R	103/109 (94%)	101 (98%)	2 (2%)	0	100	100
6	F	96/98 (98%)	88 (92%)	7 (7%)	1 (1%)	12	17
6	S	96/98 (98%)	85 (88%)	10 (10%)	1 (1%)	12	17
7	G	81/85 (95%)	72 (89%)	7 (9%)	2 (2%)	4	4
7	T	81/85 (95%)	70 (86%)	8 (10%)	3 (4%)	2	2
8	H	77/85 (91%)	75 (97%)	2 (3%)	0	100	100
8	U	77/85 (91%)	67 (87%)	10 (13%)	0	100	100
9	I	70/73 (96%)	66 (94%)	4 (6%)	0	100	100
9	V	70/73 (96%)	65 (93%)	5 (7%)	0	100	100
10	J	56/59 (95%)	54 (96%)	2 (4%)	0	100	100
10	W	56/59 (95%)	54 (96%)	2 (4%)	0	100	100
11	K	47/56 (84%)	44 (94%)	3 (6%)	0	100	100
11	X	47/56 (84%)	45 (96%)	2 (4%)	0	100	100
12	L	44/47 (94%)	43 (98%)	1 (2%)	0	100	100
12	Y	44/47 (94%)	42 (96%)	2 (4%)	0	100	100
13	M	41/46 (89%)	41 (100%)	0	0	100	100
13	Z	41/46 (89%)	34 (83%)	7 (17%)	0	100	100
All	All	3502/3614 (97%)	3318 (95%)	175 (5%)	9 (0%)	36	48

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
6	F	94	HIS
7	T	5	LYS
7	G	7	ASP
7	T	4	ALA
7	T	7	ASP
6	S	93	PRO
2	O	90	ILE
7	G	4	ALA
4	Q	132	GLN

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	426/426 (100%)	410 (96%)	16 (4%)	29	46
1	N	426/426 (100%)	415 (97%)	11 (3%)	40	60
2	B	210/210 (100%)	199 (95%)	11 (5%)	21	33
2	O	210/210 (100%)	200 (95%)	10 (5%)	23	37
3	C	224/226 (99%)	222 (99%)	2 (1%)	70	84
3	P	224/226 (99%)	216 (96%)	8 (4%)	31	49
4	D	128/129 (99%)	125 (98%)	3 (2%)	44	64
4	Q	128/129 (99%)	126 (98%)	2 (2%)	55	74
5	E	92/95 (97%)	88 (96%)	4 (4%)	26	41
5	R	92/95 (97%)	87 (95%)	5 (5%)	20	32
6	F	81/81 (100%)	74 (91%)	7 (9%)	10	14
6	S	81/81 (100%)	73 (90%)	8 (10%)	7	10
7	G	67/68 (98%)	61 (91%)	6 (9%)	9	13
7	T	67/68 (98%)	61 (91%)	6 (9%)	9	13
8	H	71/75 (95%)	65 (92%)	6 (8%)	10	15
8	U	71/75 (95%)	62 (87%)	9 (13%)	4	5
9	I	57/58 (98%)	53 (93%)	4 (7%)	14	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	V	57/58 (98%)	53 (93%)	4 (7%)	14	21
10	J	49/50 (98%)	45 (92%)	4 (8%)	10	16
10	W	49/50 (98%)	46 (94%)	3 (6%)	17	27
11	K	39/46 (85%)	38 (97%)	1 (3%)	40	60
11	X	39/46 (85%)	39 (100%)	0	100	100
12	L	39/40 (98%)	37 (95%)	2 (5%)	21	34
12	Y	39/40 (98%)	38 (97%)	1 (3%)	40	60
13	M	37/38 (97%)	34 (92%)	3 (8%)	11	16
13	Z	37/38 (97%)	36 (97%)	1 (3%)	39	59
All	All	3040/3084 (99%)	2903 (96%)	137 (4%)	24	39

All (137) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	53	ILE
1	A	115	SER
1	A	118	VAL
1	A	128	VAL
1	A	136	LEU
1	A	152	LEU
1	A	180	GLN
1	A	189	MET
1	A	194	LEU
1	A	278	MET
1	A	298	ASP
1	A	361	SER
1	A	369	ASP
1	A	407	ASP
1	A	470	PHE
1	A	486	ASP
2	B	16	ILE
2	B	19	GLU
2	B	33	LEU
2	B	60	GLU
2	B	67	ILE
2	B	75	LEU
2	B	78	LEU
2	B	91	ASN
2	B	94	SER

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Mol	Chain	Res	Type
2	B	130	PRO
2	B	167	SER
3	C	77	LYS
3	C	127	LEU
4	D	40	LEU
4	D	51	LEU
4	D	147	LYS
5	E	14	ARG
5	E	70	VAL
5	E	93	LEU
5	E	104	LEU
6	F	40	SER
6	F	48	LEU
6	F	53	THR
6	F	87	THR
6	F	95	GLN
6	F	96	LEU
6	F	98	HIS
7	G	8	HIS
7	G	33	LEU
7	G	34	ASN
7	G	35	SER
7	G	38	HIS
7	G	84	LYS
8	H	7	LYS
8	H	8	ILE
8	H	50	VAL
8	H	60	TYR
8	H	61	LYS
8	H	84	LYS
9	I	2	THR
9	I	27	VAL
9	I	33	THR
9	I	37	PHE
10	J	4	ARG
10	J	27	THR
10	J	50	LEU
10	J	58	LYS
11	K	23	THR
12	L	2	HIS
12	L	47	LYS
13	M	13	LYS

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Mol	Chain	Res	Type
13	M	34	LEU
13	M	41	LYS
1	N	38	ARG
1	N	117	MET
1	N	128	VAL
1	N	138	HIS
1	N	333	LYS
1	N	361	SER
1	N	369	ASP
1	N	453	ILE
1	N	484	THR
1	N	485	VAL
1	N	512	ASN
2	O	37	LEU
2	O	60	GLU
2	O	75	LEU
2	O	78	LEU
2	O	86	MET
2	O	91	ASN
2	O	167	SER
2	O	183	THR
2	O	217	LYS
2	O	225	SER
3	P	32	THR
3	P	33	MET
3	P	77	LYS
3	P	127	LEU
3	P	128	GLU
3	P	129	VAL
3	P	159	MET
3	P	245	VAL
4	Q	21	ASP
4	Q	58	GLU
5	R	14	ARG
5	R	23	ASP
5	R	24	ILE
5	R	25	ASP
5	R	108	LYS
6	S	21	MET
6	S	25	ARG
6	S	43	LYS
6	S	48	LEU

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Mol	Chain	Res	Type
6	S	54	ASN
6	S	76	LYS
6	S	87	THR
6	S	94	HIS
7	T	2	SER
7	T	5	LYS
7	T	8	HIS
7	T	38	HIS
7	T	78	LEU
7	T	84	LYS
9	V	2	THR
9	V	18	ARG
9	V	22	VAL
9	V	44	LYS
10	W	27	THR
10	W	36	MET
10	W	50	LEU
12	Y	27	LEU
13	Z	34	LEU
8	U	7	LYS
8	U	9	LYS
8	U	21	PRO
8	U	44	THR
8	U	46	LYS
8	U	60	TYR
8	U	61	LYS
8	U	67	SER
8	U	84	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (55) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	180	GLN
2	B	24	HIS
2	B	91	ASN
2	B	181	GLN
2	B	195	GLN
3	C	3	HIS
3	C	68	GLN
3	C	76	GLN
3	C	161	GLN
3	C	230	ASN

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Mol	Chain	Res	Type
4	D	29	HIS
4	D	32	ASN
4	D	109	HIS
4	D	119	GLN
5	E	78	HIS
5	E	94	ASN
6	F	28	GLN
7	G	8	HIS
7	G	38	HIS
7	G	71	HIS
7	G	76	ASN
8	H	22	ASN
8	H	31	GLN
8	H	32	ASN
10	J	13	GLN
10	J	29	ASN
10	J	57	HIS
11	K	35	GLN
13	M	39	ASN
1	N	43	GLN
1	N	55	ASN
1	N	232	GLN
1	N	422	ASN
1	N	491	ASN
1	N	512	ASN
2	O	24	HIS
2	O	91	ASN
2	O	195	GLN
3	P	50	ASN
3	P	70	HIS
3	P	161	GLN
4	Q	37	GLN
4	Q	101	HIS
4	Q	109	HIS
5	R	94	ASN
6	S	28	GLN
6	S	54	ASN
7	T	66	ASN
7	T	76	ASN
9	V	20	HIS
9	V	70	GLN
10	W	13	GLN

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Mol	Chain	Res	Type
10	W	57	HIS
8	U	22	ASN
11	X	35	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
7	TPO	T	11	7	8,10,11	0.93	0	10,14,16	0.61	0
7	TPO	G	11	7	8,10,11	0.94	1 (12%)	10,14,16	0.80	0
1	FME	N	1	1	8,9,10	0.55	0	8,9,11	0.79	0
2	FME	O	1	2	8,9,10	0.44	0	8,9,11	0.66	0
1	FME	A	1	1	8,9,10	0.46	0	8,9,11	0.96	1 (12%)
2	FME	B	1	2	8,9,10	0.56	0	8,9,11	0.95	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
7	TPO	T	11	7	-	5/9/11/13	-
7	TPO	G	11	7	-	6/9/11/13	-
1	FME	N	1	1	-	3/7/9/11	-
2	FME	O	1	2	-	2/7/9/11	-
1	FME	A	1	1	-	1/7/9/11	-
2	FME	B	1	2	-	1/7/9/11	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	11	TPO	P-OG1	2.03	1.63	1.59

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1	FME	O-C-CA	-2.05	119.50	124.77

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	G	11	TPO	N-CA-CB-OG1
7	G	11	TPO	C-CA-CB-CG2
7	G	11	TPO	O-C-CA-CB
7	G	11	TPO	CA-CB-OG1-P
1	N	1	FME	N-CA-CB-CG
1	N	1	FME	C-CA-CB-CG
7	T	11	TPO	N-CA-CB-CG2
7	T	11	TPO	N-CA-CB-OG1
7	T	11	TPO	C-CA-CB-CG2
7	T	11	TPO	O-C-CA-CB
7	T	11	TPO	CG2-CB-OG1-P
2	O	1	FME	CB-CG-SD-CE
2	B	1	FME	CB-CG-SD-CE
1	N	1	FME	CA-CB-CG-SD
2	O	1	FME	N-CA-CB-CG
7	G	11	TPO	N-CA-CB-CG2
1	A	1	FME	CA-CB-CG-SD
7	G	11	TPO	CG2-CB-OG1-P

There are no ring outliers.

4 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	T	11	TPO	3	0
7	G	11	TPO	2	0
2	O	1	FME	3	0
2	B	1	FME	3	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 153 ligands modelled in this entry, 8 are monoatomic - leaving 145 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$
19	EDO	B	310	-	3,3,3	0.08	0	2,2,2	0.10	0
28	PSC	I	101	-	51,51,51	0.30	0	57,59,59	0.34	0
24	CHD	C	307	-	32,32,32	0.54	0	51,51,51	0.80	1 (1%)
19	EDO	F	701	-	3,3,3	0.12	0	2,2,2	0.13	0
25	PEK	C	303	-	52,52,52	0.36	0	55,57,57	0.48	0
18	HEA	A	606	1,20	67,67,67	2.42	25 (37%)	81,103,103	2.30	29 (35%)
19	EDO	E	205	-	3,3,3	0.08	0	2,2,2	0.23	0
19	EDO	D	203	-	3,3,3	0.09	0	2,2,2	0.23	0
24	CHD	T	105	-	32,32,32	0.66	0	51,51,51	1.11	4 (7%)
24	CHD	Y	101	-	32,32,32	0.62	0	51,51,51	0.86	1 (1%)
19	EDO	A	608	-	3,3,3	0.41	0	2,2,2	0.44	0
23	DMU	M	101	-	34,34,34	0.61	0	45,45,45	2.14	12 (26%)
19	EDO	F	703	-	3,3,3	0.18	0	2,2,2	0.27	0
19	EDO	B	307	-	3,3,3	0.23	0	2,2,2	0.22	0
25	PEK	G	101	-	52,52,52	0.32	0	55,57,57	0.54	0
22	TGL	N	616	-	62,62,62	0.32	0	65,65,65	0.37	0
22	TGL	N	604	-	62,62,62	0.34	0	65,65,65	0.50	1 (1%)
17	PGV	C	304	-	50,50,50	0.33	0	53,56,56	0.54	0
19	EDO	A	609	-	3,3,3	0.24	0	2,2,2	0.23	0
19	EDO	M	103	-	3,3,3	0.08	0	2,2,2	0.11	0
24	CHD	P	309	-	32,32,32	0.61	0	51,51,51	0.84	2 (3%)
26	CDL	P	308	-	99,99,99	0.36	0	105,111,111	0.49	0
19	EDO	N	609	-	3,3,3	0.25	0	2,2,2	0.38	0
19	EDO	O	303	-	3,3,3	0.10	0	2,2,2	0.18	0
28	PSC	R	201	-	51,51,51	0.33	0	57,59,59	0.46	0
20	SCN	N	614	18,14	1,2,2	0.22	0	0,1,1	-	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
17	PGV	A	604	-	50,50,50	0.42	0	53,56,56	1.15	4 (7%)
19	EDO	D	204	-	3,3,3	0.30	0	2,2,2	0.32	0
21	CUA	B	301	2	0,1,1	-	-	-		
19	EDO	K	902	-	3,3,3	0.17	0	2,2,2	0.30	0
19	EDO	I	103	-	3,3,3	0.13	0	2,2,2	0.12	0
19	EDO	T	106	-	3,3,3	0.16	0	2,2,2	0.19	0
26	CDL	C	306	-	99,99,99	0.38	0	105,111,111	0.60	2 (1%)
19	EDO	F	707	-	3,3,3	0.24	0	2,2,2	0.44	0
19	EDO	V	102	-	3,3,3	0.11	0	2,2,2	0.14	0
23	DMU	C	314	-	34,34,34	0.54	0	45,45,45	2.18	8 (17%)
24	CHD	P	304	-	32,32,32	0.60	1 (3%)	51,51,51	0.71	1 (1%)
24	CHD	T	101	-	32,32,32	0.62	0	51,51,51	0.99	1 (1%)
19	EDO	E	201	-	3,3,3	0.14	0	2,2,2	0.19	0
19	EDO	C	308	-	3,3,3	0.21	0	2,2,2	0.47	0
19	EDO	Q	1602	-	3,3,3	0.06	0	2,2,2	0.12	0
24	CHD	C	302	-	32,32,32	0.59	0	51,51,51	0.70	0
24	CHD	J	101	-	32,32,32	0.57	0	51,51,51	0.75	0
19	EDO	N	618	-	3,3,3	0.07	0	2,2,2	0.19	0
19	EDO	P	311	-	3,3,3	0.21	0	2,2,2	0.31	0
19	EDO	S	2509	-	3,3,3	0.09	0	2,2,2	0.19	0
23	DMU	G	103	-	34,34,34	0.94	1 (2%)	45,45,45	1.87	12 (26%)
24	CHD	W	302	-	32,32,32	0.66	0	51,51,51	0.88	0
19	EDO	C	315	-	3,3,3	0.73	0	2,2,2	0.72	0
25	PEK	T	102	-	52,52,52	0.30	0	55,57,57	0.61	0
19	EDO	A	611	-	3,3,3	0.27	0	2,2,2	0.32	0
19	EDO	V	103	-	3,3,3	0.12	0	2,2,2	0.18	0
19	EDO	J	102	-	3,3,3	0.08	0	2,2,2	0.05	0
19	EDO	W	303	-	3,3,3	0.06	0	2,2,2	0.20	0
19	EDO	S	2503	-	3,3,3	0.24	0	2,2,2	0.29	0
19	EDO	D	202	-	3,3,3	0.12	0	2,2,2	0.31	0
19	EDO	Q	1601	-	3,3,3	0.13	0	2,2,2	0.21	0
23	DMU	P	303	-	34,34,34	0.40	0	45,45,45	0.73	0
19	EDO	N	610	-	3,3,3	0.49	0	2,2,2	0.53	0
23	DMU	Z	101	-	34,34,34	0.68	1 (2%)	45,45,45	1.77	6 (13%)
24	CHD	G	107	-	32,32,32	0.64	0	51,51,51	1.11	4 (7%)
29	SAC	V	101	-	7,8,9	0.50	0	7,9,11	1.36	1 (14%)
19	EDO	W	301	-	3,3,3	0.16	0	2,2,2	0.16	0
26	CDL	P	313	-	99,99,99	0.36	0	105,111,111	0.41	0
19	EDO	W	304	-	3,3,3	0.09	0	2,2,2	0.22	0
18	HEA	A	607	1	67,67,67	2.30	26 (38%)	81,103,103	2.54	35 (43%)
19	EDO	A	612	-	3,3,3	0.30	0	2,2,2	0.39	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	TGL	B	302	-	62,62,62	0.42	0	65,65,65	0.93	2 (3%)
25	PEK	T	103	-	52,52,52	0.43	0	55,57,57	0.79	1 (1%)
19	EDO	P	302	-	3,3,3	0.12	0	2,2,2	0.16	0
18	HEA	N	607	1,20	67,67,67	2.33	25 (37%)	81,103,103	2.51	28 (34%)
19	EDO	N	612	-	3,3,3	0.13	0	2,2,2	0.14	0
22	TGL	N	605	-	62,62,62	0.31	0	65,65,65	0.79	2 (3%)
19	EDO	A	613	-	3,3,3	0.13	0	2,2,2	0.27	0
22	TGL	L	101	-	62,62,62	0.34	0	65,65,65	0.56	2 (3%)
19	EDO	J	104	-	3,3,3	0.15	0	2,2,2	0.09	0
17	PGV	P	307	-	50,50,50	0.37	0	53,56,56	0.45	0
19	EDO	S	2508	-	3,3,3	0.11	0	2,2,2	0.26	0
19	EDO	A	618	-	3,3,3	0.17	0	2,2,2	0.31	0
19	EDO	U	1501	-	3,3,3	0.10	0	2,2,2	0.09	0
19	EDO	S	2506	-	3,3,3	0.09	0	2,2,2	0.10	0
19	EDO	A	615	-	3,3,3	0.09	0	2,2,2	0.23	0
19	EDO	N	615	-	3,3,3	0.12	0	2,2,2	0.21	0
19	EDO	A	616	-	3,3,3	0.25	0	2,2,2	0.29	0
19	EDO	Q	1603	-	3,3,3	0.16	0	2,2,2	0.23	0
19	EDO	M	102	-	3,3,3	0.07	0	2,2,2	0.07	0
19	EDO	F	705	-	3,3,3	0.10	0	2,2,2	0.25	0
19	EDO	I	104	-	3,3,3	0.07	0	2,2,2	0.04	0
19	EDO	C	309	-	3,3,3	0.17	0	2,2,2	0.25	0
19	EDO	B	308	-	3,3,3	0.26	0	2,2,2	0.31	0
19	EDO	B	303	-	3,3,3	0.17	0	2,2,2	0.26	0
19	EDO	N	613	-	3,3,3	0.43	0	2,2,2	0.44	0
19	EDO	V	104	-	3,3,3	0.09	0	2,2,2	0.19	0
19	EDO	K	901	-	3,3,3	0.06	0	2,2,2	0.08	0
19	EDO	G	106	-	3,3,3	0.19	0	2,2,2	0.23	0
19	EDO	S	2507	-	3,3,3	0.17	0	2,2,2	0.40	0
19	EDO	B	304	-	3,3,3	0.37	0	2,2,2	0.45	0
19	EDO	S	2505	-	3,3,3	0.06	0	2,2,2	0.17	0
19	EDO	A	610	-	3,3,3	0.20	0	2,2,2	0.30	0
19	EDO	F	706	-	3,3,3	0.17	0	2,2,2	0.19	0
19	EDO	F	704	-	3,3,3	0.12	0	2,2,2	0.12	0
20	SCN	A	614	18,14	1,2,2	0.24	0	0,1,1	-	-
19	EDO	B	305	-	3,3,3	0.14	0	2,2,2	0.11	0
17	PGV	N	606	-	50,50,50	0.32	0	53,56,56	0.40	0
19	EDO	G	105	-	3,3,3	0.10	0	2,2,2	0.13	0
19	EDO	O	302	-	3,3,3	0.14	0	2,2,2	0.19	0
19	EDO	J	103	-	3,3,3	0.24	0	2,2,2	0.31	0
20	SCN	P	312	-	1,2,2	1.08	0	0,1,1	-	-
26	CDL	C	313	-	99,99,99	0.47	0	105,111,111	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	EDO	E	203	-	3,3,3	0.06	0	2,2,2	0.10	0
19	EDO	S	2504	-	3,3,3	0.22	0	2,2,2	0.25	0
21	CUA	O	301	2	0,1,1	-	-	-		
19	EDO	G	102	-	3,3,3	0.15	0	2,2,2	0.28	0
19	EDO	L	103	-	3,3,3	0.09	0	2,2,2	0.21	0
18	HEA	N	608	1	67,67,67	2.33	28 (41%)	81,103,103	2.56	30 (37%)
19	EDO	N	619	-	3,3,3	0.15	0	2,2,2	0.29	0
17	PGV	N	620	-	50,50,50	0.40	0	53,56,56	0.53	0
19	EDO	G	104	-	3,3,3	0.11	0	2,2,2	0.06	0
19	EDO	G	108	-	3,3,3	0.15	0	2,2,2	0.27	0
25	PEK	P	301	-	52,52,52	0.38	0	55,57,57	0.82	1 (1%)
19	EDO	N	611	-	3,3,3	0.27	0	2,2,2	0.46	0
17	PGV	P	306	-	50,50,50	0.29	0	53,56,56	0.41	0
25	PEK	P	305	-	52,52,52	0.38	0	55,57,57	0.98	3 (5%)
19	EDO	F	708	-	3,3,3	0.18	0	2,2,2	0.24	0
19	EDO	B	306	-	3,3,3	0.14	0	2,2,2	0.12	0
29	SAC	I	102	-	7,8,9	0.49	0	7,9,11	1.35	1 (14%)
19	EDO	E	202	-	3,3,3	0.22	0	2,2,2	0.27	0
19	EDO	C	311	-	3,3,3	0.24	0	2,2,2	0.26	0
19	EDO	R	202	-	3,3,3	0.21	0	2,2,2	0.48	0
17	PGV	A	605	-	50,50,50	0.36	0	53,56,56	0.40	0
19	EDO	E	204	-	3,3,3	0.13	0	2,2,2	0.24	0
23	DMU	C	301	-	34,34,34	0.56	0	45,45,45	2.15	10 (22%)
19	EDO	N	617	-	3,3,3	0.16	0	2,2,2	0.14	0
19	EDO	C	310	-	3,3,3	0.06	0	2,2,2	0.05	0
20	SCN	C	312	-	1,2,2	0.48	0	0,1,1	-	-
19	EDO	T	104	-	3,3,3	0.24	0	2,2,2	0.35	0
19	EDO	R	203	-	3,3,3	0.06	0	2,2,2	0.12	0
19	EDO	B	309	-	3,3,3	0.28	0	2,2,2	0.35	0
22	TGL	D	201	-	62,62,62	0.31	0	65,65,65	0.38	0
19	EDO	A	617	-	3,3,3	0.31	0	2,2,2	0.36	0
19	EDO	P	310	-	3,3,3	0.09	0	2,2,2	0.12	0
19	EDO	P	314	-	3,3,3	0.29	0	2,2,2	0.36	0
19	EDO	L	102	-	3,3,3	0.19	0	2,2,2	0.22	0
17	PGV	C	305	-	50,50,50	0.44	0	53,56,56	0.68	1 (1%)
19	EDO	S	2501	-	3,3,3	0.08	0	2,2,2	0.18	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
19	EDO	B	310	-	-	1/1/1/1	-
28	PSC	I	101	-	-	19/55/55/55	-
24	CHD	C	307	-	-	3/9/74/74	0/4/4/4
19	EDO	F	701	-	-	0/1/1/1	-
25	PEK	C	303	-	-	24/56/56/56	-
18	HEA	A	606	1,20	-	7/36/76/76	-
19	EDO	E	205	-	-	1/1/1/1	-
19	EDO	D	203	-	-	1/1/1/1	-
24	CHD	T	105	-	-	7/9/74/74	0/4/4/4
24	CHD	Y	101	-	-	1/9/74/74	0/4/4/4
19	EDO	A	608	-	-	1/1/1/1	-
23	DMU	M	101	-	2/2/10/10	6/19/59/59	0/2/2/2
19	EDO	F	703	-	-	1/1/1/1	-
19	EDO	B	307	-	-	1/1/1/1	-
25	PEK	G	101	-	-	21/56/56/56	-
22	TGL	N	616	-	-	33/65/65/65	-
22	TGL	N	604	-	-	28/65/65/65	-
17	PGV	C	304	-	-	16/55/55/55	-
19	EDO	A	609	-	-	1/1/1/1	-
19	EDO	M	103	-	-	1/1/1/1	-
24	CHD	P	309	-	-	3/9/74/74	0/4/4/4
26	CDL	P	308	-	-	60/110/110/110	-
19	EDO	N	609	-	-	1/1/1/1	-
19	EDO	O	303	-	-	0/1/1/1	-
28	PSC	R	201	-	-	26/55/55/55	-
17	PGV	A	604	-	-	29/55/55/55	-
19	EDO	D	204	-	-	1/1/1/1	-
19	EDO	K	902	-	-	1/1/1/1	-
19	EDO	I	103	-	-	0/1/1/1	-
19	EDO	T	106	-	-	0/1/1/1	-
26	CDL	C	306	-	-	53/110/110/110	-
19	EDO	F	707	-	-	1/1/1/1	-
19	EDO	V	102	-	-	1/1/1/1	-
23	DMU	C	314	-	2/2/10/10	11/19/59/59	0/2/2/2
24	CHD	P	304	-	-	0/9/74/74	0/4/4/4
24	CHD	T	101	-	-	4/9/74/74	0/4/4/4
19	EDO	E	201	-	-	0/1/1/1	-
19	EDO	C	308	-	-	0/1/1/1	-
19	EDO	Q	1602	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	CHD	C	302	-	-	2/9/74/74	0/4/4/4
24	CHD	J	101	-	-	3/9/74/74	0/4/4/4
19	EDO	N	618	-	-	1/1/1/1	-
19	EDO	P	311	-	-	0/1/1/1	-
19	EDO	S	2509	-	-	0/1/1/1	-
23	DMU	G	103	-	1/1/10/10	12/19/59/59	0/2/2/2
24	CHD	W	302	-	-	2/9/74/74	0/4/4/4
19	EDO	C	315	-	-	0/1/1/1	-
25	PEK	T	102	-	-	18/56/56/56	-
19	EDO	A	611	-	-	1/1/1/1	-
19	EDO	V	103	-	-	1/1/1/1	-
19	EDO	J	102	-	-	0/1/1/1	-
19	EDO	W	303	-	-	0/1/1/1	-
19	EDO	S	2503	-	-	1/1/1/1	-
19	EDO	D	202	-	-	0/1/1/1	-
23	DMU	P	303	-	2/2/10/10	8/19/59/59	0/2/2/2
19	EDO	Q	1601	-	-	1/1/1/1	-
19	EDO	N	610	-	-	1/1/1/1	-
23	DMU	Z	101	-	1/1/10/10	8/19/59/59	0/2/2/2
24	CHD	G	107	-	-	3/9/74/74	0/4/4/4
29	SAC	V	101	-	-	4/7/8/10	-
19	EDO	W	301	-	-	0/1/1/1	-
26	CDL	P	313	-	-	50/110/110/110	-
19	EDO	W	304	-	-	0/1/1/1	-
18	HEA	A	607	1	-	4/36/76/76	-
19	EDO	A	612	-	-	0/1/1/1	-
22	TGL	B	302	-	-	38/65/65/65	-
25	PEK	T	103	-	-	22/56/56/56	-
19	EDO	P	302	-	-	1/1/1/1	-
18	HEA	N	607	1,20	-	7/36/76/76	-
19	EDO	N	612	-	-	1/1/1/1	-
22	TGL	N	605	-	-	34/65/65/65	-
19	EDO	A	613	-	-	1/1/1/1	-
22	TGL	L	101	-	-	32/65/65/65	-
19	EDO	J	104	-	-	0/1/1/1	-
17	PGV	P	307	-	-	32/55/55/55	-
19	EDO	S	2508	-	-	1/1/1/1	-
19	EDO	A	618	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	EDO	U	1501	-	-	1/1/1/1	-
19	EDO	S	2506	-	-	0/1/1/1	-
19	EDO	A	615	-	-	0/1/1/1	-
19	EDO	N	615	-	-	1/1/1/1	-
19	EDO	A	616	-	-	1/1/1/1	-
19	EDO	Q	1603	-	-	1/1/1/1	-
19	EDO	M	102	-	-	1/1/1/1	-
19	EDO	F	705	-	-	0/1/1/1	-
19	EDO	I	104	-	-	1/1/1/1	-
19	EDO	C	309	-	-	1/1/1/1	-
19	EDO	B	308	-	-	0/1/1/1	-
19	EDO	B	303	-	-	1/1/1/1	-
19	EDO	N	613	-	-	1/1/1/1	-
19	EDO	V	104	-	-	1/1/1/1	-
19	EDO	K	901	-	-	0/1/1/1	-
19	EDO	G	106	-	-	1/1/1/1	-
19	EDO	S	2507	-	-	1/1/1/1	-
19	EDO	B	304	-	-	1/1/1/1	-
19	EDO	S	2505	-	-	1/1/1/1	-
19	EDO	A	610	-	-	1/1/1/1	-
19	EDO	F	706	-	-	1/1/1/1	-
19	EDO	F	704	-	-	0/1/1/1	-
19	EDO	B	305	-	-	0/1/1/1	-
17	PGV	N	606	-	-	19/55/55/55	-
19	EDO	G	105	-	-	1/1/1/1	-
19	EDO	O	302	-	-	0/1/1/1	-
19	EDO	J	103	-	-	1/1/1/1	-
26	CDL	C	313	-	-	49/110/110/110	-
19	EDO	E	203	-	-	0/1/1/1	-
19	EDO	S	2504	-	-	1/1/1/1	-
19	EDO	G	102	-	-	0/1/1/1	-
19	EDO	L	103	-	-	0/1/1/1	-
18	HEA	N	608	1	-	8/36/76/76	-
19	EDO	N	619	-	-	1/1/1/1	-
17	PGV	N	620	-	-	32/55/55/55	-
19	EDO	G	104	-	-	1/1/1/1	-
19	EDO	G	108	-	-	1/1/1/1	-
25	PEK	P	301	-	-	25/56/56/56	-
19	EDO	N	611	-	-	1/1/1/1	-
17	PGV	P	306	-	-	15/55/55/55	-
25	PEK	P	305	-	-	27/56/56/56	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	EDO	F	708	-	-	1/1/1/1	-
19	EDO	B	306	-	-	1/1/1/1	-
29	SAC	I	102	-	-	2/7/8/10	-
19	EDO	E	202	-	-	1/1/1/1	-
19	EDO	C	311	-	-	0/1/1/1	-
19	EDO	R	202	-	-	1/1/1/1	-
17	PGV	A	605	-	-	20/55/55/55	-
19	EDO	E	204	-	-	1/1/1/1	-
23	DMU	C	301	-	2/2/10/10	12/19/59/59	0/2/2/2
19	EDO	N	617	-	-	0/1/1/1	-
19	EDO	C	310	-	-	1/1/1/1	-
19	EDO	T	104	-	-	1/1/1/1	-
19	EDO	R	203	-	-	1/1/1/1	-
19	EDO	B	309	-	-	1/1/1/1	-
22	TGL	D	201	-	-	32/65/65/65	-
19	EDO	A	617	-	-	1/1/1/1	-
19	EDO	P	310	-	-	1/1/1/1	-
19	EDO	P	314	-	-	1/1/1/1	-
19	EDO	L	102	-	-	1/1/1/1	-
17	PGV	C	305	-	-	25/55/55/55	-
19	EDO	S	2501	-	-	1/1/1/1	-

All (107) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	N	607	HEA	C3A-C2A	5.57	1.49	1.37
18	A	606	HEA	CHC-C4B	5.47	1.49	1.38
18	N	607	HEA	C3B-C2B	5.42	1.47	1.34
18	N	608	HEA	C3D-C2D	5.36	1.48	1.36
18	N	607	HEA	FE-NB	5.35	2.11	1.94
18	N	607	HEA	C3D-C2D	5.10	1.47	1.36
18	N	608	HEA	FE-NB	5.03	2.10	1.94
18	A	606	HEA	FE-NC	5.02	2.11	1.95
18	A	606	HEA	FE-NB	5.02	2.10	1.94
18	N	608	HEA	C3A-C2A	4.95	1.48	1.37
18	A	606	HEA	CHD-C1D	4.93	1.48	1.38
18	N	608	HEA	FE-NC	4.84	2.11	1.95
18	A	607	HEA	C1D-ND	-4.74	1.32	1.40
18	A	607	HEA	C3B-C2B	4.68	1.45	1.34
18	A	607	HEA	FE-NC	4.64	2.10	1.95
18	A	606	HEA	C3B-C2B	4.62	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	A	606	HEA	FE-ND	4.61	2.09	1.94
18	A	606	HEA	C3D-C2D	4.55	1.46	1.36
18	A	607	HEA	C3D-C2D	4.55	1.46	1.36
18	N	608	HEA	FE-ND	4.53	2.08	1.94
18	A	607	HEA	C3A-C2A	4.39	1.47	1.37
18	A	607	HEA	FE-NB	4.36	2.08	1.94
18	N	607	HEA	FE-ND	4.34	2.08	1.94
18	A	607	HEA	CHC-C4B	4.33	1.47	1.38
18	A	606	HEA	CHC-C1C	4.30	1.49	1.39
18	N	608	HEA	C3B-C2B	4.25	1.44	1.34
18	A	607	HEA	FE-ND	4.24	2.08	1.94
18	A	607	HEA	C1B-NB	-4.22	1.30	1.38
18	N	608	HEA	C11-C3B	-4.10	1.46	1.51
18	N	607	HEA	CHD-C1D	4.03	1.46	1.38
18	N	607	HEA	FE-NC	4.01	2.08	1.95
18	N	608	HEA	CHD-C1D	4.00	1.46	1.38
18	N	608	HEA	CHA-C1A	3.96	1.46	1.38
18	A	606	HEA	C1D-ND	-3.93	1.33	1.40
18	N	607	HEA	C1D-ND	-3.90	1.33	1.40
18	N	607	HEA	CHC-C4B	3.90	1.46	1.38
18	N	607	HEA	CHD-C4C	3.90	1.48	1.39
18	A	607	HEA	C11-C3B	-3.83	1.46	1.51
18	A	606	HEA	CHD-C4C	3.78	1.47	1.39
23	G	103	DMU	O16-C6	3.73	1.46	1.40
18	N	608	HEA	CHC-C4B	3.69	1.45	1.38
18	A	606	HEA	CHB-C1B	3.68	1.47	1.39
18	A	607	HEA	CHD-C1D	3.62	1.45	1.38
18	A	606	HEA	CHA-C4D	3.58	1.47	1.39
18	A	607	HEA	CHC-C1C	3.51	1.47	1.39
18	A	606	HEA	CHA-C1A	3.48	1.45	1.38
18	A	606	HEA	C1B-NB	-3.48	1.32	1.38
18	N	607	HEA	C1A-NA	3.47	1.46	1.39
18	A	606	HEA	C3A-C2A	3.46	1.45	1.37
18	N	608	HEA	C1A-NA	3.40	1.46	1.39
18	N	608	HEA	CHD-C4C	3.39	1.47	1.39
18	A	607	HEA	CHD-C4C	3.38	1.47	1.39
18	A	607	HEA	CHA-C1A	3.33	1.44	1.38
18	N	607	HEA	C1B-NB	-3.28	1.32	1.38
18	N	607	HEA	CHC-C1C	3.28	1.46	1.39
18	N	607	HEA	CHA-C4D	3.27	1.46	1.39
18	A	606	HEA	C1A-NA	3.24	1.45	1.39
18	A	606	HEA	CHB-C4A	3.21	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	A	606	HEA	C4B-NB	-3.16	1.34	1.40
18	N	608	HEA	CHA-C4D	3.15	1.46	1.39
18	A	607	HEA	C4C-NC	-3.14	1.33	1.39
18	N	607	HEA	C4C-NC	-3.11	1.33	1.39
18	N	608	HEA	CHB-C4A	3.06	1.44	1.38
18	A	606	HEA	C4A-NA	3.02	1.45	1.39
18	N	608	HEA	C1C-C2C	2.90	1.49	1.43
18	N	608	HEA	C4A-NA	2.86	1.45	1.39
18	A	607	HEA	C1A-NA	2.85	1.45	1.39
18	N	608	HEA	C1A-C2A	2.80	1.50	1.45
18	A	606	HEA	FE-NA	2.79	2.04	1.95
18	A	606	HEA	C1C-NC	-2.79	1.34	1.39
18	A	606	HEA	C1C-C2C	2.78	1.49	1.43
18	N	607	HEA	CHA-C1A	2.77	1.43	1.38
18	N	608	HEA	CHB-C1B	2.76	1.45	1.39
18	A	607	HEA	C1A-C2A	2.70	1.49	1.45
18	A	607	HEA	C1C-C2C	2.68	1.49	1.43
18	A	607	HEA	C4B-NB	-2.68	1.35	1.40
18	N	607	HEA	CHB-C4A	2.65	1.43	1.38
18	N	608	HEA	C4D-ND	-2.65	1.33	1.38
18	A	607	HEA	CHA-C4D	2.64	1.45	1.39
18	A	607	HEA	CHB-C1B	2.61	1.45	1.39
18	N	608	HEA	C1B-NB	-2.60	1.33	1.38
18	N	608	HEA	C1D-ND	-2.60	1.35	1.40
18	A	606	HEA	C4C-NC	-2.60	1.34	1.39
18	N	607	HEA	C1C-C2C	2.58	1.49	1.43
18	N	608	HEA	CHC-C1C	2.54	1.45	1.39
18	N	608	HEA	C4B-NB	-2.51	1.35	1.40
18	A	607	HEA	C1C-NC	-2.51	1.34	1.39
18	N	607	HEA	C4B-NB	-2.51	1.35	1.40
18	A	607	HEA	CHB-C4A	2.49	1.43	1.38
18	N	607	HEA	CHB-C1B	2.48	1.44	1.39
18	N	608	HEA	C1C-NC	-2.48	1.35	1.39
18	N	608	HEA	C4B-C3B	2.44	1.49	1.44
23	Z	101	DMU	O16-C6	2.44	1.44	1.40
18	N	607	HEA	C1C-NC	-2.32	1.35	1.39
18	A	607	HEA	C4A-NA	2.31	1.44	1.39
18	N	607	HEA	CMA-C3A	2.30	1.50	1.45
18	A	606	HEA	C4B-C3B	2.27	1.48	1.44
18	N	607	HEA	C11-C3B	-2.25	1.48	1.51
18	A	607	HEA	FE-NA	2.21	2.02	1.95
18	A	607	HEA	C4B-C3B	2.20	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	N	607	HEA	C4B-C3B	2.20	1.48	1.44
18	N	608	HEA	C4C-NC	-2.13	1.35	1.39
18	A	606	HEA	C1A-C2A	2.11	1.48	1.45
18	N	608	HEA	O1A-CGA	2.05	1.28	1.22
18	N	607	HEA	C3A-C4A	2.03	1.49	1.46
18	N	608	HEA	C3C-C4C	2.01	1.48	1.42
24	P	304	CHD	O26-C24	-2.01	1.24	1.30

All (205) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	314	DMU	O16-C6-C1	10.04	123.52	108.27
23	C	301	DMU	O16-C6-C1	8.58	121.30	108.27
23	Z	101	DMU	O5-C6-C1	7.24	125.24	110.37
23	M	101	DMU	O16-C6-C1	6.89	118.73	108.27
18	N	608	HEA	C3C-C4C-NC	6.67	115.42	109.80
18	N	607	HEA	C3D-C4D-ND	6.49	116.62	110.35
18	N	607	HEA	C3B-C4B-NB	6.42	117.22	109.84
18	A	607	HEA	C2B-C1B-NB	6.28	117.17	109.90
18	N	607	HEA	C3C-C2C-C1C	-6.21	99.85	107.17
22	B	302	TGL	OG2-CB1-CB2	6.05	124.56	111.48
18	N	608	HEA	C3C-C2C-C1C	-6.01	100.08	107.17
18	A	607	HEA	C3C-C4C-NC	5.99	114.84	109.80
18	N	607	HEA	C2B-C1B-NB	5.96	116.80	109.90
18	N	608	HEA	C13-C12-C11	-5.86	105.04	114.39
18	A	606	HEA	C3C-C4C-NC	5.75	114.64	109.80
18	A	607	HEA	C3D-C4D-ND	5.63	115.79	110.35
18	N	607	HEA	C2D-C1D-ND	5.61	116.29	109.84
23	C	314	DMU	O5-C6-C1	5.53	121.74	110.37
18	N	607	HEA	C3A-C2A-C1A	-5.51	101.83	107.05
18	A	607	HEA	O11-C11-C3B	-5.50	101.17	111.26
18	A	606	HEA	C2B-C1B-NB	5.48	116.23	109.90
18	N	608	HEA	C1D-C2D-C3D	-5.44	101.26	106.98
23	C	301	DMU	O5-C6-C1	5.32	121.29	110.37
18	N	608	HEA	C3A-C2A-C1A	-5.29	102.04	107.05
18	N	608	HEA	C2D-C1D-ND	5.25	115.88	109.84
18	A	607	HEA	C2D-C1D-ND	5.23	115.85	109.84
22	N	605	TGL	OG2-CB1-CB2	5.19	122.71	111.48
23	Z	101	DMU	O5-C6-O16	5.10	122.10	110.04
18	N	608	HEA	C2C-C1C-NC	5.09	118.30	110.14
23	M	101	DMU	O5-C6-C1	5.06	120.77	110.37
18	A	606	HEA	C2A-C1A-NA	5.02	115.17	110.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	N	607	HEA	C3C-C4C-NC	5.02	114.03	109.80
18	A	607	HEA	C3C-C2C-C1C	-5.01	101.27	107.17
18	N	607	HEA	C2A-C1A-NA	4.90	115.05	110.32
23	G	103	DMU	O16-C6-C1	4.87	115.66	108.27
18	A	607	HEA	C2A-C1A-NA	4.86	115.02	110.32
25	P	305	PEK	O01-C1-C2	4.85	121.97	111.48
18	N	608	HEA	C3B-C4B-NB	4.84	115.41	109.84
18	N	608	HEA	C27-C19-C20	4.72	123.43	115.23
18	A	607	HEA	C3A-C2A-C1A	-4.70	102.60	107.05
18	A	606	HEA	C3C-C2C-C1C	-4.64	101.70	107.17
23	G	103	DMU	O5-C6-O16	4.64	121.00	110.04
18	A	606	HEA	C3A-C2A-C1A	-4.61	102.68	107.05
18	N	607	HEA	C1D-C2D-C3D	-4.47	102.28	106.98
17	A	604	PGV	O01-C1-C2	-4.46	101.83	111.48
18	A	606	HEA	CHA-C1A-NA	-4.44	119.62	124.45
23	M	101	DMU	O5-C6-O16	4.42	120.49	110.04
18	N	608	HEA	C2A-C1A-NA	4.42	114.59	110.32
18	N	608	HEA	C2B-C1B-NB	4.35	114.93	109.90
25	P	301	PEK	O01-C1-C2	4.30	120.77	111.48
18	A	607	HEA	C3B-C4B-NB	4.29	114.77	109.84
23	C	314	DMU	C6-O5-C4	4.25	122.02	113.72
18	A	607	HEA	CHA-C1A-NA	-4.25	119.83	124.45
18	N	608	HEA	C3D-C4D-ND	4.22	114.43	110.35
18	N	608	HEA	CMC-C2C-C1C	4.21	131.83	125.42
18	N	607	HEA	C2C-C1C-NC	4.21	116.88	110.14
18	A	606	HEA	C3B-C4B-NB	4.20	114.67	109.84
25	T	103	PEK	O01-C1-C2	4.17	120.50	111.48
18	N	607	HEA	CHA-C4D-C3D	-4.17	118.69	124.77
18	A	606	HEA	C2D-C1D-ND	4.14	114.60	109.84
18	A	606	HEA	C3D-C4D-ND	4.07	114.29	110.35
23	C	301	DMU	C18-O16-C6	-4.01	106.82	113.68
18	N	607	HEA	C4B-C3B-C2B	-3.99	100.73	107.44
18	N	608	HEA	CHA-C1A-NA	-3.97	120.13	124.45
23	M	101	DMU	C18-O16-C6	3.97	120.45	113.68
23	C	301	DMU	O5-C4-C3	3.94	117.88	109.72
18	A	607	HEA	CHB-C1B-C2B	-3.92	118.83	125.03
18	A	606	HEA	C4A-NA-C1A	-3.90	99.46	105.82
18	A	606	HEA	C1D-C2D-C3D	-3.88	102.90	106.98
18	A	607	HEA	C4D-C3D-C2D	-3.79	101.38	106.89
23	G	103	DMU	O5-C6-C1	3.76	118.09	110.37
23	G	103	DMU	O5-C4-C57	3.75	115.74	106.44
23	M	101	DMU	C6-O5-C4	3.74	121.02	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	301	DMU	C10-O1-C9	3.72	120.98	113.72
17	A	604	PGV	O01-C1-O02	3.71	132.38	123.70
18	A	607	HEA	C26-C15-C16	3.70	121.65	115.23
18	A	607	HEA	C1B-C2B-C3B	-3.64	102.58	106.80
18	A	607	HEA	C17-C18-C19	-3.64	119.30	127.62
18	N	608	HEA	C4B-C3B-C2B	-3.62	101.35	107.44
18	A	606	HEA	CHA-C4D-C3D	-3.62	119.50	124.77
18	A	607	HEA	CHA-C4D-C3D	-3.61	119.50	124.77
18	N	607	HEA	CAD-C3D-C2D	3.60	134.60	127.87
17	A	604	PGV	C02-O01-C1	3.57	126.35	117.80
23	C	301	DMU	C2-C3-C4	3.56	118.81	110.93
18	A	606	HEA	CHB-C1B-C2B	-3.52	119.47	125.03
18	A	607	HEA	C4A-NA-C1A	-3.47	100.16	105.82
18	A	606	HEA	CAD-CBD-CGD	-3.44	104.53	113.67
25	P	305	PEK	O01-C1-O02	-3.44	115.67	123.70
29	I	102	SAC	O-C-CA	-3.40	116.02	124.77
18	N	607	HEA	C4D-C3D-C2D	-3.40	101.94	106.89
18	A	607	HEA	C1D-C2D-C3D	-3.38	103.43	106.98
17	A	604	PGV	O01-C02-C01	3.34	120.32	108.34
18	A	607	HEA	CHB-C4A-NA	-3.31	120.85	124.45
18	A	606	HEA	C1B-C2B-C3B	-3.28	103.00	106.80
18	N	608	HEA	C26-C15-C16	3.25	120.87	115.23
23	C	314	DMU	C18-O16-C6	-3.23	108.16	113.68
23	M	101	DMU	C8-C7-C5	3.22	116.49	110.83
23	C	314	DMU	C2-C3-C4	3.17	117.95	110.93
23	M	101	DMU	C10-C5-C7	3.14	116.62	110.01
18	A	607	HEA	C4B-C3B-C2B	-3.14	102.16	107.44
18	N	607	HEA	C1B-C2B-C3B	-3.13	103.17	106.80
23	C	301	DMU	O5-C6-O16	3.11	117.39	110.04
18	A	606	HEA	C4B-C3B-C2B	-3.07	102.27	107.44
18	A	606	HEA	C13-C12-C11	-3.07	109.49	114.39
26	C	306	CDL	OA6-CA5-C11	3.07	118.11	111.48
23	M	101	DMU	O55-C2-C1	-3.04	103.21	110.38
29	V	101	SAC	O-C-CA	-3.03	116.99	124.77
23	C	301	DMU	C6-O5-C4	3.01	119.59	113.72
18	N	607	HEA	CHC-C1C-C2C	-3.01	118.70	127.43
18	A	606	HEA	O1A-CGA-CBA	-2.97	113.66	123.09
23	G	103	DMU	O2-C8-C7	-2.94	103.46	110.38
18	A	607	HEA	C2C-C1C-NC	2.93	114.84	110.14
22	L	101	TGL	OG2-CB1-CB2	2.84	117.63	111.48
18	N	607	HEA	C27-C19-C20	2.84	120.15	115.23
18	A	606	HEA	CAA-C2A-C1A	2.83	130.60	124.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	N	608	HEA	C4C-NC-C1C	-2.82	101.22	105.82
23	C	314	DMU	C1-C2-C3	2.81	116.07	109.68
18	A	606	HEA	CMC-C2C-C1C	2.81	129.69	125.42
18	A	606	HEA	C2C-C1C-NC	2.80	114.64	110.14
18	A	606	HEA	CMD-C2D-C1D	2.75	129.33	125.03
18	N	608	HEA	CAA-C2A-C1A	2.75	130.44	124.85
18	N	608	HEA	CHC-C1C-C2C	-2.74	119.46	127.43
18	A	607	HEA	C16-C15-C14	-2.71	115.08	121.17
18	N	608	HEA	CHD-C1D-C2D	-2.67	119.35	126.95
18	A	607	HEA	C25-C23-C24	2.67	120.73	114.59
23	M	101	DMU	O1-C10-C5	2.67	115.86	110.37
24	G	107	CHD	C10-C9-C8	-2.67	108.86	111.84
18	A	607	HEA	CAD-C3D-C4D	2.67	129.35	124.70
18	N	608	HEA	C4A-NA-C1A	-2.66	101.49	105.82
18	N	608	HEA	CHB-C1B-C2B	-2.65	120.84	125.03
18	N	607	HEA	C4B-NB-C1B	-2.65	102.07	105.21
24	T	105	CHD	C13-C17-C20	2.62	122.66	119.48
23	M	101	DMU	O3-C5-C7	2.62	116.55	110.38
23	G	103	DMU	O4-C7-C5	2.61	116.53	110.38
18	N	608	HEA	CMD-C2D-C3D	2.60	133.17	126.15
18	N	607	HEA	CHB-C1B-C2B	-2.59	120.94	125.03
22	B	302	TGL	OB1-CB1-CB2	-2.58	113.68	123.78
18	N	607	HEA	CHB-C4A-NA	-2.55	121.68	124.45
17	C	305	PGV	O01-C1-C2	2.55	116.99	111.48
18	A	606	HEA	C27-C19-C20	2.54	119.64	115.23
18	N	607	HEA	CMC-C2C-C1C	2.54	129.28	125.42
24	G	107	CHD	C15-C14-C13	2.51	105.97	103.54
24	T	105	CHD	C22-C23-C24	2.50	119.17	112.49
24	T	105	CHD	C15-C14-C13	2.50	105.97	103.54
23	G	103	DMU	O7-C10-C5	2.49	114.22	108.09
23	Z	101	DMU	O5-C4-C3	2.49	114.86	109.72
18	A	606	HEA	O2A-CGA-CBA	2.47	121.80	114.00
18	N	608	HEA	CAA-CBA-CGA	-2.47	107.12	113.67
18	N	607	HEA	CAD-CBD-CGD	-2.47	107.12	113.67
23	G	103	DMU	O1-C10-C5	-2.46	105.31	110.37
23	C	301	DMU	O1-C9-C8	2.45	114.12	109.70
22	N	604	TGL	OG2-CB1-CB2	2.45	116.78	111.48
18	N	607	HEA	C4A-NA-C1A	-2.44	101.84	105.82
23	G	103	DMU	O1-C9-C8	2.43	114.08	109.70
18	N	607	HEA	C20-C19-C18	-2.43	115.72	121.17
23	Z	101	DMU	O55-C2-C1	-2.42	104.66	110.38
18	A	607	HEA	CMC-C2C-C3C	2.42	132.24	126.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	Y	101	CHD	C22-C23-C24	2.42	118.93	112.49
23	C	314	DMU	O5-C4-C3	2.38	114.65	109.72
18	A	607	HEA	C4C-C3C-C2C	-2.38	104.34	107.30
24	T	105	CHD	C16-C17-C13	-2.35	101.26	103.54
18	A	607	HEA	CAA-CBA-CGA	-2.34	107.45	113.67
24	C	307	CHD	C4-C5-C10	2.34	115.15	112.66
22	N	605	TGL	OG2-CB1-OB1	-2.33	118.27	123.70
22	L	101	TGL	OG2-CG2-CG3	2.31	116.64	108.34
23	M	101	DMU	O7-C10-C5	-2.31	102.41	108.09
18	N	608	HEA	CBA-CAA-C2A	2.29	118.87	112.53
18	A	607	HEA	CMB-C2B-C1B	2.29	128.61	125.03
23	Z	101	DMU	C10-O1-C9	2.29	118.19	113.72
23	G	103	DMU	O2-C8-C9	2.28	114.95	109.32
18	A	607	HEA	O11-C11-C12	2.28	115.19	109.14
18	A	606	HEA	C4D-C3D-C2D	-2.28	103.58	106.89
25	P	305	PEK	C02-O01-C1	2.27	123.23	117.80
18	A	606	HEA	CMB-C2B-C1B	2.26	128.57	125.03
23	M	101	DMU	C7-C8-C9	2.22	114.25	110.23
23	Z	101	DMU	C6-O5-C4	2.20	118.02	113.72
24	G	107	CHD	C9-C11-C12	2.20	117.17	114.29
24	T	101	CHD	C1-C2-C3	2.19	113.38	110.48
18	N	608	HEA	C17-C18-C19	-2.19	122.61	127.62
18	N	607	HEA	CHA-C1A-C2A	-2.19	121.41	124.86
23	C	301	DMU	O55-C2-C1	-2.16	105.27	110.38
18	N	608	HEA	C13-C14-C15	-2.16	122.68	127.62
18	N	608	HEA	O1A-CGA-CBA	-2.14	116.29	123.09
18	N	607	HEA	O1D-CGD-CBD	-2.14	116.29	123.09
18	A	607	HEA	C13-C12-C11	-2.14	110.97	114.39
23	G	103	DMU	C7-C8-C9	2.13	114.09	110.23
18	N	608	HEA	C21-C22-C23	-2.13	120.56	127.64
24	P	309	CHD	C10-C9-C8	2.12	114.20	111.84
18	A	607	HEA	CHD-C1D-C2D	-2.11	120.94	126.95
18	A	606	HEA	O1D-CGD-CBD	-2.11	116.39	123.09
18	A	606	HEA	C20-C19-C18	-2.10	116.45	121.17
23	G	103	DMU	C18-O16-C6	-2.09	110.10	113.68
18	N	607	HEA	CHC-C4B-C3B	-2.09	120.52	125.80
23	C	314	DMU	O1-C10-C5	-2.07	106.13	110.37
18	A	607	HEA	C27-C19-C20	2.06	118.80	115.23
18	A	607	HEA	CMD-C2D-C1D	2.05	128.24	125.03
18	A	607	HEA	C24-C23-C22	-2.04	116.52	122.66
24	P	309	CHD	C1-C2-C3	2.03	113.17	110.48
24	P	304	CHD	C16-C17-C13	-2.02	101.59	103.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	G	107	CHD	O25-C24-C23	-2.01	116.71	123.09
18	A	606	HEA	CHD-C1D-C2D	-2.01	121.24	126.95
18	N	608	HEA	C4D-C3D-C2D	-2.01	103.97	106.89
18	N	607	HEA	CHB-C1B-NB	-2.00	122.27	124.42
26	C	306	CDL	OB6-CB5-C51	2.00	115.82	111.48
18	A	607	HEA	O1A-CGA-CBA	-2.00	116.74	123.09

All (10) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
23	C	301	DMU	C6
23	C	301	DMU	C5
23	C	314	DMU	C6
23	C	314	DMU	C5
23	G	103	DMU	C5
23	M	101	DMU	C6
23	M	101	DMU	C5
23	P	303	DMU	C6
23	P	303	DMU	C5
23	Z	101	DMU	C5

All (956) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
17	A	604	PGV	C03-O11-P-O12
17	A	604	PGV	C04-O12-P-O11
17	A	604	PGV	C04-O12-P-O13
17	A	604	PGV	C04-O12-P-O14
17	A	604	PGV	C02-C03-O11-P
17	A	604	PGV	O05-C05-C06-O06
17	A	604	PGV	O04-C19-O03-C01
17	A	604	PGV	C20-C19-O03-C01
17	A	605	PGV	C04-O12-P-O13
17	C	304	PGV	C12-C13-C14-C15
17	C	305	PGV	C03-O11-P-O14
17	C	305	PGV	C04-O12-P-O11
17	C	305	PGV	C02-C03-O11-P
17	N	620	PGV	C03-O11-P-O12
17	N	620	PGV	C03-O11-P-O14
17	N	620	PGV	C04-O12-P-O13
17	N	620	PGV	O12-C04-C05-C06
17	N	620	PGV	C05-C04-O12-P

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Mol	Chain	Res	Type	Atoms
17	P	306	PGV	C04-O12-P-O14
17	P	306	PGV	C04-C05-C06-O06
17	P	307	PGV	C03-O11-P-O12
17	P	307	PGV	C03-O11-P-O14
17	P	307	PGV	C04-O12-P-O11
17	P	307	PGV	C04-O12-P-O13
17	P	307	PGV	C04-C05-C06-O06
18	A	606	HEA	C2A-C3A-CMA-OMA
18	N	607	HEA	C2D-C3D-CAD-CBD
18	N	608	HEA	C12-C11-C3B-C2B
22	D	201	TGL	CC2-CC1-OG3-CG3
22	D	201	TGL	OC1-CC1-OG3-CG3
22	N	605	TGL	CB2-CB1-OG2-CG2
22	N	605	TGL	OB1-CB1-OG2-CG2
23	C	301	DMU	C1-C6-O16-C18
23	M	101	DMU	O5-C6-O16-C18
23	M	101	DMU	C19-C18-O16-C6
23	Z	101	DMU	C1-C6-O16-C18
25	C	303	PEK	C04-O12-P-O14
25	G	101	PEK	C12-C13-C14-C15
25	P	301	PEK	C03-O11-P-O12
25	P	301	PEK	C03-O11-P-O13
25	P	301	PEK	C04-O12-P-O11
25	P	301	PEK	C04-O12-P-O14
25	P	301	PEK	C02-C03-O11-P
25	P	301	PEK	O02-C1-O01-C02
25	P	301	PEK	C2-C1-O01-C02
25	P	305	PEK	C03-O11-P-O12
25	P	305	PEK	C03-O11-P-O14
25	P	305	PEK	O01-C02-C03-O11
25	P	305	PEK	O12-C04-C05-N
25	P	305	PEK	O02-C1-O01-C02
25	P	305	PEK	C2-C1-O01-C02
25	T	103	PEK	C03-O11-P-O14
25	T	103	PEK	C04-O12-P-O11
25	T	103	PEK	C04-O12-P-O13
25	T	103	PEK	O12-C04-C05-N
25	T	103	PEK	C12-C13-C14-C15
26	C	306	CDL	CA2-C1-CB2-OB2
26	C	306	CDL	C1-CA2-OA2-PA1
26	C	306	CDL	CA3-OA5-PA1-OA2
26	C	306	CDL	OA7-CA5-OA6-CA4

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Mol	Chain	Res	Type	Atoms
26	C	306	CDL	C11-CA5-OA6-CA4
26	C	306	CDL	CB3-OB5-PB2-OB2
26	C	313	CDL	CA2-C1-CB2-OB2
26	C	313	CDL	CA3-OA5-PA1-OA2
26	C	313	CDL	CA3-OA5-PA1-OA3
26	C	313	CDL	CA3-OA5-PA1-OA4
26	C	313	CDL	OA5-CA3-CA4-OA6
26	C	313	CDL	CB3-OB5-PB2-OB3
26	P	308	CDL	CA3-OA5-PA1-OA2
26	P	308	CDL	CA3-OA5-PA1-OA3
26	P	308	CDL	CA3-OA5-PA1-OA4
26	P	308	CDL	CB2-OB2-PB2-OB3
26	P	308	CDL	CB2-OB2-PB2-OB4
26	P	313	CDL	CB2-OB2-PB2-OB5
26	P	313	CDL	CB3-OB5-PB2-OB3
28	I	101	PSC	C04-O12-P-O11
28	R	201	PSC	C03-O11-P-O12
28	R	201	PSC	C03-O11-P-O13
28	R	201	PSC	C04-O12-P-O14
28	R	201	PSC	O12-C04-C05-N
28	R	201	PSC	O04-C19-O03-C01
28	R	201	PSC	C20-C19-O03-C01
29	I	102	SAC	N-CA-CB-OG
29	I	102	SAC	C-CA-CB-OG
29	V	101	SAC	C-CA-CB-OG
22	N	604	TGL	OC1-CC1-OG3-CG3
22	N	616	TGL	OC1-CC1-OG3-CG3
23	G	103	DMU	C5-C10-O7-C3
22	N	604	TGL	CC2-CC1-OG3-CG3
22	N	616	TGL	CC2-CC1-OG3-CG3
18	N	608	HEA	C27-C19-C20-C21
17	N	620	PGV	C1-C2-C3-C4
18	N	607	HEA	C4D-C3D-CAD-CBD
17	N	620	PGV	O12-C04-C05-O05
26	C	313	CDL	O1-C1-CB2-OB2
26	P	313	CDL	O1-C1-CA2-OA2
23	G	103	DMU	O5-C4-C57-O61
17	N	620	PGV	C2-C1-O01-C02
22	N	605	TGL	CG2-CG1-OG1-CA1
25	C	303	PEK	C15-C16-C17-C18
23	C	301	DMU	O6-C11-C9-O1
18	A	607	HEA	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
18	N	608	HEA	C18-C19-C20-C21
18	A	607	HEA	C19-C20-C21-C22
23	C	314	DMU	O6-C11-C9-O1
23	G	103	DMU	C3-C4-C57-O61
26	P	313	CDL	CA7-C31-C32-C33
24	W	302	CHD	C17-C20-C22-C23
17	A	605	PGV	C26-C27-C28-C29
22	N	604	TGL	C24-C25-C26-C27
18	N	607	HEA	C1A-C2A-CAA-CBA
17	N	620	PGV	O02-C1-O01-C02
28	R	201	PSC	C21-C22-C23-C24
23	C	314	DMU	O5-C4-C57-O61
17	A	604	PGV	C4-C5-C6-C7
22	N	605	TGL	C20-C21-C22-C23
17	N	620	PGV	C3-C4-C5-C6
18	A	607	HEA	C26-C15-C16-C17
23	C	301	DMU	O6-C11-C9-C8
24	Y	101	CHD	C21-C20-C22-C23
17	P	306	PGV	O12-C04-C05-O05
26	C	306	CDL	O1-C1-CB2-OB2
23	C	314	DMU	O6-C11-C9-C8
26	P	308	CDL	CA7-C31-C32-C33
23	P	303	DMU	O5-C4-C57-O61
24	T	101	CHD	C17-C20-C22-C23
25	P	305	PEK	C21-C22-C23-C24
22	D	201	TGL	CC2-CC3-CC4-CC5
29	V	101	SAC	C2A-C1A-N-CA
29	V	101	SAC	OAC-C1A-N-CA
26	P	308	CDL	CA5-C11-C12-C13
24	T	105	CHD	C17-C20-C22-C23
22	B	302	TGL	C10-C11-C12-C13
24	W	302	CHD	C21-C20-C22-C23
25	C	303	PEK	C21-C22-C23-C24
23	C	301	DMU	O5-C4-C57-O61
17	A	604	PGV	C19-C20-C21-C22
22	D	201	TGL	CA1-CA2-CA3-CA4
25	G	101	PEK	C1-C2-C3-C4
26	C	313	CDL	CA7-C31-C32-C33
22	N	604	TGL	CC1-CC2-CC3-CC4
25	T	102	PEK	C1-C2-C3-C4
23	C	314	DMU	O5-C6-O16-C18
22	B	302	TGL	C11-C10-CB9-CB8

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Mol	Chain	Res	Type	Atoms
26	P	308	CDL	O1-C1-CA2-OA2
17	P	306	PGV	C1-C2-C3-C4
25	T	103	PEK	C1-C2-C3-C4
23	G	103	DMU	O16-C18-C19-C22
23	Z	101	DMU	O16-C18-C19-C22
22	L	101	TGL	CB1-CB2-CB3-CB4
17	C	305	PGV	C3-C4-C5-C6
25	P	301	PEK	C17-C18-C19-C20
25	P	305	PEK	C1-C2-C3-C4
24	T	105	CHD	C21-C20-C22-C23
26	P	313	CDL	CB2-C1-CA2-OA2
23	C	301	DMU	C3-C4-C57-O61
23	G	103	DMU	O6-C11-C9-O1
22	L	101	TGL	CB2-CB1-OG2-CG2
22	L	101	TGL	OB1-CB1-OG2-CG2
26	C	313	CDL	CA5-C11-C12-C13
26	P	308	CDL	C1-CA2-OA2-PA1
17	A	604	PGV	C04-C05-C06-O06
17	A	604	PGV	C01-C02-O01-C1
26	P	313	CDL	CB6-CB4-OB6-CB5
24	T	105	CHD	C13-C17-C20-C22
22	D	201	TGL	CB2-CB1-OG2-CG2
22	N	605	TGL	CC5-CC6-CC7-CC8
23	C	314	DMU	C31-C34-C37-C40
26	C	306	CDL	C76-C77-C78-C79
26	P	308	CDL	C57-C58-C59-C60
26	P	308	CDL	C82-C83-C84-C85
22	D	201	TGL	CB4-CB5-CB6-CB7
22	D	201	TGL	CA9-C20-C21-C22
22	N	604	TGL	C10-C11-C12-C13
22	N	604	TGL	C13-C14-C29-C30
25	P	301	PEK	C23-C24-C25-C26
25	T	103	PEK	C24-C25-C26-C27
26	C	306	CDL	C52-C53-C54-C55
26	C	313	CDL	C52-C53-C54-C55
26	P	308	CDL	C17-C18-C19-C20
17	N	620	PGV	C6-C7-C8-C9
22	D	201	TGL	C12-C13-C14-C29
22	N	616	TGL	C18-C19-C33-C34
17	N	620	PGV	C27-C28-C29-C30
22	D	201	TGL	CC5-CC6-CC7-CC8
22	D	201	TGL	CC7-CC8-CC9-C15

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Mol	Chain	Res	Type	Atoms
22	L	101	TGL	CB2-CB3-CB4-CB5
22	N	616	TGL	CB3-CB4-CB5-CB6
25	G	101	PEK	C24-C25-C26-C27
26	C	306	CDL	C11-C12-C13-C14
26	P	313	CDL	C55-C56-C57-C58
17	P	306	PGV	O05-C05-C06-O06
22	D	201	TGL	C21-C20-CA9-CA8
22	L	101	TGL	CC6-CC7-CC8-CC9
23	G	103	DMU	C19-C22-C25-C28
26	P	313	CDL	C11-C12-C13-C14
24	T	105	CHD	C13-C17-C20-C21
17	A	605	PGV	C5-C6-C7-C8
17	N	620	PGV	C24-C25-C26-C27
22	L	101	TGL	CC7-CC8-CC9-C15
22	N	616	TGL	CC9-C15-C16-C17
22	N	616	TGL	C24-C25-C26-C27
26	P	313	CDL	C78-C79-C80-C81
26	P	308	CDL	C52-C53-C54-C55
28	R	201	PSC	C24-C25-C26-C27
26	C	313	CDL	C31-C32-C33-C34
26	C	313	CDL	C34-C35-C36-C37
17	N	606	PGV	C30-C31-C32-C33
22	B	302	TGL	CB3-CB4-CB5-CB6
26	P	308	CDL	C39-C40-C41-C42
26	P	308	CDL	C43-C44-C45-C46
17	N	620	PGV	C21-C22-C23-C24
22	B	302	TGL	C21-C20-CA9-CA8
22	B	302	TGL	CC9-C15-C16-C17
22	L	101	TGL	CB6-CB7-CB8-CB9
25	P	301	PEK	C30-C31-C32-C33
25	T	102	PEK	C30-C31-C32-C33
26	P	308	CDL	C12-C13-C14-C15
17	A	605	PGV	C6-C7-C8-C9
26	C	306	CDL	C35-C36-C37-C38
25	P	305	PEK	C16-C17-C18-C19
17	A	604	PGV	C1-C2-C3-C4
22	B	302	TGL	C12-C13-C14-C29
22	D	201	TGL	CA6-CA7-CA8-CA9
26	P	313	CDL	C12-C13-C14-C15
26	P	313	CDL	C72-C73-C74-C75
22	D	201	TGL	OB1-CB1-OG2-CG2
17	P	306	PGV	C25-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
22	N	616	TGL	C20-C21-C22-C23
17	C	305	PGV	C7-C8-C9-C10
17	N	620	PGV	C20-C21-C22-C23
22	N	605	TGL	CB7-CB8-CB9-C10
22	N	616	TGL	CA6-CA7-CA8-CA9
25	G	101	PEK	C31-C32-C33-C34
26	C	306	CDL	C37-C38-C39-C40
22	N	604	TGL	CB1-CB2-CB3-CB4
22	N	616	TGL	CB1-CB2-CB3-CB4
17	A	605	PGV	C14-C15-C16-C17
22	N	604	TGL	CA2-CA3-CA4-CA5
25	C	303	PEK	C25-C26-C27-C28
26	C	306	CDL	C14-C15-C16-C17
26	C	306	CDL	C73-C74-C75-C76
26	C	313	CDL	C36-C37-C38-C39
26	P	308	CDL	C77-C78-C79-C80
26	P	313	CDL	C71-C72-C73-C74
22	B	302	TGL	CA5-CA6-CA7-CA8
19	C	309	EDO	O1-C1-C2-O2
19	G	104	EDO	O1-C1-C2-O2
19	N	609	EDO	O1-C1-C2-O2
19	N	615	EDO	O1-C1-C2-O2
19	Q	1603	EDO	O1-C1-C2-O2
19	S	2504	EDO	O1-C1-C2-O2
19	V	104	EDO	O1-C1-C2-O2
26	C	313	CDL	C56-C57-C58-C59
28	I	101	PSC	C2-C3-C4-C5
23	C	301	DMU	C18-C19-C22-C25
17	N	606	PGV	C4-C5-C6-C7
25	T	102	PEK	C24-C25-C26-C27
22	L	101	TGL	CB7-CB8-CB9-C10
26	P	308	CDL	C22-C23-C24-C25
26	P	313	CDL	C53-C54-C55-C56
17	N	620	PGV	C13-C14-C15-C16
22	B	302	TGL	C16-C15-CC9-CC8
22	N	604	TGL	C21-C22-C23-C24
22	N	616	TGL	C13-C14-C29-C30
22	B	302	TGL	C21-C22-C23-C24
22	D	201	TGL	C18-C19-C33-C34
22	N	604	TGL	CA9-C20-C21-C22
22	N	605	TGL	CB2-CB3-CB4-CB5
26	C	306	CDL	C56-C57-C58-C59

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Mol	Chain	Res	Type	Atoms
22	N	604	TGL	CA4-CA5-CA6-CA7
22	N	604	TGL	CA7-CA8-CA9-C20
22	N	604	TGL	C20-C21-C22-C23
26	C	306	CDL	C72-C73-C74-C75
26	C	313	CDL	C22-C23-C24-C25
26	C	313	CDL	C23-C24-C25-C26
26	C	313	CDL	C76-C77-C78-C79
26	P	308	CDL	C78-C79-C80-C81
22	D	201	TGL	C13-C14-C29-C30
22	D	201	TGL	C23-C24-C25-C26
22	N	605	TGL	CB5-CB6-CB7-CB8
25	C	303	PEK	C29-C30-C31-C32
17	C	304	PGV	C25-C26-C27-C28
22	N	605	TGL	CB9-C10-C11-C12
22	N	604	TGL	CC5-CC6-CC7-CC8
25	G	101	PEK	C22-C23-C24-C25
22	N	605	TGL	CA1-CA2-CA3-CA4
26	C	313	CDL	C31-CA7-OA8-CA6
17	C	305	PGV	C24-C25-C26-C27
26	P	308	CDL	C61-C62-C63-C64
26	C	306	CDL	C41-C42-C43-C44
26	P	313	CDL	C35-C36-C37-C38
23	Z	101	DMU	O5-C6-O16-C18
22	L	101	TGL	C10-C11-C12-C13
25	P	305	PEK	C31-C32-C33-C34
26	P	313	CDL	C31-C32-C33-C34
23	G	103	DMU	C1-C6-O16-C18
22	L	101	TGL	C14-C29-C30-C31
26	P	308	CDL	C81-C82-C83-C84
26	P	313	CDL	CA5-C11-C12-C13
17	A	604	PGV	C21-C22-C23-C24
22	N	604	TGL	C16-C15-CC9-CC8
17	C	305	PGV	C26-C27-C28-C29
26	C	313	CDL	C73-C74-C75-C76
23	C	314	DMU	C18-C19-C22-C25
25	T	103	PEK	C2-C1-O01-C02
26	C	306	CDL	C51-CB5-OB6-CB4
17	A	605	PGV	C19-C20-C21-C22
22	N	604	TGL	CB3-CB4-CB5-CB6
22	N	605	TGL	C10-C11-C12-C13
26	C	313	CDL	C59-C60-C61-C62
28	R	201	PSC	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
17	N	620	PGV	C15-C16-C17-C18
17	C	305	PGV	C27-C28-C29-C30
26	C	313	CDL	C55-C56-C57-C58
22	B	302	TGL	CA4-CA5-CA6-CA7
17	A	605	PGV	C4-C5-C6-C7
17	N	620	PGV	C7-C8-C9-C10
22	B	302	TGL	CC7-CC8-CC9-C15
22	N	605	TGL	CA3-CA4-CA5-CA6
26	C	306	CDL	C62-C63-C64-C65
28	I	101	PSC	C4-C5-C6-C7
22	N	604	TGL	CB5-CB6-CB7-CB8
22	N	616	TGL	C16-C15-CC9-CC8
25	G	101	PEK	C23-C24-C25-C26
26	P	308	CDL	C36-C37-C38-C39
22	L	101	TGL	C18-C19-C33-C34
17	A	604	PGV	C24-C25-C26-C27
26	P	308	CDL	C62-C63-C64-C65
26	P	313	CDL	C18-C19-C20-C21
17	P	307	PGV	C2-C1-O01-C02
25	P	301	PEK	C28-C29-C30-C31
22	B	302	TGL	CC4-CC5-CC6-CC7
22	B	302	TGL	C17-C18-C19-C33
26	C	313	CDL	C19-C20-C21-C22
17	A	605	PGV	C11-C10-C9-C8
17	C	305	PGV	C11-C10-C9-C8
17	N	606	PGV	C11-C10-C9-C8
22	B	302	TGL	OG1-CG1-CG2-OG2
17	N	606	PGV	C29-C30-C31-C32
26	C	306	CDL	C23-C24-C25-C26
17	C	305	PGV	C22-C23-C24-C25
25	C	303	PEK	C22-C23-C24-C25
28	I	101	PSC	C24-C25-C26-C27
22	N	604	TGL	CB9-C10-C11-C12
26	P	308	CDL	C75-C76-C77-C78
26	P	313	CDL	C1-CA2-OA2-PA1
24	T	105	CHD	C16-C17-C20-C21
17	C	305	PGV	C23-C24-C25-C26
26	C	313	CDL	C11-C12-C13-C14
22	N	604	TGL	C11-C10-CB9-CB8
26	C	313	CDL	C71-CB7-OB8-CB6
26	C	306	CDL	C77-C78-C79-C80
17	C	304	PGV	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
17	P	307	PGV	C28-C29-C30-C31
25	T	102	PEK	C28-C29-C30-C31
26	P	308	CDL	C54-C55-C56-C57
28	I	101	PSC	C25-C26-C27-C28
23	C	301	DMU	O16-C18-C19-C22
17	P	307	PGV	O05-C05-C06-O06
28	R	201	PSC	C3-C4-C5-C6
26	P	308	CDL	C63-C64-C65-C66
28	R	201	PSC	C14-C15-C16-C17
26	C	306	CDL	C16-C17-C18-C19
17	N	606	PGV	C23-C24-C25-C26
17	P	307	PGV	C01-C02-C03-O11
25	C	303	PEK	C01-C02-C03-O11
25	P	305	PEK	C01-C02-C03-O11
26	C	313	CDL	OA5-CA3-CA4-CA6
28	I	101	PSC	C01-C02-C03-O11
17	A	604	PGV	O02-C1-O01-C02
17	P	307	PGV	O02-C1-O01-C02
25	T	103	PEK	O02-C1-O01-C02
26	C	306	CDL	OB7-CB5-OB6-CB4
17	A	604	PGV	C22-C23-C24-C25
25	T	103	PEK	C32-C33-C34-C35
25	T	103	PEK	C33-C34-C35-C36
28	R	201	PSC	C26-C27-C28-C29
22	N	616	TGL	C21-C20-CA9-CA8
26	C	313	CDL	C62-C63-C64-C65
22	N	605	TGL	CA7-CA8-CA9-C20
22	B	302	TGL	C11-C12-C13-C14
25	C	303	PEK	C1-C2-C3-C4
17	P	307	PGV	C23-C24-C25-C26
22	D	201	TGL	C11-C10-CB9-CB8
25	P	305	PEK	C25-C26-C27-C28
26	C	313	CDL	OA9-CA7-OA8-CA6
22	N	605	TGL	CB3-CB4-CB5-CB6
22	N	605	TGL	C24-C25-C26-C27
22	D	201	TGL	CC4-CC5-CC6-CC7
23	M	101	DMU	C31-C34-C37-C40
23	Z	101	DMU	C31-C34-C37-C40
22	B	302	TGL	CC1-CC2-CC3-CC4
17	A	605	PGV	C13-C14-C15-C16
22	N	605	TGL	CC3-CC4-CC5-CC6
23	C	314	DMU	C1-C6-O16-C18

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Mol	Chain	Res	Type	Atoms
23	C	301	DMU	C5-C10-O7-C3
26	C	313	CDL	CB5-C51-C52-C53
22	B	302	TGL	OG1-CG1-CG2-CG3
22	B	302	TGL	CG1-CG2-CG3-OG3
26	C	313	CDL	CA3-CA4-CA6-OA8
26	P	313	CDL	CB3-CB4-CB6-OB8
17	C	304	PGV	C28-C29-C30-C31
22	N	616	TGL	C10-C11-C12-C13
26	C	306	CDL	C57-C58-C59-C60
22	N	605	TGL	CC9-C15-C16-C17
25	C	303	PEK	C24-C25-C26-C27
22	N	616	TGL	C21-C22-C23-C24
19	B	303	EDO	O1-C1-C2-O2
19	B	309	EDO	O1-C1-C2-O2
19	D	203	EDO	O1-C1-C2-O2
19	D	204	EDO	O1-C1-C2-O2
19	F	703	EDO	O1-C1-C2-O2
19	G	106	EDO	O1-C1-C2-O2
19	G	108	EDO	O1-C1-C2-O2
19	K	902	EDO	O1-C1-C2-O2
19	L	102	EDO	O1-C1-C2-O2
19	N	611	EDO	O1-C1-C2-O2
19	N	613	EDO	O1-C1-C2-O2
19	R	202	EDO	O1-C1-C2-O2
19	S	2501	EDO	O1-C1-C2-O2
19	S	2505	EDO	O1-C1-C2-O2
19	V	103	EDO	O1-C1-C2-O2
23	G	103	DMU	O1-C10-O7-C3
22	N	605	TGL	C22-C23-C24-C25
17	P	307	PGV	C1-C2-C3-C4
22	L	101	TGL	CA3-CA4-CA5-CA6
28	I	101	PSC	C29-C30-C31-C32
26	C	306	CDL	C38-C39-C40-C41
26	P	313	CDL	C58-C59-C60-C61
18	N	607	HEA	C3A-C2A-CAA-CBA
17	A	604	PGV	C27-C28-C29-C30
17	A	605	PGV	C27-C28-C29-C30
22	N	616	TGL	CC3-CC4-CC5-CC6
26	C	313	CDL	C13-C14-C15-C16
17	N	620	PGV	C19-C20-C21-C22
26	P	308	CDL	C37-C38-C39-C40
26	P	308	CDL	C58-C59-C60-C61

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Mol	Chain	Res	Type	Atoms
26	P	313	CDL	C81-C82-C83-C84
17	N	620	PGV	C03-C02-O01-C1
26	C	306	CDL	C83-C84-C85-C86
25	G	101	PEK	C15-C16-C17-C18
17	A	604	PGV	C25-C26-C27-C28
22	N	616	TGL	C16-C17-C18-C19
25	T	103	PEK	C29-C30-C31-C32
26	C	313	CDL	OB9-CB7-OB8-CB6
17	N	606	PGV	C5-C6-C7-C8
25	T	102	PEK	C34-C35-C36-C37
26	P	308	CDL	CB2-C1-CA2-OA2
22	D	201	TGL	CB5-CB6-CB7-CB8
26	P	313	CDL	C23-C24-C25-C26
17	C	304	PGV	C31-C32-C33-C34
28	I	101	PSC	C26-C27-C28-C29
17	N	606	PGV	C7-C8-C9-C10
22	B	302	TGL	CB2-CB3-CB4-CB5
26	C	306	CDL	C22-C23-C24-C25
26	P	313	CDL	C22-C23-C24-C25
26	P	308	CDL	C44-C45-C46-C47
17	P	306	PGV	C6-C7-C8-C9
25	G	101	PEK	C25-C26-C27-C28
17	N	620	PGV	O03-C01-C02-O01
26	C	306	CDL	C63-C64-C65-C66
28	R	201	PSC	C5-C6-C7-C8
17	P	307	PGV	C27-C28-C29-C30
22	B	302	TGL	C33-C34-C35-C36
25	T	103	PEK	C35-C36-C37-C38
22	N	604	TGL	C25-C26-C27-C28
26	C	313	CDL	C44-C45-C46-C47
26	P	313	CDL	C63-C64-C65-C66
26	C	306	CDL	C44-C45-C46-C47
22	N	616	TGL	CA1-CA2-CA3-CA4
22	L	101	TGL	C23-C24-C25-C26
22	N	605	TGL	CA2-CA1-OG1-CG1
25	C	303	PEK	O03-C21-C22-C23
22	N	616	TGL	CB9-C10-C11-C12
17	N	606	PGV	C6-C7-C8-C9
17	P	306	PGV	C4-C5-C6-C7
17	A	604	PGV	C26-C27-C28-C29
17	C	305	PGV	C30-C31-C32-C33
23	C	301	DMU	C19-C18-O16-C6

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Mol	Chain	Res	Type	Atoms
26	P	308	CDL	C19-C20-C21-C22
17	C	304	PGV	C20-C21-C22-C23
22	D	201	TGL	CB2-CB3-CB4-CB5
22	N	605	TGL	C17-C18-C19-C33
26	P	308	CDL	C83-C84-C85-C86
23	G	103	DMU	C34-C37-C40-C43
17	A	604	PGV	C7-C8-C9-C10
22	N	605	TGL	C16-C15-CC9-CC8
25	G	101	PEK	C33-C34-C35-C36
26	P	313	CDL	C13-C14-C15-C16
25	T	102	PEK	C21-C22-C23-C24
26	P	308	CDL	OB5-CB3-CB4-CB6
25	G	101	PEK	C2-C1-O01-C02
22	N	605	TGL	OA1-CA1-OG1-CG1
22	N	605	TGL	C25-C26-C27-C28
25	P	305	PEK	C35-C36-C37-C38
25	C	303	PEK	C35-C36-C37-C38
23	C	301	DMU	C34-C37-C40-C43
17	A	604	PGV	C15-C16-C17-C18
17	P	307	PGV	C2-C3-C4-C5
22	N	605	TGL	CC7-CC8-CC9-C15
22	N	604	TGL	CC6-CC7-CC8-CC9
22	L	101	TGL	C33-C34-C35-C36
23	P	303	DMU	C3-C4-C57-O61
26	C	306	CDL	C15-C16-C17-C18
24	G	107	CHD	C20-C22-C23-C24
17	A	604	PGV	C5-C6-C7-C8
26	C	306	CDL	CA3-CA4-CA6-OA8
26	C	306	CDL	CB3-CB4-CB6-OB8
26	P	308	CDL	CA3-CA4-CA6-OA8
17	P	307	PGV	C25-C26-C27-C28
26	P	308	CDL	C64-C65-C66-C67
17	P	307	PGV	C3-C4-C5-C6
22	N	605	TGL	C12-C13-C14-C29
22	N	616	TGL	CA2-CA3-CA4-CA5
26	C	306	CDL	C79-C80-C81-C82
19	A	613	EDO	O1-C1-C2-O2
19	N	610	EDO	O1-C1-C2-O2
19	S	2503	EDO	O1-C1-C2-O2
19	S	2508	EDO	O1-C1-C2-O2
17	C	305	PGV	C2-C3-C4-C5
25	T	102	PEK	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
17	P	307	PGV	C14-C15-C16-C17
26	P	308	CDL	C53-C54-C55-C56
26	P	313	CDL	C83-C84-C85-C86
25	C	303	PEK	O01-C02-C03-O11
26	C	306	CDL	OB5-CB3-CB4-OB6
26	P	308	CDL	OB5-CB3-CB4-OB6
17	P	307	PGV	C12-C13-C14-C15
28	R	201	PSC	C13-C14-C15-C16
17	C	304	PGV	C02-C03-O11-P
17	P	307	PGV	C05-C04-O12-P
28	I	101	PSC	C14-C15-C16-C17
26	C	306	CDL	C84-C85-C86-C87
26	P	313	CDL	C84-C85-C86-C87
17	P	306	PGV	C28-C29-C30-C31
25	T	102	PEK	C32-C33-C34-C35
25	G	101	PEK	C34-C35-C36-C37
22	L	101	TGL	OG1-CG1-CG2-OG2
22	L	101	TGL	OG2-CG2-CG3-OG3
26	C	306	CDL	OA6-CA4-CA6-OA8
26	P	308	CDL	OA6-CA4-CA6-OA8
26	P	313	CDL	OB6-CB4-CB6-OB8
25	C	303	PEK	C6-C7-C8-C9
25	C	303	PEK	C11-C12-C13-C14
25	P	301	PEK	C5-C6-C7-C8
25	P	301	PEK	C11-C10-C9-C8
25	P	301	PEK	C9-C10-C11-C12
25	P	301	PEK	C11-C12-C13-C14
25	P	305	PEK	C6-C7-C8-C9
25	P	305	PEK	C9-C10-C11-C12
25	P	305	PEK	C11-C12-C13-C14
25	P	305	PEK	C12-C13-C14-C15
25	T	102	PEK	C9-C10-C11-C12
28	I	101	PSC	C10-C11-C12-C13
28	R	201	PSC	C9-C10-C11-C12
17	C	305	PGV	C25-C26-C27-C28
22	N	616	TGL	C12-C13-C14-C29
26	P	308	CDL	C31-C32-C33-C34
22	D	201	TGL	C10-C11-C12-C13
28	R	201	PSC	C1-C2-C3-C4
17	P	306	PGV	C23-C24-C25-C26
22	B	302	TGL	CA2-CA3-CA4-CA5
22	N	605	TGL	C13-C14-C29-C30

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Mol	Chain	Res	Type	Atoms
26	P	308	CDL	C74-C75-C76-C77
28	I	101	PSC	C20-C21-C22-C23
22	B	302	TGL	C22-C23-C24-C25
22	N	616	TGL	C11-C12-C13-C14
26	C	306	CDL	C18-C19-C20-C21
17	N	606	PGV	C19-C20-C21-C22
22	N	616	TGL	CC6-CC7-CC8-CC9
17	N	606	PGV	C25-C26-C27-C28
22	N	605	TGL	CC6-CC7-CC8-CC9
23	C	301	DMU	O1-C10-O7-C3
26	P	313	CDL	C32-C33-C34-C35
26	P	313	CDL	C82-C83-C84-C85
22	B	302	TGL	C13-C14-C29-C30
26	P	308	CDL	C21-C22-C23-C24
26	P	313	CDL	C24-C25-C26-C27
28	R	201	PSC	C27-C28-C29-C30
22	B	302	TGL	CC6-CC7-CC8-CC9
25	P	301	PEK	C26-C27-C28-C29
26	C	313	CDL	C18-C19-C20-C21
28	I	101	PSC	C28-C29-C30-C31
17	C	304	PGV	C26-C27-C28-C29
28	R	201	PSC	C01-C02-C03-O11
25	T	103	PEK	C17-C18-C19-C20
17	C	304	PGV	C22-C23-C24-C25
17	N	606	PGV	C13-C14-C15-C16
22	L	101	TGL	C29-C30-C31-C32
25	P	305	PEK	C26-C27-C28-C29
17	A	605	PGV	C31-C32-C33-C34
25	P	301	PEK	C32-C33-C34-C35
23	M	101	DMU	C34-C37-C40-C43
25	P	305	PEK	C33-C34-C35-C36
22	B	302	TGL	CB2-CB1-OG2-CG2
26	C	306	CDL	C81-C82-C83-C84
17	N	620	PGV	C26-C27-C28-C29
22	B	302	TGL	CA6-CA7-CA8-CA9
17	A	604	PGV	C12-C13-C14-C15
25	T	102	PEK	C25-C26-C27-C28
25	P	305	PEK	C27-C28-C29-C30
26	C	306	CDL	C61-C62-C63-C64
25	T	102	PEK	C35-C36-C37-C38
28	R	201	PSC	O01-C02-C03-O11
17	C	304	PGV	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
22	D	201	TGL	CG1-CG2-CG3-OG3
22	L	101	TGL	CG1-CG2-CG3-OG3
24	J	101	CHD	C20-C22-C23-C24
26	C	313	CDL	C38-C39-C40-C41
26	P	313	CDL	C20-C21-C22-C23
22	D	201	TGL	C11-C12-C13-C14
19	A	611	EDO	O1-C1-C2-O2
19	A	617	EDO	O1-C1-C2-O2
19	N	612	EDO	O1-C1-C2-O2
19	V	102	EDO	O1-C1-C2-O2
25	C	303	PEK	O03-C01-C02-O01
26	C	306	CDL	OB6-CB4-CB6-OB8
26	C	313	CDL	OA6-CA4-CA6-OA8
25	P	301	PEK	C27-C28-C29-C30
17	A	605	PGV	C7-C8-C9-C10
25	P	301	PEK	C34-C35-C36-C37
25	C	303	PEK	C31-C32-C33-C34
17	P	306	PGV	C19-C20-C21-C22
17	A	605	PGV	C2-C3-C4-C5
22	L	101	TGL	CC3-CC4-CC5-CC6
22	N	616	TGL	CC2-CC3-CC4-CC5
22	N	604	TGL	CB4-CB5-CB6-CB7
24	P	309	CHD	C20-C22-C23-C24
17	N	606	PGV	C12-C13-C14-C15
26	C	306	CDL	C17-C18-C19-C20
23	G	103	DMU	C19-C18-O16-C6
25	P	305	PEK	C3-C4-C5-C6
26	P	308	CDL	C56-C57-C58-C59
26	P	313	CDL	C42-C43-C44-C45
26	C	306	CDL	OB5-CB3-CB4-CB6
26	C	313	CDL	C51-CB5-OB6-CB4
26	P	308	CDL	C11-CA5-OA6-CA4
26	C	313	CDL	OB7-CB5-OB6-CB4
26	P	308	CDL	C23-C24-C25-C26
25	C	303	PEK	C33-C34-C35-C36
28	I	101	PSC	C23-C24-C25-C26
17	A	604	PGV	C05-C04-O12-P
26	C	306	CDL	CA4-CA3-OA5-PA1
23	P	303	DMU	C19-C22-C25-C28
22	B	302	TGL	C29-C30-C31-C32
26	P	308	CDL	OA7-CA5-OA6-CA4
17	P	307	PGV	O01-C02-C03-O11

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Mol	Chain	Res	Type	Atoms
25	P	301	PEK	O01-C02-C03-O11
28	I	101	PSC	O01-C02-C03-O11
25	C	303	PEK	C23-C24-C25-C26
18	A	606	HEA	C4A-C3A-CMA-OMA
17	P	307	PGV	C22-C23-C24-C25
17	C	304	PGV	C7-C8-C9-C10
26	C	306	CDL	C58-C59-C60-C61
22	B	302	TGL	OG2-CG2-CG3-OG3
22	D	201	TGL	OG2-CG2-CG3-OG3
22	N	605	TGL	OG2-CG2-CG3-OG3
25	C	303	PEK	O03-C01-C02-C03
17	N	620	PGV	C12-C13-C14-C15
17	N	620	PGV	C31-C32-C33-C34
22	B	302	TGL	CC3-CC4-CC5-CC6
22	N	616	TGL	C23-C24-C25-C26
25	T	102	PEK	C3-C4-C5-C6
17	C	304	PGV	C24-C25-C26-C27
17	N	620	PGV	C5-C6-C7-C8
22	L	101	TGL	C22-C23-C24-C25
26	P	313	CDL	C61-C62-C63-C64
19	A	616	EDO	O1-C1-C2-O2
19	B	310	EDO	O1-C1-C2-O2
19	F	708	EDO	O1-C1-C2-O2
19	P	314	EDO	O1-C1-C2-O2
28	I	101	PSC	C3-C4-C5-C6
17	A	604	PGV	C03-O11-P-O13
17	C	305	PGV	C03-O11-P-O12
17	C	305	PGV	C04-O12-P-O13
17	N	606	PGV	C04-O12-P-O13
17	N	620	PGV	C04-O12-P-O11
17	N	620	PGV	C04-O12-P-O14
17	P	307	PGV	C04-O12-P-O14
25	C	303	PEK	C04-O12-P-O11
25	P	305	PEK	C03-O11-P-O13
26	C	306	CDL	CA3-OA5-PA1-OA3
26	C	306	CDL	CB2-OB2-PB2-OB3
26	C	313	CDL	CB2-OB2-PB2-OB3
26	P	308	CDL	CB2-OB2-PB2-OB5
26	P	313	CDL	CB2-OB2-PB2-OB3
28	I	101	PSC	C04-O12-P-O14
17	P	306	PGV	C02-C03-O11-P
25	P	305	PEK	C02-C03-O11-P

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Mol	Chain	Res	Type	Atoms
26	P	308	CDL	C1-CB2-OB2-PB2
17	N	606	PGV	C15-C16-C17-C18
18	N	608	HEA	C12-C11-C3B-C4B
22	D	201	TGL	CB7-CB8-CB9-C10
25	P	305	PEK	C34-C35-C36-C37
17	C	304	PGV	C1-C2-C3-C4
22	N	616	TGL	CA4-CA5-CA6-CA7
25	C	303	PEK	C03-C02-O01-C1
25	G	101	PEK	C26-C27-C28-C29
25	T	103	PEK	C27-C28-C29-C30
26	P	308	CDL	C51-C52-C53-C54
22	L	101	TGL	C20-C21-C22-C23
23	G	103	DMU	C28-C31-C34-C37
26	C	306	CDL	C19-C20-C21-C22
28	R	201	PSC	C04-C05-N-C07
17	C	305	PGV	C01-C02-C03-O11
22	L	101	TGL	C16-C15-CC9-CC8
28	R	201	PSC	C7-C8-C9-C10
17	P	307	PGV	C13-C14-C15-C16
17	P	307	PGV	O03-C01-C02-O01
26	C	306	CDL	C75-C76-C77-C78
26	P	308	CDL	C20-C21-C22-C23
25	T	102	PEK	C7-C8-C9-C10
17	A	604	PGV	C2-C1-O01-C02
26	P	308	CDL	C51-CB5-OB6-CB4
22	D	201	TGL	CB6-CB7-CB8-CB9
25	P	305	PEK	C15-C16-C17-C18
26	C	313	CDL	C77-C78-C79-C80
22	L	101	TGL	OG1-CG1-CG2-CG3
23	P	303	DMU	C34-C37-C40-C43
19	A	609	EDO	O1-C1-C2-O2
19	B	304	EDO	O1-C1-C2-O2
19	B	306	EDO	O1-C1-C2-O2
19	B	307	EDO	O1-C1-C2-O2
19	E	202	EDO	O1-C1-C2-O2
19	J	103	EDO	O1-C1-C2-O2
19	N	618	EDO	O1-C1-C2-O2
19	P	302	EDO	O1-C1-C2-O2
19	P	310	EDO	O1-C1-C2-O2
19	U	1501	EDO	O1-C1-C2-O2
22	N	605	TGL	CC2-CC3-CC4-CC5
17	N	606	PGV	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
26	P	308	CDL	C59-C60-C61-C62
26	P	313	CDL	C16-C17-C18-C19
17	N	606	PGV	O03-C19-C20-C21
26	C	313	CDL	C21-C22-C23-C24
23	P	303	DMU	C25-C28-C31-C34
22	D	201	TGL	OG2-CB1-CB2-CB3
22	D	201	TGL	C19-C33-C34-C35
25	P	301	PEK	O03-C21-C22-C23
22	N	616	TGL	CA9-C20-C21-C22
25	T	103	PEK	C31-C32-C33-C34
22	N	616	TGL	CC5-CC6-CC7-CC8
22	B	302	TGL	OA1-CA1-OG1-CG1
17	P	306	PGV	C9-C10-C11-C12
26	P	308	CDL	C55-C56-C57-C58
17	N	606	PGV	C3-C4-C5-C6
26	P	308	CDL	OB7-CB5-OB6-CB4
17	C	305	PGV	C15-C16-C17-C18
26	C	313	CDL	C81-C82-C83-C84
26	P	313	CDL	C57-C58-C59-C60
22	N	604	TGL	CB2-CB3-CB4-CB5
26	C	313	CDL	C78-C79-C80-C81
24	J	101	CHD	C22-C23-C24-O25
17	C	305	PGV	C14-C15-C16-C17
23	M	101	DMU	O6-C11-C9-O1
25	C	303	PEK	C34-C35-C36-C37
22	N	604	TGL	C15-C16-C17-C18
18	A	606	HEA	CAA-CBA-CGA-O1A
22	L	101	TGL	CA9-C20-C21-C22
26	P	313	CDL	C40-C41-C42-C43
26	P	313	CDL	C39-C40-C41-C42
26	P	308	CDL	C79-C80-C81-C82
22	B	302	TGL	OB1-CB1-OG2-CG2
19	E	204	EDO	O1-C1-C2-O2
19	F	707	EDO	O1-C1-C2-O2
19	M	102	EDO	O1-C1-C2-O2
25	T	103	PEK	C3-C4-C5-C6
22	N	604	TGL	CC2-CC3-CC4-CC5
24	J	101	CHD	C22-C23-C24-O26
17	P	307	PGV	C15-C16-C17-C18
25	G	101	PEK	C28-C29-C30-C31
25	P	305	PEK	C28-C29-C30-C31
18	A	606	HEA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
24	G	107	CHD	C22-C23-C24-O25
23	C	314	DMU	C3-C4-C57-O61
25	C	303	PEK	C27-C28-C29-C30
17	C	304	PGV	C05-C04-O12-P
17	P	306	PGV	C5-C6-C7-C8
22	D	201	TGL	CA4-CA5-CA6-CA7
26	C	313	CDL	C17-C18-C19-C20
18	N	607	HEA	CAD-CBD-CGD-O1D
24	T	105	CHD	C22-C23-C24-O25
23	Z	101	DMU	C3-C4-C57-O61
25	P	301	PEK	C12-C13-C14-C15
25	T	102	PEK	C5-C6-C7-C8
25	T	103	PEK	C5-C6-C7-C8
25	T	103	PEK	C9-C10-C11-C12
23	M	101	DMU	C22-C25-C28-C31
18	A	606	HEA	CAA-CBA-CGA-O2A
26	C	313	CDL	C33-C34-C35-C36
26	P	313	CDL	C38-C39-C40-C41
26	P	313	CDL	C74-C75-C76-C77
18	A	606	HEA	CAD-CBD-CGD-O2D
25	T	103	PEK	C28-C29-C30-C31
22	N	604	TGL	CA6-CA7-CA8-CA9
26	P	313	CDL	C64-C65-C66-C67
24	C	307	CHD	C22-C23-C24-O25
24	T	101	CHD	C22-C23-C24-O25
17	C	305	PGV	C4-C5-C6-C7
17	C	305	PGV	C6-C7-C8-C9
25	P	301	PEK	C35-C36-C37-C38
24	T	101	CHD	C22-C23-C24-O26
24	G	107	CHD	C22-C23-C24-O26
26	P	308	CDL	CA4-CA3-OA5-PA1
22	L	101	TGL	CB4-CB5-CB6-CB7
24	T	105	CHD	C22-C23-C24-O26
26	C	313	CDL	C32-C33-C34-C35
22	D	201	TGL	CB9-C10-C11-C12
22	N	605	TGL	CG1-CG2-CG3-OG3
22	N	616	TGL	OG1-CG1-CG2-CG3
22	N	616	TGL	CG1-CG2-CG3-OG3
26	P	308	CDL	CB3-CB4-CB6-OB8
22	D	201	TGL	C22-C23-C24-C25
24	C	307	CHD	C22-C23-C24-O26
17	A	605	PGV	O03-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
23	Z	101	DMU	C18-C19-C22-C25
17	C	305	PGV	C21-C22-C23-C24
19	A	608	EDO	O1-C1-C2-O2
19	F	706	EDO	O1-C1-C2-O2
19	G	105	EDO	O1-C1-C2-O2
19	I	104	EDO	O1-C1-C2-O2
19	M	103	EDO	O1-C1-C2-O2
17	A	605	PGV	C9-C10-C11-C12
24	P	309	CHD	C22-C23-C24-O26
25	G	101	PEK	O02-C1-O01-C02
28	R	201	PSC	C04-C05-N-C06
17	A	605	PGV	C30-C31-C32-C33
25	P	301	PEK	C01-C02-C03-O11
25	G	101	PEK	C14-C15-C16-C17
25	G	101	PEK	C35-C36-C37-C38
28	I	101	PSC	O03-C19-C20-C21
22	N	605	TGL	CA2-CA3-CA4-CA5
25	G	101	PEK	C32-C33-C34-C35
18	N	608	HEA	CAA-CBA-CGA-O2A
17	P	306	PGV	C20-C21-C22-C23
28	I	101	PSC	C12-C13-C14-C15
25	C	303	PEK	O04-C21-C22-C23
17	A	604	PGV	C2-C3-C4-C5
26	P	308	CDL	CB7-C71-C72-C73
24	C	302	CHD	C22-C23-C24-O26
17	P	307	PGV	C19-C20-C21-C22
22	L	101	TGL	CA2-CA3-CA4-CA5
17	C	304	PGV	C11-C12-C13-C14
17	P	307	PGV	C11-C12-C13-C14
17	P	307	PGV	C24-C25-C26-C27
28	I	101	PSC	C6-C7-C8-C9
23	P	303	DMU	C4-C3-O7-C10
26	C	306	CDL	C12-C13-C14-C15
26	C	306	CDL	C21-C22-C23-C24
23	C	314	DMU	C34-C37-C40-C43
17	C	305	PGV	O12-C04-C05-O05
23	C	314	DMU	C19-C22-C25-C28
22	B	302	TGL	CA7-CA8-CA9-C20
26	C	313	CDL	C84-C85-C86-C87
17	C	304	PGV	C21-C22-C23-C24
26	P	313	CDL	C31-CA7-OA8-CA6
18	N	608	HEA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
17	N	620	PGV	O03-C01-C02-C03
17	P	307	PGV	O03-C01-C02-C03
22	N	604	TGL	C29-C30-C31-C32
26	P	313	CDL	OA9-CA7-OA8-CA6
24	P	309	CHD	C22-C23-C24-O25
17	N	606	PGV	C9-C10-C11-C12
26	C	306	CDL	C80-C81-C82-C83
23	G	103	DMU	O6-C11-C9-C8
19	A	610	EDO	O1-C1-C2-O2
19	C	310	EDO	O1-C1-C2-O2
19	E	205	EDO	O1-C1-C2-O2
19	Q	1601	EDO	O1-C1-C2-O2
19	S	2507	EDO	O1-C1-C2-O2
19	T	104	EDO	O1-C1-C2-O2
17	N	620	PGV	C9-C10-C11-C12
24	C	302	CHD	C22-C23-C24-O25
17	C	305	PGV	C20-C21-C22-C23
25	P	301	PEK	C21-C22-C23-C24
28	R	201	PSC	C04-C05-N-C08
23	P	303	DMU	C2-C3-O7-C10
17	N	620	PGV	O01-C1-C2-C3
22	B	302	TGL	CA2-CA1-OG1-CG1
24	T	101	CHD	C21-C20-C22-C23
17	A	604	PGV	C20-C21-C22-C23
18	A	606	HEA	C2C-C3C-CAC-CBC
17	A	605	PGV	C11-C12-C13-C14
18	N	607	HEA	CAD-CBD-CGD-O2D
23	P	303	DMU	C18-C19-C22-C25
17	P	307	PGV	O01-C1-C2-C3
26	P	313	CDL	C32-C31-CA7-OA8
22	B	302	TGL	CA9-C20-C21-C22
25	T	102	PEK	O01-C1-C2-C3
26	P	313	CDL	OB7-CB5-OB6-CB4
25	T	102	PEK	C2-C1-O01-C02
26	P	313	CDL	C51-CB5-OB6-CB4
22	L	101	TGL	CC9-C15-C16-C17
22	D	201	TGL	C21-C22-C23-C24
22	N	605	TGL	OG2-CB1-CB2-CB3
25	T	103	PEK	C26-C27-C28-C29
18	N	607	HEA	C26-C15-C16-C17
25	G	101	PEK	O01-C1-C2-C3
26	C	313	CDL	C12-C11-CA5-OA6

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Mol	Chain	Res	Type	Atoms
23	Z	101	DMU	C28-C31-C34-C37
18	N	608	HEA	CAD-CBD-CGD-O2D
23	C	314	DMU	C19-C18-O16-C6
23	Z	101	DMU	C19-C18-O16-C6
26	P	308	CDL	CB4-CB3-OB5-PB2
26	P	313	CDL	C72-C71-CB7-OB8
17	A	605	PGV	C29-C30-C31-C32
25	G	101	PEK	C22-C21-O03-C01
17	N	606	PGV	C26-C27-C28-C29
22	N	604	TGL	CC3-CC4-CC5-CC6
22	B	302	TGL	C15-C16-C17-C18
22	L	101	TGL	OC1-CC1-OG3-CG3
19	N	619	EDO	O1-C1-C2-O2
19	R	203	EDO	O1-C1-C2-O2
22	L	101	TGL	OG1-CA1-CA2-CA3
26	C	306	CDL	C72-C71-CB7-OB8
25	T	102	PEK	C33-C34-C35-C36
26	P	308	CDL	C60-C61-C62-C63
22	B	302	TGL	CC5-CC6-CC7-CC8
22	B	302	TGL	C19-C33-C34-C35
26	C	306	CDL	C72-C71-CB7-OB9
26	P	313	CDL	C32-C31-CA7-OA9
22	N	616	TGL	CC4-CC5-CC6-CC7
28	R	201	PSC	C29-C30-C31-C32
22	N	616	TGL	C14-C29-C30-C31
18	N	608	HEA	CAD-CBD-CGD-O1D
29	V	101	SAC	N-CA-CB-OG
23	C	301	DMU	C2-C3-O7-C10
17	C	305	PGV	C5-C6-C7-C8
22	N	605	TGL	CB6-CB7-CB8-CB9
18	A	607	HEA	CAA-CBA-CGA-O2A
22	N	605	TGL	OB1-CB1-CB2-CB3
17	A	605	PGV	C15-C16-C17-C18
25	G	101	PEK	O03-C21-C22-C23
17	N	620	PGV	C4-C5-C6-C7
17	N	620	PGV	O02-C1-C2-C3
22	L	101	TGL	OG3-CC1-CC2-CC3
28	R	201	PSC	O03-C19-C20-C21
25	T	102	PEK	O02-C1-C2-C3
26	C	313	CDL	C12-C11-CA5-OA7
26	C	313	CDL	C32-C31-CA7-OA8
28	R	201	PSC	O01-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
24	C	307	CHD	C20-C22-C23-C24
25	T	103	PEK	C10-C11-C12-C13
17	P	307	PGV	O02-C1-C2-C3
26	P	313	CDL	C72-C71-CB7-OB9
22	N	616	TGL	OG3-CC1-CC2-CC3
22	L	101	TGL	OA1-CA1-CA2-CA3
25	P	305	PEK	C22-C23-C24-C25
22	L	101	TGL	CC4-CC5-CC6-CC7
25	G	101	PEK	O02-C1-C2-C3
17	A	605	PGV	C02-C01-O03-C19
26	P	308	CDL	C72-C71-CB7-OB8
17	P	307	PGV	C4-C5-C6-C7
22	B	302	TGL	CB1-CB2-CB3-CB4
22	N	616	TGL	OC1-CC1-CC2-CC3

There are no ring outliers.

53 monomers are involved in 147 short contacts:

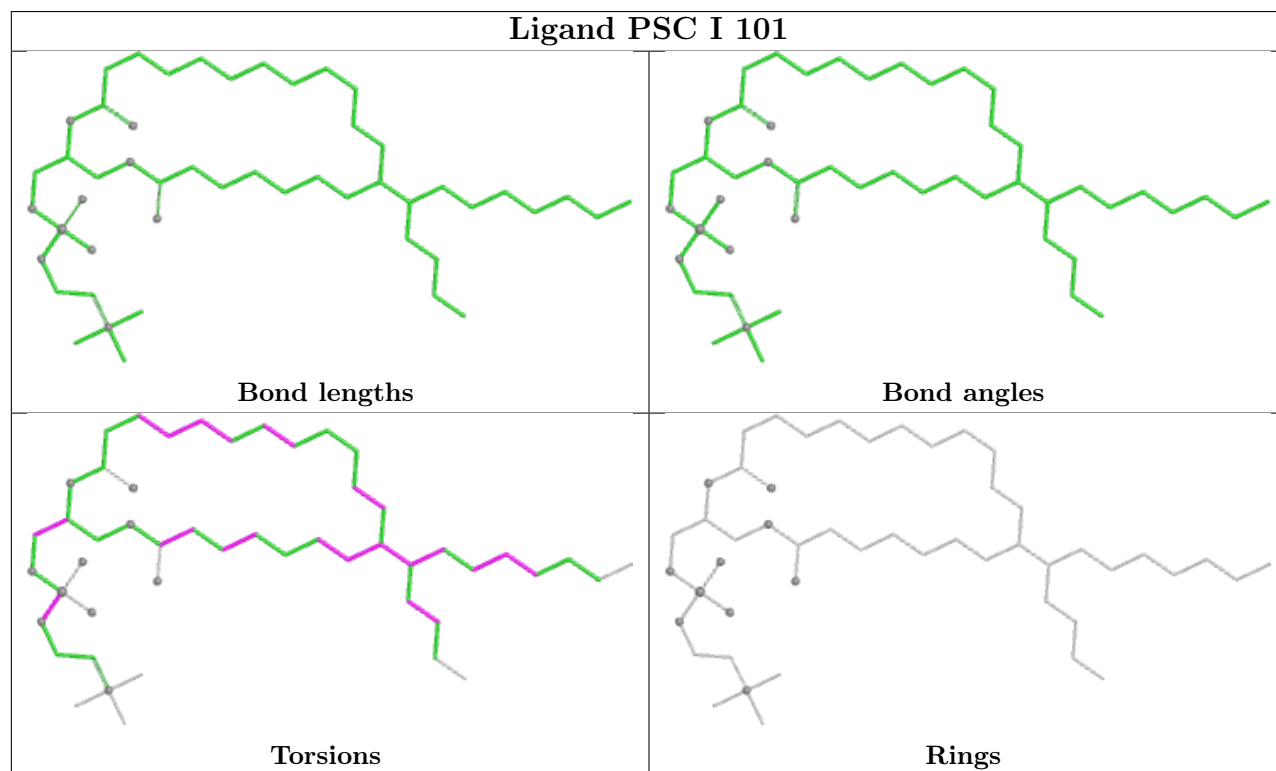
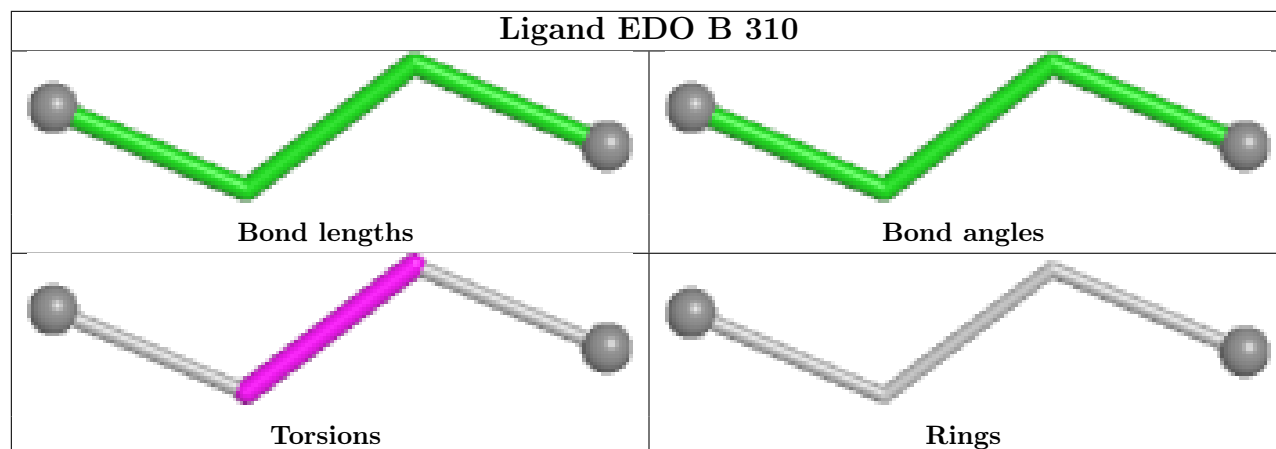
Mol	Chain	Res	Type	Clashes	Symm-Clashes
28	I	101	PSC	3	0
25	C	303	PEK	1	0
18	A	606	HEA	2	0
24	T	105	CHD	11	0
24	Y	101	CHD	4	0
19	A	608	EDO	1	0
23	M	101	DMU	2	0
25	G	101	PEK	3	0
22	N	616	TGL	2	0
22	N	604	TGL	1	0
24	P	309	CHD	1	0
26	P	308	CDL	3	0
28	R	201	PSC	3	0
20	N	614	SCN	3	0
17	A	604	PGV	11	0
19	I	103	EDO	1	0
26	C	306	CDL	2	0
23	C	314	DMU	1	0
24	T	101	CHD	1	0
19	C	308	EDO	1	0
24	C	302	CHD	1	0
19	N	618	EDO	1	0
25	T	102	PEK	2	0

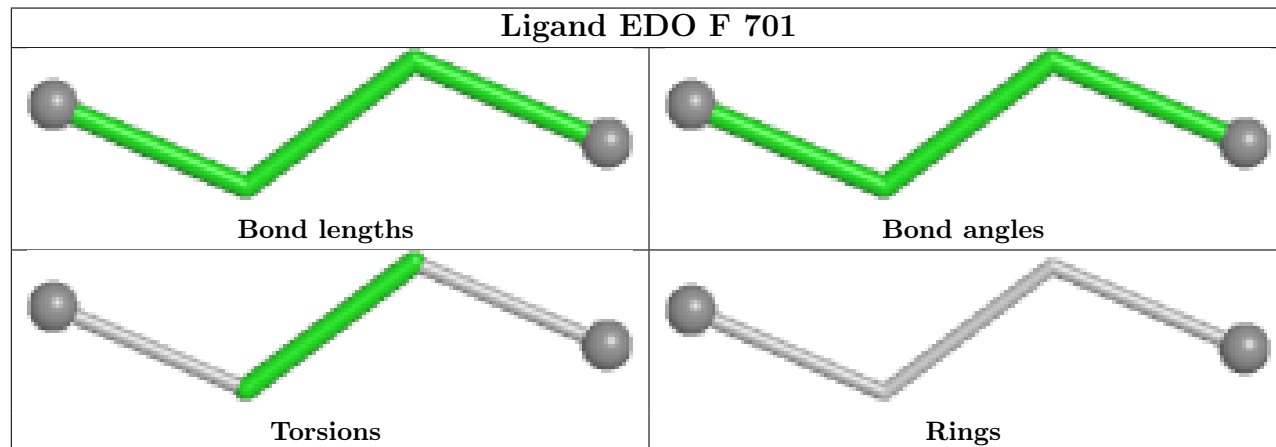
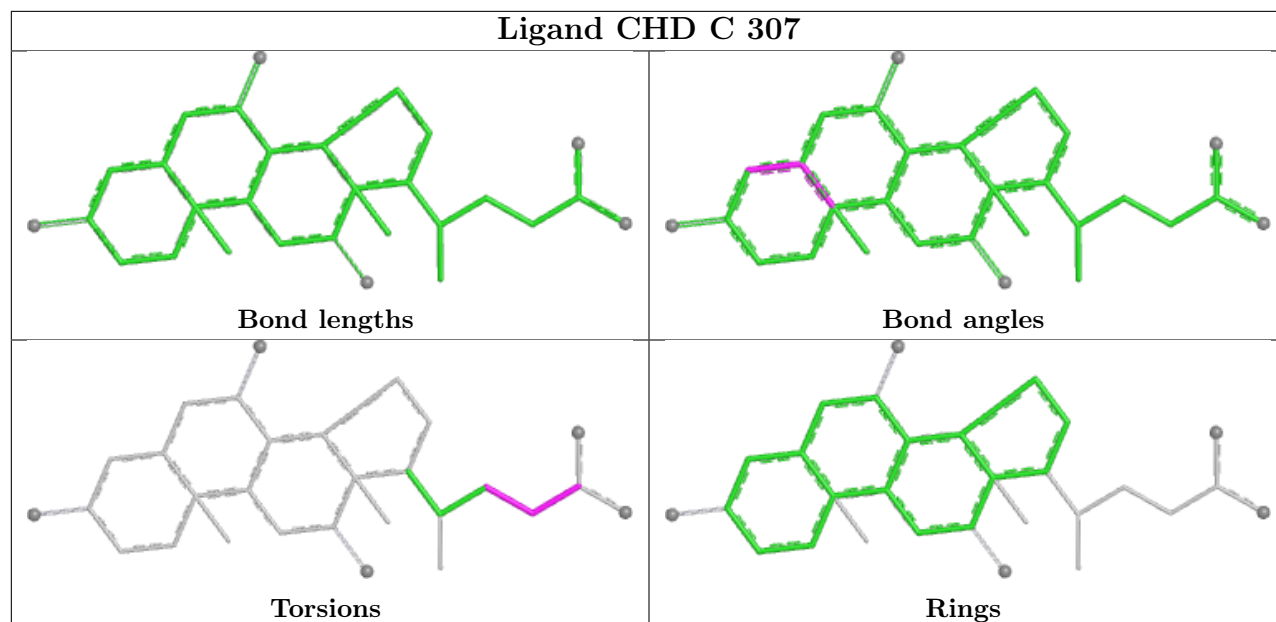
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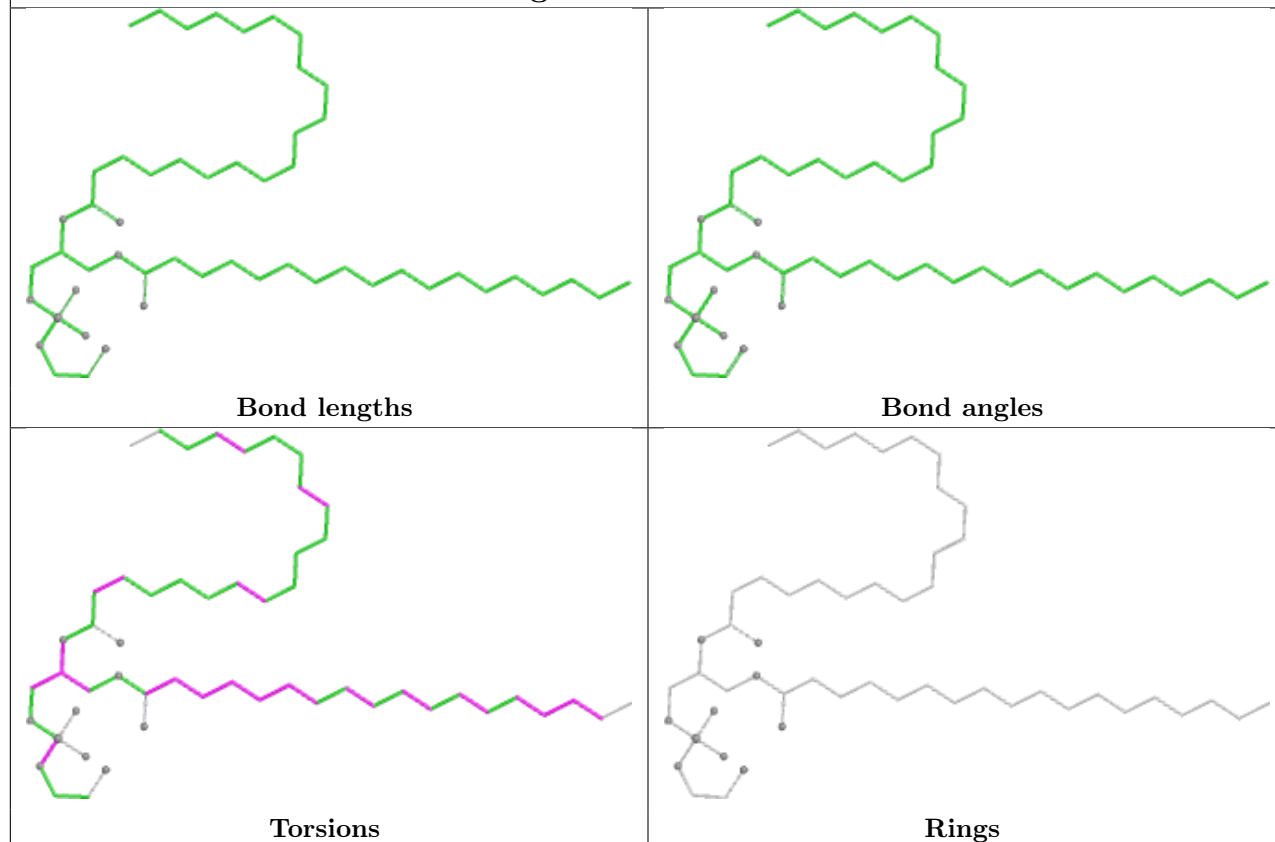
Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	S	2503	EDO	1	0
23	Z	101	DMU	1	0
29	V	101	SAC	1	0
26	P	313	CDL	8	0
18	A	607	HEA	5	0
22	B	302	TGL	1	0
25	T	103	PEK	4	0
18	N	607	HEA	3	0
22	N	605	TGL	6	0
22	L	101	TGL	1	0
17	P	307	PGV	3	0
19	S	2507	EDO	1	0
20	A	614	SCN	1	0
20	P	312	SCN	1	0
26	C	313	CDL	7	0
18	N	608	HEA	4	0
17	N	620	PGV	11	0
19	G	104	EDO	1	0
25	P	301	PEK	5	0
17	P	306	PGV	2	0
25	P	305	PEK	3	0
19	F	708	EDO	1	0
29	I	102	SAC	1	0
19	R	202	EDO	1	0
17	A	605	PGV	2	0
23	C	301	DMU	1	0
19	C	310	EDO	2	0
20	C	312	SCN	3	0
22	D	201	TGL	5	0
17	C	305	PGV	4	0

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

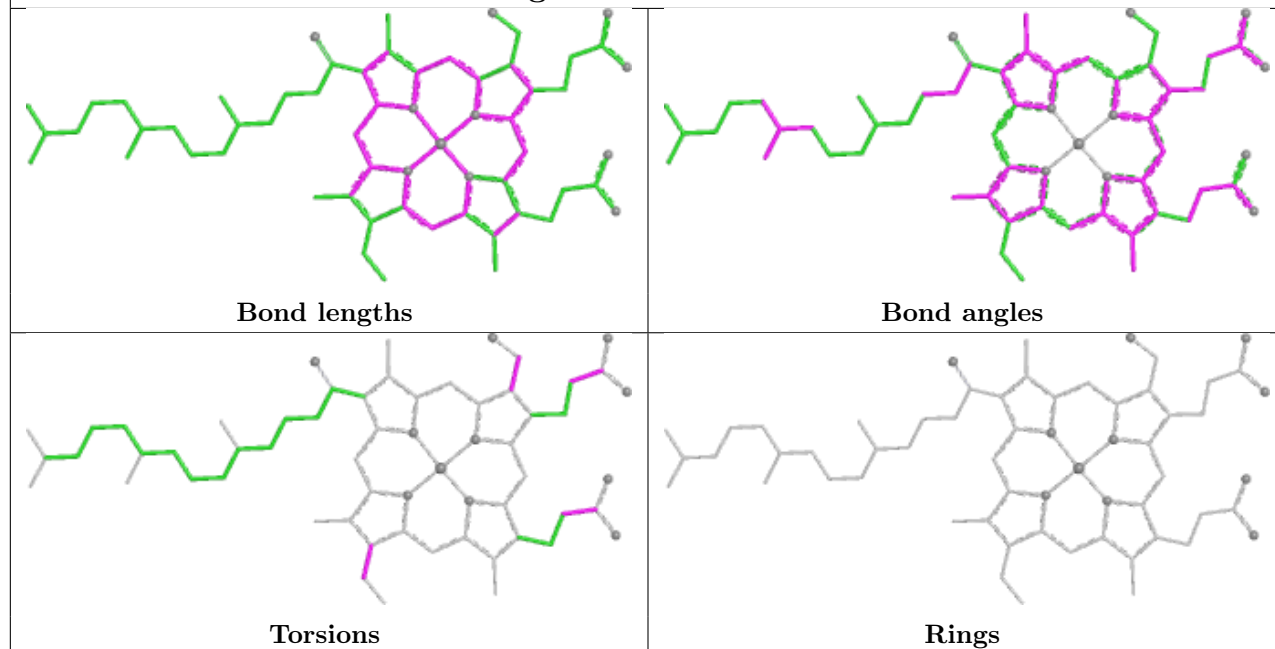


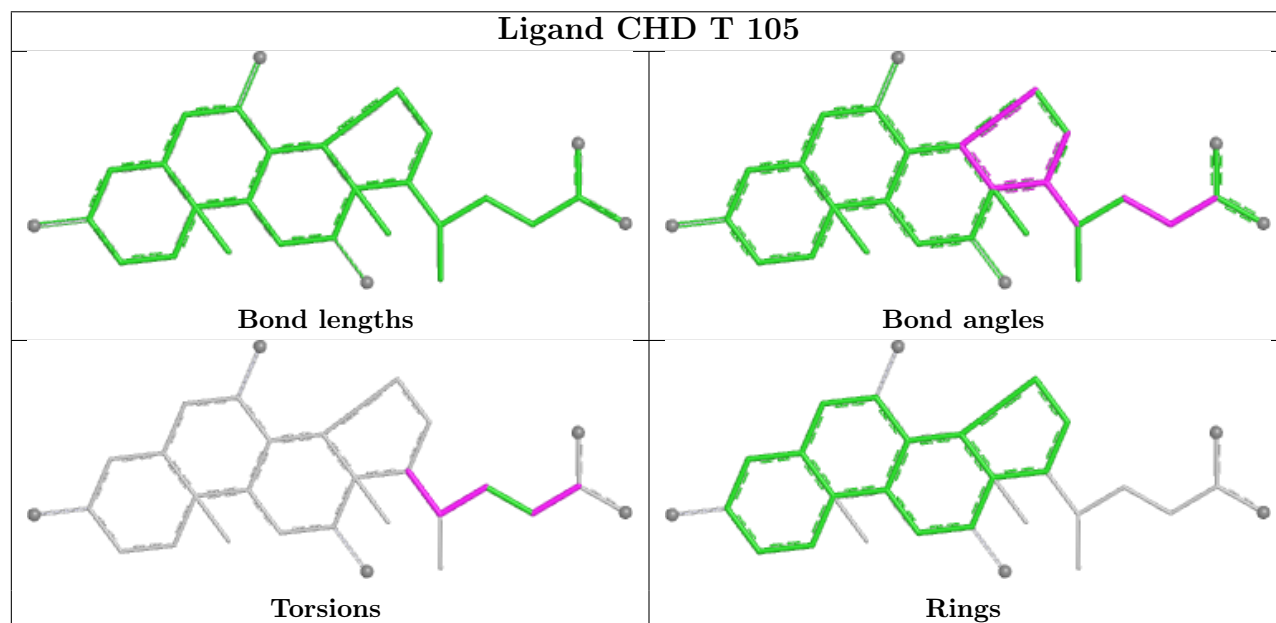
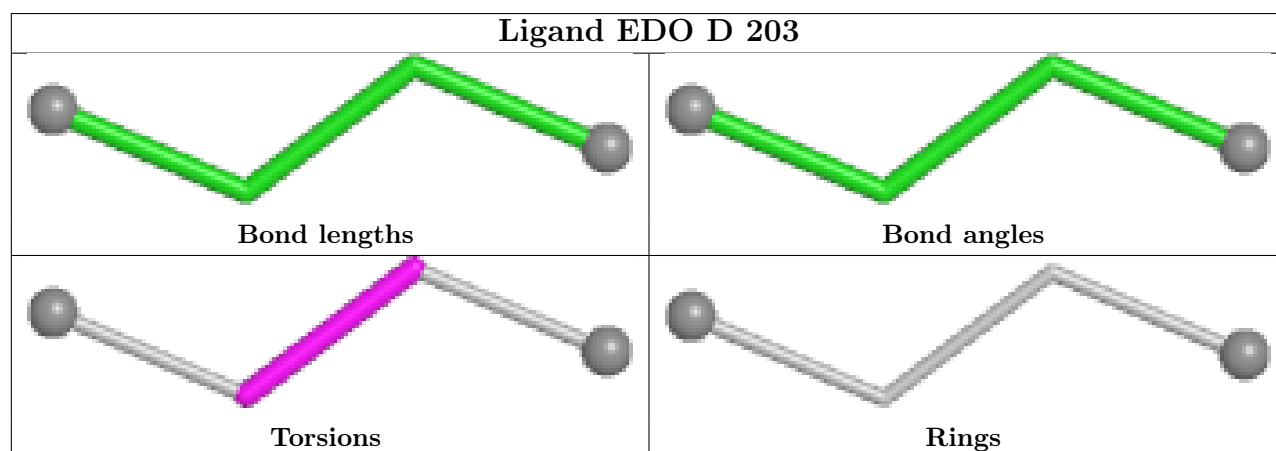
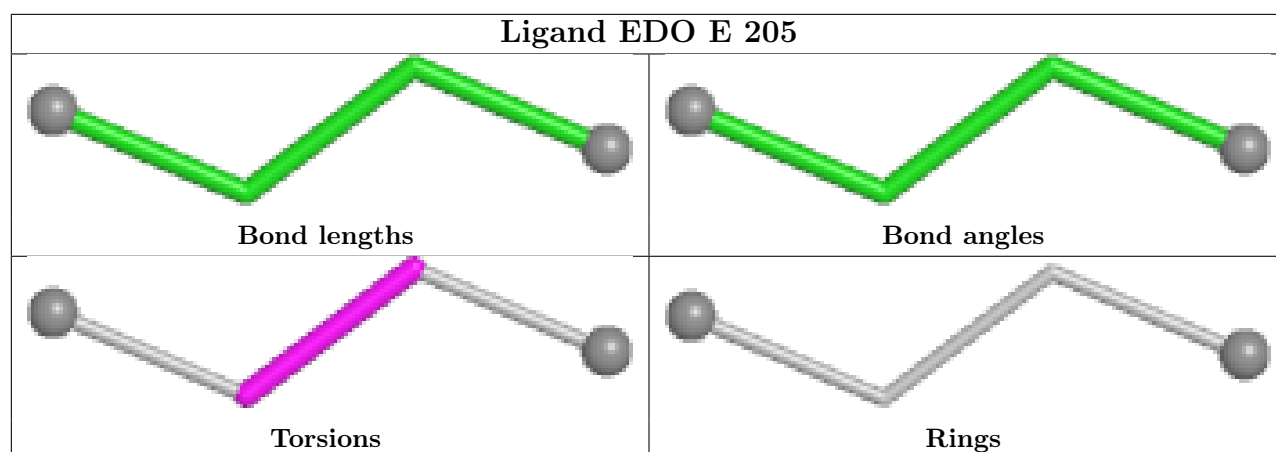


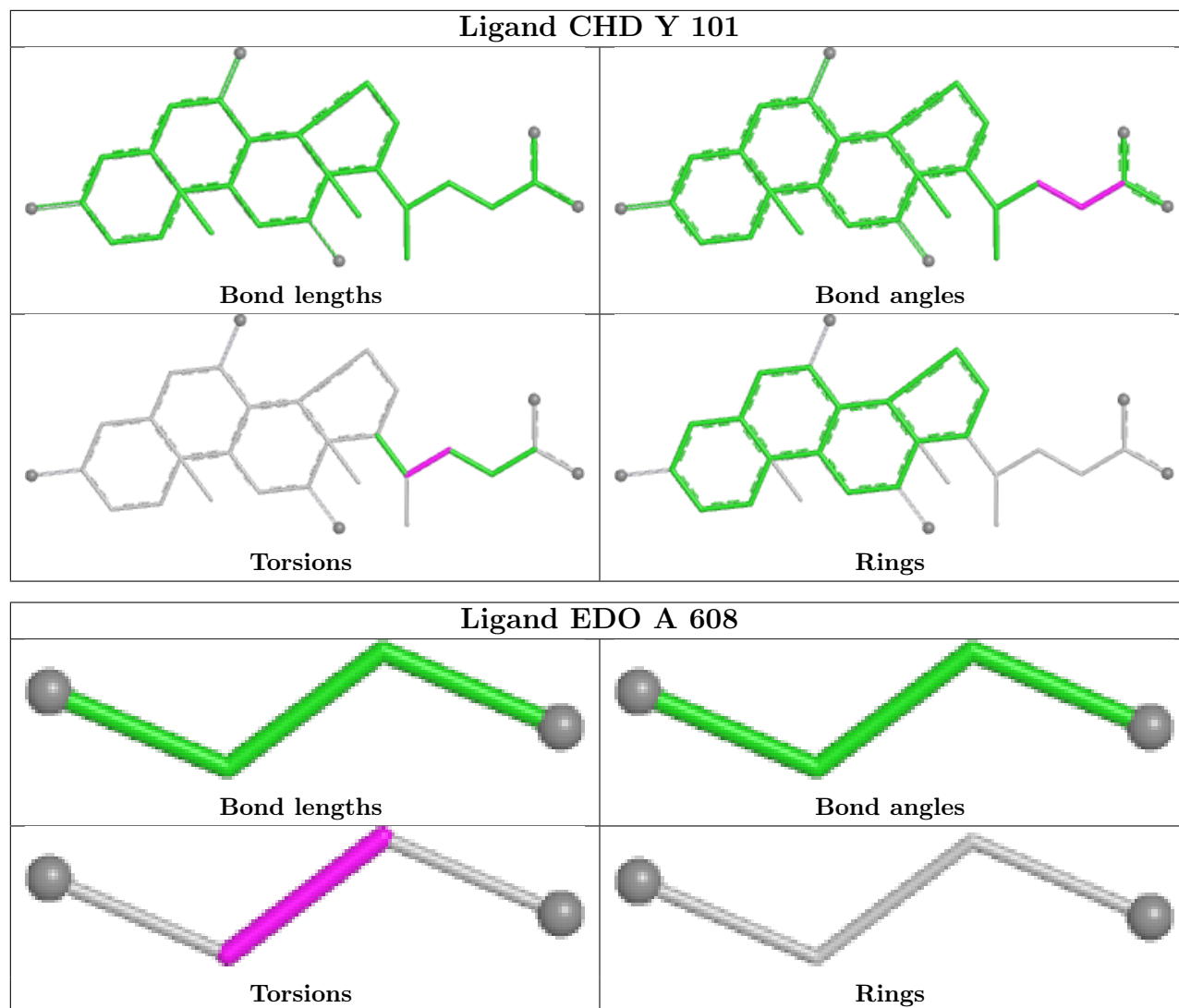
Ligand PEK C 303



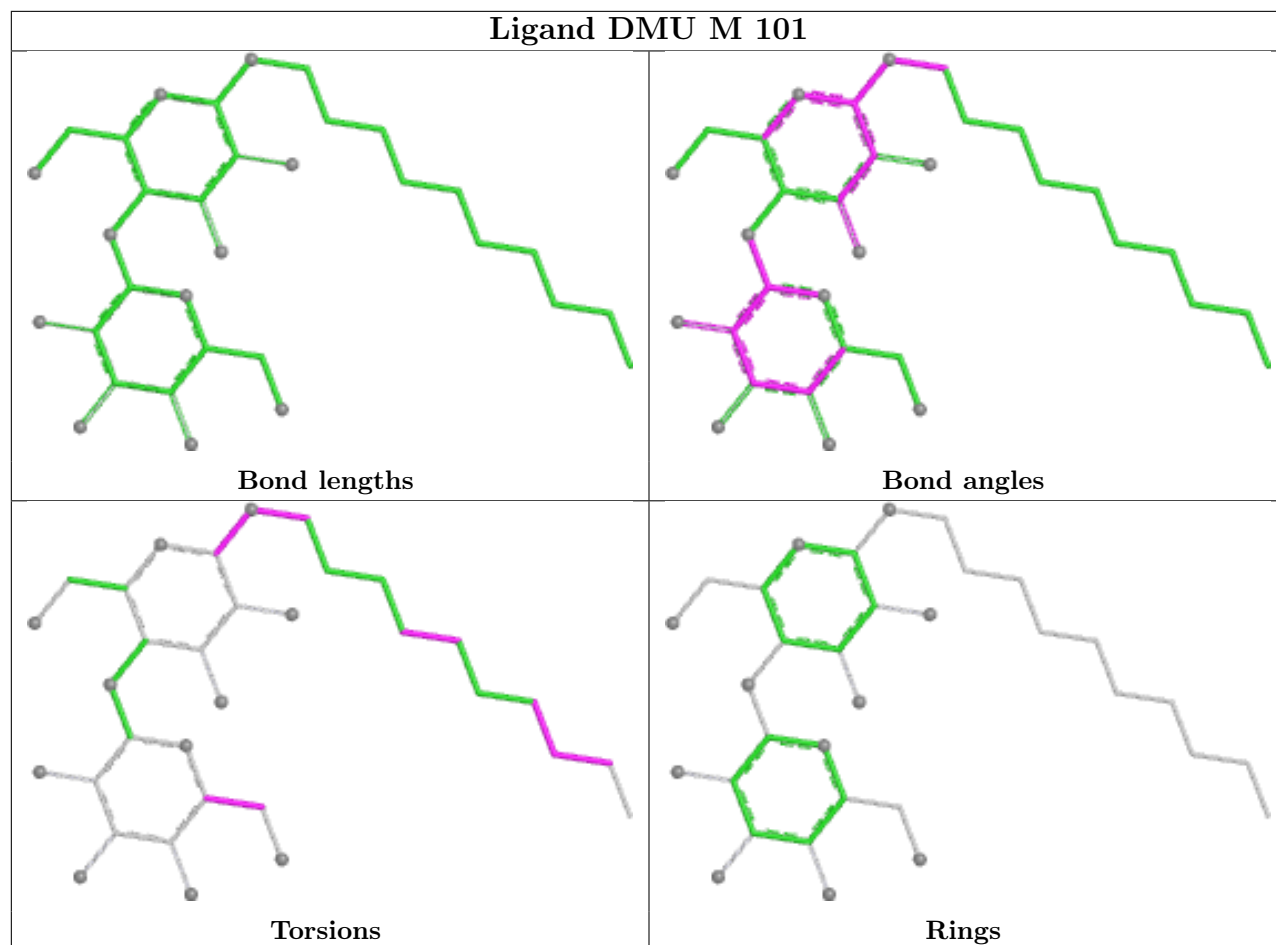
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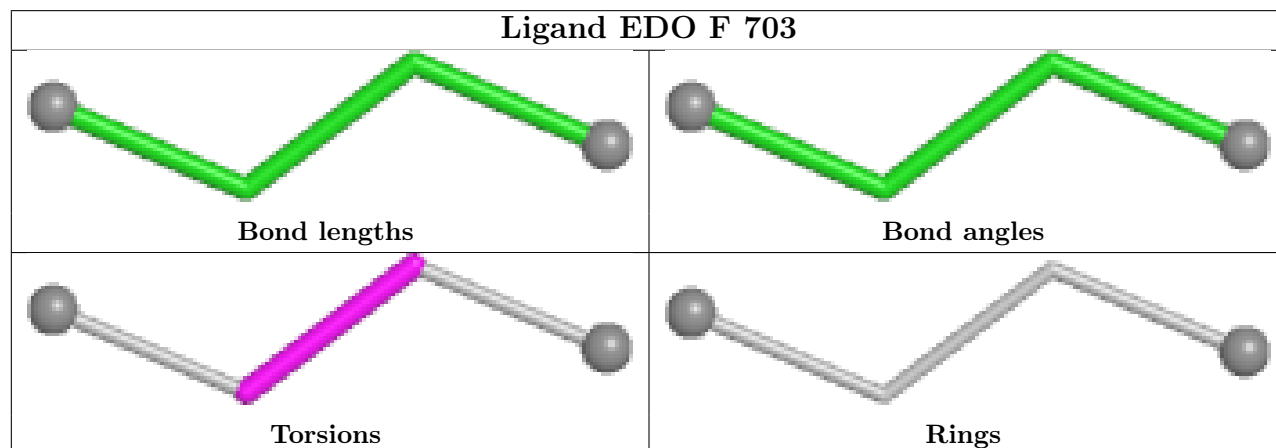


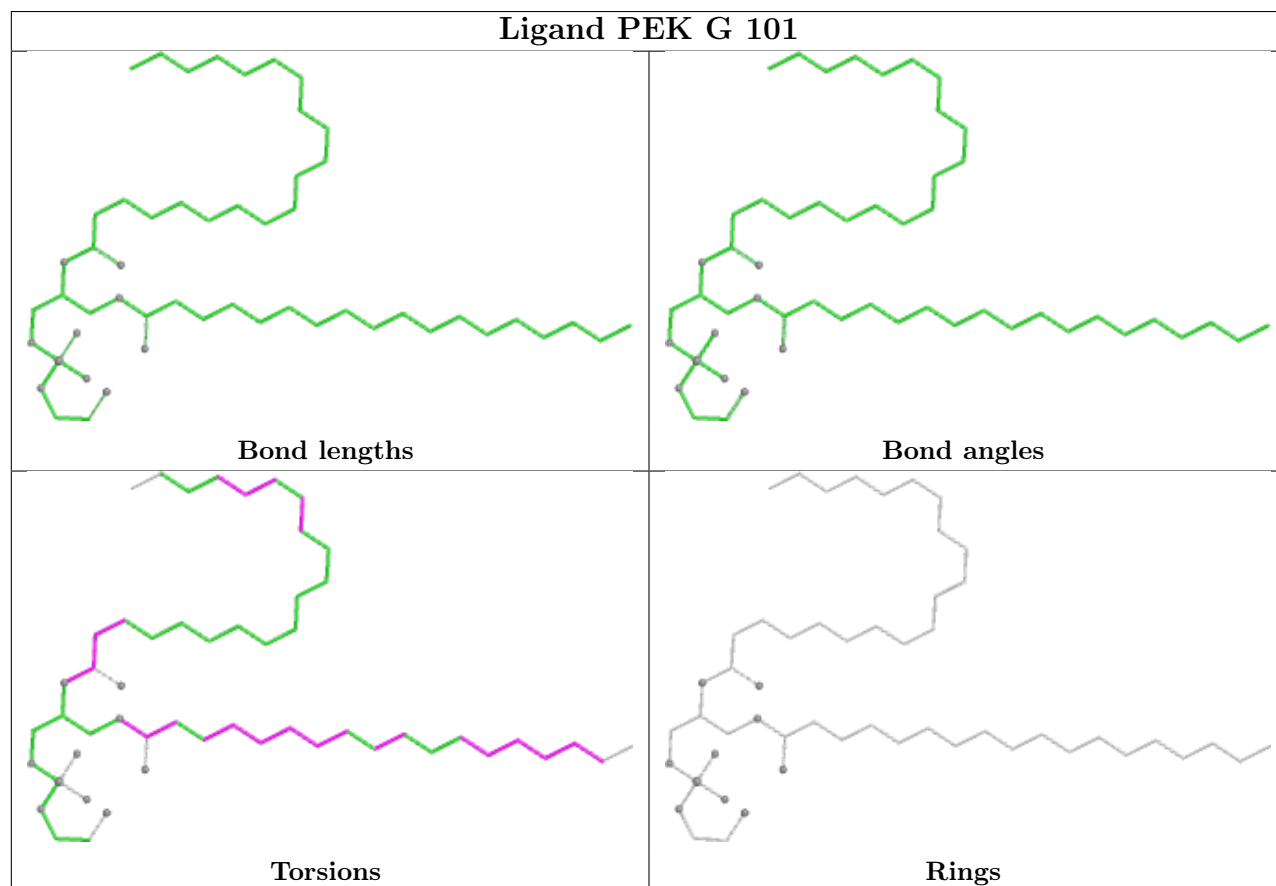
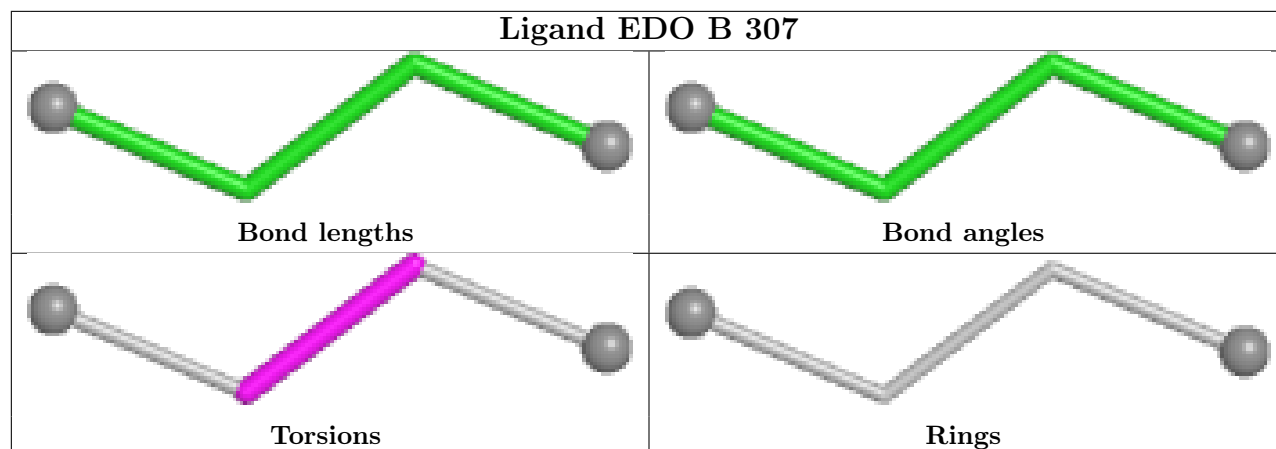


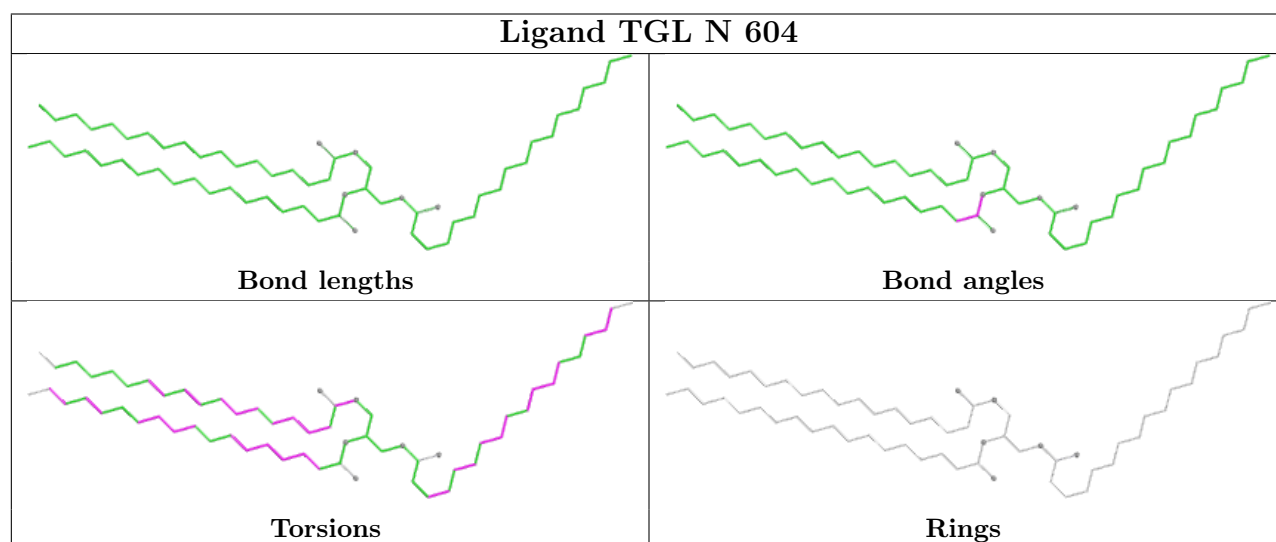
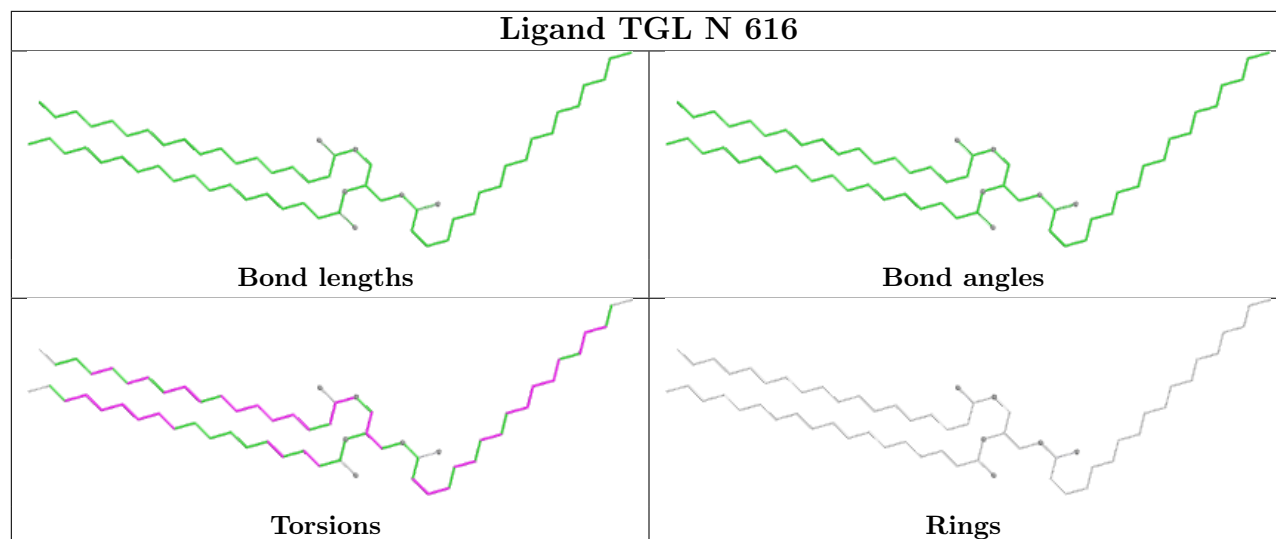
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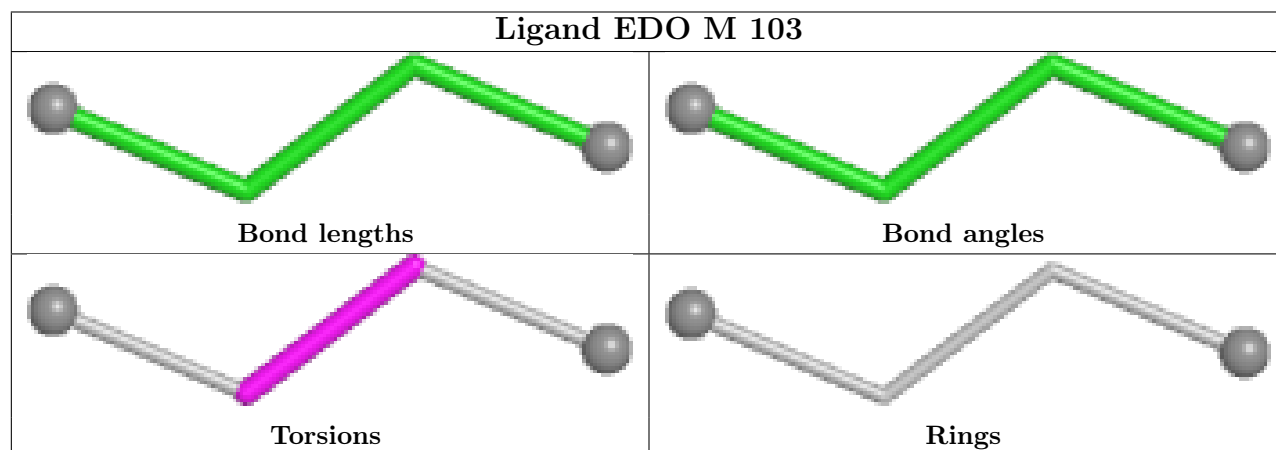
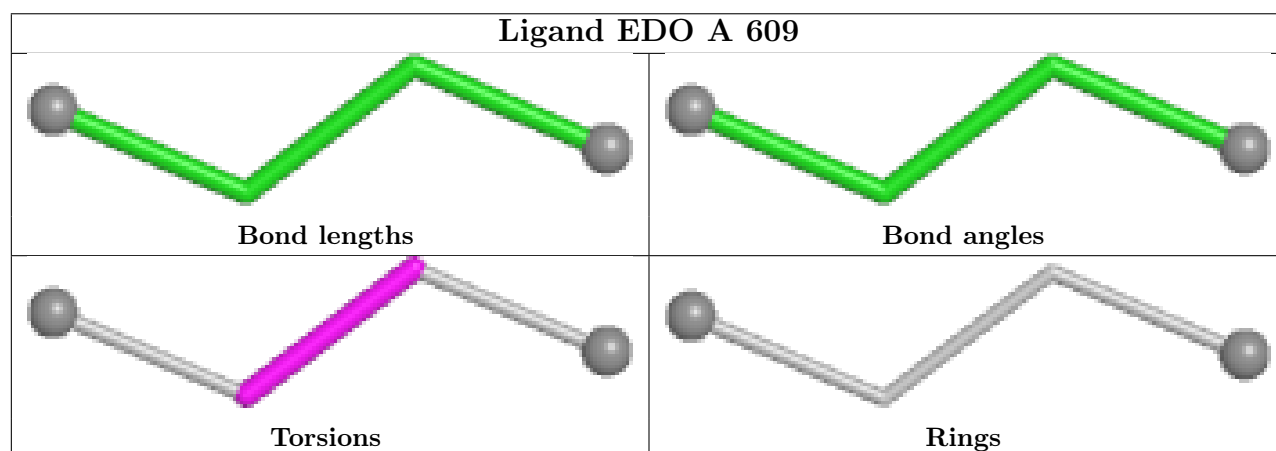
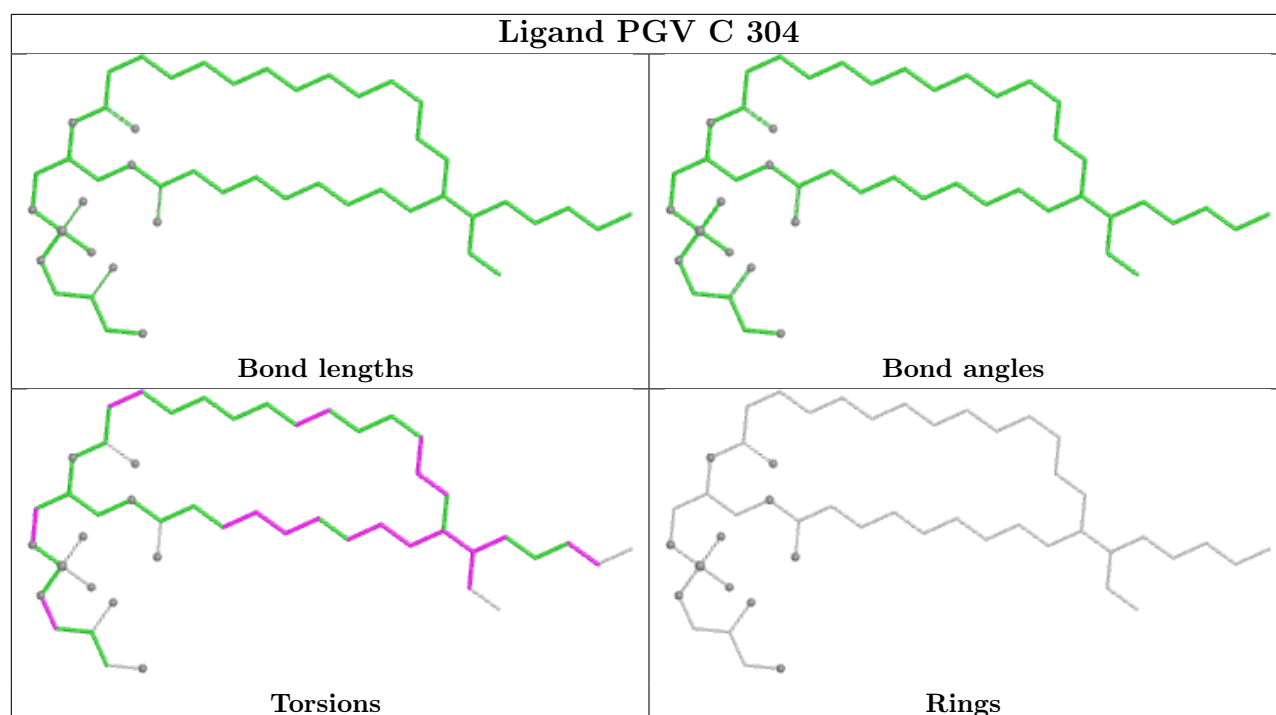


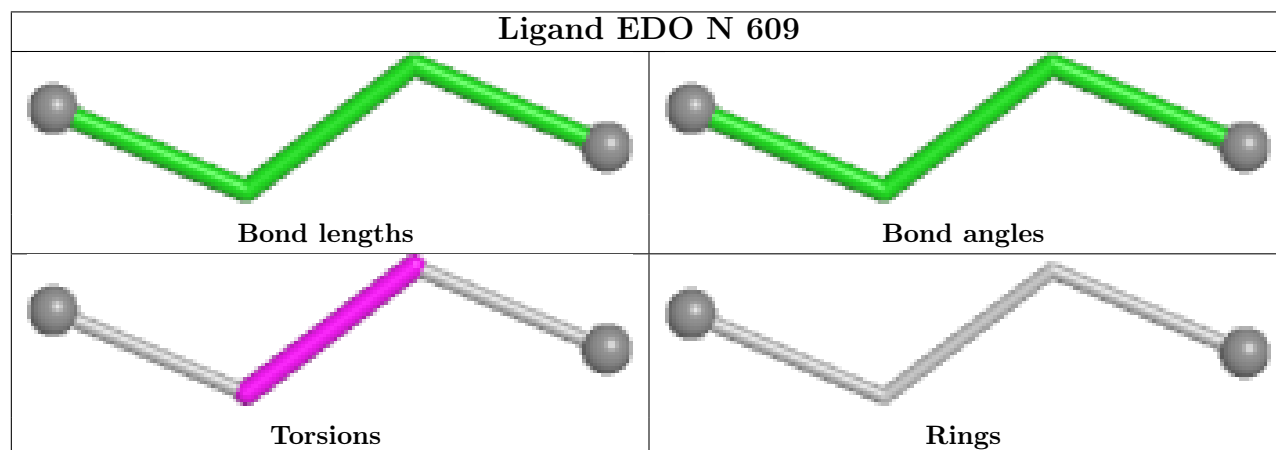
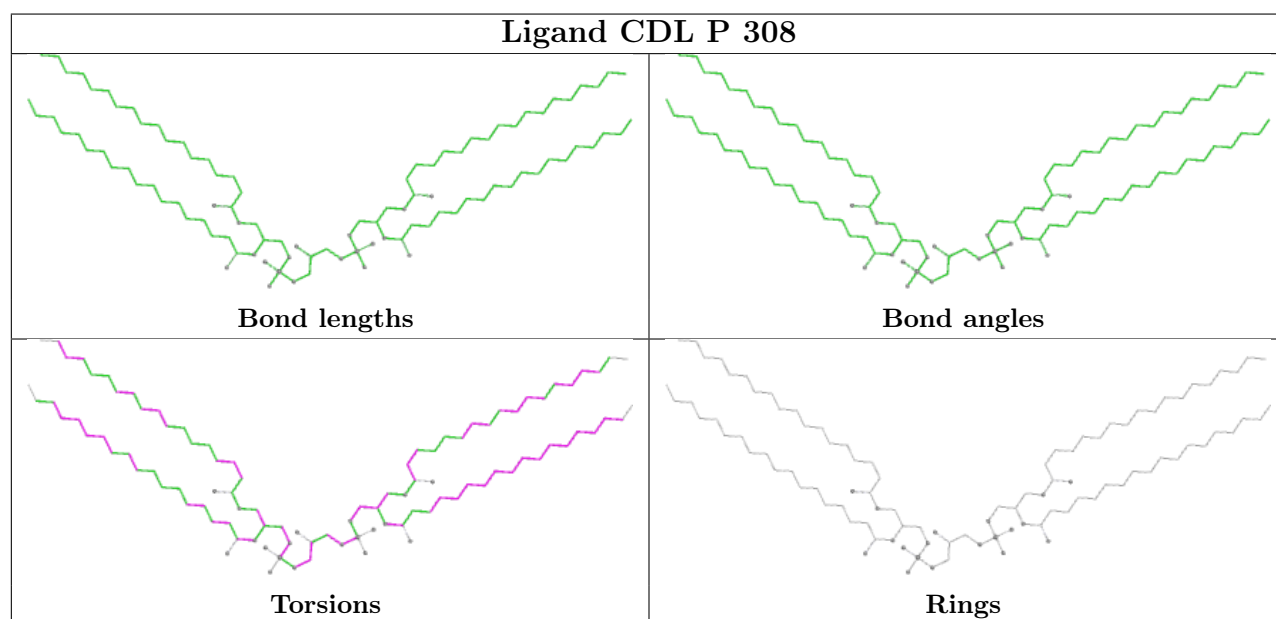
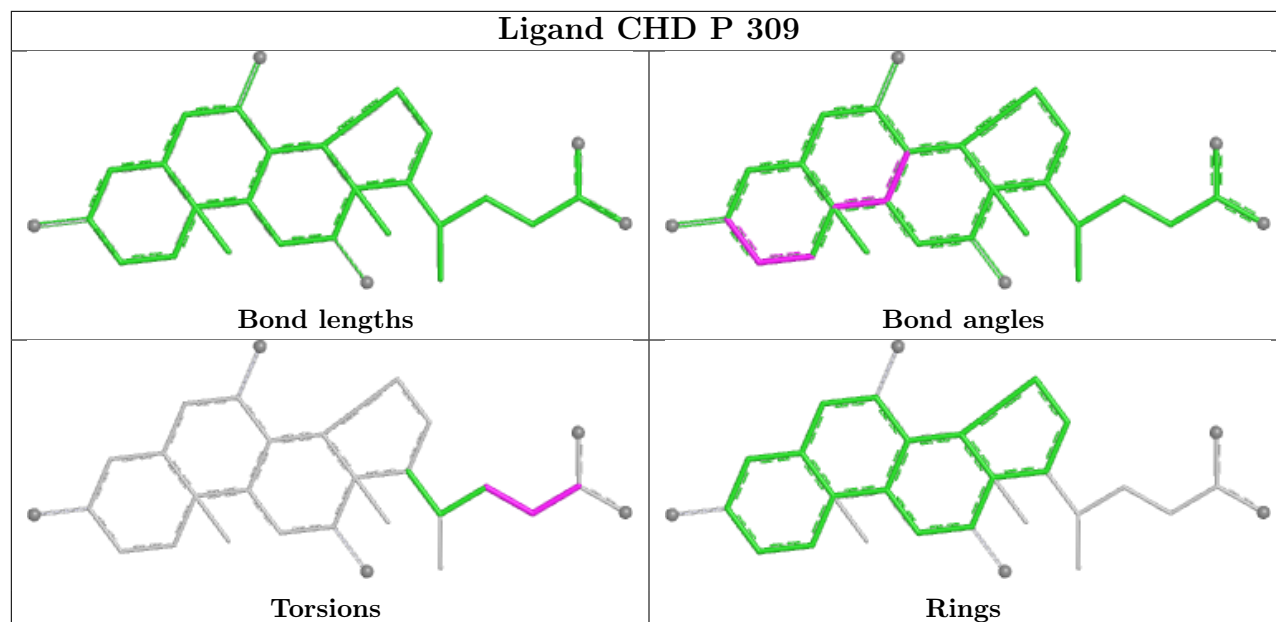
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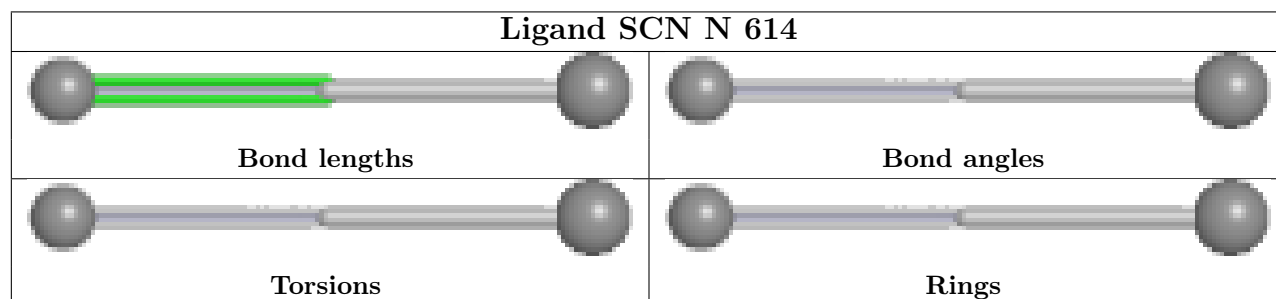
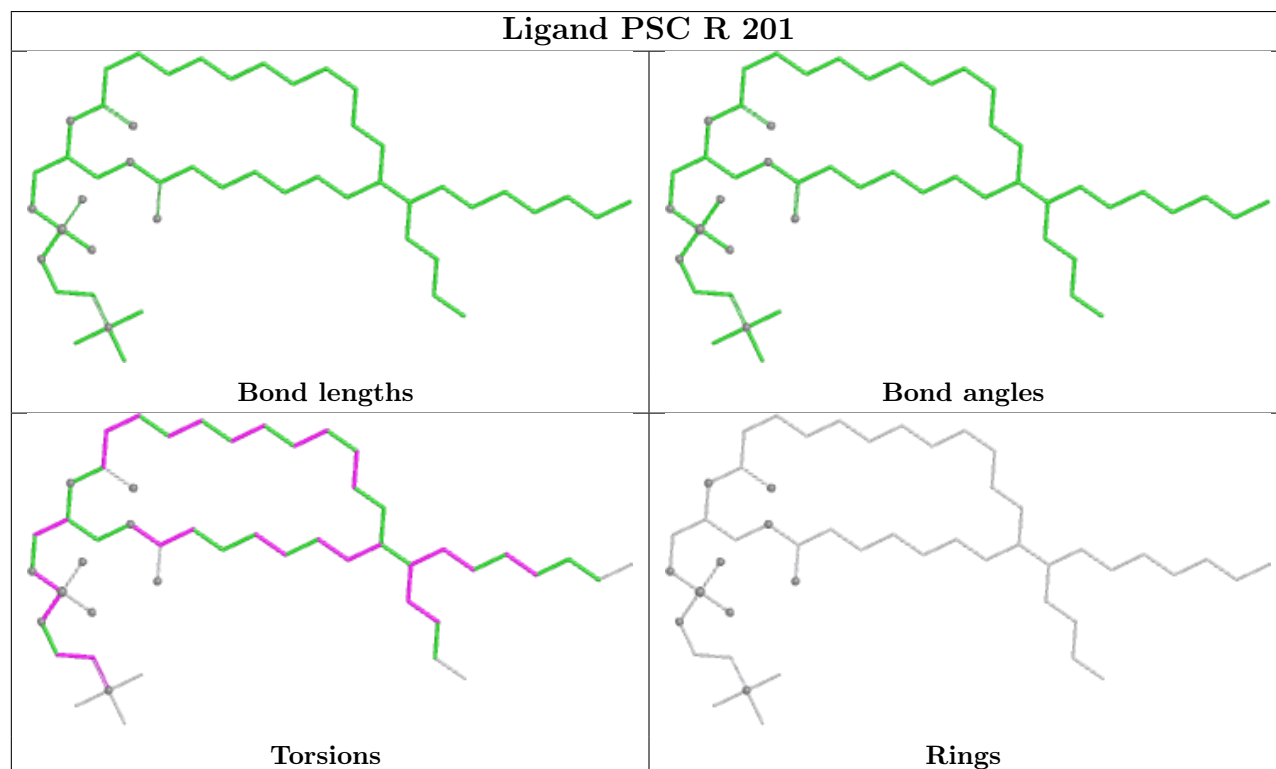
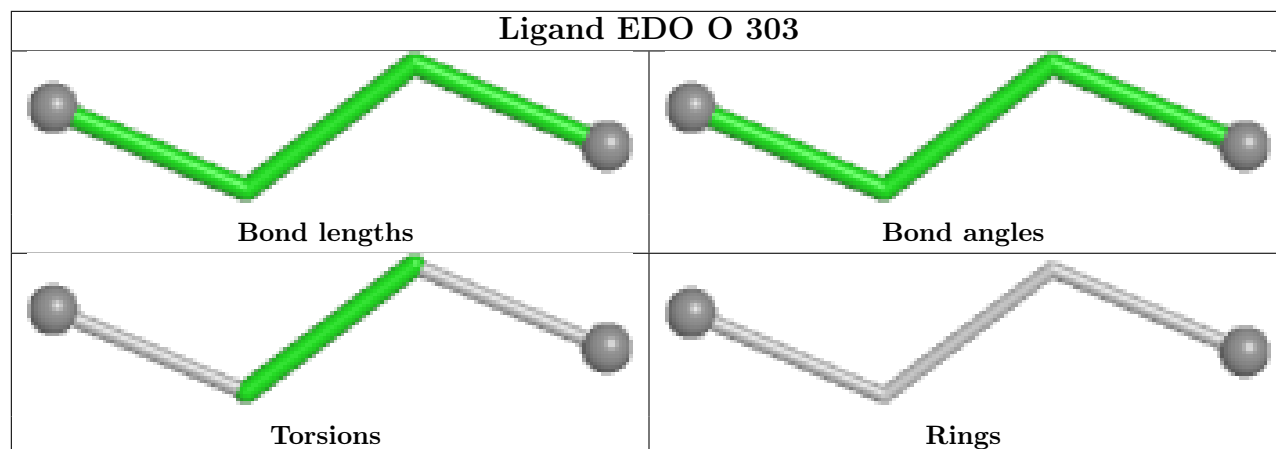


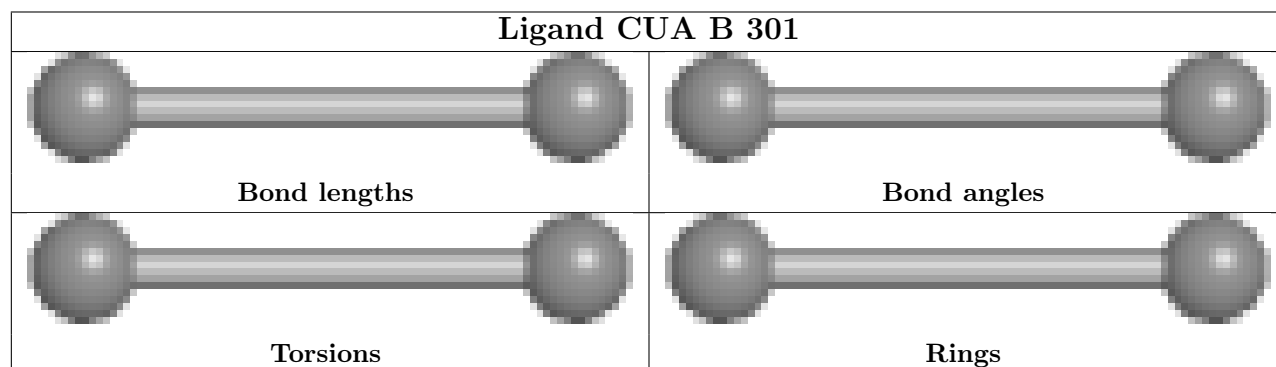
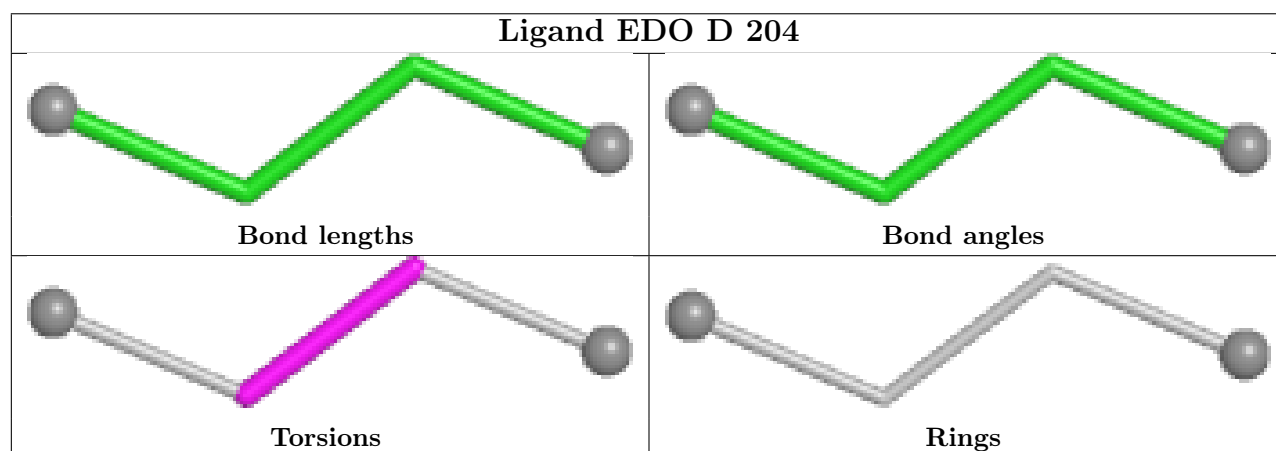
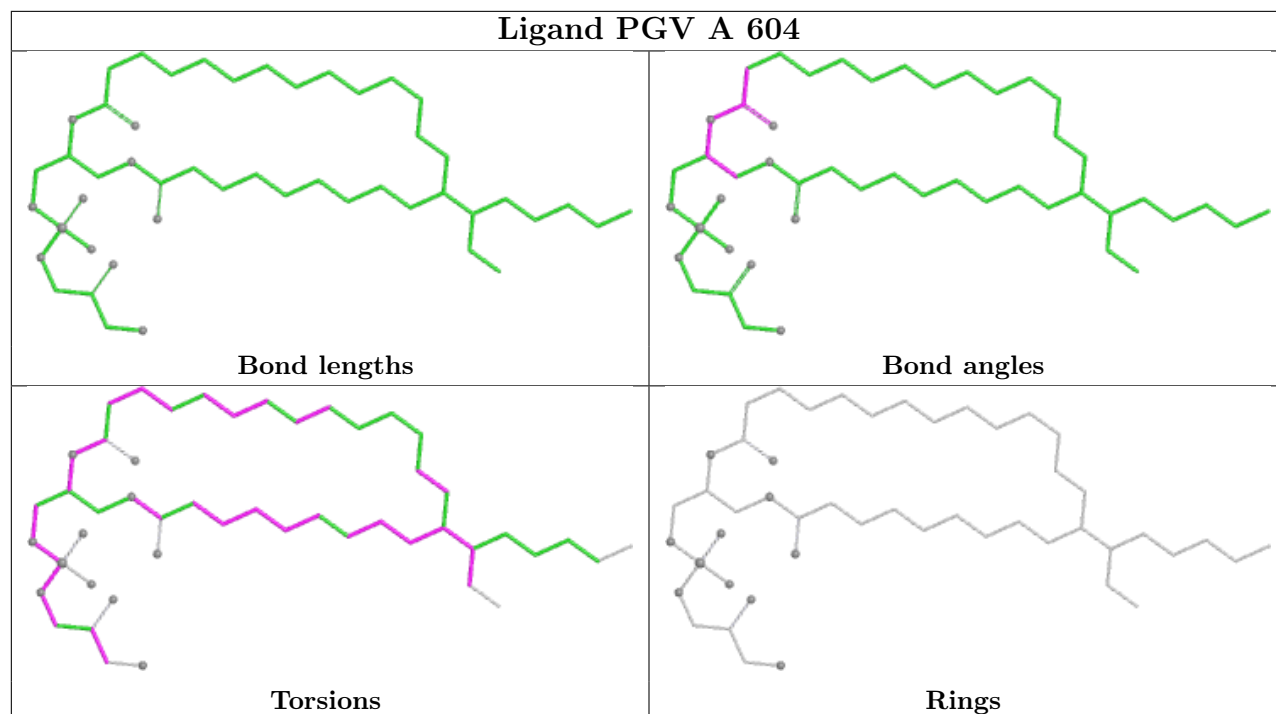


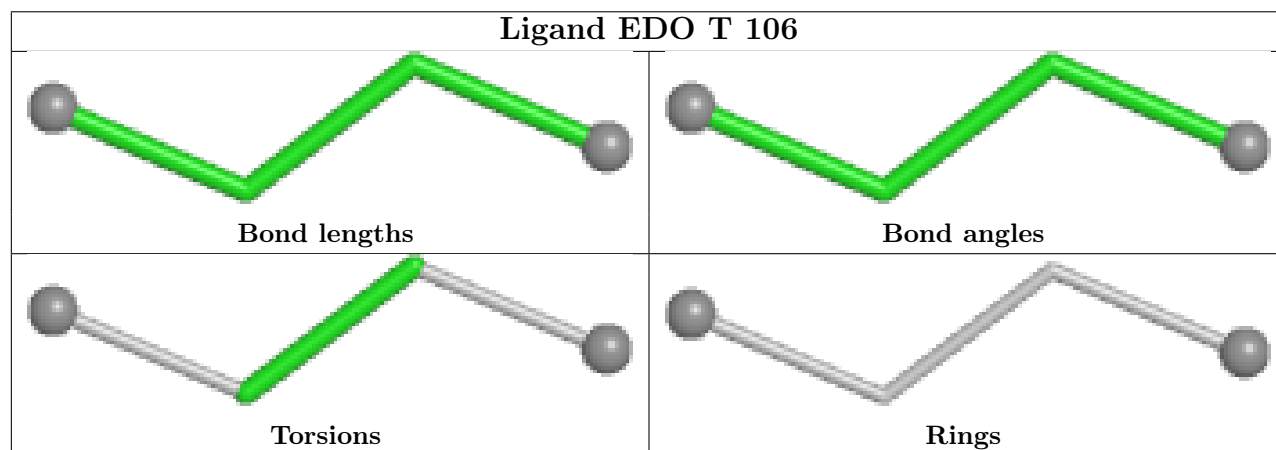
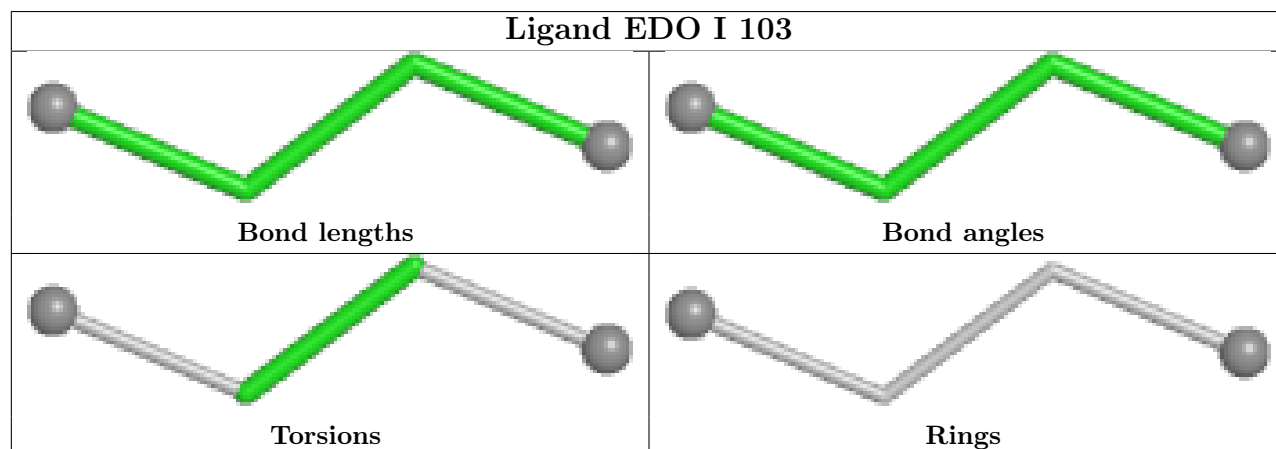
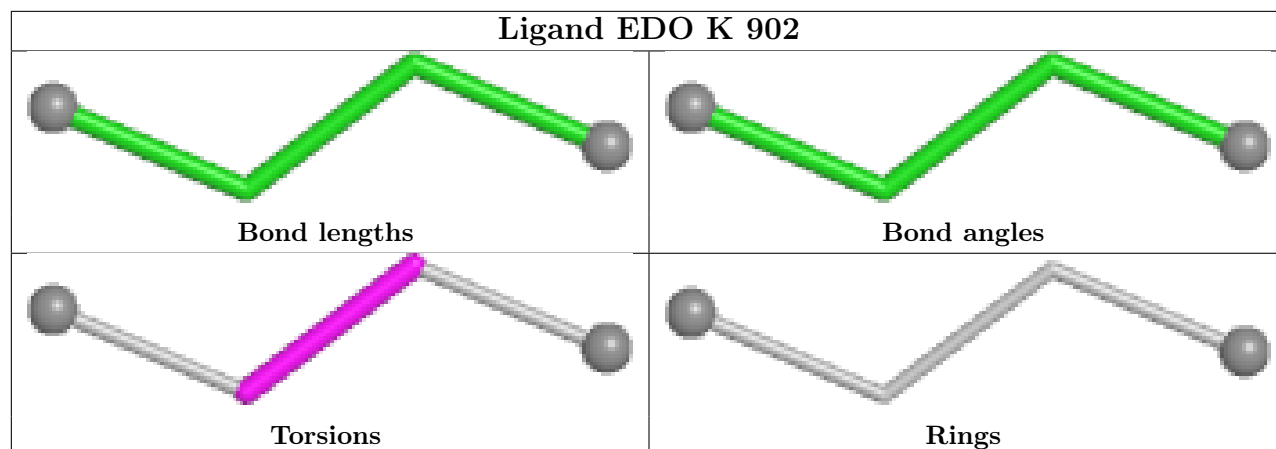


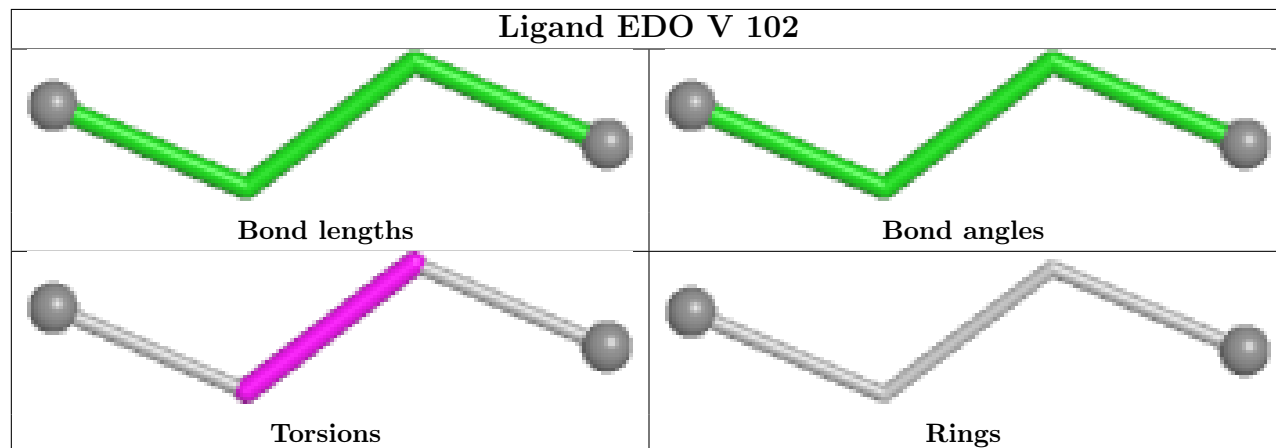
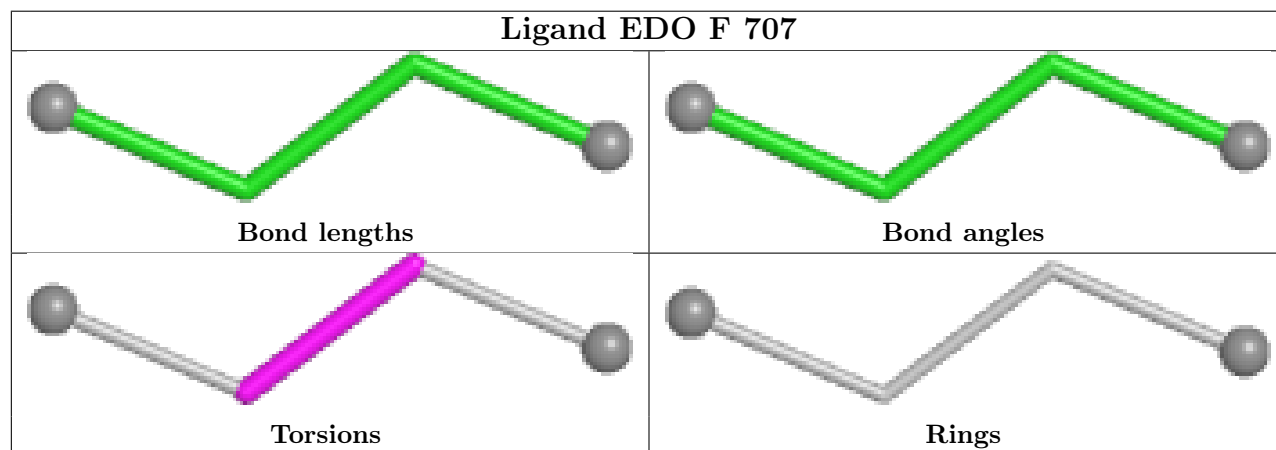
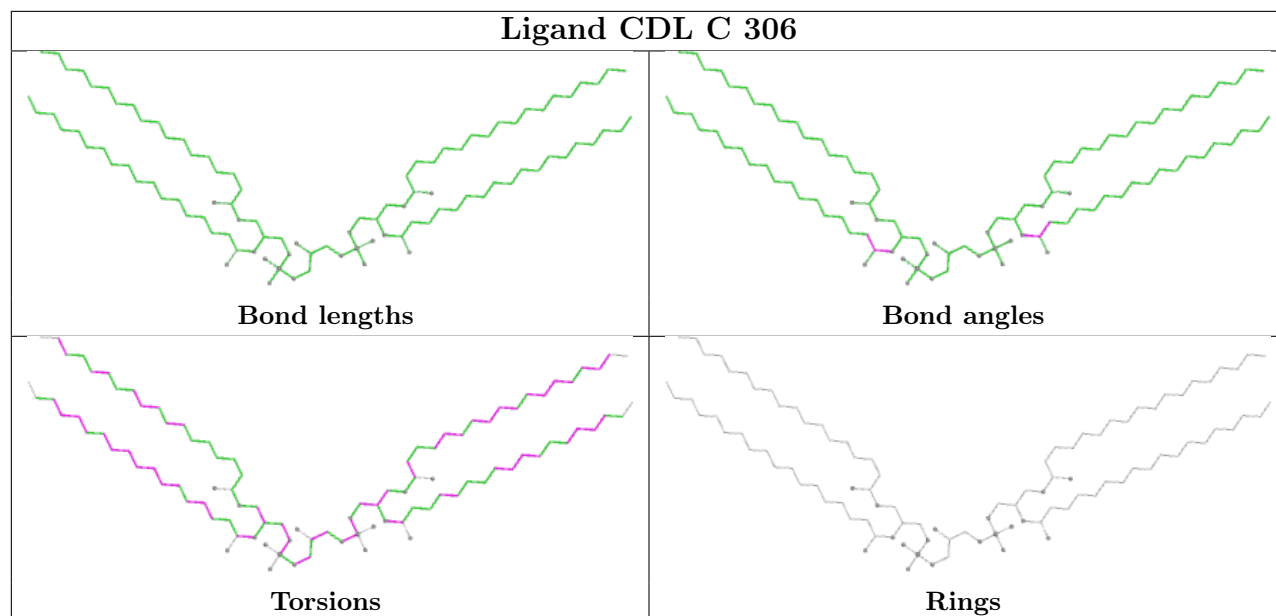


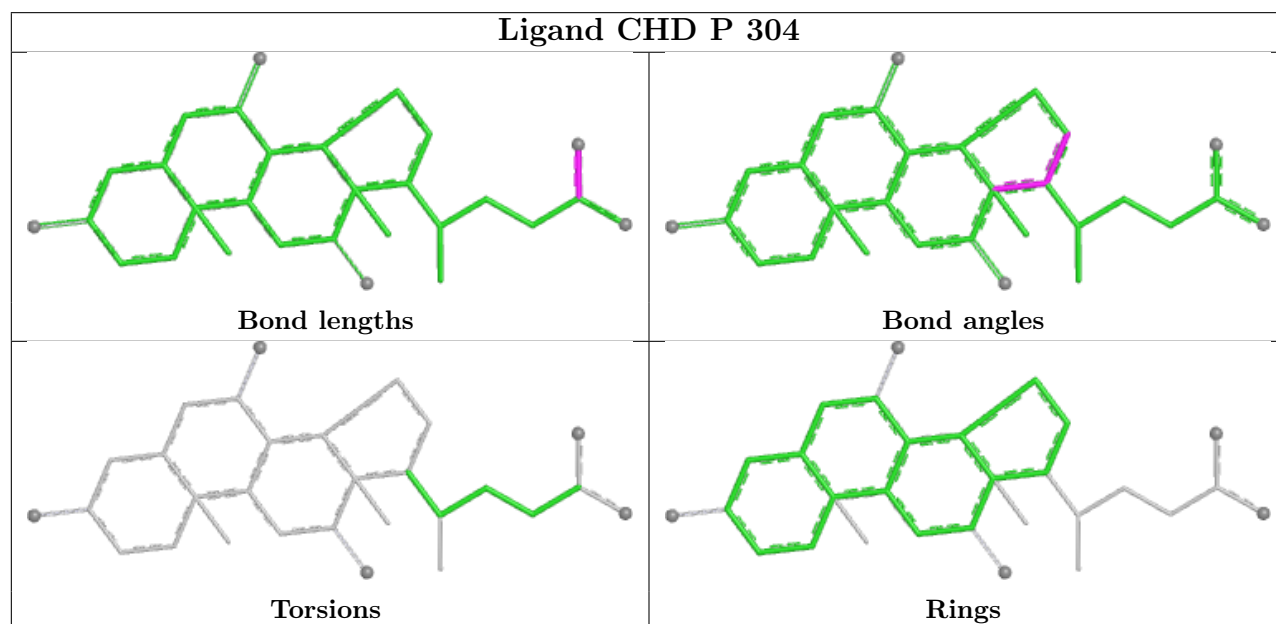
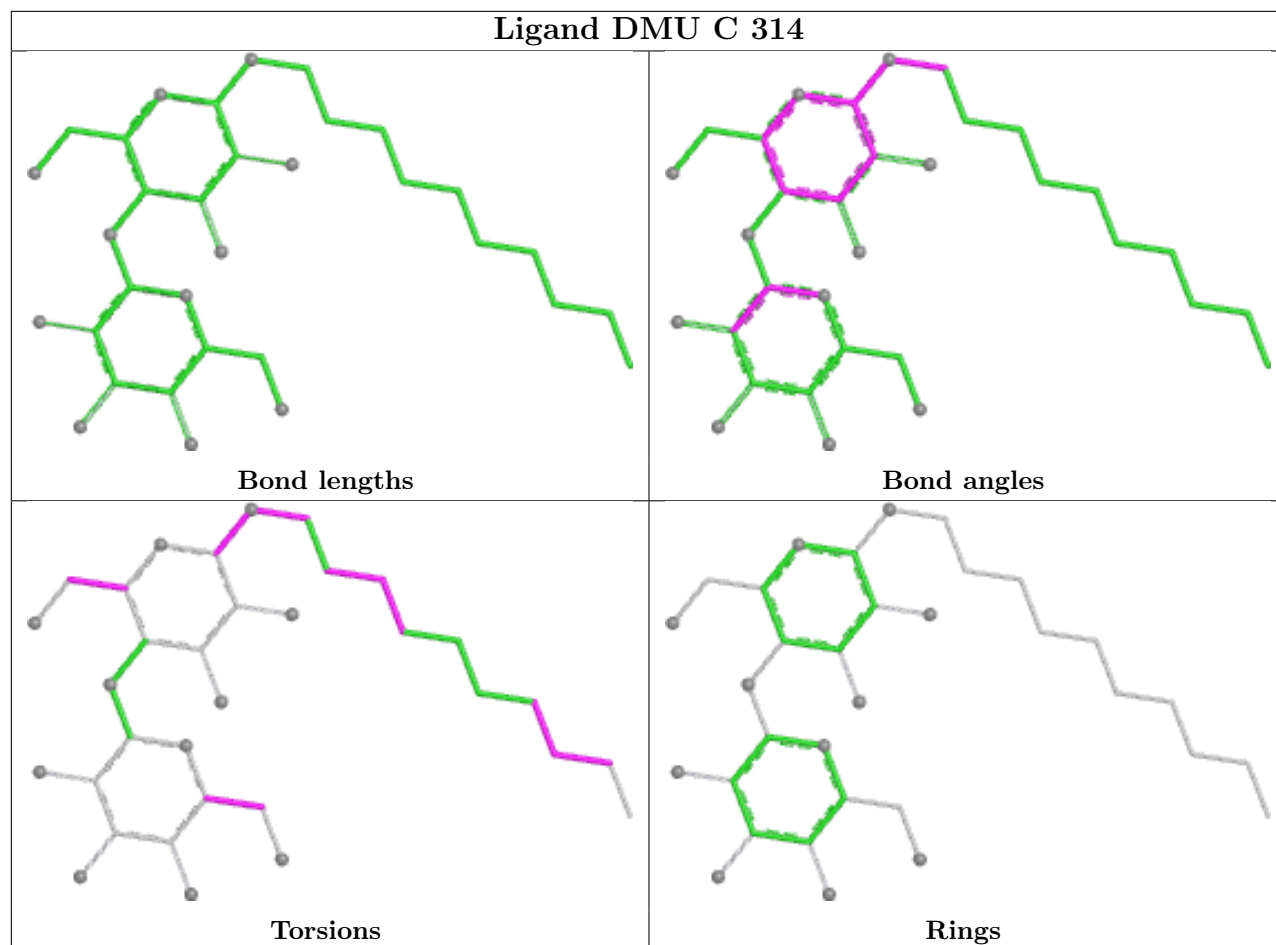


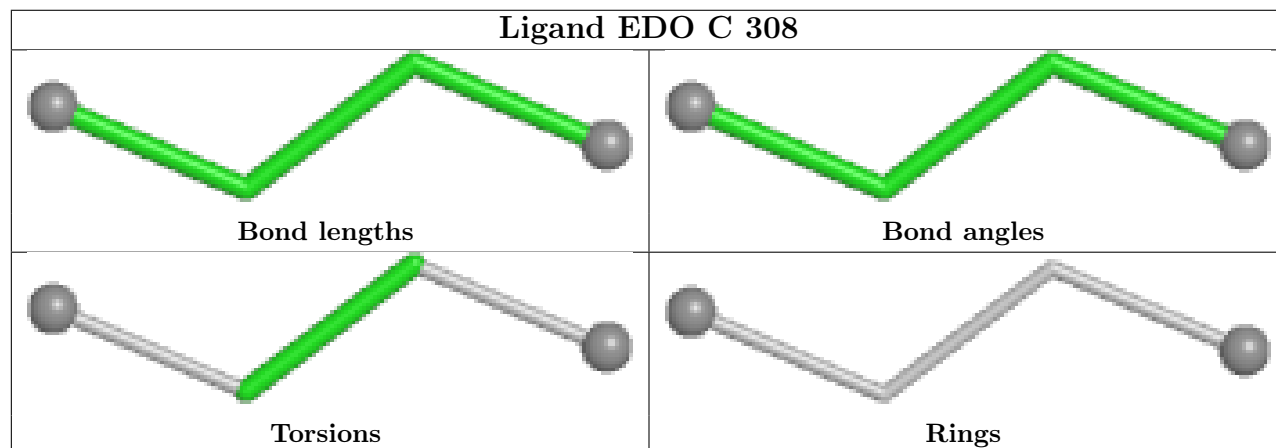
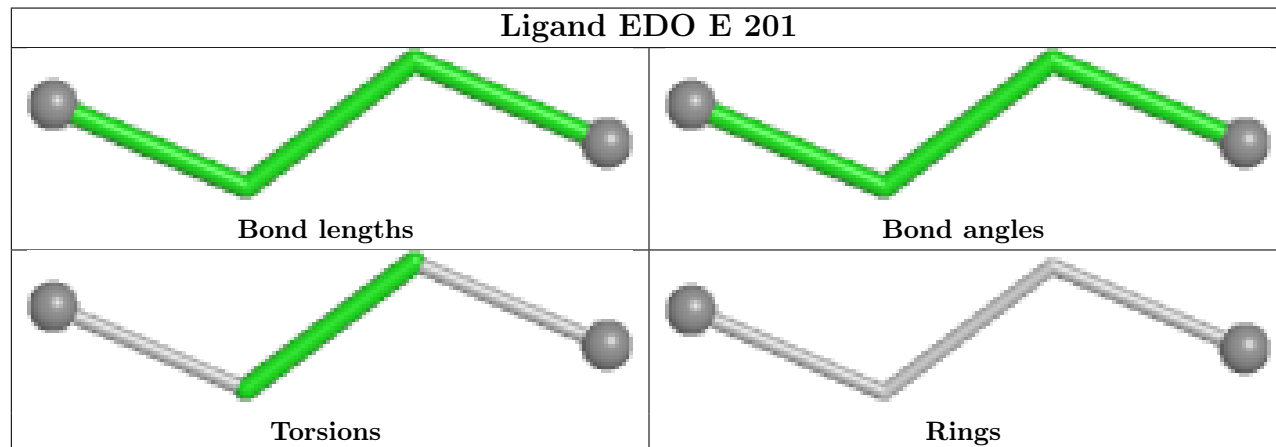
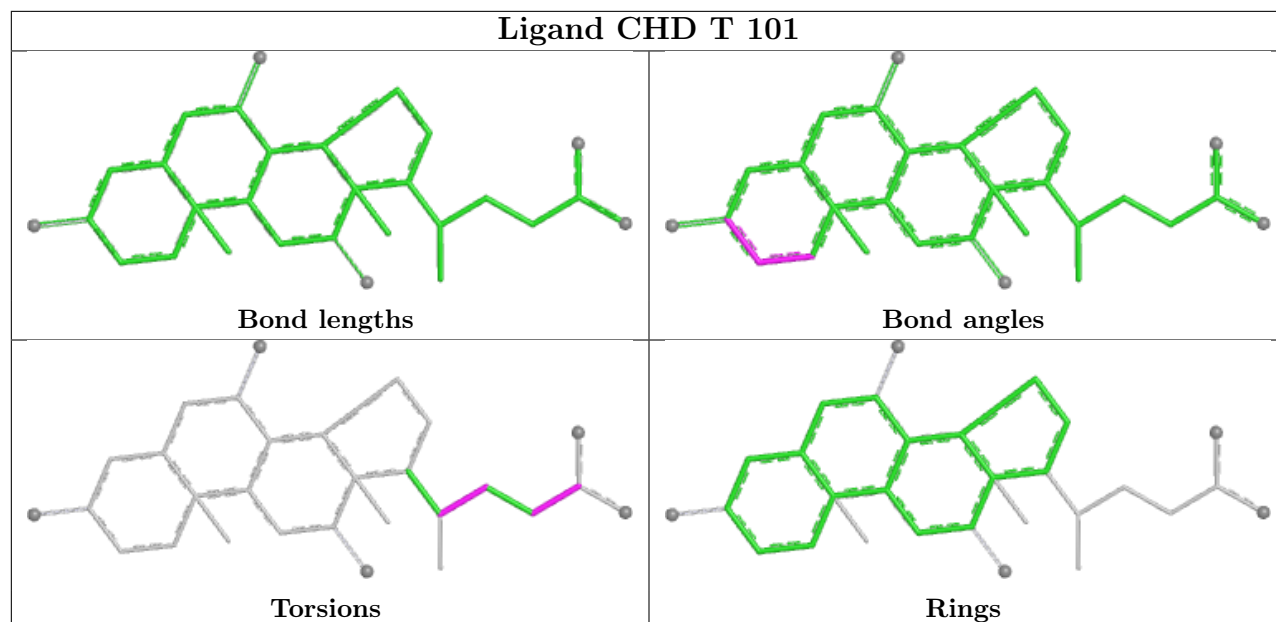


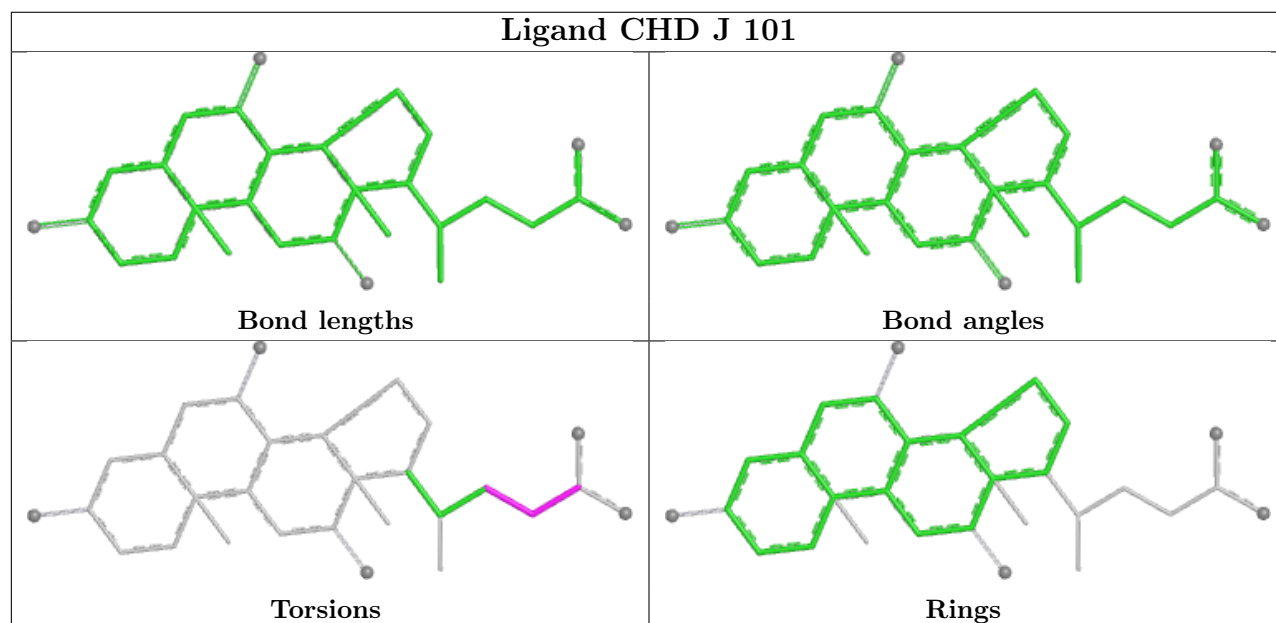
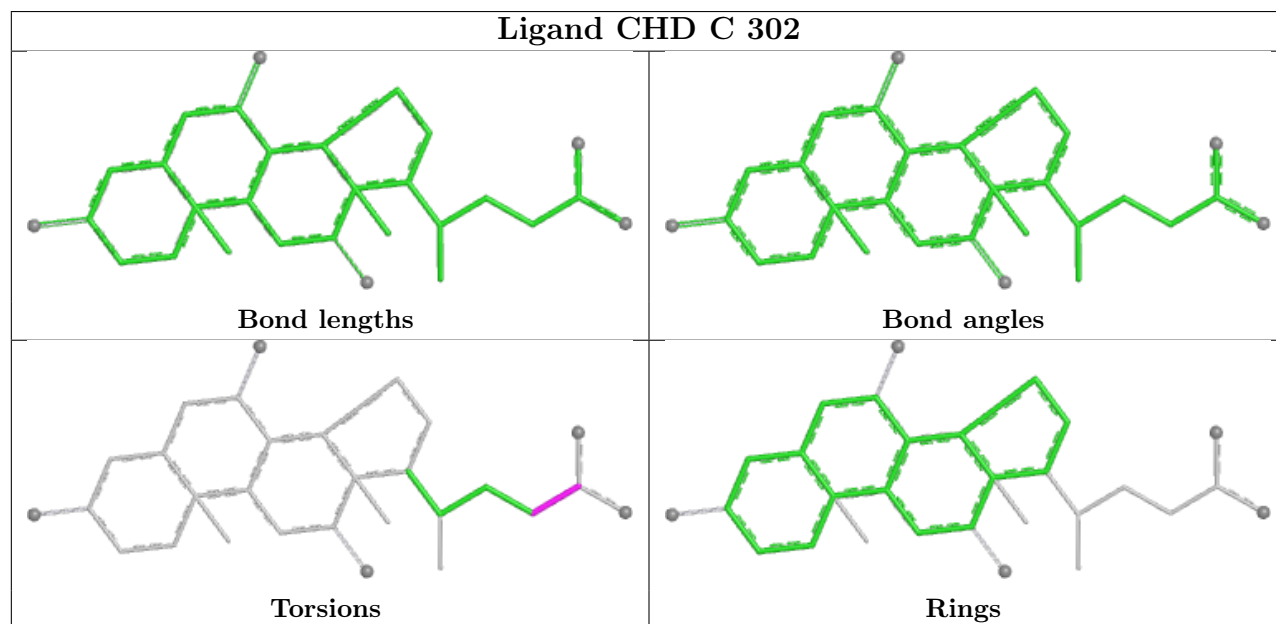
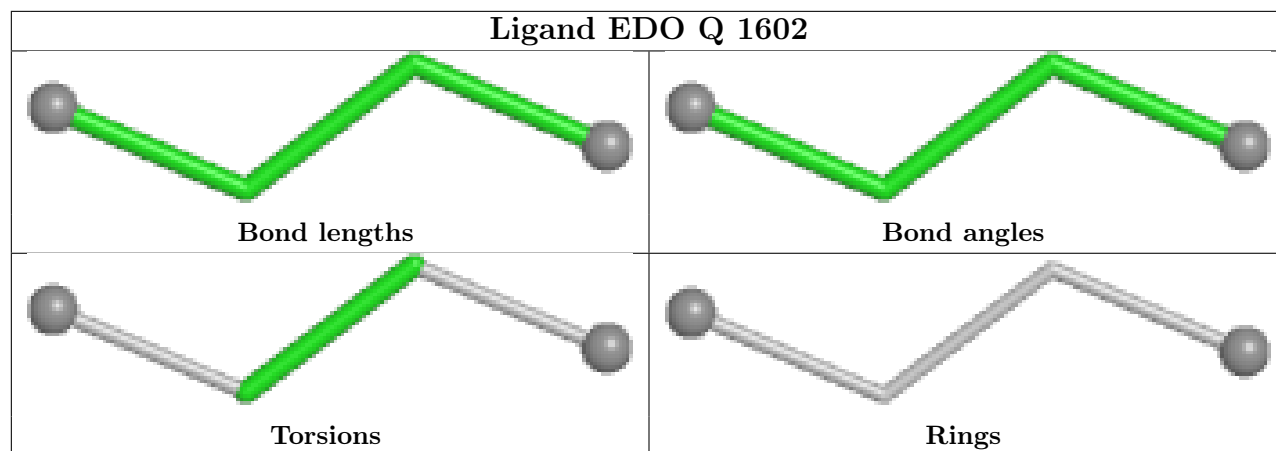


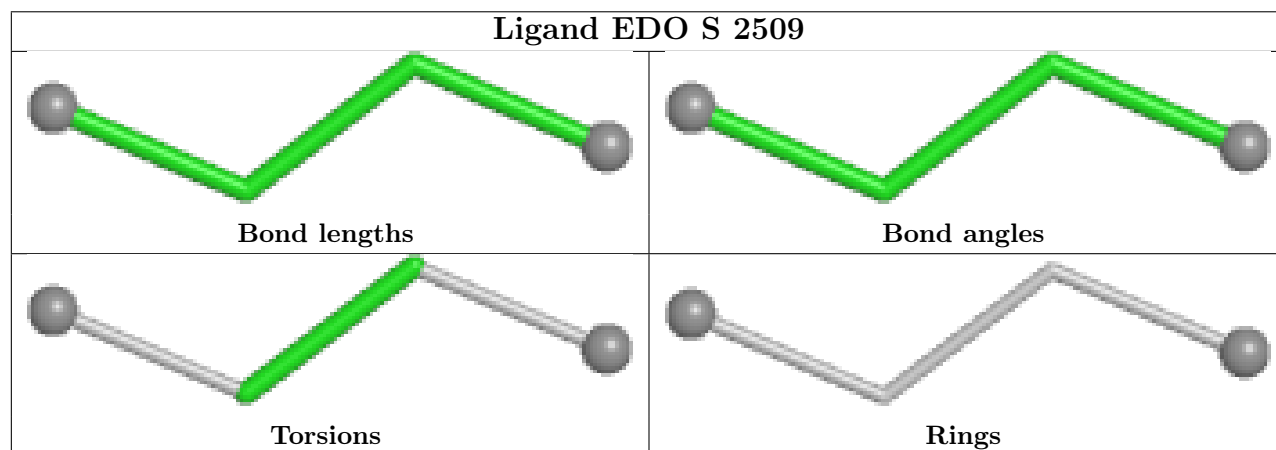
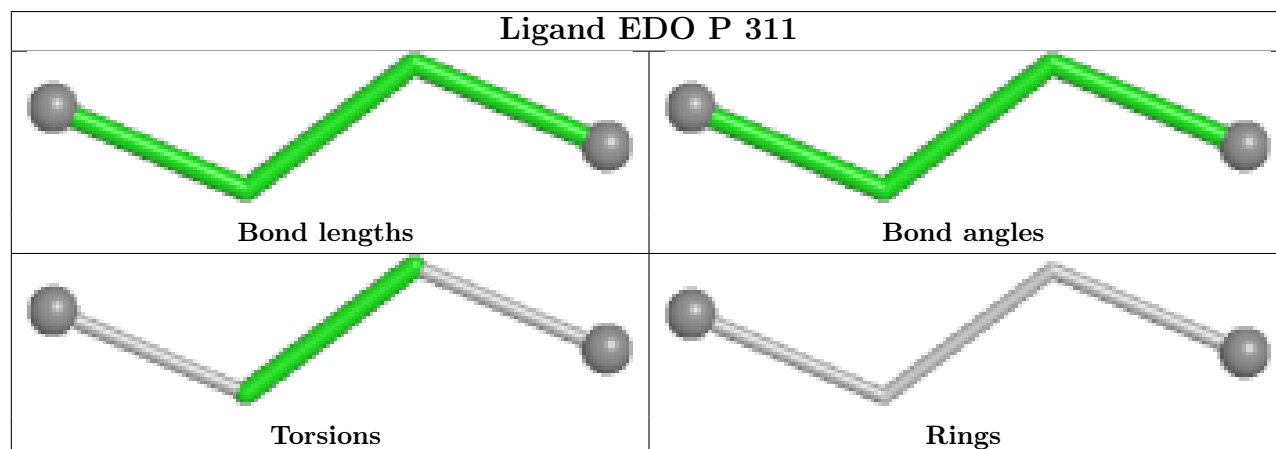
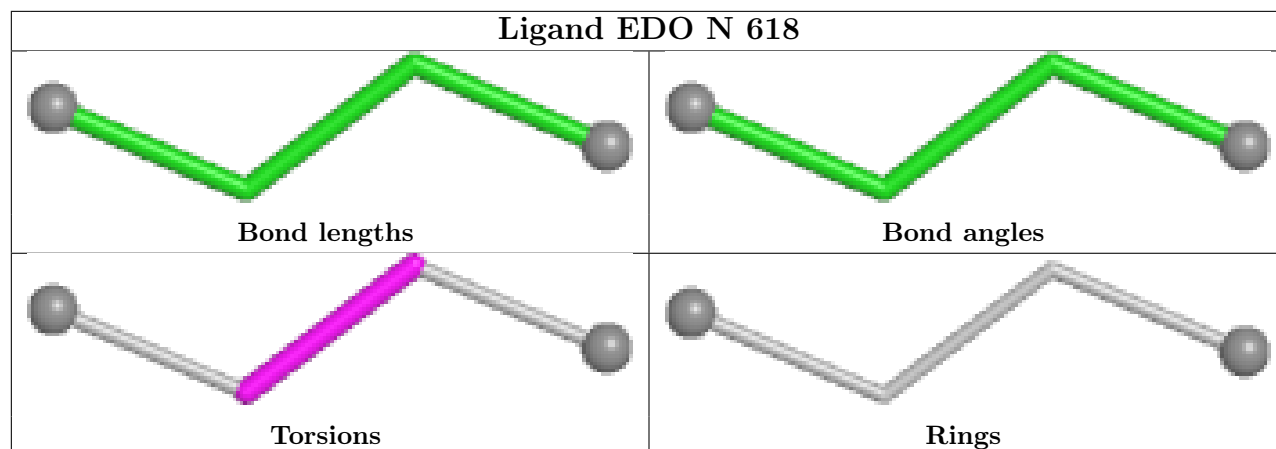




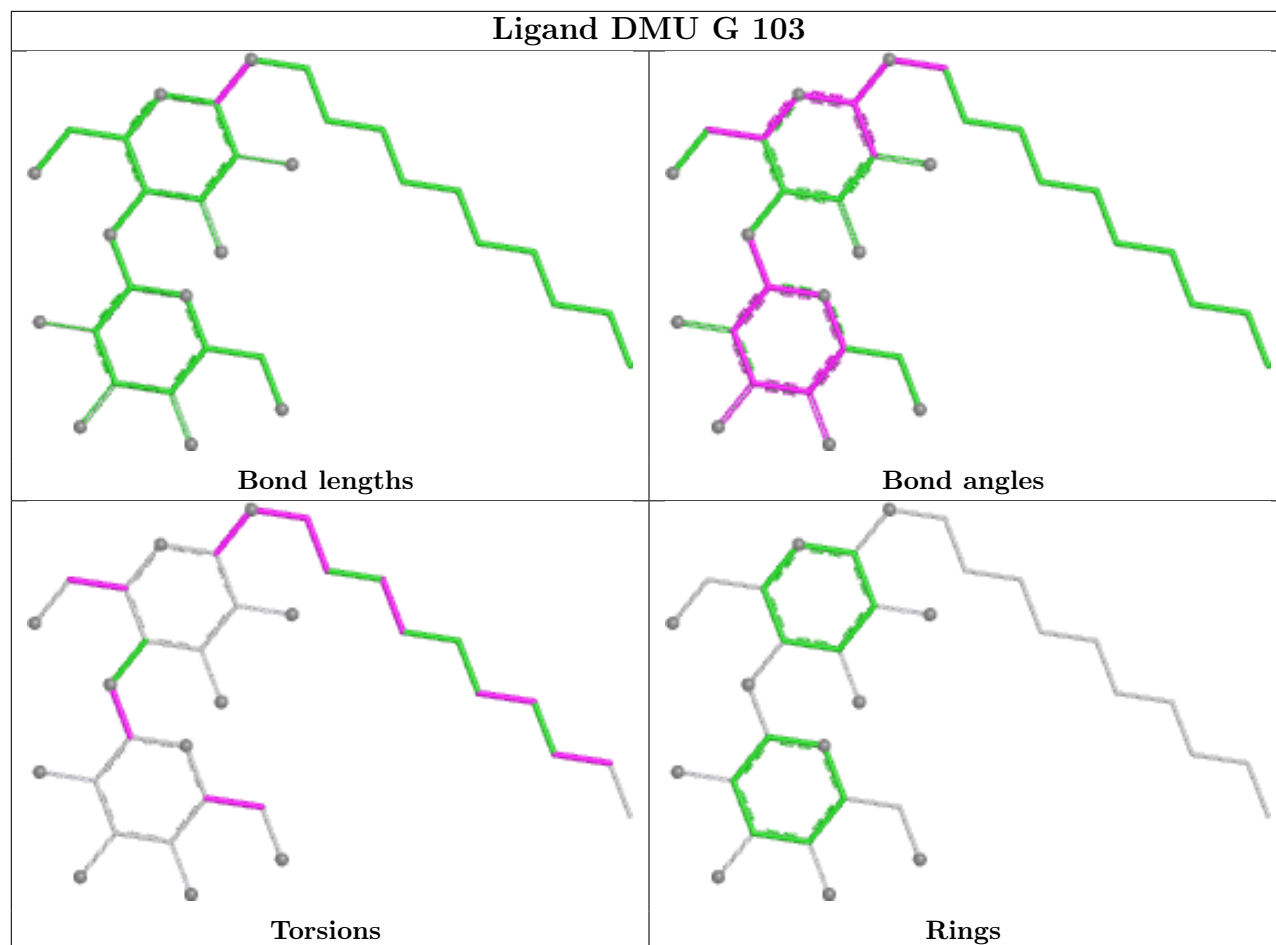




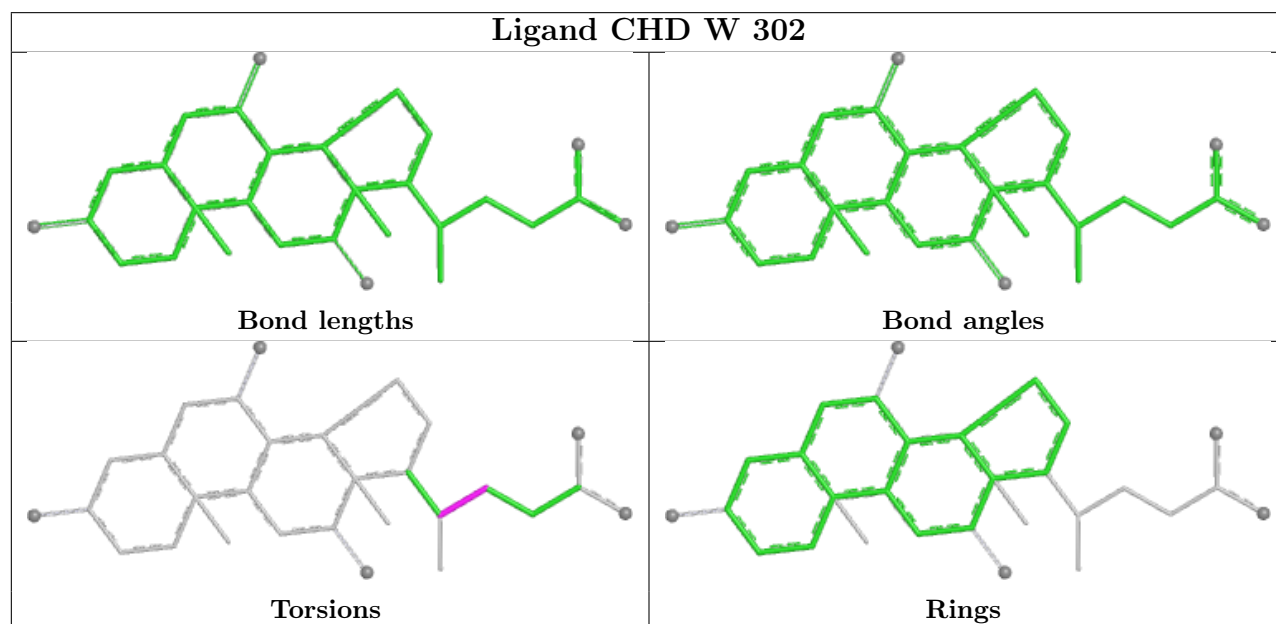


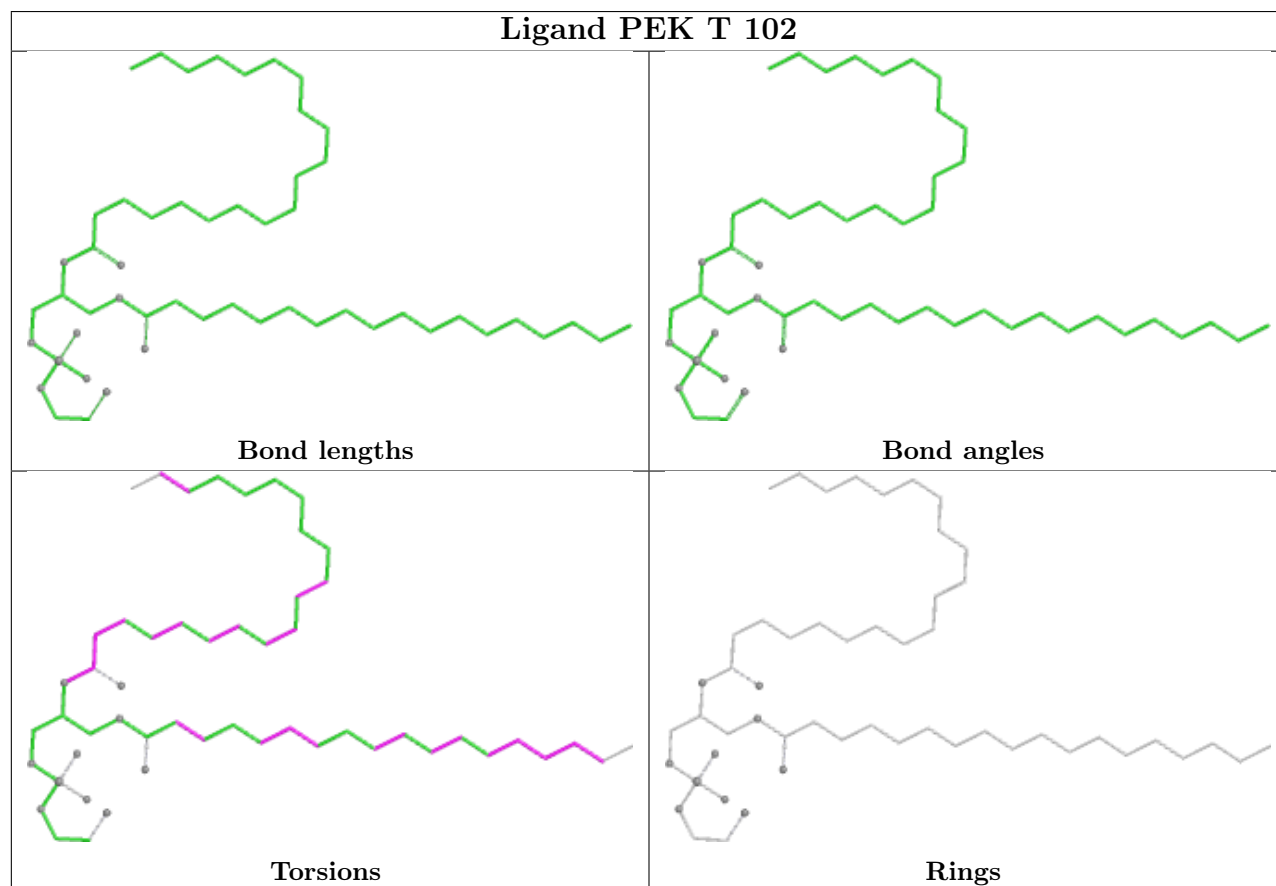
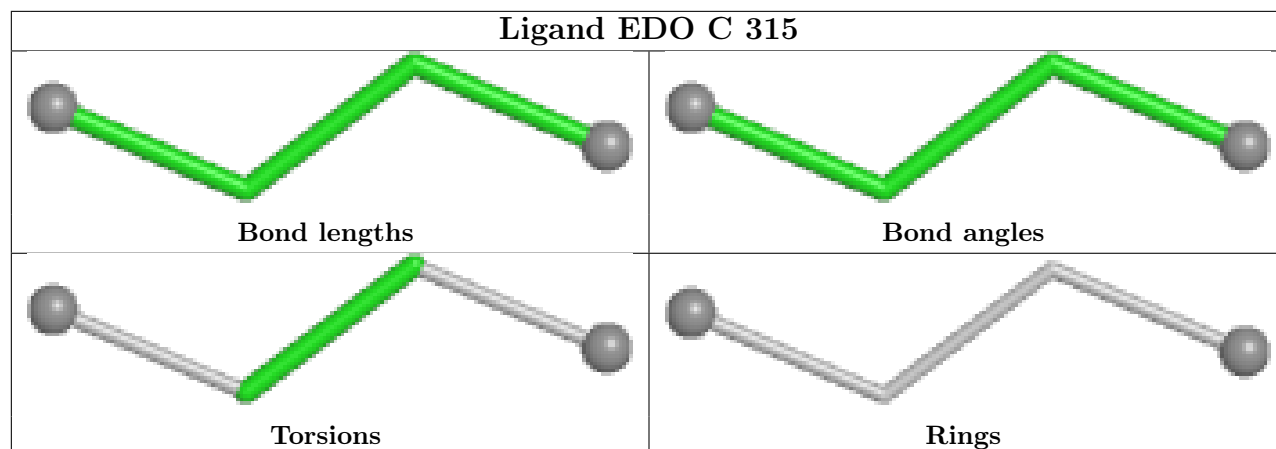


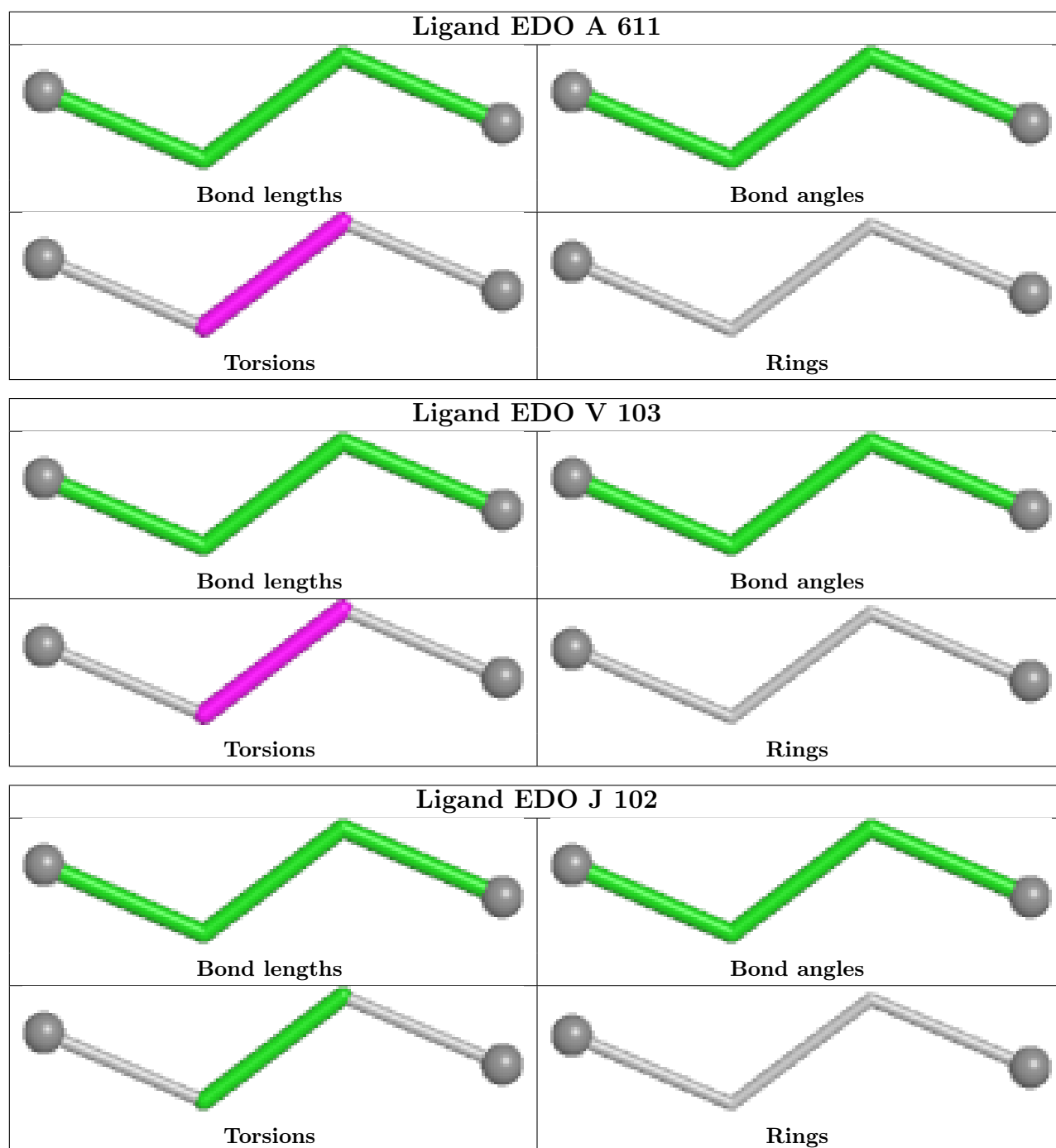
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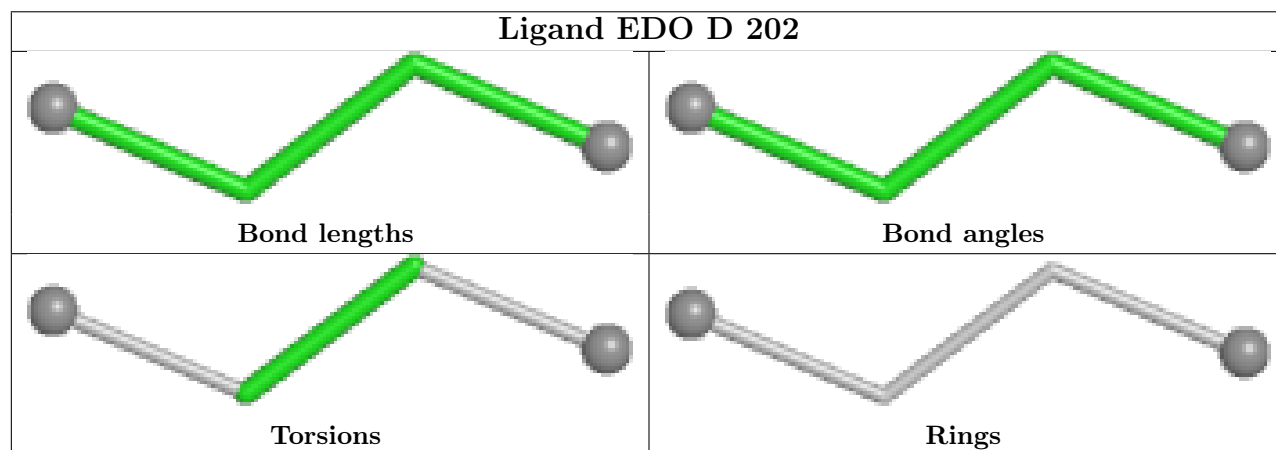
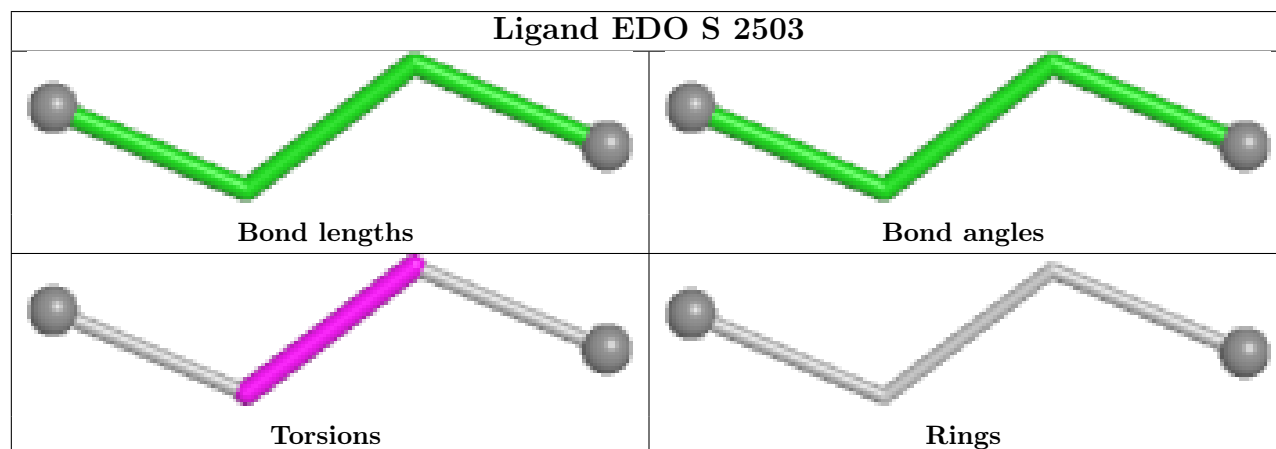
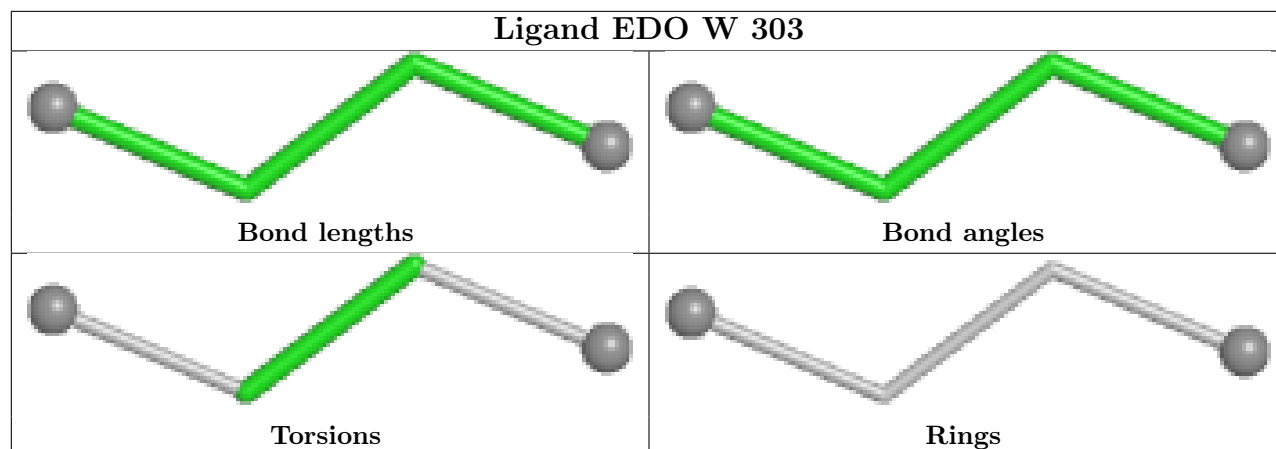


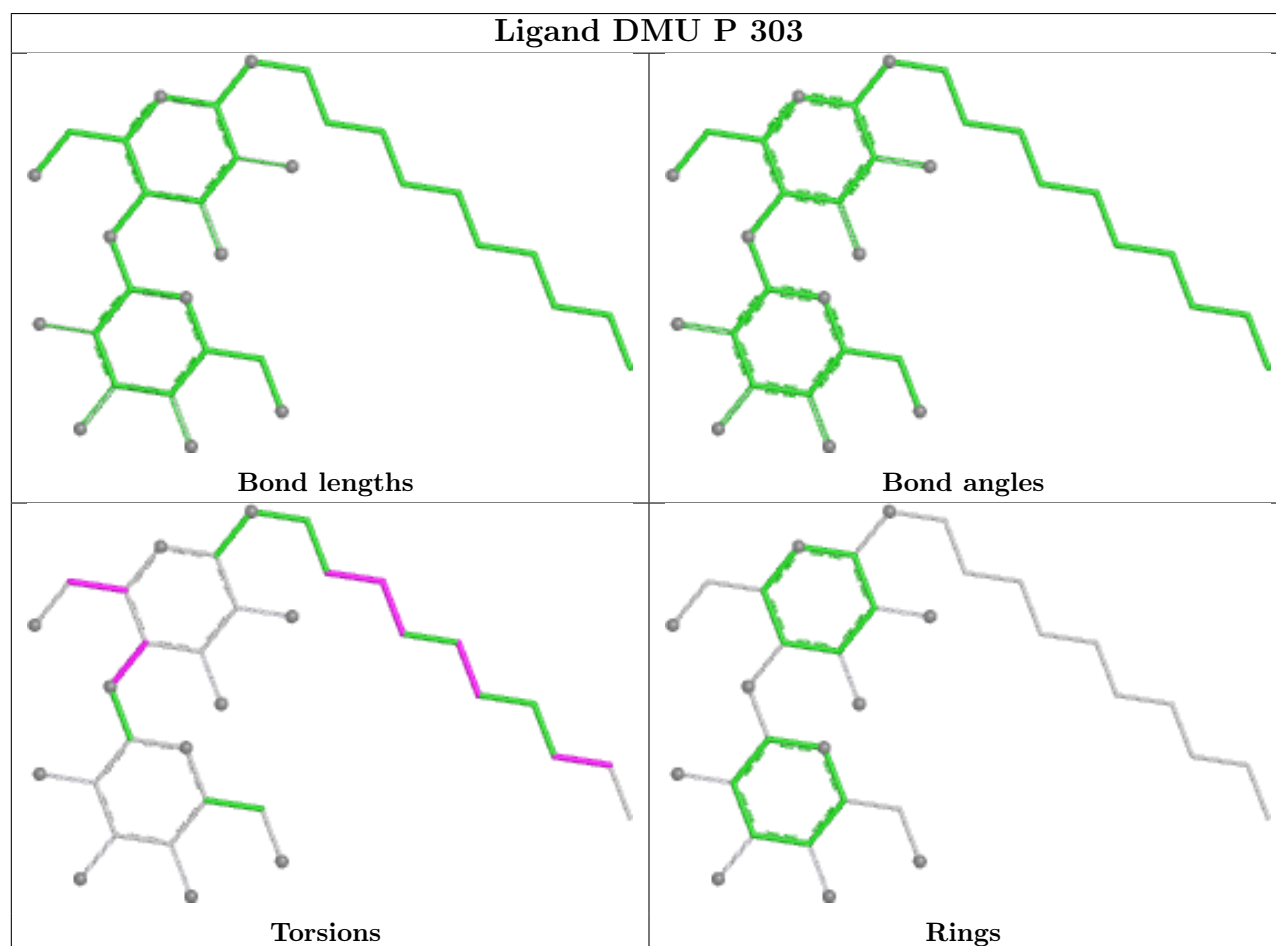
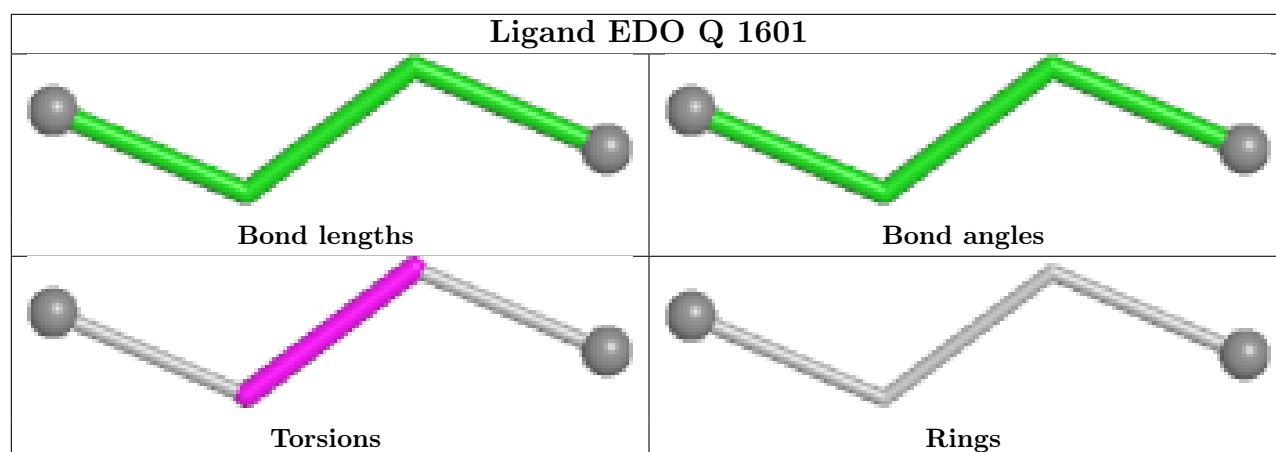
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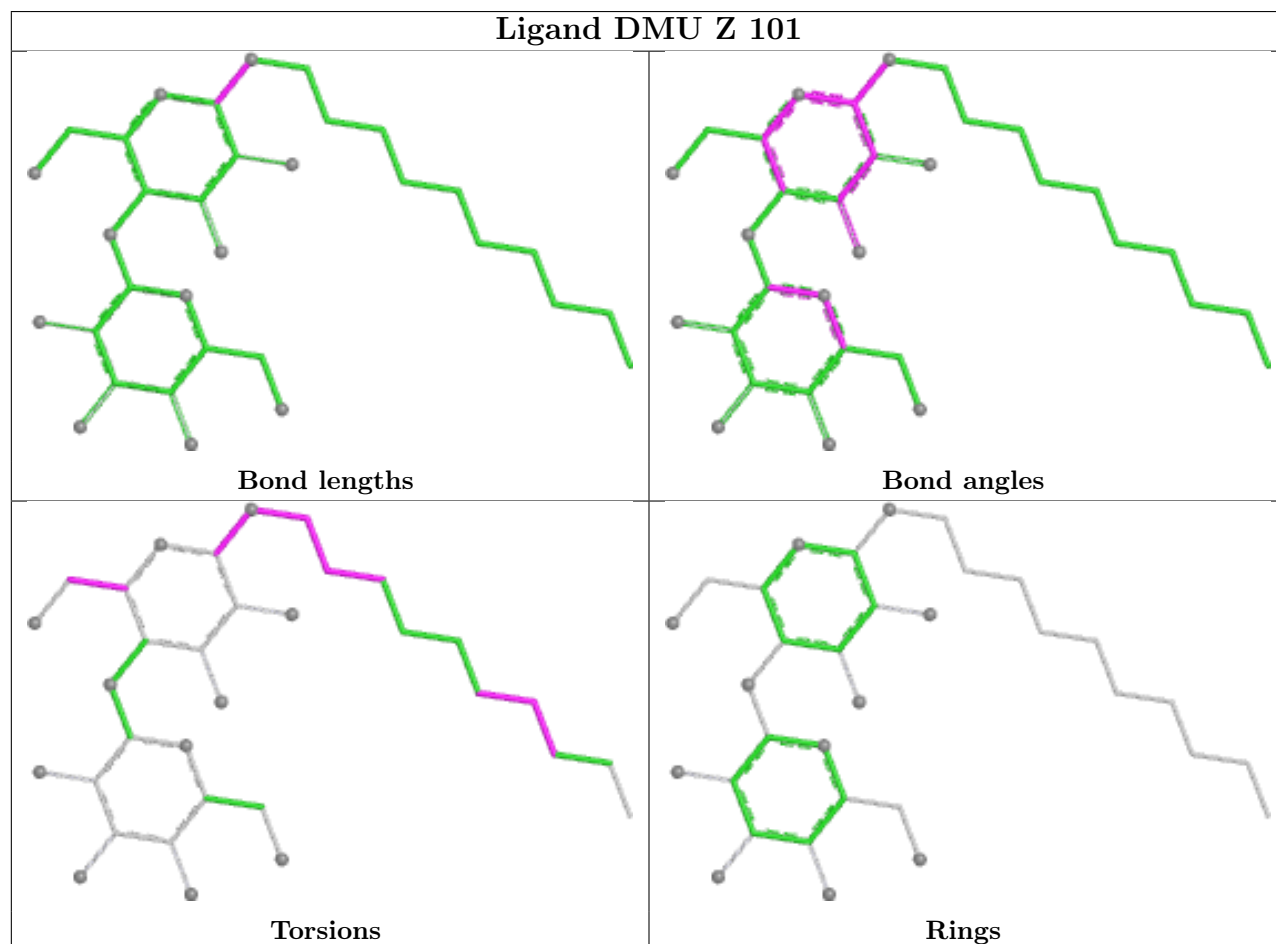
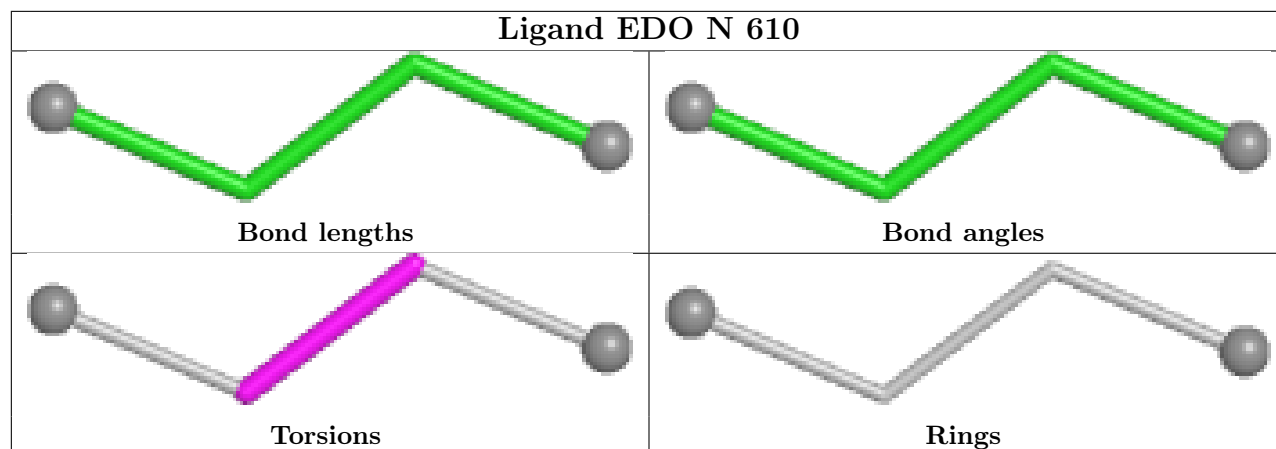


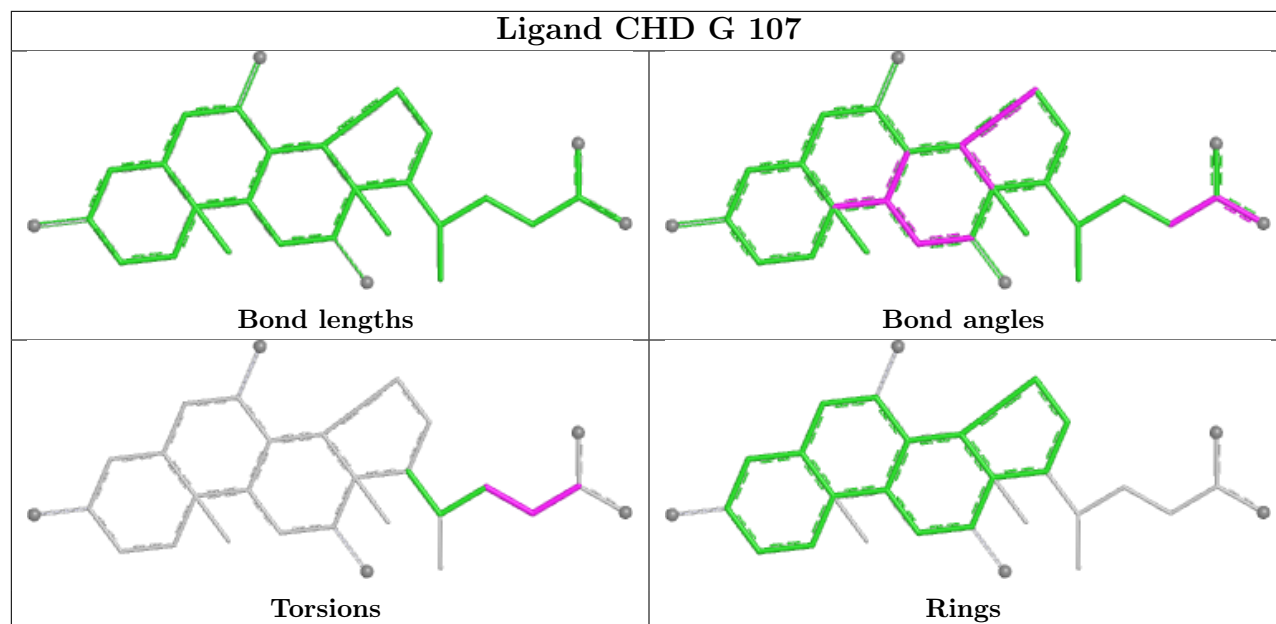


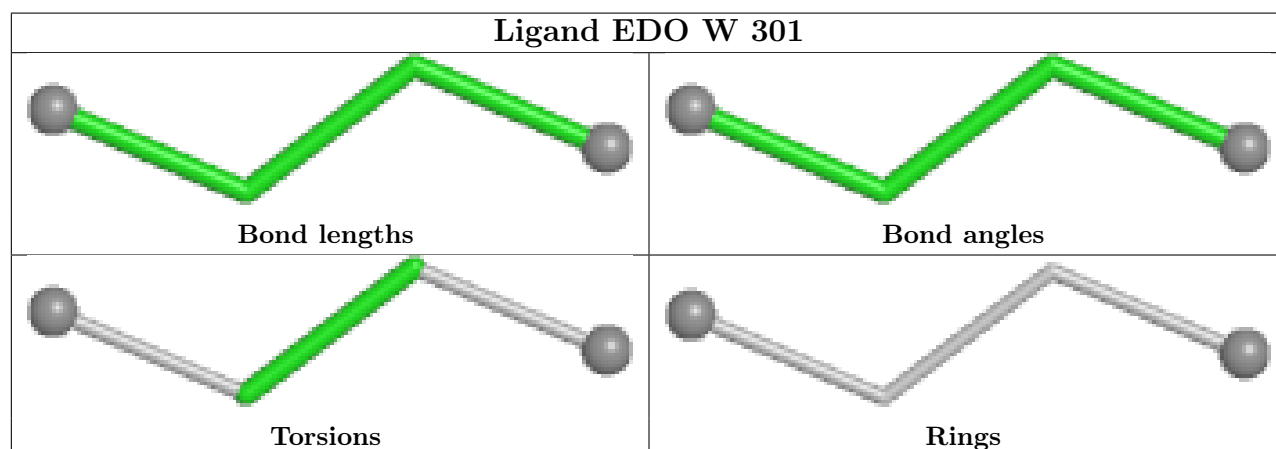
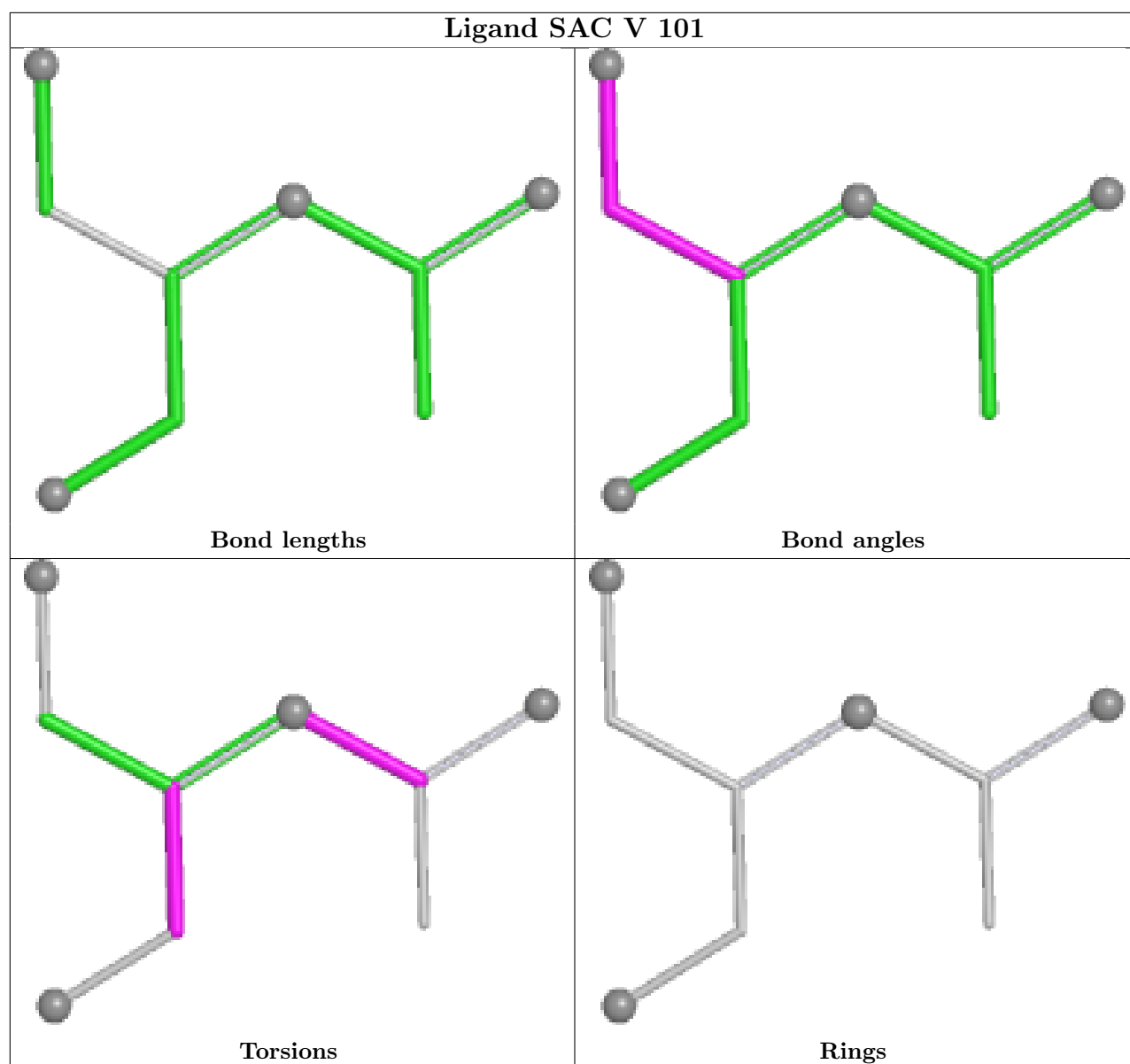


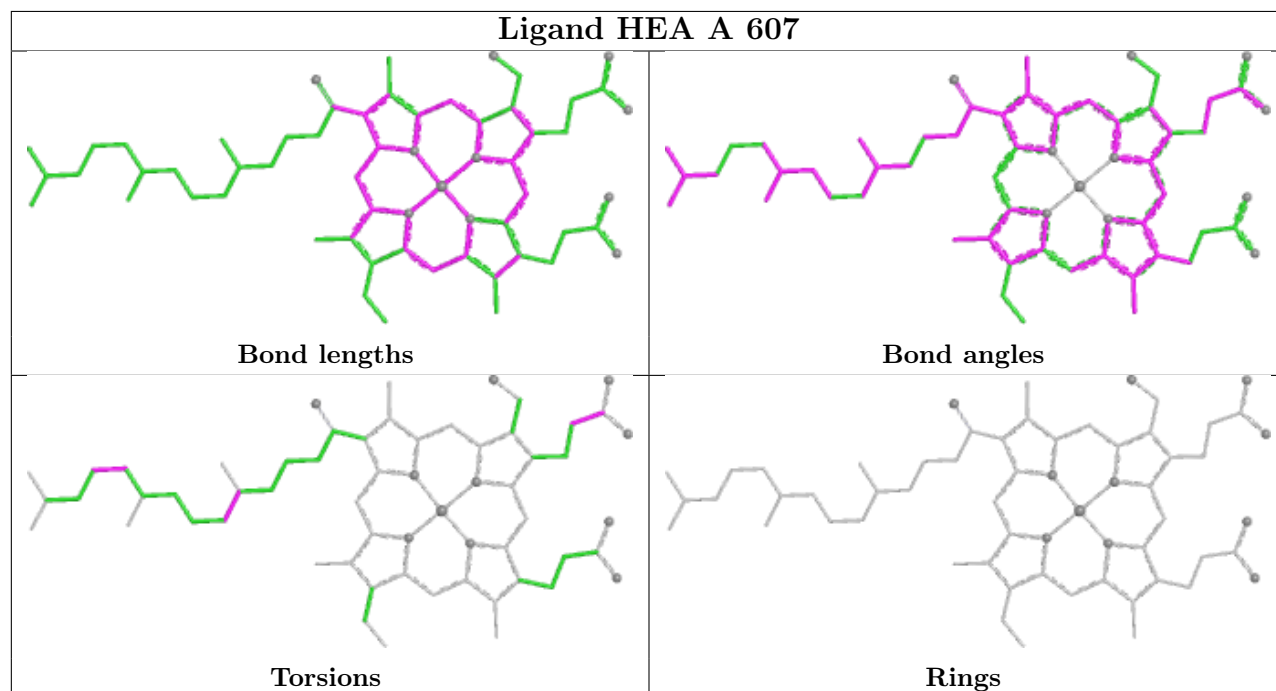
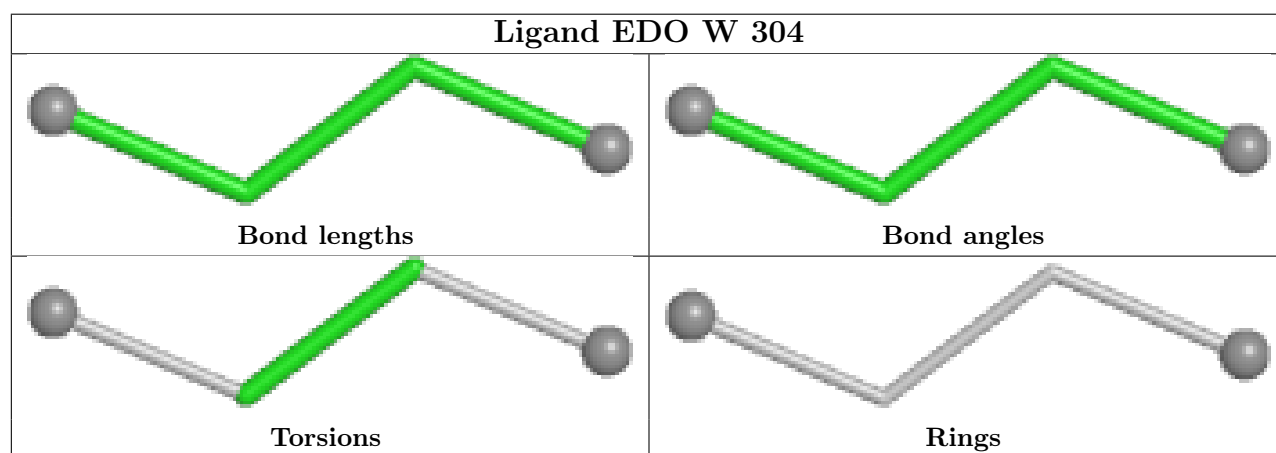
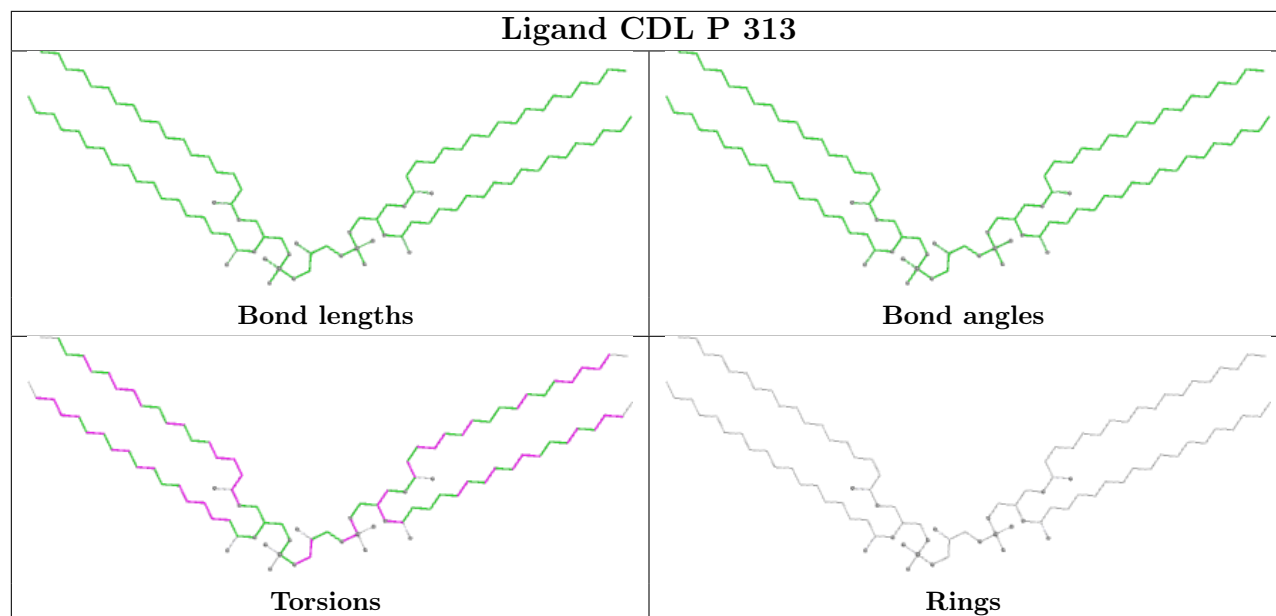


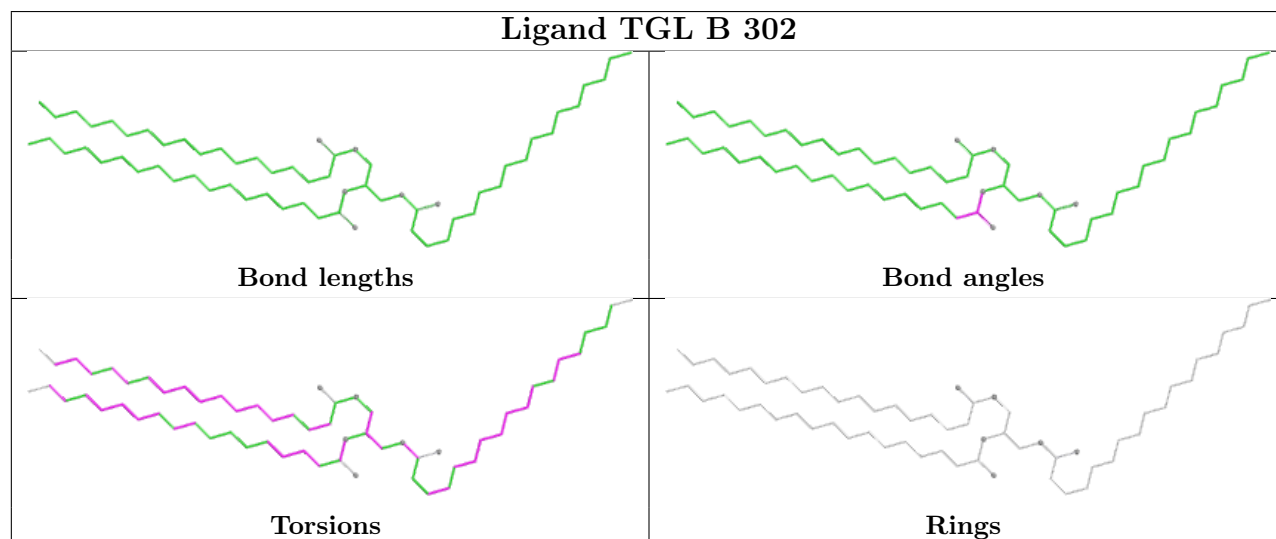
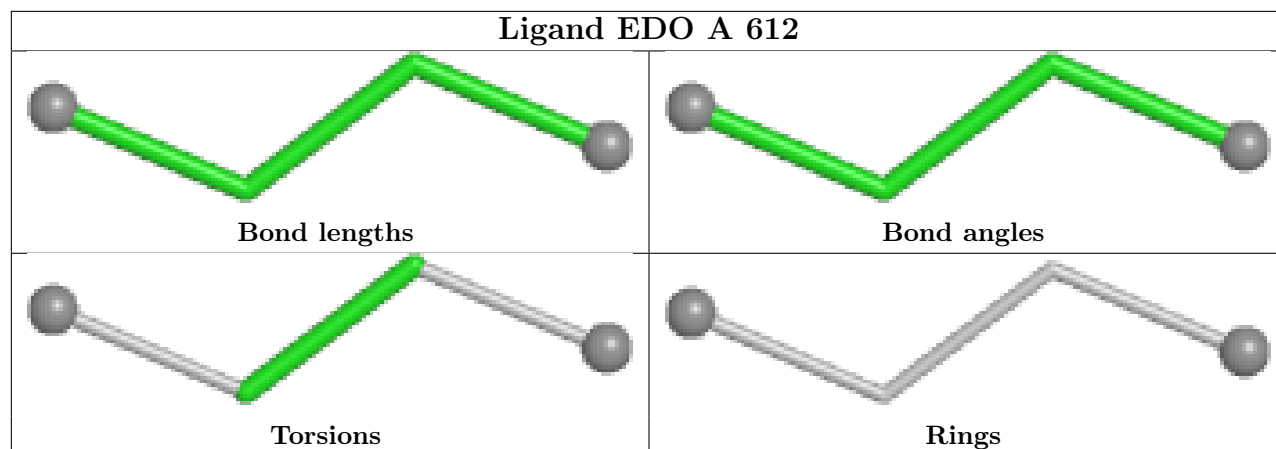




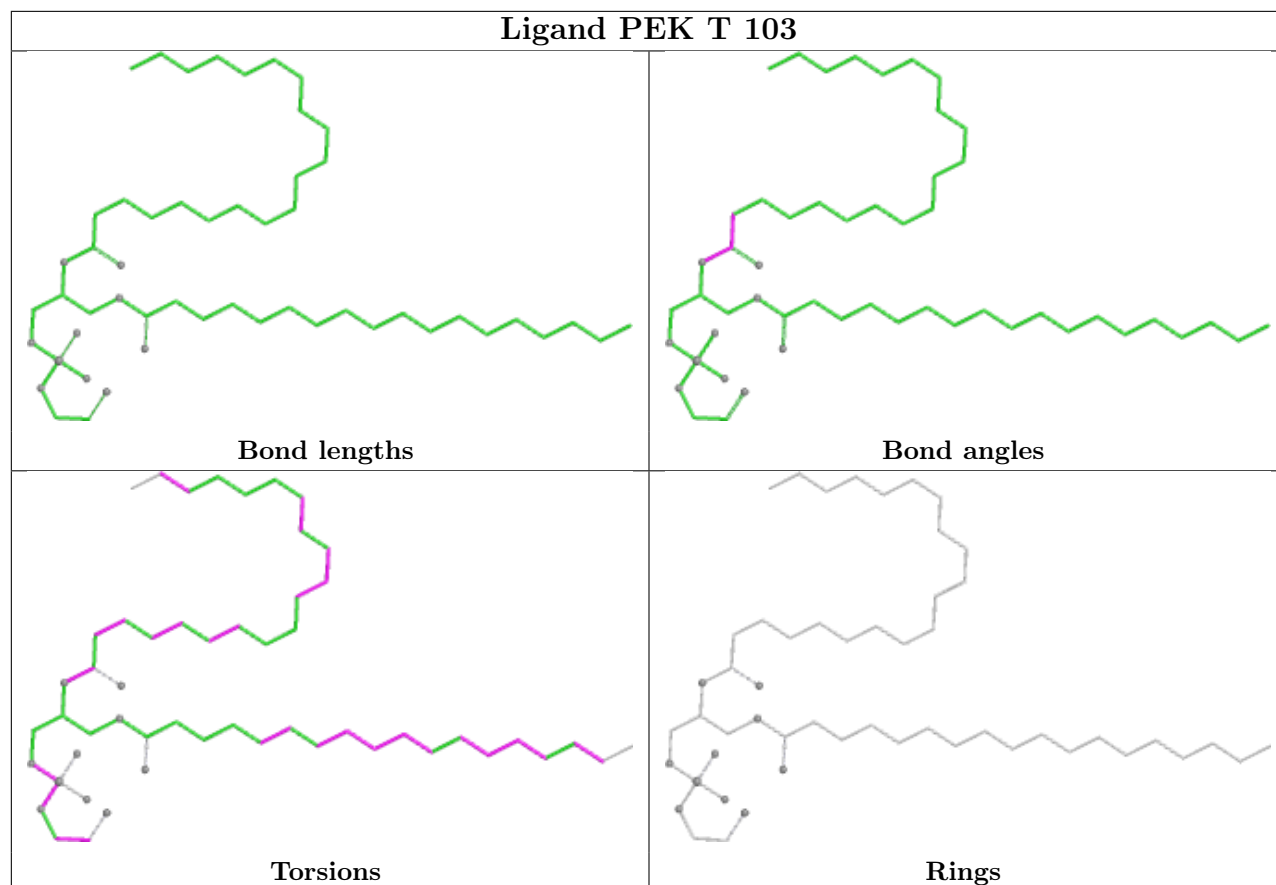




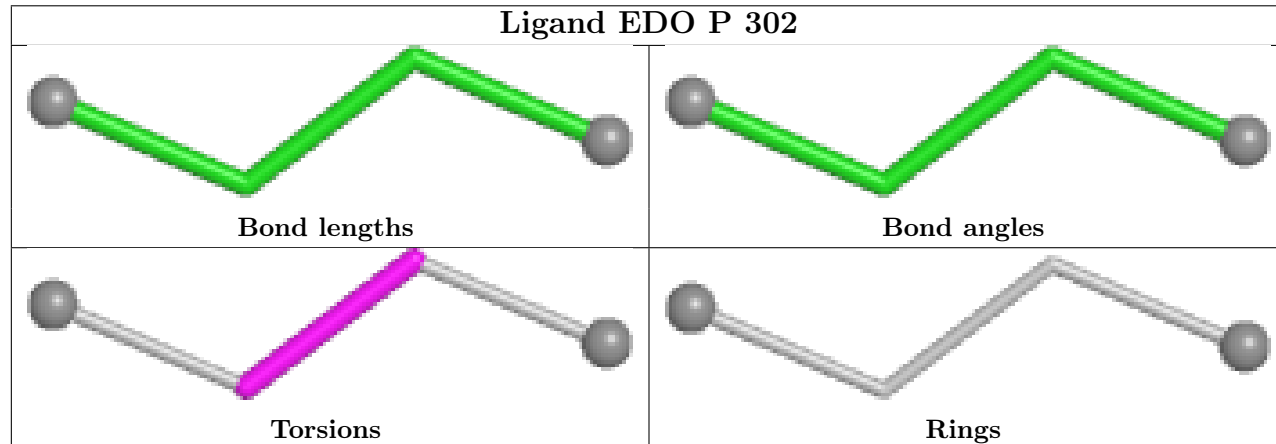


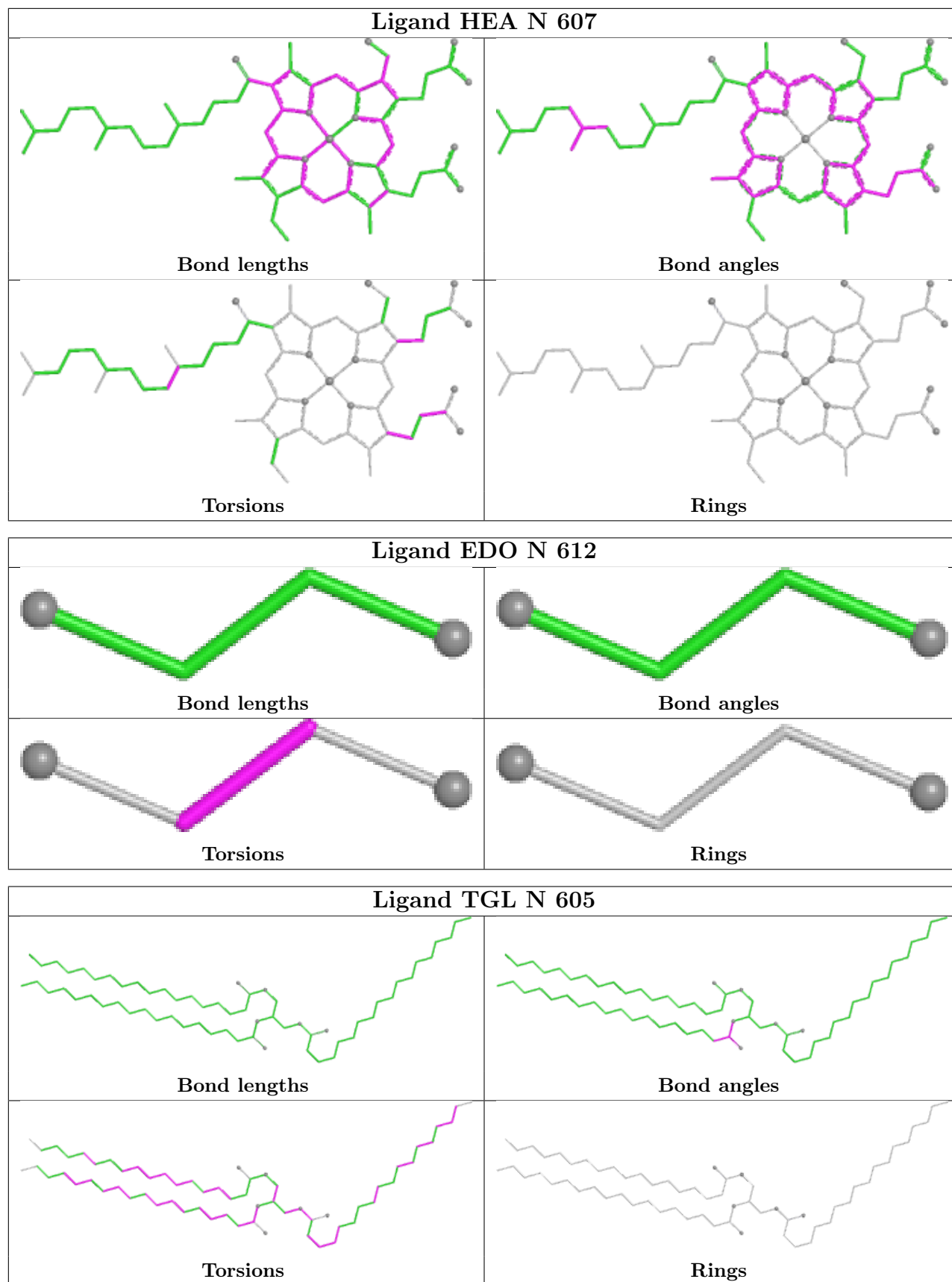


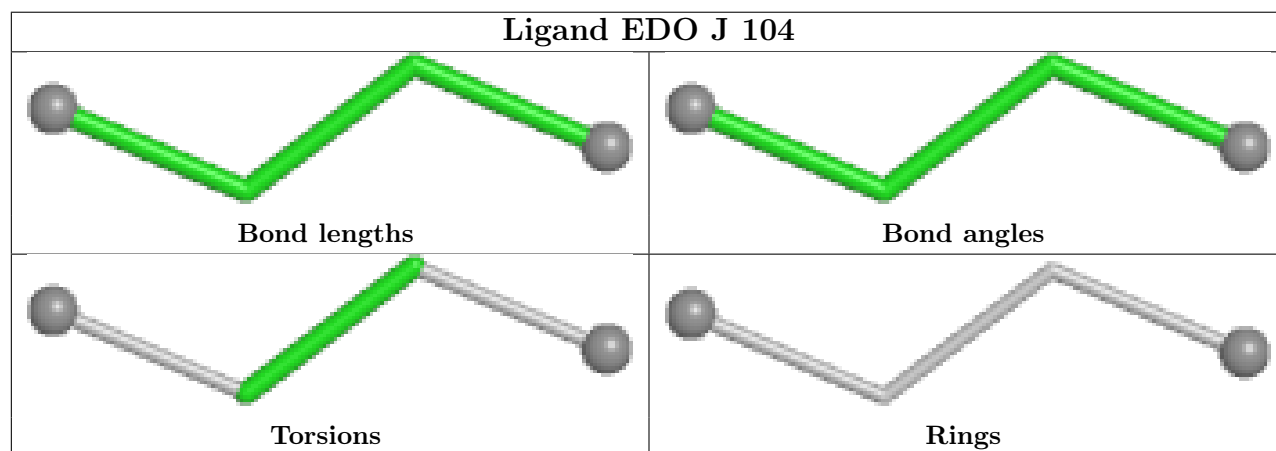
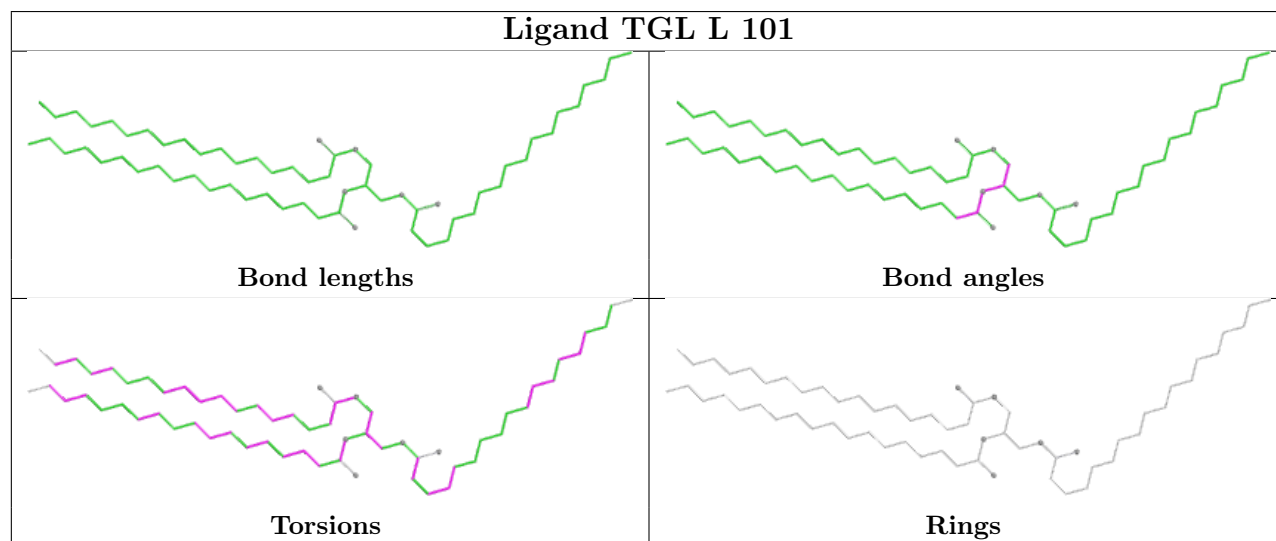
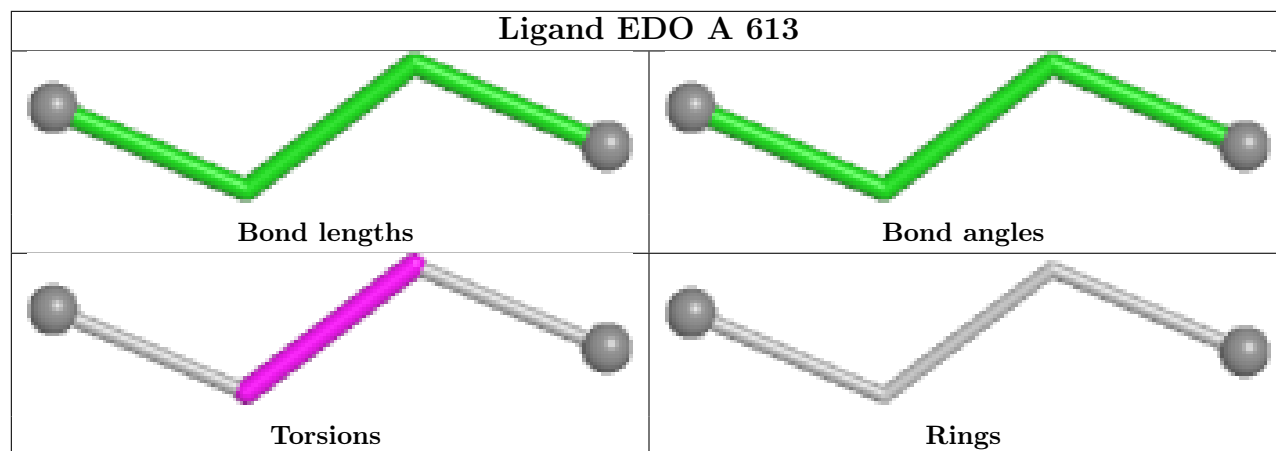
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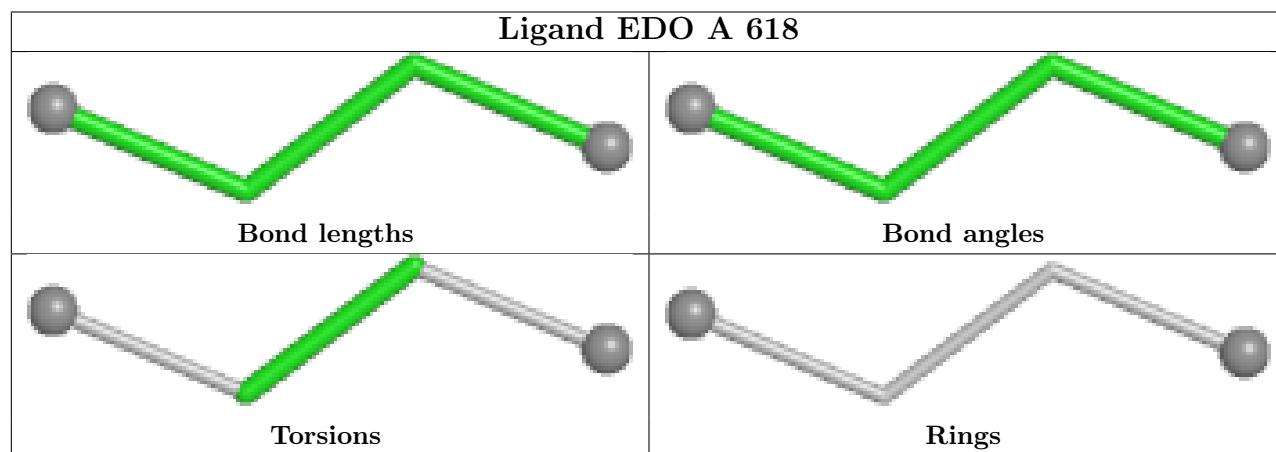
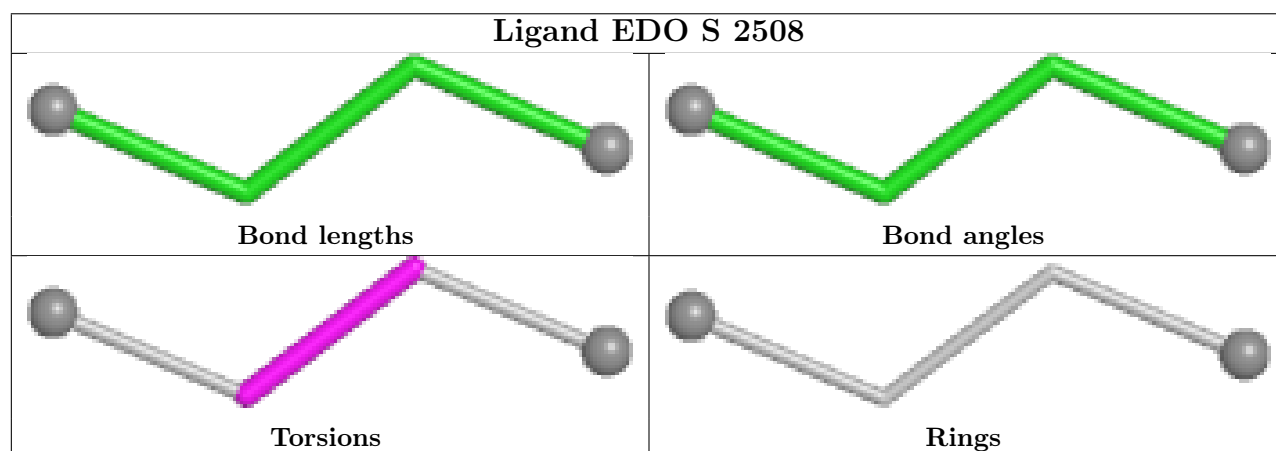
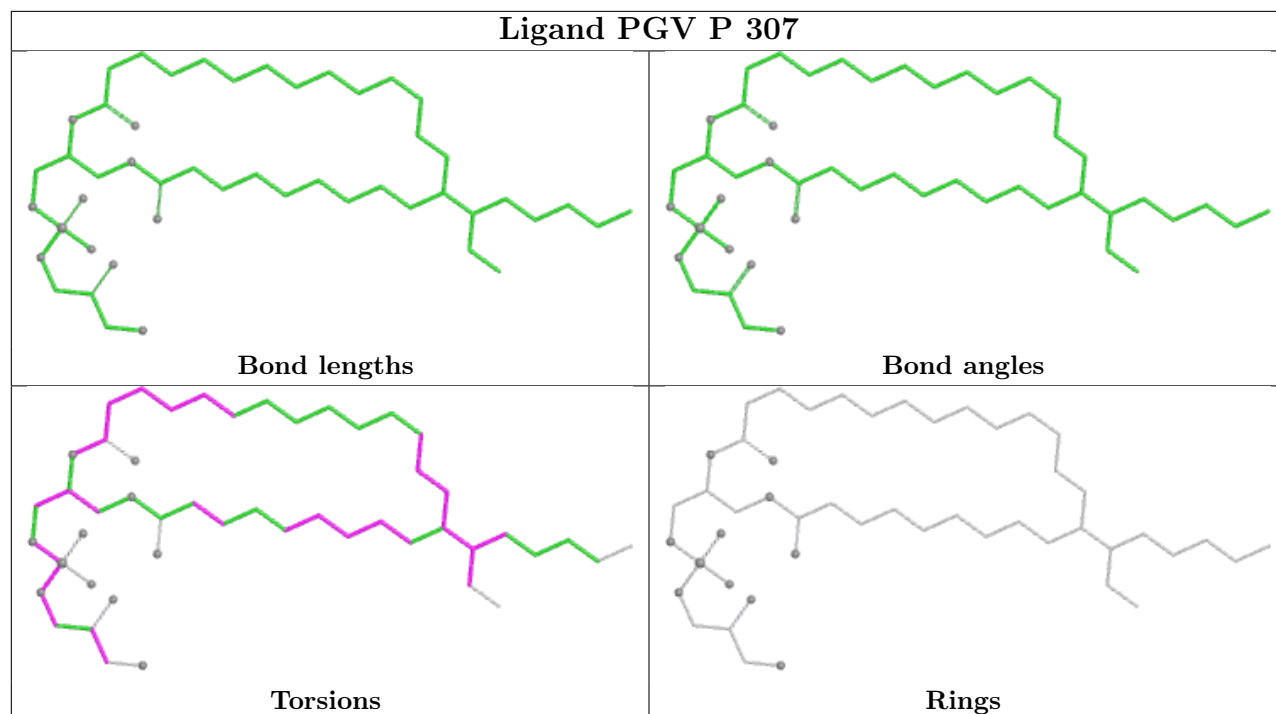


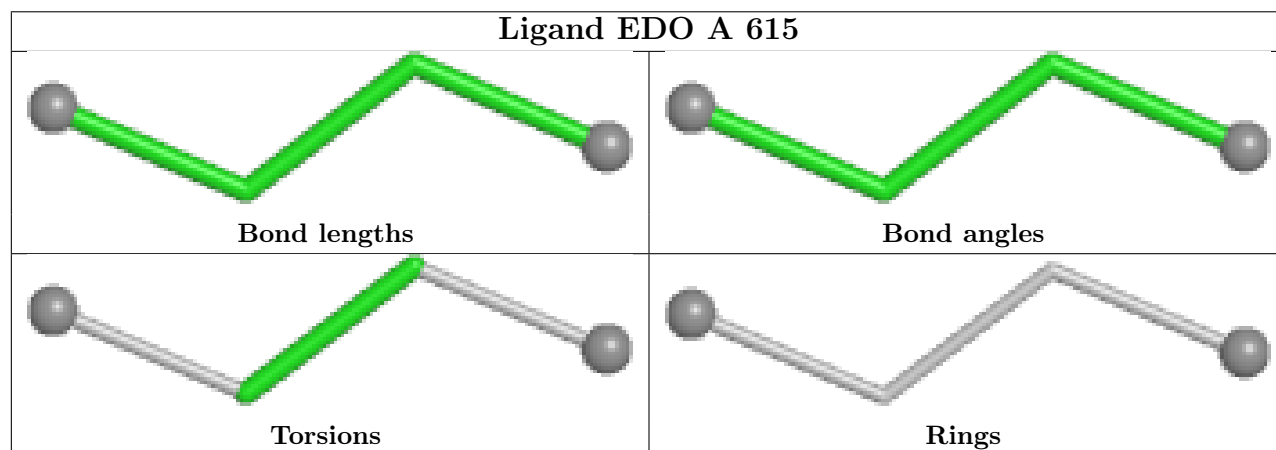
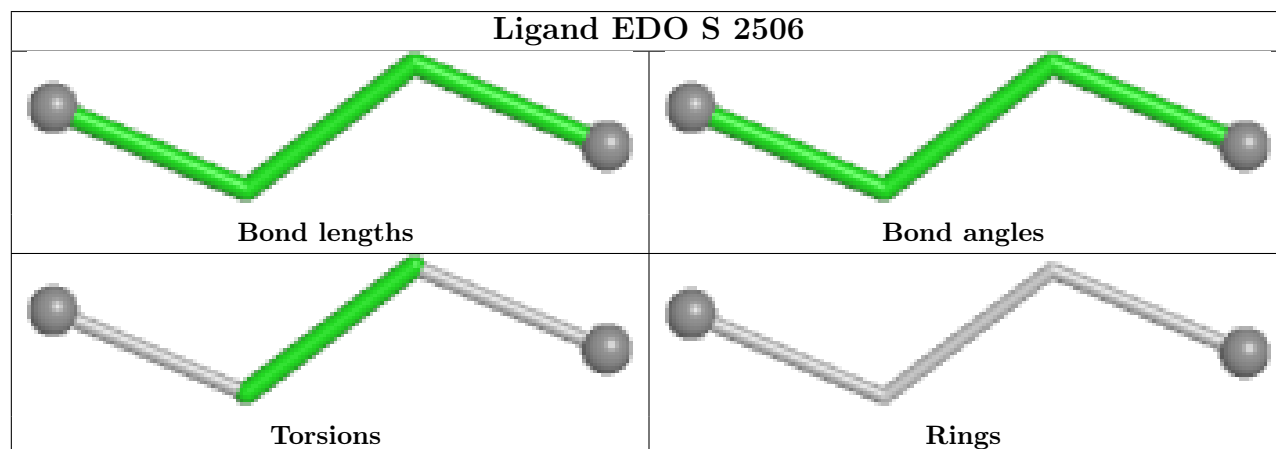
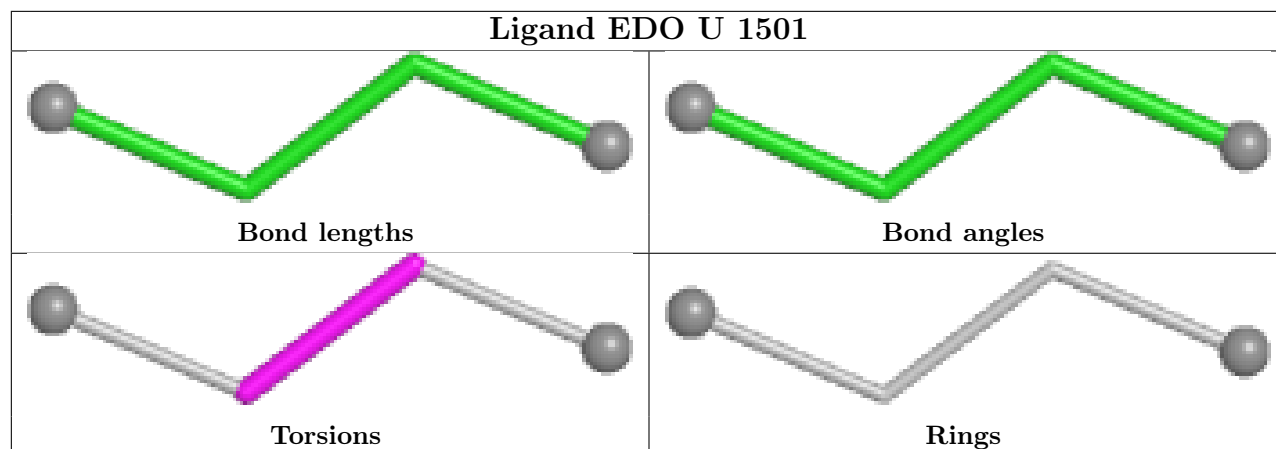
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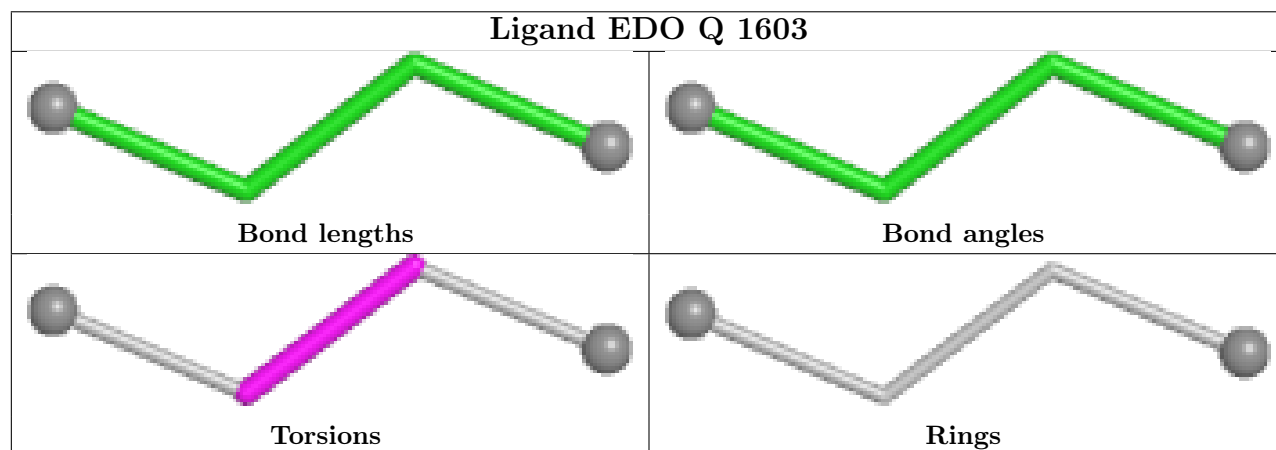
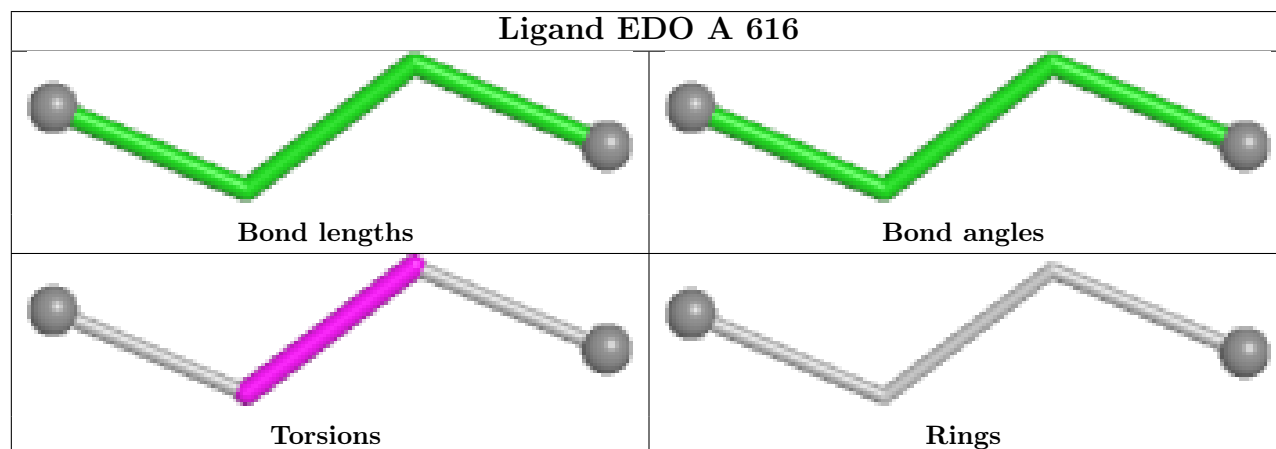
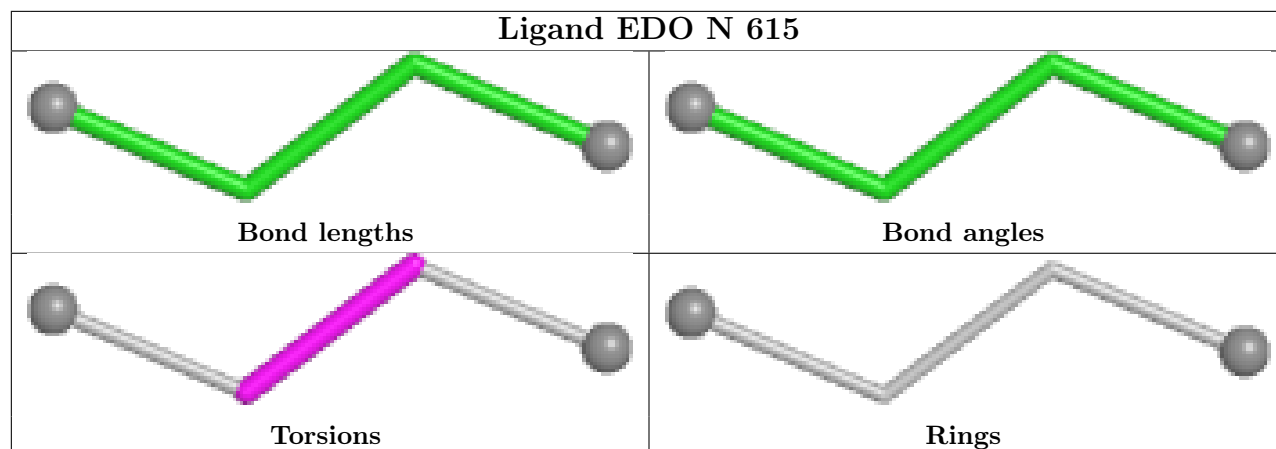


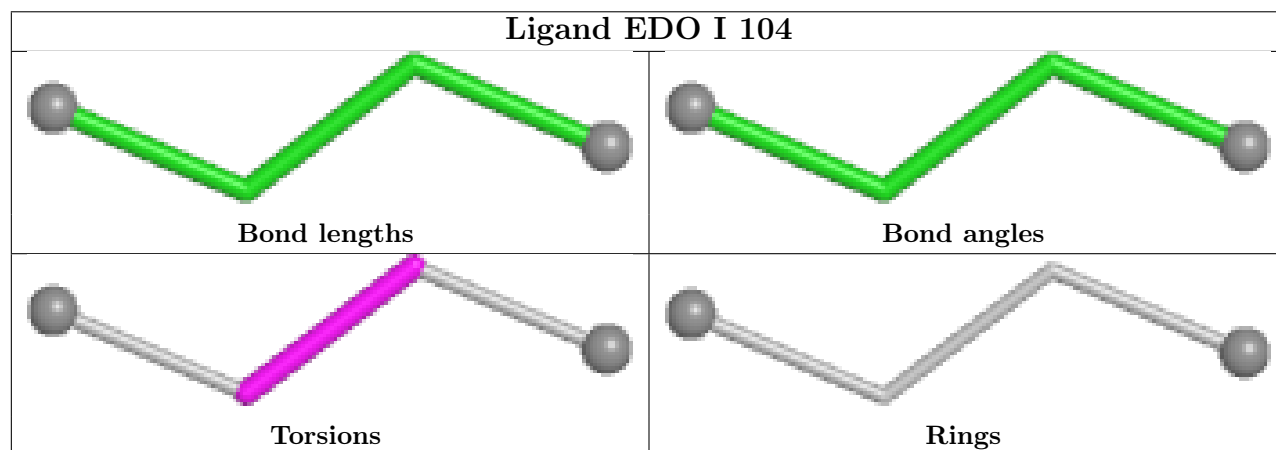
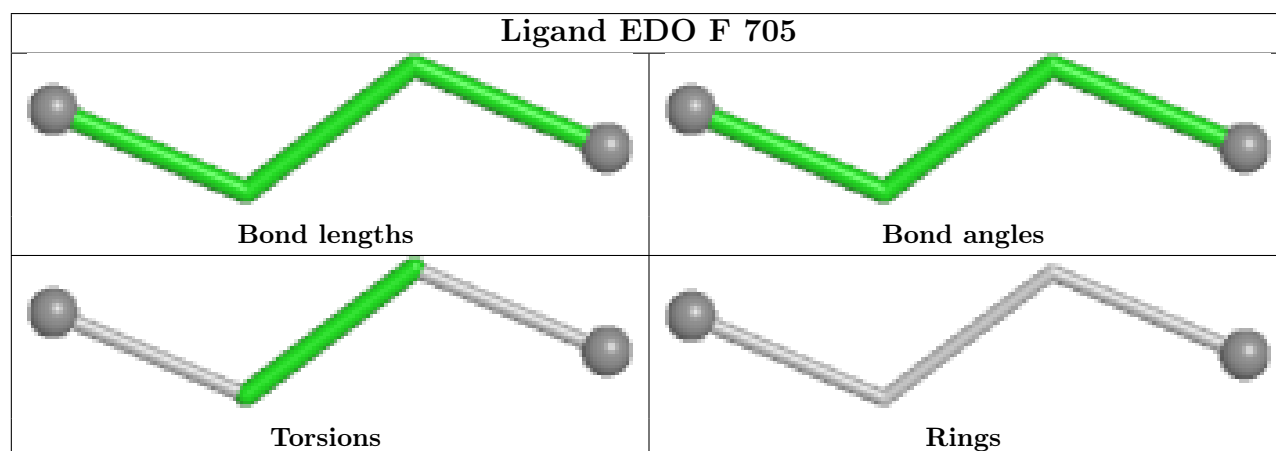
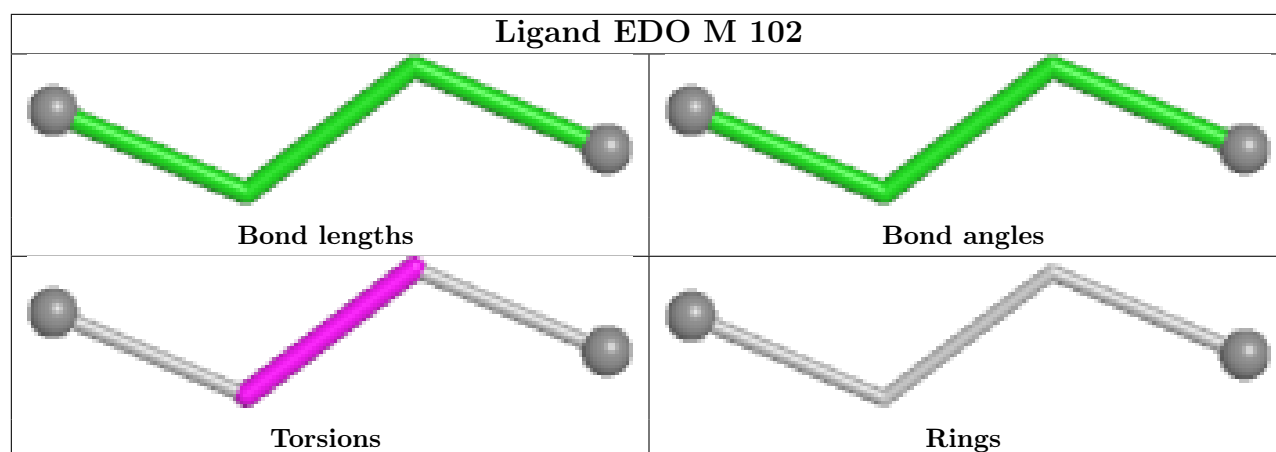


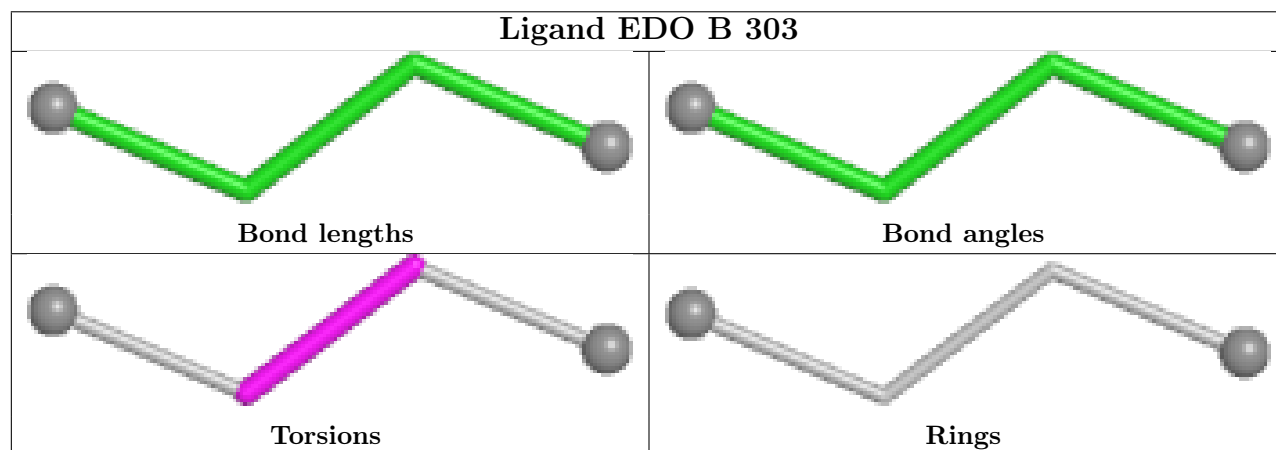
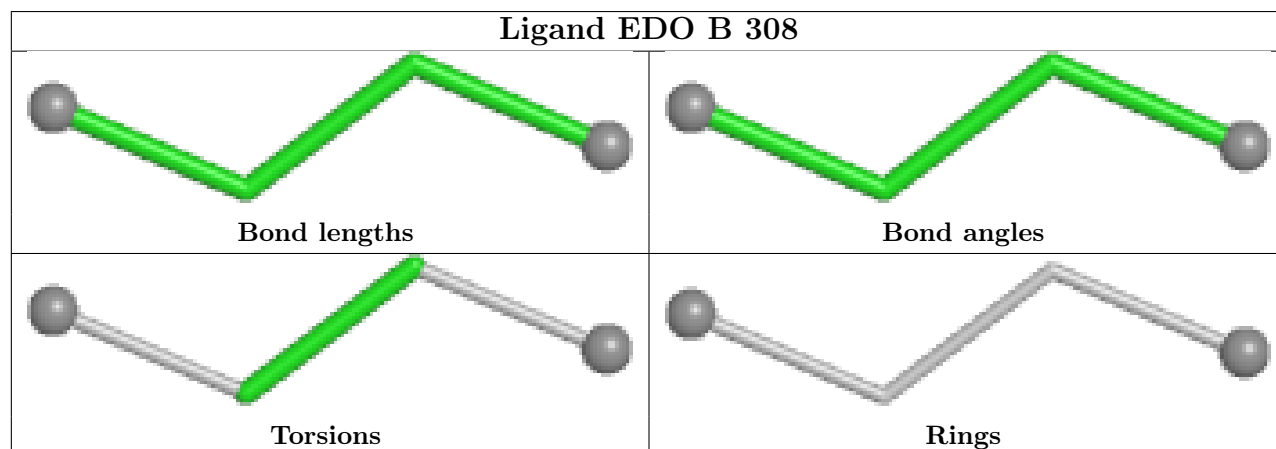
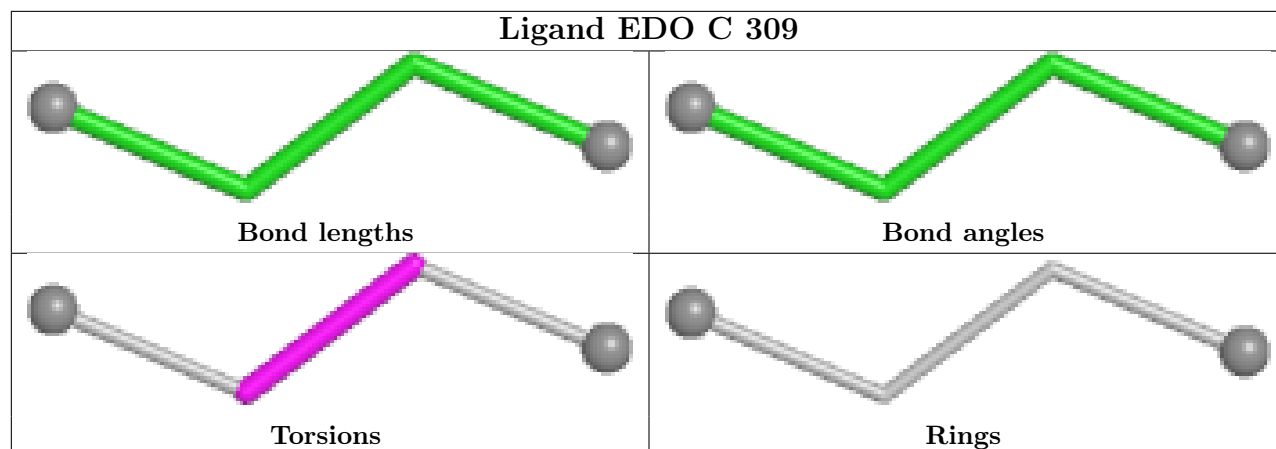


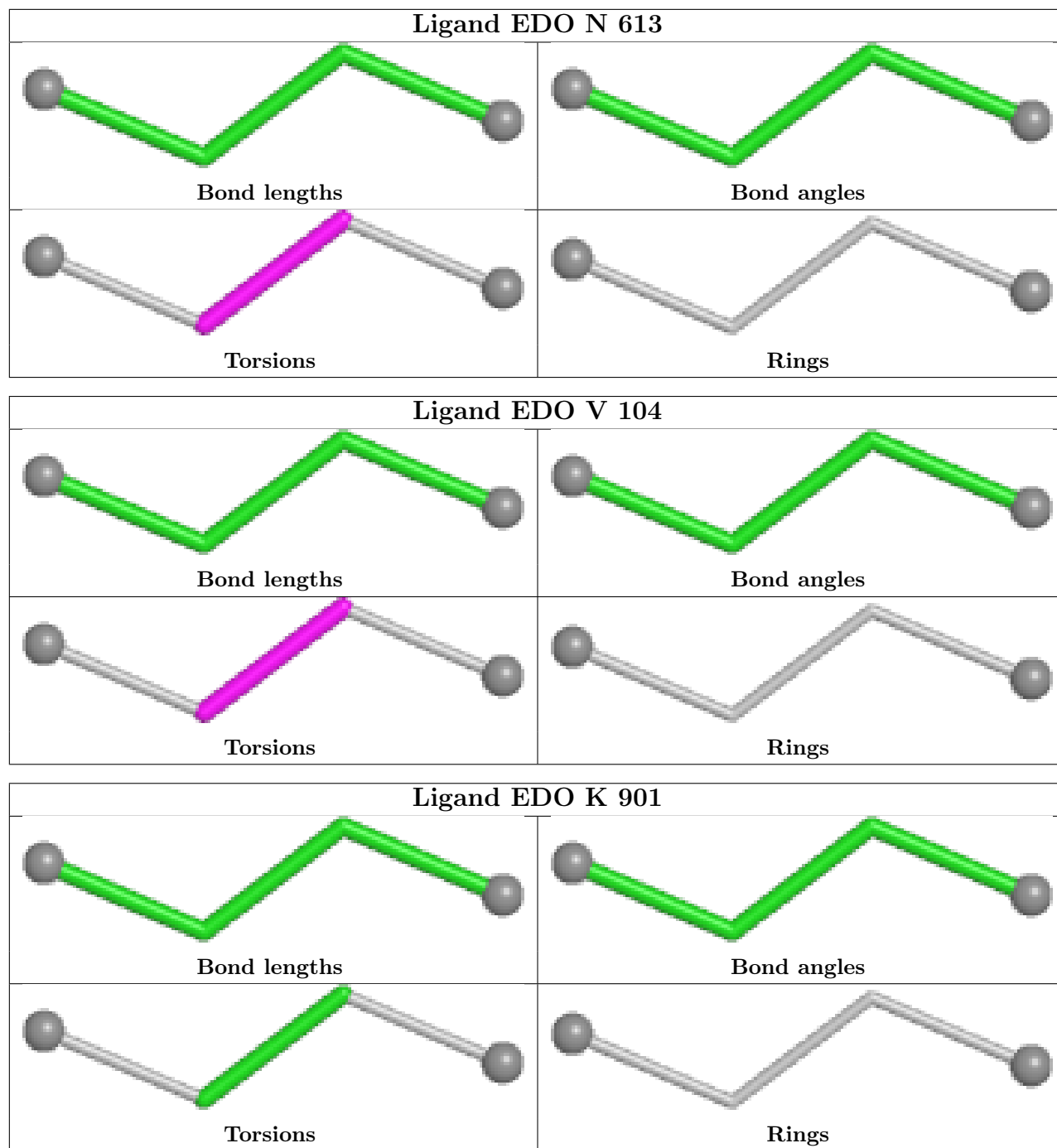


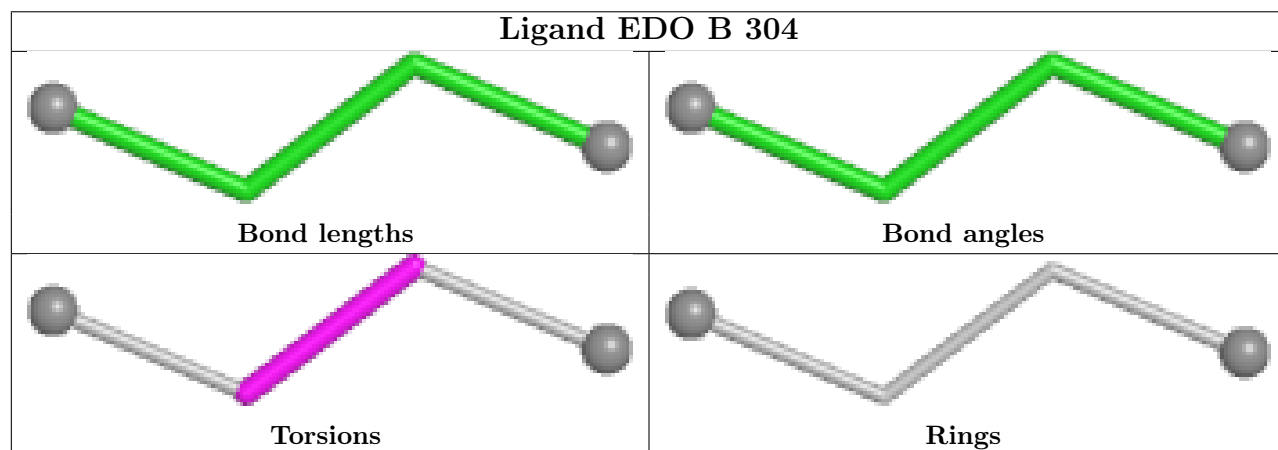
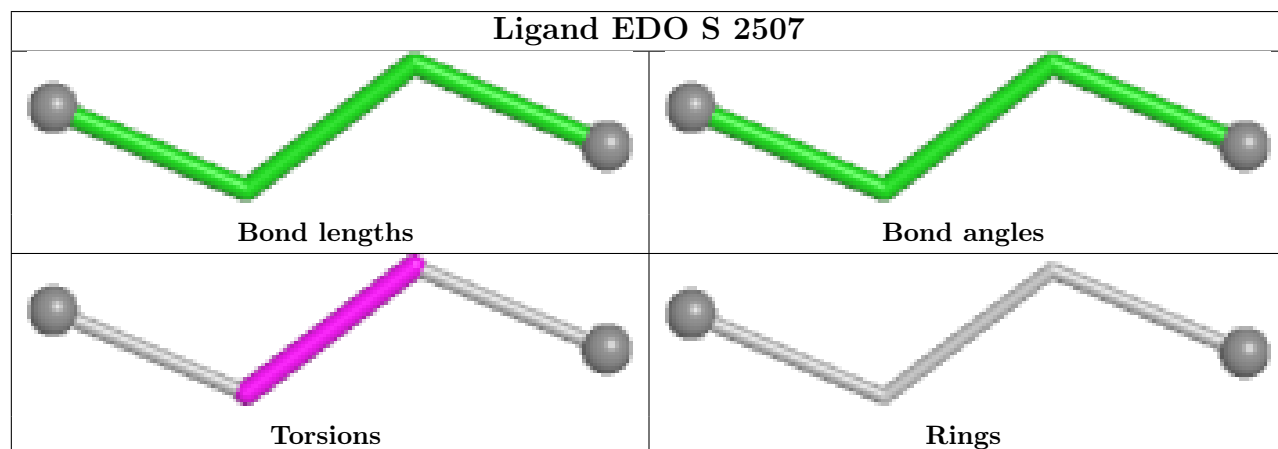
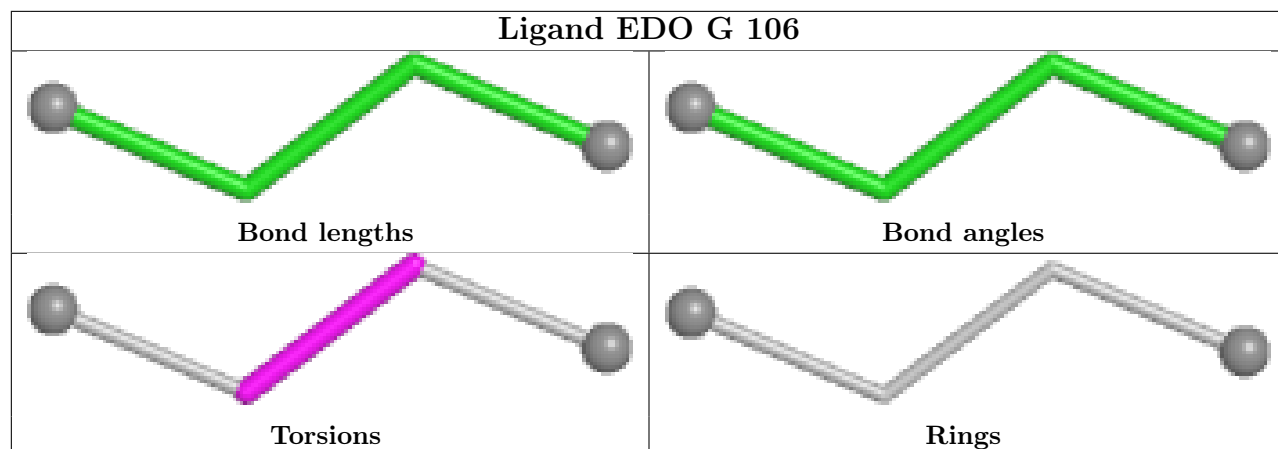


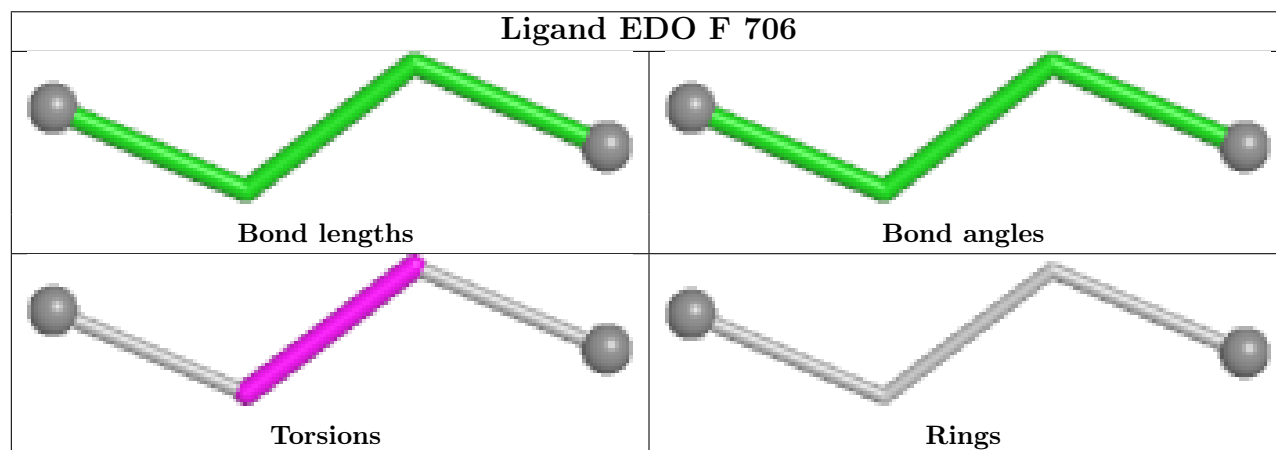
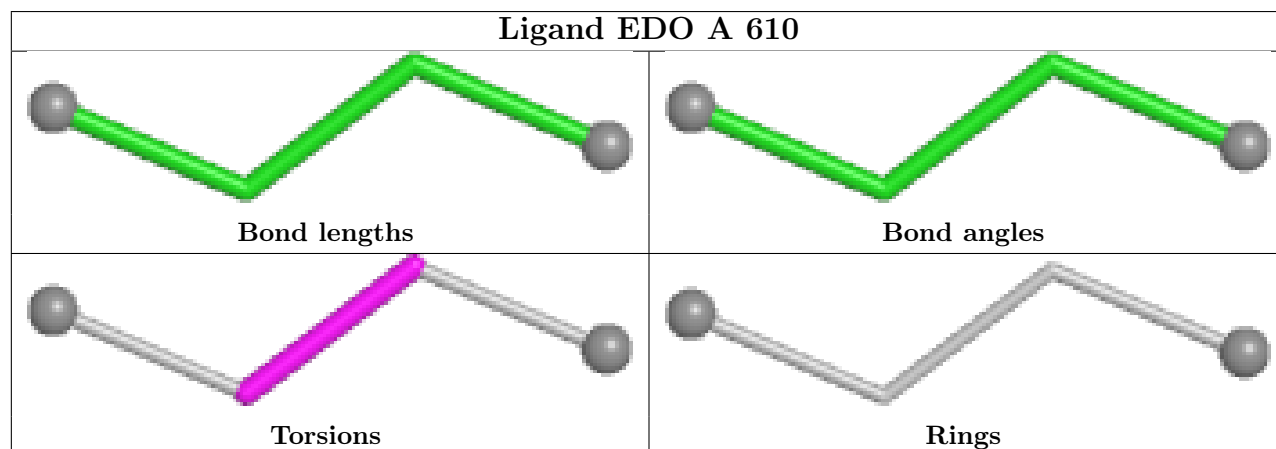
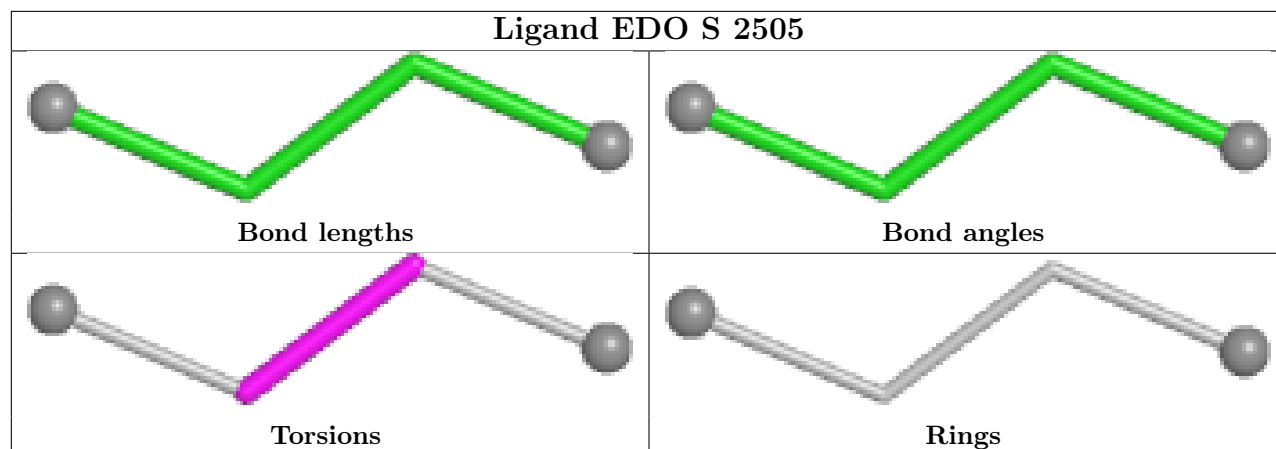


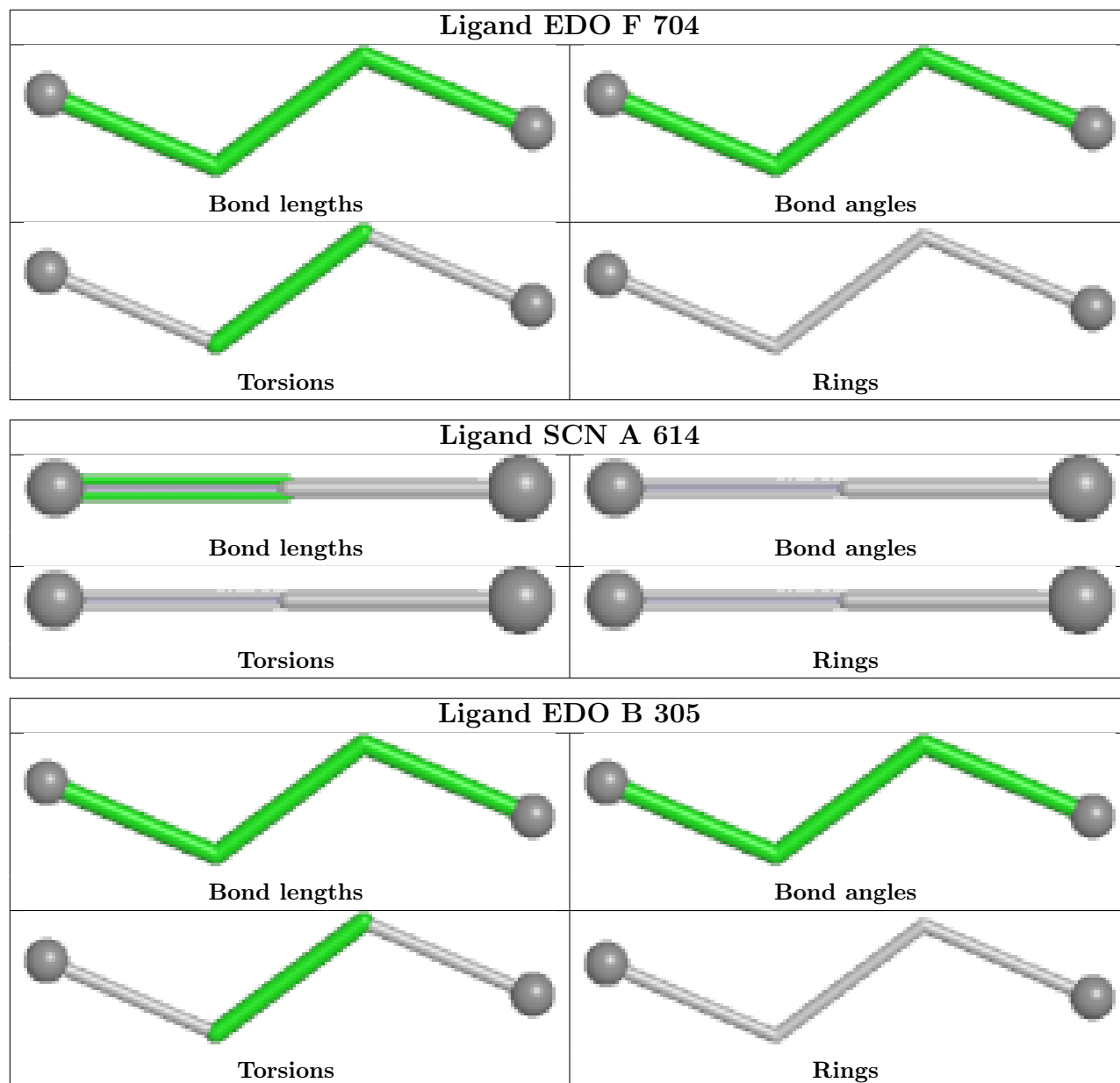


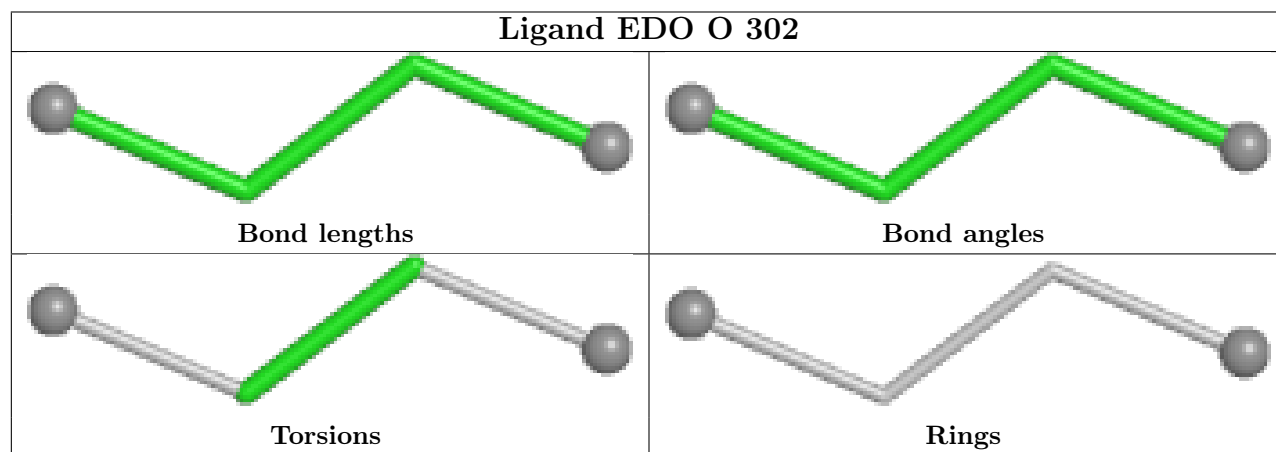
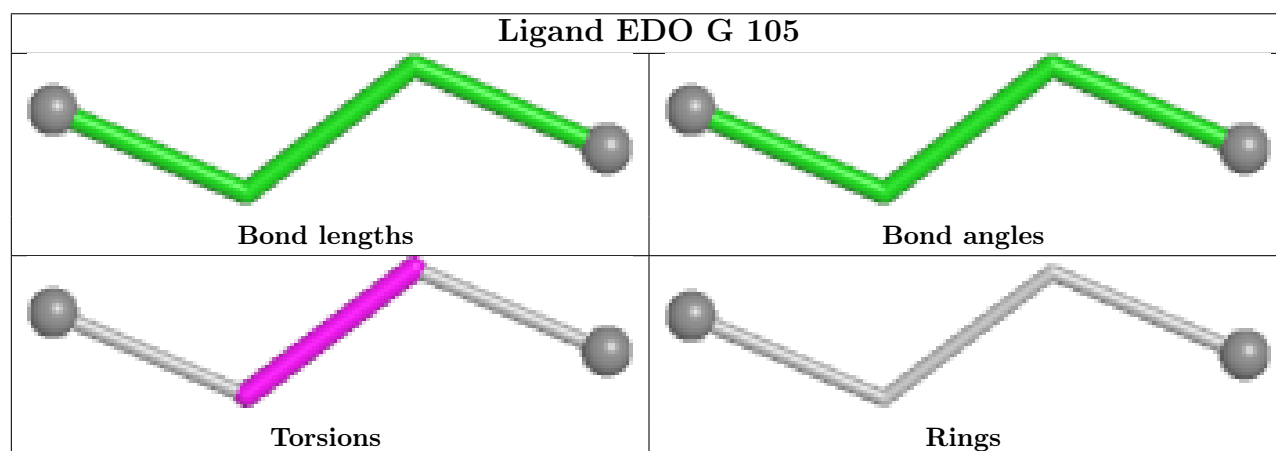
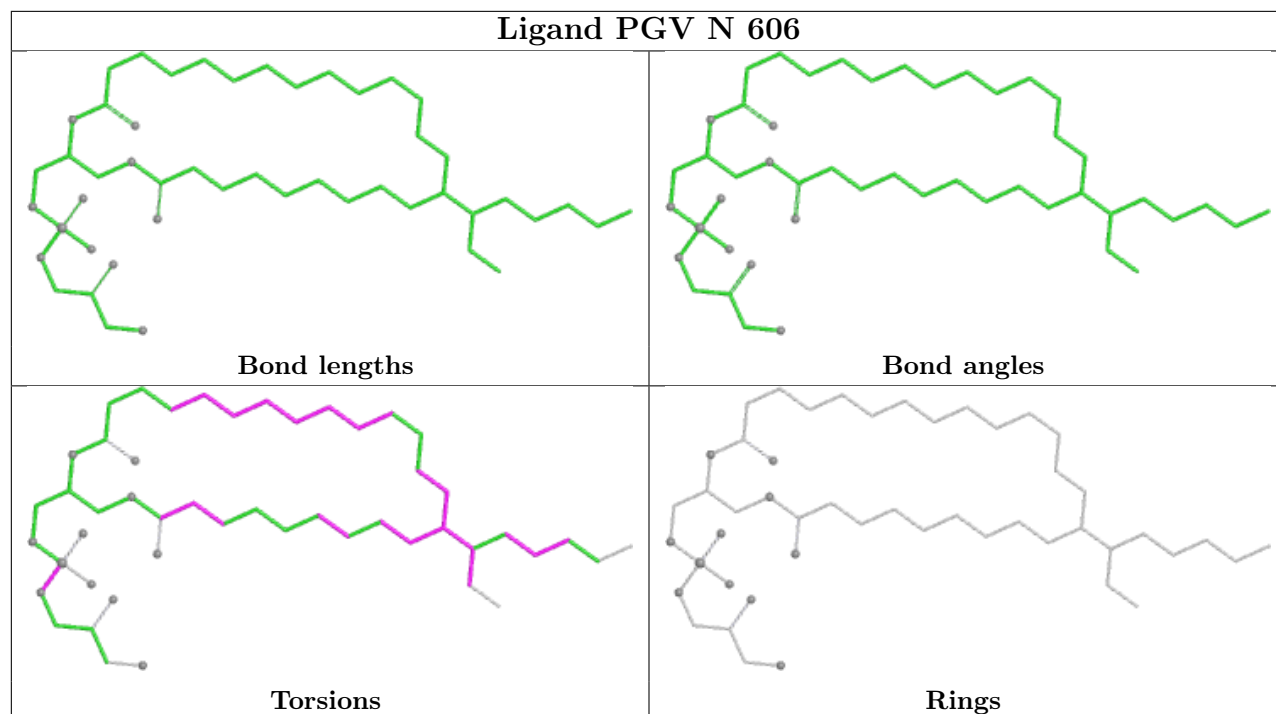


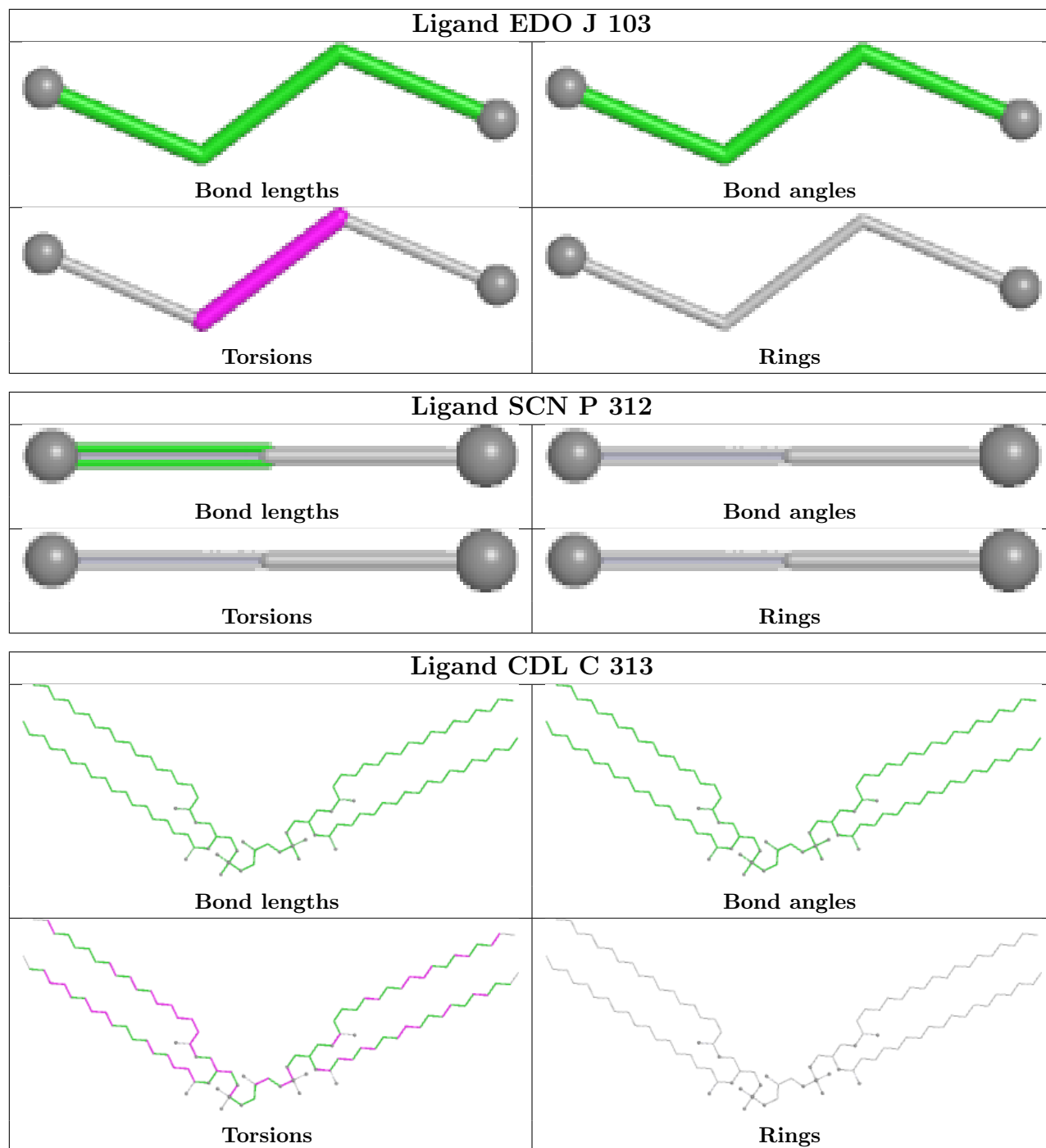


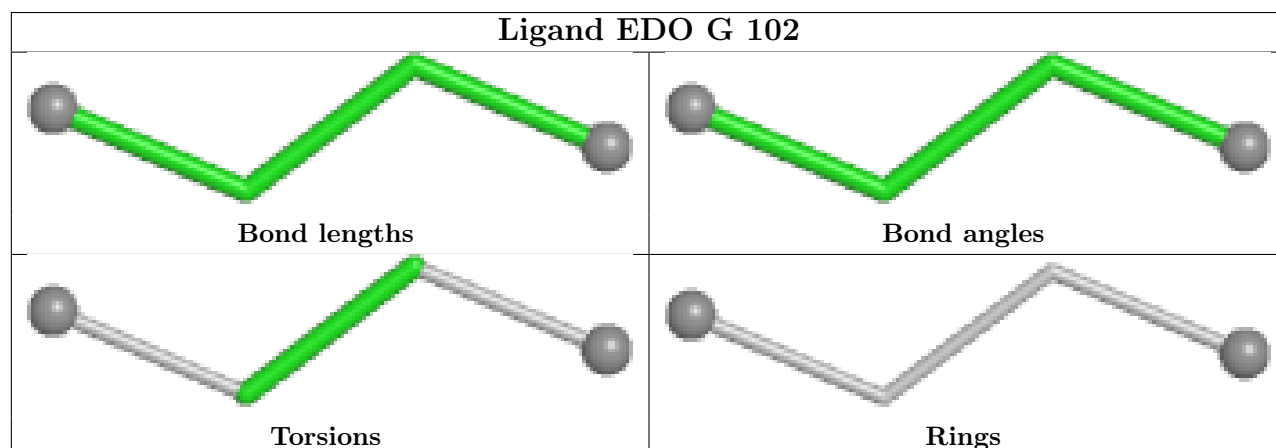
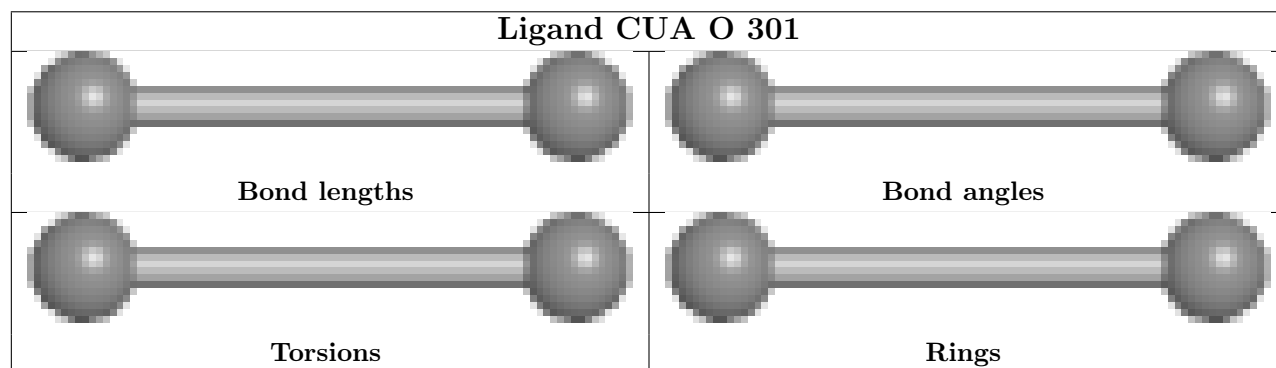
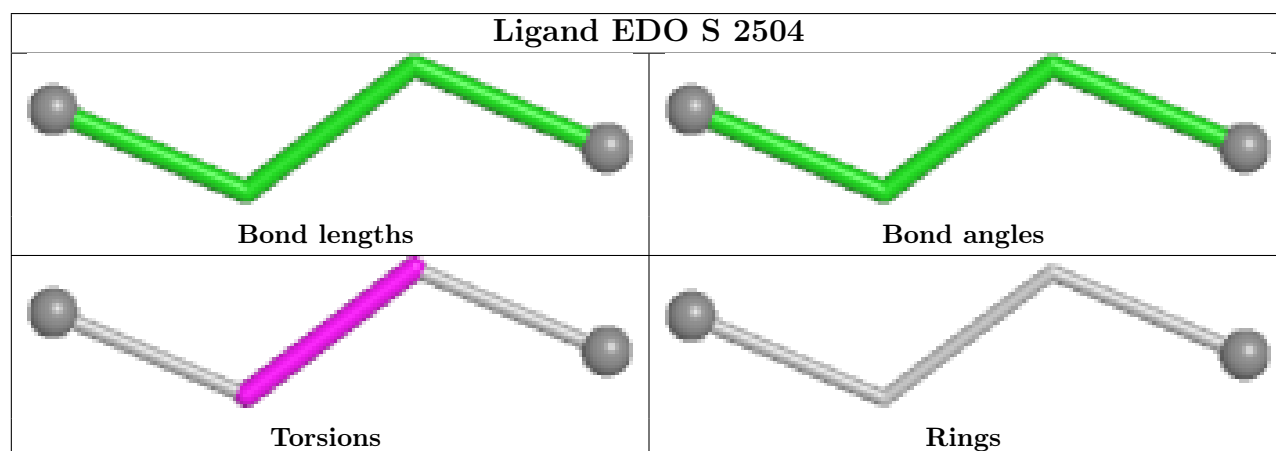
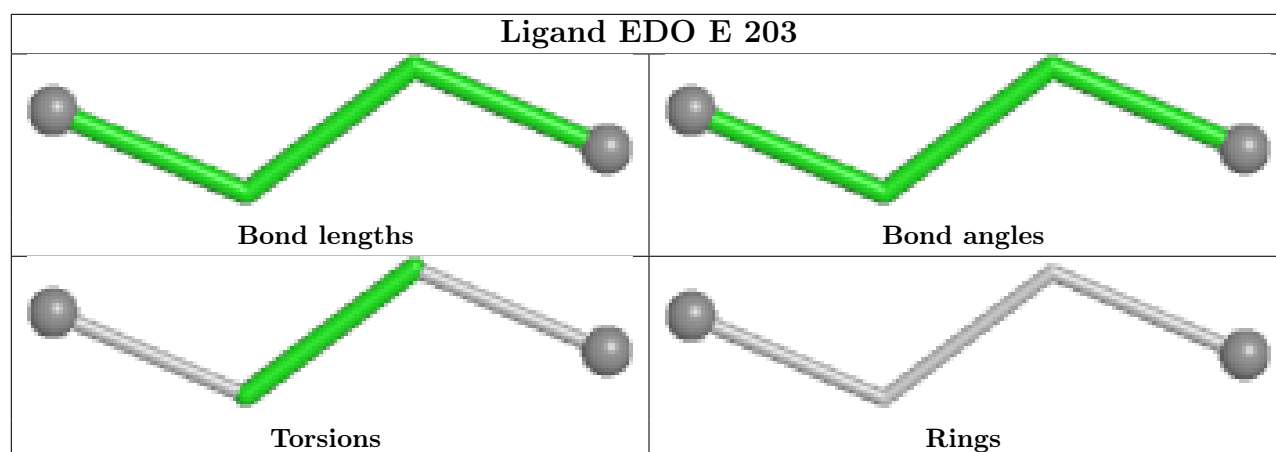


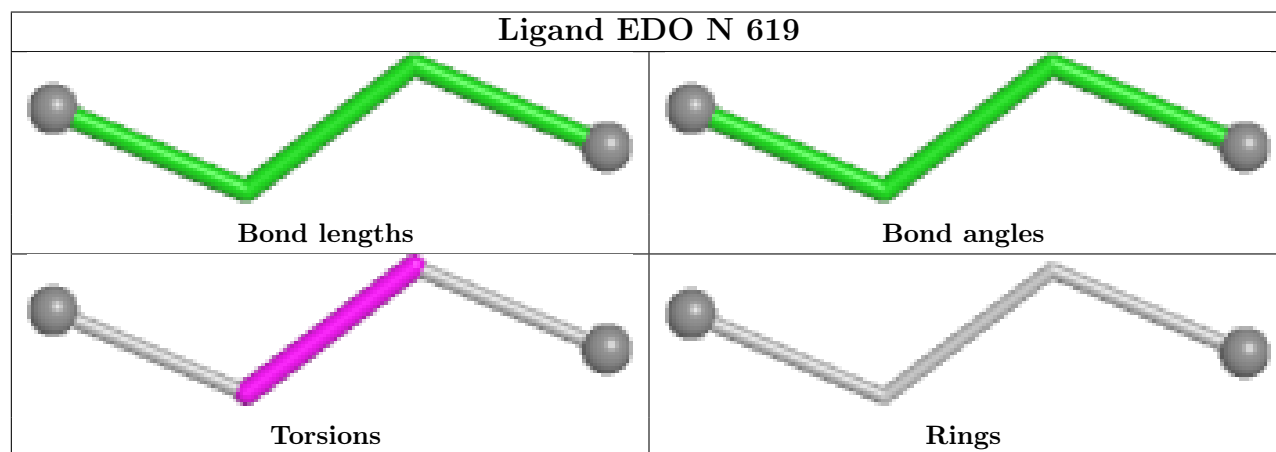
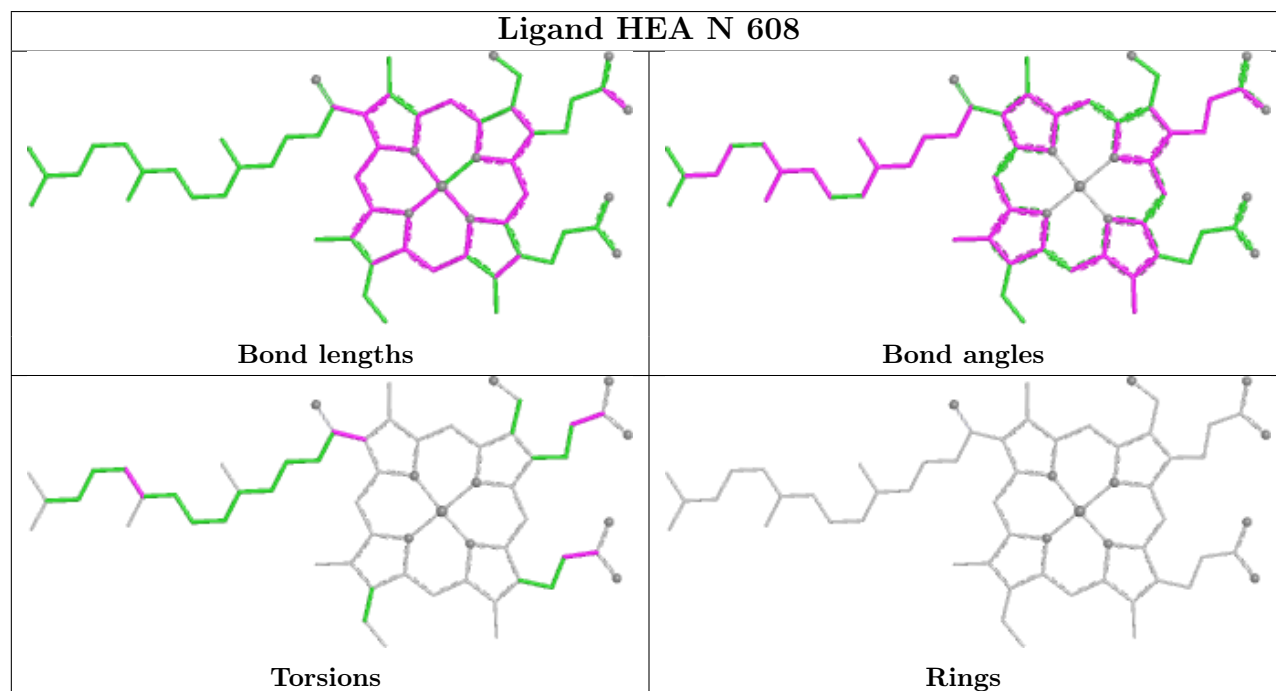
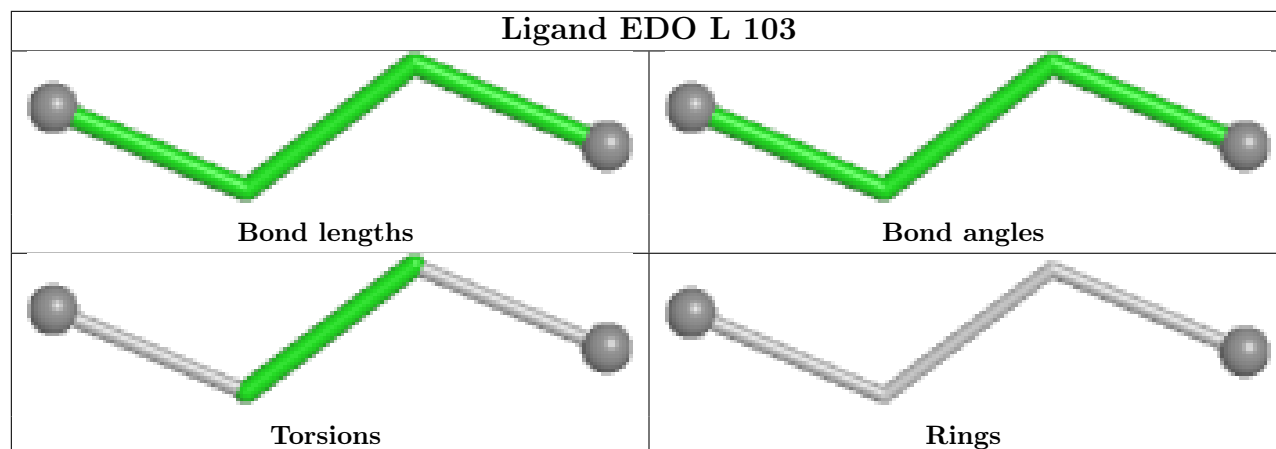


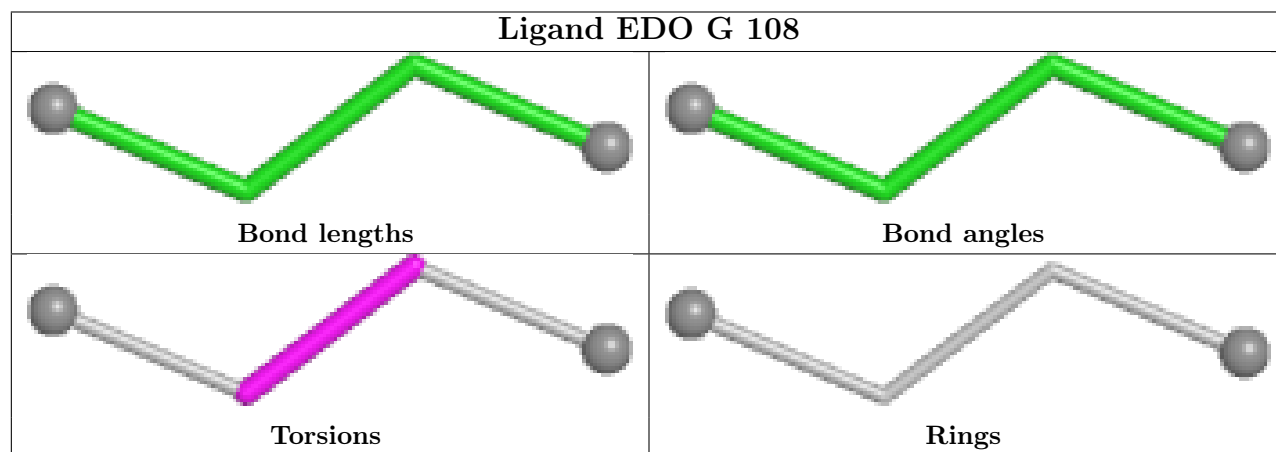
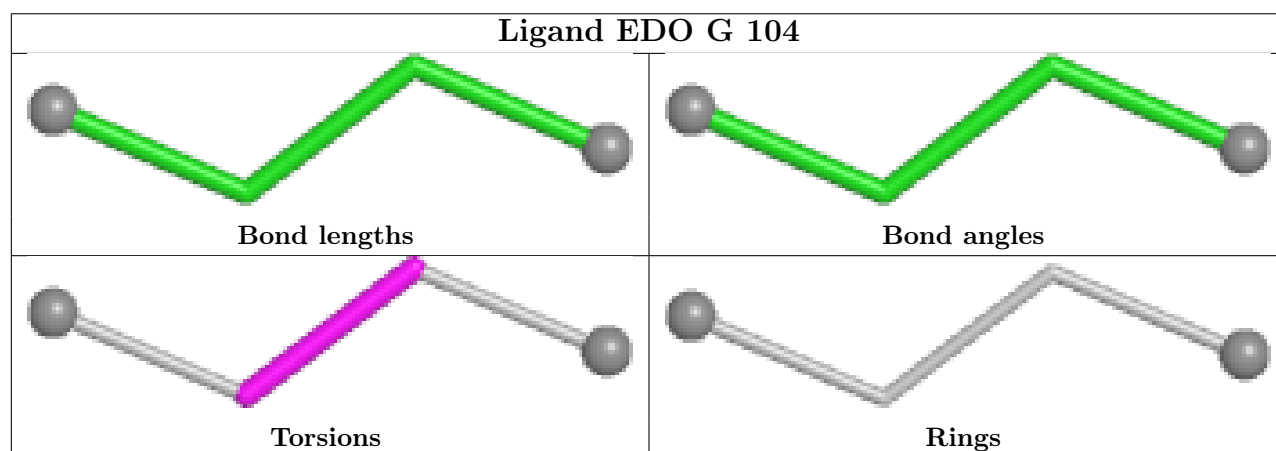
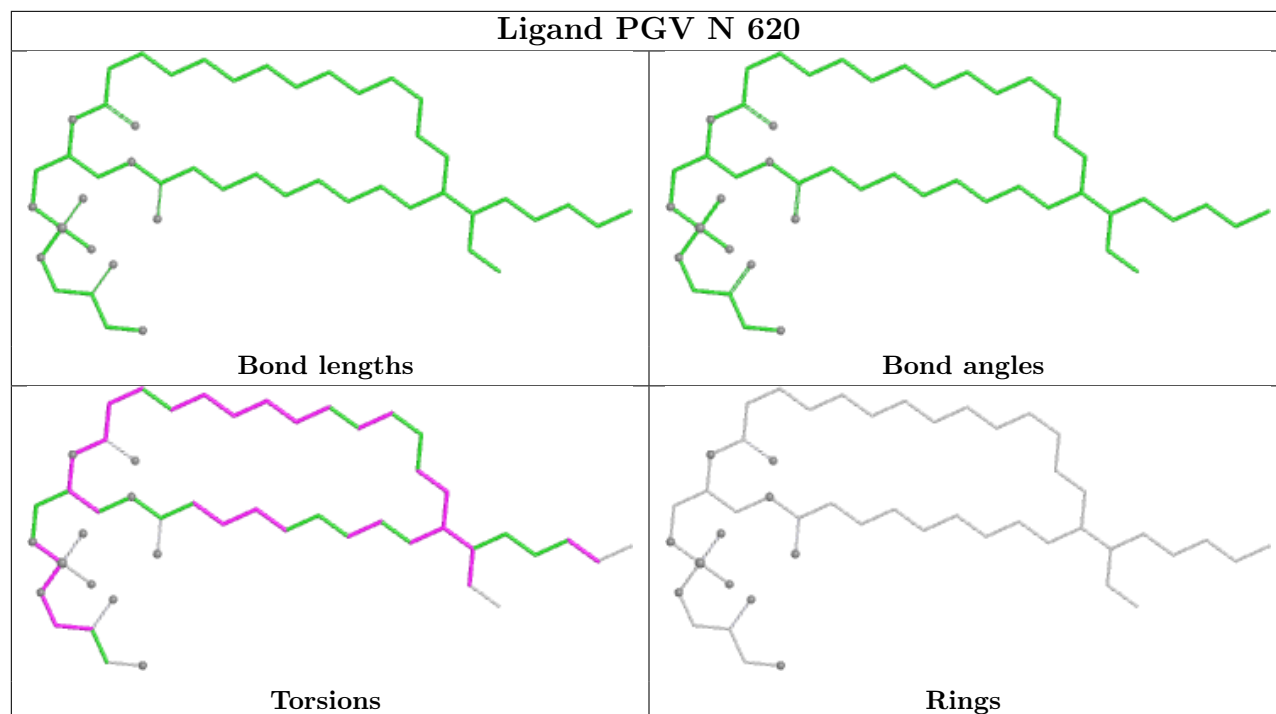




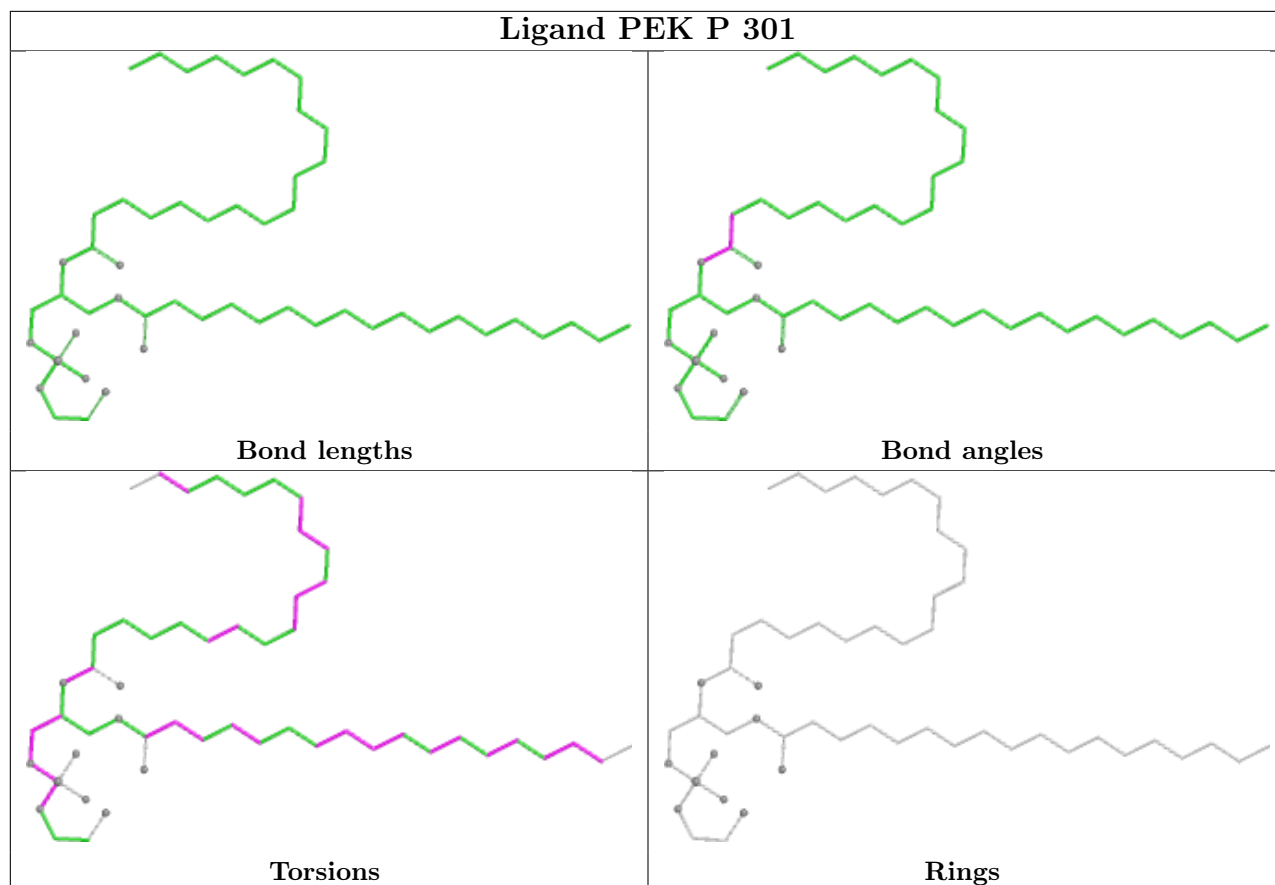




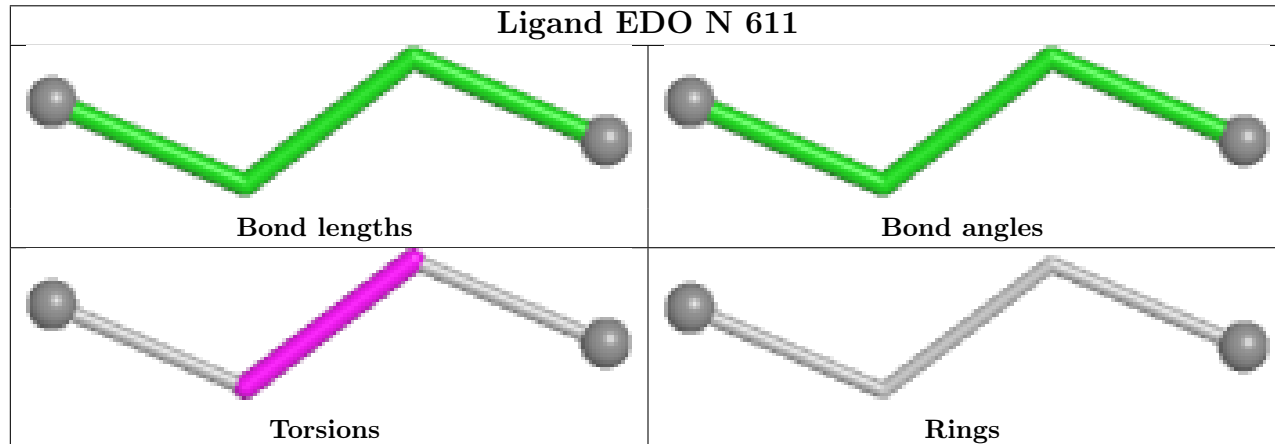


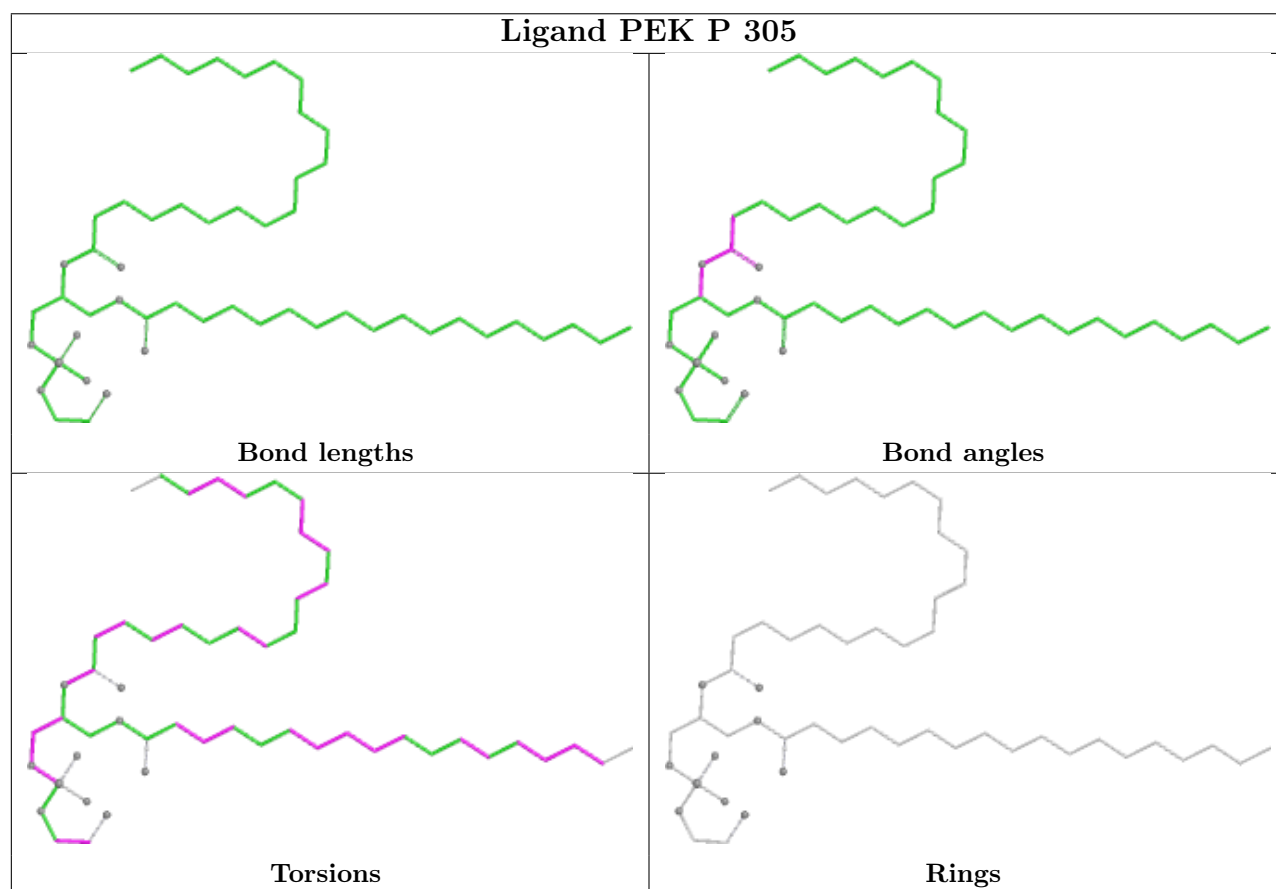
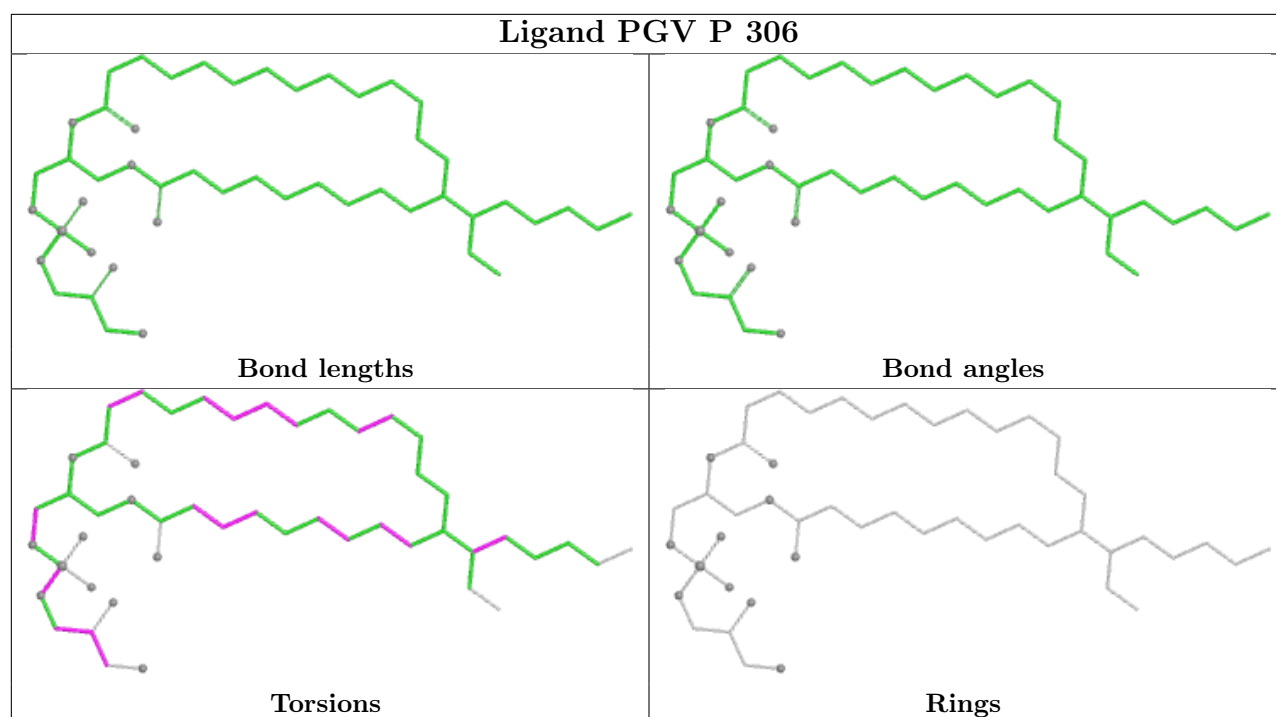


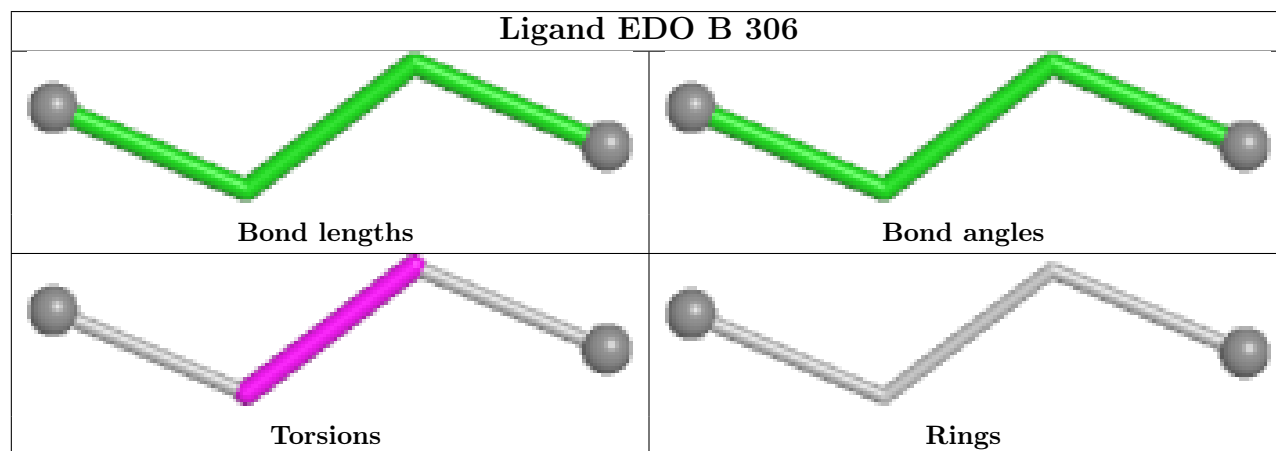
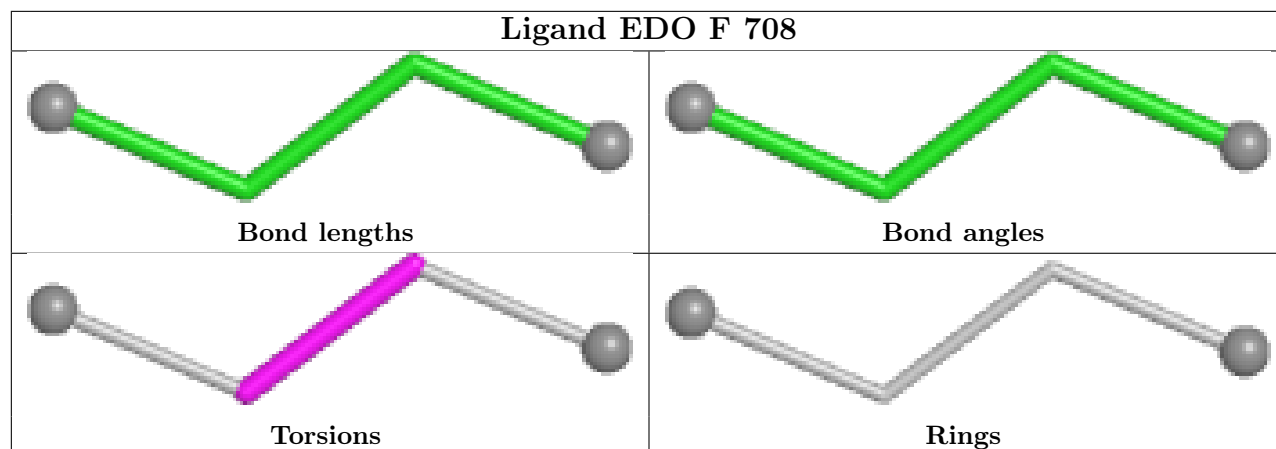
Ligand PEK P 301

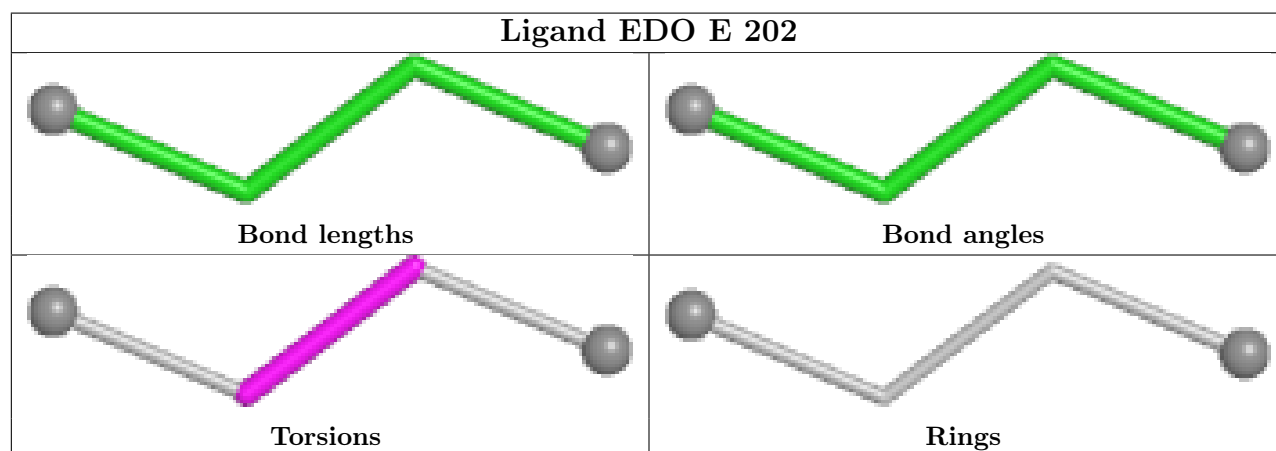
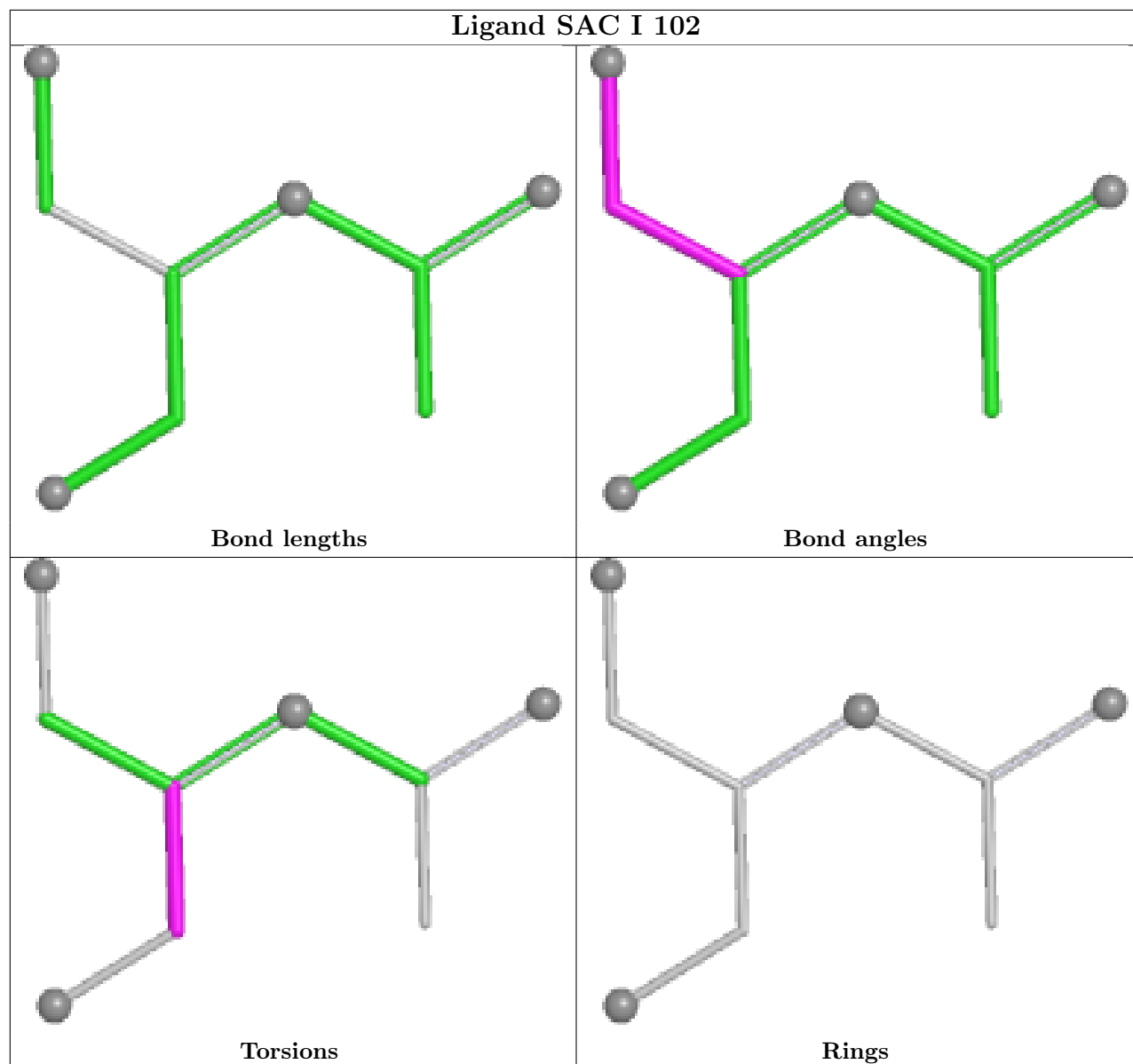


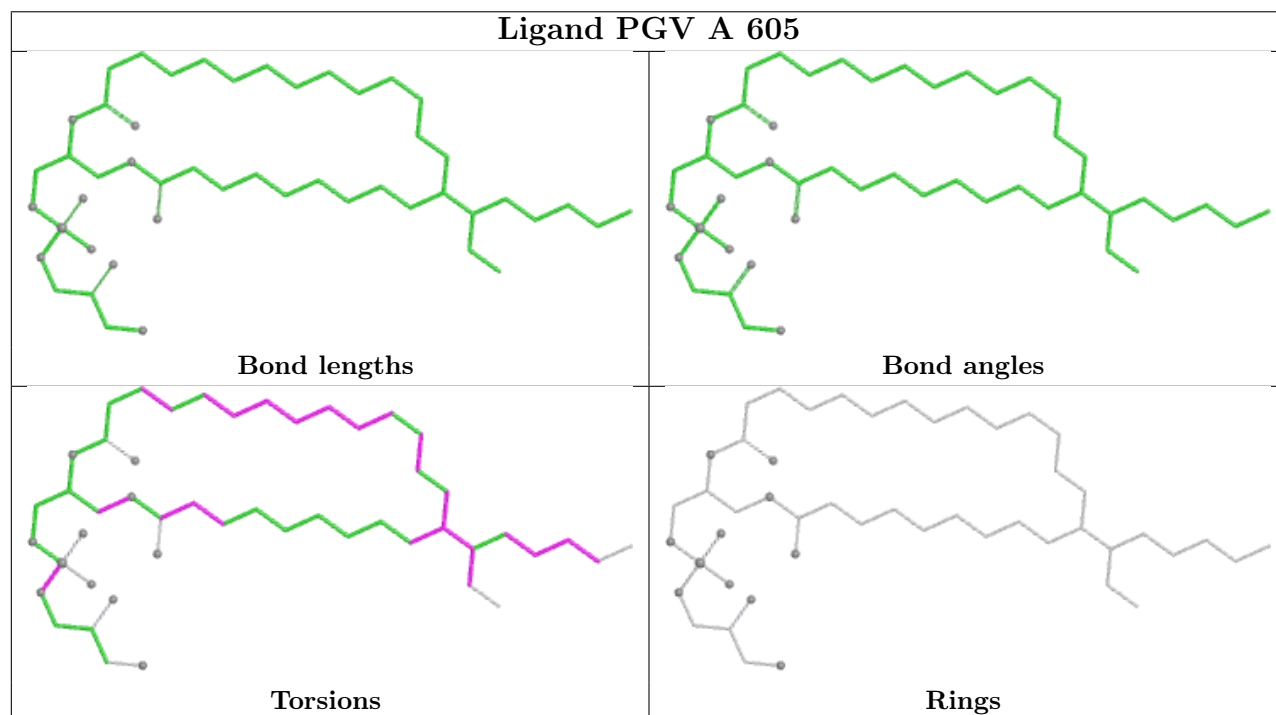
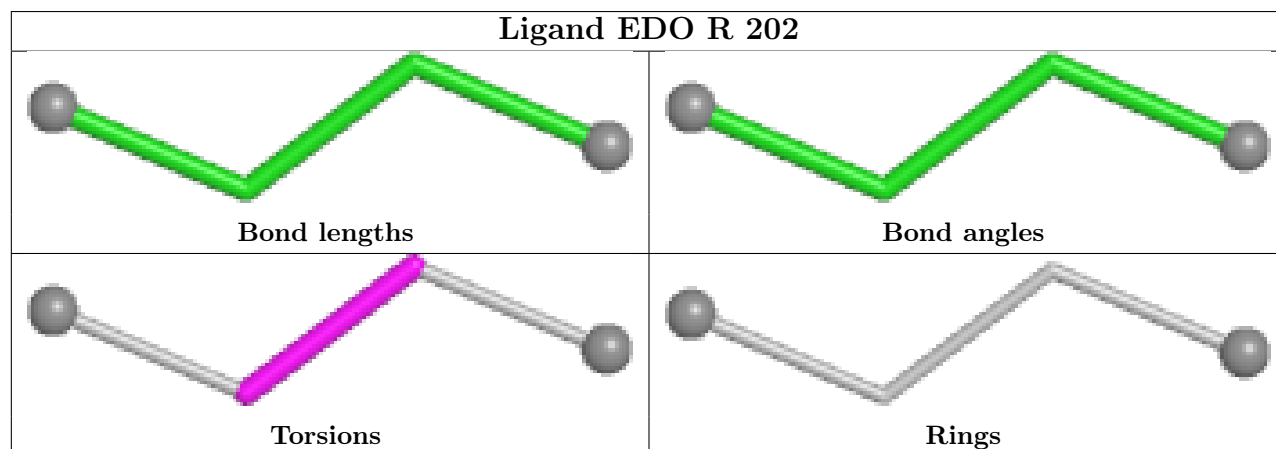
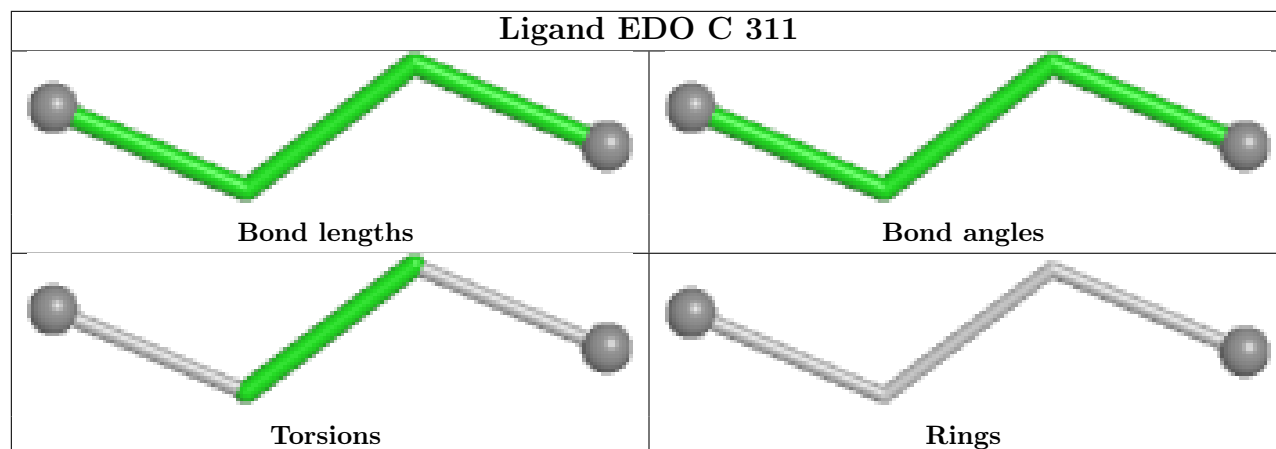
Ligand EDO N 611

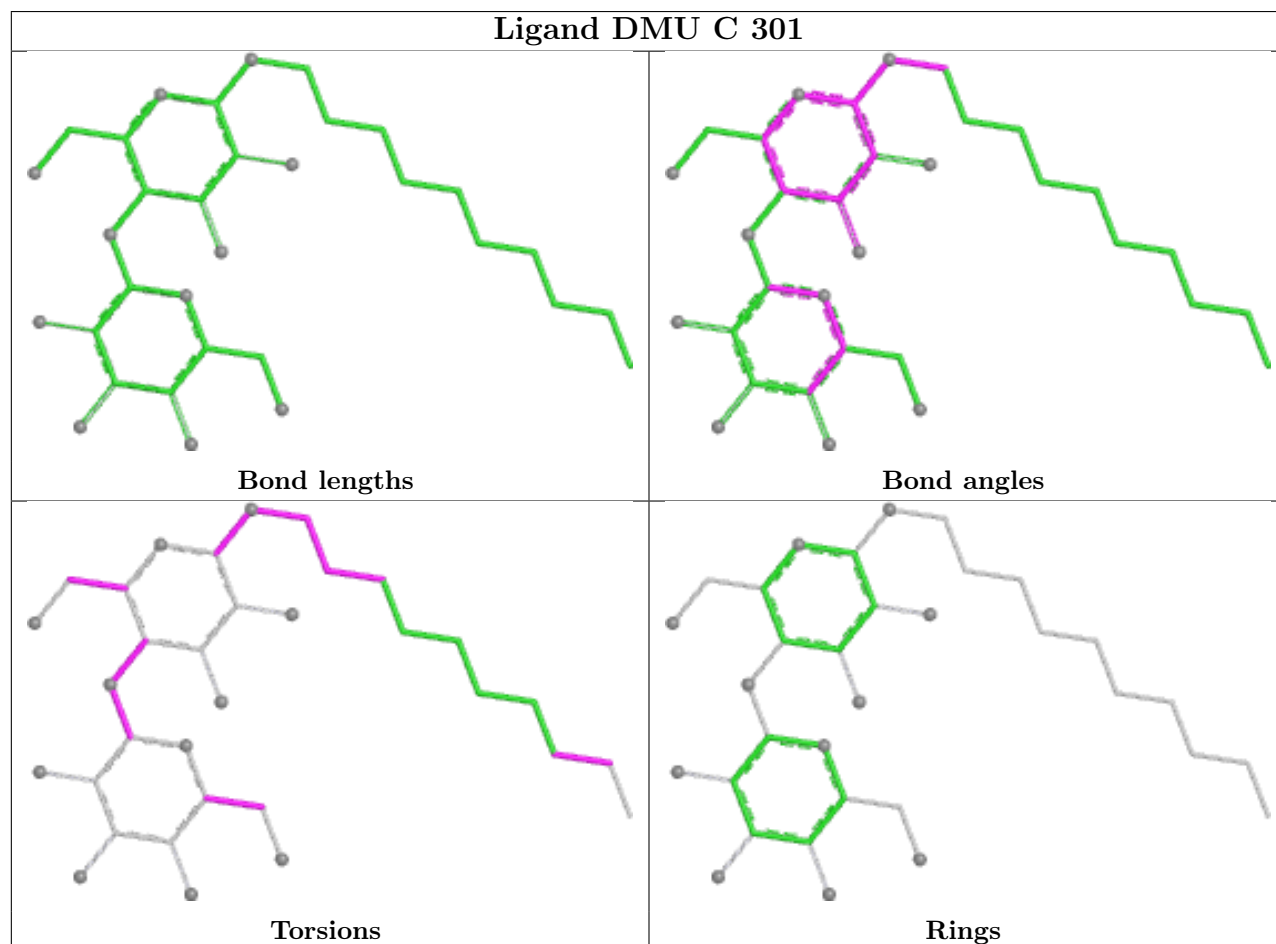
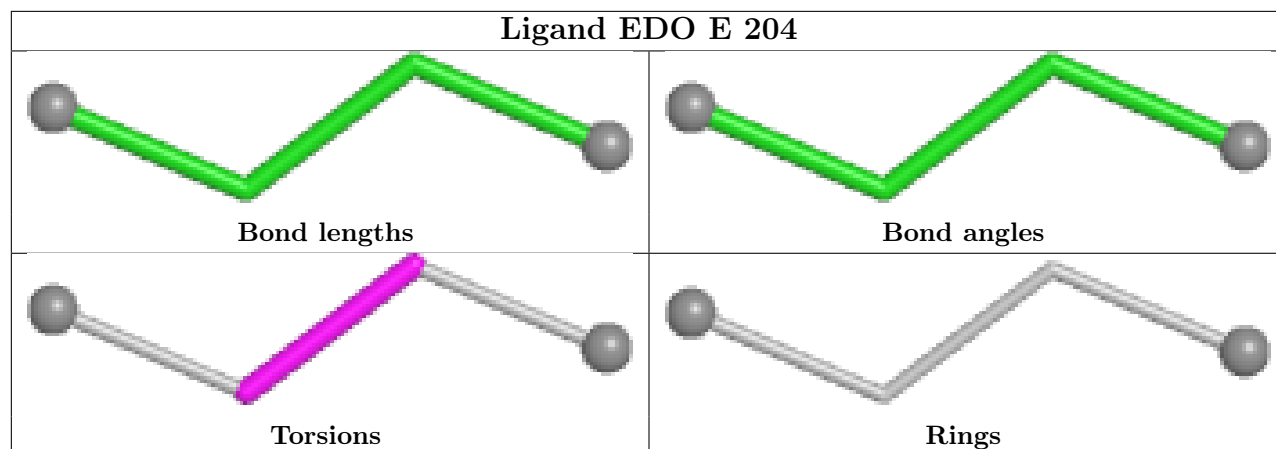


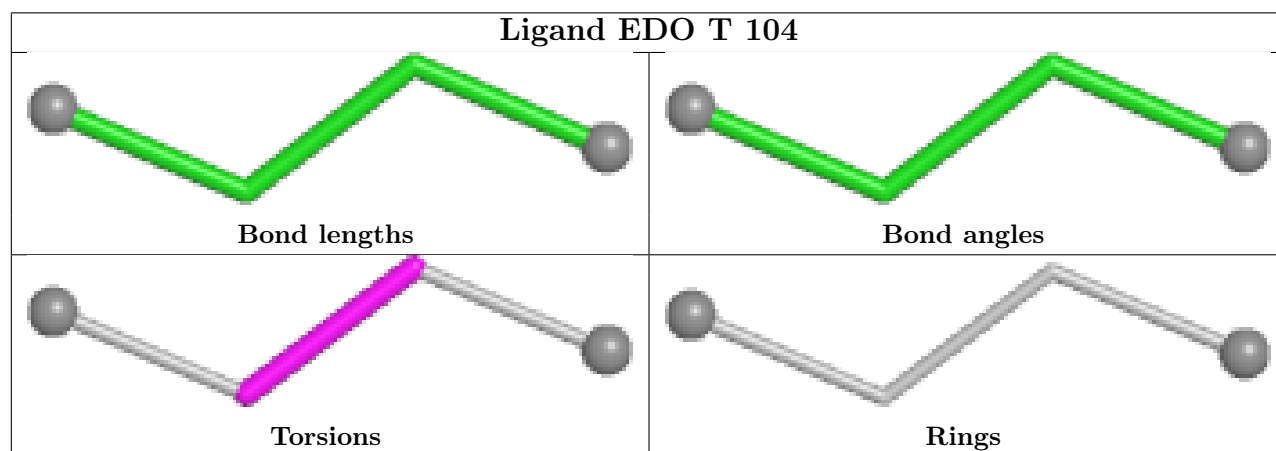
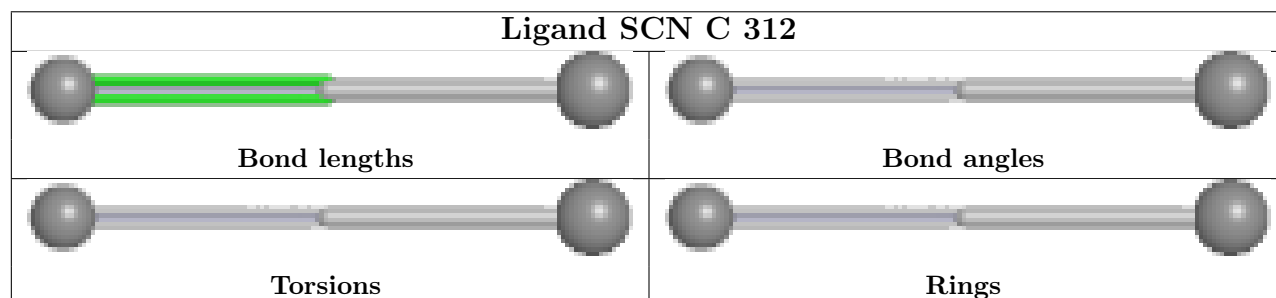
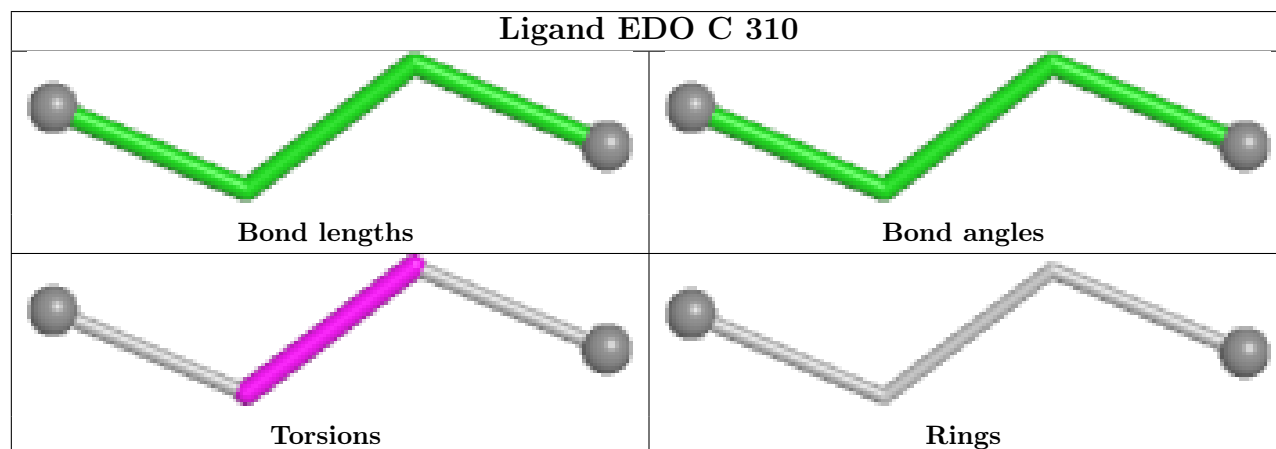
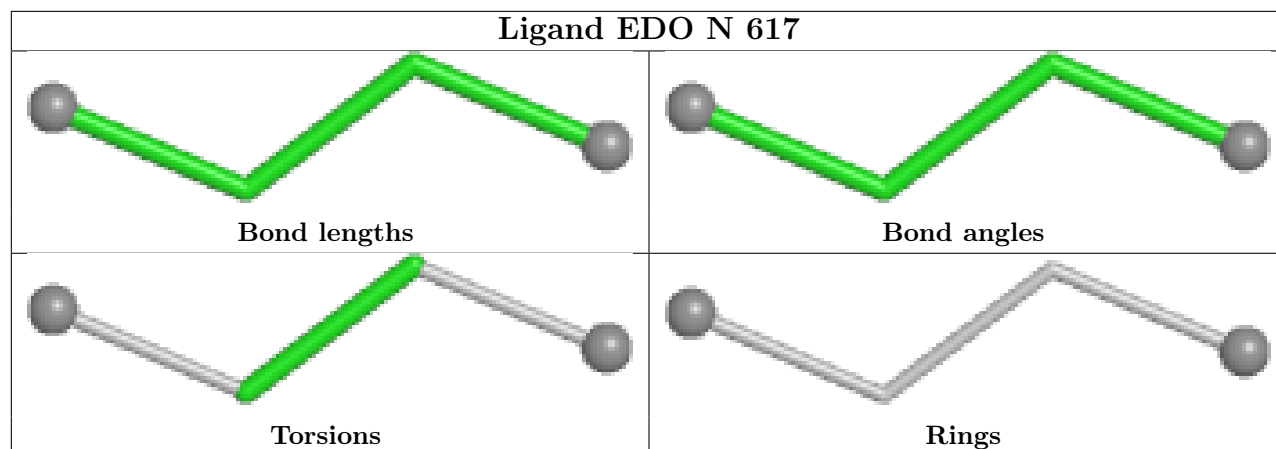


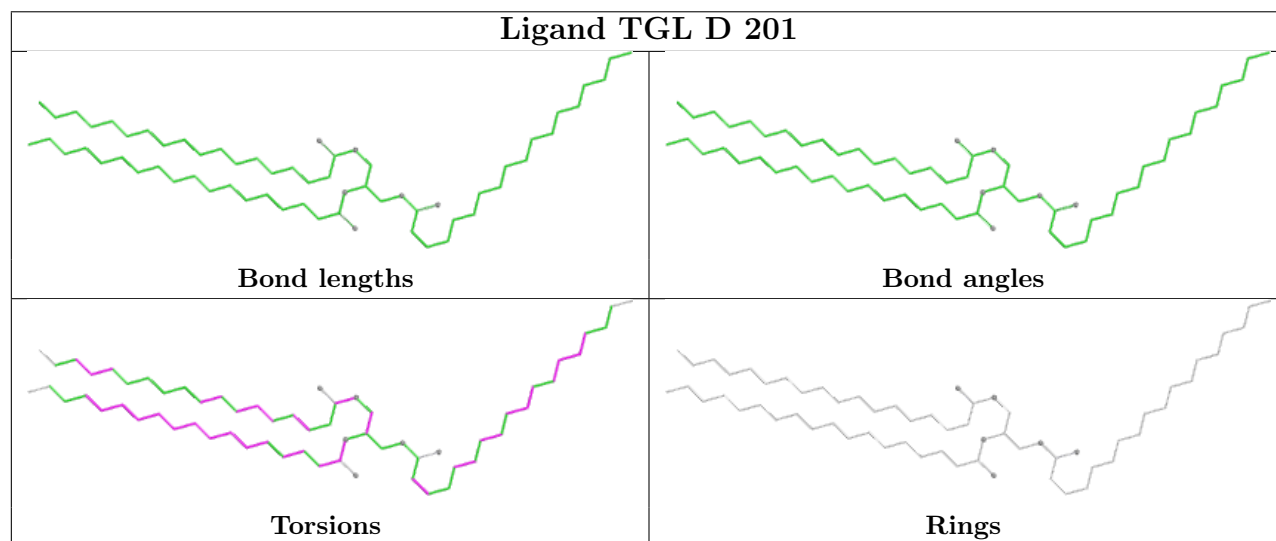
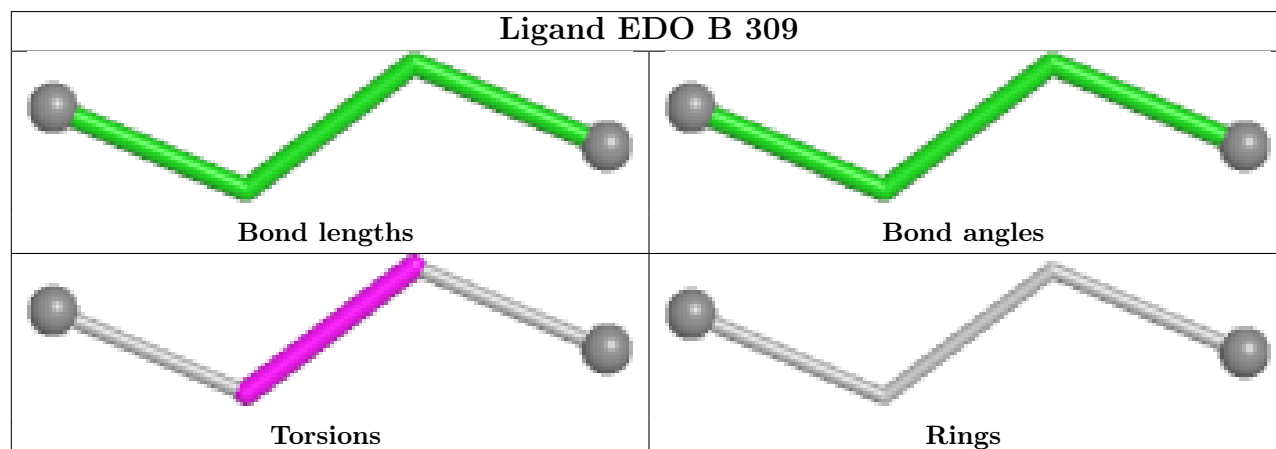
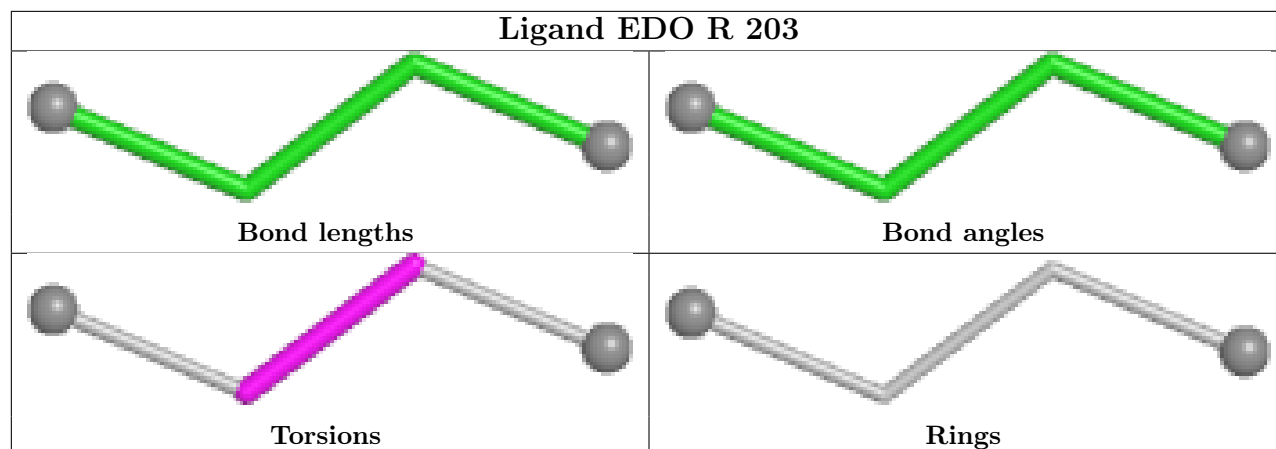


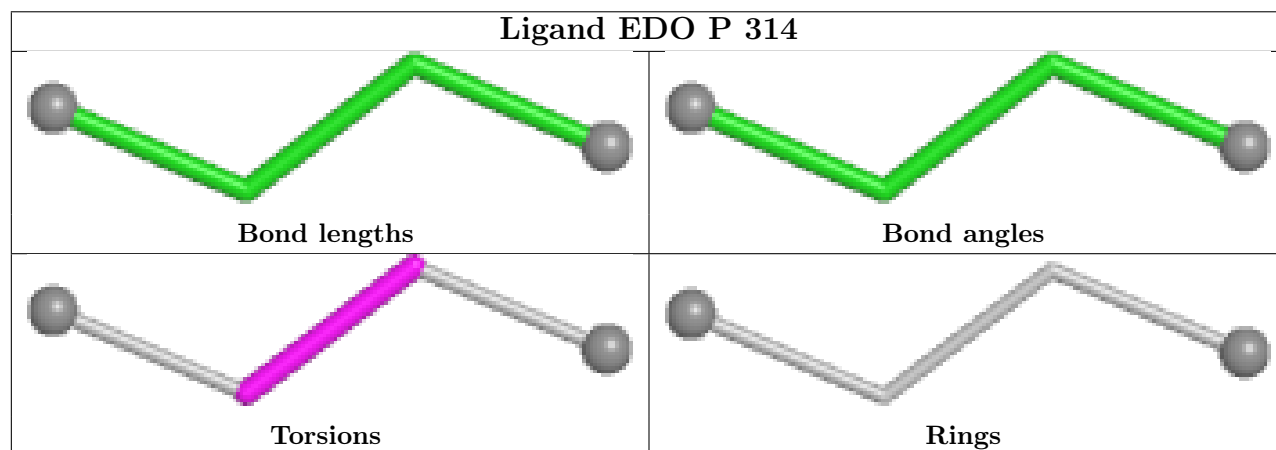
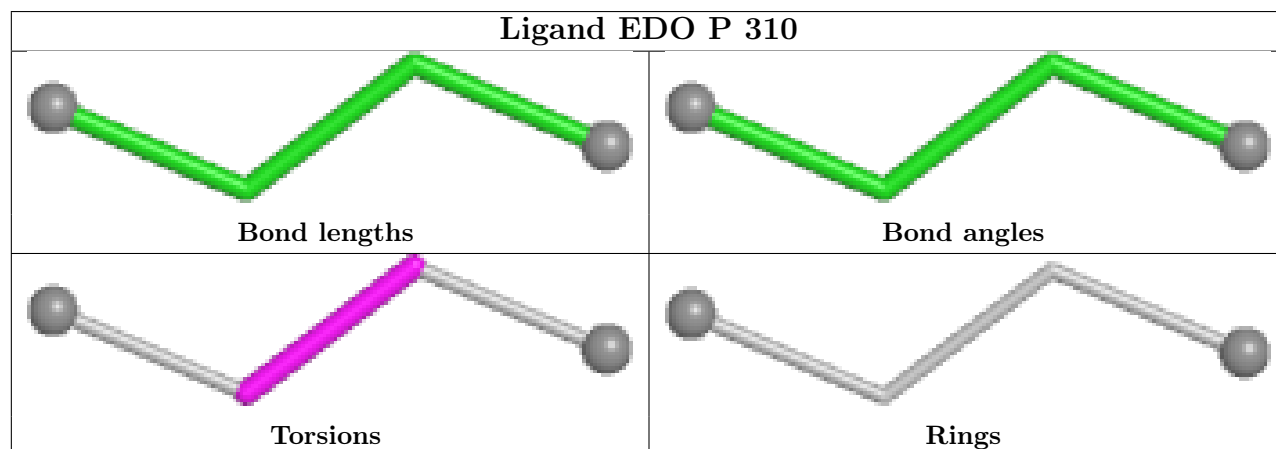
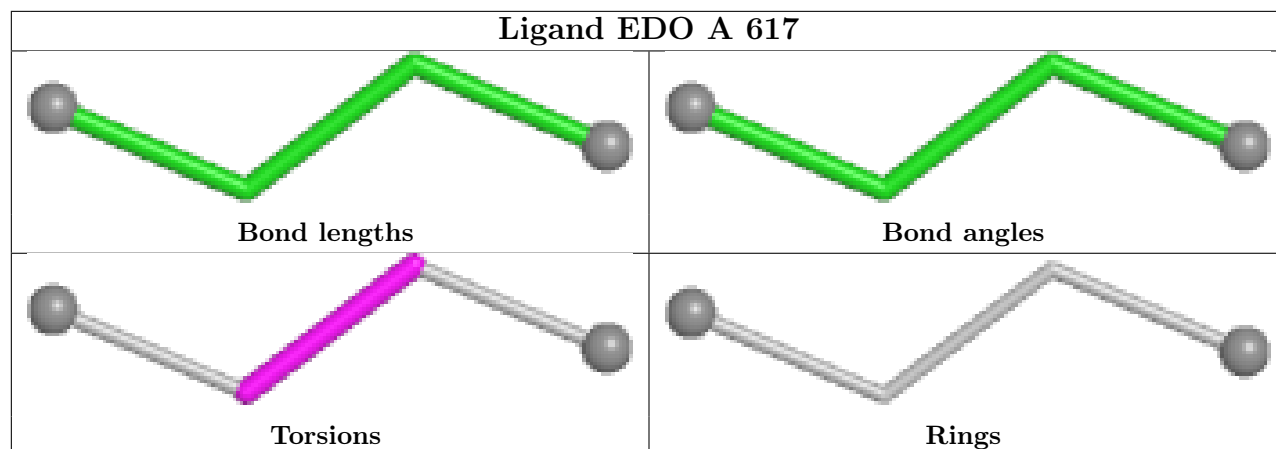


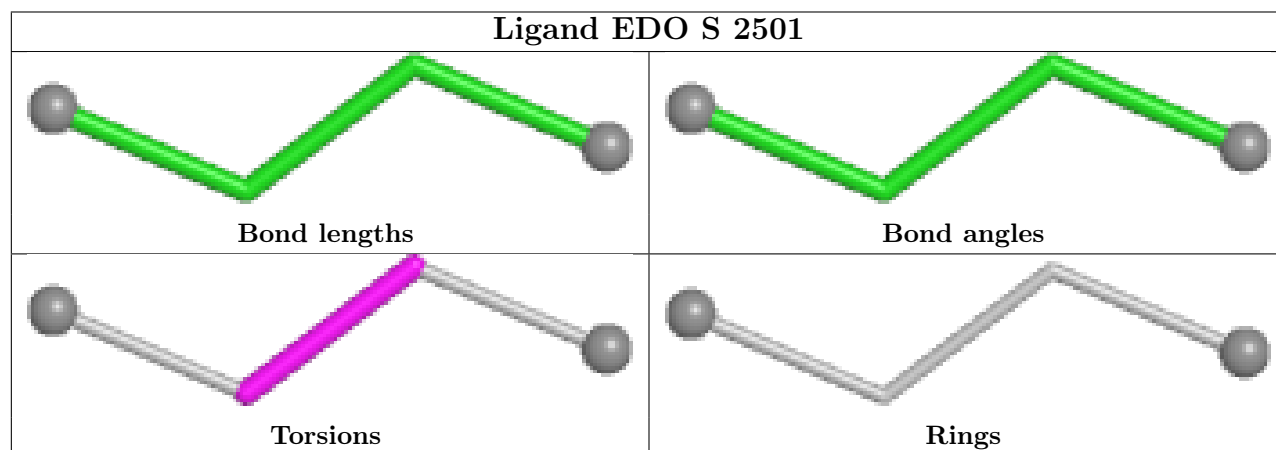
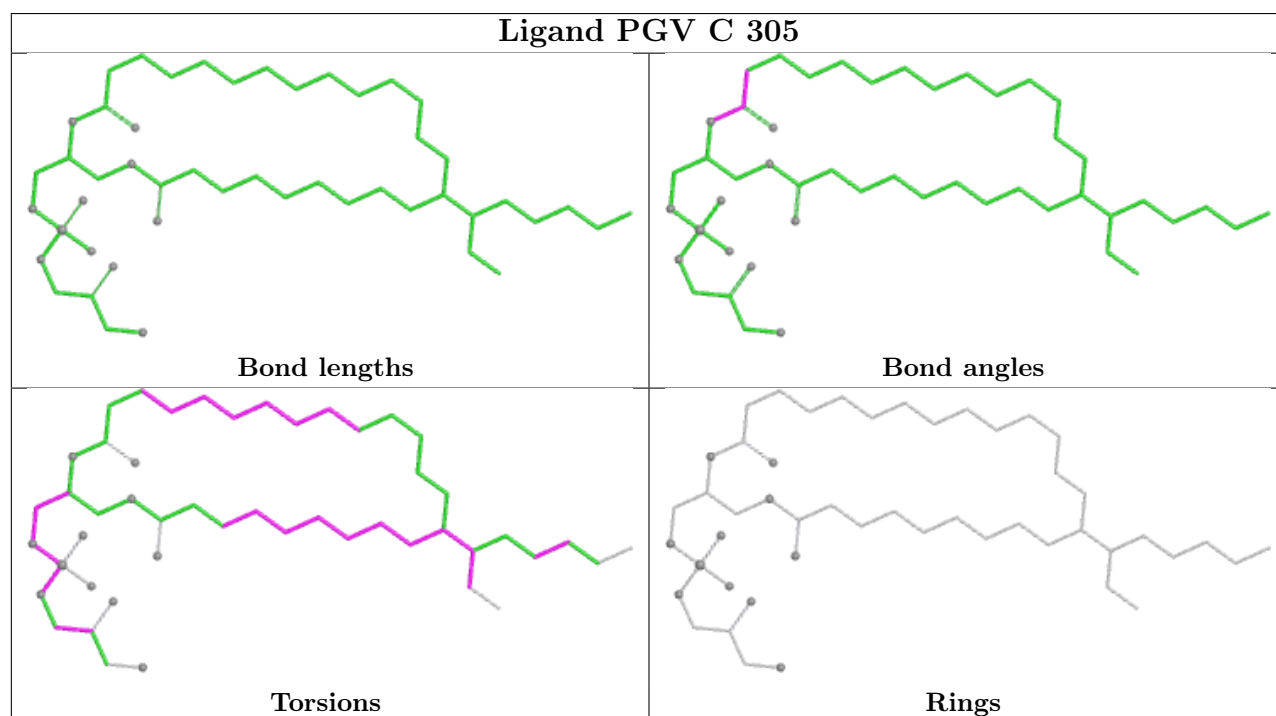
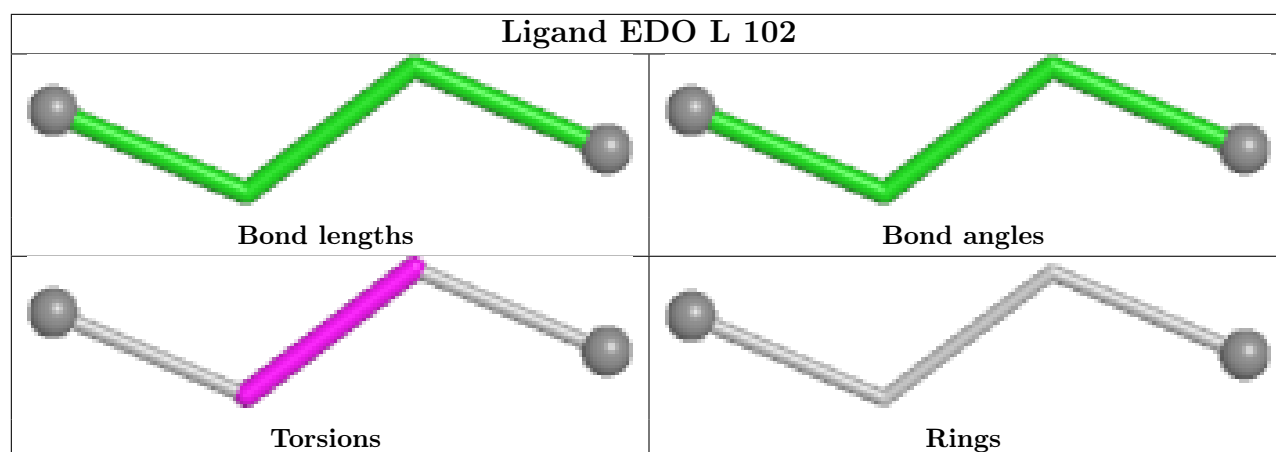












5.7 Other polymers [i](#)

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	513/514 (99%)	-0.43	3 (0%) 85 85	23, 34, 45, 80	0
1	N	513/514 (99%)	-0.09	1 (0%) 91 90	31, 48, 64, 96	0
2	B	226/227 (99%)	-0.19	5 (2%) 62 61	24, 40, 80, 122	0
2	O	226/227 (99%)	0.26	11 (4%) 35 34	41, 56, 92, 129	0
3	C	259/261 (99%)	-0.28	2 (0%) 82 82	28, 39, 57, 92	0
3	P	259/261 (99%)	-0.10	3 (1%) 76 76	33, 46, 66, 108	0
4	D	144/147 (97%)	-0.17	0 100 100	32, 45, 65, 94	0
4	Q	144/147 (97%)	0.69	8 (5%) 30 29	51, 70, 107, 168	0
5	E	105/109 (96%)	-0.21	1 (0%) 79 78	37, 47, 73, 138	0
5	R	105/109 (96%)	0.18	2 (1%) 66 65	46, 60, 79, 116	0
6	F	98/98 (100%)	0.23	7 (7%) 22 20	33, 47, 105, 172	0
6	S	98/98 (100%)	0.77	12 (12%) 8 7	40, 64, 115, 142	0
7	G	83/85 (97%)	0.76	18 (21%) 2 2	31, 47, 126, 141	0
7	T	83/85 (97%)	0.81	16 (19%) 3 3	34, 55, 120, 143	0
8	H	79/85 (92%)	0.12	5 (6%) 26 25	35, 48, 85, 106	0
8	U	79/85 (92%)	0.36	7 (8%) 15 14	45, 59, 103, 127	0
9	I	72/73 (98%)	0.02	1 (1%) 73 72	37, 50, 75, 103	0
9	V	72/73 (98%)	0.44	6 (8%) 17 16	46, 70, 92, 121	0
10	J	58/59 (98%)	0.06	2 (3%) 48 48	38, 50, 83, 118	0
10	W	58/59 (98%)	0.78	5 (8%) 16 15	51, 67, 97, 117	0
11	K	49/56 (87%)	-0.03	1 (2%) 65 63	33, 47, 59, 74	0
11	X	49/56 (87%)	0.60	1 (2%) 65 63	60, 72, 94, 104	0
12	L	46/47 (97%)	-0.09	2 (4%) 40 39	32, 42, 61, 106	0
12	Y	46/47 (97%)	0.60	2 (4%) 40 39	50, 66, 88, 111	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	M	43/46 (93%)	-0.23	1 (2%) 61 60	33, 42, 79, 93	0
13	Z	43/46 (93%)	0.66	3 (6%) 22 21	54, 69, 104, 129	0
All	All	3550/3614 (98%)	0.04	125 (3%) 47 47	23, 48, 86, 172	0

All (125) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
7	G	3	ALA	8.3
4	Q	5	VAL	8.1
4	Q	6	VAL	7.7
7	G	4	ALA	7.2
6	F	96	LEU	6.6
6	F	97	ALA	6.5
6	S	96	LEU	6.3
7	G	2	SER	6.3
9	I	37	PHE	6.0
11	X	6	ALA	5.9
10	W	52	TRP	5.5
8	U	8	ILE	5.5
6	S	1	ALA	5.4
7	G	1	ALA	5.3
7	G	5	LYS	5.2
7	G	36	TRP	5.0
6	F	1	ALA	4.9
7	T	6	GLY	4.5
4	Q	4	SER	4.5
7	G	10	GLY	4.4
7	T	7	ASP	4.4
6	S	97	ALA	4.2
7	T	36	TRP	4.1
8	H	7	LYS	4.1
7	T	8	HIS	4.1
7	T	5	LYS	4.1
9	V	37	PHE	4.0
7	T	2	SER	4.0
7	T	9	GLY	3.9
3	C	3	HIS	3.9
6	F	94	HIS	3.9
2	O	65	TRP	3.9
6	S	98	HIS	3.9
6	S	95	GLN	3.9

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Mol	Chain	Res	Type	RSRZ
7	G	8	HIS	3.9
7	T	84	LYS	3.7
7	T	10	GLY	3.7
7	T	3	ALA	3.7
6	S	94	HIS	3.7
8	U	45	ALA	3.6
12	Y	2	HIS	3.6
4	Q	7	LYS	3.6
8	U	7	LYS	3.5
7	T	4	ALA	3.5
7	G	84	LYS	3.5
3	P	3	HIS	3.5
7	T	39	SER	3.4
7	G	6	GLY	3.4
2	O	58	ALA	3.4
7	G	9	GLY	3.4
8	U	9	LYS	3.3
6	S	3	GLY	3.2
7	G	38	HIS	3.2
10	W	58	LYS	3.1
8	H	8	ILE	3.1
10	J	52	TRP	3.1
11	K	6	ALA	3.0
6	S	93	PRO	3.0
2	O	61	VAL	3.0
9	V	2	THR	3.0
2	O	32	PHE	3.0
7	T	1	ALA	3.0
2	O	227	LEU	2.9
9	V	3	ALA	2.9
12	Y	16	GLU	2.9
9	V	73	LYS	2.8
5	E	5	HIS	2.8
5	R	5	HIS	2.8
12	L	47	LYS	2.8
2	O	113	TYR	2.8
4	Q	35	ALA	2.8
7	G	7	ASP	2.7
10	W	48	TYR	2.7
13	Z	42	LYS	2.7
12	L	2	HIS	2.7
8	H	47	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
3	P	37	PHE	2.6
10	W	56	PRO	2.6
1	A	514	LYS	2.6
6	S	13	ALA	2.6
7	T	42	ARG	2.6
6	S	2	SER	2.6
6	F	98	HIS	2.6
2	B	65	TRP	2.5
13	Z	35	TYR	2.5
1	A	298	ASP	2.5
2	B	58	ALA	2.5
9	V	72	ALA	2.5
8	H	44	THR	2.5
8	H	46	LYS	2.4
2	O	57	ASP	2.4
8	U	47	GLY	2.4
6	S	43	LYS	2.4
3	P	38	ASN	2.4
7	G	40	GLY	2.3
7	T	35	SER	2.3
2	O	64	ILE	2.3
5	R	109	VAL	2.3
2	O	59	GLN	2.3
2	B	59	GLN	2.3
6	F	93	PRO	2.3
6	F	2	SER	2.3
7	G	37	LEU	2.2
9	V	25	PHE	2.2
7	T	38	HIS	2.2
2	O	116	LEU	2.2
1	A	297	MET	2.2
7	G	42	ARG	2.2
10	W	17	GLY	2.2
13	Z	32	TRP	2.2
13	M	35	TYR	2.2
2	B	90	ILE	2.1
2	B	60	GLU	2.1
2	O	115	ASP	2.1
10	J	58	LYS	2.1
4	Q	115	TRP	2.1
6	S	87	THR	2.1
8	U	84	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
7	G	41	HIS	2.1
4	Q	11	TYR	2.1
1	N	514	LYS	2.0
4	Q	8	SER	2.0
3	C	122	HIS	2.0
7	G	34	ASN	2.0
8	U	46	LYS	2.0

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
7	TPO	T	11	11/12	0.43	0.23	90,147,179,180	0
7	TPO	G	11	11/12	0.74	0.20	89,110,167,172	0
1	FME	A	1	10/11	0.88	0.15	56,62,83,98	0
1	FME	N	1	10/11	0.90	0.15	68,76,83,90	0
2	FME	O	1	10/11	0.94	0.12	46,59,71,71	0
2	FME	B	1	10/11	0.95	0.09	36,39,46,50	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(Å ²)	Q<0.9
29	SAC	V	101	9/10	0.47	0.22	116,137,149,155	0
19	EDO	J	102	4/4	0.58	0.27	79,86,87,90	0
19	EDO	M	102	4/4	0.60	0.29	104,107,107,108	0
29	SAC	I	102	9/10	0.67	0.21	106,118,122,127	0
19	EDO	N	610	4/4	0.69	0.37	77,84,86,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
19	EDO	W	304	4/4	0.70	0.18	104,107,107,109	0
19	EDO	G	108	4/4	0.71	0.20	82,85,88,90	0
24	CHD	Y	101	29/29	0.71	0.21	99,133,148,152	0
28	PSC	I	101	52/52	0.72	0.28	57,142,198,206	0
17	PGV	C	305	51/51	0.74	0.24	57,87,112,135	0
24	CHD	T	105	29/29	0.74	0.25	111,147,163,166	0
25	PEK	T	103	53/53	0.77	0.24	67,90,130,142	0
26	CDL	C	313	100/100	0.77	0.28	64,102,161,168	0
22	TGL	B	302	63/63	0.77	0.28	56,85,120,124	0
28	PSC	R	201	52/52	0.77	0.25	63,128,220,230	0
19	EDO	V	103	4/4	0.77	0.30	96,97,102,104	0
19	EDO	K	901	4/4	0.77	0.28	90,95,100,104	0
26	CDL	P	313	100/100	0.78	0.28	72,105,154,169	0
23	DMU	C	314	33/33	0.79	0.17	59,96,112,113	0
25	PEK	C	303	53/53	0.79	0.26	65,100,202,213	0
23	DMU	C	301	33/33	0.79	0.18	88,130,144,147	0
19	EDO	O	302	4/4	0.80	0.33	78,90,101,101	0
22	TGL	N	604	63/63	0.80	0.26	65,95,116,126	0
19	EDO	L	103	4/4	0.80	0.25	103,107,110,112	0
25	PEK	P	301	53/53	0.80	0.21	60,84,142,144	0
25	PEK	P	305	53/53	0.80	0.25	70,94,158,171	0
19	EDO	N	613	4/4	0.80	0.23	60,71,74,75	0
19	EDO	E	205	4/4	0.81	0.19	86,90,92,94	0
17	PGV	A	604	51/51	0.81	0.21	38,71,124,132	0
19	EDO	C	315	4/4	0.81	0.21	53,57,63,64	0
23	DMU	P	303	33/33	0.81	0.15	62,112,128,134	0
23	DMU	G	103	33/33	0.82	0.18	52,110,125,131	0
19	EDO	N	617	4/4	0.82	0.17	73,83,91,95	0
26	CDL	P	308	100/100	0.83	0.23	62,103,160,171	0
19	EDO	D	204	4/4	0.84	0.30	68,83,92,94	0
19	EDO	B	307	4/4	0.84	0.20	68,69,71,75	0
17	PGV	P	307	51/51	0.84	0.21	77,102,124,126	0
22	TGL	N	605	63/63	0.84	0.24	58,89,132,140	0
19	EDO	Q	1603	4/4	0.84	0.37	93,105,109,113	0
19	EDO	S	2504	4/4	0.84	0.29	82,91,92,97	0
19	EDO	D	202	4/4	0.84	0.17	58,66,66,67	0
22	TGL	D	201	63/63	0.85	0.23	61,83,105,111	0
19	EDO	A	617	4/4	0.85	0.25	69,79,79,89	0
26	CDL	C	306	100/100	0.85	0.21	54,104,147,157	0
17	PGV	N	620	51/51	0.85	0.20	46,80,142,157	0
22	TGL	N	616	63/63	0.85	0.26	73,104,137,156	0
22	TGL	L	101	63/63	0.86	0.21	45,85,118,127	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
19	EDO	A	615	4/4	0.86	0.22	74,84,88,94	0
19	EDO	P	311	4/4	0.86	0.17	67,76,78,80	0
19	EDO	A	610	4/4	0.86	0.22	61,65,66,71	0
24	CHD	W	302	29/29	0.86	0.15	85,104,115,117	0
19	EDO	M	103	4/4	0.86	0.18	70,70,74,74	0
19	EDO	I	103	4/4	0.87	0.16	73,81,84,86	0
19	EDO	S	2508	4/4	0.87	0.14	97,105,108,109	0
15	MG	N	602	1/1	0.87	0.09	46,46,46,46	0
19	EDO	W	303	4/4	0.87	0.22	86,93,97,99	0
19	EDO	R	203	4/4	0.87	0.22	86,88,90,91	0
19	EDO	B	306	4/4	0.88	0.19	65,70,76,76	0
19	EDO	A	611	4/4	0.88	0.18	70,74,75,77	0
19	EDO	E	204	4/4	0.88	0.19	71,76,76,76	0
19	EDO	V	102	4/4	0.88	0.28	96,98,99,101	0
19	EDO	B	308	4/4	0.88	0.20	74,80,81,82	0
19	EDO	P	302	4/4	0.88	0.27	98,102,111,111	0
19	EDO	F	708	4/4	0.88	0.17	56,70,82,94	0
19	EDO	B	305	4/4	0.88	0.16	58,63,68,69	0
19	EDO	N	612	4/4	0.89	0.20	63,65,65,68	0
19	EDO	T	104	4/4	0.89	0.21	76,78,79,83	0
19	EDO	F	707	4/4	0.89	0.18	62,70,71,72	0
19	EDO	F	704	4/4	0.89	0.21	71,79,80,87	0
23	DMU	Z	101	33/33	0.89	0.13	72,89,99,100	0
19	EDO	J	104	4/4	0.90	0.11	54,58,60,61	0
19	EDO	C	311	4/4	0.90	0.16	66,74,75,76	0
19	EDO	S	2503	4/4	0.90	0.15	54,62,68,82	0
19	EDO	P	310	4/4	0.90	0.13	65,66,67,74	0
19	EDO	S	2505	4/4	0.90	0.14	75,79,81,83	0
19	EDO	U	1501	4/4	0.90	0.24	60,62,65,66	0
19	EDO	A	616	4/4	0.90	0.21	71,73,83,84	0
19	EDO	S	2509	4/4	0.90	0.20	74,81,83,83	0
19	EDO	W	301	4/4	0.91	0.18	74,85,92,97	0
19	EDO	G	106	4/4	0.91	0.14	58,67,67,70	0
15	MG	A	602	1/1	0.91	0.08	30,30,30,30	0
19	EDO	S	2506	4/4	0.91	0.17	69,77,81,81	0
19	EDO	N	615	4/4	0.91	0.15	61,63,67,70	0
19	EDO	Q	1601	4/4	0.91	0.22	86,92,92,93	0
19	EDO	F	706	4/4	0.91	0.12	57,59,61,67	0
19	EDO	T	106	4/4	0.91	0.12	57,59,60,61	0
19	EDO	K	902	4/4	0.91	0.12	58,63,63,65	0
19	EDO	O	303	4/4	0.91	0.20	76,87,98,108	0
24	CHD	J	101	29/29	0.92	0.12	69,83,97,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
19	EDO	J	103	4/4	0.92	0.14	65,71,79,79	0
19	EDO	A	618	4/4	0.92	0.16	80,80,89,89	0
19	EDO	Q	1602	4/4	0.92	0.15	79,81,82,83	0
19	EDO	I	104	4/4	0.92	0.19	65,66,68,71	0
19	EDO	S	2507	4/4	0.92	0.19	67,81,89,92	0
19	EDO	V	104	4/4	0.92	0.15	90,91,95,96	0
19	EDO	E	203	4/4	0.92	0.15	63,68,69,73	0
19	EDO	B	309	4/4	0.93	0.13	61,67,67,69	0
19	EDO	L	102	4/4	0.93	0.12	59,61,66,73	0
23	DMU	M	101	33/33	0.93	0.10	41,62,78,84	0
19	EDO	B	310	4/4	0.93	0.11	78,80,81,83	0
19	EDO	N	619	4/4	0.93	0.13	75,75,84,87	0
19	EDO	D	203	4/4	0.93	0.14	61,68,69,70	0
24	CHD	P	309	29/29	0.93	0.10	56,65,75,77	0
19	EDO	G	104	4/4	0.93	0.12	79,88,89,93	0
19	EDO	B	304	4/4	0.93	0.10	51,53,53,53	0
19	EDO	N	611	4/4	0.93	0.12	59,64,71,71	0
19	EDO	F	705	4/4	0.93	0.14	48,49,50,52	0
19	EDO	C	309	4/4	0.94	0.13	62,67,68,72	0
19	EDO	A	612	4/4	0.94	0.11	45,51,55,56	0
19	EDO	B	303	4/4	0.94	0.12	42,45,48,52	0
19	EDO	A	608	4/4	0.94	0.07	48,50,50,52	0
19	EDO	S	2501	4/4	0.94	0.15	83,85,88,90	0
19	EDO	E	201	4/4	0.95	0.11	53,53,54,56	0
19	EDO	E	202	4/4	0.95	0.07	44,46,46,47	0
17	PGV	N	606	51/51	0.95	0.12	41,53,75,79	0
19	EDO	A	613	4/4	0.95	0.21	63,72,76,79	0
25	PEK	T	102	53/53	0.95	0.14	46,69,118,124	0
19	EDO	C	308	4/4	0.95	0.12	51,52,54,61	0
20	SCN	C	312	3/3	0.95	0.13	38,38,39,62	0
19	EDO	N	618	4/4	0.95	0.13	72,81,85,85	0
24	CHD	C	302	29/29	0.95	0.07	34,40,48,52	0
24	CHD	C	307	29/29	0.95	0.08	57,64,69,76	0
19	EDO	R	202	4/4	0.95	0.14	56,59,59,60	0
19	EDO	F	703	4/4	0.95	0.13	81,87,89,93	0
19	EDO	N	609	4/4	0.95	0.11	60,61,62,65	0
19	EDO	G	105	4/4	0.95	0.14	69,73,74,75	0
19	EDO	A	609	4/4	0.96	0.10	40,40,44,44	0
17	PGV	C	304	51/51	0.96	0.11	28,45,104,112	0
24	CHD	G	107	29/29	0.96	0.07	39,44,50,55	0
25	PEK	G	101	53/53	0.96	0.12	38,55,87,100	0
19	EDO	G	102	4/4	0.96	0.08	31,33,33,34	0

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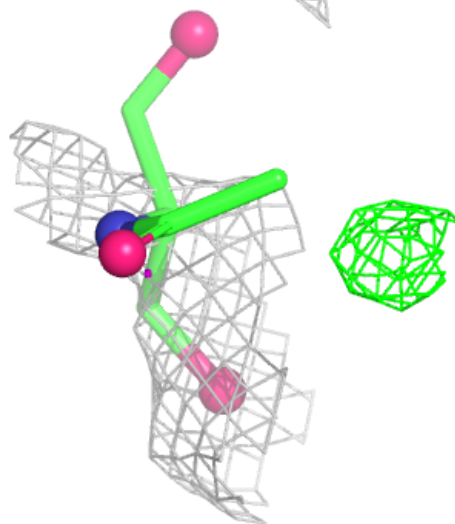
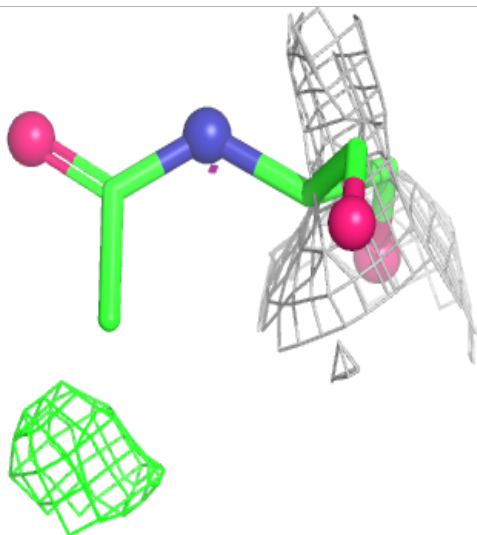
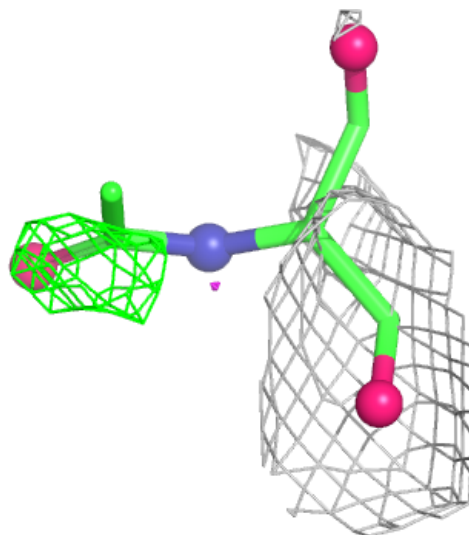
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
24	CHD	P	304	29/29	0.96	0.06	34,39,46,49	0
17	PGV	P	306	51/51	0.96	0.12	35,53,120,125	0
19	EDO	P	314	4/4	0.96	0.10	54,60,64,68	0
16	NA	N	603	1/1	0.97	0.04	57,57,57,57	0
19	EDO	F	701	4/4	0.97	0.10	60,67,70,72	0
20	SCN	P	312	3/3	0.97	0.15	53,53,53,56	0
24	CHD	T	101	29/29	0.97	0.06	38,41,46,47	0
17	PGV	A	605	51/51	0.97	0.09	30,47,69,75	0
19	EDO	C	310	4/4	0.97	0.08	61,64,64,69	0
18	HEA	N	608	60/60	0.97	0.09	39,48,63,69	0
18	HEA	A	607	60/60	0.98	0.07	25,31,65,72	0
18	HEA	N	607	60/60	0.98	0.07	36,41,51,55	0
20	SCN	A	614	3/3	0.98	0.09	26,26,27,34	3
16	NA	A	603	1/1	0.98	0.04	34,34,34,34	0
20	SCN	N	614	3/3	0.98	0.10	49,49,49,50	3
18	HEA	A	606	60/60	0.98	0.06	24,30,47,52	0
14	CU	N	601	1/1	0.99	0.02	48,48,48,48	0
21	CUA	B	301	2/2	0.99	0.03	31,31,31,34	0
21	CUA	O	301	2/2	0.99	0.03	53,53,53,55	0
27	ZN	F	702	1/1	1.00	0.03	41,41,41,41	0
27	ZN	S	2502	1/1	1.00	0.02	48,48,48,48	0
14	CU	A	601	1/1	1.00	0.01	32,32,32,32	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.

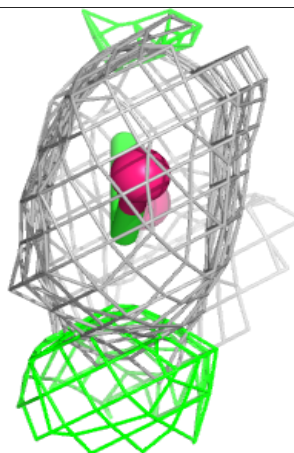
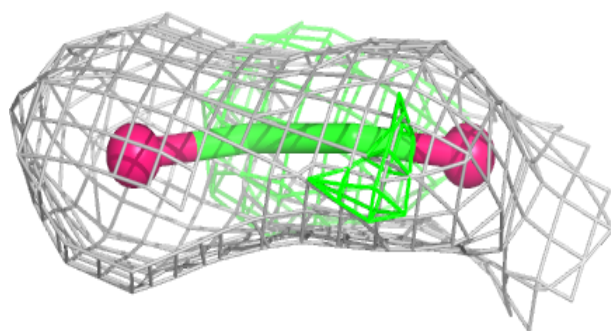
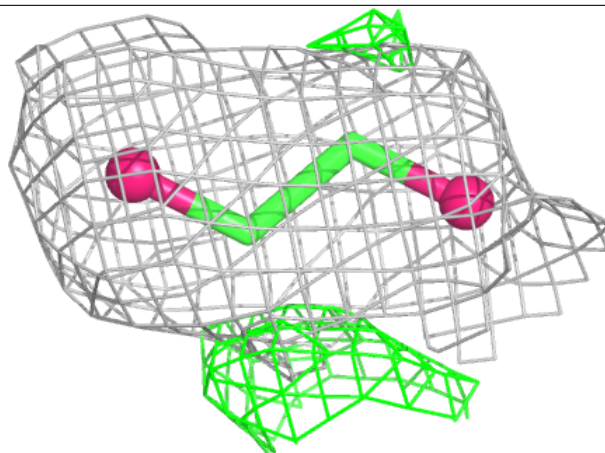
Electron density around SAC V 101:

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



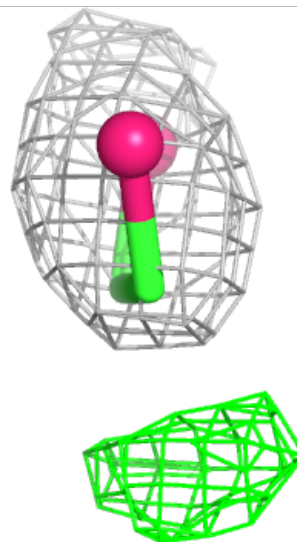
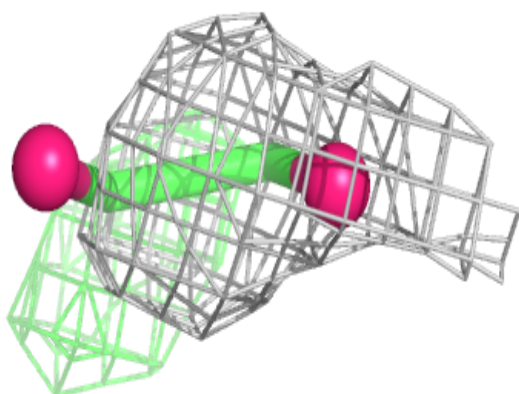
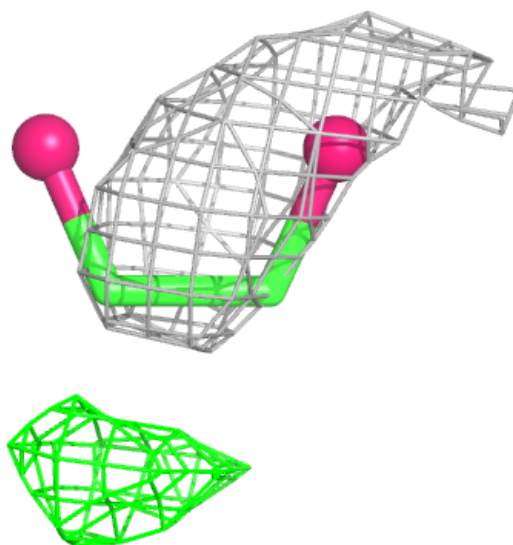
Electron density around EDO J 102:

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



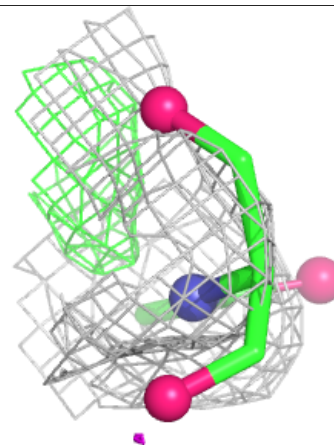
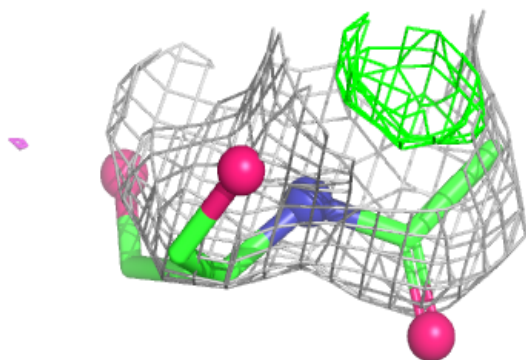
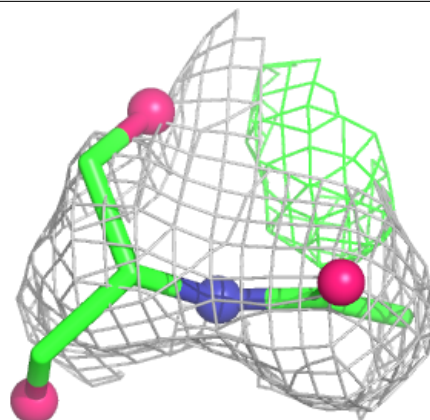
Electron density around EDO M 102:

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



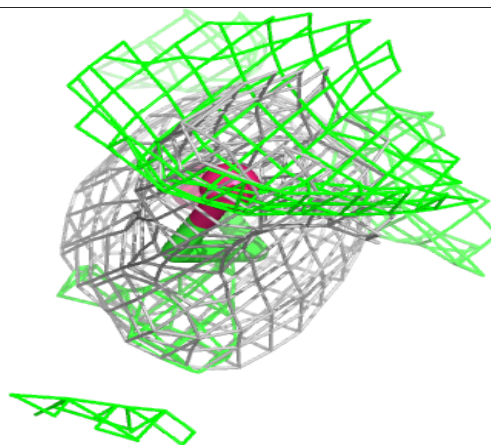
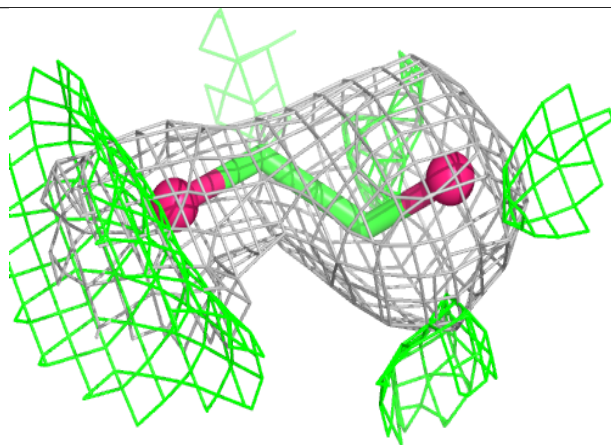
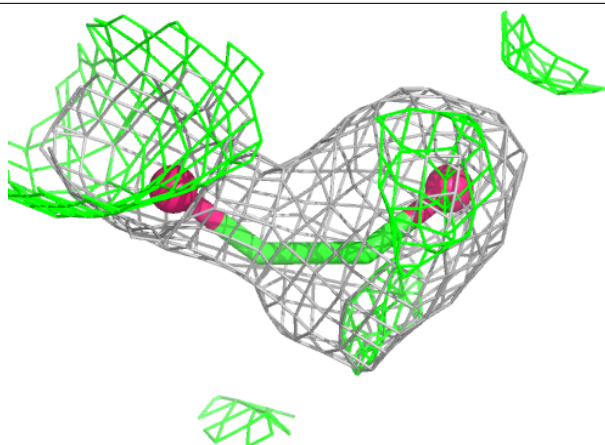
Electron density around SAC I 102:

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



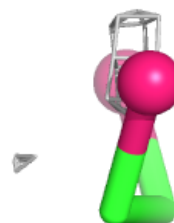
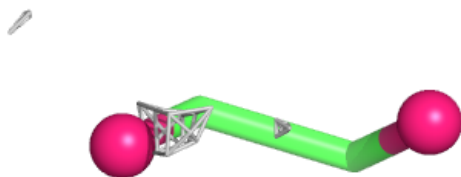
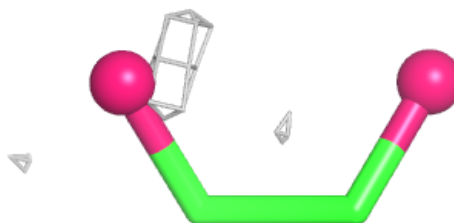
Electron density around EDO N 610:

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



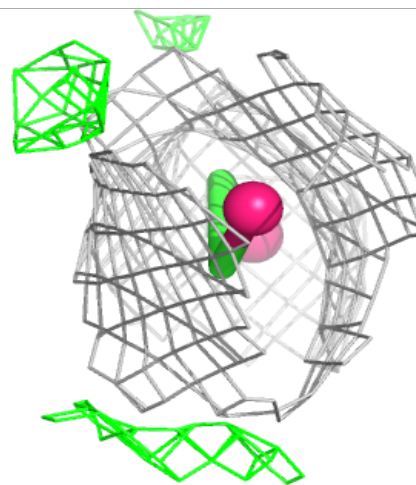
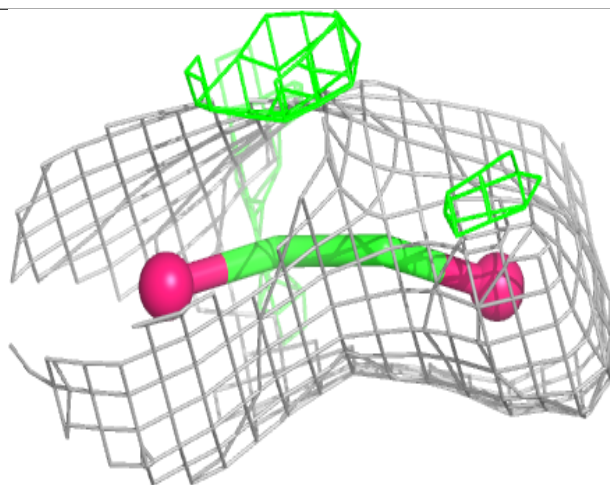
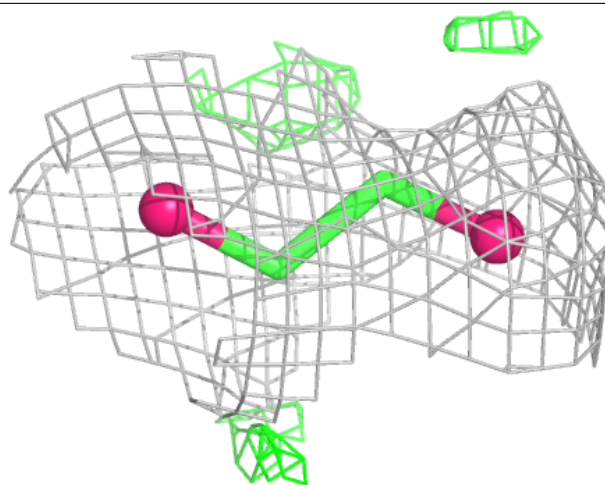
Electron density around EDO W 304:

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



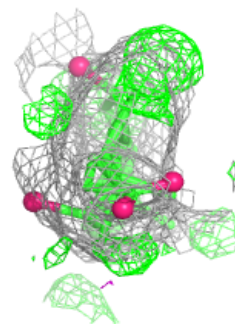
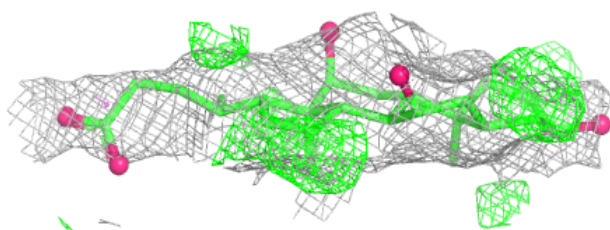
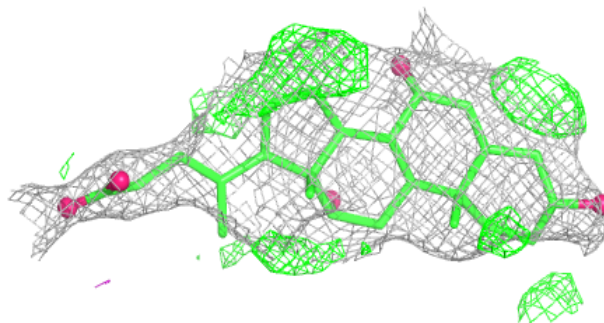
Electron density around EDO G 108:

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

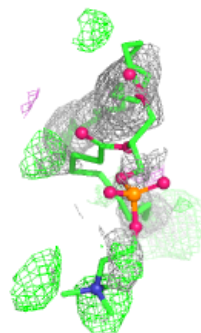
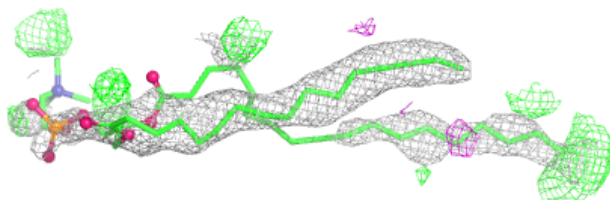
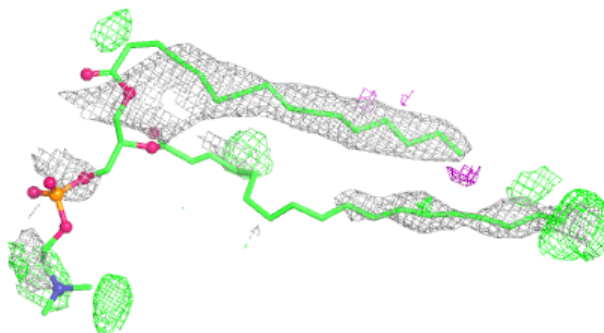


Electron density around CHD Y 101:

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

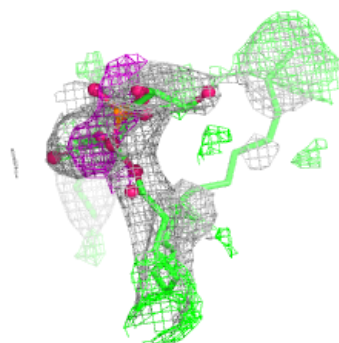
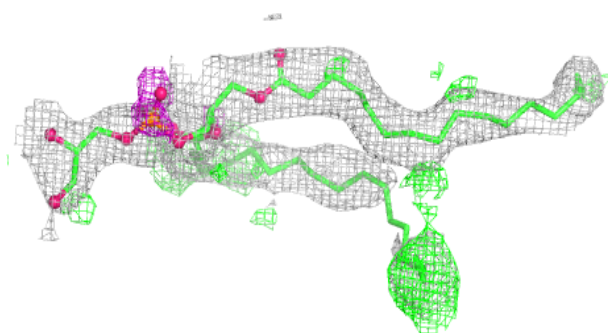
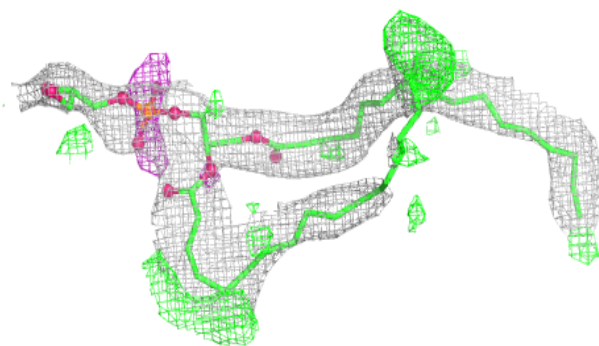
**Electron density around PSC I 101:**

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

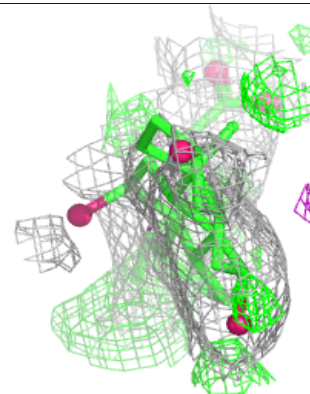
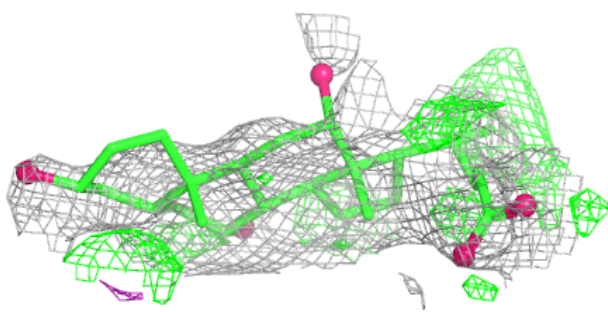


Electron density around PGV C 305:

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

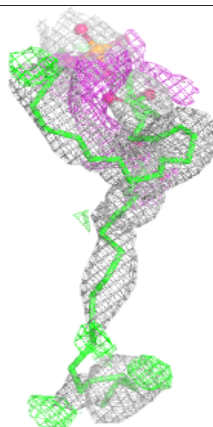
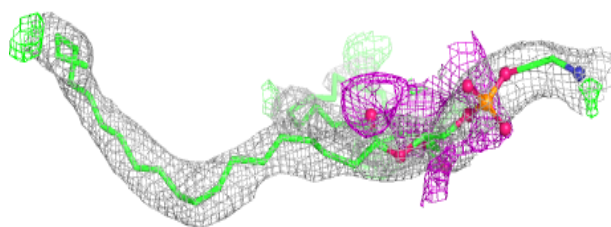
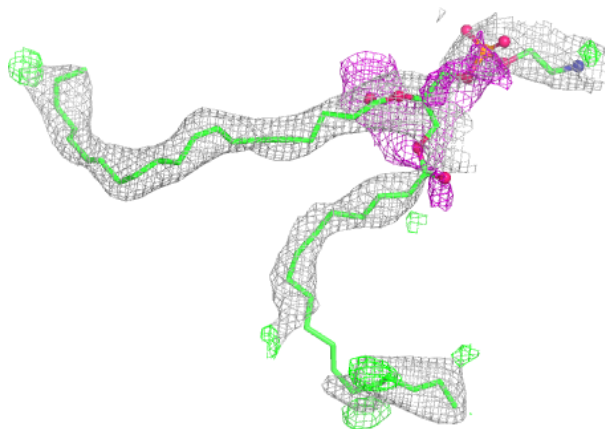
**Electron density around CHD T 105:**

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

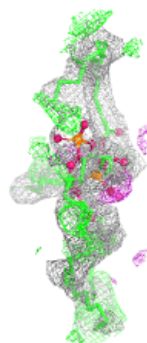
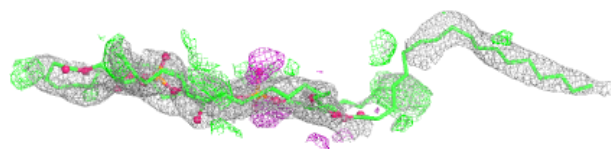
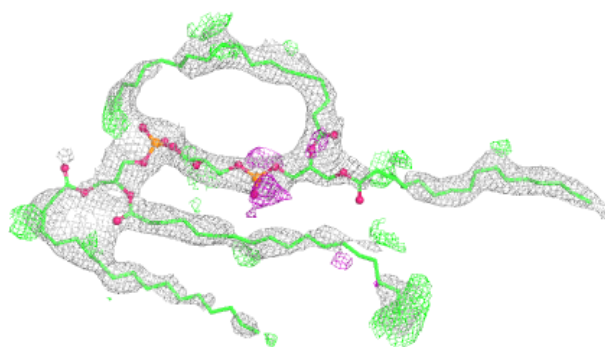


Electron density around PEK T 103:

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

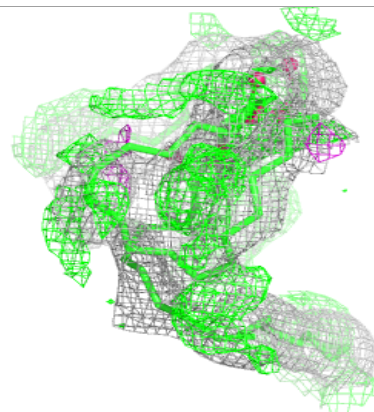
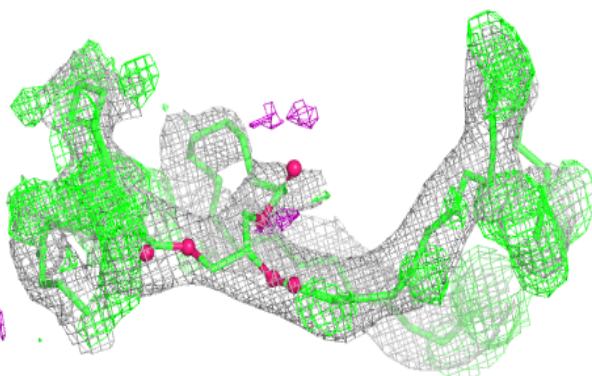
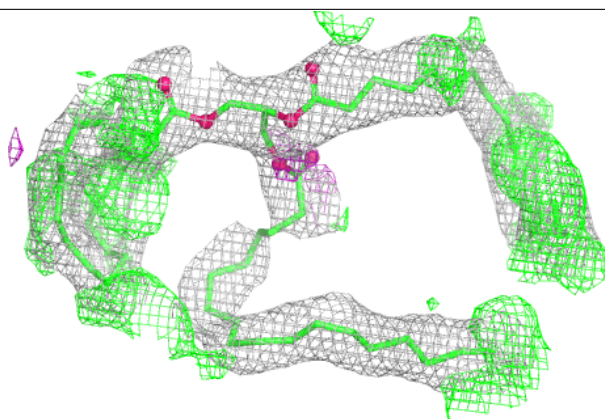
**Electron density around CDL C 313:**

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

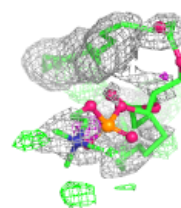
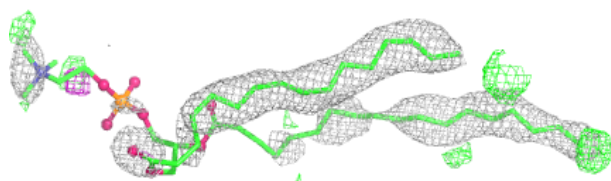
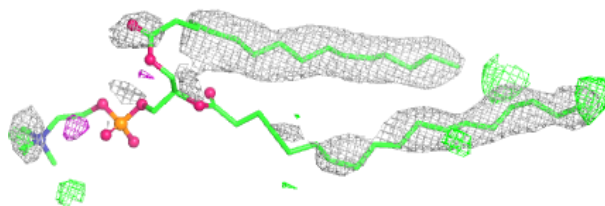


Electron density around TGL B 302:

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

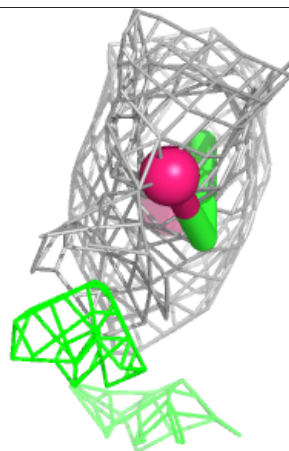
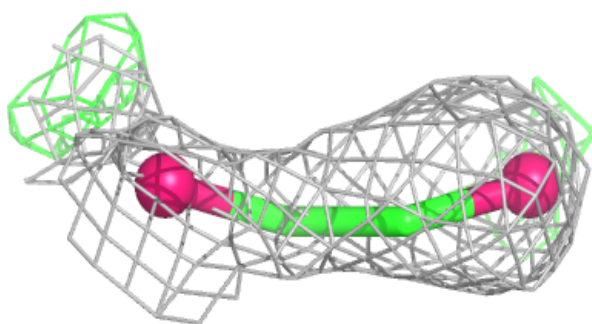
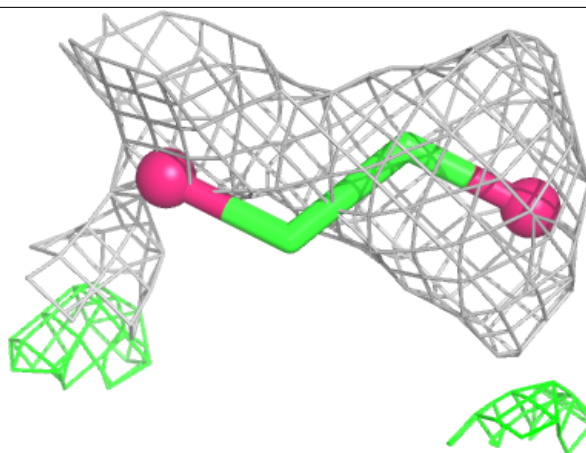
**Electron density around PSC R 201:**

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



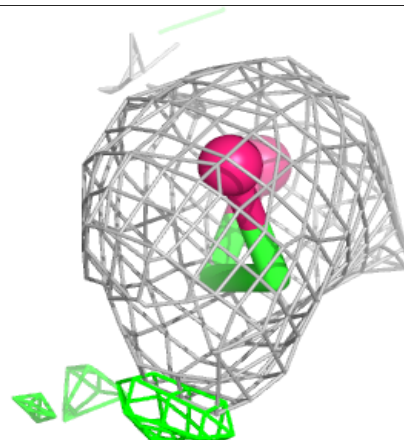
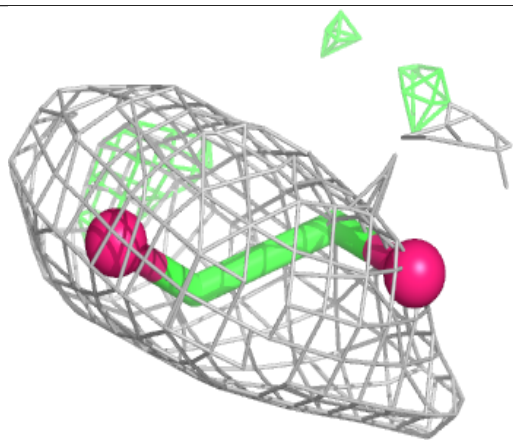
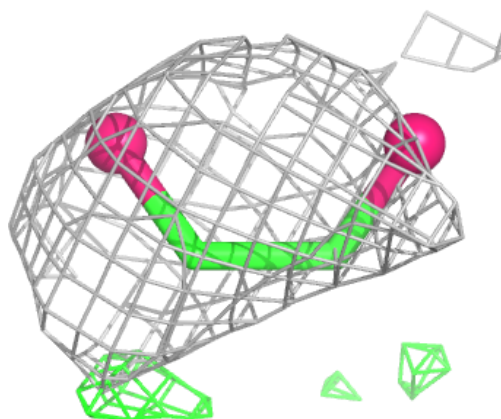
Electron density around EDO V 103:

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



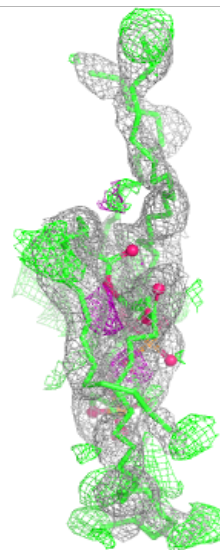
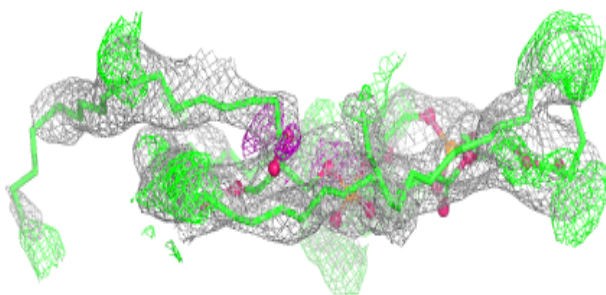
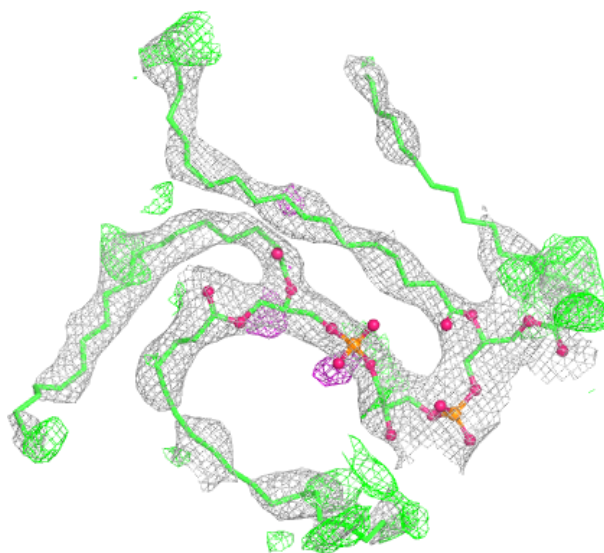
Electron density around EDO K 901:

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



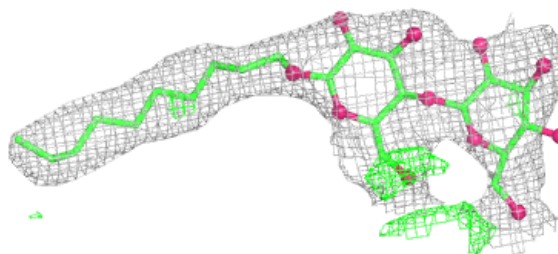
Electron density around CDL P 313:

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

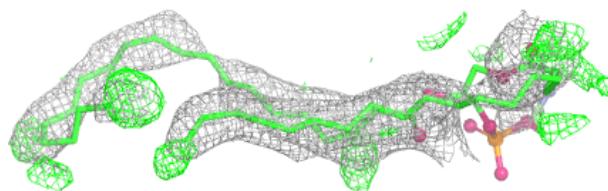
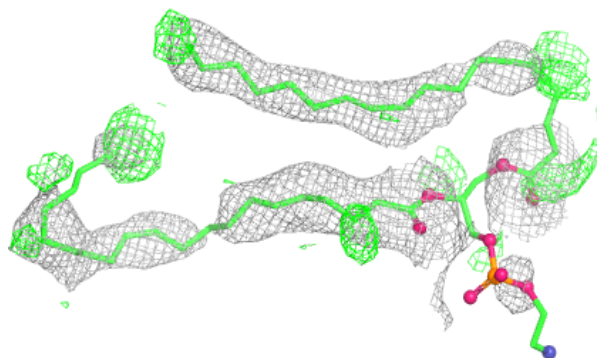


Electron density around DMU C 314:

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

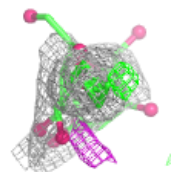
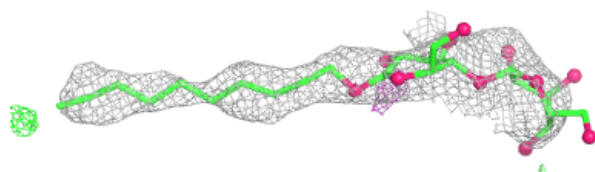
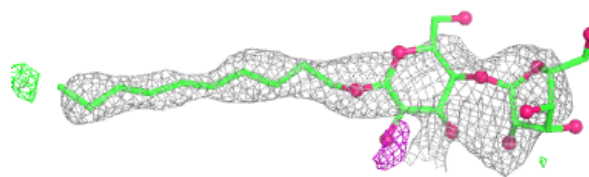
**Electron density around PEK C 303:**

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

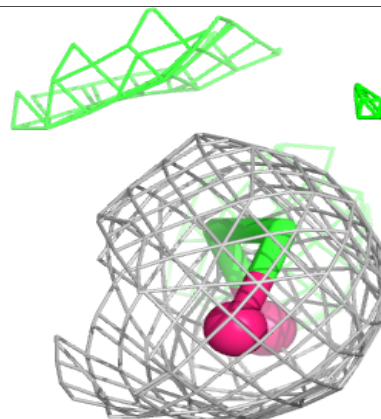
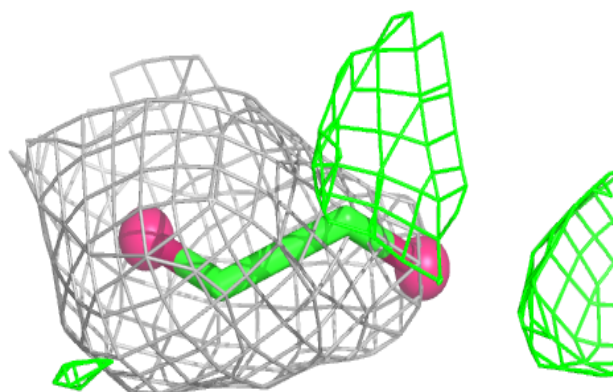
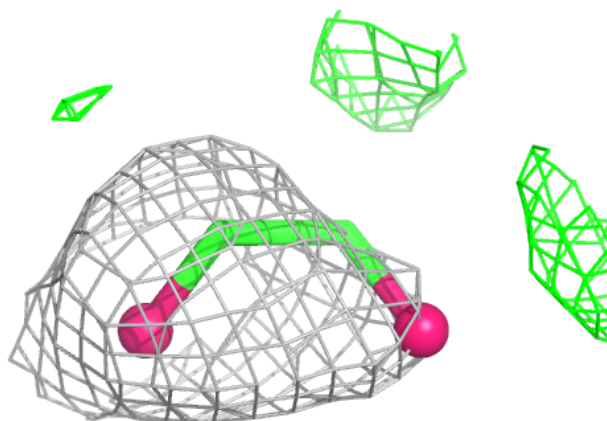


Electron density around DMU C 301:

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

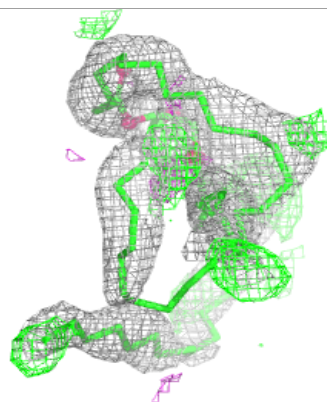
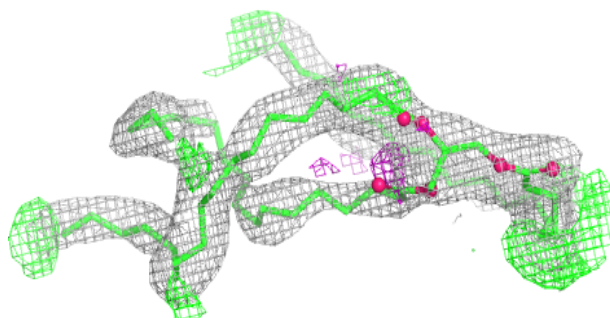
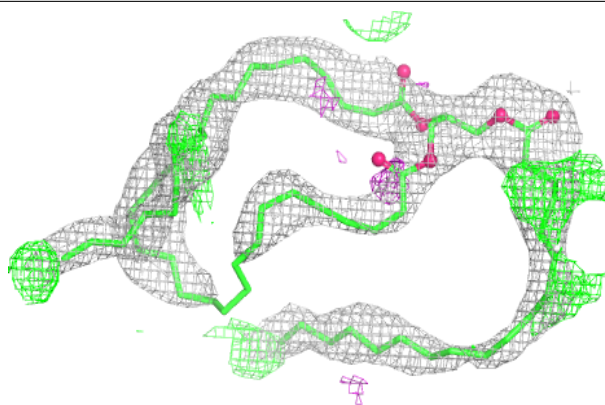
**Electron density around EDO O 302:**

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

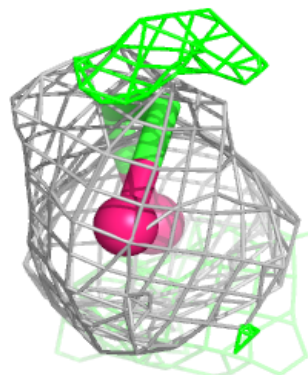
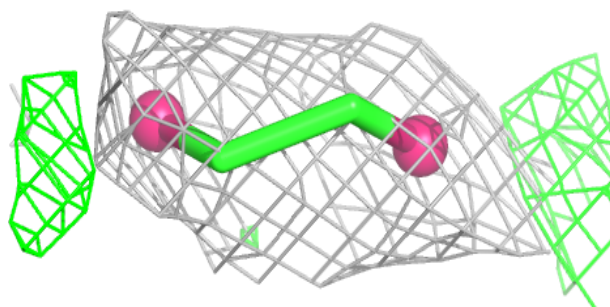
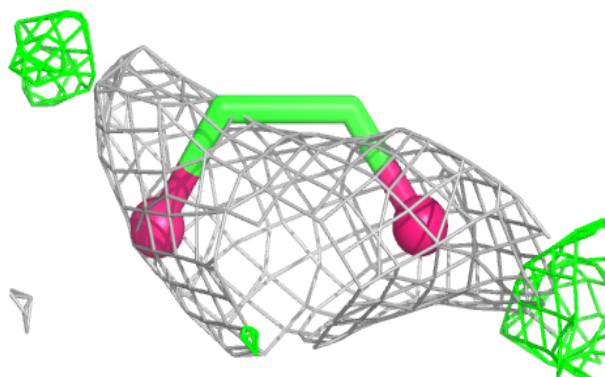


Electron density around TGL N 604:

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

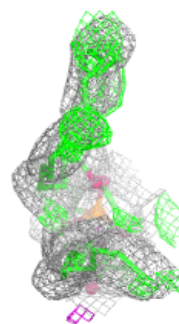
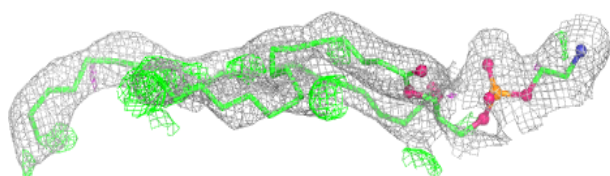
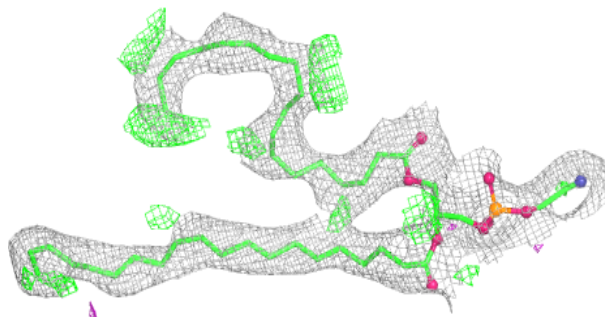
**Electron density around EDO L 103:**

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



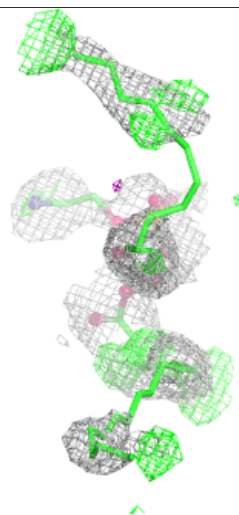
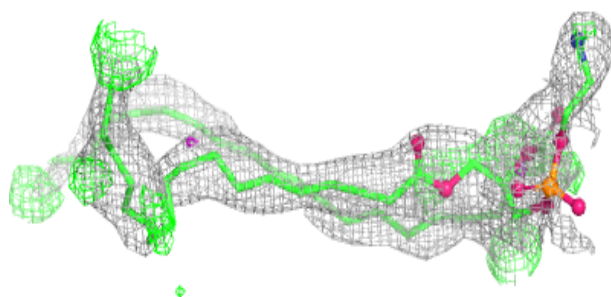
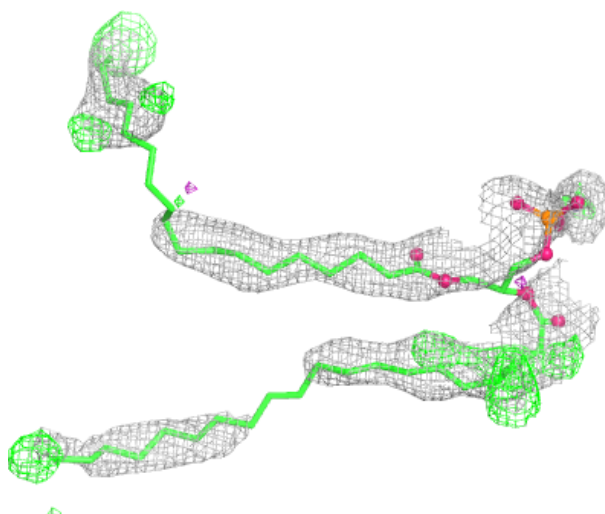
Electron density around PEK P 301:

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



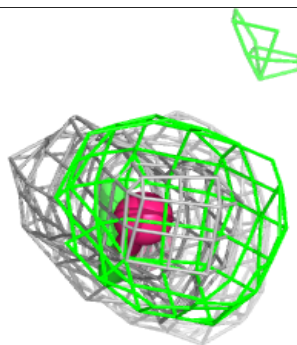
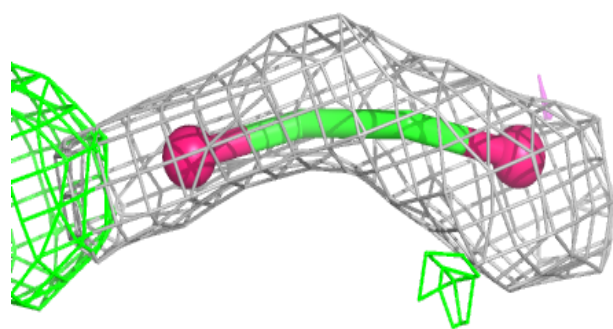
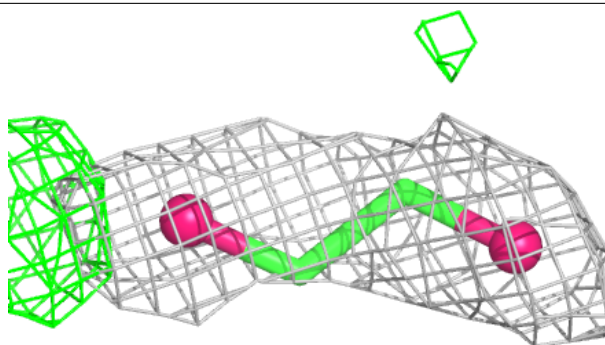
Electron density around PEK P 305:

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



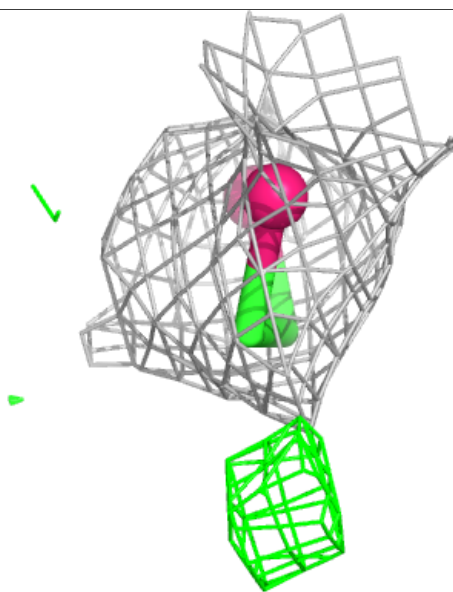
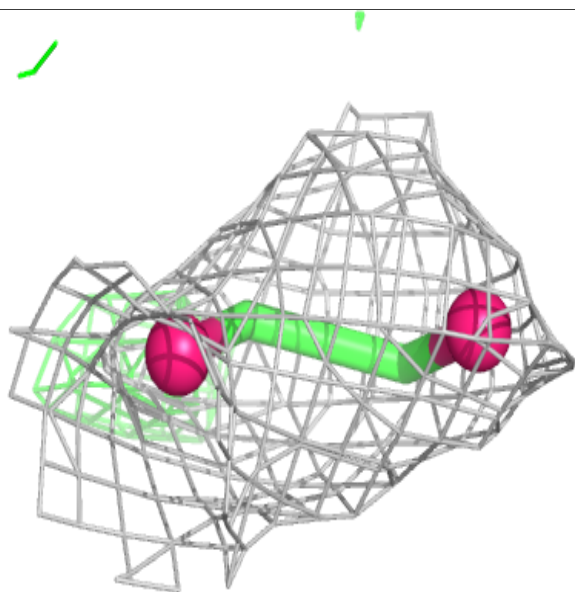
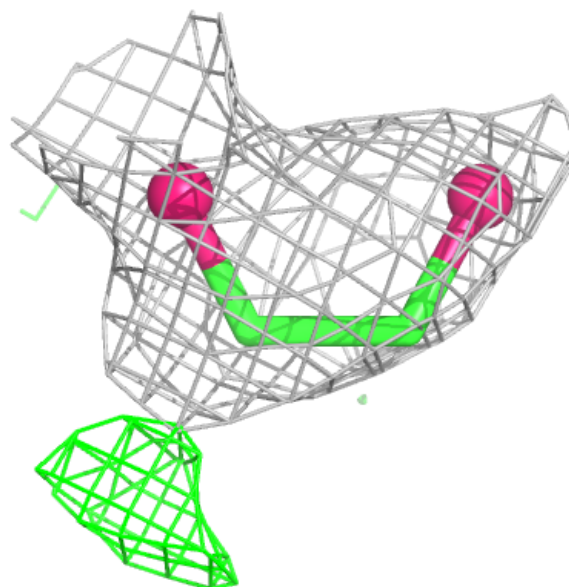
Electron density around EDO N 613:

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



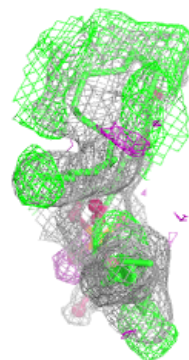
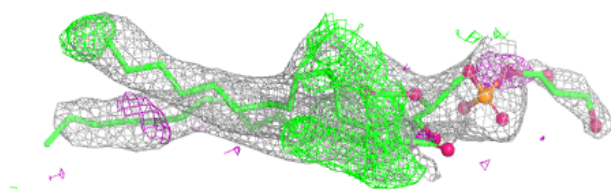
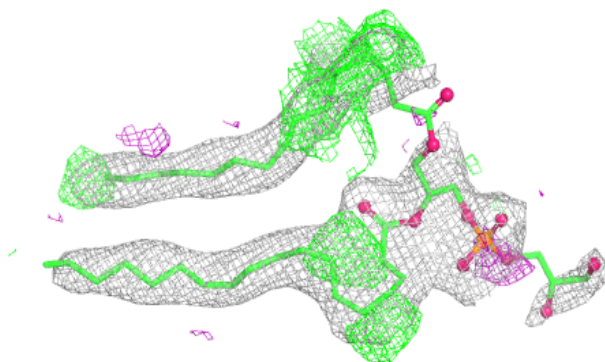
Electron density around EDO E 205:

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

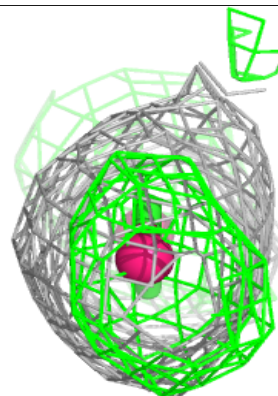
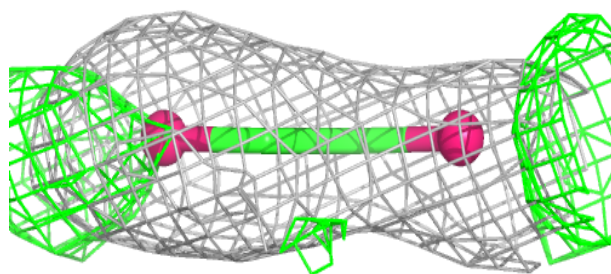
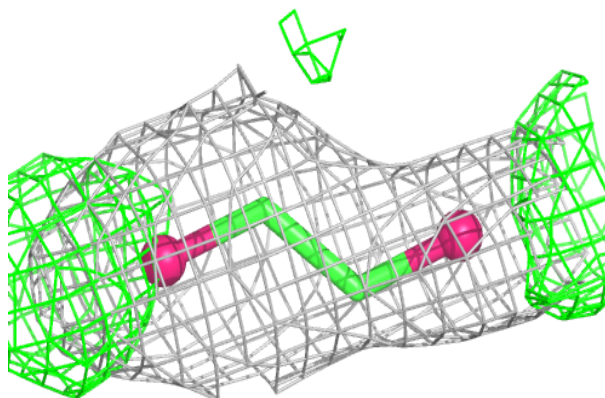


Electron density around PGV A 604:

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

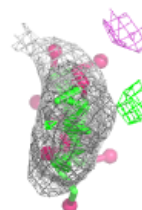
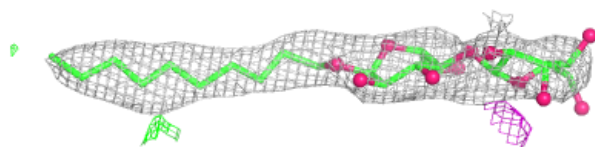
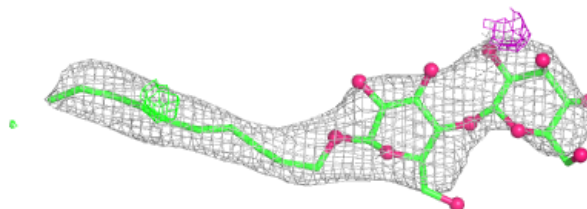
**Electron density around EDO C 315:**

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

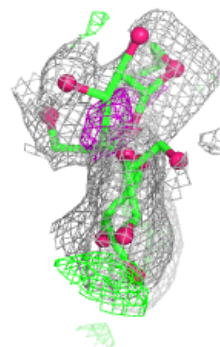
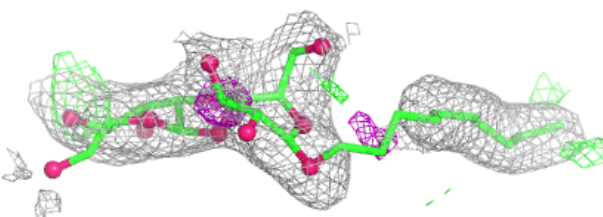
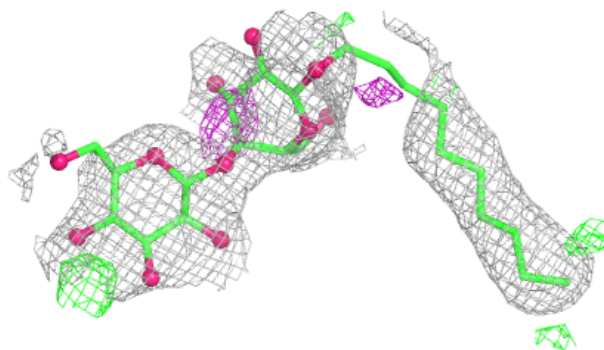


Electron density around DMU P 303:

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

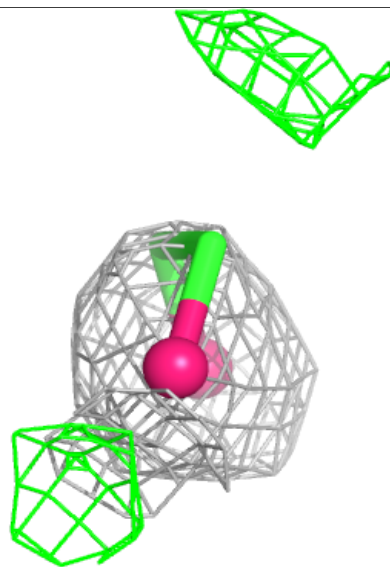
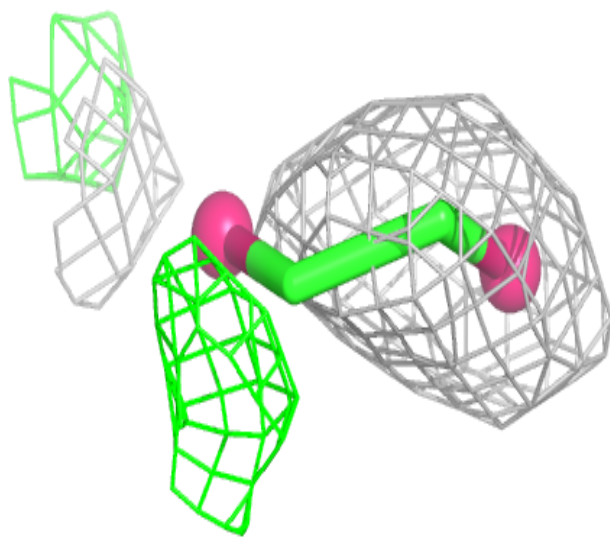
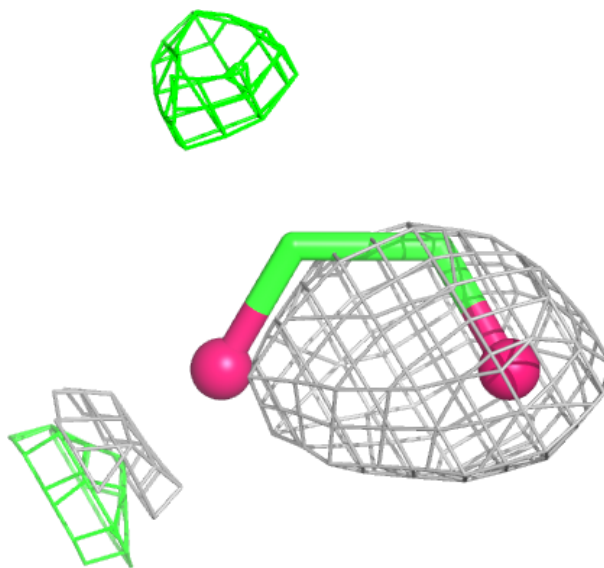
**Electron density around DMU G 103:**

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



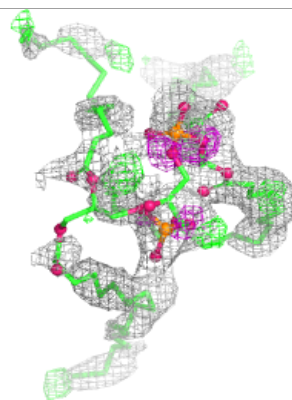
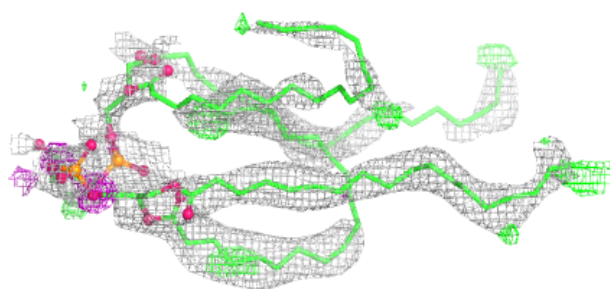
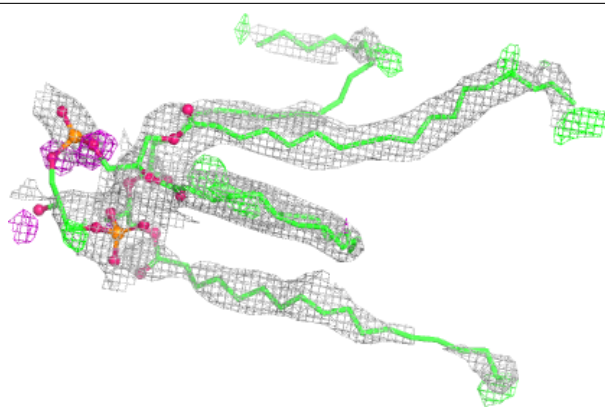
Electron density around EDO N 617:

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

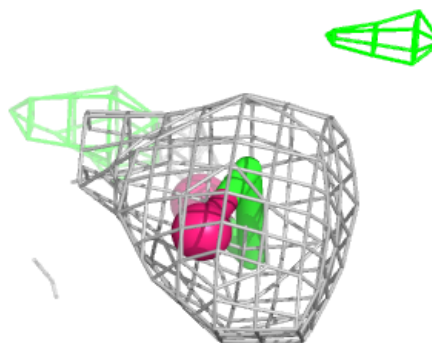
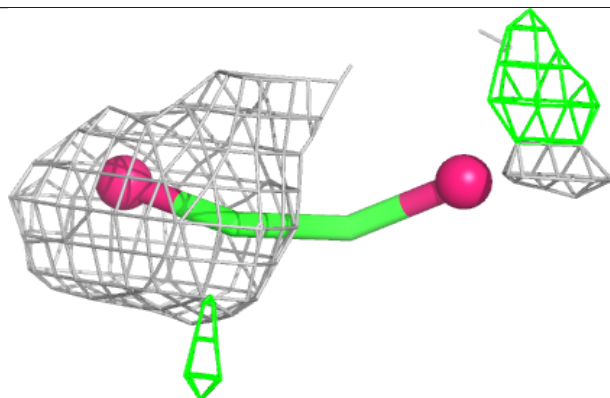
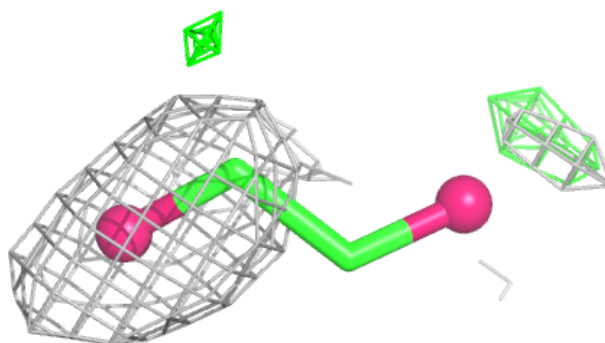


Electron density around CDL P 308:

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

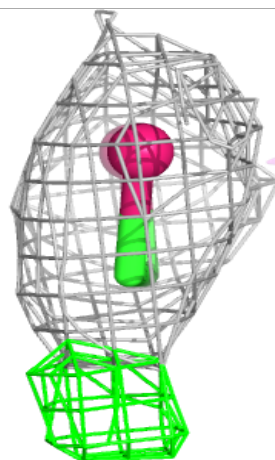
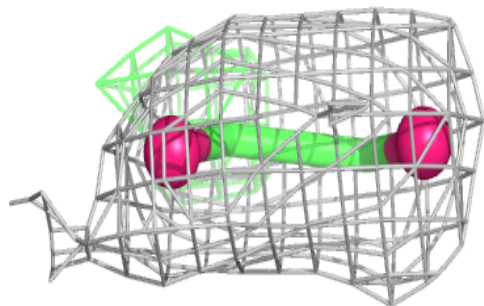
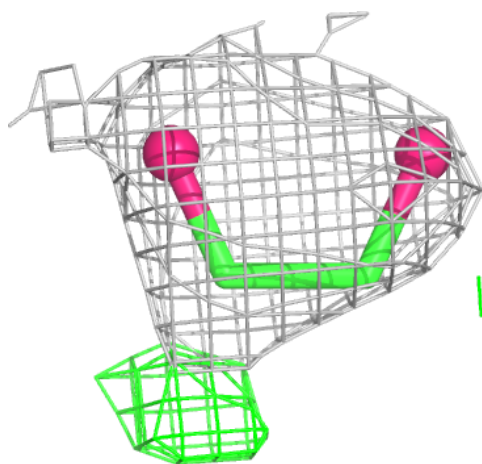
**Electron density around EDO D 204:**

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



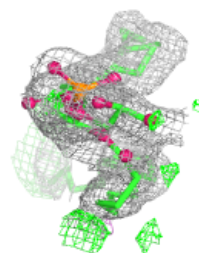
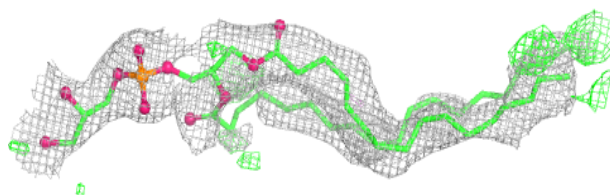
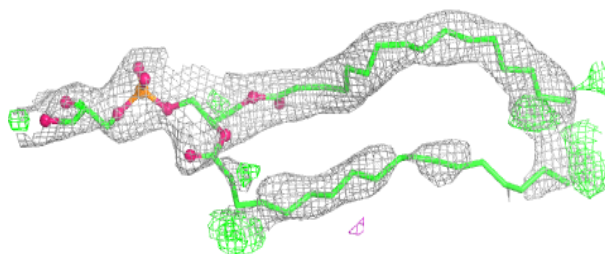
Electron density around EDO B 307:

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

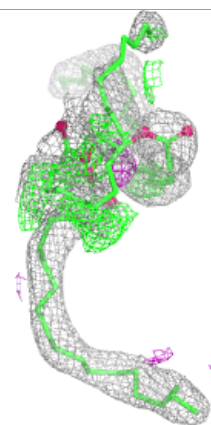
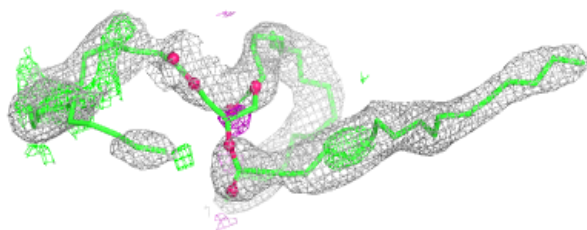
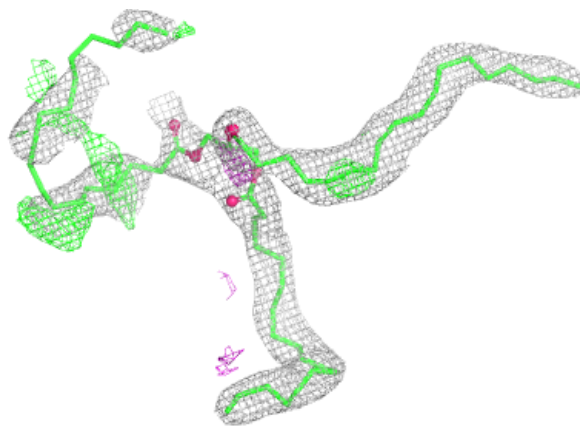


Electron density around PGV P 307:

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

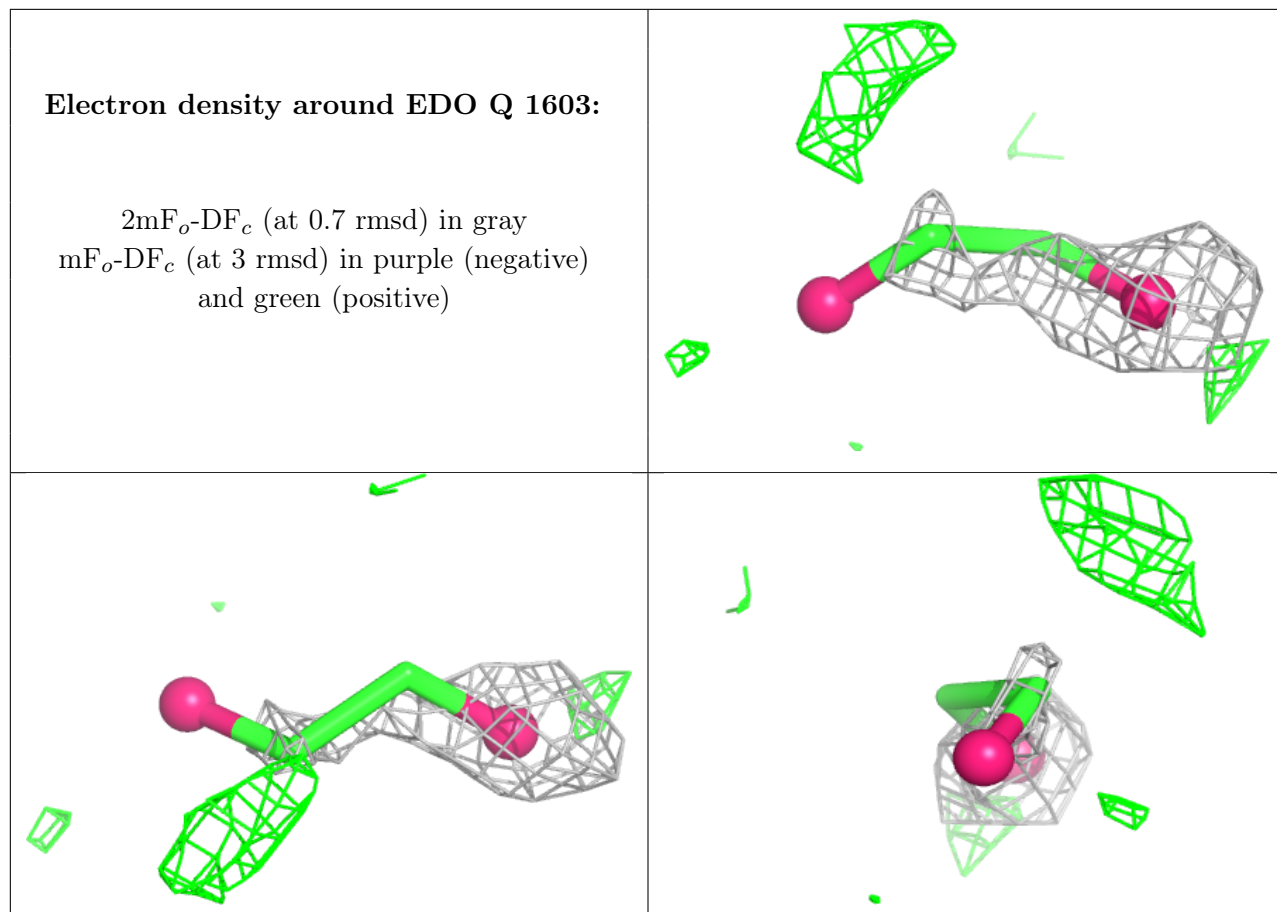
**Electron density around TGL N 605:**

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



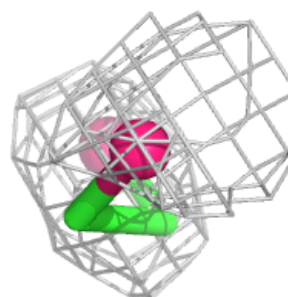
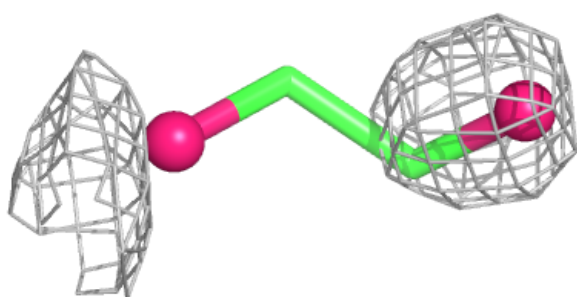
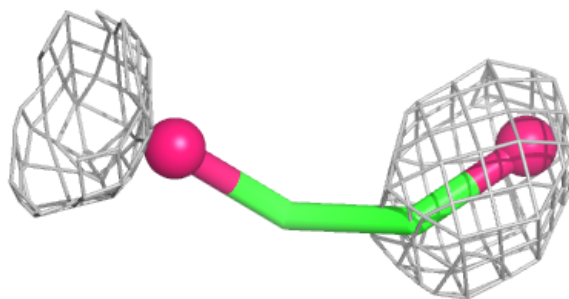
Electron density around EDO Q 1603:

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



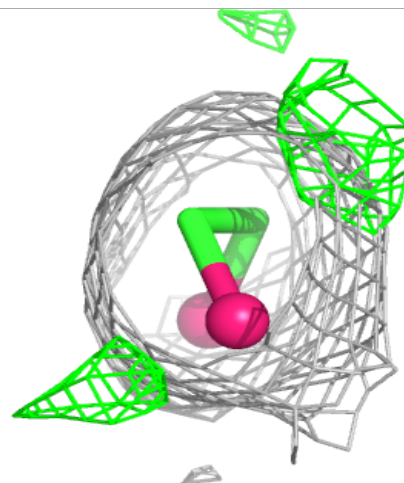
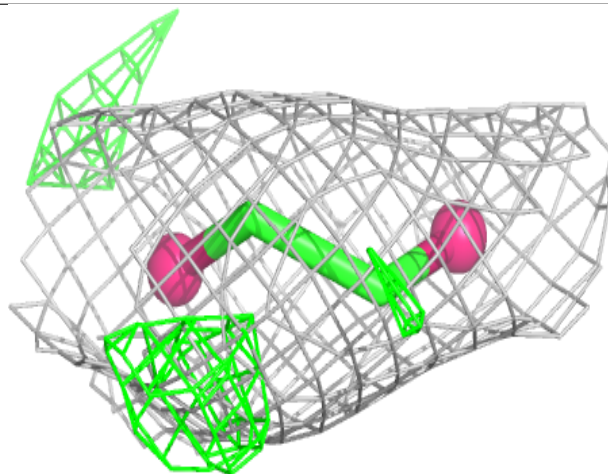
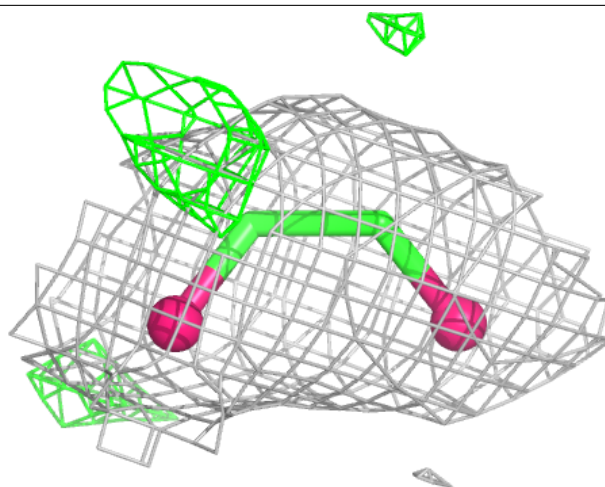
Electron density around EDO S 2504:

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



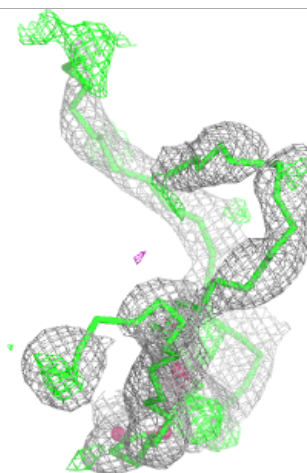
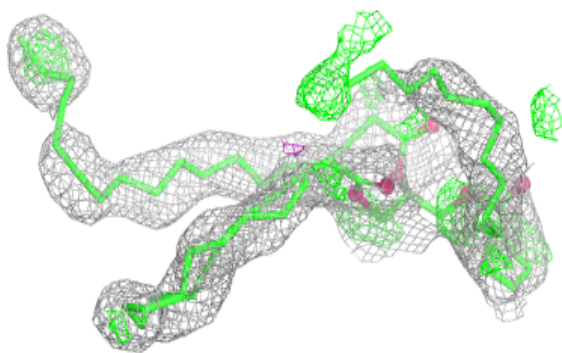
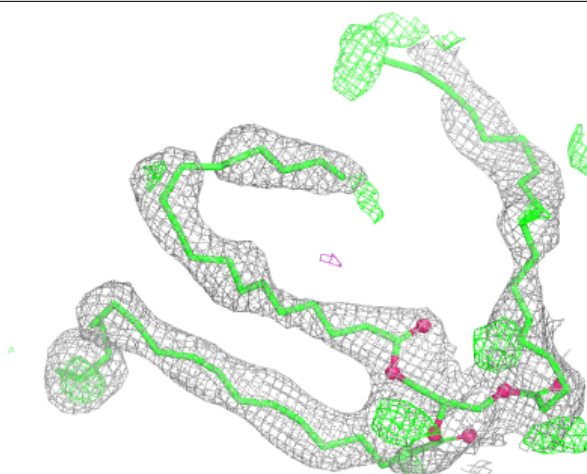
Electron density around EDO D 202:

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



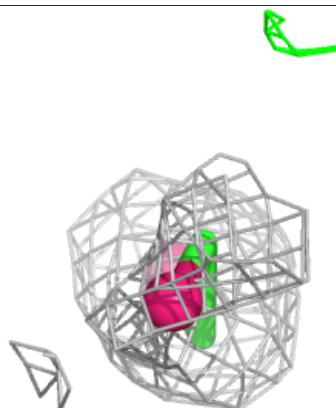
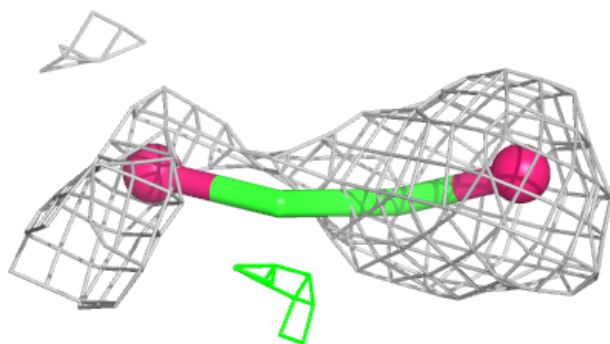
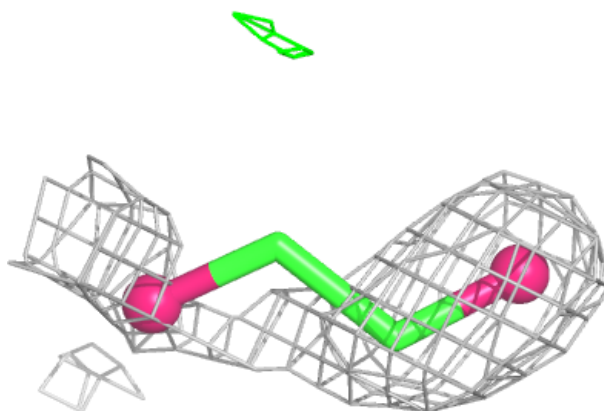
Electron density around TGL D 201:

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

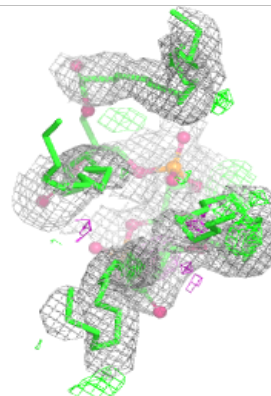
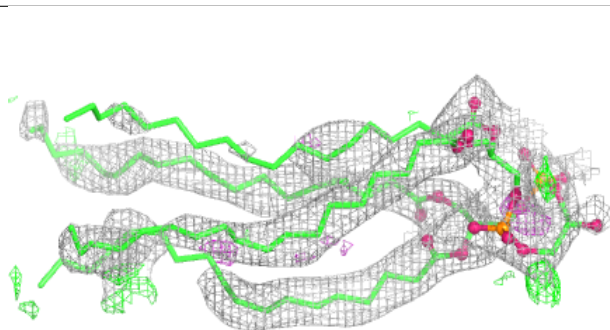
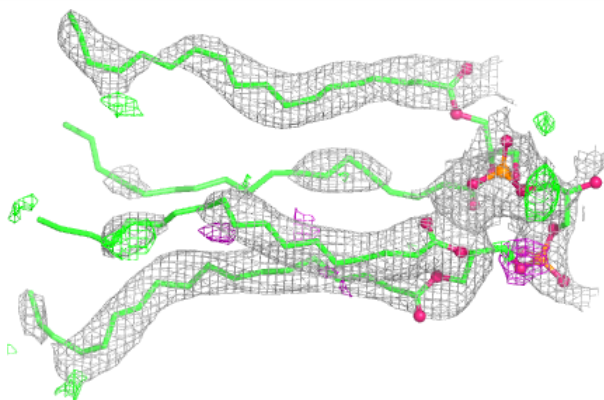


Electron density around EDO A 617:

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

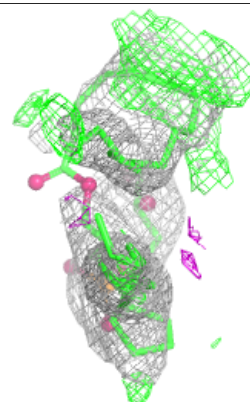
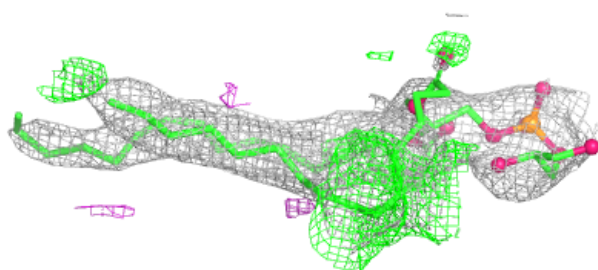
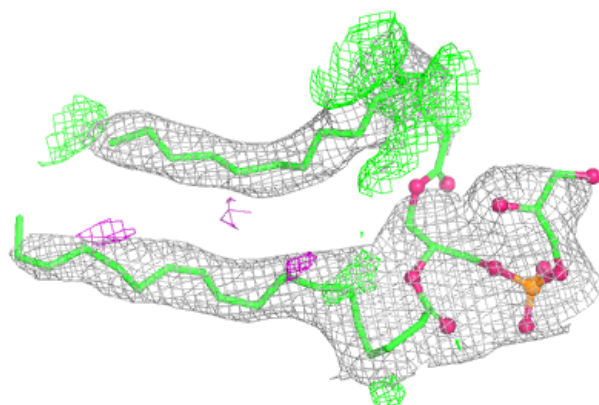
**Electron density around CDL C 306:**

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

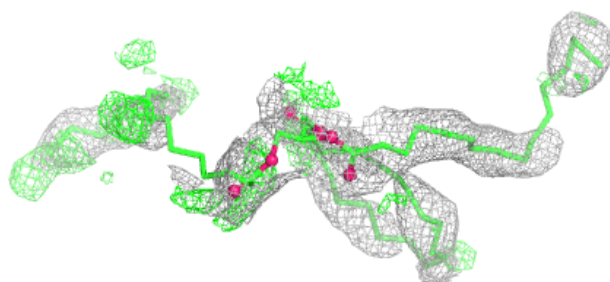
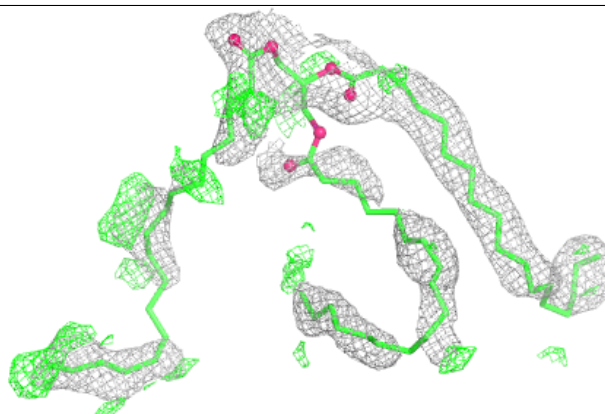


Electron density around PGV N 620:

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

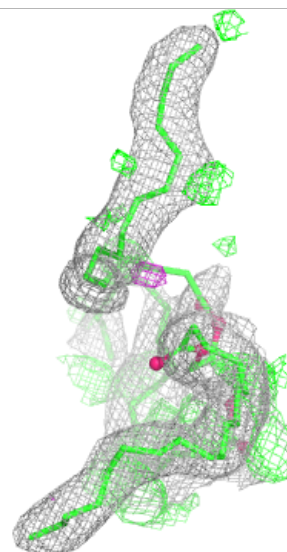
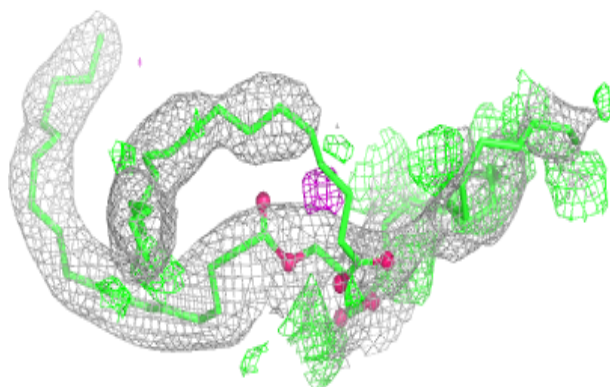
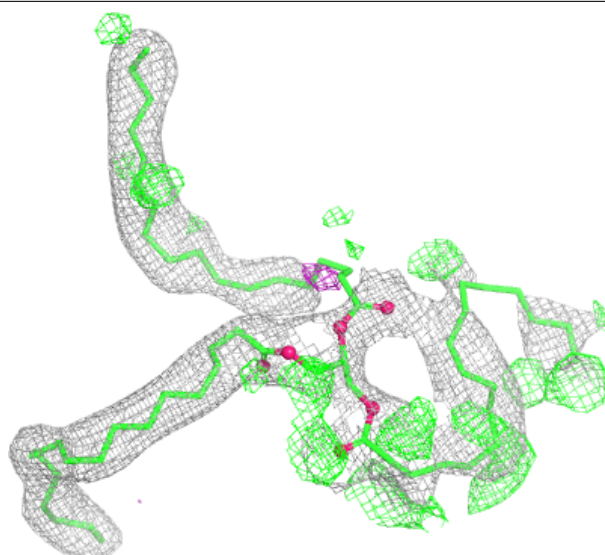
**Electron density around TGL N 616:**

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



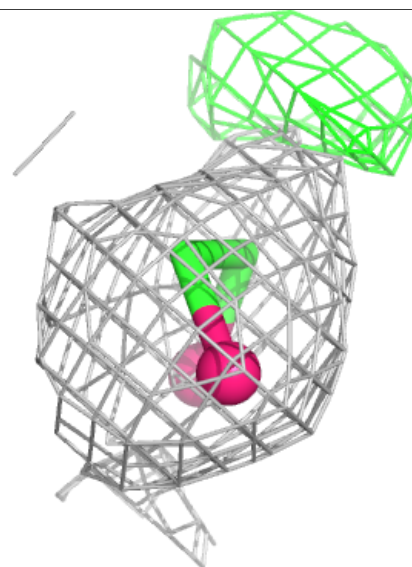
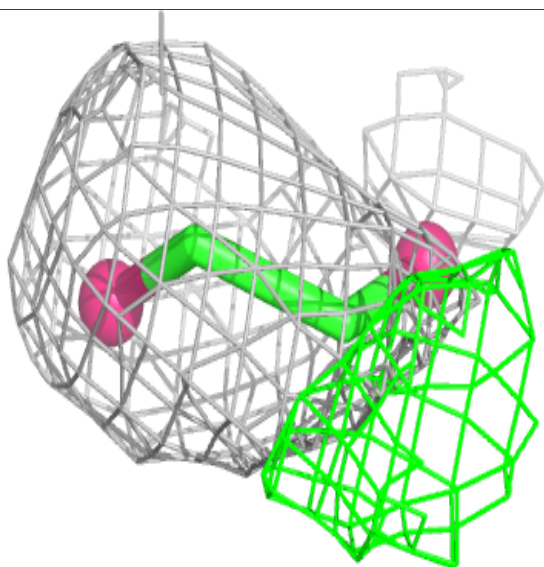
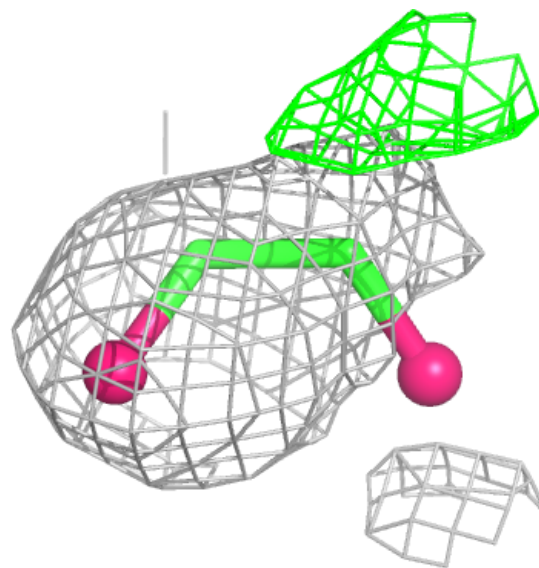
Electron density around TGL L 101:

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



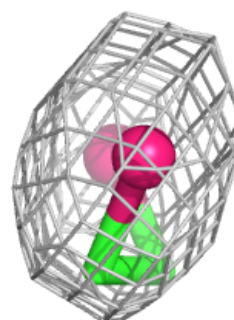
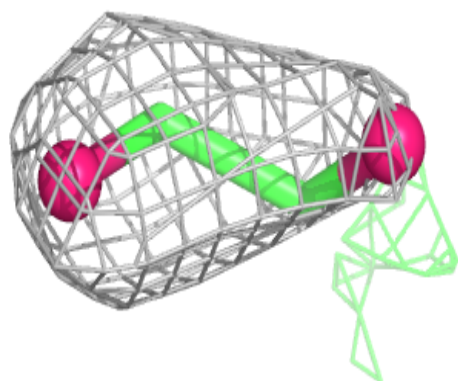
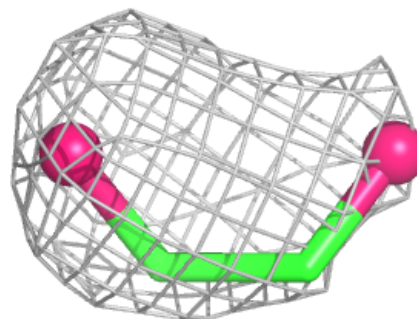
Electron density around EDO A 615:

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



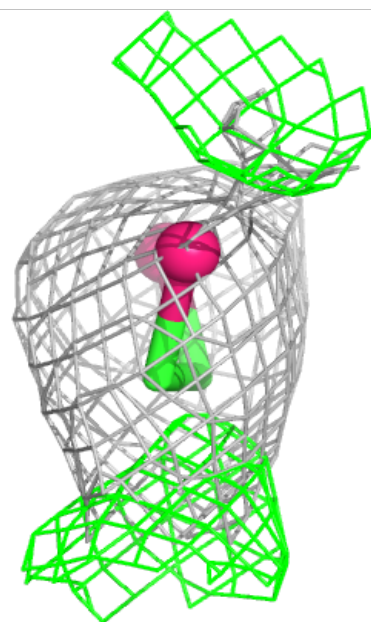
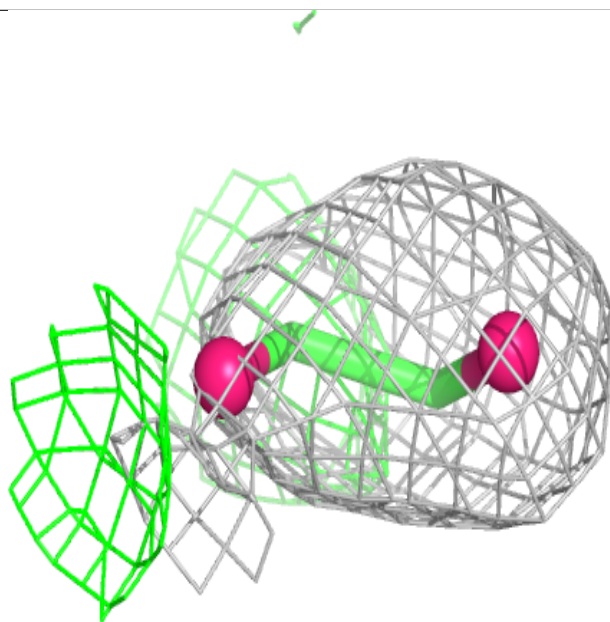
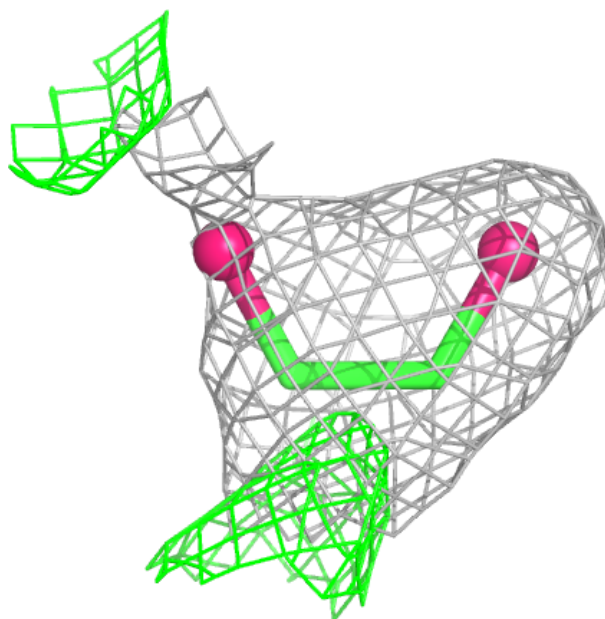
Electron density around EDO P 311:

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



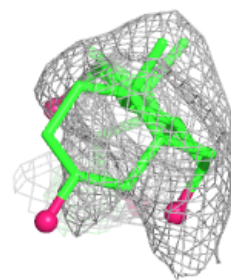
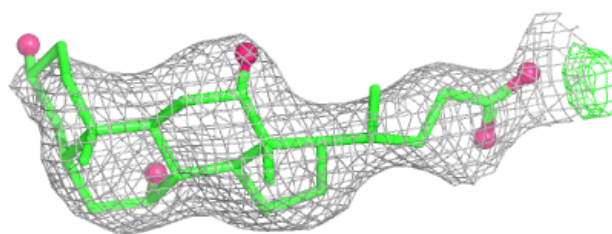
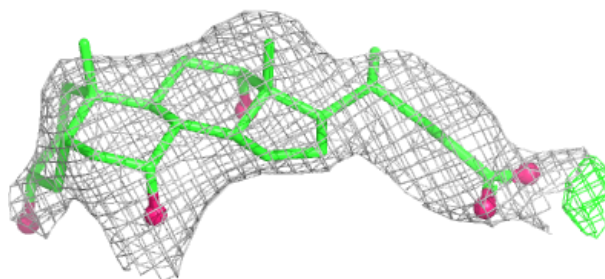
Electron density around EDO A 610:

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



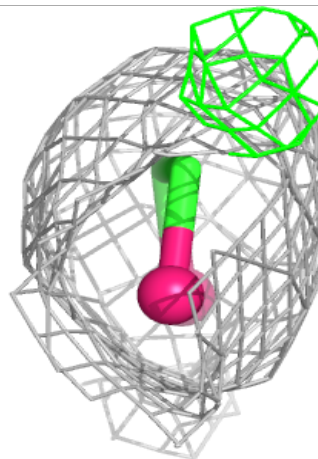
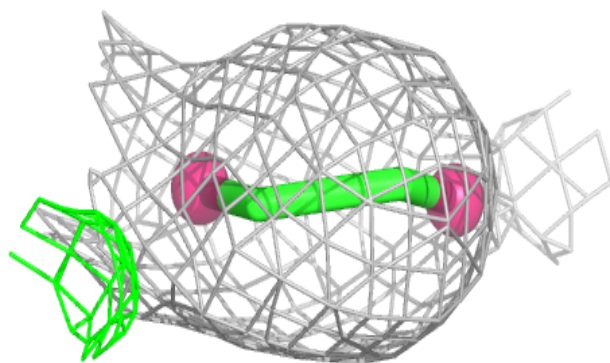
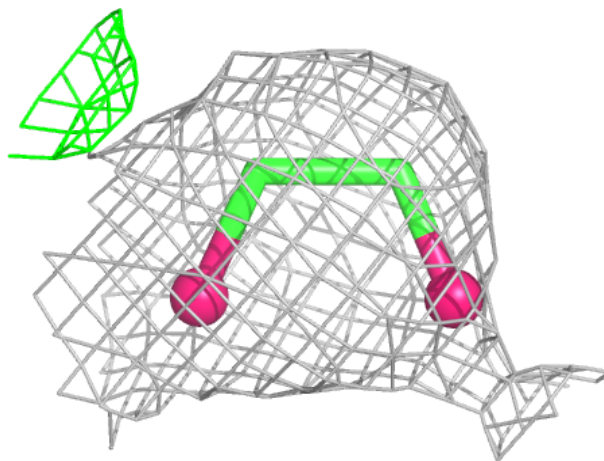
Electron density around CHD W 302:

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



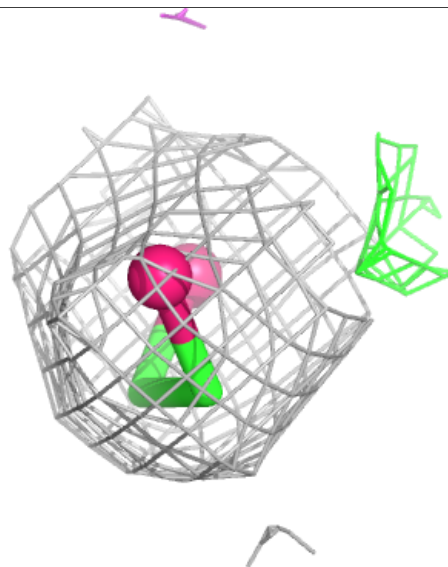
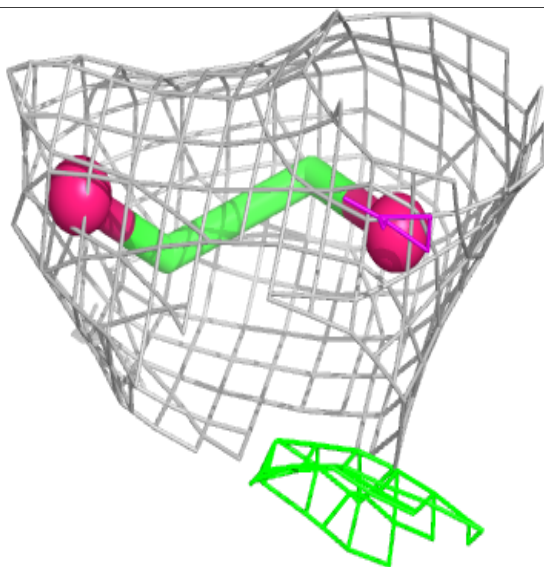
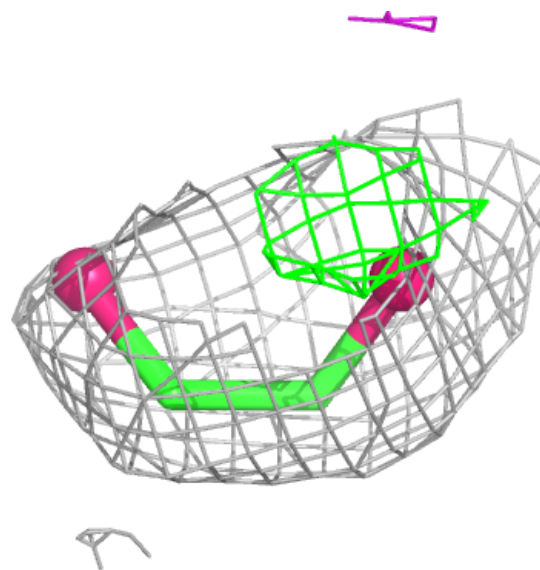
Electron density around EDO M 103:

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



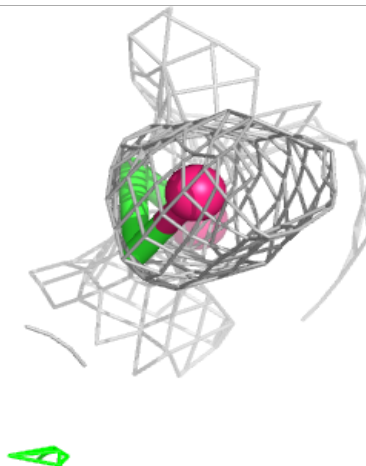
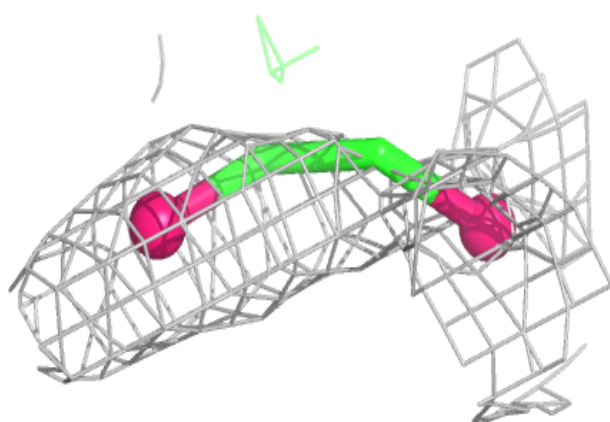
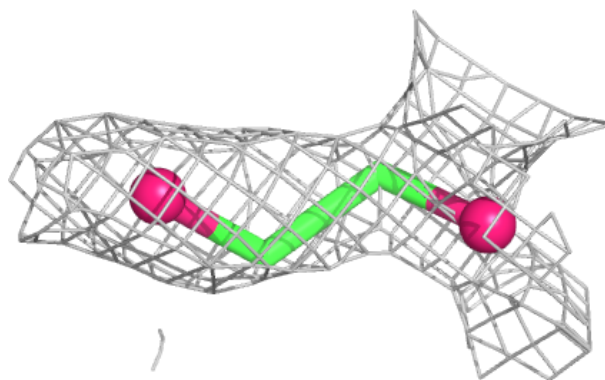
Electron density around EDO I 103:

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



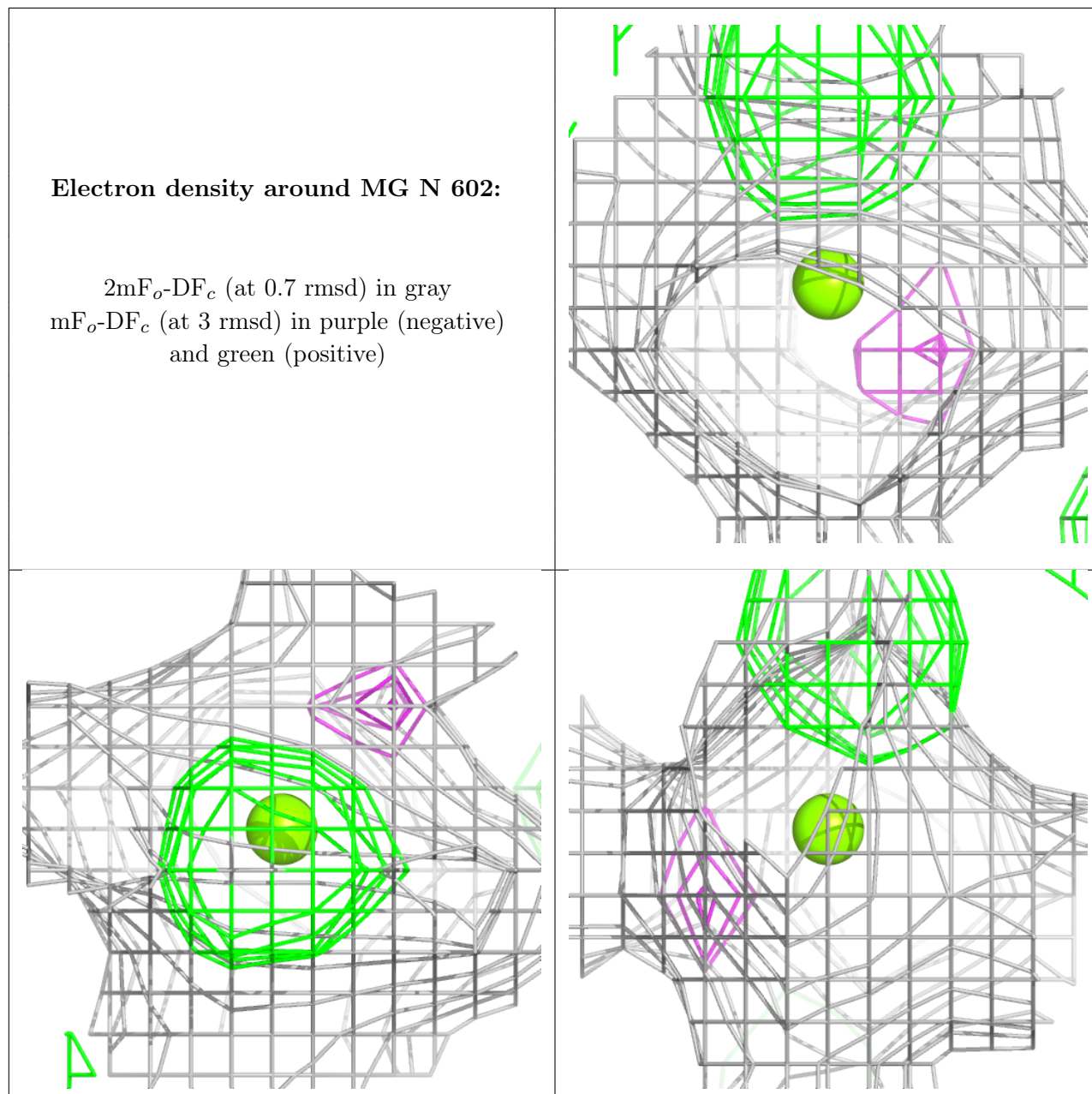
Electron density around EDO S 2508:

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



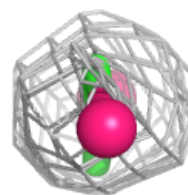
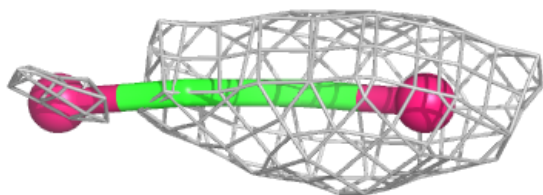
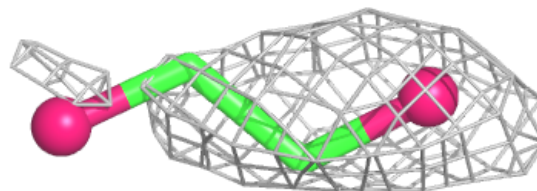
Electron density around MG N 602:

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

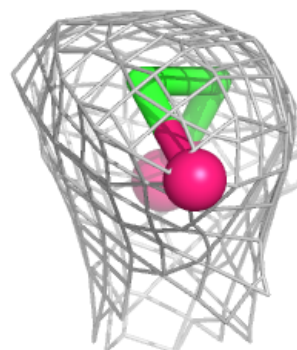
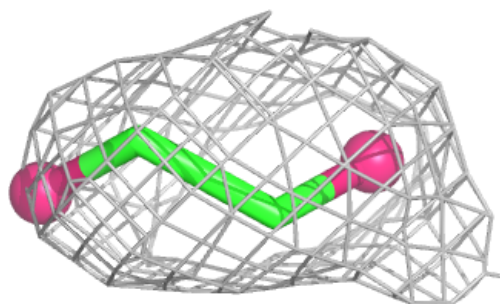
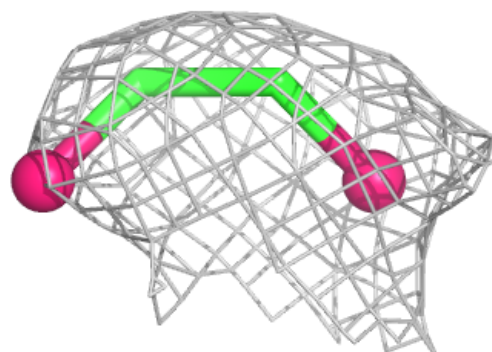


Electron density around EDO W 303:

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

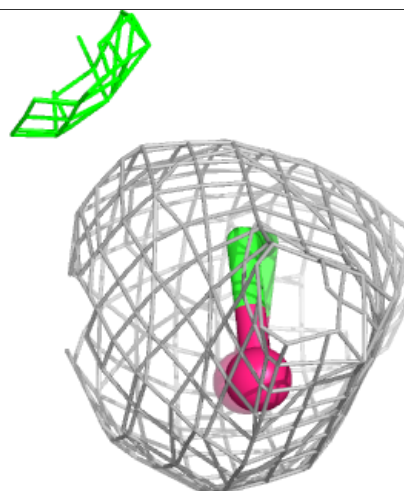
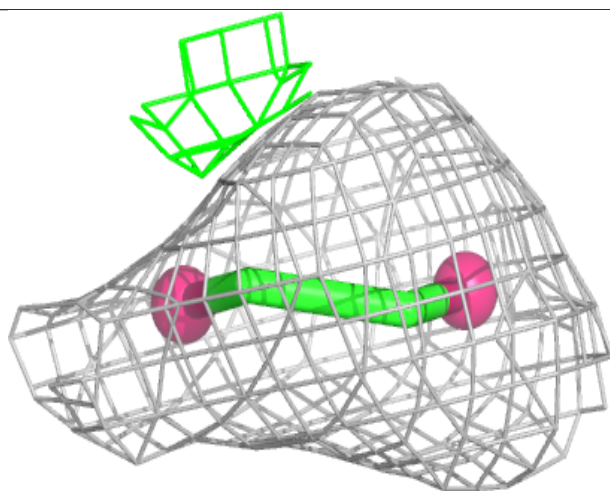
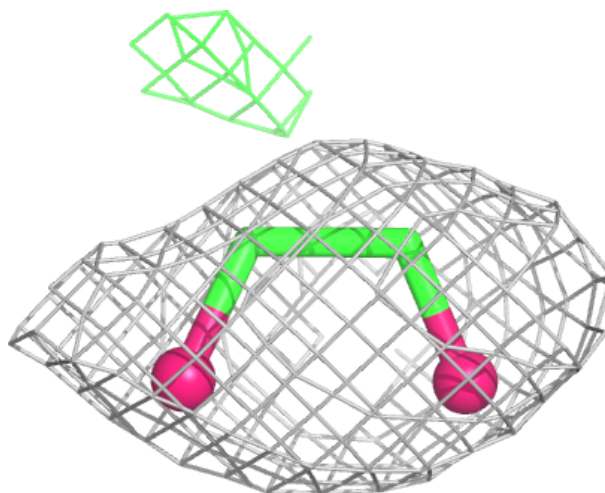
**Electron density around EDO R 203:**

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



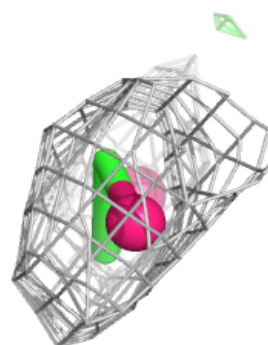
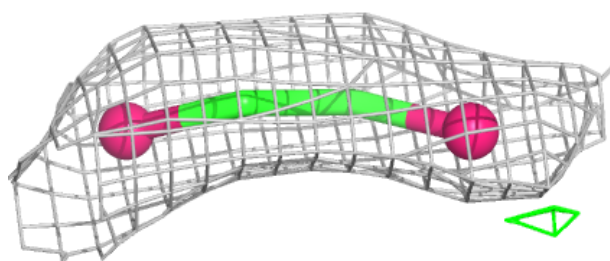
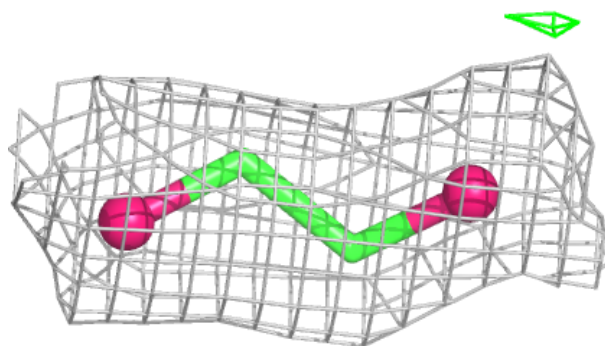
Electron density around EDO B 306:

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

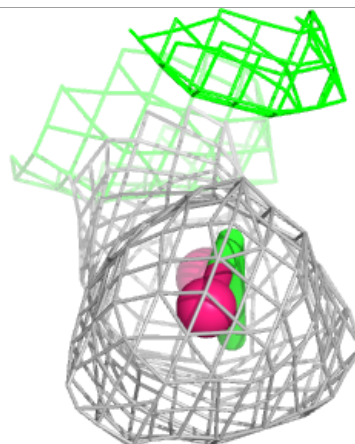
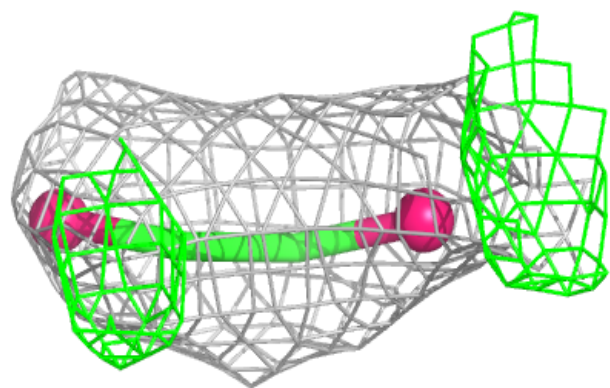
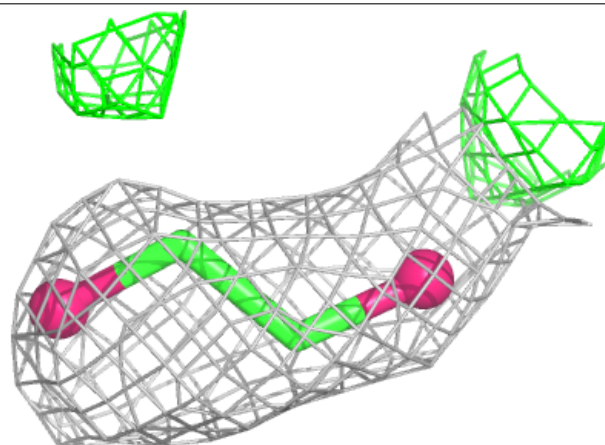


Electron density around EDO A 611:

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

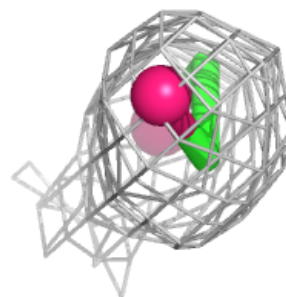
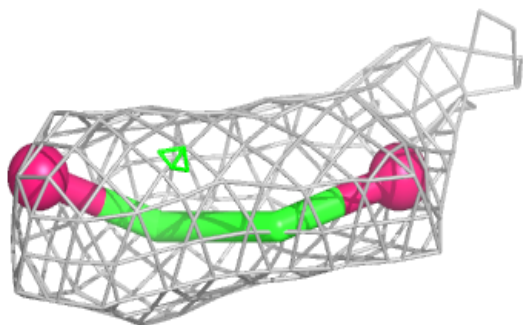
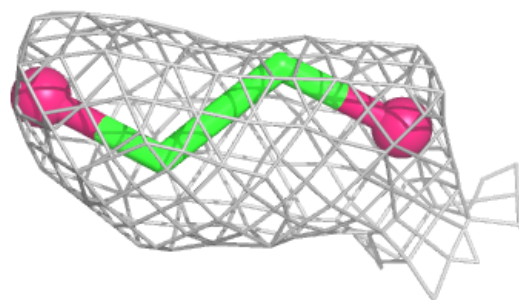
**Electron density around EDO E 204:**

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



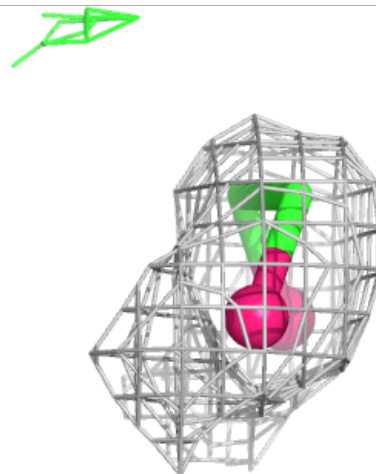
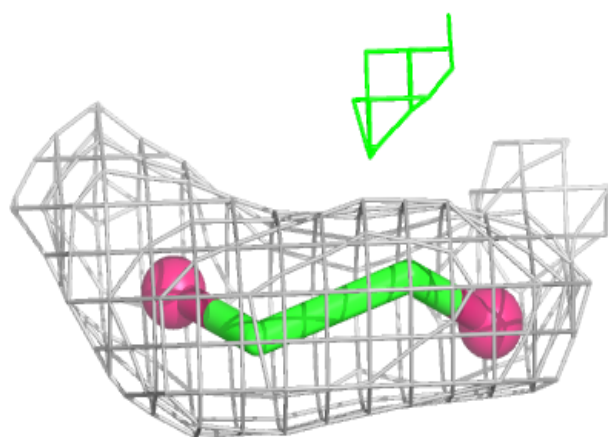
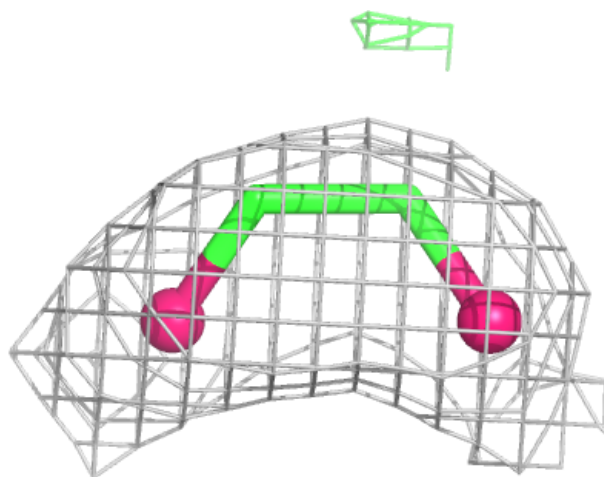
Electron density around EDO V 102:

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



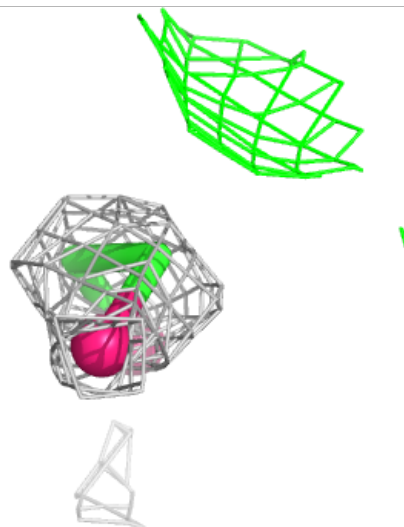
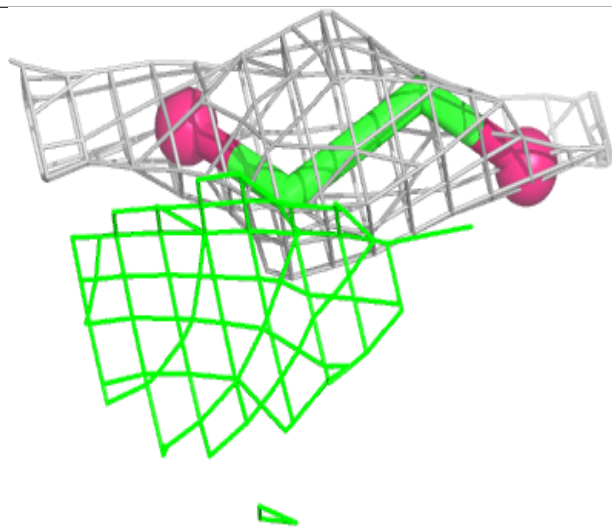
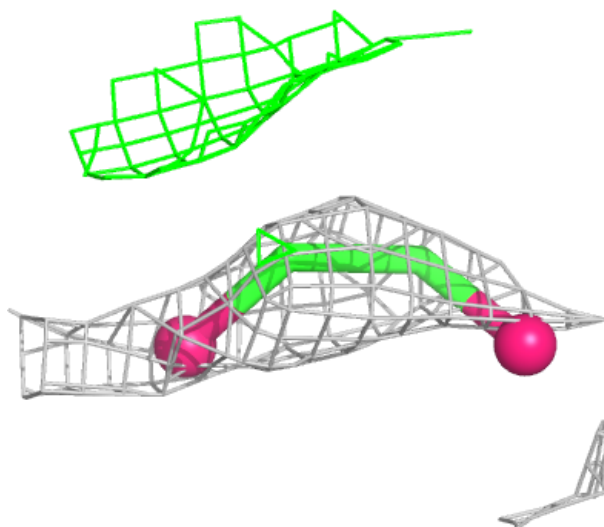
Electron density around EDO B 308:

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



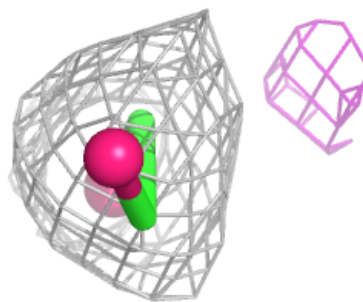
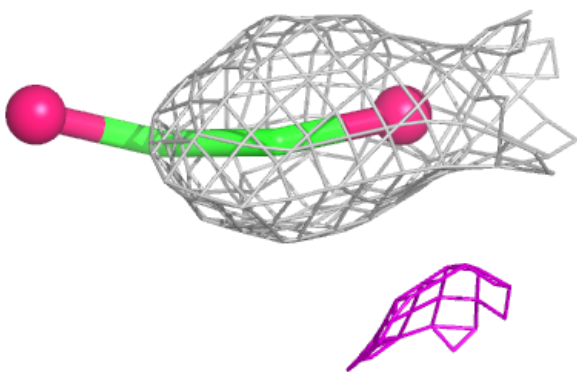
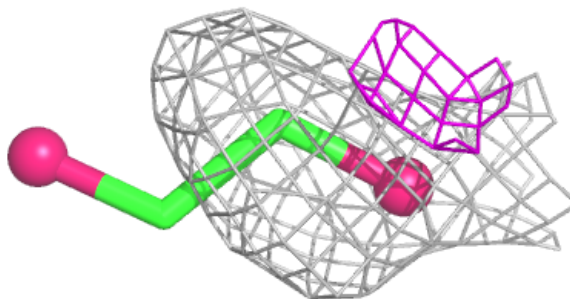
Electron density around EDO P 302:

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



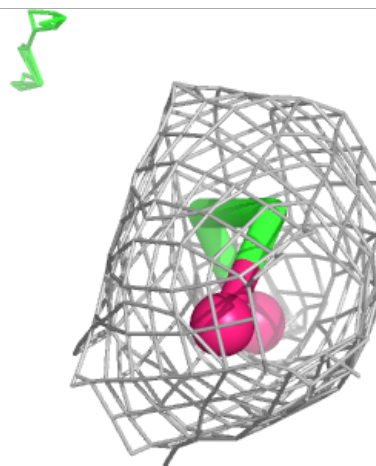
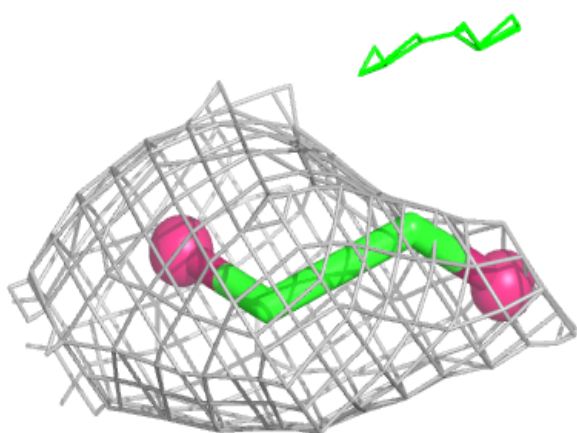
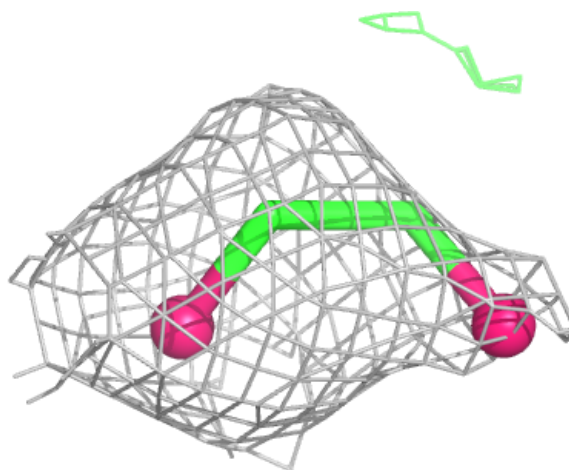
Electron density around EDO F 708:

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



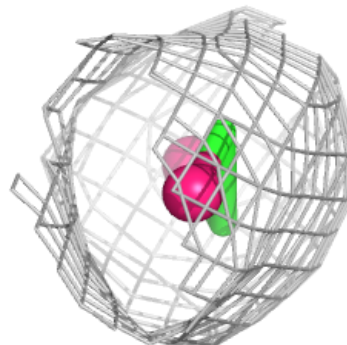
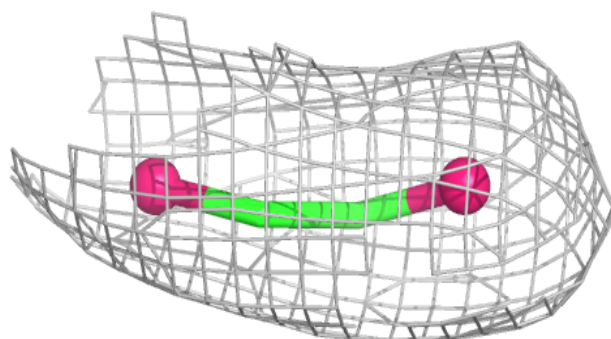
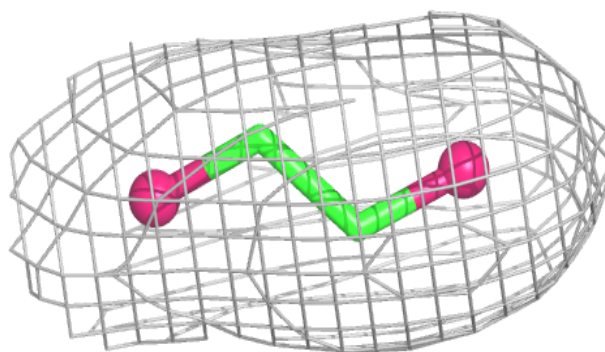
Electron density around EDO B 305:

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

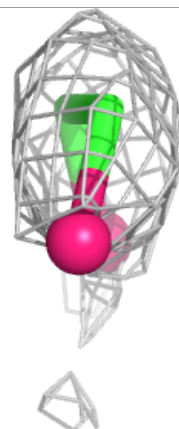
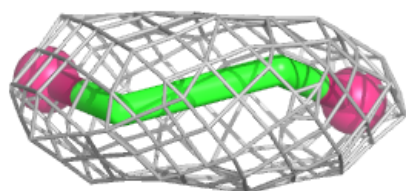
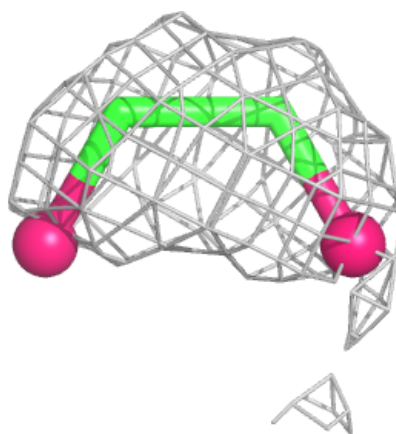


Electron density around EDO N 612:

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

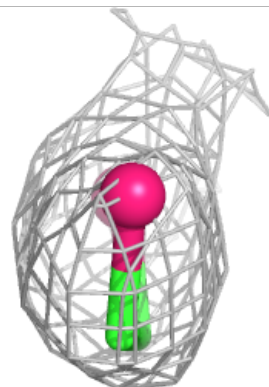
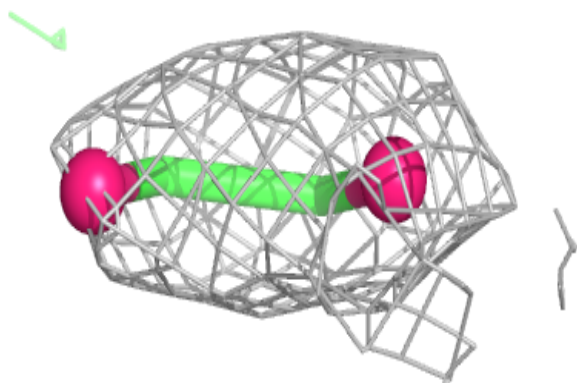
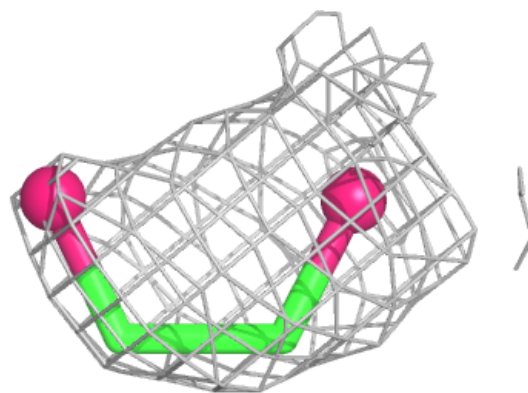
**Electron density around EDO T 104:**

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



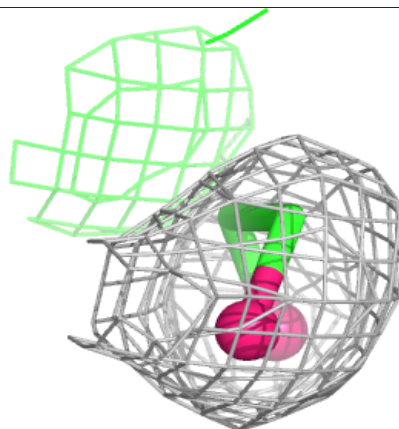
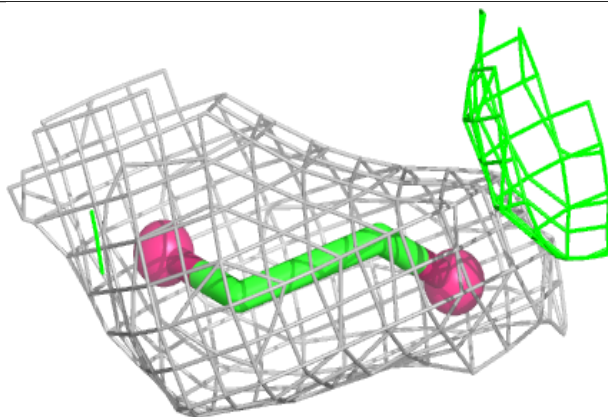
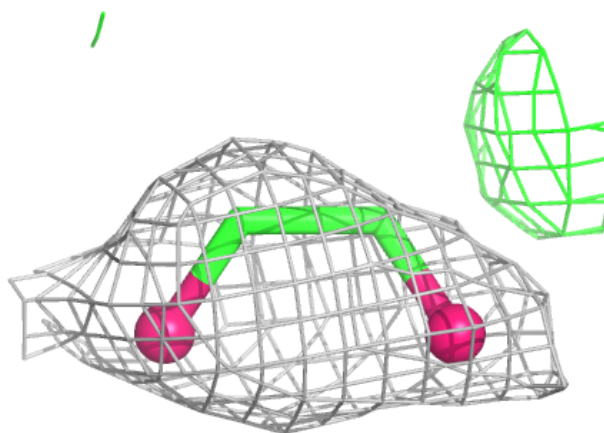
Electron density around EDO F 707:

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

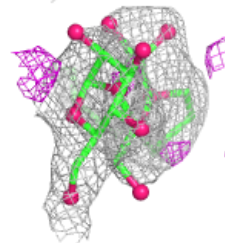
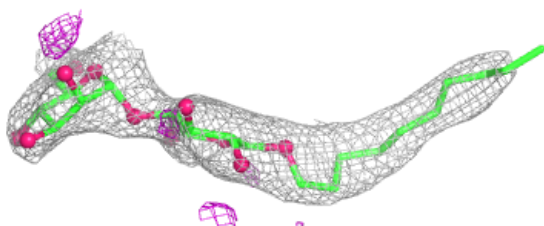
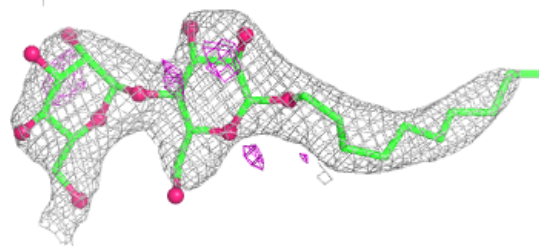


Electron density around EDO F 704:

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

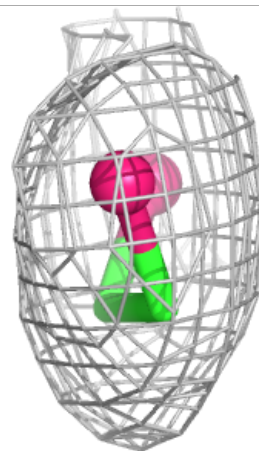
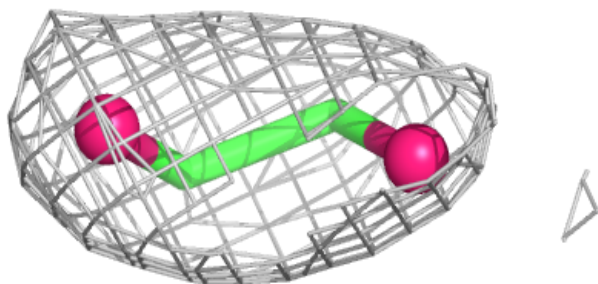
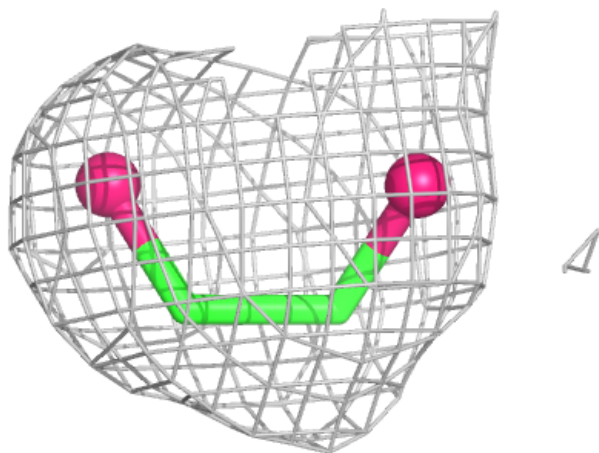
**Electron density around DMU Z 101:**

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



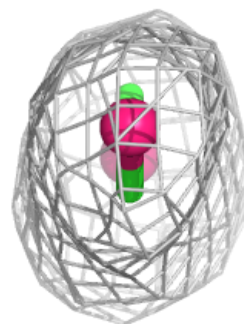
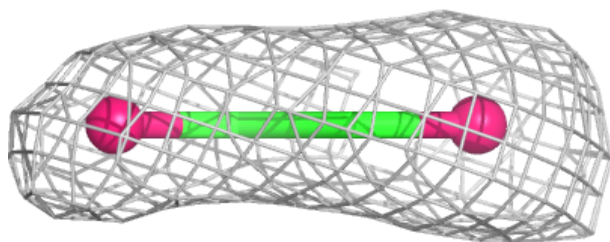
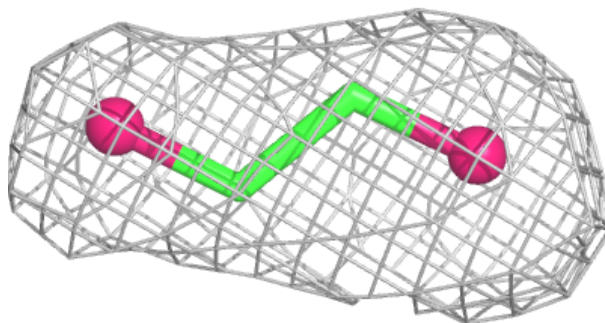
Electron density around EDO J 104:

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

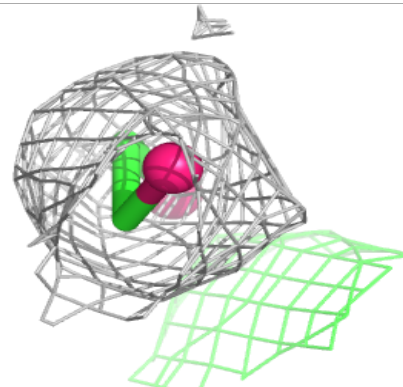
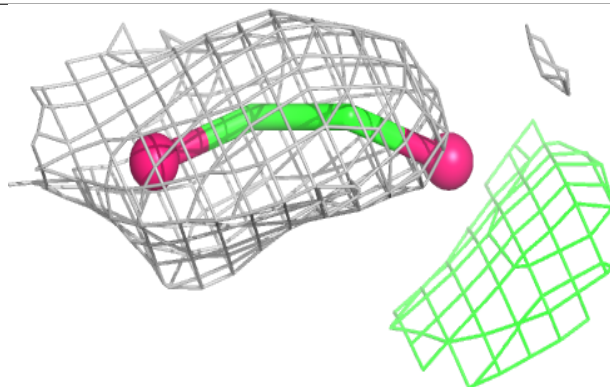
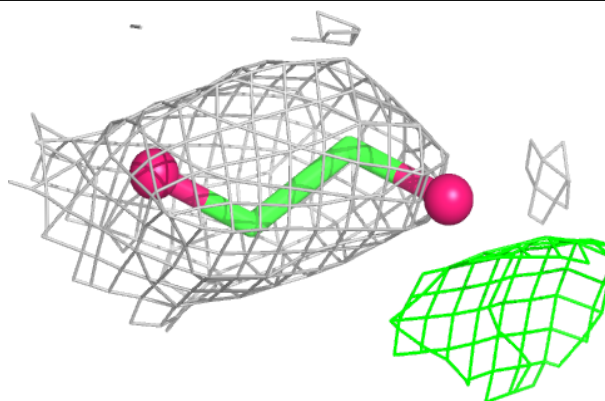


Electron density around EDO C 311:

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

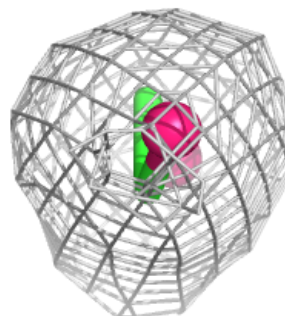
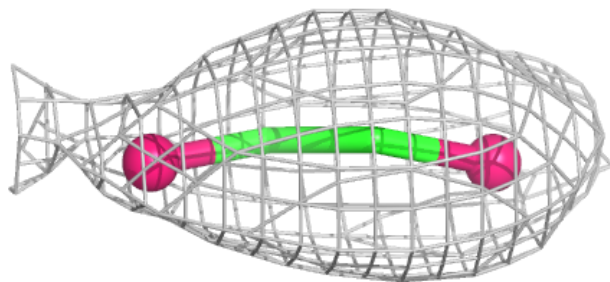
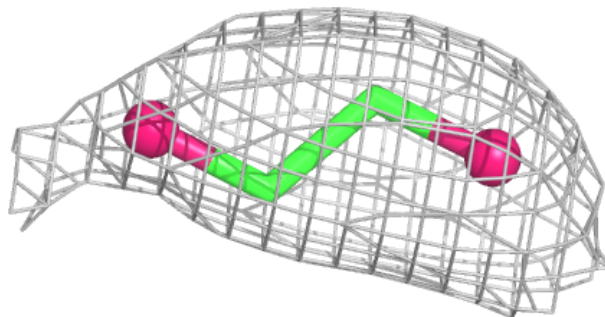
**Electron density around EDO S 2503:**

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



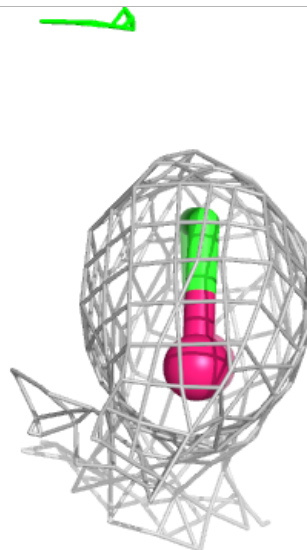
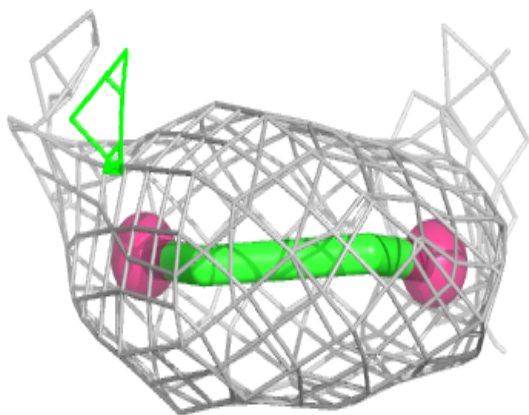
Electron density around EDO P 310:

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



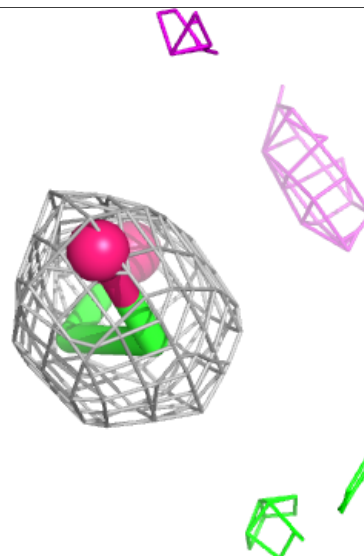
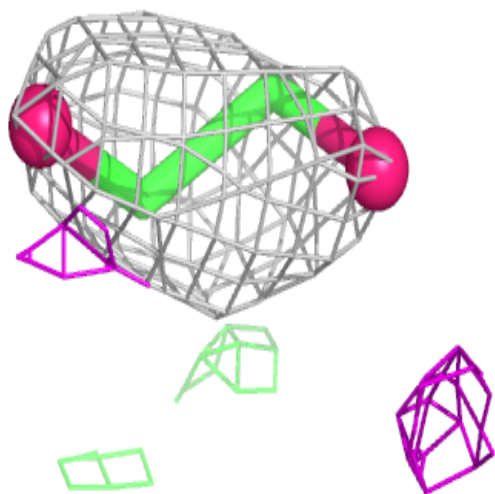
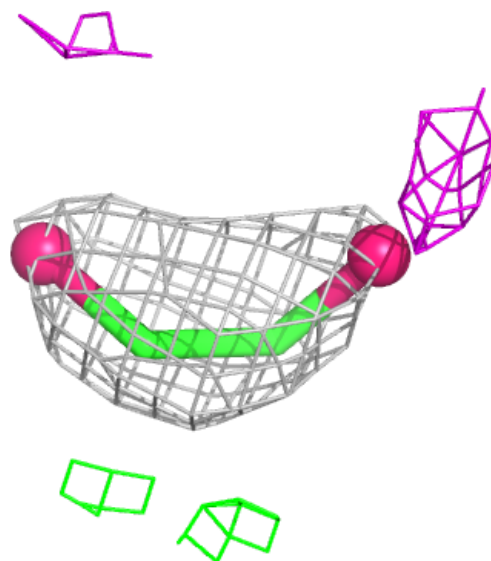
Electron density around EDO S 2505:

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



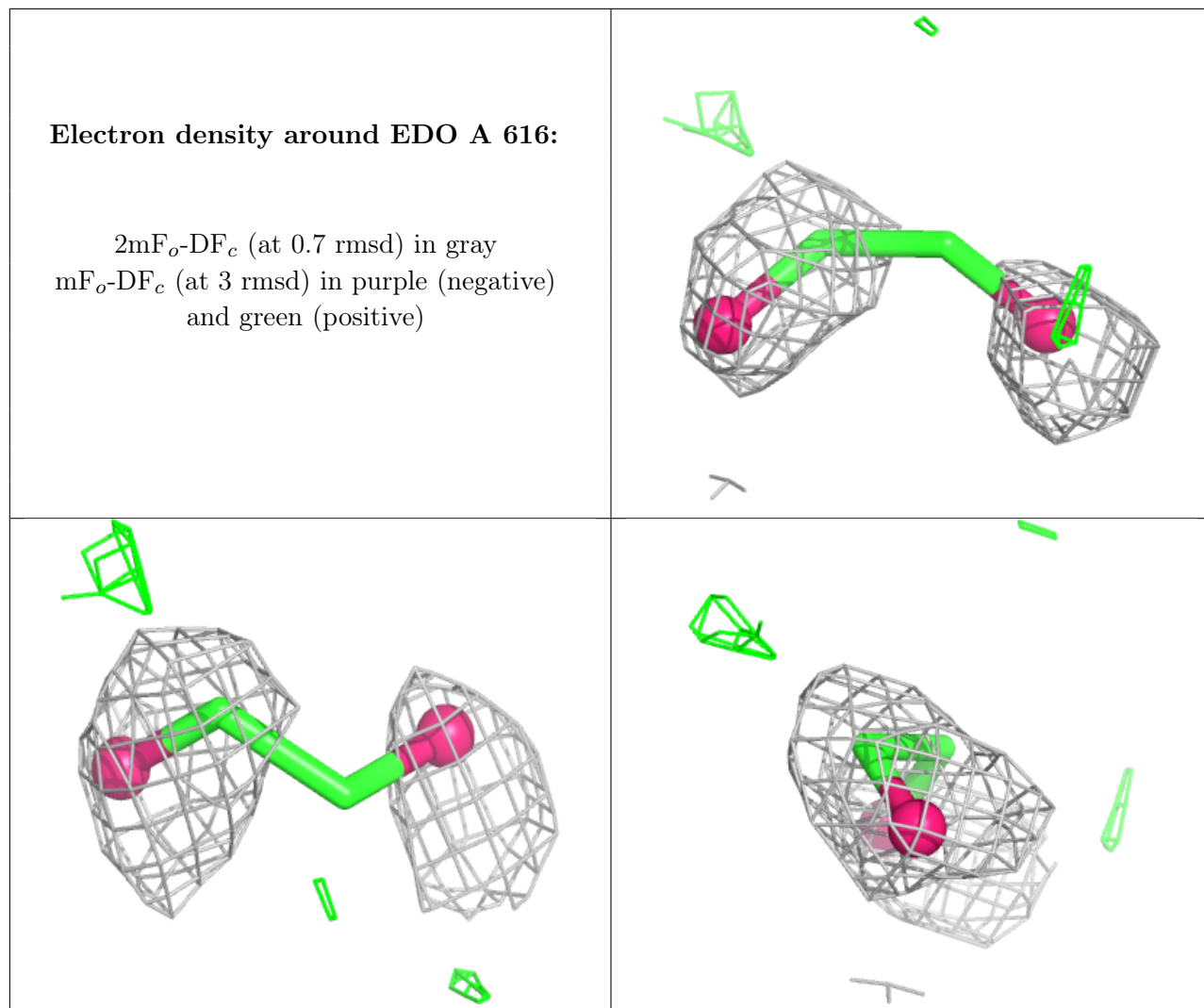
Electron density around EDO U 1501:

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



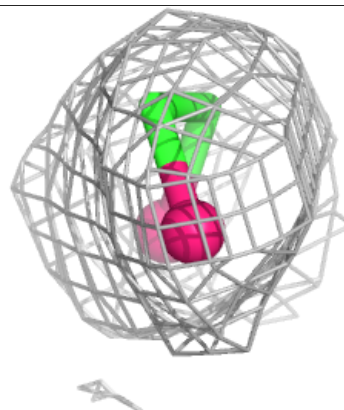
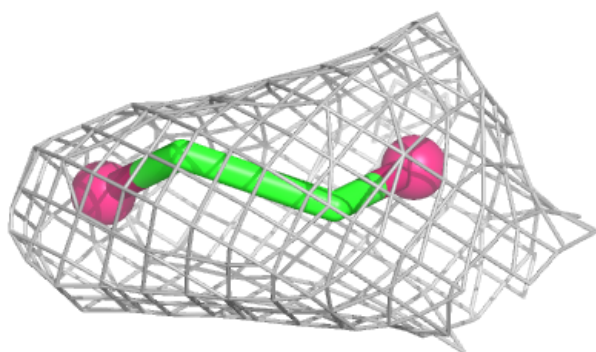
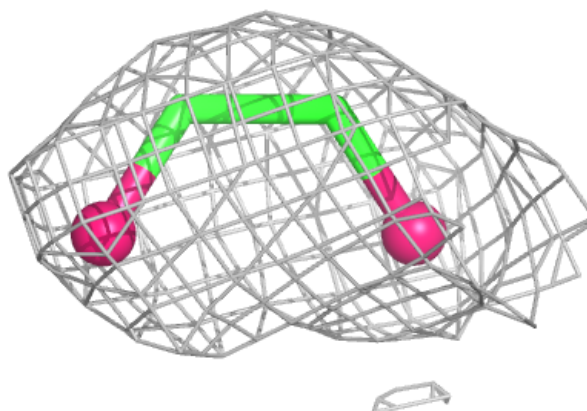
Electron density around EDO A 616:

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

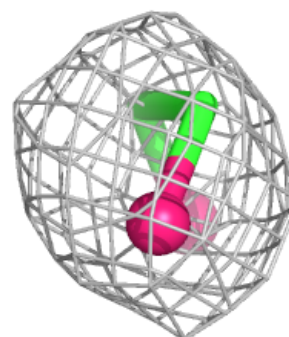
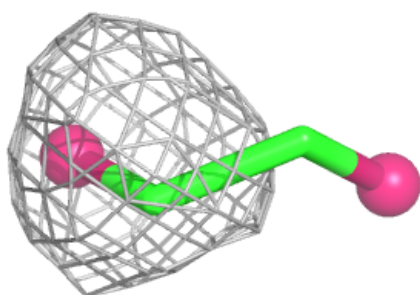
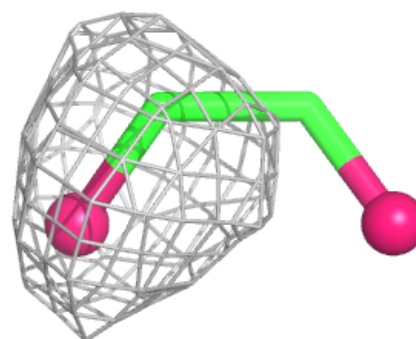


Electron density around EDO S 2509:

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

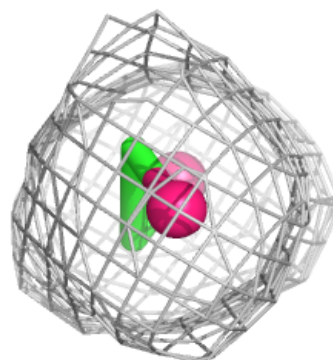
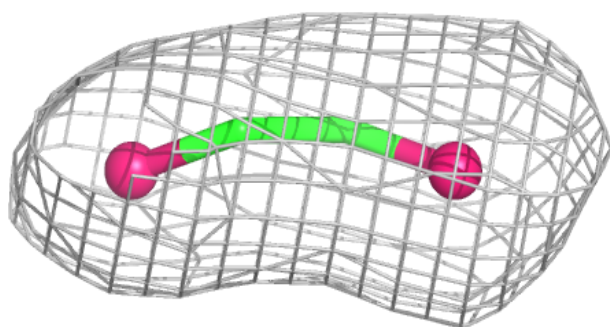
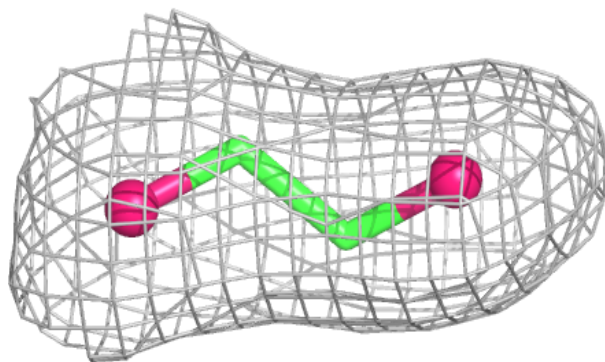
**Electron density around EDO W 301:**

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



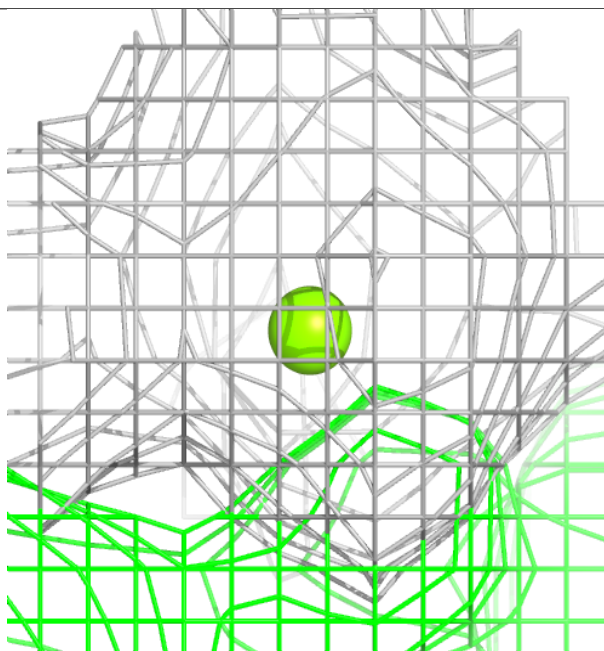
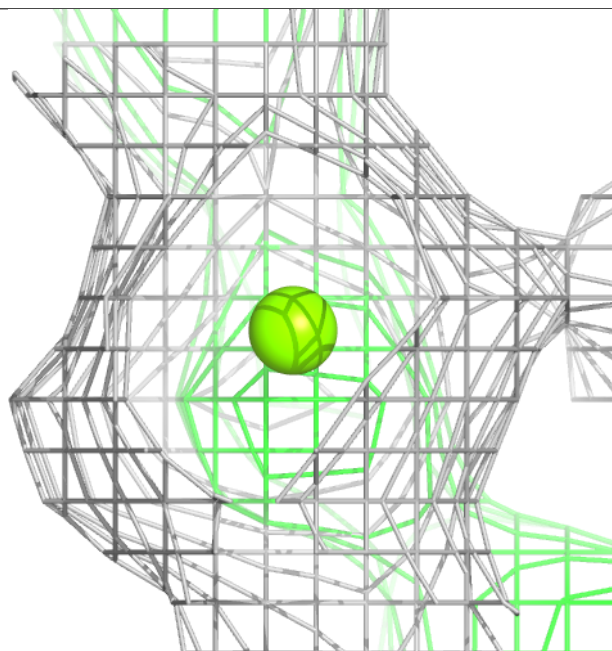
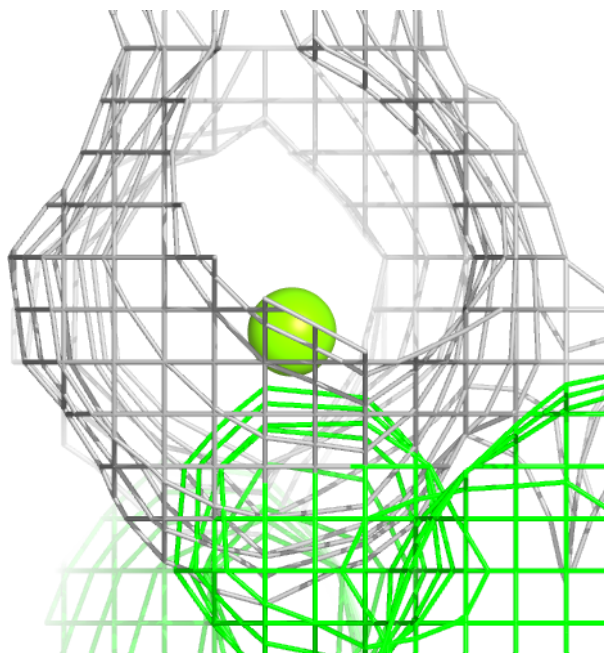
Electron density around EDO G 106:

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



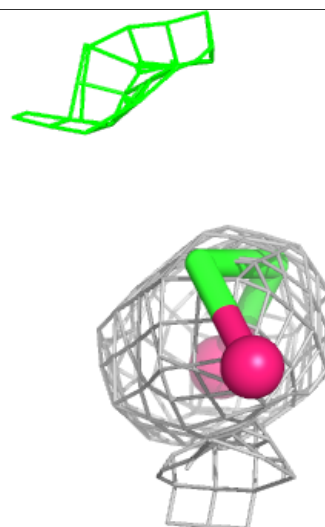
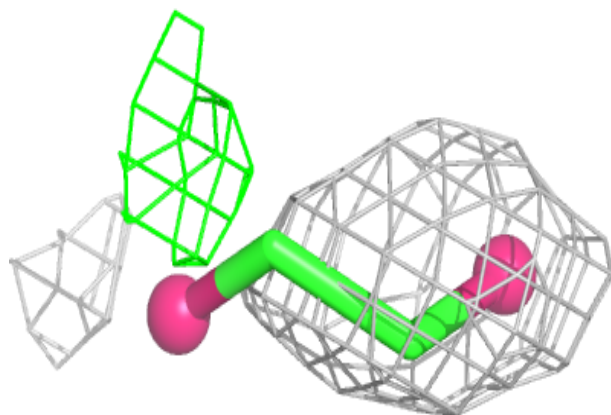
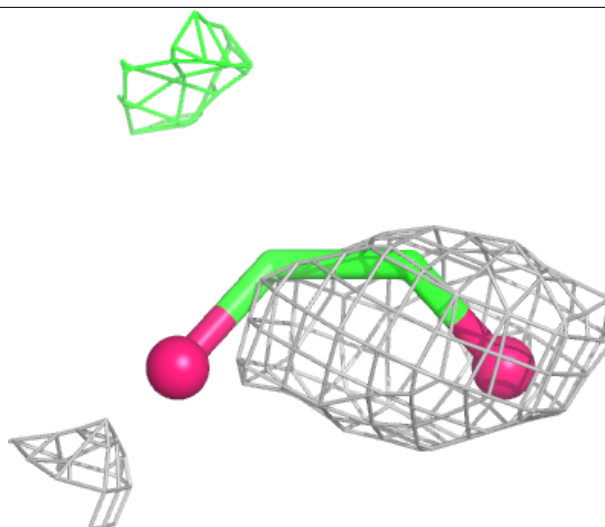
Electron density around MG A 602:

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



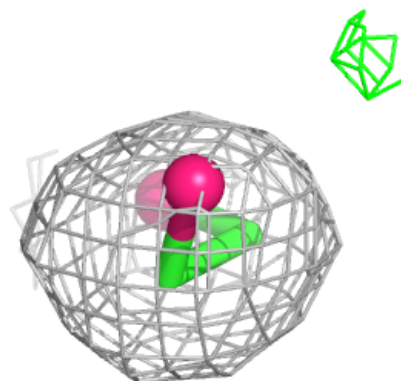
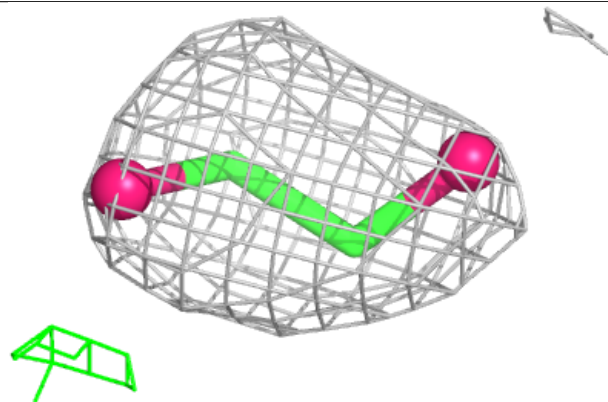
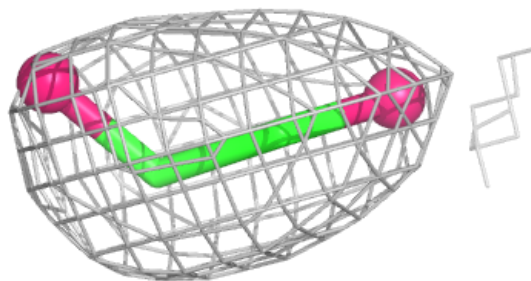
Electron density around EDO S 2506:

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



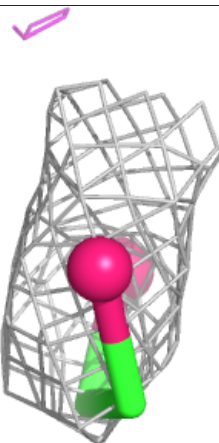
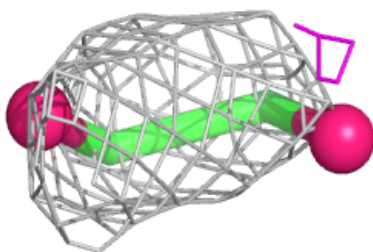
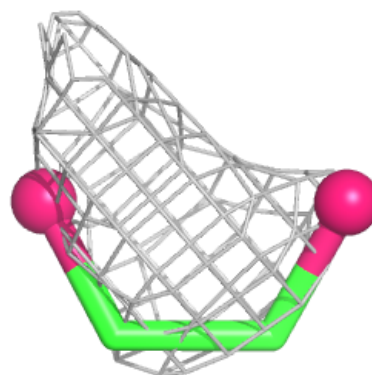
Electron density around EDO N 615:

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



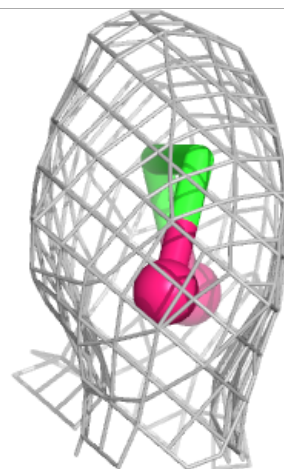
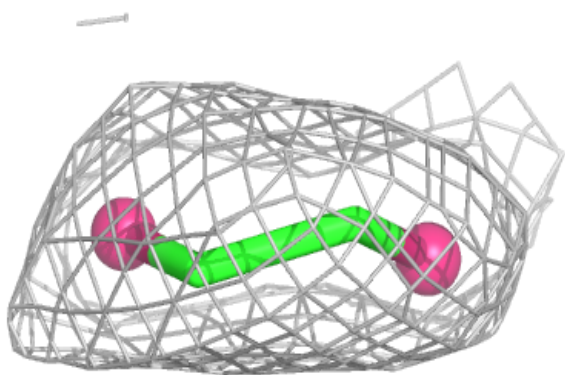
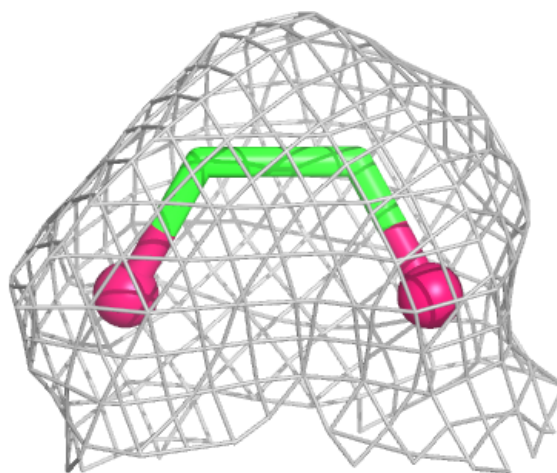
Electron density around EDO Q 1601:

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



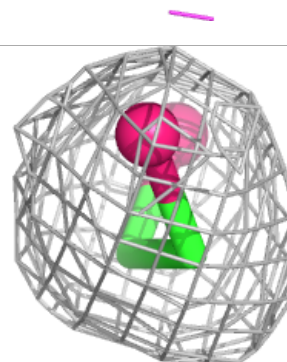
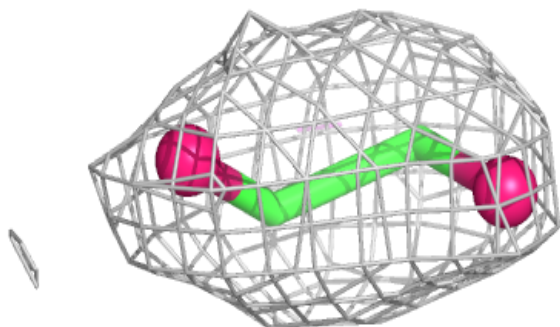
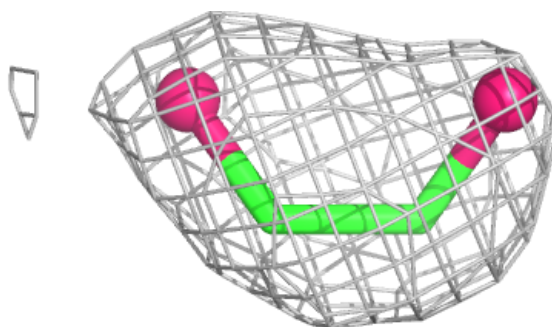
Electron density around EDO F 706:

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



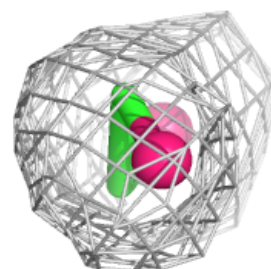
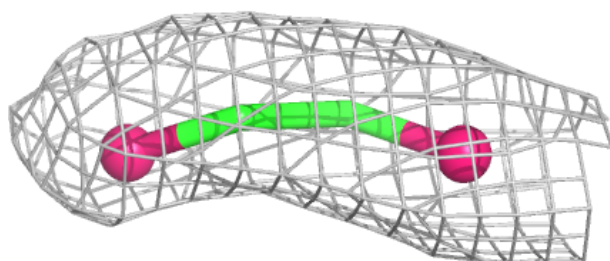
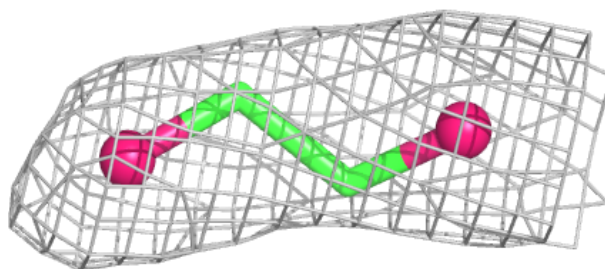
Electron density around EDO T 106:

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

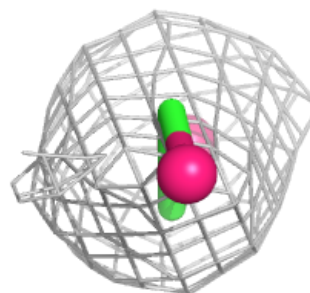
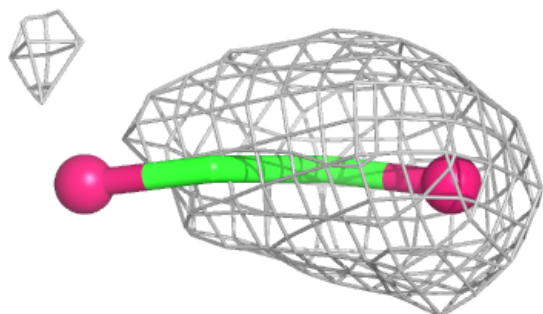
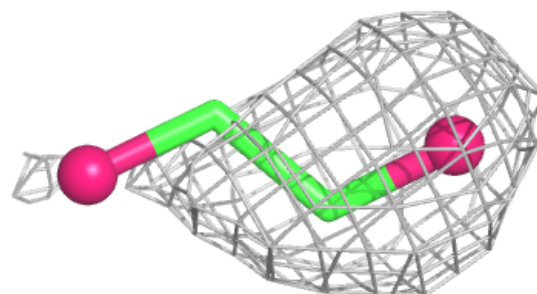


Electron density around EDO K 902:

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

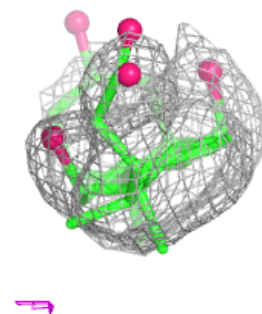
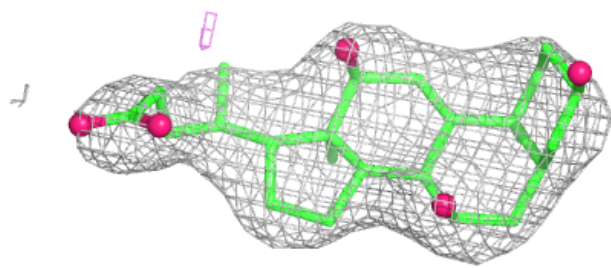
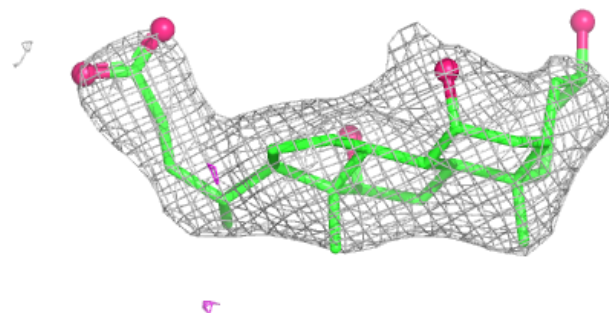
**Electron density around EDO O 303:**

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

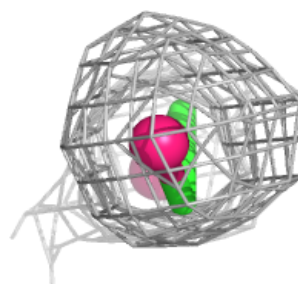
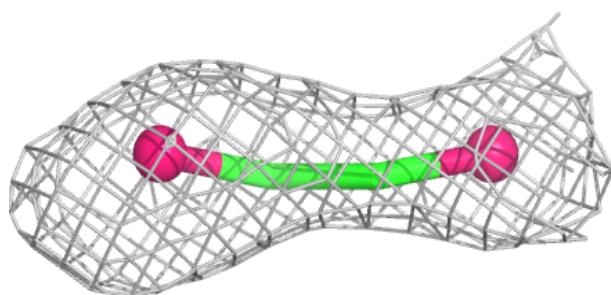
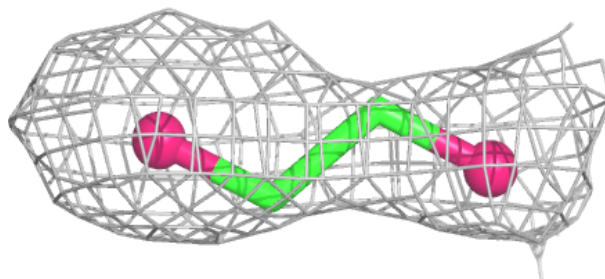


Electron density around CHD J 101:

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

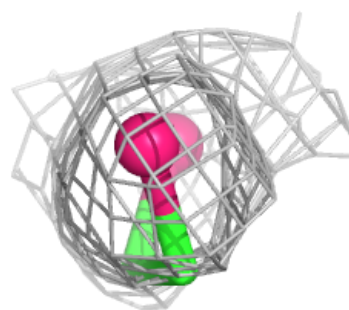
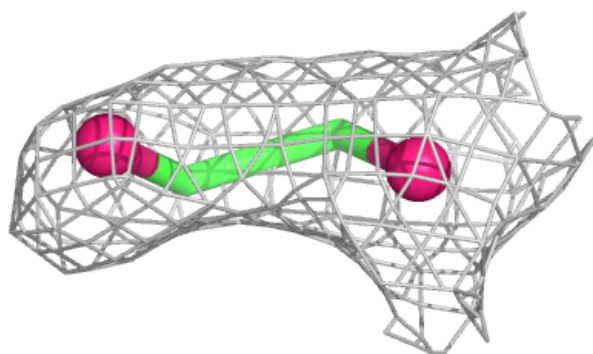
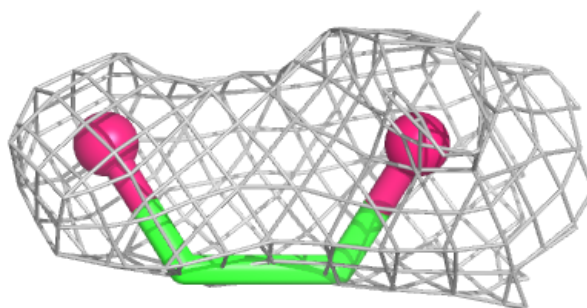
**Electron density around EDO J 103:**

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

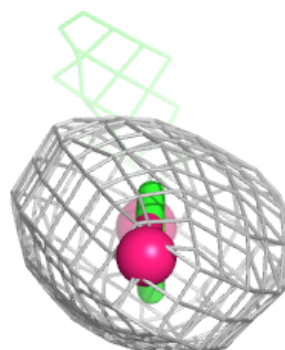
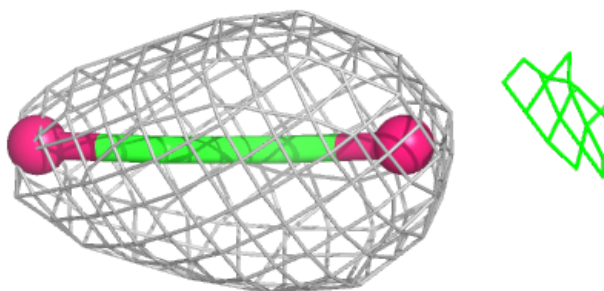
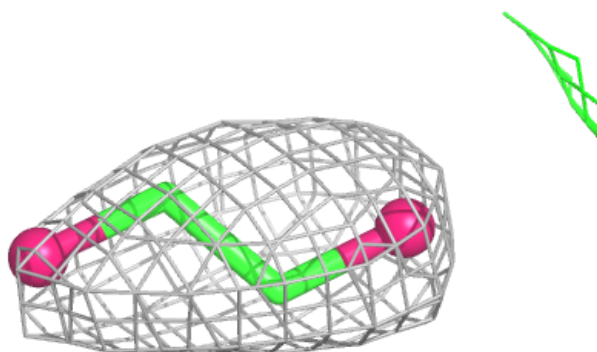


Electron density around EDO A 618:

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

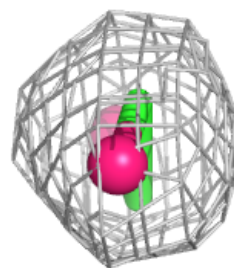
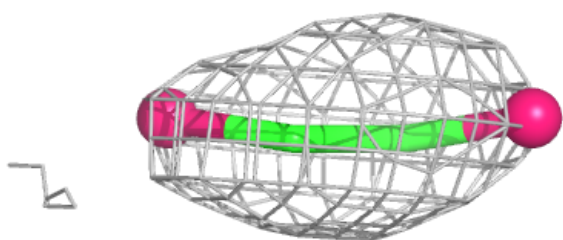
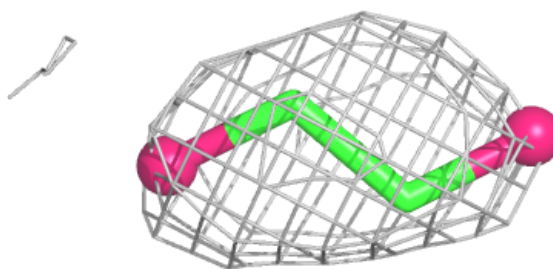
**Electron density around EDO Q 1602:**

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



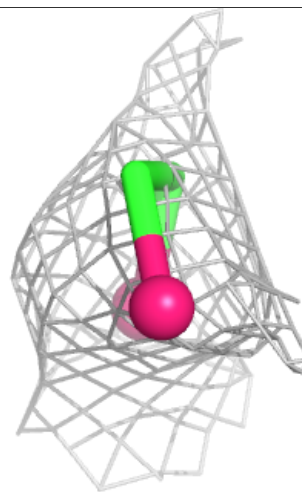
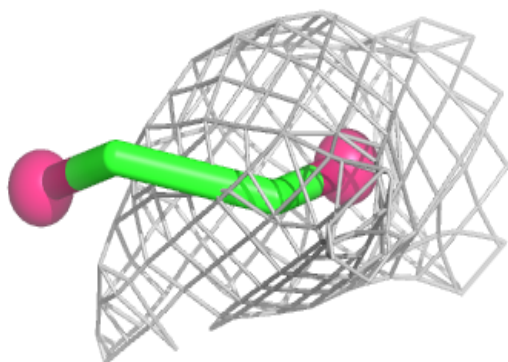
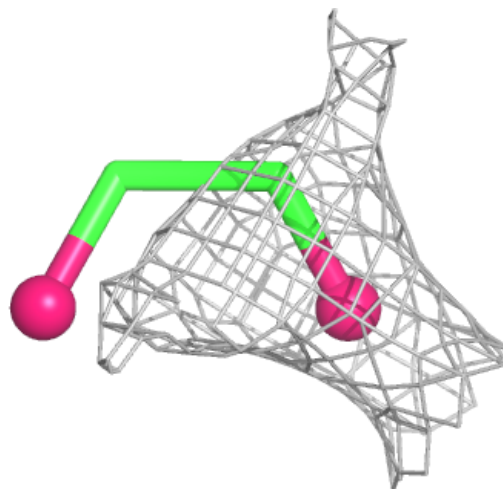
Electron density around EDO I 104:

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



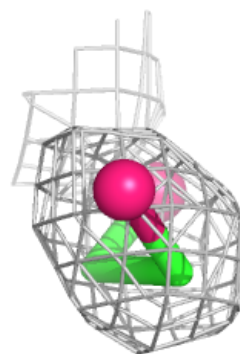
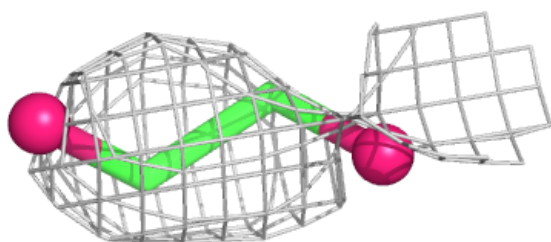
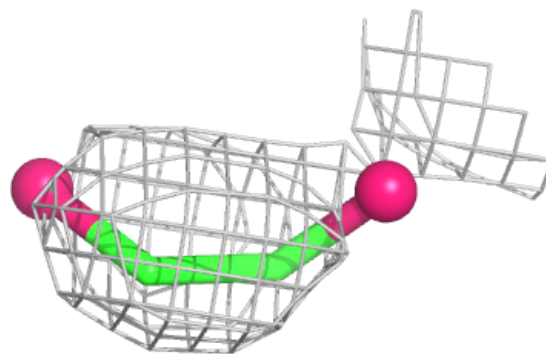
Electron density around EDO S 2507:

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



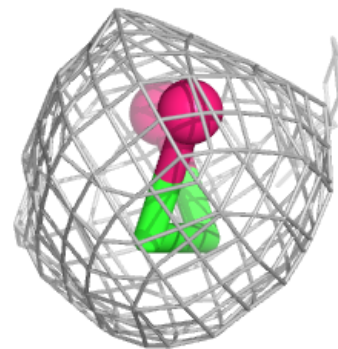
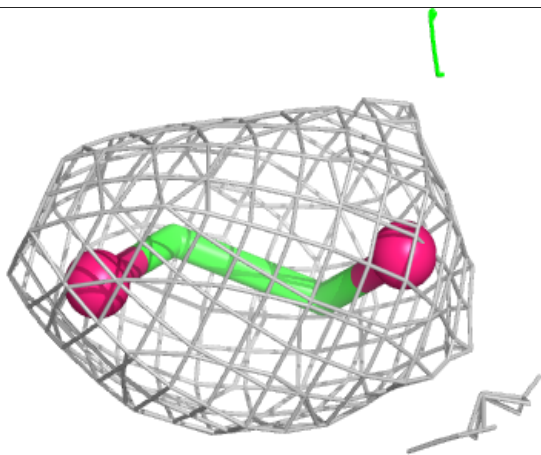
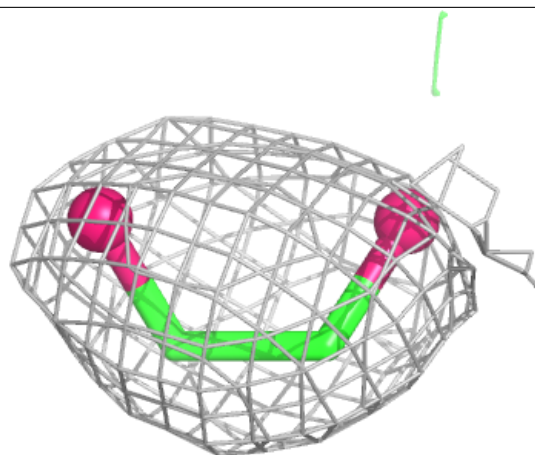
Electron density around EDO V 104:

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



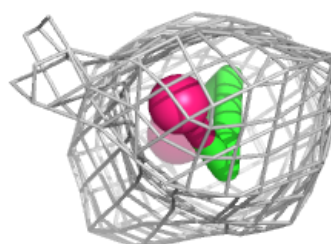
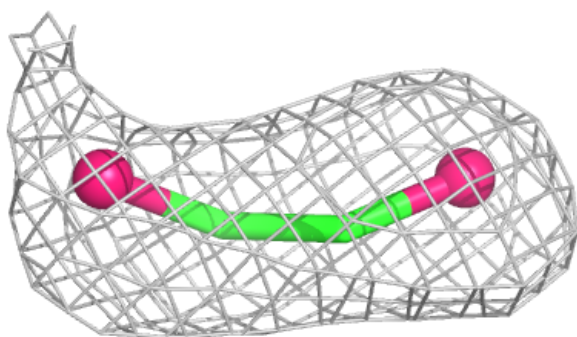
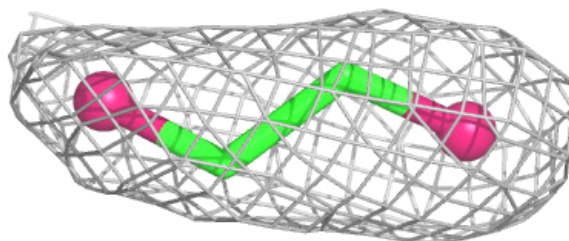
Electron density around EDO E 203:

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

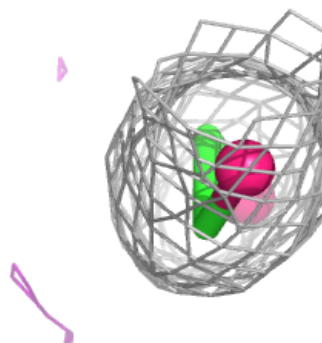
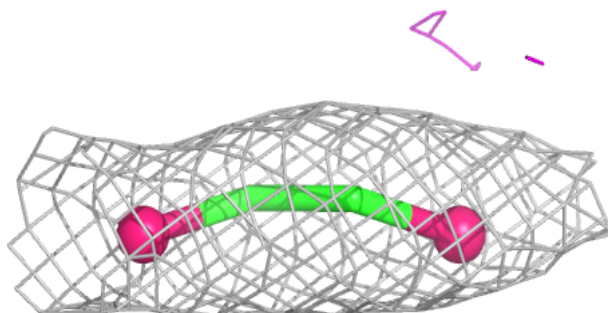
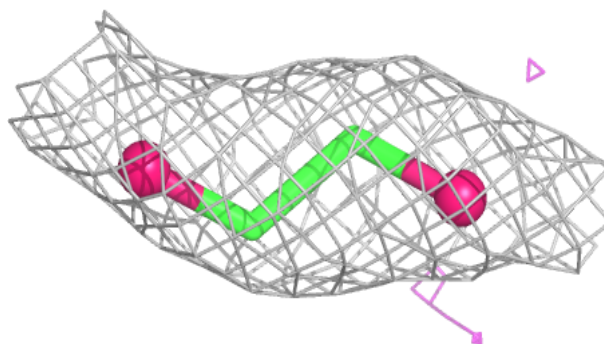


Electron density around EDO B 309:

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

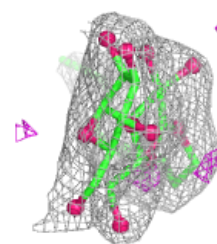
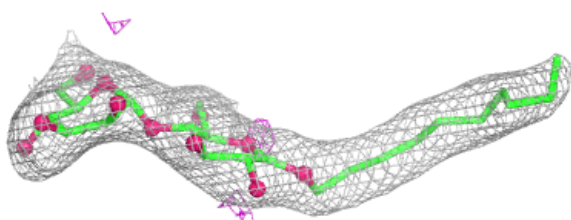
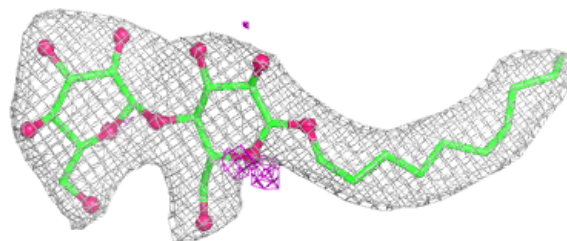
**Electron density around EDO L 102:**

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

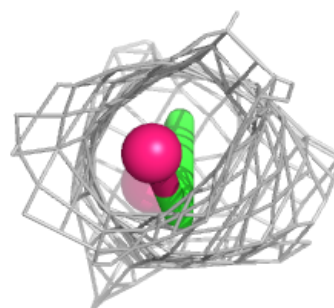
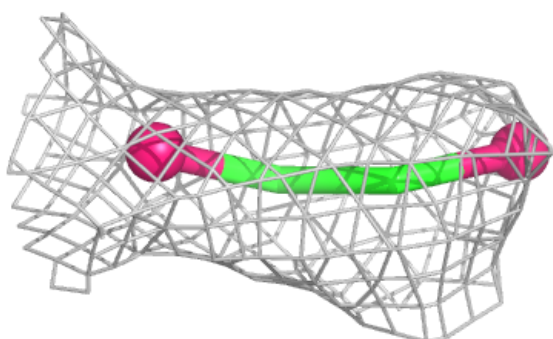
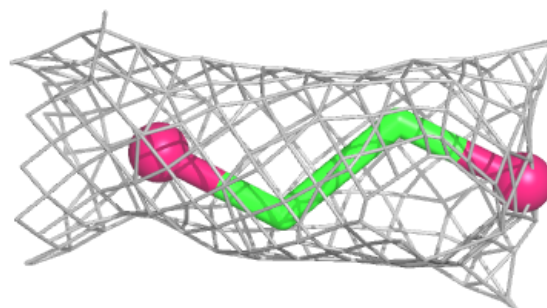


Electron density around DMU M 101:

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

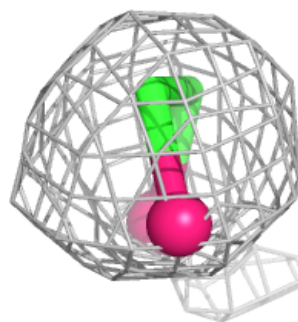
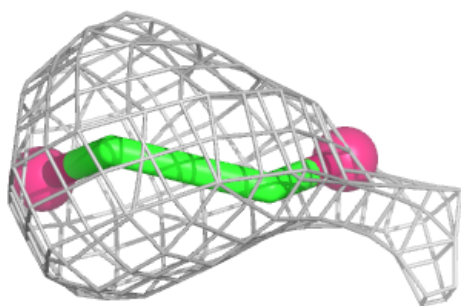
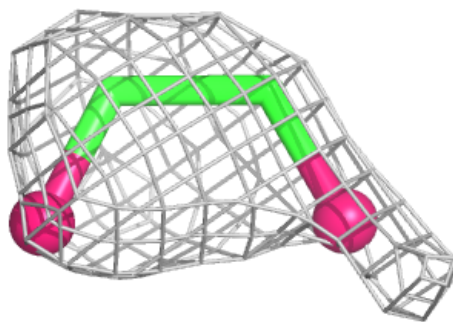
**Electron density around EDO B 310:**

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



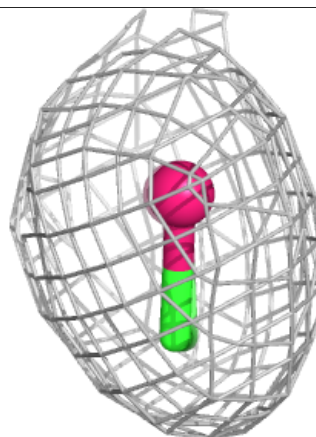
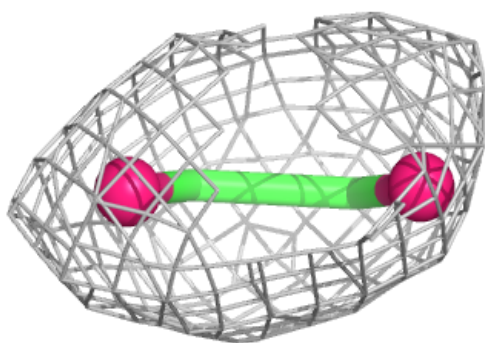
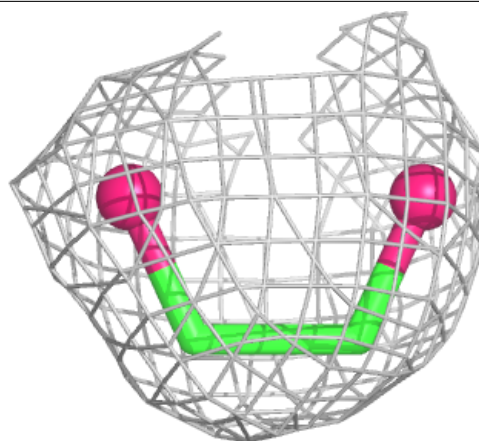
Electron density around EDO N 619:

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

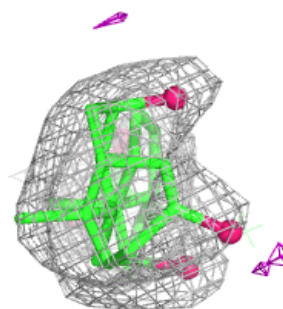
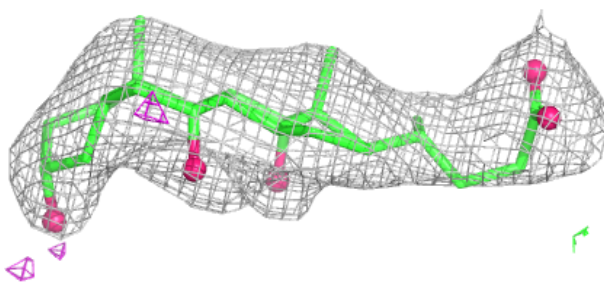
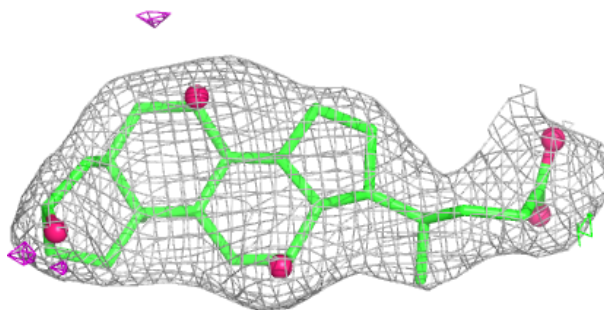


Electron density around EDO D 203:

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

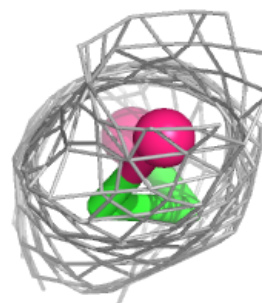
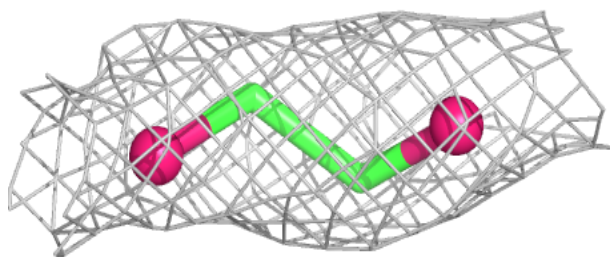
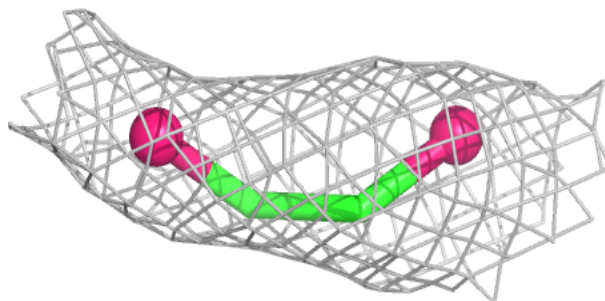
**Electron density around CHD P 309:**

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

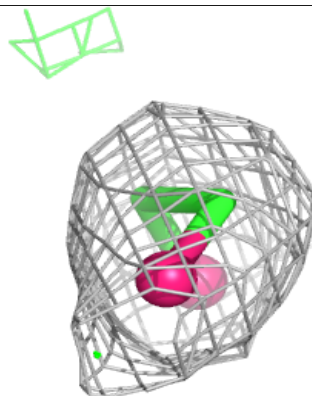
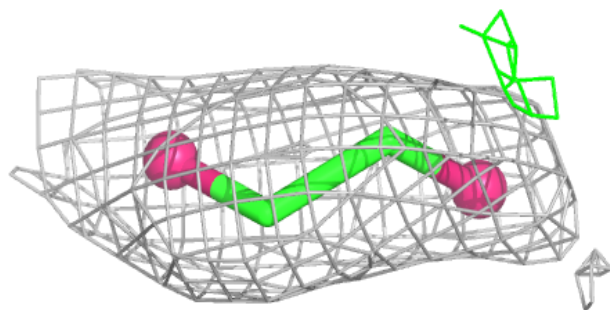
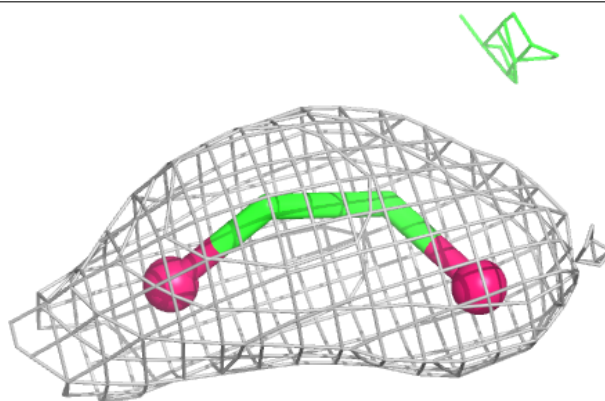


Electron density around EDO G 104:

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

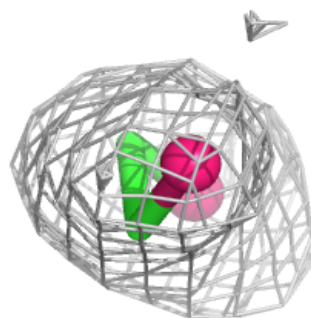
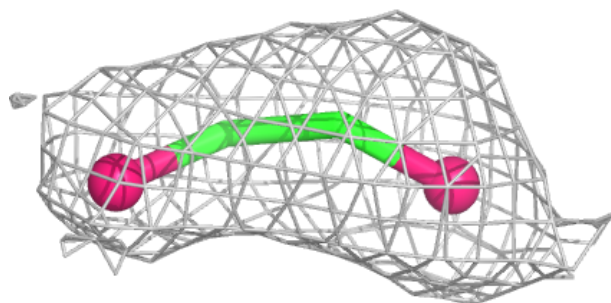
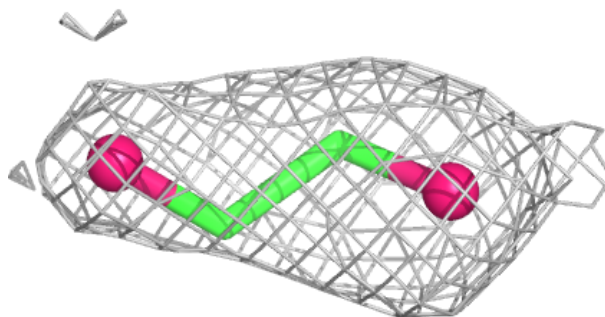
**Electron density around EDO B 304:**

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

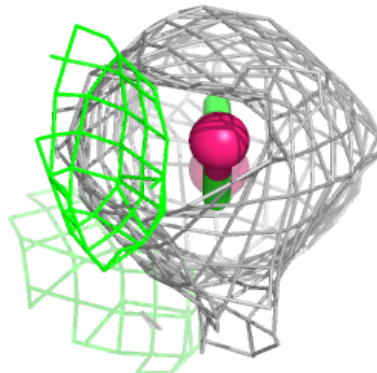
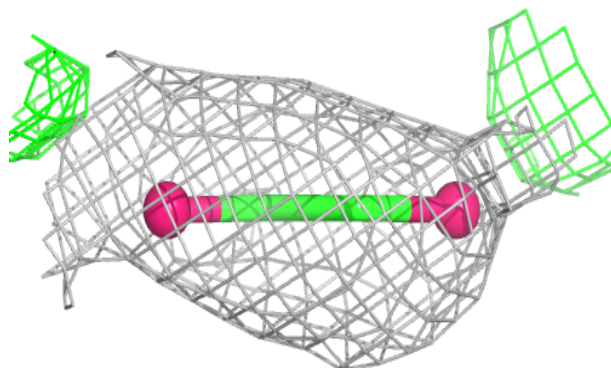
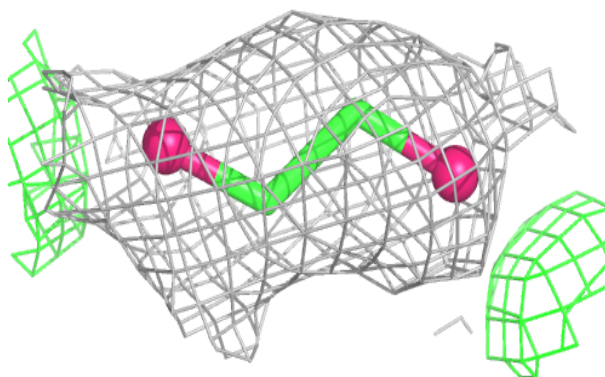


Electron density around EDO N 611:

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

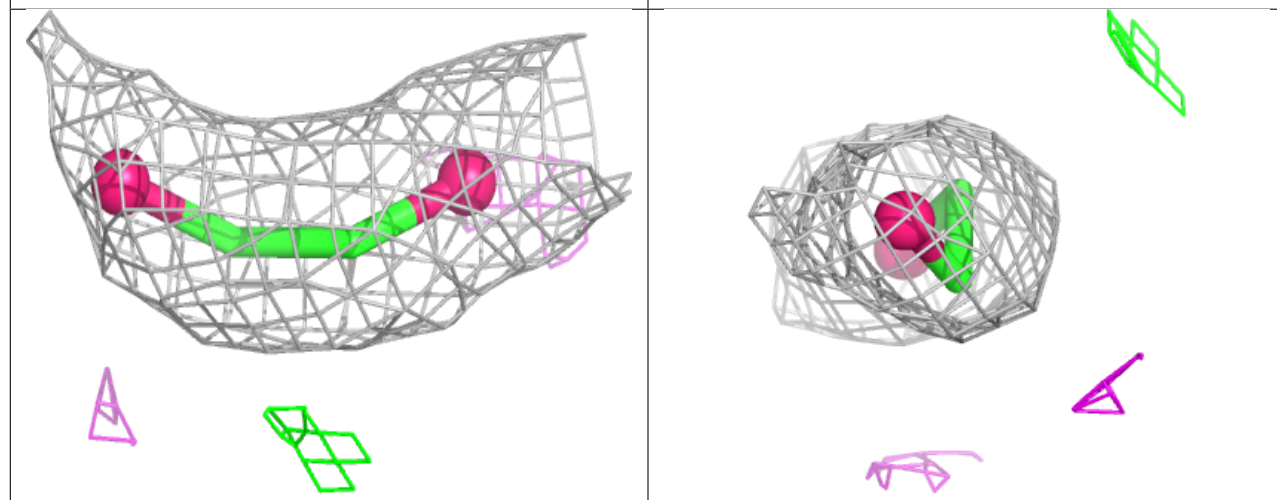
**Electron density around EDO F 705:**

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



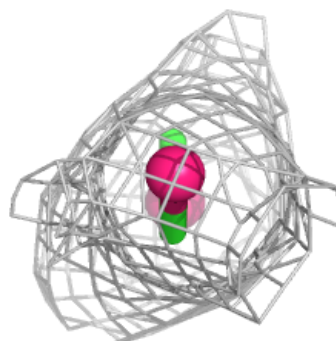
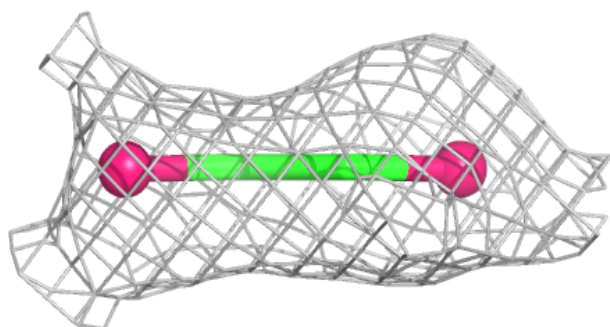
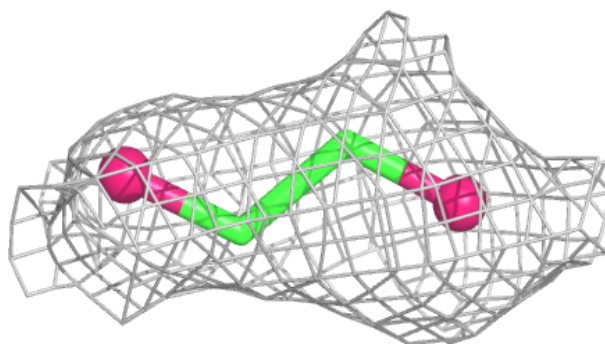
Electron density around EDO C 309:

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

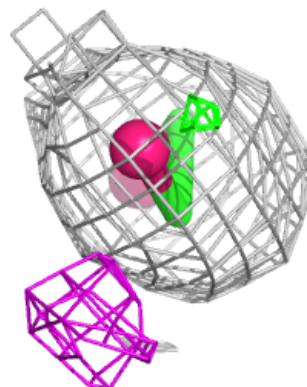
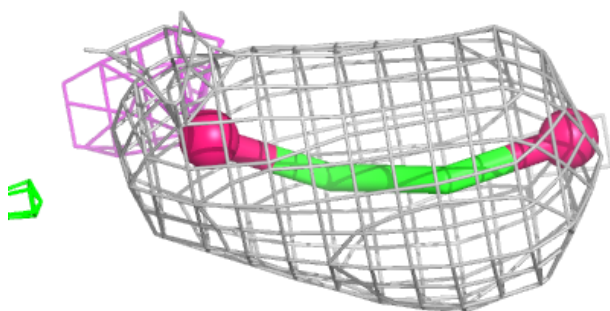
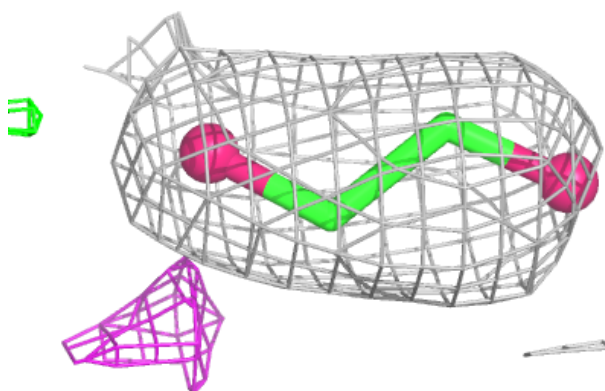


Electron density around EDO A 612:

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

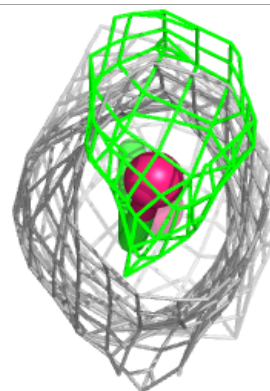
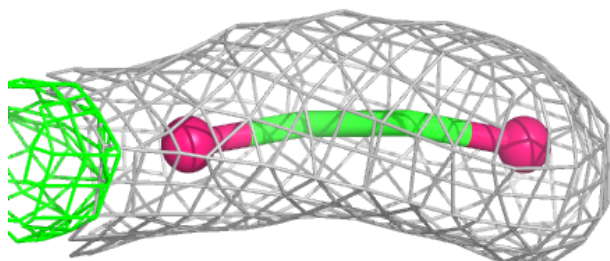
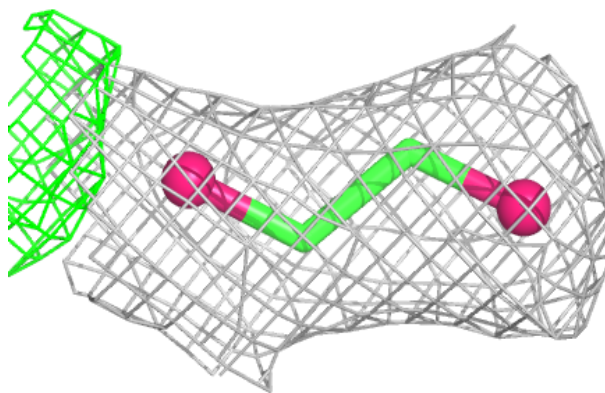
**Electron density around EDO B 303:**

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

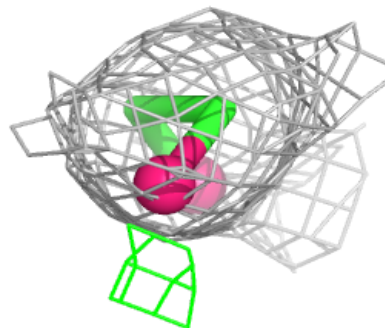
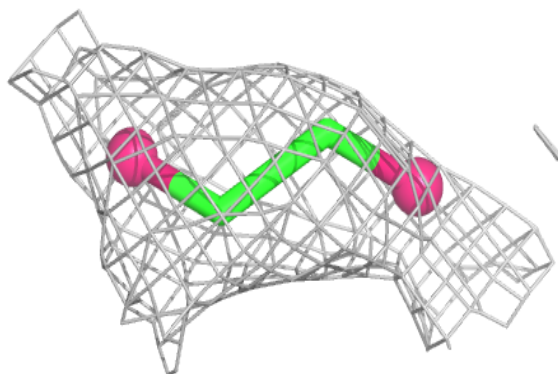
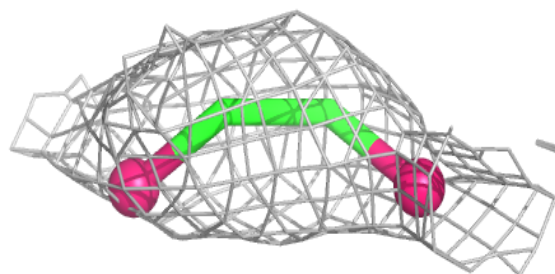


Electron density around EDO A 608:

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

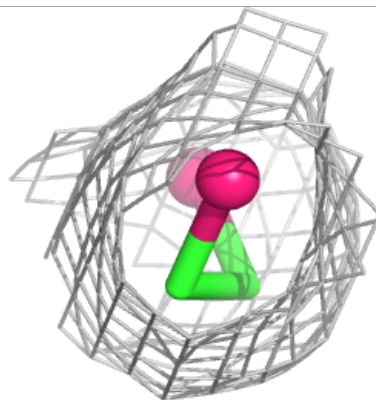
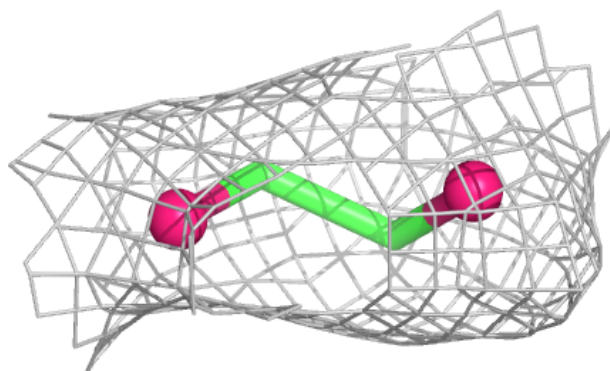
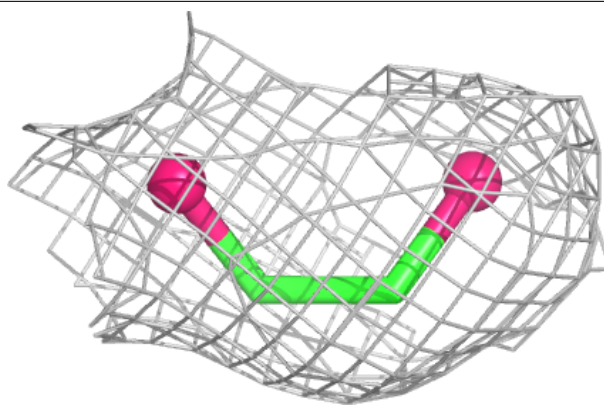
**Electron density around EDO S 2501:**

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



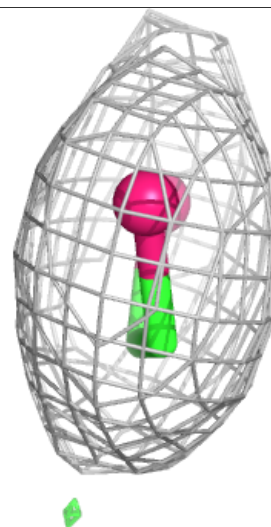
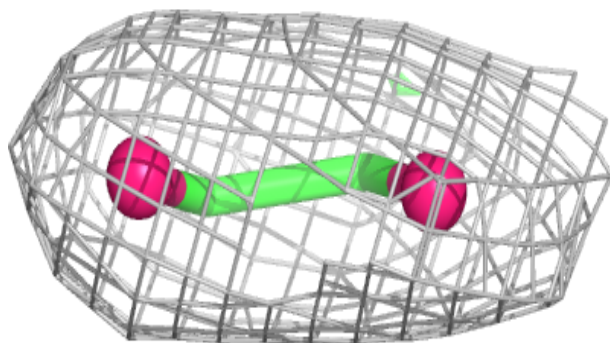
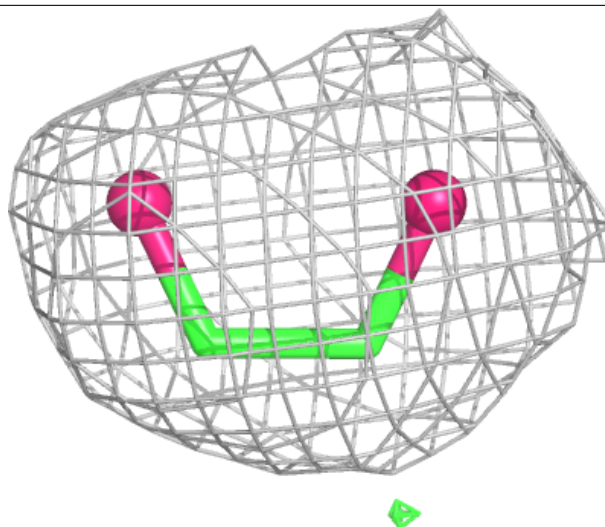
Electron density around EDO E 201:

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



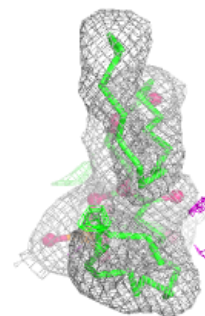
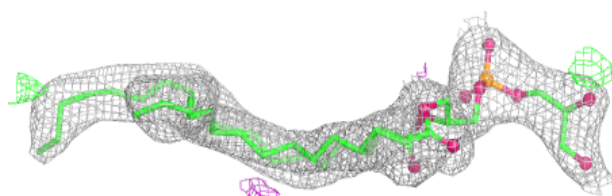
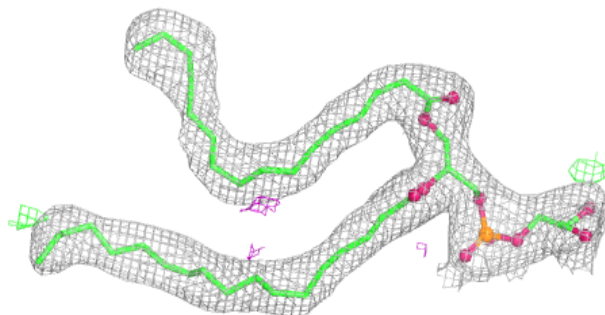
Electron density around EDO E 202:

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

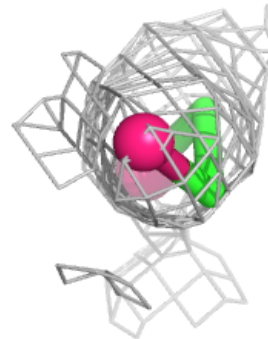
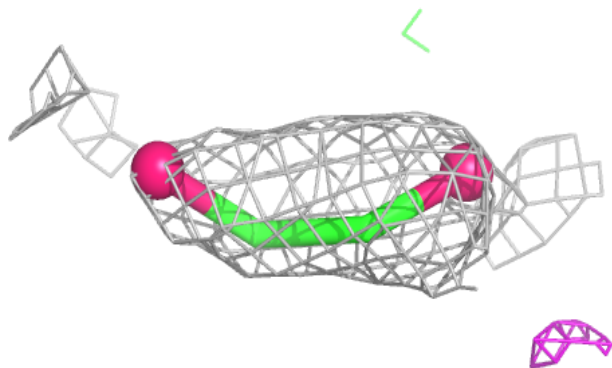
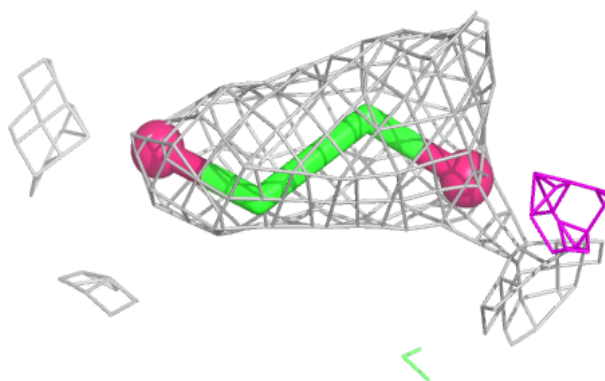


Electron density around PGV N 606:

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

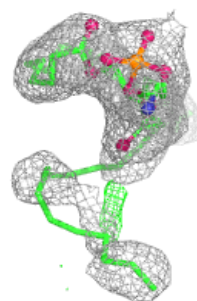
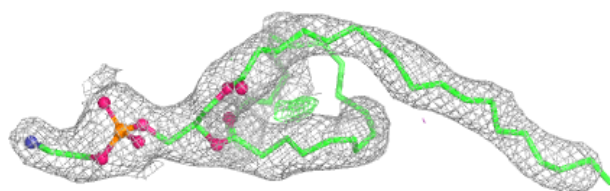
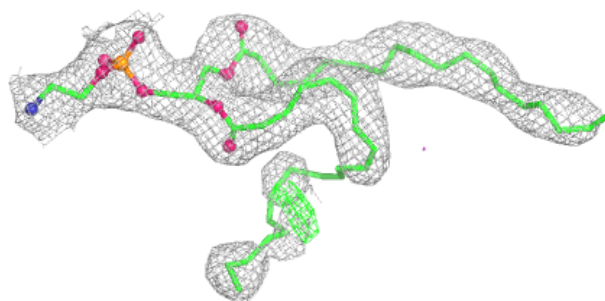
**Electron density around EDO A 613:**

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

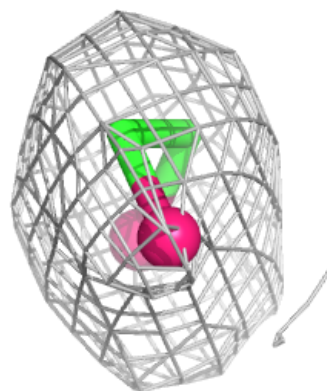
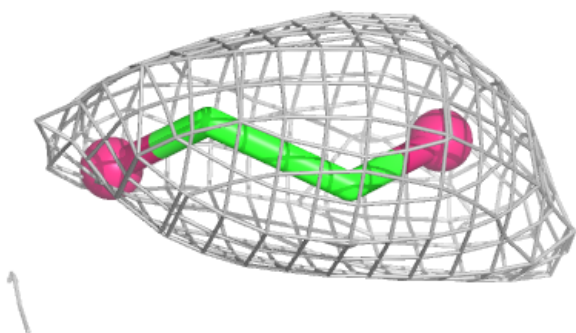
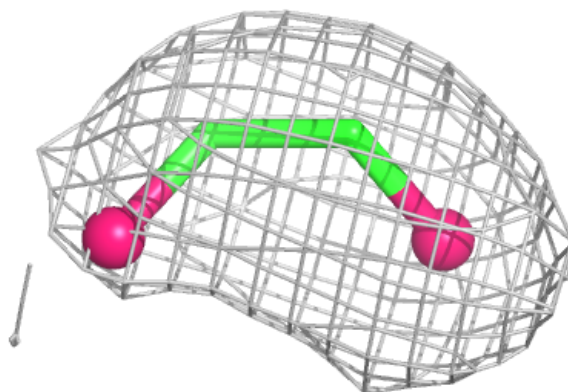


Electron density around PEK T 102:

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

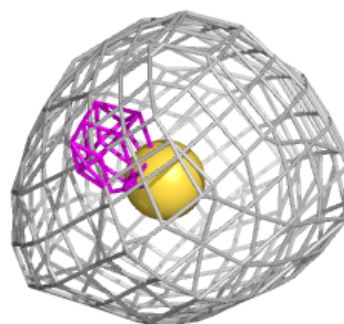
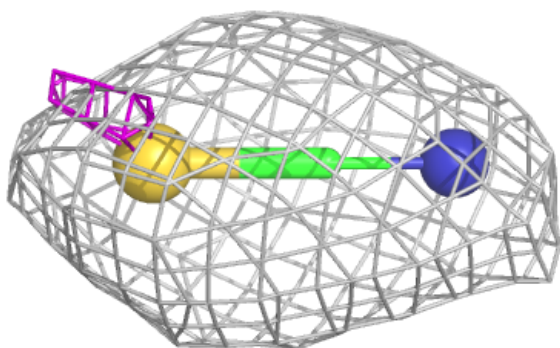
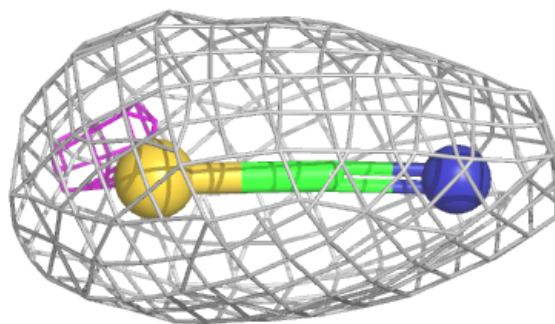
**Electron density around EDO C 308:**

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

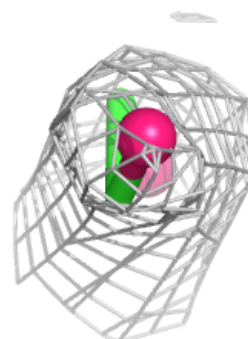
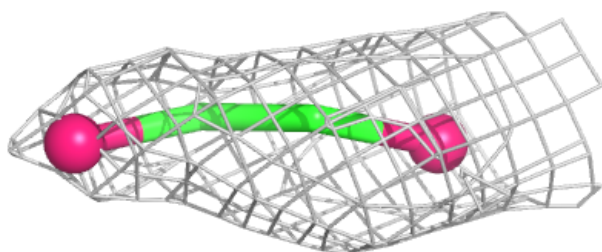
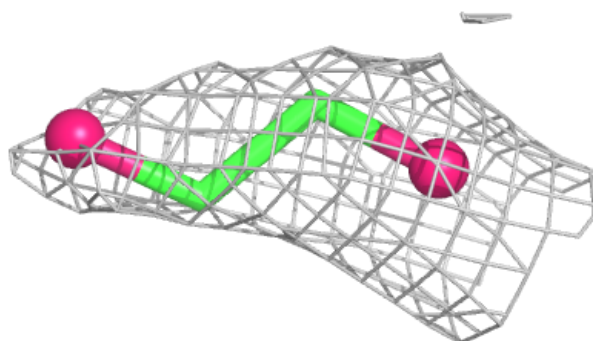


Electron density around SCN C 312:

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

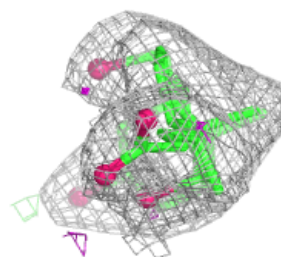
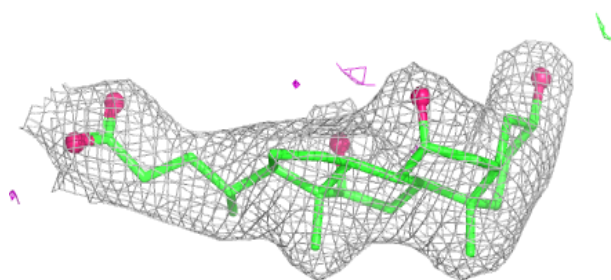
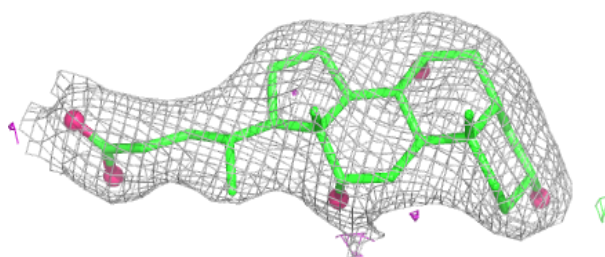
**Electron density around EDO N 618:**

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

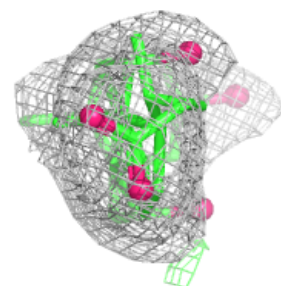
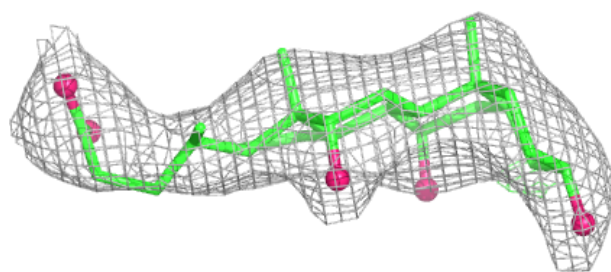
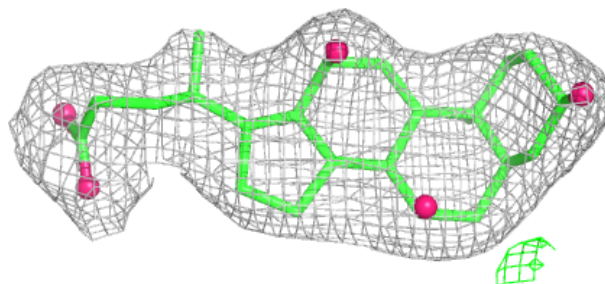


Electron density around CHD C 302:

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

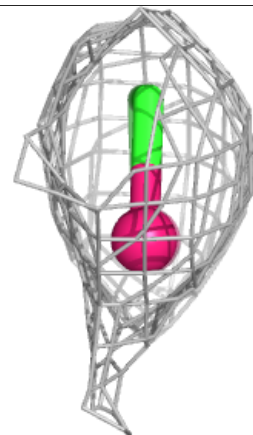
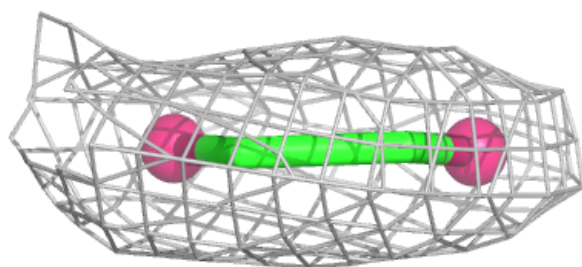
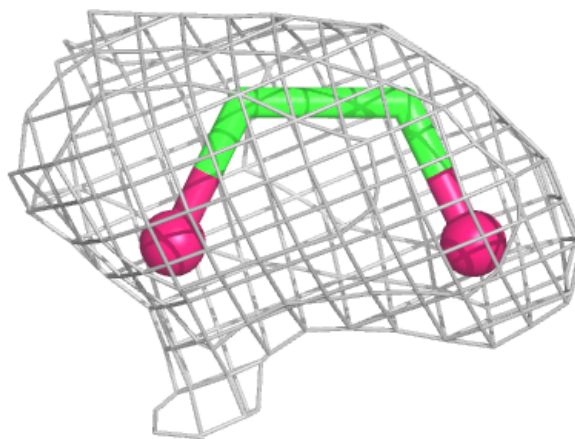
**Electron density around CHD C 307:**

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



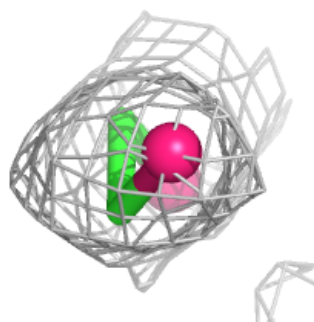
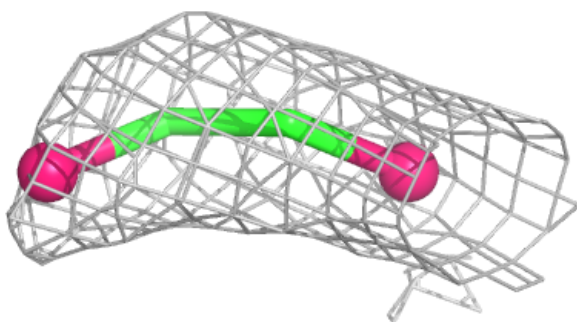
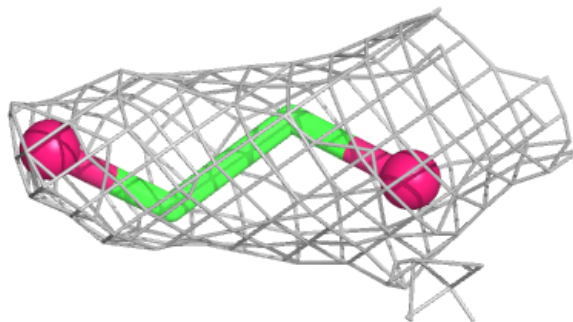
Electron density around EDO R 202:

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

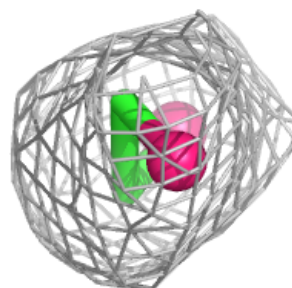
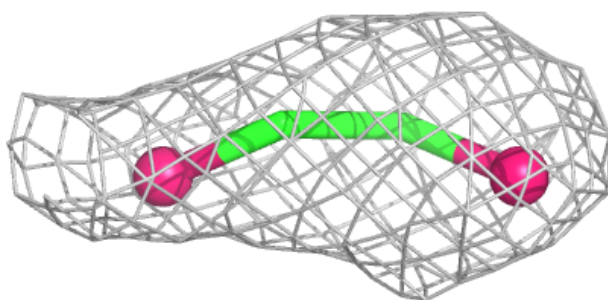
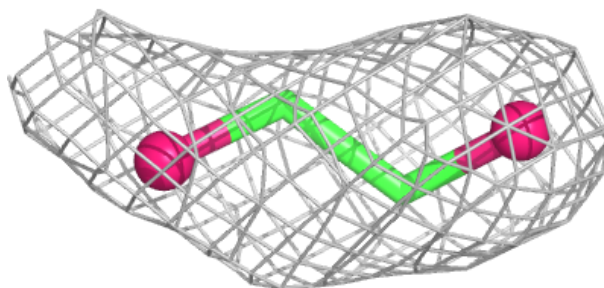


Electron density around EDO F 703:

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

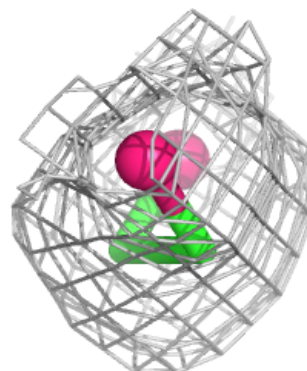
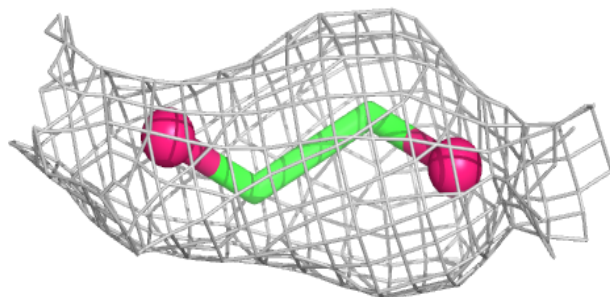
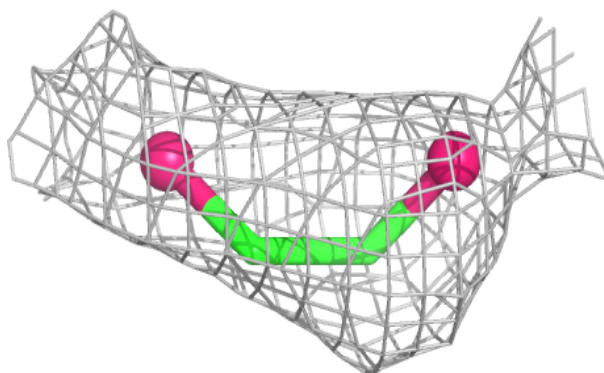
**Electron density around EDO N 609:**

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

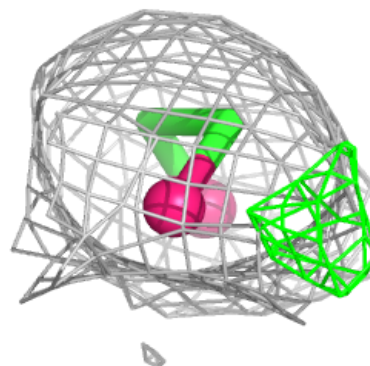
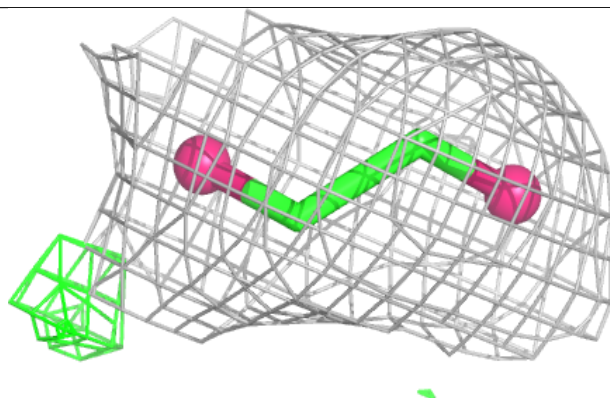
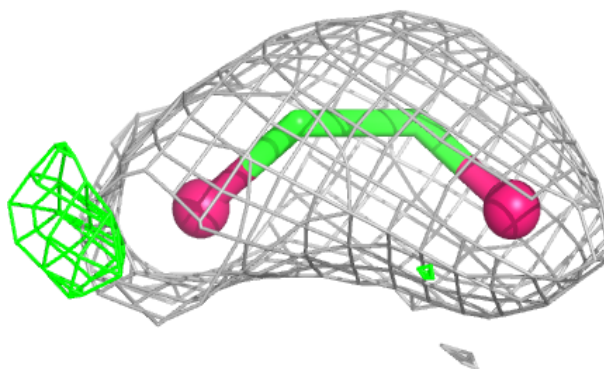


Electron density around EDO G 105:

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

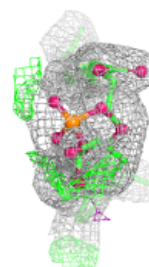
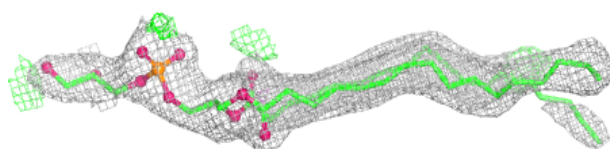
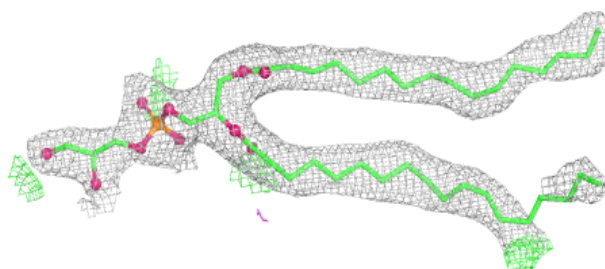
**Electron density around EDO A 609:**

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

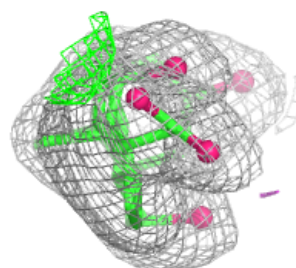
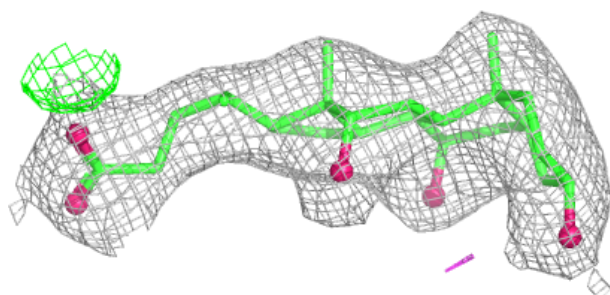
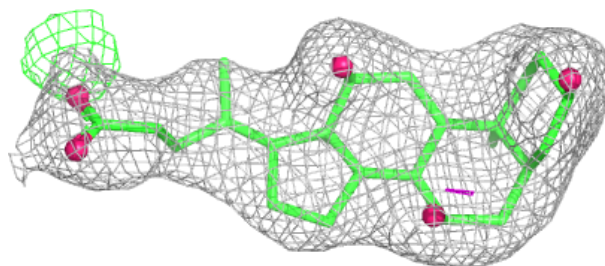


Electron density around PGV C 304:

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

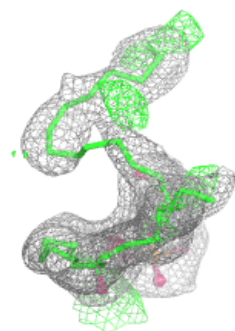
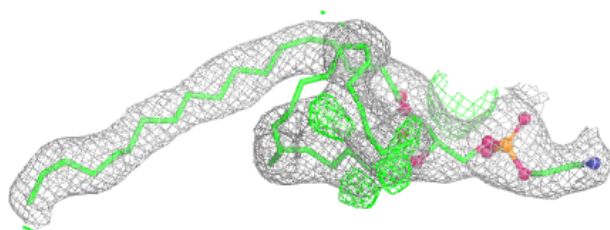
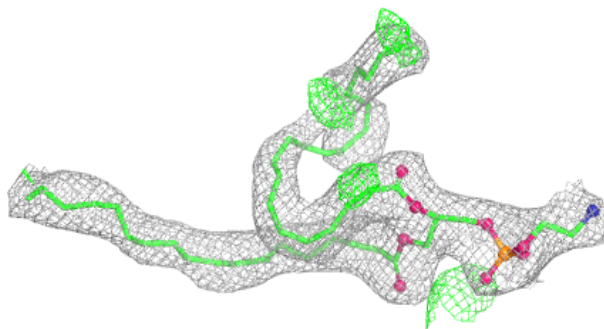
**Electron density around CHD G 107:**

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

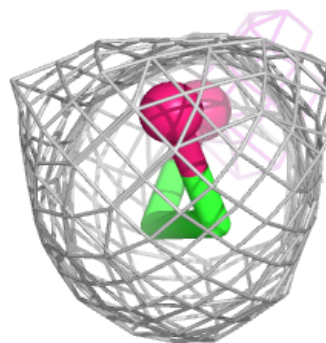
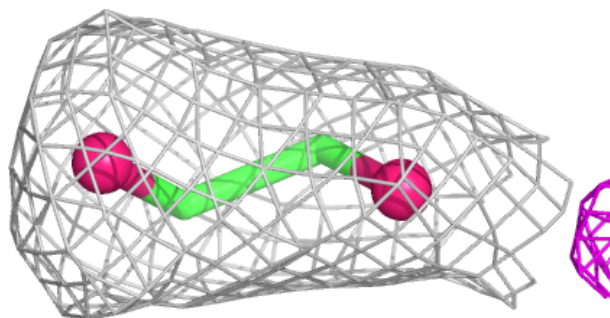
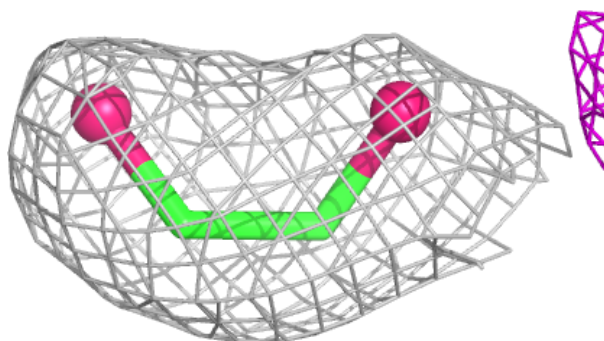


Electron density around PEK G 101:

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

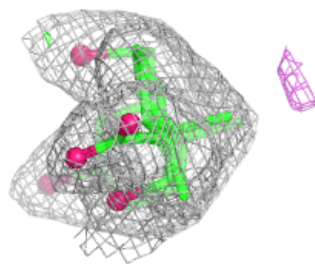
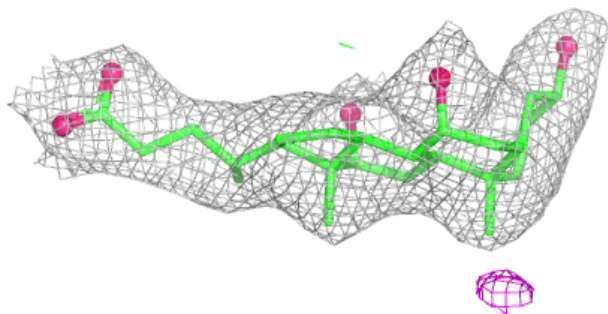
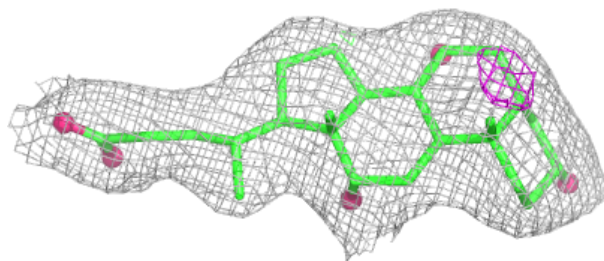
**Electron density around EDO G 102:**

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

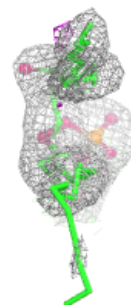
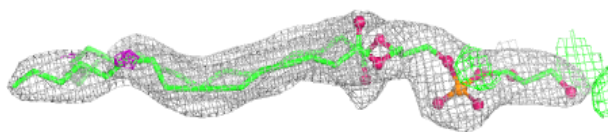
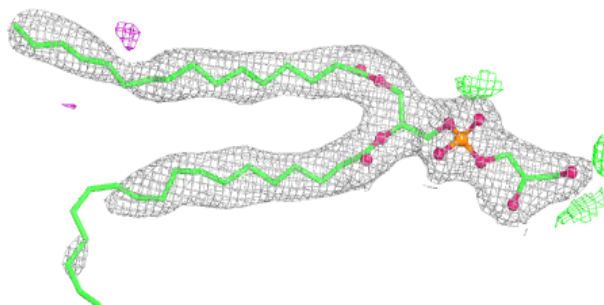


Electron density around CHD P 304:

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

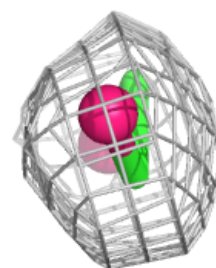
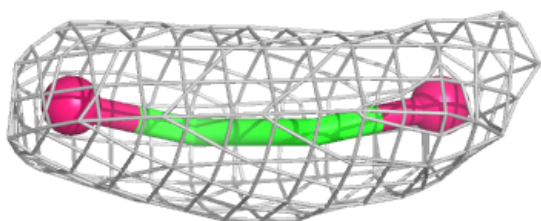
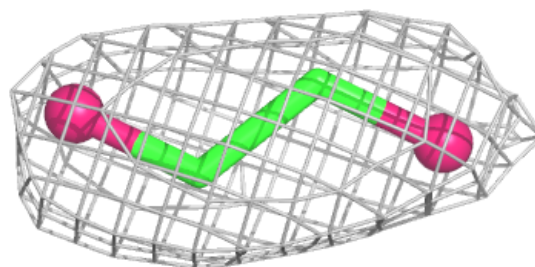
**Electron density around PGV P 306:**

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



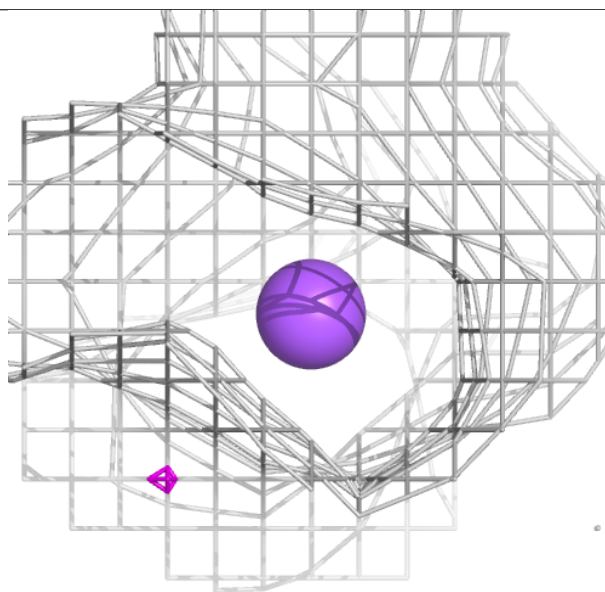
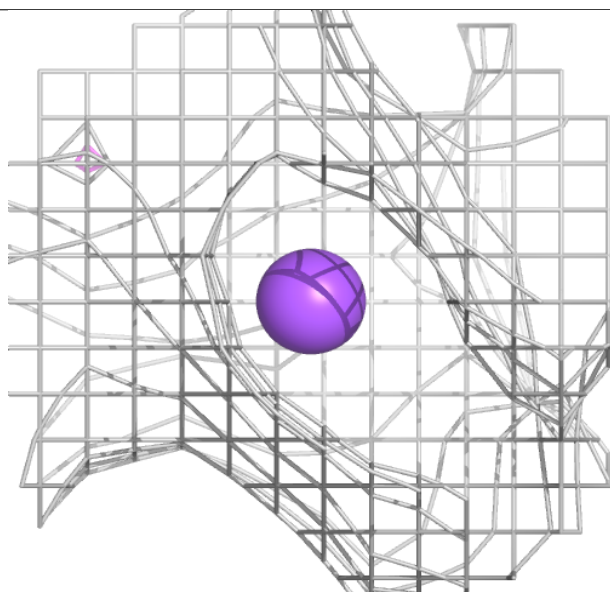
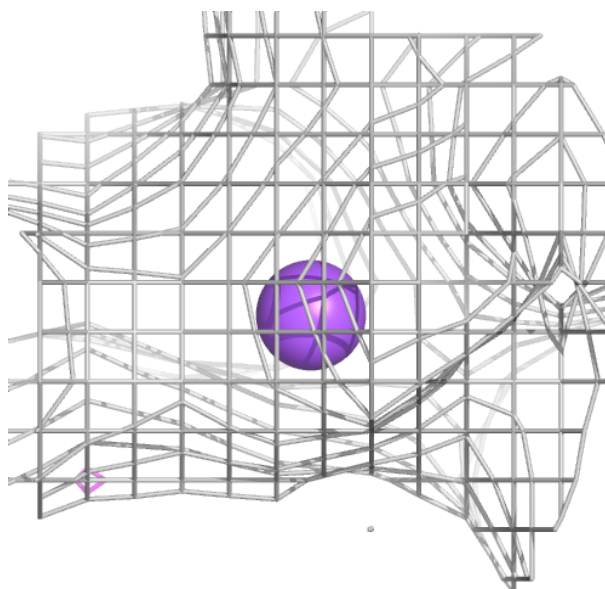
Electron density around EDO P 314:

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



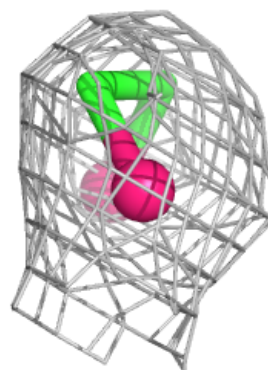
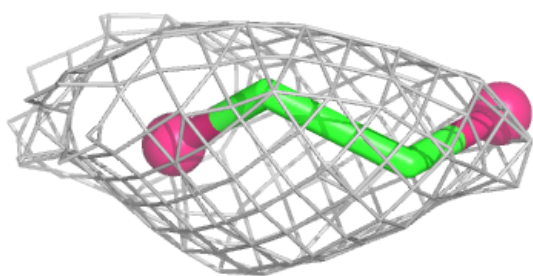
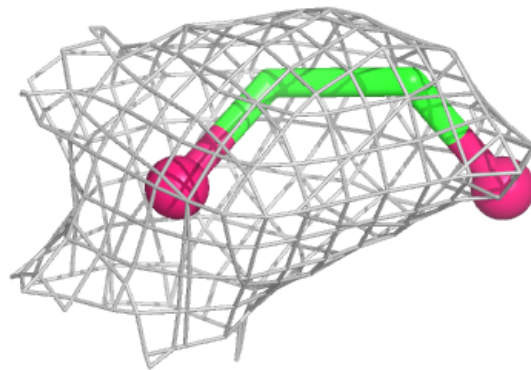
Electron density around NA N 603:

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

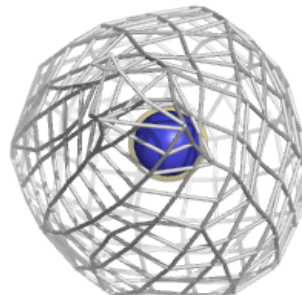
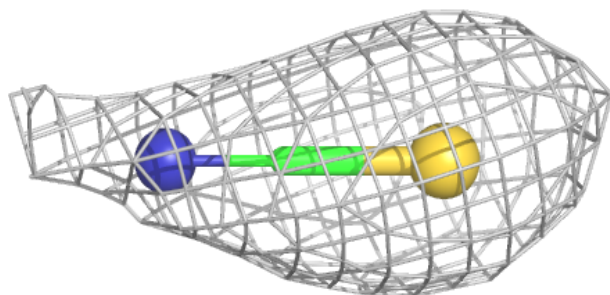
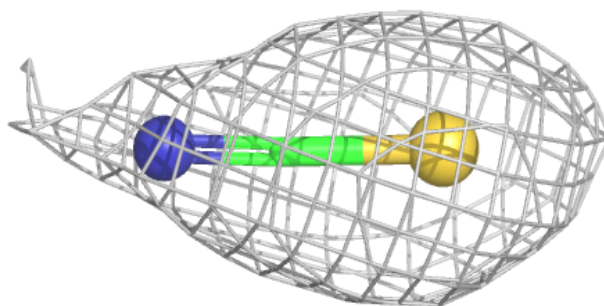


Electron density around EDO F 701:

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

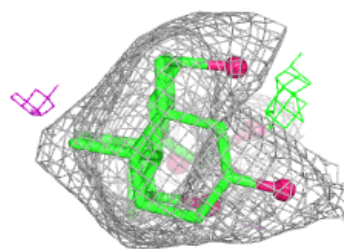
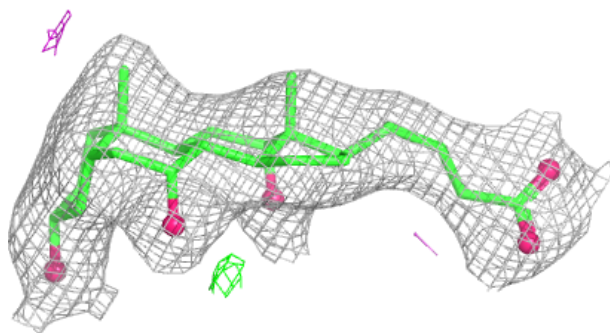
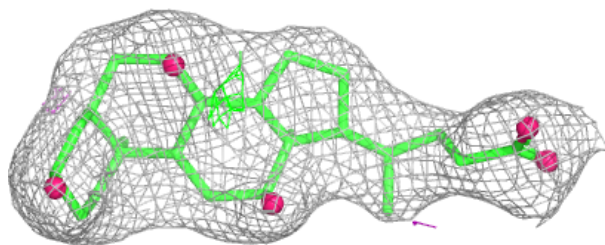
**Electron density around SCN P 312:**

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

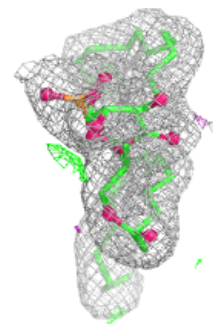
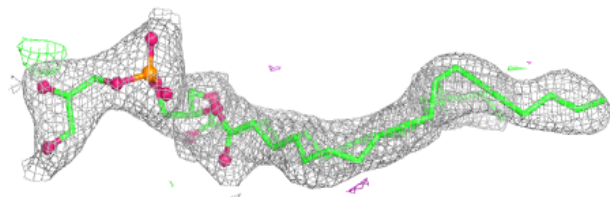
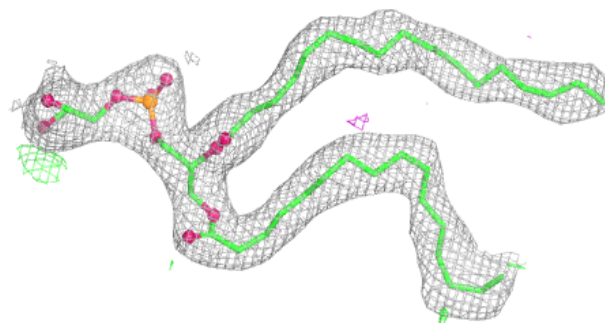


Electron density around CHD T 101:

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

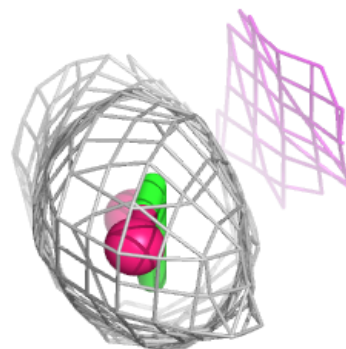
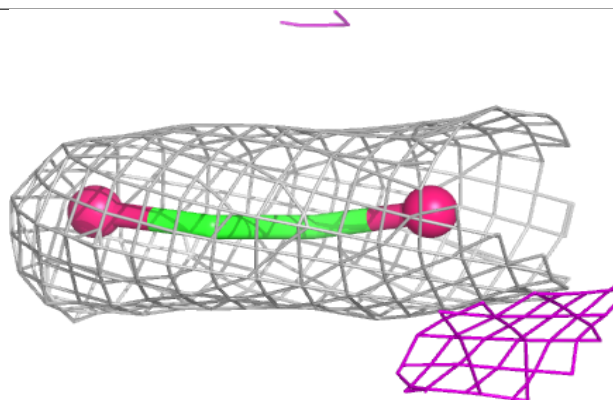
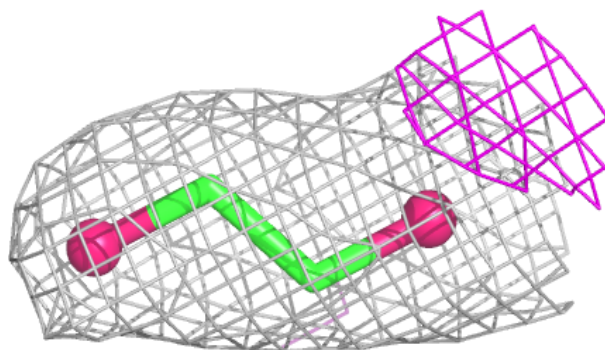
**Electron density around PGV A 605:**

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

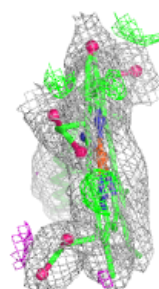
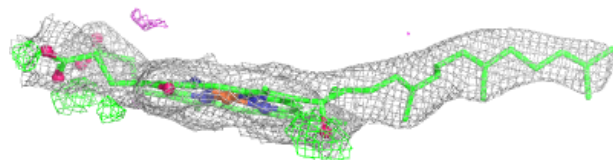
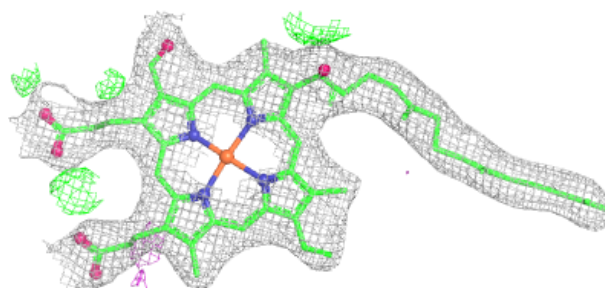


Electron density around EDO C 310:

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

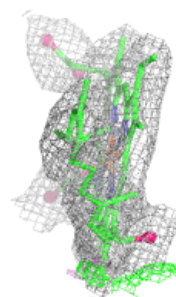
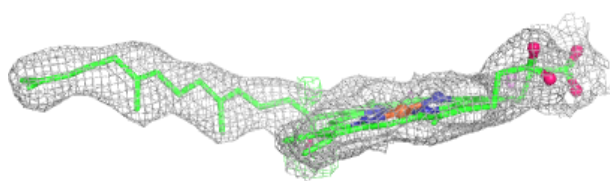
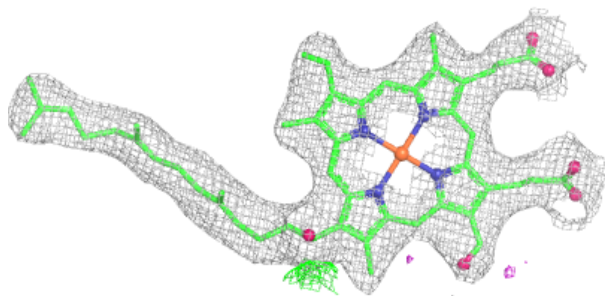
**Electron density around HEA N 608:**

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

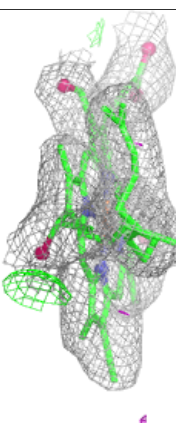
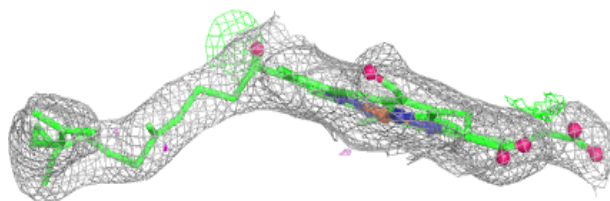
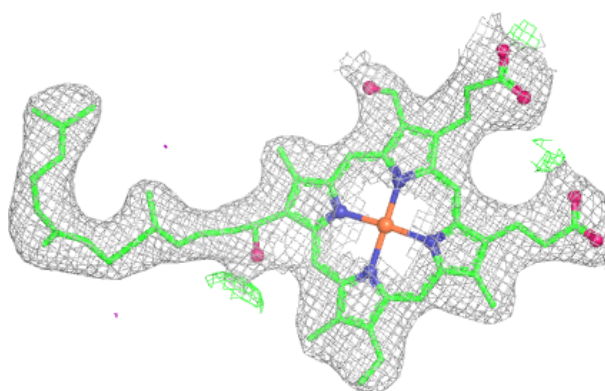


Electron density around HEA A 607:

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

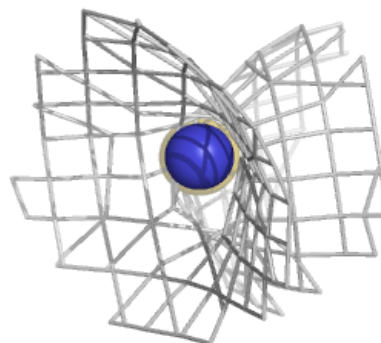
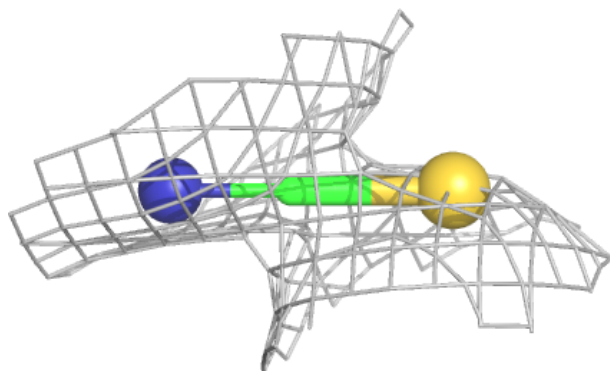
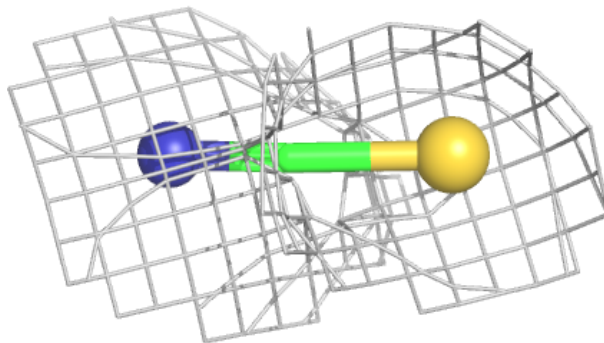
**Electron density around HEA N 607:**

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



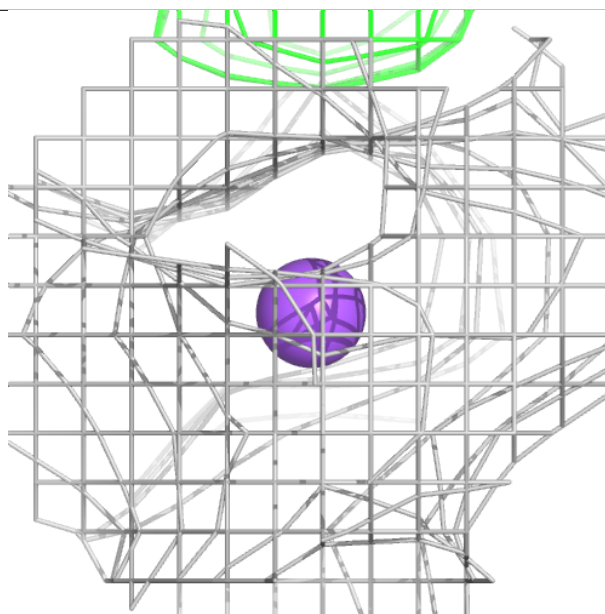
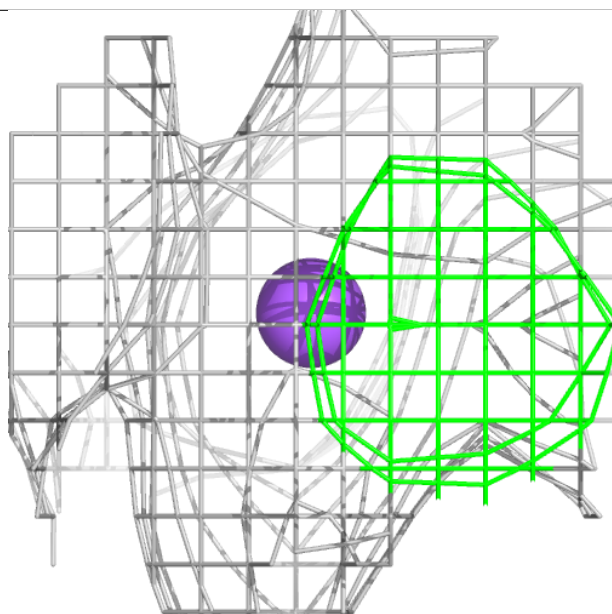
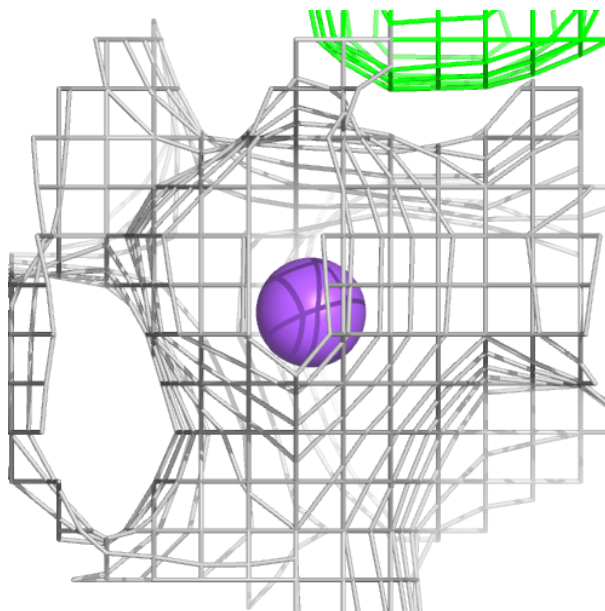
Electron density around SCN A 614:

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



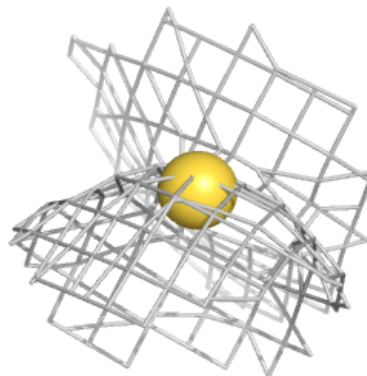
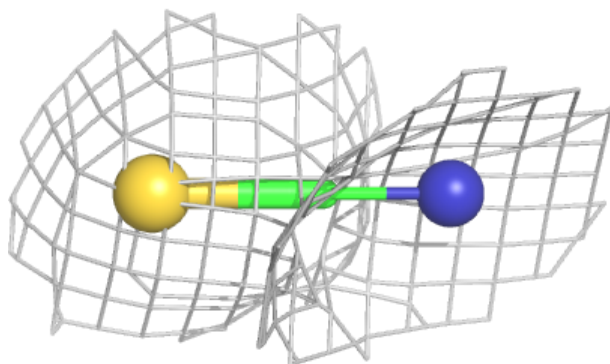
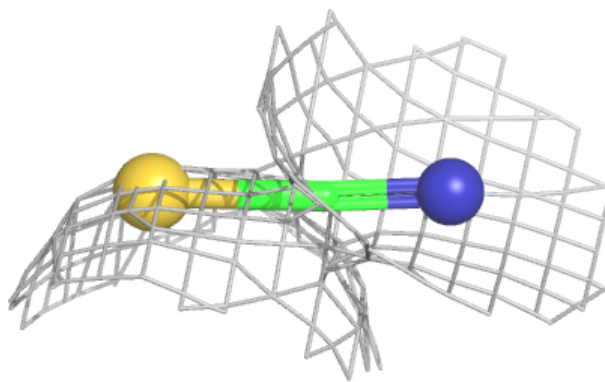
Electron density around NA A 603:

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

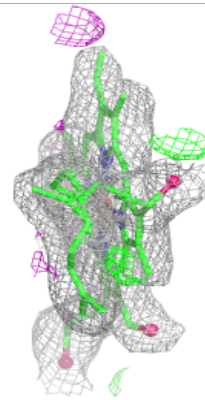
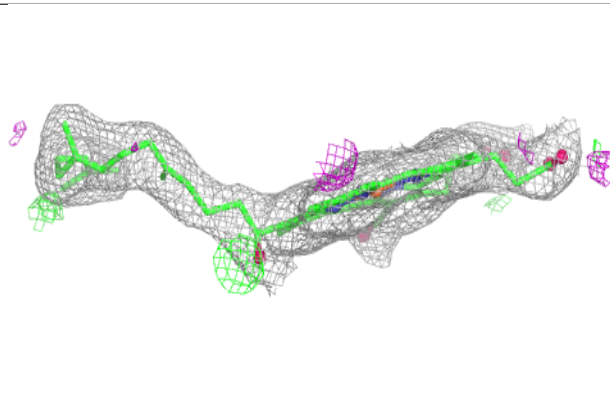
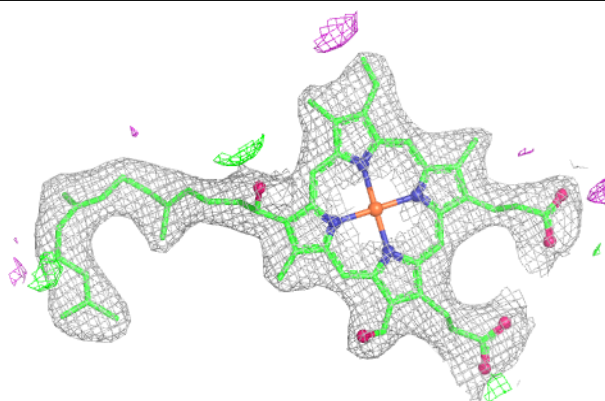


Electron density around SCN N 614:

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

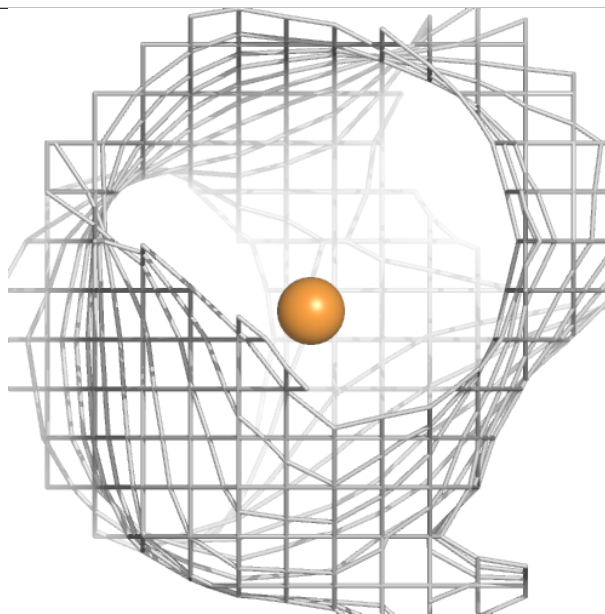
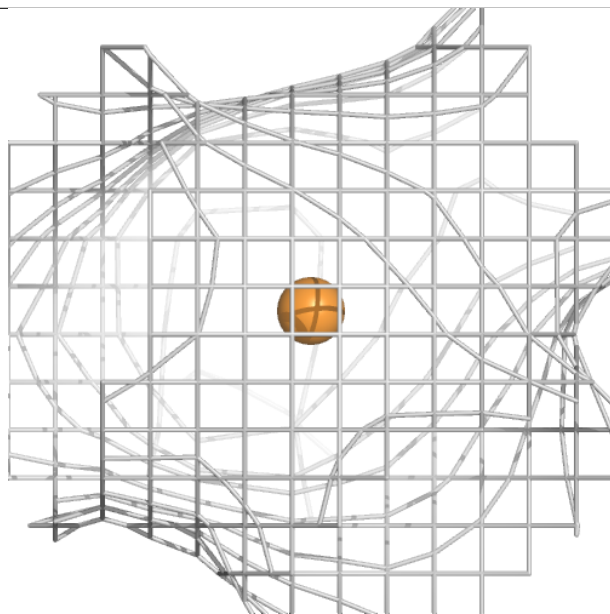
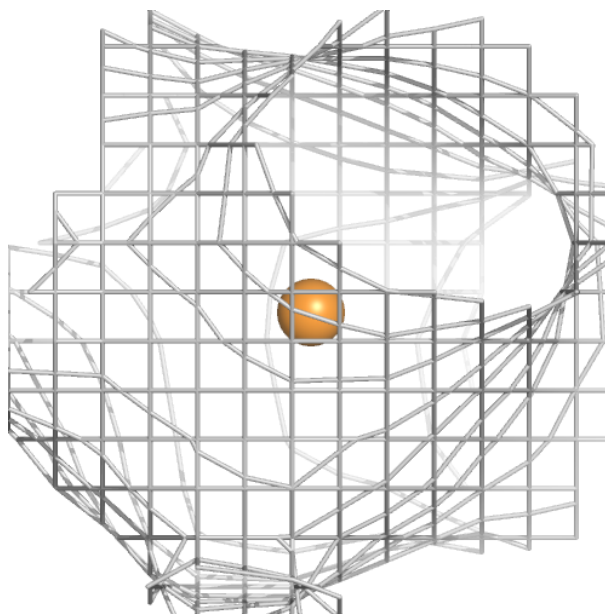
**Electron density around HEA A 606:**

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



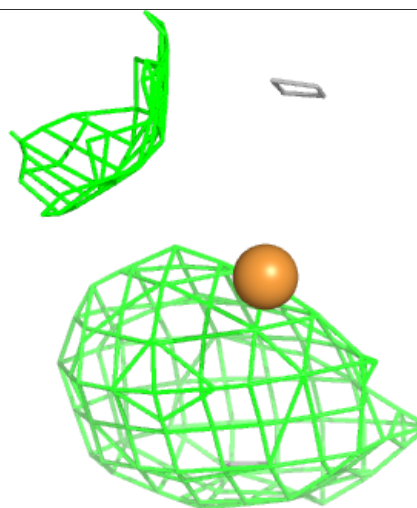
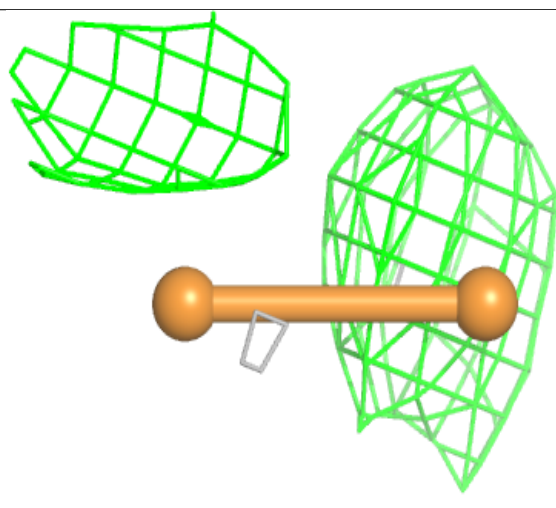
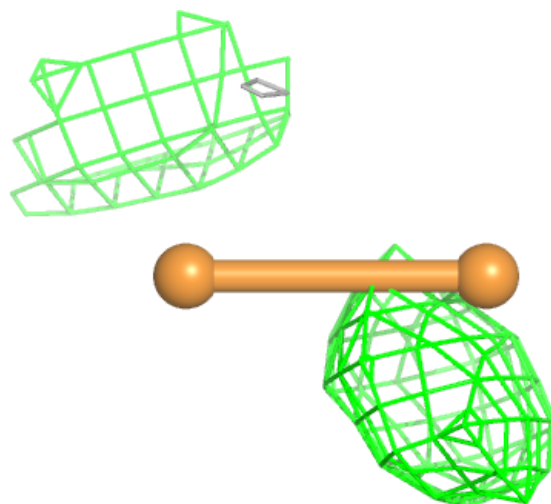
Electron density around CU N 601:

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



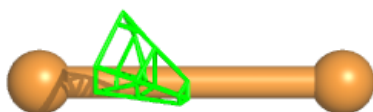
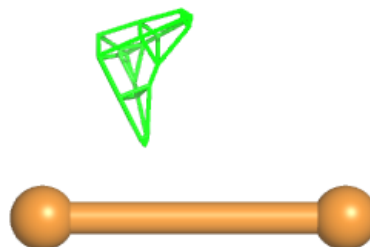
Electron density around CUA B 301:

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



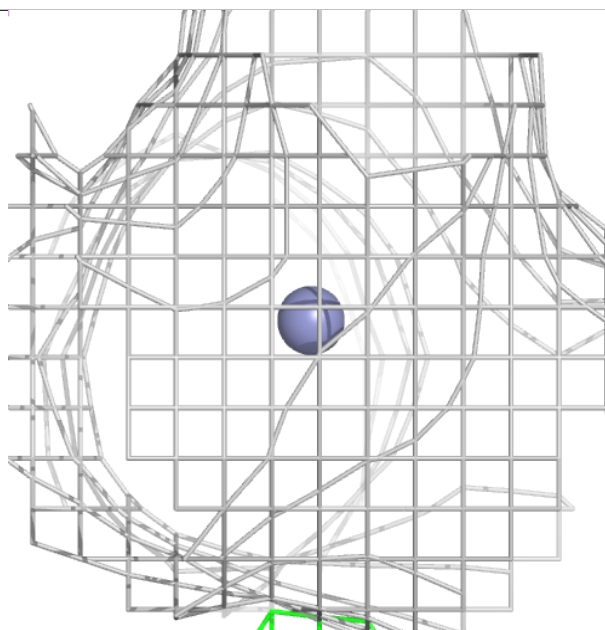
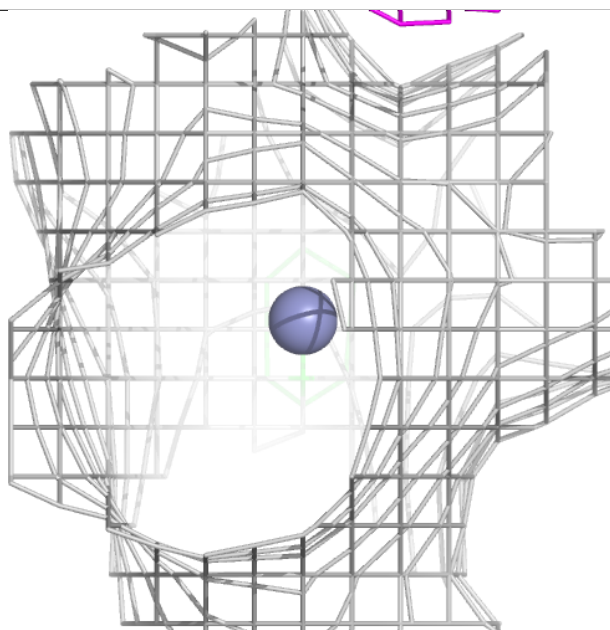
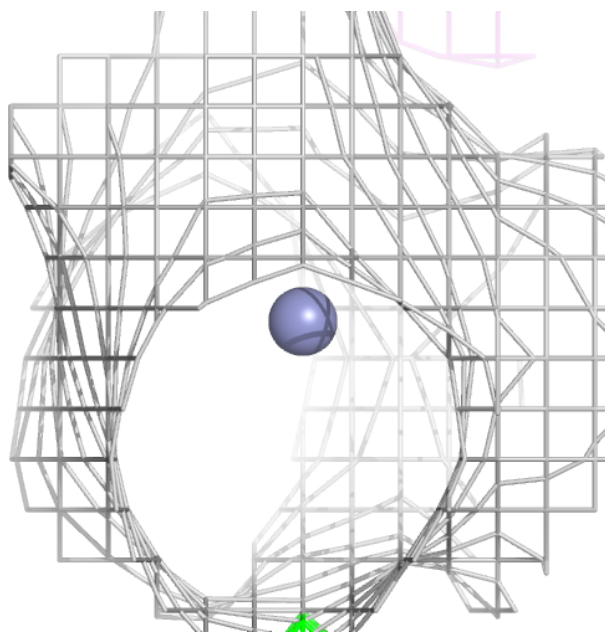
Electron density around CUA O 301:

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



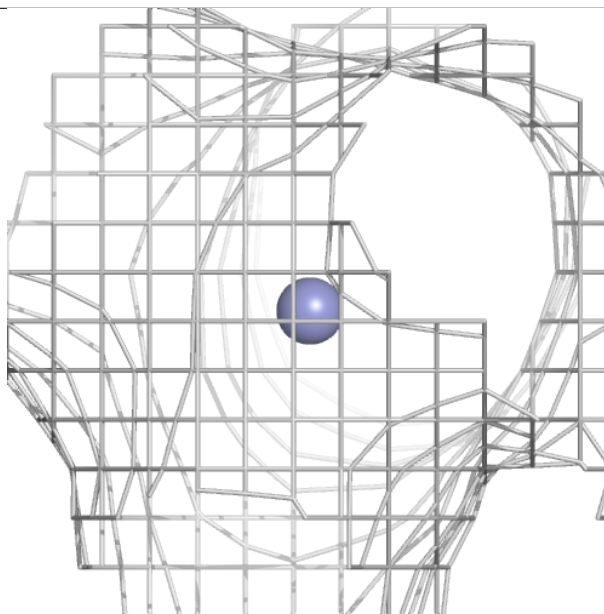
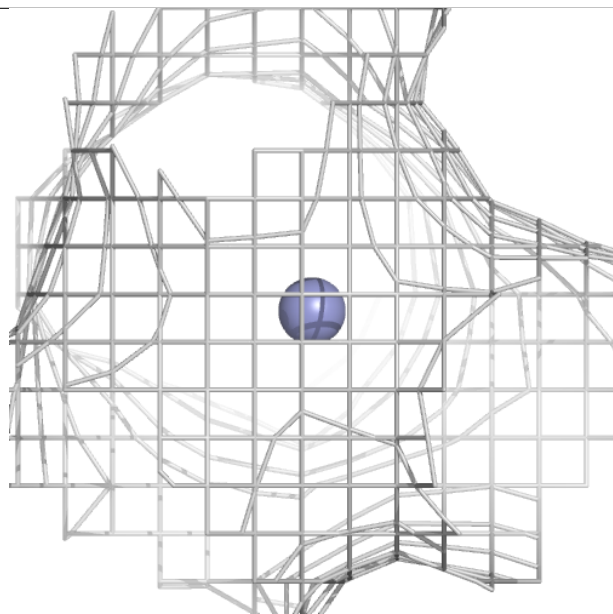
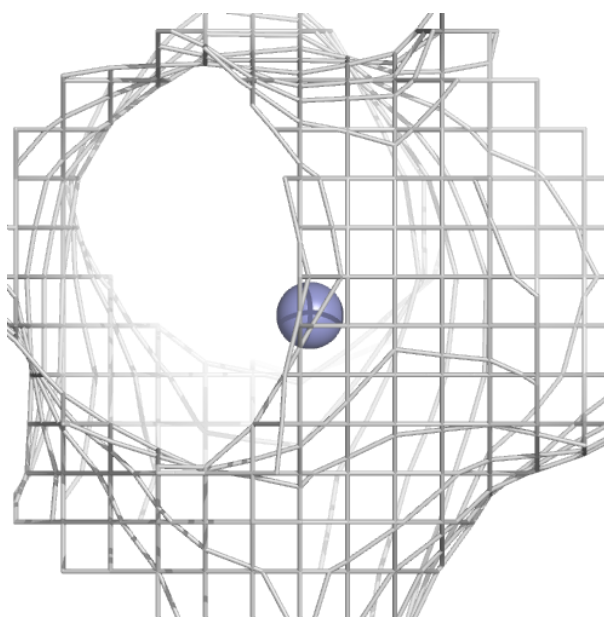
Electron density around ZN F 702:

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



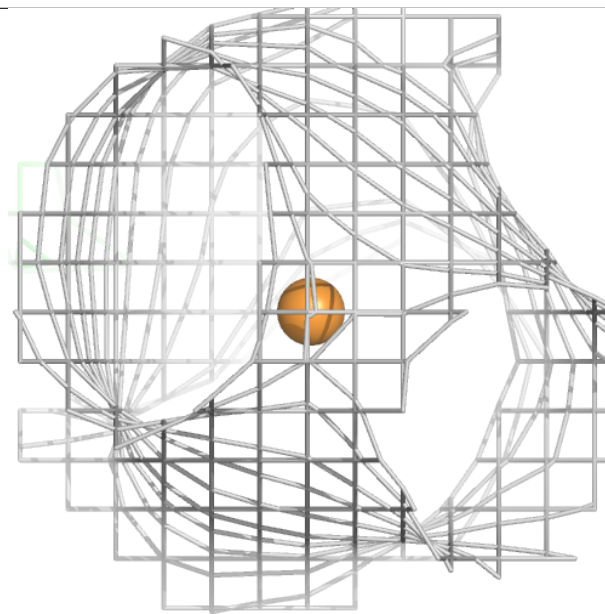
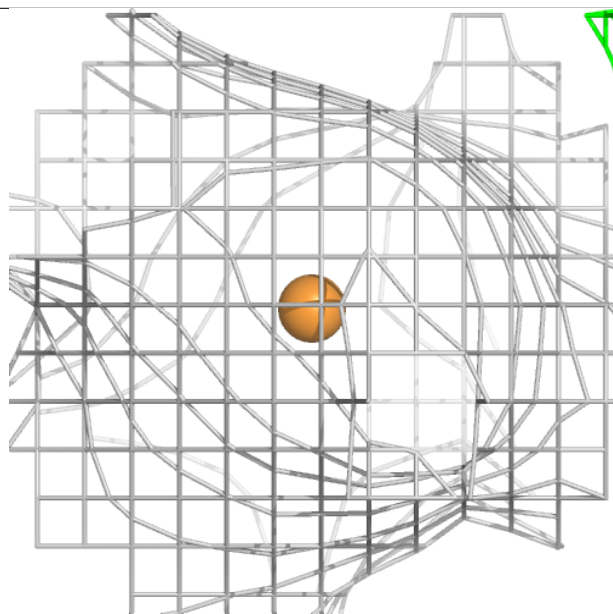
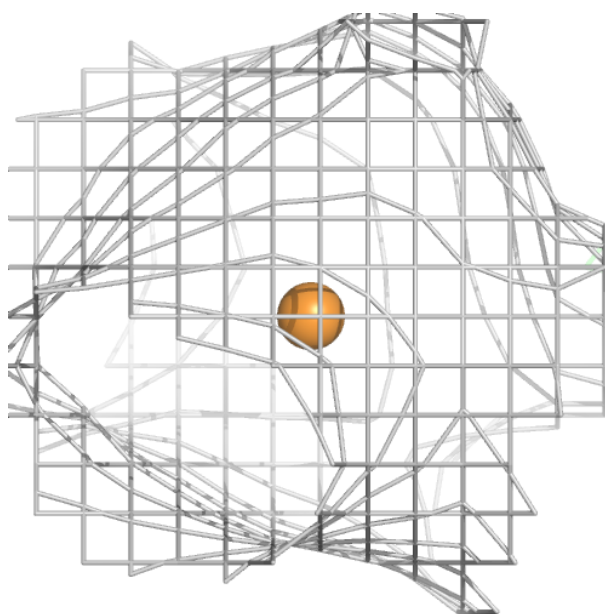
Electron density around ZN S 2502:

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



Electron density around CU 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.