



## Full wwPDB EM Validation Report ⓘ

Dec 19, 2022 – 02:14 pm GMT

PDB ID : 7O0U  
EMDB ID : EMD-12679  
Title : Cryo-EM structure (model\_1a) of the RC-dLH complex from Gemmatimonas phototrophica at 2.4 Å  
Authors : Qian, P.; Koblizek, M.  
Deposited on : 2021-03-27  
Resolution : 2.35 Å (reported)  
Based on initial models : 1LGH, 6ET5, 5Y5S

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

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>.

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

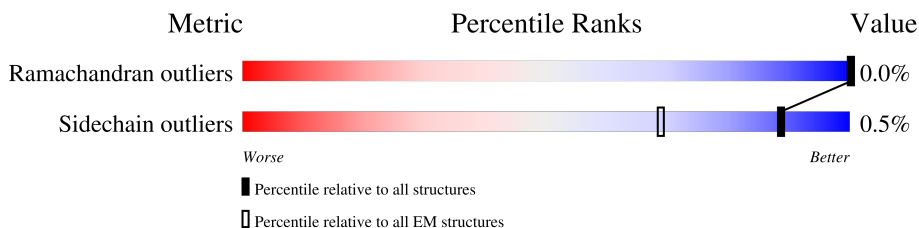
EMDB validation analysis : 0.0.1.dev43  
Mogul : 1.8.4, CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.3

# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:  
*ELECTRON MICROSCOPY*

The reported resolution of this entry is 2.35 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)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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 EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	54	
1	AB	54	
1	AC	54	
1	AD	54	
1	AE	54	
1	AF	54	
1	AG	54	
1	AH	54	
1	AI	54	


























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Mol	Chain	Length	Quality of chain
1	AJ	54	 89% 9%
1	AK	54	 89% 9%
1	AL	54	 89% 9%
1	AM	54	 89% 9%
1	AN	54	 89% 9%
1	AO	54	 89% 9%
1	AP	54	 89% 9%
1	AQ	54	 89% 9%
1	AR	54	 91% 9%
1	AS	54	 91% 9%
1	AT	54	 89% 9%
1	AU	54	 89% 9%
1	AV	54	 89% 9%
1	AW	54	 89% 9%
1	AX	54	 91% 9%
2	BA	44	 89% 11%
2	BB	44	 91% 9%
2	BC	44	 89% 11%
2	BD	44	 91% 9%
2	BE	44	 91% 9%
2	BF	44	 86% 11%
2	BG	44	 89% 11%
2	BH	44	 89% 11%
2	BI	44	 91% 9%
2	BJ	44	 89% 11%

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Mol	Chain	Length	Quality of chain
2	BK	44	 89% 11%
2	BL	44	 89% 11%
2	BM	44	 89% 11%
2	BN	44	 89% 11%
2	BO	44	 86% 11%
2	BP	44	 89% 11%
2	BQ	44	 91% 9%
2	BR	44	 91% 9%
2	BS	44	 91% 9%
2	BT	44	 91% 9%
2	BU	44	 89% 11%
2	BV	44	 91% 9%
2	BW	44	 91% 9%
2	BX	44	 89% 11%
2	ba	44	 89% 11%
2	bb	44	 86% 11%
2	bc	44	 89% 11%
2	bd	44	 89% 11%
2	be	44	 89% 11%
2	bf	44	 89% 11%
2	bg	44	 89% 11%
2	bh	44	 89% 11%
2	bi	44	 89% 11%
2	bj	44	 89% 11%
2	bk	44	 89% 11%

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Mol	Chain	Length	Quality of chain
2	bl	44	89% 11%
2	bm	44	89% 11%
2	bn	44	7% 91% 9%
2	bo	44	89% 11%
2	bp	44	5% 89% 11%
3	C	354	84% 15%
4	C1	202	51% 49%
5	H1	67	91% 7%
6	H2	181	97%
7	L	274	98%
8	M	367	86% 12%
9	aa	71	6% 82% 15%
9	ab	71	83% 15%
9	ac	71	79% 21%
9	ad	71	82% 15%
9	ae	71	6% 83% 15%
9	af	71	82% 15%
9	ag	71	7% 85% 15%
9	ah	71	83% 15%
9	ai	71	83% 15%
9	aj	71	6% 83% 15%
9	ak	71	99%
9	al	71	85% 15%
9	am	71	82% 15%
9	an	71	15% 97%

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Mol	Chain	Length	Quality of chain
9	ao	71	6% 82% 15% 7%
9	ap	71	7% 99% 7%
10	CG	2	100%
10	MG	2	100%

## 2 Entry composition

There are 26 unique types of molecules in this entry. The entry contains 55758 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 LHH-alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	AA	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AB	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AC	48	Total 384	C 256	N 64	O 60	S 4	0	0
1	AD	48	Total 384	C 256	N 64	O 60	S 4	0	0
1	AE	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AF	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AG	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AH	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AI	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AJ	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AK	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AL	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AM	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AN	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AO	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AP	49	Total 391	C 261	N 65	O 61	S 4	0	0
1	AQ	49	Total 391	C 261	N 65	O 61	S 4	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AR	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AS	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AT	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AU	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AV	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AW	49	Total	C	N	O	S	0	0
			391	261	65	61	4		
1	AX	49	Total	C	N	O	S	0	0
			391	261	65	61	4		

- Molecule 2 is a protein called Light-harvesting protein B:885 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	BA	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	BB	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
2	BC	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	BD	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
2	BE	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
2	BF	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	BG	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	BH	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	BI	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
2	BJ	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	BK	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	BL	39	Total	C	N	O	S	0	0
			323	213	55	53	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	BM	39	323	213	55	53	2	0	0
2	BN	39	323	213	55	53	2	0	0
2	BO	39	323	213	55	53	2	0	0
2	BP	39	323	213	55	53	2	0	0
2	BQ	40	327	215	56	54	2	0	0
2	BR	40	327	215	56	54	2	0	0
2	BS	40	327	215	56	54	2	0	0
2	BT	40	327	215	56	54	2	0	0
2	BU	39	323	213	55	53	2	0	0
2	BV	40	327	215	56	54	2	0	0
2	BW	40	327	215	56	54	2	0	0
2	BX	39	323	213	55	53	2	0	0
2	ba	39	323	213	55	53	2	0	0
2	bb	39	323	213	55	53	2	0	0
2	bc	39	323	213	55	53	2	0	0
2	bd	39	323	213	55	53	2	0	0
2	be	39	323	213	55	53	2	0	0
2	bf	39	323	213	55	53	2	0	0
2	bg	39	323	213	55	53	2	0	0
2	bh	39	323	213	55	53	2	0	0
2	bi	39	323	213	55	53	2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	bj	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	bk	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	bl	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	bm	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	bn	40	Total	C	N	O	S	0	0
			327	215	56	54	2		
2	bo	39	Total	C	N	O	S	0	0
			323	213	55	53	2		
2	bp	39	Total	C	N	O	S	0	0
			323	213	55	53	2		

- Molecule 3 is a protein called MULTIHEME\_CYTC domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	301	Total	C	N	O	S	0	0
			2337	1470	421	427	19		

- Molecule 4 is a protein called RC-S.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	C1	103	Total	C	N	O	S	0	0
			806	506	151	145	4		

- Molecule 5 is a protein called PRCH domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	H1	62	Total	C	N	O	S	0	0
			522	343	89	88	2		

- Molecule 6 is a protein called RC-Hc.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	H2	176	Total	C	N	O	S	0	0
			1371	872	234	261	4		

- Molecule 7 is a protein called Photosynthetic reaction center L subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	L	273	Total	C	N	O	S	0	0
			2165	1457	351	347	10		

- Molecule 8 is a protein called RC-M.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	M	323	Total	C	N	O	S	0	0
			2611	1741	427	432	11		

- Molecule 9 is a protein called LHC domain-containing protein.

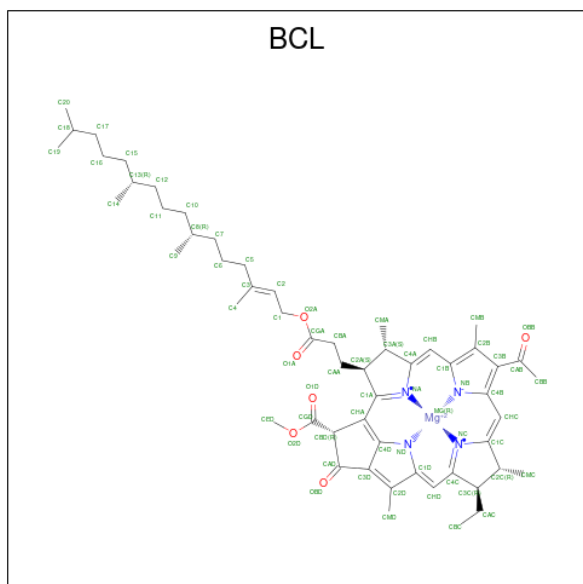
Mol	Chain	Residues	Atoms					AltConf	Trace
9	aa	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ab	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ac	56	Total	C	N	O	S	0	0
			443	290	77	73	3		
9	ad	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ae	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	af	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ag	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ah	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ai	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	aj	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ak	71	Total	C	N	O	S	0	0
			542	352	95	91	4		
9	al	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	am	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	an	71	Total	C	N	O	S	0	0
			542	352	95	91	4		
9	ao	60	Total	C	N	O	S	0	0
			465	304	81	77	3		
9	ap	71	Total	C	N	O	S	0	0
			543	352	95	92	4		

- Molecule 10 is an oligosaccharide called alpha-L-rhamnopyranose-(1-4)-alpha-D-mannopyranose.



Mol	Chain	Residues	Atoms			AltConf	Trace
10	MG	2	Total	C	O	0	0
			21	12	9		
10	CG	2	Total	C	O	0	0
			21	12	9		

- Molecule 11 is BACTERIOCHLOROPHYLL A (three-letter code: BCL) (formula:  $C_{55}H_{74}MgN_4O_6$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
11	AA	1	Total	C	Mg	N	O	0
			132	110	2	8	12	
11	AA	1	Total	C	Mg	N	O	0
			132	110	2	8	12	
11	AB	1	Total	C	Mg	N	O	0
			198	165	3	12	18	
11	AB	1	Total	C	Mg	N	O	0
			198	165	3	12	18	
11	AB	1	Total	C	Mg	N	O	0
			198	165	3	12	18	
11	AC	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
11	AD	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AD	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AE	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AE	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AF	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AF	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AG	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AG	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AH	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AH	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AI	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AI	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AJ	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AJ	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AK	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AK	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AL	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AL	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AM	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AM	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AN	1	Total 198	C 165	Mg 3	N 12	O 18	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
11	AN	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AN	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AO	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	AP	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AP	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AQ	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AQ	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AR	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AR	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AS	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AS	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AS	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AT	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	AU	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AU	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AV	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AV	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AV	1	Total 198	C 165	Mg 3	N 12	O 18	0
11	AW	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AW	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	AX	1	Total 66	C 55	Mg 1	N 4	O 6	0

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Mol	Chain	Residues	Atoms					AltConf
11	BA	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BB	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BC	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BD	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BE	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BF	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BG	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BH	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BI	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BJ	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BK	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BL	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BM	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BN	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BO	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BP	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BQ	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BR	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BS	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BT	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BU	1	Total 66	C 55	Mg 1	N 4	O 6	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
11	BV	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BW	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	BX	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	L	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	L	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	M	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	M	1	Total 132	C 110	Mg 2	N 8	O 12	0
11	aa	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ab	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ac	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ad	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ae	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	af	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ag	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ah	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ai	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	aj	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ak	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	al	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	am	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	an	1	Total 66	C 55	Mg 1	N 4	O 6	0

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Mol	Chain	Residues	Atoms					AltConf
11	ao	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ap	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	ba	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bb	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bc	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bd	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	be	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bf	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bg	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bh	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bi	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bj	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bk	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bl	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bm	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bn	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bo	1	Total 66	C 55	Mg 1	N 4	O 6	0
11	bp	1	Total 66	C 55	Mg 1	N 4	O 6	0

- Molecule 12 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula:  $C_{24}H_{46}O_{11}$ ).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	AA	1	35	24	11	0
12	AB	1	35	24	11	0
12	AD	1	35	24	11	0
12	AE	1	70	48	22	0
12	AE	1	70	48	22	0
12	AG	1	35	24	11	0
12	AH	1	70	48	22	0
12	AH	1	70	48	22	0
12	AI	1	35	24	11	0
12	AJ	1	35	24	11	0
12	AK	1	70	48	22	0
12	AK	1	70	48	22	0
12	AL	1	70	48	22	0
12	AL	1	70	48	22	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	AM	1	35	24	11	0
12	AN	1	70	48	22	0
12	AN	1	70	48	22	0
12	AP	1	35	24	11	0
12	AQ	1	35	24	11	0
12	AR	1	35	24	11	0
12	AS	1	35	24	11	0
12	AT	1	70	48	22	0
12	AT	1	70	48	22	0
12	AV	1	35	24	11	0
12	AW	1	35	24	11	0
12	BA	1	140	96	44	0
12	BA	1	140	96	44	0
12	BA	1	140	96	44	0
12	BA	1	140	96	44	0
12	BB	1	105	72	33	0
12	BB	1	105	72	33	0
12	BB	1	105	72	33	0
12	BC	1	105	72	33	0
12	BC	1	105	72	33	0
12	BC	1	105	72	33	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	BD	1	140	96	44	0
12	BD	1	140	96	44	0
12	BD	1	140	96	44	0
12	BD	1	140	96	44	0
12	BE	1	70	48	22	0
12	BE	1	70	48	22	0
12	BF	1	105	72	33	0
12	BF	1	105	72	33	0
12	BF	1	105	72	33	0
12	BG	1	105	72	33	0
12	BG	1	105	72	33	0
12	BG	1	105	72	33	0
12	BH	1	105	72	33	0
12	BH	1	105	72	33	0
12	BH	1	105	72	33	0
12	BI	1	140	96	44	0
12	BI	1	140	96	44	0
12	BI	1	140	96	44	0
12	BI	1	140	96	44	0
12	BJ	1	70	48	22	0
12	BJ	1	70	48	22	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	BK	1	105	72	33	0
12	BK	1	105	72	33	0
12	BK	1	105	72	33	0
12	BL	1	140	96	44	0
12	BL	1	140	96	44	0
12	BL	1	140	96	44	0
12	BL	1	140	96	44	0
12	BM	1	105	72	33	0
12	BM	1	105	72	33	0
12	BM	1	105	72	33	0
12	BN	1	105	72	33	0
12	BN	1	105	72	33	0
12	BN	1	105	72	33	0
12	BO	1	105	72	33	0
12	BO	1	105	72	33	0
12	BO	1	105	72	33	0
12	BP	1	105	72	33	0
12	BP	1	105	72	33	0
12	BP	1	105	72	33	0
12	BQ	1	70	48	22	0
12	BQ	1	70	48	22	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	BR	1	105	72	33	0
12	BR	1	105	72	33	0
12	BR	1	105	72	33	0
12	BS	1	140	96	44	0
12	BS	1	140	96	44	0
12	BS	1	140	96	44	0
12	BS	1	140	96	44	0
12	BT	1	105	72	33	0
12	BT	1	105	72	33	0
12	BT	1	105	72	33	0
12	BU	1	105	72	33	0
12	BU	1	105	72	33	0
12	BU	1	105	72	33	0
12	BV	1	105	72	33	0
12	BV	1	105	72	33	0
12	BV	1	105	72	33	0
12	BW	1	70	48	22	0
12	BW	1	70	48	22	0
12	BX	1	70	48	22	0
12	BX	1	70	48	22	0
12	H2	1	35	24	11	0

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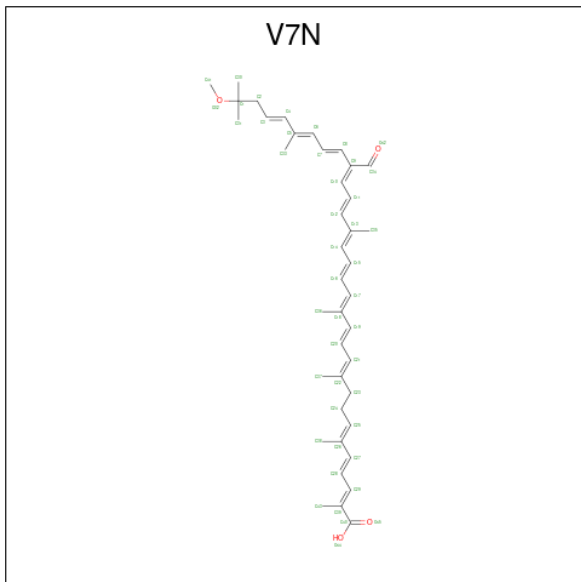
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	L	1	175	120	55	0
12	L	1	175	120	55	0
12	L	1	175	120	55	0
12	L	1	175	120	55	0
12	L	1	175	120	55	0
12	M	1	35	24	11	0
12	ac	1	35	24	11	0
12	ba	1	35	24	11	0
12	bb	1	35	24	11	0
12	bc	1	35	24	11	0
12	bd	1	35	24	11	0
12	be	1	70	48	22	0
12	be	1	70	48	22	0
12	bf	1	35	24	11	0
12	bg	1	35	24	11	0
12	bi	1	70	48	22	0
12	bi	1	70	48	22	0
12	bj	1	35	24	11	0
12	bk	1	35	24	11	0
12	bl	1	35	24	11	0
12	bm	1	35	24	11	0

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Mol	Chain	Residues	Atoms			AltConf
12	bn	1	Total	C	O	0
			35	24	11	
12	bo	1	Total	C	O	0
			70	48	22	
12	bo	1	Total	C	O	0
			70	48	22	
12	bp	1	Total	C	O	0
			35	24	11	

- Molecule 13 is (2 {E},4 {E},6 {E},10 {E},12 {E},14 {E},16 {E},18 {E},20 {E},22 {Z},24 {E},26 {E},28 {E})-23-methanoyl-31-methoxy-2,6,10,14,19,27,31-heptamethyl-dotriaconta-2,4,6,10,12,14,16,18,20,22,24,26,28-tridecaenoic acid (three-letter code: V7N) (formula: C<sub>41</sub>H<sub>54</sub>O<sub>4</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
13	AB	1	Total	C	O	0
			45	41	4	
13	AE	1	Total	C	O	0
			90	82	8	
13	AE	1	Total	C	O	0
			90	82	8	
13	AH	1	Total	C	O	0
			45	41	4	
13	AQ	1	Total	C	O	0
			45	41	4	
13	AT	1	Total	C	O	0
			45	41	4	

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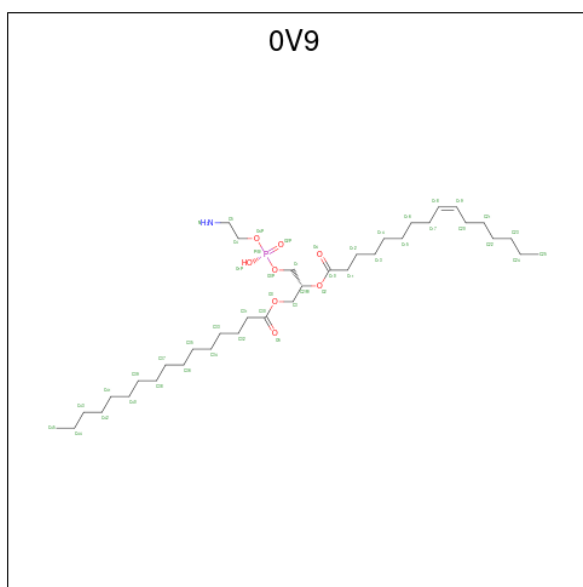
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
13	AW	1	45	41	4	0
13	BB	1	45	41	4	0
13	BC	1	45	41	4	0
13	BE	1	45	41	4	0
13	BG	1	45	41	4	0
13	BH	1	45	41	4	0
13	BJ	1	45	41	4	0
13	BK	1	45	41	4	0
13	BL	1	45	41	4	0
13	BM	1	45	41	4	0
13	BN	1	45	41	4	0
13	BO	1	45	41	4	0
13	BP	1	45	41	4	0
13	BQ	1	45	41	4	0
13	BS	1	45	41	4	0
13	BT	1	45	41	4	0
13	BV	1	45	41	4	0
13	BW	1	45	41	4	0
13	af	1	45	41	4	0
13	aj	1	45	41	4	0
13	ba	1	45	41	4	0

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Mol	Chain	Residues	Atoms			AltConf
13	bb	1	Total	C	O	0
			45	41	4	
13	bc	1	Total	C	O	0
			45	41	4	
13	bd	1	Total	C	O	0
			45	41	4	
13	be	1	Total	C	O	0
			45	41	4	
13	bf	1	Total	C	O	0
			45	41	4	
13	bh	1	Total	C	O	0
			45	41	4	
13	bi	1	Total	C	O	0
			45	41	4	
13	bj	1	Total	C	O	0
			45	41	4	
13	bl	1	Total	C	O	0
			45	41	4	
13	bm	1	Total	C	O	0
			45	41	4	
13	bn	1	Total	C	O	0
			45	41	4	
13	bo	1	Total	C	O	0
			45	41	4	
13	bp	1	Total	C	O	0
			45	41	4	

- Molecule 14 is (19R,22S)-25-amino-22-hydroxy-22-oxido-16-oxo-17,21,23-trioxa-22lambda da 5 -phosphapentacosan-19-yl (9Z)-hexadec-9-enoate (three-letter code: 0V9) (formula: C<sub>37</sub>H<sub>72</sub>NO<sub>8</sub>P).



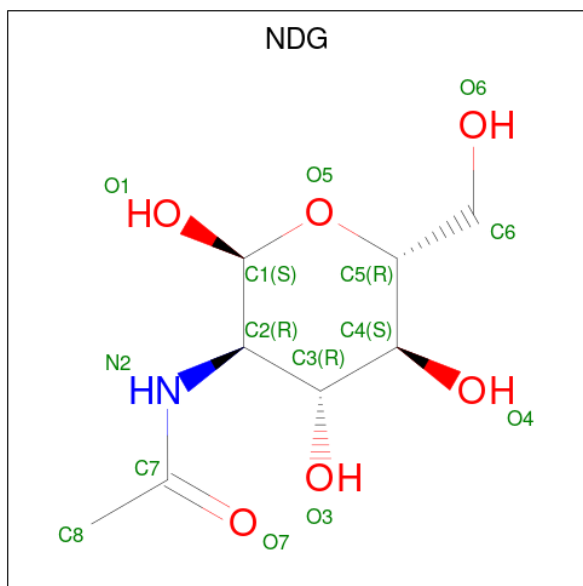
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
14	AJ	1	45	35	1	8	1	0
14	AQ	1	45	35	1	8	1	0
14	H1	1	45	35	1	8	1	0
14	L	1	45	35	1	8	1	0
14	aj	1	45	35	1	8	1	0
14	bb	1	90	70	2	16	2	0
14	bb	1	90	70	2	16	2	0
14	bc	1	45	35	1	8	1	0
14	bd	1	45	35	1	8	1	0
14	be	1	45	35	1	8	1	0
14	bf	1	45	35	1	8	1	0
14	bi	1	90	70	2	16	2	0
14	bi	1	90	70	2	16	2	0
14	bj	1	45	35	1	8	1	0

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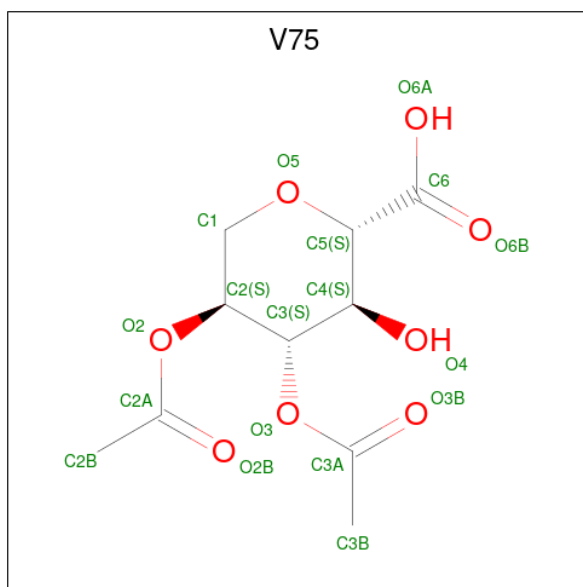


(formula: C<sub>8</sub>H<sub>15</sub>NO<sub>6</sub>).



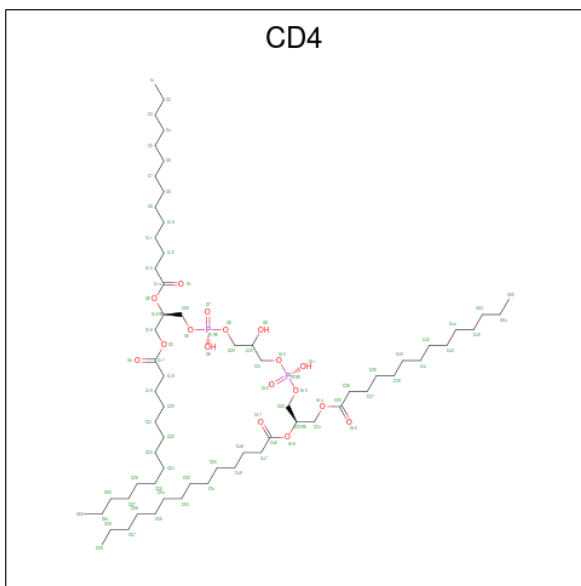
Mol	Chain	Residues	Atoms				AltConf
16	C	1	Total	C	N	O	0
			14	8	1	5	
16	C1	1	Total	C	N	O	0
			14	8	1	5	

- Molecule 17 is (2 {S},3 {S},4 {S},5 {S})-4,5-diacetyloxy-3-oxidanyl-oxane-2-carboxylic acid (three-letter code: V75) (formula: C<sub>10</sub>H<sub>14</sub>O<sub>8</sub>).



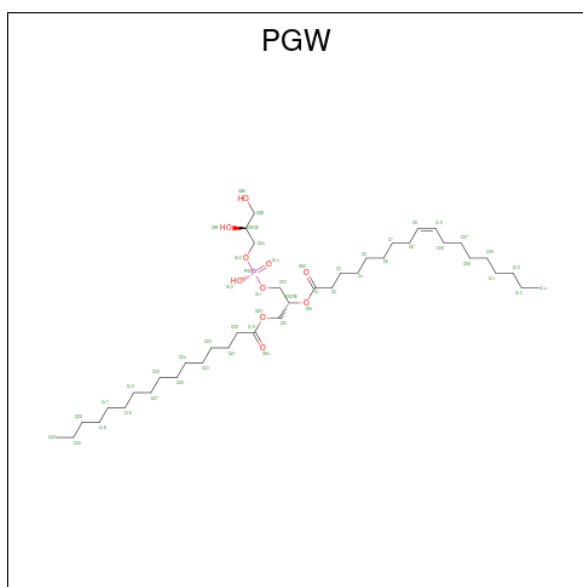
Mol	Chain	Residues	Atoms			AltConf
17	C	1	Total	C	O	0
			18	10	8	
17	M	1	Total	C	O	0
			18	10	8	

- Molecule 18 is (2R,5R,11R,14R)-5,8,11-trihydroxy-5,11-dioxido-17-oxo-2,14-bis(tetradecanoyloxy)-4,6,10,12,16-pentaoxa-5,11-diphosphatriacont-1-yl tetradecanoate (three-letter code: CD4) (formula:  $C_{65}H_{126}O_{17}P_2$ ).



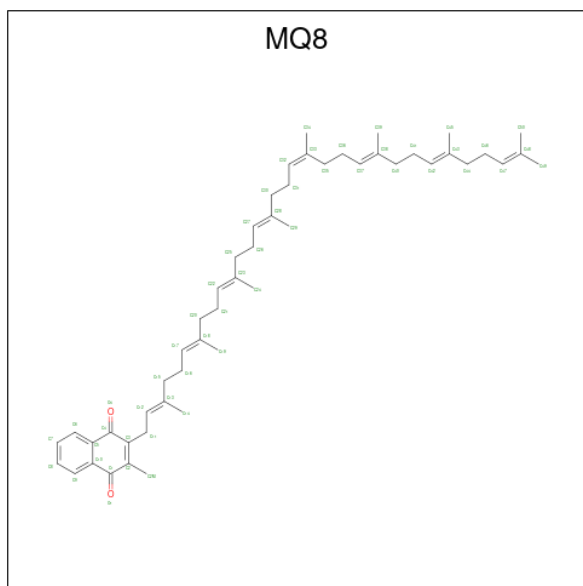
Mol	Chain	Residues	Atoms				AltConf
18	H1	1	Total	C	O	P	0
			84	65	17	2	
18	M	1	Total	C	O	P	0
			168	130	34	4	
18	M	1	Total	C	O	P	0
			168	130	34	4	
18	ad	1	Total	C	O	P	0
			84	65	17	2	
18	ae	1	Total	C	O	P	0
			84	65	17	2	
18	ag	1	Total	C	O	P	0
			84	65	17	2	

- Molecule 19 is (1R)-2-[[[(S)-{[(2S)-2,3-dihydroxypropyl]oxy}(hydroxy)phosphoryl]oxy}-1-[hexadecanoyloxy)methyl]ethyl (9Z)-octadec-9-enoate (three-letter code: PGW) (formula:  $C_{40}H_{77}O_{10}P$ ).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
19	H1	1	51	40	10	1	0

- Molecule 20 is MENAQUINONE 8 (three-letter code: MQ8) (formula:  $C_{51}H_{72}O_2$ ) (labeled as "Ligand of Interest" by depositor).



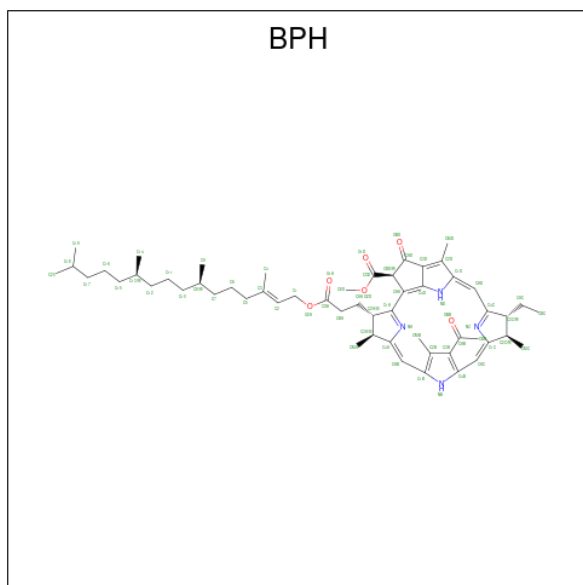
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
20	L	1	53	51	2	0
20	M	1	53	51	2	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
20	ao	1	53	51	2	0

- Molecule 21 is BACTERIOPHEOPHYTIN A (three-letter code: BPH) (formula:  $C_{55}H_{76}N_4O_6$ ) (labeled as "Ligand of Interest" by depositor).

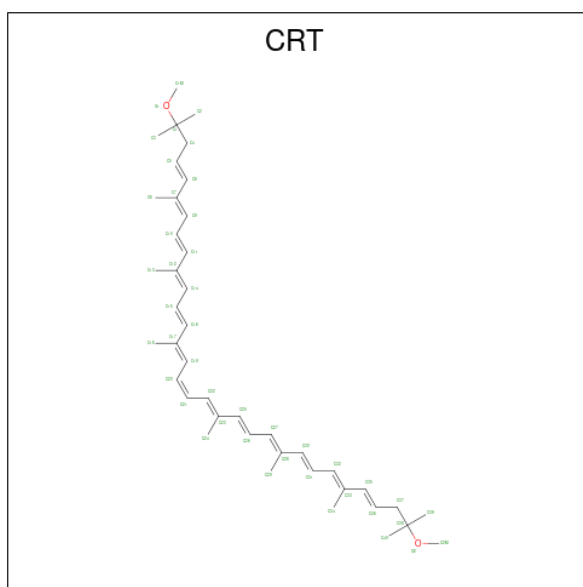


Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
21	L	1	65	55	4	6	0
21	M	1	65	55	4	6	0

- Molecule 22 is FE (III) ION (three-letter code: FE) (formula: Fe).

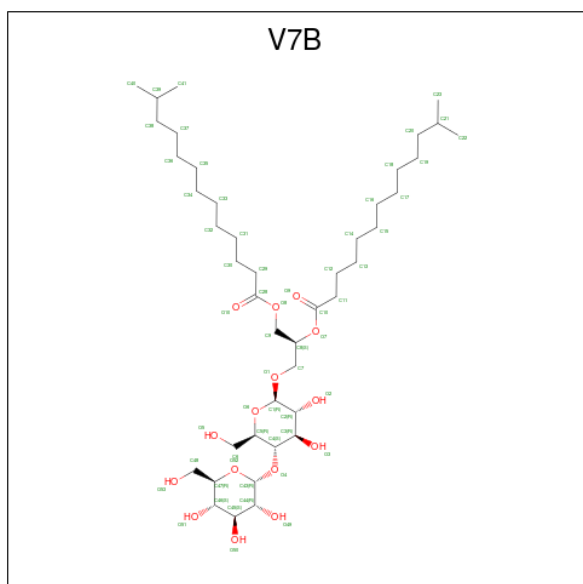
Mol	Chain	Residues	Atoms		AltConf
			Total	Fe	
22	M	1	1	1	0

- Molecule 23 is SPIRILLOXANTHIN (three-letter code: CRT) (formula:  $C_{42}H_{60}O_2$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
23	M	1	44	42	2	0

- Molecule 24 is [(2 {S})-3-[(2 {R},3 {R},4 {R},5 {S},6 {R})-6-(hydroxymethyl)-5-[(2 {R},3 {R},4 {S},5 {S},6 {R})-6-(hydroxymethyl)-3,4,5-tris(oxidanyl)oxan-2-yl]oxy-3,4-bis(oxidanyl)oxan-2-yl]oxy-2-(12-methyltridecanoyloxy)propyl] 12-methyltridecanoate (three-letter code: V7B) (formula: C<sub>43</sub>H<sub>80</sub>O<sub>15</sub>).



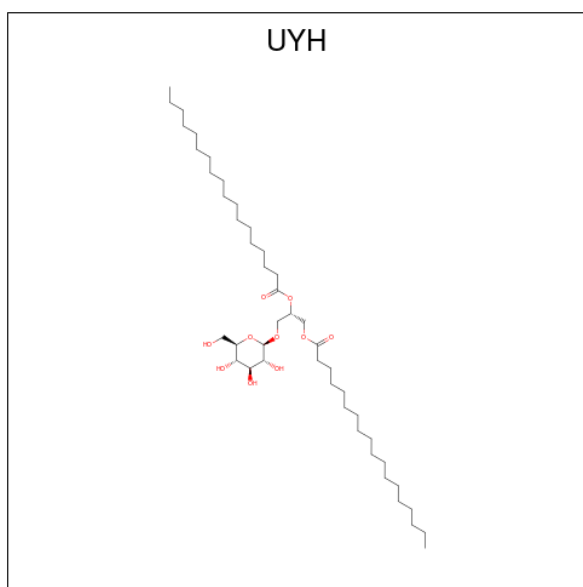
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
24	af	1	58	43	15	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
24	ag	1	58	43	15	0

- Molecule 25 is [(2 {S})-3-[(2 {R},3 {R},4 {S},5 {S},6 {R})-6-(hydroxymethyl)-3,4,5-tris(oxidanyl)oxan-2-yl]oxy-2-octadecanoyloxy-propyl] octadecanoate (three-letter code: UYH) (formula: C<sub>45</sub>H<sub>86</sub>O<sub>10</sub>).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
25	ai	1	55	45	10	0

- Molecule 26 is water.

Mol	Chain	Residues	Atoms		AltConf
26	AA	4	Total	O	0
			4	4	
26	AB	3	Total	O	0
			3	3	
26	AC	1	Total	O	0
			1	1	
26	AD	2	Total	O	0
			2	2	
26	AF	1	Total	O	0
			1	1	
26	AG	6	Total	O	0
			6	6	

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Mol	Chain	Residues	Atoms		AltConf
26	AH	5	Total 5	O 5	0
26	AI	1	Total 1	O 1	0
26	AJ	6	Total 6	O 6	0
26	AK	4	Total 4	O 4	0
26	AL	1	Total 1	O 1	0
26	AM	2	Total 2	O 2	0
26	AN	3	Total 3	O 3	0
26	AO	1	Total 1	O 1	0
26	AP	3	Total 3	O 3	0
26	AQ	4	Total 4	O 4	0
26	AR	1	Total 1	O 1	0
26	AS	4	Total 4	O 4	0
26	AT	2	Total 2	O 2	0
26	AU	1	Total 1	O 1	0
26	AV	4	Total 4	O 4	0
26	AW	2	Total 2	O 2	0
26	AX	1	Total 1	O 1	0
26	BG	1	Total 1	O 1	0
26	C	82	Total 82	O 82	0
26	C1	35	Total 35	O 35	0
26	H1	9	Total 9	O 9	0

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Mol	Chain	Residues	Atoms		AltConf
26	H2	8	Total 8	O 8	0
26	L	47	Total 47	O 47	0
26	M	59	Total 59	O 59	0
26	aa	5	Total 5	O 5	0
26	ab	5	Total 5	O 5	0
26	ac	6	Total 6	O 6	0
26	ad	10	Total 10	O 10	0
26	ae	14	Total 14	O 14	0
26	af	10	Total 10	O 10	0
26	ag	11	Total 11	O 11	0
26	ah	5	Total 5	O 5	0
26	ai	5	Total 5	O 5	0
26	aj	8	Total 8	O 8	0
26	ak	16	Total 16	O 16	0
26	al	11	Total 11	O 11	0
26	am	10	Total 10	O 10	0
26	an	10	Total 10	O 10	0
26	ao	5	Total 5	O 5	0
26	ap	5	Total 5	O 5	0
26	ba	1	Total 1	O 1	0
26	bb	2	Total 2	O 2	0

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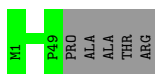
Mol	Chain	Residues	Atoms		AltConf
26	bc	3	Total 3	O 3	0
26	bd	5	Total 5	O 5	0
26	be	6	Total 6	O 6	0
26	bf	2	Total 2	O 2	0
26	bg	3	Total 3	O 3	0
26	bh	4	Total 4	O 4	0
26	bi	3	Total 3	O 3	0
26	bj	1	Total 1	O 1	0
26	bk	5	Total 5	O 5	0
26	bl	2	Total 2	O 2	0
26	bm	5	Total 5	O 5	0
26	bn	3	Total 3	O 3	0
26	bo	5	Total 5	O 5	0
26	bp	2	Total 2	O 2	0

### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

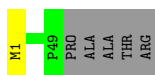
- Molecule 1: Lhh-alpha

Chain AA:  91% 9%




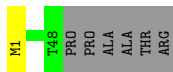
- Molecule 1: Lhh-alpha

Chain AB:  89% 9%




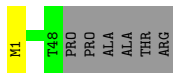
- Molecule 1: Lhh-alpha

Chain AC:  87% 11%



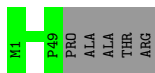
- Molecule 1: Lhh-alpha

Chain AD:  87% 11%



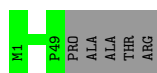
- Molecule 1: Lhh-alpha

Chain AE:  91% 9%



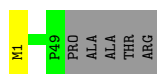
- Molecule 1: Lhh-alpha

Chain AF:  91% 9%



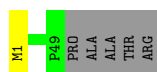
● Molecule 1: Lhh-alpha

Chain AG:  89% 9%



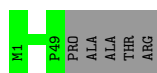
● Molecule 1: Lhh-alpha

Chain AH:  89% 9%




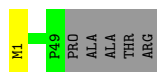
● Molecule 1: Lhh-alpha

Chain AI:  91% 9%



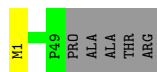
● Molecule 1: Lhh-alpha

Chain AJ:  89% 9%



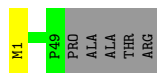
● Molecule 1: Lhh-alpha

Chain AK:  89% 9%



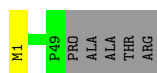
● Molecule 1: Lhh-alpha

Chain AL:  89% 9%



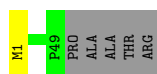
● Molecule 1: Lhh-alpha

Chain AM:  89% 9%



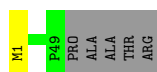
● Molecule 1: Lhh-alpha

Chain AN:  89% 9%




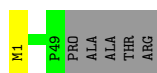
● Molecule 1: Lhh-alpha

Chain AO:  89% 9%



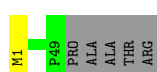
● Molecule 1: Lhh-alpha

Chain AP:  89% 9%



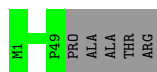
● Molecule 1: Lhh-alpha

Chain AQ:  89% 9%



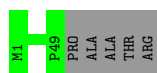
● Molecule 1: Lhh-alpha

Chain AR:  91% 9%




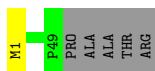
● Molecule 1: Lhh-alpha

Chain AS:  91% 9%



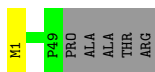
● Molecule 1: Lhh-alpha

Chain AT:  89% 9%




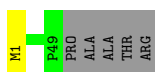
- Molecule 1: Lhh-alpha

Chain AU:  89% 9%



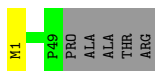
- Molecule 1: Lhh-alpha

Chain AV:  89% 9%



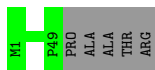
- Molecule 1: Lhh-alpha

Chain AW:  89% 9%



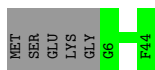
- Molecule 1: Lhh-alpha

Chain AX:  91% 9%



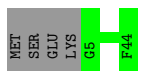
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BA:  89% 11%




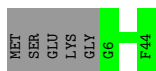
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BB:  91% 9%



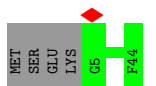
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BC:  89% 11%



- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BD:  91% 9%



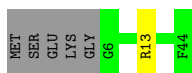
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BE:  91% 9%



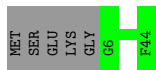
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BF:  86% 11%



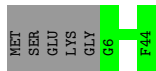
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BG:  89% 11%



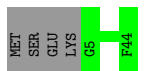
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BH:  89% 11%




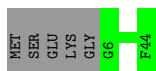
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BI:  91% 9%



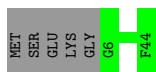
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BJ:  89% 11%



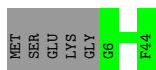
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BK:  89% 11%



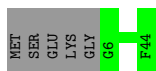
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BL:  89% 11%



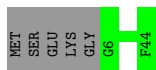
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BM:  89% 11%




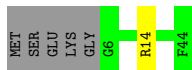
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BN:  89% 11%



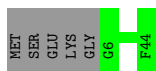
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BO:  86% 11%



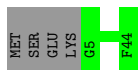
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BP:  89% 11%



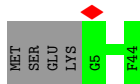
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BQ:  91% 9%



- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BR:  91% 9%



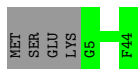
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BS:  91% 9%



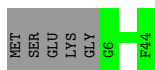
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BT:  91% 9%



- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BU:  89% 11%



- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BV:  91% 9%



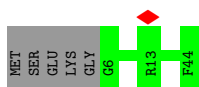
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BW:  91% 9%

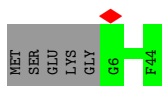
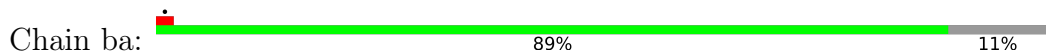


- Molecule 2: Light-harvesting protein B:885 subunit beta

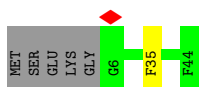
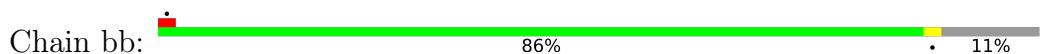




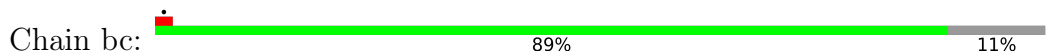
- Molecule 2: Light-harvesting protein B:885 subunit beta



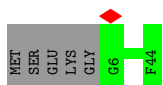
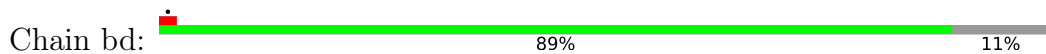
- Molecule 2: Light-harvesting protein B:885 subunit beta



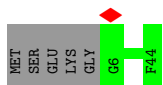
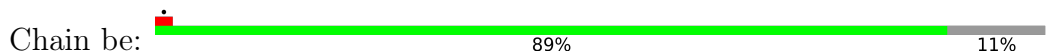
- Molecule 2: Light-harvesting protein B:885 subunit beta



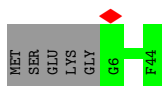
- Molecule 2: Light-harvesting protein B:885 subunit beta



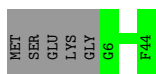
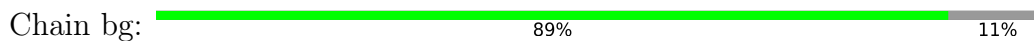
- Molecule 2: Light-harvesting protein B:885 subunit beta



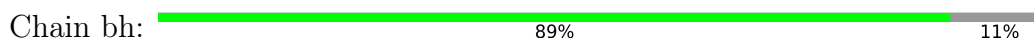
- Molecule 2: Light-harvesting protein B:885 subunit beta



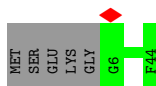
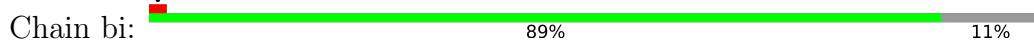
- Molecule 2: Light-harvesting protein B:885 subunit beta



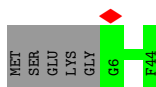
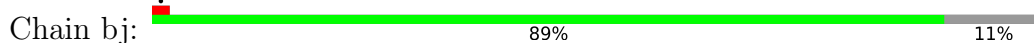
- Molecule 2: Light-harvesting protein B:885 subunit beta



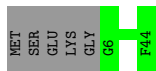
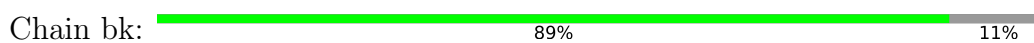
- Molecule 2: Light-harvesting protein B:885 subunit beta



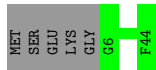
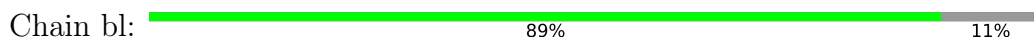
- Molecule 2: Light-harvesting protein B:885 subunit beta



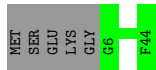
- Molecule 2: Light-harvesting protein B:885 subunit beta



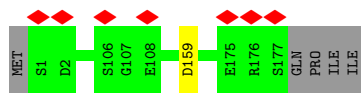
- Molecule 2: Light-harvesting protein B:885 subunit beta



- Molecule 2: Light-harvesting protein B:885 subunit beta



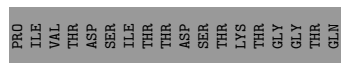
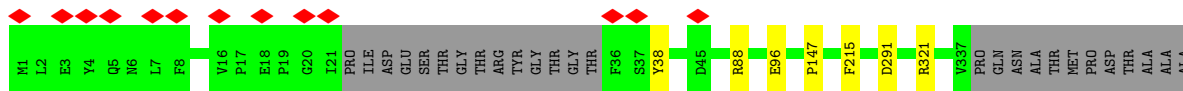
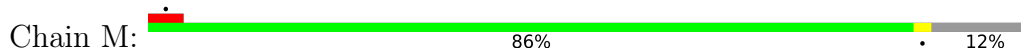




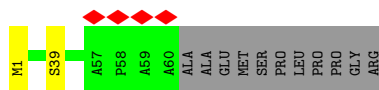
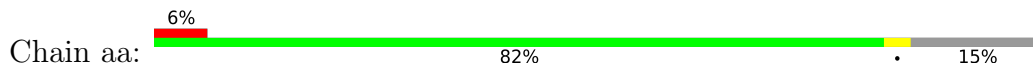
• Molecule 7: Photosynthetic reaction center L subunit



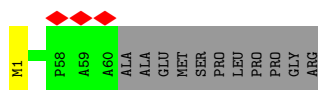
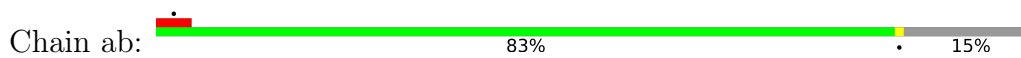
• Molecule 8: RC-M



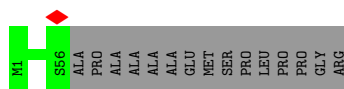
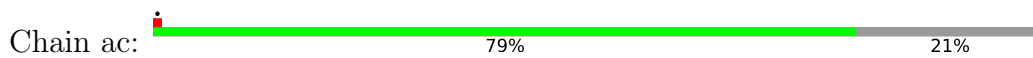
• Molecule 9: LHC domain-containing protein



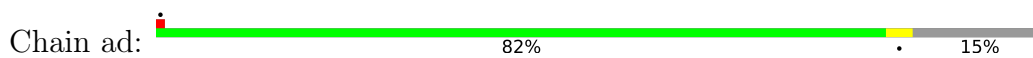
• Molecule 9: LHC domain-containing protein

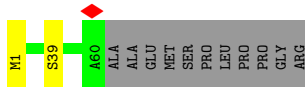


• Molecule 9: LHC domain-containing protein

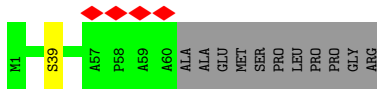
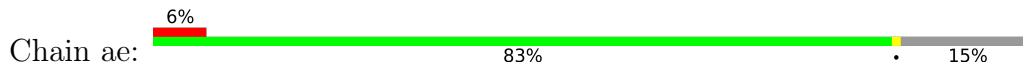


• Molecule 9: LHC domain-containing protein

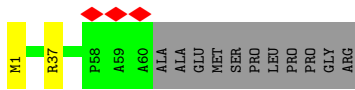
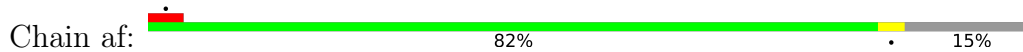




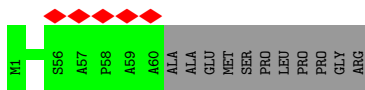
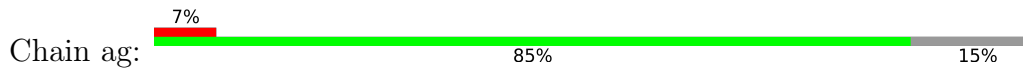
- Molecule 9: LHC domain-containing protein



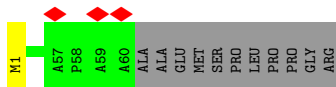
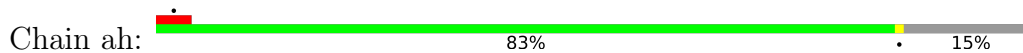
- Molecule 9: LHC domain-containing protein



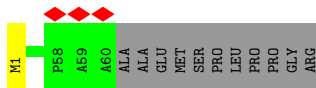
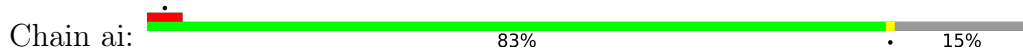
- Molecule 9: LHC domain-containing protein



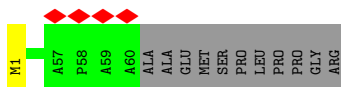
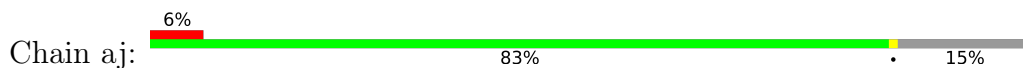
- Molecule 9: LHC domain-containing protein



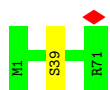
- Molecule 9: LHC domain-containing protein



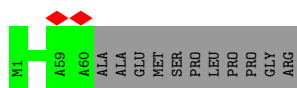
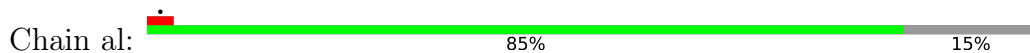
- Molecule 9: LHC domain-containing protein



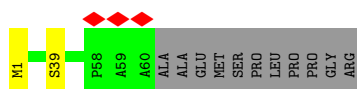
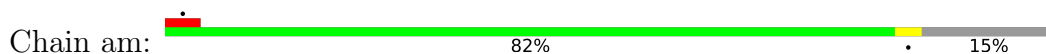
- Molecule 9: LHC domain-containing protein



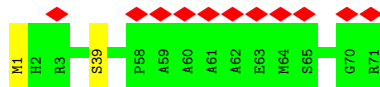
- Molecule 9: LHC domain-containing protein



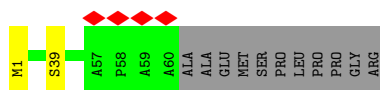
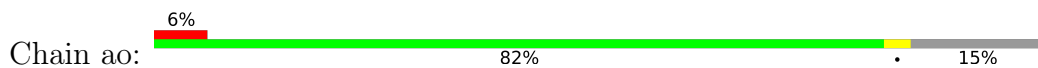
- Molecule 9: LHC domain-containing protein



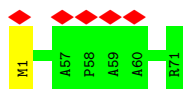
- Molecule 9: LHC domain-containing protein



- Molecule 9: LHC domain-containing protein



- Molecule 9: LHC domain-containing protein



- Molecule 10: alpha-L-rhamnopyranose-(1-4)-alpha-D-mannopyranose



- Molecule 10: alpha-L-rhamnopyranose-(1-4)-alpha-D-mannopyranose

Chain CG:  100%

MAN1  
MAN2

## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	176531	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	24.8	Depositor
Minimum defocus (nm)	-800	Depositor
Maximum defocus (nm)	-2400	Depositor
Magnification	120000	Depositor
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	0.211	Depositor
Minimum map value	-0.059	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.0238	Depositor
Map size (Å)	399.784, 399.784, 399.784	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.99946, 0.99946, 0.99946	Depositor



## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LMT, 0V9, V75, MQ8, BPH, FME, RAM, CD4, HEC, UYH, V7B, FE, PGW, NDG, MAN, CRT, BCL, V7N

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	AA	0.24	0/396	0.54	0/541
1	AB	0.24	0/396	0.49	0/541
1	AC	0.24	0/388	0.52	0/529
1	AD	0.25	0/388	0.54	0/529
1	AE	0.24	0/396	0.51	0/541
1	AF	0.24	0/396	0.57	0/541
1	AG	0.24	0/396	0.50	0/541
1	AH	0.24	0/396	0.51	0/541
1	AI	0.24	0/396	0.48	0/541
1	AJ	0.25	0/396	0.53	0/541
1	AK	0.24	0/396	0.50	0/541
1	AL	0.24	0/396	0.53	0/541
1	AM	0.24	0/396	0.50	0/541
1	AN	0.25	0/396	0.50	0/541
1	AO	0.23	0/396	0.52	0/541
1	AP	0.24	0/396	0.49	0/541
1	AQ	0.25	0/396	0.53	0/541
1	AR	0.24	0/396	0.51	0/541
1	AS	0.24	0/396	0.53	0/541
1	AT	0.24	0/396	0.49	0/541
1	AU	0.24	0/396	0.49	0/541
1	AV	0.24	0/396	0.50	0/541
1	AW	0.24	0/396	0.50	0/541
1	AX	0.24	0/396	0.50	0/541
2	BA	0.24	0/336	0.50	0/456
2	BB	0.25	0/340	0.48	0/461
2	BC	0.24	0/336	0.48	0/456
2	BD	0.24	0/340	0.49	0/461
2	BE	0.23	0/340	0.50	0/461
2	BF	0.25	0/336	0.49	0/456
2	BG	0.25	0/336	0.51	0/456

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
2	BH	0.24	0/336	0.49	0/456
2	BI	0.25	0/340	0.50	0/461
2	BJ	0.25	0/336	0.50	0/456
2	BK	0.24	0/336	0.50	0/456
2	BL	0.24	0/336	0.50	0/456
2	BM	0.25	0/336	0.50	0/456
2	BN	0.25	0/336	0.49	0/456
2	BO	0.25	0/336	0.50	0/456
2	BP	0.25	0/336	0.51	0/456
2	BQ	0.25	0/340	0.52	0/461
2	BR	0.25	0/340	0.51	0/461
2	BS	0.24	0/340	0.49	0/461
2	BT	0.24	0/340	0.49	0/461
2	BU	0.25	0/336	0.50	0/456
2	BV	0.24	0/340	0.48	0/461
2	BW	0.23	0/340	0.48	0/461
2	BX	0.24	0/336	0.51	0/456
2	ba	0.24	0/336	0.48	0/456
2	bb	0.27	0/336	0.50	0/456
2	bc	0.24	0/336	0.47	0/456
2	bd	0.27	0/336	0.51	0/456
2	be	0.25	0/336	0.48	0/456
2	bf	0.26	0/336	0.50	0/456
2	bg	0.24	0/336	0.48	0/456
2	bh	0.24	0/336	0.54	0/456
2	bi	0.25	0/336	0.49	0/456
2	bj	0.25	0/336	0.49	0/456
2	bk	0.25	0/336	0.49	0/456
2	bl	0.26	0/336	0.52	0/456
2	bm	0.24	0/336	0.47	0/456
2	bn	0.26	0/340	0.51	0/461
2	bo	0.24	0/336	0.47	0/456
2	bp	0.25	0/336	0.51	0/456
3	C	0.26	0/2404	0.54	0/3279
4	C1	0.24	0/826	0.57	0/1128
5	H1	0.26	0/531	0.55	0/717
6	H2	0.25	0/1409	0.53	0/1924
7	L	0.25	0/2252	0.50	0/3081
8	M	0.26	0/2699	0.53	0/3691
9	aa	0.24	0/467	0.53	0/638
9	ab	0.25	0/467	0.52	0/638
9	ac	0.25	0/444	0.54	0/605
9	ad	0.26	0/467	0.55	0/638

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
9	ae	0.26	0/467	0.55	0/638
9	af	0.25	0/467	0.54	0/638
9	ag	0.24	0/467	0.54	0/638
9	ah	0.25	0/467	0.54	0/638
9	ai	0.25	0/467	0.53	0/638
9	aj	0.25	0/467	0.54	0/638
9	ak	0.27	0/547	0.56	0/748
9	al	0.25	0/467	0.54	0/638
9	am	0.25	0/467	0.51	0/638
9	an	0.27	0/547	0.56	0/748
9	ao	0.25	0/467	0.56	0/638
9	ap	0.24	0/548	0.53	0/748
All	All	0.25	0/40783	0.52	0/55580

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	BF	0	1
2	BO	0	1
8	M	0	2
9	af	0	1
All	All	0	5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	BF	13	ARG	Sidechain
2	BO	14	ARG	Sidechain
8	M	321	ARG	Sidechain
8	M	88	ARG	Sidechain
9	af	37	ARG	Sidechain

## 5.2 Too-close contacts [i](#)

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

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	AA	47/54 (87%)	47 (100%)	0	0	100	100
1	AB	47/54 (87%)	47 (100%)	0	0	100	100
1	AC	46/54 (85%)	46 (100%)	0	0	100	100
1	AD	46/54 (85%)	46 (100%)	0	0	100	100
1	AE	47/54 (87%)	47 (100%)	0	0	100	100
1	AF	47/54 (87%)	47 (100%)	0	0	100	100
1	AG	47/54 (87%)	47 (100%)	0	0	100	100
1	AH	47/54 (87%)	47 (100%)	0	0	100	100
1	AI	47/54 (87%)	47 (100%)	0	0	100	100
1	AJ	47/54 (87%)	47 (100%)	0	0	100	100
1	AK	47/54 (87%)	47 (100%)	0	0	100	100
1	AL	47/54 (87%)	47 (100%)	0	0	100	100
1	AM	47/54 (87%)	47 (100%)	0	0	100	100
1	AN	47/54 (87%)	47 (100%)	0	0	100	100
1	AO	47/54 (87%)	47 (100%)	0	0	100	100
1	AP	47/54 (87%)	47 (100%)	0	0	100	100
1	AQ	47/54 (87%)	47 (100%)	0	0	100	100
1	AR	47/54 (87%)	47 (100%)	0	0	100	100
1	AS	47/54 (87%)	47 (100%)	0	0	100	100
1	AT	47/54 (87%)	46 (98%)	1 (2%)	0	100	100
1	AU	47/54 (87%)	47 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AV	47/54 (87%)	47 (100%)	0	0	100	100
1	AW	47/54 (87%)	46 (98%)	1 (2%)	0	100	100
1	AX	47/54 (87%)	47 (100%)	0	0	100	100
2	BA	37/44 (84%)	37 (100%)	0	0	100	100
2	BB	38/44 (86%)	38 (100%)	0	0	100	100
2	BC	37/44 (84%)	37 (100%)	0	0	100	100
2	BD	38/44 (86%)	38 (100%)	0	0	100	100
2	BE	38/44 (86%)	38 (100%)	0	0	100	100
2	BF	37/44 (84%)	37 (100%)	0	0	100	100
2	BG	37/44 (84%)	37 (100%)	0	0	100	100
2	BH	37/44 (84%)	37 (100%)	0	0	100	100
2	BI	38/44 (86%)	38 (100%)	0	0	100	100
2	BJ	37/44 (84%)	37 (100%)	0	0	100	100
2	BK	37/44 (84%)	37 (100%)	0	0	100	100
2	BL	37/44 (84%)	37 (100%)	0	0	100	100
2	BM	37/44 (84%)	37 (100%)	0	0	100	100
2	BN	37/44 (84%)	37 (100%)	0	0	100	100
2	BO	37/44 (84%)	37 (100%)	0	0	100	100
2	BP	37/44 (84%)	37 (100%)	0	0	100	100
2	BQ	38/44 (86%)	38 (100%)	0	0	100	100
2	BR	38/44 (86%)	38 (100%)	0	0	100	100
2	BS	38/44 (86%)	37 (97%)	1 (3%)	0	100	100
2	BT	38/44 (86%)	38 (100%)	0	0	100	100
2	BU	37/44 (84%)	37 (100%)	0	0	100	100
2	BV	38/44 (86%)	38 (100%)	0	0	100	100
2	BW	38/44 (86%)	38 (100%)	0	0	100	100
2	BX	37/44 (84%)	37 (100%)	0	0	100	100
2	ba	37/44 (84%)	37 (100%)	0	0	100	100
2	bb	37/44 (84%)	36 (97%)	1 (3%)	0	100	100
2	bc	37/44 (84%)	37 (100%)	0	0	100	100
2	bd	37/44 (84%)	37 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	be	37/44 (84%)	37 (100%)	0	0	100	100
2	bf	37/44 (84%)	37 (100%)	0	0	100	100
2	bg	37/44 (84%)	37 (100%)	0	0	100	100
2	bh	37/44 (84%)	37 (100%)	0	0	100	100
2	bi	37/44 (84%)	37 (100%)	0	0	100	100
2	bj	37/44 (84%)	36 (97%)	1 (3%)	0	100	100
2	bk	37/44 (84%)	37 (100%)	0	0	100	100
2	bl	37/44 (84%)	36 (97%)	1 (3%)	0	100	100
2	bm	37/44 (84%)	37 (100%)	0	0	100	100
2	bn	38/44 (86%)	38 (100%)	0	0	100	100
2	bo	37/44 (84%)	37 (100%)	0	0	100	100
2	bp	37/44 (84%)	36 (97%)	1 (3%)	0	100	100
3	C	299/354 (84%)	284 (95%)	15 (5%)	0	100	100
4	C1	101/202 (50%)	98 (97%)	3 (3%)	0	100	100
5	H1	60/67 (90%)	60 (100%)	0	0	100	100
6	H2	174/181 (96%)	169 (97%)	5 (3%)	0	100	100
7	L	271/274 (99%)	264 (97%)	6 (2%)	1 (0%)	34	38
8	M	319/367 (87%)	310 (97%)	9 (3%)	0	100	100
9	aa	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
9	ab	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
9	ac	54/71 (76%)	52 (96%)	2 (4%)	0	100	100
9	ad	58/71 (82%)	58 (100%)	0	0	100	100
9	ae	58/71 (82%)	58 (100%)	0	0	100	100
9	af	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
9	ag	58/71 (82%)	58 (100%)	0	0	100	100
9	ah	58/71 (82%)	58 (100%)	0	0	100	100
9	ai	58/71 (82%)	56 (97%)	2 (3%)	0	100	100
9	aj	58/71 (82%)	58 (100%)	0	0	100	100
9	ak	69/71 (97%)	68 (99%)	1 (1%)	0	100	100
9	al	58/71 (82%)	57 (98%)	1 (2%)	0	100	100
9	am	58/71 (82%)	58 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	an	69/71 (97%)	67 (97%)	2 (3%)	0	100	100
9	ao	58/71 (82%)	58 (100%)	0	0	100	100
9	ap	69/71 (97%)	68 (99%)	1 (1%)	0	100	100
All	All	4798/5637 (85%)	4740 (99%)	57 (1%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
7	L	31	VAL

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	AA	38/41 (93%)	38 (100%)	0	100	100
1	AB	38/41 (93%)	38 (100%)	0	100	100
1	AC	37/41 (90%)	37 (100%)	0	100	100
1	AD	37/41 (90%)	37 (100%)	0	100	100
1	AE	38/41 (93%)	38 (100%)	0	100	100
1	AF	38/41 (93%)	38 (100%)	0	100	100
1	AG	38/41 (93%)	38 (100%)	0	100	100
1	AH	38/41 (93%)	38 (100%)	0	100	100
1	AI	38/41 (93%)	38 (100%)	0	100	100
1	AJ	38/41 (93%)	38 (100%)	0	100	100
1	AK	38/41 (93%)	38 (100%)	0	100	100
1	AL	38/41 (93%)	38 (100%)	0	100	100
1	AM	38/41 (93%)	38 (100%)	0	100	100
1	AN	38/41 (93%)	38 (100%)	0	100	100
1	AO	38/41 (93%)	38 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AP	38/41 (93%)	38 (100%)	0	100	100
1	AQ	38/41 (93%)	38 (100%)	0	100	100
1	AR	38/41 (93%)	38 (100%)	0	100	100
1	AS	38/41 (93%)	38 (100%)	0	100	100
1	AT	38/41 (93%)	38 (100%)	0	100	100
1	AU	38/41 (93%)	38 (100%)	0	100	100
1	AV	38/41 (93%)	38 (100%)	0	100	100
1	AW	38/41 (93%)	38 (100%)	0	100	100
1	AX	38/41 (93%)	38 (100%)	0	100	100
2	BA	31/35 (89%)	31 (100%)	0	100	100
2	BB	31/35 (89%)	31 (100%)	0	100	100
2	BC	31/35 (89%)	31 (100%)	0	100	100
2	BD	31/35 (89%)	31 (100%)	0	100	100
2	BE	31/35 (89%)	31 (100%)	0	100	100
2	BF	31/35 (89%)	31 (100%)	0	100	100
2	BG	31/35 (89%)	31 (100%)	0	100	100
2	BH	31/35 (89%)	31 (100%)	0	100	100
2	BI	31/35 (89%)	31 (100%)	0	100	100
2	BJ	31/35 (89%)	31 (100%)	0	100	100
2	BK	31/35 (89%)	31 (100%)	0	100	100
2	BL	31/35 (89%)	31 (100%)	0	100	100
2	BM	31/35 (89%)	31 (100%)	0	100	100
2	BN	31/35 (89%)	31 (100%)	0	100	100
2	BO	31/35 (89%)	31 (100%)	0	100	100
2	BP	31/35 (89%)	31 (100%)	0	100	100
2	BQ	31/35 (89%)	31 (100%)	0	100	100
2	BR	31/35 (89%)	31 (100%)	0	100	100
2	BS	31/35 (89%)	31 (100%)	0	100	100
2	BT	31/35 (89%)	31 (100%)	0	100	100
2	BU	31/35 (89%)	31 (100%)	0	100	100
2	BV	31/35 (89%)	31 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	BW	31/35 (89%)	31 (100%)	0	100	100
2	BX	31/35 (89%)	31 (100%)	0	100	100
2	ba	31/35 (89%)	31 (100%)	0	100	100
2	bb	31/35 (89%)	30 (97%)	1 (3%)	39	47
2	bc	31/35 (89%)	31 (100%)	0	100	100
2	bd	31/35 (89%)	31 (100%)	0	100	100
2	be	31/35 (89%)	31 (100%)	0	100	100
2	bf	31/35 (89%)	31 (100%)	0	100	100
2	bg	31/35 (89%)	31 (100%)	0	100	100
2	bh	31/35 (89%)	31 (100%)	0	100	100
2	bi	31/35 (89%)	31 (100%)	0	100	100
2	bj	31/35 (89%)	31 (100%)	0	100	100
2	bk	31/35 (89%)	31 (100%)	0	100	100
2	bl	31/35 (89%)	31 (100%)	0	100	100
2	bm	31/35 (89%)	31 (100%)	0	100	100
2	bn	31/35 (89%)	31 (100%)	0	100	100
2	bo	31/35 (89%)	31 (100%)	0	100	100
2	bp	31/35 (89%)	31 (100%)	0	100	100
3	C	246/285 (86%)	244 (99%)	2 (1%)	81	89
4	C1	88/156 (56%)	88 (100%)	0	100	100
5	H1	50/53 (94%)	50 (100%)	0	100	100
6	H2	146/151 (97%)	145 (99%)	1 (1%)	84	91
7	L	215/216 (100%)	211 (98%)	4 (2%)	57	68
8	M	263/298 (88%)	258 (98%)	5 (2%)	57	68
9	aa	46/54 (85%)	45 (98%)	1 (2%)	52	63
9	ab	46/54 (85%)	46 (100%)	0	100	100
9	ac	45/54 (83%)	45 (100%)	0	100	100
9	ad	46/54 (85%)	45 (98%)	1 (2%)	52	63
9	ae	46/54 (85%)	45 (98%)	1 (2%)	52	63
9	af	46/54 (85%)	46 (100%)	0	100	100
9	ag	46/54 (85%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	ah	46/54 (85%)	46 (100%)	0	100	100
9	ai	46/54 (85%)	46 (100%)	0	100	100
9	aj	46/54 (85%)	46 (100%)	0	100	100
9	ak	54/54 (100%)	53 (98%)	1 (2%)	57	68
9	al	46/54 (85%)	46 (100%)	0	100	100
9	am	46/54 (85%)	45 (98%)	1 (2%)	52	63
9	an	54/54 (100%)	53 (98%)	1 (2%)	57	68
9	ao	46/54 (85%)	45 (98%)	1 (2%)	52	63
9	ap	54/54 (100%)	54 (100%)	0	100	100
All	All	3917/4407 (89%)	3897 (100%)	20 (0%)	89	94

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	C	37	ASP
3	C	202	TYR
6	H2	159	ASP
7	L	215	PHE
7	L	247	CYS
7	L	249	VAL
7	L	272	TRP
8	M	38	TYR
8	M	96	GLU
8	M	147	PRO
8	M	215	PHE
8	M	291	ASP
9	aa	39	SER
9	ad	39	SER
9	ae	39	SER
9	ak	39	SER
9	am	39	SER
9	an	39	SER
9	ao	39	SER
2	bb	35	PHE

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

Mol	Chain	Res	Type
3	C	44	GLN
7	L	104	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

42 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	$\# Z  > 2$
1	FME	AJ	1	1	8,9,10	0.92	0	7,9,11	1.06	1 (14%)
9	FME	ak	1	9	8,9,10	0.95	0	7,9,11	1.03	0
1	FME	AI	1	1	8,9,10	0.95	0	7,9,11	0.92	0
9	FME	ah	1	9	8,9,10	0.91	0	7,9,11	1.07	1 (14%)
9	FME	ao	1	9	8,9,10	0.90	0	7,9,11	1.12	1 (14%)
9	FME	af	1	9	8,9,10	0.94	0	7,9,11	1.05	1 (14%)
1	FME	AS	1	1	8,9,10	0.97	0	7,9,11	0.89	0
1	FME	AV	1	1	8,9,10	0.90	0	7,9,11	1.20	1 (14%)
9	FME	an	1	9	8,9,10	0.93	0	7,9,11	1.05	1 (14%)
9	FME	aa	1	9	8,9,10	0.93	0	7,9,11	1.02	1 (14%)
9	FME	ab	1	9	8,9,10	0.89	0	7,9,11	1.20	1 (14%)
9	FME	ap	1	9	8,9,10	0.87	0	7,9,11	1.40	2 (28%)
9	FME	al	1	9	8,9,10	0.91	0	7,9,11	0.99	0
1	FME	AN	1	1	8,9,10	0.90	0	7,9,11	1.46	2 (28%)
9	FME	ae	1	9	8,9,10	0.93	0	7,9,11	0.92	0
9	FME	aj	1	9	8,9,10	0.91	0	7,9,11	1.13	1 (14%)
9	FME	ai	1	9	8,9,10	0.93	0	7,9,11	1.15	1 (14%)
1	FME	AA	1	1	8,9,10	0.94	0	7,9,11	0.98	0
8	FME	M	1	8	8,9,10	0.92	0	7,9,11	0.74	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	FME	AM	1	1	8,9,10	0.93	0	7,9,11	1.02	1 (14%)
9	FME	ac	1	9	8,9,10	0.97	0	7,9,11	0.68	0
1	FME	AX	1	1	8,9,10	0.96	0	7,9,11	0.86	0
9	FME	ad	1	9	8,9,10	0.90	0	7,9,11	1.11	1 (14%)
1	FME	AU	1	1	8,9,10	0.92	0	7,9,11	1.03	1 (14%)
1	FME	AP	1	1	8,9,10	0.92	0	7,9,11	1.12	1 (14%)
1	FME	AK	1	1	8,9,10	0.91	0	7,9,11	1.19	1 (14%)
1	FME	AW	1	1	8,9,10	0.92	0	7,9,11	1.05	1 (14%)
1	FME	AH	1	1	8,9,10	0.94	0	7,9,11	1.04	1 (14%)
1	FME	AD	1	1	8,9,10	0.93	0	7,9,11	1.38	2 (28%)
1	FME	AQ	1	1	8,9,10	0.92	0	7,9,11	1.14	1 (14%)
1	FME	AT	1	1	8,9,10	0.93	0	7,9,11	1.12	1 (14%)
5	FME	H1	1	5	8,9,10	0.93	0	7,9,11	1.13	1 (14%)
1	FME	AE	1	1	8,9,10	0.93	0	7,9,11	0.91	0
1	FME	AG	1	1	8,9,10	0.95	0	7,9,11	0.98	1 (14%)
1	FME	AL	1	1	8,9,10	0.92	0	7,9,11	1.04	1 (14%)
9	FME	ag	1	9	8,9,10	0.94	0	7,9,11	0.98	0
1	FME	AB	1	1	8,9,10	0.91	0	7,9,11	1.11	1 (14%)
1	FME	AR	1	1	8,9,10	0.97	0	7,9,11	0.83	0
1	FME	AO	1	1	8,9,10	0.90	0	7,9,11	1.37	2 (28%)
1	FME	AF	1	1	8,9,10	0.94	0	7,9,11	0.95	0
9	FME	am	1	9	8,9,10	0.94	0	7,9,11	1.03	1 (14%)
1	FME	AC	1	1	8,9,10	0.95	0	7,9,11	1.06	1 (14%)

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
1	FME	AJ	1	1	-	2/7/9/11	-
9	FME	ak	1	9	-	2/7/9/11	-
1	FME	AI	1	1	-	1/7/9/11	-
9	FME	ah	1	9	-	0/7/9/11	-
9	FME	ao	1	9	-	0/7/9/11	-
9	FME	af	1	9	-	0/7/9/11	-
1	FME	AS	1	1	-	1/7/9/11	-
1	FME	AV	1	1	-	2/7/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
9	FME	an	1	9	-	2/7/9/11	-
9	FME	aa	1	9	-	2/7/9/11	-
9	FME	ab	1	9	-	4/7/9/11	-
9	FME	ap	1	9	-	1/7/9/11	-
9	FME	al	1	9	-	3/7/9/11	-
1	FME	AN	1	1	-	0/7/9/11	-
9	FME	ae	1	9	-	2/7/9/11	-
9	FME	aj	1	9	-	0/7/9/11	-
9	FME	ai	1	9	-	0/7/9/11	-
1	FME	AA	1	1	-	1/7/9/11	-
8	FME	M	1	8	-	2/7/9/11	-
1	FME	AM	1	1	-	1/7/9/11	-
9	FME	ac	1	9	-	0/7/9/11	-
1	FME	AX	1	1	-	0/7/9/11	-
9	FME	ad	1	9	-	0/7/9/11	-
1	FME	AU	1	1	-	0/7/9/11	-
1	FME	AP	1	1	-	1/7/9/11	-
1	FME	AK	1	1	-	0/7/9/11	-
1	FME	AW	1	1	-	0/7/9/11	-
1	FME	AH	1	1	-	1/7/9/11	-
1	FME	AD	1	1	-	0/7/9/11	-
1	FME	AQ	1	1	-	0/7/9/11	-
1	FME	AT	1	1	-	0/7/9/11	-
5	FME	H1	1	5	-	2/7/9/11	-
1	FME	AE	1	1	-	1/7/9/11	-
1	FME	AG	1	1	-	2/7/9/11	-
1	FME	AL	1	1	-	1/7/9/11	-
9	FME	ag	1	9	-	1/7/9/11	-
1	FME	AB	1	1	-	0/7/9/11	-
1	FME	AR	1	1	-	2/7/9/11	-
1	FME	AO	1	1	-	2/7/9/11	-
1	FME	AF	1	1	-	0/7/9/11	-
9	FME	am	1	9	-	0/7/9/11	-
1	FME	AC	1	1	-	1/7/9/11	-

There are no bond length outliers.

All (33) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	1	FME	C-CA-N	2.87	114.92	109.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AD	1	FME	C-CA-N	2.64	114.50	109.73
9	ab	1	FME	CA-N-CN	2.63	126.86	122.82
1	AO	1	FME	C-CA-N	2.52	114.28	109.73
1	AV	1	FME	C-CA-N	2.48	114.21	109.73
9	ai	1	FME	C-CA-N	2.45	114.15	109.73
1	AK	1	FME	C-CA-N	2.45	114.15	109.73
9	ap	1	FME	CA-N-CN	2.44	126.57	122.82
9	aj	1	FME	C-CA-N	2.40	114.07	109.73
9	ad	1	FME	C-CA-N	2.40	114.06	109.73
9	ao	1	FME	C-CA-N	2.37	114.00	109.73
1	AP	1	FME	C-CA-N	2.35	113.97	109.73
1	AB	1	FME	C-CA-N	2.33	113.93	109.73
5	H1	1	FME	C-CA-N	2.32	113.92	109.73
9	ap	1	FME	C-CA-N	2.29	113.86	109.73
1	AT	1	FME	C-CA-N	2.28	113.84	109.73
1	AC	1	FME	C-CA-N	2.27	113.84	109.73
1	AQ	1	FME	C-CA-N	2.26	113.81	109.73
1	AO	1	FME	CA-N-CN	2.26	126.29	122.82
9	ah	1	FME	C-CA-N	2.25	113.79	109.73
1	AJ	1	FME	C-CA-N	2.22	113.74	109.73
9	an	1	FME	C-CA-N	2.21	113.72	109.73
1	AD	1	FME	CA-N-CN	2.20	126.21	122.82
1	AL	1	FME	C-CA-N	2.19	113.68	109.73
1	AM	1	FME	C-CA-N	2.16	113.64	109.73
9	af	1	FME	C-CA-N	2.15	113.62	109.73
9	am	1	FME	C-CA-N	2.12	113.55	109.73
1	AU	1	FME	C-CA-N	2.11	113.54	109.73
9	aa	1	FME	C-CA-N	2.11	113.54	109.73
1	AW	1	FME	C-CA-N	2.11	113.54	109.73
1	AH	1	FME	C-CA-N	2.07	113.47	109.73
1	AN	1	FME	CA-N-CN	2.07	126.01	122.82
1	AG	1	FME	C-CA-N	2.00	113.34	109.73

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	H1	1	FME	CB-CA-N-CN
9	aa	1	FME	N-CA-CB-CG
9	ab	1	FME	CB-CA-N-CN
9	ab	1	FME	N-CA-CB-CG
9	ae	1	FME	O-C-CA-CB

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Mol	Chain	Res	Type	Atoms
9	ag	1	FME	O-C-CA-CB
9	ak	1	FME	O-C-CA-CB
9	al	1	FME	O-C-CA-CB
9	an	1	FME	C-CA-CB-CG
9	ap	1	FME	N-CA-CB-CG
1	AA	1	FME	O-C-CA-CB
1	AC	1	FME	O-C-CA-CB
1	AE	1	FME	O-C-CA-CB
1	AG	1	FME	O-C-CA-CB
1	AH	1	FME	O-C-CA-CB
1	AI	1	FME	O-C-CA-CB
1	AJ	1	FME	O-C-CA-CB
1	AM	1	FME	O-C-CA-CB
1	AP	1	FME	O-C-CA-CB
1	AS	1	FME	O-C-CA-CB
9	ak	1	FME	CA-CB-CG-SD
5	H1	1	FME	N-CA-CB-CG
9	an	1	FME	N-CA-CB-CG
1	AL	1	FME	N-CA-CB-CG
1	AR	1	FME	N-CA-CB-CG
1	AO	1	FME	C-CA-CB-CG
1	AR	1	FME	C-CA-CB-CG
1	AV	1	FME	N-CA-CB-CG
8	M	1	FME	N-CA-CB-CG
1	AV	1	FME	CA-CB-CG-SD
9	ab	1	FME	CA-CB-CG-SD
9	al	1	FME	CB-CA-N-CN
8	M	1	FME	CB-CG-SD-CE
9	aa	1	FME	C-CA-CB-CG
9	ab	1	FME	C-CA-CB-CG
1	AG	1	FME	CA-CB-CG-SD
1	AJ	1	FME	N-CA-CB-CG
9	ae	1	FME	N-CA-CB-CG
1	AO	1	FME	N-CA-CB-CG
9	al	1	FME	CA-CB-CG-SD

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates [i](#)

4 monosaccharides 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
10	MAN	CG	1	3,10,17	11,11,12	0.84	1 (9%)	15,15,17	1.09	1 (6%)
10	RAM	CG	2	10	10,10,11	1.72	2 (20%)	14,14,16	1.04	1 (7%)
10	MAN	MG	1	17,8,10	11,11,12	0.77	0	15,15,17	0.99	1 (6%)
10	RAM	MG	2	10	10,10,11	1.68	2 (20%)	14,14,16	1.94	3 (21%)

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
10	MAN	CG	1	3,10,17	-	2/2/19/22	0/1/1/1
10	RAM	CG	2	10	-	-	0/1/1/1
10	MAN	MG	1	17,8,10	-	0/2/19/22	0/1/1/1
10	RAM	MG	2	10	-	-	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	CG	2	RAM	O5-C1	4.16	1.50	1.43
10	MG	2	RAM	O5-C1	3.84	1.49	1.43
10	MG	2	RAM	C2-C3	-2.61	1.48	1.52
10	CG	2	RAM	C2-C3	-2.33	1.49	1.52
10	CG	1	MAN	O5-C1	-2.19	1.40	1.43

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	MG	2	RAM	C3-C4-C5	3.82	115.72	109.77
10	MG	2	RAM	C6-C5-C4	-3.77	106.10	113.07
10	MG	2	RAM	O5-C5-C4	3.71	116.18	109.52
10	CG	1	MAN	C1-O5-C5	2.92	116.15	112.19
10	MG	1	MAN	C1-O5-C5	2.28	115.28	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	CG	2	RAM	C6-C5-C4	-2.02	109.34	113.07

There are no chirality outliers.

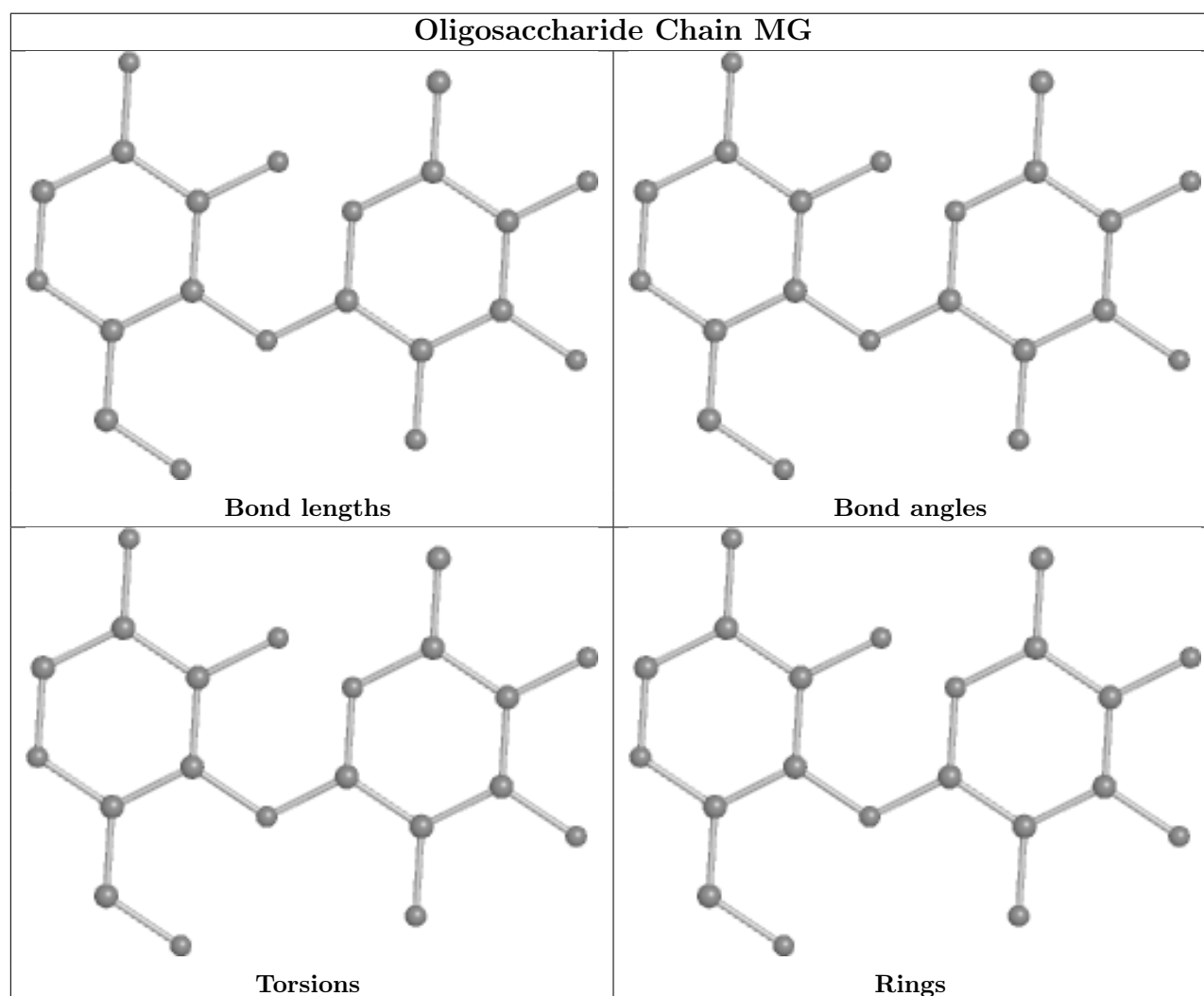
All (2) torsion outliers are listed below:

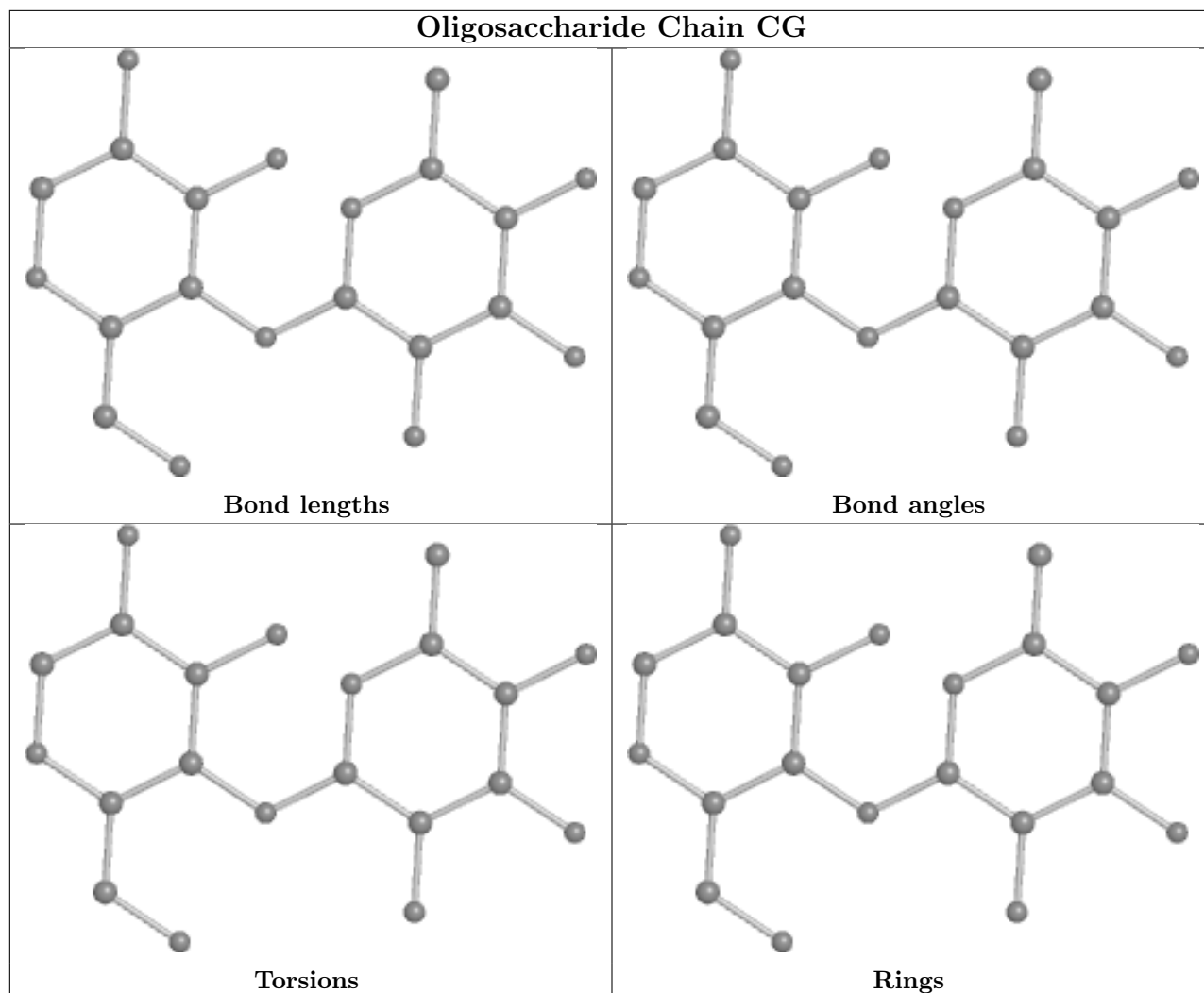
Mol	Chain	Res	Type	Atoms
10	CG	1	MAN	O5-C5-C6-O6
10	CG	1	MAN	C4-C5-C6-O6

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.





## 5.6 Ligand geometry [i](#)

Of 316 ligands modelled in this entry, 1 is monoatomic - leaving 315 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	$\# Z  > 2$
12	LMT	BR	104	-	36,36,36	1.08	5 (13%)	47,47,47	1.00	2 (4%)
11	BCL	BH	1004	-	58,74,74	1.21	3 (5%)	69,115,115	1.42	12 (17%)
11	BCL	AB	105	-	58,74,74	1.34	5 (8%)	69,115,115	1.35	10 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	AQ	103	-	36,36,36	1.10	5 (13%)	47,47,47	0.97	2 (4%)
12	LMT	BG	1005	-	36,36,36	1.10	5 (13%)	47,47,47	0.80	1 (2%)
12	LMT	bf	102	-	36,36,36	1.07	5 (13%)	47,47,47	0.99	1 (2%)
11	BCL	AH	101	-	58,74,74	1.22	4 (6%)	69,115,115	1.33	9 (13%)
12	LMT	bp	102	-	36,36,36	1.08	5 (13%)	47,47,47	0.87	2 (4%)
11	BCL	L	304	-	58,74,74	1.24	3 (5%)	69,115,115	1.31	10 (14%)
11	BCL	M	403	-	58,74,74	1.22	3 (5%)	69,115,115	1.39	10 (14%)
12	LMT	AR	103	-	36,36,36	1.07	5 (13%)	47,47,47	0.93	2 (4%)
13	V7N	bj	101	-	43,44,44	2.04	9 (20%)	44,54,54	1.49	8 (18%)
13	V7N	bb	101	-	43,44,44	2.09	9 (20%)	44,54,54	1.53	9 (20%)
11	BCL	AB	102	26	58,74,74	1.23	5 (8%)	69,115,115	1.40	11 (15%)
15	HEC	C	403	3	32,50,50	1.98	3 (9%)	24,82,82	2.08	6 (25%)
20	MQ8	ao	101	-	54,54,54	0.63	0	66,69,69	1.01	2 (3%)
11	BCL	aa	1001	-	58,74,74	1.25	3 (5%)	69,115,115	1.34	9 (13%)
11	BCL	am	1001	-	58,74,74	1.25	4 (6%)	69,115,115	1.35	10 (14%)
12	LMT	AM	103	-	36,36,36	1.09	5 (13%)	47,47,47	0.93	2 (4%)
11	BCL	AC	1001	-	58,74,74	1.23	3 (5%)	69,115,115	1.35	9 (13%)
11	BCL	BA	103	-	58,74,74	1.22	3 (5%)	69,115,115	1.30	10 (14%)
11	BCL	ag	102	-	58,74,74	1.24	4 (6%)	69,115,115	1.34	9 (13%)
12	LMT	BE	104	-	36,36,36	1.11	5 (13%)	47,47,47	1.27	6 (12%)
11	BCL	AF	102	-	58,74,74	1.23	4 (6%)	69,115,115	1.34	9 (13%)
12	LMT	BS	1003	-	36,36,36	1.06	5 (13%)	47,47,47	0.91	1 (2%)
12	LMT	BK	1002	-	36,36,36	1.09	5 (13%)	47,47,47	0.93	2 (4%)
13	V7N	bi	102	-	43,44,44	2.07	11 (25%)	44,54,54	1.52	8 (18%)
11	BCL	be	105	-	58,74,74	1.23	3 (5%)	69,115,115	1.31	11 (15%)
12	LMT	AS	103	-	36,36,36	1.11	5 (13%)	47,47,47	1.02	2 (4%)
13	V7N	AE	105	-	43,44,44	2.01	9 (20%)	44,54,54	1.60	10 (22%)
11	BCL	BC	105	-	58,74,74	1.24	3 (5%)	69,115,115	1.39	11 (15%)
11	BCL	BQ	1002	-	58,74,74	1.21	3 (5%)	69,115,115	1.37	11 (15%)
11	BCL	AI	101	-	58,74,74	1.27	4 (6%)	69,115,115	1.53	14 (20%)
12	LMT	BX	101	-	36,36,36	1.09	5 (13%)	47,47,47	0.88	1 (2%)
12	LMT	BN	1002	-	36,36,36	1.06	5 (13%)	47,47,47	0.84	1 (2%)
12	LMT	BD	105	-	36,36,36	1.11	5 (13%)	47,47,47	0.92	2 (4%)
12	LMT	BK	1004	-	36,36,36	1.07	4 (11%)	47,47,47	1.03	3 (6%)
11	BCL	AN	102	26	58,74,74	1.26	5 (8%)	69,115,115	1.38	10 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	AE	106	-	36,36,36	1.10	5 (13%)	47,47,47	0.90	0
12	LMT	AW	102	-	36,36,36	1.12	5 (13%)	47,47,47	0.86	1 (2%)
11	BCL	AP	101	26	58,74,74	1.24	5 (8%)	69,115,115	1.51	12 (17%)
12	LMT	BS	1002	-	36,36,36	1.09	5 (13%)	47,47,47	0.90	1 (2%)
12	LMT	BF	103	-	36,36,36	1.08	5 (13%)	47,47,47	0.94	1 (2%)
24	V7B	af	101	-	59,59,59	0.89	3 (5%)	75,75,75	1.08	5 (6%)
12	LMT	bb	105	-	36,36,36	1.10	5 (13%)	47,47,47	0.91	2 (4%)
11	BCL	AE	102	-	58,74,74	1.26	5 (8%)	69,115,115	1.45	15 (21%)
12	LMT	BW	1004	-	36,36,36	1.09	5 (13%)	47,47,47	0.99	3 (6%)
11	BCL	BJ	1004	-	58,74,74	1.21	3 (5%)	69,115,115	1.34	10 (14%)
12	LMT	bi	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.86	1 (2%)
12	LMT	AJ	103	-	36,36,36	1.09	5 (13%)	47,47,47	0.86	1 (2%)
12	LMT	L	306	-	36,36,36	1.11	5 (13%)	47,47,47	0.97	2 (4%)
11	BCL	AS	104	26	58,74,74	1.26	4 (6%)	69,115,115	1.55	15 (21%)
11	BCL	AI	103	-	58,74,74	1.23	4 (6%)	69,115,115	1.36	9 (13%)
11	BCL	bf	103	-	58,74,74	1.24	3 (5%)	69,115,115	1.43	13 (18%)
12	LMT	BD	102	-	36,36,36	1.09	5 (13%)	47,47,47	0.87	0
12	LMT	BA	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.86	0
11	BCL	BB	105	-	58,74,74	1.22	3 (5%)	69,115,115	1.37	10 (14%)
11	BCL	BU	1001	-	58,74,74	1.21	3 (5%)	69,115,115	1.31	10 (14%)
12	LMT	AG	103	-	36,36,36	1.10	5 (13%)	47,47,47	1.01	3 (6%)
20	MQ8	M	407	-	54,54,54	0.62	0	66,69,69	0.72	1 (1%)
11	BCL	AN	103	-	58,74,74	1.22	4 (6%)	69,115,115	1.35	9 (13%)
13	V7N	bp	101	-	43,44,44	2.08	12 (27%)	44,54,54	1.56	10 (22%)
12	LMT	BC	104	-	36,36,36	1.08	4 (11%)	47,47,47	1.00	1 (2%)
12	LMT	BV	1003	-	36,36,36	1.07	4 (11%)	47,47,47	0.90	2 (4%)
12	LMT	BL	1006	-	36,36,36	1.09	5 (13%)	47,47,47	1.02	2 (4%)
11	BCL	AE	103	-	58,74,74	1.23	3 (5%)	69,115,115	1.35	9 (13%)
12	LMT	AT	102	-	36,36,36	1.03	4 (11%)	47,47,47	1.11	3 (6%)
13	V7N	bh	101	-	43,44,44	2.05	10 (23%)	44,54,54	1.49	8 (18%)
13	V7N	BJ	1001	-	43,44,44	2.00	10 (23%)	44,54,54	1.57	9 (20%)
11	BCL	bk	1002	-	58,74,74	1.24	3 (5%)	69,115,115	1.44	14 (20%)
11	BCL	ba	103	-	58,74,74	1.24	3 (5%)	69,115,115	1.32	10 (14%)
14	0V9	bd	104	-	44,44,46	0.75	1 (2%)	47,49,51	0.93	2 (4%)
12	LMT	BO	1003	-	36,36,36	1.10	5 (13%)	47,47,47	0.89	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
14	0V9	bb	102	-	44,44,46	0.74	1 (2%)	47,49,51	0.84	1 (2%)
11	BCL	AK	103	26	58,74,74	1.26	4 (6%)	69,115,115	1.43	11 (15%)
12	LMT	AD	103	-	36,36,36	1.09	5 (13%)	47,47,47	0.93	2 (4%)
12	LMT	AP	103	-	36,36,36	1.10	5 (13%)	47,47,47	0.88	0
11	BCL	AF	101	-	58,74,74	1.31	5 (8%)	69,115,115	1.40	11 (15%)
12	LMT	BV	1004	-	36,36,36	1.09	5 (13%)	47,47,47	0.92	3 (6%)
11	BCL	ab	101	-	58,74,74	1.24	3 (5%)	69,115,115	1.86	11 (15%)
12	LMT	BS	1004	-	36,36,36	1.08	5 (13%)	47,47,47	0.91	2 (4%)
11	BCL	AA	1001	-	58,74,74	1.23	3 (5%)	69,115,115	1.37	9 (13%)
13	V7N	AW	104	-	43,44,44	2.05	9 (20%)	44,54,54	1.57	10 (22%)
12	LMT	ba	101	-	36,36,36	1.08	4 (11%)	47,47,47	0.92	1 (2%)
12	LMT	BR	103	-	36,36,36	1.05	4 (11%)	47,47,47	0.91	1 (2%)
13	V7N	BL	1001	-	43,44,44	2.01	9 (20%)	44,54,54	1.61	10 (22%)
12	LMT	BM	1003	-	36,36,36	1.10	4 (11%)	47,47,47	0.93	1 (2%)
11	BCL	AG	101	-	58,74,74	1.23	4 (6%)	69,115,115	1.33	9 (13%)
12	LMT	BA	101	-	36,36,36	1.08	5 (13%)	47,47,47	0.92	1 (2%)
11	BCL	AV	102	26	58,74,74	1.27	4 (6%)	69,115,115	1.39	10 (14%)
12	LMT	AL	104	-	36,36,36	1.08	5 (13%)	47,47,47	0.95	1 (2%)
11	BCL	bd	103	-	58,74,74	1.26	3 (5%)	69,115,115	1.46	14 (20%)
17	V75	M	410	10,16	18,18,18	1.63	5 (27%)	21,25,25	1.68	2 (9%)
11	BCL	BG	1003	-	58,74,74	1.23	3 (5%)	69,115,115	1.36	11 (15%)
11	BCL	AW	101	-	58,74,74	1.23	3 (5%)	69,115,115	1.36	9 (13%)
12	LMT	AB	104	-	36,36,36	1.09	5 (13%)	47,47,47	1.02	2 (4%)
12	LMT	AN	101	-	36,36,36	1.08	5 (13%)	47,47,47	0.92	2 (4%)
12	LMT	AL	101	-	36,36,36	1.08	5 (13%)	47,47,47	0.84	0
12	LMT	BW	1003	-	36,36,36	1.09	5 (13%)	47,47,47	1.09	3 (6%)
13	V7N	BQ	1001	-	43,44,44	2.05	10 (23%)	44,54,54	1.56	9 (20%)
11	BCL	AD	102	-	58,74,74	1.26	3 (5%)	69,115,115	1.43	11 (15%)
11	BCL	BT	1002	-	58,74,74	1.24	3 (5%)	69,115,115	1.44	12 (17%)
11	BCL	ae	101	-	58,74,74	1.27	3 (5%)	69,115,115	1.39	9 (13%)
12	LMT	bn	103	-	36,36,36	1.07	5 (13%)	47,47,47	1.21	5 (10%)
11	BCL	BO	1005	-	58,74,74	1.21	3 (5%)	69,115,115	1.30	10 (14%)
11	BCL	AM	101	26	58,74,74	1.24	4 (6%)	69,115,115	1.56	14 (20%)
13	V7N	BE	101	-	43,44,44	2.02	9 (20%)	44,54,54	1.52	10 (22%)
12	LMT	M	408	-	36,36,36	1.08	5 (13%)	47,47,47	0.93	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	BL	1003	-	36,36,36	1.11	5 (13%)	47,47,47	0.95	1 (2%)
14	0V9	L	310	-	44,44,46	0.75	1 (2%)	47,49,51	0.83	2 (4%)
13	V7N	BP	1001	-	43,44,44	2.03	10 (23%)	44,54,54	1.55	9 (20%)
11	BCL	AT	101	-	58,74,74	1.22	4 (6%)	69,115,115	1.35	9 (13%)
11	BCL	aj	102	-	58,74,74	1.24	4 (6%)	69,115,115	1.33	10 (14%)
12	LMT	BI	103	-	36,36,36	1.08	5 (13%)	47,47,47	1.03	2 (4%)
11	BCL	AQ	102	-	58,74,74	1.25	4 (6%)	69,115,115	1.35	9 (13%)
14	0V9	bi	103	-	44,44,46	0.75	1 (2%)	47,49,51	0.86	1 (2%)
13	V7N	BW	1001	-	43,44,44	2.00	9 (20%)	44,54,54	1.52	9 (20%)
18	CD4	ag	101	-	83,83,83	0.47	0	89,95,95	1.06	4 (4%)
11	BCL	ap	1001	-	58,74,74	1.26	4 (6%)	69,115,115	1.43	11 (15%)
14	0V9	bl	103	-	44,44,46	0.75	1 (2%)	47,49,51	0.92	2 (4%)
14	0V9	bo	104	-	44,44,46	0.75	1 (2%)	47,49,51	0.88	2 (4%)
11	BCL	bo	105	-	58,74,74	1.24	3 (5%)	69,115,115	1.31	11 (15%)
25	UYH	ai	102	-	55,55,55	2.09	15 (27%)	63,63,63	1.19	6 (9%)
12	LMT	H2	201	-	36,36,36	1.09	4 (11%)	47,47,47	0.91	1 (2%)
12	LMT	BC	102	-	36,36,36	1.10	5 (13%)	47,47,47	0.87	1 (2%)
12	LMT	BM	1005	-	36,36,36	1.08	5 (13%)	47,47,47	0.86	1 (2%)
13	V7N	bl	101	-	43,44,44	2.08	11 (25%)	44,54,54	1.57	11 (25%)
15	HEC	C	401	3	32,50,50	1.97	3 (9%)	24,82,82	1.87	5 (20%)
13	V7N	BK	1001	-	43,44,44	1.99	9 (20%)	44,54,54	1.52	9 (20%)
14	0V9	bm	104	-	44,44,46	0.76	1 (2%)	47,49,51	0.88	2 (4%)
18	CD4	ad	101	-	83,83,83	0.49	0	89,95,95	1.01	4 (4%)
12	LMT	AV	103	-	36,36,36	1.09	5 (13%)	47,47,47	0.94	2 (4%)
11	BCL	BV	1002	-	58,74,74	1.20	3 (5%)	69,115,115	1.33	10 (14%)
11	BCL	AR	101	-	58,74,74	1.24	4 (6%)	69,115,115	1.40	11 (15%)
13	V7N	aj	103	-	43,44,44	2.09	11 (25%)	44,54,54	1.59	9 (20%)
11	BCL	BL	1005	-	58,74,74	1.21	3 (5%)	69,115,115	1.32	10 (14%)
12	LMT	BB	104	-	36,36,36	1.09	5 (13%)	47,47,47	1.08	2 (4%)
12	LMT	BG	1004	-	36,36,36	1.09	5 (13%)	47,47,47	0.87	2 (4%)
13	V7N	af	103	-	43,44,44	2.08	10 (23%)	44,54,54	1.65	9 (20%)
11	BCL	AP	102	-	58,74,74	1.23	3 (5%)	69,115,115	1.43	11 (15%)
12	LMT	BU	1002	-	36,36,36	1.07	4 (11%)	47,47,47	1.03	2 (4%)
12	LMT	BN	1005	-	36,36,36	1.08	5 (13%)	47,47,47	0.91	2 (4%)
14	0V9	AQ	105	-	44,44,46	0.75	1 (2%)	47,49,51	0.80	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	AA	1003	-	36,36,36	1.11	5 (13%)	47,47,47	1.06	3 (6%)
14	0V9	bi	105	-	44,44,46	0.76	1 (2%)	47,49,51	0.98	2 (4%)
11	BCL	bm	103	-	58,74,74	1.24	3 (5%)	69,115,115	1.33	11 (15%)
11	BCL	AX	101	-	58,74,74	1.24	4 (6%)	69,115,115	1.36	9 (13%)
13	V7N	BG	1001	-	43,44,44	2.01	10 (23%)	44,54,54	1.58	9 (20%)
14	0V9	bc	103	-	44,44,46	0.76	1 (2%)	47,49,51	0.95	2 (4%)
13	V7N	bf	101	-	43,44,44	2.05	11 (25%)	44,54,54	1.52	8 (18%)
12	LMT	bc	102	-	36,36,36	1.11	5 (13%)	47,47,47	0.82	1 (2%)
11	BCL	bn	104	-	58,74,74	1.23	3 (5%)	69,115,115	1.29	11 (15%)
12	LMT	BP	1005	-	36,36,36	1.11	5 (13%)	47,47,47	0.99	4 (8%)
14	0V9	bp	103	-	44,44,46	0.76	1 (2%)	47,49,51	0.86	3 (6%)
12	LMT	L	301	-	36,36,36	1.14	5 (13%)	47,47,47	0.84	0
13	V7N	BH	1001	-	43,44,44	2.04	8 (18%)	44,54,54	1.60	10 (22%)
12	LMT	bi	101	-	36,36,36	1.12	4 (11%)	47,47,47	0.99	4 (8%)
12	LMT	AH	103	-	36,36,36	1.10	5 (13%)	47,47,47	0.95	2 (4%)
11	BCL	BF	102	-	58,74,74	1.20	3 (5%)	69,115,115	1.31	10 (14%)
12	LMT	BB	103	-	36,36,36	1.09	4 (11%)	47,47,47	0.77	0
11	BCL	AL	102	-	58,74,74	1.25	4 (6%)	69,115,115	1.37	9 (13%)
11	BCL	ak	101	-	58,74,74	1.26	4 (6%)	69,115,115	1.37	9 (13%)
11	BCL	AG	102	26	58,74,74	1.23	4 (6%)	69,115,115	1.54	13 (18%)
11	BCL	bi	106	-	58,74,74	1.23	3 (5%)	69,115,115	1.34	11 (15%)
12	LMT	BT	1004	-	36,36,36	1.11	5 (13%)	47,47,47	0.84	0
14	0V9	bn	102	-	44,44,46	0.75	1 (2%)	47,49,51	0.82	1 (2%)
20	MQ8	L	302	-	54,54,54	0.64	0	66,69,69	0.66	0
12	LMT	BQ	1003	-	36,36,36	1.10	5 (13%)	47,47,47	0.83	0
12	LMT	BX	102	-	36,36,36	1.08	5 (13%)	47,47,47	0.91	2 (4%)
11	BCL	BW	1002	-	58,74,74	1.24	3 (5%)	69,115,115	1.57	13 (18%)
11	BCL	BI	102	-	58,74,74	1.22	3 (5%)	69,115,115	1.36	10 (14%)
12	LMT	BC	103	-	36,36,36	1.09	5 (13%)	47,47,47	0.82	2 (4%)
12	LMT	BO	1002	-	36,36,36	1.06	5 (13%)	47,47,47	0.87	1 (2%)
12	LMT	BU	1004	-	36,36,36	1.08	5 (13%)	47,47,47	1.06	4 (8%)
11	BCL	AO	101	-	58,74,74	1.25	4 (6%)	69,115,115	1.35	9 (13%)
11	BCL	BX	103	-	58,74,74	1.23	3 (5%)	69,115,115	1.35	10 (14%)
11	BCL	bc	104	-	58,74,74	1.25	3 (5%)	69,115,115	1.39	12 (17%)
11	BCL	AK	102	-	58,74,74	1.23	4 (6%)	69,115,115	1.34	9 (13%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
11	BCL	BD	103	-	58,74,74	1.22	3 (5%)	69,115,115	1.35	11 (15%)
12	LMT	BH	1005	-	36,36,36	1.10	4 (11%)	47,47,47	0.90	1 (2%)
12	LMT	BA	105	-	36,36,36	1.08	5 (13%)	47,47,47	1.07	2 (4%)
15	HEC	C	402	3	32,50,50	1.97	3 (9%)	24,82,82	1.99	6 (25%)
13	V7N	AB	101	-	43,44,44	2.05	10 (23%)	44,54,54	1.61	12 (27%)
12	LMT	BS	1005	-	36,36,36	1.11	4 (11%)	47,47,47	0.86	0
13	V7N	be	102	-	43,44,44	2.02	9 (20%)	44,54,54	1.60	9 (20%)
11	BCL	AA	1002	26	58,74,74	1.26	5 (8%)	69,115,115	1.39	11 (15%)
12	LMT	BM	1002	-	36,36,36	1.08	5 (13%)	47,47,47	1.00	2 (4%)
12	LMT	BD	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.84	0
24	V7B	ag	103	-	59,59,59	0.89	4 (6%)	75,75,75	1.00	4 (5%)
14	0V9	be	104	-	44,44,46	0.76	1 (2%)	47,49,51	0.96	2 (4%)
11	BCL	AU	101	-	58,74,74	1.24	4 (6%)	69,115,115	1.42	12 (17%)
11	BCL	bh	102	-	58,74,74	1.22	3 (5%)	69,115,115	1.35	11 (15%)
12	LMT	BE	102	-	36,36,36	1.09	5 (13%)	47,47,47	0.99	1 (2%)
11	BCL	BR	102	-	58,74,74	1.21	3 (5%)	69,115,115	1.40	11 (15%)
14	0V9	AJ	104	-	44,44,46	0.74	1 (2%)	47,49,51	0.84	2 (4%)
21	BPH	M	404	-	51,70,70	0.84	1 (1%)	52,101,101	1.03	4 (7%)
12	LMT	L	305	-	36,36,36	1.11	5 (13%)	47,47,47	0.83	0
13	V7N	bd	101	-	43,44,44	2.04	9 (20%)	44,54,54	1.54	10 (22%)
11	BCL	al	1001	-	58,74,74	1.23	3 (5%)	69,115,115	1.33	9 (13%)
12	LMT	BU	1003	-	36,36,36	1.10	5 (13%)	47,47,47	0.91	2 (4%)
13	V7N	BC	101	-	43,44,44	2.03	9 (20%)	44,54,54	1.49	8 (18%)
11	BCL	bl	104	-	58,74,74	1.25	4 (6%)	69,115,115	1.41	10 (14%)
12	LMT	BK	1003	-	36,36,36	1.11	5 (13%)	47,47,47	0.86	1 (2%)
16	NDG	C	405	17	14,14,15	0.63	0	17,19,21	1.08	1 (5%)
12	LMT	bo	101	-	36,36,36	1.09	5 (13%)	47,47,47	0.84	0
12	LMT	BR	101	-	36,36,36	1.09	4 (11%)	47,47,47	0.89	0
11	BCL	ad	102	-	58,74,74	1.24	4 (6%)	69,115,115	1.37	9 (13%)
12	LMT	L	308	-	36,36,36	1.07	5 (13%)	47,47,47	0.86	1 (2%)
12	LMT	BF	101	-	36,36,36	1.09	5 (13%)	47,47,47	0.89	1 (2%)
12	LMT	BF	104	-	36,36,36	1.10	5 (13%)	47,47,47	1.12	3 (6%)
11	BCL	af	102	-	58,74,74	1.23	3 (5%)	69,115,115	1.38	9 (13%)
11	BCL	ac	1002	-	58,74,74	1.24	3 (5%)	69,115,115	1.33	10 (14%)
12	LMT	bl	102	-	36,36,36	1.07	5 (13%)	47,47,47	1.06	1 (2%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
11	BCL	AH	102	26	58,74,74	1.25	4 (6%)	69,115,115	1.46	14 (20%)
12	LMT	L	307	-	36,36,36	1.08	5 (13%)	47,47,47	0.98	3 (6%)
11	BCL	BK	1005	-	58,74,74	1.24	3 (5%)	69,115,115	1.47	13 (18%)
12	LMT	bd	102	-	36,36,36	1.09	5 (13%)	47,47,47	0.85	1 (2%)
18	CD4	H1	1001	-	83,83,83	0.48	0	89,95,95	1.01	5 (5%)
12	LMT	AK	101	-	36,36,36	1.07	5 (13%)	47,47,47	1.01	4 (8%)
12	LMT	BO	1004	-	36,36,36	1.10	5 (13%)	47,47,47	0.84	1 (2%)
12	LMT	BN	1003	-	36,36,36	1.09	5 (13%)	47,47,47	1.01	2 (4%)
11	BCL	AQ	101	26	58,74,74	1.27	4 (6%)	69,115,115	1.78	13 (18%)
12	LMT	bg	1001	-	36,36,36	1.12	5 (13%)	47,47,47	0.83	0
13	V7N	AE	101	-	43,44,44	2.06	9 (20%)	44,54,54	1.46	8 (18%)
12	LMT	AH	105	-	36,36,36	1.11	5 (13%)	47,47,47	0.93	2 (4%)
12	LMT	BT	1005	-	36,36,36	1.09	5 (13%)	47,47,47	0.98	2 (4%)
18	CD4	M	402	-	83,83,83	0.48	0	89,95,95	1.08	6 (6%)
12	LMT	ac	1001	-	36,36,36	1.10	5 (13%)	47,47,47	0.92	3 (6%)
11	BCL	AW	103	-	58,74,74	1.28	5 (8%)	69,115,115	1.49	13 (18%)
12	LMT	BA	102	-	36,36,36	1.07	5 (13%)	47,47,47	0.90	1 (2%)
11	BCL	ah	1001	-	58,74,74	1.26	4 (6%)	69,115,115	1.37	9 (13%)
14	0V9	bk	1003	-	44,44,46	0.76	1 (2%)	47,49,51	0.93	2 (4%)
11	BCL	AS	102	26	58,74,74	1.23	3 (5%)	69,115,115	1.33	11 (15%)
12	LMT	BJ	1002	-	36,36,36	1.06	4 (11%)	47,47,47	0.91	2 (4%)
12	LMT	BT	1003	-	36,36,36	1.05	5 (13%)	47,47,47	0.95	3 (6%)
12	LMT	BQ	1004	-	36,36,36	1.08	5 (13%)	47,47,47	0.91	1 (2%)
13	V7N	ba	102	-	43,44,44	2.13	9 (20%)	44,54,54	1.61	9 (20%)
12	LMT	BV	1005	-	36,36,36	1.10	5 (13%)	47,47,47	0.92	2 (4%)
13	V7N	bo	102	-	43,44,44	2.11	12 (27%)	44,54,54	1.53	9 (20%)
12	LMT	BI	101	-	36,36,36	1.09	5 (13%)	47,47,47	0.90	1 (2%)
14	0V9	bf	104	-	44,44,46	0.75	1 (2%)	47,49,51	0.87	3 (6%)
13	V7N	BN	1001	-	43,44,44	2.01	10 (23%)	44,54,54	1.53	9 (20%)
12	LMT	be	101	-	36,36,36	1.09	4 (11%)	47,47,47	0.90	2 (4%)
21	BPH	L	309	-	51,70,70	0.85	1 (1%)	52,101,101	1.12	7 (13%)
11	BCL	AV	101	-	58,74,74	1.24	4 (6%)	69,115,115	1.35	9 (13%)
12	LMT	BG	1002	-	36,36,36	1.08	5 (13%)	47,47,47	1.01	3 (6%)
13	V7N	bc	101	-	43,44,44	2.05	10 (23%)	44,54,54	1.51	8 (18%)
12	LMT	BP	1004	-	36,36,36	1.09	5 (13%)	47,47,47	0.94	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
13	V7N	AH	104	-	43,44,44	2.05	9 (20%)	44,54,54	1.73	11 (25%)
12	LMT	BH	1003	-	36,36,36	1.08	5 (13%)	47,47,47	0.94	1 (2%)
14	0V9	aj	101	-	44,44,46	0.75	1 (2%)	47,49,51	0.82	1 (2%)
13	V7N	BT	1001	-	43,44,44	2.02	10 (23%)	44,54,54	1.60	9 (20%)
14	0V9	H1	1002	-	44,44,46	0.77	1 (2%)	47,49,51	0.85	0
12	LMT	BB	102	-	36,36,36	1.10	5 (13%)	47,47,47	0.89	2 (4%)
14	0V9	bj	103	-	44,44,46	0.75	1 (2%)	47,49,51	0.85	2 (4%)
11	BCL	bp	104	-	58,74,74	1.25	3 (5%)	69,115,115	1.49	11 (15%)
13	V7N	bn	101	-	43,44,44	2.10	11 (25%)	44,54,54	1.54	8 (18%)
12	LMT	bj	102	-	36,36,36	1.10	5 (13%)	47,47,47	0.94	2 (4%)
12	LMT	BI	105	-	36,36,36	1.09	5 (13%)	47,47,47	0.92	2 (4%)
12	LMT	BP	1003	-	36,36,36	1.09	5 (13%)	47,47,47	1.00	2 (4%)
17	V75	C	406	10,16	18,18,18	1.59	5 (27%)	21,25,25	1.69	3 (14%)
12	LMT	BL	1004	-	36,36,36	1.07	5 (13%)	47,47,47	0.94	1 (2%)
12	LMT	BD	101	-	36,36,36	1.07	5 (13%)	47,47,47	1.02	2 (4%)
14	0V9	bb	104	-	44,44,46	0.74	1 (2%)	47,49,51	0.85	2 (4%)
11	BCL	an	1001	-	58,74,74	1.24	3 (5%)	69,115,115	1.33	10 (14%)
11	BCL	BN	1004	-	58,74,74	1.23	3 (5%)	69,115,115	1.41	12 (17%)
12	LMT	BJ	1003	-	36,36,36	1.08	4 (11%)	47,47,47	0.90	1 (2%)
13	V7N	BS	1001	-	43,44,44	1.99	10 (23%)	44,54,54	1.58	10 (22%)
18	CD4	M	409	-	83,83,83	0.47	0	89,95,95	1.02	5 (5%)
12	LMT	AT	104	-	36,36,36	1.09	5 (13%)	47,47,47	1.03	1 (2%)
12	LMT	AN	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.91	2 (4%)
12	LMT	bm	102	-	36,36,36	1.08	5 (13%)	47,47,47	0.89	2 (4%)
12	LMT	BH	1002	-	36,36,36	1.11	5 (13%)	47,47,47	0.98	2 (4%)
12	LMT	AI	102	-	36,36,36	1.07	4 (11%)	47,47,47	0.82	0
12	LMT	BI	104	-	36,36,36	1.08	5 (13%)	47,47,47	0.85	2 (4%)
11	BCL	AJ	102	-	58,74,74	1.25	4 (6%)	69,115,115	1.37	9 (13%)
12	LMT	AK	104	-	36,36,36	1.09	5 (13%)	47,47,47	0.99	2 (4%)
11	BCL	AB	103	-	58,74,74	1.23	3 (5%)	69,115,115	1.44	11 (15%)
11	BCL	L	303	-	58,74,74	1.20	3 (5%)	69,115,115	1.25	10 (14%)
12	LMT	BL	1002	-	36,36,36	1.11	5 (13%)	47,47,47	0.90	1 (2%)
11	BCL	BS	1006	-	58,74,74	1.31	4 (6%)	69,115,115	1.72	12 (17%)
11	BCL	AR	102	-	58,74,74	1.24	4 (6%)	69,115,115	1.35	9 (13%)
11	BCL	bb	103	-	58,74,74	1.22	3 (5%)	69,115,115	1.50	13 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	AE	104	-	36,36,36	1.08	5 (13%)	47,47,47	0.96	2 (4%)
13	V7N	BB	101	-	43,44,44	1.99	10 (23%)	44,54,54	1.49	9 (20%)
11	BCL	ai	101	-	58,74,74	1.25	4 (6%)	69,115,115	1.35	10 (14%)
13	V7N	AT	103	-	43,44,44	2.06	11 (25%)	44,54,54	1.46	8 (18%)
11	BCL	AJ	101	26	58,74,74	1.27	3 (5%)	69,115,115	1.53	13 (18%)
11	BCL	BM	1004	-	58,74,74	1.22	3 (5%)	69,115,115	1.41	13 (18%)
11	BCL	bg	1002	-	58,74,74	1.25	3 (5%)	69,115,115	1.35	11 (15%)
16	NDG	C1	301	17	14,14,15	0.64	0	17,19,21	1.06	2 (11%)
12	LMT	bk	1001	-	36,36,36	1.11	5 (13%)	47,47,47	0.86	1 (2%)
11	BCL	AL	103	-	58,74,74	1.28	4 (6%)	69,115,115	1.64	15 (21%)
13	V7N	BO	1001	-	43,44,44	2.05	9 (20%)	44,54,54	1.63	10 (22%)
11	BCL	AD	101	26	58,74,74	1.25	4 (6%)	69,115,115	1.49	14 (20%)
11	BCL	AV	104	26	58,74,74	1.30	4 (6%)	69,115,115	1.58	13 (18%)
11	BCL	BE	103	-	58,74,74	1.22	3 (5%)	69,115,115	1.37	12 (17%)
11	BCL	ao	102	-	58,74,74	1.23	3 (5%)	69,115,115	1.36	10 (14%)
19	PGW	H1	1003	-	50,50,50	0.46	0	53,56,56	0.92	3 (5%)
11	BCL	bj	104	-	58,74,74	1.23	3 (5%)	69,115,115	1.45	12 (17%)
13	V7N	bm	101	-	43,44,44	2.06	10 (23%)	44,54,54	1.53	9 (20%)
12	LMT	bo	103	-	36,36,36	1.10	5 (13%)	47,47,47	0.93	1 (2%)
23	CRT	M	405	-	41,43,43	0.57	0	50,54,54	0.86	3 (6%)
11	BCL	BP	1002	-	58,74,74	1.22	3 (5%)	69,115,115	1.41	12 (17%)
11	BCL	AU	102	-	58,74,74	1.24	4 (6%)	69,115,115	1.35	9 (13%)
13	V7N	BM	1001	-	43,44,44	2.01	9 (20%)	44,54,54	1.67	10 (22%)
11	BCL	AS	101	-	58,74,74	1.27	4 (6%)	69,115,115	1.40	11 (15%)
13	V7N	AQ	104	-	43,44,44	2.06	11 (25%)	44,54,54	1.73	11 (25%)
13	V7N	BV	1001	-	43,44,44	2.04	9 (20%)	44,54,54	1.67	7 (15%)
11	BCL	M	406	-	58,74,74	1.22	3 (5%)	69,115,115	1.31	10 (14%)
11	BCL	AN	105	-	58,74,74	1.33	6 (10%)	69,115,115	1.38	10 (14%)
12	LMT	be	103	-	36,36,36	1.11	5 (13%)	47,47,47	0.84	0
18	CD4	ae	102	-	83,83,83	0.49	0	89,95,95	1.13	6 (6%)
11	BCL	AM	102	-	58,74,74	1.21	3 (5%)	69,115,115	1.35	9 (13%)
15	HEC	C	404	3	32,50,50	2.02	3 (9%)	24,82,82	1.80	5 (20%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the

Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.  
'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	BR	104	-	-	6/21/61/61	0/2/2/2
11	BCL	BH	1004	-	-	8/37/137/137	-
11	BCL	AB	105	-	-	9/37/137/137	-
12	LMT	AQ	103	-	-	4/21/61/61	0/2/2/2
12	LMT	BG	1005	-	-	1/21/61/61	0/2/2/2
12	LMT	bf	102	-	-	8/21/61/61	0/2/2/2
11	BCL	AH	101	-	-	0/37/137/137	-
12	LMT	bp	102	-	-	4/21/61/61	0/2/2/2
11	BCL	L	304	-	-	4/37/137/137	-
11	BCL	M	403	-	-	3/37/137/137	-
12	LMT	AR	103	-	-	6/21/61/61	0/2/2/2
13	V7N	bj	101	-	-	5/53/53/53	-
13	V7N	bb	101	-	-	9/53/53/53	-
11	BCL	AB	102	26	-	3/37/137/137	-
15	HEC	C	403	3	-	0/10/54/54	-
20	MQ8	ao	101	-	-	10/47/67/67	0/2/2/2
11	BCL	aa	1001	-	-	4/37/137/137	-
11	BCL	am	1001	-	-	9/37/137/137	-
12	LMT	AM	103	-	-	4/21/61/61	0/2/2/2
11	BCL	AC	1001	-	-	4/37/137/137	-
11	BCL	BA	103	-	-	5/37/137/137	-
11	BCL	ag	102	-	-	3/37/137/137	-
12	LMT	BE	104	-	-	4/21/61/61	0/2/2/2
11	BCL	AF	102	-	-	3/37/137/137	-
12	LMT	BS	1003	-	-	5/21/61/61	0/2/2/2
12	LMT	BK	1002	-	-	5/21/61/61	0/2/2/2
13	V7N	bi	102	-	-	4/53/53/53	-
11	BCL	be	105	-	-	4/37/137/137	-
12	LMT	AS	103	-	-	7/21/61/61	0/2/2/2
13	V7N	AE	105	-	-	6/53/53/53	-
11	BCL	BC	105	-	-	3/37/137/137	-
11	BCL	BQ	1002	-	-	7/37/137/137	-
11	BCL	AI	101	-	-	10/37/137/137	-
12	LMT	BX	101	-	-	5/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	BN	1002	-	-	4/21/61/61	0/2/2/2
12	LMT	BD	105	-	-	4/21/61/61	0/2/2/2
12	LMT	BK	1004	-	-	5/21/61/61	0/2/2/2
11	BCL	AN	102	26	-	3/37/137/137	-
12	LMT	AE	106	-	-	3/21/61/61	0/2/2/2
12	LMT	AW	102	-	-	1/21/61/61	0/2/2/2
11	BCL	AP	101	26	-	4/37/137/137	-
12	LMT	BS	1002	-	-	5/21/61/61	0/2/2/2
12	LMT	BF	103	-	-	7/21/61/61	0/2/2/2
24	V7B	af	101	-	-	7/48/88/88	0/2/2/2
12	LMT	bb	105	-	-	6/21/61/61	0/2/2/2
11	BCL	AE	102	-	-	12/37/137/137	-
12	LMT	BW	1004	-	-	4/21/61/61	0/2/2/2
11	BCL	BJ	1004	-	-	9/37/137/137	-
12	LMT	bi	104	-	-	5/21/61/61	0/2/2/2
12	LMT	AJ	103	-	-	6/21/61/61	0/2/2/2
12	LMT	L	306	-	-	4/21/61/61	0/2/2/2
11	BCL	AS	104	26	-	4/37/137/137	-
11	BCL	AI	103	-	-	2/37/137/137	-
11	BCL	bf	103	-	-	9/37/137/137	-
12	LMT	BD	102	-	-	1/21/61/61	0/2/2/2
12	LMT	BA	104	-	-	6/21/61/61	0/2/2/2
11	BCL	BB	105	-	-	11/37/137/137	-
11	BCL	BU	1001	-	-	9/37/137/137	-
12	LMT	AG	103	-	-	8/21/61/61	0/2/2/2
20	MQ8	M	407	-	-	4/47/67/67	0/2/2/2
11	BCL	AN	103	-	-	7/37/137/137	-
13	V7N	bp	101	-	-	4/53/53/53	-
12	LMT	BC	104	-	-	4/21/61/61	0/2/2/2
12	LMT	BV	1003	-	-	4/21/61/61	0/2/2/2
12	LMT	BL	1006	-	-	5/21/61/61	0/2/2/2
11	BCL	AE	103	-	-	2/37/137/137	-
12	LMT	AT	102	-	-	6/21/61/61	0/2/2/2
13	V7N	bh	101	-	-	4/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	V7N	BJ	1001	-	-	3/53/53/53	-
11	BCL	bk	1002	-	-	8/37/137/137	-
11	BCL	ba	103	-	-	2/37/137/137	-
14	0V9	bd	104	-	-	7/48/48/50	-
12	LMT	BO	1003	-	-	4/21/61/61	0/2/2/2
14	0V9	bb	102	-	-	12/48/48/50	-
11	BCL	AK	103	26	-	11/37/137/137	-
12	LMT	AD	103	-	-	5/21/61/61	0/2/2/2
12	LMT	AP	103	-	-	7/21/61/61	0/2/2/2
11	BCL	AF	101	-	-	8/37/137/137	-
12	LMT	BV	1004	-	-	2/21/61/61	0/2/2/2
11	BCL	ab	101	-	-	6/37/137/137	-
12	LMT	BS	1004	-	-	3/21/61/61	0/2/2/2
11	BCL	AA	1001	-	-	1/37/137/137	-
13	V7N	AW	104	-	-	5/53/53/53	-
12	LMT	ba	101	-	-	5/21/61/61	0/2/2/2
12	LMT	BR	103	-	-	8/21/61/61	0/2/2/2
13	V7N	BL	1001	-	-	4/53/53/53	-
12	LMT	BM	1003	-	-	2/21/61/61	0/2/2/2
11	BCL	AG	101	-	-	2/37/137/137	-
12	LMT	BA	101	-	-	3/21/61/61	0/2/2/2
11	BCL	AV	102	26	-	3/37/137/137	-
12	LMT	AL	104	-	-	7/21/61/61	0/2/2/2
11	BCL	bd	103	-	-	11/37/137/137	-
17	V75	M	410	10,16	-	0/12/29/29	0/1/1/1
11	BCL	BG	1003	-	-	12/37/137/137	-
11	BCL	AW	101	-	-	2/37/137/137	-
12	LMT	AB	104	-	-	2/21/61/61	0/2/2/2
12	LMT	AN	101	-	-	7/21/61/61	0/2/2/2
12	LMT	AL	101	-	-	5/21/61/61	0/2/2/2
12	LMT	BW	1003	-	-	4/21/61/61	0/2/2/2
13	V7N	BQ	1001	-	-	7/53/53/53	-
11	BCL	AD	102	-	-	1/37/137/137	-
11	BCL	BT	1002	-	-	12/37/137/137	-
11	BCL	ae	101	-	-	8/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	bn	103	-	-	7/21/61/61	0/2/2/2
11	BCL	BO	1005	-	-	6/37/137/137	-
11	BCL	AM	101	26	-	7/37/137/137	-
13	V7N	BE	101	-	-	4/53/53/53	-
12	LMT	M	408	-	-	4/21/61/61	0/2/2/2
12	LMT	BL	1003	-	-	5/21/61/61	0/2/2/2
14	0V9	L	310	-	-	9/48/48/50	-
13	V7N	BP	1001	-	-	4/53/53/53	-
11	BCL	AT	101	-	-	1/37/137/137	-
11	BCL	aj	102	-	-	7/37/137/137	-
12	LMT	BI	103	-	-	7/21/61/61	0/2/2/2
11	BCL	AQ	102	-	-	4/37/137/137	-
14	0V9	bi	103	-	-	10/48/48/50	-
13	V7N	BW	1001	-	-	6/53/53/53	-
18	CD4	ag	101	-	-	16/94/94/94	-
11	BCL	ap	1001	-	-	5/37/137/137	-
14	0V9	bl	103	-	-	9/48/48/50	-
14	0V9	bo	104	-	-	10/48/48/50	-
11	BCL	bo	105	-	-	3/37/137/137	-
25	UYH	ai	102	-	-	10/50/70/70	0/1/1/1
12	LMT	H2	201	-	-	5/21/61/61	0/2/2/2
12	LMT	BC	102	-	-	1/21/61/61	0/2/2/2
12	LMT	BM	1005	-	-	4/21/61/61	0/2/2/2
13	V7N	bl	101	-	-	6/53/53/53	-
15	HEC	C	401	3	-	2/10/54/54	-
13	V7N	BK	1001	-	-	5/53/53/53	-
14	0V9	bm	104	-	-	13/48/48/50	-
18	CD4	ad	101	-	-	15/94/94/94	-
12	LMT	AV	103	-	-	6/21/61/61	0/2/2/2
11	BCL	BV	1002	-	-	9/37/137/137	-
11	BCL	AR	101	-	-	9/37/137/137	-
13	V7N	aj	103	-	-	4/53/53/53	-
11	BCL	BL	1005	-	-	10/37/137/137	-
12	LMT	BB	104	-	-	3/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	BG	1004	-	-	2/21/61/61	0/2/2/2
13	V7N	af	103	-	-	7/53/53/53	-
11	BCL	AP	102	-	-	5/37/137/137	-
12	LMT	BU	1002	-	-	5/21/61/61	0/2/2/2
12	LMT	BN	1005	-	-	1/21/61/61	0/2/2/2
14	0V9	AQ	105	-	-	10/48/48/50	-
12	LMT	AA	1003	-	-	8/21/61/61	0/2/2/2
14	0V9	bi	105	-	-	11/48/48/50	-
11	BCL	bm	103	-	-	9/37/137/137	-
11	BCL	AX	101	-	-	4/37/137/137	-
13	V7N	BG	1001	-	-	2/53/53/53	-
14	0V9	bc	103	-	-	14/48/48/50	-
13	V7N	bf	101	-	-	5/53/53/53	-
12	LMT	bc	102	-	-	6/21/61/61	0/2/2/2
11	BCL	bn	104	-	-	9/37/137/137	-
12	LMT	BP	1005	-	-	5/21/61/61	0/2/2/2
14	0V9	bp	103	-	-	12/48/48/50	-
12	LMT	L	301	-	-	3/21/61/61	0/2/2/2
13	V7N	BH	1001	-	-	4/53/53/53	-
12	LMT	bi	101	-	-	1/21/61/61	0/2/2/2
12	LMT	AH	103	-	-	5/21/61/61	0/2/2/2
11	BCL	BF	102	-	-	12/37/137/137	-
12	LMT	BB	103	-	-	3/21/61/61	0/2/2/2
11	BCL	AL	102	-	-	6/37/137/137	-
11	BCL	ak	101	-	-	11/37/137/137	-
11	BCL	AG	102	26	-	10/37/137/137	-
11	BCL	bi	106	-	-	10/37/137/137	-
12	LMT	BT	1004	-	-	5/21/61/61	0/2/2/2
14	0V9	bn	102	-	-	11/48/48/50	-
20	MQ8	L	302	-	-	10/47/67/67	0/2/2/2
12	LMT	BQ	1003	-	-	5/21/61/61	0/2/2/2
12	LMT	BX	102	-	-	7/21/61/61	0/2/2/2
11	BCL	BW	1002	-	-	7/37/137/137	-
11	BCL	BI	102	-	-	10/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	BC	103	-	-	2/21/61/61	0/2/2/2
12	LMT	BO	1002	-	-	4/21/61/61	0/2/2/2
12	LMT	BU	1004	-	-	5/21/61/61	0/2/2/2
11	BCL	AO	101	-	-	1/37/137/137	-
11	BCL	BX	103	-	-	7/37/137/137	-
11	BCL	bc	104	-	-	6/37/137/137	-
11	BCL	AK	102	-	-	1/37/137/137	-
11	BCL	BD	103	-	-	6/37/137/137	-
12	LMT	BH	1005	-	-	4/21/61/61	0/2/2/2
12	LMT	BA	105	-	-	6/21/61/61	0/2/2/2
15	HEC	C	402	3	-	5/10/54/54	-
13	V7N	AB	101	-	-	4/53/53/53	-
12	LMT	BS	1005	-	-	4/21/61/61	0/2/2/2
13	V7N	be	102	-	-	3/53/53/53	-
11	BCL	AA	1002	26	-	9/37/137/137	-
12	LMT	BM	1002	-	-	5/21/61/61	0/2/2/2
12	LMT	BD	104	-	-	5/21/61/61	0/2/2/2
24	V7B	ag	103	-	-	13/48/88/88	0/2/2/2
14	0V9	be	104	-	-	10/48/48/50	-
11	BCL	AU	101	-	-	6/37/137/137	-
11	BCL	bh	102	-	-	14/37/137/137	-
12	LMT	BE	102	-	-	6/21/61/61	0/2/2/2
11	BCL	BR	102	-	-	4/37/137/137	-
14	0V9	AJ	104	-	-	20/48/48/50	-
21	BPH	M	404	-	-	5/37/105/105	0/5/6/6
12	LMT	L	305	-	-	1/21/61/61	0/2/2/2
13	V7N	bd	101	-	-	3/53/53/53	-
11	BCL	al	1001	-	-	5/37/137/137	-
12	LMT	BU	1003	-	-	2/21/61/61	0/2/2/2
13	V7N	BC	101	-	-	5/53/53/53	-
11	BCL	bl	104	-	-	6/37/137/137	-
12	LMT	BK	1003	-	-	2/21/61/61	0/2/2/2
16	NDG	C	405	17	-	0/6/23/26	0/1/1/1
12	LMT	bo	101	-	-	1/21/61/61	0/2/2/2
12	LMT	BR	101	-	-	5/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	ad	102	-	-	7/37/137/137	-
12	LMT	L	308	-	-	3/21/61/61	0/2/2/2
12	LMT	BF	101	-	-	4/21/61/61	0/2/2/2
12	LMT	BF	104	-	-	5/21/61/61	0/2/2/2
11	BCL	af	102	-	-	8/37/137/137	-
11	BCL	ac	1002	-	-	4/37/137/137	-
12	LMT	bl	102	-	-	5/21/61/61	0/2/2/2
11	BCL	AH	102	26	-	10/37/137/137	-
12	LMT	L	307	-	-	2/21/61/61	0/2/2/2
11	BCL	BK	1005	-	-	7/37/137/137	-
12	LMT	bd	102	-	-	5/21/61/61	0/2/2/2
18	CD4	H1	1001	-	-	23/94/94/94	-
12	LMT	AK	101	-	-	6/21/61/61	0/2/2/2
12	LMT	BO	1004	-	-	2/21/61/61	0/2/2/2
12	LMT	BN	1003	-	-	5/21/61/61	0/2/2/2
11	BCL	AQ	101	26	-	8/37/137/137	-
12	LMT	bg	1001	-	-	8/21/61/61	0/2/2/2
13	V7N	AE	101	-	-	1/53/53/53	-
12	LMT	AH	105	-	-	7/21/61/61	0/2/2/2
12	LMT	BT	1005	-	-	4/21/61/61	0/2/2/2
18	CD4	M	402	-	-	14/94/94/94	-
12	LMT	ac	1001	-	-	4/21/61/61	0/2/2/2
11	BCL	AW	103	-	-	12/37/137/137	-
12	LMT	BA	102	-	-	5/21/61/61	0/2/2/2
11	BCL	ah	1001	-	-	5/37/137/137	-
14	0V9	bk	1003	-	-	18/48/48/50	-
11	BCL	AS	102	26	-	8/37/137/137	-
12	LMT	BJ	1002	-	-	8/21/61/61	0/2/2/2
12	LMT	BT	1003	-	-	7/21/61/61	0/2/2/2
12	LMT	BQ	1004	-	-	0/21/61/61	0/2/2/2
13	V7N	ba	102	-	-	6/53/53/53	-
12	LMT	BV	1005	-	-	2/21/61/61	0/2/2/2
13	V7N	bo	102	-	-	8/53/53/53	-
12	LMT	BI	101	-	-	4/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	0V9	bf	104	-	-	15/48/48/50	-
13	V7N	BN	1001	-	-	4/53/53/53	-
12	LMT	be	101	-	-	3/21/61/61	0/2/2/2
21	BPH	L	309	-	-	4/37/105/105	0/5/6/6
11	BCL	AV	101	-	-	2/37/137/137	-
12	LMT	BG	1002	-	-	8/21/61/61	0/2/2/2
13	V7N	bc	101	-	-	6/53/53/53	-
12	LMT	BP	1004	-	-	0/21/61/61	0/2/2/2
13	V7N	AH	104	-	-	6/53/53/53	-
12	LMT	BH	1003	-	-	4/21/61/61	0/2/2/2
14	0V9	aj	101	-	-	11/48/48/50	-
13	V7N	BT	1001	-	-	3/53/53/53	-
14	0V9	H1	1002	-	-	11/48/48/50	-
12	LMT	BB	102	-	-	1/21/61/61	0/2/2/2
14	0V9	bj	103	-	-	9/48/48/50	-
11	BCL	bp	104	-	-	8/37/137/137	-
13	V7N	bn	101	-	-	7/53/53/53	-
12	LMT	bj	102	-	-	4/21/61/61	0/2/2/2
12	LMT	BI	105	-	-	1/21/61/61	0/2/2/2
12	LMT	BP	1003	-	-	5/21/61/61	0/2/2/2
17	V75	C	406	10,16	-	0/12/29/29	0/1/1/1
12	LMT	BL	1004	-	-	5/21/61/61	0/2/2/2
12	LMT	BD	101	-	-	8/21/61/61	0/2/2/2
14	0V9	bb	104	-	-	5/48/48/50	-
11	BCL	an	1001	-	-	4/37/137/137	-
11	BCL	BN	1004	-	-	11/37/137/137	-
12	LMT	BJ	1003	-	-	2/21/61/61	0/2/2/2
13	V7N	BS	1001	-	-	3/53/53/53	-
18	CD4	M	409	-	-	21/94/94/94	-
12	LMT	AT	104	-	-	6/21/61/61	0/2/2/2
12	LMT	AN	104	-	-	1/21/61/61	0/2/2/2
12	LMT	bm	102	-	-	2/21/61/61	0/2/2/2
12	LMT	BH	1002	-	-	3/21/61/61	0/2/2/2
12	LMT	AI	102	-	-	3/21/61/61	0/2/2/2
12	LMT	BI	104	-	-	2/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	AJ	102	-	-	4/37/137/137	-
12	LMT	AK	104	-	-	5/21/61/61	0/2/2/2
11	BCL	AB	103	-	-	2/37/137/137	-
11	BCL	L	303	-	-	2/37/137/137	-
12	LMT	BL	1002	-	-	5/21/61/61	0/2/2/2
11	BCL	BS	1006	-	-	8/37/137/137	-
11	BCL	AR	102	-	-	7/37/137/137	-
11	BCL	bb	103	-	-	9/37/137/137	-
12	LMT	AE	104	-	-	5/21/61/61	0/2/2/2
13	V7N	BB	101	-	-	9/53/53/53	-
11	BCL	ai	101	-	-	6/37/137/137	-
13	V7N	AT	103	-	-	8/53/53/53	-
11	BCL	AJ	101	26	-	8/37/137/137	-
11	BCL	BM	1004	-	-	6/37/137/137	-
11	BCL	bg	1002	-	-	7/37/137/137	-
16	NDG	C1	301	17	-	0/6/23/26	0/1/1/1
12	LMT	bk	1001	-	-	6/21/61/61	0/2/2/2
11	BCL	AL	103	-	-	10/37/137/137	-
13	V7N	BO	1001	-	-	7/53/53/53	-
11	BCL	AD	101	26	-	13/37/137/137	-
11	BCL	AV	104	26	-	11/37/137/137	-
11	BCL	BE	103	-	-	8/37/137/137	-
11	BCL	ao	102	-	-	6/37/137/137	-
19	PGW	H1	1003	-	-	17/55/55/55	-
11	BCL	bj	104	-	-	8/37/137/137	-
13	V7N	bm	101	-	-	4/53/53/53	-
12	LMT	bo	103	-	-	9/21/61/61	0/2/2/2
23	CRT	M	405	-	-	5/51/51/51	-
11	BCL	BP	1002	-	-	11/37/137/137	-
11	BCL	AU	102	-	-	2/37/137/137	-
13	V7N	BM	1001	-	-	3/53/53/53	-
11	BCL	AS	101	-	-	4/37/137/137	-
13	V7N	AQ	104	-	-	5/53/53/53	-
13	V7N	BV	1001	-	-	3/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	M	406	-	-	4/37/137/137	-
11	BCL	AN	105	-	-	7/37/137/137	-
12	LMT	be	103	-	-	5/21/61/61	0/2/2/2
18	CD4	ae	102	-	-	24/94/94/94	-
11	BCL	AM	102	-	-	2/37/137/137	-
15	HEC	C	404	3	-	4/10/54/54	-

All (1437) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bn	101	V7N	C28-C27	7.11	1.52	1.34
13	ba	102	V7N	C28-C27	7.09	1.52	1.34
13	AE	101	V7N	C28-C27	7.04	1.52	1.34
13	BH	1001	V7N	C28-C27	7.03	1.52	1.34
13	AW	104	V7N	C28-C27	7.02	1.52	1.34
13	BT	1001	V7N	C28-C27	7.02	1.52	1.34
13	BV	1001	V7N	C28-C27	7.01	1.52	1.34
13	bi	102	V7N	C28-C27	7.00	1.52	1.34
13	bo	102	V7N	C28-C27	6.98	1.52	1.34
13	AT	103	V7N	C28-C27	6.97	1.52	1.34
13	BO	1001	V7N	C28-C27	6.96	1.52	1.34
13	BP	1001	V7N	C28-C27	6.96	1.52	1.34
13	AH	104	V7N	C28-C27	6.95	1.52	1.34
13	BG	1001	V7N	C28-C27	6.94	1.52	1.34
13	bb	101	V7N	C28-C27	6.92	1.52	1.34
13	be	102	V7N	C28-C27	6.92	1.52	1.34
13	bp	101	V7N	C28-C27	6.91	1.52	1.34
13	BB	101	V7N	C28-C27	6.91	1.52	1.34
13	BE	101	V7N	C28-C27	6.90	1.52	1.34
13	af	103	V7N	C28-C27	6.90	1.52	1.34
13	AB	101	V7N	C28-C27	6.89	1.52	1.34
13	bc	101	V7N	C28-C27	6.89	1.52	1.34
13	bh	101	V7N	C28-C27	6.87	1.52	1.34
13	bm	101	V7N	C28-C27	6.87	1.52	1.34
13	AQ	104	V7N	C28-C27	6.85	1.52	1.34
13	AE	105	V7N	C28-C27	6.85	1.52	1.34
13	BL	1001	V7N	C28-C27	6.85	1.52	1.34
13	aj	103	V7N	C28-C27	6.85	1.52	1.34
13	BM	1001	V7N	C28-C27	6.84	1.52	1.34
13	BS	1001	V7N	C28-C27	6.84	1.52	1.34
13	bd	101	V7N	C28-C27	6.84	1.52	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	BC	101	V7N	C28-C27	6.84	1.52	1.34
13	BJ	1001	V7N	C28-C27	6.83	1.52	1.34
13	bl	101	V7N	C28-C27	6.83	1.52	1.34
13	BN	1001	V7N	C28-C27	6.82	1.52	1.34
13	BK	1001	V7N	C28-C27	6.81	1.52	1.34
13	BW	1001	V7N	C28-C27	6.79	1.52	1.34
13	bj	101	V7N	C28-C27	6.76	1.52	1.34
13	bf	101	V7N	C28-C27	6.75	1.52	1.34
13	BQ	1001	V7N	C28-C27	6.74	1.51	1.34
15	C	404	HEC	C2B-C3B	-5.59	1.34	1.40
15	C	404	HEC	C3C-C2C	-5.52	1.35	1.40
15	C	402	HEC	C3C-C2C	-5.41	1.35	1.40
15	C	403	HEC	C3C-C2C	-5.39	1.35	1.40
15	C	402	HEC	C2B-C3B	-5.32	1.35	1.40
15	C	403	HEC	C2B-C3B	-5.29	1.35	1.40
15	C	401	HEC	C3C-C2C	-5.29	1.35	1.40
15	C	403	HEC	C3D-C2D	5.26	1.53	1.37
11	AF	101	BCL	MG-NA	5.25	2.18	2.06
15	C	404	HEC	C3D-C2D	5.24	1.53	1.37
15	C	402	HEC	C3D-C2D	5.24	1.53	1.37
11	AX	101	BCL	MG-NA	5.23	2.18	2.06
13	ba	102	V7N	C14-C13	5.22	1.42	1.35
15	C	401	HEC	C3D-C2D	5.22	1.53	1.37
11	AV	101	BCL	MG-NA	5.20	2.18	2.06
11	AO	101	BCL	MG-NA	5.18	2.18	2.06
11	AB	105	BCL	MG-NA	5.17	2.18	2.06
11	AP	102	BCL	MG-NA	5.17	2.18	2.06
11	AD	102	BCL	MG-NA	5.17	2.18	2.06
11	AJ	102	BCL	MG-NA	5.14	2.18	2.06
11	AS	101	BCL	MG-NA	5.14	2.18	2.06
11	AC	1001	BCL	MG-NA	5.13	2.18	2.06
11	AL	102	BCL	MG-NA	5.12	2.18	2.06
15	C	401	HEC	C2B-C3B	-5.12	1.35	1.40
11	AR	102	BCL	MG-NA	5.11	2.18	2.06
11	AI	101	BCL	MG-NA	5.10	2.18	2.06
11	AV	104	BCL	C1B-NB	5.09	1.39	1.35
11	bl	104	BCL	MG-NA	5.08	2.18	2.06
11	AU	102	BCL	MG-NA	5.08	2.18	2.06
13	bo	102	V7N	C14-C13	5.08	1.42	1.35
11	AB	103	BCL	MG-NA	5.08	2.18	2.06
11	AW	101	BCL	MG-NA	5.08	2.18	2.06
11	AE	102	BCL	C1B-NB	5.07	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AQ	102	BCL	MG-NA	5.07	2.18	2.06
11	AA	1001	BCL	MG-NA	5.07	2.18	2.06
11	AG	101	BCL	MG-NA	5.06	2.18	2.06
11	AN	105	BCL	MG-NA	5.05	2.18	2.06
11	AJ	101	BCL	MG-NA	5.05	2.18	2.06
13	aj	103	V7N	C14-C13	5.04	1.42	1.35
11	ak	101	BCL	MG-NA	5.04	2.18	2.06
11	AM	102	BCL	MG-NA	5.03	2.18	2.06
11	AK	102	BCL	MG-NA	5.03	2.18	2.06
11	AN	102	BCL	MG-NA	5.03	2.18	2.06
11	AQ	101	BCL	C1B-NB	5.02	1.39	1.35
13	bl	101	V7N	C14-C13	5.02	1.42	1.35
11	AU	101	BCL	MG-NA	5.02	2.18	2.06
11	AF	101	BCL	C1B-NB	5.02	1.39	1.35
11	AJ	101	BCL	C1B-NB	5.02	1.39	1.35
11	AS	104	BCL	C1B-NB	5.01	1.39	1.35
11	AT	101	BCL	MG-NA	5.01	2.18	2.06
13	bn	101	V7N	C14-C13	5.01	1.42	1.35
11	AF	102	BCL	MG-NA	5.01	2.18	2.06
11	AI	103	BCL	MG-NA	5.00	2.18	2.06
11	aa	1001	BCL	MG-NA	5.00	2.18	2.06
11	AK	103	BCL	C1B-NB	5.00	1.39	1.35
11	AN	103	BCL	MG-NA	5.00	2.18	2.06
13	bb	101	V7N	C14-C13	4.99	1.42	1.35
11	AP	101	BCL	C1B-NB	4.99	1.39	1.35
11	AE	103	BCL	MG-NA	4.99	2.18	2.06
13	af	103	V7N	C14-C13	4.98	1.42	1.35
11	AL	103	BCL	C1B-NB	4.98	1.39	1.35
11	AW	103	BCL	MG-NA	4.98	2.18	2.06
11	AN	102	BCL	C1B-NB	4.98	1.39	1.35
11	AV	102	BCL	MG-NA	4.98	2.18	2.06
11	AH	101	BCL	MG-NA	4.97	2.18	2.06
13	bp	101	V7N	C14-C13	4.97	1.42	1.35
11	AL	103	BCL	MG-NA	4.97	2.18	2.06
11	ah	1001	BCL	MG-NA	4.97	2.18	2.06
11	am	1001	BCL	C1B-NB	4.97	1.39	1.35
13	bf	101	V7N	C14-C13	4.97	1.42	1.35
11	ae	101	BCL	C1B-NB	4.96	1.39	1.35
11	AS	102	BCL	C1B-NB	4.95	1.39	1.35
11	ad	102	BCL	MG-NA	4.95	2.18	2.06
11	AA	1002	BCL	MG-NA	4.94	2.18	2.06
11	ab	101	BCL	C1B-NB	4.94	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AD	101	BCL	C1B-NB	4.94	1.39	1.35
11	ap	1001	BCL	MG-NA	4.94	2.18	2.06
11	AV	102	BCL	C1B-NB	4.94	1.39	1.35
11	bd	103	BCL	C1B-NB	4.94	1.39	1.35
13	AQ	104	V7N	C14-C13	4.94	1.42	1.35
11	AM	101	BCL	C1B-NB	4.93	1.39	1.35
11	bk	1002	BCL	MG-NA	4.93	2.18	2.06
11	M	403	BCL	MG-NA	4.93	2.18	2.06
11	AW	103	BCL	C1B-NB	4.92	1.39	1.35
11	ao	102	BCL	MG-NA	4.92	2.18	2.06
11	ao	102	BCL	C1B-NB	4.92	1.39	1.35
11	AB	105	BCL	C1B-NB	4.91	1.39	1.35
11	AG	102	BCL	C1B-NB	4.91	1.39	1.35
11	ai	101	BCL	MG-NA	4.91	2.17	2.06
11	AB	102	BCL	C1B-NB	4.91	1.39	1.35
11	AH	102	BCL	C1B-NB	4.91	1.39	1.35
11	AR	101	BCL	C1B-NB	4.90	1.39	1.35
13	bm	101	V7N	C14-C13	4.90	1.42	1.35
11	ae	101	BCL	MG-NA	4.90	2.17	2.06
11	an	1001	BCL	MG-NA	4.90	2.17	2.06
11	AP	101	BCL	MG-NA	4.90	2.17	2.06
11	ag	102	BCL	C1B-NB	4.90	1.39	1.35
11	af	102	BCL	MG-NA	4.89	2.17	2.06
11	AF	102	BCL	C1B-NB	4.89	1.39	1.35
11	AI	101	BCL	C1B-NB	4.89	1.39	1.35
11	bg	1002	BCL	C1B-NB	4.89	1.39	1.35
11	ac	1002	BCL	C1B-NB	4.89	1.39	1.35
11	aa	1001	BCL	C1B-NB	4.89	1.39	1.35
11	bd	103	BCL	MG-NA	4.88	2.17	2.06
11	ac	1002	BCL	MG-NA	4.88	2.17	2.06
11	AR	101	BCL	MG-NA	4.88	2.17	2.06
11	am	1001	BCL	MG-NA	4.88	2.17	2.06
11	bc	104	BCL	MG-NA	4.88	2.17	2.06
11	M	406	BCL	C1B-NB	4.88	1.39	1.35
11	aj	102	BCL	C1B-NB	4.87	1.39	1.35
11	ab	101	BCL	MG-NA	4.87	2.17	2.06
11	ag	102	BCL	MG-NA	4.87	2.17	2.06
11	AE	103	BCL	C1B-NB	4.87	1.39	1.35
11	be	105	BCL	C1B-NB	4.87	1.39	1.35
13	AT	103	V7N	C14-C13	4.87	1.42	1.35
11	BD	103	BCL	MG-NA	4.87	2.17	2.06
11	bh	102	BCL	MG-NA	4.87	2.17	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bo	102	V7N	C17-C18	4.86	1.42	1.35
11	AA	1002	BCL	C1B-NB	4.86	1.39	1.35
11	BM	1004	BCL	MG-NA	4.86	2.17	2.06
11	bo	105	BCL	C1B-NB	4.85	1.39	1.35
13	bi	102	V7N	C14-C13	4.85	1.42	1.35
11	BG	1003	BCL	MG-NA	4.85	2.17	2.06
11	AB	103	BCL	C1B-NB	4.85	1.39	1.35
11	ai	101	BCL	C1B-NB	4.85	1.39	1.35
11	BP	1002	BCL	MG-NA	4.85	2.17	2.06
11	AJ	102	BCL	C1B-NB	4.85	1.39	1.35
11	bp	104	BCL	C1B-NB	4.85	1.39	1.35
11	AG	101	BCL	C1B-NB	4.85	1.39	1.35
11	ba	103	BCL	MG-NA	4.84	2.17	2.06
11	AS	104	BCL	MG-NA	4.84	2.17	2.06
11	ah	1001	BCL	C1B-NB	4.84	1.39	1.35
11	af	102	BCL	C1B-NB	4.84	1.39	1.35
11	bf	103	BCL	MG-NA	4.84	2.17	2.06
11	AU	101	BCL	C1B-NB	4.83	1.39	1.35
13	bh	101	V7N	C14-C13	4.83	1.42	1.35
11	AI	103	BCL	C1B-NB	4.83	1.39	1.35
11	AV	101	BCL	C1B-NB	4.83	1.39	1.35
11	bo	105	BCL	MG-NA	4.83	2.17	2.06
11	BN	1004	BCL	MG-NA	4.83	2.17	2.06
11	AE	102	BCL	MG-NA	4.83	2.17	2.06
11	AN	105	BCL	C1B-NB	4.82	1.39	1.35
11	AC	1001	BCL	C1B-NB	4.82	1.39	1.35
11	L	304	BCL	MG-NA	4.82	2.17	2.06
13	bc	101	V7N	C14-C13	4.82	1.42	1.35
11	AW	101	BCL	C1B-NB	4.82	1.39	1.35
11	AA	1001	BCL	C1B-NB	4.81	1.39	1.35
11	aj	102	BCL	MG-NA	4.81	2.17	2.06
11	bj	104	BCL	MG-NA	4.81	2.17	2.06
11	AH	101	BCL	C1B-NB	4.81	1.39	1.35
13	AE	101	V7N	C14-C13	4.81	1.42	1.35
11	AO	101	BCL	C1B-NB	4.81	1.39	1.35
11	bk	1002	BCL	C1B-NB	4.81	1.39	1.35
13	ba	102	V7N	C17-C18	4.80	1.42	1.35
11	AM	102	BCL	C1B-NB	4.80	1.39	1.35
11	AG	102	BCL	MG-NA	4.80	2.17	2.06
11	BH	1004	BCL	MG-NA	4.80	2.17	2.06
11	AQ	102	BCL	C1B-NB	4.80	1.39	1.35
11	ak	101	BCL	C1B-NB	4.80	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	ba	103	BCL	C1B-NB	4.80	1.39	1.35
11	bb	103	BCL	C1B-NB	4.80	1.39	1.35
11	BK	1005	BCL	MG-NA	4.80	2.17	2.06
11	BB	105	BCL	MG-NA	4.80	2.17	2.06
13	bj	101	V7N	C14-C13	4.80	1.42	1.35
11	bb	103	BCL	MG-NA	4.80	2.17	2.06
11	AU	102	BCL	C1B-NB	4.80	1.39	1.35
11	bf	103	BCL	C1B-NB	4.80	1.39	1.35
13	bd	101	V7N	C14-C13	4.79	1.42	1.35
11	AV	104	BCL	MG-NA	4.79	2.17	2.06
11	bm	103	BCL	C1B-NB	4.79	1.39	1.35
11	bc	104	BCL	C1B-NB	4.79	1.39	1.35
11	BT	1002	BCL	MG-NA	4.79	2.17	2.06
11	AK	102	BCL	C1B-NB	4.79	1.39	1.35
11	BK	1005	BCL	C1B-NB	4.79	1.39	1.35
11	bn	104	BCL	C1B-NB	4.79	1.39	1.35
11	AP	102	BCL	C1B-NB	4.79	1.39	1.35
11	bi	106	BCL	C1B-NB	4.79	1.39	1.35
11	L	303	BCL	C1B-NB	4.79	1.39	1.35
11	AR	102	BCL	C1B-NB	4.78	1.39	1.35
11	AD	102	BCL	C1B-NB	4.78	1.39	1.35
11	bg	1002	BCL	MG-NA	4.78	2.17	2.06
11	BC	105	BCL	MG-NA	4.78	2.17	2.06
11	AQ	101	BCL	MG-NA	4.78	2.17	2.06
11	BJ	1004	BCL	MG-NA	4.77	2.17	2.06
11	BS	1006	BCL	MG-NA	4.77	2.17	2.06
11	al	1001	BCL	MG-NA	4.77	2.17	2.06
11	be	105	BCL	MG-NA	4.77	2.17	2.06
11	BE	103	BCL	MG-NA	4.77	2.17	2.06
11	AS	101	BCL	C1B-NB	4.76	1.39	1.35
11	AM	101	BCL	MG-NA	4.76	2.17	2.06
13	bp	101	V7N	C17-C18	4.76	1.42	1.35
11	AL	102	BCL	C1B-NB	4.76	1.39	1.35
13	BO	1001	V7N	C14-C13	4.75	1.42	1.35
11	bm	103	BCL	MG-NA	4.75	2.17	2.06
11	BW	1002	BCL	C1B-NB	4.75	1.39	1.35
11	BX	103	BCL	C1B-NB	4.75	1.39	1.35
13	AW	104	V7N	C14-C13	4.75	1.42	1.35
11	bn	104	BCL	MG-NA	4.75	2.17	2.06
11	BA	103	BCL	C1B-NB	4.75	1.39	1.35
13	aj	103	V7N	C17-C18	4.75	1.42	1.35
13	AH	104	V7N	C14-C13	4.75	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BG	1003	BCL	C1B-NB	4.75	1.39	1.35
11	BI	102	BCL	MG-NA	4.74	2.17	2.06
11	BR	102	BCL	C1B-NB	4.74	1.39	1.35
11	bi	106	BCL	MG-NA	4.74	2.17	2.06
11	BX	103	BCL	MG-NA	4.74	2.17	2.06
13	BQ	1001	V7N	C14-C13	4.74	1.42	1.35
11	an	1001	BCL	C1B-NB	4.74	1.39	1.35
11	AH	102	BCL	MG-NA	4.74	2.17	2.06
11	ad	102	BCL	C1B-NB	4.73	1.39	1.35
13	AB	101	V7N	C14-C13	4.73	1.42	1.35
11	AT	101	BCL	C1B-NB	4.73	1.39	1.35
13	bl	101	V7N	C17-C18	4.73	1.42	1.35
11	ap	1001	BCL	C1B-NB	4.72	1.39	1.35
11	BB	105	BCL	C1B-NB	4.72	1.39	1.35
11	bp	104	BCL	MG-NA	4.72	2.17	2.06
11	BL	1005	BCL	C1B-NB	4.72	1.39	1.35
11	L	304	BCL	C1B-NB	4.72	1.39	1.35
11	BJ	1004	BCL	C1B-NB	4.72	1.39	1.35
11	BW	1002	BCL	MG-NA	4.72	2.17	2.06
11	BS	1006	BCL	C1B-NB	4.72	1.39	1.35
11	bj	104	BCL	C1B-NB	4.72	1.39	1.35
11	L	303	BCL	MG-NA	4.72	2.17	2.06
11	BP	1002	BCL	C1B-NB	4.71	1.39	1.35
13	BC	101	V7N	C14-C13	4.71	1.42	1.35
13	bb	101	V7N	C17-C18	4.71	1.42	1.35
11	AD	101	BCL	MG-NA	4.71	2.17	2.06
11	AS	102	BCL	MG-NA	4.70	2.17	2.06
13	AQ	104	V7N	C17-C18	4.70	1.42	1.35
11	BQ	1002	BCL	C1B-NB	4.70	1.39	1.35
11	al	1001	BCL	C1B-NB	4.70	1.39	1.35
11	BC	105	BCL	C1B-NB	4.70	1.39	1.35
13	BH	1001	V7N	C14-C13	4.70	1.42	1.35
13	bm	101	V7N	C17-C18	4.70	1.42	1.35
11	BN	1004	BCL	C1B-NB	4.70	1.39	1.35
11	M	406	BCL	MG-NA	4.70	2.17	2.06
11	AN	103	BCL	C1B-NB	4.69	1.39	1.35
11	BE	103	BCL	C1B-NB	4.69	1.39	1.35
11	BL	1005	BCL	MG-NA	4.69	2.17	2.06
11	AX	101	BCL	C1B-NB	4.68	1.39	1.35
13	BP	1001	V7N	C14-C13	4.68	1.42	1.35
11	BU	1001	BCL	C1B-NB	4.68	1.39	1.35
11	BI	102	BCL	C1B-NB	4.68	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BV	1002	BCL	MG-NA	4.68	2.17	2.06
11	BT	1002	BCL	C1B-NB	4.68	1.39	1.35
11	BF	102	BCL	MG-NA	4.67	2.17	2.06
11	BO	1005	BCL	MG-NA	4.67	2.17	2.06
11	BQ	1002	BCL	MG-NA	4.66	2.17	2.06
13	BE	101	V7N	C14-C13	4.66	1.42	1.35
13	bn	101	V7N	C17-C18	4.66	1.42	1.35
11	BO	1005	BCL	C1B-NB	4.66	1.39	1.35
11	BV	1002	BCL	C1B-NB	4.66	1.39	1.35
13	bj	101	V7N	C17-C18	4.65	1.42	1.35
13	BN	1001	V7N	C14-C13	4.65	1.41	1.35
11	BF	102	BCL	C1B-NB	4.65	1.39	1.35
11	BD	103	BCL	C1B-NB	4.65	1.39	1.35
11	BA	103	BCL	MG-NA	4.65	2.17	2.06
13	BW	1001	V7N	C14-C13	4.64	1.41	1.35
11	M	403	BCL	C1B-NB	4.64	1.39	1.35
11	AK	103	BCL	MG-NA	4.64	2.17	2.06
11	bh	102	BCL	C1B-NB	4.64	1.39	1.35
13	bf	101	V7N	C17-C18	4.63	1.41	1.35
11	BM	1004	BCL	C1B-NB	4.63	1.39	1.35
13	BV	1001	V7N	C14-C13	4.63	1.41	1.35
11	BU	1001	BCL	MG-NA	4.63	2.17	2.06
11	BR	102	BCL	MG-NA	4.62	2.17	2.06
13	AE	105	V7N	C14-C13	4.61	1.41	1.35
11	AB	102	BCL	MG-NA	4.61	2.17	2.06
11	bl	104	BCL	C1B-NB	4.61	1.39	1.35
13	af	103	V7N	C17-C18	4.60	1.41	1.35
13	bh	101	V7N	C17-C18	4.59	1.41	1.35
13	AH	104	V7N	C17-C18	4.58	1.41	1.35
13	bi	102	V7N	C17-C18	4.57	1.41	1.35
13	AT	103	V7N	C17-C18	4.57	1.41	1.35
13	BL	1001	V7N	C14-C13	4.57	1.41	1.35
13	BG	1001	V7N	C14-C13	4.56	1.41	1.35
11	BH	1004	BCL	C1B-NB	4.56	1.39	1.35
13	BS	1001	V7N	C14-C13	4.56	1.41	1.35
13	bd	101	V7N	C17-C18	4.56	1.41	1.35
13	bc	101	V7N	C17-C18	4.55	1.41	1.35
13	AE	101	V7N	C17-C18	4.55	1.41	1.35
13	BJ	1001	V7N	C14-C13	4.54	1.41	1.35
13	BT	1001	V7N	C14-C13	4.54	1.41	1.35
25	ai	102	UYH	O8-C28	4.52	1.46	1.33
13	BQ	1001	V7N	C17-C18	4.52	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	BM	1001	V7N	C14-C13	4.52	1.41	1.35
13	BO	1001	V7N	C17-C18	4.51	1.41	1.35
13	be	102	V7N	C14-C13	4.50	1.41	1.35
13	BB	101	V7N	C14-C13	4.49	1.41	1.35
13	BK	1001	V7N	C14-C13	4.45	1.41	1.35
13	AW	104	V7N	C17-C18	4.44	1.41	1.35
25	ai	102	UYH	O7-C10	4.44	1.46	1.34
13	AB	101	V7N	C17-C18	4.41	1.41	1.35
13	bo	102	V7N	C21-C22	4.40	1.38	1.34
13	AE	105	V7N	C17-C18	4.40	1.41	1.35
13	BH	1001	V7N	C17-C18	4.39	1.41	1.35
13	BC	101	V7N	C17-C18	4.39	1.41	1.35
13	BV	1001	V7N	C17-C18	4.39	1.41	1.35
13	be	102	V7N	C17-C18	4.37	1.41	1.35
13	BP	1001	V7N	C17-C18	4.36	1.41	1.35
13	BW	1001	V7N	C17-C18	4.35	1.41	1.35
13	BE	101	V7N	C17-C18	4.35	1.41	1.35
13	BL	1001	V7N	C17-C18	4.33	1.41	1.35
13	BN	1001	V7N	C17-C18	4.33	1.41	1.35
13	ba	102	V7N	C21-C22	4.32	1.38	1.34
13	BT	1001	V7N	C17-C18	4.31	1.41	1.35
13	bb	101	V7N	C21-C22	4.31	1.38	1.34
13	BS	1001	V7N	C17-C18	4.30	1.41	1.35
13	BG	1001	V7N	C17-C18	4.29	1.41	1.35
13	BM	1001	V7N	C17-C18	4.27	1.41	1.35
13	aj	103	V7N	C21-C22	4.27	1.38	1.34
13	BQ	1001	V7N	C21-C22	4.27	1.38	1.34
13	BB	101	V7N	C17-C18	4.26	1.41	1.35
13	bf	101	V7N	C21-C22	4.25	1.38	1.34
13	bi	102	V7N	C21-C22	4.24	1.38	1.34
13	bp	101	V7N	C21-C22	4.23	1.38	1.34
13	BJ	1001	V7N	C17-C18	4.22	1.41	1.35
13	BK	1001	V7N	C17-C18	4.22	1.41	1.35
13	af	103	V7N	C21-C22	4.21	1.38	1.34
13	bn	101	V7N	C21-C22	4.18	1.38	1.34
13	AQ	104	V7N	C21-C22	4.17	1.38	1.34
13	bl	101	V7N	C21-C22	4.16	1.38	1.34
13	BP	1001	V7N	C21-C22	4.15	1.38	1.34
13	bm	101	V7N	C21-C22	4.14	1.38	1.34
13	BC	101	V7N	C21-C22	4.13	1.38	1.34
13	bd	101	V7N	C21-C22	4.12	1.38	1.34
13	ba	102	V7N	C6-C5	4.11	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	AT	103	V7N	C21-C22	4.11	1.38	1.34
13	bc	101	V7N	C21-C22	4.10	1.38	1.34
13	AE	101	V7N	C21-C22	4.08	1.38	1.34
13	BH	1001	V7N	C21-C22	4.03	1.38	1.34
13	bh	101	V7N	C21-C22	4.02	1.38	1.34
13	bj	101	V7N	C21-C22	4.02	1.38	1.34
13	BV	1001	V7N	C21-C22	4.01	1.38	1.34
13	BE	101	V7N	C21-C22	4.01	1.38	1.34
13	AH	104	V7N	C21-C22	4.01	1.38	1.34
11	AB	105	BCL	MG-NC	3.99	2.15	2.06
13	BO	1001	V7N	C21-C22	3.99	1.38	1.34
13	AB	101	V7N	C21-C22	3.98	1.38	1.34
21	M	404	BPH	CBD-CGD	-3.97	1.47	1.52
13	be	102	V7N	C21-C22	3.96	1.38	1.34
13	af	103	V7N	C6-C5	3.91	1.41	1.35
13	AW	104	V7N	C21-C22	3.90	1.38	1.34
13	BN	1001	V7N	C21-C22	3.88	1.38	1.34
13	BW	1001	V7N	C21-C22	3.88	1.38	1.34
13	BM	1001	V7N	C21-C22	3.87	1.38	1.34
13	bp	101	V7N	C6-C5	3.87	1.40	1.35
13	BL	1001	V7N	C21-C22	3.85	1.38	1.34
13	bb	101	V7N	C6-C5	3.85	1.40	1.35
13	BG	1001	V7N	C21-C22	3.85	1.38	1.34
13	BH	1001	V7N	C6-C5	3.84	1.40	1.35
11	AN	105	BCL	MG-NC	3.82	2.15	2.06
13	bl	101	V7N	C6-C5	3.81	1.40	1.35
13	BT	1001	V7N	C21-C22	3.80	1.38	1.34
13	AH	104	V7N	C6-C5	3.79	1.40	1.35
13	BJ	1001	V7N	C21-C22	3.79	1.38	1.34
13	bi	102	V7N	C6-C5	3.78	1.40	1.35
13	aj	103	V7N	C6-C5	3.78	1.40	1.35
13	bm	101	V7N	C6-C5	3.78	1.40	1.35
13	bo	102	V7N	C6-C5	3.78	1.40	1.35
13	BK	1001	V7N	C21-C22	3.77	1.38	1.34
13	AE	105	V7N	C21-C22	3.77	1.38	1.34
14	H1	1002	OV9	P-O2P	-3.76	1.37	1.50
13	AB	101	V7N	C6-C5	3.75	1.40	1.35
14	bm	104	OV9	P-O2P	-3.75	1.37	1.50
13	BS	1001	V7N	C21-C22	3.75	1.38	1.34
13	bn	101	V7N	C6-C5	3.74	1.40	1.35
21	L	309	BPH	CBD-CGD	-3.73	1.47	1.52
13	BO	1001	V7N	C6-C5	3.73	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	AT	103	V7N	C6-C5	3.72	1.40	1.35
11	AF	101	BCL	MG-NC	3.72	2.15	2.06
14	aj	101	0V9	P-O2P	-3.72	1.37	1.50
14	bb	102	0V9	P-O2P	-3.71	1.37	1.50
14	bb	104	0V9	P-O2P	-3.71	1.37	1.50
13	AQ	104	V7N	C6-C5	3.71	1.40	1.35
14	bl	103	0V9	P-O2P	-3.71	1.37	1.50
14	AQ	105	0V9	P-O2P	-3.70	1.37	1.50
14	L	310	0V9	P-O2P	-3.70	1.37	1.50
14	bp	103	0V9	P-O2P	-3.70	1.37	1.50
13	BV	1001	V7N	C6-C5	3.70	1.40	1.35
14	bk	1003	0V9	P-O2P	-3.69	1.37	1.50
14	bi	105	0V9	P-O2P	-3.69	1.37	1.50
14	AJ	104	0V9	P-O2P	-3.69	1.37	1.50
14	bd	104	0V9	P-O2P	-3.69	1.37	1.50
13	bc	101	V7N	C6-C5	3.69	1.40	1.35
14	bf	104	0V9	P-O2P	-3.68	1.37	1.50
14	bi	103	0V9	P-O2P	-3.68	1.37	1.50
14	bo	104	0V9	P-O2P	-3.68	1.37	1.50
14	bc	103	0V9	P-O2P	-3.68	1.37	1.50
13	bh	101	V7N	C6-C5	3.68	1.40	1.35
14	bj	103	0V9	P-O2P	-3.68	1.37	1.50
13	BL	1001	V7N	C6-C5	3.67	1.40	1.35
14	bn	102	0V9	P-O2P	-3.67	1.37	1.50
14	be	104	0V9	P-O2P	-3.67	1.37	1.50
13	AW	104	V7N	C6-C5	3.65	1.40	1.35
13	BQ	1001	V7N	C6-C5	3.64	1.40	1.35
13	AE	101	V7N	C6-C5	3.63	1.40	1.35
11	AD	102	BCL	MG-NC	3.63	2.14	2.06
13	BJ	1001	V7N	C6-C5	3.61	1.40	1.35
13	bf	101	V7N	C6-C5	3.60	1.40	1.35
11	AR	101	BCL	MG-NC	3.60	2.14	2.06
25	ai	102	UYH	O1-C1	3.60	1.46	1.40
13	BB	101	V7N	C6-C5	3.59	1.40	1.35
13	BG	1001	V7N	C6-C5	3.59	1.40	1.35
11	AL	103	BCL	MG-NC	3.58	2.14	2.06
11	AJ	102	BCL	MG-NC	3.58	2.14	2.06
13	BB	101	V7N	C21-C22	3.58	1.37	1.34
11	AI	101	BCL	MG-NC	3.57	2.14	2.06
13	be	102	V7N	C6-C5	3.56	1.40	1.35
13	BT	1001	V7N	C6-C5	3.54	1.40	1.35
11	AE	102	BCL	MG-NC	3.54	2.14	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AX	101	BCL	MG-NC	3.53	2.14	2.06
13	AE	105	V7N	C6-C5	3.52	1.40	1.35
13	BP	1001	V7N	C6-C5	3.52	1.40	1.35
17	M	410	V75	O2-C2	-3.52	1.40	1.46
11	AS	101	BCL	MG-NC	3.52	2.14	2.06
13	bd	101	V7N	C6-C5	3.52	1.40	1.35
13	BW	1001	V7N	C6-C5	3.51	1.40	1.35
11	AV	101	BCL	MG-NC	3.51	2.14	2.06
11	AP	102	BCL	MG-NC	3.51	2.14	2.06
11	AG	101	BCL	MG-NC	3.50	2.14	2.06
11	AA	1001	BCL	MG-NC	3.50	2.14	2.06
11	ak	101	BCL	MG-NC	3.50	2.14	2.06
11	AL	102	BCL	MG-NC	3.50	2.14	2.06
11	AU	102	BCL	MG-NC	3.50	2.14	2.06
13	BK	1001	V7N	C6-C5	3.50	1.40	1.35
11	be	105	BCL	MG-NC	3.50	2.14	2.06
11	AW	103	BCL	MG-NC	3.49	2.14	2.06
11	AU	101	BCL	MG-NC	3.49	2.14	2.06
13	BN	1001	V7N	C6-C5	3.48	1.40	1.35
11	AO	101	BCL	MG-NC	3.48	2.14	2.06
13	BC	101	V7N	C6-C5	3.47	1.40	1.35
11	bl	104	BCL	MG-NC	3.47	2.14	2.06
13	BE	101	V7N	C6-C5	3.46	1.40	1.35
11	bk	1002	BCL	MG-NC	3.46	2.14	2.06
11	AQ	102	BCL	MG-NC	3.46	2.14	2.06
11	L	304	BCL	MG-NC	3.46	2.14	2.06
11	AJ	101	BCL	MG-NC	3.46	2.14	2.06
11	bd	103	BCL	MG-NC	3.45	2.14	2.06
11	bc	104	BCL	MG-NC	3.45	2.14	2.06
11	ai	101	BCL	MG-NC	3.45	2.14	2.06
11	AB	103	BCL	MG-NC	3.45	2.14	2.06
11	AR	102	BCL	MG-NC	3.44	2.14	2.06
13	bj	101	V7N	C6-C5	3.44	1.40	1.35
11	bf	103	BCL	MG-NC	3.44	2.14	2.06
13	BS	1001	V7N	C6-C5	3.44	1.40	1.35
13	BM	1001	V7N	C6-C5	3.43	1.40	1.35
11	AC	1001	BCL	MG-NC	3.43	2.14	2.06
11	AM	102	BCL	MG-NC	3.43	2.14	2.06
11	AN	103	BCL	MG-NC	3.42	2.14	2.06
11	bm	103	BCL	MG-NC	3.41	2.14	2.06
11	bo	105	BCL	MG-NC	3.41	2.14	2.06
11	ba	103	BCL	MG-NC	3.41	2.14	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AD	101	BCL	MG-NC	3.40	2.14	2.06
11	ao	102	BCL	MG-NC	3.40	2.14	2.06
11	AN	102	BCL	MG-NC	3.40	2.14	2.06
11	AF	102	BCL	MG-NC	3.40	2.14	2.06
11	bh	102	BCL	MG-NC	3.40	2.14	2.06
11	aa	1001	BCL	MG-NC	3.38	2.14	2.06
11	an	1001	BCL	MG-NC	3.38	2.14	2.06
11	am	1001	BCL	MG-NC	3.38	2.14	2.06
11	AH	101	BCL	MG-NC	3.38	2.14	2.06
11	AP	101	BCL	MG-NC	3.38	2.14	2.06
11	bb	103	BCL	MG-NC	3.38	2.14	2.06
17	C	406	V75	O2-C2	-3.38	1.40	1.46
11	ae	101	BCL	MG-NC	3.38	2.14	2.06
11	BD	103	BCL	MG-NC	3.38	2.14	2.06
11	AT	101	BCL	MG-NC	3.37	2.14	2.06
11	ad	102	BCL	MG-NC	3.37	2.14	2.06
11	AE	103	BCL	MG-NC	3.37	2.14	2.06
11	AK	102	BCL	MG-NC	3.37	2.14	2.06
11	bn	104	BCL	MG-NC	3.37	2.14	2.06
11	AW	101	BCL	MG-NC	3.37	2.14	2.06
11	M	406	BCL	MG-NC	3.36	2.14	2.06
11	bg	1002	BCL	MG-NC	3.36	2.14	2.06
11	ag	102	BCL	MG-NC	3.36	2.14	2.06
11	al	1001	BCL	MG-NC	3.36	2.14	2.06
11	BP	1002	BCL	MG-NC	3.36	2.14	2.06
11	AI	103	BCL	MG-NC	3.36	2.14	2.06
11	AG	102	BCL	MG-NC	3.35	2.14	2.06
11	BK	1005	BCL	MG-NC	3.35	2.14	2.06
11	ah	1001	BCL	MG-NC	3.35	2.14	2.06
11	AQ	101	BCL	MG-NC	3.35	2.14	2.06
11	AK	103	BCL	MG-NC	3.35	2.14	2.06
11	ap	1001	BCL	MG-NC	3.35	2.14	2.06
11	AV	104	BCL	MG-NC	3.34	2.14	2.06
11	ac	1002	BCL	MG-NC	3.34	2.14	2.06
11	AA	1002	BCL	MG-NC	3.33	2.14	2.06
11	AV	102	BCL	MG-NC	3.33	2.14	2.06
11	BM	1004	BCL	MG-NC	3.33	2.14	2.06
11	AS	104	BCL	MG-NC	3.32	2.14	2.06
11	af	102	BCL	MG-NC	3.32	2.14	2.06
11	AM	101	BCL	MG-NC	3.32	2.14	2.06
11	BG	1003	BCL	MG-NC	3.32	2.14	2.06
11	BE	103	BCL	MG-NC	3.32	2.14	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AH	102	BCL	MG-NC	3.32	2.14	2.06
11	bp	104	BCL	MG-NC	3.32	2.14	2.06
25	ai	102	UYH	C3-C2	3.32	1.60	1.52
11	BX	103	BCL	MG-NC	3.32	2.14	2.06
11	BB	105	BCL	MG-NC	3.31	2.14	2.06
11	BH	1004	BCL	MG-NC	3.31	2.14	2.06
11	ab	101	BCL	MG-NC	3.31	2.14	2.06
11	bj	104	BCL	MG-NC	3.31	2.14	2.06
11	aj	102	BCL	MG-NC	3.31	2.14	2.06
11	AS	102	BCL	MG-NC	3.30	2.14	2.06
11	bi	106	BCL	MG-NC	3.30	2.14	2.06
11	BT	1002	BCL	MG-NC	3.30	2.14	2.06
11	BN	1004	BCL	MG-NC	3.29	2.14	2.06
11	BC	105	BCL	MG-NC	3.28	2.14	2.06
11	BQ	1002	BCL	MG-NC	3.28	2.14	2.06
25	ai	102	UYH	C4-C5	3.27	1.59	1.53
25	ai	102	UYH	C29-C28	3.27	1.60	1.50
11	BU	1001	BCL	MG-NC	3.26	2.14	2.06
11	BW	1002	BCL	MG-NC	3.26	2.14	2.06
11	BO	1005	BCL	MG-NC	3.25	2.14	2.06
11	BI	102	BCL	MG-NC	3.24	2.14	2.06
11	BL	1005	BCL	MG-NC	3.23	2.13	2.06
11	BV	1002	BCL	MG-NC	3.22	2.13	2.06
11	AB	102	BCL	MG-NC	3.21	2.13	2.06
11	BJ	1004	BCL	MG-NC	3.21	2.13	2.06
11	BS	1006	BCL	MG-NC	3.20	2.13	2.06
11	BF	102	BCL	MG-NC	3.20	2.13	2.06
11	BA	103	BCL	MG-NC	3.18	2.13	2.06
11	BR	102	BCL	MG-NC	3.18	2.13	2.06
11	L	303	BCL	MG-NC	3.14	2.13	2.06
11	BS	1006	BCL	O2A-CGA	-3.13	1.24	1.33
17	M	410	V75	O3-C3	-3.13	1.40	1.44
11	M	403	BCL	MG-NC	3.10	2.13	2.06
25	ai	102	UYH	C11-C10	3.09	1.59	1.50
25	ai	102	UYH	C3-C4	3.07	1.60	1.52
17	C	406	V75	O3-C3	-3.06	1.40	1.44
25	ai	102	UYH	C1-C2	3.06	1.61	1.52
25	ai	102	UYH	C9-C8	3.02	1.60	1.50
12	AA	1003	LMT	O2'-C2'	-2.96	1.36	1.43
25	ai	102	UYH	C7-C8	2.86	1.59	1.50
12	bd	102	LMT	O3'-C3'	-2.70	1.36	1.43
12	AQ	103	LMT	O3'-C3'	-2.70	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BP	1003	LMT	O3'-C3'	-2.69	1.36	1.43
12	AT	104	LMT	O3'-C3'	-2.69	1.36	1.43
12	be	103	LMT	O3'-C3'	-2.68	1.36	1.43
12	BM	1002	LMT	O3'-C3'	-2.68	1.36	1.43
12	AN	104	LMT	O3'-C3'	-2.68	1.36	1.43
12	BH	1002	LMT	O3'-C3'	-2.67	1.36	1.43
12	BU	1004	LMT	O3'-C3'	-2.67	1.36	1.43
12	AE	104	LMT	O3'-C3'	-2.67	1.36	1.43
12	AL	101	LMT	O3'-C3'	-2.67	1.36	1.43
12	BL	1002	LMT	O3'-C3'	-2.67	1.36	1.43
12	AA	1003	LMT	O3'-C3'	-2.66	1.36	1.43
12	AK	101	LMT	O3'-C3'	-2.66	1.36	1.43
12	AG	103	LMT	O3'-C3'	-2.66	1.36	1.43
12	BG	1005	LMT	O3'-C3'	-2.66	1.36	1.43
12	BD	105	LMT	O3'-C3'	-2.66	1.36	1.43
12	bg	1001	LMT	O3'-C3'	-2.66	1.36	1.43
12	AR	103	LMT	O3'-C3'	-2.66	1.36	1.43
12	BD	101	LMT	O3'-C3'	-2.66	1.36	1.43
12	M	408	LMT	O3'-C3'	-2.66	1.36	1.43
12	BL	1003	LMT	O3'-C3'	-2.66	1.36	1.43
12	BL	1006	LMT	O3'-C3'	-2.65	1.36	1.43
12	BR	104	LMT	O3'-C3'	-2.65	1.36	1.43
12	L	301	LMT	O3'-C3'	-2.65	1.36	1.43
12	bk	1001	LMT	O3'-C3'	-2.65	1.36	1.43
12	BI	105	LMT	O3'-C3'	-2.65	1.36	1.43
12	bo	101	LMT	O3'-C3'	-2.65	1.36	1.43
12	bn	103	LMT	O3'-C3'	-2.65	1.36	1.43
12	bb	105	LMT	O3'-C3'	-2.65	1.36	1.43
12	BP	1005	LMT	O3'-C3'	-2.64	1.36	1.43
12	BO	1004	LMT	O3'-C3'	-2.64	1.36	1.43
12	bm	102	LMT	O3'-C3'	-2.64	1.36	1.43
12	BB	102	LMT	O3'-C3'	-2.64	1.36	1.43
12	BA	102	LMT	O3'-C3'	-2.64	1.36	1.43
12	AP	103	LMT	O3'-C3'	-2.64	1.36	1.43
12	L	306	LMT	O3'-C3'	-2.64	1.36	1.43
12	AK	104	LMT	O3'-C3'	-2.63	1.36	1.43
12	AH	103	LMT	O3'-C3'	-2.63	1.36	1.43
12	BK	1002	LMT	O3'-C3'	-2.63	1.36	1.43
12	bj	102	LMT	O3'-C3'	-2.63	1.36	1.43
12	BF	104	LMT	O3'-C3'	-2.63	1.36	1.43
12	BE	102	LMT	O3'-C3'	-2.63	1.36	1.43
12	BS	1002	LMT	O3'-C3'	-2.63	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BA	104	LMT	O3'-C3'	-2.63	1.36	1.43
12	BR	101	LMT	O3'-C3'	-2.62	1.36	1.43
12	BO	1002	LMT	O3'-C3'	-2.62	1.36	1.43
12	bc	102	LMT	O3'-C3'	-2.62	1.36	1.43
12	BI	101	LMT	O3'-C3'	-2.62	1.36	1.43
12	ac	1001	LMT	O3'-C3'	-2.61	1.36	1.43
12	BG	1002	LMT	O3'-C3'	-2.61	1.36	1.43
12	AM	103	LMT	O3'-C3'	-2.61	1.36	1.43
12	BS	1004	LMT	O3'-C3'	-2.61	1.36	1.43
12	BO	1003	LMT	O3'-C3'	-2.61	1.36	1.43
12	BD	104	LMT	O3'-C3'	-2.61	1.36	1.43
12	AI	102	LMT	O3'-C3'	-2.61	1.36	1.43
12	BV	1004	LMT	O3'-C3'	-2.61	1.36	1.43
12	AB	104	LMT	O3'-C3'	-2.61	1.36	1.43
12	L	308	LMT	O3'-C3'	-2.61	1.36	1.43
12	AD	103	LMT	O3'-C3'	-2.60	1.36	1.43
12	AJ	103	LMT	O3'-C3'	-2.60	1.36	1.43
12	BN	1005	LMT	O3'-C3'	-2.60	1.36	1.43
12	AW	102	LMT	O3'-C3'	-2.60	1.36	1.43
12	H2	201	LMT	O3'-C3'	-2.60	1.36	1.43
12	bi	104	LMT	O3'-C3'	-2.60	1.36	1.43
12	BA	105	LMT	O3'-C3'	-2.60	1.36	1.43
12	AL	104	LMT	O3'-C3'	-2.60	1.36	1.43
12	BS	1003	LMT	O3'-C3'	-2.60	1.36	1.43
12	BQ	1003	LMT	O3'-C3'	-2.60	1.36	1.43
12	AS	103	LMT	O3'-C3'	-2.60	1.36	1.43
12	bp	102	LMT	O3'-C3'	-2.60	1.36	1.43
12	BC	103	LMT	O3'-C3'	-2.60	1.36	1.43
12	BG	1004	LMT	O3'-C3'	-2.60	1.36	1.43
12	BC	104	LMT	O3'-C3'	-2.59	1.36	1.43
12	BI	104	LMT	O3'-C3'	-2.59	1.36	1.43
12	BU	1003	LMT	O3'-C3'	-2.59	1.36	1.43
12	L	305	LMT	O3'-C3'	-2.59	1.36	1.43
12	BN	1002	LMT	O3'-C3'	-2.59	1.36	1.43
12	BT	1005	LMT	O3'-C3'	-2.59	1.36	1.43
12	BT	1003	LMT	O3'-C3'	-2.59	1.36	1.43
12	BC	102	LMT	O3'-C3'	-2.59	1.36	1.43
12	BQ	1004	LMT	O3'-C3'	-2.59	1.36	1.43
12	BX	101	LMT	O3'-C3'	-2.58	1.36	1.43
12	AE	106	LMT	O3'-C3'	-2.58	1.36	1.43
12	AN	101	LMT	O3'-C3'	-2.58	1.36	1.43
12	bl	102	LMT	O3'-C3'	-2.58	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BK	1003	LMT	O3'-C3'	-2.57	1.36	1.43
12	BH	1003	LMT	O3'-C3'	-2.57	1.36	1.43
12	bo	103	LMT	O3'-C3'	-2.57	1.36	1.43
12	BF	101	LMT	O3'-C3'	-2.57	1.36	1.43
12	BE	102	LMT	O2'-C2'	-2.57	1.36	1.43
12	bf	102	LMT	O3'-C3'	-2.56	1.36	1.43
12	BT	1004	LMT	O3'-C3'	-2.56	1.36	1.43
12	BN	1003	LMT	O3'-C3'	-2.56	1.36	1.43
12	BI	103	LMT	O3'-C3'	-2.56	1.36	1.43
12	ba	101	LMT	O3'-C3'	-2.55	1.37	1.43
12	BB	103	LMT	O3'-C3'	-2.55	1.37	1.43
12	BS	1005	LMT	O3'-C3'	-2.55	1.37	1.43
12	BX	102	LMT	O3'-C3'	-2.55	1.37	1.43
12	BK	1004	LMT	O3'-C3'	-2.55	1.37	1.43
12	BJ	1002	LMT	O3'-C3'	-2.55	1.37	1.43
13	bn	101	V7N	C11-C12	2.55	1.41	1.34
12	BA	101	LMT	O3'-C3'	-2.55	1.37	1.43
12	BF	103	LMT	O3'-C3'	-2.55	1.37	1.43
12	BP	1004	LMT	O3'-C3'	-2.54	1.37	1.43
12	be	101	LMT	O3'-C3'	-2.54	1.37	1.43
25	ai	102	UYH	C6-C5	2.54	1.60	1.51
13	ba	102	V7N	C11-C12	2.54	1.41	1.34
12	BB	104	LMT	O3'-C3'	-2.54	1.37	1.43
12	BJ	1003	LMT	O3'-C3'	-2.54	1.37	1.43
12	BH	1005	LMT	O3'-C3'	-2.54	1.37	1.43
13	bo	102	V7N	C11-C12	2.54	1.41	1.34
12	AV	103	LMT	O3'-C3'	-2.54	1.37	1.43
12	BM	1005	LMT	O3'-C3'	-2.53	1.37	1.43
12	BD	102	LMT	O3'-C3'	-2.53	1.37	1.43
12	BR	103	LMT	O3'-C3'	-2.52	1.37	1.43
12	BW	1004	LMT	O3'-C3'	-2.52	1.37	1.43
12	BV	1003	LMT	O3'-C3'	-2.51	1.37	1.43
13	aj	103	V7N	C11-C12	2.50	1.41	1.34
12	BW	1003	LMT	O3'-C3'	-2.50	1.37	1.43
12	BG	1004	LMT	O2'-C2'	-2.50	1.37	1.43
12	bi	101	LMT	O3'-C3'	-2.50	1.37	1.43
12	BL	1004	LMT	O3'-C3'	-2.50	1.37	1.43
12	AH	105	LMT	O3'-C3'	-2.50	1.37	1.43
12	L	307	LMT	O3'-C3'	-2.50	1.37	1.43
12	AN	104	LMT	O2'-C2'	-2.50	1.37	1.43
12	BE	104	LMT	O3'-C3'	-2.49	1.37	1.43
13	ba	102	V7N	C7-C8	2.49	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BM	1005	LMT	O2'-C2'	-2.49	1.37	1.43
12	BV	1005	LMT	O3'-C3'	-2.48	1.37	1.43
12	AR	103	LMT	O2'-C2'	-2.48	1.37	1.43
12	BF	104	LMT	O2'-C2'	-2.47	1.37	1.43
12	BU	1002	LMT	O3'-C3'	-2.47	1.37	1.43
13	bf	101	V7N	C11-C12	2.47	1.40	1.34
24	af	101	V7B	O8-C28	2.46	1.40	1.33
12	BP	1005	LMT	O2'-C2'	-2.46	1.37	1.43
13	af	103	V7N	C11-C12	2.46	1.40	1.34
12	BL	1006	LMT	O2'-C2'	-2.45	1.37	1.43
13	bl	101	V7N	C11-C12	2.45	1.40	1.34
12	BM	1003	LMT	O3'-C3'	-2.45	1.37	1.43
12	BD	105	LMT	O2'-C2'	-2.45	1.37	1.43
13	bb	101	V7N	C11-C12	2.44	1.40	1.34
12	BK	1002	LMT	O2'-C2'	-2.44	1.37	1.43
12	BD	101	LMT	O2'-C2'	-2.43	1.37	1.43
13	AQ	104	V7N	C11-C12	2.42	1.40	1.34
12	AW	102	LMT	O2'-C2'	-2.42	1.37	1.43
13	bm	101	V7N	C11-C12	2.42	1.40	1.34
13	be	102	V7N	C11-C12	2.41	1.40	1.34
13	AT	103	V7N	C11-C12	2.41	1.40	1.34
13	bp	101	V7N	C11-C12	2.41	1.40	1.34
12	bj	102	LMT	O2'-C2'	-2.41	1.37	1.43
12	AT	102	LMT	O3'-C3'	-2.40	1.37	1.43
12	bo	101	LMT	O2'-C2'	-2.40	1.37	1.43
13	bi	102	V7N	C11-C12	2.40	1.40	1.34
12	BN	1005	LMT	O2'-C2'	-2.39	1.37	1.43
13	bd	101	V7N	C11-C12	2.39	1.40	1.34
12	bo	103	LMT	O2'-C2'	-2.38	1.37	1.43
12	bo	103	LMT	O2B-C2B	-2.38	1.37	1.43
13	BM	1001	V7N	C12-C13	-2.38	1.40	1.45
12	AI	102	LMT	O2'-C2'	-2.38	1.37	1.43
13	af	103	V7N	C7-C8	2.38	1.40	1.34
13	bh	101	V7N	C11-C12	2.38	1.40	1.34
13	BQ	1001	V7N	C11-C12	2.37	1.40	1.34
13	BH	1001	V7N	C11-C12	2.37	1.40	1.34
13	bc	101	V7N	C11-C12	2.37	1.40	1.34
12	BX	101	LMT	O2'-C2'	-2.37	1.37	1.43
12	AH	105	LMT	O2'-C2'	-2.37	1.37	1.43
11	AW	103	BCL	C4B-NB	2.37	1.37	1.35
13	AH	104	V7N	C11-C12	2.37	1.40	1.34
24	ag	103	V7B	O8-C28	2.36	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BO	1003	LMT	O2'-C2'	-2.36	1.37	1.43
12	BI	105	LMT	O2'-C2'	-2.36	1.37	1.43
12	AJ	103	LMT	O3B-C3B	-2.36	1.37	1.43
12	ac	1001	LMT	O2'-C2'	-2.36	1.37	1.43
12	BB	102	LMT	O2'-C2'	-2.36	1.37	1.43
12	BQ	1003	LMT	O2'-C2'	-2.36	1.37	1.43
12	AH	103	LMT	O2'-C2'	-2.35	1.37	1.43
12	AE	104	LMT	O2'-C2'	-2.35	1.37	1.43
12	BD	104	LMT	O2'-C2'	-2.35	1.37	1.43
12	BE	104	LMT	O2'-C2'	-2.35	1.37	1.43
13	BC	101	V7N	C11-C12	2.35	1.40	1.34
12	bf	102	LMT	O2'-C2'	-2.35	1.37	1.43
12	BT	1005	LMT	O3B-C3B	-2.35	1.37	1.43
24	af	101	V7B	O7-C8	-2.35	1.40	1.46
12	ac	1001	LMT	O3B-C3B	-2.35	1.37	1.43
12	bb	105	LMT	O2B-C2B	-2.35	1.37	1.43
12	BA	104	LMT	O2'-C2'	-2.35	1.37	1.43
13	bj	101	V7N	C11-C12	2.34	1.40	1.34
13	BB	101	V7N	C12-C13	-2.34	1.40	1.45
12	bn	103	LMT	O2'-C2'	-2.34	1.37	1.43
12	bd	102	LMT	O2'-C2'	-2.34	1.37	1.43
12	AT	102	LMT	O2B-C2B	-2.34	1.37	1.43
12	BV	1004	LMT	O2'-C2'	-2.34	1.37	1.43
12	bi	101	LMT	O2'-C2'	-2.34	1.37	1.43
12	AG	103	LMT	O2B-C2B	-2.34	1.37	1.43
12	AS	103	LMT	O3B-C3B	-2.34	1.37	1.43
12	bd	102	LMT	O3B-C3B	-2.33	1.37	1.43
12	ba	101	LMT	O2'-C2'	-2.33	1.37	1.43
13	AB	101	V7N	C11-C12	2.33	1.40	1.34
12	BD	102	LMT	O2'-C2'	-2.33	1.37	1.43
13	BO	1001	V7N	C11-C12	2.33	1.40	1.34
12	BC	102	LMT	O2'-C2'	-2.33	1.37	1.43
12	BL	1002	LMT	O2'-C2'	-2.33	1.37	1.43
12	AK	104	LMT	O2'-C2'	-2.33	1.37	1.43
12	BC	102	LMT	O3B-C3B	-2.33	1.37	1.43
13	bb	101	V7N	C7-C8	2.32	1.40	1.34
12	BW	1003	LMT	O2'-C2'	-2.32	1.37	1.43
12	L	308	LMT	O2'-C2'	-2.32	1.37	1.43
12	AB	104	LMT	O2'-C2'	-2.32	1.37	1.43
12	BS	1002	LMT	O3B-C3B	-2.32	1.37	1.43
12	be	103	LMT	O2'-C2'	-2.32	1.37	1.43
24	ag	103	V7B	O7-C8	-2.32	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	AJ	103	LMT	O2'-C2'	-2.32	1.37	1.43
12	L	301	LMT	O2'-C2'	-2.32	1.37	1.43
12	BK	1003	LMT	O2B-C2B	-2.32	1.37	1.43
12	AN	101	LMT	O2B-C2B	-2.32	1.37	1.43
12	bc	102	LMT	O2'-C2'	-2.32	1.37	1.43
12	AQ	103	LMT	O2'-C2'	-2.32	1.37	1.43
12	BA	104	LMT	O3B-C3B	-2.32	1.37	1.43
12	AN	101	LMT	O3B-C3B	-2.32	1.37	1.43
12	BA	101	LMT	O3B-C3B	-2.32	1.37	1.43
12	bn	103	LMT	O3B-C3B	-2.32	1.37	1.43
12	BP	1003	LMT	O2'-C2'	-2.32	1.37	1.43
12	bb	105	LMT	O2'-C2'	-2.32	1.37	1.43
13	bm	101	V7N	C7-C8	2.32	1.40	1.34
12	bi	104	LMT	O3B-C3B	-2.32	1.37	1.43
12	BR	101	LMT	O2'-C2'	-2.31	1.37	1.43
12	bm	102	LMT	O2'-C2'	-2.31	1.37	1.43
17	C	406	V75	O2-C2A	2.31	1.40	1.35
12	BS	1004	LMT	O3B-C3B	-2.31	1.37	1.43
12	BR	104	LMT	O3B-C3B	-2.31	1.37	1.43
12	BH	1002	LMT	O2'-C2'	-2.31	1.37	1.43
12	BS	1002	LMT	O2'-C2'	-2.31	1.37	1.43
12	BS	1004	LMT	O2'-C2'	-2.31	1.37	1.43
12	BU	1003	LMT	O3B-C3B	-2.31	1.37	1.43
12	bo	103	LMT	O3B-C3B	-2.31	1.37	1.43
13	AE	101	V7N	C11-C12	2.31	1.40	1.34
12	AJ	103	LMT	O2B-C2B	-2.31	1.37	1.43
12	BF	103	LMT	O2B-C2B	-2.31	1.37	1.43
12	AA	1003	LMT	O3B-C3B	-2.31	1.37	1.43
12	M	408	LMT	O3B-C3B	-2.31	1.37	1.43
13	bi	102	V7N	C7-C8	2.31	1.40	1.34
13	BK	1001	V7N	C12-C13	-2.31	1.41	1.45
13	AW	104	V7N	C11-C12	2.30	1.40	1.34
12	BF	101	LMT	O2'-C2'	-2.30	1.37	1.43
12	BW	1004	LMT	O2'-C2'	-2.30	1.37	1.43
12	BN	1005	LMT	O3B-C3B	-2.30	1.37	1.43
12	BV	1005	LMT	O2B-C2B	-2.30	1.37	1.43
13	BH	1001	V7N	C7-C8	2.30	1.40	1.34
12	BV	1003	LMT	O2B-C2B	-2.30	1.37	1.43
12	bc	102	LMT	O3B-C3B	-2.30	1.37	1.43
12	BI	105	LMT	O3B-C3B	-2.30	1.37	1.43
12	BO	1002	LMT	O3B-C3B	-2.30	1.37	1.43
12	AG	103	LMT	O3B-C3B	-2.30	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	AT	104	LMT	O3B-C3B	-2.30	1.37	1.43
12	BS	1005	LMT	O3B-C3B	-2.30	1.37	1.43
12	BH	1002	LMT	O3B-C3B	-2.30	1.37	1.43
12	AE	106	LMT	O2'-C2'	-2.30	1.37	1.43
12	AL	101	LMT	O3B-C3B	-2.30	1.37	1.43
12	be	101	LMT	O2'-C2'	-2.30	1.37	1.43
12	AV	103	LMT	O3B-C3B	-2.30	1.37	1.43
12	BP	1005	LMT	O3B-C3B	-2.30	1.37	1.43
13	BT	1001	V7N	C12-C13	-2.30	1.41	1.45
13	BV	1001	V7N	C11-C12	2.30	1.40	1.34
12	BP	1004	LMT	O3B-C3B	-2.30	1.37	1.43
13	AB	101	V7N	C28-C29	2.30	1.50	1.43
12	BG	1005	LMT	O3B-C3B	-2.30	1.37	1.43
12	BH	1005	LMT	O2'-C2'	-2.30	1.37	1.43
12	BV	1003	LMT	O3B-C3B	-2.30	1.37	1.43
13	AE	105	V7N	C12-C13	-2.30	1.41	1.45
12	L	308	LMT	O3B-C3B	-2.30	1.37	1.43
12	BU	1003	LMT	O2'-C2'	-2.29	1.37	1.43
12	BG	1002	LMT	O3B-C3B	-2.29	1.37	1.43
12	L	305	LMT	O2B-C2B	-2.29	1.37	1.43
13	BL	1001	V7N	C12-C13	-2.29	1.41	1.45
11	AN	105	BCL	C4B-NB	2.29	1.37	1.35
12	AR	103	LMT	O3B-C3B	-2.29	1.37	1.43
12	AV	103	LMT	O2'-C2'	-2.29	1.37	1.43
12	BR	101	LMT	O3B-C3B	-2.29	1.37	1.43
12	BC	103	LMT	O3B-C3B	-2.29	1.37	1.43
12	BR	103	LMT	O2B-C2B	-2.29	1.37	1.43
12	AL	104	LMT	O3B-C3B	-2.29	1.37	1.43
13	BW	1001	V7N	C11-C12	2.29	1.40	1.34
12	BD	104	LMT	O3B-C3B	-2.29	1.37	1.43
13	aj	103	V7N	C7-C8	2.29	1.40	1.34
12	L	306	LMT	O2'-C2'	-2.29	1.37	1.43
24	ag	103	V7B	O7-C10	2.29	1.40	1.34
13	BE	101	V7N	C11-C12	2.29	1.40	1.34
13	bp	101	V7N	C7-C8	2.29	1.40	1.34
12	AW	102	LMT	O3B-C3B	-2.29	1.37	1.43
13	BN	1001	V7N	C11-C12	2.29	1.40	1.34
12	BM	1002	LMT	O2'-C2'	-2.28	1.37	1.43
13	AE	101	V7N	C12-C13	-2.28	1.41	1.45
12	BK	1004	LMT	O3B-C3B	-2.28	1.37	1.43
13	BG	1001	V7N	C12-C13	-2.28	1.41	1.45
12	bb	105	LMT	O3B-C3B	-2.28	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BV	1005	LMT	O2'-C2'	-2.28	1.37	1.43
12	BT	1005	LMT	O2B-C2B	-2.28	1.37	1.43
12	L	305	LMT	O3B-C3B	-2.28	1.37	1.43
12	AP	103	LMT	O2B-C2B	-2.28	1.37	1.43
12	AQ	103	LMT	O2B-C2B	-2.28	1.37	1.43
12	AM	103	LMT	O2B-C2B	-2.28	1.37	1.43
12	BH	1003	LMT	O3B-C3B	-2.28	1.37	1.43
12	BI	101	LMT	O2'-C2'	-2.28	1.37	1.43
12	L	307	LMT	O2B-C2B	-2.28	1.37	1.43
13	BS	1001	V7N	C12-C13	-2.28	1.41	1.45
12	AS	103	LMT	O2'-C2'	-2.28	1.37	1.43
12	be	101	LMT	O3B-C3B	-2.28	1.37	1.43
13	BL	1001	V7N	C11-C12	2.28	1.40	1.34
12	AG	103	LMT	O2'-C2'	-2.28	1.37	1.43
12	AH	103	LMT	O3B-C3B	-2.28	1.37	1.43
12	BL	1002	LMT	O3B-C3B	-2.28	1.37	1.43
12	L	301	LMT	O3B-C3B	-2.28	1.37	1.43
13	bn	101	V7N	C7-C8	2.28	1.40	1.34
12	AD	103	LMT	O3B-C3B	-2.28	1.37	1.43
12	AD	103	LMT	O2'-C2'	-2.28	1.37	1.43
12	BD	105	LMT	O3B-C3B	-2.28	1.37	1.43
12	BF	104	LMT	O3B-C3B	-2.28	1.37	1.43
13	BJ	1001	V7N	C12-C13	-2.28	1.41	1.45
12	BT	1003	LMT	O3B-C3B	-2.28	1.37	1.43
12	AI	102	LMT	O3B-C3B	-2.28	1.37	1.43
12	BL	1006	LMT	O3B-C3B	-2.28	1.37	1.43
12	bg	1001	LMT	O2'-C2'	-2.27	1.37	1.43
13	bl	101	V7N	C7-C8	2.27	1.40	1.34
12	BS	1003	LMT	O3B-C3B	-2.27	1.37	1.43
12	bm	102	LMT	O2B-C2B	-2.27	1.37	1.43
12	AI	102	LMT	O2B-C2B	-2.27	1.37	1.43
12	bc	102	LMT	O2B-C2B	-2.27	1.37	1.43
12	AM	103	LMT	O3B-C3B	-2.27	1.37	1.43
12	L	301	LMT	O2B-C2B	-2.27	1.37	1.43
12	BA	102	LMT	O3B-C3B	-2.27	1.37	1.43
12	BJ	1002	LMT	O2'-C2'	-2.27	1.37	1.43
12	BP	1003	LMT	O3B-C3B	-2.27	1.37	1.43
12	BE	104	LMT	O2B-C2B	-2.27	1.37	1.43
12	BO	1003	LMT	O2B-C2B	-2.27	1.37	1.43
12	be	103	LMT	O2B-C2B	-2.27	1.37	1.43
12	AE	104	LMT	O2B-C2B	-2.27	1.37	1.43
12	BL	1003	LMT	O3B-C3B	-2.27	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	af	101	V7B	O7-C10	2.27	1.40	1.34
12	BL	1004	LMT	O2'-C2'	-2.27	1.37	1.43
12	BM	1003	LMT	O2'-C2'	-2.27	1.37	1.43
12	AB	104	LMT	O2B-C2B	-2.27	1.37	1.43
12	BG	1002	LMT	O2B-C2B	-2.27	1.37	1.43
12	bl	102	LMT	O3B-C3B	-2.27	1.37	1.43
12	BI	101	LMT	O3B-C3B	-2.27	1.37	1.43
12	AN	104	LMT	O3B-C3B	-2.27	1.37	1.43
13	BM	1001	V7N	C8-C9	-2.27	1.41	1.45
12	BN	1005	LMT	O2B-C2B	-2.27	1.37	1.43
13	BP	1001	V7N	C11-C12	2.27	1.40	1.34
12	bl	102	LMT	O2'-C2'	-2.27	1.37	1.43
13	BN	1001	V7N	C12-C13	-2.27	1.41	1.45
13	AH	104	V7N	C7-C8	2.27	1.40	1.34
12	BM	1003	LMT	O3B-C3B	-2.27	1.37	1.43
12	BP	1005	LMT	O2B-C2B	-2.27	1.37	1.43
12	AB	104	LMT	O3B-C3B	-2.27	1.37	1.43
12	AT	102	LMT	O3B-C3B	-2.27	1.37	1.43
12	BF	103	LMT	O3B-C3B	-2.27	1.37	1.43
12	BK	1002	LMT	O3B-C3B	-2.27	1.37	1.43
12	bi	104	LMT	O2B-C2B	-2.27	1.37	1.43
12	BN	1003	LMT	O2B-C2B	-2.27	1.37	1.43
12	AK	104	LMT	O3B-C3B	-2.26	1.37	1.43
12	BQ	1004	LMT	O2'-C2'	-2.26	1.37	1.43
12	AW	102	LMT	O2B-C2B	-2.26	1.37	1.43
13	bo	102	V7N	C7-C8	2.26	1.40	1.34
12	AK	104	LMT	O2B-C2B	-2.26	1.37	1.43
12	BR	104	LMT	O2B-C2B	-2.26	1.37	1.43
12	AL	101	LMT	O2'-C2'	-2.26	1.37	1.43
12	BK	1004	LMT	O2B-C2B	-2.26	1.37	1.43
12	BL	1004	LMT	O3B-C3B	-2.26	1.37	1.43
12	BV	1003	LMT	O2'-C2'	-2.26	1.37	1.43
12	BD	101	LMT	O3B-C3B	-2.26	1.37	1.43
12	bp	102	LMT	O2'-C2'	-2.26	1.37	1.43
12	BJ	1002	LMT	O2B-C2B	-2.26	1.37	1.43
12	BV	1005	LMT	O3B-C3B	-2.26	1.37	1.43
12	BC	104	LMT	O2B-C2B	-2.26	1.37	1.43
13	BE	101	V7N	C12-C13	-2.26	1.41	1.45
11	AL	103	BCL	OBD-CAD	2.26	1.25	1.22
12	BS	1005	LMT	O2'-C2'	-2.26	1.37	1.43
12	AK	101	LMT	O3B-C3B	-2.26	1.37	1.43
13	BS	1001	V7N	C8-C9	-2.26	1.41	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BA	102	LMT	O2'-C2'	-2.26	1.37	1.43
12	AN	104	LMT	O2B-C2B	-2.26	1.37	1.43
12	bk	1001	LMT	O3B-C3B	-2.26	1.37	1.43
12	BX	102	LMT	O3B-C3B	-2.26	1.37	1.43
13	BS	1001	V7N	C11-C12	2.26	1.40	1.34
12	bj	102	LMT	O3B-C3B	-2.25	1.37	1.43
12	AH	105	LMT	O3B-C3B	-2.25	1.37	1.43
12	BM	1003	LMT	O2B-C2B	-2.25	1.37	1.43
12	BO	1003	LMT	O3B-C3B	-2.25	1.37	1.43
12	H2	201	LMT	O3B-C3B	-2.25	1.37	1.43
12	bi	101	LMT	O3B-C3B	-2.25	1.37	1.43
12	BB	102	LMT	O3B-C3B	-2.25	1.37	1.43
12	BQ	1004	LMT	O3B-C3B	-2.25	1.37	1.43
12	bf	102	LMT	O2B-C2B	-2.25	1.37	1.43
12	M	408	LMT	O2B-C2B	-2.25	1.37	1.43
12	BJ	1003	LMT	O2'-C2'	-2.25	1.37	1.43
12	BI	104	LMT	O3B-C3B	-2.25	1.37	1.43
12	BT	1004	LMT	O3B-C3B	-2.25	1.37	1.43
12	BV	1004	LMT	O2B-C2B	-2.25	1.37	1.43
12	BM	1005	LMT	O2B-C2B	-2.25	1.37	1.43
12	BI	103	LMT	O3B-C3B	-2.25	1.37	1.43
12	AP	103	LMT	O3B-C3B	-2.25	1.37	1.43
12	BB	102	LMT	O2B-C2B	-2.25	1.37	1.43
12	bm	102	LMT	O3B-C3B	-2.25	1.37	1.43
12	bp	102	LMT	O3B-C3B	-2.25	1.37	1.43
12	BM	1002	LMT	O3B-C3B	-2.25	1.37	1.43
12	BS	1002	LMT	O2B-C2B	-2.25	1.37	1.43
12	BU	1002	LMT	O2B-C2B	-2.25	1.37	1.43
13	BM	1001	V7N	C11-C12	2.25	1.40	1.34
12	bg	1001	LMT	O2B-C2B	-2.25	1.37	1.43
12	BM	1002	LMT	O2B-C2B	-2.25	1.37	1.43
12	AH	105	LMT	O2B-C2B	-2.25	1.37	1.43
12	AL	104	LMT	O2B-C2B	-2.25	1.37	1.43
12	BN	1003	LMT	O3B-C3B	-2.25	1.37	1.43
13	BT	1001	V7N	C11-C12	2.25	1.40	1.34
12	AE	106	LMT	O2B-C2B	-2.25	1.37	1.43
12	AM	103	LMT	O2'-C2'	-2.25	1.37	1.43
12	BO	1004	LMT	O3B-C3B	-2.25	1.37	1.43
12	bf	102	LMT	O3B-C3B	-2.25	1.37	1.43
12	BE	102	LMT	O3B-C3B	-2.25	1.37	1.43
12	BV	1004	LMT	O3B-C3B	-2.25	1.37	1.43
12	AP	103	LMT	O2'-C2'	-2.25	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	AE	105	V7N	C11-C12	2.25	1.40	1.34
13	BV	1001	V7N	C12-C13	-2.25	1.41	1.45
12	BJ	1003	LMT	O3B-C3B	-2.24	1.37	1.43
12	BR	103	LMT	O3B-C3B	-2.24	1.37	1.43
12	BK	1003	LMT	O2'-C2'	-2.24	1.37	1.43
11	AI	101	BCL	OBD-CAD	2.24	1.25	1.22
12	BH	1005	LMT	O2B-C2B	-2.24	1.37	1.43
12	BK	1003	LMT	O3B-C3B	-2.24	1.37	1.43
12	BW	1003	LMT	O3B-C3B	-2.24	1.37	1.43
12	BW	1004	LMT	O3B-C3B	-2.24	1.37	1.43
12	BD	102	LMT	O2B-C2B	-2.24	1.37	1.43
12	BC	104	LMT	O2'-C2'	-2.24	1.37	1.43
12	BJ	1002	LMT	O3B-C3B	-2.24	1.37	1.43
12	BX	101	LMT	O3B-C3B	-2.24	1.37	1.43
12	BR	104	LMT	O2'-C2'	-2.24	1.37	1.43
12	bl	102	LMT	O2B-C2B	-2.24	1.37	1.43
12	BP	1003	LMT	O2B-C2B	-2.24	1.37	1.43
12	BA	105	LMT	O3B-C3B	-2.24	1.37	1.43
12	BB	104	LMT	O3B-C3B	-2.24	1.37	1.43
12	BW	1003	LMT	O2B-C2B	-2.24	1.37	1.43
12	ba	101	LMT	O2B-C2B	-2.24	1.37	1.43
12	BU	1004	LMT	O3B-C3B	-2.24	1.37	1.43
12	AE	104	LMT	O3B-C3B	-2.24	1.37	1.43
12	AE	106	LMT	O3B-C3B	-2.24	1.37	1.43
12	AQ	103	LMT	O3B-C3B	-2.24	1.37	1.43
12	BF	101	LMT	O2B-C2B	-2.24	1.37	1.43
12	BR	103	LMT	O2'-C2'	-2.23	1.37	1.43
13	BW	1001	V7N	C12-C13	-2.23	1.41	1.45
12	BN	1002	LMT	O3B-C3B	-2.23	1.37	1.43
12	BA	105	LMT	O2'-C2'	-2.23	1.37	1.43
12	BK	1004	LMT	O2'-C2'	-2.23	1.37	1.43
12	BM	1005	LMT	O3B-C3B	-2.23	1.37	1.43
12	be	101	LMT	O2B-C2B	-2.23	1.37	1.43
12	BT	1004	LMT	O2'-C2'	-2.23	1.37	1.43
12	BF	101	LMT	O3B-C3B	-2.23	1.37	1.43
13	BJ	1001	V7N	C11-C12	2.23	1.40	1.34
12	BD	102	LMT	O3B-C3B	-2.23	1.37	1.43
12	BA	104	LMT	O2B-C2B	-2.23	1.37	1.43
12	bg	1001	LMT	O3B-C3B	-2.23	1.37	1.43
13	BW	1001	V7N	C8-C9	-2.23	1.41	1.45
12	bk	1001	LMT	O2B-C2B	-2.23	1.37	1.43
12	BH	1005	LMT	O3B-C3B	-2.23	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BR	101	LMT	O2B-C2B	-2.23	1.37	1.43
12	BG	1005	LMT	O2'-C2'	-2.23	1.37	1.43
12	BI	101	LMT	O2B-C2B	-2.23	1.37	1.43
12	bi	101	LMT	O2B-C2B	-2.23	1.37	1.43
12	bo	101	LMT	O3B-C3B	-2.23	1.37	1.43
13	BK	1001	V7N	C11-C12	2.23	1.40	1.34
12	BB	103	LMT	O3B-C3B	-2.23	1.37	1.43
12	AT	104	LMT	O2'-C2'	-2.23	1.37	1.43
12	BC	104	LMT	O3B-C3B	-2.23	1.37	1.43
12	L	306	LMT	O3B-C3B	-2.23	1.37	1.43
12	AD	103	LMT	O2B-C2B	-2.22	1.37	1.43
13	BN	1001	V7N	C8-C9	-2.22	1.41	1.45
12	ac	1001	LMT	O2B-C2B	-2.22	1.37	1.43
12	BU	1002	LMT	O3B-C3B	-2.22	1.37	1.43
12	BO	1004	LMT	O2B-C2B	-2.22	1.37	1.43
12	BQ	1003	LMT	O3B-C3B	-2.22	1.37	1.43
13	AB	101	V7N	C12-C13	-2.22	1.41	1.45
12	BT	1003	LMT	O2B-C2B	-2.22	1.37	1.43
12	BA	101	LMT	O2'-C2'	-2.22	1.37	1.43
12	BS	1005	LMT	O2B-C2B	-2.22	1.37	1.43
12	bj	102	LMT	O2B-C2B	-2.22	1.37	1.43
12	AT	104	LMT	O2B-C2B	-2.22	1.37	1.43
12	BT	1005	LMT	O2'-C2'	-2.22	1.37	1.43
12	bo	101	LMT	O2B-C2B	-2.22	1.37	1.43
12	BT	1003	LMT	O2'-C2'	-2.22	1.37	1.43
12	ba	101	LMT	O3B-C3B	-2.22	1.37	1.43
12	AA	1003	LMT	O2B-C2B	-2.22	1.37	1.43
12	BN	1002	LMT	O2B-C2B	-2.22	1.37	1.43
25	ai	102	UYH	C12-C11	2.22	1.60	1.52
12	BQ	1003	LMT	O2B-C2B	-2.22	1.37	1.43
11	AB	105	BCL	OBD-CAD	2.22	1.25	1.22
13	AQ	104	V7N	C7-C8	2.22	1.40	1.34
12	AN	101	LMT	O2'-C2'	-2.22	1.37	1.43
12	BI	103	LMT	O2'-C2'	-2.22	1.37	1.43
12	AK	101	LMT	O2B-C2B	-2.22	1.37	1.43
12	AS	103	LMT	O2B-C2B	-2.22	1.37	1.43
12	BC	102	LMT	O2B-C2B	-2.22	1.37	1.43
12	BE	104	LMT	O3B-C3B	-2.22	1.37	1.43
12	BU	1003	LMT	O2B-C2B	-2.21	1.37	1.43
13	BL	1001	V7N	C7-C8	2.21	1.40	1.34
12	BF	103	LMT	O2'-C2'	-2.21	1.37	1.43
12	BH	1003	LMT	O2B-C2B	-2.21	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BF	104	LMT	O2B-C2B	-2.21	1.37	1.43
12	BP	1004	LMT	O2B-C2B	-2.21	1.37	1.43
12	be	103	LMT	O3B-C3B	-2.21	1.37	1.43
12	BI	104	LMT	O2B-C2B	-2.21	1.37	1.43
13	AT	103	V7N	C7-C8	2.21	1.40	1.34
17	M	410	V75	O3-C3A	2.21	1.40	1.35
11	AN	105	BCL	OBD-CAD	2.21	1.25	1.22
11	AF	101	BCL	OBD-CAD	2.21	1.25	1.22
12	BJ	1003	LMT	O2B-C2B	-2.21	1.37	1.43
12	BG	1002	LMT	O2'-C2'	-2.21	1.37	1.43
13	BG	1001	V7N	C11-C12	2.21	1.40	1.34
13	BC	101	V7N	C8-C9	-2.21	1.41	1.45
12	bk	1001	LMT	O2'-C2'	-2.21	1.37	1.43
12	AL	101	LMT	O2B-C2B	-2.21	1.37	1.43
12	BD	105	LMT	O2B-C2B	-2.21	1.37	1.43
12	BS	1004	LMT	O2B-C2B	-2.21	1.37	1.43
12	bi	104	LMT	O2'-C2'	-2.21	1.37	1.43
13	AW	104	V7N	C12-C13	-2.21	1.41	1.45
12	BD	104	LMT	O2B-C2B	-2.21	1.37	1.43
13	BE	101	V7N	C8-C9	-2.20	1.41	1.45
13	be	102	V7N	C8-C9	-2.20	1.41	1.45
17	C	406	V75	O3-C3A	2.20	1.40	1.35
12	BW	1004	LMT	O2B-C2B	-2.20	1.37	1.43
12	AL	104	LMT	O2'-C2'	-2.20	1.37	1.43
13	bd	101	V7N	C8-C9	-2.20	1.41	1.45
13	bf	101	V7N	C7-C8	2.20	1.40	1.34
12	BL	1006	LMT	O2B-C2B	-2.20	1.37	1.43
12	BS	1003	LMT	O2B-C2B	-2.20	1.37	1.43
12	BH	1002	LMT	O2B-C2B	-2.20	1.37	1.43
12	BC	103	LMT	O2B-C2B	-2.20	1.37	1.43
12	BG	1004	LMT	O3B-C3B	-2.20	1.37	1.43
13	BP	1001	V7N	C12-C13	-2.20	1.41	1.45
13	AE	105	V7N	C8-C9	-2.20	1.41	1.45
12	H2	201	LMT	O2B-C2B	-2.20	1.37	1.43
12	L	307	LMT	O3B-C3B	-2.20	1.37	1.43
13	bh	101	V7N	C7-C8	2.20	1.40	1.34
13	bc	101	V7N	C7-C8	2.20	1.40	1.34
13	BC	101	V7N	C12-C13	-2.20	1.41	1.45
12	AH	103	LMT	O2B-C2B	-2.20	1.37	1.43
13	BB	101	V7N	C11-C12	2.20	1.40	1.34
12	bp	102	LMT	O2B-C2B	-2.20	1.37	1.43
12	BB	103	LMT	O2B-C2B	-2.20	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BQ	1004	LMT	O2B-C2B	-2.20	1.37	1.43
12	bn	103	LMT	O2B-C2B	-2.20	1.37	1.43
12	L	305	LMT	O2'-C2'	-2.19	1.37	1.43
13	bj	101	V7N	C8-C9	-2.19	1.41	1.45
12	BK	1002	LMT	O2B-C2B	-2.19	1.37	1.43
12	BT	1004	LMT	O2B-C2B	-2.19	1.37	1.43
12	BO	1002	LMT	O2'-C2'	-2.19	1.37	1.43
13	BQ	1001	V7N	C12-C13	-2.19	1.41	1.45
12	BA	102	LMT	O2B-C2B	-2.19	1.37	1.43
24	ag	103	V7B	O8-C9	-2.19	1.40	1.45
12	BN	1002	LMT	O2'-C2'	-2.19	1.37	1.43
12	BS	1003	LMT	O2'-C2'	-2.19	1.37	1.43
12	BX	101	LMT	O2B-C2B	-2.19	1.37	1.43
13	be	102	V7N	C7-C8	2.19	1.40	1.34
11	AW	103	BCL	OBD-CAD	2.19	1.25	1.22
13	BP	1001	V7N	C8-C9	-2.19	1.41	1.45
12	BL	1002	LMT	O2B-C2B	-2.19	1.37	1.43
12	BX	102	LMT	O2'-C2'	-2.19	1.37	1.43
12	BB	103	LMT	O2'-C2'	-2.19	1.37	1.43
11	aj	102	BCL	C4B-NB	2.18	1.37	1.35
12	AV	103	LMT	O2B-C2B	-2.18	1.37	1.43
13	AE	101	V7N	C7-C8	2.18	1.40	1.34
17	M	410	V75	O5-C1	-2.18	1.40	1.43
12	BI	105	LMT	O2B-C2B	-2.18	1.37	1.43
13	BV	1001	V7N	C7-C8	2.18	1.40	1.34
12	L	307	LMT	O2'-C2'	-2.18	1.37	1.43
12	L	308	LMT	O2B-C2B	-2.18	1.37	1.43
12	BB	104	LMT	O2'-C2'	-2.18	1.37	1.43
11	AA	1002	BCL	OBD-CAD	2.18	1.25	1.22
12	BA	101	LMT	O2B-C2B	-2.18	1.37	1.43
13	bo	102	V7N	C16-C15	2.18	1.41	1.36
11	AH	102	BCL	OBD-CAD	2.17	1.25	1.22
12	M	408	LMT	O2'-C2'	-2.17	1.37	1.43
13	BO	1001	V7N	C12-C13	-2.17	1.41	1.45
12	BA	105	LMT	O2B-C2B	-2.17	1.37	1.43
12	BL	1003	LMT	O2B-C2B	-2.17	1.37	1.43
12	BN	1003	LMT	O2'-C2'	-2.17	1.37	1.43
12	H2	201	LMT	O2'-C2'	-2.17	1.37	1.43
12	BG	1005	LMT	O2B-C2B	-2.17	1.37	1.43
12	BL	1004	LMT	O2B-C2B	-2.17	1.37	1.43
12	bd	102	LMT	O2B-C2B	-2.17	1.37	1.43
11	AQ	101	BCL	OBD-CAD	2.17	1.25	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bc	101	V7N	C12-C13	-2.17	1.41	1.45
12	BD	101	LMT	O2B-C2B	-2.17	1.37	1.43
12	BI	103	LMT	O2B-C2B	-2.17	1.37	1.43
12	BB	104	LMT	O2B-C2B	-2.16	1.37	1.43
12	BG	1004	LMT	O2B-C2B	-2.16	1.37	1.43
12	AR	103	LMT	O2B-C2B	-2.16	1.37	1.43
13	BQ	1001	V7N	C7-C8	2.16	1.40	1.34
13	AW	104	V7N	C7-C8	2.16	1.40	1.34
12	BO	1004	LMT	O2'-C2'	-2.16	1.37	1.43
13	bo	102	V7N	C20-C19	2.16	1.40	1.34
12	BE	102	LMT	O2B-C2B	-2.16	1.37	1.43
25	ai	102	UYH	C30-C29	2.16	1.60	1.52
13	bd	101	V7N	C7-C8	2.16	1.40	1.34
13	BQ	1001	V7N	C8-C9	-2.16	1.41	1.45
13	BJ	1001	V7N	C7-C8	2.15	1.40	1.34
12	BI	104	LMT	O2'-C2'	-2.15	1.37	1.43
12	AK	101	LMT	O2'-C2'	-2.15	1.37	1.43
11	AK	103	BCL	OBD-CAD	2.15	1.25	1.22
17	M	410	V75	O2-C2A	2.15	1.40	1.35
12	L	306	LMT	O2B-C2B	-2.15	1.37	1.43
13	BK	1001	V7N	C7-C8	2.15	1.40	1.34
12	BU	1002	LMT	O2'-C2'	-2.15	1.37	1.43
11	AB	102	BCL	OBD-CAD	2.14	1.25	1.22
13	bf	101	V7N	C8-C9	-2.14	1.41	1.45
11	AA	1002	BCL	C4B-NB	2.14	1.37	1.35
12	BU	1004	LMT	O2B-C2B	-2.14	1.37	1.43
13	bc	101	V7N	C8-C9	-2.14	1.41	1.45
13	AB	101	V7N	C7-C8	2.14	1.40	1.34
13	be	102	V7N	C12-C13	-2.14	1.41	1.45
13	bh	101	V7N	C8-C9	-2.14	1.41	1.45
12	BP	1004	LMT	O2'-C2'	-2.14	1.37	1.43
13	BG	1001	V7N	C7-C8	2.14	1.40	1.34
13	BO	1001	V7N	C7-C8	2.14	1.40	1.34
11	AN	102	BCL	C4B-NB	2.14	1.37	1.35
12	BL	1003	LMT	O2'-C2'	-2.14	1.37	1.43
13	bj	101	V7N	C7-C8	2.13	1.40	1.34
11	ap	1001	BCL	C4B-NB	2.13	1.37	1.35
12	BU	1004	LMT	O2'-C2'	-2.13	1.38	1.43
13	BT	1001	V7N	C7-C8	2.13	1.40	1.34
12	BC	103	LMT	O2'-C2'	-2.13	1.38	1.43
12	BH	1003	LMT	O2'-C2'	-2.13	1.38	1.43
11	AU	101	BCL	OBD-CAD	2.13	1.25	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BX	102	LMT	O2B-C2B	-2.13	1.38	1.43
13	BC	101	V7N	C7-C8	2.13	1.40	1.34
13	BB	101	V7N	C7-C8	2.13	1.40	1.34
11	AB	102	BCL	C4B-NB	2.13	1.37	1.35
13	bl	101	V7N	C12-C13	-2.12	1.41	1.45
12	BP	1005	LMT	O4'-C4B	-2.12	1.38	1.43
13	BH	1001	V7N	C12-C13	-2.12	1.41	1.45
13	ba	102	V7N	C16-C15	2.12	1.41	1.36
13	BW	1001	V7N	C7-C8	2.12	1.40	1.34
13	bn	101	V7N	C8-C9	-2.12	1.41	1.45
11	AR	102	BCL	C4B-NB	2.11	1.37	1.35
13	AB	101	V7N	C8-C9	-2.11	1.41	1.45
12	BN	1005	LMT	O4'-C4B	-2.11	1.38	1.43
12	AT	102	LMT	O2'-C2'	-2.11	1.38	1.43
13	bl	101	V7N	C8-C9	-2.11	1.41	1.45
13	AW	104	V7N	C8-C9	-2.11	1.41	1.45
12	BH	1002	LMT	O4'-C4B	-2.11	1.38	1.43
13	bh	101	V7N	C12-C13	-2.11	1.41	1.45
13	bj	101	V7N	C12-C13	-2.11	1.41	1.45
12	AS	103	LMT	O4'-C4B	-2.11	1.38	1.43
13	BN	1001	V7N	C7-C8	2.11	1.40	1.34
13	BO	1001	V7N	C8-C9	-2.11	1.41	1.45
11	AF	101	BCL	C4B-NB	2.11	1.37	1.35
13	bd	101	V7N	C12-C13	-2.11	1.41	1.45
11	AN	105	BCL	O1A-CGA	-2.11	1.16	1.22
13	aj	103	V7N	C16-C15	2.10	1.41	1.36
13	BE	101	V7N	C7-C8	2.10	1.40	1.34
13	af	103	V7N	C12-C13	-2.10	1.41	1.45
13	AH	104	V7N	C12-C13	-2.10	1.41	1.45
12	BO	1003	LMT	O4'-C4B	-2.10	1.38	1.43
13	BV	1001	V7N	C8-C9	-2.10	1.41	1.45
13	ba	102	V7N	C20-C19	2.10	1.40	1.34
13	AE	105	V7N	C7-C8	2.10	1.40	1.34
13	AQ	104	V7N	C20-C19	2.10	1.40	1.34
12	AT	104	LMT	O4'-C4B	-2.10	1.38	1.43
13	bm	101	V7N	C12-C13	-2.10	1.41	1.45
13	BP	1001	V7N	C7-C8	2.10	1.40	1.34
12	BP	1003	LMT	O4'-C4B	-2.10	1.38	1.43
12	AH	105	LMT	O4'-C4B	-2.09	1.38	1.43
11	AE	102	BCL	OBD-CAD	2.09	1.25	1.22
11	ak	101	BCL	C4B-NB	2.09	1.37	1.35
13	AQ	104	V7N	C16-C15	2.09	1.41	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BO	1002	LMT	O2B-C2B	-2.09	1.38	1.43
11	AV	104	BCL	OBD-CAD	2.09	1.25	1.22
11	AU	102	BCL	C4B-NB	2.09	1.37	1.35
12	BD	104	LMT	O4'-C4B	-2.09	1.38	1.43
13	bi	102	V7N	C12-C13	-2.09	1.41	1.45
11	AS	101	BCL	C4B-NB	2.09	1.37	1.35
13	AT	103	V7N	C8-C9	-2.09	1.41	1.45
13	BK	1001	V7N	C8-C9	-2.09	1.41	1.45
13	bf	101	V7N	C12-C13	-2.09	1.41	1.45
11	AO	101	BCL	C4B-NB	2.09	1.37	1.35
12	bn	103	LMT	O4'-C4B	-2.09	1.38	1.43
13	bo	102	V7N	C8-C9	-2.09	1.41	1.45
12	BV	1004	LMT	O4'-C4B	-2.08	1.38	1.43
12	BT	1005	LMT	O4'-C4B	-2.08	1.38	1.43
12	BM	1002	LMT	O4'-C4B	-2.08	1.38	1.43
12	BD	105	LMT	O4'-C4B	-2.08	1.38	1.43
12	bi	104	LMT	O4'-C4B	-2.08	1.38	1.43
11	AV	101	BCL	C4B-NB	2.08	1.37	1.35
12	BK	1002	LMT	O4'-C4B	-2.08	1.38	1.43
12	L	306	LMT	O4'-C4B	-2.08	1.38	1.43
13	bb	101	V7N	C16-C15	2.08	1.41	1.36
12	AG	103	LMT	O4'-C4B	-2.08	1.38	1.43
13	BM	1001	V7N	C7-C8	2.08	1.39	1.34
12	BL	1003	LMT	O4'-C4B	-2.08	1.38	1.43
13	bp	101	V7N	C16-C15	2.08	1.41	1.36
13	AT	103	V7N	C12-C13	-2.08	1.41	1.45
12	AJ	103	LMT	O4'-C4B	-2.08	1.38	1.43
12	BT	1004	LMT	O4'-C4B	-2.08	1.38	1.43
11	AK	102	BCL	C4B-NB	2.08	1.37	1.35
12	AB	104	LMT	O4'-C4B	-2.07	1.38	1.43
13	bf	101	V7N	C16-C15	2.07	1.41	1.36
13	bn	101	V7N	C12-C13	-2.07	1.41	1.45
12	AD	103	LMT	O4'-C4B	-2.07	1.38	1.43
12	AQ	103	LMT	O4'-C4B	-2.07	1.38	1.43
12	BB	102	LMT	O4'-C4B	-2.07	1.38	1.43
12	be	103	LMT	O4'-C4B	-2.07	1.38	1.43
11	AJ	102	BCL	C4B-NB	2.07	1.37	1.35
12	BH	1003	LMT	O4'-C4B	-2.07	1.38	1.43
13	bl	101	V7N	C16-C15	2.07	1.41	1.36
11	AQ	102	BCL	C4B-NB	2.07	1.37	1.35
12	L	301	LMT	O4'-C4B	-2.07	1.38	1.43
11	AP	101	BCL	OBD-CAD	2.07	1.25	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BF	103	LMT	O4'-C4B	-2.07	1.38	1.43
12	BU	1003	LMT	O4'-C4B	-2.07	1.38	1.43
12	BL	1002	LMT	O4'-C4B	-2.07	1.38	1.43
12	BS	1002	LMT	O4'-C4B	-2.07	1.38	1.43
13	aj	103	V7N	C20-C19	2.07	1.39	1.34
11	ad	102	BCL	C4B-NB	2.07	1.37	1.35
13	BB	101	V7N	C19-C18	-2.07	1.41	1.45
11	AD	101	BCL	OBD-CAD	2.07	1.25	1.22
12	AH	103	LMT	O4'-C4B	-2.06	1.38	1.43
12	AK	101	LMT	O4'-C4B	-2.06	1.38	1.43
12	AN	104	LMT	O4'-C4B	-2.06	1.38	1.43
11	AF	102	BCL	C4B-NB	2.06	1.37	1.35
12	AV	103	LMT	O4'-C4B	-2.06	1.38	1.43
12	BG	1004	LMT	O4'-C4B	-2.06	1.38	1.43
12	BA	101	LMT	O4'-C4B	-2.06	1.38	1.43
12	M	408	LMT	O4'-C4B	-2.06	1.38	1.43
12	bb	105	LMT	O4'-C4B	-2.06	1.38	1.43
11	ai	101	BCL	C4B-NB	2.06	1.37	1.35
13	aj	103	V7N	C8-C9	-2.06	1.41	1.45
12	AL	101	LMT	O4'-C4B	-2.06	1.38	1.43
12	BC	102	LMT	O4'-C4B	-2.06	1.38	1.43
12	AE	104	LMT	O4'-C4B	-2.06	1.38	1.43
12	BA	105	LMT	O4'-C4B	-2.06	1.38	1.43
13	BT	1001	V7N	C19-C18	-2.06	1.41	1.45
12	bg	1001	LMT	O4'-C4B	-2.06	1.38	1.43
11	AL	102	BCL	C4B-NB	2.06	1.37	1.35
12	BD	101	LMT	O4'-C4B	-2.06	1.38	1.43
13	bn	101	V7N	C16-C15	2.05	1.41	1.36
12	AP	103	LMT	O4'-C4B	-2.05	1.38	1.43
13	AQ	104	V7N	C8-C9	-2.05	1.41	1.45
12	BX	102	LMT	O4'-C4B	-2.05	1.38	1.43
12	bo	103	LMT	O4'-C4B	-2.05	1.38	1.43
13	AE	101	V7N	C8-C9	-2.05	1.41	1.45
13	BB	101	V7N	C8-C9	-2.05	1.41	1.45
11	AP	101	BCL	C4B-NB	2.05	1.37	1.35
11	bl	104	BCL	C4B-NB	2.05	1.37	1.35
13	bb	101	V7N	C20-C19	2.05	1.39	1.34
13	bp	101	V7N	C20-C19	2.05	1.39	1.34
12	BF	101	LMT	O4'-C4B	-2.05	1.38	1.43
12	BU	1004	LMT	O4'-C4B	-2.05	1.38	1.43
12	BS	1003	LMT	O4'-C4B	-2.05	1.38	1.43
11	AX	101	BCL	C4B-NB	2.05	1.37	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AE	102	BCL	C4B-NB	2.05	1.37	1.35
11	AS	104	BCL	OBD-CAD	2.05	1.25	1.22
12	bo	101	LMT	O4'-C4B	-2.04	1.38	1.43
12	BI	101	LMT	O4'-C4B	-2.04	1.38	1.43
12	BX	101	LMT	O4'-C4B	-2.04	1.38	1.43
11	ag	102	BCL	C4B-NB	2.04	1.37	1.35
12	BO	1002	LMT	O4'-C4B	-2.04	1.38	1.43
12	BT	1003	LMT	O4'-C4B	-2.04	1.38	1.43
12	bd	102	LMT	O4'-C4B	-2.04	1.38	1.43
11	AM	101	BCL	OBD-CAD	2.04	1.25	1.22
12	BB	104	LMT	O4'-C4B	-2.04	1.38	1.43
12	BD	102	LMT	O4'-C4B	-2.04	1.38	1.43
13	BG	1001	V7N	C19-C18	-2.04	1.41	1.45
12	BL	1006	LMT	O4'-C4B	-2.04	1.38	1.43
13	af	103	V7N	C16-C15	2.04	1.41	1.36
12	BG	1005	LMT	O4'-C4B	-2.04	1.38	1.43
13	bf	101	V7N	C20-C19	2.04	1.39	1.34
13	BS	1001	V7N	C7-C8	2.04	1.39	1.34
11	AT	101	BCL	C4B-NB	2.04	1.37	1.35
12	BQ	1003	LMT	O4'-C4B	-2.04	1.38	1.43
12	BR	104	LMT	O4'-C4B	-2.04	1.38	1.43
12	BF	104	LMT	O4'-C4B	-2.04	1.38	1.43
12	BA	104	LMT	O4'-C4B	-2.04	1.38	1.43
25	ai	102	UYH	O6-C1	2.04	1.47	1.41
11	AN	102	BCL	OBD-CAD	2.04	1.25	1.22
12	BS	1004	LMT	O4'-C4B	-2.03	1.38	1.43
12	bk	1001	LMT	O4'-C4B	-2.03	1.38	1.43
12	BO	1004	LMT	O4'-C4B	-2.03	1.38	1.43
12	BP	1004	LMT	O4'-C4B	-2.03	1.38	1.43
13	AQ	104	V7N	C12-C13	-2.03	1.41	1.45
13	bn	101	V7N	C20-C19	2.03	1.39	1.34
12	bl	102	LMT	O4'-C4B	-2.03	1.38	1.43
11	AH	101	BCL	C4B-NB	2.03	1.37	1.35
12	bj	102	LMT	O4'-C4B	-2.03	1.38	1.43
11	AR	101	BCL	OBD-CAD	2.03	1.25	1.22
12	bm	102	LMT	O4'-C4B	-2.03	1.38	1.43
11	AG	101	BCL	C4B-NB	2.03	1.37	1.35
11	ah	1001	BCL	C4B-NB	2.03	1.37	1.35
13	BP	1001	V7N	C20-C19	2.03	1.39	1.34
13	BJ	1001	V7N	C8-C9	-2.03	1.41	1.45
13	bi	102	V7N	C8-C9	-2.03	1.41	1.45
13	bp	101	V7N	C8-C9	-2.03	1.41	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	bf	102	LMT	O4'-C4B	-2.03	1.38	1.43
12	BI	103	LMT	O4'-C4B	-2.03	1.38	1.43
11	am	1001	BCL	C4B-NB	2.03	1.37	1.35
12	AR	103	LMT	O4'-C4B	-2.03	1.38	1.43
12	BC	103	LMT	O4'-C4B	-2.03	1.38	1.43
13	bm	101	V7N	C16-C15	2.02	1.41	1.36
12	BI	104	LMT	O4'-C4B	-2.02	1.38	1.43
11	AV	102	BCL	OBD-CAD	2.02	1.25	1.22
13	BG	1001	V7N	C8-C9	-2.02	1.41	1.45
13	bi	102	V7N	C16-C15	2.02	1.41	1.36
12	BE	104	LMT	O4'-C4B	-2.02	1.38	1.43
12	BL	1004	LMT	O4'-C4B	-2.02	1.38	1.43
12	L	307	LMT	O4'-C4B	-2.02	1.38	1.43
12	BW	1003	LMT	O4'-C4B	-2.02	1.38	1.43
13	BS	1001	V7N	C19-C18	-2.02	1.41	1.45
11	AG	102	BCL	OBD-CAD	2.02	1.25	1.22
13	BT	1001	V7N	C8-C9	-2.02	1.41	1.45
12	AL	104	LMT	O4'-C4B	-2.02	1.38	1.43
12	AK	104	LMT	O4'-C4B	-2.02	1.38	1.43
12	BG	1002	LMT	O4'-C4B	-2.02	1.38	1.43
12	BW	1004	LMT	O4'-C4B	-2.02	1.38	1.43
12	L	308	LMT	O4'-C4B	-2.02	1.38	1.43
12	BN	1002	LMT	O4'-C4B	-2.02	1.38	1.43
12	AE	106	LMT	O4'-C4B	-2.02	1.38	1.43
12	bc	102	LMT	O4'-C4B	-2.02	1.38	1.43
12	AM	103	LMT	O4'-C4B	-2.02	1.38	1.43
13	bi	102	V7N	C20-C19	2.02	1.39	1.34
11	AB	105	BCL	C4B-NB	2.02	1.37	1.35
11	AN	103	BCL	C4B-NB	2.02	1.37	1.35
12	ac	1001	LMT	O4'-C4B	-2.01	1.38	1.43
12	bp	102	LMT	O4'-C4B	-2.01	1.38	1.43
13	af	103	V7N	C20-C19	2.01	1.39	1.34
12	AW	102	LMT	O4'-C4B	-2.01	1.38	1.43
13	bo	102	V7N	C12-C13	-2.01	1.41	1.45
13	AH	104	V7N	C16-C15	2.01	1.41	1.36
13	bh	101	V7N	C16-C15	2.01	1.41	1.36
12	BK	1003	LMT	O4'-C4B	-2.01	1.38	1.43
12	BM	1005	LMT	O4'-C4B	-2.01	1.38	1.43
12	L	305	LMT	O4'-C4B	-2.01	1.38	1.43
12	BV	1005	LMT	O4'-C4B	-2.01	1.38	1.43
13	aj	103	V7N	C12-C13	-2.01	1.41	1.45
17	C	406	V75	O5-C1	-2.01	1.40	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bl	101	V7N	C20-C19	2.01	1.39	1.34
11	AI	103	BCL	C4B-NB	2.01	1.37	1.35
12	AA	1003	LMT	O4'-C4B	-2.01	1.38	1.43
12	BI	105	LMT	O4'-C4B	-2.01	1.38	1.43
12	AN	101	LMT	O4'-C4B	-2.01	1.38	1.43
13	bc	101	V7N	C16-C15	2.01	1.41	1.36
12	BQ	1004	LMT	O4'-C4B	-2.01	1.38	1.43
13	BJ	1001	V7N	C19-C18	-2.01	1.41	1.45
13	BL	1001	V7N	C19-C18	-2.01	1.41	1.45
13	AT	103	V7N	C16-C15	2.01	1.41	1.36
12	BA	102	LMT	O4'-C4B	-2.01	1.38	1.43
13	BQ	1001	V7N	C20-C19	2.00	1.39	1.34
13	bp	101	V7N	C12-C13	-2.00	1.41	1.45
13	bm	101	V7N	C20-C19	2.00	1.39	1.34
13	AT	103	V7N	C20-C19	2.00	1.39	1.34
13	bo	102	V7N	C4-C3	2.00	1.37	1.32
12	BN	1003	LMT	O4'-C4B	-2.00	1.38	1.43
13	BN	1001	V7N	C19-C18	-2.00	1.41	1.45
12	BE	102	LMT	O4'-C4B	-2.00	1.38	1.43
13	bp	101	V7N	C4-C3	2.00	1.37	1.32

All (1861) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ab	101	BCL	C1-C2-C3	9.85	143.08	126.04
11	BS	1006	BCL	C1-O2A-CGA	8.04	137.53	116.44
11	AQ	101	BCL	C1-O2A-CGA	7.10	135.08	116.44
13	BV	1001	V7N	C28-C27-C26	-6.33	108.62	126.42
11	AL	103	BCL	C1-O2A-CGA	6.08	132.41	116.44
13	BQ	1001	V7N	C29-C28-C27	-6.05	104.35	123.22
13	AH	104	V7N	C28-C27-C26	-5.85	109.97	126.42
11	AG	102	BCL	C1-C2-C3	5.62	135.77	126.04
13	AW	104	V7N	C28-C27-C26	-5.62	110.64	126.42
11	bp	104	BCL	C1-C2-C3	5.45	135.47	126.04
15	C	403	HEC	CMC-C2C-C1C	-5.42	120.14	128.46
18	ae	102	CD4	O2-C14-C13	5.22	122.75	111.50
13	ba	102	V7N	C28-C27-C26	-5.22	111.75	126.42
13	af	103	V7N	C28-C27-C26	-5.14	111.99	126.42
15	C	401	HEC	CMC-C2C-C1C	-5.13	120.58	128.46
11	AV	104	BCL	C1-O2A-CGA	5.13	129.91	116.44
13	aj	103	V7N	C28-C27-C26	-5.13	112.02	126.42
13	bn	101	V7N	C28-C27-C26	-5.12	112.02	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	ad	101	CD4	C15-O2-C14	5.05	130.23	117.79
13	BG	1001	V7N	C28-C27-C26	-5.01	112.34	126.42
13	BO	1001	V7N	C28-C27-C26	-5.01	112.35	126.42
11	AJ	101	BCL	C1-O2A-CGA	4.98	129.51	116.44
13	AT	103	V7N	C28-C27-C26	-4.93	112.56	126.42
13	bb	101	V7N	C28-C27-C26	-4.92	112.60	126.42
15	C	402	HEC	CMC-C2C-C1C	-4.89	120.95	128.46
13	bf	101	V7N	C29-C28-C27	-4.85	108.07	123.22
13	BM	1001	V7N	C28-C27-C26	-4.76	113.04	126.42
13	bo	102	V7N	C28-C27-C26	-4.76	113.06	126.42
11	BW	1002	BCL	C1-C2-C3	4.75	134.25	126.04
13	BH	1001	V7N	C28-C27-C26	-4.74	113.10	126.42
13	bl	101	V7N	C28-C27-C26	-4.64	113.38	126.42
13	bj	101	V7N	C29-C28-C27	-4.60	108.85	123.22
13	BS	1001	V7N	C28-C27-C26	-4.60	113.49	126.42
13	AE	101	V7N	C28-C27-C26	-4.53	113.69	126.42
13	BK	1001	V7N	C29-C28-C27	-4.50	109.18	123.22
11	AQ	101	BCL	CMB-C2B-C1B	-4.46	121.61	128.46
13	bd	101	V7N	C28-C27-C26	-4.45	113.90	126.42
11	M	403	BCL	CMB-C2B-C1B	-4.45	121.62	128.46
15	C	404	HEC	CMC-C2C-C1C	-4.44	121.64	128.46
17	C	406	V75	O3-C3A-C3B	4.43	119.25	111.09
13	bp	101	V7N	C28-C27-C26	-4.42	113.99	126.42
11	AR	101	BCL	CMB-C2B-C1B	-4.42	121.67	128.46
11	AB	102	BCL	CMB-C2B-C1B	-4.41	121.68	128.46
18	M	402	CD4	O2-C14-C13	4.41	121.01	111.50
13	BB	101	V7N	C28-C27-C26	-4.40	114.05	126.42
13	BL	1001	V7N	C29-C28-C27	-4.40	109.49	123.22
11	ae	101	BCL	CMB-C2B-C1B	-4.39	121.72	128.46
11	al	1001	BCL	CMB-C2B-C1B	-4.39	121.72	128.46
13	BJ	1001	V7N	C28-C27-C26	-4.39	114.10	126.42
11	ah	1001	BCL	CMB-C2B-C1B	-4.38	121.74	128.46
18	ag	101	CD4	O2-C14-C13	4.36	120.89	111.50
11	ad	102	BCL	CMB-C2B-C1B	-4.35	121.77	128.46
13	BT	1001	V7N	C28-C27-C26	-4.35	114.20	126.42
13	bc	101	V7N	C28-C27-C26	-4.35	114.20	126.42
11	af	102	BCL	CMB-C2B-C1B	-4.35	121.78	128.46
11	aj	102	BCL	CMB-C2B-C1B	-4.34	121.80	128.46
13	bi	102	V7N	C28-C27-C26	-4.33	114.26	126.42
11	ap	1001	BCL	CMB-C2B-C1B	-4.32	121.83	128.46
17	M	410	V75	O3-C3A-C3B	4.31	119.02	111.09
11	ab	101	BCL	C1-O2A-CGA	4.31	127.75	116.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	C	406	V75	O2-C2A-C2B	4.31	119.02	111.09
11	an	1001	BCL	CMB-C2B-C1B	-4.29	121.86	128.46
17	M	410	V75	O2-C2A-C2B	4.29	118.99	111.09
11	ba	103	BCL	CMB-C2B-C1B	-4.29	121.87	128.46
11	AN	105	BCL	CMB-C2B-C1B	-4.28	121.88	128.46
11	ag	102	BCL	CMB-C2B-C1B	-4.28	121.89	128.46
11	AW	103	BCL	CMB-C2B-C1B	-4.28	121.89	128.46
11	AB	105	BCL	CMB-C2B-C1B	-4.27	121.89	128.46
12	BB	104	LMT	C1-O1'-C1'	4.27	120.92	113.84
11	am	1001	BCL	CMB-C2B-C1B	-4.27	121.91	128.46
11	AN	102	BCL	CMB-C2B-C1B	-4.26	121.91	128.46
11	BN	1004	BCL	CMB-C2B-C1B	-4.26	121.91	128.46
15	C	403	HEC	CBD-CAD-C3D	-4.26	105.35	112.62
13	BP	1001	V7N	C28-C27-C26	-4.26	114.46	126.42
13	BW	1001	V7N	C28-C27-C26	-4.25	114.49	126.42
11	AK	103	BCL	CMB-C2B-C1B	-4.24	121.94	128.46
11	AM	101	BCL	CMB-C2B-C1B	-4.24	121.95	128.46
11	ak	101	BCL	CMB-C2B-C1B	-4.24	121.95	128.46
13	BE	101	V7N	C29-C28-C27	-4.23	110.00	123.22
11	AS	102	BCL	CMB-C2B-C1B	-4.22	121.98	128.46
13	AE	105	V7N	C29-C28-C27	-4.22	110.06	123.22
11	bh	102	BCL	CMB-C2B-C1B	-4.21	121.99	128.46
11	AG	102	BCL	CMB-C2B-C1B	-4.21	121.99	128.46
11	ai	101	BCL	CMB-C2B-C1B	-4.21	121.99	128.46
11	bi	106	BCL	CMB-C2B-C1B	-4.21	122.00	128.46
11	ac	1002	BCL	CMB-C2B-C1B	-4.20	122.01	128.46
11	bg	1002	BCL	CMB-C2B-C1B	-4.20	122.01	128.46
11	BV	1002	BCL	CMB-C2B-C1B	-4.20	122.01	128.46
11	bn	104	BCL	CMB-C2B-C1B	-4.20	122.01	128.46
11	BC	105	BCL	CMB-C2B-C1B	-4.19	122.02	128.46
11	BX	103	BCL	CMB-C2B-C1B	-4.19	122.03	128.46
11	ao	102	BCL	CMB-C2B-C1B	-4.19	122.03	128.46
11	AF	101	BCL	CMB-C2B-C1B	-4.19	122.03	128.46
11	AJ	101	BCL	CMB-C2B-C1B	-4.19	122.03	128.46
11	AP	101	BCL	CMB-C2B-C1B	-4.18	122.03	128.46
11	bp	104	BCL	CMB-C2B-C1B	-4.18	122.03	128.46
13	BW	1001	V7N	C29-C28-C27	-4.18	110.17	123.22
11	BB	105	BCL	CMB-C2B-C1B	-4.18	122.04	128.46
13	BN	1001	V7N	C29-C28-C27	-4.18	110.17	123.22
13	bh	101	V7N	C28-C27-C26	-4.17	114.69	126.42
11	L	304	BCL	CMB-C2B-C1B	-4.17	122.05	128.46
11	bo	105	BCL	CMB-C2B-C1B	-4.17	122.06	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	bj	104	BCL	CMB-C2B-C1B	-4.16	122.06	128.46
11	BI	102	BCL	CMB-C2B-C1B	-4.16	122.07	128.46
11	AD	101	BCL	CMB-C2B-C1B	-4.16	122.08	128.46
13	be	102	V7N	C29-C28-C27	-4.15	110.26	123.22
11	BW	1002	BCL	CMB-C2B-C1B	-4.15	122.09	128.46
11	AB	103	BCL	CMB-C2B-C1B	-4.15	122.09	128.46
11	BU	1001	BCL	CMB-C2B-C1B	-4.14	122.10	128.46
11	AU	101	BCL	CMB-C2B-C1B	-4.14	122.10	128.46
11	bm	103	BCL	CMB-C2B-C1B	-4.14	122.11	128.46
11	BM	1004	BCL	CMB-C2B-C1B	-4.13	122.11	128.46
13	AQ	104	V7N	C29-C28-C27	-4.13	110.34	123.22
11	BR	102	BCL	CMB-C2B-C1B	-4.13	122.12	128.46
11	AE	102	BCL	CMB-C2B-C1B	-4.12	122.13	128.46
11	AH	102	BCL	CMB-C2B-C1B	-4.12	122.13	128.46
11	AS	104	BCL	CMB-C2B-C1B	-4.12	122.13	128.46
11	BT	1002	BCL	CMB-C2B-C1B	-4.12	122.13	128.46
11	AI	101	BCL	CMB-C2B-C1B	-4.12	122.13	128.46
11	AV	104	BCL	CMB-C2B-C1B	-4.11	122.14	128.46
11	bc	104	BCL	CMB-C2B-C1B	-4.11	122.15	128.46
11	BL	1005	BCL	CMB-C2B-C1B	-4.11	122.15	128.46
11	bf	103	BCL	CMB-C2B-C1B	-4.10	122.16	128.46
15	C	403	HEC	CMB-C2B-C1B	-4.10	122.16	128.46
11	AV	102	BCL	CMB-C2B-C1B	-4.09	122.17	128.46
11	BA	103	BCL	CMB-C2B-C1B	-4.09	122.18	128.46
11	BE	103	BCL	CMB-C2B-C1B	-4.08	122.19	128.46
11	AL	103	BCL	CMB-C2B-C1B	-4.08	122.20	128.46
13	BE	101	V7N	C28-C27-C26	-4.08	114.97	126.42
11	BW	1002	BCL	C1-O2A-CGA	4.07	127.13	116.44
11	bb	103	BCL	CMB-C2B-C1B	-4.07	122.20	128.46
11	BJ	1004	BCL	CMB-C2B-C1B	-4.07	122.21	128.46
13	bm	101	V7N	C29-C28-C27	-4.07	110.53	123.22
13	BS	1001	V7N	C29-C28-C27	-4.06	110.55	123.22
11	BF	102	BCL	CMB-C2B-C1B	-4.06	122.22	128.46
11	bd	103	BCL	CMB-C2B-C1B	-4.06	122.23	128.46
11	AA	1002	BCL	CMB-C2B-C1B	-4.05	122.23	128.46
11	BH	1004	BCL	CMB-C2B-C1B	-4.05	122.24	128.46
11	bl	104	BCL	CMB-C2B-C1B	-4.05	122.24	128.46
11	bk	1002	BCL	CMB-C2B-C1B	-4.04	122.25	128.46
12	BE	104	LMT	O1'-C1'-C2'	4.04	114.60	108.30
11	BO	1005	BCL	CMB-C2B-C1B	-4.03	122.26	128.46
13	BC	101	V7N	C28-C27-C26	-4.03	115.09	126.42
13	BJ	1001	V7N	C29-C28-C27	-4.02	110.67	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BG	1003	BCL	CMB-C2B-C1B	-4.01	122.29	128.46
11	BQ	1002	BCL	CMB-C2B-C1B	-4.01	122.29	128.46
11	BK	1005	BCL	CMB-C2B-C1B	-4.00	122.32	128.46
11	AI	101	BCL	C1-C2-C3	-3.99	119.14	126.04
11	AD	102	BCL	CMB-C2B-C1B	-3.99	122.33	128.46
11	BP	1002	BCL	CMB-C2B-C1B	-3.99	122.33	128.46
13	BC	101	V7N	C29-C28-C27	-3.98	110.81	123.22
13	BT	1001	V7N	C15-C14-C13	-3.97	121.64	127.31
11	BS	1006	BCL	CMB-C2B-C1B	-3.97	122.36	128.46
15	C	401	HEC	CMB-C2B-C1B	-3.95	122.39	128.46
13	BN	1001	V7N	C28-C27-C26	-3.95	115.31	126.42
11	be	105	BCL	CMB-C2B-C1B	-3.94	122.40	128.46
13	AE	105	V7N	C28-C27-C26	-3.94	115.36	126.42
12	BN	1003	LMT	C1-O1'-C1'	3.93	120.35	113.84
11	AK	102	BCL	CMB-C2B-C1B	-3.92	122.43	128.46
11	bb	103	BCL	C1-C2-C3	3.92	132.83	126.04
13	BP	1001	V7N	C29-C28-C27	-3.92	110.98	123.22
11	AM	101	BCL	C1-O2A-CGA	3.91	126.71	116.44
11	AS	104	BCL	C1-O2A-CGA	3.91	126.70	116.44
18	H1	1001	CD4	C15-O2-C14	3.90	127.40	117.79
11	BD	103	BCL	CMB-C2B-C1B	-3.90	122.47	128.46
11	AP	101	BCL	C1-C2-C3	3.90	132.79	126.04
11	AI	103	BCL	CMB-C2B-C1B	-3.90	122.48	128.46
11	AJ	102	BCL	CMB-C2B-C1B	-3.90	122.48	128.46
18	M	409	CD4	O2-C14-C13	3.89	119.89	111.50
11	AV	102	BCL	C4A-NA-C1A	3.89	108.45	106.71
24	af	101	V7B	O7-C10-C11	3.89	119.88	111.50
13	bm	101	V7N	C28-C27-C26	-3.88	115.51	126.42
11	AP	102	BCL	CMB-C2B-C1B	-3.88	122.50	128.46
11	AP	101	BCL	C4A-NA-C1A	3.87	108.45	106.71
13	bc	101	V7N	C29-C28-C27	-3.87	111.14	123.22
13	BL	1001	V7N	C28-C27-C26	-3.87	115.55	126.42
11	AC	1001	BCL	CMB-C2B-C1B	-3.86	122.53	128.46
11	AS	101	BCL	CMB-C2B-C1B	-3.86	122.54	128.46
11	AA	1001	BCL	CMB-C2B-C1B	-3.85	122.54	128.46
13	bh	101	V7N	C29-C28-C27	-3.85	111.20	123.22
11	AV	101	BCL	CMB-C2B-C1B	-3.84	122.56	128.46
11	AQ	102	BCL	CMB-C2B-C1B	-3.84	122.56	128.46
11	ak	101	BCL	C4A-NA-C1A	3.82	108.42	106.71
11	AR	102	BCL	CMB-C2B-C1B	-3.82	122.59	128.46
11	AE	103	BCL	CMB-C2B-C1B	-3.82	122.59	128.46
11	AX	101	BCL	CMB-C2B-C1B	-3.82	122.60	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ab	101	BCL	CMB-C2B-C1B	-3.81	122.60	128.46
11	AM	101	BCL	C1-C2-C3	-3.80	119.47	126.04
11	aa	1001	BCL	CMB-C2B-C1B	-3.80	122.62	128.46
11	AW	101	BCL	CMB-C2B-C1B	-3.80	122.63	128.46
11	M	403	BCL	C4A-NA-C1A	3.79	108.41	106.71
13	bi	102	V7N	C29-C28-C27	-3.79	111.39	123.22
11	AT	101	BCL	CMB-C2B-C1B	-3.79	122.64	128.46
11	AO	101	BCL	CMB-C2B-C1B	-3.79	122.65	128.46
11	AF	102	BCL	CMB-C2B-C1B	-3.78	122.65	128.46
11	AH	101	BCL	CMB-C2B-C1B	-3.78	122.66	128.46
11	AO	101	BCL	C4A-NA-C1A	3.77	108.40	106.71
11	AG	101	BCL	CMB-C2B-C1B	-3.77	122.67	128.46
11	AQ	101	BCL	CAA-CBA-CGA	3.76	124.25	113.25
15	C	402	HEC	CMB-C2B-C1B	-3.76	122.69	128.46
11	BS	1006	BCL	C4A-NA-C1A	3.75	108.39	106.71
11	AN	103	BCL	CMB-C2B-C1B	-3.75	122.70	128.46
11	AM	102	BCL	CMB-C2B-C1B	-3.74	122.71	128.46
13	BM	1001	V7N	C29-C28-C27	-3.74	111.54	123.22
11	AW	103	BCL	C1-C2-C3	-3.73	119.59	126.04
11	AU	102	BCL	CMB-C2B-C1B	-3.73	122.73	128.46
12	AB	104	LMT	C1-O1'-C1'	3.72	120.02	113.84
13	AQ	104	V7N	C7-C6-C5	-3.72	122.00	127.31
11	BC	105	BCL	C4A-NA-C1A	3.72	108.38	106.71
12	AT	104	LMT	C3'-C4'-C5'	-3.71	102.43	110.93
11	AJ	101	BCL	C1-C2-C3	-3.70	119.64	126.04
11	AL	102	BCL	CMB-C2B-C1B	-3.70	122.78	128.46
15	C	404	HEC	CMB-C2B-C1B	-3.70	122.78	128.46
11	bk	1002	BCL	C4A-NA-C1A	3.70	108.37	106.71
11	AA	1002	BCL	C4A-NA-C1A	3.68	108.36	106.71
11	AW	101	BCL	C4A-NA-C1A	3.68	108.36	106.71
11	am	1001	BCL	C4A-NA-C1A	3.67	108.36	106.71
11	AU	102	BCL	C4A-NA-C1A	3.66	108.35	106.71
11	BT	1002	BCL	C4A-NA-C1A	3.66	108.35	106.71
24	af	101	V7B	C1-O6-C5	3.66	120.88	113.69
13	AQ	104	V7N	C28-C27-C26	-3.65	116.15	126.42
11	AI	101	BCL	C4A-NA-C1A	3.65	108.35	106.71
11	AL	103	BCL	C1-C2-C3	-3.65	119.73	126.04
12	BC	104	LMT	C1-O1'-C1'	3.65	119.89	113.84
11	BH	1004	BCL	C4A-NA-C1A	3.64	108.34	106.71
11	an	1001	BCL	C4A-NA-C1A	3.63	108.34	106.71
11	AD	102	BCL	CAD-C3D-C4D	-3.62	106.45	108.47
13	BV	1001	V7N	C15-C14-C13	-3.61	122.16	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ae	101	BCL	C4A-NA-C1A	3.61	108.33	106.71
20	ao	101	MQ8	C11-C12-C13	-3.60	120.80	126.79
11	ad	102	BCL	C4A-NA-C1A	3.60	108.32	106.71
11	af	102	BCL	C4A-NA-C1A	3.60	108.32	106.71
11	AN	102	BCL	C4A-NA-C1A	3.59	108.32	106.71
13	be	102	V7N	C28-C27-C26	-3.59	116.33	126.42
11	bc	104	BCL	C4A-NA-C1A	3.59	108.32	106.71
11	AQ	101	BCL	C1-C2-C3	-3.58	119.84	126.04
12	BA	105	LMT	C1-O1'-C1'	3.58	119.77	113.84
11	ac	1002	BCL	C4A-NA-C1A	3.58	108.31	106.71
11	AC	1001	BCL	C4A-NA-C1A	3.57	108.31	106.71
13	bf	101	V7N	C28-C27-C26	-3.57	116.39	126.42
11	BJ	1004	BCL	C4A-NA-C1A	3.57	108.31	106.71
11	L	303	BCL	CMB-C2B-C1B	-3.56	123.00	128.46
11	M	406	BCL	CMB-C2B-C1B	-3.55	123.02	128.46
13	BO	1001	V7N	C7-C6-C5	-3.54	122.26	127.31
13	bd	101	V7N	C29-C28-C27	-3.54	112.17	123.22
15	C	403	HEC	CMB-C2B-C3B	3.53	129.97	125.82
11	AD	102	BCL	C4A-NA-C1A	3.53	108.29	106.71
24	ag	103	V7B	C1-O6-C5	3.52	120.60	113.69
11	BP	1002	BCL	C4A-NA-C1A	3.51	108.28	106.71
13	BM	1001	V7N	C15-C14-C13	-3.51	122.31	127.31
11	AA	1001	BCL	CAD-C3D-C4D	-3.50	106.52	108.47
11	aa	1001	BCL	C4A-NA-C1A	3.50	108.28	106.71
13	BK	1001	V7N	C28-C27-C26	-3.50	116.59	126.42
12	AK	104	LMT	C1-O1'-C1'	3.50	119.64	113.84
11	ap	1001	BCL	C4A-NA-C1A	3.49	108.28	106.71
15	C	401	HEC	CMB-C2B-C3B	3.49	129.92	125.82
11	AV	101	BCL	C4A-NA-C1A	3.49	108.27	106.71
11	bj	104	BCL	C4A-NA-C1A	3.48	108.27	106.71
11	BK	1005	BCL	C4A-NA-C1A	3.47	108.27	106.71
11	ao	102	BCL	C4A-NA-C1A	3.47	108.26	106.71
11	AQ	102	BCL	C4A-NA-C1A	3.46	108.26	106.71
11	BD	103	BCL	C4A-NA-C1A	3.45	108.25	106.71
12	BU	1004	LMT	C1-O1'-C1'	3.44	119.55	113.84
11	M	406	BCL	CAD-C3D-C4D	-3.44	106.55	108.47
12	AE	104	LMT	C1-O1'-C1'	3.44	119.54	113.84
11	ag	102	BCL	C4A-NA-C1A	3.44	108.25	106.71
11	AM	102	BCL	C4A-NA-C1A	3.44	108.25	106.71
11	AT	101	BCL	C4A-NA-C1A	3.44	108.25	106.71
11	AD	101	BCL	C1-C2-C3	-3.44	120.10	126.04
11	AS	104	BCL	C1-C2-C3	-3.43	120.11	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AF	102	BCL	C4A-NA-C1A	3.43	108.25	106.71
11	M	403	BCL	CAD-C3D-C4D	-3.43	106.56	108.47
11	AK	102	BCL	C4A-NA-C1A	3.43	108.25	106.71
11	AH	102	BCL	C1-C2-C3	-3.42	120.12	126.04
11	AR	102	BCL	C4A-NA-C1A	3.42	108.24	106.71
11	bj	104	BCL	OBD-CAD-CBD	-3.42	121.01	125.89
15	C	402	HEC	CMB-C2B-C3B	3.42	129.84	125.82
12	BI	103	LMT	C1-O1'-C1'	3.42	119.51	113.84
11	al	1001	BCL	CAD-C3D-C4D	-3.42	106.56	108.47
11	am	1001	BCL	OBD-CAD-CBD	-3.41	121.02	125.89
11	ab	101	BCL	OBD-CAD-CBD	-3.41	121.03	125.89
11	AP	102	BCL	CAD-C3D-C4D	-3.41	106.57	108.47
11	AX	101	BCL	CHA-C1A-NA	-3.40	118.60	126.40
11	ak	101	BCL	OBD-CAD-CBD	-3.40	121.03	125.89
11	AX	101	BCL	OBD-CAD-CBD	-3.40	121.04	125.89
11	BN	1004	BCL	C4A-NA-C1A	3.40	108.23	106.71
11	BV	1002	BCL	OBD-CAD-CBD	-3.39	121.05	125.89
12	bj	102	LMT	C1-O1'-C1'	3.39	119.46	113.84
11	BQ	1002	BCL	C4A-NA-C1A	3.39	108.23	106.71
11	AK	103	BCL	C1-O2A-CGA	3.39	125.33	116.44
12	BL	1006	LMT	C1-O1'-C1'	3.38	119.45	113.84
11	AH	101	BCL	OBD-CAD-CBD	-3.38	121.06	125.89
11	AI	103	BCL	OBD-CAD-CBD	-3.38	121.06	125.89
12	BE	102	LMT	C3'-C4'-C5'	-3.38	103.18	110.93
11	AM	101	BCL	OBD-CAD-CBD	-3.38	121.07	125.89
11	al	1001	BCL	OBD-CAD-CBD	-3.38	121.07	125.89
13	BG	1001	V7N	C15-C14-C13	-3.37	122.50	127.31
11	ah	1001	BCL	OBD-CAD-CBD	-3.37	121.08	125.89
11	AA	1001	BCL	OBD-CAD-CBD	-3.37	121.08	125.89
11	bl	104	BCL	OBD-CAD-CBD	-3.37	121.08	125.89
11	ae	101	BCL	OBD-CAD-CBD	-3.37	121.08	125.89
11	BX	103	BCL	OBD-CAD-CBD	-3.37	121.08	125.89
11	AS	101	BCL	OBD-CAD-CBD	-3.36	121.09	125.89
11	BC	105	BCL	OBD-CAD-CBD	-3.36	121.09	125.89
11	AX	101	BCL	C4A-NA-C1A	3.36	108.22	106.71
11	bm	103	BCL	OBD-CAD-CBD	-3.36	121.09	125.89
11	BO	1005	BCL	OBD-CAD-CBD	-3.36	121.09	125.89
11	AJ	102	BCL	CAD-C3D-C4D	-3.36	106.60	108.47
11	AV	104	BCL	OBD-CAD-CBD	-3.36	121.09	125.89
11	ap	1001	BCL	OBD-CAD-CBD	-3.36	121.09	125.89
11	BS	1006	BCL	OBD-CAD-CBD	-3.36	121.10	125.89
11	bp	104	BCL	OBD-CAD-CBD	-3.36	121.10	125.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BP	1003	LMT	C1-O1'-C1'	3.36	119.41	113.84
11	AV	101	BCL	OBD-CAD-CBD	-3.36	121.10	125.89
11	AE	103	BCL	OBD-CAD-CBD	-3.35	121.10	125.89
11	BK	1005	BCL	OBD-CAD-CBD	-3.35	121.10	125.89
13	AQ	104	V7N	C35-C13-C14	-3.35	118.23	122.92
13	BV	1001	V7N	C35-C13-C14	-3.35	118.23	122.92
11	AT	101	BCL	OBD-CAD-CBD	-3.35	121.11	125.89
11	AL	102	BCL	C4A-NA-C1A	3.35	108.21	106.71
11	BL	1005	BCL	OBD-CAD-CBD	-3.35	121.11	125.89
11	af	102	BCL	OBD-CAD-CBD	-3.35	121.11	125.89
11	AN	103	BCL	C4A-NA-C1A	3.35	108.21	106.71
11	AB	102	BCL	OBD-CAD-CBD	-3.35	121.11	125.89
11	aj	102	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	ag	102	BCL	CAD-C3D-C4D	-3.34	106.61	108.47
11	AB	103	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	aa	1001	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	AG	101	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	bd	103	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	bi	106	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	AJ	102	BCL	C4A-NA-C1A	3.34	108.21	106.71
11	AC	1001	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	bo	105	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	BN	1004	BCL	OBD-CAD-CBD	-3.34	121.12	125.89
11	ak	101	BCL	CAD-C3D-C4D	-3.34	106.61	108.47
11	AM	102	BCL	OBD-CAD-CBD	-3.34	121.13	125.89
11	BG	1003	BCL	C4A-NA-C1A	3.34	108.21	106.71
11	AK	102	BCL	OBD-CAD-CBD	-3.34	121.13	125.89
11	AN	102	BCL	OBD-CAD-CBD	-3.33	121.13	125.89
11	AE	103	BCL	C4A-NA-C1A	3.33	108.20	106.71
11	an	1001	BCL	OBD-CAD-CBD	-3.33	121.13	125.89
11	AN	103	BCL	OBD-CAD-CBD	-3.33	121.13	125.89
11	M	406	BCL	OBD-CAD-CBD	-3.33	121.14	125.89
12	BU	1002	LMT	C1-O1'-C1'	3.33	119.36	113.84
11	BU	1001	BCL	OBD-CAD-CBD	-3.33	121.14	125.89
11	AP	101	BCL	OBD-CAD-CBD	-3.33	121.14	125.89
11	AV	104	BCL	CAA-CBA-CGA	3.33	122.97	113.25
11	BQ	1002	BCL	OBD-CAD-CBD	-3.33	121.14	125.89
11	AD	101	BCL	OBD-CAD-CBD	-3.33	121.14	125.89
11	BH	1004	BCL	OBD-CAD-CBD	-3.33	121.14	125.89
11	BE	103	BCL	OBD-CAD-CBD	-3.32	121.14	125.89
11	AW	101	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	BA	103	BCL	OBD-CAD-CBD	-3.32	121.15	125.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BT	1002	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	BW	1002	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	AW	103	BCL	C4A-NA-C1A	3.32	108.20	106.71
11	bd	103	BCL	C4A-NA-C1A	3.32	108.20	106.71
11	AO	101	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	AU	101	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	bc	104	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	AF	102	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	AU	102	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	BB	105	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	BJ	1004	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
11	L	303	BCL	OBD-CAD-CBD	-3.32	121.15	125.89
13	BL	1001	V7N	C15-C14-C13	-3.32	122.57	127.31
12	AQ	103	LMT	C1-O1'-C1'	3.32	119.34	113.84
11	AP	102	BCL	OBD-CAD-CBD	-3.32	121.16	125.89
11	BD	103	BCL	OBD-CAD-CBD	-3.32	121.16	125.89
11	BF	102	BCL	OBD-CAD-CBD	-3.32	121.16	125.89
11	BP	1002	BCL	OBD-CAD-CBD	-3.32	121.16	125.89
11	AD	102	BCL	OBD-CAD-CBD	-3.31	121.16	125.89
11	ai	101	BCL	OBD-CAD-CBD	-3.31	121.16	125.89
11	ad	102	BCL	OBD-CAD-CBD	-3.31	121.16	125.89
11	AR	102	BCL	OBD-CAD-CBD	-3.31	121.16	125.89
11	ao	102	BCL	OBD-CAD-CBD	-3.31	121.16	125.89
11	AQ	102	BCL	OBD-CAD-CBD	-3.31	121.17	125.89
11	AA	1001	BCL	C4A-NA-C1A	3.31	108.19	106.71
11	ai	101	BCL	C4A-NA-C1A	3.31	108.19	106.71
11	AI	101	BCL	OBD-CAD-CBD	-3.31	121.17	125.89
11	ba	103	BCL	OBD-CAD-CBD	-3.31	121.17	125.89
11	ac	1002	BCL	OBD-CAD-CBD	-3.31	121.17	125.89
11	bn	104	BCL	OBD-CAD-CBD	-3.31	121.17	125.89
11	AJ	102	BCL	OBD-CAD-CBD	-3.31	121.17	125.89
11	AL	102	BCL	OBD-CAD-CBD	-3.30	121.18	125.89
11	AS	104	BCL	OBD-CAD-CBD	-3.30	121.18	125.89
11	ag	102	BCL	OBD-CAD-CBD	-3.30	121.18	125.89
11	AG	101	BCL	C4A-NA-C1A	3.30	108.19	106.71
13	bp	101	V7N	O44-C40-O45	-3.30	116.06	123.61
13	bp	101	V7N	C29-C28-C27	-3.30	112.93	123.22
11	BM	1004	BCL	OBD-CAD-CBD	-3.29	121.19	125.89
11	AS	104	BCL	C4A-NA-C1A	3.29	108.19	106.71
11	BG	1003	BCL	OBD-CAD-CBD	-3.29	121.19	125.89
13	af	103	V7N	C29-C28-C27	-3.29	112.94	123.22
11	AA	1002	BCL	OBD-CAD-CBD	-3.29	121.19	125.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AQ	101	BCL	OBD-CAD-CBD	-3.29	121.19	125.89
11	bg	1002	BCL	OBD-CAD-CBD	-3.29	121.19	125.89
11	AE	102	BCL	C1-O2A-CGA	3.29	125.07	116.44
11	AR	101	BCL	OBD-CAD-CBD	-3.29	121.20	125.89
11	BI	102	BCL	OBD-CAD-CBD	-3.29	121.20	125.89
11	bf	103	BCL	OBD-CAD-CBD	-3.28	121.20	125.89
11	AG	102	BCL	OBD-CAD-CBD	-3.28	121.20	125.89
11	AH	102	BCL	OBD-CAD-CBD	-3.28	121.21	125.89
13	af	103	V7N	O44-C40-O45	-3.28	116.10	123.61
11	BR	102	BCL	OBD-CAD-CBD	-3.28	121.21	125.89
12	AT	102	LMT	O5B-C5B-C4B	3.28	115.65	109.69
15	C	402	HEC	CBD-CAD-C3D	-3.28	107.03	112.62
11	AS	102	BCL	OBD-CAD-CBD	-3.27	121.22	125.89
15	C	404	HEC	CMB-C2B-C3B	3.27	129.67	125.82
13	bo	102	V7N	O44-C40-O45	-3.27	116.12	123.61
11	AL	103	BCL	OBD-CAD-CBD	-3.27	121.22	125.89
11	bb	103	BCL	OBD-CAD-CBD	-3.27	121.22	125.89
13	ba	102	V7N	O44-C40-O45	-3.27	116.12	123.61
11	AI	103	BCL	C4A-NA-C1A	3.27	108.18	106.71
11	AS	101	BCL	C4A-NA-C1A	3.27	108.18	106.71
11	bh	102	BCL	C4A-NA-C1A	3.27	108.18	106.71
11	L	304	BCL	OBD-CAD-CBD	-3.27	121.23	125.89
11	bh	102	BCL	OBD-CAD-CBD	-3.27	121.23	125.89
11	be	105	BCL	OBD-CAD-CBD	-3.27	121.23	125.89
11	AJ	101	BCL	C4A-NA-C1A	3.27	108.17	106.71
11	bk	1002	BCL	OBD-CAD-CBD	-3.26	121.23	125.89
13	AE	105	V7N	C15-C14-C13	-3.26	122.66	127.31
11	ap	1001	BCL	C1-O2A-CGA	3.26	125.00	116.44
11	AR	102	BCL	CAD-C3D-C4D	-3.26	106.65	108.47
11	aa	1001	BCL	CAD-C3D-C4D	-3.26	106.65	108.47
11	AV	102	BCL	OBD-CAD-CBD	-3.26	121.24	125.89
13	bn	101	V7N	O44-C40-O45	-3.26	116.15	123.61
11	M	403	BCL	CHA-C1A-NA	-3.25	118.97	126.40
11	AL	102	BCL	CAD-C3D-C4D	-3.24	106.66	108.47
11	bb	103	BCL	C4A-NA-C1A	3.24	108.16	106.71
13	AT	103	V7N	O44-C40-O45	-3.24	116.19	123.61
11	AN	103	BCL	CAD-C3D-C4D	-3.24	106.66	108.47
11	AF	101	BCL	C4A-NA-C1A	3.23	108.16	106.71
13	BB	101	V7N	C29-C28-C27	-3.23	113.14	123.22
11	bb	103	BCL	CBA-CAA-C2A	3.23	123.40	113.86
13	BE	101	V7N	O44-C40-O45	-3.23	116.22	123.61
11	AW	103	BCL	OBD-CAD-CBD	-3.23	121.28	125.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BC	101	V7N	O44-C40-O45	-3.23	116.23	123.61
13	BP	1001	V7N	O44-C40-O45	-3.23	116.23	123.61
11	bl	104	BCL	C1-O2A-CGA	3.23	124.91	116.44
11	BB	105	BCL	C4A-NA-C1A	3.23	108.16	106.71
11	BF	102	BCL	C4A-NA-C1A	3.23	108.16	106.71
13	AQ	104	V7N	O44-C40-O45	-3.22	116.24	123.61
13	bd	101	V7N	O44-C40-O45	-3.22	116.24	123.61
13	bi	102	V7N	O44-C40-O45	-3.22	116.24	123.61
11	AE	102	BCL	OBD-CAD-CBD	-3.22	121.30	125.89
11	AU	102	BCL	CAD-C3D-C4D	-3.22	106.68	108.47
11	AQ	101	BCL	CMB-C2B-C3B	3.21	130.69	124.68
13	AB	101	V7N	O44-C40-O45	-3.21	116.26	123.61
13	af	103	V7N	C36-C18-C17	-3.21	118.42	122.92
11	bo	105	BCL	C4A-NA-C1A	3.21	108.15	106.71
11	AK	103	BCL	CHA-C1A-NA	-3.21	119.04	126.40
13	BL	1001	V7N	O44-C40-O45	-3.21	116.26	123.61
11	AK	103	BCL	OBD-CAD-CBD	-3.21	121.31	125.89
11	AV	101	BCL	CAD-C3D-C4D	-3.21	106.68	108.47
11	AL	103	BCL	CAD-C3D-C4D	-3.21	106.68	108.47
13	bm	101	V7N	O44-C40-O45	-3.20	116.28	123.61
13	AE	105	V7N	O44-C40-O45	-3.20	116.28	123.61
13	BJ	1001	V7N	O44-C40-O45	-3.20	116.28	123.61
13	bb	101	V7N	O44-C40-O45	-3.20	116.28	123.61
11	AB	103	BCL	C4A-NA-C1A	3.20	108.14	106.71
12	AA	1003	LMT	C3'-C4'-C5'	-3.20	103.60	110.93
13	bj	101	V7N	O44-C40-O45	-3.20	116.29	123.61
13	bh	101	V7N	O44-C40-O45	-3.19	116.30	123.61
11	M	403	BCL	CMB-C2B-C3B	3.19	130.66	124.68
13	bj	101	V7N	C28-C27-C26	-3.19	117.44	126.42
13	bl	101	V7N	O44-C40-O45	-3.19	116.30	123.61
13	ba	102	V7N	C35-C13-C14	-3.19	118.45	122.92
13	aj	103	V7N	O44-C40-O45	-3.19	116.30	123.61
11	AL	102	BCL	CHA-C1A-NA	-3.19	119.09	126.40
12	AH	103	LMT	C1-O1'-C1'	3.19	119.13	113.84
13	bc	101	V7N	O44-C40-O45	-3.19	116.31	123.61
11	AP	102	BCL	C4A-NA-C1A	3.19	108.14	106.71
11	bl	104	BCL	CHA-C1A-NA	-3.19	119.10	126.40
11	BM	1004	BCL	C4A-NA-C1A	3.19	108.14	106.71
13	BO	1001	V7N	O44-C40-O45	-3.18	116.32	123.61
13	AE	101	V7N	O44-C40-O45	-3.18	116.32	123.61
11	ah	1001	BCL	C4A-NA-C1A	3.18	108.14	106.71
13	BN	1001	V7N	O44-C40-O45	-3.18	116.33	123.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BV	1001	V7N	O44-C40-O45	-3.18	116.33	123.61
11	AT	101	BCL	CHA-C1A-NA	-3.18	119.12	126.40
13	AW	104	V7N	O44-C40-O45	-3.18	116.34	123.61
13	be	102	V7N	O44-C40-O45	-3.18	116.34	123.61
11	AI	103	BCL	CHA-C1A-NA	-3.18	119.13	126.40
11	AB	105	BCL	OBD-CAD-CBD	-3.17	121.36	125.89
11	AJ	101	BCL	OBD-CAD-CBD	-3.17	121.36	125.89
11	M	403	BCL	OBD-CAD-CBD	-3.17	121.36	125.89
11	AB	102	BCL	CMB-C2B-C3B	3.17	130.61	124.68
11	AR	101	BCL	CMB-C2B-C3B	3.17	130.61	124.68
12	AK	101	LMT	C3'-C4'-C5'	-3.17	103.66	110.93
11	al	1001	BCL	C4A-NA-C1A	3.16	108.13	106.71
13	BW	1001	V7N	O44-C40-O45	-3.16	116.37	123.61
11	AS	101	BCL	CHA-C1A-NA	-3.16	119.16	126.40
13	BM	1001	V7N	O44-C40-O45	-3.16	116.38	123.61
11	AC	1001	BCL	CAD-C3D-C4D	-3.16	106.71	108.47
11	AI	103	BCL	CAD-C3D-C4D	-3.16	106.71	108.47
13	be	102	V7N	C35-C13-C12	3.16	123.05	118.08
21	M	404	BPH	OBD-CAD-CBD	-3.16	121.19	125.82
13	BG	1001	V7N	O44-C40-O45	-3.15	116.39	123.61
11	ab	101	BCL	C4A-NA-C1A	3.15	108.12	106.71
21	L	309	BPH	OBD-CAD-CBD	-3.15	121.20	125.82
11	al	1001	BCL	CMB-C2B-C3B	3.15	130.57	124.68
11	bl	104	BCL	C4A-NA-C1A	3.15	108.12	106.71
11	AH	101	BCL	CAD-C3D-C4D	-3.15	106.71	108.47
11	AC	1001	BCL	CHA-C1A-NA	-3.15	119.19	126.40
11	AN	103	BCL	CHA-C1A-NA	-3.15	119.19	126.40
11	bf	103	BCL	C4A-NA-C1A	3.15	108.12	106.71
11	BI	102	BCL	CHA-C1A-NA	-3.14	119.20	126.40
11	AI	101	BCL	CAD-C3D-C4D	-3.14	106.72	108.47
13	BB	101	V7N	O44-C40-O45	-3.14	116.43	123.61
11	AK	103	BCL	CAD-C3D-C4D	-3.14	106.72	108.47
13	AH	104	V7N	C35-C13-C14	-3.14	118.53	122.92
12	BE	104	LMT	C1'-O5'-C5'	-3.14	107.53	113.69
13	AH	104	V7N	O44-C40-O45	-3.14	116.43	123.61
11	ae	101	BCL	CMB-C2B-C3B	3.14	130.55	124.68
11	AP	102	BCL	CHA-C1A-NA	-3.14	119.22	126.40
11	ah	1001	BCL	CMB-C2B-C3B	3.13	130.54	124.68
11	af	102	BCL	CMB-C2B-C3B	3.13	130.54	124.68
11	AQ	102	BCL	CHA-C1A-NA	-3.13	119.22	126.40
13	BH	1001	V7N	O44-C40-O45	-3.13	116.44	123.61
13	bf	101	V7N	O44-C40-O45	-3.13	116.44	123.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BM	1002	LMT	C1-O1'-C1'	3.13	119.03	113.84
13	AH	104	V7N	C7-C6-C5	-3.13	122.84	127.31
11	AF	101	BCL	OBD-CAD-CBD	-3.13	121.43	125.89
11	AV	101	BCL	CHA-C1A-NA	-3.13	119.23	126.40
14	bk	1003	0V9	C2-O2-C10	3.13	125.49	117.79
11	AB	103	BCL	CHA-C1A-NA	-3.13	119.24	126.40
11	ad	102	BCL	CMB-C2B-C3B	3.13	130.53	124.68
13	BT	1001	V7N	O44-C40-O45	-3.12	116.46	123.61
11	AW	101	BCL	CHA-C1A-NA	-3.12	119.25	126.40
11	AE	103	BCL	CHA-C1A-NA	-3.12	119.25	126.40
11	BL	1005	BCL	CHA-C1A-NA	-3.12	119.25	126.40
11	BU	1001	BCL	CHA-C1A-NA	-3.12	119.26	126.40
11	AJ	102	BCL	CHA-C1A-NA	-3.12	119.26	126.40
11	bm	103	BCL	CAD-C3D-C4D	-3.12	106.73	108.47
13	BK	1001	V7N	O44-C40-O45	-3.12	116.48	123.61
11	ai	101	BCL	CAD-C3D-C4D	-3.11	106.73	108.47
11	bg	1002	BCL	CAD-C3D-C4D	-3.11	106.73	108.47
13	BQ	1001	V7N	O44-C40-O45	-3.11	116.49	123.61
13	BS	1001	V7N	O44-C40-O45	-3.11	116.50	123.61
13	aj	103	V7N	C36-C18-C17	-3.11	118.57	122.92
11	AA	1002	BCL	CHA-C1A-NA	-3.11	119.28	126.40
11	AK	102	BCL	CHA-C1A-NA	-3.11	119.28	126.40
11	AU	102	BCL	CHA-C1A-NA	-3.11	119.28	126.40
11	AF	102	BCL	CHA-C1A-NA	-3.10	119.29	126.40
11	AD	102	BCL	CHA-C1A-NA	-3.10	119.29	126.40
11	AM	101	BCL	C4A-NA-C1A	3.10	108.10	106.71
11	an	1001	BCL	CMB-C2B-C3B	3.10	130.48	124.68
11	bi	106	BCL	CAD-C3D-C4D	-3.10	106.74	108.47
11	BO	1005	BCL	CHA-C1A-NA	-3.10	119.30	126.40
11	AF	101	BCL	CAD-C3D-C4D	-3.10	106.74	108.47
11	AN	105	BCL	C4A-NA-C1A	3.10	108.10	106.71
13	AE	101	V7N	C29-C28-C27	-3.10	113.55	123.22
11	AW	103	BCL	C1-O2A-CGA	3.10	124.57	116.44
11	aj	102	BCL	CHA-C1A-NA	-3.09	119.31	126.40
14	be	104	0V9	C2-O2-C10	3.09	125.41	117.79
12	BD	101	LMT	C1-O1'-C1'	3.09	118.97	113.84
11	AJ	101	BCL	CHA-C1A-NA	-3.09	119.32	126.40
11	AB	105	BCL	CMB-C2B-C3B	3.09	130.46	124.68
11	AO	101	BCL	CHA-C1A-NA	-3.09	119.32	126.40
13	BT	1001	V7N	C29-C28-C27	-3.09	113.57	123.22
11	AS	101	BCL	CAD-C3D-C4D	-3.09	106.75	108.47
11	AR	102	BCL	CHA-C1A-NA	-3.09	119.33	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BM	1004	BCL	CHA-C1A-NA	-3.09	119.33	126.40
11	AG	101	BCL	CHA-C1A-NA	-3.09	119.33	126.40
13	BT	1001	V7N	C35-C13-C14	-3.09	118.60	122.92
11	BI	102	BCL	C4A-NA-C1A	3.09	108.09	106.71
11	AQ	101	BCL	CAD-C3D-C4D	-3.08	106.75	108.47
11	BX	103	BCL	CHA-C1A-NA	-3.08	119.34	126.40
11	AA	1001	BCL	CHA-C1A-NA	-3.08	119.34	126.40
13	bo	102	V7N	C29-C28-C27	-3.08	113.60	123.22
11	AH	101	BCL	CHA-C1A-NA	-3.08	119.35	126.40
11	AM	102	BCL	CHA-C1A-NA	-3.08	119.35	126.40
11	BR	102	BCL	CHA-C1A-NA	-3.08	119.35	126.40
11	ak	101	BCL	CMB-C2B-C3B	3.08	130.44	124.68
11	AN	102	BCL	CAD-C3D-C4D	-3.08	106.75	108.47
11	AN	105	BCL	CAD-C3D-C4D	-3.08	106.75	108.47
13	AB	101	V7N	C23-C24-C25	3.08	121.99	111.88
11	AL	103	BCL	C4A-NA-C1A	3.08	108.09	106.71
24	af	101	V7B	C43-O4-C4	-3.08	110.35	117.96
11	ap	1001	BCL	CMB-C2B-C3B	3.07	130.43	124.68
13	bl	101	V7N	C29-C28-C27	-3.07	113.63	123.22
11	BB	105	BCL	CHA-C1A-NA	-3.07	119.36	126.40
11	AG	102	BCL	CMB-C2B-C3B	3.07	130.42	124.68
11	BT	1002	BCL	CHA-C1A-NA	-3.07	119.37	126.40
12	BH	1002	LMT	C1-O1'-C1'	3.07	118.93	113.84
11	AN	105	BCL	CMB-C2B-C3B	3.07	130.42	124.68
11	AG	101	BCL	CAD-C3D-C4D	-3.07	106.76	108.47
11	be	105	BCL	CAD-C3D-C4D	-3.06	106.76	108.47
11	AS	102	BCL	CMB-C2B-C3B	3.06	130.41	124.68
11	AN	102	BCL	CMB-C2B-C3B	3.06	130.41	124.68
11	aj	102	BCL	CMB-C2B-C3B	3.06	130.41	124.68
11	AE	103	BCL	CAD-C3D-C4D	-3.06	106.76	108.47
11	BV	1002	BCL	CHA-C1A-NA	-3.06	119.39	126.40
11	BX	103	BCL	CAD-C3D-C4D	-3.06	106.76	108.47
11	AV	102	BCL	CHA-C1A-NA	-3.06	119.39	126.40
13	be	102	V7N	C35-C13-C14	-3.06	118.64	122.92
12	BH	1002	LMT	C3'-C4'-C5'	-3.06	103.91	110.93
11	BG	1003	BCL	CHA-C1A-NA	-3.06	119.39	126.40
12	BR	104	LMT	C3'-C4'-C5'	-3.06	103.91	110.93
16	C	405	NDG	C1-O5-C5	3.06	116.33	112.19
11	BD	103	BCL	CHA-C1A-NA	-3.06	119.40	126.40
12	BT	1005	LMT	C1-O1'-C1'	3.06	118.91	113.84
11	ag	102	BCL	CMB-C2B-C3B	3.06	130.40	124.68
11	am	1001	BCL	CMB-C2B-C3B	3.05	130.39	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AU	101	BCL	C4A-NA-C1A	3.05	108.08	106.71
11	AW	103	BCL	CMB-C2B-C3B	3.05	130.39	124.68
13	AQ	104	V7N	C15-C14-C13	-3.05	122.95	127.31
11	AH	102	BCL	CAD-C3D-C4D	-3.05	106.77	108.47
11	BH	1004	BCL	CHA-C1A-NA	-3.05	119.41	126.40
19	H1	1003	PGW	C02-O01-C1	3.05	125.30	117.79
11	ba	103	BCL	CMB-C2B-C3B	3.05	130.38	124.68
11	BO	1005	BCL	C4A-NA-C1A	3.05	108.08	106.71
12	BF	104	LMT	C1'-O5'-C5'	-3.05	107.71	113.69
20	ao	101	MQ8	C12-C11-C3	3.05	120.26	112.05
11	AQ	101	BCL	C4A-NA-C1A	3.05	108.08	106.71
13	BM	1001	V7N	C35-C13-C14	-3.04	118.66	122.92
12	BF	104	LMT	C1-O1'-C1'	3.04	118.88	113.84
11	ab	101	BCL	CAD-C3D-C4D	-3.04	106.77	108.47
11	BP	1002	BCL	CHA-C1A-NA	-3.04	119.43	126.40
18	ag	101	CD4	C15-O2-C14	3.04	125.28	117.79
11	AG	102	BCL	C4A-NA-C1A	3.04	108.07	106.71
11	AB	103	BCL	CAD-C3D-C4D	-3.04	106.78	108.47
11	BK	1005	BCL	CHA-C1A-NA	-3.04	119.44	126.40
13	AB	101	V7N	C36-C18-C19	3.04	122.86	118.08
13	BV	1001	V7N	C36-C18-C17	-3.04	118.67	122.92
11	AM	101	BCL	CMB-C2B-C3B	3.04	130.36	124.68
11	ai	101	BCL	CMB-C2B-C3B	3.04	130.36	124.68
11	AK	103	BCL	CMB-C2B-C3B	3.04	130.36	124.68
11	BC	105	BCL	CMB-C2B-C3B	3.04	130.36	124.68
11	ah	1001	BCL	CHA-C1A-NA	-3.03	119.45	126.40
11	ae	101	BCL	CAD-C3D-C4D	-3.03	106.78	108.47
11	AF	102	BCL	CAD-C3D-C4D	-3.03	106.78	108.47
11	AO	101	BCL	CAD-C3D-C4D	-3.03	106.78	108.47
11	AH	102	BCL	CHA-C1A-NA	-3.03	119.45	126.40
11	BE	103	BCL	CHA-C1A-NA	-3.03	119.45	126.40
11	BA	103	BCL	CHA-C1A-NA	-3.03	119.45	126.40
11	AP	101	BCL	CHA-C1A-NA	-3.03	119.46	126.40
11	BF	102	BCL	CHA-C1A-NA	-3.03	119.46	126.40
11	ac	1002	BCL	CMB-C2B-C3B	3.03	130.35	124.68
11	AF	101	BCL	CHA-C1A-NA	-3.03	119.46	126.40
11	BC	105	BCL	CHA-C1A-NA	-3.03	119.46	126.40
11	AI	101	BCL	C1-O2A-CGA	3.03	124.39	116.44
18	ae	102	CD4	O16-C46-C47	3.03	118.03	111.50
11	AQ	101	BCL	CBA-CAA-C2A	3.03	122.80	113.86
11	AJ	101	BCL	CMB-C2B-C3B	3.03	130.34	124.68
12	BK	1004	LMT	C1-O1'-C1'	3.03	118.86	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AG	102	BCL	CAD-C3D-C4D	-3.03	106.78	108.47
11	AS	102	BCL	CAD-C3D-C4D	-3.03	106.78	108.47
24	ag	103	V7B	O7-C10-C11	3.03	118.02	111.50
11	AP	101	BCL	CMB-C2B-C3B	3.03	130.34	124.68
11	bo	105	BCL	CMB-C2B-C3B	3.02	130.34	124.68
13	BP	1001	V7N	C35-C13-C14	-3.02	118.69	122.92
11	ba	103	BCL	CHA-C1A-NA	-3.02	119.47	126.40
11	AU	101	BCL	CMB-C2B-C3B	3.02	130.33	124.68
11	AT	101	BCL	CAD-C3D-C4D	-3.02	106.78	108.47
11	AB	103	BCL	C1-C2-C3	3.02	131.27	126.04
13	BP	1001	V7N	C15-C14-C13	-3.02	123.00	127.31
11	AF	101	BCL	CMB-C2B-C3B	3.02	130.32	124.68
11	L	304	BCL	CMB-C2B-C3B	3.02	130.32	124.68
11	BV	1002	BCL	C4A-NA-C1A	3.02	108.06	106.71
12	BL	1006	LMT	C3'-C4'-C5'	-3.02	104.01	110.93
11	ao	102	BCL	CAD-C3D-C4D	-3.01	106.79	108.47
11	BN	1004	BCL	CMB-C2B-C3B	3.01	130.31	124.68
11	AM	102	BCL	CAD-C3D-C4D	-3.01	106.79	108.47
11	AH	101	BCL	C4A-NA-C1A	3.01	108.06	106.71
11	bj	104	BCL	CMB-C2B-C3B	3.01	130.31	124.68
11	BQ	1002	BCL	CHA-C1A-NA	-3.01	119.51	126.40
11	ao	102	BCL	CMB-C2B-C3B	3.01	130.31	124.68
12	AK	104	LMT	C3'-C4'-C5'	-3.01	104.03	110.93
11	BW	1002	BCL	CHA-C1A-NA	-3.01	119.51	126.40
13	aj	103	V7N	C29-C28-C27	-3.01	113.84	123.22
11	AG	102	BCL	CHA-C1A-NA	-3.00	119.52	126.40
11	BN	1004	BCL	CHA-C1A-NA	-3.00	119.52	126.40
11	AP	101	BCL	CAD-C3D-C4D	-3.00	106.80	108.47
11	bm	103	BCL	CHA-C1A-NA	-3.00	119.52	126.40
13	AB	101	V7N	C43-C39-C40	-3.00	111.01	115.69
11	AD	101	BCL	CMB-C2B-C3B	3.00	130.30	124.68
11	bp	104	BCL	CMB-C2B-C3B	3.00	130.30	124.68
11	AK	102	BCL	CAD-C3D-C4D	-3.00	106.80	108.47
11	AE	102	BCL	C4A-NA-C1A	3.00	108.06	106.71
11	BE	103	BCL	C4A-NA-C1A	3.00	108.06	106.71
11	L	303	BCL	CAD-C3D-C4D	-3.00	106.80	108.47
11	ba	103	BCL	CAD-C3D-C4D	-2.99	106.80	108.47
11	AR	101	BCL	C4A-NA-C1A	2.99	108.05	106.71
13	AH	104	V7N	C33-C5-C6	-2.99	118.73	122.92
13	AT	103	V7N	C29-C28-C27	-2.99	113.88	123.22
11	AU	101	BCL	CAD-C3D-C4D	-2.99	106.80	108.47
11	BU	1001	BCL	CAD-C3D-C4D	-2.99	106.80	108.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BV	1002	BCL	CAD-C3D-C4D	-2.99	106.80	108.47
11	bn	104	BCL	CHA-C1A-NA	-2.99	119.54	126.40
13	BN	1001	V7N	C15-C14-C13	-2.99	123.04	127.31
11	AB	102	BCL	CAD-C3D-C4D	-2.99	106.80	108.47
11	bg	1002	BCL	CMB-C2B-C3B	2.99	130.27	124.68
11	AU	101	BCL	CHA-C1A-NA	-2.99	119.55	126.40
11	bf	103	BCL	CBA-CAA-C2A	2.99	122.69	113.86
13	AE	105	V7N	C35-C13-C14	-2.99	118.74	122.92
11	AS	102	BCL	CHA-C1A-NA	-2.99	119.56	126.40
12	BL	1003	LMT	C3'-C4'-C5'	-2.99	104.08	110.93
11	BW	1002	BCL	CMB-C2B-C3B	2.99	130.26	124.68
11	bi	106	BCL	CMB-C2B-C3B	2.99	130.26	124.68
13	BQ	1001	V7N	C36-C18-C17	-2.98	118.74	122.92
11	AM	101	BCL	CHA-C1A-NA	-2.98	119.56	126.40
11	AB	103	BCL	CMB-C2B-C3B	2.98	130.26	124.68
11	bh	102	BCL	CMB-C2B-C3B	2.98	130.26	124.68
11	BX	103	BCL	CMB-C2B-C3B	2.98	130.25	124.68
13	AH	104	V7N	C15-C14-C13	-2.98	123.06	127.31
11	AS	104	BCL	CHA-C1A-NA	-2.97	119.59	126.40
11	AS	104	BCL	CAD-C3D-C4D	-2.97	106.81	108.47
11	ah	1001	BCL	CAD-C3D-C4D	-2.97	106.81	108.47
11	bh	102	BCL	CHA-C1A-NA	-2.97	119.59	126.40
11	bo	105	BCL	CAD-C3D-C4D	-2.97	106.81	108.47
11	AS	104	BCL	CMB-C2B-C3B	2.97	130.24	124.68
11	AN	105	BCL	OBD-CAD-CBD	-2.97	121.65	125.89
11	AH	102	BCL	CMB-C2B-C3B	2.97	130.23	124.68
11	BM	1004	BCL	CMB-C2B-C3B	2.97	130.23	124.68
11	BR	102	BCL	CMB-C2B-C3B	2.97	130.23	124.68
18	M	409	CD4	O16-C46-C47	2.97	117.90	111.50
11	AV	102	BCL	CMB-C2B-C3B	2.97	130.23	124.68
11	BG	1003	BCL	CAD-C3D-C4D	-2.97	106.81	108.47
11	BV	1002	BCL	CMB-C2B-C3B	2.97	130.23	124.68
11	bf	103	BCL	CMB-C2B-C3B	2.97	130.23	124.68
13	bl	101	V7N	C33-C5-C4	2.97	122.75	118.08
11	AN	102	BCL	CHA-C1A-NA	-2.97	119.61	126.40
11	aa	1001	BCL	CHA-C1A-NA	-2.97	119.61	126.40
13	bn	101	V7N	C36-C18-C17	-2.97	118.77	122.92
11	AR	101	BCL	CAD-C3D-C4D	-2.97	106.82	108.47
11	AI	101	BCL	CMB-C2B-C3B	2.97	130.23	124.68
11	BI	102	BCL	CMB-C2B-C3B	2.96	130.22	124.68
11	AD	102	BCL	CMB-C2B-C3B	2.96	130.22	124.68
11	AD	101	BCL	CHA-C1A-NA	-2.96	119.61	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	bi	106	BCL	CHA-C1A-NA	-2.96	119.62	126.40
11	bb	103	BCL	CHA-C1A-NA	-2.96	119.62	126.40
11	BT	1002	BCL	CMB-C2B-C3B	2.96	130.21	124.68
11	bn	104	BCL	CMB-C2B-C3B	2.96	130.21	124.68
11	L	303	BCL	CHA-C1A-NA	-2.96	119.63	126.40
11	BB	105	BCL	CMB-C2B-C3B	2.96	130.21	124.68
11	ad	102	BCL	CHA-C1A-NA	-2.96	119.63	126.40
11	AL	103	BCL	CMB-C2B-C3B	2.95	130.20	124.68
11	bp	104	BCL	C4A-NA-C1A	2.95	108.03	106.71
11	AX	101	BCL	CAD-C3D-C4D	-2.95	106.83	108.47
18	ad	101	CD4	O16-C46-C47	2.95	117.86	111.50
11	bm	103	BCL	CMB-C2B-C3B	2.95	130.19	124.68
11	BL	1005	BCL	CAD-C3D-C4D	-2.95	106.83	108.47
11	bf	103	BCL	CHA-C1A-NA	-2.95	119.65	126.40
12	BE	104	LMT	C1-O1'-C1'	2.95	118.73	113.84
11	AL	103	BCL	CHA-C1A-NA	-2.95	119.65	126.40
13	ba	102	V7N	C36-C18-C17	-2.95	118.80	122.92
11	bb	103	BCL	CAD-C3D-C4D	-2.95	106.83	108.47
11	BA	103	BCL	CMB-C2B-C3B	2.95	130.19	124.68
11	ak	101	BCL	CHA-C1A-NA	-2.94	119.65	126.40
11	ac	1002	BCL	CHA-C1A-NA	-2.94	119.66	126.40
11	bk	1002	BCL	CBA-CAA-C2A	2.94	122.55	113.86
11	BW	1002	BCL	CAD-C3D-C4D	-2.94	106.83	108.47
11	ae	101	BCL	CHA-C1A-NA	-2.94	119.66	126.40
11	AV	104	BCL	CMB-C2B-C3B	2.94	130.18	124.68
11	be	105	BCL	CHA-C1A-NA	-2.94	119.66	126.40
12	BT	1005	LMT	C3'-C4'-C5'	-2.94	104.18	110.93
11	BS	1006	BCL	CHA-C1A-NA	-2.94	119.66	126.40
11	ag	102	BCL	CHA-C1A-NA	-2.94	119.67	126.40
11	AD	101	BCL	CAD-C3D-C4D	-2.94	106.83	108.47
18	M	402	CD4	O3-C16-C15	-2.94	99.88	108.43
13	aj	103	V7N	C35-C13-C14	-2.94	118.81	122.92
11	ac	1002	BCL	CAD-C3D-C4D	-2.94	106.83	108.47
11	AE	102	BCL	CMB-C2B-C3B	2.93	130.17	124.68
11	bb	103	BCL	CMB-C2B-C3B	2.93	130.17	124.68
12	BQ	1004	LMT	C3'-C4'-C5'	-2.93	104.20	110.93
13	BL	1001	V7N	C35-C13-C14	-2.93	118.82	122.92
11	ap	1001	BCL	CHA-C1A-NA	-2.93	119.69	126.40
11	ap	1001	BCL	CAD-C3D-C4D	-2.93	106.84	108.47
11	AT	101	BCL	C2A-C1A-CHA	2.92	128.97	123.86
11	bj	104	BCL	CHA-C1A-NA	-2.92	119.70	126.40
11	bd	103	BCL	CHA-C1A-NA	-2.92	119.70	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AV	104	BCL	CAD-C3D-C4D	-2.92	106.84	108.47
12	AS	103	LMT	O1'-C1'-C2'	2.92	112.87	108.30
11	bc	104	BCL	CMB-C2B-C3B	2.92	130.15	124.68
11	an	1001	BCL	CHA-C1A-NA	-2.92	119.71	126.40
11	bp	104	BCL	CAD-C3D-C4D	-2.92	106.84	108.47
11	bg	1002	BCL	CHA-C1A-NA	-2.92	119.71	126.40
11	bc	104	BCL	CHA-C1A-NA	-2.92	119.71	126.40
11	BU	1001	BCL	CMB-C2B-C3B	2.92	130.14	124.68
11	AI	101	BCL	CHA-C1A-NA	-2.92	119.72	126.40
11	am	1001	BCL	CAD-C3D-C4D	-2.92	106.84	108.47
11	an	1001	BCL	CAD-C3D-C4D	-2.92	106.84	108.47
11	ai	101	BCL	CHA-C1A-NA	-2.92	119.72	126.40
11	BR	102	BCL	CAD-C3D-C4D	-2.91	106.84	108.47
11	AW	103	BCL	CHA-C1A-NA	-2.91	119.72	126.40
13	AH	104	V7N	C3-C4-C5	2.91	130.29	125.89
12	L	306	LMT	C1-O1'-C1'	2.91	118.67	113.84
11	af	102	BCL	CAD-C3D-C4D	-2.91	106.85	108.47
11	bd	103	BCL	C1-O2A-CGA	2.91	124.08	116.44
11	bi	106	BCL	C4A-NA-C1A	2.91	108.01	106.71
13	AQ	104	V7N	C33-C5-C6	-2.91	118.85	122.92
11	BH	1004	BCL	CMB-C2B-C3B	2.91	130.12	124.68
11	AV	104	BCL	CHA-C1A-NA	-2.91	119.74	126.40
11	AR	101	BCL	CHA-C1A-NA	-2.91	119.75	126.40
11	AE	102	BCL	CAD-C3D-C4D	-2.91	106.85	108.47
11	BF	102	BCL	CAD-C3D-C4D	-2.91	106.85	108.47
11	BJ	1004	BCL	CAD-C3D-C4D	-2.91	106.85	108.47
11	AE	102	BCL	CHA-C1A-NA	-2.90	119.75	126.40
11	AK	102	BCL	C2A-C1A-CHA	2.90	128.94	123.86
11	BG	1003	BCL	CMB-C2B-C3B	2.90	130.11	124.68
11	BE	103	BCL	CMB-C2B-C3B	2.90	130.10	124.68
11	AQ	102	BCL	CAD-C3D-C4D	-2.90	106.85	108.47
11	BJ	1004	BCL	CMB-C2B-C3B	2.90	130.10	124.68
11	ao	102	BCL	CHA-C1A-NA	-2.90	119.76	126.40
13	BH	1001	V7N	C33-C5-C6	-2.90	118.87	122.92
11	BF	102	BCL	CMB-C2B-C3B	2.90	130.09	124.68
11	BL	1005	BCL	CMB-C2B-C3B	2.90	130.09	124.68
11	AA	1002	BCL	CMB-C2B-C3B	2.89	130.09	124.68
11	BP	1002	BCL	CAD-C3D-C4D	-2.89	106.86	108.47
13	bm	101	V7N	C35-C13-C12	2.89	122.63	118.08
11	bo	105	BCL	CHA-C1A-NA	-2.89	119.78	126.40
11	bn	104	BCL	CAD-C3D-C4D	-2.89	106.86	108.47
11	BQ	1002	BCL	CMB-C2B-C3B	2.89	130.09	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	al	1001	BCL	CHA-C1A-NA	-2.89	119.78	126.40
11	AQ	102	BCL	C2A-C1A-CHA	2.89	128.91	123.86
11	AQ	101	BCL	CHA-C1A-NA	-2.89	119.78	126.40
11	BJ	1004	BCL	CHA-C1A-NA	-2.89	119.78	126.40
11	bk	1002	BCL	CMB-C2B-C3B	2.89	130.08	124.68
11	BX	103	BCL	C4A-NA-C1A	2.89	108.00	106.71
11	BK	1005	BCL	C1-C2-C3	2.89	131.04	126.04
13	AE	101	V7N	C36-C18-C19	2.89	122.63	118.08
11	AJ	101	BCL	CAD-C3D-C4D	-2.88	106.86	108.47
11	AW	101	BCL	CAD-C3D-C4D	-2.88	106.86	108.47
11	L	304	BCL	CAD-C3D-C4D	-2.88	106.86	108.47
11	bk	1002	BCL	CHA-C1A-NA	-2.88	119.80	126.40
11	bl	104	BCL	CMB-C2B-C3B	2.88	130.07	124.68
13	BG	1001	V7N	C36-C18-C19	2.88	122.62	118.08
11	AS	101	BCL	C2A-C1A-CHA	2.88	128.90	123.86
12	bn	103	LMT	C1B-O5B-C5B	2.88	119.33	113.69
11	be	105	BCL	C4A-NA-C1A	2.88	108.00	106.71
11	ad	102	BCL	CAD-C3D-C4D	-2.87	106.87	108.47
11	AA	1002	BCL	CAD-C3D-C4D	-2.87	106.87	108.47
16	C1	301	NDG	C1-O5-C5	2.87	116.08	112.19
11	BA	103	BCL	CAD-C3D-C4D	-2.87	106.87	108.47
11	BA	103	BCL	C4A-NA-C1A	2.87	108.00	106.71
11	aj	102	BCL	CAD-C3D-C4D	-2.87	106.87	108.47
11	BO	1005	BCL	CMB-C2B-C3B	2.87	130.05	124.68
11	AB	105	BCL	CHA-C1A-NA	-2.87	119.83	126.40
12	BJ	1002	LMT	C1-O1'-C1'	2.87	118.60	113.84
13	AB	101	V7N	C35-C13-C14	-2.87	118.91	122.92
11	bd	103	BCL	CMB-C2B-C3B	2.87	130.04	124.68
11	AV	102	BCL	CAD-C3D-C4D	-2.87	106.87	108.47
11	BS	1006	BCL	CMB-C2B-C3B	2.86	130.03	124.68
13	BG	1001	V7N	C35-C13-C14	-2.86	118.92	122.92
11	af	102	BCL	CHA-C1A-NA	-2.86	119.85	126.40
11	ab	101	BCL	CHA-C1A-NA	-2.86	119.85	126.40
12	AG	103	LMT	O1'-C1'-C2'	2.86	112.76	108.30
12	bn	103	LMT	O5B-C5B-C4B	2.86	114.88	109.69
11	L	304	BCL	CHA-C1A-NA	-2.86	119.86	126.40
11	am	1001	BCL	CHA-C1A-NA	-2.85	119.86	126.40
11	BQ	1002	BCL	CAD-C3D-C4D	-2.85	106.88	108.47
11	BW	1002	BCL	C4A-NA-C1A	2.85	107.99	106.71
13	BM	1001	V7N	C38-C26-C27	-2.85	113.58	118.08
13	BH	1001	V7N	C7-C6-C5	-2.85	123.24	127.31
11	AJ	102	BCL	C2A-C1A-CHA	2.85	128.84	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AN	103	BCL	C2A-C1A-CHA	2.85	128.84	123.86
13	BN	1001	V7N	C35-C13-C14	-2.85	118.93	122.92
11	BK	1005	BCL	O2A-C1-C2	-2.85	101.15	108.64
13	BO	1001	V7N	C29-C28-C27	-2.85	114.34	123.22
13	BM	1001	V7N	C36-C18-C19	2.84	122.55	118.08
12	BW	1004	LMT	O1'-C1'-C2'	2.84	112.74	108.30
11	M	406	BCL	C4A-NA-C1A	2.84	107.98	106.71
11	bp	104	BCL	CHA-C1A-NA	-2.84	119.90	126.40
11	AL	102	BCL	C2A-C1A-CHA	2.84	128.82	123.86
13	bp	101	V7N	C35-C13-C14	-2.84	118.95	122.92
11	bg	1002	BCL	C4A-NA-C1A	2.84	107.98	106.71
11	AN	105	BCL	CHA-C1A-NA	-2.84	119.90	126.40
18	ag	101	CD4	O16-C46-C47	2.84	117.61	111.50
11	BT	1002	BCL	CAD-C3D-C4D	-2.84	106.89	108.47
11	BD	103	BCL	CMB-C2B-C3B	2.83	129.98	124.68
11	AW	101	BCL	C2A-C1A-CHA	2.83	128.81	123.86
12	BW	1003	LMT	O1'-C1'-C2'	2.83	112.72	108.30
11	AH	101	BCL	C2A-C1A-CHA	2.83	128.80	123.86
11	bj	104	BCL	CAD-C3D-C4D	-2.83	106.89	108.47
12	BS	1003	LMT	C3'-C4'-C5'	-2.83	104.45	110.93
11	bk	1002	BCL	CAD-C3D-C4D	-2.82	106.89	108.47
13	bi	102	V7N	C36-C18-C17	-2.82	118.97	122.92
11	BK	1005	BCL	CMB-C2B-C3B	2.82	129.96	124.68
11	M	406	BCL	CHA-C1A-NA	-2.82	119.94	126.40
11	BP	1002	BCL	CMB-C2B-C3B	2.82	129.96	124.68
11	be	105	BCL	CMB-C2B-C3B	2.82	129.95	124.68
11	AB	102	BCL	CHA-C1A-NA	-2.81	119.95	126.40
12	BM	1002	LMT	C3'-C4'-C5'	-2.81	104.47	110.93
13	BS	1001	V7N	C38-C26-C27	-2.81	113.64	118.08
11	BC	105	BCL	CAD-C3D-C4D	-2.81	106.90	108.47
11	BE	103	BCL	CAD-C3D-C4D	-2.81	106.90	108.47
25	ai	102	UYH	O1-C7-C8	-2.81	104.12	110.90
12	BW	1003	LMT	C1'-O5'-C5'	-2.81	108.17	113.69
14	bc	103	OV9	C2-O2-C10	2.81	124.71	117.79
11	BW	1002	BCL	CAA-CBA-CGA	2.81	121.45	113.25
11	AC	1001	BCL	C2A-C1A-CHA	2.81	128.77	123.86
11	BI	102	BCL	CAD-C3D-C4D	-2.80	106.91	108.47
11	AE	103	BCL	C2A-C1A-CHA	2.80	128.76	123.86
13	BK	1001	V7N	C35-C13-C12	2.80	122.49	118.08
11	AA	1001	BCL	C2A-C1A-CHA	2.80	128.75	123.86
13	BT	1001	V7N	C36-C18-C19	2.80	122.48	118.08
11	AS	102	BCL	C4A-NA-C1A	2.79	107.96	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BH	1003	LMT	C3'-C4'-C5'	-2.79	104.52	110.93
13	BJ	1001	V7N	C36-C18-C19	2.79	122.48	118.08
11	L	304	BCL	C2A-C1A-CHA	2.79	128.74	123.86
12	AH	103	LMT	C3'-C4'-C5'	-2.79	104.53	110.93
11	BO	1005	BCL	CAD-C3D-C4D	-2.78	106.92	108.47
18	H1	1001	CD4	O16-C46-C47	2.78	117.50	111.50
11	BB	105	BCL	CAD-C3D-C4D	-2.78	106.92	108.47
13	BB	101	V7N	C35-C13-C12	2.78	122.46	118.08
11	AO	101	BCL	C2A-C1A-CHA	2.78	128.72	123.86
13	BJ	1001	V7N	C38-C26-C27	-2.78	113.70	118.08
11	AL	103	BCL	C2A-C1A-CHA	2.78	128.72	123.86
11	AI	103	BCL	C2A-C1A-CHA	2.78	128.71	123.86
13	bd	101	V7N	C35-C13-C14	-2.77	119.04	122.92
13	BW	1001	V7N	C35-C13-C14	-2.77	119.04	122.92
11	AD	101	BCL	C4A-NA-C1A	2.77	107.95	106.71
11	bc	104	BCL	CAD-C3D-C4D	-2.77	106.93	108.47
11	bh	102	BCL	CAD-C3D-C4D	-2.77	106.93	108.47
13	bf	101	V7N	C35-C13-C14	-2.77	119.05	122.92
11	AR	102	BCL	C2A-C1A-CHA	2.77	128.70	123.86
13	BQ	1001	V7N	C35-C13-C14	-2.77	119.05	122.92
11	AA	1002	BCL	C2A-C1A-CHA	2.77	128.70	123.86
11	M	403	BCL	C2A-C1A-CHA	2.77	128.70	123.86
11	BS	1006	BCL	CAD-C3D-C4D	-2.77	106.93	108.47
11	AU	102	BCL	C2A-C1A-CHA	2.76	128.69	123.86
11	AD	102	BCL	C2A-C1A-CHA	2.76	128.68	123.86
18	H1	1001	CD4	O3-C17-C18	2.76	120.56	111.91
11	AF	102	BCL	C2A-C1A-CHA	2.76	128.68	123.86
11	BN	1004	BCL	CAD-C3D-C4D	-2.76	106.93	108.47
11	bd	103	BCL	CAD-C3D-C4D	-2.76	106.93	108.47
11	bf	103	BCL	CAD-C3D-C4D	-2.75	106.93	108.47
11	AV	104	BCL	C4A-NA-C1A	2.75	107.94	106.71
11	BK	1005	BCL	CAD-C3D-C4D	-2.75	106.94	108.47
13	be	102	V7N	C38-C26-C27	-2.75	113.75	118.08
13	bf	101	V7N	C33-C5-C4	2.75	122.41	118.08
11	AG	101	BCL	C2A-C1A-CHA	2.75	128.66	123.86
11	BE	103	BCL	C2A-C1A-CHA	2.75	128.66	123.86
13	BH	1001	V7N	C3-C4-C5	2.75	130.04	125.89
11	L	303	BCL	C4A-NA-C1A	2.74	107.94	106.71
13	bn	101	V7N	C35-C13-C14	-2.74	119.08	122.92
13	bm	101	V7N	C38-C26-C27	-2.74	113.76	118.08
13	BH	1001	V7N	C35-C13-C14	-2.74	119.09	122.92
13	BS	1001	V7N	C36-C18-C19	2.74	122.39	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BH	1001	V7N	C29-C28-C27	-2.74	114.68	123.22
13	AB	101	V7N	C28-C29-C39	2.73	134.64	126.61
13	BC	101	V7N	C35-C13-C12	2.73	122.38	118.08
13	bj	101	V7N	C35-C13-C12	2.73	122.38	118.08
11	AW	103	BCL	CAD-C3D-C4D	-2.72	106.95	108.47
11	AK	103	BCL	C2A-C1A-CHA	2.72	128.62	123.86
11	BR	102	BCL	C1-C2-C3	-2.72	121.34	126.04
12	bd	102	LMT	C3'-C4'-C5'	-2.72	104.70	110.93
12	AJ	103	LMT	C3'-C4'-C5'	-2.71	104.71	110.93
11	AF	101	BCL	C1-C2-C3	-2.71	121.36	126.04
11	BH	1004	BCL	CAD-C3D-C4D	-2.71	106.96	108.47
12	AG	103	LMT	C3'-C4'-C5'	-2.71	104.72	110.93
13	AW	104	V7N	C36-C18-C19	2.71	122.34	118.08
12	BI	105	LMT	C1-O1'-C1'	2.71	118.33	113.84
11	AG	102	BCL	C1-O2A-CGA	2.71	123.54	116.44
13	bi	102	V7N	C35-C13-C14	-2.70	119.13	122.92
12	AB	104	LMT	C3'-C4'-C5'	-2.70	104.72	110.93
11	AV	101	BCL	C2A-C1A-CHA	2.70	128.58	123.86
11	BL	1005	BCL	C4A-NA-C1A	2.70	107.92	106.71
11	AX	101	BCL	C2A-C1A-CHA	2.69	128.56	123.86
12	bi	101	LMT	O5'-C1'-C2'	-2.69	104.66	110.35
11	AM	101	BCL	CAD-C3D-C4D	-2.69	106.97	108.47
13	AW	104	V7N	C35-C13-C14	-2.69	119.16	122.92
12	BP	1004	LMT	C3'-C4'-C5'	-2.69	104.77	110.93
11	bl	104	BCL	CAD-C3D-C4D	-2.69	106.97	108.47
13	bb	101	V7N	C36-C18-C17	-2.69	119.16	122.92
13	BP	1001	V7N	C36-C18-C17	-2.69	119.16	122.92
13	BE	101	V7N	C35-C13-C14	-2.68	119.16	122.92
11	L	303	BCL	C2A-C1A-CHA	2.68	128.55	123.86
11	BM	1004	BCL	CAD-C3D-C4D	-2.68	106.97	108.47
13	BO	1001	V7N	C33-C5-C6	-2.68	119.17	122.92
11	bc	104	BCL	CBA-CAA-C2A	2.68	121.77	113.86
18	M	402	CD4	O16-C46-C47	2.68	117.27	111.50
11	BR	102	BCL	C4A-NA-C1A	2.68	107.91	106.71
13	bb	101	V7N	C33-C5-C6	-2.68	119.17	122.92
13	AT	103	V7N	C35-C13-C14	-2.67	119.18	122.92
13	bd	101	V7N	C35-C13-C12	2.67	122.29	118.08
13	AE	105	V7N	C36-C18-C19	2.67	122.29	118.08
18	H1	1001	CD4	O2-C14-C13	2.67	117.26	111.50
13	BL	1001	V7N	C36-C18-C19	2.67	122.28	118.08
11	AM	102	BCL	C2A-C1A-CHA	2.67	128.53	123.86
11	AD	102	BCL	C4B-C3B-CAB	-2.67	121.98	127.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BU	1004	LMT	C3'-C4'-C5'	-2.67	104.81	110.93
13	BS	1001	V7N	C35-C13-C12	2.66	122.28	118.08
11	BT	1002	BCL	CBA-CAA-C2A	2.66	121.72	113.86
13	bc	101	V7N	C35-C13-C14	-2.66	119.19	122.92
11	AM	101	BCL	CBA-CAA-C2A	2.66	121.71	113.86
13	BC	101	V7N	C36-C18-C19	2.66	122.26	118.08
13	BO	1001	V7N	C35-C13-C14	-2.65	119.21	122.92
13	BG	1001	V7N	C29-C28-C27	-2.65	114.94	123.22
13	bj	101	V7N	C33-C5-C4	2.65	122.25	118.08
12	BK	1004	LMT	O5'-C5'-C4'	2.65	115.34	109.75
13	AQ	104	V7N	C3-C4-C5	2.65	129.89	125.89
12	BW	1003	LMT	C1-O1'-C1'	2.64	118.23	113.84
13	BJ	1001	V7N	C35-C13-C12	2.64	122.24	118.08
13	bb	101	V7N	C35-C13-C14	-2.64	119.22	122.92
11	AD	101	BCL	C1C-NC-C4C	2.64	107.89	106.71
13	AT	103	V7N	C35-C13-C12	2.64	122.23	118.08
13	be	102	V7N	C33-C5-C4	2.64	122.23	118.08
13	ba	102	V7N	C33-C5-C6	-2.64	119.23	122.92
13	bo	102	V7N	C35-C13-C14	-2.63	119.23	122.92
11	bn	104	BCL	C4A-NA-C1A	2.63	107.89	106.71
13	bl	101	V7N	C35-C13-C12	2.63	122.22	118.08
11	AQ	102	BCL	OBB-CAB-CBB	-2.63	114.25	120.17
13	af	103	V7N	C35-C13-C14	-2.63	119.24	122.92
11	AP	102	BCL	C2A-C1A-CHA	2.63	128.46	123.86
13	BP	1001	V7N	C36-C18-C19	2.63	122.22	118.08
12	BI	105	LMT	C3'-C4'-C5'	-2.63	104.90	110.93
13	bh	101	V7N	C35-C13-C12	2.63	122.21	118.08
13	bp	101	V7N	C36-C18-C17	-2.62	119.26	122.92
13	AQ	104	V7N	C36-C18-C17	-2.61	119.26	122.92
12	AM	103	LMT	C3'-C4'-C5'	-2.61	104.94	110.93
12	BE	104	LMT	C2'-C3'-C4'	2.61	115.64	109.68
11	ba	103	BCL	C4A-NA-C1A	2.61	107.88	106.71
13	bo	102	V7N	C33-C5-C4	2.61	122.19	118.08
12	BV	1005	LMT	O1'-C1'-C2'	2.61	112.37	108.30
12	BR	104	LMT	O5B-C5B-C4B	2.61	114.43	109.69
13	BN	1001	V7N	C36-C18-C19	2.61	122.18	118.08
13	bl	101	V7N	C35-C13-C14	-2.61	119.27	122.92
11	AJ	102	BCL	OBB-CAB-CBB	-2.60	114.31	120.17
11	AS	104	BCL	CAA-CBA-CGA	2.60	120.86	113.25
11	BD	103	BCL	CAD-C3D-C4D	-2.60	107.02	108.47
11	AM	102	BCL	OBB-CAB-CBB	-2.60	114.31	120.17
12	ac	1001	LMT	O1'-C1'-C2'	2.60	112.36	108.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AV	102	BCL	C2A-C1A-CHA	2.60	128.41	123.86
11	BI	102	BCL	C2A-C1A-CHA	2.60	128.41	123.86
13	bn	101	V7N	C35-C13-C12	2.60	122.17	118.08
11	AJ	101	BCL	C2A-C1A-CHA	2.60	128.41	123.86
12	BJ	1003	LMT	C1'-O5'-C5'	-2.60	108.59	113.69
11	AK	102	BCL	CMB-C2B-C3B	2.60	129.54	124.68
12	AL	104	LMT	C3'-C4'-C5'	-2.60	104.97	110.93
13	bd	101	V7N	C33-C5-C4	2.60	122.17	118.08
13	AW	104	V7N	C35-C13-C12	2.60	122.17	118.08
12	AQ	103	LMT	C3'-C4'-C5'	-2.60	104.97	110.93
11	AI	103	BCL	CMB-C2B-C3B	2.59	129.53	124.68
11	AN	103	BCL	OBB-CAB-CBB	-2.59	114.34	120.17
12	AE	104	LMT	C3'-C4'-C5'	-2.59	104.98	110.93
11	AF	101	BCL	C2A-C1A-CHA	2.59	128.39	123.86
12	M	408	LMT	C3'-C4'-C5'	-2.59	104.99	110.93
11	AB	102	BCL	C2A-C1A-CHA	2.59	128.39	123.86
11	AW	103	BCL	C2A-C1A-CHA	2.59	128.39	123.86
12	BN	1005	LMT	C3'-C4'-C5'	-2.59	105.00	110.93
12	bl	102	LMT	O5B-C5B-C4B	2.59	114.39	109.69
11	AH	101	BCL	OBB-CAB-CBB	-2.58	114.36	120.17
11	AT	101	BCL	OBB-CAB-CBB	-2.58	114.36	120.17
11	AJ	102	BCL	CMB-C2B-C3B	2.58	129.51	124.68
12	BG	1002	LMT	O1'-C1'-C2'	2.58	112.33	108.30
13	bh	101	V7N	C33-C5-C4	2.58	122.14	118.08
13	be	102	V7N	C36-C18-C17	-2.58	119.31	122.92
11	AO	101	BCL	OBB-CAB-CBB	-2.58	114.37	120.17
13	BW	1001	V7N	C36-C18-C19	2.58	122.14	118.08
13	bc	101	V7N	C33-C5-C4	2.57	122.13	118.08
12	bi	101	LMT	O1'-C1'-C2'	2.57	112.32	108.30
11	AP	101	BCL	C2A-C1A-CHA	2.57	128.36	123.86
11	AE	102	BCL	CAA-CBA-CGA	2.57	120.76	113.25
11	AR	102	BCL	OBB-CAB-CBB	-2.57	114.39	120.17
13	BK	1001	V7N	C36-C18-C17	-2.57	119.33	122.92
18	ae	102	CD4	O2-C14-O1	-2.57	117.50	123.70
13	BK	1001	V7N	C36-C18-C19	2.56	122.11	118.08
11	AW	101	BCL	OBB-CAB-CBB	-2.56	114.41	120.17
11	AA	1001	BCL	OBB-CAB-CBB	-2.56	114.41	120.17
11	bd	103	BCL	CBA-CAA-C2A	2.56	121.42	113.86
11	AG	102	BCL	C2A-C1A-CHA	2.56	128.34	123.86
11	AP	102	BCL	CMB-C2B-C3B	2.56	129.47	124.68
12	BP	1003	LMT	C3'-C4'-C5'	-2.56	105.06	110.93
13	BQ	1001	V7N	C35-C13-C12	2.56	122.11	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AK	102	BCL	OBB-CAB-CBB	-2.56	114.42	120.17
12	AT	102	LMT	C2'-C3'-C4'	2.56	115.52	109.68
13	BE	101	V7N	C35-C13-C12	2.55	122.10	118.08
11	aj	102	BCL	OBB-CAB-CBB	-2.55	114.43	120.17
13	bo	102	V7N	C36-C18-C17	-2.55	119.35	122.92
13	bl	101	V7N	C1-C2-C3	2.55	119.82	113.06
11	AS	101	BCL	CMB-C2B-C3B	2.55	129.45	124.68
11	AB	105	BCL	C4A-NA-C1A	2.55	107.85	106.71
11	AU	102	BCL	OBB-CAB-CBB	-2.55	114.43	120.17
11	AA	1001	BCL	CMB-C2B-C3B	2.55	129.45	124.68
11	AS	101	BCL	OBB-CAB-CBB	-2.55	114.43	120.17
11	AG	101	BCL	OBB-CAB-CBB	-2.55	114.44	120.17
11	AB	102	BCL	C4A-NA-C1A	2.55	107.85	106.71
11	AC	1001	BCL	CMB-C2B-C3B	2.55	129.44	124.68
11	AR	102	BCL	CMB-C2B-C3B	2.55	129.44	124.68
11	ad	102	BCL	C2A-C1A-CHA	2.54	128.31	123.86
11	AV	101	BCL	OBB-CAB-CBB	-2.54	114.44	120.17
13	BH	1001	V7N	C35-C13-C12	2.54	122.08	118.08
13	BC	101	V7N	C35-C13-C14	-2.54	119.36	122.92
11	ah	1001	BCL	C2A-C1A-CHA	2.54	128.30	123.86
13	BO	1001	V7N	C35-C13-C12	2.54	122.08	118.08
11	AN	102	BCL	C2A-C1A-CHA	2.54	128.30	123.86
11	AP	102	BCL	OBB-CAB-CBB	-2.54	114.45	120.17
12	AS	103	LMT	C3'-C4'-C5'	-2.54	105.11	110.93
11	BH	1004	BCL	C2A-C1A-CHA	2.54	128.29	123.86
13	BK	1001	V7N	C35-C13-C14	-2.54	119.37	122.92
11	AE	103	BCL	OBB-CAB-CBB	-2.54	114.46	120.17
13	BB	101	V7N	C35-C13-C14	-2.53	119.37	122.92
11	bm	103	BCL	CMD-C2D-C3D	2.53	129.42	124.68
13	af	103	V7N	C33-C5-C4	2.53	122.07	118.08
11	BP	1002	BCL	O2A-C1-C2	-2.53	101.98	108.64
11	BD	103	BCL	C2A-C1A-CHA	2.53	128.29	123.86
24	ag	103	V7B	C43-O4-C4	-2.53	111.70	117.96
11	AD	101	BCL	CBA-CAA-C2A	2.53	121.34	113.86
11	BC	105	BCL	C2A-C1A-CHA	2.53	128.28	123.86
13	BH	1001	V7N	C36-C18-C19	2.53	122.06	118.08
13	bf	101	V7N	C35-C13-C12	2.53	122.06	118.08
11	AB	103	BCL	C2A-C1A-CHA	2.53	128.28	123.86
11	ak	101	BCL	C2A-C1A-CHA	2.53	128.28	123.86
11	BK	1005	BCL	C1-O2A-CGA	2.53	123.07	116.44
11	ag	102	BCL	OBB-CAB-CBB	-2.53	114.48	120.17
18	ae	102	CD4	O3-C17-C18	2.53	119.83	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	af	103	V7N	C35-C13-C12	2.53	122.06	118.08
11	AO	101	BCL	CMB-C2B-C3B	2.52	129.40	124.68
11	AX	101	BCL	CMB-C2B-C3B	2.52	129.40	124.68
11	AC	1001	BCL	OBB-CAB-CBB	-2.52	114.49	120.17
11	AI	103	BCL	OBB-CAB-CBB	-2.52	114.49	120.17
12	BO	1002	LMT	C3'-C4'-C5'	-2.52	105.15	110.93
12	AN	104	LMT	C1-O1'-C1'	2.52	118.02	113.84
13	bh	101	V7N	C35-C13-C14	-2.52	119.39	122.92
13	bb	101	V7N	C7-C6-C5	-2.52	123.72	127.31
11	AF	102	BCL	OBB-CAB-CBB	-2.52	114.50	120.17
13	bm	101	V7N	C35-C13-C14	-2.52	119.40	122.92
12	AD	103	LMT	O1'-C1'-C2'	2.52	112.23	108.30
13	bi	102	V7N	C35-C13-C12	2.52	122.04	118.08
11	AW	103	BCL	CBA-CAA-C2A	2.52	121.29	113.86
11	ap	1001	BCL	OBB-CAB-CBB	-2.51	114.51	120.17
13	bc	101	V7N	C35-C13-C12	2.51	122.04	118.08
11	AQ	102	BCL	CMB-C2B-C3B	2.51	129.38	124.68
11	BT	1002	BCL	C2A-C1A-CHA	2.51	128.25	123.86
12	AH	105	LMT	O5'-C1'-C2'	-2.51	105.03	110.35
11	AV	101	BCL	CMB-C2B-C3B	2.51	129.38	124.68
11	aa	1001	BCL	CMB-C2B-C3B	2.51	129.38	124.68
11	am	1001	BCL	OBB-CAB-CBB	-2.51	114.52	120.17
13	AE	105	V7N	C23-C24-C25	2.51	120.14	111.88
13	AB	101	V7N	C15-C14-C13	-2.51	123.73	127.31
13	aj	103	V7N	C35-C13-C12	2.51	122.03	118.08
12	bm	102	LMT	C3'-C4'-C5'	-2.51	105.17	110.93
11	AM	101	BCL	C2A-C1A-CHA	2.51	128.25	123.86
11	AM	102	BCL	CMB-C2B-C3B	2.51	129.37	124.68
19	H1	1003	PGW	O01-C1-C2	2.51	116.91	111.50
11	AE	103	BCL	CMB-C2B-C3B	2.51	129.37	124.68
11	bn	104	BCL	CMD-C2D-C3D	2.51	129.37	124.68
13	be	102	V7N	C36-C18-C19	2.51	122.03	118.08
11	aj	102	BCL	C4A-NA-C1A	2.51	107.83	106.71
12	AV	103	LMT	C1'-O5'-C5'	-2.51	108.77	113.69
11	aj	102	BCL	C1-O2A-CGA	2.50	123.02	116.44
24	af	101	V7B	O8-C28-C29	2.50	119.77	111.91
11	ab	101	BCL	CMB-C2B-C3B	2.50	129.36	124.68
11	AA	1002	BCL	C11-C10-C8	2.50	124.01	115.92
11	AG	101	BCL	CMB-C2B-C3B	2.50	129.36	124.68
11	AE	102	BCL	CBA-CAA-C2A	2.50	121.25	113.86
11	BM	1004	BCL	C2A-C1A-CHA	2.50	128.23	123.86
11	bd	103	BCL	CMD-C2D-C3D	2.50	129.36	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AX	101	BCL	OBB-CAB-CBB	-2.50	114.54	120.17
13	bo	102	V7N	C35-C13-C12	2.50	122.02	118.08
11	bh	102	BCL	CMD-C2D-C3D	2.50	129.35	124.68
13	BS	1001	V7N	C35-C13-C14	-2.50	119.42	122.92
11	AF	102	BCL	CMB-C2B-C3B	2.50	129.35	124.68
13	BO	1001	V7N	C3-C4-C5	2.50	129.66	125.89
13	bd	101	V7N	C36-C18-C17	-2.50	119.43	122.92
13	BW	1001	V7N	C15-C14-C13	-2.49	123.75	127.31
11	bi	106	BCL	CMD-C2D-C3D	2.49	129.34	124.68
21	L	309	BPH	CMB-C2B-C3B	2.49	129.34	124.68
11	BH	1004	BCL	CBA-CAA-C2A	2.49	121.22	113.86
11	AR	101	BCL	C2A-C1A-CHA	2.49	128.21	123.86
25	ai	102	UYH	O7-C10-C11	2.49	116.87	111.50
13	BS	1001	V7N	C33-C5-C4	2.49	122.00	118.08
11	AM	101	BCL	CAA-CBA-CGA	2.49	120.53	113.25
11	AT	101	BCL	CMB-C2B-C3B	2.49	129.34	124.68
11	BU	1001	BCL	C4A-NA-C1A	2.49	107.83	106.71
13	BE	101	V7N	C36-C18-C19	2.49	122.00	118.08
11	BV	1002	BCL	C2A-C1A-CHA	2.49	128.21	123.86
13	BC	101	V7N	C36-C18-C17	-2.49	119.44	122.92
11	ag	102	BCL	C2A-C1A-CHA	2.49	128.21	123.86
11	bb	103	BCL	CMD-C2D-C3D	2.49	129.33	124.68
13	bh	101	V7N	C36-C18-C17	-2.49	119.44	122.92
11	BM	1004	BCL	CBA-CAA-C2A	2.48	121.20	113.86
11	ab	101	BCL	OBB-CAB-CBB	-2.48	114.58	120.17
13	AB	101	V7N	C43-C39-C29	2.48	129.43	123.42
12	BM	1003	LMT	O1'-C1'-C2'	2.48	112.18	108.30
11	bl	104	BCL	CMD-C2D-C3D	2.48	129.32	124.68
11	ad	102	BCL	OBB-CAB-CBB	-2.48	114.59	120.17
11	an	1001	BCL	OBB-CAB-CBB	-2.48	114.59	120.17
13	BJ	1001	V7N	C35-C13-C14	-2.48	119.45	122.92
11	bj	104	BCL	CMD-C2D-C3D	2.48	129.31	124.68
12	BA	101	LMT	C3'-C4'-C5'	-2.48	105.25	110.93
11	AH	101	BCL	CMB-C2B-C3B	2.47	129.31	124.68
12	AA	1003	LMT	C1-O1'-C1'	2.47	117.94	113.84
12	AK	101	LMT	C1-O1'-C1'	2.47	117.94	113.84
11	ah	1001	BCL	OBB-CAB-CBB	-2.47	114.60	120.17
11	AB	103	BCL	OBB-CAB-CBB	-2.47	114.61	120.17
11	M	406	BCL	C2A-C1A-CHA	2.47	128.18	123.86
11	AI	101	BCL	CBA-CAA-C2A	2.47	121.16	113.86
11	AN	103	BCL	CMB-C2B-C3B	2.47	129.30	124.68
11	AD	101	BCL	CAA-CBA-CGA	2.47	120.47	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AH	102	BCL	CBA-CAA-C2A	2.47	121.15	113.86
12	BF	104	LMT	O1'-C1'-C2'	2.47	112.16	108.30
11	aa	1001	BCL	OBB-CAB-CBB	-2.47	114.62	120.17
11	AW	101	BCL	CMB-C2B-C3B	2.47	129.29	124.68
11	ae	101	BCL	C2A-C1A-CHA	2.47	128.17	123.86
11	BL	1005	BCL	C2A-C1A-CHA	2.47	128.17	123.86
11	AB	105	BCL	OBB-CAB-CBB	-2.47	114.62	120.17
11	AL	102	BCL	CMB-C2B-C3B	2.46	129.29	124.68
11	ba	103	BCL	C2A-C1A-CHA	2.46	128.16	123.86
12	BP	1005	LMT	O5'-C1'-C2'	-2.46	105.14	110.35
12	BU	1004	LMT	O5'-C1'-O1'	-2.46	104.15	109.97
11	bj	104	BCL	CBA-CAA-C2A	2.46	121.13	113.86
13	bp	101	V7N	C33-C5-C4	2.46	121.95	118.08
15	C	403	HEC	CBA-CAA-C2A	-2.46	108.46	112.60
11	AD	102	BCL	C1-C2-C3	-2.46	121.79	126.04
11	AW	103	BCL	OBB-CAB-CBB	-2.46	114.64	120.17
11	M	403	BCL	OBB-CAB-CBB	-2.46	114.64	120.17
13	bf	101	V7N	C36-C18-C17	-2.46	119.48	122.92
11	al	1001	BCL	OBB-CAB-CBB	-2.46	114.64	120.17
15	C	402	HEC	CBA-CAA-C2A	-2.46	108.47	112.60
13	bo	102	V7N	C3-C4-C5	2.46	129.60	125.89
11	AI	101	BCL	C2A-C1A-CHA	2.46	128.15	123.86
11	bd	103	BCL	C1-C2-C3	2.46	130.29	126.04
11	bk	1002	BCL	CMD-C2D-C3D	2.45	129.27	124.68
12	BG	1002	LMT	C3'-C4'-C5'	-2.45	105.31	110.93
11	bo	105	BCL	CMD-C2D-C3D	2.45	129.26	124.68
13	bj	101	V7N	C35-C13-C14	-2.45	119.49	122.92
11	AQ	101	BCL	OBB-CAB-CBB	-2.45	114.65	120.17
11	ba	103	BCL	CMD-C2D-C3D	2.45	129.26	124.68
11	BG	1003	BCL	C2A-C1A-CHA	2.45	128.14	123.86
11	BP	1002	BCL	C2A-C1A-CHA	2.45	128.14	123.86
11	AL	102	BCL	OBB-CAB-CBB	-2.45	114.66	120.17
11	AU	102	BCL	CMB-C2B-C3B	2.45	129.26	124.68
12	BV	1003	LMT	C1-O1'-C1'	2.45	117.90	113.84
11	bf	103	BCL	C2A-C1A-CHA	2.45	128.14	123.86
11	ac	1002	BCL	OBB-CAB-CBB	-2.44	114.67	120.17
11	aa	1001	BCL	C2A-C1A-CHA	2.44	128.13	123.86
11	ak	101	BCL	OBB-CAB-CBB	-2.44	114.67	120.17
11	af	102	BCL	OBB-CAB-CBB	-2.44	114.68	120.17
13	BP	1001	V7N	C33-C5-C4	2.44	121.92	118.08
11	be	105	BCL	CMD-C2D-C3D	2.44	129.24	124.68
11	AB	105	BCL	CAC-C3C-C4C	2.44	118.00	112.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	bm	101	V7N	C36-C18-C17	-2.44	119.51	122.92
12	BG	1002	LMT	C1-O1'-C1'	2.44	117.88	113.84
21	L	309	BPH	OBB-CAB-CBB	-2.44	114.68	120.17
13	BM	1001	V7N	C36-C18-C17	-2.44	119.51	122.92
11	ae	101	BCL	OBB-CAB-CBB	-2.44	114.69	120.17
13	af	103	V7N	C16-C17-C18	-2.44	123.83	127.31
13	BO	1001	V7N	C36-C18-C19	2.43	121.91	118.08
12	AW	102	LMT	C1'-O5'-C5'	-2.43	108.91	113.69
12	H2	201	LMT	C3'-C4'-C5'	-2.43	105.35	110.93
11	bc	104	BCL	CMD-C2D-C3D	2.43	129.22	124.68
11	AQ	101	BCL	C2A-C1A-CHA	2.43	128.11	123.86
11	BN	1004	BCL	C1-O2A-CGA	2.43	122.82	116.44
13	BH	1001	V7N	C36-C18-C17	-2.43	119.52	122.92
11	AB	102	BCL	OBB-CAB-CBB	-2.43	114.70	120.17
12	bb	105	LMT	C3'-C4'-C5'	-2.43	105.36	110.93
14	bd	104	OV9	O3P-P-O2P	2.43	118.55	109.07
11	AK	103	BCL	CBA-CAA-C2A	2.43	121.02	113.86
13	AB	101	V7N	C35-C13-C12	2.43	121.90	118.08
12	BE	104	LMT	O5'-C1'-C2'	-2.42	105.22	110.35
11	ai	101	BCL	OBB-CAB-CBB	-2.42	114.72	120.17
11	AR	101	BCL	OBB-CAB-CBB	-2.42	114.72	120.17
11	AE	102	BCL	C1-C2-C3	-2.42	121.86	126.04
11	bf	103	BCL	CMD-C2D-C3D	2.42	129.21	124.68
11	AU	101	BCL	C2A-C1A-CHA	2.42	128.09	123.86
12	BN	1003	LMT	C3'-C4'-C5'	-2.42	105.39	110.93
11	AD	102	BCL	OBB-CAB-CBB	-2.42	114.73	120.17
13	AQ	104	V7N	C36-C18-C19	2.42	121.88	118.08
13	BK	1001	V7N	C33-C5-C4	2.41	121.88	118.08
11	BR	102	BCL	C2A-C1A-CHA	2.41	128.08	123.86
11	AB	103	BCL	C4B-C3B-CAB	-2.41	122.47	127.13
12	BX	102	LMT	C1-O1'-C1'	2.41	117.84	113.84
13	bc	101	V7N	C36-C18-C17	-2.41	119.55	122.92
11	bc	104	BCL	C2A-C1A-CHA	2.41	128.07	123.86
11	BE	103	BCL	CAA-CBA-CGA	2.41	120.30	113.25
12	BU	1004	LMT	O1'-C1'-C2'	2.41	112.07	108.30
11	an	1001	BCL	C2A-C1A-CHA	2.41	128.07	123.86
13	BG	1001	V7N	C33-C5-C4	2.41	121.87	118.08
11	bp	104	BCL	CMD-C2D-C3D	2.41	129.18	124.68
11	BB	105	BCL	C2A-C1A-CHA	2.41	128.07	123.86
13	bb	101	V7N	C29-C28-C27	-2.41	115.71	123.22
13	AE	101	V7N	C35-C13-C12	2.40	121.87	118.08
18	M	409	CD4	O14-C35-C36	2.40	119.45	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AV	104	BCL	OBB-CAB-CBB	-2.40	114.76	120.17
11	AE	102	BCL	C2A-C1A-CHA	2.40	128.06	123.86
13	BB	101	V7N	C36-C18-C19	2.40	121.86	118.08
11	ac	1002	BCL	C2A-C1A-CHA	2.40	128.06	123.86
13	BJ	1001	V7N	C36-C18-C17	-2.40	119.56	122.92
13	BC	101	V7N	C33-C5-C4	2.40	121.86	118.08
13	BB	101	V7N	C36-C18-C17	-2.40	119.56	122.92
11	AU	101	BCL	CAC-C3C-C4C	2.40	117.91	112.58
12	AH	105	LMT	O5'-C5'-C4'	2.40	114.81	109.75
11	AS	104	BCL	C2A-C1A-CHA	2.39	128.05	123.86
15	C	404	HEC	C1D-C2D-C3D	-2.39	105.33	107.00
13	AH	104	V7N	C36-C18-C17	-2.39	119.57	122.92
11	AL	103	BCL	CAA-CBA-CGA	2.39	120.24	113.25
11	bg	1002	BCL	CMD-C2D-C3D	2.39	129.15	124.68
11	BU	1001	BCL	C2A-C1A-CHA	2.39	128.04	123.86
11	ao	102	BCL	OBB-CAB-CBB	-2.39	114.79	120.17
11	L	304	BCL	C4A-NA-C1A	2.39	107.78	106.71
13	AT	103	V7N	C36-C18-C17	-2.39	119.58	122.92
11	AV	104	BCL	O2A-CGA-O1A	-2.39	117.57	123.59
23	M	405	CRT	C35-C33-C32	2.39	122.60	118.94
11	AH	102	BCL	C2A-C1A-CHA	2.38	128.03	123.86
13	bb	101	V7N	C35-C13-C12	2.38	121.83	118.08
11	al	1001	BCL	C2A-C1A-CHA	2.38	128.03	123.86
13	bj	101	V7N	C36-C18-C17	-2.38	119.58	122.92
11	AN	102	BCL	OBB-CAB-CBB	-2.38	114.81	120.17
18	H1	1001	CD4	O14-C35-C36	2.38	119.39	111.91
11	AS	104	BCL	CBA-CAA-C2A	2.38	120.89	113.86
13	BT	1001	V7N	C33-C5-C4	2.38	121.83	118.08
11	L	303	BCL	CMB-C2B-C3B	2.38	129.13	124.68
11	AD	101	BCL	C1-O2A-CGA	2.38	122.68	116.44
11	bm	103	BCL	C4A-NA-C1A	2.38	107.78	106.71
11	BI	102	BCL	CMD-C2D-C3D	2.38	129.13	124.68
12	BF	103	LMT	C1-O1'-C1'	2.37	117.78	113.84
11	BQ	1002	BCL	C2A-C1A-CHA	2.37	128.01	123.86
13	BE	101	V7N	C33-C5-C4	2.37	121.82	118.08
11	AF	101	BCL	OBB-CAB-CBB	-2.37	114.83	120.17
11	AS	101	BCL	CMD-C2D-C3D	2.37	129.12	124.68
11	BS	1006	BCL	C1-C2-C3	-2.37	121.94	126.04
13	AE	101	V7N	C33-C5-C4	2.37	121.81	118.08
12	BL	1002	LMT	C3'-C4'-C5'	-2.37	105.49	110.93
15	C	402	HEC	C1D-C2D-C3D	-2.37	105.35	107.00
11	M	406	BCL	CMB-C2B-C3B	2.37	129.11	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	ai	102	UYH	O6-C1-C2	2.37	115.36	110.35
11	BN	1004	BCL	OBB-CAB-CBB	-2.37	114.84	120.17
11	BC	105	BCL	C1-O2A-CGA	2.37	122.66	116.44
12	L	307	LMT	O1'-C1'-C2'	2.37	112.00	108.30
13	AW	104	V7N	C36-C18-C17	-2.37	119.61	122.92
11	BX	103	BCL	CMD-C2D-C3D	2.37	129.11	124.68
11	AP	101	BCL	OBB-CAB-CBB	-2.37	114.84	120.17
12	AV	103	LMT	C3'-C4'-C5'	-2.37	105.50	110.93
11	L	303	BCL	CMD-C2D-C3D	2.36	129.10	124.68
13	BM	1001	V7N	C33-C5-C4	2.36	121.80	118.08
12	BL	1004	LMT	C1'-O5'-C5'	-2.36	109.05	113.69
11	BX	103	BCL	C4B-C3B-CAB	-2.36	122.57	127.13
11	BC	105	BCL	CMD-C2D-C3D	2.36	129.09	124.68
11	af	102	BCL	C2A-C1A-CHA	2.36	127.98	123.86
11	ai	101	BCL	C2A-C1A-CHA	2.36	127.98	123.86
13	BN	1001	V7N	C35-C13-C12	2.36	121.79	118.08
11	ap	1001	BCL	CMD-C2D-C3D	2.35	129.08	124.68
13	AH	104	V7N	C36-C18-C19	2.35	121.78	118.08
11	BH	1004	BCL	CMD-C2D-C3D	2.35	129.08	124.68
11	AP	102	BCL	CMD-C2D-C3D	2.35	129.08	124.68
25	ai	102	UYH	C3-C4-C5	-2.35	106.05	110.24
13	bi	102	V7N	C33-C5-C4	2.35	121.78	118.08
11	AF	102	BCL	CMD-C2D-C3D	2.35	129.07	124.68
11	BB	105	BCL	OBB-CAB-CBB	-2.35	114.89	120.17
11	BJ	1004	BCL	CMD-C2D-C3D	2.34	129.06	124.68
11	bc	104	BCL	OBB-CAB-CBB	-2.34	114.89	120.17
11	AK	103	BCL	C1-C2-C3	-2.34	121.99	126.04
11	BA	103	BCL	CMD-C2D-C3D	2.34	129.06	124.68
11	BU	1001	BCL	CMD-C2D-C3D	2.34	129.06	124.68
11	BD	103	BCL	C4B-C3B-CAB	-2.34	122.61	127.13
11	ap	1001	BCL	C2A-C1A-CHA	2.34	127.95	123.86
11	AS	101	BCL	C1-C2-C3	-2.34	122.00	126.04
11	bp	104	BCL	OBB-CAB-CBB	-2.34	114.91	120.17
13	BN	1001	V7N	C33-C5-C4	2.34	121.76	118.08
18	M	402	CD4	O14-C35-C36	2.34	119.24	111.91
11	ak	101	BCL	CMD-C2D-C3D	2.34	129.05	124.68
11	AB	105	BCL	C2A-C1A-CHA	2.34	127.94	123.86
12	bn	103	LMT	O5B-C1B-C2B	2.33	115.29	110.35
13	AT	103	V7N	C36-C18-C19	2.33	121.75	118.08
11	BM	1004	BCL	C1-O2A-CGA	2.33	122.57	116.44
11	BL	1005	BCL	C4B-C3B-CAB	-2.33	122.62	127.13
13	BW	1001	V7N	C35-C13-C12	2.33	121.75	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AI	103	BCL	CMD-C2D-C3D	2.33	129.04	124.68
14	bd	104	0V9	C2-O2-C10	2.33	123.53	117.79
11	AJ	101	BCL	OBB-CAB-CBB	-2.33	114.92	120.17
13	BE	101	V7N	C36-C18-C17	-2.33	119.66	122.92
11	AU	101	BCL	OBB-CAB-CBB	-2.33	114.92	120.17
11	BT	1002	BCL	CMD-C2D-C3D	2.33	129.04	124.68
13	AE	101	V7N	C35-C13-C14	-2.33	119.66	122.92
11	BN	1004	BCL	C2A-C1A-CHA	2.33	127.93	123.86
12	AD	103	LMT	C1'-O5'-C5'	-2.33	109.12	113.69
12	BD	105	LMT	C1'-O5'-C5'	-2.33	109.12	113.69
11	BN	1004	BCL	CMD-C2D-C3D	2.33	129.03	124.68
12	BA	102	LMT	C1'-O5'-C5'	-2.33	109.12	113.69
11	AM	101	BCL	OBB-CAB-CBB	-2.33	114.93	120.17
11	BC	105	BCL	C4B-C3B-CAB	-2.33	122.63	127.13
11	AP	101	BCL	CMD-C2D-C3D	2.33	129.03	124.68
11	BW	1002	BCL	CMD-C2D-C3D	2.33	129.03	124.68
11	AI	101	BCL	OBB-CAB-CBB	-2.33	114.94	120.17
11	BD	103	BCL	CBA-CAA-C2A	2.32	120.72	113.86
11	BJ	1004	BCL	C2A-C1A-CHA	2.32	127.92	123.86
11	BO	1005	BCL	CMD-C2D-C3D	2.32	129.02	124.68
14	bb	104	0V9	O3P-P-O2P	2.32	118.14	109.07
13	AB	101	V7N	C33-C5-C4	2.32	121.74	118.08
12	bp	102	LMT	C3'-C4'-C5'	-2.32	105.60	110.93
11	bh	102	BCL	OBB-CAB-CBB	-2.32	114.95	120.17
14	aj	101	0V9	O3P-P-O2P	2.32	118.14	109.07
13	bm	101	V7N	C36-C18-C19	2.32	121.73	118.08
11	ae	101	BCL	CMD-C2D-C3D	2.32	129.02	124.68
13	bj	101	V7N	C36-C18-C19	2.32	121.73	118.08
11	AE	103	BCL	CMD-C2D-C3D	2.32	129.02	124.68
12	BW	1004	LMT	C1-O1'-C1'	2.32	117.69	113.84
11	AN	105	BCL	OBB-CAB-CBB	-2.32	114.95	120.17
12	BO	1003	LMT	C3'-C4'-C5'	-2.32	105.61	110.93
12	L	307	LMT	O5'-C1'-C2'	-2.32	105.44	110.35
13	bl	101	V7N	C36-C18-C17	-2.32	119.68	122.92
11	BP	1002	BCL	CMD-C2D-C3D	2.32	129.01	124.68
13	BB	101	V7N	C33-C5-C4	2.32	121.73	118.08
11	ao	102	BCL	C2A-C1A-CHA	2.32	127.91	123.86
11	AC	1001	BCL	CMD-C2D-C3D	2.32	129.01	124.68
11	AL	102	BCL	CMD-C2D-C3D	2.32	129.01	124.68
11	AN	103	BCL	CMD-C2D-C3D	2.31	129.01	124.68
11	BL	1005	BCL	CMD-C2D-C3D	2.31	129.01	124.68
11	BO	1005	BCL	C4B-C3B-CAB	-2.31	122.66	127.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	bn	101	V7N	C29-C28-C27	-2.31	116.00	123.22
13	AW	104	V7N	C33-C5-C4	2.31	121.72	118.08
12	BN	1002	LMT	C3'-C4'-C5'	-2.31	105.63	110.93
14	bi	103	0V9	O3P-P-O2P	2.31	118.09	109.07
11	BT	1002	BCL	C16-C15-C13	2.31	123.39	115.92
11	bl	104	BCL	C2A-C1A-CHA	2.31	127.90	123.86
11	BI	102	BCL	C4B-C3B-CAB	-2.31	122.67	127.13
11	BJ	1004	BCL	C4B-C3B-CAB	-2.31	122.67	127.13
11	BX	103	BCL	C2A-C1A-CHA	2.31	127.89	123.86
12	BK	1004	LMT	O5'-C5'-C6'	2.31	112.17	106.44
12	BV	1004	LMT	C3'-C4'-C5'	-2.31	105.64	110.93
11	BD	103	BCL	CMD-C2D-C3D	2.31	129.00	124.68
11	BR	102	BCL	CMD-C2D-C3D	2.31	129.00	124.68
13	BW	1001	V7N	C33-C5-C4	2.31	121.71	118.08
13	aj	103	V7N	C33-C5-C4	2.31	121.71	118.08
11	AM	101	BCL	CMD-C2D-C3D	2.31	128.99	124.68
11	AJ	102	BCL	CMD-C2D-C3D	2.30	128.99	124.68
11	bi	106	BCL	OBB-CAB-CBB	-2.30	114.98	120.17
21	L	309	BPH	CAC-C3C-C2C	-2.30	108.50	114.26
11	AJ	101	BCL	CMD-C2D-C3D	2.30	128.99	124.68
11	AD	102	BCL	CMD-C2D-C3D	2.30	128.99	124.68
11	bk	1002	BCL	C2A-C1A-CHA	2.30	127.89	123.86
11	BM	1004	BCL	O2A-C1-C2	-2.30	102.58	108.64
11	AL	103	BCL	CMD-C2D-C3D	2.30	128.99	124.68
13	ba	102	V7N	C15-C14-C13	-2.30	124.02	127.31
11	BK	1005	BCL	CMD-C2D-C3D	2.30	128.98	124.68
11	AV	101	BCL	CMD-C2D-C3D	2.30	128.98	124.68
13	bl	101	V7N	C36-C18-C19	2.30	121.70	118.08
11	AK	102	BCL	CMD-C2D-C3D	2.30	128.98	124.68
11	AS	102	BCL	C2A-C1A-CHA	2.30	127.88	123.86
11	AB	102	BCL	CMD-C2D-C3D	2.30	128.97	124.68
11	AS	102	BCL	CMD-C2D-C3D	2.30	128.97	124.68
11	BC	105	BCL	OBB-CAB-CBB	-2.30	115.00	120.17
11	AA	1002	BCL	CMD-C2D-C3D	2.30	128.97	124.68
11	AQ	102	BCL	CMD-C2D-C3D	2.29	128.97	124.68
11	bo	105	BCL	OBB-CAB-CBB	-2.29	115.01	120.17
11	bd	103	BCL	C2A-C1A-CHA	2.29	127.87	123.86
11	AH	102	BCL	OBB-CAB-CBB	-2.29	115.01	120.17
11	ba	103	BCL	OBB-CAB-CBB	-2.29	115.01	120.17
11	AB	102	BCL	CAA-CBA-CGA	2.29	119.95	113.25
11	BP	1002	BCL	CBA-CAA-C2A	2.29	120.63	113.86
11	BG	1003	BCL	CMD-C2D-C3D	2.29	128.97	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AI	101	BCL	CMD-C2D-C3D	2.29	128.96	124.68
12	BE	104	LMT	O5'-C5'-C4'	2.29	114.58	109.75
11	BF	102	BCL	CMD-C2D-C3D	2.29	128.96	124.68
13	BE	101	V7N	C15-C14-C13	-2.29	124.04	127.31
12	AT	102	LMT	O2'-C2'-C3'	-2.29	105.06	110.35
11	AN	105	BCL	C6-C5-C3	2.29	119.46	113.45
11	AE	102	BCL	OBB-CAB-CBB	-2.29	115.02	120.17
11	AX	101	BCL	CMD-C2D-C3D	2.29	128.96	124.68
11	AR	102	BCL	CMD-C2D-C3D	2.29	128.96	124.68
13	BL	1001	V7N	C38-C26-C27	-2.29	114.47	118.08
11	AG	101	BCL	CMD-C2D-C3D	2.29	128.96	124.68
11	ao	102	BCL	CMD-C2D-C3D	2.29	128.95	124.68
11	AB	103	BCL	CMD-C2D-C3D	2.28	128.95	124.68
11	AK	103	BCL	CMD-C2D-C3D	2.28	128.95	124.68
11	L	304	BCL	OBB-CAB-CBB	-2.28	115.03	120.17
11	BA	103	BCL	C4B-C3B-CAB	-2.28	122.72	127.13
25	ai	102	UYH	C12-C11-C10	-2.28	105.32	113.62
11	AV	102	BCL	CMD-C2D-C3D	2.28	128.95	124.68
11	AD	101	BCL	OBB-CAB-CBB	-2.28	115.03	120.17
13	bn	101	V7N	C16-C17-C18	-2.28	124.05	127.31
11	BX	103	BCL	OBB-CAB-CBB	-2.28	115.04	120.17
12	BB	102	LMT	O1'-C1'-C2'	2.28	111.86	108.30
13	BS	1001	V7N	C36-C18-C17	-2.28	119.73	122.92
11	BE	103	BCL	CMD-C2D-C3D	2.28	128.94	124.68
11	AV	102	BCL	OBB-CAB-CBB	-2.28	115.04	120.17
12	BT	1003	LMT	C3'-C4'-C5'	-2.28	105.70	110.93
11	AS	104	BCL	OBB-CAB-CBB	-2.28	115.04	120.17
11	AK	103	BCL	OBB-CAB-CBB	-2.28	115.04	120.17
13	BP	1001	V7N	C35-C13-C12	2.28	121.67	118.08
11	AU	102	BCL	CMD-C2D-C3D	2.28	128.94	124.68
12	bk	1001	LMT	C1'-O5'-C5'	-2.28	109.22	113.69
11	AO	101	BCL	CMD-C2D-C3D	2.28	128.94	124.68
11	AT	101	BCL	CMD-C2D-C3D	2.28	128.94	124.68
11	aa	1001	BCL	CMD-C2D-C3D	2.28	128.94	124.68
11	ad	102	BCL	CMD-C2D-C3D	2.28	128.94	124.68
11	BM	1004	BCL	OBB-CAB-CBB	-2.28	115.05	120.17
11	BM	1004	BCL	CMD-C2D-C3D	2.28	128.94	124.68
11	AN	105	BCL	C2A-C1A-CHA	2.27	127.84	123.86
11	AW	101	BCL	CMD-C2D-C3D	2.27	128.93	124.68
11	af	102	BCL	CMD-C2D-C3D	2.27	128.93	124.68
12	bi	101	LMT	O5'-C5'-C4'	2.27	114.55	109.75
11	BT	1002	BCL	OBB-CAB-CBB	-2.27	115.05	120.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AH	101	BCL	CMD-C2D-C3D	2.27	128.93	124.68
11	AS	104	BCL	C11-C12-C13	-2.27	108.57	115.92
11	BK	1005	BCL	OBB-CAB-CBB	-2.27	115.05	120.17
11	AD	101	BCL	CMD-C2D-C3D	2.27	128.93	124.68
11	AE	102	BCL	CMD-C2D-C3D	2.27	128.93	124.68
11	ah	1001	BCL	CMD-C2D-C3D	2.27	128.93	124.68
11	AM	102	BCL	CMD-C2D-C3D	2.27	128.93	124.68
11	bf	103	BCL	OBB-CAB-CBB	-2.27	115.06	120.17
13	ba	102	V7N	C29-C28-C27	-2.27	116.14	123.22
11	AJ	101	BCL	C4B-C3B-CAB	-2.27	122.75	127.13
11	M	403	BCL	CMD-C2D-C3D	2.27	128.92	124.68
13	BO	1001	V7N	C36-C18-C17	-2.27	119.75	122.92
11	AU	101	BCL	CMD-C2D-C3D	2.27	128.92	124.68
11	L	304	BCL	CMD-C2D-C3D	2.27	128.92	124.68
12	M	408	LMT	C1-O1'-C1'	2.27	117.60	113.84
12	BX	102	LMT	C3'-C4'-C5'	-2.27	105.73	110.93
13	BL	1001	V7N	C36-C18-C17	-2.27	119.75	122.92
11	AA	1001	BCL	CMD-C2D-C3D	2.27	128.92	124.68
11	bk	1002	BCL	OBB-CAB-CBB	-2.26	115.07	120.17
11	AQ	101	BCL	CMD-C2D-C3D	2.26	128.91	124.68
11	bn	104	BCL	OBB-CAB-CBB	-2.26	115.08	120.17
11	bm	103	BCL	C2A-C1A-CHA	2.26	127.82	123.86
12	be	101	LMT	O1'-C1'-C2'	2.26	111.84	108.30
11	BB	105	BCL	CMD-C2D-C3D	2.26	128.91	124.68
11	AG	102	BCL	CMD-C2D-C3D	2.26	128.91	124.68
11	AN	102	BCL	CMD-C2D-C3D	2.26	128.91	124.68
11	BV	1002	BCL	CMD-C2D-C3D	2.26	128.91	124.68
11	bm	103	BCL	OBB-CAB-CBB	-2.26	115.08	120.17
12	BW	1004	LMT	C1'-O5'-C5'	-2.26	109.25	113.69
11	BV	1002	BCL	OBB-CAB-CBB	-2.26	115.08	120.17
13	BJ	1001	V7N	C33-C5-C4	2.26	121.64	118.08
14	bo	104	OV9	O2-C10-O4	-2.26	118.24	123.70
11	bj	104	BCL	OBB-CAB-CBB	-2.26	115.08	120.17
11	bi	106	BCL	C2A-C1A-CHA	2.26	127.81	123.86
11	AD	101	BCL	C2A-C1A-CHA	2.26	127.81	123.86
13	BL	1001	V7N	C33-C5-C4	2.26	121.64	118.08
11	bb	103	BCL	C2A-C1A-CHA	2.26	127.81	123.86
12	BP	1005	LMT	O1'-C1'-C2'	2.26	111.83	108.30
11	ab	101	BCL	CMD-C2D-C3D	2.26	128.90	124.68
12	BU	1003	LMT	O1'-C1'-C2'	2.26	111.83	108.30
13	aj	103	V7N	C16-C17-C18	-2.26	124.09	127.31
11	bf	103	BCL	C1-C2-C3	-2.25	122.14	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BE	103	BCL	C1-O2A-CGA	2.25	122.36	116.44
11	bg	1002	BCL	OBB-CAB-CBB	-2.25	115.10	120.17
13	bp	101	V7N	C35-C13-C12	2.25	121.63	118.08
11	bm	103	BCL	C1C-NC-C4C	2.25	107.72	106.71
11	ai	101	BCL	CMD-C2D-C3D	2.25	128.89	124.68
12	BB	104	LMT	C3'-C4'-C5'	-2.25	105.77	110.93
11	bl	104	BCL	OBB-CAB-CBB	-2.25	115.11	120.17
12	BM	1005	LMT	C1'-O5'-C5'	-2.25	109.27	113.69
11	ag	102	BCL	CMD-C2D-C3D	2.25	128.88	124.68
21	M	404	BPH	CMD-C2D-C3D	2.25	128.88	124.68
11	BA	103	BCL	C2A-C1A-CHA	2.25	127.79	123.86
11	AV	104	BCL	CMD-C2D-C3D	2.25	128.88	124.68
14	AJ	104	0V9	O3-C30-O5	-2.25	117.92	123.59
11	ab	101	BCL	C16-C15-C13	2.25	123.18	115.92
18	M	402	CD4	C28-C15-C16	-2.25	106.48	111.79
11	AV	104	BCL	C4B-C3B-CAB	-2.24	122.79	127.13
18	ae	102	CD4	C37-C36-C35	-2.24	105.46	113.62
11	BQ	1002	BCL	CMD-C2D-C3D	2.24	128.88	124.68
21	L	309	BPH	CMD-C2D-C3D	2.24	128.88	124.68
11	AH	102	BCL	CMD-C2D-C3D	2.24	128.87	124.68
11	BK	1005	BCL	C4B-C3B-CAB	-2.24	122.80	127.13
14	AJ	104	0V9	O3P-P-O2P	2.24	117.82	109.07
14	bf	104	0V9	O3P-P-O2P	2.24	117.82	109.07
11	AG	102	BCL	OBB-CAB-CBB	-2.24	115.13	120.17
12	bb	105	LMT	C1-O1'-C1'	2.24	117.56	113.84
11	M	406	BCL	C1C-NC-C4C	2.24	107.71	106.71
11	BM	1004	BCL	C4B-C3B-CAB	-2.24	122.80	127.13
11	bd	103	BCL	OBB-CAB-CBB	-2.24	115.13	120.17
11	BS	1006	BCL	CMD-C2D-C3D	2.24	128.86	124.68
12	BG	1004	LMT	O1'-C1'-C2'	2.24	111.80	108.30
11	AR	101	BCL	CMD-C2D-C3D	2.24	128.86	124.68
11	AV	104	BCL	C2A-C1A-CHA	2.23	127.77	123.86
11	BQ	1002	BCL	CBA-CAA-C2A	2.23	120.46	113.86
11	ac	1002	BCL	CMD-C2D-C3D	2.23	128.86	124.68
11	al	1001	BCL	CMD-C2D-C3D	2.23	128.86	124.68
13	bh	101	V7N	C36-C18-C19	2.23	121.59	118.08
11	BS	1006	BCL	C2A-C1A-CHA	2.23	127.76	123.86
11	aj	102	BCL	CMD-C2D-C3D	2.23	128.85	124.68
11	BS	1006	BCL	OBB-CAB-CBB	-2.23	115.15	120.17
13	bf	101	V7N	C36-C18-C19	2.23	121.59	118.08
13	bc	101	V7N	C36-C18-C19	2.23	121.59	118.08
11	AS	102	BCL	OBB-CAB-CBB	-2.23	115.15	120.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	AA	1003	LMT	O1'-C1'-C2'	2.23	111.78	108.30
12	BT	1003	LMT	O5B-C5B-C4B	2.23	113.74	109.69
11	AS	104	BCL	CMD-C2D-C3D	2.23	128.84	124.68
12	be	101	LMT	O5'-C1'-C2'	-2.23	105.64	110.35
11	BI	102	BCL	OBB-CAB-CBB	-2.23	115.16	120.17
11	BG	1003	BCL	OBB-CAB-CBB	-2.23	115.16	120.17
13	aj	103	V7N	C38-C26-C27	-2.23	114.57	118.08
11	AI	101	BCL	CAA-CBA-CGA	2.22	119.75	113.25
11	BG	1003	BCL	CBA-CAA-C2A	2.22	120.43	113.86
11	BL	1005	BCL	OBB-CAB-CBB	-2.22	115.17	120.17
11	M	406	BCL	CMD-C2D-C3D	2.22	128.84	124.68
11	AP	102	BCL	C1-C2-C3	2.22	129.89	126.04
12	BI	101	LMT	C3'-C4'-C5'	-2.22	105.83	110.93
11	be	105	BCL	C2A-C1A-CHA	2.22	127.74	123.86
11	am	1001	BCL	CMD-C2D-C3D	2.22	128.83	124.68
14	bc	103	0V9	O3P-P-O2P	2.22	117.74	109.07
21	M	404	BPH	CMB-C2B-C3B	2.22	128.83	124.68
13	AE	101	V7N	C36-C18-C17	-2.22	119.81	122.92
11	BF	102	BCL	C2A-C1A-CHA	2.22	127.74	123.86
11	AA	1002	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
11	BH	1004	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
13	BN	1001	V7N	C36-C18-C17	-2.22	119.82	122.92
11	BR	102	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
11	BA	103	BCL	OBB-CAB-CBB	-2.22	115.18	120.17
11	AH	102	BCL	C4A-NA-C1A	2.21	107.70	106.71
13	BL	1001	V7N	C35-C13-C12	2.21	121.56	118.08
13	BG	1001	V7N	C35-C13-C12	2.21	121.56	118.08
12	BK	1003	LMT	C1-O1'-C1'	2.21	117.51	113.84
11	BH	1004	BCL	C1-O2A-CGA	2.21	122.24	116.44
11	BW	1002	BCL	C2A-C1A-CHA	2.21	127.72	123.86
13	AT	103	V7N	C33-C5-C4	2.21	121.56	118.08
11	BS	1006	BCL	C4B-C3B-CAB	-2.21	122.86	127.13
11	bb	103	BCL	C1C-NC-C4C	2.21	107.70	106.71
11	BU	1001	BCL	C4B-C3B-CAB	-2.21	122.86	127.13
21	M	404	BPH	C1-C2-C3	2.21	129.86	126.04
11	am	1001	BCL	C2A-C1A-CHA	2.21	127.72	123.86
11	AL	103	BCL	C1C-NC-C4C	2.20	107.70	106.71
13	ba	102	V7N	C35-C13-C12	2.20	121.55	118.08
12	BU	1002	LMT	C3'-C4'-C5'	-2.20	105.88	110.93
11	an	1001	BCL	CMD-C2D-C3D	2.20	128.80	124.68
12	bj	102	LMT	C3'-C4'-C5'	-2.20	105.88	110.93
11	BD	103	BCL	OBB-CAB-CBB	-2.20	115.22	120.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	bh	102	BCL	C2A-C1A-CHA	2.20	127.71	123.86
11	AF	101	BCL	CMD-C2D-C3D	2.20	128.79	124.68
11	be	105	BCL	OBB-CAB-CBB	-2.20	115.22	120.17
11	bp	104	BCL	C1C-NC-C4C	2.20	107.69	106.71
11	BP	1002	BCL	OBB-CAB-CBB	-2.20	115.22	120.17
13	bd	101	V7N	C36-C18-C19	2.20	121.54	118.08
11	BQ	1002	BCL	OBB-CAB-CBB	-2.20	115.23	120.17
11	BE	103	BCL	OBB-CAB-CBB	-2.19	115.23	120.17
17	C	406	V75	C3-O3-C3A	-2.19	114.32	117.72
12	BO	1004	LMT	C3'-C4'-C5'	-2.19	105.89	110.93
13	AB	101	V7N	C28-C27-C26	-2.19	120.25	126.42
14	bk	1003	0V9	O3P-P-O2P	2.19	117.63	109.07
15	C	403	HEC	C1D-C2D-C3D	-2.19	105.47	107.00
11	AN	105	BCL	CBA-CAA-C2A	2.19	120.33	113.86
14	bp	103	0V9	O2-C10-O4	-2.19	118.41	123.70
11	BF	102	BCL	OBB-CAB-CBB	-2.19	115.24	120.17
11	AL	103	BCL	CBA-CAA-C2A	2.19	120.33	113.86
11	BN	1004	BCL	CBA-CAA-C2A	2.19	120.32	113.86
14	be	104	0V9	O3P-P-O2P	2.19	117.62	109.07
13	BW	1001	V7N	C36-C18-C17	-2.19	119.86	122.92
12	BC	102	LMT	C3'-C4'-C5'	-2.19	105.91	110.93
13	AE	105	V7N	C33-C5-C4	2.19	121.52	118.08
11	BJ	1004	BCL	OBB-CAB-CBB	-2.19	115.25	120.17
11	bd	103	BCL	C1C-NC-C4C	2.18	107.69	106.71
14	bn	102	0V9	O3P-P-O2P	2.18	117.60	109.07
15	C	404	HEC	CAD-CBD-CGD	-2.18	107.64	113.76
11	BW	1002	BCL	OBB-CAB-CBB	-2.18	115.26	120.17
11	bk	1002	BCL	C1-O2A-CGA	2.18	122.17	116.44
11	aj	102	BCL	C2A-C1A-CHA	2.18	127.67	123.86
13	BT	1001	V7N	C36-C18-C17	-2.18	119.87	122.92
13	BV	1001	V7N	C33-C5-C4	2.18	121.51	118.08
11	bg	1002	BCL	C2A-C1A-CHA	2.18	127.67	123.86
13	BB	101	V7N	C15-C14-C13	-2.18	124.20	127.31
12	AK	101	LMT	O5'-C1'-O1'	-2.18	104.82	109.97
14	bm	104	0V9	O3P-P-O2P	2.18	117.57	109.07
14	bp	103	0V9	O3-C30-O5	-2.17	118.10	123.59
11	AH	102	BCL	C11-C10-C8	2.17	122.95	115.92
11	bb	103	BCL	OBB-CAB-CBB	-2.17	115.28	120.17
11	bk	1002	BCL	C1C-NC-C4C	2.17	107.68	106.71
13	bn	101	V7N	C33-C5-C4	2.17	121.50	118.08
13	bm	101	V7N	C33-C5-C4	2.17	121.50	118.08
11	BO	1005	BCL	OBB-CAB-CBB	-2.17	115.28	120.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	M	402	CD4	C15-O2-C14	2.17	123.14	117.79
12	BP	1005	LMT	O5'-C5'-C4'	2.17	114.33	109.75
11	L	304	BCL	C1C-NC-C4C	2.17	107.68	106.71
20	M	407	MQ8	C11-C3-C4	-2.17	116.18	118.50
11	ao	102	BCL	C4B-C3B-CAB	-2.17	122.94	127.13
14	AQ	105	0V9	O3P-P-O2P	2.17	117.54	109.07
14	bb	102	0V9	O2-C10-O4	-2.17	118.47	123.70
12	AN	104	LMT	C3'-C4'-C5'	-2.17	105.96	110.93
13	bp	101	V7N	C36-C18-C19	2.17	121.49	118.08
11	BK	1005	BCL	C2A-C1A-CHA	2.16	127.64	123.86
13	BV	1001	V7N	C36-C18-C19	2.16	121.49	118.08
11	AB	105	BCL	CAD-C3D-C4D	-2.16	107.26	108.47
13	AE	105	V7N	C35-C13-C12	2.16	121.48	118.08
11	BB	105	BCL	C4B-C3B-CAB	-2.16	122.95	127.13
13	AE	105	V7N	C36-C18-C17	-2.16	119.89	122.92
11	bj	104	BCL	C2A-C1A-CHA	2.16	127.63	123.86
14	L	310	0V9	O3P-P-O2P	2.16	117.50	109.07
11	AL	103	BCL	OBB-CAB-CBB	-2.16	115.31	120.17
11	BR	102	BCL	C4B-C3B-CAB	-2.16	122.96	127.13
11	BU	1001	BCL	OBB-CAB-CBB	-2.16	115.31	120.17
13	af	103	V7N	C38-C26-C27	-2.16	114.68	118.08
12	bc	102	LMT	C1'-O5'-C5'	-2.16	109.45	113.69
11	AG	102	BCL	CBA-CAA-C2A	2.16	120.23	113.86
11	BP	1002	BCL	C4B-C3B-CAB	-2.15	122.97	127.13
13	AB	101	V7N	C38-C26-C27	-2.15	114.68	118.08
11	bi	106	BCL	C1C-NC-C4C	2.15	107.67	106.71
12	BH	1005	LMT	O5'-C1'-C2'	-2.15	105.79	110.35
11	BF	102	BCL	C4B-C3B-CAB	-2.15	122.97	127.13
12	BB	102	LMT	C3'-C4'-C5'	-2.15	105.99	110.93
13	BQ	1001	V7N	C33-C5-C4	2.15	121.47	118.08
14	bi	105	0V9	O3P-P-O2P	2.15	117.47	109.07
13	BG	1001	V7N	C36-C18-C17	-2.15	119.92	122.92
13	bb	101	V7N	C36-C18-C19	2.15	121.46	118.08
12	bi	104	LMT	C1'-O5'-C5'	-2.15	109.47	113.69
13	AW	104	V7N	C38-C26-C27	-2.14	114.70	118.08
11	bj	104	BCL	C1C-NC-C4C	2.14	107.67	106.71
11	AU	101	BCL	C4B-C3B-CAB	-2.14	122.99	127.13
14	L	310	0V9	O3-C30-O5	-2.14	118.19	123.59
12	BC	103	LMT	C3'-C4'-C5'	-2.14	106.02	110.93
11	bo	105	BCL	C4B-C3B-CAB	-2.14	122.99	127.13
25	ai	102	UYH	O6-C1-O1	-2.14	104.90	109.97
14	bb	104	0V9	O3-C30-O5	-2.14	118.19	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	bm	102	LMT	C1-O1'-C1'	2.14	117.39	113.84
11	AR	101	BCL	C1C-NC-C4C	2.14	107.67	106.71
11	bn	104	BCL	C1C-NC-C4C	2.14	107.67	106.71
11	BG	1003	BCL	C4B-C3B-CAB	-2.14	123.00	127.13
11	ap	1001	BCL	O2A-C1-C2	-2.14	103.02	108.64
11	bb	103	BCL	O2A-C1-C2	-2.13	103.03	108.64
11	bf	103	BCL	C4B-C3B-CAB	-2.13	123.01	127.13
13	BT	1001	V7N	C35-C13-C12	2.13	121.44	118.08
11	BH	1004	BCL	C4B-C3B-CAB	-2.13	123.01	127.13
11	AN	102	BCL	C4B-C3B-CAB	-2.13	123.02	127.13
11	AV	102	BCL	C4B-C3B-CAB	-2.13	123.02	127.13
14	bl	103	0V9	O3P-P-O2P	2.13	117.38	109.07
11	bo	105	BCL	C2A-C1A-CHA	2.13	127.58	123.86
11	an	1001	BCL	C4B-C3B-CAB	-2.12	123.02	127.13
18	ad	101	CD4	C31-C30-C29	-2.12	106.54	112.79
11	bk	1002	BCL	O2A-C1-C2	-2.12	103.05	108.64
11	bh	102	BCL	C1C-NC-C4C	2.12	107.66	106.71
12	bf	102	LMT	C1-O1'-C1'	2.12	117.36	113.84
12	ba	101	LMT	O5B-C5B-C4B	2.12	113.55	109.69
11	bd	103	BCL	C4B-C3B-CAB	-2.12	123.03	127.13
11	be	105	BCL	C4B-C3B-CAB	-2.12	123.03	127.13
12	BI	104	LMT	C3'-C4'-C5'	-2.12	106.07	110.93
11	AJ	101	BCL	CBA-CAA-C2A	2.12	120.11	113.86
11	BV	1002	BCL	C4B-C3B-CAB	-2.12	123.04	127.13
18	ad	101	CD4	O2-C15-C28	2.12	116.06	108.40
11	AE	102	BCL	C1C-NC-C4C	2.12	107.66	106.71
11	bc	104	BCL	C4B-C3B-CAB	-2.11	123.04	127.13
11	BT	1002	BCL	C4B-C3B-CAB	-2.11	123.05	127.13
11	L	303	BCL	C1-O2A-CGA	2.11	121.99	116.44
24	af	101	V7B	C3-C4-C5	-2.11	106.08	110.93
11	bg	1002	BCL	C1C-NC-C4C	2.11	107.66	106.71
11	bg	1002	BCL	C6-C5-C3	2.11	118.99	113.45
14	bl	103	0V9	O1P-P-O4P	-2.11	97.94	107.75
13	BK	1001	V7N	C15-C14-C13	-2.11	124.30	127.31
13	bd	101	V7N	C38-C26-C27	-2.11	114.75	118.08
12	AM	103	LMT	O1'-C1'-C2'	2.11	111.59	108.30
12	BX	101	LMT	O1'-C1'-C2'	2.11	111.59	108.30
13	BM	1001	V7N	C1-C2-C3	2.11	118.64	113.06
12	ac	1001	LMT	C1'-O5'-C5'	-2.11	109.55	113.69
13	AH	104	V7N	C29-C28-C27	-2.10	116.65	123.22
13	AH	104	V7N	C35-C13-C12	2.10	121.39	118.08
11	AP	101	BCL	C6-C5-C3	2.10	118.97	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BJ	1002	LMT	C3'-C4'-C5'	-2.10	106.11	110.93
13	bd	101	V7N	C1-C2-C3	2.10	118.63	113.06
12	AN	101	LMT	C1'-O5'-C5'	-2.10	109.56	113.69
11	BQ	1002	BCL	C4B-C3B-CAB	-2.10	123.07	127.13
12	BI	104	LMT	C1-O1'-C1'	2.10	117.32	113.84
16	C1	301	NDG	O4-C4-C3	-2.10	105.50	110.35
12	BV	1004	LMT	O1'-C1'-C2'	2.10	111.58	108.30
11	BE	103	BCL	C4B-C3B-CAB	-2.10	123.08	127.13
11	ba	103	BCL	C1C-NC-C4C	2.10	107.65	106.71
13	bo	102	V7N	C36-C18-C19	2.10	121.38	118.08
11	bc	104	BCL	C1C-NC-C4C	2.10	107.65	106.71
11	bn	104	BCL	C2A-C1A-CHA	2.09	127.52	123.86
12	BG	1005	LMT	C3'-C4'-C5'	-2.09	106.14	110.93
21	L	309	BPH	CAC-C3C-C4C	2.09	118.40	113.73
12	BV	1004	LMT	C1'-O5'-C5'	-2.09	109.59	113.69
11	am	1001	BCL	C4B-C3B-CAB	-2.09	123.10	127.13
12	AK	101	LMT	O1'-C1'-C2'	2.08	111.56	108.30
12	BD	105	LMT	O1'-C1'-C2'	2.08	111.56	108.30
11	AS	102	BCL	C4B-C3B-CAB	-2.08	123.10	127.13
11	be	105	BCL	C1C-NC-C4C	2.08	107.64	106.71
15	C	401	HEC	C1D-C2D-C3D	-2.08	105.55	107.00
11	AH	102	BCL	C4B-C3B-CAB	-2.08	123.11	127.13
12	BA	105	LMT	C3B-C4B-C5B	-2.08	106.52	110.24
12	L	306	LMT	C3'-C4'-C5'	-2.08	106.15	110.93
11	BN	1004	BCL	C4B-C3B-CAB	-2.08	123.11	127.13
12	BK	1002	LMT	C1'-O5'-C5'	-2.08	109.60	113.69
12	bo	103	LMT	C1'-O5'-C5'	-2.08	109.60	113.69
14	bf	104	0V9	C2-O2-C10	2.08	122.91	117.79
11	AS	102	BCL	C1C-NC-C4C	2.08	107.64	106.71
18	M	409	CD4	C33-O16-C46	2.08	122.91	117.79
13	AQ	104	V7N	C35-C13-C12	2.08	121.35	118.08
13	BQ	1001	V7N	C23-C24-C25	2.08	118.71	111.88
12	bp	102	LMT	C1'-O5'-C5'	-2.08	109.61	113.69
14	bm	104	0V9	O3-C30-O5	-2.08	118.35	123.59
11	AG	102	BCL	C4B-C3B-CAB	-2.08	123.12	127.13
11	AP	102	BCL	C6-C5-C3	2.08	118.90	113.45
12	AR	103	LMT	O5'-C5'-C4'	2.08	114.13	109.75
11	M	406	BCL	OBB-CAB-CBB	-2.08	115.50	120.17
11	AF	101	BCL	C4B-C3B-CAB	-2.07	123.12	127.13
11	BW	1002	BCL	C4B-C3B-CAB	-2.07	123.12	127.13
11	AH	102	BCL	C6-C5-C3	2.07	118.89	113.45
13	AW	104	V7N	C15-C14-C13	-2.07	124.35	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BI	103	LMT	C3'-C4'-C5'	-2.07	106.18	110.93
13	bl	101	V7N	C38-C26-C27	-2.07	114.82	118.08
12	BF	101	LMT	C3'-C4'-C5'	-2.07	106.18	110.93
12	BG	1004	LMT	C1'-O5'-C5'	-2.07	109.63	113.69
24	ag	103	V7B	O1-C1-C2	2.07	111.53	108.30
21	L	309	BPH	CBC-CAC-C3C	2.07	117.93	113.77
13	bl	101	V7N	C3-C4-C5	2.06	129.01	125.89
11	BO	1005	BCL	C2A-C1A-CHA	2.06	127.47	123.86
13	BQ	1001	V7N	C16-C17-C18	-2.06	124.36	127.31
11	AW	103	BCL	C4B-C3B-CAB	-2.06	123.14	127.13
12	BV	1003	LMT	O5B-C5B-C4B	2.06	113.44	109.69
11	ac	1002	BCL	C4B-C3B-CAB	-2.06	123.15	127.13
14	bp	103	0V9	O3P-P-O2P	2.06	117.12	109.07
12	BS	1002	LMT	C3'-C4'-C5'	-2.06	106.20	110.93
12	bn	103	LMT	C3B-C4B-C5B	-2.06	106.56	110.24
11	AA	1002	BCL	C4B-C3B-CAB	-2.06	123.15	127.13
12	BD	101	LMT	O5'-C1'-C2'	-2.06	105.99	110.35
13	bp	101	V7N	C15-C14-C13	-2.06	124.37	127.31
11	bk	1002	BCL	C4B-C3B-CAB	-2.06	123.16	127.13
18	ag	101	CD4	O2-C14-O1	-2.06	118.73	123.70
11	AB	102	BCL	C4B-C3B-CAB	-2.06	123.16	127.13
11	AM	101	BCL	C4B-C3B-CAB	-2.05	123.16	127.13
12	BS	1004	LMT	C3'-C4'-C5'	-2.05	106.22	110.93
13	ba	102	V7N	C7-C6-C5	-2.05	124.38	127.31
11	AE	102	BCL	C4B-C3B-CAB	-2.05	123.17	127.13
11	bo	105	BCL	C1C-NC-C4C	2.05	107.63	106.71
11	bf	103	BCL	C1C-NC-C4C	2.05	107.63	106.71
11	L	303	BCL	OBB-CAB-CBB	-2.05	115.56	120.17
23	M	405	CRT	C31-C32-C33	-2.05	124.39	127.31
12	L	307	LMT	C1'-O5'-C5'	-2.04	109.68	113.69
14	bj	103	0V9	O3-C30-O5	-2.04	118.44	123.59
11	bp	104	BCL	C4B-C3B-CAB	-2.04	123.18	127.13
15	C	401	HEC	CBD-CAD-C3D	-2.04	109.14	112.62
12	AR	103	LMT	O5'-C1'-C2'	-2.04	106.03	110.35
12	BU	1003	LMT	C3'-C4'-C5'	-2.04	106.25	110.93
19	H1	1003	PGW	O03-C19-C20	2.04	118.31	111.91
11	bh	102	BCL	C4B-C3B-CAB	-2.04	123.19	127.13
12	BP	1005	LMT	C1'-C2'-C3'	-2.04	105.75	110.00
12	BT	1003	LMT	O1'-C1'-C2'	2.03	111.48	108.30
23	M	405	CRT	C36-C35-C33	2.03	128.97	125.89
14	bf	104	0V9	O3-C30-O5	-2.03	118.46	123.59
14	bj	103	0V9	O3P-P-O2P	2.03	117.01	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BQ	1001	V7N	O45-C40-C39	2.03	127.47	122.11
13	bi	102	V7N	C36-C18-C19	2.03	121.28	118.08
13	bp	101	V7N	C38-C26-C27	-2.03	114.88	118.08
11	AR	101	BCL	C4B-C3B-CAB	-2.03	123.21	127.13
11	AB	105	BCL	C4B-C3B-CAB	-2.03	123.21	127.13
11	AS	104	BCL	C4B-C3B-CAB	-2.03	123.21	127.13
11	bi	106	BCL	C4B-C3B-CAB	-2.03	123.21	127.13
12	AG	103	LMT	C1'-O5'-C5'	-2.03	109.71	113.69
12	bn	103	LMT	O1'-C1'-C2'	2.03	111.47	108.30
12	BN	1005	LMT	C1-O1'-C1'	2.03	117.20	113.84
12	BS	1004	LMT	C1'-O5'-C5'	-2.02	109.72	113.69
11	AI	101	BCL	C4B-C3B-CAB	-2.02	123.22	127.13
11	ai	101	BCL	C4B-C3B-CAB	-2.02	123.22	127.13
18	ae	102	CD4	O4-C17-C18	-2.02	115.84	123.73
11	bm	103	BCL	C4B-C3B-CAB	-2.02	123.22	127.13
11	AL	103	BCL	C4B-C3B-CAB	-2.02	123.22	127.13
11	bj	104	BCL	C4B-C3B-CAB	-2.02	123.22	127.13
11	bn	104	BCL	C4B-C3B-CAB	-2.02	123.22	127.13
18	M	409	CD4	C12-C13-C14	-2.02	106.27	113.62
13	AW	104	V7N	C29-C28-C27	-2.02	116.92	123.22
11	AW	103	BCL	CMD-C2D-C3D	2.02	128.46	124.68
11	AP	101	BCL	C4B-C3B-CAB	-2.02	123.23	127.13
12	ac	1001	LMT	C3'-C4'-C5'	-2.02	106.30	110.93
12	BV	1005	LMT	C1'-O5'-C5'	-2.02	109.73	113.69
12	BK	1002	LMT	C3'-C4'-C5'	-2.02	106.30	110.93
13	BE	101	V7N	O45-C40-C39	2.02	127.43	122.11
12	bi	101	LMT	C2'-C3'-C4'	2.01	114.28	109.68
11	AU	101	BCL	C1-C2-C3	2.01	129.52	126.04
12	L	308	LMT	O5B-C5B-C4B	2.01	113.35	109.69
12	AN	101	LMT	O1'-C1'-C2'	2.01	111.44	108.30
14	bi	105	OV9	O1P-P-O4P	-2.01	98.41	107.75
11	AS	101	BCL	C6-C5-C3	2.01	118.72	113.45
12	BR	103	LMT	O5B-C5B-C4B	2.01	113.34	109.69
13	BS	1001	V7N	O45-C40-C39	2.01	127.41	122.11
12	BC	103	LMT	C1-O1'-C1'	2.00	117.16	113.84
14	bo	104	OV9	O3P-P-O2P	2.00	116.90	109.07
11	M	403	BCL	C4B-C3B-CAB	-2.00	123.26	127.13

There are no chirality outliers.

All (1868) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
11	AD	101	BCL	C3A-C2A-CAA-CBA
11	AE	102	BCL	C3A-C2A-CAA-CBA
11	AF	101	BCL	C1A-C2A-CAA-CBA
11	AG	102	BCL	CHA-CBD-CGD-O1D
11	AH	102	BCL	C3A-C2A-CAA-CBA
11	AI	101	BCL	C1A-C2A-CAA-CBA
11	AI	101	BCL	C3A-C2A-CAA-CBA
11	AI	101	BCL	CHA-CBD-CGD-O1D
11	AI	101	BCL	CHA-CBD-CGD-O2D
11	AJ	101	BCL	C1A-C2A-CAA-CBA
11	AJ	101	BCL	C3A-C2A-CAA-CBA
11	AK	103	BCL	C3A-C2A-CAA-CBA
11	AL	103	BCL	C1A-C2A-CAA-CBA
11	AL	103	BCL	CHA-CBD-CGD-O1D
11	AL	103	BCL	CHA-CBD-CGD-O2D
11	AM	101	BCL	C1A-C2A-CAA-CBA
11	AM	101	BCL	C3A-C2A-CAA-CBA
11	AM	101	BCL	CHA-CBD-CGD-O1D
11	AN	103	BCL	C2-C3-C5-C6
11	AN	103	BCL	C4-C3-C5-C6
11	AQ	101	BCL	C1A-C2A-CAA-CBA
11	AQ	101	BCL	C3A-C2A-CAA-CBA
11	AR	101	BCL	C3A-C2A-CAA-CBA
11	AR	101	BCL	CHA-CBD-CGD-O1D
11	AR	101	BCL	CHA-CBD-CGD-O2D
11	AS	102	BCL	C3A-C2A-CAA-CBA
11	AS	102	BCL	C2C-C3C-CAC-CBC
11	AS	104	BCL	C3A-C2A-CAA-CBA
11	AU	101	BCL	CHA-CBD-CGD-O1D
11	AU	101	BCL	CHA-CBD-CGD-O2D
11	AV	104	BCL	C1A-C2A-CAA-CBA
11	AV	104	BCL	C3A-C2A-CAA-CBA
11	AW	103	BCL	C1A-C2A-CAA-CBA
11	AW	103	BCL	C3A-C2A-CAA-CBA
11	AW	103	BCL	CHA-CBD-CGD-O1D
11	AW	103	BCL	CHA-CBD-CGD-O2D
11	BA	103	BCL	C1A-C2A-CAA-CBA
11	BA	103	BCL	C3A-C2A-CAA-CBA
11	BD	103	BCL	CHA-CBD-CGD-O1D
11	BD	103	BCL	CHA-CBD-CGD-O2D
11	BL	1005	BCL	C1A-C2A-CAA-CBA
11	BM	1004	BCL	CHA-CBD-CGD-O1D
11	BM	1004	BCL	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
11	BN	1004	BCL	O2A-C1-C2-C3
11	BO	1005	BCL	C1A-C2A-CAA-CBA
11	BO	1005	BCL	C3A-C2A-CAA-CBA
11	BU	1001	BCL	C1A-C2A-CAA-CBA
11	BU	1001	BCL	C3A-C2A-CAA-CBA
11	BW	1002	BCL	C1A-C2A-CAA-CBA
11	BX	103	BCL	C1A-C2A-CAA-CBA
11	BX	103	BCL	C3A-C2A-CAA-CBA
11	ae	101	BCL	C6-C7-C8-C9
11	bc	104	BCL	C3A-C2A-CAA-CBA
11	bd	103	BCL	O2A-C1-C2-C3
11	bf	103	BCL	C1A-C2A-CAA-CBA
11	bf	103	BCL	C3A-C2A-CAA-CBA
11	bk	1002	BCL	C1A-C2A-CAA-CBA
11	bk	1002	BCL	C3A-C2A-CAA-CBA
11	bn	104	BCL	C1A-C2A-CAA-CBA
11	bp	104	BCL	C1A-C2A-CAA-CBA
11	bp	104	BCL	C3A-C2A-CAA-CBA
12	AA	1003	LMT	C2'-C1'-O1'-C1
12	AA	1003	LMT	O5'-C1'-O1'-C1
12	AG	103	LMT	C2'-C1'-O1'-C1
12	AG	103	LMT	O5'-C1'-O1'-C1
12	AK	101	LMT	O5'-C1'-O1'-C1
12	AK	101	LMT	C2-C1-O1'-C1'
12	AL	104	LMT	C2-C1-O1'-C1'
12	AS	103	LMT	C2'-C1'-O1'-C1
12	AS	103	LMT	O5'-C1'-O1'-C1
12	AT	102	LMT	O5'-C1'-O1'-C1
12	AT	104	LMT	C2'-C1'-O1'-C1
12	AT	104	LMT	O5'-C1'-O1'-C1
12	BA	102	LMT	C2'-C1'-O1'-C1
12	BA	102	LMT	O5'-C1'-O1'-C1
12	BD	101	LMT	C2'-C1'-O1'-C1
12	BD	101	LMT	O5'-C1'-O1'-C1
12	BF	104	LMT	O5'-C1'-O1'-C1
12	BG	1002	LMT	O5'-C1'-O1'-C1
12	BG	1002	LMT	C2-C1-O1'-C1'
12	BI	105	LMT	C2-C1-O1'-C1'
12	BN	1005	LMT	C2-C1-O1'-C1'
12	BP	1003	LMT	C2-C1-O1'-C1'
12	BR	103	LMT	C2'-C1'-O1'-C1
12	BR	103	LMT	O5'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
12	BT	1003	LMT	O5'-C1'-O1'-C1
12	BU	1002	LMT	C2'-C1'-O1'-C1
12	BU	1002	LMT	O5'-C1'-O1'-C1
12	BU	1004	LMT	O5'-C1'-O1'-C1
12	BU	1004	LMT	C2-C1-O1'-C1'
12	BV	1003	LMT	C2-C1-O1'-C1'
12	bb	105	LMT	C2-C1-O1'-C1'
12	bd	102	LMT	C2'-C1'-O1'-C1
12	bd	102	LMT	O5'-C1'-O1'-C1
12	bd	102	LMT	C2-C1-O1'-C1'
12	bl	102	LMT	C2'-C1'-O1'-C1
12	bl	102	LMT	O5'-C1'-O1'-C1
12	bn	103	LMT	C2'-C1'-O1'-C1
12	bn	103	LMT	O5'-C1'-O1'-C1
12	bn	103	LMT	C2-C1-O1'-C1'
13	AB	101	V7N	C27-C28-C29-C39
13	AE	105	V7N	C25-C26-C27-C28
13	AE	105	V7N	C38-C26-C27-C28
13	AH	104	V7N	C27-C28-C29-C39
13	AH	104	V7N	C3-C4-C5-C6
13	AQ	104	V7N	C25-C26-C27-C28
13	AQ	104	V7N	C38-C26-C27-C28
13	AT	103	V7N	C27-C28-C29-C39
13	AT	103	V7N	O42-C34-C9-C10
13	AW	104	V7N	C27-C28-C29-C39
13	BB	101	V7N	C38-C26-C27-C28
13	BB	101	V7N	C26-C27-C28-C29
13	BC	101	V7N	C25-C26-C27-C28
13	BC	101	V7N	C38-C26-C27-C28
13	BH	1001	V7N	C27-C28-C29-C39
13	BJ	1001	V7N	C25-C26-C27-C28
13	BL	1001	V7N	C25-C26-C27-C28
13	BM	1001	V7N	C25-C26-C27-C28
13	BM	1001	V7N	C38-C26-C27-C28
13	BO	1001	V7N	C25-C26-C27-C28
13	BO	1001	V7N	C27-C28-C29-C39
13	BO	1001	V7N	C3-C4-C5-C6
13	BS	1001	V7N	C25-C26-C27-C28
13	BS	1001	V7N	C38-C26-C27-C28
13	BT	1001	V7N	C27-C28-C29-C39
13	BV	1001	V7N	C27-C28-C29-C39
13	BW	1001	V7N	C3-C4-C5-C33

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Mol	Chain	Res	Type	Atoms
13	BW	1001	V7N	C3-C4-C5-C6
13	af	103	V7N	C26-C27-C28-C29
13	aj	103	V7N	C26-C27-C28-C29
13	ba	102	V7N	C27-C28-C29-C39
13	bb	101	V7N	C30-C1-C2-C3
13	bb	101	V7N	C27-C28-C29-C39
13	bc	101	V7N	C25-C26-C27-C28
13	bc	101	V7N	C38-C26-C27-C28
13	bc	101	V7N	O42-C34-C9-C10
13	bd	101	V7N	C25-C26-C27-C28
13	bd	101	V7N	C38-C26-C27-C28
13	be	102	V7N	C25-C26-C27-C28
13	bf	101	V7N	C25-C26-C27-C28
13	bf	101	V7N	C38-C26-C27-C28
13	bi	102	V7N	C26-C27-C28-C29
13	bj	101	V7N	C25-C26-C27-C28
13	bj	101	V7N	C38-C26-C27-C28
13	bl	101	V7N	C25-C26-C27-C28
13	bl	101	V7N	C38-C26-C27-C28
13	bm	101	V7N	C38-C26-C27-C28
13	bn	101	V7N	C38-C26-C27-C28
13	bn	101	V7N	C27-C28-C29-C39
13	bn	101	V7N	C3-C4-C5-C33
13	bn	101	V7N	C3-C4-C5-C6
13	bp	101	V7N	C25-C26-C27-C28
13	bp	101	V7N	C38-C26-C27-C28
14	AJ	104	0V9	C2-C1-O3P-P
14	AJ	104	0V9	C1-O3P-P-O1P
14	AJ	104	0V9	C4-O4P-P-O1P
14	AJ	104	0V9	C4-O4P-P-O2P
14	AQ	105	0V9	C1-O3P-P-O1P
14	AQ	105	0V9	C1-O3P-P-O2P
14	aj	101	0V9	C2-C1-O3P-P
14	aj	101	0V9	C5-C4-O4P-P
14	aj	101	0V9	C1-O3P-P-O1P
14	bb	102	0V9	O2-C2-C3-O3
14	bb	102	0V9	C2-C1-O3P-P
14	bb	104	0V9	C2-C1-O3P-P
14	bb	104	0V9	C5-C4-O4P-P
14	bc	103	0V9	O2-C2-C3-O3
14	bc	103	0V9	C2-C1-O3P-P
14	bc	103	0V9	C5-C4-O4P-P

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Mol	Chain	Res	Type	Atoms
14	bd	104	0V9	O2-C2-C3-O3
14	be	104	0V9	O2-C2-C3-O3
14	bf	104	0V9	C4-O4P-P-O2P
14	bi	103	0V9	C1-O3P-P-O2P
14	bi	103	0V9	C1-O3P-P-O4P
14	bi	103	0V9	C4-O4P-P-O1P
14	bi	105	0V9	O2-C2-C3-O3
14	bj	103	0V9	C2-C1-O3P-P
14	bj	103	0V9	C5-C4-O4P-P
14	bk	1003	0V9	C5-C4-O4P-P
14	bk	1003	0V9	C4-O4P-P-O1P
14	bl	103	0V9	C2-C1-O3P-P
14	bm	104	0V9	O2-C2-C3-O3
14	bm	104	0V9	C5-C4-O4P-P
14	bm	104	0V9	C4-O4P-P-O3P
14	bo	104	0V9	O2-C2-C3-O3
14	bo	104	0V9	C2-C1-O3P-P
14	bo	104	0V9	C5-C4-O4P-P
14	bp	103	0V9	C2-C1-O3P-P
14	bp	103	0V9	C1-O3P-P-O1P
14	bp	103	0V9	C4-O4P-P-O1P
18	H1	1001	CD4	C29-O8-P1-O6
18	H1	1001	CD4	C29-O8-P1-O7
18	H1	1001	CD4	O9-C30-C31-O10
18	M	402	CD4	C13-C14-O2-C15
18	M	402	CD4	C30-C31-O10-P2
18	M	409	CD4	C13-C14-O2-C15
18	ad	101	CD4	C29-O8-P1-O5
18	ad	101	CD4	C29-O8-P1-O7
18	ad	101	CD4	C31-O10-P2-O12
18	ad	101	CD4	C31-O10-P2-O13
18	ae	102	CD4	C13-C14-O2-C15
18	ae	102	CD4	O1-C14-O2-C15
18	ae	102	CD4	C30-C29-O8-P1
18	ag	101	CD4	C13-C14-O2-C15
18	ag	101	CD4	C16-C15-O2-C14
19	H1	1003	PGW	C03-O11-P-O14
20	ao	101	MQ8	C13-C15-C16-C17
12	BA	105	LMT	O5B-C1B-O1B-C4'
12	bl	102	LMT	O5B-C1B-O1B-C4'
12	bn	103	LMT	O5B-C1B-O1B-C4'
18	M	409	CD4	O1-C14-O2-C15

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Mol	Chain	Res	Type	Atoms
18	ag	101	CD4	O1-C14-O2-C15
11	BJ	1004	BCL	C3-C5-C6-C7
11	af	102	BCL	C3-C5-C6-C7
12	BL	1004	LMT	O5B-C1B-O1B-C4'
20	L	302	MQ8	C24-C23-C25-C26
20	M	407	MQ8	C45-C43-C44-C46
20	M	407	MQ8	C42-C43-C44-C46
11	BR	102	BCL	C2A-CAA-CBA-CGA
11	BT	1002	BCL	C2A-CAA-CBA-CGA
11	AC	1001	BCL	C3-C5-C6-C7
12	BO	1002	LMT	O5B-C1B-O1B-C4'
12	BO	1002	LMT	C2B-C1B-O1B-C4'
18	M	402	CD4	O1-C14-O2-C15
13	AE	101	V7N	C27-C28-C29-C39
13	BG	1001	V7N	C27-C28-C29-C39
13	bc	101	V7N	C27-C28-C29-C39
13	bd	101	V7N	C27-C28-C29-C39
13	bl	101	V7N	C27-C28-C29-C39
12	BM	1002	LMT	O5B-C1B-O1B-C4'
11	AH	102	BCL	C3-C5-C6-C7
11	bn	104	BCL	C3-C5-C6-C7
12	AP	103	LMT	O5'-C5'-C6'-O6'
12	BQ	1003	LMT	O5'-C5'-C6'-O6'
12	AE	106	LMT	O5'-C5'-C6'-O6'
12	BA	104	LMT	O5'-C5'-C6'-O6'
12	BH	1005	LMT	O5'-C5'-C6'-O6'
12	AM	103	LMT	O5B-C1B-O1B-C4'
14	bb	102	0V9	C11-C12-C13-C14
12	AH	105	LMT	O5B-C5B-C6B-O6B
12	BC	103	LMT	O5'-C5'-C6'-O6'
12	BN	1002	LMT	O5'-C5'-C6'-O6'
24	af	101	V7B	O52-C47-C48-O53
12	BH	1005	LMT	C4'-C5'-C6'-O6'
11	AB	105	BCL	C3-C5-C6-C7
11	AK	103	BCL	C3-C5-C6-C7
11	AU	102	BCL	C3-C5-C6-C7
11	bi	106	BCL	C3-C5-C6-C7
12	BT	1004	LMT	O5'-C5'-C6'-O6'
12	ac	1001	LMT	O5'-C5'-C6'-O6'
14	AQ	105	0V9	C2-C1-O3P-P
14	bk	1003	0V9	C11-C12-C13-C14
12	AH	105	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
14	bl	103	0V9	C10-C11-C12-C13
11	BM	1004	BCL	C2A-CAA-CBA-CGA
14	bc	103	0V9	C11-C12-C13-C14
12	BX	101	LMT	O5'-C5'-C6'-O6'
12	BP	1005	LMT	O5'-C1'-O1'-C1
20	L	302	MQ8	C18-C20-C21-C22
14	bf	104	0V9	C10-C11-C12-C13
12	BR	104	LMT	O5B-C1B-O1B-C4'
18	H1	1001	CD4	C29-C30-C31-O10
11	ak	101	BCL	C3-C5-C6-C7
12	bl	102	LMT	C5'-C4'-O1B-C1B
18	ae	102	CD4	C15-C16-O3-C17
13	AQ	104	V7N	C27-C28-C29-C39
13	aj	103	V7N	C27-C28-C29-C39
12	AH	105	LMT	C4'-C5'-C6'-O6'
12	BC	103	LMT	C4'-C5'-C6'-O6'
14	AJ	104	0V9	C11-C12-C13-C14
12	BN	1003	LMT	O5'-C5'-C6'-O6'
12	BM	1003	LMT	C4'-C5'-C6'-O6'
11	AS	101	BCL	C10-C11-C12-C13
12	AK	101	LMT	C2'-C1'-O1'-C1
12	AT	102	LMT	C2'-C1'-O1'-C1
12	BF	104	LMT	C2'-C1'-O1'-C1
12	BG	1002	LMT	C2'-C1'-O1'-C1
12	BT	1003	LMT	C2'-C1'-O1'-C1
12	BU	1004	LMT	C2'-C1'-O1'-C1
12	BW	1003	LMT	C2'-C1'-O1'-C1
12	BW	1004	LMT	C2'-C1'-O1'-C1
12	bo	103	LMT	C2'-C1'-O1'-C1
12	BK	1002	LMT	O5B-C1B-O1B-C4'
14	bk	1003	0V9	O2-C2-C3-O3
24	ag	103	V7B	O7-C8-C9-O8
20	L	302	MQ8	C22-C23-C25-C26
11	AN	105	BCL	C6-C7-C8-C9
11	AW	103	BCL	C11-C12-C13-C14
11	BS	1006	BCL	C11-C10-C8-C9
11	BX	103	BCL	C11-C10-C8-C9
11	ah	1001	BCL	C14-C13-C15-C16
11	ap	1001	BCL	C6-C7-C8-C9
11	bb	103	BCL	C6-C7-C8-C9
11	bp	104	BCL	C11-C10-C8-C9
13	AE	105	V7N	C3-C4-C5-C33

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Mol	Chain	Res	Type	Atoms
13	AH	104	V7N	C38-C26-C27-C28
13	AQ	104	V7N	C3-C4-C5-C33
13	AW	104	V7N	C3-C4-C5-C33
13	BB	101	V7N	C3-C4-C5-C33
13	BC	101	V7N	C3-C4-C5-C33
13	BE	101	V7N	C38-C26-C27-C28
13	BE	101	V7N	C3-C4-C5-C33
13	BH	1001	V7N	C3-C4-C5-C33
13	BJ	1001	V7N	C38-C26-C27-C28
13	BK	1001	V7N	C38-C26-C27-C28
13	BL	1001	V7N	C38-C26-C27-C28
13	BO	1001	V7N	C38-C26-C27-C28
13	BQ	1001	V7N	C3-C4-C5-C33
13	BW	1001	V7N	C38-C26-C27-C28
13	aj	103	V7N	C38-C26-C27-C28
13	ba	102	V7N	C38-C26-C27-C28
13	bb	101	V7N	C3-C4-C5-C33
13	be	102	V7N	C38-C26-C27-C28
13	bj	101	V7N	C3-C4-C5-C33
13	bo	102	V7N	C38-C26-C27-C28
23	M	405	CRT	C34-C33-C35-C36
13	AH	104	V7N	C25-C26-C27-C28
13	AQ	104	V7N	C3-C4-C5-C6
13	BB	101	V7N	C25-C26-C27-C28
13	BE	101	V7N	C25-C26-C27-C28
13	BH	1001	V7N	C3-C4-C5-C6
13	BK	1001	V7N	C25-C26-C27-C28
13	BP	1001	V7N	C25-C26-C27-C28
13	BV	1001	V7N	C25-C26-C27-C28
13	BW	1001	V7N	C25-C26-C27-C28
13	aj	103	V7N	C25-C26-C27-C28
13	ba	102	V7N	C25-C26-C27-C28
13	bb	101	V7N	C3-C4-C5-C6
13	bm	101	V7N	C25-C26-C27-C28
13	bn	101	V7N	C25-C26-C27-C28
23	M	405	CRT	C32-C33-C35-C36
12	AI	102	LMT	O5'-C5'-C6'-O6'
12	BJ	1002	LMT	O5'-C5'-C6'-O6'
12	BX	102	LMT	O5'-C5'-C6'-O6'
12	bg	1001	LMT	O5'-C5'-C6'-O6'
12	AE	106	LMT	C4'-C5'-C6'-O6'
12	BA	104	LMT	C4'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
12	BT	1003	LMT	O5B-C1B-O1B-C4'
12	AT	104	LMT	O5'-C5'-C6'-O6'
12	BG	1002	LMT	O5'-C5'-C6'-O6'
11	BT	1002	BCL	C3-C5-C6-C7
11	BH	1004	BCL	C13-C15-C16-C17
11	ak	101	BCL	C10-C11-C12-C13
12	AR	103	LMT	O5'-C5'-C6'-O6'
12	bf	102	LMT	C5'-C4'-O1B-C1B
11	AM	102	BCL	C10-C11-C12-C13
12	BI	101	LMT	O5B-C1B-O1B-C4'
12	BA	105	LMT	C5'-C4'-O1B-C1B
18	ae	102	CD4	C17-C18-C19-C20
18	ae	102	CD4	C46-C47-C48-C49
12	AK	101	LMT	O5'-C5'-C6'-O6'
11	bj	104	BCL	C13-C15-C16-C17
12	BL	1004	LMT	C5'-C4'-O1B-C1B
12	BI	103	LMT	O5B-C1B-O1B-C4'
12	BB	103	LMT	O5'-C5'-C6'-O6'
12	BO	1004	LMT	O5'-C5'-C6'-O6'
12	bo	103	LMT	O5'-C5'-C6'-O6'
11	bk	1002	BCL	C15-C16-C17-C18
14	bi	105	0V9	C2-C1-O3P-P
14	bi	103	0V9	C10-C11-C12-C13
12	BF	103	LMT	O5'-C5'-C6'-O6'
12	BL	1003	LMT	O5'-C5'-C6'-O6'
14	bm	104	0V9	C11-C12-C13-C14
11	bi	106	BCL	C10-C11-C12-C13
11	BV	1002	BCL	C12-C13-C15-C16
11	af	102	BCL	C11-C10-C8-C7
11	ap	1001	BCL	C6-C7-C8-C10
11	bb	103	BCL	C6-C7-C8-C10
13	af	103	V7N	C27-C28-C29-C39
13	bm	101	V7N	C27-C28-C29-C39
13	bo	102	V7N	C27-C28-C29-C39
13	bp	101	V7N	C27-C28-C29-C39
12	BS	1003	LMT	O5B-C1B-O1B-C4'
11	AJ	101	BCL	C13-C15-C16-C17
12	AJ	103	LMT	O5'-C5'-C6'-O6'
12	BR	104	LMT	O1'-C1-C2-C3
12	BQ	1003	LMT	O5'-C1'-O1'-C1
24	ag	103	V7B	O6-C1-O1-C7
13	AT	103	V7N	C26-C27-C28-C29

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Mol	Chain	Res	Type	Atoms
13	BK	1001	V7N	C26-C27-C28-C29
13	ba	102	V7N	C26-C27-C28-C29
13	bn	101	V7N	C26-C27-C28-C29
12	M	408	LMT	O5'-C5'-C6'-O6'
12	AP	103	LMT	C4'-C5'-C6'-O6'
12	AS	103	LMT	O5B-C1B-O1B-C4'
11	BA	103	BCL	C5-C6-C7-C8
11	aj	102	BCL	C10-C11-C12-C13
11	bb	103	BCL	C8-C10-C11-C12
11	AF	102	BCL	C15-C16-C17-C18
11	AN	103	BCL	C5-C6-C7-C8
11	BJ	1004	BCL	C10-C11-C12-C13
11	be	105	BCL	C8-C10-C11-C12
12	BC	104	LMT	O5'-C5'-C6'-O6'
12	bc	102	LMT	C4B-C5B-C6B-O6B
12	BE	104	LMT	C5'-C4'-O1B-C1B
11	AC	1001	BCL	C10-C11-C12-C13
11	AH	102	BCL	C13-C15-C16-C17
11	AJ	102	BCL	C10-C11-C12-C13
11	AP	101	BCL	C8-C10-C11-C12
11	BD	103	BCL	C5-C6-C7-C8
11	ab	101	BCL	C8-C10-C11-C12
11	ai	101	BCL	C15-C16-C17-C18
11	be	105	BCL	C15-C16-C17-C18
14	AJ	104	0V9	C4-O4P-P-O3P
14	AQ	105	0V9	C1-O3P-P-O4P
14	aj	101	0V9	C1-O3P-P-O4P
14	bf	104	0V9	C4-O4P-P-O3P
14	bj	103	0V9	C1-O3P-P-O4P
14	bp	103	0V9	C1-O3P-P-O4P
14	bp	103	0V9	C4-O4P-P-O3P
18	H1	1001	CD4	C29-O8-P1-O5
12	bk	1001	LMT	O5'-C5'-C6'-O6'
12	AP	103	LMT	C1-C2-C3-C4
11	AW	101	BCL	C13-C15-C16-C17
11	BG	1003	BCL	C15-C16-C17-C18
11	AM	101	BCL	C8-C10-C11-C12
11	ae	101	BCL	C13-C15-C16-C17
11	BD	103	BCL	C2A-CAA-CBA-CGA
12	BS	1005	LMT	O5'-C5'-C6'-O6'
12	AD	103	LMT	O5B-C1B-O1B-C4'
12	BD	105	LMT	O5B-C1B-O1B-C4'

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Mol	Chain	Res	Type	Atoms
12	BQ	1003	LMT	C4'-C5'-C6'-O6'
12	AG	103	LMT	O5B-C1B-O1B-C4'
12	BS	1002	LMT	O5B-C1B-O1B-C4'
12	BK	1004	LMT	O5B-C5B-C6B-O6B
11	BL	1005	BCL	C3-C5-C6-C7
11	aj	102	BCL	C3-C5-C6-C7
12	AA	1003	LMT	C5-C6-C7-C8
12	BS	1003	LMT	C3-C4-C5-C6
12	AG	103	LMT	C6-C7-C8-C9
18	M	402	CD4	C16-C15-O2-C14
18	ae	102	CD4	C41-C42-C43-C44
14	be	104	OV9	C2-C1-O3P-P
12	AI	102	LMT	O5B-C5B-C6B-O6B
12	bc	102	LMT	O5B-C5B-C6B-O6B
12	AR	103	LMT	C4B-C5B-C6B-O6B
11	AR	102	BCL	C3-C5-C6-C7
12	AH	103	LMT	C2'-C1'-O1'-C1
12	BM	1005	LMT	C2'-C1'-O1'-C1
12	BP	1005	LMT	C2'-C1'-O1'-C1
12	BQ	1003	LMT	C2'-C1'-O1'-C1
24	ag	103	V7B	C2-C1-O1-C7
18	ae	102	CD4	O16-C33-C34-O14
12	BR	103	LMT	C4-C5-C6-C7
18	ag	101	CD4	C7-C8-C9-C10
11	ai	101	BCL	C5-C6-C7-C8
11	BB	105	BCL	C16-C17-C18-C19
12	BG	1002	LMT	C3-C4-C5-C6
11	AR	101	BCL	C2-C3-C5-C6
11	AS	101	BCL	C11-C10-C8-C9
11	L	304	BCL	C14-C13-C15-C16
11	af	102	BCL	C11-C10-C8-C9
11	af	102	BCL	C14-C13-C15-C16
11	am	1001	BCL	C11-C10-C8-C9
11	an	1001	BCL	C11-C10-C8-C9
11	bk	1002	BCL	C11-C10-C8-C9
18	H1	1001	CD4	C37-C38-C39-C40
11	AP	101	BCL	C13-C15-C16-C17
12	L	305	LMT	O5'-C5'-C6'-O6'
11	BL	1005	BCL	C2A-CAA-CBA-CGA
11	BV	1002	BCL	C2A-CAA-CBA-CGA
13	AB	101	V7N	C38-C26-C27-C28
13	AH	104	V7N	C3-C4-C5-C33

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Mol	Chain	Res	Type	Atoms
13	AW	104	V7N	C38-C26-C27-C28
13	BN	1001	V7N	C38-C26-C27-C28
13	BP	1001	V7N	C38-C26-C27-C28
13	BP	1001	V7N	C3-C4-C5-C33
13	BQ	1001	V7N	C38-C26-C27-C28
13	BV	1001	V7N	C38-C26-C27-C28
13	ba	102	V7N	C3-C4-C5-C33
13	bh	101	V7N	C38-C26-C27-C28
13	bi	102	V7N	C38-C26-C27-C28
12	L	301	LMT	C7-C8-C9-C10
18	ad	101	CD4	C3-C4-C5-C6
13	AB	101	V7N	C25-C26-C27-C28
13	AW	104	V7N	C25-C26-C27-C28
13	BN	1001	V7N	C25-C26-C27-C28
13	BQ	1001	V7N	C25-C26-C27-C28
13	ba	102	V7N	C3-C4-C5-C6
13	bh	101	V7N	C25-C26-C27-C28
13	bi	102	V7N	C25-C26-C27-C28
12	bi	104	LMT	C1-C2-C3-C4
12	BR	103	LMT	O5'-C5'-C6'-O6'
12	L	301	LMT	O5'-C5'-C6'-O6'
11	AU	102	BCL	C10-C11-C12-C13
11	bk	1002	BCL	C5-C6-C7-C8
12	BJ	1002	LMT	C3-C4-C5-C6
12	BX	101	LMT	C4'-C5'-C6'-O6'
24	af	101	V7B	C46-C47-C48-O53
12	BA	101	LMT	C3-C4-C5-C6
12	bi	104	LMT	C5-C6-C7-C8
12	AH	103	LMT	O5'-C1'-O1'-C1
12	BH	1003	LMT	O5'-C1'-O1'-C1
12	BM	1005	LMT	O5'-C1'-O1'-C1
12	ba	101	LMT	O5'-C1'-O1'-C1
11	AG	102	BCL	C13-C15-C16-C17
11	bg	1002	BCL	C13-C15-C16-C17
13	AH	104	V7N	C22-C23-C24-C25
12	bf	102	LMT	C6-C7-C8-C9
12	BE	104	LMT	C2-C3-C4-C5
14	L	310	OV9	C10-C11-C12-C13
11	ah	1001	BCL	C8-C10-C11-C12
12	BS	1004	LMT	O5B-C1B-O1B-C4'
11	AF	101	BCL	C3A-C2A-CAA-CBA
11	AN	105	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	BL	1005	BCL	C3A-C2A-CAA-CBA
11	BW	1002	BCL	C3A-C2A-CAA-CBA
11	bg	1002	BCL	C3A-C2A-CAA-CBA
11	bi	106	BCL	C3A-C2A-CAA-CBA
11	bj	104	BCL	C3A-C2A-CAA-CBA
11	bn	104	BCL	C3A-C2A-CAA-CBA
11	BC	105	BCL	C10-C11-C12-C13
14	bk	1003	0V9	C2-C3-O3-C30
12	AH	103	LMT	C2-C1-O1'-C1'
12	AK	104	LMT	C2-C1-O1'-C1'
12	BL	1003	LMT	C2-C1-O1'-C1'
12	BM	1002	LMT	C2-C1-O1'-C1'
12	H2	201	LMT	C2-C1-O1'-C1'
12	bc	102	LMT	C2-C1-O1'-C1'
12	BV	1004	LMT	O1'-C1-C2-C3
12	BT	1004	LMT	C4'-C5'-C6'-O6'
11	BH	1004	BCL	O2A-C1-C2-C3
11	bm	103	BCL	C3-C5-C6-C7
12	BD	101	LMT	O5'-C5'-C6'-O6'
12	be	101	LMT	O5'-C5'-C6'-O6'
11	AU	101	BCL	C4-C3-C5-C6
11	ak	101	BCL	C4-C3-C5-C6
11	bd	103	BCL	C4-C3-C5-C6
12	BK	1004	LMT	C4'-C5'-C6'-O6'
11	AG	102	BCL	C2-C3-C5-C6
11	ab	101	BCL	C2-C3-C5-C6
11	ak	101	BCL	C2-C3-C5-C6
11	bd	103	BCL	C2-C3-C5-C6
11	bl	104	BCL	C2-C3-C5-C6
25	ai	102	UYH	C11-C10-O7-C8
12	BS	1005	LMT	C7-C8-C9-C10
12	BE	102	LMT	O5B-C1B-O1B-C4'
12	BE	104	LMT	C3'-C4'-O1B-C1B
12	bl	102	LMT	C3'-C4'-O1B-C1B
18	ae	102	CD4	C38-C39-C40-C41
19	H1	1003	PGW	C10-C06-C07-C08
11	BS	1006	BCL	O1A-CGA-O2A-C1
11	AD	101	BCL	C13-C15-C16-C17
12	AG	103	LMT	C4-C5-C6-C7
18	H1	1001	CD4	C25-C26-C27-C60
12	be	101	LMT	O5B-C5B-C6B-O6B
12	BG	1004	LMT	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
11	AJ	101	BCL	C2-C1-O2A-CGA
11	AK	103	BCL	C2-C1-O2A-CGA
11	BJ	1004	BCL	C2-C1-O2A-CGA
11	bl	104	BCL	C2-C1-O2A-CGA
12	BR	103	LMT	C3-C4-C5-C6
11	bh	102	BCL	C13-C15-C16-C17
12	BL	1004	LMT	C3'-C4'-O1B-C1B
12	bc	102	LMT	C6-C7-C8-C9
11	BB	105	BCL	C16-C17-C18-C20
12	AL	101	LMT	O5B-C1B-O1B-C4'
12	bk	1001	LMT	C7-C8-C9-C10
12	BM	1003	LMT	O5'-C5'-C6'-O6'
18	M	409	CD4	C11-C12-C13-C14
12	BL	1003	LMT	C7-C8-C9-C10
18	ad	101	CD4	C11-C10-C9-C8
25	ai	102	UYH	C33-C34-C35-C36
11	BU	1001	BCL	C5-C6-C7-C8
11	AF	101	BCL	C4-C3-C5-C6
11	AG	102	BCL	C4-C3-C5-C6
11	AL	103	BCL	C4-C3-C5-C6
11	ab	101	BCL	C4-C3-C5-C6
11	ap	1001	BCL	C4-C3-C5-C6
11	AC	1001	BCL	C11-C10-C8-C7
11	AF	101	BCL	C2-C3-C5-C6
11	AJ	102	BCL	C11-C10-C8-C7
11	AU	101	BCL	C2-C3-C5-C6
11	AW	103	BCL	C11-C10-C8-C7
11	L	304	BCL	C12-C13-C15-C16
11	af	102	BCL	C12-C13-C15-C16
11	ah	1001	BCL	C12-C13-C15-C16
11	am	1001	BCL	C11-C10-C8-C7
11	an	1001	BCL	C11-C10-C8-C7
11	ap	1001	BCL	C2-C3-C5-C6
11	bi	106	BCL	C11-C10-C8-C7
11	bk	1002	BCL	C11-C10-C8-C7
11	bn	104	BCL	C12-C13-C15-C16
20	ao	101	MQ8	C27-C28-C30-C31
12	BA	105	LMT	C3'-C4'-O1B-C1B
11	BK	1005	BCL	C8-C10-C11-C12
25	ai	102	UYH	O9-C10-O7-C8
18	M	409	CD4	C35-C36-C37-C38
11	BO	1005	BCL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
14	H1	1002	0V9	C34-C35-C36-C37
12	BX	102	LMT	O5B-C1B-O1B-C4'
12	AK	104	LMT	C11-C10-C9-C8
12	BH	1002	LMT	O1'-C1-C2-C3
18	H1	1001	CD4	C46-C47-C48-C49
12	AV	103	LMT	C1-C2-C3-C4
12	AN	101	LMT	O5'-C5'-C6'-O6'
12	L	308	LMT	O5B-C5B-C6B-O6B
11	bi	106	BCL	C16-C17-C18-C20
12	AH	105	LMT	O5'-C1'-O1'-C1
12	AQ	103	LMT	O5'-C1'-O1'-C1
11	ac	1002	BCL	C15-C16-C17-C18
11	ae	101	BCL	C15-C16-C17-C18
11	bc	104	BCL	C8-C10-C11-C12
12	AS	103	LMT	C4-C5-C6-C7
12	bf	102	LMT	C3'-C4'-O1B-C1B
14	bf	104	0V9	C11-C10-O2-C2
12	BK	1003	LMT	O5'-C5'-C6'-O6'
13	BO	1001	V7N	C26-C27-C28-C29
14	AJ	104	0V9	O2-C2-C3-O3
14	bf	104	0V9	O2-C2-C3-O3
12	AR	103	LMT	O5B-C5B-C6B-O6B
12	BW	1004	LMT	O5'-C5'-C6'-O6'
12	AM	103	LMT	O5B-C5B-C6B-O6B
12	AV	103	LMT	O5B-C5B-C6B-O6B
12	BO	1002	LMT	O5B-C5B-C6B-O6B
11	AQ	102	BCL	C13-C15-C16-C17
14	be	104	0V9	C15-C16-C17-C18
11	bl	104	BCL	C4-C3-C5-C6
20	ao	101	MQ8	C29-C28-C30-C31
20	ao	101	MQ8	C39-C38-C40-C41
11	AL	103	BCL	C2-C3-C5-C6
11	BV	1002	BCL	C2-C3-C5-C6
12	BL	1002	LMT	O5B-C1B-O1B-C4'
12	BP	1003	LMT	O5B-C1B-O1B-C4'
18	ag	101	CD4	C47-C48-C49-C50
11	AC	1001	BCL	C11-C10-C8-C9
11	AJ	102	BCL	C11-C10-C8-C9
11	AW	103	BCL	C11-C10-C8-C9
11	AX	101	BCL	C11-C10-C8-C9
11	BK	1005	BCL	C11-C10-C8-C9
11	BV	1002	BCL	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
11	ag	102	BCL	C11-C12-C13-C14
11	ah	1001	BCL	C11-C12-C13-C14
11	bh	102	BCL	C6-C7-C8-C9
11	bi	106	BCL	C11-C10-C8-C9
11	bn	104	BCL	C14-C13-C15-C16
18	ag	101	CD4	C41-C42-C43-C44
11	AX	101	BCL	C2A-CAA-CBA-CGA
11	bd	103	BCL	C2A-CAA-CBA-CGA
11	bk	1002	BCL	C2A-CAA-CBA-CGA
12	bf	102	LMT	O5B-C5B-C6B-O6B
13	BO	1001	V7N	C3-C4-C5-C33
21	M	404	BPH	C13-C15-C16-C17
12	bp	102	LMT	O1'-C1-C2-C3
13	bo	102	V7N	C25-C26-C27-C28
11	AB	102	BCL	C1A-C2A-CAA-CBA
11	AD	101	BCL	C1A-C2A-CAA-CBA
11	AE	102	BCL	C1A-C2A-CAA-CBA
11	AG	102	BCL	C1A-C2A-CAA-CBA
11	AH	102	BCL	C1A-C2A-CAA-CBA
11	AK	103	BCL	C1A-C2A-CAA-CBA
11	AP	101	BCL	C1A-C2A-CAA-CBA
11	AR	101	BCL	C1A-C2A-CAA-CBA
11	AS	102	BCL	C1A-C2A-CAA-CBA
11	AS	104	BCL	C1A-C2A-CAA-CBA
11	bc	104	BCL	C1A-C2A-CAA-CBA
11	bl	104	BCL	C1A-C2A-CAA-CBA
11	bi	106	BCL	C16-C17-C18-C19
14	bf	104	0V9	O4-C10-O2-C2
12	bf	102	LMT	O5B-C1B-O1B-C4'
14	bl	103	0V9	C16-C17-C18-C19
11	AS	101	BCL	C8-C10-C11-C12
14	aj	101	0V9	C4-O4P-P-O3P
19	H1	1003	PGW	C03-O11-P-O12
11	BB	105	BCL	C3-C5-C6-C7
14	AQ	105	0V9	O3P-C1-C2-C3
14	H1	1002	0V9	O3P-C1-C2-C3
14	bk	1003	0V9	O3P-C1-C2-C3
14	bp	103	0V9	O3P-C1-C2-C3
18	ae	102	CD4	O13-C32-C33-C34
12	AT	102	LMT	C5'-C4'-O1B-C1B
14	bp	103	0V9	C10-C11-C12-C13
12	BD	104	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
12	ba	101	LMT	O5B-C1B-O1B-C4'
11	bf	103	BCL	C8-C10-C11-C12
12	BS	1003	LMT	C2-C3-C4-C5
12	BU	1004	LMT	C5-C6-C7-C8
12	BN	1003	LMT	C4'-C5'-C6'-O6'
12	BT	1005	LMT	O1'-C1-C2-C3
11	AR	101	BCL	C4-C3-C5-C6
20	ao	101	MQ8	C32-C33-C35-C36
12	AL	104	LMT	C7-C8-C9-C10
12	bf	102	LMT	C11-C10-C9-C8
12	bg	1001	LMT	C5-C6-C7-C8
18	H1	1001	CD4	C49-C50-C51-C52
11	AN	102	BCL	C13-C15-C16-C17
12	AL	101	LMT	C2B-C1B-O1B-C4'
12	BJ	1003	LMT	O5'-C5'-C6'-O6'
18	ae	102	CD4	C52-C53-C54-C55
11	BP	1002	BCL	C2A-CAA-CBA-CGA
12	AP	103	LMT	O5B-C5B-C6B-O6B
12	BI	104	LMT	O5'-C5'-C6'-O6'
12	bb	105	LMT	O5'-C5'-C6'-O6'
11	aa	1001	BCL	C3-C5-C6-C7
14	AJ	104	0V9	C1-C2-C3-O3
14	bb	102	0V9	C1-C2-C3-O3
14	bd	104	0V9	C1-C2-C3-O3
14	be	104	0V9	C1-C2-C3-O3
14	bi	105	0V9	C1-C2-C3-O3
18	M	409	CD4	C28-C15-C16-O3
12	AD	103	LMT	O5'-C5'-C6'-O6'
12	BT	1005	LMT	O5'-C5'-C6'-O6'
12	BT	1004	LMT	O1'-C1-C2-C3
12	bg	1001	LMT	C9-C10-C11-C12
20	L	302	MQ8	C12-C11-C3-C2
24	ag	103	V7B	C8-C7-O1-C1
12	ba	101	LMT	O5'-C5'-C6'-O6'
11	bn	104	BCL	C5-C6-C7-C8
12	AR	103	LMT	C2B-C1B-O1B-C4'
12	AD	103	LMT	C4-C5-C6-C7
12	L	306	LMT	C3-C4-C5-C6
12	AL	101	LMT	O5B-C5B-C6B-O6B
11	AE	102	BCL	C3-C5-C6-C7
12	BW	1004	LMT	O5'-C1'-O1'-C1
11	AL	102	BCL	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
11	af	102	BCL	C8-C10-C11-C12
12	AM	103	LMT	O5'-C5'-C6'-O6'
12	AT	104	LMT	O5B-C5B-C6B-O6B
12	BL	1006	LMT	O1'-C1-C2-C3
11	af	102	BCL	C13-C15-C16-C17
12	BV	1005	LMT	O5'-C5'-C6'-O6'
24	af	101	V7B	C35-C36-C37-C38
12	ac	1001	LMT	C4'-C5'-C6'-O6'
11	BA	103	BCL	C10-C11-C12-C13
11	BK	1005	BCL	C15-C16-C17-C18
11	bm	103	BCL	C10-C11-C12-C13
12	AA	1003	LMT	O5'-C5'-C6'-O6'
12	BC	104	LMT	O5B-C5B-C6B-O6B
12	BP	1005	LMT	O5'-C5'-C6'-O6'
12	bi	101	LMT	O5'-C5'-C6'-O6'
11	BV	1002	BCL	C4-C3-C5-C6
20	ao	101	MQ8	C34-C33-C35-C36
12	bo	101	LMT	O5B-C5B-C6B-O6B
12	bp	102	LMT	O5B-C5B-C6B-O6B
12	BI	104	LMT	C5-C6-C7-C8
11	bp	104	BCL	C13-C15-C16-C17
20	L	302	MQ8	C12-C11-C3-C4
18	ad	101	CD4	C28-C15-O2-C14
12	bj	102	LMT	O5'-C5'-C6'-O6'
11	BE	103	BCL	C2-C1-O2A-CGA
12	AS	103	LMT	O5'-C5'-C6'-O6'
12	AS	103	LMT	C11-C10-C9-C8
12	H2	201	LMT	C5-C6-C7-C8
14	bm	104	0V9	C2-C1-O3P-P
14	bn	102	0V9	C2-C1-O3P-P
18	ag	101	CD4	C33-C32-O13-P2
12	AL	104	LMT	C9-C10-C11-C12
14	bc	103	0V9	O3P-C1-C2-O2
14	bi	105	0V9	O3P-C1-C2-O2
18	ag	101	CD4	O2-C15-C28-O5
11	BS	1006	BCL	C10-C11-C12-C13
11	BW	1002	BCL	C5-C6-C7-C8
12	BJ	1002	LMT	C2-C3-C4-C5
12	bd	102	LMT	C11-C10-C9-C8
12	BD	101	LMT	O5B-C1B-O1B-C4'
14	bb	102	0V9	C40-C41-C42-C43
14	bo	104	0V9	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
12	BE	104	LMT	C2'-C1'-O1'-C1
12	ba	101	LMT	C2'-C1'-O1'-C1
12	be	103	LMT	C7-C8-C9-C10
12	BN	1002	LMT	C4'-C5'-C6'-O6'
18	H1	1001	CD4	O2-C15-C16-O3
13	bb	101	V7N	C31-C1-C2-C3
14	bi	103	0V9	C38-C39-C40-C41
12	AH	103	LMT	O5'-C5'-C6'-O6'
12	BH	1003	LMT	O5B-C1B-O1B-C4'
11	AI	101	BCL	C4-C3-C5-C6
11	AL	102	BCL	C4-C3-C5-C6
12	BC	104	LMT	O1'-C1-C2-C3
11	AI	101	BCL	C2-C3-C5-C6
11	AK	103	BCL	C6-C7-C8-C10
11	AL	102	BCL	C11-C10-C8-C7
11	AP	102	BCL	C6-C7-C8-C10
11	AS	101	BCL	C11-C10-C8-C7
11	AX	101	BCL	C11-C10-C8-C7
11	ag	102	BCL	C11-C12-C13-C15
11	ah	1001	BCL	C11-C12-C13-C15
11	al	1001	BCL	C11-C10-C8-C7
11	am	1001	BCL	C6-C7-C8-C10
11	bd	103	BCL	C11-C10-C8-C7
11	bf	103	BCL	C12-C13-C15-C16
11	bp	104	BCL	C11-C10-C8-C7
11	AL	102	BCL	C11-C10-C8-C9
11	AR	101	BCL	C14-C13-C15-C16
11	BN	1004	BCL	C11-C10-C8-C9
11	BP	1002	BCL	C6-C7-C8-C9
11	BQ	1002	BCL	C14-C13-C15-C16
11	BT	1002	BCL	C11-C10-C8-C9
11	M	406	BCL	C14-C13-C15-C16
11	al	1001	BCL	C11-C10-C8-C9
11	ao	102	BCL	C14-C13-C15-C16
11	bg	1002	BCL	C6-C7-C8-C9
11	bm	103	BCL	C11-C12-C13-C14
14	be	104	0V9	C2-C3-O3-C30
12	L	307	LMT	C3-C4-C5-C6
11	ao	102	BCL	C8-C10-C11-C12
13	bb	101	V7N	O32-C1-C2-C3
13	bl	101	V7N	O32-C1-C2-C3
13	bo	102	V7N	O32-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
13	AT	103	V7N	C38-C26-C27-C28
13	AT	103	V7N	C3-C4-C5-C33
13	bb	101	V7N	C38-C26-C27-C28
12	BG	1002	LMT	C4'-C5'-C6'-O6'
13	bb	101	V7N	C25-C26-C27-C28
11	AX	101	BCL	C5-C6-C7-C8
11	BE	103	BCL	C10-C11-C12-C13
12	BN	1002	LMT	C3-C4-C5-C6
12	bc	102	LMT	C9-C10-C11-C12
11	AL	103	BCL	C15-C16-C17-C18
12	BF	101	LMT	O5B-C1B-O1B-C4'
12	BJ	1002	LMT	C4-C5-C6-C7
18	ag	101	CD4	C15-C16-O3-C17
11	BI	102	BCL	C5-C6-C7-C8
14	AJ	104	0V9	O3P-C1-C2-C3
14	bm	104	0V9	O3P-C1-C2-C3
12	BB	104	LMT	O1'-C1-C2-C3
19	H1	1003	PGW	C1-C2-C3-C4
14	bo	104	0V9	O4P-C4-C5-N
11	AR	102	BCL	C5-C6-C7-C8
11	ba	103	BCL	C5-C6-C7-C8
11	BO	1005	BCL	C4-C3-C5-C6
11	AL	102	BCL	C2-C3-C5-C6
11	BN	1004	BCL	C2-C3-C5-C6
11	BO	1005	BCL	C2-C3-C5-C6
20	ao	101	MQ8	C37-C38-C40-C41
12	BB	103	LMT	C5-C6-C7-C8
11	AV	102	BCL	C13-C15-C16-C17
11	bj	104	BCL	C5-C6-C7-C8
12	L	306	LMT	C1-C2-C3-C4
12	AK	104	LMT	O5B-C5B-C6B-O6B
14	bk	1003	0V9	C2-C1-O3P-P
18	H1	1001	CD4	C15-C28-O5-P1
18	ae	102	CD4	C33-C32-O13-P2
19	H1	1003	PGW	C02-C03-O11-P
11	AL	103	BCL	C3A-C2A-CAA-CBA
11	BB	105	BCL	C3A-C2A-CAA-CBA
11	BI	102	BCL	C3A-C2A-CAA-CBA
11	bb	103	BCL	C3A-C2A-CAA-CBA
11	bd	103	BCL	C3A-C2A-CAA-CBA
12	bn	103	LMT	C3-C4-C5-C6
12	BR	101	LMT	O5B-C1B-O1B-C4'

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Mol	Chain	Res	Type	Atoms
13	bf	101	V7N	C27-C28-C29-C39
12	AA	1003	LMT	C2-C1-O1'-C1'
12	AB	104	LMT	C2-C1-O1'-C1'
12	AE	104	LMT	C2-C1-O1'-C1'
12	AE	106	LMT	C2-C1-O1'-C1'
12	AQ	103	LMT	C2-C1-O1'-C1'
12	BA	102	LMT	C2-C1-O1'-C1'
12	BA	105	LMT	C2-C1-O1'-C1'
12	BB	104	LMT	C2-C1-O1'-C1'
12	BC	104	LMT	C2-C1-O1'-C1'
12	BD	101	LMT	C2-C1-O1'-C1'
12	BF	103	LMT	C2-C1-O1'-C1'
12	BH	1002	LMT	C2-C1-O1'-C1'
12	BI	103	LMT	C2-C1-O1'-C1'
12	BJ	1002	LMT	C2-C1-O1'-C1'
12	BK	1002	LMT	C2-C1-O1'-C1'
12	BK	1003	LMT	C2-C1-O1'-C1'
12	BK	1004	LMT	C2-C1-O1'-C1'
12	BL	1002	LMT	C2-C1-O1'-C1'
12	BL	1006	LMT	C2-C1-O1'-C1'
12	BN	1003	LMT	C2-C1-O1'-C1'
12	BP	1005	LMT	C2-C1-O1'-C1'
12	BQ	1003	LMT	C2-C1-O1'-C1'
12	BR	104	LMT	C2-C1-O1'-C1'
12	BT	1004	LMT	C2-C1-O1'-C1'
12	BT	1005	LMT	C2-C1-O1'-C1'
12	BU	1002	LMT	C2-C1-O1'-C1'
12	BX	102	LMT	C2-C1-O1'-C1'
12	L	306	LMT	C2-C1-O1'-C1'
12	M	408	LMT	C2-C1-O1'-C1'
12	bf	102	LMT	C2-C1-O1'-C1'
12	bj	102	LMT	C2-C1-O1'-C1'
11	bf	103	BCL	C10-C11-C12-C13
11	AV	104	BCL	CBA-CGA-O2A-C1
11	BS	1006	BCL	CBA-CGA-O2A-C1
11	BB	105	BCL	C5-C6-C7-C8
12	ba	101	LMT	C2B-C1B-O1B-C4'
14	H1	1002	0V9	C1-C2-C3-O3
14	bm	104	0V9	C1-C2-C3-O3
18	M	402	CD4	C28-C15-C16-O3
18	ae	102	CD4	C28-C15-C16-O3
18	ae	102	CD4	C32-C33-C34-O14

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Mol	Chain	Res	Type	Atoms
18	ag	101	CD4	C28-C15-C16-O3
24	ag	103	V7B	C7-C8-C9-O8
11	BG	1003	BCL	O2A-C1-C2-C3
11	BT	1002	BCL	O2A-C1-C2-C3
21	L	309	BPH	O2A-C1-C2-C3
11	BN	1004	BCL	C4-C3-C5-C6
12	bn	103	LMT	C9-C10-C11-C12
11	ac	1002	BCL	C2A-CAA-CBA-CGA
11	bc	104	BCL	C2A-CAA-CBA-CGA
12	BD	101	LMT	C5'-C4'-O1B-C1B
14	bk	1003	0V9	O3P-C1-C2-O2
14	bm	104	0V9	O3P-C1-C2-O2
18	H1	1001	CD4	O2-C15-C28-O5
18	ad	101	CD4	O2-C15-C28-O5
18	ae	102	CD4	O13-C32-C33-O16
12	L	308	LMT	C2B-C1B-O1B-C4'
14	bb	102	0V9	C31-C32-C33-C34
12	AA	1003	LMT	C11-C10-C9-C8
12	AA	1003	LMT	O1'-C1-C2-C3
13	AT	103	V7N	O42-C34-C9-C8
13	bc	101	V7N	O42-C34-C9-C8
12	BL	1006	LMT	O5B-C1B-O1B-C4'
14	aj	101	0V9	O2-C2-C3-O3
18	ag	101	CD4	O2-C15-C16-O3
12	AN	101	LMT	C1-C2-C3-C4
12	AT	102	LMT	C3-C4-C5-C6
12	BT	1003	LMT	O1'-C1-C2-C3
12	AL	101	LMT	C4-C5-C6-C7
14	bk	1003	0V9	C40-C41-C42-C43
18	ae	102	CD4	C39-C40-C41-C42
12	BB	104	LMT	O5'-C1'-O1'-C1
12	BV	1004	LMT	O5'-C1'-O1'-C1
12	BW	1003	LMT	O5'-C1'-O1'-C1
11	AS	102	BCL	C8-C10-C11-C12
11	bh	102	BCL	C10-C11-C12-C13
12	L	308	LMT	O5B-C1B-O1B-C4'
18	M	409	CD4	C51-C52-C53-C54
11	AB	105	BCL	C11-C12-C13-C14
11	AK	103	BCL	C6-C7-C8-C9
11	BQ	1002	BCL	C11-C10-C8-C9
11	M	406	BCL	C11-C10-C8-C9
11	ae	101	BCL	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
11	ai	101	BCL	C11-C12-C13-C14
11	AM	102	BCL	C15-C16-C17-C18
18	ad	101	CD4	C30-C31-O10-P2
12	BA	104	LMT	O5B-C1B-O1B-C4'
11	bh	102	BCL	C2A-CAA-CBA-CGA
11	bi	106	BCL	C2A-CAA-CBA-CGA
11	AA	1002	BCL	C3-C5-C6-C7
11	aj	102	BCL	C5-C6-C7-C8
12	BP	1003	LMT	O1'-C1-C2-C3
11	AV	102	BCL	C4C-C3C-CAC-CBC
13	AW	104	V7N	C3-C4-C5-C6
13	BB	101	V7N	C3-C4-C5-C6
13	BC	101	V7N	C3-C4-C5-C6
13	BQ	1001	V7N	C3-C4-C5-C6
13	bj	101	V7N	C3-C4-C5-C6
11	AF	102	BCL	C8-C10-C11-C12
14	bb	102	0V9	C30-C31-C32-C33
11	AU	101	BCL	C5-C6-C7-C8
12	BA	102	LMT	C5'-C4'-O1B-C1B
12	BU	1002	LMT	O1'-C1-C2-C3
14	bl	103	0V9	O3P-C1-C2-C3
18	M	402	CD4	O13-C32-C33-C34
18	ag	101	CD4	C16-C15-C28-O5
11	AA	1002	BCL	C2-C3-C5-C6
11	AG	102	BCL	C6-C7-C8-C10
11	BE	103	BCL	C6-C7-C8-C10
11	BN	1004	BCL	C11-C10-C8-C7
11	BP	1002	BCL	C6-C7-C8-C10
11	BQ	1002	BCL	C11-C10-C8-C7
11	ao	102	BCL	C12-C13-C15-C16
11	bg	1002	BCL	C6-C7-C8-C10
11	bh	102	BCL	C11-C10-C8-C7
14	bd	104	0V9	C16-C17-C18-C19
14	bf	104	0V9	C16-C17-C18-C19
14	bp	103	0V9	C16-C17-C18-C19
12	AH	105	LMT	C2-C3-C4-C5
18	M	409	CD4	C48-C49-C50-C51
13	BL	1001	V7N	C27-C28-C29-C39
13	BQ	1001	V7N	C27-C28-C29-C39
14	aj	101	0V9	C15-C16-C17-C18
14	bn	102	0V9	C30-C31-C32-C33
12	AP	103	LMT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
12	BA	105	LMT	O5B-C5B-C6B-O6B
12	AE	104	LMT	C6-C7-C8-C9
11	AI	103	BCL	C3-C5-C6-C7
11	AQ	101	BCL	O1A-CGA-O2A-C1
11	AA	1001	BCL	C13-C15-C16-C17
11	M	406	BCL	C5-C6-C7-C8
11	AL	103	BCL	CBA-CGA-O2A-C1
11	AQ	101	BCL	CBA-CGA-O2A-C1
12	AL	104	LMT	C5'-C4'-O1B-C1B
12	bg	1001	LMT	C4'-C5'-C6'-O6'
14	bm	104	0V9	C31-C32-C33-C34
15	C	402	HEC	C3D-CAD-CBD-CGD
18	M	409	CD4	C9-C10-C11-C12
11	AQ	101	BCL	CAD-CBD-CGD-O2D
11	BW	1002	BCL	C8-C10-C11-C12
12	BI	101	LMT	C4-C5-C6-C7
12	BK	1002	LMT	O5'-C1'-O1'-C1
12	bo	103	LMT	O5'-C1'-O1'-C1
12	AT	102	LMT	C3'-C4'-O1B-C1B
14	aj	101	0V9	C1-C2-C3-O3
14	bk	1003	0V9	C1-C2-C3-O3
14	bo	104	0V9	C1-C2-C3-O3
25	ai	102	UYH	O1-C7-C8-C9
14	AJ	104	0V9	O3P-C1-C2-O2
14	bl	103	0V9	O3P-C1-C2-O2
14	bp	103	0V9	O3P-C1-C2-O2
18	M	402	CD4	O2-C15-C28-O5
18	M	402	CD4	O13-C32-C33-O16
18	M	409	CD4	O2-C15-C28-O5
11	AG	102	BCL	CHA-CBD-CGD-O2D
11	AM	101	BCL	CHA-CBD-CGD-O2D
18	M	409	CD4	O2-C15-C16-O3
25	ai	102	UYH	O1-C7-C8-O7
11	AL	103	BCL	O1A-CGA-O2A-C1
14	AJ	104	0V9	C14-C15-C16-C17
11	AQ	101	BCL	C15-C16-C17-C18
11	AA	1002	BCL	C4-C3-C5-C6
11	AE	102	BCL	C4-C3-C5-C6
12	AH	105	LMT	C4B-C5B-C6B-O6B
12	AT	104	LMT	C4'-C5'-C6'-O6'
12	AR	103	LMT	O5B-C1B-O1B-C4'
14	bi	103	0V9	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
11	BE	103	BCL	C5-C6-C7-C8
11	AV	101	BCL	C6-C7-C8-C9
11	bh	102	BCL	C11-C10-C8-C9
14	bc	103	0V9	C2-C3-O3-C30
24	af	101	V7B	C8-C9-O8-C28
12	BB	102	LMT	C4-C5-C6-C7
14	be	104	0V9	C11-C12-C13-C14
12	BA	104	LMT	C4-C5-C6-C7
11	AK	103	BCL	C8-C10-C11-C12
11	bp	104	BCL	C8-C10-C11-C12
24	ag	103	V7B	C18-C19-C20-C21
12	bi	104	LMT	O5'-C5'-C6'-O6'
11	an	1001	BCL	C2A-CAA-CBA-CGA
11	bl	104	BCL	C2A-CAA-CBA-CGA
12	bk	1001	LMT	C3-C4-C5-C6
14	bb	104	0V9	C32-C33-C34-C35
13	BK	1001	V7N	C3-C4-C5-C33
13	af	103	V7N	C38-C26-C27-C28
12	BD	104	LMT	O1'-C1-C2-C3
12	L	307	LMT	C4-C5-C6-C7
13	AE	105	V7N	C3-C4-C5-C6
13	AT	103	V7N	C25-C26-C27-C28
13	BE	101	V7N	C3-C4-C5-C6
13	BP	1001	V7N	C3-C4-C5-C6
13	af	103	V7N	C25-C26-C27-C28
12	BT	1003	LMT	C5'-C4'-O1B-C1B
12	bm	102	LMT	C3-C4-C5-C6
11	AA	1002	BCL	C1A-C2A-CAA-CBA
11	AN	102	BCL	C1A-C2A-CAA-CBA
11	AN	105	BCL	C1A-C2A-CAA-CBA
11	BB	105	BCL	C1A-C2A-CAA-CBA
11	BF	102	BCL	C1A-C2A-CAA-CBA
11	BV	1002	BCL	C1A-C2A-CAA-CBA
11	bd	103	BCL	C1A-C2A-CAA-CBA
11	be	105	BCL	C1A-C2A-CAA-CBA
11	bg	1002	BCL	C1A-C2A-CAA-CBA
11	bi	106	BCL	C1A-C2A-CAA-CBA
11	bj	104	BCL	C1A-C2A-CAA-CBA
11	AA	1002	BCL	C10-C11-C12-C13
11	AE	102	BCL	C15-C16-C17-C18
11	BI	102	BCL	C15-C16-C17-C18
12	BE	102	LMT	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
11	ad	102	BCL	C2-C1-O2A-CGA
11	aj	102	BCL	C2-C1-O2A-CGA
11	bh	102	BCL	C2-C1-O2A-CGA
11	AI	103	BCL	C8-C10-C11-C12
14	bk	1003	0V9	C1-O3P-P-O4P
14	bl	103	0V9	C1-O3P-P-O4P
18	M	409	CD4	C31-O10-P2-O13
19	H1	1003	PGW	C04-O12-P-O11
12	bp	102	LMT	C7-C8-C9-C10
12	AE	104	LMT	O5B-C5B-C6B-O6B
12	BH	1005	LMT	O5B-C5B-C6B-O6B
11	bf	103	BCL	C4-C3-C5-C6
11	bn	104	BCL	C4-C3-C5-C6
11	ao	102	BCL	C3-C5-C6-C7
14	bd	104	0V9	C2-C1-O3P-P
14	bf	104	0V9	C2-C1-O3P-P
18	M	409	CD4	C30-C31-O10-P2
18	ad	101	CD4	C33-C32-O13-P2
18	ag	101	CD4	C30-C29-O8-P1
14	AJ	104	0V9	C1-O3P-P-O2P
14	bi	103	0V9	C4-O4P-P-O2P
14	bi	105	0V9	C1-O3P-P-O1P
14	bj	103	0V9	C1-O3P-P-O2P
14	bk	1003	0V9	C4-O4P-P-O2P
14	bl	103	0V9	C1-O3P-P-O1P
14	bm	104	0V9	C4-O4P-P-O1P
14	bp	103	0V9	C4-O4P-P-O2P
19	H1	1003	PGW	C04-O12-P-O13
19	H1	1003	PGW	C04-O12-P-O14
12	AR	103	LMT	O5'-C1'-O1'-C1
11	AP	102	BCL	C8-C10-C11-C12
14	bc	103	0V9	O3P-C1-C2-C3
14	bi	105	0V9	O3P-C1-C2-C3
12	BC	102	LMT	C4-C5-C6-C7
14	bj	103	0V9	O3-C30-C31-C32
13	BS	1001	V7N	C23-C24-C25-C26
12	AH	103	LMT	C7-C8-C9-C10
11	AF	101	BCL	CAD-CBD-CGD-O1D
14	AJ	104	0V9	C5-C4-O4P-P
14	AQ	105	0V9	C5-C4-O4P-P
14	H1	1002	0V9	C5-C4-O4P-P
14	L	310	0V9	C5-C4-O4P-P

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Mol	Chain	Res	Type	Atoms
14	bb	102	0V9	C5-C4-O4P-P
14	bi	105	0V9	C5-C4-O4P-P
14	bl	103	0V9	C5-C4-O4P-P
14	bn	102	0V9	C5-C4-O4P-P
14	bp	103	0V9	C5-C4-O4P-P
11	AN	105	BCL	CAA-CBA-CGA-O2A
12	AW	102	LMT	C1-C2-C3-C4
18	H1	1001	CD4	C54-C55-C56-C57
12	AT	102	LMT	C2-C3-C4-C5
12	BB	103	LMT	C7-C8-C9-C10
12	BN	1003	LMT	O1'-C1-C2-C3
24	ag	103	V7B	C28-C29-C30-C31
12	BK	1004	LMT	C9-C10-C11-C12
11	AB	105	BCL	C4-C3-C5-C6
11	AB	102	BCL	C3A-C2A-CAA-CBA
11	AH	102	BCL	C11-C12-C13-C15
11	AV	101	BCL	C6-C7-C8-C10
11	BF	102	BCL	C11-C10-C8-C7
11	BG	1003	BCL	C11-C10-C8-C7
11	BH	1004	BCL	C3A-C2A-CAA-CBA
11	BN	1004	BCL	C3A-C2A-CAA-CBA
11	BP	1002	BCL	C11-C12-C13-C15
11	BQ	1002	BCL	C3A-C2A-CAA-CBA
11	aa	1001	BCL	C6-C7-C8-C10
11	ak	101	BCL	C12-C13-C15-C16
11	bb	103	BCL	C11-C12-C13-C15
14	H1	1002	0V9	O3P-C1-C2-O2
12	BH	1005	LMT	C3-C4-C5-C6
11	ba	103	BCL	C10-C11-C12-C13
12	BL	1002	LMT	C2B-C1B-O1B-C4'
12	BT	1003	LMT	C2-C1-O1'-C1'
12	bk	1001	LMT	C2-C1-O1'-C1'
12	BI	103	LMT	C5'-C4'-O1B-C1B
12	BJ	1002	LMT	C4'-C5'-C6'-O6'
12	BU	1003	LMT	C4-C5-C6-C7
12	BM	1002	LMT	O5B-C5B-C6B-O6B
12	AN	101	LMT	C4-C5-C6-C7
12	bo	103	LMT	C2-C3-C4-C5
14	bc	103	0V9	C1-C2-C3-O3
14	bf	104	0V9	C1-C2-C3-O3
14	H1	1002	0V9	O2-C2-C3-O3
18	ae	102	CD4	O2-C15-C16-O3

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Mol	Chain	Res	Type	Atoms
24	af	101	V7B	O1-C7-C8-O7
24	ag	103	V7B	O1-C7-C8-O7
12	BD	105	LMT	C4-C5-C6-C7
12	bg	1001	LMT	C7-C8-C9-C10
11	BM	1004	BCL	O2A-C1-C2-C3
12	BS	1002	LMT	C4-C5-C6-C7
18	H1	1001	CD4	C33-C32-O13-P2
21	L	309	BPH	C4-C3-C5-C6
12	AJ	103	LMT	O5B-C1B-O1B-C4'
11	AN	103	BCL	C14-C13-C15-C16
11	AP	102	BCL	C6-C7-C8-C9
11	BE	103	BCL	C6-C7-C8-C9
11	BP	1002	BCL	C11-C12-C13-C14
11	ai	101	BCL	C14-C13-C15-C16
11	am	1001	BCL	C6-C7-C8-C9
11	bd	103	BCL	C11-C10-C8-C9
14	be	104	0V9	C31-C32-C33-C34
12	BA	101	LMT	C6-C7-C8-C9
12	BD	101	LMT	C3'-C4'-O1B-C1B
18	M	402	CD4	C17-C18-C19-C20
12	BX	102	LMT	C4'-C5'-C6'-O6'
12	BH	1003	LMT	C9-C10-C11-C12
13	bl	101	V7N	C3-C4-C5-C33
12	BP	1003	LMT	C2B-C1B-O1B-C4'
12	bf	102	LMT	C2B-C1B-O1B-C4'
11	bh	102	BCL	C15-C16-C17-C18
12	AT	104	LMT	C4-C5-C6-C7
12	bp	102	LMT	C5-C6-C7-C8
12	AG	103	LMT	O5B-C5B-C6B-O6B
12	BU	1004	LMT	O1'-C1-C2-C3
11	AB	105	BCL	C15-C16-C17-C18
11	ad	102	BCL	C5-C6-C7-C8
11	AD	101	BCL	C16-C17-C18-C19
12	BD	104	LMT	O5B-C1B-O1B-C4'
12	AN	101	LMT	O5B-C5B-C6B-O6B
12	BN	1003	LMT	O5B-C5B-C6B-O6B
14	bi	105	0V9	C2-C3-O3-C30
18	M	409	CD4	C46-C47-C48-C49
14	bk	1003	0V9	C1-C2-O2-C10
18	H1	1001	CD4	C28-C15-O2-C14
18	M	409	CD4	C28-C15-O2-C14
18	M	409	CD4	C16-C15-C28-O5

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Mol	Chain	Res	Type	Atoms
11	bj	104	BCL	C2A-CAA-CBA-CGA
12	H2	201	LMT	C6-C7-C8-C9
11	BP	1002	BCL	C2-C1-O2A-CGA
14	AJ	104	0V9	O3-C30-C31-C32
11	AV	102	BCL	C5-C6-C7-C8
12	BM	1002	LMT	O1'-C1-C2-C3
12	AV	103	LMT	C5'-C4'-O1B-C1B
14	AQ	105	0V9	C16-C17-C18-C19
12	AQ	103	LMT	C7-C8-C9-C10
11	AV	104	BCL	O1A-CGA-O2A-C1
14	AQ	105	0V9	O3P-C1-C2-O2
12	BV	1005	LMT	O1'-C1-C2-C3
19	H1	1003	PGW	C2-C3-C4-C5
11	AB	105	BCL	C2-C3-C5-C6
11	AE	102	BCL	C2-C3-C5-C6
12	BF	101	LMT	C4-C5-C6-C7
12	BF	103	LMT	O5B-C1B-O1B-C4'
12	BV	1003	LMT	O1'-C1-C2-C3
14	bc	103	0V9	C36-C37-C38-C39
11	am	1001	BCL	C13-C15-C16-C17
11	ao	102	BCL	C10-C11-C12-C13
12	BX	102	LMT	C2B-C1B-O1B-C4'
12	BR	101	LMT	C4-C5-C6-C7
12	bn	103	LMT	O5B-C5B-C6B-O6B
12	BA	105	LMT	O5'-C1'-O1'-C1
12	BL	1004	LMT	O5'-C1'-O1'-C1
14	bd	104	0V9	C11-C12-C13-C14
18	H1	1001	CD4	C22-C23-C24-C25
11	BH	1004	BCL	C2A-CAA-CBA-CGA
11	bg	1002	BCL	C2A-CAA-CBA-CGA
12	AQ	103	LMT	C2'-C1'-O1'-C1
12	ac	1001	LMT	O5B-C1B-O1B-C4'
12	ac	1001	LMT	C2B-C1B-O1B-C4'
14	bn	102	0V9	O2-C2-C3-O3
18	M	402	CD4	O2-C15-C16-O3
11	bc	104	BCL	C5-C6-C7-C8
12	BJ	1003	LMT	C5-C6-C7-C8
14	bj	103	0V9	C34-C35-C36-C37
14	H1	1002	0V9	C4-O4P-P-O3P
14	L	310	0V9	C1-O3P-P-O4P
14	bb	102	0V9	C4-O4P-P-O3P
14	bb	104	0V9	C1-O3P-P-O4P

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Mol	Chain	Res	Type	Atoms
14	bc	103	0V9	C1-O3P-P-O4P
14	be	104	0V9	C1-O3P-P-O4P
14	bi	105	0V9	C1-O3P-P-O4P
18	ae	102	CD4	C31-O10-P2-O13
14	H1	1002	0V9	C10-C11-C12-C13
11	BO	1005	BCL	C8-C10-C11-C12
23	M	405	CRT	C36-C37-C38-C39
23	M	405	CRT	C36-C37-C38-C40
12	BF	104	LMT	C5'-C4'-O1B-C1B
14	bm	104	0V9	C2-C3-O3-C30
14	AJ	104	0V9	C31-C32-C33-C34
12	BE	102	LMT	C2B-C1B-O1B-C4'
14	bn	102	0V9	C1-C2-C3-O3
24	af	101	V7B	O1-C7-C8-C9
12	AL	104	LMT	O1'-C1-C2-C3
12	BO	1003	LMT	C4-C5-C6-C7
11	AK	103	BCL	C5-C6-C7-C8
11	AV	104	BCL	C11-C12-C13-C15
11	BI	102	BCL	C11-C12-C13-C15
11	ae	101	BCL	C11-C10-C8-C7
12	AE	104	LMT	C7-C8-C9-C10
12	bo	103	LMT	O1'-C1-C2-C3
11	BF	102	BCL	C11-C10-C8-C9
11	ak	101	BCL	C14-C13-C15-C16
11	bb	103	BCL	C11-C12-C13-C14
13	bj	101	V7N	C27-C28-C29-C39
13	AB	101	V7N	C23-C24-C25-C26
12	bb	105	LMT	C11-C10-C9-C8
13	bp	101	V7N	O32-C1-C2-C3
12	BS	1002	LMT	C4'-C5'-C6'-O6'
12	BS	1003	LMT	C9-C10-C11-C12
12	L	301	LMT	O1'-C1-C2-C3
12	BR	101	LMT	C5'-C4'-O1B-C1B
14	be	104	0V9	C33-C34-C35-C36
12	BD	101	LMT	C2B-C1B-O1B-C4'
11	AW	101	BCL	C8-C10-C11-C12
19	H1	1003	PGW	C3-C4-C5-C6
13	BJ	1001	V7N	C23-C24-C25-C26
13	BM	1001	V7N	C23-C24-C25-C26
12	BI	103	LMT	O5'-C5'-C6'-O6'
14	bf	104	0V9	C15-C16-C17-C18
18	H1	1001	CD4	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
19	H1	1003	PGW	C4-C5-C6-C7
12	AK	101	LMT	C4-C5-C6-C7
12	BA	102	LMT	C3'-C4'-O1B-C1B
11	bb	103	BCL	C10-C11-C12-C13
12	L	306	LMT	O5'-C1'-O1'-C1
11	AH	102	BCL	C8-C10-C11-C12
13	BB	101	V7N	C27-C28-C29-C39
12	BV	1003	LMT	C5-C6-C7-C8
11	AG	102	BCL	C3-C5-C6-C7
12	AV	103	LMT	O5B-C1B-O1B-C4'
11	AD	101	BCL	C4-C3-C5-C6
11	BU	1001	BCL	C4-C3-C5-C6
11	AQ	102	BCL	C8-C10-C11-C12
12	BS	1004	LMT	C4-C5-C6-C7
11	AD	101	BCL	C2-C3-C5-C6
12	be	103	LMT	O1'-C1-C2-C3
11	AJ	102	BCL	C8-C10-C11-C12
11	BL	1005	BCL	C5-C6-C7-C8
11	L	304	BCL	C2-C1-O2A-CGA
11	bn	104	BCL	C2-C1-O2A-CGA
12	BW	1003	LMT	C5'-C4'-O1B-C1B
12	BH	1003	LMT	C2B-C1B-O1B-C4'
12	bb	105	LMT	C7-C8-C9-C10
12	BF	103	LMT	C1-C2-C3-C4
12	AH	105	LMT	C2'-C1'-O1'-C1
11	BJ	1004	BCL	C2A-CAA-CBA-CGA
11	bm	103	BCL	C2A-CAA-CBA-CGA
11	AB	103	BCL	C8-C10-C11-C12
18	H1	1001	CD4	C44-C45-C63-C64
11	BP	1002	BCL	C3A-C2A-CAA-CBA
11	BT	1002	BCL	C3A-C2A-CAA-CBA
11	BV	1002	BCL	C3A-C2A-CAA-CBA
11	be	105	BCL	C3A-C2A-CAA-CBA
11	bl	104	BCL	C3A-C2A-CAA-CBA
11	bm	103	BCL	C3A-C2A-CAA-CBA
12	AA	1003	LMT	C5'-C4'-O1B-C1B
14	bn	102	0V9	C33-C34-C35-C36
12	BG	1002	LMT	O5B-C5B-C6B-O6B
12	AL	101	LMT	C7-C8-C9-C10
12	M	408	LMT	C5-C6-C7-C8
14	bo	104	0V9	C31-C32-C33-C34
18	M	402	CD4	C9-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
12	AM	103	LMT	C11-C10-C9-C8
11	AB	102	BCL	C14-C13-C15-C16
11	AB	105	BCL	C6-C7-C8-C9
11	AE	102	BCL	C11-C12-C13-C14
11	AH	102	BCL	C11-C12-C13-C14
11	AN	105	BCL	C11-C10-C8-C9
11	AQ	102	BCL	C11-C12-C13-C14
11	AR	102	BCL	C6-C7-C8-C9
11	BF	102	BCL	C11-C12-C13-C14
11	BG	1003	BCL	C6-C7-C8-C9
11	BI	102	BCL	C11-C12-C13-C14
11	BS	1006	BCL	C6-C7-C8-C9
11	BT	1002	BCL	C6-C7-C8-C9
11	BW	1002	BCL	C14-C13-C15-C16
11	ab	101	BCL	C14-C13-C15-C16
11	ad	102	BCL	C11-C12-C13-C14
24	ag	103	V7B	C37-C38-C39-C41
12	BO	1004	LMT	C5-C6-C7-C8
25	ai	102	UYH	C31-C32-C33-C34
13	AE	105	V7N	C23-C24-C25-C26
12	BT	1005	LMT	C5'-C4'-O1B-C1B
11	BI	102	BCL	C2A-CAA-CBA-CGA
11	BK	1005	BCL	C2A-CAA-CBA-CGA
12	AN	101	LMT	C11-C10-C9-C8
11	BQ	1002	BCL	O2A-C1-C2-C3
11	ai	101	BCL	O2A-C1-C2-C3
11	am	1001	BCL	O2A-C1-C2-C3
11	bc	104	BCL	O2A-C1-C2-C3
11	bi	106	BCL	O2A-C1-C2-C3
12	AB	104	LMT	O5'-C1'-O1'-C1
12	BR	104	LMT	O5'-C1'-O1'-C1
12	bi	104	LMT	C5'-C4'-O1B-C1B
12	BM	1005	LMT	C5'-C4'-O1B-C1B
12	be	103	LMT	C5-C6-C7-C8
12	bk	1001	LMT	C4-C5-C6-C7
12	BF	101	LMT	C2B-C1B-O1B-C4'
14	H1	1002	0V9	C19-C20-C21-C22
12	BF	104	LMT	O5B-C1B-O1B-C4'
19	H1	1003	PGW	C03-C02-O01-C1
11	ak	101	BCL	C8-C10-C11-C12
11	BG	1003	BCL	C4-C3-C5-C6
20	L	302	MQ8	C39-C38-C40-C41

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Mol	Chain	Res	Type	Atoms
12	BK	1004	LMT	O5B-C1B-O1B-C4'
11	BI	102	BCL	C1A-C2A-CAA-CBA
11	BJ	1004	BCL	C1A-C2A-CAA-CBA
11	bb	103	BCL	C1A-C2A-CAA-CBA
11	bm	103	BCL	C1A-C2A-CAA-CBA
11	bo	105	BCL	C1A-C2A-CAA-CBA
12	AJ	103	LMT	C6-C7-C8-C9
12	bm	102	LMT	C5-C6-C7-C8
11	AD	101	BCL	C11-C12-C13-C15
11	AF	101	BCL	C12-C13-C15-C16
11	AR	102	BCL	C11-C12-C13-C15
11	BT	1002	BCL	C11-C10-C8-C7
11	ak	101	BCL	C6-C7-C8-C10
11	ak	101	BCL	C11-C10-C8-C7
11	bg	1002	BCL	C11-C12-C13-C15
11	bh	102	BCL	C12-C13-C15-C16
11	bm	103	BCL	C11-C12-C13-C15
21	M	404	BPH	C11-C10-C8-C7
18	M	402	CD4	C21-C22-C23-C24
24	ag	103	V7B	C17-C18-C19-C20
14	aj	101	0V9	C16-C17-C18-C19
12	be	101	LMT	C11-C10-C9-C8
12	be	103	LMT	C4-C5-C6-C7
13	BC	101	V7N	C27-C28-C29-C39
12	BJ	1002	LMT	C9-C10-C11-C12
11	bm	103	BCL	C5-C6-C7-C8
25	ai	102	UYH	C16-C17-C18-C19
18	M	409	CD4	C33-C32-O13-P2
11	BQ	1002	BCL	C2A-CAA-CBA-CGA
11	BS	1006	BCL	C2A-CAA-CBA-CGA
11	AP	102	BCL	C15-C16-C17-C18
11	L	303	BCL	C15-C16-C17-C18
12	BX	101	LMT	C4-C5-C6-C7
14	be	104	0V9	C10-C11-C12-C13
18	ae	102	CD4	C25-C26-C27-C60
11	BF	102	BCL	C8-C10-C11-C12
11	BI	102	BCL	C13-C15-C16-C17
12	AN	101	LMT	C5'-C4'-O1B-C1B
14	bo	104	0V9	C15-C16-C17-C18
14	bj	103	0V9	C18-C19-C20-C21
12	BS	1002	LMT	C5'-C4'-O1B-C1B
12	BV	1003	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
18	M	409	CD4	C43-C44-C45-C63
11	M	403	BCL	C13-C15-C16-C17
15	C	402	HEC	CAD-CBD-CGD-O2D
12	BG	1005	LMT	C7-C8-C9-C10
14	H1	1002	0V9	C32-C33-C34-C35
25	ai	102	UYH	C36-C37-C38-C39
11	BF	102	BCL	C4-C3-C5-C6
11	BX	103	BCL	C4-C3-C5-C6
11	bh	102	BCL	C4-C3-C5-C6
11	bp	104	BCL	C4-C3-C5-C6
19	H1	1003	PGW	C06-C07-C08-C09
20	M	407	MQ8	C37-C38-C40-C41
15	C	402	HEC	CAD-CBD-CGD-O1D
11	AK	103	BCL	C13-C15-C16-C17
11	bd	103	BCL	C13-C15-C16-C17
12	BR	101	LMT	C2B-C1B-O1B-C4'
12	bg	1001	LMT	C1-C2-C3-C4
11	bd	103	BCL	C3-C5-C6-C7
12	BD	104	LMT	C5'-C4'-O1B-C1B
11	ab	101	BCL	CBA-CGA-O2A-C1
13	AE	105	V7N	C27-C28-C29-C39
12	BO	1003	LMT	O5B-C1B-O1B-C4'
12	bj	102	LMT	C7-C8-C9-C10
13	BO	1001	V7N	C22-C23-C24-C25
20	ao	101	MQ8	C33-C35-C36-C37
12	AV	103	LMT	C4-C5-C6-C7
12	bb	105	LMT	C5-C6-C7-C8
12	BU	1003	LMT	O5B-C1B-O1B-C4'
18	ag	101	CD4	C6-C7-C8-C9
11	BX	103	BCL	C2-C3-C5-C6
11	bp	104	BCL	C2-C3-C5-C6
11	aa	1001	BCL	C6-C7-C8-C9
12	BS	1004	LMT	C2B-C1B-O1B-C4'
14	bo	104	0V9	C11-C12-C13-C14
18	ad	101	CD4	C7-C8-C9-C10
15	C	401	HEC	CAA-CBA-CGA-O2A
13	BL	1001	V7N	C23-C24-C25-C26
24	af	101	V7B	O8-C28-C29-C30
12	AN	101	LMT	C6-C7-C8-C9
12	BT	1004	LMT	C4-C5-C6-C7
11	AG	102	BCL	C2A-CAA-CBA-CGA
11	ap	1001	BCL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
12	BS	1005	LMT	C6-C7-C8-C9
12	bb	105	LMT	C2-C3-C4-C5
11	AF	102	BCL	C10-C11-C12-C13
11	M	403	BCL	CAA-CBA-CGA-O2A
14	bm	104	0V9	C18-C19-C20-C21
11	aa	1001	BCL	C5-C6-C7-C8
13	BB	101	V7N	C9-C10-C11-C12
11	AN	102	BCL	C4-C3-C5-C6
11	aj	102	BCL	C4-C3-C5-C6
13	BQ	1001	V7N	C37-C22-C23-C24
11	AU	101	BCL	C4C-C3C-CAC-CBC
11	BI	102	BCL	C4C-C3C-CAC-CBC
11	BL	1005	BCL	C4C-C3C-CAC-CBC
11	BR	102	BCL	C4C-C3C-CAC-CBC
13	AT	103	V7N	C3-C4-C5-C6
11	BU	1001	BCL	C2-C3-C5-C6
11	bn	104	BCL	C2-C3-C5-C6
20	L	302	MQ8	C37-C38-C40-C41
15	C	404	HEC	CAD-CBD-CGD-O2D
11	BT	1002	BCL	C10-C11-C12-C13
12	BM	1002	LMT	C5'-C4'-O1B-C1B
12	BT	1003	LMT	C3'-C4'-O1B-C1B
14	bi	103	0V9	C22-C23-C24-C25
12	AJ	103	LMT	C2B-C1B-O1B-C4'
14	bf	104	0V9	C22-C23-C24-C25
18	H1	1001	CD4	C48-C49-C50-C51
14	bb	102	0V9	C18-C19-C20-C21
11	AP	101	BCL	C15-C16-C17-C18
21	M	404	BPH	C10-C11-C12-C13
11	ab	101	BCL	C2A-CAA-CBA-CGA
12	AK	101	LMT	C4'-C5'-C6'-O6'
12	AL	104	LMT	C3'-C4'-O1B-C1B
14	bc	103	0V9	C30-C31-C32-C33
12	AE	104	LMT	O5'-C1'-O1'-C1
12	BA	104	LMT	C2B-C1B-O1B-C4'
12	BF	101	LMT	C5'-C4'-O1B-C1B
12	BL	1003	LMT	O1'-C1-C2-C3
18	H1	1001	CD4	C16-C15-C28-O5
11	BJ	1004	BCL	C4-C3-C5-C6
11	ad	102	BCL	C4-C3-C5-C6
20	ao	101	MQ8	C28-C30-C31-C32
11	AE	103	BCL	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
11	AR	102	BCL	C6-C7-C8-C10
11	AV	104	BCL	C11-C10-C8-C7
11	BG	1003	BCL	C2-C3-C5-C6
11	M	406	BCL	C11-C10-C8-C7
11	ai	101	BCL	C11-C12-C13-C15
11	bf	103	BCL	C2-C3-C5-C6
11	bh	102	BCL	C2-C3-C5-C6
11	bh	102	BCL	C6-C7-C8-C10
21	L	309	BPH	C2-C3-C5-C6
11	AG	101	BCL	C15-C16-C17-C18
11	AQ	101	BCL	CAA-CBA-CGA-O2A
12	BL	1004	LMT	C2'-C1'-O1'-C1
12	bo	103	LMT	C1-C2-C3-C4
18	M	409	CD4	C29-C30-C31-O10
14	H1	1002	0V9	C12-C13-C14-C15
14	AQ	105	0V9	O2-C2-C3-O3
12	bd	102	LMT	C7-C8-C9-C10
18	M	409	CD4	O3-C17-C18-C19
12	BG	1002	LMT	C6-C7-C8-C9
14	AJ	104	0V9	C36-C37-C38-C39
12	BH	1002	LMT	O5B-C1B-O1B-C4'
12	AL	104	LMT	C4B-C5B-C6B-O6B
11	AR	101	BCL	C5-C6-C7-C8
11	BW	1002	BCL	C10-C11-C12-C13
12	BI	101	LMT	C4B-C5B-C6B-O6B
14	bk	1003	0V9	C18-C19-C20-C21
12	BO	1003	LMT	C5'-C4'-O1B-C1B
14	bn	102	0V9	C32-C33-C34-C35
11	AV	104	BCL	CAA-CBA-CGA-O2A
11	AP	102	BCL	C4-C3-C5-C6
11	bo	105	BCL	C4-C3-C5-C6
13	bh	101	V7N	C37-C22-C23-C24
13	bo	102	V7N	C37-C22-C23-C24
15	C	402	HEC	CAA-CBA-CGA-O1A
11	ae	101	BCL	CAA-CBA-CGA-O2A
19	H1	1003	PGW	O01-C1-C2-C3
12	BF	103	LMT	C5'-C4'-O1B-C1B
11	AR	102	BCL	C11-C12-C13-C14
11	AS	102	BCL	C6-C7-C8-C9
11	AV	104	BCL	C11-C12-C13-C14
11	BG	1003	BCL	C11-C10-C8-C9
11	ak	101	BCL	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
11	bb	103	BCL	C14-C13-C15-C16
11	bh	102	BCL	C14-C13-C15-C16
12	BP	1005	LMT	C5'-C4'-O1B-C1B
15	C	401	HEC	CAA-CBA-CGA-O1A
12	BI	103	LMT	C3'-C4'-O1B-C1B
12	bo	103	LMT	C9-C10-C11-C12
14	bf	104	0V9	C35-C36-C37-C38
11	BF	102	BCL	C3A-C2A-CAA-CBA
11	BG	1003	BCL	C3A-C2A-CAA-CBA
11	BK	1005	BCL	C3A-C2A-CAA-CBA
11	bo	105	BCL	C3A-C2A-CAA-CBA
11	AE	102	BCL	CAA-CBA-CGA-O2A
18	ad	101	CD4	O3-C17-C18-C19
14	AJ	104	0V9	C18-C19-C20-C21
14	bc	103	0V9	C18-C19-C20-C21
11	AE	102	BCL	CAD-CBD-CGD-O2D
11	AN	105	BCL	CAD-CBD-CGD-O2D
11	AV	104	BCL	CAD-CBD-CGD-O2D
11	L	303	BCL	CAD-CBD-CGD-O2D
11	L	304	BCL	CAD-CBD-CGD-O2D
11	M	403	BCL	CAD-CBD-CGD-O2D
14	bn	102	0V9	C1-C2-O2-C10
14	bn	102	0V9	C3-C2-O2-C10
11	AE	102	BCL	C16-C17-C18-C19
12	BL	1006	LMT	C4-C5-C6-C7
11	BU	1001	BCL	C2A-CAA-CBA-CGA
18	H1	1001	CD4	O1-C14-O2-C15
12	BX	102	LMT	C5'-C4'-O1B-C1B
11	al	1001	BCL	C15-C16-C17-C18
11	bj	104	BCL	C10-C11-C12-C13
11	BR	102	BCL	CAA-CBA-CGA-O2A
18	ae	102	CD4	O3-C17-C18-C19
12	BD	105	LMT	C2B-C1B-O1B-C4'
14	bb	104	0V9	C31-C32-C33-C34
11	AV	104	BCL	C4-C3-C5-C6
11	BD	103	BCL	C4-C3-C5-C6
13	BB	101	V7N	C37-C22-C23-C24
13	af	103	V7N	C37-C22-C23-C24
20	L	302	MQ8	C19-C18-C20-C21
11	AE	102	BCL	C16-C17-C18-C20
12	AG	103	LMT	C5'-C4'-O1B-C1B
12	BR	104	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
11	BF	102	BCL	C2-C3-C5-C6
11	aj	102	BCL	C2-C3-C5-C6
13	BQ	1001	V7N	C21-C22-C23-C24
11	AD	101	BCL	CAA-CBA-CGA-O2A
11	AF	101	BCL	CAA-CBA-CGA-O2A
11	AI	101	BCL	CAA-CBA-CGA-O2A
11	AM	101	BCL	CAA-CBA-CGA-O2A
18	H1	1001	CD4	O3-C17-C18-C19
18	ad	101	CD4	C4-C5-C6-C7
13	BK	1001	V7N	C3-C4-C5-C6
13	af	103	V7N	C3-C4-C5-C6
13	bl	101	V7N	C3-C4-C5-C6
20	L	302	MQ8	C43-C44-C46-C47
14	bn	102	0V9	C18-C19-C20-C21
12	bc	102	LMT	C4-C5-C6-C7
14	L	310	0V9	C36-C37-C38-C39
25	ai	102	UYH	C22-C23-C24-C25
24	ag	103	V7B	O1-C7-C8-C9
12	BF	104	LMT	C3'-C4'-O1B-C1B
13	BG	1001	V7N	C23-C24-C25-C26
11	AH	102	BCL	CAA-CBA-CGA-O2A
14	L	310	0V9	O3-C30-C31-C32
12	BR	103	LMT	C5'-C4'-O1B-C1B
11	BP	1002	BCL	O2A-C1-C2-C3
11	ac	1002	BCL	O2A-C1-C2-C3
11	an	1001	BCL	O2A-C1-C2-C3
11	bj	104	BCL	O2A-C1-C2-C3
11	bk	1002	BCL	O2A-C1-C2-C3
11	bm	103	BCL	O2A-C1-C2-C3
12	BI	103	LMT	C2B-C1B-O1B-C4'
12	BL	1006	LMT	C2B-C1B-O1B-C4'
12	BS	1002	LMT	C2B-C1B-O1B-C4'
18	ad	101	CD4	C5-C6-C7-C8
14	bd	104	0V9	C35-C36-C37-C38
15	C	404	HEC	CAD-CBD-CGD-O1D
12	BJ	1002	LMT	O5B-C5B-C6B-O6B
12	be	103	LMT	O5'-C5'-C6'-O6'
11	AA	1002	BCL	CHA-CBD-CGD-O1D
11	AA	1002	BCL	CHA-CBD-CGD-O2D
11	AD	101	BCL	CHA-CBD-CGD-O1D
11	AD	101	BCL	CHA-CBD-CGD-O2D
11	AJ	101	BCL	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
11	AJ	101	BCL	CHA-CBD-CGD-O2D
11	AN	103	BCL	CHA-CBD-CGD-O1D
11	AN	103	BCL	CHA-CBD-CGD-O2D
11	AS	102	BCL	CHA-CBD-CGD-O2D
11	AT	101	BCL	CHA-CBD-CGD-O2D
11	BB	105	BCL	CHA-CBD-CGD-O1D
11	BB	105	BCL	CHA-CBD-CGD-O2D
11	BC	105	BCL	CHA-CBD-CGD-O1D
11	BC	105	BCL	CHA-CBD-CGD-O2D
11	BF	102	BCL	CHA-CBD-CGD-O1D
11	BF	102	BCL	CHA-CBD-CGD-O2D
11	BG	1003	BCL	CHA-CBD-CGD-O1D
11	BG	1003	BCL	CHA-CBD-CGD-O2D
11	BH	1004	BCL	CHA-CBD-CGD-O1D
11	BH	1004	BCL	CHA-CBD-CGD-O2D
11	BI	102	BCL	CHA-CBD-CGD-O2D
11	BK	1005	BCL	CHA-CBD-CGD-O2D
11	BL	1005	BCL	CHA-CBD-CGD-O2D
11	BN	1004	BCL	CHA-CBD-CGD-O1D
11	BN	1004	BCL	CHA-CBD-CGD-O2D
11	BP	1002	BCL	CHA-CBD-CGD-O1D
11	BP	1002	BCL	CHA-CBD-CGD-O2D
11	BS	1006	BCL	CHA-CBD-CGD-O2D
11	BT	1002	BCL	CHA-CBD-CGD-O1D
11	BT	1002	BCL	CHA-CBD-CGD-O2D
11	BU	1001	BCL	CHA-CBD-CGD-O1D
11	BU	1001	BCL	CHA-CBD-CGD-O2D
11	BV	1002	BCL	CHA-CBD-CGD-O1D
11	BV	1002	BCL	CHA-CBD-CGD-O2D
11	BW	1002	BCL	CHA-CBD-CGD-O2D
12	BD	102	LMT	O5B-C5B-C6B-O6B
13	BB	101	V7N	C21-C22-C23-C24
13	bh	101	V7N	C21-C22-C23-C24
20	L	302	MQ8	C17-C18-C20-C21
12	BK	1002	LMT	O1'-C1-C2-C3
12	BE	102	LMT	C5'-C4'-O1B-C1B
12	BG	1004	LMT	C9-C10-C11-C12
11	AW	103	BCL	CAA-CBA-CGA-O2A
18	ae	102	CD4	O14-C35-C36-C37
24	ag	103	V7B	O8-C28-C29-C30
18	ag	101	CD4	O16-C33-C34-O14
11	AJ	101	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
12	AJ	103	LMT	C5'-C4'-O1B-C1B
12	BN	1002	LMT	C5'-C4'-O1B-C1B
12	BP	1003	LMT	C5'-C4'-O1B-C1B
12	BX	101	LMT	C5'-C4'-O1B-C1B
11	BF	102	BCL	CAA-CBA-CGA-O2A
11	ad	102	BCL	CAA-CBA-CGA-O2A
12	BR	103	LMT	C2-C3-C4-C5
11	BX	103	BCL	C2A-CAA-CBA-CGA
13	bo	102	V7N	C30-C1-C2-C3
14	AQ	105	0V9	C20-C21-C22-C23
13	BT	1001	V7N	C23-C24-C25-C26
12	AD	103	LMT	C2B-C1B-O1B-C4'
11	BE	103	BCL	C4-C3-C5-C6
11	ag	102	BCL	C4-C3-C5-C6
13	BT	1001	V7N	C37-C22-C23-C24
12	BW	1004	LMT	C5-C6-C7-C8
11	AR	102	BCL	C10-C11-C12-C13
12	bg	1001	LMT	C3-C4-C5-C6
11	BS	1006	BCL	C11-C10-C8-C7
11	BT	1002	BCL	C6-C7-C8-C10
13	bo	102	V7N	C21-C22-C23-C24
11	AS	102	BCL	CAA-CBA-CGA-O2A
11	AB	105	BCL	C11-C10-C8-C9
11	AD	101	BCL	C11-C12-C13-C14
11	ak	101	BCL	C11-C10-C8-C9
11	am	1001	BCL	C14-C13-C15-C16
11	bf	103	BCL	C14-C13-C15-C16
21	M	404	BPH	C11-C10-C8-C9
14	bb	102	0V9	C2-C3-O3-C30
14	bi	103	0V9	C2-C3-O3-C30
12	bj	102	LMT	C6-C7-C8-C9
11	ac	1002	BCL	C5-C6-C7-C8
12	BF	103	LMT	C2B-C1B-O1B-C4'
12	BO	1003	LMT	C4'-C5'-C6'-O6'
11	AH	102	BCL	C2A-CAA-CBA-CGA
13	BH	1001	V7N	C23-C24-C25-C26
11	AQ	101	BCL	CAA-CBA-CGA-O1A
12	BK	1002	LMT	C5'-C4'-O1B-C1B
14	aj	101	0V9	C20-C21-C22-C23
12	BS	1003	LMT	C2B-C1B-O1B-C4'
13	af	103	V7N	C3-C4-C5-C33
13	bf	101	V7N	C3-C4-C5-C33

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Mol	Chain	Res	Type	Atoms
15	C	402	HEC	CAA-CBA-CGA-O2A
11	ao	102	BCL	C5-C6-C7-C8
11	AD	101	BCL	C16-C17-C18-C20
12	AG	103	LMT	C2B-C1B-O1B-C4'
12	BD	104	LMT	C2B-C1B-O1B-C4'
11	BD	103	BCL	C2-C3-C5-C6
12	AK	104	LMT	O5'-C5'-C6'-O6'
14	bj	103	0V9	C35-C36-C37-C38
18	M	409	CD4	O4-C17-C18-C19
12	AS	103	LMT	C2B-C1B-O1B-C4'
12	BF	103	LMT	C4'-C5'-C6'-O6'
12	BE	102	LMT	C4-C5-C6-C7
12	AV	103	LMT	C2B-C1B-O1B-C4'
11	BG	1003	BCL	C1A-C2A-CAA-CBA
11	BH	1004	BCL	C1A-C2A-CAA-CBA
11	BK	1005	BCL	C1A-C2A-CAA-CBA
11	BN	1004	BCL	C1A-C2A-CAA-CBA
11	BP	1002	BCL	C1A-C2A-CAA-CBA
11	BQ	1002	BCL	C1A-C2A-CAA-CBA
11	BT	1002	BCL	C1A-C2A-CAA-CBA
11	ae	101	BCL	C1A-C2A-CAA-CBA
11	bh	102	BCL	C1A-C2A-CAA-CBA
14	bb	102	0V9	C36-C37-C38-C39
11	AS	102	BCL	C5-C6-C7-C8
12	bg	1001	LMT	C2-C3-C4-C5
14	bp	103	0V9	C18-C19-C20-C21
12	BW	1003	LMT	C3'-C4'-O1B-C1B
14	bl	103	0V9	C31-C30-O3-C3
11	AM	101	BCL	CAA-CBA-CGA-O1A
12	H2	201	LMT	C4B-C5B-C6B-O6B
14	bk	1003	0V9	C36-C37-C38-C39
11	BA	103	BCL	C2A-CAA-CBA-CGA
14	bi	103	0V9	C4-O4P-P-O3P
11	AD	101	BCL	CAA-CBA-CGA-O1A
11	AH	102	BCL	CAA-CBA-CGA-O1A
11	BR	102	BCL	CAA-CBA-CGA-O1A
14	L	310	0V9	O5-C30-C31-C32
19	H1	1003	PGW	O02-C1-C2-C3
21	L	309	BPH	C8-C10-C11-C12
12	BI	101	LMT	C5'-C4'-O1B-C1B
12	BL	1003	LMT	C5-C6-C7-C8
12	bo	103	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
11	AW	103	BCL	C4-C3-C5-C6
14	bc	103	0V9	O4-C10-O2-C2
11	AI	101	BCL	CAA-CBA-CGA-O1A
11	ae	101	BCL	CAA-CBA-CGA-O1A
21	M	404	BPH	C8-C10-C11-C12
14	bj	103	0V9	C32-C33-C34-C35
14	bc	103	0V9	C4-O4P-P-O2P
14	bk	1003	0V9	C1-O3P-P-O2P
14	bo	104	0V9	C1-O3P-P-O2P
18	ae	102	CD4	C31-O10-P2-O12
11	AL	102	BCL	C16-C17-C18-C19
12	BU	1002	LMT	C9-C10-C11-C12
11	AE	102	BCL	CAA-CBA-CGA-O1A
11	AV	104	BCL	CAA-CBA-CGA-O1A
11	ad	102	BCL	CAA-CBA-CGA-O1A
18	ad	101	CD4	O4-C17-C18-C19
18	ae	102	CD4	O4-C17-C18-C19
24	ag	103	V7B	O10-C28-C29-C30
12	AK	104	LMT	O5'-C1'-O1'-C1
14	bk	1003	0V9	O4P-C4-C5-N
14	bm	104	0V9	O4P-C4-C5-N
11	AW	103	BCL	CAA-CBA-CGA-O1A
12	AJ	103	LMT	C1-C2-C3-C4
12	BD	105	LMT	C5'-C4'-O1B-C1B
11	al	1001	BCL	CAA-CBA-CGA-O2A
15	C	404	HEC	CAA-CBA-CGA-O2A
11	BN	1004	BCL	C2A-CAA-CBA-CGA
11	bf	103	BCL	C2A-CAA-CBA-CGA
11	BF	102	BCL	CAA-CBA-CGA-O1A
18	H1	1001	CD4	O4-C17-C18-C19
12	BS	1005	LMT	C4'-C5'-C6'-O6'
12	BR	104	LMT	C6-C7-C8-C9
25	ai	102	UYH	C12-C13-C14-C15
11	BB	105	BCL	C8-C10-C11-C12
14	AJ	104	0V9	C2-C3-O3-C30
13	BN	1001	V7N	C37-C22-C23-C24
20	M	407	MQ8	C39-C38-C40-C41
13	bb	101	V7N	C23-C24-C25-C26
13	be	102	V7N	C23-C24-C25-C26
13	bm	101	V7N	C23-C24-C25-C26
20	ao	101	MQ8	C44-C46-C47-C48
12	BO	1002	LMT	C4'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
12	M	408	LMT	C4'-C5'-C6'-O6'
12	bo	103	LMT	C4'-C5'-C6'-O6'
11	ad	102	BCL	C2-C3-C5-C6
12	BI	103	LMT	O1'-C1-C2-C3
14	L	310	0V9	C21-C22-C23-C24
11	AA	1002	BCL	CAD-CBD-CGD-O1D
11	AJ	101	BCL	CAD-CBD-CGD-O1D
11	AK	102	BCL	CAD-CBD-CGD-O1D
11	AK	103	BCL	CAD-CBD-CGD-O1D
11	AN	103	BCL	CAD-CBD-CGD-O1D
11	BB	105	BCL	CAD-CBD-CGD-O1D
11	BG	1003	BCL	CAD-CBD-CGD-O1D
11	BH	1004	BCL	CAD-CBD-CGD-O1D
11	BN	1004	BCL	CAD-CBD-CGD-O1D
11	BU	1001	BCL	CAD-CBD-CGD-O1D
14	bd	104	0V9	C5-C4-O4P-P
14	bf	104	0V9	C5-C4-O4P-P
19	H1	1003	PGW	C01-C02-O01-C1
11	BL	1005	BCL	C13-C15-C16-C17
11	AB	103	BCL	C6-C7-C8-C9
11	AE	103	BCL	C14-C13-C15-C16
11	AF	101	BCL	C14-C13-C15-C16
11	AG	101	BCL	C11-C12-C13-C14
11	AI	101	BCL	C11-C10-C8-C9
11	BL	1005	BCL	C11-C12-C13-C14
11	bd	103	BCL	C14-C13-C15-C16
12	AP	103	LMT	C5-C6-C7-C8
18	ag	101	CD4	C10-C11-C12-C13
14	aj	101	0V9	C2-C3-O3-C30
14	bk	1003	0V9	C30-C31-C32-C33
11	AG	102	BCL	CAA-CBA-CGA-O2A
11	BM	1004	BCL	CAA-CBA-CGA-O2A
14	L	310	0V9	O2-C10-C11-C12
14	bn	102	0V9	O2-C10-C11-C12
11	bj	104	BCL	C15-C16-C17-C18
13	BW	1001	V7N	C1-C2-C3-C4
13	bc	101	V7N	C1-C2-C3-C4
13	bn	101	V7N	C1-C2-C3-C4
23	M	405	CRT	C35-C36-C37-C38
12	BA	101	LMT	C2-C3-C4-C5
12	BL	1002	LMT	C4-C5-C6-C7
12	bk	1001	LMT	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
11	AN	105	BCL	C10-C11-C12-C13
11	aj	102	BCL	C2A-CAA-CBA-CGA
11	AL	103	BCL	CAA-CBA-CGA-O2A
11	AS	104	BCL	CAA-CBA-CGA-O2A
11	BJ	1004	BCL	CAA-CBA-CGA-O2A
14	AJ	104	0V9	O2-C10-C11-C12
14	bf	104	0V9	O2-C10-C11-C12
13	bo	102	V7N	C23-C24-C25-C26
11	AD	102	BCL	C13-C15-C16-C17
15	C	404	HEC	CAA-CBA-CGA-O1A
12	AI	102	LMT	C4'-C5'-C6'-O6'
11	AB	105	BCL	C11-C10-C8-C7
11	AB	105	BCL	C11-C12-C13-C15
11	AI	101	BCL	C11-C10-C8-C7
11	AQ	102	BCL	C11-C12-C13-C15
11	AW	103	BCL	C2-C3-C5-C6
11	AW	103	BCL	C11-C12-C13-C15
11	BJ	1004	BCL	C3A-C2A-CAA-CBA
11	BL	1005	BCL	C11-C12-C13-C15
11	BX	103	BCL	C11-C10-C8-C7
11	am	1001	BCL	C12-C13-C15-C16
11	AS	104	BCL	CAA-CBA-CGA-O1A
18	ae	102	CD4	O15-C35-C36-C37
12	BM	1005	LMT	C3'-C4'-O1B-C1B
12	BR	101	LMT	C3'-C4'-O1B-C1B
14	bi	105	0V9	C13-C14-C15-C16
11	BE	103	BCL	CAA-CBA-CGA-O2A
11	AO	101	BCL	C8-C10-C11-C12
19	H1	1003	PGW	C7-C8-C9-C10
18	M	402	CD4	C19-C20-C21-C22
13	BN	1001	V7N	C3-C4-C5-C6
13	bf	101	V7N	C3-C4-C5-C6
13	bi	102	V7N	C27-C28-C29-C39
12	AN	104	LMT	C2-C1-O1'-C1'
12	BR	103	LMT	C2-C1-O1'-C1'
12	BX	101	LMT	C2-C1-O1'-C1'
12	bi	104	LMT	C2-C1-O1'-C1'
11	AR	101	BCL	CAA-CBA-CGA-O2A
12	AD	103	LMT	C5'-C4'-O1B-C1B
18	M	402	CD4	C52-C53-C54-C55
12	BA	104	LMT	O5'-C1'-O1'-C1
12	H2	201	LMT	O5'-C1'-O1'-C1

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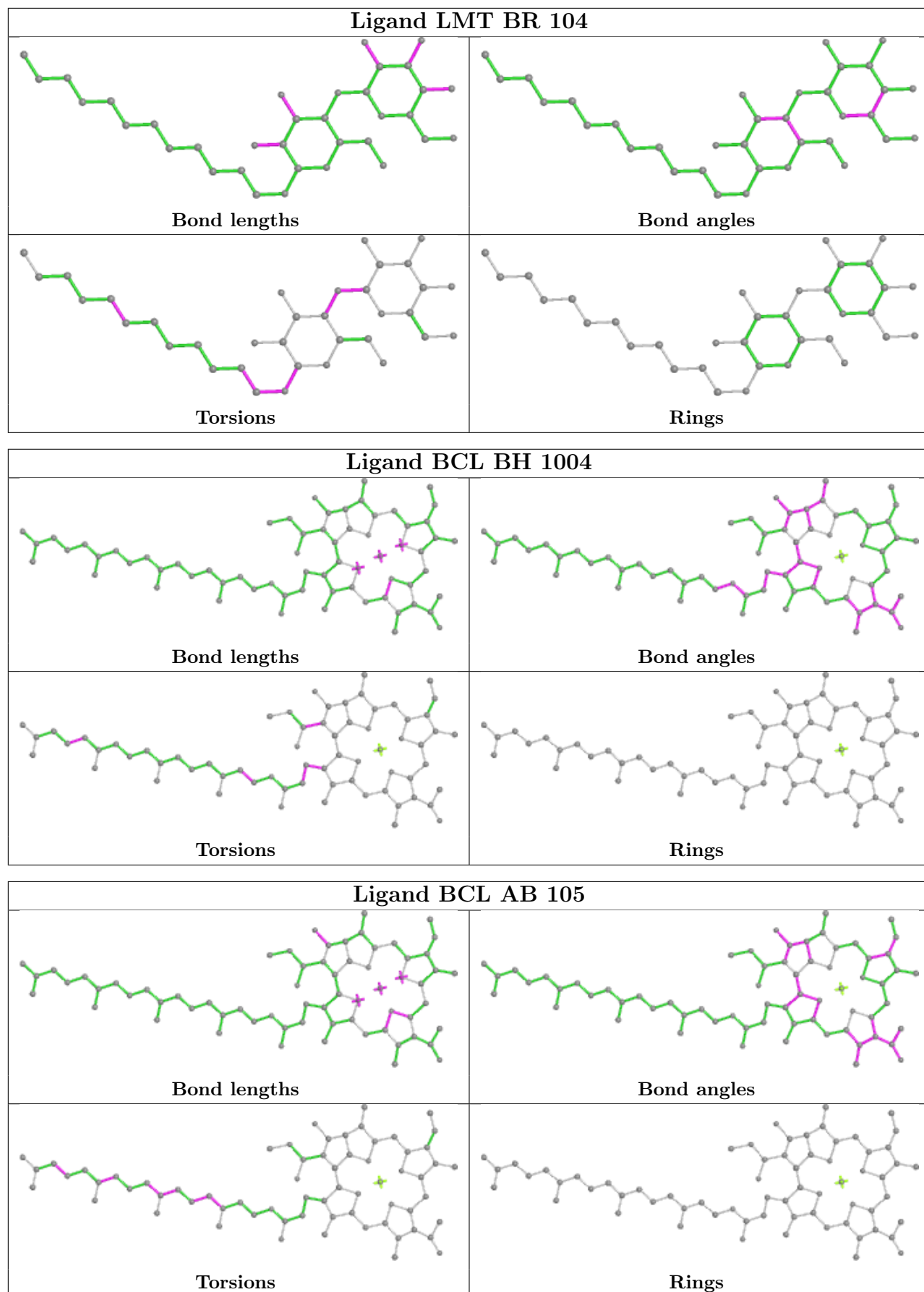
Mol	Chain	Res	Type	Atoms
11	BE	103	BCL	C8-C10-C11-C12
14	L	310	0V9	C20-C21-C22-C23
11	al	1001	BCL	CAA-CBA-CGA-O1A
14	AJ	104	0V9	O4-C10-C11-C12
11	BB	105	BCL	C15-C16-C17-C18
13	BW	1001	V7N	C23-C24-C25-C26
18	M	409	CD4	O9-C30-C31-O10
11	AA	1002	BCL	CAA-CBA-CGA-O2A
11	af	102	BCL	CAA-CBA-CGA-O2A
12	BX	102	LMT	C1-C2-C3-C4
12	BE	102	LMT	C9-C10-C11-C12
11	AK	103	BCL	C10-C11-C12-C13
14	bf	104	0V9	O4-C10-C11-C12
14	bi	105	0V9	C18-C19-C20-C21
11	BJ	1004	BCL	CAA-CBA-CGA-O1A
11	BM	1004	BCL	CAA-CBA-CGA-O1A
11	am	1001	BCL	C4-C3-C5-C6
12	AP	103	LMT	C5'-C4'-O1B-C1B
12	BL	1002	LMT	C5'-C4'-O1B-C1B

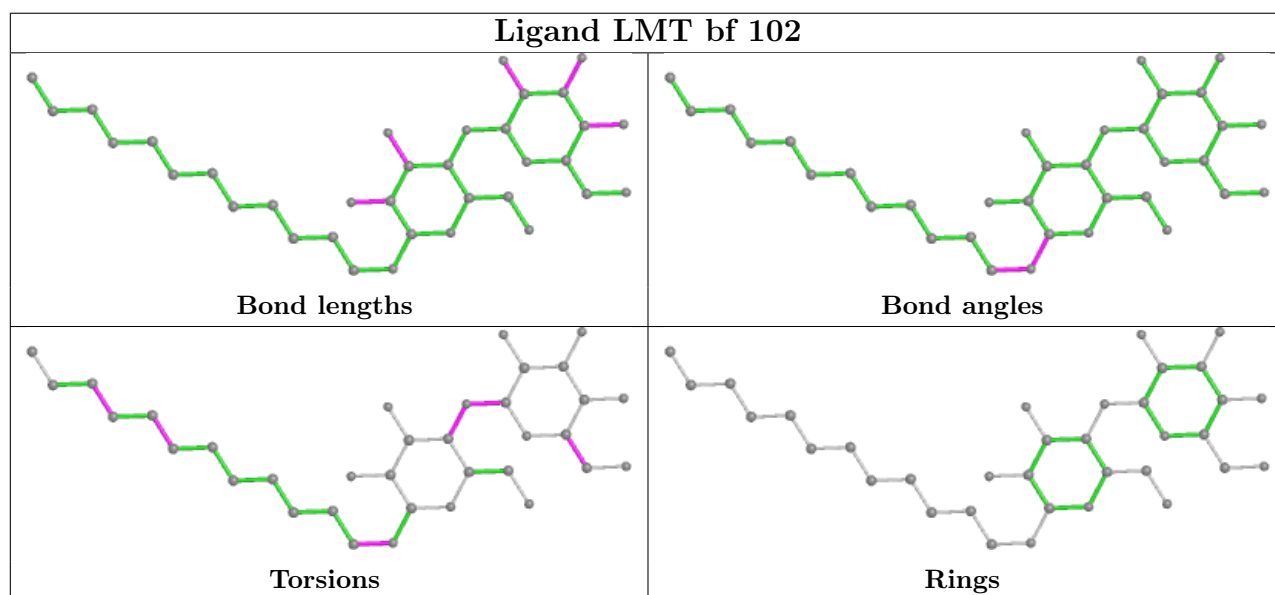
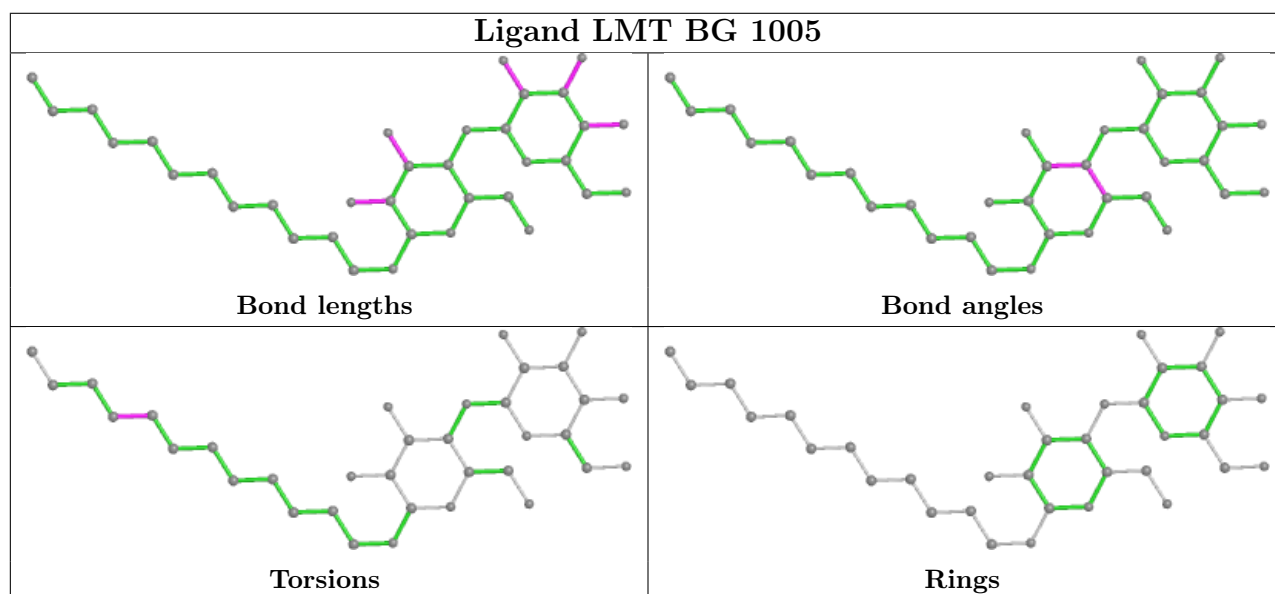
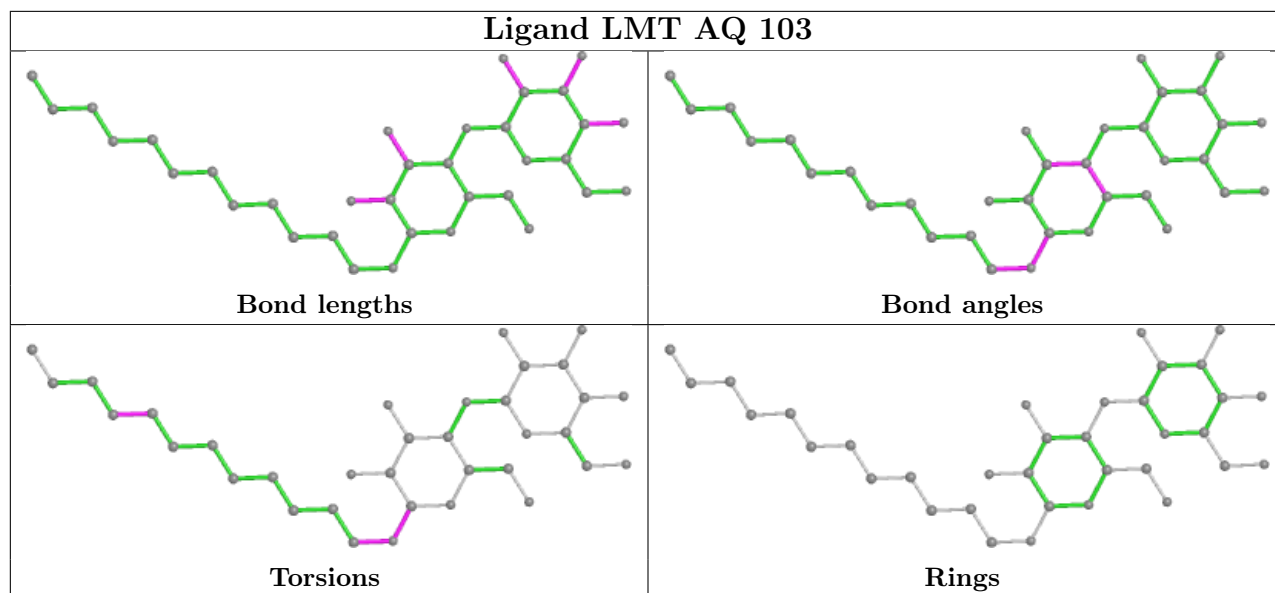
There are no ring outliers.

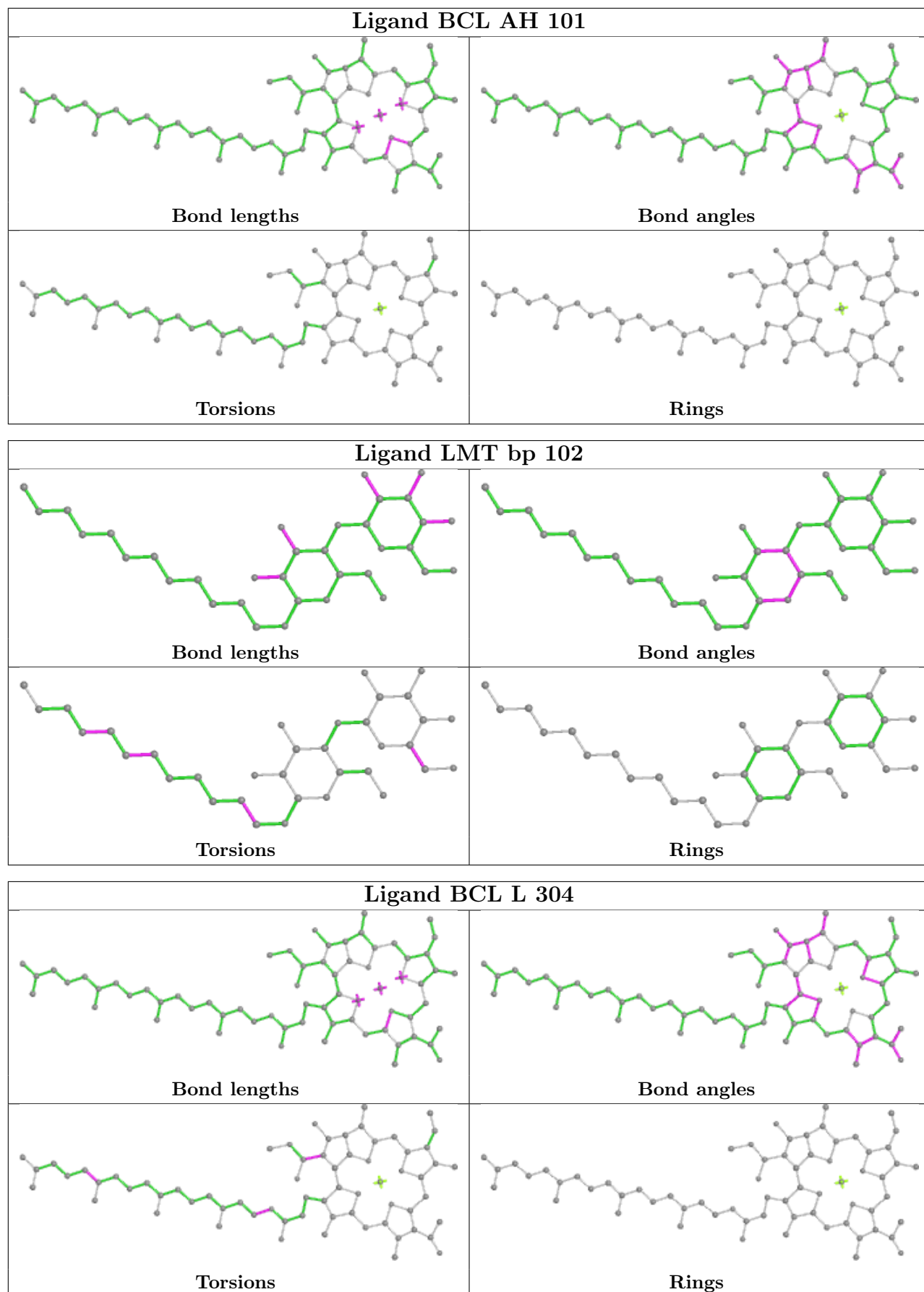
No monomer is involved in short contacts.

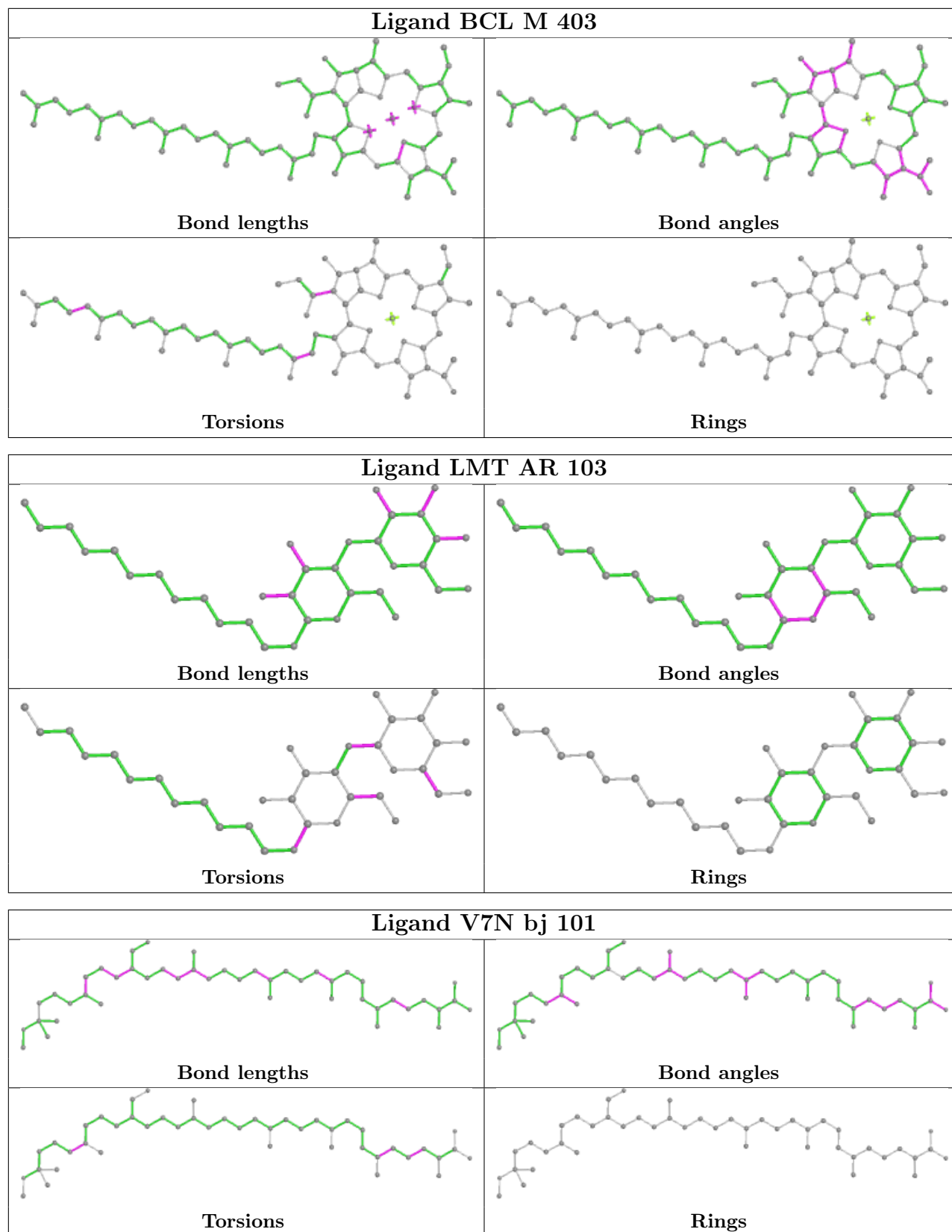
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

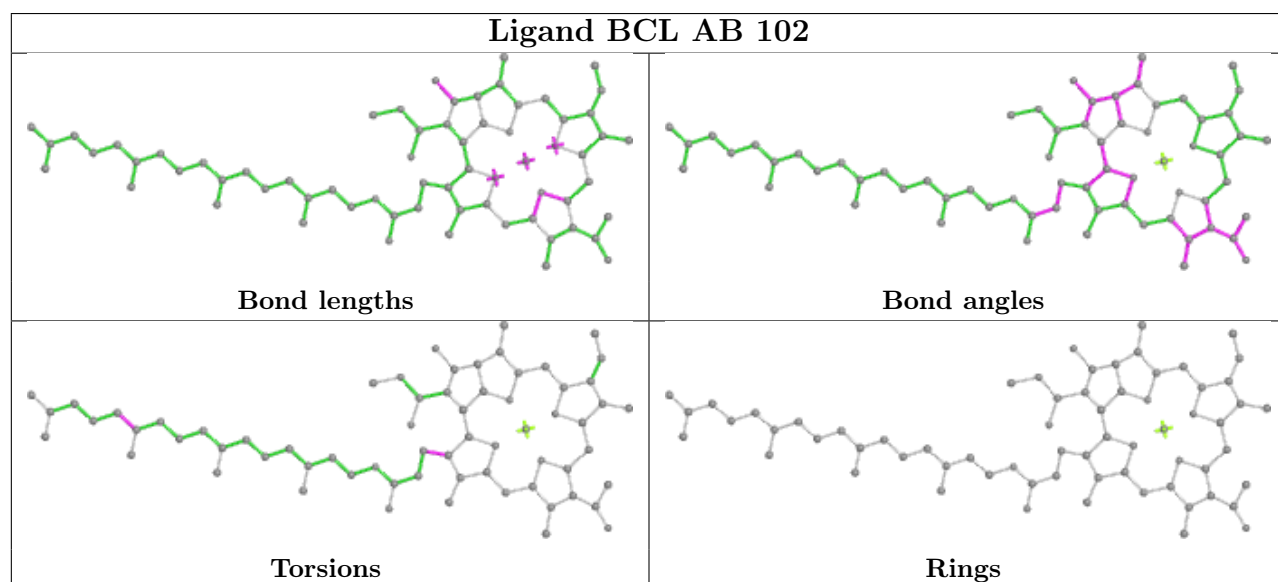
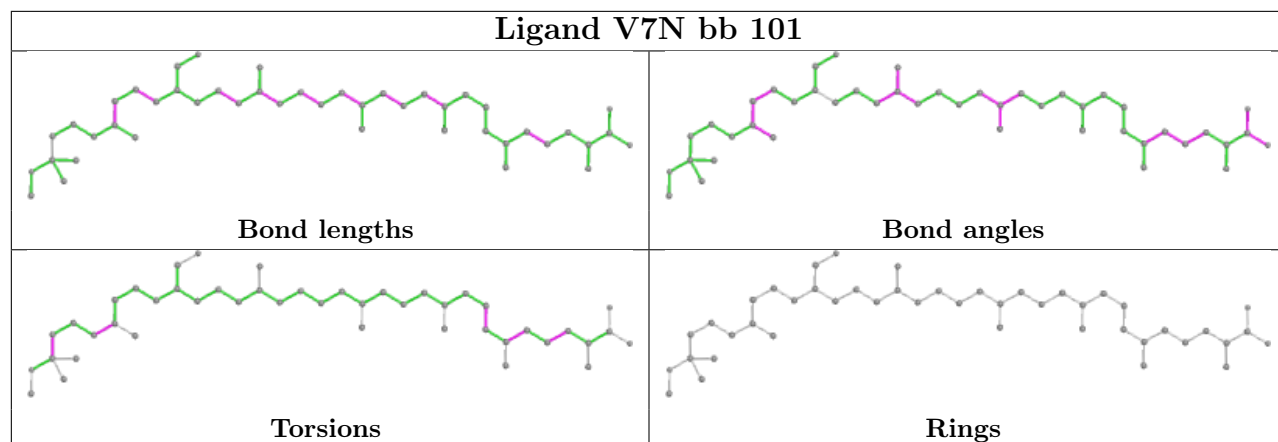


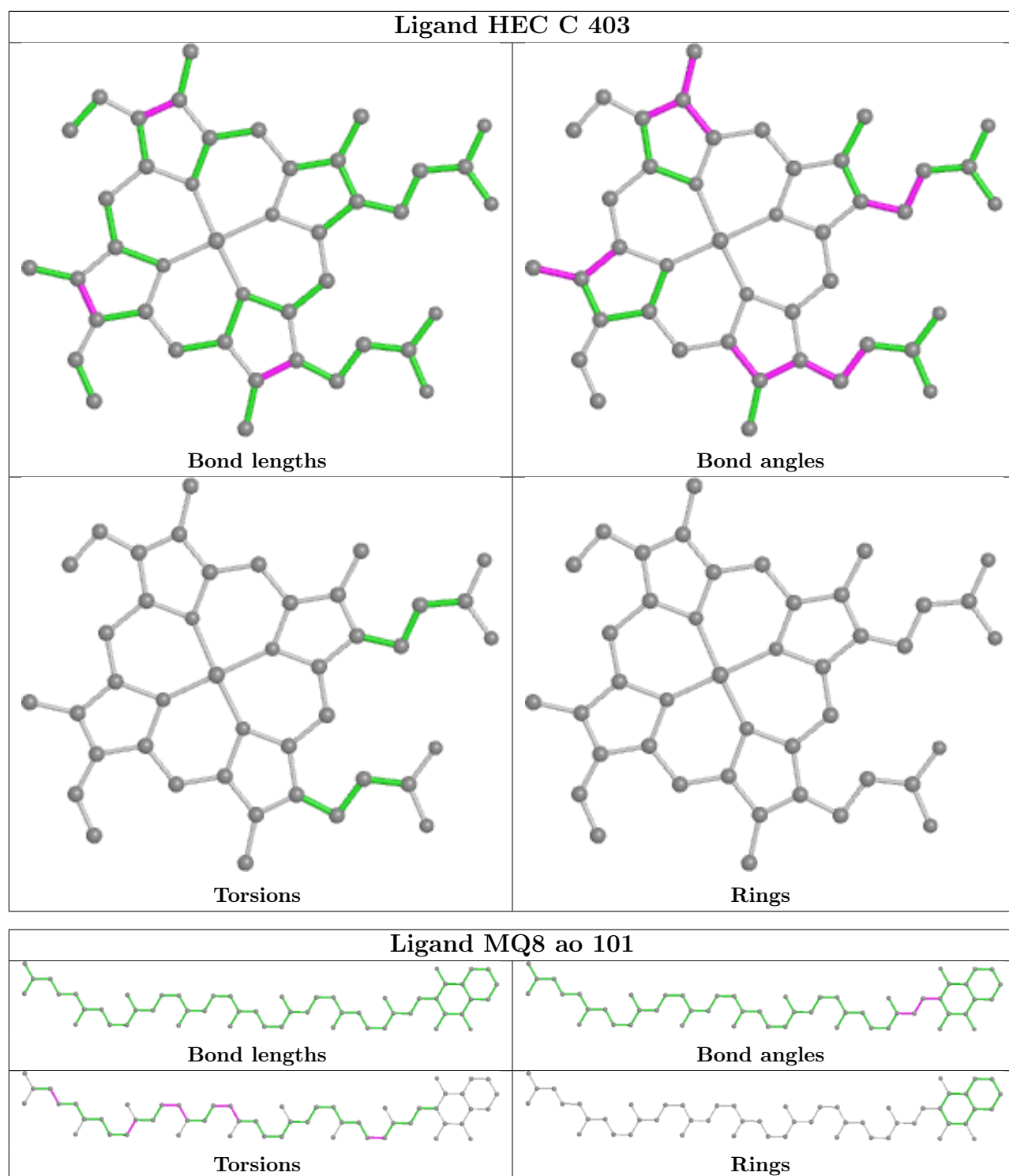


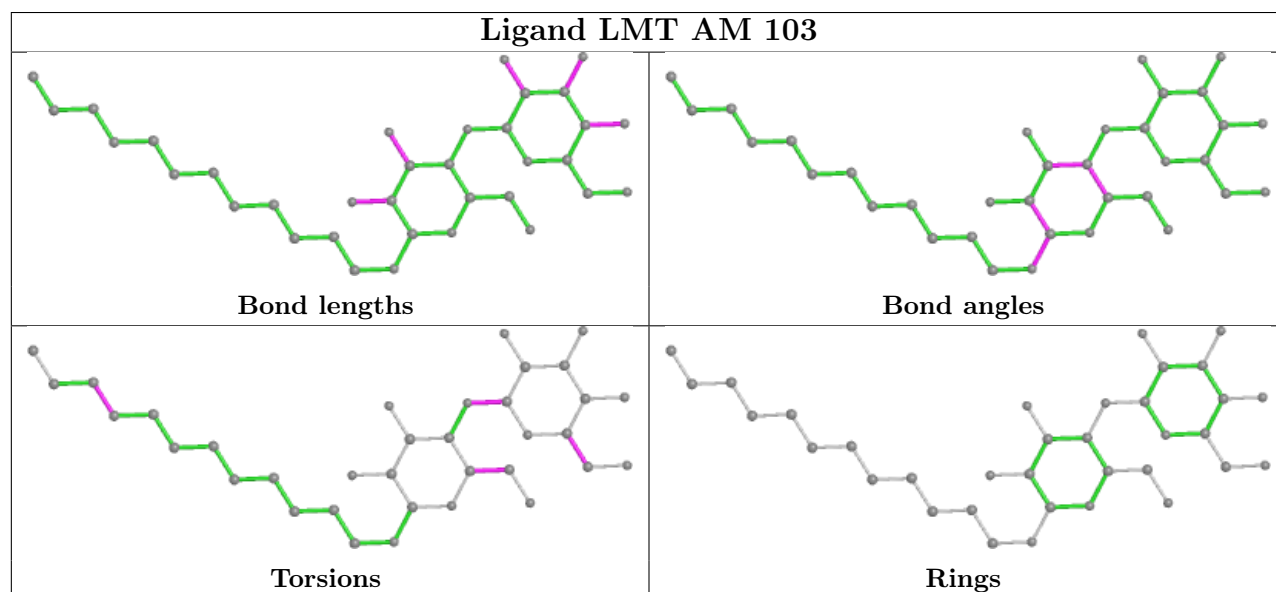
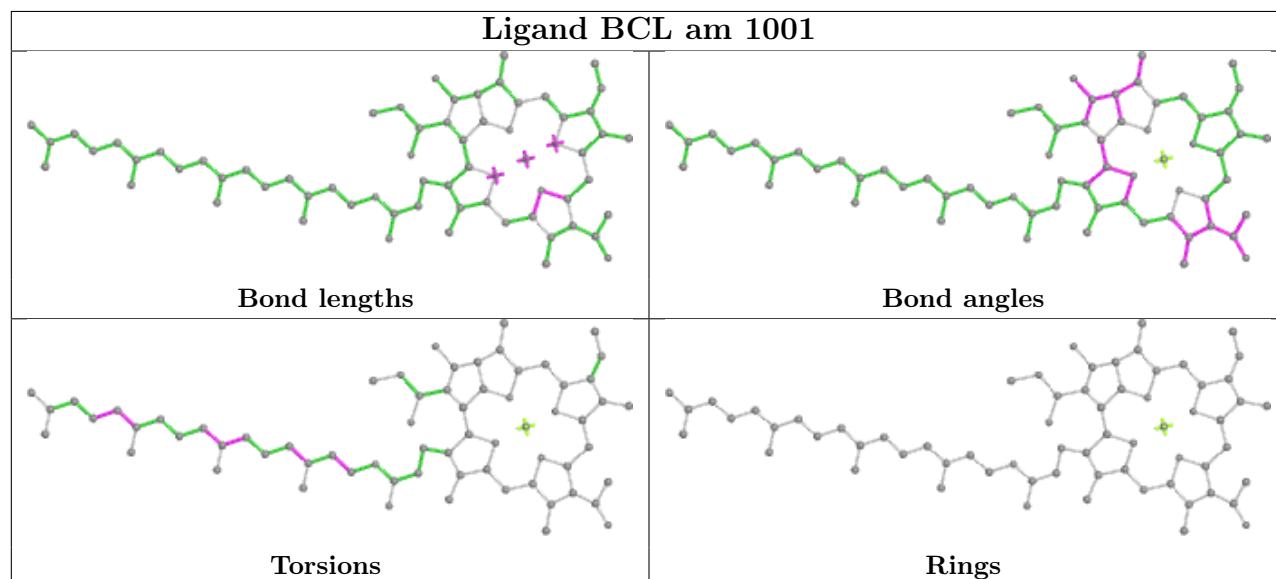
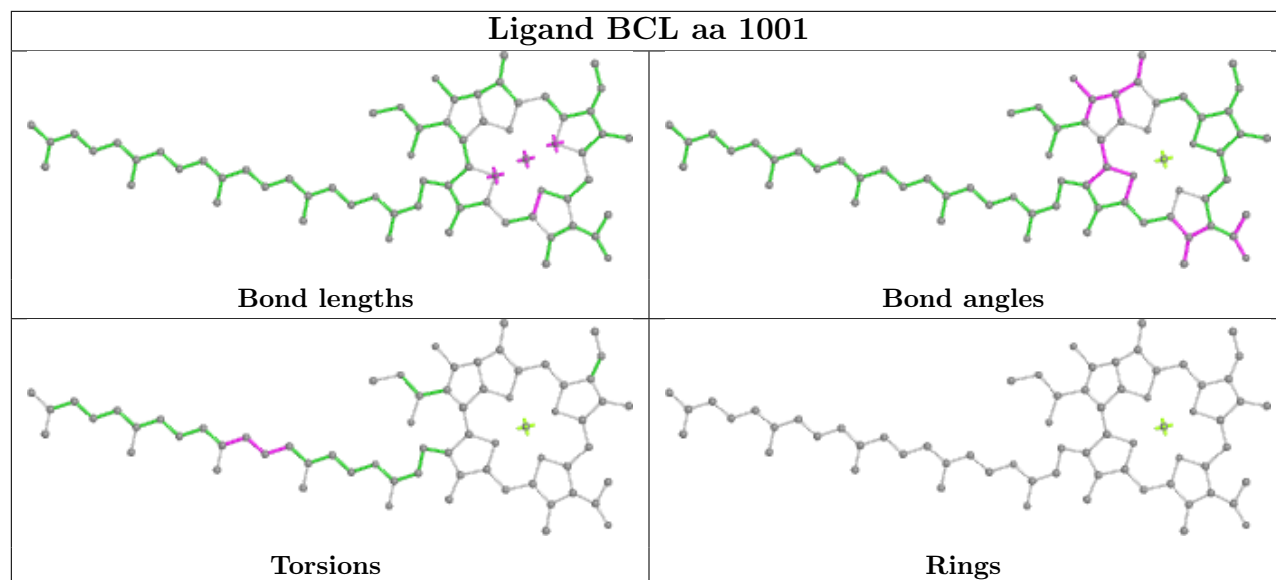


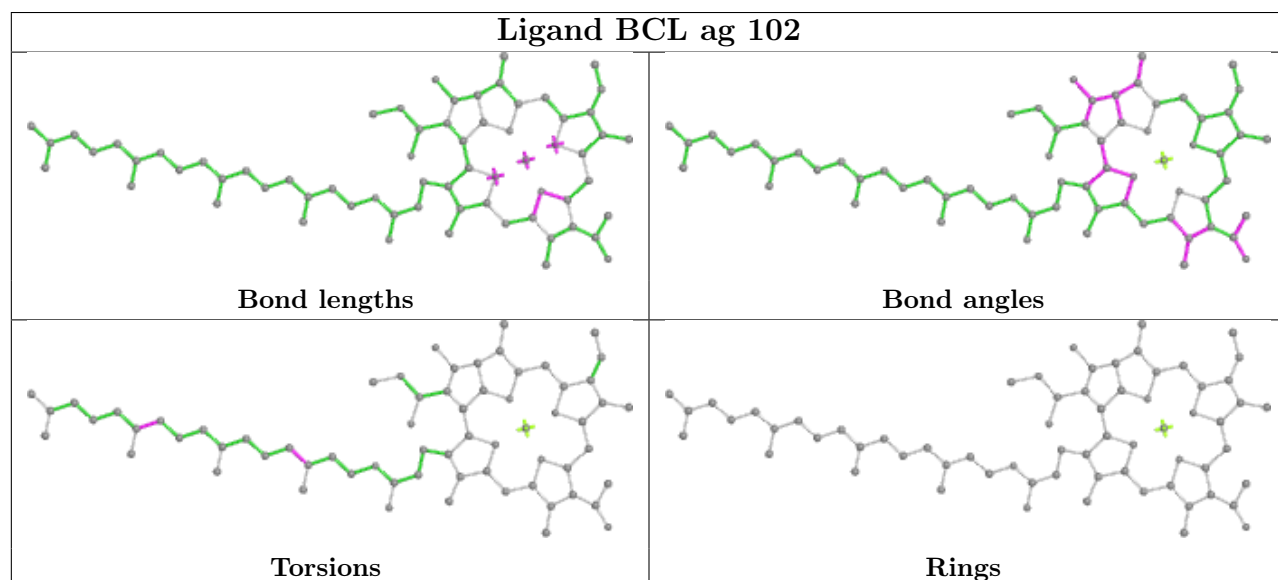
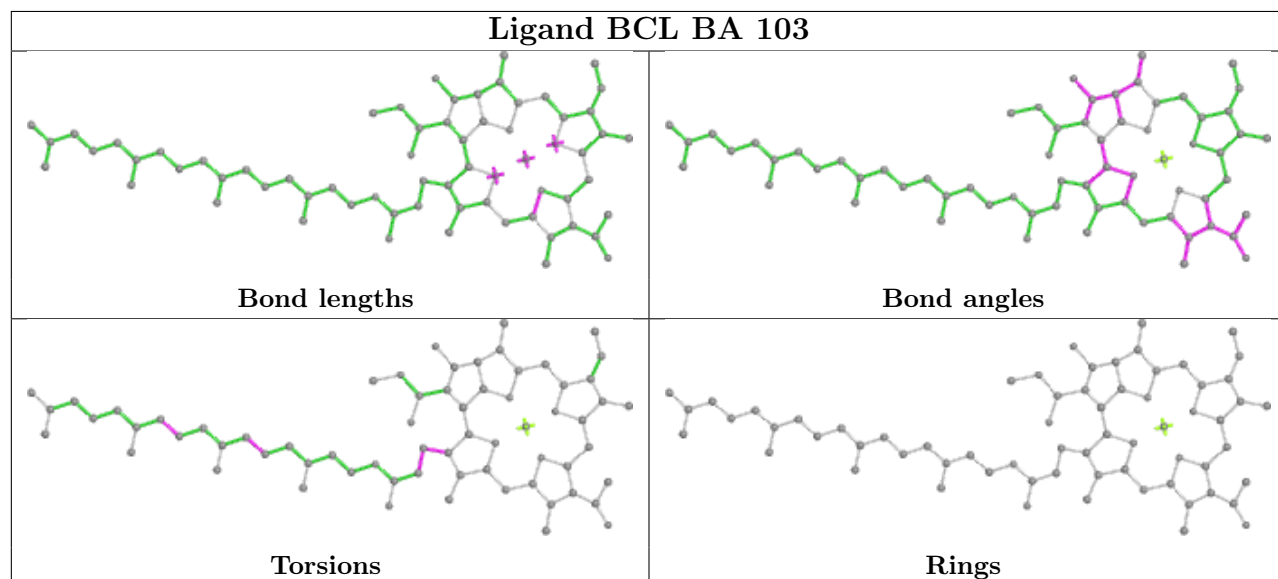
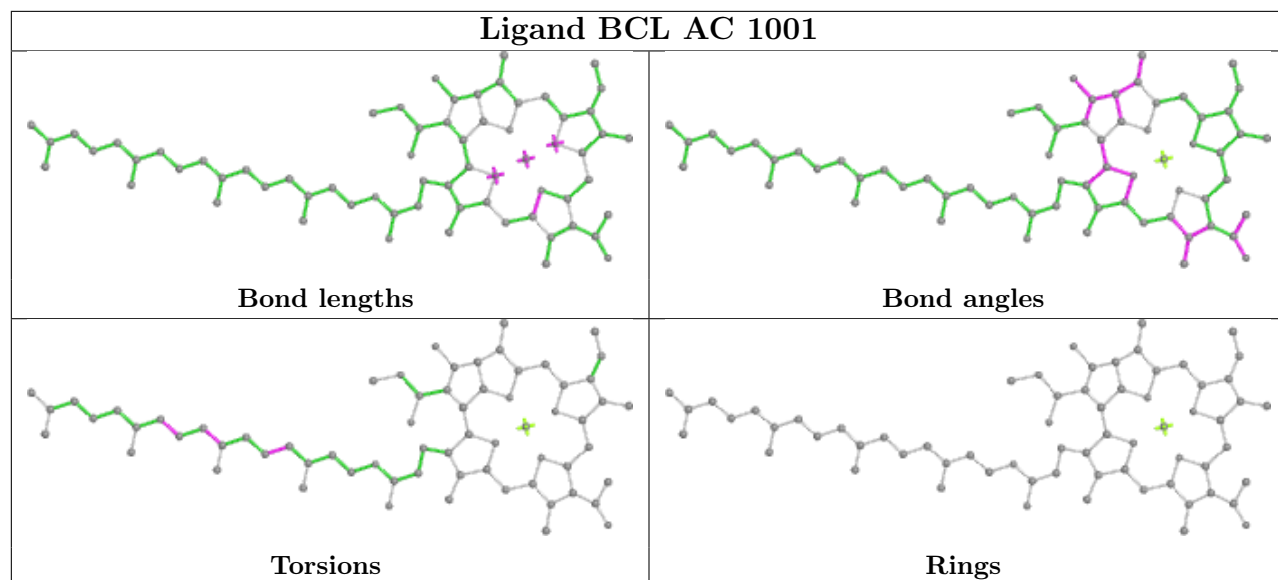




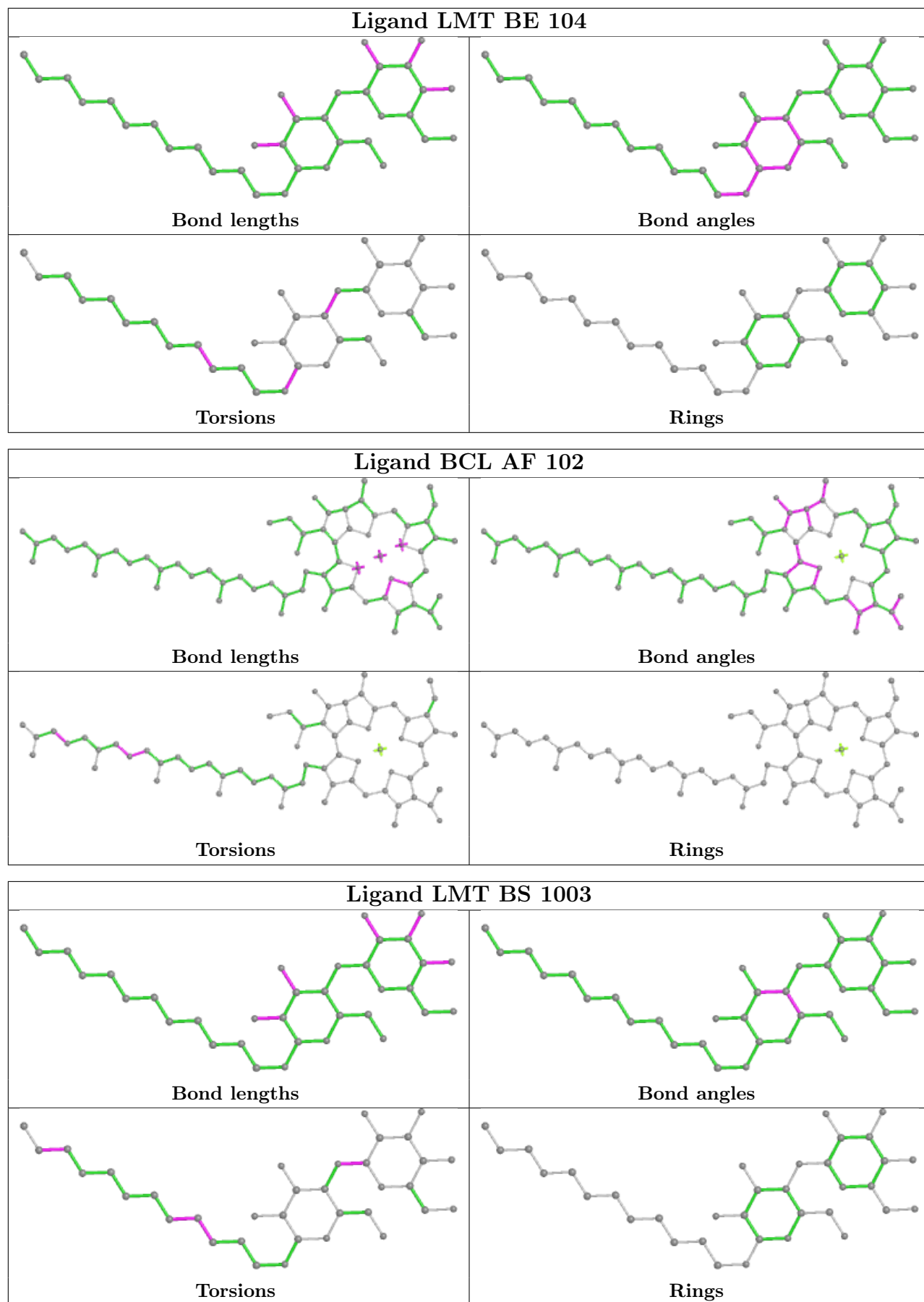


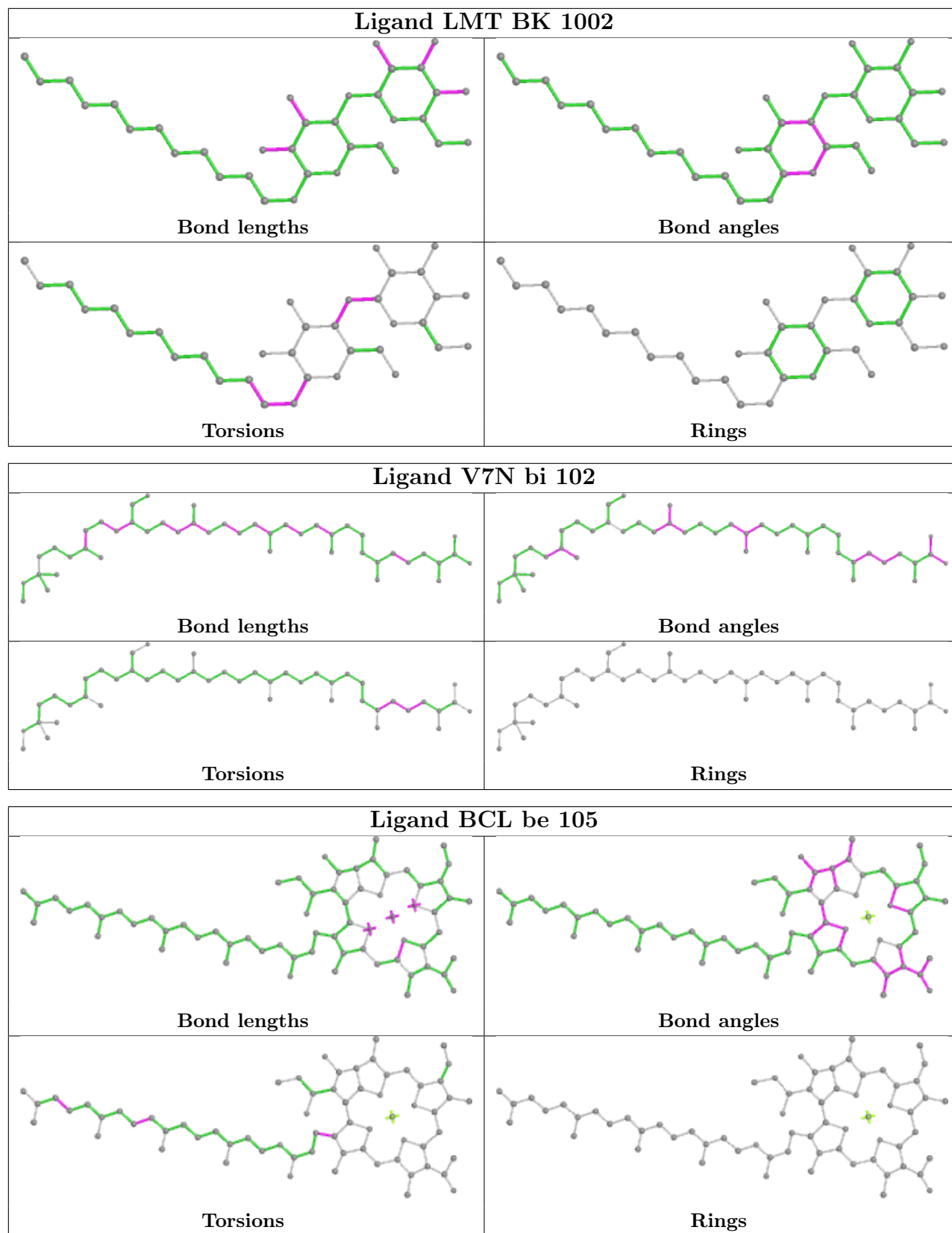


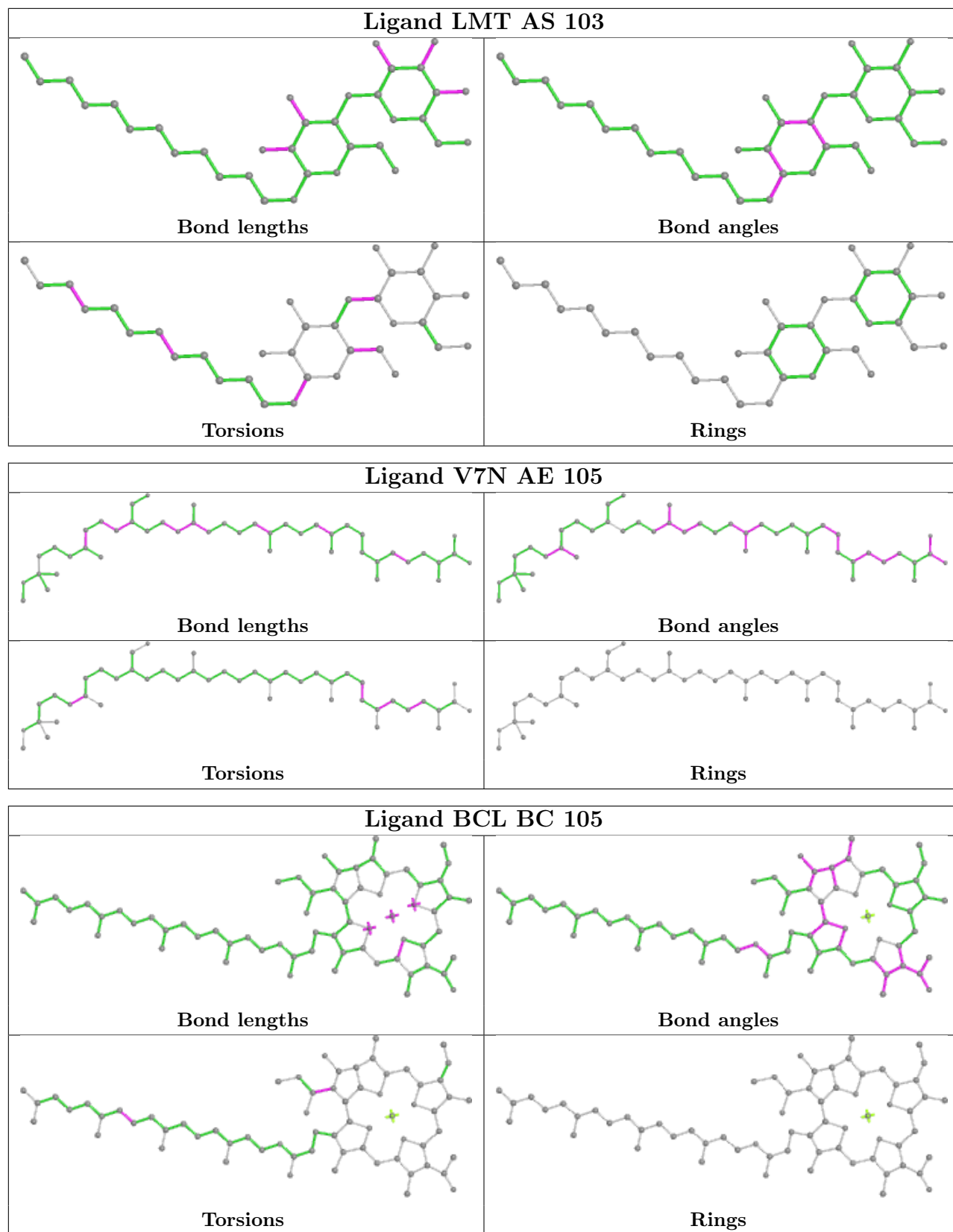


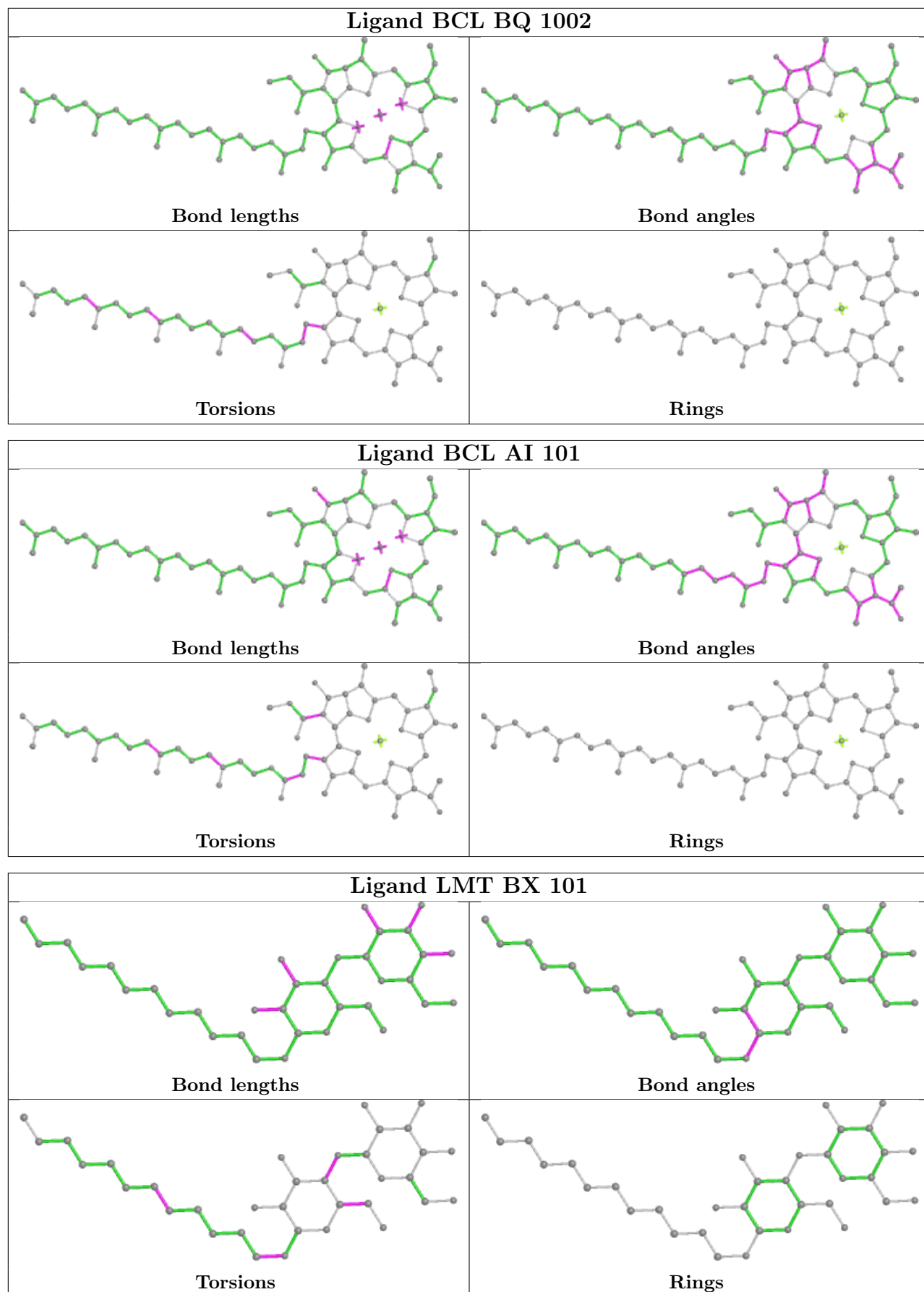


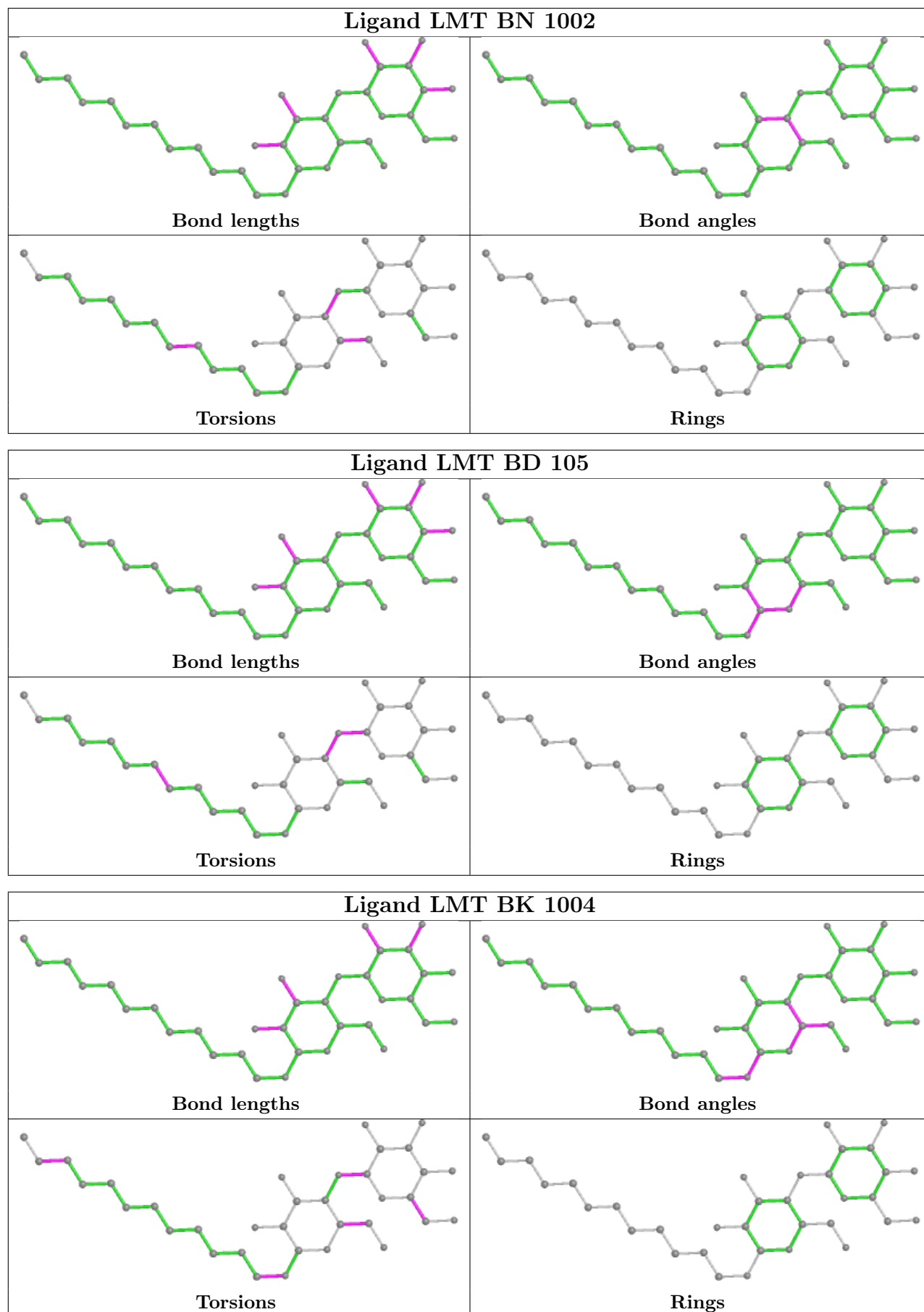


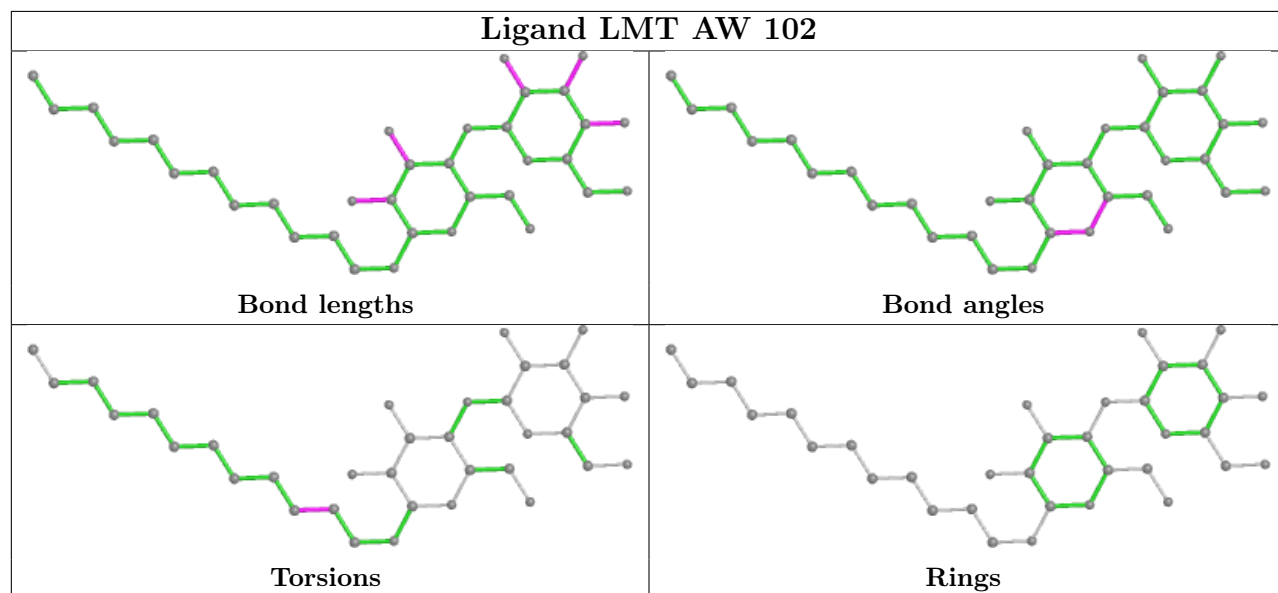
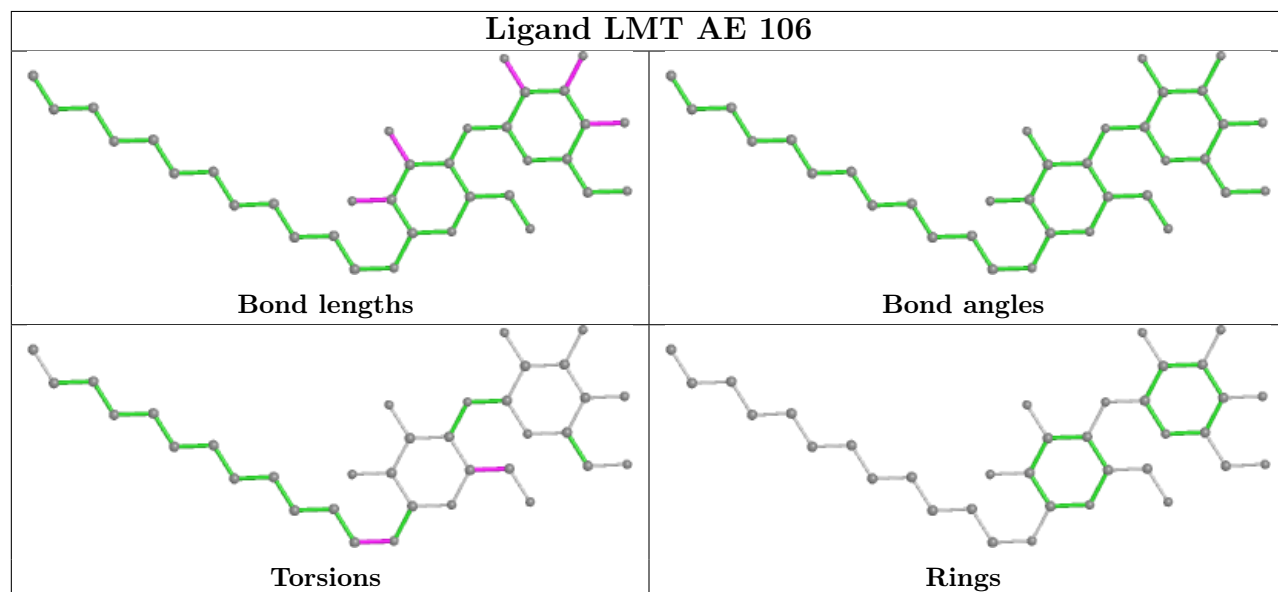
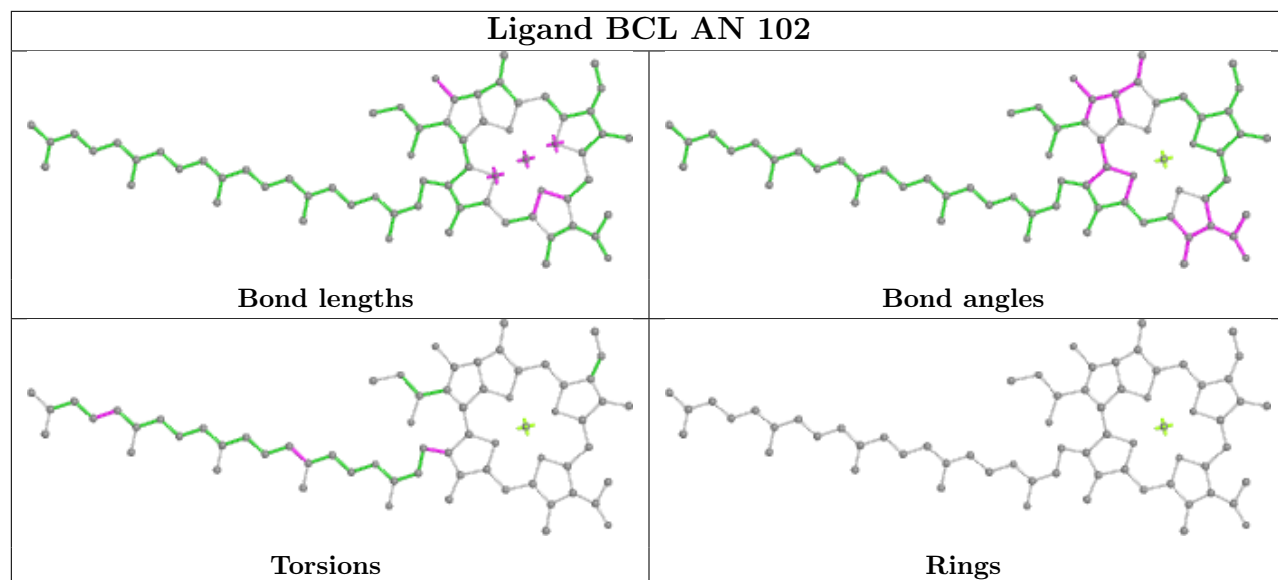


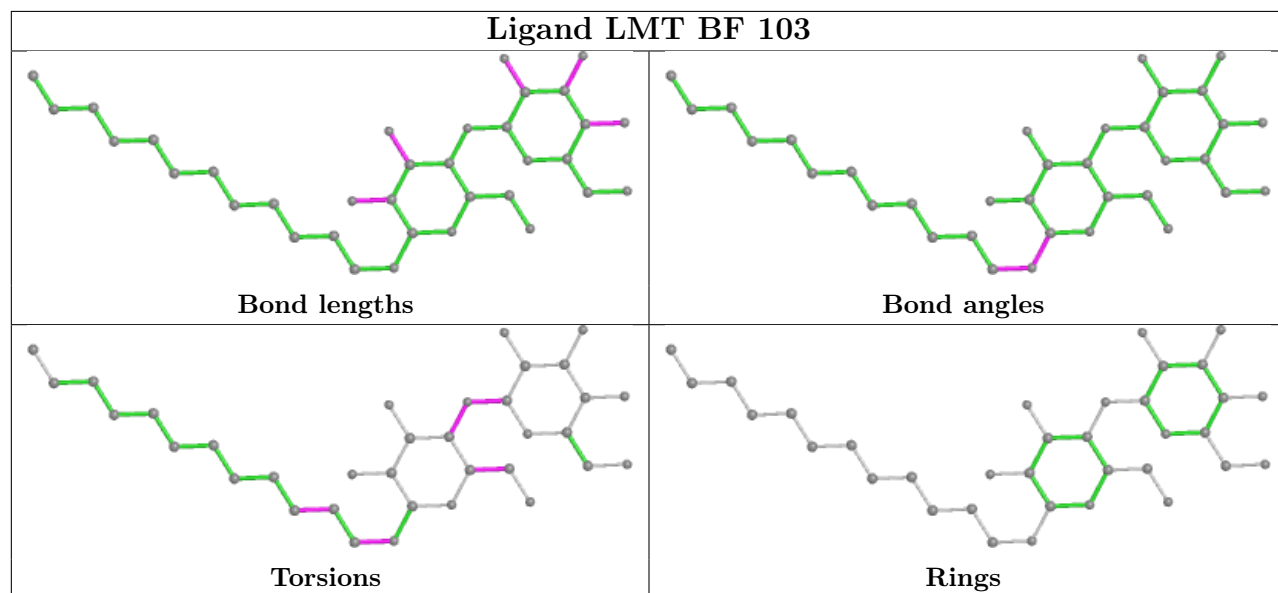
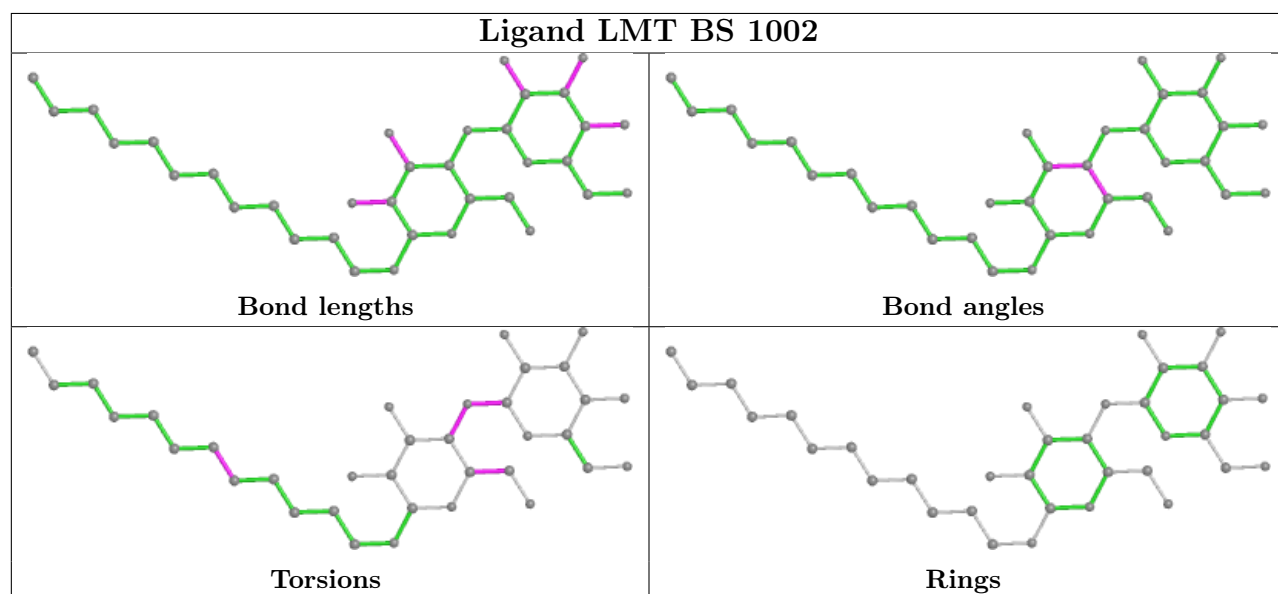
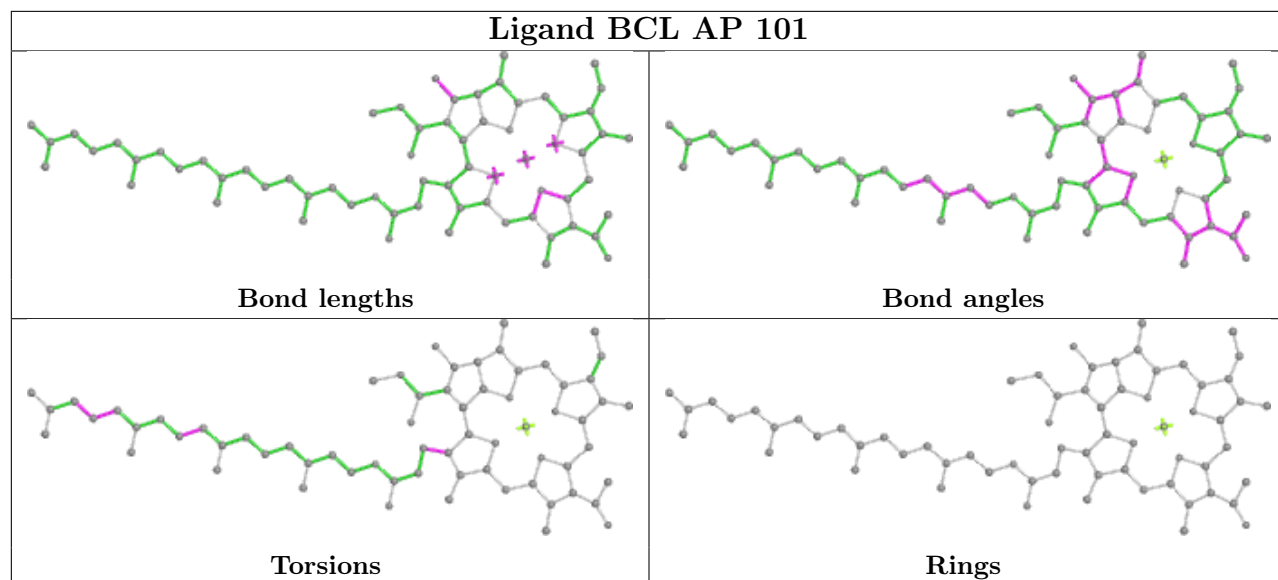


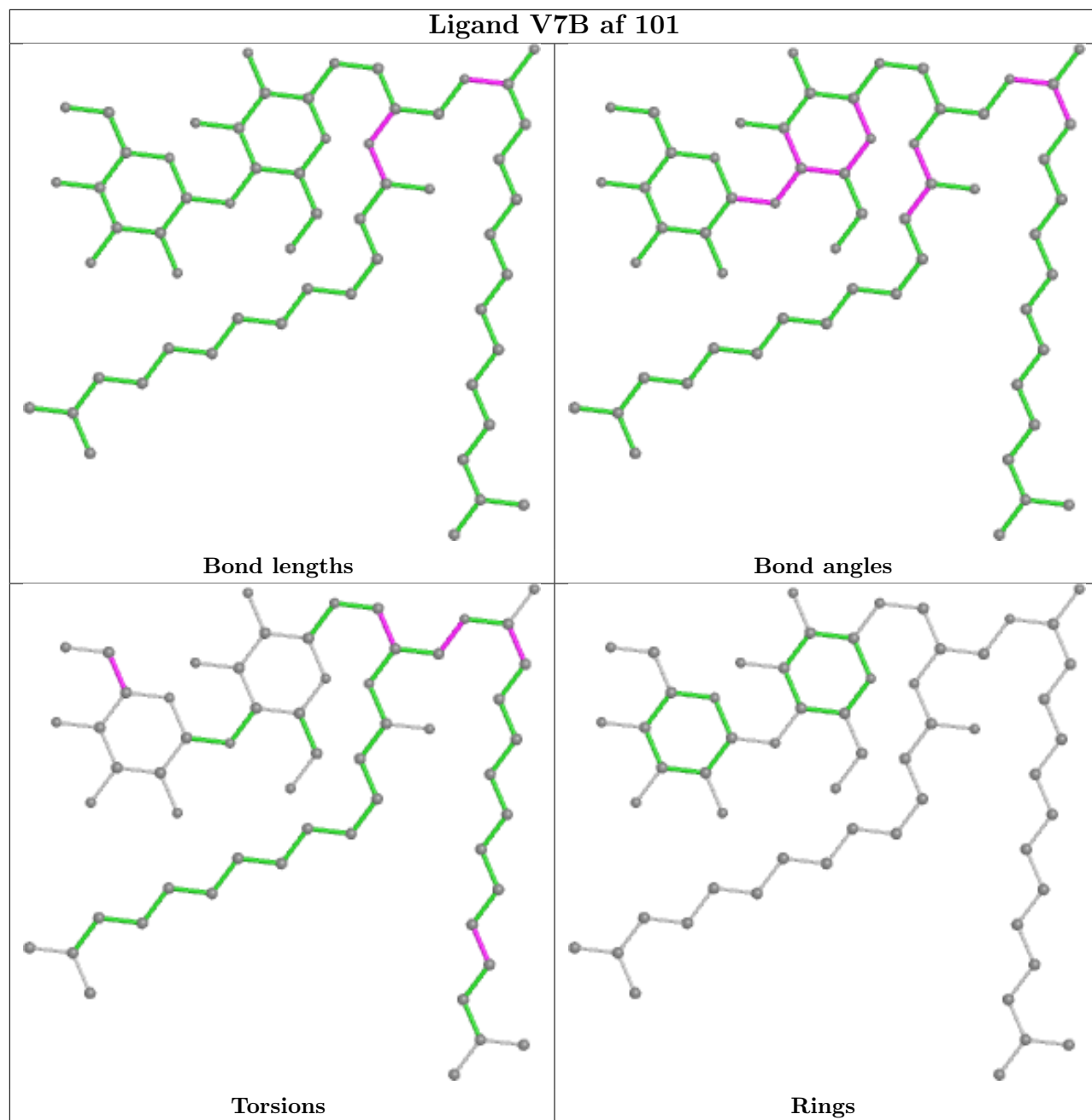




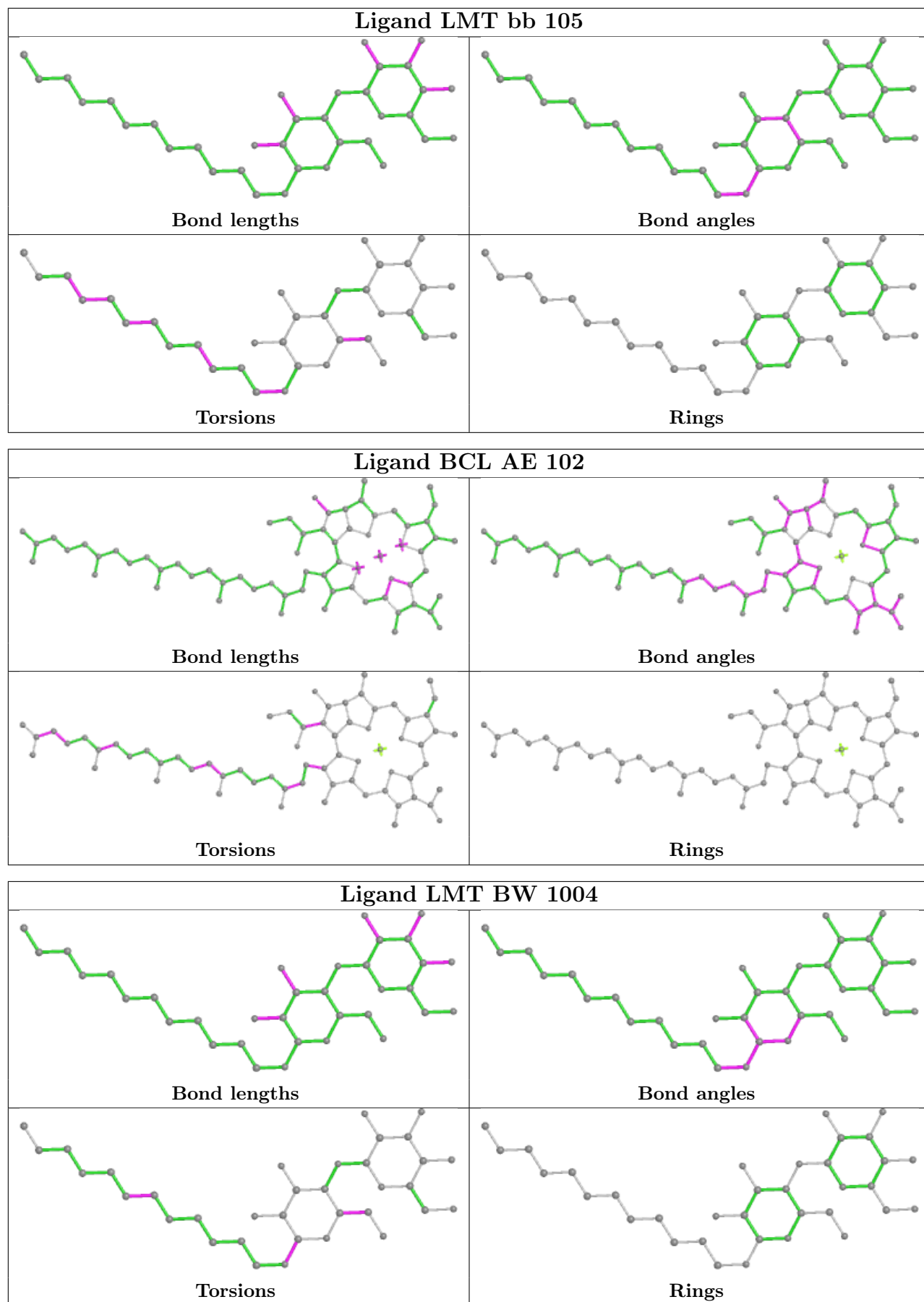


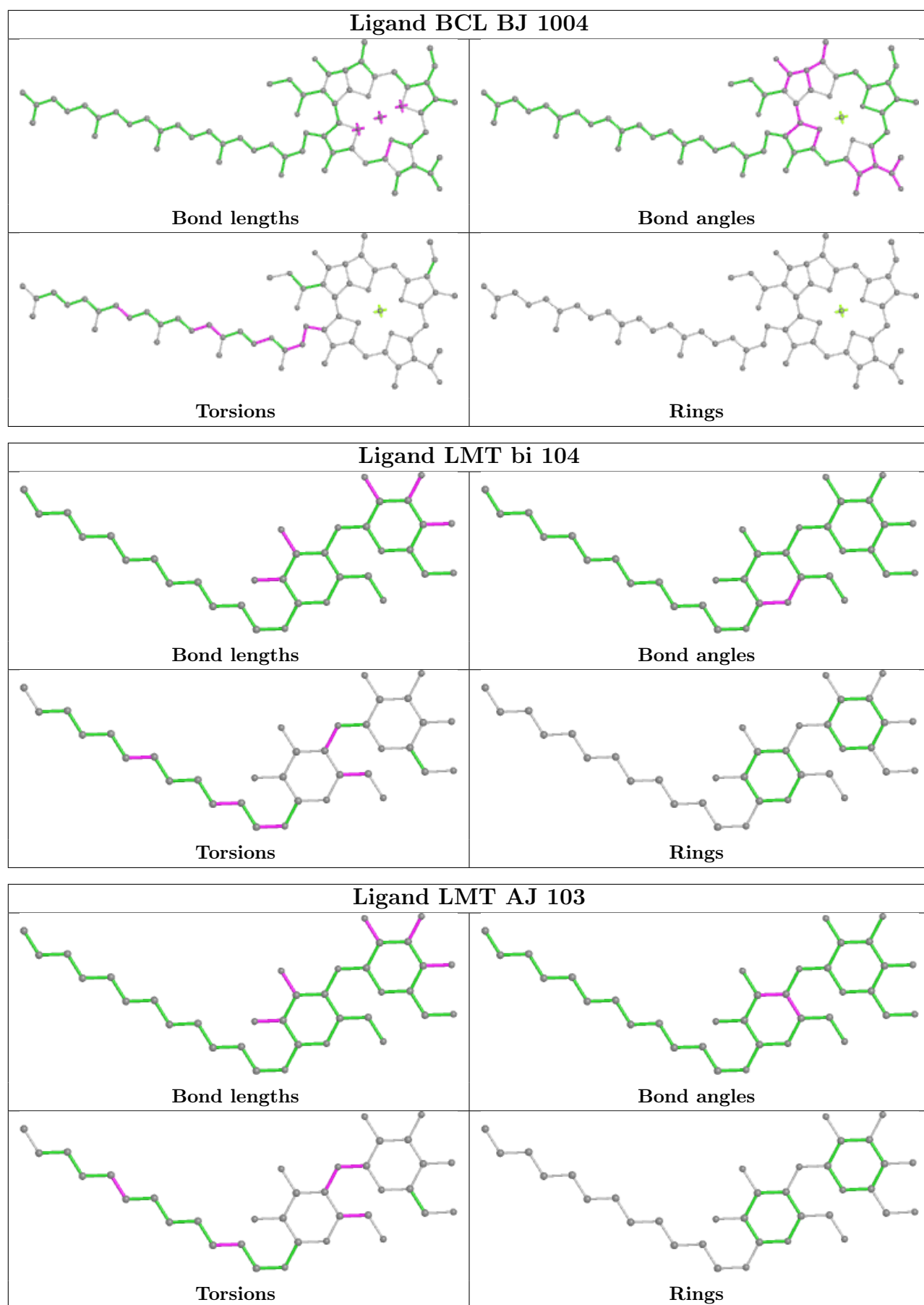


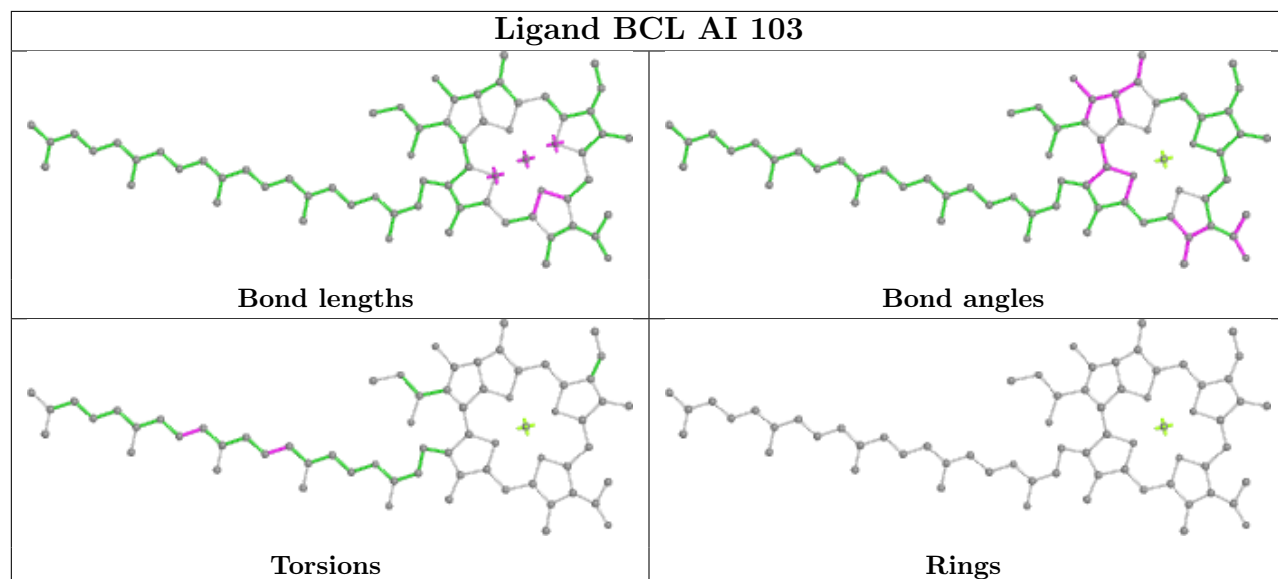
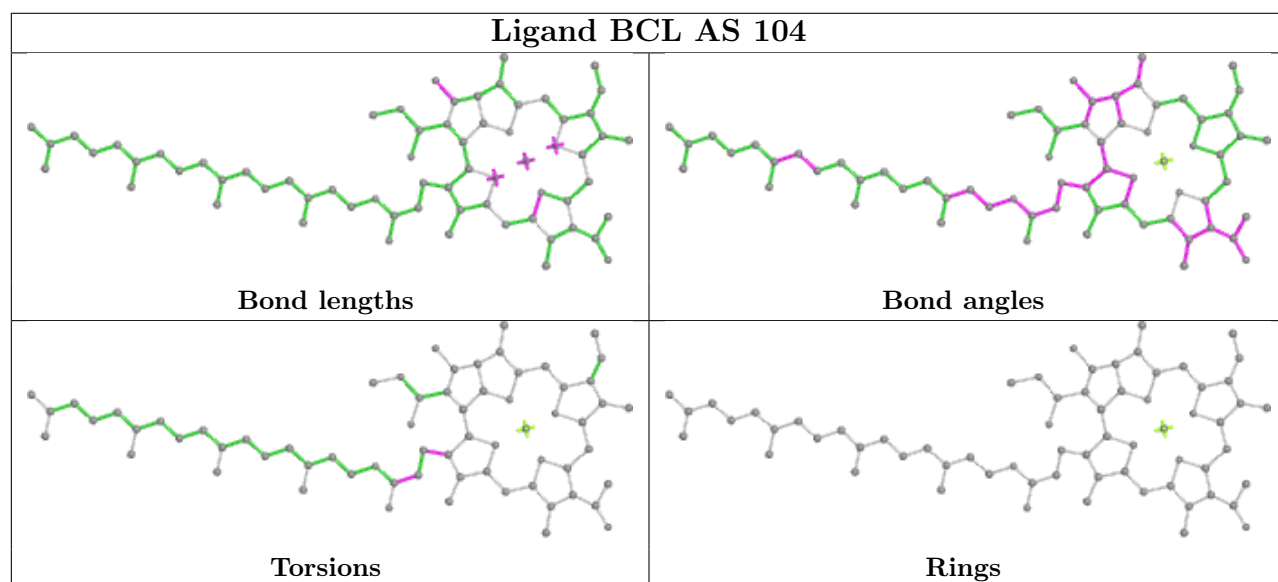
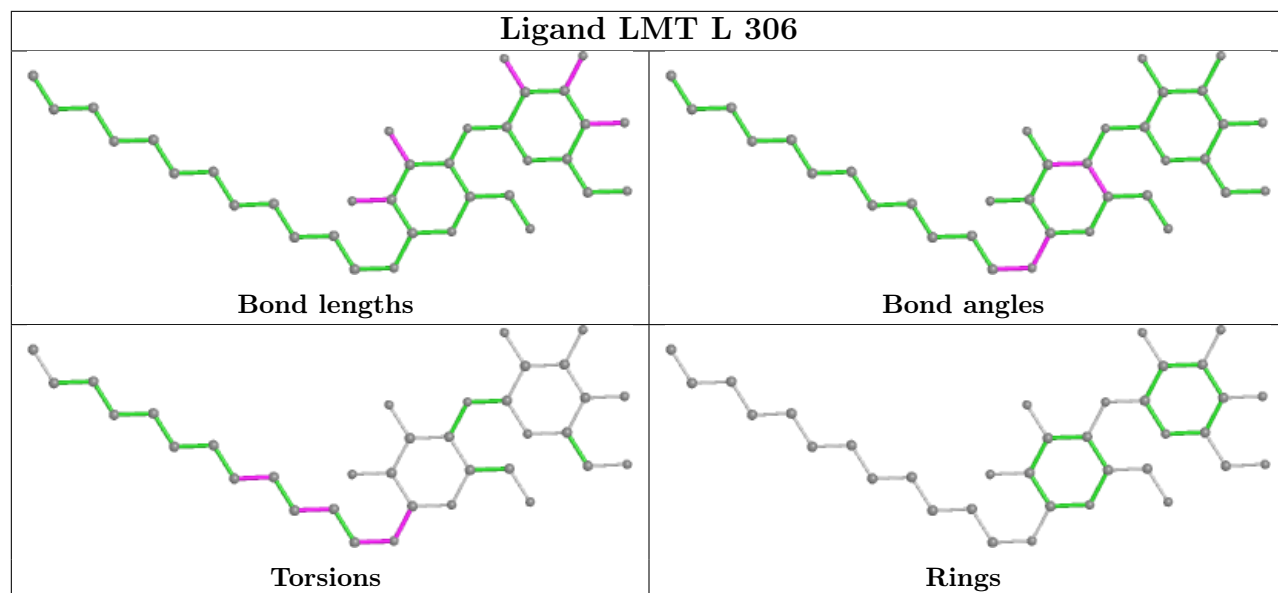


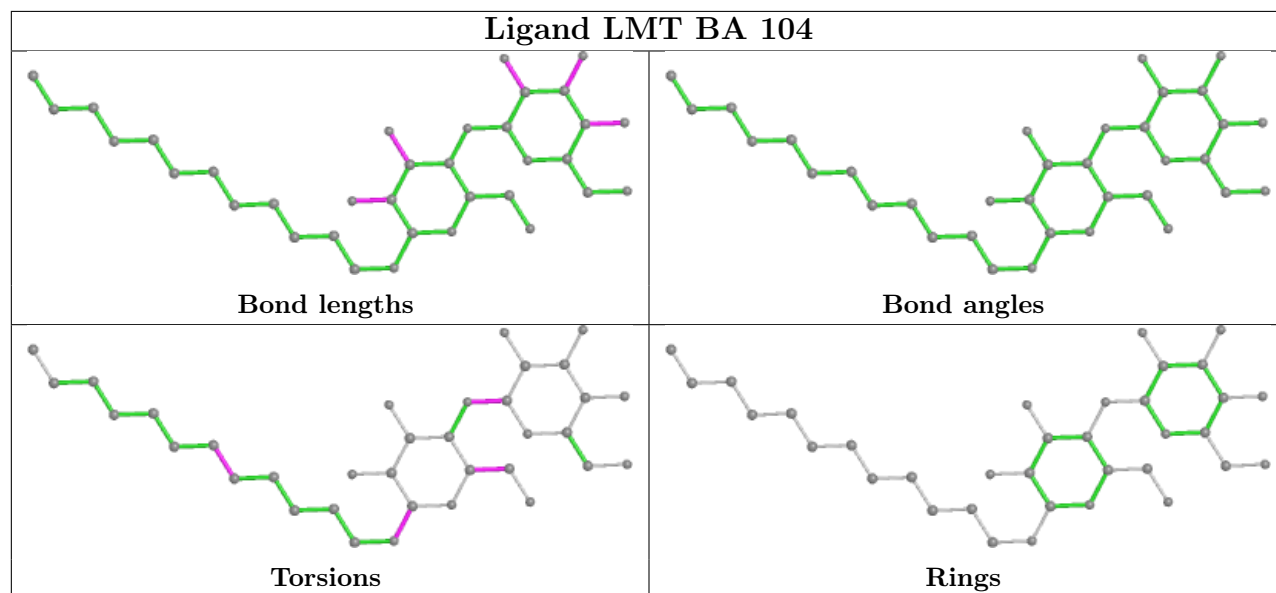
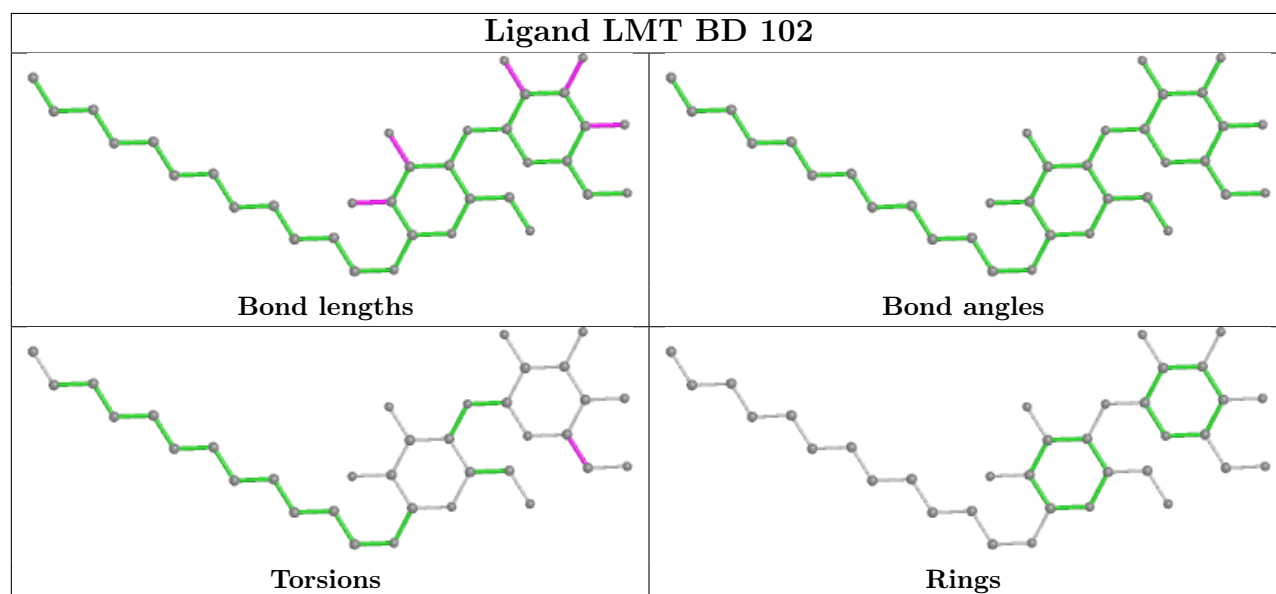
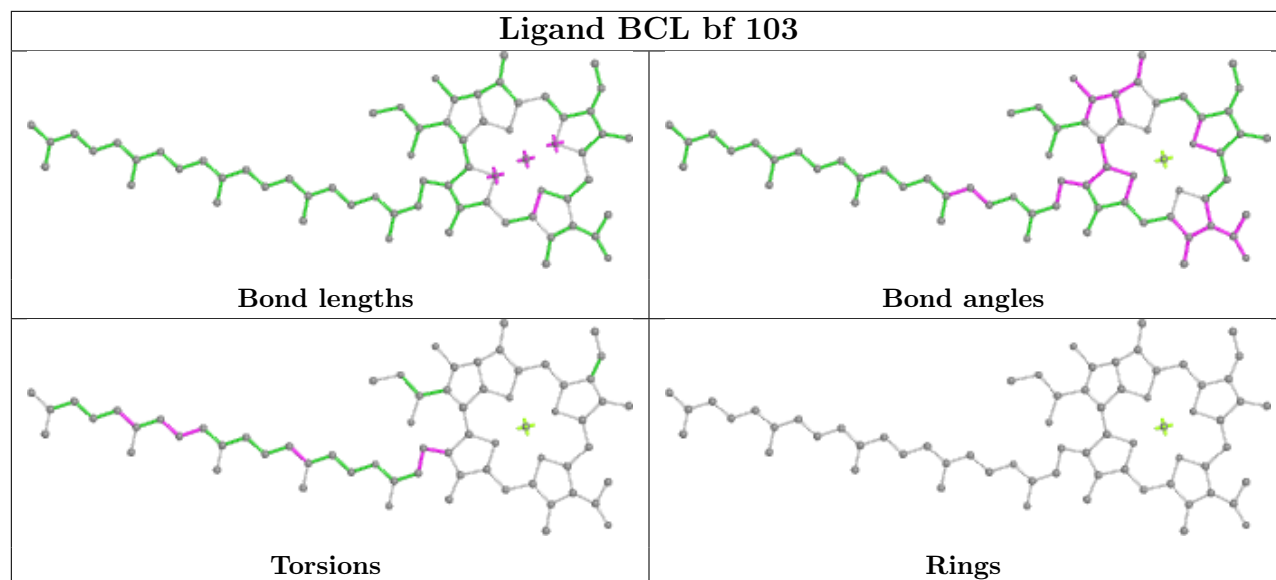


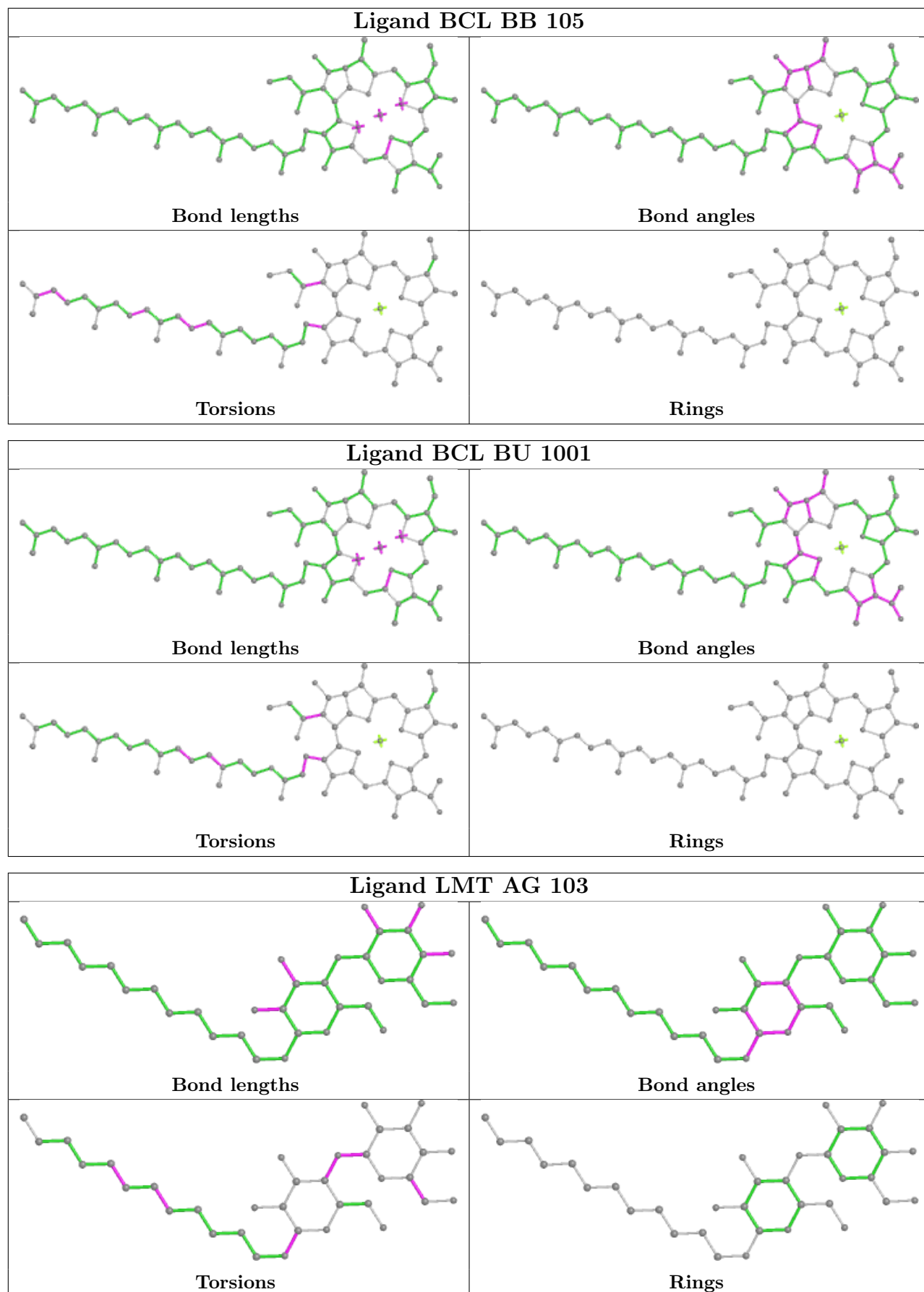


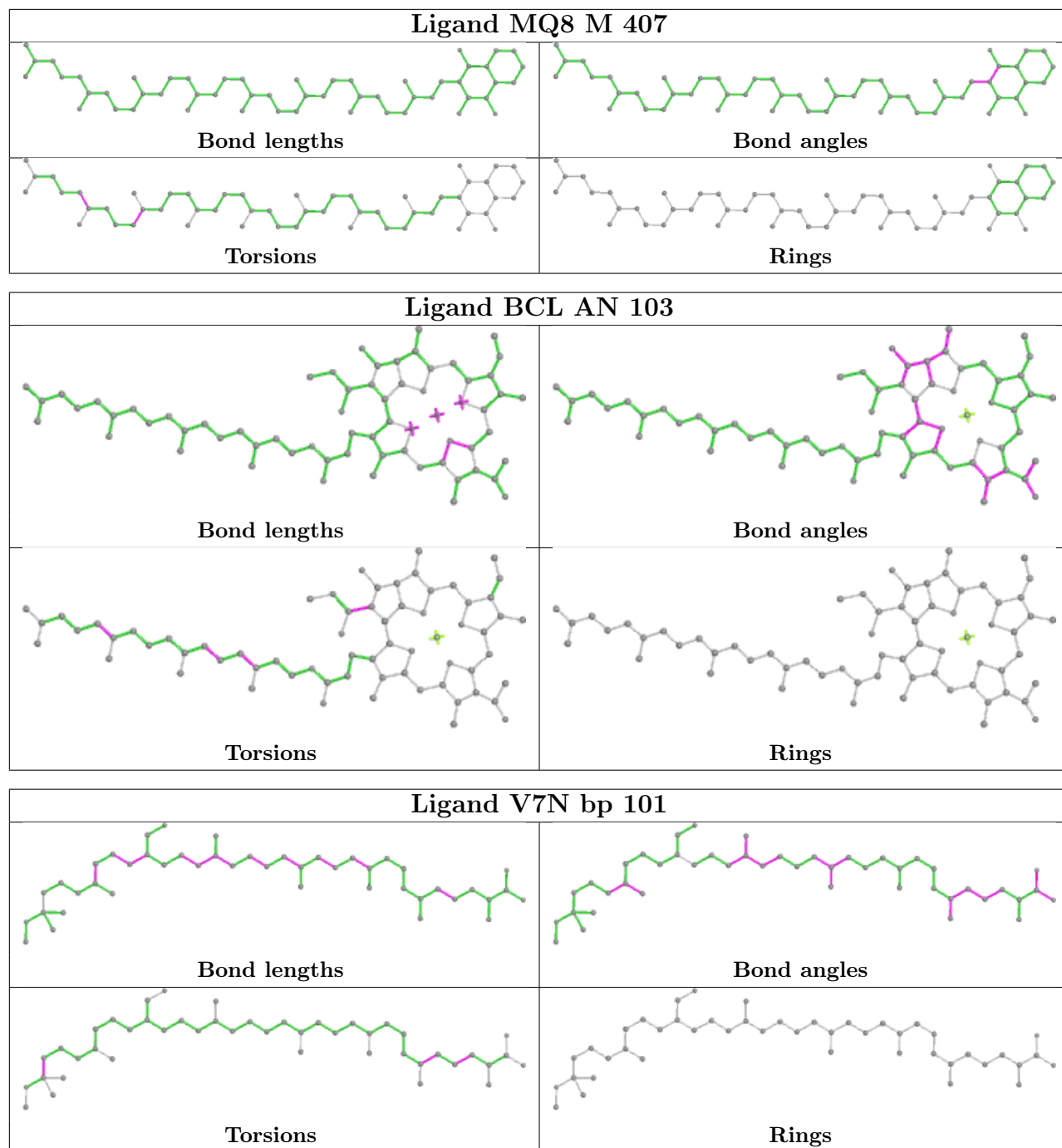


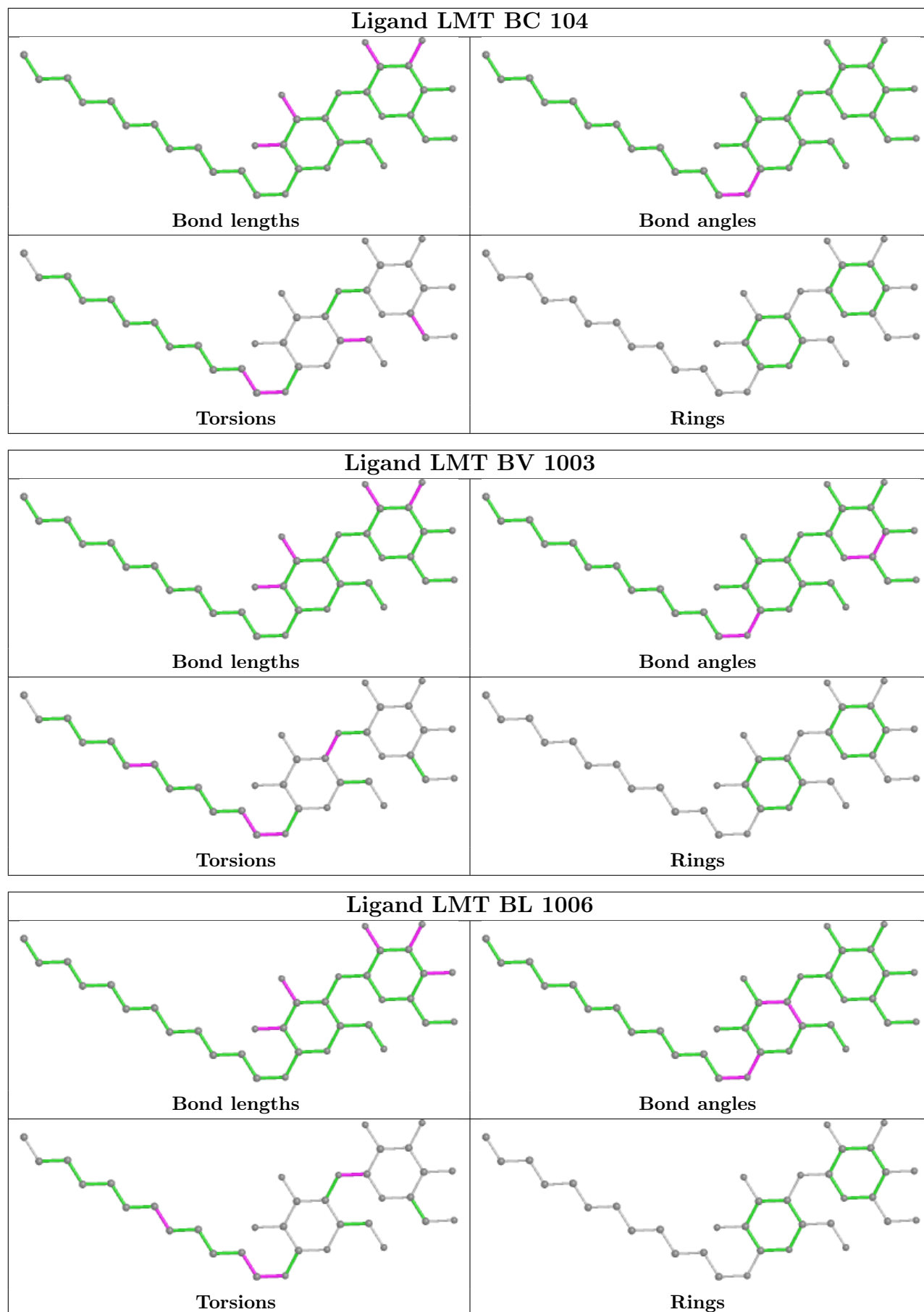


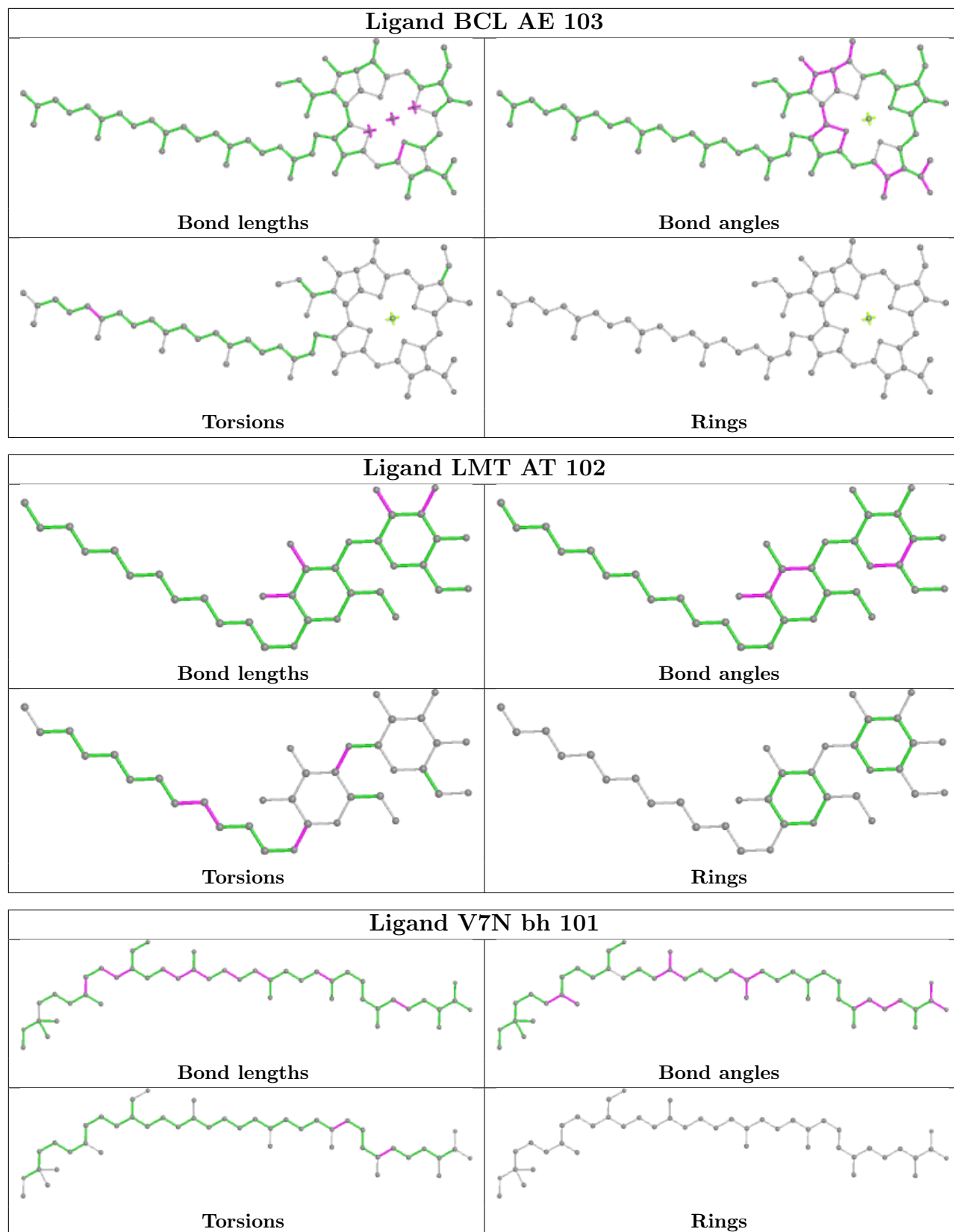




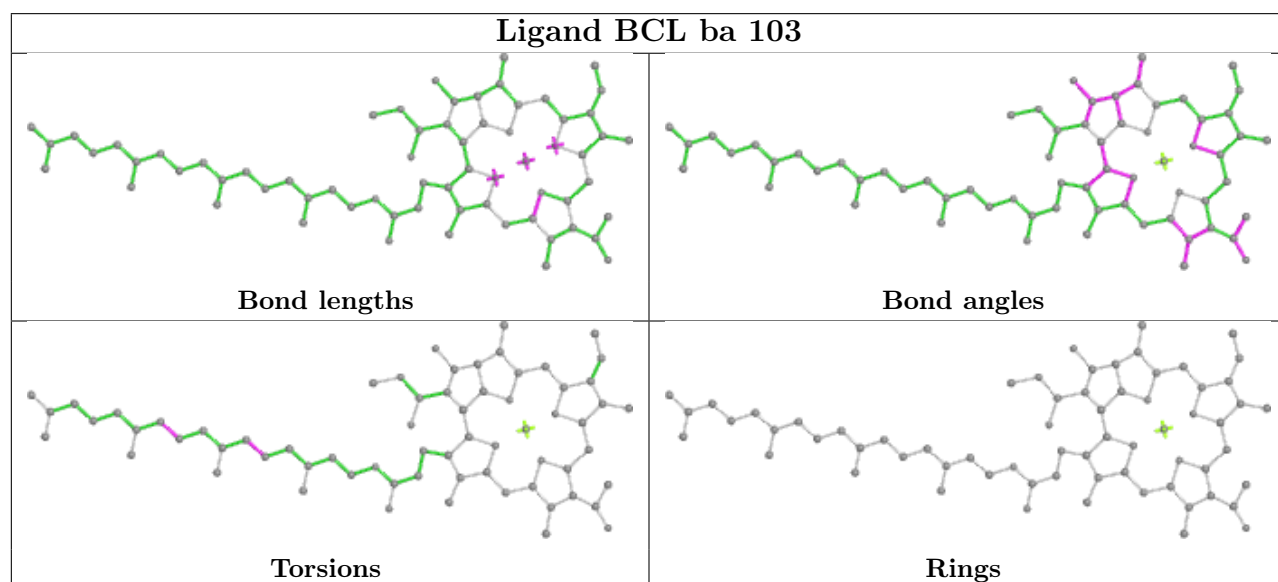
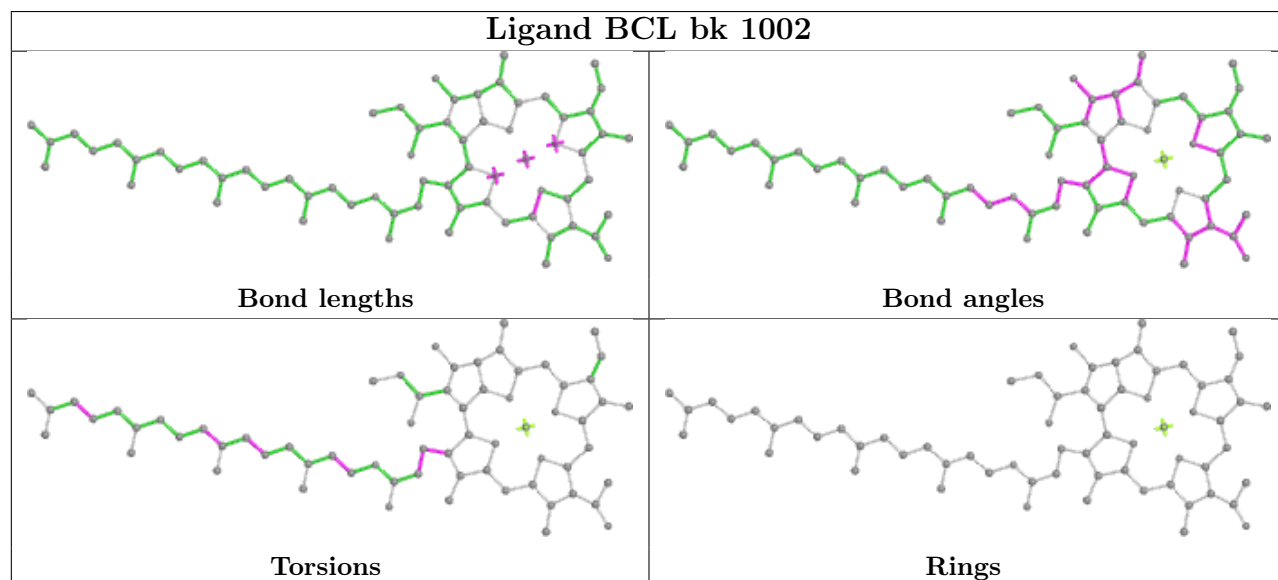
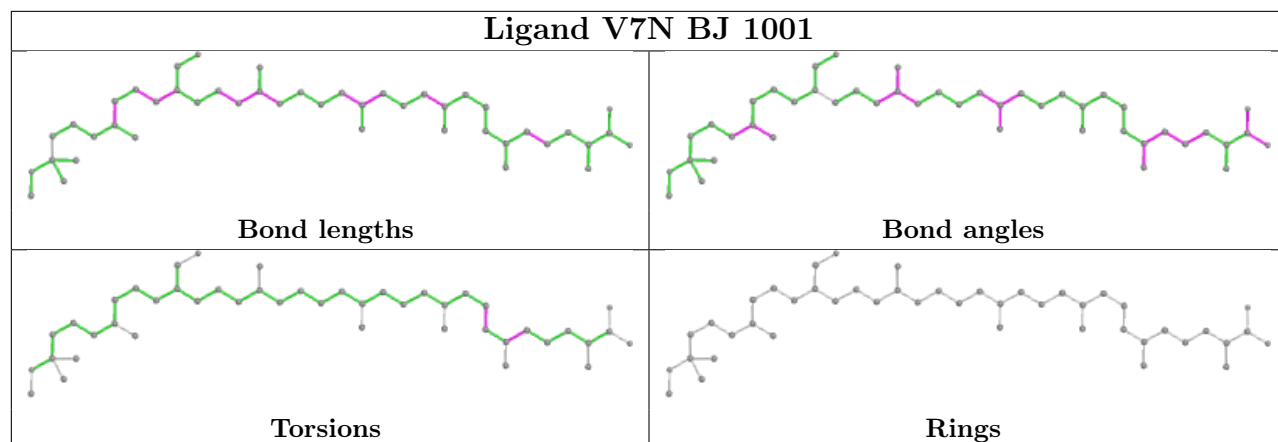


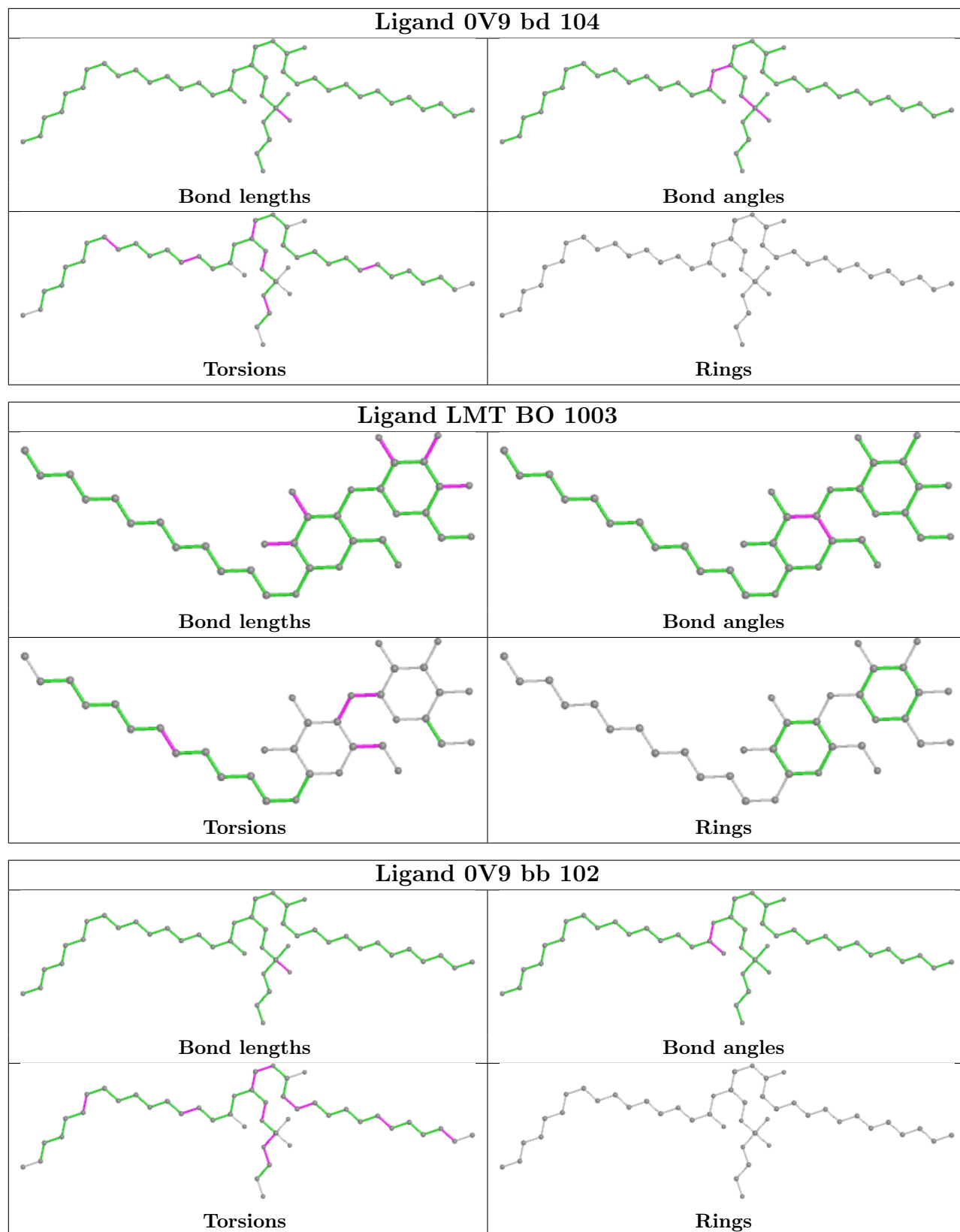


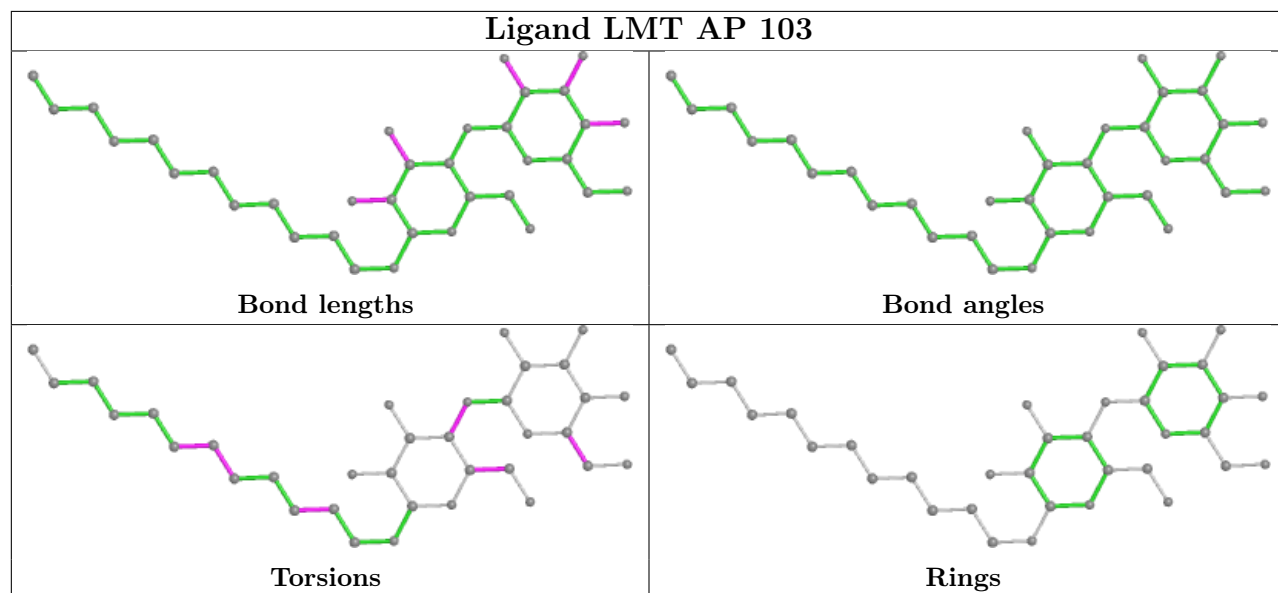
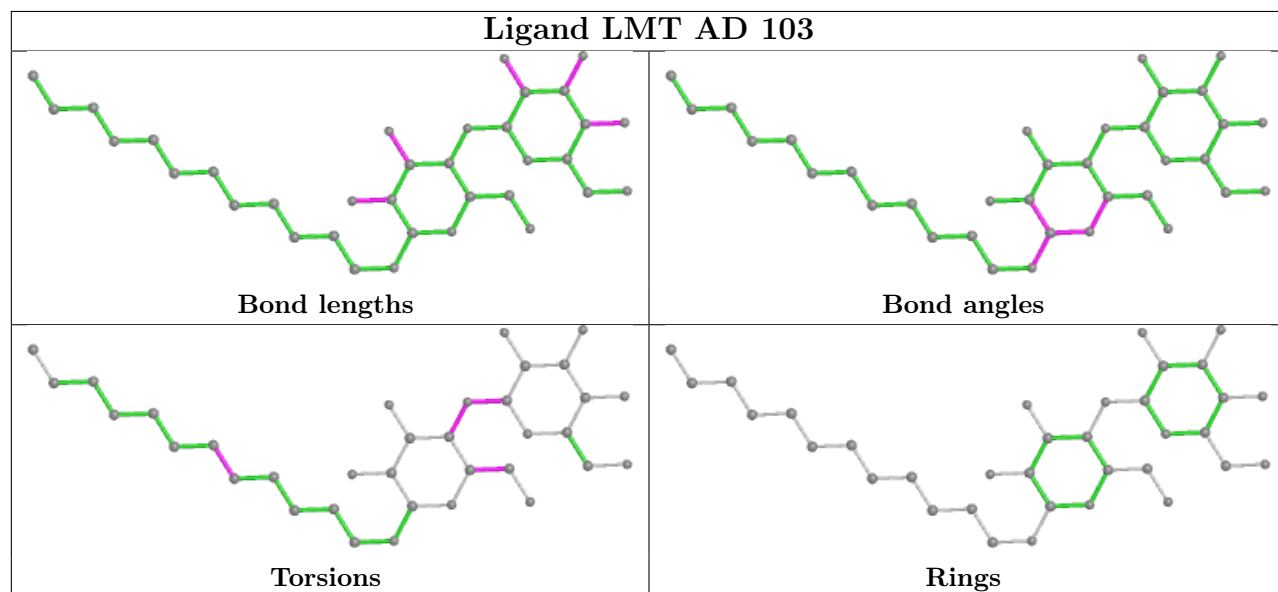
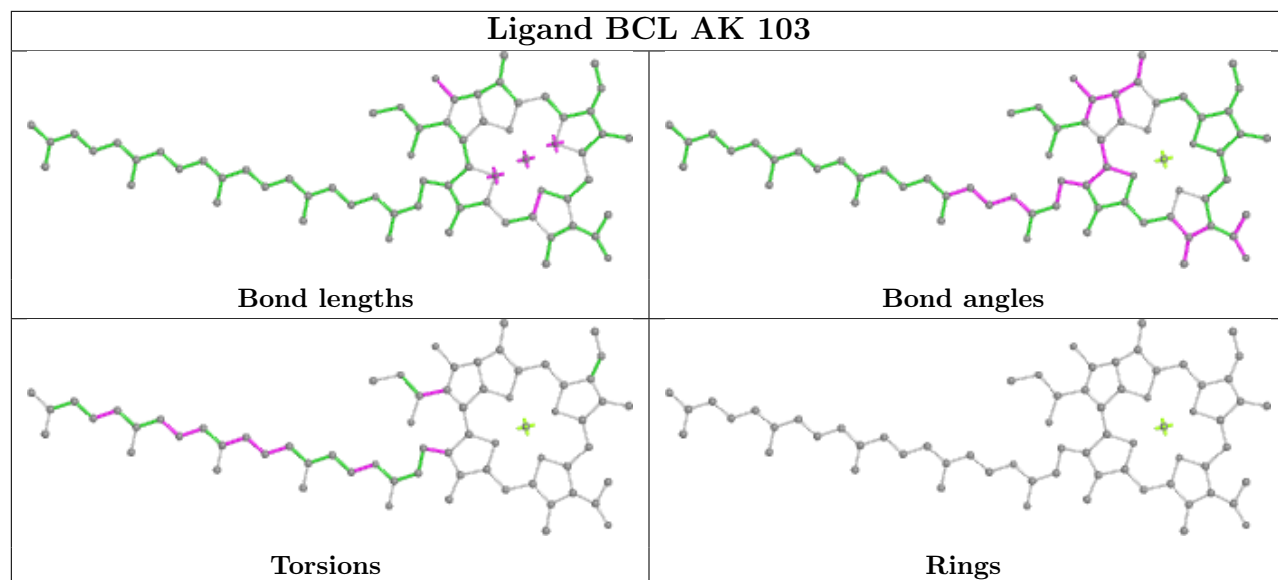


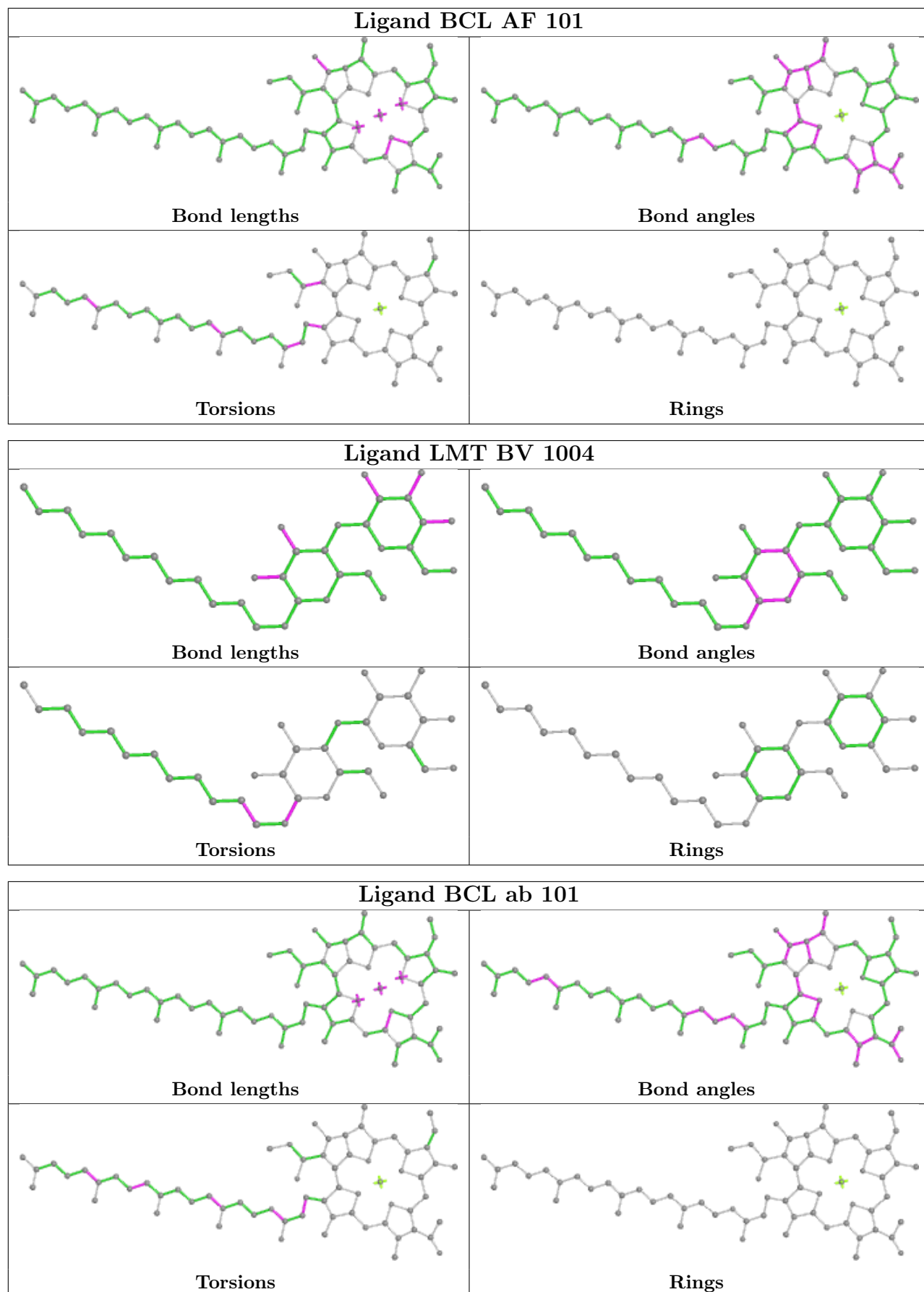


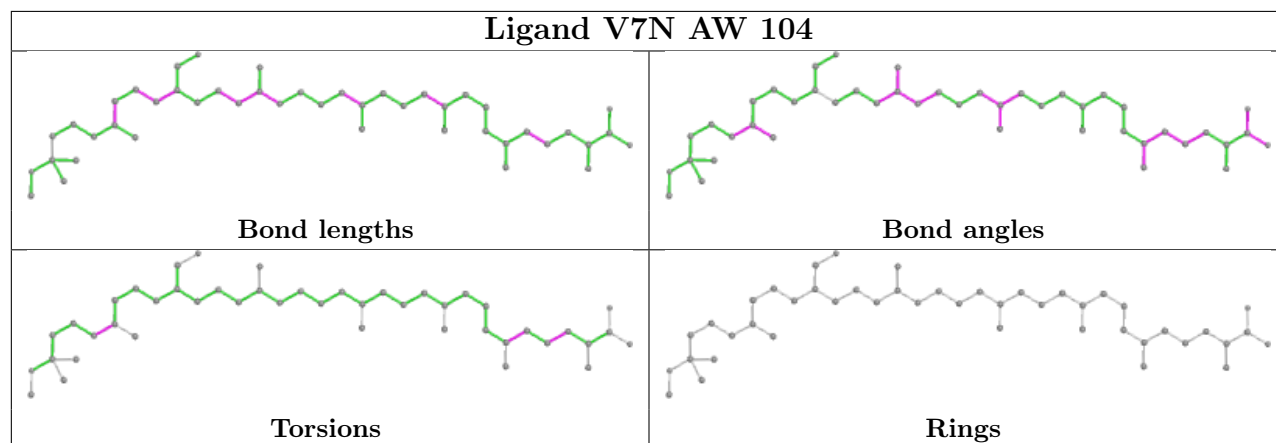
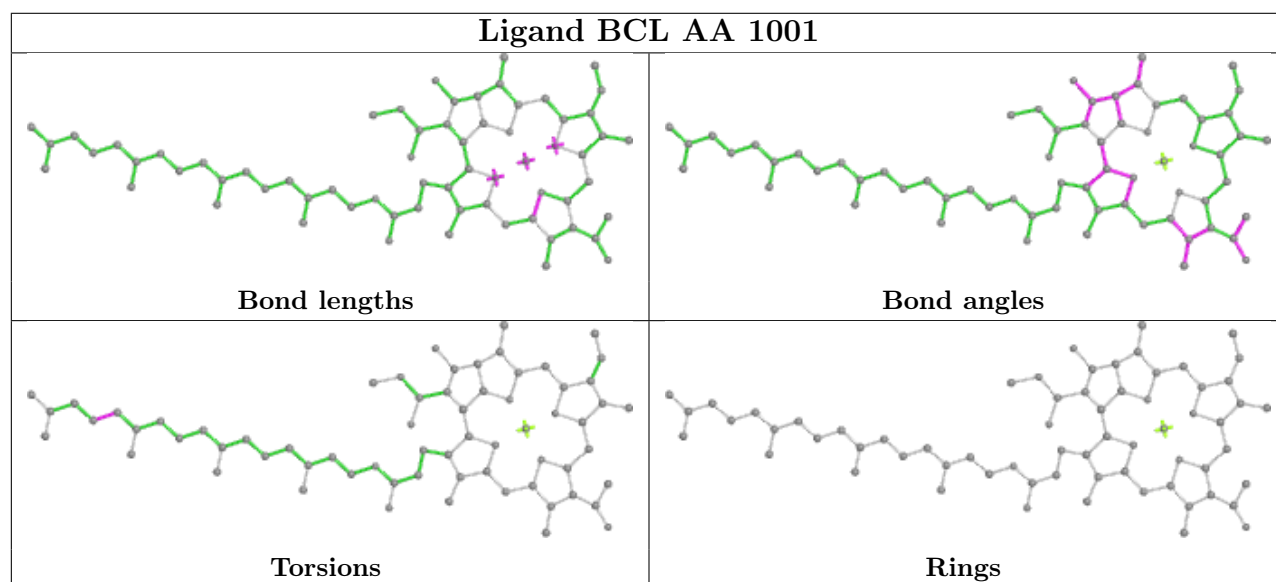
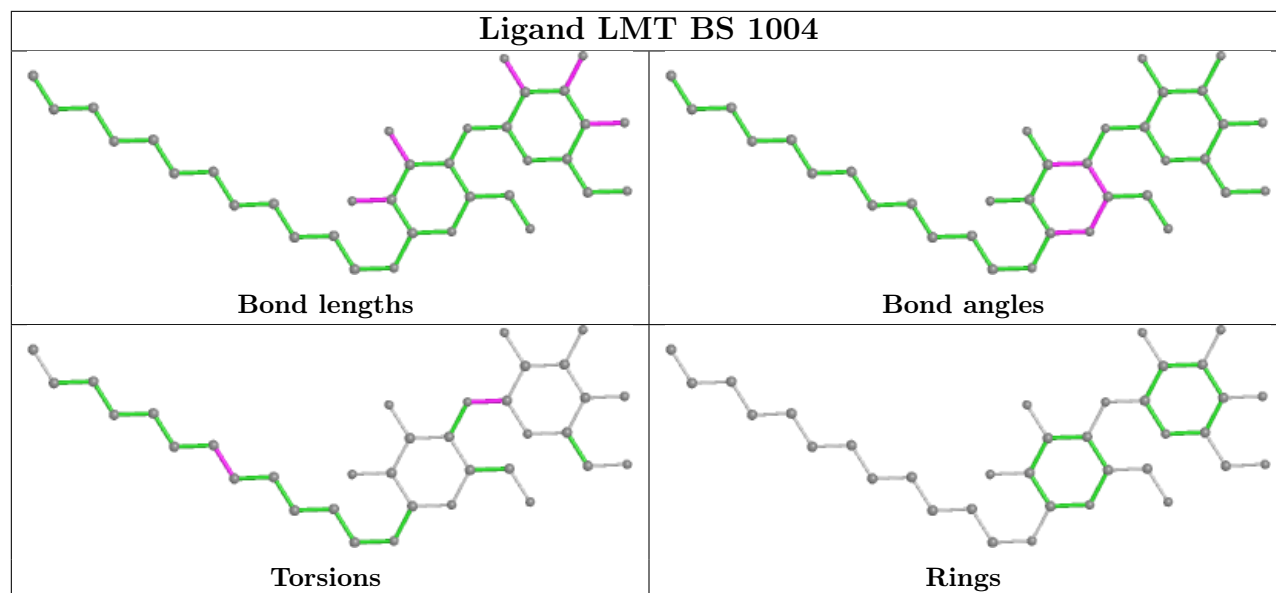


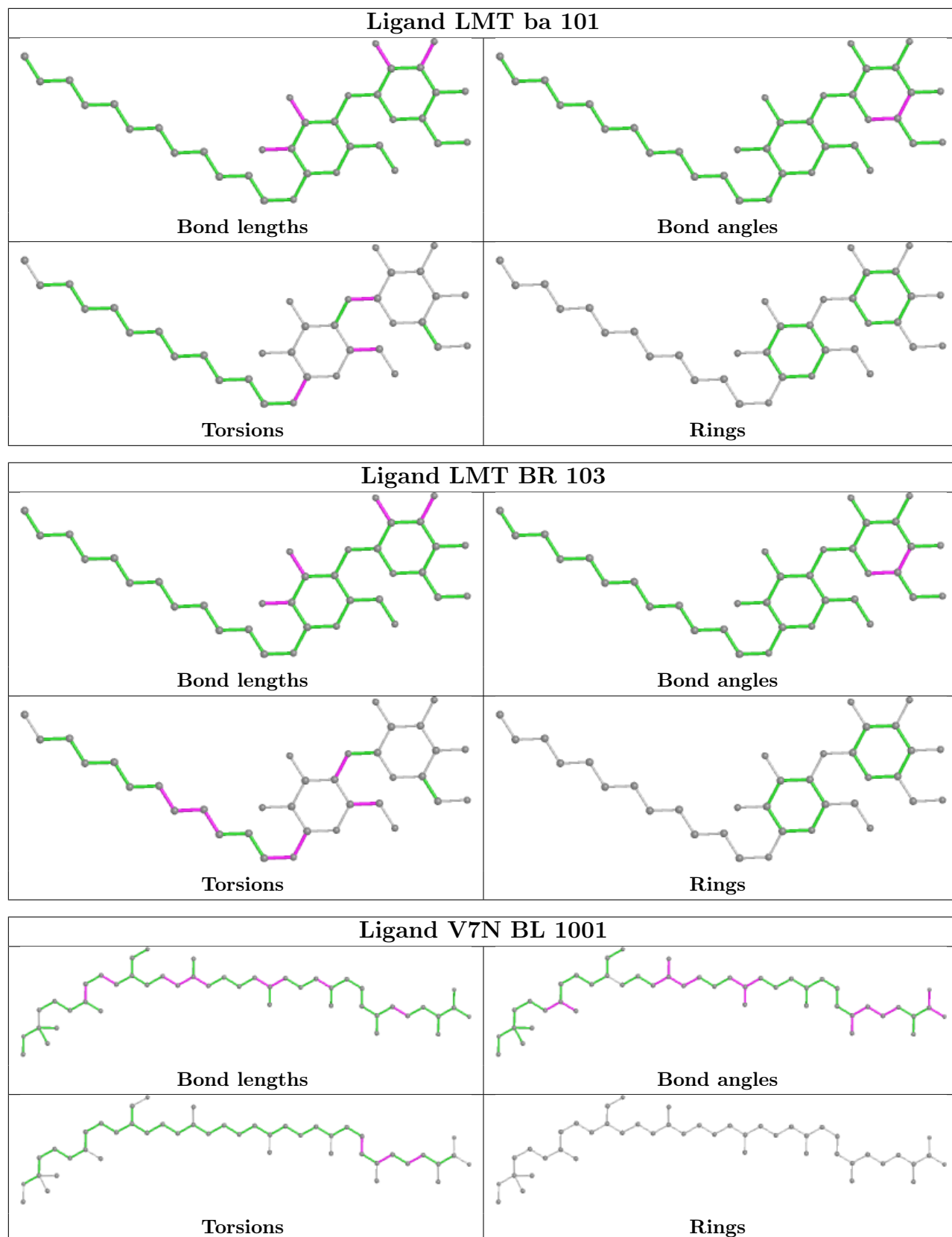


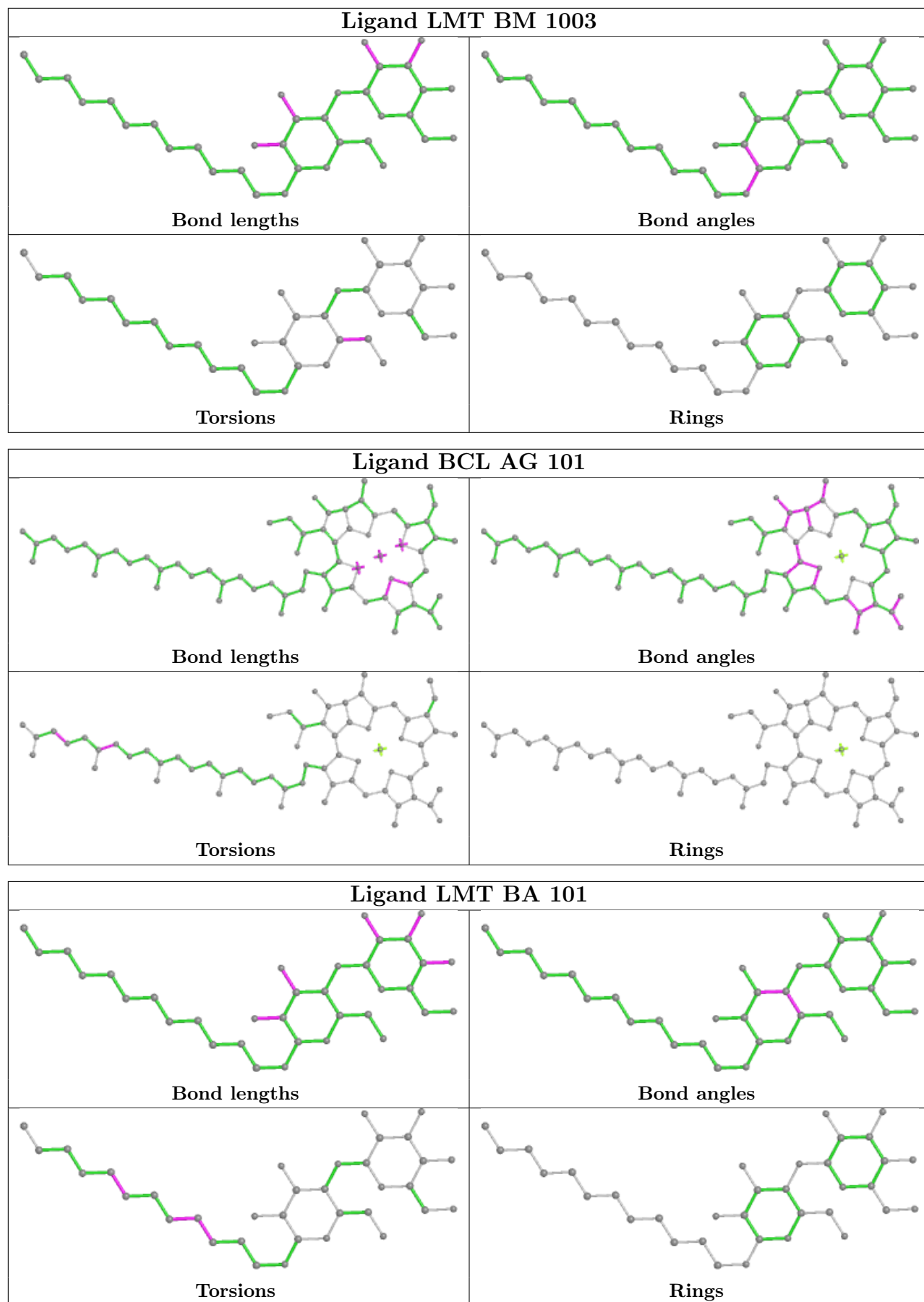


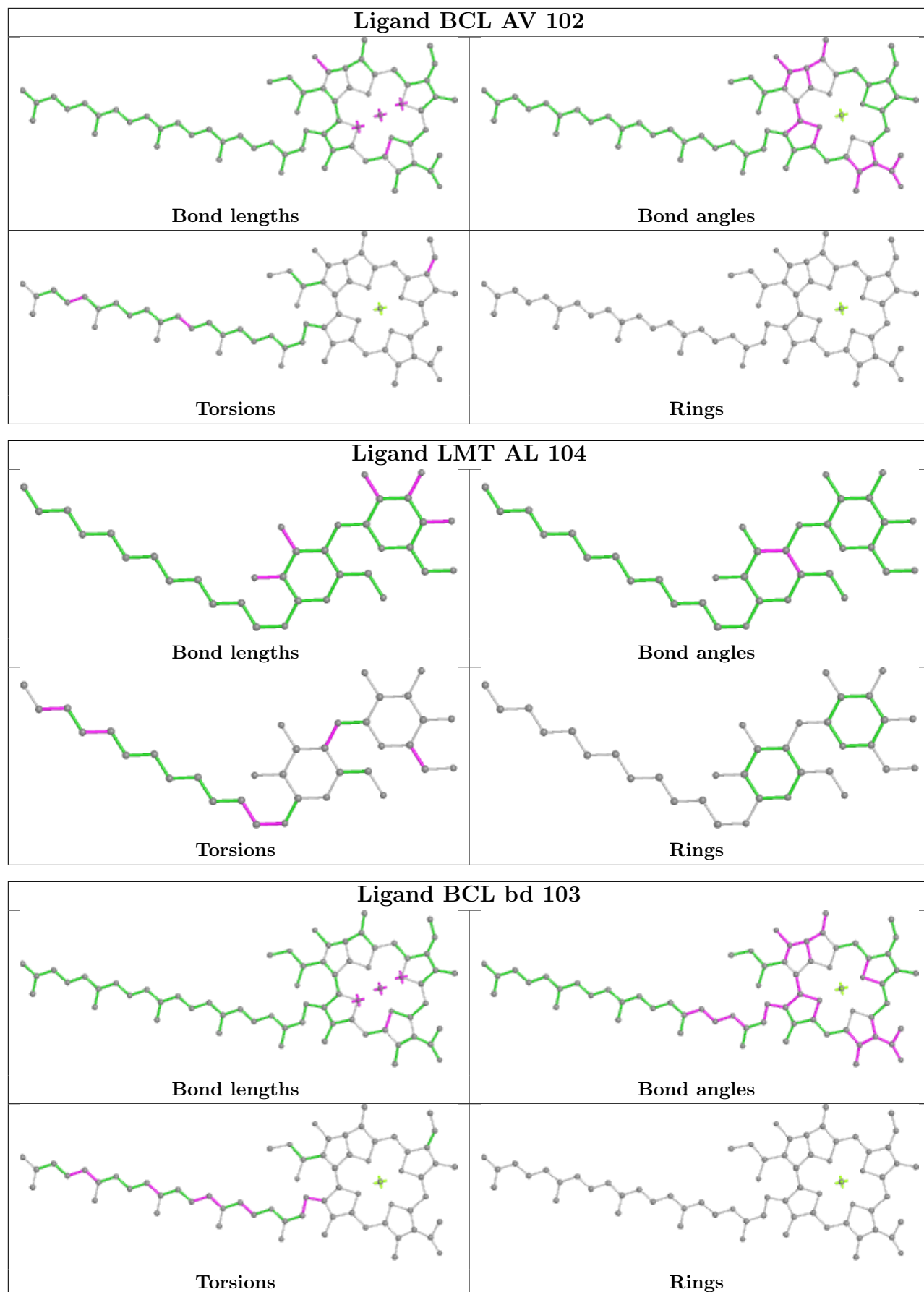




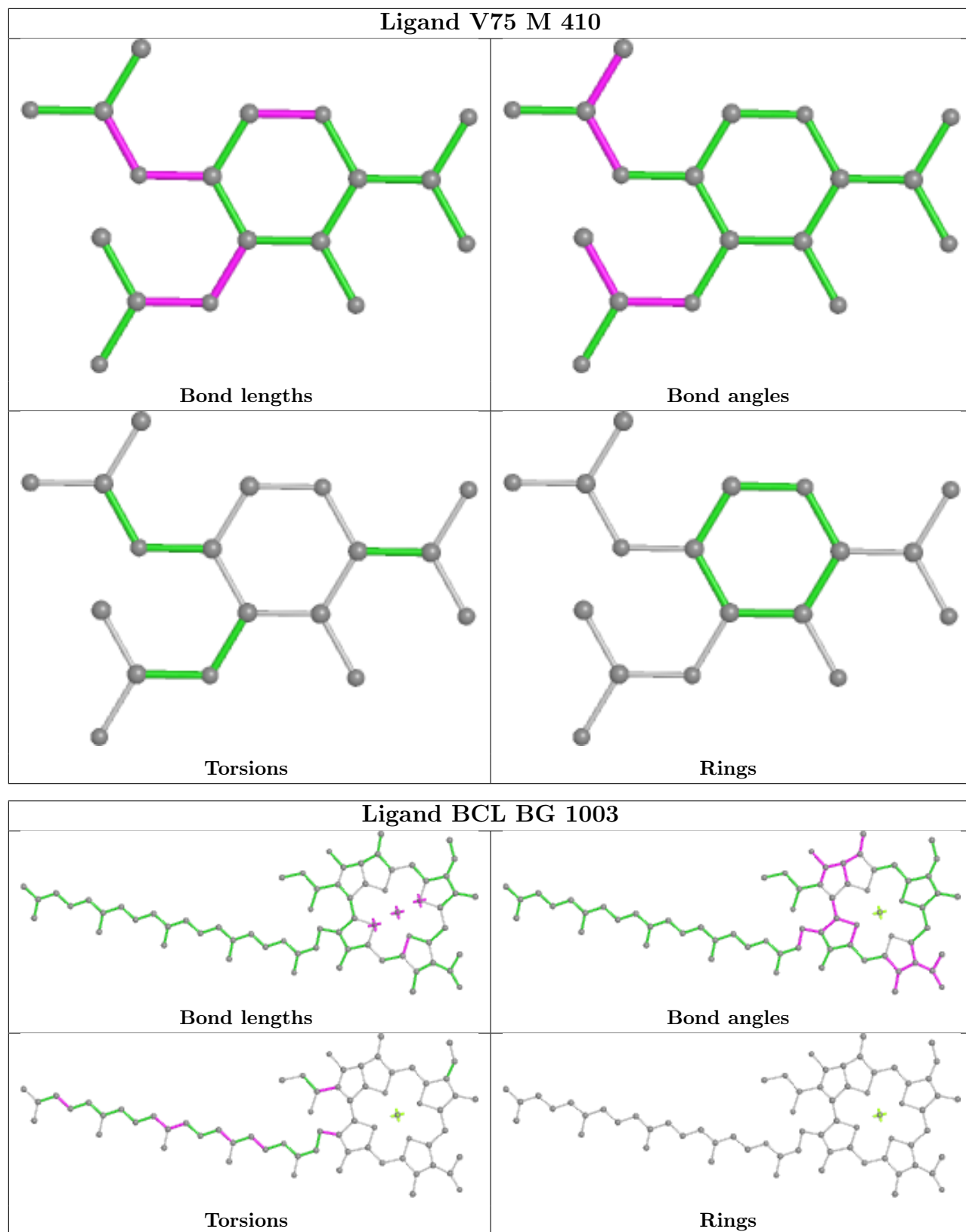


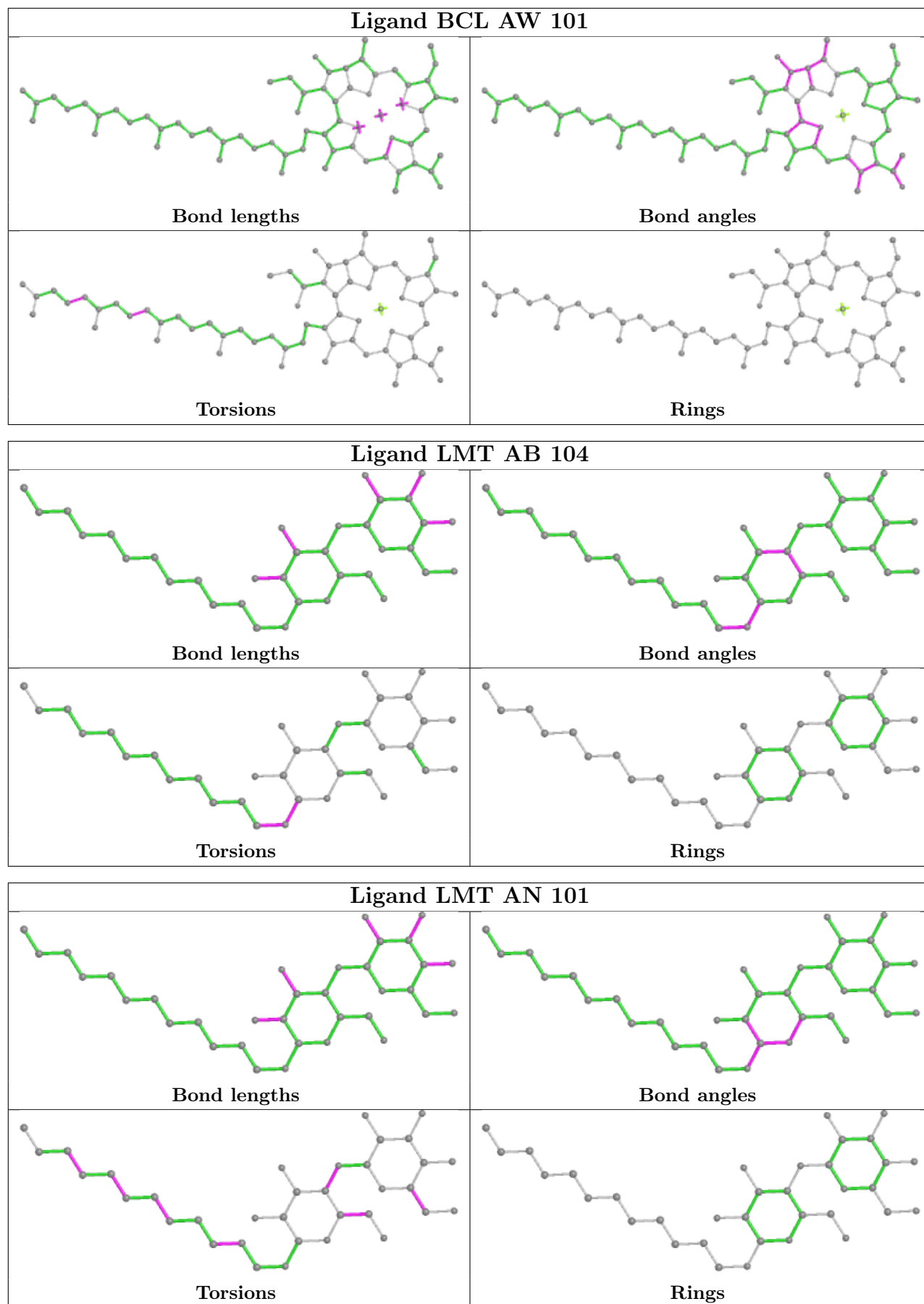


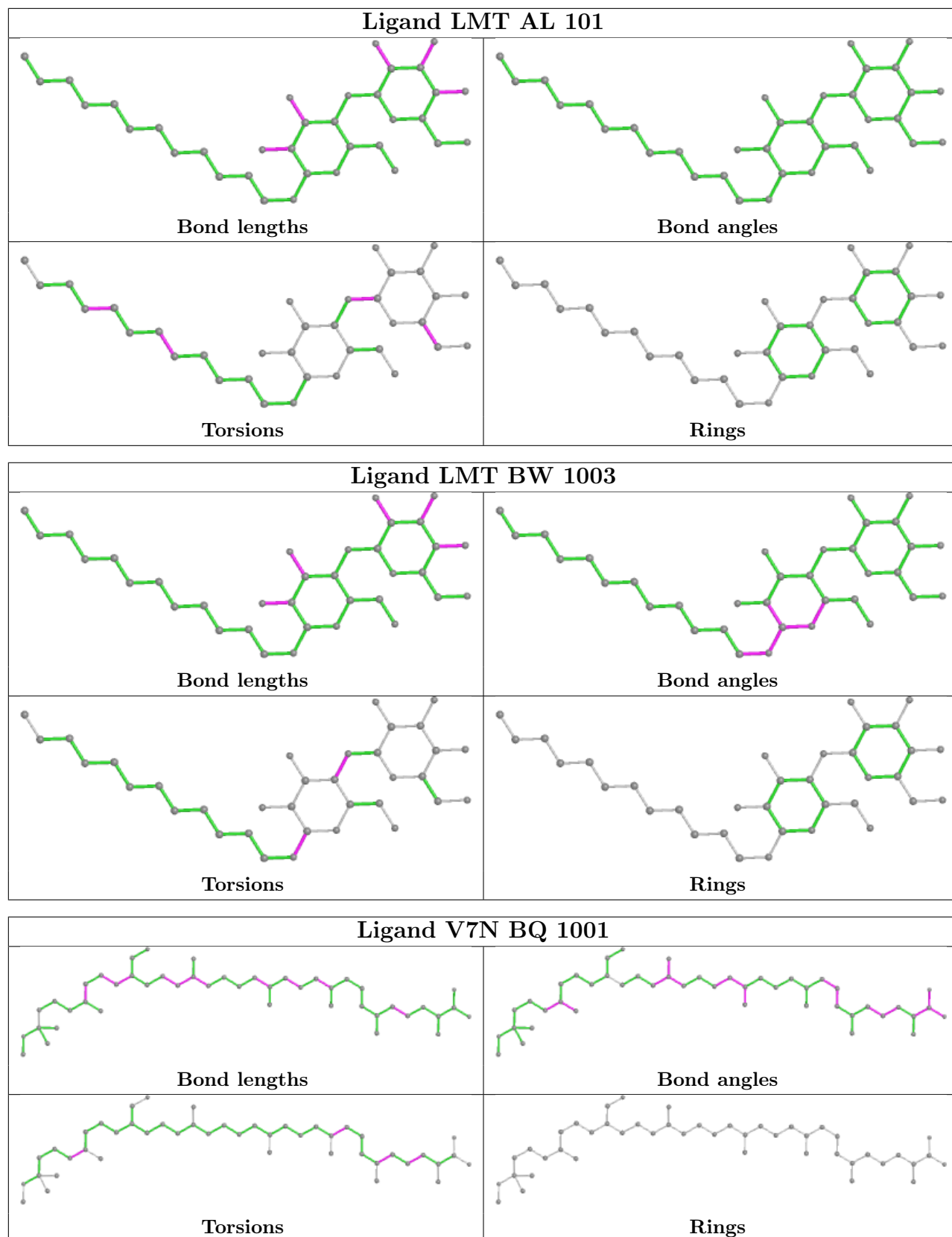


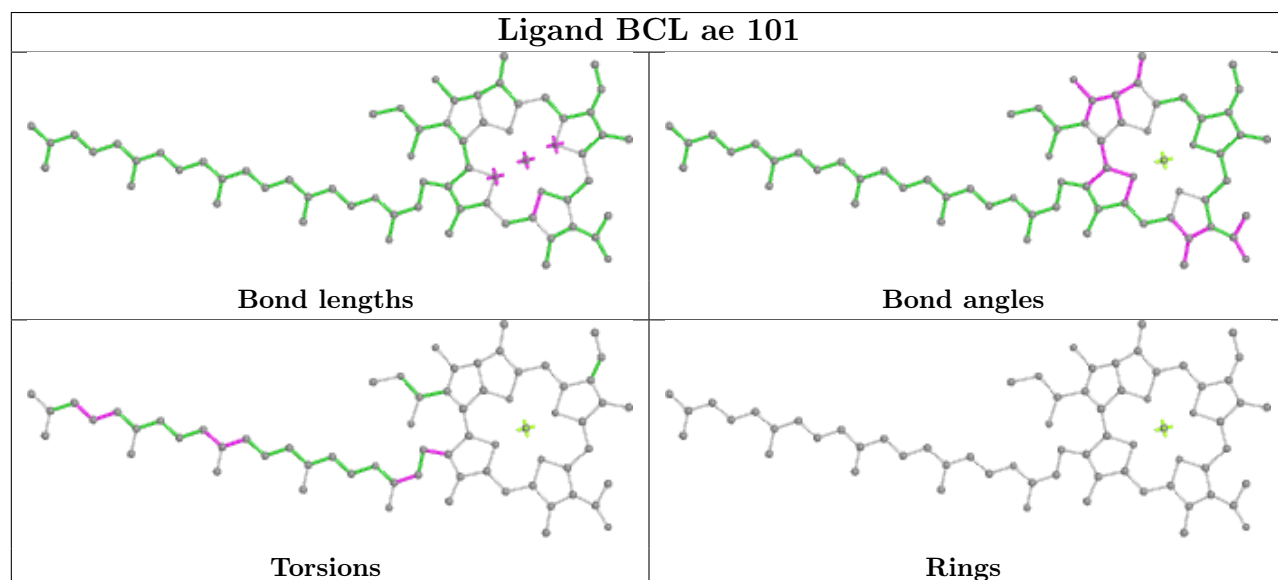
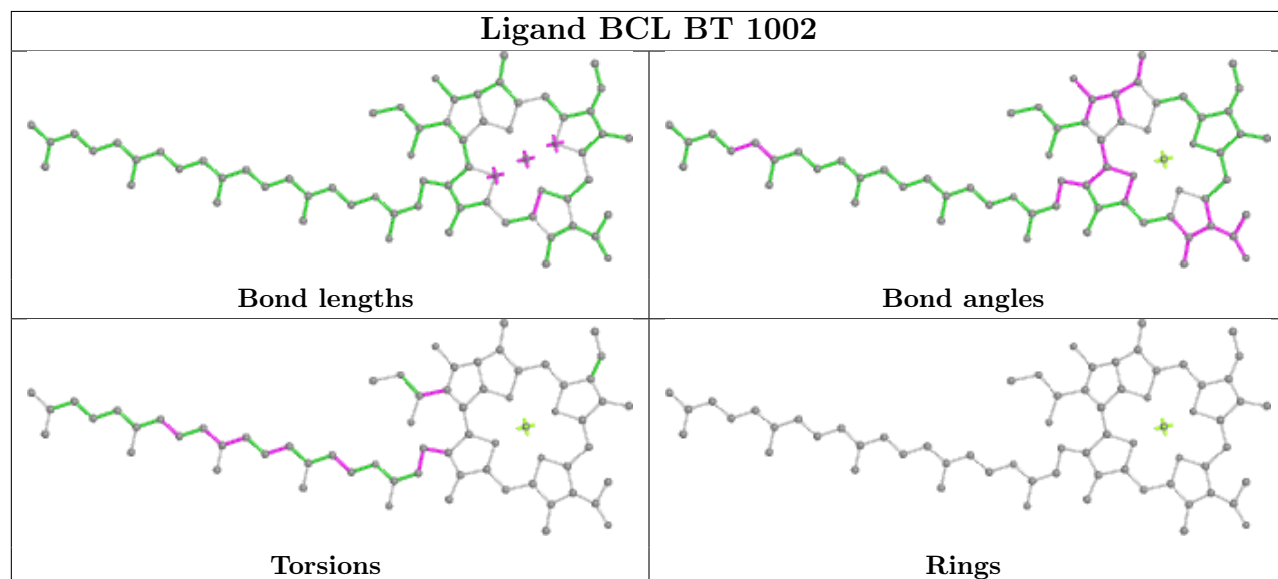
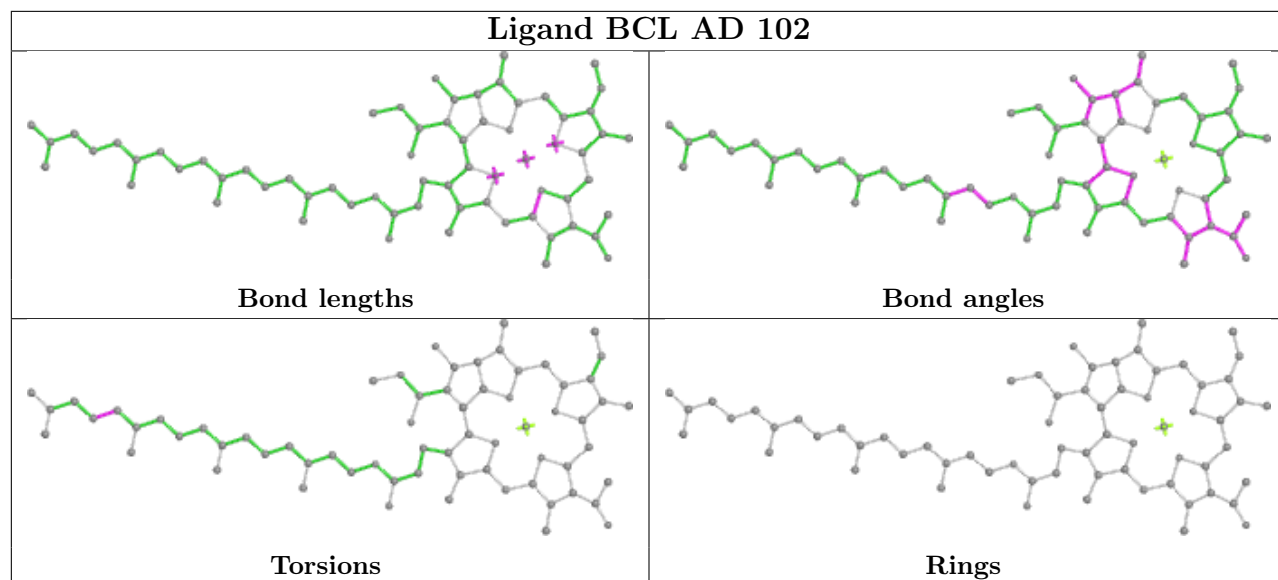


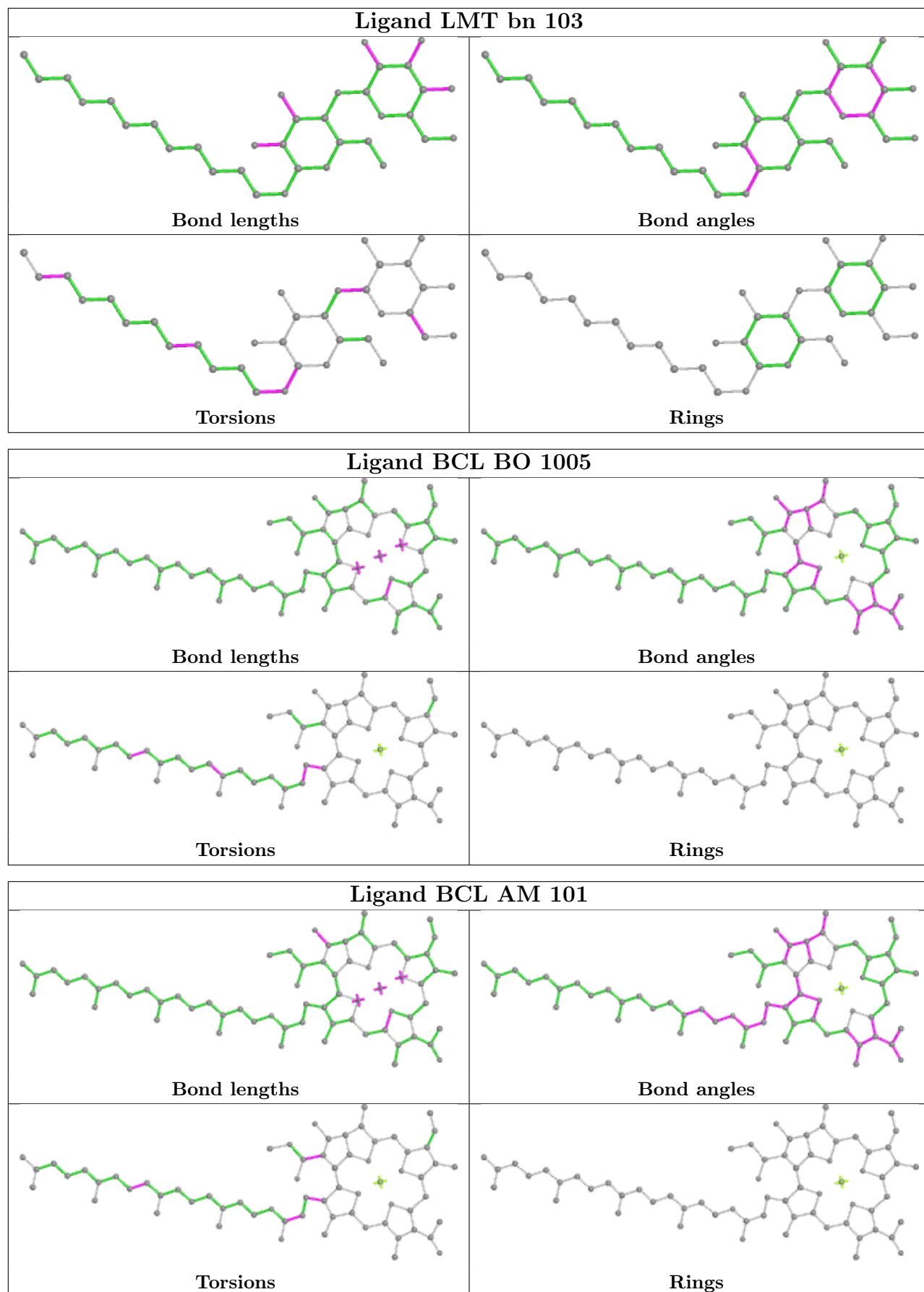


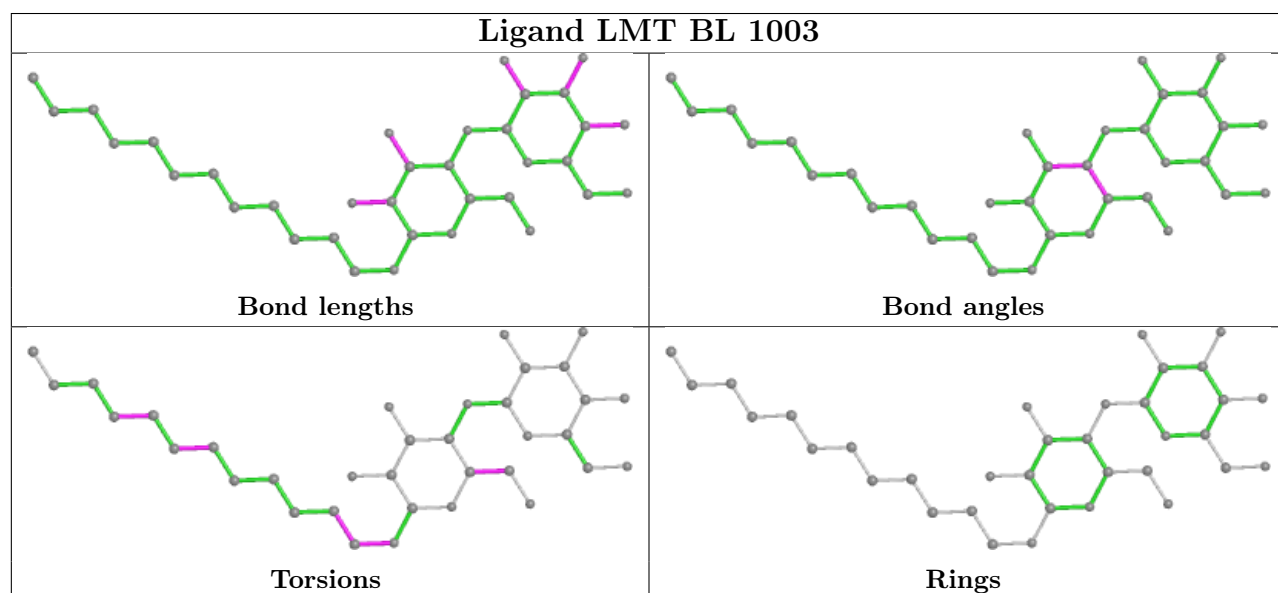
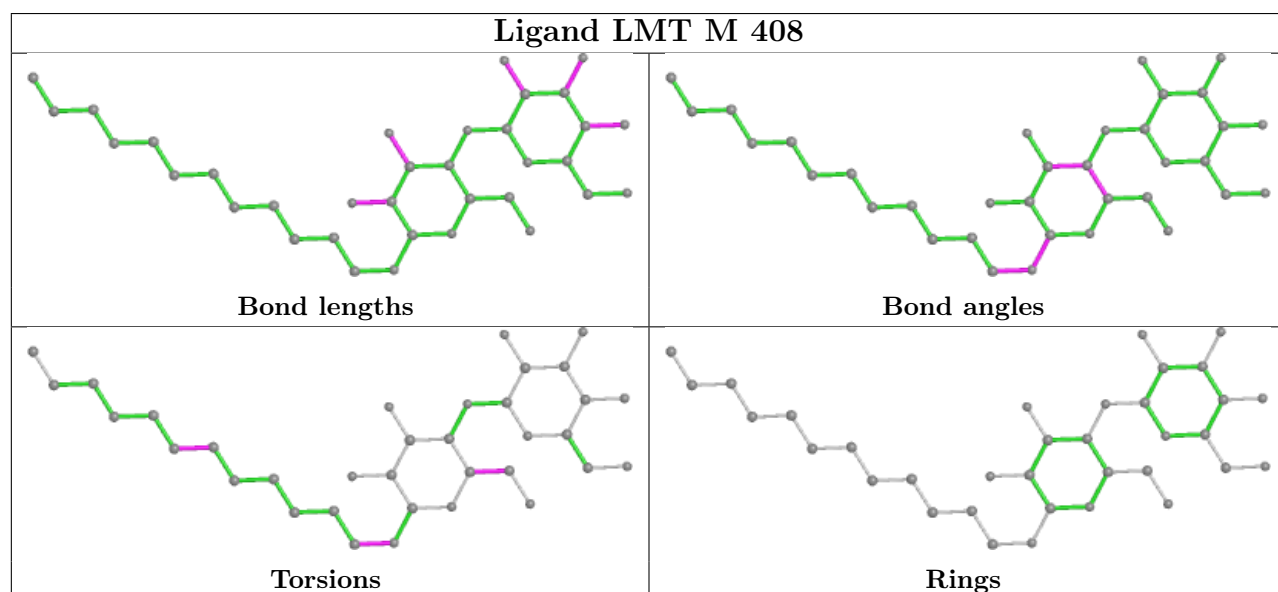
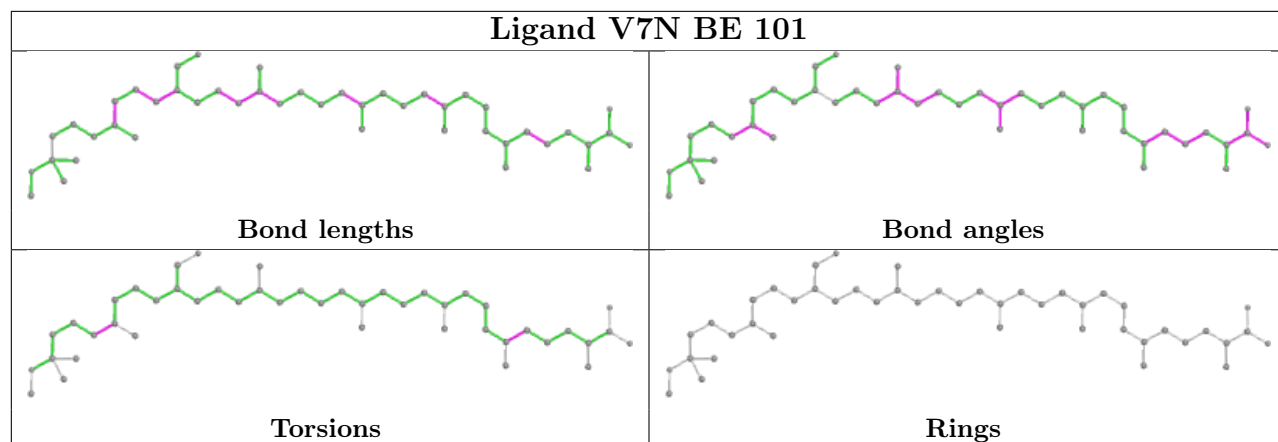


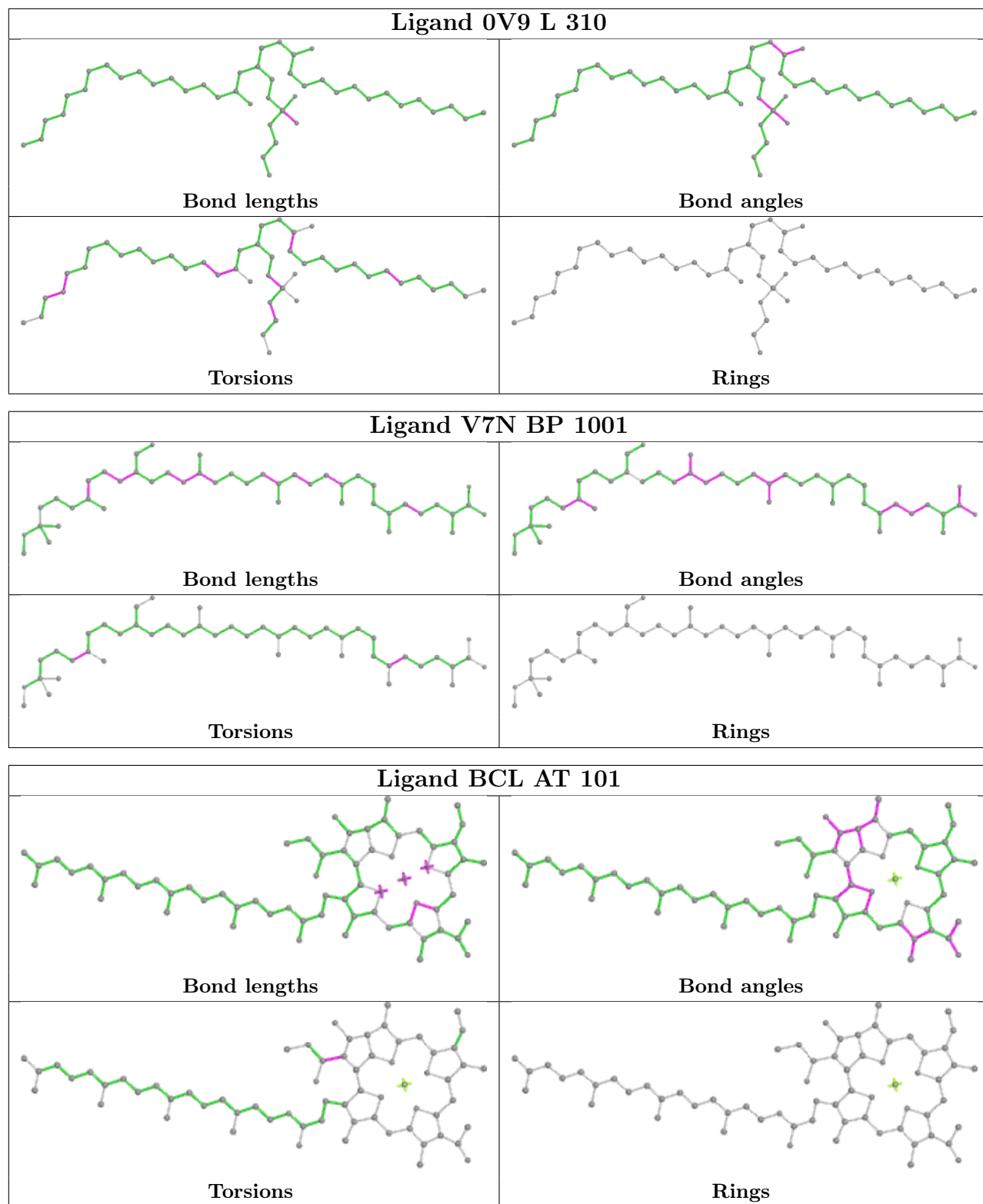


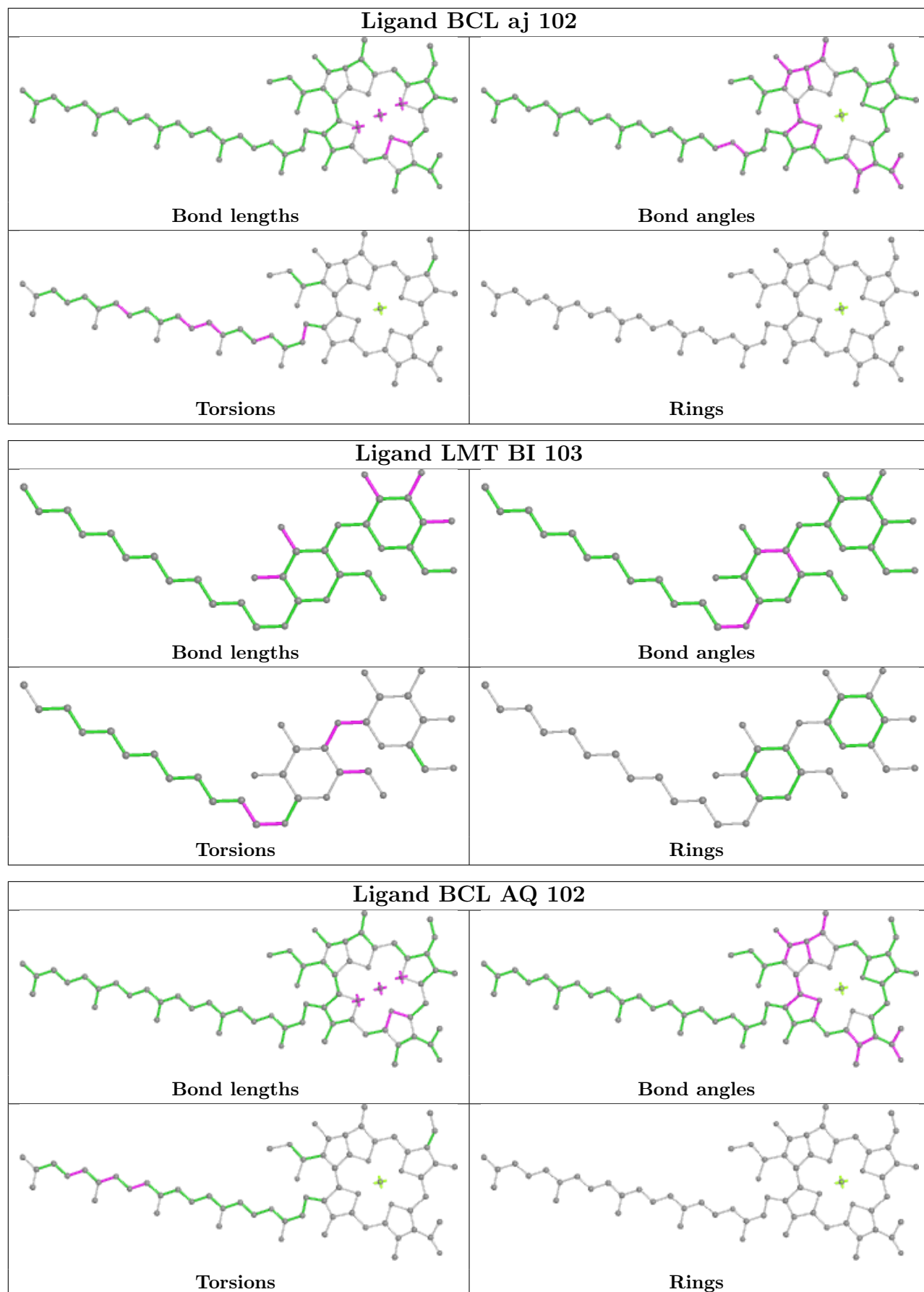




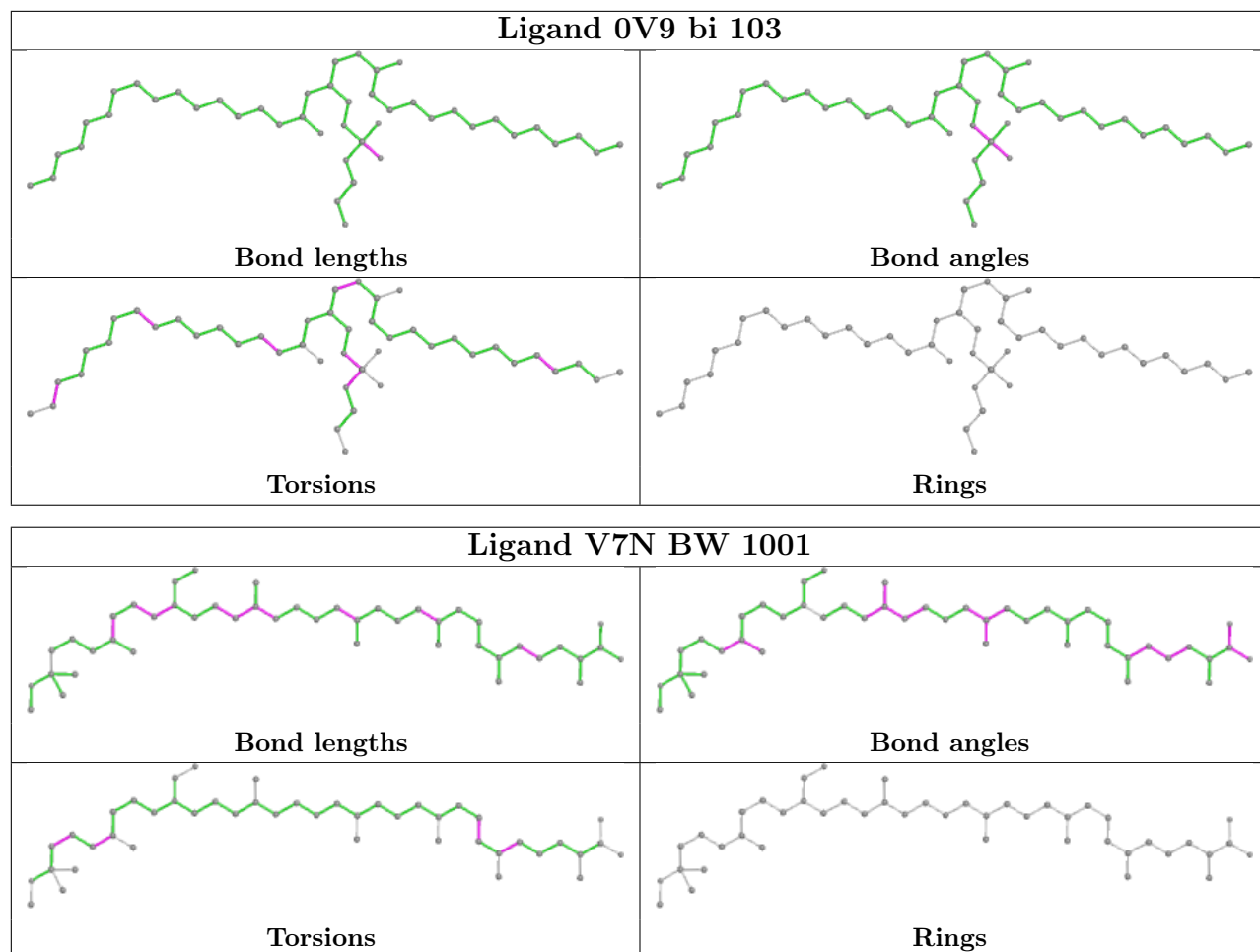


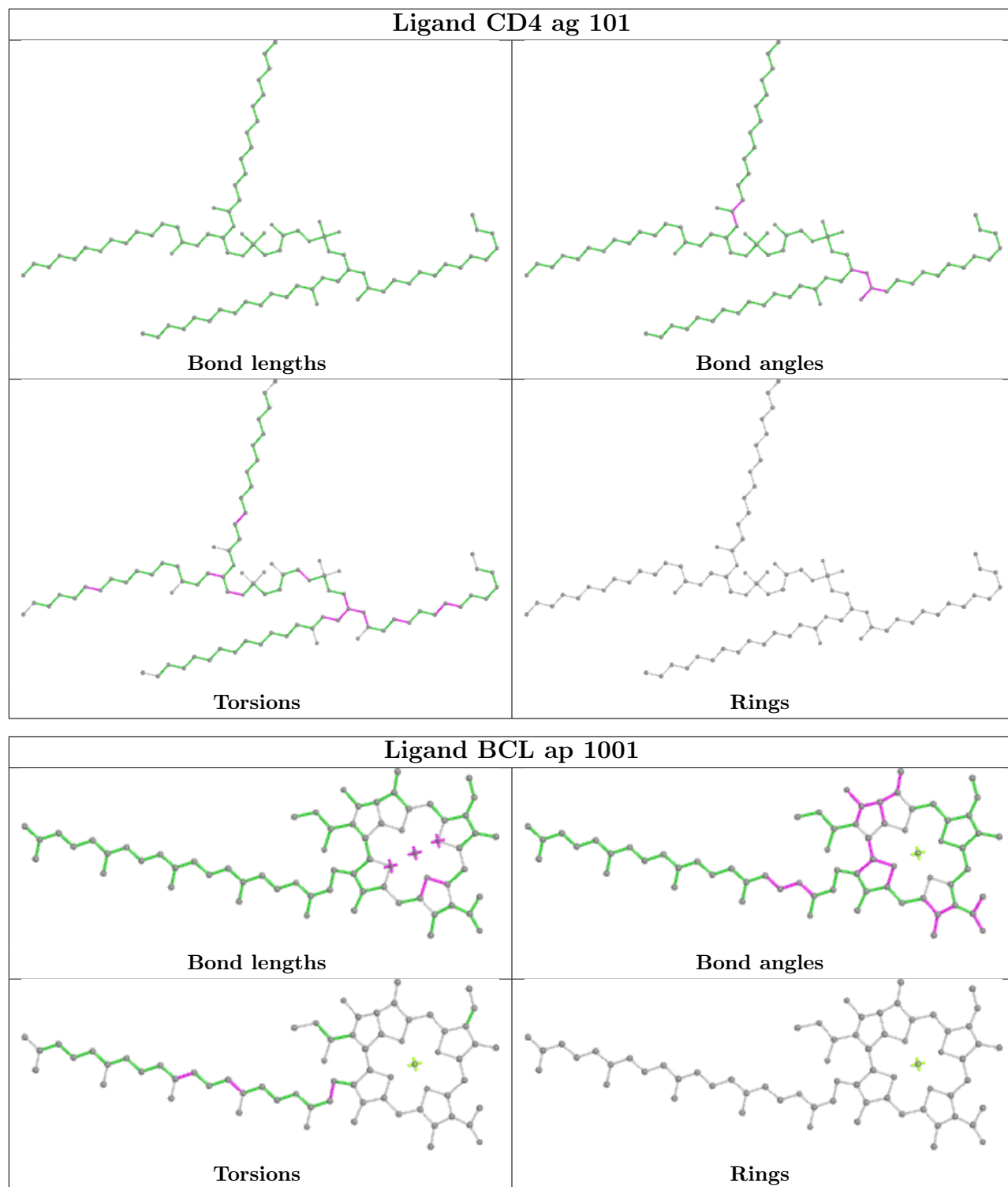


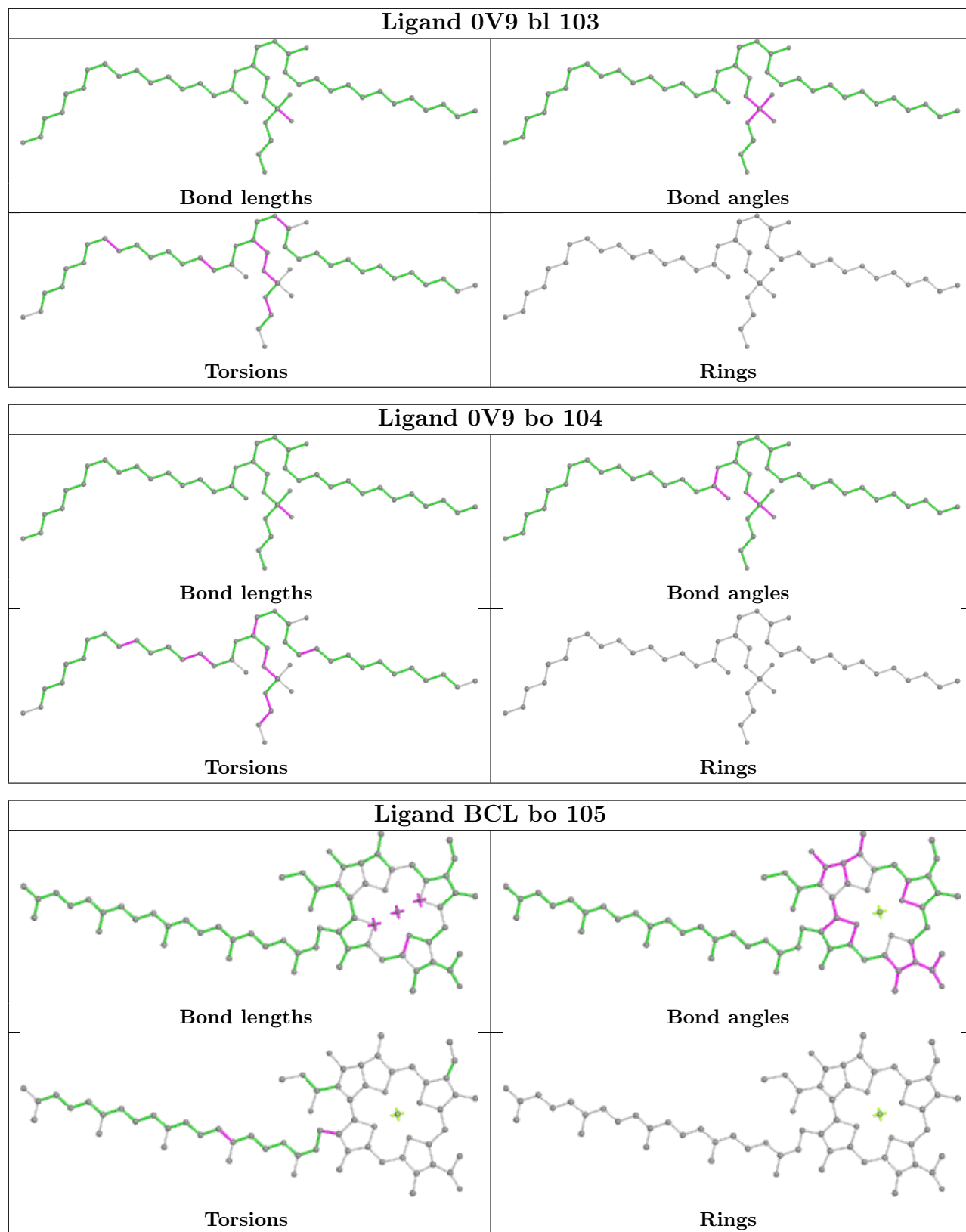


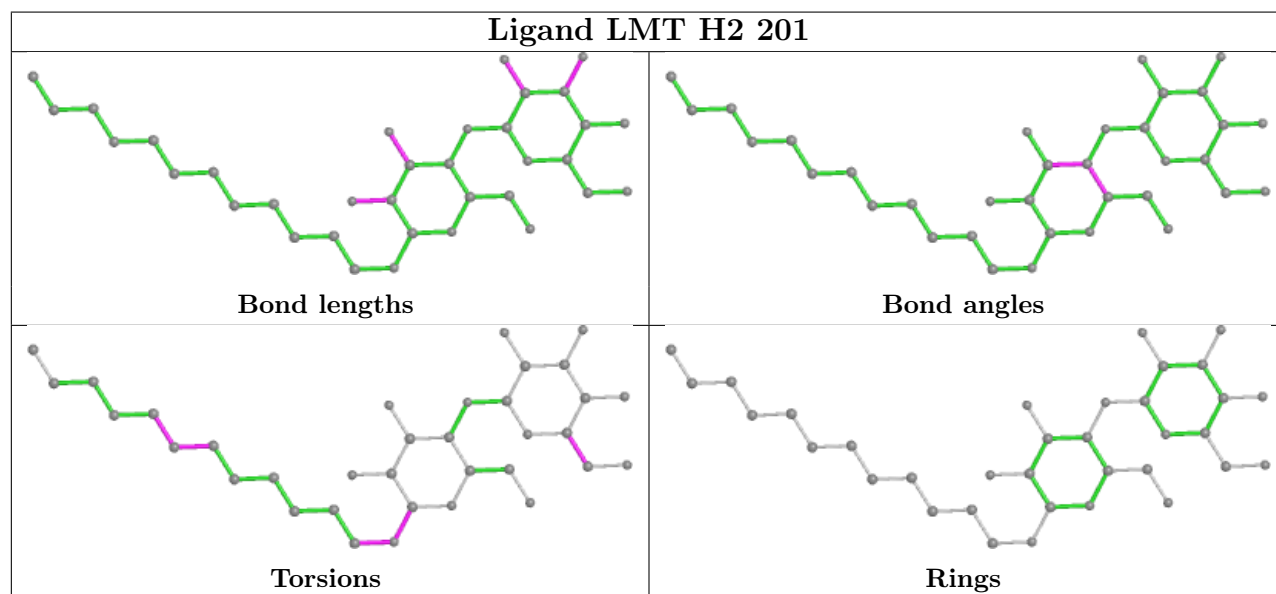
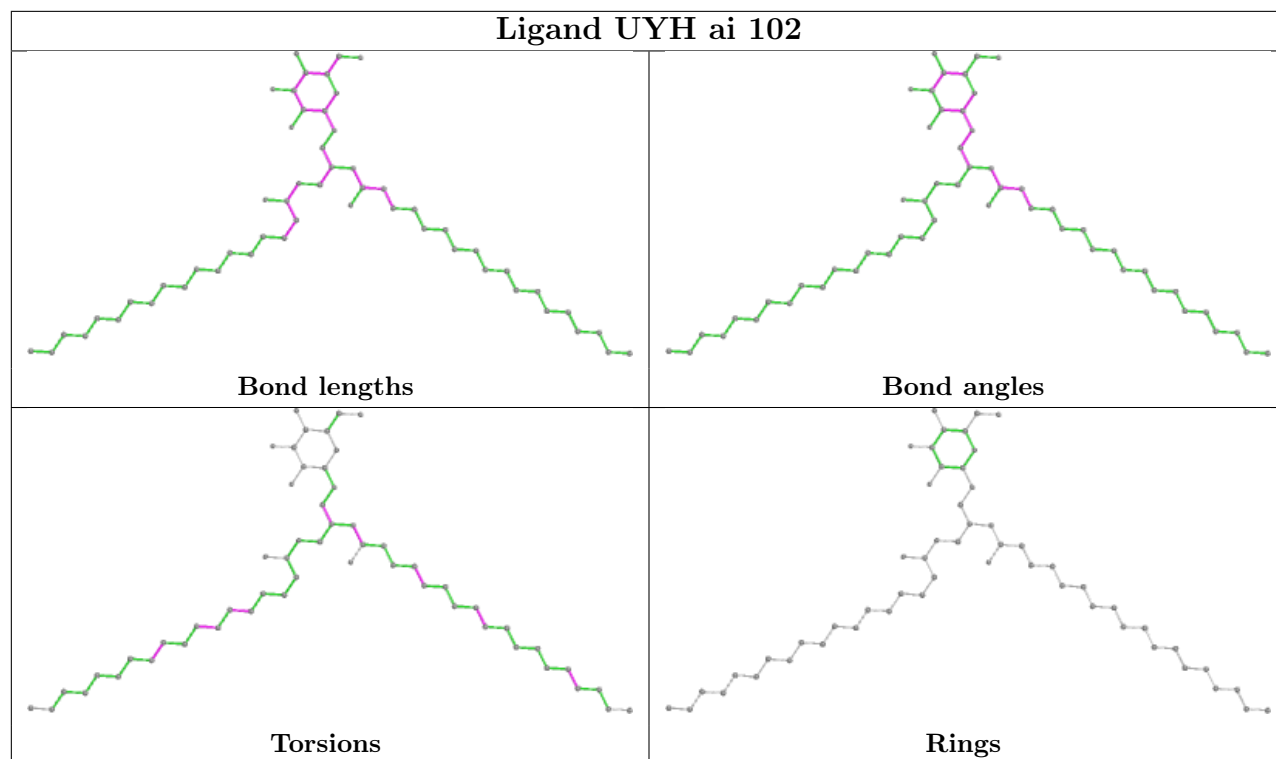


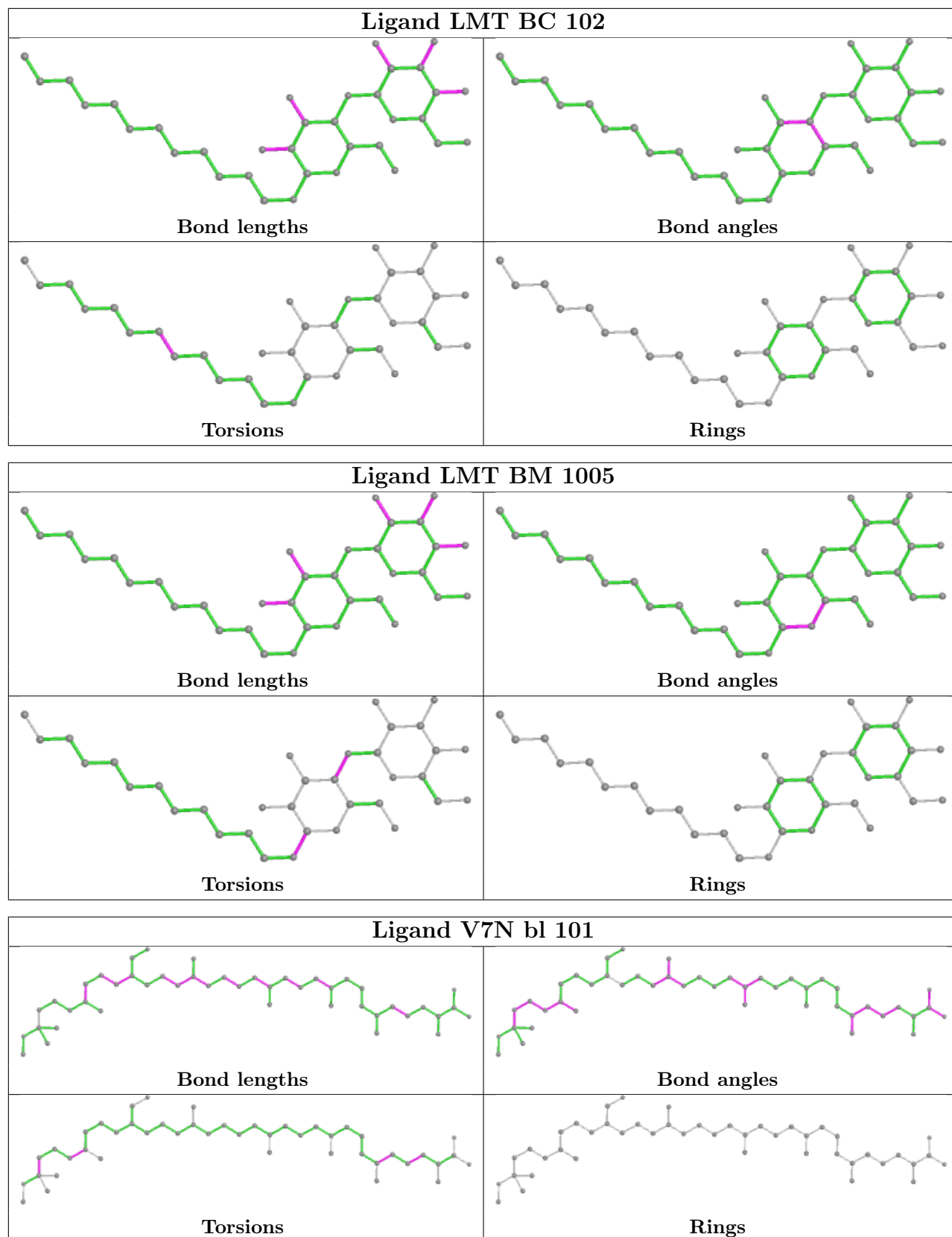


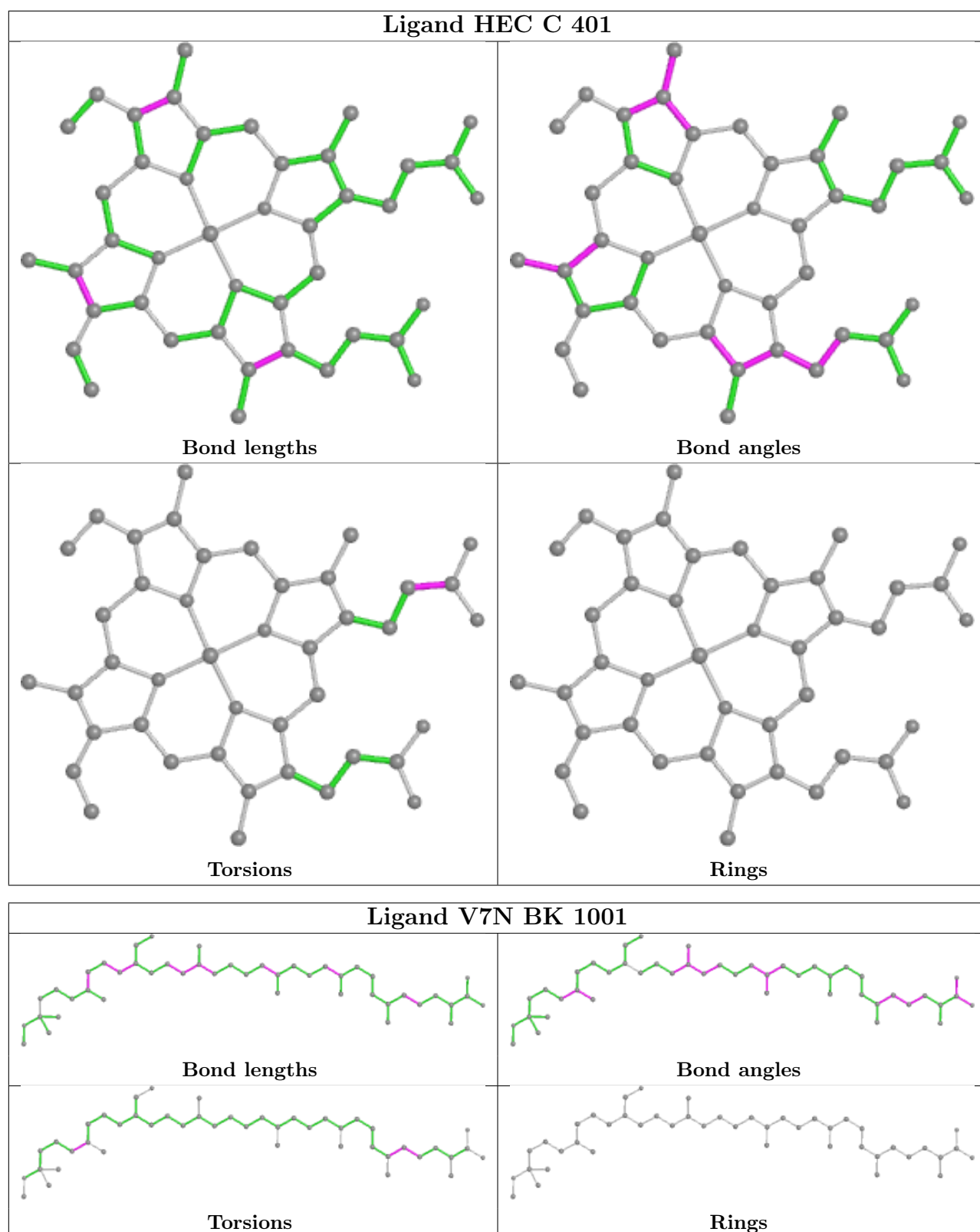


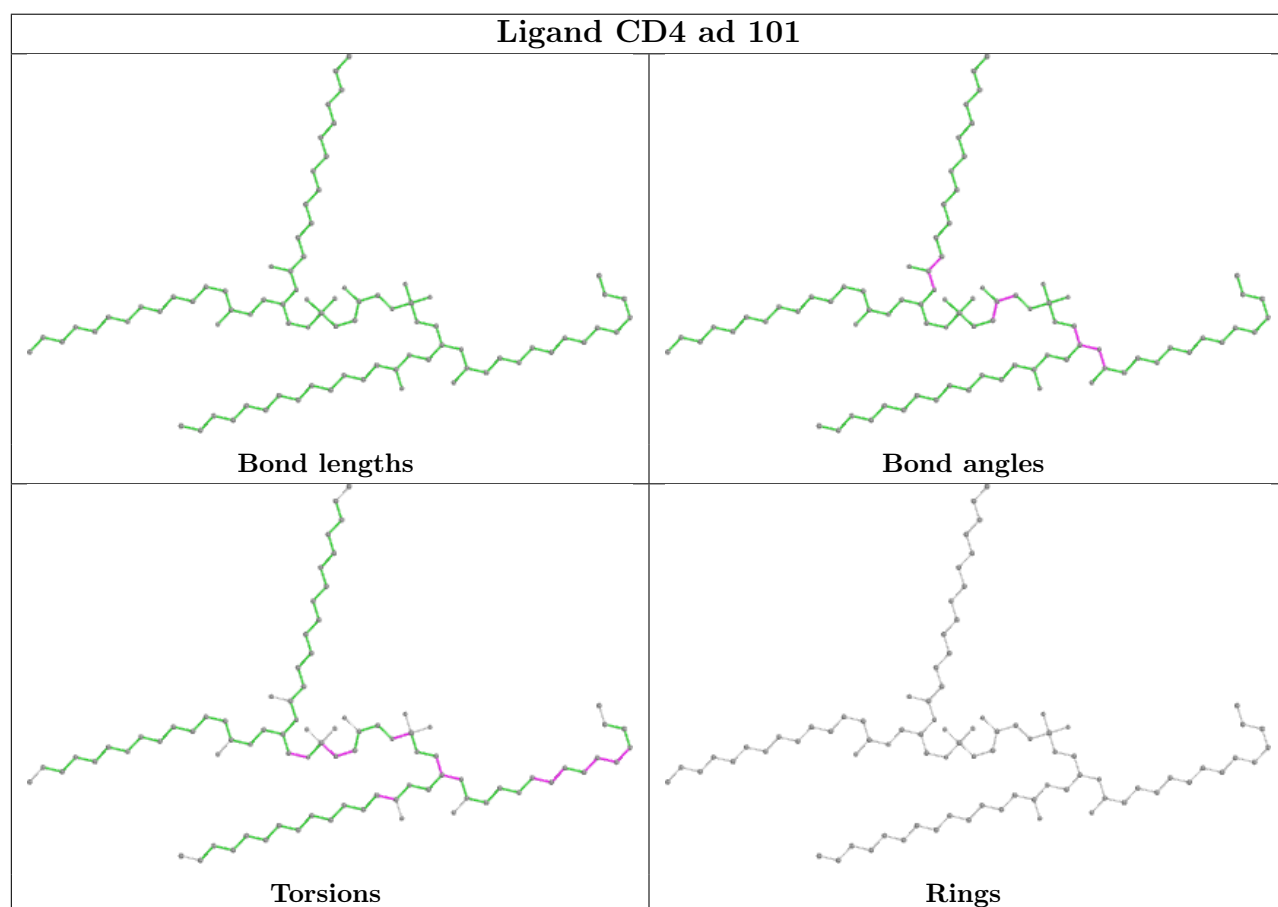
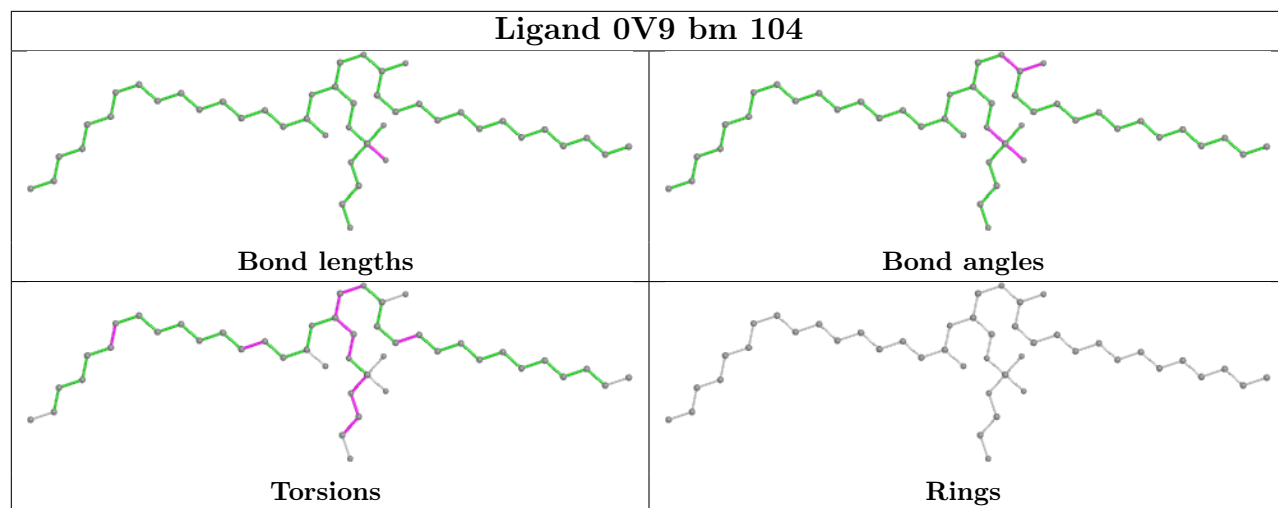


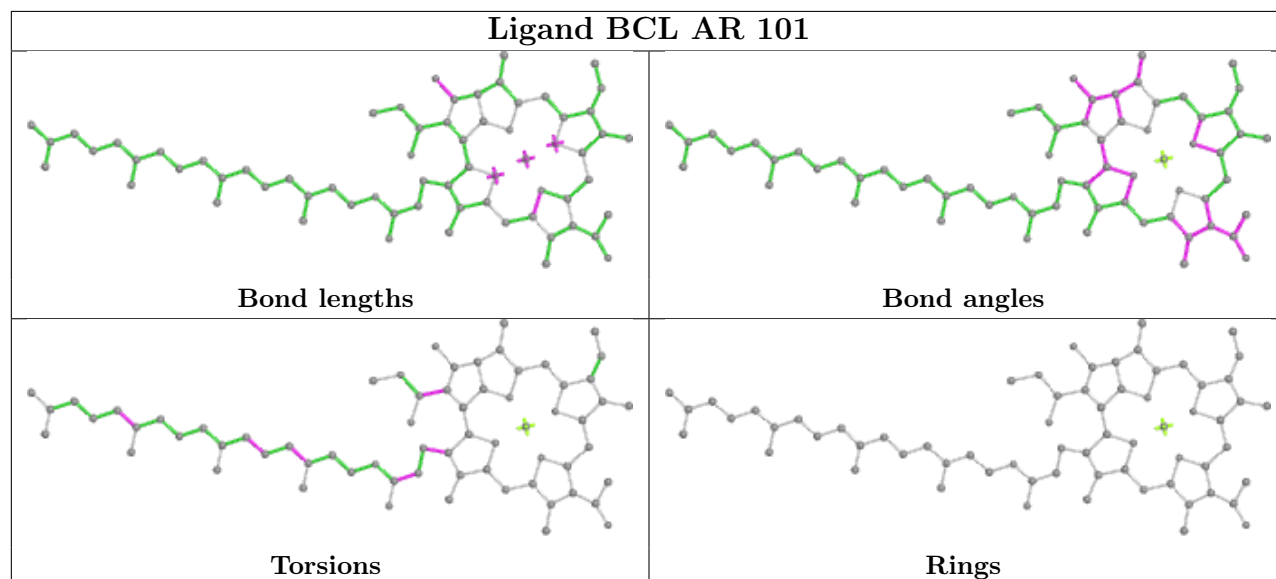
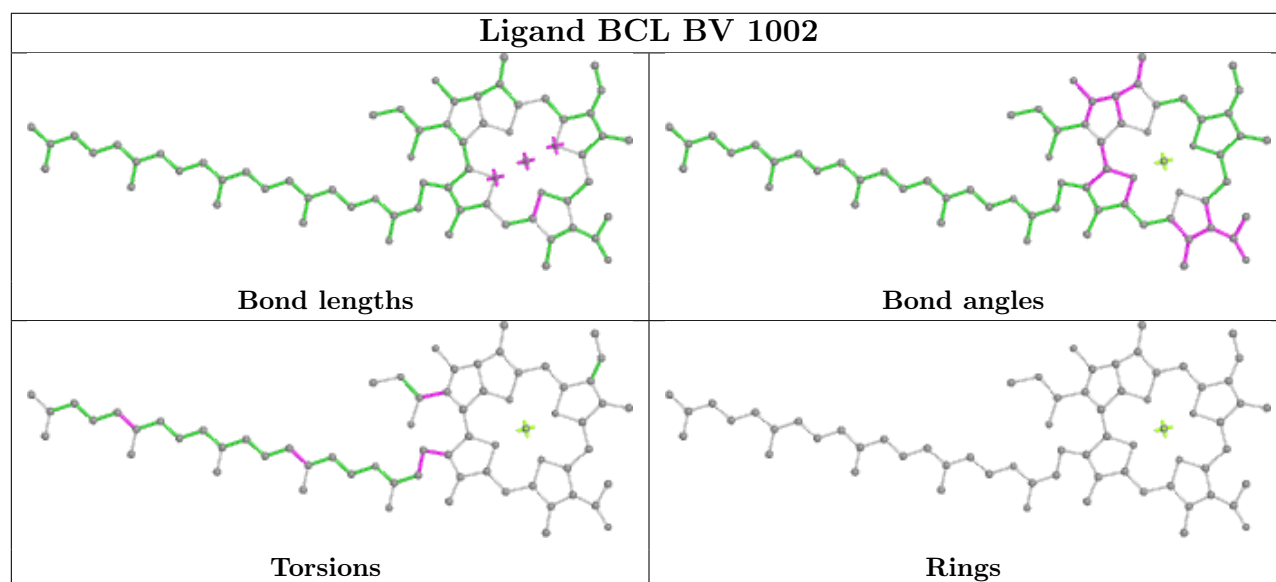
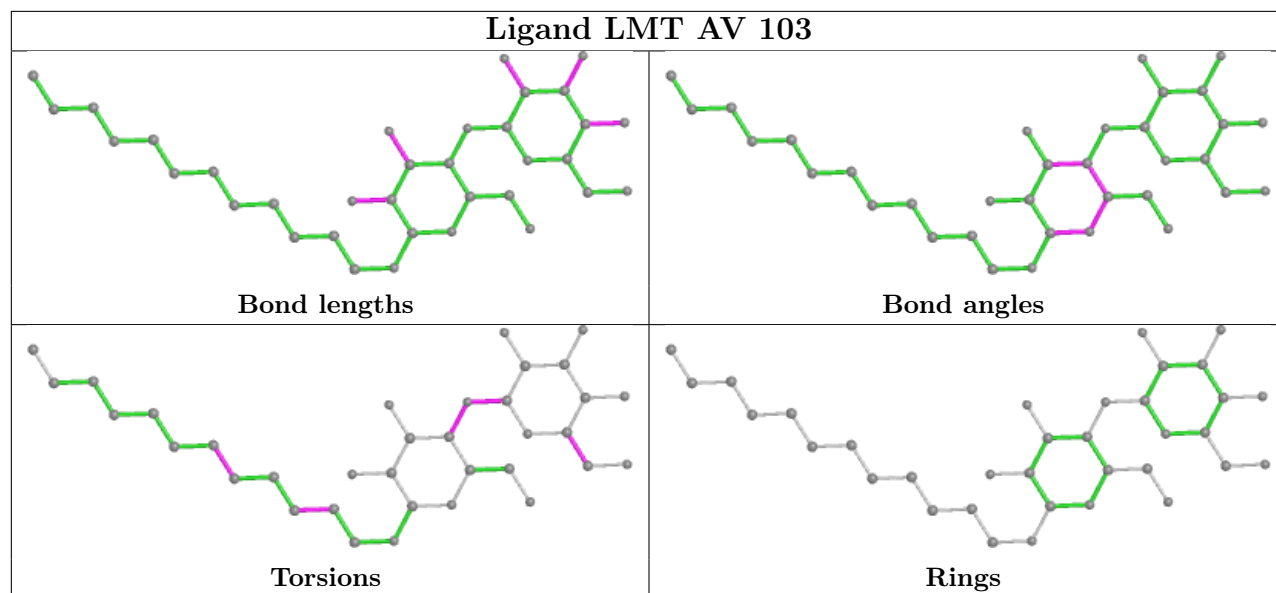




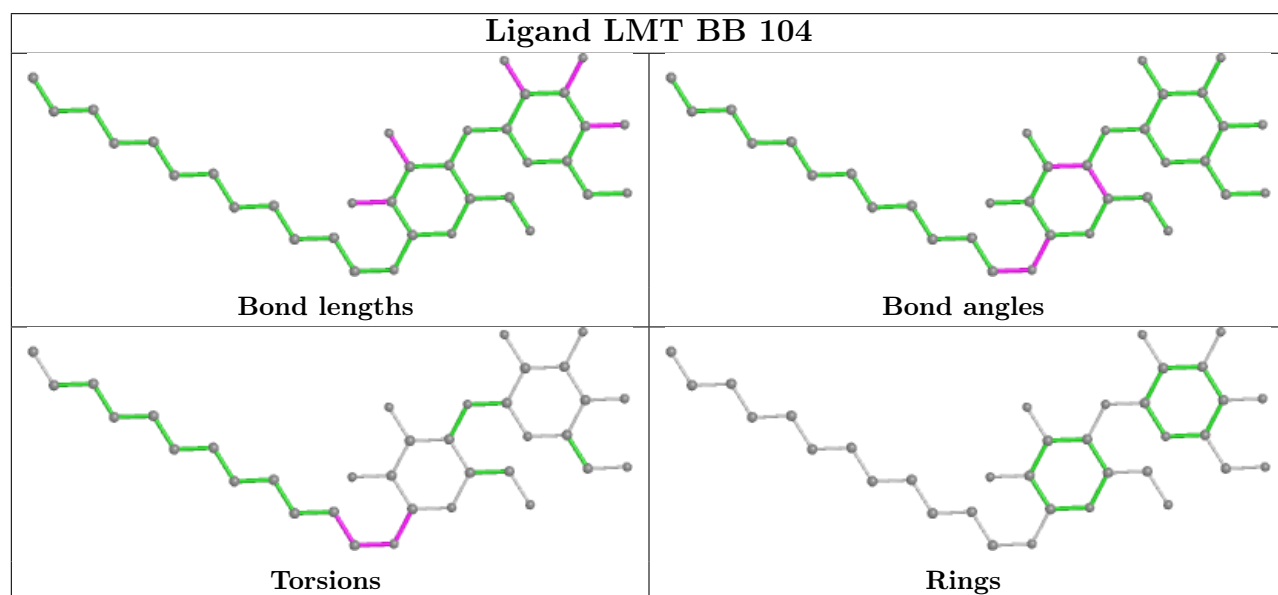
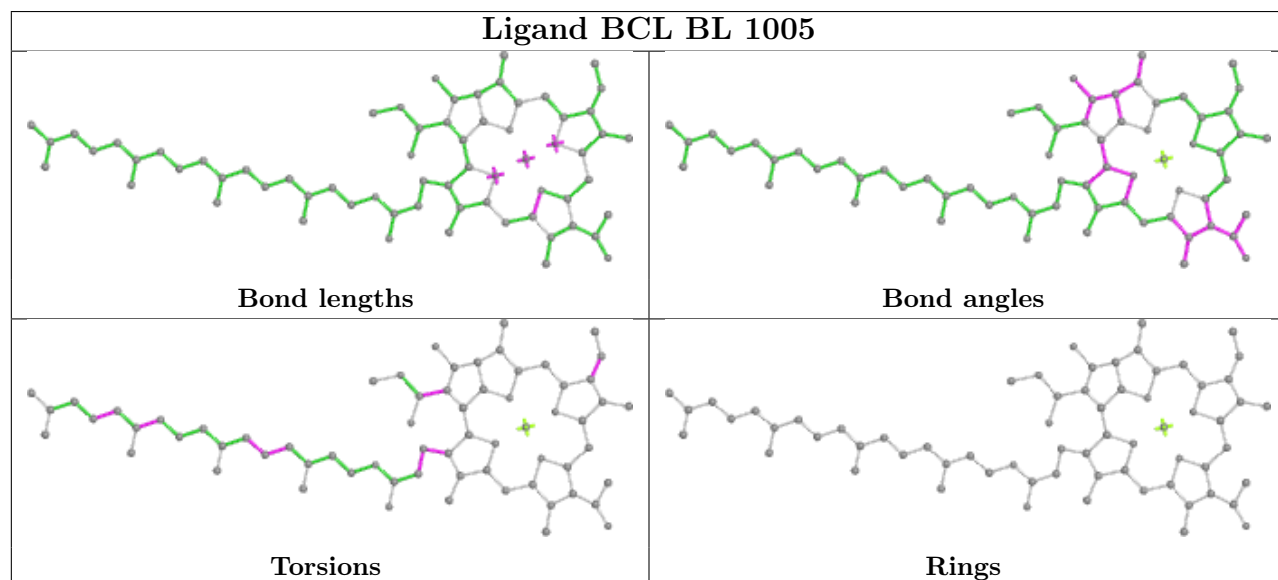
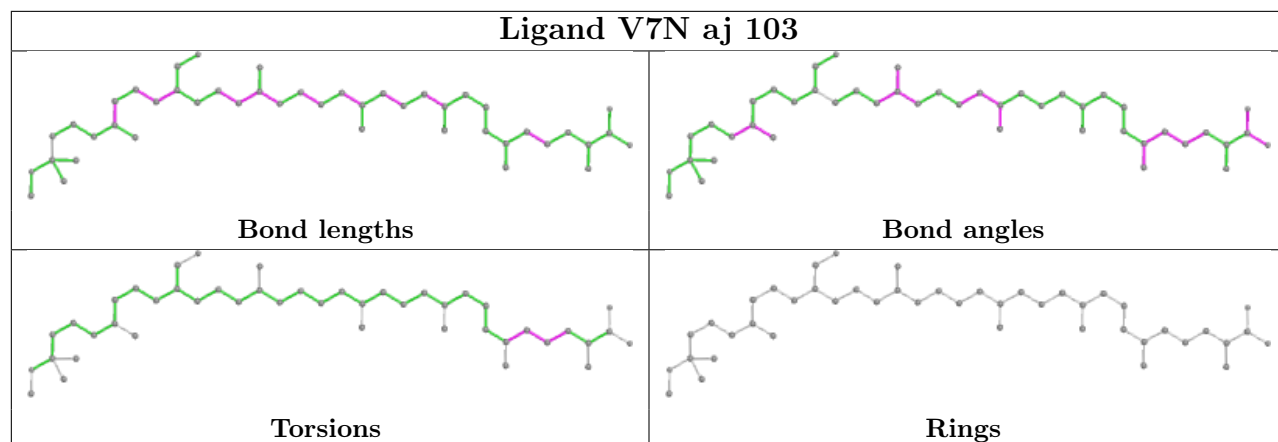


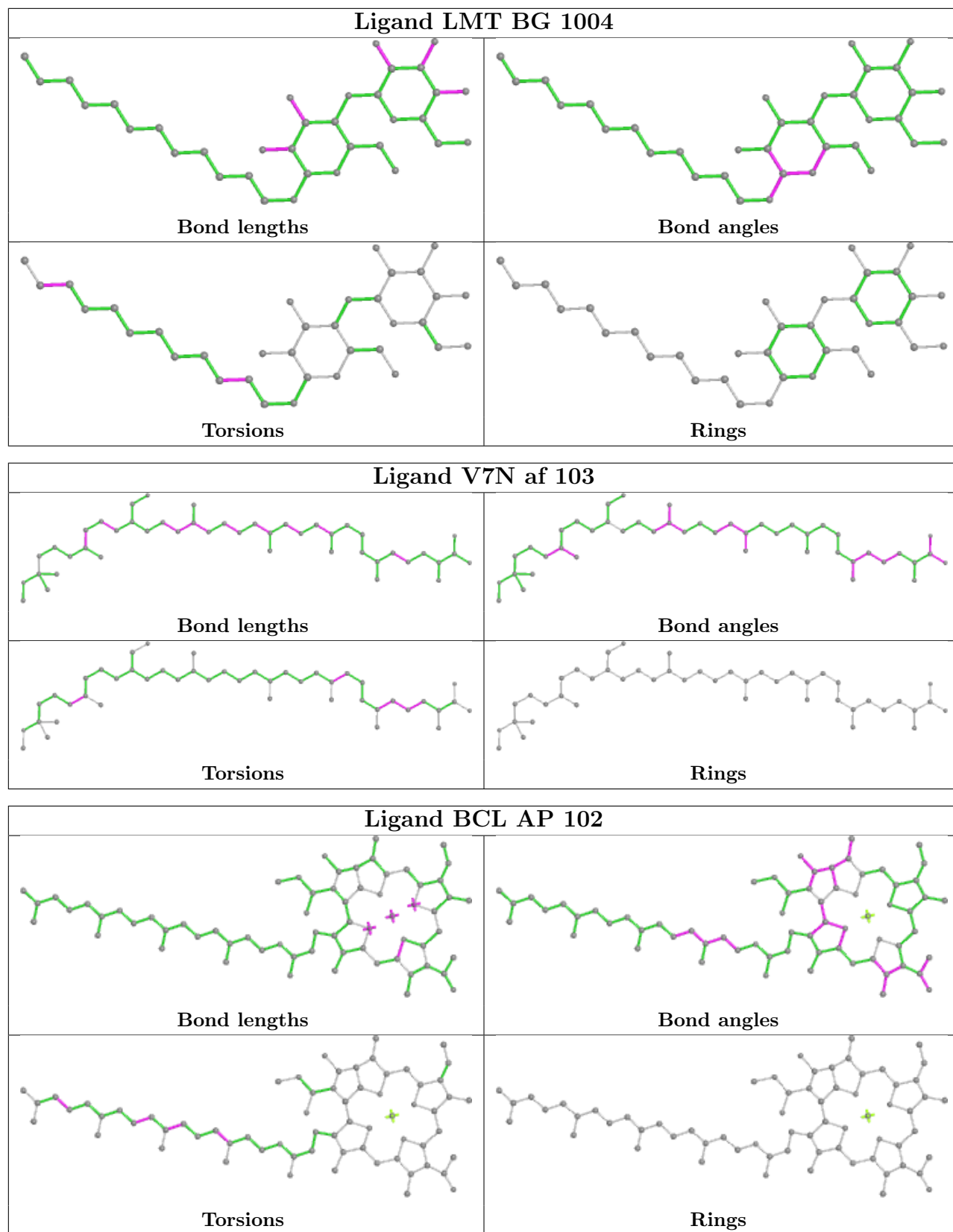


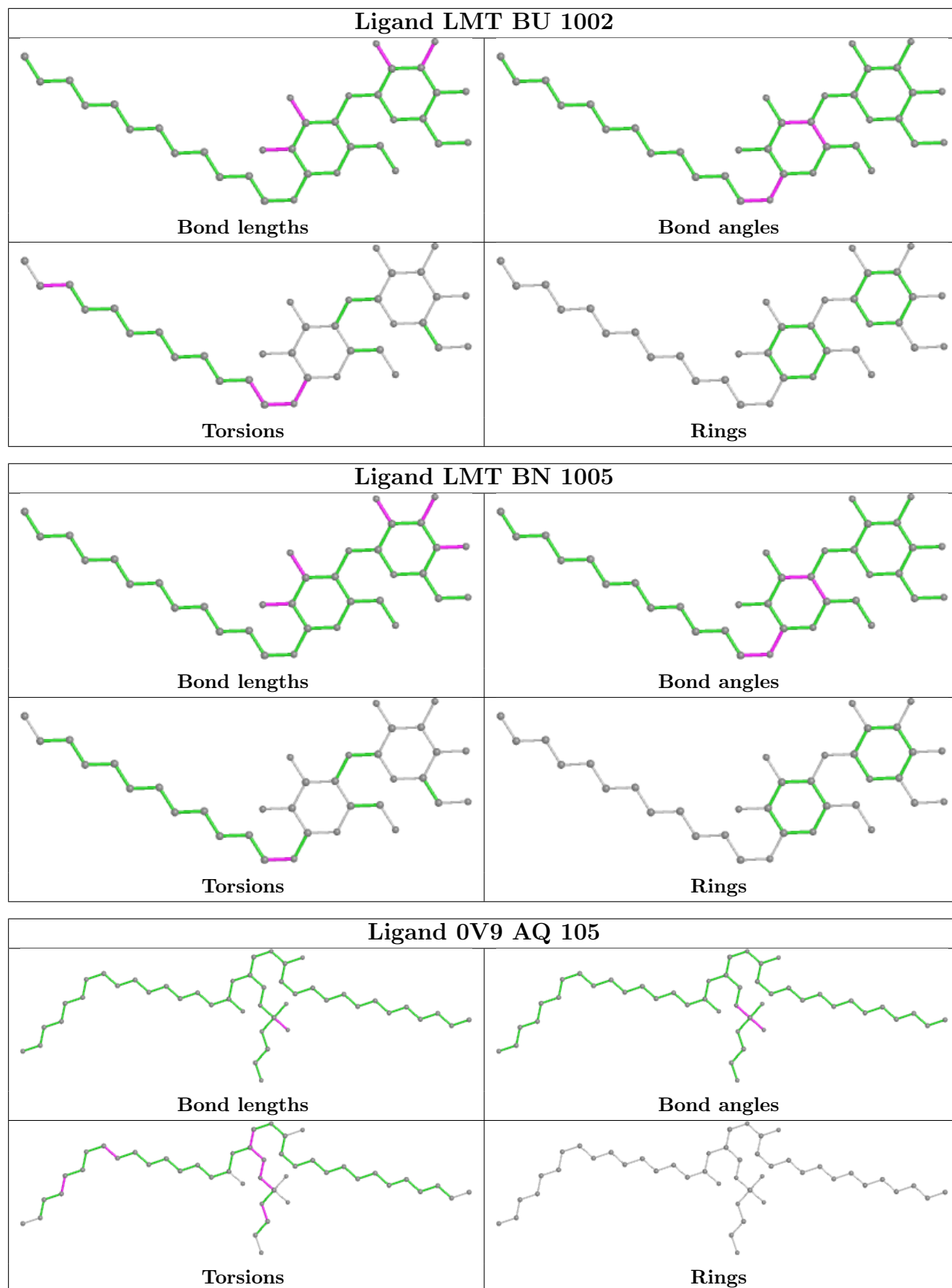


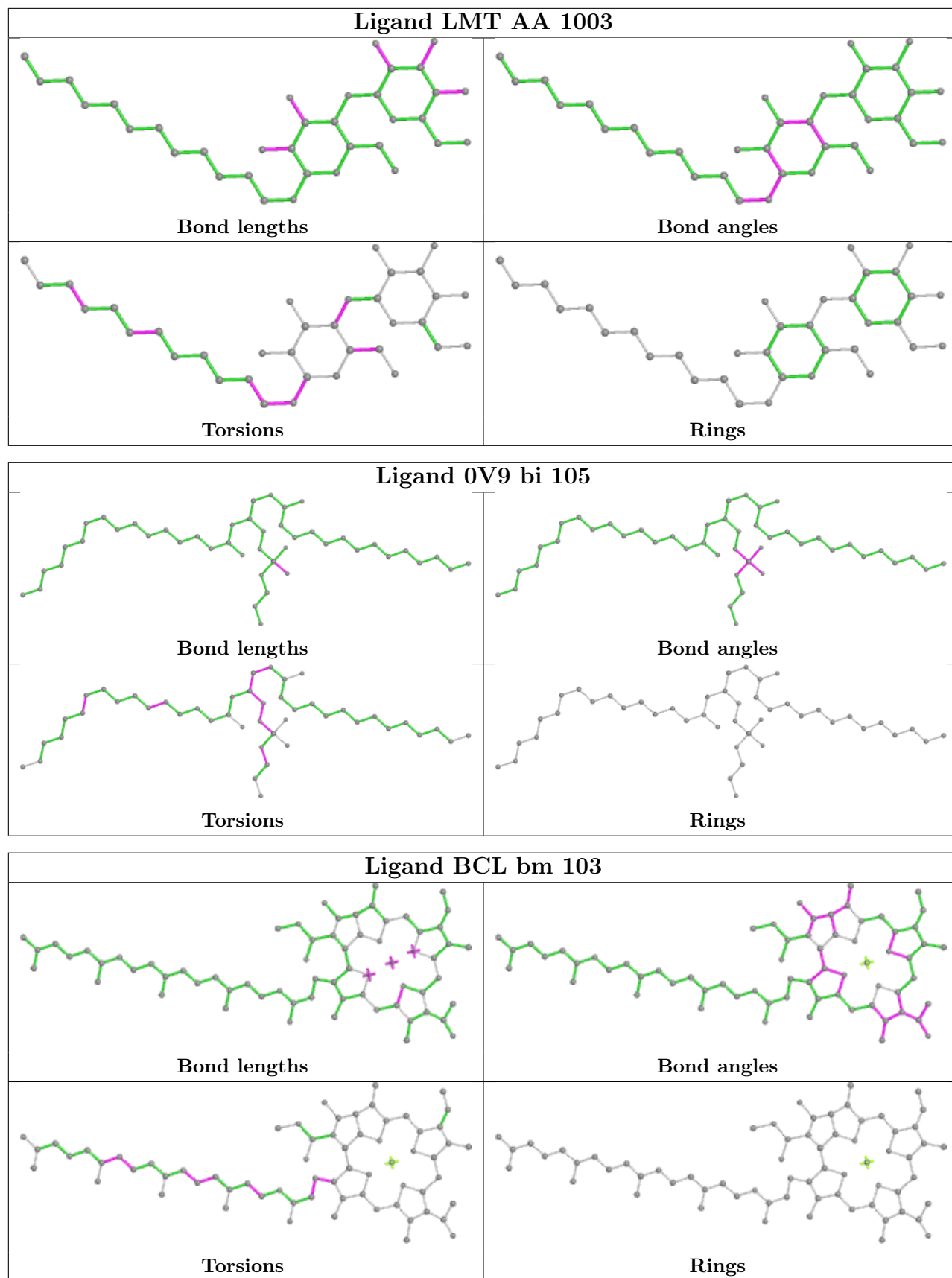


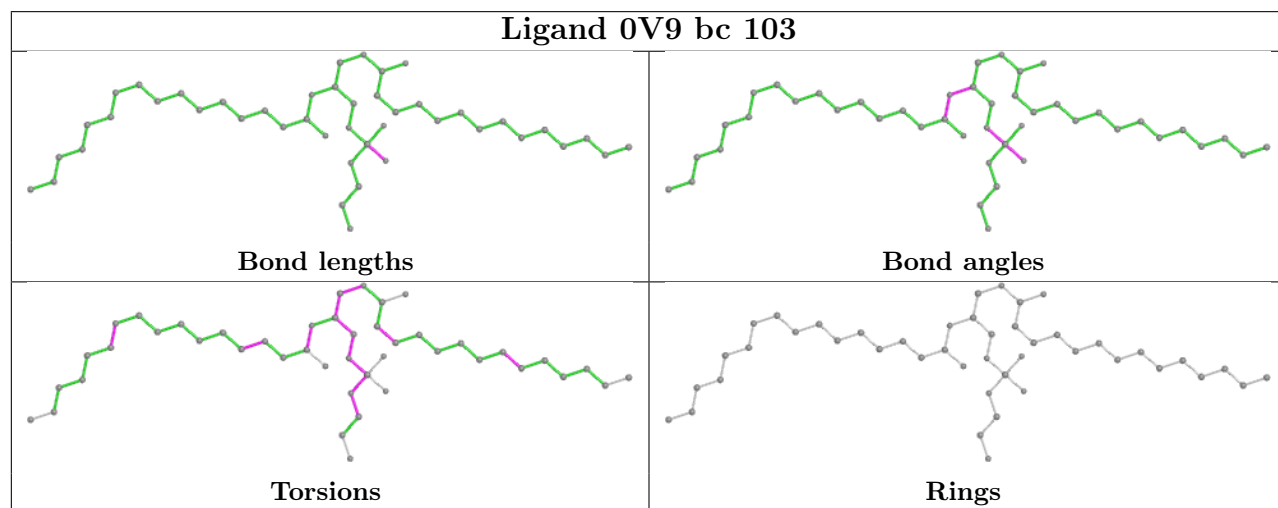
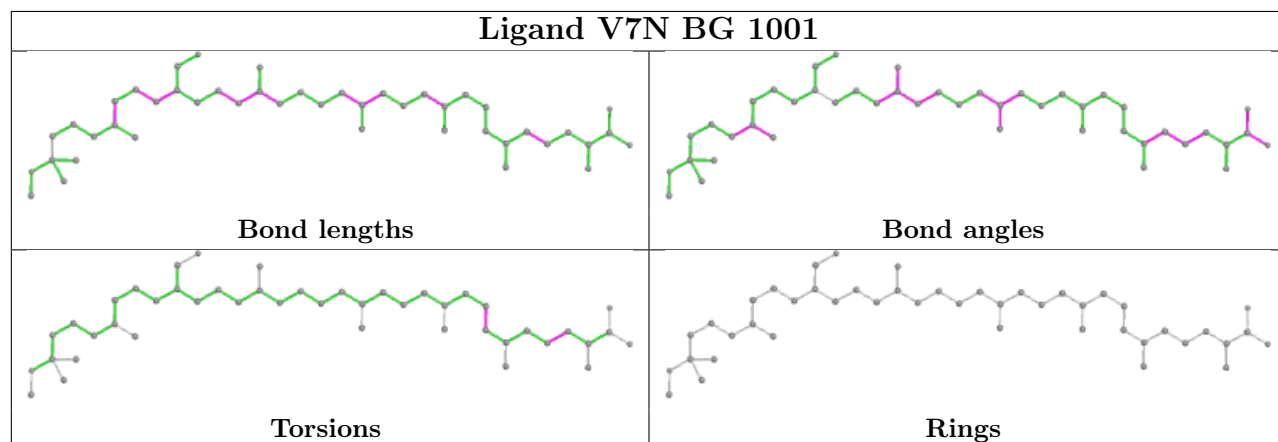
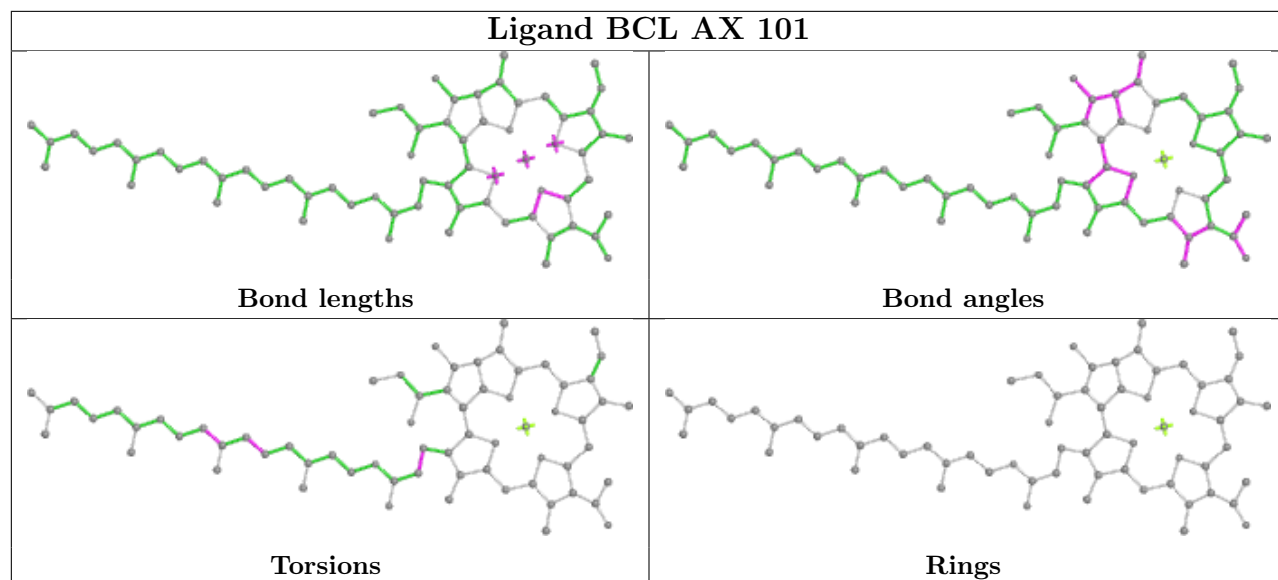


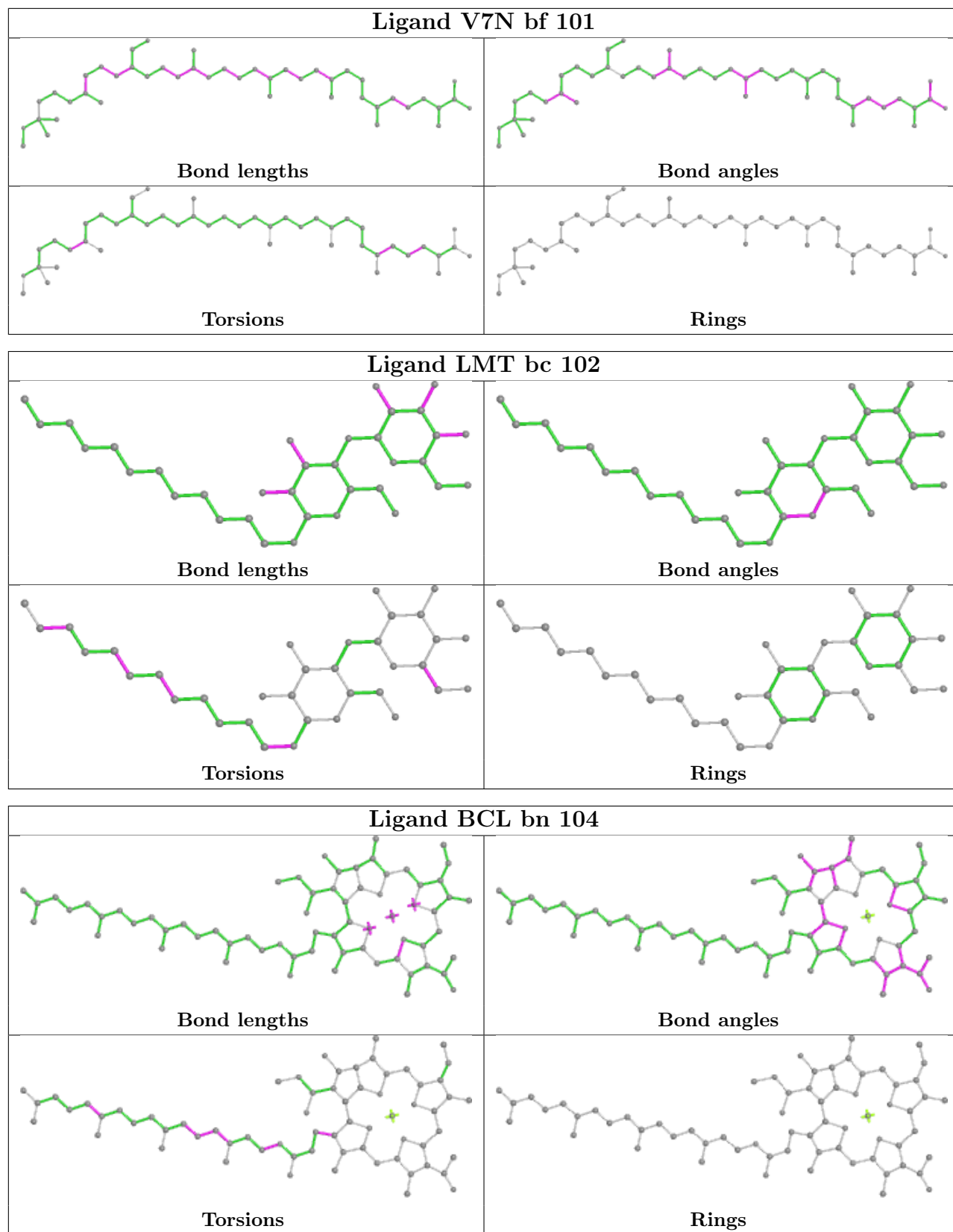


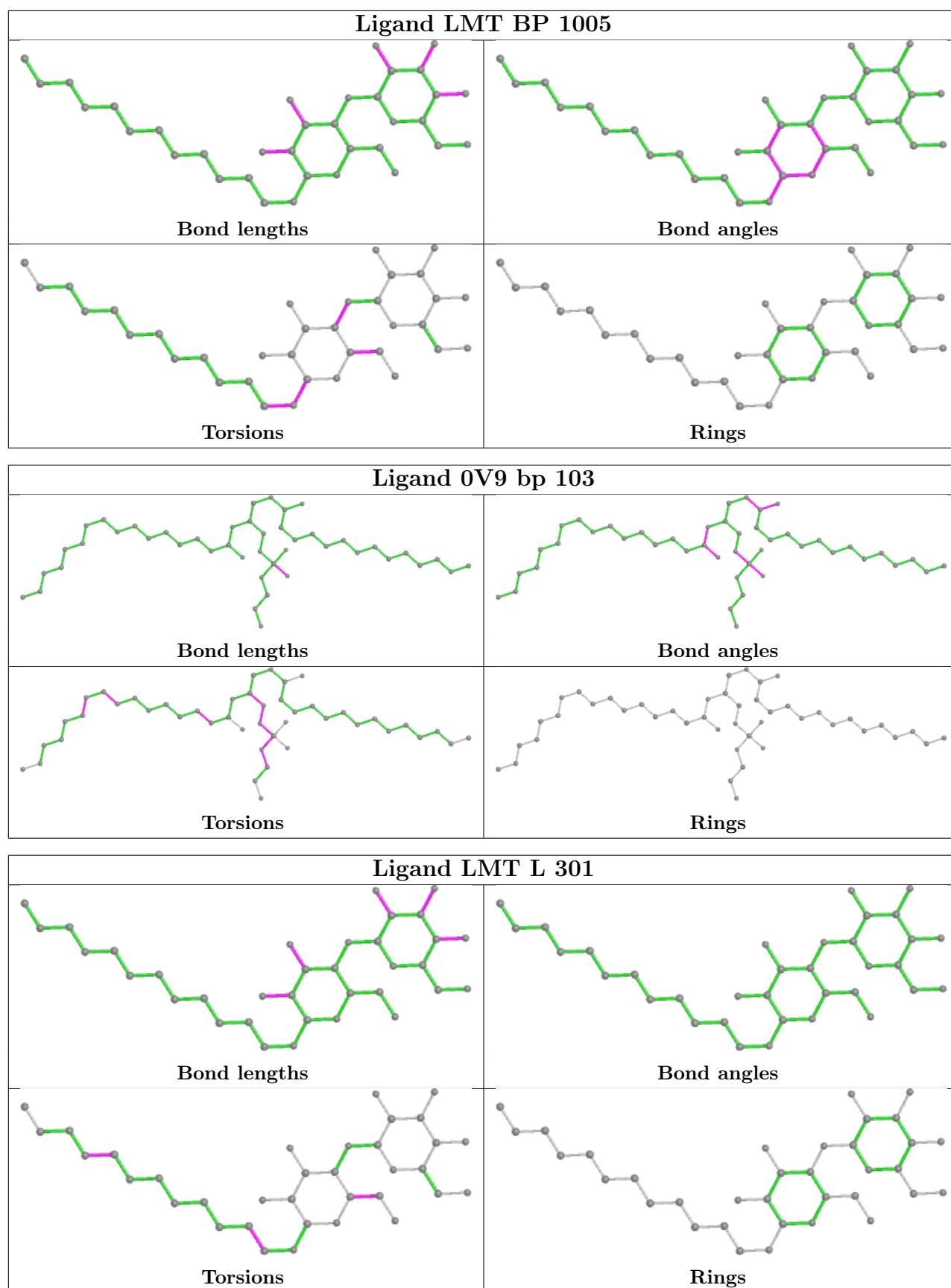


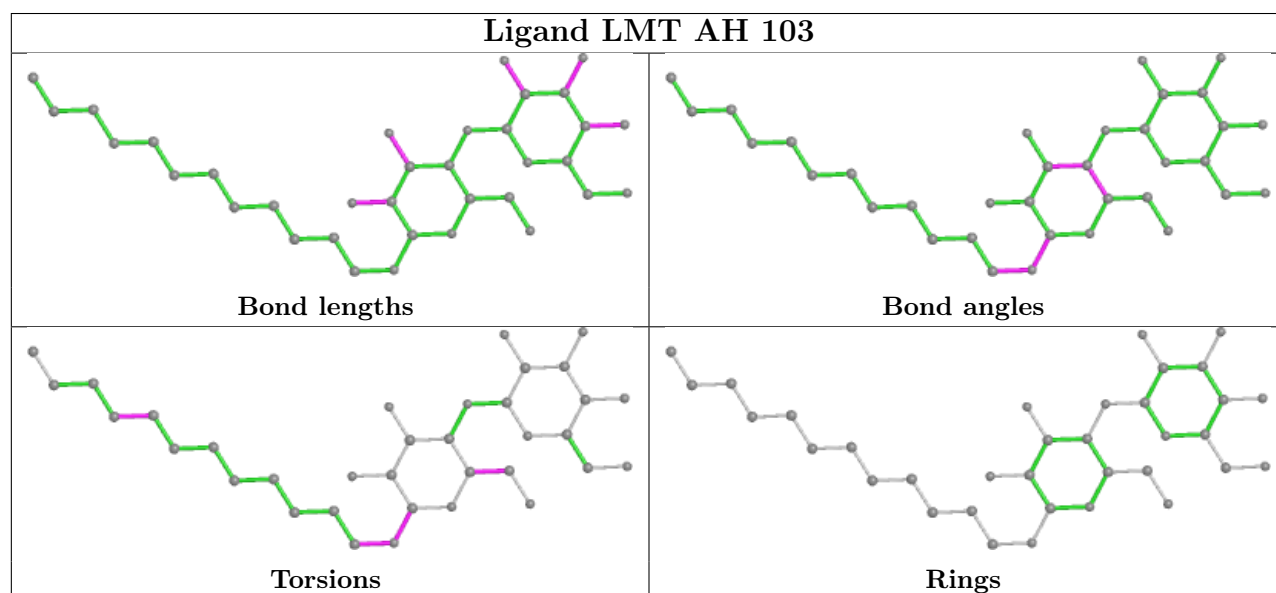
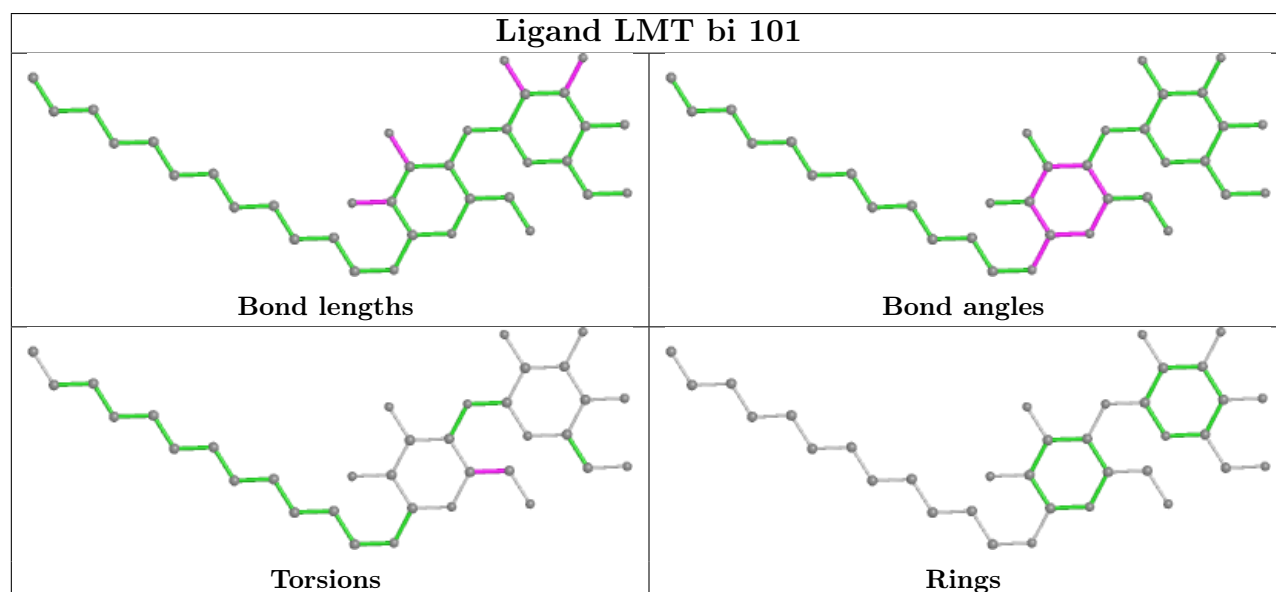
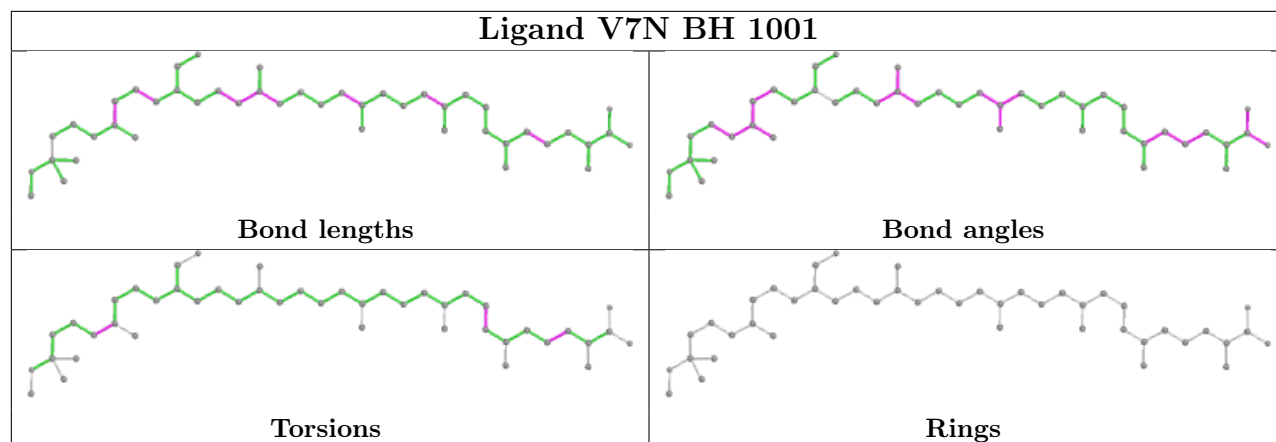




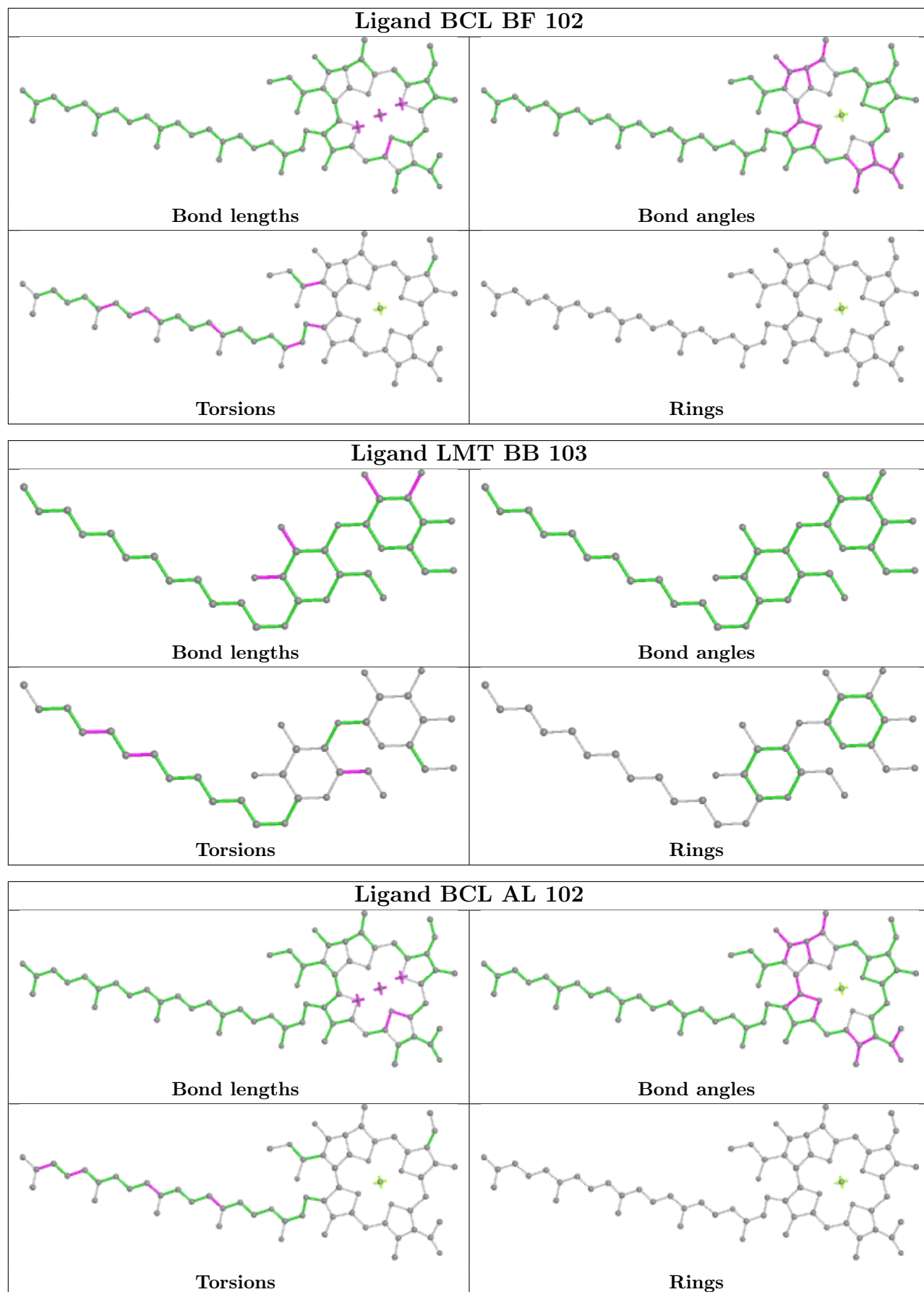


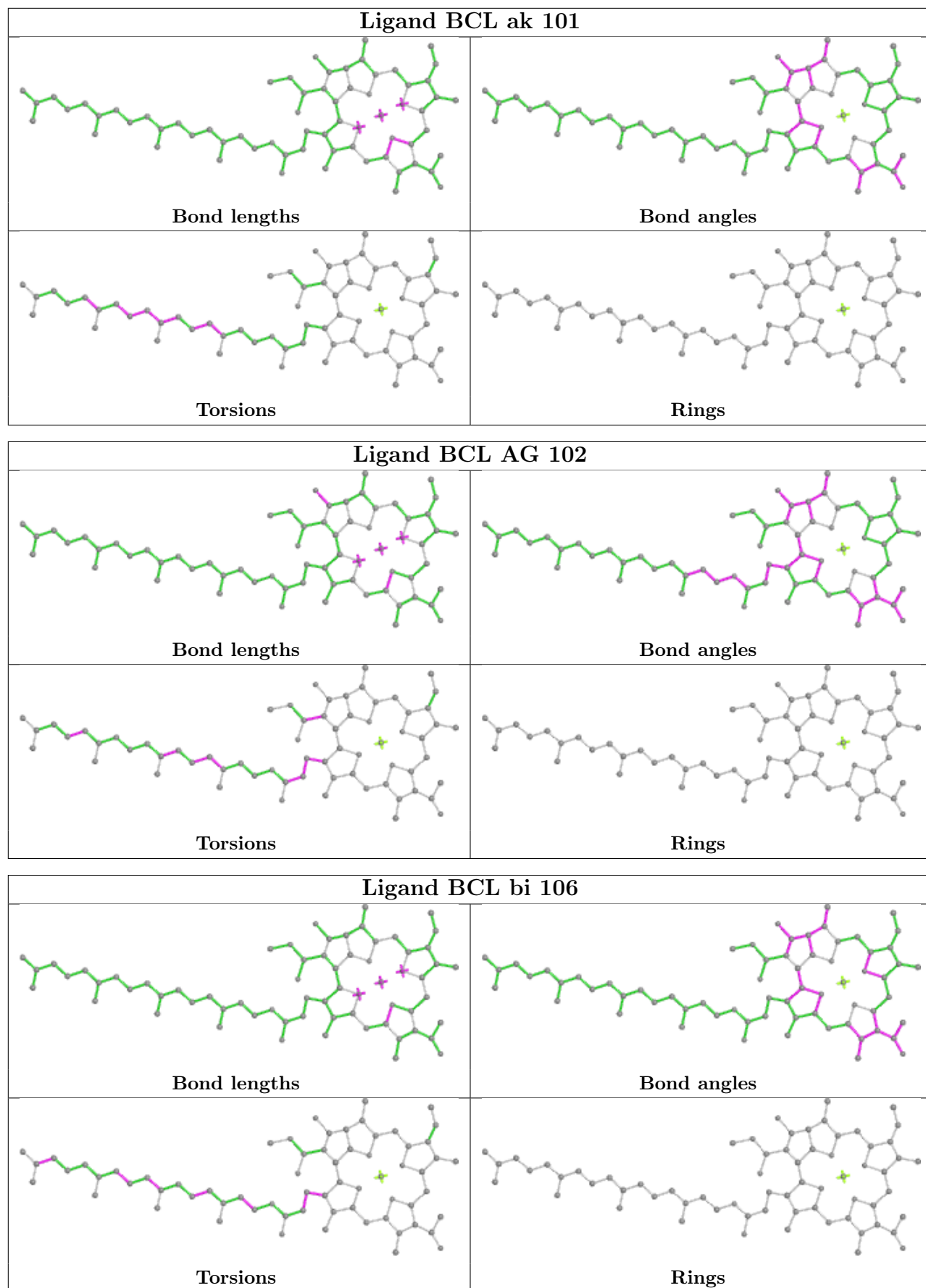


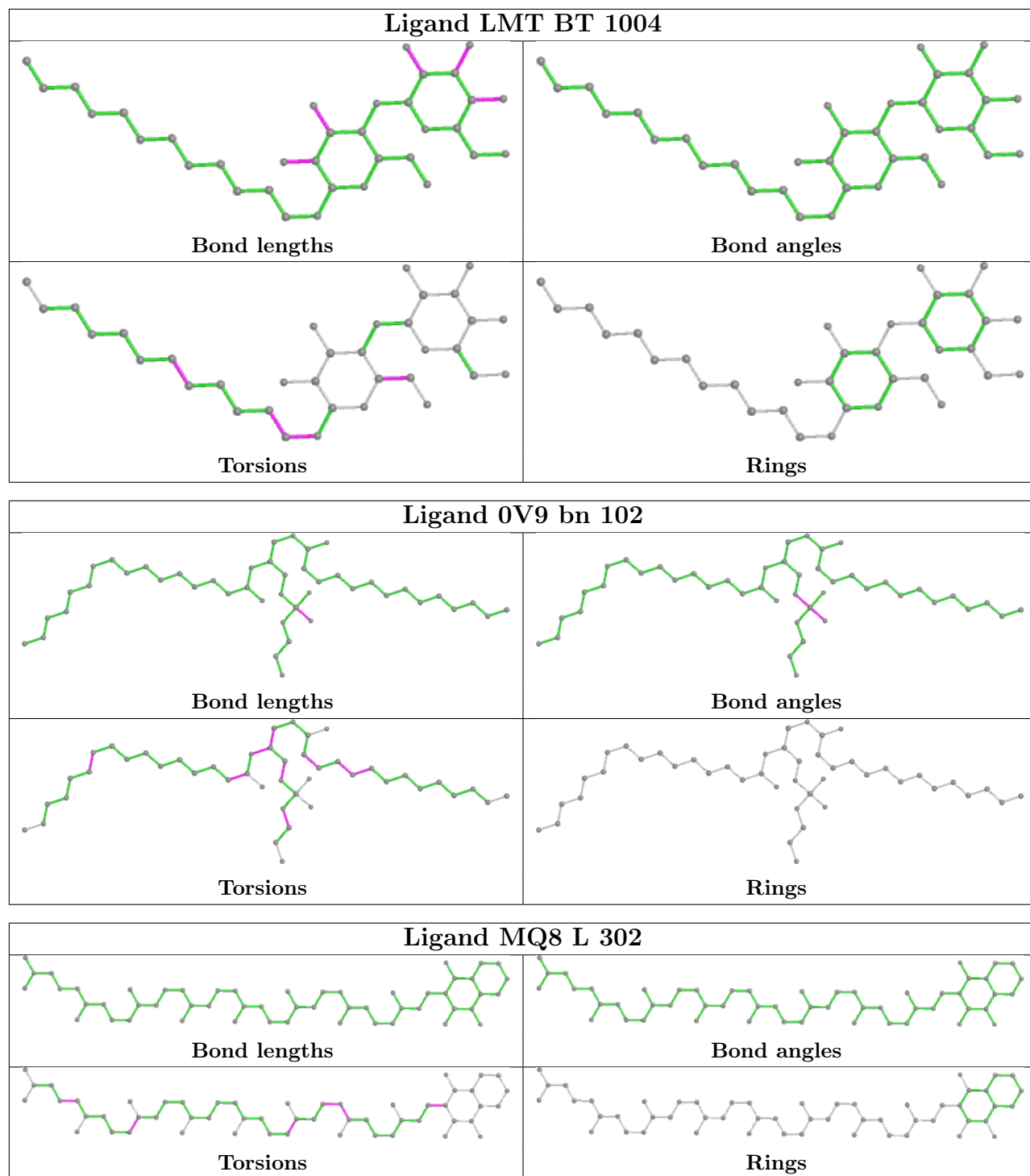


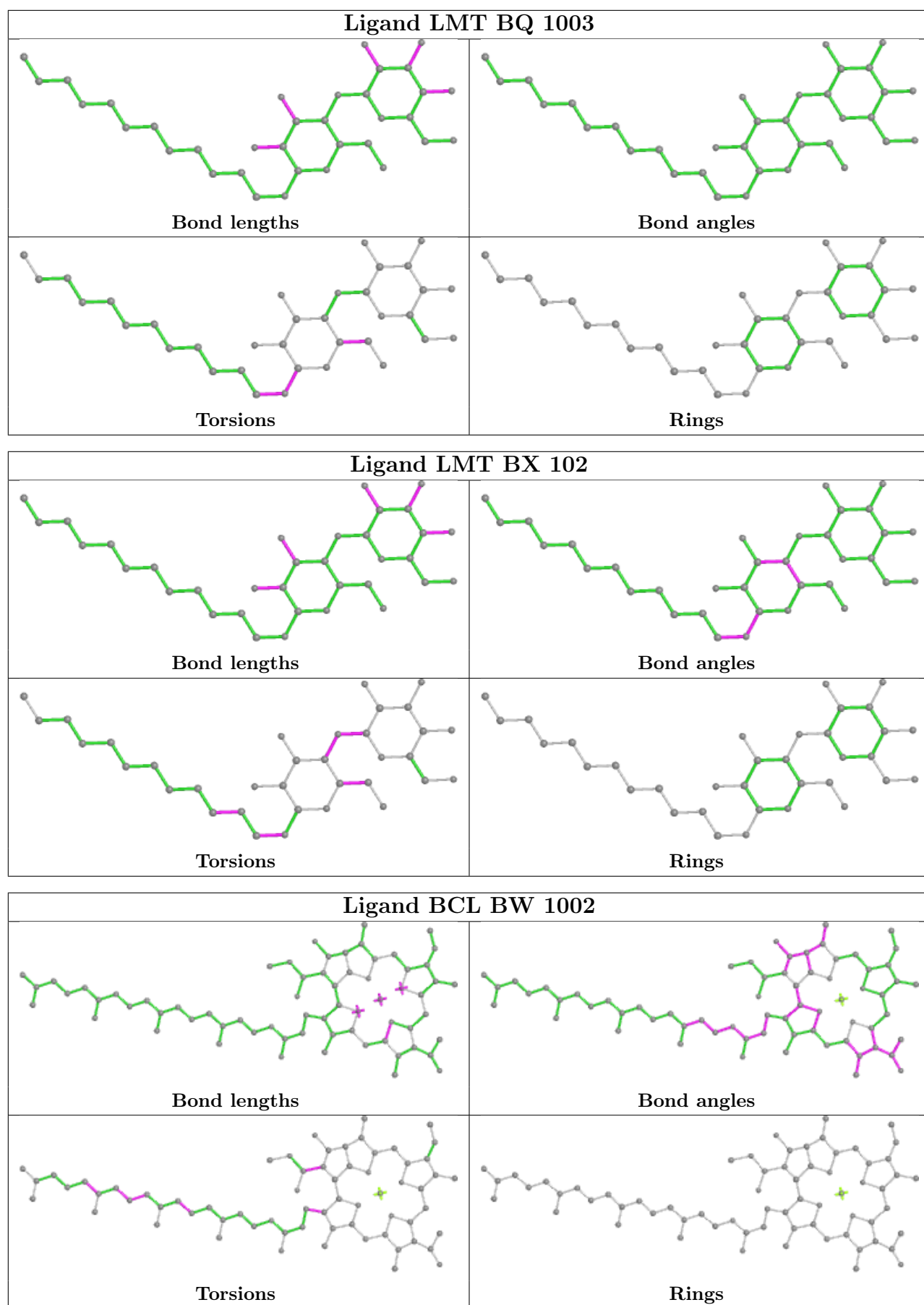


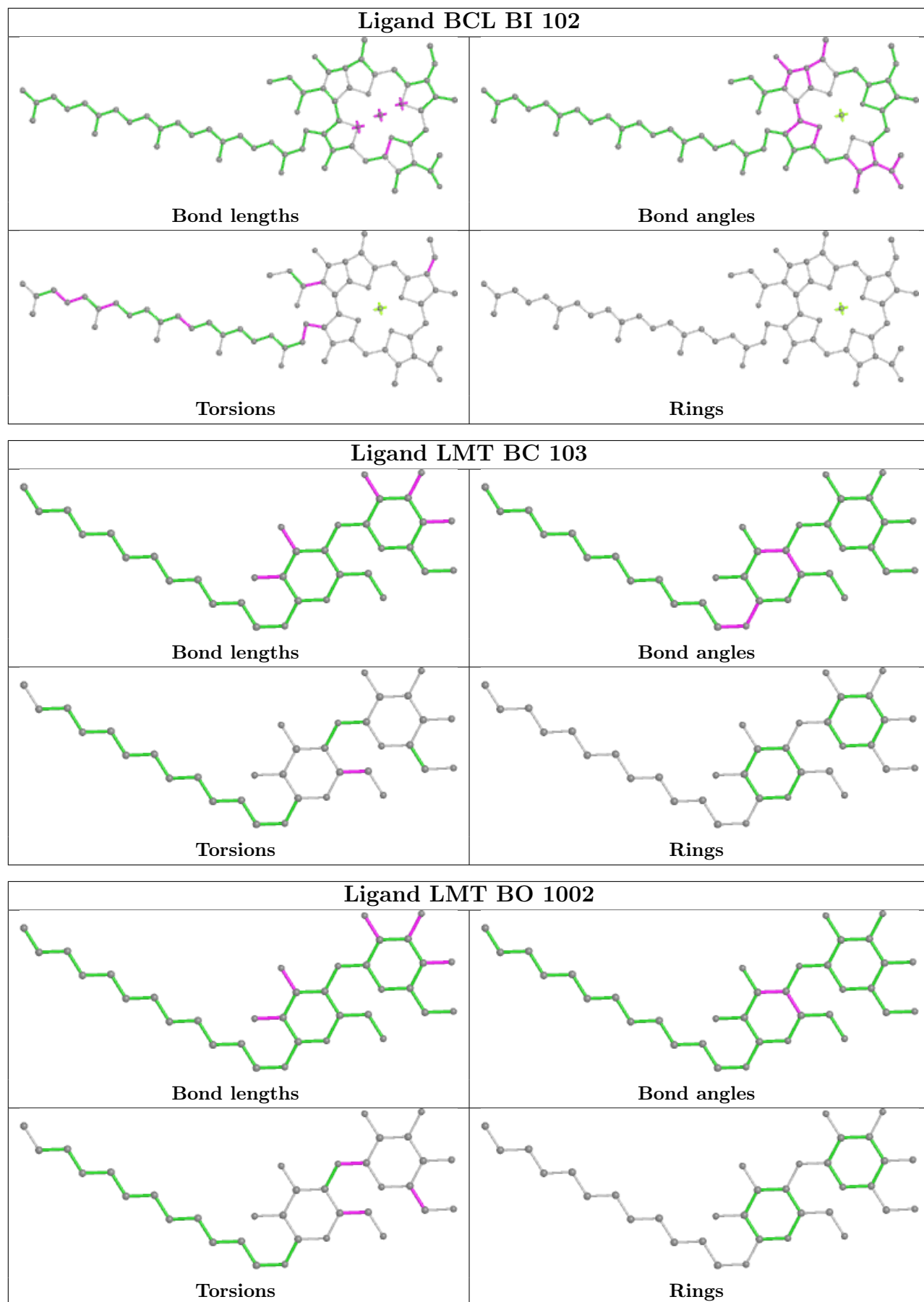


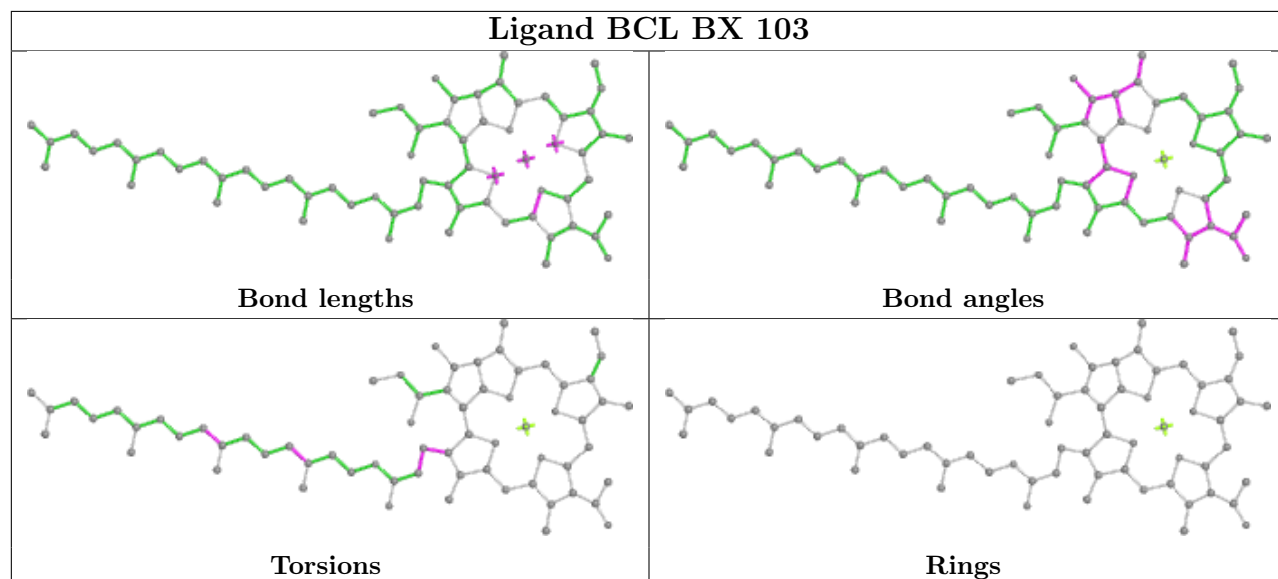
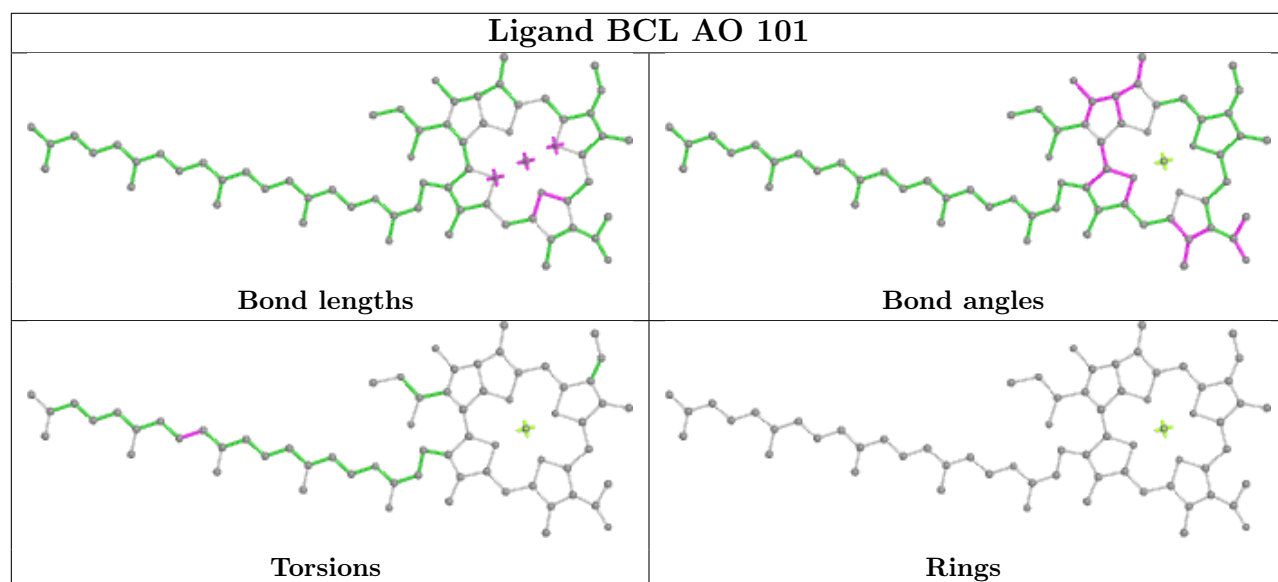
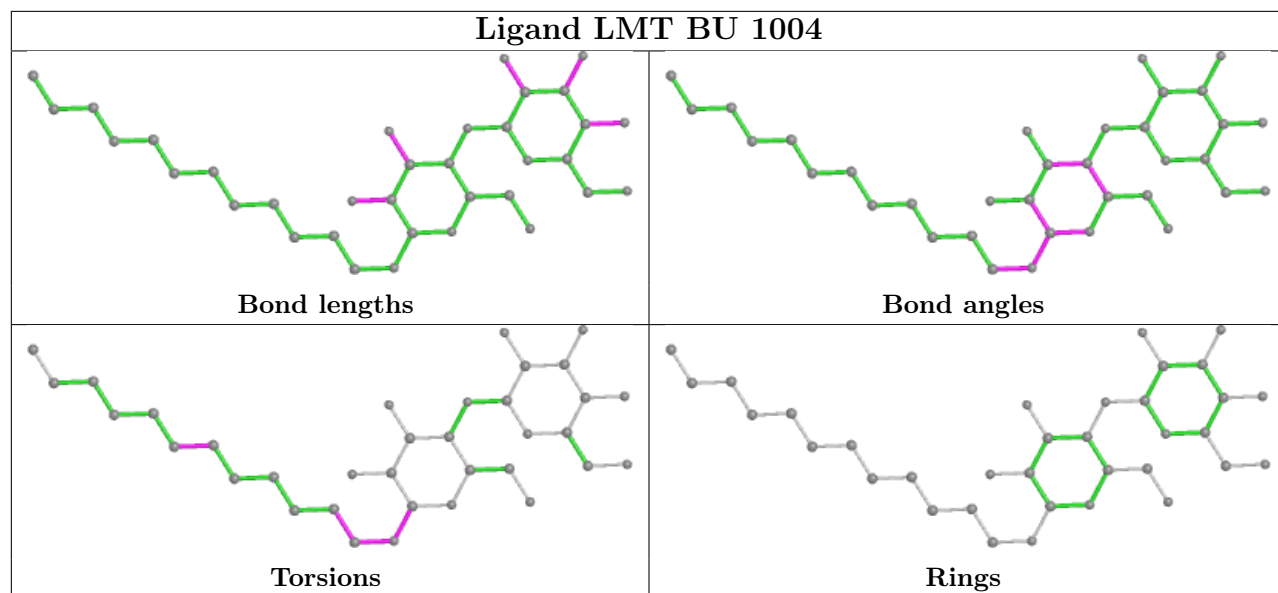


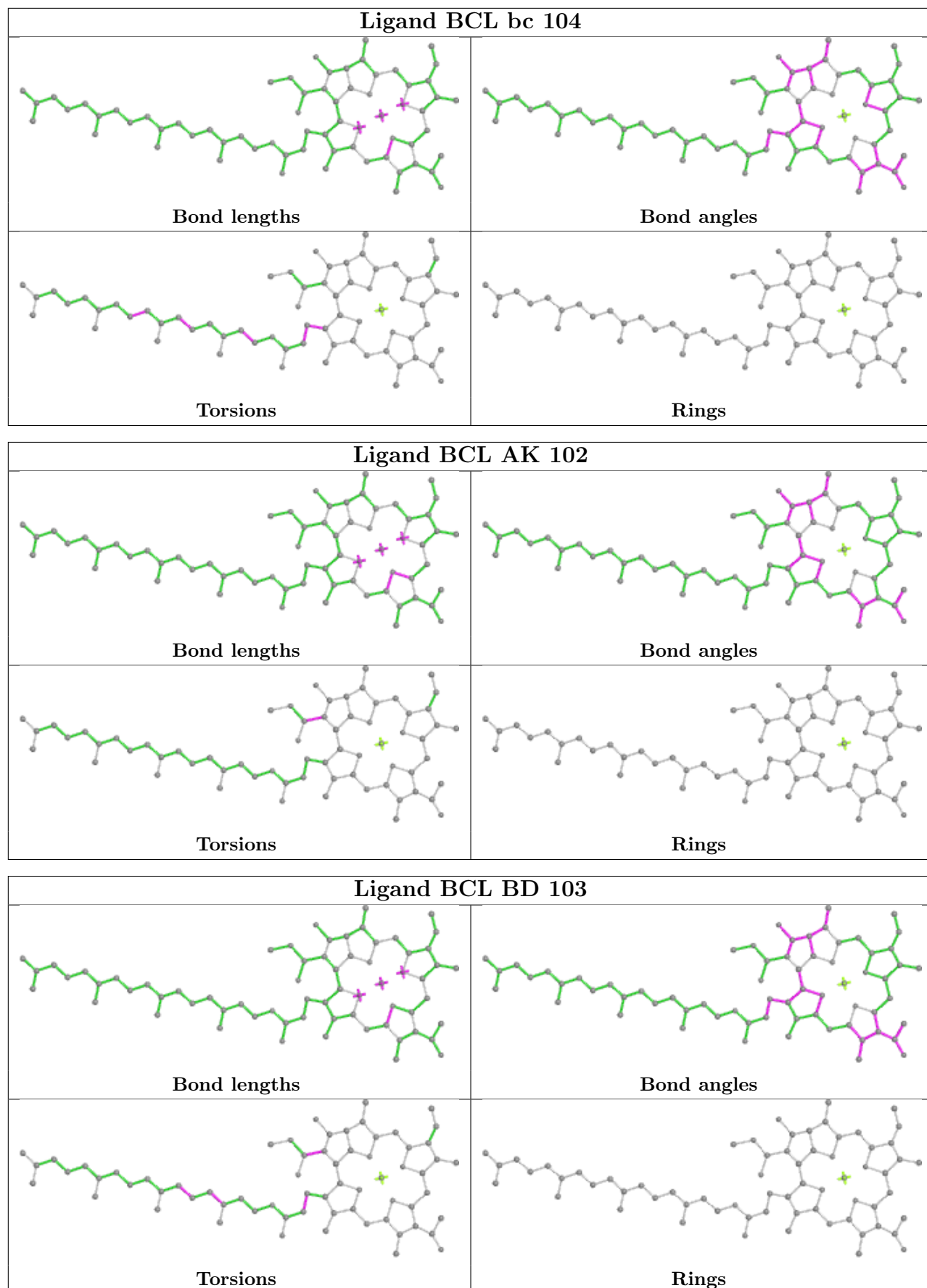


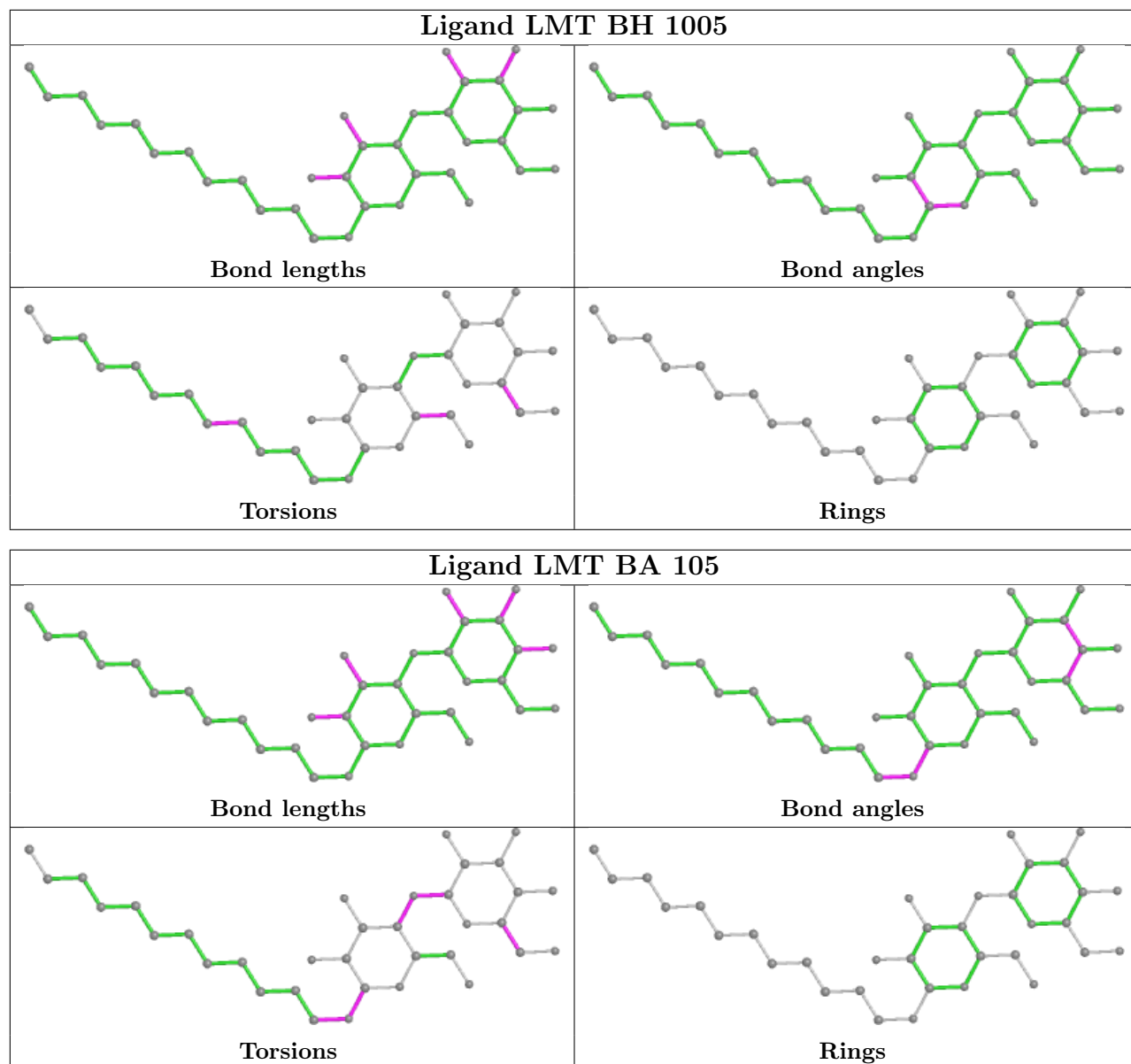




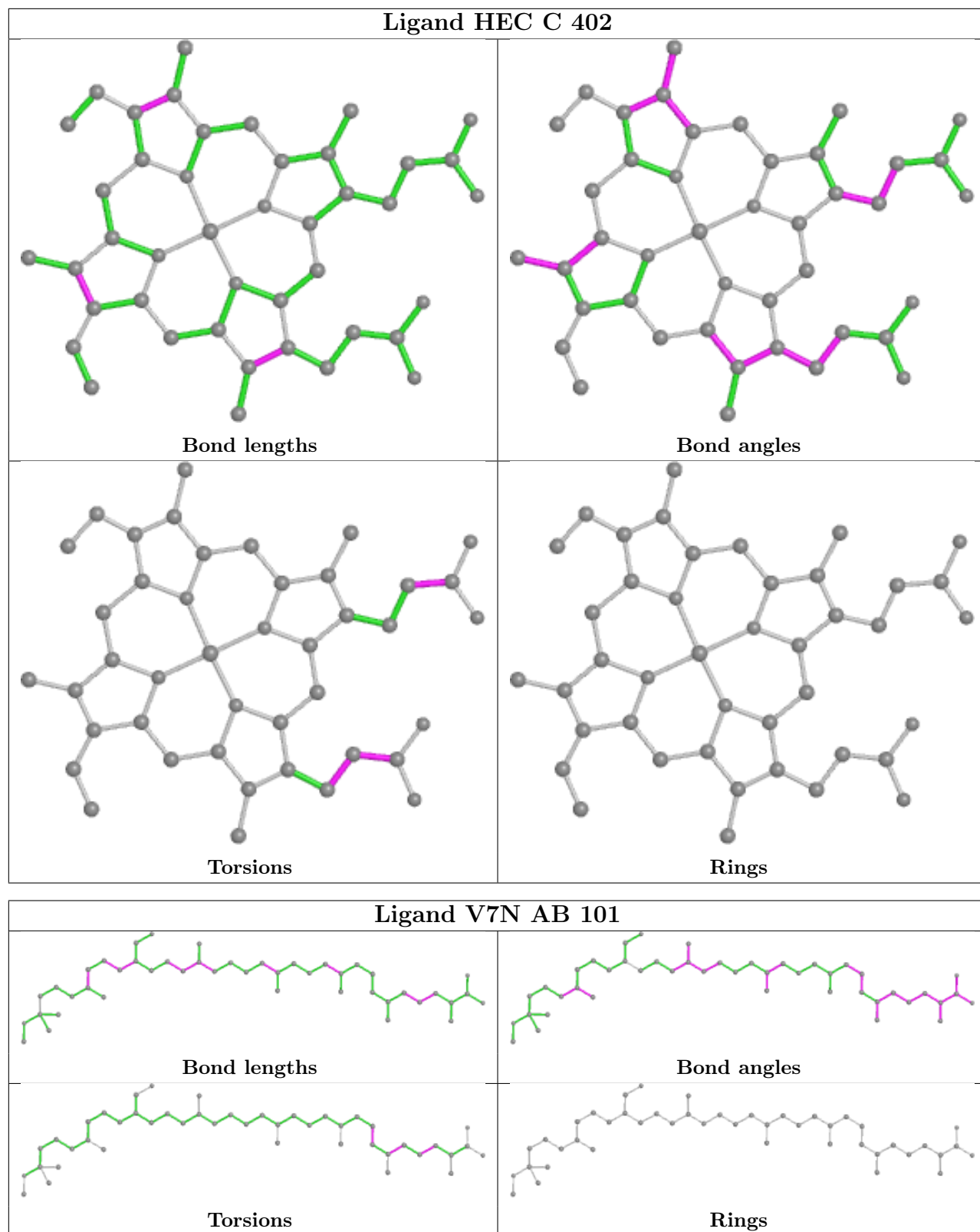


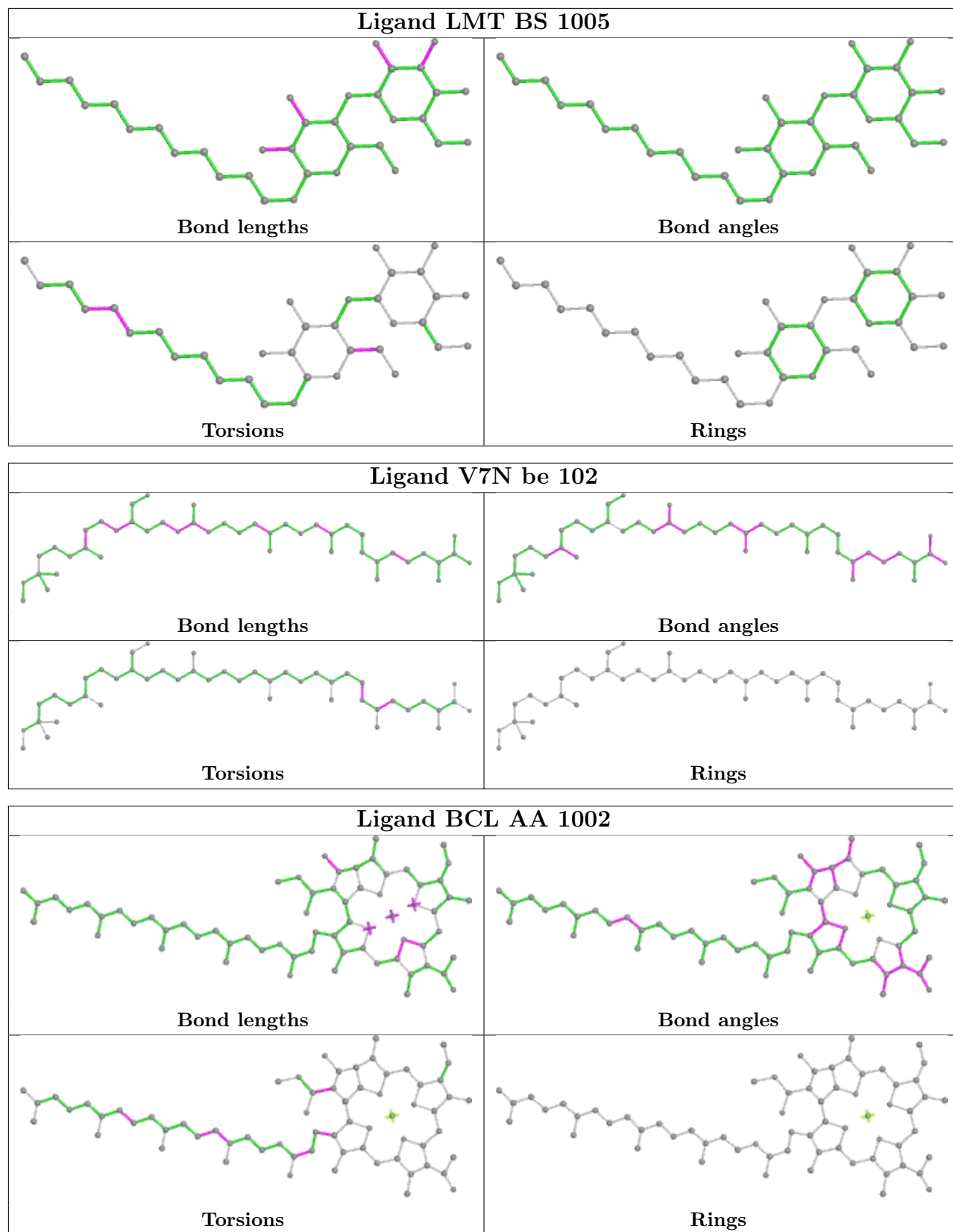


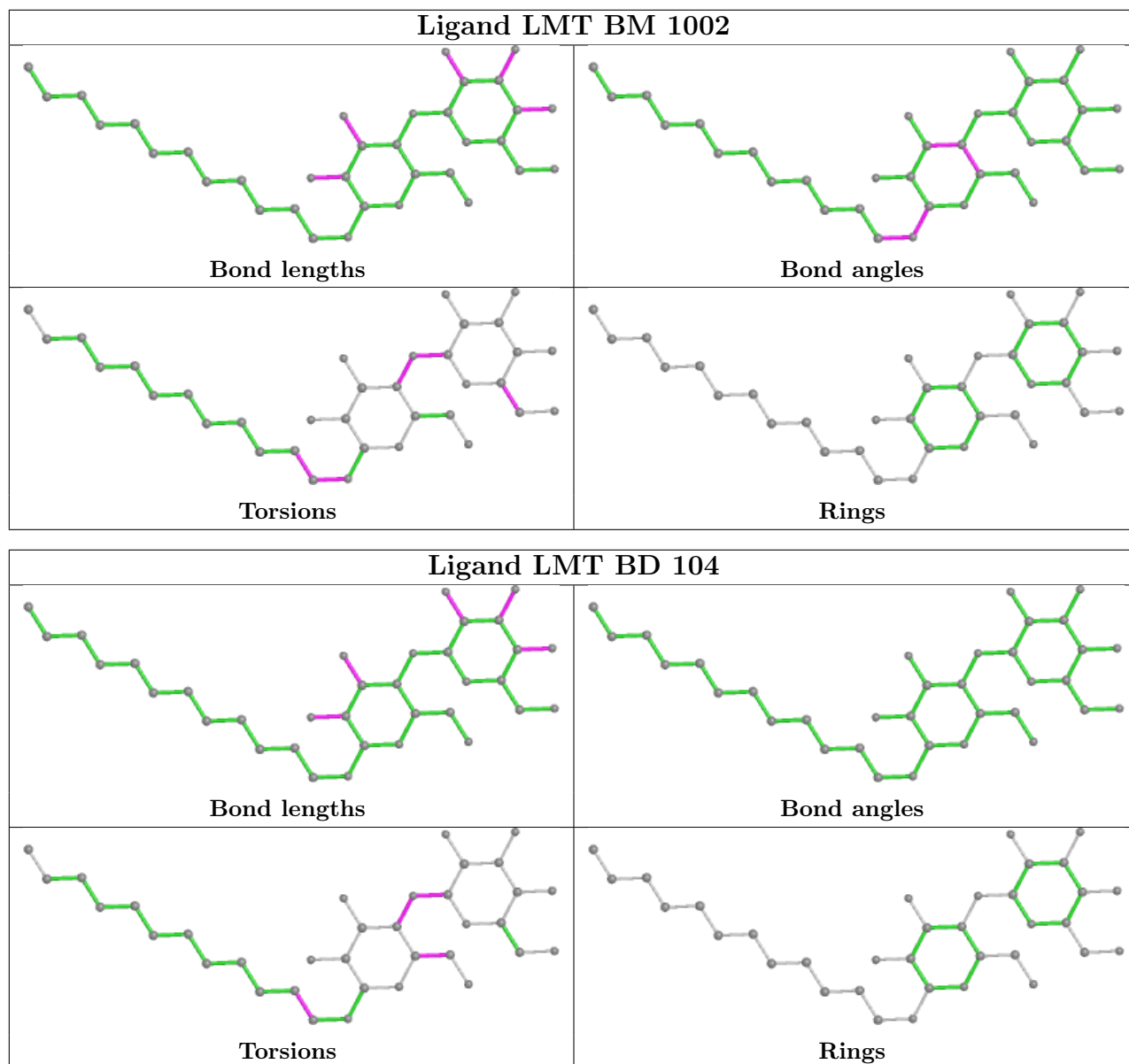


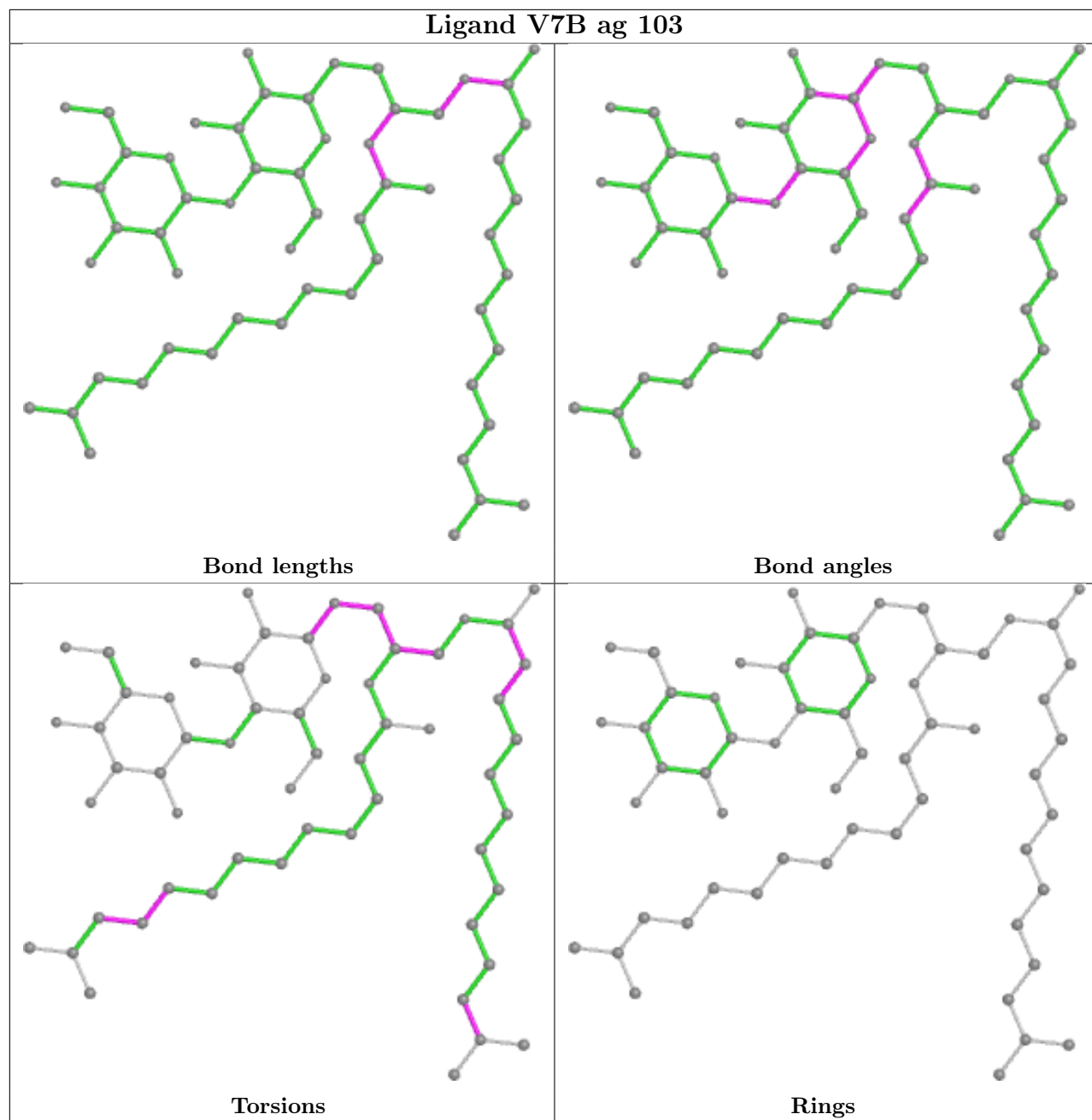


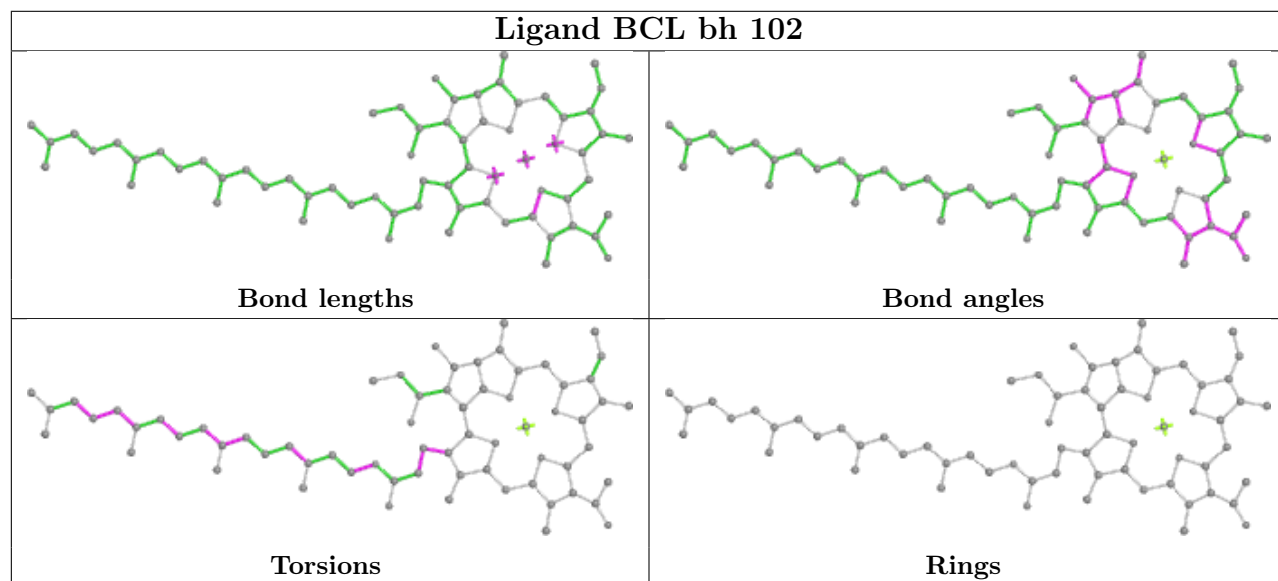
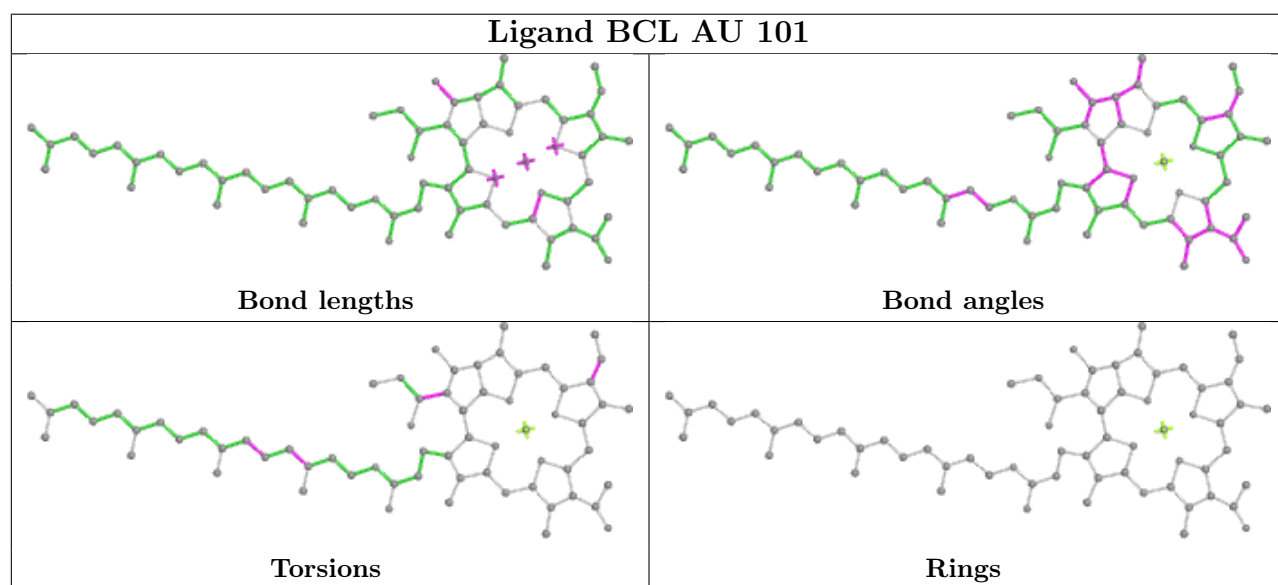
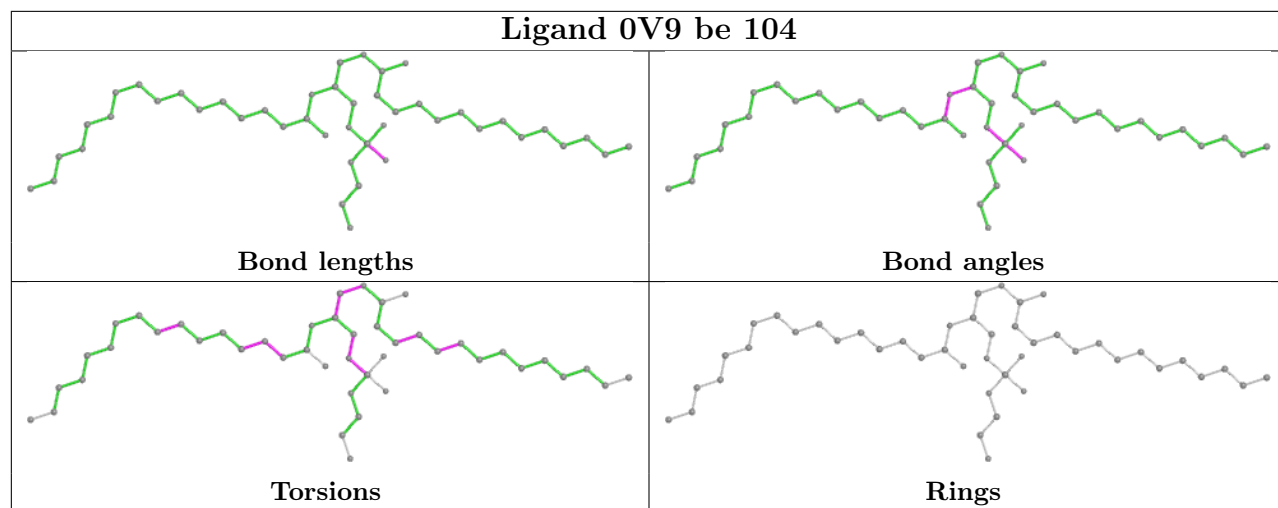


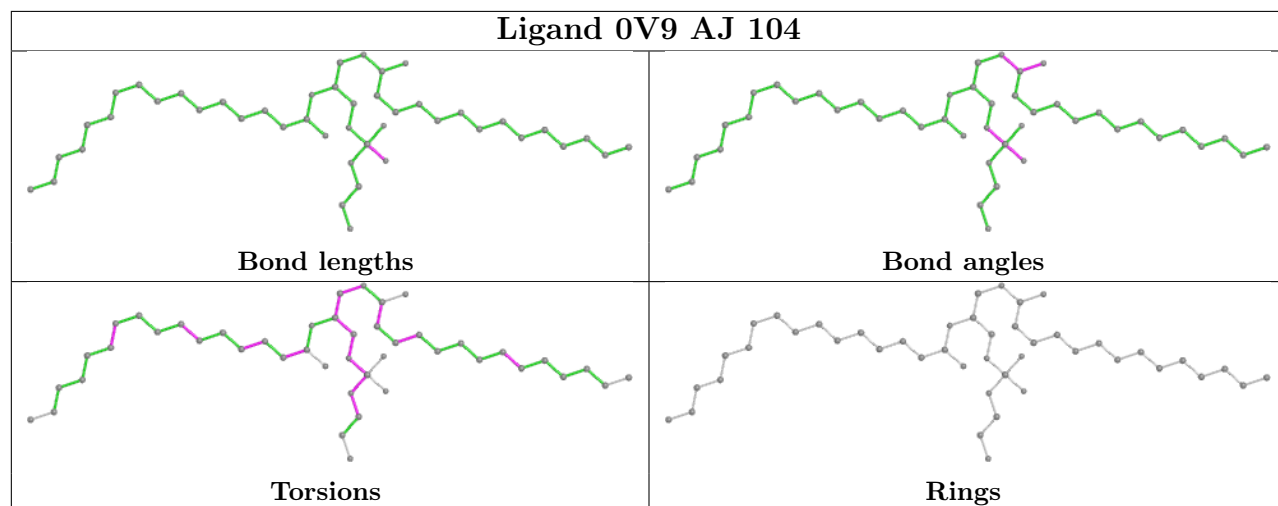
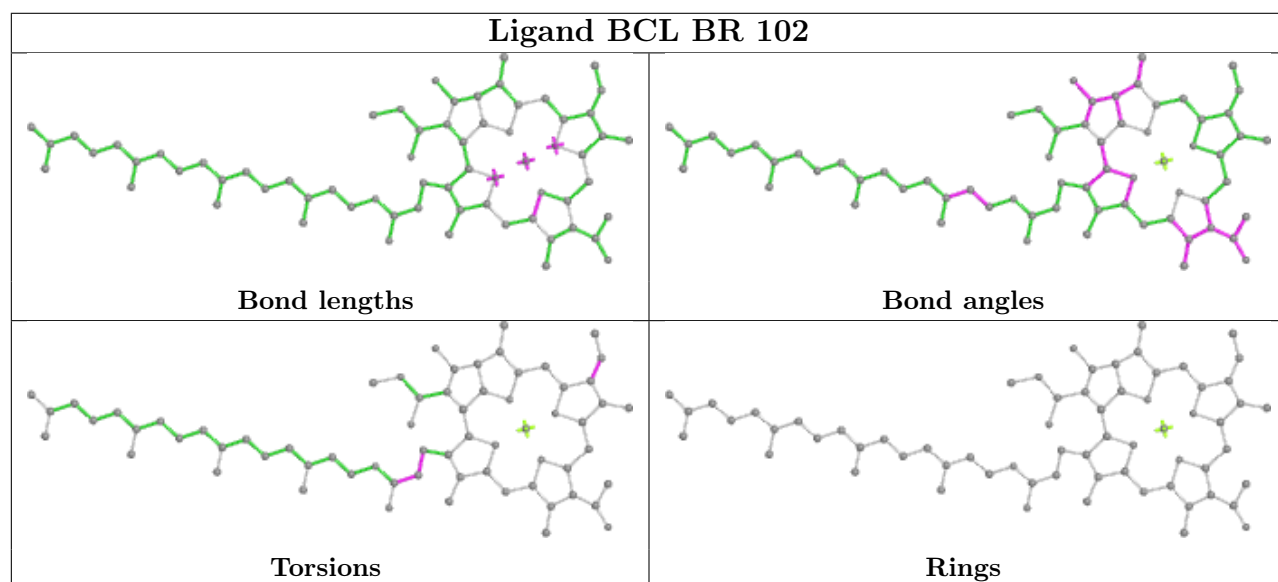
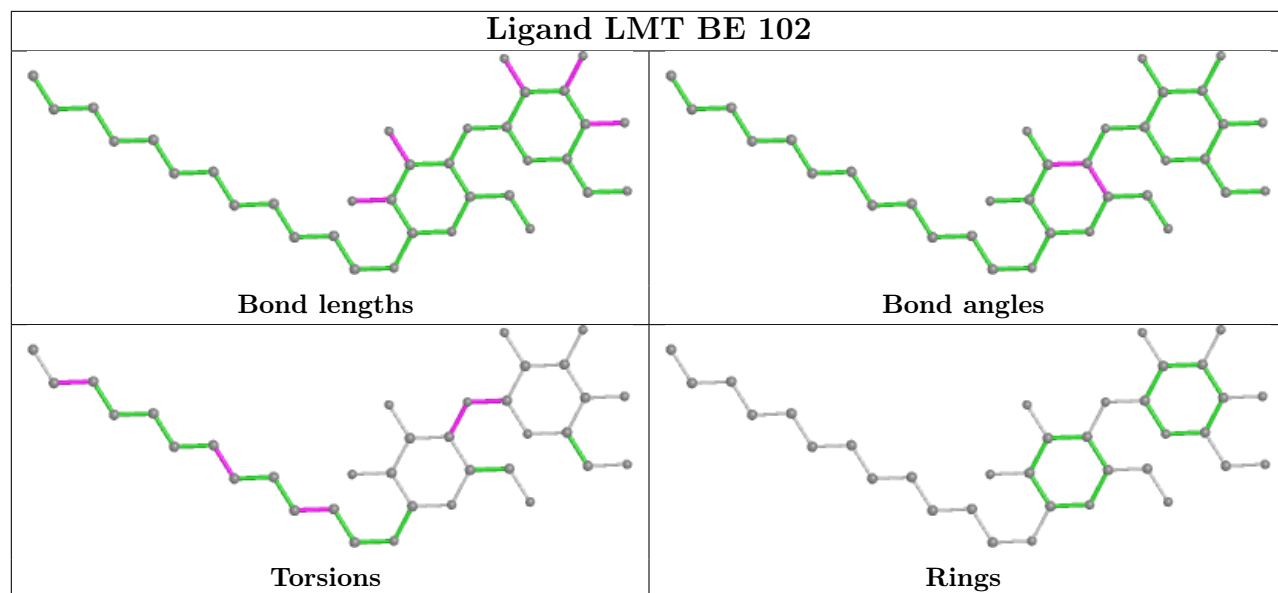


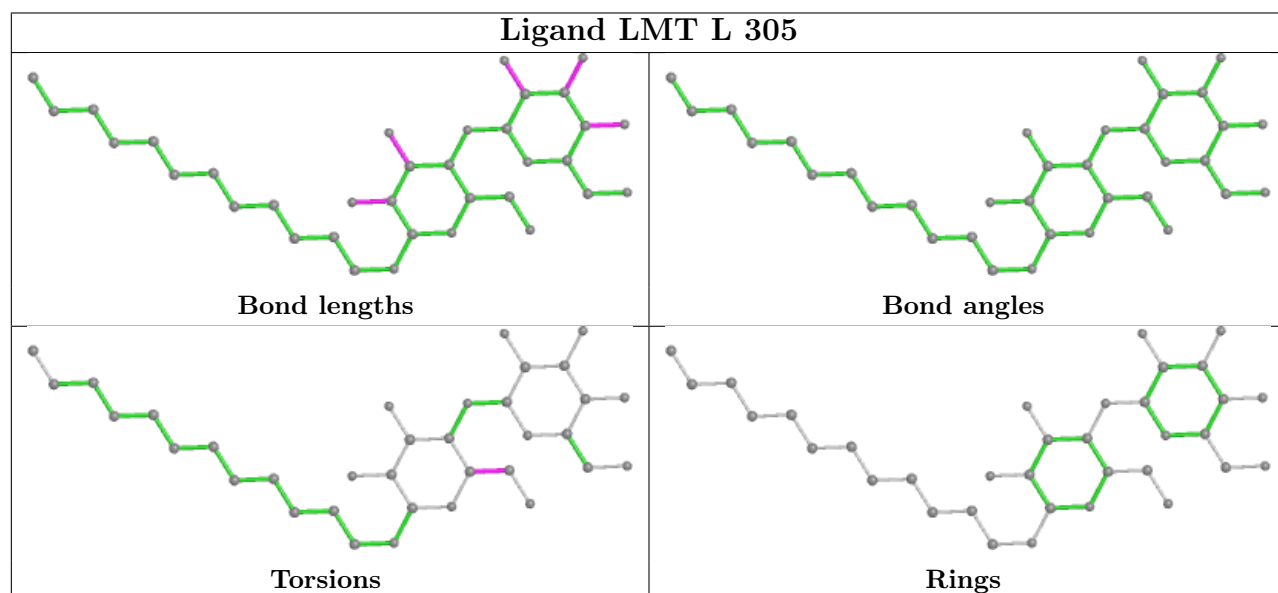
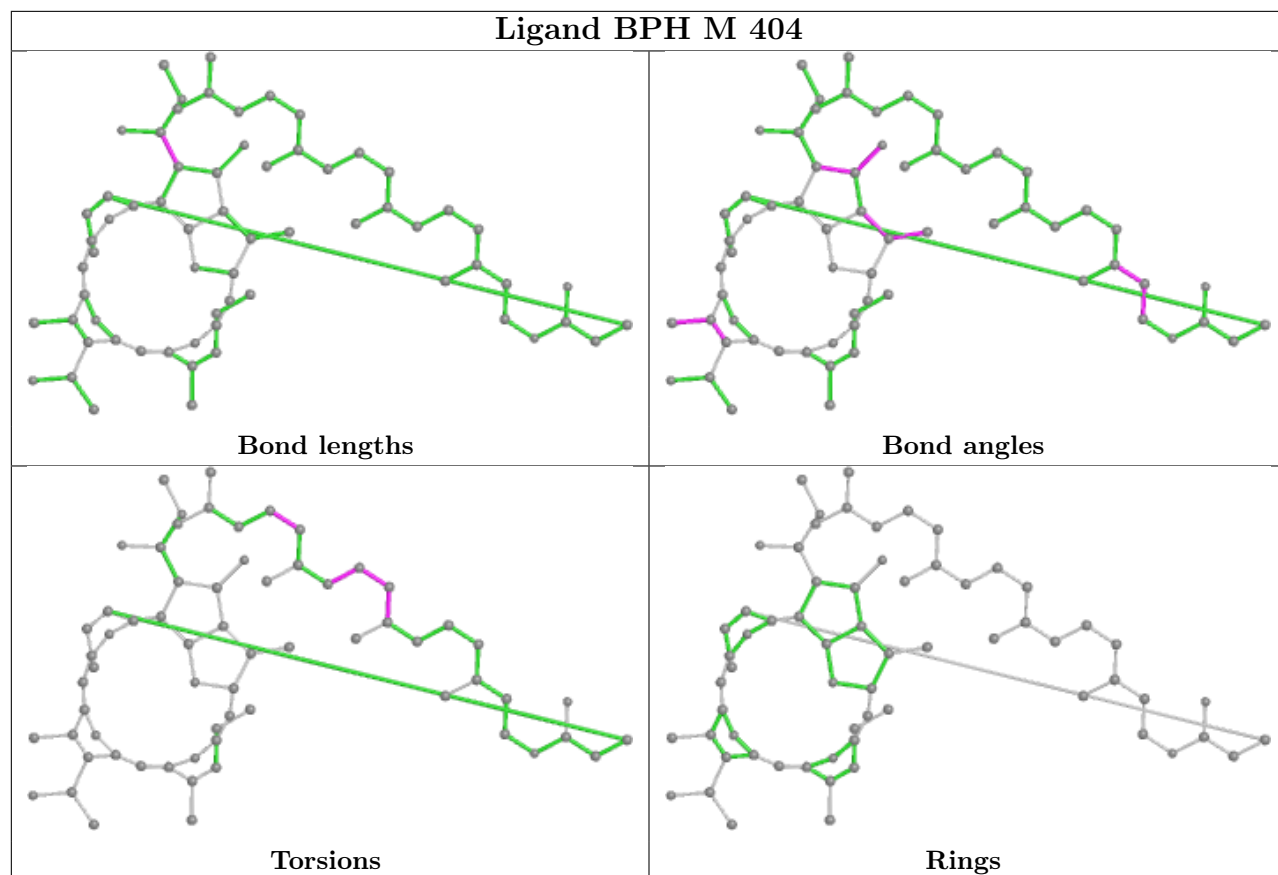


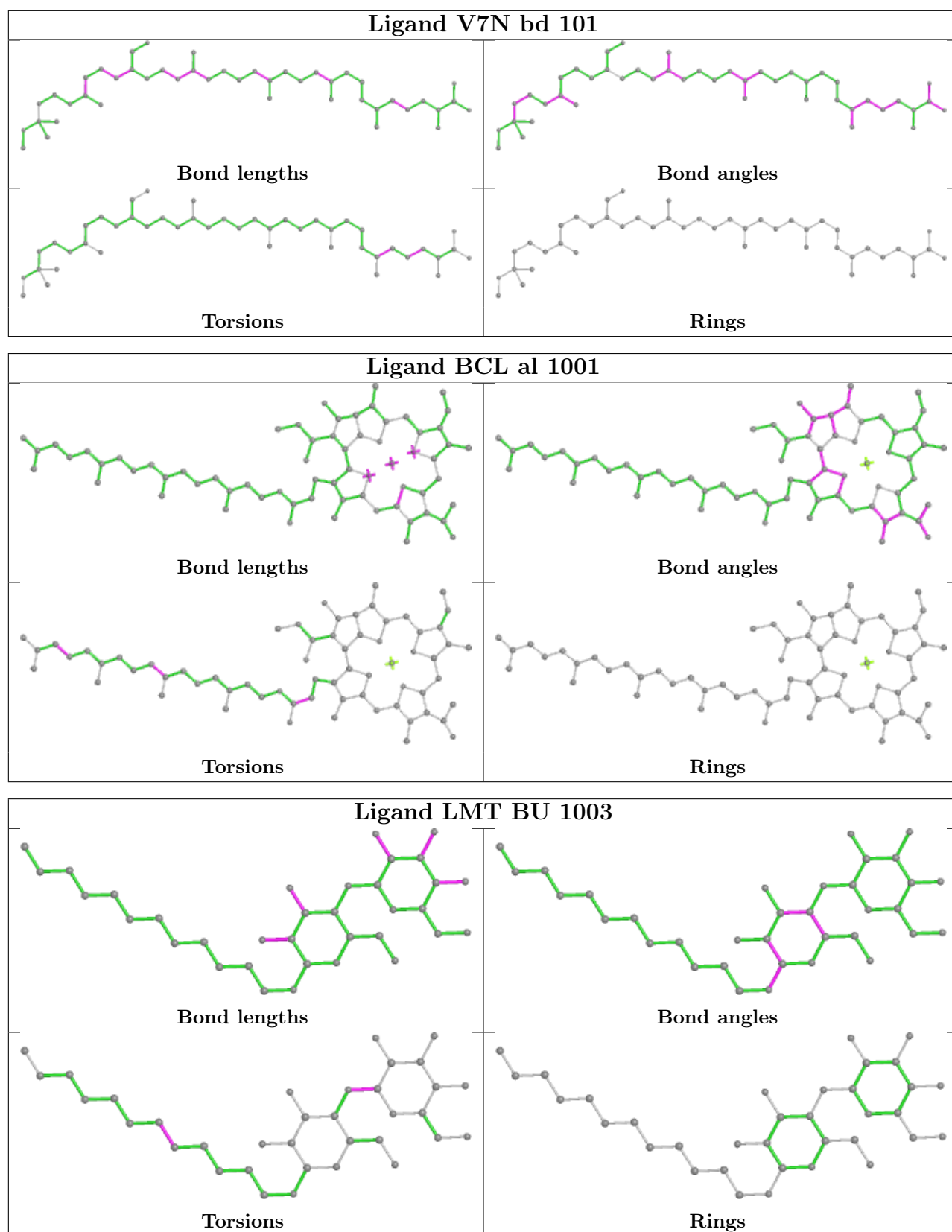




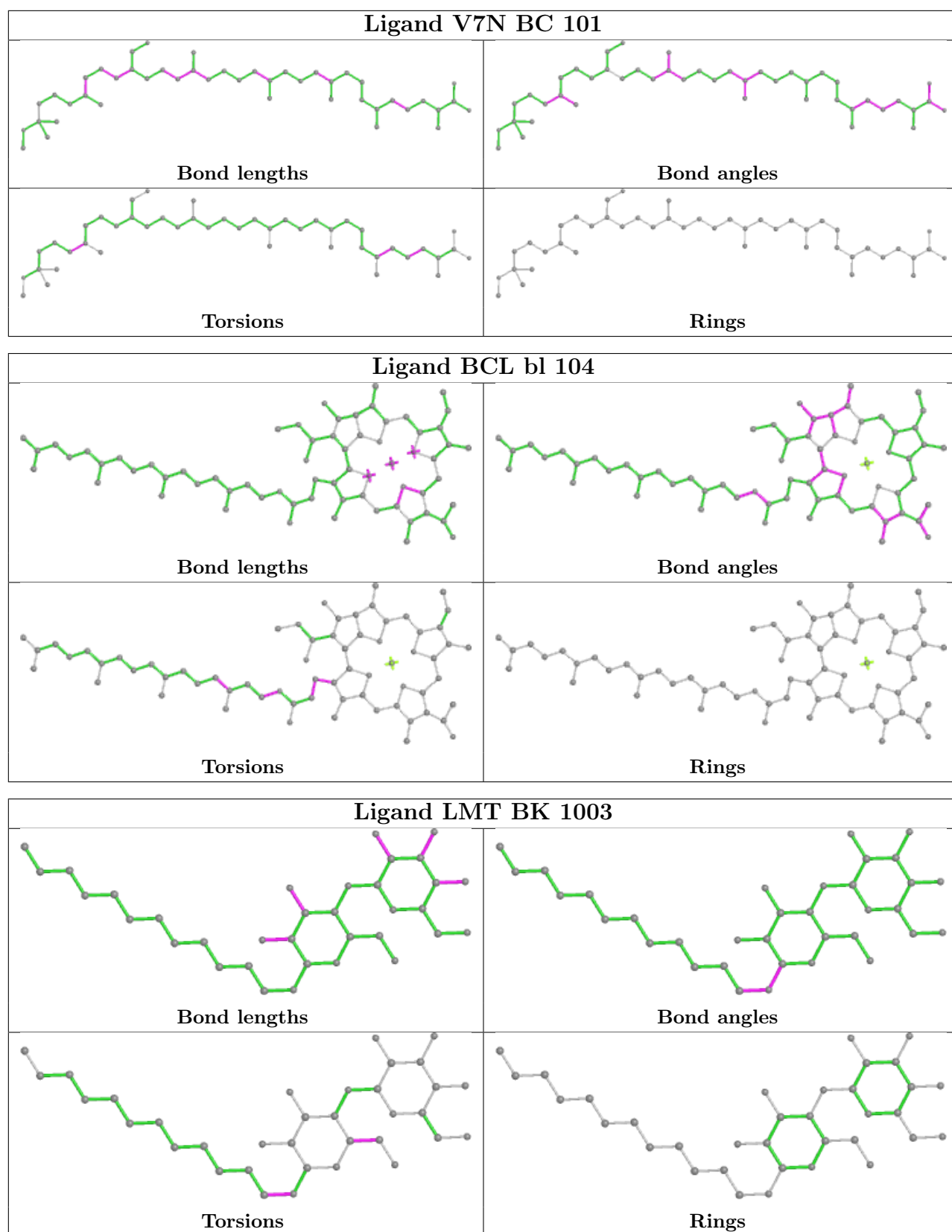


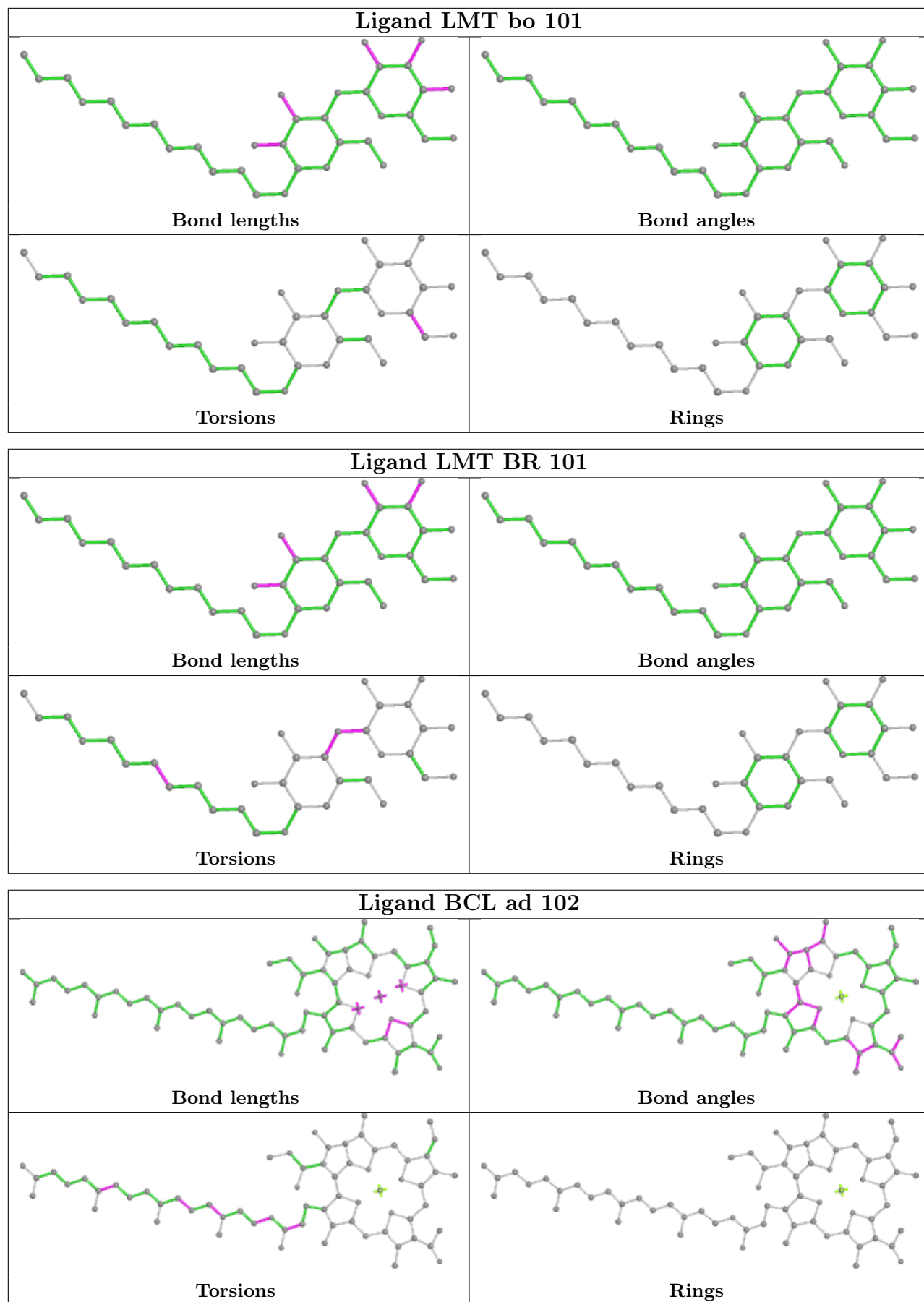


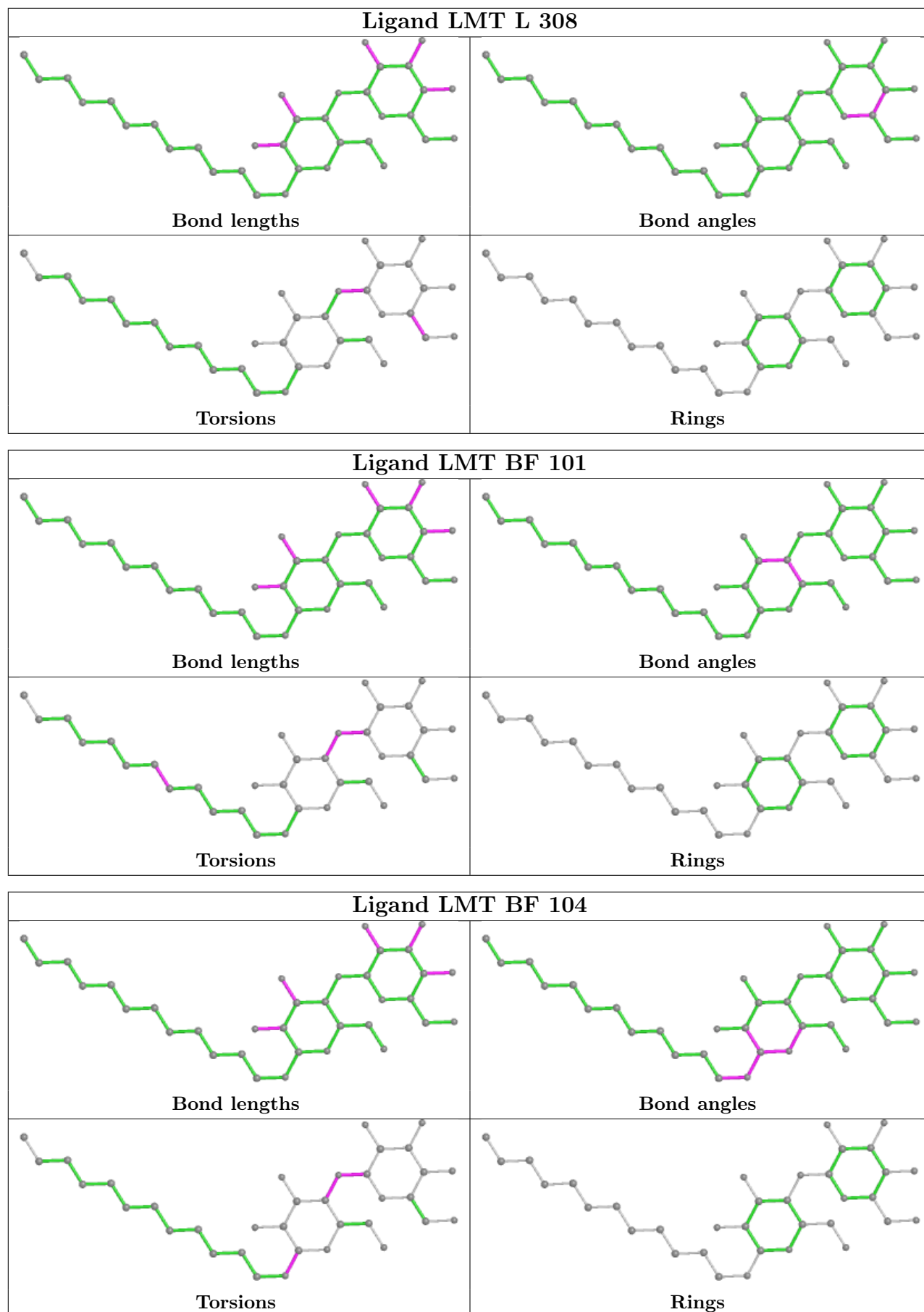


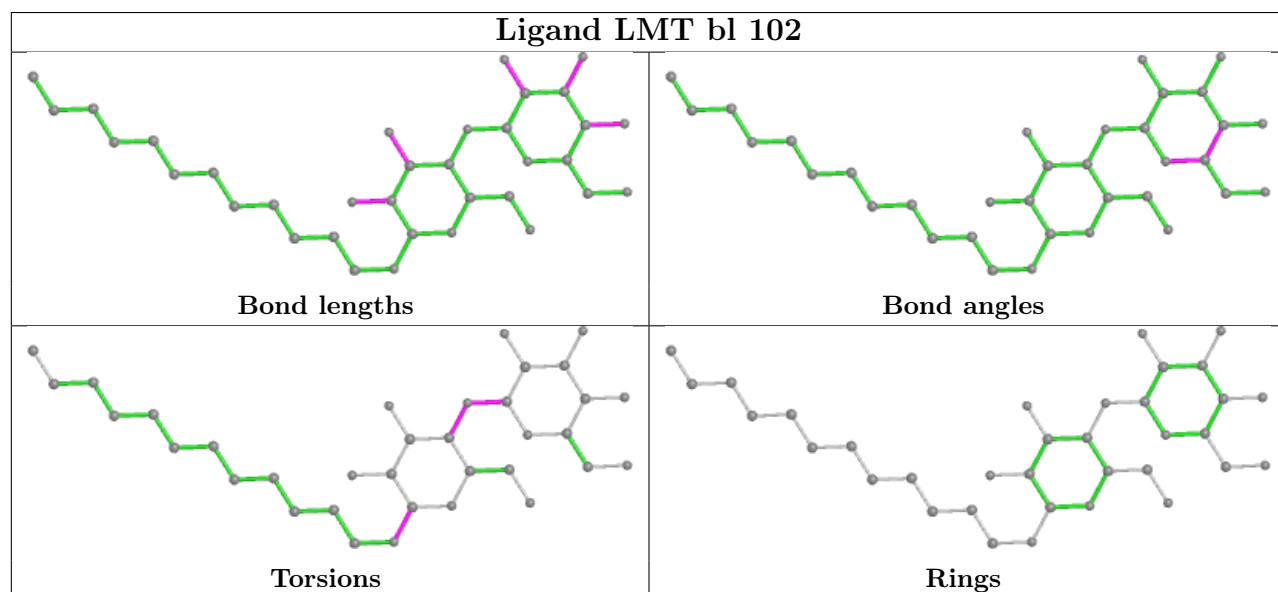
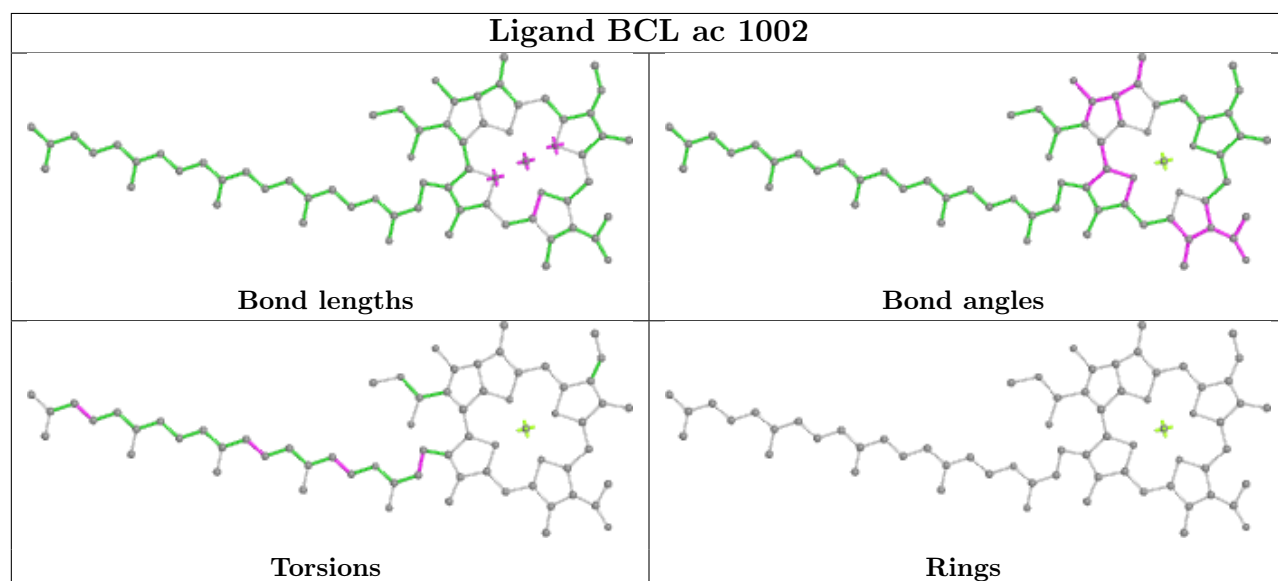
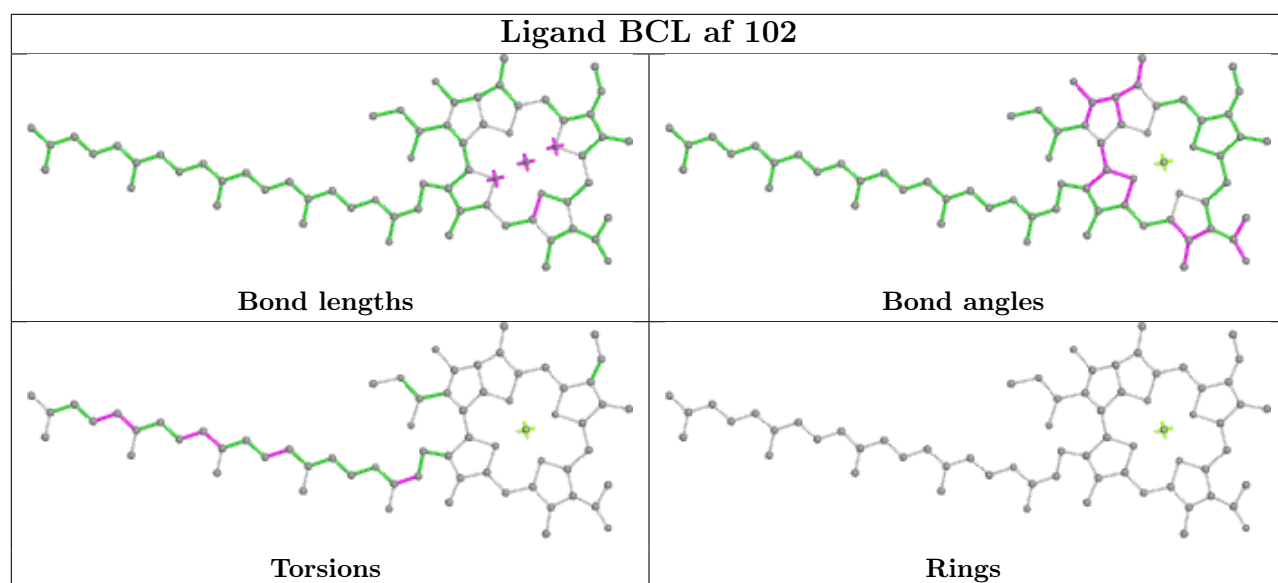


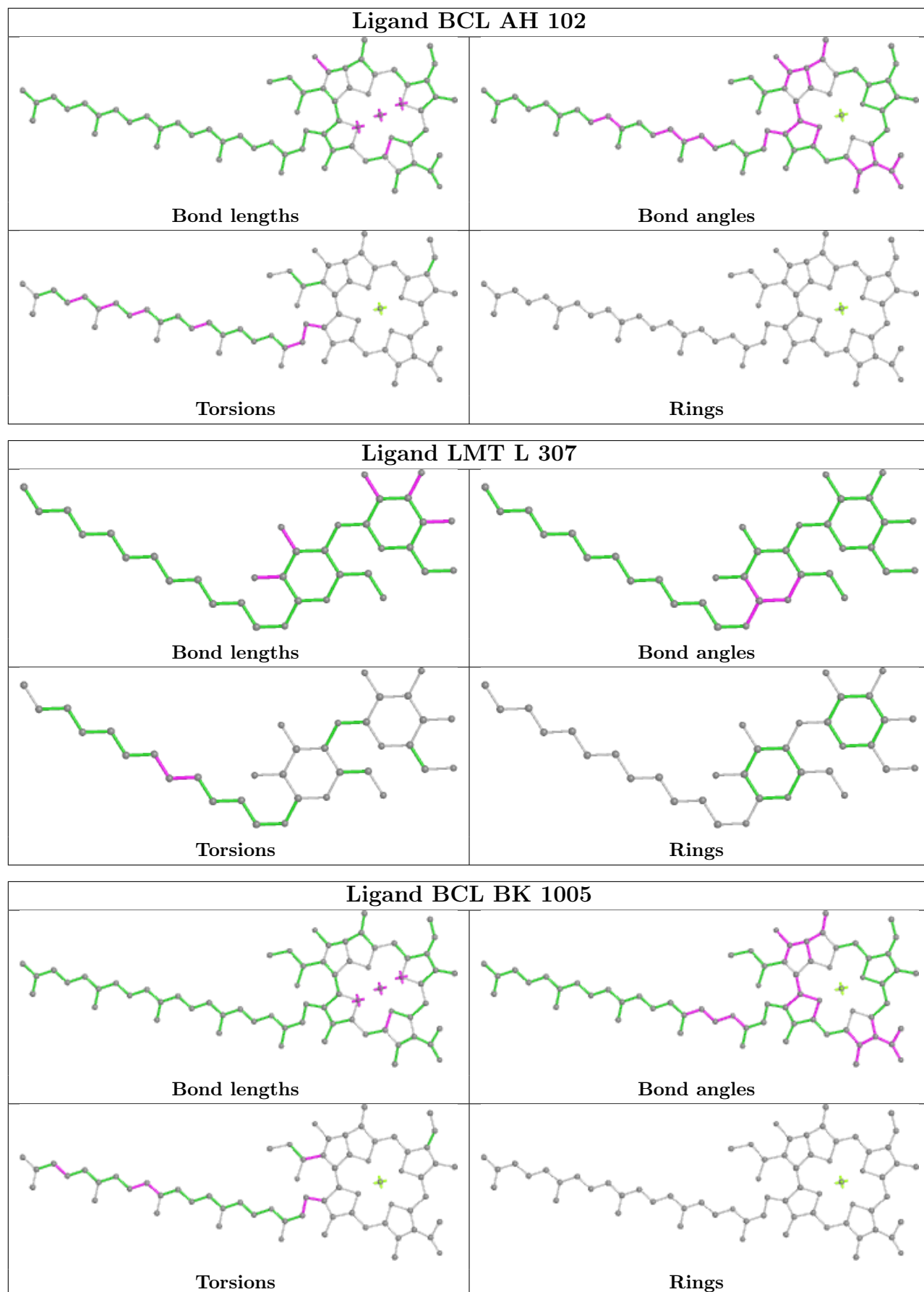


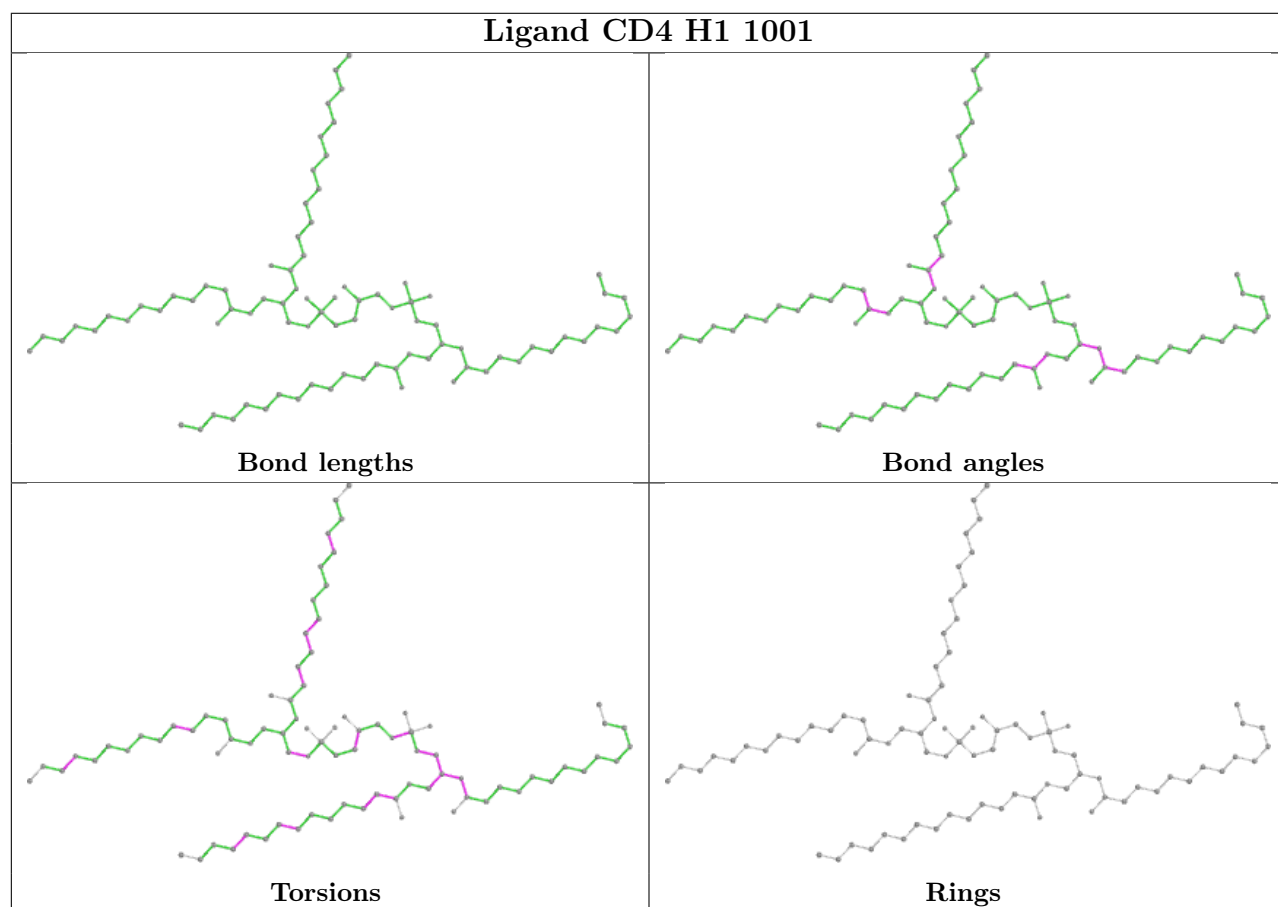
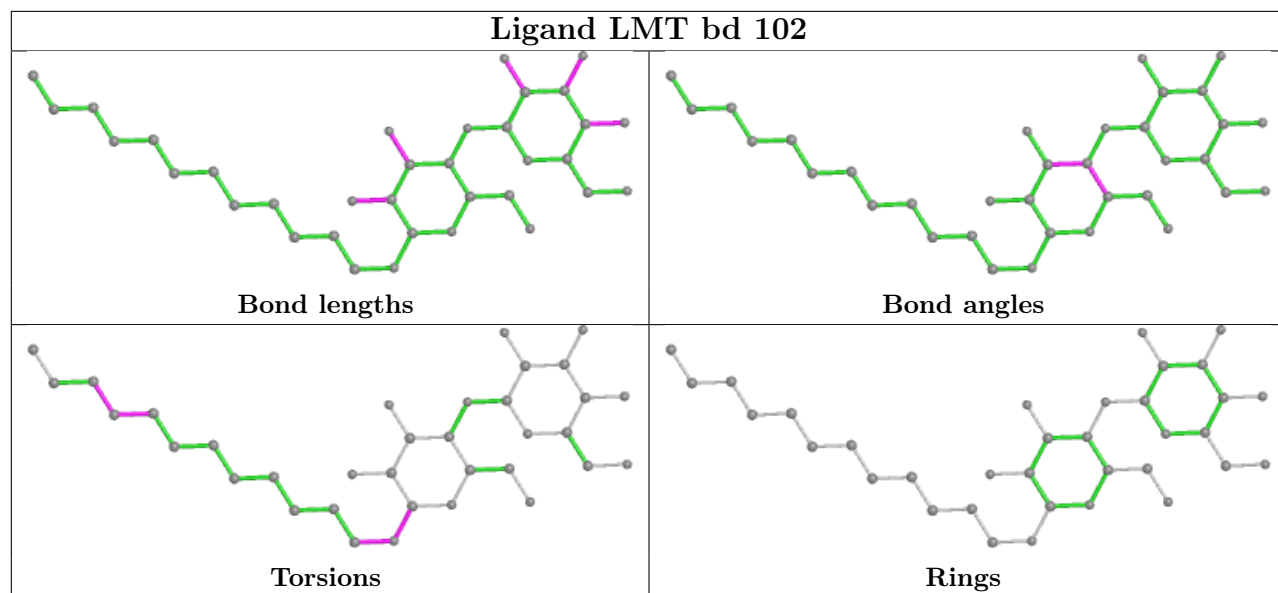


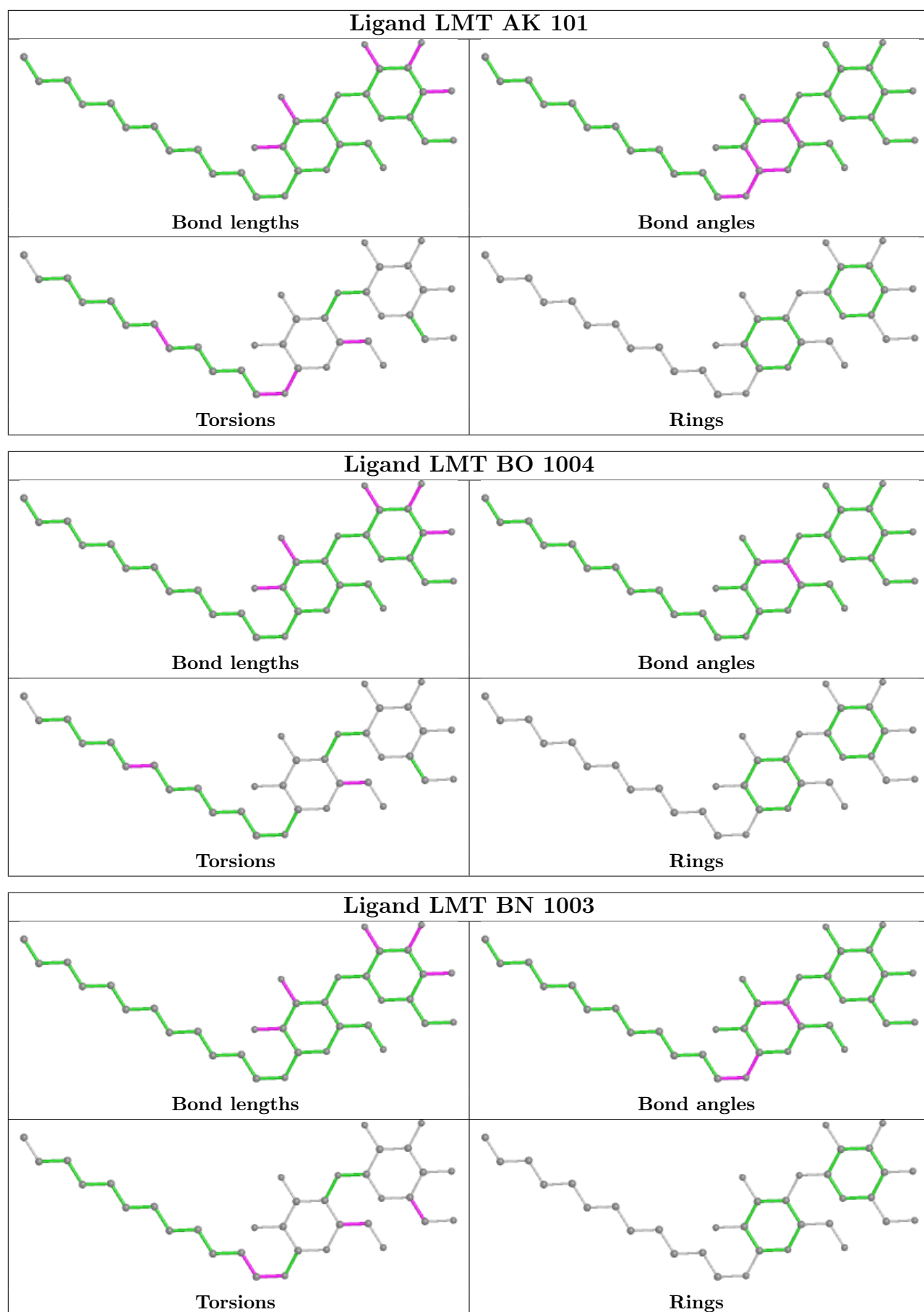


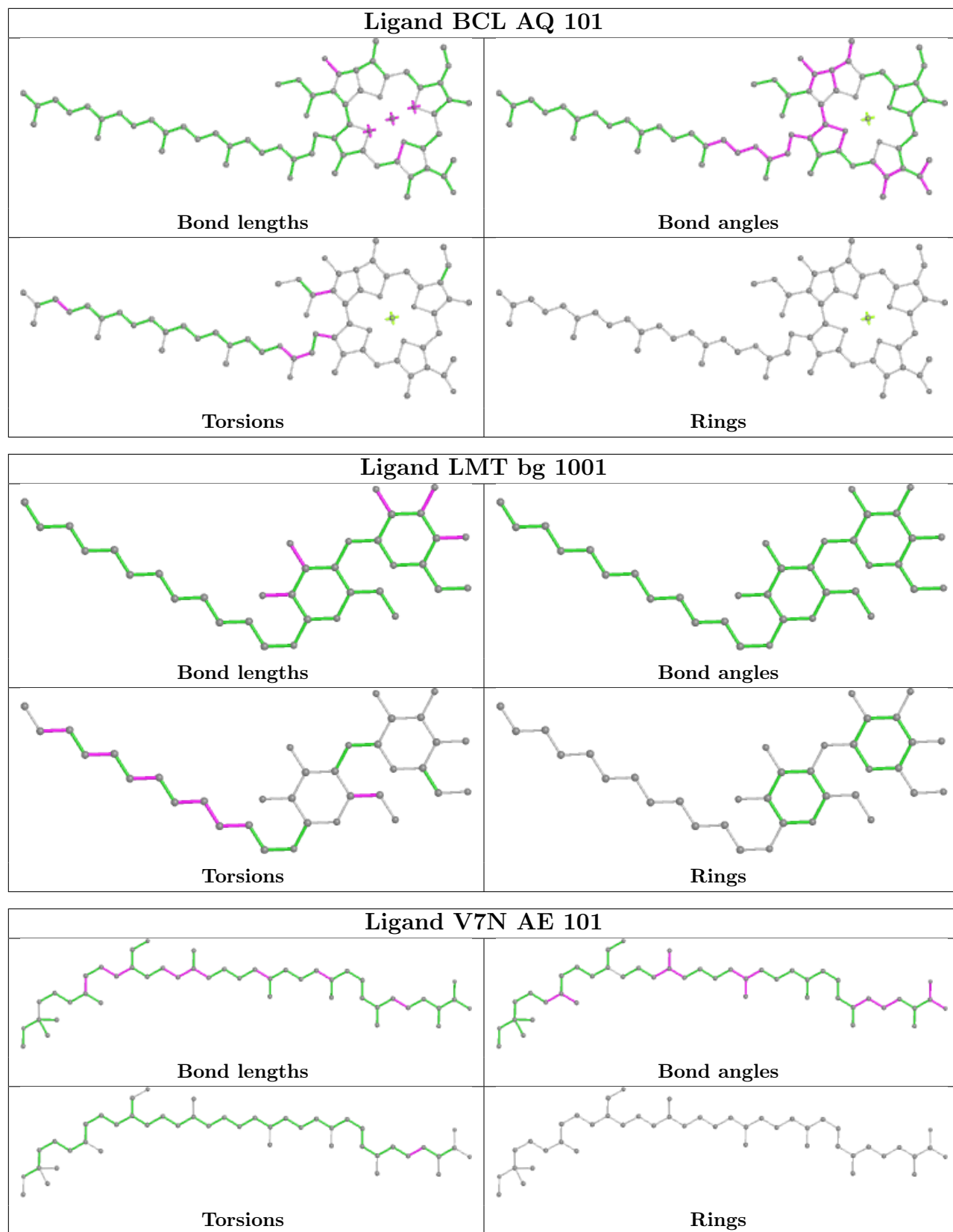




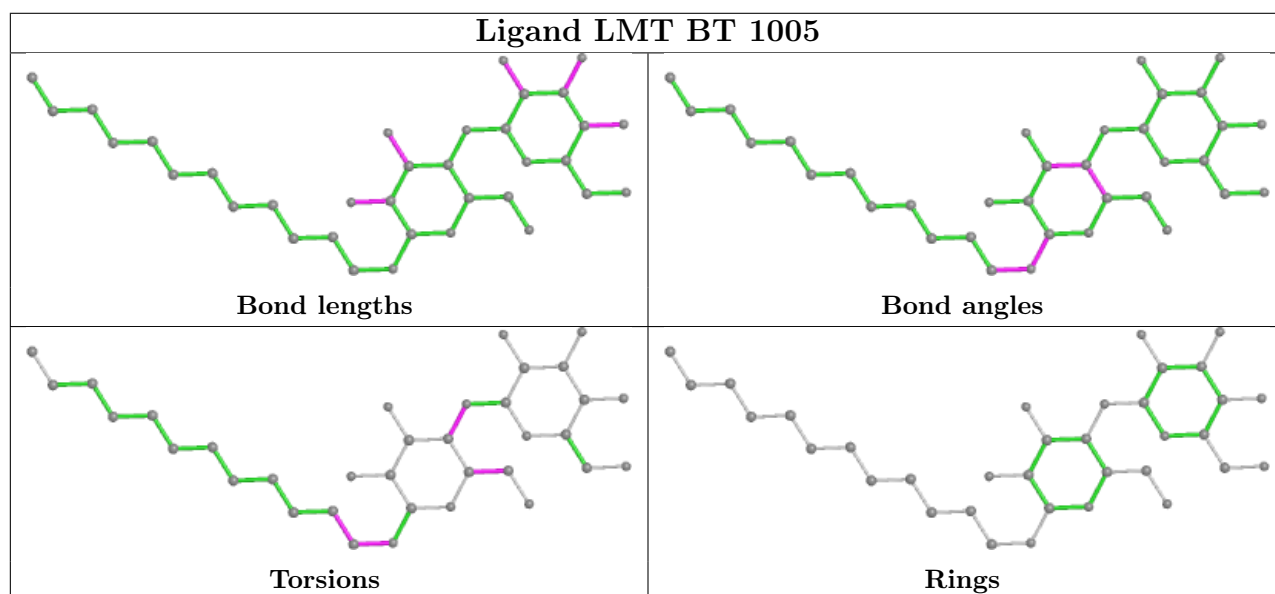
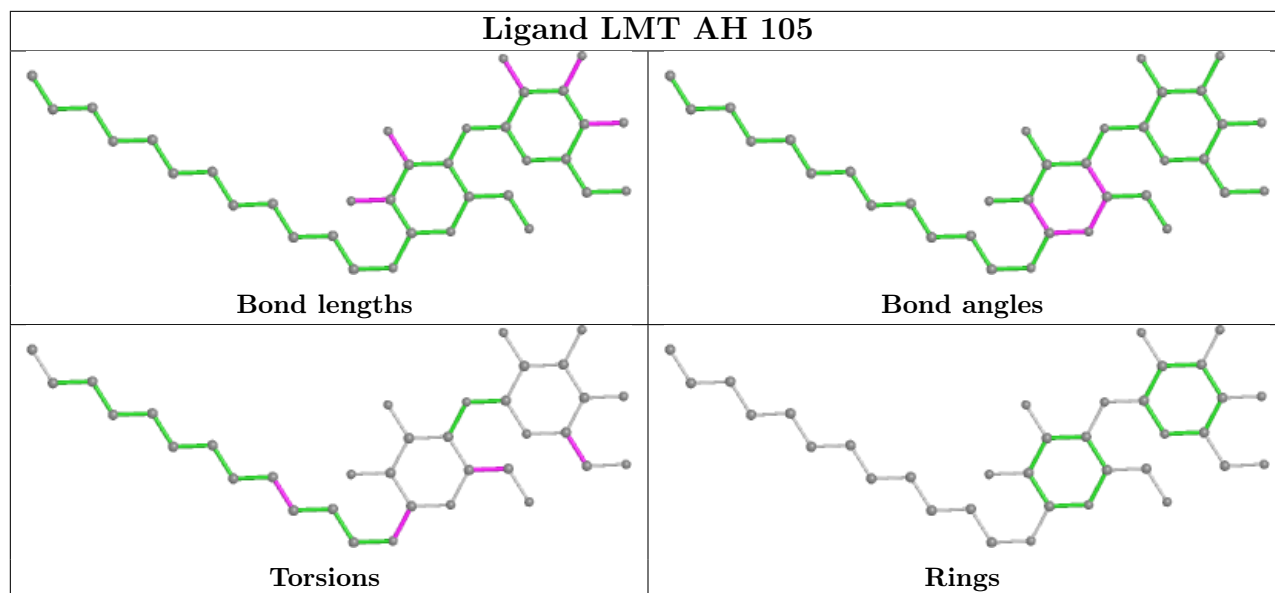


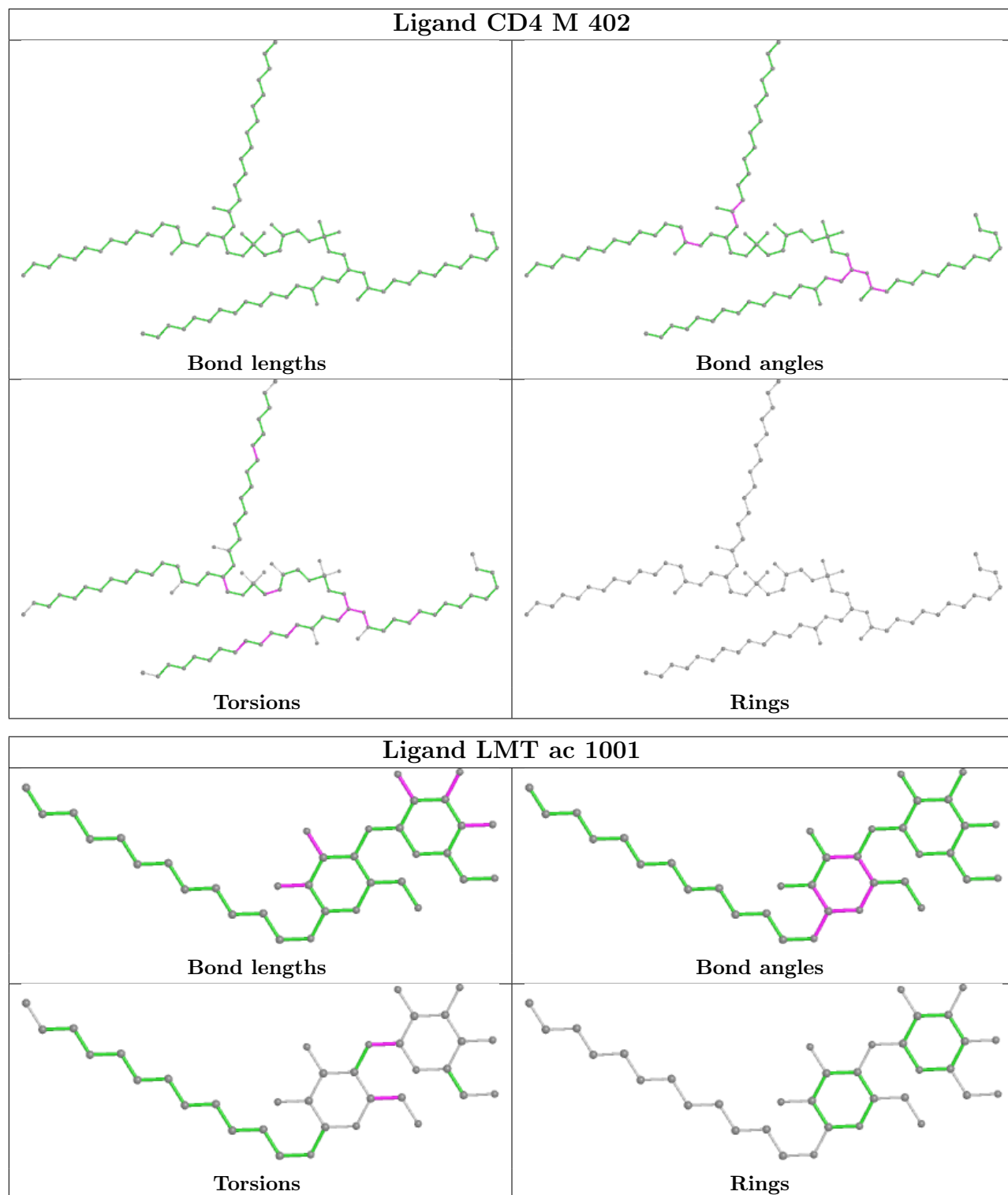


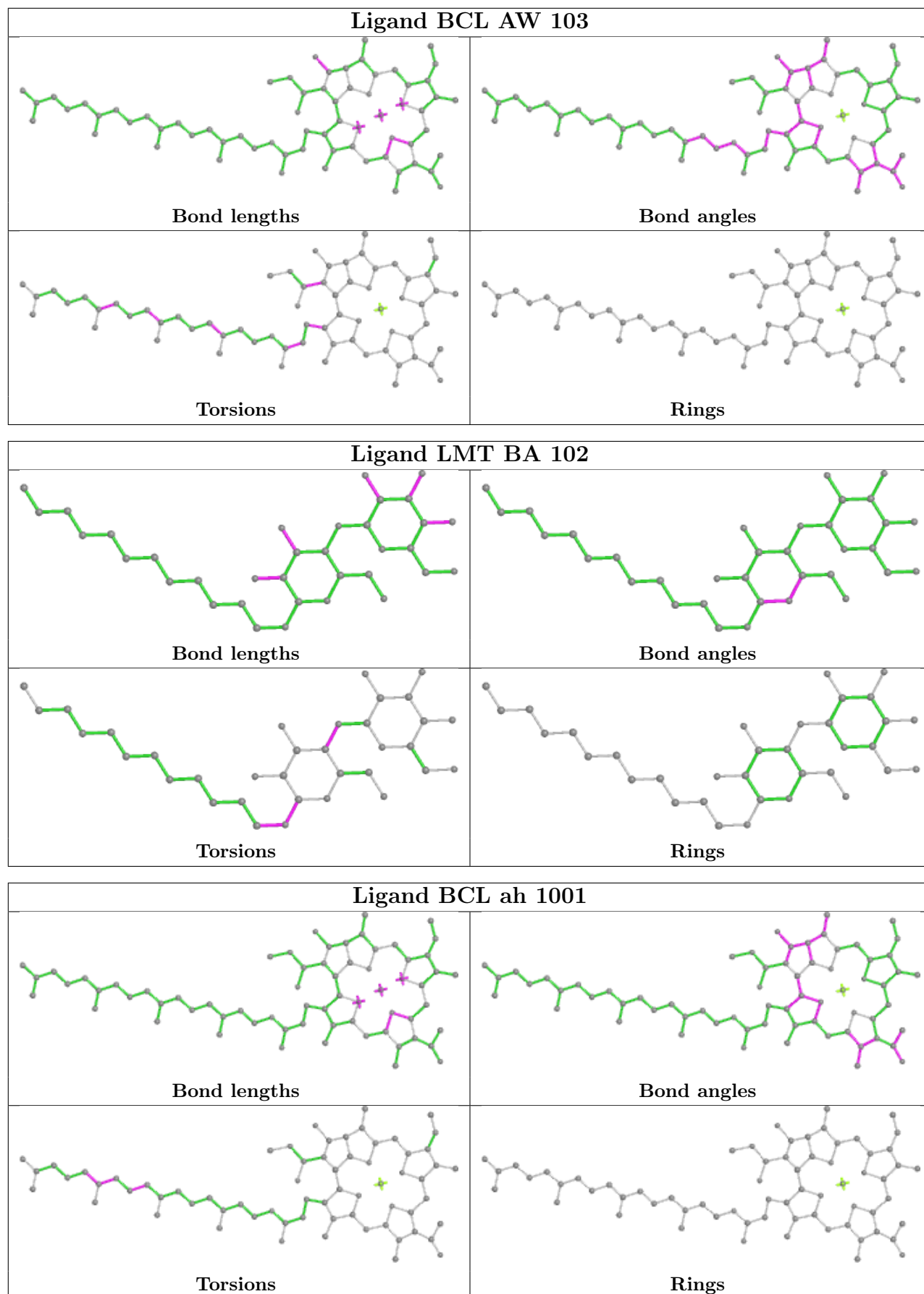


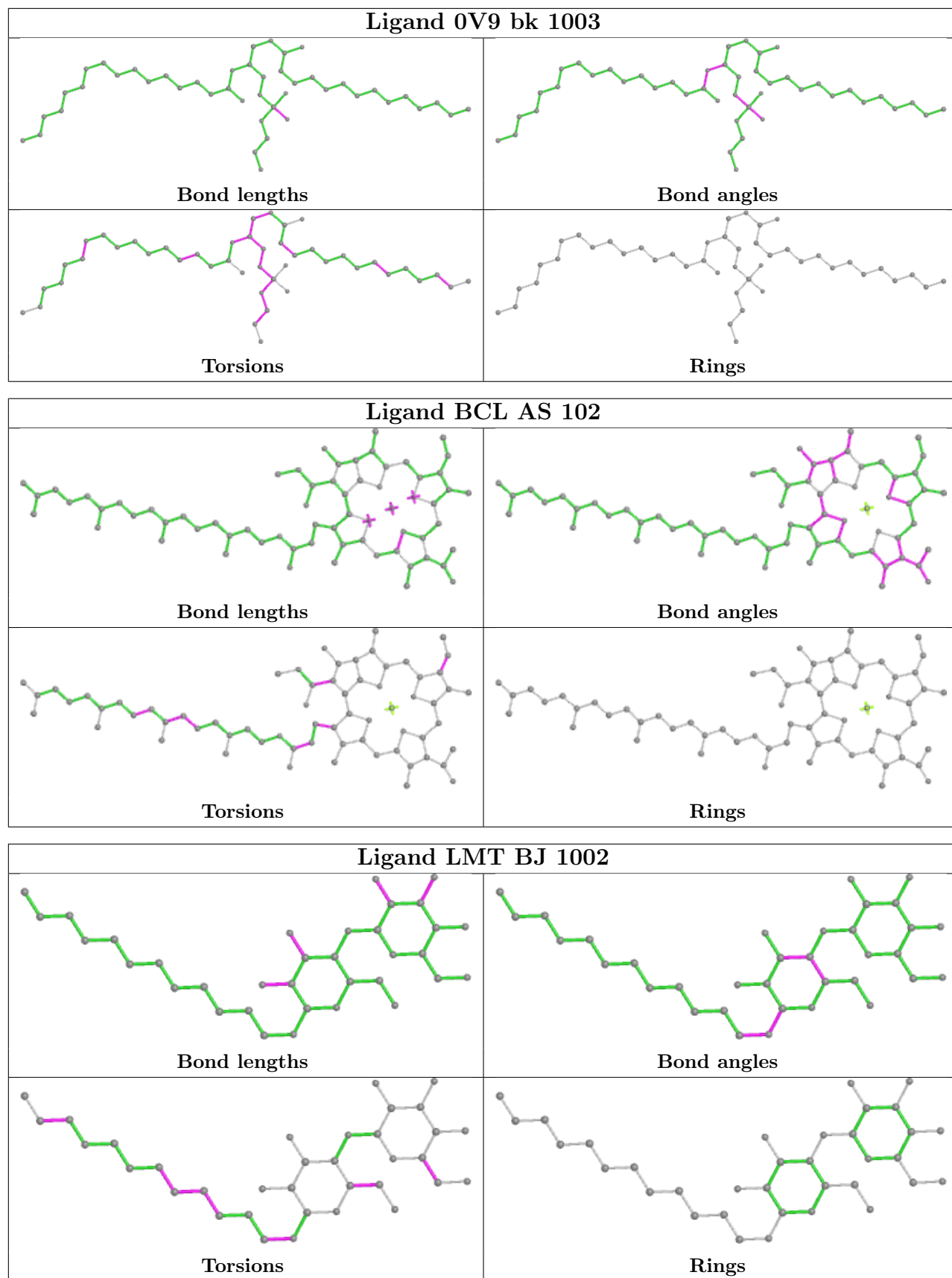


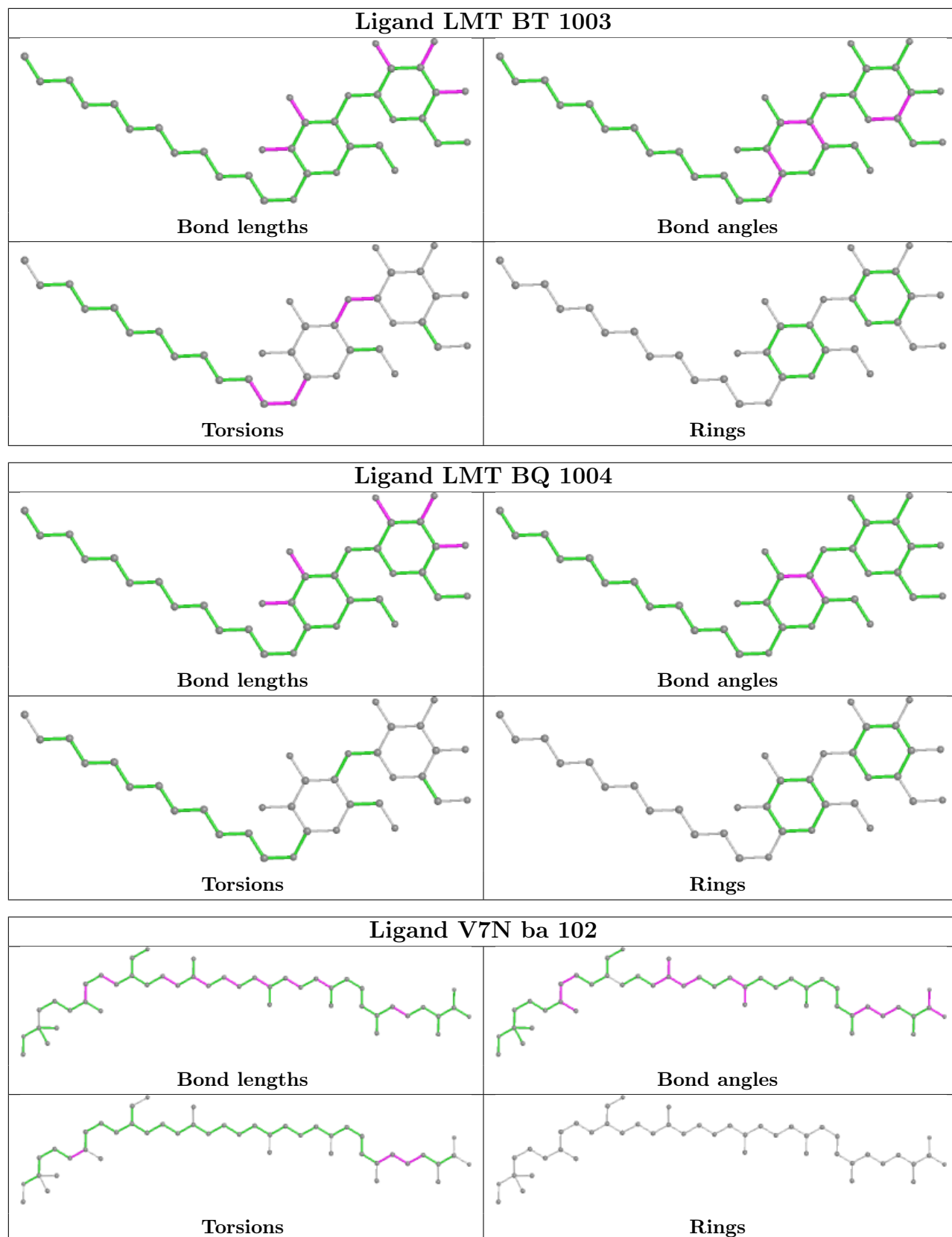


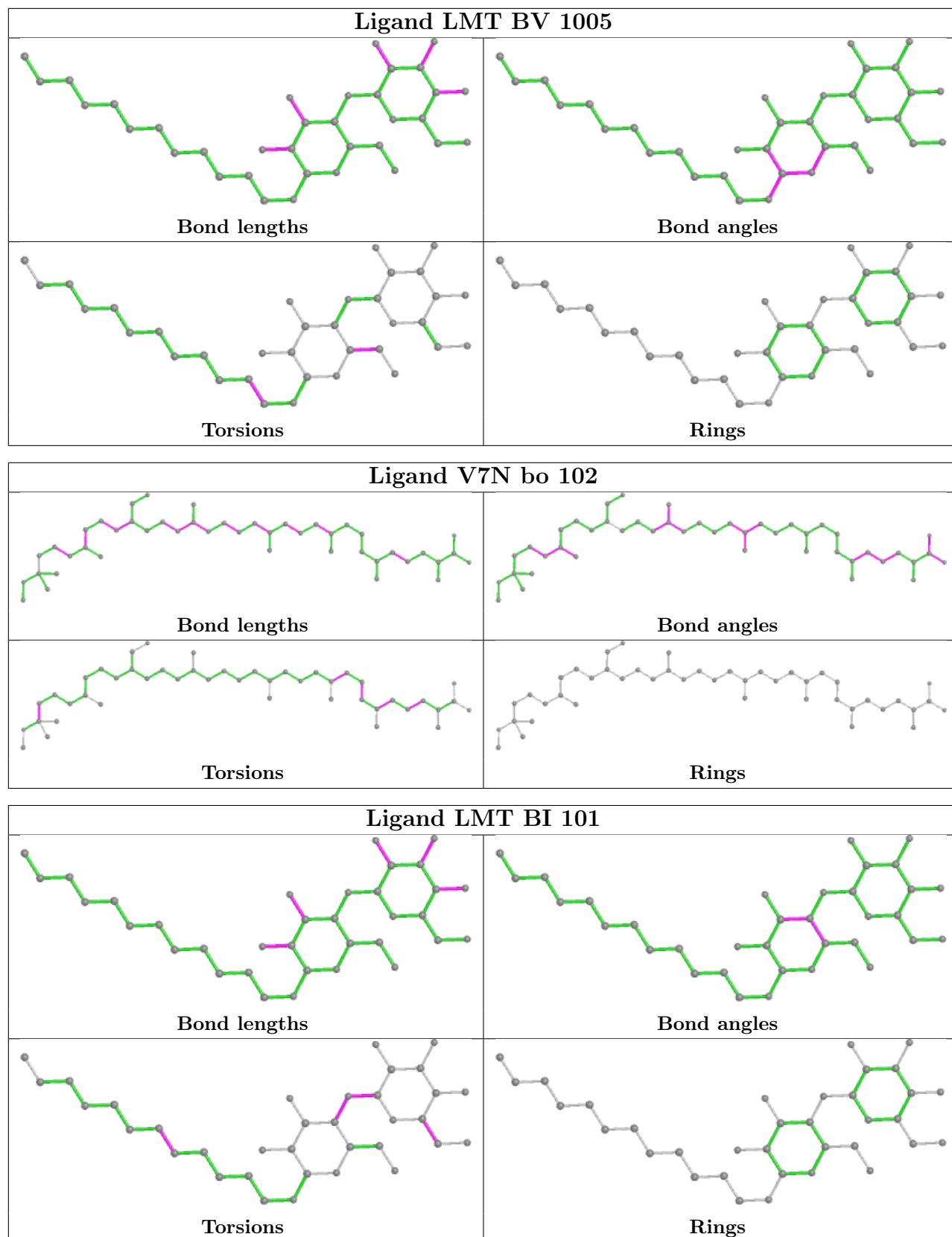


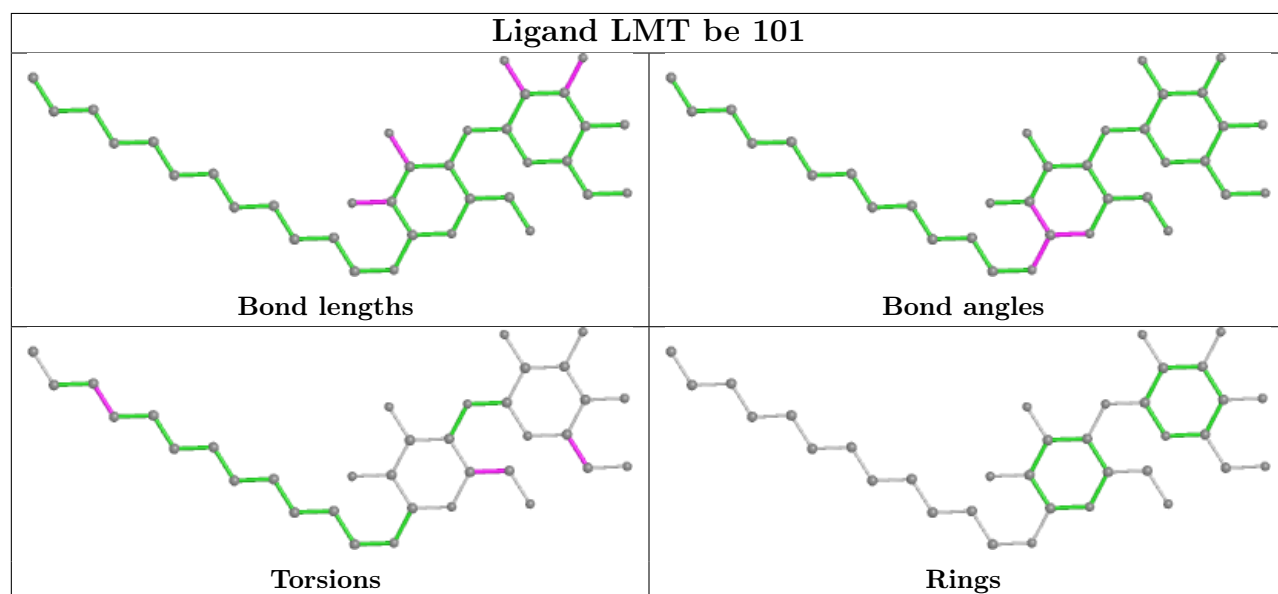
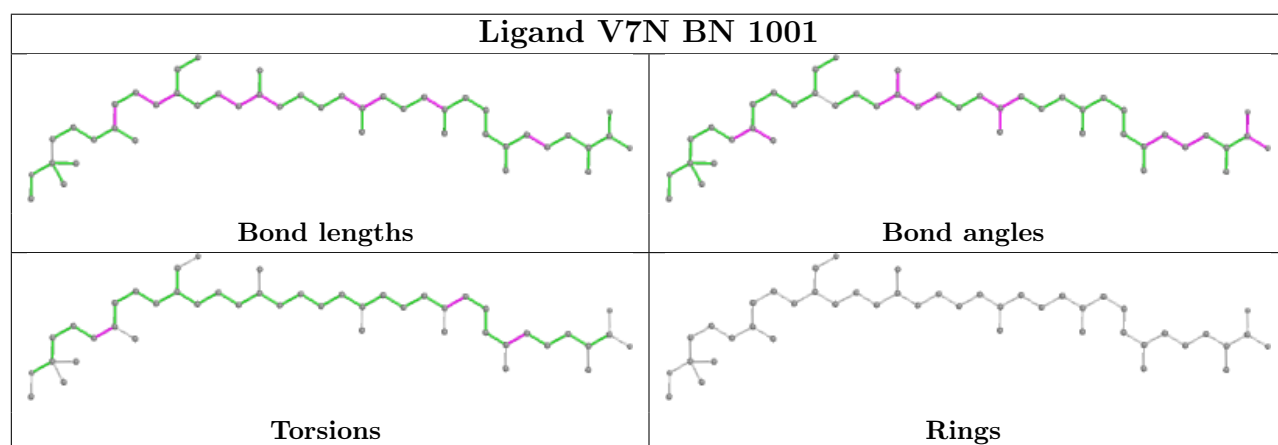
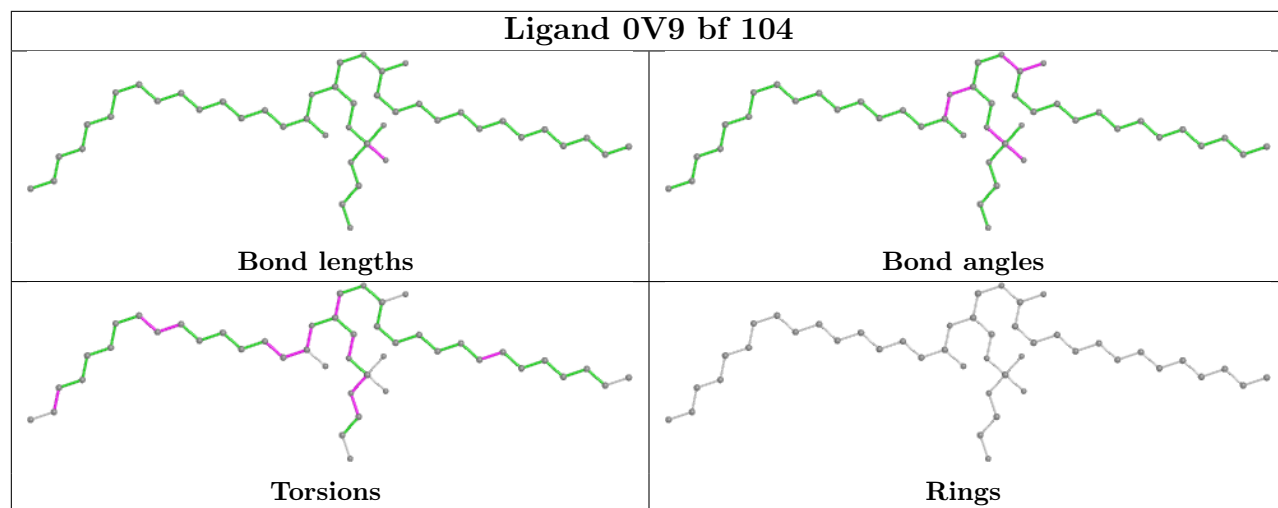


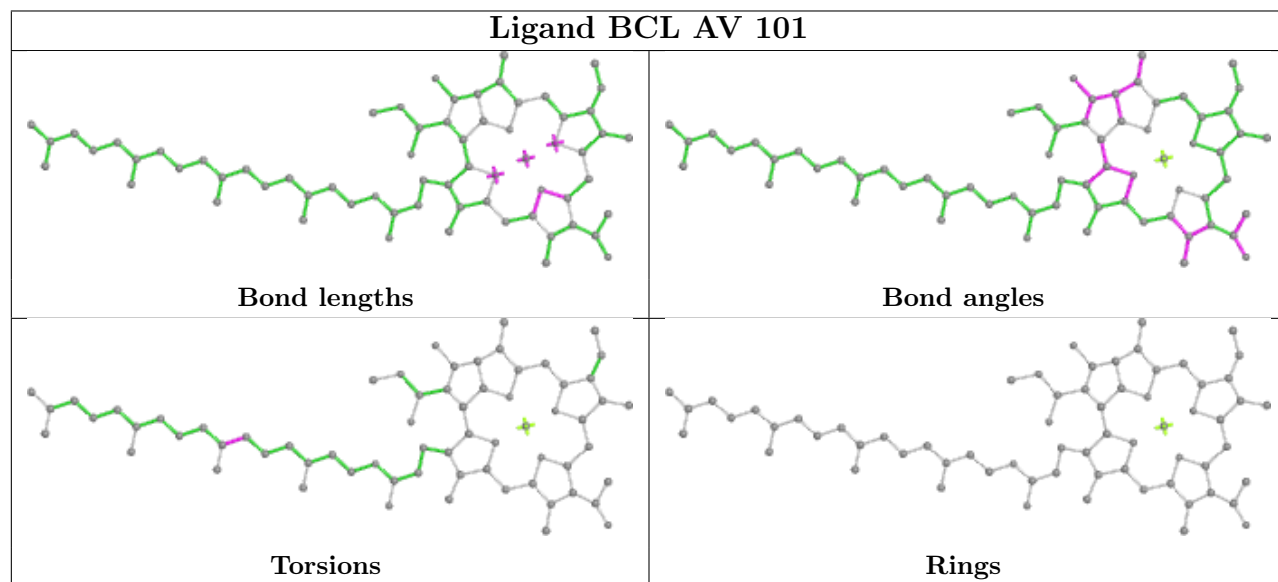
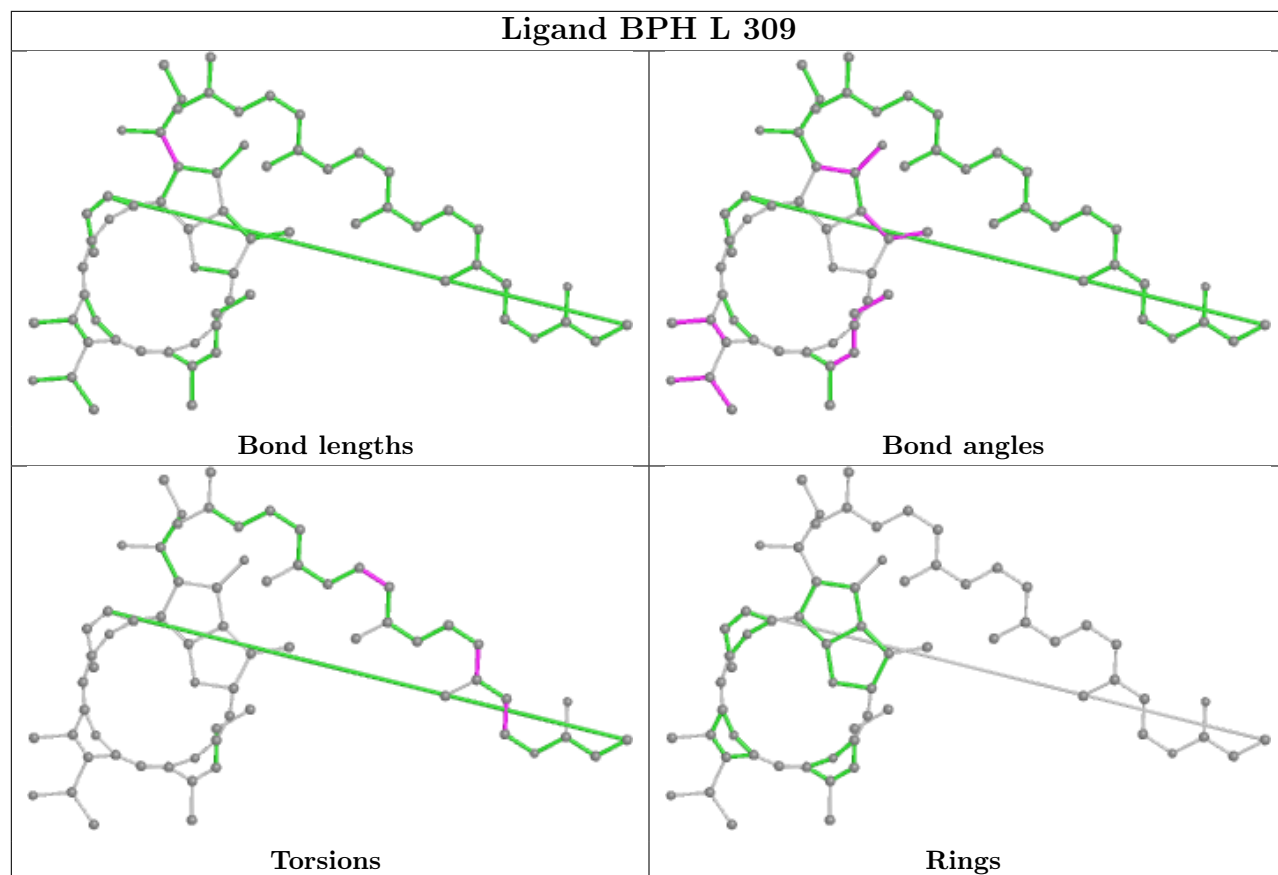




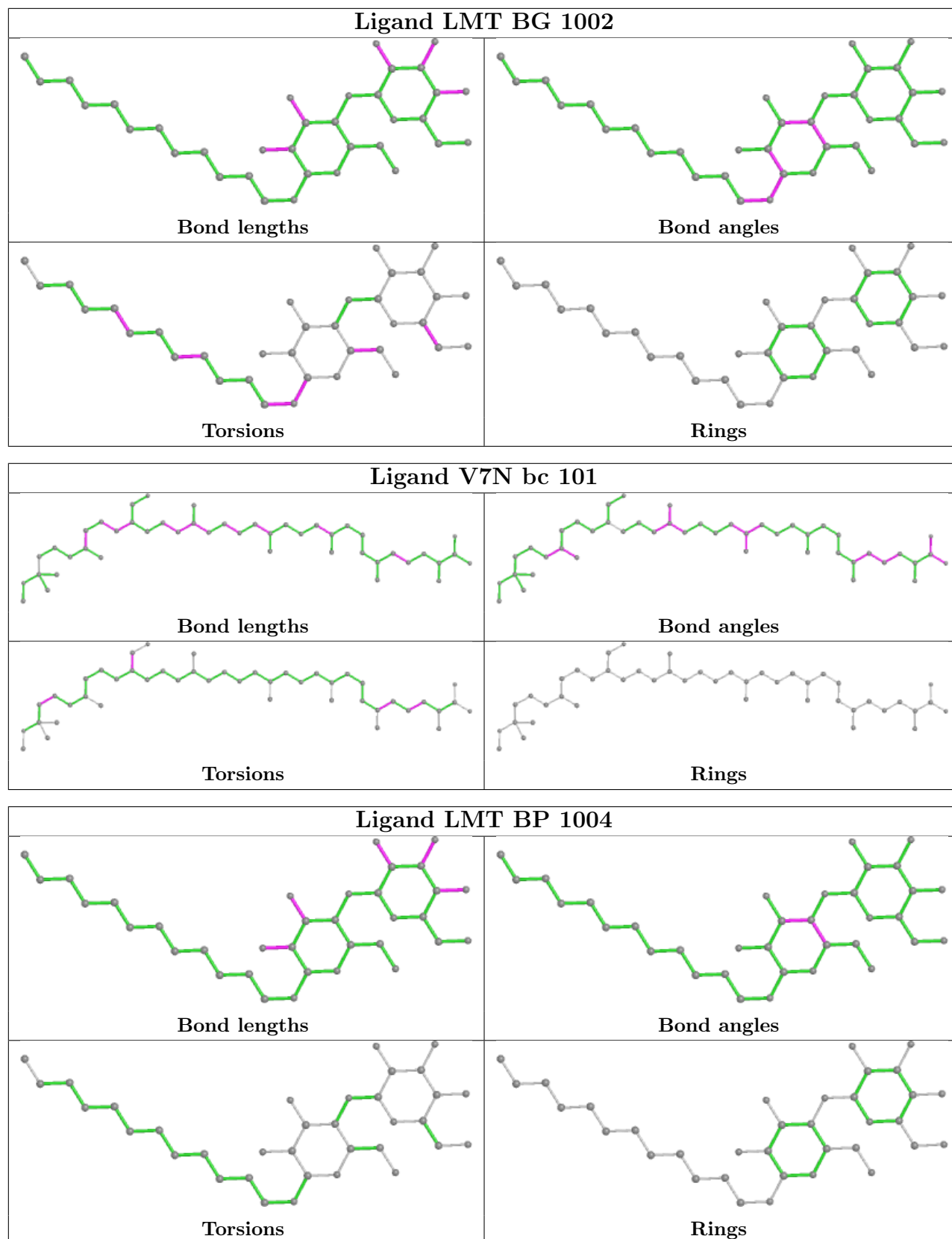


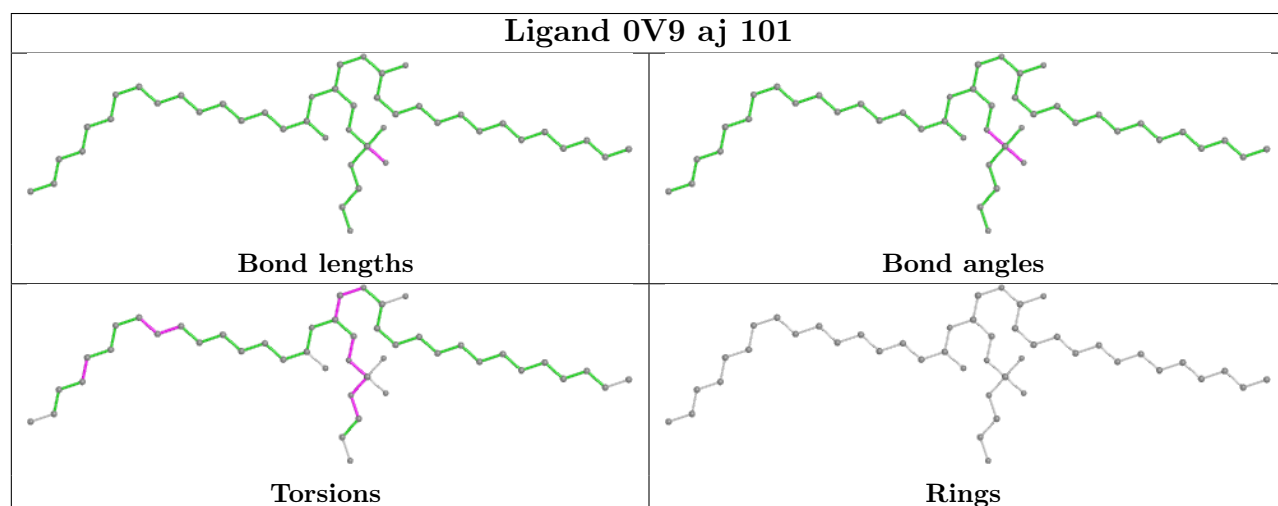
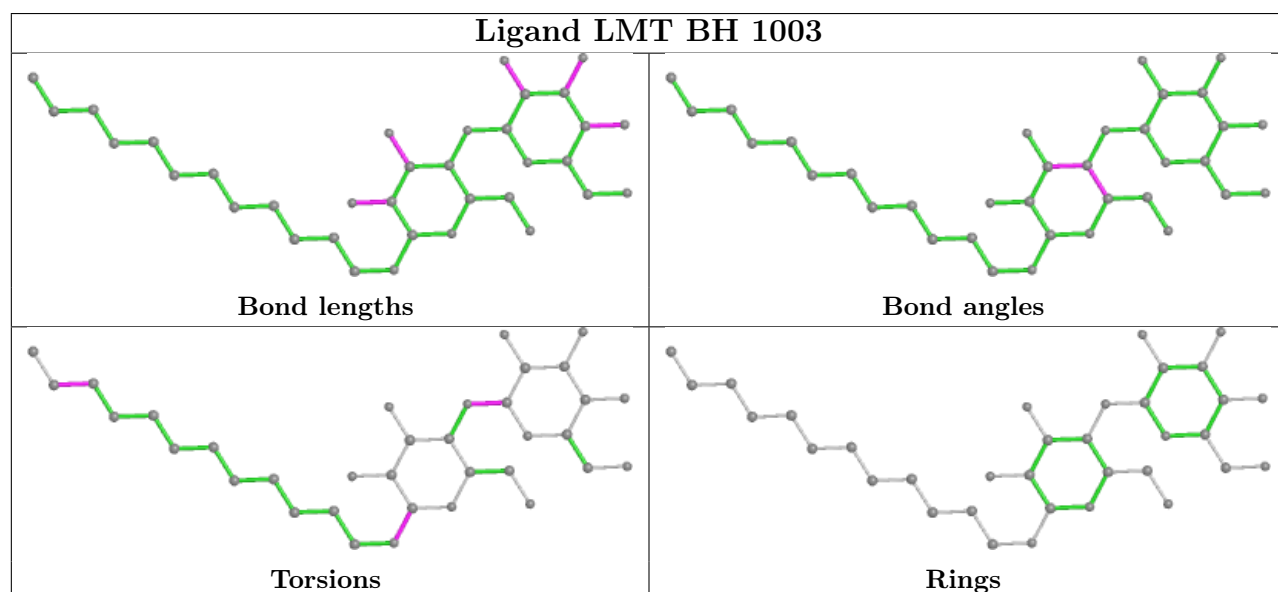
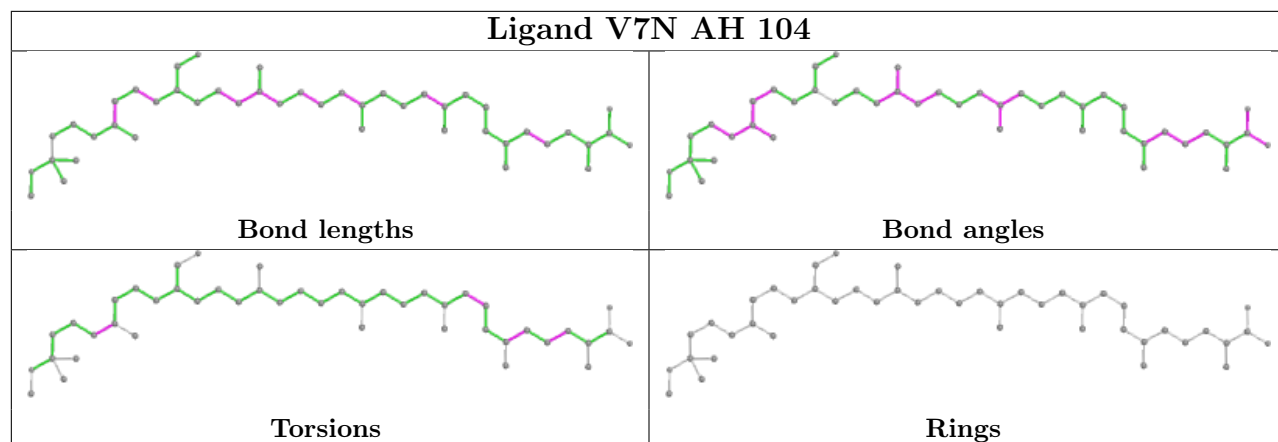


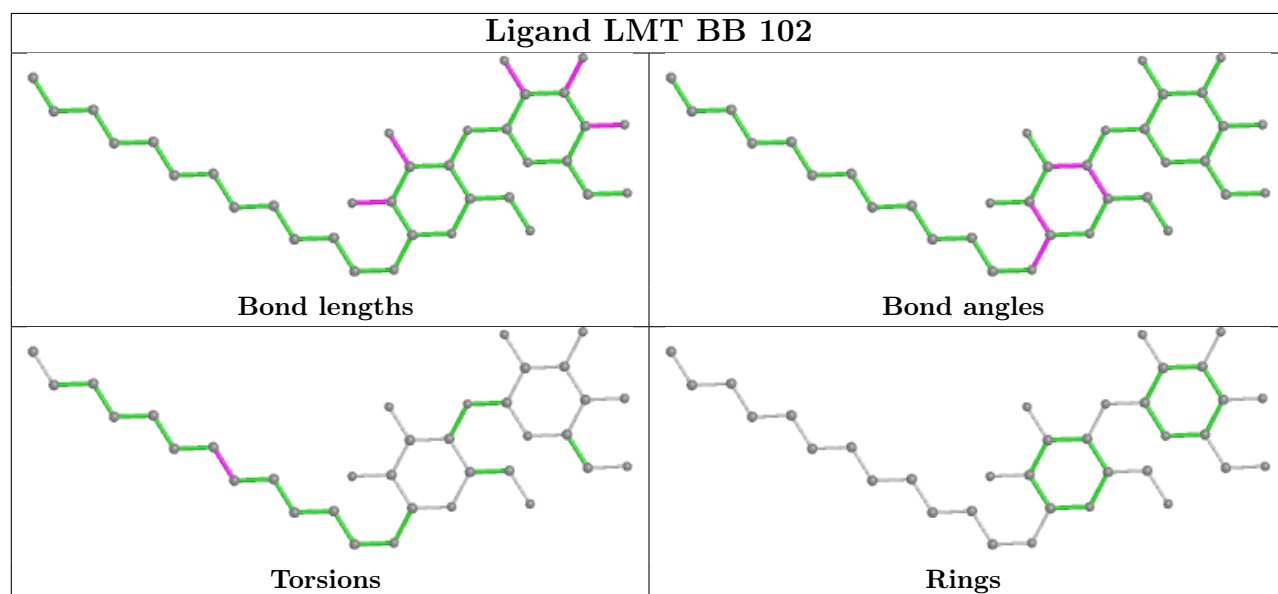
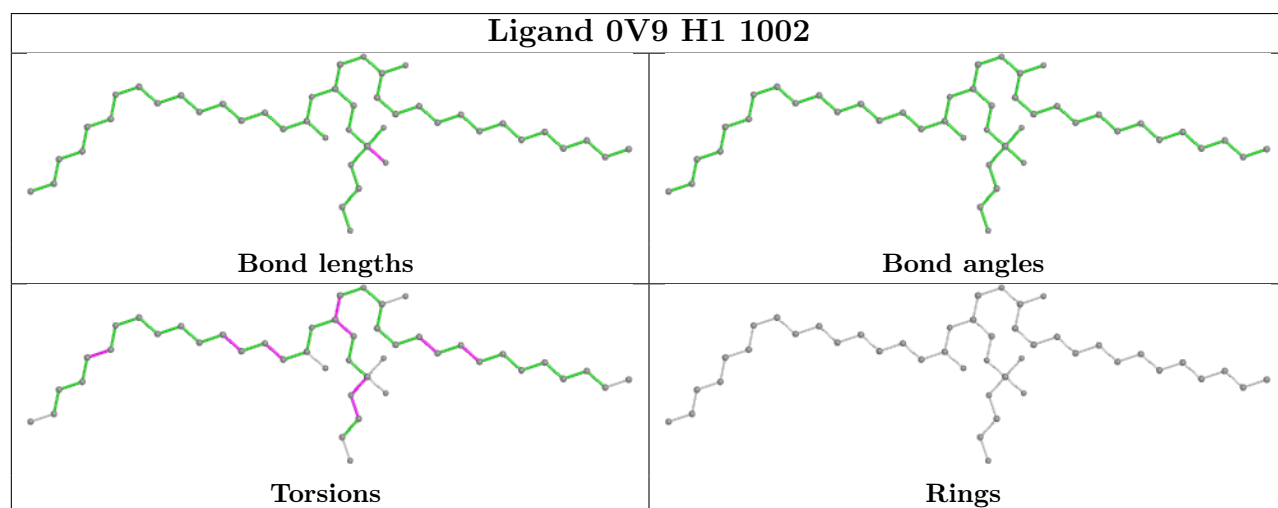
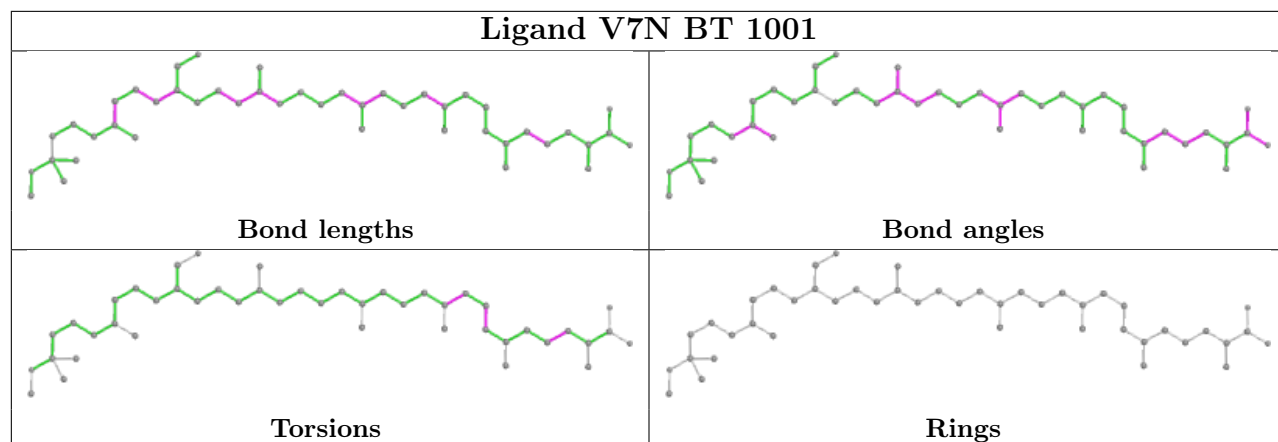


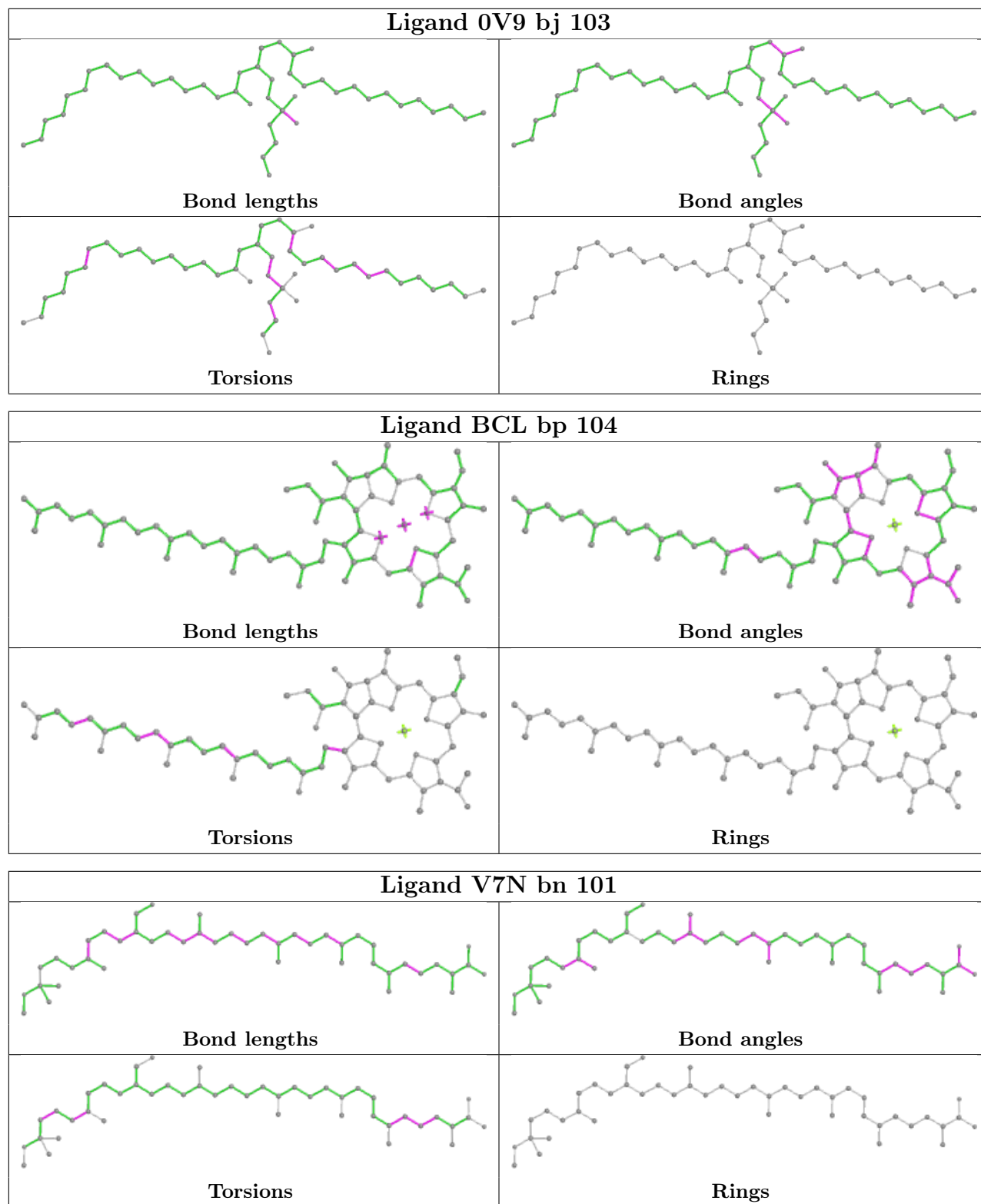


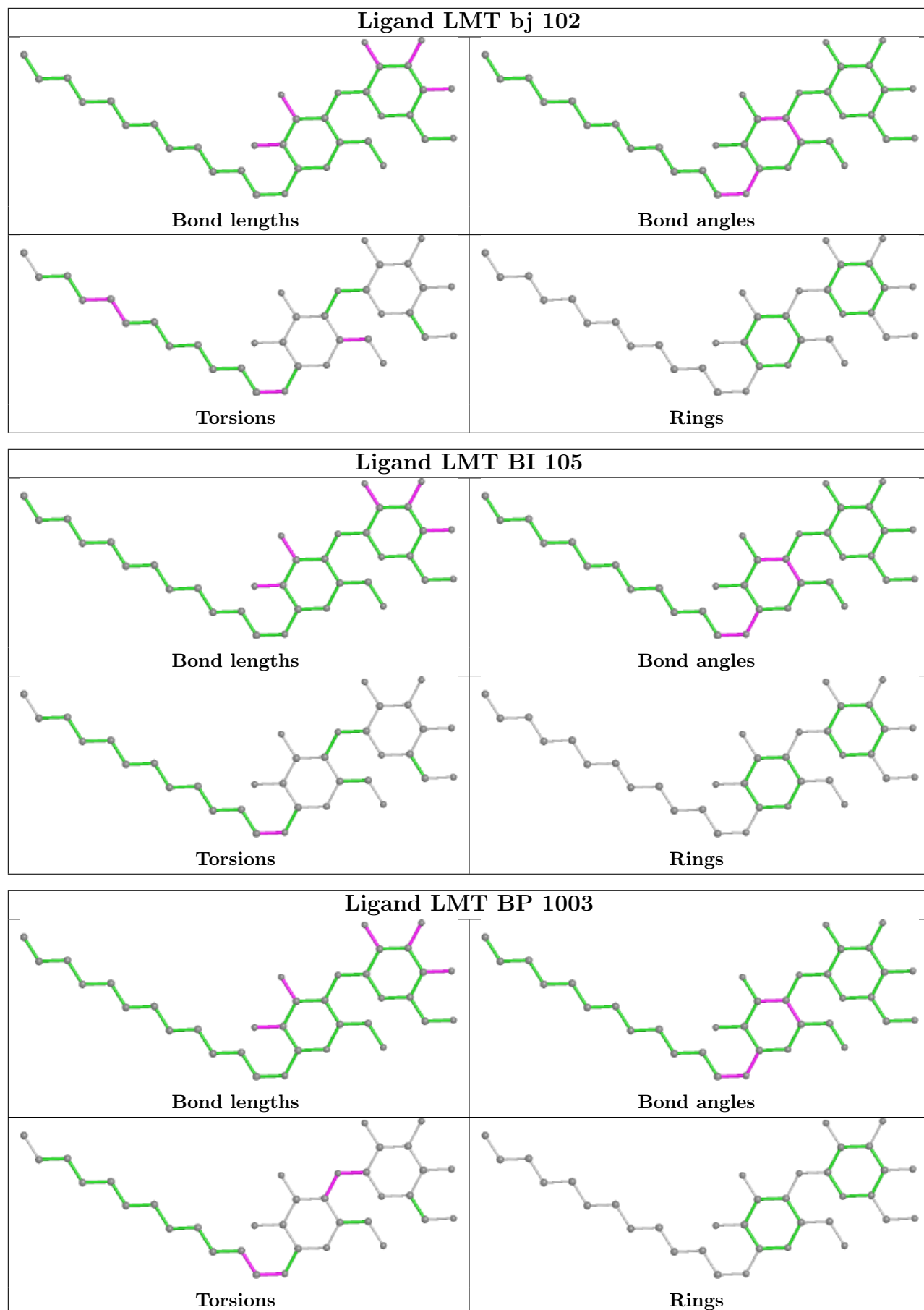


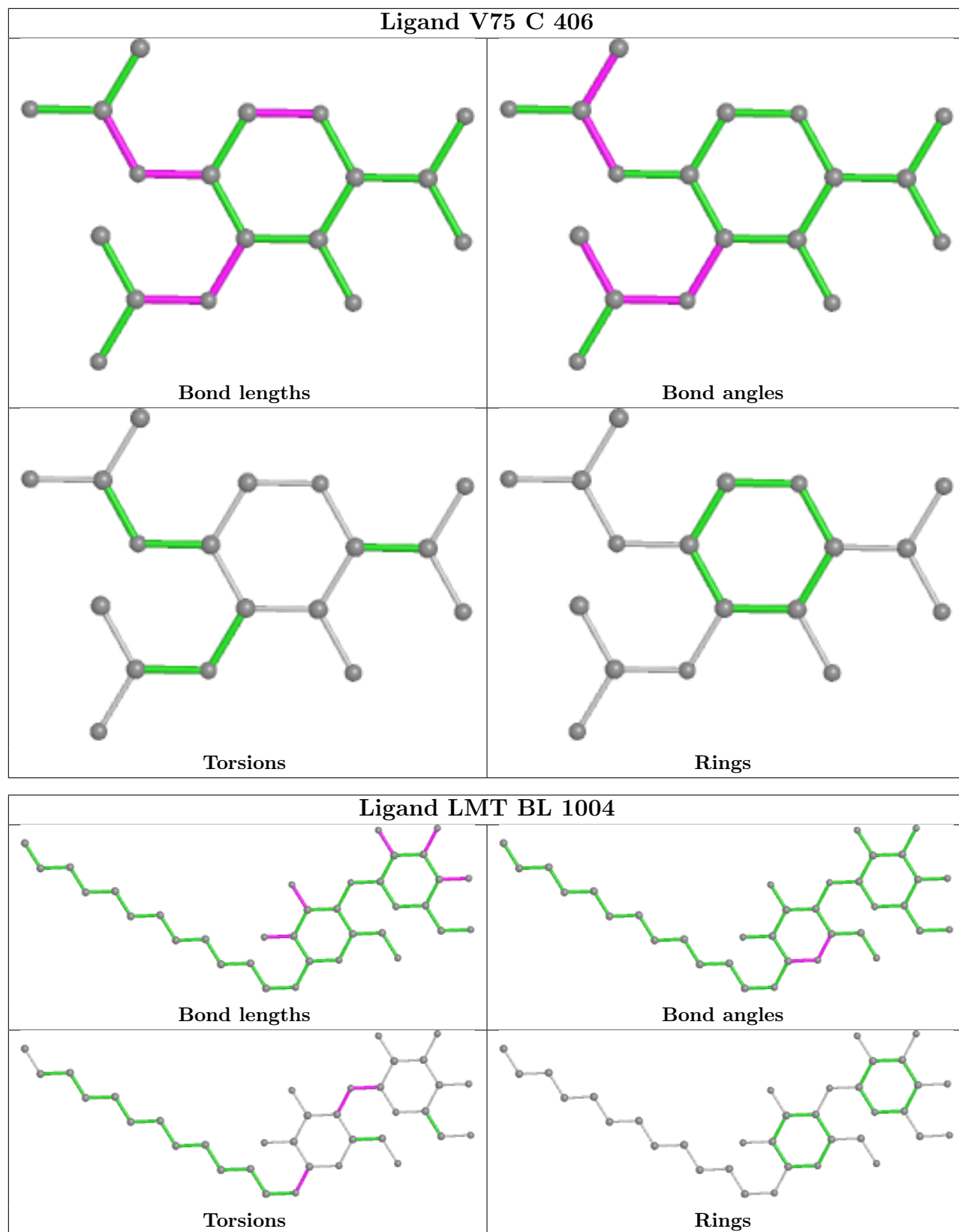


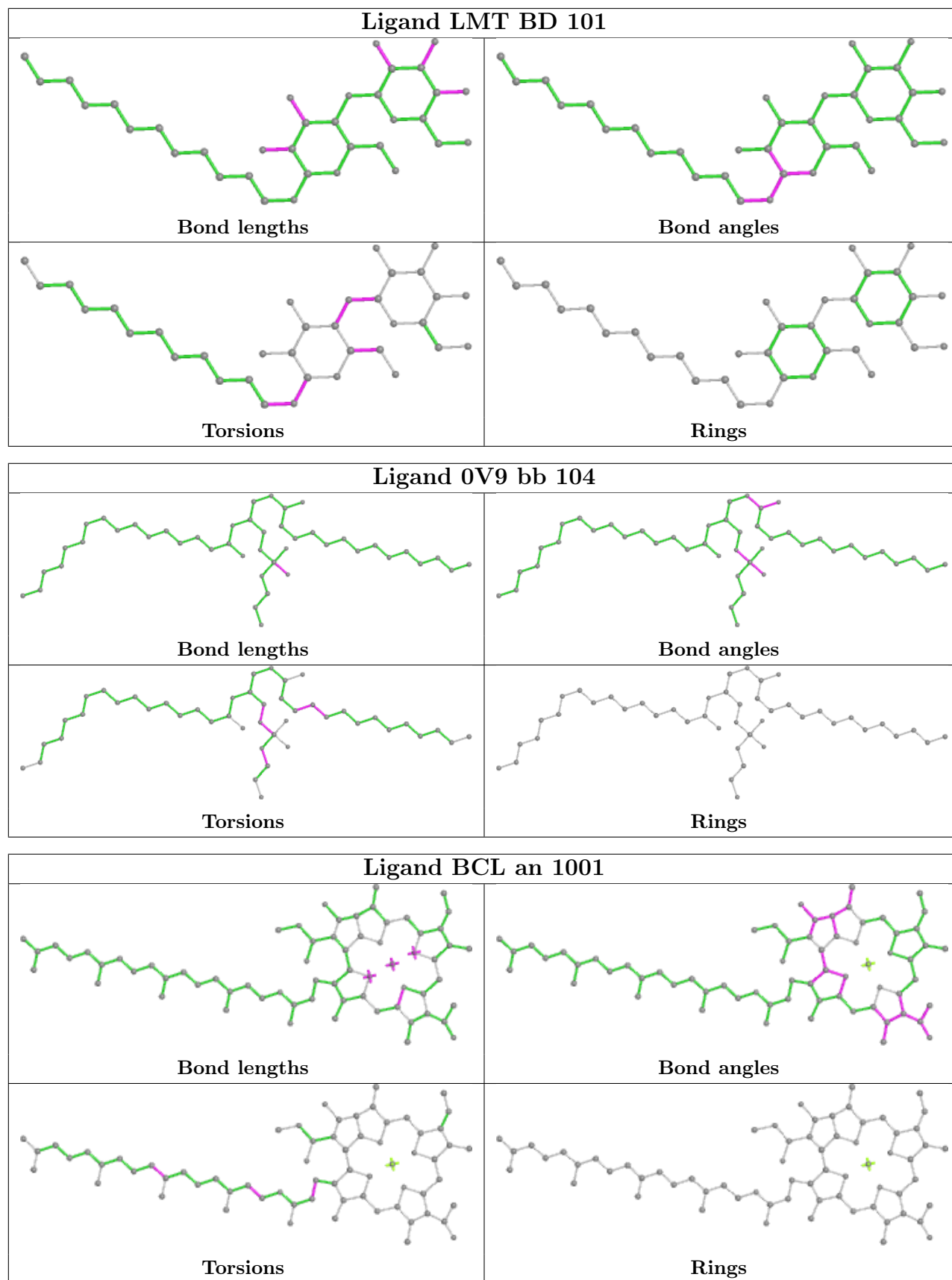


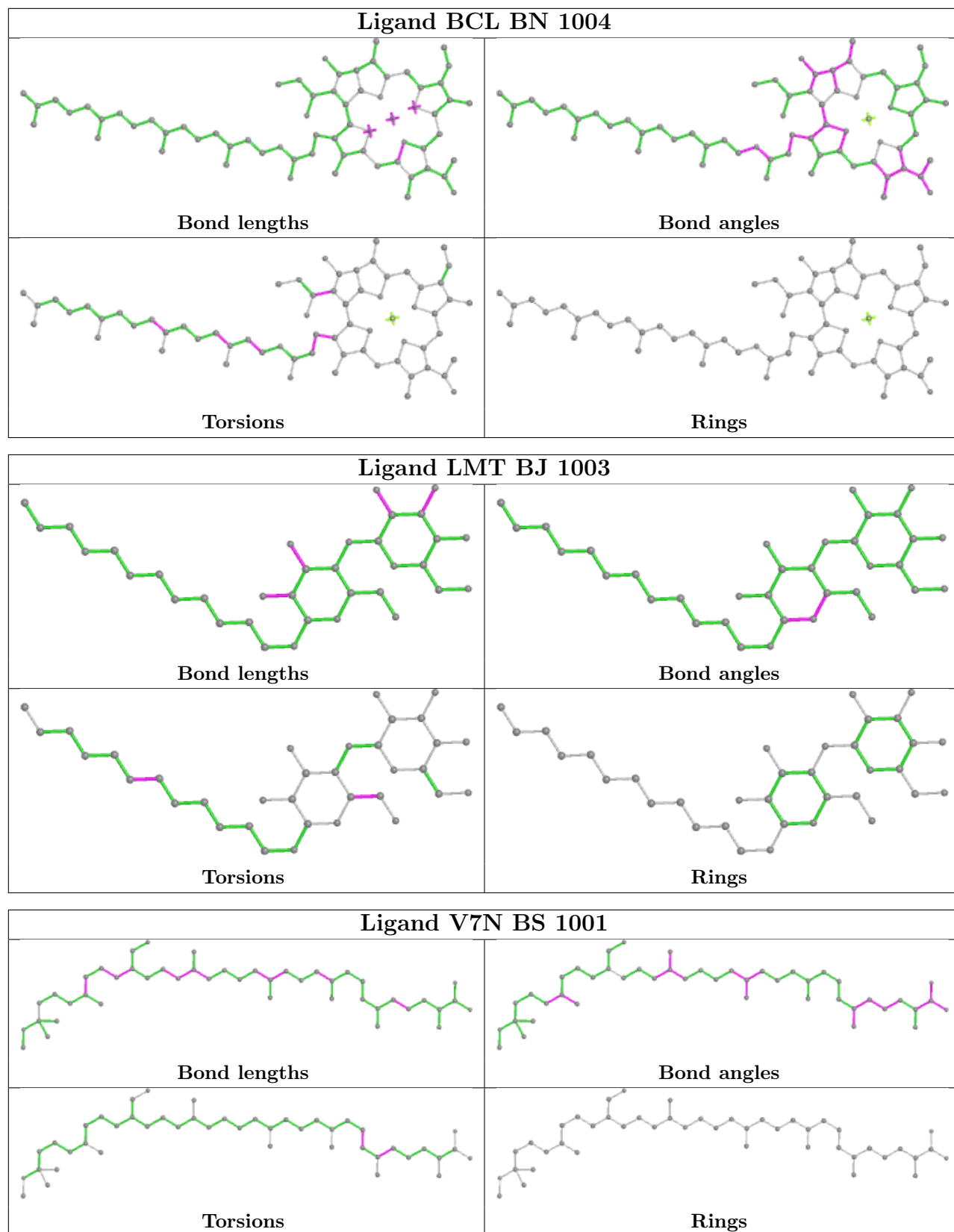




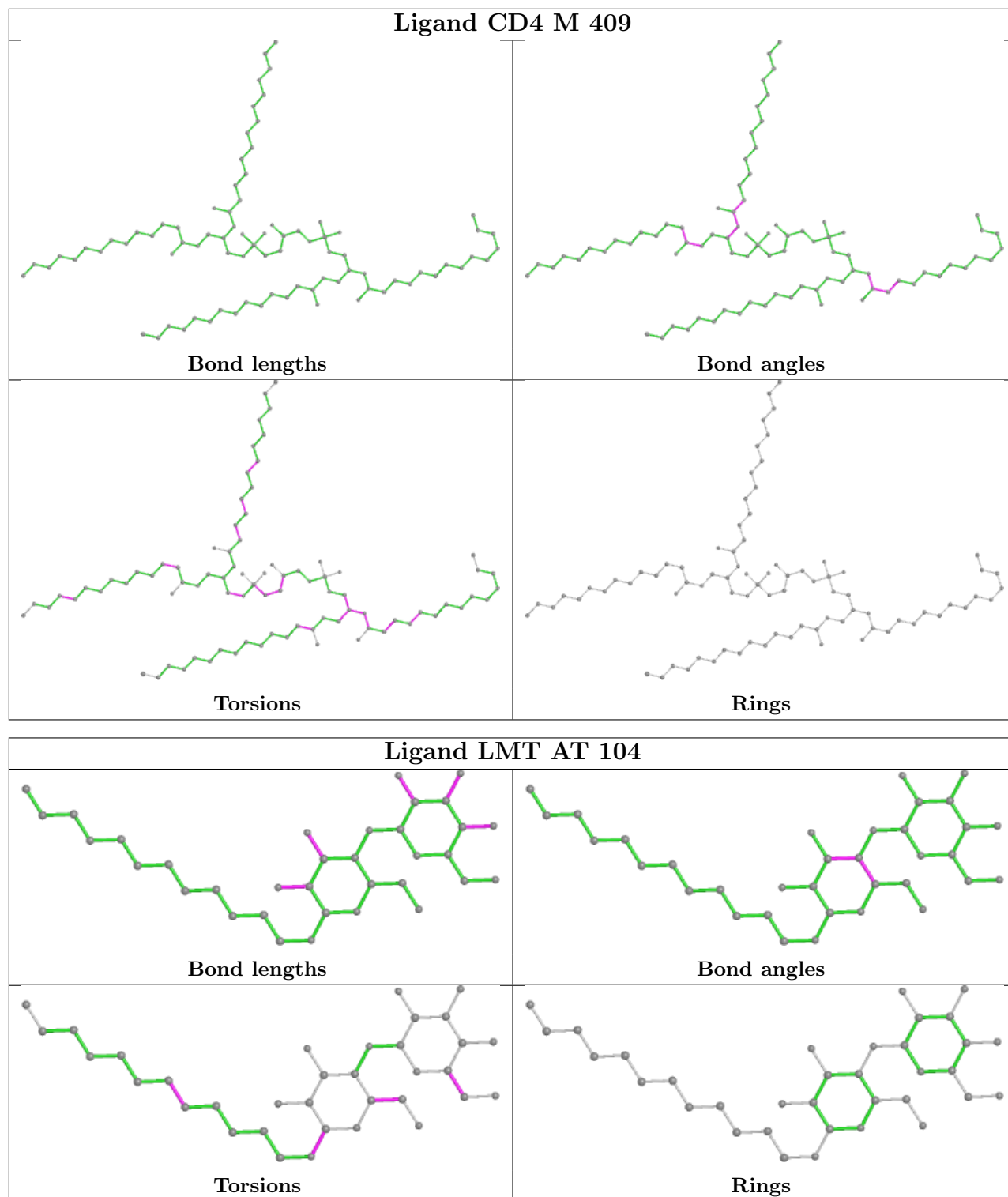


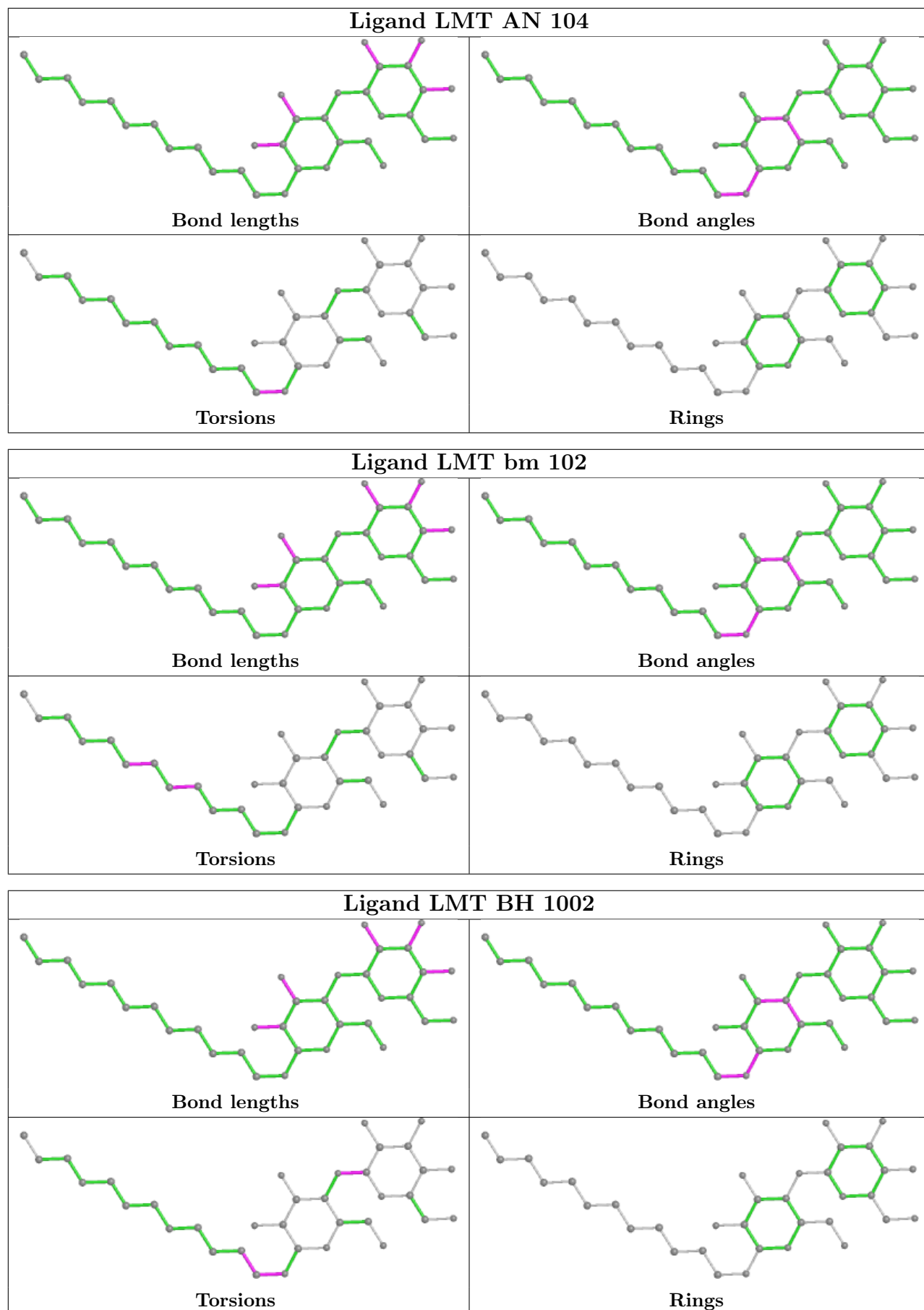


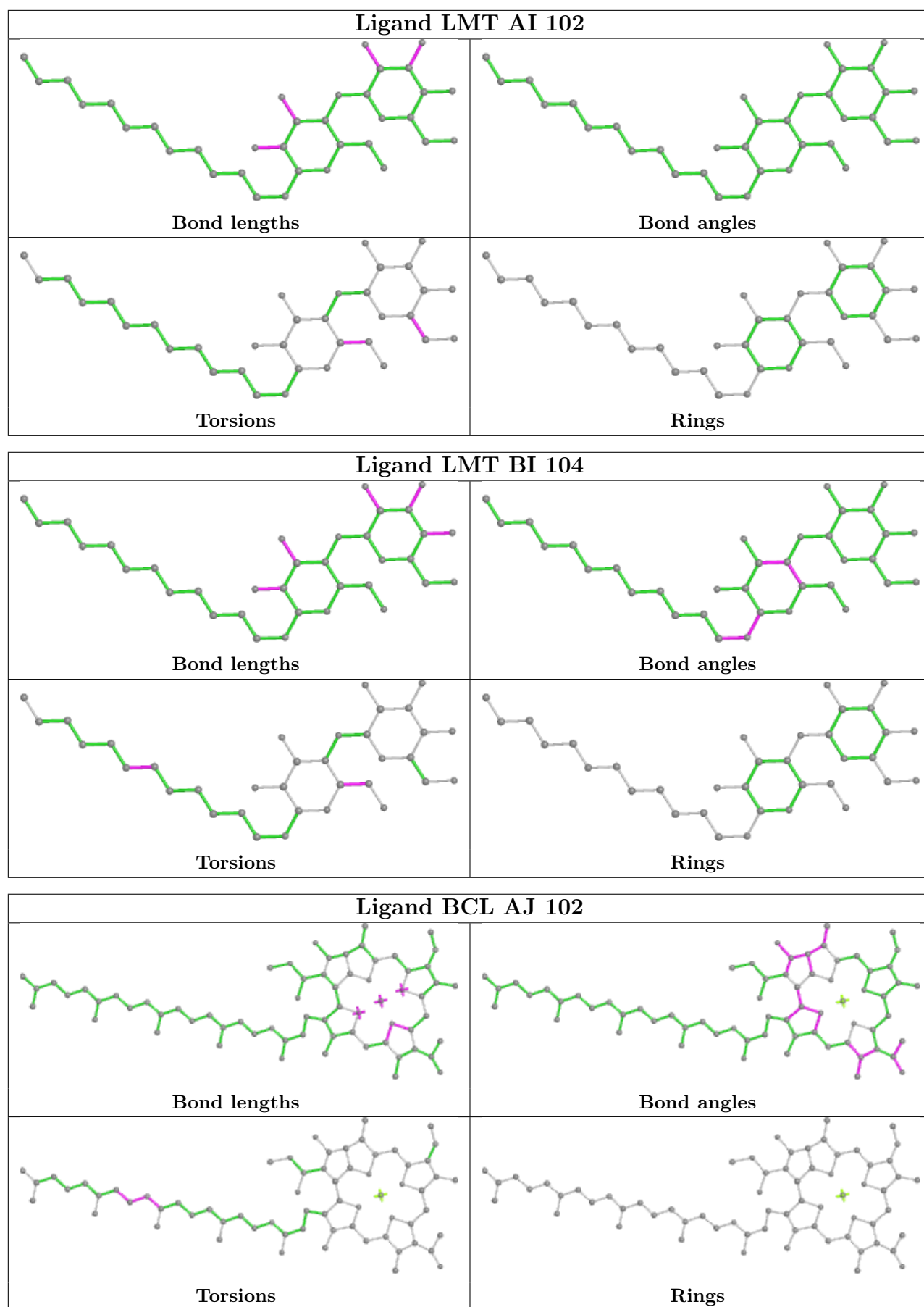


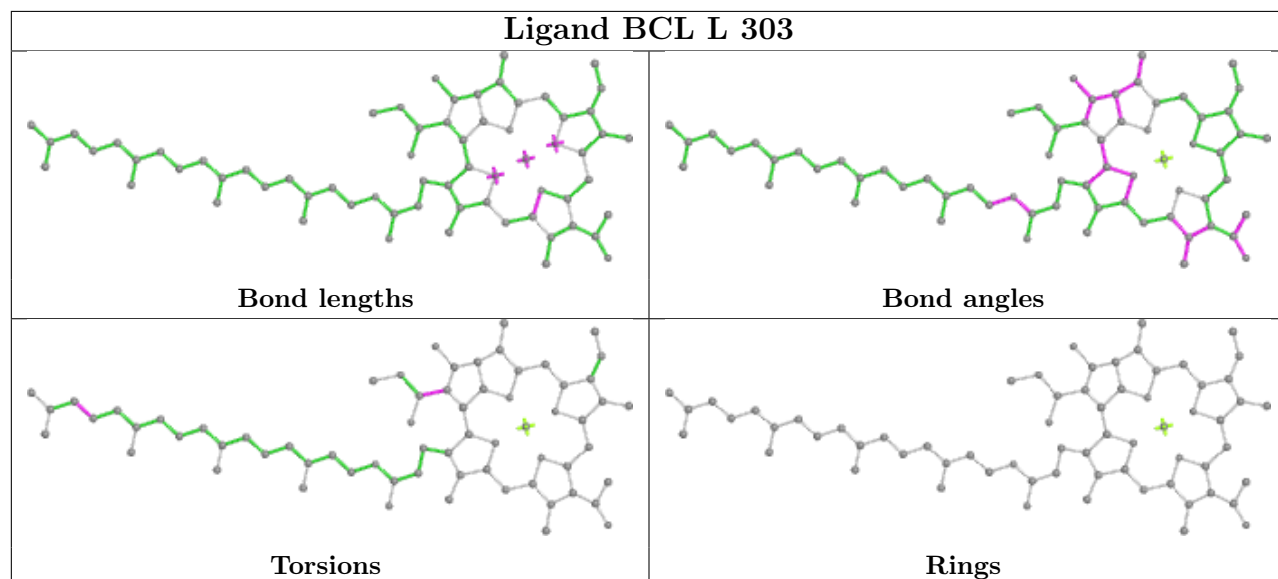
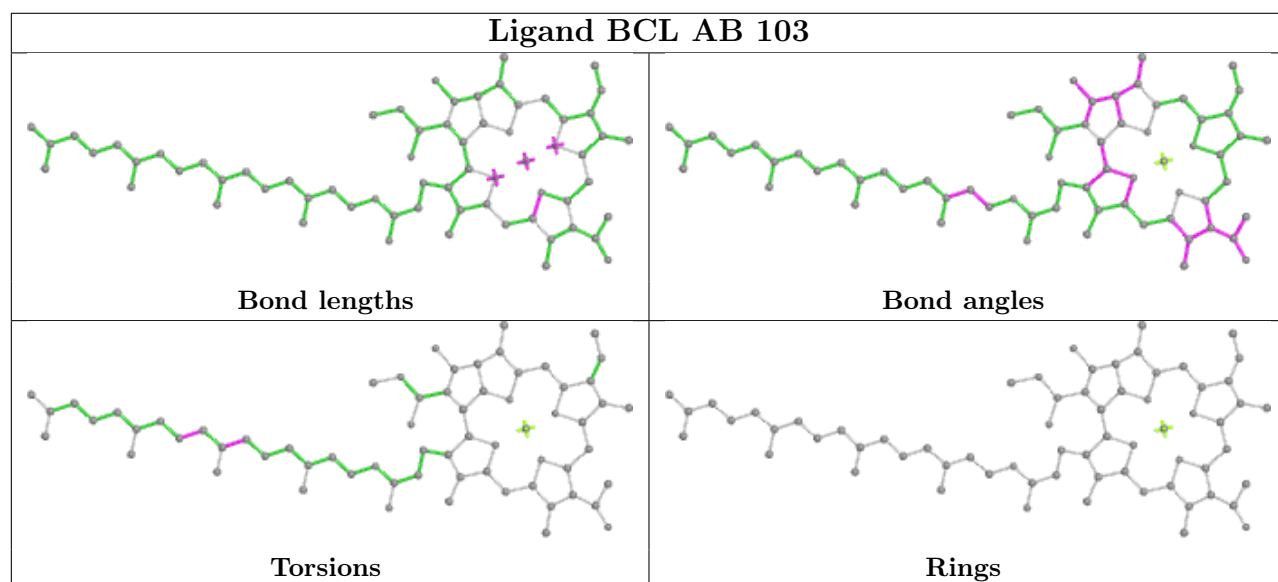
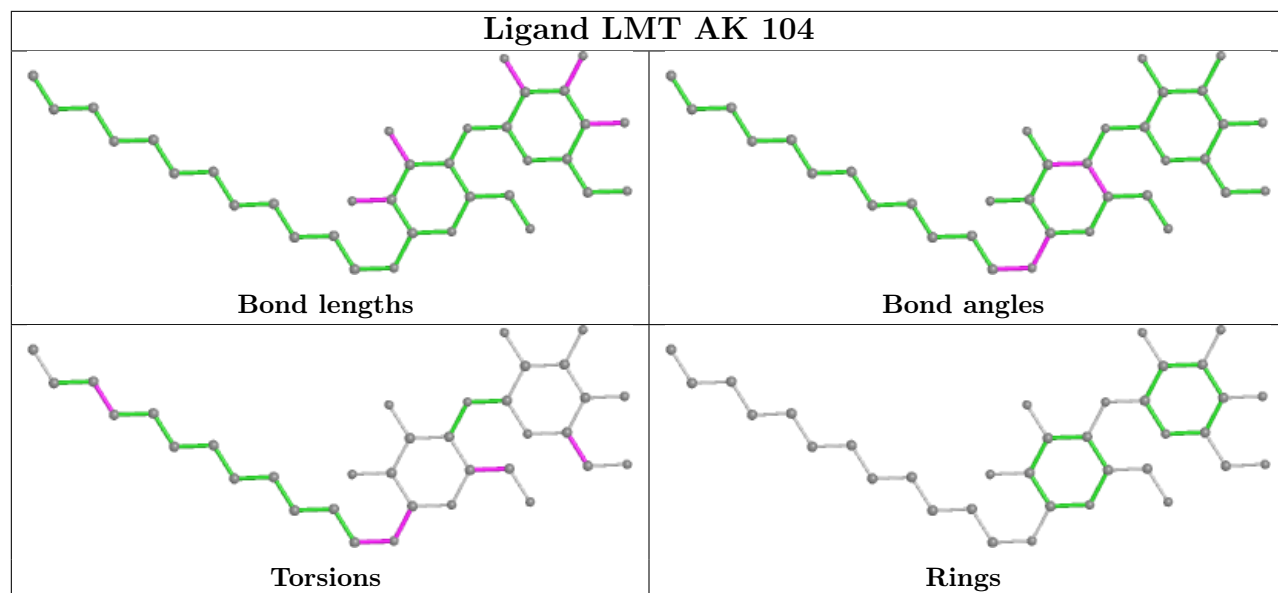


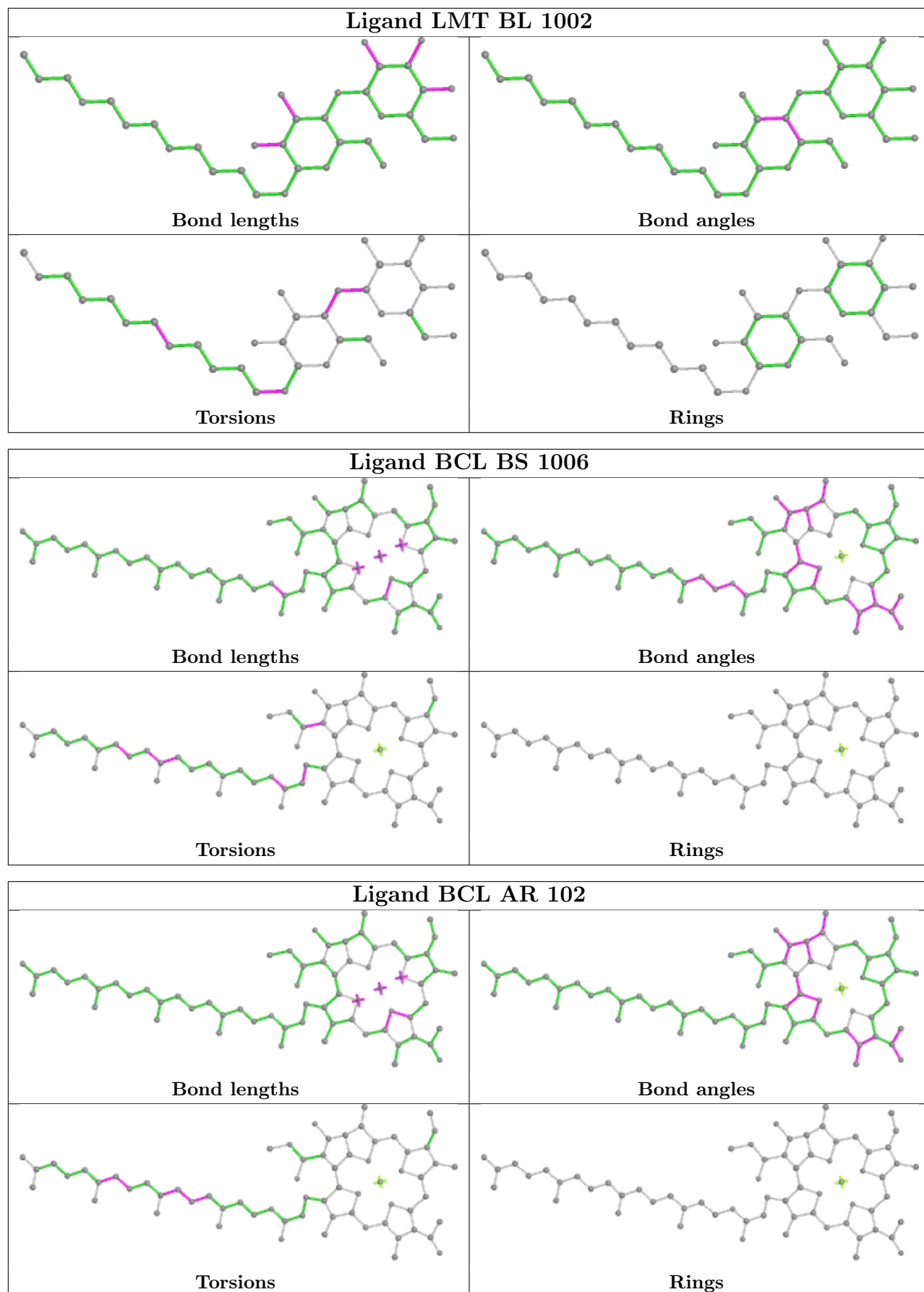


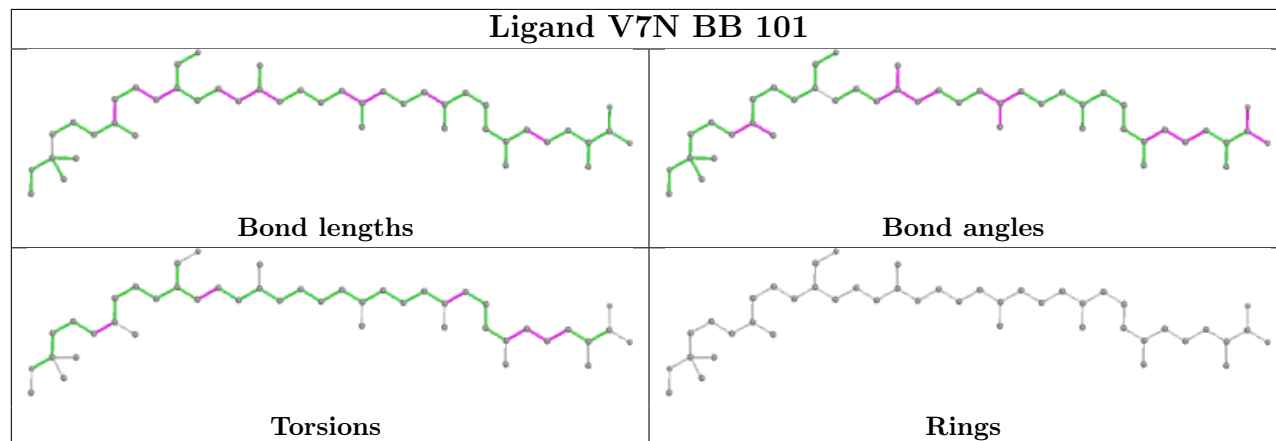
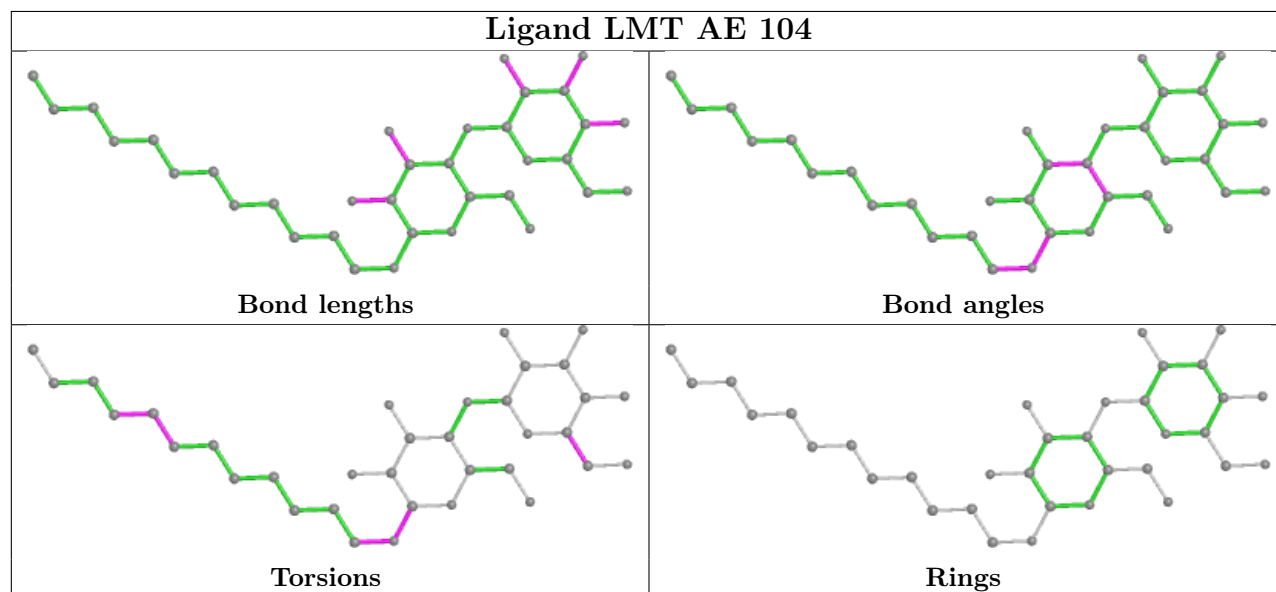
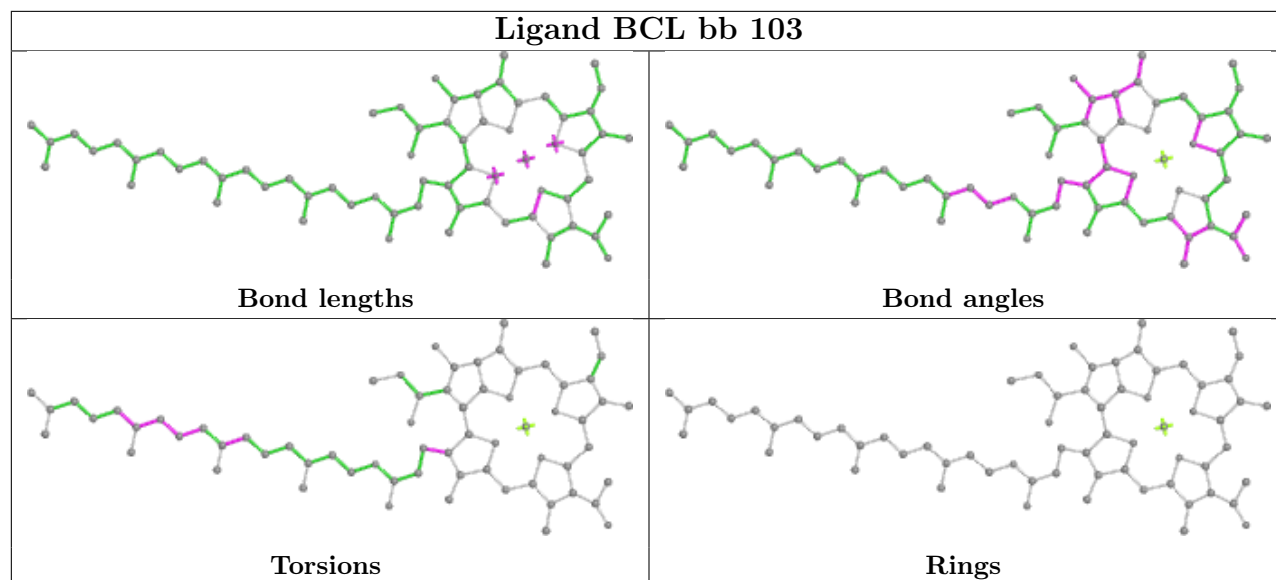


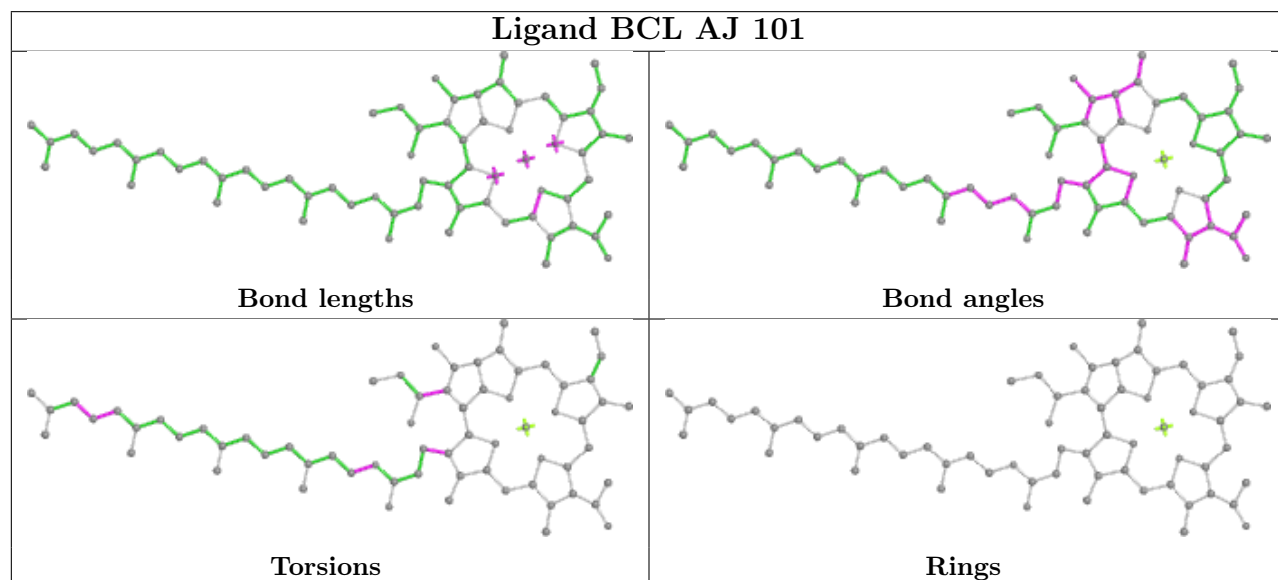
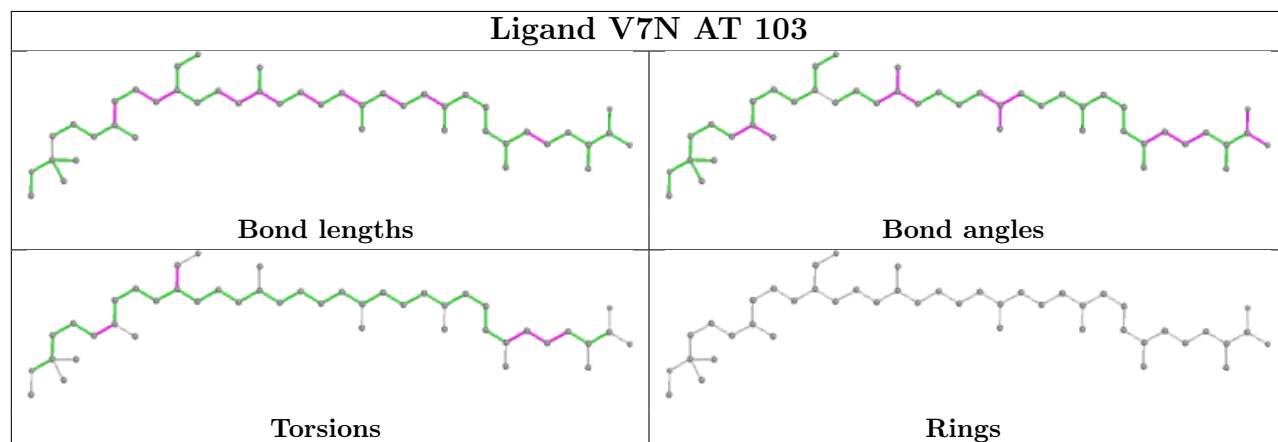
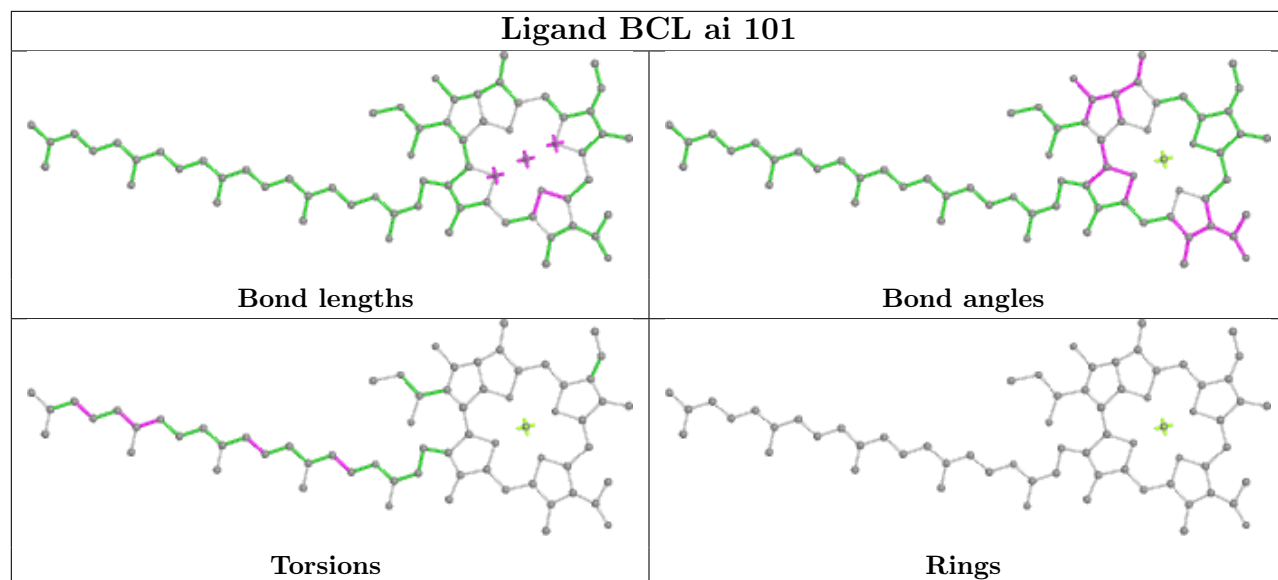


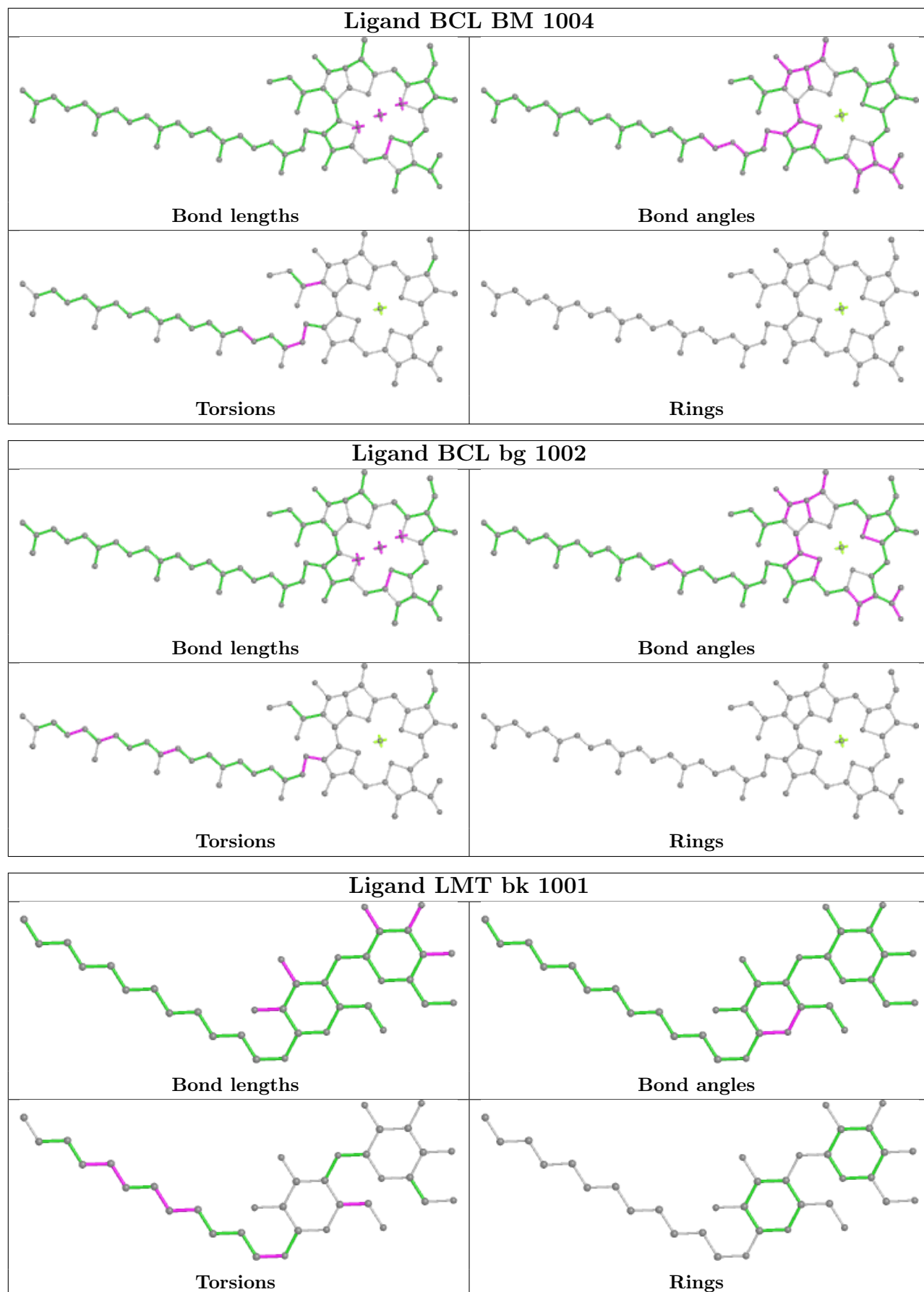




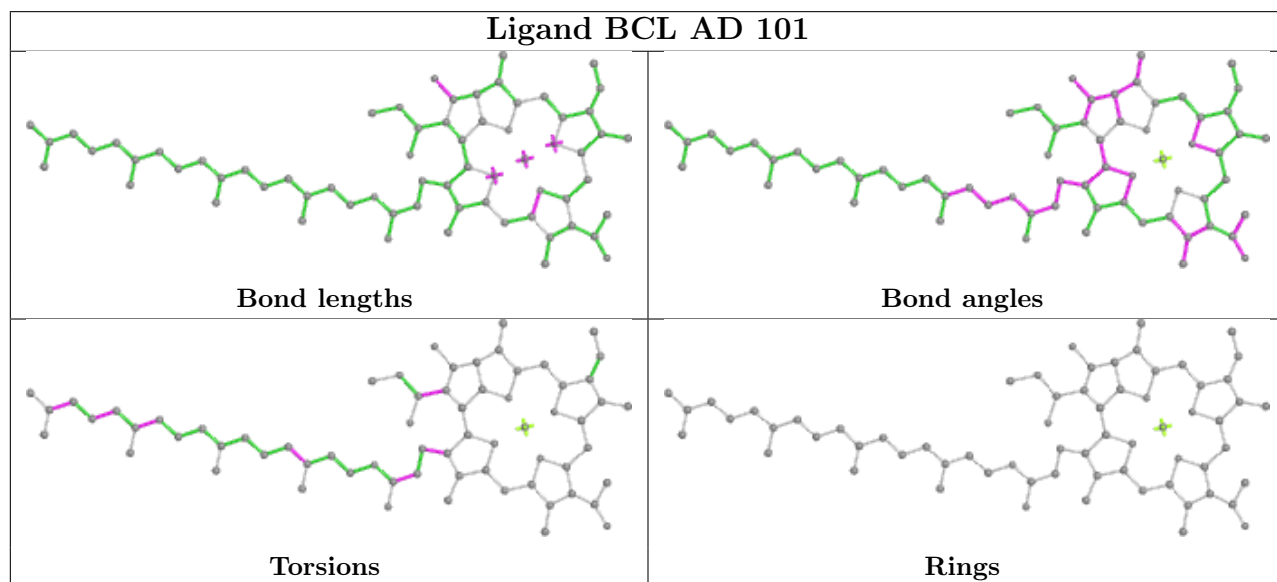
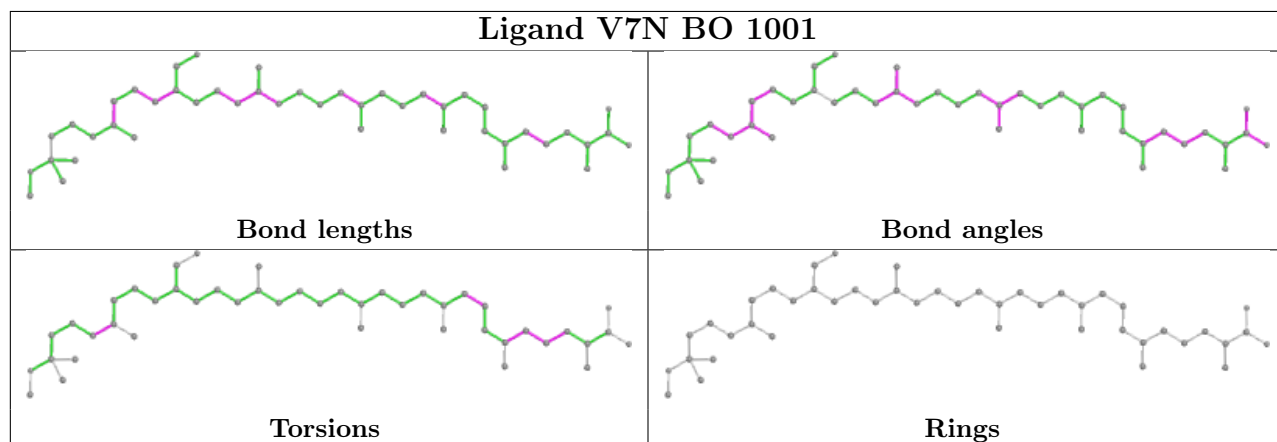
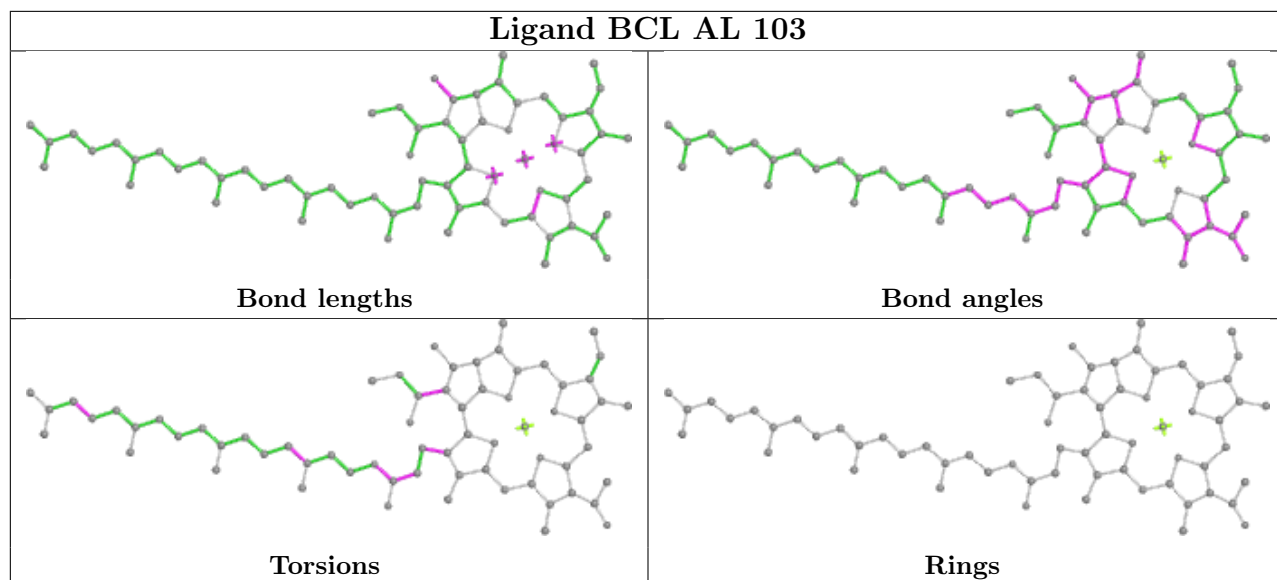


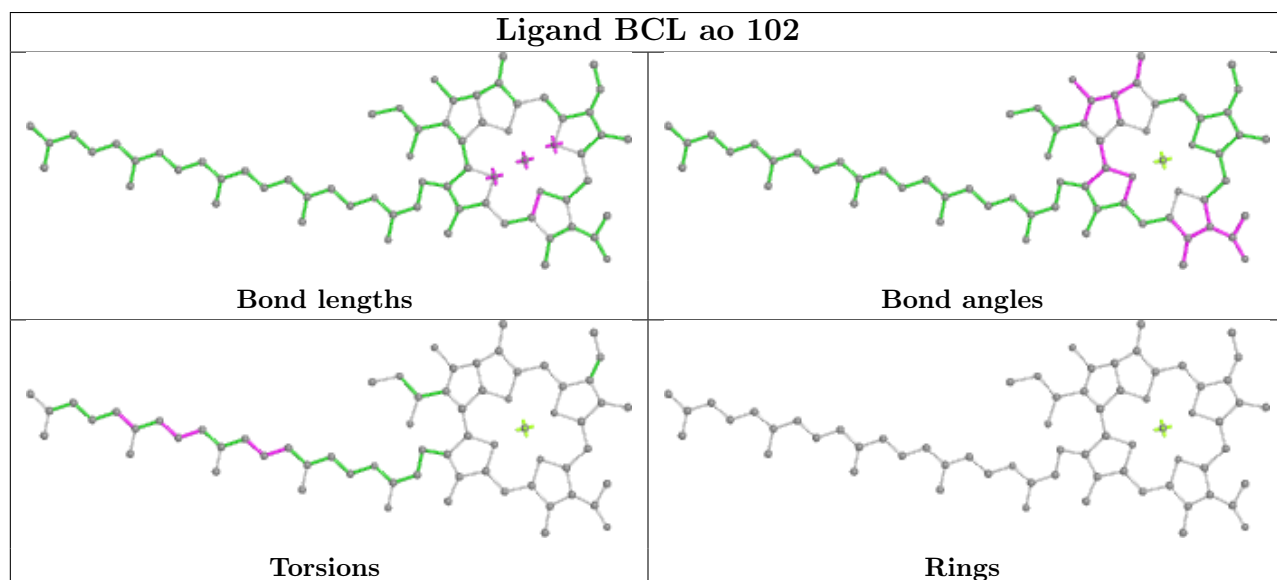
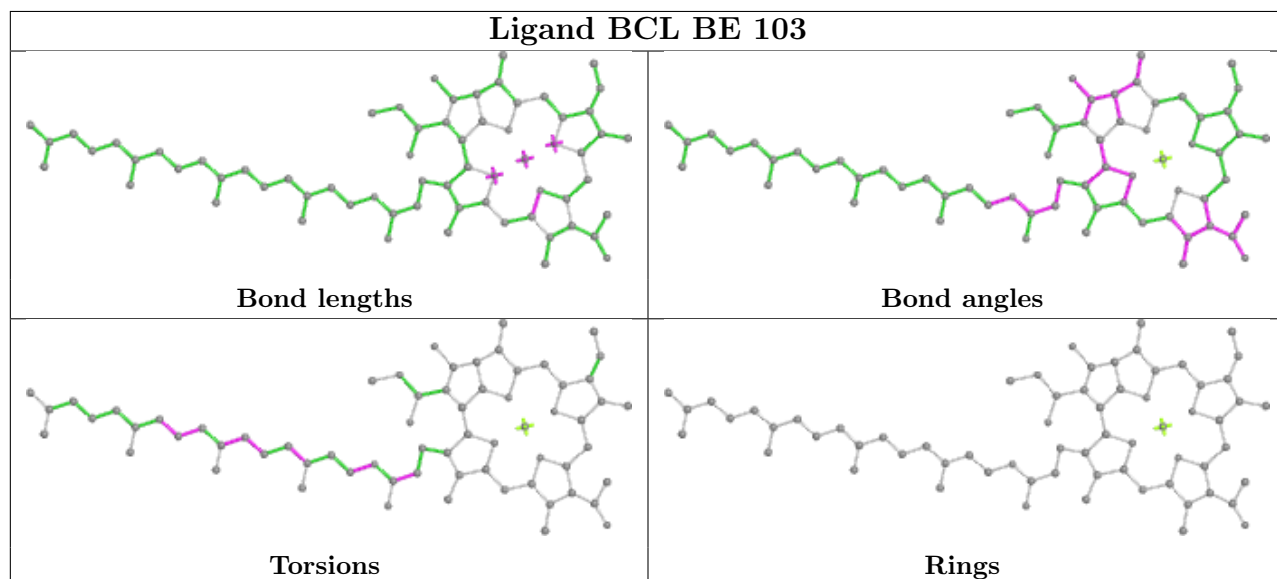
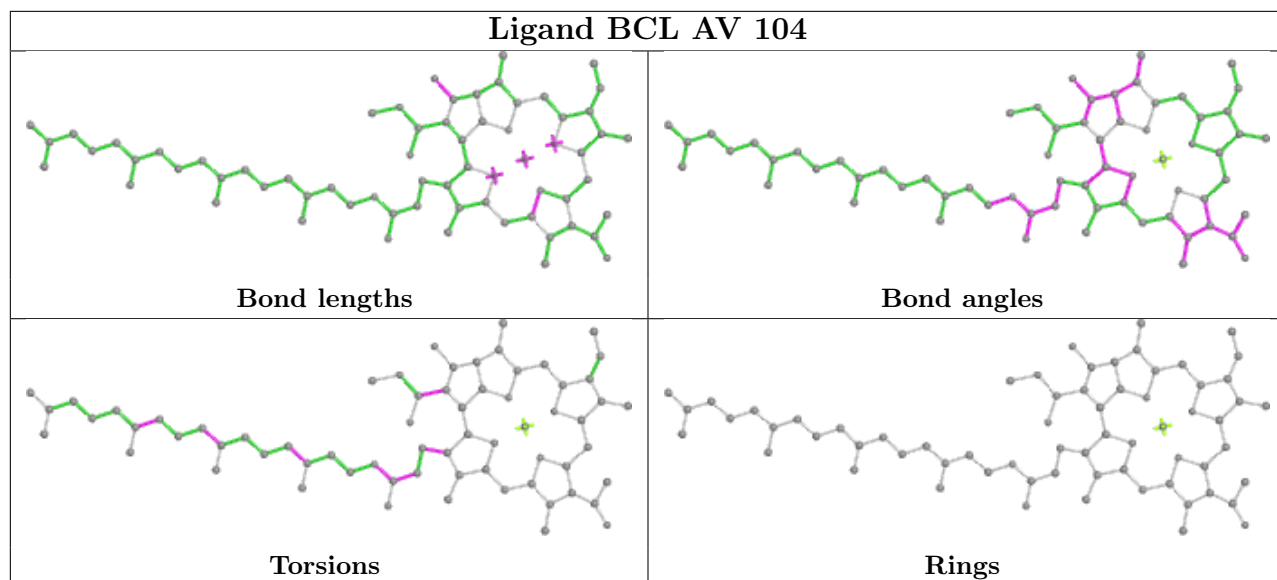


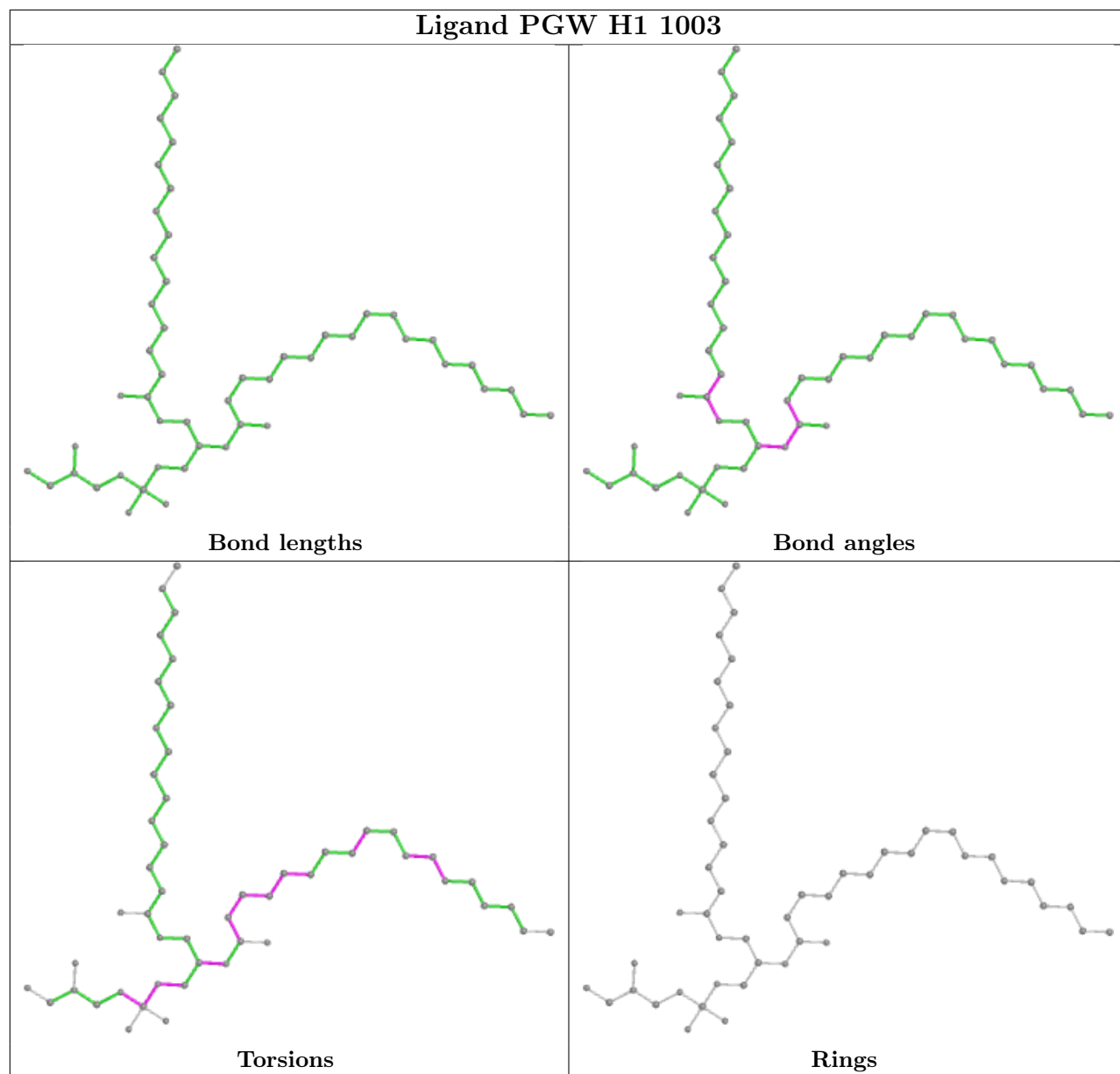


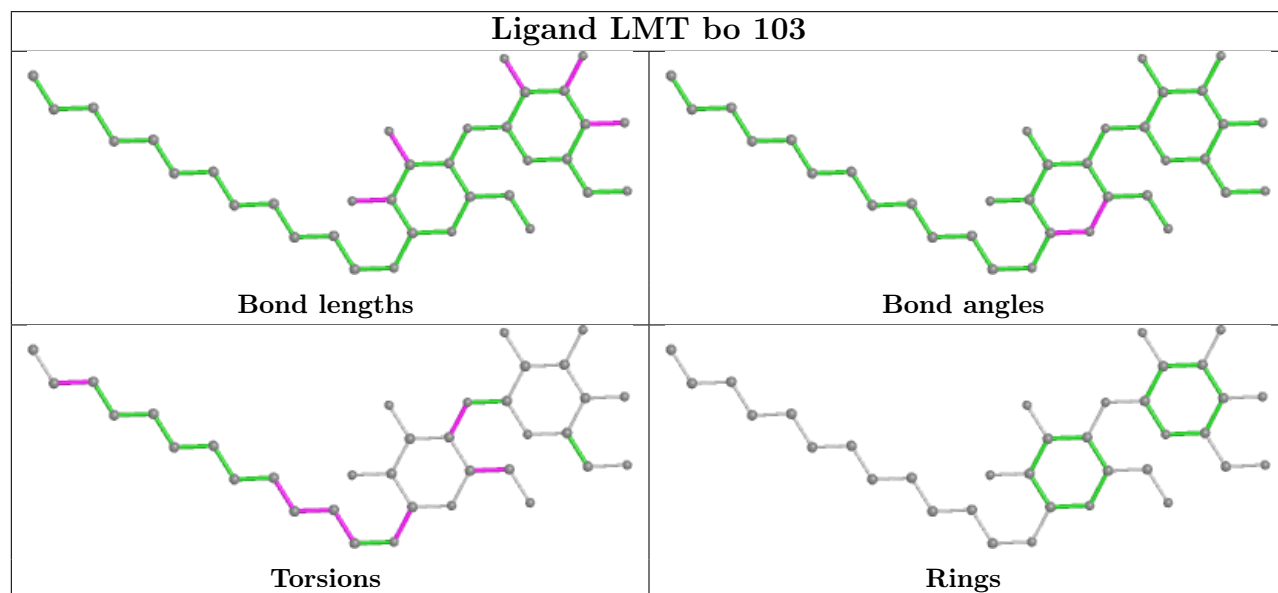
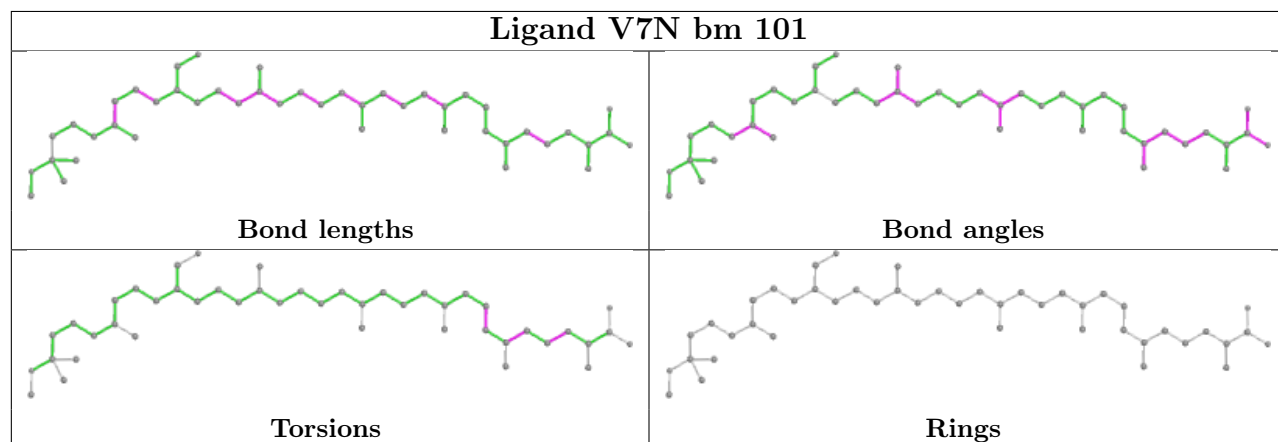
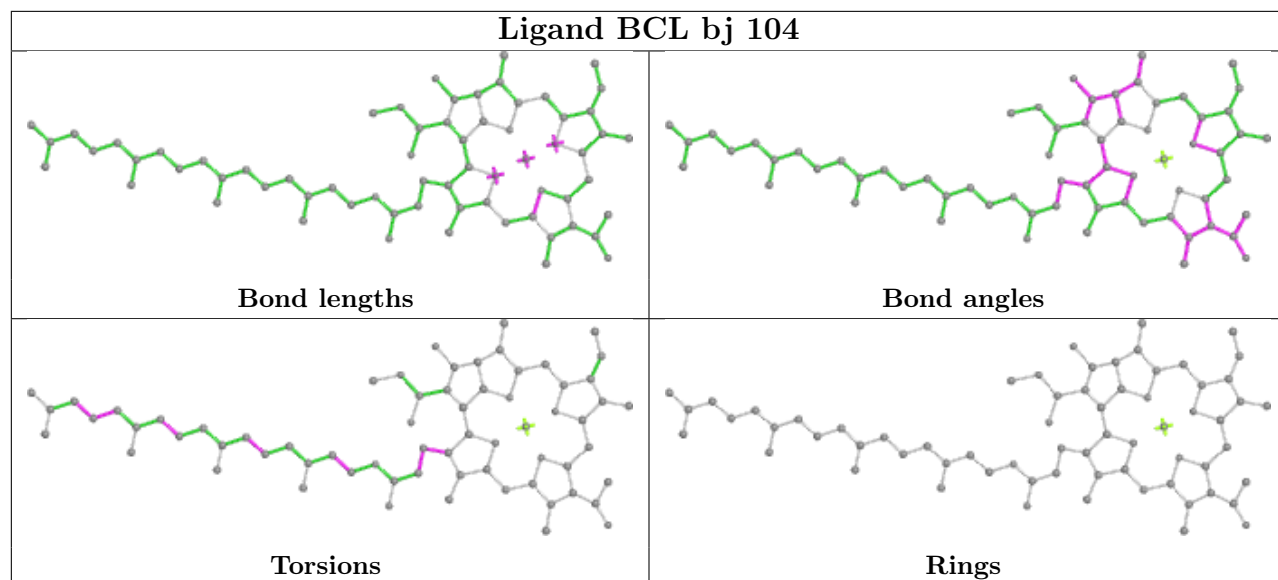


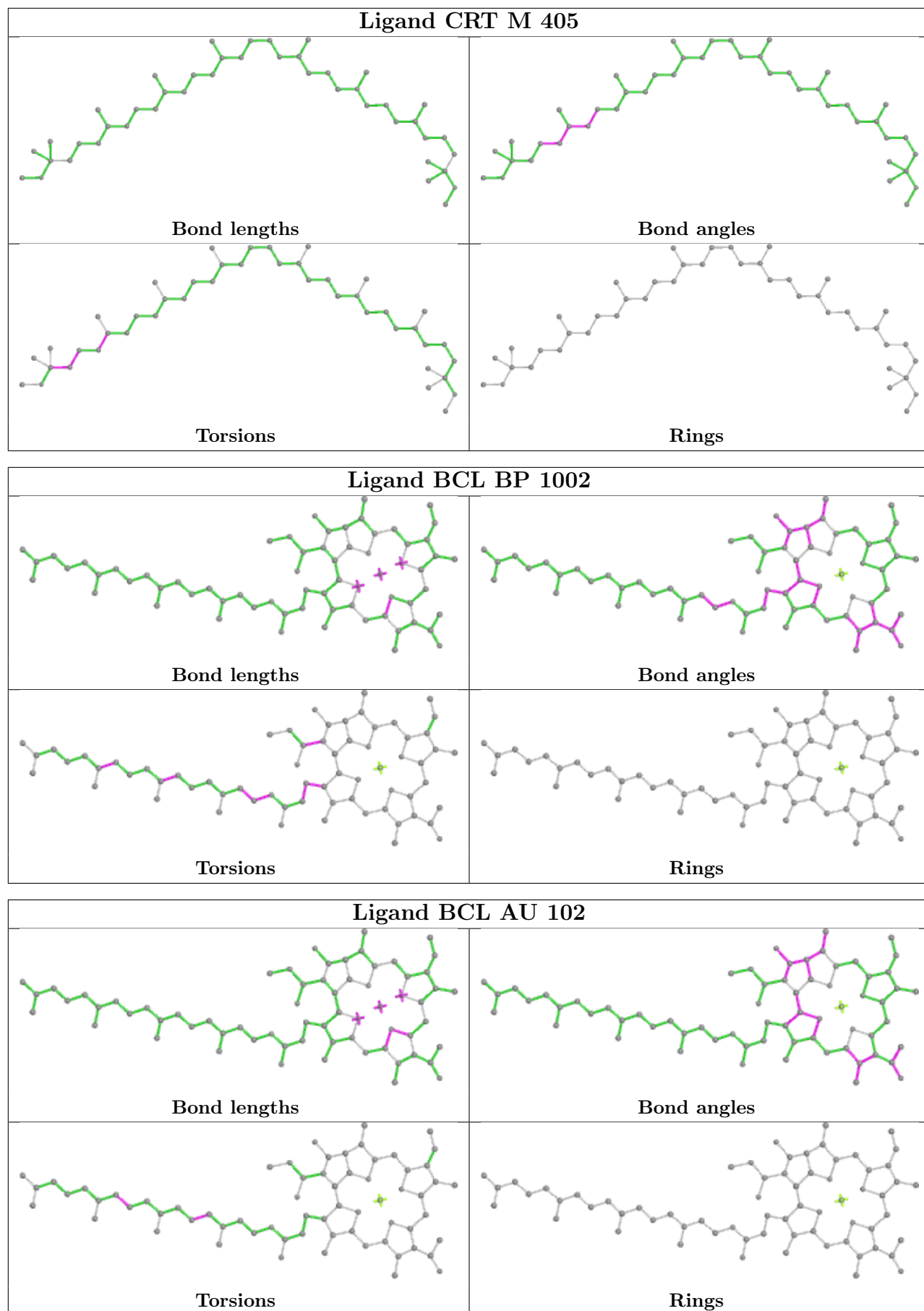


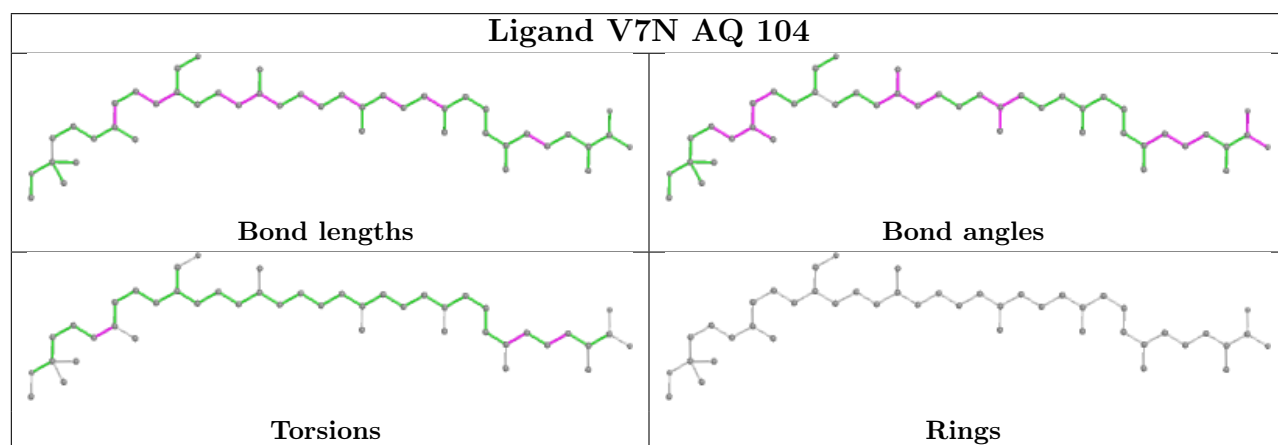
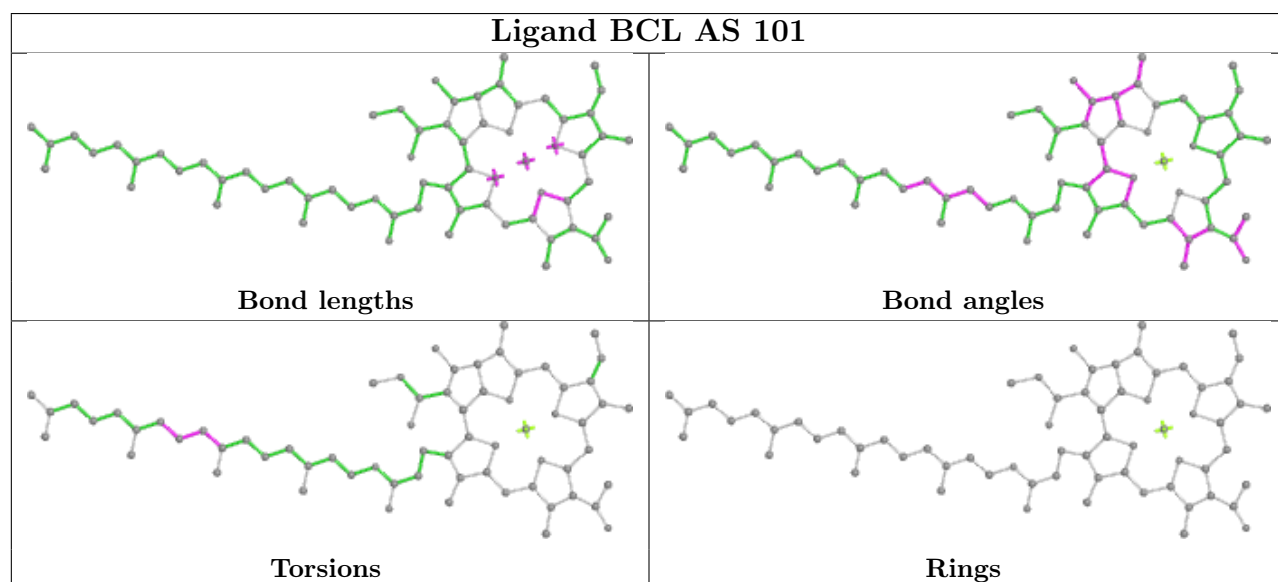
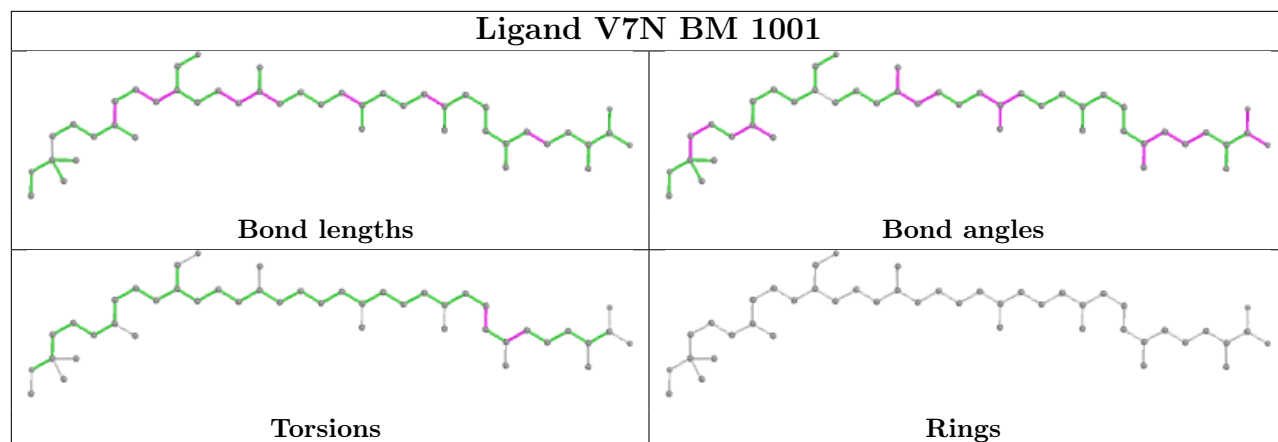


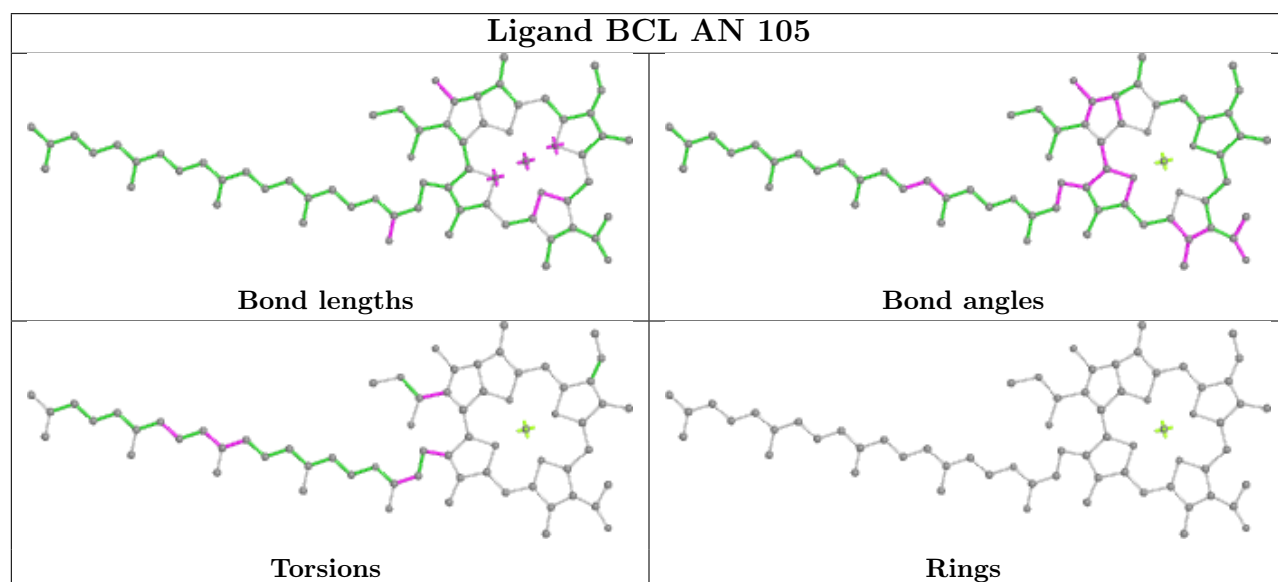
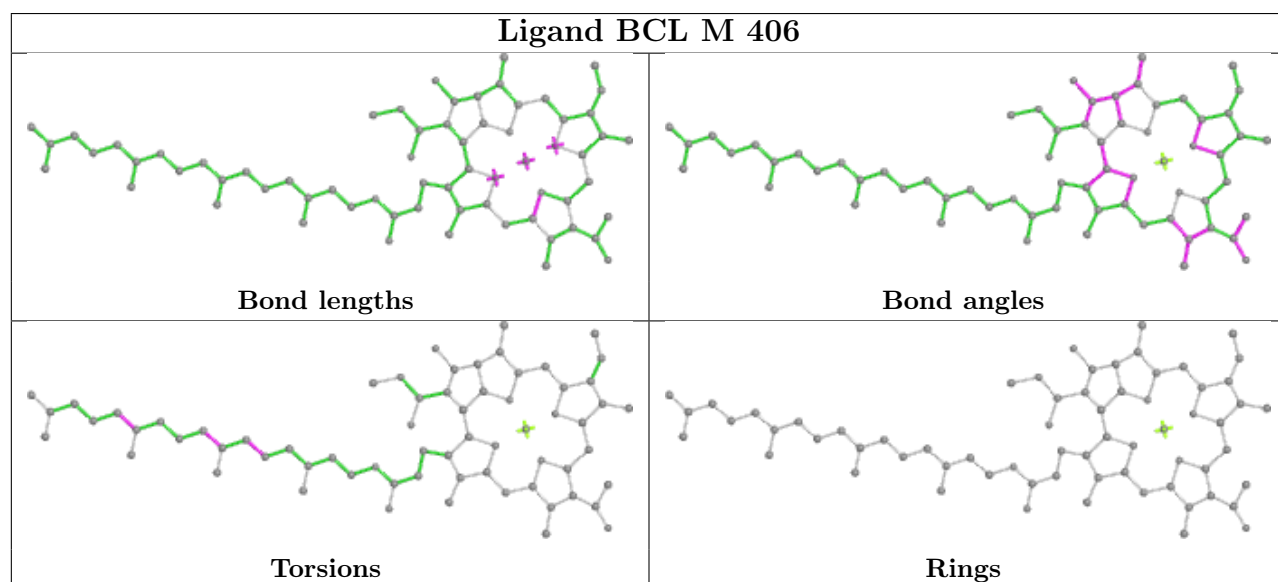
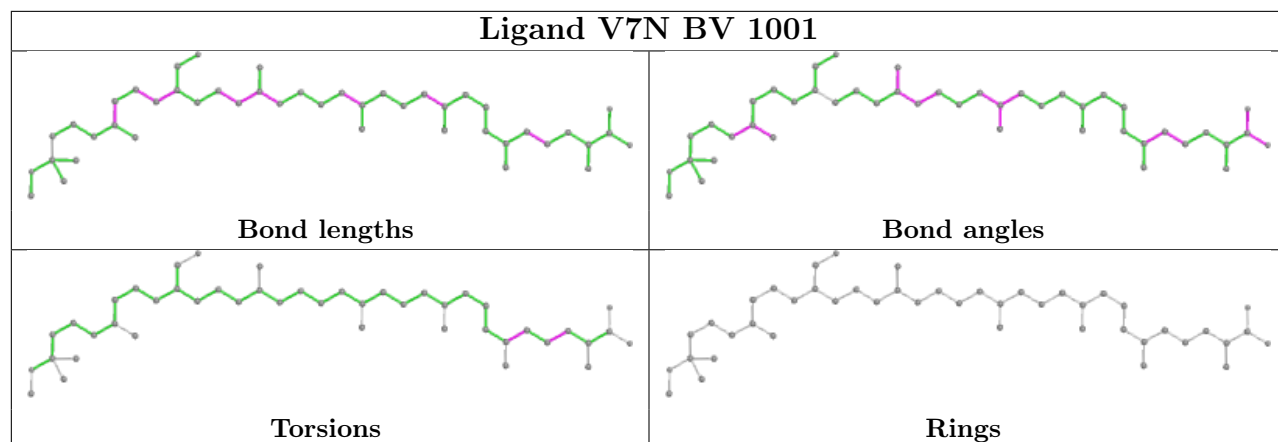


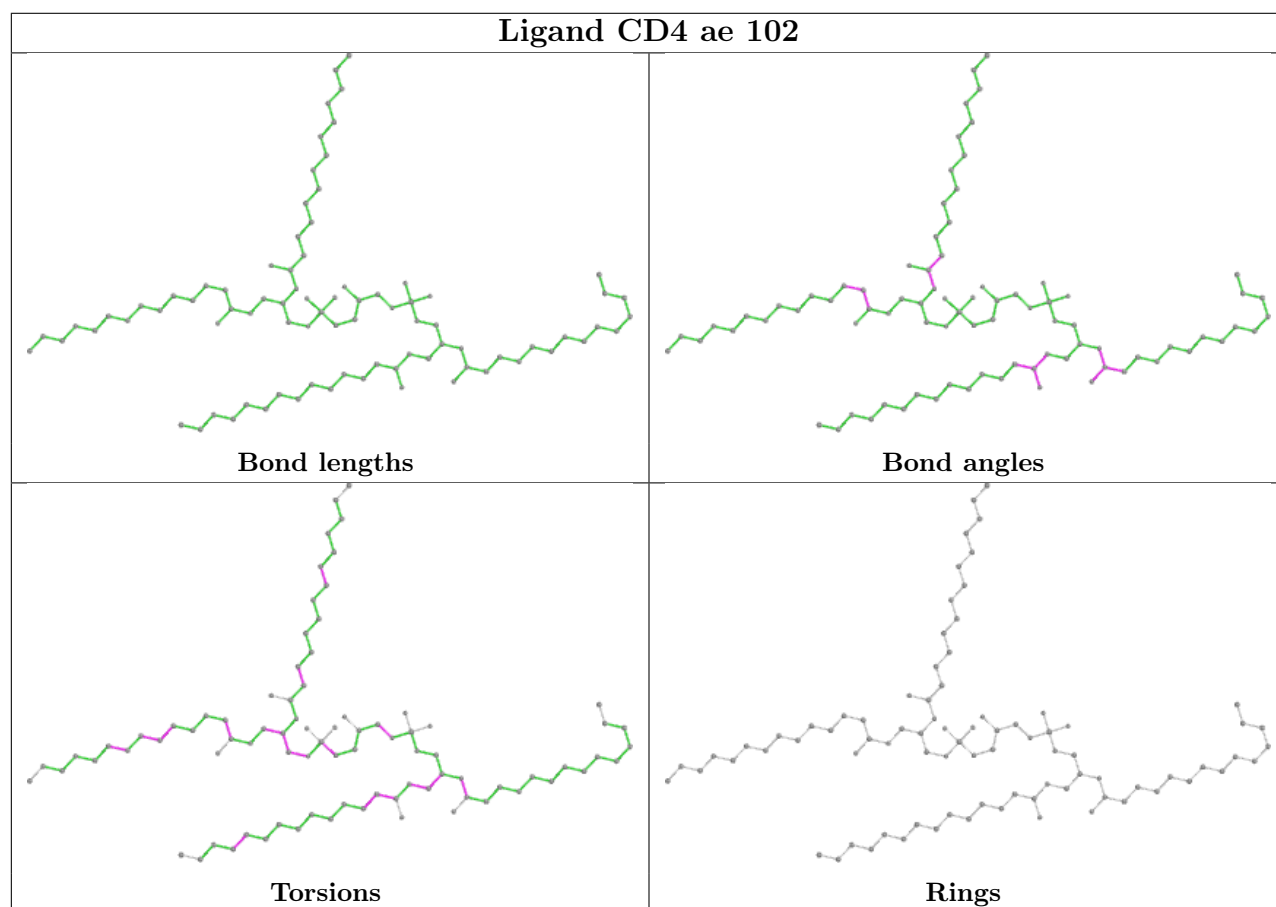
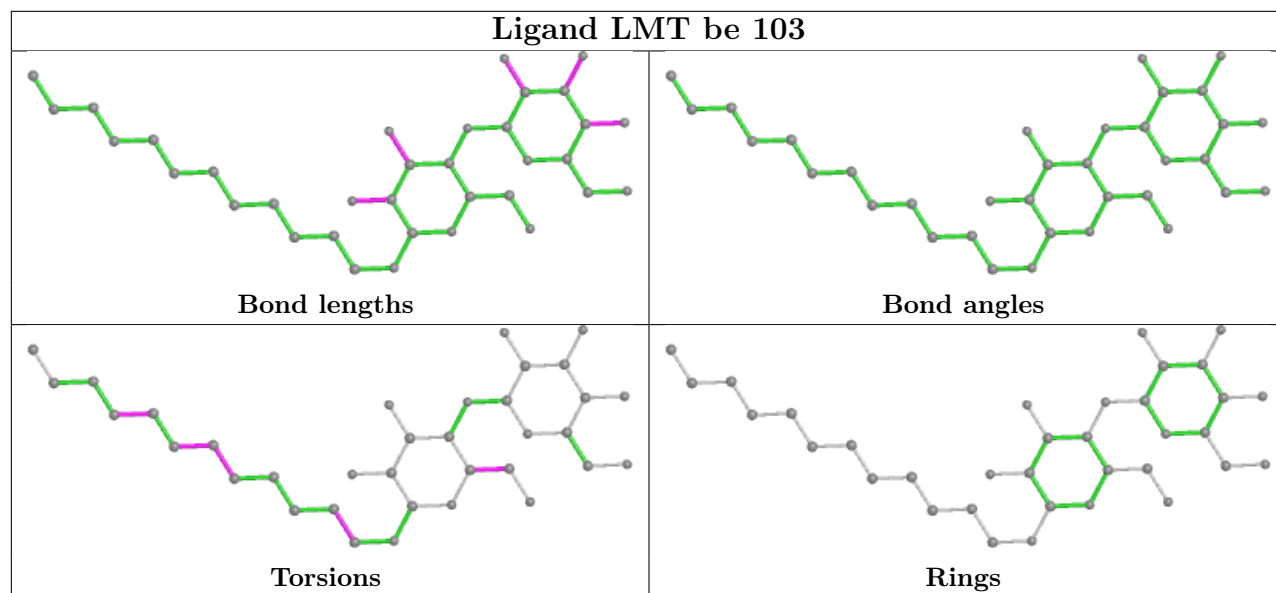




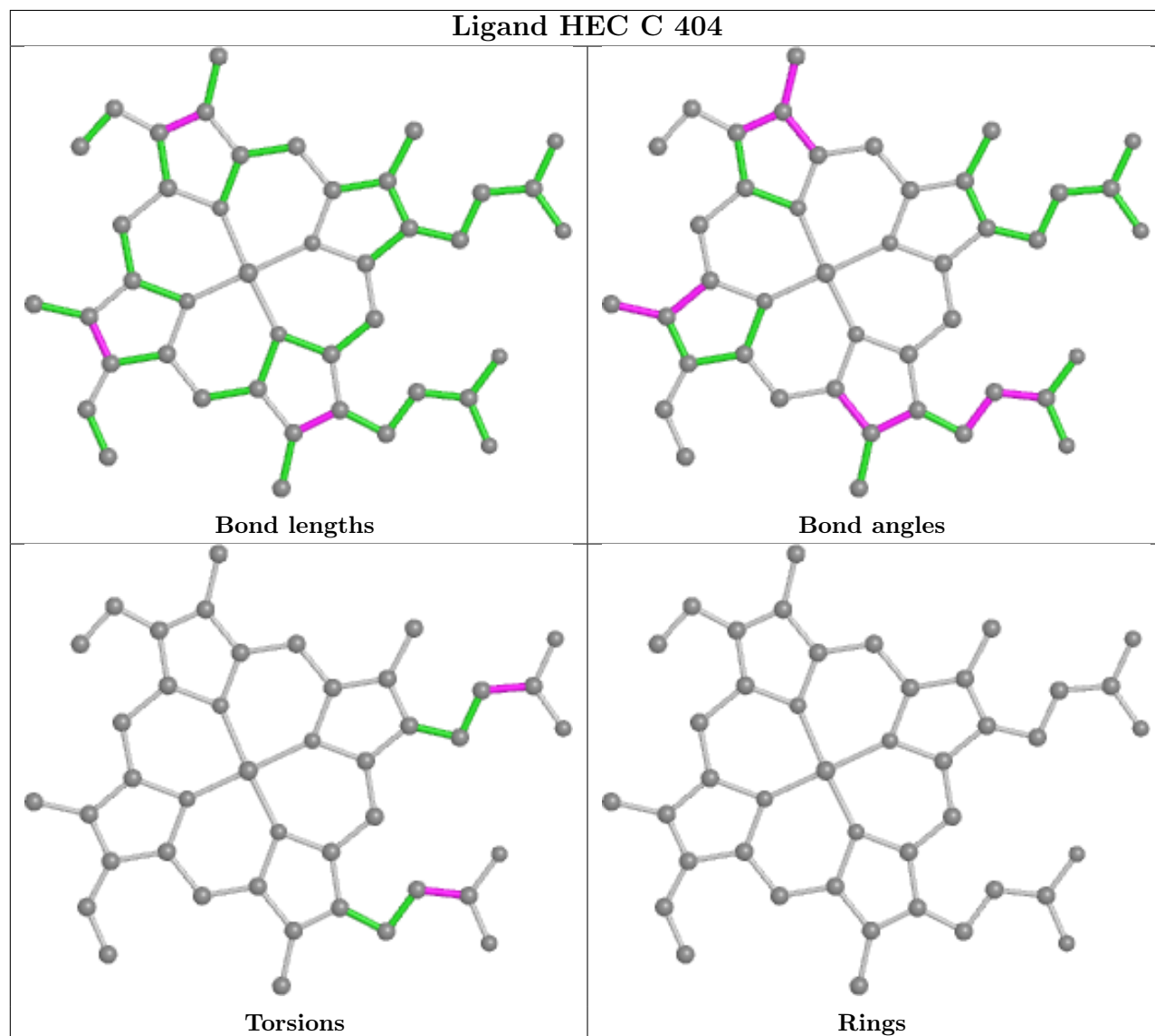
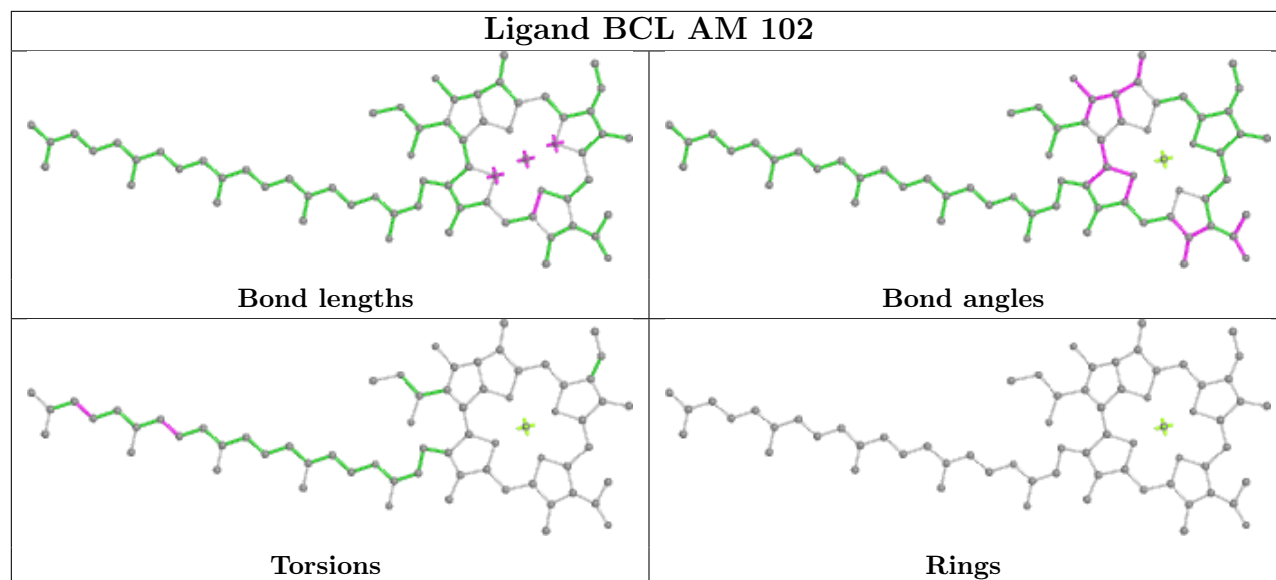












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

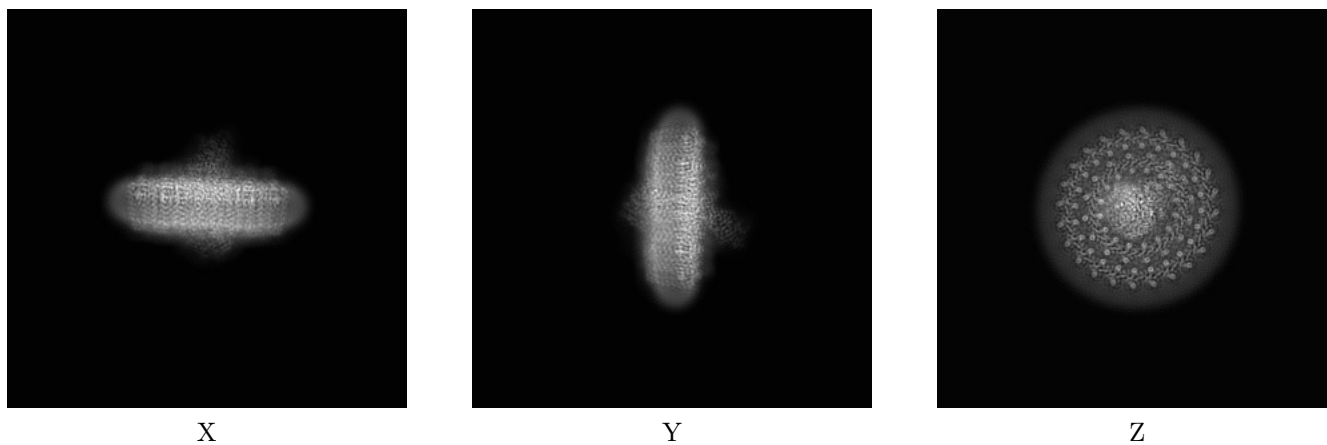
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-12679. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

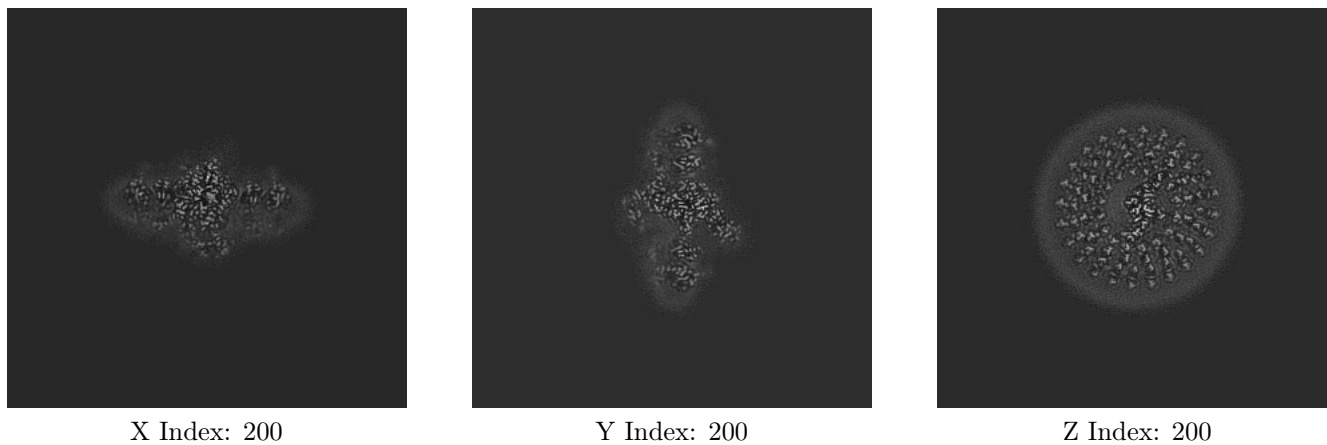
#### 6.1.1 Primary map



The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

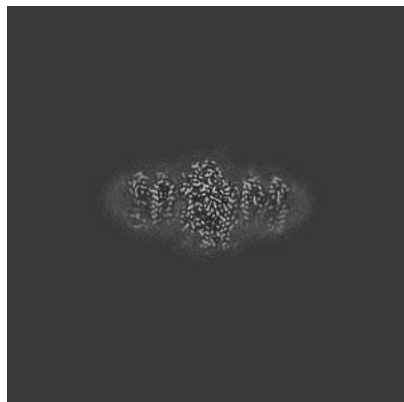
#### 6.2.1 Primary map



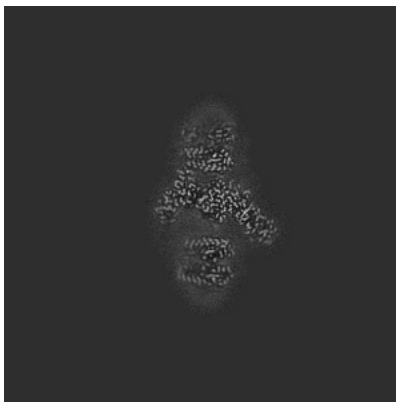
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

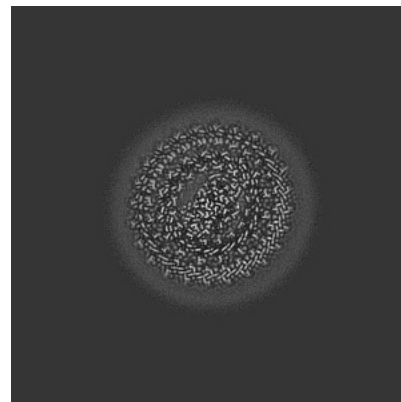
### 6.3.1 Primary map



X Index: 209



Y Index: 207

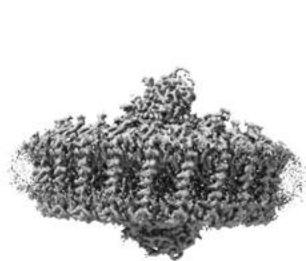


Z Index: 214

The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal surface views [i](#)

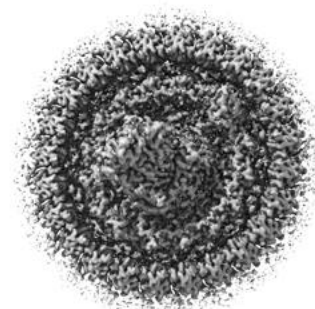
### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0238. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

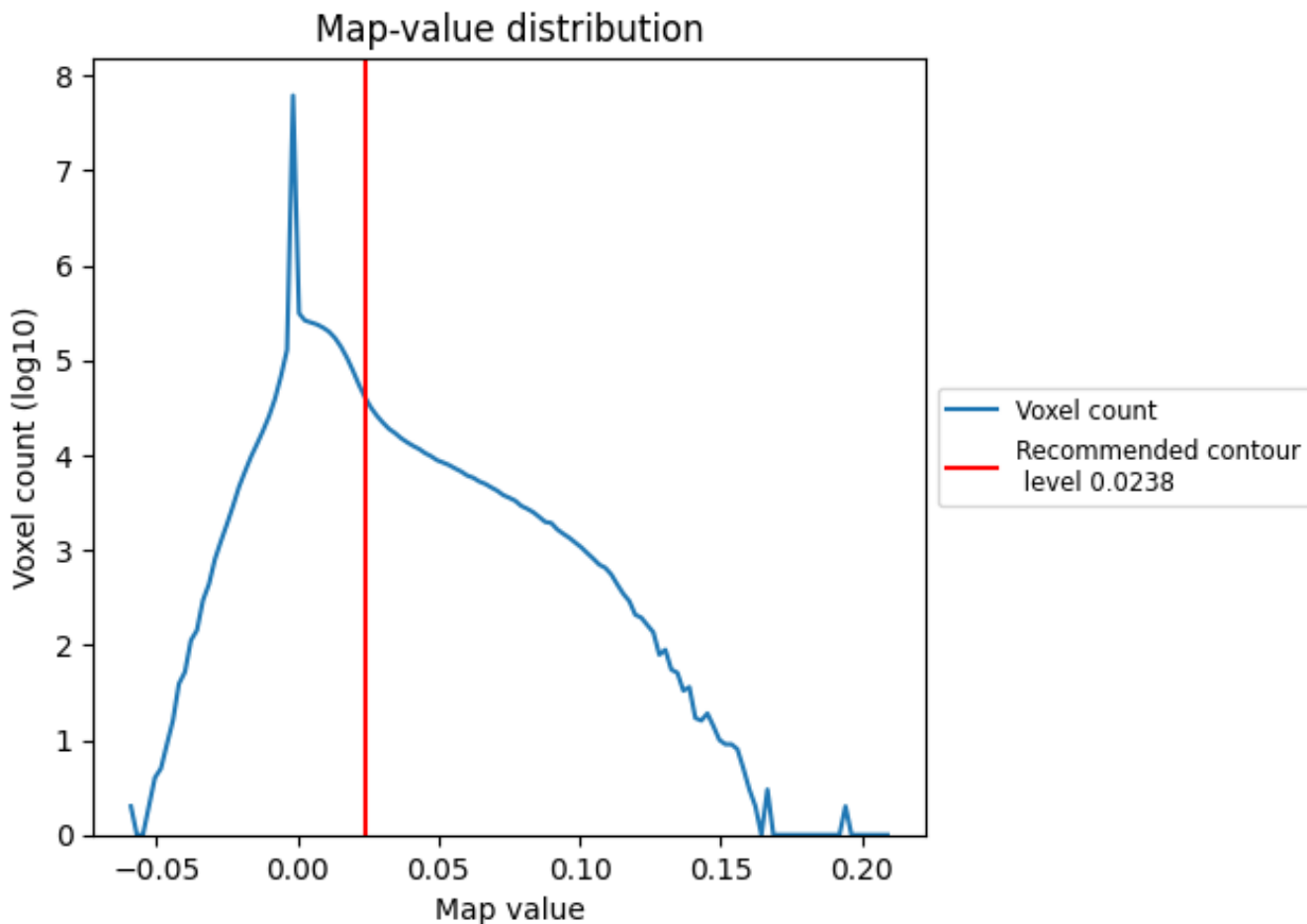
## 6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

## 7 Map analysis [i](#)

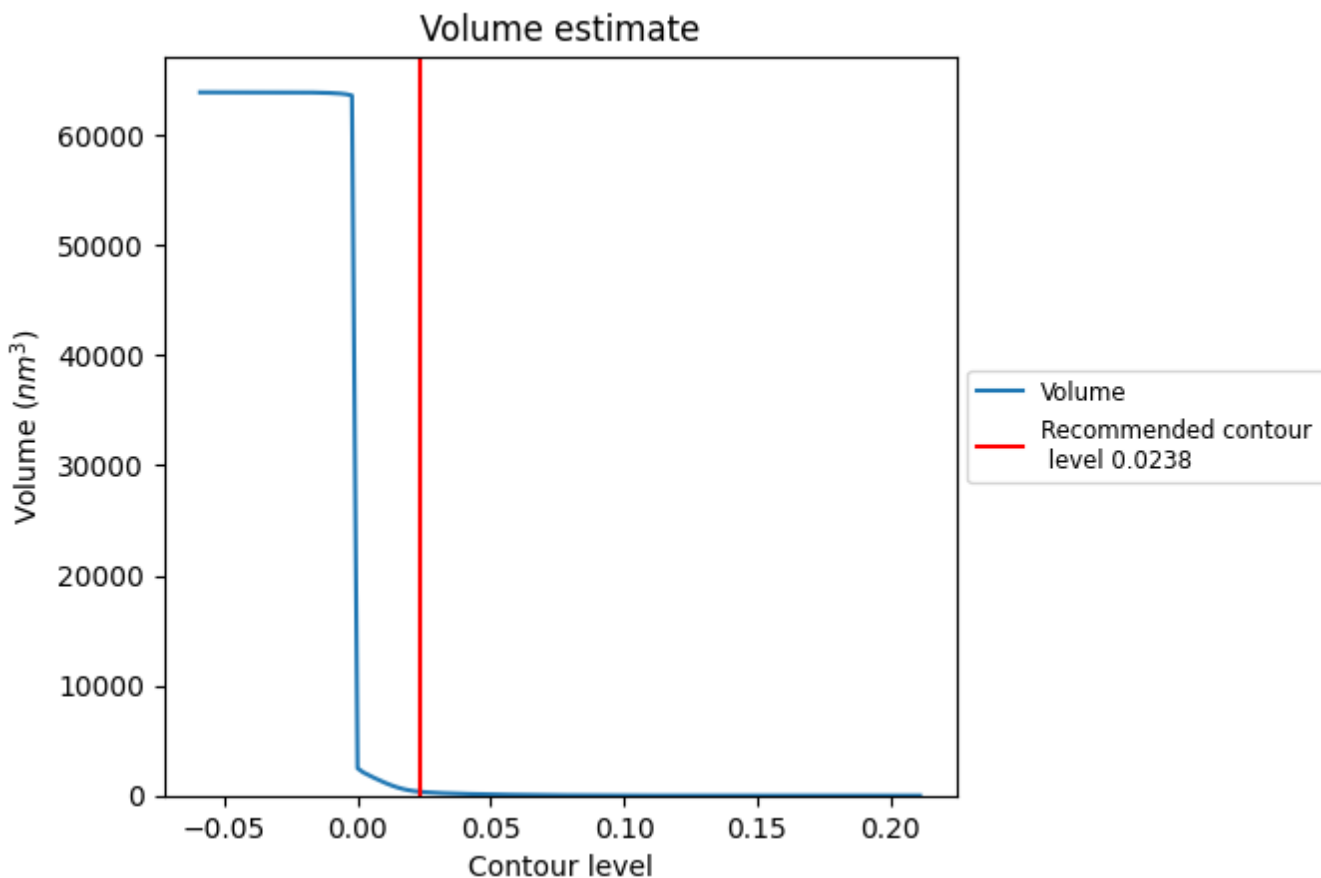
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

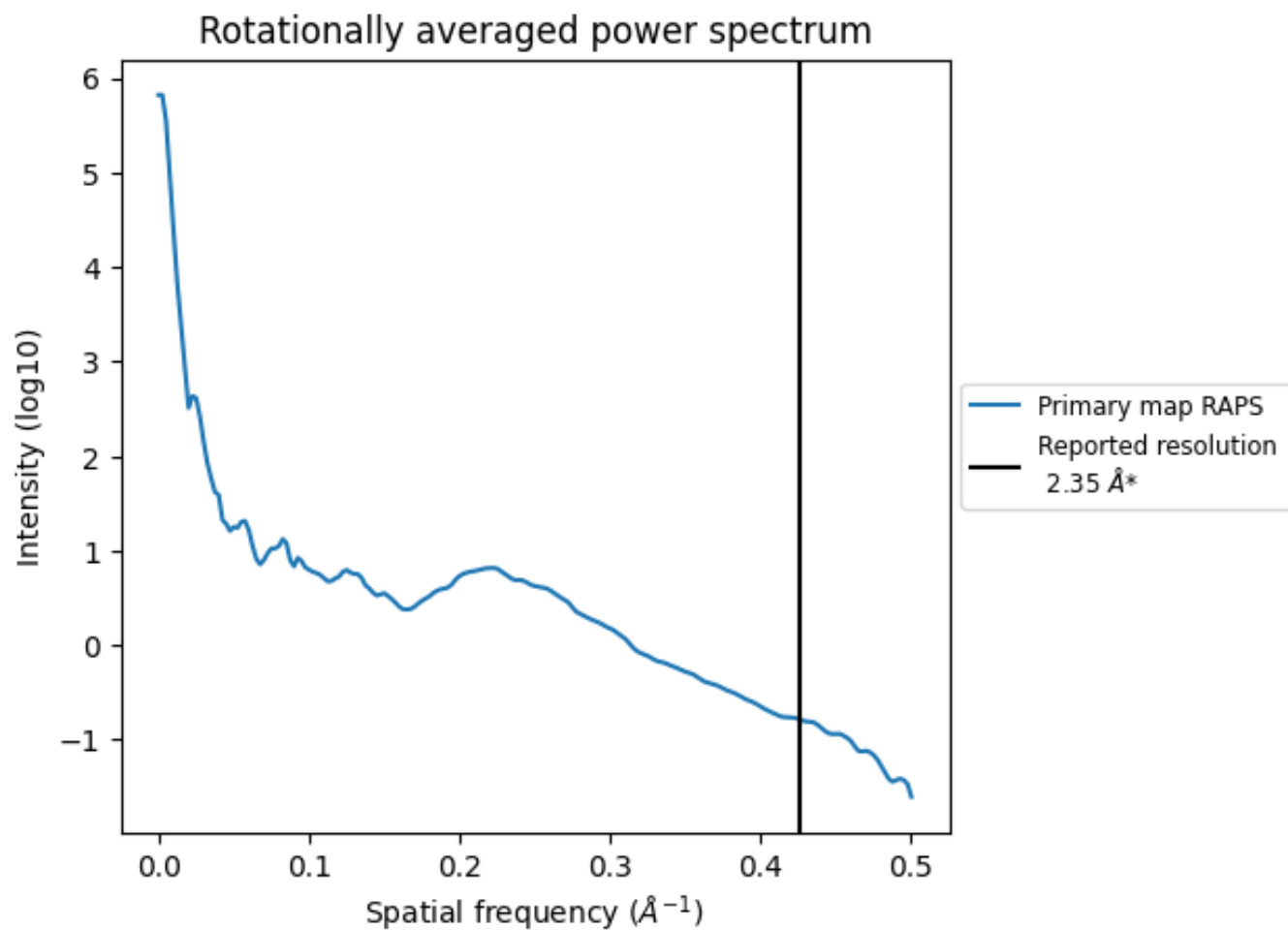
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 339  $\text{nm}^3$ ; this corresponds to an approximate mass of 307 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum i



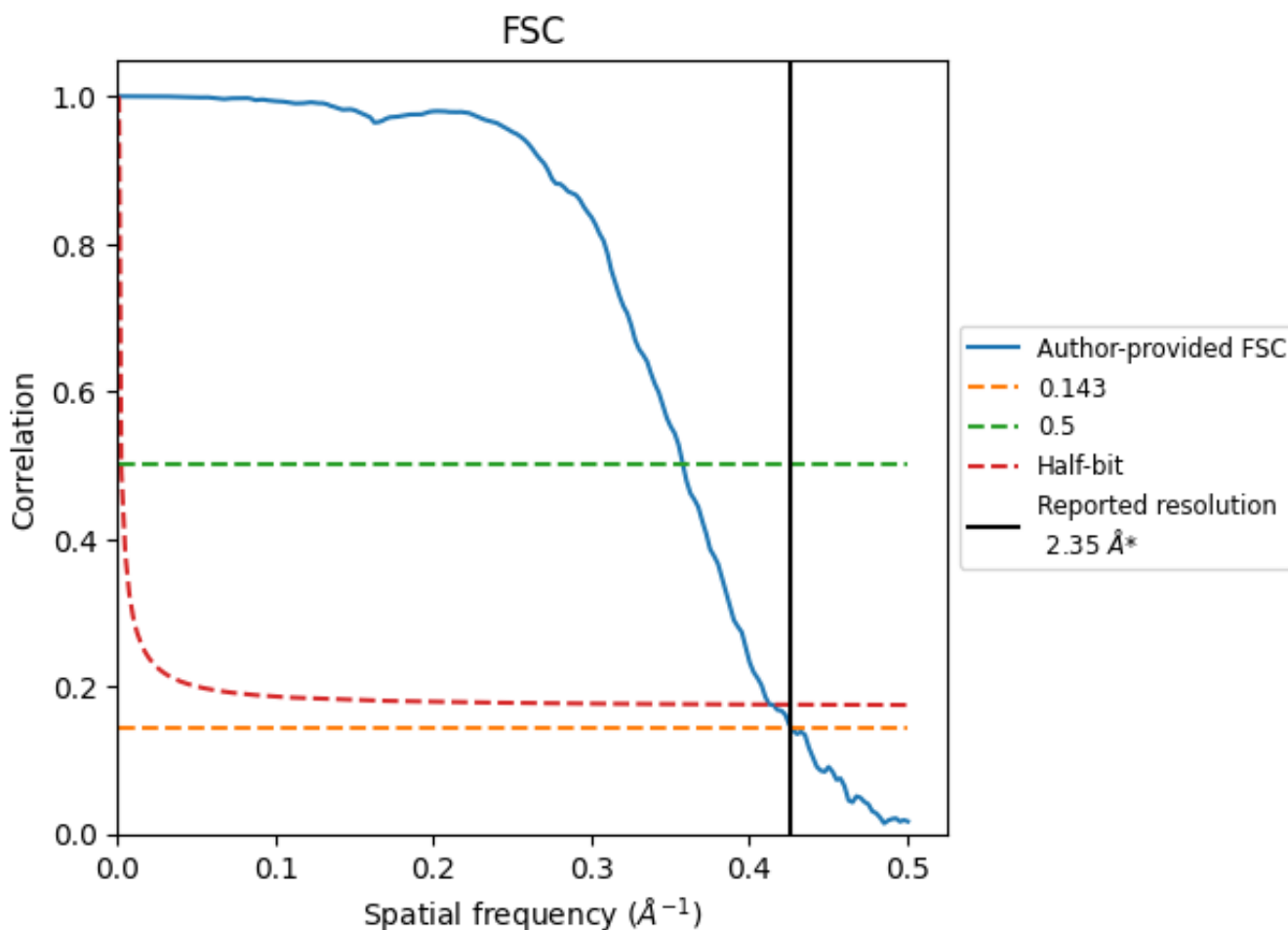
\*Reported resolution corresponds to spatial frequency of 0.426 Å<sup>-1</sup>



## 8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.426 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

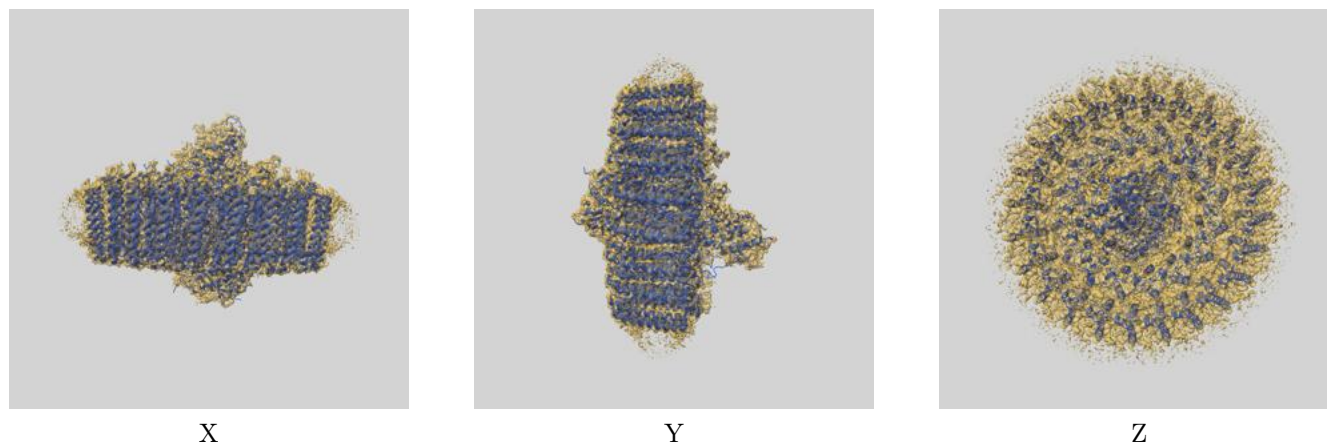
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.35	-	-
Author-provided FSC curve	2.34	2.79	2.42
Unmasked-calculated*	-	-	-

\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

## 9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-12679 and PDB model 7O0U. Per-residue inclusion information can be found in section 3 on page 38.

### 9.1 Map-model overlay [i](#)

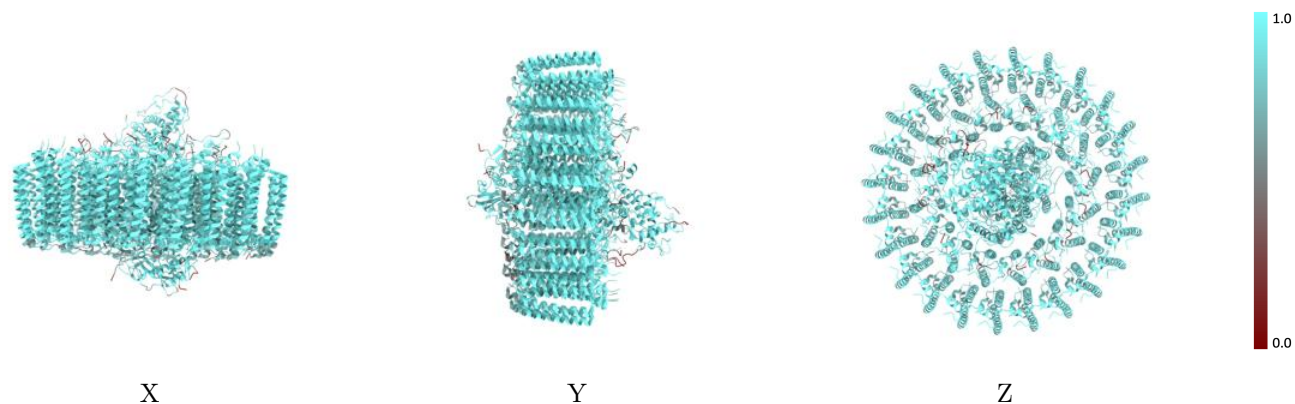


The images above show the 3D surface view of the map at the recommended contour level 0.0238 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)

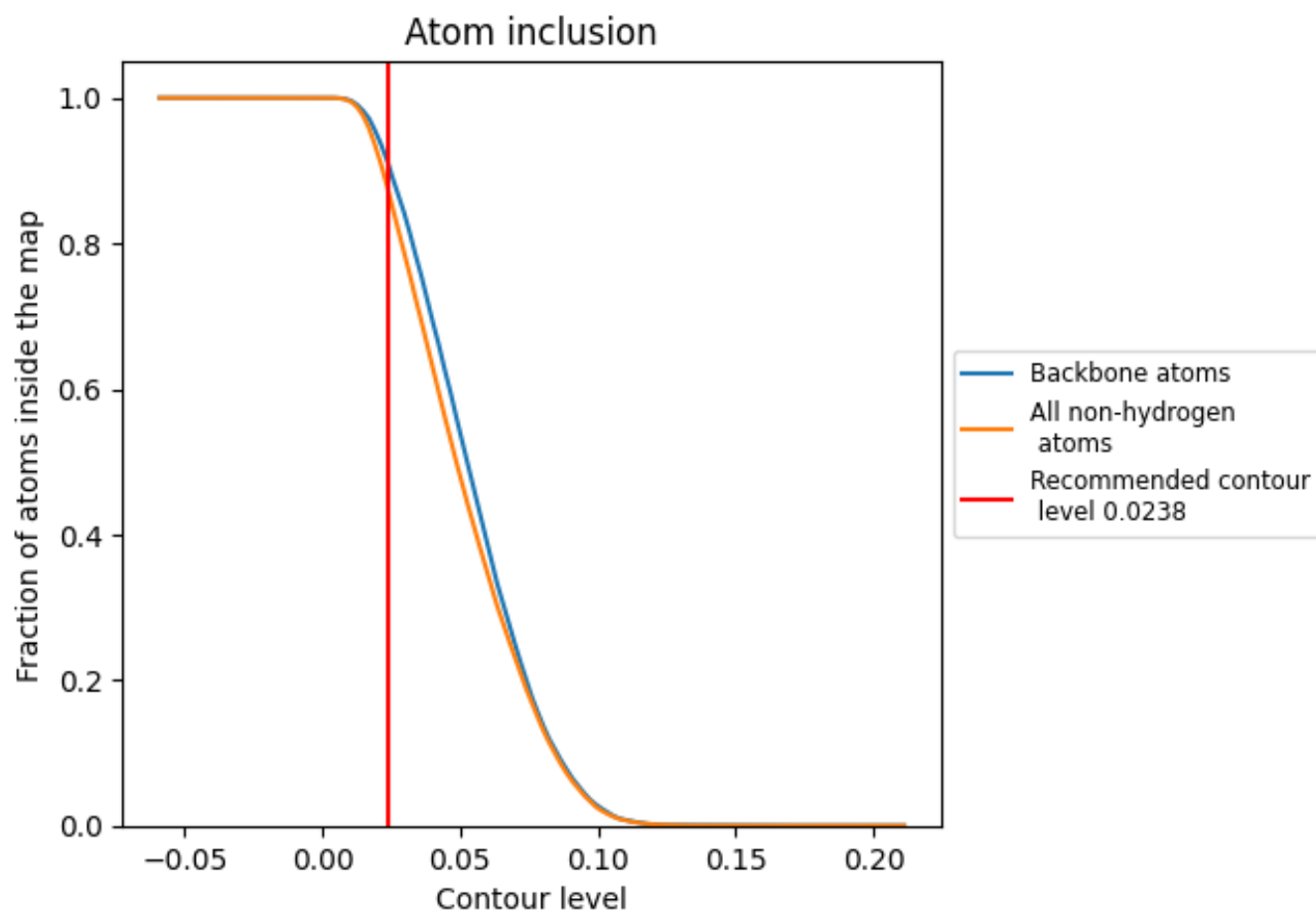
This section was not generated.

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0238).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 91% of all backbone atoms, 87% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary











































The table lists the average atom inclusion at the recommended contour level (0.0238) and Q-score for the entire model and for each chain.

Chain	Atom inclusion
All	0.8743
AA	0.9006
AB	0.8031
AC	0.9453
AD	0.9235
AE	0.8787
AF	0.8661
AG	0.9466
AH	0.8957
AI	0.8453
AJ	0.9252
AK	0.8927
AL	0.8270
AM	0.9153
AN	0.8219
AO	0.9484
AP	0.9337
AQ	0.9005
AR	0.8453
AS	0.8909
AT	0.8948
AU	0.8701
AV	0.8959
AW	0.8537
AX	0.9462
BA	0.7374
BB	0.7879
BC	0.7824
BD	0.7799
BE	0.8235
BF	0.8455
BG	0.7996
BH	0.8359
BI	0.8012
BJ	0.8323















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Chain	Atom inclusion
BK	 0.8321
BL	 0.8032
BM	 0.8168
BN	 0.8187
BO	 0.7977
BP	 0.8263
BQ	 0.8377
BR	 0.8012
BS	 0.7869
BT	 0.8030
BU	 0.7808
BV	 0.8087
BW	 0.8134
BX	 0.8266
C	 0.9405
C1	 0.9307
CG	 0.7143
H1	 0.8803
H2	 0.8772
L	 0.9601
M	 0.9269
MG	 1.0000
aa	 0.8563
ab	 0.8835
ac	 0.9053
ad	 0.9282
ae	 0.8881
af	 0.9078
ag	 0.8402
ah	 0.8893
ai	 0.8719
aj	 0.9157
ak	 0.9542
al	 0.9049
am	 0.9243
an	 0.8034
ao	 0.8504
ap	 0.8393
ba	 0.8524
bb	 0.8401
bc	 0.8958
bd	 0.8898

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<b>Chain</b>	<b>Atom inclusion</b>
be	 0.8858
bf	 0.9058
bg	 0.8924
bh	 0.8950
bi	 0.8739
bj	 0.8918
bk	 0.9075
bl	 0.8858
bm	 0.8818
bn	 0.8608
bo	 0.8502
bp	 0.8277