



## Full wwPDB EM Validation Report ⓘ

Dec 29, 2024 – 10:44 AM EST

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 : 5Y5S, 6ET5, 1LGH

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:

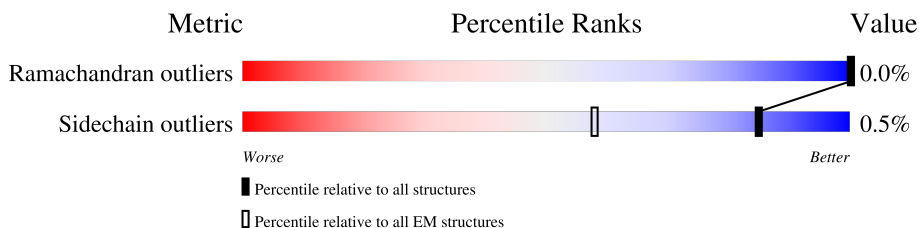
EMDB validation analysis : 0.0.1.dev113  
Mogul : 2022.3.0, CSD as543be (2022)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.40

# 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	207382	16835
Sidechain outliers	206894	16415

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 [i](#)

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	391	261	65	61	4	0	0
1	AB	49	391	261	65	61	4	0	0
1	AC	48	384	256	64	60	4	0	0
1	AD	48	384	256	64	60	4	0	0
1	AE	49	391	261	65	61	4	0	0
1	AF	49	391	261	65	61	4	0	0
1	AG	49	391	261	65	61	4	0	0
1	AH	49	391	261	65	61	4	0	0
1	AI	49	391	261	65	61	4	0	0
1	AJ	49	391	261	65	61	4	0	0
1	AK	49	391	261	65	61	4	0	0
1	AL	49	391	261	65	61	4	0	0
1	AM	49	391	261	65	61	4	0	0
1	AN	49	391	261	65	61	4	0	0
1	AO	49	391	261	65	61	4	0	0
1	AP	49	391	261	65	61	4	0	0
1	AQ	49	391	261	65	61	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
			Total	C	N	O	S		
7	L	273	2165	1457	351	347	10	0	0

- Molecule 8 is a protein called RC-M.

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

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

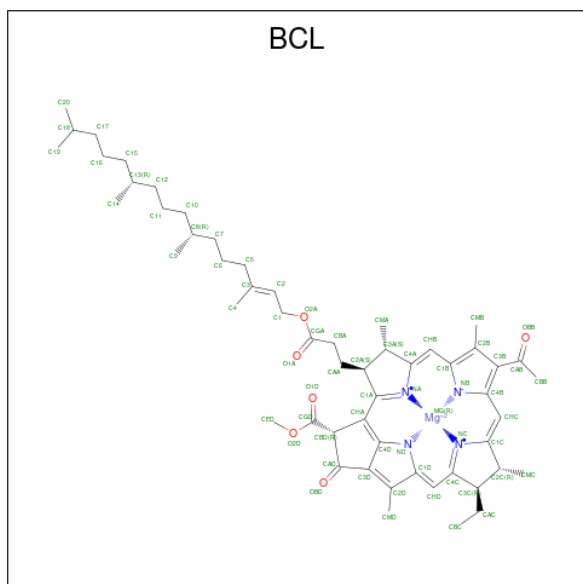
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	aa	60	465	304	81	77	3	0	0
9	ab	60	465	304	81	77	3	0	0
9	ac	56	443	290	77	73	3	0	0
9	ad	60	465	304	81	77	3	0	0
9	ae	60	465	304	81	77	3	0	0
9	af	60	465	304	81	77	3	0	0
9	ag	60	465	304	81	77	3	0	0
9	ah	60	465	304	81	77	3	0	0
9	ai	60	465	304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

- 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
			66	55	1	4	6	
11	AA	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	AB	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	AB	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	AB	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
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	66	55	1	4	6	0
11	AD	1	66	55	1	4	6	0
11	AE	1	66	55	1	4	6	0
11	AE	1	66	55	1	4	6	0
11	AF	1	66	55	1	4	6	0
11	AF	1	66	55	1	4	6	0
11	AG	1	66	55	1	4	6	0
11	AG	1	66	55	1	4	6	0
11	AH	1	66	55	1	4	6	0
11	AH	1	66	55	1	4	6	0
11	AI	1	66	55	1	4	6	0
11	AI	1	66	55	1	4	6	0
11	AJ	1	66	55	1	4	6	0
11	AJ	1	66	55	1	4	6	0
11	AK	1	66	55	1	4	6	0
11	AK	1	66	55	1	4	6	0
11	AL	1	66	55	1	4	6	0
11	AL	1	66	55	1	4	6	0
11	AM	1	66	55	1	4	6	0
11	AM	1	66	55	1	4	6	0
11	AN	1	66	55	1	4	6	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	Mg	N		O
11	AN	1	66	55	1	4	6	0
11	AN	1	66	55	1	4	6	0
11	AO	1	66	55	1	4	6	0
11	AP	1	66	55	1	4	6	0
11	AP	1	66	55	1	4	6	0
11	AQ	1	66	55	1	4	6	0
11	AQ	1	66	55	1	4	6	0
11	AR	1	66	55	1	4	6	0
11	AR	1	66	55	1	4	6	0
11	AS	1	66	55	1	4	6	0
11	AS	1	66	55	1	4	6	0
11	AS	1	66	55	1	4	6	0
11	AT	1	66	55	1	4	6	0
11	AU	1	66	55	1	4	6	0
11	AU	1	66	55	1	4	6	0
11	AV	1	66	55	1	4	6	0
11	AV	1	66	55	1	4	6	0
11	AV	1	66	55	1	4	6	0
11	AW	1	66	55	1	4	6	0
11	AW	1	66	55	1	4	6	0
11	AX	1	66	55	1	4	6	0

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

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

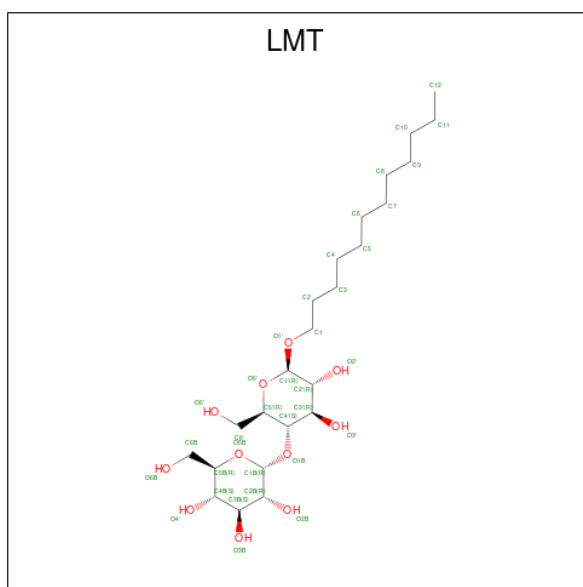
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Mol	Chain	Residues	Atoms				AltConf	
11	ao	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	ap	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	ba	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	bb	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	bc	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
11	bd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

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



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

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	AM	1	35	24	11	0
12	AN	1	35	24	11	0
12	AN	1	35	24	11	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	35	24	11	0
12	AT	1	35	24	11	0
12	AV	1	35	24	11	0
12	AW	1	35	24	11	0
12	BA	1	35	24	11	0
12	BA	1	35	24	11	0
12	BA	1	35	24	11	0
12	BA	1	35	24	11	0
12	BB	1	35	24	11	0
12	BB	1	35	24	11	0
12	BB	1	35	24	11	0
12	BC	1	35	24	11	0
12	BC	1	35	24	11	0
12	BC	1	35	24	11	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	BD	1	35	24	11	0
12	BD	1	35	24	11	0
12	BD	1	35	24	11	0
12	BD	1	35	24	11	0
12	BE	1	35	24	11	0
12	BE	1	35	24	11	0
12	BF	1	35	24	11	0
12	BF	1	35	24	11	0
12	BF	1	35	24	11	0
12	BG	1	35	24	11	0
12	BG	1	35	24	11	0
12	BG	1	35	24	11	0
12	BH	1	35	24	11	0
12	BH	1	35	24	11	0
12	BH	1	35	24	11	0
12	BI	1	35	24	11	0
12	BI	1	35	24	11	0
12	BI	1	35	24	11	0
12	BI	1	35	24	11	0
12	BJ	1	35	24	11	0
12	BJ	1	35	24	11	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	BK	1	35	24	11	0
12	BK	1	35	24	11	0
12	BK	1	35	24	11	0
12	BL	1	35	24	11	0
12	BL	1	35	24	11	0
12	BL	1	35	24	11	0
12	BL	1	35	24	11	0
12	BM	1	35	24	11	0
12	BM	1	35	24	11	0
12	BM	1	35	24	11	0
12	BN	1	35	24	11	0
12	BN	1	35	24	11	0
12	BN	1	35	24	11	0
12	BO	1	35	24	11	0
12	BO	1	35	24	11	0
12	BO	1	35	24	11	0
12	BP	1	35	24	11	0
12	BP	1	35	24	11	0
12	BP	1	35	24	11	0
12	BQ	1	35	24	11	0
12	BQ	1	35	24	11	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	BR	1	35	24	11	0
12	BR	1	35	24	11	0
12	BR	1	35	24	11	0
12	BS	1	35	24	11	0
12	BS	1	35	24	11	0
12	BS	1	35	24	11	0
12	BS	1	35	24	11	0
12	BT	1	35	24	11	0
12	BT	1	35	24	11	0
12	BT	1	35	24	11	0
12	BU	1	35	24	11	0
12	BU	1	35	24	11	0
12	BU	1	35	24	11	0
12	BV	1	35	24	11	0
12	BV	1	35	24	11	0
12	BV	1	35	24	11	0
12	BW	1	35	24	11	0
12	BW	1	35	24	11	0
12	BX	1	35	24	11	0
12	BX	1	35	24	11	0
12	H2	1	35	24	11	0

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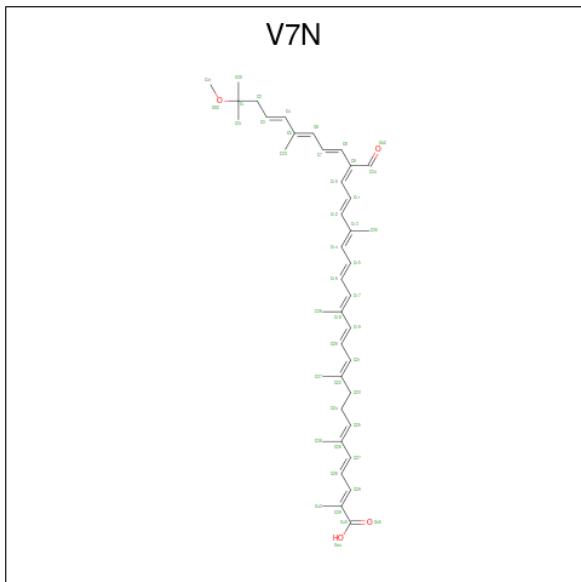
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
12	L	1	35	24	11	0
12	L	1	35	24	11	0
12	L	1	35	24	11	0
12	L	1	35	24	11	0
12	L	1	35	24	11	0
12	M	1	35	24	11	0
12	ac	1	35	24	11	0
12	ba	1	35	24	11	0
12	bb	1	35	24	11	0
12	bc	1	35	24	11	0
12	bd	1	35	24	11	0
12	be	1	35	24	11	0
12	be	1	35	24	11	0
12	bf	1	35	24	11	0
12	bg	1	35	24	11	0
12	bi	1	35	24	11	0
12	bi	1	35	24	11	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
			35	24	11	
12	bo	1	Total	C	O	0
			35	24	11	
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
			45	41	4	
13	AE	1	Total	C	O	0
			45	41	4	
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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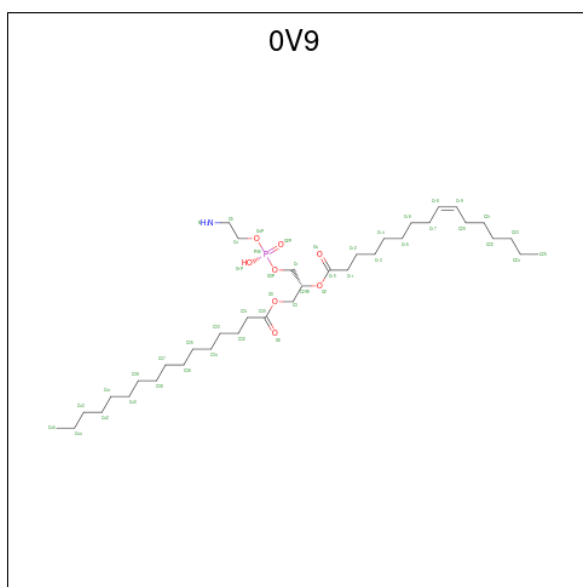
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
13	AW	1	45	41	4	0
13	BB	1	45	41	4	0
13	BC	1	45	41	4	0
13	BE	1	45	41	4	0
13	BG	1	45	41	4	0
13	BH	1	45	41	4	0
13	BJ	1	45	41	4	0
13	BK	1	45	41	4	0
13	BL	1	45	41	4	0
13	BM	1	45	41	4	0
13	BN	1	45	41	4	0
13	BO	1	45	41	4	0
13	BP	1	45	41	4	0
13	BQ	1	45	41	4	0
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
			Total	C	O	
13	bb	1	45	41	4	0
13	bc	1	45	41	4	0
13	bd	1	45	41	4	0
13	be	1	45	41	4	0
13	bf	1	45	41	4	0
13	bh	1	45	41	4	0
13	bi	1	45	41	4	0
13	bj	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

- 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).



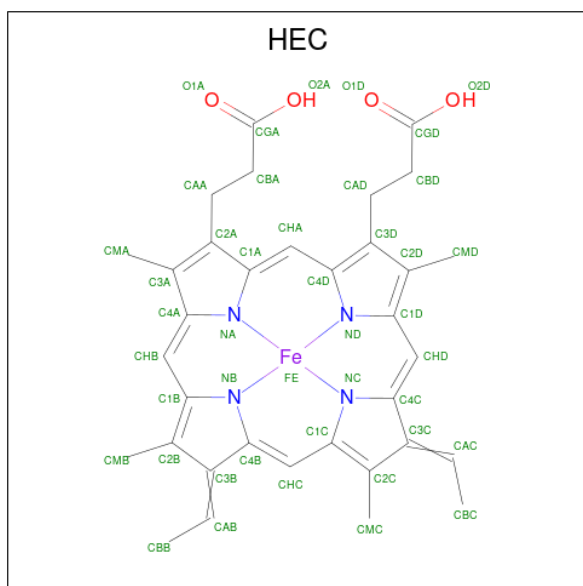
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
14	AJ	1	Total 45	C 35	N 1	O 8	P 1	0
14	AQ	1	Total 45	C 35	N 1	O 8	P 1	0
14	H1	1	Total 45	C 35	N 1	O 8	P 1	0
14	L	1	Total 45	C 35	N 1	O 8	P 1	0
14	aj	1	Total 45	C 35	N 1	O 8	P 1	0
14	bb	1	Total 45	C 35	N 1	O 8	P 1	0
14	bb	1	Total 45	C 35	N 1	O 8	P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

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Mol	Chain	Residues	Atoms					AltConf
14	bk	1	Total	C	N	O	P	0
			45	35	1	8	1	
14	bl	1	Total	C	N	O	P	0
			45	35	1	8	1	
14	bm	1	Total	C	N	O	P	0
			45	35	1	8	1	
14	bn	1	Total	C	N	O	P	0
			45	35	1	8	1	
14	bo	1	Total	C	N	O	P	0
			45	35	1	8	1	
14	bp	1	Total	C	N	O	P	0
			45	35	1	8	1	

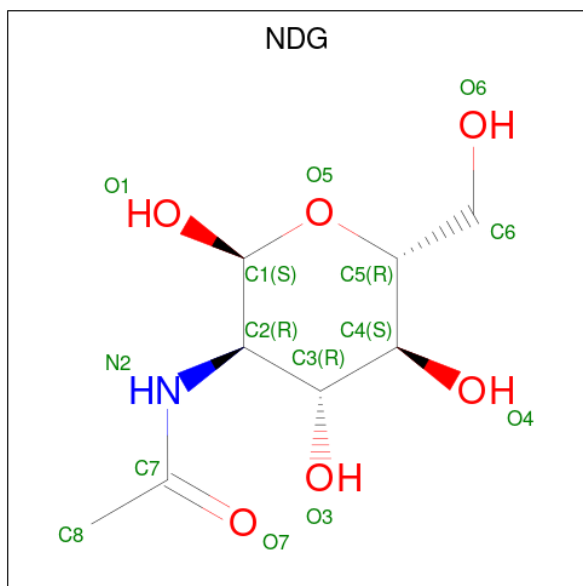
- Molecule 15 is HEME C (three-letter code: HEC) (formula:  $C_{34}H_{34}FeN_4O_4$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
15	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
15	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
15	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
15	C	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

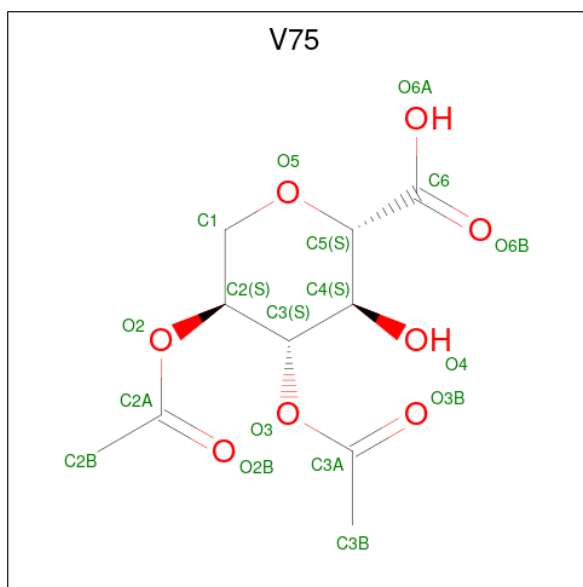
- Molecule 16 is 2-acetamido-2-deoxy-alpha-D-glucopyranose (three-letter code: NDG)

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



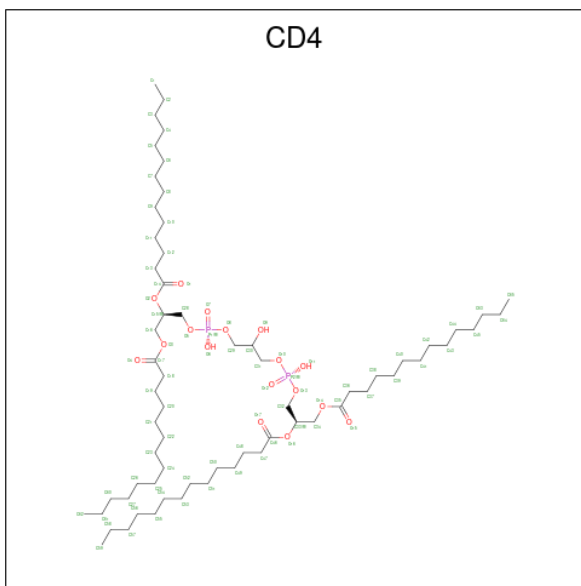
Mol	Chain	Residues	Atoms				AltConf
16	C	1	Total	C	N	O	0
			14	8	1	5	
16	C1	1	Total	C	N	O	0
			14	8	1	5	

- 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>).



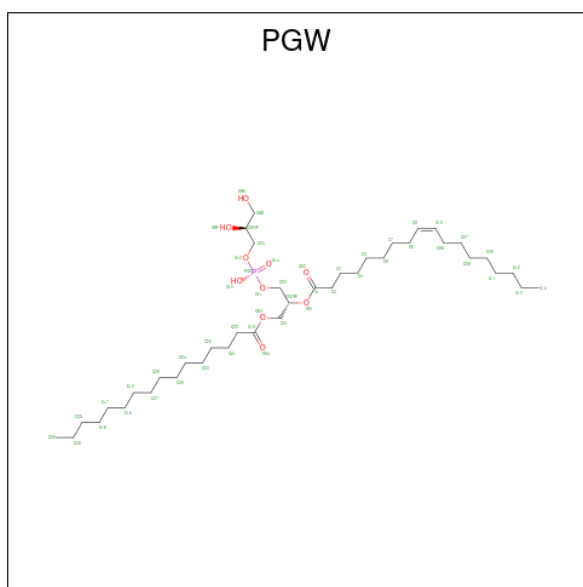
Mol	Chain	Residues	Atoms			AltConf
17	C	1	Total	C	O	0
			18	10	8	
17	M	1	Total	C	O	0
			18	10	8	

- 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:  $C_{65}H_{126}O_{17}P_2$ ).



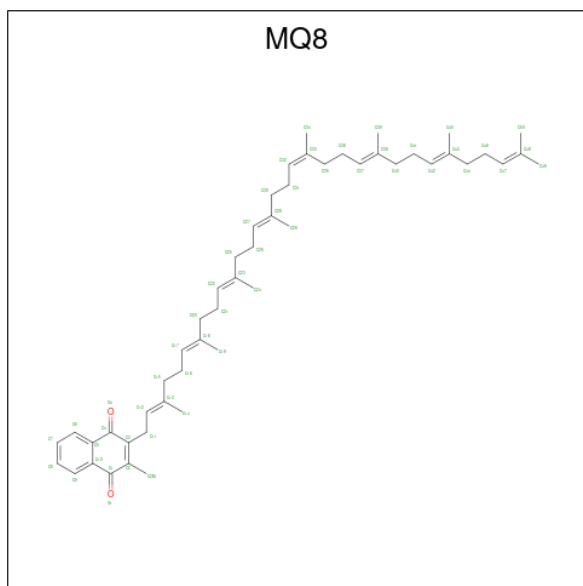
Mol	Chain	Residues	Atoms				AltConf
18	H1	1	Total	C	O	P	0
			84	65	17	2	
18	M	1	Total	C	O	P	0
			84	65	17	2	
18	M	1	Total	C	O	P	0
			84	65	17	2	
18	ad	1	Total	C	O	P	0
			84	65	17	2	
18	ae	1	Total	C	O	P	0
			84	65	17	2	
18	ag	1	Total	C	O	P	0
			84	65	17	2	

- 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).



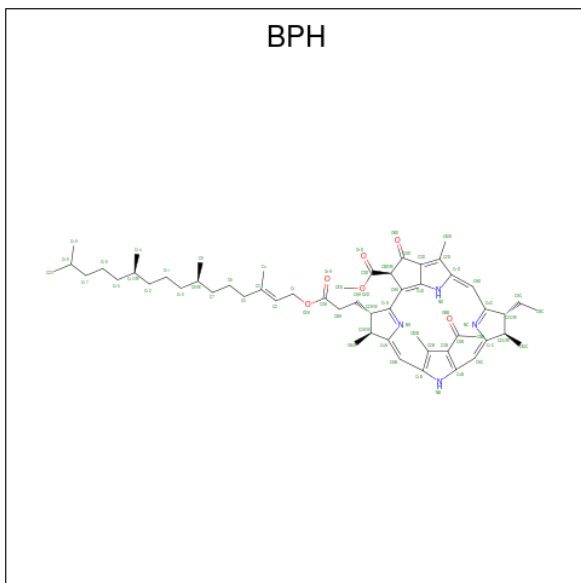
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
20	L	1	53	51	2	0
20	M	1	53	51	2	0

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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).



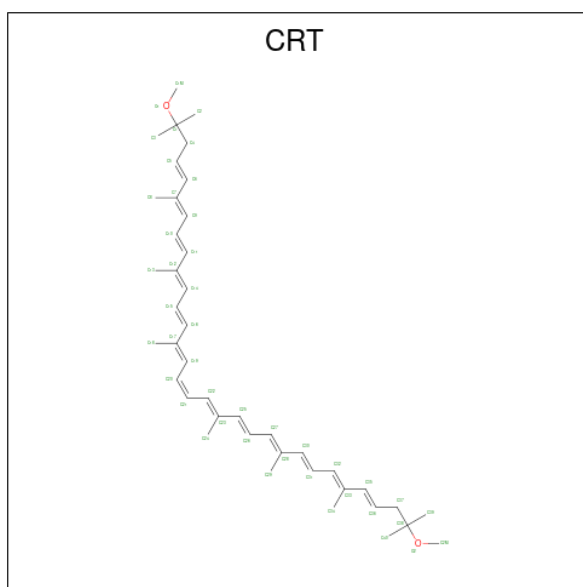
Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
21	L	1	65	55	4	6	0
21	M	1	65	55	4	6	0

- 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

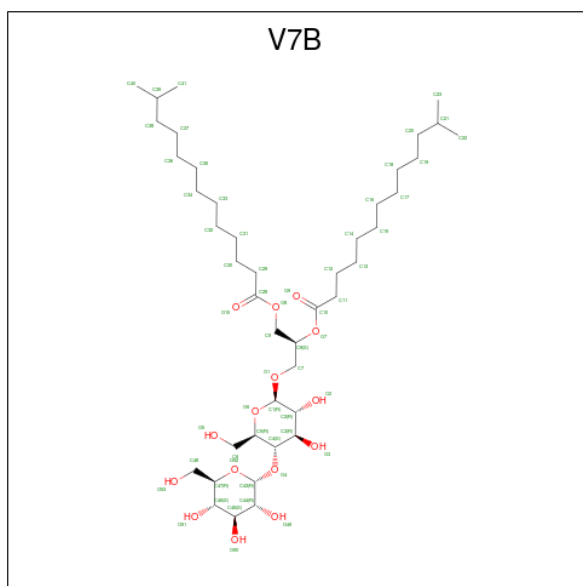
- Molecule 23 is SPIRILLOXANTHIN (three-letter code: CRT) (formula:  $C_{42}H_{60}O_2$ ) (labeled as "Ligand of Interest" by depositor).





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>).



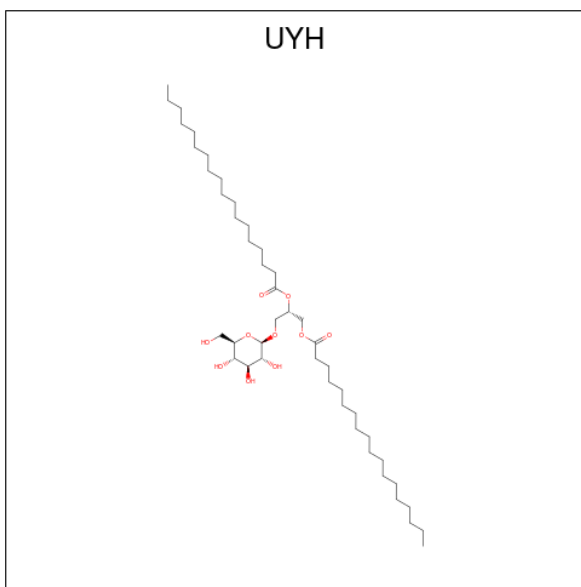
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
24	af	1	58	43	15	0

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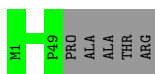
Mol	Chain	Residues	Atoms		AltConf
26	bc	3	Total 3	O 3	0
26	bd	5	Total 5	O 5	0
26	be	6	Total 6	O 6	0
26	bf	2	Total 2	O 2	0
26	bg	3	Total 3	O 3	0
26	bh	4	Total 4	O 4	0
26	bi	3	Total 3	O 3	0
26	bj	1	Total 1	O 1	0
26	bk	5	Total 5	O 5	0
26	bl	2	Total 2	O 2	0
26	bm	5	Total 5	O 5	0
26	bn	3	Total 3	O 3	0
26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

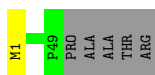
- Molecule 1: LHh-alpha

Chain AA:  91% 9%




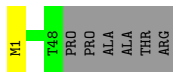
- Molecule 1: LHh-alpha

Chain AB:  89% 9%



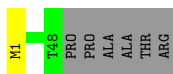
- Molecule 1: LHh-alpha

Chain AC:  87% 11%



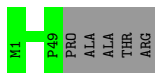
- Molecule 1: LHh-alpha

Chain AD:  87% 11%



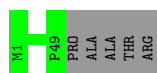
- Molecule 1: LHh-alpha

Chain AE:  91% 9%



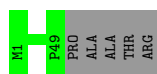
- Molecule 1: LHh-alpha

Chain AF:  91% 9%



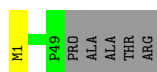
● Molecule 1: Lhh-alpha

Chain AG:  91% 9%



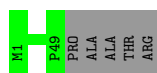
● Molecule 1: Lhh-alpha

Chain AH:  89% 9%




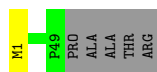
● Molecule 1: Lhh-alpha

Chain AI:  91% 9%



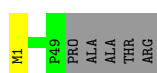
● Molecule 1: Lhh-alpha

Chain AJ:  89% 9%



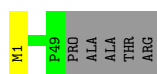
● Molecule 1: Lhh-alpha

Chain AK:  89% 9%

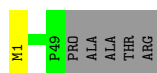


● Molecule 1: Lhh-alpha

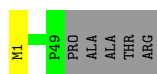
Chain AL:  89% 9%



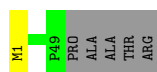
● Molecule 1: Lhh-alpha



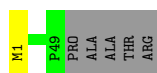
● Molecule 1: Lhh-alpha



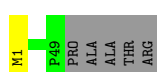
● Molecule 1: Lhh-alpha



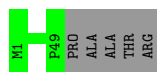
● Molecule 1: Lhh-alpha



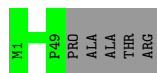
● Molecule 1: Lhh-alpha



● Molecule 1: Lhh-alpha



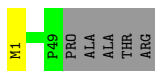
● Molecule 1: Lhh-alpha



● Molecule 1: Lhh-alpha

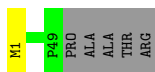


Chain AT:  89% 9%



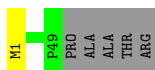
- Molecule 1: Lhh-alpha

Chain AU:  89% 9%



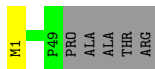
- Molecule 1: Lhh-alpha

Chain AV:  89% 9%



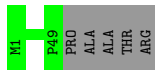
- Molecule 1: Lhh-alpha

Chain AW:  89% 9%



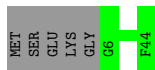
- Molecule 1: Lhh-alpha

Chain AX:  91% 9%



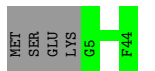
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BA:  89% 11%



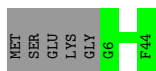
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BB:  91% 9%



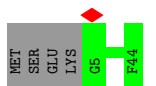
- Molecule 2: Light-harvesting protein B:885 subunit beta

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%



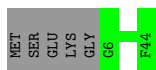
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BF:  86% 11%



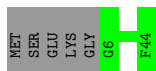
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BG:  89% 11%



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

Chain BH:  89% 11%



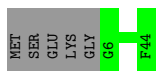
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BI:  91% 9%



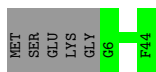
- Molecule 2: Light-harvesting protein B:885 subunit beta

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%



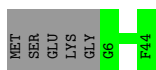
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BM:  89% 11%




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

Chain BN:  89% 11%



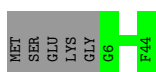
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BO:  86% 11%



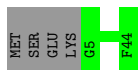
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BP:  89% 11%



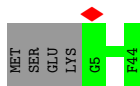
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BQ:  91% 9%



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

Chain BR:  91% 9%



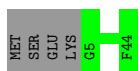
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BS:  91% 9%



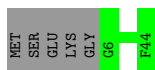
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BT:  91% 9%



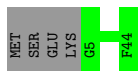
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain BU:  89% 11%



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

Chain BV:  91% 9%

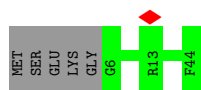
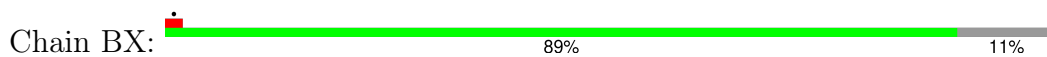


- Molecule 2: Light-harvesting protein B:885 subunit beta

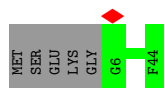
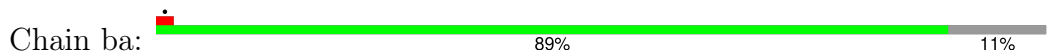
Chain BW:  91% 9%



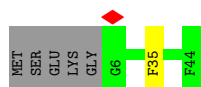
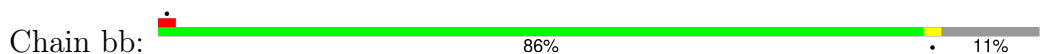
- Molecule 2: Light-harvesting protein B:885 subunit beta



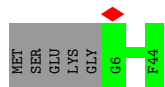
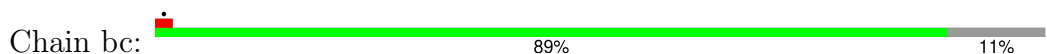
- Molecule 2: Light-harvesting protein B:885 subunit beta



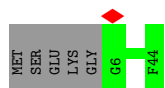
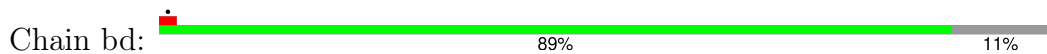
- Molecule 2: Light-harvesting protein B:885 subunit beta



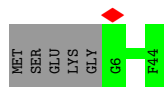
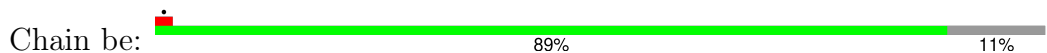
- Molecule 2: Light-harvesting protein B:885 subunit beta



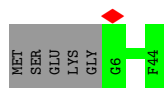
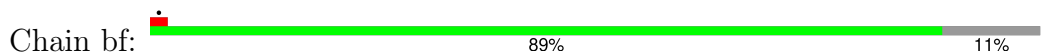
- Molecule 2: Light-harvesting protein B:885 subunit beta




- 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

Chain bg:  89% 11%



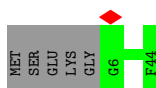
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain bh:  89% 11%




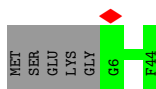
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain bi:  89% 11%



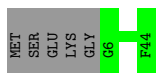
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain bj:  89% 11%




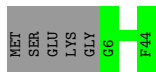
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain bk:  89% 11%



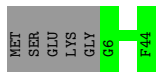
- Molecule 2: Light-harvesting protein B:885 subunit beta

Chain bl:  89% 11%

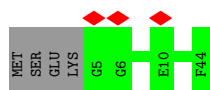
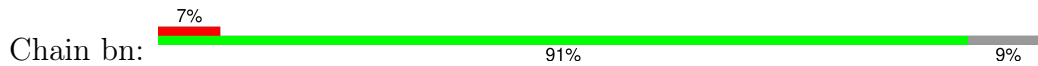


- Molecule 2: Light-harvesting protein B:885 subunit beta

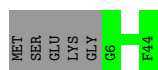
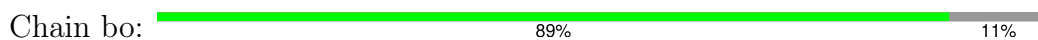
Chain bm:  89% 11%



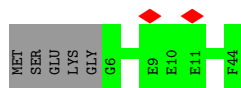
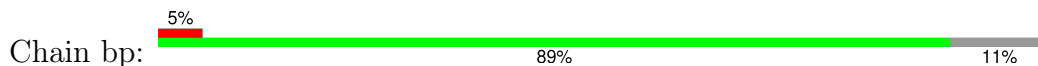
● Molecule 2: Light-harvesting protein B:885 subunit beta



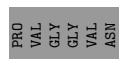
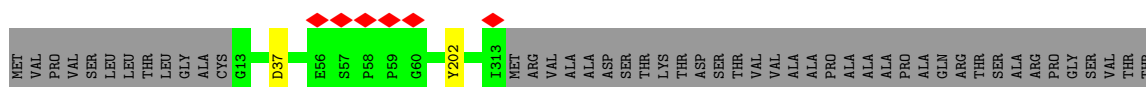
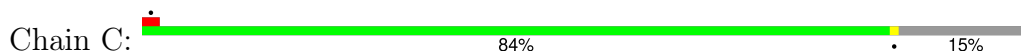
● Molecule 2: Light-harvesting protein B:885 subunit beta



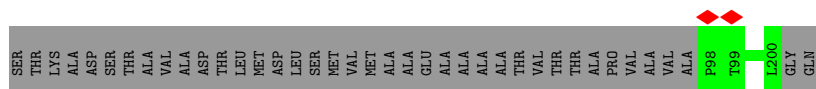
● Molecule 2: Light-harvesting protein B:885 subunit beta



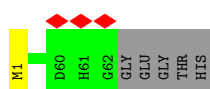
● Molecule 3: MULTHEME\_CYTC domain-containing protein



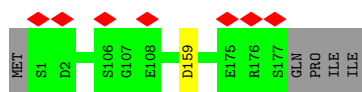
● Molecule 4: RC-S



● Molecule 5: PRCH domain-containing protein



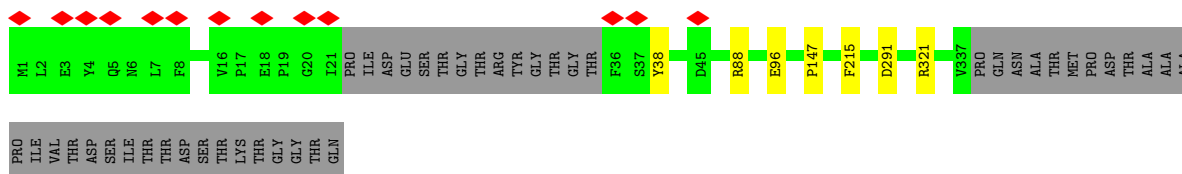
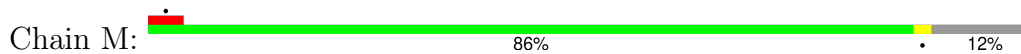
● Molecule 6: RC-Hc



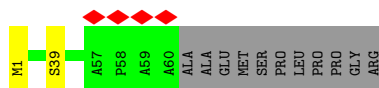
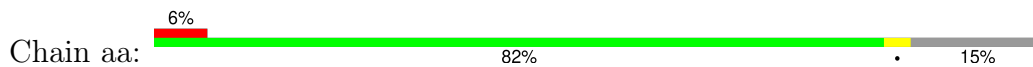
- Molecule 7: Photosynthetic reaction center L subunit



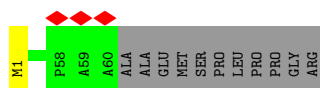
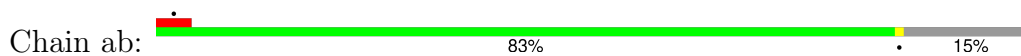
- Molecule 8: RC-M



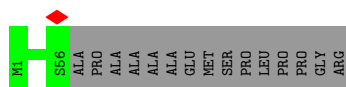
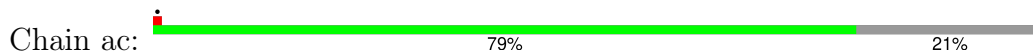
- Molecule 9: LHC domain-containing protein



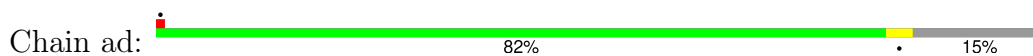
- Molecule 9: LHC domain-containing protein



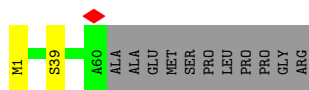
- Molecule 9: LHC domain-containing protein



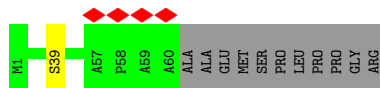
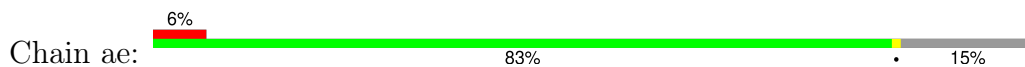
- Molecule 9: LHC domain-containing protein



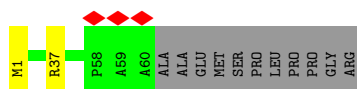
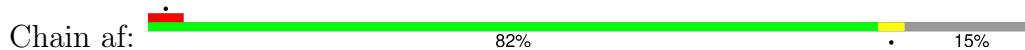




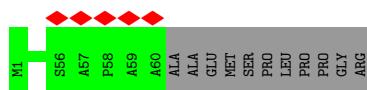
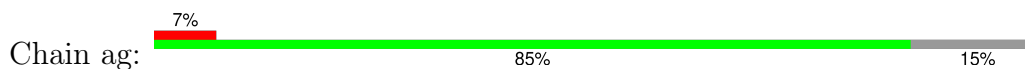
- Molecule 9: LHC domain-containing protein



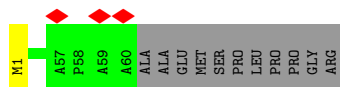
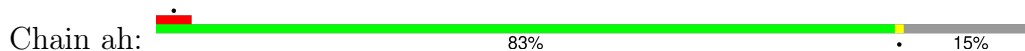
- Molecule 9: LHC domain-containing protein



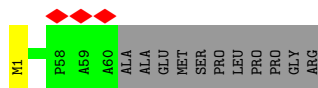
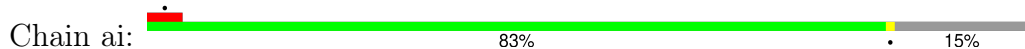
- Molecule 9: LHC domain-containing protein



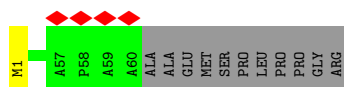
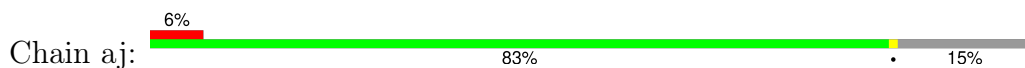
- Molecule 9: LHC domain-containing protein



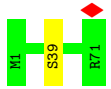
- Molecule 9: LHC domain-containing protein



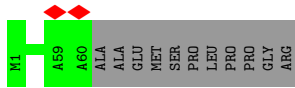
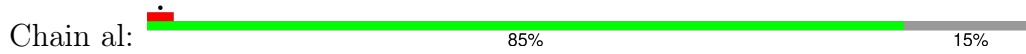
- Molecule 9: LHC domain-containing protein



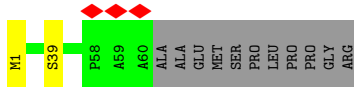
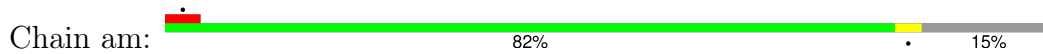
- Molecule 9: LHC domain-containing protein



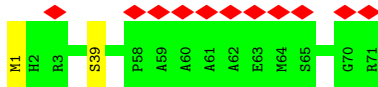
- Molecule 9: LHC domain-containing protein



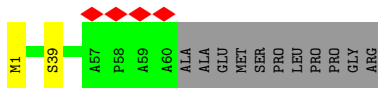
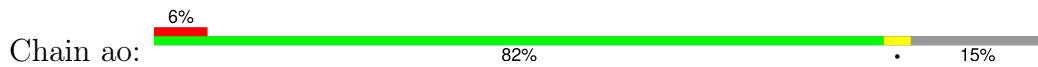
- Molecule 9: LHC domain-containing protein



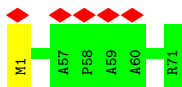
- Molecule 9: LHC domain-containing protein



- 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: V7N, LMT, CRT, UYH, NDG, HEC, BCL, PGW, V7B, 0V9, FME, MAN, V75, FE, RAM, MQ8, BPH, CD4

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%)	30	34
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%)	34	43
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%)	79	88
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%)	81	89
7	L	215/216 (100%)	211 (98%)	4 (2%)	52	65
8	M	263/298 (88%)	258 (98%)	5 (2%)	52	65
9	aa	46/54 (85%)	45 (98%)	1 (2%)	47	59
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%)	47	59
9	ae	46/54 (85%)	45 (98%)	1 (2%)	47	59
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%)	52	65
9	al	46/54 (85%)	46 (100%)	0	100	100
9	am	46/54 (85%)	45 (98%)	1 (2%)	47	59
9	an	54/54 (100%)	53 (98%)	1 (2%)	52	65
9	ao	46/54 (85%)	45 (98%)	1 (2%)	47	59
9	ap	54/54 (100%)	54 (100%)	0	100	100
All	All	3917/4407 (89%)	3897 (100%)	20 (0%)	85	93

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	AI	1	1	8,9,10	0.98	0	8,9,11	0.86	0
1	FME	AG	1	1	8,9,10	0.98	0	8,9,11	0.92	0
9	FME	ah	1	9	8,9,10	0.94	0	8,9,11	1.01	1 (12%)
1	FME	AJ	1	1	8,9,10	0.95	0	8,9,11	1.00	1 (12%)
1	FME	AC	1	1	8,9,10	0.97	0	8,9,11	1.00	1 (12%)
1	FME	AV	1	1	8,9,10	0.94	0	8,9,11	1.10	1 (12%)
1	FME	AD	1	1	8,9,10	0.96	0	8,9,11	1.27	2 (25%)
9	FME	af	1	9	8,9,10	0.97	0	8,9,11	0.98	1 (12%)
1	FME	AN	1	1	8,9,10	0.93	0	8,9,11	1.33	2 (25%)
8	FME	M	1	8	8,9,10	0.95	0	8,9,11	0.78	0
1	FME	AE	1	1	8,9,10	0.96	0	8,9,11	0.90	0
9	FME	ab	1	9	8,9,10	0.92	0	8,9,11	1.16	1 (12%)
9	FME	am	1	9	8,9,10	0.97	0	8,9,11	1.01	1 (12%)
5	FME	H1	1	5	8,9,10	0.96	0	8,9,11	1.04	1 (12%)
1	FME	AH	1	1	8,9,10	0.96	0	8,9,11	0.97	1 (12%)
9	FME	ao	1	9	8,9,10	0.93	0	8,9,11	1.07	1 (12%)
9	FME	aj	1	9	8,9,10	0.95	0	8,9,11	1.11	1 (12%)
9	FME	aa	1	9	8,9,10	0.96	0	8,9,11	0.98	1 (12%)
1	FME	AB	1	1	8,9,10	0.95	0	8,9,11	1.05	1 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	FME	AK	1	1	8,9,10	0.94	0	8,9,11	1.11	1 (12%)
1	FME	AO	1	1	8,9,10	0.94	0	8,9,11	1.28	2 (25%)
1	FME	AW	1	1	8,9,10	0.95	0	8,9,11	0.97	1 (12%)
9	FME	ag	1	9	8,9,10	0.97	0	8,9,11	0.89	0
9	FME	an	1	9	8,9,10	0.96	0	8,9,11	1.01	1 (12%)
1	FME	AP	1	1	8,9,10	0.96	0	8,9,11	1.04	1 (12%)
1	FME	AU	1	1	8,9,10	0.95	0	8,9,11	0.96	1 (12%)
9	FME	al	1	9	8,9,10	0.94	0	8,9,11	0.95	0
9	FME	ad	1	9	8,9,10	0.94	0	8,9,11	1.05	1 (12%)
1	FME	AT	1	1	8,9,10	0.96	0	8,9,11	1.03	1 (12%)
1	FME	AA	1	1	8,9,10	0.96	0	8,9,11	0.95	0
9	FME	ac	1	9	8,9,10	1.00	0	8,9,11	0.66	0
9	FME	ae	1	9	8,9,10	0.97	0	8,9,11	0.88	0
9	FME	ak	1	9	8,9,10	0.98	0	8,9,11	0.93	0
1	FME	AM	1	1	8,9,10	0.96	0	8,9,11	0.96	1 (12%)
1	FME	AL	1	1	8,9,10	0.95	0	8,9,11	0.98	1 (12%)
1	FME	AS	1	1	8,9,10	1.00	0	8,9,11	0.85	0
1	FME	AQ	1	1	8,9,10	0.95	0	8,9,11	1.05	1 (12%)
9	FME	ai	1	9	8,9,10	0.96	0	8,9,11	1.09	1 (12%)
1	FME	AX	1	1	8,9,10	0.99	0	8,9,11	0.84	0
1	FME	AR	1	1	8,9,10	0.99	0	8,9,11	0.78	0
9	FME	ap	1	9	8,9,10	0.90	0	8,9,11	1.28	2 (25%)
1	FME	AF	1	1	8,9,10	0.97	0	8,9,11	0.89	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	FME	AI	1	1	-	1/7/9/11	-
1	FME	AG	1	1	-	2/7/9/11	-
9	FME	ah	1	9	-	0/7/9/11	-
1	FME	AJ	1	1	-	2/7/9/11	-
1	FME	AC	1	1	-	1/7/9/11	-
1	FME	AV	1	1	-	2/7/9/11	-
1	FME	AD	1	1	-	0/7/9/11	-
9	FME	af	1	9	-	0/7/9/11	-
1	FME	AN	1	1	-	0/7/9/11	-

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

There are no bond length outliers.

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	1	FME	C-CA-N	2.81	114.92	109.50
9	ab	1	FME	CA-N-CN	2.63	126.86	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AD	1	FME	C-CA-N	2.59	114.50	109.50
1	AO	1	FME	C-CA-N	2.48	114.28	109.50
1	AV	1	FME	C-CA-N	2.44	114.21	109.50
9	ap	1	FME	CA-N-CN	2.44	126.57	122.82
9	ai	1	FME	C-CA-N	2.41	114.15	109.50
1	AK	1	FME	C-CA-N	2.41	114.15	109.50
9	aj	1	FME	C-CA-N	2.37	114.07	109.50
9	ad	1	FME	C-CA-N	2.36	114.06	109.50
9	ao	1	FME	C-CA-N	2.33	114.00	109.50
1	AP	1	FME	C-CA-N	2.32	113.97	109.50
1	AB	1	FME	C-CA-N	2.30	113.93	109.50
5	H1	1	FME	C-CA-N	2.29	113.92	109.50
9	ap	1	FME	C-CA-N	2.26	113.86	109.50
1	AO	1	FME	CA-N-CN	2.26	126.29	122.82
1	AT	1	FME	C-CA-N	2.25	113.84	109.50
1	AC	1	FME	C-CA-N	2.25	113.84	109.50
1	AQ	1	FME	C-CA-N	2.23	113.81	109.50
9	ah	1	FME	C-CA-N	2.22	113.79	109.50
1	AD	1	FME	CA-N-CN	2.20	126.21	122.82
1	AJ	1	FME	C-CA-N	2.20	113.74	109.50
9	an	1	FME	C-CA-N	2.19	113.72	109.50
1	AL	1	FME	C-CA-N	2.17	113.68	109.50
1	AM	1	FME	C-CA-N	2.15	113.64	109.50
9	af	1	FME	C-CA-N	2.13	113.62	109.50
9	am	1	FME	C-CA-N	2.10	113.55	109.50
1	AU	1	FME	C-CA-N	2.10	113.54	109.50
9	aa	1	FME	C-CA-N	2.09	113.54	109.50
1	AW	1	FME	C-CA-N	2.09	113.54	109.50
1	AN	1	FME	CA-N-CN	2.07	126.01	122.82
1	AH	1	FME	C-CA-N	2.06	113.47	109.50

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
9	ag	1	FME	O-C-CA-CB
9	ak	1	FME	O-C-CA-CB

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Mol	Chain	Res	Type	Atoms
9	al	1	FME	O-C-CA-CB
9	an	1	FME	C-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	an	1	FME	N-CA-CB-CG
9	ap	1	FME	N-CA-CB-CG
9	ak	1	FME	CA-CB-CG-SD
1	AR	1	FME	C-CA-CB-CG
5	H1	1	FME	N-CA-CB-CG
1	AL	1	FME	N-CA-CB-CG
1	AR	1	FME	N-CA-CB-CG
1	AV	1	FME	CA-CB-CG-SD
1	AV	1	FME	N-CA-CB-CG
8	M	1	FME	N-CA-CB-CG
9	ab	1	FME	CA-CB-CG-SD
9	aa	1	FME	C-CA-CB-CG
9	ab	1	FME	C-CA-CB-CG
1	AO	1	FME	C-CA-CB-CG
9	al	1	FME	CB-CA-N-CN
8	M	1	FME	CB-CG-SD-CE
1	AG	1	FME	CA-CB-CG-SD
1	AJ	1	FME	N-CA-CB-CG
9	ae	1	FME	N-CA-CB-CG
9	al	1	FME	CA-CB-CG-SD
1	AO	1	FME	N-CA-CB-CG

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	0.82	1 (9%)	15,15,17	1.05	1 (6%)
10	RAM	CG	2	10	10,10,11	1.67	3 (30%)	14,14,16	1.02	1 (7%)
10	MAN	MG	1	8,10,17	11,11,12	0.75	0	15,15,17	0.96	1 (6%)
10	RAM	MG	2	10	10,10,11	1.63	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	8,10,17	-	0/2/19/22	0/1/1/1
10	RAM	MG	2	10	-	-	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	CG	2	RAM	O5-C1	3.97	1.50	1.43
10	MG	2	RAM	O5-C1	3.66	1.49	1.43
10	MG	2	RAM	C2-C3	-2.49	1.48	1.52
10	CG	2	RAM	C2-C3	-2.22	1.49	1.52
10	CG	2	RAM	O5-C5	2.11	1.47	1.43
10	CG	1	MAN	O5-C1	-2.07	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	3.88	115.72	109.81
10	MG	2	RAM	C6-C5-C4	-3.82	106.10	113.08
10	MG	2	RAM	O5-C5-C4	3.68	116.18	109.55
10	CG	1	MAN	C1-O5-C5	2.96	116.15	112.19
10	MG	1	MAN	C1-O5-C5	2.30	115.28	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	CG	2	RAM	C6-C5-C4	-2.04	109.34	113.08

There are no chirality outliers.

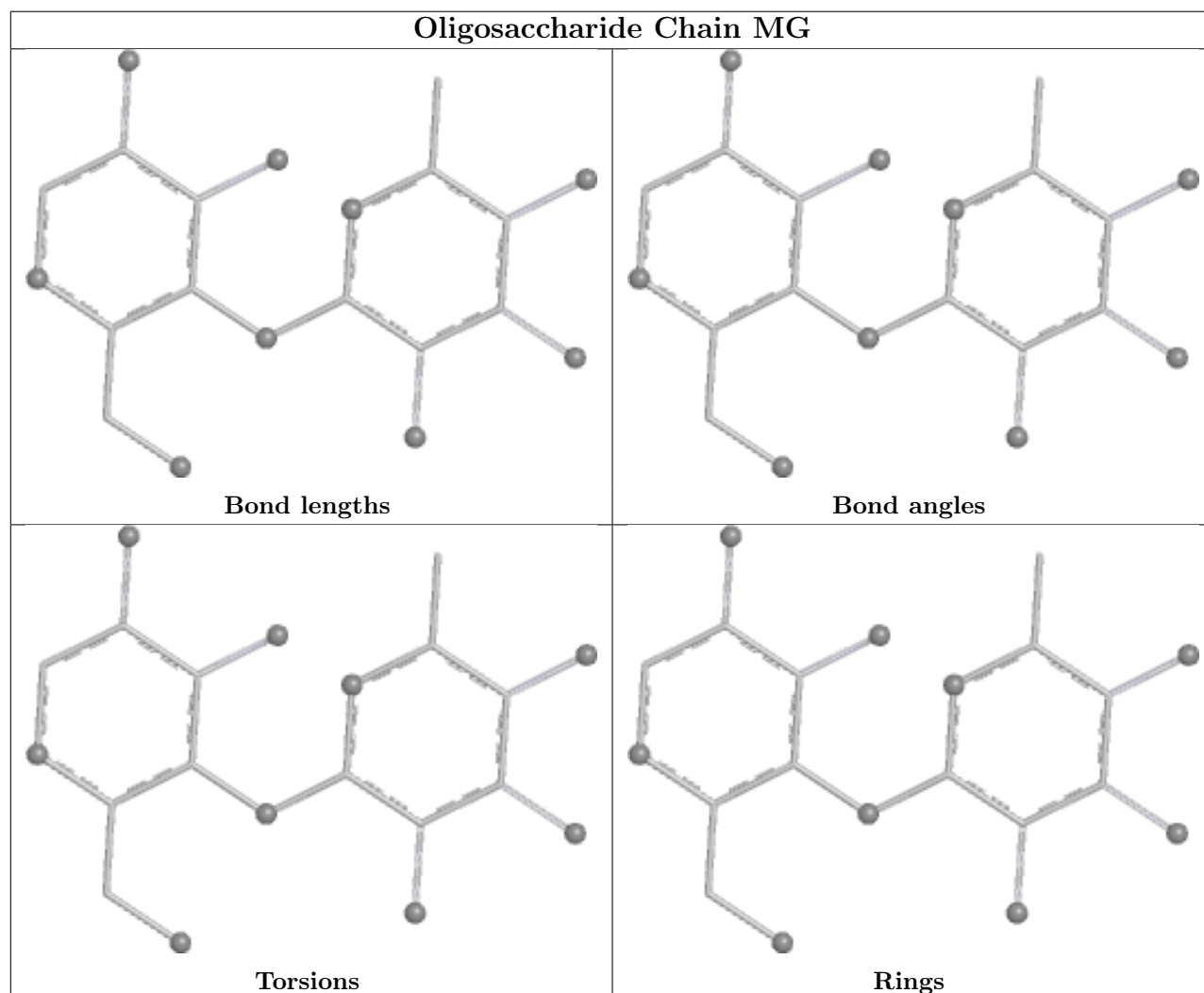
All (2) torsion outliers are listed below:

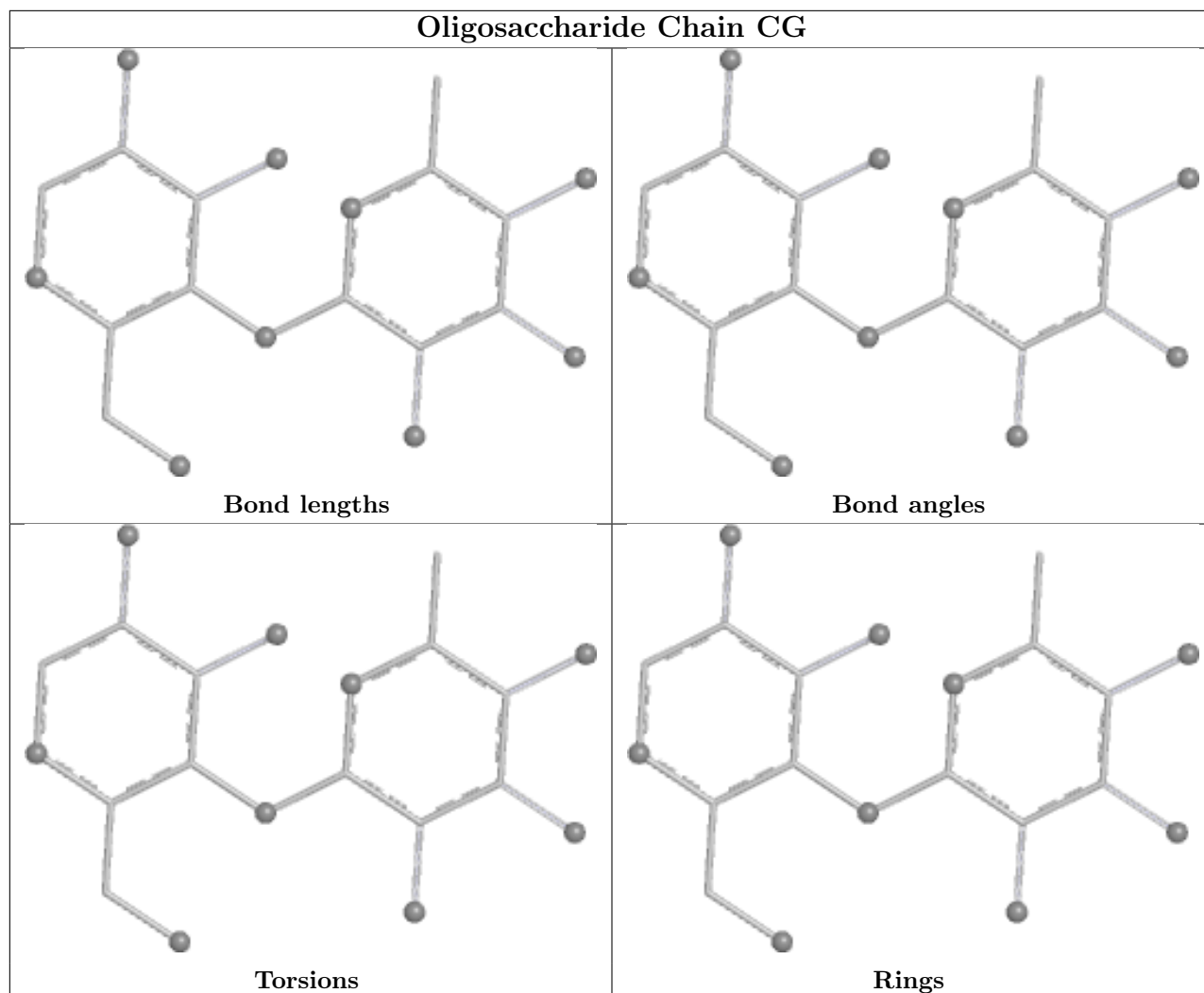
Mol	Chain	Res	Type	Atoms
10	CG	1	MAN	O5-C5-C6-O6
10	CG	1	MAN	C4-C5-C6-O6

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	be	101	-	36,36,36	1.06	4 (11%)	47,47,47	0.91	2 (4%)
13	V7N	BH	1001	-	44,44,44	1.67	7 (15%)	48,54,54	1.56	11 (22%)
11	BCL	BD	103	-	64,74,74	1.66	6 (9%)	74,115,115	1.45	11 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
11	BCL	AC	1001	-	64,74,74	1.66	6 (9%)	74,115,115	1.42	9 (12%)
12	LMT	BT	1005	-	36,36,36	1.06	4 (11%)	47,47,47	0.99	2 (4%)
12	LMT	bj	102	-	36,36,36	1.06	4 (11%)	47,47,47	0.95	2 (4%)
12	LMT	H2	201	-	36,36,36	1.06	4 (11%)	47,47,47	0.92	1 (2%)
12	LMT	BG	1004	-	36,36,36	1.05	4 (11%)	47,47,47	0.88	2 (4%)
13	V7N	BO	1001	-	44,44,44	1.67	7 (15%)	48,54,54	1.66	12 (25%)
12	LMT	BK	1003	-	36,36,36	1.07	4 (11%)	47,47,47	0.87	1 (2%)
13	V7N	be	102	-	44,44,44	1.67	7 (15%)	48,54,54	1.72	11 (22%)
11	BCL	AB	105	-	64,74,74	1.69	6 (9%)	74,115,115	1.41	11 (14%)
11	BCL	ao	102	-	64,74,74	1.66	6 (9%)	74,115,115	1.45	10 (13%)
13	V7N	bf	101	-	44,44,44	1.66	7 (15%)	48,54,54	1.59	10 (20%)
11	BCL	AW	103	-	64,74,74	1.71	6 (9%)	74,115,115	1.61	13 (17%)
13	V7N	BT	1001	-	44,44,44	1.67	8 (18%)	48,54,54	1.56	8 (16%)
11	BCL	af	102	-	64,74,74	1.67	6 (9%)	74,115,115	1.47	10 (13%)
20	MQ8	ao	101	-	54,54,54	0.64	0	67,69,69	1.00	2 (2%)
12	LMT	bk	1001	-	36,36,36	1.08	4 (11%)	47,47,47	0.87	1 (2%)
13	V7N	af	103	-	44,44,44	1.68	7 (15%)	48,54,54	1.71	12 (25%)
13	V7N	ba	102	-	44,44,44	1.72	7 (15%)	48,54,54	1.62	11 (22%)
11	BCL	BV	1002	-	64,74,74	1.66	6 (9%)	74,115,115	1.42	10 (13%)
14	0V9	bk	1003	-	44,44,46	0.77	1 (2%)	47,49,51	0.95	2 (4%)
11	BCL	AK	102	-	64,74,74	1.66	6 (9%)	74,115,115	1.43	9 (12%)
11	BCL	L	303	-	64,74,74	1.59	6 (9%)	74,115,115	1.39	10 (13%)
11	BCL	AL	103	-	64,74,74	1.68	6 (9%)	74,115,115	1.74	15 (20%)
12	LMT	bn	103	-	36,36,36	1.03	4 (11%)	47,47,47	1.23	5 (10%)
13	V7N	BE	101	-	44,44,44	1.67	6 (13%)	48,54,54	1.59	11 (22%)
11	BCL	ae	101	-	64,74,74	1.70	6 (9%)	74,115,115	1.48	9 (12%)
13	V7N	bc	101	-	44,44,44	1.67	7 (15%)	48,54,54	1.56	9 (18%)
12	LMT	BU	1004	-	36,36,36	1.05	4 (11%)	47,47,47	1.07	4 (8%)
11	BCL	ac	1002	-	64,74,74	1.66	6 (9%)	74,115,115	1.44	10 (13%)
24	V7B	af	101	-	59,59,59	0.90	3 (5%)	75,75,75	1.09	5 (6%)
12	LMT	AH	105	-	36,36,36	1.08	4 (11%)	47,47,47	0.94	2 (4%)
12	LMT	AI	102	-	36,36,36	1.03	4 (11%)	47,47,47	0.83	1 (2%)
14	0V9	AQ	105	-	44,44,46	0.76	1 (2%)	47,49,51	0.80	1 (2%)
11	BCL	AO	101	-	64,74,74	1.64	6 (9%)	74,115,115	1.43	9 (12%)
12	LMT	BD	105	-	36,36,36	1.08	4 (11%)	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	AP	103	-	36,36,36	1.07	4 (11%)	47,47,47	0.89	0
12	LMT	AD	103	-	36,36,36	1.05	4 (11%)	47,47,47	0.94	3 (6%)
12	LMT	BO	1003	-	36,36,36	1.07	4 (11%)	47,47,47	0.91	1 (2%)
12	LMT	BU	1003	-	36,36,36	1.07	4 (11%)	47,47,47	0.92	2 (4%)
12	LMT	BO	1002	-	36,36,36	1.03	3 (8%)	47,47,47	0.88	1 (2%)
13	V7N	BV	1001	-	44,44,44	1.68	7 (15%)	48,54,54	1.72	12 (25%)
12	LMT	BA	102	-	36,36,36	1.04	4 (11%)	47,47,47	0.91	1 (2%)
11	BCL	ai	101	-	64,74,74	1.68	6 (9%)	74,115,115	1.46	10 (13%)
12	LMT	bi	101	-	36,36,36	1.09	4 (11%)	47,47,47	1.01	4 (8%)
11	BCL	AP	101	26	64,74,74	1.69	7 (10%)	74,115,115	1.63	12 (16%)
12	LMT	BH	1005	-	36,36,36	1.07	4 (11%)	47,47,47	0.92	1 (2%)
16	NDG	C	405	17	14,14,15	0.66	0	17,19,21	1.10	1 (5%)
16	NDG	C1	301	17	14,14,15	0.67	0	17,19,21	1.07	2 (11%)
12	LMT	L	307	-	36,36,36	1.04	4 (11%)	47,47,47	1.00	3 (6%)
21	BPH	M	404	-	51,70,70	0.88	1 (1%)	52,101,101	1.08	8 (15%)
13	V7N	BW	1001	-	44,44,44	1.65	7 (15%)	48,54,54	1.57	11 (22%)
11	BCL	AG	101	-	64,74,74	1.64	6 (9%)	74,115,115	1.42	9 (12%)
13	V7N	bn	101	-	44,44,44	1.72	7 (15%)	48,54,54	1.55	9 (18%)
12	LMT	L	305	-	36,36,36	1.08	4 (11%)	47,47,47	0.84	1 (2%)
11	BCL	am	1001	-	64,74,74	1.68	6 (9%)	74,115,115	1.46	10 (13%)
11	BCL	BW	1002	-	64,74,74	1.68	6 (9%)	74,115,115	1.66	13 (17%)
13	V7N	BJ	1001	-	44,44,44	1.65	8 (18%)	48,54,54	1.61	10 (20%)
13	V7N	BC	101	-	44,44,44	1.66	6 (13%)	48,54,54	1.55	11 (22%)
11	BCL	BA	103	-	64,74,74	1.67	6 (9%)	74,115,115	1.41	10 (13%)
11	BCL	AS	101	-	64,74,74	1.68	6 (9%)	74,115,115	1.47	11 (14%)
12	LMT	BL	1006	-	36,36,36	1.05	4 (11%)	47,47,47	1.03	2 (4%)
11	BCL	bo	105	-	64,74,74	1.66	6 (9%)	74,115,115	1.40	11 (14%)
11	BCL	BL	1005	-	64,74,74	1.65	6 (9%)	74,115,115	1.41	10 (13%)
11	BCL	bc	104	-	64,74,74	1.67	6 (9%)	74,115,115	1.48	12 (16%)
12	LMT	AE	106	-	36,36,36	1.06	4 (11%)	47,47,47	0.91	0
11	BCL	AK	103	26	64,74,74	1.75	7 (10%)	74,115,115	1.57	11 (14%)
12	LMT	BR	103	-	36,36,36	1.01	4 (11%)	47,47,47	0.92	1 (2%)
11	BCL	bp	104	-	64,74,74	1.70	6 (9%)	74,115,115	1.59	11 (14%)
11	BCL	BE	103	-	64,74,74	1.68	6 (9%)	74,115,115	1.48	12 (16%)
11	BCL	ak	101	-	64,74,74	1.67	6 (9%)	74,115,115	1.46	9 (12%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
11	BCL	AH	101	-	64,74,74	1.67	6 (9%)	74,115,115	1.41	9 (12%)
18	CD4	M	402	-	83,83,83	0.48	0	89,95,95	1.09	7 (7%)
11	BCL	AS	102	26	64,74,74	1.66	6 (9%)	74,115,115	1.46	11 (14%)
14	0V9	bc	103	-	44,44,46	0.77	1 (2%)	47,49,51	0.96	3 (6%)
11	BCL	BN	1004	-	64,74,74	1.67	6 (9%)	74,115,115	1.51	12 (16%)
12	LMT	AH	103	-	36,36,36	1.07	4 (11%)	47,47,47	0.95	2 (4%)
12	LMT	BV	1005	-	36,36,36	1.07	4 (11%)	47,47,47	0.93	3 (6%)
12	LMT	AL	101	-	36,36,36	1.05	4 (11%)	47,47,47	0.85	0
12	LMT	bf	102	-	36,36,36	1.04	4 (11%)	47,47,47	1.00	1 (2%)
12	LMT	BL	1002	-	36,36,36	1.08	4 (11%)	47,47,47	0.91	1 (2%)
14	0V9	AJ	104	-	44,44,46	0.75	1 (2%)	47,49,51	0.84	2 (4%)
12	LMT	BN	1005	-	36,36,36	1.04	5 (13%)	47,47,47	0.92	2 (4%)
12	LMT	AR	103	-	36,36,36	1.03	4 (11%)	47,47,47	0.94	2 (4%)
12	LMT	AK	101	-	36,36,36	1.04	4 (11%)	47,47,47	1.02	4 (8%)
12	LMT	AT	102	-	36,36,36	1.00	4 (11%)	47,47,47	1.12	3 (6%)
11	BCL	AV	102	26	64,74,74	1.68	6 (9%)	74,115,115	1.51	10 (13%)
12	LMT	BM	1005	-	36,36,36	1.04	4 (11%)	47,47,47	0.87	1 (2%)
13	V7N	bd	101	-	44,44,44	1.67	7 (15%)	48,54,54	1.64	12 (25%)
12	LMT	BW	1003	-	36,36,36	1.06	4 (11%)	47,47,47	1.10	3 (6%)
12	LMT	BM	1002	-	36,36,36	1.04	4 (11%)	47,47,47	1.02	2 (4%)
12	LMT	BF	101	-	36,36,36	1.06	4 (11%)	47,47,47	0.90	2 (4%)
13	V7N	BP	1001	-	44,44,44	1.67	7 (15%)	48,54,54	1.62	13 (27%)
11	BCL	ah	1001	-	64,74,74	1.71	6 (9%)	74,115,115	1.48	10 (13%)
18	CD4	M	409	-	83,83,83	0.47	0	89,95,95	1.03	5 (5%)
11	BCL	AN	102	26	64,74,74	1.71	7 (10%)	74,115,115	1.50	10 (13%)
13	V7N	BK	1001	-	44,44,44	1.65	6 (13%)	48,54,54	1.56	10 (20%)
11	BCL	BH	1004	-	64,74,74	1.66	6 (9%)	74,115,115	1.51	12 (16%)
12	LMT	BJ	1003	-	36,36,36	1.05	4 (11%)	47,47,47	0.91	1 (2%)
12	LMT	BI	104	-	36,36,36	1.05	4 (11%)	47,47,47	0.86	2 (4%)
11	BCL	AQ	101	26	64,74,74	1.72	7 (10%)	74,115,115	1.90	13 (17%)
12	LMT	BV	1004	-	36,36,36	1.06	4 (11%)	47,47,47	0.93	3 (6%)
14	0V9	H1	1002	-	44,44,46	0.77	1 (2%)	47,49,51	0.86	0
11	BCL	AJ	102	-	64,74,74	1.65	6 (9%)	74,115,115	1.45	9 (12%)
11	BCL	AP	102	-	64,74,74	1.65	6 (9%)	74,115,115	1.50	11 (14%)
12	LMT	AW	102	-	36,36,36	1.09	4 (11%)	47,47,47	0.87	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	BC	104	-	36,36,36	1.05	4 (11%)	47,47,47	1.01	1 (2%)
12	LMT	BO	1004	-	36,36,36	1.07	4 (11%)	47,47,47	0.85	1 (2%)
12	LMT	BK	1004	-	36,36,36	1.03	4 (11%)	47,47,47	1.04	3 (6%)
12	LMT	bi	104	-	36,36,36	1.06	4 (11%)	47,47,47	0.87	1 (2%)
15	HEC	C	403	3	32,50,50	1.91	3 (9%)	30,82,82	2.34	8 (26%)
11	BCL	AT	101	-	64,74,74	1.66	6 (9%)	74,115,115	1.43	9 (12%)
11	BCL	ag	102	-	64,74,74	1.67	6 (9%)	74,115,115	1.44	9 (12%)
12	LMT	BC	102	-	36,36,36	1.07	4 (11%)	47,47,47	0.88	1 (2%)
12	LMT	BR	101	-	36,36,36	1.05	4 (11%)	47,47,47	0.91	0
12	LMT	ac	1001	-	36,36,36	1.06	4 (11%)	47,47,47	0.93	3 (6%)
11	BCL	al	1001	-	64,74,74	1.67	6 (9%)	74,115,115	1.43	9 (12%)
12	LMT	BS	1005	-	36,36,36	1.07	4 (11%)	47,47,47	0.87	1 (2%)
12	LMT	BB	102	-	36,36,36	1.07	4 (11%)	47,47,47	0.90	2 (4%)
24	V7B	ag	103	-	59,59,59	0.89	4 (6%)	75,75,75	1.01	4 (5%)
11	BCL	aa	1001	-	64,74,74	1.67	6 (9%)	74,115,115	1.44	9 (12%)
12	LMT	BP	1003	-	36,36,36	1.05	4 (11%)	47,47,47	1.01	2 (4%)
11	BCL	BU	1001	-	64,74,74	1.65	6 (9%)	74,115,115	1.41	10 (13%)
11	BCL	M	406	-	64,74,74	1.64	6 (9%)	74,115,115	1.42	11 (14%)
12	LMT	BP	1004	-	36,36,36	1.05	4 (11%)	47,47,47	0.95	1 (2%)
12	LMT	AV	103	-	36,36,36	1.06	4 (11%)	47,47,47	0.95	2 (4%)
11	BCL	AM	102	-	64,74,74	1.64	6 (9%)	74,115,115	1.44	9 (12%)
11	BCL	bi	106	-	64,74,74	1.66	6 (9%)	74,115,115	1.44	11 (14%)
14	0V9	bi	105	-	44,44,46	0.76	1 (2%)	47,49,51	0.99	3 (6%)
11	BCL	AL	102	-	64,74,74	1.67	6 (9%)	74,115,115	1.45	9 (12%)
14	0V9	bo	104	-	44,44,46	0.76	1 (2%)	47,49,51	0.89	2 (4%)
15	HEC	C	401	3	32,50,50	1.89	3 (9%)	30,82,82	2.15	7 (23%)
12	LMT	BM	1003	-	36,36,36	1.07	4 (11%)	47,47,47	0.94	1 (2%)
12	LMT	AK	104	-	36,36,36	1.06	4 (11%)	47,47,47	1.00	2 (4%)
11	BCL	AJ	101	26	64,74,74	1.71	7 (10%)	74,115,115	1.66	13 (17%)
11	BCL	bd	103	-	64,74,74	1.69	6 (9%)	74,115,115	1.54	14 (18%)
12	LMT	AJ	103	-	36,36,36	1.06	4 (11%)	47,47,47	0.88	1 (2%)
12	LMT	BQ	1003	-	36,36,36	1.07	4 (11%)	47,47,47	0.84	0
11	BCL	AW	101	-	64,74,74	1.65	6 (9%)	74,115,115	1.46	9 (12%)
13	V7N	AT	103	-	44,44,44	1.68	7 (15%)	48,54,54	1.52	9 (18%)
11	BCL	AN	103	-	64,74,74	1.64	6 (9%)	74,115,115	1.43	9 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
13	V7N	BN	1001	-	44,44,44	1.65	7 (15%)	48,54,54	1.60	10 (20%)
13	V7N	bj	101	-	44,44,44	1.66	6 (13%)	48,54,54	1.56	9 (18%)
12	LMT	BX	102	-	36,36,36	1.05	4 (11%)	47,47,47	0.92	3 (6%)
13	V7N	BL	1001	-	44,44,44	1.65	8 (18%)	48,54,54	1.61	11 (22%)
12	LMT	BT	1003	-	36,36,36	1.01	4 (11%)	47,47,47	0.96	3 (6%)
11	BCL	AA	1001	-	64,74,74	1.65	6 (9%)	74,115,115	1.44	9 (12%)
11	BCL	bm	103	-	64,74,74	1.65	6 (9%)	74,115,115	1.41	11 (14%)
12	LMT	BG	1005	-	36,36,36	1.07	4 (11%)	47,47,47	0.81	1 (2%)
11	BCL	AB	102	26	64,74,74	1.70	6 (9%)	74,115,115	1.51	11 (14%)
11	BCL	bk	1002	-	64,74,74	1.67	6 (9%)	74,115,115	1.53	13 (17%)
11	BCL	BR	102	-	64,74,74	1.66	6 (9%)	74,115,115	1.51	12 (16%)
12	LMT	BP	1005	-	36,36,36	1.07	5 (13%)	47,47,47	1.00	4 (8%)
12	LMT	BD	104	-	36,36,36	1.06	4 (11%)	47,47,47	0.85	0
12	LMT	BE	104	-	36,36,36	1.07	4 (11%)	47,47,47	1.29	6 (12%)
11	BCL	BQ	1002	-	64,74,74	1.66	6 (9%)	74,115,115	1.48	11 (14%)
11	BCL	BP	1002	-	64,74,74	1.65	6 (9%)	74,115,115	1.49	11 (14%)
13	V7N	AE	101	-	44,44,44	1.69	7 (15%)	48,54,54	1.44	6 (12%)
11	BCL	AQ	102	-	64,74,74	1.66	6 (9%)	74,115,115	1.44	9 (12%)
12	LMT	AN	101	-	36,36,36	1.05	4 (11%)	47,47,47	0.93	2 (4%)
13	V7N	BG	1001	-	44,44,44	1.66	8 (18%)	48,54,54	1.56	8 (16%)
11	BCL	an	1001	-	64,74,74	1.67	6 (9%)	74,115,115	1.44	10 (13%)
11	BCL	AD	101	26	64,74,74	1.69	6 (9%)	74,115,115	1.60	14 (18%)
11	BCL	AX	101	-	64,74,74	1.66	7 (10%)	74,115,115	1.45	9 (12%)
12	LMT	BC	103	-	36,36,36	1.06	4 (11%)	47,47,47	0.82	2 (4%)
14	0V9	bi	103	-	44,44,46	0.76	1 (2%)	47,49,51	0.86	1 (2%)
12	LMT	BA	104	-	36,36,36	1.05	4 (11%)	47,47,47	0.87	0
17	V75	C	406	16,10	18,18,18	1.59	4 (22%)	21,25,25	1.72	3 (14%)
12	LMT	BE	102	-	36,36,36	1.05	4 (11%)	47,47,47	1.01	1 (2%)
12	LMT	BA	105	-	36,36,36	1.05	4 (11%)	47,47,47	1.09	2 (4%)
12	LMT	AT	104	-	36,36,36	1.05	4 (11%)	47,47,47	1.05	1 (2%)
11	BCL	AI	103	-	64,74,74	1.66	6 (9%)	74,115,115	1.44	10 (13%)
12	LMT	BT	1004	-	36,36,36	1.08	4 (11%)	47,47,47	0.85	0
11	BCL	bg	1002	-	64,74,74	1.68	6 (9%)	74,115,115	1.46	11 (14%)
12	LMT	bo	101	-	36,36,36	1.05	4 (11%)	47,47,47	0.85	1 (2%)
12	LMT	BV	1003	-	36,36,36	1.03	4 (11%)	47,47,47	0.91	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	BS	1003	-	36,36,36	1.03	4 (11%)	47,47,47	0.92	1 (2%)
12	LMT	BL	1003	-	36,36,36	1.08	4 (11%)	47,47,47	0.96	2 (4%)
12	LMT	bm	102	-	36,36,36	1.05	4 (11%)	47,47,47	0.89	2 (4%)
11	BCL	AM	101	26	64,74,74	1.70	7 (10%)	74,115,115	1.69	14 (18%)
19	PGW	H1	1003	-	50,50,50	0.46	0	53,56,56	0.94	3 (5%)
12	LMT	BN	1003	-	36,36,36	1.06	4 (11%)	47,47,47	1.01	2 (4%)
12	LMT	BQ	1004	-	36,36,36	1.05	4 (11%)	47,47,47	0.92	1 (2%)
12	LMT	BW	1004	-	36,36,36	1.06	4 (11%)	47,47,47	1.00	3 (6%)
11	BCL	be	105	-	64,74,74	1.65	6 (9%)	74,115,115	1.39	11 (14%)
12	LMT	AQ	103	-	36,36,36	1.06	4 (11%)	47,47,47	0.98	2 (4%)
12	LMT	bp	102	-	36,36,36	1.04	4 (11%)	47,47,47	0.88	2 (4%)
11	BCL	BI	102	-	64,74,74	1.66	6 (9%)	74,115,115	1.47	10 (13%)
11	BCL	BF	102	-	64,74,74	1.66	6 (9%)	74,115,115	1.43	10 (13%)
13	V7N	bl	101	-	44,44,44	1.68	7 (15%)	48,54,54	1.70	14 (29%)
11	BCL	AU	102	-	64,74,74	1.65	6 (9%)	74,115,115	1.42	9 (12%)
14	0V9	bb	102	-	44,44,46	0.75	1 (2%)	47,49,51	0.85	1 (2%)
18	CD4	ae	102	-	83,83,83	0.49	0	89,95,95	1.14	7 (7%)
14	0V9	bd	104	-	44,44,46	0.76	1 (2%)	47,49,51	0.94	3 (6%)
17	V75	M	410	16,10	18,18,18	1.62	5 (27%)	21,25,25	1.72	2 (9%)
12	LMT	BD	102	-	36,36,36	1.05	4 (11%)	47,47,47	0.88	0
12	LMT	BJ	1002	-	36,36,36	1.03	4 (11%)	47,47,47	0.92	2 (4%)
11	BCL	bj	104	-	64,74,74	1.67	6 (9%)	74,115,115	1.53	12 (16%)
12	LMT	BL	1004	-	36,36,36	1.04	4 (11%)	47,47,47	0.95	1 (2%)
12	LMT	M	408	-	36,36,36	1.05	4 (11%)	47,47,47	0.94	3 (6%)
11	BCL	BS	1006	-	64,74,74	1.74	7 (10%)	74,115,115	1.82	13 (17%)
13	V7N	BM	1001	-	44,44,44	1.66	6 (13%)	48,54,54	1.76	14 (29%)
12	LMT	AA	1003	-	36,36,36	1.07	4 (11%)	47,47,47	1.08	3 (6%)
18	CD4	ag	101	-	83,83,83	0.47	0	89,95,95	1.07	4 (4%)
12	LMT	AN	104	-	36,36,36	1.05	4 (11%)	47,47,47	0.92	2 (4%)
11	BCL	AF	101	-	64,74,74	1.71	7 (10%)	74,115,115	1.51	11 (14%)
11	BCL	AR	101	-	64,74,74	1.67	7 (10%)	74,115,115	1.50	11 (14%)
12	LMT	BH	1002	-	36,36,36	1.08	4 (11%)	47,47,47	0.99	2 (4%)
11	BCL	AV	104	26	64,74,74	1.73	8 (12%)	74,115,115	1.69	14 (18%)
14	0V9	bb	104	-	44,44,46	0.75	1 (2%)	47,49,51	0.86	2 (4%)
12	LMT	bg	1001	-	36,36,36	1.09	4 (11%)	47,47,47	0.84	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
12	LMT	BF	103	-	36,36,36	1.05	4 (11%)	47,47,47	0.95	2 (4%)
12	LMT	AS	103	-	36,36,36	1.08	4 (11%)	47,47,47	1.04	3 (6%)
11	BCL	ad	102	-	64,74,74	1.67	6 (9%)	74,115,115	1.48	9 (12%)
12	LMT	BB	103	-	36,36,36	1.06	4 (11%)	47,47,47	0.78	1 (2%)
20	MQ8	M	407	-	54,54,54	0.64	0	67,69,69	0.72	1 (1%)
11	BCL	BO	1005	-	64,74,74	1.65	6 (9%)	74,115,115	1.41	10 (13%)
11	BCL	AN	105	-	64,74,74	1.73	6 (9%)	74,115,115	1.49	11 (14%)
11	BCL	AA	1002	26	64,74,74	1.72	7 (10%)	74,115,115	1.51	11 (14%)
18	CD4	H1	1001	-	83,83,83	0.48	0	89,95,95	1.02	5 (5%)
25	UYH	ai	102	-	55,55,55	2.15	15 (27%)	63,63,63	1.19	6 (9%)
12	LMT	BI	105	-	36,36,36	1.06	4 (11%)	47,47,47	0.93	2 (4%)
13	V7N	AW	104	-	44,44,44	1.68	7 (15%)	48,54,54	1.61	11 (22%)
12	LMT	BB	104	-	36,36,36	1.06	4 (11%)	47,47,47	1.09	2 (4%)
12	LMT	be	103	-	36,36,36	1.08	4 (11%)	47,47,47	0.85	1 (2%)
12	LMT	BK	1002	-	36,36,36	1.06	4 (11%)	47,47,47	0.94	2 (4%)
13	V7N	bh	101	-	44,44,44	1.67	7 (15%)	48,54,54	1.58	10 (20%)
11	BCL	ab	101	-	64,74,74	1.67	6 (9%)	74,115,115	1.95	12 (16%)
11	BCL	BC	105	-	64,74,74	1.67	6 (9%)	74,115,115	1.47	11 (14%)
13	V7N	BQ	1001	-	44,44,44	1.66	7 (15%)	48,54,54	1.67	13 (27%)
12	LMT	BG	1002	-	36,36,36	1.05	4 (11%)	47,47,47	1.02	3 (6%)
11	BCL	L	304	-	64,74,74	1.67	6 (9%)	74,115,115	1.42	10 (13%)
12	LMT	BI	103	-	36,36,36	1.05	4 (11%)	47,47,47	1.04	2 (4%)
13	V7N	bp	101	-	44,44,44	1.69	7 (15%)	48,54,54	1.65	12 (25%)
11	BCL	BJ	1004	-	64,74,74	1.63	6 (9%)	74,115,115	1.45	10 (13%)
12	LMT	bd	102	-	36,36,36	1.05	4 (11%)	47,47,47	0.86	1 (2%)
13	V7N	bi	102	-	44,44,44	1.68	7 (15%)	48,54,54	1.60	12 (25%)
12	LMT	bb	105	-	36,36,36	1.06	4 (11%)	47,47,47	0.92	2 (4%)
13	V7N	AB	101	-	44,44,44	1.68	8 (18%)	48,54,54	1.63	14 (29%)
11	BCL	AV	101	-	64,74,74	1.65	6 (9%)	74,115,115	1.41	9 (12%)
12	LMT	bo	103	-	36,36,36	1.07	4 (11%)	47,47,47	0.94	1 (2%)
12	LMT	AL	104	-	36,36,36	1.05	4 (11%)	47,47,47	0.96	1 (2%)
11	BCL	AB	103	-	64,74,74	1.65	6 (9%)	74,115,115	1.52	12 (16%)
11	BCL	ba	103	-	64,74,74	1.68	6 (9%)	74,115,115	1.40	10 (13%)
12	LMT	AG	103	-	36,36,36	1.07	4 (11%)	47,47,47	1.02	3 (6%)
12	LMT	BD	101	-	36,36,36	1.04	4 (11%)	47,47,47	1.03	3 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
14	0V9	bp	103	-	44,44,46	0.77	1 (2%)	47,49,51	0.87	3 (6%)
14	0V9	bm	104	-	44,44,46	0.77	1 (2%)	47,49,51	0.89	2 (4%)
11	BCL	AU	101	-	64,74,74	1.69	6 (9%)	74,115,115	1.52	13 (17%)
13	V7N	bb	101	-	44,44,44	1.68	7 (15%)	48,54,54	1.59	11 (22%)
21	BPH	L	309	-	51,70,70	0.89	1 (1%)	52,101,101	1.13	8 (15%)
11	BCL	AR	102	-	64,74,74	1.65	6 (9%)	74,115,115	1.44	9 (12%)
14	0V9	bl	103	-	44,44,46	0.76	1 (2%)	47,49,51	0.93	2 (4%)
12	LMT	BA	101	-	36,36,36	1.04	4 (11%)	47,47,47	0.93	1 (2%)
11	BCL	AS	104	26	64,74,74	1.71	7 (10%)	74,115,115	1.67	15 (20%)
11	BCL	BT	1002	-	64,74,74	1.68	6 (9%)	74,115,115	1.52	12 (16%)
12	LMT	BI	101	-	36,36,36	1.06	4 (11%)	47,47,47	0.91	1 (2%)
12	LMT	L	308	-	36,36,36	1.04	4 (11%)	47,47,47	0.87	1 (2%)
11	BCL	AG	102	26	64,74,74	1.69	7 (10%)	74,115,115	1.65	13 (17%)
14	0V9	bf	104	-	44,44,46	0.75	1 (2%)	47,49,51	0.88	3 (6%)
11	BCL	BK	1005	-	64,74,74	1.70	6 (9%)	74,115,115	1.55	12 (16%)
12	LMT	AB	104	-	36,36,36	1.06	4 (11%)	47,47,47	1.03	2 (4%)
11	BCL	aj	102	-	64,74,74	1.69	6 (9%)	74,115,115	1.46	10 (13%)
12	LMT	BR	104	-	36,36,36	1.05	4 (11%)	47,47,47	1.02	2 (4%)
12	LMT	L	301	-	36,36,36	1.11	4 (11%)	47,47,47	0.85	0
11	BCL	BM	1004	-	64,74,74	1.66	6 (9%)	74,115,115	1.50	12 (16%)
11	BCL	M	403	-	64,74,74	1.69	6 (9%)	74,115,115	1.50	10 (13%)
11	BCL	bl	104	-	64,74,74	1.71	7 (10%)	74,115,115	1.50	10 (13%)
12	LMT	BU	1002	-	36,36,36	1.03	4 (11%)	47,47,47	1.04	2 (4%)
15	HEC	C	402	3	32,50,50	1.90	3 (9%)	30,82,82	2.32	8 (26%)
14	0V9	be	104	-	44,44,46	0.76	1 (2%)	47,49,51	0.97	3 (6%)
11	BCL	BB	105	-	64,74,74	1.67	6 (9%)	74,115,115	1.48	10 (13%)
14	0V9	aj	101	-	44,44,46	0.76	1 (2%)	47,49,51	0.83	1 (2%)
11	BCL	bb	103	-	64,74,74	1.66	6 (9%)	74,115,115	1.57	12 (16%)
12	LMT	ba	101	-	36,36,36	1.04	4 (11%)	47,47,47	0.93	1 (2%)
13	V7N	AH	104	-	44,44,44	1.67	7 (15%)	48,54,54	1.71	13 (27%)
11	BCL	AE	103	-	64,74,74	1.64	6 (9%)	74,115,115	1.45	9 (12%)
11	BCL	BG	1003	-	64,74,74	1.67	6 (9%)	74,115,115	1.46	11 (14%)
12	LMT	bc	102	-	36,36,36	1.07	4 (11%)	47,47,47	0.83	1 (2%)
11	BCL	AH	102	26	64,74,74	1.71	7 (10%)	74,115,115	1.59	15 (20%)
14	0V9	bn	102	-	44,44,46	0.76	1 (2%)	47,49,51	0.83	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
11	BCL	ap	1001	-	64,74,74	1.70	6 (9%)	74,115,115	1.52	10 (13%)
13	V7N	AQ	104	-	44,44,44	1.67	8 (18%)	48,54,54	1.75	14 (29%)
12	LMT	BS	1002	-	36,36,36	1.06	4 (11%)	47,47,47	0.91	1 (2%)
12	LMT	bl	102	-	36,36,36	1.04	4 (11%)	47,47,47	1.08	2 (4%)
11	BCL	BX	103	-	64,74,74	1.65	6 (9%)	74,115,115	1.45	10 (13%)
12	LMT	AM	103	-	36,36,36	1.05	4 (11%)	47,47,47	0.95	2 (4%)
12	LMT	BN	1002	-	36,36,36	1.03	4 (11%)	47,47,47	0.85	1 (2%)
13	V7N	AE	105	-	44,44,44	1.66	8 (18%)	48,54,54	1.62	9 (18%)
23	CRT	M	405	-	43,43,43	0.60	0	48,54,54	0.88	3 (6%)
13	V7N	BS	1001	-	44,44,44	1.65	6 (13%)	48,54,54	1.69	12 (25%)
13	V7N	bm	101	-	44,44,44	1.68	7 (15%)	48,54,54	1.59	11 (22%)
11	BCL	bf	103	-	64,74,74	1.69	6 (9%)	74,115,115	1.52	13 (17%)
11	BCL	AF	102	-	64,74,74	1.66	6 (9%)	74,115,115	1.43	9 (12%)
11	BCL	bn	104	-	64,74,74	1.68	6 (9%)	74,115,115	1.39	11 (14%)
11	BCL	bh	102	-	64,74,74	1.67	7 (10%)	74,115,115	1.45	11 (14%)
15	HEC	C	404	3	32,50,50	1.94	3 (9%)	30,82,82	2.22	8 (26%)
11	BCL	AI	101	-	64,74,74	1.69	6 (9%)	74,115,115	1.64	14 (18%)
12	LMT	AE	104	-	36,36,36	1.05	4 (11%)	47,47,47	0.97	2 (4%)
14	0V9	L	310	-	44,44,46	0.76	1 (2%)	47,49,51	0.83	2 (4%)
11	BCL	AE	102	-	64,74,74	1.68	7 (10%)	74,115,115	1.55	15 (20%)
12	LMT	L	306	-	36,36,36	1.08	4 (11%)	47,47,47	0.98	2 (4%)
18	CD4	ad	101	-	83,83,83	0.49	0	89,95,95	1.03	6 (6%)
13	V7N	aj	103	-	44,44,44	1.69	8 (18%)	48,54,54	1.69	13 (27%)
20	MQ8	L	302	-	54,54,54	0.66	0	67,69,69	0.71	1 (1%)
12	LMT	BF	104	-	36,36,36	1.06	4 (11%)	47,47,47	1.13	4 (8%)
12	LMT	BH	1003	-	36,36,36	1.04	4 (11%)	47,47,47	0.95	1 (2%)
14	0V9	bj	103	-	44,44,46	0.75	1 (2%)	47,49,51	0.86	2 (4%)
13	V7N	BB	101	-	44,44,44	1.66	8 (18%)	48,54,54	1.51	10 (20%)
13	V7N	bo	102	-	44,44,44	1.70	8 (18%)	48,54,54	1.61	12 (25%)
11	BCL	AD	102	-	64,74,74	1.65	6 (9%)	74,115,115	1.50	11 (14%)
12	LMT	BS	1004	-	36,36,36	1.05	4 (11%)	47,47,47	0.92	2 (4%)
12	LMT	BX	101	-	36,36,36	1.06	4 (11%)	47,47,47	0.90	2 (4%)

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	be	101	-	-	3/21/61/61	0/2/2/2
13	V7N	BH	1001	-	-	4/53/53/53	-
11	BCL	BD	103	-	-	4/37/137/137	-
11	BCL	AC	1001	-	-	4/37/137/137	-
12	LMT	BT	1005	-	-	4/21/61/61	0/2/2/2
12	LMT	bj	102	-	-	4/21/61/61	0/2/2/2
12	LMT	H2	201	-	-	4/21/61/61	0/2/2/2
12	LMT	BG	1004	-	-	2/21/61/61	0/2/2/2
13	V7N	BO	1001	-	-	8/53/53/53	-
12	LMT	BK	1003	-	-	2/21/61/61	0/2/2/2
13	V7N	be	102	-	-	4/53/53/53	-
11	BCL	AB	105	-	-	6/37/137/137	-
11	BCL	ao	102	-	-	6/37/137/137	-
13	V7N	bf	101	-	-	5/53/53/53	-
11	BCL	AW	103	-	-	8/37/137/137	-
13	V7N	BT	1001	-	-	3/53/53/53	-
11	BCL	af	102	-	-	7/37/137/137	-
20	MQ8	ao	101	-	-	10/47/67/67	0/2/2/2
12	LMT	bk	1001	-	-	7/21/61/61	0/2/2/2
13	V7N	af	103	-	-	7/53/53/53	-
13	V7N	ba	102	-	-	7/53/53/53	-
11	BCL	BV	1002	-	-	7/37/137/137	-
14	0V9	bk	1003	-	-	16/48/48/50	-
11	BCL	AK	102	-	-	0/37/137/137	-
11	BCL	L	303	-	-	1/37/137/137	-
11	BCL	AL	103	-	-	7/37/137/137	-
12	LMT	bn	103	-	-	8/21/61/61	0/2/2/2
13	V7N	BE	101	-	-	5/53/53/53	-
11	BCL	ae	101	-	-	7/37/137/137	-
13	V7N	bc	101	-	-	6/53/53/53	-
12	LMT	BU	1004	-	-	5/21/61/61	0/2/2/2
11	BCL	ac	1002	-	-	3/37/137/137	-
24	V7B	af	101	-	-	7/48/88/88	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	AH	105	-	-	7/21/61/61	0/2/2/2
12	LMT	AI	102	-	-	3/21/61/61	0/2/2/2
14	0V9	AQ	105	-	-	10/48/48/50	-
11	BCL	AO	101	-	-	1/37/137/137	-
12	LMT	BD	105	-	-	4/21/61/61	0/2/2/2
12	LMT	AP	103	-	-	7/21/61/61	0/2/2/2
12	LMT	AD	103	-	-	5/21/61/61	0/2/2/2
12	LMT	BO	1003	-	-	5/21/61/61	0/2/2/2
12	LMT	BU	1003	-	-	2/21/61/61	0/2/2/2
12	LMT	BO	1002	-	-	4/21/61/61	0/2/2/2
13	V7N	BV	1001	-	-	4/53/53/53	-
12	LMT	BA	102	-	-	5/21/61/61	0/2/2/2
11	BCL	ai	101	-	-	5/37/137/137	-
12	LMT	bi	101	-	-	1/21/61/61	0/2/2/2
11	BCL	AP	101	26	-	4/37/137/137	-
12	LMT	BH	1005	-	-	5/21/61/61	0/2/2/2
16	NDG	C	405	17	-	0/6/23/26	0/1/1/1
16	NDG	C1	301	17	-	0/6/23/26	0/1/1/1
12	LMT	L	307	-	-	2/21/61/61	0/2/2/2
21	BPH	M	404	-	-	5/37/105/105	0/5/6/6
13	V7N	BW	1001	-	-	6/53/53/53	-
11	BCL	AG	101	-	-	1/37/137/137	-
13	V7N	bn	101	-	-	8/53/53/53	-
12	LMT	L	305	-	-	1/21/61/61	0/2/2/2
11	BCL	am	1001	-	-	8/37/137/137	-
11	BCL	BW	1002	-	-	6/37/137/137	-
13	V7N	BJ	1001	-	-	3/53/53/53	-
13	V7N	BC	101	-	-	6/53/53/53	-
11	BCL	BA	103	-	-	5/37/137/137	-
11	BCL	AS	101	-	-	3/37/137/137	-
12	LMT	BL	1006	-	-	5/21/61/61	0/2/2/2
11	BCL	bo	105	-	-	4/37/137/137	-
11	BCL	BL	1005	-	-	7/37/137/137	-
11	BCL	bc	104	-	-	6/37/137/137	-
12	LMT	AE	106	-	-	3/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	AK	103	26	-	10/37/137/137	-
12	LMT	BR	103	-	-	7/21/61/61	0/2/2/2
11	BCL	bp	104	-	-	8/37/137/137	-
11	BCL	BE	103	-	-	8/37/137/137	-
11	BCL	ak	101	-	-	11/37/137/137	-
11	BCL	AH	101	-	-	0/37/137/137	-
18	CD4	M	402	-	-	15/94/94/94	-
11	BCL	AS	102	26	-	7/37/137/137	-
14	0V9	bc	103	-	-	12/48/48/50	-
11	BCL	BN	1004	-	-	8/37/137/137	-
12	LMT	AH	103	-	-	6/21/61/61	0/2/2/2
12	LMT	BV	1005	-	-	2/21/61/61	0/2/2/2
12	LMT	AL	101	-	-	5/21/61/61	0/2/2/2
12	LMT	bf	102	-	-	8/21/61/61	0/2/2/2
12	LMT	BL	1002	-	-	5/21/61/61	0/2/2/2
14	0V9	AJ	104	-	-	19/48/48/50	-
12	LMT	BN	1005	-	-	1/21/61/61	0/2/2/2
12	LMT	AR	103	-	-	6/21/61/61	0/2/2/2
12	LMT	AK	101	-	-	6/21/61/61	0/2/2/2
12	LMT	AT	102	-	-	6/21/61/61	0/2/2/2
11	BCL	AV	102	26	-	3/37/137/137	-
12	LMT	BM	1005	-	-	4/21/61/61	0/2/2/2
13	V7N	bd	101	-	-	4/53/53/53	-
12	LMT	BW	1003	-	-	4/21/61/61	0/2/2/2
12	LMT	BM	1002	-	-	5/21/61/61	0/2/2/2
12	LMT	BF	101	-	-	4/21/61/61	0/2/2/2
13	V7N	BP	1001	-	-	5/53/53/53	-
11	BCL	ah	1001	-	-	5/37/137/137	-
18	CD4	M	409	-	-	20/94/94/94	-
11	BCL	AN	102	26	-	3/37/137/137	-
13	V7N	BK	1001	-	-	6/53/53/53	-
11	BCL	BH	1004	-	-	5/37/137/137	-
12	LMT	BJ	1003	-	-	2/21/61/61	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	AQ	101	26	-	7/37/137/137	-
12	LMT	BV	1004	-	-	3/21/61/61	0/2/2/2
14	0V9	H1	1002	-	-	10/48/48/50	-
11	BCL	AJ	102	-	-	4/37/137/137	-
11	BCL	AP	102	-	-	5/37/137/137	-
12	LMT	AW	102	-	-	1/21/61/61	0/2/2/2
12	LMT	BC	104	-	-	4/21/61/61	0/2/2/2
12	LMT	BO	1004	-	-	2/21/61/61	0/2/2/2
12	LMT	BK	1004	-	-	6/21/61/61	0/2/2/2
12	LMT	bi	104	-	-	4/21/61/61	0/2/2/2
15	HEC	C	403	3	-	0/10/54/54	-
11	BCL	AT	101	-	-	0/37/137/137	-
11	BCL	ag	102	-	-	3/37/137/137	-
12	LMT	BC	102	-	-	1/21/61/61	0/2/2/2
12	LMT	BR	101	-	-	5/21/61/61	0/2/2/2
12	LMT	ac	1001	-	-	4/21/61/61	0/2/2/2
11	BCL	al	1001	-	-	4/37/137/137	-
12	LMT	BS	1005	-	-	4/21/61/61	0/2/2/2
12	LMT	BB	102	-	-	1/21/61/61	0/2/2/2
24	V7B	ag	103	-	-	13/48/88/88	0/2/2/2
11	BCL	aa	1001	-	-	4/37/137/137	-
12	LMT	BP	1003	-	-	5/21/61/61	0/2/2/2
11	BCL	BU	1001	-	-	6/37/137/137	-
11	BCL	M	406	-	-	3/37/137/137	-
12	LMT	BP	1004	-	-	0/21/61/61	0/2/2/2
12	LMT	AV	103	-	-	7/21/61/61	0/2/2/2
11	BCL	AM	102	-	-	2/37/137/137	-
11	BCL	bi	106	-	-	10/37/137/137	-
14	0V9	bi	105	-	-	9/48/48/50	-
11	BCL	AL	102	-	-	6/37/137/137	-
14	0V9	bo	104	-	-	10/48/48/50	-
15	HEC	C	401	3	-	2/10/54/54	-
12	LMT	BM	1003	-	-	2/21/61/61	0/2/2/2
12	LMT	AK	104	-	-	5/21/61/61	0/2/2/2
11	BCL	AJ	101	26	-	5/37/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	bd	103	-	-	10/37/137/137	-
12	LMT	AJ	103	-	-	6/21/61/61	0/2/2/2
12	LMT	BQ	1003	-	-	5/21/61/61	0/2/2/2
11	BCL	AW	101	-	-	2/37/137/137	-
13	V7N	AT	103	-	-	8/53/53/53	-
11	BCL	AN	103	-	-	4/37/137/137	-
13	V7N	BN	1001	-	-	4/53/53/53	-
13	V7N	bj	101	-	-	7/53/53/53	-
12	LMT	BX	102	-	-	7/21/61/61	0/2/2/2
13	V7N	BL	1001	-	-	4/53/53/53	-
12	LMT	BT	1003	-	-	7/21/61/61	0/2/2/2
11	BCL	AA	1001	-	-	1/37/137/137	-
11	BCL	bm	103	-	-	7/37/137/137	-
12	LMT	BG	1005	-	-	1/21/61/61	0/2/2/2
11	BCL	AB	102	26	-	3/37/137/137	-
11	BCL	bk	1002	-	-	7/37/137/137	-
11	BCL	BR	102	-	-	4/37/137/137	-
12	LMT	BP	1005	-	-	5/21/61/61	0/2/2/2
12	LMT	BD	104	-	-	5/21/61/61	0/2/2/2
12	LMT	BE	104	-	-	4/21/61/61	0/2/2/2
11	BCL	BQ	1002	-	-	7/37/137/137	-
11	BCL	BP	1002	-	-	7/37/137/137	-
13	V7N	AE	101	-	-	1/53/53/53	-
11	BCL	AQ	102	-	-	2/37/137/137	-
12	LMT	AN	101	-	-	8/21/61/61	0/2/2/2
13	V7N	BG	1001	-	-	2/53/53/53	-
11	BCL	an	1001	-	-	3/37/137/137	-
11	BCL	AD	101	26	-	11/37/137/137	-
11	BCL	AX	101	-	-	4/37/137/137	-
12	LMT	BC	103	-	-	2/21/61/61	0/2/2/2
14	0V9	bi	103	-	-	9/48/48/50	-
12	LMT	BA	104	-	-	6/21/61/61	0/2/2/2
17	V75	C	406	16,10	-	0/12/29/29	0/1/1/1
12	LMT	BE	102	-	-	5/21/61/61	0/2/2/2
12	LMT	BA	105	-	-	6/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	AT	104	-	-	7/21/61/61	0/2/2/2
11	BCL	AI	103	-	-	2/37/137/137	-
12	LMT	BT	1004	-	-	5/21/61/61	0/2/2/2
11	BCL	bg	1002	-	-	7/37/137/137	-
12	LMT	bo	101	-	-	1/21/61/61	0/2/2/2
12	LMT	BV	1003	-	-	4/21/61/61	0/2/2/2
12	LMT	BS	1003	-	-	6/21/61/61	0/2/2/2
12	LMT	BL	1003	-	-	5/21/61/61	0/2/2/2
12	LMT	bm	102	-	-	2/21/61/61	0/2/2/2
11	BCL	AM	101	26	-	5/37/137/137	-
19	PGW	H1	1003	-	-	17/55/55/55	-
12	LMT	BN	1003	-	-	5/21/61/61	0/2/2/2
12	LMT	BQ	1004	-	-	0/21/61/61	0/2/2/2
12	LMT	BW	1004	-	-	4/21/61/61	0/2/2/2
11	BCL	be	105	-	-	4/37/137/137	-
12	LMT	AQ	103	-	-	4/21/61/61	0/2/2/2
12	LMT	bp	102	-	-	4/21/61/61	0/2/2/2
11	BCL	BI	102	-	-	9/37/137/137	-
11	BCL	BF	102	-	-	10/37/137/137	-
13	V7N	bl	101	-	-	7/53/53/53	-
11	BCL	AU	102	-	-	2/37/137/137	-
14	0V9	bb	102	-	-	11/48/48/50	-
18	CD4	ae	102	-	-	23/94/94/94	-
14	0V9	bd	104	-	-	7/48/48/50	-
17	V75	M	410	16,10	-	0/12/29/29	0/1/1/1
12	LMT	BD	102	-	-	1/21/61/61	0/2/2/2
12	LMT	BJ	1002	-	-	8/21/61/61	0/2/2/2
11	BCL	bj	104	-	-	7/37/137/137	-
12	LMT	BL	1004	-	-	4/21/61/61	0/2/2/2
12	LMT	M	408	-	-	4/21/61/61	0/2/2/2
11	BCL	BS	1006	-	-	7/37/137/137	-
13	V7N	BM	1001	-	-	4/53/53/53	-
12	LMT	AA	1003	-	-	8/21/61/61	0/2/2/2
18	CD4	ag	101	-	-	16/94/94/94	-
12	LMT	AN	104	-	-	0/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	AF	101	-	-	8/37/137/137	-
11	BCL	AR	101	-	-	7/37/137/137	-
12	LMT	BH	1002	-	-	3/21/61/61	0/2/2/2
11	BCL	AV	104	26	-	10/37/137/137	-
14	0V9	bb	104	-	-	5/48/48/50	-
12	LMT	bg	1001	-	-	8/21/61/61	0/2/2/2
12	LMT	BF	103	-	-	7/21/61/61	0/2/2/2
12	LMT	AS	103	-	-	8/21/61/61	0/2/2/2
11	BCL	ad	102	-	-	7/37/137/137	-
12	LMT	BB	103	-	-	3/21/61/61	0/2/2/2
20	MQ8	M	407	-	-	3/47/67/67	0/2/2/2
11	BCL	BO	1005	-	-	6/37/137/137	-
11	BCL	AN	105	-	-	6/37/137/137	-
11	BCL	AA	1002	26	-	5/37/137/137	-
18	CD4	H1	1001	-	-	23/94/94/94	-
25	UYH	ai	102	-	-	11/50/70/70	0/1/1/1
12	LMT	BI	105	-	-	1/21/61/61	0/2/2/2
13	V7N	AW	104	-	-	6/53/53/53	-
12	LMT	BB	104	-	-	3/21/61/61	0/2/2/2
12	LMT	be	103	-	-	5/21/61/61	0/2/2/2
12	LMT	BK	1002	-	-	6/21/61/61	0/2/2/2
13	V7N	bh	101	-	-	5/53/53/53	-
11	BCL	ab	101	-	-	6/37/137/137	-
11	BCL	BC	105	-	-	1/37/137/137	-
13	V7N	BQ	1001	-	-	8/53/53/53	-
12	LMT	BG	1002	-	-	8/21/61/61	0/2/2/2
11	BCL	L	304	-	-	3/37/137/137	-
12	LMT	BI	103	-	-	7/21/61/61	0/2/2/2
13	V7N	bp	101	-	-	5/53/53/53	-
11	BCL	BJ	1004	-	-	7/37/137/137	-
12	LMT	bd	102	-	-	7/21/61/61	0/2/2/2
13	V7N	bi	102	-	-	5/53/53/53	-
12	LMT	bb	105	-	-	6/21/61/61	0/2/2/2
13	V7N	AB	101	-	-	5/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	AV	101	-	-	2/37/137/137	-
12	LMT	bo	103	-	-	9/21/61/61	0/2/2/2
12	LMT	AL	104	-	-	7/21/61/61	0/2/2/2
11	BCL	AB	103	-	-	1/37/137/137	-
11	BCL	ba	103	-	-	2/37/137/137	-
12	LMT	AG	103	-	-	8/21/61/61	0/2/2/2
12	LMT	BD	101	-	-	8/21/61/61	0/2/2/2
14	0V9	bp	103	-	-	12/48/48/50	-
14	0V9	bm	104	-	-	12/48/48/50	-
11	BCL	AU	101	-	-	4/37/137/137	-
13	V7N	bb	101	-	-	10/53/53/53	-
21	BPH	L	309	-	-	3/37/105/105	0/5/6/6
11	BCL	AR	102	-	-	5/37/137/137	-
14	0V9	bl	103	-	-	8/48/48/50	-
12	LMT	BA	101	-	-	4/21/61/61	0/2/2/2
11	BCL	AS	104	26	-	4/37/137/137	-
11	BCL	BT	1002	-	-	7/37/137/137	-
12	LMT	BI	101	-	-	5/21/61/61	0/2/2/2
12	LMT	L	308	-	-	3/21/61/61	0/2/2/2
11	BCL	AG	102	26	-	8/37/137/137	-
14	0V9	bf	104	-	-	13/48/48/50	-
11	BCL	BK	1005	-	-	6/37/137/137	-
12	LMT	AB	104	-	-	2/21/61/61	0/2/2/2
11	BCL	aj	102	-	-	7/37/137/137	-
12	LMT	BR	104	-	-	6/21/61/61	0/2/2/2
12	LMT	L	301	-	-	3/21/61/61	0/2/2/2
11	BCL	BM	1004	-	-	3/37/137/137	-
11	BCL	M	403	-	-	2/37/137/137	-
11	BCL	bl	104	-	-	6/37/137/137	-
12	LMT	BU	1002	-	-	5/21/61/61	0/2/2/2
15	HEC	C	402	3	-	5/10/54/54	-
14	0V9	be	104	-	-	9/48/48/50	-
11	BCL	BB	105	-	-	8/37/137/137	-
14	0V9	aj	101	-	-	11/48/48/50	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	BCL	bb	103	-	-	9/37/137/137	-
12	LMT	ba	101	-	-	5/21/61/61	0/2/2/2
13	V7N	AH	104	-	-	6/53/53/53	-
11	BCL	AE	103	-	-	1/37/137/137	-
11	BCL	BG	1003	-	-	9/37/137/137	-
12	LMT	bc	102	-	-	6/21/61/61	0/2/2/2
11	BCL	AH	102	26	-	10/37/137/137	-
14	0V9	bn	102	-	-	11/48/48/50	-
11	BCL	ap	1001	-	-	5/37/137/137	-
13	V7N	AQ	104	-	-	6/53/53/53	-
12	LMT	BS	1002	-	-	5/21/61/61	0/2/2/2
12	LMT	bl	102	-	-	5/21/61/61	0/2/2/2
11	BCL	BX	103	-	-	7/37/137/137	-
12	LMT	AM	103	-	-	5/21/61/61	0/2/2/2
12	LMT	BN	1002	-	-	4/21/61/61	0/2/2/2
13	V7N	AE	105	-	-	7/53/53/53	-
23	CRT	M	405	-	-	6/51/51/51	-
13	V7N	BS	1001	-	-	4/53/53/53	-
13	V7N	bm	101	-	-	4/53/53/53	-
11	BCL	bf	103	-	-	8/37/137/137	-
11	BCL	AF	102	-	-	3/37/137/137	-
11	BCL	bn	104	-	-	9/37/137/137	-
11	BCL	bh	102	-	-	12/37/137/137	-
15	HEC	C	404	3	-	4/10/54/54	-
11	BCL	AI	101	-	-	7/37/137/137	-
12	LMT	AE	104	-	-	5/21/61/61	0/2/2/2
14	0V9	L	310	-	-	9/48/48/50	-
11	BCL	AE	102	-	-	11/37/137/137	-
12	LMT	L	306	-	-	4/21/61/61	0/2/2/2
18	CD4	ad	101	-	-	15/94/94/94	-
13	V7N	aj	103	-	-	5/53/53/53	-
20	MQ8	L	302	-	-	10/47/67/67	0/2/2/2
12	LMT	BF	104	-	-	6/21/61/61	0/2/2/2
12	LMT	BH	1003	-	-	4/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	0V9	bj	103	-	-	9/48/48/50	-
13	V7N	BB	101	-	-	9/53/53/53	-
13	V7N	bo	102	-	-	8/53/53/53	-
11	BCL	AD	102	-	-	1/37/137/137	-
12	LMT	BS	1004	-	-	5/21/61/61	0/2/2/2
12	LMT	BX	101	-	-	4/21/61/61	0/2/2/2

All (1509) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AK	103	BCL	CHC-C1C	9.04	1.41	1.33
11	AQ	101	BCL	CHC-C1C	8.97	1.41	1.33
11	ah	1001	BCL	CHC-C1C	8.78	1.41	1.33
11	M	403	BCL	CHC-C1C	8.78	1.41	1.33
11	AG	102	BCL	CHC-C1C	8.76	1.41	1.33
11	ae	101	BCL	CHC-C1C	8.71	1.41	1.33
11	AK	102	BCL	CHC-C1C	8.66	1.41	1.33
11	AB	102	BCL	CHC-C1C	8.66	1.41	1.33
11	aj	102	BCL	CHC-C1C	8.65	1.41	1.33
11	AP	101	BCL	CHC-C1C	8.64	1.41	1.33
11	AS	104	BCL	CHC-C1C	8.64	1.41	1.33
11	AN	105	BCL	CHC-C1C	8.64	1.41	1.33
11	AA	1002	BCL	CHC-C1C	8.62	1.41	1.33
11	AH	102	BCL	CHC-C1C	8.60	1.41	1.33
11	bl	104	BCL	CHC-C1C	8.57	1.41	1.33
11	AM	101	BCL	CHC-C1C	8.57	1.41	1.33
11	AN	102	BCL	CHC-C1C	8.56	1.41	1.33
11	af	102	BCL	CHC-C1C	8.55	1.41	1.33
11	AD	101	BCL	CHC-C1C	8.54	1.41	1.33
11	AI	103	BCL	CHC-C1C	8.54	1.41	1.33
11	ba	103	BCL	CHC-C1C	8.54	1.41	1.33
11	AH	101	BCL	CHC-C1C	8.54	1.41	1.33
11	AW	103	BCL	CHC-C1C	8.53	1.41	1.33
11	al	1001	BCL	CHC-C1C	8.53	1.41	1.33
11	bp	104	BCL	CHC-C1C	8.51	1.41	1.33
11	aa	1001	BCL	CHC-C1C	8.50	1.41	1.33
11	bb	103	BCL	CHC-C1C	8.50	1.41	1.33
11	AF	102	BCL	CHC-C1C	8.49	1.41	1.33
11	ap	1001	BCL	CHC-C1C	8.48	1.41	1.33
11	ad	102	BCL	CHC-C1C	8.47	1.40	1.33
11	bg	1002	BCL	CHC-C1C	8.47	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BW	1002	BCL	CHC-C1C	8.46	1.40	1.33
11	AA	1001	BCL	CHC-C1C	8.45	1.40	1.33
11	AR	101	BCL	CHC-C1C	8.44	1.40	1.33
11	AC	1001	BCL	CHC-C1C	8.44	1.40	1.33
11	AT	101	BCL	CHC-C1C	8.44	1.40	1.33
11	bn	104	BCL	CHC-C1C	8.43	1.40	1.33
11	ag	102	BCL	CHC-C1C	8.42	1.40	1.33
11	ak	101	BCL	CHC-C1C	8.41	1.40	1.33
11	L	304	BCL	CHC-C1C	8.41	1.40	1.33
11	BE	103	BCL	CHC-C1C	8.40	1.40	1.33
11	AS	102	BCL	CHC-C1C	8.40	1.40	1.33
11	BR	102	BCL	CHC-C1C	8.39	1.40	1.33
11	bh	102	BCL	CHC-C1C	8.39	1.40	1.33
11	bf	103	BCL	CHC-C1C	8.38	1.40	1.33
11	AS	101	BCL	CHC-C1C	8.38	1.40	1.33
11	AJ	101	BCL	CHC-C1C	8.37	1.40	1.33
11	AV	104	BCL	CHC-C1C	8.37	1.40	1.33
11	bi	106	BCL	CHC-C1C	8.37	1.40	1.33
11	bj	104	BCL	CHC-C1C	8.37	1.40	1.33
11	BV	1002	BCL	CHC-C1C	8.36	1.40	1.33
11	AE	102	BCL	CHC-C1C	8.36	1.40	1.33
11	am	1001	BCL	CHC-C1C	8.35	1.40	1.33
11	ab	101	BCL	CHC-C1C	8.34	1.40	1.33
11	AL	102	BCL	CHC-C1C	8.34	1.40	1.33
11	AM	102	BCL	CHC-C1C	8.33	1.40	1.33
11	AI	101	BCL	CHC-C1C	8.33	1.40	1.33
11	AR	102	BCL	CHC-C1C	8.32	1.40	1.33
11	AE	103	BCL	CHC-C1C	8.32	1.40	1.33
11	AU	101	BCL	CHC-C1C	8.31	1.40	1.33
11	AX	101	BCL	CHC-C1C	8.31	1.40	1.33
11	an	1001	BCL	CHC-C1C	8.31	1.40	1.33
11	bd	103	BCL	CHC-C1C	8.30	1.40	1.33
11	AF	101	BCL	CHC-C1C	8.30	1.40	1.33
11	AQ	102	BCL	CHC-C1C	8.29	1.40	1.33
11	AJ	102	BCL	CHC-C1C	8.28	1.40	1.33
11	bm	103	BCL	CHC-C1C	8.28	1.40	1.33
11	ai	101	BCL	CHC-C1C	8.28	1.40	1.33
11	AL	103	BCL	CHC-C1C	8.27	1.40	1.33
11	bo	105	BCL	CHC-C1C	8.27	1.40	1.33
11	BF	102	BCL	CHC-C1C	8.27	1.40	1.33
11	AN	103	BCL	CHC-C1C	8.26	1.40	1.33
11	BT	1002	BCL	CHC-C1C	8.26	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BK	1005	BCL	CHC-C1C	8.25	1.40	1.33
11	BA	103	BCL	CHC-C1C	8.25	1.40	1.33
11	BQ	1002	BCL	CHC-C1C	8.24	1.40	1.33
11	ac	1002	BCL	CHC-C1C	8.24	1.40	1.33
11	bk	1002	BCL	CHC-C1C	8.24	1.40	1.33
11	AV	101	BCL	CHC-C1C	8.24	1.40	1.33
11	AP	102	BCL	CHC-C1C	8.24	1.40	1.33
11	ao	102	BCL	CHC-C1C	8.24	1.40	1.33
11	BB	105	BCL	CHC-C1C	8.22	1.40	1.33
11	AU	102	BCL	CHC-C1C	8.22	1.40	1.33
11	BN	1004	BCL	CHC-C1C	8.22	1.40	1.33
11	AO	101	BCL	CHC-C1C	8.21	1.40	1.33
11	BG	1003	BCL	CHC-C1C	8.21	1.40	1.33
11	bc	104	BCL	CHC-C1C	8.20	1.40	1.33
11	AW	101	BCL	CHC-C1C	8.20	1.40	1.33
11	AG	101	BCL	CHC-C1C	8.20	1.40	1.33
11	BS	1006	BCL	CHC-C1C	8.19	1.40	1.33
11	AV	102	BCL	CHC-C1C	8.19	1.40	1.33
11	be	105	BCL	CHC-C1C	8.18	1.40	1.33
11	BU	1001	BCL	CHC-C1C	8.17	1.40	1.33
11	BC	105	BCL	CHC-C1C	8.17	1.40	1.33
11	BI	102	BCL	CHC-C1C	8.11	1.40	1.33
11	BH	1004	BCL	CHC-C1C	8.07	1.40	1.33
11	BX	103	BCL	CHC-C1C	8.06	1.40	1.33
11	AB	105	BCL	CHC-C1C	8.05	1.40	1.33
11	BM	1004	BCL	CHC-C1C	8.03	1.40	1.33
11	AB	103	BCL	CHC-C1C	8.02	1.40	1.33
11	BP	1002	BCL	CHC-C1C	8.02	1.40	1.33
11	BL	1005	BCL	CHC-C1C	7.99	1.40	1.33
11	BD	103	BCL	CHC-C1C	7.97	1.40	1.33
11	BO	1005	BCL	CHC-C1C	7.96	1.40	1.33
11	BJ	1004	BCL	CHC-C1C	7.94	1.40	1.33
11	M	406	BCL	CHC-C1C	7.94	1.40	1.33
11	AD	102	BCL	CHC-C1C	7.77	1.40	1.33
11	L	303	BCL	CHC-C1C	7.69	1.40	1.33
13	bn	101	V7N	C28-C27	6.98	1.52	1.34
13	ba	102	V7N	C28-C27	6.96	1.52	1.34
13	AE	101	V7N	C28-C27	6.91	1.52	1.34
13	BH	1001	V7N	C28-C27	6.90	1.52	1.34
13	AW	104	V7N	C28-C27	6.90	1.52	1.34
13	BT	1001	V7N	C28-C27	6.90	1.52	1.34
13	BV	1001	V7N	C28-C27	6.88	1.52	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bi	102	V7N	C28-C27	6.87	1.52	1.34
13	bo	102	V7N	C28-C27	6.85	1.52	1.34
13	AT	103	V7N	C28-C27	6.84	1.52	1.34
13	BO	1001	V7N	C28-C27	6.84	1.52	1.34
13	BP	1001	V7N	C28-C27	6.83	1.52	1.34
13	AH	104	V7N	C28-C27	6.83	1.52	1.34
13	BG	1001	V7N	C28-C27	6.81	1.52	1.34
13	bb	101	V7N	C28-C27	6.80	1.52	1.34
13	be	102	V7N	C28-C27	6.79	1.52	1.34
13	bp	101	V7N	C28-C27	6.79	1.52	1.34
13	BB	101	V7N	C28-C27	6.78	1.52	1.34
13	BE	101	V7N	C28-C27	6.77	1.52	1.34
13	af	103	V7N	C28-C27	6.77	1.52	1.34
13	AB	101	V7N	C28-C27	6.76	1.52	1.34
13	bc	101	V7N	C28-C27	6.76	1.52	1.34
13	bh	101	V7N	C28-C27	6.74	1.52	1.34
13	bm	101	V7N	C28-C27	6.74	1.52	1.34
13	AQ	104	V7N	C28-C27	6.73	1.52	1.34
13	AE	105	V7N	C28-C27	6.72	1.52	1.34
13	BL	1001	V7N	C28-C27	6.72	1.52	1.34
13	aj	103	V7N	C28-C27	6.72	1.52	1.34
13	BM	1001	V7N	C28-C27	6.72	1.52	1.34
13	BS	1001	V7N	C28-C27	6.72	1.52	1.34
13	bd	101	V7N	C28-C27	6.71	1.52	1.34
13	BC	101	V7N	C28-C27	6.71	1.52	1.34
13	BJ	1001	V7N	C28-C27	6.71	1.52	1.34
13	bl	101	V7N	C28-C27	6.70	1.52	1.34
13	BN	1001	V7N	C28-C27	6.69	1.52	1.34
13	BK	1001	V7N	C28-C27	6.68	1.52	1.34
13	BW	1001	V7N	C28-C27	6.66	1.52	1.34
13	bj	101	V7N	C28-C27	6.63	1.52	1.34
13	bf	101	V7N	C28-C27	6.63	1.52	1.34
13	BQ	1001	V7N	C28-C27	6.61	1.51	1.34
11	BK	1005	BCL	CHB-C4A	6.17	1.38	1.33
11	AV	104	BCL	CHB-C4A	6.14	1.38	1.33
11	bp	104	BCL	CHB-C4A	6.05	1.38	1.33
11	BS	1006	BCL	CHB-C4A	6.03	1.38	1.33
11	bd	103	BCL	CHB-C4A	5.98	1.38	1.33
11	ai	101	BCL	CHB-C4A	5.96	1.38	1.33
11	bf	103	BCL	CHB-C4A	5.96	1.38	1.33
11	AM	101	BCL	CHB-C4A	5.94	1.38	1.33
11	AW	103	BCL	CHB-C4A	5.93	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	bk	1002	BCL	CHB-C4A	5.93	1.38	1.33
11	bc	104	BCL	CHB-C4A	5.93	1.38	1.33
11	AK	103	BCL	CHB-C4A	5.93	1.38	1.33
11	am	1001	BCL	CHB-C4A	5.93	1.38	1.33
11	BL	1005	BCL	CHB-C4A	5.92	1.38	1.33
11	BD	103	BCL	CHB-C4A	5.92	1.38	1.33
11	AA	1002	BCL	CHB-C4A	5.91	1.38	1.33
11	ap	1001	BCL	CHB-C4A	5.91	1.38	1.33
11	BH	1004	BCL	CHB-C4A	5.91	1.38	1.33
11	M	406	BCL	CHB-C4A	5.90	1.38	1.33
11	BM	1004	BCL	CHB-C4A	5.90	1.38	1.33
11	AE	102	BCL	CHB-C4A	5.90	1.38	1.33
11	BO	1005	BCL	CHB-C4A	5.90	1.38	1.33
11	AB	102	BCL	CHB-C4A	5.89	1.38	1.33
11	BB	105	BCL	CHB-C4A	5.89	1.38	1.33
11	bl	104	BCL	CHB-C4A	5.88	1.38	1.33
11	AJ	101	BCL	CHB-C4A	5.87	1.38	1.33
11	AU	101	BCL	CHB-C4A	5.87	1.38	1.33
11	aj	102	BCL	CHB-C4A	5.87	1.38	1.33
11	BP	1002	BCL	CHB-C4A	5.86	1.38	1.33
11	be	105	BCL	CHB-C4A	5.86	1.38	1.33
11	BG	1003	BCL	CHB-C4A	5.86	1.38	1.33
11	bg	1002	BCL	CHB-C4A	5.85	1.38	1.33
11	AV	102	BCL	CHB-C4A	5.84	1.38	1.33
11	AS	104	BCL	CHB-C4A	5.84	1.38	1.33
11	ac	1002	BCL	CHB-C4A	5.84	1.38	1.33
11	bh	102	BCL	CHB-C4A	5.84	1.38	1.33
11	AH	102	BCL	CHB-C4A	5.84	1.38	1.33
11	AB	103	BCL	CHB-C4A	5.83	1.38	1.33
11	BQ	1002	BCL	CHB-C4A	5.82	1.38	1.33
11	BA	103	BCL	CHB-C4A	5.82	1.38	1.33
11	BT	1002	BCL	CHB-C4A	5.82	1.38	1.33
11	BN	1004	BCL	CHB-C4A	5.81	1.38	1.33
11	AN	102	BCL	CHB-C4A	5.80	1.38	1.33
11	bn	104	BCL	CHB-C4A	5.80	1.38	1.33
11	ab	101	BCL	CHB-C4A	5.79	1.38	1.33
11	BJ	1004	BCL	CHB-C4A	5.79	1.38	1.33
11	ao	102	BCL	CHB-C4A	5.79	1.38	1.33
11	BF	102	BCL	CHB-C4A	5.78	1.38	1.33
11	bo	105	BCL	CHB-C4A	5.78	1.38	1.33
11	AF	101	BCL	CHB-C4A	5.77	1.38	1.33
11	AI	101	BCL	CHB-C4A	5.76	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BC	105	BCL	CHB-C4A	5.76	1.38	1.33
11	AD	101	BCL	CHB-C4A	5.75	1.38	1.33
11	AD	102	BCL	CHB-C4A	5.75	1.38	1.33
11	an	1001	BCL	CHB-C4A	5.75	1.38	1.33
11	BE	103	BCL	CHB-C4A	5.74	1.38	1.33
11	BI	102	BCL	CHB-C4A	5.72	1.38	1.33
11	bj	104	BCL	CHB-C4A	5.71	1.38	1.33
11	af	102	BCL	CHB-C4A	5.70	1.38	1.33
11	BV	1002	BCL	CHB-C4A	5.69	1.38	1.33
11	BX	103	BCL	CHB-C4A	5.69	1.38	1.33
11	BU	1001	BCL	CHB-C4A	5.69	1.38	1.33
11	AP	101	BCL	CHB-C4A	5.69	1.38	1.33
11	bi	106	BCL	CHB-C4A	5.68	1.38	1.33
11	ba	103	BCL	CHB-C4A	5.66	1.38	1.33
11	AS	102	BCL	CHB-C4A	5.64	1.38	1.33
11	AN	105	BCL	CHB-C4A	5.64	1.38	1.33
11	bb	103	BCL	CHB-C4A	5.64	1.38	1.33
11	AU	102	BCL	CHB-C4A	5.63	1.38	1.33
11	ag	102	BCL	CHB-C4A	5.63	1.38	1.33
11	ah	1001	BCL	CHB-C4A	5.63	1.38	1.33
11	ae	101	BCL	CHB-C4A	5.63	1.38	1.33
11	L	304	BCL	CHB-C4A	5.62	1.38	1.33
11	AQ	101	BCL	CHB-C4A	5.61	1.38	1.33
11	AH	101	BCL	CHB-C4A	5.61	1.38	1.33
11	ad	102	BCL	CHB-C4A	5.60	1.38	1.33
11	AW	101	BCL	CHB-C4A	5.58	1.38	1.33
11	ak	101	BCL	CHB-C4A	5.57	1.38	1.33
11	BW	1002	BCL	CHB-C4A	5.56	1.38	1.33
11	AR	101	BCL	CHB-C4A	5.53	1.38	1.33
11	aa	1001	BCL	CHB-C4A	5.53	1.38	1.33
11	bm	103	BCL	CHB-C4A	5.53	1.38	1.33
11	AV	101	BCL	CHB-C4A	5.52	1.38	1.33
11	AG	101	BCL	CHB-C4A	5.52	1.38	1.33
11	AB	105	BCL	CHB-C4A	5.52	1.38	1.33
11	BR	102	BCL	CHB-C4A	5.51	1.38	1.33
11	AM	102	BCL	CHB-C4A	5.51	1.38	1.33
11	AF	102	BCL	CHB-C4A	5.51	1.38	1.33
11	AG	102	BCL	CHB-C4A	5.51	1.38	1.33
11	L	303	BCL	CHB-C4A	5.51	1.38	1.33
11	AT	101	BCL	CHB-C4A	5.48	1.38	1.33
11	AP	102	BCL	CHB-C4A	5.48	1.38	1.33
11	AQ	102	BCL	CHB-C4A	5.47	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AL	103	BCL	CHB-C4A	5.47	1.38	1.33
11	AL	102	BCL	CHB-C4A	5.46	1.38	1.33
11	AJ	102	BCL	CHB-C4A	5.44	1.38	1.33
11	AS	101	BCL	CHB-C4A	5.43	1.38	1.33
11	al	1001	BCL	CHB-C4A	5.43	1.38	1.33
11	AR	102	BCL	CHB-C4A	5.42	1.38	1.33
11	AN	103	BCL	CHB-C4A	5.39	1.38	1.33
11	AO	101	BCL	CHB-C4A	5.39	1.38	1.33
11	AC	1001	BCL	CHB-C4A	5.38	1.38	1.33
11	AI	103	BCL	CHB-C4A	5.37	1.38	1.33
11	M	403	BCL	CHB-C4A	5.36	1.38	1.33
11	AX	101	BCL	CHB-C4A	5.30	1.38	1.33
11	AE	103	BCL	CHB-C4A	5.30	1.38	1.33
11	AA	1001	BCL	CHB-C4A	5.30	1.38	1.33
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
15	C	401	HEC	C3D-C2D	5.22	1.53	1.37
11	AK	102	BCL	CHB-C4A	5.21	1.37	1.33
11	AV	101	BCL	MG-NA	5.20	2.18	2.06
15	C	404	HEC	C2B-C3B	-5.20	1.34	1.40
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
15	C	404	HEC	C3C-C2C	-5.13	1.35	1.40
11	AC	1001	BCL	MG-NA	5.13	2.18	2.06
11	AL	102	BCL	MG-NA	5.12	2.18	2.06
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	bl	104	BCL	MG-NA	5.08	2.18	2.06
11	AU	102	BCL	MG-NA	5.08	2.18	2.06
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	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

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AJ	101	BCL	MG-NA	5.05	2.18	2.06
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
15	C	402	HEC	C3C-C2C	-5.02	1.35	1.40
11	AU	101	BCL	MG-NA	5.02	2.18	2.06
11	AT	101	BCL	MG-NA	5.01	2.18	2.06
11	AF	102	BCL	MG-NA	5.01	2.18	2.06
15	C	403	HEC	C3C-C2C	-5.01	1.35	1.40
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	AN	103	BCL	MG-NA	5.00	2.18	2.06
11	AE	103	BCL	MG-NA	4.99	2.18	2.06
11	AW	103	BCL	MG-NA	4.98	2.18	2.06
11	AV	102	BCL	MG-NA	4.98	2.18	2.06
11	AH	101	BCL	MG-NA	4.97	2.18	2.06
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	ad	102	BCL	MG-NA	4.95	2.18	2.06
11	AA	1002	BCL	MG-NA	4.94	2.18	2.06
11	ap	1001	BCL	MG-NA	4.94	2.18	2.06
15	C	402	HEC	C2B-C3B	-4.94	1.35	1.40
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	ao	102	BCL	MG-NA	4.92	2.18	2.06
15	C	403	HEC	C2B-C3B	-4.92	1.35	1.40
11	ai	101	BCL	MG-NA	4.91	2.17	2.06
15	C	401	HEC	C3C-C2C	-4.91	1.35	1.40
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	af	102	BCL	MG-NA	4.89	2.17	2.06
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	ab	101	BCL	MG-NA	4.87	2.17	2.06
11	ag	102	BCL	MG-NA	4.87	2.17	2.06
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)
11	BM	1004	BCL	MG-NA	4.86	2.17	2.06
11	BG	1003	BCL	MG-NA	4.85	2.17	2.06
11	BP	1002	BCL	MG-NA	4.85	2.17	2.06
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	bf	103	BCL	MG-NA	4.84	2.17	2.06
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	L	304	BCL	MG-NA	4.82	2.17	2.06
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	AG	102	BCL	MG-NA	4.80	2.17	2.06
11	BH	1004	BCL	MG-NA	4.80	2.17	2.06
11	BK	1005	BCL	MG-NA	4.80	2.17	2.06
11	BB	105	BCL	MG-NA	4.80	2.17	2.06
11	bb	103	BCL	MG-NA	4.80	2.17	2.06
11	AV	104	BCL	MG-NA	4.79	2.17	2.06
11	BT	1002	BCL	MG-NA	4.79	2.17	2.06
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	AM	101	BCL	MG-NA	4.76	2.17	2.06
15	C	401	HEC	C2B-C3B	-4.76	1.35	1.40
11	bm	103	BCL	MG-NA	4.75	2.17	2.06
11	bn	104	BCL	MG-NA	4.75	2.17	2.06
11	BI	102	BCL	MG-NA	4.74	2.17	2.06
11	bi	106	BCL	MG-NA	4.74	2.17	2.06
11	BX	103	BCL	MG-NA	4.74	2.17	2.06
11	AH	102	BCL	MG-NA	4.74	2.17	2.06
11	bp	104	BCL	MG-NA	4.72	2.17	2.06
11	BW	1002	BCL	MG-NA	4.72	2.17	2.06
11	L	303	BCL	MG-NA	4.72	2.17	2.06
11	AD	101	BCL	MG-NA	4.71	2.17	2.06
11	AS	102	BCL	MG-NA	4.70	2.17	2.06
11	M	406	BCL	MG-NA	4.70	2.17	2.06
11	BL	1005	BCL	MG-NA	4.69	2.17	2.06

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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	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
11	BA	103	BCL	MG-NA	4.65	2.17	2.06
11	AK	103	BCL	MG-NA	4.64	2.17	2.06
11	BU	1001	BCL	MG-NA	4.63	2.17	2.06
11	BR	102	BCL	MG-NA	4.62	2.17	2.06
11	AB	102	BCL	MG-NA	4.61	2.17	2.06
25	ai	102	UYH	O8-C28	4.53	1.46	1.33
25	ai	102	UYH	O7-C10	4.44	1.46	1.34
21	M	404	BPH	CBD-CGD	-4.29	1.47	1.52
21	L	309	BPH	CBD-CGD	-4.03	1.47	1.52
11	AB	105	BCL	MG-NC	3.99	2.15	2.06
11	AN	105	BCL	MG-NC	3.82	2.15	2.06
14	H1	1002	0V9	P-O2P	-3.82	1.37	1.50
14	bm	104	0V9	P-O2P	-3.81	1.37	1.50
14	aj	101	0V9	P-O2P	-3.78	1.37	1.50
14	bb	102	0V9	P-O2P	-3.77	1.37	1.50
14	bb	104	0V9	P-O2P	-3.77	1.37	1.50
14	bl	103	0V9	P-O2P	-3.77	1.37	1.50
14	AQ	105	0V9	P-O2P	-3.76	1.37	1.50
14	L	310	0V9	P-O2P	-3.76	1.37	1.50
14	bp	103	0V9	P-O2P	-3.76	1.37	1.50
14	bk	1003	0V9	P-O2P	-3.75	1.37	1.50
14	bi	105	0V9	P-O2P	-3.75	1.37	1.50
14	AJ	104	0V9	P-O2P	-3.75	1.37	1.50
14	bd	104	0V9	P-O2P	-3.75	1.37	1.50
14	bf	104	0V9	P-O2P	-3.74	1.37	1.50
14	bi	103	0V9	P-O2P	-3.74	1.37	1.50
14	bo	104	0V9	P-O2P	-3.74	1.37	1.50
14	bc	103	0V9	P-O2P	-3.74	1.37	1.50
14	bj	103	0V9	P-O2P	-3.73	1.37	1.50
14	bn	102	0V9	P-O2P	-3.73	1.37	1.50
14	be	104	0V9	P-O2P	-3.73	1.37	1.50
11	AF	101	BCL	MG-NC	3.72	2.15	2.06
25	ai	102	UYH	O1-C1	3.68	1.46	1.40
11	AD	102	BCL	MG-NC	3.63	2.14	2.06
11	AR	101	BCL	MG-NC	3.60	2.14	2.06
11	AL	103	BCL	MG-NC	3.58	2.14	2.06
11	AJ	102	BCL	MG-NC	3.58	2.14	2.06
11	AI	101	BCL	MG-NC	3.57	2.14	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AE	102	BCL	MG-NC	3.54	2.14	2.06
11	AX	101	BCL	MG-NC	3.53	2.14	2.06
11	AS	101	BCL	MG-NC	3.52	2.14	2.06
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
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
17	M	410	V75	O2-C2	-3.49	1.40	1.46
11	AO	101	BCL	MG-NC	3.48	2.14	2.06
11	bl	104	BCL	MG-NC	3.47	2.14	2.06
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
11	bf	103	BCL	MG-NC	3.44	2.14	2.06
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
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	bb	103	BCL	MG-NC	3.38	2.14	2.06
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
17	C	406	V75	O2-C2	-3.34	1.40	1.46
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
11	AH	102	BCL	MG-NC	3.32	2.14	2.06
11	bp	104	BCL	MG-NC	3.32	2.14	2.06
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BT	1002	BCL	MG-NC	3.30	2.14	2.06
11	BN	1004	BCL	MG-NC	3.29	2.14	2.06
25	ai	102	UYH	C29-C28	3.29	1.60	1.50
11	BC	105	BCL	MG-NC	3.28	2.14	2.06
11	BQ	1002	BCL	MG-NC	3.28	2.14	2.06
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
25	ai	102	UYH	C3-C2	3.25	1.60	1.52
25	ai	102	UYH	C4-C5	3.24	1.59	1.53
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
17	M	410	V75	O3-C3	-3.18	1.40	1.44
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	BS	1006	BCL	O2A-CGA	-3.16	1.24	1.33
11	L	303	BCL	MG-NC	3.14	2.13	2.06
17	C	406	V75	O3-C3	-3.12	1.40	1.44
25	ai	102	UYH	C11-C10	3.11	1.59	1.50
11	M	403	BCL	MG-NC	3.10	2.13	2.06
25	ai	102	UYH	C3-C4	3.01	1.60	1.52
25	ai	102	UYH	C1-C2	3.00	1.61	1.52
13	ba	102	V7N	C14-C13	2.99	1.42	1.35
25	ai	102	UYH	C9-C8	2.93	1.60	1.50
13	bo	102	V7N	C14-C13	2.90	1.42	1.35
13	aj	103	V7N	C14-C13	2.88	1.42	1.35
13	bl	101	V7N	C14-C13	2.87	1.42	1.35
13	bn	101	V7N	C14-C13	2.87	1.42	1.35
13	bb	101	V7N	C14-C13	2.86	1.42	1.35
13	af	103	V7N	C14-C13	2.85	1.42	1.35
13	bp	101	V7N	C14-C13	2.84	1.42	1.35
13	bf	101	V7N	C14-C13	2.84	1.42	1.35
13	AQ	104	V7N	C14-C13	2.82	1.42	1.35
12	AA	1003	LMT	O2'-C2'	-2.80	1.36	1.43
13	bm	101	V7N	C14-C13	2.80	1.42	1.35
13	AT	103	V7N	C14-C13	2.79	1.42	1.35
13	bo	102	V7N	C17-C18	2.78	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bi	102	V7N	C14-C13	2.77	1.42	1.35
25	ai	102	UYH	C7-C8	2.77	1.59	1.50
13	bh	101	V7N	C14-C13	2.76	1.42	1.35
13	bc	101	V7N	C14-C13	2.76	1.42	1.35
13	AE	101	V7N	C14-C13	2.75	1.42	1.35
13	ba	102	V7N	C17-C18	2.75	1.42	1.35
13	bj	101	V7N	C14-C13	2.74	1.42	1.35
13	bd	101	V7N	C14-C13	2.74	1.42	1.35
11	AU	101	BCL	CHD-C1D	2.74	1.43	1.38
13	bp	101	V7N	C17-C18	2.72	1.42	1.35
13	BO	1001	V7N	C14-C13	2.72	1.42	1.35
13	AW	104	V7N	C14-C13	2.72	1.42	1.35
13	aj	103	V7N	C17-C18	2.71	1.42	1.35
13	AH	104	V7N	C14-C13	2.71	1.42	1.35
13	BQ	1001	V7N	C14-C13	2.71	1.42	1.35
13	AB	101	V7N	C14-C13	2.71	1.42	1.35
13	bl	101	V7N	C17-C18	2.70	1.42	1.35
13	BC	101	V7N	C14-C13	2.69	1.42	1.35
13	bb	101	V7N	C17-C18	2.69	1.42	1.35
13	AQ	104	V7N	C17-C18	2.69	1.42	1.35
13	BH	1001	V7N	C14-C13	2.69	1.42	1.35
13	bm	101	V7N	C17-C18	2.68	1.42	1.35
13	BP	1001	V7N	C14-C13	2.68	1.42	1.35
11	AB	102	BCL	CHD-C1D	2.67	1.43	1.38
13	BE	101	V7N	C14-C13	2.67	1.42	1.35
13	bn	101	V7N	C17-C18	2.67	1.42	1.35
13	bj	101	V7N	C17-C18	2.66	1.42	1.35
13	BN	1001	V7N	C14-C13	2.66	1.41	1.35
13	BW	1001	V7N	C14-C13	2.66	1.41	1.35
13	bf	101	V7N	C17-C18	2.65	1.41	1.35
13	BV	1001	V7N	C14-C13	2.65	1.41	1.35
13	AE	105	V7N	C14-C13	2.64	1.41	1.35
13	af	103	V7N	C17-C18	2.63	1.41	1.35
13	bh	101	V7N	C17-C18	2.62	1.41	1.35
11	AN	102	BCL	CHD-C1D	2.62	1.43	1.38
13	AH	104	V7N	C17-C18	2.62	1.41	1.35
13	bi	102	V7N	C17-C18	2.61	1.41	1.35
13	AT	103	V7N	C17-C18	2.61	1.41	1.35
13	BL	1001	V7N	C14-C13	2.61	1.41	1.35
13	BG	1001	V7N	C14-C13	2.61	1.41	1.35
13	BS	1001	V7N	C14-C13	2.60	1.41	1.35
13	bd	101	V7N	C17-C18	2.60	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bc	101	V7N	C17-C18	2.60	1.41	1.35
13	AE	101	V7N	C17-C18	2.60	1.41	1.35
13	BJ	1001	V7N	C14-C13	2.59	1.41	1.35
13	BT	1001	V7N	C14-C13	2.59	1.41	1.35
13	BQ	1001	V7N	C17-C18	2.59	1.41	1.35
13	BM	1001	V7N	C14-C13	2.58	1.41	1.35
13	BO	1001	V7N	C17-C18	2.58	1.41	1.35
13	be	102	V7N	C14-C13	2.57	1.41	1.35
11	AI	101	BCL	CHD-C1D	2.57	1.43	1.38
13	BB	101	V7N	C14-C13	2.57	1.41	1.35
12	bd	102	LMT	O3'-C3'	-2.56	1.36	1.43
12	AQ	103	LMT	O3'-C3'	-2.56	1.36	1.43
11	M	406	BCL	CHD-C1D	2.56	1.43	1.38
11	AL	103	BCL	CHD-C1D	2.56	1.43	1.38
25	ai	102	UYH	C6-C5	2.56	1.60	1.51
11	AH	102	BCL	CHD-C1D	2.55	1.43	1.38
12	BP	1003	LMT	O3'-C3'	-2.55	1.36	1.43
12	AT	104	LMT	O3'-C3'	-2.55	1.36	1.43
13	BK	1001	V7N	C14-C13	2.54	1.41	1.35
11	AV	104	BCL	CHD-C1D	2.54	1.43	1.38
12	be	103	LMT	O3'-C3'	-2.54	1.36	1.43
13	AW	104	V7N	C17-C18	2.54	1.41	1.35
12	BM	1002	LMT	O3'-C3'	-2.54	1.36	1.43
12	AN	104	LMT	O3'-C3'	-2.54	1.36	1.43
12	BH	1002	LMT	O3'-C3'	-2.53	1.36	1.43
12	BU	1004	LMT	O3'-C3'	-2.53	1.36	1.43
12	AE	104	LMT	O3'-C3'	-2.53	1.36	1.43
12	AL	101	LMT	O3'-C3'	-2.53	1.36	1.43
12	BL	1002	LMT	O3'-C3'	-2.53	1.36	1.43
12	AA	1003	LMT	O3'-C3'	-2.53	1.36	1.43
12	AK	101	LMT	O3'-C3'	-2.53	1.36	1.43
12	AG	103	LMT	O3'-C3'	-2.52	1.36	1.43
12	BG	1005	LMT	O3'-C3'	-2.52	1.36	1.43
12	BD	105	LMT	O3'-C3'	-2.52	1.36	1.43
12	bg	1001	LMT	O3'-C3'	-2.52	1.36	1.43
12	AR	103	LMT	O3'-C3'	-2.52	1.36	1.43
13	AB	101	V7N	C17-C18	2.52	1.41	1.35
12	BD	101	LMT	O3'-C3'	-2.52	1.36	1.43
12	M	408	LMT	O3'-C3'	-2.52	1.36	1.43
12	BL	1003	LMT	O3'-C3'	-2.52	1.36	1.43
12	BL	1006	LMT	O3'-C3'	-2.52	1.36	1.43
12	BR	104	LMT	O3'-C3'	-2.52	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L	301	LMT	O3'-C3'	-2.52	1.36	1.43
12	bk	1001	LMT	O3'-C3'	-2.52	1.36	1.43
12	BI	105	LMT	O3'-C3'	-2.52	1.36	1.43
12	bo	101	LMT	O3'-C3'	-2.51	1.36	1.43
13	AE	105	V7N	C17-C18	2.51	1.41	1.35
11	AK	103	BCL	CHD-C1D	2.51	1.43	1.38
13	BH	1001	V7N	C17-C18	2.51	1.41	1.35
13	BC	101	V7N	C17-C18	2.51	1.41	1.35
12	bn	103	LMT	O3'-C3'	-2.51	1.36	1.43
13	BV	1001	V7N	C17-C18	2.51	1.41	1.35
12	bb	105	LMT	O3'-C3'	-2.51	1.36	1.43
12	BP	1005	LMT	O3'-C3'	-2.51	1.36	1.43
12	BO	1004	LMT	O3'-C3'	-2.51	1.36	1.43
12	bm	102	LMT	O3'-C3'	-2.51	1.36	1.43
12	BB	102	LMT	O3'-C3'	-2.50	1.36	1.43
12	BA	102	LMT	O3'-C3'	-2.50	1.36	1.43
12	AP	103	LMT	O3'-C3'	-2.50	1.36	1.43
24	af	101	V7B	O7-C8	-2.50	1.40	1.46
12	L	306	LMT	O3'-C3'	-2.50	1.36	1.43
12	AK	104	LMT	O3'-C3'	-2.50	1.36	1.43
12	AH	103	LMT	O3'-C3'	-2.50	1.36	1.43
12	BK	1002	LMT	O3'-C3'	-2.50	1.36	1.43
13	be	102	V7N	C17-C18	2.50	1.41	1.35
12	bj	102	LMT	O3'-C3'	-2.50	1.36	1.43
11	AQ	101	BCL	CHD-C1D	2.49	1.43	1.38
12	BF	104	LMT	O3'-C3'	-2.49	1.36	1.43
12	BE	102	LMT	O3'-C3'	-2.49	1.36	1.43
12	BS	1002	LMT	O3'-C3'	-2.49	1.36	1.43
12	BA	104	LMT	O3'-C3'	-2.49	1.36	1.43
11	AG	102	BCL	CHD-C1D	2.49	1.43	1.38
13	BP	1001	V7N	C17-C18	2.49	1.41	1.35
13	BW	1001	V7N	C17-C18	2.49	1.41	1.35
12	BR	101	LMT	O3'-C3'	-2.49	1.36	1.43
12	BO	1002	LMT	O3'-C3'	-2.49	1.36	1.43
11	AM	101	BCL	CHD-C1D	2.48	1.43	1.38
13	BE	101	V7N	C17-C18	2.48	1.41	1.35
12	bc	102	LMT	O3'-C3'	-2.48	1.36	1.43
11	AA	1002	BCL	CHD-C1D	2.48	1.43	1.38
12	BI	101	LMT	O3'-C3'	-2.48	1.36	1.43
12	ac	1001	LMT	O3'-C3'	-2.48	1.36	1.43
13	BL	1001	V7N	C17-C18	2.48	1.41	1.35
13	bn	101	V7N	C11-C12	2.48	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BG	1002	LMT	O3'-C3'	-2.48	1.36	1.43
13	BN	1001	V7N	C17-C18	2.48	1.41	1.35
12	AM	103	LMT	O3'-C3'	-2.47	1.36	1.43
12	BS	1004	LMT	O3'-C3'	-2.47	1.36	1.43
24	ag	103	V7B	O7-C8	-2.47	1.40	1.46
12	BO	1003	LMT	O3'-C3'	-2.47	1.36	1.43
12	BD	104	LMT	O3'-C3'	-2.47	1.36	1.43
13	ba	102	V7N	C11-C12	2.47	1.41	1.34
12	AI	102	LMT	O3'-C3'	-2.47	1.36	1.43
12	BV	1004	LMT	O3'-C3'	-2.47	1.36	1.43
12	AB	104	LMT	O3'-C3'	-2.47	1.36	1.43
12	L	308	LMT	O3'-C3'	-2.47	1.36	1.43
12	AD	103	LMT	O3'-C3'	-2.47	1.36	1.43
12	AJ	103	LMT	O3'-C3'	-2.47	1.36	1.43
12	BN	1005	LMT	O3'-C3'	-2.47	1.36	1.43
13	bo	102	V7N	C11-C12	2.47	1.41	1.34
12	AW	102	LMT	O3'-C3'	-2.47	1.36	1.43
12	H2	201	LMT	O3'-C3'	-2.47	1.36	1.43
12	bi	104	LMT	O3'-C3'	-2.47	1.36	1.43
12	BA	105	LMT	O3'-C3'	-2.46	1.36	1.43
11	AR	101	BCL	CHD-C1D	2.46	1.43	1.38
12	AL	104	LMT	O3'-C3'	-2.46	1.36	1.43
12	BS	1003	LMT	O3'-C3'	-2.46	1.36	1.43
12	BQ	1003	LMT	O3'-C3'	-2.46	1.36	1.43
24	af	101	V7B	O8-C28	2.46	1.40	1.33
13	BT	1001	V7N	C17-C18	2.46	1.41	1.35
12	AS	103	LMT	O3'-C3'	-2.46	1.36	1.43
12	bp	102	LMT	O3'-C3'	-2.46	1.36	1.43
12	BC	103	LMT	O3'-C3'	-2.46	1.36	1.43
12	BG	1004	LMT	O3'-C3'	-2.46	1.36	1.43
12	BC	104	LMT	O3'-C3'	-2.46	1.36	1.43
12	BI	104	LMT	O3'-C3'	-2.46	1.36	1.43
12	BU	1003	LMT	O3'-C3'	-2.46	1.36	1.43
12	L	305	LMT	O3'-C3'	-2.46	1.36	1.43
13	BS	1001	V7N	C17-C18	2.46	1.41	1.35
12	BN	1002	LMT	O3'-C3'	-2.45	1.36	1.43
12	BT	1005	LMT	O3'-C3'	-2.45	1.36	1.43
12	BT	1003	LMT	O3'-C3'	-2.45	1.36	1.43
11	AB	105	BCL	CHD-C1D	2.45	1.43	1.38
13	BG	1001	V7N	C17-C18	2.45	1.41	1.35
11	AP	101	BCL	CHD-C1D	2.45	1.43	1.38
12	BC	102	LMT	O3'-C3'	-2.45	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BQ	1004	LMT	O3'-C3'	-2.45	1.36	1.43
11	AF	101	BCL	CHD-C1D	2.45	1.43	1.38
11	AS	104	BCL	CHD-C1D	2.45	1.43	1.38
12	BX	101	LMT	O3'-C3'	-2.45	1.36	1.43
12	AE	106	LMT	O3'-C3'	-2.45	1.36	1.43
12	AN	101	LMT	O3'-C3'	-2.45	1.36	1.43
12	bl	102	LMT	O3'-C3'	-2.45	1.36	1.43
11	L	303	BCL	CHD-C1D	2.44	1.43	1.38
11	AW	103	BCL	CHD-C1D	2.44	1.43	1.38
13	BM	1001	V7N	C17-C18	2.44	1.41	1.35
11	BQ	1002	BCL	CHD-C1D	2.44	1.43	1.38
12	BK	1003	LMT	O3'-C3'	-2.44	1.36	1.43
12	BH	1003	LMT	O3'-C3'	-2.44	1.36	1.43
11	AX	101	BCL	CHD-C1D	2.44	1.43	1.38
12	bo	103	LMT	O3'-C3'	-2.44	1.36	1.43
11	AS	102	BCL	CHD-C1D	2.44	1.43	1.38
12	BF	101	LMT	O3'-C3'	-2.43	1.36	1.43
13	aj	103	V7N	C11-C12	2.43	1.41	1.34
13	BB	101	V7N	C17-C18	2.43	1.41	1.35
12	BE	102	LMT	O2'-C2'	-2.43	1.36	1.43
12	bf	102	LMT	O3'-C3'	-2.43	1.36	1.43
12	BT	1004	LMT	O3'-C3'	-2.43	1.36	1.43
11	BR	102	BCL	CHD-C1D	2.43	1.43	1.38
12	BN	1003	LMT	O3'-C3'	-2.43	1.36	1.43
12	BI	103	LMT	O3'-C3'	-2.43	1.36	1.43
11	AH	101	BCL	CHD-C1D	2.42	1.43	1.38
13	ba	102	V7N	C7-C8	2.42	1.41	1.34
12	ba	101	LMT	O3'-C3'	-2.42	1.37	1.43
12	BB	103	LMT	O3'-C3'	-2.42	1.37	1.43
12	BS	1005	LMT	O3'-C3'	-2.42	1.37	1.43
12	BX	102	LMT	O3'-C3'	-2.42	1.37	1.43
12	BK	1004	LMT	O3'-C3'	-2.42	1.37	1.43
12	BJ	1002	LMT	O3'-C3'	-2.42	1.37	1.43
12	BA	101	LMT	O3'-C3'	-2.41	1.37	1.43
12	BF	103	LMT	O3'-C3'	-2.41	1.37	1.43
13	BJ	1001	V7N	C17-C18	2.41	1.41	1.35
12	BP	1004	LMT	O3'-C3'	-2.41	1.37	1.43
12	be	101	LMT	O3'-C3'	-2.41	1.37	1.43
13	BK	1001	V7N	C17-C18	2.41	1.41	1.35
12	BB	104	LMT	O3'-C3'	-2.41	1.37	1.43
11	AN	103	BCL	CHD-C1D	2.41	1.43	1.38
12	BJ	1003	LMT	O3'-C3'	-2.41	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BH	1005	LMT	O3'-C3'	-2.41	1.37	1.43
12	AV	103	LMT	O3'-C3'	-2.40	1.37	1.43
11	AE	102	BCL	CHD-C1D	2.40	1.43	1.38
12	BM	1005	LMT	O3'-C3'	-2.40	1.37	1.43
13	bf	101	V7N	C11-C12	2.40	1.40	1.34
12	BD	102	LMT	O3'-C3'	-2.40	1.37	1.43
11	AJ	101	BCL	CHD-C1D	2.39	1.43	1.38
13	BM	1001	V7N	C12-C13	-2.39	1.40	1.46
12	BR	103	LMT	O3'-C3'	-2.39	1.37	1.43
11	BI	102	BCL	CHD-C1D	2.39	1.43	1.38
11	AW	101	BCL	CHD-C1D	2.39	1.43	1.38
13	af	103	V7N	C11-C12	2.39	1.40	1.34
12	BW	1004	LMT	O3'-C3'	-2.38	1.37	1.43
11	BA	103	BCL	CHD-C1D	2.38	1.43	1.38
13	bl	101	V7N	C11-C12	2.38	1.40	1.34
12	BV	1003	LMT	O3'-C3'	-2.38	1.37	1.43
13	AB	101	V7N	C28-C29	2.38	1.50	1.43
11	AE	103	BCL	CHD-C1D	2.37	1.43	1.38
12	BW	1003	LMT	O3'-C3'	-2.37	1.37	1.43
12	BG	1004	LMT	O2'-C2'	-2.37	1.37	1.43
12	bi	101	LMT	O3'-C3'	-2.37	1.37	1.43
13	bb	101	V7N	C11-C12	2.37	1.40	1.34
11	AL	102	BCL	CHD-C1D	2.37	1.43	1.38
11	AD	101	BCL	CHD-C1D	2.37	1.43	1.38
11	BE	103	BCL	CHD-C1D	2.37	1.43	1.38
11	BD	103	BCL	CHD-C1D	2.37	1.43	1.38
12	BL	1004	LMT	O3'-C3'	-2.37	1.37	1.43
12	AH	105	LMT	O3'-C3'	-2.37	1.37	1.43
12	L	307	LMT	O3'-C3'	-2.37	1.37	1.43
11	BF	102	BCL	CHD-C1D	2.37	1.43	1.38
11	AT	101	BCL	CHD-C1D	2.37	1.43	1.38
12	AN	104	LMT	O2'-C2'	-2.36	1.37	1.43
17	C	406	V75	O2-C2A	2.36	1.40	1.35
12	BE	104	LMT	O3'-C3'	-2.36	1.37	1.43
24	ag	103	V7B	O8-C28	2.36	1.40	1.33
11	BS	1006	BCL	CHD-C1D	2.36	1.43	1.38
12	BM	1005	LMT	O2'-C2'	-2.36	1.37	1.43
13	BB	101	V7N	C12-C13	-2.36	1.40	1.46
11	BU	1001	BCL	CHD-C1D	2.36	1.43	1.38
12	BV	1005	LMT	O3'-C3'	-2.35	1.37	1.43
13	AQ	104	V7N	C11-C12	2.35	1.40	1.34
11	AB	103	BCL	CHD-C1D	2.35	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bm	101	V7N	C11-C12	2.35	1.40	1.34
11	AV	102	BCL	CHD-C1D	2.35	1.43	1.38
11	BL	1005	BCL	CHD-C1D	2.35	1.43	1.38
12	AR	103	LMT	O2'-C2'	-2.35	1.37	1.43
13	ba	102	V7N	C6-C5	2.35	1.41	1.35
11	BG	1003	BCL	CHD-C1D	2.35	1.43	1.38
11	AV	101	BCL	CHD-C1D	2.35	1.43	1.38
11	AP	102	BCL	CHD-C1D	2.34	1.43	1.38
12	BF	104	LMT	O2'-C2'	-2.34	1.37	1.43
11	BN	1004	BCL	CHD-C1D	2.34	1.43	1.38
11	BP	1002	BCL	CHD-C1D	2.34	1.43	1.38
13	be	102	V7N	C11-C12	2.34	1.40	1.34
13	AT	103	V7N	C11-C12	2.34	1.40	1.34
12	BU	1002	LMT	O3'-C3'	-2.34	1.37	1.43
11	BV	1002	BCL	CHD-C1D	2.34	1.43	1.38
13	bp	101	V7N	C11-C12	2.34	1.40	1.34
11	ag	102	BCL	CHD-C1D	2.34	1.42	1.38
11	BX	103	BCL	CHD-C1D	2.33	1.42	1.38
11	AF	102	BCL	CHD-C1D	2.33	1.42	1.38
12	BP	1005	LMT	O2'-C2'	-2.33	1.37	1.43
13	bi	102	V7N	C11-C12	2.33	1.40	1.34
11	BM	1004	BCL	CHD-C1D	2.33	1.42	1.38
11	AS	101	BCL	CHD-C1D	2.33	1.42	1.38
11	BJ	1004	BCL	CHD-C1D	2.33	1.42	1.38
12	BL	1006	LMT	O2'-C2'	-2.33	1.37	1.43
11	ao	102	BCL	CHD-C1D	2.32	1.42	1.38
11	BC	105	BCL	CHD-C1D	2.32	1.42	1.38
11	AR	102	BCL	CHD-C1D	2.32	1.42	1.38
12	BM	1003	LMT	O3'-C3'	-2.32	1.37	1.43
12	BD	105	LMT	O2'-C2'	-2.32	1.37	1.43
11	AC	1001	BCL	CHD-C1D	2.32	1.42	1.38
13	bd	101	V7N	C11-C12	2.32	1.40	1.34
11	AK	102	BCL	CHD-C1D	2.32	1.42	1.38
13	BK	1001	V7N	C12-C13	-2.32	1.41	1.46
11	BK	1005	BCL	CHD-C1D	2.32	1.42	1.38
11	BH	1004	BCL	CHD-C1D	2.31	1.42	1.38
11	AI	103	BCL	CHD-C1D	2.31	1.42	1.38
12	BK	1002	LMT	O2'-C2'	-2.31	1.37	1.43
11	BW	1002	BCL	CHD-C1D	2.31	1.42	1.38
13	BT	1001	V7N	C12-C13	-2.31	1.41	1.46
11	ab	101	BCL	CHD-C1D	2.31	1.42	1.38
11	BB	105	BCL	CHD-C1D	2.31	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AD	102	BCL	CHD-C1D	2.31	1.42	1.38
13	af	103	V7N	C7-C8	2.31	1.40	1.34
13	bh	101	V7N	C11-C12	2.31	1.40	1.34
13	AE	105	V7N	C12-C13	-2.31	1.41	1.46
11	AA	1001	BCL	CHD-C1D	2.31	1.42	1.38
13	BQ	1001	V7N	C11-C12	2.30	1.40	1.34
13	BL	1001	V7N	C12-C13	-2.30	1.41	1.46
13	BH	1001	V7N	C11-C12	2.30	1.40	1.34
13	bc	101	V7N	C11-C12	2.30	1.40	1.34
11	am	1001	BCL	CHD-C1D	2.30	1.42	1.38
11	M	403	BCL	CHD-C1D	2.30	1.42	1.38
12	BD	101	LMT	O2'-C2'	-2.30	1.37	1.43
11	AO	101	BCL	CHD-C1D	2.30	1.42	1.38
11	BT	1002	BCL	CHD-C1D	2.30	1.42	1.38
13	AE	101	V7N	C12-C13	-2.30	1.41	1.46
13	AH	104	V7N	C11-C12	2.30	1.40	1.34
13	BG	1001	V7N	C12-C13	-2.30	1.41	1.46
12	AW	102	LMT	O2'-C2'	-2.30	1.37	1.43
24	ag	103	V7B	O7-C10	2.29	1.40	1.34
11	ah	1001	BCL	CHD-C1D	2.29	1.42	1.38
13	BS	1001	V7N	C12-C13	-2.29	1.41	1.46
13	BJ	1001	V7N	C12-C13	-2.29	1.41	1.46
11	AQ	102	BCL	CHD-C1D	2.29	1.42	1.38
11	aa	1001	BCL	CHD-C1D	2.29	1.42	1.38
13	BC	101	V7N	C11-C12	2.28	1.40	1.34
12	bj	102	LMT	O2'-C2'	-2.28	1.37	1.43
24	af	101	V7B	O7-C10	2.28	1.40	1.34
13	BN	1001	V7N	C12-C13	-2.28	1.41	1.46
11	AG	101	BCL	CHD-C1D	2.28	1.42	1.38
13	bj	101	V7N	C11-C12	2.28	1.40	1.34
12	AT	102	LMT	O3'-C3'	-2.28	1.37	1.43
13	BE	101	V7N	C12-C13	-2.27	1.41	1.46
12	bo	101	LMT	O2'-C2'	-2.27	1.37	1.43
11	AU	102	BCL	CHD-C1D	2.27	1.42	1.38
11	BO	1005	BCL	CHD-C1D	2.27	1.42	1.38
11	ad	102	BCL	CHD-C1D	2.27	1.42	1.38
12	BN	1005	LMT	O2'-C2'	-2.27	1.37	1.43
13	AB	101	V7N	C11-C12	2.27	1.40	1.34
11	aj	102	BCL	CHD-C1D	2.26	1.42	1.38
13	BO	1001	V7N	C11-C12	2.26	1.40	1.34
17	M	410	V75	O3-C3A	2.26	1.40	1.35
13	BV	1001	V7N	C12-C13	-2.26	1.41	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AM	102	BCL	CHD-C1D	2.26	1.42	1.38
13	bb	101	V7N	C7-C8	2.26	1.40	1.34
12	bo	103	LMT	O2'-C2'	-2.26	1.37	1.43
11	an	1001	BCL	CHD-C1D	2.26	1.42	1.38
12	bo	103	LMT	O2B-C2B	-2.26	1.37	1.43
12	AI	102	LMT	O2'-C2'	-2.25	1.37	1.43
17	C	406	V75	O3-C3A	2.25	1.40	1.35
11	AJ	102	BCL	CHD-C1D	2.25	1.42	1.38
11	ak	101	BCL	CHD-C1D	2.25	1.42	1.38
11	al	1001	BCL	CHD-C1D	2.25	1.42	1.38
13	bm	101	V7N	C7-C8	2.25	1.40	1.34
12	BX	101	LMT	O2'-C2'	-2.25	1.37	1.43
13	BW	1001	V7N	C12-C13	-2.25	1.41	1.46
11	bb	103	BCL	CHD-C1D	2.25	1.42	1.38
12	AH	105	LMT	O2'-C2'	-2.25	1.37	1.43
11	ap	1001	BCL	CHD-C1D	2.24	1.42	1.38
24	ag	103	V7B	O8-C9	-2.24	1.40	1.45
13	AE	101	V7N	C11-C12	2.24	1.40	1.34
12	BO	1003	LMT	O2'-C2'	-2.24	1.37	1.43
13	bi	102	V7N	C7-C8	2.24	1.40	1.34
13	AW	104	V7N	C11-C12	2.24	1.40	1.34
12	BI	105	LMT	O2'-C2'	-2.24	1.37	1.43
12	AJ	103	LMT	O3B-C3B	-2.24	1.37	1.43
12	ac	1001	LMT	O2'-C2'	-2.24	1.37	1.43
13	af	103	V7N	C6-C5	2.23	1.41	1.35
13	BH	1001	V7N	C7-C8	2.23	1.40	1.34
13	AB	101	V7N	C12-C13	-2.23	1.41	1.46
12	BB	102	LMT	O2'-C2'	-2.23	1.37	1.43
12	BQ	1003	LMT	O2'-C2'	-2.23	1.37	1.43
25	ai	102	UYH	C12-C11	2.23	1.60	1.52
12	AH	103	LMT	O2'-C2'	-2.23	1.37	1.43
13	BV	1001	V7N	C11-C12	2.23	1.40	1.34
12	AE	104	LMT	O2'-C2'	-2.23	1.37	1.43
12	BD	104	LMT	O2'-C2'	-2.23	1.37	1.43
12	BE	104	LMT	O2'-C2'	-2.23	1.37	1.43
11	ai	101	BCL	CHD-C1D	2.23	1.42	1.38
12	bf	102	LMT	O2'-C2'	-2.23	1.37	1.43
12	BT	1005	LMT	O3B-C3B	-2.23	1.37	1.43
12	ac	1001	LMT	O3B-C3B	-2.22	1.37	1.43
12	bb	105	LMT	O2B-C2B	-2.22	1.37	1.43
12	BA	104	LMT	O2'-C2'	-2.22	1.37	1.43
12	bn	103	LMT	O2'-C2'	-2.22	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	BW	1001	V7N	C11-C12	2.22	1.40	1.34
12	bd	102	LMT	O2'-C2'	-2.22	1.37	1.43
13	aj	103	V7N	C7-C8	2.22	1.40	1.34
13	AW	104	V7N	C12-C13	-2.22	1.41	1.46
13	BE	101	V7N	C11-C12	2.22	1.40	1.34
13	bp	101	V7N	C7-C8	2.22	1.40	1.34
13	BN	1001	V7N	C11-C12	2.22	1.40	1.34
12	AT	102	LMT	O2B-C2B	-2.22	1.37	1.43
12	BV	1004	LMT	O2'-C2'	-2.21	1.37	1.43
12	bi	101	LMT	O2'-C2'	-2.21	1.37	1.43
12	AG	103	LMT	O2B-C2B	-2.21	1.37	1.43
12	AS	103	LMT	O3B-C3B	-2.21	1.37	1.43
13	BP	1001	V7N	C12-C13	-2.21	1.41	1.46
12	bd	102	LMT	O3B-C3B	-2.21	1.37	1.43
11	bn	104	BCL	CHD-C1D	2.21	1.42	1.38
12	ba	101	LMT	O2'-C2'	-2.21	1.37	1.43
13	BC	101	V7N	C12-C13	-2.21	1.41	1.46
12	BD	102	LMT	O2'-C2'	-2.21	1.37	1.43
13	BL	1001	V7N	C11-C12	2.21	1.40	1.34
13	bp	101	V7N	C6-C5	2.21	1.40	1.35
13	bn	101	V7N	C7-C8	2.21	1.40	1.34
11	bl	104	BCL	CHD-C1D	2.21	1.42	1.38
13	bl	101	V7N	C7-C8	2.21	1.40	1.34
11	BU	1001	BCL	C3D-C4D	-2.21	1.39	1.44
11	ac	1002	BCL	CHD-C1D	2.21	1.42	1.38
12	BC	102	LMT	O2'-C2'	-2.21	1.37	1.43
12	BL	1002	LMT	O2'-C2'	-2.21	1.37	1.43
12	AK	104	LMT	O2'-C2'	-2.20	1.37	1.43
11	M	403	BCL	C3D-C4D	-2.20	1.39	1.44
12	BC	102	LMT	O3B-C3B	-2.20	1.37	1.43
13	BQ	1001	V7N	C12-C13	-2.20	1.41	1.46
12	BW	1003	LMT	O2'-C2'	-2.20	1.37	1.43
12	L	308	LMT	O2'-C2'	-2.20	1.37	1.43
12	AB	104	LMT	O2'-C2'	-2.20	1.37	1.43
12	BS	1002	LMT	O3B-C3B	-2.20	1.37	1.43
12	be	103	LMT	O2'-C2'	-2.20	1.37	1.43
11	AL	103	BCL	C1D-ND	2.20	1.40	1.37
11	AN	102	BCL	C1D-ND	2.20	1.40	1.37
11	bd	103	BCL	CHD-C1D	2.20	1.42	1.38
12	AJ	103	LMT	O2'-C2'	-2.20	1.37	1.43
12	L	301	LMT	O2'-C2'	-2.20	1.37	1.43
13	BP	1001	V7N	C11-C12	2.20	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BK	1003	LMT	O2B-C2B	-2.20	1.37	1.43
13	AH	104	V7N	C7-C8	2.20	1.40	1.34
12	AN	101	LMT	O2B-C2B	-2.20	1.37	1.43
12	bc	102	LMT	O2'-C2'	-2.20	1.37	1.43
13	bb	101	V7N	C6-C5	2.20	1.40	1.35
17	M	410	V75	O2-C2A	2.20	1.40	1.35
12	AQ	103	LMT	O2'-C2'	-2.20	1.37	1.43
12	BA	104	LMT	O3B-C3B	-2.20	1.37	1.43
11	L	304	BCL	CHD-C1D	2.20	1.42	1.38
13	bo	102	V7N	C7-C8	2.20	1.40	1.34
12	AN	101	LMT	O3B-C3B	-2.20	1.37	1.43
12	BA	101	LMT	O3B-C3B	-2.19	1.37	1.43
12	bn	103	LMT	O3B-C3B	-2.19	1.37	1.43
12	BP	1003	LMT	O2'-C2'	-2.19	1.37	1.43
12	bb	105	LMT	O2'-C2'	-2.19	1.37	1.43
13	BH	1001	V7N	C6-C5	2.19	1.40	1.35
12	bi	104	LMT	O3B-C3B	-2.19	1.37	1.43
12	BR	101	LMT	O2'-C2'	-2.19	1.37	1.43
12	bm	102	LMT	O2'-C2'	-2.19	1.37	1.43
12	BS	1004	LMT	O3B-C3B	-2.19	1.37	1.43
12	BR	104	LMT	O3B-C3B	-2.19	1.37	1.43
12	BH	1002	LMT	O2'-C2'	-2.19	1.37	1.43
12	BS	1002	LMT	O2'-C2'	-2.19	1.37	1.43
12	BS	1004	LMT	O2'-C2'	-2.19	1.37	1.43
12	BU	1003	LMT	O3B-C3B	-2.19	1.37	1.43
13	BS	1001	V7N	C11-C12	2.19	1.40	1.34
12	bo	103	LMT	O3B-C3B	-2.19	1.37	1.43
11	BL	1005	BCL	C3D-C4D	-2.19	1.39	1.44
13	BO	1001	V7N	C12-C13	-2.19	1.41	1.46
12	AJ	103	LMT	O2B-C2B	-2.19	1.37	1.43
12	BF	103	LMT	O2B-C2B	-2.19	1.37	1.43
11	bj	104	BCL	CHD-C1D	2.19	1.42	1.38
12	AA	1003	LMT	O3B-C3B	-2.19	1.37	1.43
12	M	408	LMT	O3B-C3B	-2.19	1.37	1.43
11	ae	101	BCL	CHD-C1D	2.18	1.42	1.38
12	BF	101	LMT	O2'-C2'	-2.18	1.37	1.43
12	BW	1004	LMT	O2'-C2'	-2.18	1.37	1.43
12	BN	1005	LMT	O3B-C3B	-2.18	1.37	1.43
12	BV	1005	LMT	O2B-C2B	-2.18	1.37	1.43
12	BV	1003	LMT	O2B-C2B	-2.18	1.37	1.43
13	BM	1001	V7N	C11-C12	2.18	1.40	1.34
12	bc	102	LMT	O3B-C3B	-2.18	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BI	105	LMT	O3B-C3B	-2.18	1.37	1.43
13	BT	1001	V7N	C11-C12	2.18	1.40	1.34
12	BO	1002	LMT	O3B-C3B	-2.18	1.37	1.43
13	AE	105	V7N	C11-C12	2.18	1.40	1.34
12	AG	103	LMT	O3B-C3B	-2.18	1.37	1.43
12	AT	104	LMT	O3B-C3B	-2.18	1.37	1.43
12	BS	1005	LMT	O3B-C3B	-2.18	1.37	1.43
13	bc	101	V7N	C12-C13	-2.18	1.41	1.46
12	BH	1002	LMT	O3B-C3B	-2.18	1.37	1.43
11	BI	102	BCL	C3D-C4D	-2.18	1.39	1.44
12	AE	106	LMT	O2'-C2'	-2.18	1.37	1.43
12	AL	101	LMT	O3B-C3B	-2.18	1.37	1.43
12	be	101	LMT	O2'-C2'	-2.18	1.37	1.43
12	AV	103	LMT	O3B-C3B	-2.18	1.37	1.43
12	BP	1005	LMT	O3B-C3B	-2.18	1.37	1.43
13	bl	101	V7N	C6-C5	2.18	1.40	1.35
11	bm	103	BCL	C3D-C4D	-2.18	1.39	1.44
12	BP	1004	LMT	O3B-C3B	-2.18	1.37	1.43
12	BG	1005	LMT	O3B-C3B	-2.17	1.37	1.43
12	BH	1005	LMT	O2'-C2'	-2.17	1.37	1.43
12	BV	1003	LMT	O3B-C3B	-2.17	1.37	1.43
12	L	308	LMT	O3B-C3B	-2.17	1.37	1.43
12	BU	1003	LMT	O2'-C2'	-2.17	1.37	1.43
11	AN	105	BCL	CHD-C1D	2.17	1.42	1.38
12	BG	1002	LMT	O3B-C3B	-2.17	1.37	1.43
12	L	305	LMT	O2B-C2B	-2.17	1.37	1.43
11	BO	1005	BCL	C3D-C4D	-2.17	1.39	1.44
11	bf	103	BCL	CHD-C1D	2.17	1.42	1.38
12	AR	103	LMT	O3B-C3B	-2.17	1.37	1.43
12	AV	103	LMT	O2'-C2'	-2.17	1.37	1.43
25	ai	102	UYH	C30-C29	2.17	1.60	1.52
12	BR	101	LMT	O3B-C3B	-2.17	1.37	1.43
12	BC	103	LMT	O3B-C3B	-2.17	1.37	1.43
12	BR	103	LMT	O2B-C2B	-2.17	1.37	1.43
12	AL	104	LMT	O3B-C3B	-2.17	1.37	1.43
11	bo	105	BCL	C3D-C4D	-2.17	1.39	1.44
12	BD	104	LMT	O3B-C3B	-2.17	1.37	1.43
13	AH	104	V7N	C6-C5	2.17	1.40	1.35
12	L	306	LMT	O2'-C2'	-2.17	1.37	1.43
12	AW	102	LMT	O3B-C3B	-2.17	1.37	1.43
12	BM	1002	LMT	O2'-C2'	-2.16	1.37	1.43
13	BJ	1001	V7N	C11-C12	2.16	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	bc	104	BCL	C3D-C4D	-2.16	1.39	1.44
12	BK	1004	LMT	O3B-C3B	-2.16	1.37	1.43
12	bb	105	LMT	O3B-C3B	-2.16	1.37	1.43
12	BV	1005	LMT	O2'-C2'	-2.16	1.37	1.43
13	bi	102	V7N	C6-C5	2.16	1.40	1.35
12	BT	1005	LMT	O2B-C2B	-2.16	1.37	1.43
13	aj	103	V7N	C6-C5	2.16	1.40	1.35
12	L	305	LMT	O3B-C3B	-2.16	1.37	1.43
13	BK	1001	V7N	C11-C12	2.16	1.40	1.34
12	AP	103	LMT	O2B-C2B	-2.16	1.37	1.43
12	AQ	103	LMT	O2B-C2B	-2.16	1.37	1.43
13	bm	101	V7N	C6-C5	2.16	1.40	1.35
11	BM	1004	BCL	C3D-C4D	-2.16	1.39	1.44
12	AM	103	LMT	O2B-C2B	-2.16	1.37	1.43
12	BH	1003	LMT	O3B-C3B	-2.16	1.37	1.43
12	BI	101	LMT	O2'-C2'	-2.16	1.37	1.43
12	L	307	LMT	O2B-C2B	-2.16	1.37	1.43
11	bf	103	BCL	C3D-C4D	-2.16	1.39	1.44
12	AS	103	LMT	O2'-C2'	-2.16	1.37	1.43
12	be	101	LMT	O3B-C3B	-2.16	1.37	1.43
12	AG	103	LMT	O2'-C2'	-2.16	1.37	1.43
12	AH	103	LMT	O3B-C3B	-2.16	1.37	1.43
12	BL	1002	LMT	O3B-C3B	-2.16	1.37	1.43
12	L	301	LMT	O3B-C3B	-2.16	1.37	1.43
13	bo	102	V7N	C6-C5	2.16	1.40	1.35
12	AD	103	LMT	O3B-C3B	-2.16	1.37	1.43
12	AD	103	LMT	O2'-C2'	-2.16	1.37	1.43
12	BD	105	LMT	O3B-C3B	-2.16	1.37	1.43
12	BF	104	LMT	O3B-C3B	-2.16	1.37	1.43
12	BT	1003	LMT	O3B-C3B	-2.16	1.37	1.43
11	BB	105	BCL	C3D-C4D	-2.16	1.39	1.44
12	AI	102	LMT	O3B-C3B	-2.16	1.37	1.43
11	ba	103	BCL	C3D-C4D	-2.16	1.39	1.44
12	BL	1006	LMT	O3B-C3B	-2.16	1.37	1.43
11	af	102	BCL	CHD-C1D	2.16	1.42	1.38
12	bg	1001	LMT	O2'-C2'	-2.15	1.37	1.43
12	BS	1003	LMT	O3B-C3B	-2.15	1.37	1.43
12	bm	102	LMT	O2B-C2B	-2.15	1.37	1.43
12	AI	102	LMT	O2B-C2B	-2.15	1.37	1.43
13	be	102	V7N	C12-C13	-2.15	1.41	1.46
12	bc	102	LMT	O2B-C2B	-2.15	1.37	1.43
12	AM	103	LMT	O3B-C3B	-2.15	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L	301	LMT	O2B-C2B	-2.15	1.37	1.43
12	BA	102	LMT	O3B-C3B	-2.15	1.37	1.43
12	BJ	1002	LMT	O2'-C2'	-2.15	1.37	1.43
12	BP	1003	LMT	O3B-C3B	-2.15	1.37	1.43
12	BE	104	LMT	O2B-C2B	-2.15	1.37	1.43
12	BO	1003	LMT	O2B-C2B	-2.15	1.37	1.43
12	be	103	LMT	O2B-C2B	-2.15	1.37	1.43
11	be	105	BCL	CHD-C1D	2.15	1.42	1.38
12	AE	104	LMT	O2B-C2B	-2.15	1.37	1.43
12	BL	1003	LMT	O3B-C3B	-2.15	1.37	1.43
11	bg	1002	BCL	C3D-C4D	-2.15	1.39	1.44
12	BL	1004	LMT	O2'-C2'	-2.15	1.37	1.43
12	BM	1003	LMT	O2'-C2'	-2.15	1.37	1.43
12	AB	104	LMT	O2B-C2B	-2.15	1.37	1.43
12	BG	1002	LMT	O2B-C2B	-2.15	1.37	1.43
12	bl	102	LMT	O3B-C3B	-2.15	1.37	1.43
11	bp	104	BCL	CHD-C1D	2.15	1.42	1.38
12	BI	101	LMT	O3B-C3B	-2.15	1.37	1.43
11	BR	102	BCL	C3D-C4D	-2.15	1.39	1.44
12	AN	104	LMT	O3B-C3B	-2.15	1.37	1.43
13	AQ	104	V7N	C7-C8	2.15	1.40	1.34
12	BN	1005	LMT	O2B-C2B	-2.15	1.37	1.43
11	BX	103	BCL	C3D-C4D	-2.15	1.39	1.44
13	BL	1001	V7N	C7-C8	2.15	1.40	1.34
12	bl	102	LMT	O2'-C2'	-2.15	1.37	1.43
11	BP	1002	BCL	C3D-C4D	-2.15	1.39	1.44
12	BM	1003	LMT	O3B-C3B	-2.15	1.37	1.43
12	BP	1005	LMT	O2B-C2B	-2.15	1.37	1.43
12	AB	104	LMT	O3B-C3B	-2.15	1.37	1.43
12	AT	102	LMT	O3B-C3B	-2.15	1.37	1.43
12	BF	103	LMT	O3B-C3B	-2.15	1.37	1.43
12	BK	1002	LMT	O3B-C3B	-2.15	1.37	1.43
12	bi	104	LMT	O2B-C2B	-2.15	1.37	1.43
12	BN	1003	LMT	O2B-C2B	-2.15	1.37	1.43
12	AK	104	LMT	O3B-C3B	-2.15	1.37	1.43
12	BQ	1004	LMT	O2'-C2'	-2.15	1.37	1.43
12	AW	102	LMT	O2B-C2B	-2.15	1.37	1.43
11	BF	102	BCL	C3D-C4D	-2.14	1.39	1.44
12	AK	104	LMT	O2B-C2B	-2.14	1.37	1.43
12	BR	104	LMT	O2B-C2B	-2.14	1.37	1.43
12	AL	101	LMT	O2'-C2'	-2.14	1.37	1.43
13	AB	101	V7N	C6-C5	2.14	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	AT	103	V7N	C7-C8	2.14	1.40	1.34
12	BK	1004	LMT	O2B-C2B	-2.14	1.37	1.43
12	BL	1004	LMT	O3B-C3B	-2.14	1.37	1.43
12	BV	1003	LMT	O2'-C2'	-2.14	1.37	1.43
11	bn	104	BCL	C3D-C4D	-2.14	1.39	1.44
12	BD	101	LMT	O3B-C3B	-2.14	1.37	1.43
12	bp	102	LMT	O2'-C2'	-2.14	1.37	1.43
12	BJ	1002	LMT	O2B-C2B	-2.14	1.37	1.43
12	BV	1005	LMT	O3B-C3B	-2.14	1.37	1.43
11	BD	103	BCL	C3D-C4D	-2.14	1.39	1.44
11	BJ	1004	BCL	C3D-C4D	-2.14	1.39	1.44
11	bh	102	BCL	C3D-C4D	-2.14	1.39	1.44
12	BC	104	LMT	O2B-C2B	-2.14	1.37	1.43
13	BG	1001	V7N	C11-C12	2.14	1.40	1.34
11	AK	102	BCL	C3D-C4D	-2.14	1.39	1.44
12	BS	1005	LMT	O2'-C2'	-2.14	1.37	1.43
12	AK	101	LMT	O3B-C3B	-2.14	1.37	1.43
11	be	105	BCL	C3D-C4D	-2.14	1.39	1.44
12	BA	102	LMT	O2'-C2'	-2.14	1.37	1.43
12	AN	104	LMT	O2B-C2B	-2.14	1.37	1.43
12	bk	1001	LMT	O3B-C3B	-2.14	1.37	1.43
13	bn	101	V7N	C6-C5	2.14	1.40	1.35
12	BX	102	LMT	O3B-C3B	-2.14	1.37	1.43
12	bj	102	LMT	O3B-C3B	-2.14	1.37	1.43
11	bd	103	BCL	C3D-C4D	-2.14	1.39	1.44
12	AH	105	LMT	O3B-C3B	-2.14	1.37	1.43
12	BM	1003	LMT	O2B-C2B	-2.14	1.37	1.43
12	BO	1003	LMT	O3B-C3B	-2.14	1.37	1.43
12	H2	201	LMT	O3B-C3B	-2.14	1.37	1.43
12	bi	101	LMT	O3B-C3B	-2.14	1.37	1.43
12	BB	102	LMT	O3B-C3B	-2.14	1.37	1.43
12	BQ	1004	LMT	O3B-C3B	-2.14	1.37	1.43
12	bf	102	LMT	O2B-C2B	-2.14	1.37	1.43
13	bl	101	V7N	C12-C13	-2.14	1.41	1.46
13	bf	101	V7N	C7-C8	2.14	1.40	1.34
11	aj	102	BCL	C3D-C4D	-2.13	1.39	1.44
12	M	408	LMT	O2B-C2B	-2.13	1.37	1.43
11	bl	104	BCL	C1D-C2D	-2.13	1.41	1.45
12	BJ	1003	LMT	O2'-C2'	-2.13	1.37	1.43
12	BI	104	LMT	O3B-C3B	-2.13	1.37	1.43
12	BT	1004	LMT	O3B-C3B	-2.13	1.37	1.43
12	BV	1004	LMT	O2B-C2B	-2.13	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	ap	1001	BCL	C3D-C4D	-2.13	1.39	1.44
12	BM	1005	LMT	O2B-C2B	-2.13	1.37	1.43
13	bh	101	V7N	C7-C8	2.13	1.40	1.34
12	BI	103	LMT	O3B-C3B	-2.13	1.37	1.43
13	BH	1001	V7N	C12-C13	-2.13	1.41	1.46
11	AP	101	BCL	C1D-ND	2.13	1.40	1.37
11	bp	104	BCL	C3D-C4D	-2.13	1.39	1.44
12	AP	103	LMT	O3B-C3B	-2.13	1.37	1.43
12	BB	102	LMT	O2B-C2B	-2.13	1.37	1.43
12	bm	102	LMT	O3B-C3B	-2.13	1.37	1.43
12	bp	102	LMT	O3B-C3B	-2.13	1.37	1.43
13	BO	1001	V7N	C6-C5	2.13	1.40	1.35
13	bc	101	V7N	C7-C8	2.13	1.40	1.34
12	BM	1002	LMT	O3B-C3B	-2.13	1.37	1.43
12	BS	1002	LMT	O2B-C2B	-2.13	1.37	1.43
12	BU	1002	LMT	O2B-C2B	-2.13	1.37	1.43
12	bg	1001	LMT	O2B-C2B	-2.13	1.37	1.43
12	BM	1002	LMT	O2B-C2B	-2.13	1.37	1.43
12	AH	105	LMT	O2B-C2B	-2.13	1.37	1.43
12	AL	104	LMT	O2B-C2B	-2.13	1.37	1.43
12	BN	1003	LMT	O3B-C3B	-2.13	1.37	1.43
11	AJ	101	BCL	C1D-ND	2.13	1.40	1.37
13	BB	101	V7N	C11-C12	2.13	1.40	1.34
12	AE	106	LMT	O2B-C2B	-2.13	1.37	1.43
12	AM	103	LMT	O2'-C2'	-2.13	1.37	1.43
12	BO	1004	LMT	O3B-C3B	-2.13	1.37	1.43
12	bf	102	LMT	O3B-C3B	-2.13	1.37	1.43
12	BE	102	LMT	O3B-C3B	-2.13	1.37	1.43
12	BV	1004	LMT	O3B-C3B	-2.13	1.37	1.43
11	AG	101	BCL	C3D-C4D	-2.13	1.39	1.44
12	AP	103	LMT	O2'-C2'	-2.13	1.37	1.43
12	BJ	1003	LMT	O3B-C3B	-2.13	1.37	1.43
12	BR	103	LMT	O3B-C3B	-2.13	1.37	1.43
12	BK	1003	LMT	O2'-C2'	-2.13	1.37	1.43
11	BH	1004	BCL	C3D-C4D	-2.13	1.39	1.44
13	AT	103	V7N	C6-C5	2.13	1.40	1.35
12	BH	1005	LMT	O2B-C2B	-2.13	1.37	1.43
11	BA	103	BCL	C3D-C4D	-2.13	1.39	1.44
12	BK	1003	LMT	O3B-C3B	-2.13	1.37	1.43
12	BW	1003	LMT	O3B-C3B	-2.13	1.37	1.43
12	BW	1004	LMT	O3B-C3B	-2.13	1.37	1.43
12	BD	102	LMT	O2B-C2B	-2.12	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BC	104	LMT	O2'-C2'	-2.12	1.37	1.43
11	AA	1002	BCL	C1D-ND	2.12	1.40	1.37
12	BJ	1002	LMT	O3B-C3B	-2.12	1.37	1.43
12	BX	101	LMT	O3B-C3B	-2.12	1.37	1.43
12	BR	104	LMT	O2'-C2'	-2.12	1.37	1.43
12	bl	102	LMT	O2B-C2B	-2.12	1.37	1.43
11	bi	106	BCL	C3D-C4D	-2.12	1.39	1.44
12	BP	1003	LMT	O2B-C2B	-2.12	1.37	1.43
12	BA	105	LMT	O3B-C3B	-2.12	1.37	1.43
12	BB	104	LMT	O3B-C3B	-2.12	1.37	1.43
12	BW	1003	LMT	O2B-C2B	-2.12	1.37	1.43
13	be	102	V7N	C7-C8	2.12	1.40	1.34
13	bh	101	V7N	C12-C13	-2.12	1.41	1.46
13	bj	101	V7N	C12-C13	-2.12	1.41	1.46
12	ba	101	LMT	O2B-C2B	-2.12	1.37	1.43
11	AL	102	BCL	C3D-C4D	-2.12	1.39	1.44
12	BU	1004	LMT	O3B-C3B	-2.12	1.37	1.43
11	BT	1002	BCL	C3D-C4D	-2.12	1.39	1.44
12	AE	104	LMT	O3B-C3B	-2.12	1.37	1.43
13	AQ	104	V7N	C6-C5	2.12	1.40	1.35
11	BG	1003	BCL	C3D-C4D	-2.12	1.39	1.44
12	AE	106	LMT	O3B-C3B	-2.12	1.37	1.43
12	AQ	103	LMT	O3B-C3B	-2.12	1.37	1.43
12	BF	101	LMT	O2B-C2B	-2.12	1.37	1.43
13	bd	101	V7N	C12-C13	-2.12	1.41	1.46
11	ba	103	BCL	CHD-C1D	2.12	1.42	1.38
12	BR	103	LMT	O2'-C2'	-2.12	1.37	1.43
13	AE	101	V7N	C7-C8	2.12	1.40	1.34
12	BN	1002	LMT	O3B-C3B	-2.12	1.37	1.43
11	ai	101	BCL	C3D-C4D	-2.12	1.39	1.44
12	BA	105	LMT	O2'-C2'	-2.12	1.37	1.43
12	BK	1004	LMT	O2'-C2'	-2.12	1.37	1.43
12	BM	1005	LMT	O3B-C3B	-2.12	1.37	1.43
13	af	103	V7N	C12-C13	-2.12	1.41	1.46
12	be	101	LMT	O2B-C2B	-2.11	1.37	1.43
11	BK	1005	BCL	C3D-C4D	-2.11	1.39	1.44
13	AH	104	V7N	C12-C13	-2.11	1.41	1.46
12	BT	1004	LMT	O2'-C2'	-2.11	1.37	1.43
13	BV	1001	V7N	C7-C8	2.11	1.40	1.34
12	BF	101	LMT	O3B-C3B	-2.11	1.37	1.43
11	ao	102	BCL	C3D-C4D	-2.11	1.39	1.44
12	BD	102	LMT	O3B-C3B	-2.11	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BA	104	LMT	O2B-C2B	-2.11	1.37	1.43
12	bg	1001	LMT	O3B-C3B	-2.11	1.37	1.43
12	bk	1001	LMT	O2B-C2B	-2.11	1.37	1.43
12	BH	1005	LMT	O3B-C3B	-2.11	1.37	1.43
12	BR	101	LMT	O2B-C2B	-2.11	1.37	1.43
11	BN	1004	BCL	C3D-C4D	-2.11	1.39	1.44
12	BG	1005	LMT	O2'-C2'	-2.11	1.37	1.43
13	BV	1001	V7N	C6-C5	2.11	1.40	1.35
12	BI	101	LMT	O2B-C2B	-2.11	1.37	1.43
12	bi	101	LMT	O2B-C2B	-2.11	1.37	1.43
12	bo	101	LMT	O3B-C3B	-2.11	1.37	1.43
12	BB	103	LMT	O3B-C3B	-2.11	1.37	1.43
13	bm	101	V7N	C12-C13	-2.11	1.41	1.46
12	AT	104	LMT	O2'-C2'	-2.11	1.37	1.43
12	BC	104	LMT	O3B-C3B	-2.11	1.37	1.43
12	L	306	LMT	O3B-C3B	-2.11	1.37	1.43
12	AD	103	LMT	O2B-C2B	-2.11	1.37	1.43
11	AH	101	BCL	C3D-C4D	-2.11	1.39	1.44
12	ac	1001	LMT	O2B-C2B	-2.11	1.37	1.43
13	bc	101	V7N	C6-C5	2.11	1.40	1.35
11	M	406	BCL	C3D-C4D	-2.11	1.39	1.44
12	BU	1002	LMT	O3B-C3B	-2.11	1.37	1.43
11	BQ	1002	BCL	C3D-C4D	-2.11	1.39	1.44
11	BV	1002	BCL	C3D-C4D	-2.11	1.39	1.44
11	ad	102	BCL	C3D-C4D	-2.11	1.39	1.44
12	BO	1004	LMT	O2B-C2B	-2.11	1.37	1.43
12	BQ	1003	LMT	O3B-C3B	-2.11	1.37	1.43
11	bm	103	BCL	CHD-C1D	2.11	1.42	1.38
11	AQ	102	BCL	C3D-C4D	-2.10	1.39	1.44
12	BT	1003	LMT	O2B-C2B	-2.10	1.37	1.43
11	AI	103	BCL	C3D-C4D	-2.10	1.39	1.44
11	bj	104	BCL	C3D-C4D	-2.10	1.39	1.44
12	BA	101	LMT	O2'-C2'	-2.10	1.37	1.43
11	BC	105	BCL	C3D-C4D	-2.10	1.39	1.44
12	BS	1005	LMT	O2B-C2B	-2.10	1.37	1.43
12	bj	102	LMT	O2B-C2B	-2.10	1.37	1.43
12	AT	104	LMT	O2B-C2B	-2.10	1.37	1.43
12	BT	1005	LMT	O2'-C2'	-2.10	1.37	1.43
12	bo	101	LMT	O2B-C2B	-2.10	1.37	1.43
11	AD	101	BCL	C3D-C4D	-2.10	1.39	1.44
11	AJ	101	BCL	C3D-C4D	-2.10	1.39	1.44
12	BT	1003	LMT	O2'-C2'	-2.10	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	ba	101	LMT	O3B-C3B	-2.10	1.37	1.43
11	AB	103	BCL	C3D-C4D	-2.10	1.39	1.44
11	AP	102	BCL	C3D-C4D	-2.10	1.39	1.44
12	AA	1003	LMT	O2B-C2B	-2.10	1.37	1.43
11	bk	1002	BCL	CHD-C1D	2.10	1.42	1.38
12	BN	1002	LMT	O2B-C2B	-2.10	1.37	1.43
12	BQ	1003	LMT	O2B-C2B	-2.10	1.37	1.43
13	bh	101	V7N	C6-C5	2.10	1.40	1.35
13	bi	102	V7N	C12-C13	-2.10	1.41	1.46
11	L	303	BCL	C3D-C4D	-2.10	1.39	1.44
11	bk	1002	BCL	C3D-C4D	-2.10	1.39	1.44
11	bh	102	BCL	CHD-C1D	2.10	1.42	1.38
11	L	304	BCL	C3D-C4D	-2.10	1.39	1.44
12	AN	101	LMT	O2'-C2'	-2.10	1.37	1.43
12	BI	103	LMT	O2'-C2'	-2.10	1.37	1.43
12	AK	101	LMT	O2B-C2B	-2.10	1.37	1.43
12	AS	103	LMT	O2B-C2B	-2.10	1.37	1.43
12	BC	102	LMT	O2B-C2B	-2.10	1.37	1.43
12	BE	104	LMT	O3B-C3B	-2.10	1.37	1.43
11	AE	103	BCL	C3D-C4D	-2.10	1.39	1.44
13	bf	101	V7N	C12-C13	-2.10	1.41	1.46
11	ac	1002	BCL	C3D-C4D	-2.10	1.39	1.44
12	BU	1003	LMT	O2B-C2B	-2.10	1.37	1.43
13	BL	1001	V7N	C6-C5	2.10	1.40	1.35
12	BF	103	LMT	O2'-C2'	-2.10	1.37	1.43
12	BH	1003	LMT	O2B-C2B	-2.10	1.37	1.43
11	bo	105	BCL	CHD-C1D	2.10	1.42	1.38
12	BF	104	LMT	O2B-C2B	-2.10	1.37	1.43
12	BP	1004	LMT	O2B-C2B	-2.10	1.37	1.43
12	be	103	LMT	O3B-C3B	-2.10	1.37	1.43
13	BQ	1001	V7N	C7-C8	2.10	1.40	1.34
12	BI	104	LMT	O2B-C2B	-2.10	1.37	1.43
11	AS	101	BCL	C3D-C4D	-2.10	1.39	1.44
13	AW	104	V7N	C7-C8	2.09	1.40	1.34
13	bo	102	V7N	C20-C19	2.09	1.40	1.34
11	AR	101	BCL	C1D-ND	2.09	1.40	1.37
11	AT	101	BCL	C3D-C4D	-2.09	1.39	1.44
11	AV	102	BCL	C1D-ND	2.09	1.40	1.37
12	BJ	1003	LMT	O2B-C2B	-2.09	1.37	1.43
12	BG	1002	LMT	O2'-C2'	-2.09	1.37	1.43
12	bk	1001	LMT	O2'-C2'	-2.09	1.37	1.43
12	AL	101	LMT	O2B-C2B	-2.09	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BW	1002	BCL	C3D-C4D	-2.09	1.39	1.44
12	BD	105	LMT	O2B-C2B	-2.09	1.37	1.43
12	BS	1004	LMT	O2B-C2B	-2.09	1.37	1.43
12	bi	104	LMT	O2'-C2'	-2.09	1.37	1.43
13	bd	101	V7N	C7-C8	2.09	1.40	1.34
11	af	102	BCL	C3D-C4D	-2.09	1.39	1.44
12	BD	104	LMT	O2B-C2B	-2.09	1.37	1.43
11	AJ	102	BCL	C3D-C4D	-2.09	1.39	1.44
13	AT	103	V7N	C12-C13	-2.09	1.41	1.46
11	BE	103	BCL	C3D-C4D	-2.09	1.39	1.44
13	AW	104	V7N	C6-C5	2.09	1.40	1.35
13	BJ	1001	V7N	C7-C8	2.09	1.40	1.34
12	BW	1004	LMT	O2B-C2B	-2.09	1.37	1.43
12	AL	104	LMT	O2'-C2'	-2.09	1.37	1.43
12	BL	1006	LMT	O2B-C2B	-2.09	1.37	1.43
12	BS	1003	LMT	O2B-C2B	-2.09	1.37	1.43
11	AF	101	BCL	C3D-C4D	-2.09	1.39	1.44
11	bi	106	BCL	CHD-C1D	2.09	1.42	1.38
13	bn	101	V7N	C12-C13	-2.09	1.41	1.46
12	BH	1002	LMT	O2B-C2B	-2.09	1.37	1.43
11	AO	101	BCL	C3D-C4D	-2.08	1.39	1.44
12	BC	103	LMT	O2B-C2B	-2.08	1.37	1.43
11	AF	102	BCL	C3D-C4D	-2.08	1.39	1.44
12	BG	1004	LMT	O3B-C3B	-2.08	1.37	1.43
11	AM	102	BCL	C3D-C4D	-2.08	1.39	1.44
11	BS	1006	BCL	C3D-C4D	-2.08	1.39	1.44
11	am	1001	BCL	C3D-C4D	-2.08	1.39	1.44
11	ab	101	BCL	C3D-C4D	-2.08	1.39	1.44
12	H2	201	LMT	O2B-C2B	-2.08	1.37	1.43
12	L	307	LMT	O3B-C3B	-2.08	1.37	1.43
11	bb	103	BCL	C3D-C4D	-2.08	1.39	1.44
11	AN	105	BCL	O1A-CGA	-2.08	1.16	1.22
12	AH	103	LMT	O2B-C2B	-2.08	1.37	1.43
11	aa	1001	BCL	C3D-C4D	-2.08	1.39	1.44
11	AB	102	BCL	C1D-ND	2.08	1.40	1.37
12	bp	102	LMT	O2B-C2B	-2.08	1.37	1.43
12	BB	103	LMT	O2B-C2B	-2.08	1.37	1.43
12	BQ	1004	LMT	O2B-C2B	-2.08	1.37	1.43
12	bn	103	LMT	O2B-C2B	-2.08	1.37	1.43
11	AU	102	BCL	C3D-C4D	-2.08	1.39	1.44
13	BK	1001	V7N	C7-C8	2.08	1.40	1.34
12	L	305	LMT	O2'-C2'	-2.08	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	BK	1002	LMT	O2B-C2B	-2.08	1.37	1.43
13	BB	101	V7N	C19-C18	-2.08	1.41	1.46
13	BQ	1001	V7N	C6-C5	2.08	1.40	1.35
12	BT	1004	LMT	O2B-C2B	-2.08	1.37	1.43
12	BO	1002	LMT	O2'-C2'	-2.08	1.37	1.43
13	AE	101	V7N	C6-C5	2.08	1.40	1.35
11	AG	102	BCL	C3D-C4D	-2.08	1.39	1.44
13	AB	101	V7N	C7-C8	2.08	1.40	1.34
11	AI	101	BCL	C1D-ND	2.08	1.40	1.37
11	an	1001	BCL	C3D-C4D	-2.08	1.39	1.44
11	AC	1001	BCL	C3D-C4D	-2.07	1.39	1.44
11	ae	101	BCL	C3D-C4D	-2.07	1.39	1.44
12	BA	102	LMT	O2B-C2B	-2.07	1.37	1.43
11	bg	1002	BCL	CHD-C1D	2.07	1.42	1.38
13	BG	1001	V7N	C7-C8	2.07	1.40	1.34
12	BN	1002	LMT	O2'-C2'	-2.07	1.37	1.43
12	BS	1003	LMT	O2'-C2'	-2.07	1.37	1.43
12	BX	101	LMT	O2B-C2B	-2.07	1.37	1.43
12	BL	1002	LMT	O2B-C2B	-2.07	1.37	1.43
13	BO	1001	V7N	C7-C8	2.07	1.40	1.34
12	BX	102	LMT	O2'-C2'	-2.07	1.37	1.43
12	BB	103	LMT	O2'-C2'	-2.07	1.37	1.43
12	AV	103	LMT	O2B-C2B	-2.07	1.37	1.43
11	AS	104	BCL	C1D-ND	2.07	1.40	1.37
11	al	1001	BCL	C3D-C4D	-2.07	1.39	1.44
13	BT	1001	V7N	C19-C18	-2.07	1.41	1.46
13	bj	101	V7N	C7-C8	2.07	1.40	1.34
11	bh	102	BCL	C1D-C2D	-2.07	1.41	1.45
11	AN	103	BCL	C3D-C4D	-2.07	1.39	1.44
12	BI	105	LMT	O2B-C2B	-2.07	1.37	1.43
12	L	307	LMT	O2'-C2'	-2.07	1.37	1.43
12	L	308	LMT	O2B-C2B	-2.07	1.37	1.43
13	BT	1001	V7N	C7-C8	2.07	1.40	1.34
12	BB	104	LMT	O2'-C2'	-2.06	1.37	1.43
13	BJ	1001	V7N	C6-C5	2.06	1.40	1.35
11	AW	101	BCL	C3D-C4D	-2.06	1.39	1.44
12	BA	101	LMT	O2B-C2B	-2.06	1.37	1.43
11	AH	102	BCL	C1D-ND	2.06	1.40	1.37
11	ah	1001	BCL	C3D-C4D	-2.06	1.39	1.44
17	M	410	V75	O5-C1	-2.06	1.40	1.43
13	BC	101	V7N	C7-C8	2.06	1.40	1.34
12	M	408	LMT	O2'-C2'	-2.06	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	BB	101	V7N	C7-C8	2.06	1.40	1.34
11	AD	102	BCL	C3D-C4D	-2.06	1.39	1.44
11	AV	101	BCL	C3D-C4D	-2.06	1.39	1.44
11	AU	101	BCL	C1D-ND	2.06	1.40	1.37
12	BA	105	LMT	O2B-C2B	-2.06	1.37	1.43
12	BL	1003	LMT	O2B-C2B	-2.06	1.37	1.43
11	AV	104	BCL	C3D-C4D	-2.06	1.39	1.44
13	bf	101	V7N	C6-C5	2.06	1.40	1.35
11	AR	102	BCL	C3D-C4D	-2.06	1.39	1.44
12	BN	1003	LMT	O2'-C2'	-2.05	1.37	1.43
12	H2	201	LMT	O2'-C2'	-2.05	1.37	1.43
12	BG	1005	LMT	O2B-C2B	-2.05	1.37	1.43
12	BL	1004	LMT	O2B-C2B	-2.05	1.37	1.43
12	bd	102	LMT	O2B-C2B	-2.05	1.37	1.43
11	AV	104	BCL	C1D-ND	2.05	1.40	1.37
11	AS	102	BCL	C3D-C4D	-2.05	1.39	1.44
11	AM	101	BCL	C1D-ND	2.05	1.40	1.37
13	BG	1001	V7N	C19-C18	-2.05	1.41	1.46
13	BW	1001	V7N	C7-C8	2.05	1.40	1.34
12	BD	101	LMT	O2B-C2B	-2.05	1.37	1.43
12	BI	103	LMT	O2B-C2B	-2.05	1.37	1.43
11	AB	105	BCL	C3D-C4D	-2.05	1.39	1.44
11	AH	102	BCL	C3D-C4D	-2.05	1.39	1.44
11	AQ	101	BCL	C1D-ND	2.05	1.40	1.37
13	BB	101	V7N	C6-C5	2.05	1.40	1.35
13	BG	1001	V7N	C6-C5	2.05	1.40	1.35
12	BB	104	LMT	O2B-C2B	-2.05	1.37	1.43
12	BG	1004	LMT	O2B-C2B	-2.05	1.37	1.43
11	AA	1001	BCL	C3D-C4D	-2.05	1.39	1.44
12	AR	103	LMT	O2B-C2B	-2.05	1.37	1.43
12	BO	1004	LMT	O2'-C2'	-2.05	1.37	1.43
12	BE	102	LMT	O2B-C2B	-2.05	1.37	1.43
13	AQ	104	V7N	C12-C13	-2.04	1.41	1.46
11	bc	104	BCL	CHD-C1D	2.04	1.42	1.38
13	BN	1001	V7N	C7-C8	2.04	1.40	1.34
11	AS	104	BCL	C3D-C4D	-2.04	1.39	1.44
12	BI	104	LMT	O2'-C2'	-2.04	1.37	1.43
13	BE	101	V7N	C7-C8	2.04	1.40	1.34
11	AK	103	BCL	C3D-C4D	-2.04	1.39	1.44
12	AK	101	LMT	O2'-C2'	-2.04	1.37	1.43
11	AR	101	BCL	C3D-C4D	-2.04	1.39	1.44
11	AE	102	BCL	C3D-C4D	-2.04	1.39	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	ba	102	V7N	C20-C19	2.03	1.40	1.34
11	AK	103	BCL	C1D-ND	2.03	1.40	1.37
12	L	306	LMT	O2B-C2B	-2.03	1.37	1.43
13	AE	105	V7N	C7-C8	2.03	1.40	1.34
13	AQ	104	V7N	C20-C19	2.03	1.40	1.34
13	BS	1001	V7N	C19-C18	-2.03	1.41	1.46
13	be	102	V7N	C6-C5	2.03	1.40	1.35
13	BP	1001	V7N	C7-C8	2.03	1.40	1.34
12	BU	1002	LMT	O2'-C2'	-2.03	1.37	1.43
11	ak	101	BCL	C3D-C4D	-2.03	1.39	1.44
12	BU	1004	LMT	O2B-C2B	-2.03	1.37	1.43
11	AV	104	BCL	O2A-C1	-2.03	1.40	1.46
11	AX	101	BCL	C1D-ND	2.03	1.40	1.37
11	ag	102	BCL	C3D-C4D	-2.03	1.39	1.44
11	AM	101	BCL	C3D-C4D	-2.03	1.39	1.44
12	BP	1004	LMT	O2'-C2'	-2.03	1.37	1.43
13	bo	102	V7N	C12-C13	-2.02	1.41	1.46
12	BL	1003	LMT	O2'-C2'	-2.02	1.37	1.43
13	BT	1001	V7N	C6-C5	2.02	1.40	1.35
11	AG	102	BCL	C1D-ND	2.02	1.40	1.37
13	aj	103	V7N	C12-C13	-2.02	1.41	1.46
12	BU	1004	LMT	O2'-C2'	-2.02	1.38	1.43
12	BC	103	LMT	O2'-C2'	-2.02	1.38	1.43
11	AW	103	BCL	C3D-C4D	-2.02	1.39	1.44
25	ai	102	UYH	O6-C1	2.02	1.47	1.41
12	BH	1003	LMT	O2'-C2'	-2.02	1.38	1.43
11	AN	102	BCL	C3D-C4D	-2.02	1.39	1.44
13	BJ	1001	V7N	C19-C18	-2.02	1.41	1.46
13	BL	1001	V7N	C19-C18	-2.02	1.41	1.46
13	bp	101	V7N	C12-C13	-2.02	1.41	1.46
12	BX	102	LMT	O2B-C2B	-2.02	1.38	1.43
11	AQ	101	BCL	C3D-C4D	-2.02	1.39	1.44
11	AX	101	BCL	C3D-C4D	-2.02	1.39	1.44
11	AF	101	BCL	C1D-ND	2.02	1.40	1.37
13	AE	105	V7N	C6-C5	2.01	1.40	1.35
11	bl	104	BCL	C3D-C4D	-2.01	1.39	1.44
13	BM	1001	V7N	C7-C8	2.01	1.39	1.34
13	BP	1001	V7N	C6-C5	2.01	1.40	1.35
13	BN	1001	V7N	C19-C18	-2.01	1.41	1.46
13	AE	105	V7N	C19-C18	-2.01	1.41	1.46
12	BP	1005	LMT	O4'-C4B	-2.01	1.38	1.43
11	AE	102	BCL	C1D-ND	2.01	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	bb	101	V7N	C12-C13	-2.01	1.41	1.46
13	bd	101	V7N	C6-C5	2.01	1.40	1.35
11	AA	1002	BCL	C3D-C4D	-2.01	1.39	1.44
13	BW	1001	V7N	C6-C5	2.01	1.40	1.35
13	aj	103	V7N	C20-C19	2.00	1.39	1.34
12	BN	1005	LMT	O4'-C4B	-2.00	1.38	1.43
12	AT	102	LMT	O2'-C2'	-2.00	1.38	1.43
11	AP	101	BCL	C3D-C4D	-2.00	1.39	1.44

All (1983) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ab	101	BCL	C1-C2-C3	10.30	143.08	126.20
11	BS	1006	BCL	C1-O2A-CGA	8.62	137.53	116.65
11	AQ	101	BCL	C1-O2A-CGA	7.61	135.08	116.65
11	AL	103	BCL	C1-O2A-CGA	6.51	132.41	116.65
13	BQ	1001	V7N	C29-C28-C27	-6.51	104.35	123.20
13	BV	1001	V7N	C28-C27-C26	-6.47	108.62	126.36
13	AH	104	V7N	C28-C27-C26	-5.98	109.97	126.36
15	C	404	HEC	CBC-CAC-C3C	-5.87	113.74	127.49
11	AG	102	BCL	C1-C2-C3	5.84	135.77	126.20
13	AW	104	V7N	C28-C27-C26	-5.73	110.64	126.36
11	AJ	101	BCL	C4D-CHA-C1A	5.68	128.02	121.24
15	C	403	HEC	CMC-C2C-C1C	-5.68	120.14	128.46
11	AV	102	BCL	C4D-CHA-C1A	5.67	128.00	121.24
11	bp	104	BCL	C1-C2-C3	5.66	135.47	126.20
15	C	402	HEC	CBC-CAC-C3C	-5.63	114.31	127.49
11	AS	102	BCL	C4D-CHA-C1A	5.62	127.94	121.24
11	AH	102	BCL	C4D-CHA-C1A	5.61	127.93	121.24
11	AN	102	BCL	C4D-CHA-C1A	5.57	127.89	121.24
11	AQ	101	BCL	C4D-CHA-C1A	5.55	127.86	121.24
11	AK	103	BCL	C4D-CHA-C1A	5.53	127.83	121.24
11	ab	101	BCL	C4D-CHA-C1A	5.52	127.83	121.24
11	AS	104	BCL	C4D-CHA-C1A	5.52	127.83	121.24
11	aj	102	BCL	C4D-CHA-C1A	5.51	127.82	121.24
11	BA	103	BCL	C4D-CHA-C1A	5.51	127.82	121.24
11	AE	103	BCL	C4D-CHA-C1A	5.51	127.81	121.24
11	BK	1005	BCL	C4D-CHA-C1A	5.49	127.79	121.24
11	am	1001	BCL	C4D-CHA-C1A	5.48	127.78	121.24
11	AV	104	BCL	C1-O2A-CGA	5.48	129.91	116.65
11	BR	102	BCL	C4D-CHA-C1A	5.47	127.77	121.24
11	AD	101	BCL	C4D-CHA-C1A	5.47	127.77	121.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BB	105	BCL	C4D-CHA-C1A	5.47	127.77	121.24
11	M	403	BCL	C4D-CHA-C1A	5.47	127.77	121.24
11	ah	1001	BCL	C4D-CHA-C1A	5.47	127.76	121.24
11	AV	104	BCL	C4D-CHA-C1A	5.46	127.76	121.24
11	BF	102	BCL	C4D-CHA-C1A	5.46	127.76	121.24
11	AB	103	BCL	C4D-CHA-C1A	5.46	127.76	121.24
11	BW	1002	BCL	C4D-CHA-C1A	5.46	127.75	121.24
11	AX	101	BCL	C4D-CHA-C1A	5.46	127.75	121.24
11	BG	1003	BCL	C4D-CHA-C1A	5.46	127.75	121.24
11	ao	102	BCL	C4D-CHA-C1A	5.45	127.74	121.24
11	BX	103	BCL	C4D-CHA-C1A	5.44	127.74	121.24
11	BJ	1004	BCL	C4D-CHA-C1A	5.44	127.73	121.24
11	AA	1002	BCL	C4D-CHA-C1A	5.42	127.71	121.24
11	aa	1001	BCL	C4D-CHA-C1A	5.42	127.71	121.24
11	BM	1004	BCL	C4D-CHA-C1A	5.42	127.71	121.24
11	AM	101	BCL	C4D-CHA-C1A	5.42	127.71	121.24
11	AI	101	BCL	C4D-CHA-C1A	5.42	127.70	121.24
11	AG	102	BCL	C4D-CHA-C1A	5.41	127.70	121.24
11	AP	102	BCL	C4D-CHA-C1A	5.41	127.70	121.24
11	BP	1002	BCL	C4D-CHA-C1A	5.40	127.69	121.24
15	C	403	HEC	CBB-CAB-C3B	-5.40	114.85	127.49
11	bb	103	BCL	C4D-CHA-C1A	5.40	127.69	121.24
11	AU	101	BCL	C4D-CHA-C1A	5.40	127.68	121.24
11	al	1001	BCL	C4D-CHA-C1A	5.40	127.68	121.24
11	BQ	1002	BCL	C4D-CHA-C1A	5.39	127.68	121.24
11	AL	102	BCL	C4D-CHA-C1A	5.39	127.67	121.24
11	bn	104	BCL	C4D-CHA-C1A	5.39	127.67	121.24
11	BL	1005	BCL	C4D-CHA-C1A	5.39	127.67	121.24
11	AN	103	BCL	C4D-CHA-C1A	5.39	127.67	121.24
11	BD	103	BCL	C4D-CHA-C1A	5.38	127.67	121.24
11	AF	102	BCL	C4D-CHA-C1A	5.38	127.67	121.24
11	BU	1001	BCL	C4D-CHA-C1A	5.38	127.66	121.24
15	C	401	HEC	CMC-C2C-C1C	-5.38	120.58	128.46
11	BT	1002	BCL	C4D-CHA-C1A	5.38	127.66	121.24
11	BO	1005	BCL	C4D-CHA-C1A	5.37	127.65	121.24
11	ap	1001	BCL	C4D-CHA-C1A	5.36	127.64	121.24
11	bj	104	BCL	C4D-CHA-C1A	5.36	127.63	121.24
11	AR	101	BCL	C4D-CHA-C1A	5.36	127.63	121.24
11	AW	101	BCL	C4D-CHA-C1A	5.35	127.63	121.24
11	ae	101	BCL	C4D-CHA-C1A	5.35	127.62	121.24
11	BI	102	BCL	C4D-CHA-C1A	5.34	127.61	121.24
11	ai	101	BCL	C4D-CHA-C1A	5.34	127.61	121.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ad	102	BCL	C4D-CHA-C1A	5.34	127.61	121.24
11	BS	1006	BCL	C4D-CHA-C1A	5.34	127.61	121.24
11	AP	101	BCL	C4D-CHA-C1A	5.33	127.60	121.24
13	ba	102	V7N	C28-C27-C26	-5.33	111.75	126.36
11	ak	101	BCL	C4D-CHA-C1A	5.32	127.59	121.24
11	BN	1004	BCL	C4D-CHA-C1A	5.32	127.59	121.24
11	BV	1002	BCL	C4D-CHA-C1A	5.32	127.59	121.24
11	bp	104	BCL	C4D-CHA-C1A	5.32	127.59	121.24
11	bh	102	BCL	C4D-CHA-C1A	5.32	127.59	121.24
11	ag	102	BCL	C4D-CHA-C1A	5.32	127.59	121.24
11	AW	103	BCL	C4D-CHA-C1A	5.32	127.58	121.24
11	ac	1002	BCL	C4D-CHA-C1A	5.32	127.58	121.24
11	an	1001	BCL	C4D-CHA-C1A	5.32	127.58	121.24
11	AJ	101	BCL	C1-O2A-CGA	5.31	129.51	116.65
11	AE	102	BCL	C4D-CHA-C1A	5.31	127.58	121.24
11	bl	104	BCL	C4D-CHA-C1A	5.29	127.56	121.24
11	L	303	BCL	C4D-CHA-C1A	5.29	127.56	121.24
11	AD	102	BCL	C4D-CHA-C1A	5.29	127.56	121.24
15	C	404	HEC	CBB-CAB-C3B	-5.29	115.11	127.49
11	bc	104	BCL	C4D-CHA-C1A	5.29	127.55	121.24
11	bi	106	BCL	C4D-CHA-C1A	5.29	127.55	121.24
11	bk	1002	BCL	C4D-CHA-C1A	5.29	127.55	121.24
11	bg	1002	BCL	C4D-CHA-C1A	5.29	127.55	121.24
11	BH	1004	BCL	C4D-CHA-C1A	5.28	127.54	121.24
11	BE	103	BCL	C4D-CHA-C1A	5.28	127.54	121.24
11	AL	103	BCL	C4D-CHA-C1A	5.27	127.53	121.24
11	AI	103	BCL	C4D-CHA-C1A	5.27	127.53	121.24
11	AR	102	BCL	C4D-CHA-C1A	5.26	127.52	121.24
11	af	102	BCL	C4D-CHA-C1A	5.26	127.51	121.24
11	bd	103	BCL	C4D-CHA-C1A	5.24	127.50	121.24
13	af	103	V7N	C28-C27-C26	-5.24	111.99	126.36
11	bf	103	BCL	C4D-CHA-C1A	5.24	127.50	121.24
11	AH	101	BCL	C4D-CHA-C1A	5.24	127.49	121.24
11	AQ	102	BCL	C4D-CHA-C1A	5.24	127.49	121.24
13	aj	103	V7N	C28-C27-C26	-5.23	112.02	126.36
13	bn	101	V7N	C28-C27-C26	-5.23	112.02	126.36
13	bf	101	V7N	C29-C28-C27	-5.22	108.07	123.20
11	bm	103	BCL	C4D-CHA-C1A	5.22	127.47	121.24
18	ae	102	CD4	O2-C14-C13	5.21	122.75	111.48
11	BC	105	BCL	C4D-CHA-C1A	5.21	127.45	121.24
18	ad	101	CD4	C15-O2-C14	5.19	130.23	117.80
11	ba	103	BCL	C4D-CHA-C1A	5.19	127.43	121.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	C	402	HEC	CBB-CAB-C3B	-5.18	115.37	127.49
11	AT	101	BCL	C4D-CHA-C1A	5.18	127.42	121.24
11	AK	102	BCL	C4D-CHA-C1A	5.17	127.41	121.24
11	be	105	BCL	C4D-CHA-C1A	5.15	127.38	121.24
11	AM	102	BCL	C4D-CHA-C1A	5.14	127.37	121.24
15	C	402	HEC	CMC-C2C-C1C	-5.13	120.95	128.46
11	M	406	BCL	C4D-CHA-C1A	5.12	127.35	121.24
13	BG	1001	V7N	C28-C27-C26	-5.11	112.34	126.36
11	bo	105	BCL	C4D-CHA-C1A	5.11	127.34	121.24
13	BO	1001	V7N	C28-C27-C26	-5.11	112.35	126.36
11	AS	101	BCL	C4D-CHA-C1A	5.09	127.32	121.24
11	AV	101	BCL	C4D-CHA-C1A	5.09	127.32	121.24
11	AC	1001	BCL	C4D-CHA-C1A	5.09	127.32	121.24
11	AJ	102	BCL	C4D-CHA-C1A	5.07	127.29	121.24
11	AG	101	BCL	C4D-CHA-C1A	5.06	127.28	121.24
11	AB	102	BCL	C4D-CHA-C1A	5.06	127.28	121.24
15	C	401	HEC	CBC-CAC-C3C	-5.04	115.69	127.49
13	AT	103	V7N	C28-C27-C26	-5.04	112.56	126.36
11	AF	101	BCL	C4D-CHA-C1A	5.03	127.24	121.24
11	AU	102	BCL	C4D-CHA-C1A	5.03	127.24	121.24
13	bb	101	V7N	C28-C27-C26	-5.02	112.60	126.36
11	L	304	BCL	C4D-CHA-C1A	5.00	127.20	121.24
11	AA	1001	BCL	C4D-CHA-C1A	4.99	127.19	121.24
13	bj	101	V7N	C29-C28-C27	-4.95	108.85	123.20
15	C	403	HEC	CBC-CAC-C3C	-4.93	115.95	127.49
11	BW	1002	BCL	C1-C2-C3	4.92	134.25	126.20
11	AO	101	BCL	C4D-CHA-C1A	4.89	127.08	121.24
13	BM	1001	V7N	C28-C27-C26	-4.86	113.04	126.36
13	bo	102	V7N	C28-C27-C26	-4.85	113.06	126.36
13	BH	1001	V7N	C28-C27-C26	-4.84	113.10	126.36
13	BK	1001	V7N	C29-C28-C27	-4.84	109.18	123.20
13	bl	101	V7N	C28-C27-C26	-4.74	113.38	126.36
13	BL	1001	V7N	C29-C28-C27	-4.73	109.49	123.20
13	BS	1001	V7N	C28-C27-C26	-4.69	113.49	126.36
11	AQ	101	BCL	CMB-C2B-C1B	-4.67	121.61	128.46
11	M	403	BCL	CMB-C2B-C1B	-4.67	121.62	128.46
15	C	404	HEC	CMC-C2C-C1C	-4.65	121.64	128.46
11	AR	101	BCL	CMB-C2B-C1B	-4.63	121.67	128.46
11	AB	102	BCL	CMB-C2B-C1B	-4.63	121.68	128.46
13	AE	101	V7N	C28-C27-C26	-4.62	113.69	126.36
11	ae	101	BCL	CMB-C2B-C1B	-4.60	121.72	128.46
11	al	1001	BCL	CMB-C2B-C1B	-4.60	121.72	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ah	1001	BCL	CMB-C2B-C1B	-4.59	121.74	128.46
11	ab	101	BCL	C1-O2A-CGA	4.58	127.75	116.65
17	C	406	V75	O3-C3A-C3B	4.57	119.25	111.09
11	ad	102	BCL	CMB-C2B-C1B	-4.56	121.77	128.46
13	BE	101	V7N	C29-C28-C27	-4.55	110.00	123.20
11	af	102	BCL	CMB-C2B-C1B	-4.55	121.78	128.46
13	bd	101	V7N	C28-C27-C26	-4.54	113.90	126.36
11	aj	102	BCL	CMB-C2B-C1B	-4.54	121.80	128.46
13	AE	105	V7N	C29-C28-C27	-4.54	110.06	123.20
15	C	401	HEC	CBB-CAB-C3B	-4.53	116.89	127.49
11	ap	1001	BCL	CMB-C2B-C1B	-4.52	121.83	128.46
13	bp	101	V7N	C28-C27-C26	-4.51	113.99	126.36
11	an	1001	BCL	CMB-C2B-C1B	-4.50	121.86	128.46
13	BW	1001	V7N	C29-C28-C27	-4.50	110.17	123.20
11	ba	103	BCL	CMB-C2B-C1B	-4.50	121.87	128.46
13	BN	1001	V7N	C29-C28-C27	-4.50	110.17	123.20
13	BB	101	V7N	C28-C27-C26	-4.49	114.05	126.36
11	AN	105	BCL	CMB-C2B-C1B	-4.49	121.88	128.46
11	ag	102	BCL	CMB-C2B-C1B	-4.48	121.89	128.46
11	AW	103	BCL	CMB-C2B-C1B	-4.48	121.89	128.46
11	AB	105	BCL	CMB-C2B-C1B	-4.48	121.89	128.46
13	BJ	1001	V7N	C28-C27-C26	-4.47	114.10	126.36
11	am	1001	BCL	CMB-C2B-C1B	-4.47	121.91	128.46
11	AN	102	BCL	CMB-C2B-C1B	-4.47	121.91	128.46
11	BN	1004	BCL	CMB-C2B-C1B	-4.47	121.91	128.46
13	be	102	V7N	C29-C28-C27	-4.47	110.26	123.20
17	M	410	V75	O3-C3A-C3B	4.45	119.02	111.09
17	C	406	V75	O2-C2A-C2B	4.45	119.02	111.09
11	AK	103	BCL	CMB-C2B-C1B	-4.44	121.94	128.46
11	AM	101	BCL	CMB-C2B-C1B	-4.44	121.95	128.46
13	AQ	104	V7N	C29-C28-C27	-4.44	110.34	123.20
11	ak	101	BCL	CMB-C2B-C1B	-4.44	121.95	128.46
13	BT	1001	V7N	C28-C27-C26	-4.44	114.20	126.36
13	bc	101	V7N	C28-C27-C26	-4.44	114.20	126.36
17	M	410	V75	O2-C2A-C2B	4.43	118.99	111.09
11	AS	102	BCL	CMB-C2B-C1B	-4.42	121.98	128.46
11	bh	102	BCL	CMB-C2B-C1B	-4.41	121.99	128.46
13	bi	102	V7N	C28-C27-C26	-4.41	114.26	126.36
11	AG	102	BCL	CMB-C2B-C1B	-4.41	121.99	128.46
11	ai	101	BCL	CMB-C2B-C1B	-4.41	121.99	128.46
11	bi	106	BCL	CMB-C2B-C1B	-4.41	122.00	128.46
18	M	402	CD4	O2-C14-C13	4.40	121.01	111.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ac	1002	BCL	CMB-C2B-C1B	-4.40	122.01	128.46
11	bg	1002	BCL	CMB-C2B-C1B	-4.40	122.01	128.46
11	BV	1002	BCL	CMB-C2B-C1B	-4.40	122.01	128.46
11	bn	104	BCL	CMB-C2B-C1B	-4.40	122.01	128.46
11	BC	105	BCL	CMB-C2B-C1B	-4.39	122.02	128.46
11	BX	103	BCL	CMB-C2B-C1B	-4.39	122.03	128.46
11	ao	102	BCL	CMB-C2B-C1B	-4.39	122.03	128.46
11	AF	101	BCL	CMB-C2B-C1B	-4.39	122.03	128.46
11	AJ	101	BCL	CMB-C2B-C1B	-4.39	122.03	128.46
11	AP	101	BCL	CMB-C2B-C1B	-4.38	122.03	128.46
11	bp	104	BCL	CMB-C2B-C1B	-4.38	122.03	128.46
11	BB	105	BCL	CMB-C2B-C1B	-4.38	122.04	128.46
11	L	304	BCL	CMB-C2B-C1B	-4.37	122.05	128.46
13	bm	101	V7N	C29-C28-C27	-4.37	110.53	123.20
13	BS	1001	V7N	C29-C28-C27	-4.37	110.55	123.20
11	bo	105	BCL	CMB-C2B-C1B	-4.37	122.06	128.46
11	bj	104	BCL	CMB-C2B-C1B	-4.36	122.06	128.46
11	BI	102	BCL	CMB-C2B-C1B	-4.36	122.07	128.46
11	AD	101	BCL	CMB-C2B-C1B	-4.36	122.08	128.46
18	ag	101	CD4	O2-C14-C13	4.35	120.89	111.48
11	BW	1002	BCL	CMB-C2B-C1B	-4.35	122.09	128.46
11	AB	103	BCL	CMB-C2B-C1B	-4.34	122.09	128.46
13	BP	1001	V7N	C28-C27-C26	-4.34	114.46	126.36
11	BU	1001	BCL	CMB-C2B-C1B	-4.34	122.10	128.46
11	AU	101	BCL	CMB-C2B-C1B	-4.34	122.10	128.46
11	bm	103	BCL	CMB-C2B-C1B	-4.33	122.11	128.46
13	BW	1001	V7N	C28-C27-C26	-4.33	114.49	126.36
11	BW	1002	BCL	C1-O2A-CGA	4.33	127.13	116.65
11	BM	1004	BCL	CMB-C2B-C1B	-4.33	122.11	128.46
13	BJ	1001	V7N	C29-C28-C27	-4.32	110.67	123.20
11	BR	102	BCL	CMB-C2B-C1B	-4.32	122.12	128.46
11	AE	102	BCL	CMB-C2B-C1B	-4.32	122.13	128.46
11	AH	102	BCL	CMB-C2B-C1B	-4.32	122.13	128.46
11	AS	104	BCL	CMB-C2B-C1B	-4.32	122.13	128.46
11	BT	1002	BCL	CMB-C2B-C1B	-4.32	122.13	128.46
11	AI	101	BCL	CMB-C2B-C1B	-4.32	122.13	128.46
11	AV	104	BCL	CMB-C2B-C1B	-4.31	122.14	128.46
11	AI	101	BCL	C1-C2-C3	-4.31	119.14	126.20
11	bc	104	BCL	CMB-C2B-C1B	-4.31	122.15	128.46
11	BL	1005	BCL	CMB-C2B-C1B	-4.30	122.15	128.46
11	bf	103	BCL	CMB-C2B-C1B	-4.30	122.16	128.46
15	C	403	HEC	CMB-C2B-C1B	-4.30	122.16	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AV	102	BCL	CMB-C2B-C1B	-4.29	122.17	128.46
11	BA	103	BCL	CMB-C2B-C1B	-4.28	122.18	128.46
13	BC	101	V7N	C29-C28-C27	-4.28	110.81	123.20
11	BE	103	BCL	CMB-C2B-C1B	-4.28	122.19	128.46
15	C	403	HEC	CBD-CAD-C3D	-4.27	105.35	112.54
11	AL	103	BCL	CMB-C2B-C1B	-4.27	122.20	128.46
11	bb	103	BCL	CMB-C2B-C1B	-4.27	122.20	128.46
11	BJ	1004	BCL	CMB-C2B-C1B	-4.27	122.21	128.46
13	bh	101	V7N	C28-C27-C26	-4.26	114.69	126.36
11	BF	102	BCL	CMB-C2B-C1B	-4.25	122.22	128.46
11	bd	103	BCL	CMB-C2B-C1B	-4.25	122.23	128.46
11	AA	1002	BCL	CMB-C2B-C1B	-4.25	122.23	128.46
11	BH	1004	BCL	CMB-C2B-C1B	-4.24	122.24	128.46
11	bl	104	BCL	CMB-C2B-C1B	-4.24	122.24	128.46
12	BB	104	LMT	C1-O1'-C1'	4.24	120.92	113.68
11	bk	1002	BCL	CMB-C2B-C1B	-4.23	122.25	128.46
11	BO	1005	BCL	CMB-C2B-C1B	-4.23	122.26	128.46
13	BP	1001	V7N	C29-C28-C27	-4.22	110.98	123.20
11	BG	1003	BCL	CMB-C2B-C1B	-4.21	122.29	128.46
11	BQ	1002	BCL	CMB-C2B-C1B	-4.21	122.29	128.46
11	BK	1005	BCL	CMB-C2B-C1B	-4.19	122.32	128.46
11	AD	102	BCL	CMB-C2B-C1B	-4.18	122.33	128.46
11	BP	1002	BCL	CMB-C2B-C1B	-4.18	122.33	128.46
12	BE	104	LMT	O1'-C1'-C2'	4.17	114.60	108.27
11	BS	1006	BCL	CMB-C2B-C1B	-4.16	122.36	128.46
13	bc	101	V7N	C29-C28-C27	-4.16	111.14	123.20
13	BE	101	V7N	C28-C27-C26	-4.16	114.97	126.36
11	AM	101	BCL	C1-O2A-CGA	4.16	126.71	116.65
11	AS	104	BCL	C1-O2A-CGA	4.15	126.70	116.65
15	C	401	HEC	CMB-C2B-C1B	-4.14	122.39	128.46
13	bh	101	V7N	C29-C28-C27	-4.14	111.20	123.20
11	be	105	BCL	CMB-C2B-C1B	-4.13	122.40	128.46
11	AK	102	BCL	CMB-C2B-C1B	-4.11	122.43	128.46
13	BC	101	V7N	C28-C27-C26	-4.11	115.09	126.36
11	AM	101	BCL	C1-C2-C3	-4.11	119.47	126.20
11	AN	105	BCL	C4D-CHA-C1A	4.09	126.13	121.24
11	BD	103	BCL	CMB-C2B-C1B	-4.09	122.47	128.46
11	AI	103	BCL	CMB-C2B-C1B	-4.08	122.48	128.46
11	AJ	102	BCL	CMB-C2B-C1B	-4.08	122.48	128.46
13	bi	102	V7N	C29-C28-C27	-4.08	111.39	123.20
11	AP	102	BCL	CMB-C2B-C1B	-4.07	122.50	128.46
11	bb	103	BCL	C1-C2-C3	4.05	132.83	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AC	1001	BCL	CMB-C2B-C1B	-4.04	122.53	128.46
11	AS	101	BCL	CMB-C2B-C1B	-4.04	122.54	128.46
11	AA	1001	BCL	CMB-C2B-C1B	-4.04	122.54	128.46
11	AW	103	BCL	C1-C2-C3	-4.03	119.59	126.20
13	BN	1001	V7N	C28-C27-C26	-4.03	115.31	126.36
11	AV	101	BCL	CMB-C2B-C1B	-4.03	122.56	128.46
13	BM	1001	V7N	C29-C28-C27	-4.03	111.54	123.20
11	AQ	102	BCL	CMB-C2B-C1B	-4.03	122.56	128.46
13	BT	1001	V7N	C15-C14-C13	-4.02	121.64	127.28
11	AP	101	BCL	C1-C2-C3	4.02	132.79	126.20
18	H1	1001	CD4	C15-O2-C14	4.01	127.40	117.80
13	AE	105	V7N	C28-C27-C26	-4.01	115.36	126.36
11	AR	102	BCL	CMB-C2B-C1B	-4.00	122.59	128.46
11	AJ	101	BCL	C1-C2-C3	-4.00	119.64	126.20
11	AE	103	BCL	CMB-C2B-C1B	-4.00	122.59	128.46
11	AX	101	BCL	CMB-C2B-C1B	-4.00	122.60	128.46
11	ab	101	BCL	CMB-C2B-C1B	-4.00	122.60	128.46
11	AN	105	BCL	C1D-ND-C4D	-3.99	103.52	106.31
11	aa	1001	BCL	CMB-C2B-C1B	-3.98	122.62	128.46
11	AW	101	BCL	CMB-C2B-C1B	-3.98	122.63	128.46
11	AT	101	BCL	CMB-C2B-C1B	-3.97	122.64	128.46
11	AO	101	BCL	CMB-C2B-C1B	-3.97	122.65	128.46
11	AB	105	BCL	C4D-CHA-C1A	3.96	125.97	121.24
11	AF	102	BCL	CMB-C2B-C1B	-3.96	122.65	128.46
13	bm	101	V7N	C28-C27-C26	-3.96	115.51	126.36
11	AH	101	BCL	CMB-C2B-C1B	-3.96	122.66	128.46
11	AN	105	BCL	CHD-C1D-ND	-3.95	119.24	124.80
11	AG	101	BCL	CMB-C2B-C1B	-3.95	122.67	128.46
11	AL	103	BCL	C1-C2-C3	-3.95	119.73	126.20
13	BL	1001	V7N	C28-C27-C26	-3.94	115.55	126.36
15	C	402	HEC	CMB-C2B-C1B	-3.94	122.69	128.46
11	AN	103	BCL	CMB-C2B-C1B	-3.93	122.70	128.46
11	AM	102	BCL	CMB-C2B-C1B	-3.92	122.71	128.46
11	AU	102	BCL	CMB-C2B-C1B	-3.91	122.73	128.46
12	BN	1003	LMT	C1-O1'-C1'	3.90	120.35	113.68
11	AV	102	BCL	C4A-NA-C1A	3.89	108.45	106.68
11	AQ	101	BCL	CAA-CBA-CGA	3.89	124.25	113.21
18	M	409	CD4	O2-C14-C13	3.89	119.89	111.48
24	af	101	V7B	O7-C10-C11	3.88	119.88	111.48
11	AQ	101	BCL	C1-C2-C3	-3.88	119.84	126.20
11	AL	102	BCL	CMB-C2B-C1B	-3.88	122.78	128.46
11	AP	101	BCL	C4A-NA-C1A	3.88	108.45	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	C	404	HEC	CMB-C2B-C1B	-3.88	122.78	128.46
12	AT	104	LMT	C3'-C4'-C5'	-3.84	102.43	110.93
11	AP	101	BCL	C1D-ND-C4D	-3.83	103.63	106.31
11	ak	101	BCL	C4A-NA-C1A	3.83	108.42	106.68
11	M	406	BCL	CHD-C1D-ND	-3.82	119.42	124.80
11	AB	102	BCL	CHD-C1D-ND	-3.82	119.43	124.80
13	bd	101	V7N	C29-C28-C27	-3.81	112.17	123.20
11	L	303	BCL	C1D-ND-C4D	-3.80	103.65	106.31
11	M	403	BCL	C4A-NA-C1A	3.79	108.41	106.68
11	AO	101	BCL	C4A-NA-C1A	3.78	108.40	106.68
13	AQ	104	V7N	C7-C6-C5	-3.77	122.00	127.28
11	BS	1006	BCL	C4A-NA-C1A	3.75	108.39	106.68
11	AM	101	BCL	C1D-ND-C4D	-3.74	103.69	106.31
11	L	303	BCL	CMB-C2B-C1B	-3.73	123.00	128.46
11	BC	105	BCL	C4A-NA-C1A	3.73	108.38	106.68
11	AF	101	BCL	CHD-C1D-ND	-3.73	119.56	124.80
13	AQ	104	V7N	C28-C27-C26	-3.72	116.15	126.36
11	AK	103	BCL	CHD-C1D-ND	-3.72	119.56	124.80
11	AD	101	BCL	C1-C2-C3	-3.72	120.10	126.20
11	AS	104	BCL	C1-C2-C3	-3.72	120.11	126.20
11	M	406	BCL	CMB-C2B-C1B	-3.71	123.02	128.46
12	AB	104	LMT	C1-O1'-C1'	3.71	120.02	113.68
11	AH	102	BCL	C1-C2-C3	-3.71	120.12	126.20
11	bk	1002	BCL	C4A-NA-C1A	3.70	108.37	106.68
11	AA	1002	BCL	C4A-NA-C1A	3.69	108.36	106.68
11	AW	101	BCL	C4A-NA-C1A	3.68	108.36	106.68
11	am	1001	BCL	C4A-NA-C1A	3.68	108.36	106.68
11	AU	102	BCL	C4A-NA-C1A	3.67	108.35	106.68
11	BT	1002	BCL	C4A-NA-C1A	3.67	108.35	106.68
11	AK	103	BCL	C1D-ND-C4D	-3.67	103.74	106.31
11	L	303	BCL	CHD-C1D-ND	-3.67	119.64	124.80
11	AI	101	BCL	CHD-C1D-ND	-3.66	119.64	124.80
24	af	101	V7B	C1-O6-C5	3.66	120.88	113.72
11	AA	1002	BCL	C1D-ND-C4D	-3.66	103.74	106.31
13	be	102	V7N	C28-C27-C26	-3.66	116.33	126.36
11	AI	101	BCL	C4A-NA-C1A	3.66	108.35	106.68
13	BV	1001	V7N	C15-C14-C13	-3.65	122.16	127.28
11	AM	101	BCL	CHD-C1D-ND	-3.65	119.67	124.80
11	BH	1004	BCL	C4A-NA-C1A	3.65	108.34	106.68
11	AP	101	BCL	CHD-C1D-ND	-3.64	119.68	124.80
13	bf	101	V7N	C28-C27-C26	-3.64	116.39	126.36
11	an	1001	BCL	C4A-NA-C1A	3.64	108.34	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	aj	103	V7N	C27-C26-C25	3.63	123.55	118.49
12	BC	104	LMT	C1-O1'-C1'	3.63	119.89	113.68
11	AQ	101	BCL	CHD-C1D-ND	-3.62	119.70	124.80
11	ae	101	BCL	C4A-NA-C1A	3.61	108.33	106.68
11	AB	102	BCL	C1D-ND-C4D	-3.61	103.78	106.31
11	ad	102	BCL	C4A-NA-C1A	3.61	108.32	106.68
11	af	102	BCL	C4A-NA-C1A	3.60	108.32	106.68
11	AQ	101	BCL	C1D-ND-C4D	-3.60	103.79	106.31
11	AH	102	BCL	CHD-C1D-ND	-3.60	119.74	124.80
11	AB	105	BCL	CHD-C1D-ND	-3.60	119.74	124.80
11	AN	102	BCL	C4A-NA-C1A	3.60	108.32	106.68
11	bc	104	BCL	C4A-NA-C1A	3.59	108.32	106.68
11	L	304	BCL	CHD-C1D-ND	-3.59	119.75	124.80
11	AK	103	BCL	C1-O2A-CGA	3.58	125.33	116.65
11	ac	1002	BCL	C4A-NA-C1A	3.58	108.31	106.68
11	AG	102	BCL	CHD-C1D-ND	-3.58	119.76	124.80
13	BO	1001	V7N	C7-C6-C5	-3.58	122.26	127.28
11	AC	1001	BCL	C4A-NA-C1A	3.58	108.31	106.68
11	AA	1002	BCL	CHD-C1D-ND	-3.58	119.77	124.80
11	BJ	1004	BCL	C4A-NA-C1A	3.57	108.31	106.68
12	BA	105	LMT	C1-O1'-C1'	3.57	119.77	113.68
13	BK	1001	V7N	C28-C27-C26	-3.56	116.59	126.36
11	AU	101	BCL	CHD-C1D-ND	-3.56	119.79	124.80
11	BF	102	BCL	CHD-C1D-ND	-3.56	119.80	124.80
11	AR	101	BCL	CHD-C1D-ND	-3.55	119.81	124.80
11	AS	104	BCL	CHD-C1D-ND	-3.54	119.81	124.80
13	BM	1001	V7N	C15-C14-C13	-3.54	122.31	127.28
13	bp	101	V7N	C29-C28-C27	-3.54	112.93	123.20
11	BQ	1002	BCL	CHD-C1D-ND	-3.54	119.82	124.80
11	AS	104	BCL	C1D-ND-C4D	-3.54	103.83	106.31
11	AD	102	BCL	C4A-NA-C1A	3.54	108.29	106.68
11	BU	1001	BCL	CHD-C1D-ND	-3.54	119.82	124.80
13	af	103	V7N	C29-C28-C27	-3.54	112.94	123.20
11	AS	102	BCL	CHD-C1D-ND	-3.54	119.83	124.80
15	C	403	HEC	CMB-C2B-C3B	3.53	129.97	125.82
11	AD	101	BCL	CHD-C1D-ND	-3.53	119.83	124.80
11	BE	103	BCL	C1D-ND-C4D	-3.52	103.84	106.31
11	M	406	BCL	C1D-ND-C4D	-3.52	103.84	106.31
11	BR	102	BCL	CHD-C1D-ND	-3.52	119.84	124.80
24	ag	103	V7B	C1-O6-C5	3.52	120.60	113.72
11	BE	103	BCL	CHD-C1D-ND	-3.52	119.85	124.80
11	BA	103	BCL	CHD-C1D-ND	-3.52	119.85	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BP	1002	BCL	C4A-NA-C1A	3.52	108.28	106.68
11	ad	102	BCL	C1D-ND-C4D	-3.52	103.84	106.31
11	AW	103	BCL	CHD-C1D-ND	-3.51	119.86	124.80
11	AJ	101	BCL	C1D-ND-C4D	-3.51	103.85	106.31
11	AN	102	BCL	CHD-C1D-ND	-3.51	119.86	124.80
11	BS	1006	BCL	CHD-C1D-ND	-3.51	119.86	124.80
11	AH	102	BCL	C1D-ND-C4D	-3.51	103.85	106.31
11	aa	1001	BCL	C4A-NA-C1A	3.51	108.28	106.68
11	BB	105	BCL	CHD-C1D-ND	-3.51	119.87	124.80
11	AE	102	BCL	CHD-C1D-ND	-3.51	119.87	124.80
11	AV	104	BCL	CHD-C1D-ND	-3.51	119.87	124.80
13	bm	101	V7N	C27-C26-C25	3.51	123.37	118.49
11	AL	103	BCL	CHD-C1D-ND	-3.50	119.87	124.80
11	BX	103	BCL	CHD-C1D-ND	-3.50	119.87	124.80
20	ao	101	MQ8	C11-C12-C13	-3.50	120.80	126.83
11	BN	1004	BCL	CHD-C1D-ND	-3.50	119.88	124.80
11	ap	1001	BCL	C4A-NA-C1A	3.50	108.28	106.68
11	BO	1005	BCL	CHD-C1D-ND	-3.50	119.88	124.80
12	BE	102	LMT	C3'-C4'-C5'	-3.50	103.18	110.93
11	AV	101	BCL	C4A-NA-C1A	3.50	108.27	106.68
11	BB	105	BCL	C1D-ND-C4D	-3.49	103.86	106.31
11	AV	102	BCL	CHD-C1D-ND	-3.49	119.89	124.80
11	AI	101	BCL	C1D-ND-C4D	-3.49	103.86	106.31
11	bj	104	BCL	C4A-NA-C1A	3.49	108.27	106.68
15	C	401	HEC	CMB-C2B-C3B	3.49	129.92	125.82
11	bg	1002	BCL	CHD-C1D-ND	-3.49	119.89	124.80
11	BH	1004	BCL	CHD-C1D-ND	-3.49	119.89	124.80
11	BW	1002	BCL	CHD-C1D-ND	-3.49	119.89	124.80
12	AK	104	LMT	C1-O1'-C1'	3.49	119.64	113.68
11	AG	102	BCL	C1D-ND-C4D	-3.49	103.87	106.31
11	BK	1005	BCL	CHD-C1D-ND	-3.49	119.90	124.80
11	BK	1005	BCL	C4A-NA-C1A	3.48	108.27	106.68
11	al	1001	BCL	CHD-C1D-ND	-3.48	119.90	124.80
13	be	102	V7N	C27-C26-C25	3.48	123.34	118.49
11	AE	102	BCL	C1-O2A-CGA	3.48	125.07	116.65
11	am	1001	BCL	C1D-ND-C4D	-3.48	103.87	106.31
11	AJ	101	BCL	CHD-C1D-ND	-3.47	119.91	124.80
11	ao	102	BCL	C4A-NA-C1A	3.47	108.26	106.68
13	BB	101	V7N	C29-C28-C27	-3.47	113.14	123.20
11	BI	102	BCL	CHD-C1D-ND	-3.47	119.92	124.80
11	BV	1002	BCL	CHD-C1D-ND	-3.47	119.92	124.80
11	AQ	102	BCL	C4A-NA-C1A	3.47	108.26	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	am	1001	BCL	CHD-C1D-ND	-3.46	119.93	124.80
11	ab	101	BCL	CHD-C1D-ND	-3.46	119.94	124.80
11	aj	102	BCL	CHD-C1D-ND	-3.46	119.94	124.80
11	BD	103	BCL	C4A-NA-C1A	3.45	108.25	106.68
11	BP	1002	BCL	CHD-C1D-ND	-3.45	119.94	124.80
11	ad	102	BCL	CHD-C1D-ND	-3.45	119.94	124.80
11	ah	1001	BCL	CHD-C1D-ND	-3.45	119.94	124.80
11	ap	1001	BCL	C1-O2A-CGA	3.45	125.00	116.65
11	ag	102	BCL	C4A-NA-C1A	3.45	108.25	106.68
11	AM	102	BCL	C4A-NA-C1A	3.45	108.25	106.68
11	AT	101	BCL	C4A-NA-C1A	3.45	108.25	106.68
11	AN	102	BCL	C1D-ND-C4D	-3.44	103.89	106.31
11	BH	1004	BCL	C1D-ND-C4D	-3.44	103.89	106.31
11	BM	1004	BCL	CHD-C1D-ND	-3.44	119.95	124.80
11	ak	101	BCL	CHD-C1D-ND	-3.44	119.96	124.80
11	BT	1002	BCL	CHD-C1D-ND	-3.44	119.96	124.80
11	AV	104	BCL	CAA-CBA-CGA	3.44	122.97	113.21
11	AX	101	BCL	CHA-C1A-NA	-3.44	118.60	126.39
11	AF	102	BCL	C4A-NA-C1A	3.44	108.25	106.68
11	AB	105	BCL	C1D-ND-C4D	-3.44	103.90	106.31
11	aj	102	BCL	C1D-ND-C4D	-3.44	103.90	106.31
11	BM	1004	BCL	C1D-ND-C4D	-3.44	103.90	106.31
12	BU	1004	LMT	C1-O1'-C1'	3.44	119.55	113.68
11	BD	103	BCL	CHD-C1D-ND	-3.44	119.97	124.80
11	bk	1002	BCL	CHD-C1D-ND	-3.44	119.97	124.80
11	AK	102	BCL	C4A-NA-C1A	3.43	108.25	106.68
12	AE	104	LMT	C1-O1'-C1'	3.43	119.54	113.68
11	BJ	1004	BCL	CHD-C1D-ND	-3.43	119.97	124.80
11	AR	102	BCL	C4A-NA-C1A	3.43	108.24	106.68
11	BL	1005	BCL	CHD-C1D-ND	-3.43	119.98	124.80
11	BF	102	BCL	C1D-ND-C4D	-3.43	103.91	106.31
11	M	403	BCL	CHD-C1D-ND	-3.43	119.98	124.80
11	ai	101	BCL	CHD-C1D-ND	-3.42	119.98	124.80
11	BC	105	BCL	CHD-C1D-ND	-3.42	119.98	124.80
11	BD	103	BCL	C1D-ND-C4D	-3.42	103.91	106.31
11	BG	1003	BCL	CHD-C1D-ND	-3.42	119.99	124.80
11	BN	1004	BCL	C1D-ND-C4D	-3.42	103.91	106.31
15	C	402	HEC	CMB-C2B-C3B	3.42	129.84	125.82
11	bb	103	BCL	CHD-C1D-ND	-3.42	119.99	124.80
11	bo	105	BCL	CHD-C1D-ND	-3.42	119.99	124.80
11	AV	102	BCL	C1D-ND-C4D	-3.42	103.92	106.31
12	BI	103	LMT	C1-O1'-C1'	3.41	119.51	113.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ag	102	BCL	CHD-C1D-ND	-3.41	120.00	124.80
11	BP	1002	BCL	C1D-ND-C4D	-3.41	103.92	106.31
11	bl	104	BCL	C1-O2A-CGA	3.41	124.91	116.65
13	BG	1001	V7N	C15-C14-C13	-3.41	122.50	127.28
11	be	105	BCL	CHD-C1D-ND	-3.41	120.01	124.80
11	AF	101	BCL	C1D-ND-C4D	-3.41	103.92	106.31
11	bp	104	BCL	CHD-C1D-ND	-3.41	120.01	124.80
11	BN	1004	BCL	C4A-NA-C1A	3.41	108.23	106.68
11	ae	101	BCL	C1D-ND-C4D	-3.40	103.92	106.31
11	BK	1005	BCL	C1D-ND-C4D	-3.40	103.93	106.31
11	BQ	1002	BCL	C4A-NA-C1A	3.40	108.23	106.68
11	bc	104	BCL	C1D-ND-C4D	-3.40	103.93	106.31
11	BX	103	BCL	C1D-ND-C4D	-3.39	103.93	106.31
11	aa	1001	BCL	CHD-C1D-ND	-3.39	120.03	124.80
11	ap	1001	BCL	CHD-C1D-ND	-3.39	120.03	124.80
11	bc	104	BCL	CHD-C1D-ND	-3.39	120.03	124.80
11	bj	104	BCL	CHD-C1D-ND	-3.39	120.03	124.80
11	BO	1005	BCL	C1D-ND-C4D	-3.39	103.94	106.31
11	ao	102	BCL	CHD-C1D-ND	-3.39	120.04	124.80
12	bj	102	LMT	C1-O1'-C1'	3.39	119.46	113.68
11	BQ	1002	BCL	C1D-ND-C4D	-3.38	103.94	106.31
12	BL	1006	LMT	C1-O1'-C1'	3.38	119.45	113.68
11	ac	1002	BCL	CHD-C1D-ND	-3.38	120.05	124.80
11	an	1001	BCL	CHD-C1D-ND	-3.38	120.05	124.80
11	ap	1001	BCL	C1D-ND-C4D	-3.37	103.94	106.31
11	AX	101	BCL	C4A-NA-C1A	3.37	108.22	106.68
11	bi	106	BCL	CHD-C1D-ND	-3.37	120.06	124.80
11	ah	1001	BCL	C1D-ND-C4D	-3.37	103.95	106.31
11	AA	1001	BCL	CHD-C1D-ND	-3.37	120.06	124.80
11	af	102	BCL	CHD-C1D-ND	-3.36	120.07	124.80
11	AL	102	BCL	C4A-NA-C1A	3.36	108.21	106.68
11	AN	103	BCL	C4A-NA-C1A	3.36	108.21	106.68
11	bj	104	BCL	C1D-ND-C4D	-3.36	103.96	106.31
11	ae	101	BCL	CHD-C1D-ND	-3.36	120.08	124.80
13	BL	1001	V7N	C15-C14-C13	-3.35	122.57	127.28
12	BP	1003	LMT	C1-O1'-C1'	3.35	119.41	113.68
11	BS	1006	BCL	C1D-ND-C4D	-3.35	103.96	106.31
11	AJ	102	BCL	C4A-NA-C1A	3.35	108.21	106.68
11	AK	102	BCL	CHD-C1D-ND	-3.35	120.09	124.80
11	BG	1003	BCL	C1D-ND-C4D	-3.35	103.96	106.31
11	AE	103	BCL	CHD-C1D-ND	-3.35	120.09	124.80
11	BG	1003	BCL	C4A-NA-C1A	3.35	108.21	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BT	1002	BCL	C1D-ND-C4D	-3.35	103.96	106.31
11	aa	1001	BCL	C1D-ND-C4D	-3.35	103.96	106.31
11	BW	1002	BCL	C1D-ND-C4D	-3.35	103.97	106.31
11	AE	103	BCL	C4A-NA-C1A	3.34	108.20	106.68
11	ab	101	BCL	C1D-ND-C4D	-3.34	103.97	106.31
11	bh	102	BCL	C1D-ND-C4D	-3.34	103.97	106.31
11	AV	104	BCL	C1D-ND-C4D	-3.34	103.97	106.31
11	an	1001	BCL	C1D-ND-C4D	-3.34	103.97	106.31
11	AW	103	BCL	C4A-NA-C1A	3.33	108.20	106.68
11	bd	103	BCL	C4A-NA-C1A	3.33	108.20	106.68
11	AD	101	BCL	C1D-ND-C4D	-3.33	103.97	106.31
11	bh	102	BCL	CHD-C1D-ND	-3.33	120.11	124.80
13	AE	101	V7N	C29-C28-C27	-3.33	113.55	123.20
11	bn	104	BCL	CHD-C1D-ND	-3.33	120.12	124.80
11	AR	101	BCL	C1D-ND-C4D	-3.33	103.98	106.31
11	bd	103	BCL	CHD-C1D-ND	-3.33	120.12	124.80
12	BU	1002	LMT	C1-O1'-C1'	3.33	119.36	113.68
11	AO	101	BCL	CHD-C1D-ND	-3.32	120.13	124.80
13	BT	1001	V7N	C29-C28-C27	-3.32	113.57	123.20
11	ba	103	BCL	CHD-C1D-ND	-3.32	120.13	124.80
11	AA	1001	BCL	C4A-NA-C1A	3.32	108.19	106.68
11	ai	101	BCL	C4A-NA-C1A	3.32	108.19	106.68
20	ao	101	MQ8	C12-C11-C3	3.32	120.26	112.08
11	af	102	BCL	C1D-ND-C4D	-3.32	103.98	106.31
11	ac	1002	BCL	C1D-ND-C4D	-3.32	103.98	106.31
11	AR	102	BCL	CHD-C1D-ND	-3.32	120.13	124.80
11	bo	105	BCL	C1D-ND-C4D	-3.32	103.98	106.31
11	bl	104	BCL	C1D-ND-C4D	-3.32	103.99	106.31
12	AQ	103	LMT	C1-O1'-C1'	3.31	119.34	113.68
11	ai	101	BCL	C1D-ND-C4D	-3.31	103.99	106.31
11	BI	102	BCL	C1D-ND-C4D	-3.31	103.99	106.31
13	bo	102	V7N	C29-C28-C27	-3.31	113.60	123.20
11	AD	102	BCL	CHD-C1D-ND	-3.31	120.14	124.80
11	AG	101	BCL	C4A-NA-C1A	3.31	108.19	106.68
11	BU	1001	BCL	C1D-ND-C4D	-3.31	103.99	106.31
12	AA	1003	LMT	C3'-C4'-C5'	-3.31	103.60	110.93
11	AL	103	BCL	C1D-ND-C4D	-3.31	103.99	106.31
11	AS	104	BCL	C4A-NA-C1A	3.31	108.19	106.68
13	bl	101	V7N	C29-C28-C27	-3.30	113.63	123.20
11	bl	104	BCL	CHD-C1D-ND	-3.30	120.16	124.80
12	AT	102	LMT	O5B-C5B-C4B	3.30	115.65	109.70
11	BR	102	BCL	C1D-ND-C4D	-3.30	104.00	106.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ag	102	BCL	C1D-ND-C4D	-3.30	104.00	106.31
11	bk	1002	BCL	C1D-ND-C4D	-3.30	104.00	106.31
11	AW	101	BCL	CHD-C1D-ND	-3.30	120.16	124.80
13	AE	105	V7N	C15-C14-C13	-3.30	122.66	127.28
11	AJ	102	BCL	CHD-C1D-ND	-3.30	120.16	124.80
11	AG	101	BCL	CHD-C1D-ND	-3.29	120.17	124.80
11	AW	103	BCL	C1D-ND-C4D	-3.29	104.00	106.31
11	AF	102	BCL	CHD-C1D-ND	-3.29	120.17	124.80
11	bm	103	BCL	CHD-C1D-ND	-3.29	120.17	124.80
13	bp	101	V7N	O44-C40-O45	-3.29	116.06	123.90
11	AX	101	BCL	CHD-C1D-ND	-3.29	120.17	124.80
11	BA	103	BCL	C1D-ND-C4D	-3.29	104.00	106.31
11	AM	102	BCL	CHD-C1D-ND	-3.29	120.17	124.80
11	al	1001	BCL	C1D-ND-C4D	-3.29	104.00	106.31
11	AQ	102	BCL	CHD-C1D-ND	-3.28	120.18	124.80
11	AH	101	BCL	CHD-C1D-ND	-3.28	120.18	124.80
11	AI	103	BCL	C4A-NA-C1A	3.28	108.18	106.68
11	AS	101	BCL	C4A-NA-C1A	3.28	108.18	106.68
11	bh	102	BCL	C4A-NA-C1A	3.28	108.18	106.68
11	L	304	BCL	C1D-ND-C4D	-3.28	104.01	106.31
11	M	403	BCL	CHA-C1A-NA	-3.28	118.97	126.39
12	AK	101	LMT	C3'-C4'-C5'	-3.28	103.66	110.93
11	AB	103	BCL	CHD-C1D-ND	-3.28	120.19	124.80
15	C	402	HEC	CBD-CAD-C3D	-3.28	107.03	112.54
11	AJ	101	BCL	C4A-NA-C1A	3.28	108.17	106.68
11	ak	101	BCL	C1D-ND-C4D	-3.28	104.01	106.31
11	BJ	1004	BCL	C1D-ND-C4D	-3.28	104.01	106.31
13	af	103	V7N	O44-C40-O45	-3.27	116.10	123.90
15	C	404	HEC	CMB-C2B-C3B	3.27	129.67	125.82
11	bg	1002	BCL	C1D-ND-C4D	-3.27	104.02	106.31
11	AW	103	BCL	C1-O2A-CGA	3.27	124.57	116.65
11	AN	103	BCL	CHD-C1D-ND	-3.27	120.20	124.80
13	bo	102	V7N	O44-C40-O45	-3.27	116.12	123.90
13	ba	102	V7N	O44-C40-O45	-3.27	116.12	123.90
11	M	403	BCL	C1D-ND-C4D	-3.27	104.02	106.31
11	bp	104	BCL	C1D-ND-C4D	-3.27	104.02	106.31
11	AP	102	BCL	CHD-C1D-ND	-3.26	120.21	124.80
11	bb	103	BCL	C1D-ND-C4D	-3.26	104.02	106.31
11	AS	102	BCL	C1D-ND-C4D	-3.26	104.02	106.31
11	AT	101	BCL	CHD-C1D-ND	-3.26	120.22	124.80
11	AL	102	BCL	CHD-C1D-ND	-3.26	120.22	124.80
11	ao	102	BCL	C1D-ND-C4D	-3.26	104.03	106.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	bb	103	BCL	C4A-NA-C1A	3.25	108.16	106.68
13	bn	101	V7N	O44-C40-O45	-3.25	116.15	123.90
13	bj	101	V7N	C28-C27-C26	-3.25	117.44	126.36
11	AI	103	BCL	CHD-C1D-ND	-3.25	120.23	124.80
11	AC	1001	BCL	CHD-C1D-ND	-3.25	120.23	124.80
13	be	102	V7N	C35-C13-C12	3.25	123.05	118.09
11	bf	103	BCL	CHD-C1D-ND	-3.25	120.23	124.80
11	AS	101	BCL	CHD-C1D-ND	-3.25	120.23	124.80
11	AF	101	BCL	C4A-NA-C1A	3.25	108.16	106.68
11	AK	103	BCL	CHA-C1A-NA	-3.24	119.04	126.39
11	AV	101	BCL	CHD-C1D-ND	-3.24	120.24	124.80
11	AU	102	BCL	CHD-C1D-ND	-3.24	120.24	124.80
13	AT	103	V7N	O44-C40-O45	-3.24	116.19	123.90
11	BB	105	BCL	C4A-NA-C1A	3.24	108.16	106.68
11	BF	102	BCL	C4A-NA-C1A	3.24	108.16	106.68
13	af	103	V7N	C27-C26-C25	3.24	123.00	118.49
13	aj	103	V7N	C29-C28-C27	-3.23	113.84	123.20
11	bb	103	BCL	CBA-CAA-C2A	3.23	123.40	113.79
11	AL	102	BCL	CHA-C1A-NA	-3.23	119.09	126.39
11	bo	105	BCL	C4A-NA-C1A	3.22	108.15	106.68
13	BE	101	V7N	O44-C40-O45	-3.22	116.22	123.90
13	BC	101	V7N	O44-C40-O45	-3.22	116.23	123.90
13	BP	1001	V7N	O44-C40-O45	-3.22	116.23	123.90
11	bl	104	BCL	CHA-C1A-NA	-3.22	119.10	126.39
13	AQ	104	V7N	O44-C40-O45	-3.22	116.24	123.90
13	bd	101	V7N	O44-C40-O45	-3.22	116.24	123.90
13	AT	103	V7N	C29-C28-C27	-3.22	113.88	123.20
13	bi	102	V7N	O44-C40-O45	-3.22	116.24	123.90
24	af	101	V7B	C43-O4-C4	-3.22	110.35	117.98
14	bk	1003	OV9	C2-O2-C10	3.22	125.49	117.80
11	AB	103	BCL	C4A-NA-C1A	3.21	108.14	106.68
11	AW	101	BCL	C1D-ND-C4D	-3.21	104.06	106.31
11	AT	101	BCL	CHA-C1A-NA	-3.21	119.12	126.39
11	bd	103	BCL	C1D-ND-C4D	-3.21	104.06	106.31
13	AB	101	V7N	O44-C40-O45	-3.21	116.26	123.90
13	BL	1001	V7N	O44-C40-O45	-3.21	116.26	123.90
11	AI	103	BCL	CHA-C1A-NA	-3.21	119.13	126.39
11	AO	101	BCL	C1D-ND-C4D	-3.20	104.06	106.31
11	AP	102	BCL	C4A-NA-C1A	3.20	108.14	106.68
13	bm	101	V7N	O44-C40-O45	-3.20	116.28	123.90
13	AE	105	V7N	O44-C40-O45	-3.20	116.28	123.90
13	BJ	1001	V7N	O44-C40-O45	-3.20	116.28	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	bb	101	V7N	O44-C40-O45	-3.20	116.28	123.90
11	BM	1004	BCL	C4A-NA-C1A	3.20	108.14	106.68
11	AI	101	BCL	C1-O2A-CGA	3.20	124.39	116.65
11	AA	1001	BCL	C1D-ND-C4D	-3.20	104.07	106.31
11	ah	1001	BCL	C4A-NA-C1A	3.20	108.14	106.68
13	bj	101	V7N	O44-C40-O45	-3.20	116.29	123.90
11	AS	101	BCL	CHA-C1A-NA	-3.19	119.16	126.39
11	AR	102	BCL	C1D-ND-C4D	-3.19	104.07	106.31
13	bh	101	V7N	O44-C40-O45	-3.19	116.30	123.90
11	AJ	102	BCL	C1D-ND-C4D	-3.19	104.07	106.31
12	AH	103	LMT	C1-O1'-C1'	3.19	119.13	113.68
13	bl	101	V7N	O44-C40-O45	-3.19	116.30	123.90
13	aj	103	V7N	O44-C40-O45	-3.19	116.30	123.90
13	bc	101	V7N	O44-C40-O45	-3.19	116.31	123.90
11	AG	101	BCL	C1D-ND-C4D	-3.19	104.08	106.31
11	BC	105	BCL	C1D-ND-C4D	-3.18	104.08	106.31
13	BO	1001	V7N	O44-C40-O45	-3.18	116.32	123.90
13	AE	101	V7N	O44-C40-O45	-3.18	116.32	123.90
11	AB	103	BCL	C1D-ND-C4D	-3.18	104.08	106.31
13	BN	1001	V7N	O44-C40-O45	-3.18	116.33	123.90
11	AC	1001	BCL	CHA-C1A-NA	-3.18	119.19	126.39
14	be	104	OV9	C2-O2-C10	3.18	125.41	117.80
11	AK	102	BCL	C1D-ND-C4D	-3.18	104.08	106.31
11	AN	103	BCL	CHA-C1A-NA	-3.18	119.19	126.39
13	BV	1001	V7N	O44-C40-O45	-3.18	116.33	123.90
13	AW	104	V7N	O44-C40-O45	-3.18	116.34	123.90
13	be	102	V7N	O44-C40-O45	-3.18	116.34	123.90
11	al	1001	BCL	C4A-NA-C1A	3.18	108.13	106.68
11	BI	102	BCL	CHA-C1A-NA	-3.18	119.20	126.39
11	bi	106	BCL	C1D-ND-C4D	-3.17	104.09	106.31
11	bf	103	BCL	C1D-ND-C4D	-3.17	104.09	106.31
12	BE	104	LMT	C1'-O5'-C5'	-3.17	107.53	113.72
11	AP	102	BCL	CHA-C1A-NA	-3.17	119.22	126.39
11	AE	102	BCL	C1D-ND-C4D	-3.17	104.09	106.31
11	ab	101	BCL	C4A-NA-C1A	3.17	108.12	106.68
12	BH	1002	LMT	C3'-C4'-C5'	-3.17	103.91	110.93
12	BR	104	LMT	C3'-C4'-C5'	-3.17	103.91	110.93
11	AQ	102	BCL	CHA-C1A-NA	-3.16	119.22	126.39
11	bl	104	BCL	C4A-NA-C1A	3.16	108.12	106.68
11	AM	102	BCL	C1D-ND-C4D	-3.16	104.09	106.31
13	BW	1001	V7N	O44-C40-O45	-3.16	116.37	123.90
11	BL	1005	BCL	C1D-ND-C4D	-3.16	104.09	106.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AH	104	V7N	C7-C6-C5	-3.16	122.84	127.28
11	AV	101	BCL	CHA-C1A-NA	-3.16	119.23	126.39
11	AX	101	BCL	C1D-ND-C4D	-3.16	104.09	106.31
11	AB	103	BCL	CHA-C1A-NA	-3.16	119.24	126.39
11	bf	103	BCL	C4A-NA-C1A	3.16	108.12	106.68
13	BM	1001	V7N	O44-C40-O45	-3.16	116.38	123.90
11	AW	101	BCL	CHA-C1A-NA	-3.16	119.25	126.39
21	M	404	BPH	OBD-CAD-CBD	-3.16	121.19	125.82
13	BG	1001	V7N	O44-C40-O45	-3.15	116.39	123.90
11	AE	103	BCL	CHA-C1A-NA	-3.15	119.25	126.39
21	L	309	BPH	OBD-CAD-CBD	-3.15	121.20	125.82
11	BL	1005	BCL	CHA-C1A-NA	-3.15	119.25	126.39
11	BU	1001	BCL	CHA-C1A-NA	-3.15	119.26	126.39
11	AJ	102	BCL	CHA-C1A-NA	-3.15	119.26	126.39
11	AU	102	BCL	C1D-ND-C4D	-3.15	104.10	106.31
11	bn	104	BCL	C1D-ND-C4D	-3.15	104.11	106.31
11	AF	102	BCL	C1D-ND-C4D	-3.14	104.11	106.31
11	BV	1002	BCL	C1D-ND-C4D	-3.14	104.11	106.31
11	AA	1002	BCL	CHA-C1A-NA	-3.14	119.28	126.39
13	BB	101	V7N	O44-C40-O45	-3.14	116.43	123.90
11	AK	102	BCL	CHA-C1A-NA	-3.14	119.28	126.39
11	AU	102	BCL	CHA-C1A-NA	-3.14	119.28	126.39
13	AH	104	V7N	O44-C40-O45	-3.14	116.43	123.90
11	AF	102	BCL	CHA-C1A-NA	-3.14	119.29	126.39
11	AD	102	BCL	CHA-C1A-NA	-3.14	119.29	126.39
11	AE	103	BCL	C1D-ND-C4D	-3.14	104.11	106.31
11	AP	102	BCL	C1D-ND-C4D	-3.14	104.11	106.31
19	H1	1003	PGW	C02-O01-C1	3.13	125.30	117.80
11	BO	1005	BCL	CHA-C1A-NA	-3.13	119.30	126.39
12	BM	1002	LMT	C1-O1'-C1'	3.13	119.03	113.68
13	BH	1001	V7N	O44-C40-O45	-3.13	116.44	123.90
13	bf	101	V7N	O44-C40-O45	-3.13	116.44	123.90
11	AD	102	BCL	C1D-ND-C4D	-3.13	104.12	106.31
11	aj	102	BCL	CHA-C1A-NA	-3.13	119.31	126.39
18	ag	101	CD4	C15-O2-C14	3.13	125.28	117.80
13	AB	101	V7N	C36-C18-C19	3.13	122.86	118.09
13	BT	1001	V7N	O44-C40-O45	-3.12	116.46	123.90
11	AJ	101	BCL	CHA-C1A-NA	-3.12	119.32	126.39
11	be	105	BCL	C1D-ND-C4D	-3.12	104.12	106.31
11	AO	101	BCL	CHA-C1A-NA	-3.12	119.32	126.39
12	BL	1006	LMT	C3'-C4'-C5'	-3.12	104.01	110.93
11	AR	102	BCL	CHA-C1A-NA	-3.12	119.33	126.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AQ	102	BCL	C1D-ND-C4D	-3.12	104.12	106.31
11	BM	1004	BCL	CHA-C1A-NA	-3.12	119.33	126.39
11	AG	101	BCL	CHA-C1A-NA	-3.12	119.33	126.39
13	BK	1001	V7N	O44-C40-O45	-3.12	116.48	123.90
11	AM	101	BCL	C4A-NA-C1A	3.12	108.10	106.68
11	BX	103	BCL	CHA-C1A-NA	-3.11	119.34	126.39
11	AA	1001	BCL	CHA-C1A-NA	-3.11	119.34	126.39
12	AK	104	LMT	C3'-C4'-C5'	-3.11	104.03	110.93
13	BQ	1001	V7N	O44-C40-O45	-3.11	116.49	123.90
11	bm	103	BCL	C1D-ND-C4D	-3.11	104.13	106.31
11	AN	105	BCL	C4A-NA-C1A	3.11	108.10	106.68
13	BS	1001	V7N	O44-C40-O45	-3.11	116.50	123.90
11	AH	101	BCL	CHA-C1A-NA	-3.11	119.35	126.39
11	AM	102	BCL	CHA-C1A-NA	-3.11	119.35	126.39
11	BR	102	BCL	CHA-C1A-NA	-3.11	119.35	126.39
11	BB	105	BCL	CHA-C1A-NA	-3.10	119.36	126.39
11	BT	1002	BCL	CHA-C1A-NA	-3.10	119.37	126.39
11	BI	102	BCL	C4A-NA-C1A	3.10	108.09	106.68
12	BD	101	LMT	C1-O1'-C1'	3.10	118.97	113.68
16	C	405	NDG	C1-O5-C5	3.10	116.33	112.19
11	AB	103	BCL	C1-C2-C3	3.10	131.27	126.20
11	BV	1002	BCL	CHA-C1A-NA	-3.09	119.39	126.39
11	AV	102	BCL	CHA-C1A-NA	-3.09	119.39	126.39
11	AS	101	BCL	C1D-ND-C4D	-3.09	104.14	106.31
12	BL	1003	LMT	C3'-C4'-C5'	-3.09	104.08	110.93
11	BG	1003	BCL	CHA-C1A-NA	-3.09	119.39	126.39
11	AL	103	BCL	C4A-NA-C1A	3.09	108.09	106.68
11	BD	103	BCL	CHA-C1A-NA	-3.09	119.40	126.39
11	AV	101	BCL	C1D-ND-C4D	-3.09	104.14	106.31
11	ba	103	BCL	C1D-ND-C4D	-3.08	104.15	106.31
13	AQ	104	V7N	C15-C14-C13	-3.08	122.95	127.28
11	BH	1004	BCL	CHA-C1A-NA	-3.08	119.41	126.39
12	BF	104	LMT	C1'-O5'-C5'	-3.08	107.71	113.72
12	BH	1002	LMT	C1-O1'-C1'	3.07	118.93	113.68
11	BP	1002	BCL	CHA-C1A-NA	-3.07	119.43	126.39
11	BK	1005	BCL	CHA-C1A-NA	-3.07	119.44	126.39
11	AU	101	BCL	C4A-NA-C1A	3.07	108.08	106.68
11	bd	103	BCL	C1-O2A-CGA	3.07	124.08	116.65
13	AB	101	V7N	C43-C39-C40	-3.07	111.01	115.69
11	ah	1001	BCL	CHA-C1A-NA	-3.07	119.45	126.39
11	AI	103	BCL	C1D-ND-C4D	-3.06	104.16	106.31
13	bl	101	V7N	C27-C26-C25	3.06	122.76	118.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AH	102	BCL	CHA-C1A-NA	-3.06	119.45	126.39
11	BE	103	BCL	CHA-C1A-NA	-3.06	119.45	126.39
11	BA	103	BCL	CHA-C1A-NA	-3.06	119.45	126.39
11	AU	101	BCL	C1D-ND-C4D	-3.06	104.16	106.31
11	AP	101	BCL	CHA-C1A-NA	-3.06	119.46	126.39
11	BO	1005	BCL	C4A-NA-C1A	3.06	108.08	106.68
11	BF	102	BCL	CHA-C1A-NA	-3.06	119.46	126.39
12	BT	1005	LMT	C1-O1'-C1'	3.06	118.91	113.68
11	AF	101	BCL	CHA-C1A-NA	-3.06	119.46	126.39
11	BC	105	BCL	CHA-C1A-NA	-3.06	119.46	126.39
11	AQ	101	BCL	C4A-NA-C1A	3.06	108.08	106.68
13	BO	1001	V7N	C29-C28-C27	-3.06	114.34	123.20
11	AL	102	BCL	C1D-ND-C4D	-3.06	104.17	106.31
11	AG	102	BCL	C4A-NA-C1A	3.06	108.07	106.68
11	ba	103	BCL	CHA-C1A-NA	-3.05	119.47	126.39
13	bl	101	V7N	C33-C5-C4	3.05	122.75	118.09
13	BP	1001	V7N	C15-C14-C13	-3.05	123.00	127.28
11	AH	101	BCL	C1D-ND-C4D	-3.05	104.17	106.31
12	BF	104	LMT	C1-O1'-C1'	3.05	118.88	113.68
12	BT	1005	LMT	C3'-C4'-C5'	-3.04	104.18	110.93
11	BQ	1002	BCL	CHA-C1A-NA	-3.04	119.51	126.39
11	BW	1002	BCL	CHA-C1A-NA	-3.04	119.51	126.39
11	AT	101	BCL	C1D-ND-C4D	-3.04	104.18	106.31
11	AG	102	BCL	CHA-C1A-NA	-3.04	119.52	126.39
12	BQ	1004	LMT	C3'-C4'-C5'	-3.04	104.20	110.93
11	BN	1004	BCL	CHA-C1A-NA	-3.04	119.52	126.39
11	bm	103	BCL	CHA-C1A-NA	-3.03	119.52	126.39
12	BK	1004	LMT	C1-O1'-C1'	3.03	118.86	113.68
11	BV	1002	BCL	C4A-NA-C1A	3.03	108.06	106.68
11	AQ	101	BCL	CBA-CAA-C2A	3.03	122.80	113.79
18	ae	102	CD4	O16-C46-C47	3.03	118.03	111.48
11	AH	101	BCL	C4A-NA-C1A	3.02	108.06	106.68
12	AS	103	LMT	O1'-C1'-C2'	3.02	112.87	108.27
24	ag	103	V7B	O7-C10-C11	3.02	118.02	111.48
11	bn	104	BCL	CHA-C1A-NA	-3.02	119.54	126.39
13	BN	1001	V7N	C15-C14-C13	-3.02	123.04	127.28
13	bi	102	V7N	C20-C21-C22	-3.02	123.44	127.69
11	AU	101	BCL	CHA-C1A-NA	-3.02	119.55	126.39
11	AS	102	BCL	CHA-C1A-NA	-3.02	119.56	126.39
11	AN	103	BCL	C1D-ND-C4D	-3.02	104.19	106.31
11	AE	102	BCL	C4A-NA-C1A	3.02	108.06	106.68
11	BE	103	BCL	C4A-NA-C1A	3.02	108.06	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AM	101	BCL	CHA-C1A-NA	-3.01	119.56	126.39
11	AC	1001	BCL	C1D-ND-C4D	-3.01	104.20	106.31
11	AR	101	BCL	C4A-NA-C1A	3.01	108.05	106.68
11	AQ	101	BCL	CMB-C2B-C3B	3.01	130.69	124.68
13	AH	104	V7N	C15-C14-C13	-3.01	123.06	127.28
11	AS	104	BCL	CHA-C1A-NA	-3.00	119.59	126.39
11	bh	102	BCL	CHA-C1A-NA	-3.00	119.59	126.39
11	AN	102	BCL	CHA-C1A-NA	-3.00	119.61	126.39
11	aa	1001	BCL	CHA-C1A-NA	-3.00	119.61	126.39
13	bp	101	V7N	C27-C26-C25	3.00	122.66	118.49
11	AD	101	BCL	CHA-C1A-NA	-2.99	119.61	126.39
11	bi	106	BCL	CHA-C1A-NA	-2.99	119.62	126.39
11	bb	103	BCL	CHA-C1A-NA	-2.99	119.62	126.39
11	bf	103	BCL	CBA-CAA-C2A	2.99	122.69	113.79
11	M	403	BCL	CMB-C2B-C3B	2.99	130.66	124.68
11	L	303	BCL	CHA-C1A-NA	-2.99	119.63	126.39
11	ad	102	BCL	CHA-C1A-NA	-2.99	119.63	126.39
11	bf	103	BCL	CHA-C1A-NA	-2.98	119.65	126.39
11	AL	103	BCL	CHA-C1A-NA	-2.98	119.65	126.39
13	bm	101	V7N	C35-C13-C12	2.98	122.63	118.09
11	ak	101	BCL	CHA-C1A-NA	-2.98	119.65	126.39
11	ac	1002	BCL	CHA-C1A-NA	-2.97	119.66	126.39
11	ae	101	BCL	CHA-C1A-NA	-2.97	119.66	126.39
11	be	105	BCL	CHA-C1A-NA	-2.97	119.66	126.39
13	AE	101	V7N	C36-C18-C19	2.97	122.63	118.09
11	BS	1006	BCL	CHA-C1A-NA	-2.97	119.66	126.39
11	ag	102	BCL	CHA-C1A-NA	-2.97	119.67	126.39
11	bp	104	BCL	C4A-NA-C1A	2.97	108.03	106.68
11	BR	102	BCL	C1-C2-C3	-2.97	121.34	126.20
18	M	409	CD4	O16-C46-C47	2.97	117.90	111.48
11	AB	102	BCL	CMB-C2B-C3B	2.97	130.61	124.68
11	AR	101	BCL	CMB-C2B-C3B	2.97	130.61	124.68
13	BG	1001	V7N	C36-C18-C19	2.96	122.62	118.09
11	ap	1001	BCL	CHA-C1A-NA	-2.96	119.69	126.39
12	AG	103	LMT	O1'-C1'-C2'	2.96	112.76	108.27
11	BK	1005	BCL	C1-C2-C3	2.96	131.04	126.20
11	AF	101	BCL	C1-C2-C3	-2.96	121.36	126.20
12	BE	104	LMT	C1-O1'-C1'	2.96	118.73	113.68
18	M	402	CD4	O3-C16-C15	-2.95	99.88	108.40
11	bj	104	BCL	CHA-C1A-NA	-2.95	119.70	126.39
11	bd	103	BCL	CHA-C1A-NA	-2.95	119.70	126.39
13	BM	1001	V7N	C27-C26-C25	2.95	122.60	118.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	an	1001	BCL	CHA-C1A-NA	-2.95	119.71	126.39
13	BM	1001	V7N	C38-C26-C27	-2.95	113.58	118.09
11	bg	1002	BCL	CHA-C1A-NA	-2.95	119.71	126.39
11	bc	104	BCL	CHA-C1A-NA	-2.95	119.71	126.39
11	al	1001	BCL	CMB-C2B-C3B	2.95	130.57	124.68
11	AI	101	BCL	CHA-C1A-NA	-2.95	119.72	126.39
13	bd	101	V7N	C27-C26-C25	2.95	122.59	118.49
18	ad	101	CD4	O16-C46-C47	2.95	117.86	111.48
11	ai	101	BCL	CHA-C1A-NA	-2.95	119.72	126.39
11	bk	1002	BCL	CBA-CAA-C2A	2.94	122.55	113.79
11	AW	103	BCL	CHA-C1A-NA	-2.94	119.72	126.39
11	AT	101	BCL	C2A-C1A-CHA	2.94	128.97	123.87
12	BW	1004	LMT	O1'-C1'-C2'	2.94	112.74	108.27
13	BH	1001	V7N	C29-C28-C27	-2.94	114.68	123.20
11	AV	104	BCL	CHA-C1A-NA	-2.94	119.74	126.39
11	AR	101	BCL	CHA-C1A-NA	-2.93	119.75	126.39
11	AE	102	BCL	CHA-C1A-NA	-2.93	119.75	126.39
11	ae	101	BCL	CMB-C2B-C3B	2.93	130.55	124.68
11	ah	1001	BCL	CMB-C2B-C3B	2.93	130.54	124.68
11	af	102	BCL	CMB-C2B-C3B	2.93	130.54	124.68
13	BQ	1001	V7N	C20-C21-C22	-2.93	123.57	127.69
11	ao	102	BCL	CHA-C1A-NA	-2.93	119.76	126.39
11	bi	106	BCL	C4A-NA-C1A	2.93	108.01	106.68
12	BW	1003	LMT	O1'-C1'-C2'	2.93	112.72	108.27
12	BS	1003	LMT	C3'-C4'-C5'	-2.92	104.45	110.93
11	ad	102	BCL	CMB-C2B-C3B	2.92	130.53	124.68
13	BM	1001	V7N	C36-C18-C19	2.92	122.55	118.09
11	AK	102	BCL	C2A-C1A-CHA	2.92	128.94	123.87
11	bo	105	BCL	CHA-C1A-NA	-2.92	119.78	126.39
12	L	306	LMT	C1-O1'-C1'	2.92	118.67	113.68
11	al	1001	BCL	CHA-C1A-NA	-2.92	119.78	126.39
11	AQ	101	BCL	CHA-C1A-NA	-2.92	119.78	126.39
11	BJ	1004	BCL	CHA-C1A-NA	-2.92	119.78	126.39
13	AH	104	V7N	C3-C4-C5	2.91	130.29	125.89
12	BM	1002	LMT	C3'-C4'-C5'	-2.91	104.47	110.93
11	bk	1002	BCL	CHA-C1A-NA	-2.91	119.80	126.39
16	C1	301	NDG	C1-O5-C5	2.91	116.08	112.19
13	BS	1001	V7N	C38-C26-C27	-2.91	113.64	118.09
11	AQ	102	BCL	C2A-C1A-CHA	2.91	128.91	123.87
11	BX	103	BCL	C4A-NA-C1A	2.91	108.00	106.68
11	BW	1002	BCL	CAA-CBA-CGA	2.90	121.45	113.21
11	an	1001	BCL	CMB-C2B-C3B	2.90	130.48	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BK	1001	V7N	C20-C21-C22	-2.90	123.61	127.69
11	AB	105	BCL	CHA-C1A-NA	-2.90	119.83	126.39
11	AS	101	BCL	C2A-C1A-CHA	2.90	128.90	123.87
11	be	105	BCL	C4A-NA-C1A	2.89	108.00	106.68
11	AB	105	BCL	CMB-C2B-C3B	2.89	130.46	124.68
12	BH	1003	LMT	C3'-C4'-C5'	-2.89	104.52	110.93
11	af	102	BCL	CHA-C1A-NA	-2.89	119.85	126.39
11	ab	101	BCL	CHA-C1A-NA	-2.89	119.85	126.39
14	bc	103	0V9	C2-O2-C10	2.89	124.71	117.80
11	BA	103	BCL	C4A-NA-C1A	2.89	108.00	106.68
12	AH	103	LMT	C3'-C4'-C5'	-2.89	104.53	110.93
11	L	304	BCL	CHA-C1A-NA	-2.88	119.86	126.39
11	am	1001	BCL	CHA-C1A-NA	-2.88	119.86	126.39
13	BK	1001	V7N	C35-C13-C12	2.88	122.49	118.09
13	BH	1001	V7N	C7-C6-C5	-2.88	123.24	127.28
11	ak	101	BCL	CMB-C2B-C3B	2.88	130.44	124.68
12	BJ	1002	LMT	C1-O1'-C1'	2.88	118.60	113.68
13	BT	1001	V7N	C36-C18-C19	2.88	122.48	118.09
12	bn	103	LMT	O5B-C5B-C4B	2.88	114.88	109.70
11	ap	1001	BCL	CMB-C2B-C3B	2.88	130.43	124.68
12	bn	103	LMT	C1B-O5B-C5B	2.88	119.33	113.72
13	BJ	1001	V7N	C38-C26-C27	-2.87	113.70	118.09
13	BJ	1001	V7N	C36-C18-C19	2.87	122.48	118.09
11	AG	102	BCL	CMB-C2B-C3B	2.87	130.42	124.68
11	BW	1002	BCL	C4A-NA-C1A	2.87	107.99	106.68
11	AN	105	BCL	CMB-C2B-C3B	2.87	130.42	124.68
11	AJ	102	BCL	C2A-C1A-CHA	2.87	128.84	123.87
11	AN	103	BCL	C2A-C1A-CHA	2.87	128.84	123.87
13	AW	104	V7N	C27-C26-C25	2.87	122.48	118.49
11	bp	104	BCL	CHA-C1A-NA	-2.87	119.90	126.39
11	AS	102	BCL	CMB-C2B-C3B	2.87	130.41	124.68
11	AN	102	BCL	CMB-C2B-C3B	2.87	130.41	124.68
11	aj	102	BCL	CMB-C2B-C3B	2.87	130.41	124.68
11	AN	105	BCL	CHA-C1A-NA	-2.86	119.90	126.39
13	BB	101	V7N	C35-C13-C12	2.86	122.46	118.09
13	BB	101	V7N	C20-C21-C22	-2.86	123.67	127.69
18	H1	1001	CD4	O3-C17-C18	2.86	120.56	111.83
11	ag	102	BCL	CMB-C2B-C3B	2.86	130.40	124.68
11	M	406	BCL	C4A-NA-C1A	2.86	107.98	106.68
11	am	1001	BCL	CMB-C2B-C3B	2.86	130.39	124.68
11	AW	103	BCL	CMB-C2B-C3B	2.86	130.39	124.68
11	AL	102	BCL	C2A-C1A-CHA	2.85	128.82	123.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	bg	1002	BCL	C4A-NA-C1A	2.85	107.98	106.68
11	M	406	BCL	CHA-C1A-NA	-2.85	119.94	126.39
11	ba	103	BCL	CMB-C2B-C3B	2.85	130.38	124.68
13	BG	1001	V7N	C29-C28-C27	-2.85	114.94	123.20
11	AW	101	BCL	C2A-C1A-CHA	2.85	128.81	123.87
11	AG	102	BCL	C1-O2A-CGA	2.85	123.54	116.65
11	AH	101	BCL	C2A-C1A-CHA	2.84	128.80	123.87
11	AB	102	BCL	CHA-C1A-NA	-2.84	119.95	126.39
13	be	102	V7N	C38-C26-C27	-2.84	113.75	118.09
11	AM	101	BCL	CMB-C2B-C3B	2.84	130.36	124.68
11	ai	101	BCL	CMB-C2B-C3B	2.84	130.36	124.68
12	BW	1003	LMT	C1'-O5'-C5'	-2.84	108.17	113.72
11	AK	103	BCL	CMB-C2B-C3B	2.84	130.36	124.68
11	BC	105	BCL	CMB-C2B-C3B	2.84	130.36	124.68
11	ac	1002	BCL	CMB-C2B-C3B	2.83	130.35	124.68
18	ag	101	CD4	O16-C46-C47	2.83	117.61	111.48
13	AQ	104	V7N	C35-C13-C14	-2.83	118.23	122.82
13	AB	101	V7N	C28-C29-C39	2.83	134.64	126.64
13	BV	1001	V7N	C35-C13-C14	-2.83	118.23	122.82
11	AJ	101	BCL	CMB-C2B-C3B	2.83	130.34	124.68
13	bm	101	V7N	C38-C26-C27	-2.83	113.76	118.09
11	AP	101	BCL	CMB-C2B-C3B	2.83	130.34	124.68
11	bo	105	BCL	CMB-C2B-C3B	2.83	130.34	124.68
13	bf	101	V7N	C33-C5-C4	2.83	122.41	118.09
11	AU	101	BCL	CMB-C2B-C3B	2.83	130.33	124.68
11	AC	1001	BCL	C2A-C1A-CHA	2.82	128.77	123.87
11	AF	101	BCL	CMB-C2B-C3B	2.82	130.32	124.68
11	L	304	BCL	CMB-C2B-C3B	2.82	130.32	124.68
13	BJ	1001	V7N	C27-C26-C25	2.82	122.42	118.49
11	AE	103	BCL	C2A-C1A-CHA	2.82	128.76	123.87
11	BN	1004	BCL	CMB-C2B-C3B	2.82	130.31	124.68
11	bj	104	BCL	CMB-C2B-C3B	2.81	130.31	124.68
11	AA	1001	BCL	C2A-C1A-CHA	2.81	128.75	123.87
13	BS	1001	V7N	C36-C18-C19	2.81	122.39	118.09
11	ao	102	BCL	CMB-C2B-C3B	2.81	130.31	124.68
11	AS	102	BCL	C4A-NA-C1A	2.81	107.96	106.68
13	BC	101	V7N	C35-C13-C12	2.81	122.38	118.09
12	bd	102	LMT	C3'-C4'-C5'	-2.81	104.70	110.93
11	AD	101	BCL	CMB-C2B-C3B	2.81	130.30	124.68
11	L	304	BCL	C2A-C1A-CHA	2.81	128.74	123.87
11	bp	104	BCL	CMB-C2B-C3B	2.81	130.30	124.68
12	AJ	103	LMT	C3'-C4'-C5'	-2.81	104.71	110.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	bj	101	V7N	C35-C13-C12	2.81	122.38	118.09
12	AG	103	LMT	C3'-C4'-C5'	-2.80	104.72	110.93
12	AB	104	LMT	C3'-C4'-C5'	-2.80	104.72	110.93
11	AO	101	BCL	C2A-C1A-CHA	2.80	128.72	123.87
11	bg	1002	BCL	CMB-C2B-C3B	2.80	130.27	124.68
11	AL	103	BCL	C2A-C1A-CHA	2.79	128.72	123.87
11	BW	1002	BCL	CMB-C2B-C3B	2.79	130.26	124.68
11	bi	106	BCL	CMB-C2B-C3B	2.79	130.26	124.68
11	AI	103	BCL	C2A-C1A-CHA	2.79	128.71	123.87
11	AB	103	BCL	CMB-C2B-C3B	2.79	130.26	124.68
11	bh	102	BCL	CMB-C2B-C3B	2.79	130.26	124.68
11	BX	103	BCL	CMB-C2B-C3B	2.79	130.25	124.68
11	AD	101	BCL	C4A-NA-C1A	2.79	107.95	106.68
11	AQ	102	BCL	OBB-CAB-CBB	-2.79	114.25	120.19
13	AW	104	V7N	C36-C18-C19	2.79	122.34	118.09
11	AR	102	BCL	C2A-C1A-CHA	2.78	128.70	123.87
18	H1	1001	CD4	O16-C46-C47	2.78	117.50	111.48
11	AA	1002	BCL	C2A-C1A-CHA	2.78	128.70	123.87
11	M	403	BCL	C2A-C1A-CHA	2.78	128.70	123.87
12	bi	101	LMT	O5'-C1'-C2'	-2.78	104.66	110.37
12	BP	1004	LMT	C3'-C4'-C5'	-2.78	104.77	110.93
11	AS	104	BCL	CMB-C2B-C3B	2.78	130.24	124.68
11	AH	102	BCL	CMB-C2B-C3B	2.78	130.23	124.68
11	AU	102	BCL	C2A-C1A-CHA	2.78	128.69	123.87
11	BM	1004	BCL	CMB-C2B-C3B	2.78	130.23	124.68
11	BR	102	BCL	CMB-C2B-C3B	2.78	130.23	124.68
11	AV	102	BCL	CMB-C2B-C3B	2.78	130.23	124.68
11	BV	1002	BCL	CMB-C2B-C3B	2.78	130.23	124.68
11	bf	103	BCL	CMB-C2B-C3B	2.78	130.23	124.68
11	AD	102	BCL	C2A-C1A-CHA	2.78	128.68	123.87
11	AI	101	BCL	CMB-C2B-C3B	2.77	130.23	124.68
11	AF	102	BCL	C2A-C1A-CHA	2.77	128.68	123.87
11	BI	102	BCL	CMB-C2B-C3B	2.77	130.22	124.68
11	AD	102	BCL	CMB-C2B-C3B	2.77	130.22	124.68
11	AV	104	BCL	C4A-NA-C1A	2.77	107.94	106.68
11	BT	1002	BCL	CMB-C2B-C3B	2.77	130.21	124.68
11	bn	104	BCL	CMB-C2B-C3B	2.77	130.21	124.68
11	BB	105	BCL	CMB-C2B-C3B	2.77	130.21	124.68
11	L	303	BCL	C4A-NA-C1A	2.76	107.94	106.68
11	AG	101	BCL	C2A-C1A-CHA	2.76	128.66	123.87
11	BE	103	BCL	C2A-C1A-CHA	2.76	128.66	123.87
11	AL	103	BCL	CMB-C2B-C3B	2.76	130.20	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AJ	102	BCL	OBB-CAB-CBB	-2.76	114.31	120.19
12	BU	1004	LMT	C3'-C4'-C5'	-2.76	104.81	110.93
11	bm	103	BCL	CMB-C2B-C3B	2.76	130.19	124.68
11	AM	102	BCL	OBB-CAB-CBB	-2.76	114.31	120.19
11	BA	103	BCL	CMB-C2B-C3B	2.76	130.19	124.68
25	ai	102	UYH	O1-C7-C8	-2.76	104.12	110.82
11	AV	104	BCL	CMB-C2B-C3B	2.75	130.18	124.68
13	bd	101	V7N	C35-C13-C12	2.75	122.29	118.09
13	AE	105	V7N	C36-C18-C19	2.75	122.29	118.09
11	AN	103	BCL	OBB-CAB-CBB	-2.75	114.34	120.19
13	BH	1001	V7N	C3-C4-C5	2.75	130.04	125.89
13	BL	1001	V7N	C36-C18-C19	2.75	122.28	118.09
11	AE	102	BCL	CMB-C2B-C3B	2.74	130.17	124.68
11	bb	103	BCL	CMB-C2B-C3B	2.74	130.17	124.68
13	BS	1001	V7N	C35-C13-C12	2.74	122.28	118.09
13	BS	1001	V7N	C10-C9-C34	2.74	122.52	116.43
11	AK	103	BCL	C2A-C1A-CHA	2.74	128.62	123.87
11	AH	101	BCL	OBB-CAB-CBB	-2.74	114.36	120.19
11	AT	101	BCL	OBB-CAB-CBB	-2.74	114.36	120.19
11	bc	104	BCL	CMB-C2B-C3B	2.73	130.15	124.68
13	BC	101	V7N	C36-C18-C19	2.73	122.26	118.09
11	AO	101	BCL	OBB-CAB-CBB	-2.73	114.37	120.19
11	BU	1001	BCL	CMB-C2B-C3B	2.73	130.14	124.68
21	L	309	BPH	CHA-C4D-C3D	2.73	116.64	111.19
13	bj	101	V7N	C33-C5-C4	2.73	122.25	118.09
11	AR	102	BCL	OBB-CAB-CBB	-2.72	114.39	120.19
12	BI	105	LMT	C1-O1'-C1'	2.72	118.33	113.68
11	BH	1004	BCL	CMB-C2B-C3B	2.72	130.12	124.68
13	BJ	1001	V7N	C35-C13-C12	2.72	122.24	118.09
12	BI	105	LMT	C3'-C4'-C5'	-2.72	104.90	110.93
11	AV	101	BCL	C2A-C1A-CHA	2.72	128.58	123.87
12	BK	1004	LMT	O5'-C5'-C4'	2.72	115.34	109.72
11	BG	1003	BCL	CMB-C2B-C3B	2.72	130.11	124.68
11	BL	1005	BCL	C4A-NA-C1A	2.72	107.92	106.68
11	AW	101	BCL	OBB-CAB-CBB	-2.71	114.41	120.19
21	M	404	BPH	CHA-C4D-C3D	2.71	116.62	111.19
11	AA	1001	BCL	OBB-CAB-CBB	-2.71	114.41	120.19
11	BE	103	BCL	CMB-C2B-C3B	2.71	130.10	124.68
13	AT	103	V7N	C35-C13-C12	2.71	122.23	118.09
11	BJ	1004	BCL	CMB-C2B-C3B	2.71	130.10	124.68
13	af	103	V7N	C36-C18-C17	-2.71	118.42	122.82
13	be	102	V7N	C33-C5-C4	2.71	122.23	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AK	102	BCL	OBB-CAB-CBB	-2.71	114.42	120.19
11	BF	102	BCL	CMB-C2B-C3B	2.71	130.09	124.68
11	BL	1005	BCL	CMB-C2B-C3B	2.71	130.09	124.68
11	AA	1002	BCL	CMB-C2B-C3B	2.71	130.09	124.68
13	bl	101	V7N	C35-C13-C12	2.71	122.22	118.09
11	AX	101	BCL	C2A-C1A-CHA	2.71	128.56	123.87
11	aj	102	BCL	OBB-CAB-CBB	-2.70	114.43	120.19
13	BM	1001	V7N	C10-C9-C34	2.70	122.44	116.43
11	BQ	1002	BCL	CMB-C2B-C3B	2.70	130.09	124.68
12	AM	103	LMT	C3'-C4'-C5'	-2.70	104.94	110.93
13	BP	1001	V7N	C36-C18-C19	2.70	122.22	118.09
13	bj	101	V7N	C10-C9-C34	2.70	122.44	116.43
11	bk	1002	BCL	CMB-C2B-C3B	2.70	130.08	124.68
11	AU	102	BCL	OBB-CAB-CBB	-2.70	114.43	120.19
13	bh	101	V7N	C35-C13-C12	2.70	122.21	118.09
11	AS	101	BCL	OBB-CAB-CBB	-2.70	114.43	120.19
12	BV	1005	LMT	O1'-C1'-C2'	2.70	112.37	108.27
11	AG	101	BCL	OBB-CAB-CBB	-2.70	114.44	120.19
11	L	303	BCL	C2A-C1A-CHA	2.70	128.55	123.87
11	AS	104	BCL	CAA-CBA-CGA	2.70	120.86	113.21
11	bl	104	BCL	CMB-C2B-C3B	2.70	130.07	124.68
11	BR	102	BCL	C4A-NA-C1A	2.70	107.91	106.68
11	AV	101	BCL	OBB-CAB-CBB	-2.70	114.44	120.19
13	ba	102	V7N	C35-C13-C14	-2.69	118.45	122.82
12	ac	1001	LMT	O1'-C1'-C2'	2.69	112.36	108.27
13	AT	103	V7N	C27-C26-C25	2.69	122.24	118.49
11	AP	102	BCL	OBB-CAB-CBB	-2.69	114.45	120.19
11	AD	102	BCL	C1-C2-C3	-2.69	121.79	126.20
12	AL	104	LMT	C3'-C4'-C5'	-2.69	104.97	110.93
11	AE	103	BCL	OBB-CAB-CBB	-2.69	114.46	120.19
12	AQ	103	LMT	C3'-C4'-C5'	-2.69	104.97	110.93
11	AM	102	BCL	C2A-C1A-CHA	2.68	128.53	123.87
11	BO	1005	BCL	CMB-C2B-C3B	2.68	130.05	124.68
11	bd	103	BCL	CMB-C2B-C3B	2.68	130.04	124.68
12	AE	104	LMT	C3'-C4'-C5'	-2.68	104.98	110.93
13	bo	102	V7N	C33-C5-C4	2.68	122.19	118.09
11	AD	102	BCL	C4B-C3B-CAB	-2.68	121.98	127.08
13	BN	1001	V7N	C36-C18-C19	2.68	122.18	118.09
11	bc	104	BCL	CBA-CAA-C2A	2.68	121.77	113.79
12	M	408	LMT	C3'-C4'-C5'	-2.68	104.99	110.93
11	BS	1006	BCL	CMB-C2B-C3B	2.68	130.03	124.68
11	ag	102	BCL	OBB-CAB-CBB	-2.68	114.48	120.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BN	1005	LMT	C3'-C4'-C5'	-2.68	105.00	110.93
18	M	402	CD4	O16-C46-C47	2.68	117.27	111.48
13	be	102	V7N	C10-C9-C34	2.68	122.38	116.43
13	bn	101	V7N	C35-C13-C12	2.67	122.17	118.09
11	AC	1001	BCL	OBB-CAB-CBB	-2.67	114.49	120.19
11	AI	103	BCL	OBB-CAB-CBB	-2.67	114.49	120.19
13	bd	101	V7N	C33-C5-C4	2.67	122.17	118.09
12	BG	1002	LMT	O1'-C1'-C2'	2.67	112.33	108.27
13	AW	104	V7N	C35-C13-C12	2.67	122.17	118.09
18	H1	1001	CD4	O2-C14-C13	2.67	117.26	111.48
11	AF	102	BCL	OBB-CAB-CBB	-2.67	114.50	120.19
11	BT	1002	BCL	CBA-CAA-C2A	2.67	121.72	113.79
12	bi	101	LMT	O1'-C1'-C2'	2.67	112.32	108.27
11	ap	1001	BCL	OBB-CAB-CBB	-2.66	114.51	120.19
11	AD	101	BCL	C1C-NC-C4C	2.66	107.89	106.68
11	am	1001	BCL	OBB-CAB-CBB	-2.66	114.52	120.19
12	BW	1003	LMT	C1-O1'-C1'	2.66	118.23	113.68
11	AE	102	BCL	CAA-CBA-CGA	2.66	120.76	113.21
11	AM	101	BCL	CBA-CAA-C2A	2.66	121.71	113.79
13	bf	101	V7N	C10-C9-C34	2.66	122.34	116.43
13	BS	1001	V7N	C27-C26-C25	2.66	122.19	118.49
18	ae	102	CD4	O2-C14-O1	-2.65	117.50	123.70
11	bn	104	BCL	C4A-NA-C1A	2.65	107.89	106.68
13	BE	101	V7N	C10-C9-C34	2.65	122.33	116.43
11	BK	1005	BCL	C1-O2A-CGA	2.65	123.07	116.65
13	bh	101	V7N	C33-C5-C4	2.65	122.14	118.09
11	BD	103	BCL	CMB-C2B-C3B	2.65	129.98	124.68
24	ag	103	V7B	C43-O4-C4	-2.65	111.70	117.98
13	BW	1001	V7N	C36-C18-C19	2.65	122.14	118.09
11	AE	102	BCL	C1-C2-C3	-2.65	121.86	126.20
11	AX	101	BCL	OBB-CAB-CBB	-2.65	114.54	120.19
12	BP	1003	LMT	C3'-C4'-C5'	-2.65	105.06	110.93
13	bc	101	V7N	C33-C5-C4	2.65	122.13	118.09
13	BQ	1001	V7N	C10-C9-C34	2.65	122.32	116.43
13	AQ	104	V7N	C3-C4-C5	2.65	129.89	125.89
13	AH	104	V7N	C35-C13-C14	-2.65	118.53	122.82
11	AP	102	BCL	C2A-C1A-CHA	2.64	128.46	123.87
11	BK	1005	BCL	CMB-C2B-C3B	2.64	129.96	124.68
11	BP	1002	BCL	CMB-C2B-C3B	2.64	129.96	124.68
11	be	105	BCL	CMB-C2B-C3B	2.64	129.95	124.68
13	BC	101	V7N	C10-C9-C34	2.64	122.29	116.43
13	BK	1001	V7N	C36-C18-C19	2.63	122.11	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BQ	1001	V7N	C35-C13-C12	2.63	122.11	118.09
11	ab	101	BCL	OBB-CAB-CBB	-2.63	114.58	120.19
13	bl	101	V7N	C1-C2-C3	2.63	119.82	112.98
11	ba	103	BCL	C4A-NA-C1A	2.63	107.88	106.68
11	aj	102	BCL	C1-O2A-CGA	2.63	123.02	116.65
13	BE	101	V7N	C35-C13-C12	2.63	122.10	118.09
12	AS	103	LMT	C3'-C4'-C5'	-2.63	105.11	110.93
12	BJ	1003	LMT	C1'-O5'-C5'	-2.63	108.59	113.72
12	BE	104	LMT	C2'-C3'-C4'	2.63	115.64	109.68
11	ad	102	BCL	OBB-CAB-CBB	-2.63	114.59	120.19
11	an	1001	BCL	OBB-CAB-CBB	-2.63	114.59	120.19
12	BR	104	LMT	O5B-C5B-C4B	2.62	114.43	109.70
13	BO	1001	V7N	C2-C3-C4	-2.62	121.23	124.91
18	ae	102	CD4	O3-C17-C18	2.62	119.83	111.83
13	bd	101	V7N	C10-C9-C34	2.62	122.26	116.43
13	aj	103	V7N	C36-C18-C17	-2.62	118.57	122.82
11	ah	1001	BCL	OBB-CAB-CBB	-2.62	114.60	120.19
11	AB	103	BCL	OBB-CAB-CBB	-2.62	114.61	120.19
13	bn	101	V7N	C10-C9-C34	2.62	122.25	116.43
11	AV	102	BCL	C2A-C1A-CHA	2.62	128.41	123.87
11	BI	102	BCL	C2A-C1A-CHA	2.62	128.41	123.87
13	BH	1001	V7N	C35-C13-C12	2.62	122.08	118.09
11	AJ	101	BCL	C2A-C1A-CHA	2.61	128.41	123.87
11	aa	1001	BCL	OBB-CAB-CBB	-2.61	114.62	120.19
13	BO	1001	V7N	C35-C13-C12	2.61	122.08	118.09
13	bh	101	V7N	C10-C9-C34	2.61	122.24	116.43
11	AB	105	BCL	OBB-CAB-CBB	-2.61	114.62	120.19
13	bb	101	V7N	C27-C26-C25	2.61	122.13	118.49
12	BO	1002	LMT	C3'-C4'-C5'	-2.61	105.15	110.93
12	AD	103	LMT	O1'-C1'-C2'	2.61	112.23	108.27
11	AF	101	BCL	C2A-C1A-CHA	2.61	128.39	123.87
13	af	103	V7N	C33-C5-C4	2.61	122.07	118.09
11	AW	103	BCL	OBB-CAB-CBB	-2.60	114.64	120.19
11	M	403	BCL	OBB-CAB-CBB	-2.60	114.64	120.19
11	AB	102	BCL	C2A-C1A-CHA	2.60	128.39	123.87
11	AW	103	BCL	C2A-C1A-CHA	2.60	128.39	123.87
11	al	1001	BCL	OBB-CAB-CBB	-2.60	114.64	120.19
12	bl	102	LMT	O5B-C5B-C4B	2.60	114.39	109.70
13	BH	1001	V7N	C36-C18-C19	2.60	122.06	118.09
13	BV	1001	V7N	C20-C21-C22	-2.60	124.03	127.69
13	BT	1001	V7N	C35-C13-C14	-2.60	118.60	122.82
24	af	101	V7B	O8-C28-C29	2.60	119.77	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	bf	101	V7N	C35-C13-C12	2.60	122.06	118.09
12	AH	105	LMT	O5'-C1'-C2'	-2.60	105.03	110.37
13	BN	1001	V7N	C10-C9-C34	2.60	122.21	116.43
11	AQ	101	BCL	OBB-CAB-CBB	-2.60	114.65	120.19
11	BS	1006	BCL	C1-C2-C3	-2.60	121.94	126.20
13	af	103	V7N	C35-C13-C12	2.60	122.06	118.09
12	bm	102	LMT	C3'-C4'-C5'	-2.60	105.17	110.93
11	AL	102	BCL	OBB-CAB-CBB	-2.59	114.66	120.19
13	BP	1001	V7N	C10-C9-C34	2.59	122.19	116.43
13	bi	102	V7N	C35-C13-C12	2.59	122.04	118.09
11	ac	1002	BCL	OBB-CAB-CBB	-2.59	114.67	120.19
11	ak	101	BCL	OBB-CAB-CBB	-2.59	114.67	120.19
11	AP	101	BCL	C2A-C1A-CHA	2.59	128.36	123.87
11	af	102	BCL	OBB-CAB-CBB	-2.59	114.68	120.19
13	bc	101	V7N	C35-C13-C12	2.59	122.04	118.09
13	bb	101	V7N	C29-C28-C27	-2.59	115.71	123.20
20	L	302	MQ8	C11-C3-C2	-2.58	120.46	124.89
21	L	309	BPH	OBB-CAB-CBB	-2.58	114.68	120.19
11	ae	101	BCL	OBB-CAB-CBB	-2.58	114.69	120.19
13	aj	103	V7N	C35-C13-C12	2.58	122.03	118.09
13	be	102	V7N	C35-C13-C14	-2.58	118.64	122.82
13	AE	105	V7N	C10-C9-C34	2.58	122.16	116.43
13	be	102	V7N	C36-C18-C19	2.58	122.03	118.09
11	AM	101	BCL	CAA-CBA-CGA	2.58	120.53	113.21
11	AG	102	BCL	C2A-C1A-CHA	2.57	128.34	123.87
11	AB	102	BCL	OBB-CAB-CBB	-2.57	114.70	120.19
13	AQ	104	V7N	C10-C9-C34	2.57	122.15	116.43
12	AT	102	LMT	C2'-C3'-C4'	2.57	115.52	109.68
11	AB	105	BCL	C4A-NA-C1A	2.57	107.85	106.68
13	bo	102	V7N	C35-C13-C12	2.57	122.02	118.09
12	BM	1003	LMT	O1'-C1'-C2'	2.57	112.18	108.27
11	AB	102	BCL	C4A-NA-C1A	2.57	107.85	106.68
11	AK	103	BCL	C1-C2-C3	-2.57	121.99	126.20
11	ai	101	BCL	OBB-CAB-CBB	-2.57	114.72	120.19
11	AR	101	BCL	OBB-CAB-CBB	-2.57	114.72	120.19
13	BM	1001	V7N	C35-C13-C14	-2.57	118.66	122.82
11	bd	103	BCL	CBA-CAA-C2A	2.56	121.42	113.79
11	AS	101	BCL	C1-C2-C3	-2.56	122.00	126.20
12	BA	101	LMT	C3'-C4'-C5'	-2.56	105.25	110.93
11	AD	102	BCL	OBB-CAB-CBB	-2.56	114.73	120.19
13	BS	1001	V7N	C33-C5-C4	2.56	122.00	118.09
13	BV	1001	V7N	C36-C18-C17	-2.56	118.67	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	ad	102	BCL	C2A-C1A-CHA	2.56	128.31	123.87
13	BE	101	V7N	C36-C18-C19	2.56	122.00	118.09
12	BF	104	LMT	O1'-C1'-C2'	2.56	112.16	108.27
11	ah	1001	BCL	C2A-C1A-CHA	2.56	128.30	123.87
11	AD	101	BCL	CAA-CBA-CGA	2.56	120.47	113.21
11	AN	102	BCL	C2A-C1A-CHA	2.55	128.30	123.87
13	AB	101	V7N	C10-C9-C34	2.55	122.11	116.43
11	BH	1004	BCL	C2A-C1A-CHA	2.55	128.29	123.87
13	BP	1001	V7N	C35-C13-C14	-2.55	118.69	122.82
11	AV	104	BCL	OBB-CAB-CBB	-2.55	114.76	120.19
11	BD	103	BCL	C2A-C1A-CHA	2.55	128.29	123.87
11	BN	1004	BCL	C1-O2A-CGA	2.55	122.82	116.65
12	BP	1005	LMT	O5'-C1'-C2'	-2.55	105.14	110.37
11	BC	105	BCL	C2A-C1A-CHA	2.55	128.28	123.87
11	AB	103	BCL	C2A-C1A-CHA	2.54	128.28	123.87
11	ak	101	BCL	C2A-C1A-CHA	2.54	128.28	123.87
13	bb	101	V7N	C7-C6-C5	-2.54	123.72	127.28
12	AN	104	LMT	C1-O1'-C1'	2.54	118.02	113.68
13	bo	102	V7N	C10-C9-C34	2.54	122.07	116.43
12	BG	1002	LMT	C3'-C4'-C5'	-2.54	105.31	110.93
11	AD	101	BCL	CBA-CAA-C2A	2.54	121.34	113.79
12	AV	103	LMT	C1'-O5'-C5'	-2.53	108.77	113.72
13	BW	1001	V7N	C10-C9-C34	2.53	122.06	116.43
11	ao	102	BCL	OBB-CAB-CBB	-2.53	114.79	120.19
13	aj	103	V7N	C10-C9-C34	2.53	122.06	116.43
13	AB	101	V7N	C15-C14-C13	-2.53	123.73	127.28
11	aj	102	BCL	C4A-NA-C1A	2.53	107.83	106.68
13	bp	101	V7N	C33-C5-C4	2.53	121.95	118.09
11	BT	1002	BCL	C2A-C1A-CHA	2.53	128.25	123.87
11	AN	102	BCL	OBB-CAB-CBB	-2.53	114.81	120.19
11	AM	101	BCL	C2A-C1A-CHA	2.52	128.25	123.87
13	AH	104	V7N	C33-C5-C6	-2.52	118.73	122.82
11	AW	103	BCL	CBA-CAA-C2A	2.52	121.29	113.79
12	H2	201	LMT	C3'-C4'-C5'	-2.52	105.35	110.93
13	AE	105	V7N	C35-C13-C14	-2.52	118.74	122.82
11	BM	1004	BCL	C2A-C1A-CHA	2.52	128.23	123.87
13	BW	1001	V7N	C15-C14-C13	-2.52	123.75	127.28
11	AF	101	BCL	OBB-CAB-CBB	-2.51	114.83	120.19
13	BQ	1001	V7N	C36-C18-C17	-2.51	118.74	122.82
11	BU	1001	BCL	C4A-NA-C1A	2.51	107.83	106.68
12	bb	105	LMT	C3'-C4'-C5'	-2.51	105.36	110.93
11	BN	1004	BCL	OBB-CAB-CBB	-2.51	114.84	120.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BP	1001	V7N	C33-C5-C4	2.51	121.92	118.09
13	bl	101	V7N	C10-C9-C34	2.51	122.01	116.43
11	AP	101	BCL	OBB-CAB-CBB	-2.51	114.84	120.19
12	BE	104	LMT	O5'-C1'-C2'	-2.51	105.22	110.37
19	H1	1003	PGW	O01-C1-C2	2.51	116.91	111.48
13	BS	1001	V7N	C20-C21-C22	-2.51	124.17	127.69
11	AE	102	BCL	CBA-CAA-C2A	2.51	121.25	113.79
11	AR	101	BCL	C2A-C1A-CHA	2.50	128.21	123.87
13	BO	1001	V7N	C36-C18-C19	2.50	121.91	118.09
12	BN	1003	LMT	C3'-C4'-C5'	-2.50	105.39	110.93
11	BV	1002	BCL	C2A-C1A-CHA	2.50	128.21	123.87
11	ag	102	BCL	C2A-C1A-CHA	2.50	128.21	123.87
13	bo	102	V7N	C27-C26-C25	2.50	121.97	118.49
13	bn	101	V7N	C36-C18-C17	-2.50	118.77	122.82
18	M	409	CD4	O14-C35-C36	2.50	119.45	111.83
12	BU	1004	LMT	O1'-C1'-C2'	2.50	112.07	108.27
11	bd	103	BCL	C1-C2-C3	2.50	130.29	126.20
11	BE	103	BCL	CAA-CBA-CGA	2.50	120.30	113.21
13	BO	1001	V7N	C3-C4-C5	2.50	129.66	125.89
12	BU	1004	LMT	O5'-C1'-O1'	-2.50	104.15	110.04
11	BH	1004	BCL	CBA-CAA-C2A	2.50	121.22	113.79
12	AA	1003	LMT	C1-O1'-C1'	2.49	117.94	113.68
12	AK	101	LMT	C1-O1'-C1'	2.49	117.94	113.68
13	AB	101	V7N	C35-C13-C12	2.49	121.90	118.09
11	AD	101	BCL	C1-O2A-CGA	2.49	122.68	116.65
25	ai	102	UYH	O7-C10-C11	2.49	116.87	111.48
11	BM	1004	BCL	CBA-CAA-C2A	2.49	121.20	113.79
11	BB	105	BCL	OBB-CAB-CBB	-2.49	114.89	120.19
13	bn	101	V7N	C29-C28-C27	-2.49	116.00	123.20
11	M	406	BCL	C2A-C1A-CHA	2.49	128.18	123.87
13	AQ	104	V7N	C36-C18-C19	2.48	121.88	118.09
11	bc	104	BCL	OBB-CAB-CBB	-2.48	114.89	120.19
15	C	403	HEC	CBA-CAA-C2A	-2.48	108.46	112.55
13	ba	102	V7N	C36-C18-C17	-2.48	118.80	122.82
11	BC	105	BCL	C1-O2A-CGA	2.48	122.66	116.65
11	ae	101	BCL	C2A-C1A-CHA	2.48	128.17	123.87
13	BK	1001	V7N	C33-C5-C4	2.48	121.88	118.09
11	BL	1005	BCL	C2A-C1A-CHA	2.48	128.17	123.87
13	AT	103	V7N	C10-C9-C34	2.48	121.94	116.43
15	C	402	HEC	CBA-CAA-C2A	-2.48	108.47	112.55
11	bp	104	BCL	OBB-CAB-CBB	-2.48	114.91	120.19
13	BG	1001	V7N	C33-C5-C4	2.48	121.87	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AL	103	BCL	CAA-CBA-CGA	2.48	120.24	113.21
11	ba	103	BCL	C2A-C1A-CHA	2.48	128.16	123.87
13	bp	101	V7N	C10-C9-C34	2.48	121.94	116.43
18	H1	1001	CD4	O14-C35-C36	2.48	119.39	111.83
11	AI	101	BCL	CBA-CAA-C2A	2.47	121.16	113.79
11	bf	103	BCL	C1-C2-C3	-2.47	122.14	126.20
13	AE	101	V7N	C35-C13-C12	2.47	121.87	118.09
13	aj	103	V7N	C35-C13-C14	-2.47	118.81	122.82
11	AJ	101	BCL	OBB-CAB-CBB	-2.47	114.92	120.19
11	AH	102	BCL	CBA-CAA-C2A	2.47	121.15	113.79
11	AU	101	BCL	OBB-CAB-CBB	-2.47	114.92	120.19
13	BB	101	V7N	C36-C18-C19	2.47	121.86	118.09
13	BC	101	V7N	C33-C5-C4	2.47	121.86	118.09
11	AI	101	BCL	C2A-C1A-CHA	2.47	128.15	123.87
13	BL	1001	V7N	C35-C13-C14	-2.47	118.82	122.82
12	BV	1003	LMT	C1-O1'-C1'	2.47	117.90	113.68
13	BV	1001	V7N	C10-C9-C34	2.47	121.92	116.43
11	AM	101	BCL	OBB-CAB-CBB	-2.47	114.93	120.19
13	AQ	104	V7N	C2-C3-C4	-2.47	121.45	124.91
11	bj	104	BCL	CBA-CAA-C2A	2.46	121.13	113.79
11	AI	101	BCL	OBB-CAB-CBB	-2.46	114.94	120.19
11	BG	1003	BCL	C2A-C1A-CHA	2.46	128.14	123.87
11	BP	1002	BCL	C2A-C1A-CHA	2.46	128.14	123.87
12	AW	102	LMT	C1'-O5'-C5'	-2.46	108.91	113.72
12	BG	1002	LMT	C1-O1'-C1'	2.46	117.88	113.68
11	bh	102	BCL	OBB-CAB-CBB	-2.46	114.95	120.19
11	bf	103	BCL	C2A-C1A-CHA	2.46	128.14	123.87
12	AH	105	LMT	O5'-C5'-C4'	2.46	114.81	109.72
11	AN	105	BCL	C6-C5-C3	2.46	119.46	113.47
11	AN	105	BCL	OBB-CAB-CBB	-2.46	114.95	120.19
13	af	103	V7N	C16-C17-C18	-2.46	123.83	127.28
11	aa	1001	BCL	C2A-C1A-CHA	2.46	128.13	123.87
13	bo	102	V7N	C3-C4-C5	2.46	129.60	125.89
12	L	307	LMT	O1'-C1'-C2'	2.45	112.00	108.27
12	BL	1002	LMT	C3'-C4'-C5'	-2.45	105.49	110.93
13	bb	101	V7N	C35-C13-C12	2.45	121.83	118.09
13	AQ	104	V7N	C27-C26-C25	2.45	121.90	118.49
13	AQ	104	V7N	C33-C5-C6	-2.45	118.85	122.82
12	AV	103	LMT	C3'-C4'-C5'	-2.45	105.50	110.93
13	BT	1001	V7N	C33-C5-C4	2.45	121.83	118.09
13	AW	104	V7N	C10-C9-C34	2.45	121.87	116.43
11	BM	1004	BCL	C1-O2A-CGA	2.44	122.57	116.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AQ	101	BCL	C2A-C1A-CHA	2.44	128.11	123.87
11	bi	106	BCL	OBB-CAB-CBB	-2.44	114.98	120.19
13	BE	101	V7N	C33-C5-C4	2.44	121.82	118.09
11	AB	105	BCL	CAC-C3C-C4C	2.44	118.00	112.58
13	BO	1001	V7N	C10-C9-C34	2.44	121.85	116.43
13	AE	101	V7N	C33-C5-C4	2.44	121.81	118.09
13	ba	102	V7N	C29-C28-C27	-2.44	116.14	123.20
13	BH	1001	V7N	C33-C5-C6	-2.44	118.87	122.82
12	BX	102	LMT	C1-O1'-C1'	2.43	117.84	113.68
11	BC	105	BCL	OBB-CAB-CBB	-2.43	115.00	120.19
11	AU	101	BCL	C2A-C1A-CHA	2.43	128.09	123.87
25	ai	102	UYH	O6-C1-C2	2.43	115.36	110.37
11	bo	105	BCL	OBB-CAB-CBB	-2.43	115.01	120.19
11	AH	102	BCL	OBB-CAB-CBB	-2.43	115.01	120.19
13	BM	1001	V7N	C33-C5-C4	2.43	121.80	118.09
11	ba	103	BCL	OBB-CAB-CBB	-2.43	115.01	120.19
11	AK	103	BCL	CBA-CAA-C2A	2.43	121.02	113.79
18	M	402	CD4	O14-C35-C36	2.43	119.24	111.83
11	AK	102	BCL	CMB-C2B-C3B	2.43	129.54	124.68
11	BR	102	BCL	C2A-C1A-CHA	2.43	128.08	123.87
14	bd	104	OV9	O3P-P-O2P	2.43	118.55	108.94
11	AE	102	BCL	OBB-CAB-CBB	-2.43	115.02	120.19
11	bc	104	BCL	C2A-C1A-CHA	2.42	128.07	123.87
11	AI	103	BCL	CMB-C2B-C3B	2.42	129.53	124.68
11	an	1001	BCL	C2A-C1A-CHA	2.42	128.07	123.87
13	BN	1001	V7N	C35-C13-C12	2.42	121.79	118.09
11	AB	103	BCL	C4B-C3B-CAB	-2.42	122.47	127.08
13	AH	104	V7N	C2-C3-C4	-2.42	121.51	124.91
11	BB	105	BCL	C2A-C1A-CHA	2.42	128.07	123.87
11	AV	104	BCL	O2A-CGA-O1A	-2.42	117.57	123.63
11	L	304	BCL	OBB-CAB-CBB	-2.42	115.03	120.19
11	AA	1002	BCL	C11-C10-C8	2.42	124.01	115.97
13	bi	102	V7N	C10-C9-C34	2.42	121.81	116.43
11	AD	101	BCL	OBB-CAB-CBB	-2.42	115.03	120.19
13	AH	104	V7N	C36-C18-C19	2.42	121.78	118.09
11	BX	103	BCL	OBB-CAB-CBB	-2.42	115.04	120.19
11	AE	102	BCL	C2A-C1A-CHA	2.42	128.06	123.87
11	AV	102	BCL	OBB-CAB-CBB	-2.42	115.04	120.19
11	AS	104	BCL	OBB-CAB-CBB	-2.42	115.04	120.19
11	AK	103	BCL	OBB-CAB-CBB	-2.42	115.04	120.19
11	ac	1002	BCL	C2A-C1A-CHA	2.42	128.06	123.87
13	bi	102	V7N	C33-C5-C4	2.41	121.78	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AJ	102	BCL	CMB-C2B-C3B	2.41	129.51	124.68
13	AB	101	V7N	C35-C13-C14	-2.41	118.91	122.82
11	L	304	BCL	C4A-NA-C1A	2.41	107.78	106.68
11	BM	1004	BCL	OBB-CAB-CBB	-2.41	115.05	120.19
11	BT	1002	BCL	OBB-CAB-CBB	-2.41	115.05	120.19
11	BK	1005	BCL	OBB-CAB-CBB	-2.41	115.05	120.19
11	AS	104	BCL	C2A-C1A-CHA	2.41	128.05	123.87
13	BG	1001	V7N	C35-C13-C14	-2.41	118.92	122.82
13	bc	101	V7N	C10-C9-C34	2.41	121.78	116.43
11	bf	103	BCL	OBB-CAB-CBB	-2.41	115.06	120.19
13	BN	1001	V7N	C33-C5-C4	2.41	121.76	118.09
13	AB	101	V7N	C27-C26-C25	2.40	121.84	118.49
12	bp	102	LMT	C3'-C4'-C5'	-2.40	105.60	110.93
11	BU	1001	BCL	C2A-C1A-CHA	2.40	128.04	123.87
11	bm	103	BCL	C4A-NA-C1A	2.40	107.78	106.68
11	bk	1002	BCL	OBB-CAB-CBB	-2.40	115.07	120.19
13	AT	103	V7N	C36-C18-C19	2.40	121.75	118.09
13	BW	1001	V7N	C35-C13-C12	2.40	121.75	118.09
11	bn	104	BCL	OBB-CAB-CBB	-2.40	115.08	120.19
12	BO	1003	LMT	C3'-C4'-C5'	-2.40	105.61	110.93
11	AU	101	BCL	CAC-C3C-C4C	2.40	117.91	112.58
12	BF	103	LMT	C1-O1'-C1'	2.40	117.78	113.68
12	L	307	LMT	O5'-C1'-C2'	-2.40	105.44	110.37
11	bm	103	BCL	OBB-CAB-CBB	-2.40	115.08	120.19
11	AH	102	BCL	C2A-C1A-CHA	2.40	128.03	123.87
14	bd	104	OV9	C2-O2-C10	2.40	123.53	117.80
11	al	1001	BCL	C2A-C1A-CHA	2.40	128.03	123.87
11	BV	1002	BCL	OBB-CAB-CBB	-2.40	115.08	120.19
13	BN	1001	V7N	C35-C13-C14	-2.40	118.93	122.82
11	bj	104	BCL	OBB-CAB-CBB	-2.40	115.08	120.19
12	bn	103	LMT	O5B-C1B-C2B	2.40	115.29	110.37
11	AP	102	BCL	CMB-C2B-C3B	2.39	129.47	124.68
12	BN	1002	LMT	C3'-C4'-C5'	-2.39	105.63	110.93
12	BL	1004	LMT	C1'-O5'-C5'	-2.39	109.05	113.72
15	C	404	HEC	C1D-C2D-C3D	-2.39	105.33	107.00
11	bg	1002	BCL	OBB-CAB-CBB	-2.39	115.10	120.19
12	BV	1004	LMT	C3'-C4'-C5'	-2.39	105.64	110.93
13	AB	101	V7N	C33-C5-C4	2.39	121.74	118.09
13	bp	101	V7N	C35-C13-C14	-2.39	118.95	122.82
11	BQ	1002	BCL	C2A-C1A-CHA	2.39	128.01	123.87
13	bm	101	V7N	C36-C18-C19	2.39	121.73	118.09
11	AS	104	BCL	CBA-CAA-C2A	2.39	120.89	113.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	bj	101	V7N	C36-C18-C19	2.39	121.73	118.09
11	AS	101	BCL	CMB-C2B-C3B	2.38	129.45	124.68
11	bl	104	BCL	OBB-CAB-CBB	-2.38	115.11	120.19
11	AA	1001	BCL	CMB-C2B-C3B	2.38	129.45	124.68
13	BB	101	V7N	C33-C5-C4	2.38	121.73	118.09
11	AC	1001	BCL	CMB-C2B-C3B	2.38	129.44	124.68
11	AR	102	BCL	CMB-C2B-C3B	2.38	129.44	124.68
13	AW	104	V7N	C33-C5-C4	2.38	121.72	118.09
11	AG	102	BCL	OBB-CAB-CBB	-2.38	115.13	120.19
11	AB	102	BCL	CAA-CBA-CGA	2.38	119.95	113.21
13	bi	102	V7N	C36-C18-C17	-2.38	118.97	122.82
11	bd	103	BCL	OBB-CAB-CBB	-2.37	115.13	120.19
13	BW	1001	V7N	C33-C5-C4	2.37	121.71	118.09
11	BX	103	BCL	C4B-C3B-CAB	-2.37	122.57	127.08
13	AB	101	V7N	C43-C39-C29	2.37	129.43	123.67
11	af	102	BCL	C2A-C1A-CHA	2.37	127.98	123.87
13	aj	103	V7N	C33-C5-C4	2.37	121.71	118.09
11	ai	101	BCL	C2A-C1A-CHA	2.37	127.98	123.87
15	C	402	HEC	C1D-C2D-C3D	-2.37	105.35	107.00
13	BQ	1001	V7N	C27-C26-C25	2.37	121.79	118.49
11	BS	1006	BCL	OBB-CAB-CBB	-2.37	115.15	120.19
13	BL	1001	V7N	C38-C26-C27	-2.37	114.47	118.09
13	bl	101	V7N	C36-C18-C19	2.37	121.70	118.09
11	AS	102	BCL	OBB-CAB-CBB	-2.36	115.15	120.19
12	BB	102	LMT	O1'-C1'-C2'	2.36	111.86	108.27
11	AO	101	BCL	CMB-C2B-C3B	2.36	129.40	124.68
11	AX	101	BCL	CMB-C2B-C3B	2.36	129.40	124.68
11	BI	102	BCL	OBB-CAB-CBB	-2.36	115.16	120.19
11	BG	1003	BCL	OBB-CAB-CBB	-2.36	115.16	120.19
12	BT	1003	LMT	C3'-C4'-C5'	-2.36	105.70	110.93
11	BE	103	BCL	C1-O2A-CGA	2.36	122.36	116.65
11	BL	1005	BCL	OBB-CAB-CBB	-2.36	115.17	120.19
12	AD	103	LMT	C1'-O5'-C5'	-2.36	109.12	113.72
12	BD	105	LMT	C1'-O5'-C5'	-2.36	109.12	113.72
12	BA	102	LMT	C1'-O5'-C5'	-2.36	109.12	113.72
13	af	103	V7N	C2-C3-C4	-2.36	121.61	124.91
11	ap	1001	BCL	C2A-C1A-CHA	2.35	127.95	123.87
11	AQ	102	BCL	CMB-C2B-C3B	2.35	129.38	124.68
11	BD	103	BCL	C4B-C3B-CAB	-2.35	122.61	127.08
11	AV	101	BCL	CMB-C2B-C3B	2.35	129.38	124.68
11	aa	1001	BCL	CMB-C2B-C3B	2.35	129.38	124.68
13	bb	101	V7N	C10-C9-C34	2.35	121.66	116.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AA	1002	BCL	OBB-CAB-CBB	-2.35	115.18	120.19
11	BH	1004	BCL	OBB-CAB-CBB	-2.35	115.18	120.19
12	BE	104	LMT	O5'-C5'-C4'	2.35	114.58	109.72
11	AB	105	BCL	C2A-C1A-CHA	2.35	127.94	123.87
11	BR	102	BCL	OBB-CAB-CBB	-2.35	115.18	120.19
11	BA	103	BCL	OBB-CAB-CBB	-2.35	115.18	120.19
12	be	101	LMT	O1'-C1'-C2'	2.35	111.84	108.27
11	AM	102	BCL	CMB-C2B-C3B	2.35	129.37	124.68
12	BX	102	LMT	C3'-C4'-C5'	-2.35	105.73	110.93
11	AE	103	BCL	CMB-C2B-C3B	2.34	129.37	124.68
12	BW	1004	LMT	C1-O1'-C1'	2.34	117.69	113.68
11	BL	1005	BCL	C4B-C3B-CAB	-2.34	122.62	127.08
13	BP	1001	V7N	C35-C13-C12	2.34	121.67	118.09
11	BN	1004	BCL	C2A-C1A-CHA	2.34	127.93	123.87
11	ab	101	BCL	CMB-C2B-C3B	2.34	129.36	124.68
12	BP	1005	LMT	O1'-C1'-C2'	2.34	111.83	108.27
11	AG	101	BCL	CMB-C2B-C3B	2.34	129.36	124.68
12	BU	1003	LMT	O1'-C1'-C2'	2.34	111.83	108.27
14	bo	104	0V9	O2-C10-O4	-2.34	118.24	123.70
11	BC	105	BCL	C4B-C3B-CAB	-2.34	122.63	127.08
11	BJ	1004	BCL	C2A-C1A-CHA	2.34	127.92	123.87
11	AF	102	BCL	CMB-C2B-C3B	2.34	129.35	124.68
12	bi	101	LMT	O5'-C5'-C4'	2.33	114.55	109.72
11	BD	103	BCL	OBB-CAB-CBB	-2.33	115.22	120.19
13	bd	101	V7N	C35-C13-C14	-2.33	119.04	122.82
11	be	105	BCL	OBB-CAB-CBB	-2.33	115.22	120.19
21	L	309	BPH	CMB-C2B-C3B	2.33	129.34	124.68
13	BW	1001	V7N	C35-C13-C14	-2.33	119.04	122.82
11	BP	1002	BCL	OBB-CAB-CBB	-2.33	115.22	120.19
11	ao	102	BCL	C2A-C1A-CHA	2.33	127.91	123.87
11	BD	103	BCL	CBA-CAA-C2A	2.33	120.72	113.79
12	BB	104	LMT	C3'-C4'-C5'	-2.33	105.77	110.93
13	bl	101	V7N	C2-C3-C4	-2.33	121.64	124.91
11	AT	101	BCL	CMB-C2B-C3B	2.33	129.34	124.68
11	BQ	1002	BCL	OBB-CAB-CBB	-2.33	115.23	120.19
13	bf	101	V7N	C35-C13-C14	-2.33	119.05	122.82
11	BE	103	BCL	OBB-CAB-CBB	-2.33	115.23	120.19
13	BQ	1001	V7N	C35-C13-C14	-2.33	119.05	122.82
13	BJ	1001	V7N	C33-C5-C4	2.32	121.64	118.09
11	BO	1005	BCL	C4B-C3B-CAB	-2.32	122.66	127.08
11	BF	102	BCL	OBB-CAB-CBB	-2.32	115.24	120.19
14	bb	104	0V9	O3P-P-O2P	2.32	118.14	108.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	bl	104	BCL	C2A-C1A-CHA	2.32	127.90	123.87
13	BL	1001	V7N	C33-C5-C4	2.32	121.64	118.09
14	aj	101	0V9	O3P-P-O2P	2.32	118.14	108.94
13	BP	1001	V7N	C20-C21-C22	-2.32	124.43	127.69
11	BX	103	BCL	C2A-C1A-CHA	2.32	127.89	123.87
13	ba	102	V7N	C15-C14-C13	-2.32	124.02	127.28
12	BG	1004	LMT	O1'-C1'-C2'	2.32	111.80	108.27
11	BJ	1004	BCL	OBB-CAB-CBB	-2.32	115.25	120.19
11	BI	102	BCL	C4B-C3B-CAB	-2.32	122.67	127.08
11	BJ	1004	BCL	C4B-C3B-CAB	-2.32	122.67	127.08
11	bk	1002	BCL	C2A-C1A-CHA	2.32	127.89	123.87
13	bp	101	V7N	C35-C13-C12	2.32	121.63	118.09
11	AH	101	BCL	CMB-C2B-C3B	2.31	129.31	124.68
11	BW	1002	BCL	OBB-CAB-CBB	-2.31	115.26	120.19
12	BK	1004	LMT	O5'-C5'-C6'	2.31	112.17	106.44
12	AA	1003	LMT	O1'-C1'-C2'	2.31	111.78	108.27
11	AS	102	BCL	C2A-C1A-CHA	2.31	127.88	123.87
11	BH	1004	BCL	C1-O2A-CGA	2.31	122.24	116.65
14	bi	103	0V9	O3P-P-O2P	2.31	118.09	108.94
11	AN	103	BCL	CMB-C2B-C3B	2.31	129.30	124.68
25	ai	102	UYH	C3-C4-C5	-2.31	106.05	110.23
11	AW	101	BCL	CMB-C2B-C3B	2.31	129.29	124.68
13	BE	101	V7N	C15-C14-C13	-2.31	124.04	127.28
11	bd	103	BCL	C2A-C1A-CHA	2.31	127.87	123.87
12	bk	1001	LMT	C1'-O5'-C5'	-2.31	109.22	113.72
11	AI	101	BCL	CAA-CBA-CGA	2.31	119.75	113.21
11	bb	103	BCL	OBB-CAB-CBB	-2.30	115.28	120.19
12	be	101	LMT	O5'-C1'-C2'	-2.30	105.64	110.37
11	AL	102	BCL	CMB-C2B-C3B	2.30	129.29	124.68
13	bn	101	V7N	C35-C13-C14	-2.30	119.08	122.82
13	aj	103	V7N	C38-C26-C27	-2.30	114.57	118.09
11	BO	1005	BCL	OBB-CAB-CBB	-2.30	115.28	120.19
13	AH	104	V7N	C27-C26-C25	2.30	121.70	118.49
13	BV	1001	V7N	C27-C26-C25	2.30	121.70	118.49
12	BI	101	LMT	C3'-C4'-C5'	-2.30	105.83	110.93
13	BH	1001	V7N	C35-C13-C14	-2.30	119.09	122.82
13	bn	101	V7N	C16-C17-C18	-2.30	124.05	127.28
15	C	404	HEC	CAD-CBD-CGD	-2.30	107.64	113.83
11	BP	1002	BCL	CBA-CAA-C2A	2.30	120.63	113.79
13	bh	101	V7N	C36-C18-C19	2.30	121.59	118.09
13	bf	101	V7N	C36-C18-C19	2.29	121.59	118.09
13	bc	101	V7N	C36-C18-C19	2.29	121.59	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	M	408	LMT	C1-O1'-C1'	2.29	117.60	113.68
11	BA	103	BCL	C4B-C3B-CAB	-2.29	122.72	127.08
12	BW	1004	LMT	C1'-O5'-C5'	-2.29	109.25	113.72
11	AU	102	BCL	CMB-C2B-C3B	2.29	129.26	124.68
11	AL	103	BCL	OBB-CAB-CBB	-2.29	115.31	120.19
11	AN	105	BCL	C2A-C1A-CHA	2.29	127.84	123.87
11	BU	1001	BCL	OBB-CAB-CBB	-2.29	115.31	120.19
25	ai	102	UYH	C12-C11-C10	-2.29	105.32	113.69
23	M	405	CRT	C35-C33-C32	2.28	122.60	119.01
13	BL	1001	V7N	C27-C26-C25	2.28	121.67	118.49
14	AJ	104	OV9	O3-C30-O5	-2.28	117.92	123.63
12	BU	1002	LMT	C3'-C4'-C5'	-2.28	105.88	110.93
11	bk	1002	BCL	C1-O2A-CGA	2.28	122.17	116.65
12	bj	102	LMT	C3'-C4'-C5'	-2.28	105.88	110.93
11	AJ	101	BCL	C4B-C3B-CAB	-2.28	122.75	127.08
11	bm	103	BCL	C1C-NC-C4C	2.28	107.72	106.68
12	BM	1005	LMT	C1'-O5'-C5'	-2.28	109.27	113.72
18	M	402	CD4	C28-C15-C16	-2.28	106.48	111.78
20	M	407	MQ8	C11-C3-C4	-2.28	116.18	118.58
11	bm	103	BCL	C2A-C1A-CHA	2.28	127.82	123.87
13	BL	1001	V7N	C35-C13-C12	2.27	121.56	118.09
13	BG	1001	V7N	C35-C13-C12	2.27	121.56	118.09
13	bi	102	V7N	C35-C13-C14	-2.27	119.13	122.82
13	ba	102	V7N	C27-C26-C25	2.27	121.66	118.49
13	aj	103	V7N	C16-C17-C18	-2.27	124.09	127.28
13	AT	103	V7N	C33-C5-C4	2.27	121.56	118.09
11	bi	106	BCL	C2A-C1A-CHA	2.27	127.81	123.87
12	BO	1004	LMT	C3'-C4'-C5'	-2.27	105.89	110.93
11	AD	101	BCL	C2A-C1A-CHA	2.27	127.81	123.87
11	bb	103	BCL	C2A-C1A-CHA	2.27	127.81	123.87
12	bb	105	LMT	C1-O1'-C1'	2.27	117.56	113.68
11	bg	1002	BCL	C6-C5-C3	2.27	118.99	113.47
14	bp	103	OV9	O2-C10-O4	-2.27	118.41	123.70
11	M	406	BCL	C1C-NC-C4C	2.27	107.71	106.68
13	ba	102	V7N	C35-C13-C12	2.27	121.55	118.09
12	BC	102	LMT	C3'-C4'-C5'	-2.26	105.91	110.93
13	BH	1001	V7N	C2-C3-C4	-2.26	121.74	124.91
13	AH	104	V7N	C29-C28-C27	-2.26	116.65	123.20
11	BA	103	BCL	C2A-C1A-CHA	2.26	127.79	123.87
13	AW	104	V7N	C35-C13-C14	-2.26	119.16	122.82
11	AP	101	BCL	C6-C5-C3	2.26	118.97	113.47
13	bd	101	V7N	C36-C18-C19	2.26	121.54	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	bb	101	V7N	C36-C18-C17	-2.26	119.16	122.82
12	AT	102	LMT	O2'-C2'-C3'	-2.26	105.06	110.38
13	BP	1001	V7N	C36-C18-C17	-2.26	119.16	122.82
13	BE	101	V7N	C35-C13-C14	-2.25	119.16	122.82
13	bi	102	V7N	C27-C26-C25	2.25	121.63	118.49
11	AV	104	BCL	C4B-C3B-CAB	-2.25	122.79	127.08
13	BO	1001	V7N	C33-C5-C6	-2.25	119.17	122.82
11	AP	102	BCL	C1-C2-C3	2.25	129.89	126.20
11	BK	1005	BCL	C4B-C3B-CAB	-2.25	122.80	127.08
13	AE	105	V7N	C33-C5-C4	2.25	121.52	118.09
11	BM	1004	BCL	C4B-C3B-CAB	-2.25	122.80	127.08
18	ae	102	CD4	C37-C36-C35	-2.25	105.46	113.69
13	bb	101	V7N	C33-C5-C6	-2.25	119.17	122.82
11	AV	104	BCL	C2A-C1A-CHA	2.25	127.77	123.87
13	AT	103	V7N	C35-C13-C14	-2.25	119.18	122.82
11	BS	1006	BCL	C2A-C1A-CHA	2.24	127.76	123.87
12	AN	104	LMT	C3'-C4'-C5'	-2.24	105.96	110.93
14	AJ	104	OV9	O3P-P-O2P	2.24	117.82	108.94
14	bf	104	OV9	O3P-P-O2P	2.24	117.82	108.94
12	BT	1003	LMT	O5B-C5B-C4B	2.24	113.74	109.70
14	bb	102	OV9	O2-C10-O4	-2.24	118.47	123.70
11	BQ	1002	BCL	CBA-CAA-C2A	2.24	120.46	113.79
11	AH	102	BCL	C4A-NA-C1A	2.24	107.70	106.68
12	BK	1003	LMT	C1-O1'-C1'	2.24	117.51	113.68
13	BV	1001	V7N	C33-C5-C4	2.24	121.51	118.09
13	bc	101	V7N	C35-C13-C14	-2.24	119.19	122.82
11	bb	103	BCL	C1C-NC-C4C	2.24	107.70	106.68
21	M	404	BPH	C1-C2-C3	2.24	129.86	126.20
11	be	105	BCL	C2A-C1A-CHA	2.23	127.74	123.87
13	ba	102	V7N	C10-C9-C34	2.23	121.40	116.43
13	bn	101	V7N	C33-C5-C4	2.23	121.50	118.09
13	bm	101	V7N	C33-C5-C4	2.23	121.50	118.09
11	BT	1002	BCL	C16-C15-C13	2.23	123.39	115.97
18	M	402	CD4	C15-O2-C14	2.23	123.14	117.80
13	af	103	V7N	C38-C26-C27	-2.23	114.68	118.09
21	L	309	BPH	O2D-CGD-CBD	2.23	113.40	110.95
11	AL	103	BCL	C1C-NC-C4C	2.23	107.70	106.68
11	BF	102	BCL	C2A-C1A-CHA	2.23	127.74	123.87
11	BG	1003	BCL	CBA-CAA-C2A	2.23	120.43	113.79
11	AP	102	BCL	C6-C5-C3	2.23	118.90	113.47
13	AB	101	V7N	C38-C26-C27	-2.23	114.68	118.09
12	BP	1005	LMT	O5'-C5'-C4'	2.23	114.33	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BH	1005	LMT	O5'-C1'-C2'	-2.23	105.79	110.37
13	AB	101	V7N	C28-C27-C26	-2.23	120.25	126.36
12	BB	102	LMT	C3'-C4'-C5'	-2.23	105.99	110.93
13	BO	1001	V7N	C35-C13-C14	-2.23	119.21	122.82
11	bp	104	BCL	C1C-NC-C4C	2.23	107.69	106.68
11	AH	102	BCL	C6-C5-C3	2.23	118.89	113.47
13	bp	101	V7N	C36-C18-C19	2.23	121.49	118.09
11	AS	104	BCL	C11-C12-C13	-2.22	108.57	115.97
11	L	303	BCL	CMB-C2B-C3B	2.22	129.13	124.68
13	BV	1001	V7N	C36-C18-C19	2.22	121.49	118.09
13	AE	105	V7N	C35-C13-C12	2.22	121.48	118.09
11	BW	1002	BCL	C2A-C1A-CHA	2.22	127.72	123.87
14	bc	103	OV9	O3P-P-O2P	2.22	117.74	108.94
13	AW	104	V7N	C38-C26-C27	-2.22	114.70	118.09
13	bb	101	V7N	C35-C13-C14	-2.22	119.22	122.82
11	am	1001	BCL	C2A-C1A-CHA	2.22	127.72	123.87
12	BC	103	LMT	C3'-C4'-C5'	-2.22	106.02	110.93
11	BS	1006	BCL	C4B-C3B-CAB	-2.22	122.86	127.08
11	M	406	BCL	CMB-C2B-C3B	2.22	129.11	124.68
11	BU	1001	BCL	C4B-C3B-CAB	-2.22	122.86	127.08
13	ba	102	V7N	C33-C5-C6	-2.21	119.23	122.82
11	bh	102	BCL	C2A-C1A-CHA	2.21	127.71	123.87
13	bo	102	V7N	C35-C13-C14	-2.21	119.23	122.82
13	BQ	1001	V7N	C33-C5-C4	2.21	121.47	118.09
11	bd	103	BCL	C1C-NC-C4C	2.21	107.69	106.68
12	AK	101	LMT	O5'-C1'-O1'	-2.21	104.82	110.04
14	bp	103	OV9	O3-C30-O5	-2.21	118.10	123.63
13	af	103	V7N	C35-C13-C14	-2.21	119.24	122.82
13	bb	101	V7N	C36-C18-C19	2.21	121.46	118.09
11	L	303	BCL	C1-O2A-CGA	2.21	121.99	116.65
11	bk	1002	BCL	C1C-NC-C4C	2.20	107.68	106.68
11	M	406	BCL	OBB-CAB-CBB	-2.20	115.50	120.19
11	L	304	BCL	C1C-NC-C4C	2.20	107.68	106.68
11	AN	105	BCL	CBA-CAA-C2A	2.20	120.33	113.79
11	AL	103	BCL	CBA-CAA-C2A	2.20	120.33	113.79
13	bp	101	V7N	C36-C18-C17	-2.20	119.26	122.82
11	BN	1004	BCL	CBA-CAA-C2A	2.20	120.32	113.79
14	bk	1003	OV9	O3P-P-O2P	2.19	117.63	108.94
12	BI	104	LMT	C3'-C4'-C5'	-2.19	106.07	110.93
13	AQ	104	V7N	C36-C18-C17	-2.19	119.26	122.82
13	BB	101	V7N	C15-C14-C13	-2.19	124.20	127.28
13	BT	1001	V7N	C35-C13-C12	2.19	121.44	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	C	403	HEC	C1D-C2D-C3D	-2.19	105.47	107.00
11	aj	102	BCL	C2A-C1A-CHA	2.19	127.67	123.87
14	be	104	0V9	O3P-P-O2P	2.19	117.62	108.94
11	bg	1002	BCL	C2A-C1A-CHA	2.19	127.67	123.87
24	af	101	V7B	C3-C4-C5	-2.19	106.08	110.93
13	bl	101	V7N	C35-C13-C14	-2.19	119.27	122.82
12	AM	103	LMT	O1'-C1'-C2'	2.19	111.59	108.27
12	BX	101	LMT	O1'-C1'-C2'	2.19	111.59	108.27
14	bn	102	0V9	O3P-P-O2P	2.19	117.60	108.94
17	C	406	V75	C3-O3-C3A	-2.18	114.32	117.72
12	bc	102	LMT	C1'-O5'-C5'	-2.18	109.45	113.72
13	bd	101	V7N	C38-C26-C27	-2.18	114.75	118.09
11	bi	106	BCL	C1C-NC-C4C	2.18	107.67	106.68
13	bf	101	V7N	C11-C10-C9	2.18	130.09	127.28
13	BM	1001	V7N	C1-C2-C3	2.18	118.64	112.98
14	bm	104	0V9	O3P-P-O2P	2.18	117.57	108.94
12	BV	1004	LMT	O1'-C1'-C2'	2.18	111.58	108.27
12	BJ	1002	LMT	C3'-C4'-C5'	-2.18	106.11	110.93
14	L	310	0V9	O3-C30-O5	-2.18	118.19	123.63
11	BK	1005	BCL	C2A-C1A-CHA	2.18	127.64	123.87
25	ai	102	UYH	O6-C1-O1	-2.18	104.90	110.04
11	ao	102	BCL	C4B-C3B-CAB	-2.17	122.94	127.08
14	bb	104	0V9	O3-C30-O5	-2.17	118.19	123.63
12	bi	104	LMT	C1'-O5'-C5'	-2.17	109.47	113.72
13	bd	101	V7N	C1-C2-C3	2.17	118.63	112.98
13	BE	101	V7N	C27-C26-C25	2.17	121.52	118.49
11	bj	104	BCL	C1C-NC-C4C	2.17	107.67	106.68
11	L	303	BCL	OBB-CAB-CBB	-2.17	115.56	120.19
11	bj	104	BCL	C2A-C1A-CHA	2.17	127.63	123.87
12	bm	102	LMT	C1-O1'-C1'	2.17	117.39	113.68
14	AQ	105	0V9	O3P-P-O2P	2.17	117.54	108.94
11	ab	101	BCL	C16-C15-C13	2.17	123.18	115.97
11	BB	105	BCL	C4B-C3B-CAB	-2.17	122.95	127.08
13	AW	104	V7N	C29-C28-C27	-2.17	116.92	123.20
11	AR	101	BCL	C1C-NC-C4C	2.17	107.67	106.68
11	bn	104	BCL	C1C-NC-C4C	2.17	107.67	106.68
11	BR	102	BCL	C4B-C3B-CAB	-2.16	122.96	127.08
13	af	103	V7N	C20-C21-C22	-2.16	124.65	127.69
12	AK	101	LMT	O1'-C1'-C2'	2.16	111.56	108.27
12	BD	105	LMT	O1'-C1'-C2'	2.16	111.56	108.27
13	be	102	V7N	C36-C18-C17	-2.16	119.31	122.82
12	BG	1005	LMT	C3'-C4'-C5'	-2.16	106.14	110.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AH	104	V7N	C35-C13-C12	2.16	121.39	118.09
11	AG	102	BCL	CBA-CAA-C2A	2.16	120.23	113.79
11	BP	1002	BCL	C4B-C3B-CAB	-2.16	122.97	127.08
13	bj	101	V7N	C11-C10-C9	2.16	130.07	127.28
14	L	310	0V9	O3P-P-O2P	2.16	117.50	108.94
13	BQ	1001	V7N	C11-C10-C9	2.16	130.07	127.28
11	BF	102	BCL	C4B-C3B-CAB	-2.16	122.97	127.08
11	AS	101	BCL	C6-C5-C3	2.16	118.72	113.47
12	L	306	LMT	C3'-C4'-C5'	-2.16	106.15	110.93
13	BK	1001	V7N	C36-C18-C17	-2.15	119.33	122.82
13	bo	102	V7N	C36-C18-C19	2.15	121.38	118.09
14	bi	105	0V9	O3P-P-O2P	2.15	117.47	108.94
12	bf	102	LMT	C1-O1'-C1'	2.15	117.36	113.68
13	bl	101	V7N	C11-C10-C9	2.15	130.06	127.28
18	ad	101	CD4	O2-C15-C28	2.15	116.06	108.34
11	AU	101	BCL	C4B-C3B-CAB	-2.15	122.99	127.08
11	bh	102	BCL	C1C-NC-C4C	2.15	107.66	106.68
11	bo	105	BCL	C4B-C3B-CAB	-2.15	122.99	127.08
13	aj	103	V7N	C2-C3-C4	-2.14	121.90	124.91
11	AE	102	BCL	C1C-NC-C4C	2.14	107.66	106.68
11	BG	1003	BCL	C4B-C3B-CAB	-2.14	123.00	127.08
24	ag	103	V7B	O1-C1-C2	2.14	111.53	108.27
12	BI	103	LMT	C3'-C4'-C5'	-2.14	106.18	110.93
11	bg	1002	BCL	C1C-NC-C4C	2.14	107.66	106.68
13	bl	101	V7N	C38-C26-C27	-2.14	114.82	118.09
12	BF	101	LMT	C3'-C4'-C5'	-2.14	106.18	110.93
13	BC	101	V7N	C27-C26-C25	2.14	121.47	118.49
13	bo	102	V7N	C36-C18-C17	-2.14	119.35	122.82
11	bf	103	BCL	C4B-C3B-CAB	-2.14	123.01	127.08
11	BH	1004	BCL	C4B-C3B-CAB	-2.14	123.01	127.08
13	BN	1001	V7N	C27-C26-C25	2.14	121.47	118.49
14	bf	104	0V9	C2-O2-C10	2.14	122.91	117.80
11	bo	105	BCL	C2A-C1A-CHA	2.14	127.58	123.87
18	M	409	CD4	C33-O16-C46	2.14	122.91	117.80
11	AN	102	BCL	C4B-C3B-CAB	-2.14	123.02	127.08
11	AV	102	BCL	C4B-C3B-CAB	-2.14	123.02	127.08
13	AQ	104	V7N	C35-C13-C12	2.14	121.35	118.09
12	ba	101	LMT	O5B-C5B-C4B	2.13	113.55	109.70
12	ac	1001	LMT	C1'-O5'-C5'	-2.13	109.55	113.72
13	BC	101	V7N	C35-C13-C14	-2.13	119.36	122.82
12	BI	104	LMT	C1-O1'-C1'	2.13	117.32	113.68
12	BS	1002	LMT	C3'-C4'-C5'	-2.13	106.20	110.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	an	1001	BCL	C4B-C3B-CAB	-2.13	123.02	127.08
14	bl	103	0V9	O3P-P-O2P	2.13	117.38	108.94
12	AR	103	LMT	O5'-C5'-C4'	2.13	114.13	109.72
12	BD	101	LMT	O5'-C1'-C2'	-2.13	105.99	110.37
13	BM	1001	V7N	C20-C21-C22	-2.13	124.69	127.69
21	M	404	BPH	C6-C5-C3	2.13	118.66	113.47
12	AN	101	LMT	C1'-O5'-C5'	-2.13	109.56	113.72
11	bd	103	BCL	C4B-C3B-CAB	-2.13	123.03	127.08
11	be	105	BCL	C4B-C3B-CAB	-2.13	123.03	127.08
13	BK	1001	V7N	C35-C13-C14	-2.13	119.37	122.82
18	ag	101	CD4	O2-C14-O1	-2.13	118.73	123.70
12	BS	1004	LMT	C3'-C4'-C5'	-2.13	106.22	110.93
11	ba	103	BCL	C1C-NC-C4C	2.13	107.65	106.68
13	BB	101	V7N	C35-C13-C14	-2.13	119.37	122.82
13	BK	1001	V7N	C15-C14-C13	-2.13	124.30	127.28
11	AJ	101	BCL	CBA-CAA-C2A	2.12	120.11	113.79
14	bl	103	0V9	O1P-P-O4P	-2.12	97.94	107.57
18	ad	101	CD4	C31-C30-C29	-2.12	106.54	112.65
11	bc	104	BCL	C1C-NC-C4C	2.12	107.65	106.68
11	BV	1002	BCL	C4B-C3B-CAB	-2.12	123.04	127.08
19	H1	1003	PGW	O03-C19-C20	2.12	118.31	111.83
11	bc	104	BCL	C4B-C3B-CAB	-2.12	123.04	127.08
11	BT	1002	BCL	C4B-C3B-CAB	-2.12	123.05	127.08
13	BW	1001	V7N	C20-C21-C22	-2.12	124.71	127.69
12	BV	1004	LMT	C1'-O5'-C5'	-2.11	109.59	113.72
11	be	105	BCL	C1C-NC-C4C	2.11	107.64	106.68
12	AR	103	LMT	O5'-C1'-C2'	-2.11	106.03	110.37
13	bh	101	V7N	C35-C13-C14	-2.11	119.39	122.82
21	M	404	BPH	O2D-CGD-CBD	2.11	113.27	110.95
12	BU	1003	LMT	C3'-C4'-C5'	-2.11	106.25	110.93
12	BT	1003	LMT	O1'-C1'-C2'	2.11	111.48	108.27
13	bm	101	V7N	C35-C13-C14	-2.11	119.40	122.82
21	L	309	BPH	CBC-CAC-C3C	2.11	117.93	113.78
14	bm	104	0V9	O3-C30-O5	-2.11	118.35	123.63
11	AS	102	BCL	C1C-NC-C4C	2.11	107.64	106.68
12	BK	1002	LMT	C1'-O5'-C5'	-2.11	109.60	113.72
12	bo	103	LMT	C1'-O5'-C5'	-2.11	109.60	113.72
11	BQ	1002	BCL	C4B-C3B-CAB	-2.11	123.07	127.08
12	bn	103	LMT	O1'-C1'-C2'	2.10	111.47	108.27
11	BE	103	BCL	C4B-C3B-CAB	-2.10	123.08	127.08
11	bn	104	BCL	C2A-C1A-CHA	2.10	127.52	123.87
12	bp	102	LMT	C1'-O5'-C5'	-2.10	109.61	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	M	404	BPH	CMD-C2D-C3D	2.10	128.88	124.68
11	ah	1001	BCL	C1-C2-C3	-2.10	122.75	126.20
13	bp	101	V7N	C38-C26-C27	-2.10	114.88	118.09
11	AH	102	BCL	C11-C10-C8	2.10	122.95	115.97
21	L	309	BPH	CMD-C2D-C3D	2.10	128.88	124.68
15	C	404	HEC	CAA-CBA-CGA	-2.10	108.18	113.83
12	BG	1004	LMT	C1'-O5'-C5'	-2.09	109.63	113.72
13	BS	1001	V7N	C35-C13-C14	-2.09	119.42	122.82
11	am	1001	BCL	C4B-C3B-CAB	-2.09	123.10	127.08
13	bd	101	V7N	C36-C18-C17	-2.09	119.43	122.82
11	AS	102	BCL	C4B-C3B-CAB	-2.09	123.10	127.08
12	ac	1001	LMT	C3'-C4'-C5'	-2.09	106.30	110.93
11	AH	102	BCL	C4B-C3B-CAB	-2.09	123.11	127.08
12	BK	1002	LMT	C3'-C4'-C5'	-2.09	106.30	110.93
13	bo	102	V7N	C2-C3-C4	-2.09	121.98	124.91
13	bi	102	V7N	C36-C18-C19	2.09	121.28	118.09
13	BQ	1001	V7N	O45-C40-C39	2.09	127.47	122.09
12	AN	101	LMT	O1'-C1'-C2'	2.09	111.44	108.27
11	BN	1004	BCL	C4B-C3B-CAB	-2.09	123.11	127.08
13	AW	104	V7N	C15-C14-C13	-2.09	124.35	127.28
13	BP	1001	V7N	C27-C26-C25	2.09	121.40	118.49
13	BC	101	V7N	C36-C18-C17	-2.08	119.44	122.82
15	C	401	HEC	C1D-C2D-C3D	-2.08	105.55	107.00
13	bh	101	V7N	C36-C18-C17	-2.08	119.44	122.82
11	AG	102	BCL	C4B-C3B-CAB	-2.08	123.12	127.08
11	AF	101	BCL	C4B-C3B-CAB	-2.08	123.12	127.08
11	BW	1002	BCL	C4B-C3B-CAB	-2.08	123.12	127.08
11	bo	105	BCL	C1C-NC-C4C	2.08	107.63	106.68
11	bf	103	BCL	C1C-NC-C4C	2.08	107.63	106.68
13	BQ	1001	V7N	C16-C17-C18	-2.08	124.36	127.28
11	af	102	BCL	C1-O2A-CGA	2.08	121.68	116.65
21	M	404	BPH	CMB-C2B-C3B	2.08	128.83	124.68
14	bj	103	OV9	O3-C30-O5	-2.08	118.44	123.63
11	BO	1005	BCL	C2A-C1A-CHA	2.08	127.47	123.87
13	BJ	1001	V7N	C35-C13-C14	-2.08	119.45	122.82
12	BV	1003	LMT	O5B-C5B-C4B	2.07	113.44	109.70
12	L	307	LMT	C1'-O5'-C5'	-2.07	109.68	113.72
13	BE	101	V7N	O45-C40-C39	2.07	127.43	122.09
13	bp	101	V7N	C15-C14-C13	-2.07	124.37	127.28
16	C1	301	NDG	O4-C4-C3	-2.07	105.50	110.38
12	BV	1005	LMT	O5'-C1'-C2'	-2.07	106.12	110.37
11	AW	103	BCL	C4B-C3B-CAB	-2.07	123.14	127.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	ba	102	V7N	C7-C6-C5	-2.07	124.38	127.28
11	ac	1002	BCL	C4B-C3B-CAB	-2.07	123.15	127.08
14	bf	104	0V9	O3-C30-O5	-2.07	118.46	123.63
11	AA	1002	BCL	C4B-C3B-CAB	-2.07	123.15	127.08
13	bl	101	V7N	C3-C4-C5	2.06	129.01	125.89
14	bp	103	0V9	O3P-P-O2P	2.06	117.12	108.94
13	BS	1001	V7N	O45-C40-C39	2.06	127.41	122.09
11	bk	1002	BCL	C4B-C3B-CAB	-2.06	123.16	127.08
11	AB	102	BCL	C4B-C3B-CAB	-2.06	123.16	127.08
23	M	405	CRT	C31-C32-C33	-2.06	124.39	127.28
13	bh	101	V7N	C20-C21-C22	-2.06	124.79	127.69
12	BN	1005	LMT	C1-O1'-C1'	2.06	117.20	113.68
11	AM	101	BCL	C4B-C3B-CAB	-2.06	123.16	127.08
13	bf	101	V7N	C36-C18-C17	-2.06	119.48	122.82
11	M	406	BCL	C1-C2-C3	-2.06	122.83	126.20
11	AE	102	BCL	C4B-C3B-CAB	-2.06	123.17	127.08
12	AG	103	LMT	C1'-O5'-C5'	-2.05	109.71	113.72
13	bj	101	V7N	C35-C13-C14	-2.05	119.49	122.82
12	bl	102	LMT	O1'-C1'-C2'	2.05	111.39	108.27
14	bi	105	0V9	C2-O2-C10	2.05	122.71	117.80
13	BV	1001	V7N	C35-C13-C12	2.05	121.22	118.09
12	BS	1004	LMT	C1'-O5'-C5'	-2.05	109.72	113.72
11	bp	104	BCL	C4B-C3B-CAB	-2.05	123.18	127.08
12	BF	104	LMT	O5'-C1'-C2'	-2.05	106.17	110.37
12	BA	105	LMT	C3B-C4B-C5B	-2.05	106.52	110.23
13	BL	1001	V7N	O45-C40-C39	2.04	127.36	122.09
12	BV	1005	LMT	C1'-O5'-C5'	-2.04	109.73	113.72
11	bh	102	BCL	C4B-C3B-CAB	-2.04	123.19	127.08
12	AD	103	LMT	C3'-C4'-C5'	-2.04	106.40	110.93
13	bm	101	V7N	C36-C18-C17	-2.04	119.51	122.82
13	BM	1001	V7N	C36-C18-C17	-2.04	119.51	122.82
18	ad	101	CD4	O14-C35-C36	2.04	118.06	111.83
13	bm	101	V7N	O45-C40-C39	2.04	127.35	122.09
12	BD	101	LMT	O1'-C1'-C2'	2.04	111.37	108.27
12	BC	103	LMT	C1-O1'-C1'	2.04	117.16	113.68
14	bj	103	0V9	O3P-P-O2P	2.04	117.01	108.94
18	M	402	CD4	O2-C14-O1	-2.04	118.94	123.70
11	AR	101	BCL	C4B-C3B-CAB	-2.03	123.21	127.08
23	M	405	CRT	C36-C35-C33	2.03	128.97	125.89
11	AB	105	BCL	C4B-C3B-CAB	-2.03	123.21	127.08
11	AS	104	BCL	C4B-C3B-CAB	-2.03	123.21	127.08
13	BH	1001	V7N	C36-C18-C17	-2.03	119.52	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BL	1003	LMT	C1-O1'-C1'	2.03	117.15	113.68
11	BR	102	BCL	C6-C5-C3	2.03	118.42	113.47
11	bi	106	BCL	C4B-C3B-CAB	-2.03	123.21	127.08
13	BV	1001	V7N	O45-C40-C39	2.03	127.33	122.09
18	ae	102	CD4	O4-C17-C18	-2.03	115.84	123.78
13	BW	1001	V7N	O45-C40-C39	2.03	127.33	122.09
14	bd	104	OV9	O3-C30-O5	-2.03	118.55	123.63
11	AU	101	BCL	C1-C2-C3	2.03	129.52	126.20
11	AI	101	BCL	C4B-C3B-CAB	-2.03	123.22	127.08
11	ai	101	BCL	C4B-C3B-CAB	-2.03	123.22	127.08
11	bm	103	BCL	C4B-C3B-CAB	-2.03	123.22	127.08
18	ae	102	CD4	O14-C35-C36	2.03	118.02	111.83
11	AL	103	BCL	C4B-C3B-CAB	-2.03	123.22	127.08
11	bj	104	BCL	C4B-C3B-CAB	-2.03	123.22	127.08
11	bn	104	BCL	C4B-C3B-CAB	-2.03	123.22	127.08
18	M	409	CD4	C12-C13-C14	-2.03	106.27	113.69
13	bi	102	V7N	O45-C40-C39	2.03	127.31	122.09
12	L	308	LMT	O5B-C5B-C4B	2.02	113.35	109.70
12	bi	101	LMT	C2'-C3'-C4'	2.02	114.28	109.68
11	AU	101	BCL	C1-O2A-CGA	2.02	121.55	116.65
11	AP	101	BCL	C4B-C3B-CAB	-2.02	123.23	127.08
15	C	401	HEC	CBD-CAD-C3D	-2.02	109.14	112.54
13	BQ	1001	V7N	C36-C18-C19	2.02	121.18	118.09
12	BB	103	LMT	C3'-C4'-C5'	-2.02	106.44	110.93
12	BP	1005	LMT	C1'-C2'-C3'	-2.02	105.75	110.01
14	bc	103	OV9	O3-C30-O5	-2.02	118.57	123.63
14	be	104	OV9	O3-C30-O5	-2.02	118.57	123.63
12	bn	103	LMT	C3B-C4B-C5B	-2.02	106.56	110.23
12	BR	103	LMT	O5B-C5B-C4B	2.02	113.34	109.70
13	BO	1001	V7N	O45-C40-C39	2.02	127.30	122.09
18	ad	101	CD4	O3-C17-C18	2.02	118.00	111.83
14	bi	105	OV9	O1P-P-O4P	-2.02	98.41	107.57
12	bg	1001	LMT	C1'-O5'-C5'	-2.02	109.78	113.72
12	be	103	LMT	C3'-C4'-C5'	-2.02	106.45	110.93
13	bc	101	V7N	C36-C18-C17	-2.02	119.55	122.82
12	bo	101	LMT	O1'-C1'-C2'	2.02	111.34	108.27
11	AH	102	BCL	CAA-CBA-CGA	2.02	118.94	113.21
13	AB	101	V7N	C23-C24-C25	2.02	121.99	112.02
12	M	408	LMT	O5'-C1'-O1'	-2.02	105.28	110.04
11	AB	103	BCL	C6-C5-C3	2.02	118.38	113.47
12	BX	101	LMT	C1'-O5'-C5'	-2.01	109.79	113.72
13	BJ	1001	V7N	C36-C18-C17	-2.01	119.56	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	BC	101	V7N	O45-C40-C39	2.01	127.28	122.09
11	AI	103	BCL	CAA-CBA-CGA	2.01	118.91	113.21
13	BB	101	V7N	C36-C18-C17	-2.01	119.56	122.82
13	BM	1001	V7N	O45-C40-C39	2.01	127.27	122.09
11	BS	1006	BCL	C6-C5-C3	2.01	118.36	113.47
14	bo	104	0V9	O3P-P-O2P	2.01	116.90	108.94
21	M	404	BPH	OBB-CAB-CBB	-2.01	115.91	120.19
13	BP	1001	V7N	O45-C40-C39	2.01	127.27	122.09
12	AI	102	LMT	O1'-C1'-C2'	2.01	111.32	108.27
13	aj	103	V7N	C11-C10-C9	2.01	129.87	127.28
12	BF	103	LMT	C3'-C4'-C5'	-2.01	106.48	110.93
11	M	403	BCL	C4B-C3B-CAB	-2.01	123.26	127.08
12	L	305	LMT	C3'-C4'-C5'	-2.01	106.48	110.93
12	BX	102	LMT	O5'-C1'-O1'	-2.00	105.31	110.04
11	AV	104	BCL	C6-C5-C3	2.00	118.35	113.47
12	AS	103	LMT	C1'-O5'-C5'	-2.00	109.81	113.72
12	BS	1005	LMT	O1'-C1'-C2'	2.00	111.31	108.27
12	BF	101	LMT	C1'-O5'-C5'	-2.00	109.81	113.72
11	ab	101	BCL	C2A-C1A-CHA	2.00	127.34	123.87
13	AH	104	V7N	C36-C18-C17	-2.00	119.57	122.82
21	L	309	BPH	C1-O2A-CGA	2.00	121.49	116.65

There are no chirality outliers.

All (1780) 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	AF	101	BCL	CAD-CBD-CGD-O2D
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	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	AM	101	BCL	C1A-C2A-CAA-CBA
11	AM	101	BCL	C3A-C2A-CAA-CBA
11	AQ	101	BCL	C1A-C2A-CAA-CBA
11	AQ	101	BCL	C3A-C2A-CAA-CBA
11	AR	101	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
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	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	BA	103	BCL	C1A-C2A-CAA-CBA
11	BA	103	BCL	C3A-C2A-CAA-CBA
11	BL	1005	BCL	C1A-C2A-CAA-CBA
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	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	O5'-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	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	BD	101	LMT	C2'-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	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	O5'-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'
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-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

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Mol	Chain	Res	Type	Atoms
13	bb	101	V7N	O32-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	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	bn	101	V7N	C38-C26-C27-C28
13	bn	101	V7N	C27-C28-C29-C39
13	bn	101	V7N	C3-C4-C5-C6
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	AJ	104	0V9	C4-O4P-P-O3P
14	AQ	105	0V9	C1-O3P-P-O1P
14	AQ	105	0V9	C1-O3P-P-O2P
14	AQ	105	0V9	C1-O3P-P-O4P
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	aj	101	0V9	C1-O3P-P-O4P
14	aj	101	0V9	C4-O4P-P-O3P
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
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	bf	104	0V9	C4-O4P-P-O3P
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	bi	105	0V9	C1-O3P-P-O1P

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Mol	Chain	Res	Type	Atoms
14	bj	103	0V9	C2-C1-O3P-P
14	bj	103	0V9	C5-C4-O4P-P
14	bj	103	0V9	C1-O3P-P-O4P
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	bl	103	0V9	C1-O3P-P-O1P
14	bm	104	0V9	O2-C2-C3-O3
14	bm	104	0V9	C5-C4-O4P-P
14	bm	104	0V9	C4-O4P-P-O1P
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	C1-O3P-P-O4P
14	bp	103	0V9	C4-O4P-P-O1P
18	H1	1001	CD4	C29-O8-P1-O5
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-O12
19	H1	1003	PGW	C03-O11-P-O14
19	H1	1003	PGW	C04-O12-P-O14
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
18	ag	101	CD4	O1-C14-O2-C15
11	BJ	1004	BCL	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
11	af	102	BCL	C3-C5-C6-C7
12	BL	1004	LMT	O5B-C1B-O1B-C4'
11	AN	103	BCL	C4-C3-C5-C6
20	M	407	MQ8	C45-C43-C44-C46
11	AN	103	BCL	C2-C3-C5-C6
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	C2B-C1B-O1B-C4'
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
18	M	402	CD4	O1-C14-O2-C15
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	BO	1002	LMT	O5B-C1B-O1B-C4'
12	AE	106	LMT	O5'-C5'-C6'-O6'
12	AP	103	LMT	O5'-C5'-C6'-O6'
12	BA	104	LMT	O5'-C5'-C6'-O6'
12	AM	103	LMT	O5B-C1B-O1B-C4'
12	BH	1005	LMT	O5'-C5'-C6'-O6'
12	BQ	1003	LMT	O5'-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
20	L	302	MQ8	C24-C23-C25-C26
12	BN	1002	LMT	O5'-C5'-C6'-O6'
20	L	302	MQ8	C18-C20-C21-C22
20	ao	101	MQ8	C13-C15-C16-C17
14	AQ	105	0V9	C2-C1-O3P-P
12	BC	103	LMT	O5'-C5'-C6'-O6'
12	ac	1001	LMT	O5'-C5'-C6'-O6'
24	af	101	V7B	O52-C47-C48-O53
11	BM	1004	BCL	C2A-CAA-CBA-CGA
12	BA	102	LMT	O5'-C1'-O1'-C1
12	BD	101	LMT	O5'-C1'-O1'-C1
12	bn	103	LMT	O5'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
12	AH	105	LMT	O5B-C5B-C6B-O6B
12	BX	101	LMT	O5'-C5'-C6'-O6'
12	BH	1005	LMT	C4'-C5'-C6'-O6'
14	bf	104	0V9	C10-C11-C12-C13
12	BT	1004	LMT	O5'-C5'-C6'-O6'
12	AH	105	LMT	O5'-C5'-C6'-O6'
12	BR	104	LMT	O5B-C1B-O1B-C4'
14	bc	103	0V9	C11-C12-C13-C14
14	bk	1003	0V9	C11-C12-C13-C14
13	AQ	104	V7N	C27-C28-C29-C39
13	aj	103	V7N	C27-C28-C29-C39
12	bl	102	LMT	C5'-C4'-O1B-C1B
18	H1	1001	CD4	C29-C30-C31-O10
14	bb	102	0V9	C11-C12-C13-C14
12	BC	103	LMT	C4'-C5'-C6'-O6'
20	L	302	MQ8	C22-C23-C25-C26
11	ak	101	BCL	C3-C5-C6-C7
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
12	AH	105	LMT	C4'-C5'-C6'-O6'
18	ae	102	CD4	C15-C16-O3-C17
12	AA	1003	LMT	C2'-C1'-O1'-C1
12	AG	103	LMT	C2'-C1'-O1'-C1
12	BA	102	LMT	C2'-C1'-O1'-C1
12	BF	104	LMT	C2'-C1'-O1'-C1
12	bd	102	LMT	C2'-C1'-O1'-C1
12	bn	103	LMT	C2'-C1'-O1'-C1
14	bl	103	0V9	C10-C11-C12-C13
12	BN	1003	LMT	O5'-C5'-C6'-O6'
12	BK	1002	LMT	O5B-C1B-O1B-C4'
13	AH	104	V7N	C38-C26-C27-C28
13	AQ	104	V7N	C3-C4-C5-C33
13	BE	101	V7N	C38-C26-C27-C28
13	BH	1001	V7N	C3-C4-C5-C33
13	BJ	1001	V7N	C38-C26-C27-C28
13	BK	1001	V7N	C38-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
13	BL	1001	V7N	C38-C26-C27-C28
13	BO	1001	V7N	C38-C26-C27-C28
13	BW	1001	V7N	C38-C26-C27-C28
13	BW	1001	V7N	C3-C4-C5-C33
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	bd	101	V7N	C38-C26-C27-C28
13	bl	101	V7N	C38-C26-C27-C28
13	bm	101	V7N	C38-C26-C27-C28
13	bn	101	V7N	C3-C4-C5-C33
13	bo	102	V7N	C38-C26-C27-C28
13	bp	101	V7N	C38-C26-C27-C28
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	bd	101	V7N	C25-C26-C27-C28
13	be	102	V7N	C25-C26-C27-C28
13	bl	101	V7N	C25-C26-C27-C28
13	bn	101	V7N	C25-C26-C27-C28
13	bp	101	V7N	C25-C26-C27-C28
12	BJ	1002	LMT	O5'-C5'-C6'-O6'
12	bg	1001	LMT	O5'-C5'-C6'-O6'
12	BG	1002	LMT	O5'-C5'-C6'-O6'
14	bk	1003	OV9	O2-C2-C3-O3
24	ag	103	V7B	O7-C8-C9-O8
12	BT	1003	LMT	O5B-C1B-O1B-C4'
12	BM	1003	LMT	C4'-C5'-C6'-O6'
12	bf	102	LMT	C5'-C4'-O1B-C1B
11	AS	101	BCL	C10-C11-C12-C13
12	AI	102	LMT	O5'-C5'-C6'-O6'
12	BX	102	LMT	O5'-C5'-C6'-O6'
11	BT	1002	BCL	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
12	BA	105	LMT	C5'-C4'-O1B-C1B
12	BI	101	LMT	O5B-C1B-O1B-C4'
12	BL	1004	LMT	C5'-C4'-O1B-C1B
12	AT	104	LMT	O5'-C5'-C6'-O6'
12	AR	103	LMT	O5'-C5'-C6'-O6'
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	AE	106	LMT	C4'-C5'-C6'-O6'
12	BA	104	LMT	C4'-C5'-C6'-O6'
14	AJ	104	0V9	C11-C12-C13-C14
12	BI	103	LMT	O5B-C1B-O1B-C4'
12	AK	101	LMT	O5'-C5'-C6'-O6'
12	bo	103	LMT	O5'-C5'-C6'-O6'
11	BH	1004	BCL	C13-C15-C16-C17
11	ak	101	BCL	C10-C11-C12-C13
14	bi	105	0V9	C2-C1-O3P-P
12	BB	103	LMT	O5'-C5'-C6'-O6'
12	BF	103	LMT	O5'-C5'-C6'-O6'
13	ba	102	V7N	C26-C27-C28-C29
11	bj	104	BCL	C13-C15-C16-C17
12	BO	1004	LMT	O5'-C5'-C6'-O6'
18	ae	102	CD4	C17-C18-C19-C20
18	ae	102	CD4	C46-C47-C48-C49
12	BP	1005	LMT	O5'-C1'-O1'-C1
12	BQ	1003	LMT	O5'-C1'-O1'-C1
24	ag	103	V7B	O6-C1-O1-C7
12	BL	1003	LMT	O5'-C5'-C6'-O6'
12	AP	103	LMT	C4'-C5'-C6'-O6'
12	BS	1003	LMT	O5B-C1B-O1B-C4'
11	AM	102	BCL	C10-C11-C12-C13
11	bk	1002	BCL	C15-C16-C17-C18
12	BR	104	LMT	O1'-C1-C2-C3
12	AJ	103	LMT	O5'-C5'-C6'-O6'
12	bc	102	LMT	C4B-C5B-C6B-O6B
11	bi	106	BCL	C10-C11-C12-C13
12	AS	103	LMT	O5B-C1B-O1B-C4'
12	BE	104	LMT	C5'-C4'-O1B-C1B
12	M	408	LMT	O5'-C5'-C6'-O6'
11	AJ	101	BCL	C13-C15-C16-C17
14	bi	103	0V9	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
11	BD	103	BCL	C2A-CAA-CBA-CGA
14	bm	104	0V9	C11-C12-C13-C14
11	AN	103	BCL	C5-C6-C7-C8
11	BA	103	BCL	C5-C6-C7-C8
11	BJ	1004	BCL	C10-C11-C12-C13
11	aj	102	BCL	C10-C11-C12-C13
11	bb	103	BCL	C8-C10-C11-C12
12	BC	104	LMT	O5'-C5'-C6'-O6'
11	AF	102	BCL	C15-C16-C17-C18
11	AH	102	BCL	C13-C15-C16-C17
11	AP	101	BCL	C8-C10-C11-C12
11	ab	101	BCL	C8-C10-C11-C12
11	be	105	BCL	C8-C10-C11-C12
12	AP	103	LMT	C1-C2-C3-C4
12	bk	1001	LMT	O5'-C5'-C6'-O6'
12	AD	103	LMT	O5B-C1B-O1B-C4'
12	BD	105	LMT	O5B-C1B-O1B-C4'
12	BQ	1003	LMT	C4'-C5'-C6'-O6'
11	AC	1001	BCL	C10-C11-C12-C13
11	AJ	102	BCL	C10-C11-C12-C13
11	ai	101	BCL	C15-C16-C17-C18
11	be	105	BCL	C15-C16-C17-C18
12	AG	103	LMT	O5B-C1B-O1B-C4'
12	BS	1002	LMT	O5B-C1B-O1B-C4'
11	AW	101	BCL	C13-C15-C16-C17
11	BD	103	BCL	C5-C6-C7-C8
11	BG	1003	BCL	C15-C16-C17-C18
11	aj	102	BCL	C3-C5-C6-C7
12	BS	1005	LMT	O5'-C5'-C6'-O6'
12	AH	103	LMT	C2'-C1'-O1'-C1
12	AK	101	LMT	C2'-C1'-O1'-C1
12	BG	1002	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
12	BT	1003	LMT	C2'-C1'-O1'-C1
12	BU	1004	LMT	C2'-C1'-O1'-C1
24	ag	103	V7B	C2-C1-O1-C7
11	ae	101	BCL	C13-C15-C16-C17
12	AR	103	LMT	C4B-C5B-C6B-O6B
11	BL	1005	BCL	C3-C5-C6-C7
11	AM	101	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
13	AB	101	V7N	C38-C26-C27-C28
13	AH	104	V7N	C3-C4-C5-C33
13	AW	104	V7N	C38-C26-C27-C28
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	BN	1001	V7N	C38-C26-C27-C28
13	BP	1001	V7N	C38-C26-C27-C28
13	BQ	1001	V7N	C38-C26-C27-C28
13	BQ	1001	V7N	C3-C4-C5-C33
13	BV	1001	V7N	C38-C26-C27-C28
13	ba	102	V7N	C3-C4-C5-C33
13	be	102	V7N	C38-C26-C27-C28
13	bh	101	V7N	C38-C26-C27-C28
13	bi	102	V7N	C38-C26-C27-C28
13	bj	101	V7N	C3-C4-C5-C33
14	be	104	0V9	C2-C1-O3P-P
23	M	405	CRT	C34-C33-C35-C36
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
13	bm	101	V7N	C25-C26-C27-C28
23	M	405	CRT	C32-C33-C35-C36
11	BL	1005	BCL	C2A-CAA-CBA-CGA
11	BV	1002	BCL	C2A-CAA-CBA-CGA
18	M	402	CD4	C16-C15-O2-C14
11	AR	102	BCL	C3-C5-C6-C7
12	BK	1004	LMT	O5B-C5B-C6B-O6B
12	bi	104	LMT	C1-C2-C3-C4
12	AH	103	LMT	O5 <sup>1</sup> -C1 <sup>1</sup> -O1 <sup>1</sup> -C1
12	BM	1005	LMT	O5 <sup>1</sup> -C1 <sup>1</sup> -O1 <sup>1</sup> -C1
12	ba	101	LMT	O5 <sup>1</sup> -C1 <sup>1</sup> -O1 <sup>1</sup> -C1
24	af	101	V7B	C46-C47-C48-O53
12	AI	102	LMT	O5B-C5B-C6B-O6B
12	bc	102	LMT	O5B-C5B-C6B-O6B
18	ae	102	CD4	O16-C33-C34-O14
11	ai	101	BCL	C5-C6-C7-C8
12	L	305	LMT	O5 <sup>1</sup> -C5 <sup>1</sup> -C6 <sup>1</sup> -O6 <sup>1</sup>

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Mol	Chain	Res	Type	Atoms
12	BE	104	LMT	C3'-C4'-O1B-C1B
12	bl	102	LMT	C3'-C4'-O1B-C1B
11	AJ	101	BCL	C2-C1-O2A-CGA
11	BJ	1004	BCL	C2-C1-O2A-CGA
11	bl	104	BCL	C2-C1-O2A-CGA
11	BB	105	BCL	C16-C17-C18-C19
12	BR	103	LMT	O5'-C5'-C6'-O6'
12	L	301	LMT	O5'-C5'-C6'-O6'
12	BS	1004	LMT	O5B-C1B-O1B-C4'
12	BS	1003	LMT	C3-C4-C5-C6
12	AA	1003	LMT	C5-C6-C7-C8
11	AU	102	BCL	C10-C11-C12-C13
11	bk	1002	BCL	C5-C6-C7-C8
12	AH	103	LMT	C2-C1-O1'-C1'
12	AK	104	LMT	C2-C1-O1'-C1'
12	AL	104	LMT	C2-C1-O1'-C1'
12	BN	1005	LMT	C2-C1-O1'-C1'
12	bd	102	LMT	C2-C1-O1'-C1'
18	ae	102	CD4	C41-C42-C43-C44
14	bk	1003	0V9	C2-C3-O3-C30
12	AG	103	LMT	C6-C7-C8-C9
11	AG	102	BCL	C13-C15-C16-C17
11	AP	101	BCL	C13-C15-C16-C17
11	bg	1002	BCL	C13-C15-C16-C17
25	ai	102	UYH	C11-C10-O7-C8
11	AJ	102	BCL	C11-C10-C8-C7
12	BR	103	LMT	C4-C5-C6-C7
18	ag	101	CD4	C7-C8-C9-C10
12	BL	1004	LMT	C3'-C4'-O1B-C1B
11	ah	1001	BCL	C8-C10-C11-C12
11	BS	1006	BCL	O1A-CGA-O2A-C1
11	bm	103	BCL	C3-C5-C6-C7
12	BE	102	LMT	O5B-C1B-O1B-C4'
11	AF	101	BCL	C3A-C2A-CAA-CBA
11	AN	105	BCL	C3A-C2A-CAA-CBA
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
12	BG	1002	LMT	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
12	BV	1004	LMT	O1'-C1-C2-C3
18	ad	101	CD4	C3-C4-C5-C6
11	BC	105	BCL	C10-C11-C12-C13
11	BB	105	BCL	C16-C17-C18-C20
12	L	301	LMT	C7-C8-C9-C10
12	BX	101	LMT	C4'-C5'-C6'-O6'
12	BJ	1002	LMT	C3-C4-C5-C6
12	BD	101	LMT	O5'-C5'-C6'-O6'
12	be	101	LMT	O5'-C5'-C6'-O6'
12	BA	101	LMT	C3-C4-C5-C6
12	bf	102	LMT	C6-C7-C8-C9
12	BG	1004	LMT	C1-C2-C3-C4
12	BA	105	LMT	C3'-C4'-O1B-C1B
12	BE	104	LMT	C2-C3-C4-C5
14	L	310	0V9	C10-C11-C12-C13
11	AD	101	BCL	C13-C15-C16-C17
18	H1	1001	CD4	C37-C38-C39-C40
12	BT	1004	LMT	C4'-C5'-C6'-O6'
18	ae	102	CD4	C38-C39-C40-C41
13	bn	101	V7N	C26-C27-C28-C29
11	bh	102	BCL	C13-C15-C16-C17
12	be	101	LMT	O5B-C5B-C6B-O6B
12	bf	102	LMT	C3'-C4'-O1B-C1B
12	BK	1004	LMT	C4'-C5'-C6'-O6'
12	AH	105	LMT	O5'-C1'-O1'-C1
12	AQ	103	LMT	O5'-C1'-O1'-C1
12	BH	1003	LMT	O5'-C1'-O1'-C1
12	BM	1003	LMT	O5'-C5'-C6'-O6'
12	BX	102	LMT	O5B-C1B-O1B-C4'
12	AT	102	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
18	H1	1001	CD4	C25-C26-C27-C60
12	bi	104	LMT	C5-C6-C7-C8
11	BU	1001	BCL	C5-C6-C7-C8
14	bf	104	0V9	C11-C10-O2-C2
18	M	409	CD4	C11-C12-C13-C14
12	BR	103	LMT	C3-C4-C5-C6
11	BK	1005	BCL	C8-C10-C11-C12
25	ai	102	UYH	O9-C10-O7-C8
12	BH	1002	LMT	O1'-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
13	AE	105	V7N	C3-C4-C5-C33
13	BE	101	V7N	C3-C4-C5-C33
13	BO	1001	V7N	C3-C4-C5-C33
12	AN	101	LMT	O5'-C5'-C6'-O6'
13	bo	102	V7N	C25-C26-C27-C28
12	bc	102	LMT	C6-C7-C8-C9
11	AX	101	BCL	C2A-CAA-CBA-CGA
11	BO	1005	BCL	C2A-CAA-CBA-CGA
11	bi	106	BCL	C16-C17-C18-C19
11	bi	106	BCL	C16-C17-C18-C20
12	L	308	LMT	O5B-C5B-C6B-O6B
11	AR	101	BCL	C2-C3-C5-C6
12	BL	1002	LMT	O5B-C1B-O1B-C4'
12	BP	1003	LMT	O5B-C1B-O1B-C4'
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	bk	1001	LMT	C7-C8-C9-C10
12	BW	1004	LMT	O5'-C5'-C6'-O6'
18	M	409	CD4	C35-C36-C37-C38
12	AR	103	LMT	O5B-C5B-C6B-O6B
12	AV	103	LMT	O5B-C5B-C6B-O6B
12	BO	1002	LMT	O5B-C5B-C6B-O6B
12	AV	103	LMT	C1-C2-C3-C4
13	AH	104	V7N	C22-C23-C24-C25
12	bf	102	LMT	O5B-C1B-O1B-C4'
12	BK	1003	LMT	O5'-C5'-C6'-O6'
12	AK	104	LMT	C11-C10-C9-C8
18	H1	1001	CD4	C46-C47-C48-C49
11	AQ	102	BCL	C13-C15-C16-C17
12	bf	102	LMT	O5B-C5B-C6B-O6B
14	AJ	104	0V9	O2-C2-C3-O3
14	bf	104	0V9	O2-C2-C3-O3
19	H1	1003	PGW	C10-C06-C07-C08
12	AT	102	LMT	C5'-C4'-O1B-C1B
12	AM	103	LMT	O5B-C5B-C6B-O6B
14	bl	103	0V9	C16-C17-C18-C19
12	AG	103	LMT	C4-C5-C6-C7
12	BS	1005	LMT	C7-C8-C9-C10
11	AK	103	BCL	C2-C1-O2A-CGA
21	M	404	BPH	C13-C15-C16-C17
14	H1	1002	0V9	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
11	bd	103	BCL	C2A-CAA-CBA-CGA
11	bk	1002	BCL	C2A-CAA-CBA-CGA
11	AS	101	BCL	C8-C10-C11-C12
12	bp	102	LMT	O1'-C1-C2-C3
11	BB	105	BCL	C3-C5-C6-C7
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
12	BD	104	LMT	O5'-C5'-C6'-O6'
14	bp	103	0V9	C10-C11-C12-C13
18	ag	101	CD4	C47-C48-C49-C50
18	ad	101	CD4	C11-C10-C9-C8
25	ai	102	UYH	C33-C34-C35-C36
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	AP	103	LMT	O5B-C5B-C6B-O6B
12	bb	105	LMT	O5'-C5'-C6'-O6'
14	bf	104	0V9	O4-C10-O2-C2
12	BL	1003	LMT	C7-C8-C9-C10
12	BT	1005	LMT	O1'-C1-C2-C3
11	aa	1001	BCL	C3-C5-C6-C7
11	AK	103	BCL	C6-C7-C8-C10
11	AL	102	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	bf	103	BCL	C12-C13-C15-C16
11	bp	104	BCL	C11-C10-C8-C7
11	bf	103	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
12	BJ	1003	LMT	O5'-C5'-C6'-O6'
13	bb	101	V7N	C31-C1-C2-C3
11	AL	103	BCL	C4-C3-C5-C6
11	AU	101	BCL	C4-C3-C5-C6
11	ak	101	BCL	C4-C3-C5-C6
11	ak	101	BCL	C2-C3-C5-C6
20	ao	101	MQ8	C27-C28-C30-C31
12	AL	101	LMT	O5B-C5B-C6B-O6B
12	BI	104	LMT	O5'-C5'-C6'-O6'
11	BP	1002	BCL	C2A-CAA-CBA-CGA
11	AJ	102	BCL	C11-C10-C8-C9
11	AL	102	BCL	C11-C10-C8-C9
11	AX	101	BCL	C11-C10-C8-C9
11	BK	1005	BCL	C11-C10-C8-C9
11	BN	1004	BCL	C11-C10-C8-C9
11	BP	1002	BCL	C6-C7-C8-C9
11	ah	1001	BCL	C11-C12-C13-C14
11	ao	102	BCL	C14-C13-C15-C16
11	bg	1002	BCL	C6-C7-C8-C9
11	bh	102	BCL	C6-C7-C8-C9
12	AT	104	LMT	O5B-C5B-C6B-O6B
12	BT	1004	LMT	O1'-C1-C2-C3
12	AD	103	LMT	O5'-C5'-C6'-O6'
12	AM	103	LMT	O5'-C5'-C6'-O6'
12	BT	1005	LMT	O5'-C5'-C6'-O6'
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	AL	101	LMT	O5B-C1B-O1B-C4'
12	BV	1005	LMT	O5'-C5'-C6'-O6'
12	ba	101	LMT	O5'-C5'-C6'-O6'
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	BC	104	LMT	O5B-C5B-C6B-O6B
14	be	104	0V9	C15-C16-C17-C18
11	AN	102	BCL	C13-C15-C16-C17
11	bn	104	BCL	C5-C6-C7-C8
12	ac	1001	LMT	C4'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
12	bf	102	LMT	C11-C10-C9-C8
12	bg	1001	LMT	C5-C6-C7-C8
18	H1	1001	CD4	C49-C50-C51-C52
12	BD	101	LMT	O5B-C1B-O1B-C4'
12	BP	1005	LMT	O5'-C5'-C6'-O6'
12	bi	101	LMT	O5'-C5'-C6'-O6'
12	AS	103	LMT	C4-C5-C6-C7
12	AA	1003	LMT	O5'-C5'-C6'-O6'
12	BL	1006	LMT	O1'-C1-C2-C3
11	AE	102	BCL	C3-C5-C6-C7
12	bp	102	LMT	O5B-C5B-C6B-O6B
11	AU	101	BCL	C2-C3-C5-C6
11	BK	1005	BCL	C15-C16-C17-C18
11	af	102	BCL	C13-C15-C16-C17
11	bm	103	BCL	C10-C11-C12-C13
12	bo	101	LMT	O5B-C5B-C6B-O6B
13	AT	103	V7N	C38-C26-C27-C28
13	BP	1001	V7N	C3-C4-C5-C33
13	bb	101	V7N	C38-C26-C27-C28
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	BH	1003	LMT	O5B-C1B-O1B-C4'
12	bj	102	LMT	O5'-C5'-C6'-O6'
13	bb	101	V7N	C25-C26-C27-C28
11	BA	103	BCL	C10-C11-C12-C13
11	bp	104	BCL	C13-C15-C16-C17
12	AS	103	LMT	O5'-C5'-C6'-O6'
11	af	102	BCL	C8-C10-C11-C12
18	ag	101	CD4	C41-C42-C43-C44
11	BH	1004	BCL	O2A-C1-C2-C3
11	BN	1004	BCL	O2A-C1-C2-C3
11	bd	103	BCL	O2A-C1-C2-C3
18	ad	101	CD4	C28-C15-O2-C14
13	AT	103	V7N	C26-C27-C28-C29
13	BK	1001	V7N	C26-C27-C28-C29
11	AL	102	BCL	C13-C15-C16-C17
11	BS	1006	BCL	C10-C11-C12-C13
11	BW	1002	BCL	C5-C6-C7-C8
13	bf	101	V7N	C27-C28-C29-C39
14	bb	102	0V9	C40-C41-C42-C43
12	BN	1002	LMT	C4'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
12	BF	101	LMT	O5B-C1B-O1B-C4'
14	bc	103	0V9	O3P-C1-C2-O2
14	bi	105	0V9	O3P-C1-C2-O2
18	ag	101	CD4	O2-C15-C28-O5
12	bg	1001	LMT	C9-C10-C11-C12
12	BI	104	LMT	C5-C6-C7-C8
11	ap	1001	BCL	C4-C3-C5-C6
11	AF	101	BCL	C2-C3-C5-C6
11	AL	103	BCL	C2-C3-C5-C6
11	BV	1002	BCL	C2-C3-C5-C6
12	AH	103	LMT	O5'-C5'-C6'-O6'
12	AS	103	LMT	C11-C10-C9-C8
12	AL	104	LMT	C7-C8-C9-C10
18	ae	102	CD4	C52-C53-C54-C55
18	H1	1001	CD4	O2-C15-C16-O3
12	BJ	1002	LMT	C2-C3-C4-C5
12	bd	102	LMT	C11-C10-C9-C8
24	af	101	V7B	C35-C36-C37-C38
12	BC	104	LMT	O1'-C1-C2-C3
12	AD	103	LMT	C4-C5-C6-C7
12	L	306	LMT	C3-C4-C5-C6
12	BR	101	LMT	O5B-C1B-O1B-C4'
14	be	104	0V9	C2-C3-O3-C30
14	bi	103	0V9	C38-C39-C40-C41
11	AL	103	BCL	C15-C16-C17-C18
11	AR	101	BCL	C4-C3-C5-C6
11	ap	1001	BCL	C2-C3-C5-C6
11	bl	104	BCL	C2-C3-C5-C6
11	AV	104	BCL	CBA-CGA-O2A-C1
11	BS	1006	BCL	CBA-CGA-O2A-C1
11	BI	102	BCL	C5-C6-C7-C8
12	AB	104	LMT	C2-C1-O1'-C1'
12	AQ	103	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	1003	LMT	C2-C1-O1'-C1'

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Mol	Chain	Res	Type	Atoms
12	BK	1004	LMT	C2-C1-O1'-C1'
12	BL	1002	LMT	C2-C1-O1'-C1'
12	BL	1003	LMT	C2-C1-O1'-C1'
12	BN	1003	LMT	C2-C1-O1'-C1'
12	BP	1003	LMT	C2-C1-O1'-C1'
12	BP	1005	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	bc	102	LMT	C2-C1-O1'-C1'
12	bj	102	LMT	C2-C1-O1'-C1'
11	AK	103	BCL	C6-C7-C8-C9
11	AR	101	BCL	C14-C13-C15-C16
11	BQ	1002	BCL	C11-C10-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	bm	103	BCL	C11-C12-C13-C14
14	bk	1003	OV9	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
12	H2	201	LMT	C5-C6-C7-C8
12	BB	104	LMT	O1'-C1-C2-C3
11	AV	102	BCL	C13-C15-C16-C17
18	ag	101	CD4	C15-C16-O3-C17
12	BG	1002	LMT	C4'-C5'-C6'-O6'
12	AL	101	LMT	C2B-C1B-O1B-C4'
12	AL	104	LMT	C9-C10-C11-C12
12	AK	104	LMT	O5B-C5B-C6B-O6B
12	ba	101	LMT	C2'-C1'-O1'-C1
11	bj	104	BCL	C5-C6-C7-C8
14	AJ	104	OV9	O3P-C1-C2-C3
14	bm	104	OV9	O3P-C1-C2-C3
12	BN	1002	LMT	C3-C4-C5-C6
12	be	103	LMT	C7-C8-C9-C10
12	bc	102	LMT	C9-C10-C11-C12
11	AG	102	BCL	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
11	AP	102	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	am	1001	BCL	C6-C7-C8-C10
11	ao	102	BCL	C12-C13-C15-C16
11	bd	103	BCL	C11-C10-C8-C7
11	bg	1002	BCL	C6-C7-C8-C10
11	bh	102	BCL	C11-C10-C8-C7
11	ao	102	BCL	C8-C10-C11-C12
12	ba	101	LMT	O5B-C1B-O1B-C4'
12	BD	101	LMT	C5'-C4'-O1B-C1B
14	bo	104	0V9	C10-C11-C12-C13
13	AT	103	V7N	O42-C34-C9-C8
13	bc	101	V7N	O42-C34-C9-C8
12	AR	103	LMT	C2B-C1B-O1B-C4'
12	BL	1006	LMT	O5B-C1B-O1B-C4'
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	BN	1004	BCL	C4-C3-C5-C6
11	BO	1005	BCL	C4-C3-C5-C6
11	BV	1002	BCL	C4-C3-C5-C6
11	bb	103	BCL	C3A-C2A-CAA-CBA
11	bd	103	BCL	C3A-C2A-CAA-CBA
11	bl	104	BCL	C4-C3-C5-C6
20	ao	101	MQ8	C29-C28-C30-C31
20	ao	101	MQ8	C34-C33-C35-C36
11	AX	101	BCL	C5-C6-C7-C8
11	BE	103	BCL	C10-C11-C12-C13
11	bf	103	BCL	C10-C11-C12-C13
12	BJ	1002	LMT	C4-C5-C6-C7
11	BO	1005	BCL	C2-C3-C5-C6
11	ab	101	BCL	C2-C3-C5-C6
20	ao	101	MQ8	C32-C33-C35-C36
12	BW	1004	LMT	O5'-C1'-O1'-C1
11	BB	105	BCL	C5-C6-C7-C8
12	L	307	LMT	C3-C4-C5-C6
13	BL	1001	V7N	C27-C28-C29-C39
13	BQ	1001	V7N	C27-C28-C29-C39
12	L	306	LMT	C1-C2-C3-C4
12	BB	103	LMT	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
11	ac	1002	BCL	C2A-CAA-CBA-CGA
11	bc	104	BCL	C2A-CAA-CBA-CGA
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
18	ag	101	CD4	C28-C15-C16-O3
24	ag	103	V7B	C7-C8-C9-O8
12	BA	104	LMT	O5B-C1B-O1B-C4'
11	AR	102	BCL	C5-C6-C7-C8
11	ba	103	BCL	C5-C6-C7-C8
11	AF	101	BCL	C4-C3-C5-C6
11	AG	102	BCL	C4-C3-C5-C6
11	AI	101	BCL	C4-C3-C5-C6
11	AL	102	BCL	C4-C3-C5-C6
11	ab	101	BCL	C4-C3-C5-C6
11	bd	103	BCL	C4-C3-C5-C6
12	bn	103	LMT	C3-C4-C5-C6
11	BN	1004	BCL	C2-C3-C5-C6
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	AA	1003	LMT	O1'-C1-C2-C3
12	BA	102	LMT	C5'-C4'-O1B-C1B
12	bn	103	LMT	C9-C10-C11-C12
14	bk	1003	0V9	C40-C41-C42-C43
12	BT	1003	LMT	O1'-C1-C2-C3
11	bi	106	BCL	C2A-CAA-CBA-CGA
11	AS	102	BCL	C8-C10-C11-C12
11	bh	102	BCL	C10-C11-C12-C13
14	aj	101	0V9	O2-C2-C3-O3
18	ag	101	CD4	O2-C15-C16-O3
11	AA	1002	BCL	C3-C5-C6-C7
19	H1	1003	PGW	C1-C2-C3-C4
13	BO	1001	V7N	C26-C27-C28-C29
11	AM	102	BCL	C15-C16-C17-C18
11	AG	102	BCL	C2-C3-C5-C6
11	AI	101	BCL	C2-C3-C5-C6
11	bd	103	BCL	C2-C3-C5-C6
12	AN	101	LMT	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
12	AL	104	LMT	C5'-C4'-O1B-C1B
11	AB	105	BCL	C11-C12-C13-C14
11	AV	101	BCL	C6-C7-C8-C9
11	ae	101	BCL	C11-C10-C8-C9
11	bh	102	BCL	C11-C10-C8-C9
14	bb	102	0V9	C31-C32-C33-C34
11	AF	102	BCL	C8-C10-C11-C12
12	AA	1003	LMT	C11-C10-C9-C8
15	C	402	HEC	C3D-CAD-CBD-CGD
12	AT	102	LMT	C3'-C4'-O1B-C1B
12	BE	104	LMT	C2'-C1'-O1'-C1
11	AQ	101	BCL	O1A-CGA-O2A-C1
12	AT	102	LMT	C3-C4-C5-C6
12	BU	1002	LMT	O1'-C1-C2-C3
11	AV	102	BCL	C4C-C3C-CAC-CBC
14	bd	104	0V9	C16-C17-C18-C19
14	bf	104	0V9	C16-C17-C18-C19
14	bp	103	0V9	C16-C17-C18-C19
11	AI	103	BCL	C3-C5-C6-C7
11	AL	103	BCL	CBA-CGA-O2A-C1
11	AQ	101	BCL	CBA-CGA-O2A-C1
11	AL	102	BCL	C2-C3-C5-C6
18	ae	102	CD4	C39-C40-C41-C42
12	AL	101	LMT	C4-C5-C6-C7
12	BP	1003	LMT	O1'-C1-C2-C3
12	BA	105	LMT	O5B-C5B-C6B-O6B
18	M	409	CD4	C51-C52-C53-C54
14	aj	101	0V9	C15-C16-C17-C18
11	aj	102	BCL	C5-C6-C7-C8
14	bl	103	0V9	O3P-C1-C2-C3
18	M	402	CD4	O13-C32-C33-C34
13	AT	103	V7N	C3-C4-C5-C33
13	af	103	V7N	C38-C26-C27-C28
11	AV	101	BCL	C6-C7-C8-C10
11	BE	103	BCL	C6-C7-C8-C10
11	bi	106	BCL	C11-C10-C8-C7
11	BW	1002	BCL	C8-C10-C11-C12
13	AT	103	V7N	C25-C26-C27-C28
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

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Mol	Chain	Res	Type	Atoms
13	af	103	V7N	C25-C26-C27-C28
13	bj	101	V7N	C3-C4-C5-C6
20	L	302	MQ8	C12-C11-C3-C2
24	ag	103	V7B	C8-C7-O1-C1
11	bh	102	BCL	C2A-CAA-CBA-CGA
11	AA	1002	BCL	C4-C3-C5-C6
11	AA	1002	BCL	C2-C3-C5-C6
11	AU	101	BCL	C5-C6-C7-C8
12	bg	1001	LMT	C4'-C5'-C6'-O6'
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	AL	103	BCL	O1A-CGA-O2A-C1
12	AH	105	LMT	C2-C3-C4-C5
12	BT	1003	LMT	C5'-C4'-O1B-C1B
12	AE	104	LMT	C6-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
12	ba	101	LMT	C2B-C1B-O1B-C4'
18	M	409	CD4	C48-C49-C50-C51
12	BB	104	LMT	O5'-C1'-O1'-C1
12	BV	1004	LMT	O5'-C1'-O1'-C1
14	H1	1002	0V9	C1-C2-C3-O3
14	bk	1003	0V9	C1-C2-C3-O3
14	bo	104	0V9	C1-C2-C3-O3
14	bi	103	0V9	C16-C17-C18-C19
11	BE	103	BCL	C5-C6-C7-C8
12	AP	103	LMT	C4-C5-C6-C7
11	AE	102	BCL	C4-C3-C5-C6
20	ao	101	MQ8	C39-C38-C40-C41
13	AB	101	V7N	O42-C34-C9-C10
13	AE	105	V7N	O42-C34-C9-C10
13	AQ	104	V7N	O42-C34-C9-C10
13	AW	104	V7N	O42-C34-C9-C10
13	BC	101	V7N	O42-C34-C9-C10
13	BE	101	V7N	O42-C34-C9-C10
13	BM	1001	V7N	O42-C34-C9-C10
13	BN	1001	V7N	O42-C34-C9-C10

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
13	BO	1001	V7N	O42-C34-C9-C10
13	BP	1001	V7N	O42-C34-C9-C10
13	BQ	1001	V7N	O42-C34-C9-C10
13	BS	1001	V7N	O42-C34-C9-C10
13	BV	1001	V7N	O42-C34-C9-C10
13	BW	1001	V7N	O42-C34-C9-C10
13	aj	103	V7N	O42-C34-C9-C10
13	ba	102	V7N	O42-C34-C9-C10
13	bb	101	V7N	O42-C34-C9-C10
13	bd	101	V7N	O42-C34-C9-C10
13	be	102	V7N	O42-C34-C9-C10
13	bf	101	V7N	O42-C34-C9-C10
13	bh	101	V7N	O42-C34-C9-C10
13	bi	102	V7N	O42-C34-C9-C10
13	bj	101	V7N	O42-C34-C9-C10
13	bl	101	V7N	O42-C34-C9-C10
13	bn	101	V7N	O42-C34-C9-C10
13	bo	102	V7N	O42-C34-C9-C10
13	bp	101	V7N	O42-C34-C9-C10
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
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
20	L	302	MQ8	C12-C11-C3-C4
12	AH	105	LMT	C4B-C5B-C6B-O6B
12	AT	104	LMT	C4'-C5'-C6'-O6'
11	AK	103	BCL	C8-C10-C11-C12
11	bp	104	BCL	C8-C10-C11-C12
24	ag	103	V7B	C18-C19-C20-C21
18	M	409	CD4	O2-C15-C16-O3
25	ai	102	UYH	O1-C7-C8-O7
11	AA	1001	BCL	C13-C15-C16-C17
11	M	406	BCL	C5-C6-C7-C8
11	AP	102	BCL	C6-C7-C8-C9
11	M	406	BCL	C11-C10-C8-C9
11	ai	101	BCL	C11-C12-C13-C14
12	BI	101	LMT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
14	bm	104	0V9	C31-C32-C33-C34
13	bl	101	V7N	O32-C1-C2-C3
13	bo	102	V7N	O32-C1-C2-C3
13	bp	101	V7N	O32-C1-C2-C3
18	M	409	CD4	C9-C10-C11-C12
14	bb	102	0V9	C30-C31-C32-C33
12	L	308	LMT	C2B-C1B-O1B-C4'
11	BE	103	BCL	C2-C1-O2A-CGA
12	bi	104	LMT	O5'-C5'-C6'-O6'
11	AA	1002	BCL	C10-C11-C12-C13
11	AE	102	BCL	C15-C16-C17-C18
11	BI	102	BCL	C15-C16-C17-C18
13	BS	1001	V7N	C23-C24-C25-C26
14	bc	103	0V9	C2-C3-O3-C30
24	af	101	V7B	C8-C9-O8-C28
11	AB	105	BCL	C4-C3-C5-C6
11	bn	104	BCL	C4-C3-C5-C6
14	bn	102	0V9	C30-C31-C32-C33
12	BD	104	LMT	O1'-C1-C2-C3
12	BL	1002	LMT	C2B-C1B-O1B-C4'
11	AP	102	BCL	C8-C10-C11-C12
14	AJ	104	0V9	C14-C15-C16-C17
11	ao	102	BCL	C3-C5-C6-C7
12	BI	103	LMT	C5'-C4'-O1B-C1B
11	AI	103	BCL	C8-C10-C11-C12
12	BM	1002	LMT	C2-C1-O1'-C1'
12	H2	201	LMT	C2-C1-O1'-C1'
14	be	104	0V9	C11-C12-C13-C14
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
12	AJ	103	LMT	O5B-C1B-O1B-C4'
12	L	308	LMT	O5B-C1B-O1B-C4'
12	BB	102	LMT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
12	BW	1003	LMT	O5'-C1'-O1'-C1
12	AE	104	LMT	O5B-C5B-C6B-O6B
12	BH	1005	LMT	O5B-C5B-C6B-O6B
13	AE	105	V7N	C3-C4-C5-C6
13	BE	101	V7N	C3-C4-C5-C6
13	BP	1001	V7N	C3-C4-C5-C6
12	BA	104	LMT	C4-C5-C6-C7
12	bk	1001	LMT	C3-C4-C5-C6
11	AQ	101	BCL	C15-C16-C17-C18
14	bb	104	0V9	C32-C33-C34-C35
12	BD	101	LMT	C3'-C4'-O1B-C1B
11	an	1001	BCL	C2A-CAA-CBA-CGA
11	bl	104	BCL	C2A-CAA-CBA-CGA
12	BE	102	LMT	C1-C2-C3-C4
12	BN	1003	LMT	O1'-C1-C2-C3
11	ba	103	BCL	C10-C11-C12-C13
14	bc	103	0V9	O3P-C1-C2-C3
14	bi	105	0V9	O3P-C1-C2-C3
18	ag	101	CD4	C16-C15-C28-O5
12	bm	102	LMT	C3-C4-C5-C6
11	AH	102	BCL	C11-C12-C13-C15
11	BF	102	BCL	C11-C10-C8-C7
11	BG	1003	BCL	C11-C10-C8-C7
11	BP	1002	BCL	C11-C12-C13-C15
11	aa	1001	BCL	C6-C7-C8-C10
11	ak	101	BCL	C12-C13-C15-C16
11	bb	103	BCL	C11-C12-C13-C15
12	BP	1003	LMT	C2B-C1B-O1B-C4'
12	bf	102	LMT	C2B-C1B-O1B-C4'
12	L	307	LMT	C4-C5-C6-C7
12	bp	102	LMT	C7-C8-C9-C10
23	M	405	CRT	C36-C37-C38-C39
14	bf	104	0V9	C2-C1-O3P-P
12	BC	102	LMT	C4-C5-C6-C7
11	AB	102	BCL	C3A-C2A-CAA-CBA
11	BH	1004	BCL	C3A-C2A-CAA-CBA
11	BN	1004	BCL	C3A-C2A-CAA-CBA
11	BQ	1002	BCL	C3A-C2A-CAA-CBA
12	BD	104	LMT	O5B-C1B-O1B-C4'
14	H1	1002	0V9	O3P-C1-C2-O2
11	BE	103	BCL	C6-C7-C8-C9
11	BP	1002	BCL	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
11	am	1001	BCL	C6-C7-C8-C9
11	bd	103	BCL	C11-C10-C8-C9
13	bj	101	V7N	C27-C28-C29-C39
12	BK	1004	LMT	C9-C10-C11-C12
12	AH	103	LMT	C7-C8-C9-C10
14	AQ	105	0V9	C16-C17-C18-C19
18	H1	1001	CD4	C54-C55-C56-C57
12	BJ	1002	LMT	C4'-C5'-C6'-O6'
14	H1	1002	0V9	O2-C2-C3-O3
18	ae	102	CD4	O2-C15-C16-O3
24	af	101	V7B	O1-C7-C8-O7
24	ag	103	V7B	O1-C7-C8-O7
12	AT	102	LMT	C2-C3-C4-C5
12	BB	103	LMT	C7-C8-C9-C10
12	BM	1002	LMT	O5B-C5B-C6B-O6B
14	aj	101	0V9	C1-C2-C3-O3
14	bc	103	0V9	C1-C2-C3-O3
14	bf	104	0V9	C1-C2-C3-O3
25	ai	102	UYH	O1-C7-C8-C9
11	bh	102	BCL	C15-C16-C17-C18
12	BF	103	LMT	O5B-C1B-O1B-C4'
12	AW	102	LMT	C1-C2-C3-C4
12	BH	1005	LMT	C3-C4-C5-C6
12	BX	102	LMT	C4'-C5'-C6'-O6'
12	AV	103	LMT	C5'-C4'-O1B-C1B
12	AR	103	LMT	O5'-C1'-O1'-C1
12	AN	101	LMT	C4-C5-C6-C7
12	BX	102	LMT	C2B-C1B-O1B-C4'
11	bj	104	BCL	C2A-CAA-CBA-CGA
11	AB	105	BCL	C15-C16-C17-C18
11	ad	102	BCL	C5-C6-C7-C8
12	BU	1003	LMT	C4-C5-C6-C7
11	AF	101	BCL	CAD-CBD-CGD-O1D
13	BB	101	V7N	C27-C28-C29-C39
14	AJ	104	0V9	C1-O3P-P-O2P
14	L	310	0V9	C1-O3P-P-O4P
14	bi	103	0V9	C4-O4P-P-O2P
14	bj	103	0V9	C1-O3P-P-O2P
14	bk	1003	0V9	C1-O3P-P-O2P
14	bk	1003	0V9	C4-O4P-P-O2P
14	bm	104	0V9	C4-O4P-P-O3P
14	bo	104	0V9	C1-O3P-P-O2P

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Mol	Chain	Res	Type	Atoms
14	bp	103	0V9	C4-O4P-P-O2P
14	bp	103	0V9	C4-O4P-P-O3P
18	ae	102	CD4	C31-O10-P2-O12
19	H1	1003	PGW	C04-O12-P-O11
19	H1	1003	PGW	C04-O12-P-O13
12	bo	103	LMT	C2-C3-C4-C5
12	bg	1001	LMT	C7-C8-C9-C10
14	bj	103	0V9	O3-C30-C31-C32
11	AB	105	BCL	C2-C3-C5-C6
11	AE	102	BCL	C2-C3-C5-C6
20	ao	101	MQ8	C37-C38-C40-C41
12	BU	1004	LMT	O1'-C1-C2-C3
12	BE	102	LMT	C2B-C1B-O1B-C4'
13	BK	1001	V7N	C3-C4-C5-C33
14	bd	104	0V9	C2-C1-O3P-P
18	M	409	CD4	C30-C31-O10-P2
18	ad	101	CD4	C30-C31-O10-P2
18	ag	101	CD4	C30-C29-O8-P1
12	BD	105	LMT	C4-C5-C6-C7
11	AN	105	BCL	CAA-CBA-CGA-O2A
12	BH	1003	LMT	C9-C10-C11-C12
12	BA	101	LMT	C6-C7-C8-C9
12	BS	1002	LMT	C4-C5-C6-C7
12	BF	104	LMT	C5'-C4'-O1B-C1B
13	AB	101	V7N	C23-C24-C25-C26
12	AG	103	LMT	O5B-C5B-C6B-O6B
12	AR	103	LMT	O5B-C1B-O1B-C4'
12	BD	101	LMT	C2B-C1B-O1B-C4'
14	bi	105	0V9	C2-C3-O3-C30
14	bk	1003	0V9	C1-C2-O2-C10
18	H1	1001	CD4	C28-C15-O2-C14
18	M	409	CD4	C28-C15-O2-C14
14	be	104	0V9	C31-C32-C33-C34
18	M	402	CD4	C17-C18-C19-C20
12	AN	101	LMT	O5B-C5B-C6B-O6B
12	BN	1003	LMT	O5B-C5B-C6B-O6B
11	am	1001	BCL	C13-C15-C16-C17
11	ao	102	BCL	C10-C11-C12-C13
18	M	409	CD4	C16-C15-C28-O5
12	bp	102	LMT	C5-C6-C7-C8
13	BJ	1001	V7N	C23-C24-C25-C26
11	AC	1001	BCL	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
11	AN	103	BCL	C14-C13-C15-C16
11	ag	102	BCL	C11-C12-C13-C14
11	ai	101	BCL	C14-C13-C15-C16
11	bb	103	BCL	C11-C12-C13-C14
11	bi	106	BCL	C11-C10-C8-C9
11	bn	104	BCL	C14-C13-C15-C16
11	AC	1001	BCL	C11-C10-C8-C7
11	BI	102	BCL	C11-C12-C13-C15
24	ag	103	V7B	C28-C29-C30-C31
12	AT	104	LMT	C4-C5-C6-C7
12	BR	101	LMT	C5'-C4'-O1B-C1B
14	AQ	105	0V9	O3P-C1-C2-O2
12	bo	103	LMT	O5'-C1'-O1'-C1
11	BH	1004	BCL	C2A-CAA-CBA-CGA
11	bg	1002	BCL	C2A-CAA-CBA-CGA
11	AV	104	BCL	O1A-CGA-O2A-C1
12	H2	201	LMT	C6-C7-C8-C9
12	AQ	103	LMT	C2'-C1'-O1'-C1
11	AK	103	BCL	C5-C6-C7-C8
11	BU	1001	BCL	C4-C3-C5-C6
12	AV	103	LMT	O5B-C1B-O1B-C4'
11	AD	101	BCL	C16-C17-C18-C19
11	bc	104	BCL	C5-C6-C7-C8
13	BM	1001	V7N	C23-C24-C25-C26
12	BV	1003	LMT	O1'-C1-C2-C3
14	bn	102	0V9	O2-C2-C3-O3
18	M	402	CD4	O2-C15-C16-O3
12	BM	1002	LMT	O1'-C1-C2-C3
11	BO	1005	BCL	C8-C10-C11-C12
12	BH	1003	LMT	C2B-C1B-O1B-C4'
13	BC	101	V7N	C27-C28-C29-C39
12	BA	102	LMT	C3'-C4'-O1B-C1B
12	bn	103	LMT	O5B-C5B-C6B-O6B
12	BV	1005	LMT	O1'-C1-C2-C3
11	ad	102	BCL	C2-C1-O2A-CGA
11	bh	102	BCL	C2-C1-O2A-CGA
14	bf	104	0V9	C15-C16-C17-C18
11	AV	102	BCL	C5-C6-C7-C8
24	af	101	V7B	O1-C7-C8-C9
18	H1	1001	CD4	C22-C23-C24-C25
14	AJ	104	0V9	O3-C30-C31-C32
13	bl	101	V7N	C3-C4-C5-C33

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Mol	Chain	Res	Type	Atoms
12	BW	1003	LMT	C5'-C4'-O1B-C1B
12	AQ	103	LMT	C7-C8-C9-C10
12	BJ	1003	LMT	C5-C6-C7-C8
12	BS	1002	LMT	C4'-C5'-C6'-O6'
14	bm	104	0V9	C2-C3-O3-C30
12	bo	103	LMT	O1'-C1-C2-C3
11	AW	101	BCL	C8-C10-C11-C12
11	bb	103	BCL	C10-C11-C12-C13
19	H1	1003	PGW	C2-C3-C4-C5
13	AE	105	V7N	C27-C28-C29-C39
12	BF	101	LMT	C2B-C1B-O1B-C4'
12	BF	101	LMT	C4-C5-C6-C7
12	BK	1002	LMT	O5'-C1'-O1'-C1
20	L	302	MQ8	C39-C38-C40-C41
11	AH	102	BCL	C8-C10-C11-C12
12	AL	104	LMT	O1'-C1-C2-C3
14	bc	103	0V9	C36-C37-C38-C39
12	BR	101	LMT	C4-C5-C6-C7
12	AA	1003	LMT	C5'-C4'-O1B-C1B
12	bb	105	LMT	C11-C10-C9-C8
14	bd	104	0V9	C11-C12-C13-C14
12	L	301	LMT	O1'-C1-C2-C3
12	AA	1003	LMT	C2-C1-O1'-C1'
12	AE	104	LMT	C2-C1-O1'-C1'
12	AE	106	LMT	C2-C1-O1'-C1'
12	BL	1006	LMT	C2-C1-O1'-C1'
12	BQ	1003	LMT	C2-C1-O1'-C1'
12	M	408	LMT	C2-C1-O1'-C1'
12	bf	102	LMT	C2-C1-O1'-C1'
12	BF	104	LMT	O5B-C1B-O1B-C4'
11	BF	102	BCL	C11-C10-C8-C9
11	ak	101	BCL	C14-C13-C15-C16
14	bj	103	0V9	C34-C35-C36-C37
18	ad	101	CD4	C33-C32-O13-P2
12	BK	1004	LMT	O5B-C1B-O1B-C4'
11	BL	1005	BCL	C5-C6-C7-C8
12	BS	1003	LMT	C9-C10-C11-C12
12	BT	1005	LMT	C5'-C4'-O1B-C1B
11	BF	102	BCL	C4-C3-C5-C6
11	BG	1003	BCL	C4-C3-C5-C6
11	BX	103	BCL	C4-C3-C5-C6
11	bh	102	BCL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
11	bp	104	BCL	C4-C3-C5-C6
14	AJ	104	0V9	C31-C32-C33-C34
11	BX	103	BCL	C2-C3-C5-C6
12	BM	1005	LMT	C5'-C4'-O1B-C1B
12	bi	104	LMT	C5'-C4'-O1B-C1B
14	aj	101	0V9	C16-C17-C18-C19
18	M	409	CD4	C46-C47-C48-C49
12	BO	1003	LMT	C4-C5-C6-C7
14	be	104	0V9	C33-C34-C35-C36
11	AQ	102	BCL	C8-C10-C11-C12
12	BR	101	LMT	C2B-C1B-O1B-C4'
12	BI	103	LMT	O5'-C5'-C6'-O6'
12	AE	104	LMT	C7-C8-C9-C10
11	AV	104	BCL	C11-C12-C13-C15
11	ap	1001	BCL	C6-C7-C8-C10
11	bb	103	BCL	C6-C7-C8-C10
11	bg	1002	BCL	C11-C12-C13-C15
11	AJ	102	BCL	C8-C10-C11-C12
19	H1	1003	PGW	C4-C5-C6-C7
12	be	103	LMT	O1'-C1-C2-C3
14	bj	103	0V9	C18-C19-C20-C21
14	H1	1002	0V9	C10-C11-C12-C13
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
11	AB	103	BCL	C8-C10-C11-C12
11	bp	104	BCL	C2-C3-C5-C6
20	L	302	MQ8	C37-C38-C40-C41
12	BO	1003	LMT	O5B-C1B-O1B-C4'
19	H1	1003	PGW	C3-C4-C5-C6
12	BL	1004	LMT	O5'-C1'-O1'-C1
12	BV	1003	LMT	C5-C6-C7-C8
12	AN	101	LMT	C5'-C4'-O1B-C1B
12	BU	1003	LMT	O5B-C1B-O1B-C4'
12	BS	1002	LMT	C5'-C4'-O1B-C1B
12	BV	1003	LMT	C5'-C4'-O1B-C1B
11	ak	101	BCL	C8-C10-C11-C12
11	aj	102	BCL	C2-C1-O2A-CGA
13	BB	101	V7N	C9-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
12	BS	1004	LMT	C2B-C1B-O1B-C4'
11	AG	102	BCL	C3-C5-C6-C7
11	bd	103	BCL	C3-C5-C6-C7
12	AK	101	LMT	C4-C5-C6-C7
18	H1	1001	CD4	C33-C32-O13-P2
12	BD	104	LMT	C5'-C4'-O1B-C1B
13	AE	105	V7N	C23-C24-C25-C26
12	BF	103	LMT	C1-C2-C3-C4
11	aj	102	BCL	C4-C3-C5-C6
13	BQ	1001	V7N	C37-C22-C23-C24
11	BU	1001	BCL	C2-C3-C5-C6
11	bn	104	BCL	C2-C3-C5-C6
11	AP	102	BCL	C15-C16-C17-C18
11	L	303	BCL	C15-C16-C17-C18
15	C	402	HEC	CAD-CBD-CGD-O2D
14	bn	102	0V9	C1-C2-C3-O3
12	ac	1001	LMT	O5B-C1B-O1B-C4'
12	BS	1004	LMT	C4-C5-C6-C7
12	BG	1002	LMT	O5B-C5B-C6B-O6B
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	BG	1003	BCL	C6-C7-C8-C9
11	BI	102	BCL	C11-C12-C13-C14
11	BS	1006	BCL	C6-C7-C8-C9
11	BV	1002	BCL	C14-C13-C15-C16
11	BW	1002	BCL	C14-C13-C15-C16
11	ab	101	BCL	C14-C13-C15-C16
11	ad	102	BCL	C11-C12-C13-C14
12	ac	1001	LMT	C2B-C1B-O1B-C4'
12	bb	105	LMT	C7-C8-C9-C10
14	bn	102	0V9	C33-C34-C35-C36
12	AM	103	LMT	C11-C10-C9-C8
12	AJ	103	LMT	C2B-C1B-O1B-C4'
11	BM	1004	BCL	O2A-C1-C2-C3
19	H1	1003	PGW	C03-C02-O01-C1
11	BF	102	BCL	C8-C10-C11-C12
12	BO	1004	LMT	C5-C6-C7-C8
11	BG	1003	BCL	C2-C3-C5-C6
11	bh	102	BCL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
18	H1	1001	CD4	C44-C45-C63-C64
15	C	402	HEC	CAD-CBD-CGD-O1D
11	bm	103	BCL	C2A-CAA-CBA-CGA
11	bd	103	BCL	C13-C15-C16-C17
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	AN	101	LMT	C11-C10-C9-C8
24	ag	103	V7B	C37-C38-C39-C41
12	BA	104	LMT	C2B-C1B-O1B-C4'
14	bo	104	0V9	C31-C32-C33-C34
18	H1	1001	CD4	C17-C18-C19-C20
14	bm	104	0V9	C18-C19-C20-C21
24	ag	103	V7B	C17-C18-C19-C20
12	M	408	LMT	C5-C6-C7-C8
18	M	402	CD4	C9-C10-C11-C12
12	AL	101	LMT	C7-C8-C9-C10
12	BM	1002	LMT	C5'-C4'-O1B-C1B
11	AN	102	BCL	C4-C3-C5-C6
11	bf	103	BCL	C4-C3-C5-C6
13	bh	101	V7N	C37-C22-C23-C24
12	BT	1003	LMT	C3'-C4'-O1B-C1B
12	BJ	1002	LMT	C9-C10-C11-C12
12	BH	1002	LMT	O5B-C1B-O1B-C4'
12	be	101	LMT	C11-C10-C9-C8
12	be	103	LMT	C4-C5-C6-C7
25	ai	102	UYH	C31-C32-C33-C34
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	AV	104	BCL	C11-C10-C8-C7
11	ak	101	BCL	C6-C7-C8-C10
11	ak	101	BCL	C11-C10-C8-C7
11	bh	102	BCL	C12-C13-C15-C16
11	bn	104	BCL	C12-C13-C15-C16
21	M	404	BPH	C11-C10-C8-C7
11	BJ	1004	BCL	C2A-CAA-CBA-CGA
14	bb	102	0V9	C18-C19-C20-C21
12	BF	101	LMT	C5'-C4'-O1B-C1B
12	be	103	LMT	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
12	bk	1001	LMT	C4-C5-C6-C7
18	ae	102	CD4	C25-C26-C27-C60
12	AL	104	LMT	C3'-C4'-O1B-C1B
12	bm	102	LMT	C5-C6-C7-C8
14	H1	1002	0V9	C19-C20-C21-C22
12	AJ	103	LMT	C6-C7-C8-C9
12	BG	1005	LMT	C7-C8-C9-C10
18	M	409	CD4	C43-C44-C45-C63
11	bm	103	BCL	C5-C6-C7-C8
25	ai	102	UYH	C36-C37-C38-C39
11	BJ	1004	BCL	C4-C3-C5-C6
11	ad	102	BCL	C4-C3-C5-C6
11	BF	102	BCL	C2-C3-C5-C6
11	aj	102	BCL	C2-C3-C5-C6
13	BQ	1001	V7N	C21-C22-C23-C24
18	M	402	CD4	C21-C22-C23-C24
19	H1	1003	PGW	C06-C07-C08-C09
11	AF	102	BCL	C10-C11-C12-C13
11	BI	102	BCL	C13-C15-C16-C17
11	BI	102	BCL	C2A-CAA-CBA-CGA
11	BK	1005	BCL	C2A-CAA-CBA-CGA
11	AW	103	BCL	C11-C10-C8-C9
11	BF	102	BCL	C11-C12-C13-C14
11	aa	1001	BCL	C6-C7-C8-C9
11	af	102	BCL	C11-C10-C8-C9
11	am	1001	BCL	C11-C10-C8-C9
11	an	1001	BCL	C11-C10-C8-C9
11	bk	1002	BCL	C11-C10-C8-C9
12	BO	1003	LMT	C5'-C4'-O1B-C1B
12	BX	101	LMT	C4-C5-C6-C7
25	ai	102	UYH	C16-C17-C18-C19
11	M	403	BCL	C13-C15-C16-C17
11	aa	1001	BCL	C5-C6-C7-C8
12	BD	105	LMT	C2B-C1B-O1B-C4'
13	BL	1001	V7N	C23-C24-C25-C26
14	bo	104	0V9	C15-C16-C17-C18
12	bg	1001	LMT	C1-C2-C3-C4
12	BF	103	LMT	C5'-C4'-O1B-C1B
11	AP	102	BCL	C4-C3-C5-C6
11	bo	105	BCL	C4-C3-C5-C6
13	BB	101	V7N	C37-C22-C23-C24
13	bo	102	V7N	C37-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
20	L	302	MQ8	C19-C18-C20-C21
11	BT	1002	BCL	C10-C11-C12-C13
12	BP	1005	LMT	C5'-C4'-O1B-C1B
18	M	409	CD4	C33-C32-O13-P2
14	H1	1002	0V9	C32-C33-C34-C35
13	BB	101	V7N	C21-C22-C23-C24
13	bh	101	V7N	C21-C22-C23-C24
20	L	302	MQ8	C17-C18-C20-C21
11	AK	103	BCL	C13-C15-C16-C17
11	ab	101	BCL	CBA-CGA-O2A-C1
14	bo	104	0V9	C11-C12-C13-C14
11	AP	101	BCL	C15-C16-C17-C18
21	M	404	BPH	C10-C11-C12-C13
12	BI	103	LMT	C3'-C4'-O1B-C1B
13	BO	1001	V7N	C22-C23-C24-C25
20	ao	101	MQ8	C33-C35-C36-C37
15	C	404	HEC	CAD-CBD-CGD-O2D
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
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	C7-C8-C9-C10
12	BX	102	LMT	C5'-C4'-O1B-C1B
11	BQ	1002	BCL	C2A-CAA-CBA-CGA
11	BS	1006	BCL	C2A-CAA-CBA-CGA
14	bc	103	0V9	C18-C19-C20-C21
12	BR	104	LMT	C5'-C4'-O1B-C1B
12	AK	101	LMT	C4'-C5'-C6'-O6'
12	BK	1002	LMT	C2-C1-O1'-C1'
12	AG	103	LMT	C5'-C4'-O1B-C1B
11	AV	104	BCL	C4-C3-C5-C6
11	BD	103	BCL	C4-C3-C5-C6
13	af	103	V7N	C37-C22-C23-C24
24	af	101	V7B	O8-C28-C29-C30
12	BS	1005	LMT	C6-C7-C8-C9
12	bb	105	LMT	C2-C3-C4-C5
12	AN	101	LMT	C6-C7-C8-C9
12	BT	1004	LMT	C4-C5-C6-C7
12	bb	105	LMT	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
12	bj	102	LMT	C7-C8-C9-C10
11	AG	101	BCL	C15-C16-C17-C18
12	AV	103	LMT	C4-C5-C6-C7
18	ag	101	CD4	C6-C7-C8-C9
11	M	403	BCL	CAA-CBA-CGA-O2A
12	BR	103	LMT	C5'-C4'-O1B-C1B
12	BF	104	LMT	C3'-C4'-O1B-C1B
11	AE	102	BCL	C16-C17-C18-C19
14	bi	103	0V9	C22-C23-C24-C25
14	bf	104	0V9	C22-C23-C24-C25
15	C	401	HEC	CAA-CBA-CGA-O2A
11	BW	1002	BCL	C10-C11-C12-C13
21	L	309	BPH	C4-C3-C5-C6
14	AQ	105	0V9	O2-C2-C3-O3
14	be	104	0V9	C10-C11-C12-C13
13	bo	102	V7N	C21-C22-C23-C24
12	BL	1003	LMT	O1'-C1-C2-C3
12	BA	105	LMT	O5'-C1'-O1'-C1
12	BE	102	LMT	C5'-C4'-O1B-C1B
18	H1	1001	CD4	C48-C49-C50-C51
11	AE	103	BCL	C12-C13-C15-C16
11	BV	1002	BCL	C12-C13-C15-C16
11	af	102	BCL	C11-C10-C8-C7
12	BP	1003	LMT	C5'-C4'-O1B-C1B
12	AL	104	LMT	C4B-C5B-C6B-O6B
12	AJ	103	LMT	C5'-C4'-O1B-C1B
12	BN	1002	LMT	C5'-C4'-O1B-C1B
12	BX	101	LMT	C5'-C4'-O1B-C1B
12	AD	103	LMT	C2B-C1B-O1B-C4'
12	BI	101	LMT	C4B-C5B-C6B-O6B
12	bd	102	LMT	C7-C8-C9-C10
13	AT	103	V7N	C3-C4-C5-C6
11	L	304	BCL	C14-C13-C15-C16
11	af	102	BCL	C14-C13-C15-C16
25	ai	102	UYH	C8-C7-O1-C1
14	bk	1003	0V9	C18-C19-C20-C21
11	AG	102	BCL	C2A-CAA-CBA-CGA
11	AE	102	BCL	C16-C17-C18-C20
11	BE	103	BCL	C4-C3-C5-C6
11	BF	102	BCL	C3A-C2A-CAA-CBA
11	BG	1003	BCL	C3A-C2A-CAA-CBA
11	BK	1005	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
11	ag	102	BCL	C4-C3-C5-C6
11	bo	105	BCL	C3A-C2A-CAA-CBA
13	BT	1001	V7N	C37-C22-C23-C24
11	BD	103	BCL	C2-C3-C5-C6
12	BF	103	LMT	C2B-C1B-O1B-C4'
11	al	1001	BCL	C15-C16-C17-C18
11	bj	104	BCL	C10-C11-C12-C13
11	AF	101	BCL	CAA-CBA-CGA-O2A
12	AH	105	LMT	C2'-C1'-O1'-C1
11	BQ	1002	BCL	O2A-C1-C2-C3
11	bc	104	BCL	O2A-C1-C2-C3
14	bn	102	0V9	C1-C2-O2-C10
14	bn	102	0V9	C3-C2-O2-C10
12	BS	1003	LMT	C2B-C1B-O1B-C4'
15	C	401	HEC	CAA-CBA-CGA-O1A
12	BK	1002	LMT	C5'-C4'-O1B-C1B
12	BG	1002	LMT	C6-C7-C8-C9
12	AG	103	LMT	C2B-C1B-O1B-C4'
12	BD	104	LMT	C2B-C1B-O1B-C4'
14	bf	104	0V9	C35-C36-C37-C38
14	H1	1002	0V9	C12-C13-C14-C15
12	AS	103	LMT	C2B-C1B-O1B-C4'
12	AV	103	LMT	C2B-C1B-O1B-C4'
14	AJ	104	0V9	C36-C37-C38-C39
11	AR	101	BCL	C5-C6-C7-C8
14	AJ	104	0V9	C18-C19-C20-C21
14	bn	102	0V9	C18-C19-C20-C21
14	bn	102	0V9	C32-C33-C34-C35
18	M	409	CD4	C29-C30-C31-O10
13	BG	1001	V7N	C23-C24-C25-C26
15	C	404	HEC	CAD-CBD-CGD-O1D
24	ag	103	V7B	O1-C7-C8-C9
14	bb	104	0V9	C31-C32-C33-C34
12	BI	101	LMT	C5'-C4'-O1B-C1B
12	bo	103	LMT	C5'-C4'-O1B-C1B
12	BL	1006	LMT	C4-C5-C6-C7
18	ad	101	CD4	C4-C5-C6-C7
12	bo	103	LMT	C9-C10-C11-C12
11	ap	1001	BCL	C2A-CAA-CBA-CGA
11	AQ	101	BCL	CAA-CBA-CGA-O2A
14	bd	104	0V9	C5-C4-O4P-P
12	BW	1003	LMT	C3'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
12	BJ	1002	LMT	O5B-C5B-C6B-O6B
12	be	103	LMT	O5'-C5'-C6'-O6'
12	bc	102	LMT	C4-C5-C6-C7
12	bo	103	LMT	C1-C2-C3-C4
12	BD	102	LMT	O5B-C5B-C6B-O6B
18	M	409	CD4	O3-C17-C18-C19
14	L	310	0V9	C36-C37-C38-C39
25	ai	102	UYH	C22-C23-C24-C25
11	AJ	101	BCL	C15-C16-C17-C18
11	AR	102	BCL	C11-C12-C13-C14
11	AS	101	BCL	C11-C10-C8-C9
11	AV	104	BCL	C11-C12-C13-C14
11	BG	1003	BCL	C11-C10-C8-C9
12	BD	105	LMT	C5'-C4'-O1B-C1B
11	AV	104	BCL	CAA-CBA-CGA-O2A
14	bd	104	0V9	C35-C36-C37-C38
18	H1	1001	CD4	C16-C15-C28-O5
14	bc	103	0V9	C30-C31-C32-C33
23	M	405	CRT	C36-C37-C38-O2
11	ae	101	BCL	CAA-CBA-CGA-O2A
19	H1	1003	PGW	O01-C1-C2-C3
11	ad	102	BCL	C2-C3-C5-C6
11	BU	1001	BCL	C2A-CAA-CBA-CGA
11	ab	101	BCL	C2A-CAA-CBA-CGA
11	AW	103	BCL	C11-C10-C8-C7
11	BS	1006	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	bk	1002	BCL	C11-C10-C8-C7
12	BK	1002	LMT	O1'-C1-C2-C3
18	ad	101	CD4	C5-C6-C7-C8
11	AR	102	BCL	C10-C11-C12-C13
18	ad	101	CD4	O3-C17-C18-C19
18	H1	1001	CD4	O1-C14-O2-C15
11	bn	104	BCL	C2-C1-O2A-CGA
20	L	302	MQ8	C43-C44-C46-C47
20	ao	101	MQ8	C28-C30-C31-C32
11	AE	102	BCL	CAA-CBA-CGA-O2A
12	L	306	LMT	O5'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
13	BT	1001	V7N	C23-C24-C25-C26
11	ao	102	BCL	C5-C6-C7-C8
11	AD	101	BCL	C4-C3-C5-C6
11	AD	101	BCL	CAA-CBA-CGA-O2A
11	BR	102	BCL	CAA-CBA-CGA-O2A
18	ae	102	CD4	O3-C17-C18-C19
11	ac	1002	BCL	C5-C6-C7-C8
12	BR	103	LMT	C2-C3-C4-C5
14	bb	102	0V9	C2-C3-O3-C30
14	bi	103	0V9	C2-C3-O3-C30
12	BO	1003	LMT	C4'-C5'-C6'-O6'
11	AM	101	BCL	CAA-CBA-CGA-O2A
14	AQ	105	0V9	C20-C21-C22-C23
12	BG	1004	LMT	C9-C10-C11-C12
12	BW	1004	LMT	C5-C6-C7-C8
11	AH	102	BCL	CAA-CBA-CGA-O2A
18	H1	1001	CD4	O3-C17-C18-C19
12	BF	103	LMT	C4'-C5'-C6'-O6'
11	AD	101	BCL	C16-C17-C18-C20
12	BM	1005	LMT	C3'-C4'-O1B-C1B
12	BR	101	LMT	C3'-C4'-O1B-C1B
13	BN	1001	V7N	C37-C22-C23-C24
12	AD	103	LMT	C5'-C4'-O1B-C1B
11	AI	101	BCL	CAA-CBA-CGA-O2A
14	L	310	0V9	O3-C30-C31-C32
11	AS	102	BCL	C5-C6-C7-C8
11	AD	101	BCL	C2-C3-C5-C6
12	bg	1001	LMT	C3-C4-C5-C6
12	AP	103	LMT	C5'-C4'-O1B-C1B
12	BL	1002	LMT	C5'-C4'-O1B-C1B
12	H2	201	LMT	C4B-C5B-C6B-O6B
12	BA	102	LMT	C2-C1-O1'-C1'
12	BT	1003	LMT	C2-C1-O1'-C1'
12	bk	1001	LMT	C2-C1-O1'-C1'
15	C	402	HEC	CAA-CBA-CGA-O1A
12	AK	104	LMT	O5'-C5'-C6'-O6'
11	AS	102	BCL	C6-C7-C8-C9
11	ak	101	BCL	C6-C7-C8-C9
11	bb	103	BCL	C14-C13-C15-C16
11	bh	102	BCL	C14-C13-C15-C16
12	bj	102	LMT	C6-C7-C8-C9
12	BI	101	LMT	C2B-C1B-O1B-C4'

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Mol	Chain	Res	Type	Atoms
21	L	309	BPH	C8-C10-C11-C12
13	af	103	V7N	C3-C4-C5-C33
13	bf	101	V7N	C3-C4-C5-C33
12	bd	102	LMT	O5B-C1B-O1B-C4'
18	ae	102	CD4	O14-C35-C36-C37
14	bj	103	0V9	C35-C36-C37-C38
12	BS	1004	LMT	C5'-C4'-O1B-C1B
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	BQ	1002	BCL	C1A-C2A-CAA-CBA
11	BT	1002	BCL	C1A-C2A-CAA-CBA
11	ae	101	BCL	C1A-C2A-CAA-CBA
12	AB	104	LMT	O5'-C1'-O1'-C1
12	BR	104	LMT	O5'-C1'-O1'-C1
18	ag	101	CD4	O16-C33-C34-O14
13	BH	1001	V7N	C23-C24-C25-C26
12	bk	1001	LMT	C5'-C4'-O1B-C1B
12	bg	1001	LMT	C2-C3-C4-C5
12	BF	104	LMT	C2B-C1B-O1B-C4'
13	BK	1001	V7N	C3-C4-C5-C6
13	af	103	V7N	C3-C4-C5-C6
13	bl	101	V7N	C3-C4-C5-C6
13	bi	102	V7N	C27-C28-C29-C39
14	aj	101	0V9	C20-C21-C22-C23
11	AW	103	BCL	CAA-CBA-CGA-O2A
11	BF	102	BCL	CAA-CBA-CGA-O2A
11	ad	102	BCL	CAA-CBA-CGA-O2A
24	ag	103	V7B	O8-C28-C29-C30
11	AH	102	BCL	C2A-CAA-CBA-CGA
11	BX	103	BCL	C2A-CAA-CBA-CGA
12	BL	1003	LMT	C5-C6-C7-C8
12	BS	1003	LMT	C5'-C4'-O1B-C1B
11	AS	102	BCL	CAA-CBA-CGA-O2A
12	BE	102	LMT	C4-C5-C6-C7
12	AH	103	LMT	C5'-C4'-O1B-C1B
12	BO	1002	LMT	C4'-C5'-C6'-O6'
12	M	408	LMT	C4'-C5'-C6'-O6'
12	bo	103	LMT	C4'-C5'-C6'-O6'
14	bb	102	0V9	C36-C37-C38-C39
11	BB	105	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
11	BP	1002	BCL	C2-C1-O2A-CGA
11	AI	101	BCL	C11-C10-C8-C7
11	AW	103	BCL	C11-C12-C13-C15
11	BX	103	BCL	C11-C10-C8-C7
11	am	1001	BCL	C12-C13-C15-C16
21	M	404	BPH	C8-C10-C11-C12
11	ai	101	BCL	O2A-C1-C2-C3
11	am	1001	BCL	O2A-C1-C2-C3
11	bi	106	BCL	O2A-C1-C2-C3
19	H1	1003	PGW	C01-C02-O01-C1
14	bk	1003	0V9	C36-C37-C38-C39
14	AJ	104	0V9	C2-C3-O3-C30
13	bo	102	V7N	C30-C1-C2-C3
23	M	405	CRT	C36-C37-C38-C40
11	AL	102	BCL	C16-C17-C18-C19
12	BK	1004	LMT	C2B-C1B-O1B-C4'
14	aj	101	0V9	C2-C3-O3-C30
12	BS	1005	LMT	C4'-C5'-C6'-O6'
12	AS	103	LMT	C5'-C4'-O1B-C1B
14	bj	103	0V9	C32-C33-C34-C35
11	AN	105	BCL	C10-C11-C12-C13
11	bj	104	BCL	C15-C16-C17-C18
11	BJ	1004	BCL	C3A-C2A-CAA-CBA
11	AQ	101	BCL	CAA-CBA-CGA-O1A
11	AD	102	BCL	C13-C15-C16-C17
12	BI	103	LMT	O1'-C1-C2-C3
15	C	402	HEC	CAA-CBA-CGA-O2A
18	M	409	CD4	O4-C17-C18-C19
12	AP	103	LMT	C5-C6-C7-C8
14	L	310	0V9	C21-C22-C23-C24
18	ag	101	CD4	C10-C11-C12-C13
12	AI	102	LMT	C4'-C5'-C6'-O6'
12	bk	1001	LMT	C6-C7-C8-C9
14	bn	102	0V9	O2-C10-C11-C12
14	bp	103	0V9	C18-C19-C20-C21
12	bn	103	LMT	C5'-C4'-O1B-C1B
11	BL	1005	BCL	C13-C15-C16-C17
11	BA	103	BCL	C2A-CAA-CBA-CGA
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

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Mol	Chain	Res	Type	Atoms
21	M	404	BPH	C11-C10-C8-C9
12	BR	104	LMT	C6-C7-C8-C9
11	AG	102	BCL	CAA-CBA-CGA-O2A
14	L	310	0V9	O5-C30-C31-C32
14	bi	105	0V9	C13-C14-C15-C16
25	ai	102	UYH	C12-C13-C14-C15
12	BU	1002	LMT	C9-C10-C11-C12
18	M	409	CD4	O9-C30-C31-O10
11	bo	105	BCL	C3-C5-C6-C7
11	BE	103	BCL	C8-C10-C11-C12
11	AI	101	BCL	CAA-CBA-CGA-O1A
20	M	407	MQ8	C37-C38-C40-C41
11	AO	101	BCL	C8-C10-C11-C12
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
14	bl	103	0V9	C31-C30-O3-C3
11	AD	101	BCL	CAA-CBA-CGA-O1A
11	AM	101	BCL	CAA-CBA-CGA-O1A
19	H1	1003	PGW	O02-C1-C2-C3
24	ag	103	V7B	O10-C28-C29-C30
18	M	402	CD4	C19-C20-C21-C22
11	BB	105	BCL	C15-C16-C17-C18
14	bc	103	0V9	O4-C10-O2-C2
12	AV	103	LMT	C3'-C4'-O1B-C1B
11	AH	102	BCL	CAA-CBA-CGA-O1A
11	AV	104	BCL	CAA-CBA-CGA-O1A
11	BR	102	BCL	CAA-CBA-CGA-O1A
11	ae	101	BCL	CAA-CBA-CGA-O1A
18	H1	1001	CD4	O4-C17-C18-C19
11	BN	1004	BCL	C2A-CAA-CBA-CGA
11	aj	102	BCL	C2A-CAA-CBA-CGA
11	bf	103	BCL	C2A-CAA-CBA-CGA
14	L	310	0V9	C20-C21-C22-C23
12	BK	1002	LMT	C2B-C1B-O1B-C4'
12	BO	1003	LMT	C2B-C1B-O1B-C4'
15	C	404	HEC	CAA-CBA-CGA-O2A
11	AE	102	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

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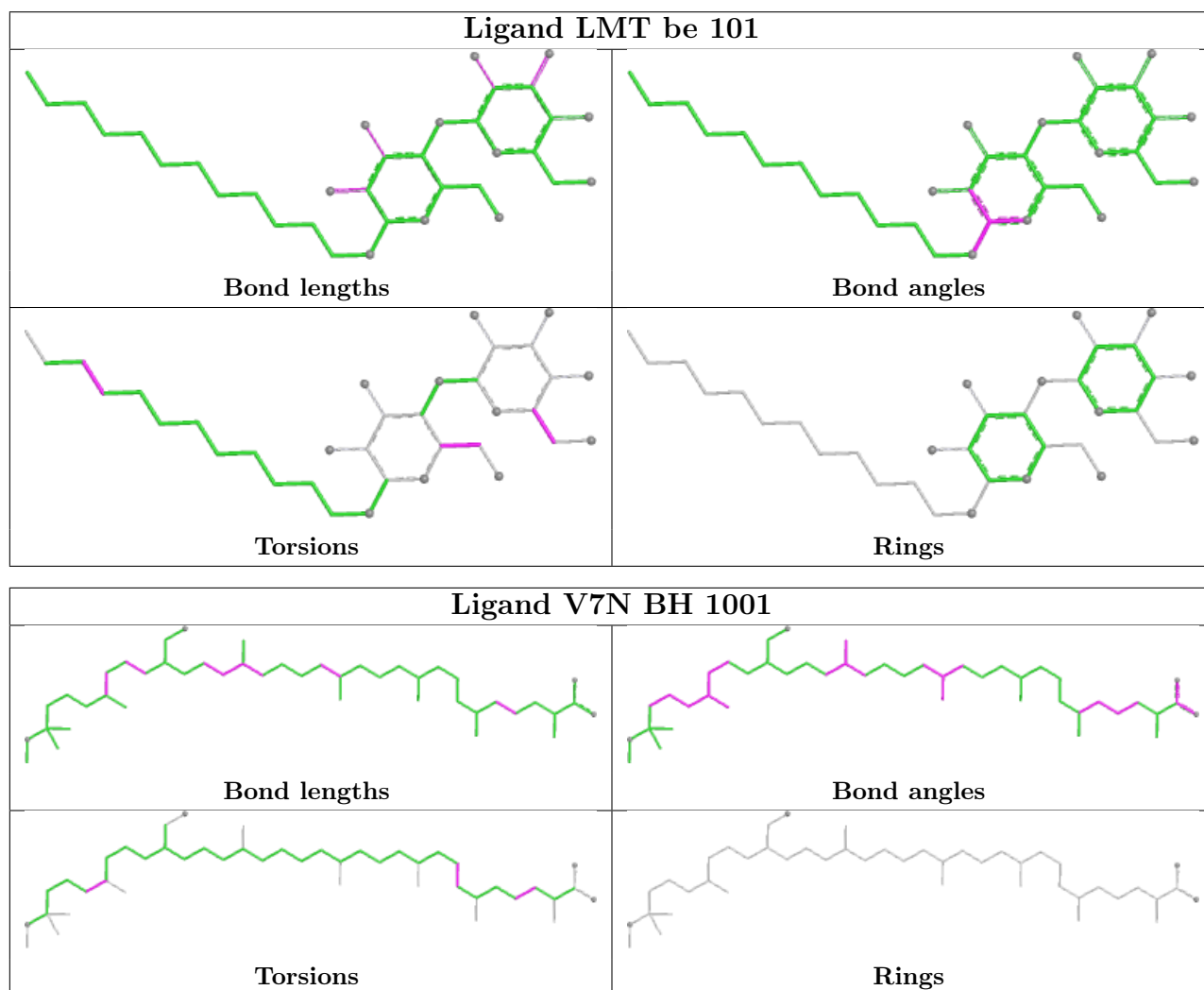
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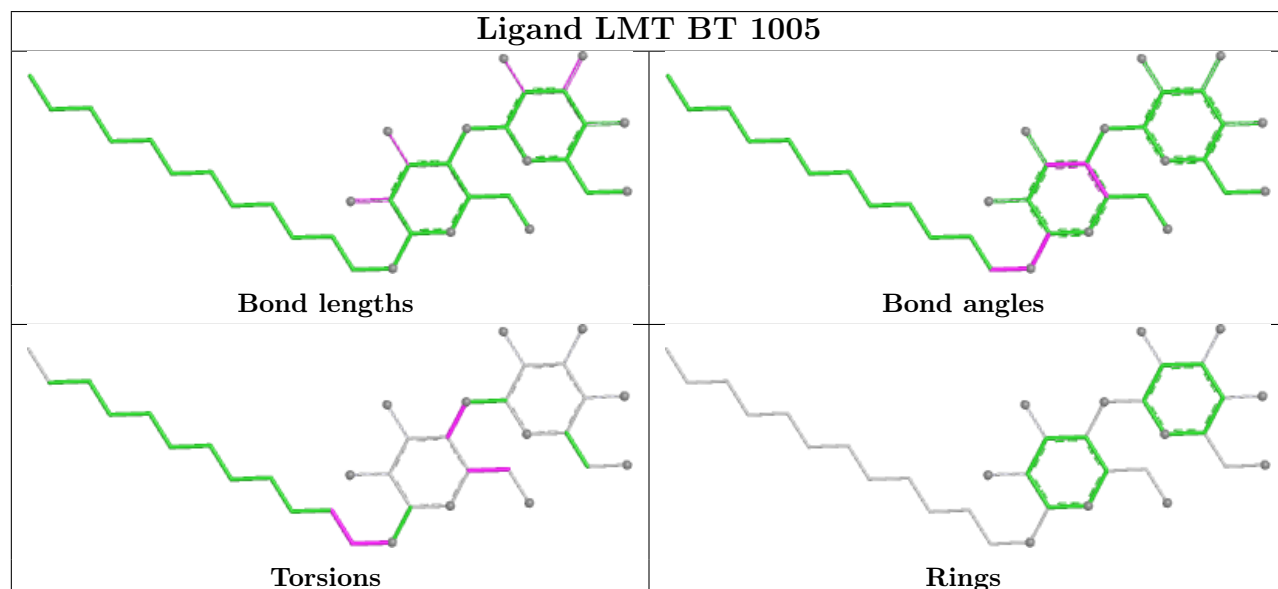
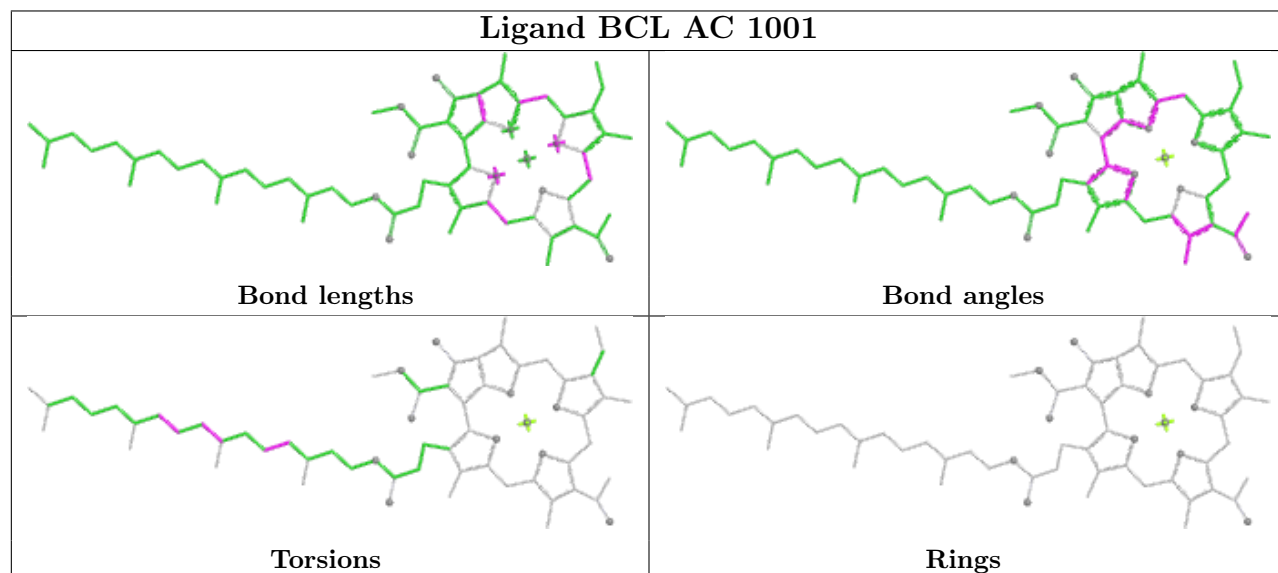
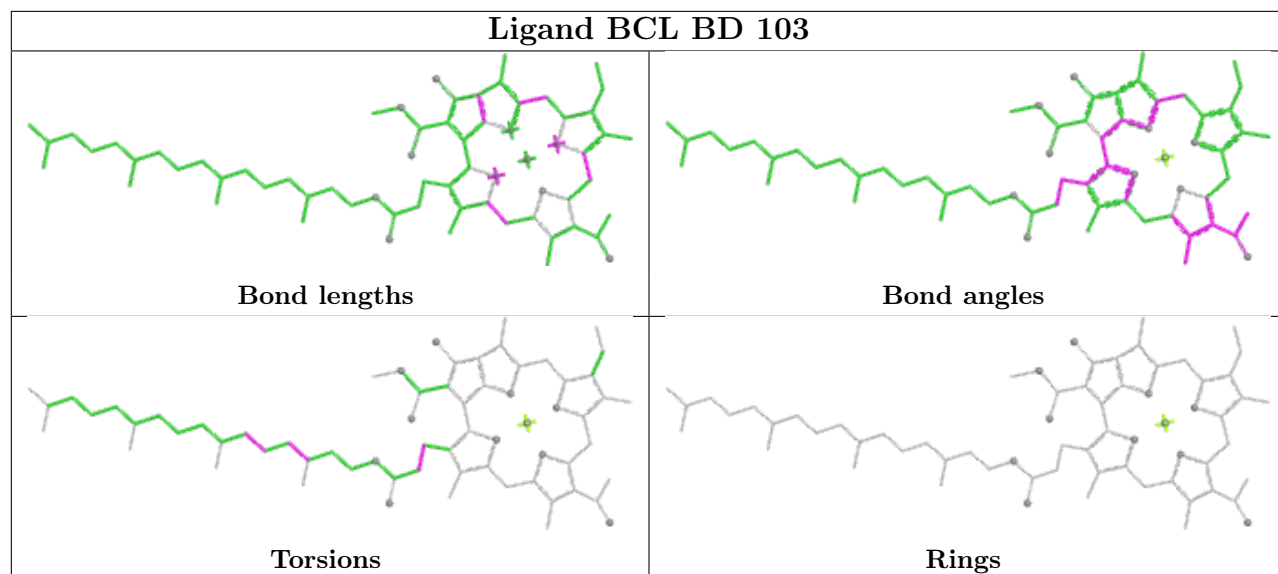
Mol	Chain	Res	Type	Atoms
13	bj	101	V7N	C37-C22-C23-C24
13	bb	101	V7N	C23-C24-C25-C26
13	be	102	V7N	C23-C24-C25-C26
13	bm	101	V7N	C23-C24-C25-C26
20	ao	101	MQ8	C44-C46-C47-C48
12	BA	101	LMT	C2-C3-C4-C5
12	BL	1002	LMT	C4-C5-C6-C7
11	BE	103	BCL	CAA-CBA-CGA-O2A
14	L	310	0V9	O2-C10-C11-C12
13	BK	1001	V7N	C27-C28-C29-C39
11	BF	102	BCL	CAA-CBA-CGA-O1A
12	AK	104	LMT	C6-C7-C8-C9
12	AT	104	LMT	C11-C10-C9-C8
12	AM	103	LMT	C5'-C4'-O1B-C1B
12	AN	101	LMT	C3'-C4'-O1B-C1B
11	AK	103	BCL	C10-C11-C12-C13
11	BM	1004	BCL	CAA-CBA-CGA-O2A
11	AW	103	BCL	CAA-CBA-CGA-O1A
12	AJ	103	LMT	C1-C2-C3-C4
12	bd	102	LMT	C5'-C4'-O1B-C1B
12	AE	104	LMT	O5'-C1'-O1'-C1
11	L	304	BCL	C2-C1-O2A-CGA
12	BH	1005	LMT	C5'-C4'-O1B-C1B
14	bf	104	0V9	O2-C10-C11-C12
14	bo	104	0V9	C2-C3-O3-C30
12	BV	1004	LMT	C5'-C4'-O1B-C1B
18	M	402	CD4	C49-C50-C51-C52
12	BS	1004	LMT	O5'-C5'-C6'-O6'
11	AR	101	BCL	CAA-CBA-CGA-O2A
11	AS	104	BCL	CAA-CBA-CGA-O2A
11	al	1001	BCL	CAA-CBA-CGA-O2A
14	AJ	104	0V9	O2-C10-C11-C12
12	BA	104	LMT	C5'-C4'-O1B-C1B
14	bb	104	0V9	C2-C3-O3-C30
12	BA	101	LMT	C5'-C4'-O1B-C1B
19	H1	1003	PGW	C7-C8-C9-C10
15	C	404	HEC	CAA-CBA-CGA-O1A
14	bk	1003	0V9	C30-C31-C32-C33
11	AS	104	BCL	CAA-CBA-CGA-O1A
18	ae	102	CD4	O15-C35-C36-C37
12	BX	102	LMT	C1-C2-C3-C4
18	M	402	CD4	C52-C53-C54-C55

There are no ring outliers.

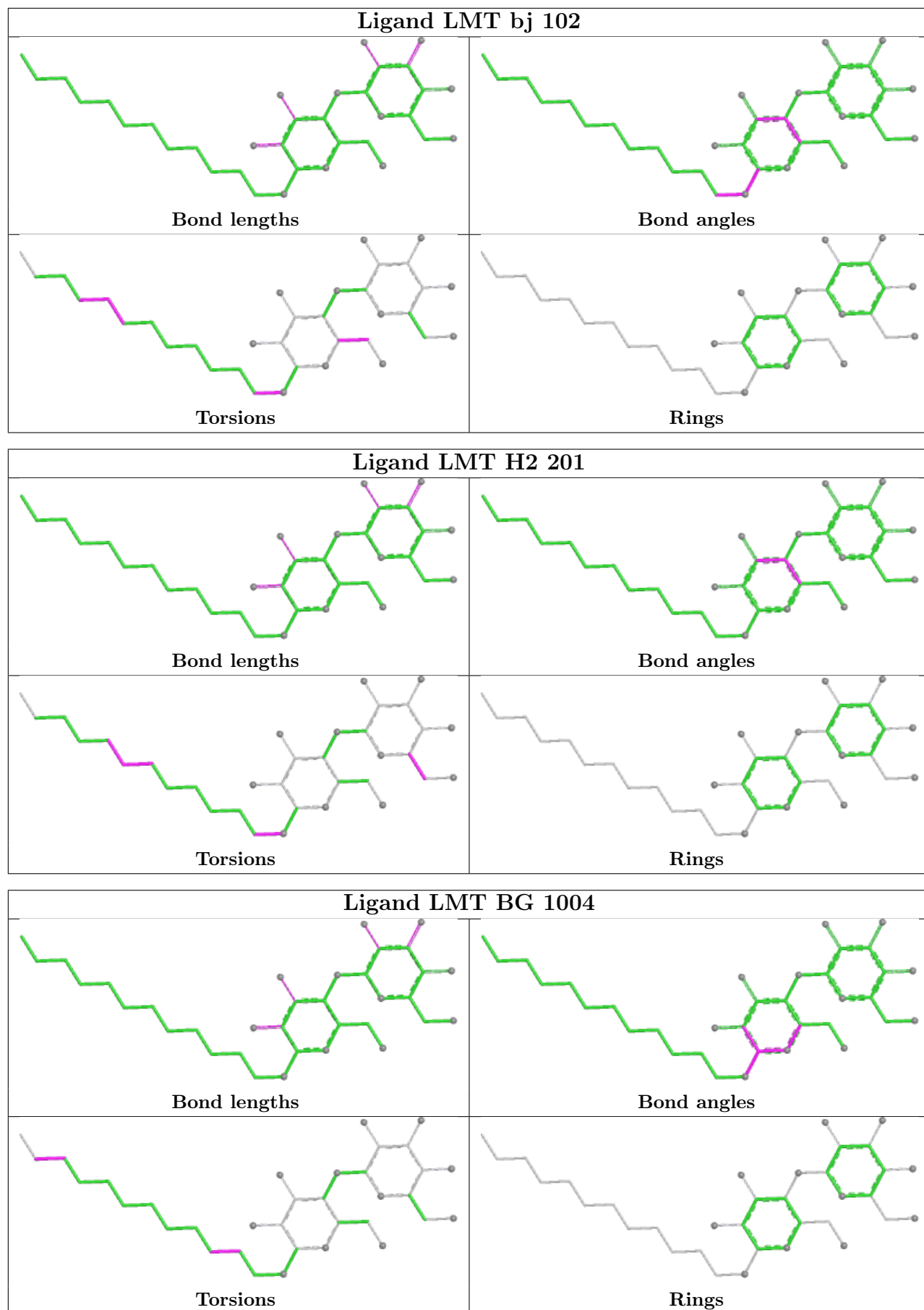
No monomer is involved in short contacts.

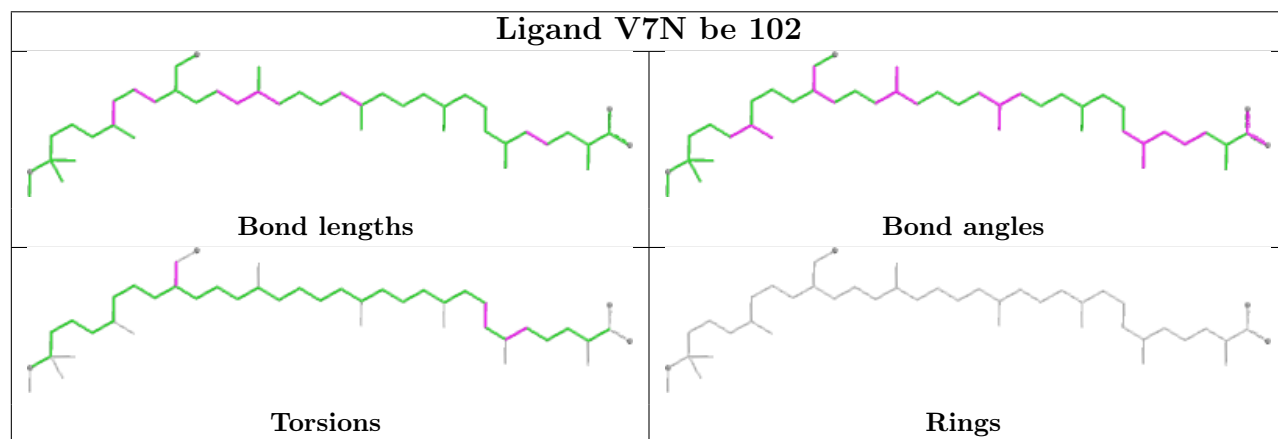
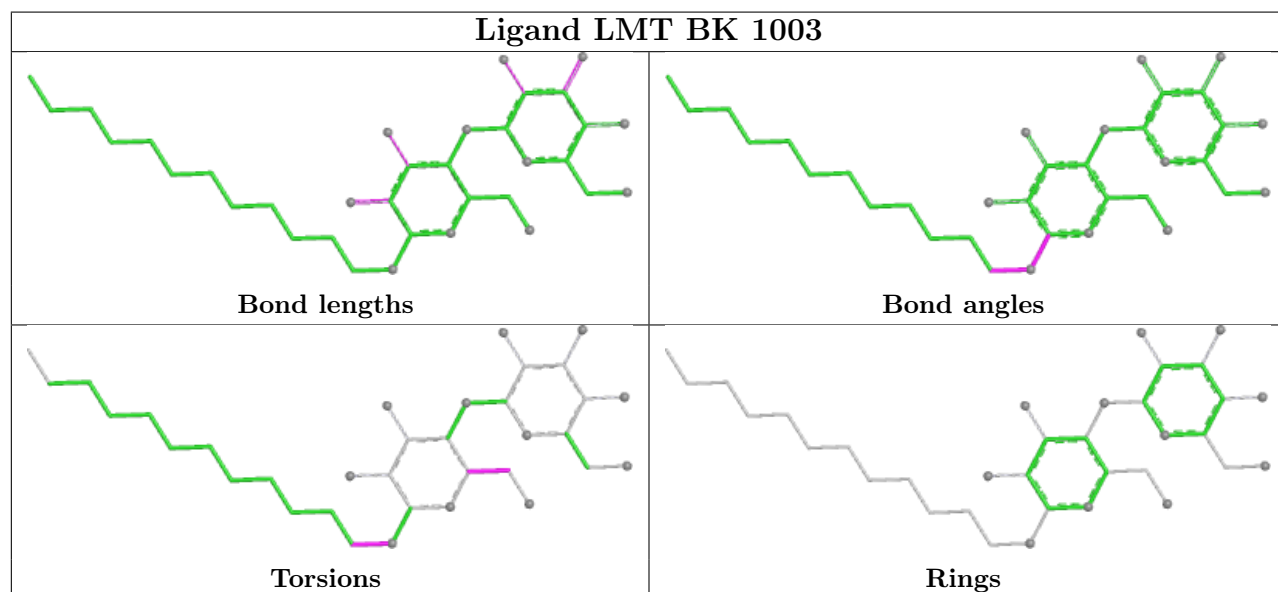
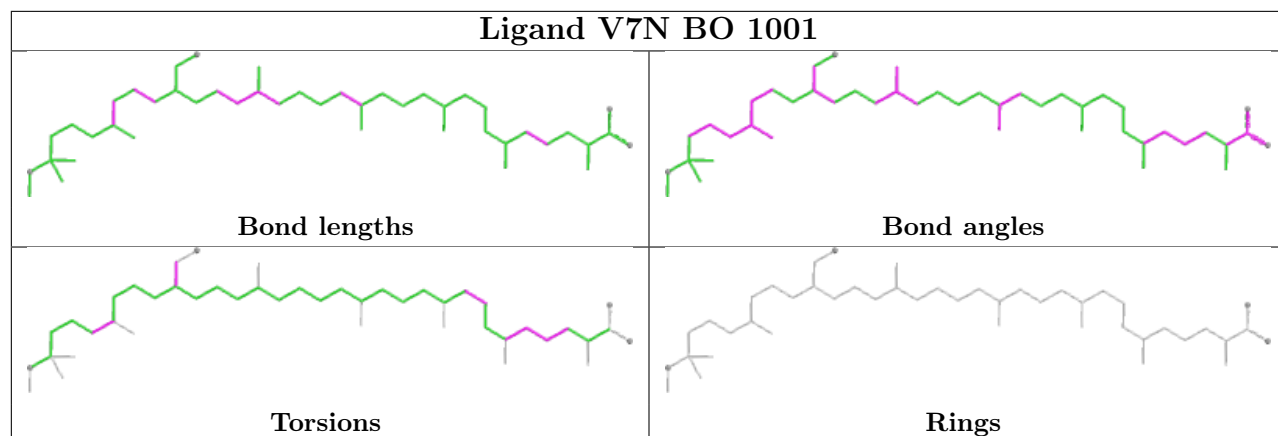
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

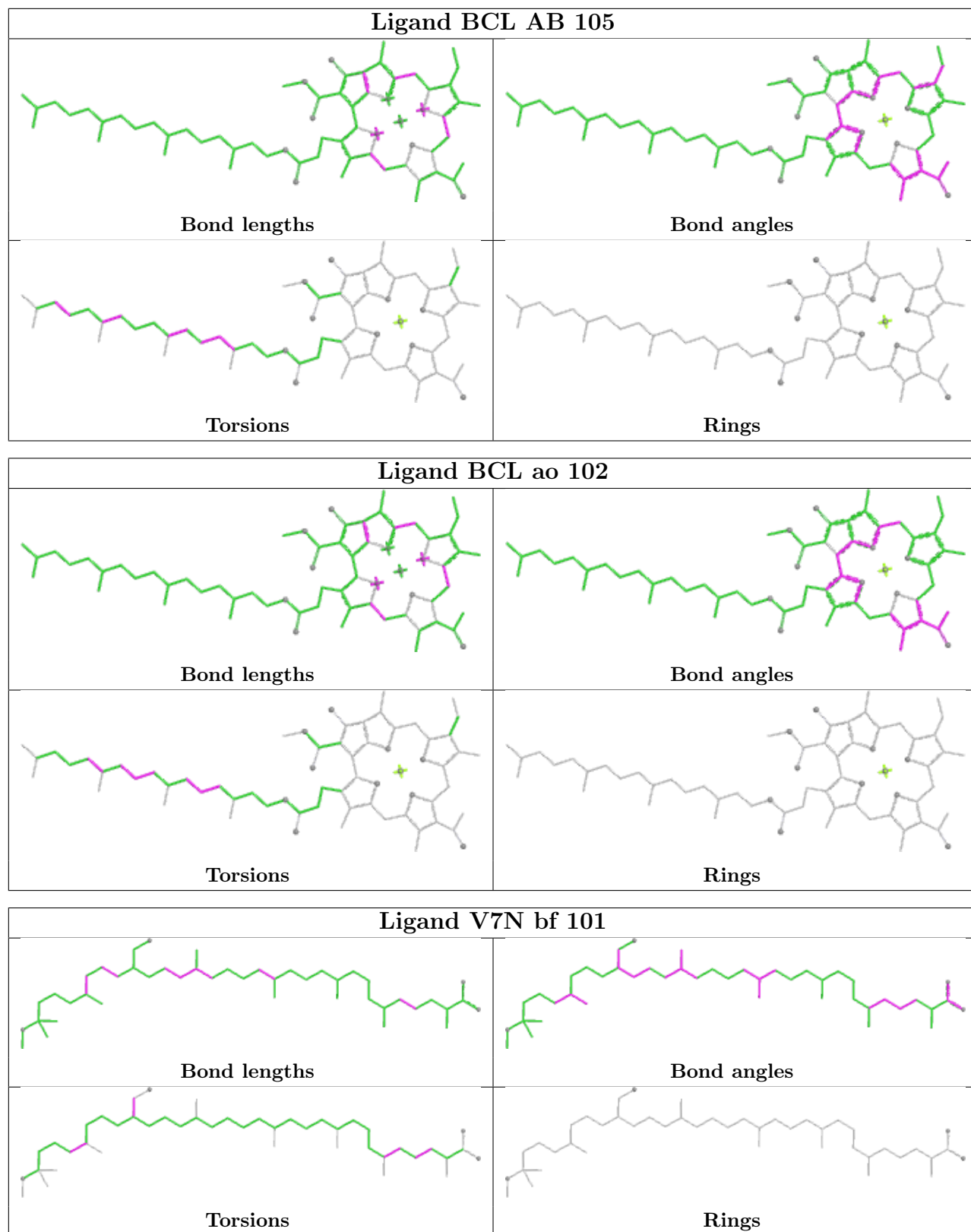


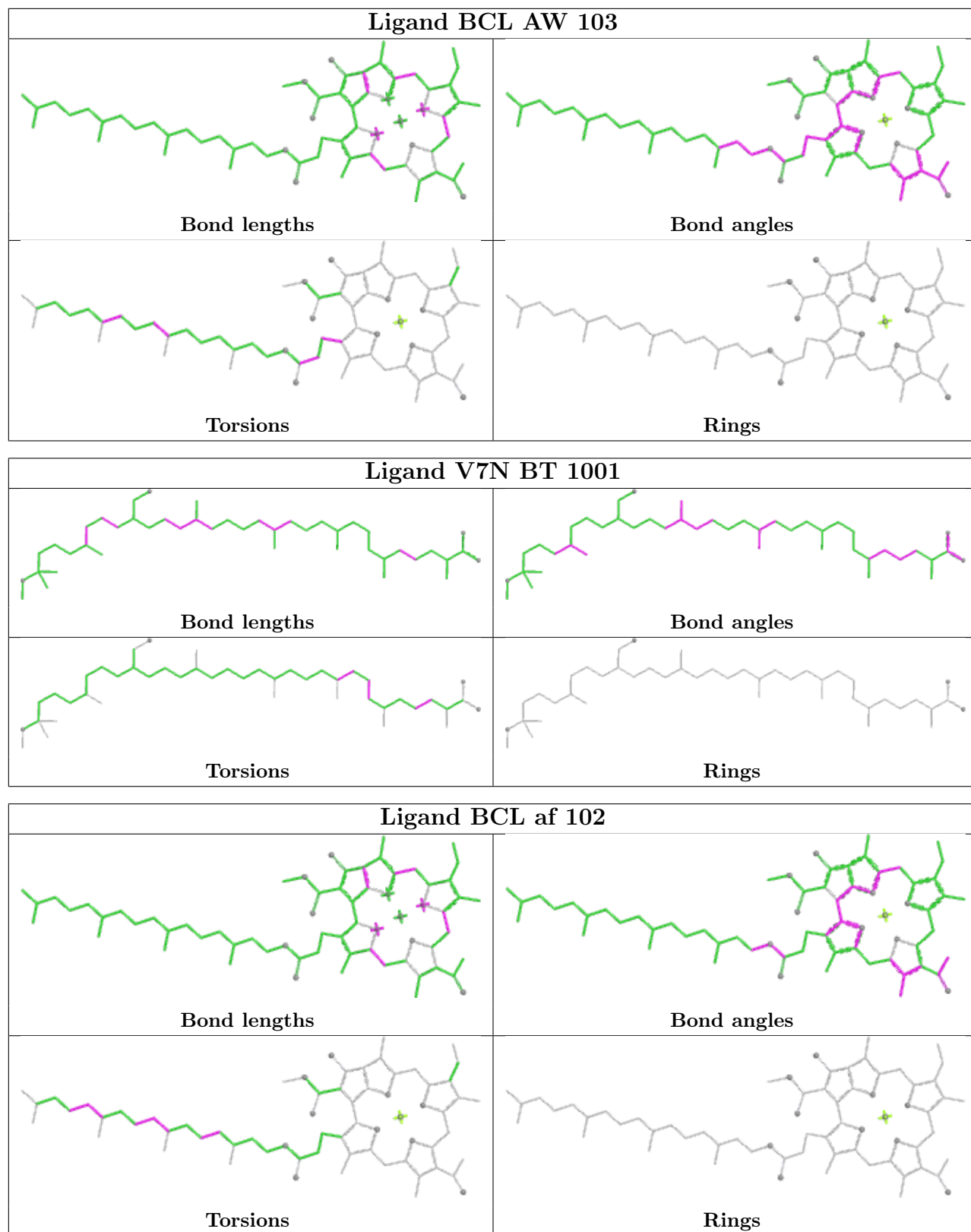


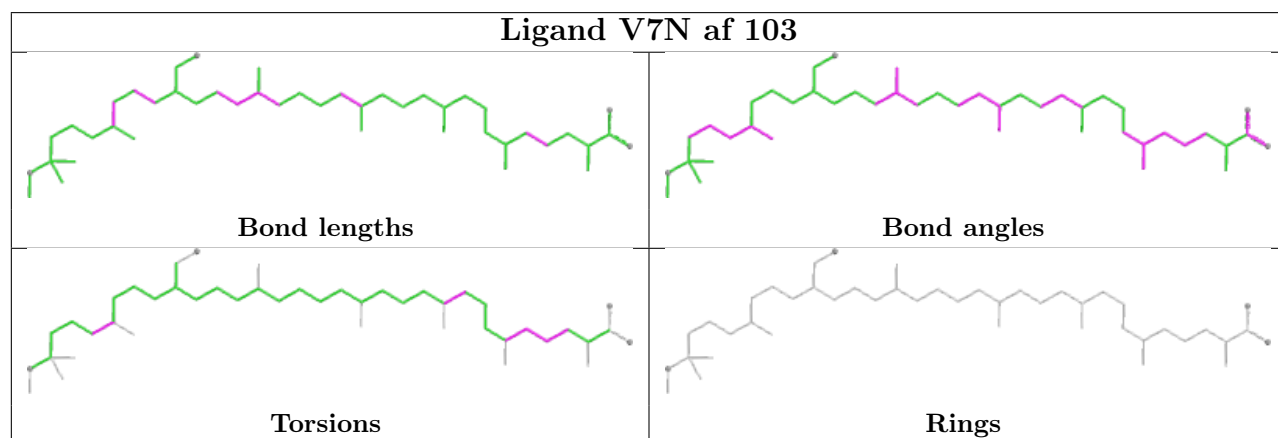
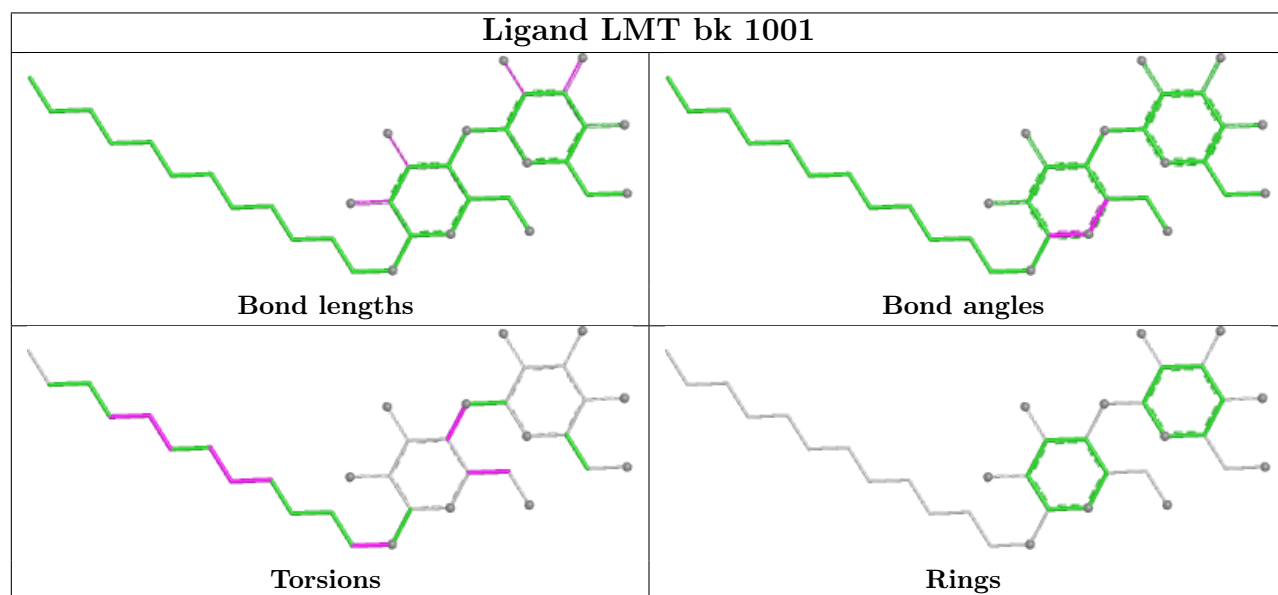
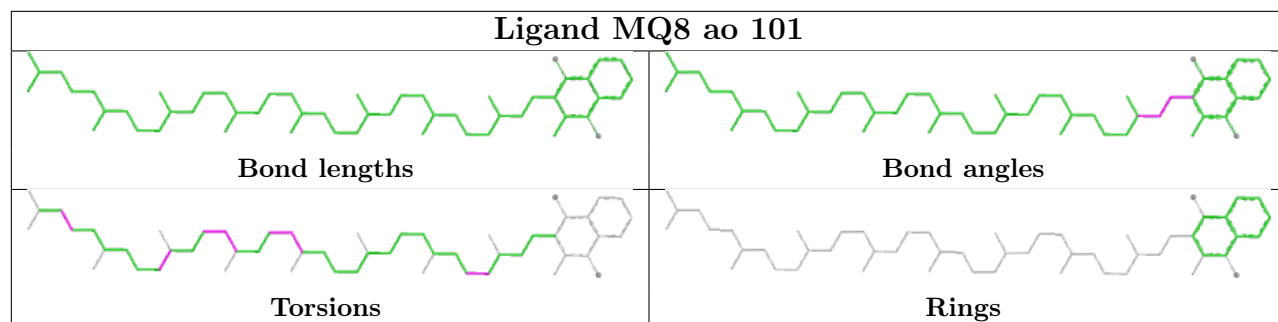


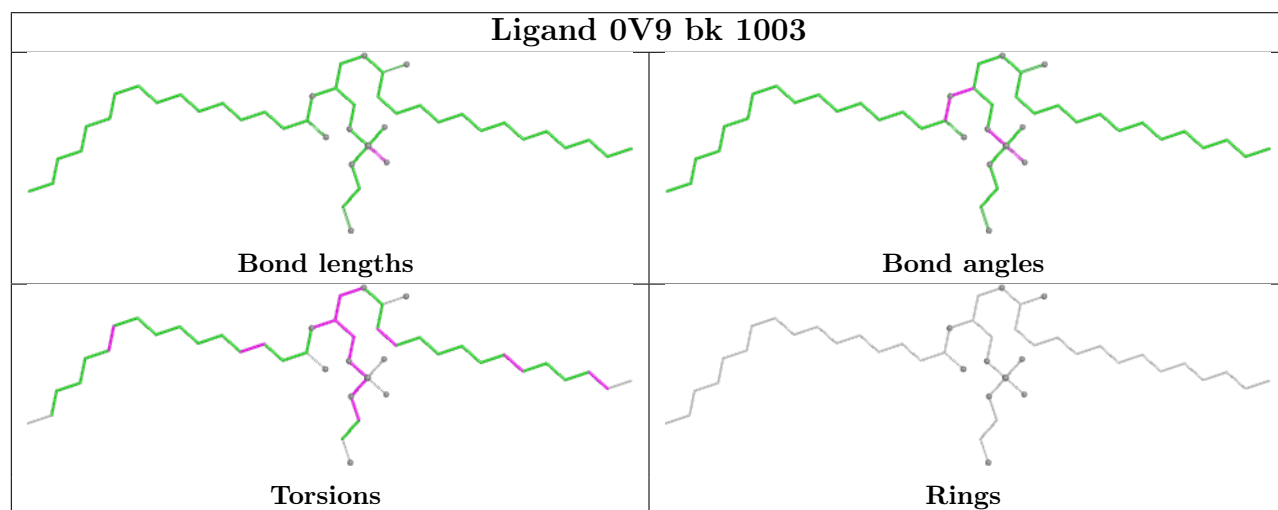
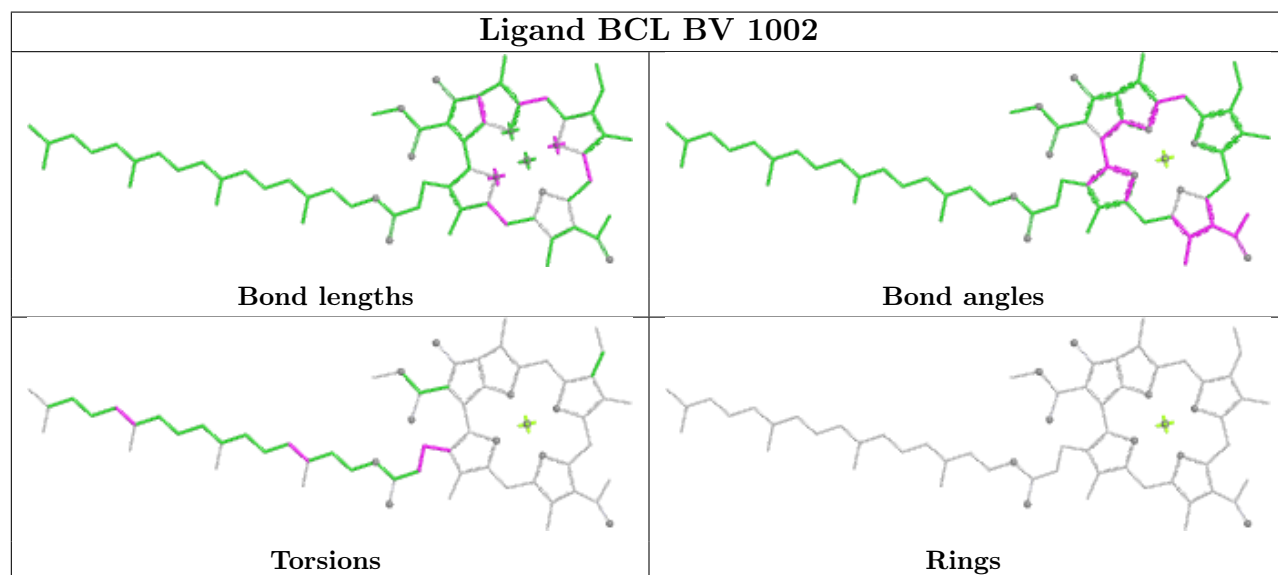
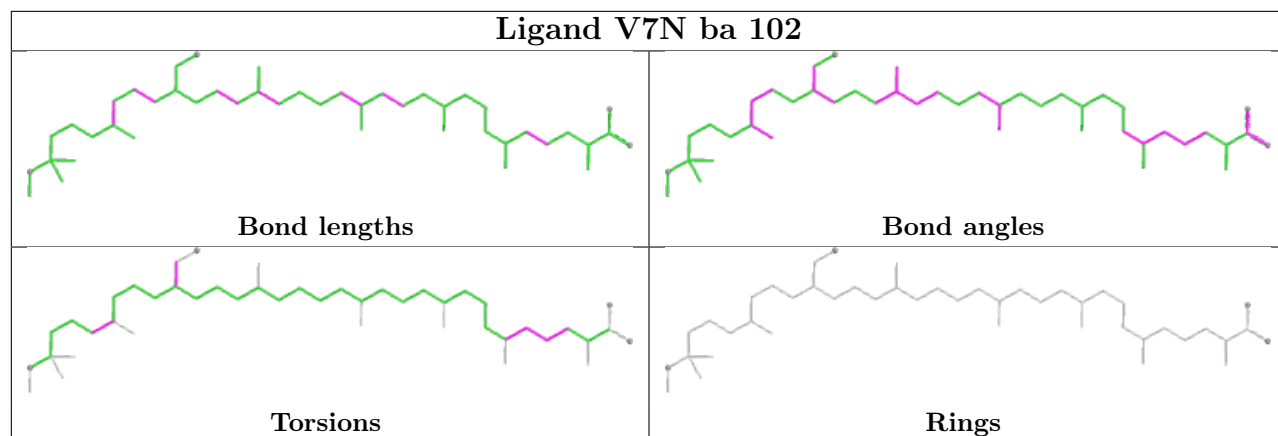


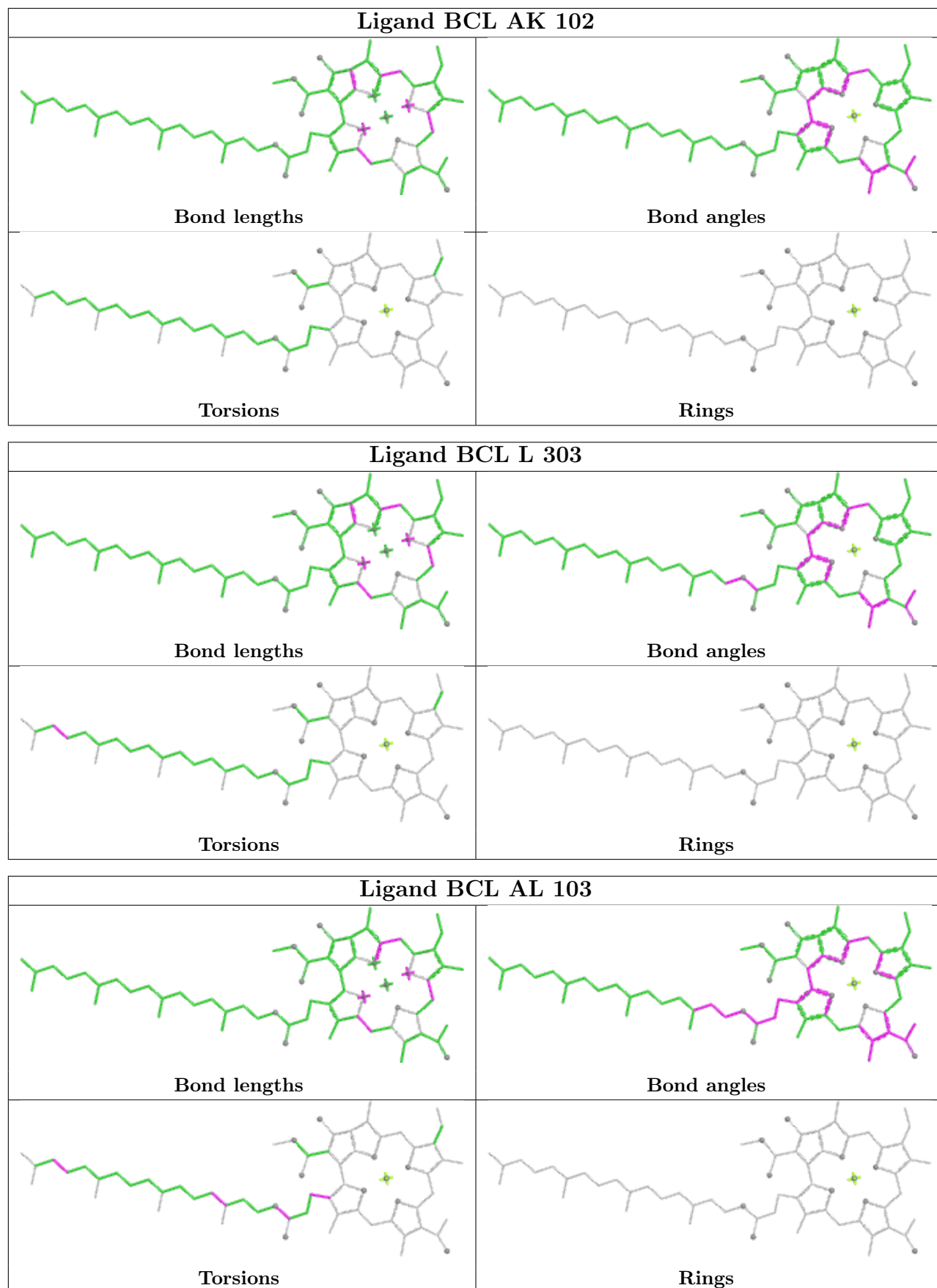


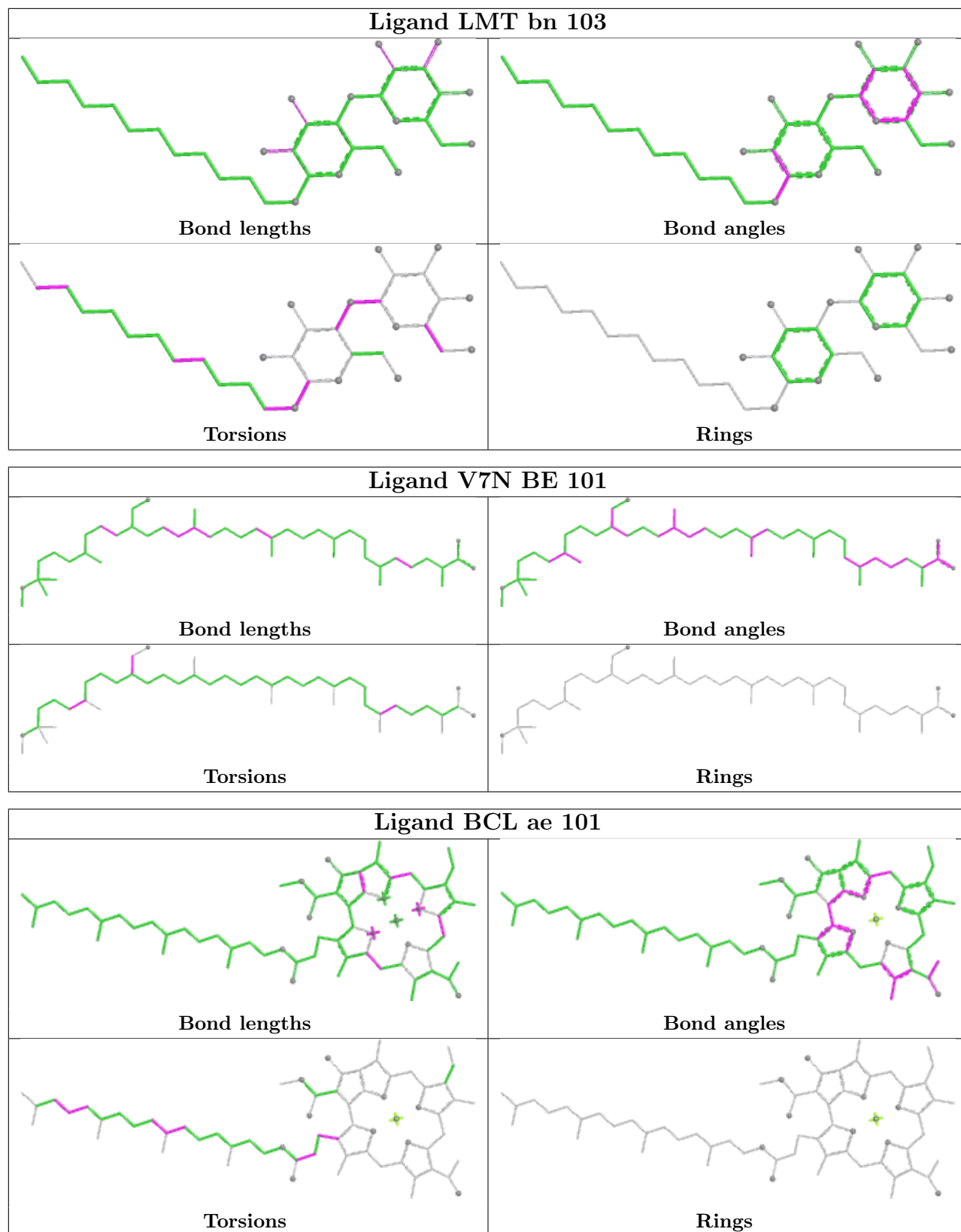




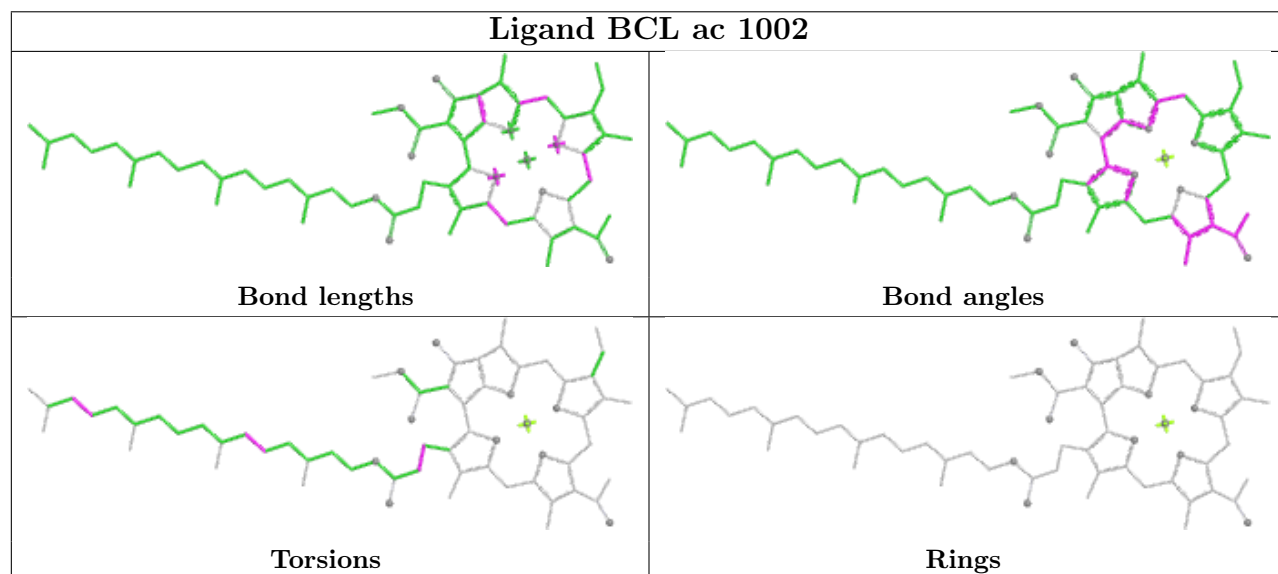
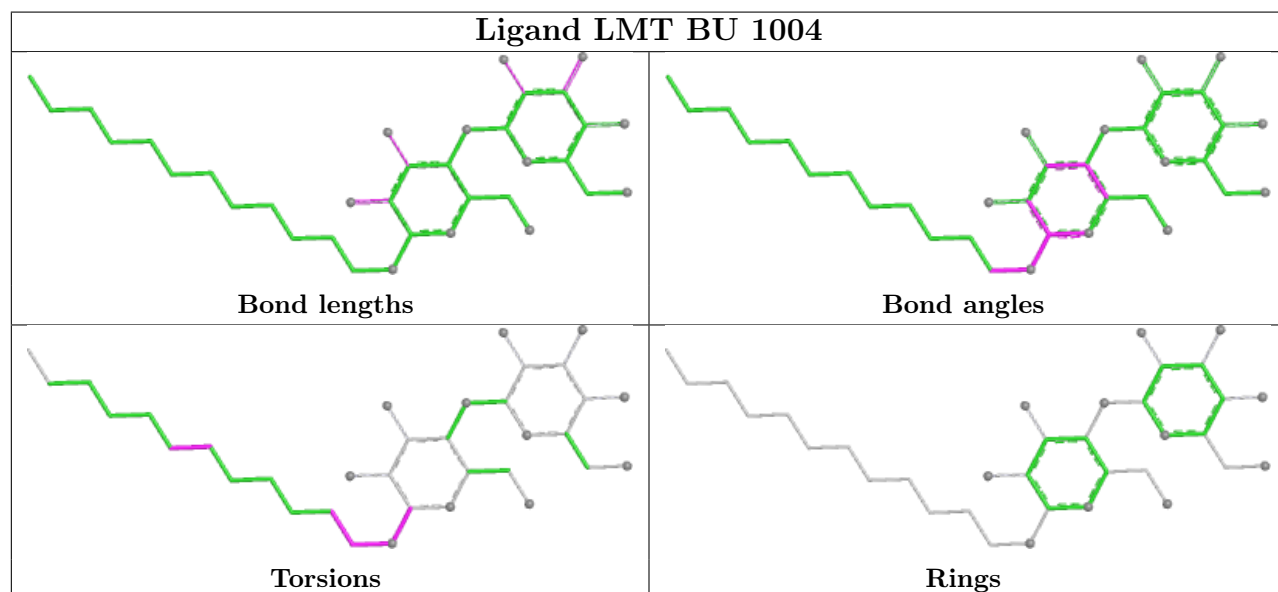
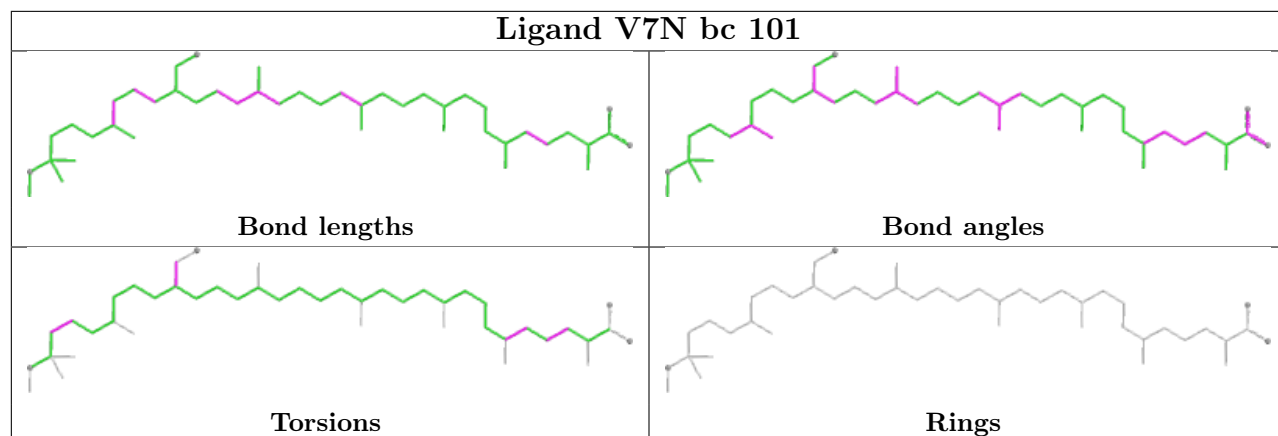


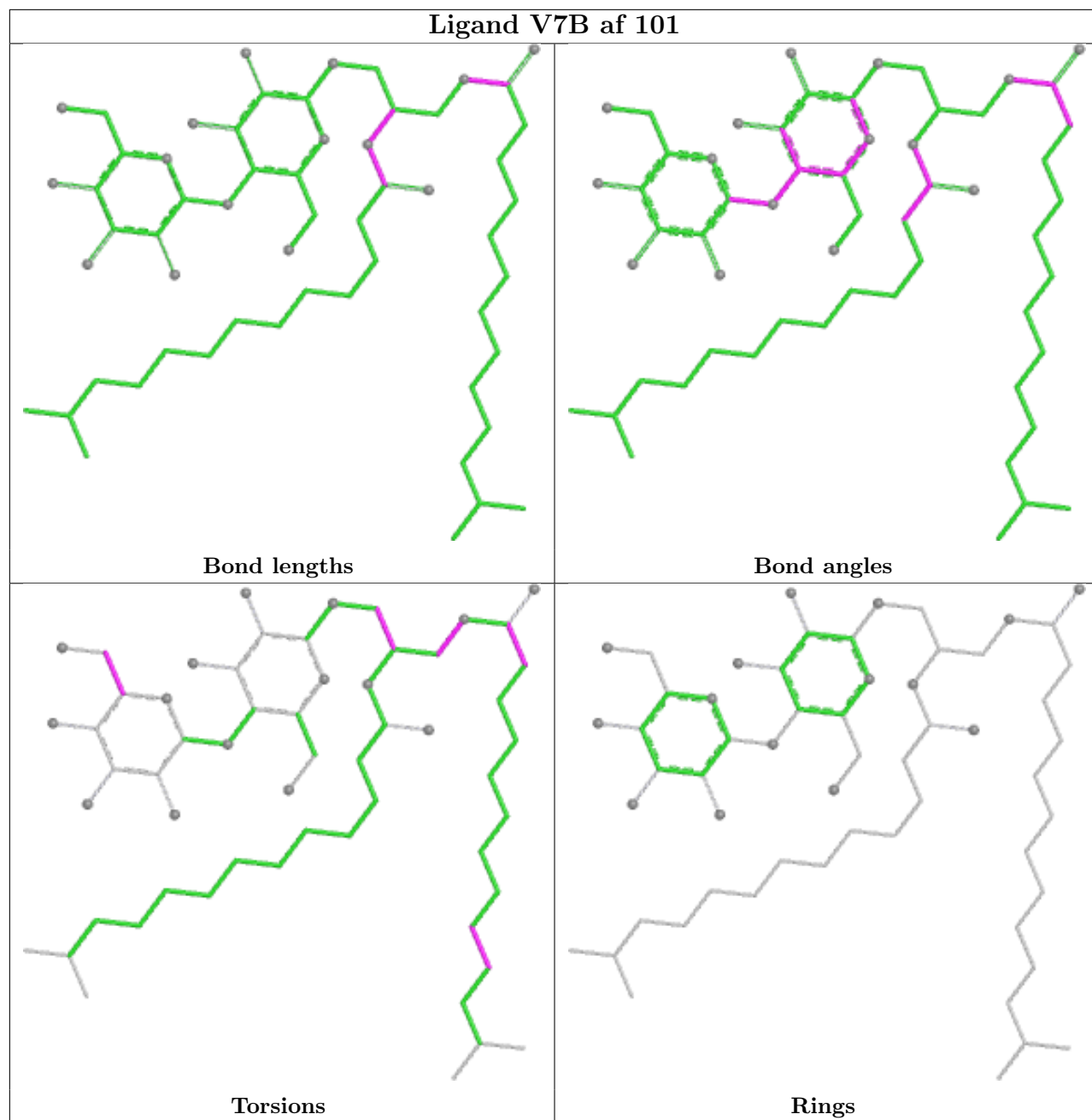


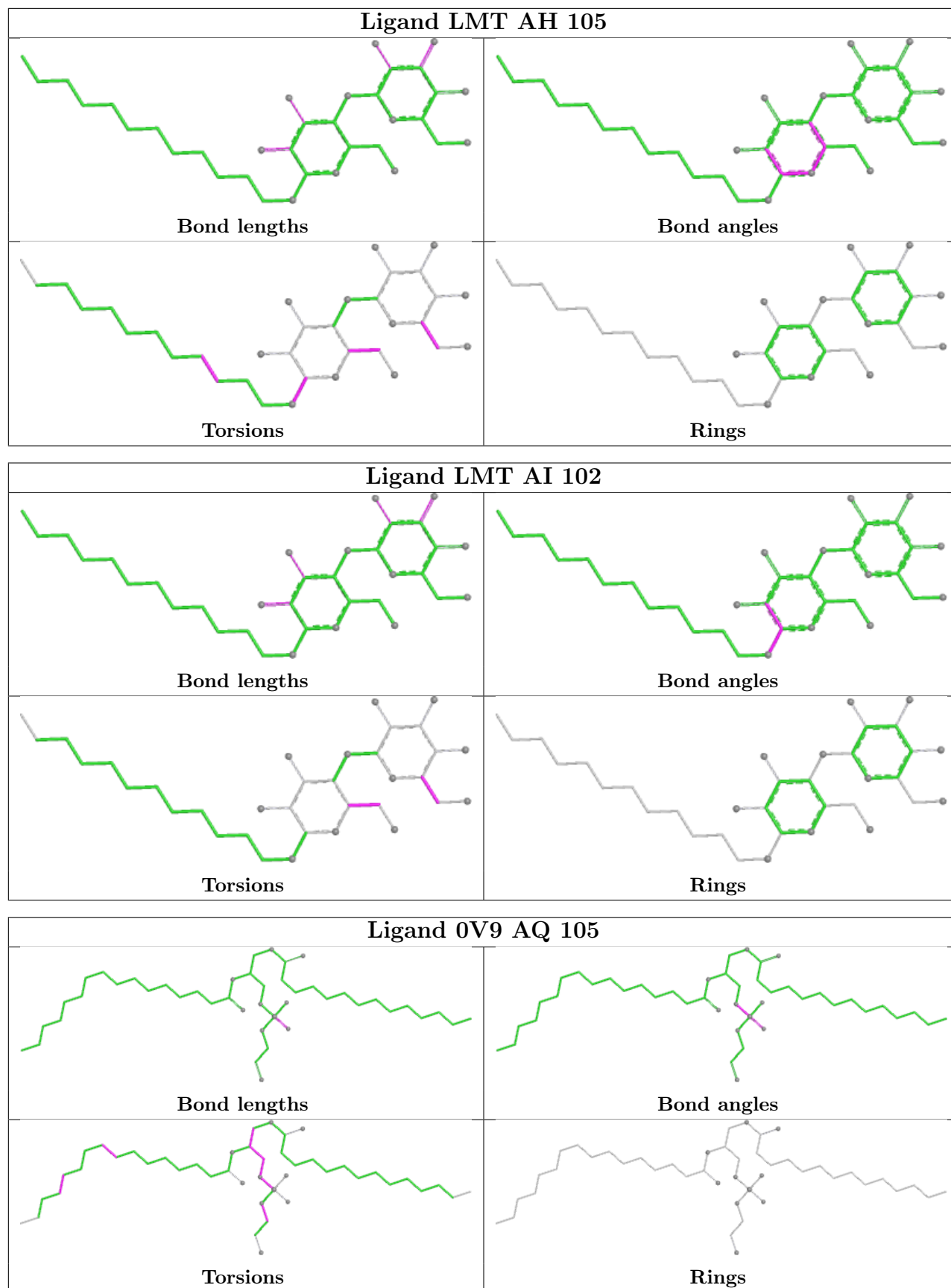


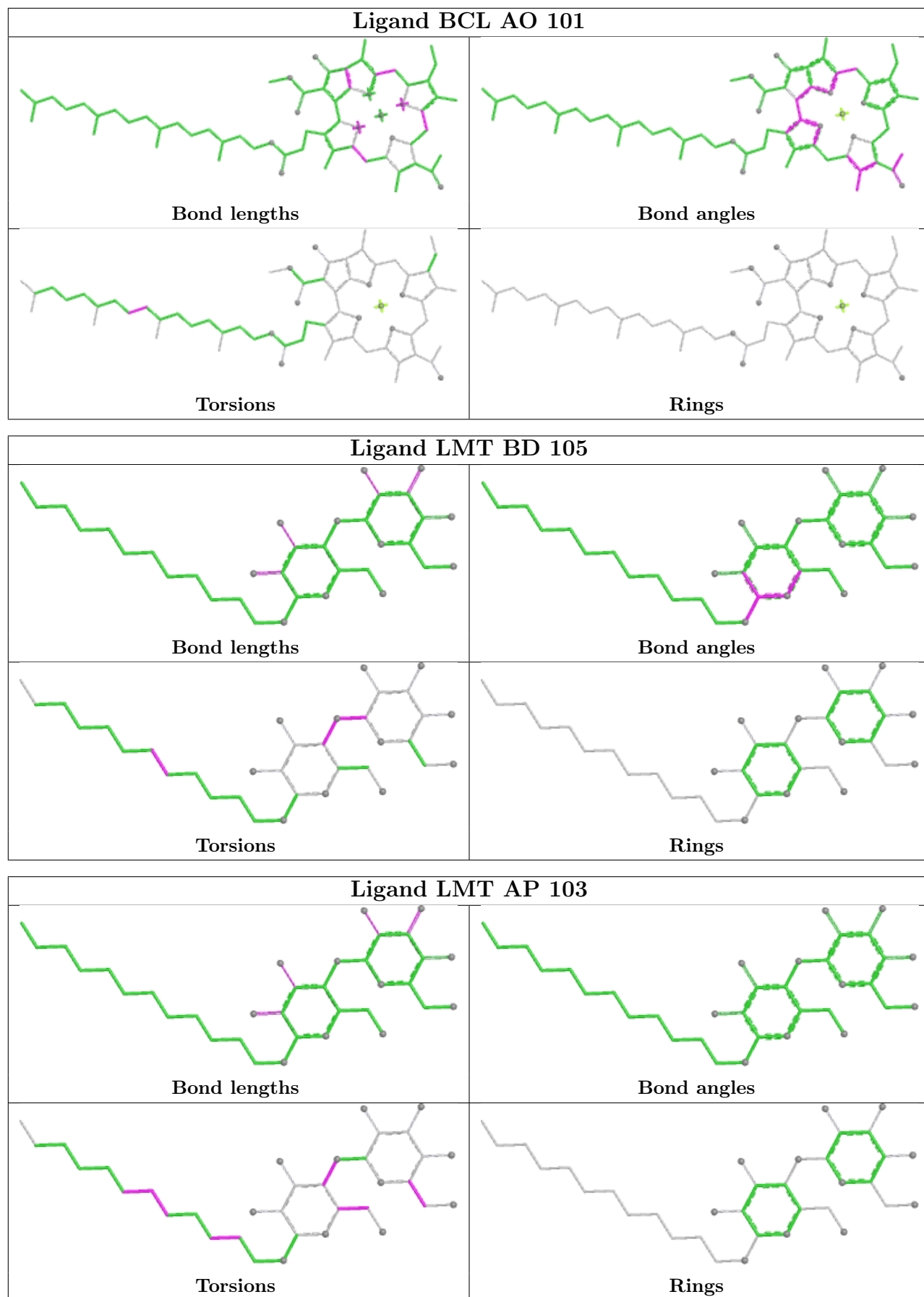


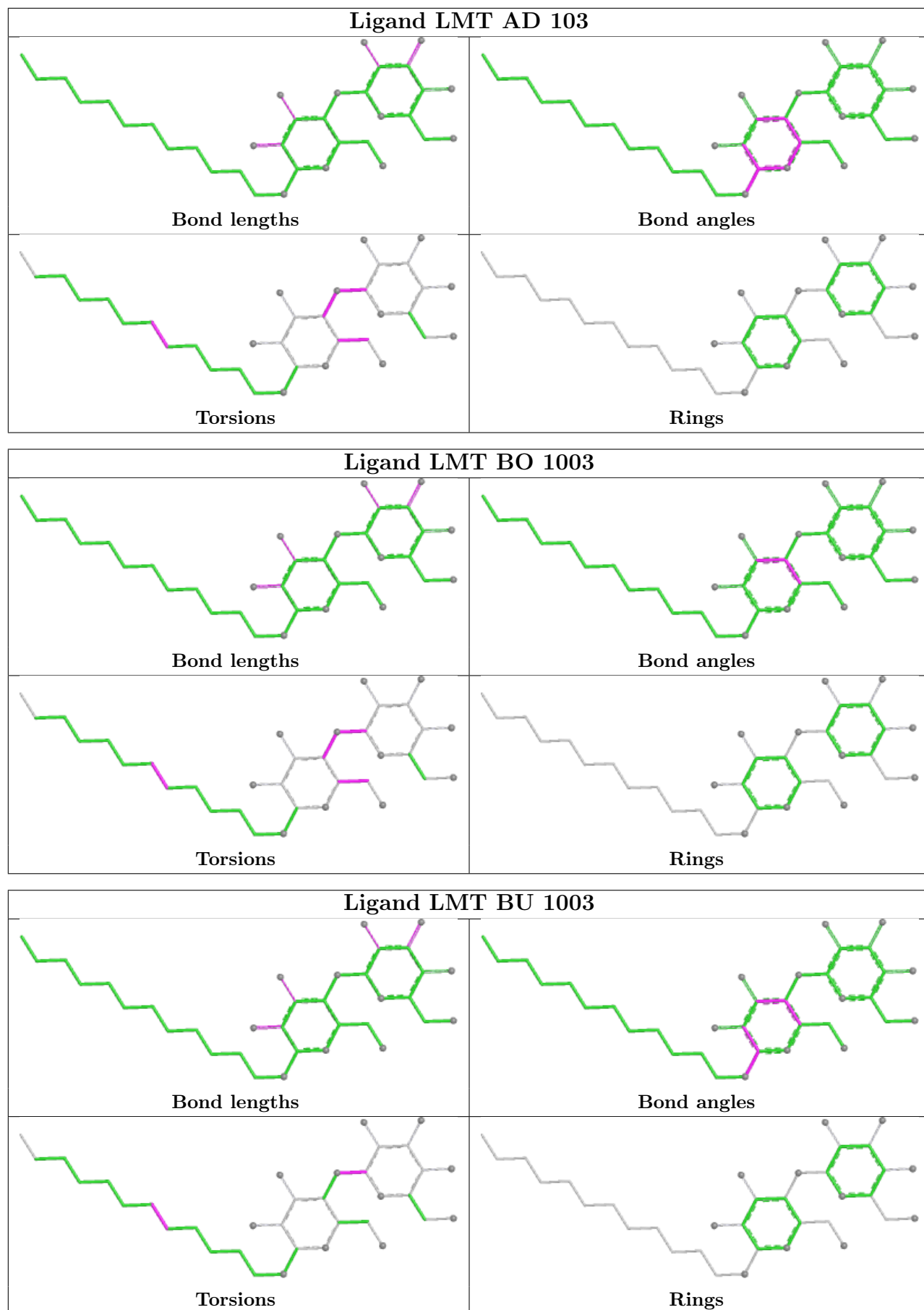


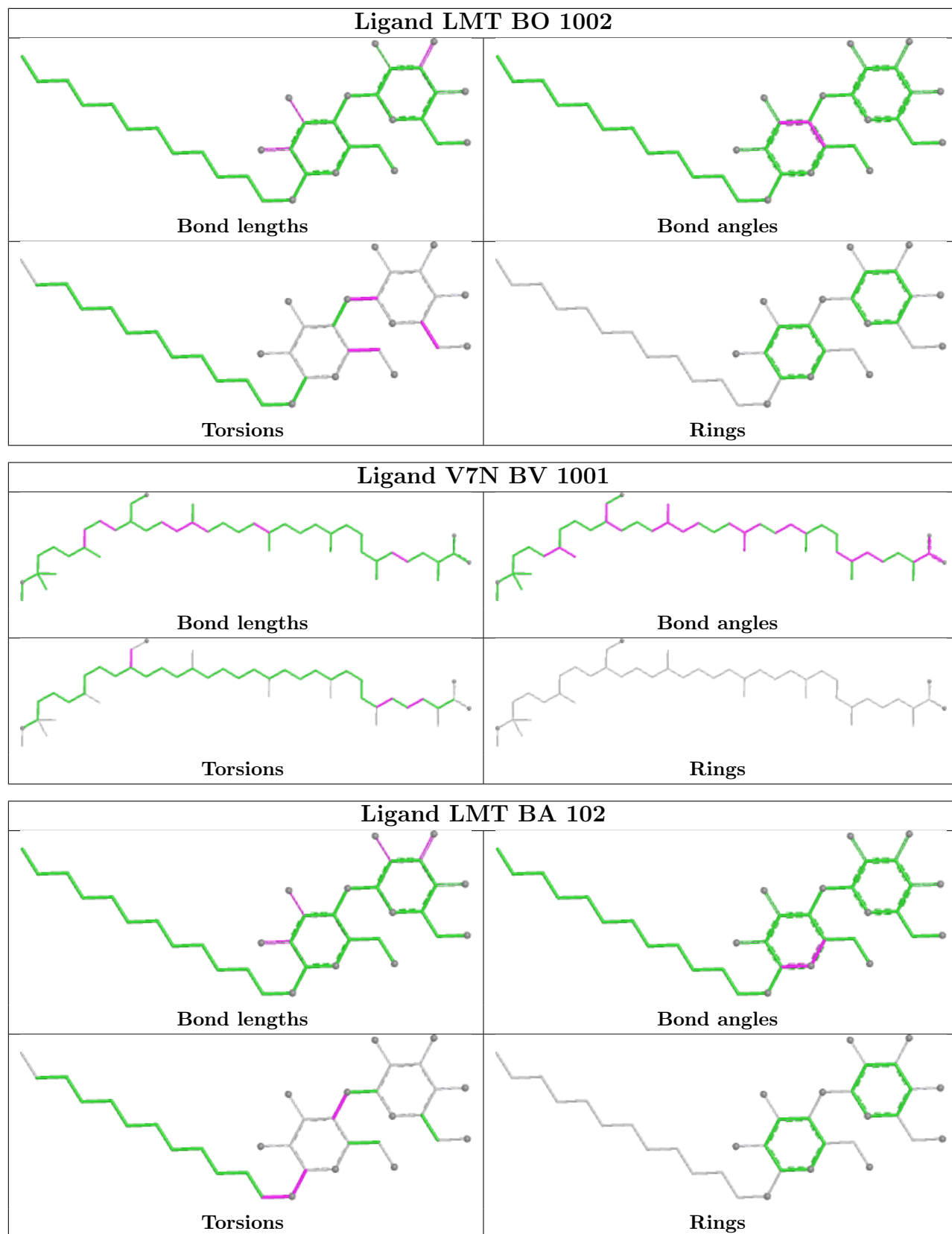


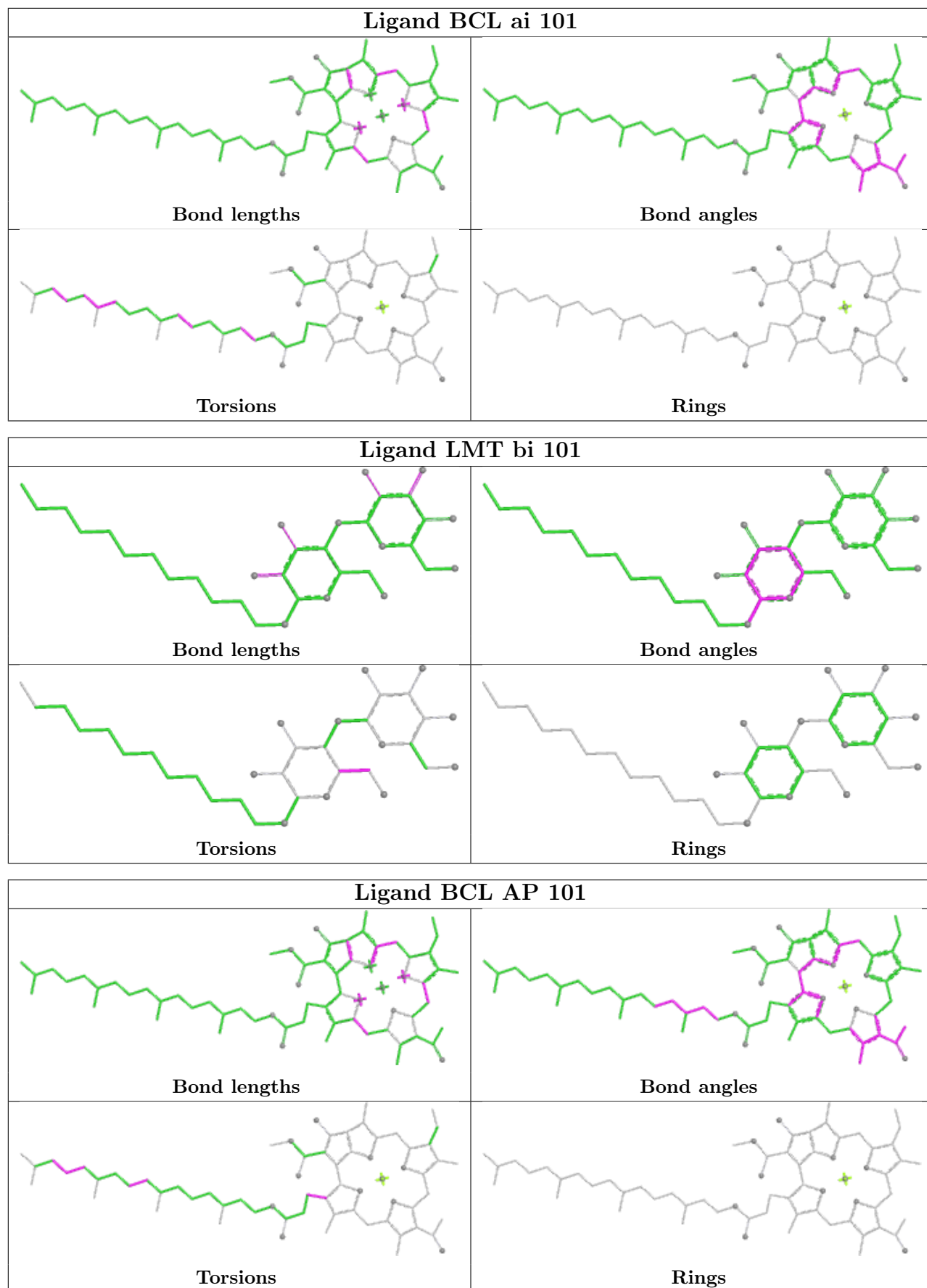


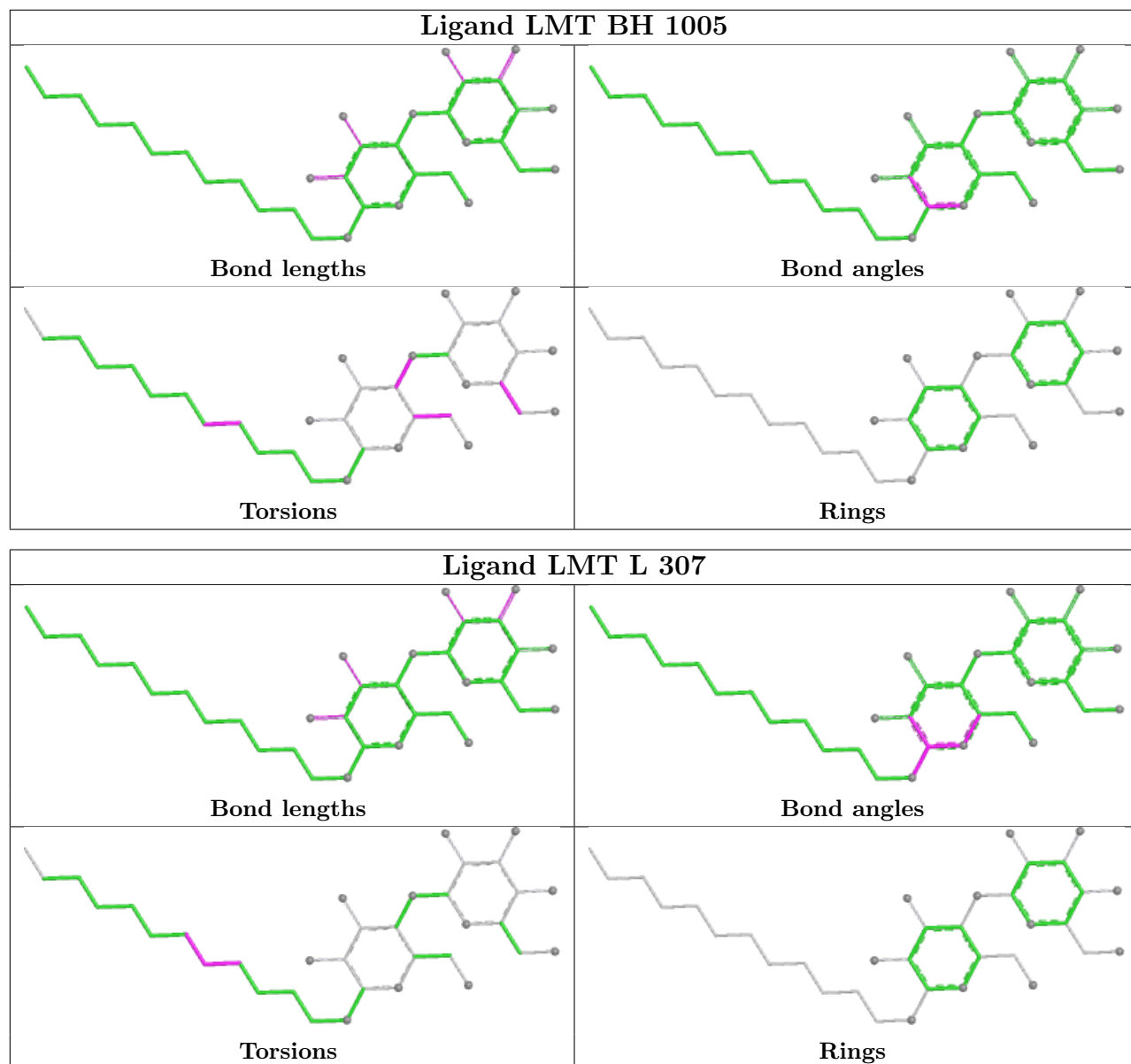




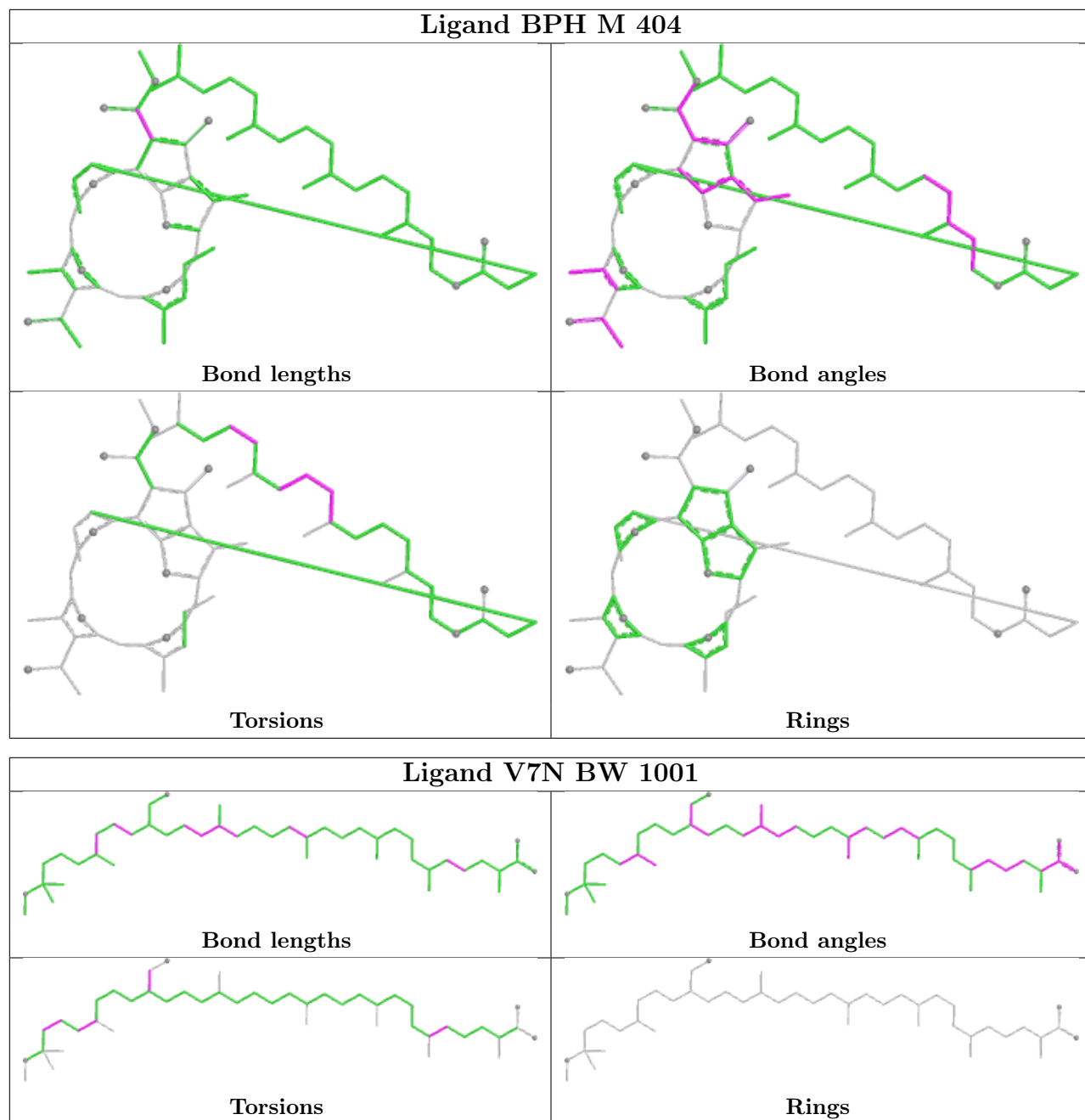


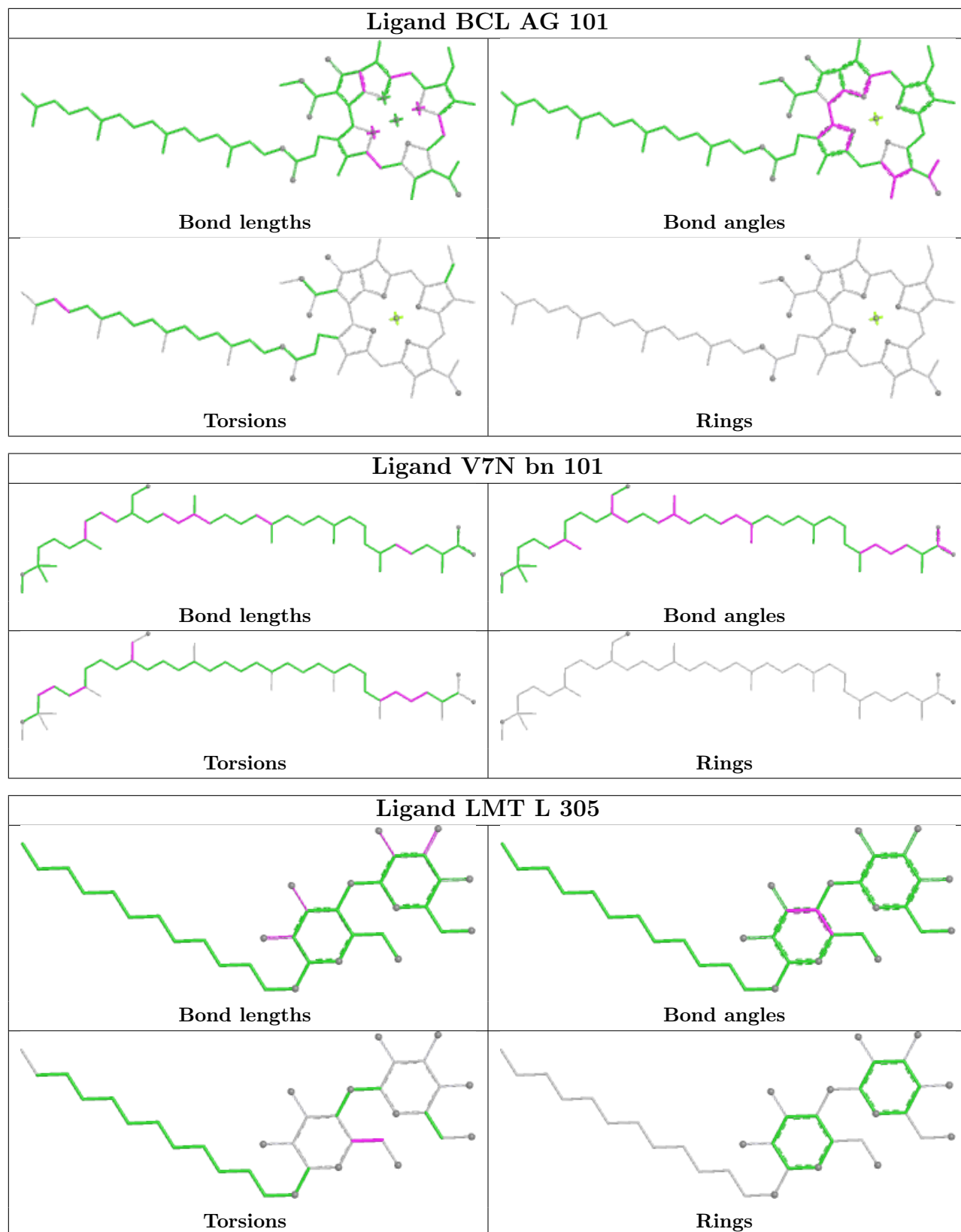


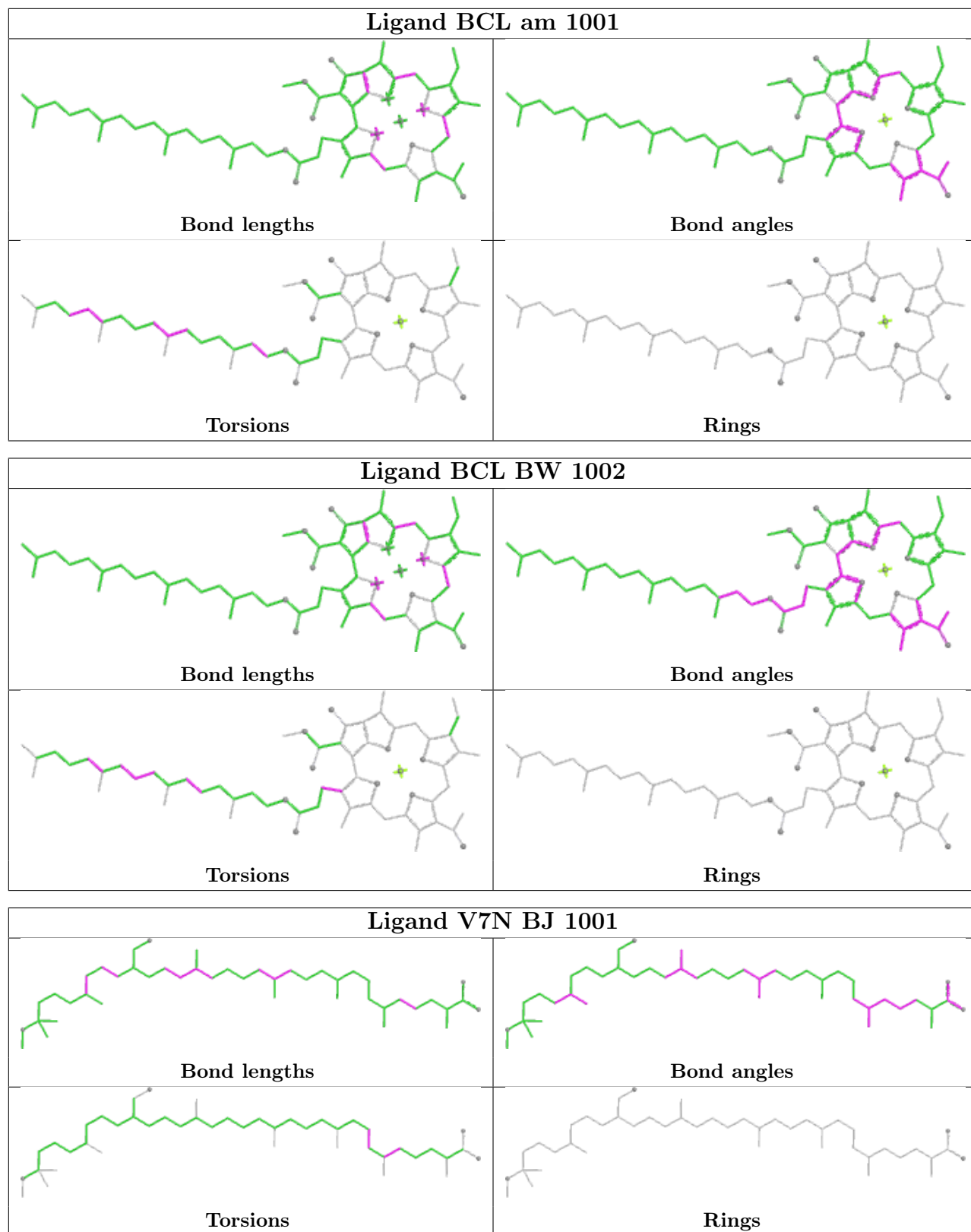


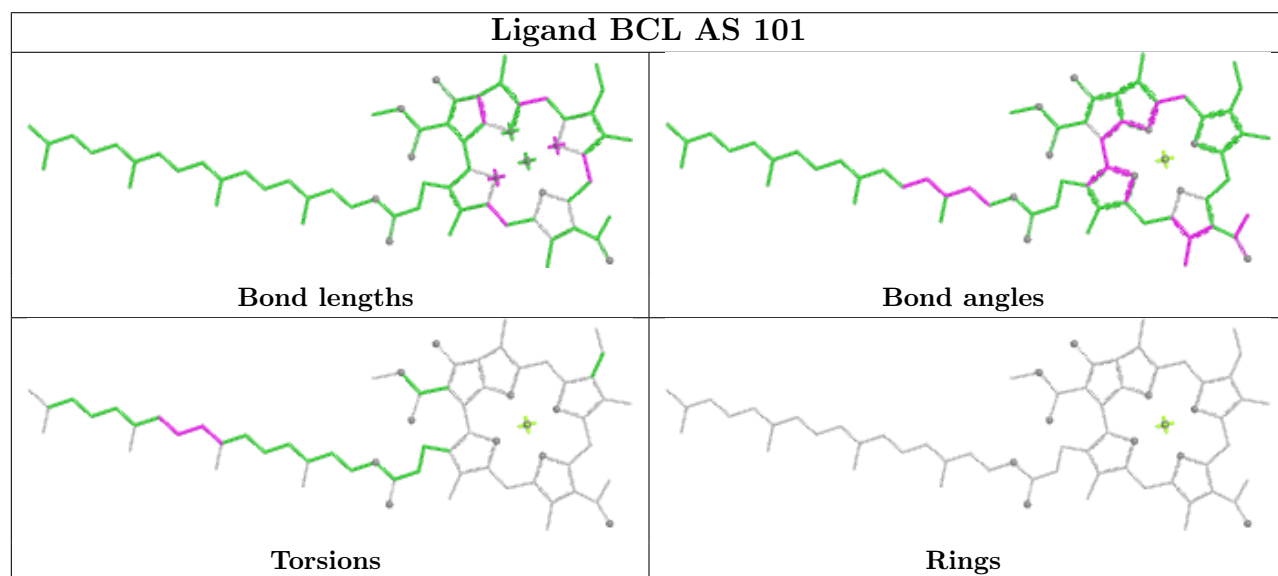
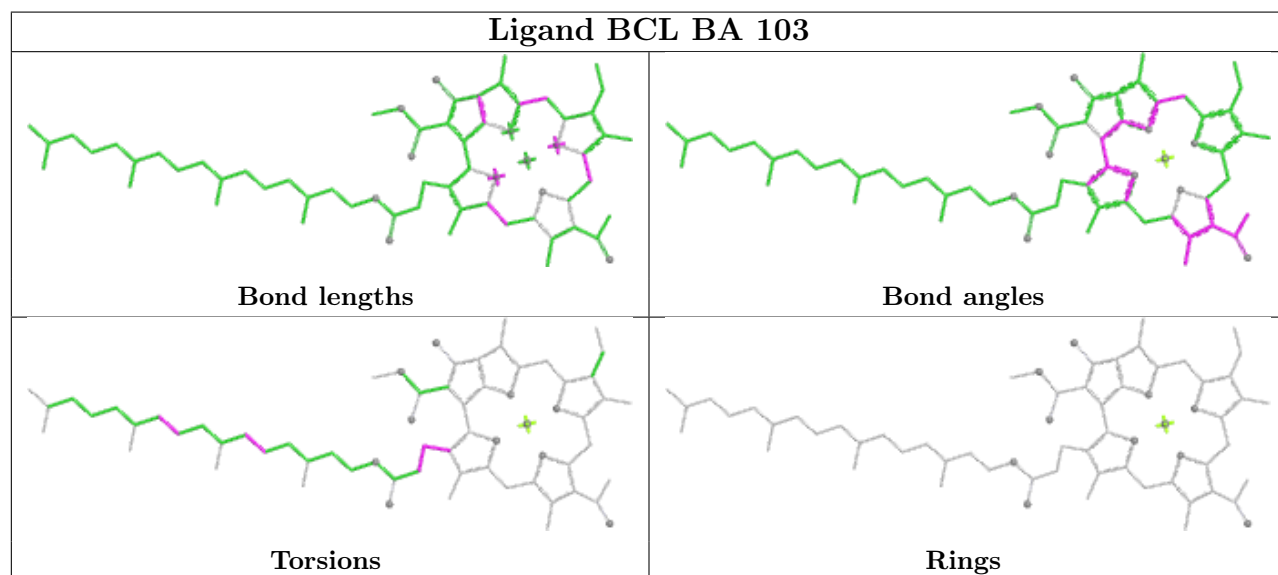
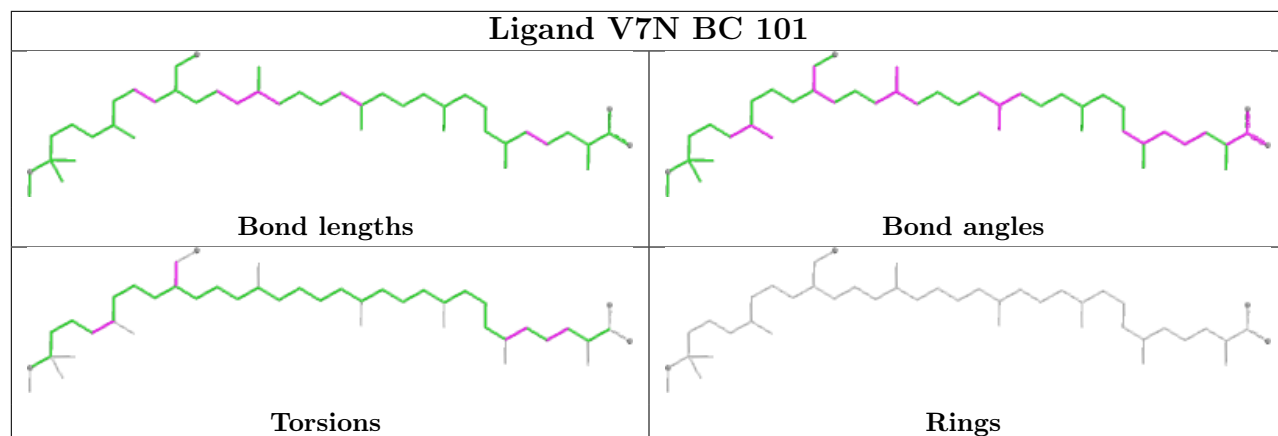


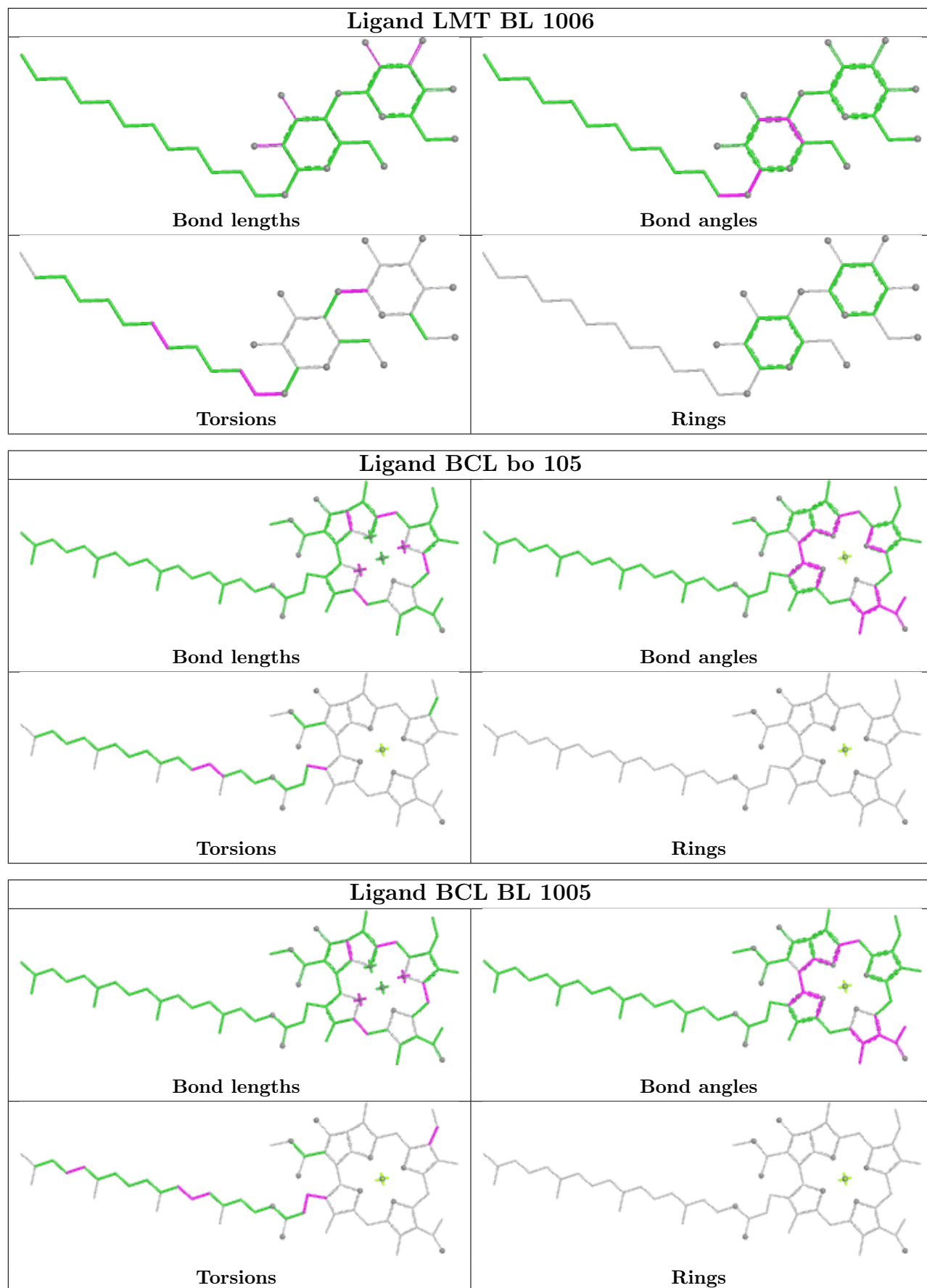


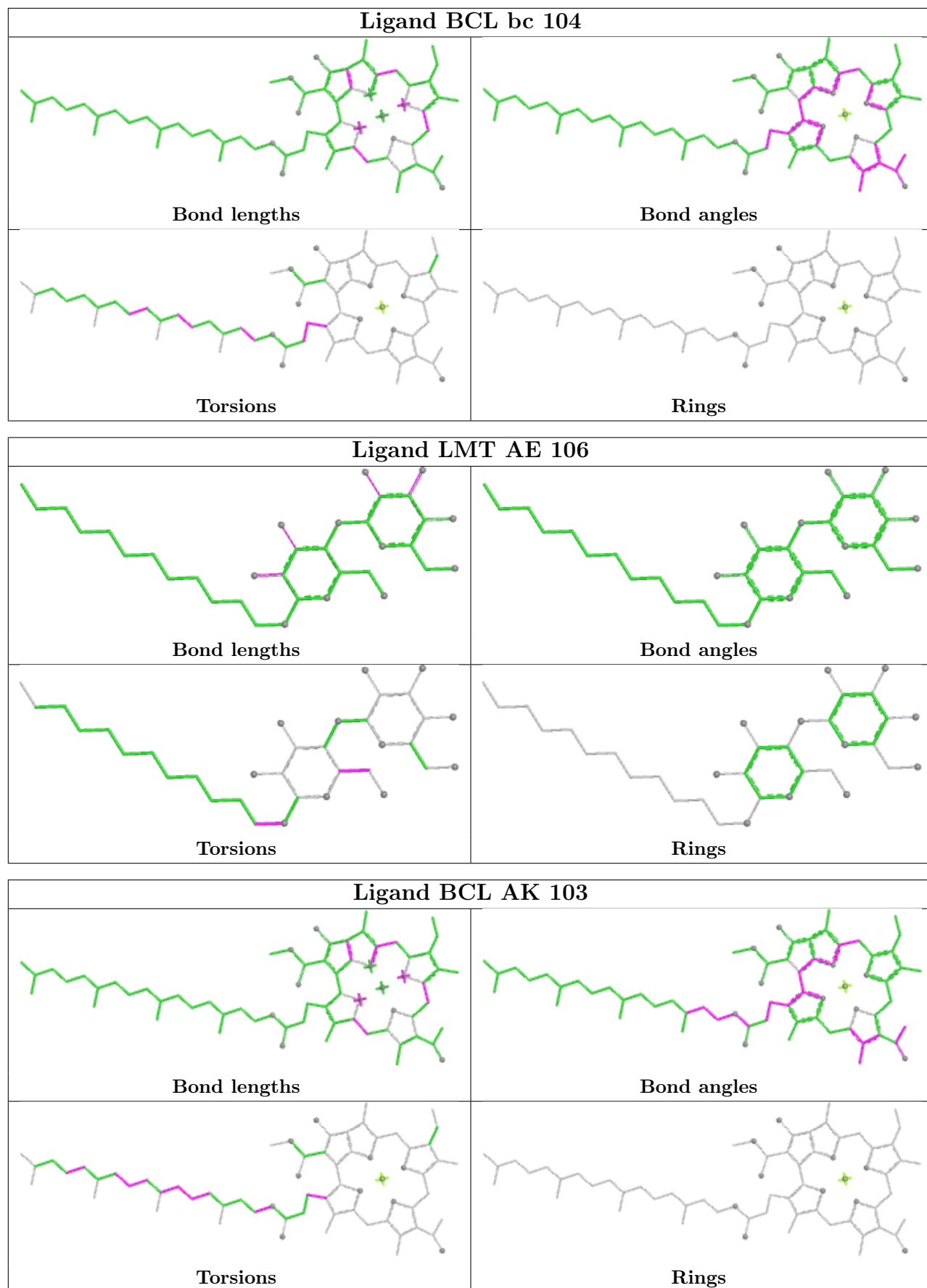


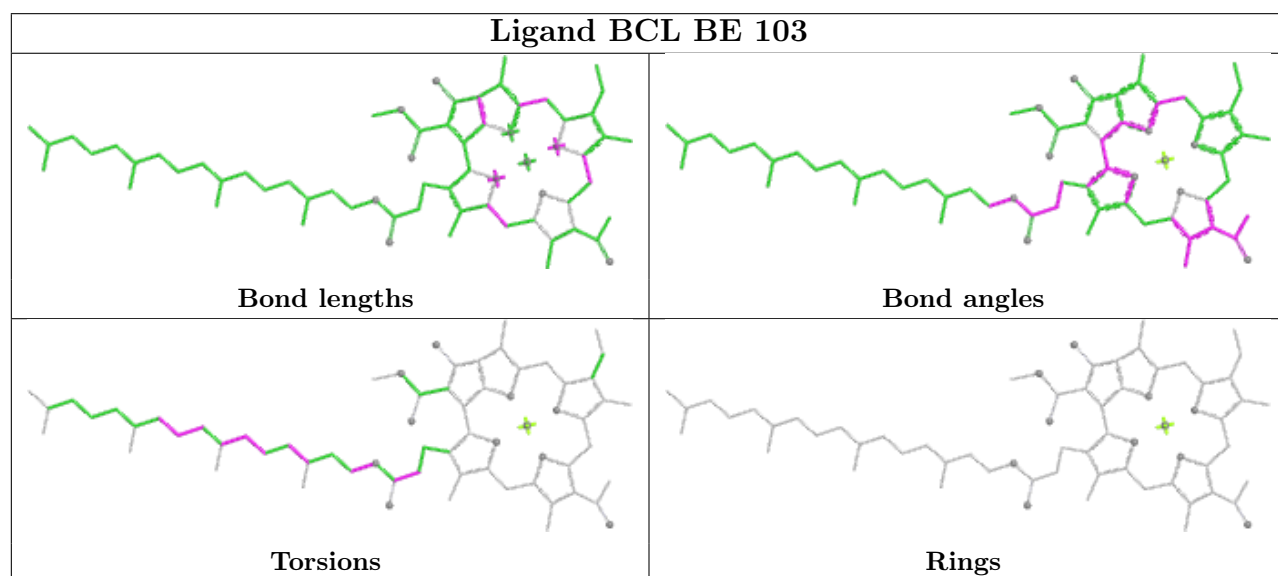
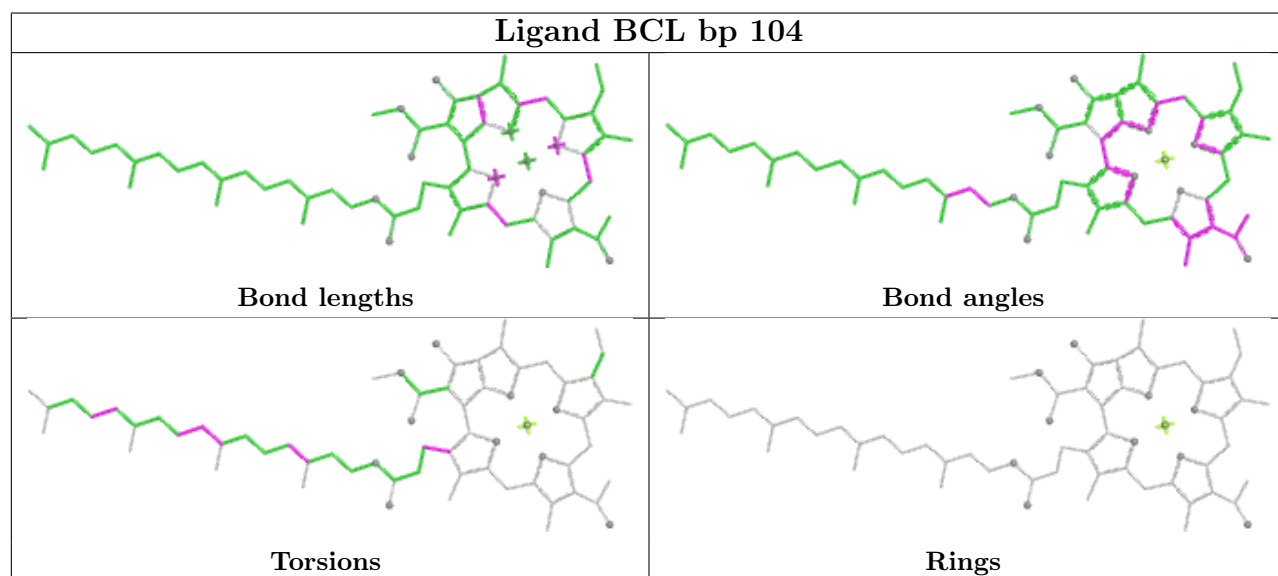
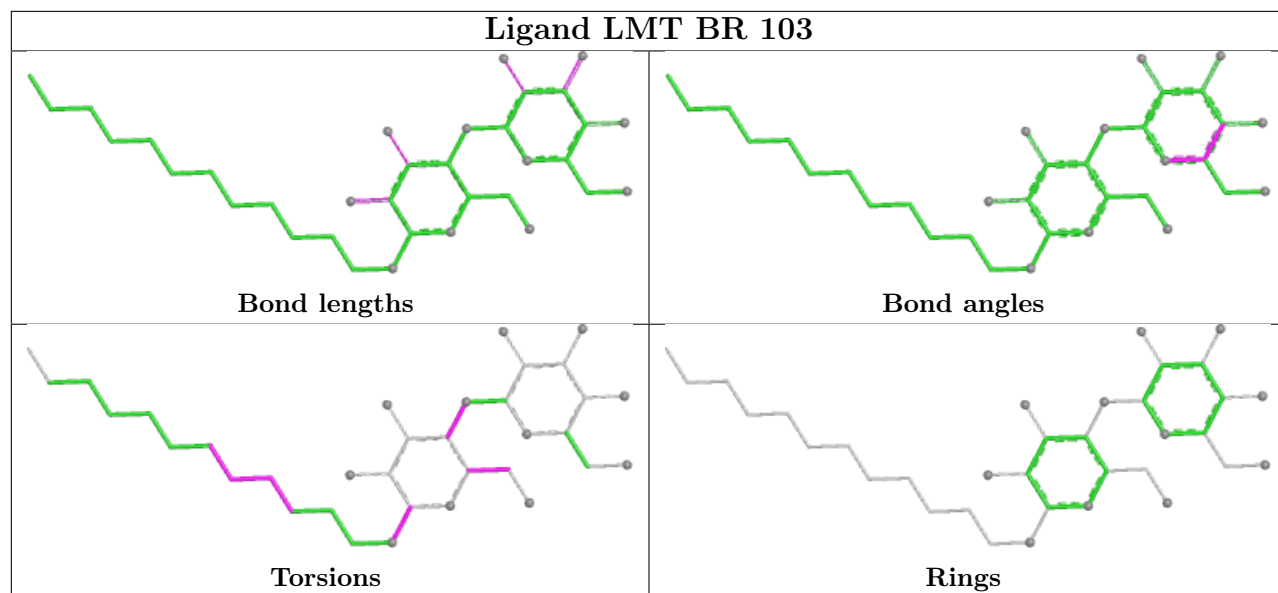


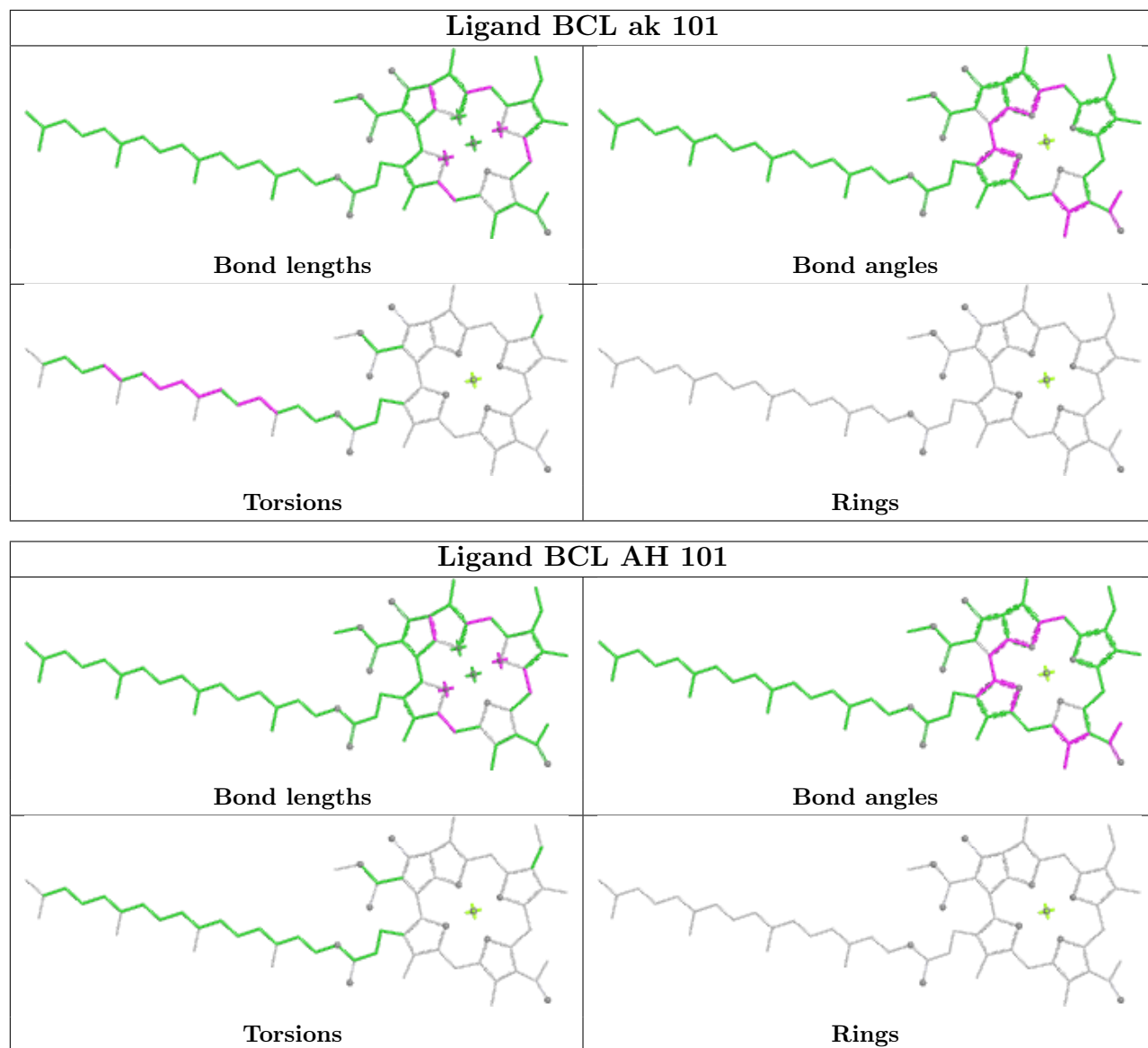




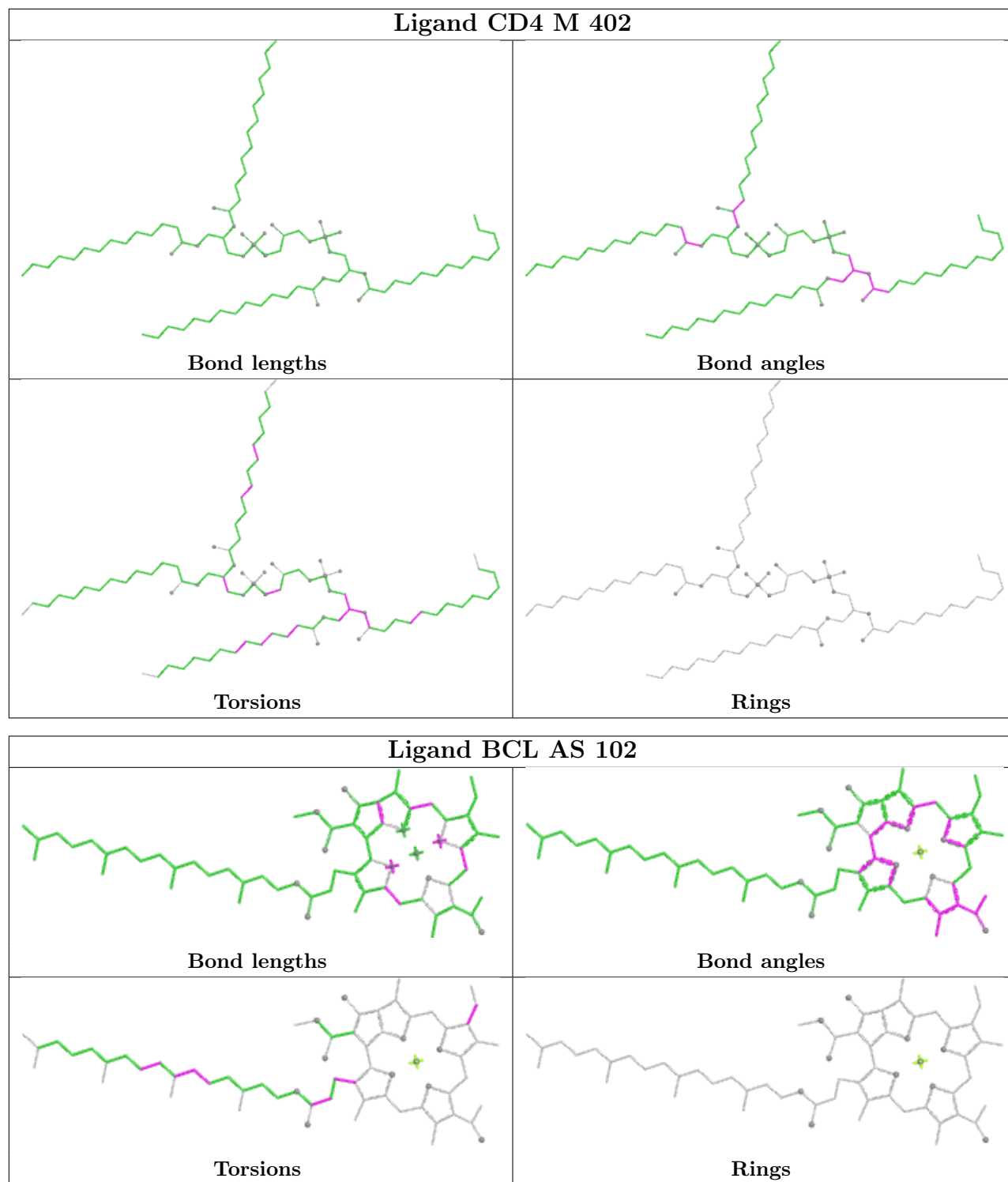


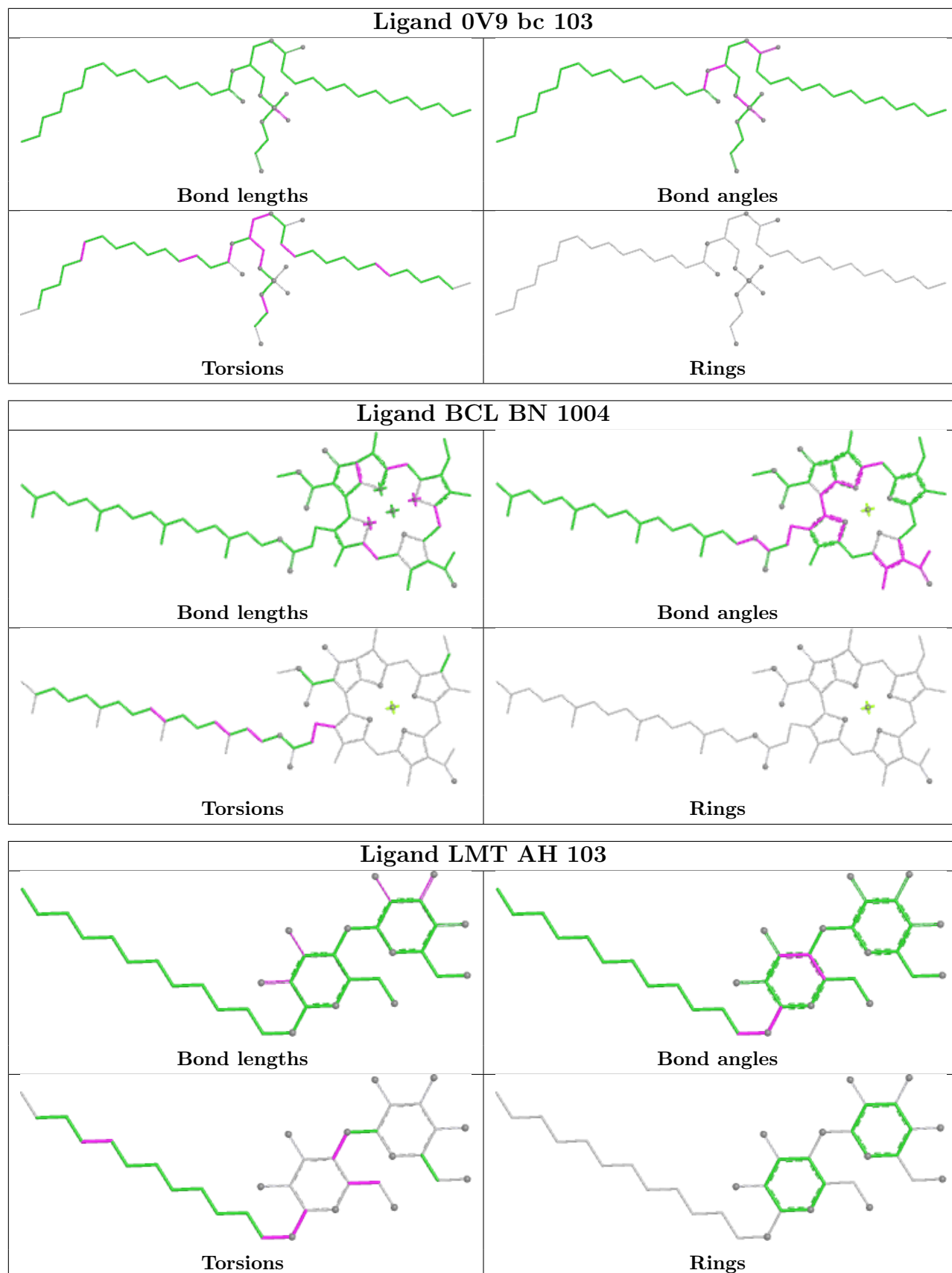


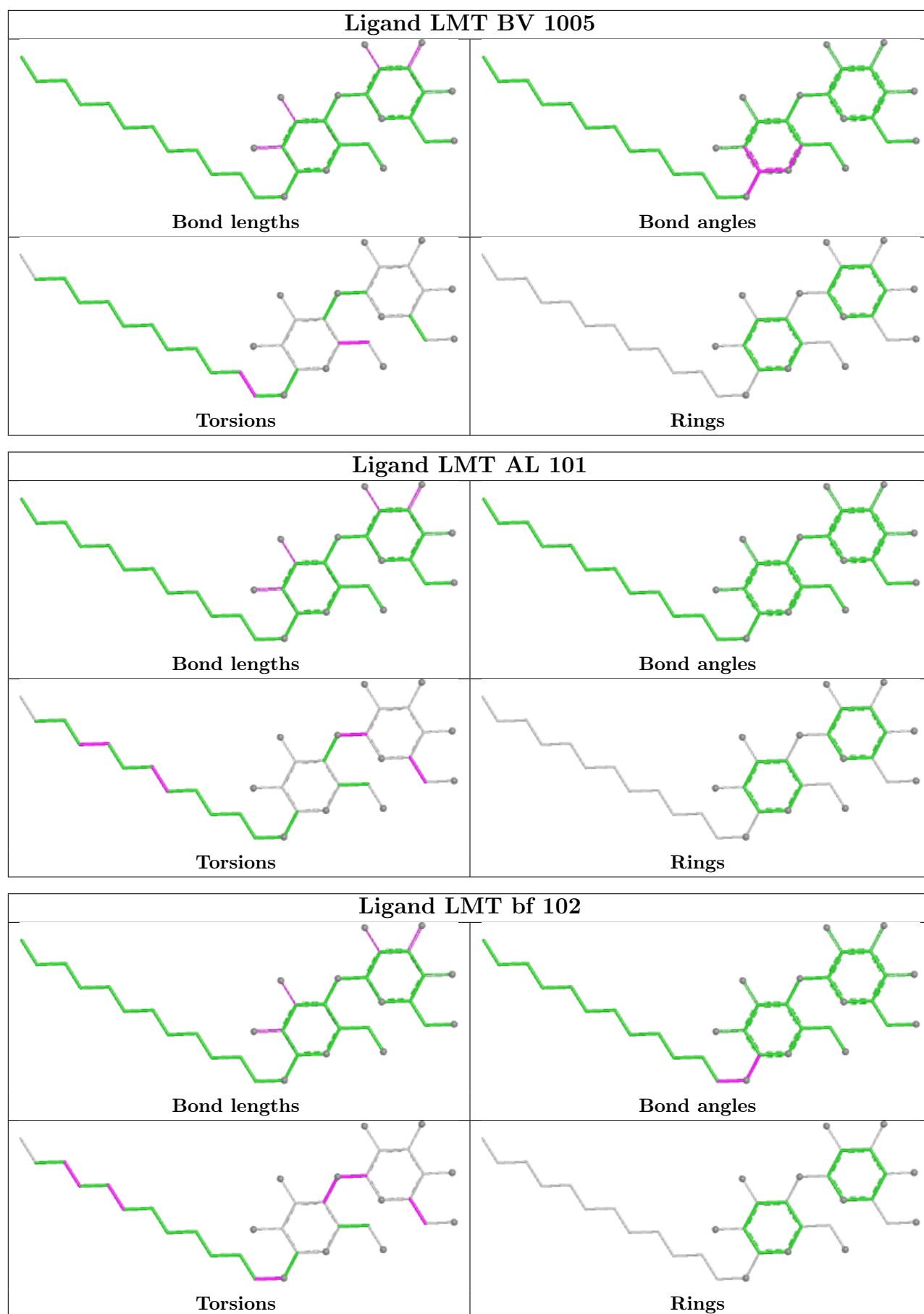


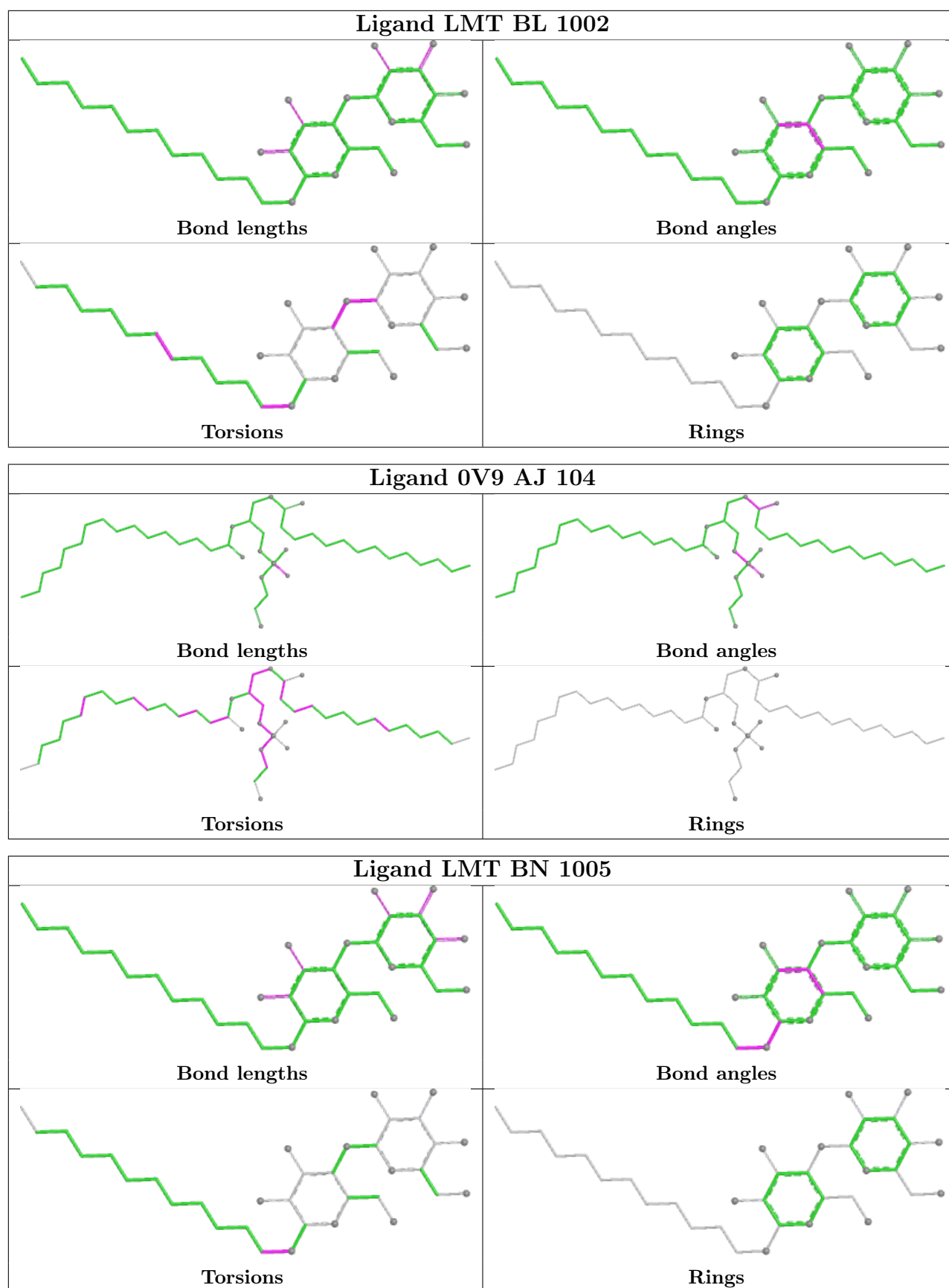


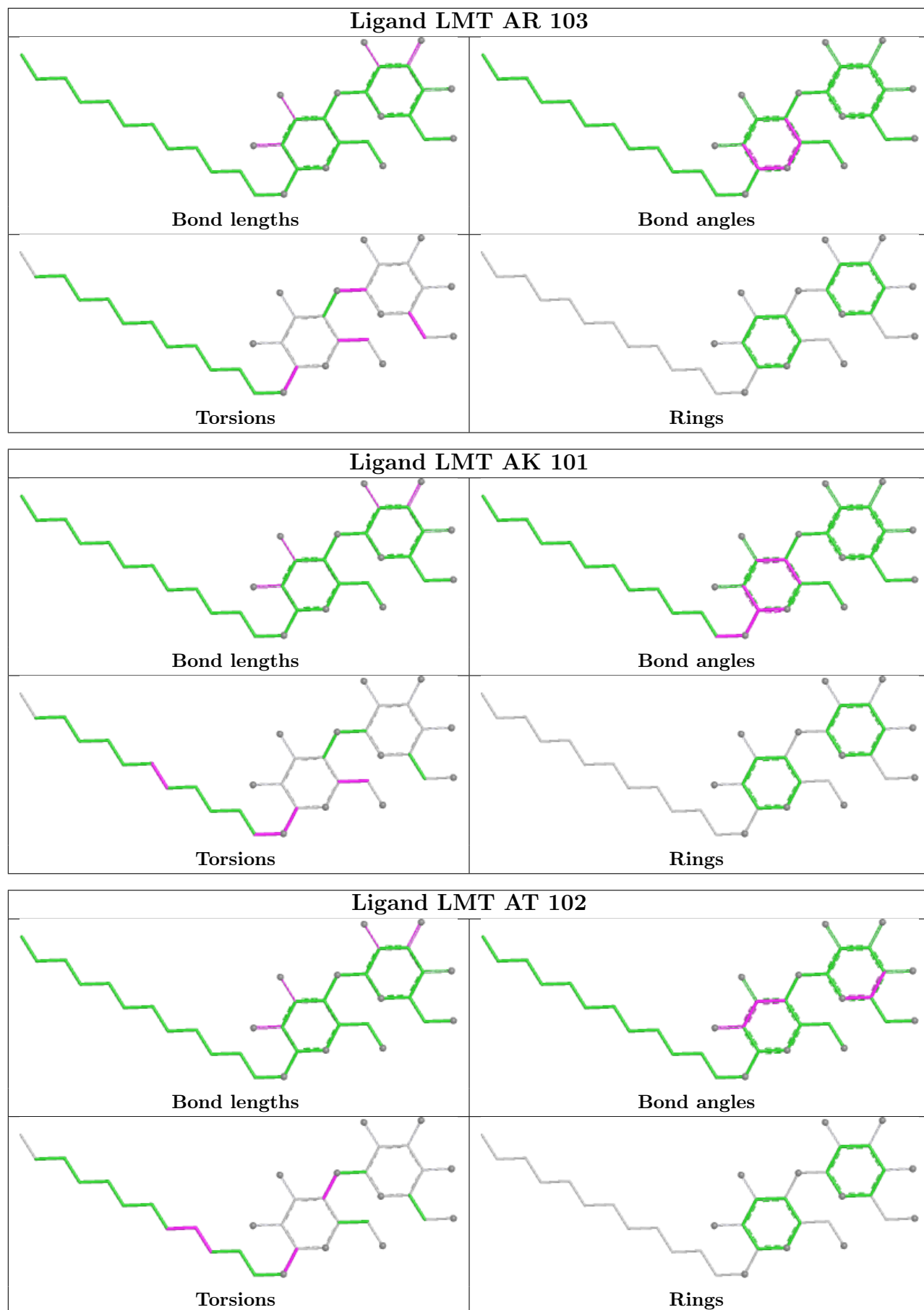


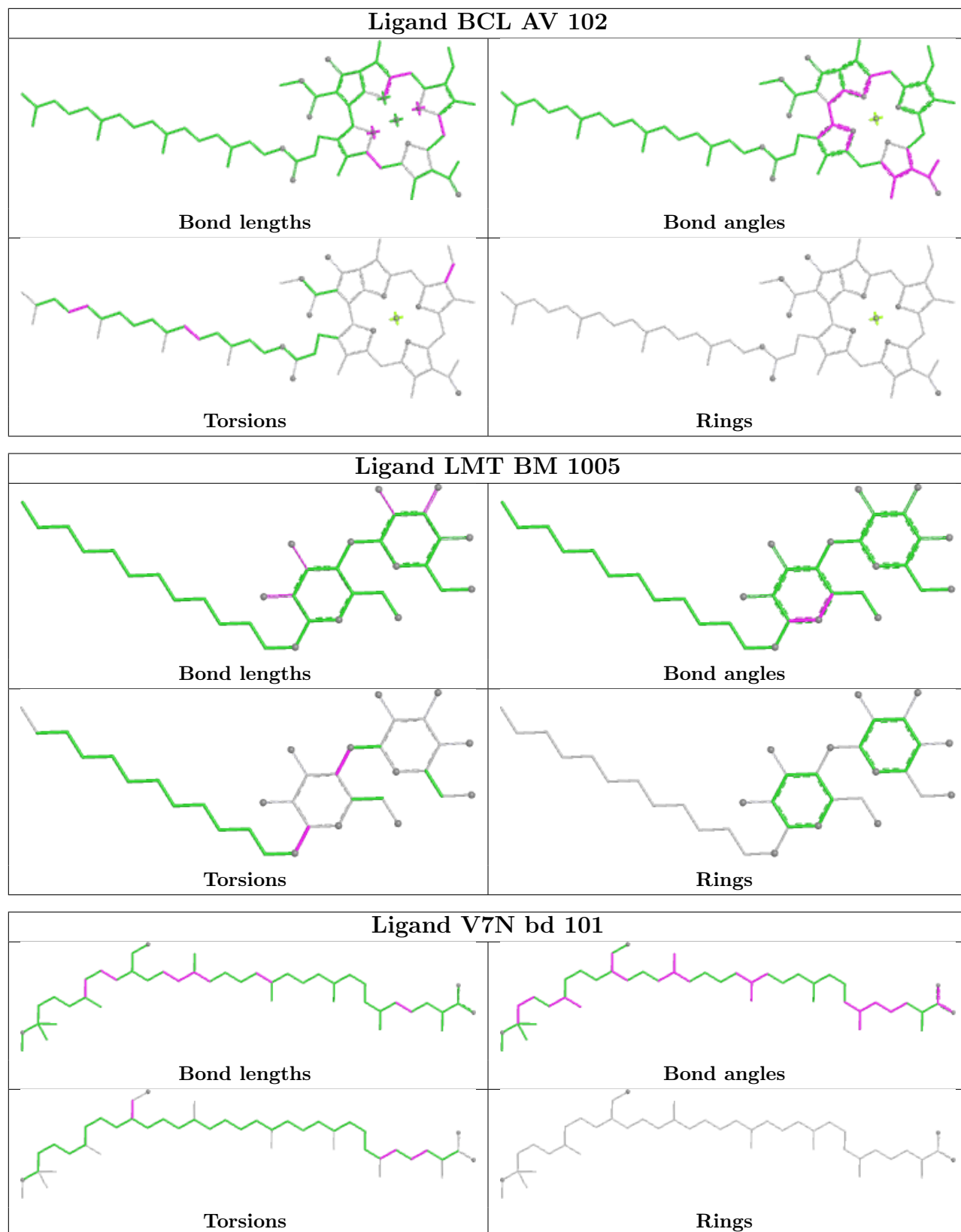


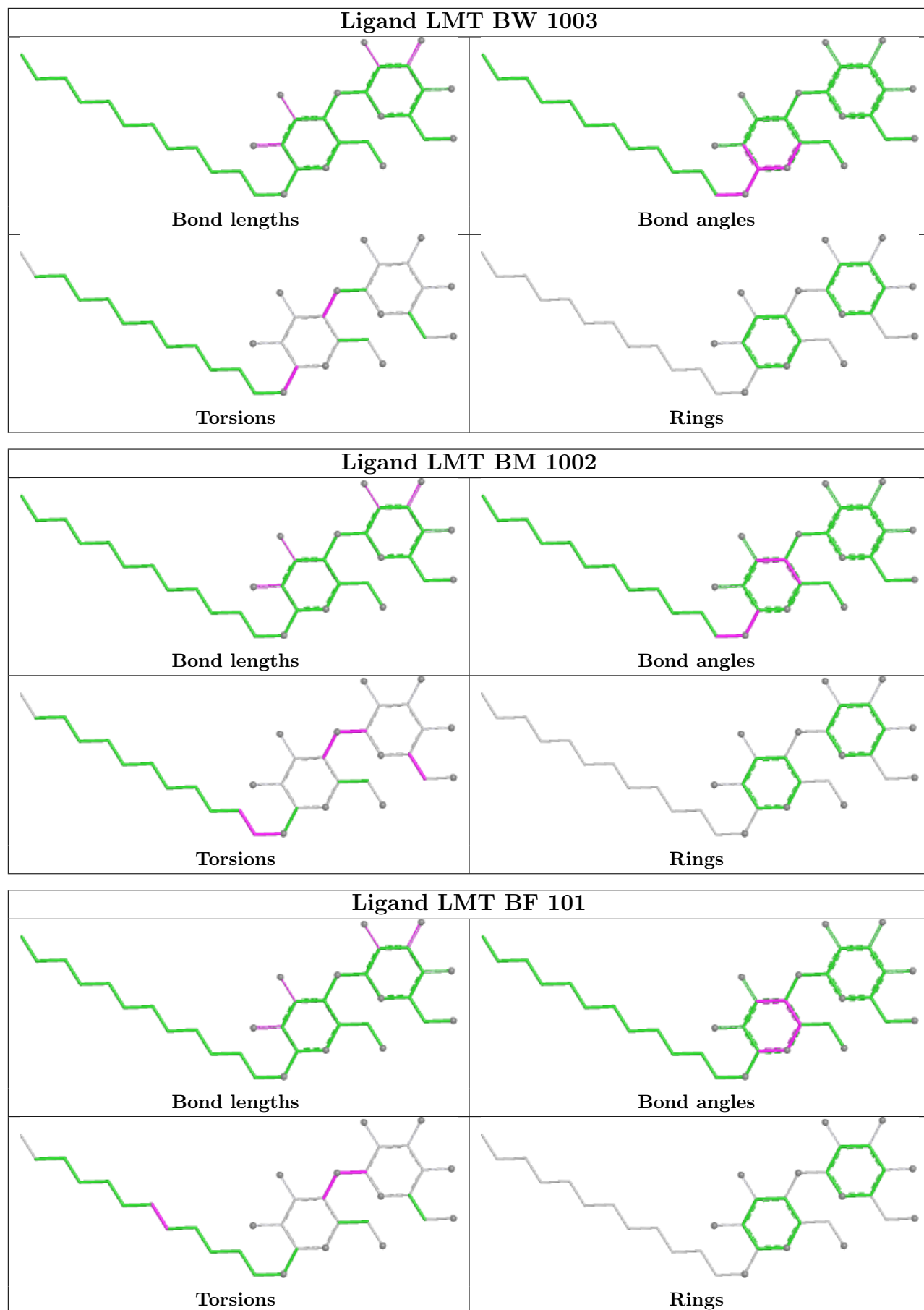


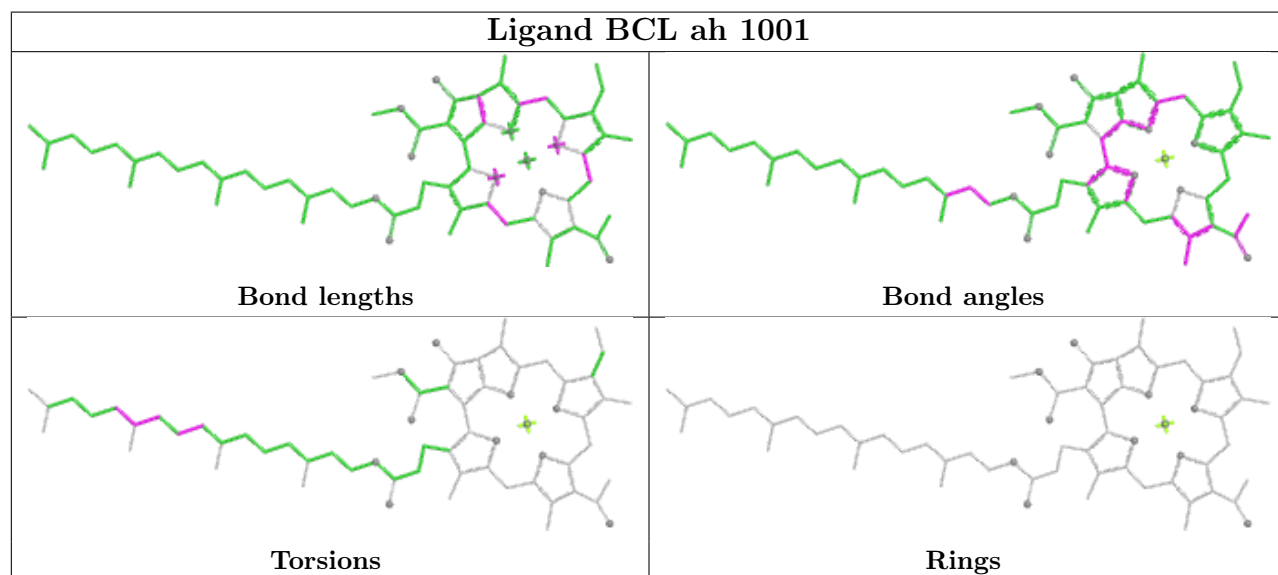
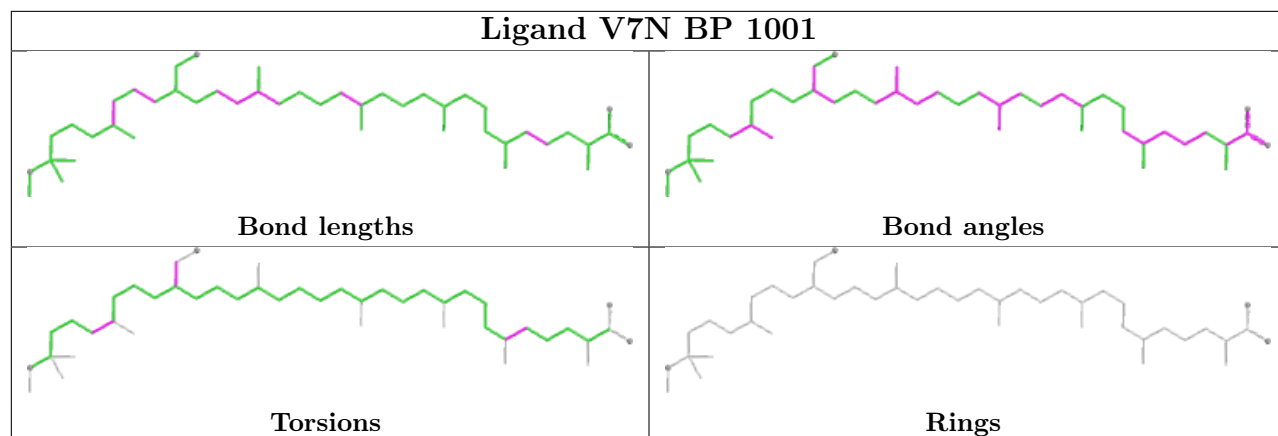




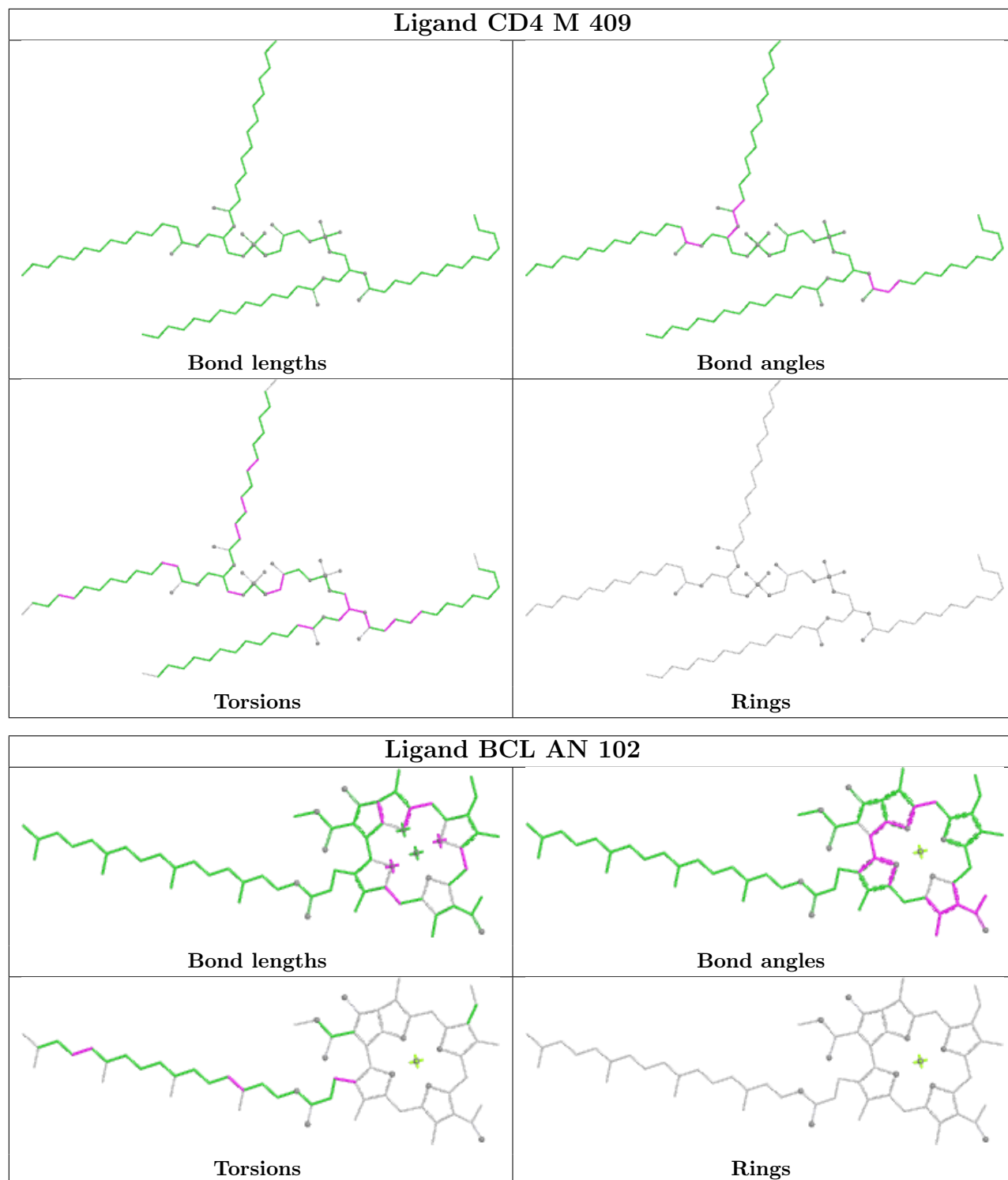


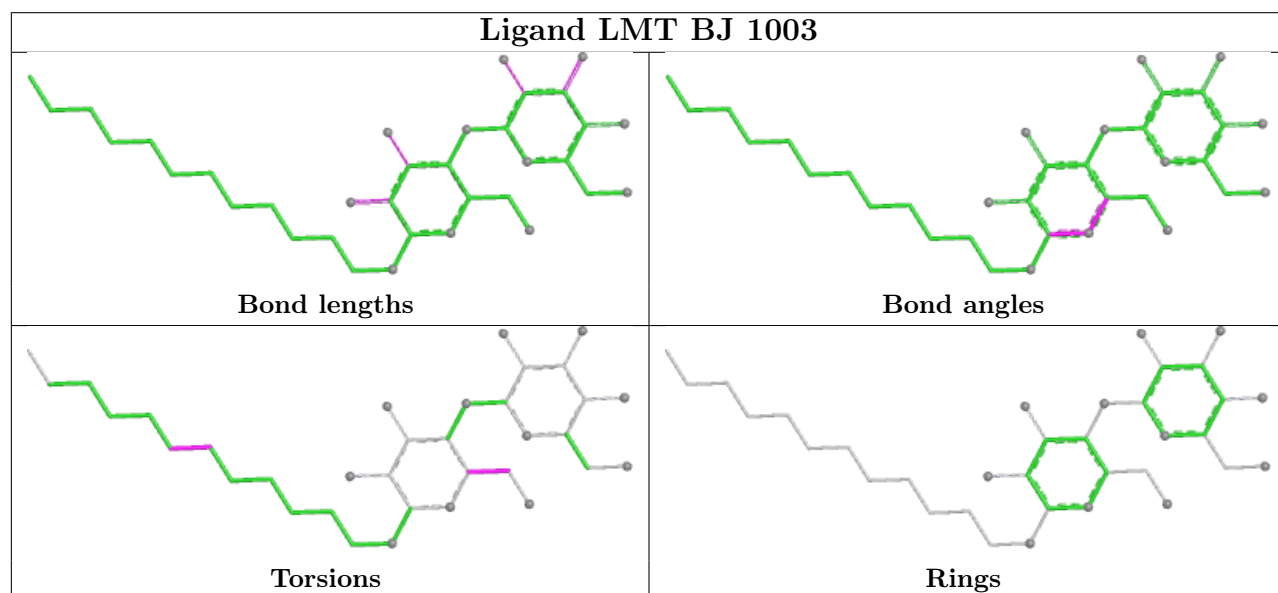
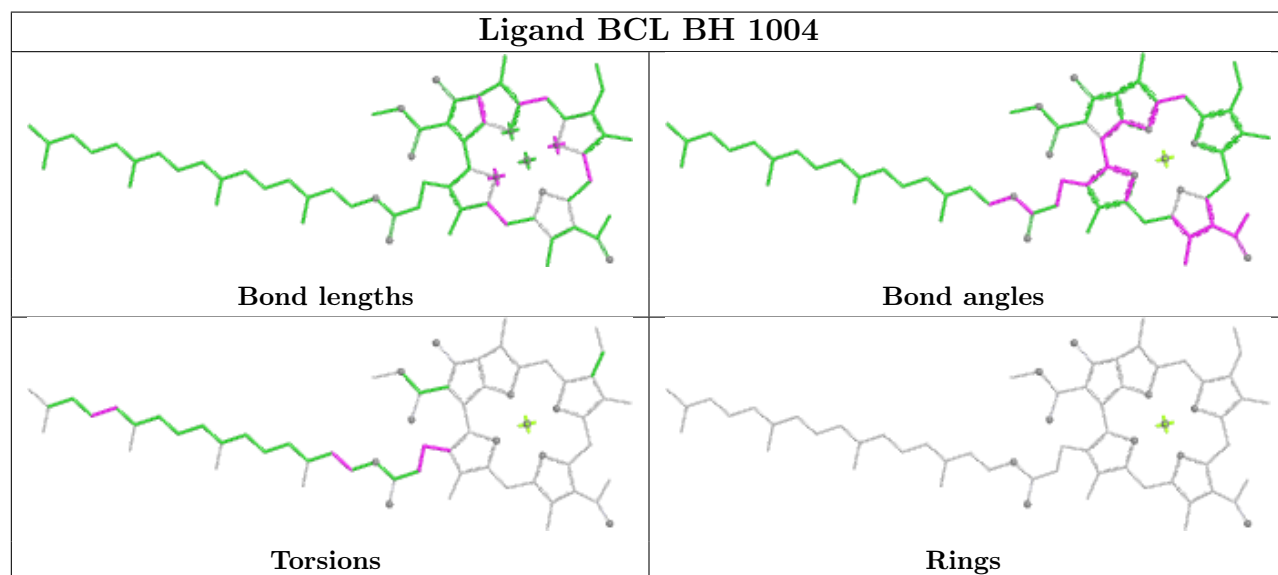
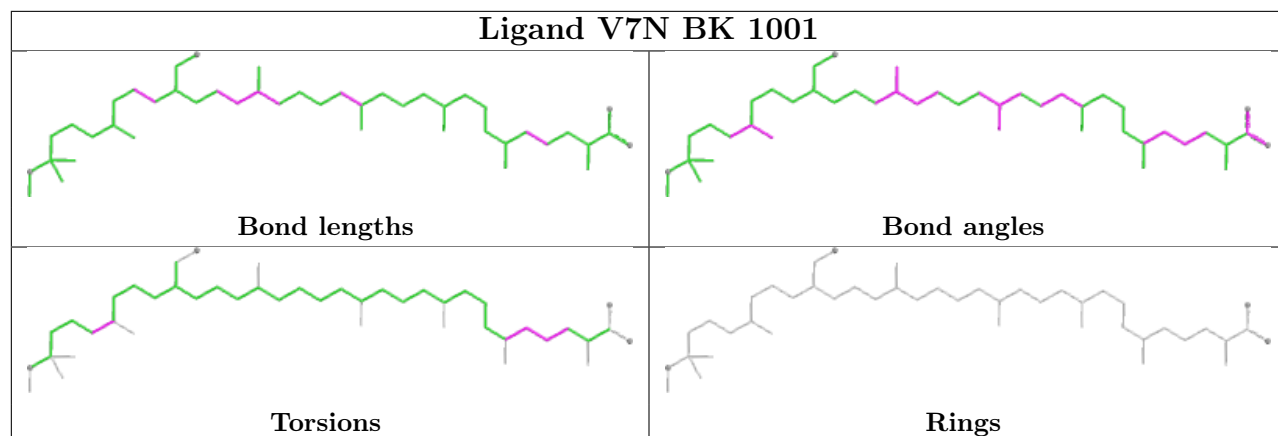


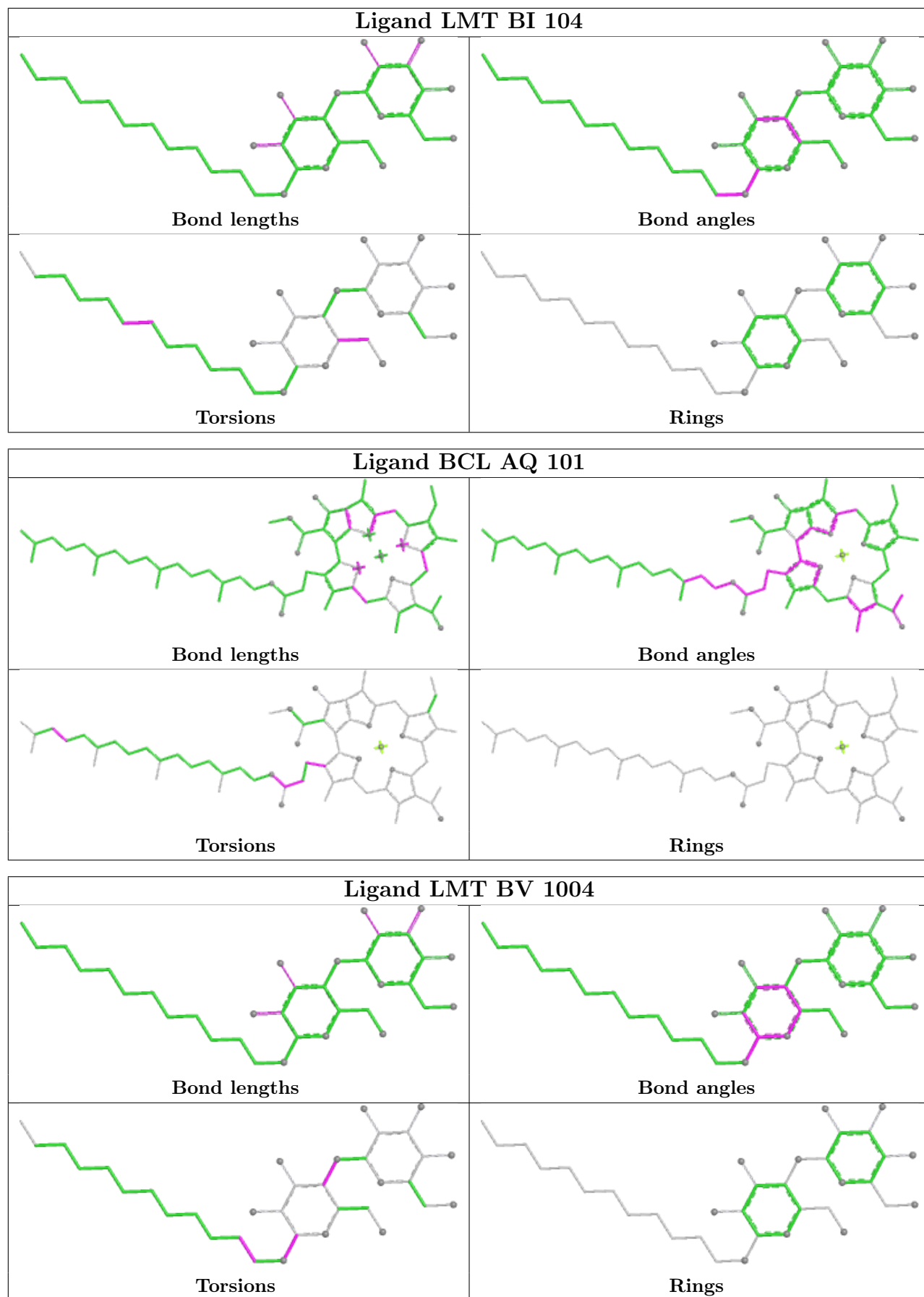


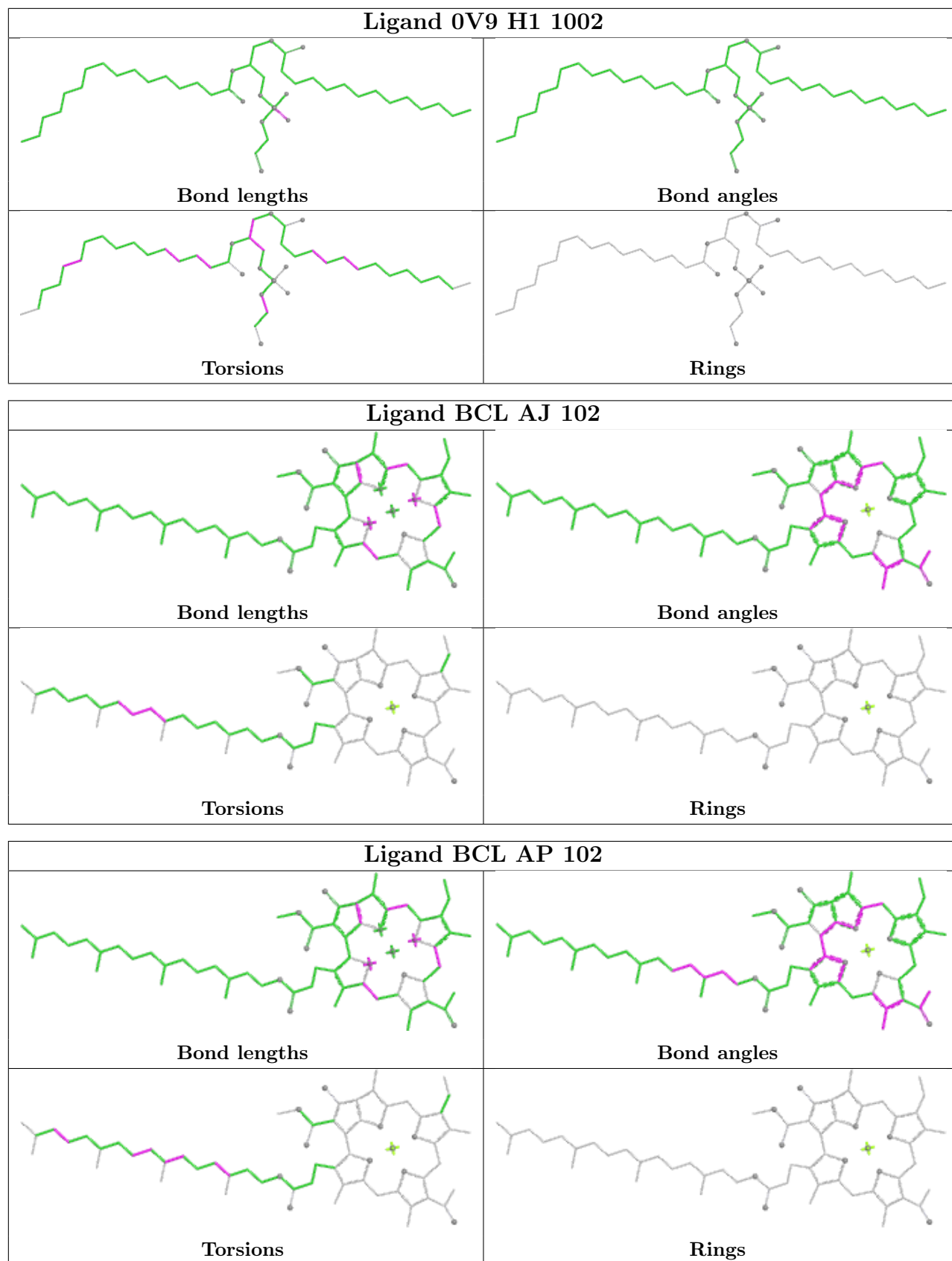


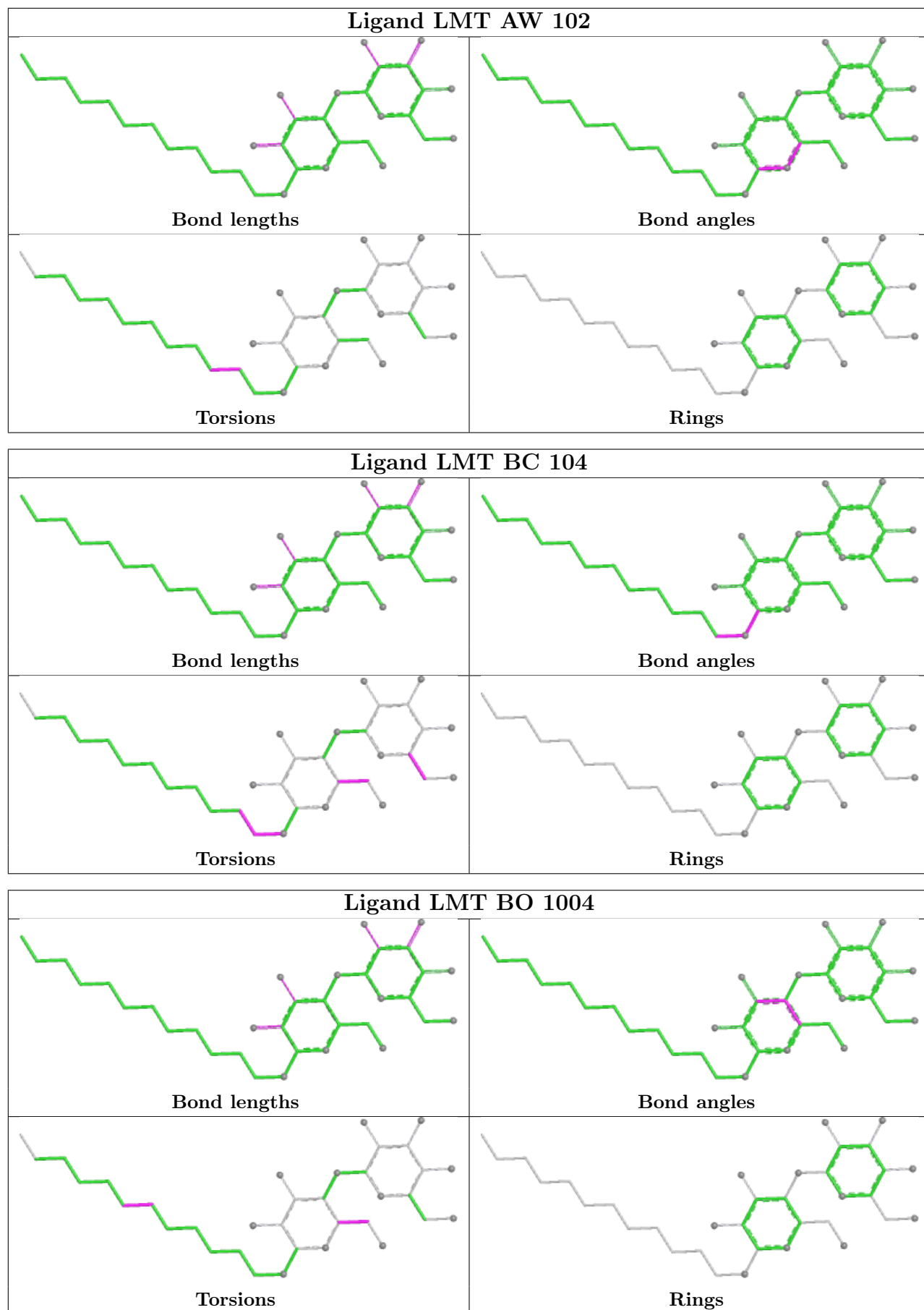


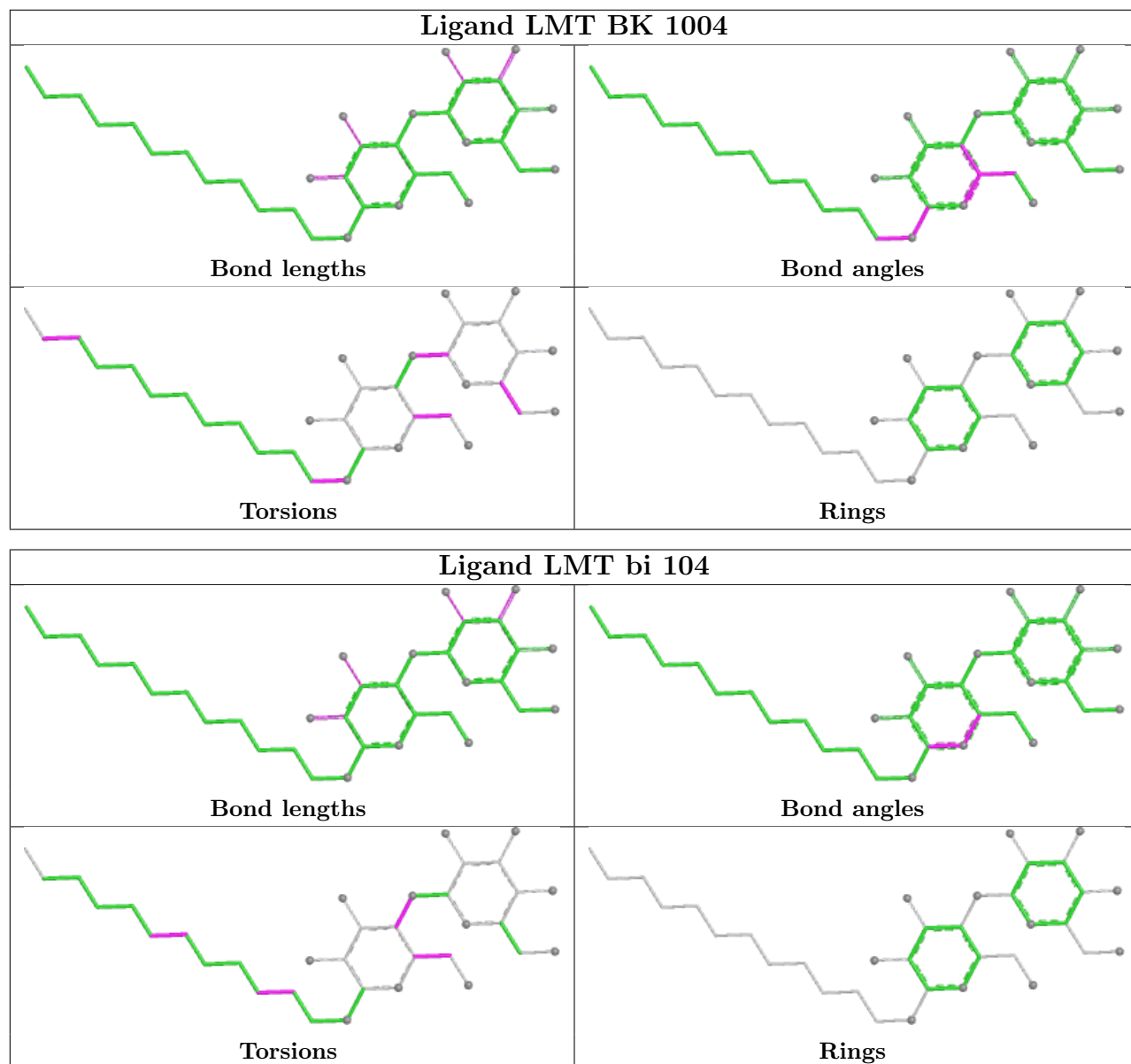


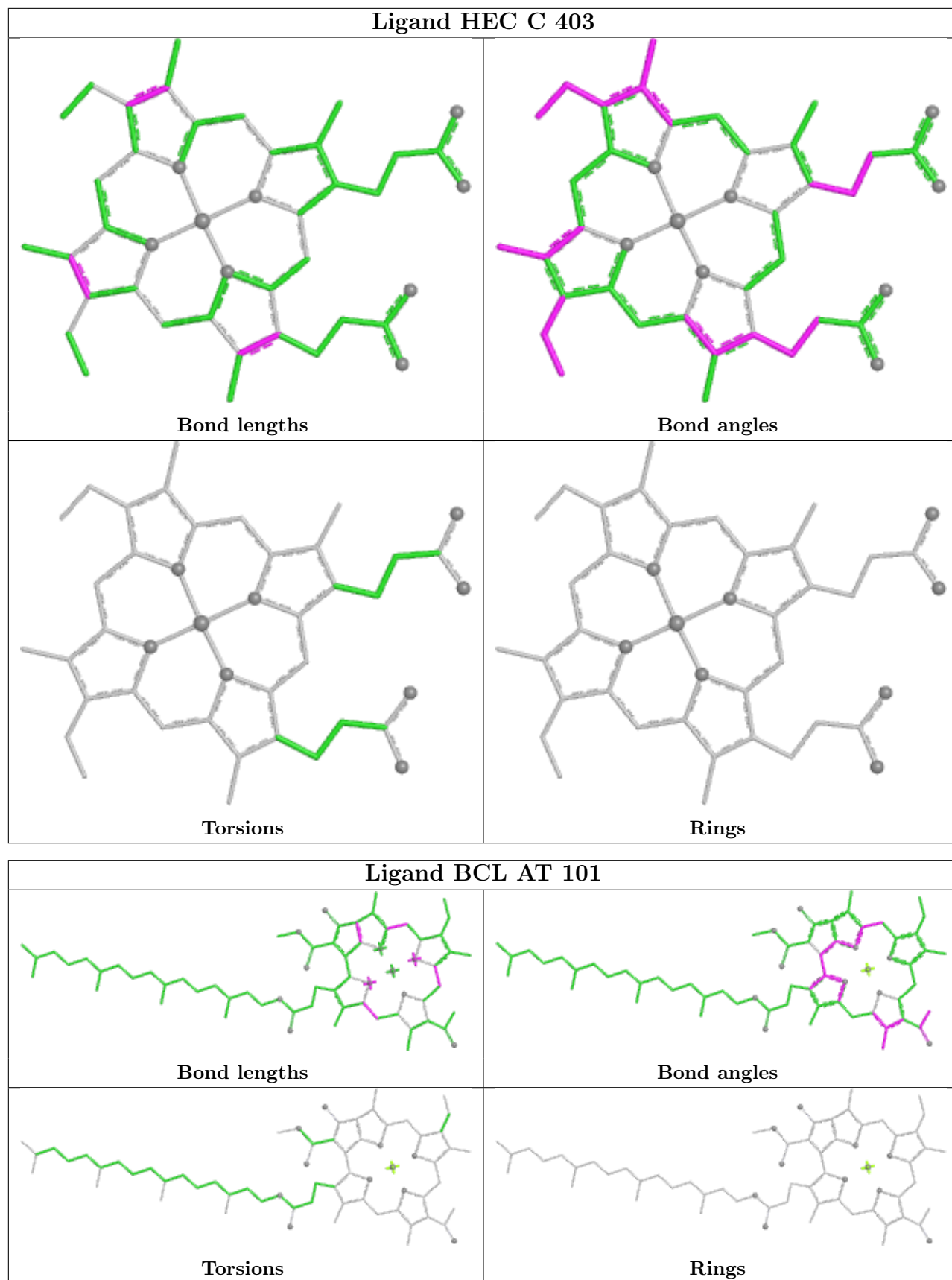


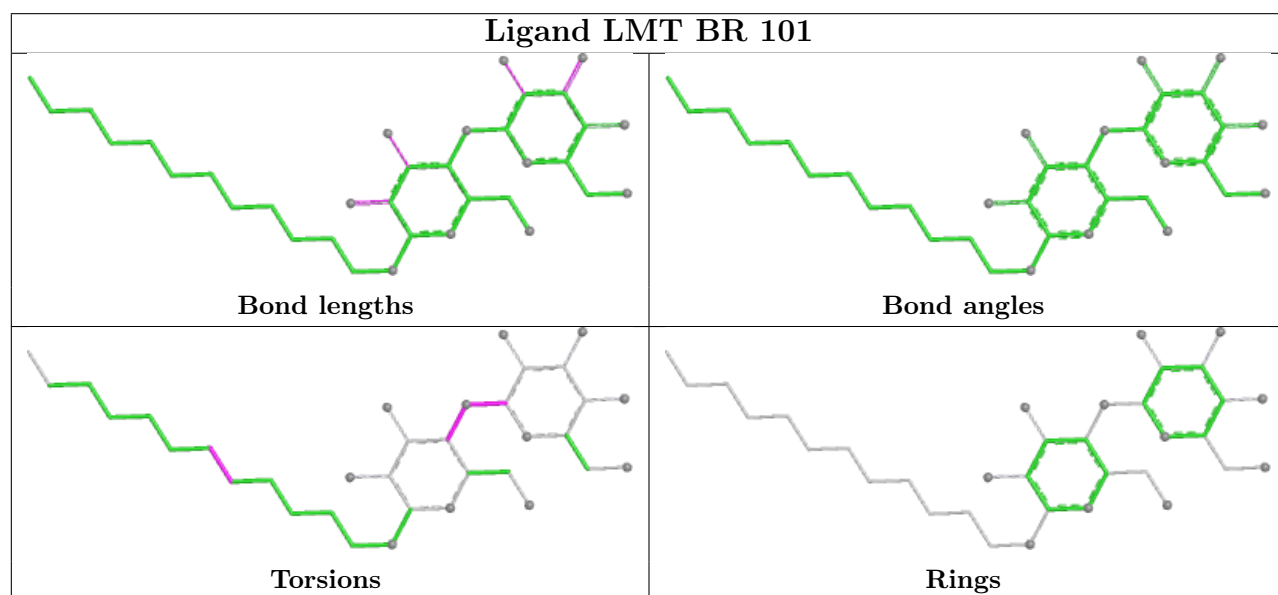
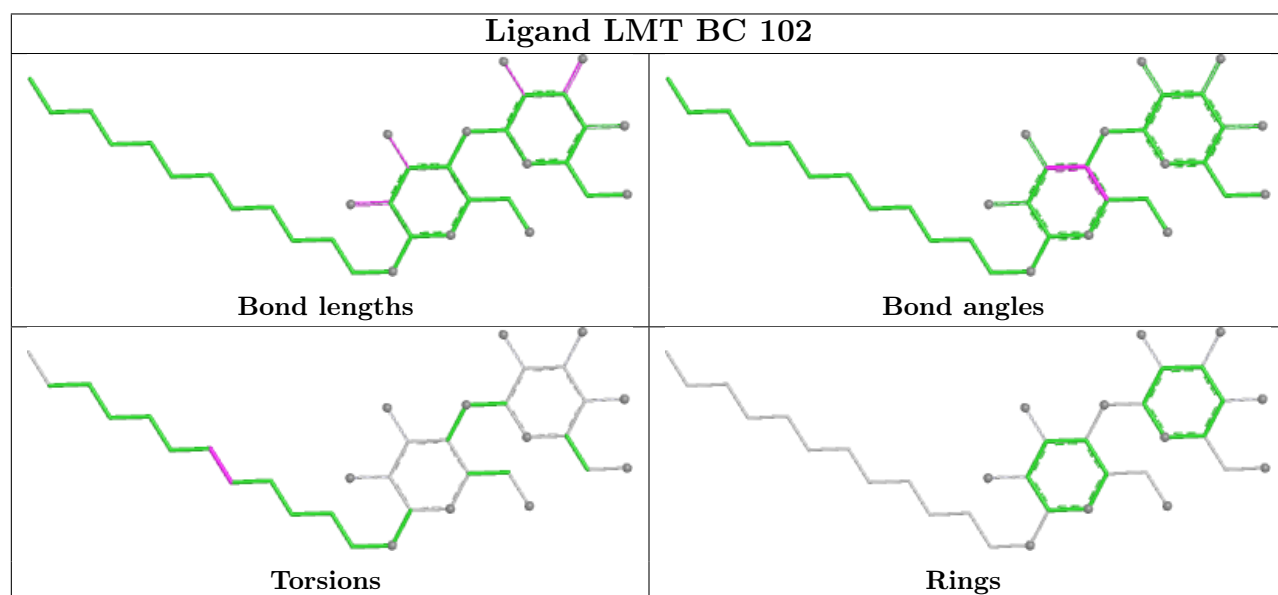
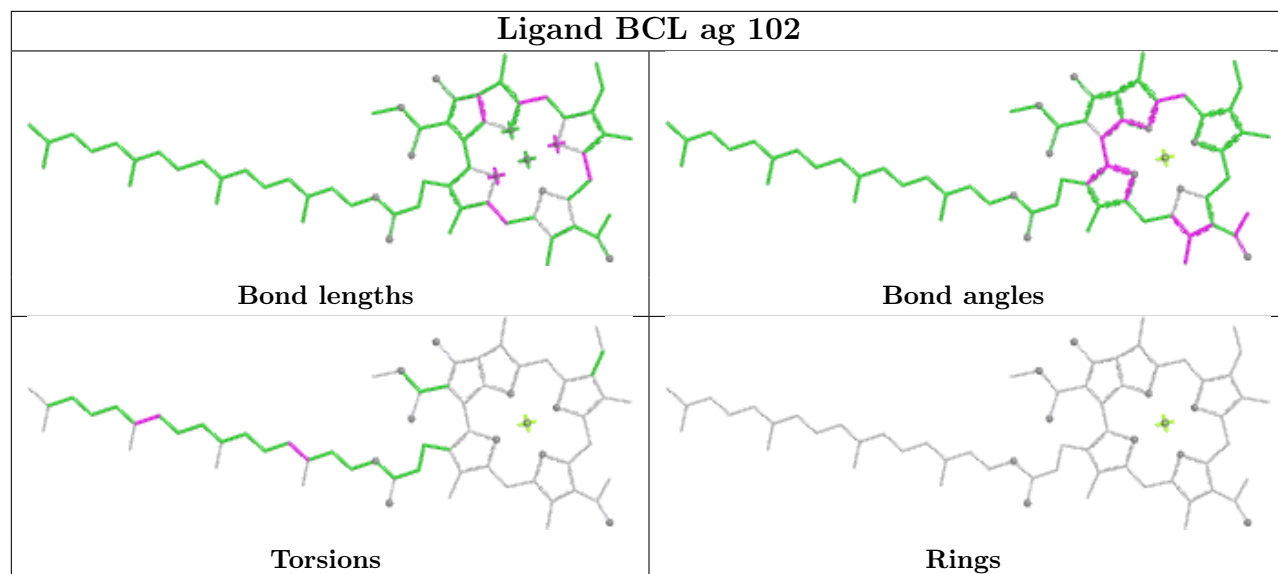




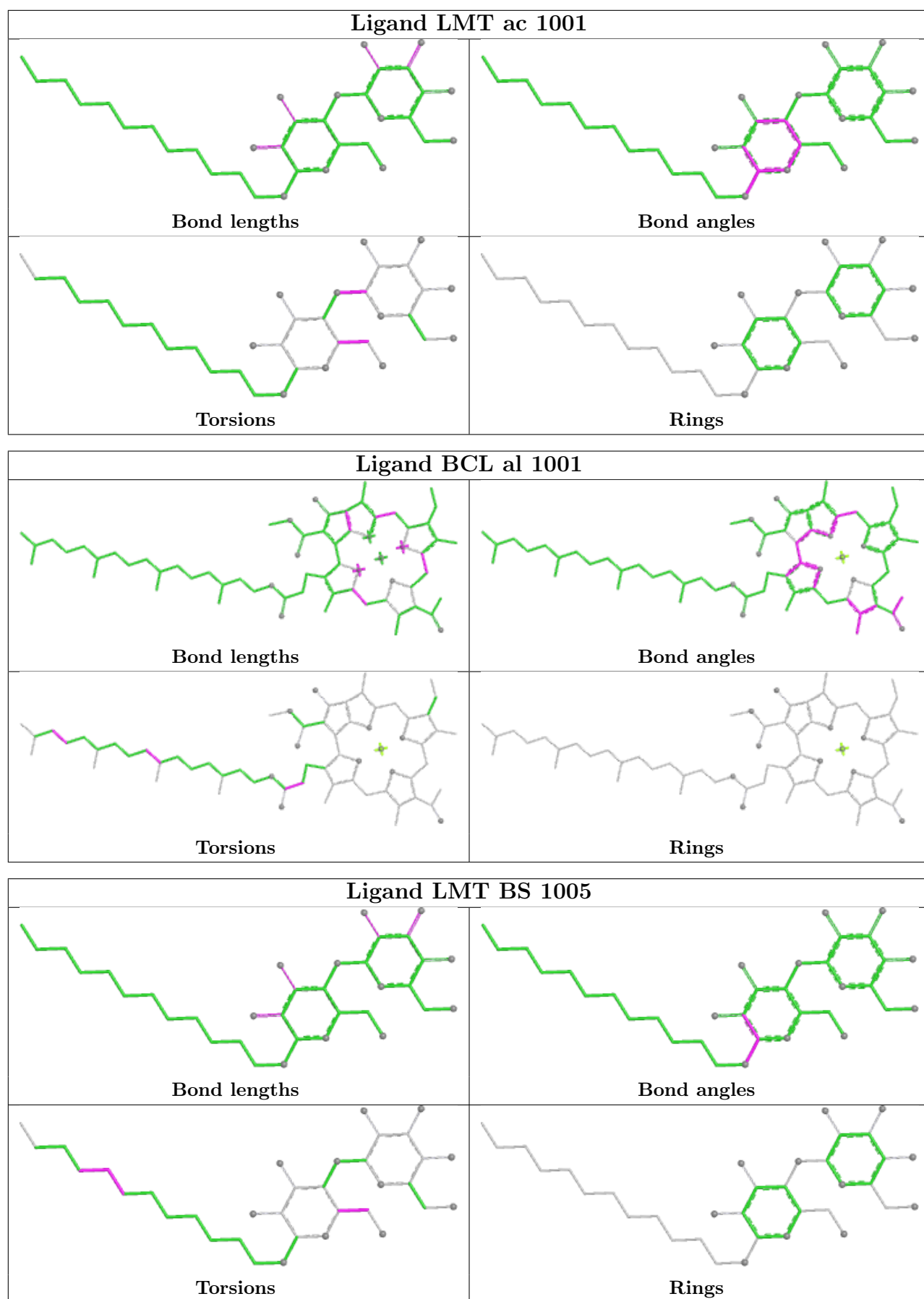


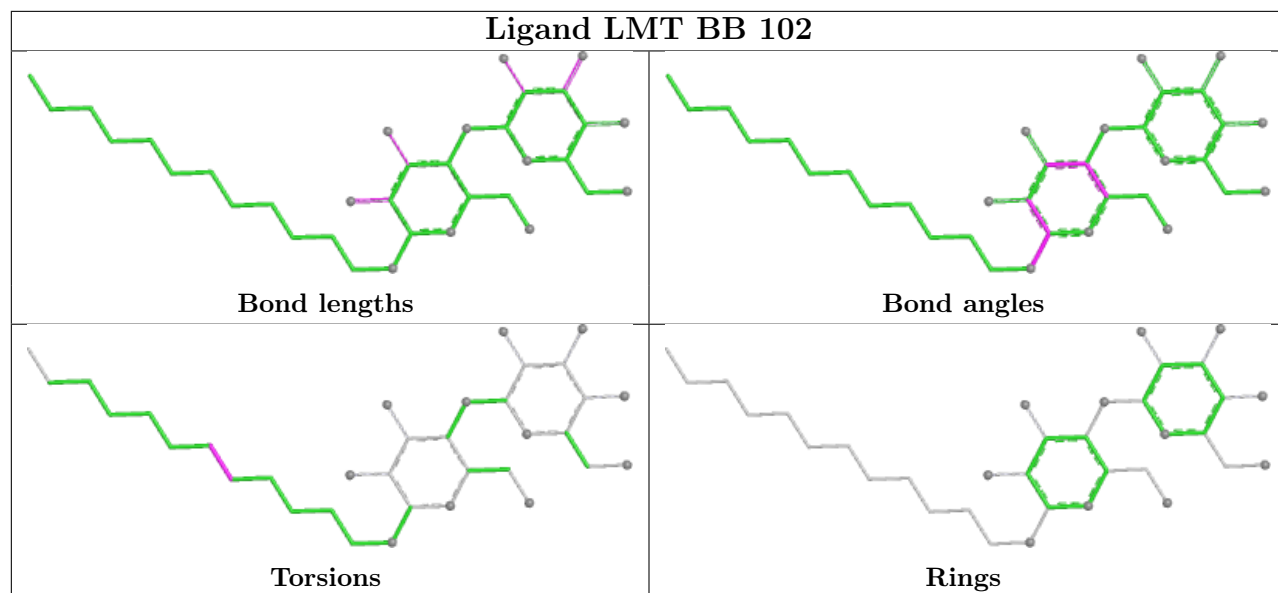


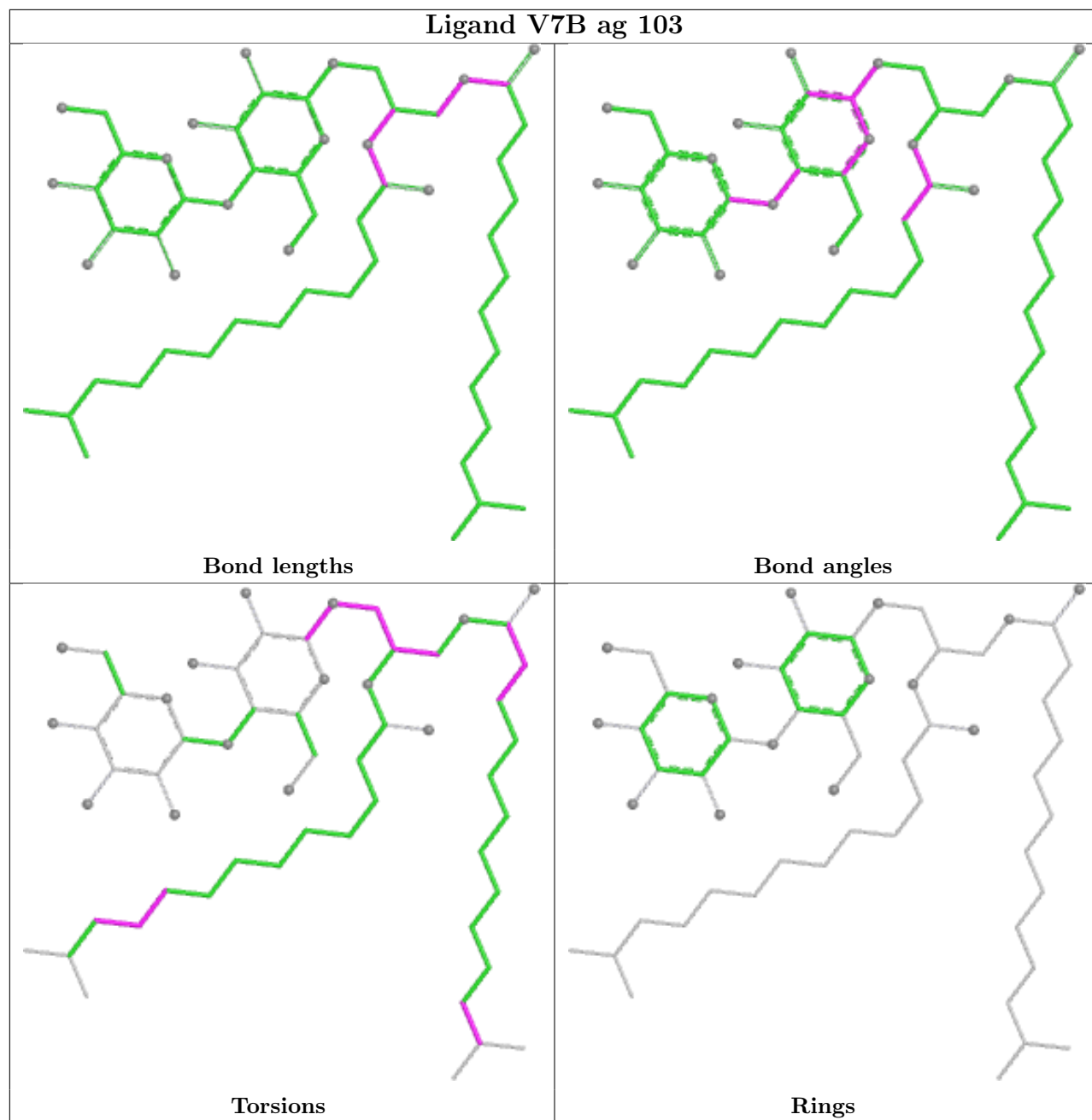


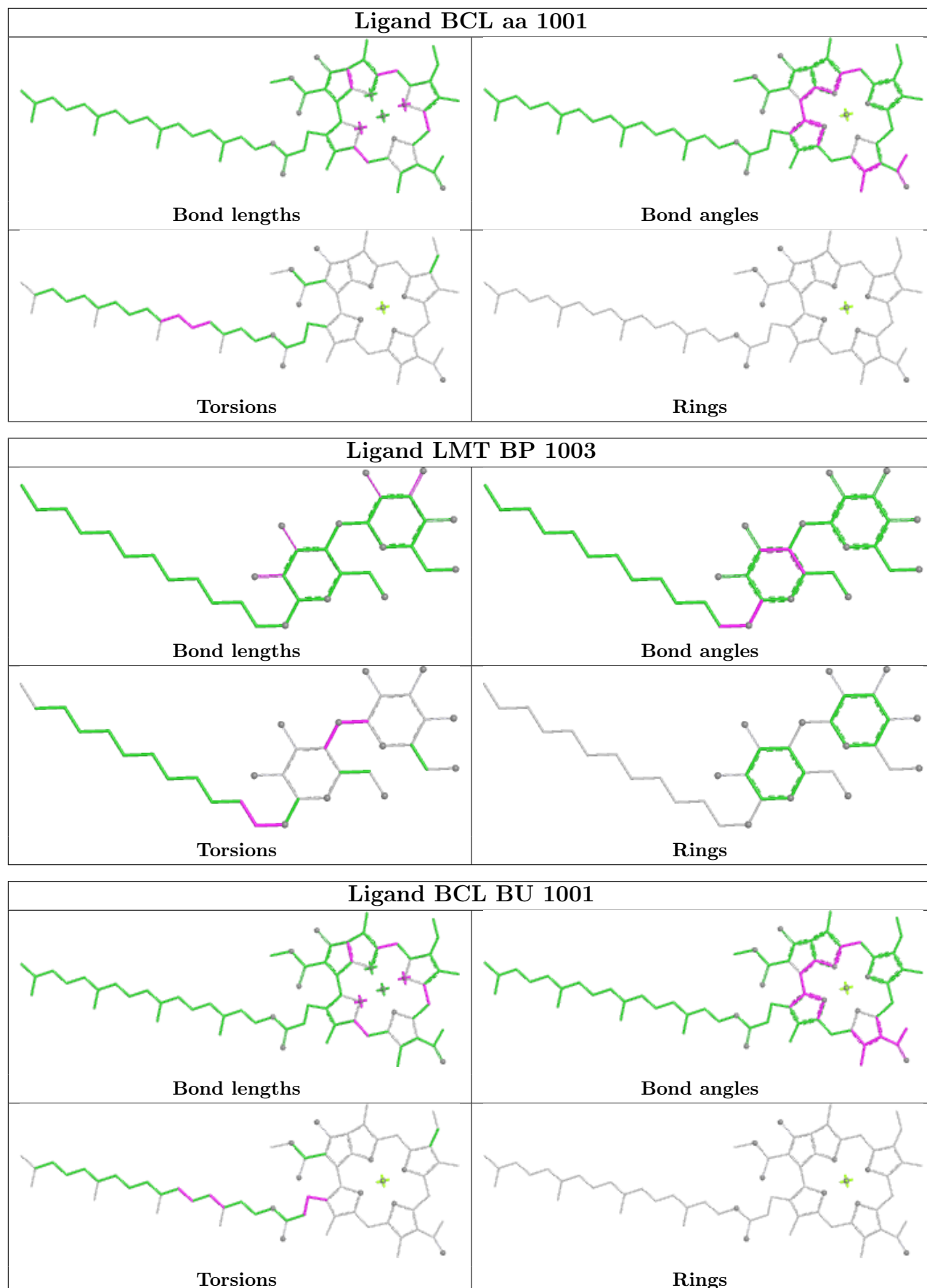


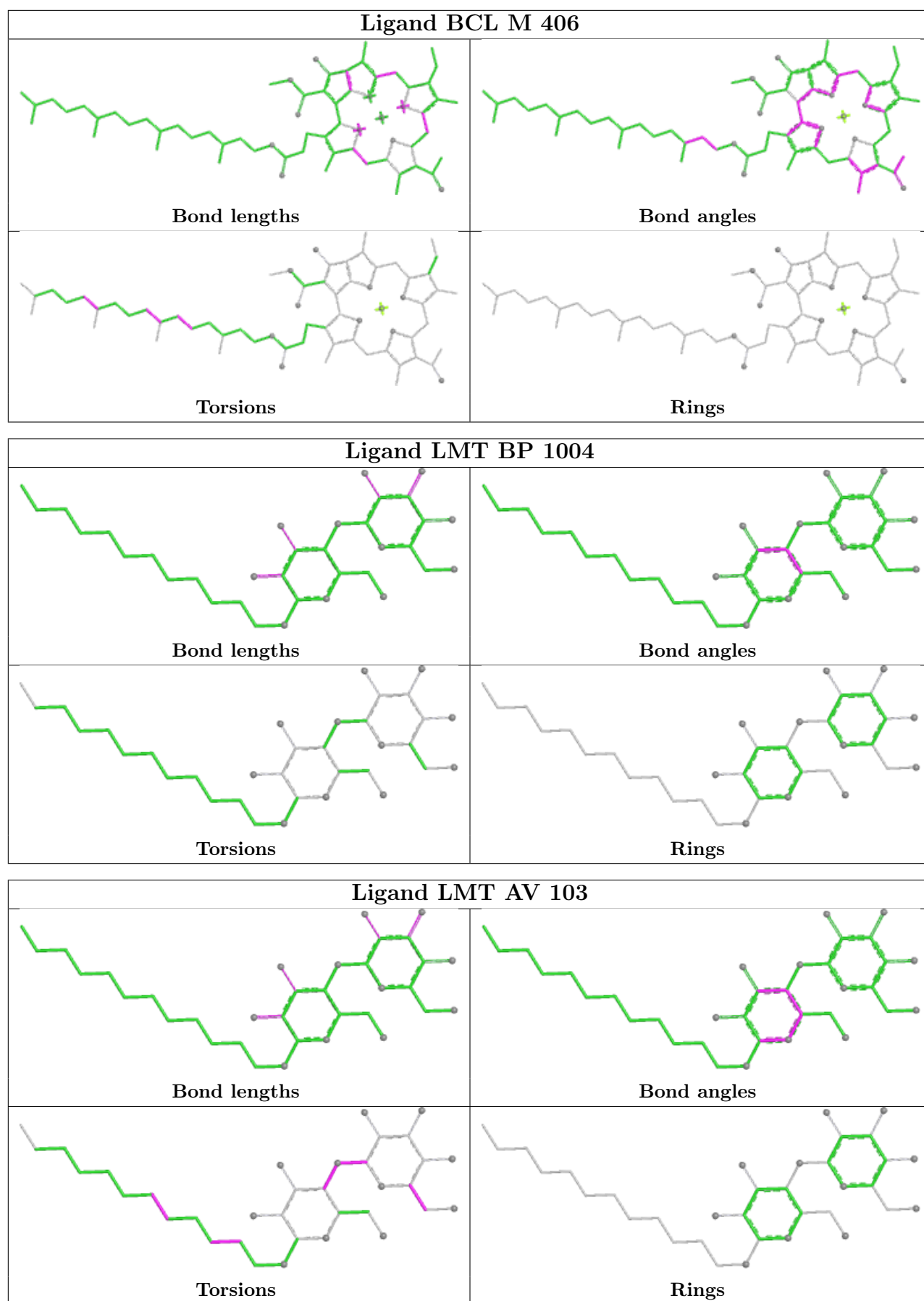


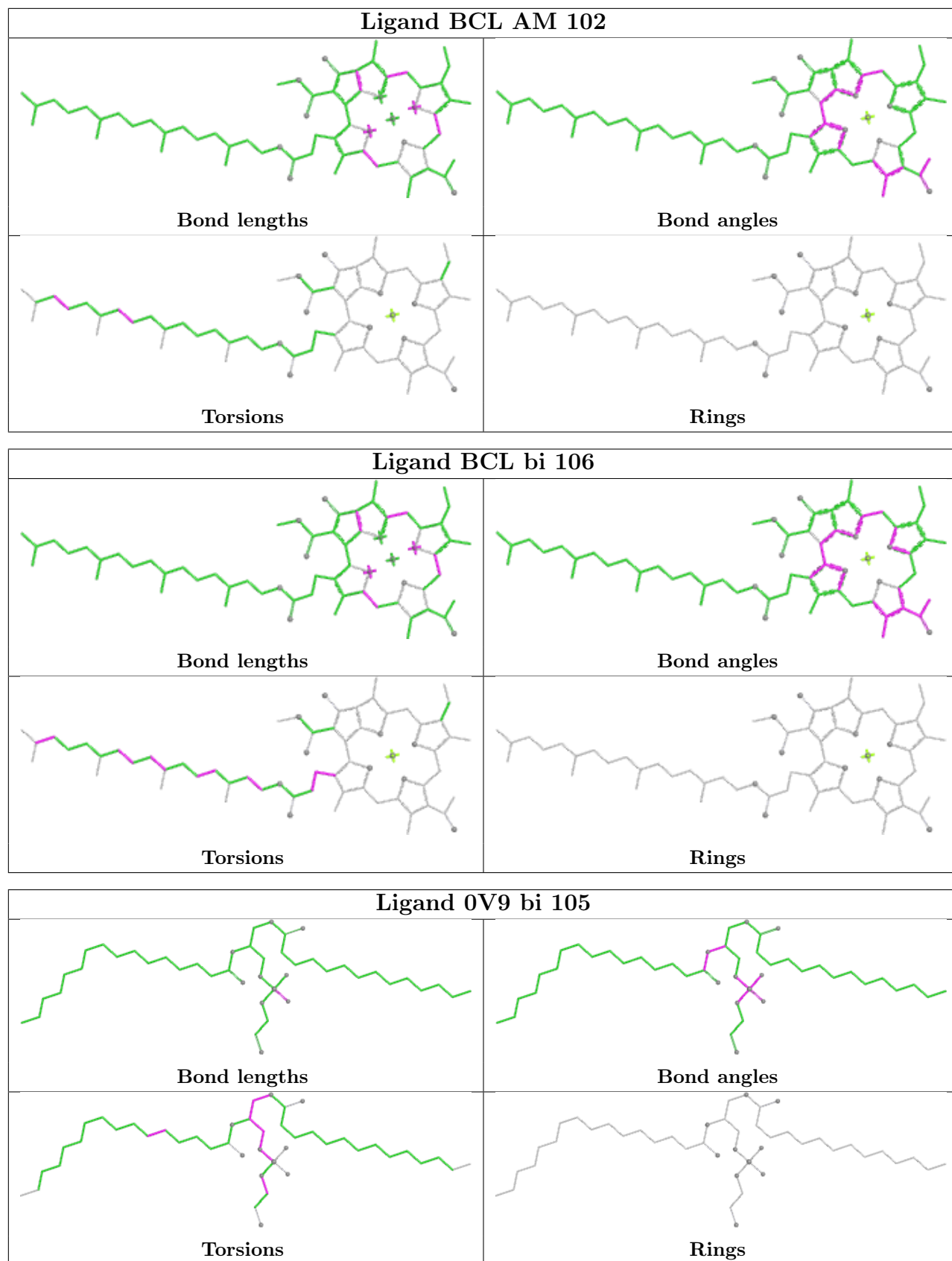


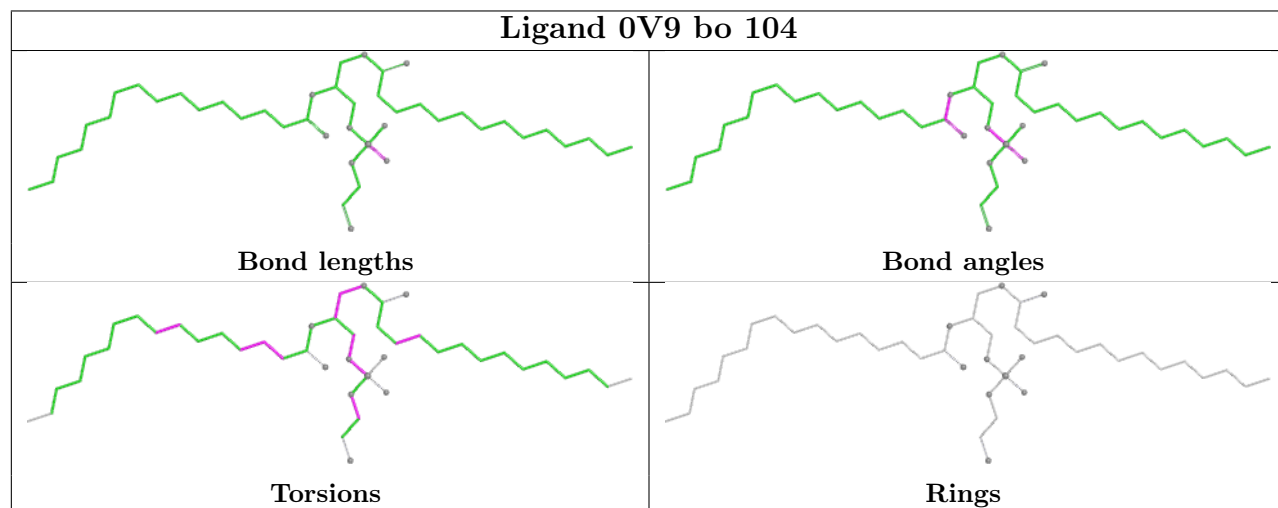
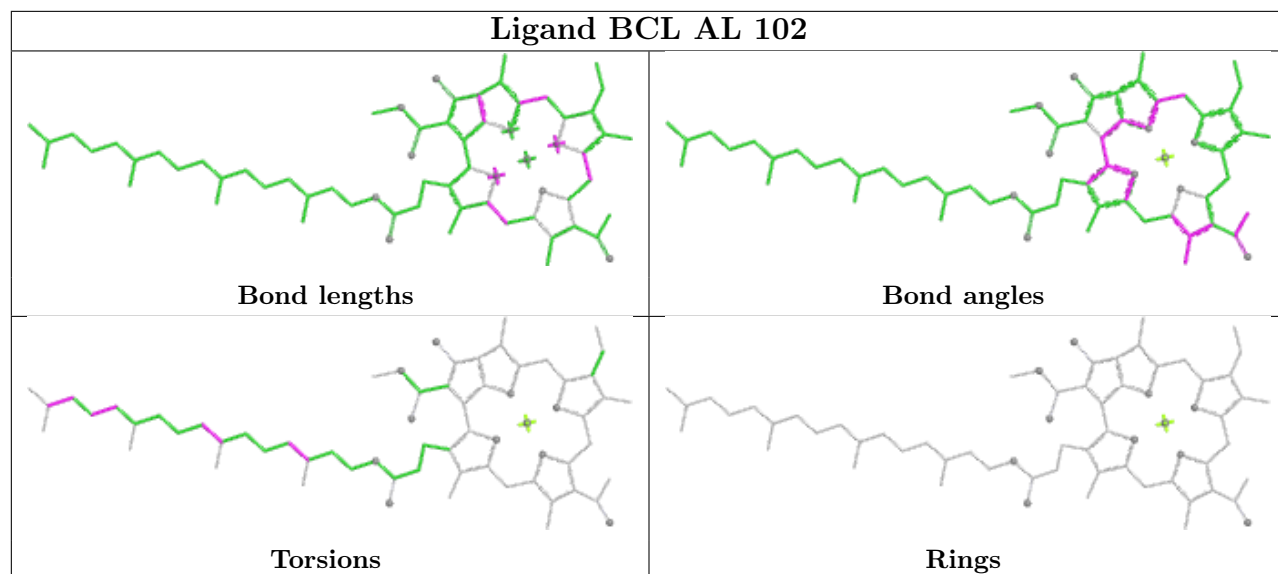


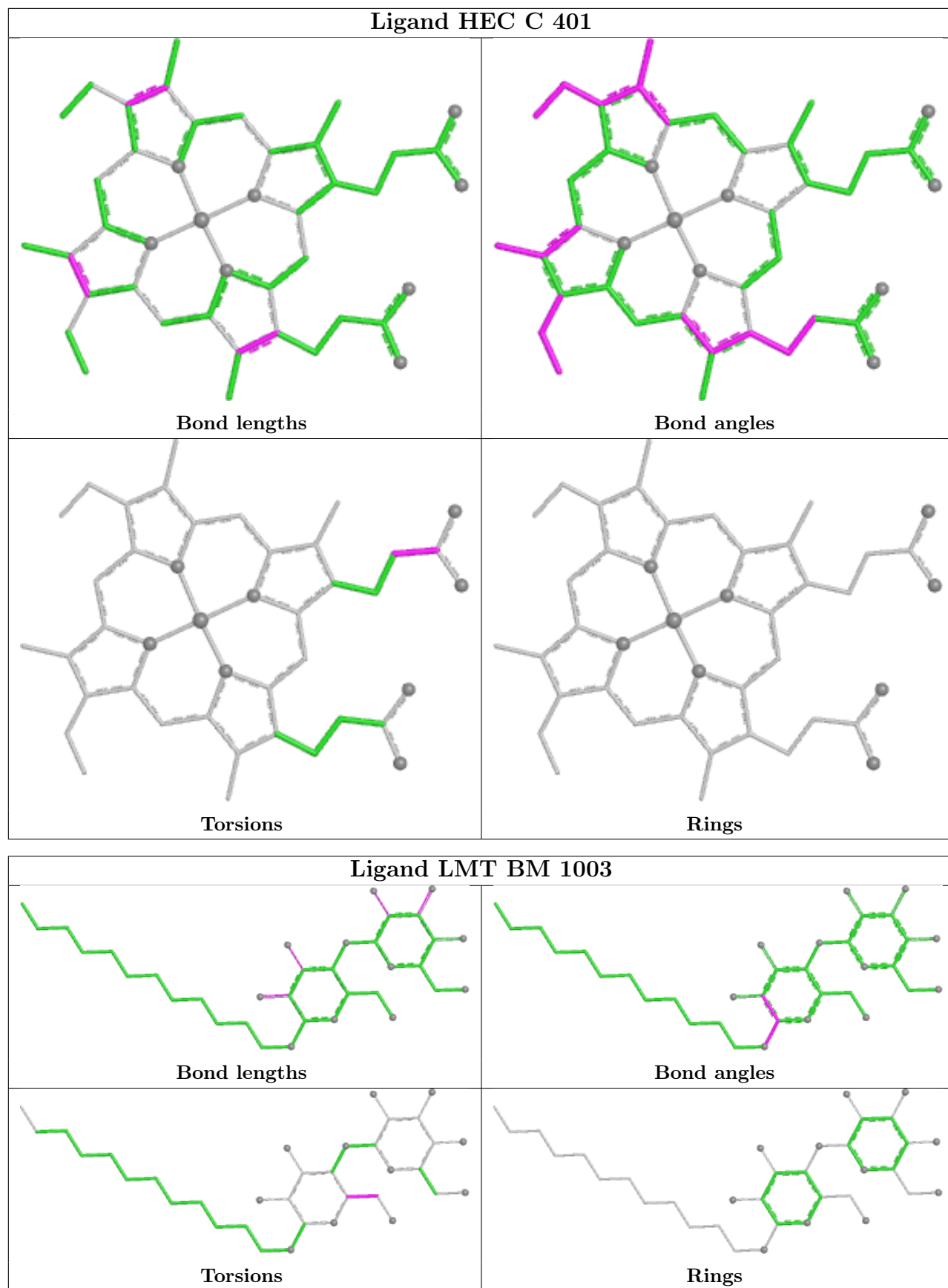




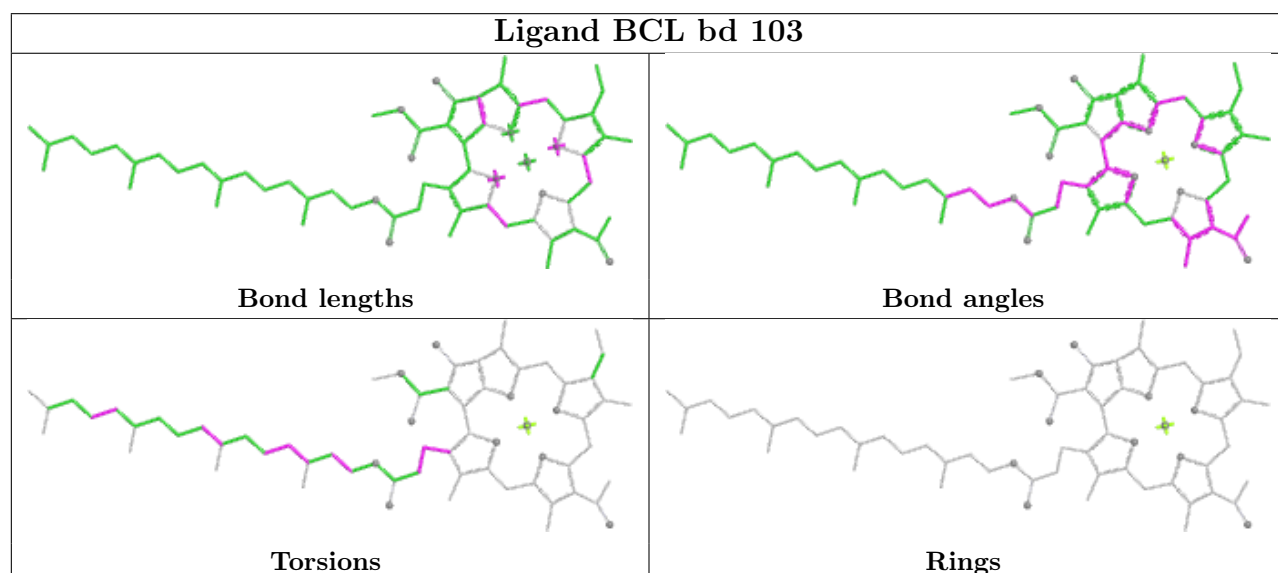
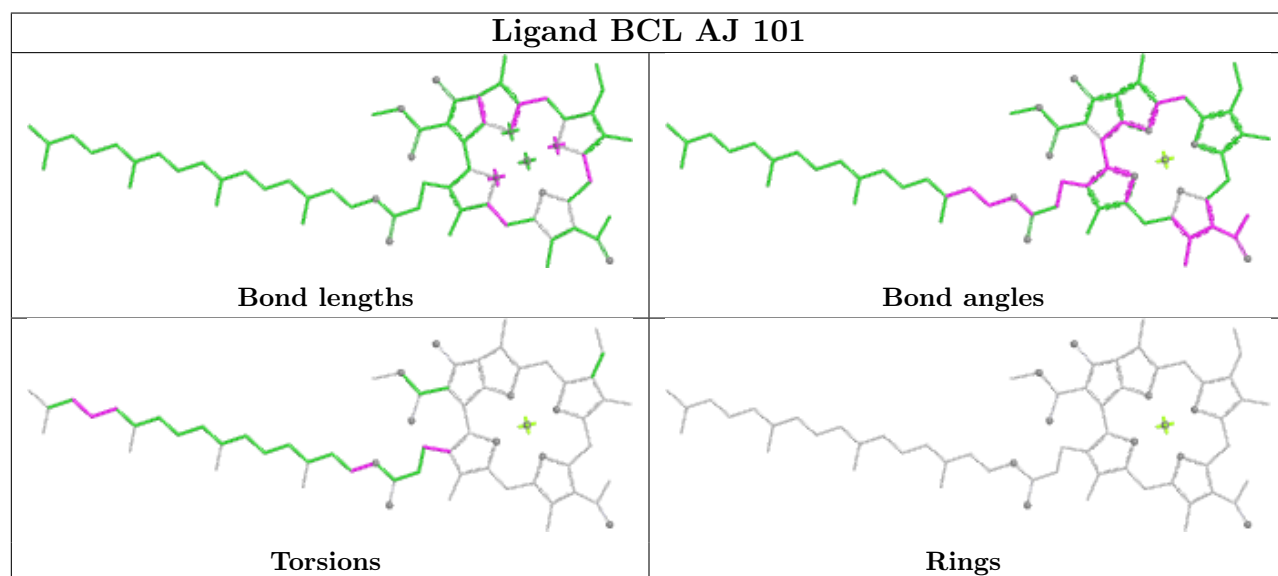
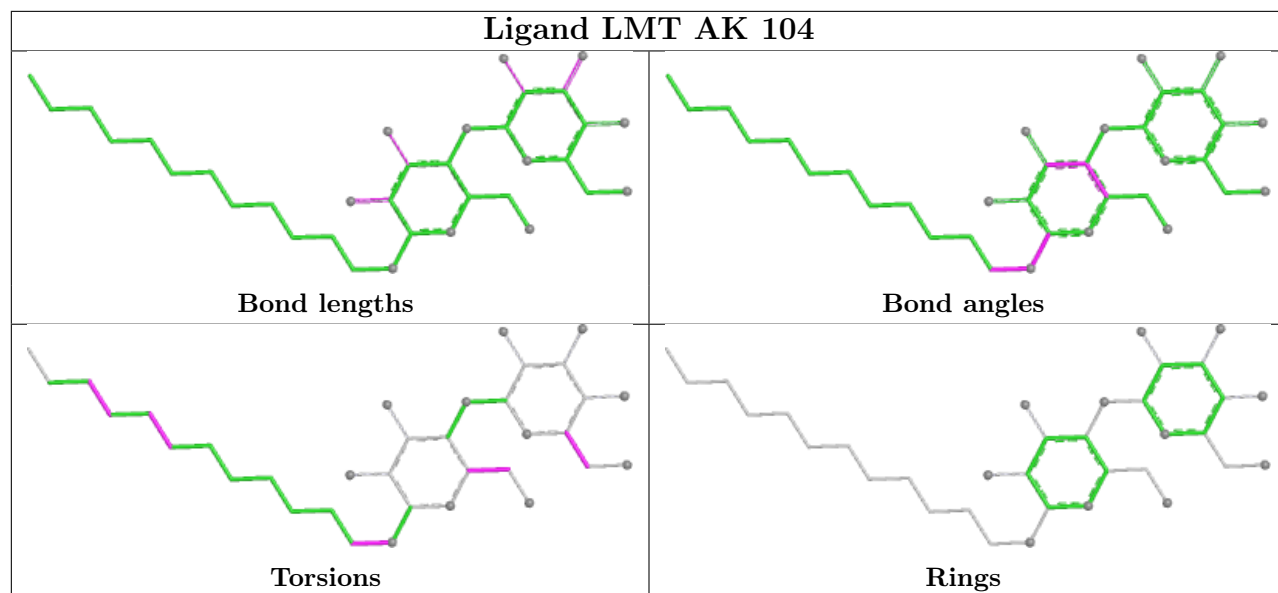


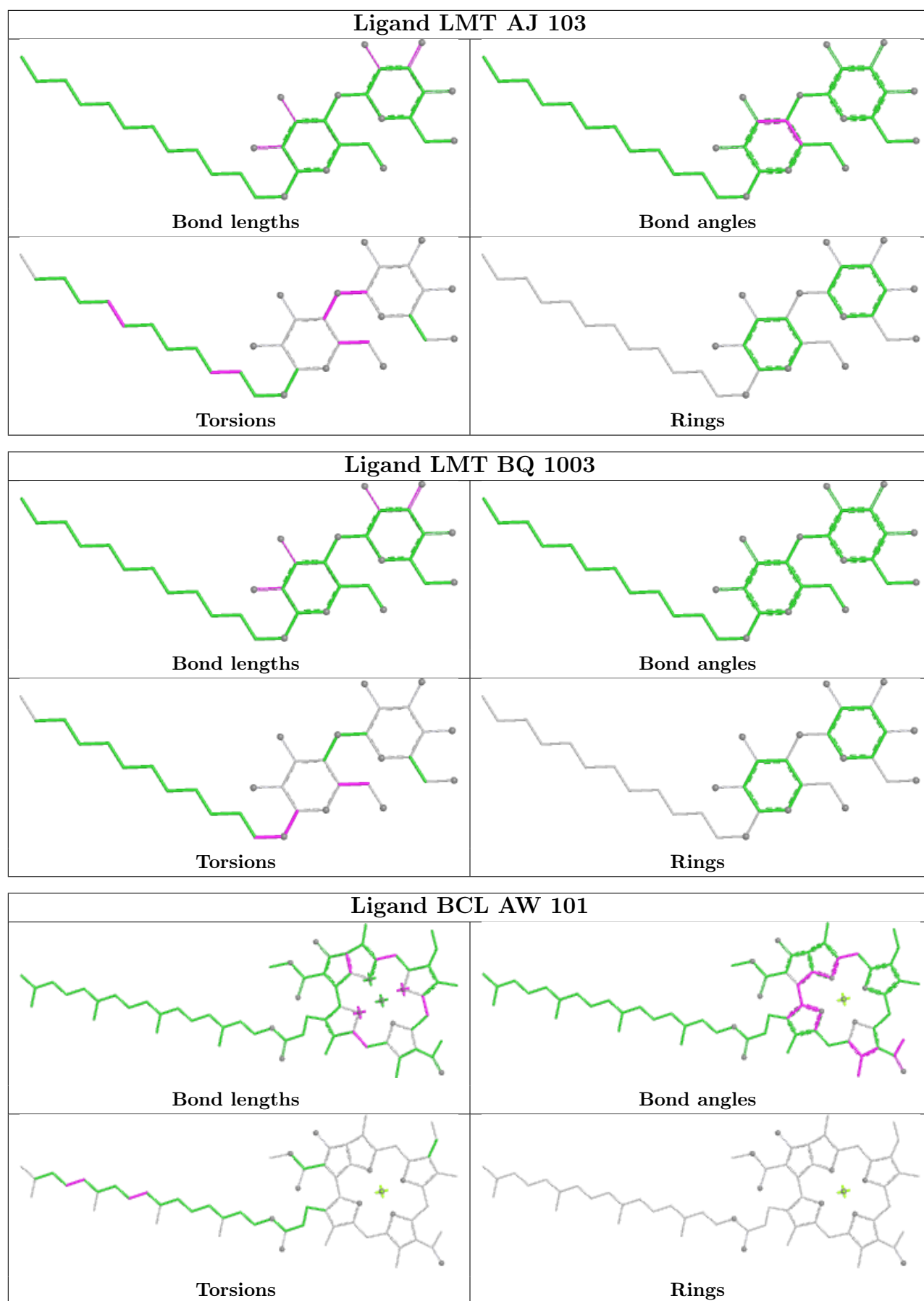


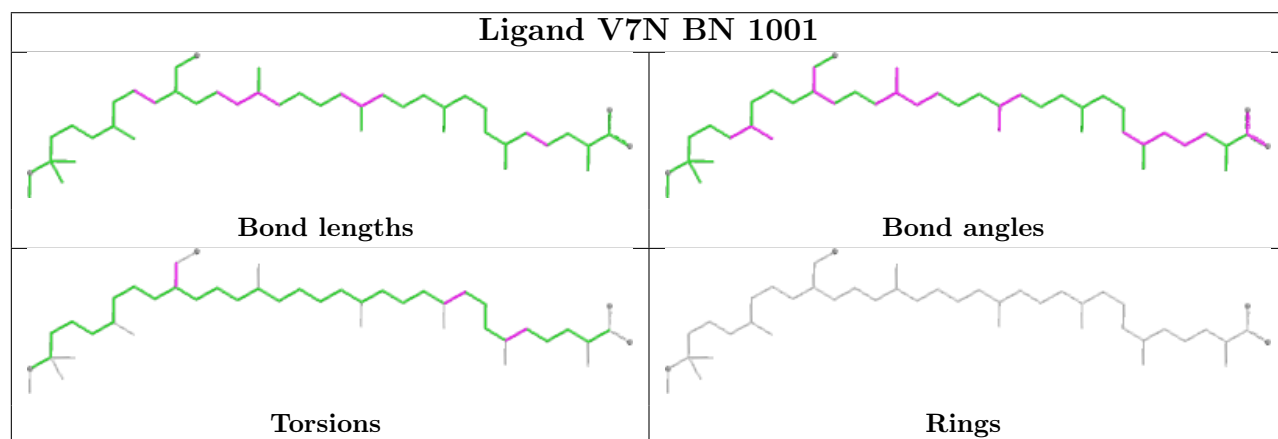
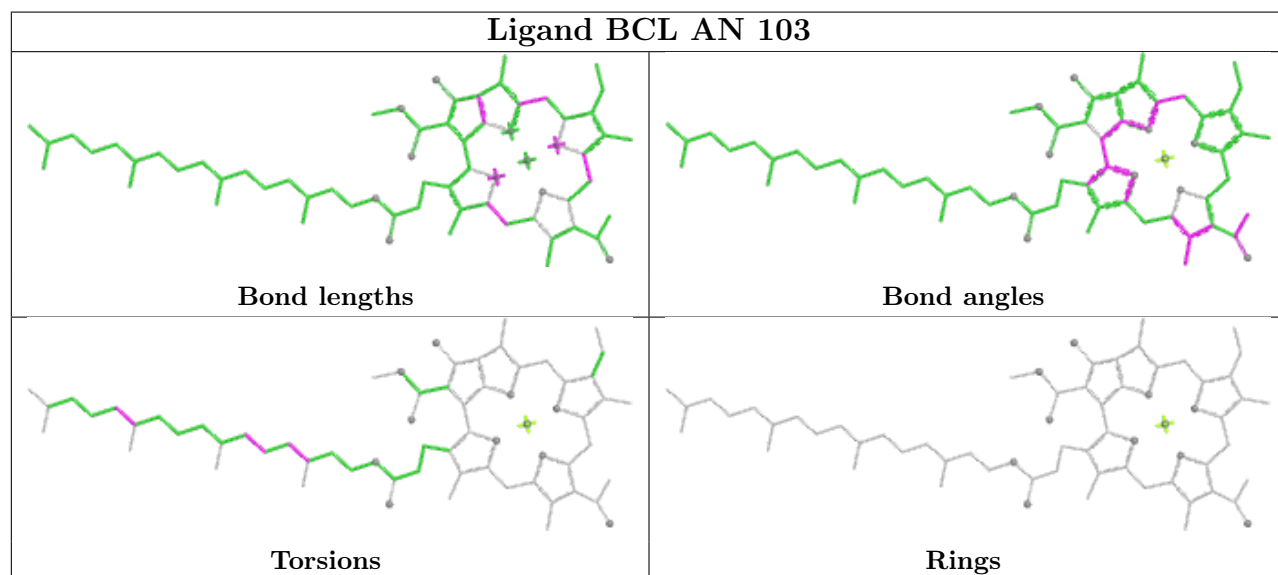
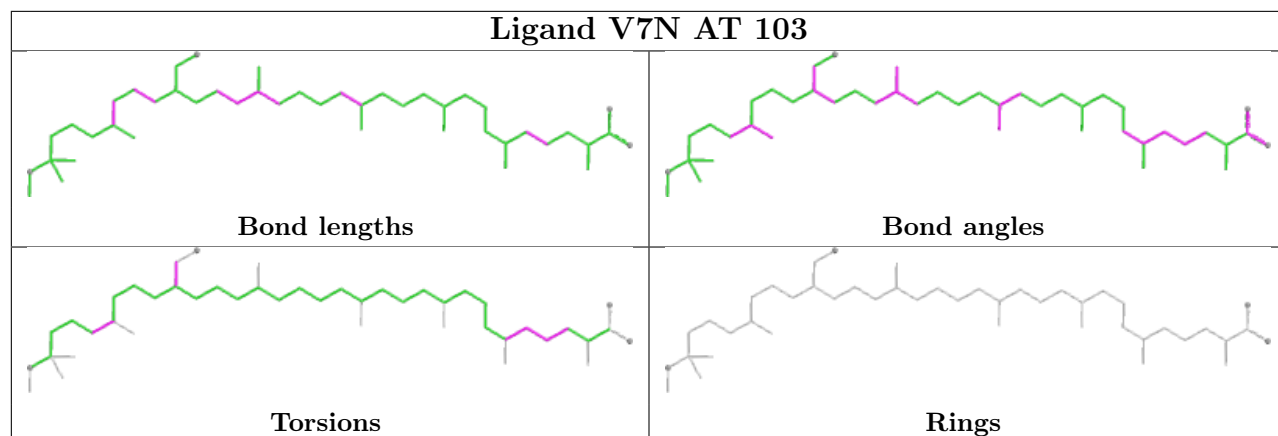


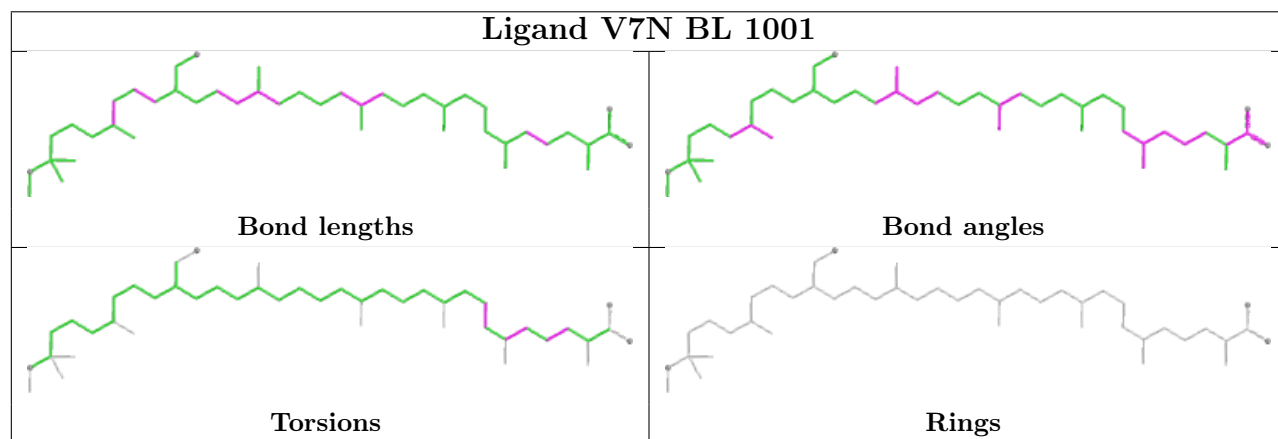
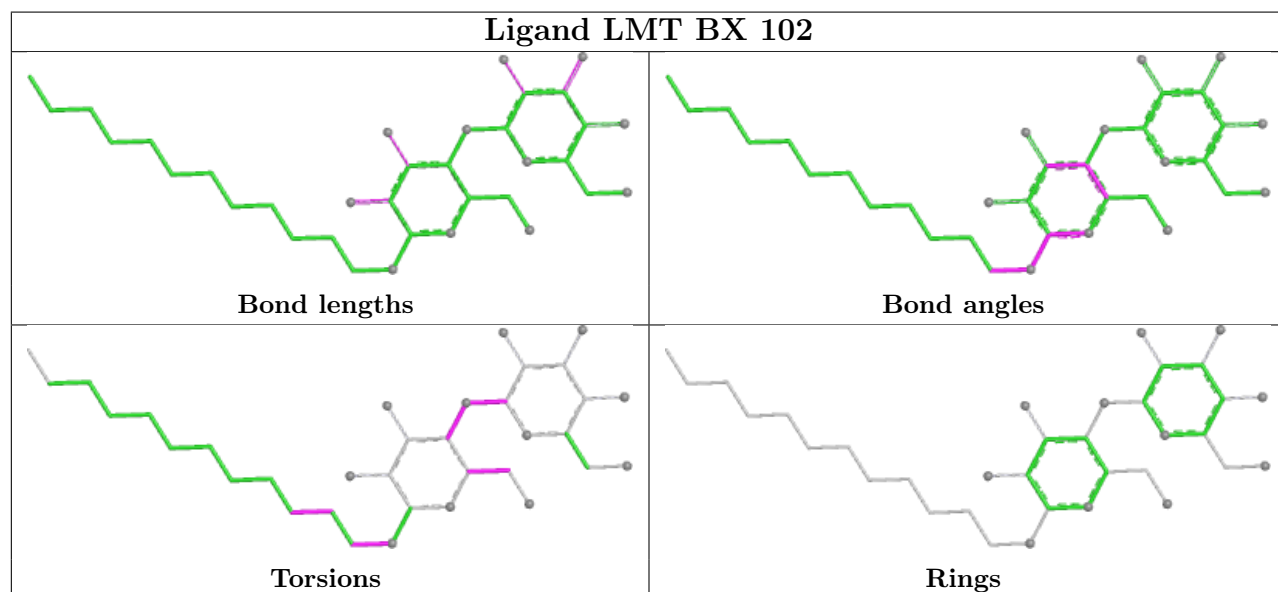
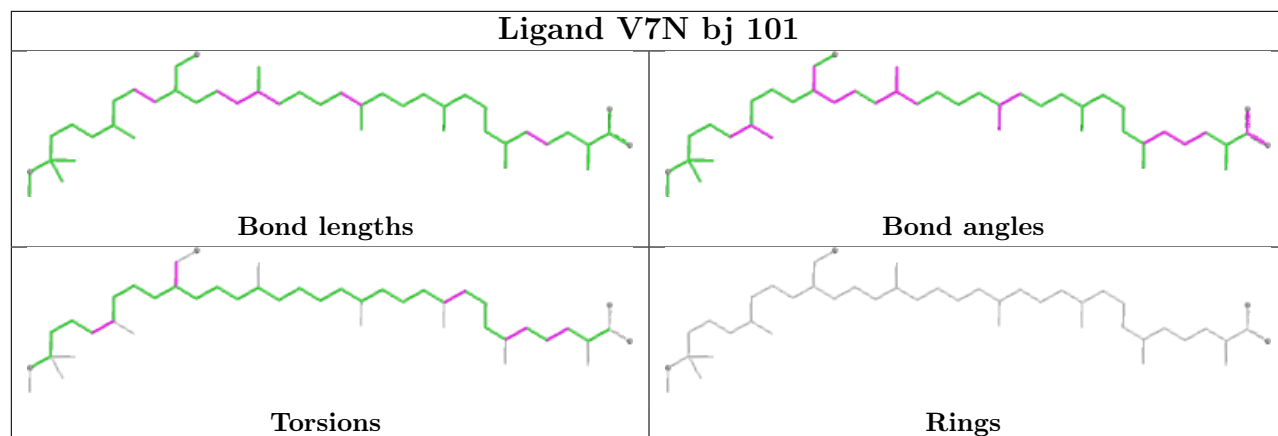


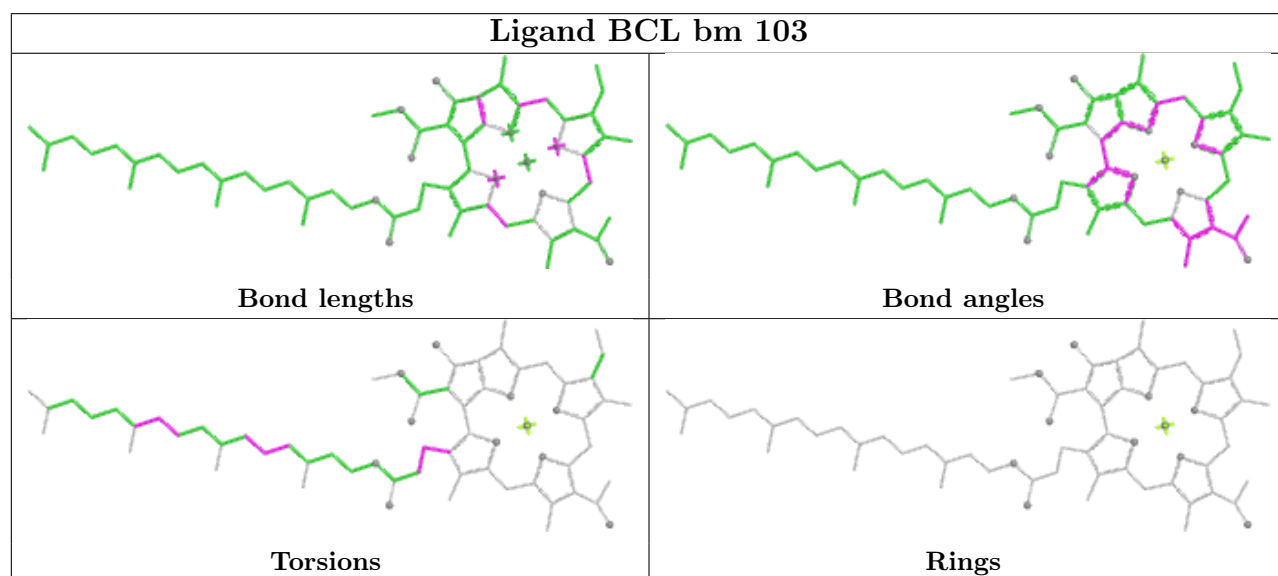
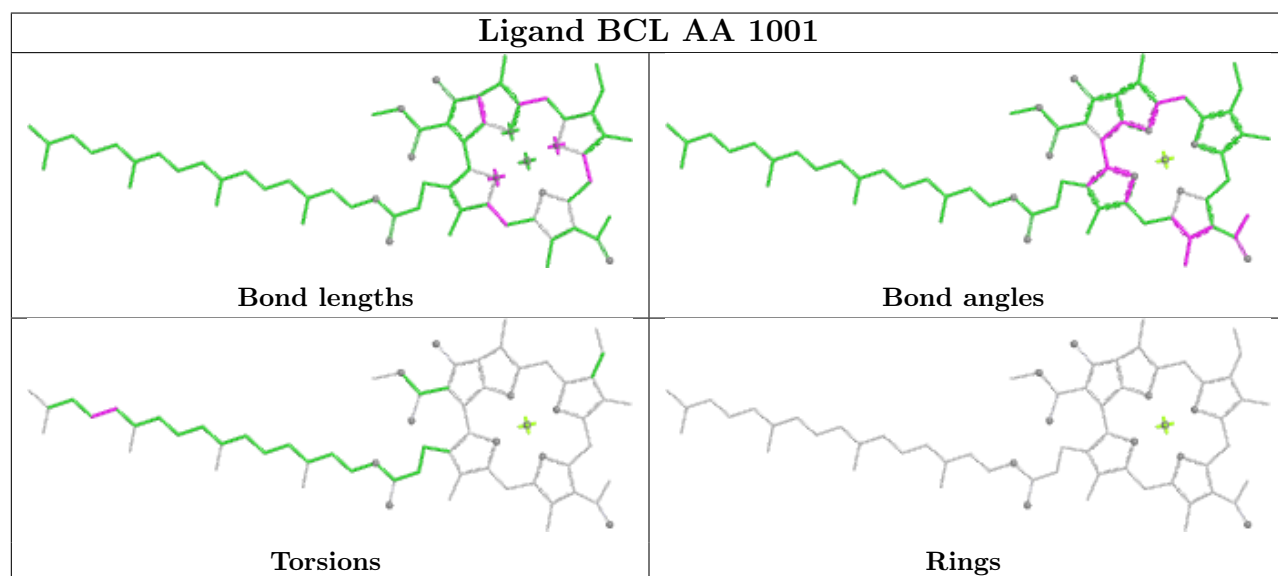
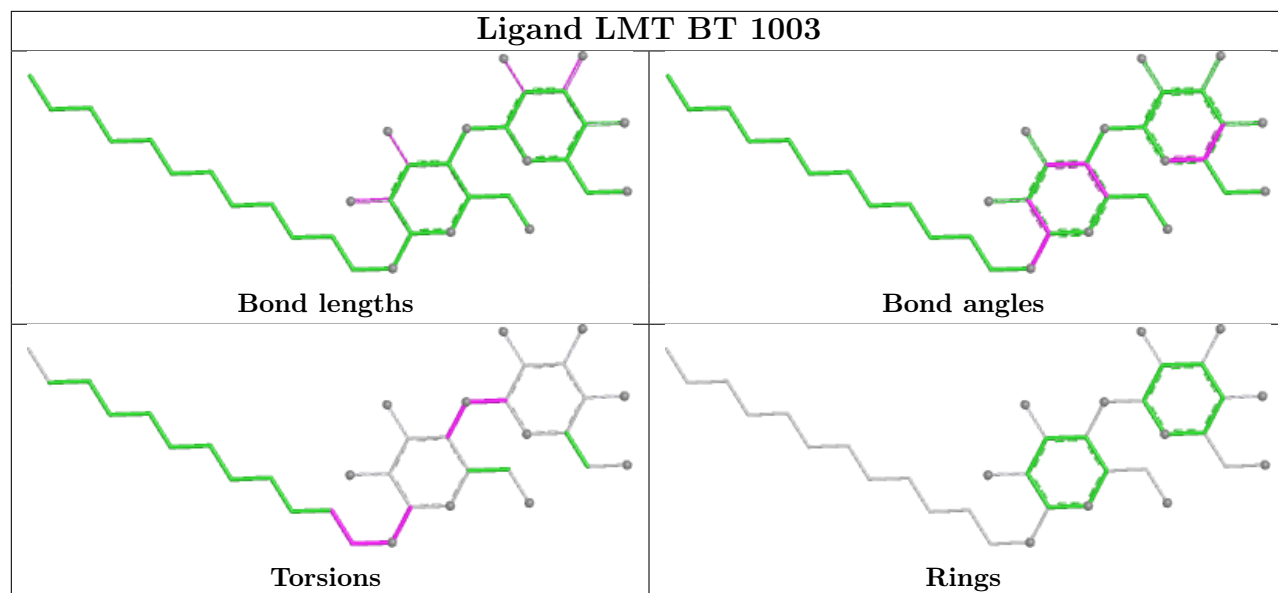


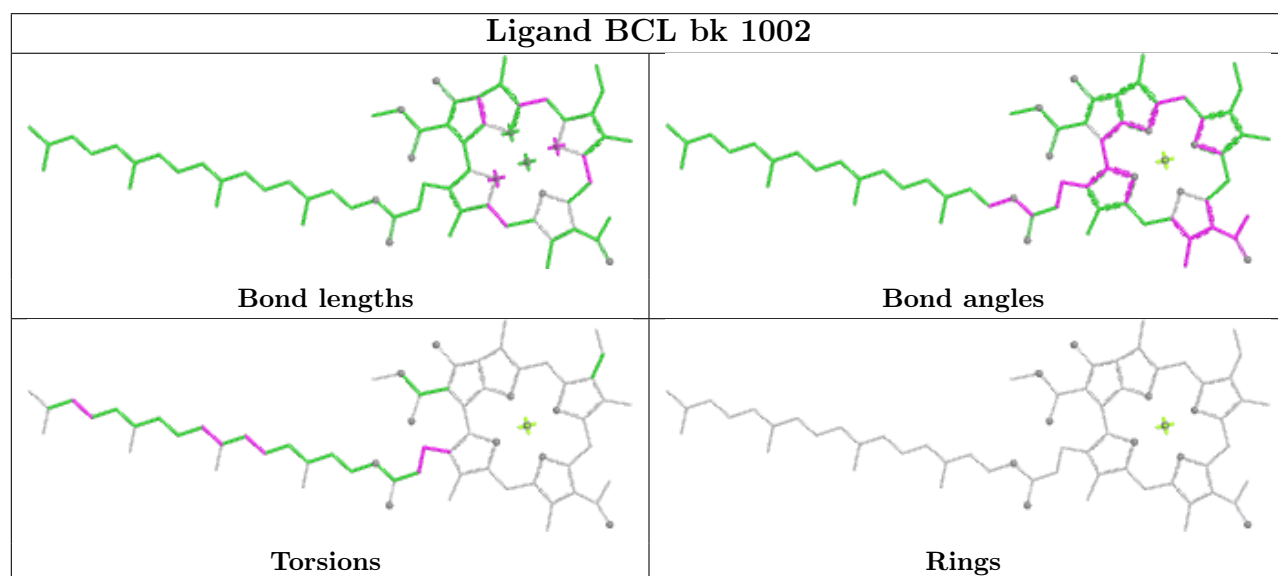
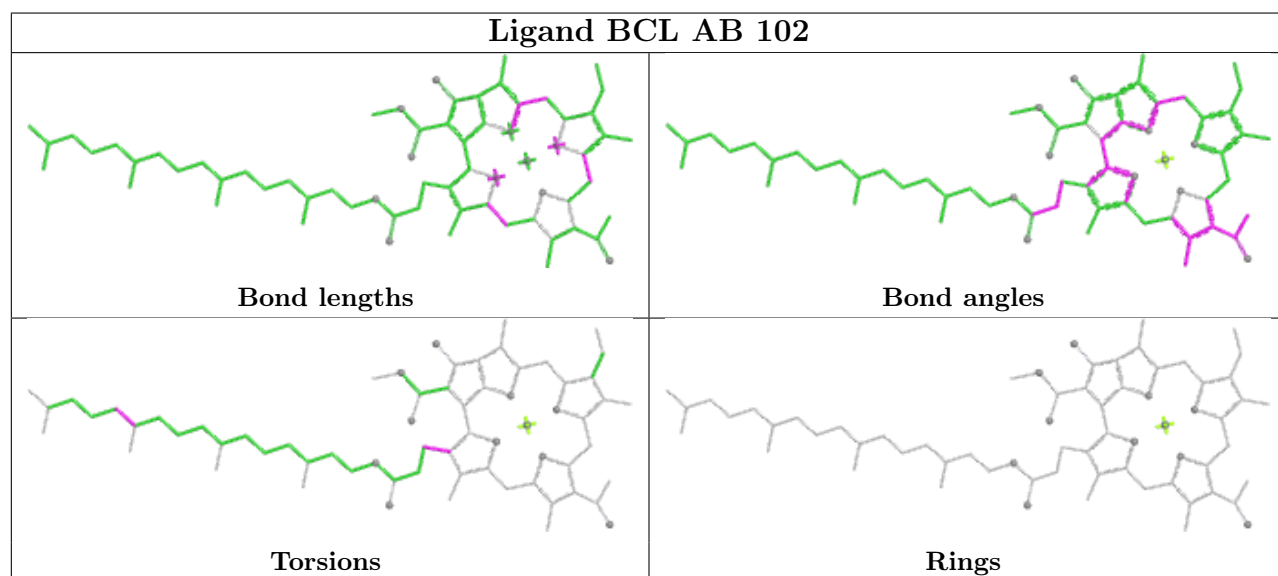
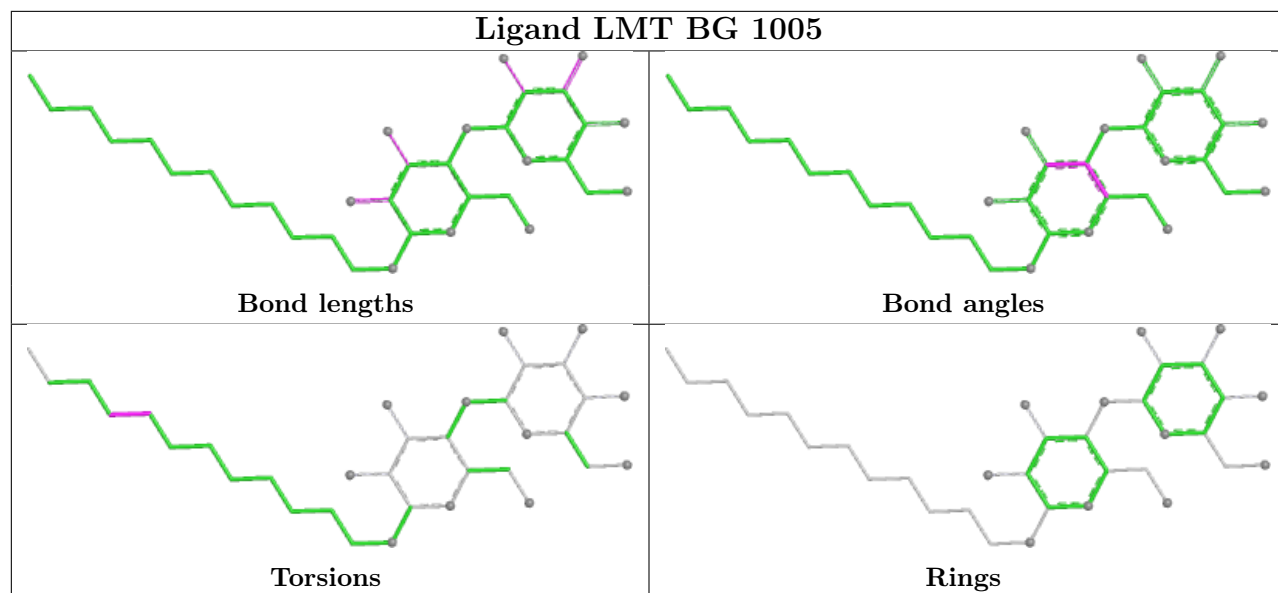


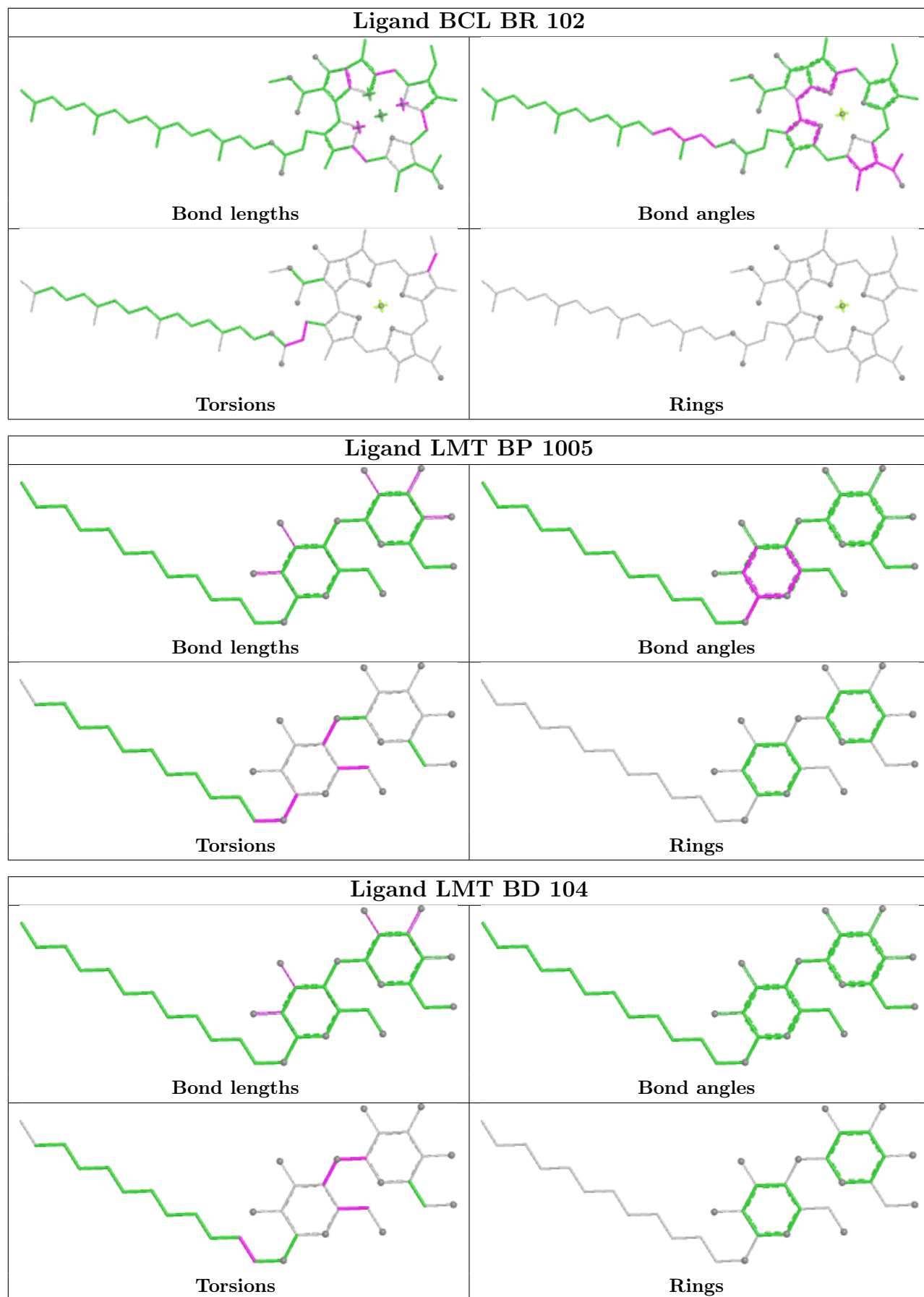


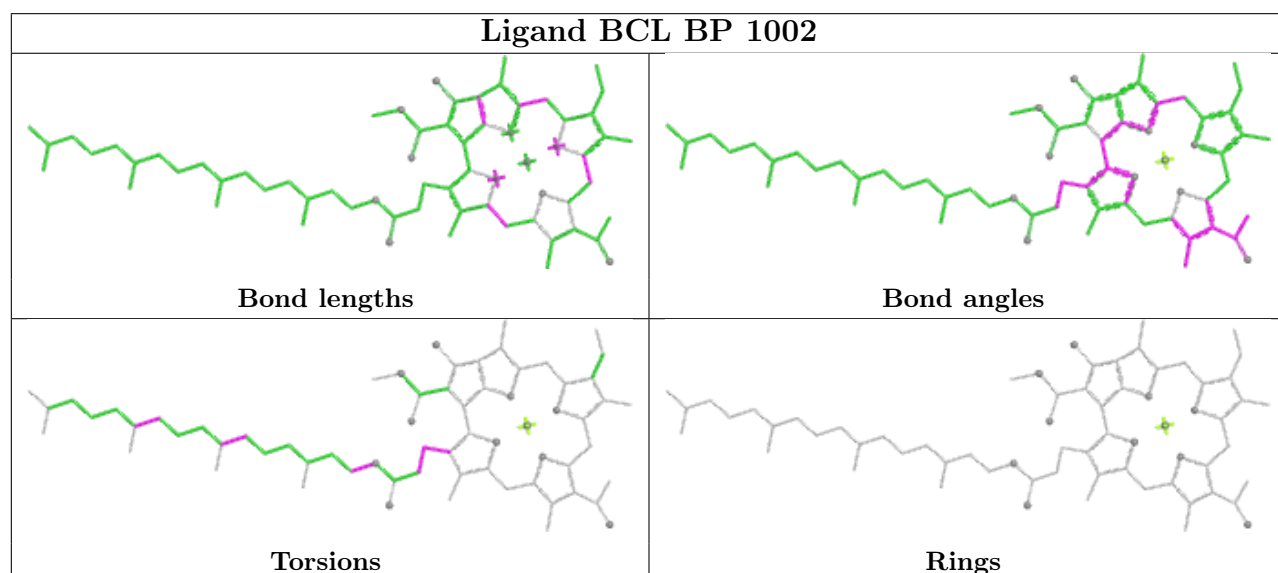
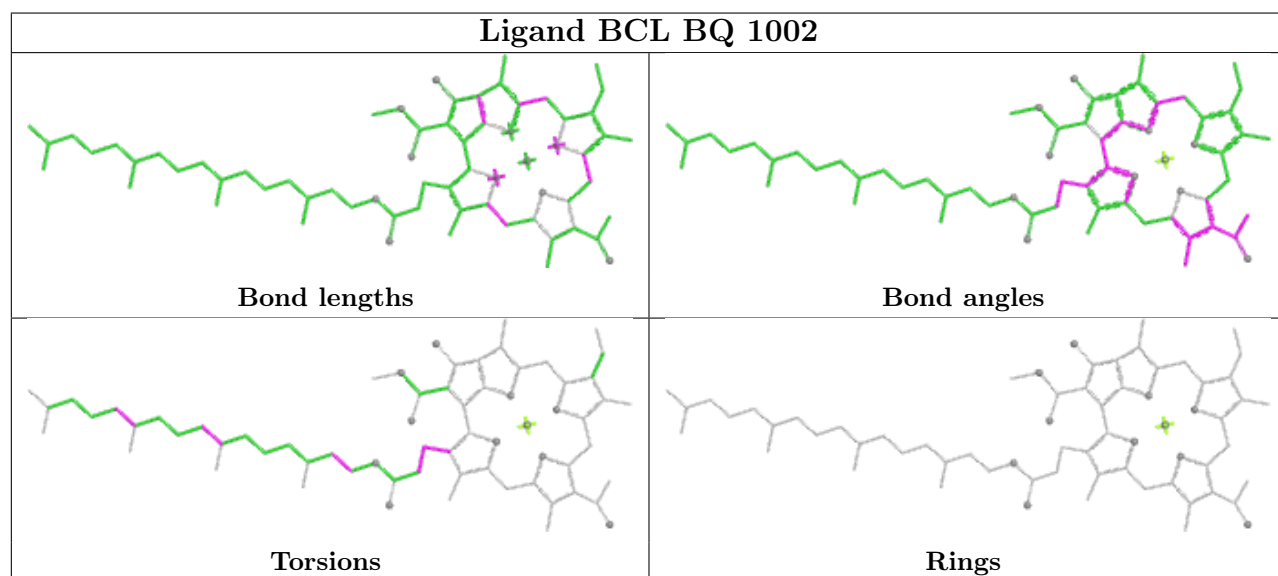
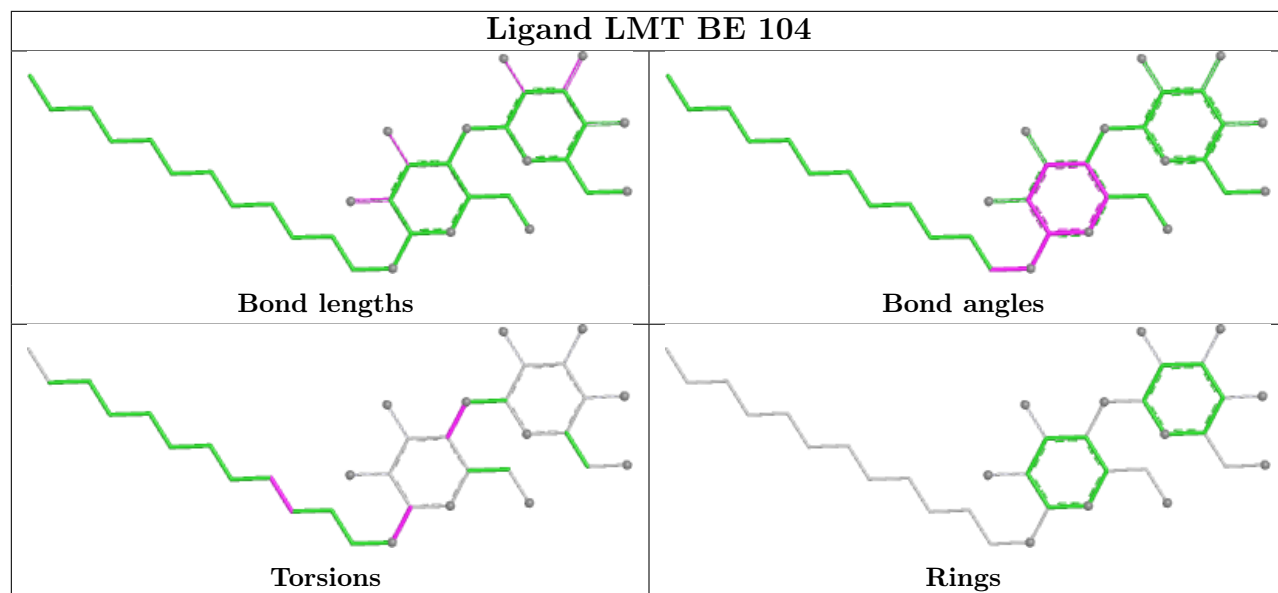




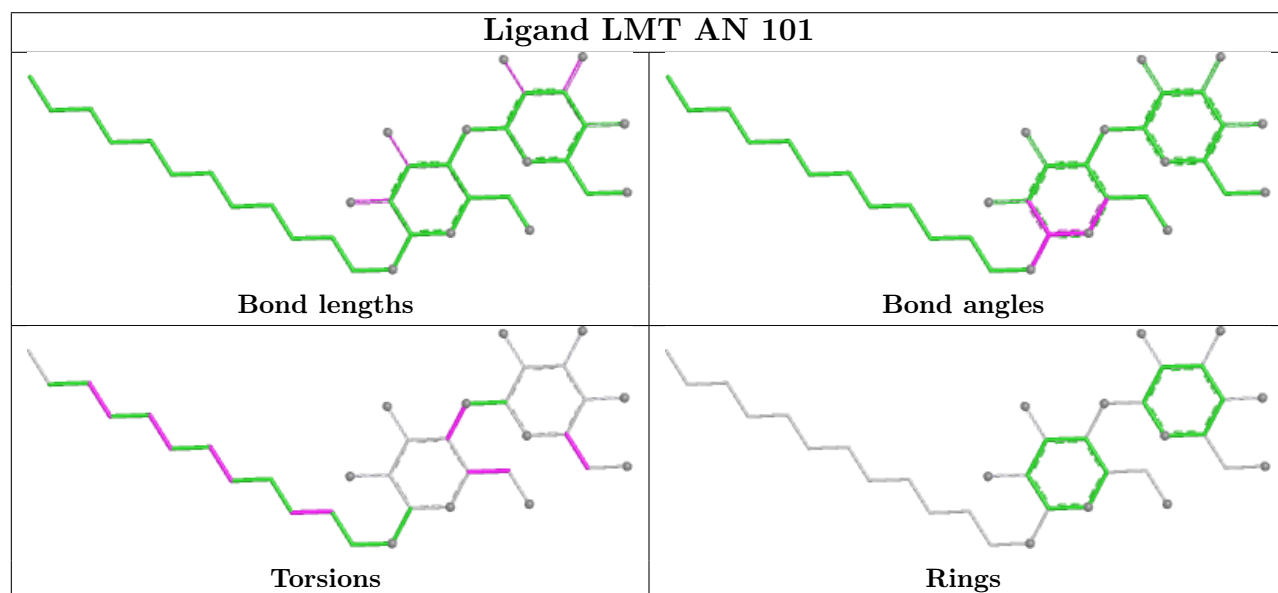
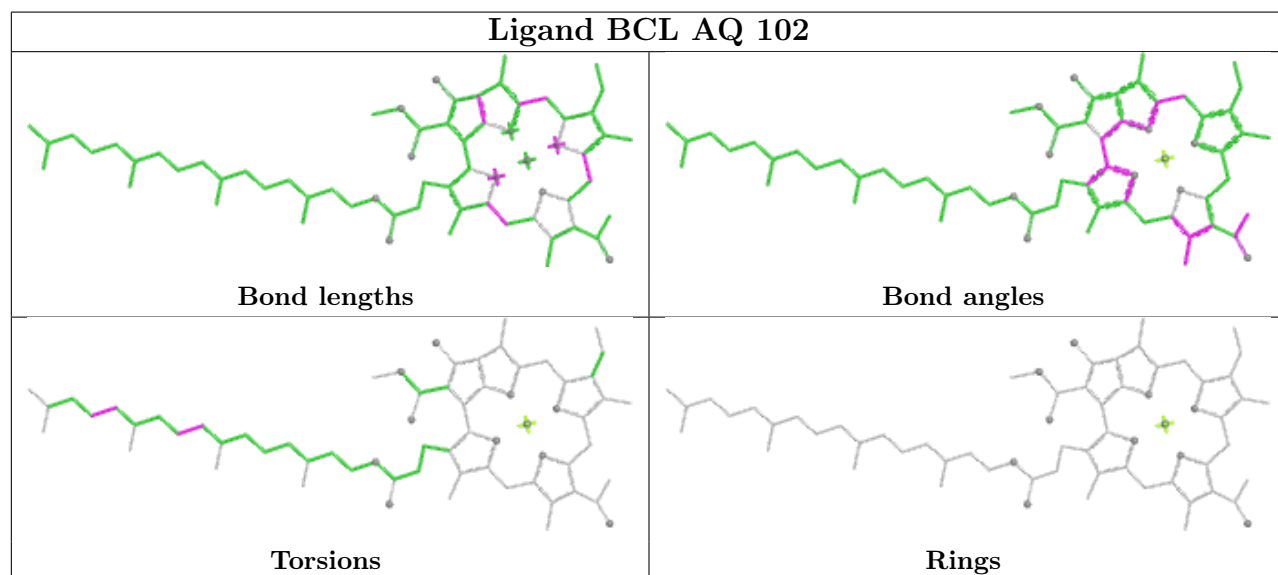
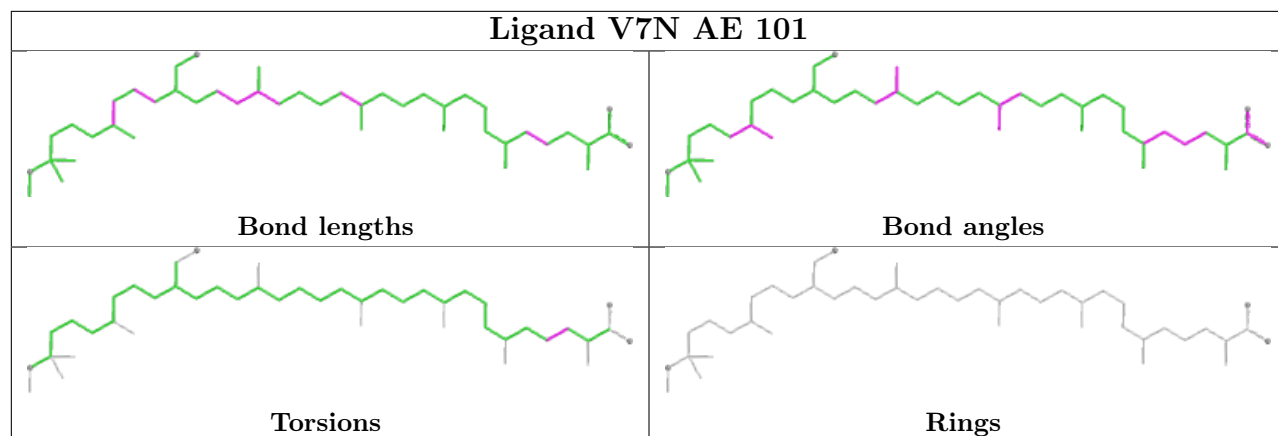


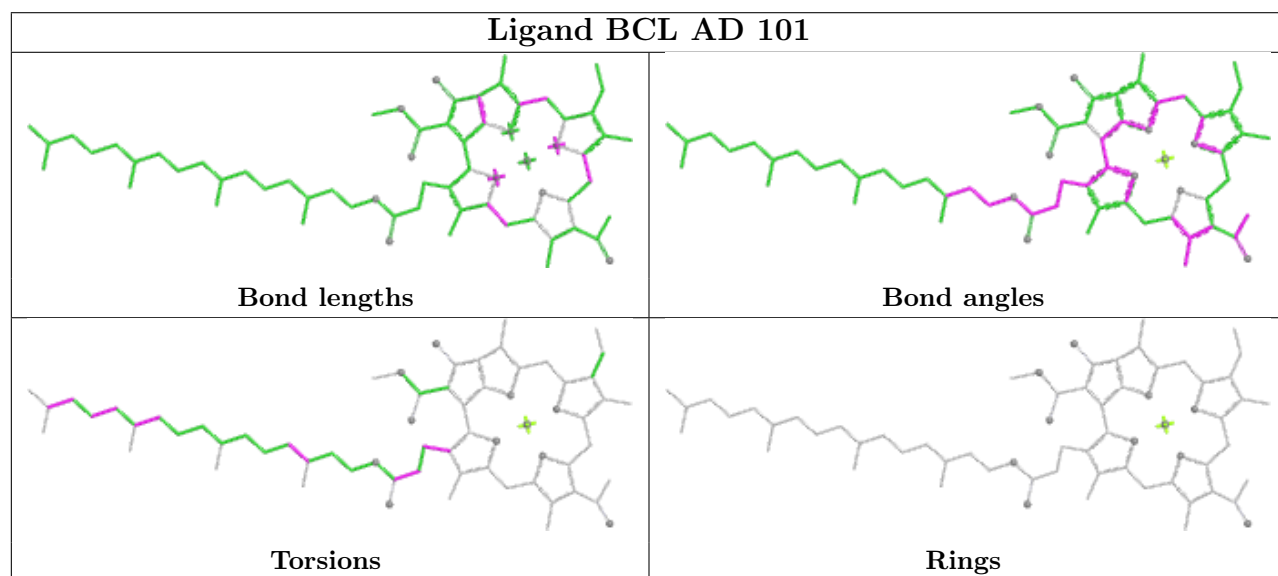
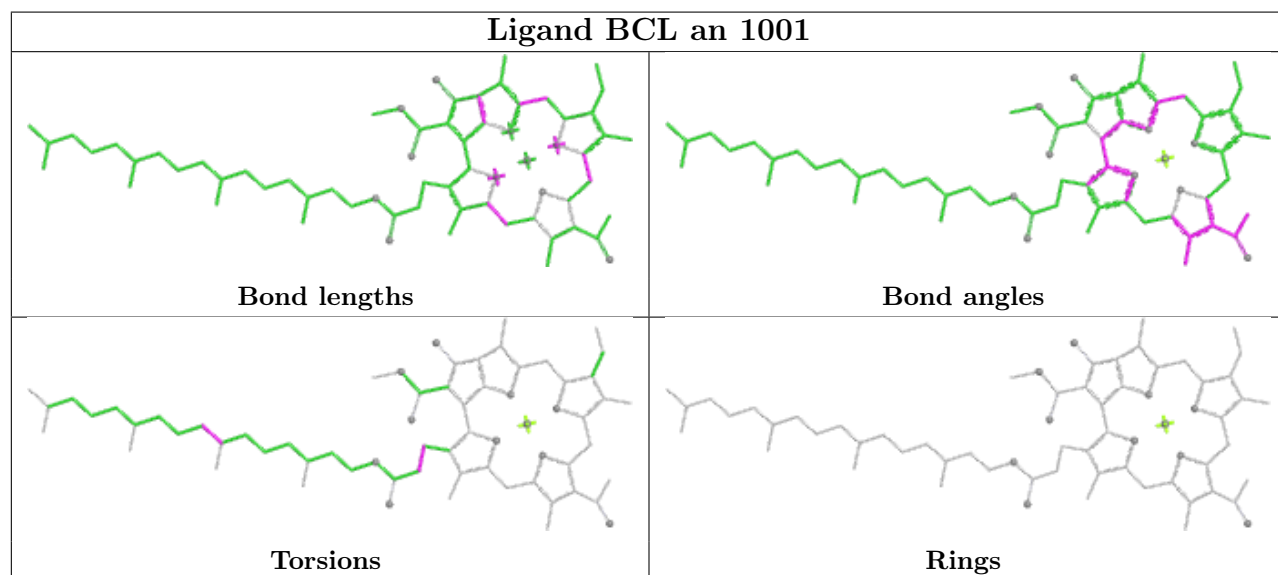
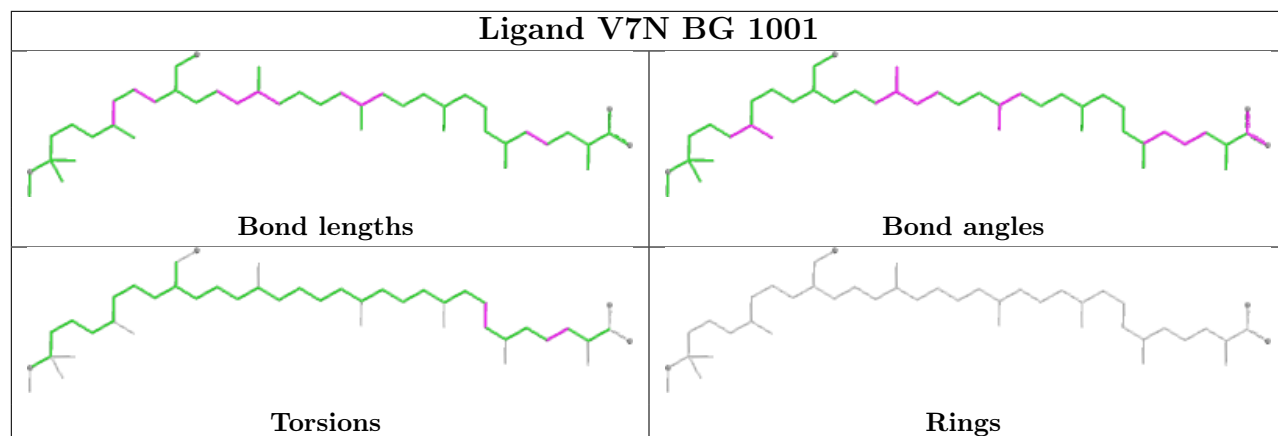


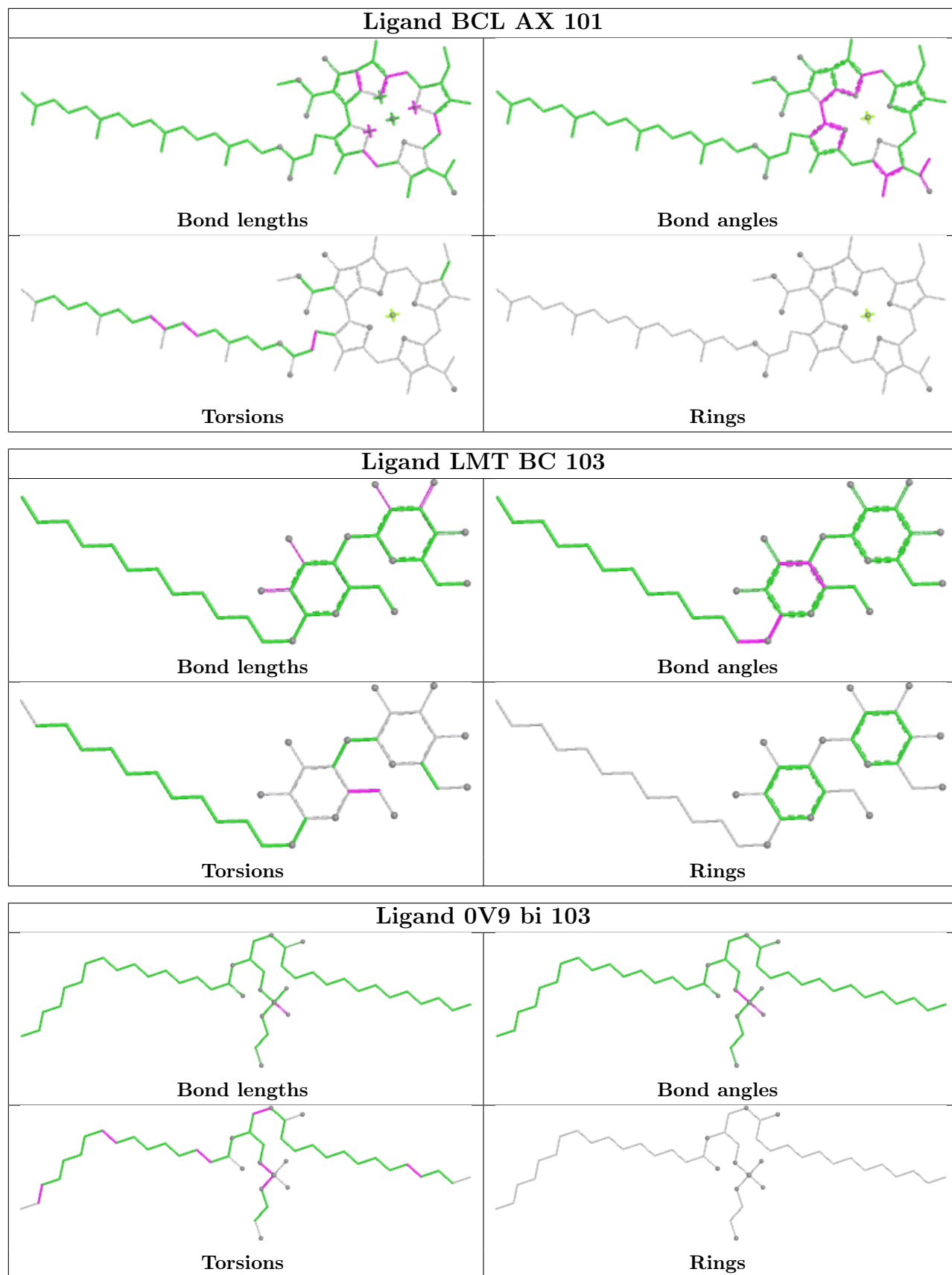


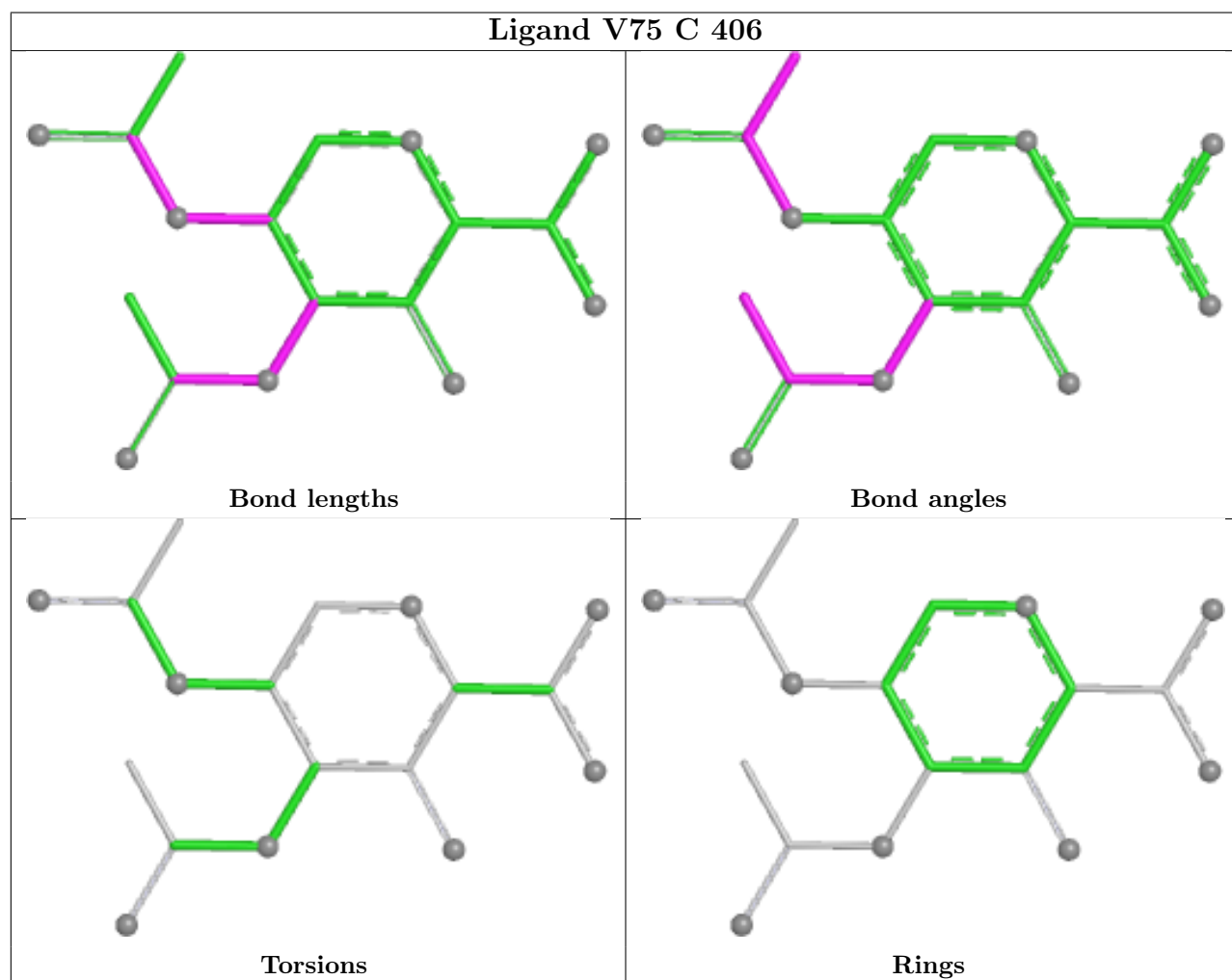
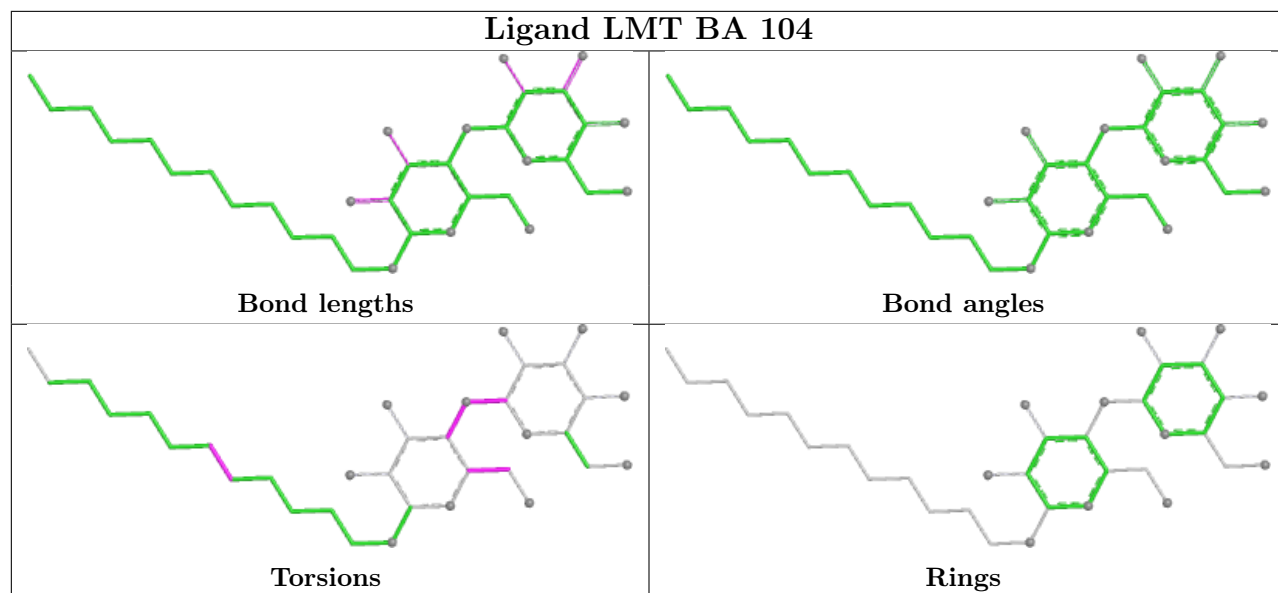


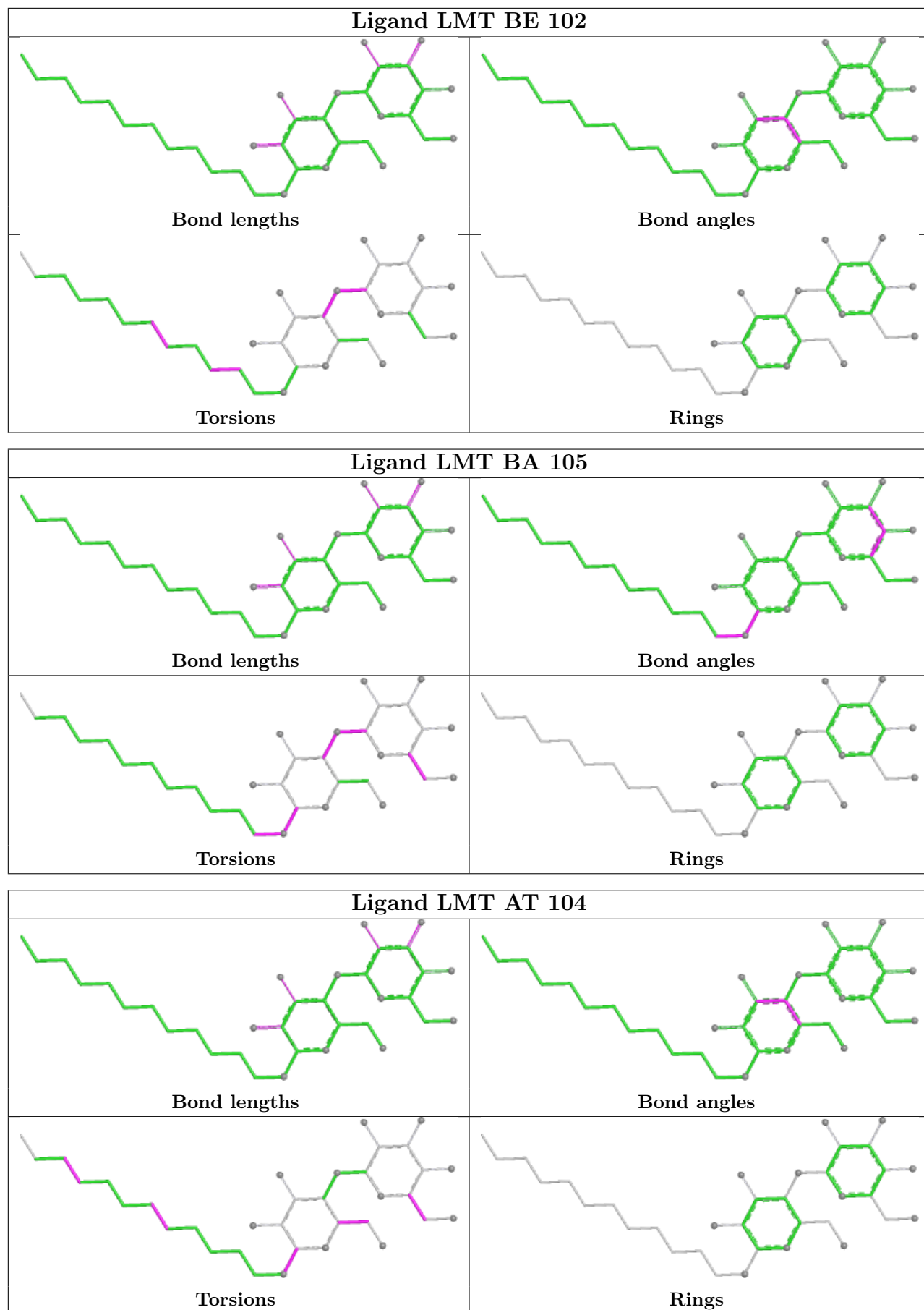


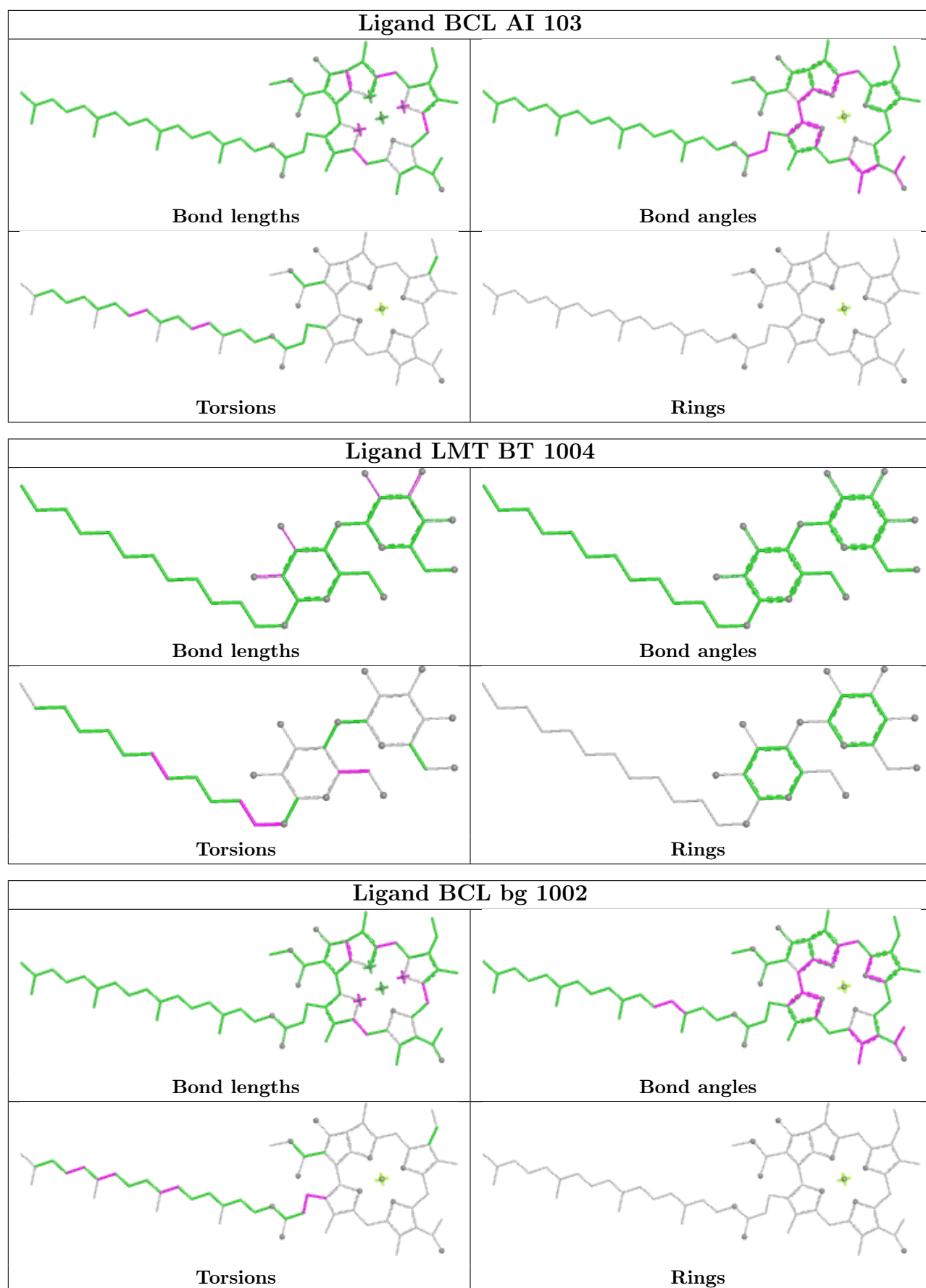


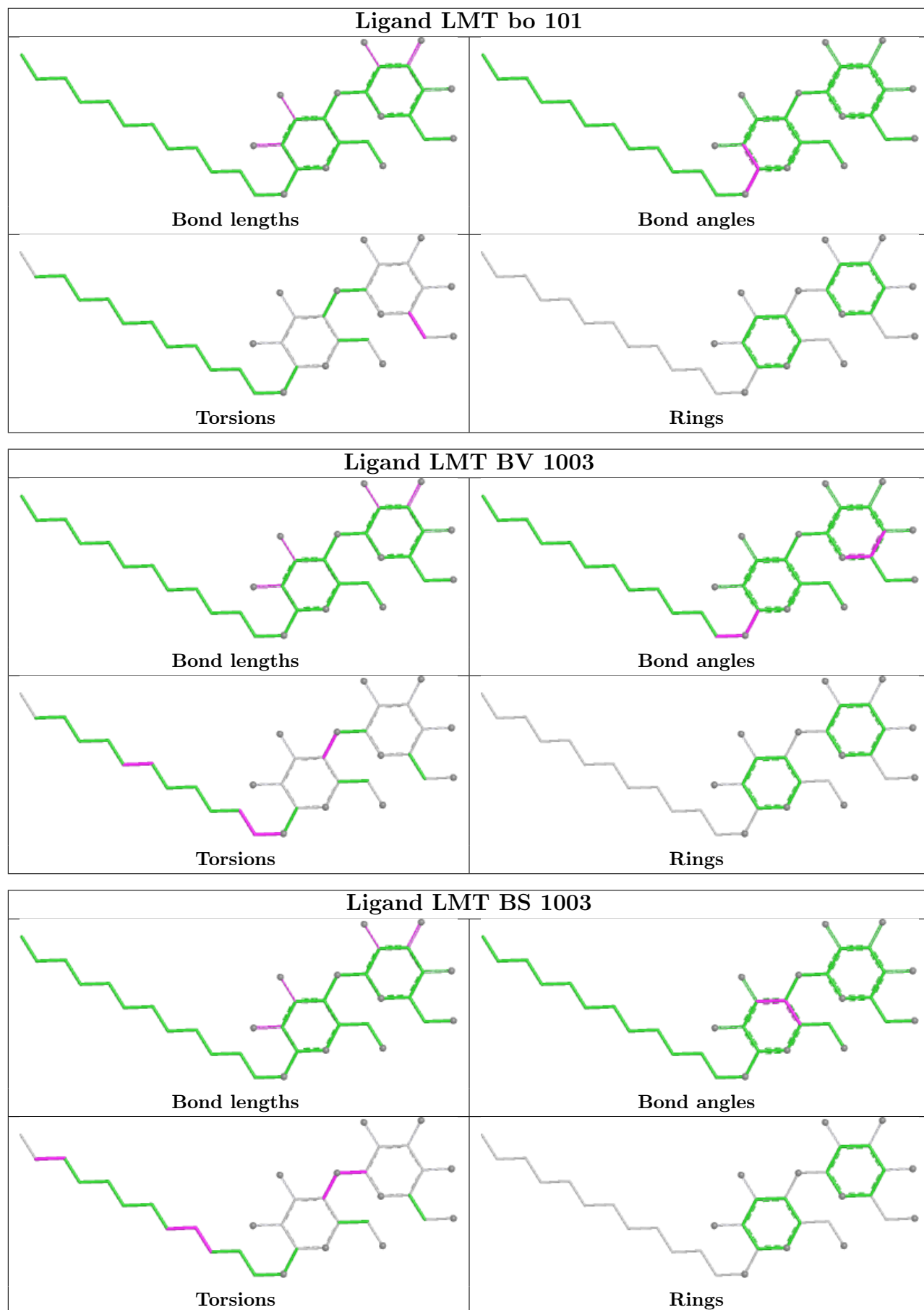


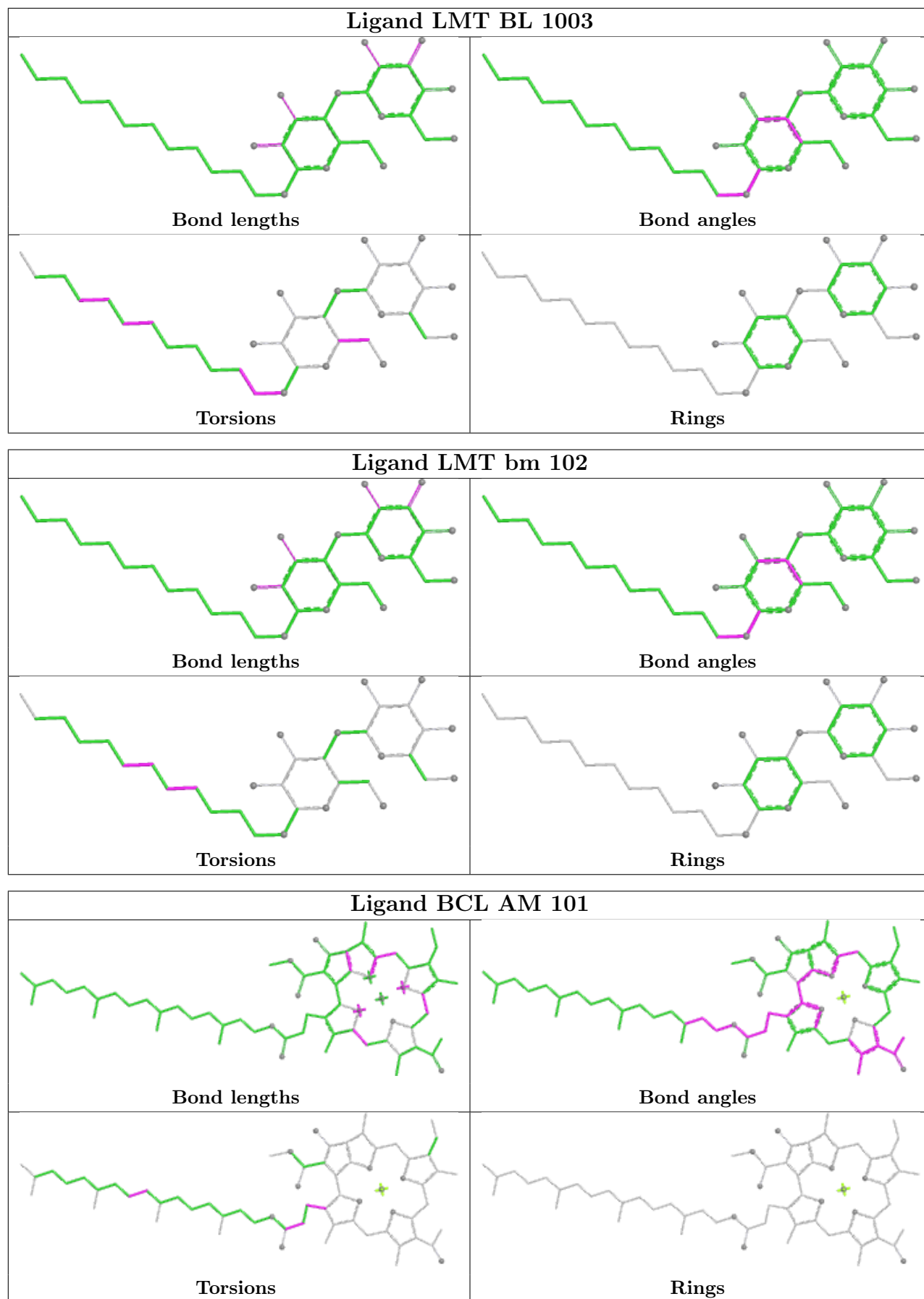




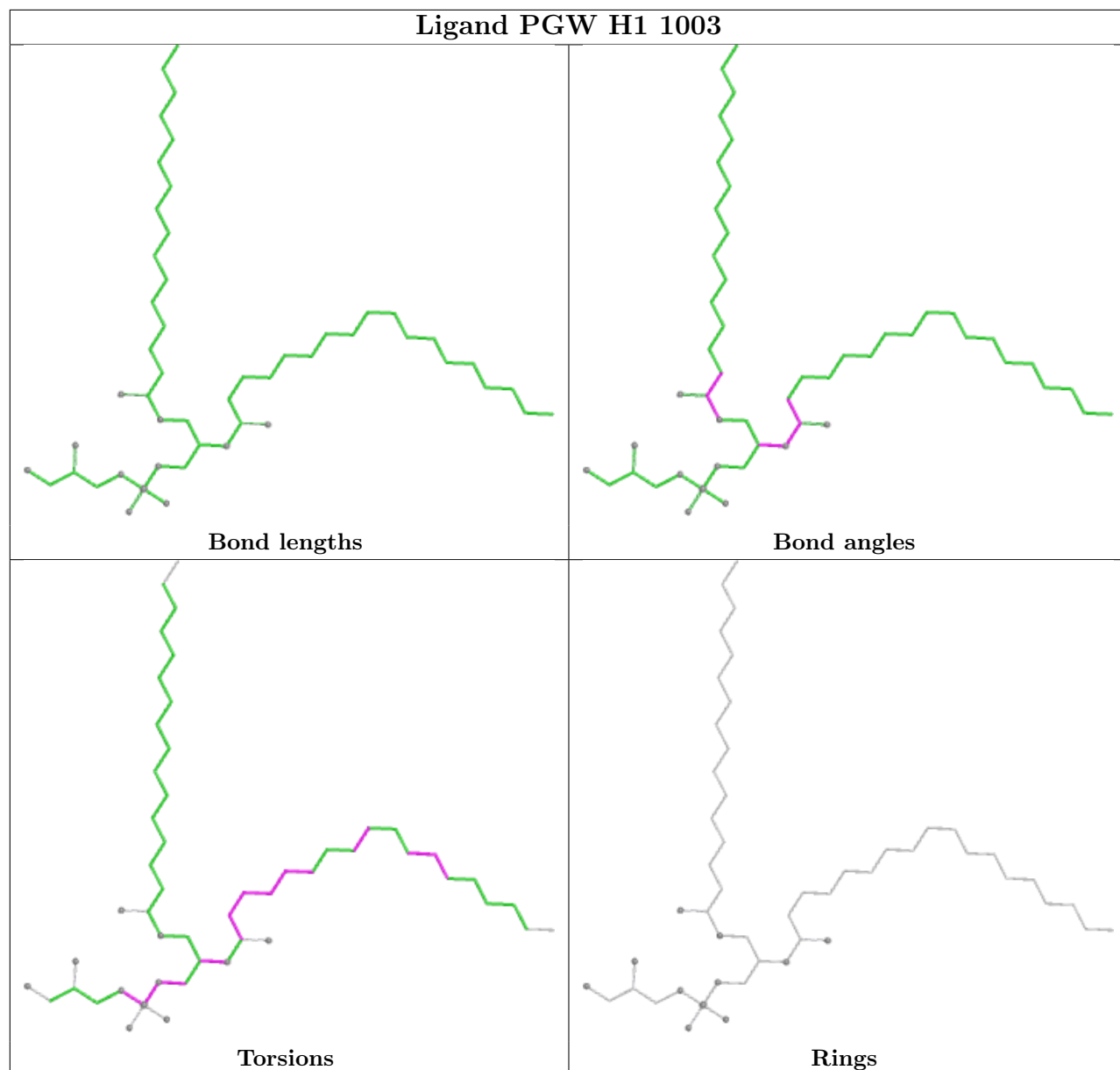


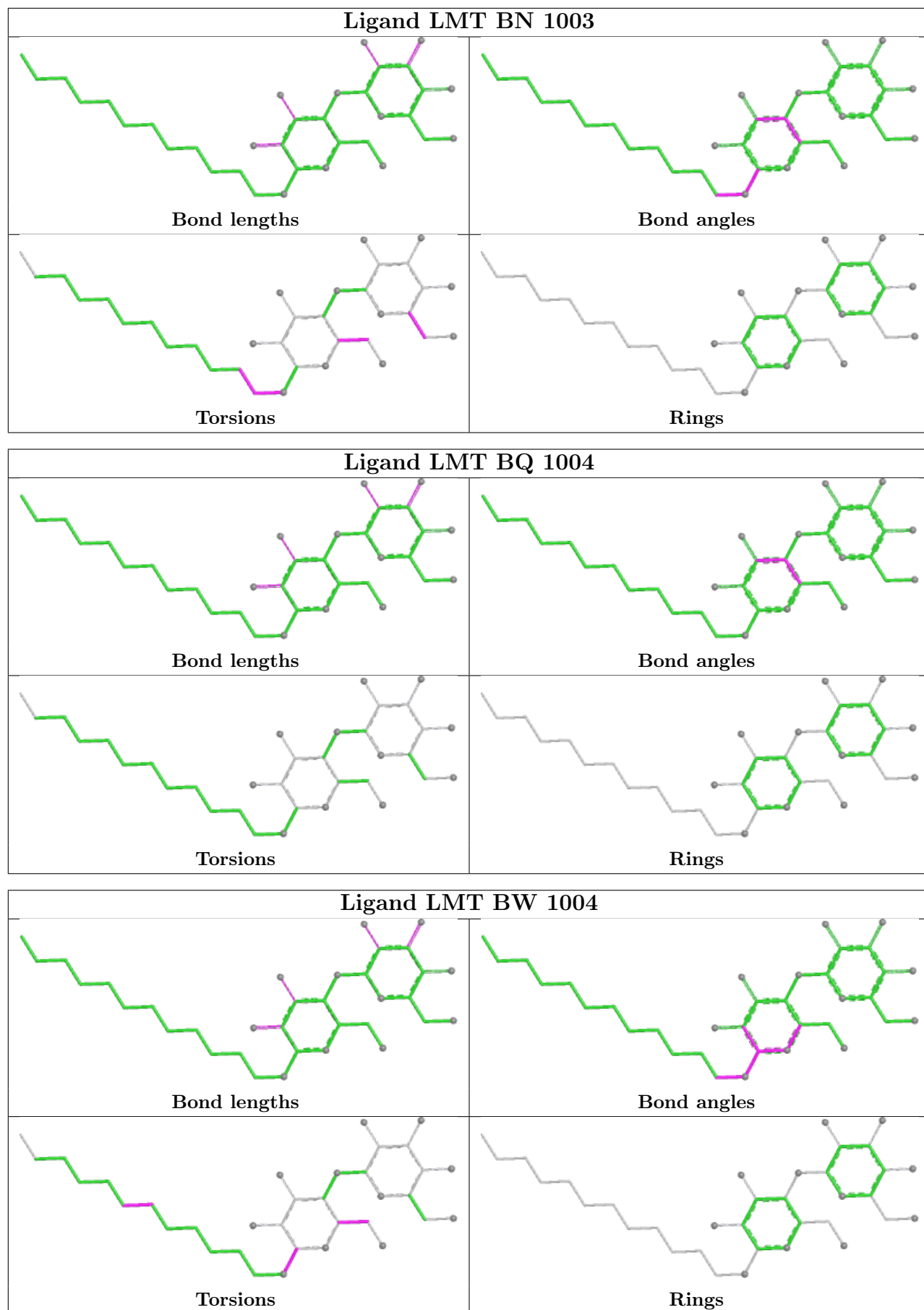


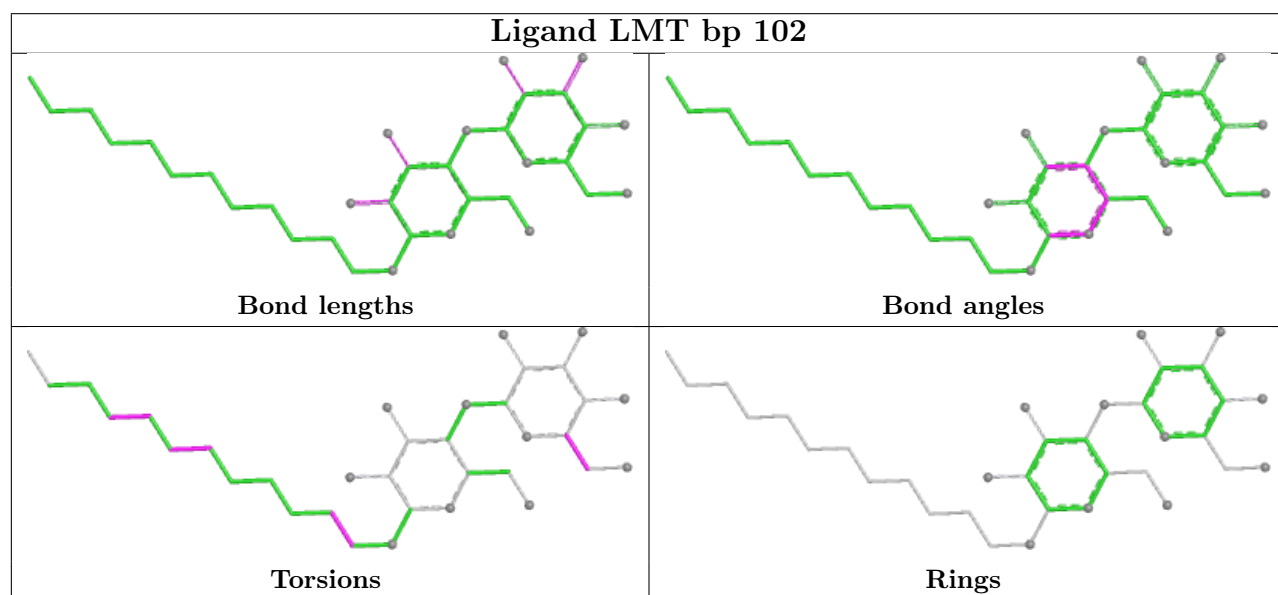
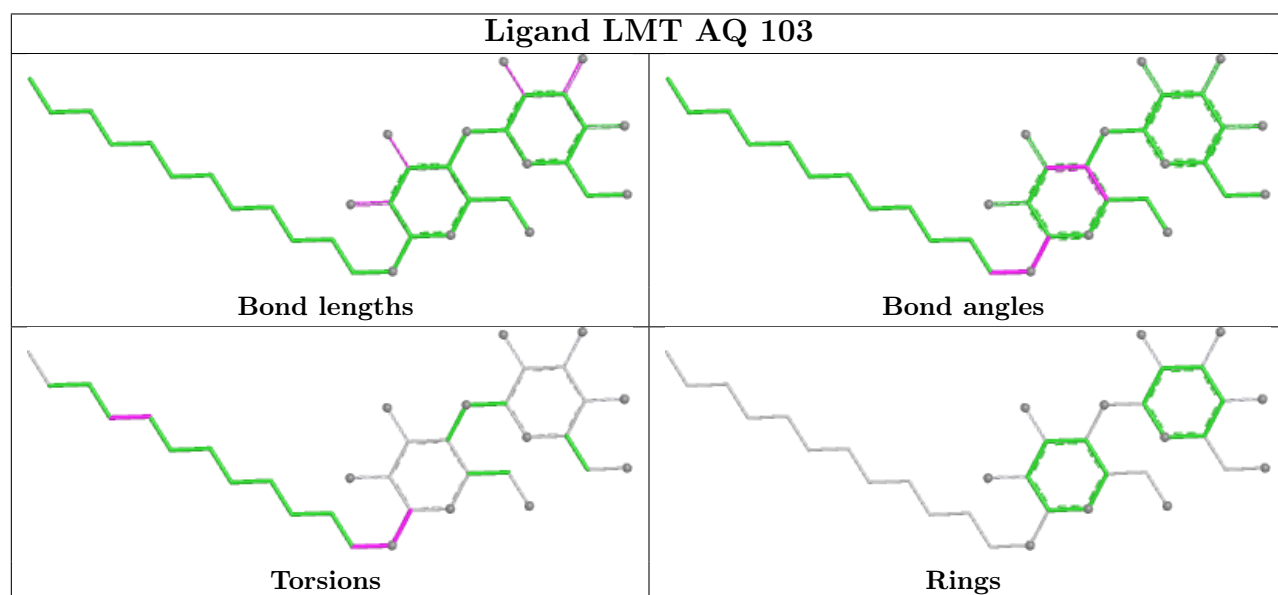
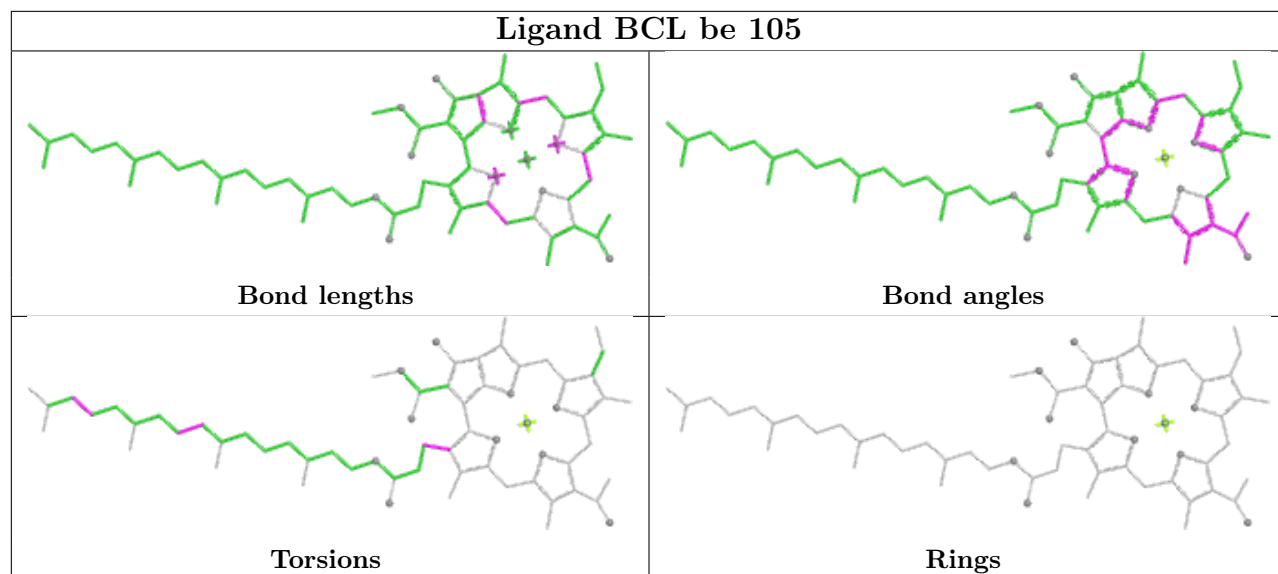


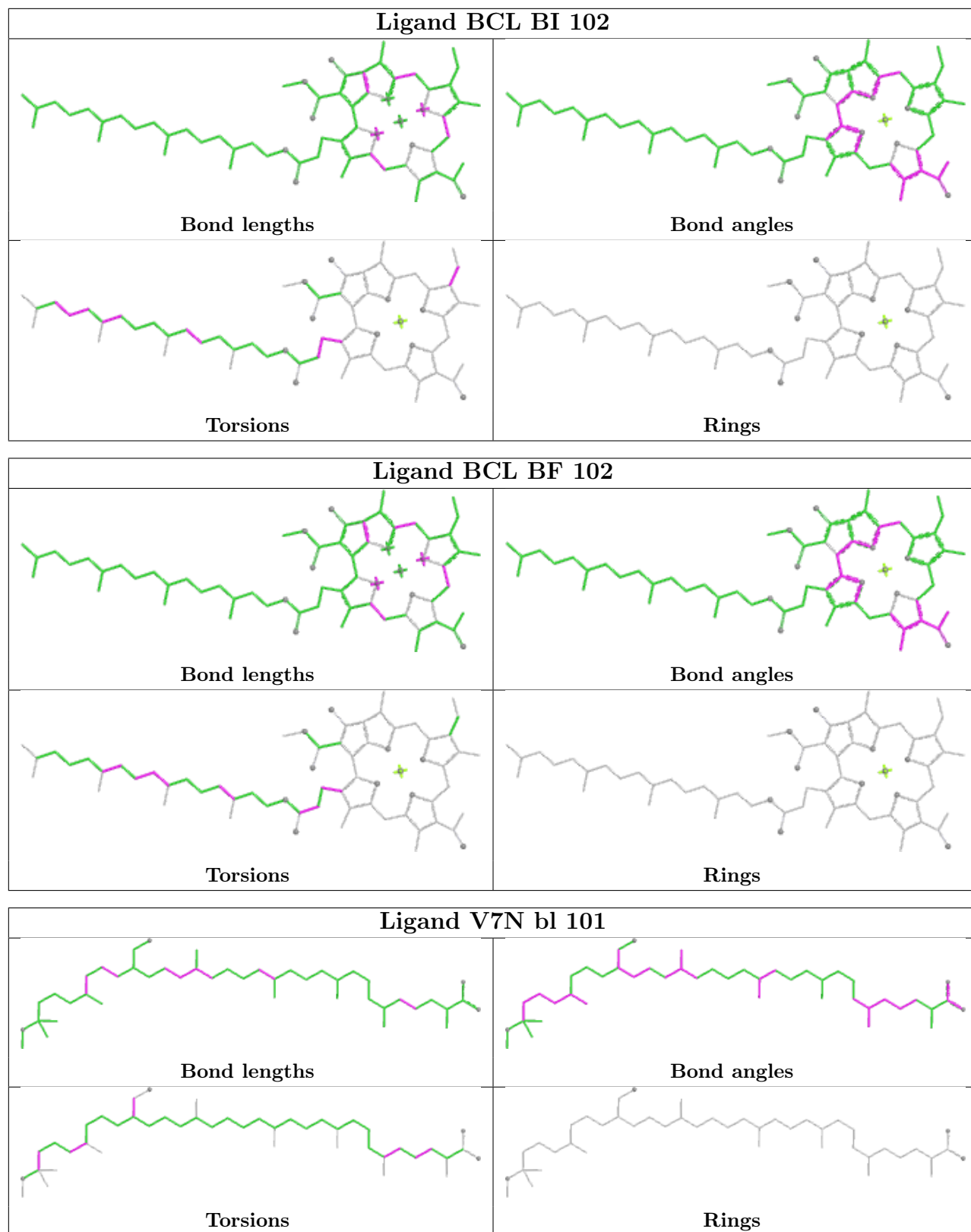


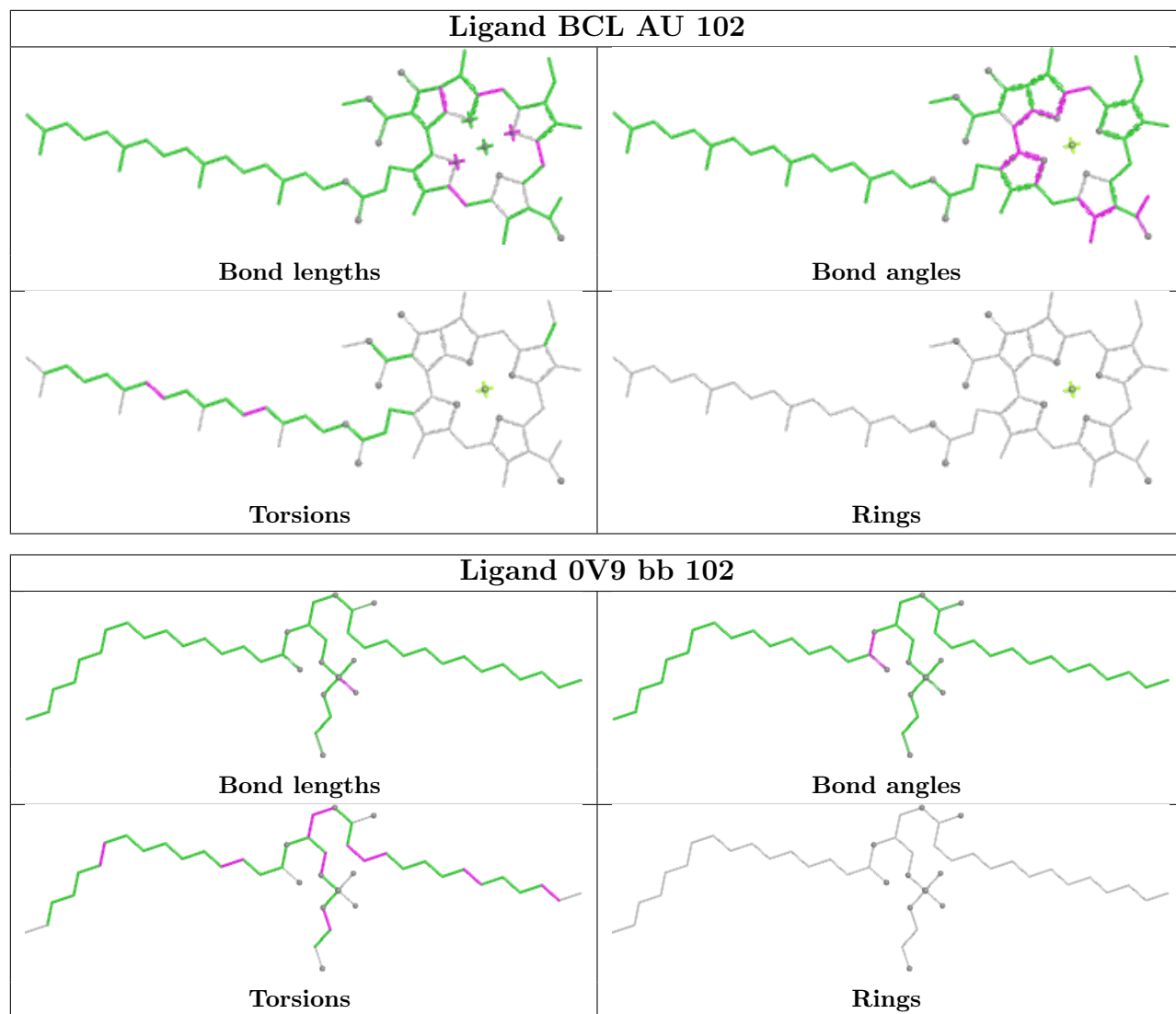


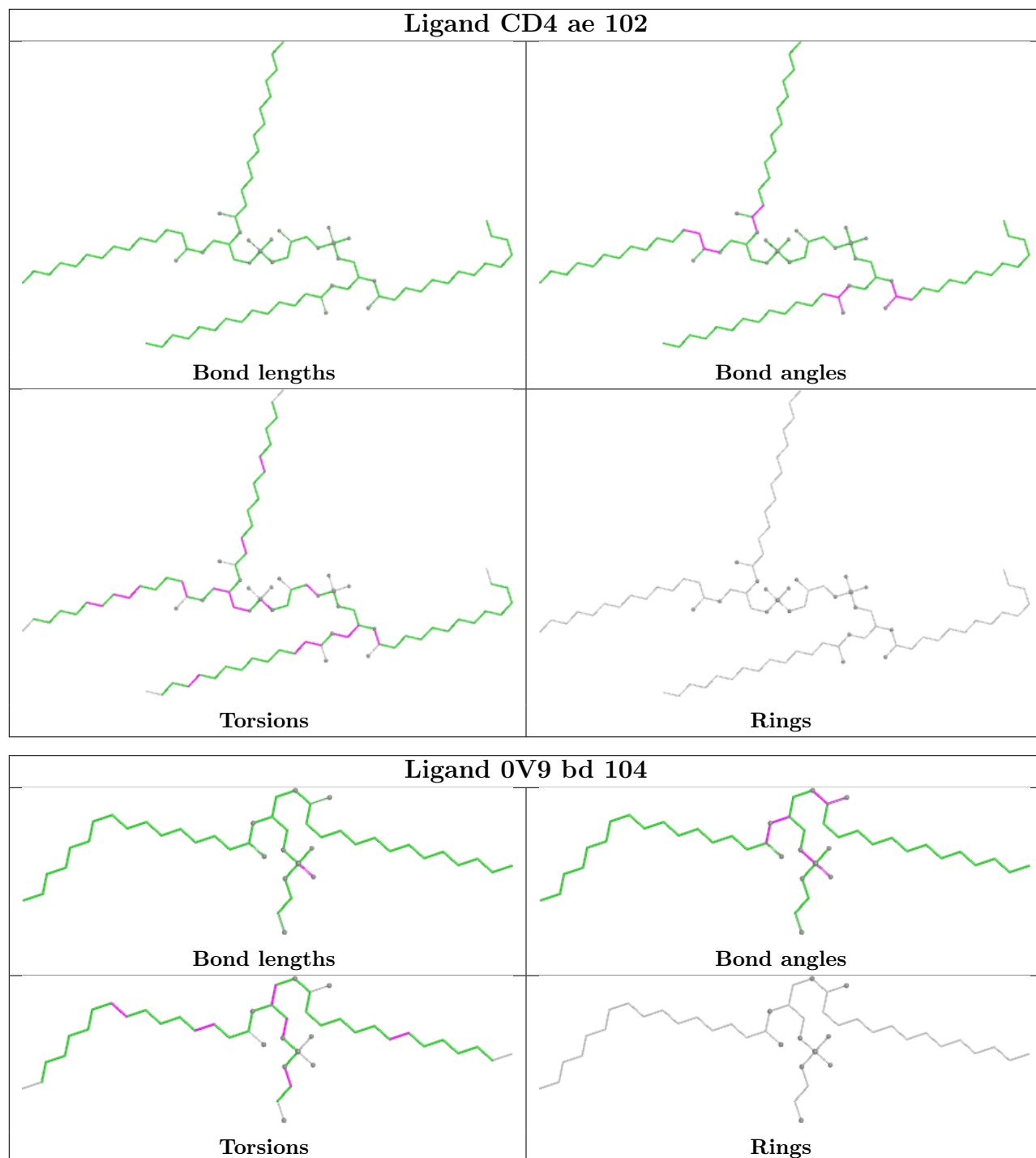


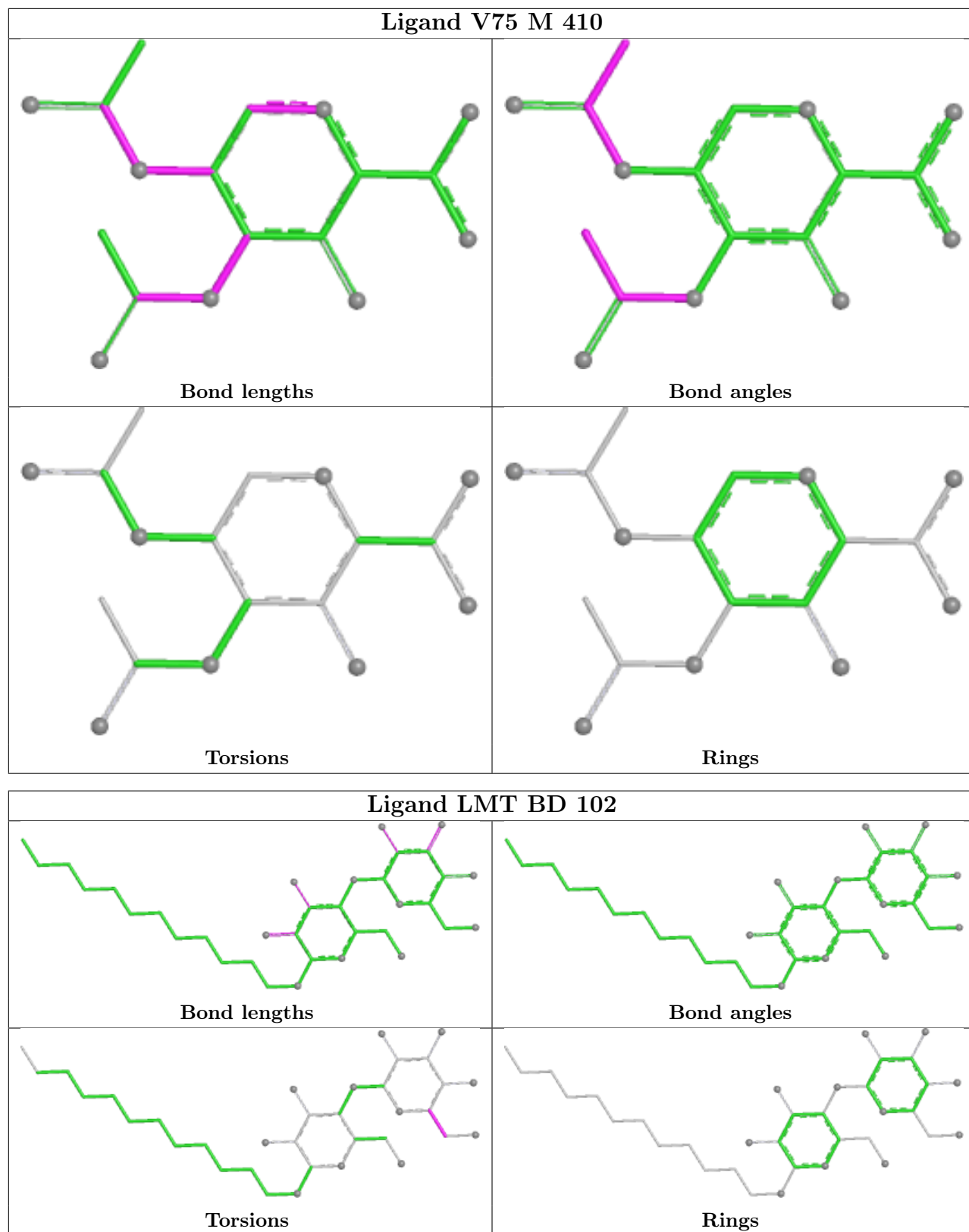


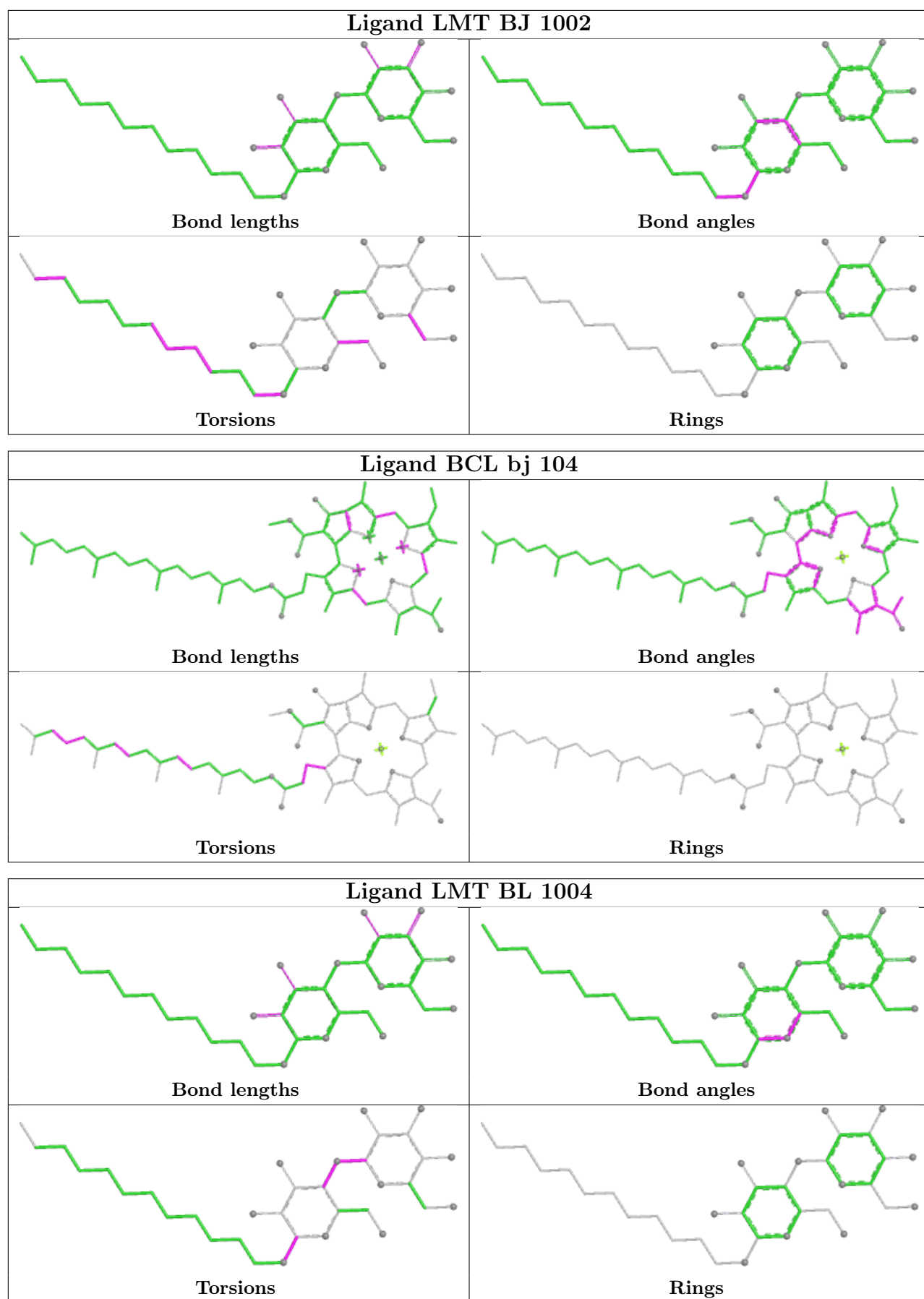




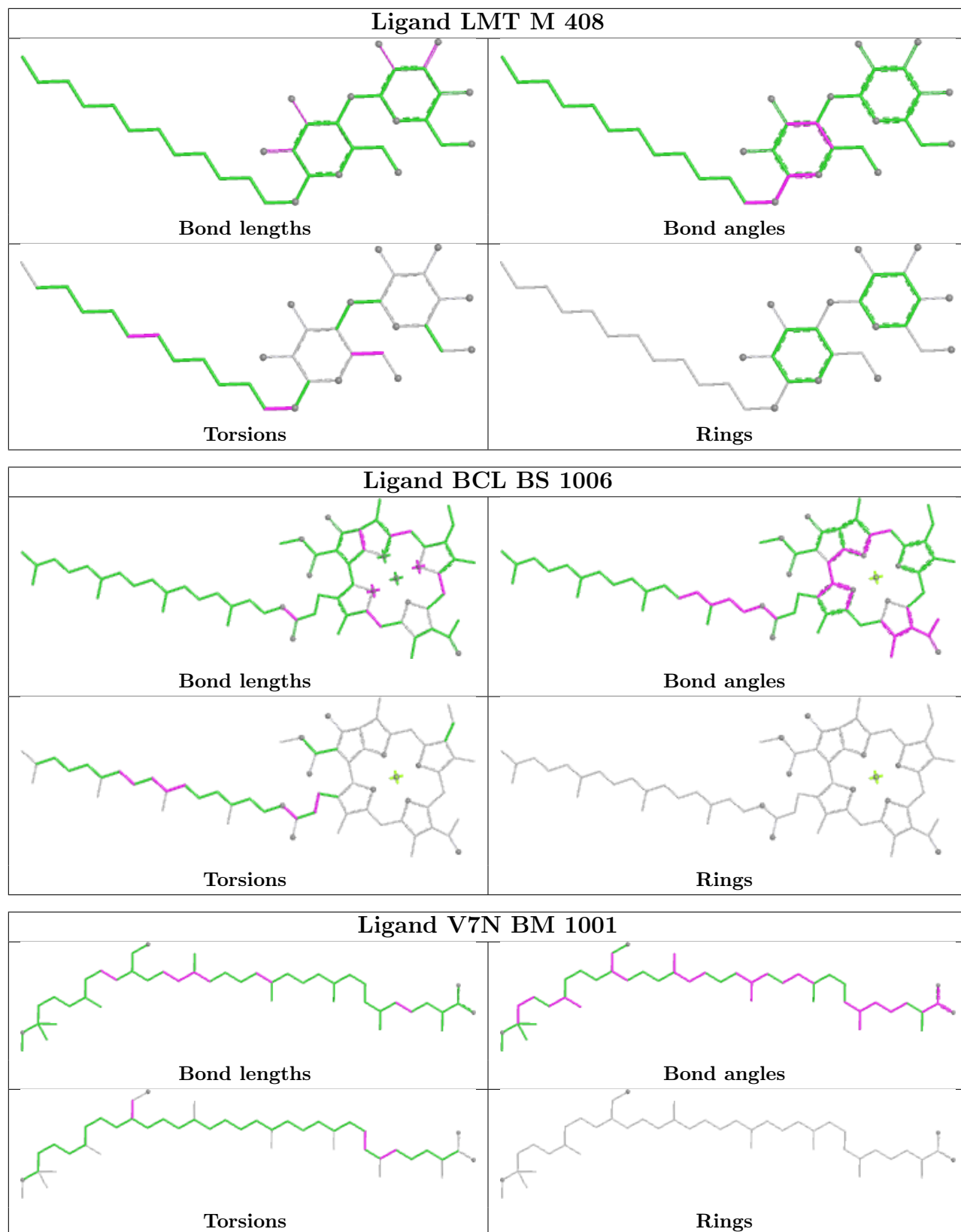


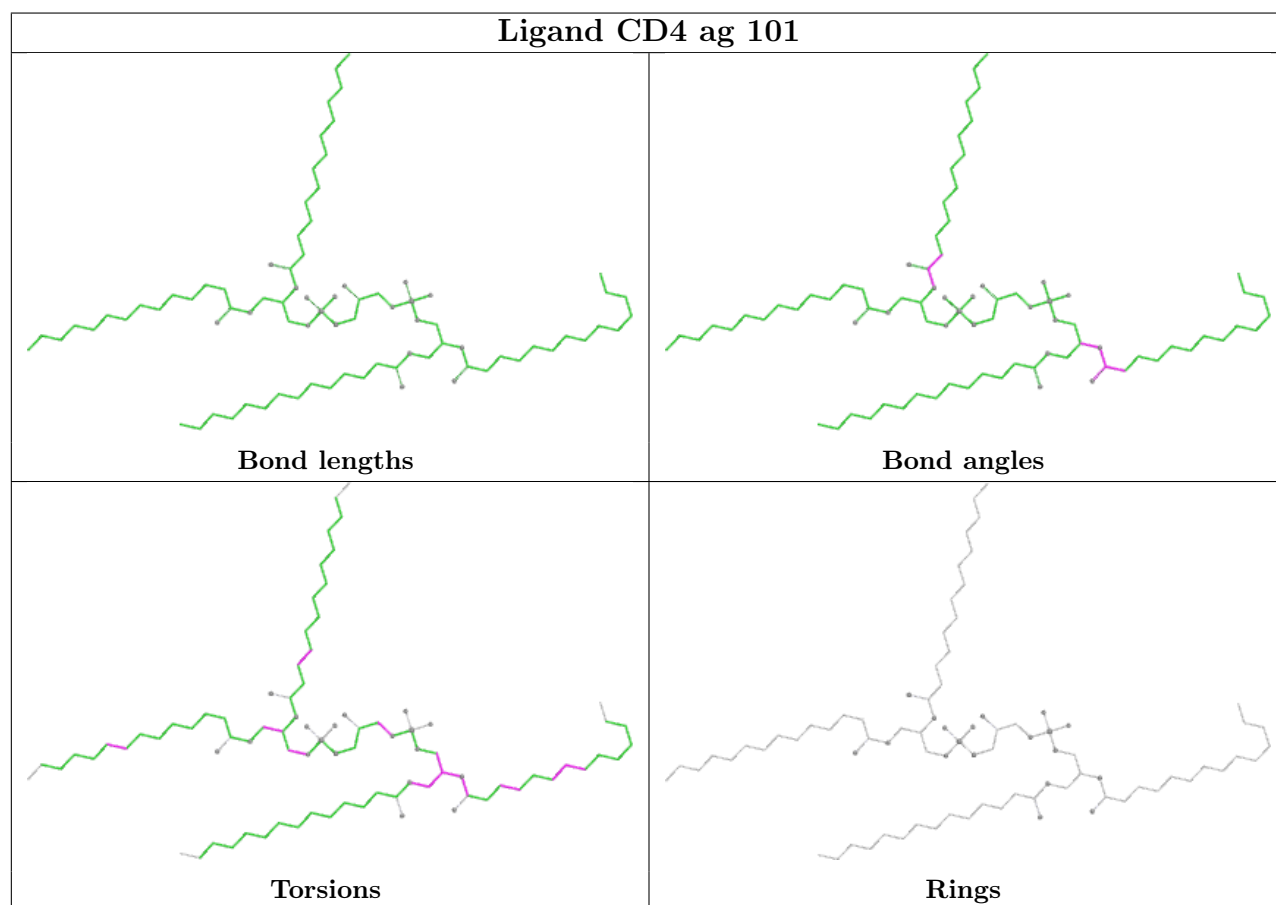
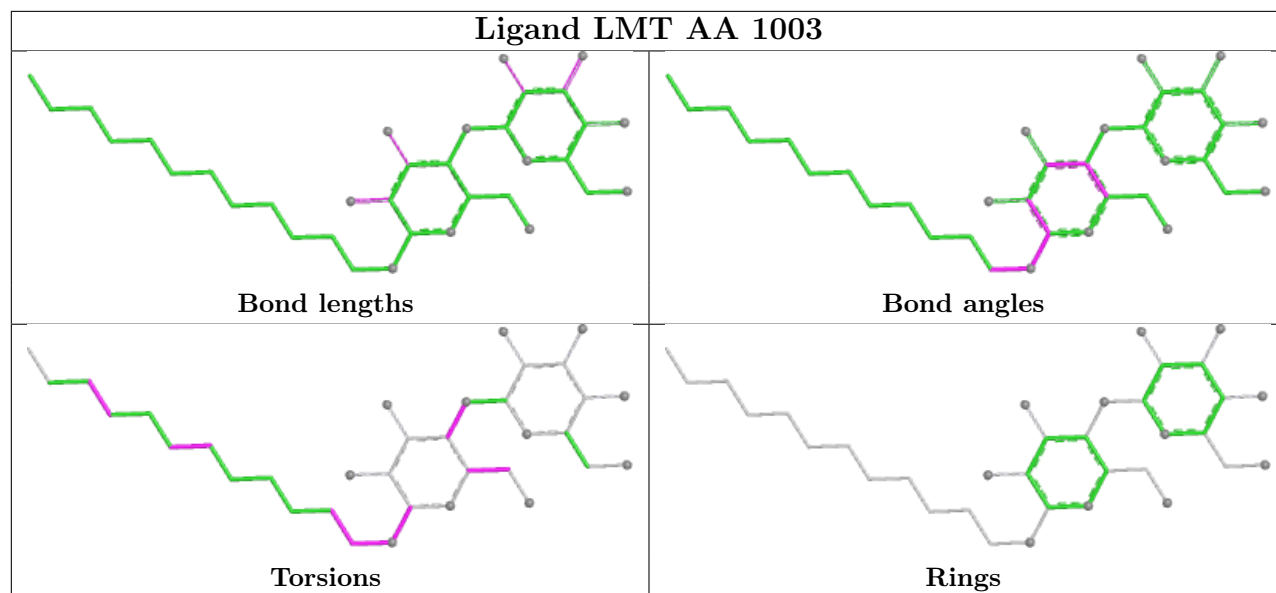


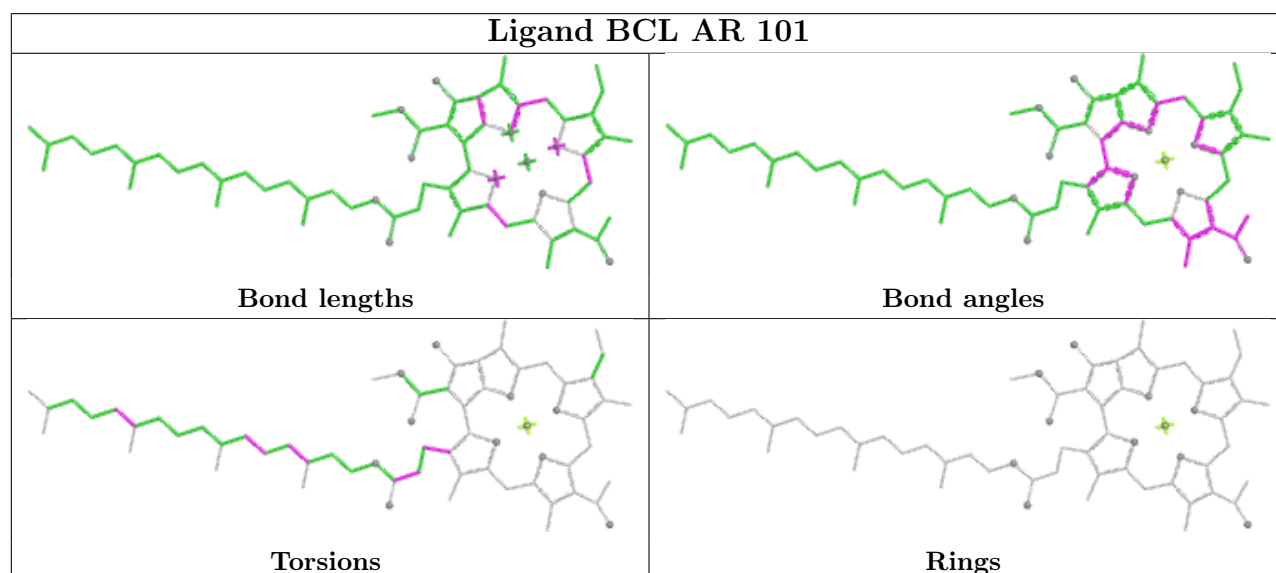
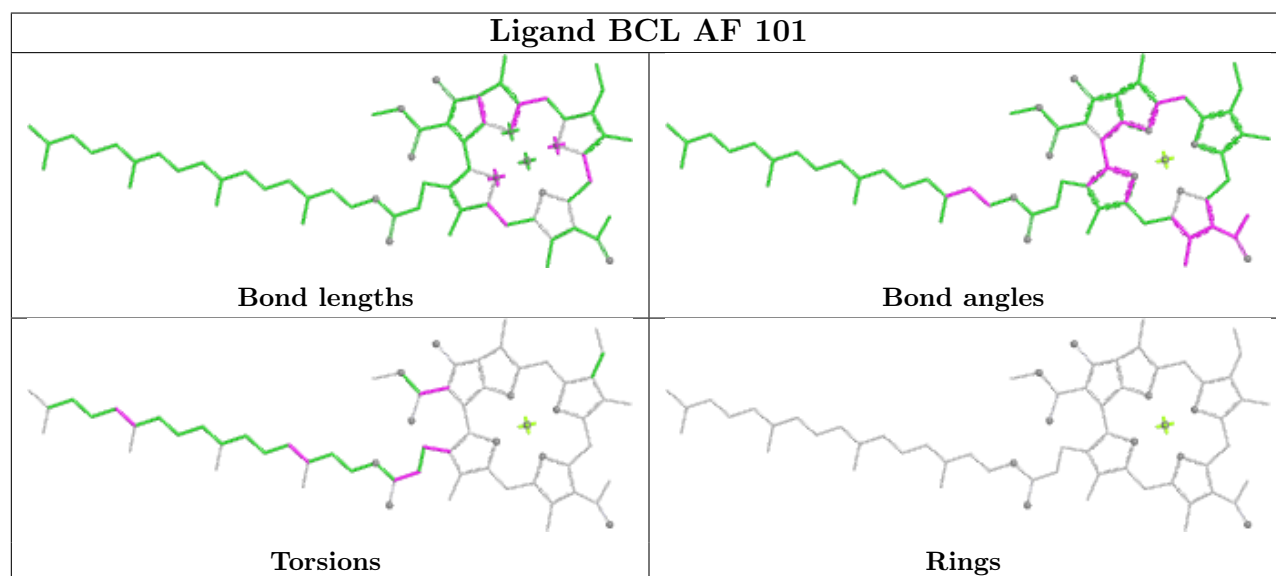
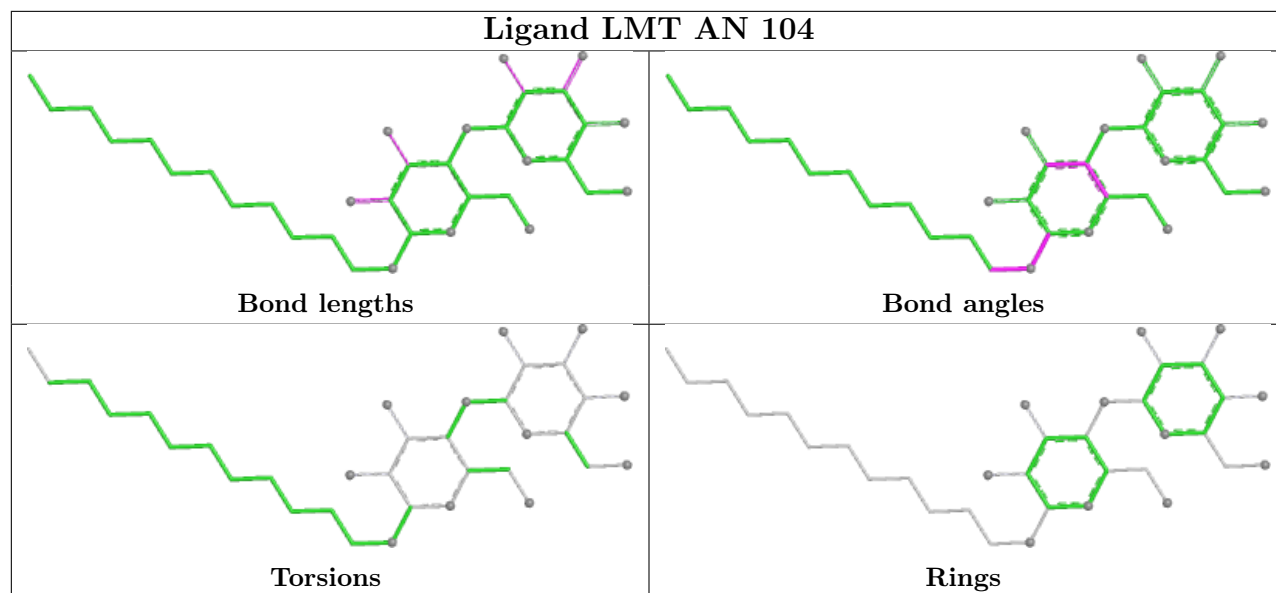


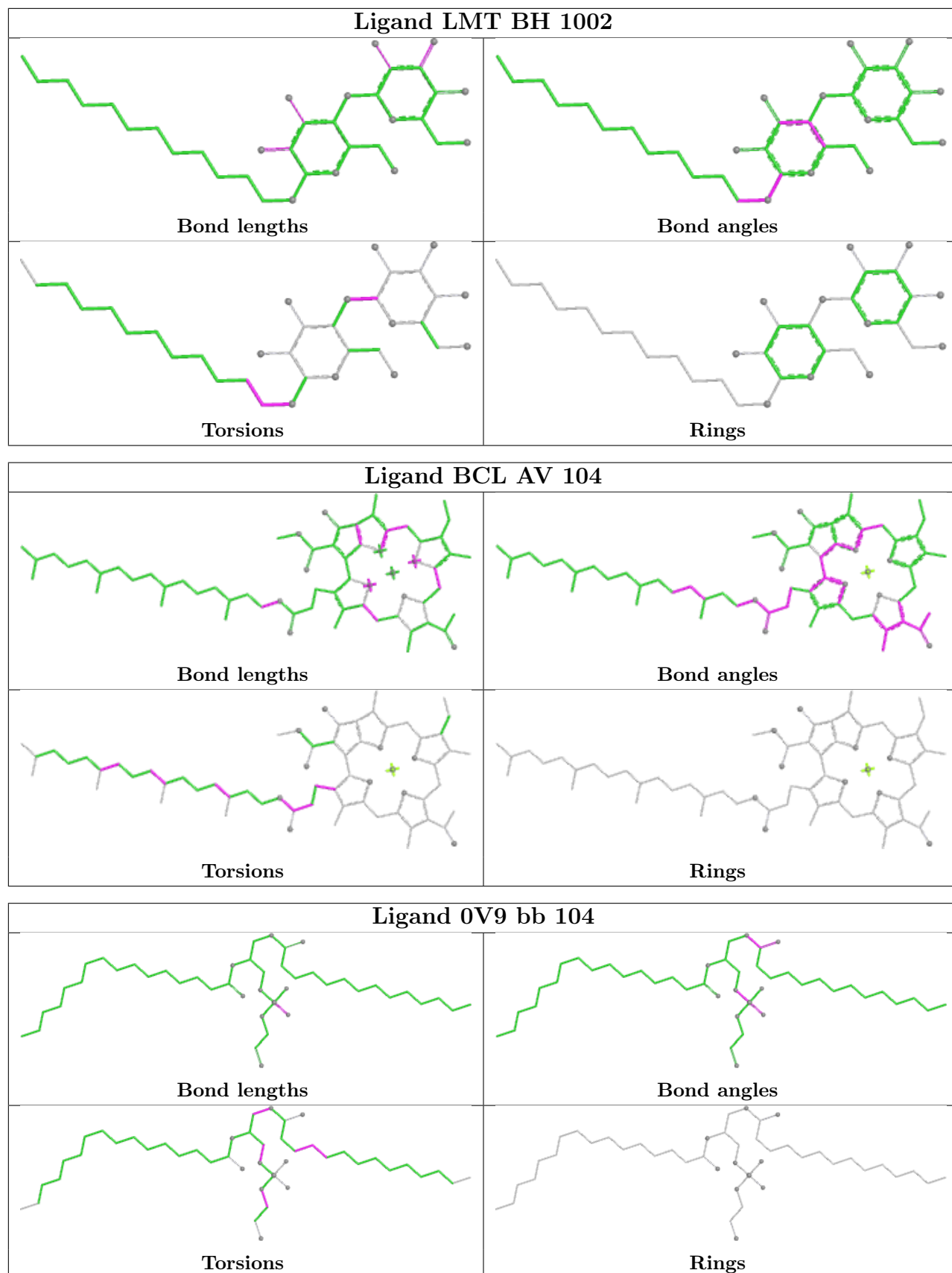


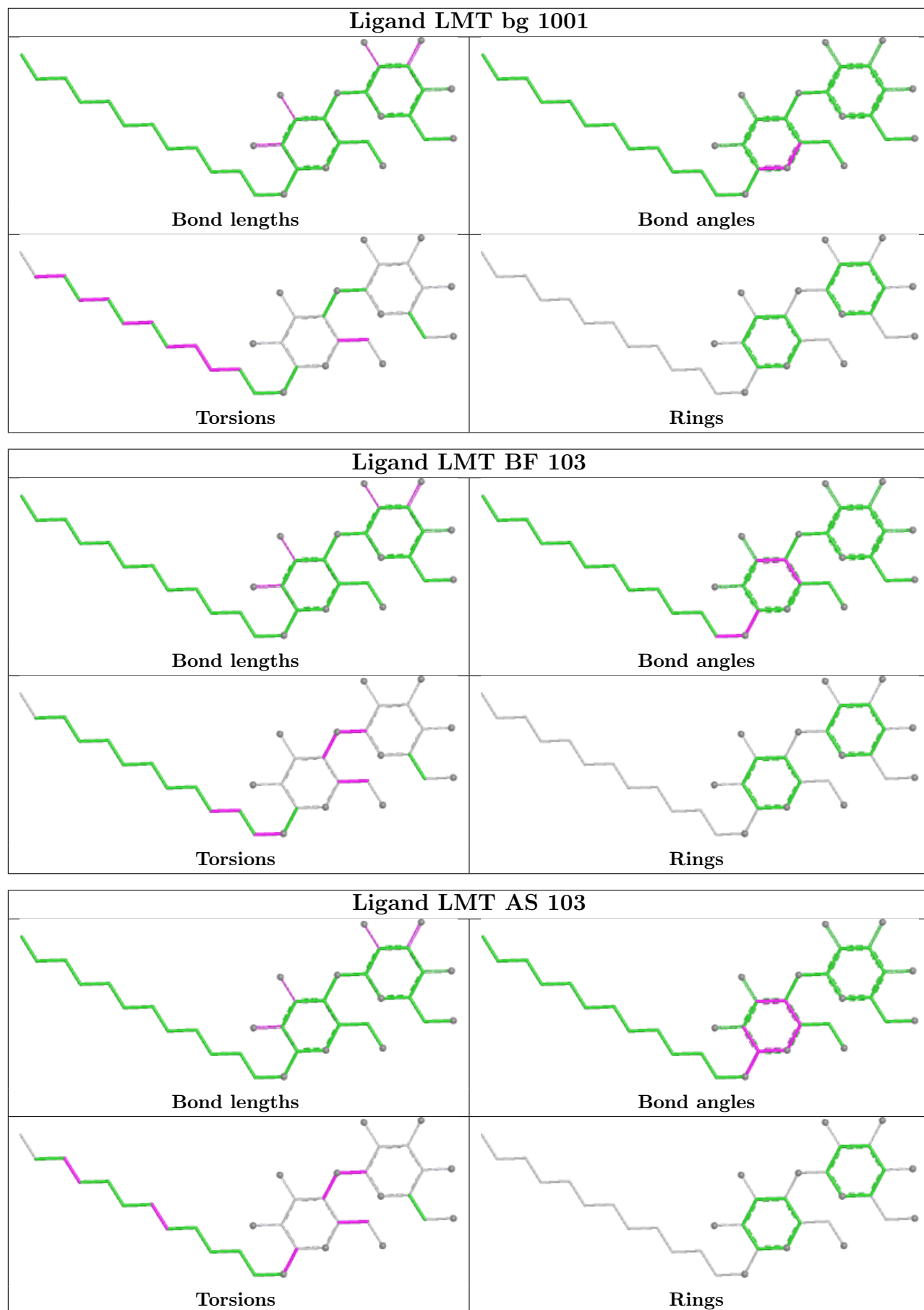


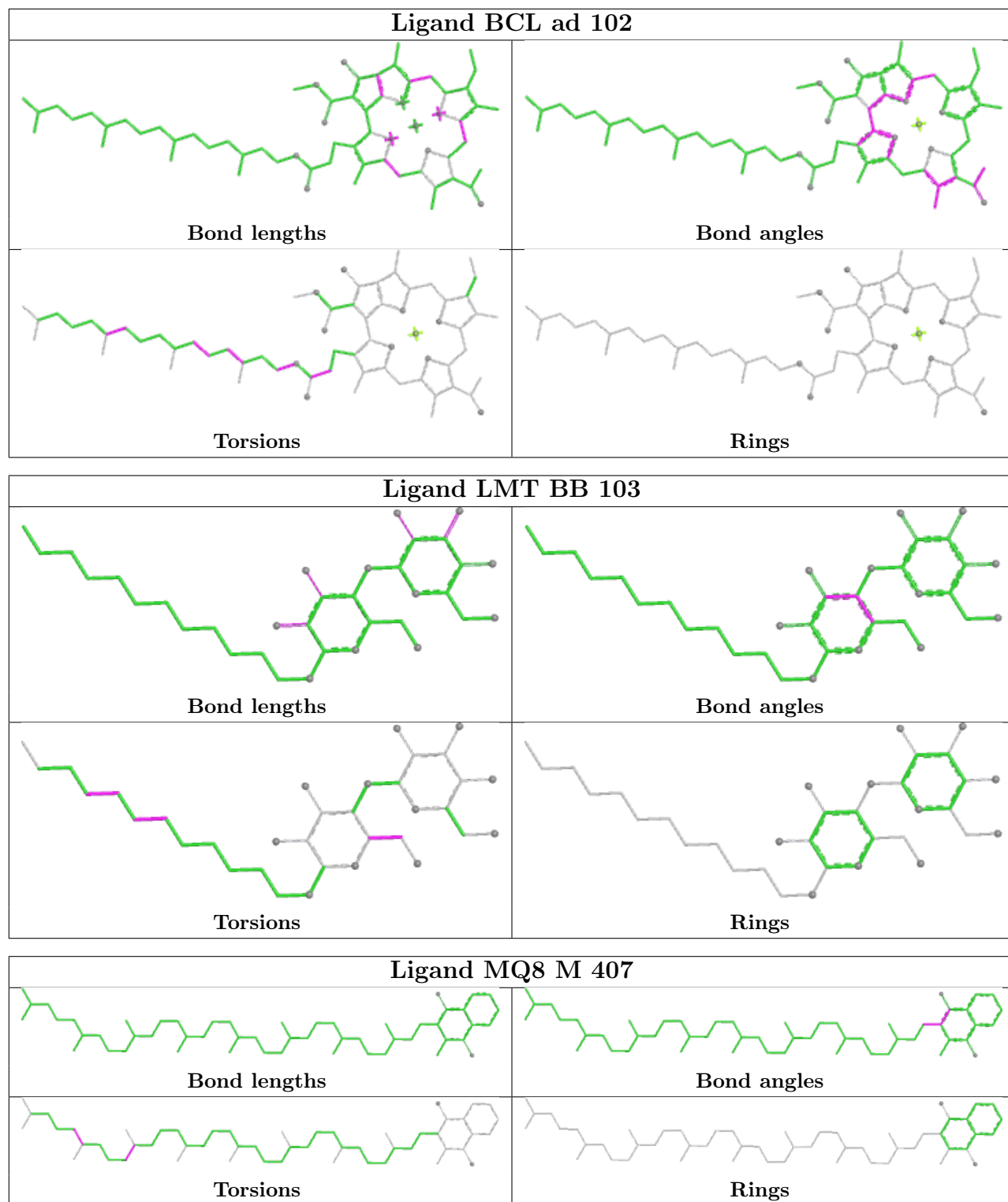


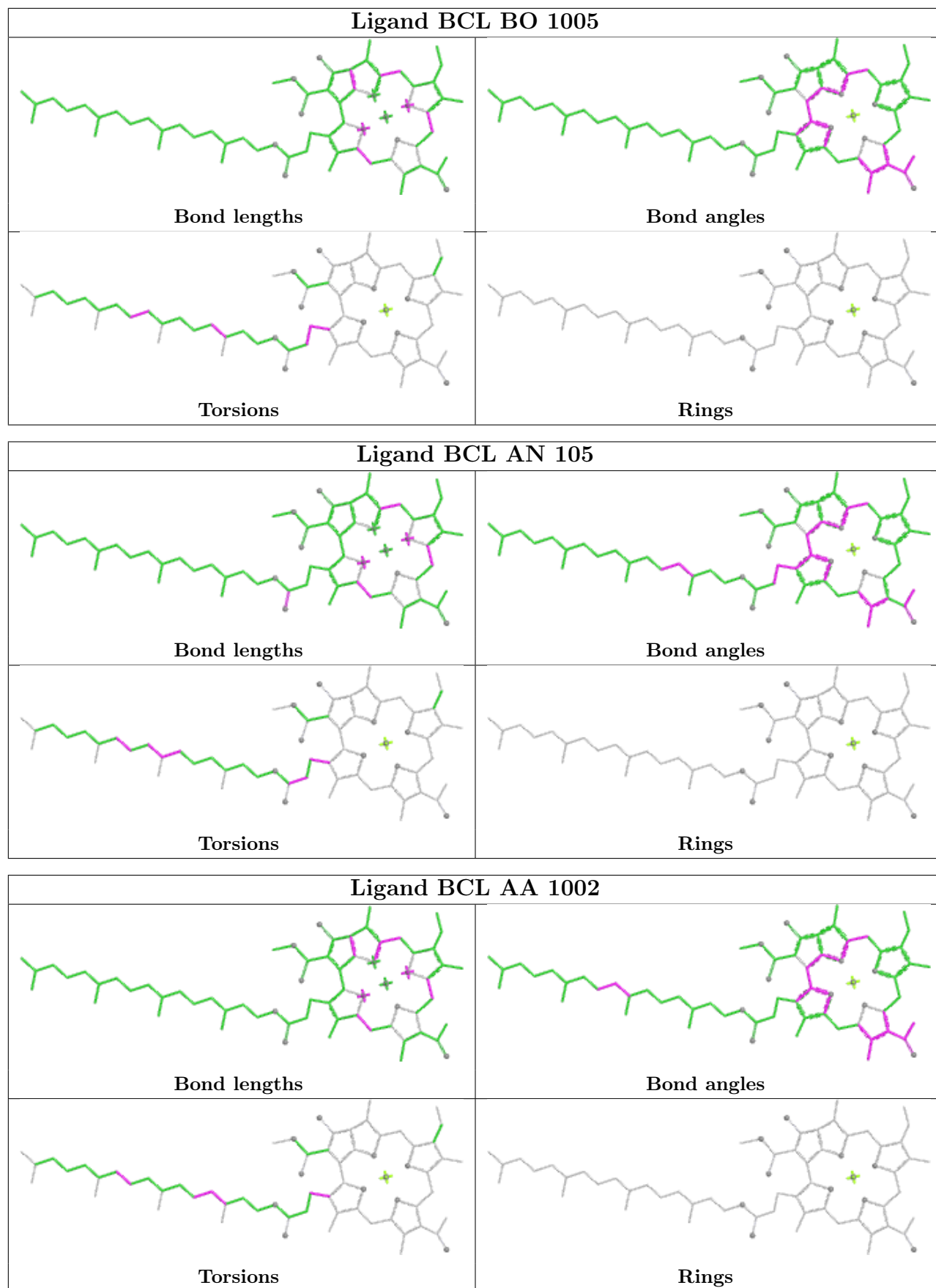


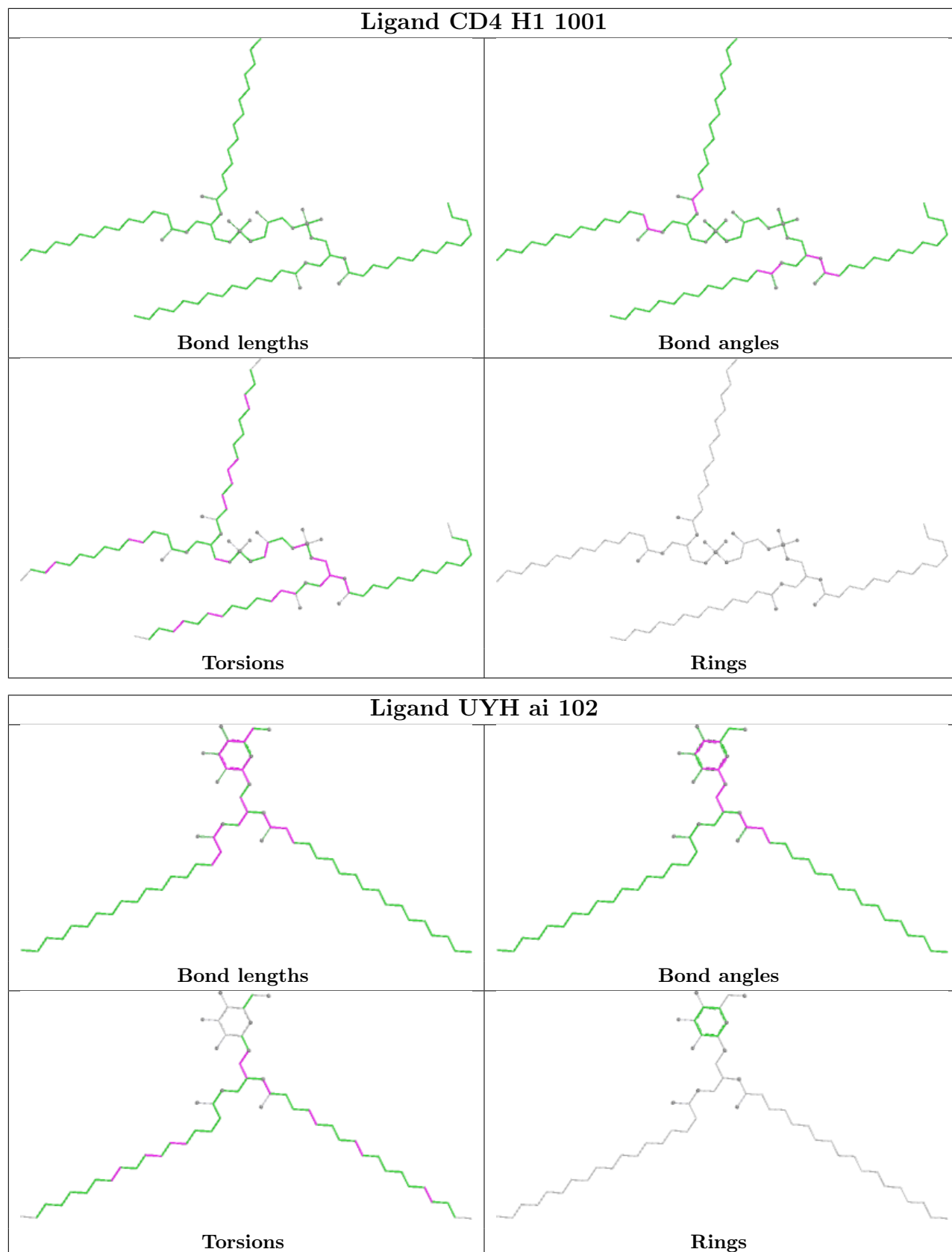




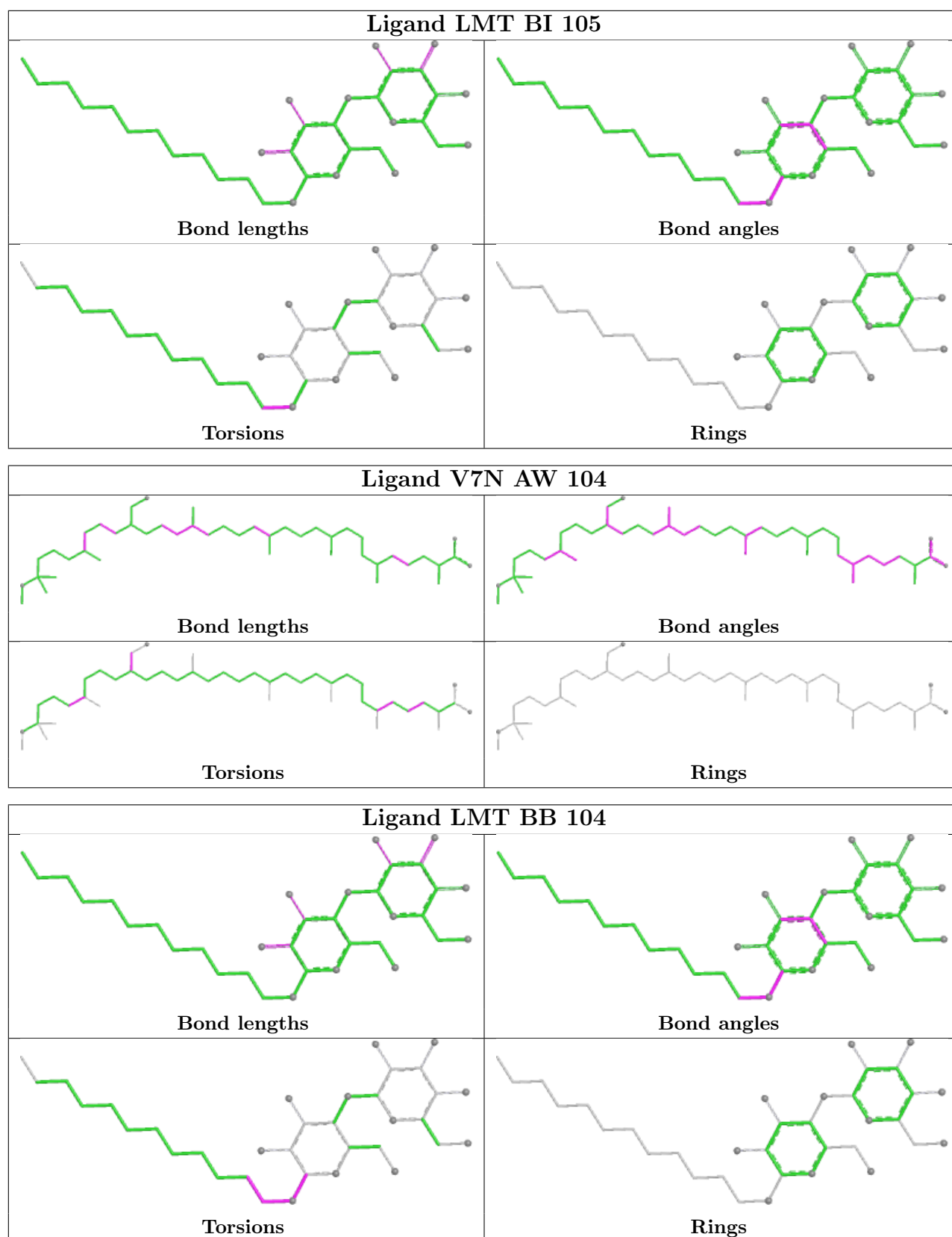


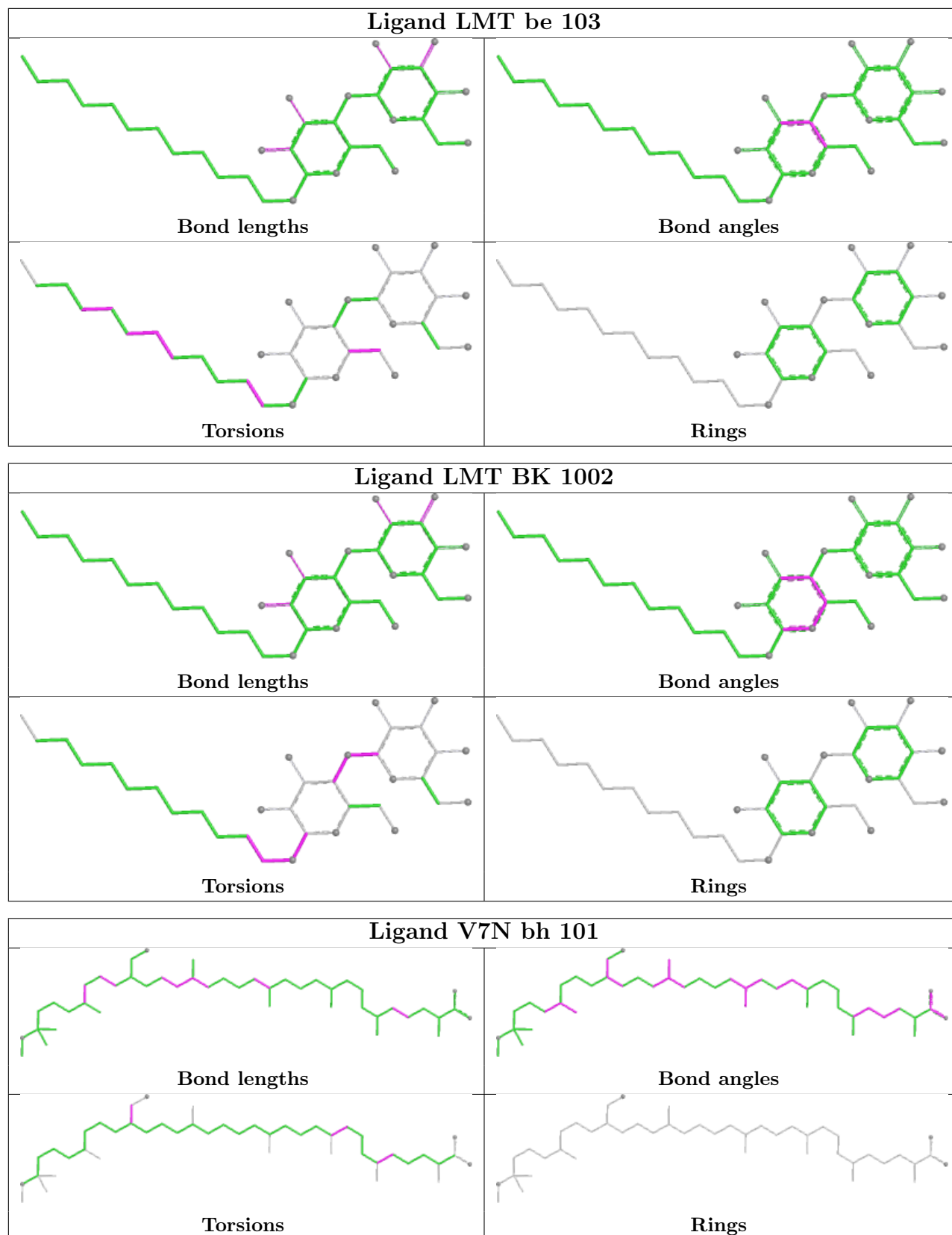


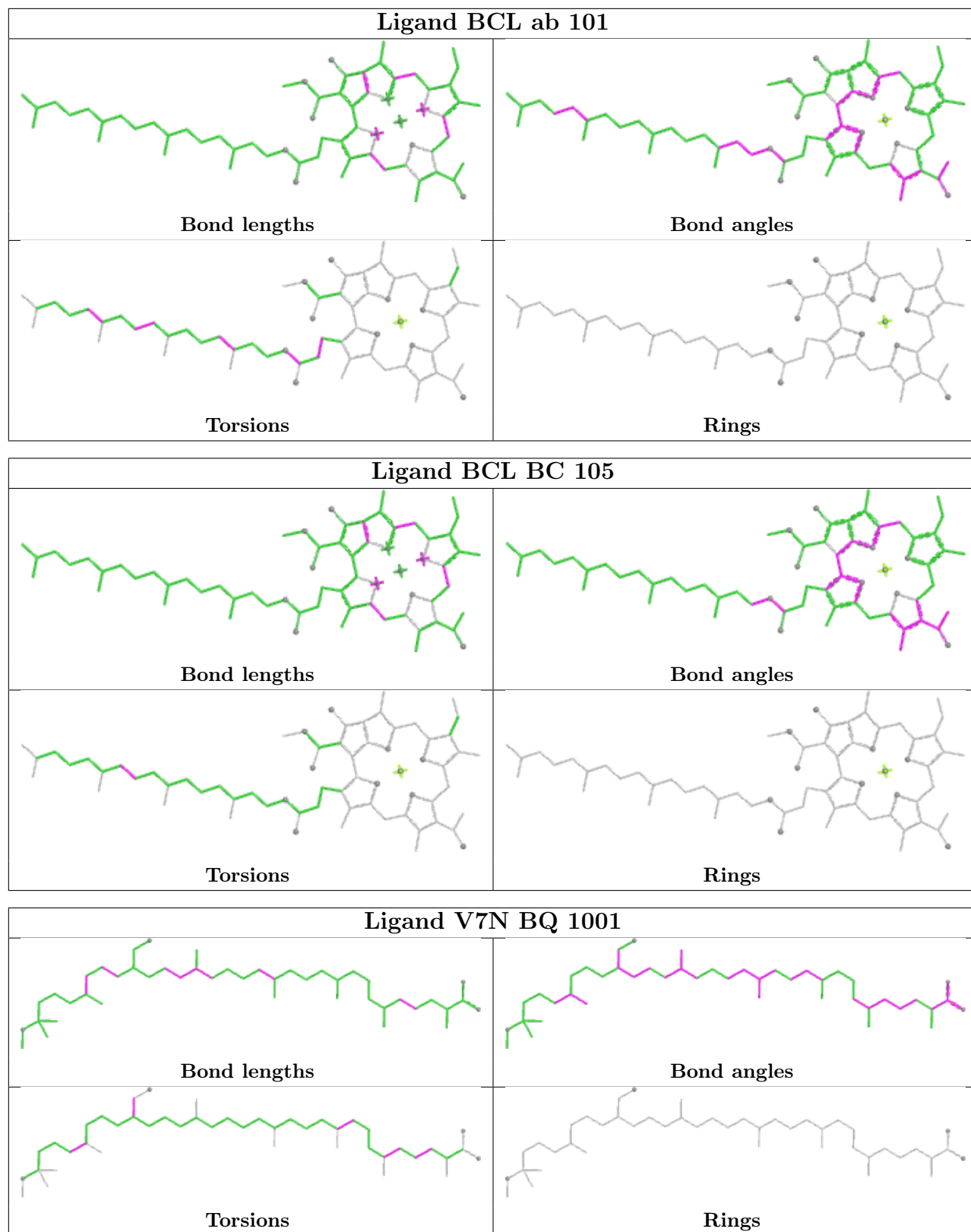


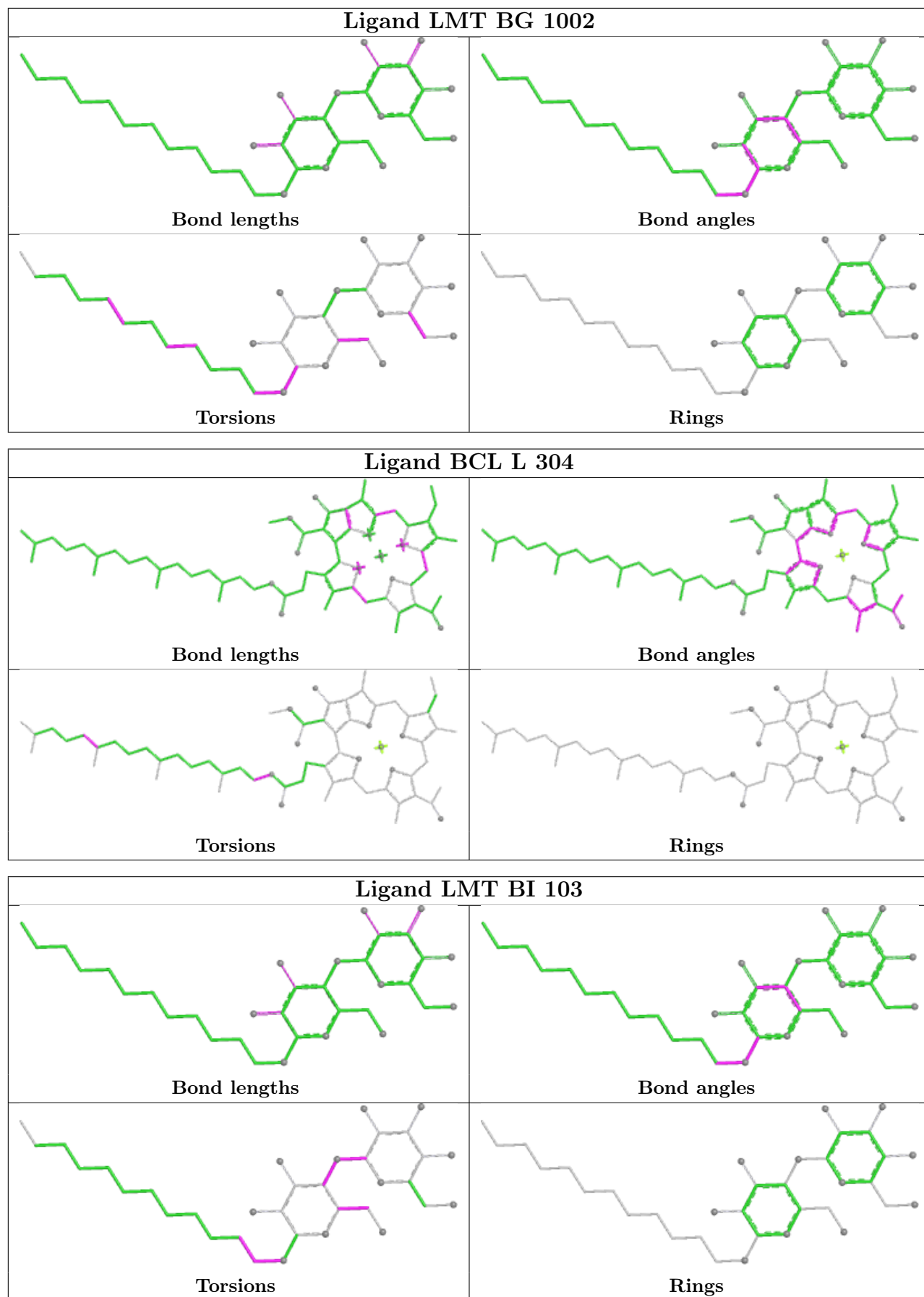


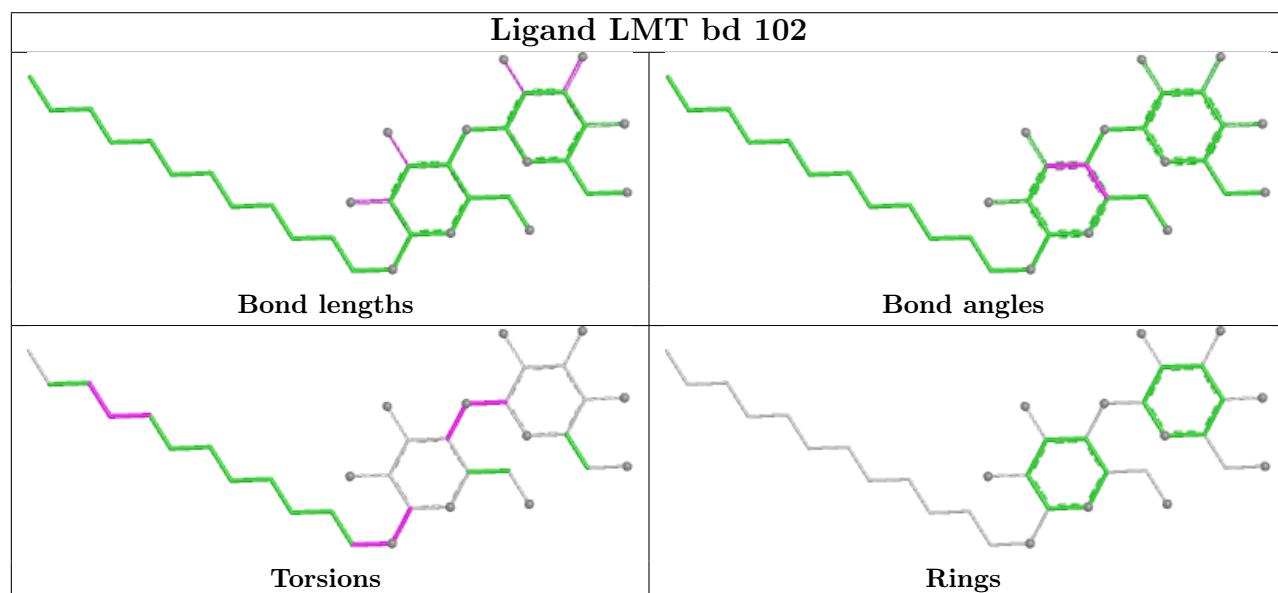
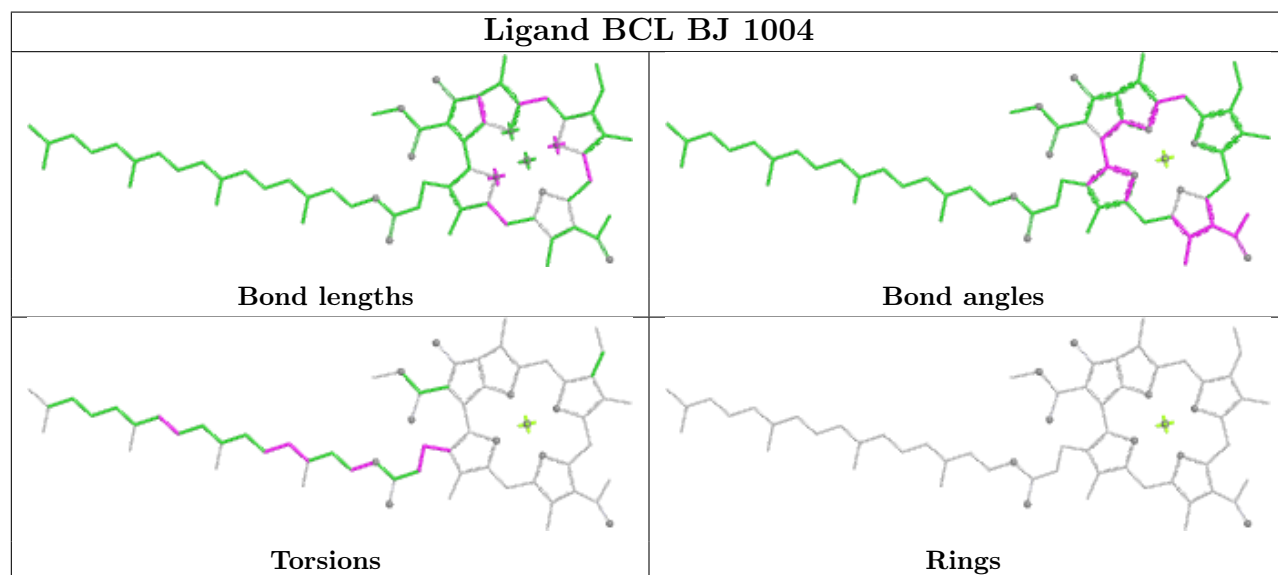
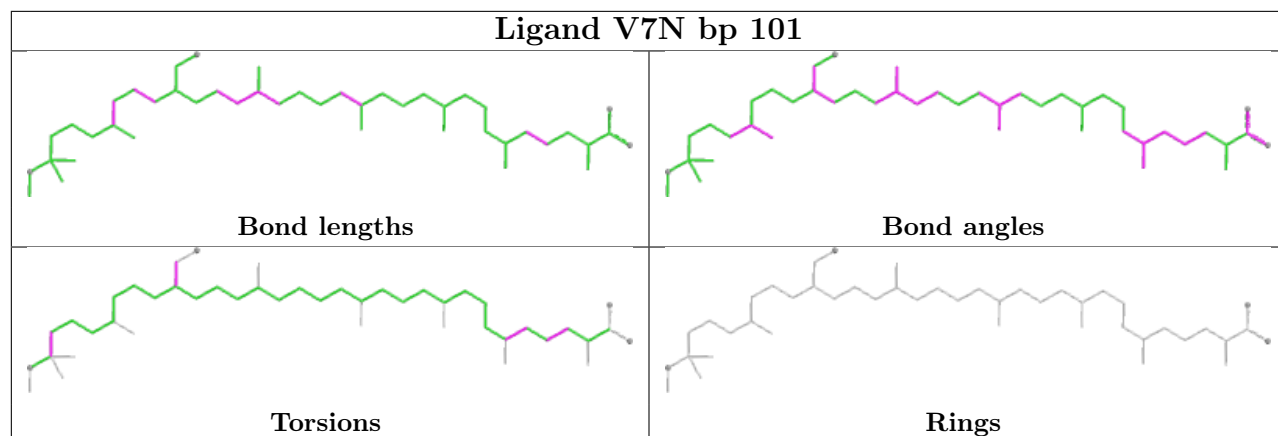


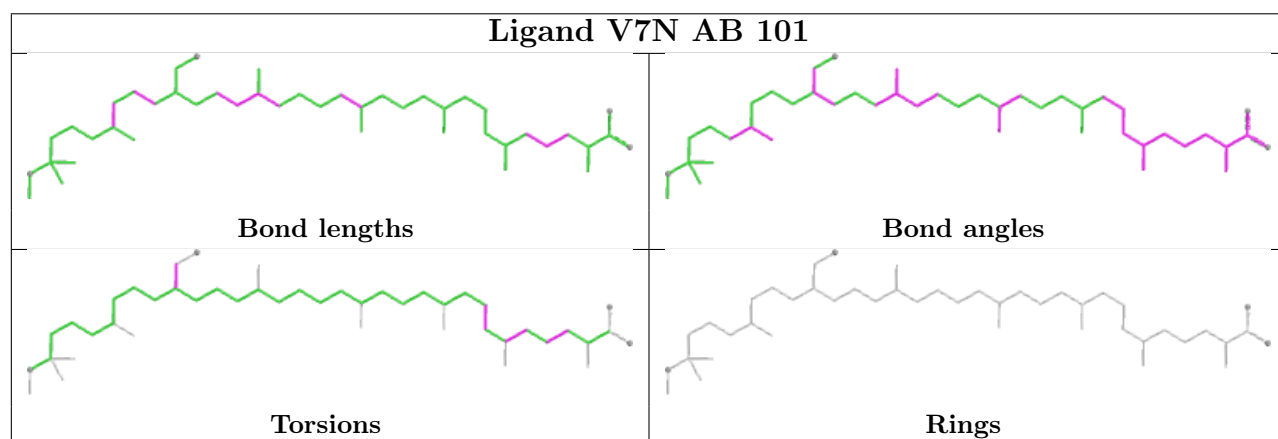
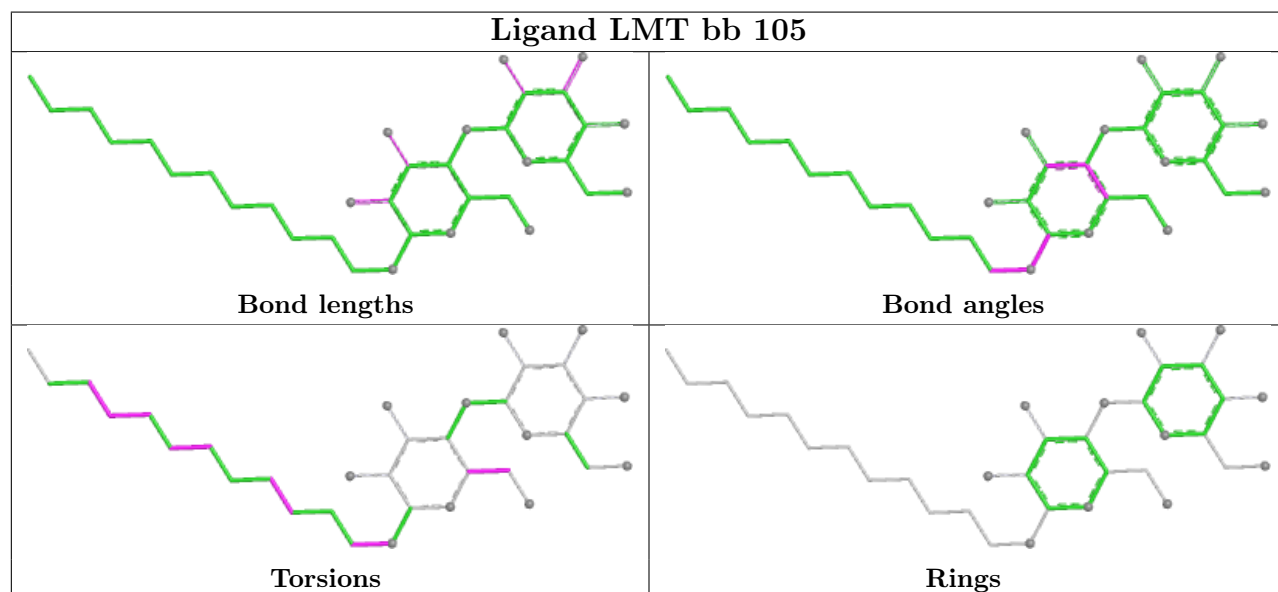
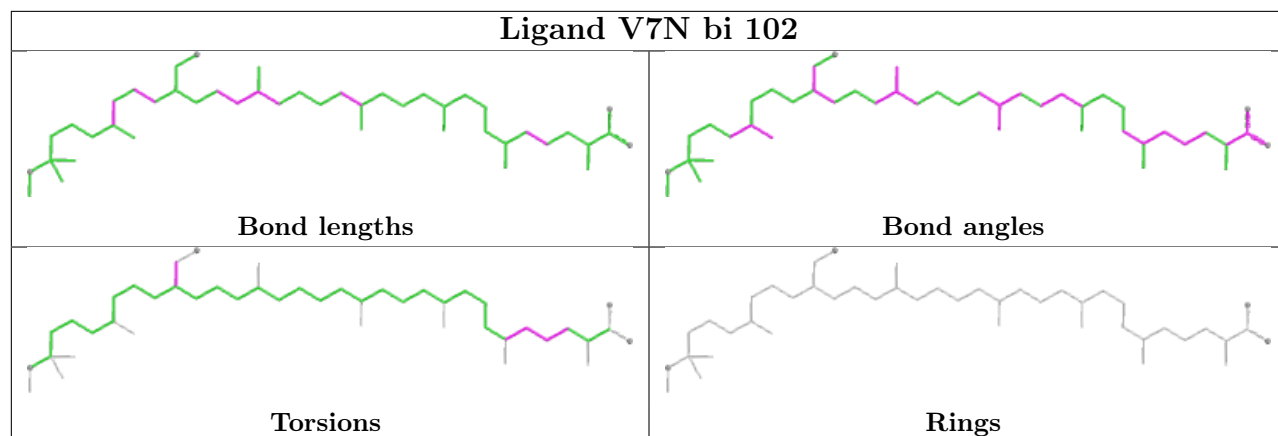


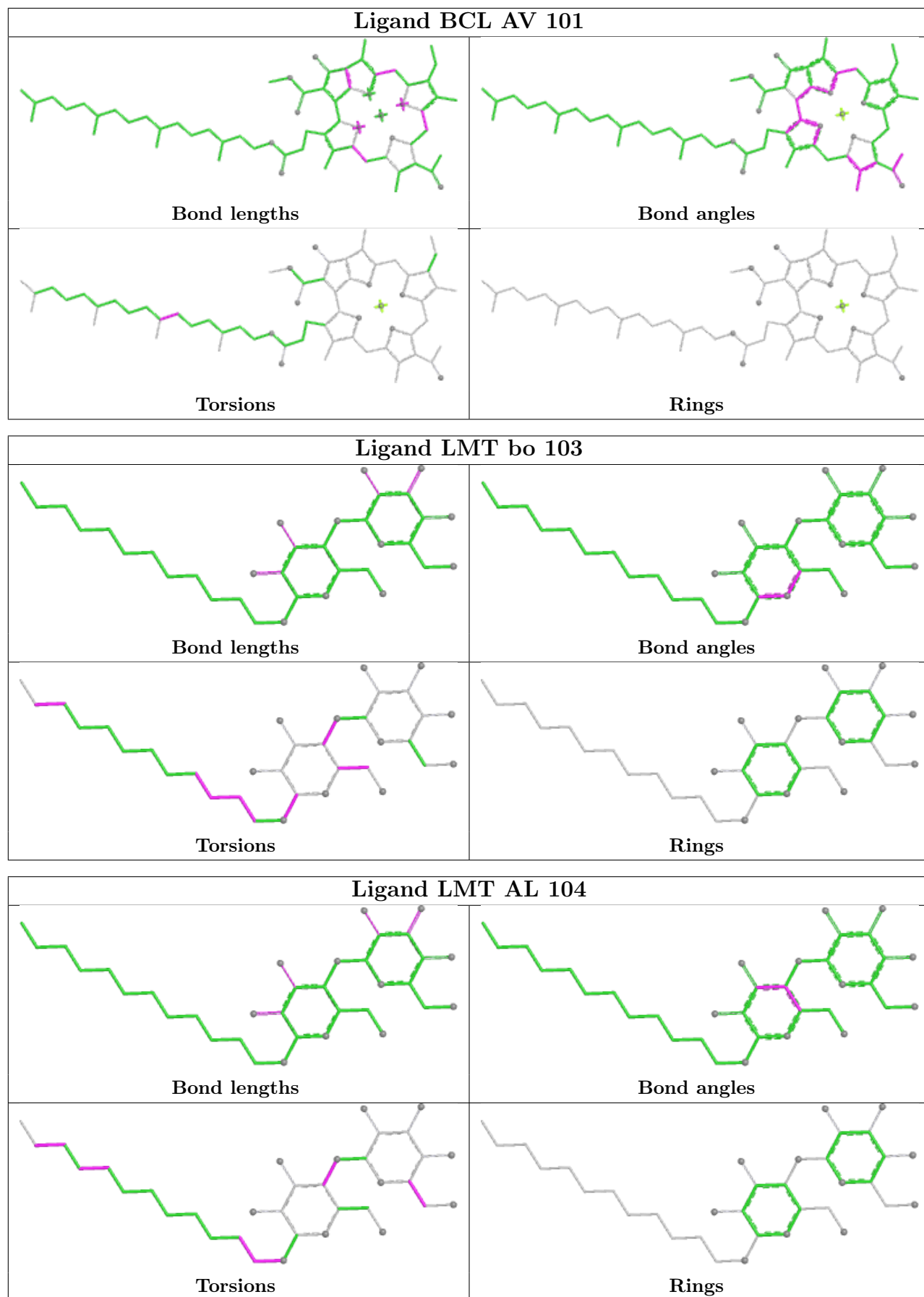


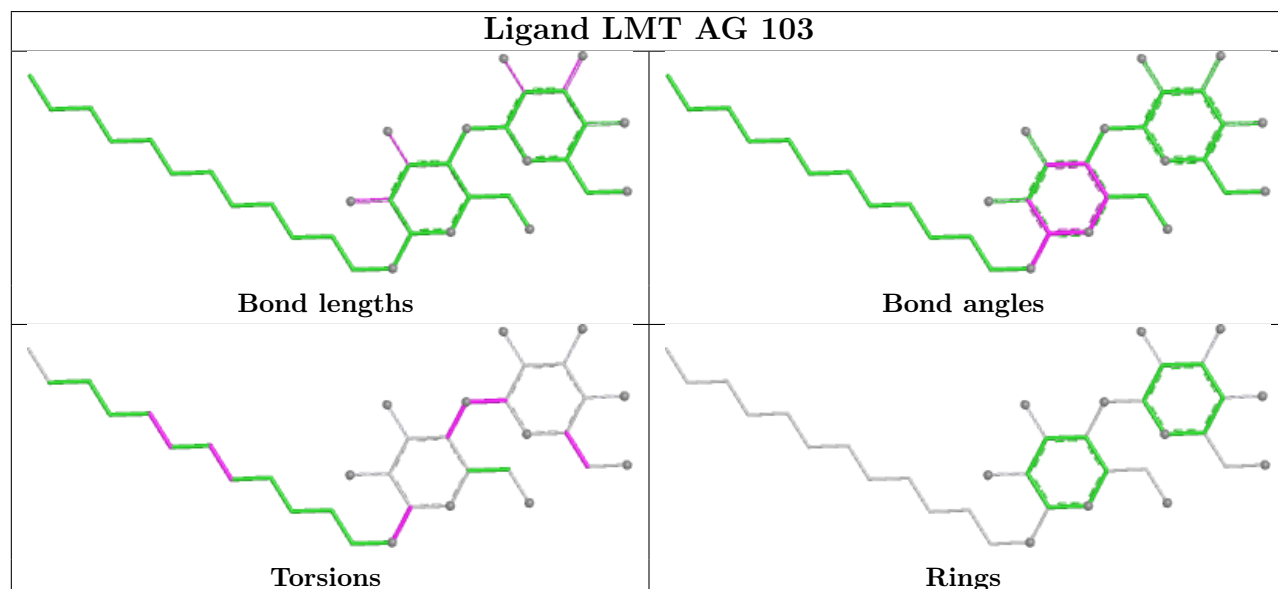
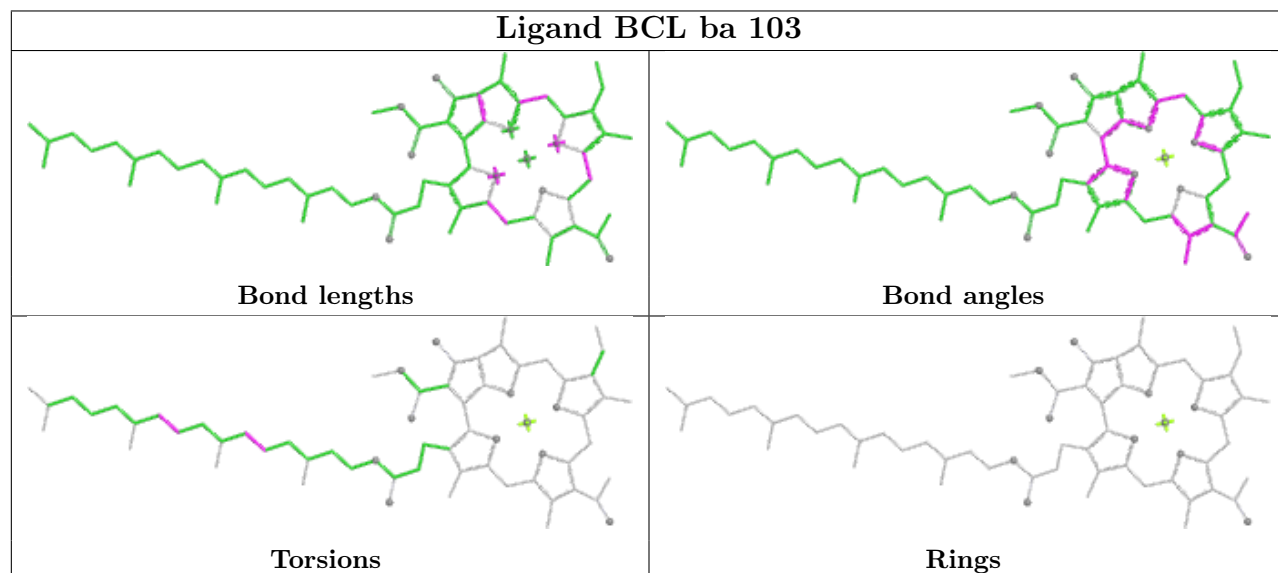
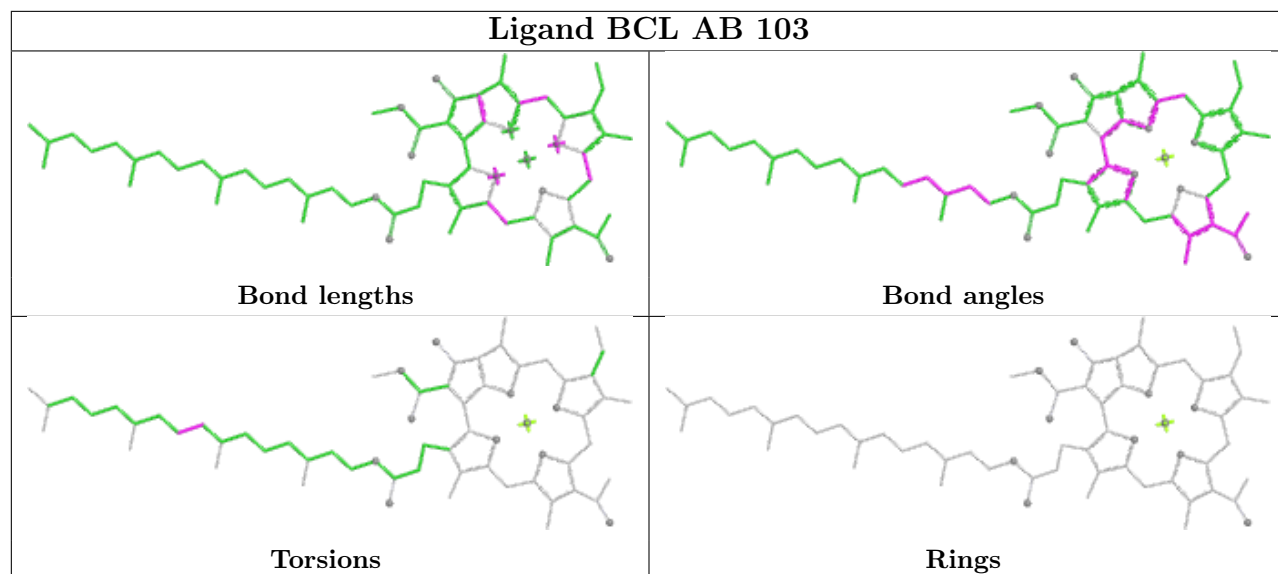




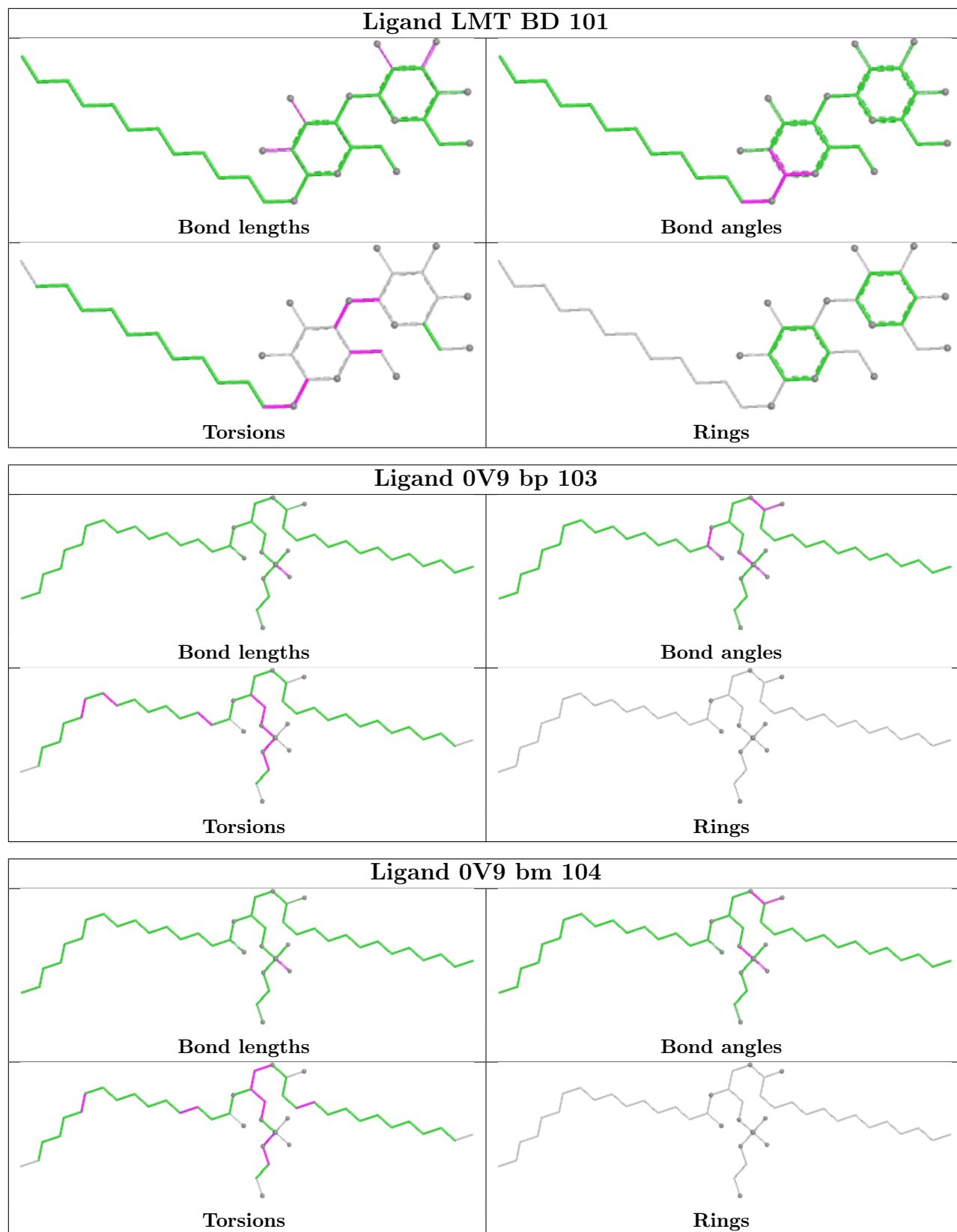


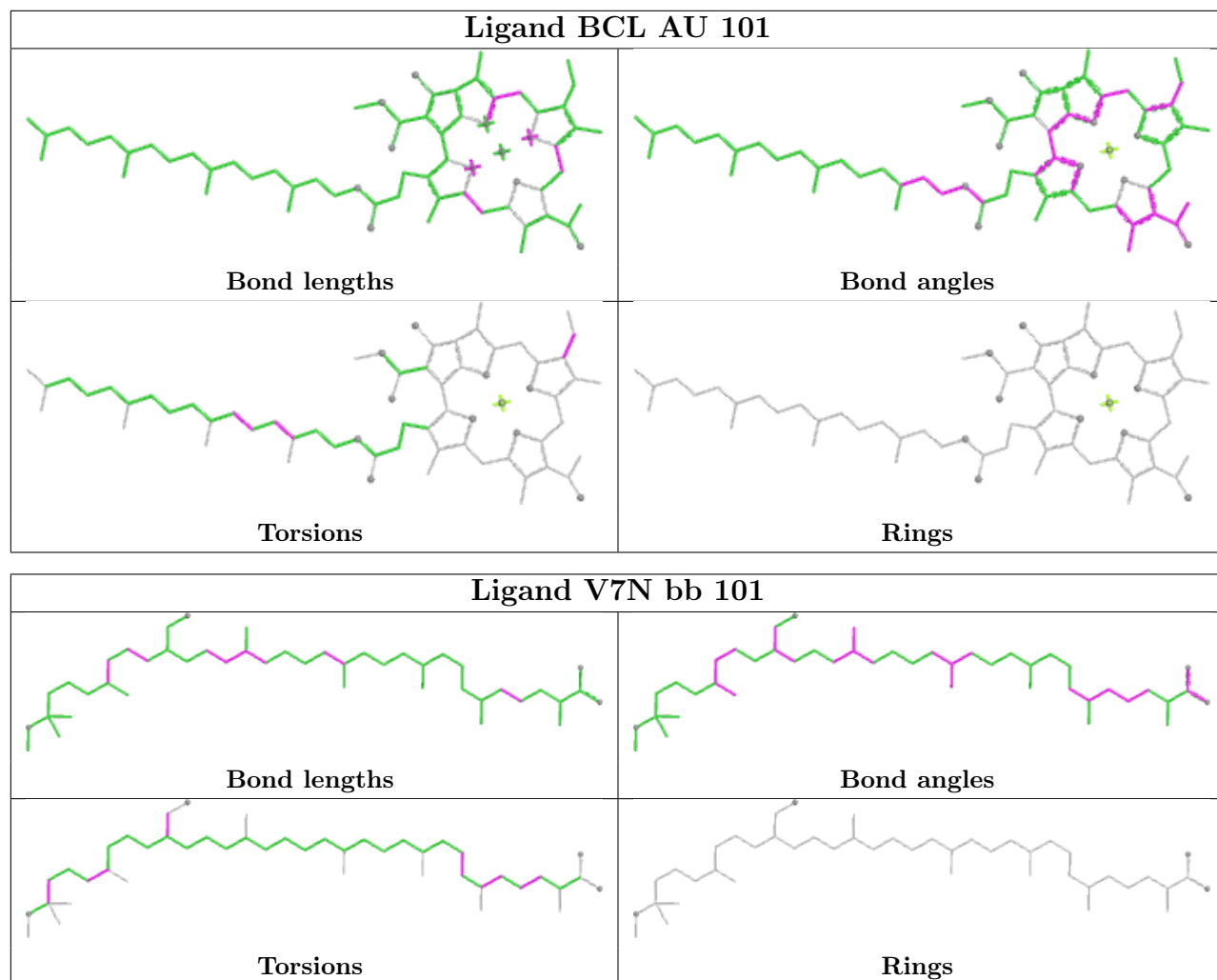


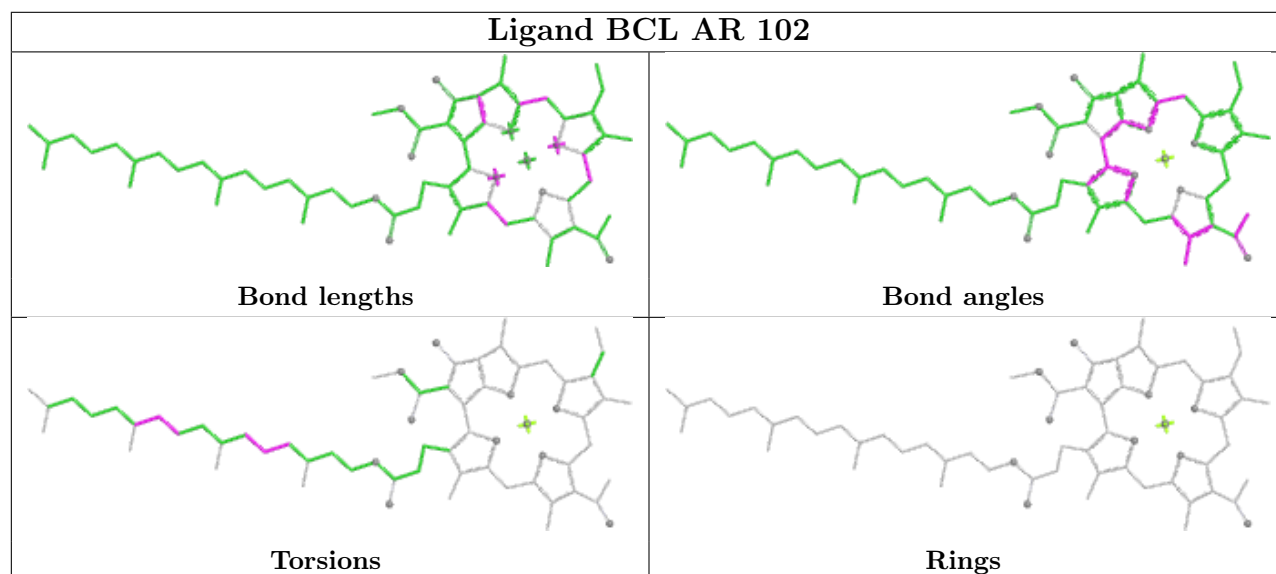
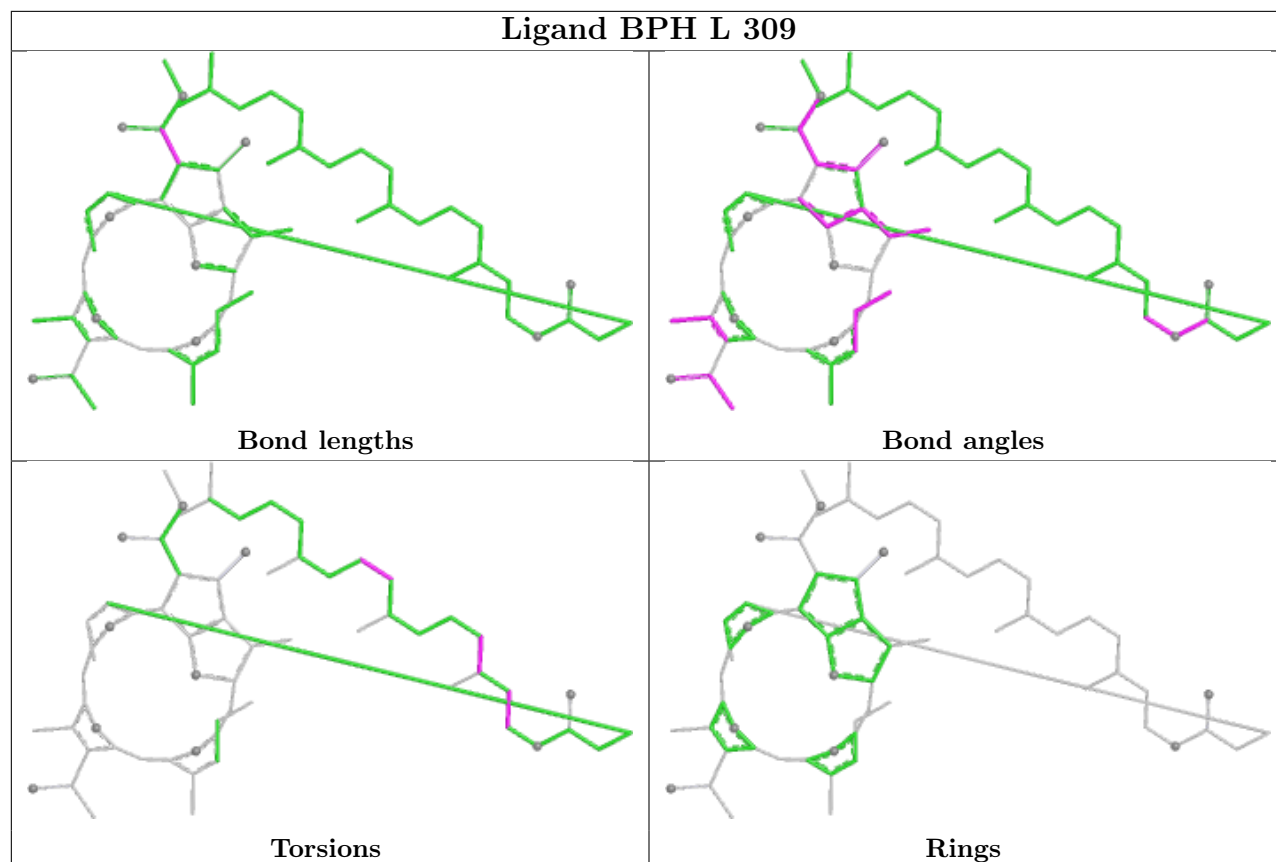


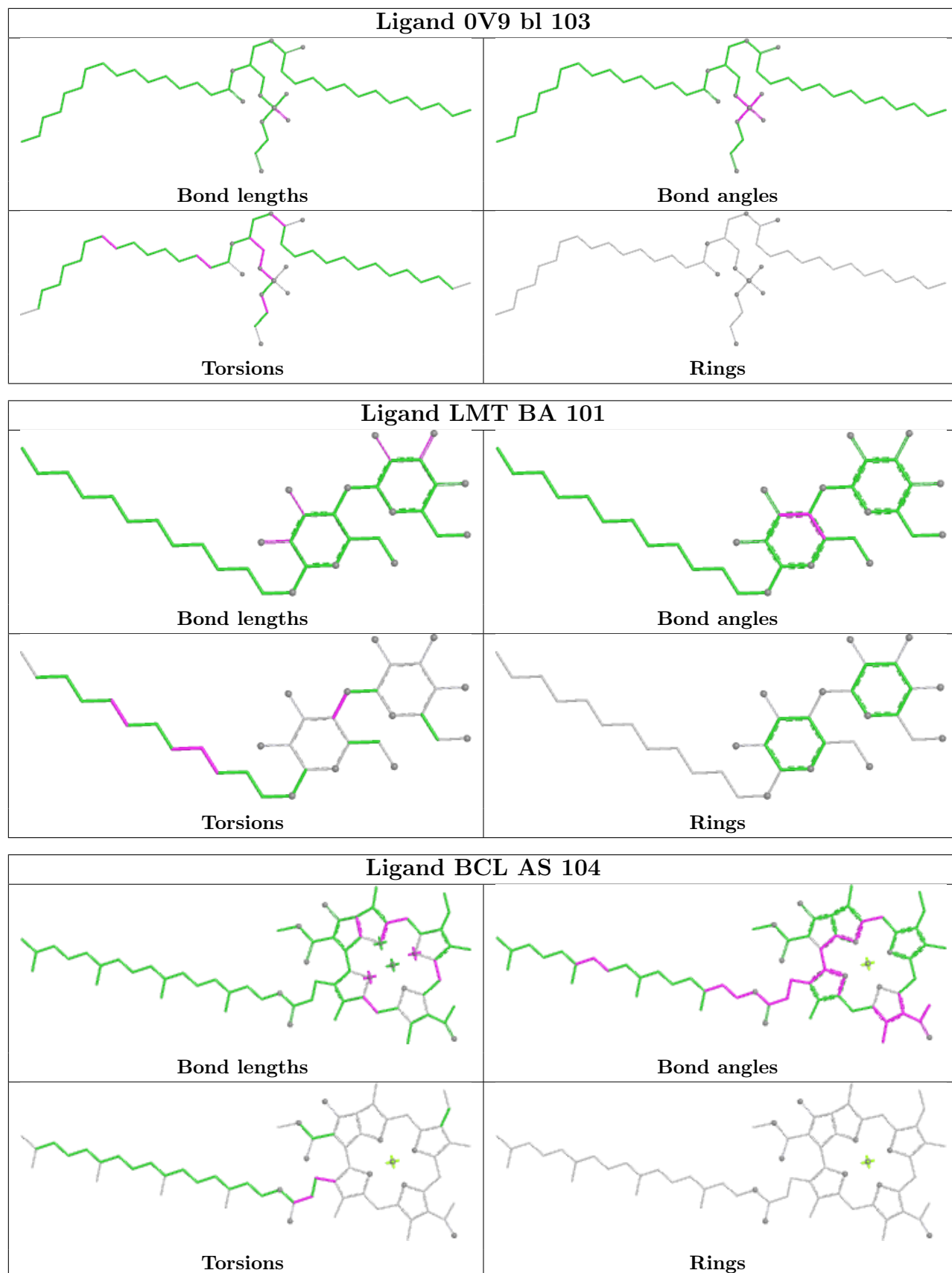


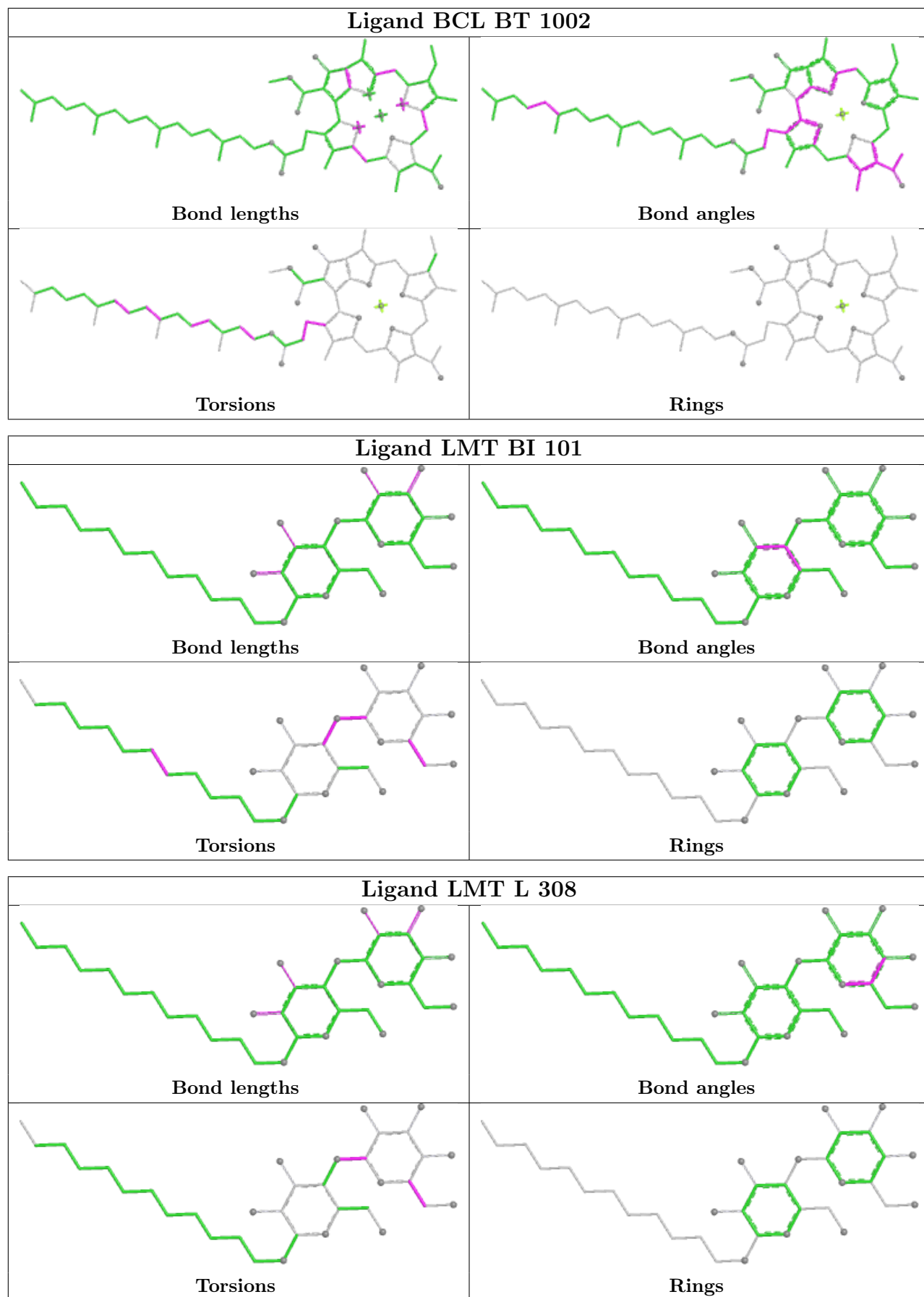


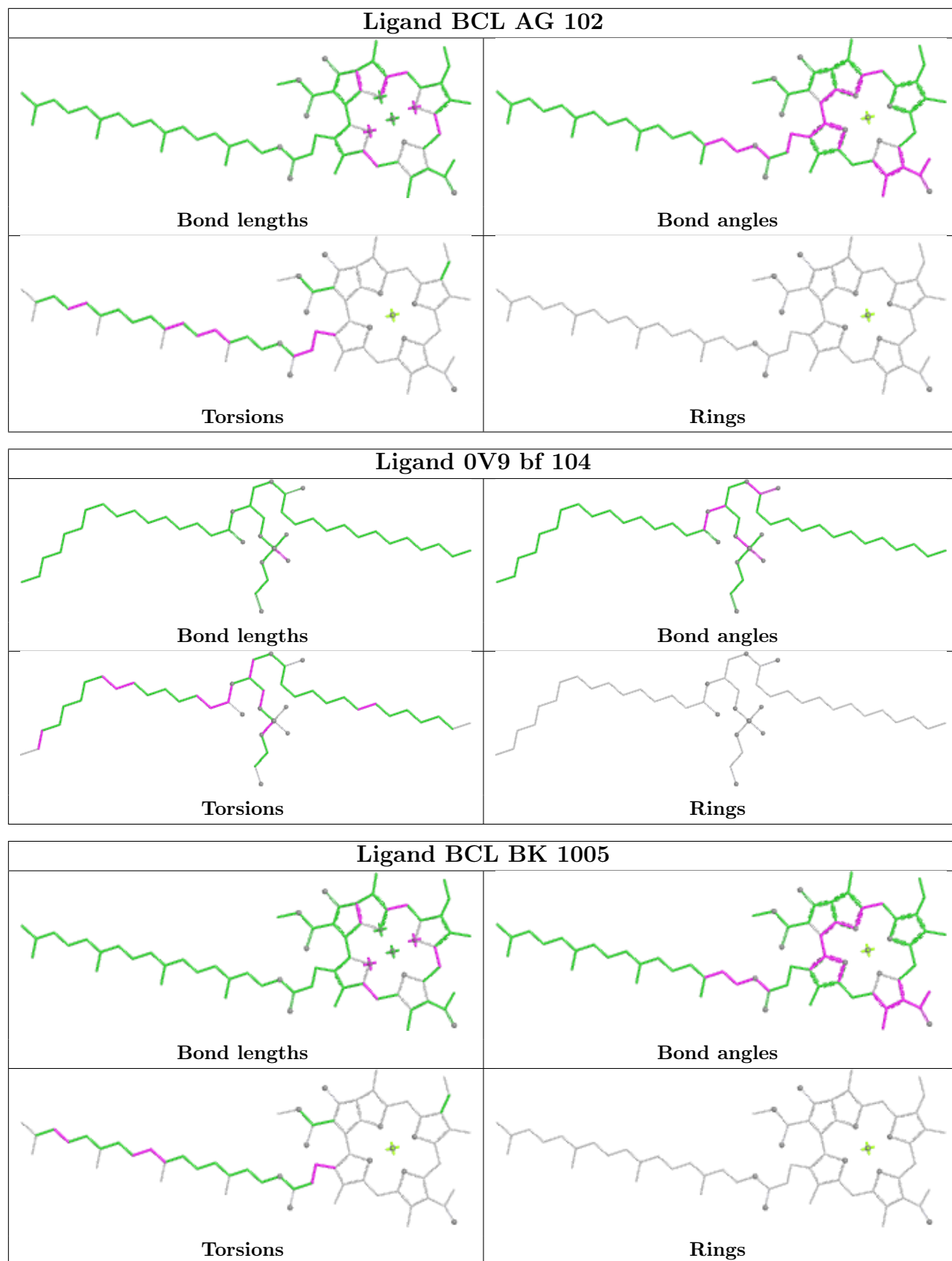


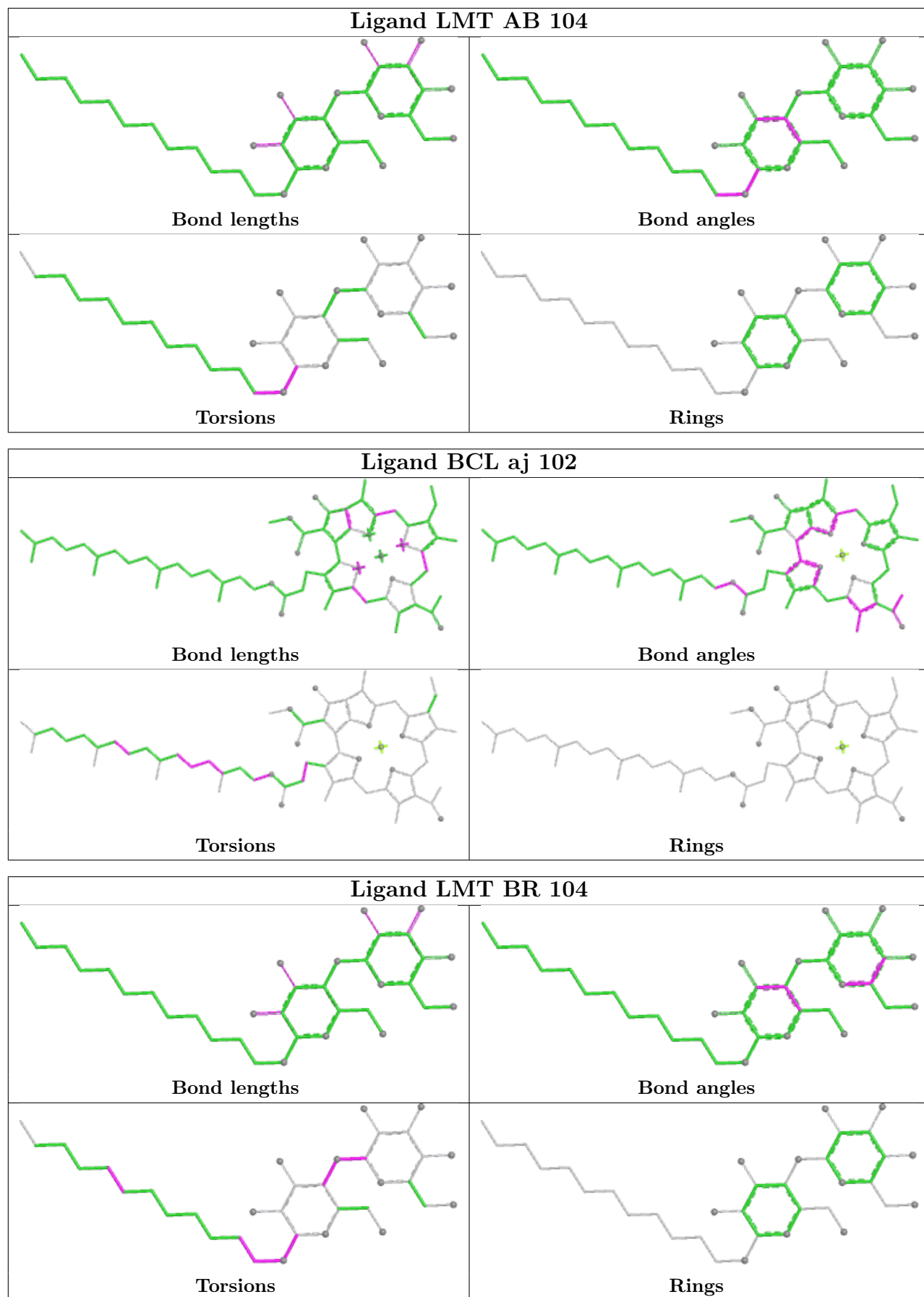


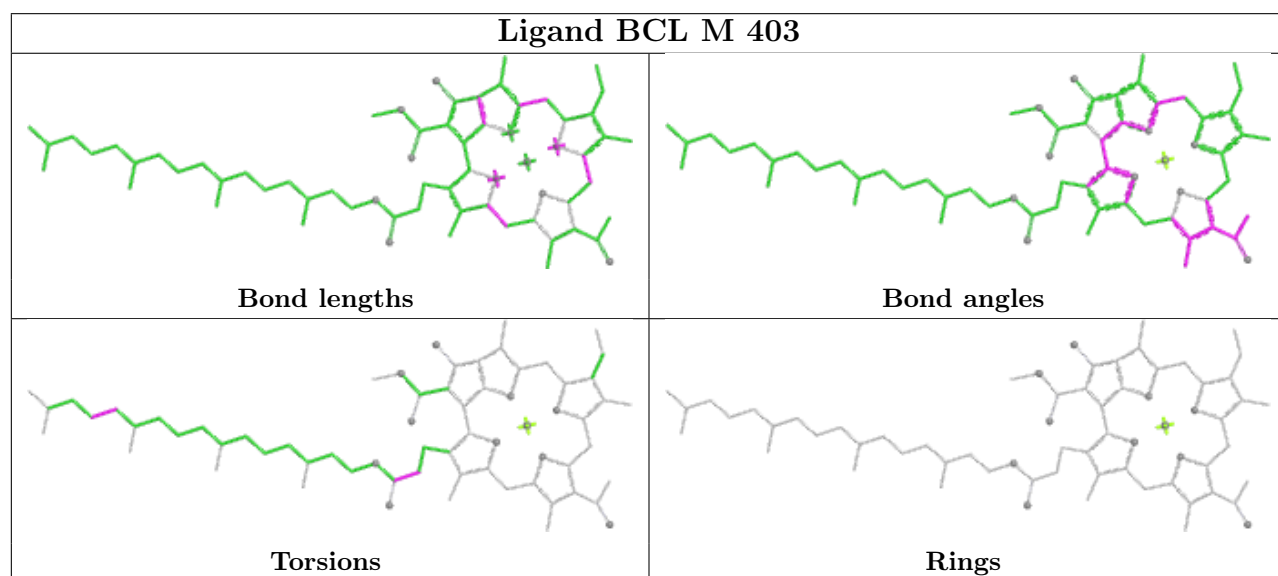
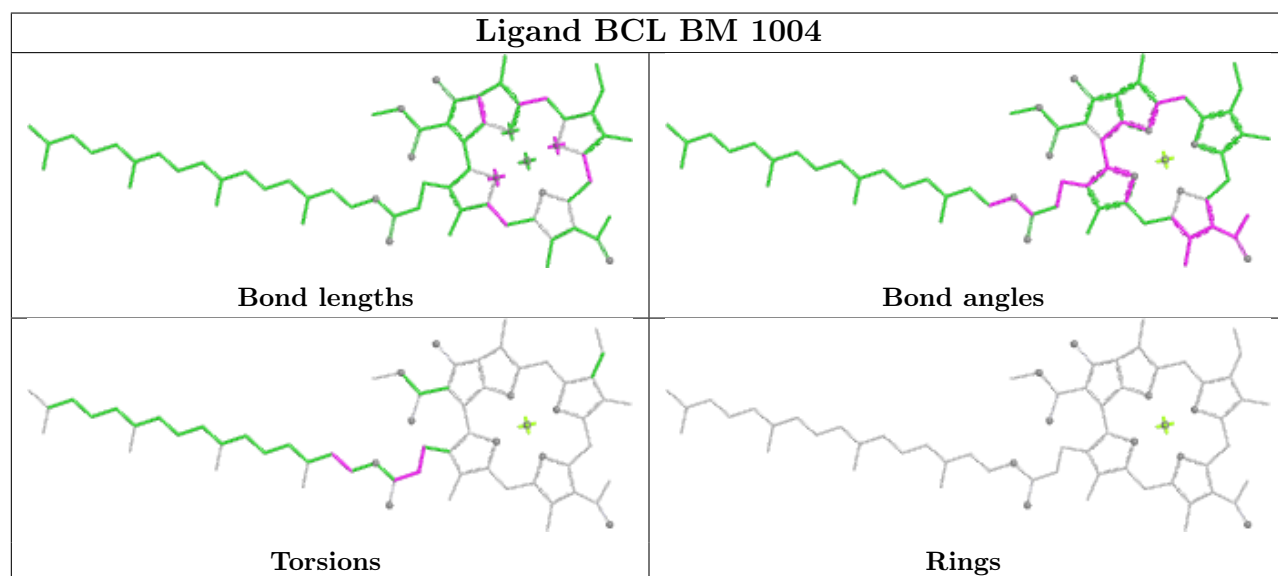
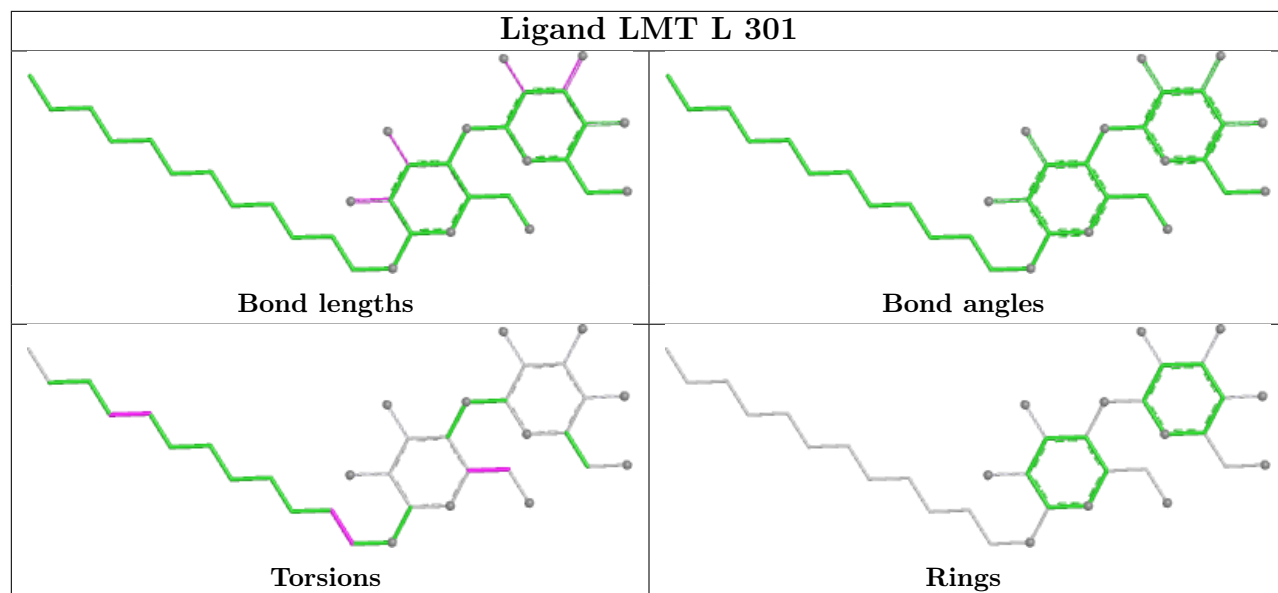




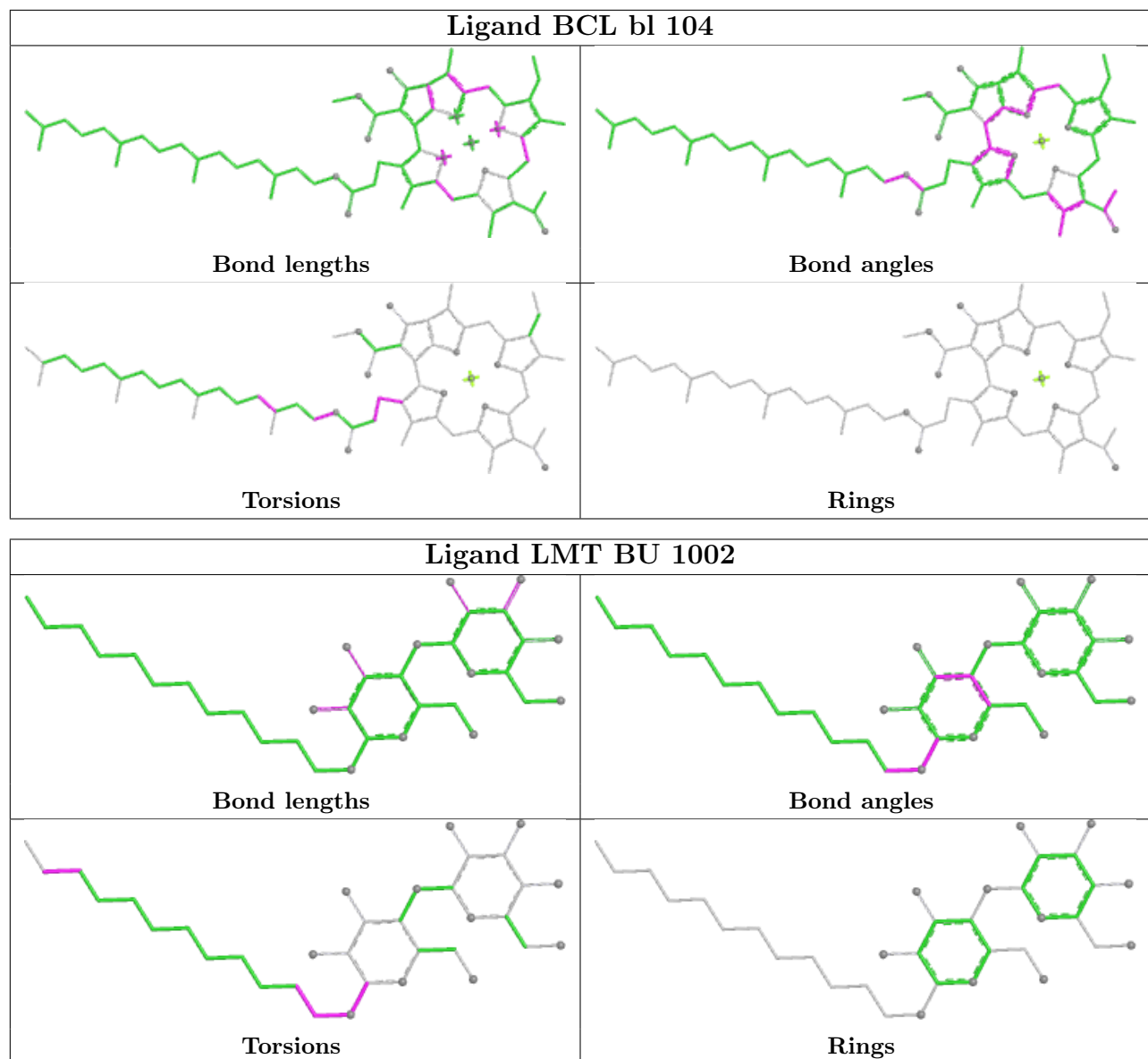


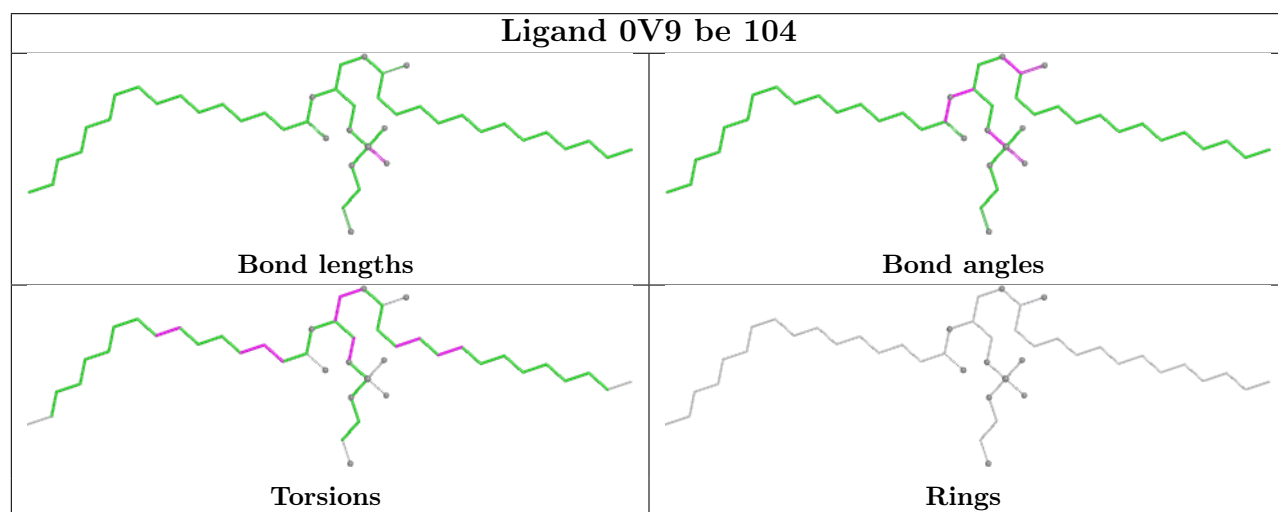
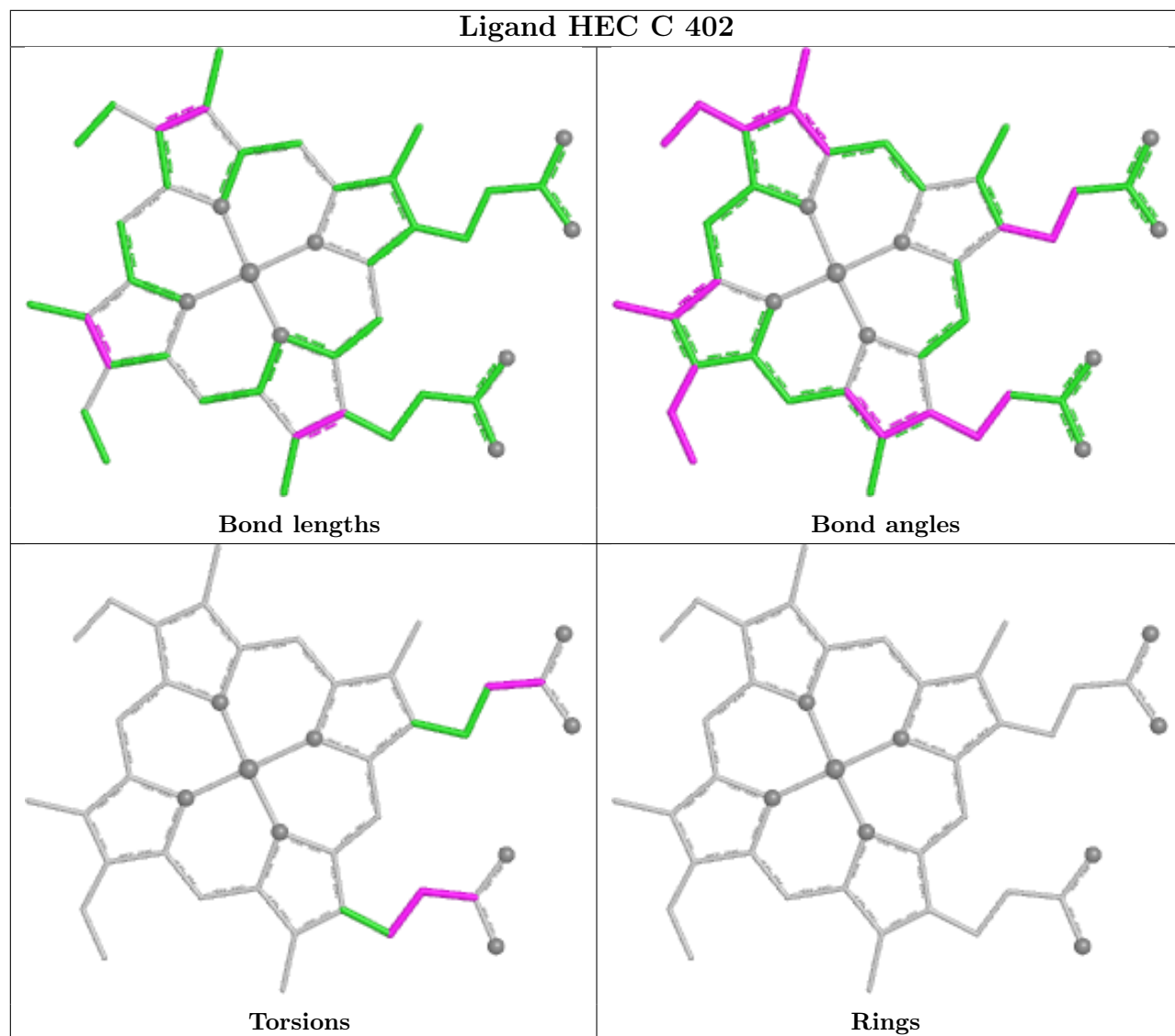


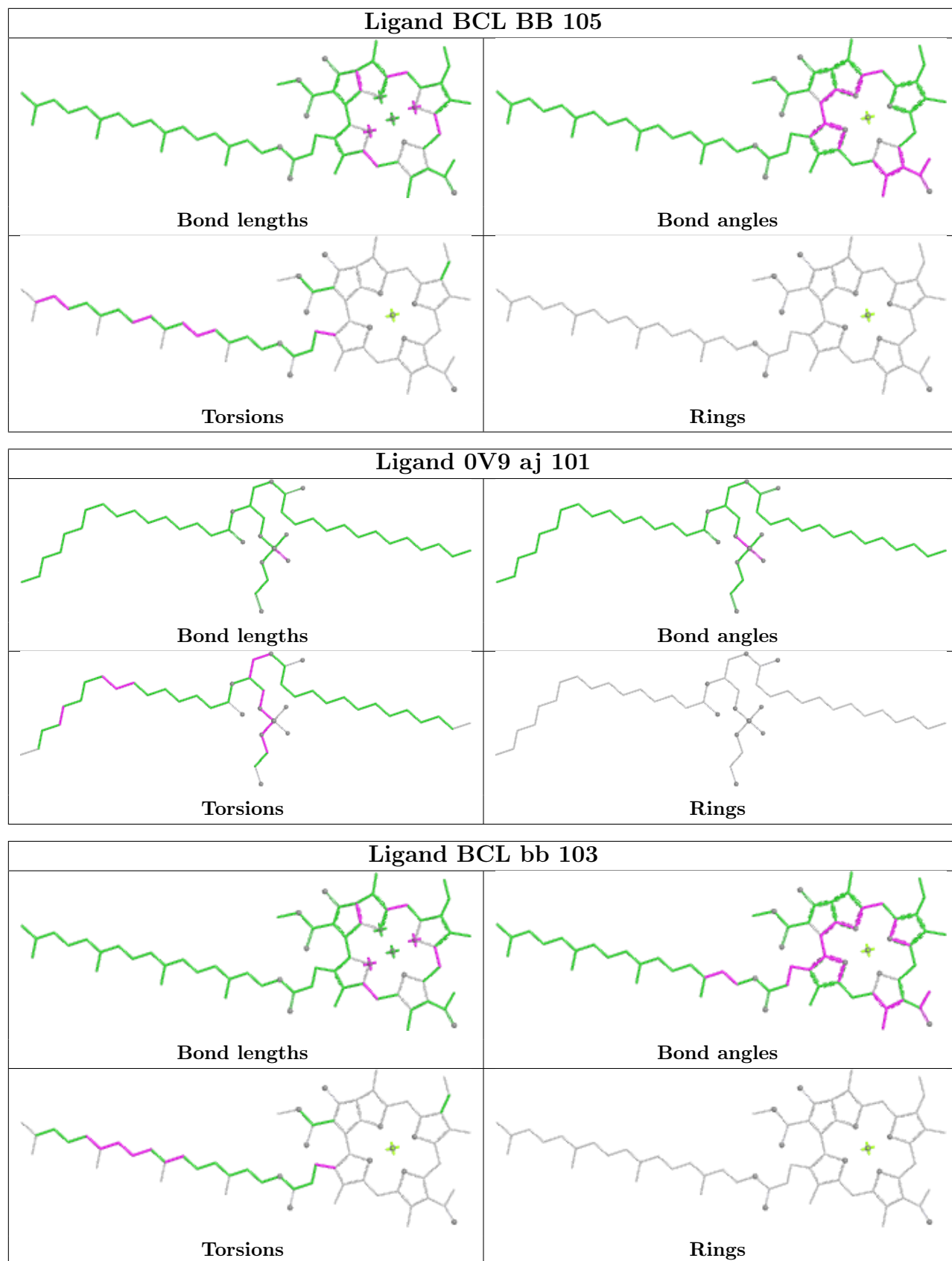


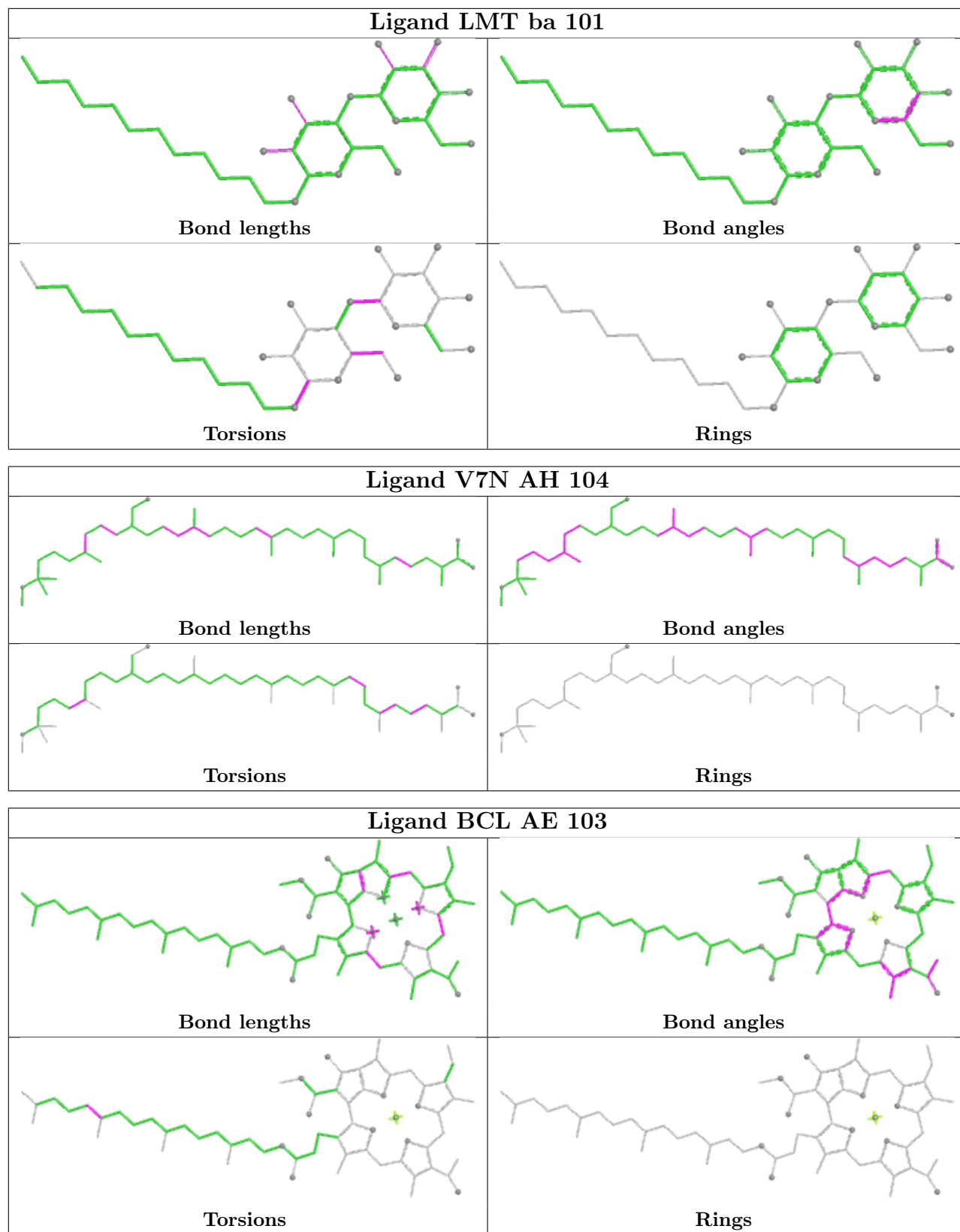


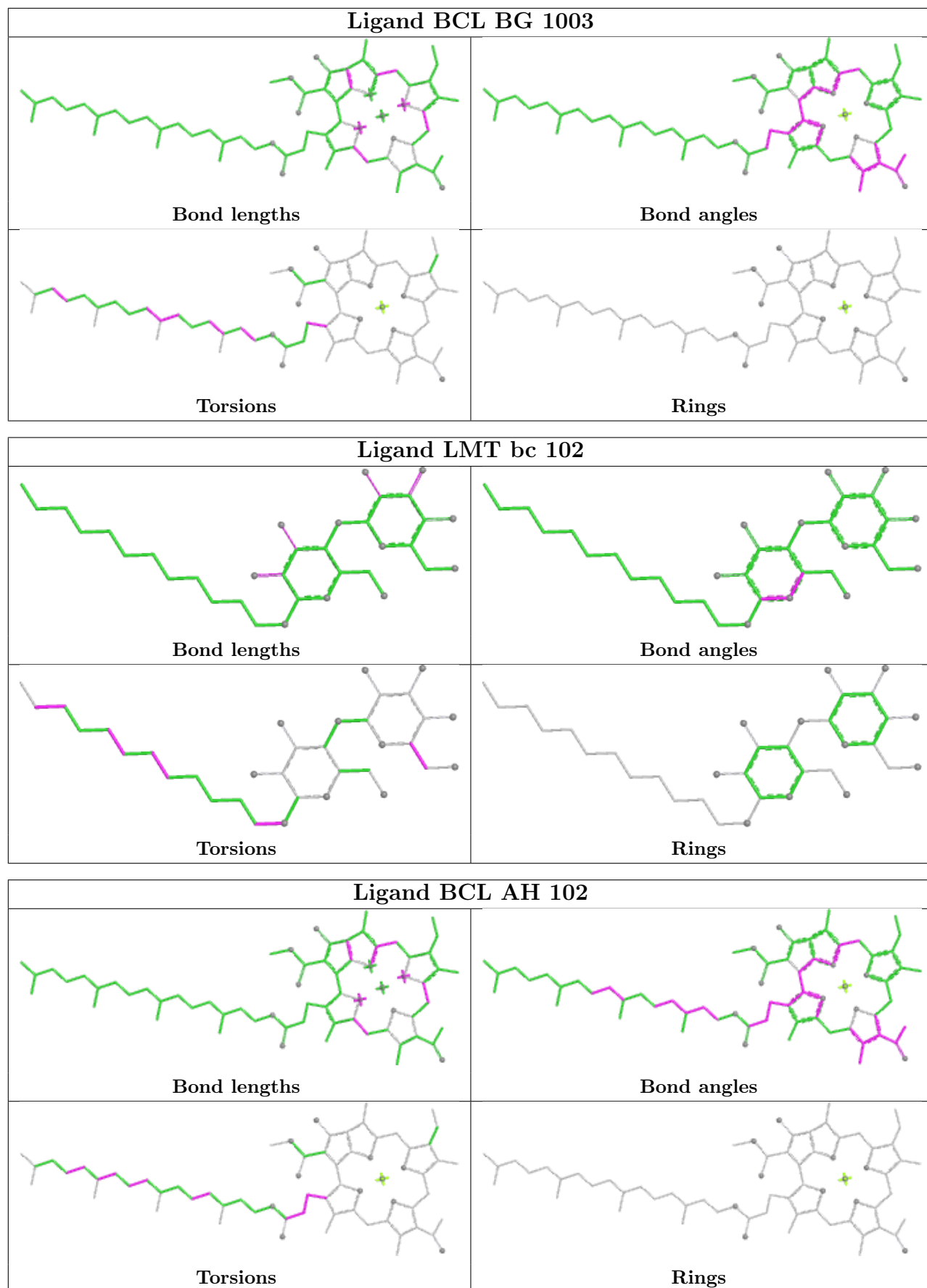


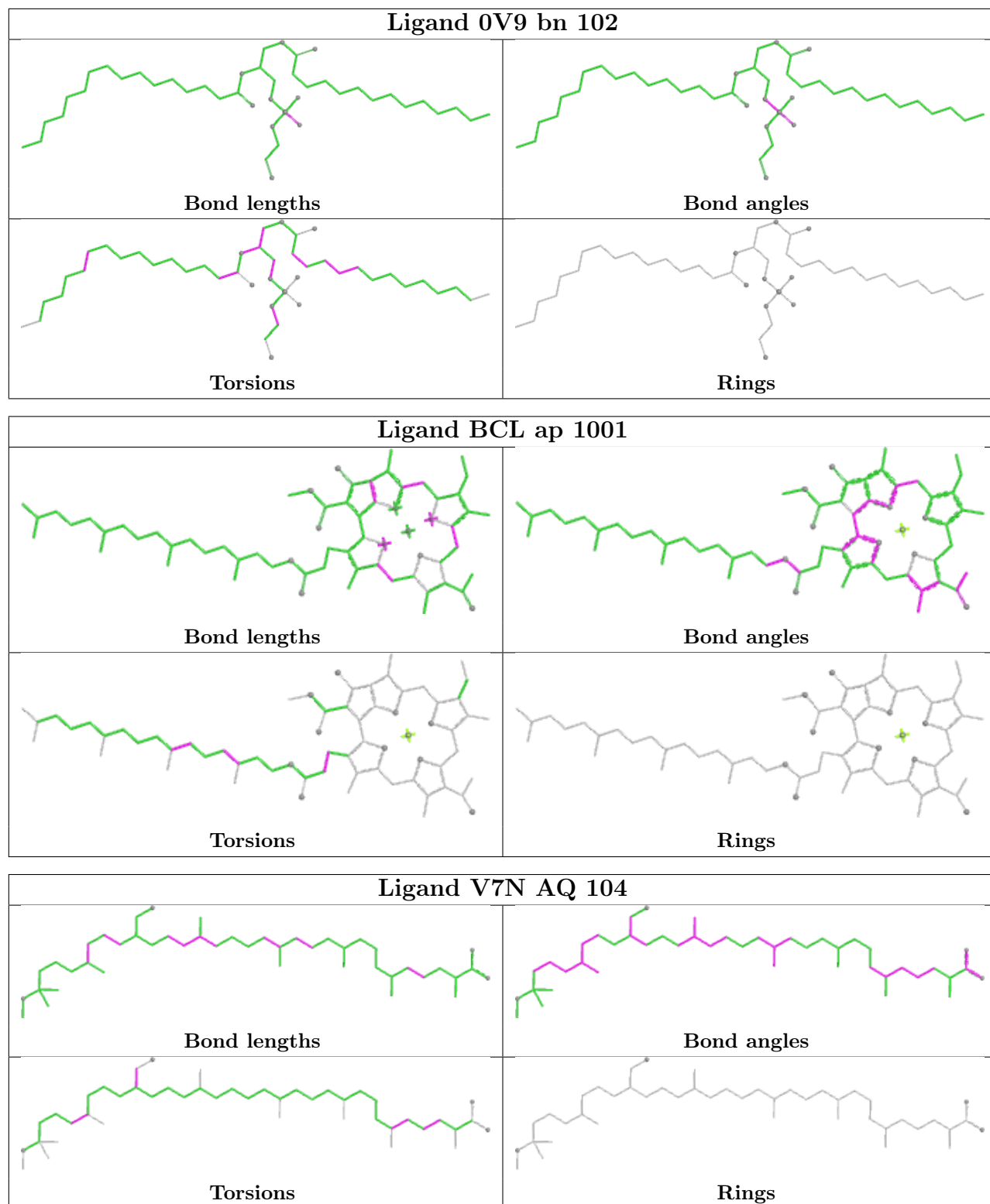


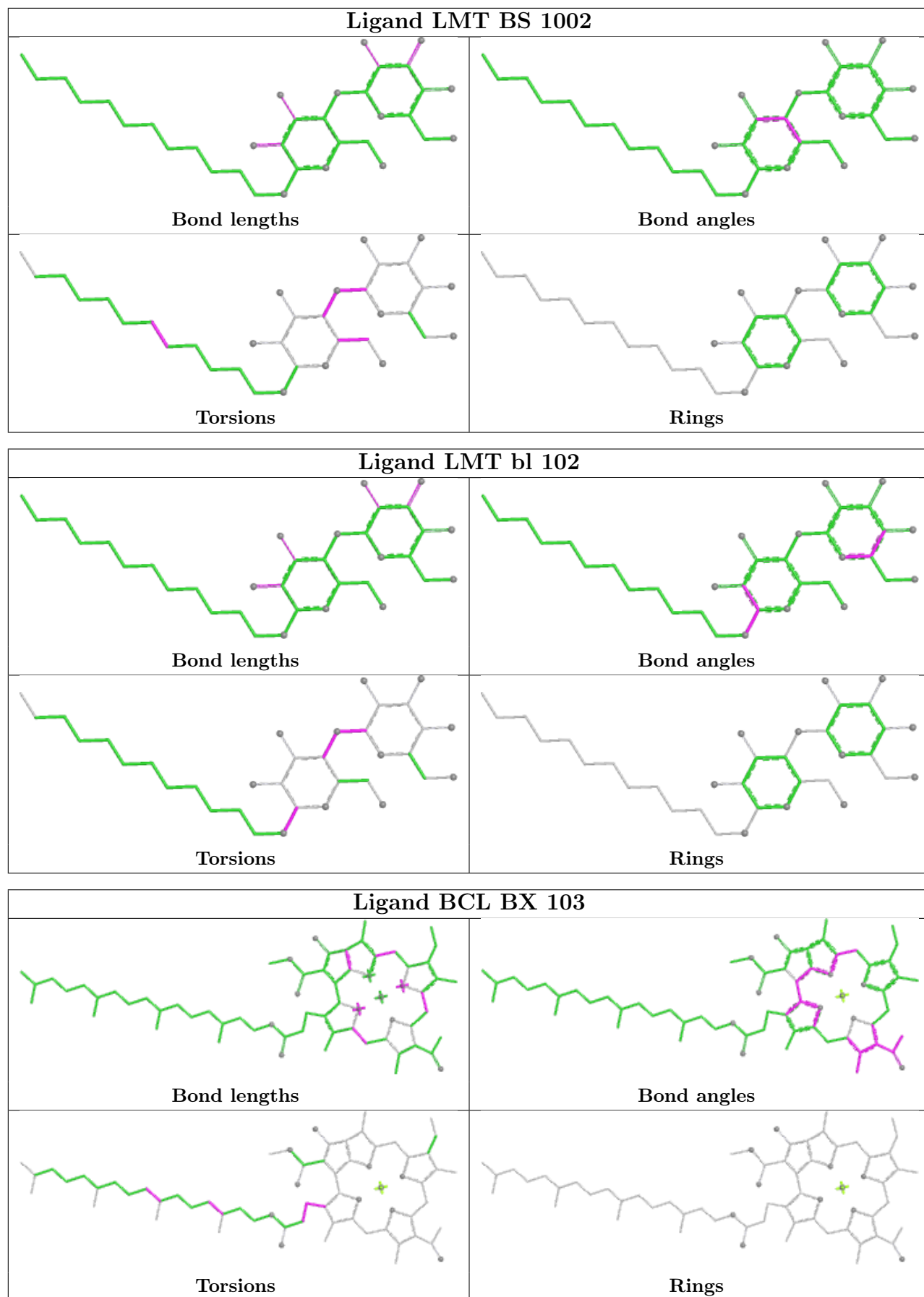


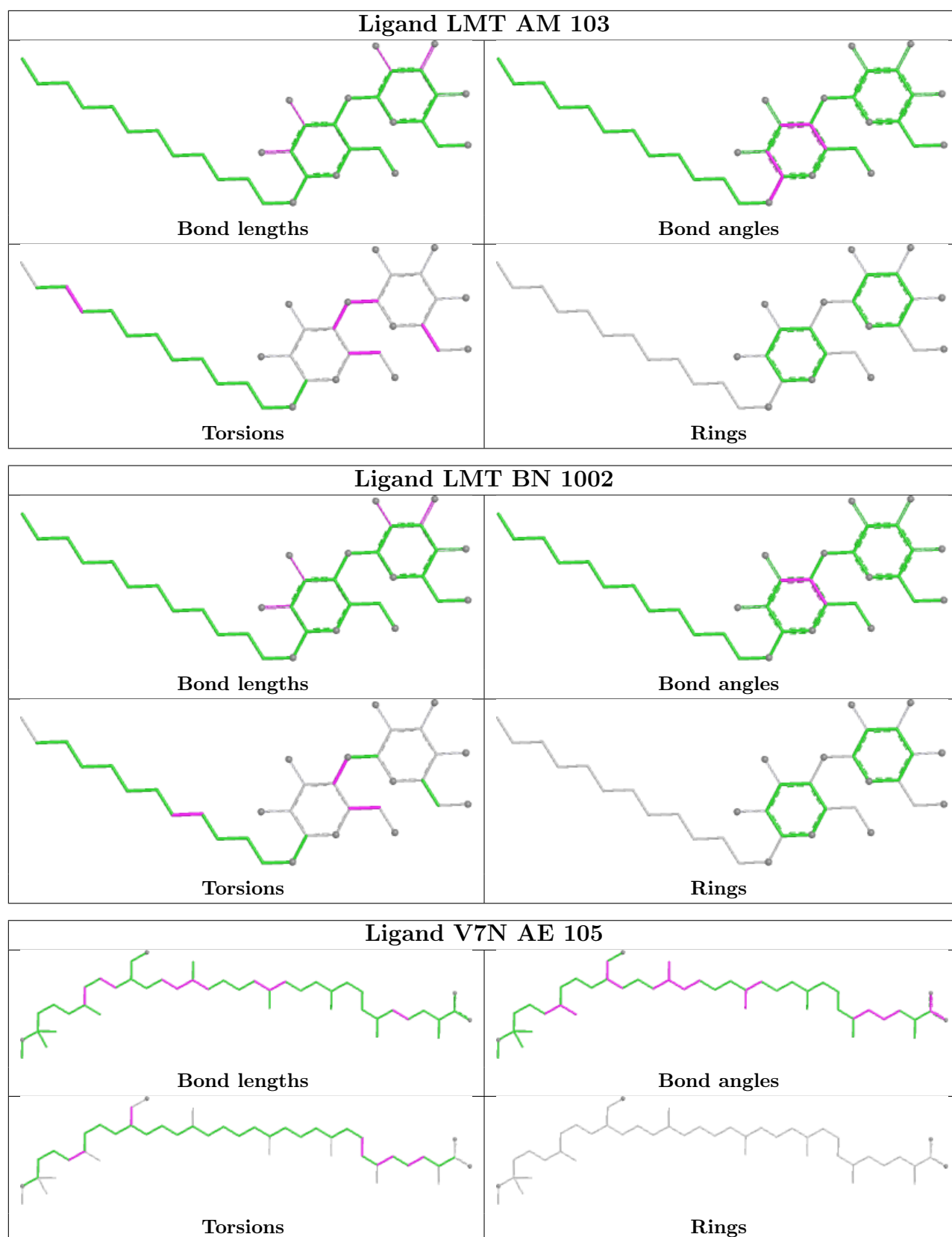




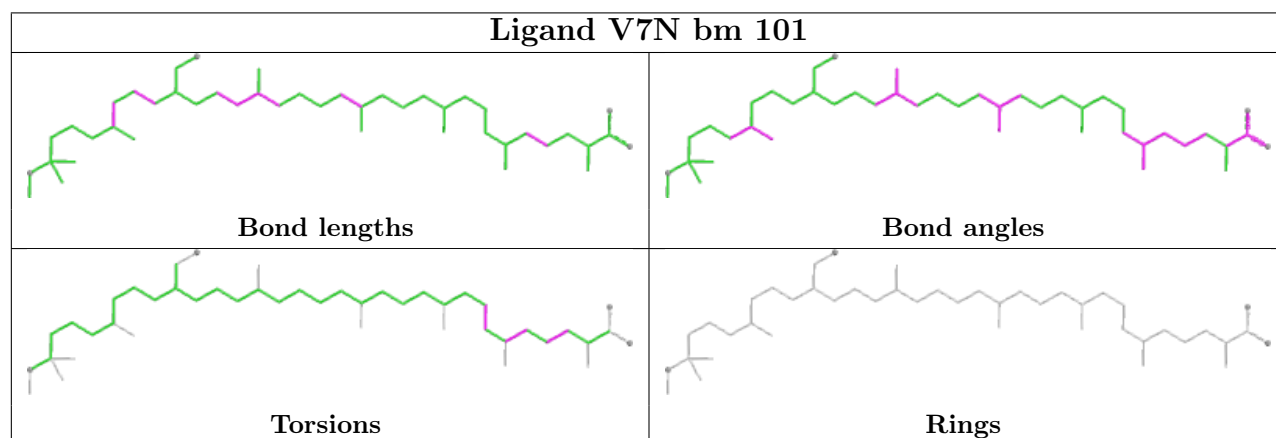
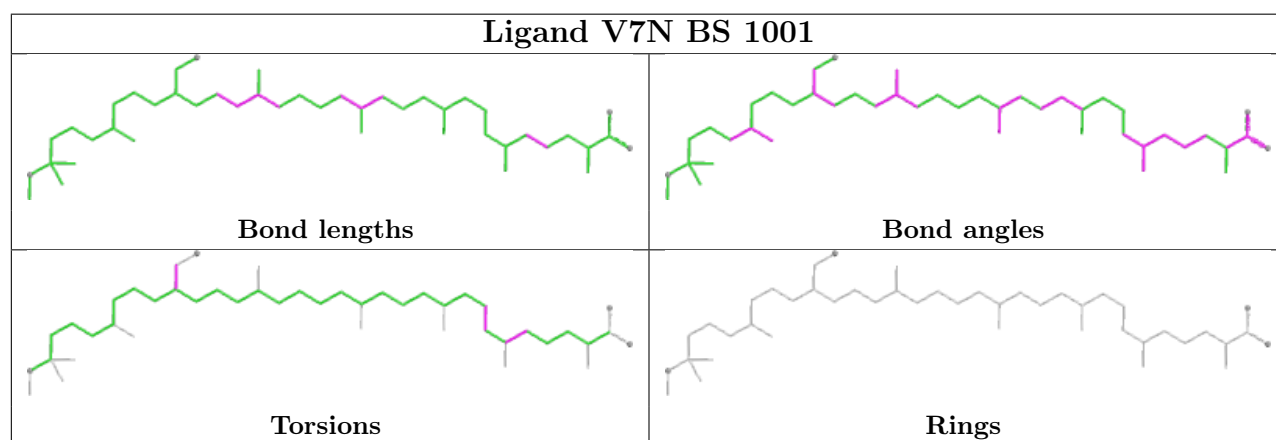
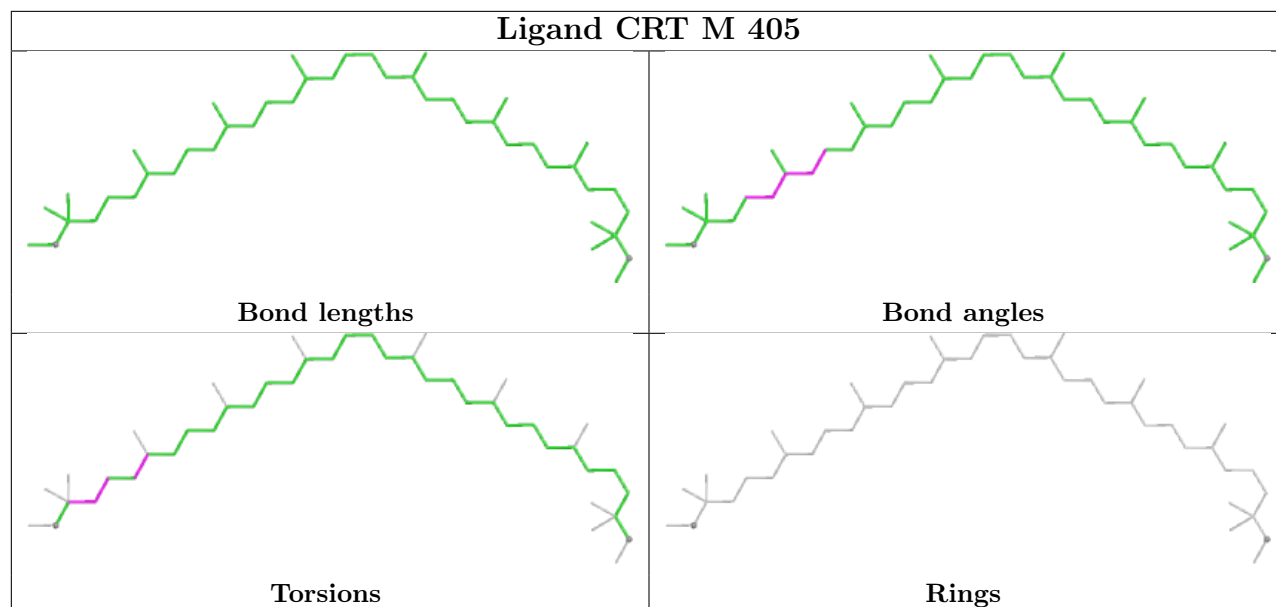


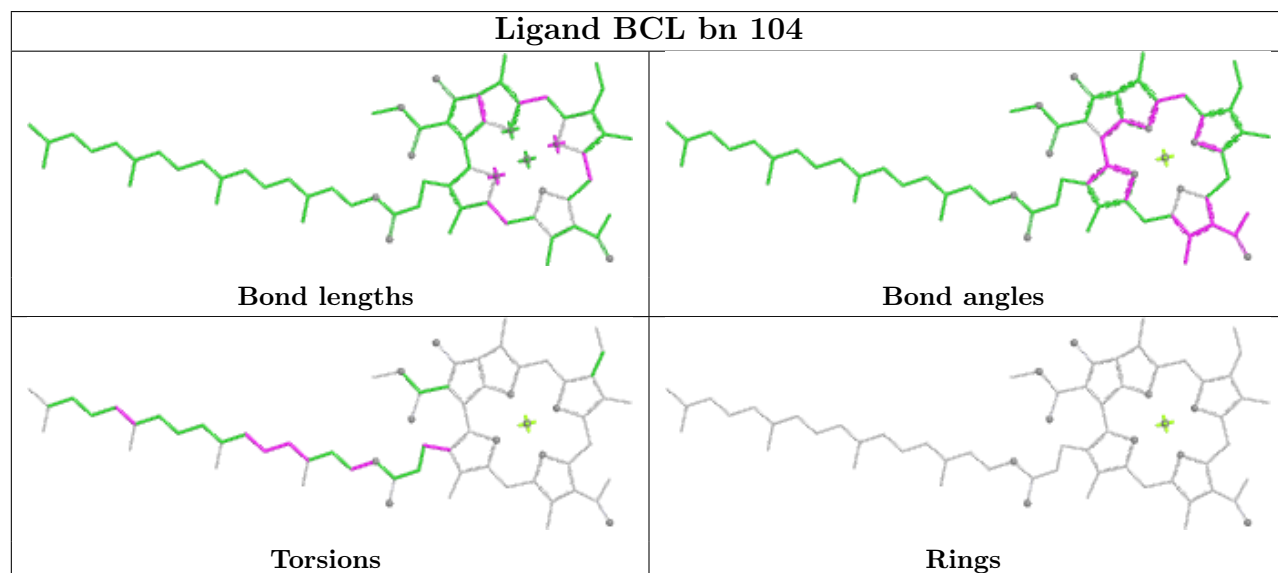
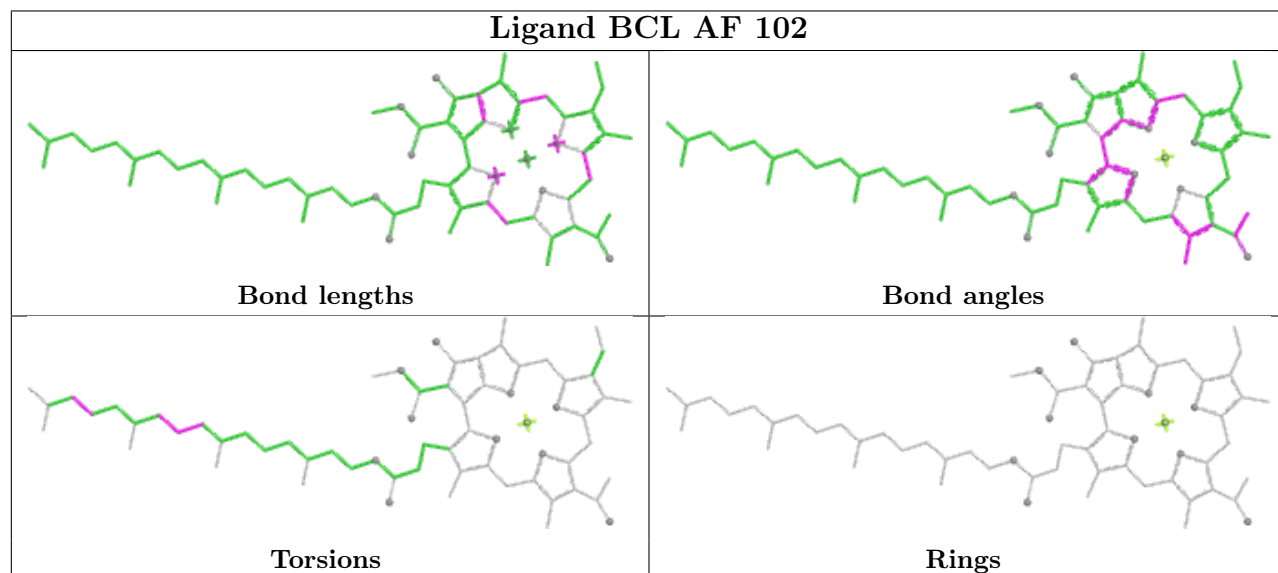
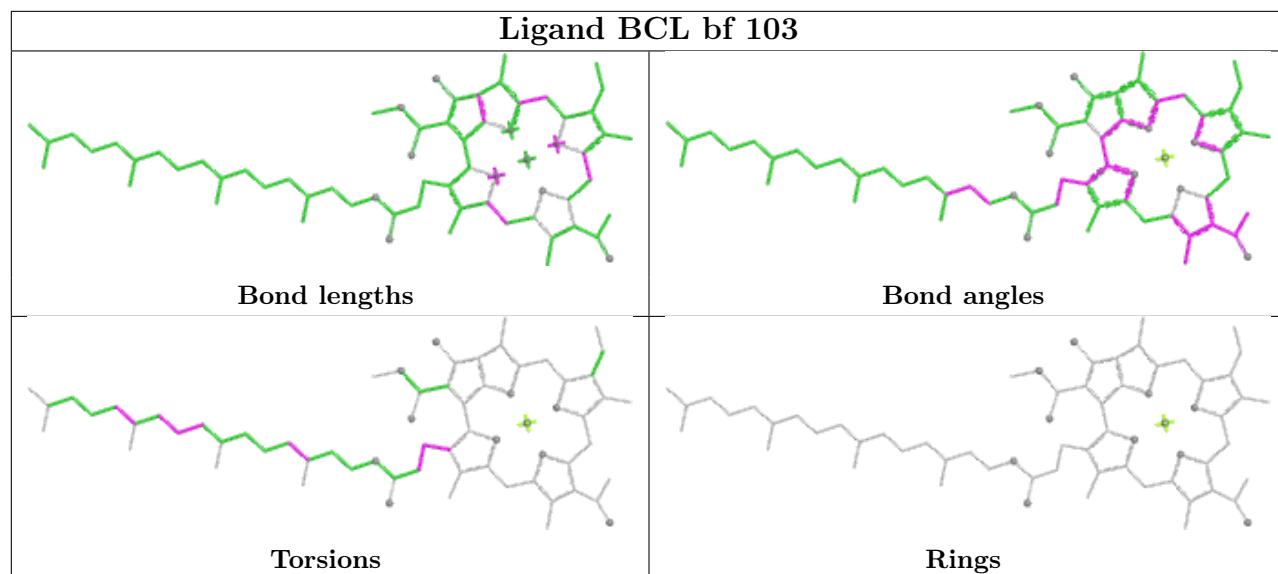


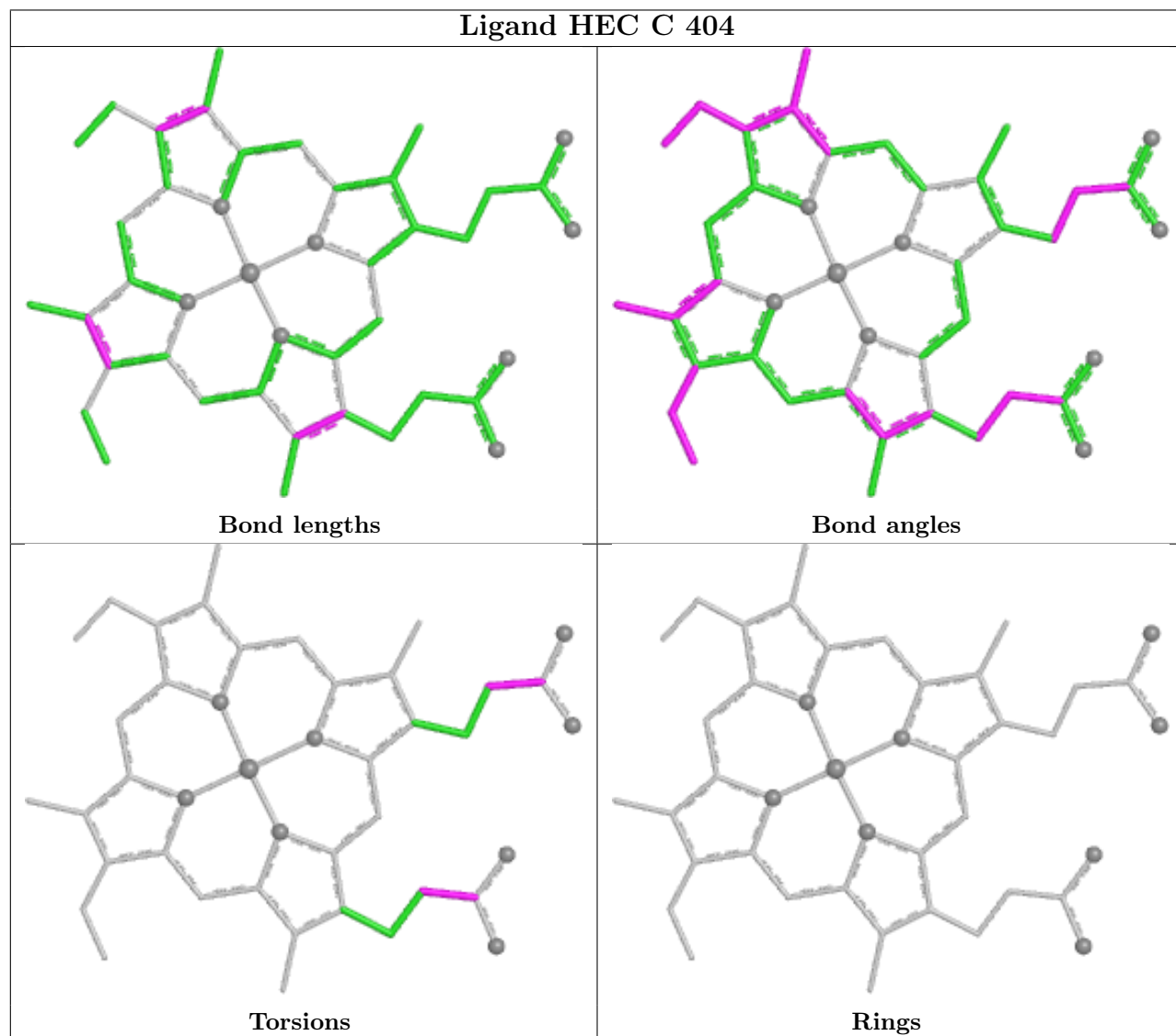
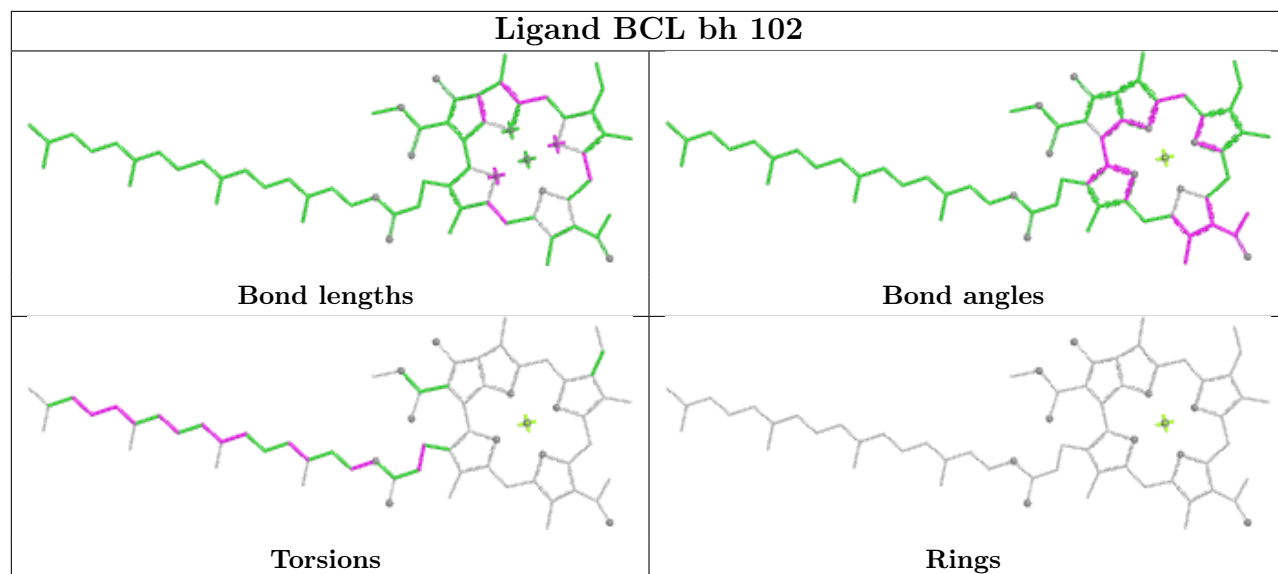


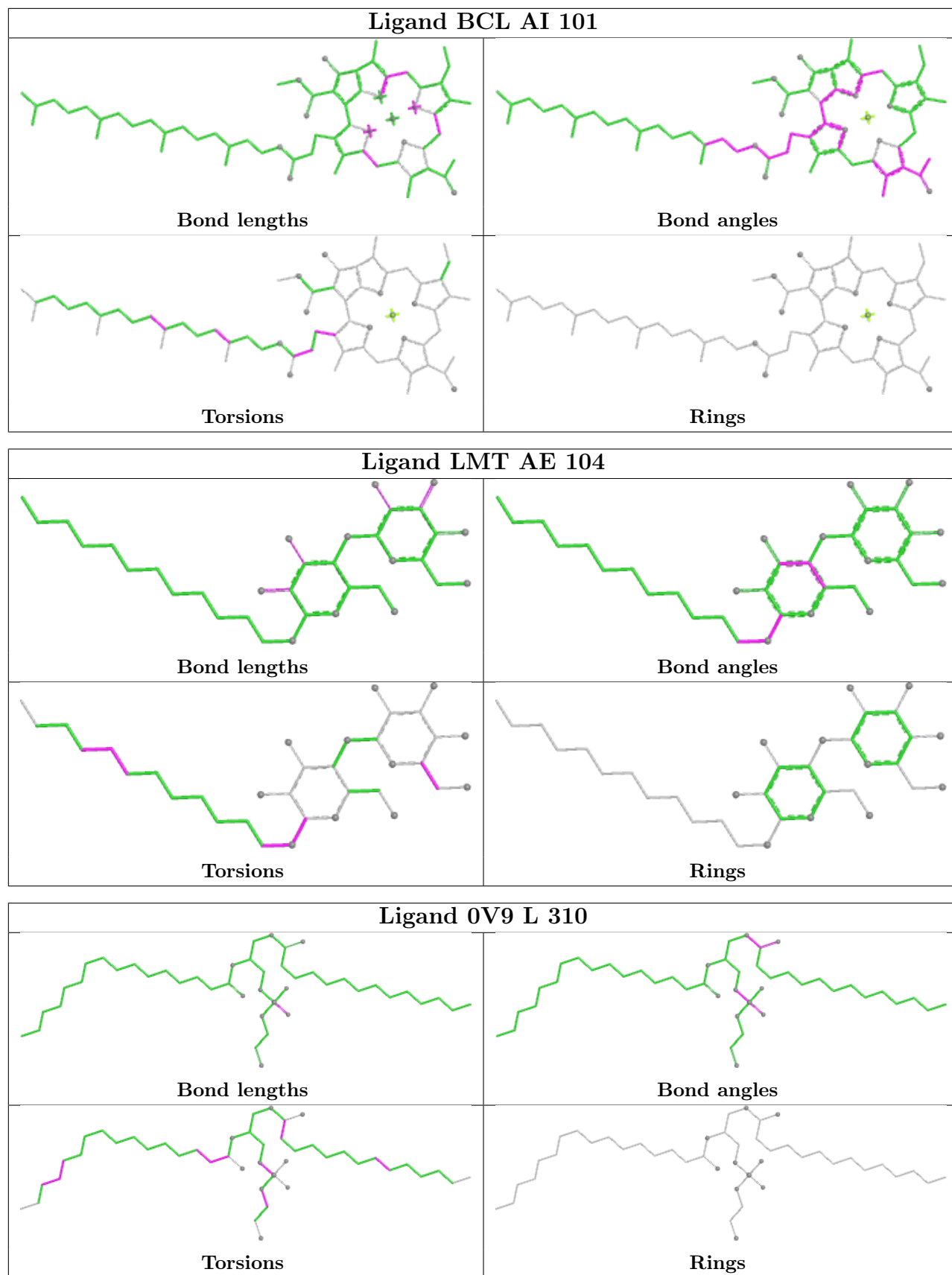


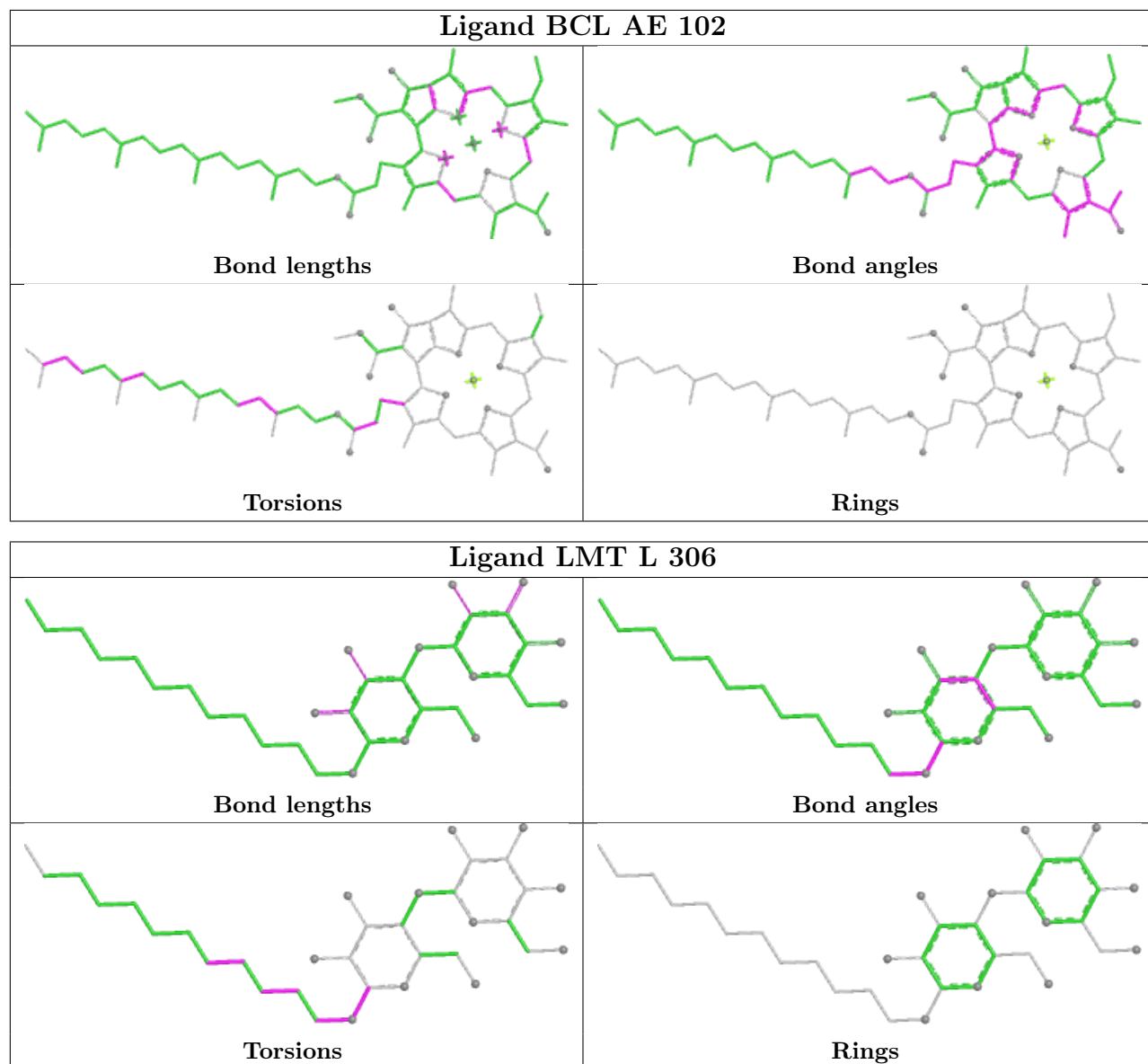


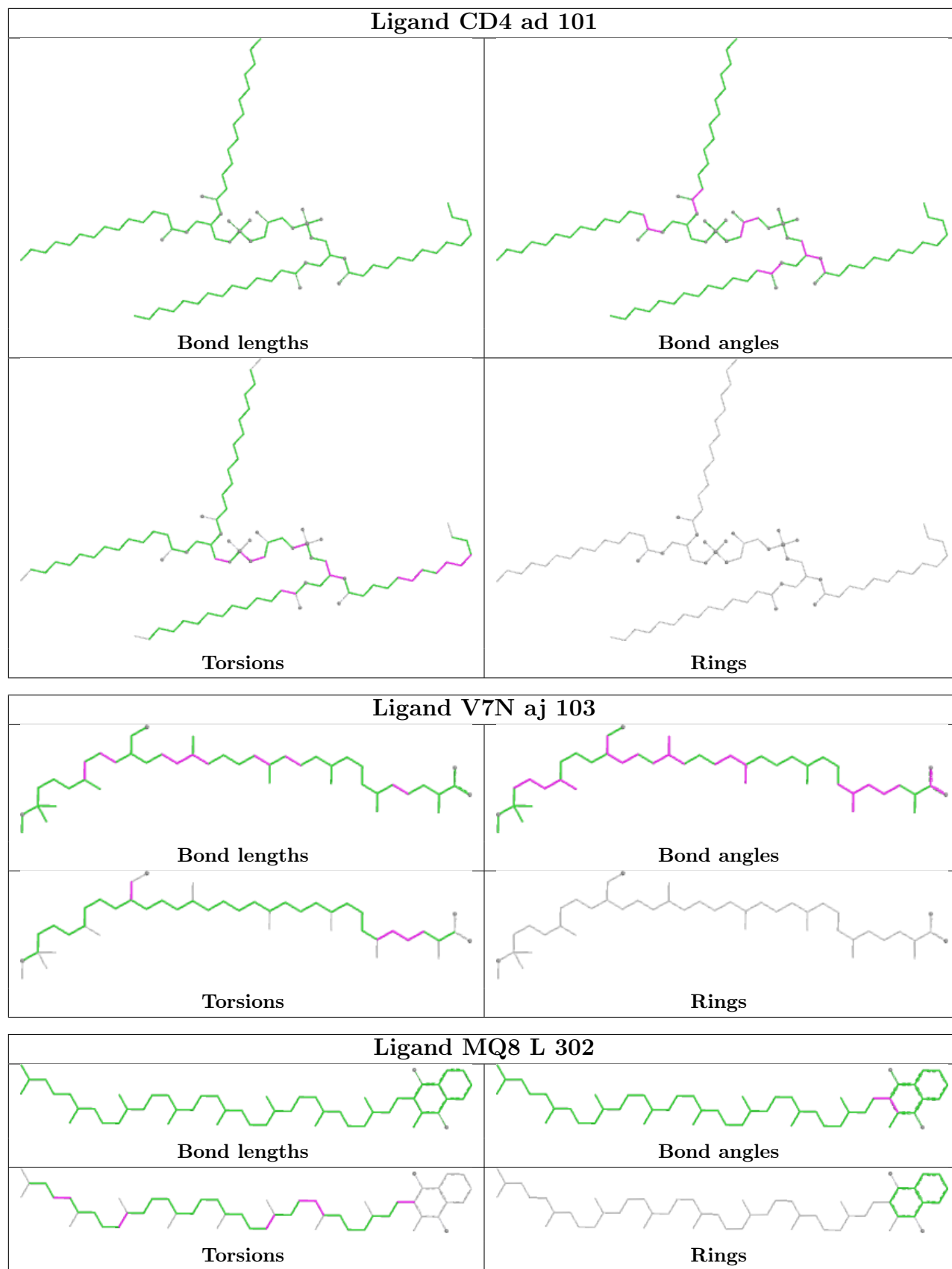


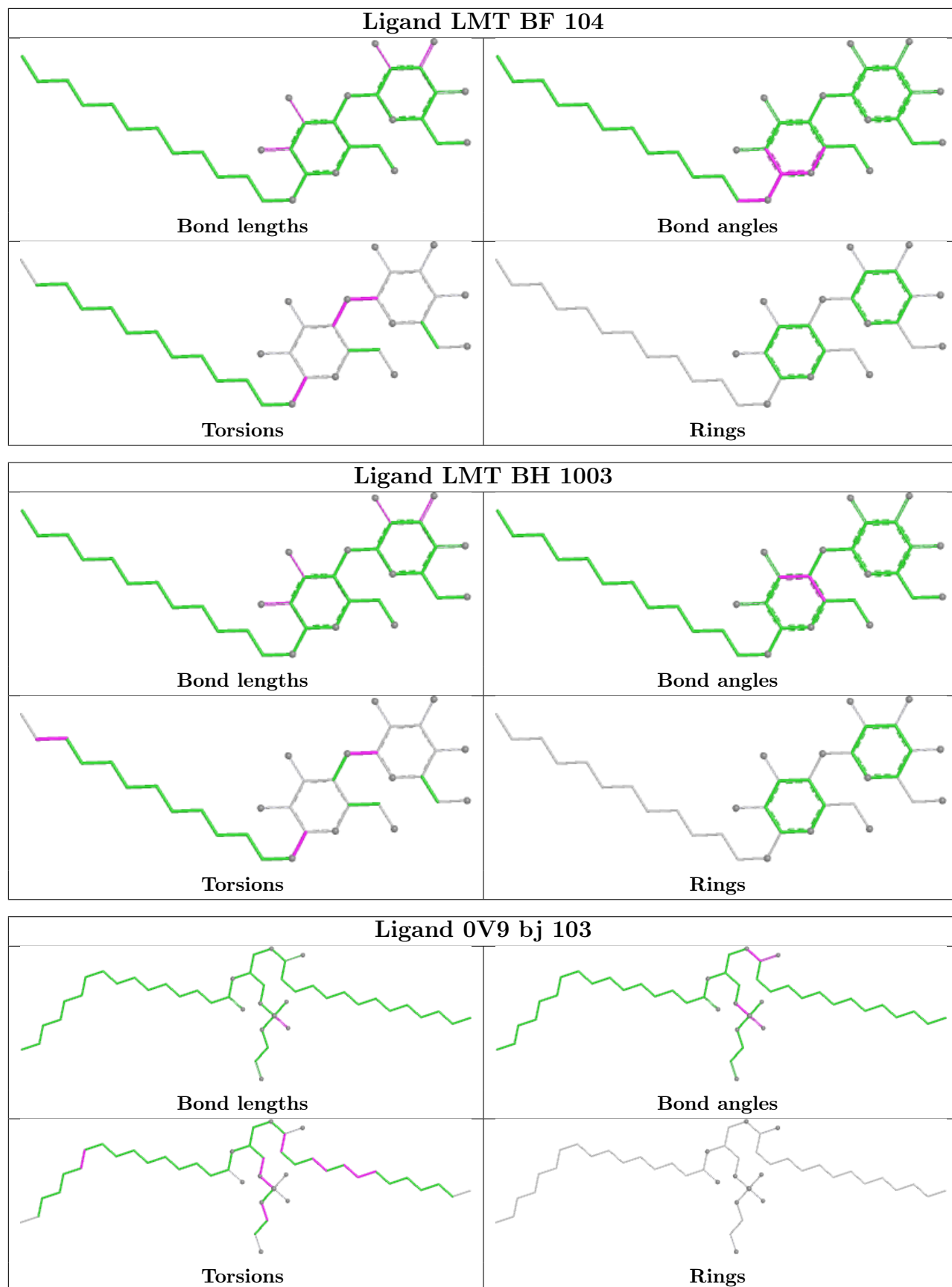


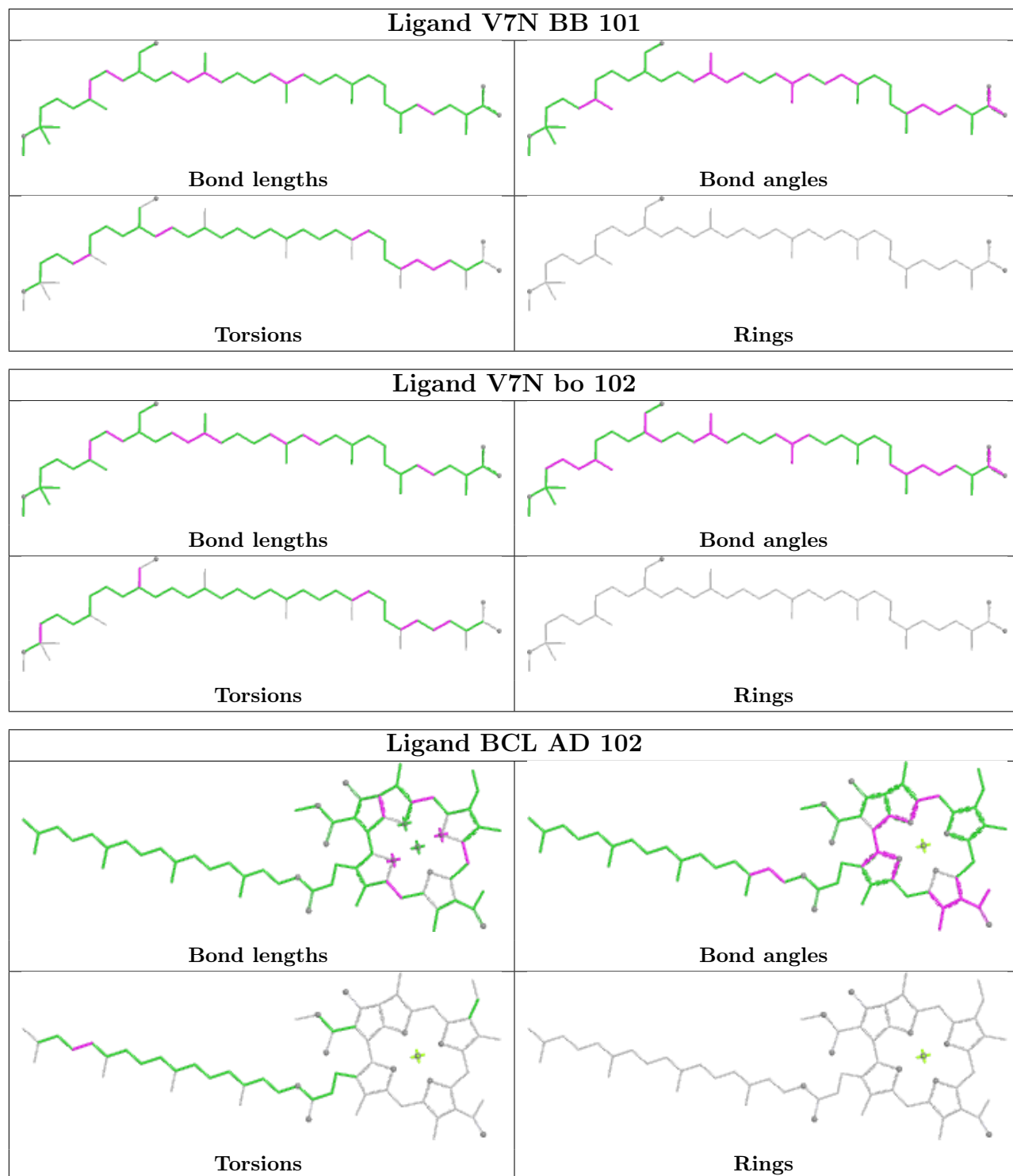




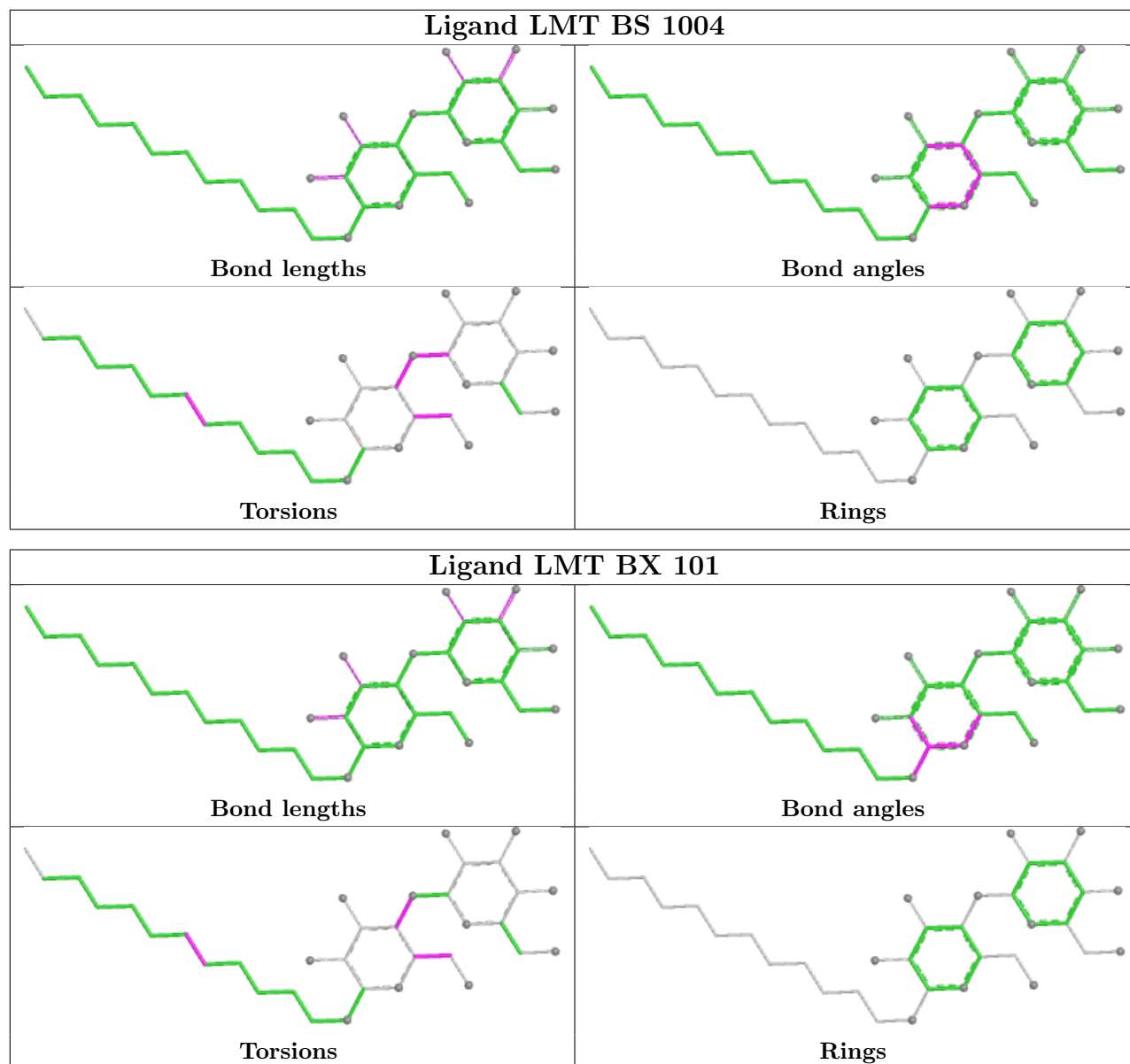












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

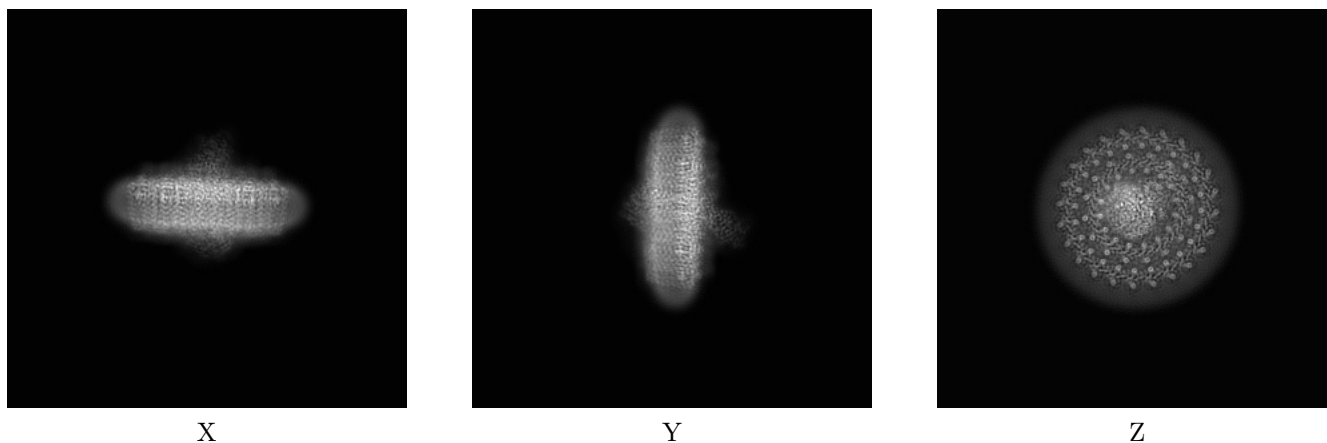
## 6 Map visualisation [i](#)

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](#)

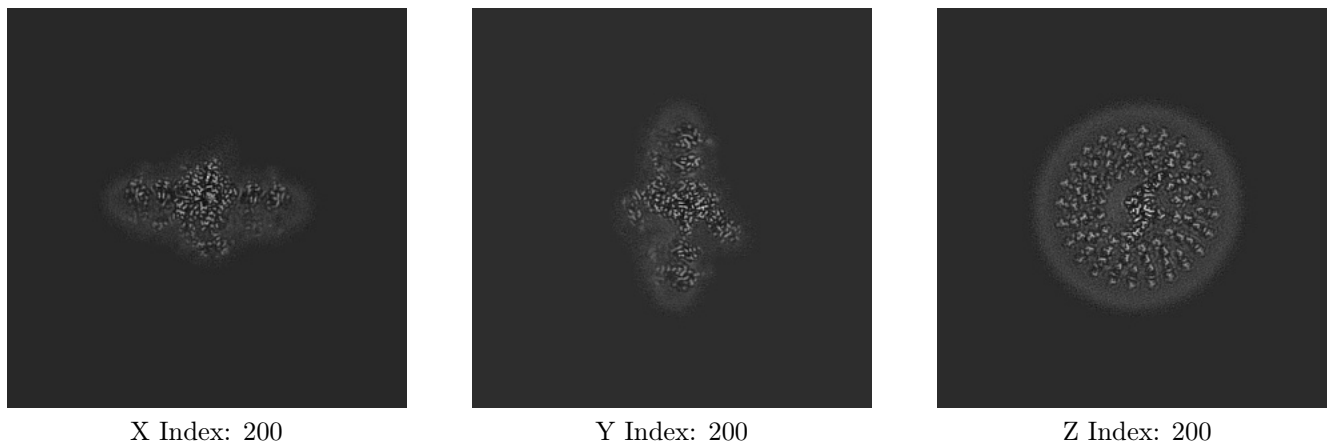
#### 6.1.1 Primary map



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

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

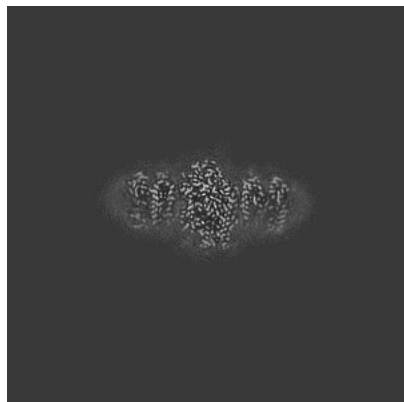
#### 6.2.1 Primary map



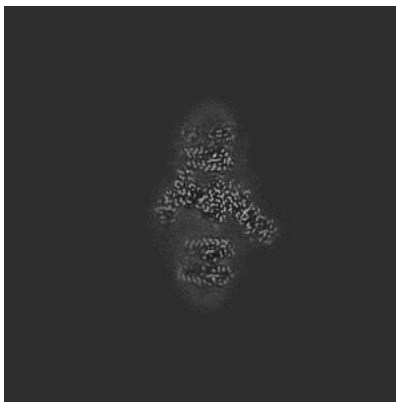
The images above show central slices of the map in three orthogonal directions.

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

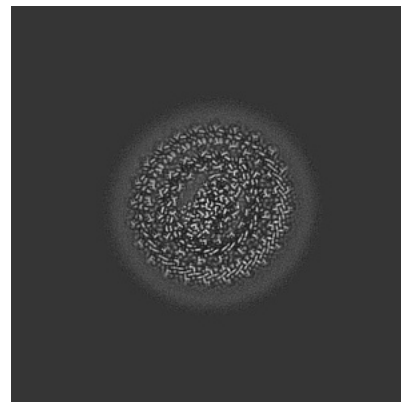
### 6.3.1 Primary map



X Index: 209



Y Index: 207

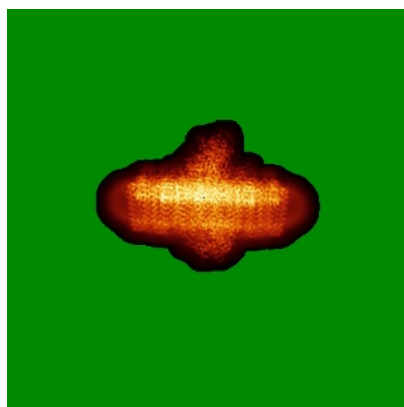


Z Index: 214

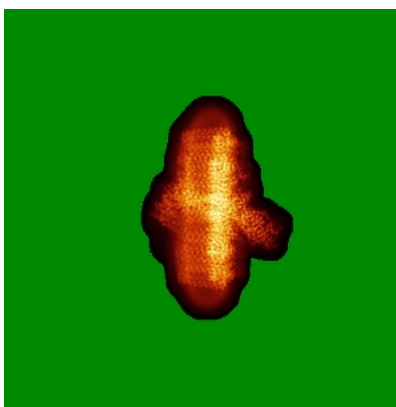
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

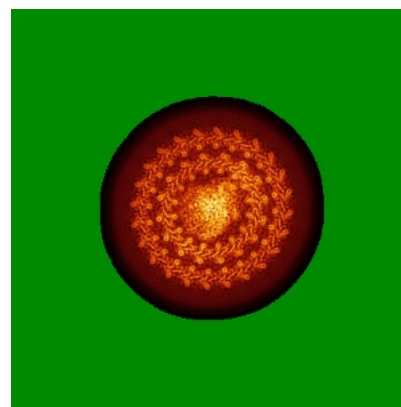
### 6.4.1 Primary map



X



Y

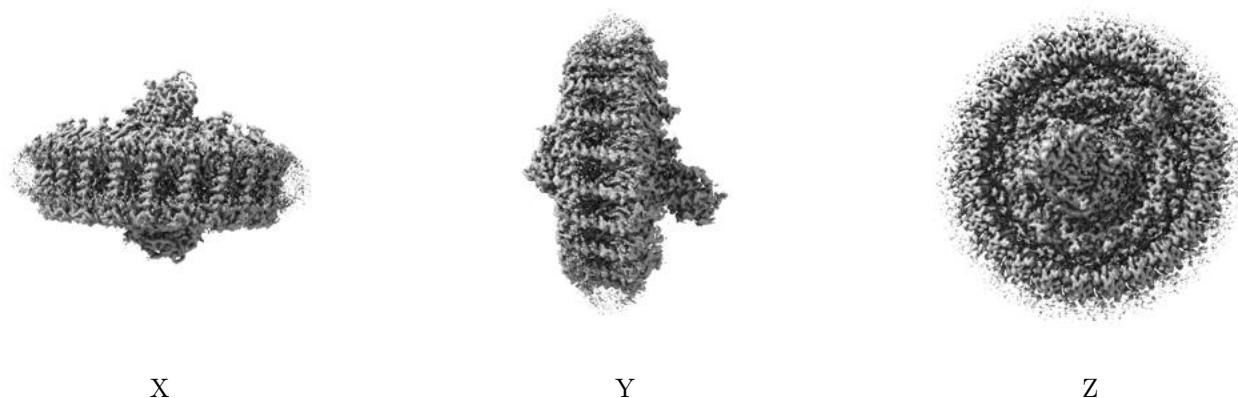


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

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

### 6.5.1 Primary map



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.

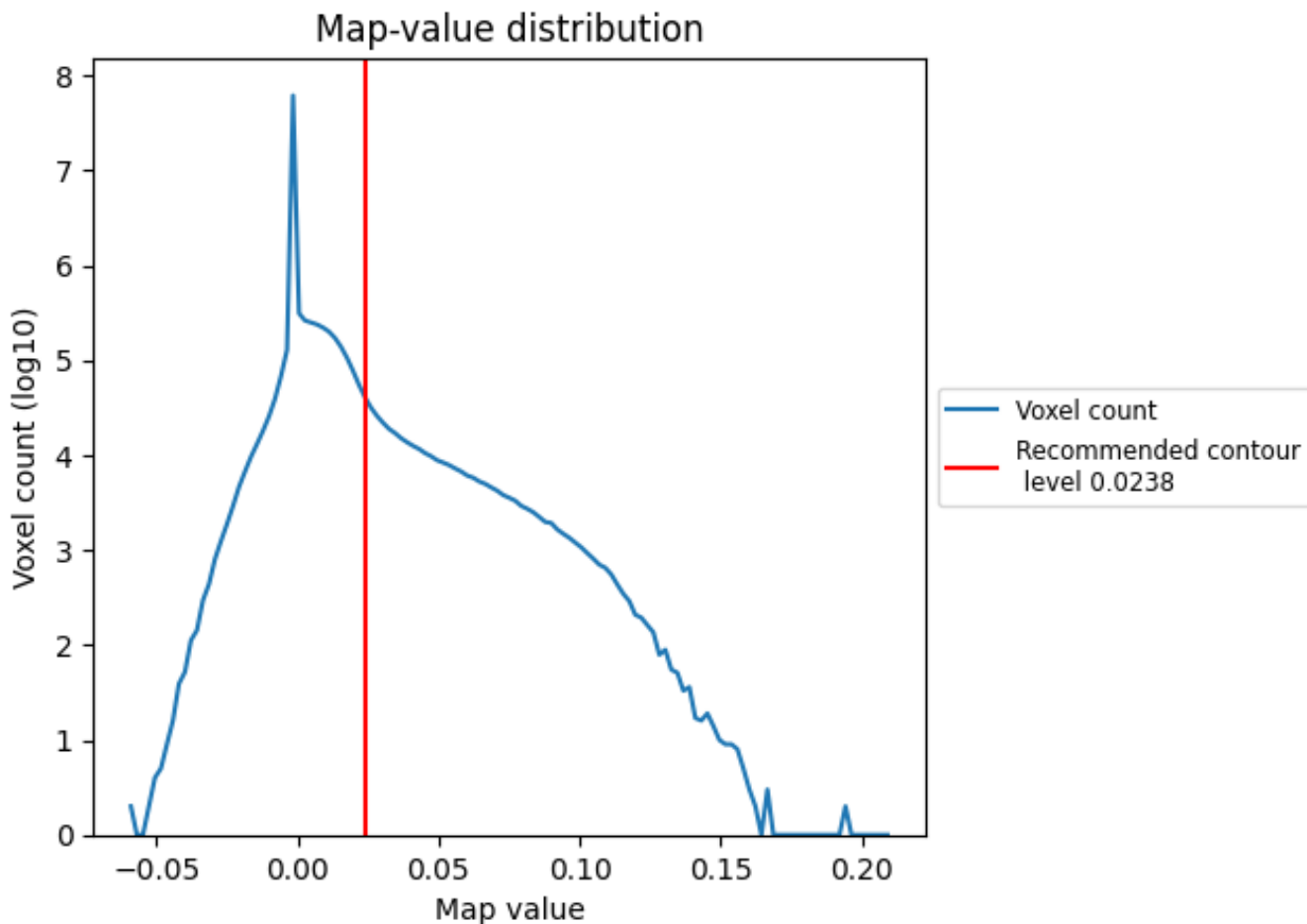
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

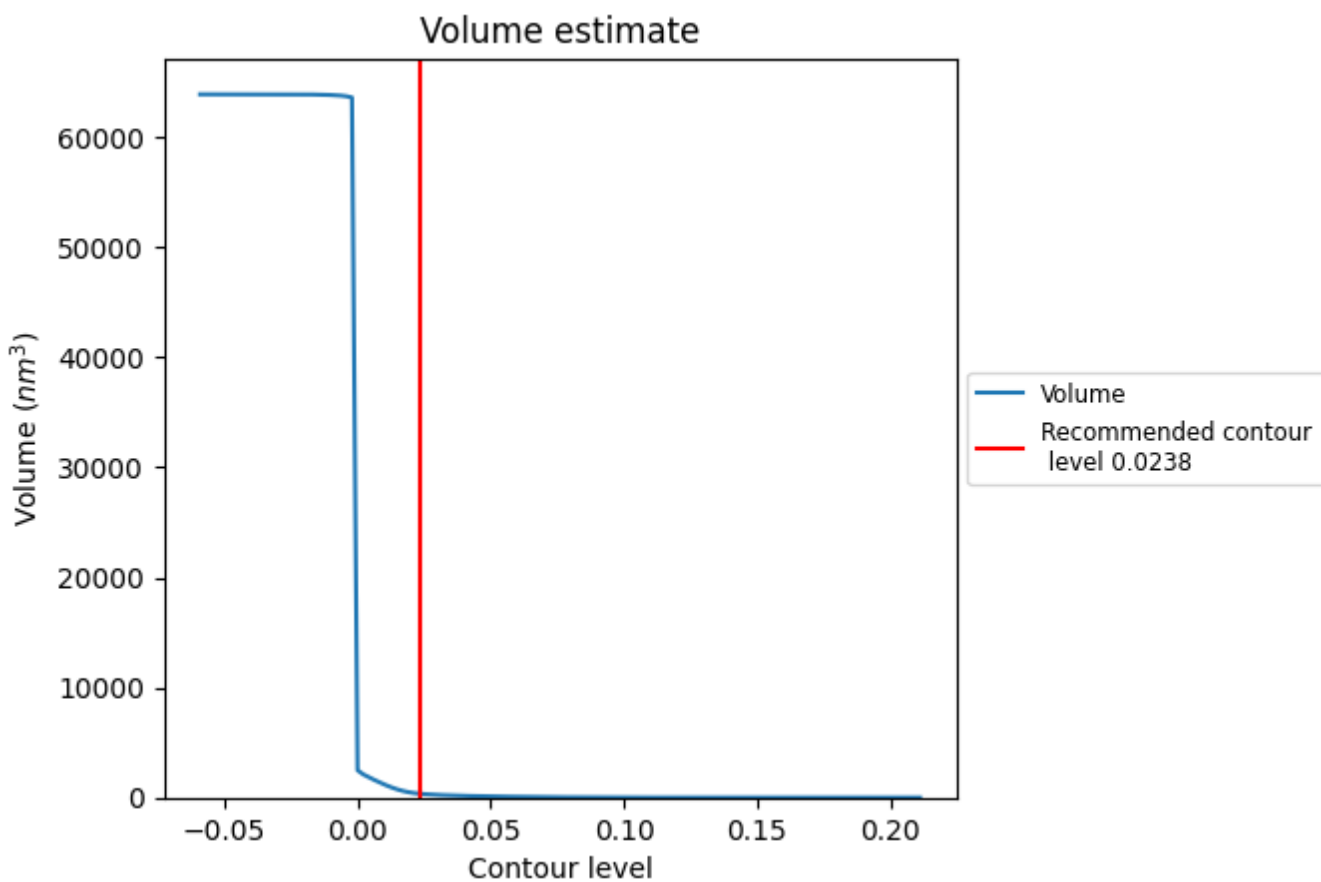
This section contains the results of statistical analysis of the map.

### 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.

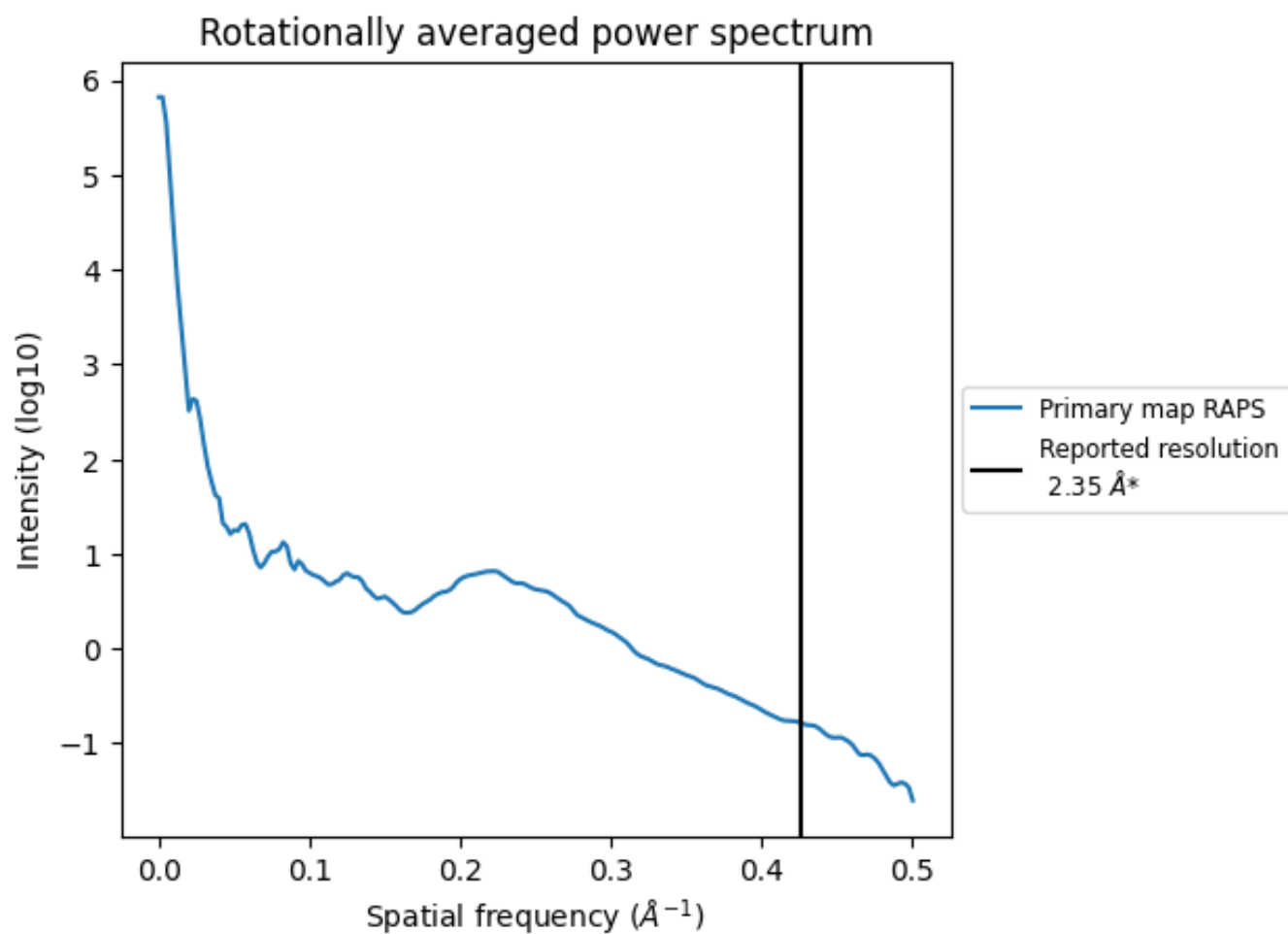
## 7.2 Volume estimate [i](#)



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

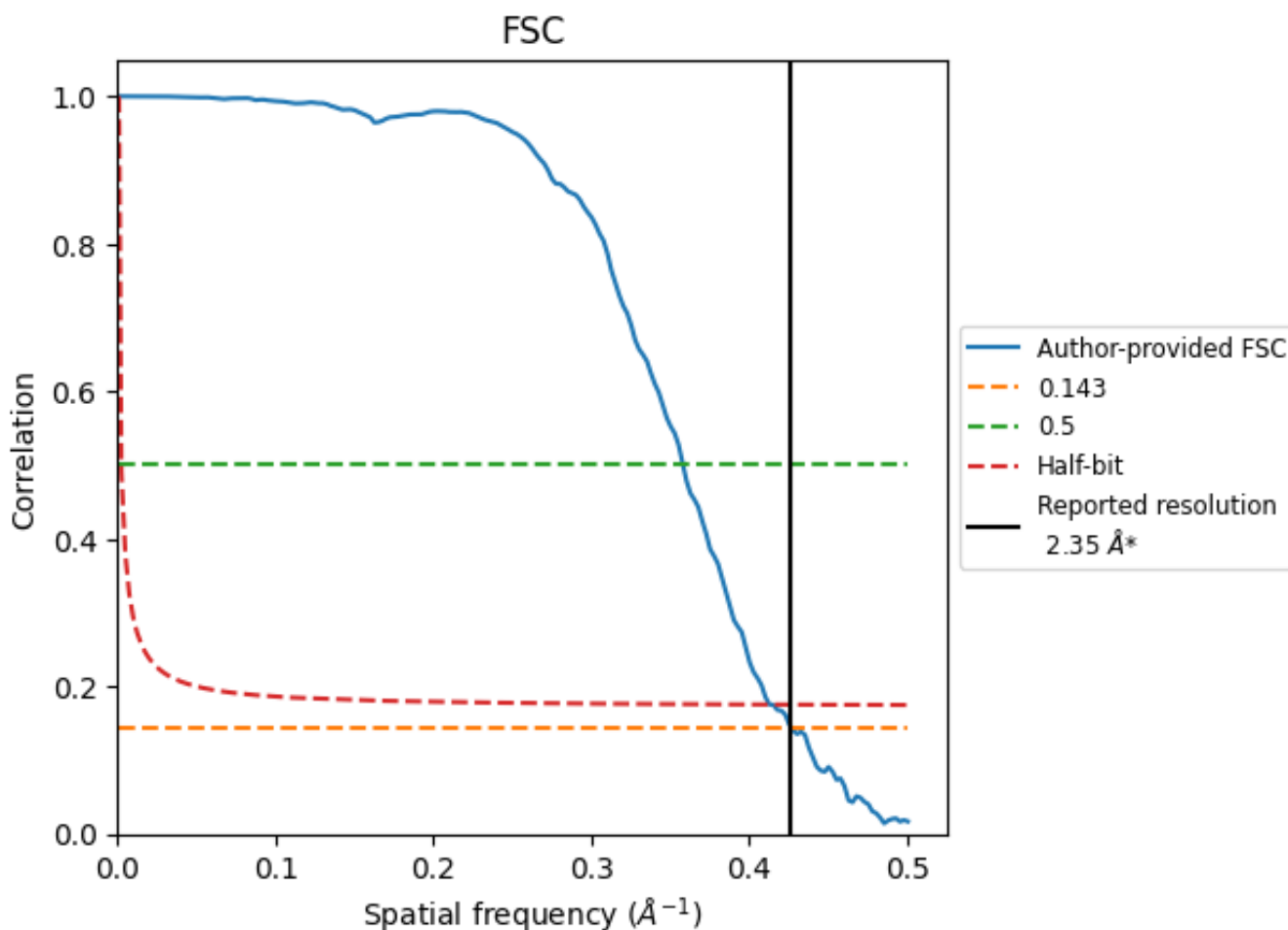


\*Reported resolution corresponds to spatial frequency of 0.426 Å<sup>-1</sup>

## 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](#)

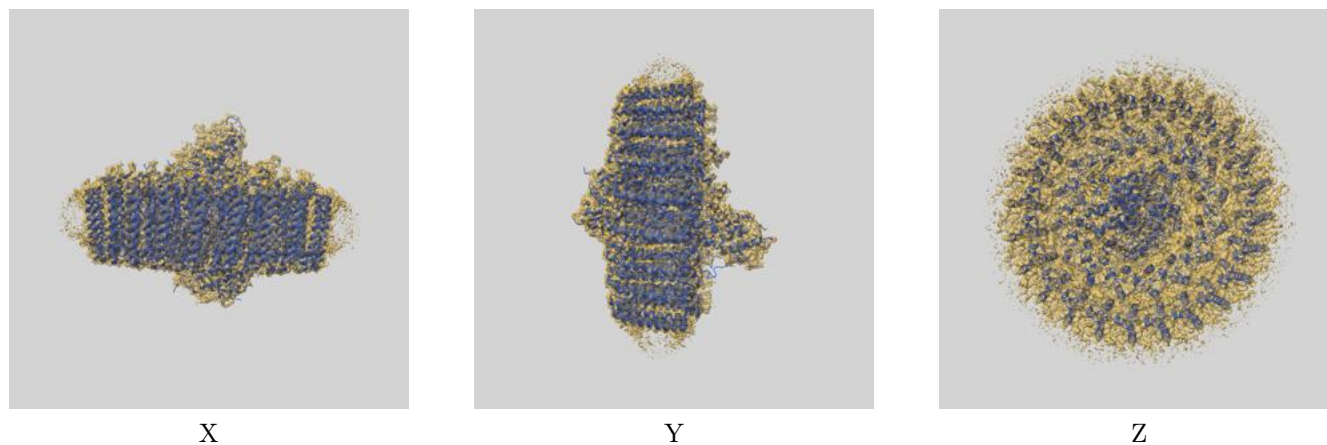
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.35	-	-
Author-provided FSC curve	2.34	2.79	2.42
Unmasked-calculated*	-	-	-

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

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

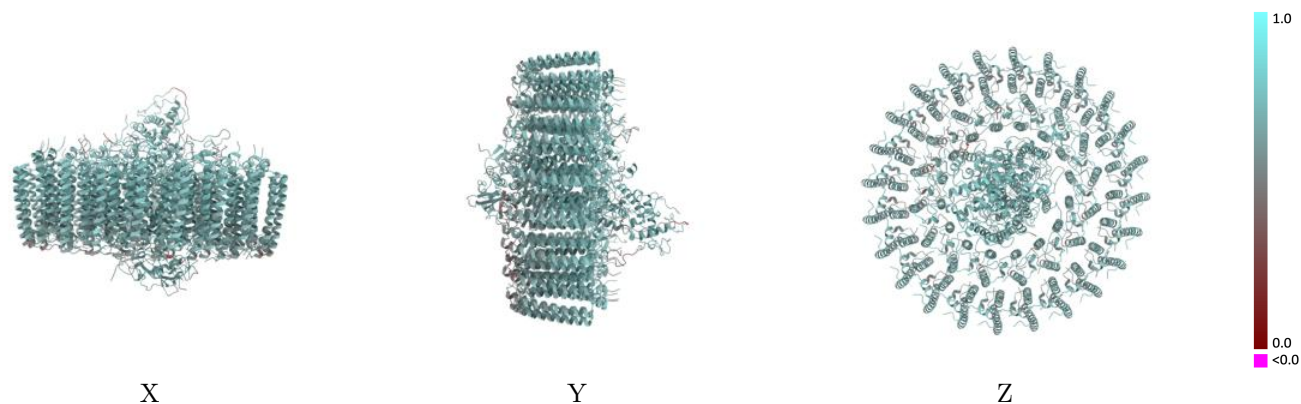
This section contains information regarding the fit between EMDB map EMD-12679 and PDB model 7O0U. Per-residue inclusion information can be found in section 3 on page 38.

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



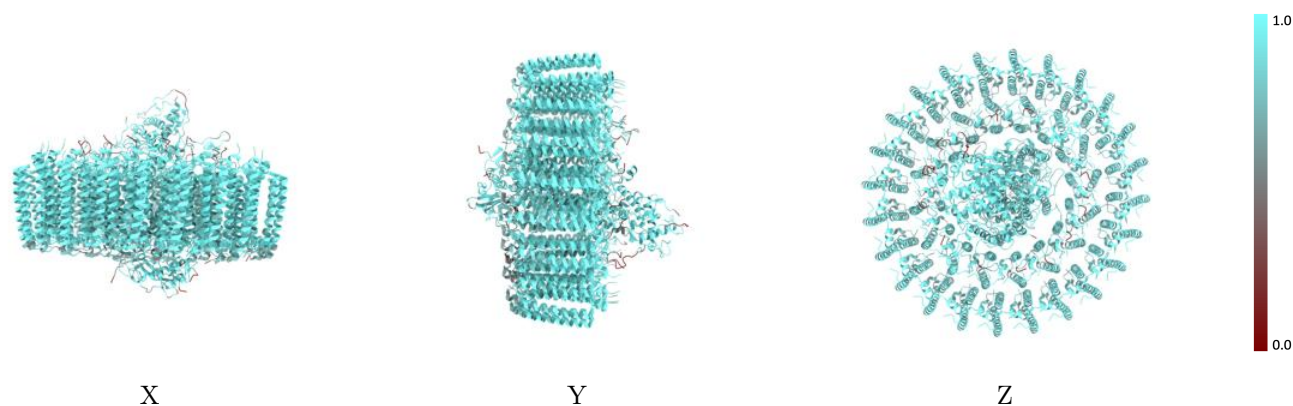
The images above show the 3D surface view of the map at the recommended contour level 0.0238 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



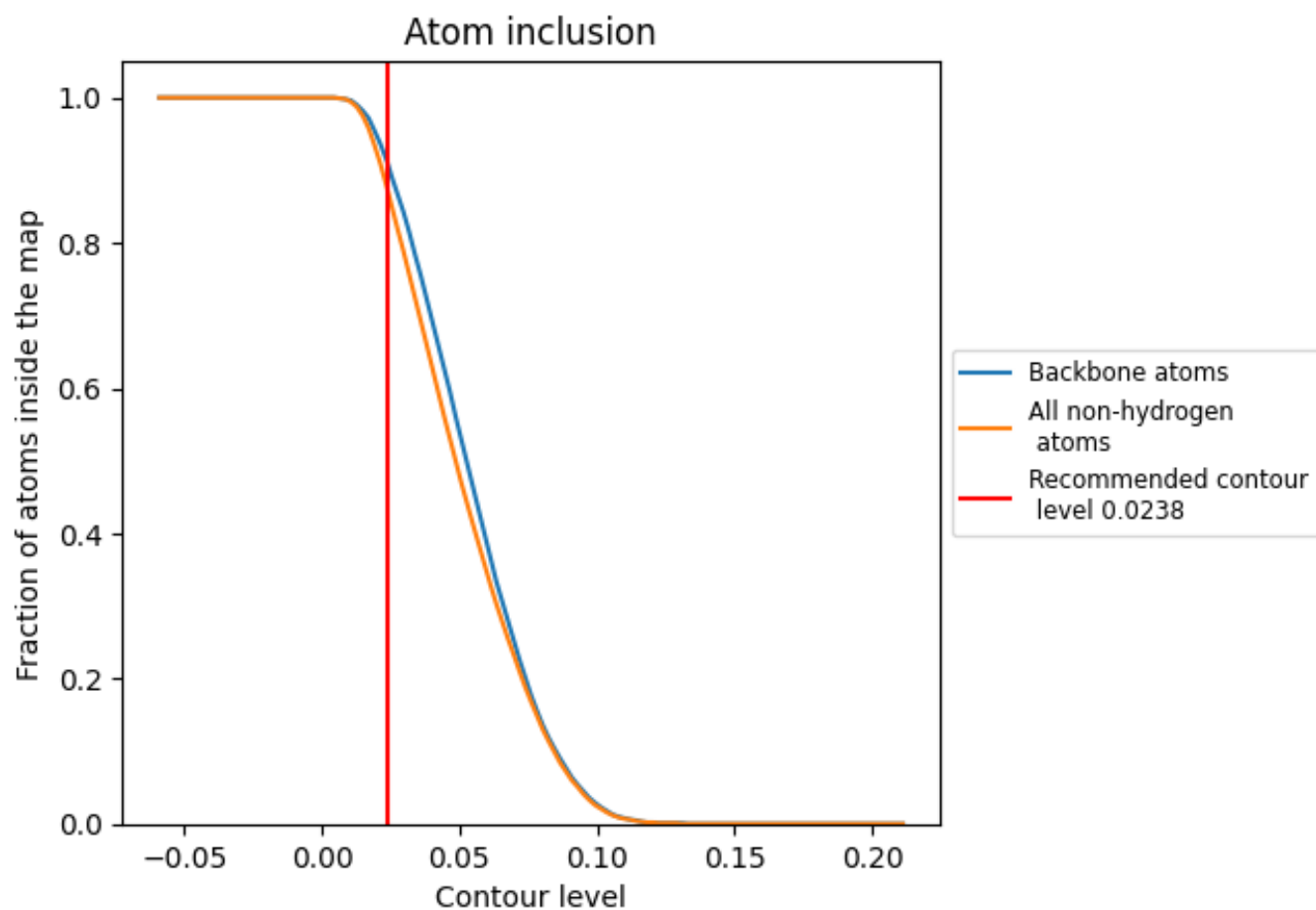
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

## 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	Q-score
All	0.8740	0.6290
AA	0.9010	0.6220
AB	0.8030	0.5930
AC	0.9450	0.6330
AD	0.9230	0.6400
AE	0.8790	0.6220
AF	0.8660	0.6200
AG	0.9470	0.6570
AH	0.8960	0.6300
AI	0.8450	0.6110
AJ	0.9250	0.6430
AK	0.8930	0.6300
AL	0.8270	0.5890
AM	0.9150	0.6430
AN	0.8220	0.5970
AO	0.9480	0.6420
AP	0.9340	0.6470
AQ	0.9000	0.6250
AR	0.8450	0.6120
AS	0.8910	0.6350
AT	0.8950	0.6180
AU	0.8700	0.6210
AV	0.8960	0.6310
AW	0.8540	0.5990
AX	0.9460	0.6360
BA	0.7370	0.5660
BB	0.7880	0.5780
BC	0.7820	0.5840
BD	0.7800	0.5790
BE	0.8240	0.5860
BF	0.8460	0.6040
BG	0.8000	0.6070
BH	0.8360	0.6030
BI	0.8010	0.5870
BJ	0.8320	0.6100



























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Chain	Atom inclusion	Q-score
BK	 0.8320	 0.6100
BL	 0.8030	 0.5840
BM	 0.8170	 0.5930
BN	 0.8190	 0.5900
BO	 0.7980	 0.5860
BP	 0.8260	 0.6020
BQ	 0.8380	 0.6070
BR	 0.8010	 0.5940
BS	 0.7870	 0.5910
BT	 0.8030	 0.5950
BU	 0.7810	 0.5670
BV	 0.8090	 0.5890
BW	 0.8130	 0.5930
BX	 0.8270	 0.5840
C	 0.9410	 0.6750
C1	 0.9310	 0.6730
CG	 0.7140	 0.5680
H1	 0.8800	 0.6510
H2	 0.8770	 0.6140
L	 0.9600	 0.6930
M	 0.9270	 0.6800
MG	 1.0000	 0.6230
aa	 0.8560	 0.6190
ab	 0.8830	 0.6350
ac	 0.9050	 0.6460
ad	 0.9280	 0.6640
ae	 0.8880	 0.6560
af	 0.9080	 0.6530
ag	 0.8400	 0.6230
ah	 0.8890	 0.6340
ai	 0.8720	 0.6320
aj	 0.9160	 0.6430
ak	 0.9540	 0.6680
al	 0.9050	 0.6550
am	 0.9240	 0.6620
an	 0.8030	 0.6070
ao	 0.8500	 0.6020
ap	 0.8390	 0.6030
ba	 0.8520	 0.6190
bb	 0.8400	 0.6080
bc	 0.8960	 0.6360
bd	 0.8900	 0.6440

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Chain	Atom inclusion	Q-score
be	 0.8860	 0.6340
bf	 0.9060	 0.6430
bg	 0.8920	 0.6460
bh	 0.8950	 0.6400
bi	 0.8740	 0.6230
bj	 0.8920	 0.6320
bk	 0.9070	 0.6390
bl	 0.8860	 0.6330
bm	 0.8820	 0.6340
bn	 0.8610	 0.6160
bo	 0.8500	 0.6030
bp	 0.8280	 0.5920