



Full wwPDB EM Validation Report ⓘ

Jul 10, 2023 – 04:03 PM EDT

PDB ID : 7TV3
EMDB ID : EMD-26138
Title : LH2-LH3 antenna in parallel configuration embedded in a nanodisc
Authors : Toporik, H.; Harris, D.; Schlau-Cohen, G.S.; Mazor, Y.
Deposited on : 2022-02-03
Resolution : 11.40 Å (reported)
Based on initial model : 1LGH

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

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

A user guide is available at

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

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

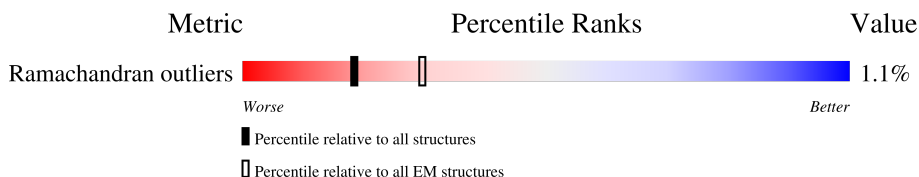
EMDB validation analysis : 0.0.1.dev50
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.34

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 11.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023

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 ≥ 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	A	57	53% 96% ..
1	C	57	53% 96% ..
1	D	57	33% 96% ..
1	G	57	60% 96% ..
1	I	57	53% 96% ..
1	K	57	49% 96% ..
1	M	57	33% 96% ..
1	O	57	25% 96% ..
2	B	43	30% 100%
2	E	43	44% 100%
2	F	43	47% 100%

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Mol	Chain	Length	Quality of chain	
2	H	43	37%	100%
2	J	43	28%	100%
2	L	43	44%	100%
2	N	43	12%	100%
2	P	43	33%	100%
3	Q	57	39%	96%
3	S	57	25%	96%
3	U	57	39%	96%
3	W	57	51%	96%
3	Y	57	53%	96%
3	a	57	58%	96%
3	c	57	33%	96%
3	e	57	37%	96%
4	R	46	24%	93%
4	T	46	33%	93%
4	V	46	46%	93%
4	X	46	65%	93%
4	Z	46	41%	93%
4	b	46	33%	93%
4	d	46	30%	93%
4	f	46	30%	93%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 9816 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 Light-harvesting protein B-800/850 alpha chain.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
1	A	56	278	166	56	56	0	0
1	C	56	278	166	56	56	0	0
1	D	56	278	166	56	56	0	0
1	G	56	278	166	56	56	0	0
1	I	56	278	166	56	56	0	0
1	K	56	278	166	56	56	0	0
1	M	56	278	166	56	56	0	0
1	O	56	278	166	56	56	0	0

- Molecule 2 is a protein called Light-harvesting protein B-800/850 beta 1 chain.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
2	B	43	214	128	43	43	0	0
2	E	43	214	128	43	43	0	0
2	F	43	214	128	43	43	0	0
2	H	43	214	128	43	43	0	0
2	J	43	214	128	43	43	0	0
2	L	43	214	128	43	43	0	0
2	N	43	214	128	43	43	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
2	P	43	214	128	43	43	0	0

- Molecule 3 is a protein called Light-harvesting protein B800-820 alpha chain.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
3	Q	56	279	167	56	56	0	0
3	S	56	279	167	56	56	0	0
3	U	56	279	167	56	56	0	0
3	W	56	279	167	56	56	0	0
3	Y	56	279	167	56	56	0	0
3	a	56	279	167	56	56	0	0
3	c	56	279	167	56	56	0	0
3	e	56	279	167	56	56	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Q	0	MET	-	initiating methionine	UNP Q7M119
S	0	MET	-	initiating methionine	UNP Q7M119
U	0	MET	-	initiating methionine	UNP Q7M119
W	0	MET	-	initiating methionine	UNP Q7M119
Y	0	MET	-	initiating methionine	UNP Q7M119
a	0	MET	-	initiating methionine	UNP Q7M119
c	0	MET	-	initiating methionine	UNP Q7M119
e	0	MET	-	initiating methionine	UNP Q7M119

- Molecule 4 is a protein called Light-harvesting protein B800-820 beta chain.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
4	R	43	214	128	43	43	0	0
4	T	43	214	128	43	43	0	0

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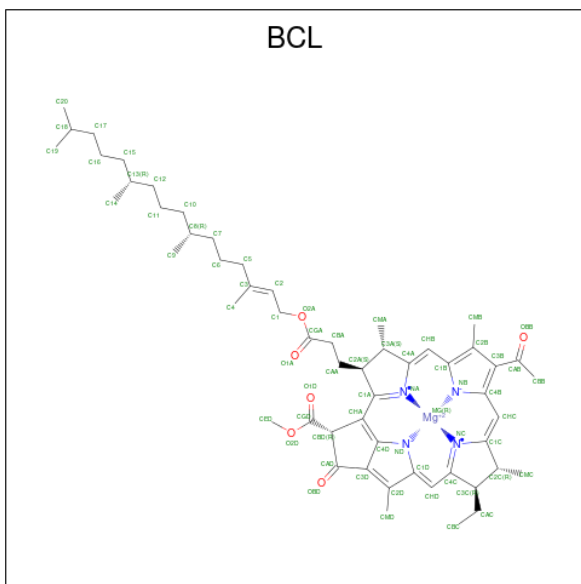
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Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
4	V	43	Total 214	C 128	N 43	O 43	0	0
4	X	43	Total 214	C 128	N 43	O 43	0	0
4	Z	43	Total 214	C 128	N 43	O 43	0	0
4	b	43	Total 214	C 128	N 43	O 43	0	0
4	d	43	Total 214	C 128	N 43	O 43	0	0
4	f	43	Total 214	C 128	N 43	O 43	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
R	0	MET	-	initiating methionine	UNP Q7M158
T	0	MET	-	initiating methionine	UNP Q7M158
V	0	MET	-	initiating methionine	UNP Q7M158
X	0	MET	-	initiating methionine	UNP Q7M158
Z	0	MET	-	initiating methionine	UNP Q7M158
b	0	MET	-	initiating methionine	UNP Q7M158
d	0	MET	-	initiating methionine	UNP Q7M158
f	0	MET	-	initiating methionine	UNP Q7M158

- Molecule 5 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
5	A	1	Total 27	C 22	Mg 1	N 4	0
5	A	1	Total 27	C 22	Mg 1	N 4	0
5	B	1	Total 27	C 22	Mg 1	N 4	0
5	C	1	Total 27	C 22	Mg 1	N 4	0
5	C	1	Total 27	C 22	Mg 1	N 4	0
5	D	1	Total 27	C 22	Mg 1	N 4	0
5	D	1	Total 27	C 22	Mg 1	N 4	0
5	E	1	Total 27	C 22	Mg 1	N 4	0
5	F	1	Total 27	C 22	Mg 1	N 4	0
5	G	1	Total 27	C 22	Mg 1	N 4	0
5	G	1	Total 27	C 22	Mg 1	N 4	0
5	H	1	Total 27	C 22	Mg 1	N 4	0
5	I	1	Total 27	C 22	Mg 1	N 4	0
5	I	1	Total 27	C 22	Mg 1	N 4	0
5	J	1	Total 27	C 22	Mg 1	N 4	0
5	K	1	Total 27	C 22	Mg 1	N 4	0
5	K	1	Total 27	C 22	Mg 1	N 4	0
5	L	1	Total 27	C 22	Mg 1	N 4	0
5	M	1	Total 27	C 22	Mg 1	N 4	0
5	M	1	Total 27	C 22	Mg 1	N 4	0
5	N	1	Total 27	C 22	Mg 1	N 4	0
5	O	1	Total 27	C 22	Mg 1	N 4	0

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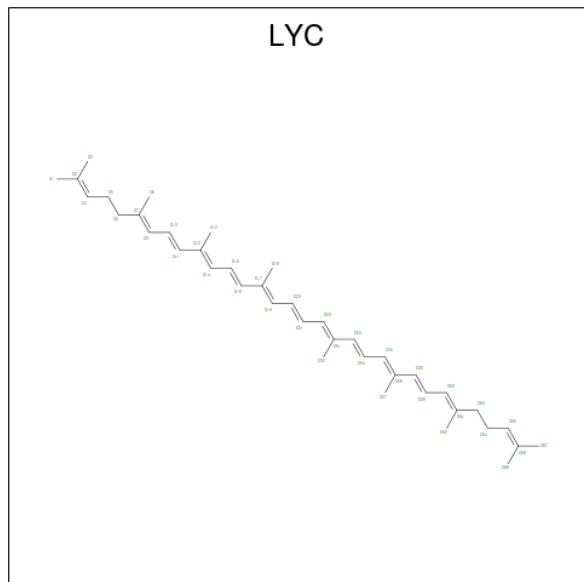
Mol	Chain	Residues	Atoms				AltConf
5	O	1	Total	C	Mg	N	0
			27	22	1	4	
5	P	1	Total	C	Mg	N	0
			27	22	1	4	
5	Q	1	Total	C	Mg	N	0
			27	22	1	4	
5	Q	1	Total	C	Mg	N	0
			27	22	1	4	
5	R	1	Total	C	Mg	N	0
			27	22	1	4	
5	S	1	Total	C	Mg	N	0
			27	22	1	4	
5	S	1	Total	C	Mg	N	0
			27	22	1	4	
5	T	1	Total	C	Mg	N	0
			27	22	1	4	
5	U	1	Total	C	Mg	N	0
			27	22	1	4	
5	U	1	Total	C	Mg	N	0
			27	22	1	4	
5	V	1	Total	C	Mg	N	0
			27	22	1	4	
5	W	1	Total	C	Mg	N	0
			27	22	1	4	
5	W	1	Total	C	Mg	N	0
			27	22	1	4	
5	X	1	Total	C	Mg	N	0
			27	22	1	4	
5	Y	1	Total	C	Mg	N	0
			27	22	1	4	
5	Y	1	Total	C	Mg	N	0
			27	22	1	4	
5	Z	1	Total	C	Mg	N	0
			27	22	1	4	
5	a	1	Total	C	Mg	N	0
			27	22	1	4	
5	a	1	Total	C	Mg	N	0
			27	22	1	4	
5	b	1	Total	C	Mg	N	0
			27	22	1	4	
5	c	1	Total	C	Mg	N	0
			27	22	1	4	

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	Mg	N	
5	c	1	27	22	1	4	0
5	d	1	27	22	1	4	0
5	e	1	27	22	1	4	0
5	e	1	27	22	1	4	0
5	f	1	27	22	1	4	0

- Molecule 6 is LYCOPENE (three-letter code: LYC) (formula: $C_{40}H_{56}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms		AltConf
6	A	1	Total	C	0
			40	40	
6	C	1	Total	C	0
			40	40	
6	D	1	Total	C	0
			40	40	
6	G	1	Total	C	0
			40	40	
6	I	1	Total	C	0
			40	40	
6	K	1	Total	C	0
			40	40	

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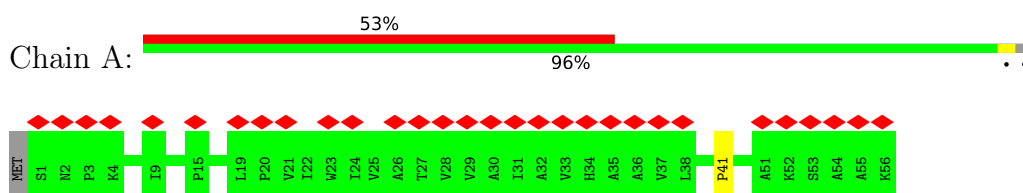
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Mol	Chain	Residues	Atoms	AltConf
6	M	1	Total C 40 40	0
6	O	1	Total C 40 40	0
6	Q	1	Total C 40 40	0
6	S	1	Total C 40 40	0
6	U	1	Total C 40 40	0
6	W	1	Total C 40 40	0
6	Y	1	Total C 40 40	0
6	a	1	Total C 40 40	0
6	c	1	Total C 40 40	0
6	e	1	Total C 40 40	0

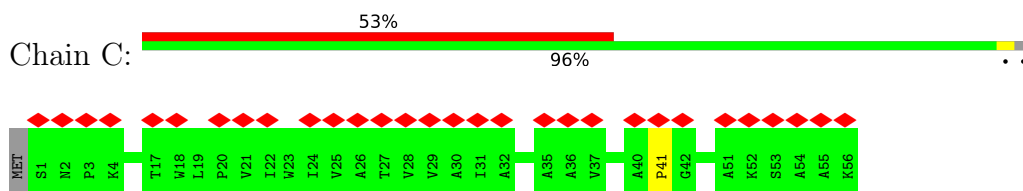
3 Residue-property plots [i](#)

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.

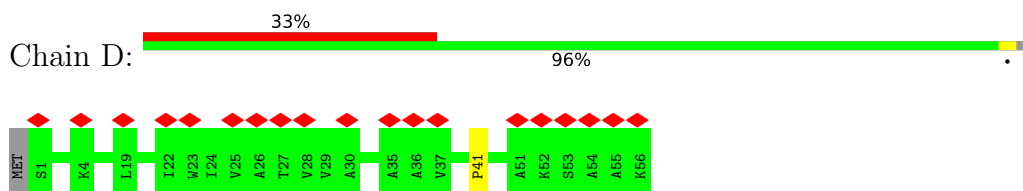
- Molecule 1: Light-harvesting protein B-800/850 alpha chain



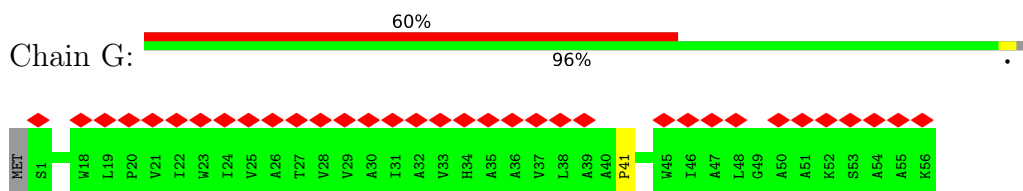
- Molecule 1: Light-harvesting protein B-800/850 alpha chain



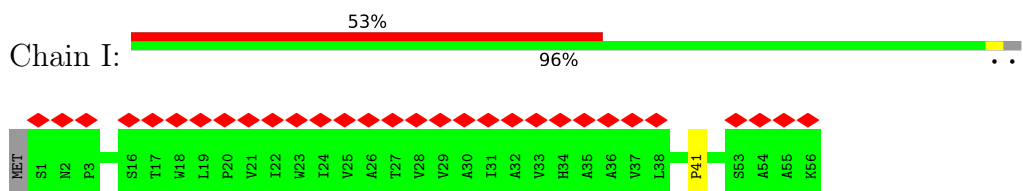
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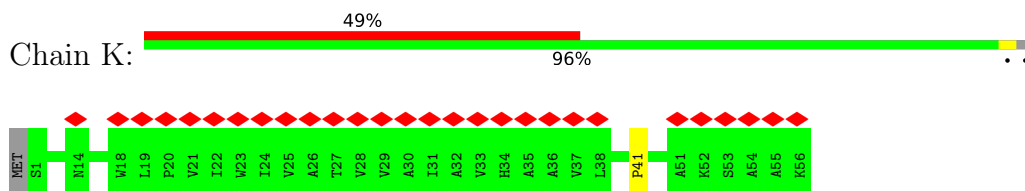
- Molecule 1: Light-harvesting protein B-800/850 alpha chain



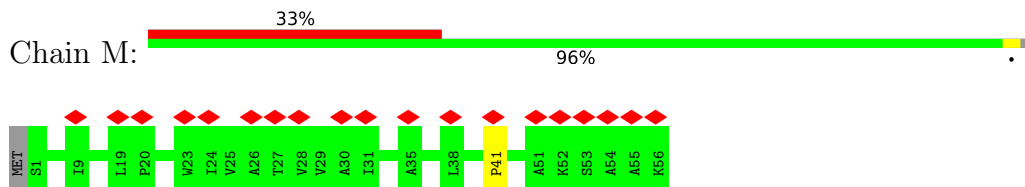
- Molecule 1: Light-harvesting protein B-800/850 alpha chain



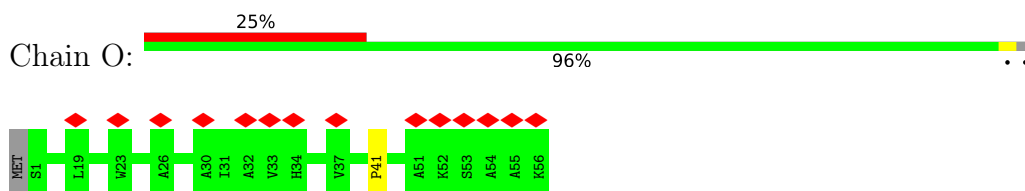
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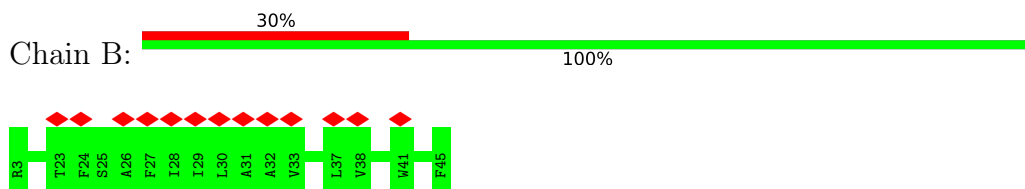
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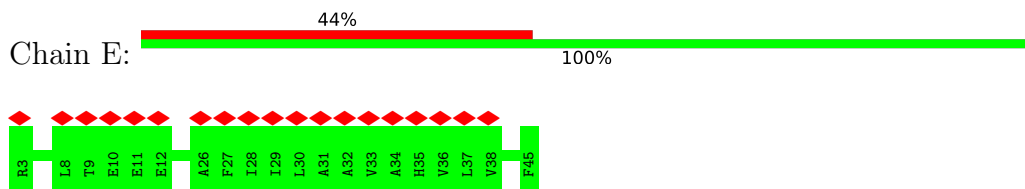
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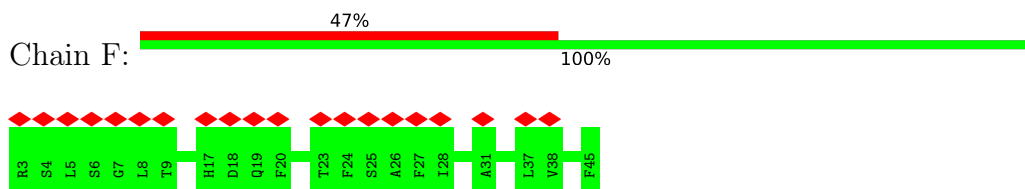
- Molecule 2: Light-harvesting protein B-800/850 beta 1 chain



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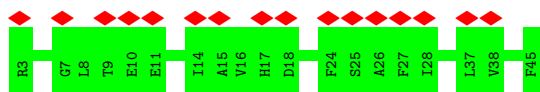


- Molecule 2: Light-harvesting protein B-800/850 beta 1 chain

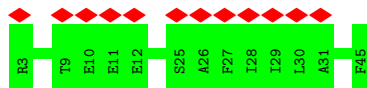


- Molecule 2: Light-harvesting protein B-800/850 beta 1 chain

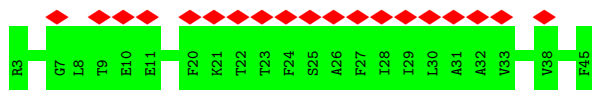
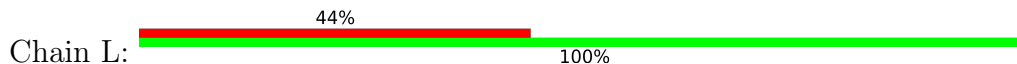




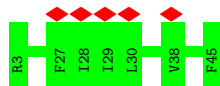
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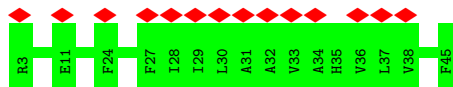
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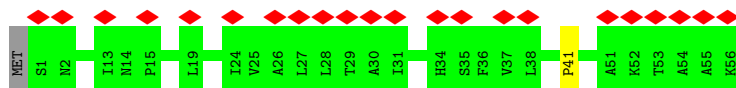
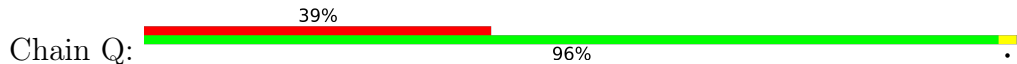
- Molecule 2: Light-harvesting protein B-800/850 beta 1 chain



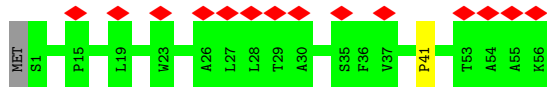
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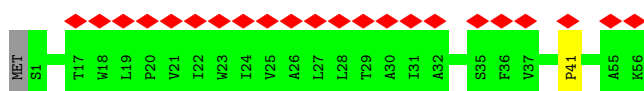
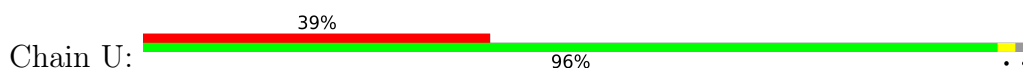
- Molecule 3: Light-harvesting protein B800-820 alpha chain



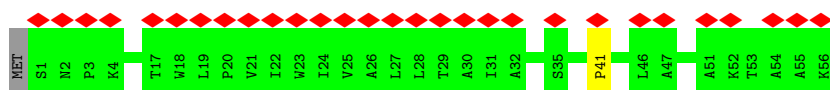
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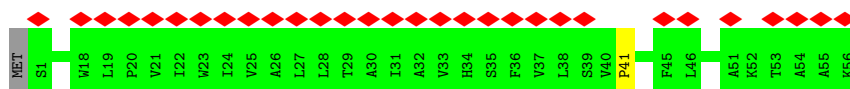
- Molecule 3: Light-harvesting protein B800-820 alpha chain



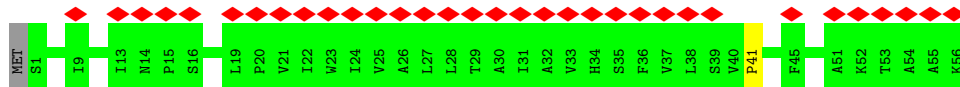
- Molecule 3: Light-harvesting protein B800-820 alpha chain



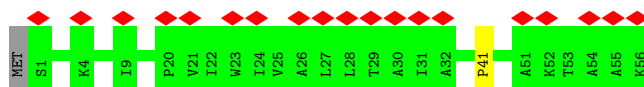
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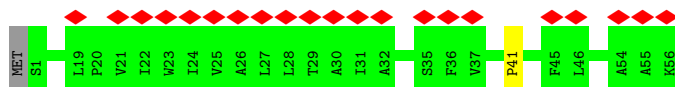
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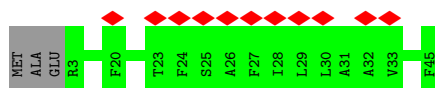
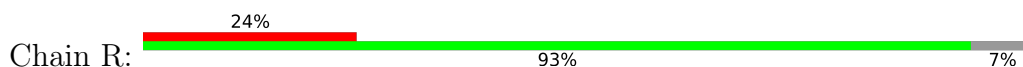
- Molecule 3: Light-harvesting protein B800-820 alpha chain



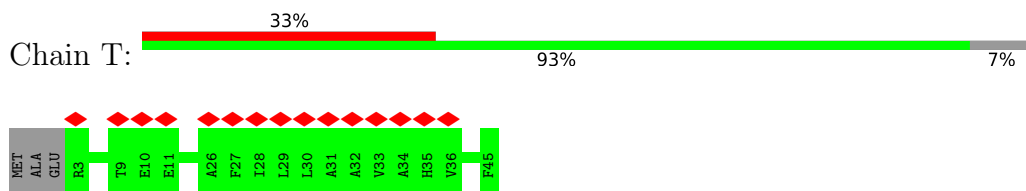
- Molecule 3: Light-harvesting protein B800-820 alpha chain



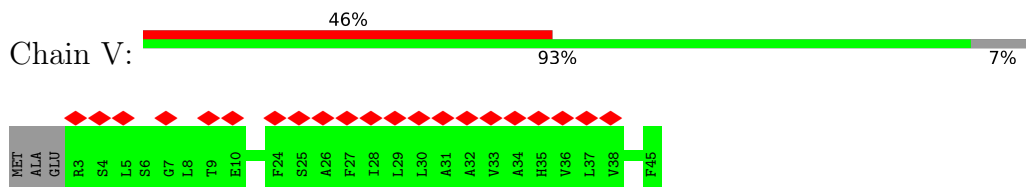
- Molecule 4: Light-harvesting protein B800-820 beta chain



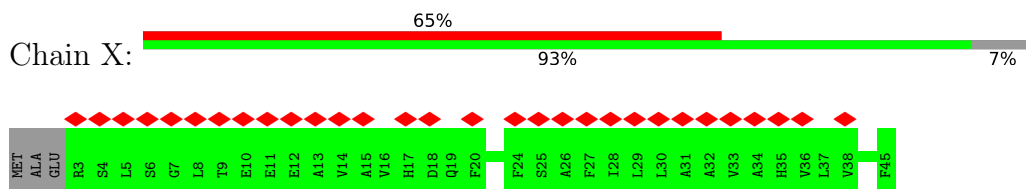
- Molecule 4: Light-harvesting protein B800-820 beta chain



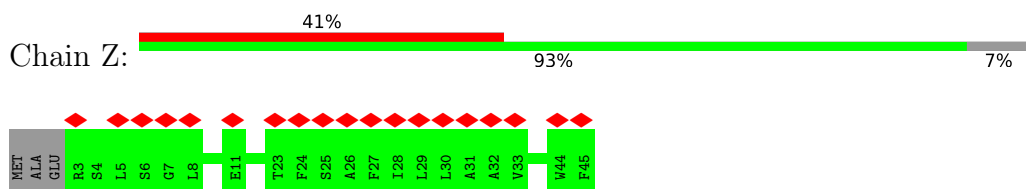
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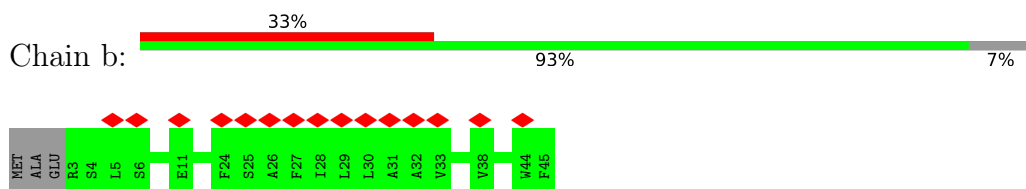
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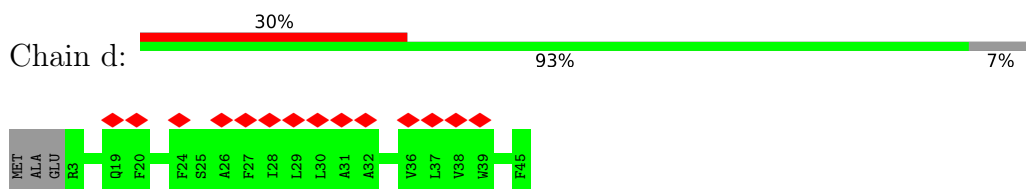
- Molecule 4: Light-harvesting protein B800-820 beta chain



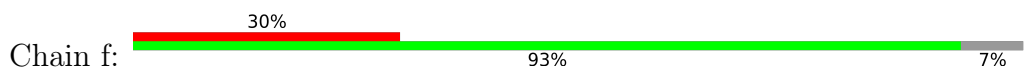
- Molecule 4: Light-harvesting protein B800-820 beta chain

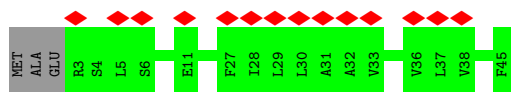


- Molecule 4: Light-harvesting protein B800-820 beta chain



- Molecule 4: Light-harvesting protein B800-820 beta chain





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	22864	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	54.56	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3400	Depositor
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.105	Depositor
Minimum map value	-0.066	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.02	Depositor
Map size (\AA)	320.0, 320.0, 320.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.6, 1.6, 1.6	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LYC, BCL

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.57	0/277	0.69	0/385
1	C	0.57	0/277	0.69	0/385
1	D	0.58	0/277	0.69	0/385
1	G	0.58	0/277	0.69	0/385
1	I	0.58	0/277	0.69	0/385
1	K	0.57	0/277	0.69	0/385
1	M	0.57	0/277	0.69	0/385
1	O	0.57	0/277	0.69	0/385
2	B	0.50	0/213	0.57	0/296
2	E	0.50	0/213	0.57	0/296
2	F	0.50	0/213	0.57	0/296
2	H	0.50	0/213	0.56	0/296
2	J	0.50	0/213	0.57	0/296
2	L	0.50	0/213	0.57	0/296
2	N	0.50	0/213	0.57	0/296
2	P	0.50	0/213	0.57	0/296
3	Q	0.53	0/278	0.69	0/387
3	S	0.54	0/278	0.69	0/387
3	U	0.53	0/278	0.69	0/387
3	W	0.53	0/278	0.69	0/387
3	Y	0.53	0/278	0.69	0/387
3	a	0.54	0/278	0.69	0/387
3	c	0.53	0/278	0.69	0/387
3	e	0.53	0/278	0.69	0/387
4	R	0.49	0/213	0.56	0/296
4	T	0.50	0/213	0.56	0/296
4	V	0.49	0/213	0.56	0/296
4	X	0.49	0/213	0.56	0/296
4	Z	0.49	0/213	0.56	0/296
4	b	0.50	0/213	0.56	0/296
4	d	0.50	0/213	0.56	0/296
4	f	0.50	0/213	0.56	0/296

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	0.53	0/7848	0.64	0/10912

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	A	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
1	C	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
1	D	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
1	G	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
1	I	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
1	K	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
1	M	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
1	O	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
2	B	41/43 (95%)	40 (98%)	1 (2%)	0	100	100
2	E	41/43 (95%)	40 (98%)	1 (2%)	0	100	100
2	F	41/43 (95%)	40 (98%)	1 (2%)	0	100	100
2	H	41/43 (95%)	40 (98%)	1 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	J	41/43 (95%)	40 (98%)	1 (2%)	0	100	100
2	L	41/43 (95%)	40 (98%)	1 (2%)	0	100	100
2	N	41/43 (95%)	40 (98%)	1 (2%)	0	100	100
2	P	41/43 (95%)	40 (98%)	1 (2%)	0	100	100
3	Q	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
3	S	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
3	U	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
3	W	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
3	Y	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
3	a	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
3	c	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
3	e	54/57 (95%)	52 (96%)	1 (2%)	1 (2%)	8	38
4	R	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
4	T	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
4	V	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
4	X	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
4	Z	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
4	b	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
4	d	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
4	f	41/46 (89%)	40 (98%)	1 (2%)	0	100	100
All	All	1520/1624 (94%)	1472 (97%)	32 (2%)	16 (1%)	18	52

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	41	PRO
1	C	41	PRO
1	D	41	PRO
1	G	41	PRO
1	I	41	PRO
1	K	41	PRO
1	M	41	PRO
1	O	41	PRO
3	Q	41	PRO
3	S	41	PRO

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Mol	Chain	Res	Type
3	U	41	PRO
3	W	41	PRO
3	Y	41	PRO
3	a	41	PRO
3	c	41	PRO
3	e	41	PRO

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

64 ligands 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	$\# Z > 2$
5	BCL	c	103	-	19,35,74	3.41	10 (52%)	24,60,115	2.81	5 (20%)
5	BCL	Y	102	-	19,35,74	3.45	10 (52%)	24,60,115	2.78	5 (20%)
5	BCL	M	103	-	19,35,74	3.47	10 (52%)	24,60,115	2.78	5 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	BCL	Q	101	-	19,35,74	2.85	9 (47%)	24,60,115	2.90	8 (33%)
5	BCL	A	101	-	19,35,74	2.86	9 (47%)	24,60,115	2.96	8 (33%)
5	BCL	O	102	-	19,35,74	2.86	9 (47%)	24,60,115	2.97	8 (33%)
6	LYC	Q	103	-	39,39,39	0.99	1 (2%)	44,46,46	2.06	11 (25%)
6	LYC	A	103	-	39,39,39	0.98	1 (2%)	44,46,46	2.06	11 (25%)
5	BCL	B	101	-	19,35,74	3.22	10 (52%)	24,60,115	3.06	6 (25%)
5	BCL	H	101	-	19,35,74	3.23	10 (52%)	24,60,115	3.08	6 (25%)
5	BCL	e	102	-	19,35,74	2.86	9 (47%)	24,60,115	2.97	8 (33%)
6	LYC	I	103	-	39,39,39	0.99	1 (2%)	44,46,46	2.06	12 (27%)
6	LYC	K	101	-	39,39,39	0.98	1 (2%)	44,46,46	2.06	12 (27%)
5	BCL	C	101	-	19,35,74	2.88	9 (47%)	24,60,115	2.95	8 (33%)
6	LYC	M	101	-	39,39,39	0.99	1 (2%)	44,46,46	2.05	11 (25%)
5	BCL	L	101	-	19,35,74	3.17	10 (52%)	24,60,115	3.04	6 (25%)
5	BCL	S	103	-	19,35,74	3.43	10 (52%)	24,60,115	2.84	5 (20%)
5	BCL	D	102	-	19,35,74	2.87	9 (47%)	24,60,115	2.95	8 (33%)
5	BCL	T	101	-	19,35,74	3.22	10 (52%)	24,60,115	3.04	6 (25%)
5	BCL	W	102	-	19,35,74	2.87	9 (47%)	24,60,115	2.95	8 (33%)
5	BCL	E	101	-	19,35,74	3.23	10 (52%)	24,60,115	3.04	6 (25%)
5	BCL	b	101	-	19,35,74	3.22	10 (52%)	24,60,115	3.08	6 (25%)
6	LYC	G	101	-	39,39,39	0.98	1 (2%)	44,46,46	2.05	11 (25%)
6	LYC	U	101	-	39,39,39	0.98	1 (2%)	44,46,46	2.06	12 (27%)
5	BCL	F	101	-	19,35,74	3.20	10 (52%)	24,60,115	3.04	5 (20%)
6	LYC	a	101	-	39,39,39	0.98	1 (2%)	44,46,46	2.05	11 (25%)
6	LYC	e	101	-	39,39,39	1.00	1 (2%)	44,46,46	2.06	11 (25%)
6	LYC	c	101	-	39,39,39	0.99	1 (2%)	44,46,46	2.06	12 (27%)
5	BCL	K	102	-	19,35,74	2.83	9 (47%)	24,60,115	2.93	8 (33%)
5	BCL	M	102	-	19,35,74	2.84	9 (47%)	24,60,115	2.93	8 (33%)
5	BCL	W	103	-	19,35,74	3.46	10 (52%)	24,60,115	2.81	5 (20%)
5	BCL	Z	101	-	19,35,74	3.17	10 (52%)	24,60,115	3.05	6 (25%)
5	BCL	e	103	-	19,35,74	3.45	10 (52%)	24,60,115	2.79	5 (20%)
5	BCL	O	103	-	19,35,74	3.49	10 (52%)	24,60,115	2.82	5 (20%)
5	BCL	D	103	-	19,35,74	3.45	10 (52%)	24,60,115	2.81	5 (20%)
5	BCL	A	102	-	19,35,74	3.46	10 (52%)	24,60,115	2.83	5 (20%)
5	BCL	U	102	-	19,35,74	2.82	9 (47%)	24,60,115	2.95	8 (33%)
5	BCL	G	102	-	19,35,74	2.87	9 (47%)	24,60,115	2.95	8 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	BCL	J	101	-	19,35,74	3.20	10 (52%)	24,60,115	3.03	6 (25%)
6	LYC	D	101	-	39,39,39	0.99	1 (2%)	44,46,46	2.07	12 (27%)
5	BCL	I	101	-	19,35,74	2.84	9 (47%)	24,60,115	2.98	8 (33%)
5	BCL	d	101	-	19,35,74	3.19	10 (52%)	24,60,115	3.03	6 (25%)
6	LYC	C	102	-	39,39,39	0.99	1 (2%)	44,46,46	2.06	11 (25%)
6	LYC	W	101	-	39,39,39	0.99	1 (2%)	44,46,46	2.06	12 (27%)
5	BCL	X	101	-	19,35,74	3.20	10 (52%)	24,60,115	3.06	6 (25%)
5	BCL	a	103	-	19,35,74	3.45	10 (52%)	24,60,115	2.79	5 (20%)
5	BCL	K	103	-	19,35,74	3.44	10 (52%)	24,60,115	2.81	5 (20%)
6	LYC	S	101	-	39,39,39	0.98	1 (2%)	44,46,46	2.06	11 (25%)
5	BCL	c	102	-	19,35,74	2.85	9 (47%)	24,60,115	2.93	8 (33%)
5	BCL	Y	101	-	19,35,74	2.86	9 (47%)	24,60,115	2.96	8 (33%)
6	LYC	O	101	-	39,39,39	0.99	1 (2%)	44,46,46	2.06	11 (25%)
5	BCL	P	101	-	19,35,74	3.24	10 (52%)	24,60,115	3.04	6 (25%)
5	BCL	U	103	-	19,35,74	3.45	10 (52%)	24,60,115	2.81	5 (20%)
5	BCL	G	103	-	19,35,74	3.46	10 (52%)	24,60,115	2.82	5 (20%)
5	BCL	V	101	-	19,35,74	3.20	10 (52%)	24,60,115	3.05	6 (25%)
5	BCL	R	101	-	19,35,74	3.19	10 (52%)	24,60,115	3.06	6 (25%)
6	LYC	Y	103	-	39,39,39	1.00	1 (2%)	44,46,46	2.06	12 (27%)
5	BCL	Q	102	-	19,35,74	3.46	10 (52%)	24,60,115	2.80	5 (20%)
5	BCL	S	102	-	19,35,74	2.87	9 (47%)	24,60,115	2.94	8 (33%)
5	BCL	f	101	-	19,35,74	3.20	10 (52%)	24,60,115	3.05	6 (25%)
5	BCL	I	102	-	19,35,74	3.44	10 (52%)	24,60,115	2.75	5 (20%)
5	BCL	N	101	-	19,35,74	3.19	10 (52%)	24,60,115	3.03	6 (25%)
5	BCL	a	102	-	19,35,74	2.86	9 (47%)	24,60,115	2.96	8 (33%)
5	BCL	C	103	-	19,35,74	3.48	10 (52%)	24,60,115	2.82	5 (20%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	LYC	G	101	-	-	7/43/43/43	-
6	LYC	e	101	-	-	7/43/43/43	-
6	LYC	a	101	-	-	7/43/43/43	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	LYC	D	101	-	-	7/43/43/43	-
6	LYC	U	101	-	-	7/43/43/43	-
6	LYC	W	101	-	-	7/43/43/43	-
6	LYC	C	102	-	-	7/43/43/43	-
6	LYC	Y	103	-	-	7/43/43/43	-
6	LYC	A	103	-	-	7/43/43/43	-
6	LYC	c	101	-	-	7/43/43/43	-
6	LYC	I	103	-	-	7/43/43/43	-
6	LYC	K	101	-	-	7/43/43/43	-
6	LYC	S	101	-	-	7/43/43/43	-
6	LYC	M	101	-	-	7/43/43/43	-
6	LYC	Q	103	-	-	7/43/43/43	-
6	LYC	O	101	-	-	7/43/43/43	-

All (480) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	103	BCL	CHB-C4A	8.44	1.41	1.34
5	O	103	BCL	CHB-C4A	8.41	1.41	1.34
5	C	103	BCL	CHB-C4A	8.41	1.41	1.34
5	W	103	BCL	CHB-C4A	8.35	1.41	1.34
5	a	103	BCL	CHB-C4A	8.34	1.41	1.34
5	Y	102	BCL	CHB-C4A	8.33	1.41	1.34
5	Q	102	BCL	CHB-C4A	8.32	1.41	1.34
5	U	103	BCL	CHB-C4A	8.32	1.41	1.34
5	G	103	BCL	CHB-C4A	8.30	1.41	1.34
5	A	102	BCL	CHB-C4A	8.30	1.41	1.34
5	e	103	BCL	CHB-C4A	8.27	1.41	1.34
5	I	102	BCL	CHB-C4A	8.27	1.41	1.34
5	K	103	BCL	CHB-C4A	8.22	1.41	1.34
5	D	103	BCL	CHB-C4A	8.19	1.41	1.34
5	S	103	BCL	CHB-C4A	8.12	1.41	1.34
5	c	103	BCL	CHB-C4A	8.05	1.41	1.34
5	W	102	BCL	CHB-C4A	7.87	1.40	1.34
5	O	102	BCL	CHB-C4A	7.86	1.40	1.34
5	D	102	BCL	CHB-C4A	7.86	1.40	1.34
5	C	101	BCL	CHB-C4A	7.83	1.40	1.34
5	S	102	BCL	CHB-C4A	7.80	1.40	1.34
5	c	102	BCL	CHB-C4A	7.79	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	G	102	BCL	CHB-C4A	7.79	1.40	1.34
5	Y	101	BCL	CHB-C4A	7.73	1.40	1.34
5	U	102	BCL	CHB-C4A	7.70	1.40	1.34
5	a	102	BCL	CHB-C4A	7.70	1.40	1.34
5	Q	101	BCL	CHB-C4A	7.69	1.40	1.34
5	A	101	BCL	CHB-C4A	7.68	1.40	1.34
5	I	101	BCL	CHB-C4A	7.65	1.40	1.34
5	e	102	BCL	CHB-C4A	7.65	1.40	1.34
5	M	102	BCL	CHB-C4A	7.62	1.40	1.34
5	K	102	BCL	CHB-C4A	7.58	1.40	1.34
5	P	101	BCL	CHB-C4A	7.48	1.40	1.34
5	N	101	BCL	CHB-C4A	7.33	1.40	1.34
5	B	101	BCL	CHB-C4A	7.30	1.40	1.34
5	E	101	BCL	CHB-C4A	7.30	1.40	1.34
5	b	101	BCL	CHB-C4A	7.29	1.40	1.34
5	H	101	BCL	CHB-C4A	7.29	1.40	1.34
5	V	101	BCL	CHB-C4A	7.29	1.40	1.34
5	R	101	BCL	CHB-C4A	7.27	1.40	1.34
5	T	101	BCL	CHB-C4A	7.26	1.40	1.34
5	D	103	BCL	CHC-C1C	7.26	1.40	1.34
5	X	101	BCL	CHB-C4A	7.25	1.40	1.34
5	f	101	BCL	CHB-C4A	7.25	1.40	1.34
5	F	101	BCL	CHB-C4A	7.25	1.40	1.34
5	J	101	BCL	CHB-C4A	7.24	1.40	1.34
5	U	103	BCL	CHC-C1C	7.24	1.40	1.34
5	d	101	BCL	CHB-C4A	7.24	1.40	1.34
5	G	103	BCL	CHC-C1C	7.20	1.40	1.34
5	C	103	BCL	CHC-C1C	7.19	1.40	1.34
5	Z	101	BCL	CHB-C4A	7.19	1.40	1.34
5	S	103	BCL	CHC-C1C	7.18	1.40	1.34
5	A	102	BCL	CHC-C1C	7.17	1.40	1.34
5	I	102	BCL	CHC-C1C	7.17	1.40	1.34
5	O	103	BCL	CHC-C1C	7.17	1.40	1.34
5	e	103	BCL	CHC-C1C	7.17	1.40	1.34
5	Q	102	BCL	CHC-C1C	7.15	1.40	1.34
5	M	103	BCL	CHC-C1C	7.15	1.40	1.34
5	T	101	BCL	CHC-C1C	7.15	1.40	1.34
5	L	101	BCL	CHB-C4A	7.13	1.40	1.34
5	E	101	BCL	CHC-C1C	7.12	1.40	1.34
5	H	101	BCL	CHC-C1C	7.12	1.40	1.34
5	K	103	BCL	CHC-C1C	7.12	1.40	1.34
5	a	103	BCL	CHC-C1C	7.10	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	Y	102	BCL	CHC-C1C	7.08	1.40	1.34
5	W	103	BCL	CHC-C1C	7.08	1.40	1.34
5	B	101	BCL	CHC-C1C	7.07	1.40	1.34
5	F	101	BCL	CHC-C1C	7.06	1.40	1.34
5	b	101	BCL	CHC-C1C	7.06	1.40	1.34
5	X	101	BCL	CHC-C1C	7.03	1.40	1.34
5	d	101	BCL	CHC-C1C	7.01	1.40	1.34
5	R	101	BCL	CHC-C1C	7.01	1.40	1.34
5	c	103	BCL	CHC-C1C	6.99	1.40	1.34
5	L	101	BCL	CHC-C1C	6.99	1.40	1.34
5	f	101	BCL	CHC-C1C	6.97	1.40	1.34
5	P	101	BCL	CHC-C1C	6.96	1.40	1.34
5	J	101	BCL	CHC-C1C	6.95	1.40	1.34
5	N	101	BCL	CHC-C1C	6.91	1.40	1.34
5	V	101	BCL	CHC-C1C	6.85	1.40	1.34
5	Z	101	BCL	CHC-C1C	6.85	1.40	1.34
5	D	103	BCL	MG-NA	5.34	2.19	2.06
5	S	103	BCL	MG-NA	5.34	2.18	2.06
5	A	102	BCL	MG-NA	5.33	2.18	2.06
5	Q	102	BCL	MG-NA	5.31	2.18	2.06
5	e	103	BCL	MG-NA	5.31	2.18	2.06
5	c	103	BCL	MG-NA	5.30	2.18	2.06
5	O	103	BCL	MG-NA	5.30	2.18	2.06
5	G	103	BCL	MG-NA	5.30	2.18	2.06
5	U	103	BCL	MG-NA	5.30	2.18	2.06
5	Y	102	BCL	MG-NA	5.29	2.18	2.06
5	W	103	BCL	MG-NA	5.29	2.18	2.06
5	C	103	BCL	MG-NA	5.28	2.18	2.06
5	M	103	BCL	MG-NA	5.27	2.18	2.06
5	Q	101	BCL	CHC-C1C	5.27	1.38	1.34
5	I	102	BCL	MG-NA	5.26	2.18	2.06
5	K	103	BCL	MG-NA	5.25	2.18	2.06
5	a	103	BCL	MG-NA	5.23	2.18	2.06
5	a	102	BCL	CHC-C1C	5.19	1.38	1.34
5	M	102	BCL	CHC-C1C	5.15	1.38	1.34
5	A	101	BCL	CHC-C1C	5.11	1.38	1.34
5	D	102	BCL	CHC-C1C	5.07	1.38	1.34
5	S	102	BCL	CHC-C1C	5.07	1.38	1.34
5	c	102	BCL	CHC-C1C	5.06	1.38	1.34
5	K	102	BCL	CHC-C1C	5.04	1.38	1.34
5	C	101	BCL	CHC-C1C	5.04	1.38	1.34
5	U	102	BCL	CHC-C1C	5.02	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	e	102	BCL	CHC-C1C	5.02	1.38	1.34
5	G	102	BCL	CHC-C1C	5.02	1.38	1.34
5	I	101	BCL	CHC-C1C	5.02	1.38	1.34
5	W	102	BCL	CHC-C1C	5.01	1.38	1.34
5	Y	101	BCL	CHC-C1C	4.98	1.38	1.34
5	O	102	BCL	CHC-C1C	4.86	1.38	1.34
5	f	101	BCL	MG-NC	4.43	2.16	2.06
5	X	101	BCL	MG-NC	4.42	2.16	2.06
5	b	101	BCL	MG-NC	4.42	2.16	2.06
5	R	101	BCL	MG-NC	4.39	2.16	2.06
5	B	101	BCL	MG-NC	4.39	2.16	2.06
5	E	101	BCL	MG-NC	4.37	2.16	2.06
5	H	101	BCL	MG-NC	4.37	2.16	2.06
5	T	101	BCL	MG-NC	4.37	2.16	2.06
5	L	101	BCL	MG-NC	4.36	2.16	2.06
5	F	101	BCL	MG-NC	4.35	2.16	2.06
5	P	101	BCL	MG-NC	4.35	2.16	2.06
5	d	101	BCL	MG-NC	4.35	2.16	2.06
5	Z	101	BCL	MG-NC	4.35	2.16	2.06
5	V	101	BCL	MG-NC	4.34	2.16	2.06
5	N	101	BCL	MG-NC	4.34	2.16	2.06
5	J	101	BCL	MG-NC	4.33	2.16	2.06
5	Y	101	BCL	CAD-C3D	-4.15	1.44	1.51
5	A	101	BCL	CAD-C3D	-4.15	1.44	1.51
5	e	102	BCL	CAD-C3D	-4.14	1.44	1.51
5	W	102	BCL	CAD-C3D	-4.14	1.44	1.51
5	C	101	BCL	CAD-C3D	-4.11	1.44	1.51
5	G	102	BCL	CAD-C3D	-4.10	1.44	1.51
5	S	102	BCL	CAD-C3D	-4.10	1.44	1.51
5	D	102	BCL	CAD-C3D	-4.07	1.44	1.51
5	I	101	BCL	CAD-C3D	-4.07	1.44	1.51
5	c	102	BCL	CAD-C3D	-4.06	1.44	1.51
5	Q	101	BCL	CAD-C3D	-4.05	1.44	1.51
5	K	102	BCL	CAD-C3D	-4.04	1.44	1.51
5	M	102	BCL	CAD-C3D	-4.04	1.44	1.51
5	a	102	BCL	CAD-C3D	-4.04	1.44	1.51
5	O	102	BCL	CAD-C3D	-4.04	1.44	1.51
5	U	102	BCL	CAD-C3D	-4.00	1.44	1.51
5	C	103	BCL	C3B-C4B	3.97	1.46	1.39
5	A	102	BCL	C1B-NB	3.93	1.38	1.35
5	Q	102	BCL	C3B-C4B	3.92	1.46	1.39
5	Q	102	BCL	C1B-NB	3.90	1.38	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	e	103	BCL	C3B-C4B	3.90	1.46	1.39
5	K	103	BCL	C1B-NB	3.90	1.38	1.35
5	Y	102	BCL	C3B-C4B	3.90	1.46	1.39
5	G	103	BCL	C3B-C4B	3.89	1.46	1.39
5	S	103	BCL	C3B-C4B	3.89	1.46	1.39
5	a	103	BCL	C3B-C4B	3.89	1.46	1.39
5	M	103	BCL	C3B-C4B	3.89	1.46	1.39
5	O	103	BCL	C3B-C4B	3.89	1.46	1.39
5	c	103	BCL	C3B-C4B	3.89	1.46	1.39
5	I	102	BCL	C3B-C4B	3.88	1.46	1.39
5	K	103	BCL	C3B-C4B	3.87	1.46	1.39
5	Y	102	BCL	C1B-NB	3.86	1.38	1.35
5	P	101	BCL	CAD-C3D	-3.85	1.45	1.51
5	c	103	BCL	C1B-NB	3.85	1.38	1.35
5	C	103	BCL	C1B-NB	3.85	1.38	1.35
5	O	103	BCL	C1B-NB	3.85	1.38	1.35
5	D	103	BCL	C3B-C4B	3.84	1.46	1.39
5	W	103	BCL	C3B-C4B	3.84	1.46	1.39
5	U	103	BCL	C3B-C4B	3.84	1.46	1.39
5	A	102	BCL	C3B-C4B	3.84	1.46	1.39
5	W	103	BCL	C1B-NB	3.82	1.38	1.35
5	D	103	BCL	C1B-NB	3.80	1.38	1.35
5	G	103	BCL	C1B-NB	3.80	1.38	1.35
5	a	103	BCL	C1B-NB	3.80	1.38	1.35
5	M	103	BCL	C1B-NB	3.78	1.38	1.35
5	e	103	BCL	C1B-NB	3.77	1.38	1.35
5	S	103	BCL	C1B-NB	3.76	1.38	1.35
5	Z	101	BCL	CAD-C3D	-3.75	1.45	1.51
5	b	101	BCL	CAD-C3D	-3.74	1.45	1.51
5	N	101	BCL	CAD-C3D	-3.74	1.45	1.51
5	E	101	BCL	CAD-C3D	-3.73	1.45	1.51
5	U	103	BCL	C1B-NB	3.73	1.38	1.35
5	V	101	BCL	CAD-C3D	-3.72	1.45	1.51
5	I	102	BCL	C1B-NB	3.72	1.38	1.35
5	f	101	BCL	CAD-C3D	-3.71	1.45	1.51
5	J	101	BCL	CAD-C3D	-3.70	1.45	1.51
5	T	101	BCL	CAD-C3D	-3.70	1.45	1.51
5	X	101	BCL	CAD-C3D	-3.70	1.45	1.51
5	d	101	BCL	CAD-C3D	-3.69	1.45	1.51
5	B	101	BCL	CAD-C3D	-3.68	1.45	1.51
5	F	101	BCL	CAD-C3D	-3.68	1.45	1.51
5	H	101	BCL	CAD-C3D	-3.66	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	R	101	BCL	CAD-C3D	-3.64	1.45	1.51
5	L	101	BCL	CAD-C3D	-3.64	1.45	1.51
5	B	101	BCL	C4B-NB	3.54	1.38	1.35
5	f	101	BCL	C4B-NB	3.52	1.38	1.35
5	O	103	BCL	C4B-NB	3.51	1.38	1.35
5	P	101	BCL	C4B-NB	3.50	1.38	1.35
5	H	101	BCL	C4B-NB	3.50	1.38	1.35
5	Z	101	BCL	C4B-NB	3.47	1.38	1.35
5	V	101	BCL	C4B-NB	3.46	1.38	1.35
5	F	101	BCL	C4B-NB	3.46	1.38	1.35
5	b	101	BCL	C4B-NB	3.45	1.38	1.35
5	J	101	BCL	C4B-NB	3.44	1.38	1.35
5	E	101	BCL	C4B-NB	3.43	1.38	1.35
5	N	101	BCL	C4B-NB	3.42	1.38	1.35
5	I	102	BCL	C4B-NB	3.42	1.38	1.35
5	E	101	BCL	C3B-C4B	3.40	1.45	1.39
5	b	101	BCL	C3B-C4B	3.39	1.45	1.39
5	W	103	BCL	C4B-NB	3.39	1.38	1.35
5	U	103	BCL	C4B-NB	3.38	1.38	1.35
5	V	101	BCL	C3B-C4B	3.37	1.45	1.39
5	d	101	BCL	C3B-C4B	3.36	1.45	1.39
5	L	101	BCL	C4B-NB	3.36	1.38	1.35
5	G	103	BCL	C4B-NB	3.36	1.38	1.35
5	X	101	BCL	C3B-C4B	3.36	1.45	1.39
5	T	101	BCL	C4B-NB	3.35	1.38	1.35
5	Q	102	BCL	C4B-NB	3.35	1.38	1.35
5	T	101	BCL	C3B-C4B	3.35	1.45	1.39
5	J	101	BCL	C3B-C4B	3.34	1.45	1.39
5	f	101	BCL	C3B-C4B	3.33	1.45	1.39
5	Z	101	BCL	C3B-C4B	3.33	1.45	1.39
5	B	101	BCL	C3B-C4B	3.33	1.45	1.39
5	F	101	BCL	C3B-C4B	3.32	1.45	1.39
5	M	103	BCL	C4B-NB	3.32	1.38	1.35
5	R	101	BCL	C4B-NB	3.32	1.38	1.35
5	X	101	BCL	C4B-NB	3.31	1.38	1.35
5	c	103	BCL	C4B-NB	3.31	1.38	1.35
5	H	101	BCL	C3B-C4B	3.31	1.45	1.39
5	K	103	BCL	C4B-NB	3.29	1.38	1.35
5	L	101	BCL	C3B-C4B	3.29	1.45	1.39
5	d	101	BCL	C4B-NB	3.28	1.38	1.35
5	N	101	BCL	C3B-C4B	3.28	1.45	1.39
5	P	101	BCL	C3B-C4B	3.28	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	R	101	BCL	C3B-C4B	3.27	1.45	1.39
5	a	103	BCL	C4B-NB	3.27	1.38	1.35
5	e	103	BCL	C4B-NB	3.26	1.38	1.35
5	S	103	BCL	C4B-NB	3.26	1.38	1.35
5	A	102	BCL	C4B-NB	3.25	1.38	1.35
5	Y	102	BCL	C4B-NB	3.22	1.38	1.35
5	C	103	BCL	C4B-NB	3.22	1.38	1.35
5	C	101	BCL	MG-NA	3.20	2.13	2.06
5	D	103	BCL	C4B-NB	3.20	1.38	1.35
5	S	102	BCL	MG-NA	3.18	2.13	2.06
5	G	102	BCL	MG-NA	3.17	2.13	2.06
5	F	101	BCL	MG-NA	3.17	2.13	2.06
5	e	102	BCL	MG-NA	3.17	2.13	2.06
5	D	102	BCL	MG-NA	3.17	2.13	2.06
5	I	101	BCL	MG-NA	3.16	2.13	2.06
5	R	101	BCL	MG-NA	3.16	2.13	2.06
5	b	101	BCL	MG-NA	3.15	2.13	2.06
5	B	101	BCL	MG-NA	3.15	2.13	2.06
5	Z	101	BCL	MG-NA	3.15	2.13	2.06
5	a	102	BCL	MG-NA	3.15	2.13	2.06
5	H	101	BCL	MG-NA	3.15	2.13	2.06
5	Y	101	BCL	MG-NA	3.15	2.13	2.06
5	A	101	BCL	MG-NA	3.14	2.13	2.06
5	V	101	BCL	MG-NA	3.14	2.13	2.06
5	P	101	BCL	MG-NA	3.14	2.13	2.06
5	J	101	BCL	MG-NA	3.14	2.13	2.06
5	d	101	BCL	MG-NA	3.14	2.13	2.06
5	W	103	BCL	CAD-C3D	-3.13	1.46	1.51
5	W	102	BCL	MG-NA	3.13	2.13	2.06
5	O	102	BCL	MG-NA	3.13	2.13	2.06
5	E	101	BCL	MG-NA	3.12	2.13	2.06
5	Q	101	BCL	MG-NA	3.12	2.13	2.06
5	N	101	BCL	MG-NA	3.12	2.13	2.06
5	c	103	BCL	C2B-C1B	3.12	1.45	1.39
5	c	102	BCL	MG-NA	3.11	2.13	2.06
5	L	101	BCL	MG-NA	3.11	2.13	2.06
5	T	101	BCL	MG-NA	3.11	2.13	2.06
5	U	102	BCL	MG-NA	3.11	2.13	2.06
5	K	103	BCL	C2B-C1B	3.11	1.45	1.39
5	X	101	BCL	MG-NA	3.11	2.13	2.06
5	O	103	BCL	CAD-C3D	-3.10	1.46	1.51
5	O	103	BCL	C2B-C1B	3.10	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	e	103	BCL	CAD-C3D	-3.10	1.46	1.51
5	V	101	BCL	C1B-NB	3.10	1.38	1.35
5	W	103	BCL	C2B-C1B	3.09	1.45	1.39
5	K	102	BCL	MG-NA	3.09	2.13	2.06
5	I	102	BCL	C2B-C1B	3.09	1.45	1.39
5	e	103	BCL	C2B-C1B	3.09	1.45	1.39
5	G	103	BCL	CAD-C3D	-3.09	1.46	1.51
5	M	102	BCL	MG-NA	3.08	2.13	2.06
5	C	103	BCL	C2B-C1B	3.08	1.45	1.39
5	M	103	BCL	C2B-C1B	3.08	1.45	1.39
5	f	101	BCL	MG-NA	3.08	2.13	2.06
5	D	103	BCL	C2B-C1B	3.07	1.45	1.39
5	J	101	BCL	C1B-NB	3.07	1.37	1.35
5	e	102	BCL	C4B-NB	3.07	1.37	1.35
5	Y	102	BCL	C2B-C1B	3.07	1.45	1.39
5	O	102	BCL	C4B-NB	3.06	1.37	1.35
5	Y	102	BCL	CAD-C3D	-3.06	1.46	1.51
5	M	102	BCL	C4B-NB	3.06	1.37	1.35
5	A	102	BCL	C2B-C1B	3.06	1.45	1.39
5	C	101	BCL	C1B-NB	3.06	1.37	1.35
5	G	103	BCL	C2B-C1B	3.05	1.45	1.39
5	A	102	BCL	CAD-C3D	-3.04	1.46	1.51
5	M	103	BCL	CAD-C3D	-3.04	1.46	1.51
5	K	103	BCL	CAD-C3D	-3.04	1.46	1.51
5	S	103	BCL	CAD-C3D	-3.04	1.46	1.51
5	a	103	BCL	CAD-C3D	-3.04	1.46	1.51
5	U	103	BCL	C2B-C1B	3.04	1.45	1.39
5	S	103	BCL	C2B-C1B	3.04	1.45	1.39
5	D	103	BCL	CAD-C3D	-3.03	1.46	1.51
5	D	102	BCL	C4B-NB	3.02	1.37	1.35
5	P	101	BCL	C1B-NB	3.02	1.37	1.35
5	a	103	BCL	C2B-C1B	3.02	1.45	1.39
5	A	101	BCL	C1B-NB	3.02	1.37	1.35
5	G	102	BCL	C4B-NB	3.01	1.37	1.35
5	R	101	BCL	C1B-NB	3.00	1.37	1.35
5	C	103	BCL	CAD-C3D	-3.00	1.46	1.51
5	Q	102	BCL	C2B-C1B	3.00	1.45	1.39
5	U	103	BCL	CAD-C3D	-3.00	1.46	1.51
5	E	101	BCL	C1B-NB	2.99	1.37	1.35
5	c	103	BCL	CAD-C3D	-2.99	1.46	1.51
5	H	101	BCL	C1B-NB	2.99	1.37	1.35
5	d	101	BCL	C1B-NB	2.98	1.37	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	e	102	BCL	C1B-NB	2.98	1.37	1.35
5	f	101	BCL	C1B-NB	2.97	1.37	1.35
5	Q	102	BCL	CAD-C3D	-2.97	1.46	1.51
5	N	101	BCL	C1B-NB	2.95	1.37	1.35
5	b	101	BCL	C1B-NB	2.95	1.37	1.35
5	S	102	BCL	C4B-NB	2.95	1.37	1.35
5	L	101	BCL	C1B-NB	2.95	1.37	1.35
5	I	101	BCL	C4B-NB	2.94	1.37	1.35
5	a	102	BCL	C4B-NB	2.94	1.37	1.35
5	K	102	BCL	C4B-NB	2.93	1.37	1.35
5	I	101	BCL	C1B-NB	2.93	1.37	1.35
5	F	101	BCL	C1B-NB	2.93	1.37	1.35
5	I	102	BCL	CAD-C3D	-2.92	1.46	1.51
5	T	101	BCL	C1B-NB	2.92	1.37	1.35
5	Y	101	BCL	C4B-NB	2.91	1.37	1.35
5	a	102	BCL	C1B-NB	2.91	1.37	1.35
5	Q	101	BCL	C4B-NB	2.90	1.37	1.35
5	Z	101	BCL	C1B-NB	2.89	1.37	1.35
5	K	102	BCL	C1B-NB	2.89	1.37	1.35
5	B	101	BCL	C1B-NB	2.89	1.37	1.35
5	G	102	BCL	C1B-NB	2.89	1.37	1.35
5	W	102	BCL	C1B-NB	2.88	1.37	1.35
5	X	101	BCL	C1B-NB	2.88	1.37	1.35
5	Y	101	BCL	C1B-NB	2.88	1.37	1.35
5	M	102	BCL	C1B-NB	2.87	1.37	1.35
5	D	102	BCL	C1B-NB	2.86	1.37	1.35
5	W	102	BCL	C4B-NB	2.86	1.37	1.35
5	S	102	BCL	C1B-NB	2.86	1.37	1.35
5	c	102	BCL	C4B-NB	2.86	1.37	1.35
5	U	102	BCL	C1B-NB	2.85	1.37	1.35
5	O	102	BCL	C1B-NB	2.82	1.37	1.35
5	G	102	BCL	C2B-C1B	2.82	1.44	1.39
5	Q	101	BCL	C1B-NB	2.81	1.37	1.35
5	C	101	BCL	C4B-NB	2.81	1.37	1.35
5	a	102	BCL	C2B-C1B	2.79	1.44	1.39
5	K	102	BCL	C2B-C1B	2.78	1.44	1.39
5	Y	101	BCL	C2B-C1B	2.78	1.44	1.39
5	S	102	BCL	C2B-C1B	2.78	1.44	1.39
5	O	102	BCL	C2B-C1B	2.77	1.44	1.39
5	Q	101	BCL	C2B-C1B	2.77	1.44	1.39
5	A	101	BCL	C4B-NB	2.76	1.37	1.35
5	I	101	BCL	C2B-C1B	2.76	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	c	102	BCL	C1B-NB	2.76	1.37	1.35
5	U	102	BCL	C2B-C1B	2.75	1.44	1.39
5	Y	101	BCL	C3B-C4B	2.74	1.44	1.39
5	A	101	BCL	C2B-C1B	2.73	1.44	1.39
5	C	101	BCL	C2B-C1B	2.73	1.44	1.39
5	e	102	BCL	C2B-C1B	2.72	1.44	1.39
5	c	102	BCL	C2B-C1B	2.71	1.44	1.39
5	D	102	BCL	C2B-C1B	2.70	1.44	1.39
5	W	102	BCL	C2B-C1B	2.69	1.44	1.39
5	C	101	BCL	C3B-C4B	2.69	1.44	1.39
5	K	102	BCL	C3B-C4B	2.69	1.44	1.39
5	M	102	BCL	C2B-C1B	2.69	1.44	1.39
5	W	102	BCL	C3B-C4B	2.68	1.44	1.39
5	C	103	BCL	MG-NC	2.68	2.12	2.06
5	a	103	BCL	MG-NC	2.67	2.12	2.06
5	W	103	BCL	MG-NC	2.66	2.12	2.06
5	U	102	BCL	C3B-C4B	2.66	1.44	1.39
5	c	102	BCL	C3B-C4B	2.66	1.44	1.39
5	U	103	BCL	MG-NC	2.65	2.12	2.06
5	U	102	BCL	C4B-NB	2.65	1.37	1.35
5	A	101	BCL	C3B-C4B	2.65	1.44	1.39
5	S	102	BCL	C3B-C4B	2.65	1.44	1.39
5	D	102	BCL	C3B-C4B	2.64	1.44	1.39
5	M	103	BCL	MG-NC	2.64	2.12	2.06
5	c	103	BCL	MG-NC	2.64	2.12	2.06
5	e	102	BCL	C3B-C4B	2.63	1.44	1.39
5	O	103	BCL	MG-NC	2.63	2.12	2.06
5	G	103	BCL	MG-NC	2.63	2.12	2.06
5	Y	102	BCL	MG-NC	2.63	2.12	2.06
5	K	103	BCL	MG-NC	2.63	2.12	2.06
5	Q	102	BCL	MG-NC	2.63	2.12	2.06
5	I	102	BCL	MG-NC	2.62	2.12	2.06
5	A	102	BCL	MG-NC	2.62	2.12	2.06
5	S	103	BCL	MG-NC	2.62	2.12	2.06
5	I	101	BCL	C3B-C4B	2.60	1.44	1.39
5	M	102	BCL	C3B-C4B	2.60	1.44	1.39
5	G	102	BCL	C3B-C4B	2.59	1.44	1.39
5	e	103	BCL	MG-NC	2.58	2.12	2.06
5	a	102	BCL	C3B-C4B	2.58	1.44	1.39
5	D	103	BCL	MG-NC	2.57	2.12	2.06
5	O	102	BCL	C3B-C4B	2.57	1.44	1.39
5	Q	101	BCL	C3B-C4B	2.55	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	a	103	BCL	CBD-CHA	2.53	1.55	1.52
5	J	101	BCL	C2B-C1B	2.53	1.44	1.39
5	T	101	BCL	CBD-CHA	2.52	1.55	1.52
5	V	101	BCL	C2B-C1B	2.50	1.44	1.39
5	R	101	BCL	C2B-C1B	2.50	1.44	1.39
5	S	103	BCL	CBD-CHA	2.50	1.55	1.52
5	X	101	BCL	C2B-C1B	2.49	1.44	1.39
5	L	101	BCL	C2B-C1B	2.49	1.44	1.39
5	W	103	BCL	CBD-CHA	2.49	1.55	1.52
5	P	101	BCL	C2B-C1B	2.49	1.44	1.39
5	H	101	BCL	C2B-C1B	2.49	1.44	1.39
5	D	103	BCL	CBD-CHA	2.48	1.55	1.52
5	C	103	BCL	CBD-CHA	2.48	1.55	1.52
5	Y	102	BCL	CBD-CHA	2.47	1.55	1.52
5	d	101	BCL	C2B-C1B	2.47	1.44	1.39
5	H	101	BCL	CBD-CHA	2.46	1.55	1.52
5	B	101	BCL	C2B-C1B	2.46	1.44	1.39
5	f	101	BCL	C2B-C1B	2.46	1.44	1.39
5	E	101	BCL	C2B-C1B	2.45	1.44	1.39
5	T	101	BCL	C2B-C1B	2.45	1.44	1.39
5	X	101	BCL	CBD-CHA	2.45	1.55	1.52
5	F	101	BCL	C2B-C1B	2.44	1.44	1.39
5	I	102	BCL	CBD-CHA	2.43	1.55	1.52
5	b	101	BCL	C2B-C1B	2.43	1.44	1.39
5	K	103	BCL	CBD-CHA	2.43	1.55	1.52
5	Z	101	BCL	C2B-C1B	2.43	1.44	1.39
5	b	101	BCL	CBD-CHA	2.42	1.55	1.52
5	G	103	BCL	CBD-CHA	2.42	1.55	1.52
5	Q	102	BCL	CBD-CHA	2.42	1.55	1.52
5	f	101	BCL	CBD-CHA	2.41	1.55	1.52
5	O	103	BCL	CBD-CHA	2.41	1.55	1.52
5	N	101	BCL	C2B-C1B	2.41	1.44	1.39
5	c	103	BCL	CBD-CHA	2.41	1.55	1.52
5	F	101	BCL	CBD-CHA	2.40	1.55	1.52
5	L	101	BCL	CBD-CHA	2.40	1.55	1.52
5	P	101	BCL	CBD-CHA	2.40	1.55	1.52
5	E	101	BCL	CBD-CHA	2.40	1.55	1.52
5	d	101	BCL	CBD-CHA	2.40	1.55	1.52
5	R	101	BCL	CBD-CHA	2.39	1.55	1.52
5	M	103	BCL	CBD-CHA	2.37	1.55	1.52
5	A	102	BCL	CBD-CHA	2.37	1.55	1.52
5	V	101	BCL	CBD-CHA	2.37	1.55	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	Z	101	BCL	CBD-CHA	2.37	1.55	1.52
5	B	101	BCL	CBD-CHA	2.36	1.55	1.52
5	U	103	BCL	CBD-CHA	2.36	1.55	1.52
5	J	101	BCL	CBD-CHA	2.35	1.55	1.52
5	N	101	BCL	CBD-CHA	2.33	1.55	1.52
5	e	103	BCL	CBD-CHA	2.32	1.55	1.52
6	Y	103	LYC	C6-C7	2.30	1.56	1.51
6	I	103	LYC	C6-C7	2.29	1.56	1.51
6	G	101	LYC	C6-C7	2.28	1.56	1.51
6	c	101	LYC	C6-C7	2.26	1.56	1.51
6	M	101	LYC	C6-C7	2.26	1.56	1.51
6	A	103	LYC	C6-C7	2.26	1.56	1.51
6	Q	103	LYC	C6-C7	2.25	1.56	1.51
6	e	101	LYC	C6-C7	2.25	1.56	1.51
5	M	102	BCL	C4B-CHC	-2.24	1.39	1.43
6	S	101	LYC	C6-C7	2.22	1.55	1.51
6	D	101	LYC	C6-C7	2.22	1.55	1.51
6	K	101	LYC	C6-C7	2.22	1.55	1.51
6	W	101	LYC	C6-C7	2.22	1.55	1.51
6	U	101	LYC	C6-C7	2.21	1.55	1.51
6	a	101	LYC	C6-C7	2.21	1.55	1.51
6	C	102	LYC	C6-C7	2.21	1.55	1.51
6	O	101	LYC	C6-C7	2.20	1.55	1.51
5	S	102	BCL	C4B-CHC	-2.19	1.39	1.43
5	A	101	BCL	C4B-CHC	-2.19	1.39	1.43
5	Y	101	BCL	C4B-CHC	-2.18	1.39	1.43
5	e	102	BCL	C4B-CHC	-2.18	1.39	1.43
5	Q	101	BCL	C4B-CHC	-2.17	1.39	1.43
5	I	101	BCL	C4B-CHC	-2.17	1.39	1.43
5	D	102	BCL	C4B-CHC	-2.17	1.39	1.43
5	C	101	BCL	C4B-CHC	-2.16	1.39	1.43
5	O	102	BCL	C4B-CHC	-2.16	1.39	1.43
5	W	102	BCL	C4B-CHC	-2.15	1.39	1.43
5	a	102	BCL	C4B-CHC	-2.14	1.39	1.43
5	c	102	BCL	C4B-CHC	-2.12	1.39	1.43
5	K	102	BCL	C4B-CHC	-2.11	1.39	1.43
5	U	102	BCL	C4B-CHC	-2.11	1.39	1.43
5	G	102	BCL	C4B-CHC	-2.10	1.39	1.43

All (486) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	H	101	BCL	C4A-NA-C1A	9.14	110.81	106.71
5	R	101	BCL	C4A-NA-C1A	9.07	110.78	106.71
5	B	101	BCL	C4A-NA-C1A	9.05	110.78	106.71
5	b	101	BCL	C4A-NA-C1A	9.04	110.77	106.71
5	T	101	BCL	C4A-NA-C1A	9.01	110.76	106.71
5	Z	101	BCL	C4A-NA-C1A	9.00	110.75	106.71
5	V	101	BCL	C4A-NA-C1A	8.99	110.75	106.71
5	X	101	BCL	C4A-NA-C1A	8.94	110.72	106.71
5	J	101	BCL	C4A-NA-C1A	8.92	110.72	106.71
5	F	101	BCL	C4A-NA-C1A	8.91	110.71	106.71
5	L	101	BCL	C4A-NA-C1A	8.90	110.71	106.71
5	P	101	BCL	C4A-NA-C1A	8.90	110.71	106.71
5	d	101	BCL	C4A-NA-C1A	8.89	110.70	106.71
5	E	101	BCL	C4A-NA-C1A	8.85	110.69	106.71
5	N	101	BCL	C4A-NA-C1A	8.85	110.69	106.71
5	f	101	BCL	C4A-NA-C1A	8.82	110.67	106.71
5	A	101	BCL	C4A-NA-C1A	8.41	110.49	106.71
5	e	102	BCL	C4A-NA-C1A	8.40	110.48	106.71
5	a	102	BCL	C4A-NA-C1A	8.39	110.48	106.71
5	I	101	BCL	C4A-NA-C1A	8.38	110.47	106.71
5	S	102	BCL	C4A-NA-C1A	8.36	110.46	106.71
5	W	102	BCL	C4A-NA-C1A	8.33	110.45	106.71
5	K	102	BCL	C4A-NA-C1A	8.31	110.44	106.71
5	C	101	BCL	C4A-NA-C1A	8.31	110.44	106.71
5	Y	101	BCL	C4A-NA-C1A	8.30	110.44	106.71
5	U	102	BCL	C4A-NA-C1A	8.29	110.43	106.71
5	D	102	BCL	C4A-NA-C1A	8.25	110.42	106.71
5	G	102	BCL	C4A-NA-C1A	8.25	110.42	106.71
5	M	102	BCL	C4A-NA-C1A	8.23	110.41	106.71
5	O	102	BCL	C4A-NA-C1A	8.23	110.41	106.71
5	c	102	BCL	C4A-NA-C1A	8.23	110.41	106.71
5	Q	101	BCL	C4A-NA-C1A	8.21	110.40	106.71
5	f	101	BCL	C1C-NC-C4C	7.72	110.18	106.71
5	b	101	BCL	C1C-NC-C4C	7.63	110.14	106.71
5	I	101	BCL	C1C-NC-C4C	7.63	110.14	106.71
5	S	103	BCL	C4A-NA-C1A	7.62	110.13	106.71
5	X	101	BCL	C1C-NC-C4C	7.62	110.13	106.71
5	O	102	BCL	C1C-NC-C4C	7.60	110.12	106.71
5	e	102	BCL	C1C-NC-C4C	7.57	110.11	106.71
5	F	101	BCL	C1C-NC-C4C	7.54	110.09	106.71
5	E	101	BCL	C1C-NC-C4C	7.53	110.09	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	102	BCL	C4A-NA-C1A	7.53	110.09	106.71
5	D	102	BCL	C1C-NC-C4C	7.52	110.09	106.71
5	M	102	BCL	C1C-NC-C4C	7.50	110.08	106.71
5	G	102	BCL	C1C-NC-C4C	7.50	110.08	106.71
5	B	101	BCL	C1C-NC-C4C	7.49	110.07	106.71
5	O	103	BCL	C4A-NA-C1A	7.49	110.07	106.71
5	D	103	BCL	C4A-NA-C1A	7.48	110.07	106.71
5	G	103	BCL	C4A-NA-C1A	7.48	110.07	106.71
5	H	101	BCL	C1C-NC-C4C	7.48	110.07	106.71
5	R	101	BCL	C1C-NC-C4C	7.48	110.07	106.71
5	K	103	BCL	C4A-NA-C1A	7.48	110.07	106.71
5	c	103	BCL	C4A-NA-C1A	7.47	110.07	106.71
5	L	101	BCL	C1C-NC-C4C	7.47	110.06	106.71
5	P	101	BCL	C1C-NC-C4C	7.46	110.06	106.71
5	U	102	BCL	C1C-NC-C4C	7.45	110.06	106.71
5	V	101	BCL	C1C-NC-C4C	7.45	110.06	106.71
5	J	101	BCL	C1C-NC-C4C	7.44	110.05	106.71
5	N	101	BCL	C1C-NC-C4C	7.44	110.05	106.71
5	C	103	BCL	C4A-NA-C1A	7.42	110.04	106.71
5	A	101	BCL	C1C-NC-C4C	7.42	110.04	106.71
5	e	103	BCL	C4A-NA-C1A	7.41	110.04	106.71
5	W	103	BCL	C4A-NA-C1A	7.41	110.04	106.71
5	a	102	BCL	C1C-NC-C4C	7.40	110.03	106.71
5	Z	101	BCL	C1C-NC-C4C	7.40	110.03	106.71
5	Y	101	BCL	C1C-NC-C4C	7.40	110.03	106.71
5	U	103	BCL	C4A-NA-C1A	7.40	110.03	106.71
5	W	102	BCL	C1C-NC-C4C	7.38	110.03	106.71
5	c	102	BCL	C1C-NC-C4C	7.38	110.03	106.71
5	S	102	BCL	C1C-NC-C4C	7.38	110.02	106.71
5	T	101	BCL	C1C-NC-C4C	7.36	110.02	106.71
5	C	101	BCL	C1C-NC-C4C	7.34	110.01	106.71
5	M	103	BCL	C4A-NA-C1A	7.33	110.00	106.71
5	Q	102	BCL	C4A-NA-C1A	7.33	110.00	106.71
5	Y	102	BCL	C4A-NA-C1A	7.30	109.99	106.71
5	a	103	BCL	C4A-NA-C1A	7.29	109.98	106.71
5	d	101	BCL	C1C-NC-C4C	7.28	109.98	106.71
5	K	102	BCL	C1C-NC-C4C	7.27	109.97	106.71
5	I	102	BCL	C4A-NA-C1A	7.25	109.96	106.71
5	Q	101	BCL	C1C-NC-C4C	7.23	109.96	106.71
6	S	101	LYC	C5-C6-C7	7.01	136.05	112.98
5	C	103	BCL	C1C-NC-C4C	7.01	109.86	106.71
6	O	101	LYC	C5-C6-C7	7.01	136.03	112.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	c	101	LYC	C5-C6-C7	7.00	136.01	112.98
6	C	102	LYC	C5-C6-C7	7.00	136.01	112.98
6	A	103	LYC	C5-C6-C7	7.00	136.00	112.98
6	a	101	LYC	C5-C6-C7	6.99	135.99	112.98
6	W	101	LYC	C5-C6-C7	6.99	135.96	112.98
6	D	101	LYC	C5-C6-C7	6.99	135.95	112.98
6	I	103	LYC	C5-C6-C7	6.99	135.95	112.98
6	K	101	LYC	C5-C6-C7	6.98	135.95	112.98
6	Y	103	LYC	C5-C6-C7	6.98	135.94	112.98
6	U	101	LYC	C5-C6-C7	6.98	135.93	112.98
6	e	101	LYC	C5-C6-C7	6.98	135.93	112.98
6	Q	103	LYC	C5-C6-C7	6.98	135.92	112.98
6	G	101	LYC	C5-C6-C7	6.97	135.90	112.98
6	M	101	LYC	C5-C6-C7	6.96	135.88	112.98
5	U	103	BCL	C1C-NC-C4C	6.96	109.84	106.71
5	A	102	BCL	C1C-NC-C4C	6.95	109.83	106.71
5	Q	102	BCL	C1C-NC-C4C	6.92	109.82	106.71
5	S	103	BCL	C1C-NC-C4C	6.91	109.81	106.71
5	G	103	BCL	C1C-NC-C4C	6.90	109.81	106.71
5	W	103	BCL	C1C-NC-C4C	6.89	109.80	106.71
5	O	103	BCL	C1C-NC-C4C	6.88	109.80	106.71
5	a	103	BCL	C1C-NC-C4C	6.84	109.78	106.71
5	Y	102	BCL	C1C-NC-C4C	6.83	109.78	106.71
5	c	103	BCL	C1C-NC-C4C	6.82	109.77	106.71
5	K	103	BCL	C1C-NC-C4C	6.81	109.77	106.71
5	M	103	BCL	C1C-NC-C4C	6.78	109.75	106.71
5	D	103	BCL	C1C-NC-C4C	6.75	109.74	106.71
5	e	103	BCL	C1C-NC-C4C	6.72	109.72	106.71
5	I	102	BCL	C1C-NC-C4C	6.70	109.72	106.71
6	e	101	LYC	C8-C7-C6	5.80	125.02	115.27
6	D	101	LYC	C8-C7-C6	5.80	125.02	115.27
6	K	101	LYC	C8-C7-C6	5.79	125.01	115.27
6	U	101	LYC	C8-C7-C6	5.78	125.00	115.27
6	M	101	LYC	C8-C7-C6	5.78	124.99	115.27
6	Q	103	LYC	C8-C7-C6	5.78	124.99	115.27
6	C	102	LYC	C8-C7-C6	5.77	124.98	115.27
6	O	101	LYC	C8-C7-C6	5.77	124.97	115.27
6	a	101	LYC	C8-C7-C6	5.75	124.94	115.27
6	c	101	LYC	C8-C7-C6	5.75	124.94	115.27
6	Y	103	LYC	C8-C7-C6	5.74	124.93	115.27
6	G	101	LYC	C8-C7-C6	5.74	124.93	115.27
6	W	101	LYC	C8-C7-C6	5.74	124.93	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	I	103	LYC	C8-C7-C6	5.74	124.93	115.27
6	A	103	LYC	C8-C7-C6	5.74	124.93	115.27
6	S	101	LYC	C8-C7-C6	5.73	124.91	115.27
5	e	103	BCL	CAD-C3D-C2D	5.61	146.33	132.79
5	D	103	BCL	CAD-C3D-C2D	5.61	146.32	132.79
5	O	103	BCL	CAD-C3D-C2D	5.61	146.31	132.79
5	D	102	BCL	CAD-C3D-C2D	5.60	146.31	132.79
5	A	102	BCL	CAD-C3D-C2D	5.60	146.30	132.79
5	O	102	BCL	CAD-C3D-C2D	5.59	146.28	132.79
5	K	103	BCL	CAD-C3D-C2D	5.59	146.27	132.79
5	a	103	BCL	CAD-C3D-C2D	5.58	146.26	132.79
5	G	103	BCL	CAD-C3D-C2D	5.58	146.26	132.79
5	W	103	BCL	CAD-C3D-C2D	5.58	146.25	132.79
5	U	103	BCL	CAD-C3D-C2D	5.58	146.25	132.79
5	M	103	BCL	CAD-C3D-C2D	5.57	146.24	132.79
5	a	102	BCL	CAD-C3D-C2D	5.57	146.23	132.79
5	C	103	BCL	CAD-C3D-C2D	5.57	146.23	132.79
5	W	102	BCL	CAD-C3D-C2D	5.57	146.23	132.79
5	G	102	BCL	CAD-C3D-C2D	5.57	146.22	132.79
5	c	103	BCL	CAD-C3D-C2D	5.57	146.22	132.79
5	C	101	BCL	CAD-C3D-C2D	5.56	146.21	132.79
5	S	102	BCL	CAD-C3D-C2D	5.56	146.20	132.79
5	Y	102	BCL	CAD-C3D-C2D	5.56	146.19	132.79
5	S	103	BCL	CAD-C3D-C2D	5.55	146.19	132.79
5	Y	101	BCL	CAD-C3D-C2D	5.55	146.19	132.79
5	K	102	BCL	CAD-C3D-C2D	5.55	146.18	132.79
5	I	102	BCL	CAD-C3D-C2D	5.55	146.17	132.79
5	I	101	BCL	CAD-C3D-C2D	5.55	146.17	132.79
5	Q	102	BCL	CAD-C3D-C2D	5.54	146.16	132.79
5	e	102	BCL	CAD-C3D-C2D	5.54	146.15	132.79
5	A	101	BCL	CAD-C3D-C2D	5.54	146.15	132.79
5	c	102	BCL	CAD-C3D-C2D	5.54	146.15	132.79
5	U	102	BCL	CAD-C3D-C2D	5.54	146.14	132.79
5	M	102	BCL	CAD-C3D-C2D	5.54	146.14	132.79
5	Q	101	BCL	CAD-C3D-C2D	5.52	146.11	132.79
5	H	101	BCL	CAD-C3D-C2D	5.49	146.04	132.79
5	N	101	BCL	CAD-C3D-C2D	5.48	146.02	132.79
5	Z	101	BCL	CAD-C3D-C2D	5.47	145.98	132.79
5	V	101	BCL	CAD-C3D-C2D	5.47	145.98	132.79
5	B	101	BCL	CAD-C3D-C2D	5.46	145.97	132.79
5	L	101	BCL	CAD-C3D-C2D	5.46	145.97	132.79
5	d	101	BCL	CAD-C3D-C2D	5.45	145.95	132.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	X	101	BCL	CAD-C3D-C2D	5.45	145.94	132.79
5	E	101	BCL	CAD-C3D-C2D	5.45	145.94	132.79
5	T	101	BCL	CAD-C3D-C2D	5.45	145.93	132.79
5	J	101	BCL	CAD-C3D-C2D	5.45	145.93	132.79
5	R	101	BCL	CAD-C3D-C2D	5.44	145.92	132.79
5	b	101	BCL	CAD-C3D-C2D	5.44	145.92	132.79
5	P	101	BCL	CAD-C3D-C2D	5.44	145.90	132.79
5	f	101	BCL	CAD-C3D-C2D	5.43	145.88	132.79
5	F	101	BCL	CAD-C3D-C2D	5.42	145.87	132.79
5	D	103	BCL	CBD-CAD-C3D	4.97	107.90	104.34
5	a	103	BCL	CBD-CAD-C3D	4.96	107.90	104.34
5	O	103	BCL	CBD-CAD-C3D	4.96	107.89	104.34
5	A	102	BCL	CBD-CAD-C3D	4.94	107.88	104.34
5	U	103	BCL	CBD-CAD-C3D	4.94	107.88	104.34
5	W	103	BCL	CBD-CAD-C3D	4.94	107.88	104.34
5	G	103	BCL	CBD-CAD-C3D	4.91	107.86	104.34
5	K	103	BCL	CBD-CAD-C3D	4.91	107.86	104.34
5	Y	102	BCL	CBD-CAD-C3D	4.90	107.85	104.34
5	H	101	BCL	CBD-CAD-C3D	4.90	107.85	104.34
5	e	103	BCL	CBD-CAD-C3D	4.89	107.84	104.34
5	Q	102	BCL	CBD-CAD-C3D	4.88	107.84	104.34
5	c	103	BCL	CBD-CAD-C3D	4.88	107.84	104.34
5	S	103	BCL	CBD-CAD-C3D	4.87	107.83	104.34
5	X	101	BCL	CBD-CAD-C3D	4.86	107.83	104.34
5	C	103	BCL	CBD-CAD-C3D	4.86	107.82	104.34
5	M	103	BCL	CBD-CAD-C3D	4.86	107.82	104.34
5	b	101	BCL	CBD-CAD-C3D	4.85	107.81	104.34
5	T	101	BCL	CBD-CAD-C3D	4.84	107.81	104.34
5	P	101	BCL	CBD-CAD-C3D	4.83	107.80	104.34
5	L	101	BCL	CBD-CAD-C3D	4.82	107.79	104.34
5	V	101	BCL	CBD-CAD-C3D	4.81	107.79	104.34
5	Z	101	BCL	CBD-CAD-C3D	4.81	107.78	104.34
5	d	101	BCL	CBD-CAD-C3D	4.79	107.78	104.34
5	N	101	BCL	CBD-CAD-C3D	4.79	107.77	104.34
5	I	102	BCL	CBD-CAD-C3D	4.78	107.77	104.34
5	R	101	BCL	CBD-CAD-C3D	4.76	107.75	104.34
5	f	101	BCL	CBD-CAD-C3D	4.76	107.75	104.34
5	E	101	BCL	CBD-CAD-C3D	4.74	107.74	104.34
5	F	101	BCL	CBD-CAD-C3D	4.72	107.72	104.34
5	B	101	BCL	CBD-CAD-C3D	4.72	107.72	104.34
5	J	101	BCL	CBD-CAD-C3D	4.71	107.72	104.34
5	O	102	BCL	CBD-CAD-C3D	4.51	107.57	104.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	101	BCL	CBD-CAD-C3D	4.43	107.51	104.34
5	C	101	BCL	CBD-CAD-C3D	4.41	107.50	104.34
5	I	101	BCL	CBD-CAD-C3D	4.40	107.49	104.34
5	D	102	BCL	CBD-CAD-C3D	4.39	107.48	104.34
5	U	102	BCL	CBD-CAD-C3D	4.37	107.47	104.34
5	W	102	BCL	CBD-CAD-C3D	4.35	107.46	104.34
5	S	102	BCL	CBD-CAD-C3D	4.34	107.45	104.34
5	G	102	BCL	CBD-CAD-C3D	4.34	107.45	104.34
5	a	102	BCL	CBD-CAD-C3D	4.34	107.45	104.34
5	K	102	BCL	CBD-CAD-C3D	4.34	107.45	104.34
5	A	101	BCL	CBD-CAD-C3D	4.33	107.45	104.34
5	c	102	BCL	CBD-CAD-C3D	4.33	107.44	104.34
5	e	102	BCL	CBD-CAD-C3D	4.33	107.44	104.34
5	Q	101	BCL	CBD-CAD-C3D	4.24	107.38	104.34
5	M	102	BCL	CBD-CAD-C3D	4.21	107.36	104.34
6	U	101	LYC	C52-C51-C53	-3.29	112.90	118.08
6	W	101	LYC	C52-C51-C53	-3.28	112.91	118.08
6	D	101	LYC	C52-C51-C53	-3.27	112.92	118.08
6	A	103	LYC	C52-C51-C53	-3.26	112.94	118.08
6	I	103	LYC	C52-C51-C53	-3.26	112.94	118.08
6	C	102	LYC	C52-C51-C53	-3.26	112.95	118.08
6	S	101	LYC	C52-C51-C53	-3.25	112.95	118.08
6	a	101	LYC	C52-C51-C53	-3.25	112.96	118.08
6	c	101	LYC	C52-C51-C53	-3.24	112.97	118.08
6	K	101	LYC	C52-C51-C53	-3.24	112.97	118.08
6	M	101	LYC	C52-C51-C53	-3.24	112.97	118.08
6	e	101	LYC	C6-C7-C9	-3.24	112.17	121.98
6	Q	103	LYC	C52-C51-C53	-3.24	112.98	118.08
6	O	101	LYC	C52-C51-C53	-3.23	112.98	118.08
6	Y	103	LYC	C52-C51-C53	-3.23	112.98	118.08
6	G	101	LYC	C52-C51-C53	-3.22	113.00	118.08
6	e	101	LYC	C52-C51-C53	-3.22	113.00	118.08
6	U	101	LYC	C6-C7-C9	-3.22	112.22	121.98
6	c	101	LYC	C6-C7-C9	-3.22	112.23	121.98
6	Y	103	LYC	C6-C7-C9	-3.22	112.24	121.98
6	Q	103	LYC	C6-C7-C9	-3.22	112.25	121.98
6	D	101	LYC	C6-C7-C9	-3.21	112.25	121.98
6	M	101	LYC	C6-C7-C9	-3.21	112.25	121.98
6	S	101	LYC	C6-C7-C9	-3.21	112.26	121.98
6	G	101	LYC	C6-C7-C9	-3.21	112.26	121.98
6	a	101	LYC	C6-C7-C9	-3.21	112.27	121.98
6	A	103	LYC	C6-C7-C9	-3.20	112.29	121.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	I	103	LYC	C6-C7-C9	-3.20	112.29	121.98
6	O	101	LYC	C6-C7-C9	-3.20	112.29	121.98
6	K	101	LYC	C6-C7-C9	-3.20	112.29	121.98
6	C	102	LYC	C6-C7-C9	-3.20	112.30	121.98
6	W	101	LYC	C6-C7-C9	-3.19	112.32	121.98
6	e	101	LYC	C13-C12-C11	-3.09	113.20	118.08
6	A	103	LYC	C13-C12-C11	-3.09	113.21	118.08
6	O	101	LYC	C13-C12-C11	-3.08	113.22	118.08
6	D	101	LYC	C13-C12-C11	-3.07	113.24	118.08
6	Q	103	LYC	C13-C12-C11	-3.06	113.26	118.08
6	a	101	LYC	C13-C12-C11	-3.06	113.26	118.08
6	U	101	LYC	C13-C12-C11	-3.05	113.27	118.08
6	G	101	LYC	C13-C12-C11	-3.05	113.27	118.08
6	C	102	LYC	C13-C12-C11	-3.04	113.28	118.08
6	W	101	LYC	C13-C12-C11	-3.04	113.29	118.08
6	M	101	LYC	C13-C12-C11	-3.04	113.29	118.08
6	Y	103	LYC	C13-C12-C11	-3.04	113.29	118.08
6	c	101	LYC	C13-C12-C11	-3.03	113.30	118.08
6	I	103	LYC	C13-C12-C11	-3.02	113.31	118.08
6	S	101	LYC	C13-C12-C11	-3.02	113.33	118.08
6	K	101	LYC	C13-C12-C11	-2.98	113.38	118.08
6	G	101	LYC	C6-C5-C4	2.91	121.46	111.88
6	a	101	LYC	C6-C5-C4	2.90	121.42	111.88
6	O	101	LYC	C6-C5-C4	2.90	121.42	111.88
6	D	101	LYC	C6-C5-C4	2.90	121.42	111.88
6	Q	103	LYC	C6-C5-C4	2.90	121.41	111.88
6	e	101	LYC	C6-C5-C4	2.90	121.41	111.88
6	K	101	LYC	C6-C5-C4	2.90	121.41	111.88
6	S	101	LYC	C6-C5-C4	2.90	121.41	111.88
6	M	101	LYC	C6-C5-C4	2.89	121.39	111.88
6	U	101	LYC	C6-C5-C4	2.89	121.38	111.88
6	C	102	LYC	C6-C5-C4	2.89	121.37	111.88
6	W	101	LYC	C6-C5-C4	2.89	121.37	111.88
6	I	103	LYC	C6-C5-C4	2.89	121.36	111.88
6	A	103	LYC	C6-C5-C4	2.88	121.36	111.88
6	Y	103	LYC	C6-C5-C4	2.87	121.31	111.88
6	c	101	LYC	C6-C5-C4	2.87	121.31	111.88
5	P	101	BCL	C2A-C1A-CHA	2.69	126.89	122.71
5	d	101	BCL	C2A-C1A-CHA	2.69	126.88	122.71
5	E	101	BCL	C2A-C1A-CHA	2.68	126.87	122.71
5	b	101	BCL	C2A-C1A-CHA	2.65	126.83	122.71
5	H	101	BCL	C2A-C1A-CHA	2.63	126.79	122.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	K	103	BCL	C2A-C1A-CHA	2.63	126.79	122.71
5	N	101	BCL	C2A-C1A-CHA	2.63	126.79	122.71
5	F	101	BCL	C2A-C1A-CHA	2.63	126.78	122.71
5	L	101	BCL	C2A-C1A-CHA	2.63	126.78	122.71
5	T	101	BCL	C2A-C1A-CHA	2.62	126.78	122.71
5	J	101	BCL	C2A-C1A-CHA	2.62	126.77	122.71
5	D	103	BCL	C2A-C1A-CHA	2.62	126.77	122.71
5	Z	101	BCL	C2A-C1A-CHA	2.62	126.77	122.71
5	f	101	BCL	C2A-C1A-CHA	2.61	126.75	122.71
5	B	101	BCL	C2A-C1A-CHA	2.60	126.75	122.71
5	a	103	BCL	C2A-C1A-CHA	2.60	126.75	122.71
5	S	103	BCL	C2A-C1A-CHA	2.60	126.74	122.71
5	Q	102	BCL	C2A-C1A-CHA	2.59	126.73	122.71
5	V	101	BCL	C2A-C1A-CHA	2.59	126.73	122.71
5	R	101	BCL	C2A-C1A-CHA	2.59	126.73	122.71
5	X	101	BCL	C2A-C1A-CHA	2.59	126.72	122.71
5	A	102	BCL	C2A-C1A-CHA	2.58	126.71	122.71
5	C	103	BCL	C2A-C1A-CHA	2.58	126.71	122.71
5	G	103	BCL	C2A-C1A-CHA	2.58	126.70	122.71
5	W	103	BCL	C2A-C1A-CHA	2.57	126.70	122.71
6	D	101	LYC	C21-C20-C19	-2.57	118.21	123.47
5	I	102	BCL	C2A-C1A-CHA	2.57	126.70	122.71
6	c	101	LYC	C13-C12-C14	2.57	126.52	122.92
5	Y	102	BCL	C2A-C1A-CHA	2.57	126.69	122.71
6	e	101	LYC	C13-C12-C14	2.57	126.52	122.92
6	M	101	LYC	C21-C20-C19	-2.56	118.23	123.47
6	A	103	LYC	C13-C12-C14	2.56	126.51	122.92
6	Y	103	LYC	C21-C20-C19	-2.56	118.24	123.47
6	U	101	LYC	C13-C12-C14	2.56	126.50	122.92
6	A	103	LYC	C21-C20-C19	-2.55	118.25	123.47
6	S	101	LYC	C21-C20-C19	-2.55	118.25	123.47
6	D	101	LYC	C13-C12-C14	2.55	126.49	122.92
6	Y	103	LYC	C13-C12-C14	2.55	126.49	122.92
5	M	103	BCL	C2A-C1A-CHA	2.54	126.65	122.71
6	a	101	LYC	C21-C20-C19	-2.54	118.27	123.47
5	c	103	BCL	C2A-C1A-CHA	2.54	126.64	122.71
6	e	101	LYC	C21-C20-C19	-2.53	118.28	123.47
6	C	102	LYC	C13-C12-C14	2.53	126.47	122.92
6	Q	103	LYC	C13-C12-C14	2.53	126.47	122.92
6	C	102	LYC	C21-C20-C19	-2.53	118.29	123.47
5	U	103	BCL	C2A-C1A-CHA	2.52	126.62	122.71
6	c	101	LYC	C21-C20-C19	-2.52	118.31	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Q	103	LYC	C21-C20-C19	-2.52	118.31	123.47
6	W	101	LYC	C21-C20-C19	-2.52	118.31	123.47
6	I	103	LYC	C21-C20-C19	-2.52	118.32	123.47
6	a	101	LYC	C13-C12-C14	2.52	126.45	122.92
6	G	101	LYC	C21-C20-C19	-2.52	118.32	123.47
6	O	101	LYC	C21-C20-C19	-2.52	118.32	123.47
5	e	103	BCL	C2A-C1A-CHA	2.51	126.61	122.71
6	G	101	LYC	C13-C12-C14	2.51	126.44	122.92
5	O	103	BCL	C2A-C1A-CHA	2.51	126.60	122.71
6	U	101	LYC	C21-C20-C19	-2.51	118.34	123.47
6	I	103	LYC	C13-C12-C14	2.51	126.43	122.92
6	O	101	LYC	C13-C12-C14	2.50	126.43	122.92
6	K	101	LYC	C21-C20-C19	-2.50	118.35	123.47
5	C	101	BCL	C2A-C1A-CHA	2.49	126.58	122.71
6	S	101	LYC	C13-C12-C14	2.49	126.42	122.92
6	W	101	LYC	C13-C12-C14	2.48	126.40	122.92
5	a	102	BCL	C2A-C1A-CHA	2.47	126.55	122.71
6	M	101	LYC	C13-C12-C14	2.46	126.37	122.92
5	W	102	BCL	C2A-C1A-CHA	2.46	126.53	122.71
6	K	101	LYC	C13-C12-C14	2.46	126.37	122.92
5	K	102	BCL	C2A-C1A-CHA	2.46	126.52	122.71
5	Y	101	BCL	C2A-C1A-CHA	2.45	126.52	122.71
5	U	102	BCL	C2A-C1A-CHA	2.45	126.51	122.71
5	c	102	BCL	C2A-C1A-CHA	2.45	126.51	122.71
5	G	102	BCL	C2A-C1A-CHA	2.44	126.50	122.71
5	S	102	BCL	C2A-C1A-CHA	2.44	126.49	122.71
5	e	102	BCL	C2A-C1A-CHA	2.44	126.49	122.71
6	U	101	LYC	C3-C2-C4	2.43	129.67	122.65
5	Q	101	BCL	C2A-C1A-CHA	2.43	126.47	122.71
5	I	101	BCL	C2A-C1A-CHA	2.42	126.47	122.71
5	A	101	BCL	C2A-C1A-CHA	2.42	126.46	122.71
5	M	102	BCL	C2A-C1A-CHA	2.42	126.46	122.71
6	c	101	LYC	C3-C2-C4	2.41	129.62	122.65
6	O	101	LYC	C3-C2-C4	2.41	129.62	122.65
6	D	101	LYC	C3-C2-C4	2.40	129.60	122.65
6	W	101	LYC	C3-C2-C4	2.40	129.59	122.65
6	G	101	LYC	C3-C2-C4	2.40	129.57	122.65
6	Y	103	LYC	C3-C2-C4	2.40	129.57	122.65
6	a	101	LYC	C3-C2-C4	2.39	129.56	122.65
5	D	102	BCL	C2A-C1A-CHA	2.39	126.42	122.71
6	Q	103	LYC	C3-C2-C4	2.39	129.55	122.65
5	O	102	BCL	C2A-C1A-CHA	2.39	126.41	122.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	K	101	LYC	C3-C2-C4	2.38	129.53	122.65
6	M	101	LYC	C3-C2-C4	2.38	129.52	122.65
6	I	103	LYC	C3-C2-C4	2.38	129.52	122.65
6	e	101	LYC	C3-C2-C4	2.38	129.52	122.65
6	A	103	LYC	C3-C2-C4	2.38	129.51	122.65
6	S	101	LYC	C3-C2-C4	2.37	129.51	122.65
6	C	102	LYC	C3-C2-C4	2.36	129.48	122.65
5	O	102	BCL	CAD-C3D-C4D	-2.34	106.22	109.22
5	U	102	BCL	CAD-C3D-C4D	-2.33	106.23	109.22
5	a	102	BCL	CAD-C3D-C4D	-2.32	106.25	109.22
5	D	102	BCL	CAD-C3D-C4D	-2.31	106.26	109.22
5	C	101	BCL	CAD-C3D-C4D	-2.31	106.26	109.22
5	I	101	BCL	CAD-C3D-C4D	-2.31	106.26	109.22
5	A	101	BCL	CAD-C3D-C4D	-2.30	106.27	109.22
5	S	102	BCL	CAD-C3D-C4D	-2.29	106.28	109.22
5	Y	101	BCL	CAD-C3D-C4D	-2.29	106.29	109.22
5	K	102	BCL	CAD-C3D-C4D	-2.28	106.29	109.22
5	e	102	BCL	CAD-C3D-C4D	-2.28	106.30	109.22
5	G	102	BCL	CAD-C3D-C4D	-2.27	106.31	109.22
5	W	102	BCL	CAD-C3D-C4D	-2.27	106.31	109.22
5	Q	101	BCL	CAD-C3D-C4D	-2.26	106.32	109.22
5	W	102	BCL	C3B-C2B-C1B	2.26	108.22	106.29
5	C	101	BCL	C3B-C2B-C1B	2.25	108.21	106.29
5	c	102	BCL	CAD-C3D-C4D	-2.25	106.34	109.22
6	D	101	LYC	C57-C56-C55	2.25	126.07	122.92
6	G	101	LYC	C57-C56-C55	2.25	126.07	122.92
6	I	103	LYC	C57-C56-C55	2.24	126.07	122.92
5	M	102	BCL	CAD-C3D-C4D	-2.24	106.35	109.22
6	C	102	LYC	C57-C56-C55	2.23	126.05	122.92
6	Y	103	LYC	C57-C56-C55	2.23	126.05	122.92
6	I	103	LYC	C57-C56-C58	-2.23	114.56	118.08
6	S	101	LYC	C57-C56-C55	2.23	126.05	122.92
6	K	101	LYC	C57-C56-C58	-2.23	114.56	118.08
6	e	101	LYC	C57-C56-C55	2.22	126.04	122.92
6	c	101	LYC	C57-C56-C58	-2.22	114.58	118.08
6	W	101	LYC	C57-C56-C58	-2.22	114.58	118.08
6	W	101	LYC	C57-C56-C55	2.22	126.03	122.92
5	K	102	BCL	C3B-C2B-C1B	2.22	108.19	106.29
6	U	101	LYC	C57-C56-C58	-2.22	114.58	118.08
6	c	101	LYC	C57-C56-C55	2.21	126.02	122.92
6	O	101	LYC	C57-C56-C55	2.21	126.02	122.92
6	K	101	LYC	C57-C56-C55	2.21	126.02	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	e	102	BCL	C3B-C2B-C1B	2.21	108.17	106.29
6	M	101	LYC	C57-C56-C55	2.20	126.01	122.92
6	e	101	LYC	C57-C56-C58	-2.20	114.61	118.08
6	G	101	LYC	C57-C56-C58	-2.20	114.61	118.08
6	C	102	LYC	C57-C56-C58	-2.19	114.62	118.08
5	Y	101	BCL	C3B-C2B-C1B	2.19	108.17	106.29
5	a	102	BCL	C2B-C1B-NB	-2.19	108.18	110.11
6	Y	103	LYC	C57-C56-C58	-2.19	114.63	118.08
6	O	101	LYC	C57-C56-C58	-2.19	114.63	118.08
6	D	101	LYC	C57-C56-C58	-2.19	114.63	118.08
6	S	101	LYC	C57-C56-C58	-2.19	114.63	118.08
6	Q	103	LYC	C57-C56-C58	-2.18	114.64	118.08
6	U	101	LYC	C57-C56-C55	2.18	125.98	122.92
6	a	101	LYC	C57-C56-C58	-2.18	114.65	118.08
5	C	101	BCL	C2B-C1B-NB	-2.18	108.20	110.11
6	M	101	LYC	C57-C56-C58	-2.18	114.65	118.08
5	G	102	BCL	C2B-C1B-NB	-2.17	108.20	110.11
5	a	102	BCL	C3B-C2B-C1B	2.17	108.15	106.29
5	Y	101	BCL	C2B-C1B-NB	-2.17	108.21	110.11
6	A	103	LYC	C57-C56-C55	2.16	125.95	122.92
6	a	101	LYC	C57-C56-C55	2.16	125.94	122.92
5	D	102	BCL	C3B-C2B-C1B	2.15	108.13	106.29
5	G	102	BCL	C3B-C2B-C1B	2.15	108.13	106.29
5	W	102	BCL	C2B-C1B-NB	-2.15	108.22	110.11
6	A	103	LYC	C57-C56-C58	-2.14	114.70	118.08
5	K	102	BCL	C2B-C1B-NB	-2.14	108.23	110.11
5	M	102	BCL	C3B-C2B-C1B	2.14	108.12	106.29
5	O	102	BCL	C2B-C1B-NB	-2.13	108.24	110.11
5	U	102	BCL	C2B-C1B-NB	-2.13	108.24	110.11
6	Q	103	LYC	C57-C56-C55	2.12	125.90	122.92
5	e	102	BCL	C2B-C1B-NB	-2.12	108.24	110.11
5	O	102	BCL	C3B-C2B-C1B	2.12	108.10	106.29
5	U	102	BCL	C3B-C2B-C1B	2.11	108.09	106.29
5	A	101	BCL	C2B-C1B-NB	-2.11	108.26	110.11
5	b	101	BCL	C3C-C4C-CHD	2.10	126.21	122.63
5	A	101	BCL	C3B-C2B-C1B	2.09	108.08	106.29
5	P	101	BCL	C3C-C4C-CHD	2.09	126.20	122.63
5	I	101	BCL	C3B-C2B-C1B	2.09	108.08	106.29
5	I	101	BCL	C2B-C1B-NB	-2.09	108.28	110.11
5	V	101	BCL	C3C-C4C-CHD	2.08	126.18	122.63
5	S	102	BCL	C2B-C1B-NB	-2.07	108.29	110.11
5	c	102	BCL	C3B-C2B-C1B	2.07	108.06	106.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Q	101	BCL	C2B-C1B-NB	-2.07	108.29	110.11
5	N	101	BCL	C3C-C4C-CHD	2.06	126.15	122.63
5	H	101	BCL	C3C-C4C-CHD	2.06	126.15	122.63
5	S	102	BCL	C3B-C2B-C1B	2.05	108.05	106.29
5	d	101	BCL	C3C-C4C-CHD	2.05	126.13	122.63
5	M	102	BCL	C2B-C1B-NB	-2.05	108.31	110.11
5	Q	101	BCL	C3B-C2B-C1B	2.04	108.04	106.29
5	X	101	BCL	C3C-C4C-CHD	2.04	126.12	122.63
6	W	101	LYC	C52-C51-C50	2.04	125.78	122.92
5	f	101	BCL	C3C-C4C-CHD	2.04	126.12	122.63
5	L	101	BCL	C3C-C4C-CHD	2.04	126.11	122.63
5	T	101	BCL	C3C-C4C-CHD	2.04	126.11	122.63
5	J	101	BCL	C3C-C4C-CHD	2.03	126.10	122.63
5	E	101	BCL	C3C-C4C-CHD	2.03	126.10	122.63
5	B	101	BCL	C3C-C4C-CHD	2.03	126.10	122.63
5	D	102	BCL	C2B-C1B-NB	-2.03	108.33	110.11
6	D	101	LYC	C52-C51-C50	2.03	125.76	122.92
5	R	101	BCL	C3C-C4C-CHD	2.03	126.09	122.63
6	U	101	LYC	C1-C2-C4	-2.02	116.81	122.65
5	c	102	BCL	C2B-C1B-NB	-2.02	108.34	110.11
6	K	101	LYC	C16-C17-C19	-2.01	115.86	118.94
6	Y	103	LYC	C16-C17-C19	-2.01	115.86	118.94
6	I	103	LYC	C16-C17-C19	-2.00	115.87	118.94
5	Z	101	BCL	C3C-C4C-CHD	2.00	126.05	122.63
6	c	101	LYC	C1-C2-C4	-2.00	116.87	122.65

There are no chirality outliers.

All (112) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	103	LYC	C1-C2-C4-C5
6	A	103	LYC	C57-C56-C58-C59
6	C	102	LYC	C1-C2-C4-C5
6	C	102	LYC	C57-C56-C58-C59
6	D	101	LYC	C1-C2-C4-C5
6	D	101	LYC	C57-C56-C58-C59
6	G	101	LYC	C1-C2-C4-C5
6	G	101	LYC	C57-C56-C58-C59
6	I	103	LYC	C1-C2-C4-C5
6	I	103	LYC	C57-C56-C58-C59
6	K	101	LYC	C1-C2-C4-C5
6	K	101	LYC	C57-C56-C58-C59

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Mol	Chain	Res	Type	Atoms
6	M	101	LYC	C1-C2-C4-C5
6	M	101	LYC	C57-C56-C58-C59
6	O	101	LYC	C1-C2-C4-C5
6	O	101	LYC	C57-C56-C58-C59
6	Q	103	LYC	C1-C2-C4-C5
6	Q	103	LYC	C57-C56-C58-C59
6	S	101	LYC	C1-C2-C4-C5
6	S	101	LYC	C57-C56-C58-C59
6	U	101	LYC	C1-C2-C4-C5
6	U	101	LYC	C57-C56-C58-C59
6	W	101	LYC	C1-C2-C4-C5
6	W	101	LYC	C57-C56-C58-C59
6	Y	103	LYC	C1-C2-C4-C5
6	Y	103	LYC	C57-C56-C58-C59
6	a	101	LYC	C1-C2-C4-C5
6	a	101	LYC	C57-C56-C58-C59
6	c	101	LYC	C1-C2-C4-C5
6	c	101	LYC	C57-C56-C58-C59
6	e	101	LYC	C1-C2-C4-C5
6	e	101	LYC	C57-C56-C58-C59
6	A	103	LYC	C5-C6-C7-C9
6	C	102	LYC	C5-C6-C7-C9
6	D	101	LYC	C5-C6-C7-C9
6	G	101	LYC	C5-C6-C7-C9
6	I	103	LYC	C5-C6-C7-C9
6	K	101	LYC	C5-C6-C7-C9
6	M	101	LYC	C5-C6-C7-C9
6	O	101	LYC	C5-C6-C7-C9
6	Q	103	LYC	C5-C6-C7-C9
6	S	101	LYC	C5-C6-C7-C9
6	U	101	LYC	C5-C6-C7-C9
6	W	101	LYC	C5-C6-C7-C9
6	Y	103	LYC	C5-C6-C7-C9
6	a	101	LYC	C5-C6-C7-C9
6	c	101	LYC	C5-C6-C7-C9
6	e	101	LYC	C5-C6-C7-C9
6	A	103	LYC	C5-C6-C7-C8
6	C	102	LYC	C5-C6-C7-C8
6	D	101	LYC	C5-C6-C7-C8
6	G	101	LYC	C5-C6-C7-C8
6	I	103	LYC	C5-C6-C7-C8
6	K	101	LYC	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
6	M	101	LYC	C5-C6-C7-C8
6	O	101	LYC	C5-C6-C7-C8
6	Q	103	LYC	C5-C6-C7-C8
6	S	101	LYC	C5-C6-C7-C8
6	U	101	LYC	C5-C6-C7-C8
6	W	101	LYC	C5-C6-C7-C8
6	Y	103	LYC	C5-C6-C7-C8
6	a	101	LYC	C5-C6-C7-C8
6	c	101	LYC	C5-C6-C7-C8
6	e	101	LYC	C5-C6-C7-C8
6	A	103	LYC	C3-C2-C4-C5
6	C	102	LYC	C3-C2-C4-C5
6	D	101	LYC	C3-C2-C4-C5
6	G	101	LYC	C3-C2-C4-C5
6	I	103	LYC	C3-C2-C4-C5
6	K	101	LYC	C3-C2-C4-C5
6	M	101	LYC	C3-C2-C4-C5
6	O	101	LYC	C3-C2-C4-C5
6	Q	103	LYC	C3-C2-C4-C5
6	S	101	LYC	C3-C2-C4-C5
6	U	101	LYC	C3-C2-C4-C5
6	W	101	LYC	C3-C2-C4-C5
6	Y	103	LYC	C3-C2-C4-C5
6	a	101	LYC	C3-C2-C4-C5
6	c	101	LYC	C3-C2-C4-C5
6	e	101	LYC	C3-C2-C4-C5
6	A	103	LYC	C55-C56-C58-C59
6	C	102	LYC	C55-C56-C58-C59
6	D	101	LYC	C55-C56-C58-C59
6	G	101	LYC	C55-C56-C58-C59
6	I	103	LYC	C55-C56-C58-C59
6	K	101	LYC	C55-C56-C58-C59
6	M	101	LYC	C55-C56-C58-C59
6	O	101	LYC	C55-C56-C58-C59
6	Q	103	LYC	C55-C56-C58-C59
6	S	101	LYC	C55-C56-C58-C59
6	U	101	LYC	C55-C56-C58-C59
6	W	101	LYC	C55-C56-C58-C59
6	Y	103	LYC	C55-C56-C58-C59
6	a	101	LYC	C55-C56-C58-C59
6	c	101	LYC	C55-C56-C58-C59
6	e	101	LYC	C55-C56-C58-C59

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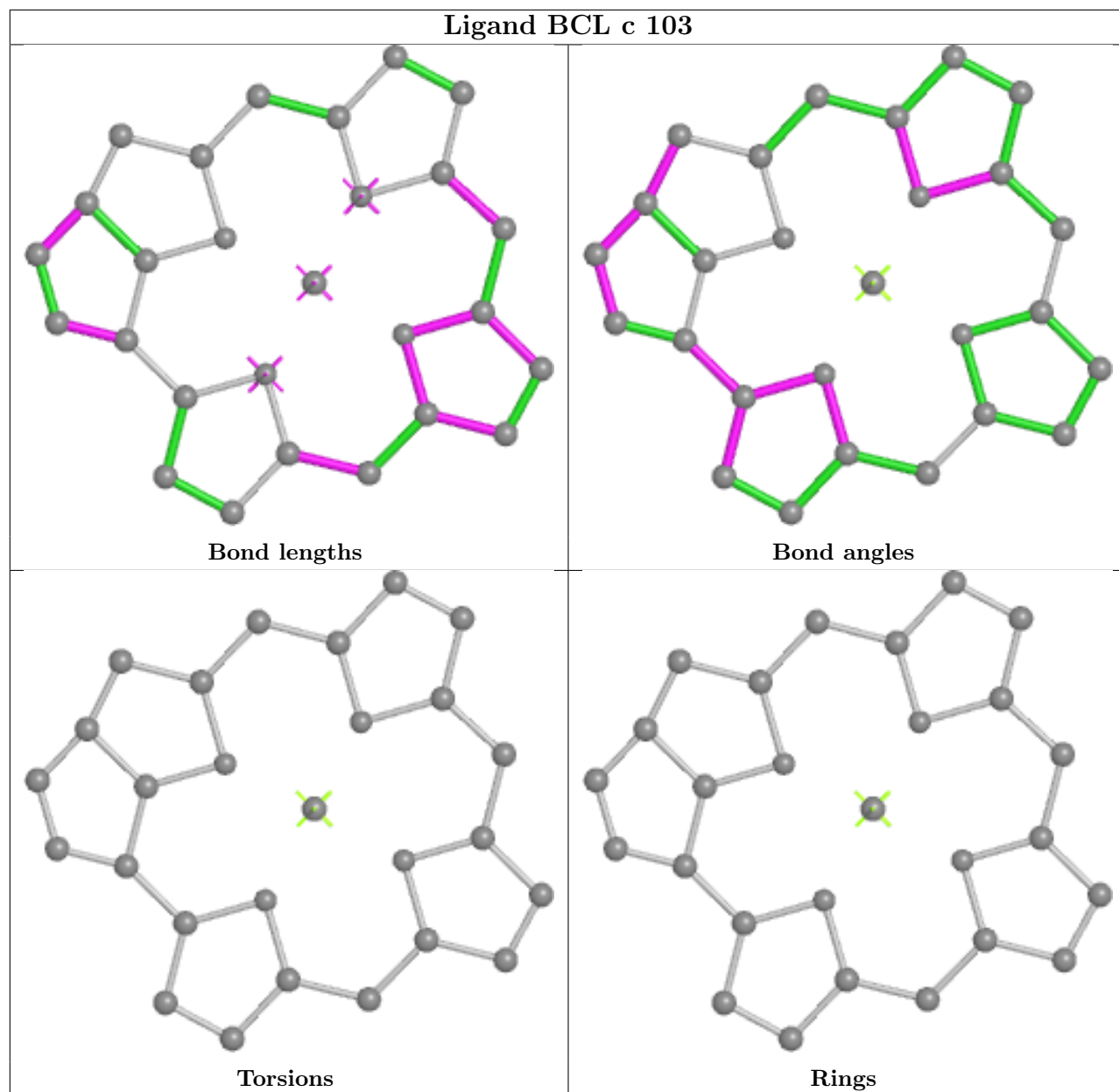
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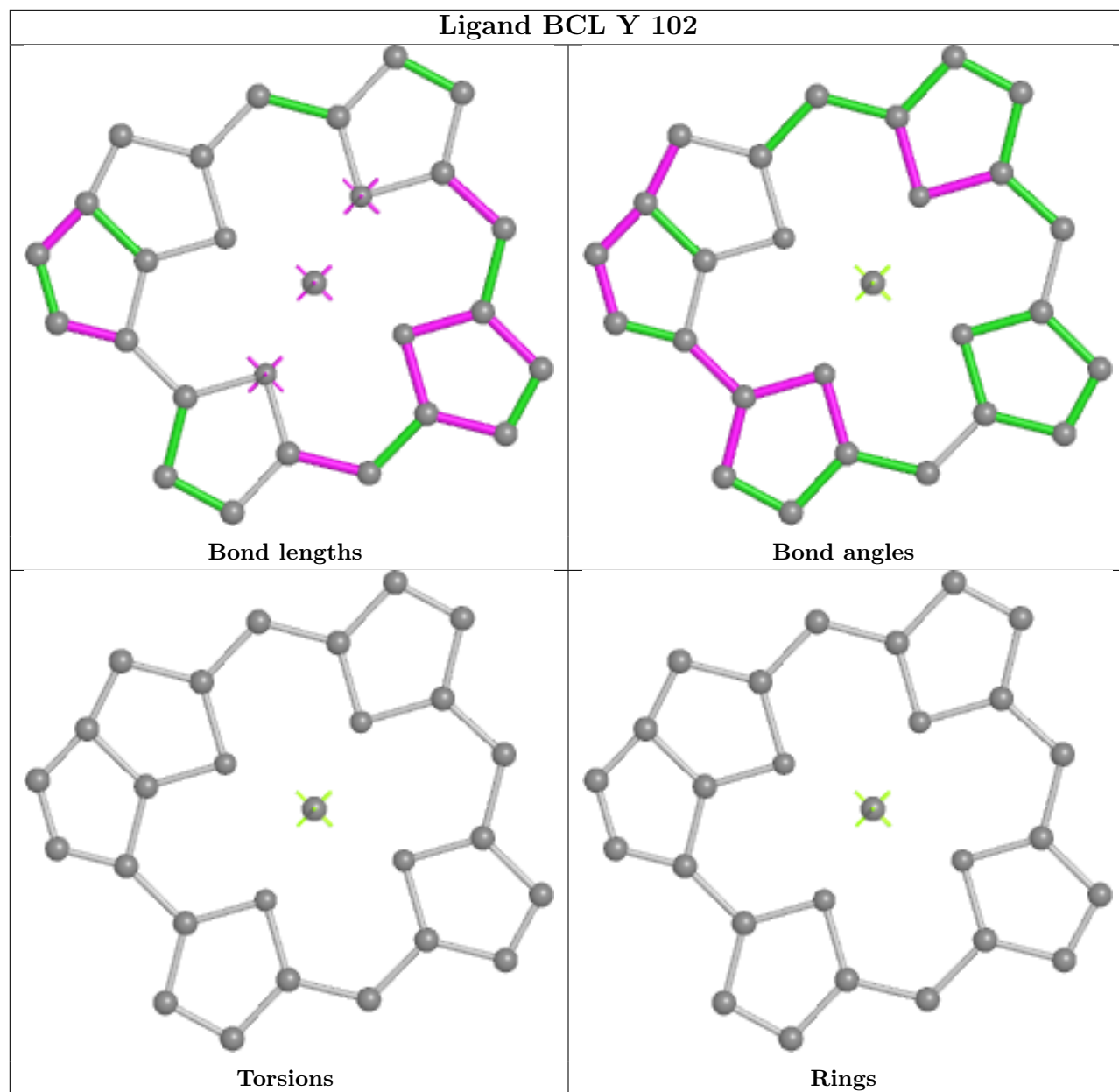
Mol	Chain	Res	Type	Atoms
6	c	101	LYC	C18-C17-C19-C20
6	D	101	LYC	C18-C17-C19-C20
6	K	101	LYC	C18-C17-C19-C20
6	Q	103	LYC	C18-C17-C19-C20
6	Y	103	LYC	C18-C17-C19-C20
6	e	101	LYC	C18-C17-C19-C20
6	A	103	LYC	C18-C17-C19-C20
6	C	102	LYC	C18-C17-C19-C20
6	G	101	LYC	C18-C17-C19-C20
6	I	103	LYC	C18-C17-C19-C20
6	M	101	LYC	C18-C17-C19-C20
6	O	101	LYC	C18-C17-C19-C20
6	S	101	LYC	C18-C17-C19-C20
6	U	101	LYC	C18-C17-C19-C20
6	W	101	LYC	C18-C17-C19-C20
6	a	101	LYC	C18-C17-C19-C20

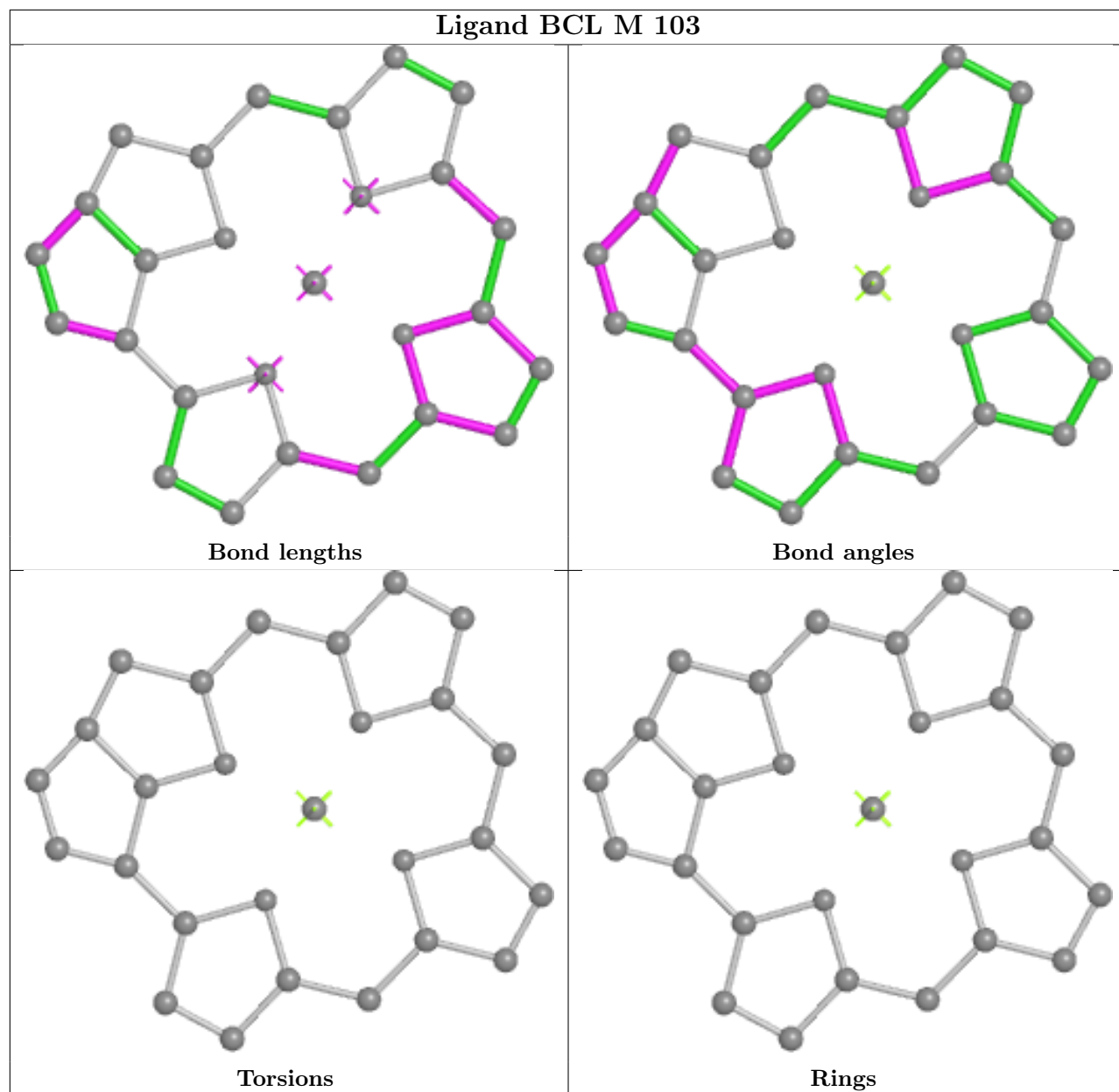
There are no ring outliers.

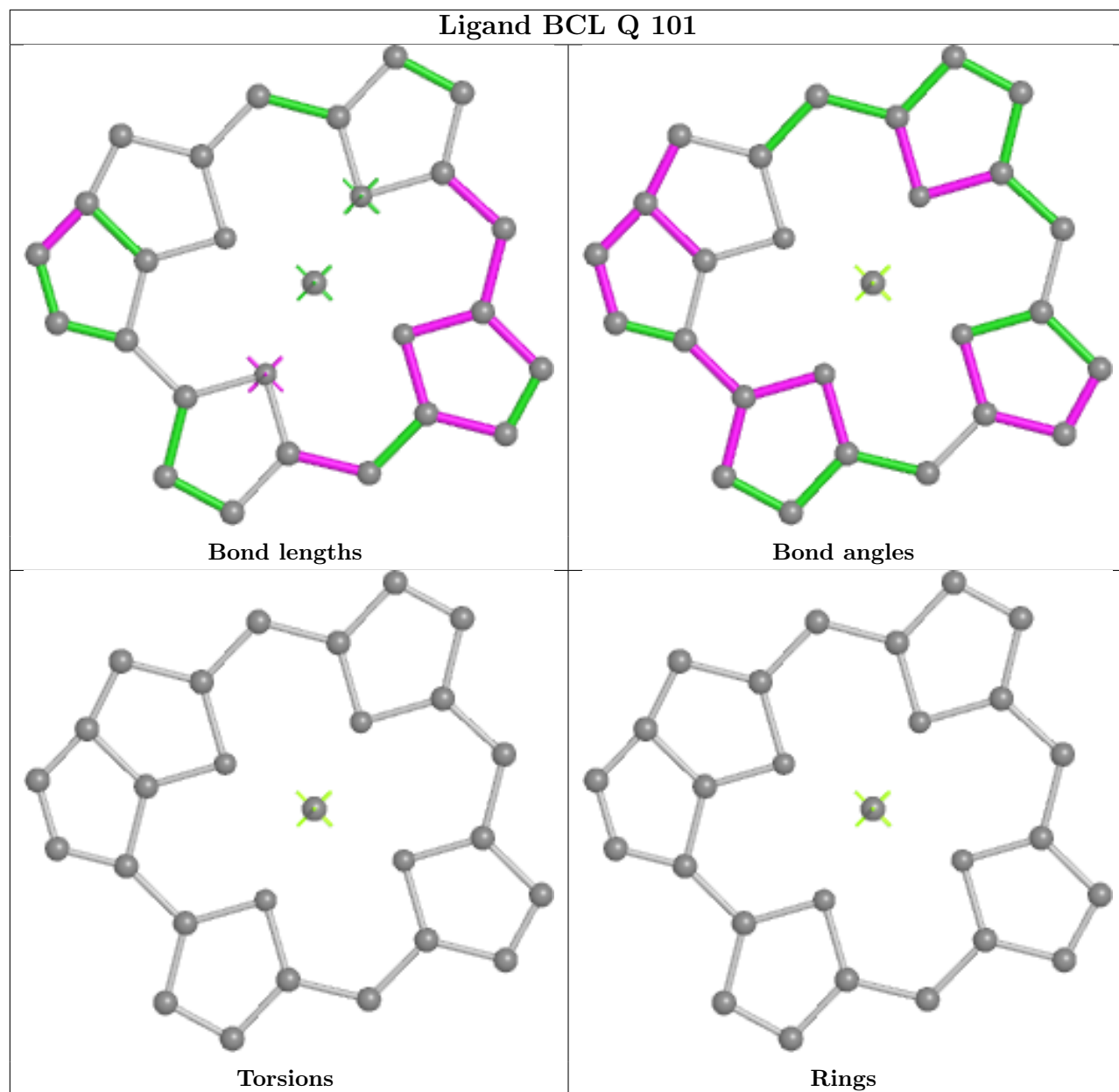
No monomer is involved in short contacts.

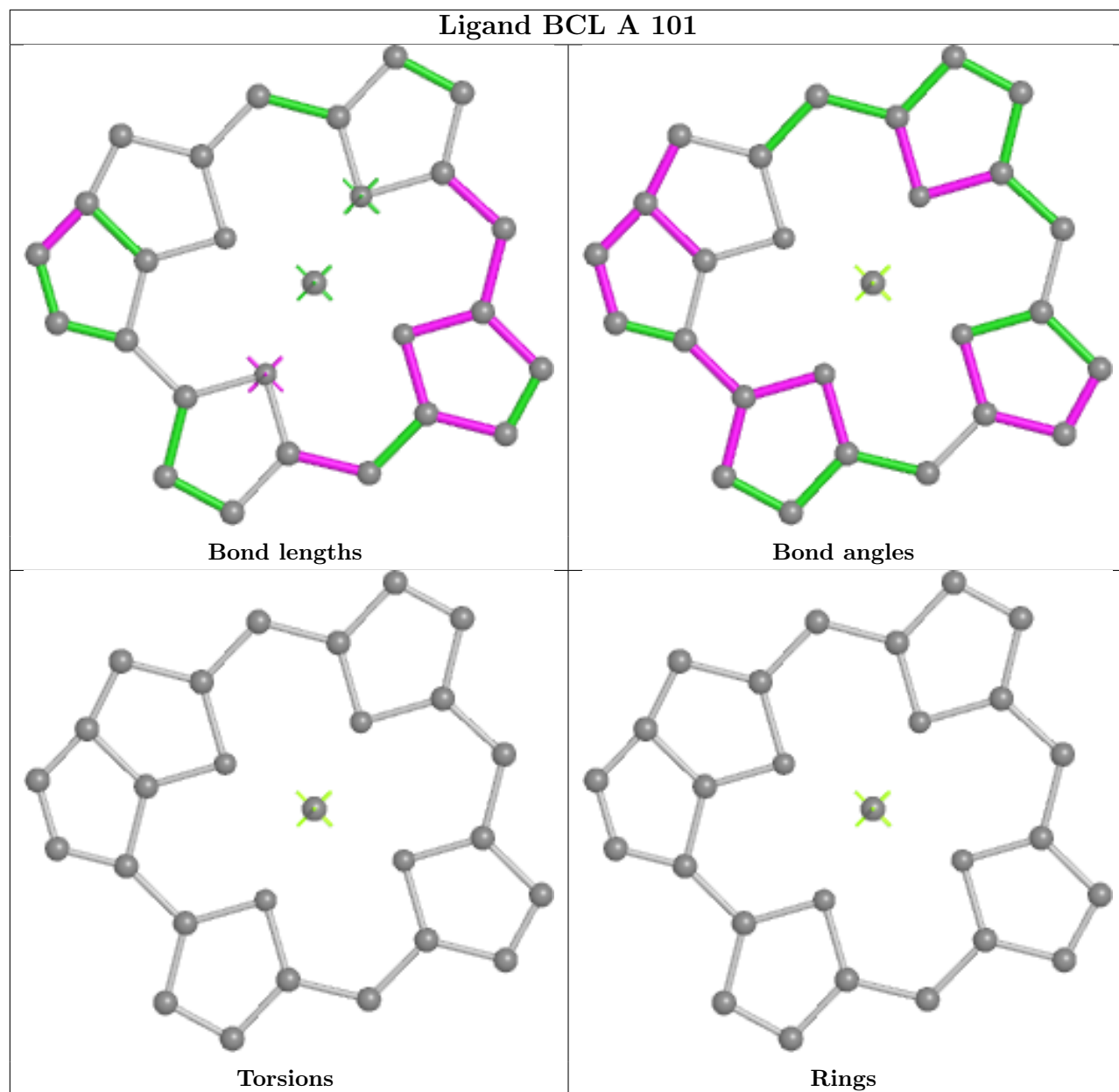
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

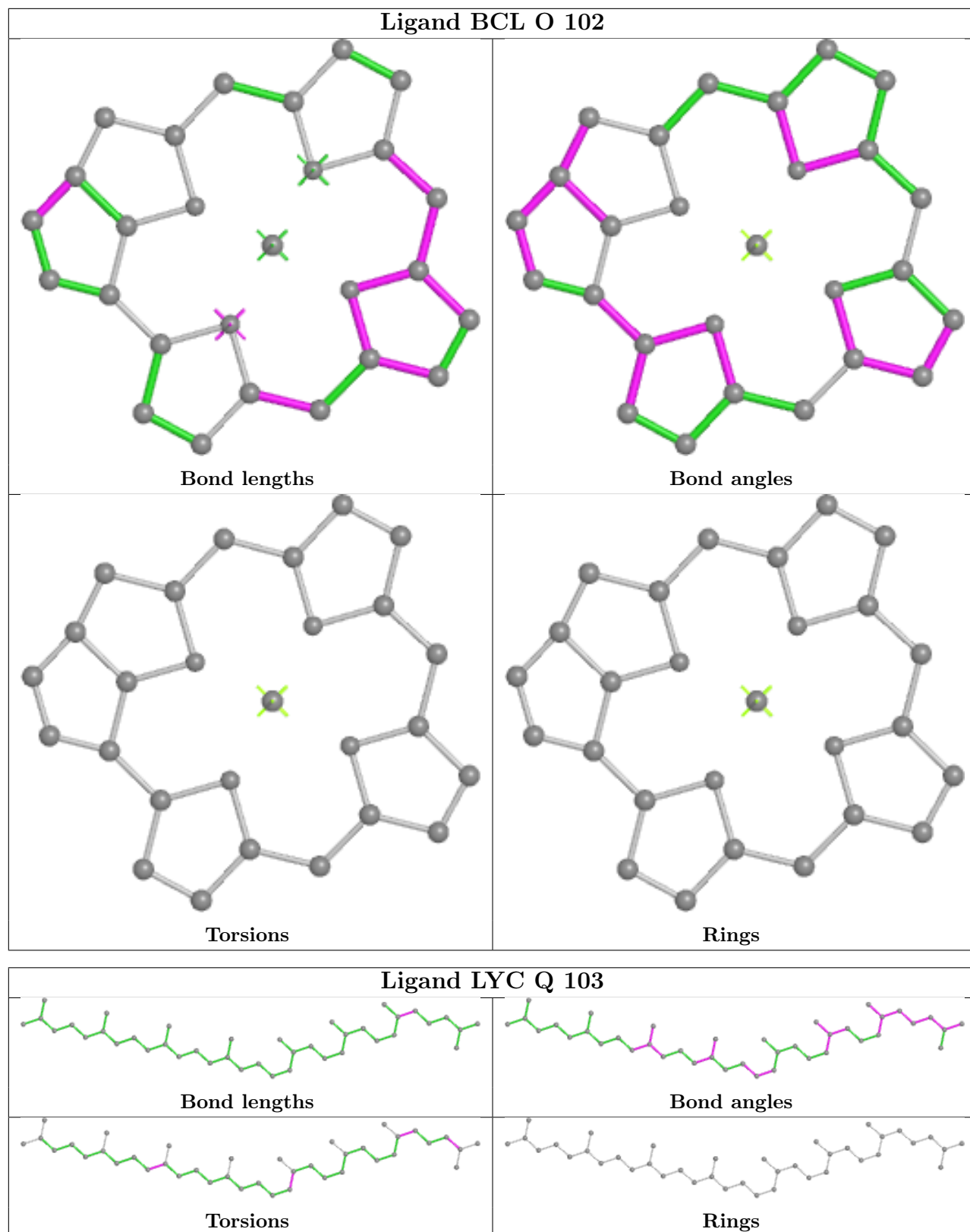


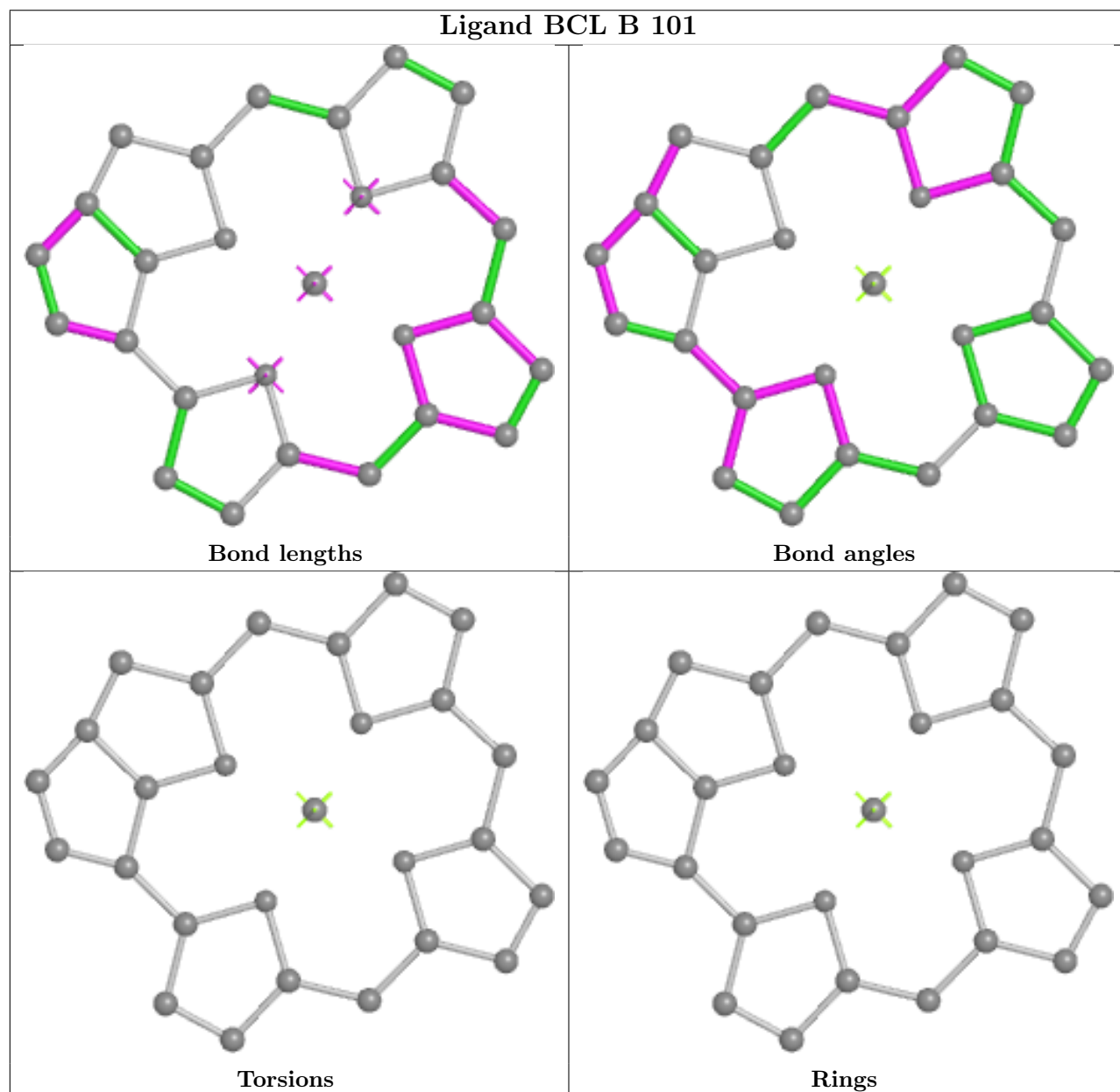
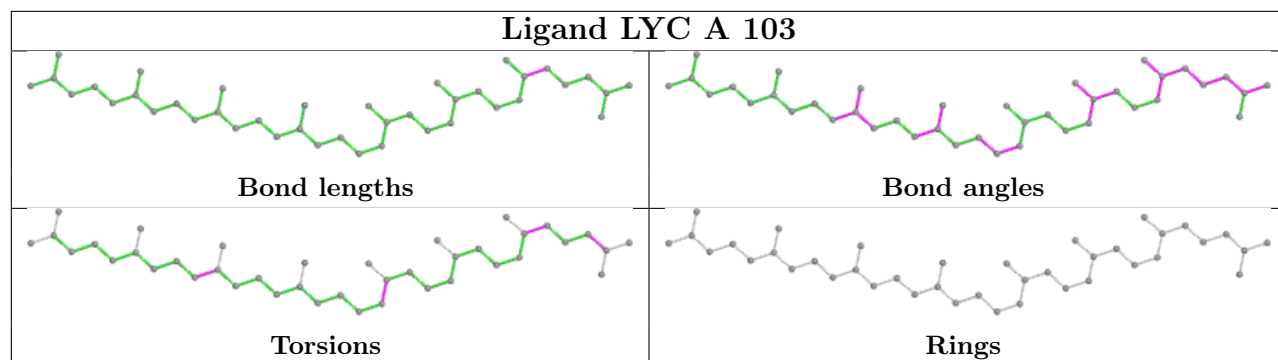


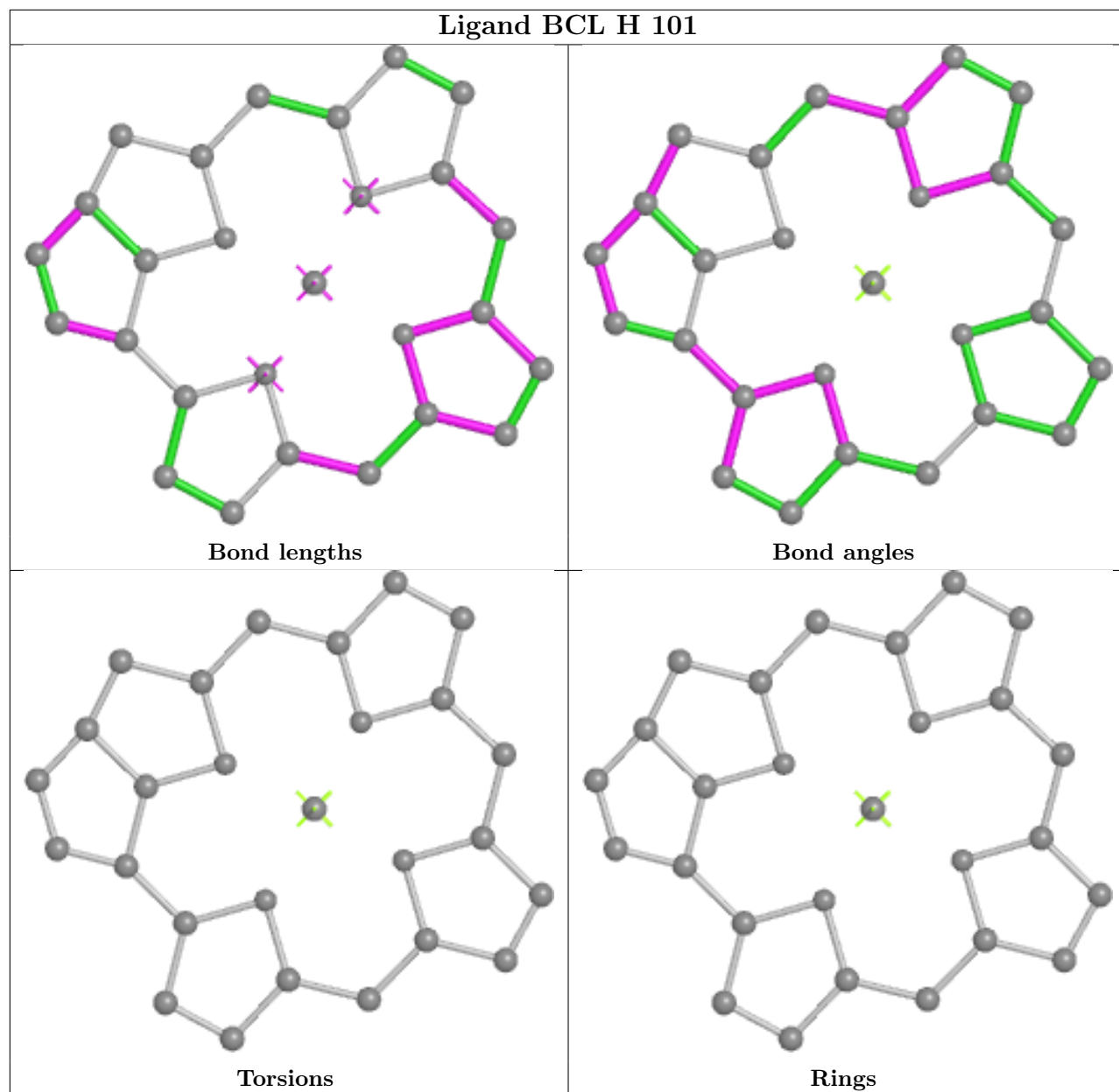


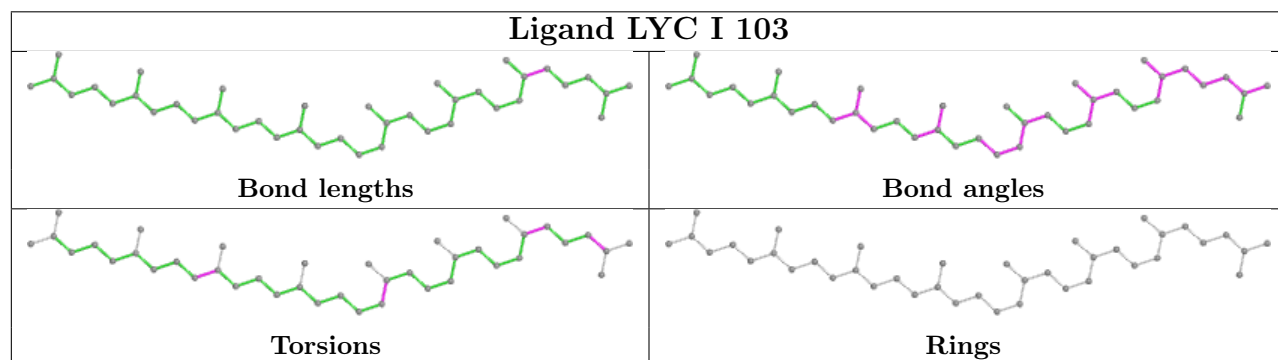
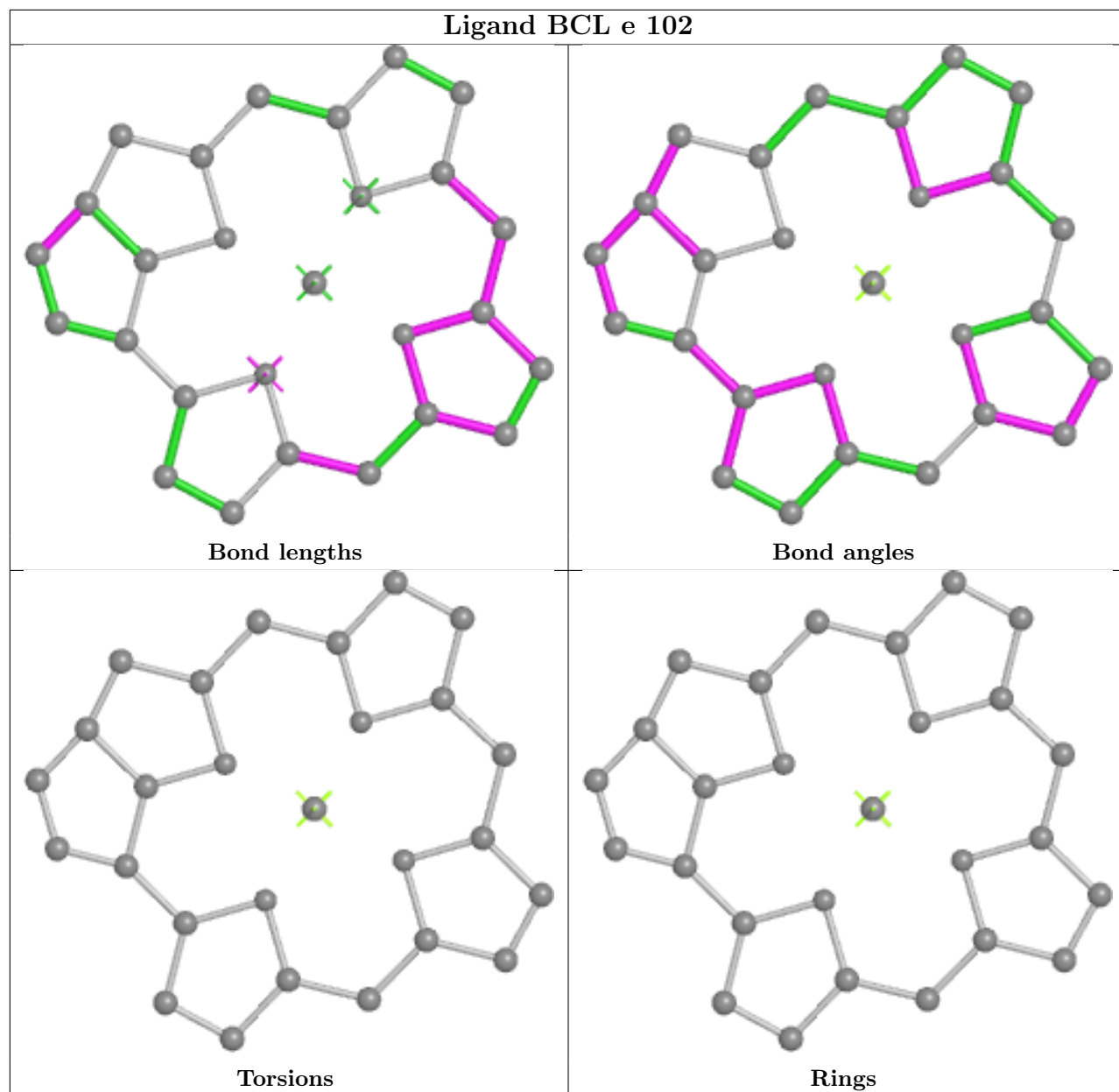


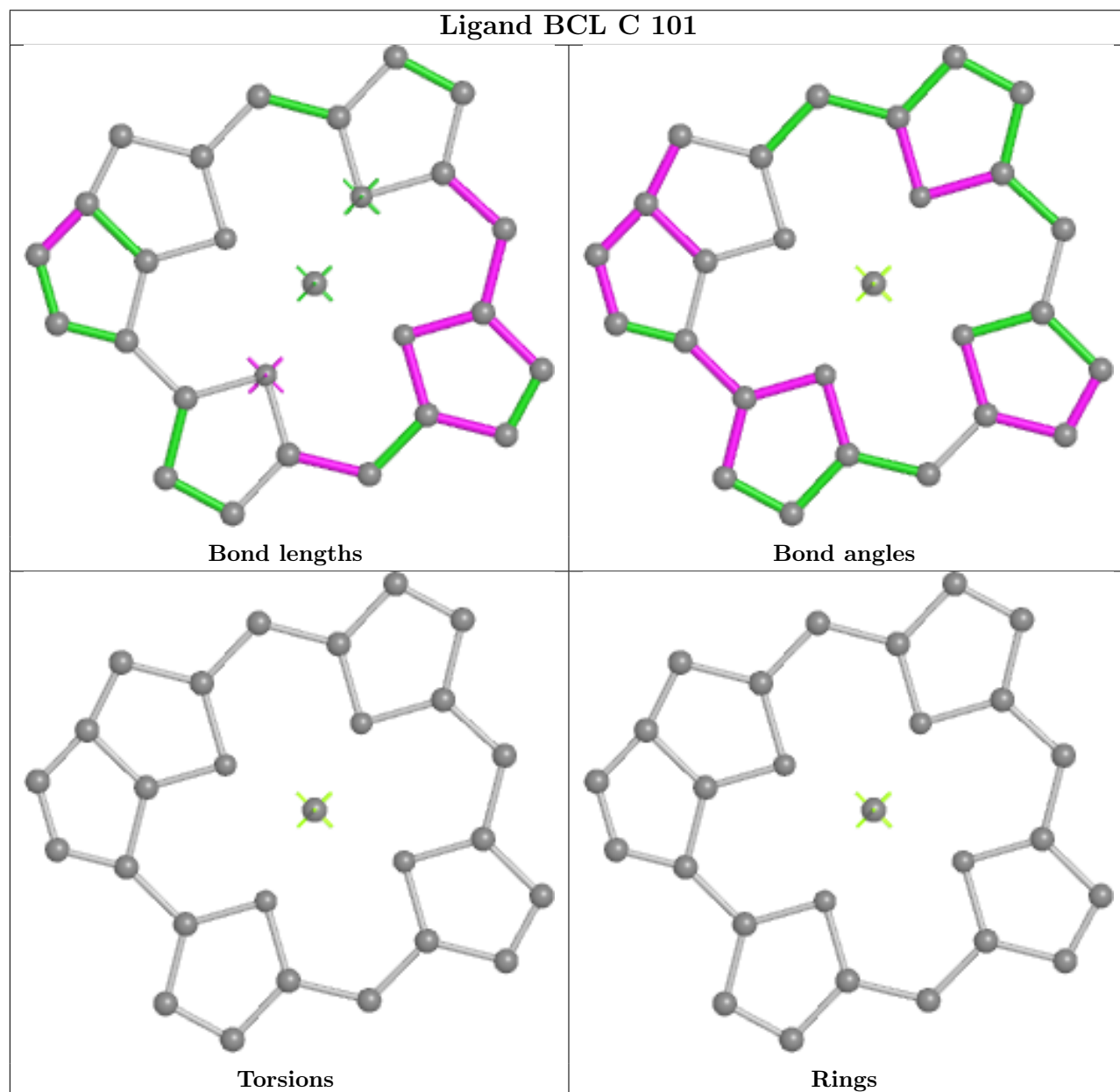
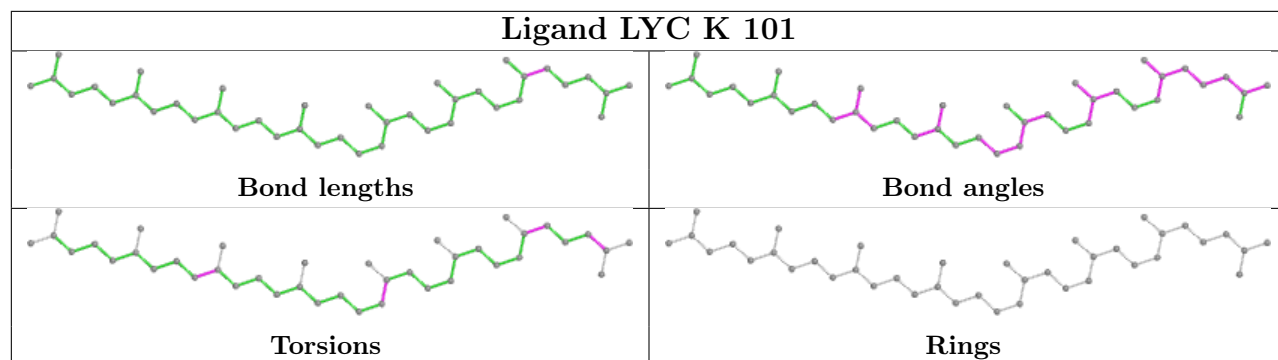


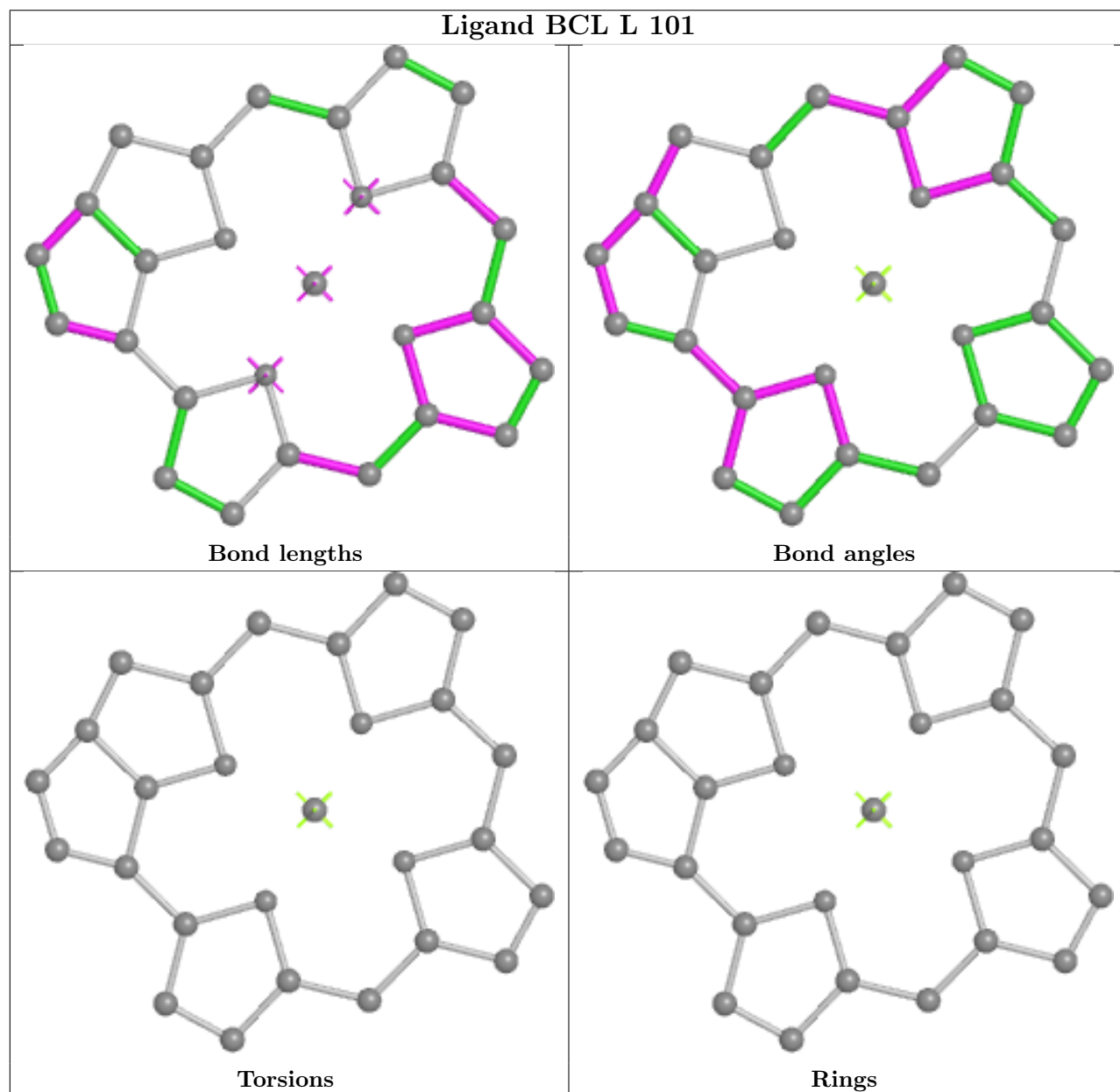
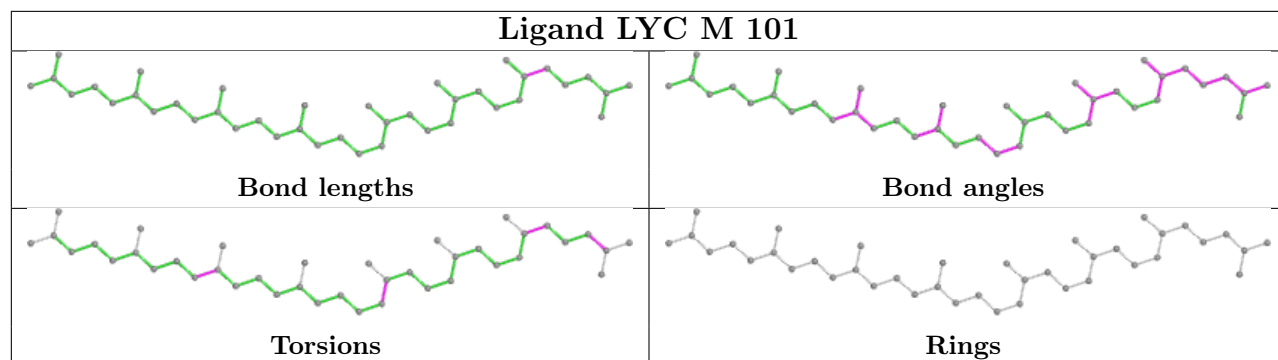


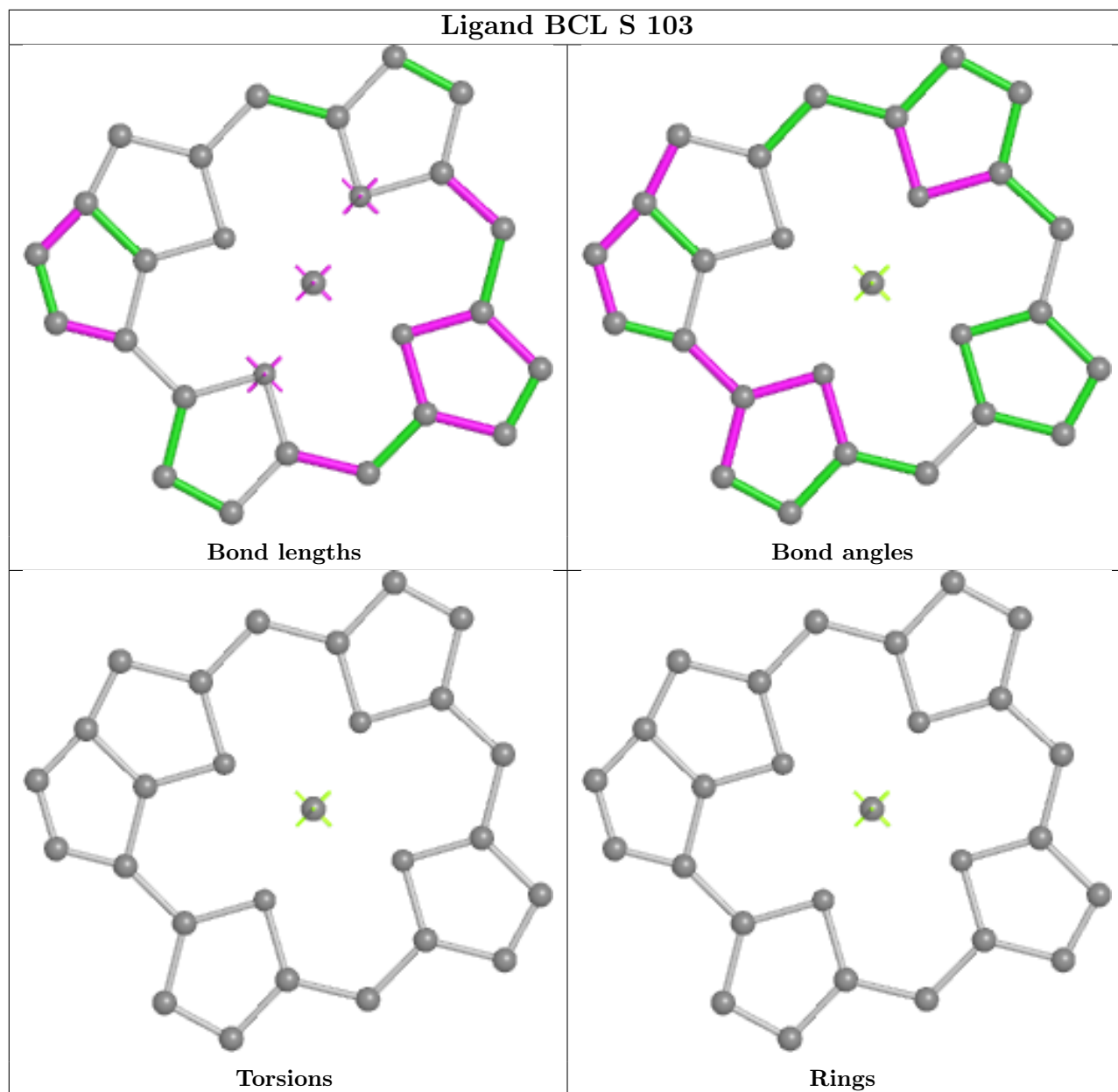


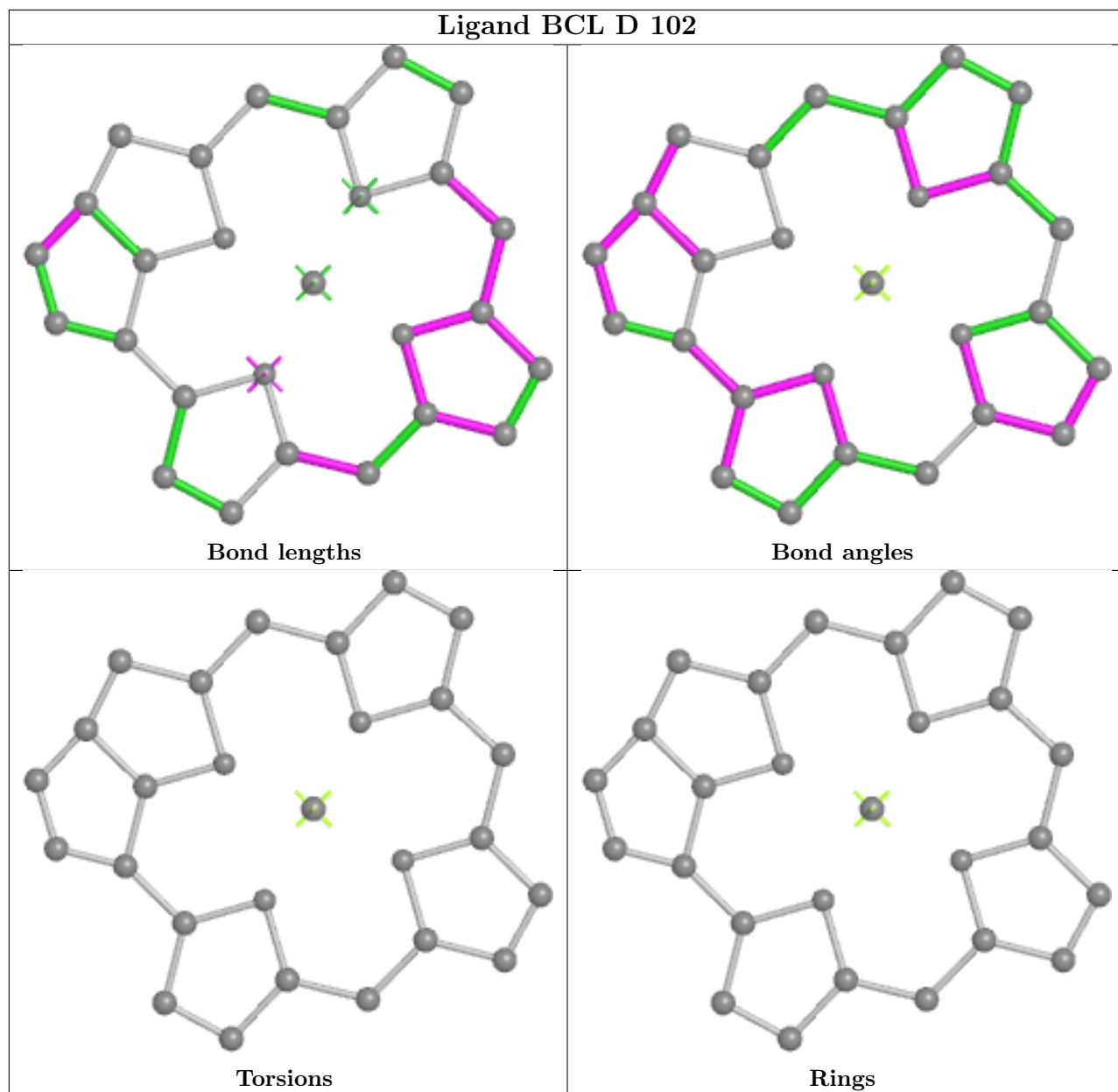


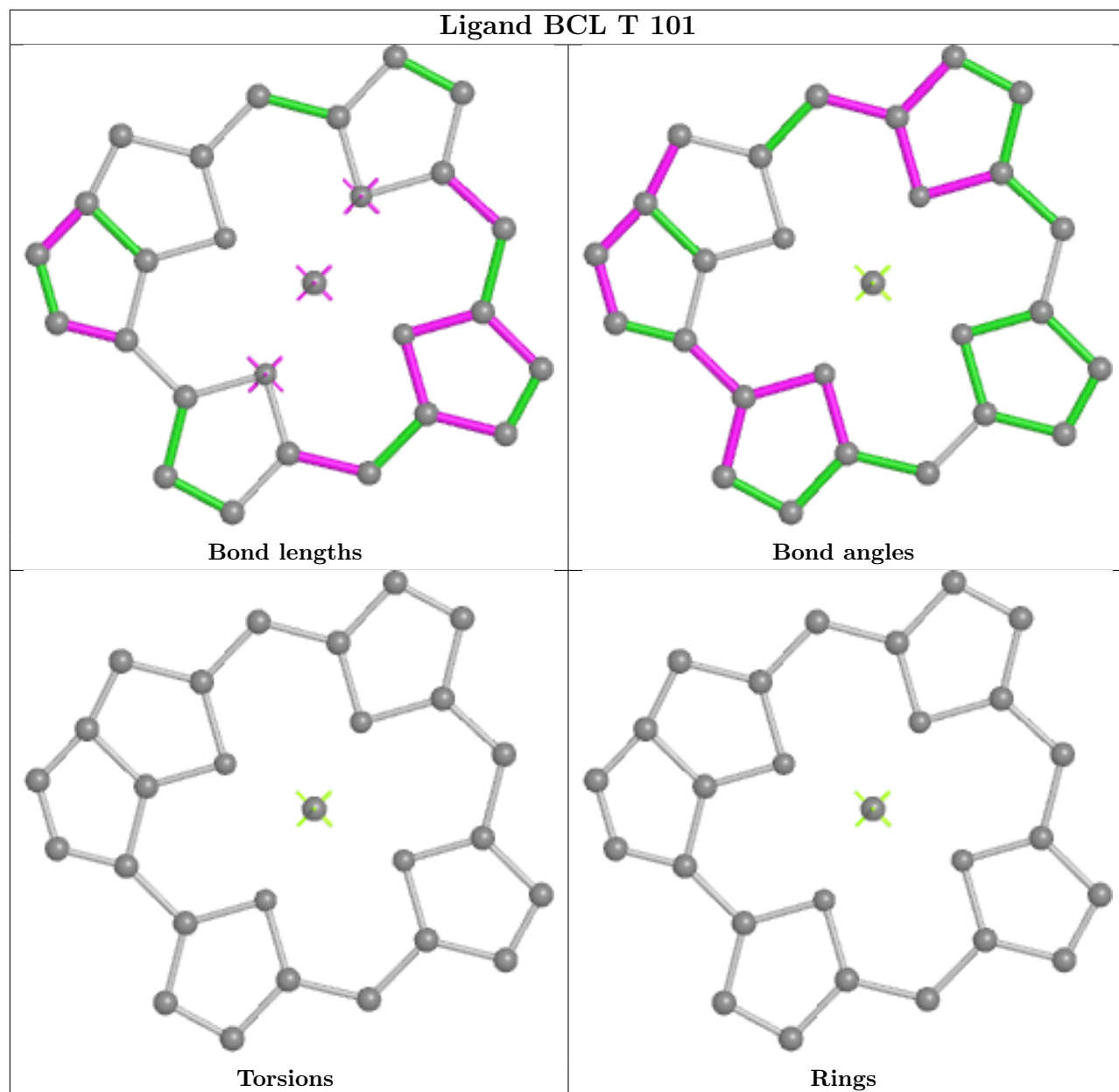


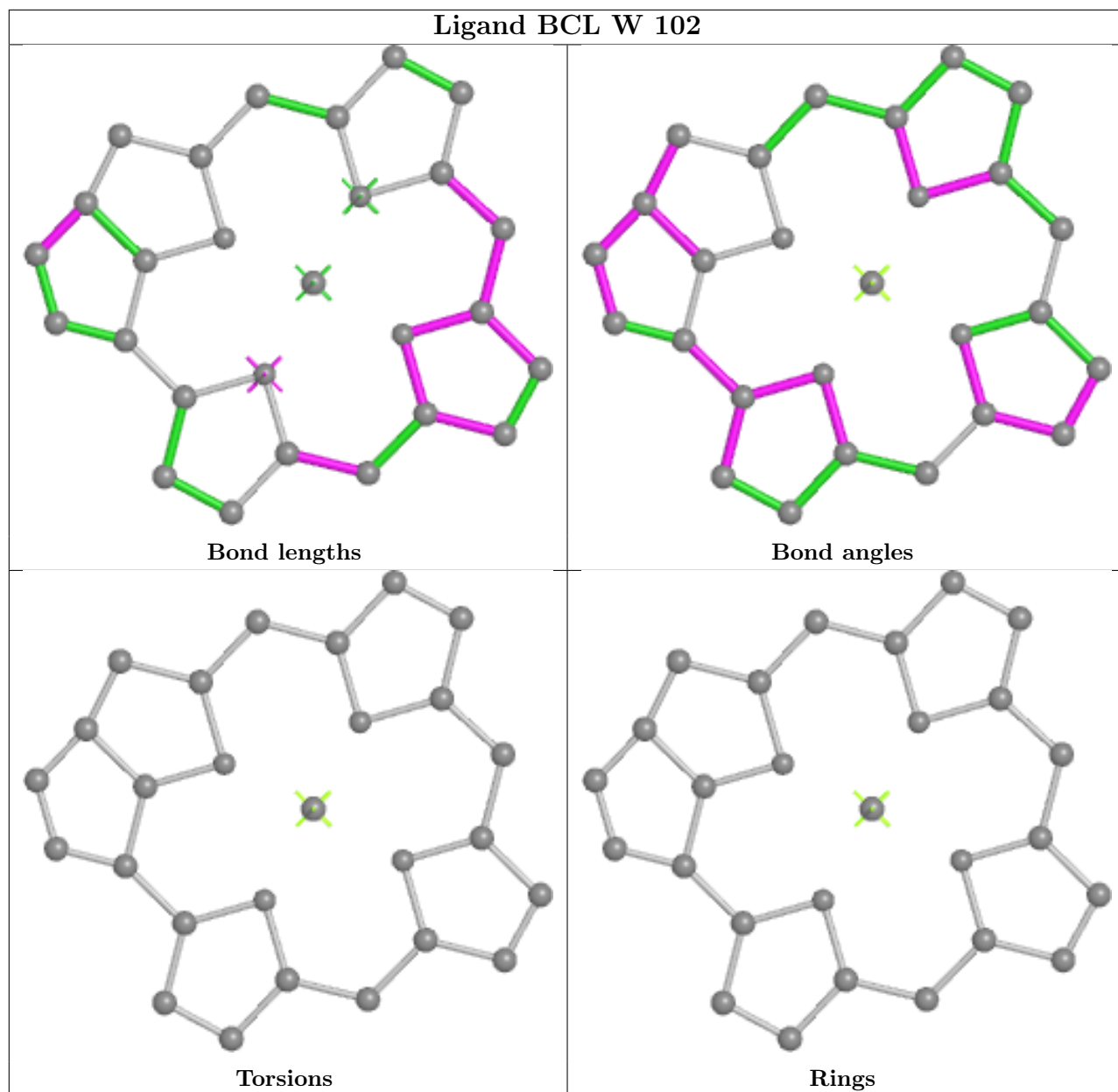


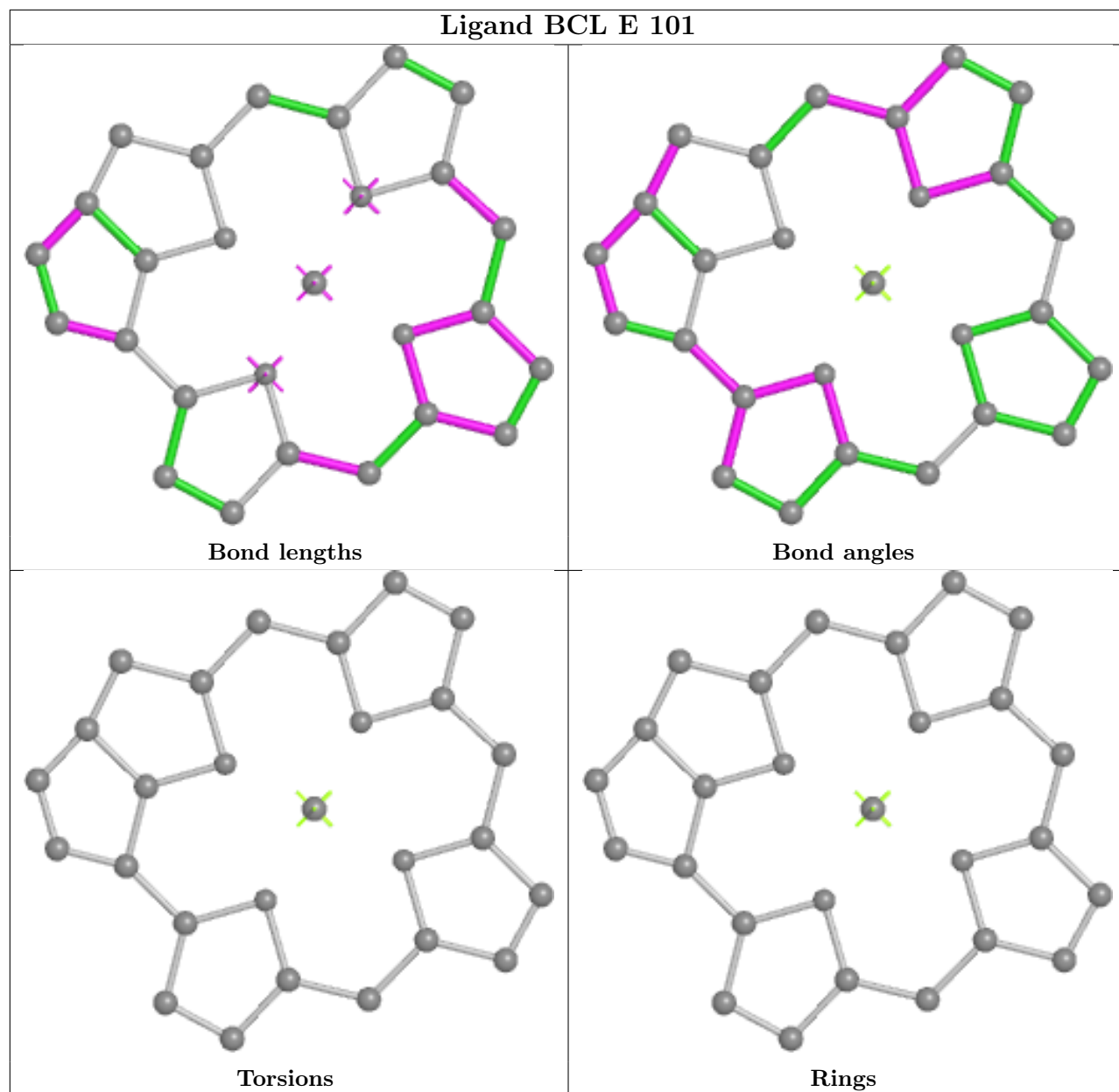


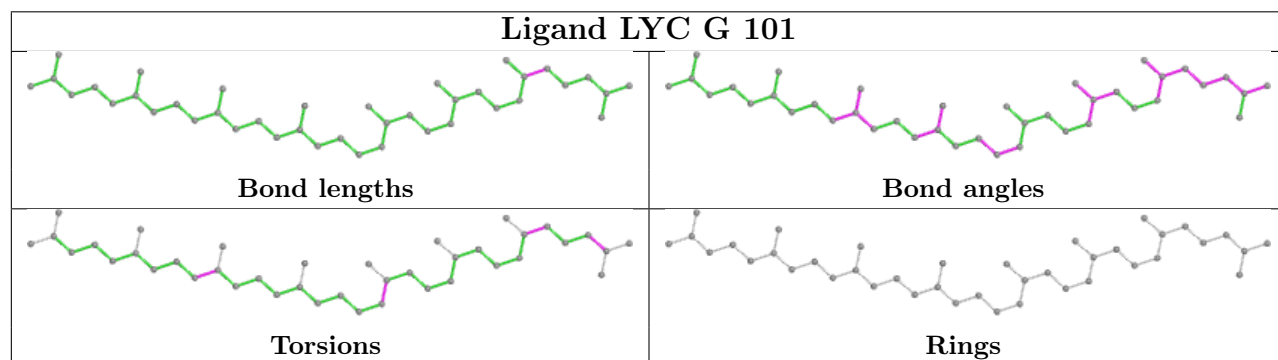
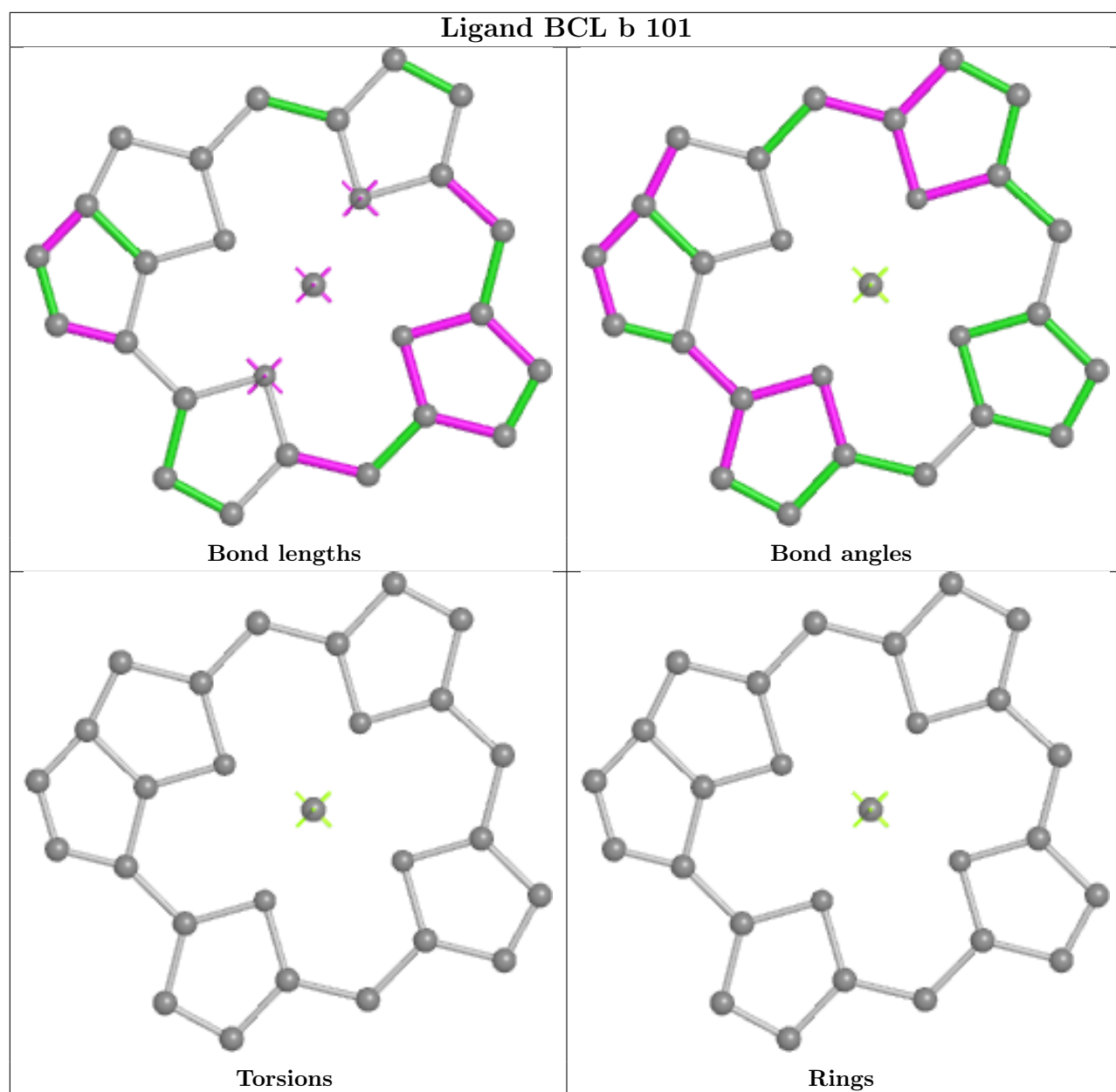


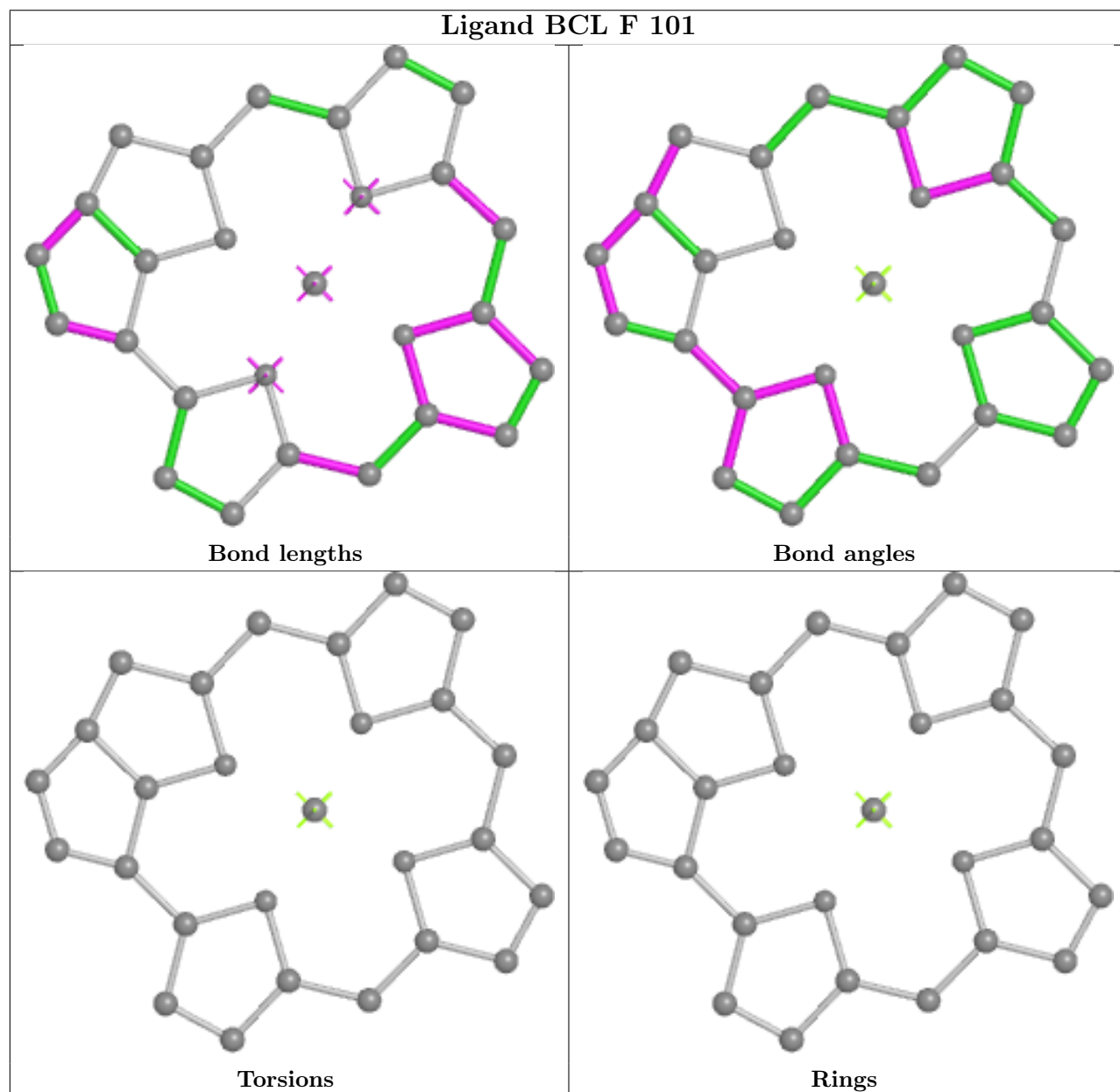
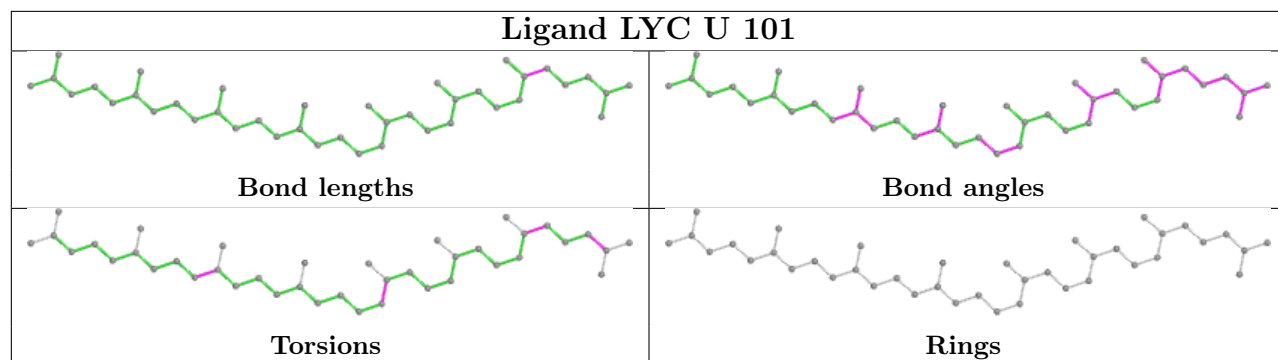


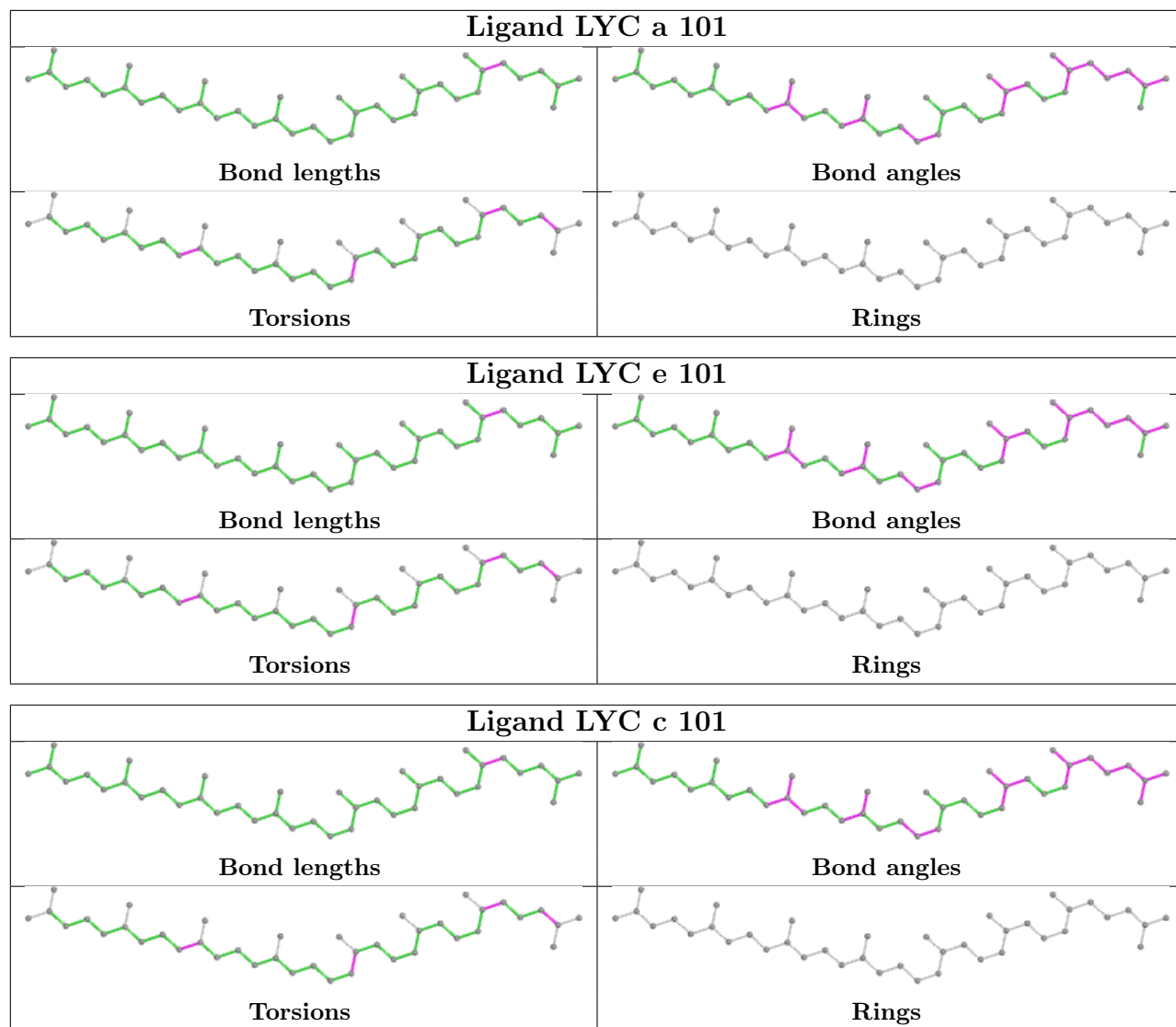


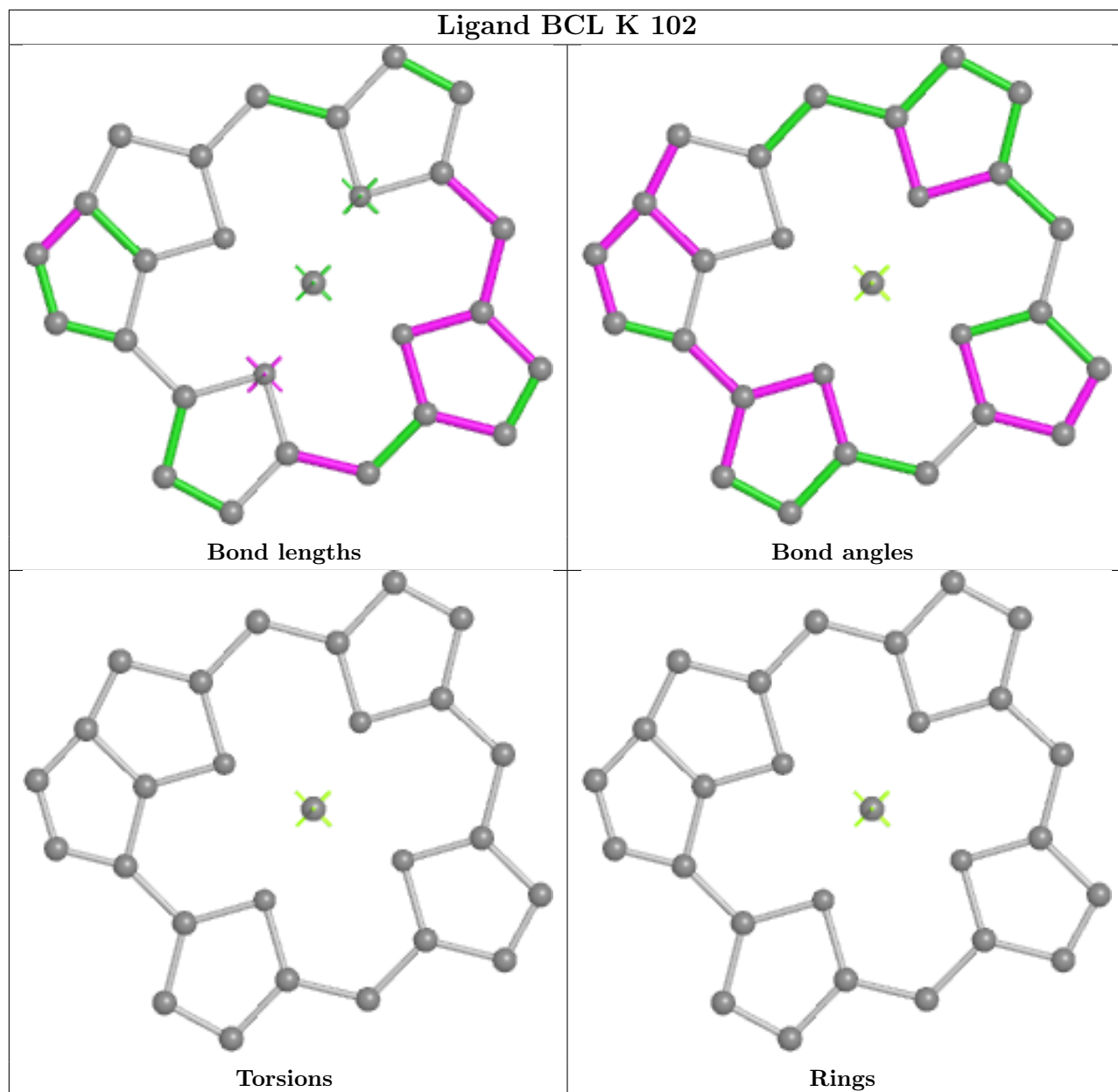


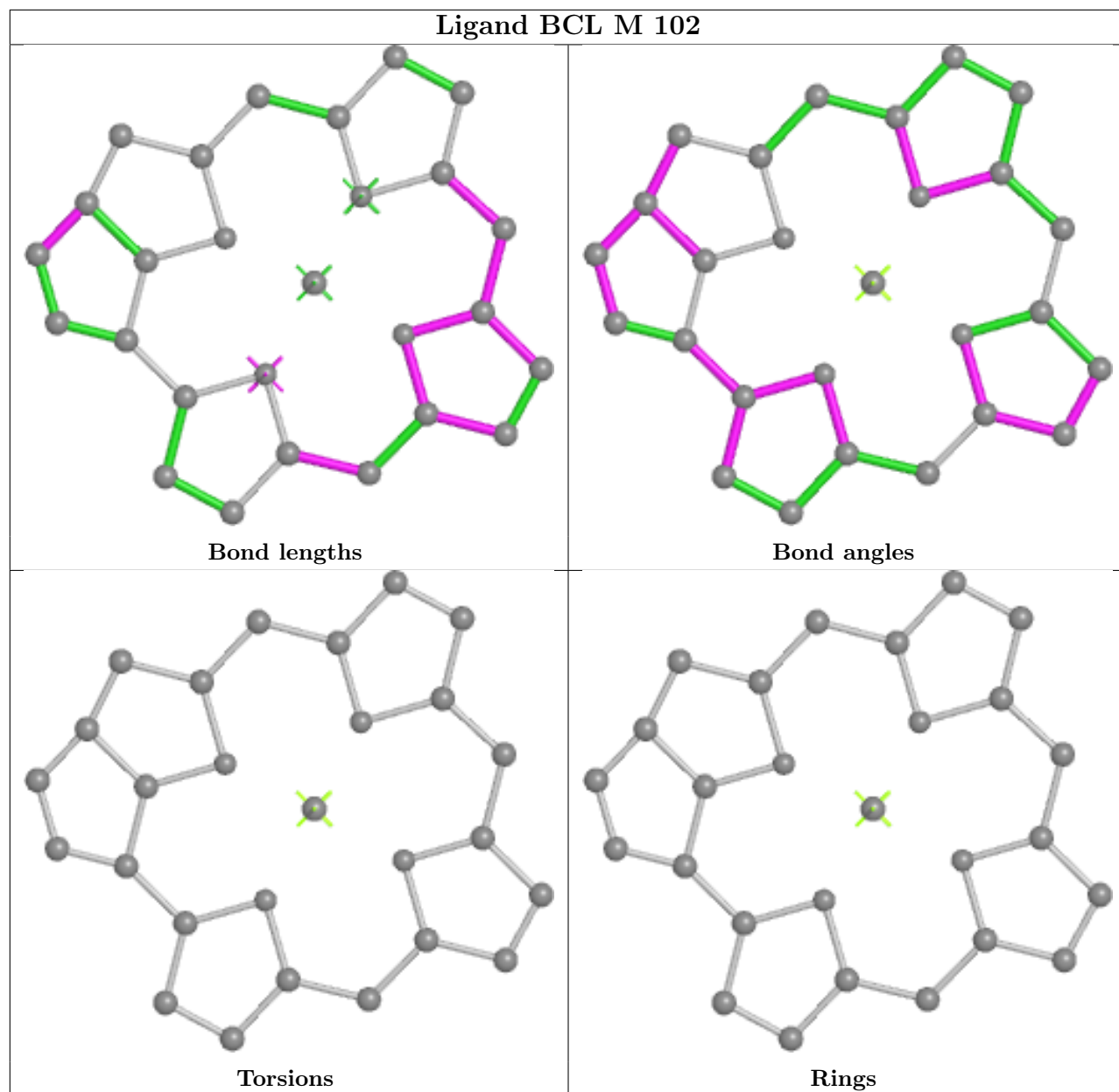


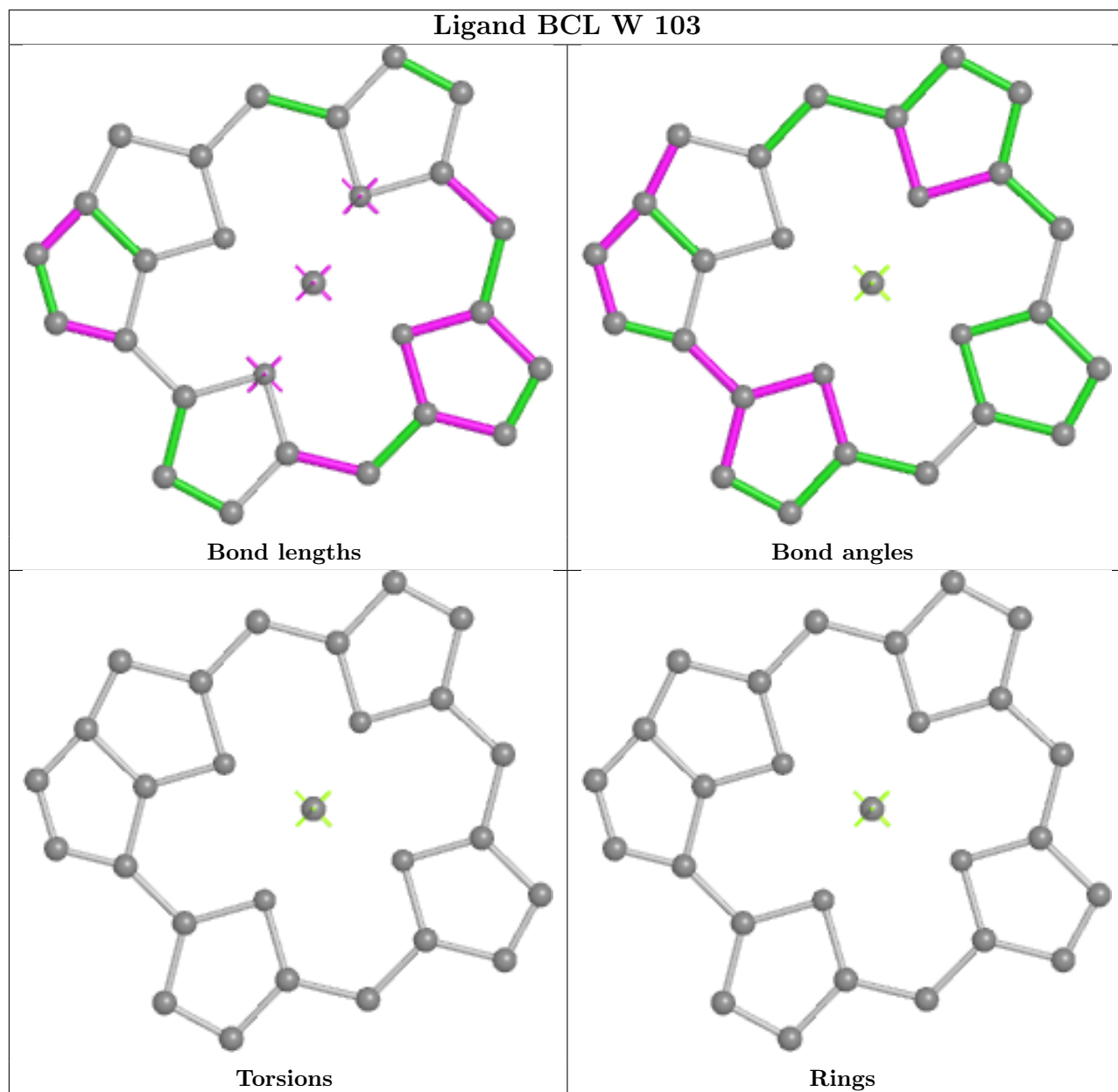


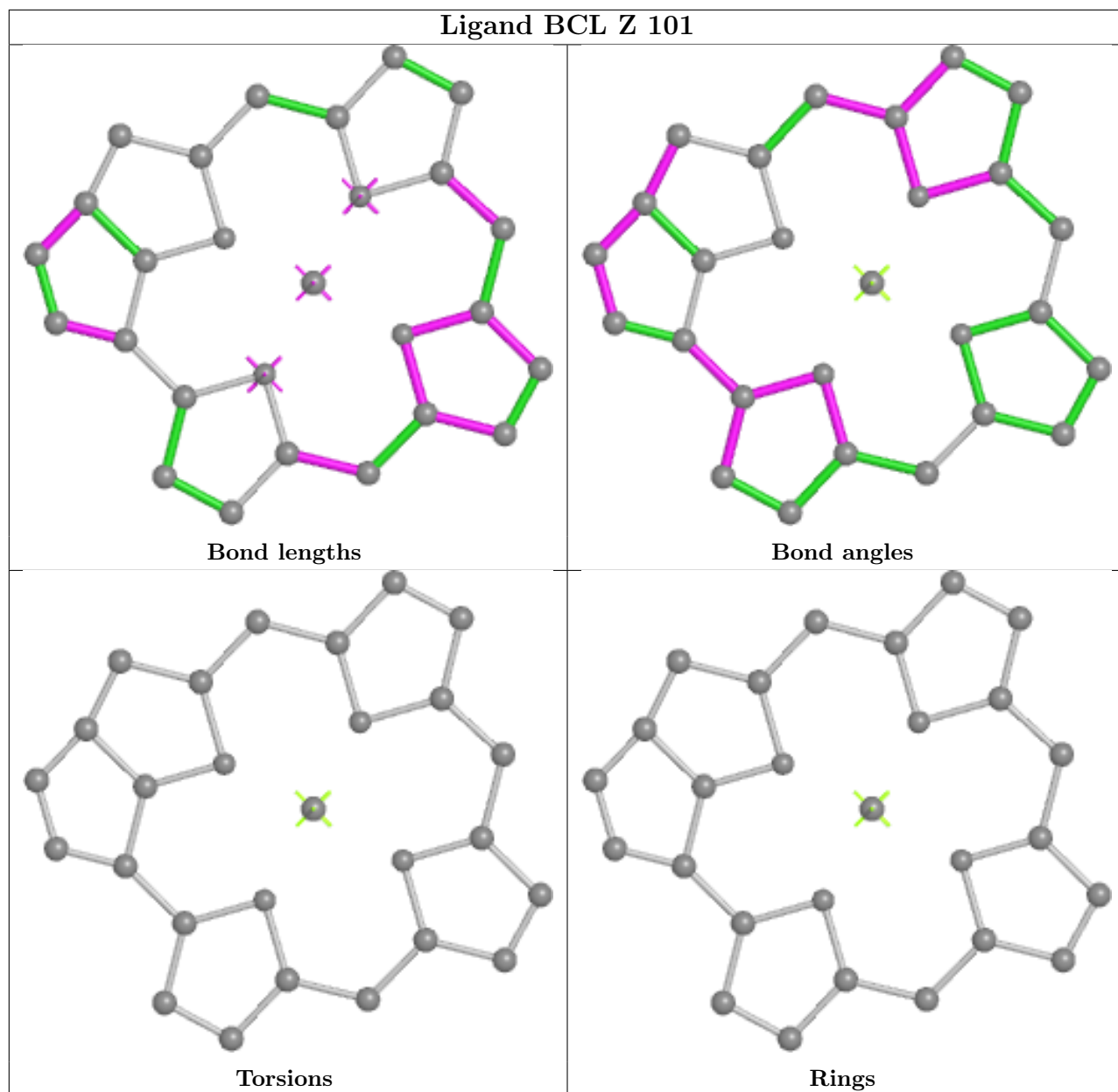


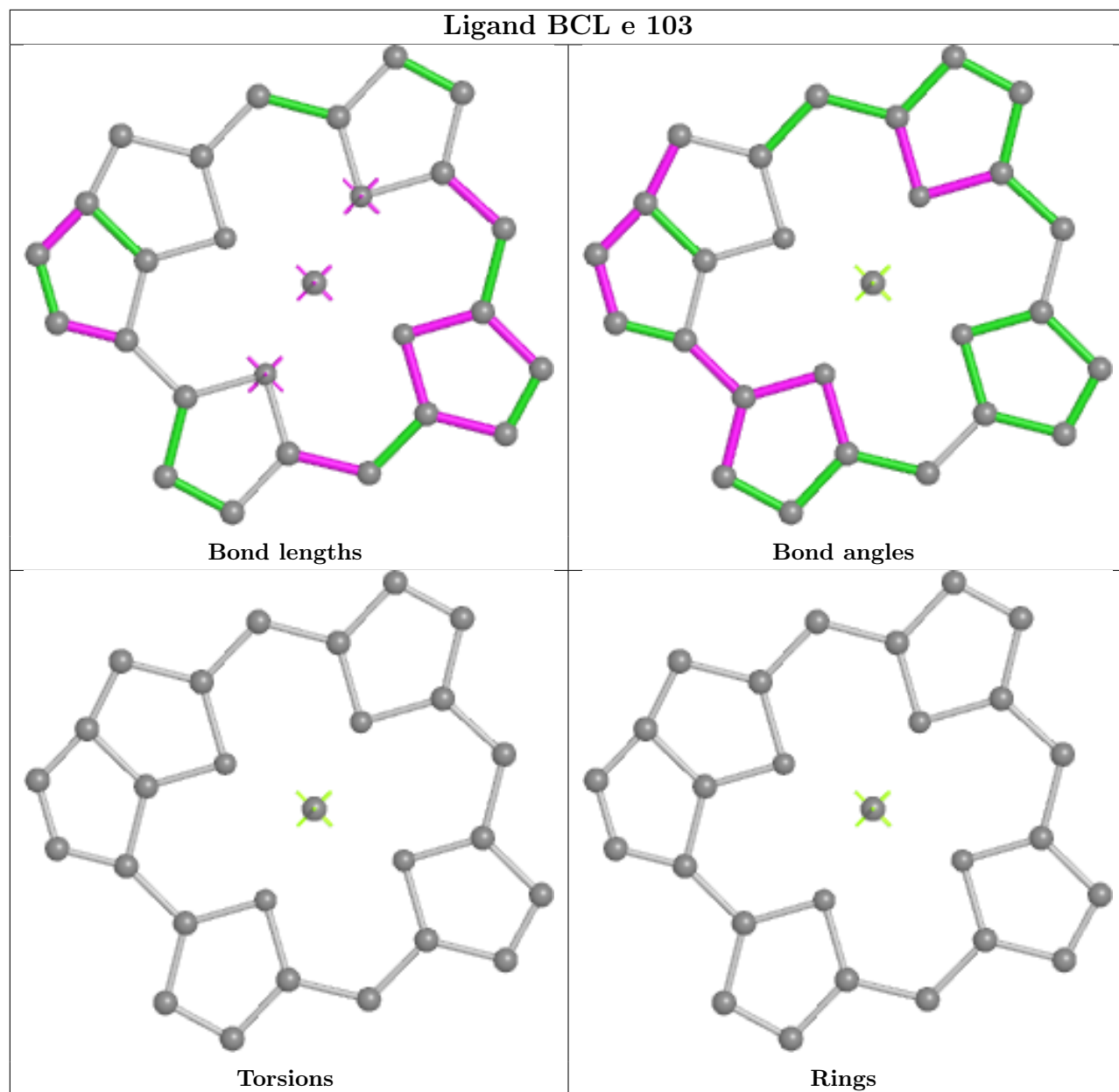


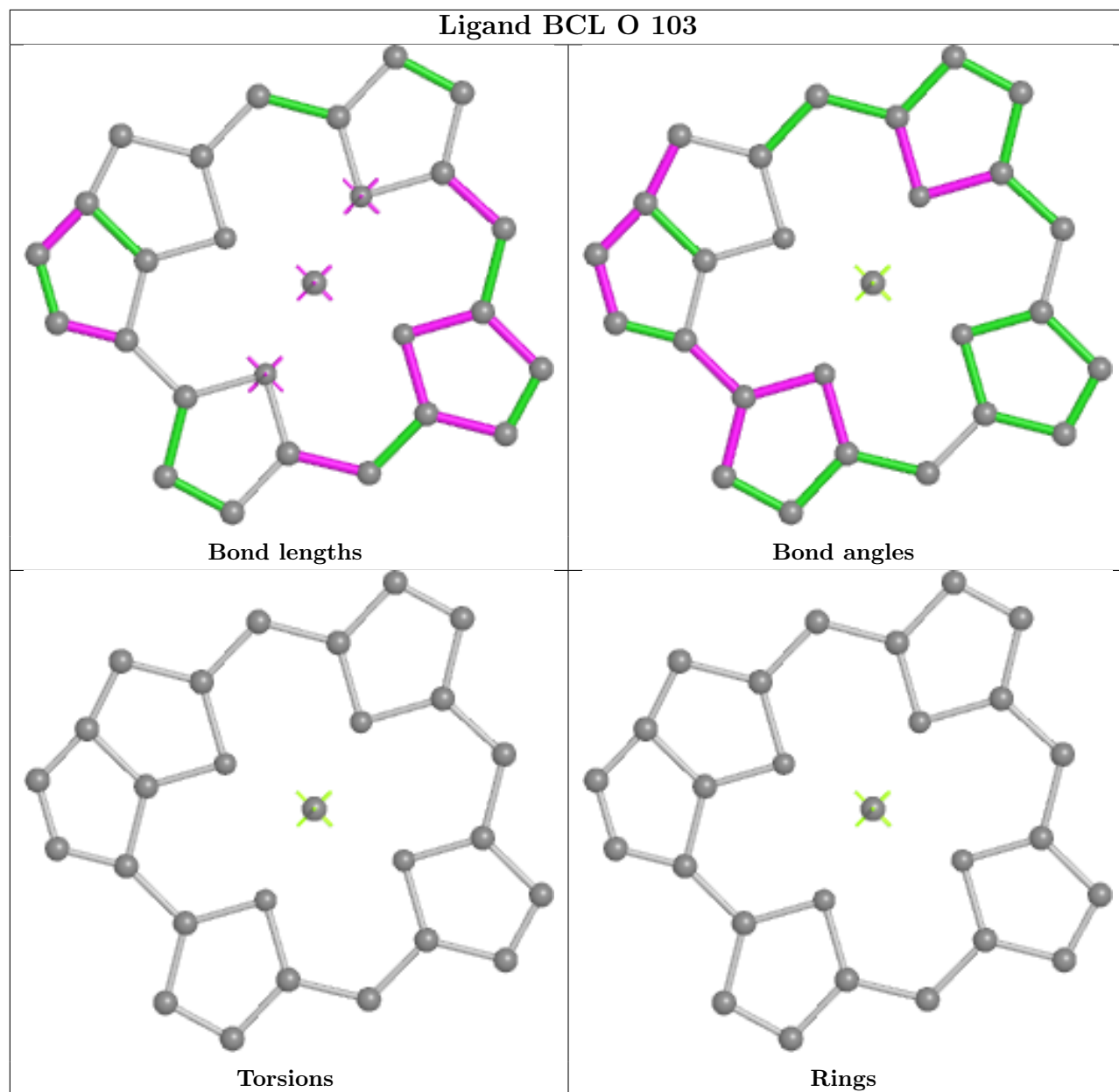


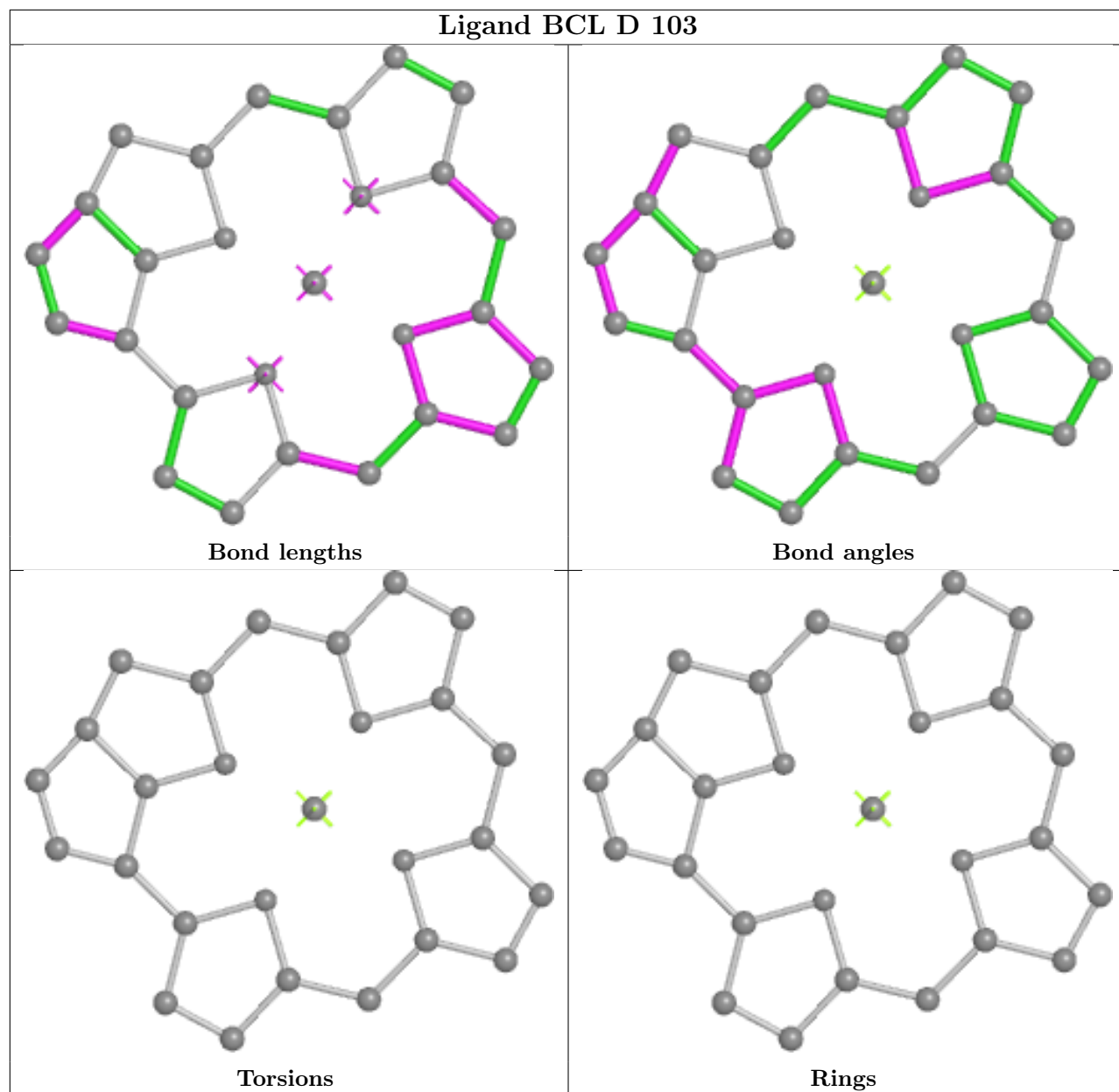


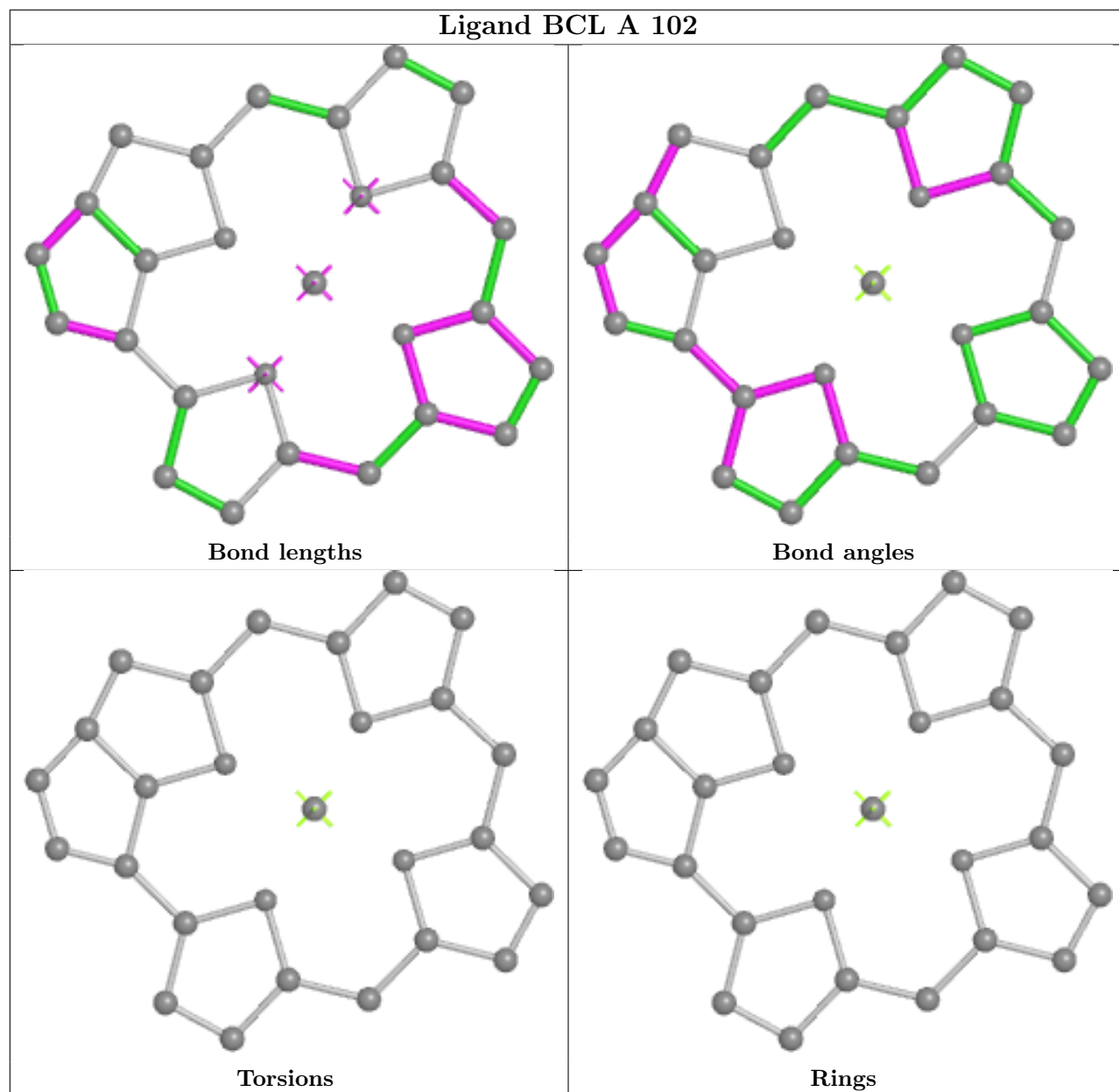


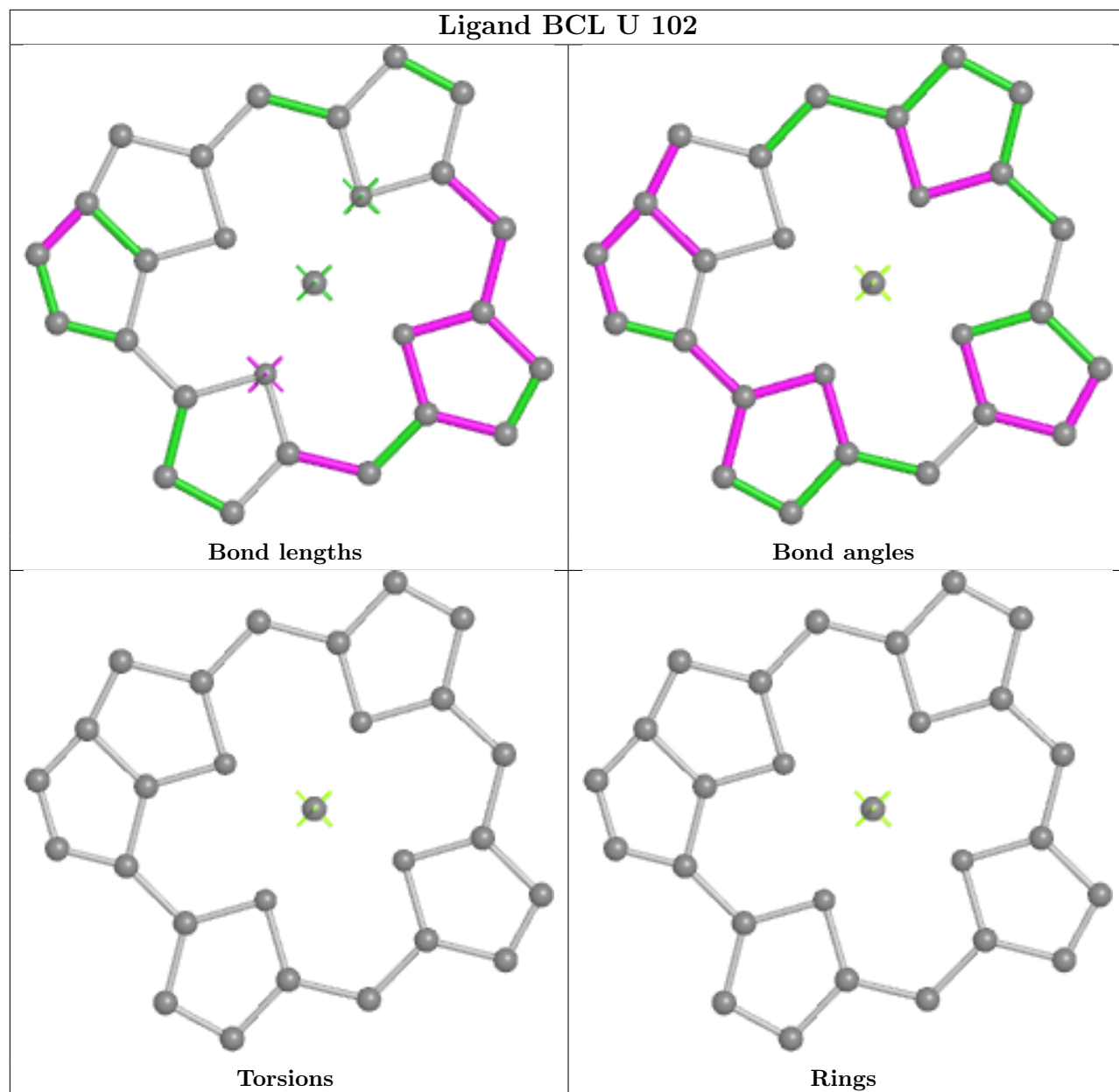


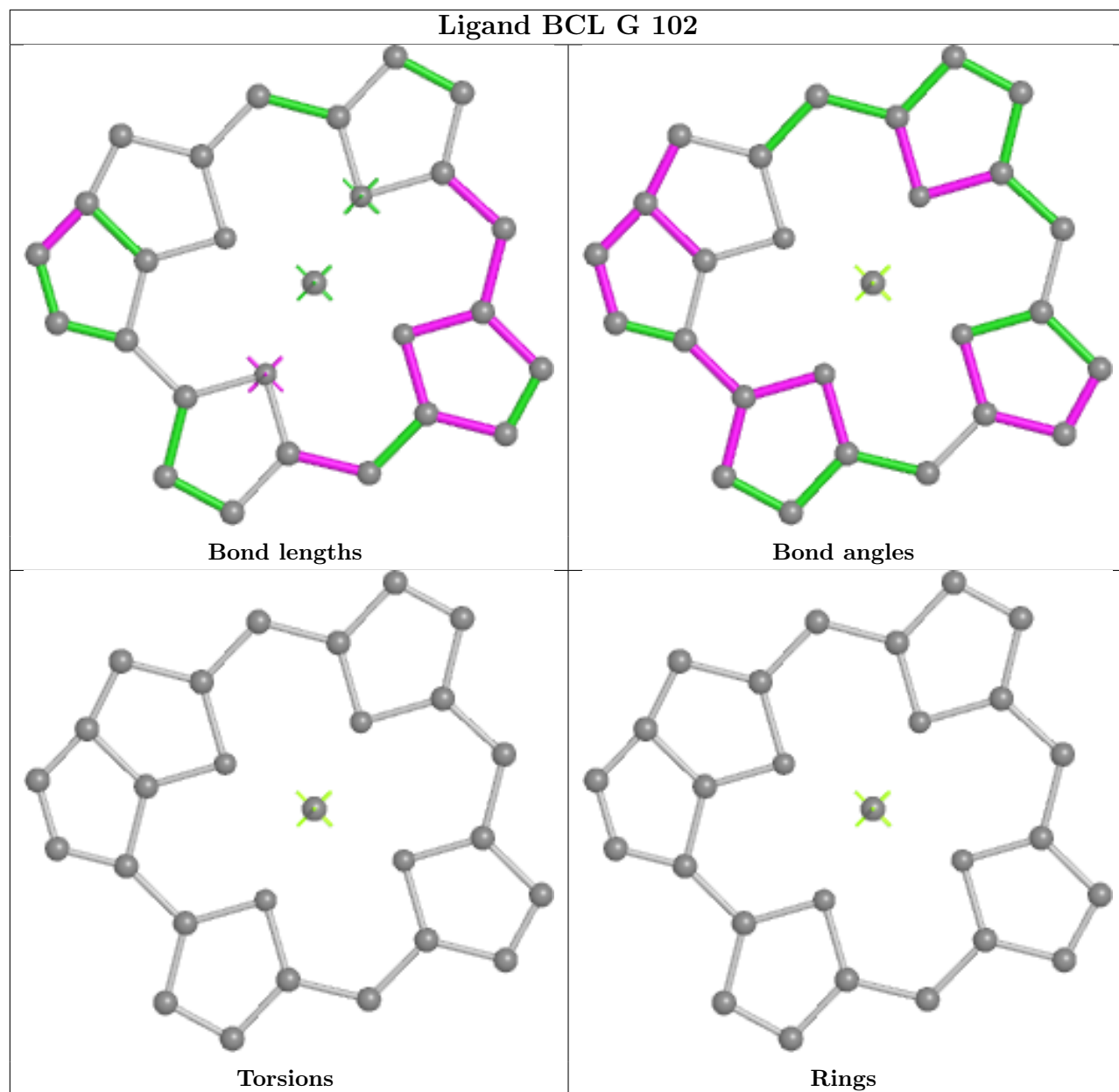


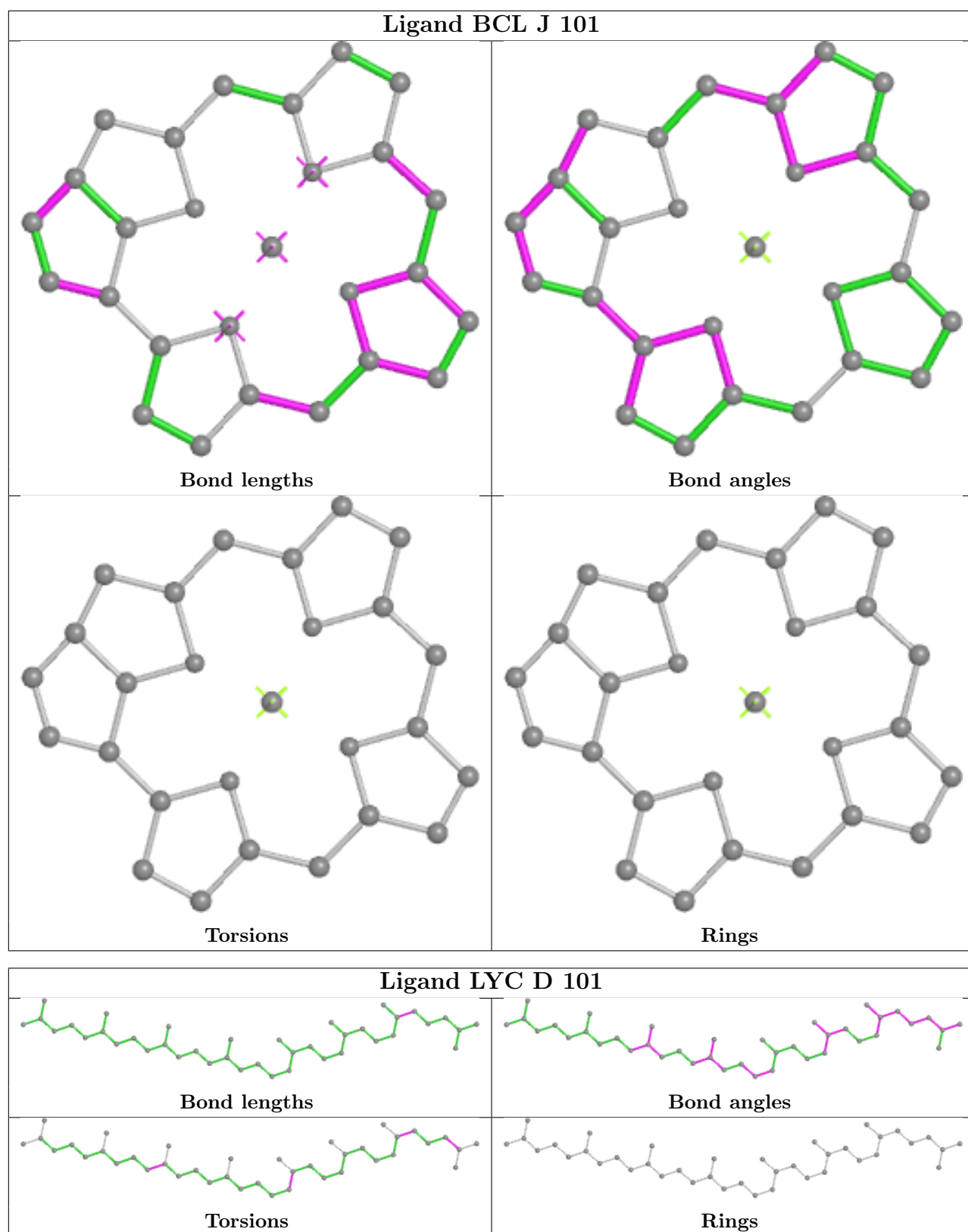


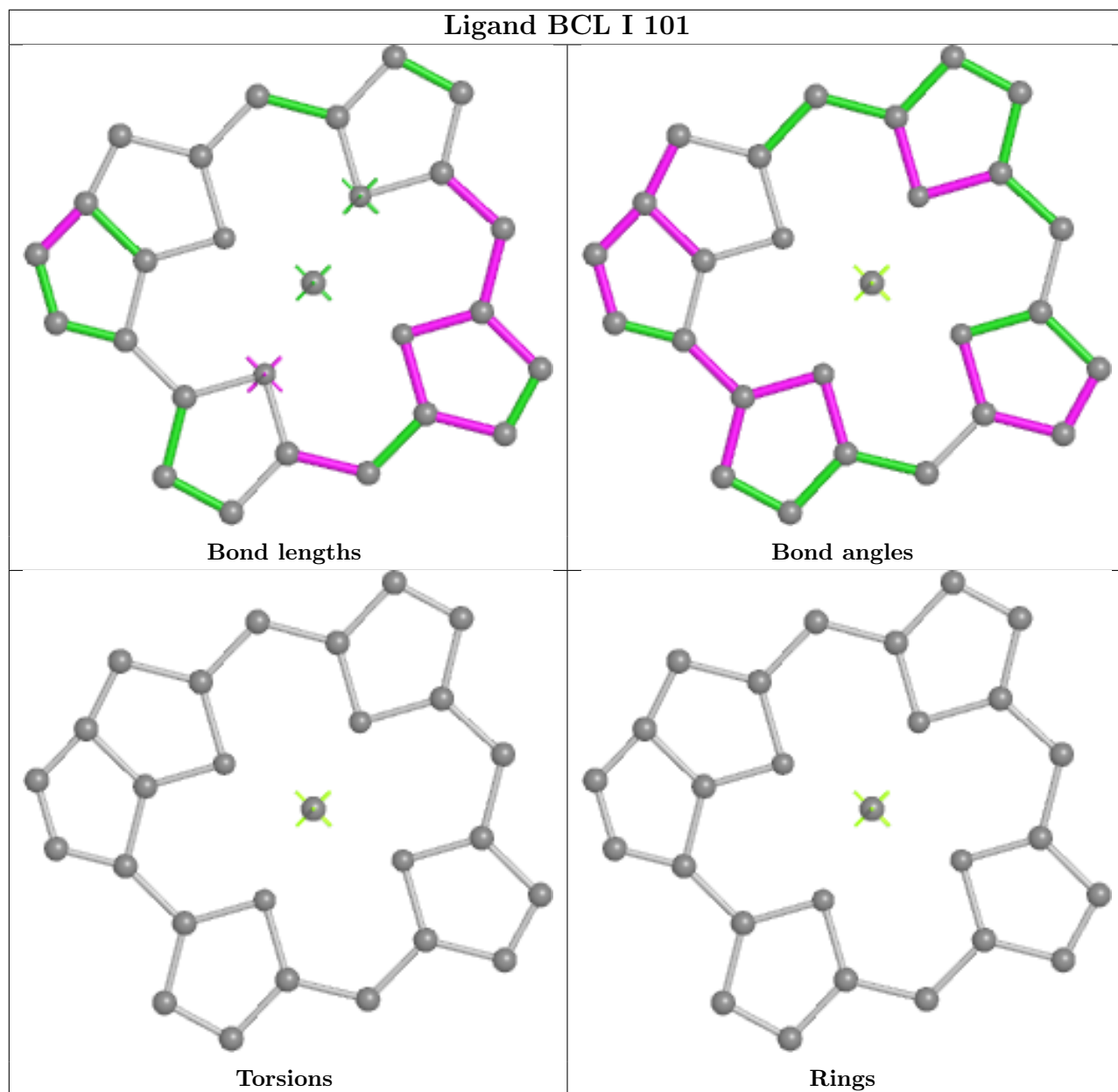


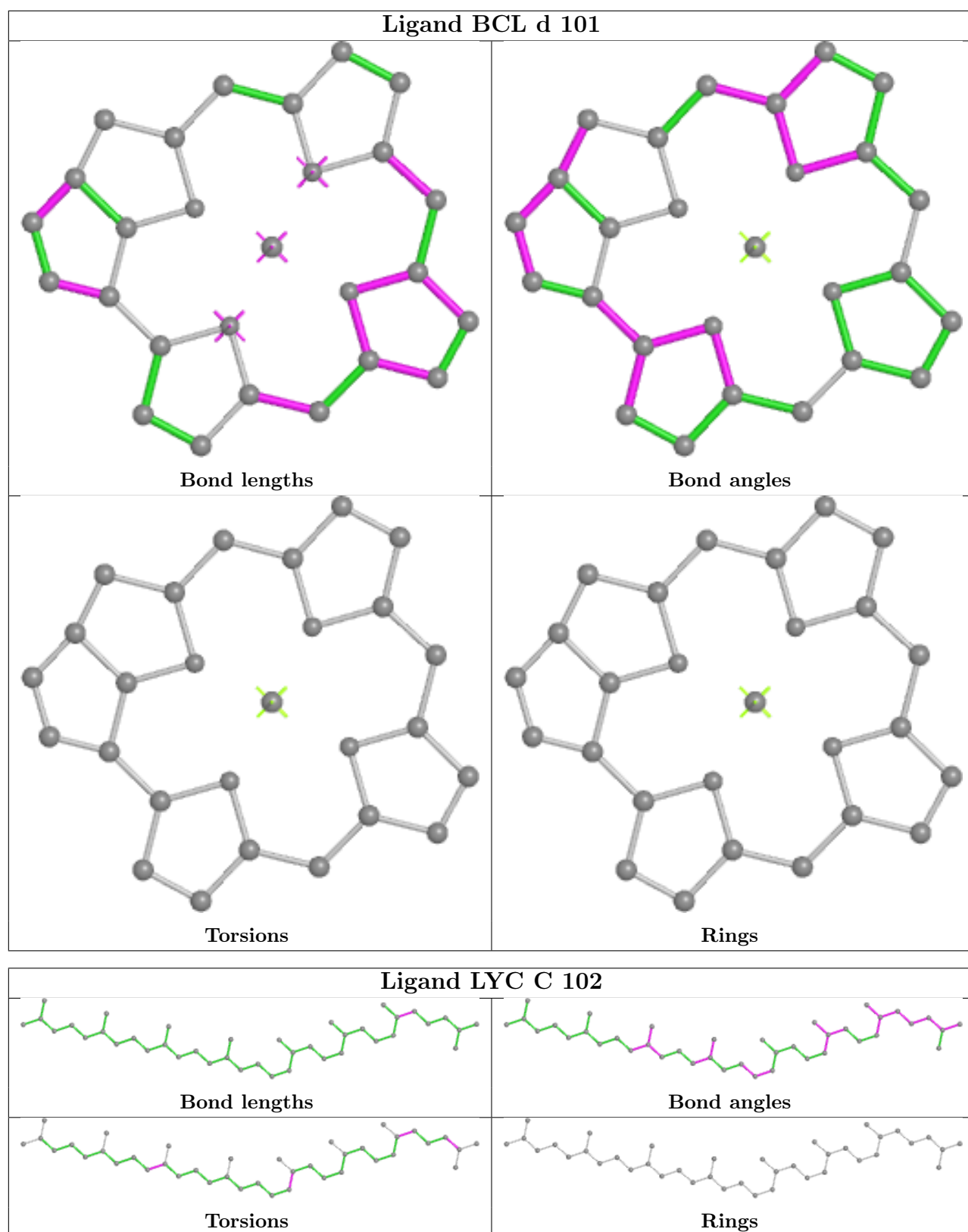


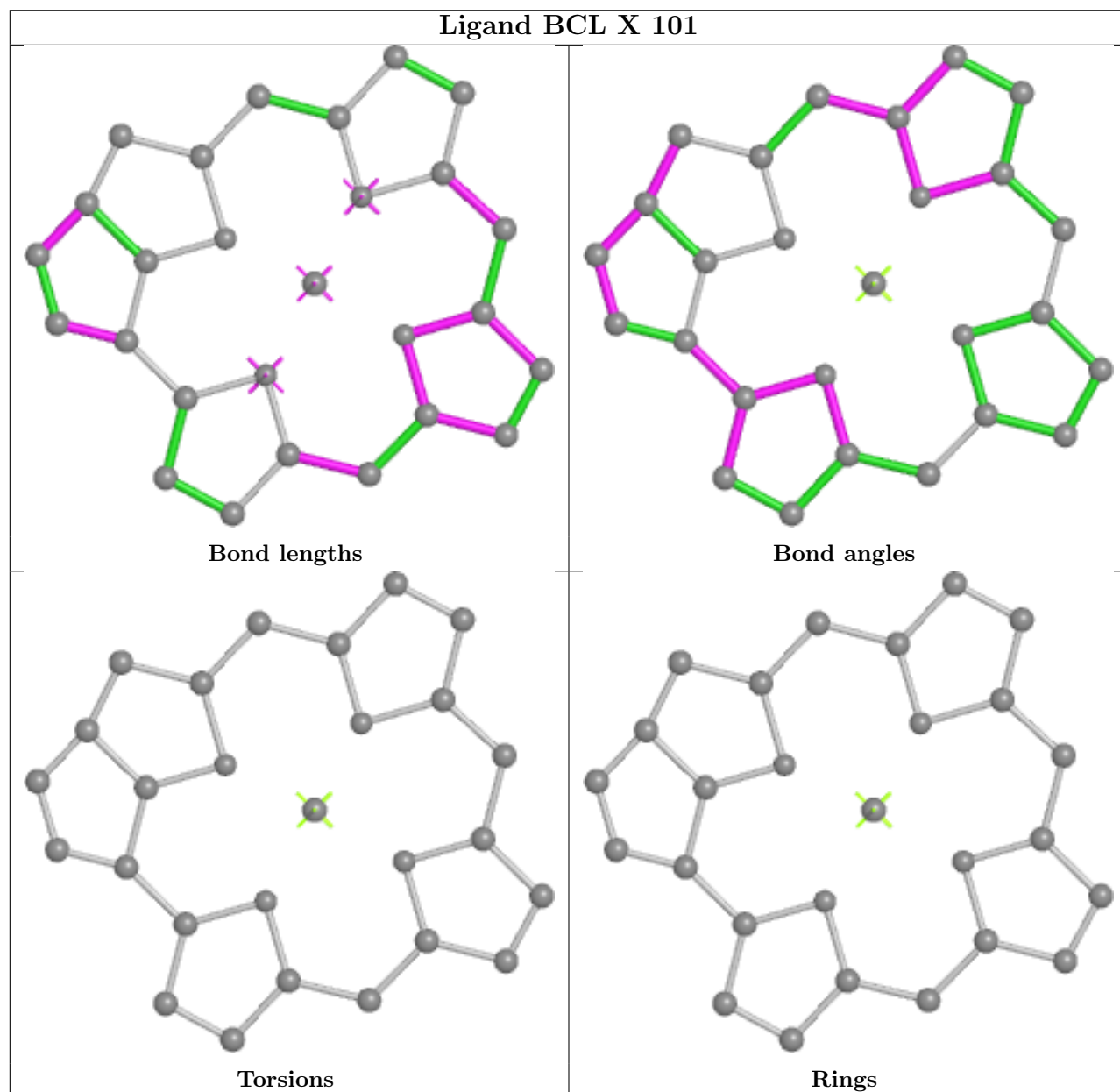
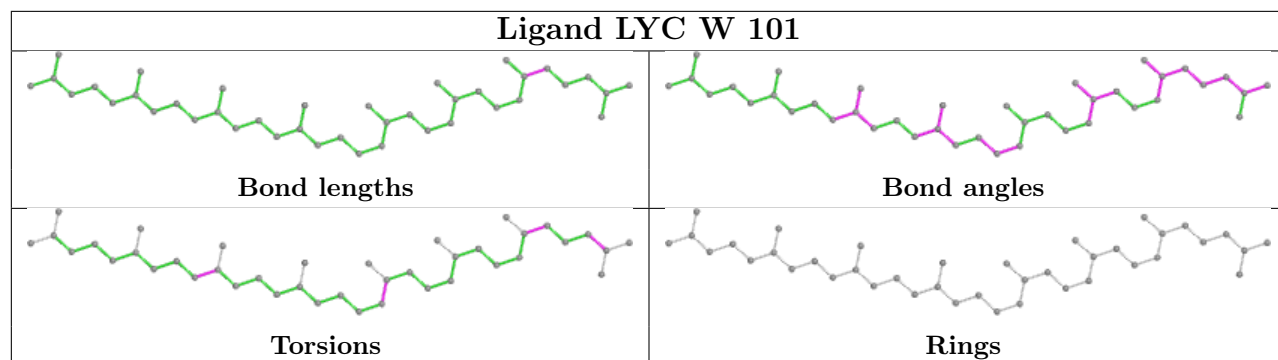


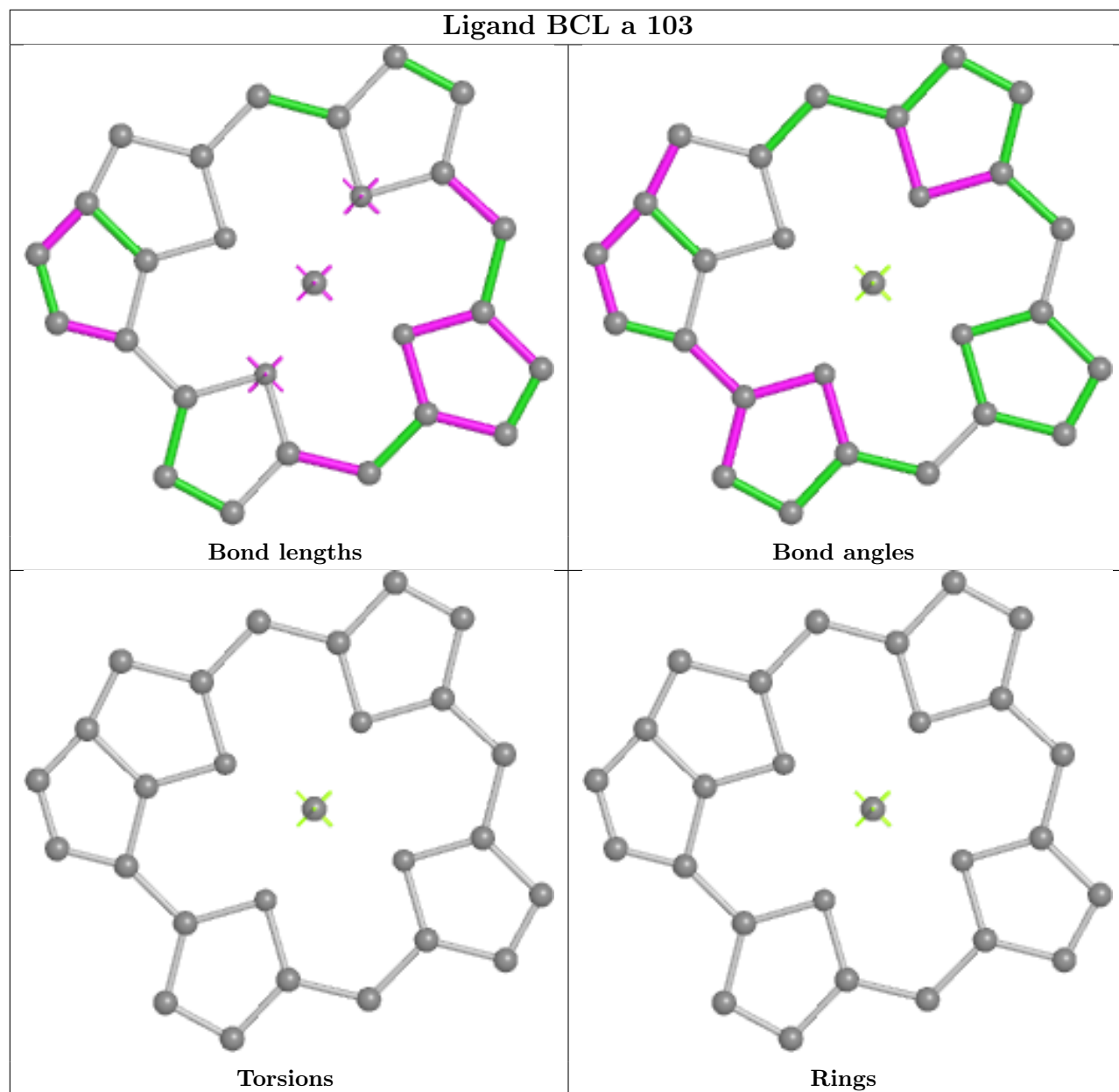


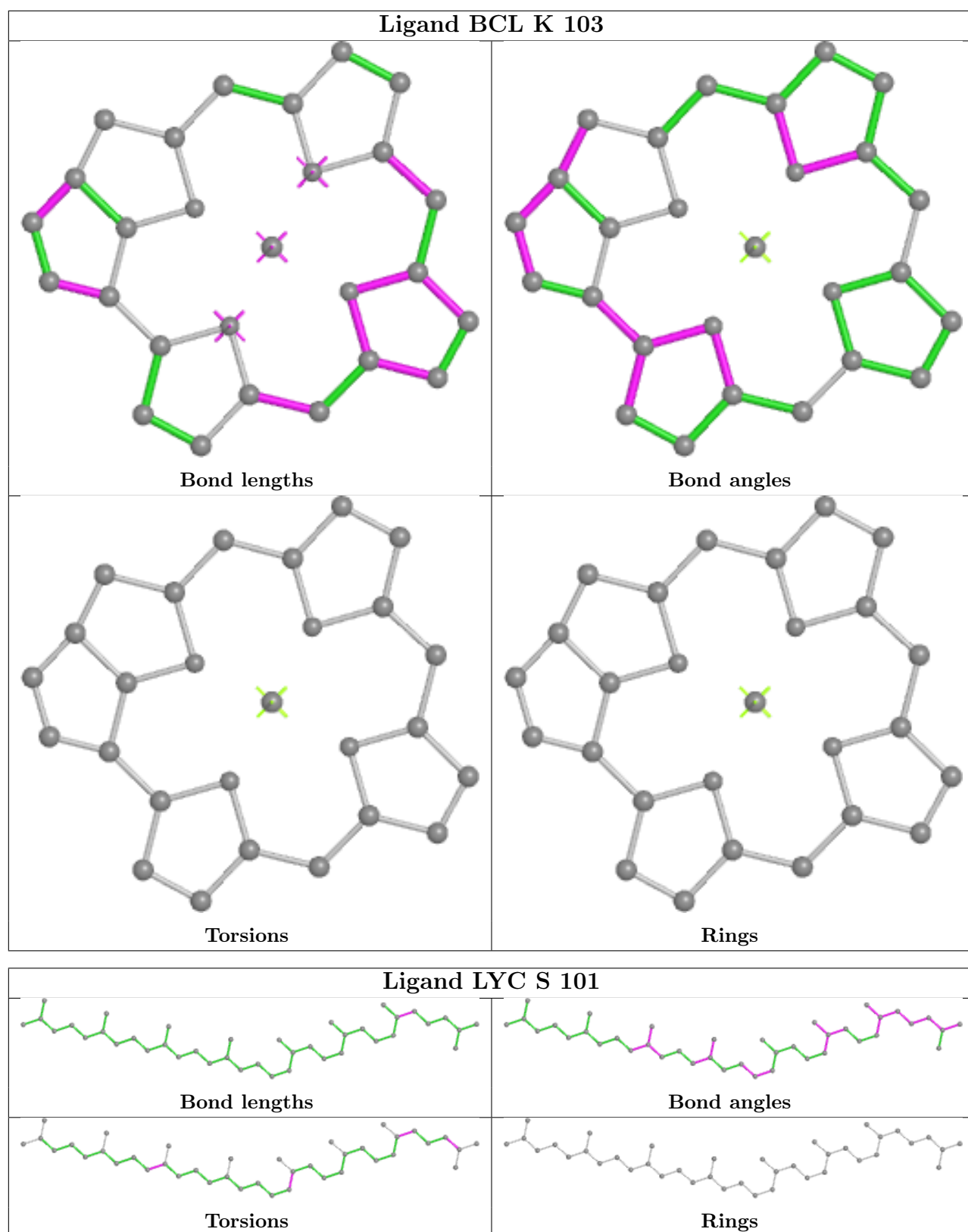


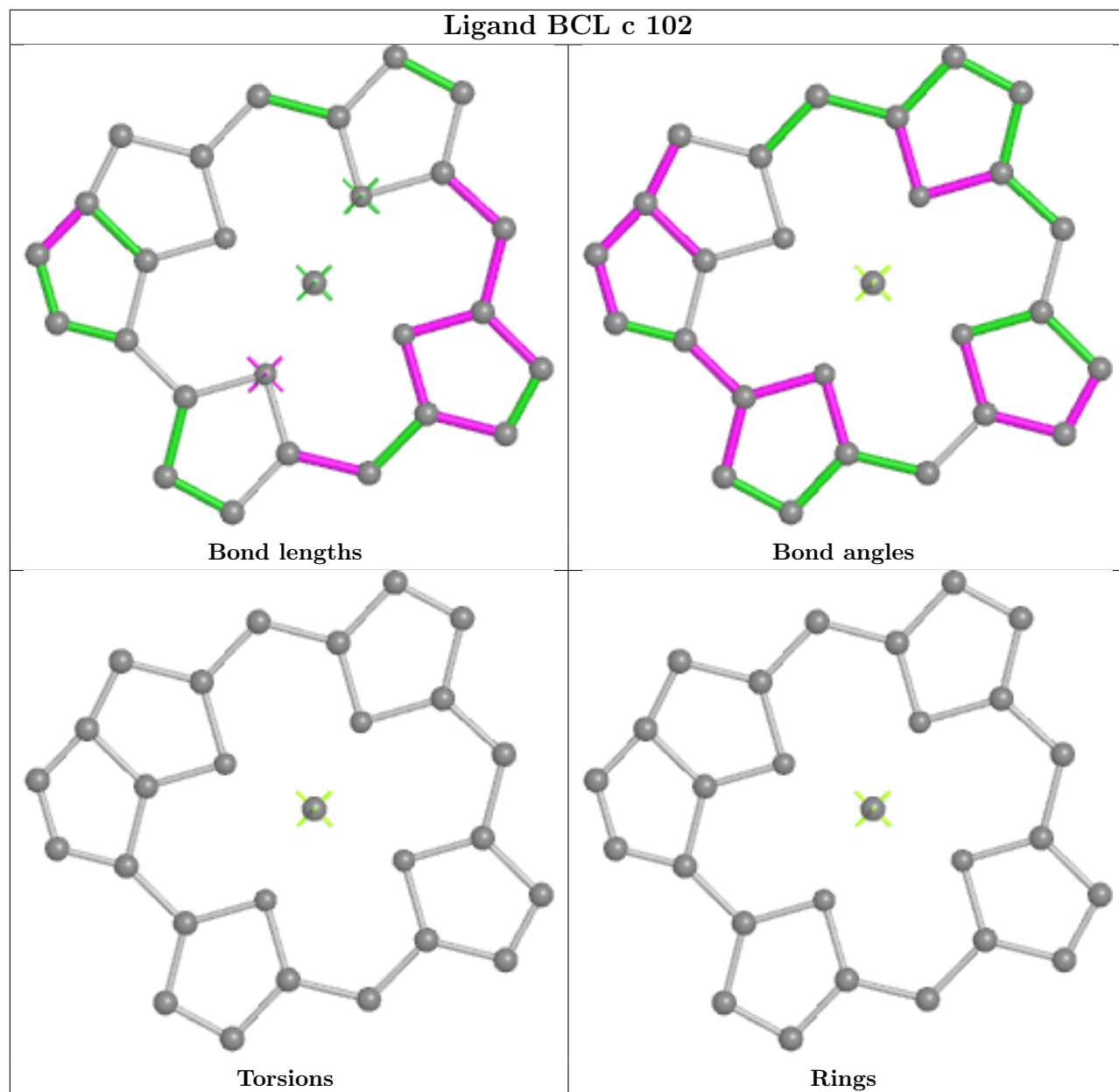


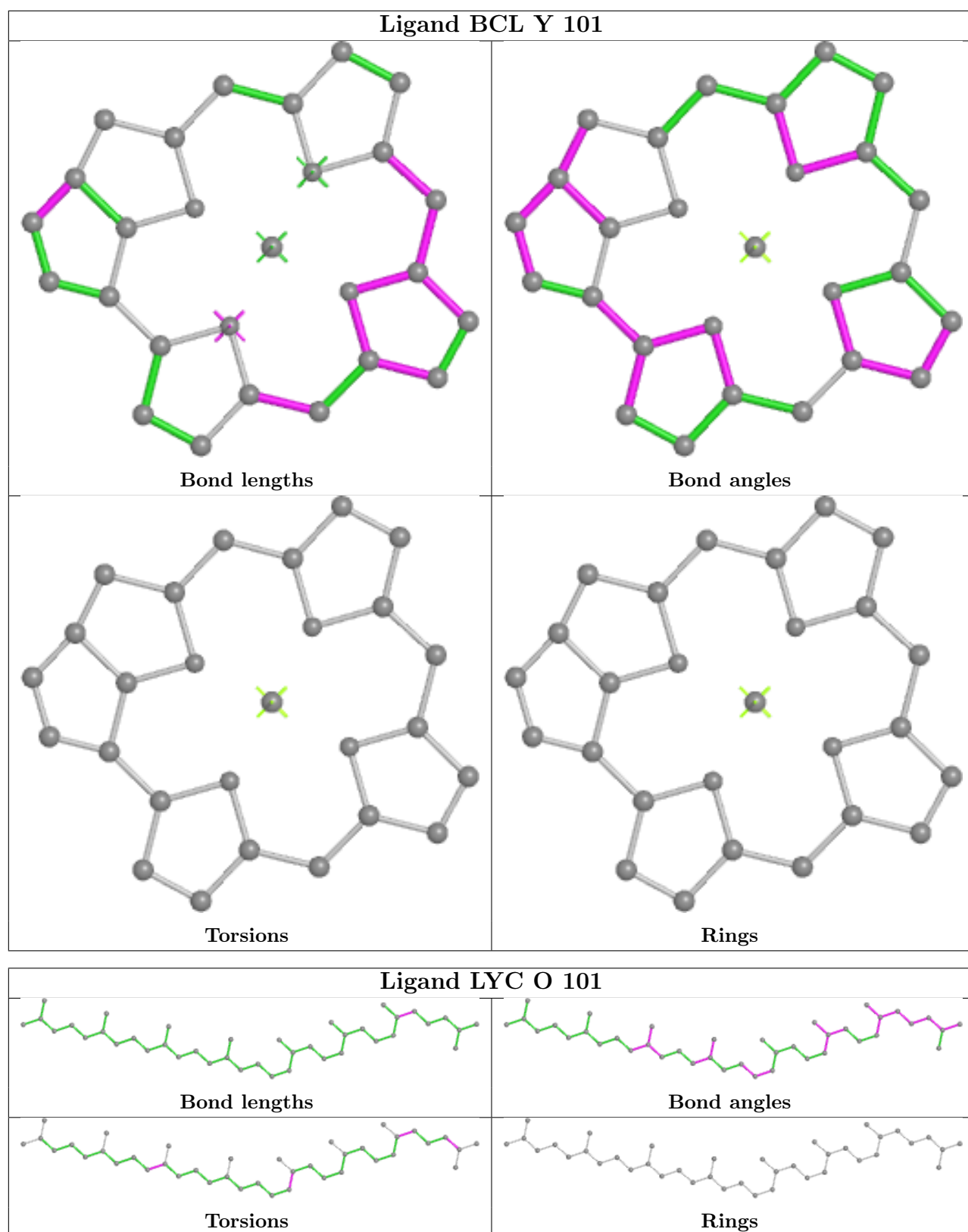


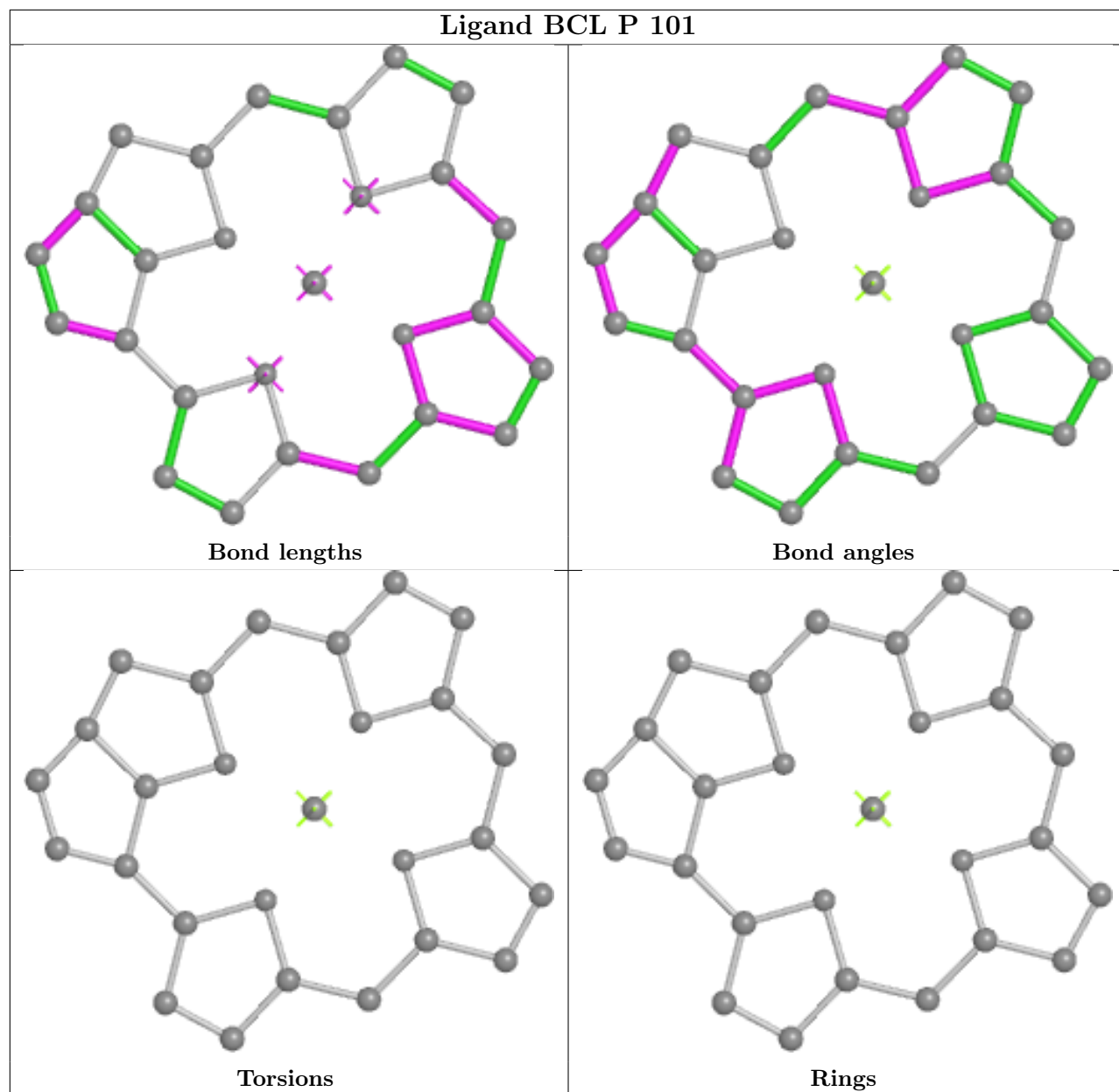


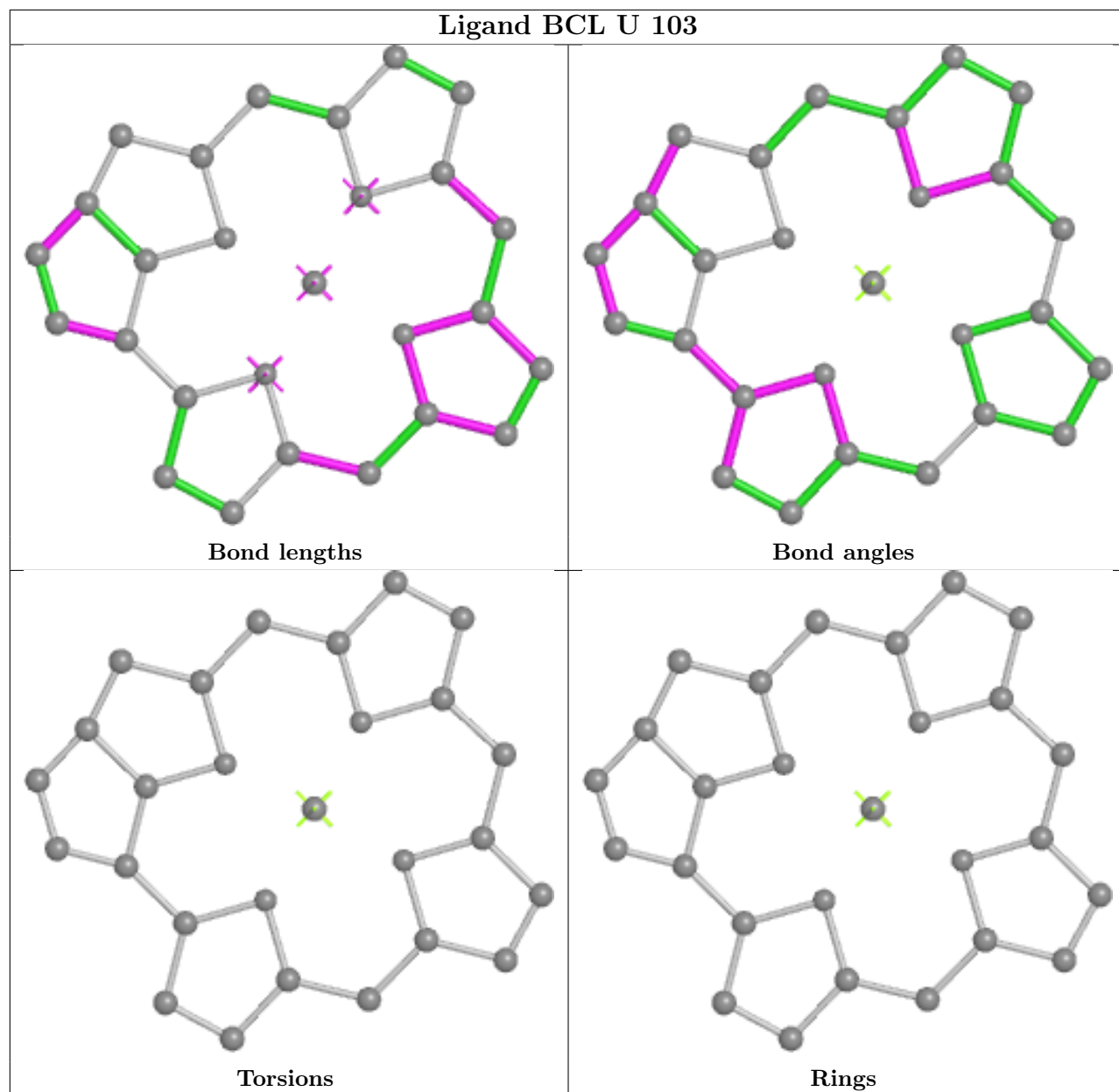


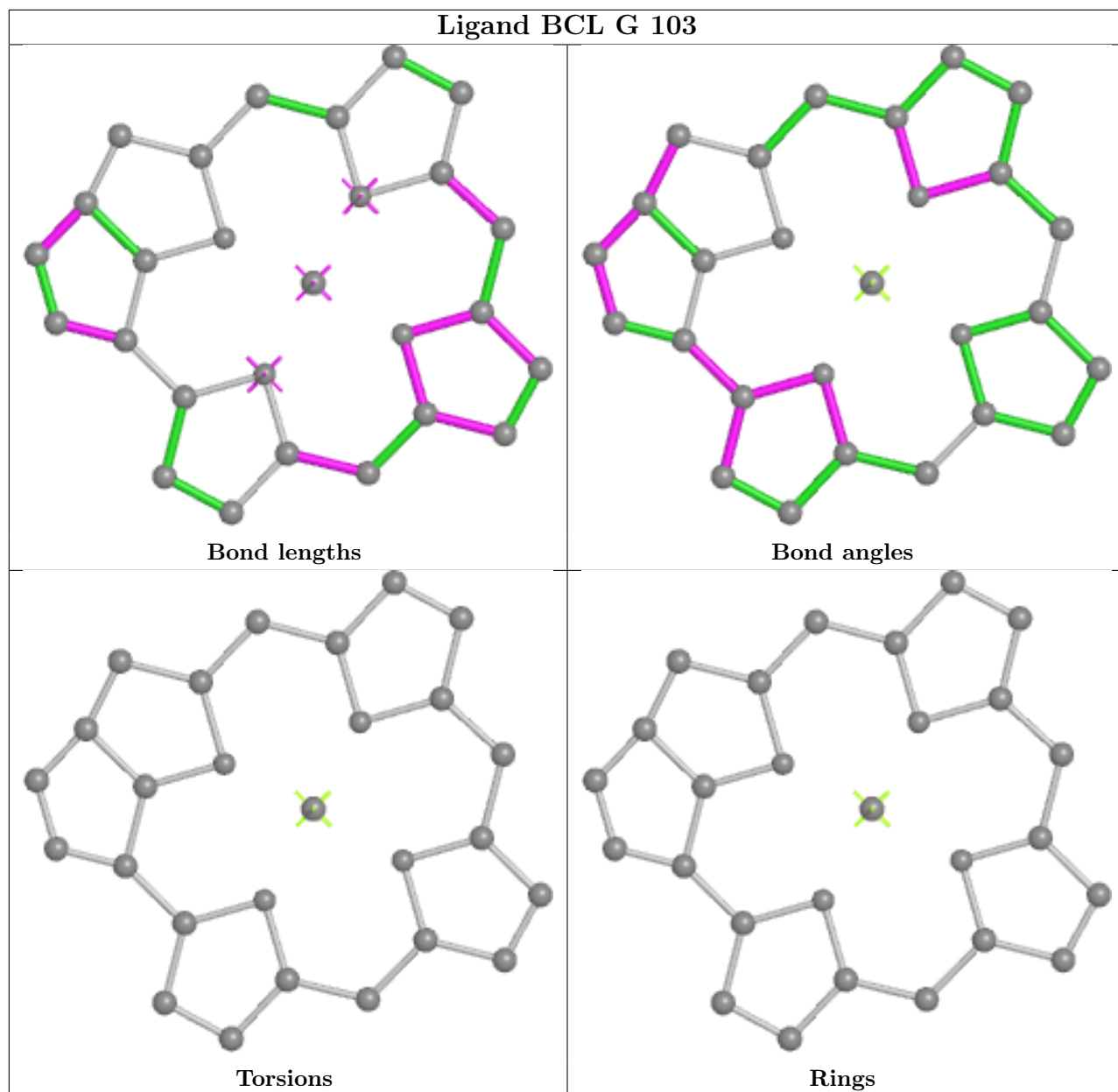


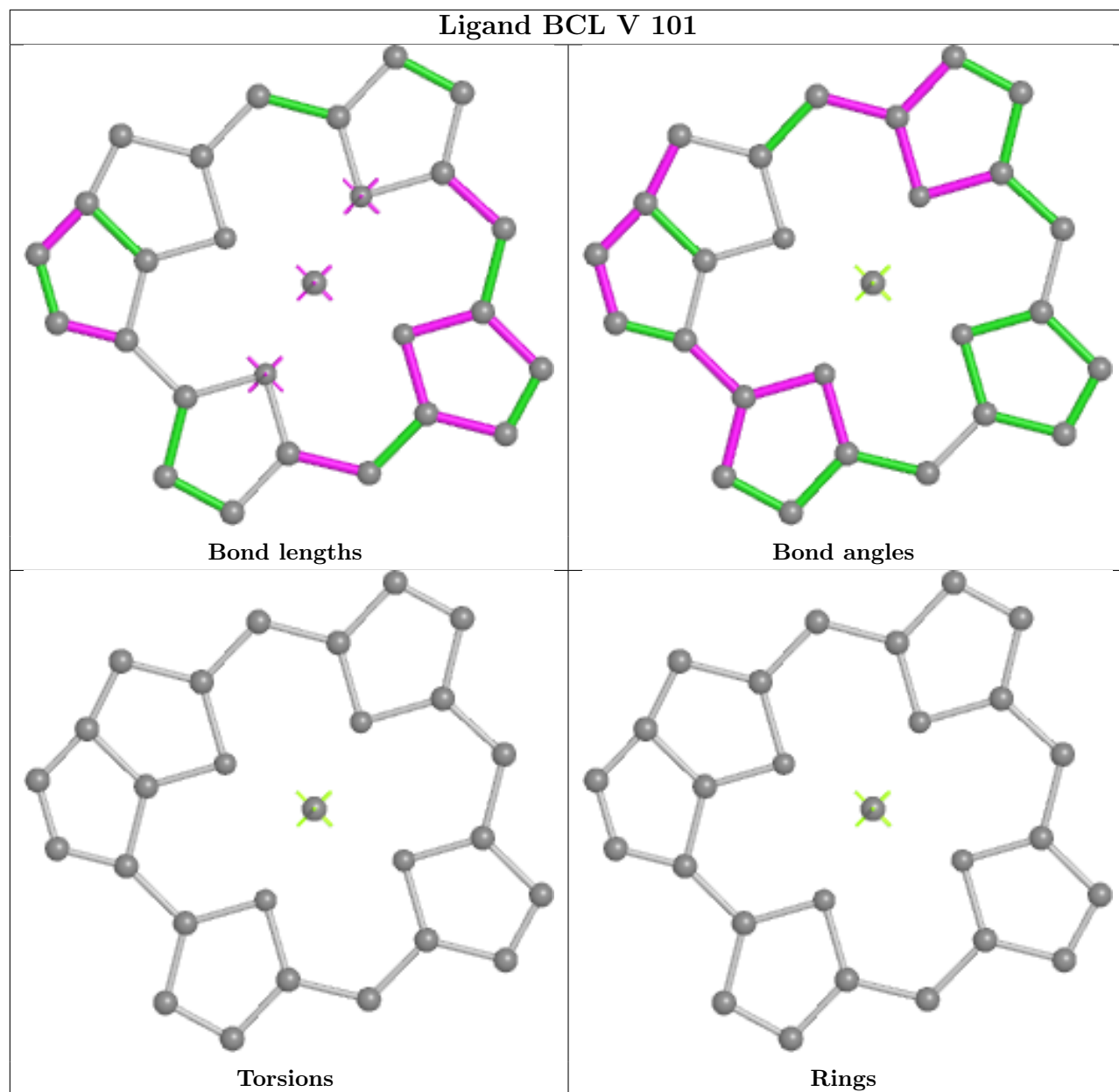


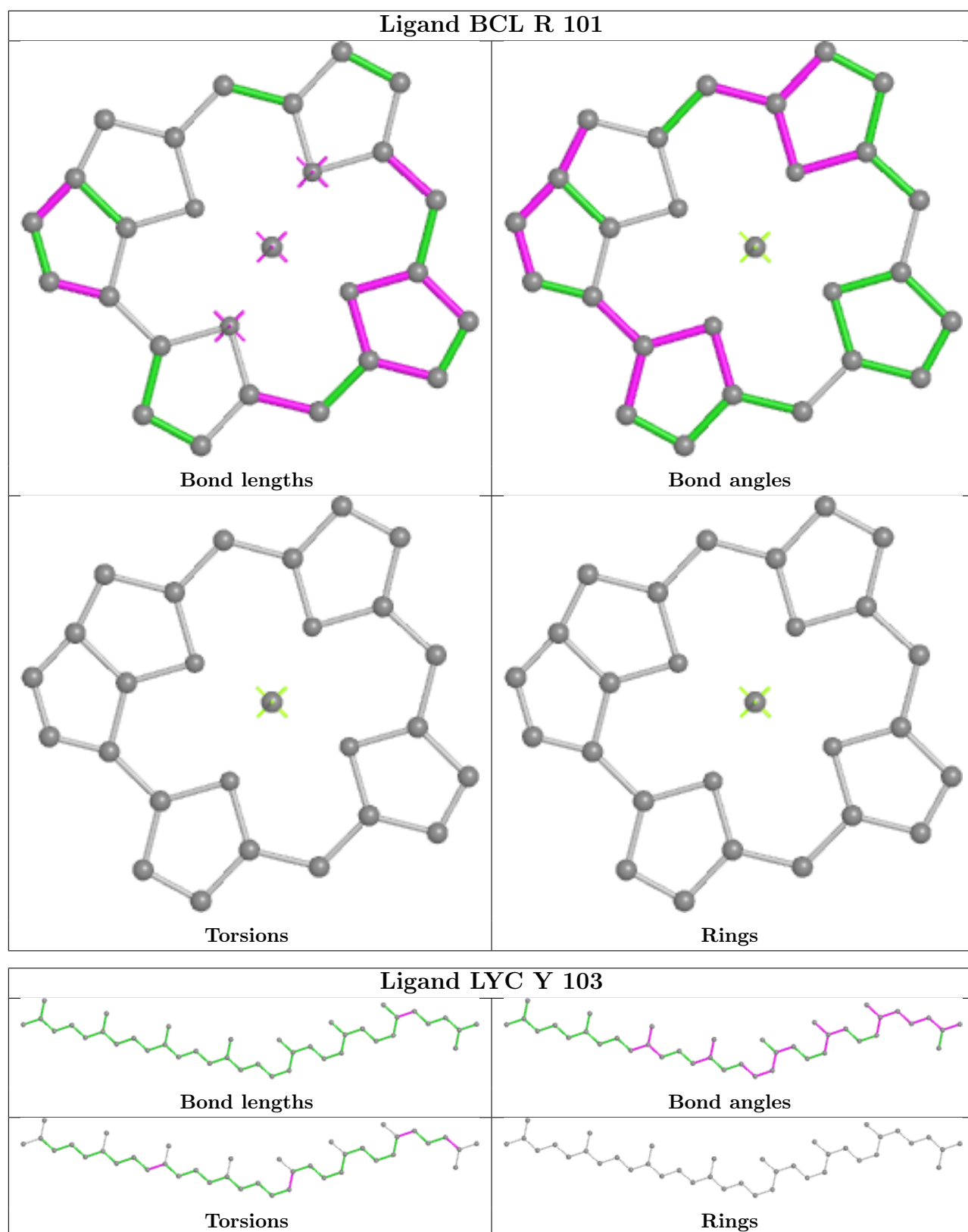


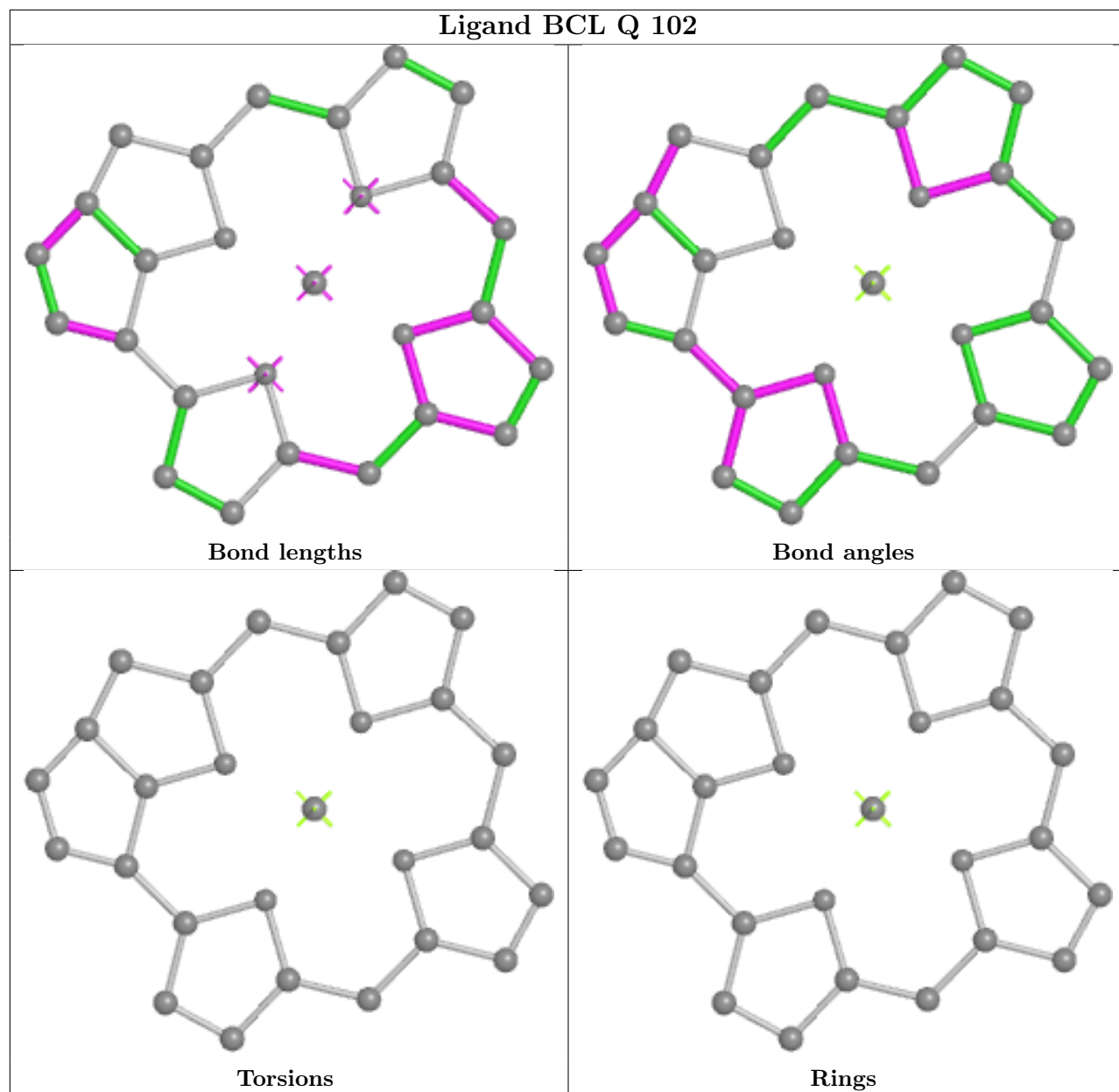


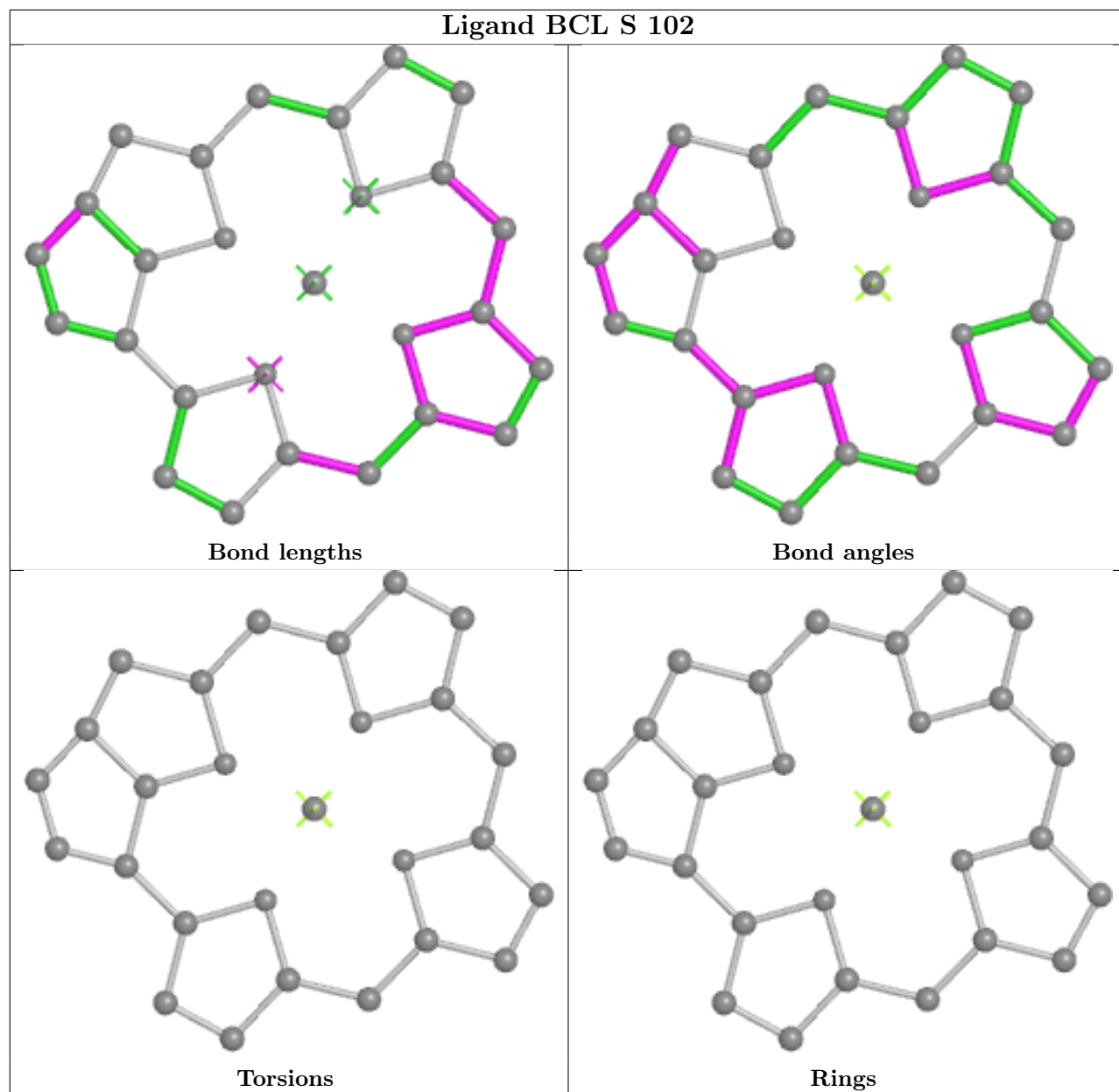


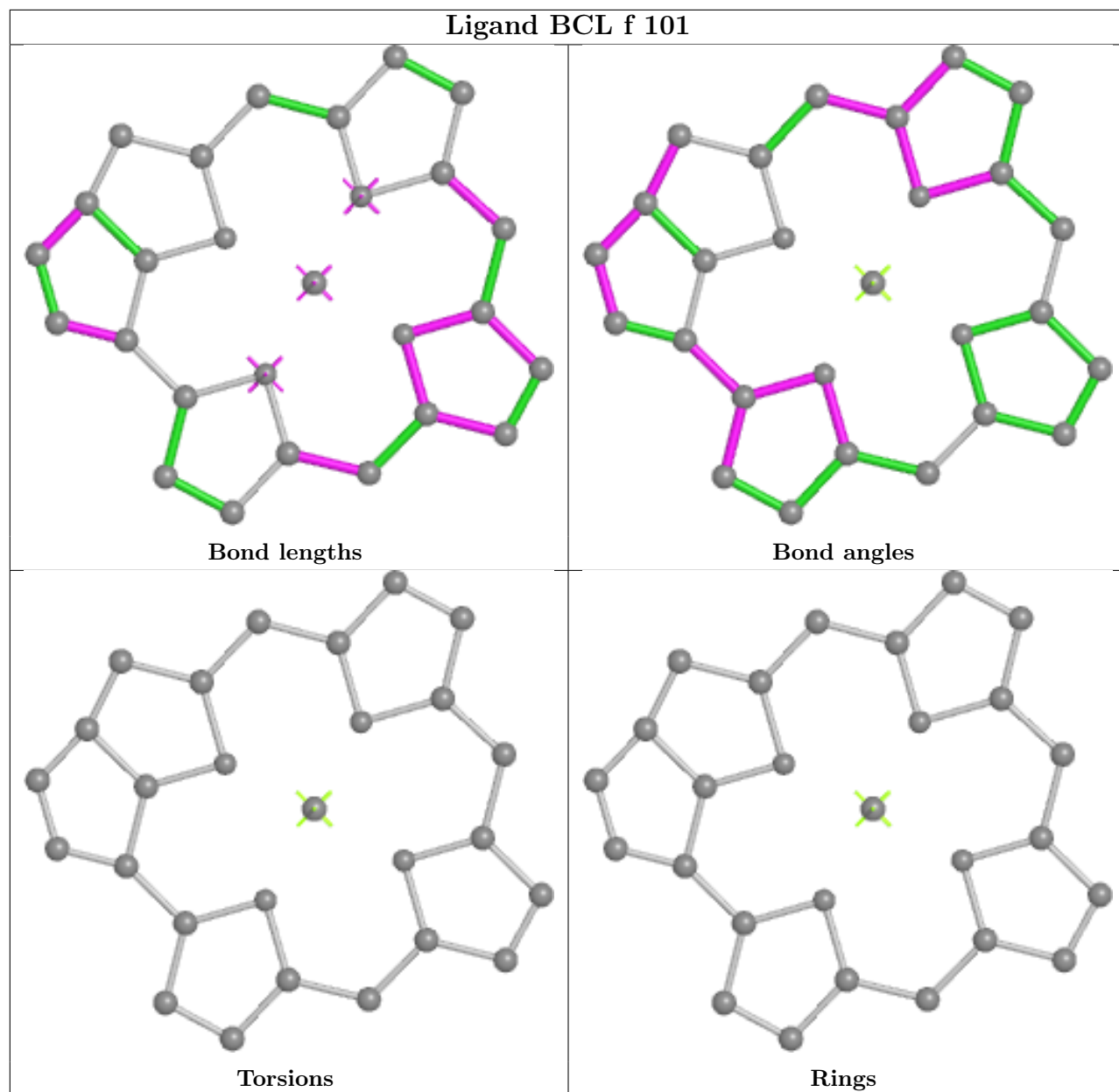


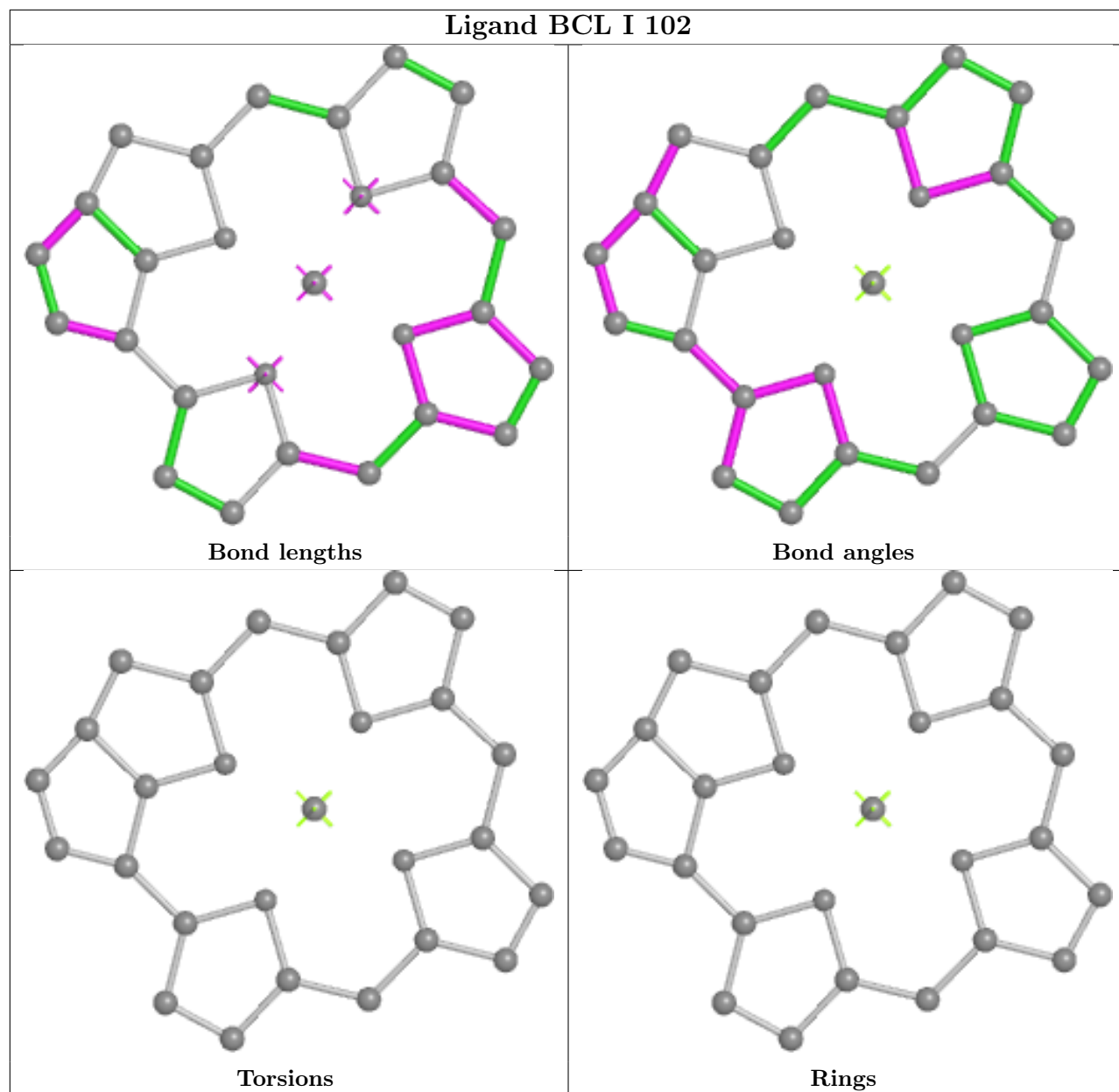


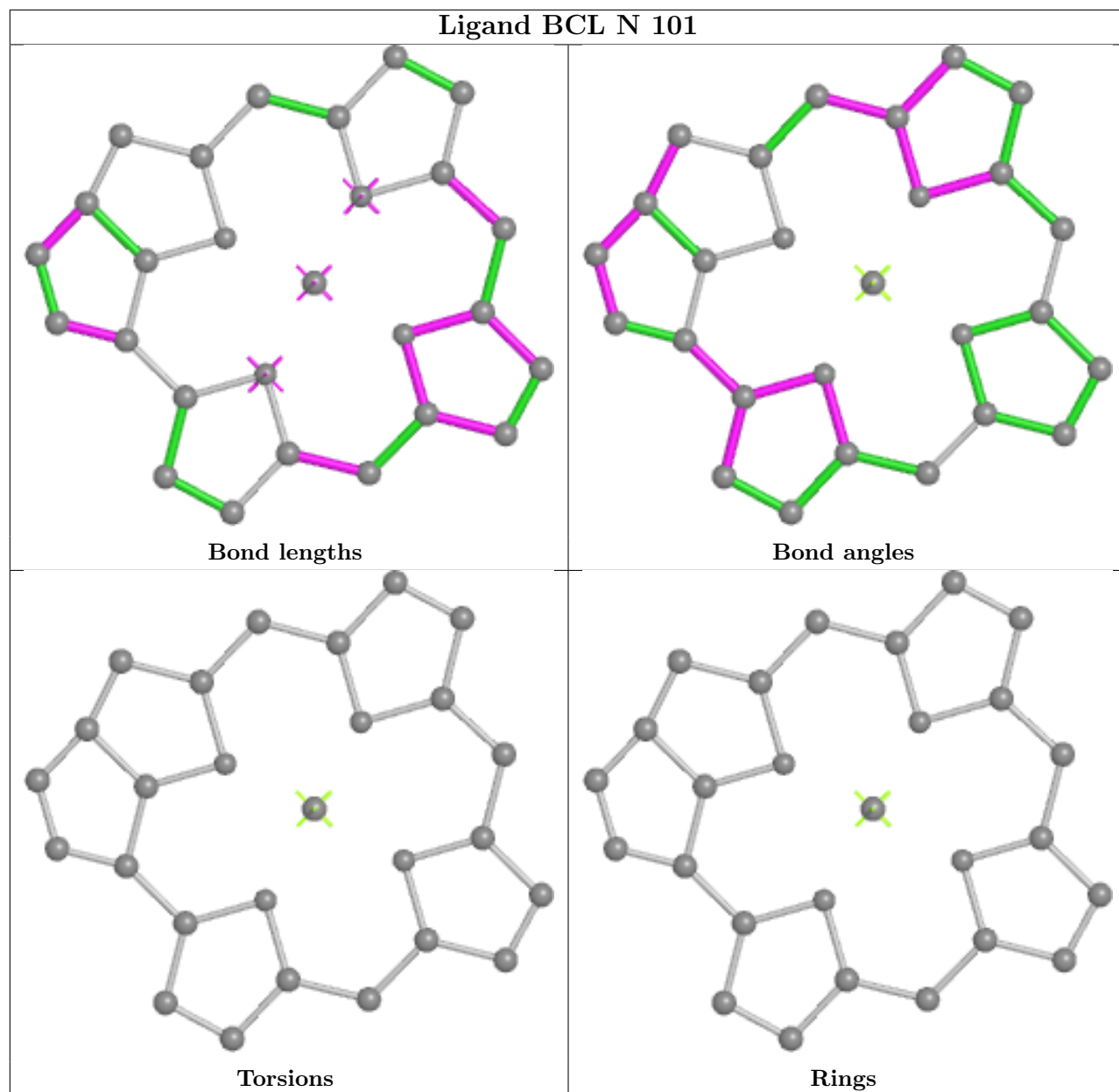


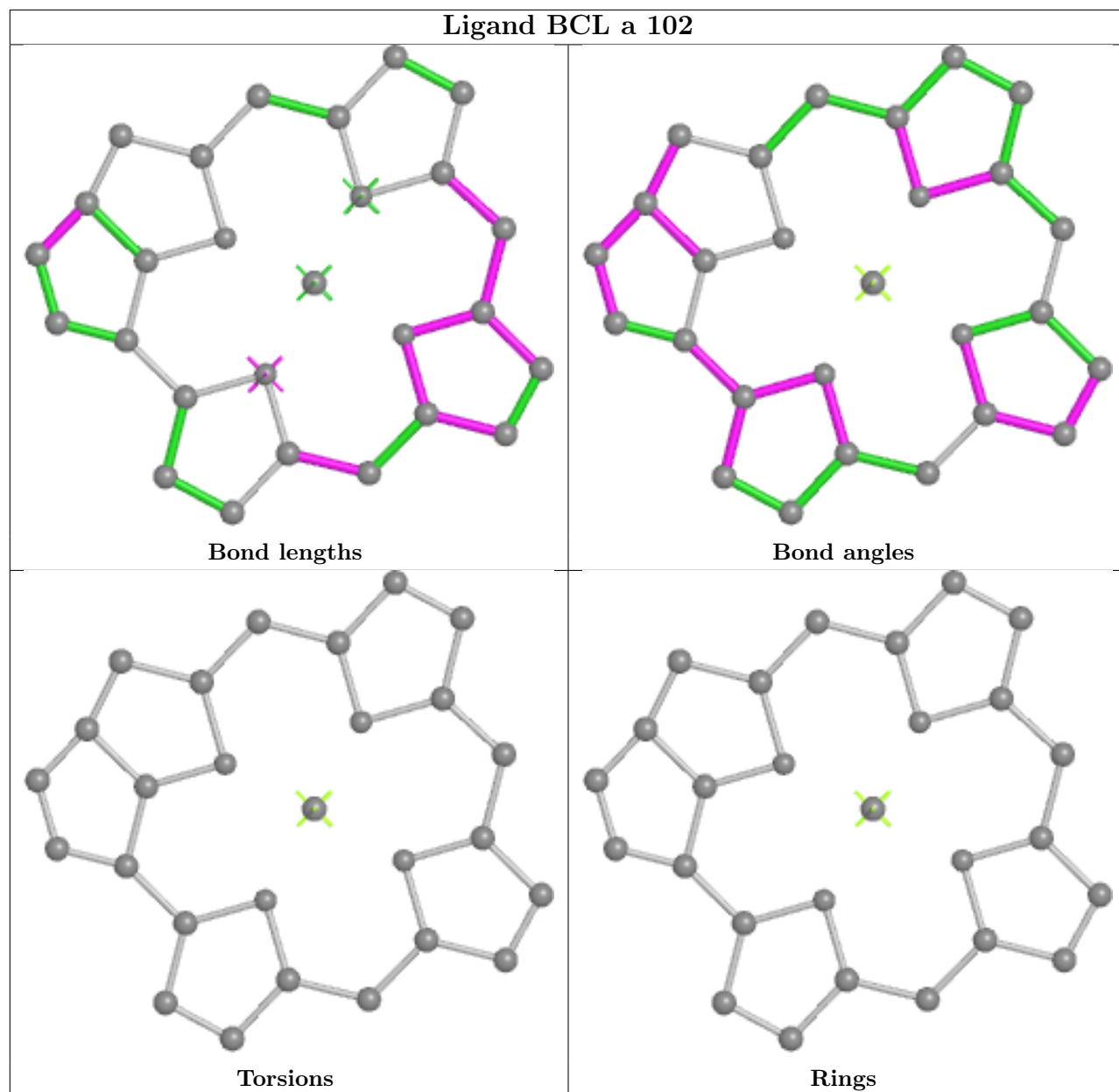


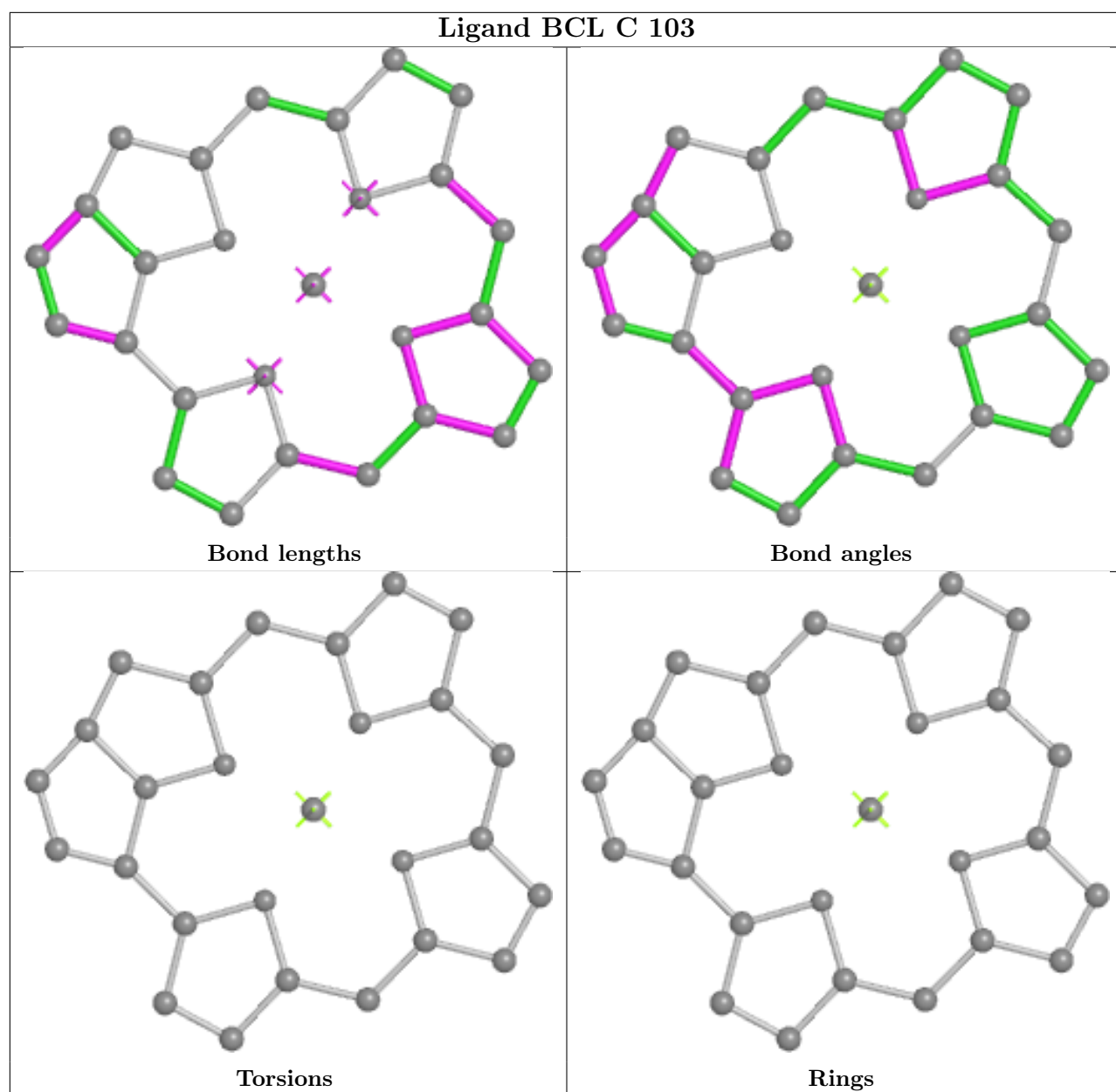












5.7 Other polymers [i](#)

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-26138. 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](#)

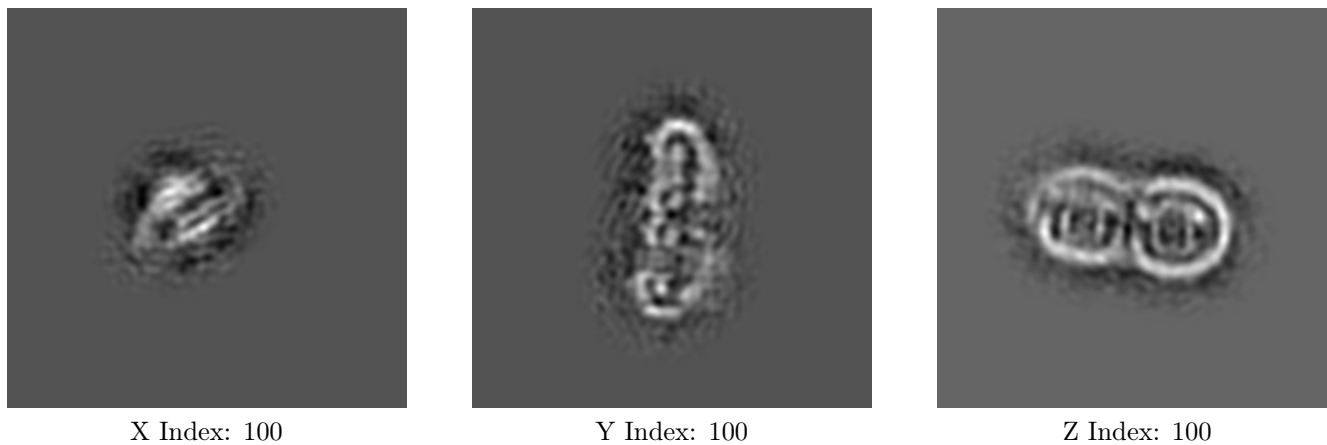
6.1.1 Primary map



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: 134



Y Index: 87

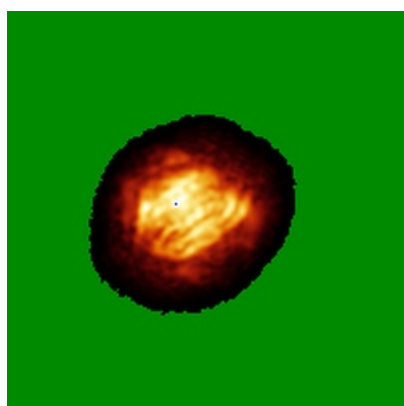


Z Index: 102

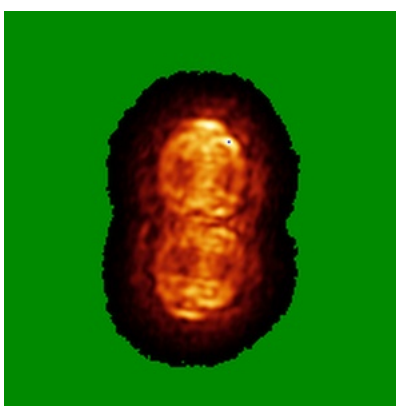
The images above show the largest variance slices of the map in three orthogonal directions.

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

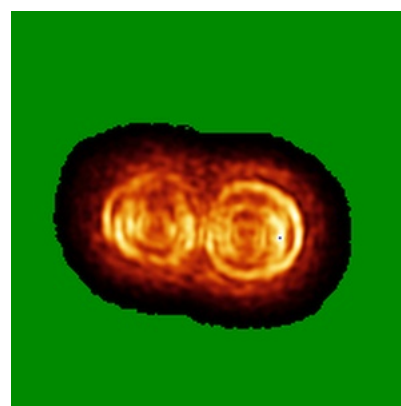
6.4.1 Primary map



X



Y

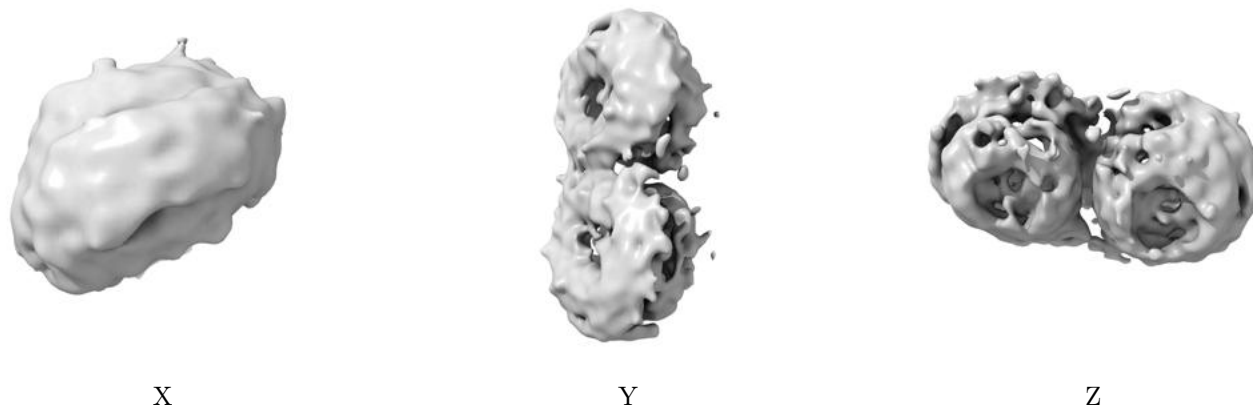


Z

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 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

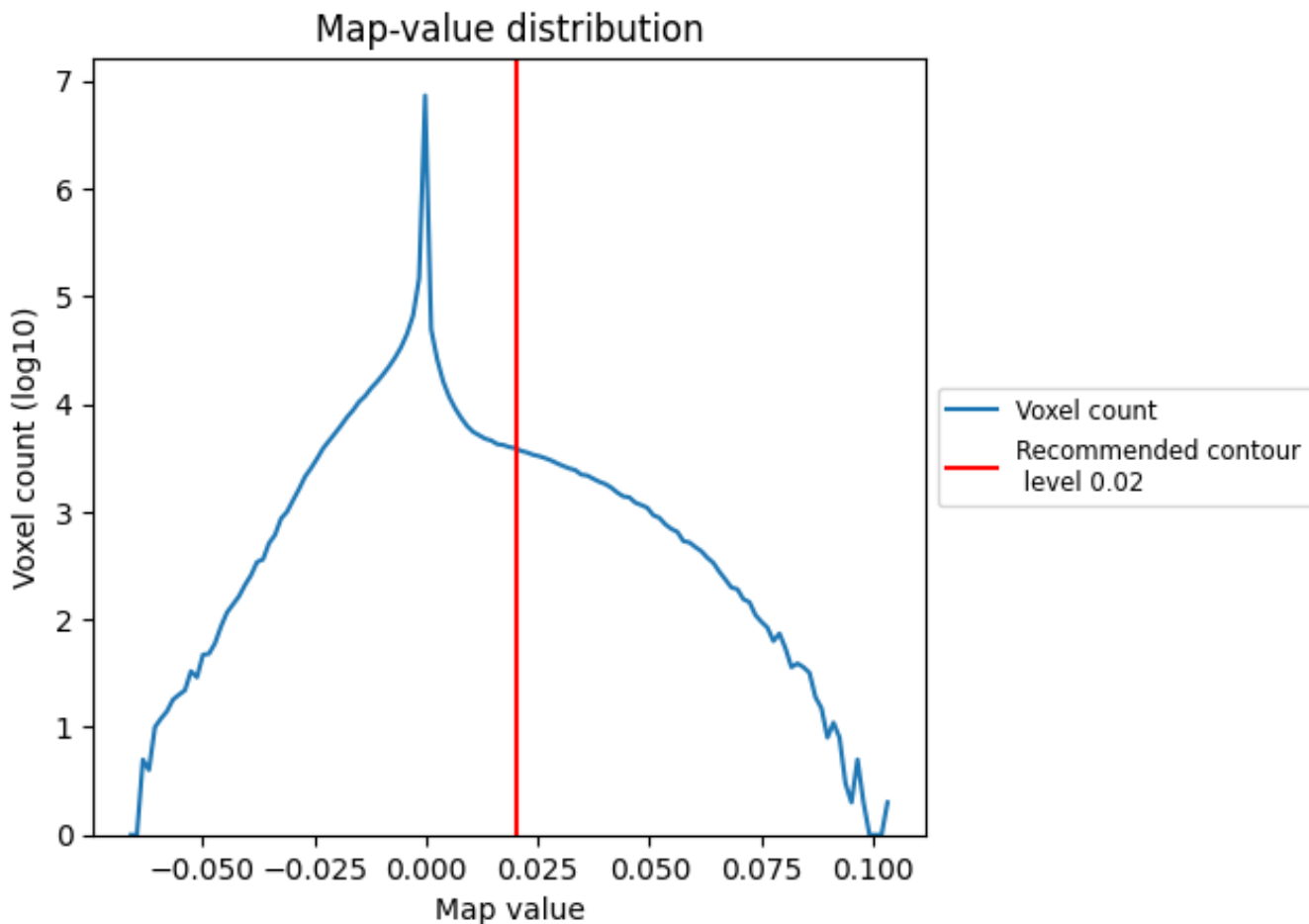
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

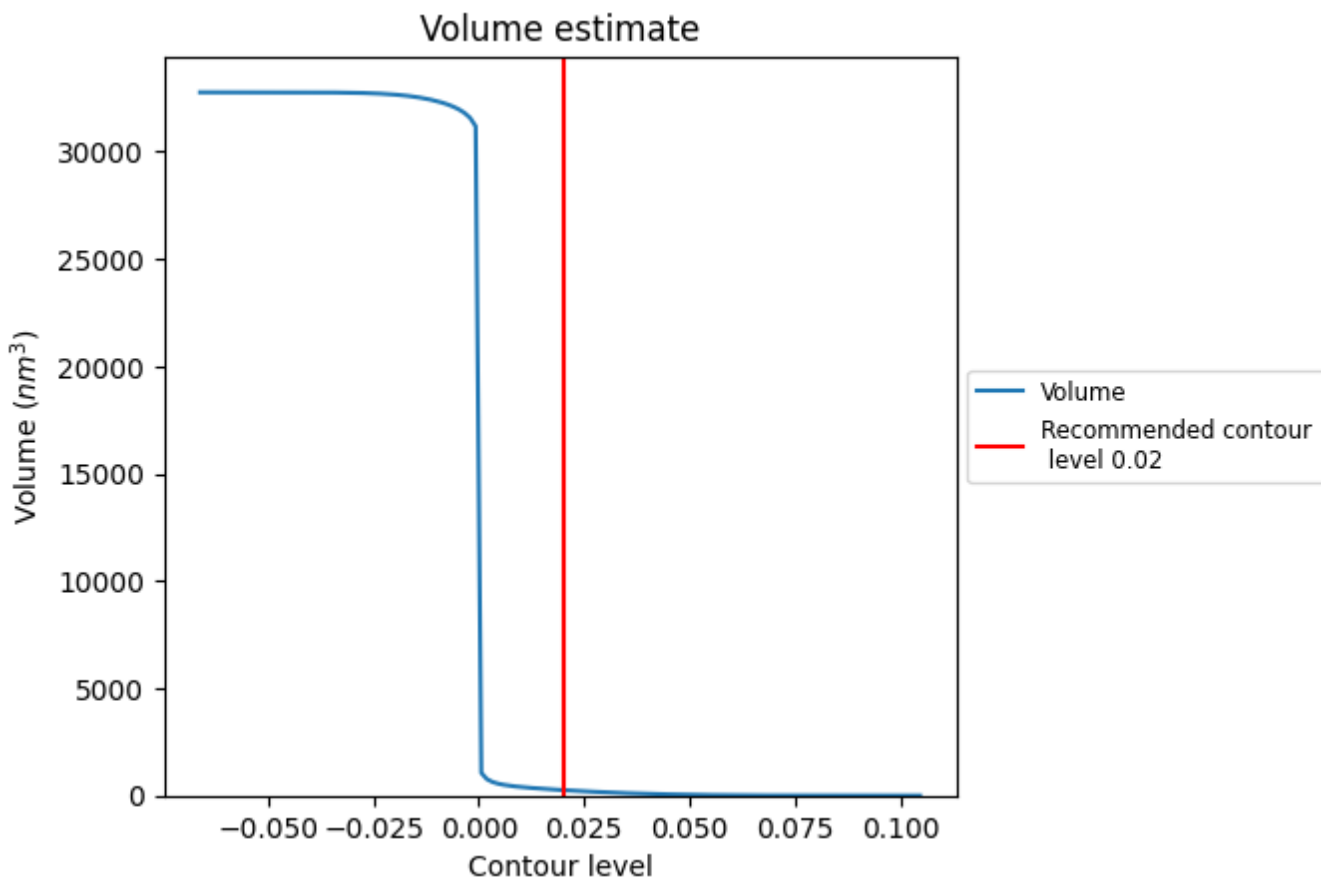
This section contains the results of statistical analysis of the map.

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.

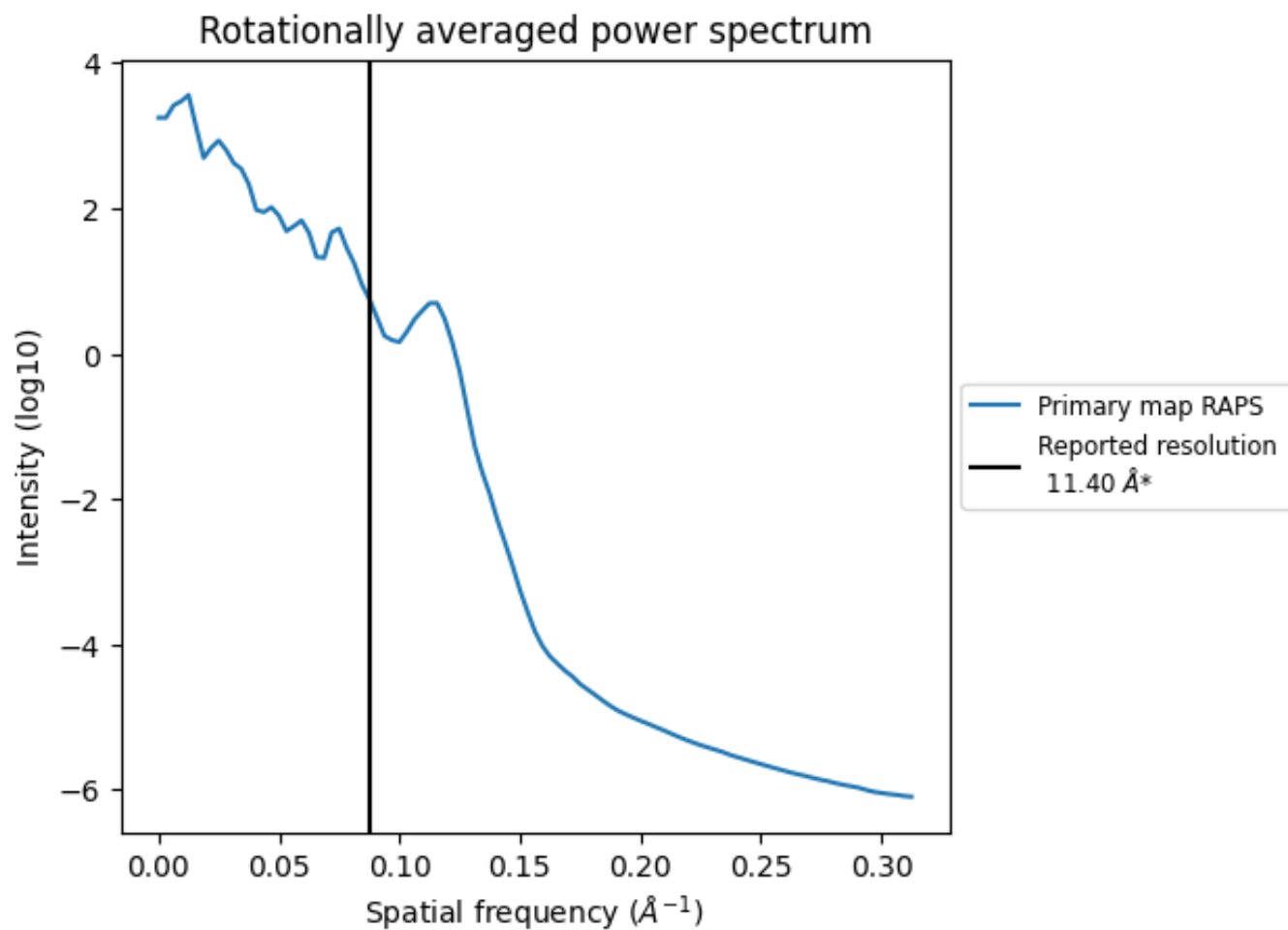
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 254 nm^3 ; this corresponds to an approximate mass of 230 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](#)

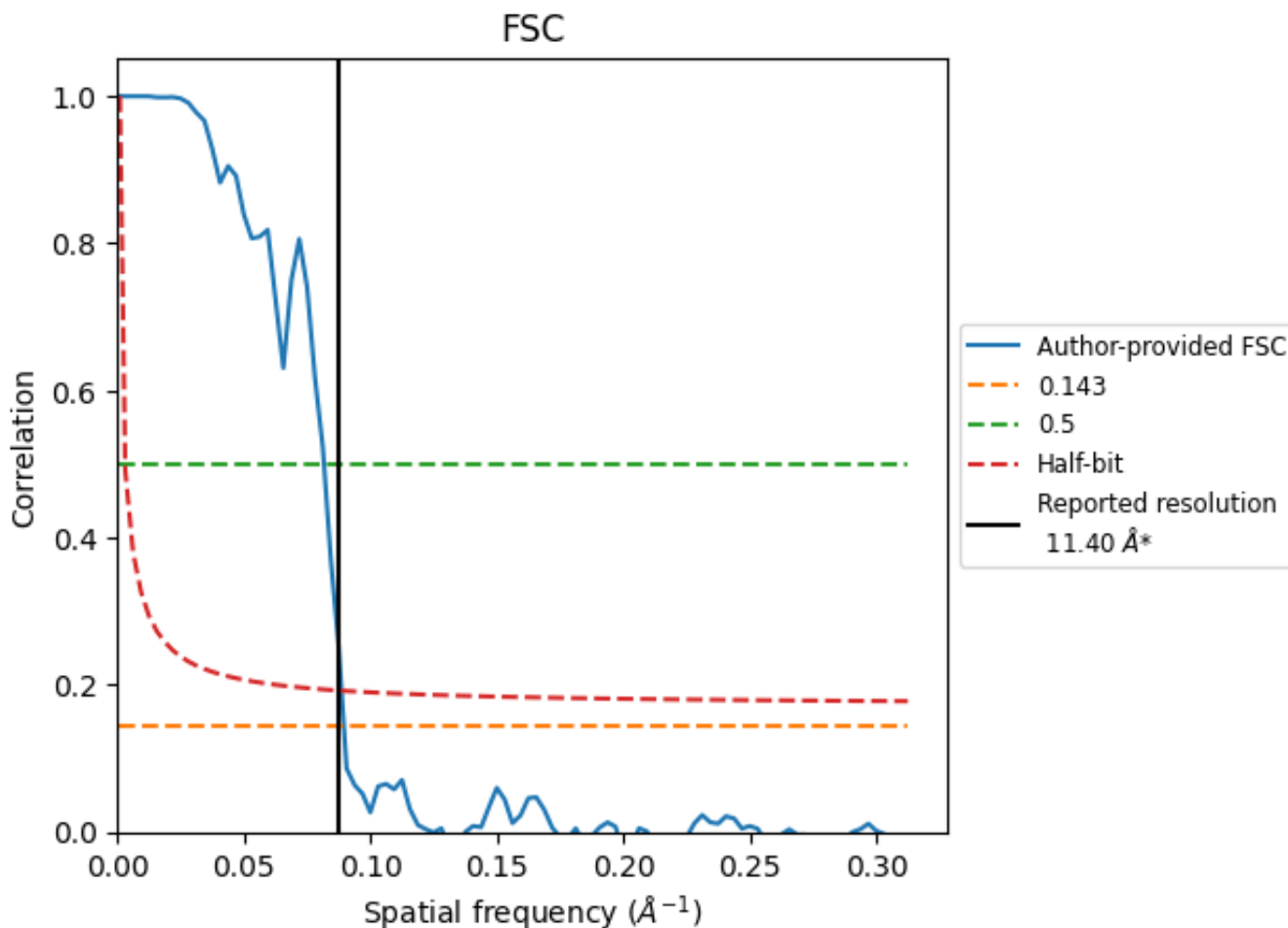


*Reported resolution corresponds to spatial frequency of 0.088\AA^{-1}

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 0.088 Å⁻¹

8.2 Resolution estimates [i](#)

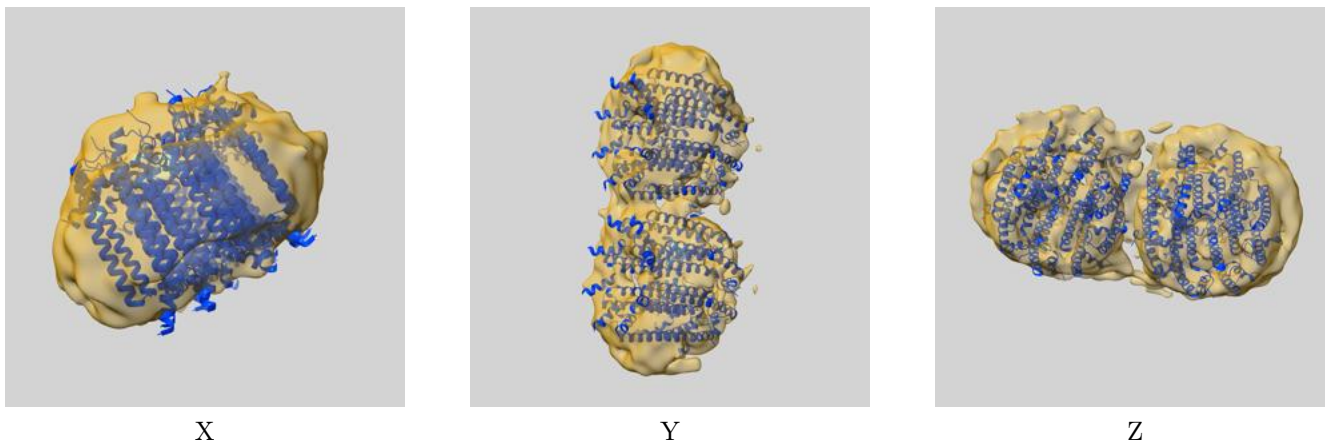
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	11.40	-	-
Author-provided FSC curve	11.17	12.24	11.29
Unmasked-calculated*	-	-	-

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

9 Map-model fit [i](#)

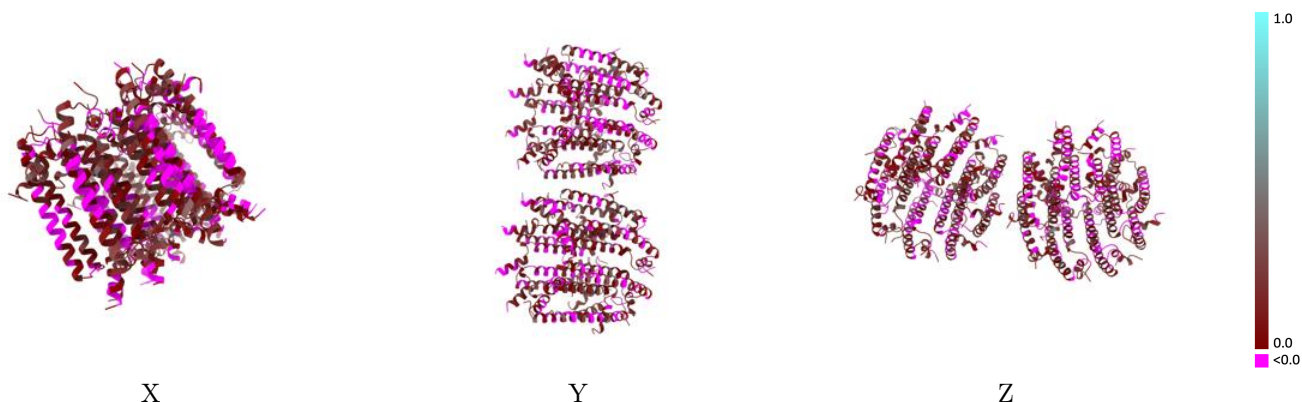
This section contains information regarding the fit between EMDB map EMD-26138 and PDB model 7TV3. Per-residue inclusion information can be found in section 3 on page 11.

9.1 Map-model overlay [i](#)



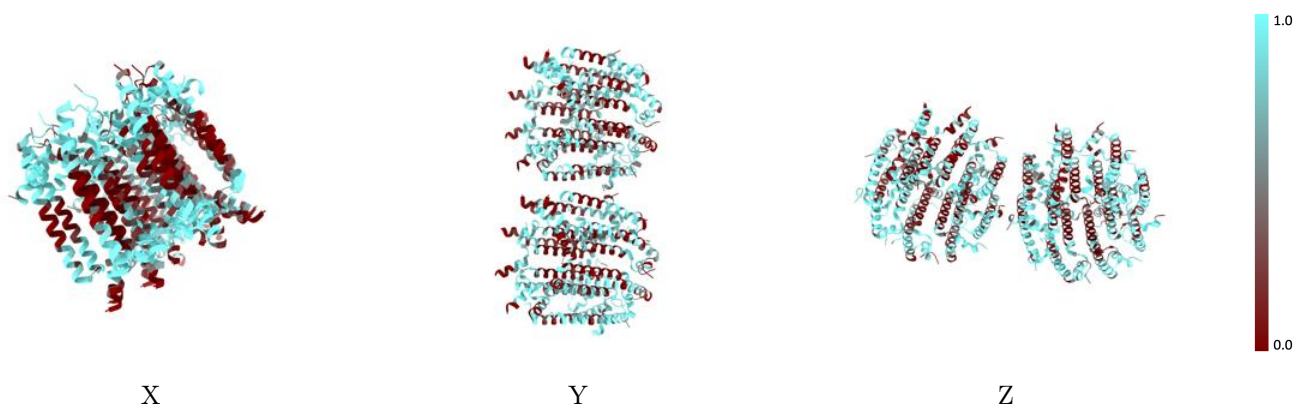
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



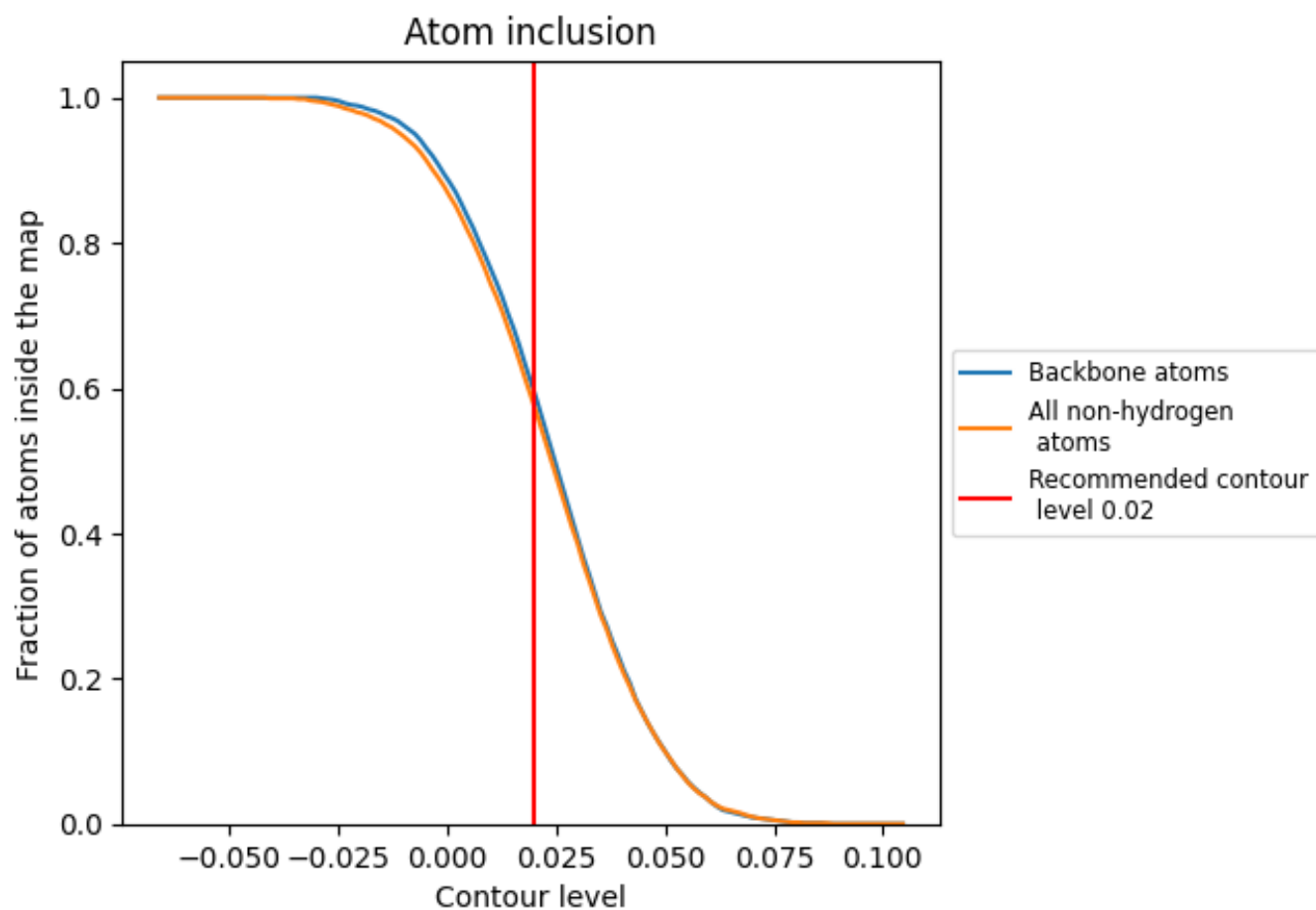
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.02).



































































9.4 Atom inclusion [i](#)



At the recommended contour level, 59% of all backbone atoms, 57% 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 (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5750	 0.0840
A	 0.5270	 0.1040
B	 0.6920	 0.1080
C	 0.4310	 0.1110
D	 0.6290	 0.1350
E	 0.5950	 0.1480
F	 0.5190	 0.0680
G	 0.3820	 0.0730
H	 0.5610	 0.0740
I	 0.4700	 0.0390
J	 0.6790	 0.0520
K	 0.4620	 0.0340
L	 0.5820	 0.0340
M	 0.6040	 0.0960
N	 0.7760	 0.0580
O	 0.7310	 0.1340
P	 0.7000	 0.1290
Q	 0.6140	 0.1070
R	 0.7130	 0.1030
S	 0.7150	 0.1200
T	 0.6410	 0.0970
U	 0.5400	 0.0600
V	 0.5480	 0.0460
W	 0.4410	 0.0460
X	 0.3760	 0.0100
Y	 0.4660	 0.0560
Z	 0.6120	 0.0550
a	 0.4110	 0.0770
b	 0.6330	 0.0420
c	 0.6630	 0.1150
d	 0.6460	 0.0620
e	 0.6160	 0.1020
f	 0.6750	 0.1450

