



wwPDB EM Validation Summary Report ⓘ

Nov 13, 2022 – 02:16 AM EST

PDB ID : 6V1Z
EMDB ID : EMD-21020
Title : genome-containing AAVrh.39 particles
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2019-11-21
Resolution : 3.58 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/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.dev43
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	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

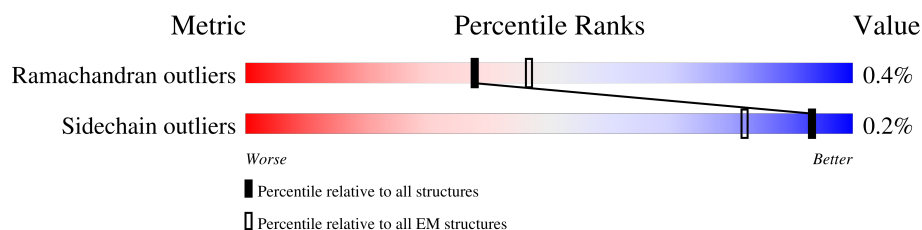
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.58 Å.

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



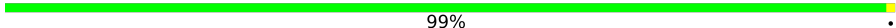
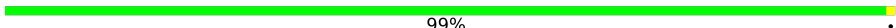
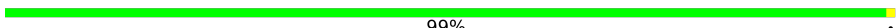
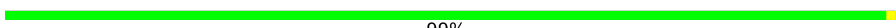
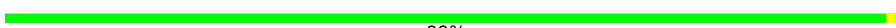








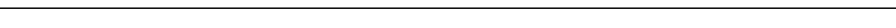

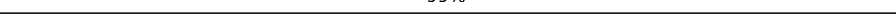
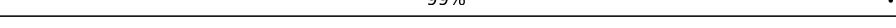
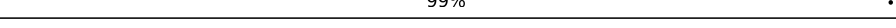
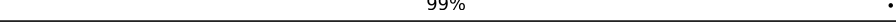
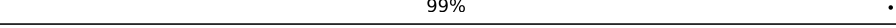
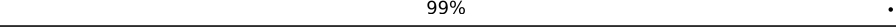
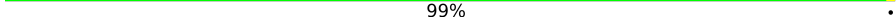
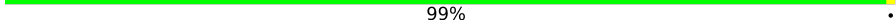
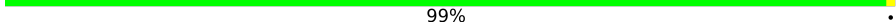
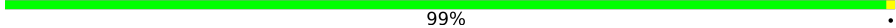
Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	1	521	99% .
1	2	521	99% .
1	3	521	99% .
1	4	521	99% .
1	5	521	99% .
1	6	521	99% .
1	7	521	99% .
1	8	521	99% .
1	A	521	99% .
1	B	521	99% .

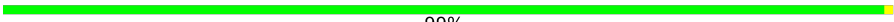
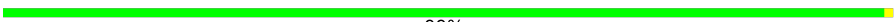












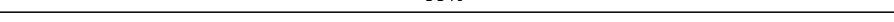
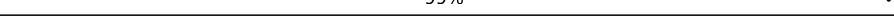
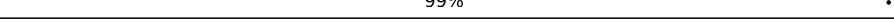
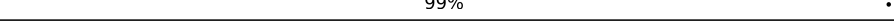
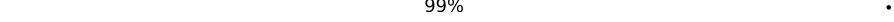
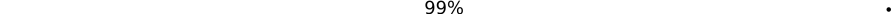
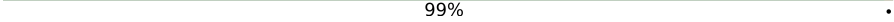
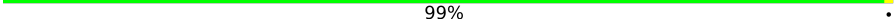
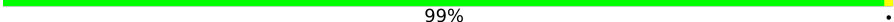
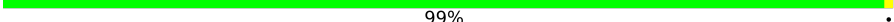
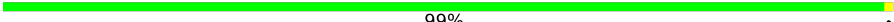
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Mol	Chain	Length	Quality of chain
1	C	521	 99%
1	D	521	 99%
1	E	521	 99%
1	F	521	 99%
1	G	521	 99%
1	H	521	 99%
1	I	521	 99%
1	J	521	 99%
1	K	521	 99%
1	L	521	 99%
1	M	521	 99%
1	N	521	 99%
1	O	521	 99%
1	P	521	 99%
1	Q	521	 99%
1	R	521	 99%
1	S	521	 99%
1	T	521	 99%
1	U	521	 99%
1	V	521	 99%
1	W	521	 99%
1	X	521	 99%
1	Y	521	 99%
1	Z	521	 99%
1	a	521	 99%

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Mol	Chain	Length	Quality of chain
1	b	521	 99%
1	c	521	 99%
1	d	521	 99%
1	e	521	 99%
1	f	521	 99%
1	g	521	 99%
1	h	521	 99%
1	i	521	 99%
1	j	521	 99%
1	k	521	 99%
1	l	521	 99%
1	m	521	 99%
1	n	521	 99%
1	o	521	 99%
1	p	521	 99%
1	q	521	 99%
1	r	521	 99%
1	s	521	 99%
1	t	521	 99%
1	u	521	 99%
1	v	521	 99%
1	w	521	 99%
1	x	521	 99%
1	y	521	 99%
1	z	521	 99%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 250920 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 Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	B	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	C	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	D	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	E	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	F	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	G	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	H	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	I	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	J	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	K	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	L	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	M	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	N	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	O	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	P	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		
1	Q	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	S	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	T	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	U	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	V	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	W	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	X	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	Y	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	Z	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	a	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	b	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	c	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	d	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	e	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	f	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	g	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	h	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	i	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	j	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	k	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	l	521	Total 4145	C 2617	N 717	O 797	S 14	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	n	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	o	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	p	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	q	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	r	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	s	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	t	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	u	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	v	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	w	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	x	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	y	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	z	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	1	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	2	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	3	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	4	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	5	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	6	521	Total 4145	C 2617	N 717	O 797	S 14	1	0
1	7	521	Total 4145	C 2617	N 717	O 797	S 14	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	1	0
			4145	2617	717	797	14		

There are 120 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	315	ASN	SER	conflict	UNP B4Y886
A	417	GLN	THR	conflict	UNP B4Y886
B	315	ASN	SER	conflict	UNP B4Y886
B	417	GLN	THR	conflict	UNP B4Y886
C	315	ASN	SER	conflict	UNP B4Y886
C	417	GLN	THR	conflict	UNP B4Y886
D	315	ASN	SER	conflict	UNP B4Y886
D	417	GLN	THR	conflict	UNP B4Y886
E	315	ASN	SER	conflict	UNP B4Y886
E	417	GLN	THR	conflict	UNP B4Y886
F	315	ASN	SER	conflict	UNP B4Y886
F	417	GLN	THR	conflict	UNP B4Y886
G	315	ASN	SER	conflict	UNP B4Y886
G	417	GLN	THR	conflict	UNP B4Y886
H	315	ASN	SER	conflict	UNP B4Y886
H	417	GLN	THR	conflict	UNP B4Y886
I	315	ASN	SER	conflict	UNP B4Y886
I	417	GLN	THR	conflict	UNP B4Y886
J	315	ASN	SER	conflict	UNP B4Y886
J	417	GLN	THR	conflict	UNP B4Y886
K	315	ASN	SER	conflict	UNP B4Y886
K	417	GLN	THR	conflict	UNP B4Y886
L	315	ASN	SER	conflict	UNP B4Y886
L	417	GLN	THR	conflict	UNP B4Y886
M	315	ASN	SER	conflict	UNP B4Y886
M	417	GLN	THR	conflict	UNP B4Y886
N	315	ASN	SER	conflict	UNP B4Y886
N	417	GLN	THR	conflict	UNP B4Y886
O	315	ASN	SER	conflict	UNP B4Y886
O	417	GLN	THR	conflict	UNP B4Y886
P	315	ASN	SER	conflict	UNP B4Y886
P	417	GLN	THR	conflict	UNP B4Y886
Q	315	ASN	SER	conflict	UNP B4Y886
Q	417	GLN	THR	conflict	UNP B4Y886
R	315	ASN	SER	conflict	UNP B4Y886
R	417	GLN	THR	conflict	UNP B4Y886

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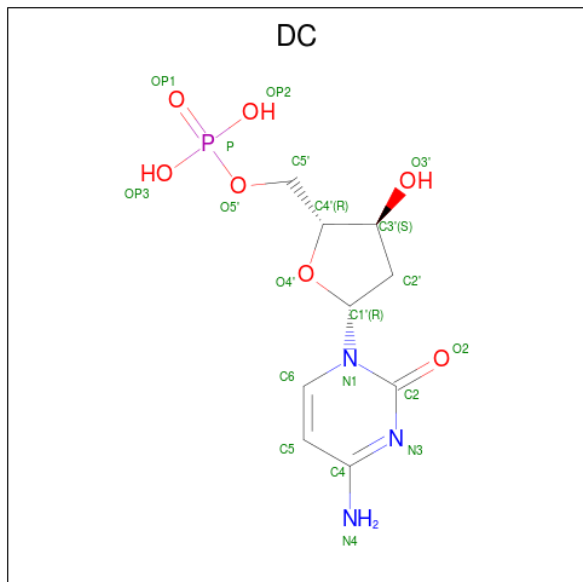
Chain	Residue	Modelled	Actual	Comment	Reference
S	315	ASN	SER	conflict	UNP B4Y886
S	417	GLN	THR	conflict	UNP B4Y886
T	315	ASN	SER	conflict	UNP B4Y886
T	417	GLN	THR	conflict	UNP B4Y886
U	315	ASN	SER	conflict	UNP B4Y886
U	417	GLN	THR	conflict	UNP B4Y886
V	315	ASN	SER	conflict	UNP B4Y886
V	417	GLN	THR	conflict	UNP B4Y886
W	315	ASN	SER	conflict	UNP B4Y886
W	417	GLN	THR	conflict	UNP B4Y886
X	315	ASN	SER	conflict	UNP B4Y886
X	417	GLN	THR	conflict	UNP B4Y886
Y	315	ASN	SER	conflict	UNP B4Y886
Y	417	GLN	THR	conflict	UNP B4Y886
Z	315	ASN	SER	conflict	UNP B4Y886
Z	417	GLN	THR	conflict	UNP B4Y886
a	315	ASN	SER	conflict	UNP B4Y886
a	417	GLN	THR	conflict	UNP B4Y886
b	315	ASN	SER	conflict	UNP B4Y886
b	417	GLN	THR	conflict	UNP B4Y886
c	315	ASN	SER	conflict	UNP B4Y886
c	417	GLN	THR	conflict	UNP B4Y886
d	315	ASN	SER	conflict	UNP B4Y886
d	417	GLN	THR	conflict	UNP B4Y886
e	315	ASN	SER	conflict	UNP B4Y886
e	417	GLN	THR	conflict	UNP B4Y886
f	315	ASN	SER	conflict	UNP B4Y886
f	417	GLN	THR	conflict	UNP B4Y886
g	315	ASN	SER	conflict	UNP B4Y886
g	417	GLN	THR	conflict	UNP B4Y886
h	315	ASN	SER	conflict	UNP B4Y886
h	417	GLN	THR	conflict	UNP B4Y886
i	315	ASN	SER	conflict	UNP B4Y886
i	417	GLN	THR	conflict	UNP B4Y886
j	315	ASN	SER	conflict	UNP B4Y886
j	417	GLN	THR	conflict	UNP B4Y886
k	315	ASN	SER	conflict	UNP B4Y886
k	417	GLN	THR	conflict	UNP B4Y886
l	315	ASN	SER	conflict	UNP B4Y886
l	417	GLN	THR	conflict	UNP B4Y886
m	315	ASN	SER	conflict	UNP B4Y886
m	417	GLN	THR	conflict	UNP B4Y886

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Chain	Residue	Modelled	Actual	Comment	Reference
n	315	ASN	SER	conflict	UNP B4Y886
n	417	GLN	THR	conflict	UNP B4Y886
o	315	ASN	SER	conflict	UNP B4Y886
o	417	GLN	THR	conflict	UNP B4Y886
p	315	ASN	SER	conflict	UNP B4Y886
p	417	GLN	THR	conflict	UNP B4Y886
q	315	ASN	SER	conflict	UNP B4Y886
q	417	GLN	THR	conflict	UNP B4Y886
r	315	ASN	SER	conflict	UNP B4Y886
r	417	GLN	THR	conflict	UNP B4Y886
s	315	ASN	SER	conflict	UNP B4Y886
s	417	GLN	THR	conflict	UNP B4Y886
t	315	ASN	SER	conflict	UNP B4Y886
t	417	GLN	THR	conflict	UNP B4Y886
u	315	ASN	SER	conflict	UNP B4Y886
u	417	GLN	THR	conflict	UNP B4Y886
v	315	ASN	SER	conflict	UNP B4Y886
v	417	GLN	THR	conflict	UNP B4Y886
w	315	ASN	SER	conflict	UNP B4Y886
w	417	GLN	THR	conflict	UNP B4Y886
x	315	ASN	SER	conflict	UNP B4Y886
x	417	GLN	THR	conflict	UNP B4Y886
y	315	ASN	SER	conflict	UNP B4Y886
y	417	GLN	THR	conflict	UNP B4Y886
z	315	ASN	SER	conflict	UNP B4Y886
z	417	GLN	THR	conflict	UNP B4Y886
1	315	ASN	SER	conflict	UNP B4Y886
1	417	GLN	THR	conflict	UNP B4Y886
2	315	ASN	SER	conflict	UNP B4Y886
2	417	GLN	THR	conflict	UNP B4Y886
3	315	ASN	SER	conflict	UNP B4Y886
3	417	GLN	THR	conflict	UNP B4Y886
4	315	ASN	SER	conflict	UNP B4Y886
4	417	GLN	THR	conflict	UNP B4Y886
5	315	ASN	SER	conflict	UNP B4Y886
5	417	GLN	THR	conflict	UNP B4Y886
6	315	ASN	SER	conflict	UNP B4Y886
6	417	GLN	THR	conflict	UNP B4Y886
7	315	ASN	SER	conflict	UNP B4Y886
7	417	GLN	THR	conflict	UNP B4Y886
8	315	ASN	SER	conflict	UNP B4Y886
8	417	GLN	THR	conflict	UNP B4Y886

- Molecule 2 is 2'-DEOXYCYTIDINE-5'-MONOPHOSPHATE (three-letter code: DC) (formula: $C_9H_{14}N_3O_7P$).



Mol	Chain	Residues	Atoms				AltConf
2	A	1	Total	C	N	O	0
			16	9	3	4	
2	B	1	Total	C	N	O	0
			16	9	3	4	
2	C	1	Total	C	N	O	0
			16	9	3	4	
2	D	1	Total	C	N	O	0
			16	9	3	4	
2	E	1	Total	C	N	O	0
			16	9	3	4	
2	F	1	Total	C	N	O	0
			16	9	3	4	
2	G	1	Total	C	N	O	0
			16	9	3	4	
2	H	1	Total	C	N	O	0
			16	9	3	4	
2	I	1	Total	C	N	O	0
			16	9	3	4	
2	J	1	Total	C	N	O	0
			16	9	3	4	
2	K	1	Total	C	N	O	0
			16	9	3	4	
2	L	1	Total	C	N	O	0
			16	9	3	4	

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Mol	Chain	Residues	Atoms				AltConf
2	M	1	Total 16	C 9	N 3	O 4	0
2	N	1	Total 16	C 9	N 3	O 4	0
2	O	1	Total 16	C 9	N 3	O 4	0
2	P	1	Total 16	C 9	N 3	O 4	0
2	Q	1	Total 16	C 9	N 3	O 4	0
2	R	1	Total 16	C 9	N 3	O 4	0
2	S	1	Total 16	C 9	N 3	O 4	0
2	T	1	Total 16	C 9	N 3	O 4	0
2	U	1	Total 16	C 9	N 3	O 4	0
2	V	1	Total 16	C 9	N 3	O 4	0
2	W	1	Total 16	C 9	N 3	O 4	0
2	X	1	Total 16	C 9	N 3	O 4	0
2	Y	1	Total 16	C 9	N 3	O 4	0
2	Z	1	Total 16	C 9	N 3	O 4	0
2	a	1	Total 16	C 9	N 3	O 4	0
2	b	1	Total 16	C 9	N 3	O 4	0
2	c	1	Total 16	C 9	N 3	O 4	0
2	d	1	Total 16	C 9	N 3	O 4	0
2	e	1	Total 16	C 9	N 3	O 4	0
2	f	1	Total 16	C 9	N 3	O 4	0
2	g	1	Total 16	C 9	N 3	O 4	0

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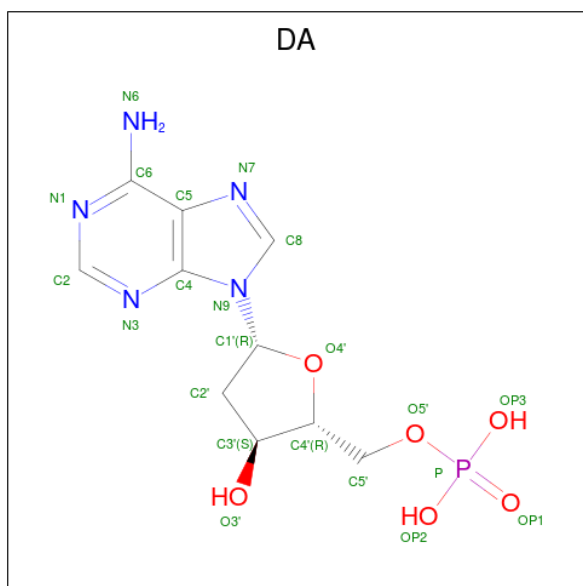
Mol	Chain	Residues	Atoms				AltConf
2	h	1	Total 16	C 9	N 3	O 4	0
2	i	1	Total 16	C 9	N 3	O 4	0
2	j	1	Total 16	C 9	N 3	O 4	0
2	k	1	Total 16	C 9	N 3	O 4	0
2	l	1	Total 16	C 9	N 3	O 4	0
2	m	1	Total 16	C 9	N 3	O 4	0
2	n	1	Total 16	C 9	N 3	O 4	0
2	o	1	Total 16	C 9	N 3	O 4	0
2	p	1	Total 16	C 9	N 3	O 4	0
2	q	1	Total 16	C 9	N 3	O 4	0
2	r	1	Total 16	C 9	N 3	O 4	0
2	s	1	Total 16	C 9	N 3	O 4	0
2	t	1	Total 16	C 9	N 3	O 4	0
2	u	1	Total 16	C 9	N 3	O 4	0
2	v	1	Total 16	C 9	N 3	O 4	0
2	w	1	Total 16	C 9	N 3	O 4	0
2	x	1	Total 16	C 9	N 3	O 4	0
2	y	1	Total 16	C 9	N 3	O 4	0
2	z	1	Total 16	C 9	N 3	O 4	0
2	1	1	Total 16	C 9	N 3	O 4	0
2	2	1	Total 16	C 9	N 3	O 4	0

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Mol	Chain	Residues	Atoms				AltConf
2	3	1	Total	C	N	O	0
			16	9	3	4	
2	4	1	Total	C	N	O	0
			16	9	3	4	
2	5	1	Total	C	N	O	0
			16	9	3	4	
2	6	1	Total	C	N	O	0
			16	9	3	4	
2	7	1	Total	C	N	O	0
			16	9	3	4	
2	8	1	Total	C	N	O	0
			16	9	3	4	

- Molecule 3 is 2'-DEOXYADENOSINE-5'-MONOPHOSPHATE (three-letter code: DA) (formula: C₁₀H₁₄N₅O₆P).



Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	N	O	P	0
			21	10	5	5	1	
3	B	1	Total	C	N	O	P	0
			21	10	5	5	1	
3	C	1	Total	C	N	O	P	0
			21	10	5	5	1	
3	D	1	Total	C	N	O	P	0
			21	10	5	5	1	
3	E	1	Total	C	N	O	P	0
			21	10	5	5	1	

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Mol	Chain	Residues	Atoms					AltConf
3	F	1	Total 21	C 10	N 5	O 5	P 1	0
3	G	1	Total 21	C 10	N 5	O 5	P 1	0
3	H	1	Total 21	C 10	N 5	O 5	P 1	0
3	I	1	Total 21	C 10	N 5	O 5	P 1	0
3	J	1	Total 21	C 10	N 5	O 5	P 1	0
3	K	1	Total 21	C 10	N 5	O 5	P 1	0
3	L	1	Total 21	C 10	N 5	O 5	P 1	0
3	M	1	Total 21	C 10	N 5	O 5	P 1	0
3	N	1	Total 21	C 10	N 5	O 5	P 1	0
3	O	1	Total 21	C 10	N 5	O 5	P 1	0
3	P	1	Total 21	C 10	N 5	O 5	P 1	0
3	Q	1	Total 21	C 10	N 5	O 5	P 1	0
3	R	1	Total 21	C 10	N 5	O 5	P 1	0
3	S	1	Total 21	C 10	N 5	O 5	P 1	0
3	T	1	Total 21	C 10	N 5	O 5	P 1	0
3	U	1	Total 21	C 10	N 5	O 5	P 1	0
3	V	1	Total 21	C 10	N 5	O 5	P 1	0
3	W	1	Total 21	C 10	N 5	O 5	P 1	0
3	X	1	Total 21	C 10	N 5	O 5	P 1	0
3	Y	1	Total 21	C 10	N 5	O 5	P 1	0
3	Z	1	Total 21	C 10	N 5	O 5	P 1	0

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Mol	Chain	Residues	Atoms					AltConf
3	a	1	Total 21	C 10	N 5	O 5	P 1	0
3	b	1	Total 21	C 10	N 5	O 5	P 1	0
3	c	1	Total 21	C 10	N 5	O 5	P 1	0
3	d	1	Total 21	C 10	N 5	O 5	P 1	0
3	e	1	Total 21	C 10	N 5	O 5	P 1	0
3	f	1	Total 21	C 10	N 5	O 5	P 1	0
3	g	1	Total 21	C 10	N 5	O 5	P 1	0
3	h	1	Total 21	C 10	N 5	O 5	P 1	0
3	i	1	Total 21	C 10	N 5	O 5	P 1	0
3	j	1	Total 21	C 10	N 5	O 5	P 1	0
3	k	1	Total 21	C 10	N 5	O 5	P 1	0
3	l	1	Total 21	C 10	N 5	O 5	P 1	0
3	m	1	Total 21	C 10	N 5	O 5	P 1	0
3	n	1	Total 21	C 10	N 5	O 5	P 1	0
3	o	1	Total 21	C 10	N 5	O 5	P 1	0
3	p	1	Total 21	C 10	N 5	O 5	P 1	0
3	q	1	Total 21	C 10	N 5	O 5	P 1	0
3	r	1	Total 21	C 10	N 5	O 5	P 1	0
3	s	1	Total 21	C 10	N 5	O 5	P 1	0
3	t	1	Total 21	C 10	N 5	O 5	P 1	0
3	u	1	Total 21	C 10	N 5	O 5	P 1	0

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Mol	Chain	Residues	Atoms					AltConf
3	v	1	Total 21	C 10	N 5	O 5	P 1	0
3	w	1	Total 21	C 10	N 5	O 5	P 1	0
3	x	1	Total 21	C 10	N 5	O 5	P 1	0
3	y	1	Total 21	C 10	N 5	O 5	P 1	0
3	z	1	Total 21	C 10	N 5	O 5	P 1	0
3	1	1	Total 21	C 10	N 5	O 5	P 1	0
3	2	1	Total 21	C 10	N 5	O 5	P 1	0
3	3	1	Total 21	C 10	N 5	O 5	P 1	0
3	4	1	Total 21	C 10	N 5	O 5	P 1	0
3	5	1	Total 21	C 10	N 5	O 5	P 1	0
3	6	1	Total 21	C 10	N 5	O 5	P 1	0
3	7	1	Total 21	C 10	N 5	O 5	P 1	0
3	8	1	Total 21	C 10	N 5	O 5	P 1	0

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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: Capsid protein VP1

Chain A:  99%



- Molecule 1: Capsid protein VP1

Chain B:  99%



- Molecule 1: Capsid protein VP1

Chain C:  99%



- Molecule 1: Capsid protein VP1

Chain D:  99%



- Molecule 1: Capsid protein VP1

Chain E:  99%



- Molecule 1: Capsid protein VP1

Chain F:  99%



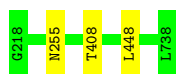
- Molecule 1: Capsid protein VP1

Chain G:  99%



- Molecule 1: Capsid protein VP1

Chain H:  99%



- Molecule 1: Capsid protein VP1

Chain I:  99%



- Molecule 1: Capsid protein VP1

Chain J:  99%



- Molecule 1: Capsid protein VP1

Chain K:  99%



- Molecule 1: Capsid protein VP1

Chain L:  99%



- Molecule 1: Capsid protein VP1

Chain M:  99%



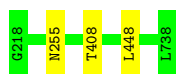
- Molecule 1: Capsid protein VP1

Chain N:  99%



- Molecule 1: Capsid protein VP1

Chain O:  99%



- Molecule 1: Capsid protein VP1

Chain P:  99%



- Molecule 1: Capsid protein VP1

Chain Q:  99%



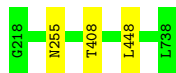
- Molecule 1: Capsid protein VP1

Chain R:  99%



- Molecule 1: Capsid protein VP1

Chain S:  99%



- Molecule 1: Capsid protein VP1

Chain T:  99%



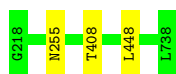
- Molecule 1: Capsid protein VP1

Chain U:  99%



- Molecule 1: Capsid protein VP1

Chain V:  99%



- Molecule 1: Capsid protein VP1

Chain W:  99%



- Molecule 1: Capsid protein VP1

Chain X:  99%



- Molecule 1: Capsid protein VP1

Chain Y:  99%



- Molecule 1: Capsid protein VP1

Chain Z:  99%



- Molecule 1: Capsid protein VP1

Chain a:  99%



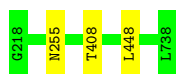
- Molecule 1: Capsid protein VP1

Chain b:  99%



- Molecule 1: Capsid protein VP1

Chain c:  99%



- Molecule 1: Capsid protein VP1

Chain d:  99%



- Molecule 1: Capsid protein VP1

Chain e:  99%



- Molecule 1: Capsid protein VP1

Chain f:  99%



- Molecule 1: Capsid protein VP1

Chain g:  99%



- Molecule 1: Capsid protein VP1

Chain h:  99%



- Molecule 1: Capsid protein VP1

Chain i:  99%



- Molecule 1: Capsid protein VP1

Chain j:  99%



- Molecule 1: Capsid protein VP1

Chain k:  99%



- Molecule 1: Capsid protein VP1

Chain l:  99%



- Molecule 1: Capsid protein VP1

Chain m:  99%



- Molecule 1: Capsid protein VP1

Chain n:  99%



- Molecule 1: Capsid protein VP1

Chain o:  99%



- Molecule 1: Capsid protein VP1

Chain p:  99%



- Molecule 1: Capsid protein VP1

Chain q:  99%



- Molecule 1: Capsid protein VP1

Chain r:  99%



- Molecule 1: Capsid protein VP1

Chain s:  99%



- Molecule 1: Capsid protein VP1

Chain t:  99%



- Molecule 1: Capsid protein VP1

Chain u:  99%



- Molecule 1: Capsid protein VP1

Chain v:  99%



- Molecule 1: Capsid protein VP1

Chain w:  99%



- Molecule 1: Capsid protein VP1

Chain x:  99%



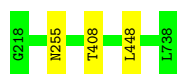
- Molecule 1: Capsid protein VP1

Chain y:  99%



- Molecule 1: Capsid protein VP1

Chain z:  99%



- Molecule 1: Capsid protein VP1

Chain 1:  99%



- Molecule 1: Capsid protein VP1

Chain 2:  99%



- Molecule 1: Capsid protein VP1

Chain 3:  99%



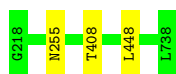
- Molecule 1: Capsid protein VP1

Chain 4:  99%



- Molecule 1: Capsid protein VP1

Chain 5:  99%



- Molecule 1: Capsid protein VP1

Chain 6:  99%



- Molecule 1: Capsid protein VP1

Chain 7:  99%



- Molecule 1: Capsid protein VP1

Chain 8:  99%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	1326	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 ($e^-/\text{\AA}^2$)	67	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	1	0.57	0/4272	0.56	0/5826
1	2	0.57	0/4272	0.56	0/5826
1	3	0.57	0/4272	0.56	0/5826
1	4	0.57	0/4272	0.56	0/5826
1	5	0.57	0/4272	0.56	0/5826
1	6	0.57	0/4272	0.56	0/5826
1	7	0.57	0/4272	0.56	0/5826
1	8	0.57	0/4272	0.56	0/5826
1	A	0.57	0/4272	0.56	0/5826
1	B	0.57	0/4272	0.56	0/5826
1	C	0.57	0/4272	0.56	0/5826
1	D	0.57	0/4272	0.56	0/5826
1	E	0.57	0/4272	0.56	0/5826
1	F	0.57	0/4272	0.56	0/5826
1	G	0.57	0/4272	0.56	0/5826
1	H	0.57	0/4272	0.56	0/5826
1	I	0.57	0/4272	0.56	0/5826
1	J	0.57	0/4272	0.56	0/5826
1	K	0.57	0/4272	0.56	0/5826
1	L	0.57	0/4272	0.56	0/5826
1	M	0.57	0/4272	0.56	0/5826
1	N	0.57	0/4272	0.56	0/5826
1	O	0.57	0/4272	0.56	0/5826
1	P	0.57	0/4272	0.56	0/5826
1	Q	0.57	0/4272	0.56	0/5826
1	R	0.57	0/4272	0.56	0/5826
1	S	0.57	0/4272	0.56	0/5826
1	T	0.57	0/4272	0.56	0/5826
1	U	0.57	0/4272	0.56	0/5826
1	V	0.57	0/4272	0.56	0/5826
1	W	0.57	0/4272	0.56	0/5826
1	X	0.57	0/4272	0.56	0/5826
1	Y	0.57	0/4272	0.56	0/5826
1	Z	0.57	0/4272	0.56	0/5826

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.57	0/4272	0.56	0/5826
1	b	0.57	0/4272	0.56	0/5826
1	c	0.57	0/4272	0.56	0/5826
1	d	0.57	0/4272	0.56	0/5826
1	e	0.57	0/4272	0.56	0/5826
1	f	0.57	0/4272	0.56	0/5826
1	g	0.57	0/4272	0.56	0/5826
1	h	0.57	0/4272	0.56	0/5826
1	i	0.57	0/4272	0.56	0/5826
1	j	0.57	0/4272	0.56	0/5826
1	k	0.57	0/4272	0.56	0/5826
1	l	0.57	0/4272	0.56	0/5826
1	m	0.57	0/4272	0.56	0/5826
1	n	0.57	0/4272	0.56	0/5826
1	o	0.57	0/4272	0.56	0/5826
1	p	0.57	0/4272	0.56	0/5826
1	q	0.57	0/4272	0.56	0/5826
1	r	0.57	0/4272	0.56	0/5826
1	s	0.57	0/4272	0.56	0/5826
1	t	0.57	0/4272	0.56	0/5826
1	u	0.57	0/4272	0.56	0/5826
1	v	0.57	0/4272	0.56	0/5826
1	w	0.57	0/4272	0.56	0/5826
1	x	0.57	0/4272	0.56	0/5826
1	y	0.57	0/4272	0.56	0/5826
1	z	0.57	0/4272	0.56	0/5826
All	All	0.57	0/256320	0.56	0/349560

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 ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	1	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	2	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	3	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	4	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	5	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	6	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	7	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	8	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	A	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	B	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	C	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	D	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	E	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	F	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	G	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	H	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	I	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	J	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	K	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	L	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	M	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	N	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	O	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	P	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	Q	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	S	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	T	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	U	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	V	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	W	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	X	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	Y	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	Z	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	a	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	b	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	c	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	d	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	e	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	f	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	g	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	h	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	i	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	j	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	k	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	l	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	m	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	n	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	o	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	p	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	q	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	r	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	s	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	t	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	u	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	v	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	x	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	y	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
1	z	520/521 (100%)	504 (97%)	14 (3%)	2 (0%)	34	71
All	All	31200/31260 (100%)	30240 (97%)	840 (3%)	120 (0%)	38	71

5 of 120 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	255	ASN
1	A	408	THR
1	B	255	ASN
1	B	408	THR
1	C	255	ASN

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	1	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	2	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	3	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	4	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	5	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	6	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	7	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	8	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	A	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	B	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	C	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	D	455/454 (100%)	454 (100%)	1 (0%)	93	98

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	F	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	G	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	H	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	I	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	J	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	K	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	L	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	M	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	N	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	O	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	P	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	Q	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	R	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	S	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	T	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	U	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	V	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	W	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	X	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	Y	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	Z	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	a	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	b	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	c	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	d	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	e	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	f	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	g	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	h	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	i	455/454 (100%)	454 (100%)	1 (0%)	93	98

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	j	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	k	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	l	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	m	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	n	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	o	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	p	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	q	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	r	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	s	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	t	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	u	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	v	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	w	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	x	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	y	455/454 (100%)	454 (100%)	1 (0%)	93	98
1	z	455/454 (100%)	454 (100%)	1 (0%)	93	98
All	All	27300/27240 (100%)	27240 (100%)	60 (0%)	93	98

5 of 60 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	c	448	LEU
1	4	448	LEU
1	j	448	LEU
1	3	448	LEU
1	8	448	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 660 such sidechains are listed below:

Mol	Chain	Res	Type
1	q	328	GLN
1	l	328	GLN
1	r	431	GLN
1	q	305	ASN

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Mol	Chain	Res	Type
1	v	431	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](#)

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](#)

120 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	$\# Z > 2$
3	DA	Q	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	X	901	-	17,17,21	0.44	0	24,24,31	0.58	0
3	DA	a	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	z	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	X	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	J	902	-	18,23,24	0.77	0	17,33,36	0.66	0
2	DC	4	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	1	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	4	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	M	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	j	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	2	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	v	902	-	18,23,24	0.76	0	17,33,36	0.67	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	DA	T	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	G	901	-	17,17,21	0.45	0	24,24,31	0.59	0
2	DC	M	901	-	17,17,21	0.44	0	24,24,31	0.58	0
2	DC	Z	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	K	902	-	18,23,24	0.77	0	17,33,36	0.67	0
3	DA	l	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	B	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	A	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	i	902	-	18,23,24	0.75	0	17,33,36	0.67	0
2	DC	d	901	-	17,17,21	0.45	0	24,24,31	0.58	0
2	DC	C	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	c	901	-	17,17,21	0.44	0	24,24,31	0.58	0
3	DA	n	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	b	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	g	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	S	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	C	902	-	18,23,24	0.76	0	17,33,36	0.66	0
2	DC	L	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	7	902	-	18,23,24	0.77	0	17,33,36	0.66	0
2	DC	7	901	-	17,17,21	0.43	0	24,24,31	0.59	0
2	DC	y	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	k	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	H	902	-	18,23,24	0.77	0	17,33,36	0.67	0
2	DC	a	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	r	902	-	18,23,24	0.76	0	17,33,36	0.66	0
2	DC	Y	901	-	17,17,21	0.45	0	24,24,31	0.59	0
3	DA	Z	902	-	18,23,24	0.76	0	17,33,36	0.66	0
2	DC	6	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	x	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	c	902	-	18,23,24	0.77	0	17,33,36	0.67	0
2	DC	p	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	q	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	V	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	m	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	O	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	P	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	K	901	-	17,17,21	0.44	0	24,24,31	0.58	0
2	DC	t	901	-	17,17,21	0.44	0	24,24,31	0.58	0
2	DC	w	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	A	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	L	902	-	18,23,24	0.75	0	17,33,36	0.67	0
3	DA	5	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	1	902	-	18,23,24	0.76	0	17,33,36	0.66	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	DA	W	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	G	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	J	901	-	17,17,21	0.45	0	24,24,31	0.58	0
2	DC	m	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	h	901	-	17,17,21	0.45	0	24,24,31	0.59	0
3	DA	j	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	N	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	H	901	-	17,17,21	0.44	0	24,24,31	0.58	0
3	DA	h	902	-	18,23,24	0.77	0	17,33,36	0.67	0
2	DC	B	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	x	901	-	17,17,21	0.45	0	24,24,31	0.58	0
2	DC	i	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	n	901	-	17,17,21	0.45	0	24,24,31	0.58	0
2	DC	S	901	-	17,17,21	0.45	0	24,24,31	0.59	0
2	DC	Q	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	d	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	Y	902	-	18,23,24	0.77	0	17,33,36	0.67	0
2	DC	e	901	-	17,17,21	0.45	0	24,24,31	0.59	0
2	DC	u	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	3	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	T	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	I	901	-	17,17,21	0.44	0	24,24,31	0.58	0
2	DC	V	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	3	901	-	17,17,21	0.45	0	24,24,31	0.59	0
3	DA	8	902	-	18,23,24	0.76	0	17,33,36	0.66	0
2	DC	N	901	-	17,17,21	0.45	0	24,24,31	0.59	0
2	DC	D	901	-	17,17,21	0.45	0	24,24,31	0.58	0
2	DC	8	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	k	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	o	901	-	17,17,21	0.45	0	24,24,31	0.58	0
2	DC	5	901	-	17,17,21	0.44	0	24,24,31	0.58	0
2	DC	E	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	g	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	U	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	y	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	t	902	-	18,23,24	0.77	0	17,33,36	0.66	0
2	DC	v	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	2	901	-	17,17,21	0.44	0	24,24,31	0.59	0
2	DC	q	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	U	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	f	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	6	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	P	901	-	17,17,21	0.44	0	24,24,31	0.59	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	DA	p	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	z	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	b	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	R	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	R	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	D	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	r	901	-	17,17,21	0.44	0	24,24,31	0.58	0
2	DC	W	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	s	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	O	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	s	901	-	17,17,21	0.44	0	24,24,31	0.58	0
3	DA	o	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	f	901	-	17,17,21	0.44	0	24,24,31	0.59	0
3	DA	e	902	-	18,23,24	0.76	0	17,33,36	0.67	0
2	DC	l	901	-	17,17,21	0.45	0	24,24,31	0.58	0
3	DA	u	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	E	902	-	18,23,24	0.76	0	17,33,36	0.68	0
2	DC	F	901	-	17,17,21	0.44	0	24,24,31	0.58	0
3	DA	w	902	-	18,23,24	0.76	0	17,33,36	0.67	0
3	DA	F	902	-	18,23,24	0.76	0	17,33,36	0.66	0
3	DA	I	902	-	18,23,24	0.76	0	17,33,36	0.67	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
3	DA	Q	902	-	-	2/3/21/22	0/3/3/3
2	DC	X	901	-	-	2/6/18/22	0/2/2/2
3	DA	a	902	-	-	2/3/21/22	0/3/3/3
3	DA	z	902	-	-	2/3/21/22	0/3/3/3
3	DA	X	902	-	-	2/3/21/22	0/3/3/3
3	DA	J	902	-	-	2/3/21/22	0/3/3/3
2	DC	4	901	-	-	2/6/18/22	0/2/2/2
2	DC	1	901	-	-	2/6/18/22	0/2/2/2
3	DA	4	902	-	-	2/3/21/22	0/3/3/3
3	DA	M	902	-	-	2/3/21/22	0/3/3/3
2	DC	j	901	-	-	2/6/18/22	0/2/2/2
3	DA	2	902	-	-	2/3/21/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	DA	v	902	-	-	2/3/21/22	0/3/3/3
3	DA	T	902	-	-	2/3/21/22	0/3/3/3
2	DC	G	901	-	-	2/6/18/22	0/2/2/2
2	DC	M	901	-	-	2/6/18/22	0/2/2/2
2	DC	Z	901	-	-	2/6/18/22	0/2/2/2
3	DA	K	902	-	-	2/3/21/22	0/3/3/3
3	DA	l	902	-	-	2/3/21/22	0/3/3/3
3	DA	B	902	-	-	2/3/21/22	0/3/3/3
3	DA	A	902	-	-	2/3/21/22	0/3/3/3
3	DA	i	902	-	-	2/3/21/22	0/3/3/3
2	DC	d	901	-	-	2/6/18/22	0/2/2/2
2	DC	C	901	-	-	2/6/18/22	0/2/2/2
2	DC	c	901	-	-	2/6/18/22	0/2/2/2
3	DA	n	902	-	-	2/3/21/22	0/3/3/3
2	DC	b	901	-	-	2/6/18/22	0/2/2/2
2	DC	g	901	-	-	2/6/18/22	0/2/2/2
3	DA	S	902	-	-	2/3/21/22	0/3/3/3
3	DA	C	902	-	-	2/3/21/22	0/3/3/3
2	DC	L	901	-	-	2/6/18/22	0/2/2/2
3	DA	7	902	-	-	2/3/21/22	0/3/3/3
2	DC	7	901	-	-	2/6/18/22	0/2/2/2
2	DC	y	901	-	-	2/6/18/22	0/2/2/2
3	DA	k	902	-	-	2/3/21/22	0/3/3/3
3	DA	H	902	-	-	2/3/21/22	0/3/3/3
2	DC	a	901	-	-	2/6/18/22	0/2/2/2
3	DA	r	902	-	-	2/3/21/22	0/3/3/3
2	DC	Y	901	-	-	2/6/18/22	0/2/2/2
3	DA	Z	902	-	-	2/3/21/22	0/3/3/3
2	DC	6	901	-	-	2/6/18/22	0/2/2/2
3	DA	x	902	-	-	2/3/21/22	0/3/3/3
3	DA	c	902	-	-	2/3/21/22	0/3/3/3
2	DC	p	901	-	-	2/6/18/22	0/2/2/2
3	DA	q	902	-	-	2/3/21/22	0/3/3/3
3	DA	V	902	-	-	2/3/21/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	DA	m	902	-	-	2/3/21/22	0/3/3/3
2	DC	O	901	-	-	2/6/18/22	0/2/2/2
3	DA	P	902	-	-	2/3/21/22	0/3/3/3
2	DC	K	901	-	-	2/6/18/22	0/2/2/2
2	DC	t	901	-	-	2/6/18/22	0/2/2/2
2	DC	w	901	-	-	2/6/18/22	0/2/2/2
2	DC	A	901	-	-	2/6/18/22	0/2/2/2
3	DA	L	902	-	-	2/3/21/22	0/3/3/3
3	DA	5	902	-	-	2/3/21/22	0/3/3/3
3	DA	1	902	-	-	2/3/21/22	0/3/3/3
3	DA	W	902	-	-	2/3/21/22	0/3/3/3
3	DA	G	902	-	-	2/3/21/22	0/3/3/3
2	DC	J	901	-	-	2/6/18/22	0/2/2/2
2	DC	m	901	-	-	2/6/18/22	0/2/2/2
2	DC	h	901	-	-	2/6/18/22	0/2/2/2
3	DA	j	902	-	-	2/3/21/22	0/3/3/3
3	DA	N	902	-	-	2/3/21/22	0/3/3/3
2	DC	H	901	-	-	2/6/18/22	0/2/2/2
3	DA	h	902	-	-	2/3/21/22	0/3/3/3
2	DC	B	901	-	-	2/6/18/22	0/2/2/2
2	DC	x	901	-	-	2/6/18/22	0/2/2/2
2	DC	i	901	-	-	2/6/18/22	0/2/2/2
2	DC	n	901	-	-	2/6/18/22	0/2/2/2
2	DC	S	901	-	-	2/6/18/22	0/2/2/2
2	DC	Q	901	-	-	2/6/18/22	0/2/2/2
3	DA	d	902	-	-	2/3/21/22	0/3/3/3
3	DA	Y	902	-	-	2/3/21/22	0/3/3/3
2	DC	e	901	-	-	2/6/18/22	0/2/2/2
2	DC	u	901	-	-	2/6/18/22	0/2/2/2
3	DA	3	902	-	-	2/3/21/22	0/3/3/3
2	DC	T	901	-	-	2/6/18/22	0/2/2/2
2	DC	I	901	-	-	2/6/18/22	0/2/2/2
2	DC	V	901	-	-	2/6/18/22	0/2/2/2
2	DC	3	901	-	-	2/6/18/22	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	DA	8	902	-	-	2/3/21/22	0/3/3/3
2	DC	N	901	-	-	2/6/18/22	0/2/2/2
2	DC	D	901	-	-	2/6/18/22	0/2/2/2
2	DC	8	901	-	-	2/6/18/22	0/2/2/2
2	DC	k	901	-	-	2/6/18/22	0/2/2/2
2	DC	o	901	-	-	2/6/18/22	0/2/2/2
2	DC	5	901	-	-	2/6/18/22	0/2/2/2
2	DC	E	901	-	-	2/6/18/22	0/2/2/2
3	DA	g	902	-	-	2/3/21/22	0/3/3/3
2	DC	U	901	-	-	2/6/18/22	0/2/2/2
3	DA	y	902	-	-	2/3/21/22	0/3/3/3
3	DA	t	902	-	-	2/3/21/22	0/3/3/3
2	DC	v	901	-	-	2/6/18/22	0/2/2/2
2	DC	2	901	-	-	2/6/18/22	0/2/2/2
2	DC	q	901	-	-	2/6/18/22	0/2/2/2
3	DA	U	902	-	-	2/3/21/22	0/3/3/3
3	DA	f	902	-	-	2/3/21/22	0/3/3/3
3	DA	6	902	-	-	2/3/21/22	0/3/3/3
2	DC	P	901	-	-	2/6/18/22	0/2/2/2
3	DA	p	902	-	-	2/3/21/22	0/3/3/3
2	DC	z	901	-	-	2/6/18/22	0/2/2/2
3	DA	b	902	-	-	2/3/21/22	0/3/3/3
3	DA	R	902	-	-	2/3/21/22	0/3/3/3
2	DC	R	901	-	-	2/6/18/22	0/2/2/2
3	DA	D	902	-	-	2/3/21/22	0/3/3/3
2	DC	r	901	-	-	2/6/18/22	0/2/2/2
2	DC	W	901	-	-	2/6/18/22	0/2/2/2
3	DA	s	902	-	-	2/3/21/22	0/3/3/3
3	DA	O	902	-	-	2/3/21/22	0/3/3/3
2	DC	s	901	-	-	2/6/18/22	0/2/2/2
3	DA	o	902	-	-	2/3/21/22	0/3/3/3
2	DC	f	901	-	-	2/6/18/22	0/2/2/2
3	DA	e	902	-	-	2/3/21/22	0/3/3/3
2	DC	l	901	-	-	2/6/18/22	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	DA	u	902	-	-	2/3/21/22	0/3/3/3
3	DA	E	902	-	-	2/3/21/22	0/3/3/3
2	DC	F	901	-	-	2/6/18/22	0/2/2/2
3	DA	w	902	-	-	2/3/21/22	0/3/3/3
3	DA	F	902	-	-	2/3/21/22	0/3/3/3
3	DA	I	902	-	-	2/3/21/22	0/3/3/3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 240 torsion outliers are listed below:

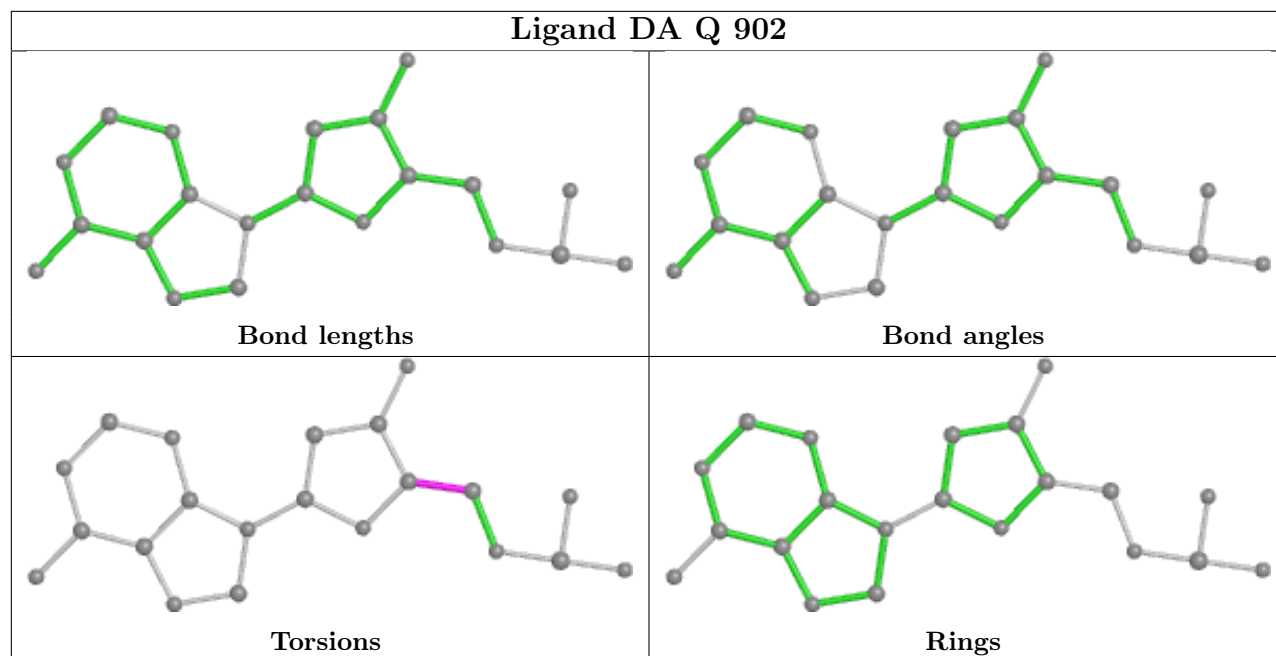
Mol	Chain	Res	Type	Atoms
2	A	901	DC	O4'-C1'-N1-C2
2	A	901	DC	O4'-C1'-N1-C6
2	B	901	DC	O4'-C1'-N1-C2
2	B	901	DC	O4'-C1'-N1-C6
2	C	901	DC	O4'-C1'-N1-C2

There are no ring outliers.

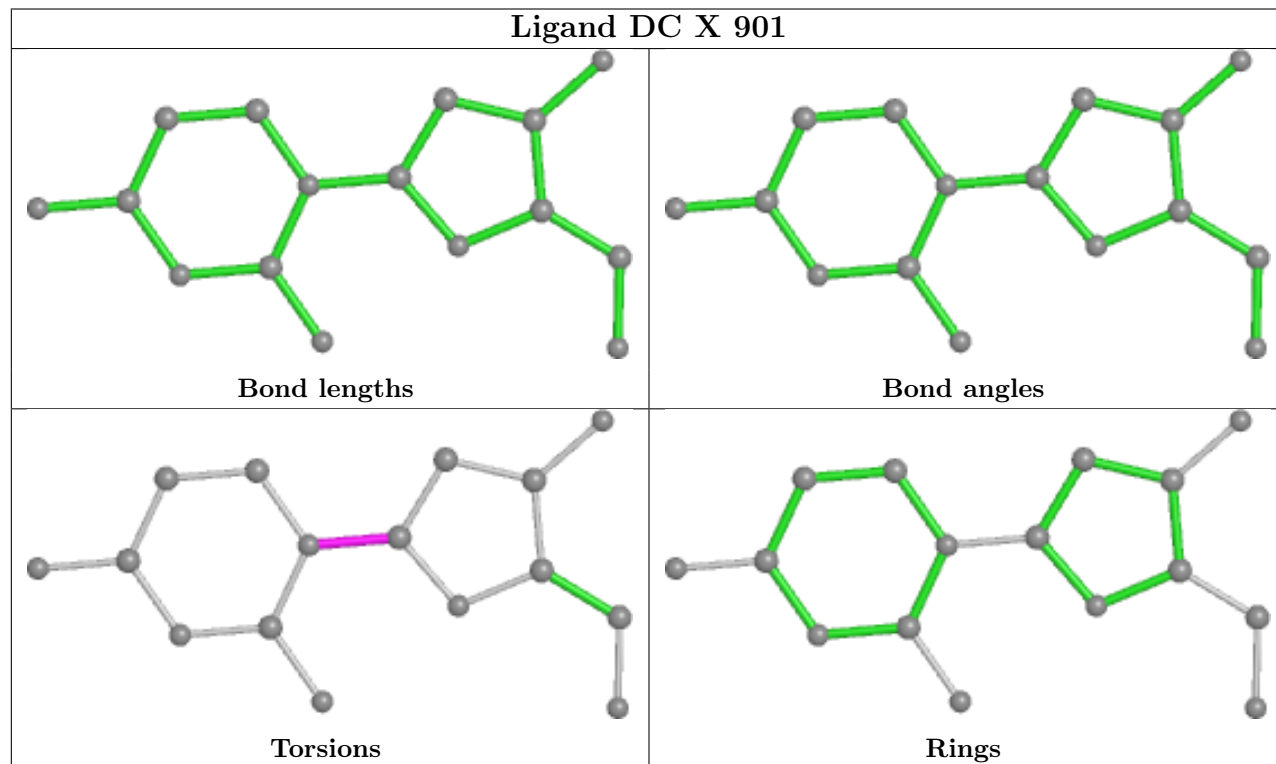
No monomer is involved in short contacts.

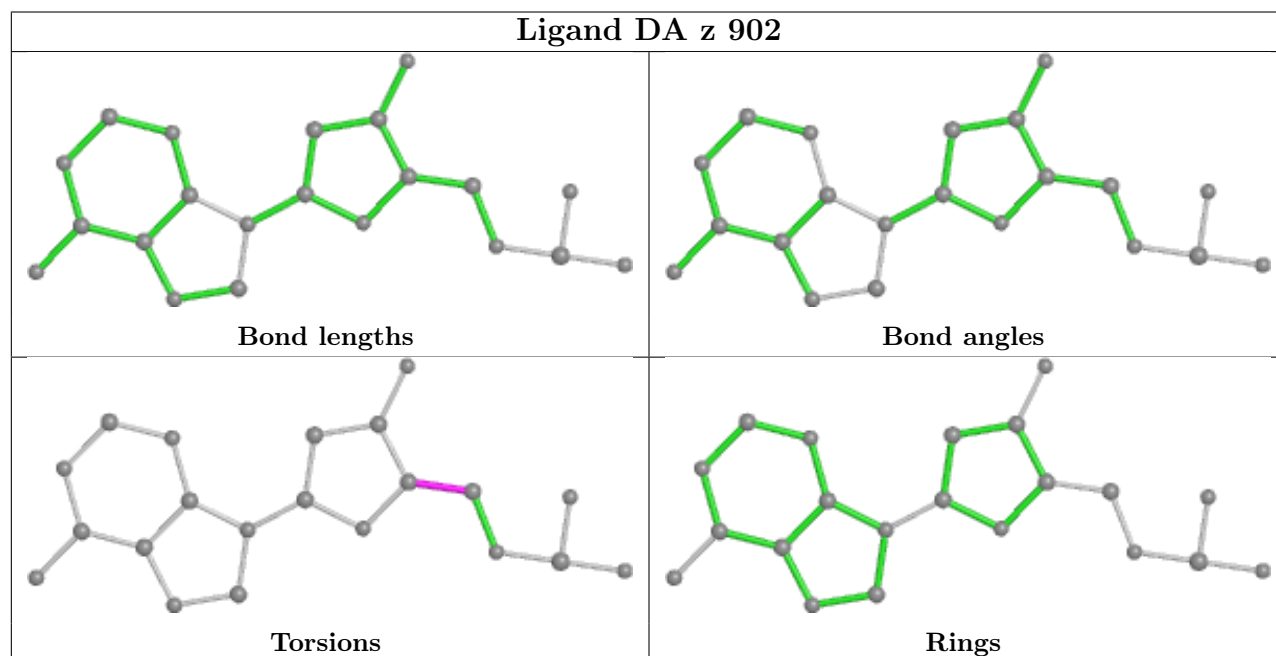
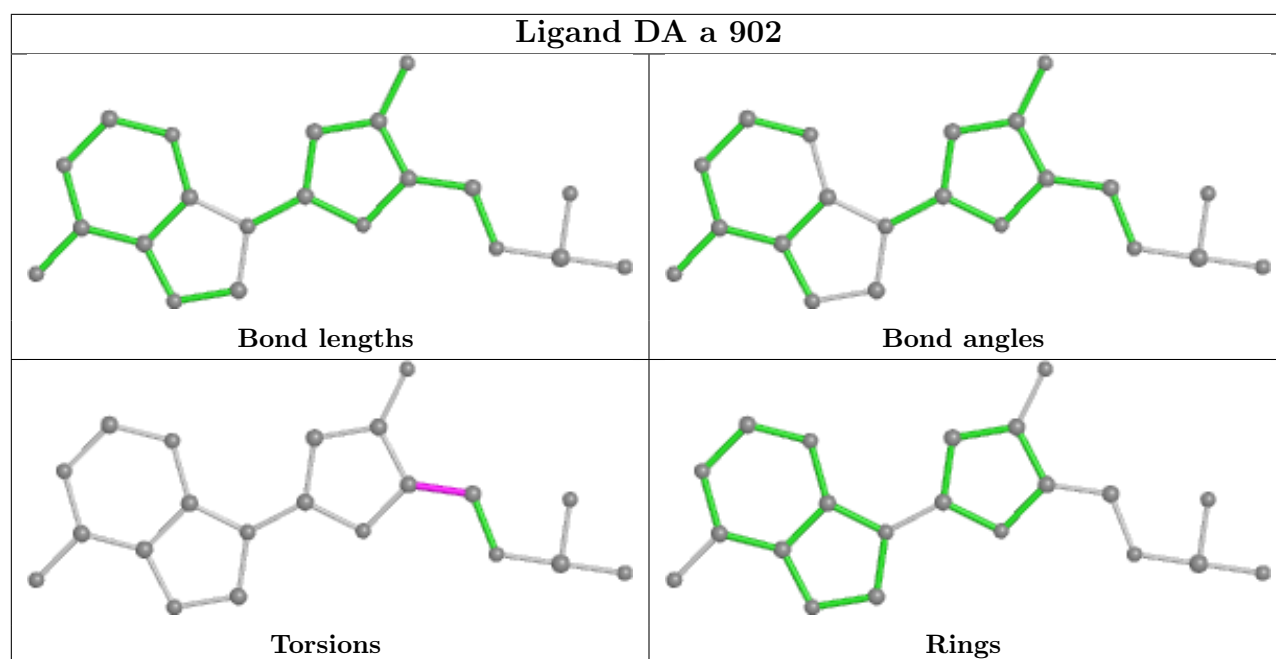
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

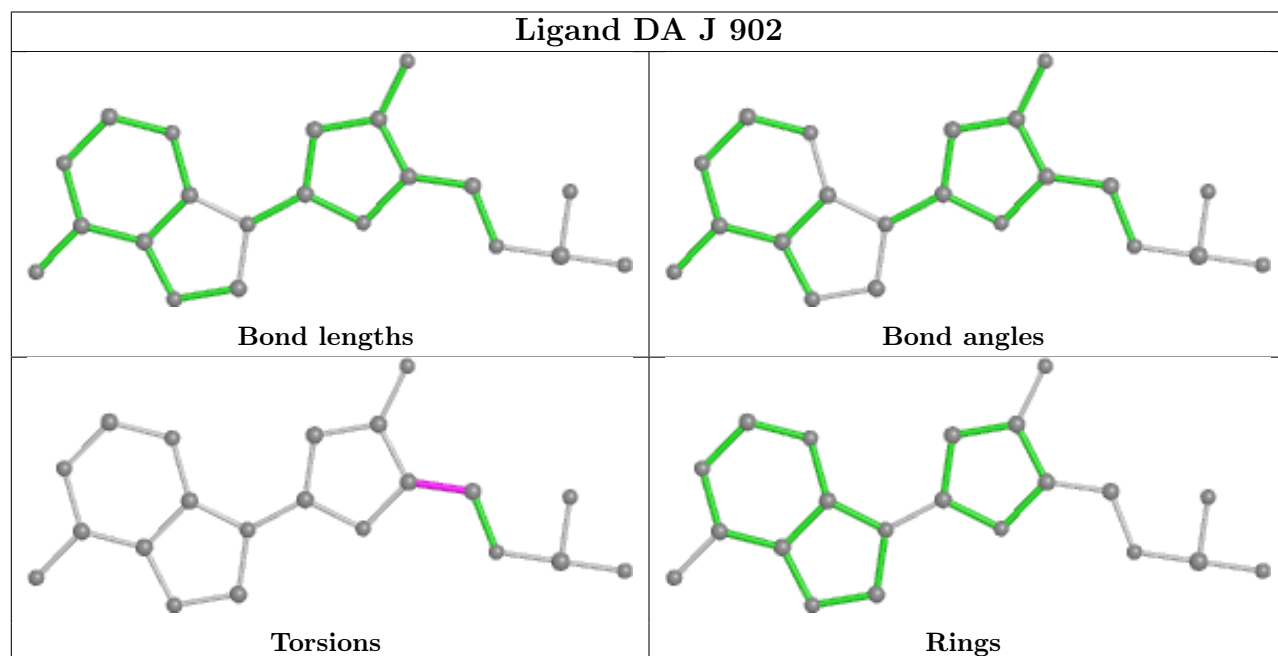
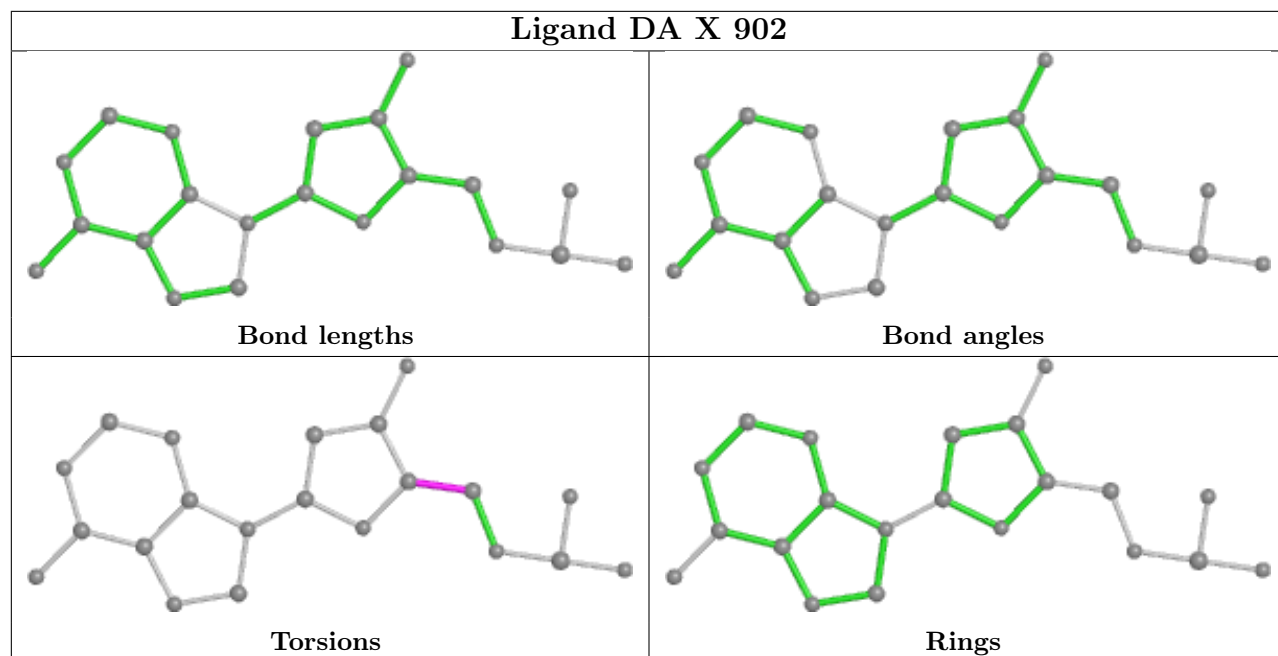
Ligand DA Q 902

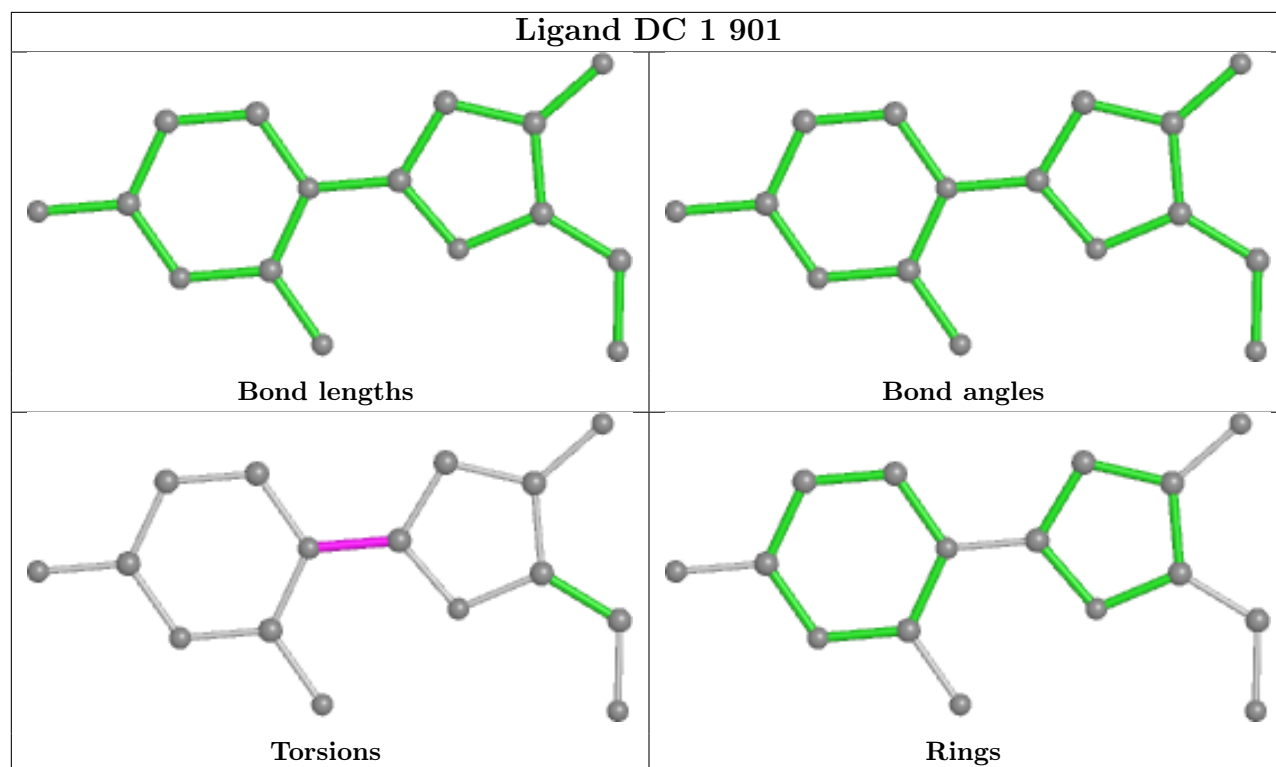
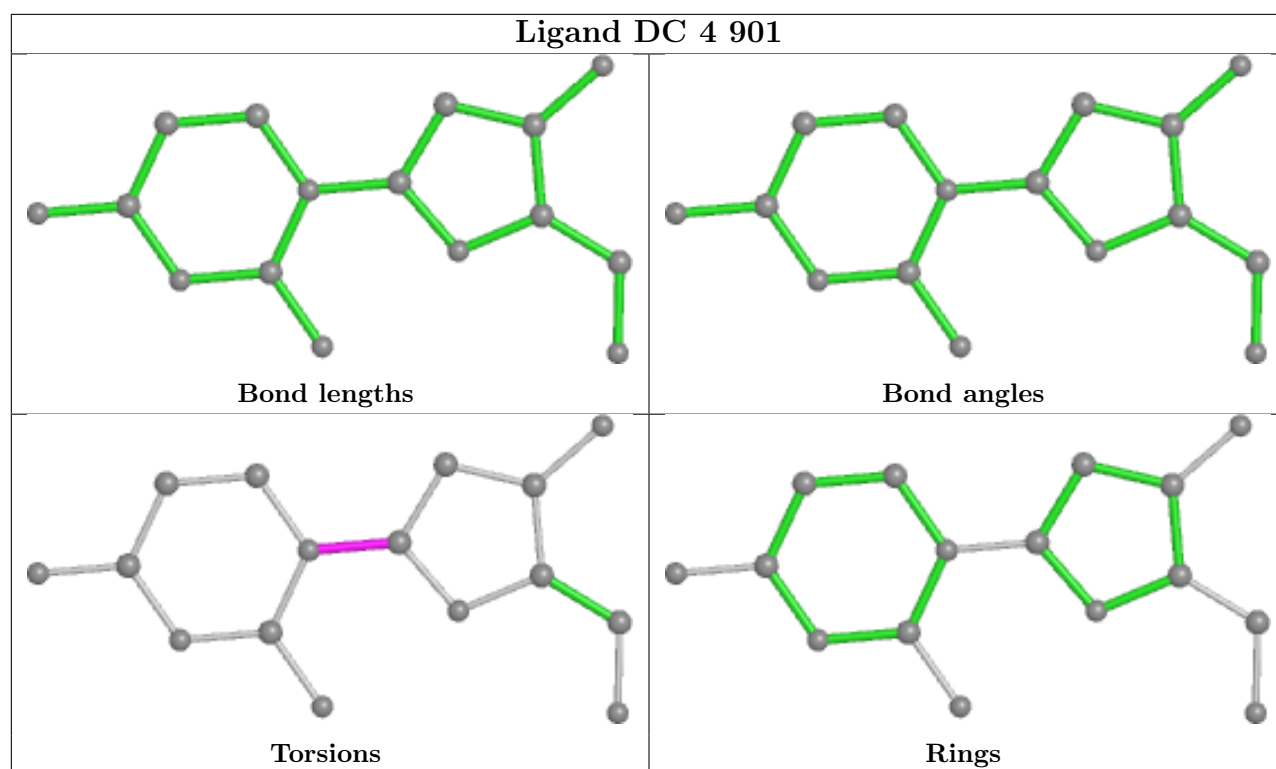


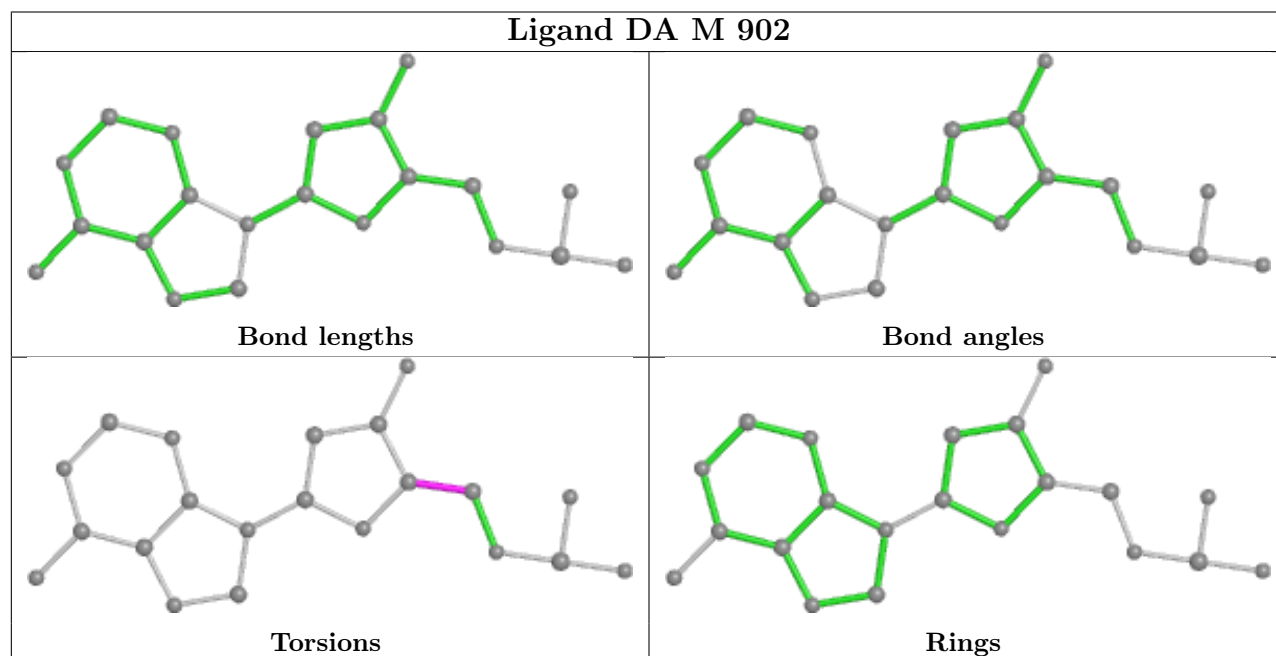
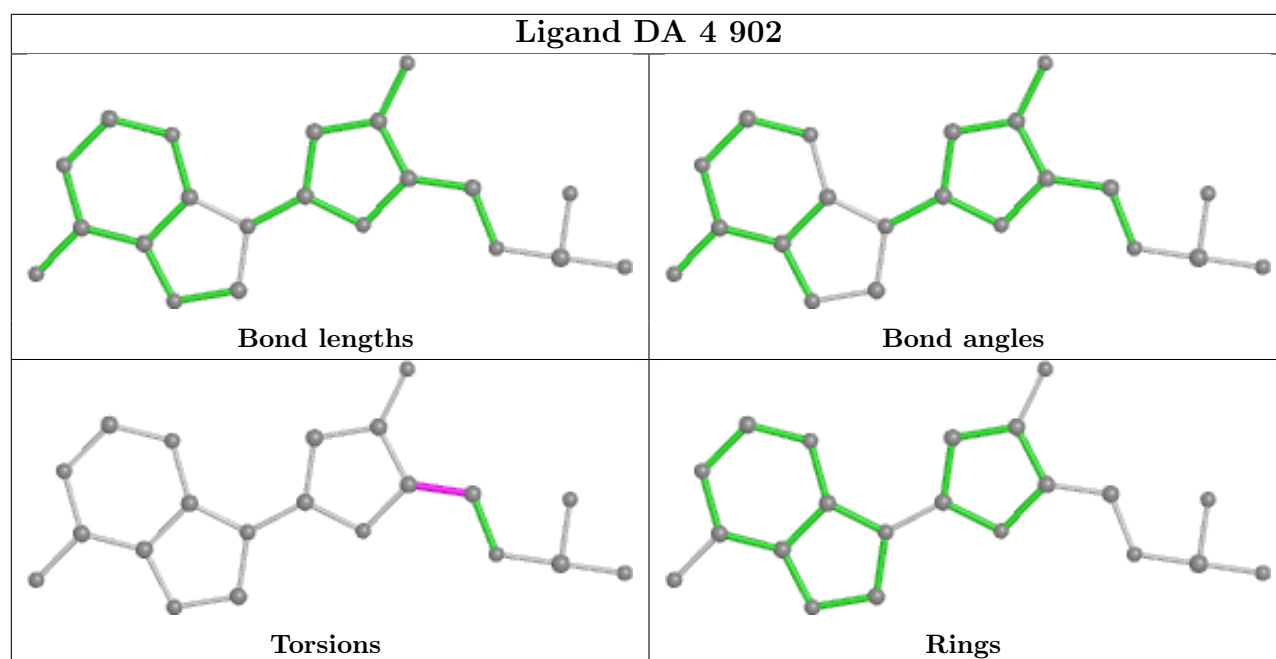
Ligand DC X 901

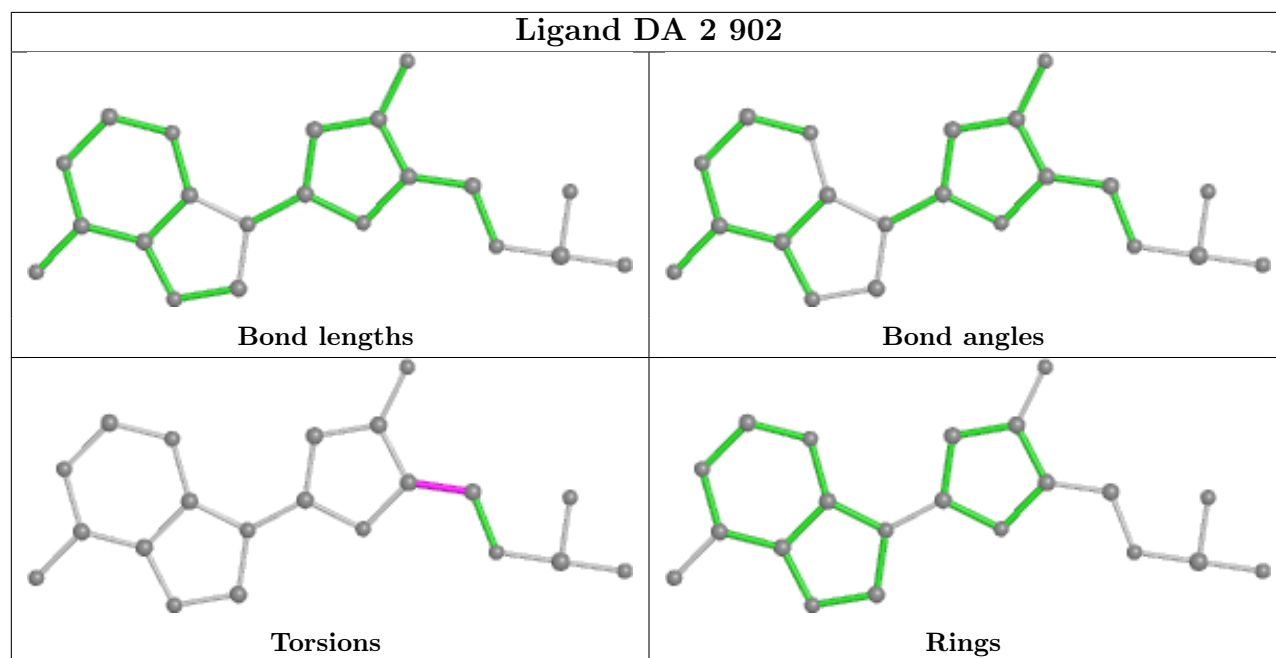
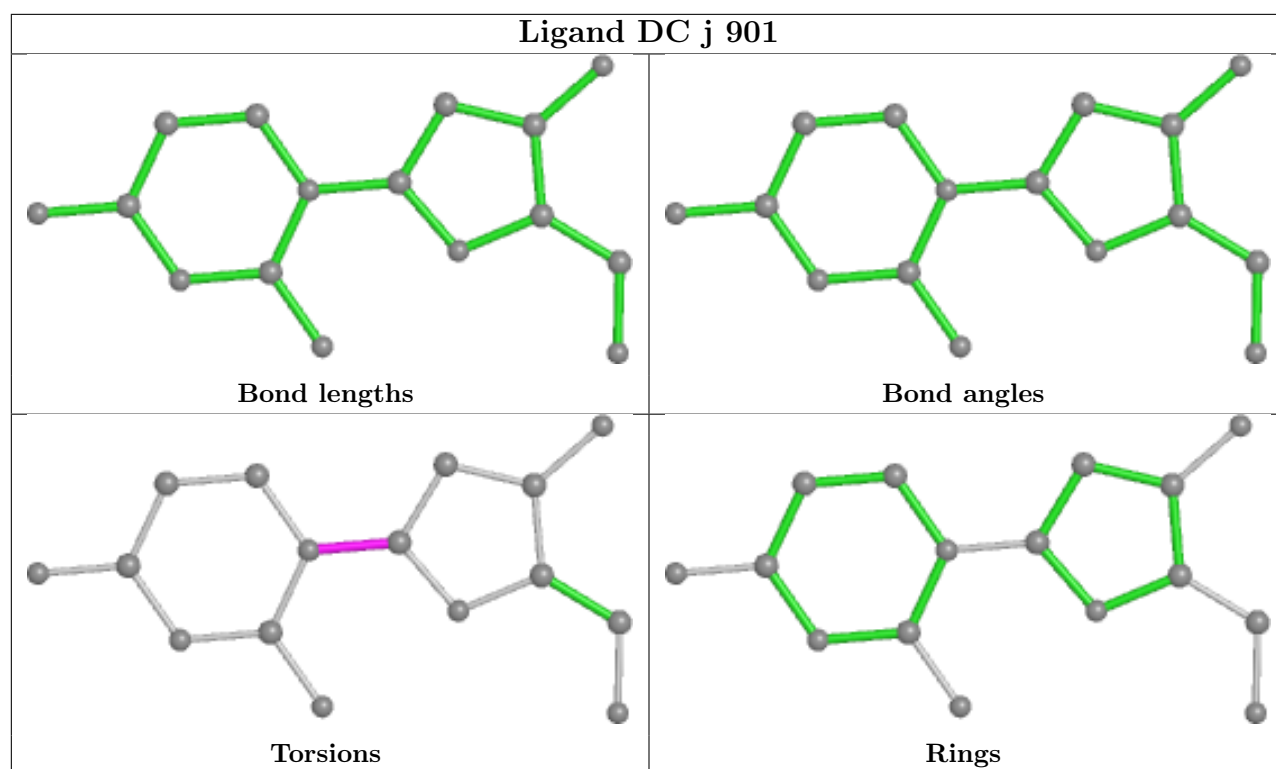


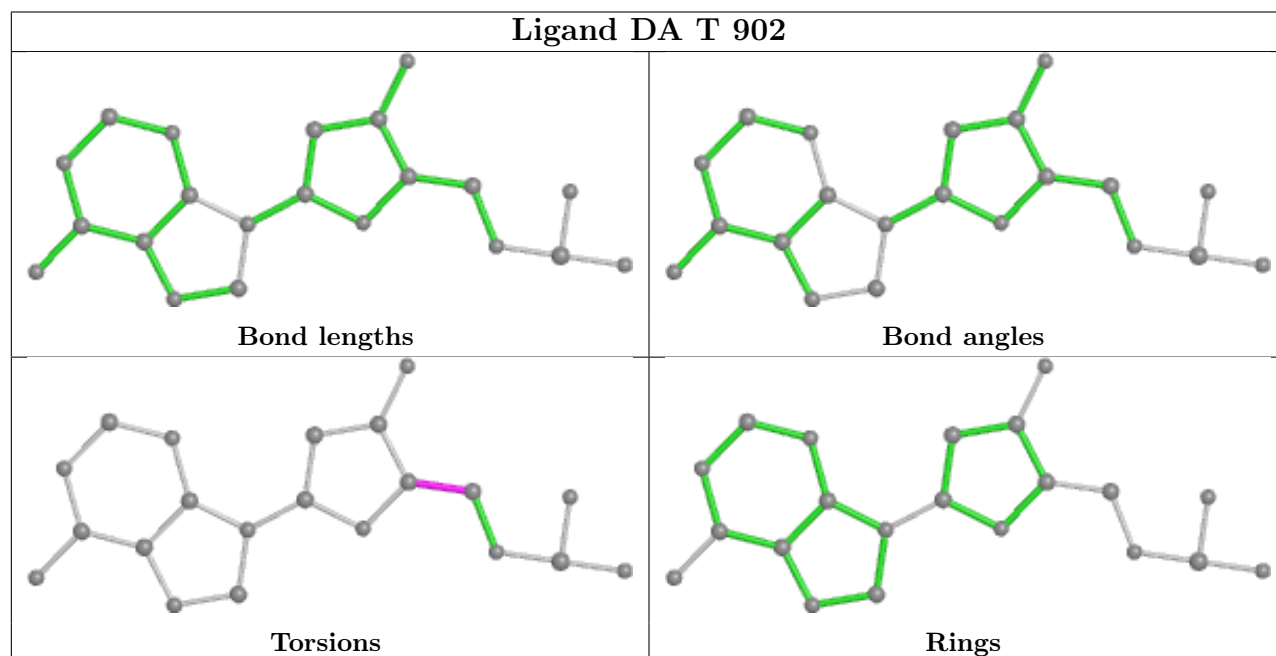
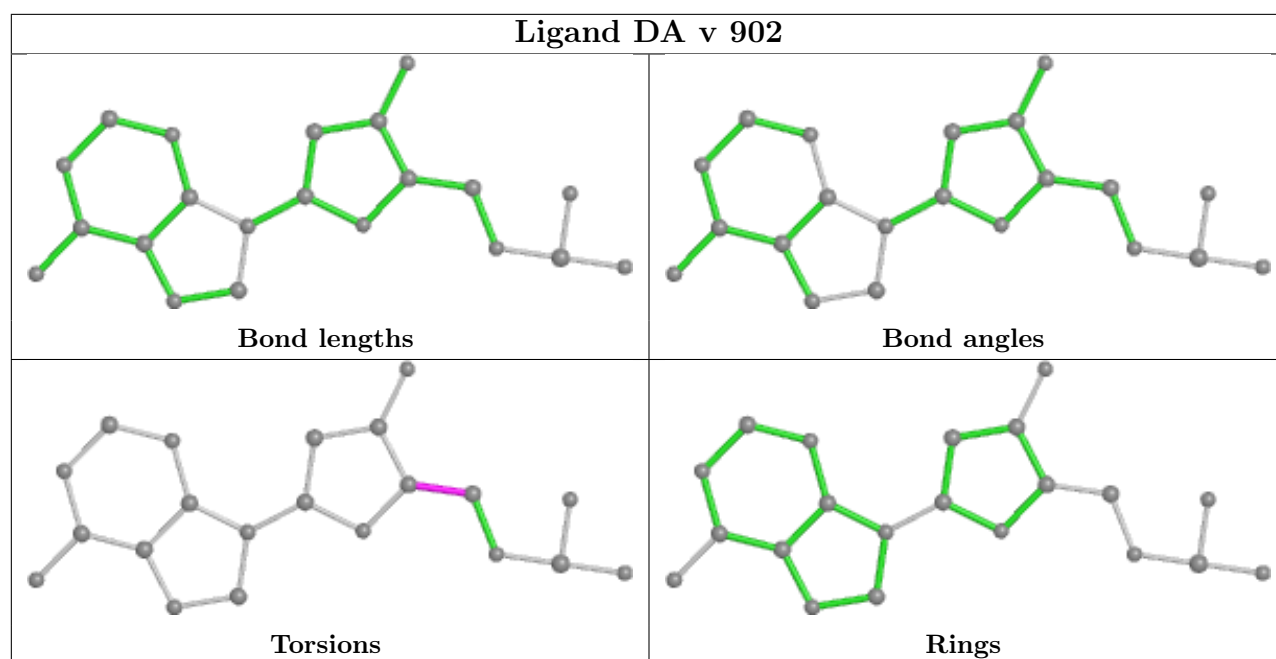


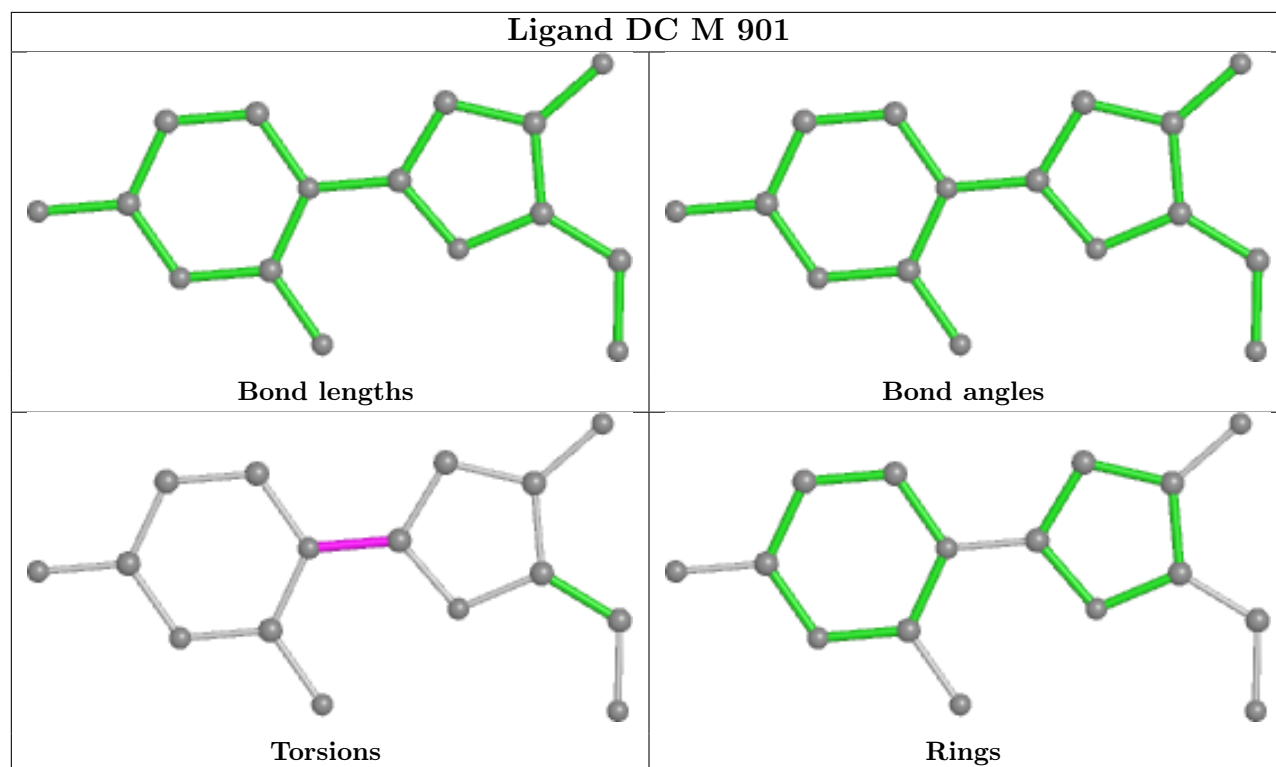
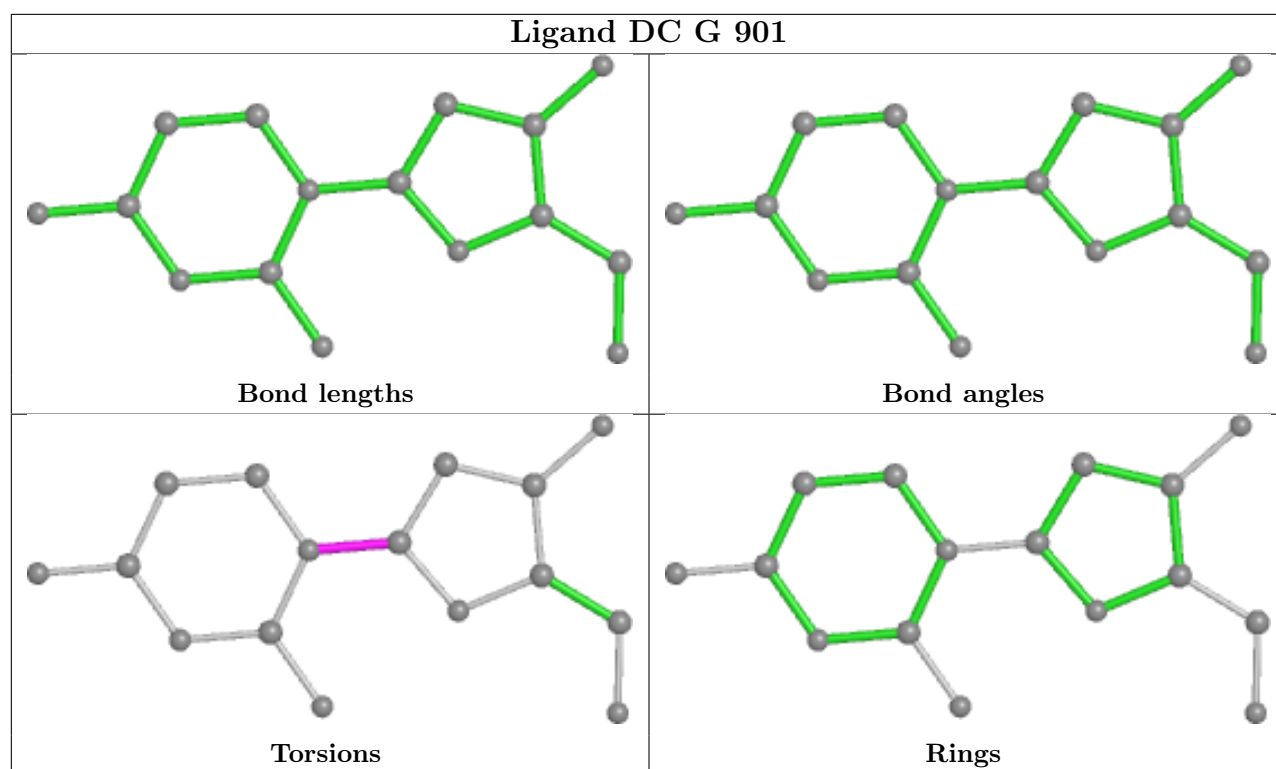


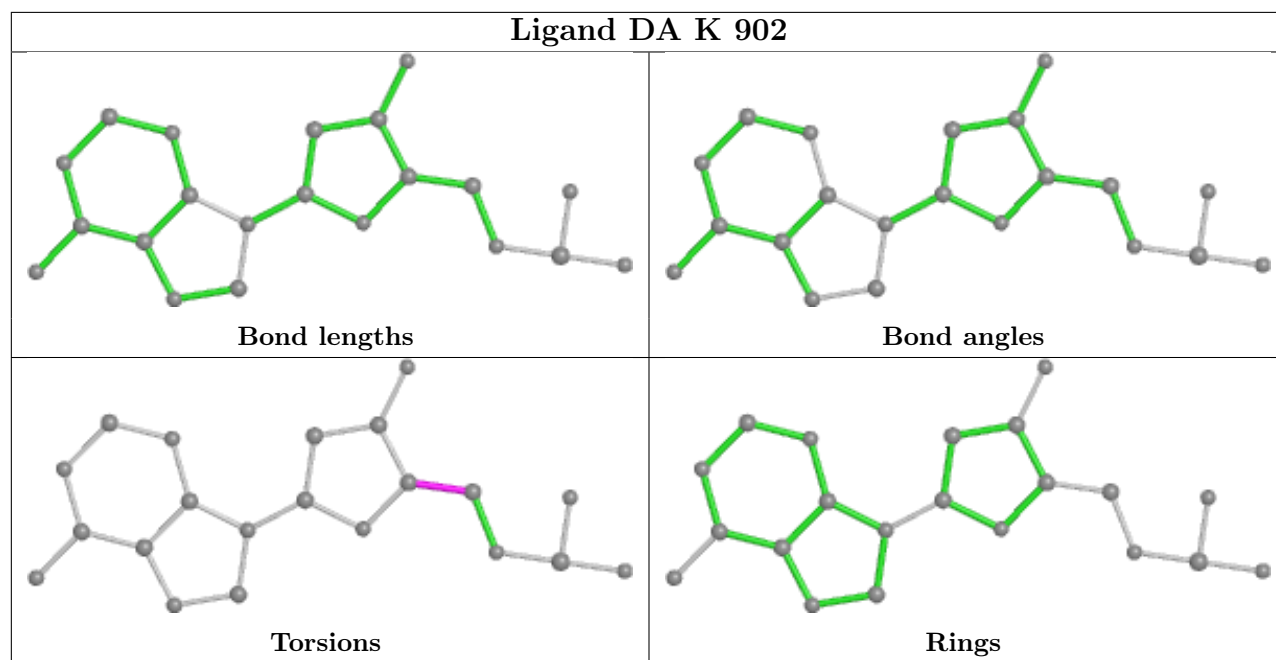
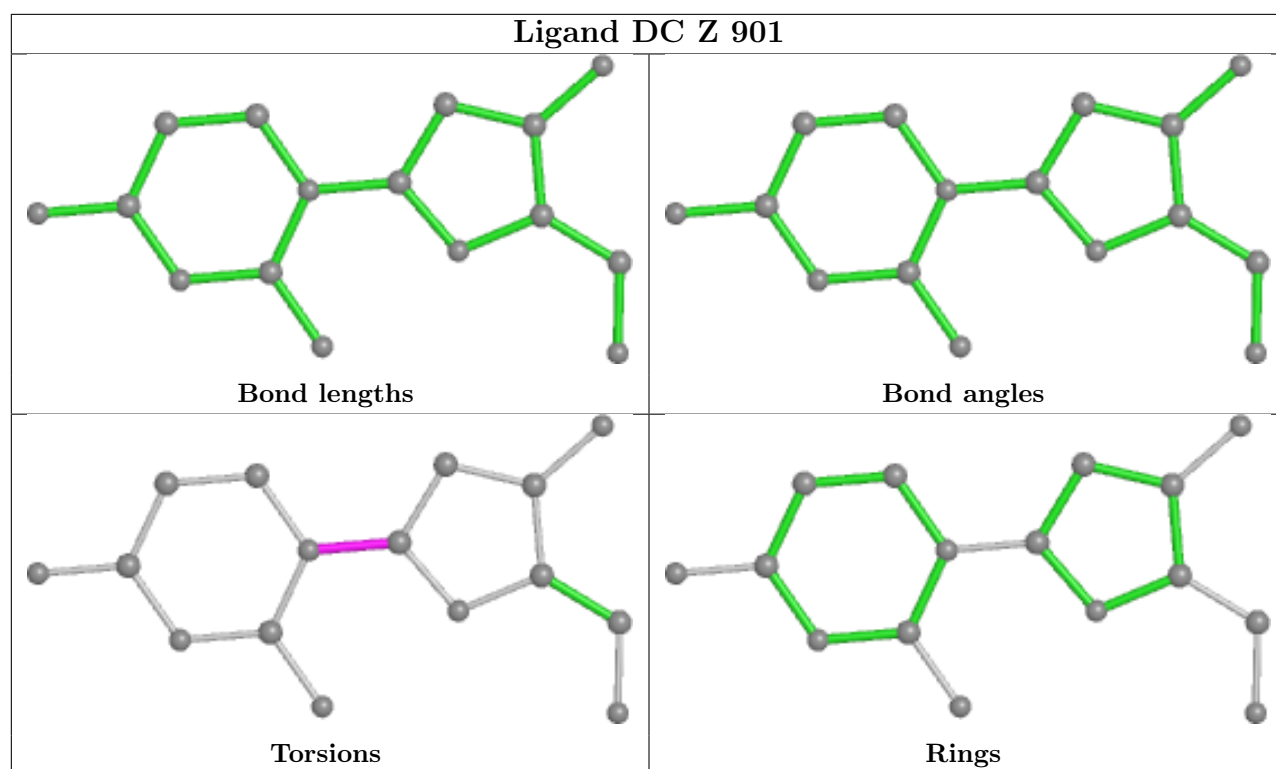


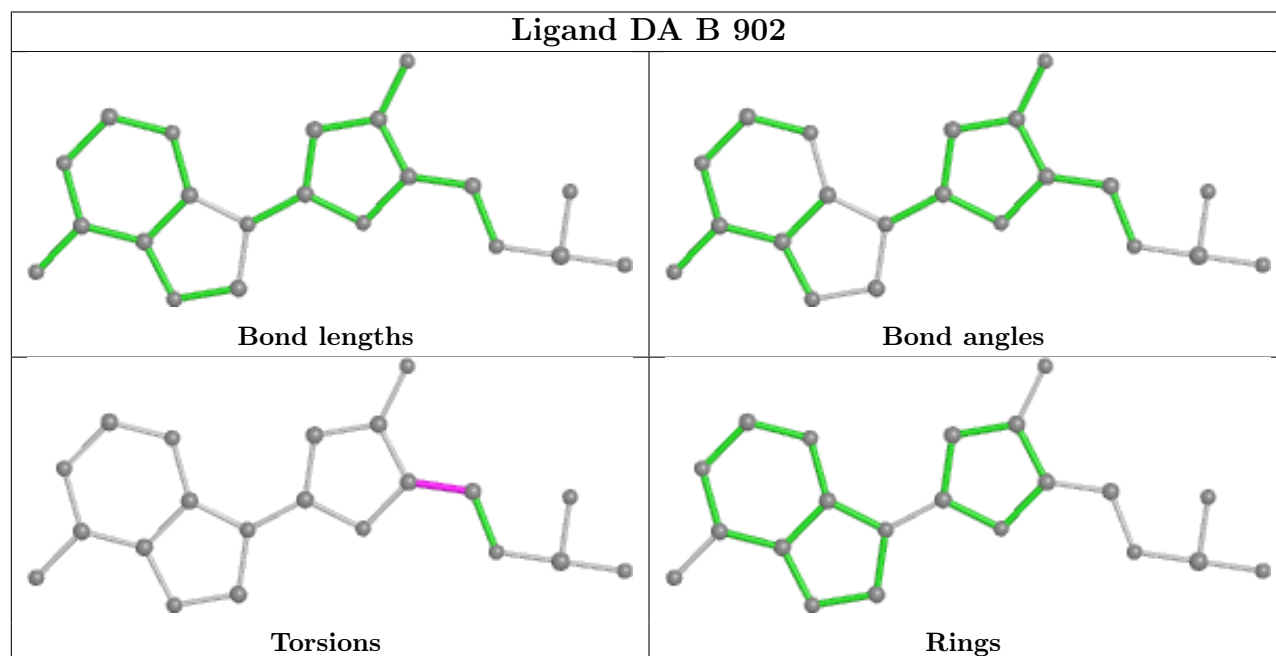
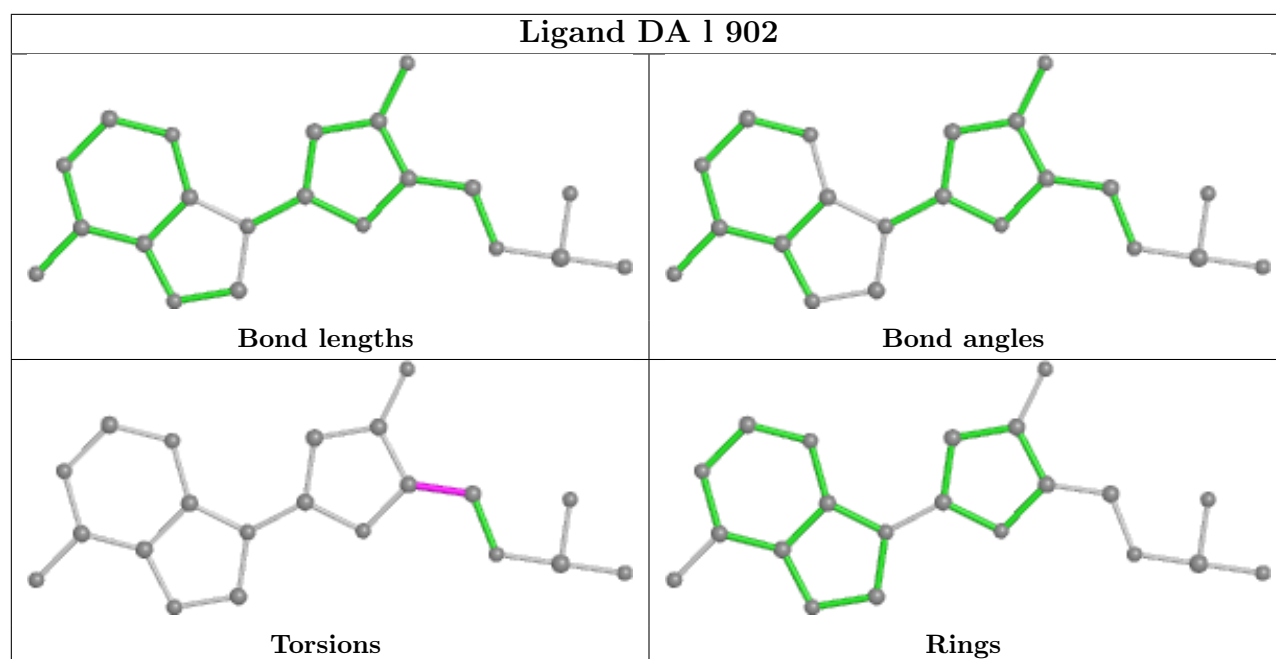


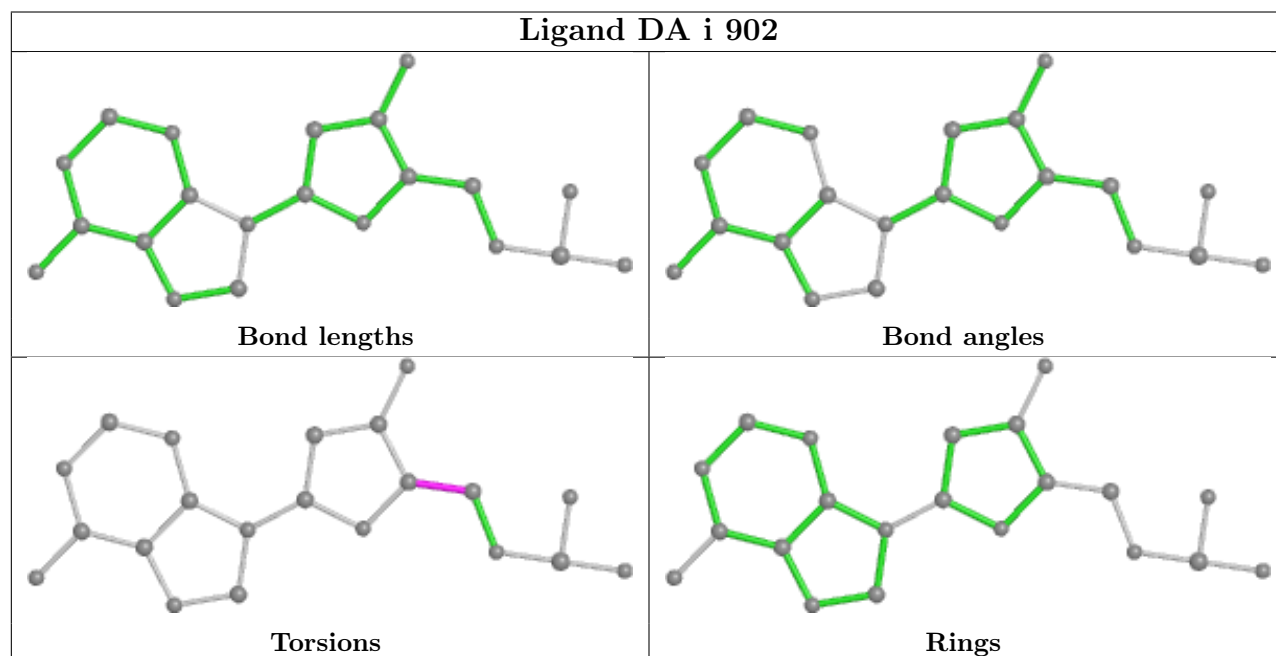
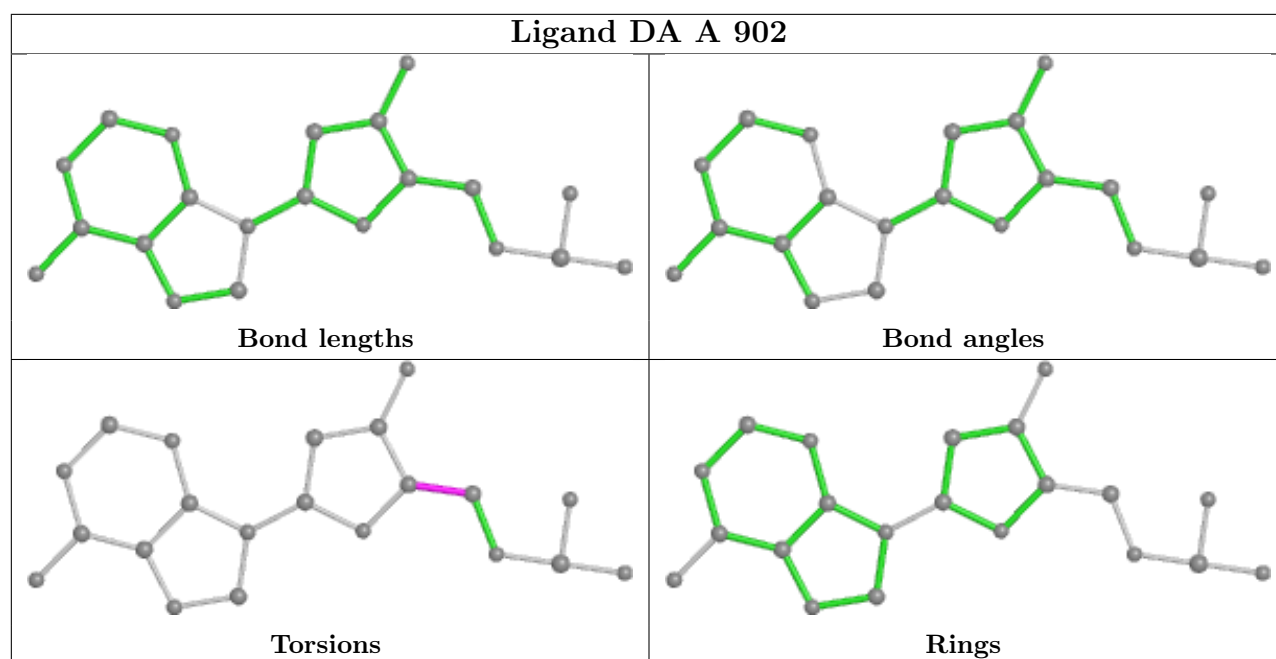


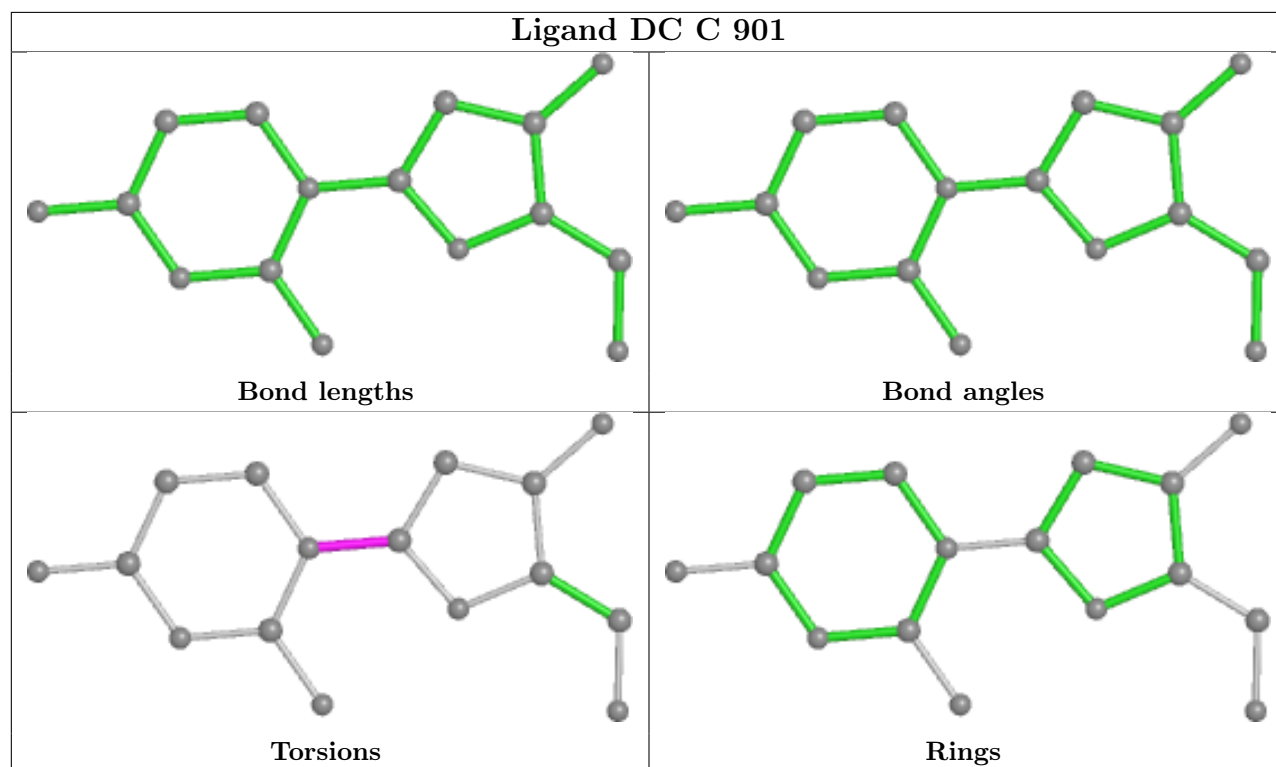
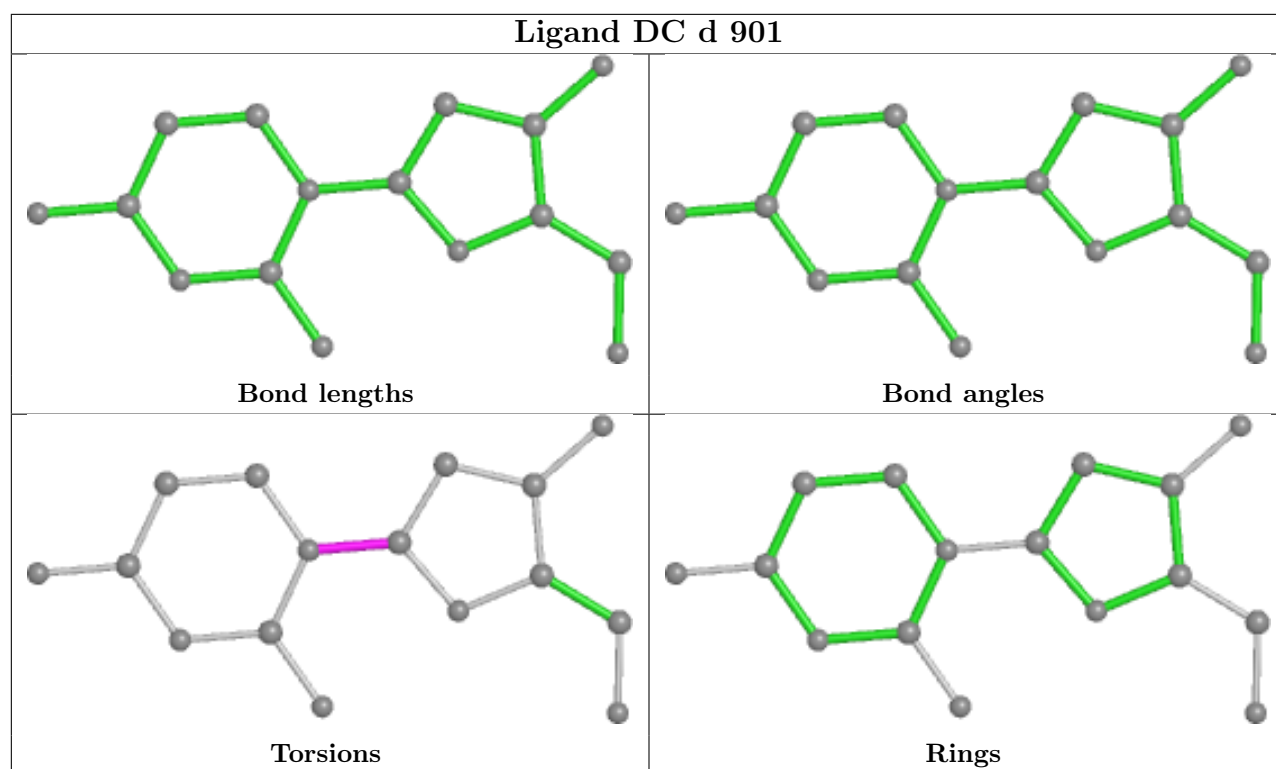




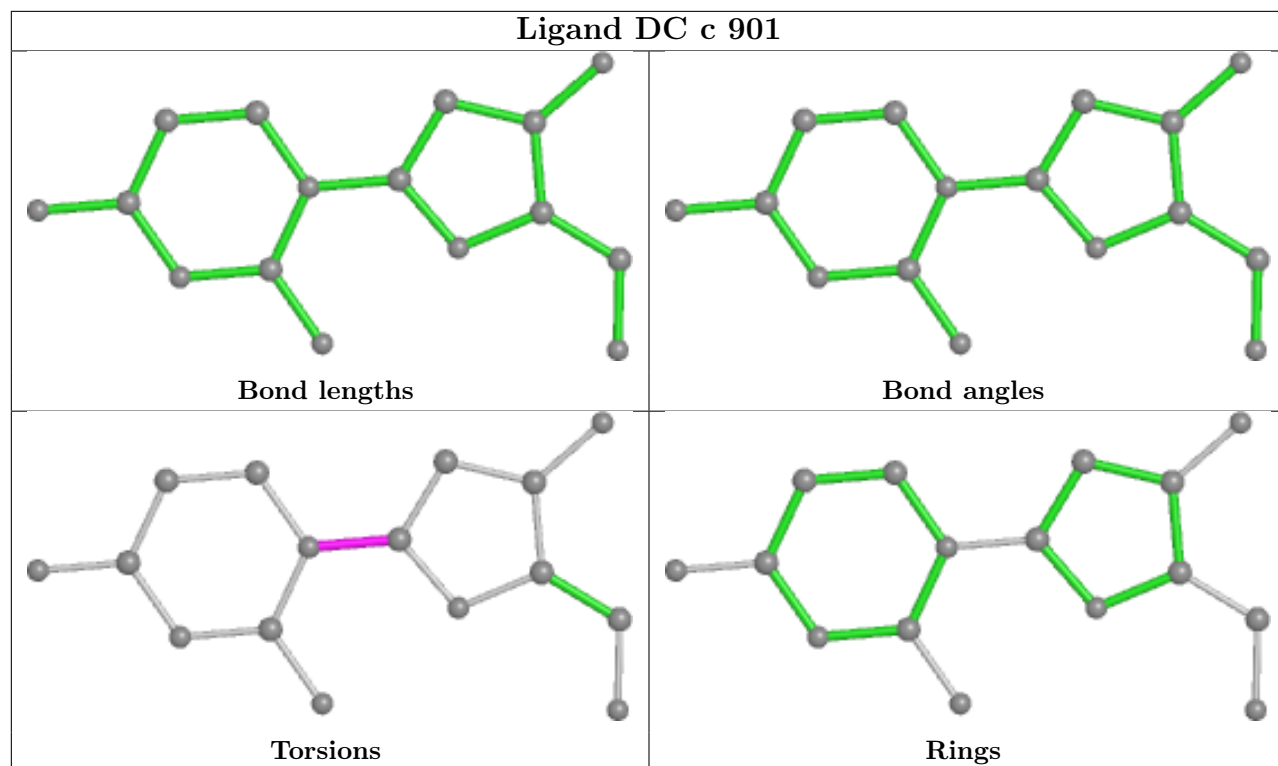




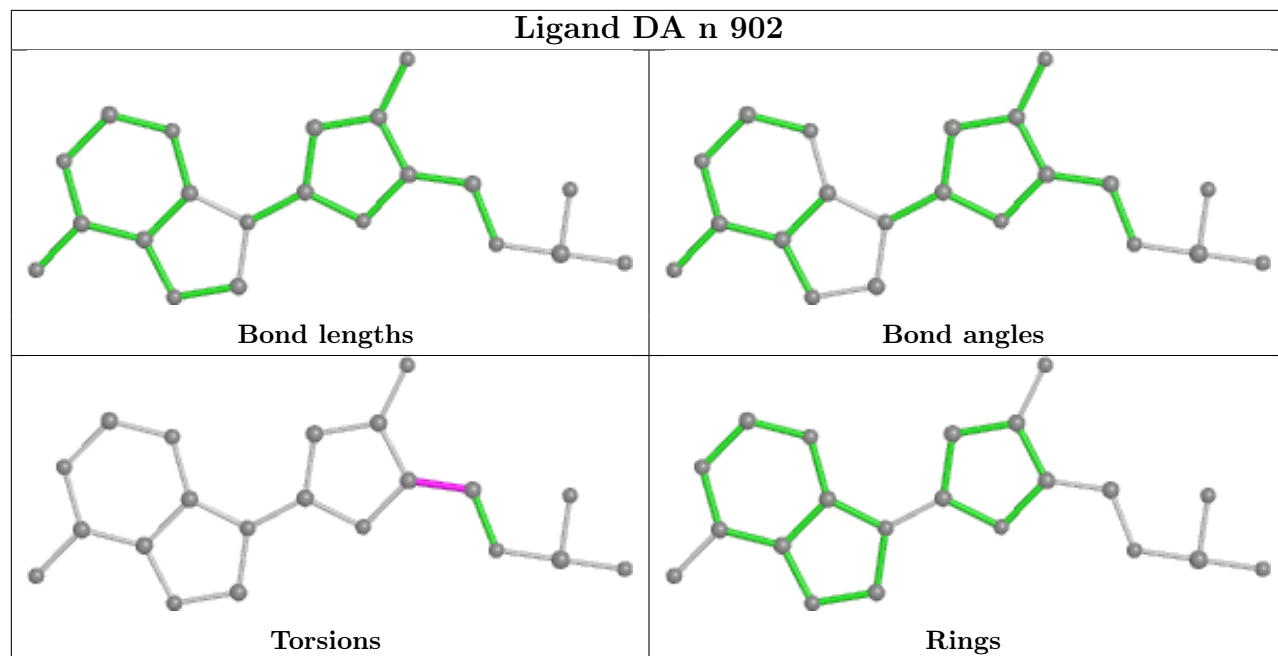


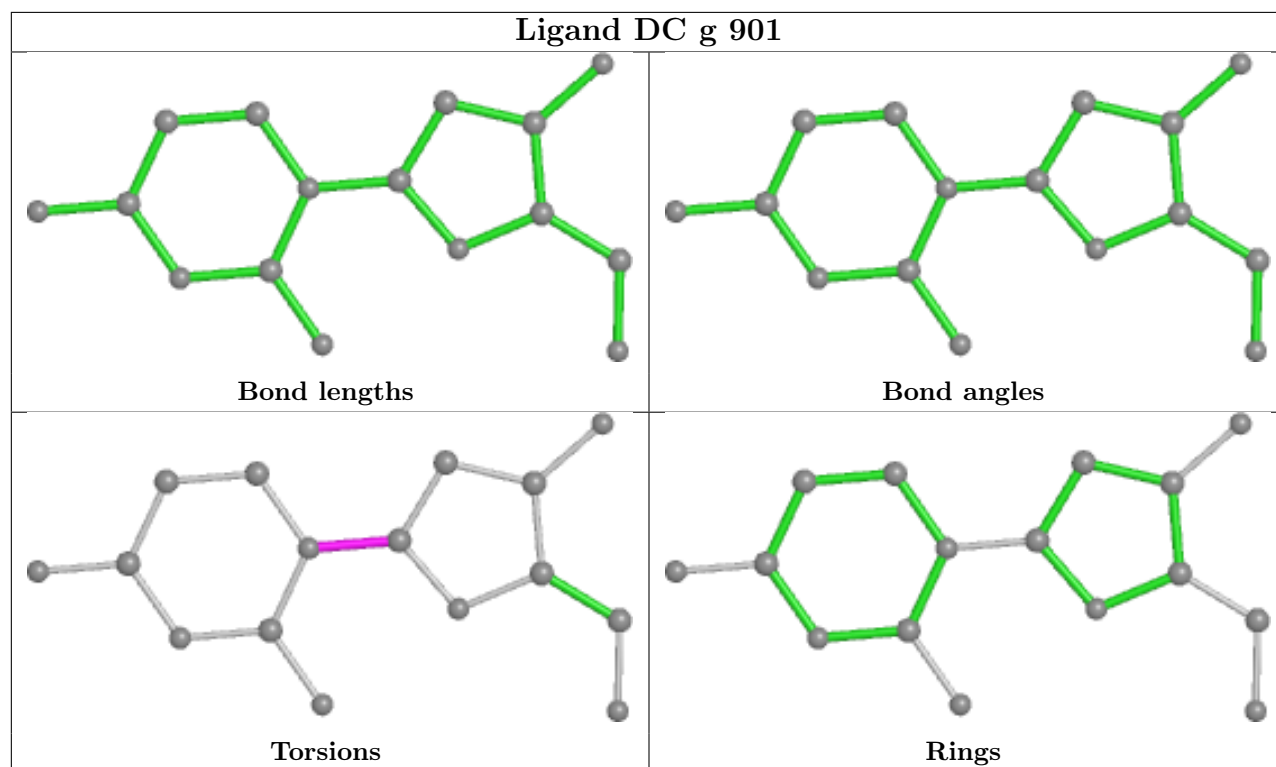
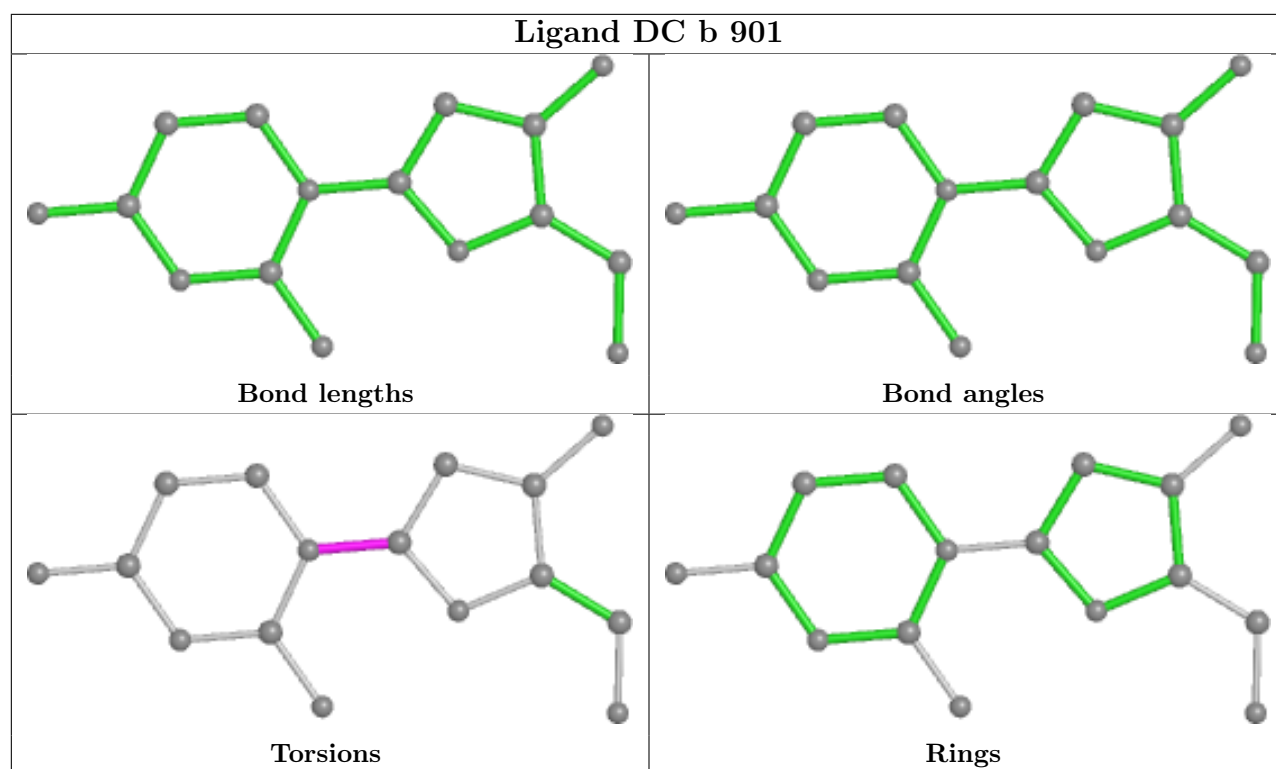


Ligand DC c 901

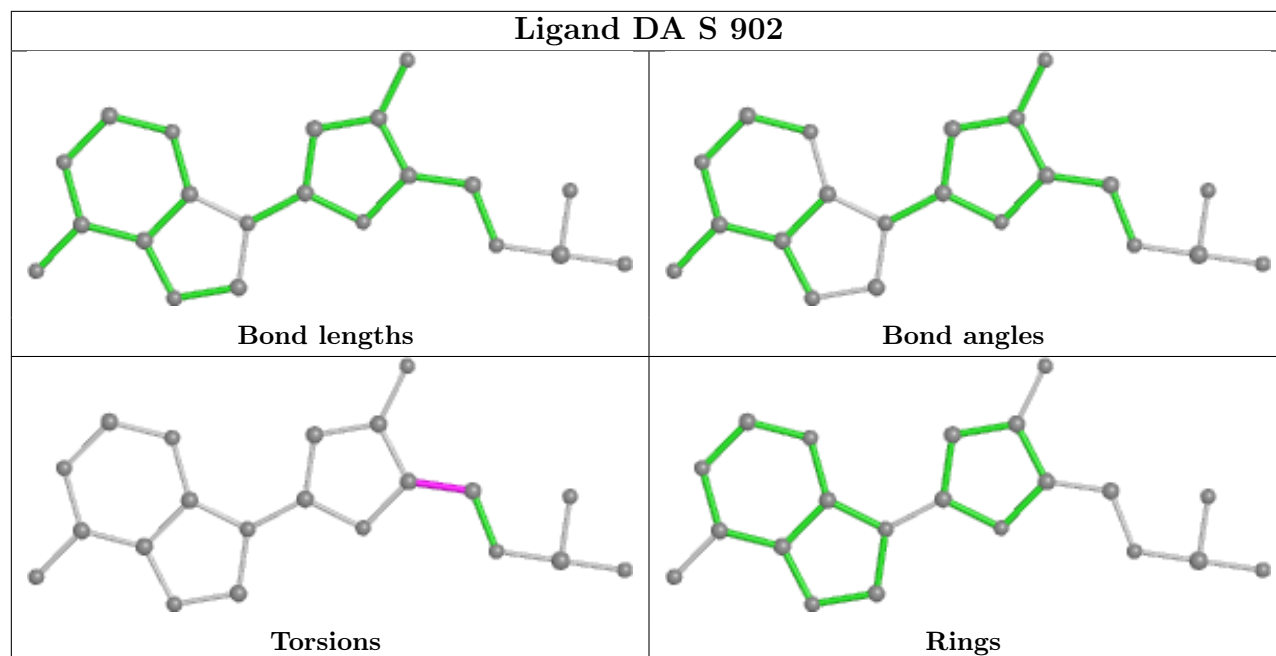


Ligand DA n 902

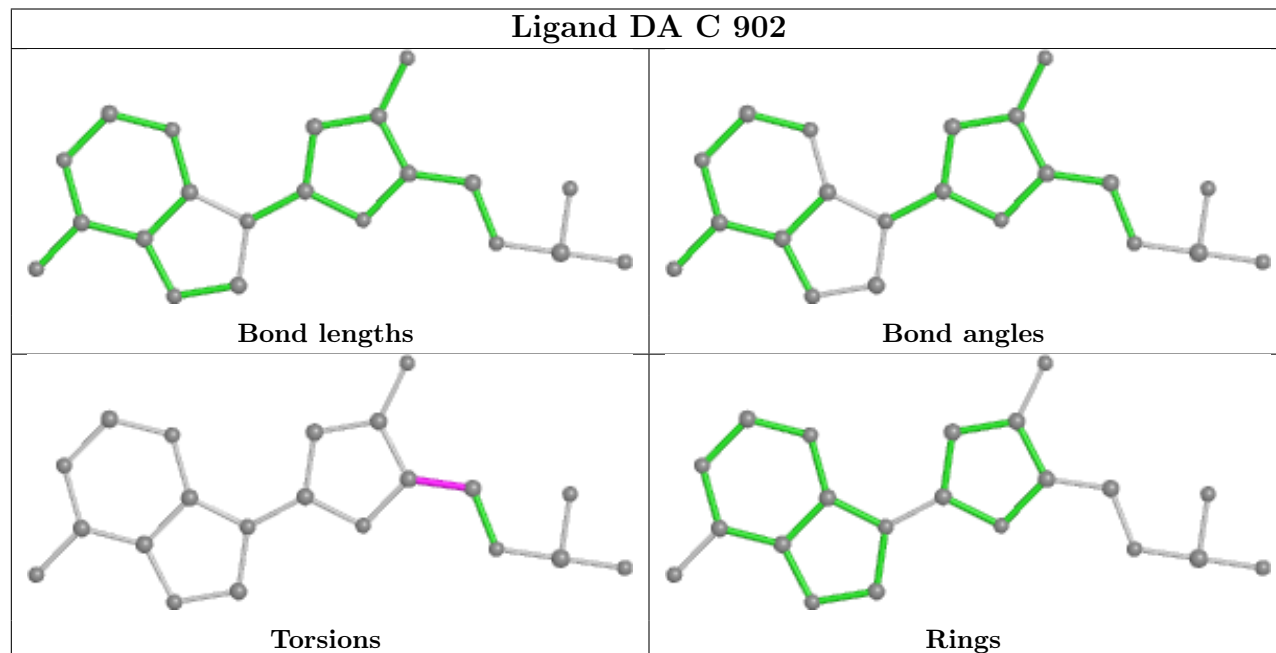


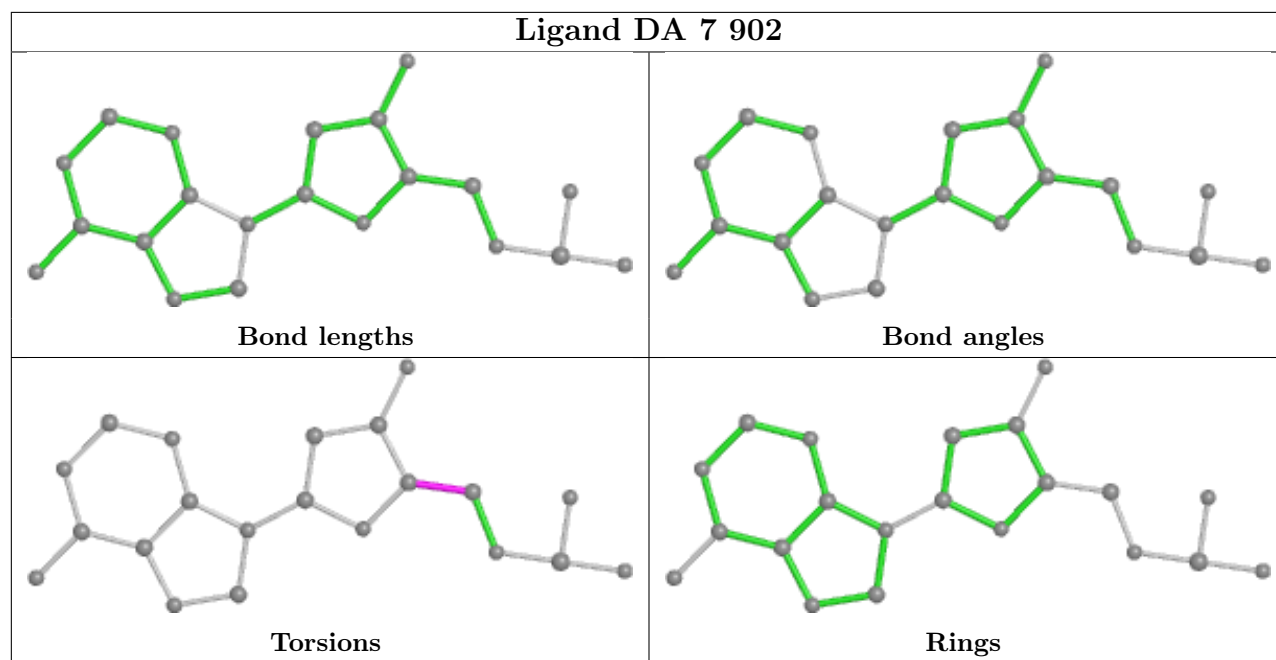
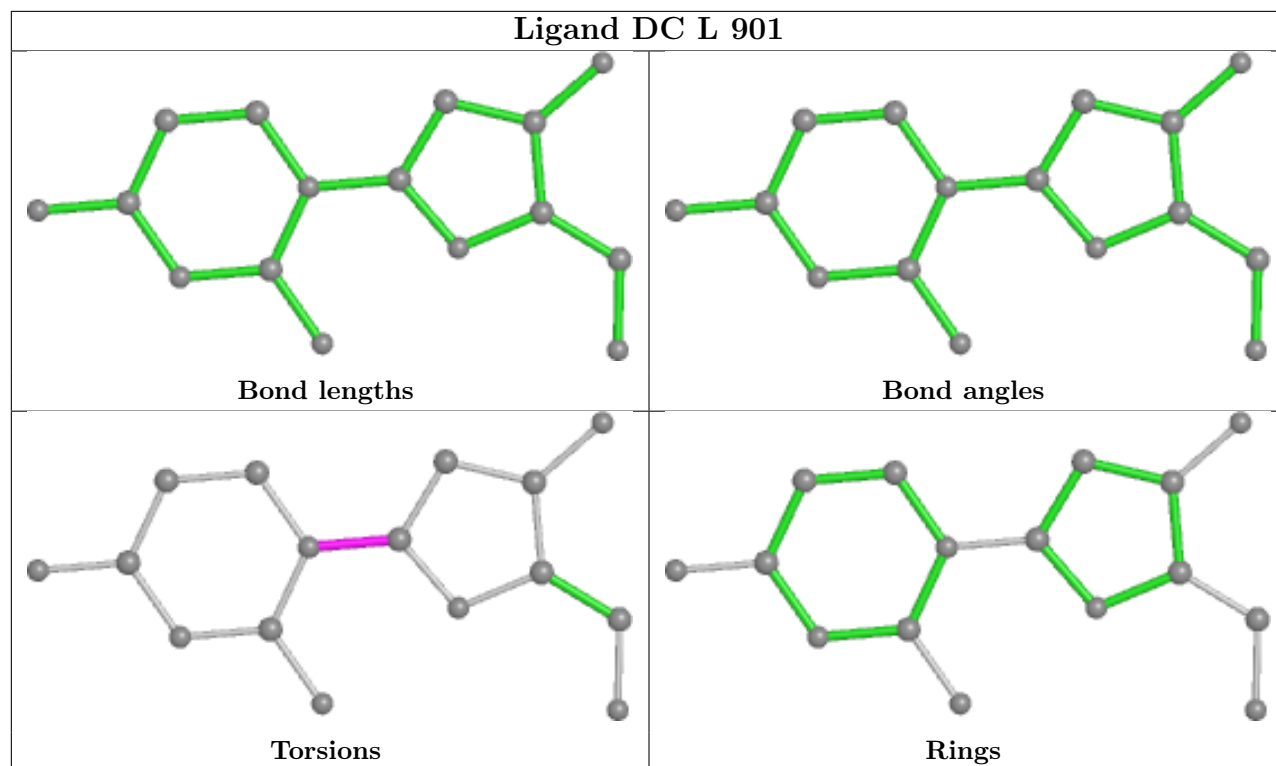


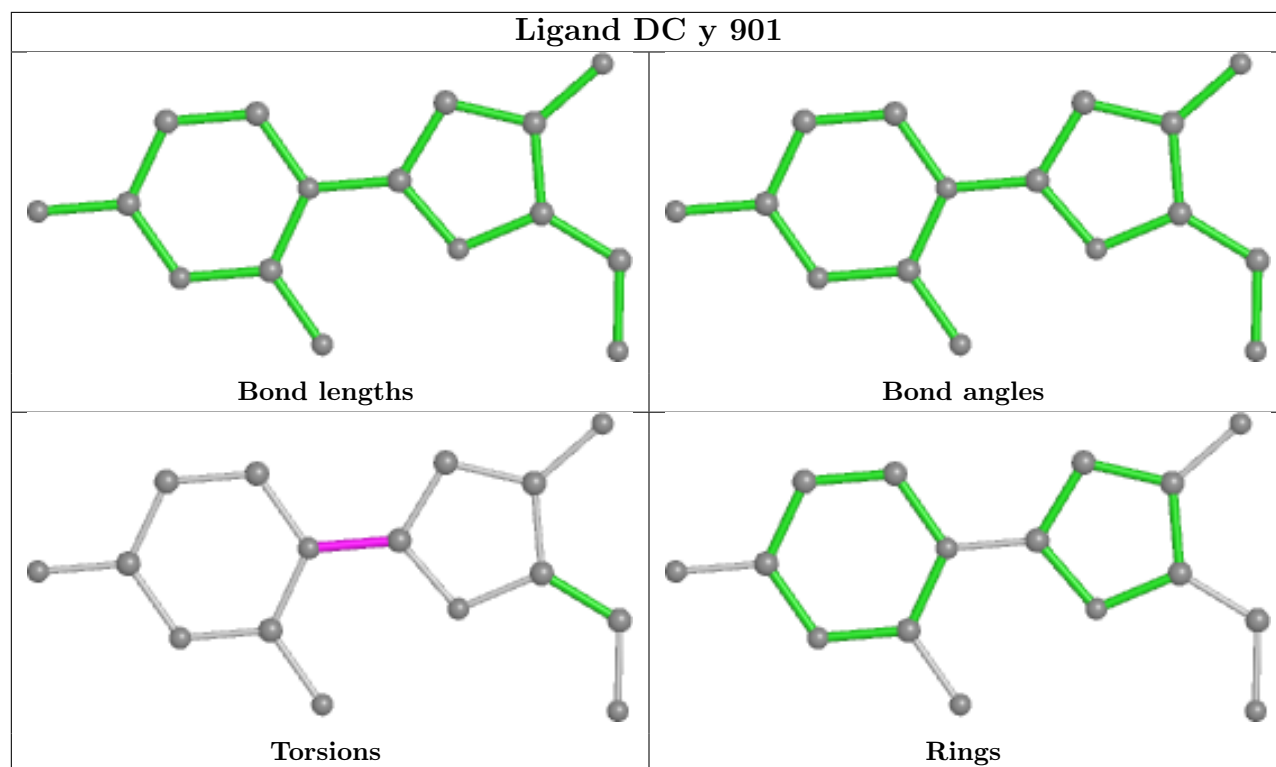
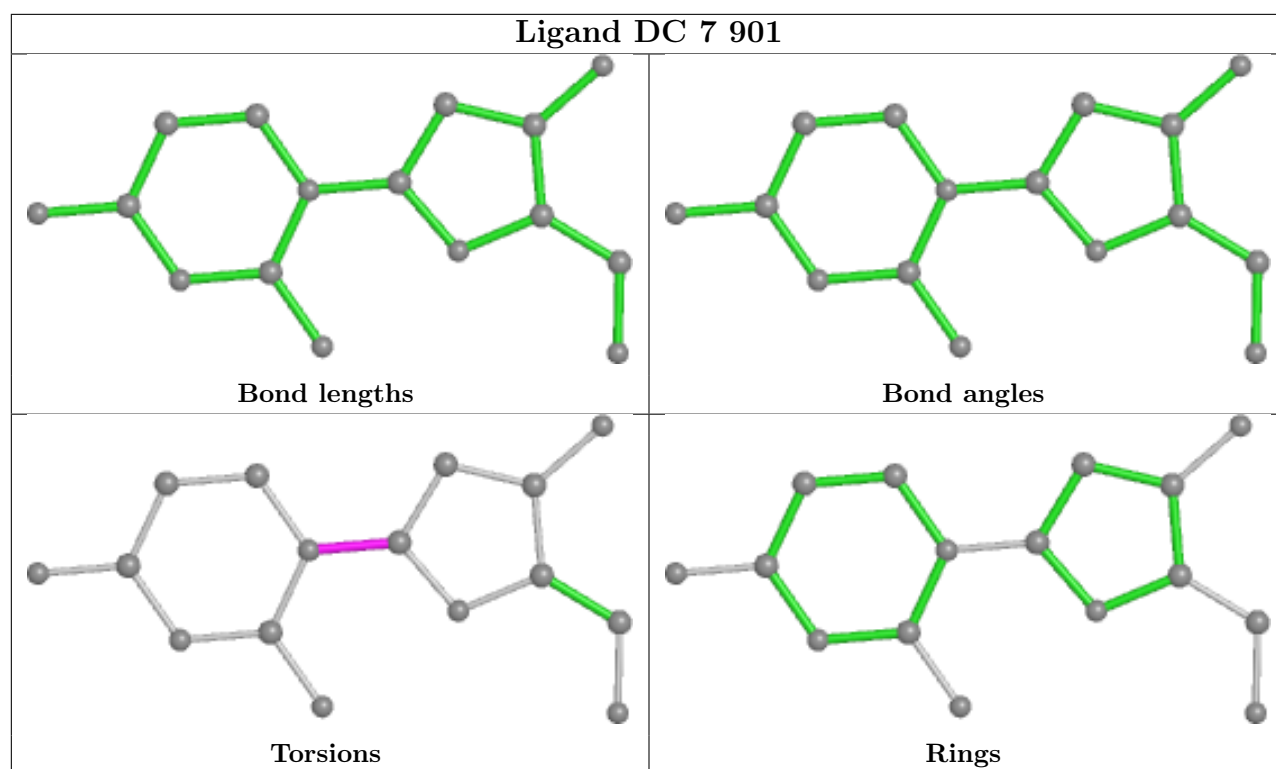
Ligand DA S 902

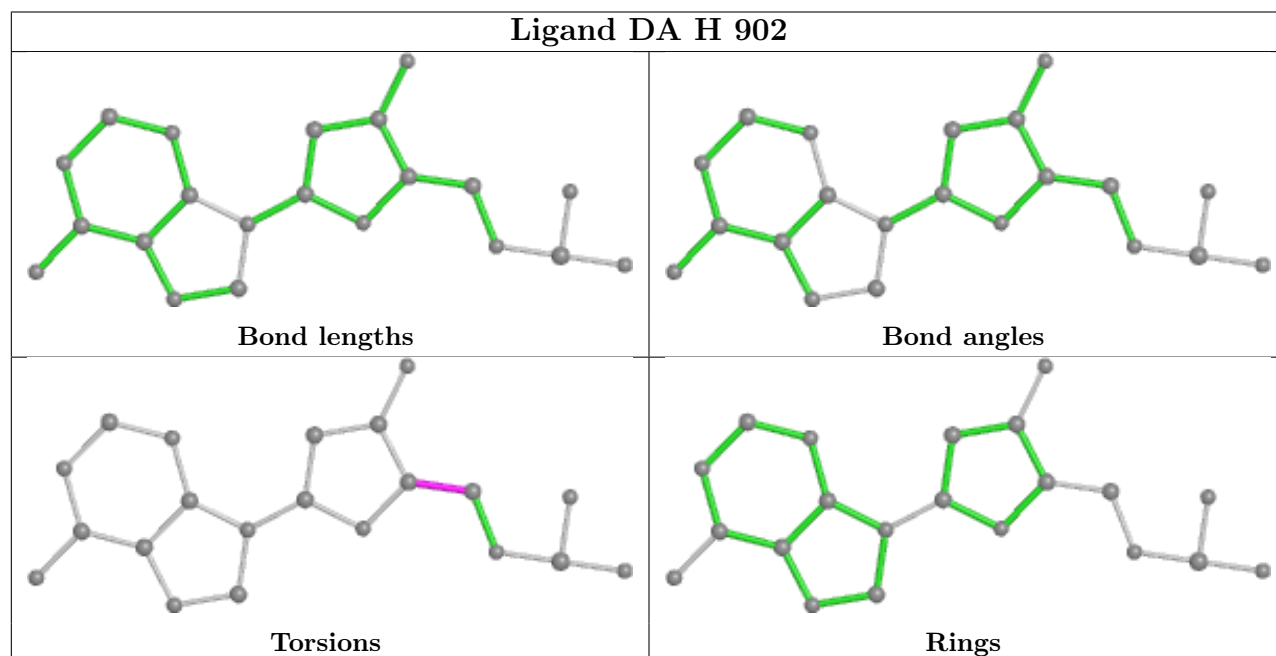
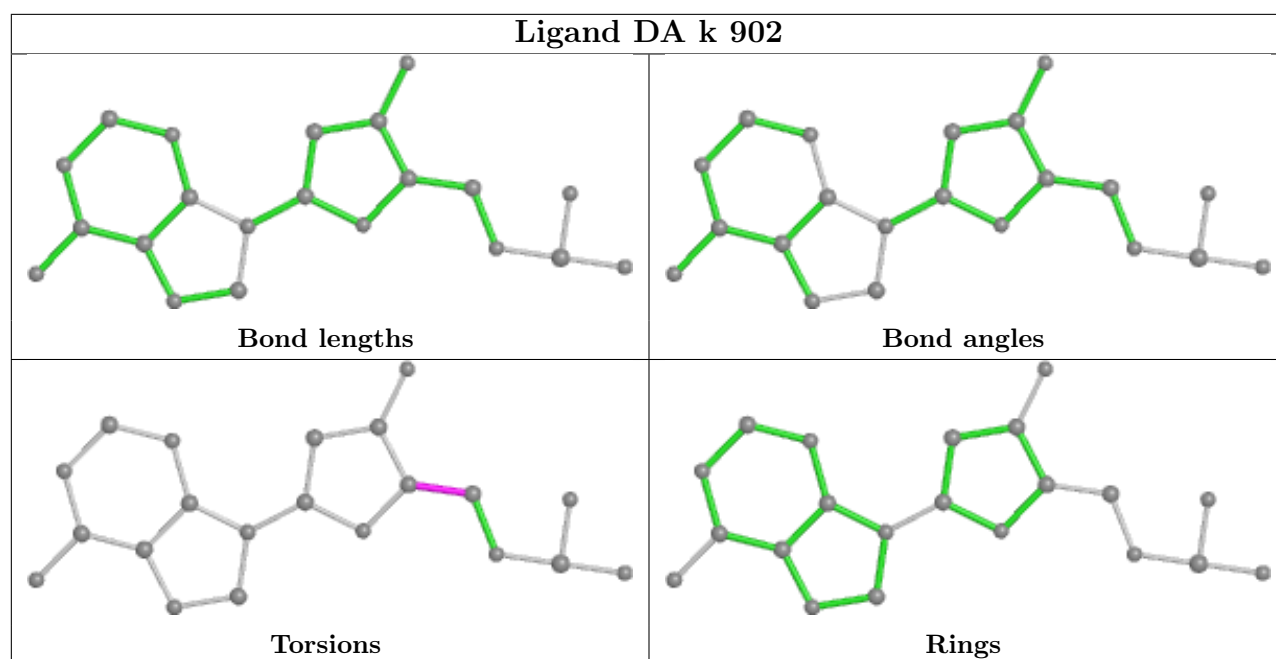


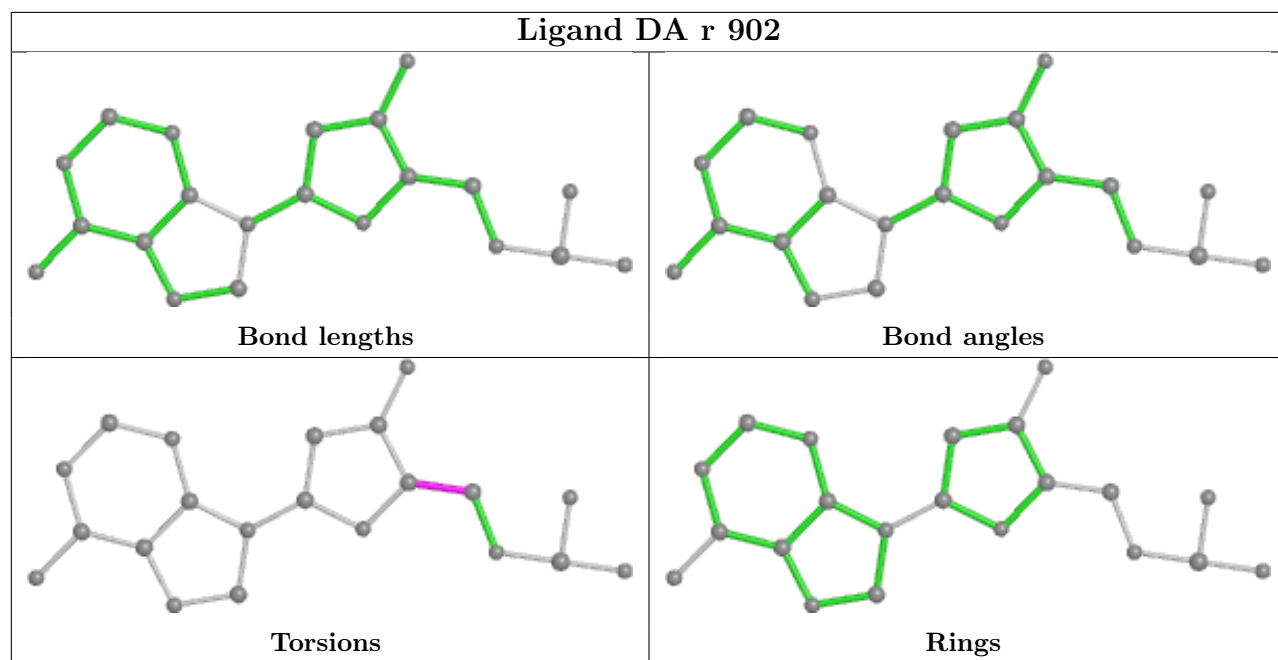
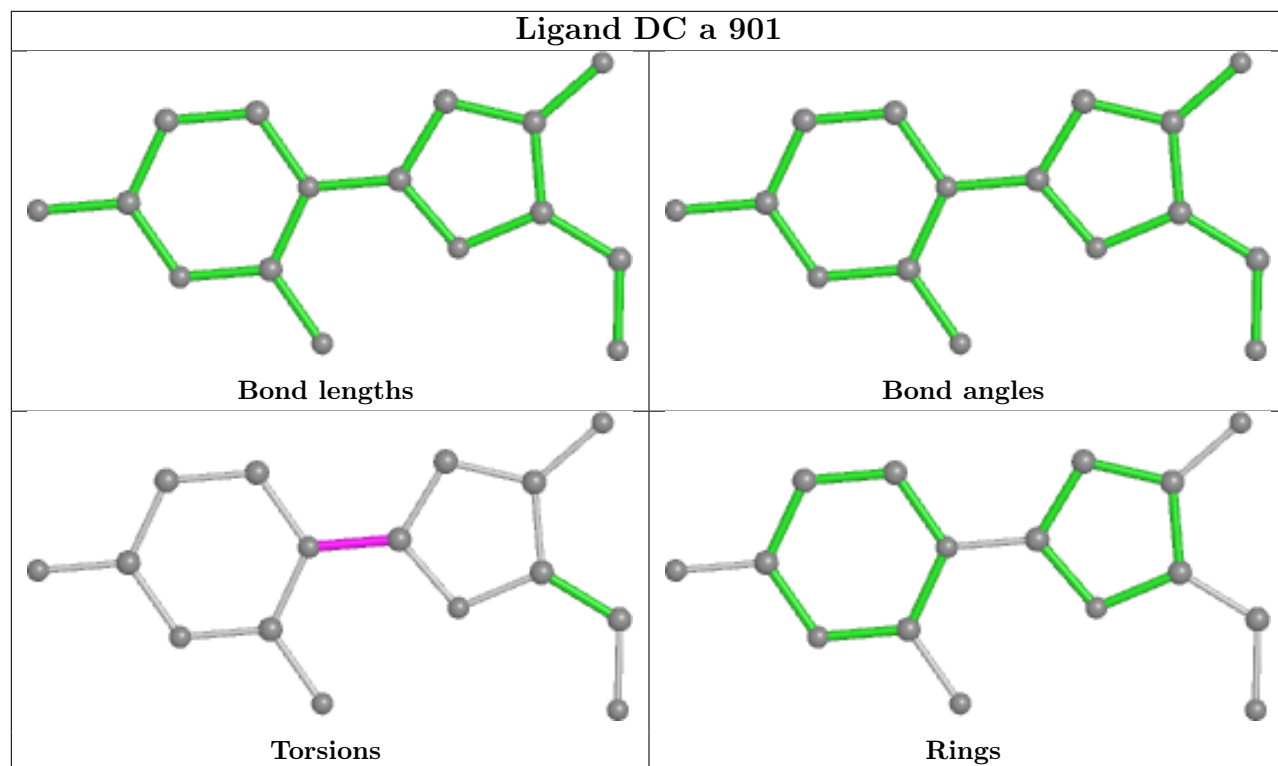
Ligand DA C 902

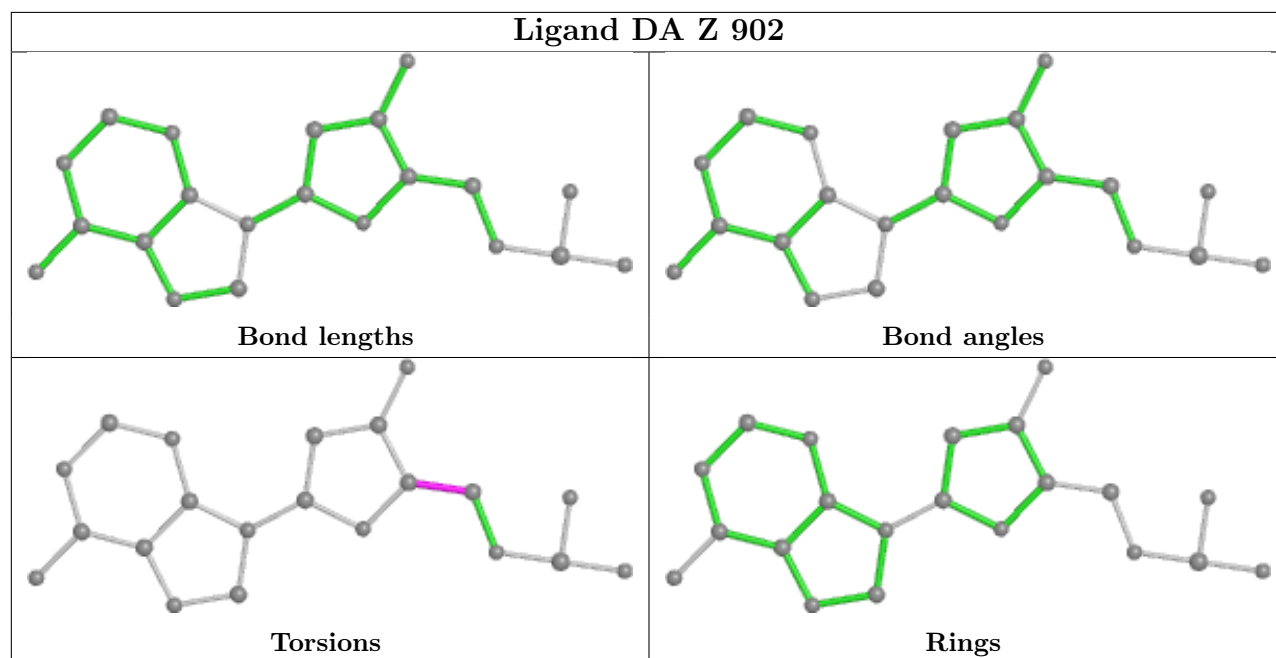
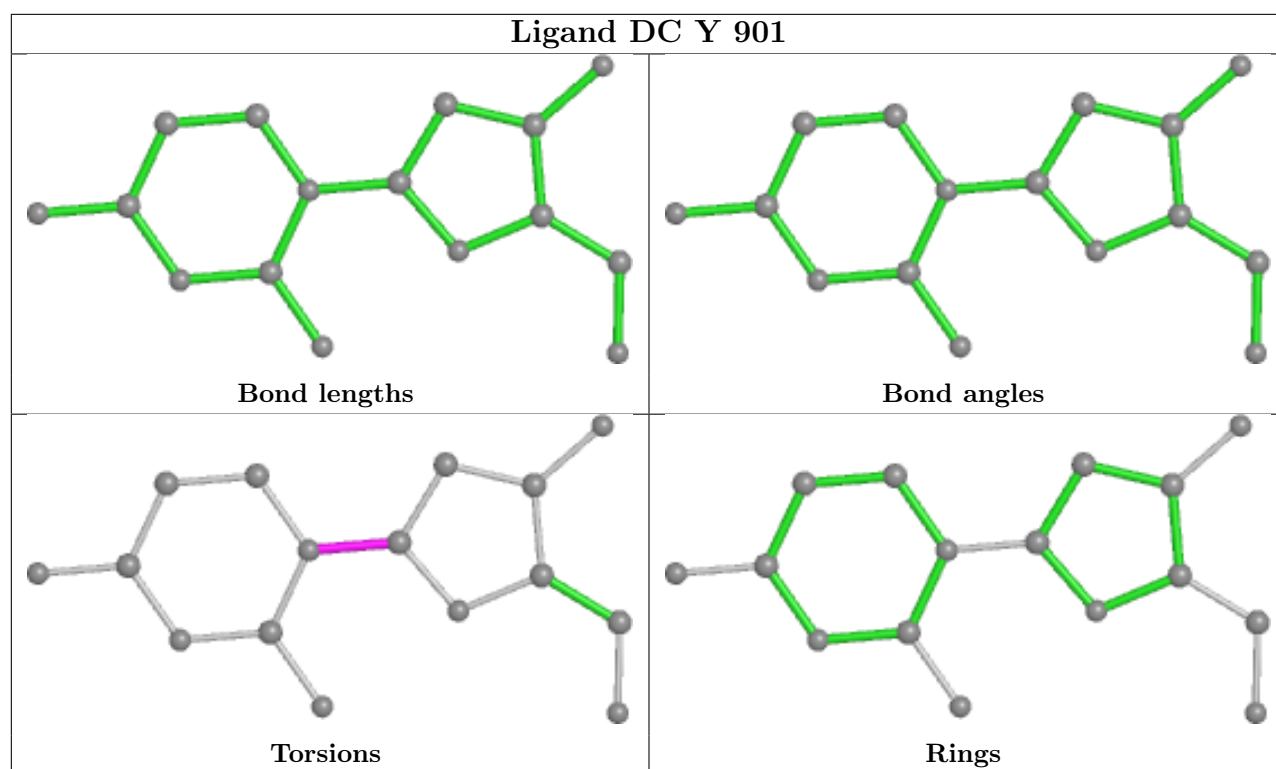


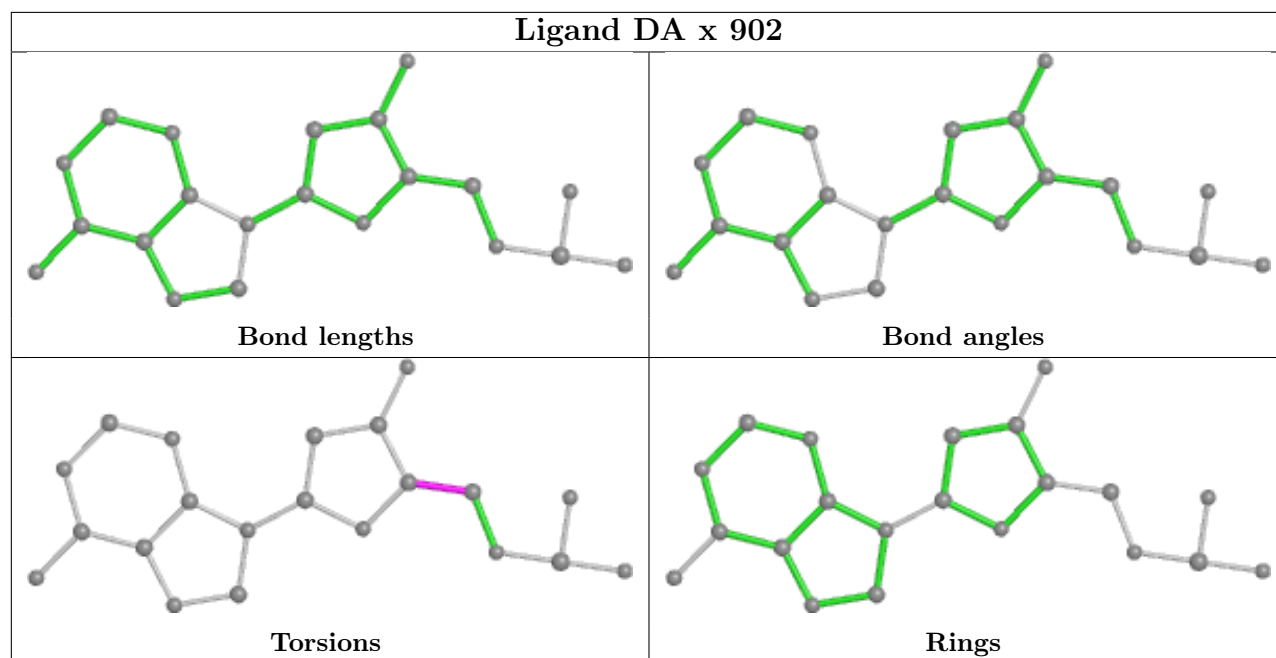
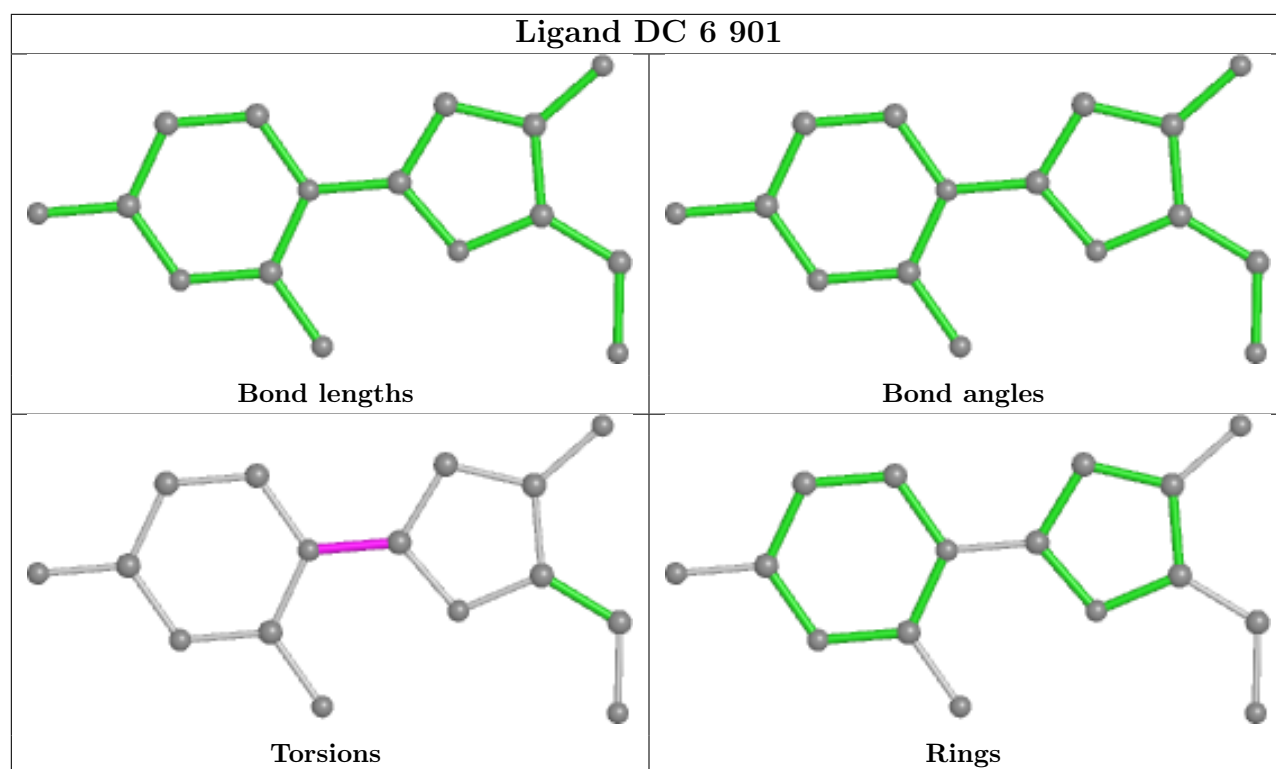




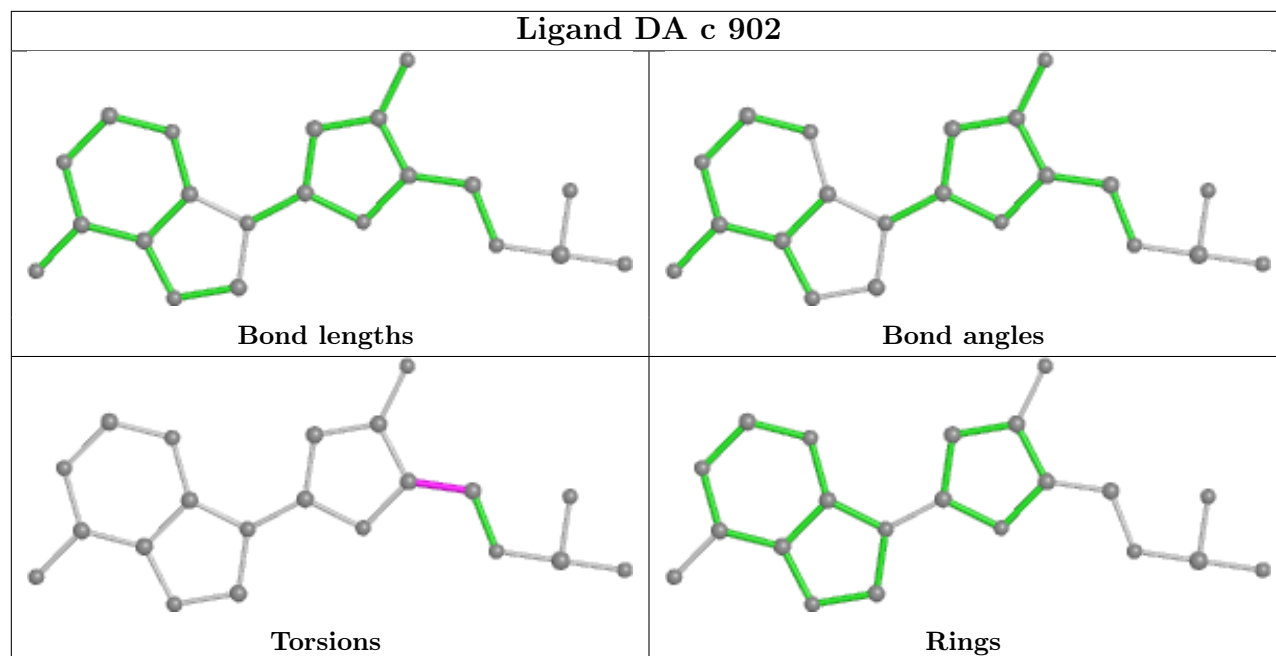




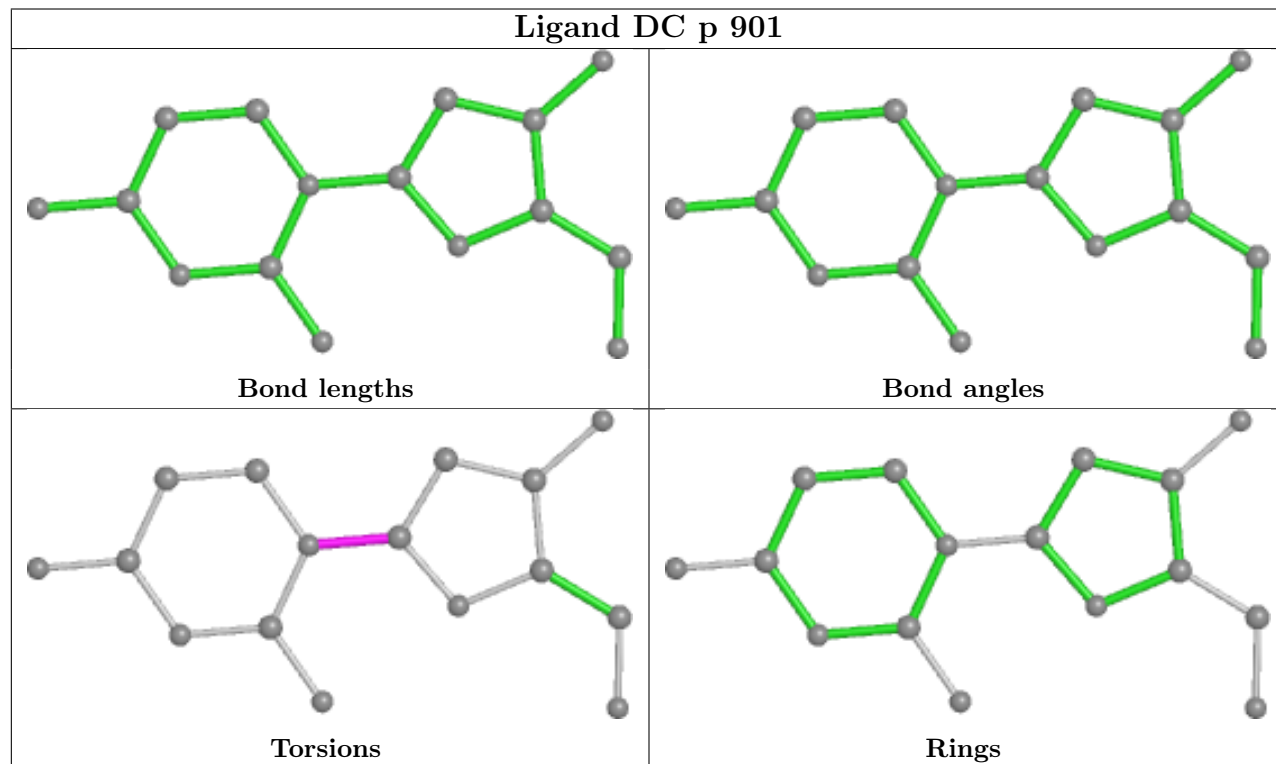


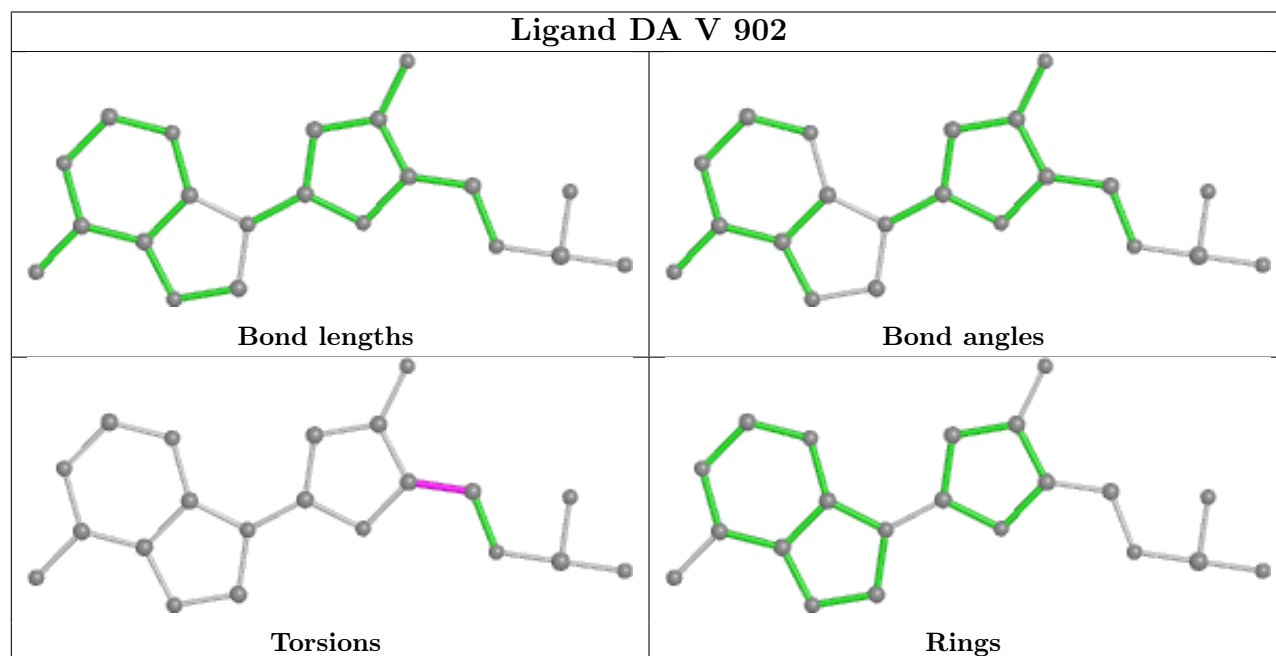
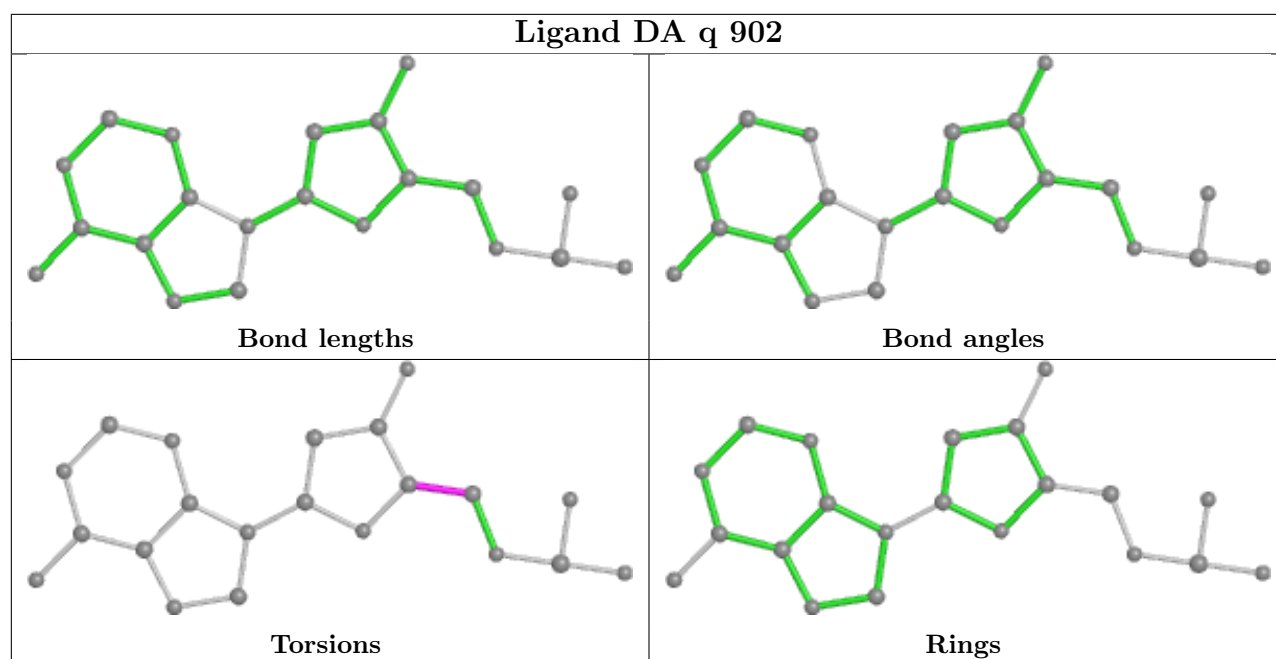


Ligand DA c 902

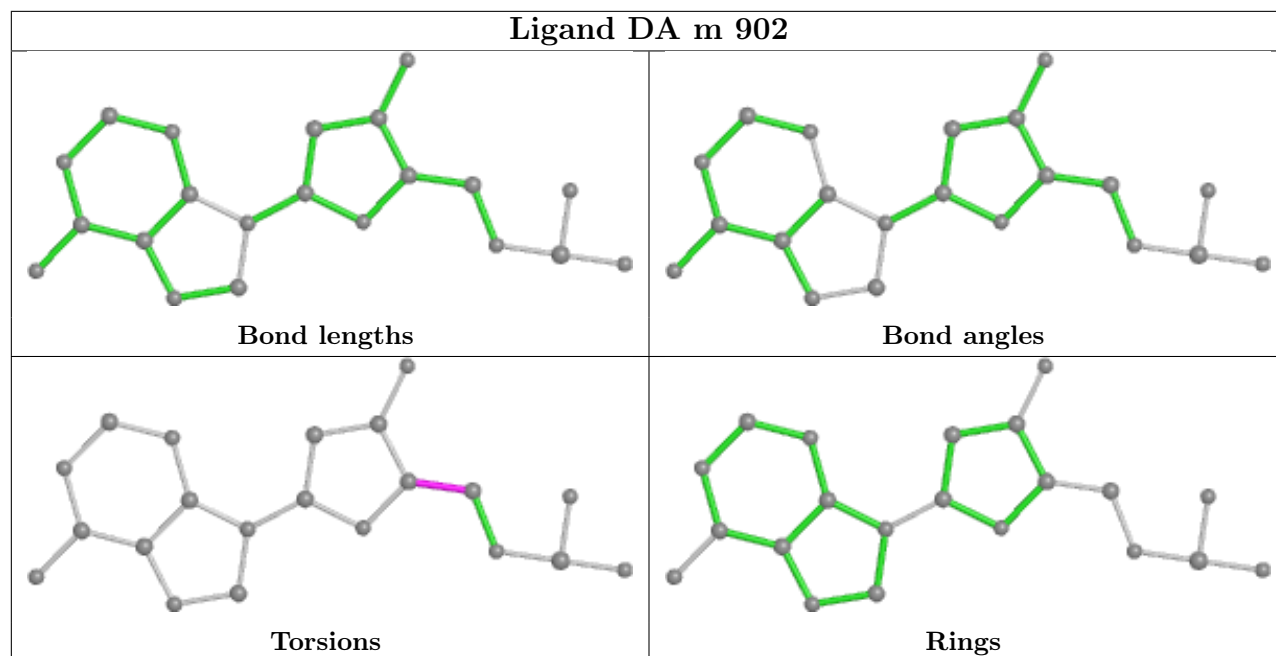


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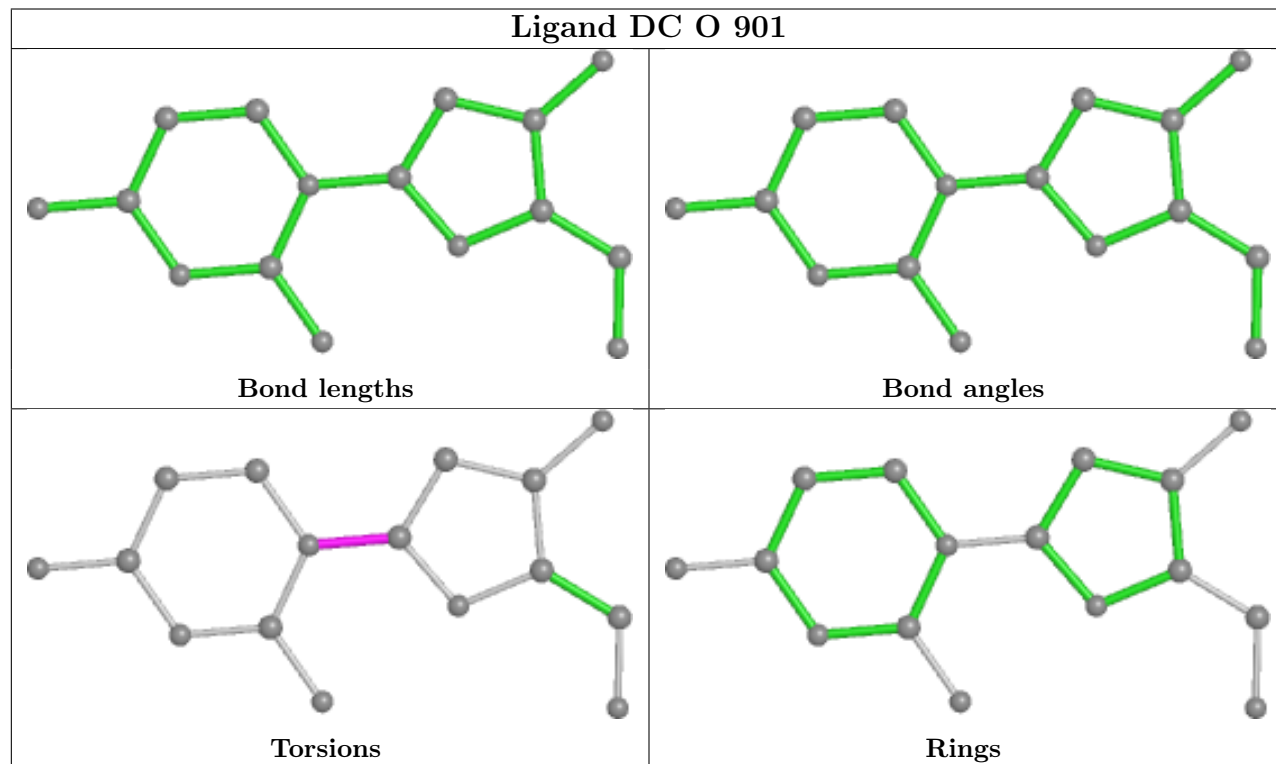




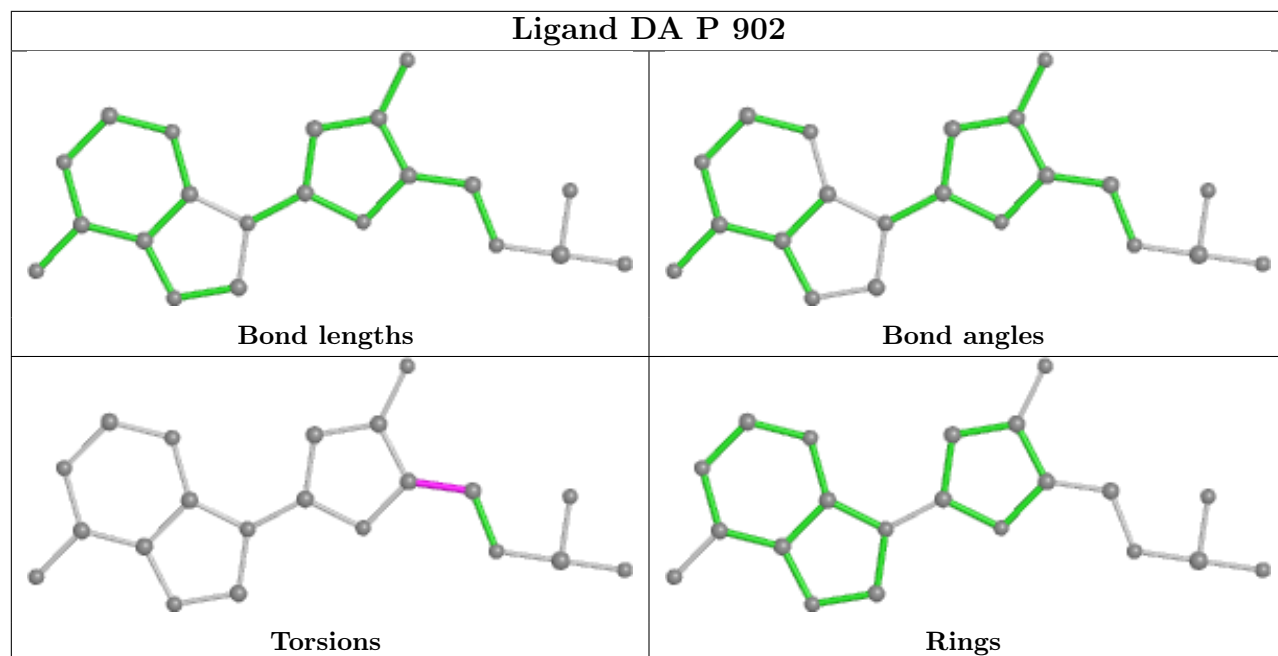
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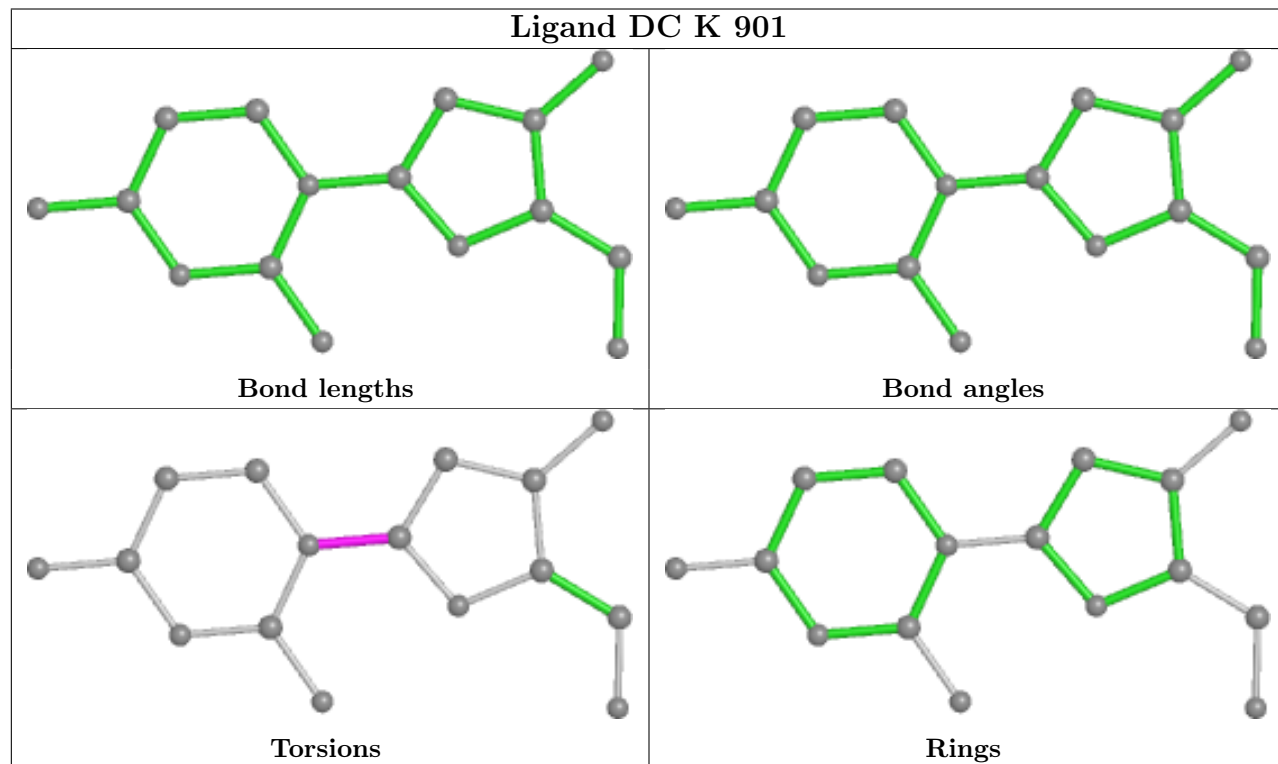
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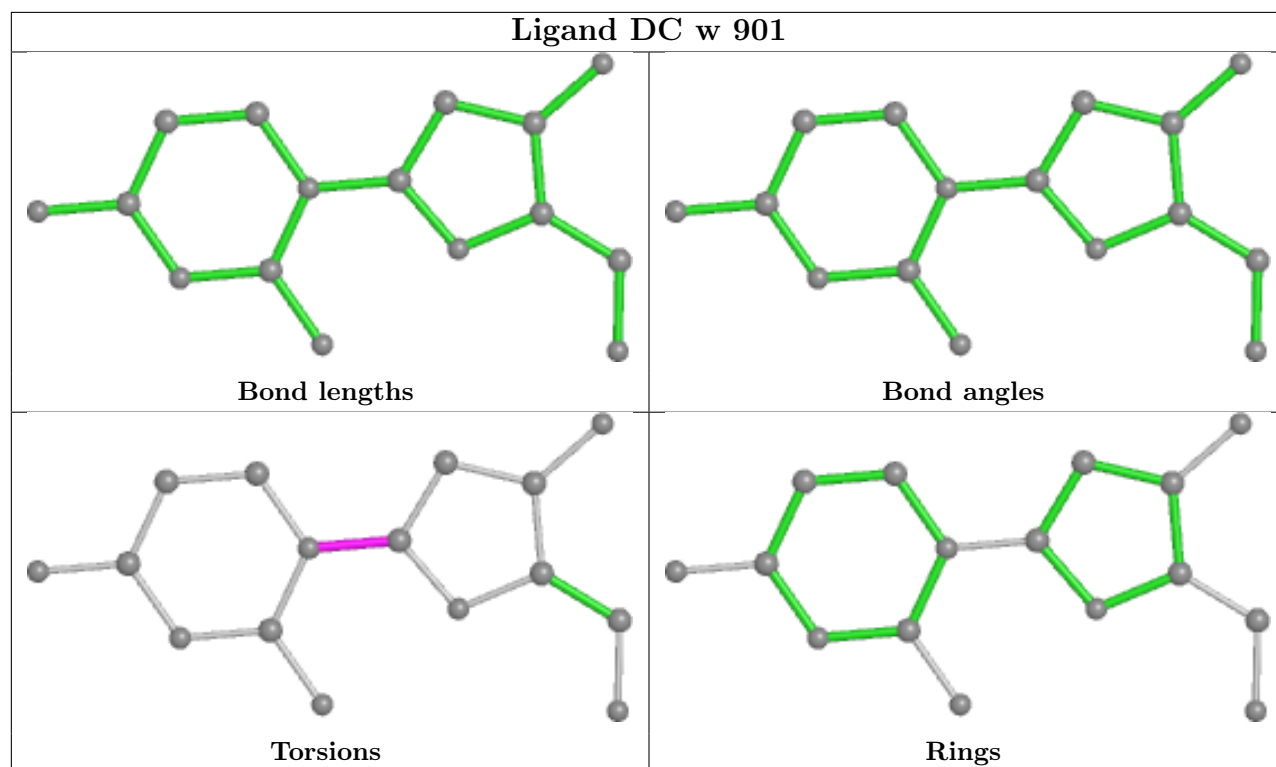
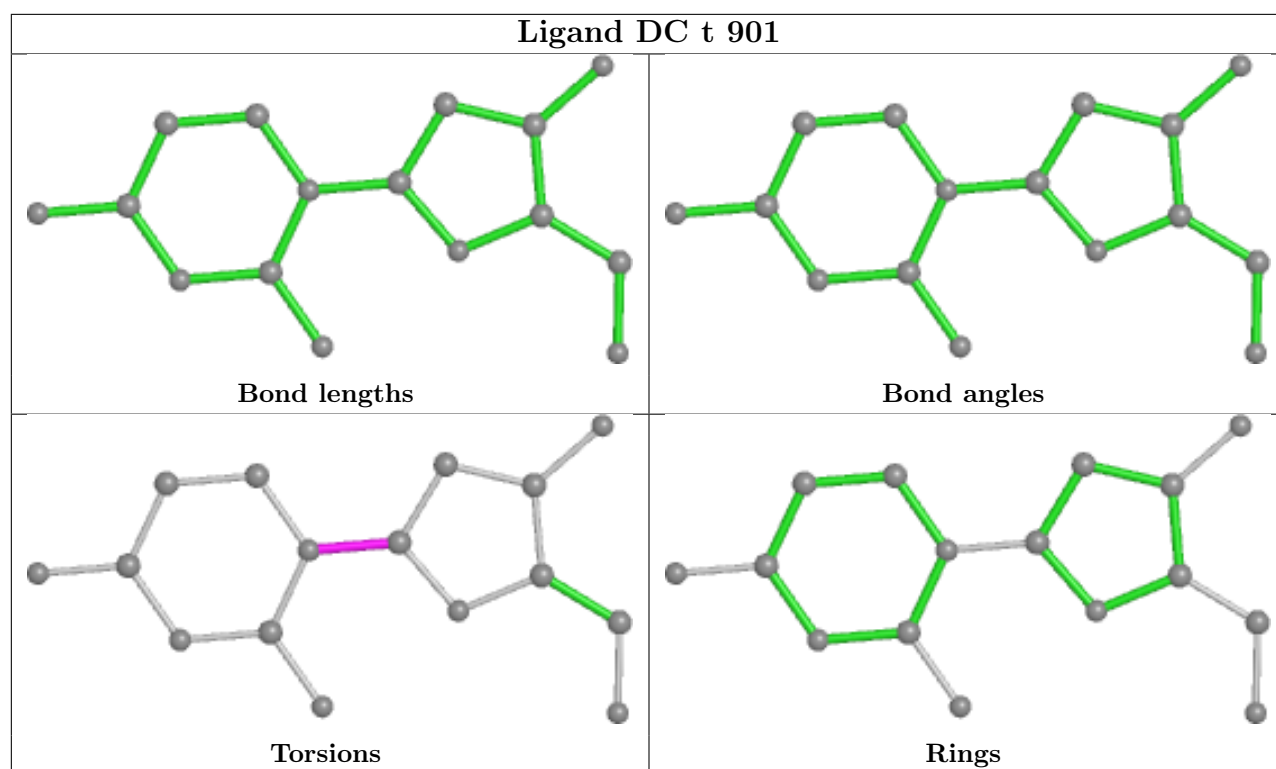


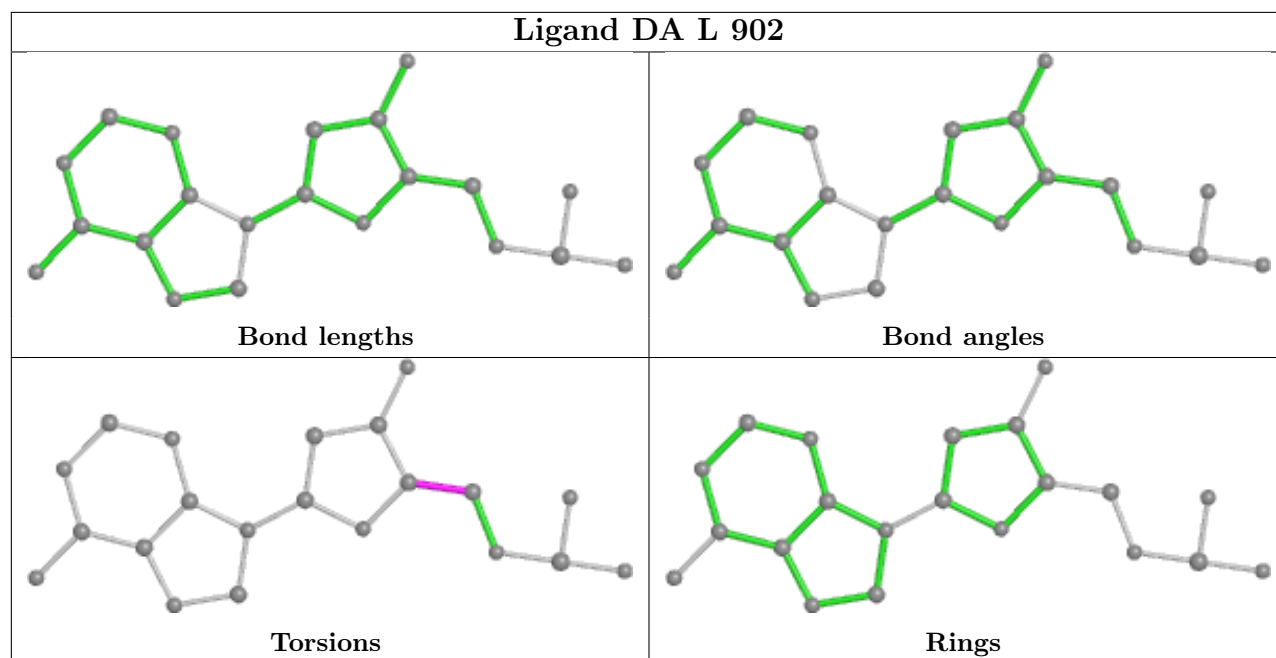
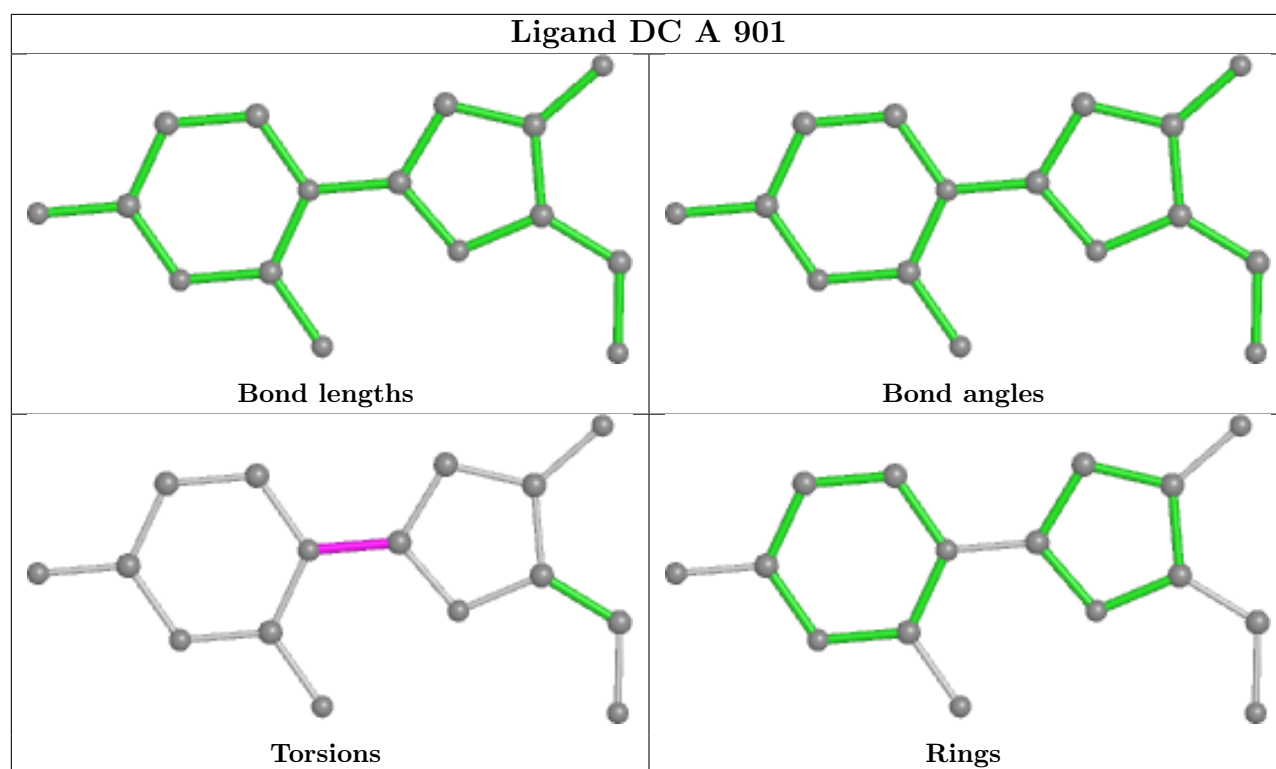
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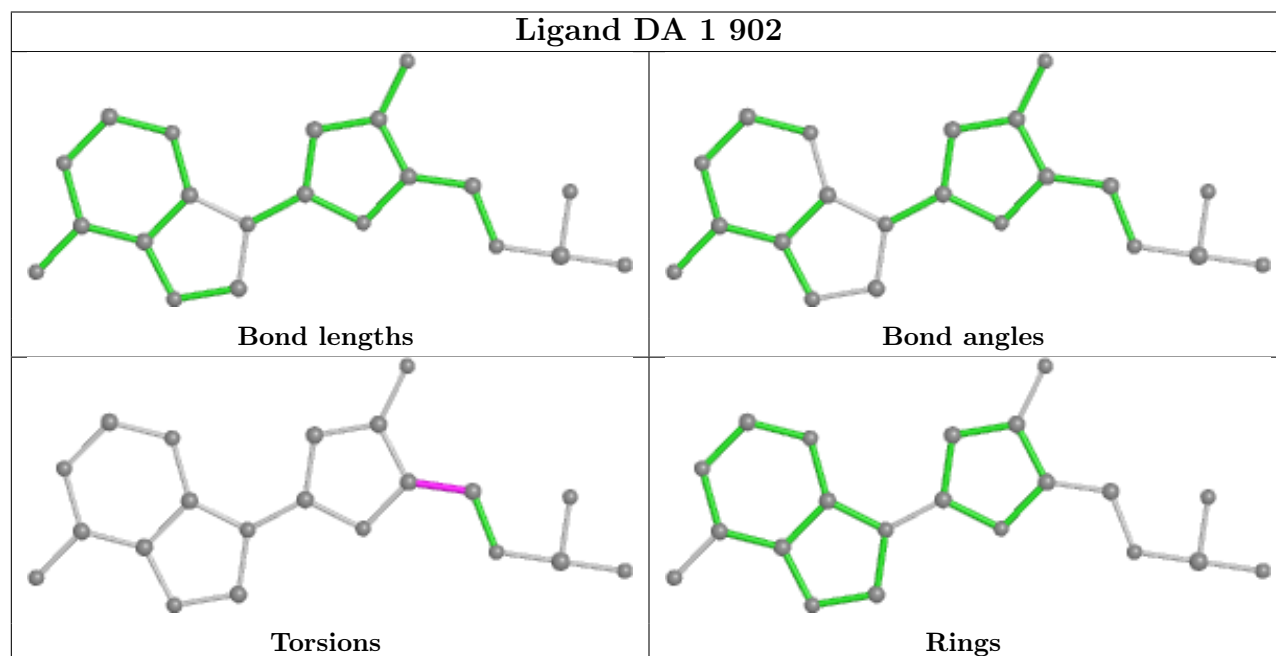
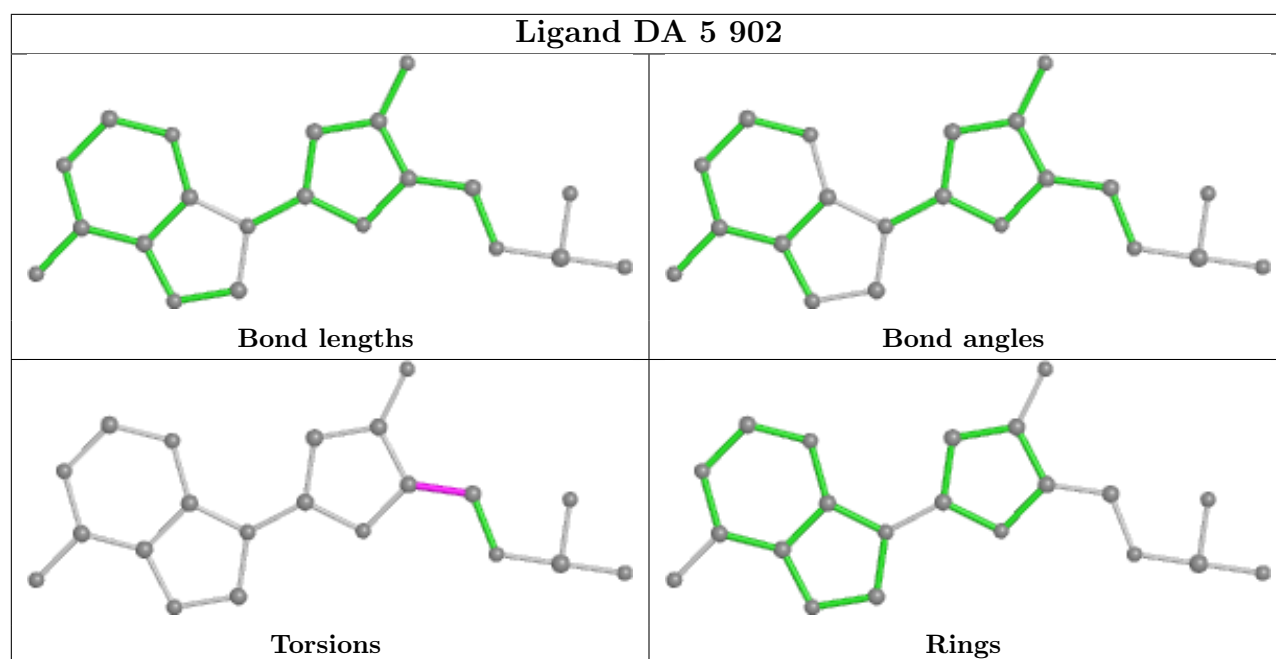


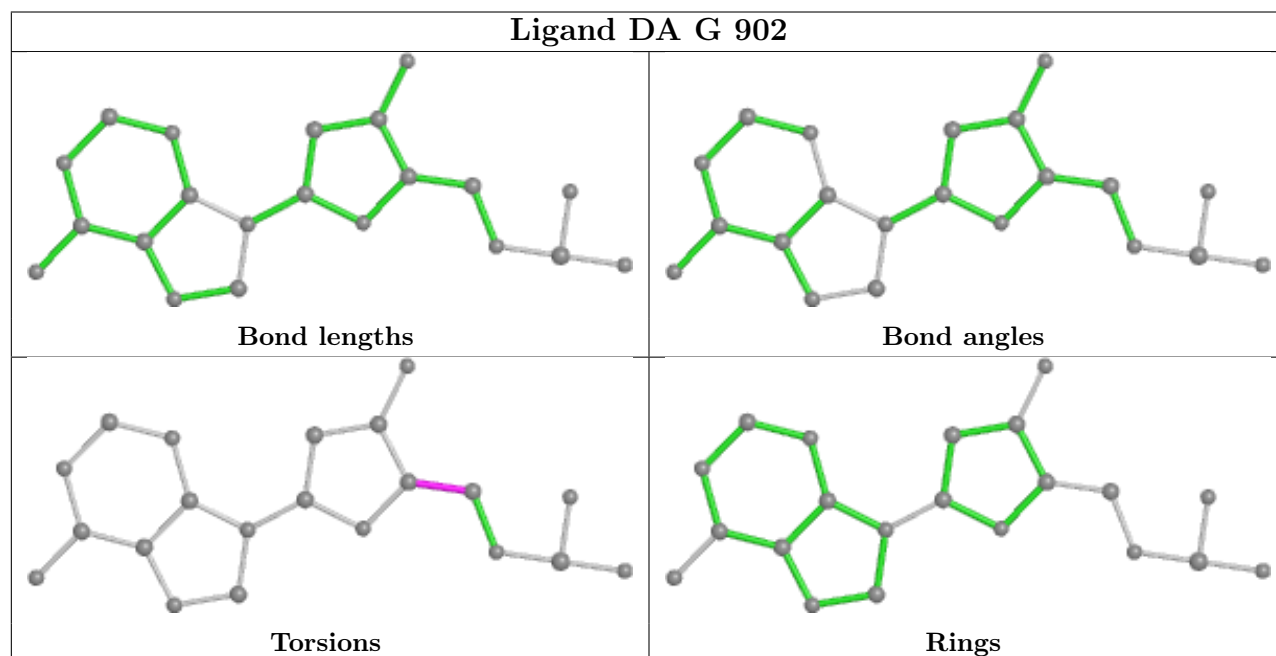
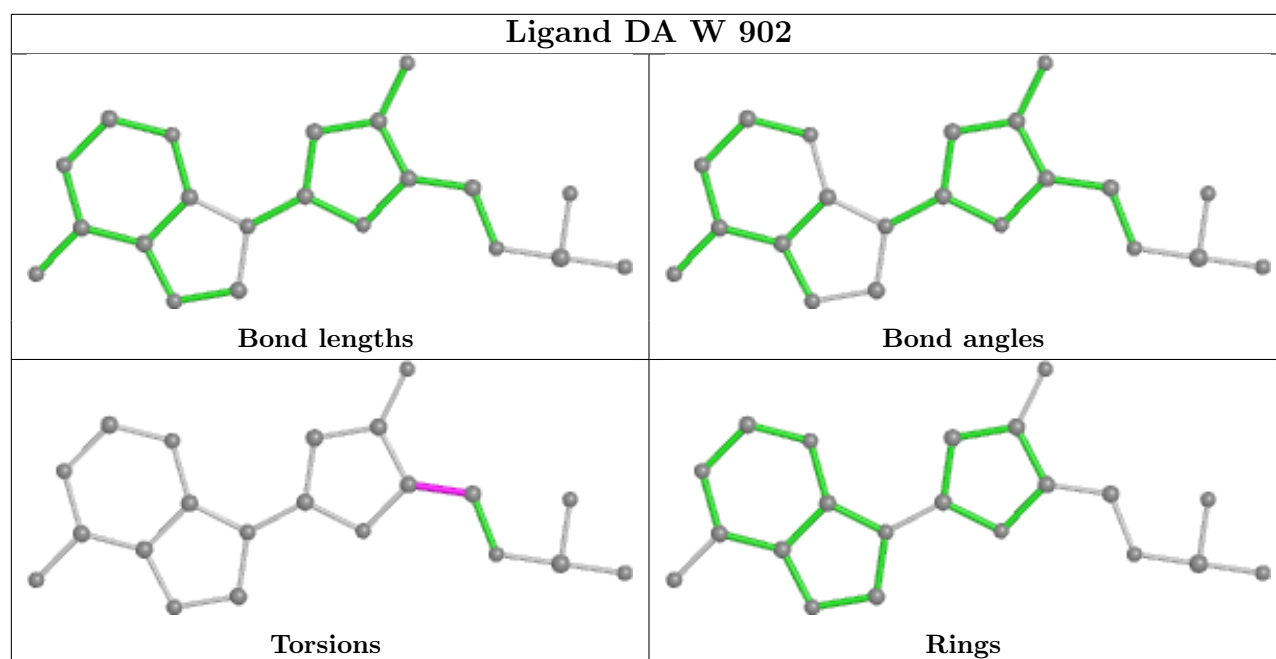
Ligand DC K 901



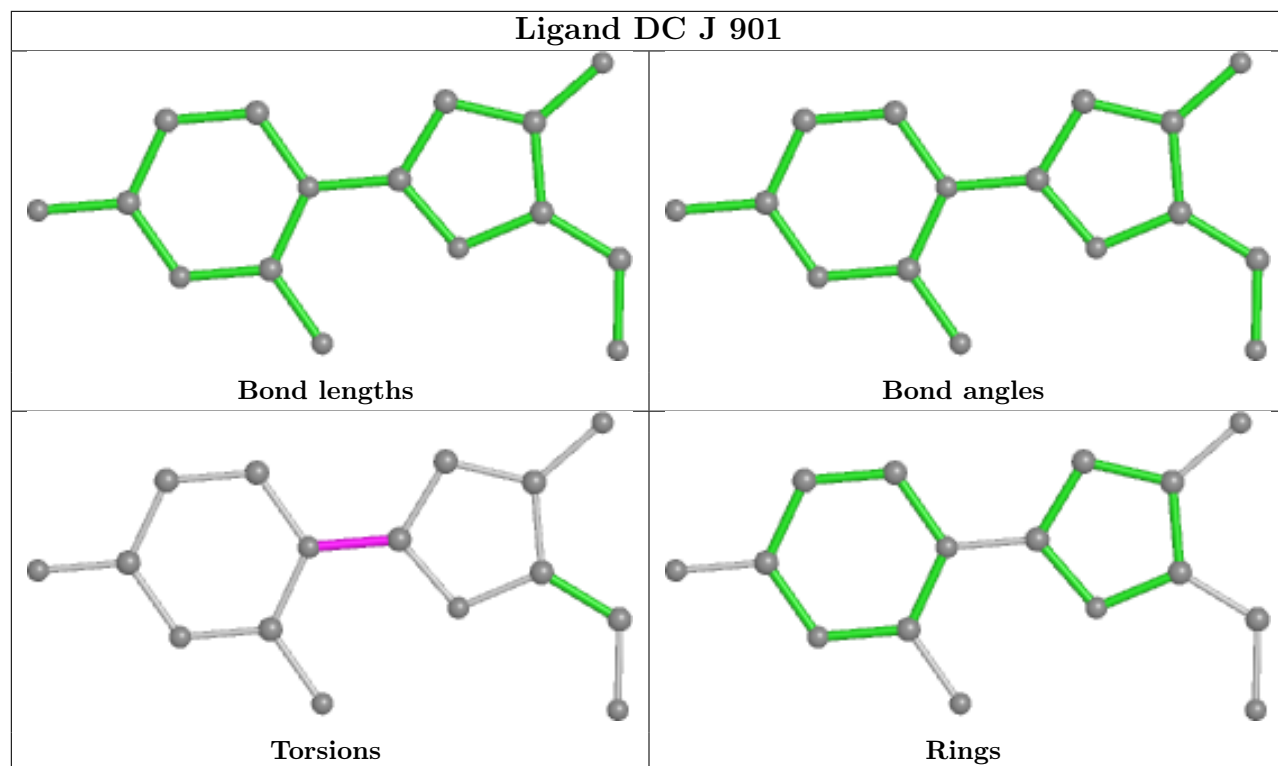




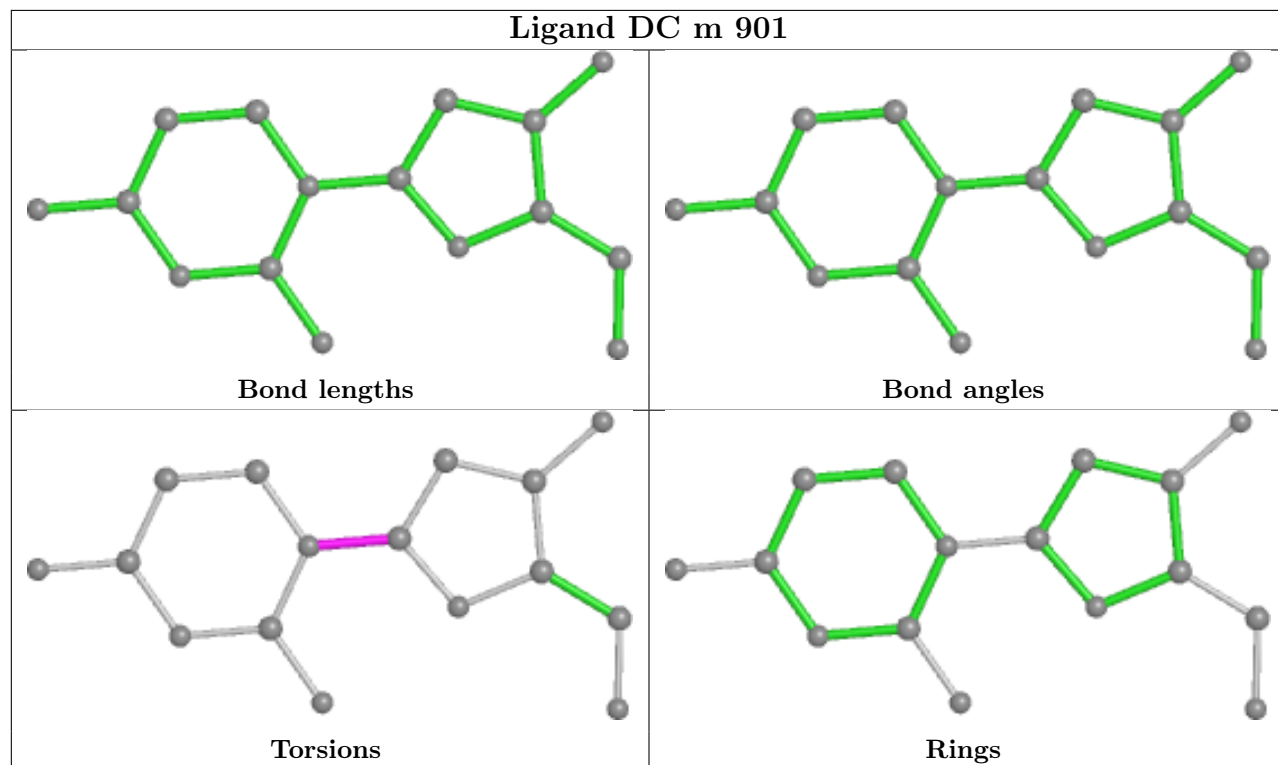


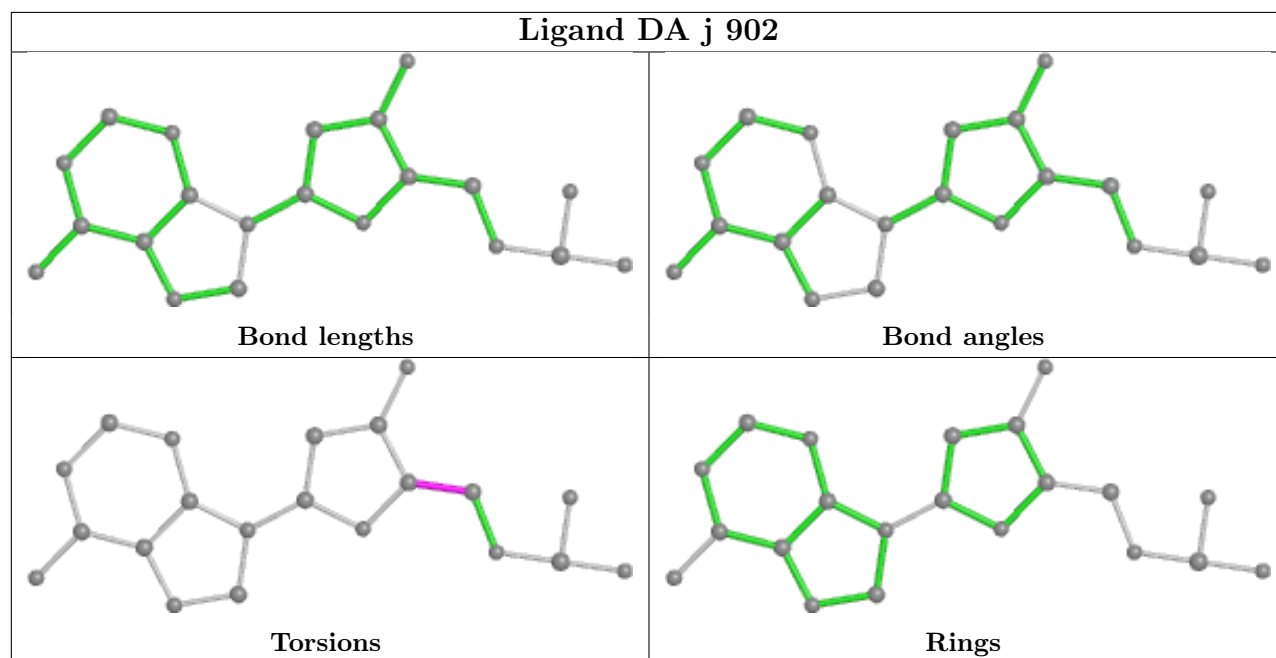
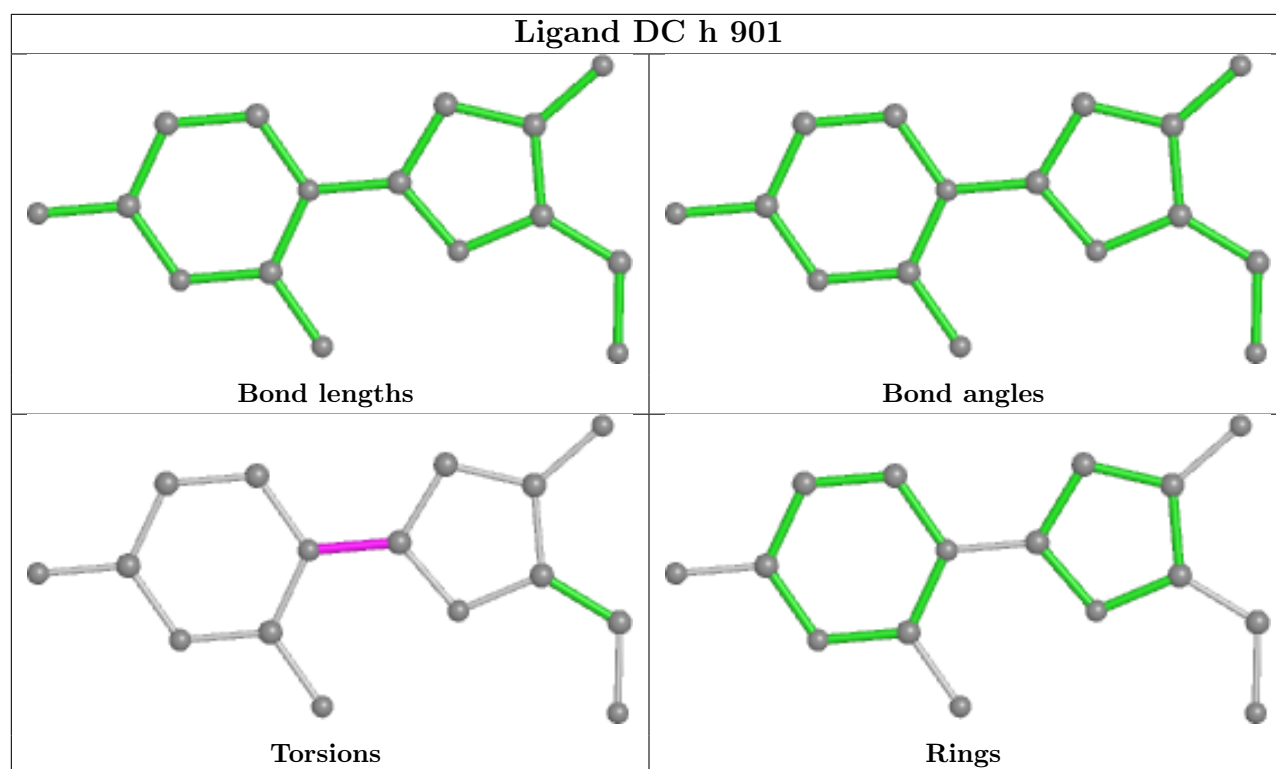


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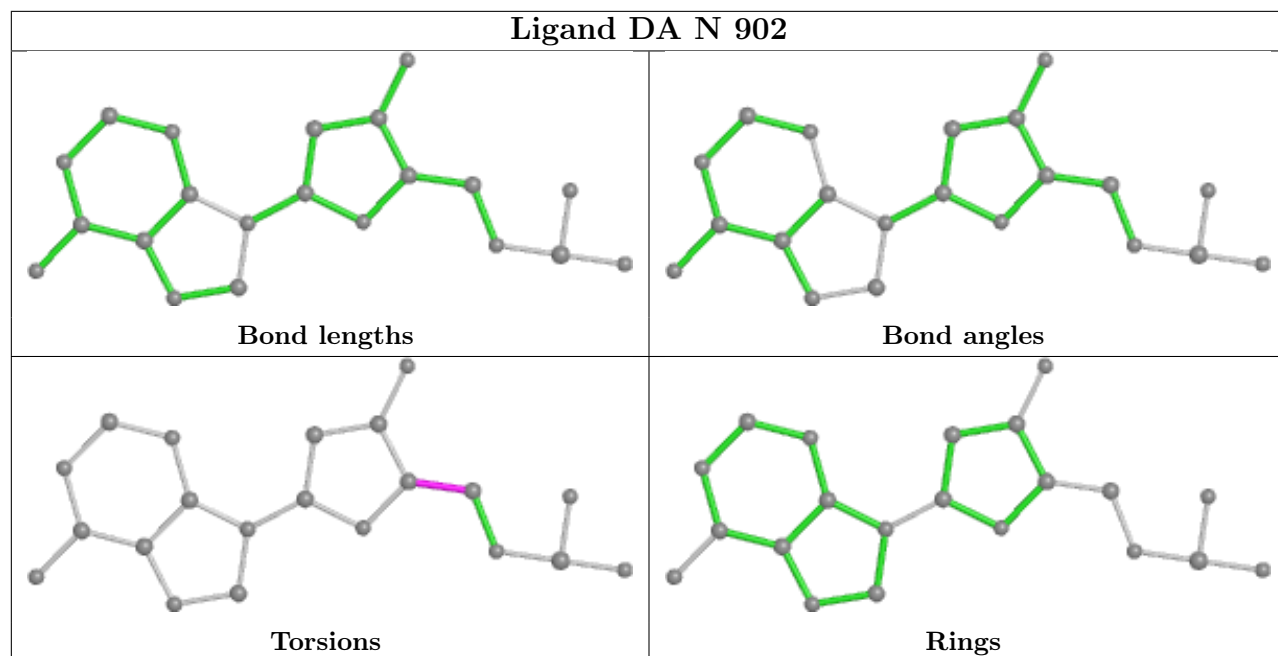


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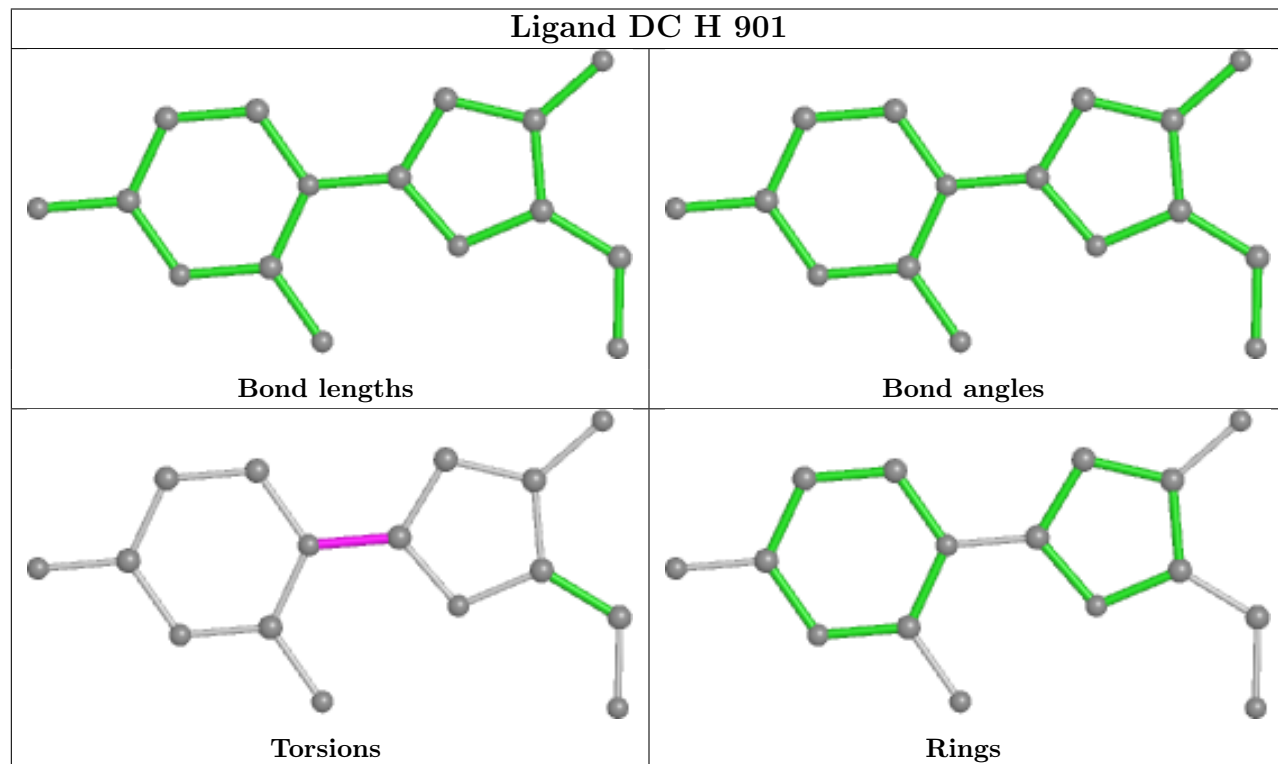




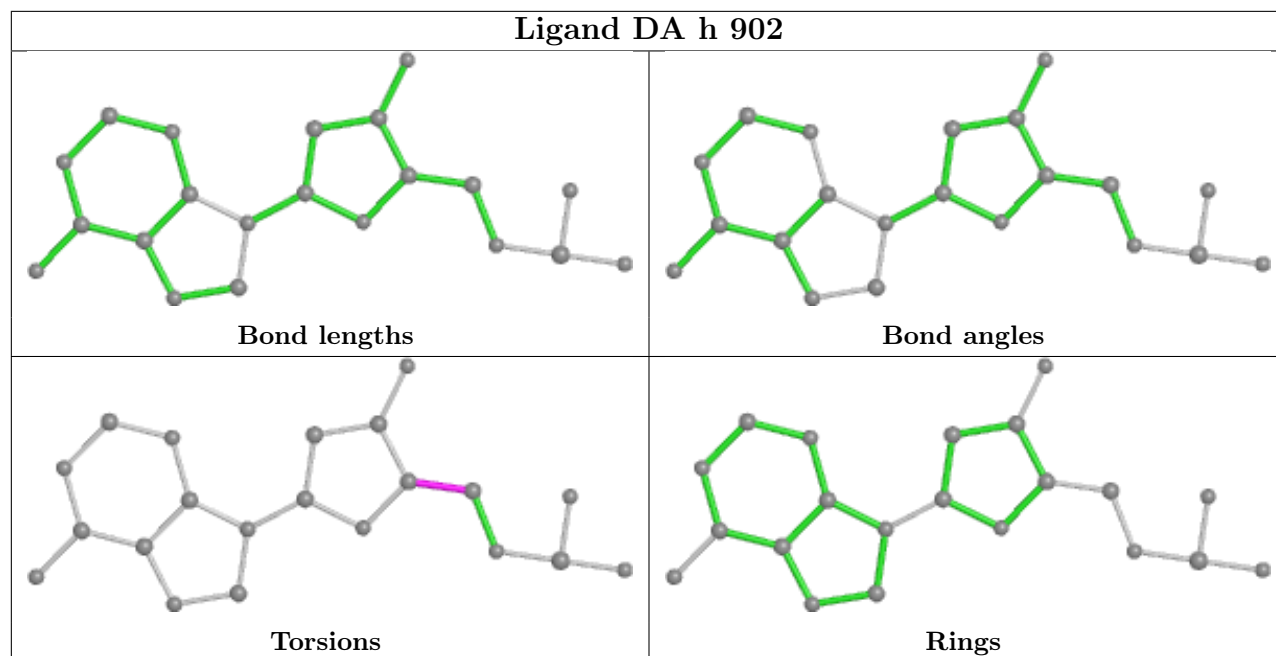
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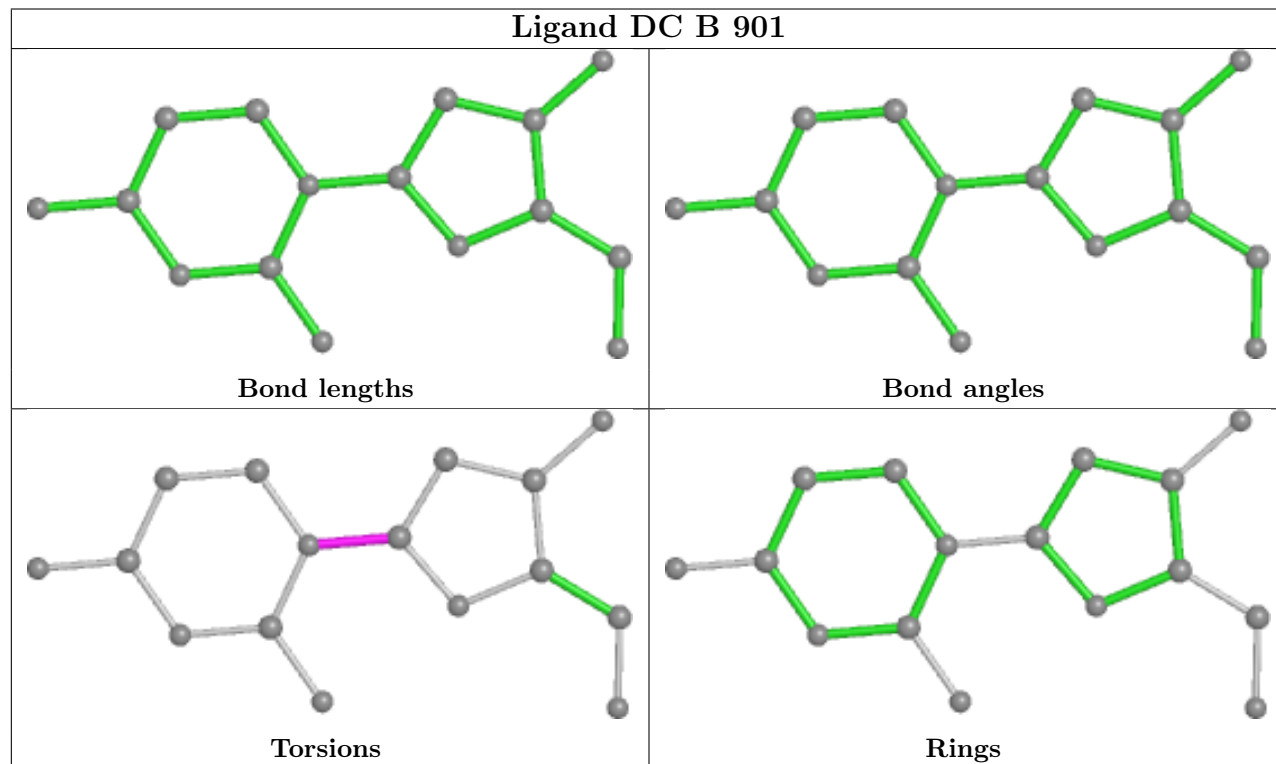
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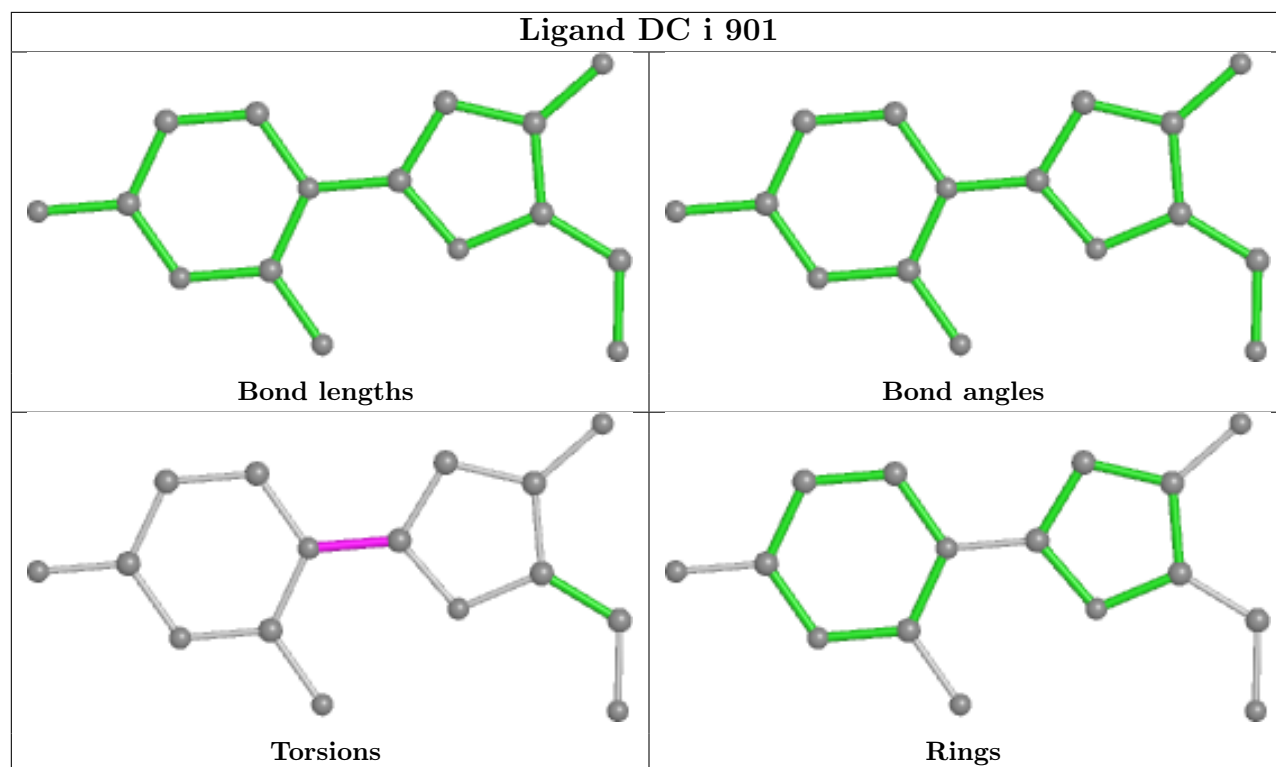
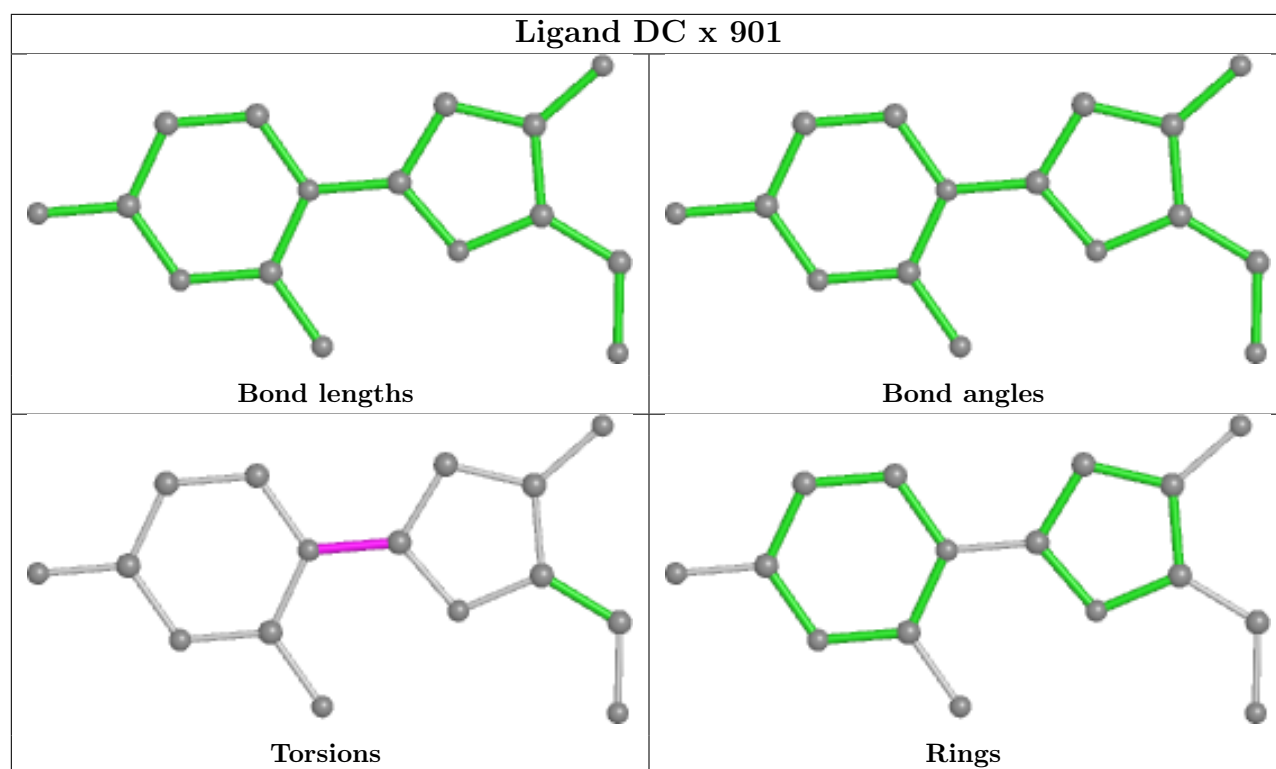


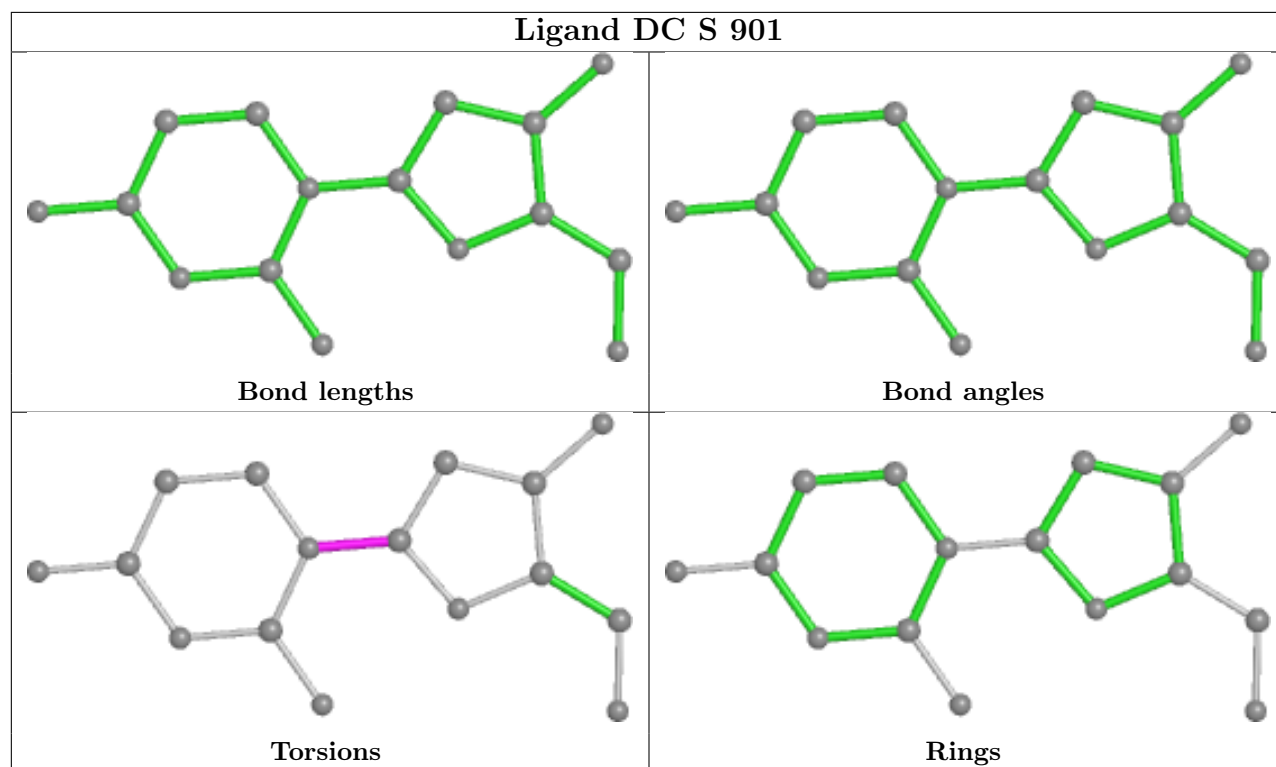
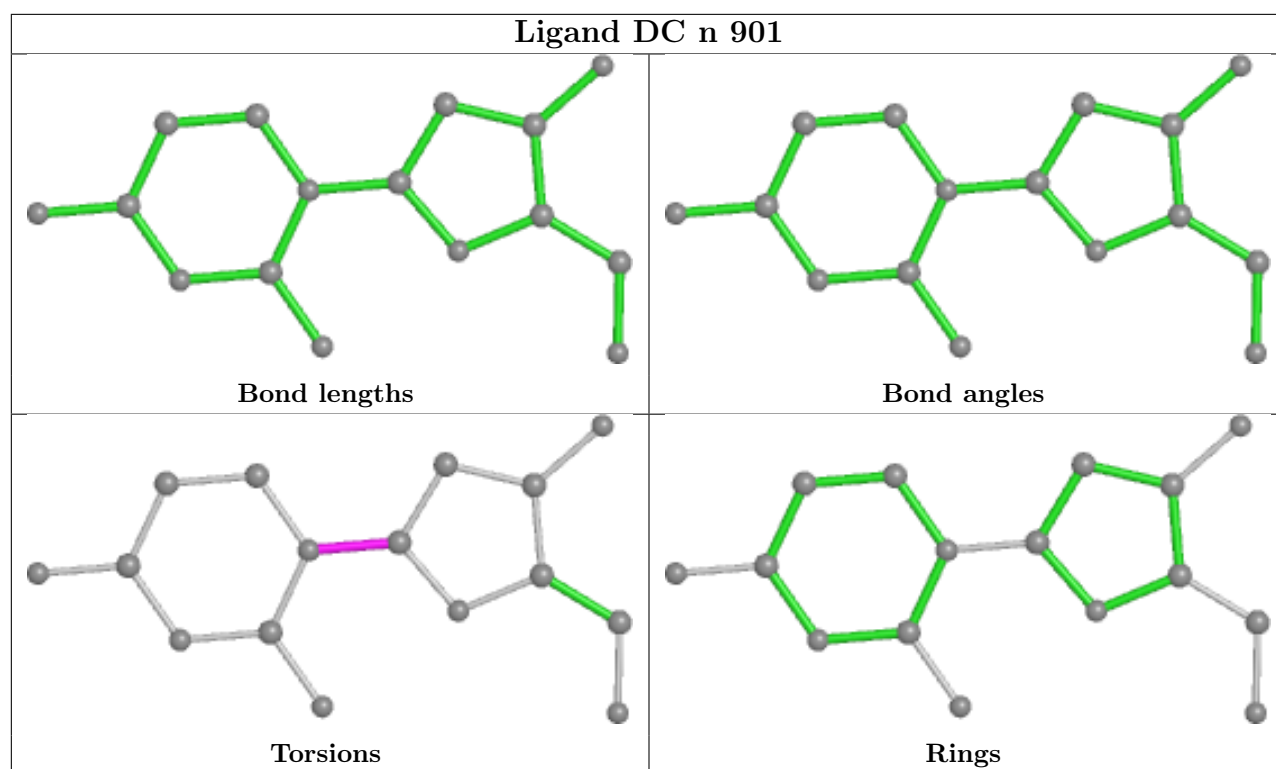
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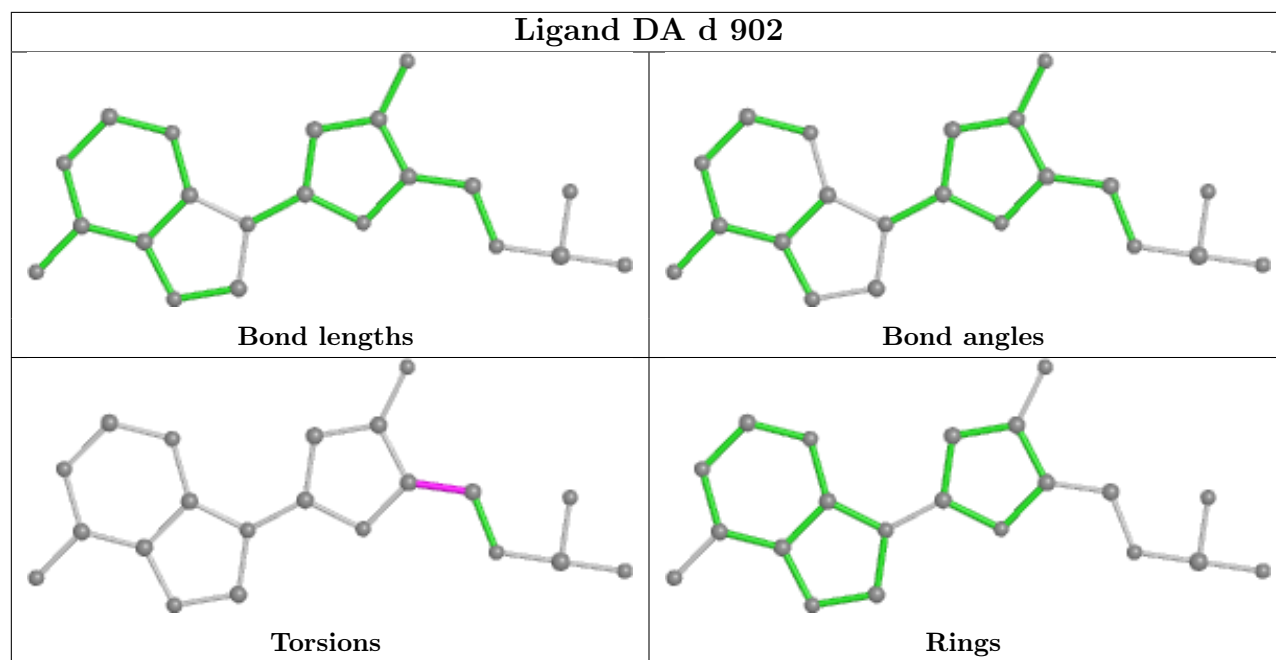
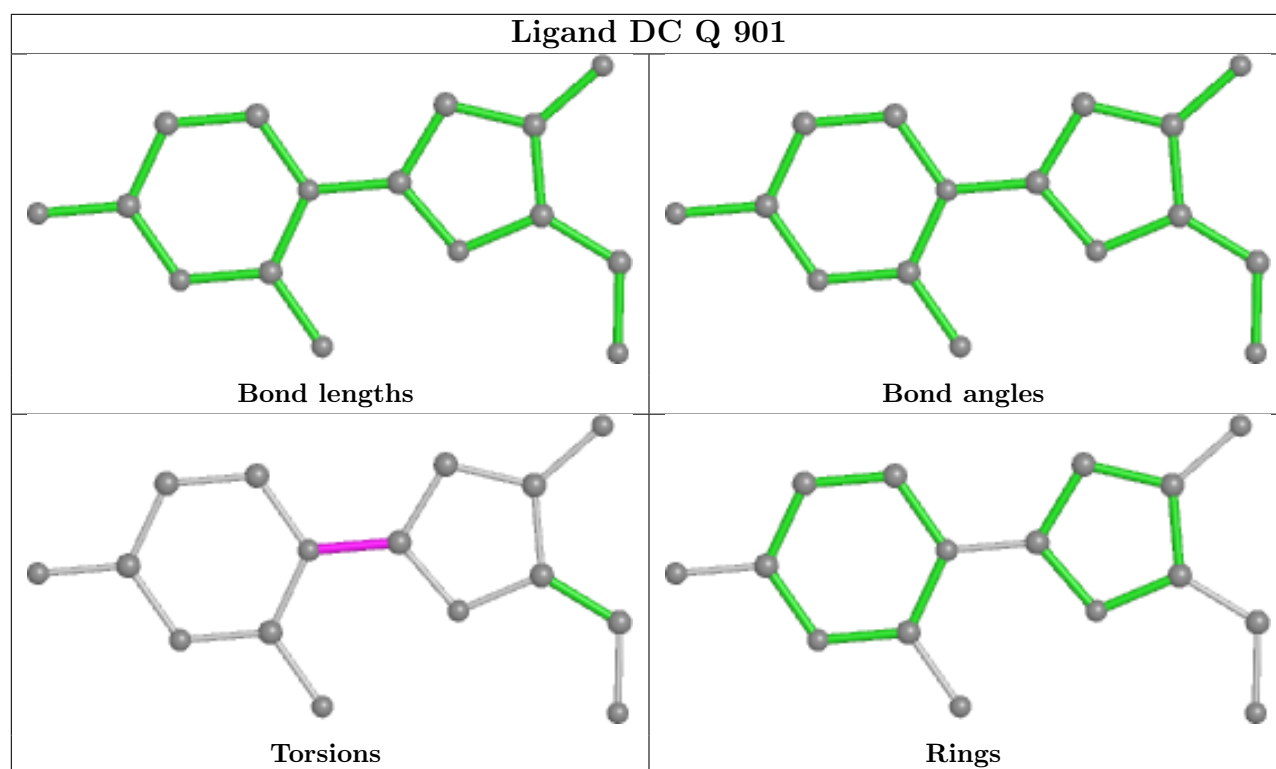


Ligand DC B 901

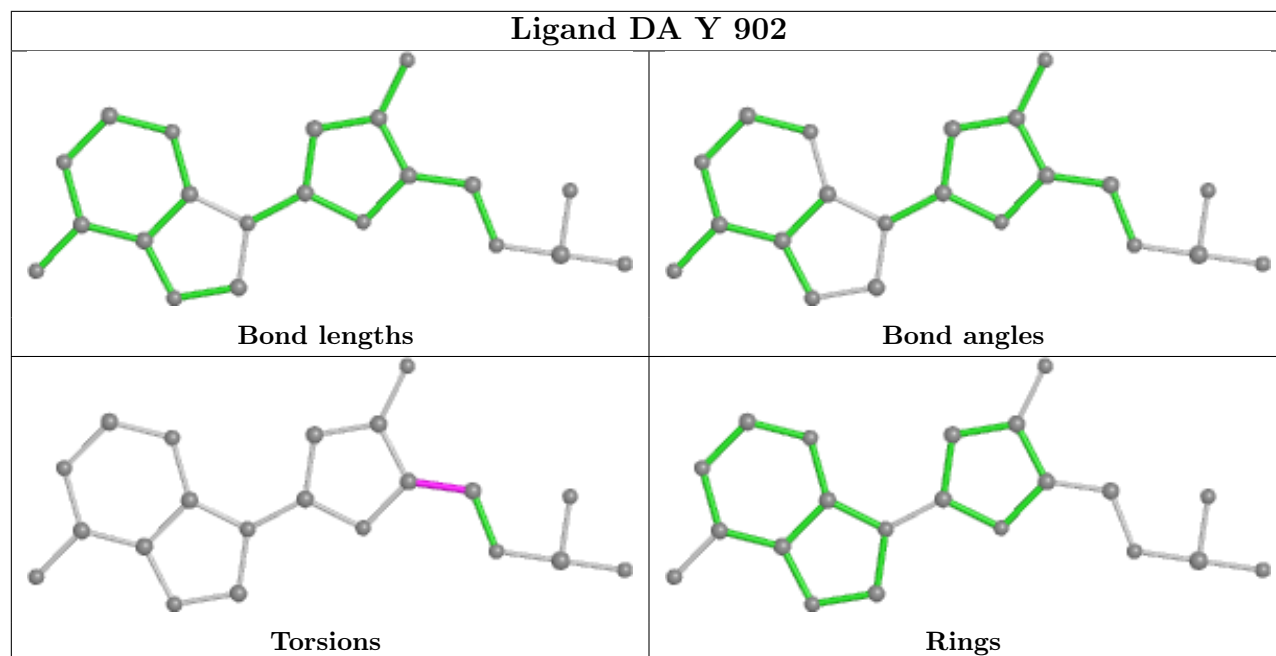




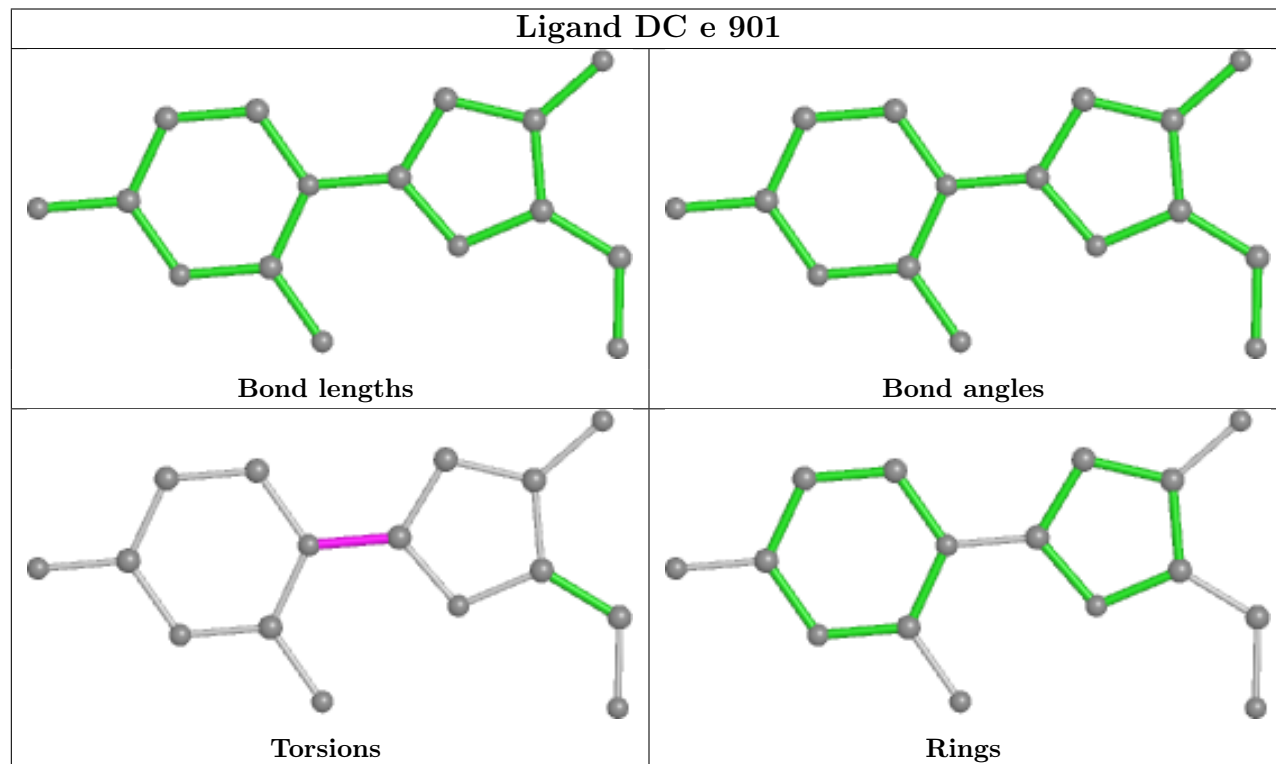


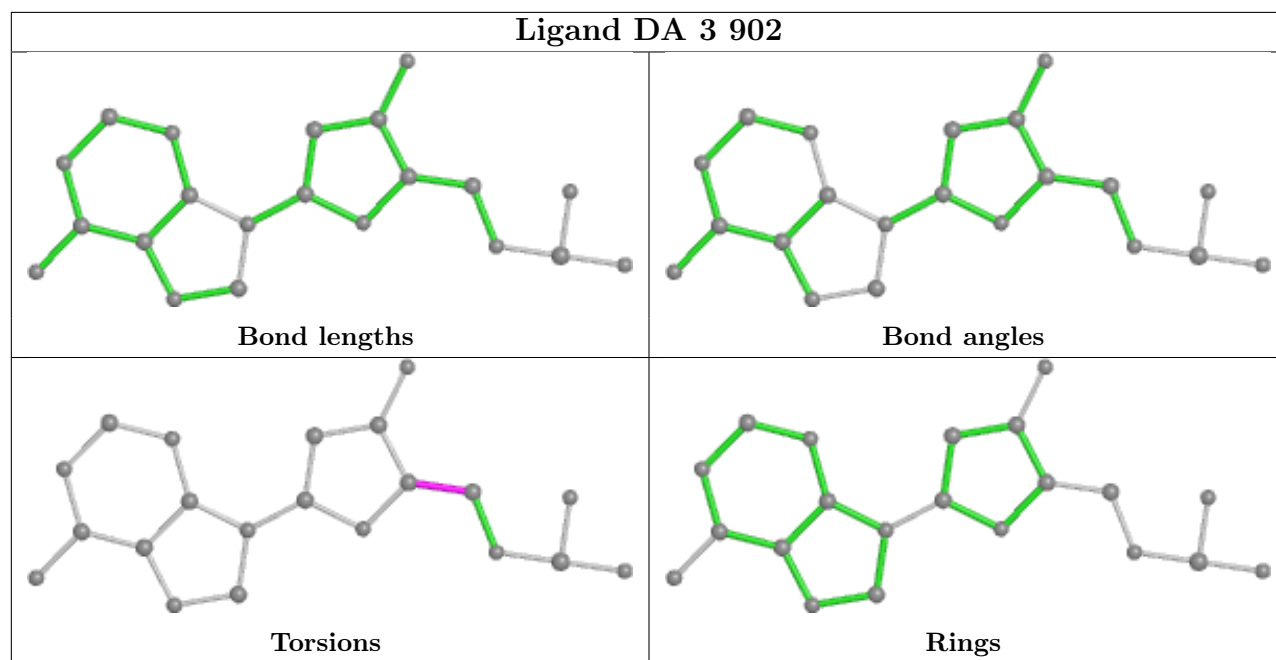
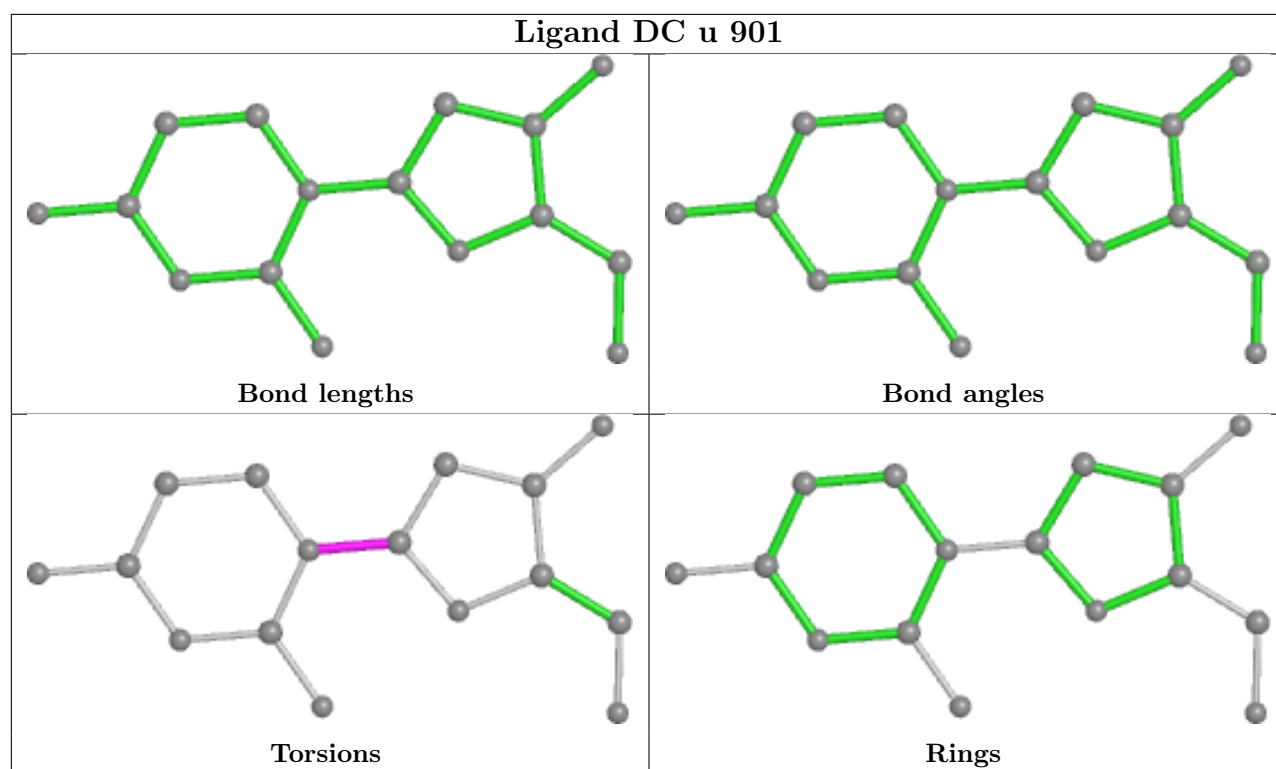


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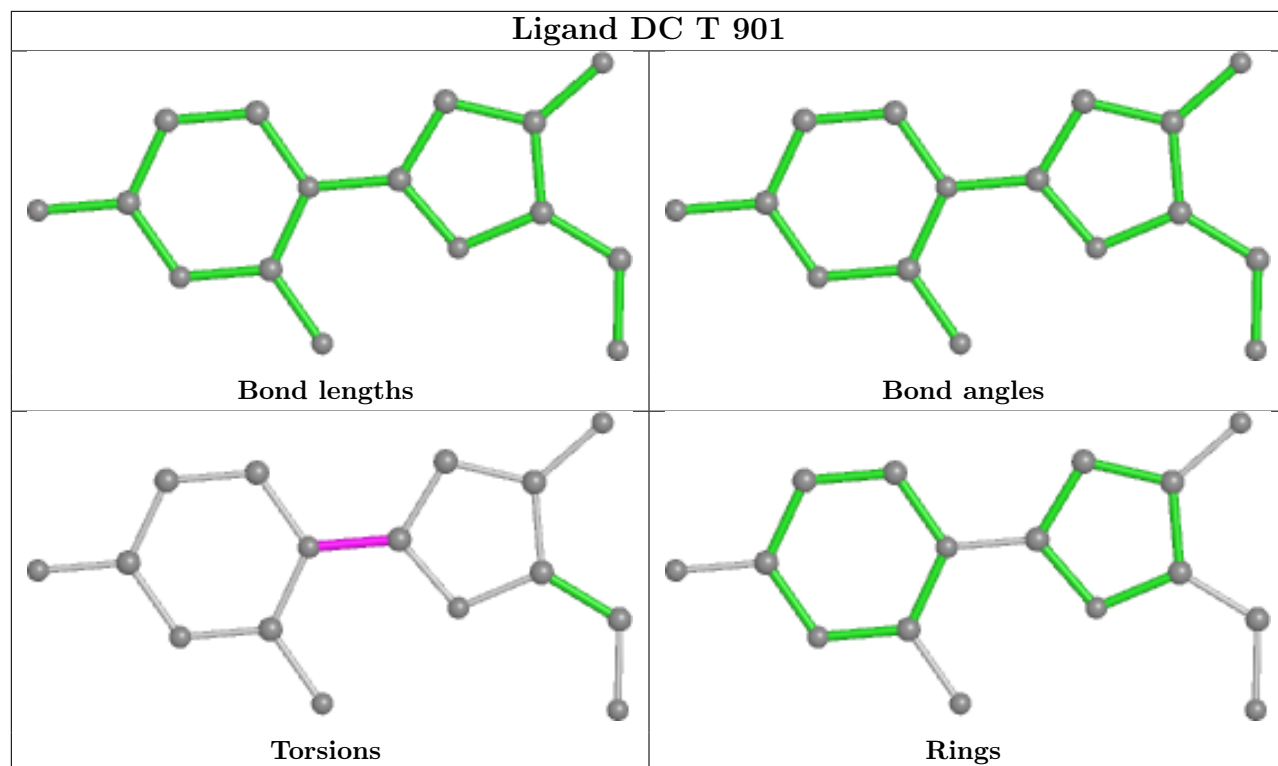


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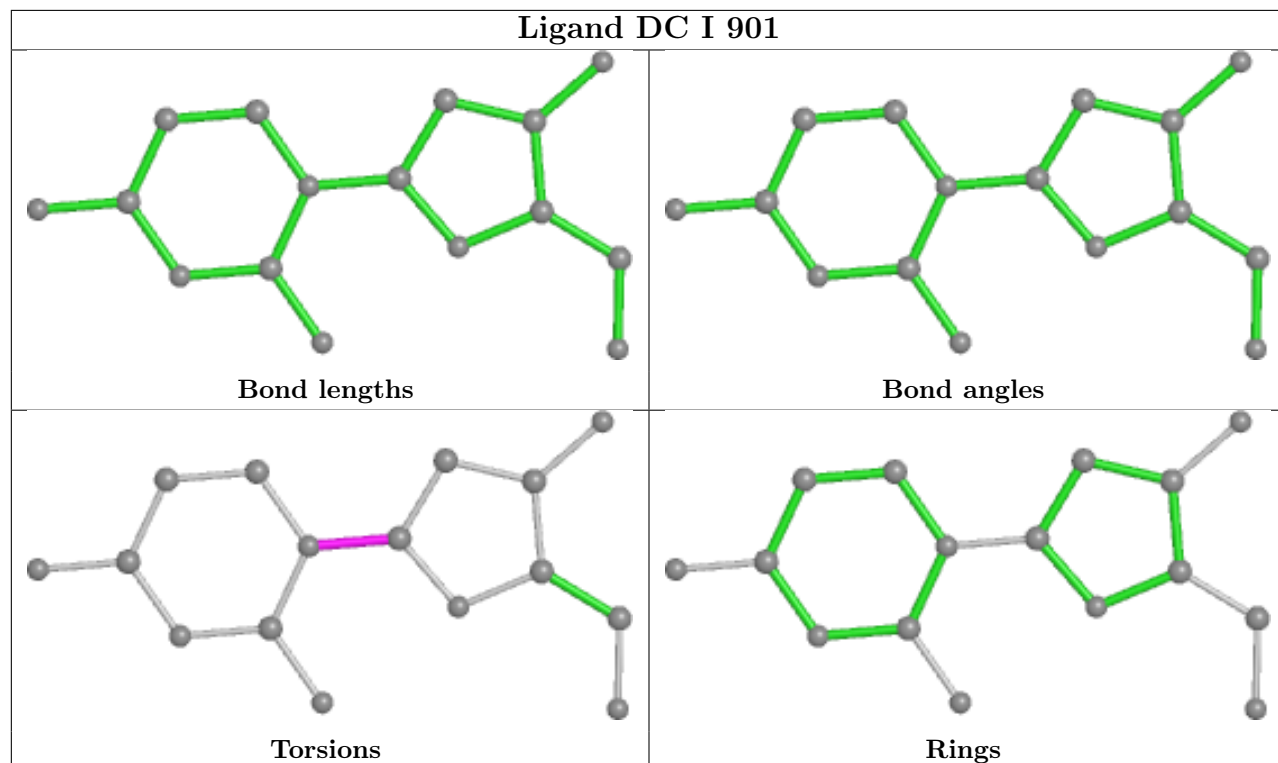




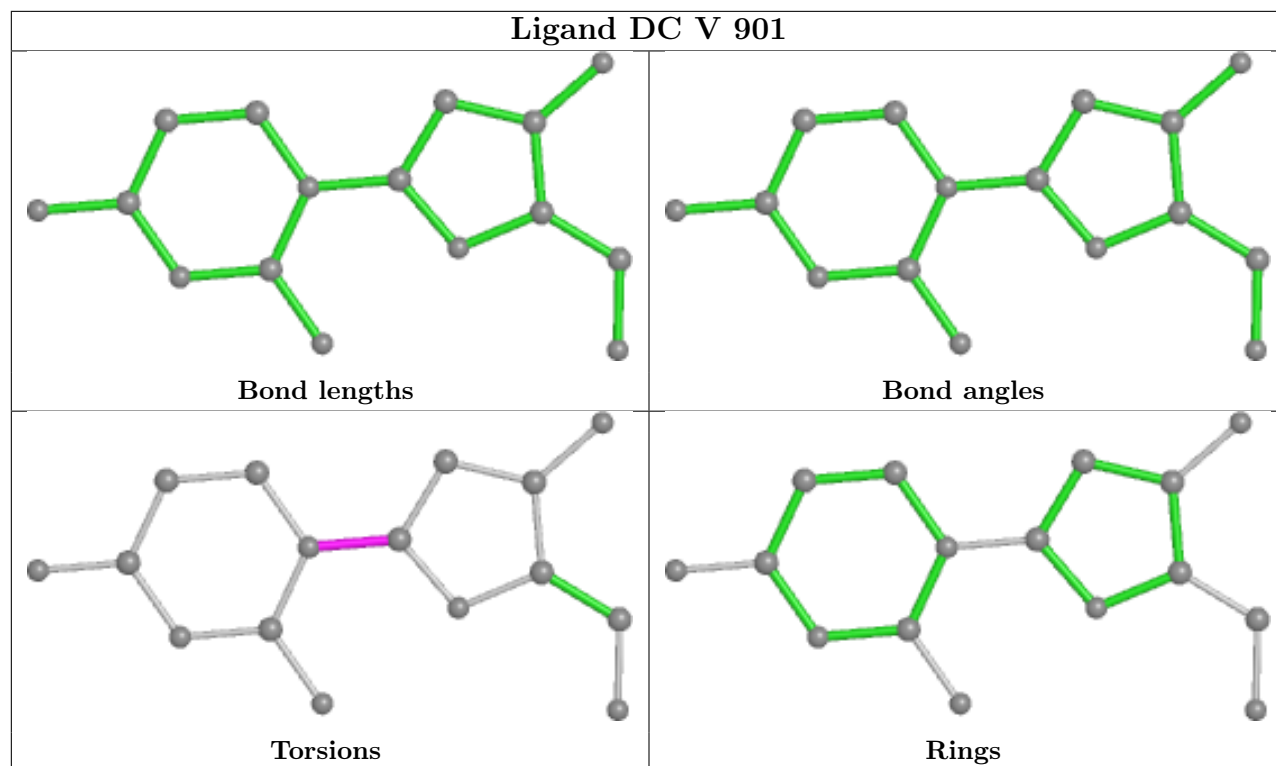
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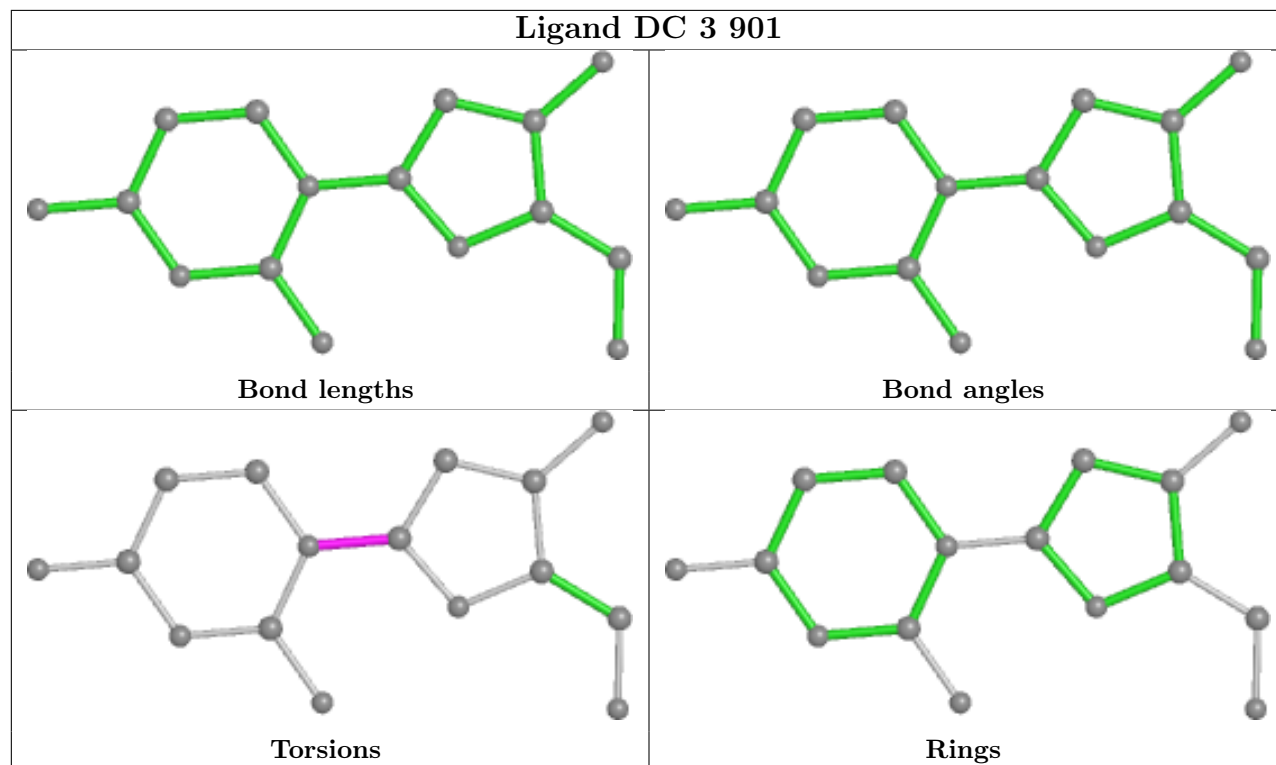
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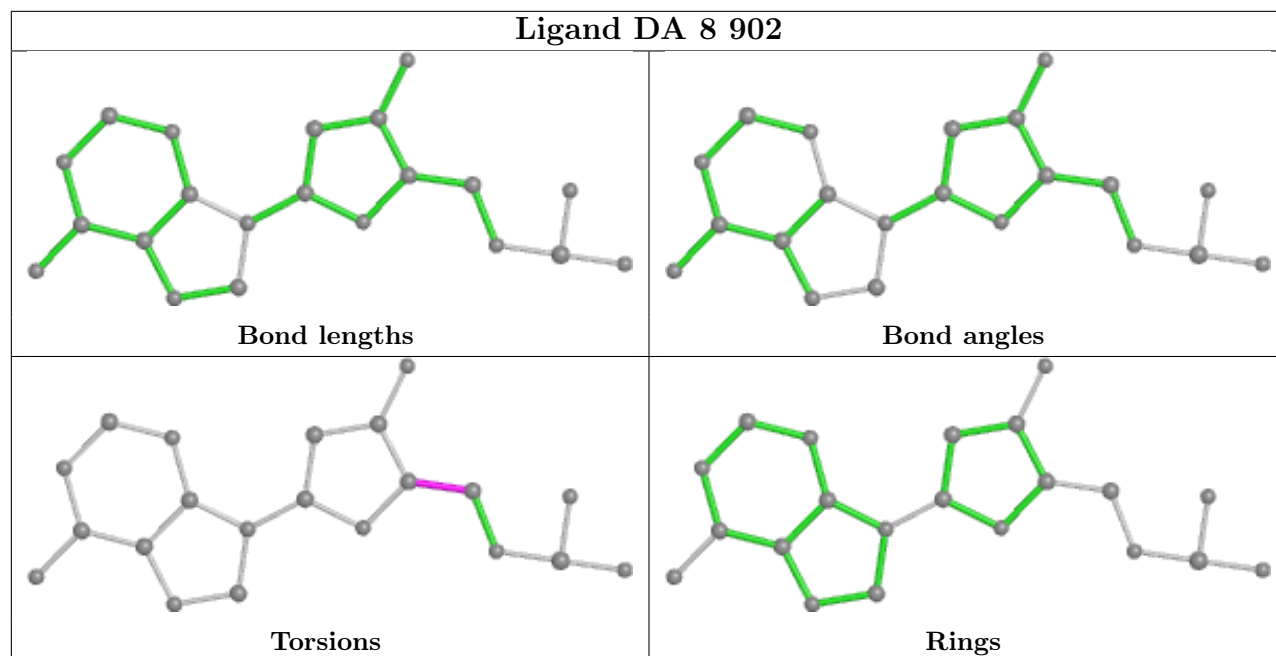
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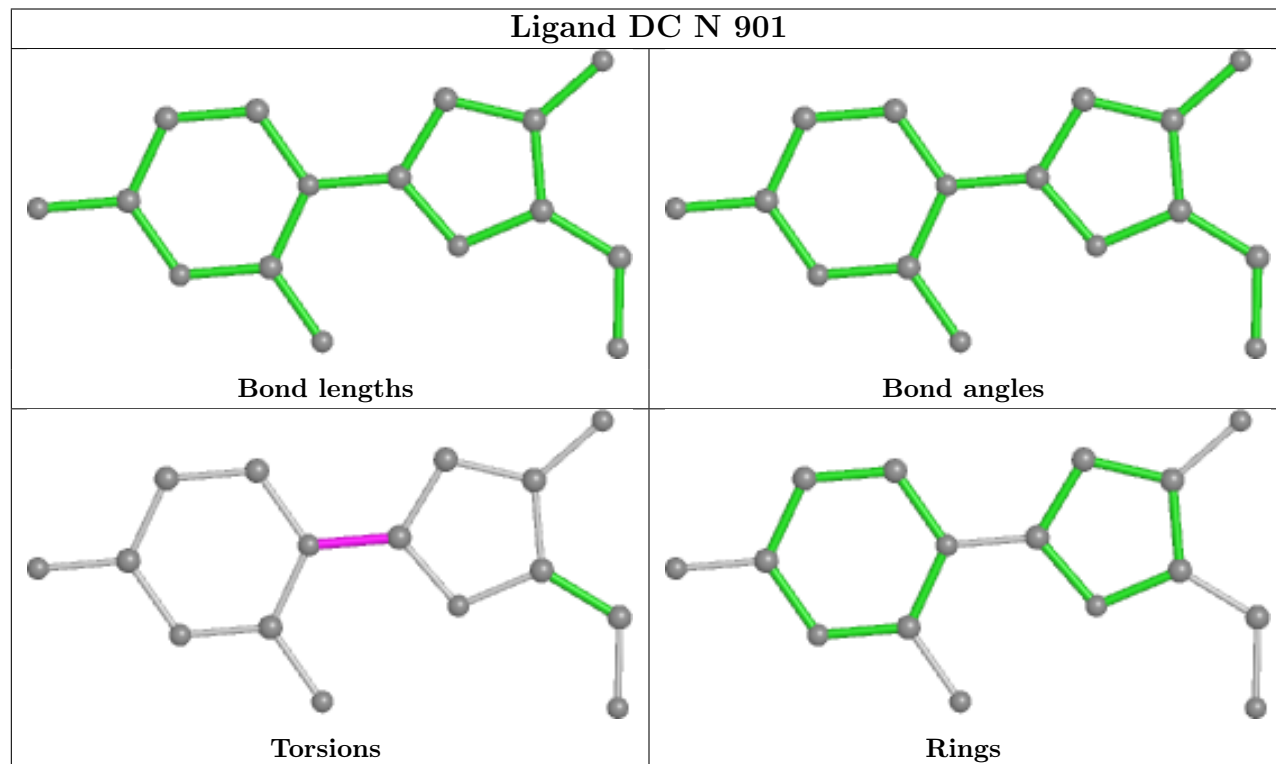
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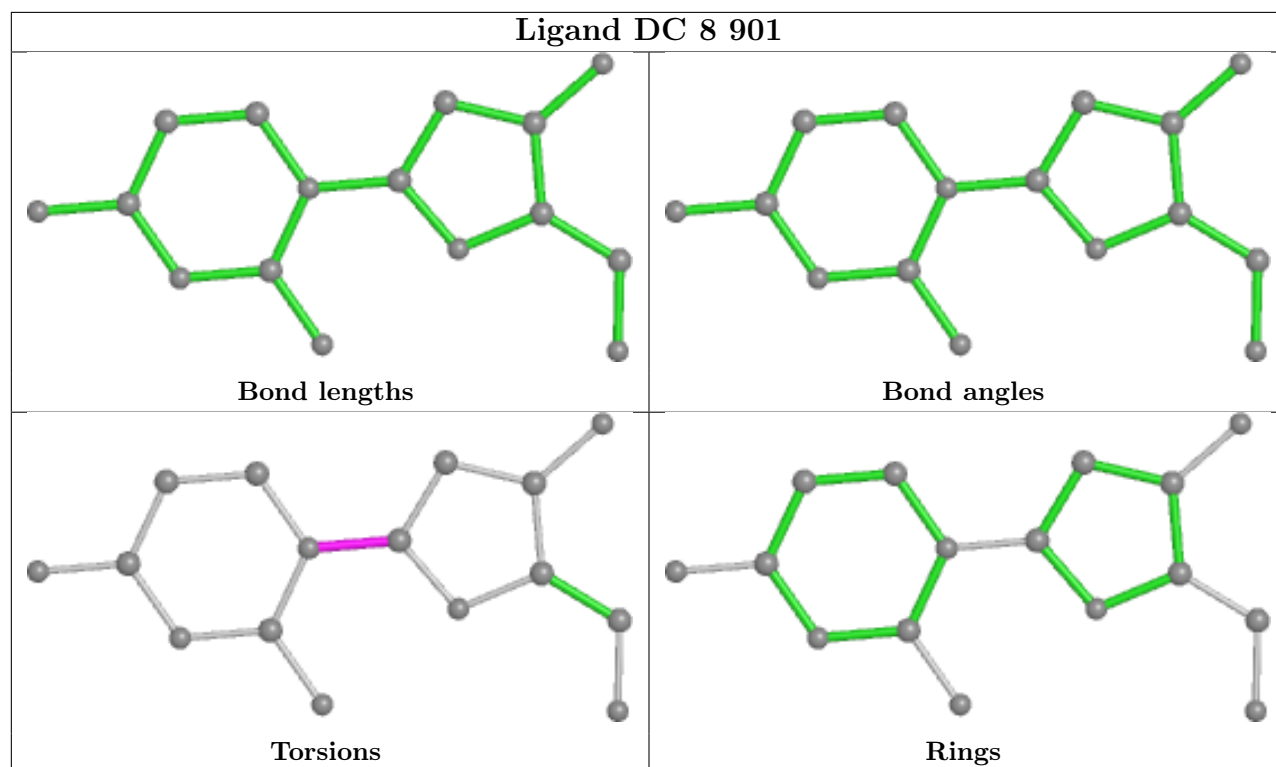
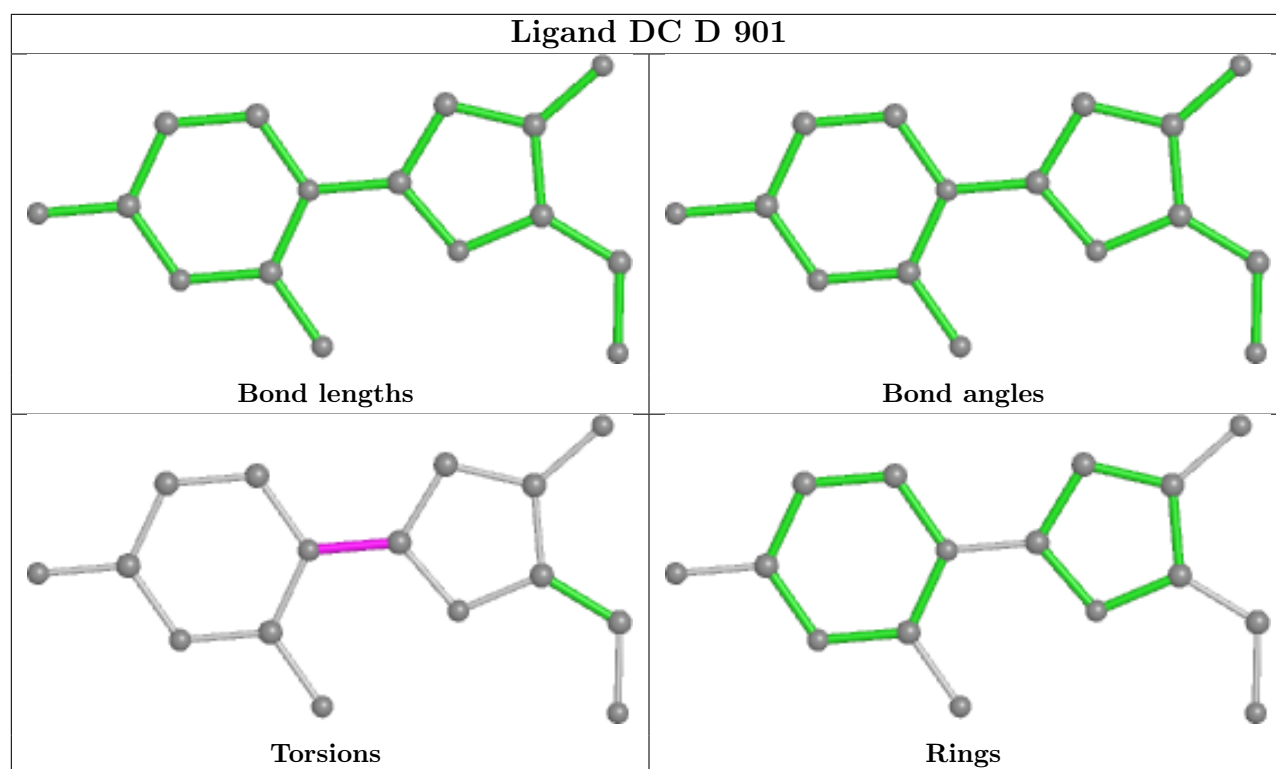


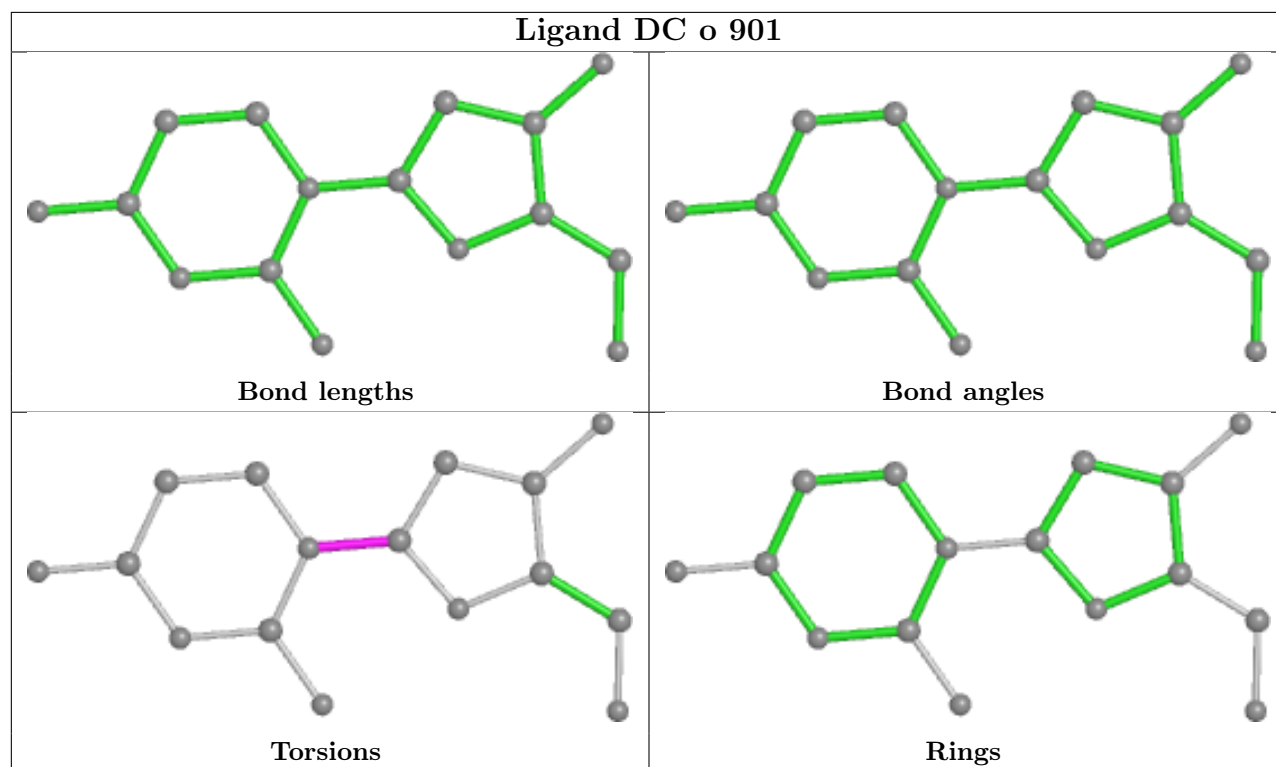
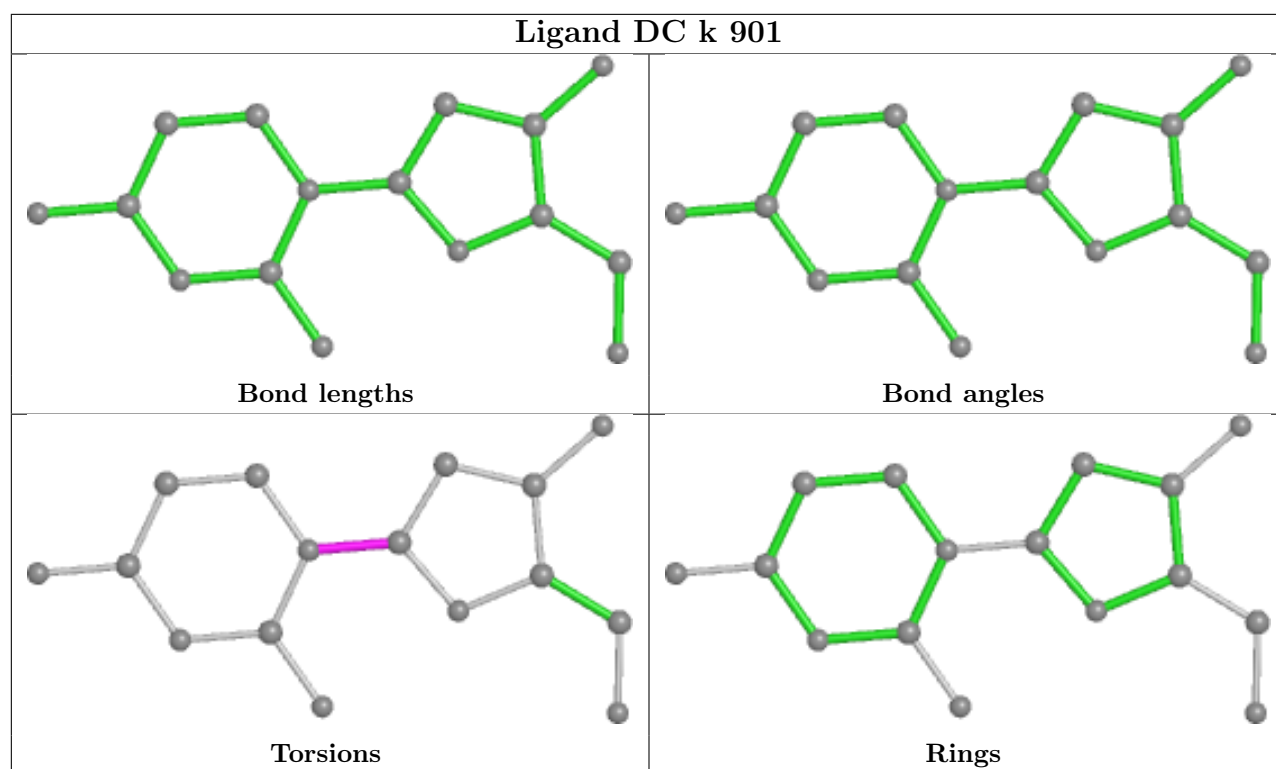
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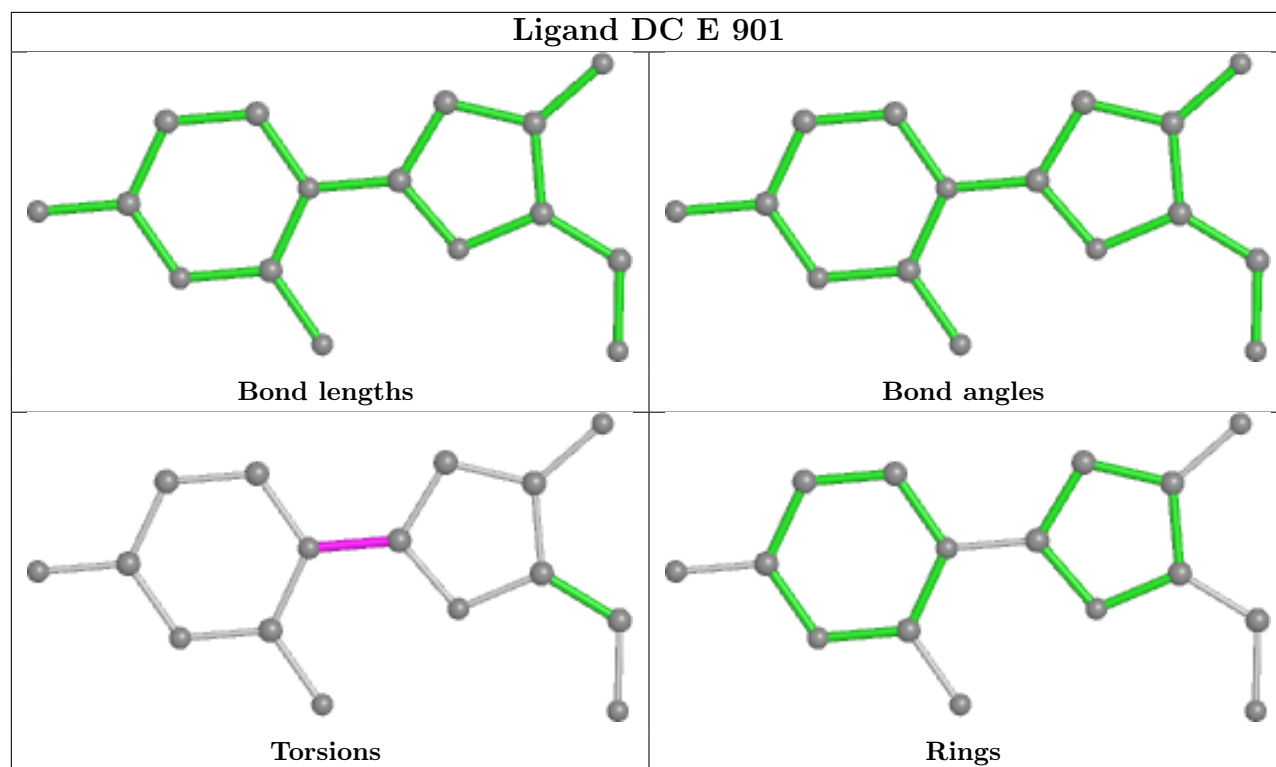
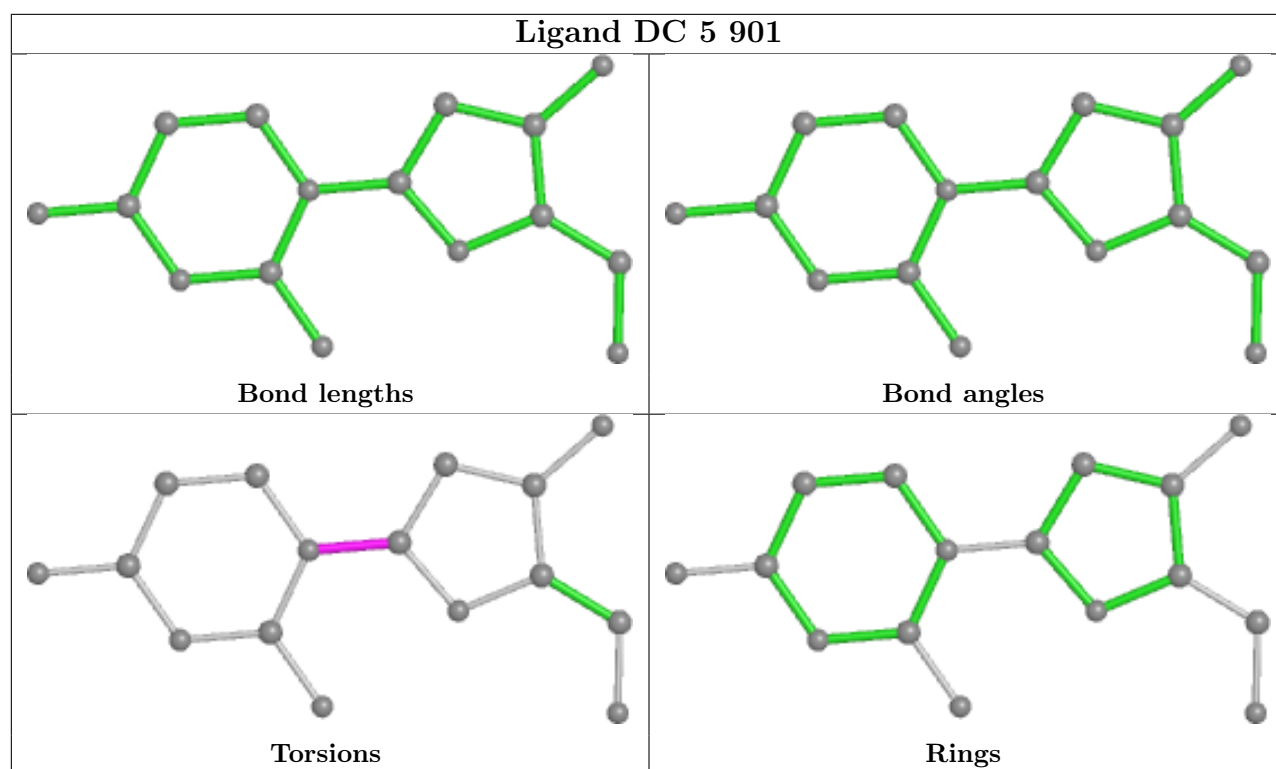


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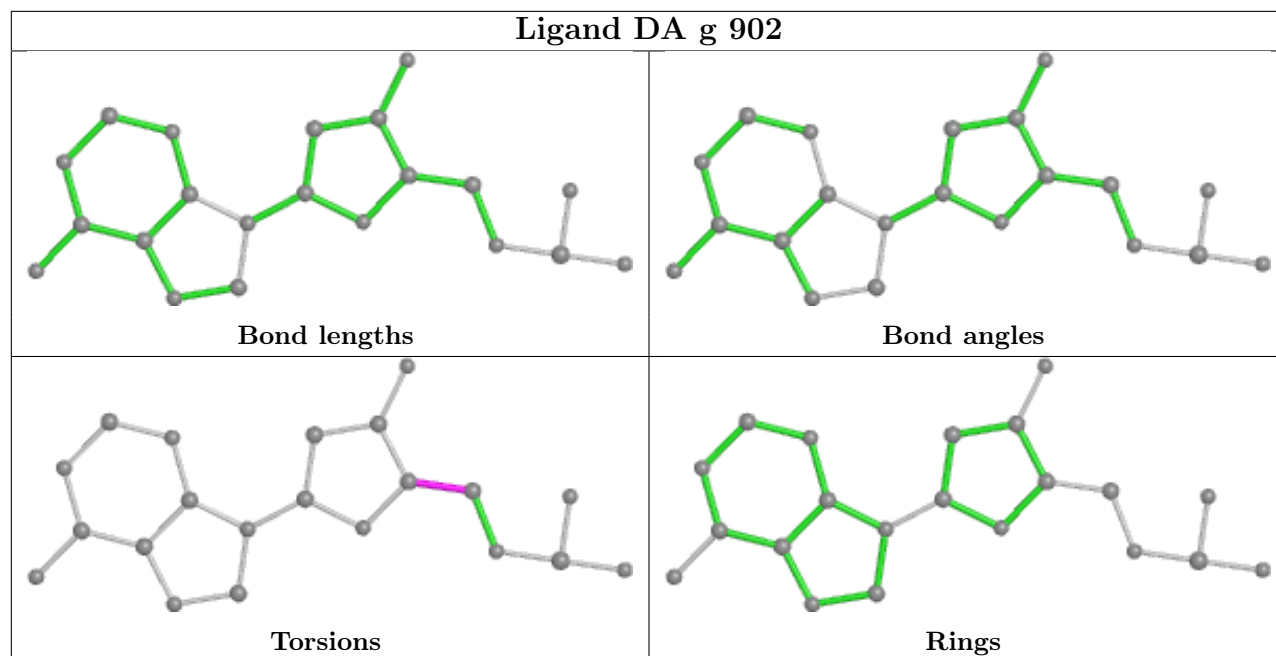




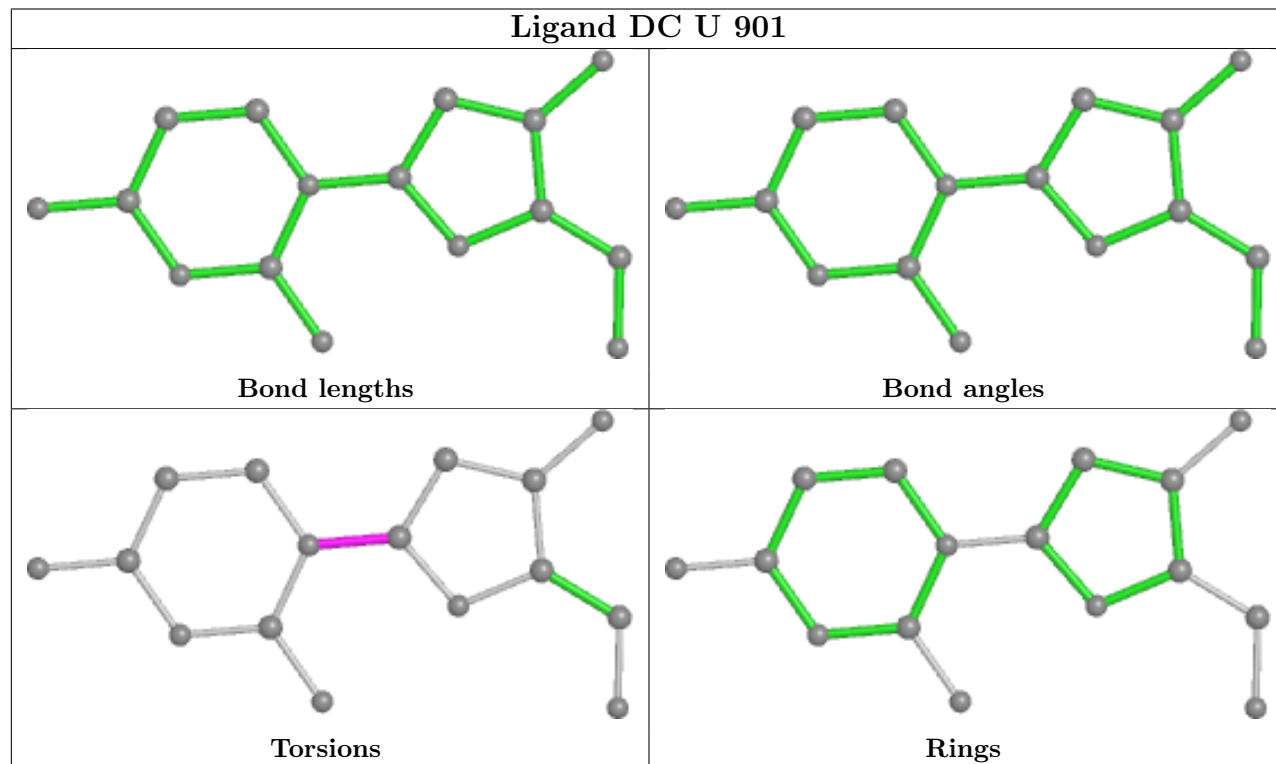


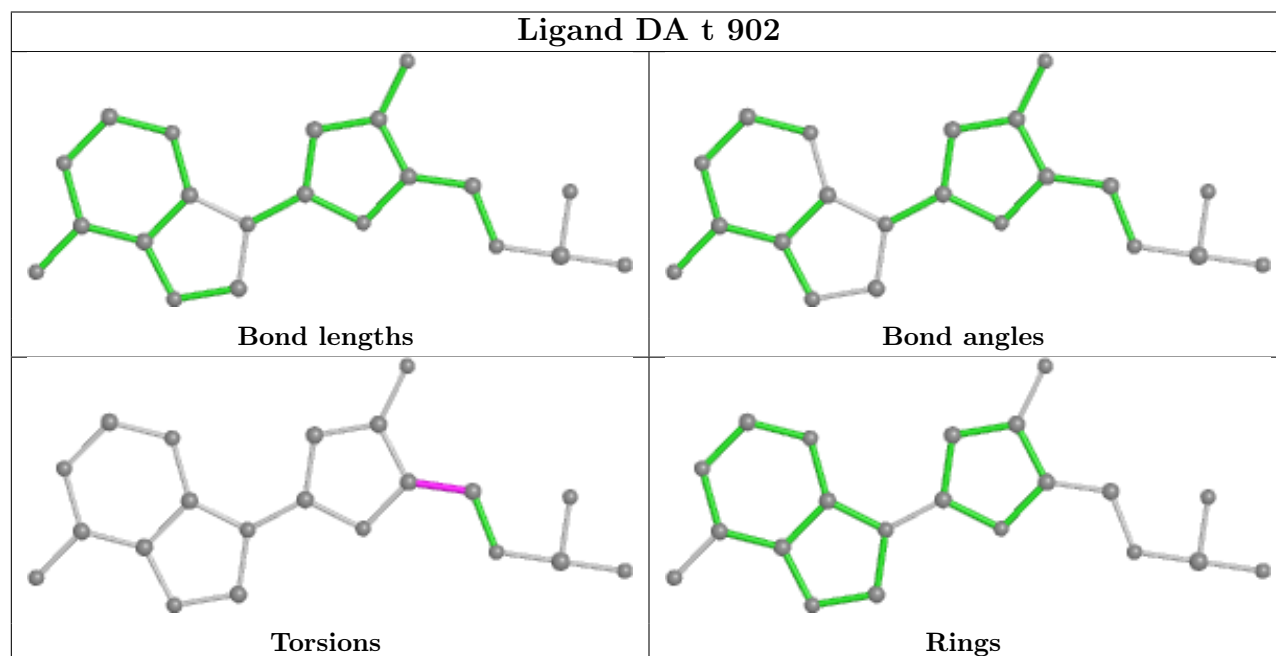
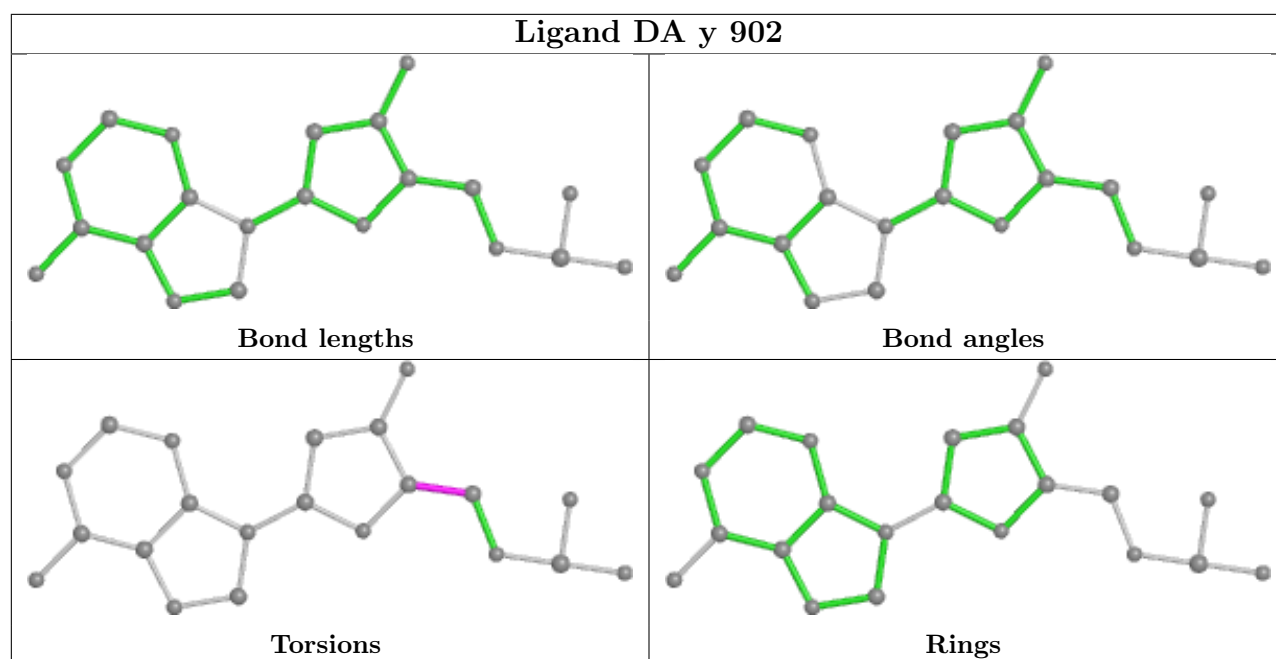


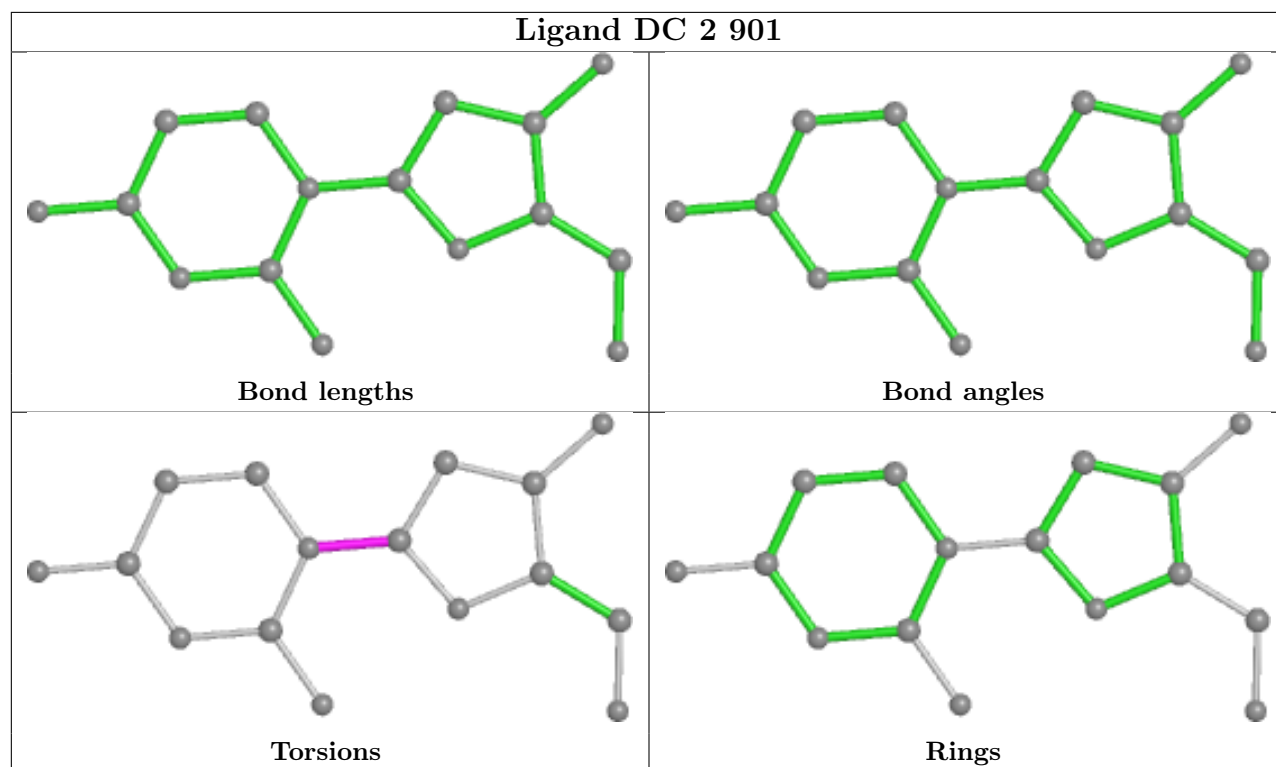
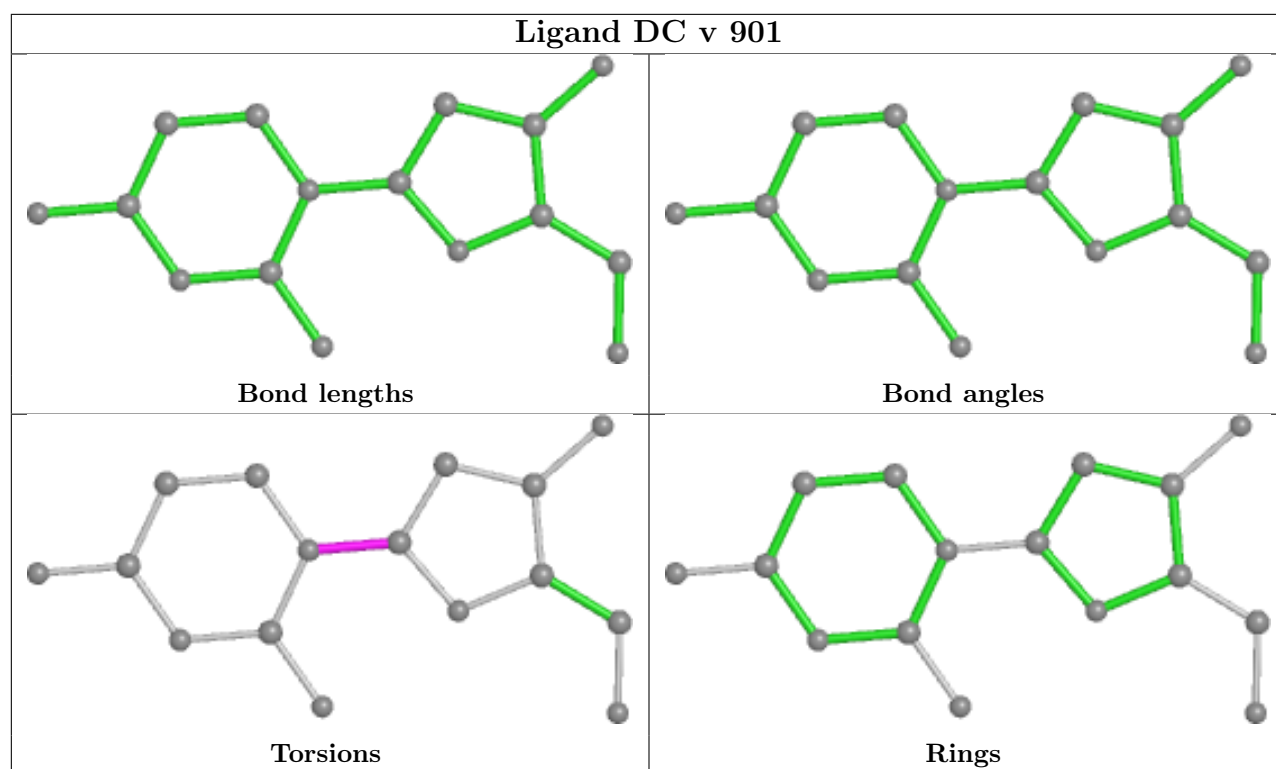
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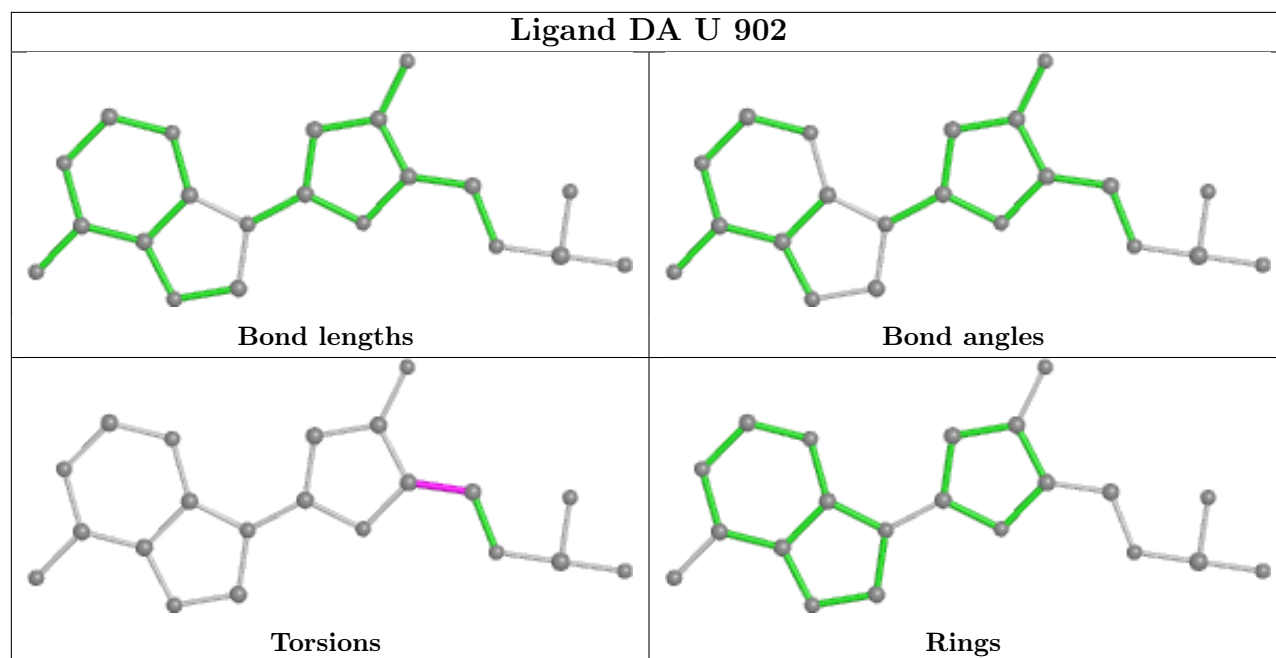
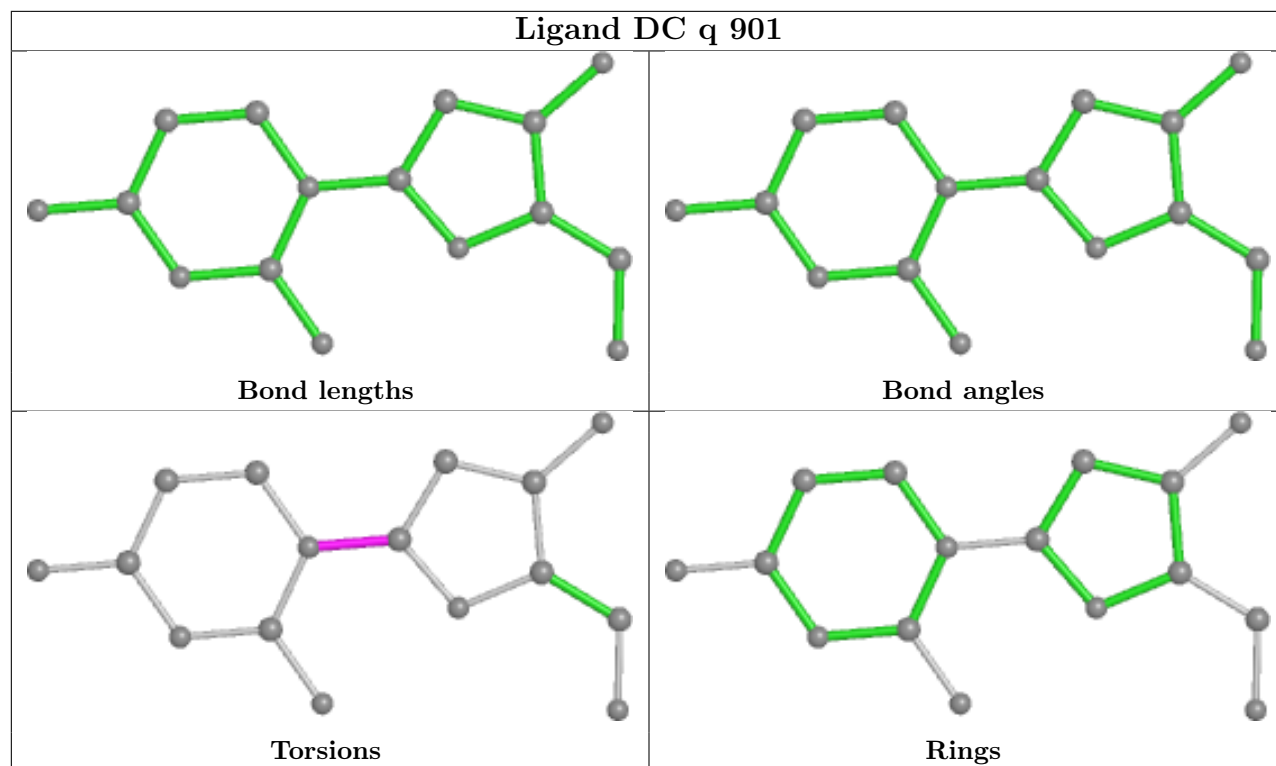


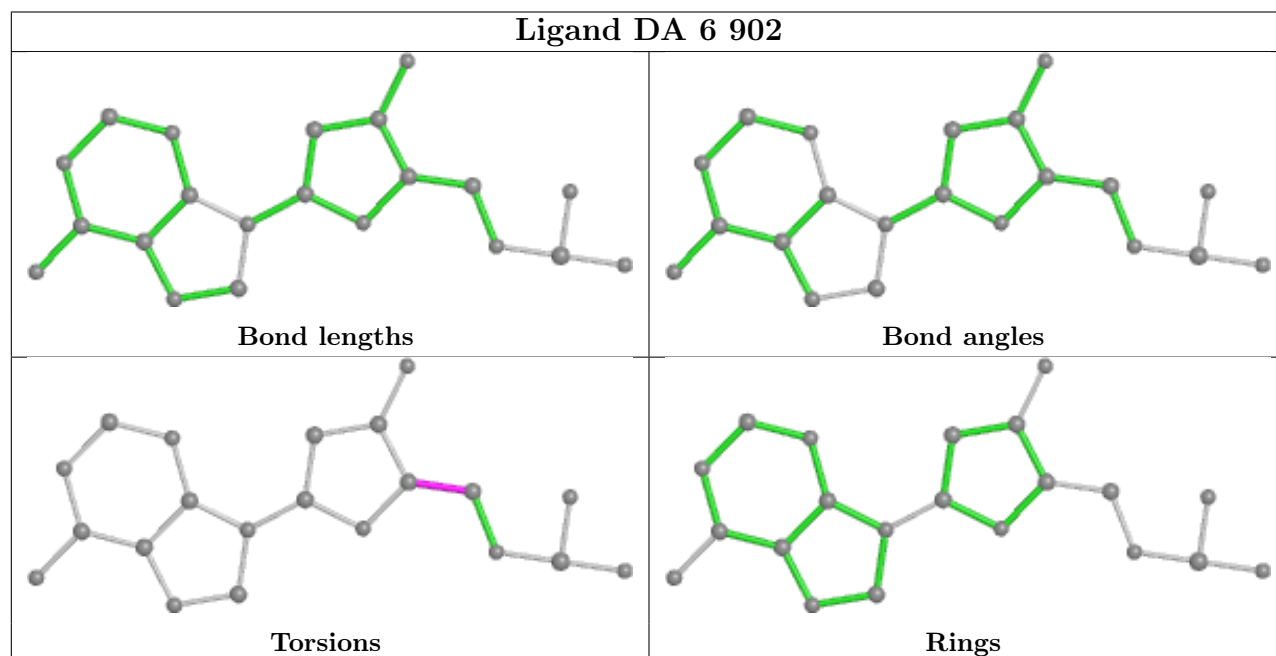
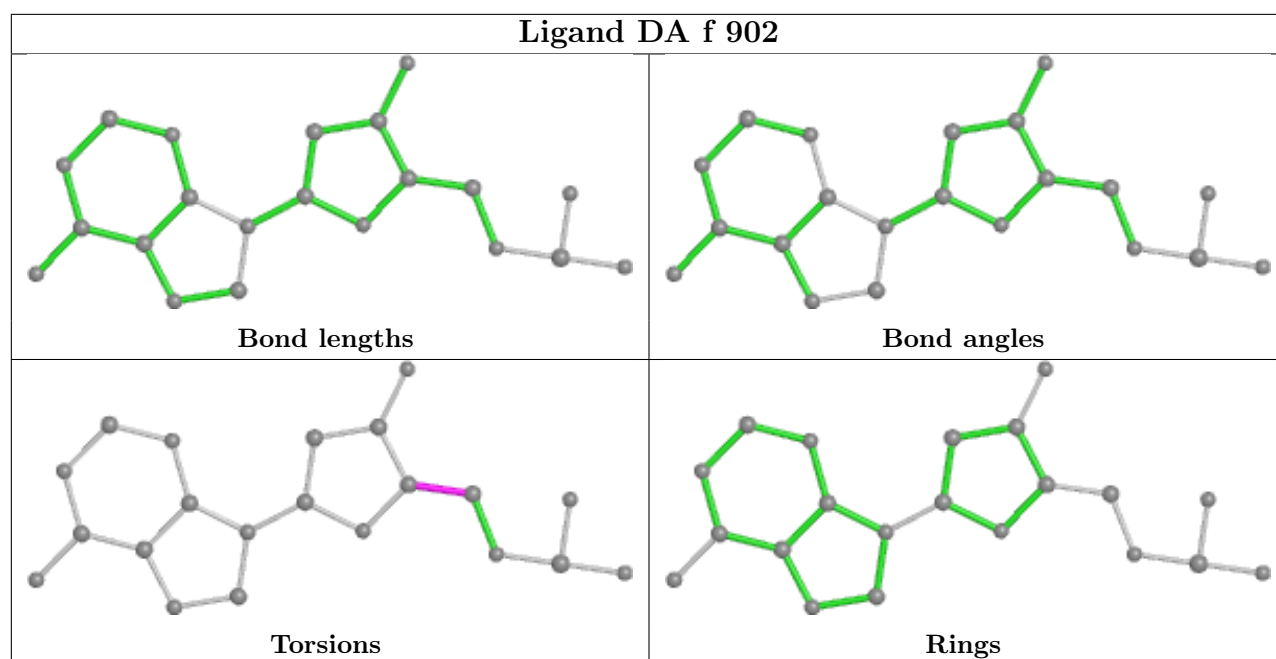
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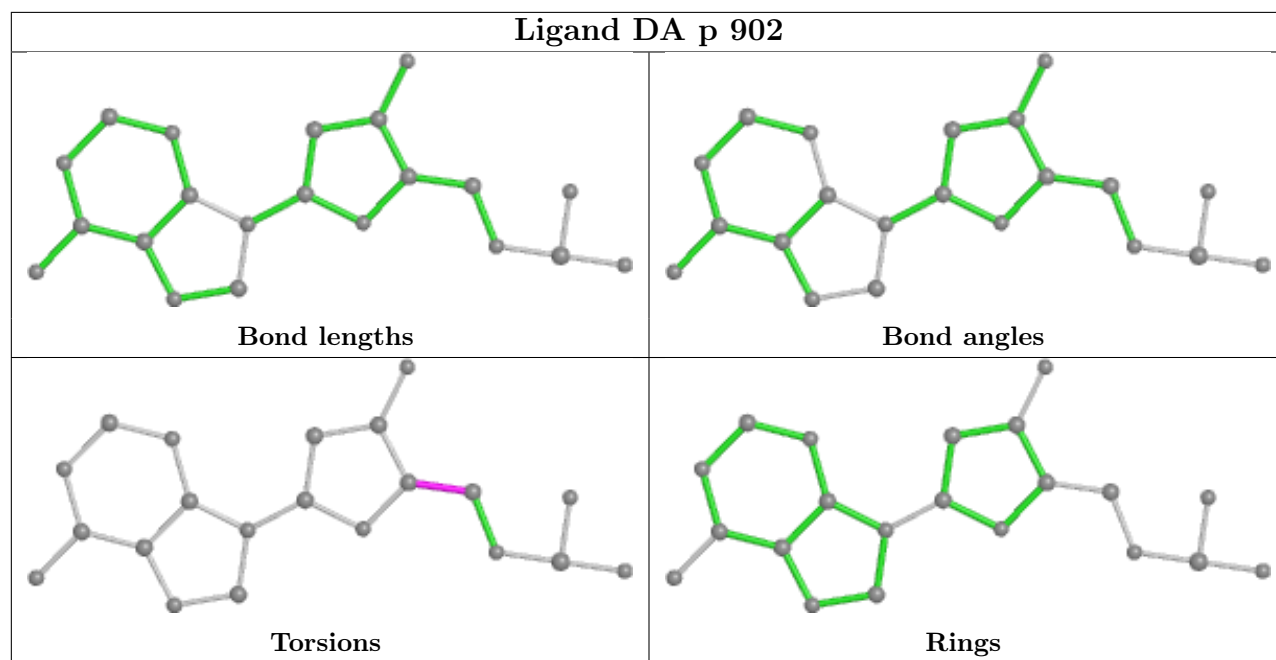
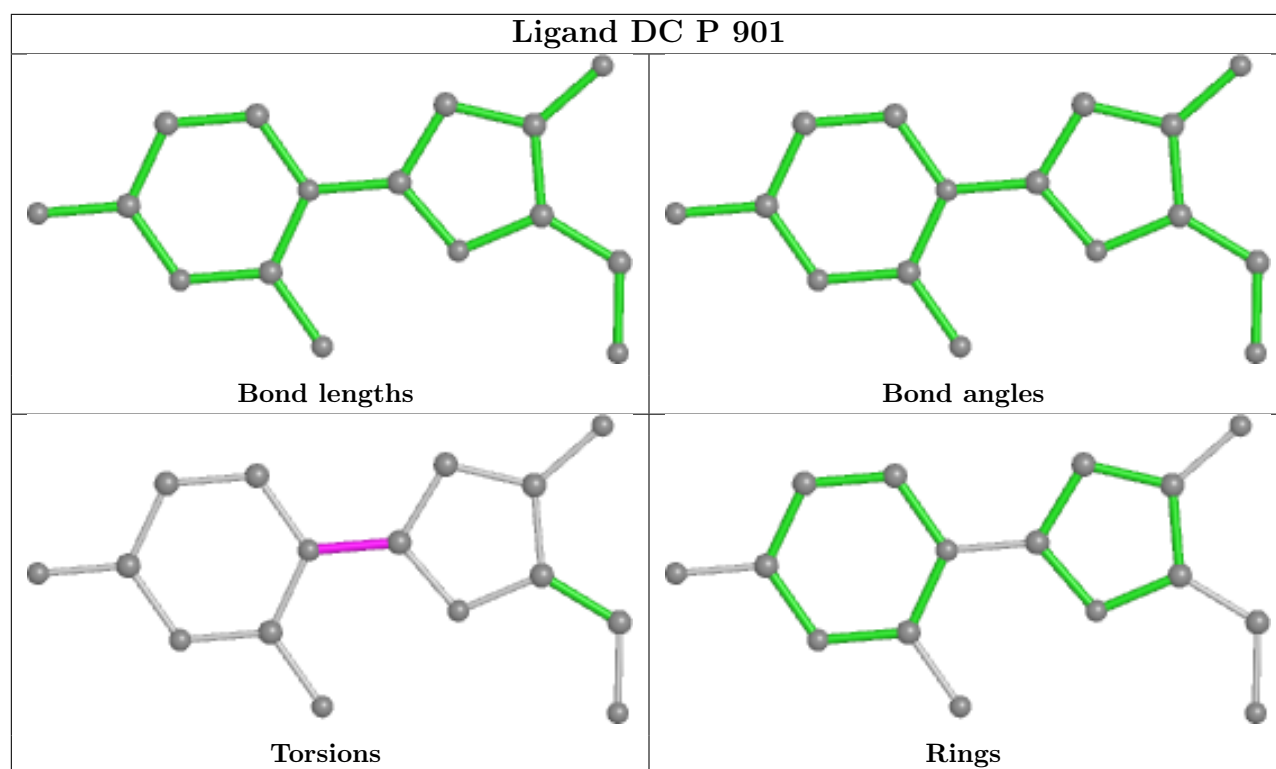


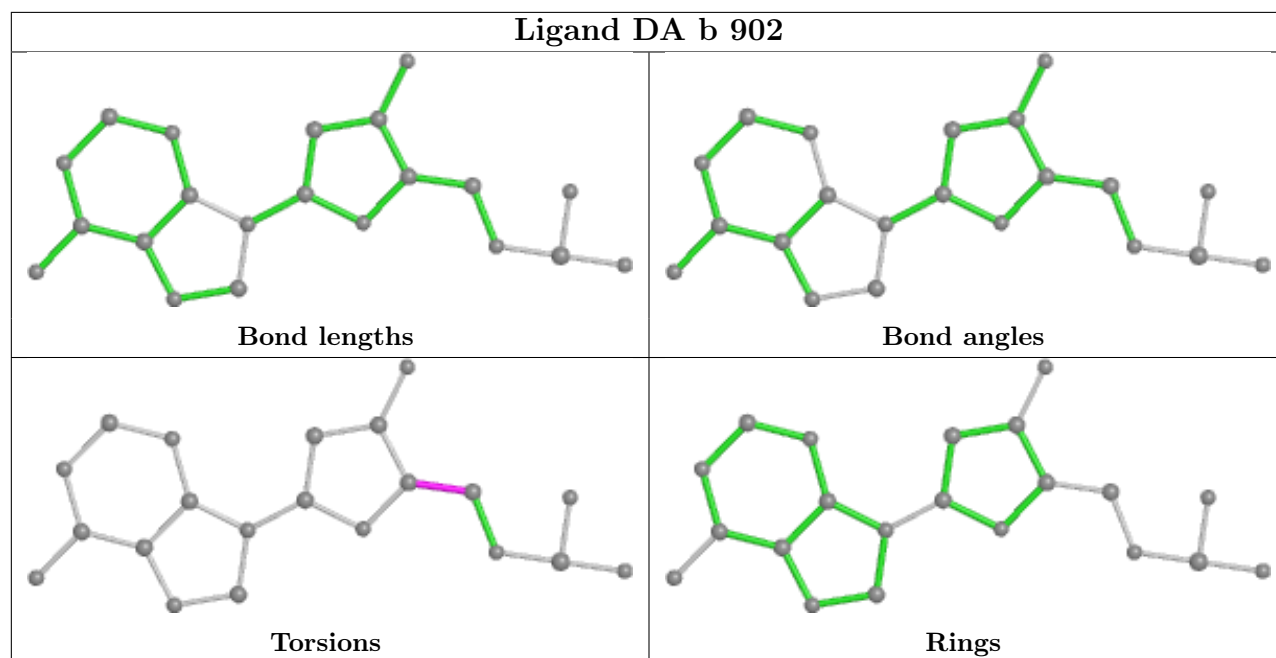
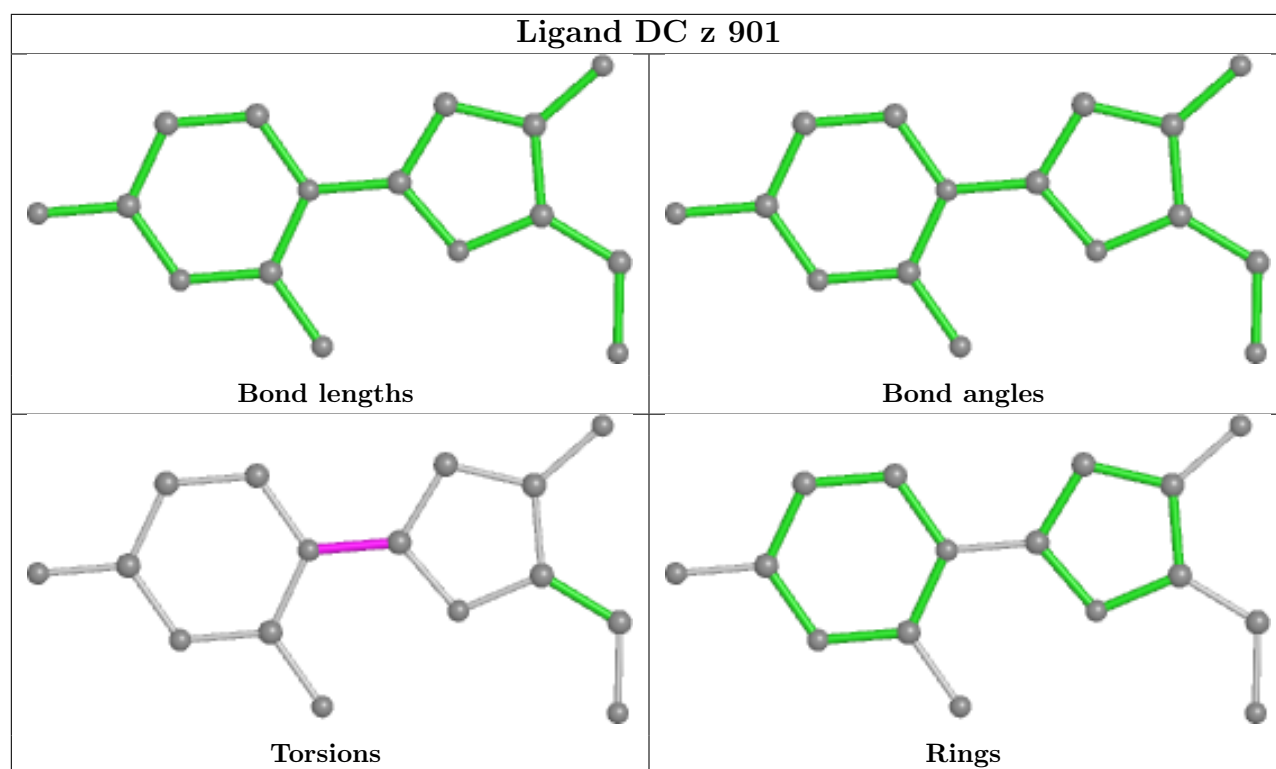




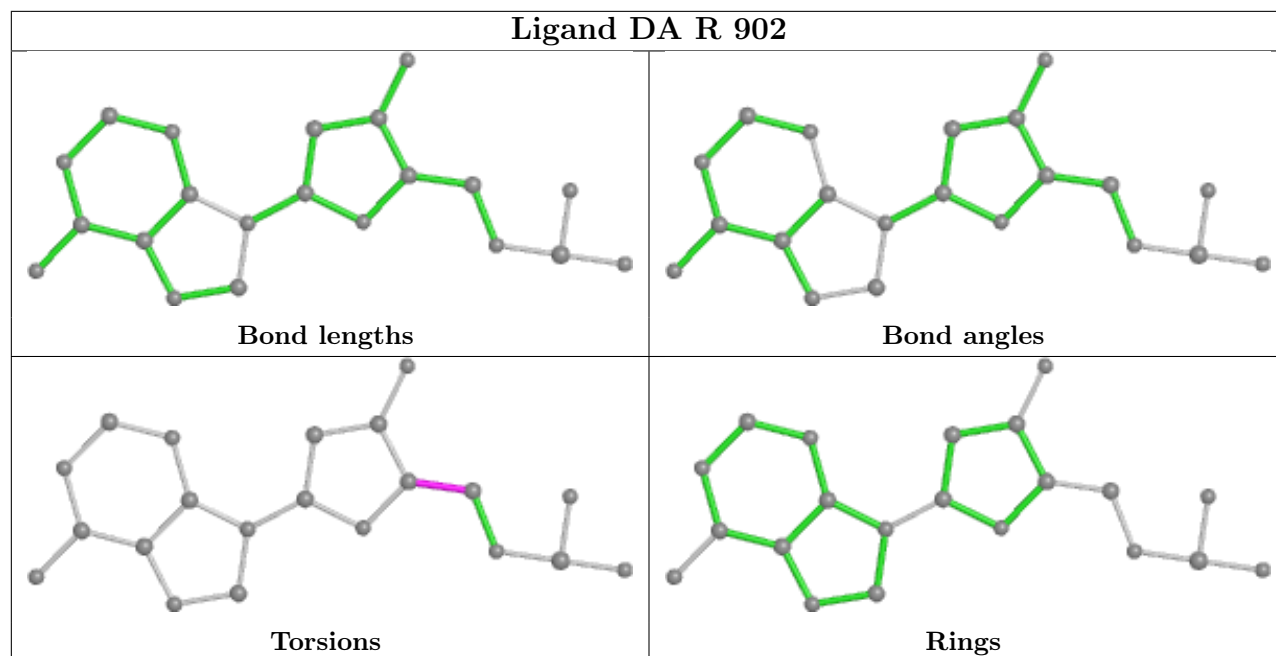




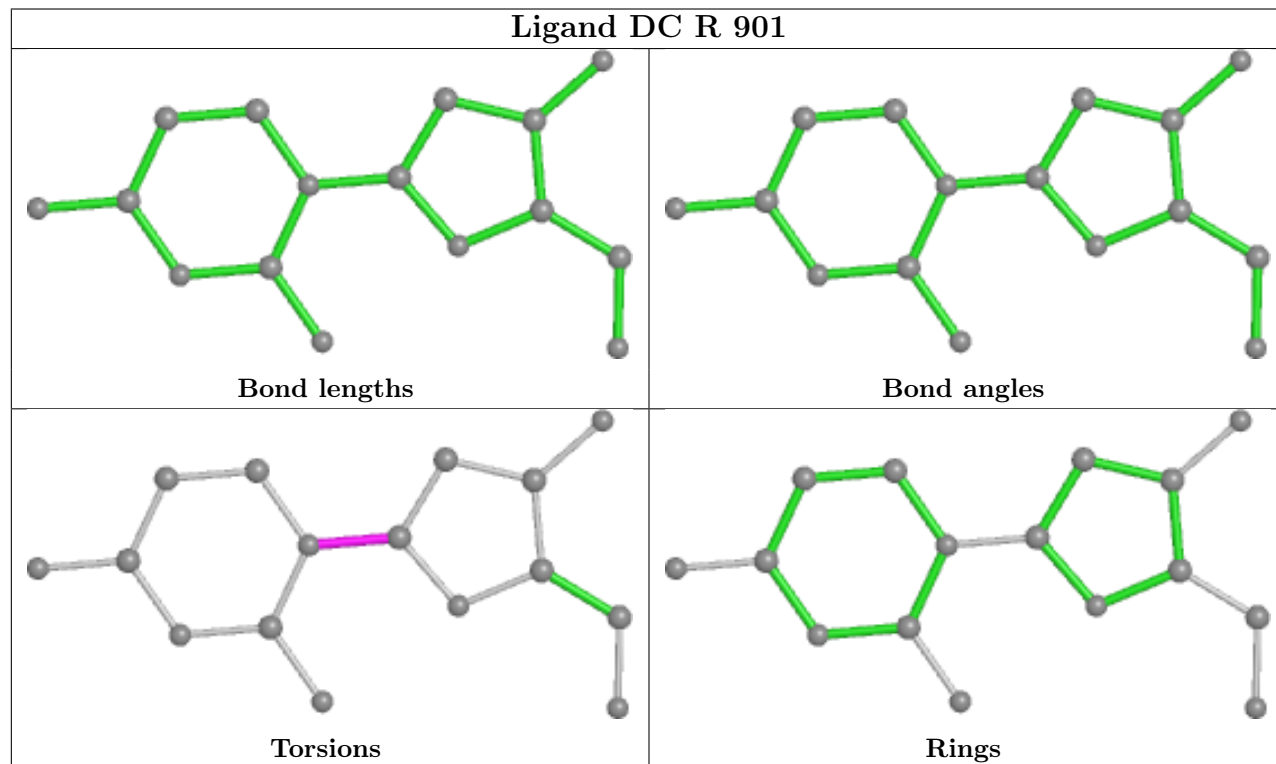




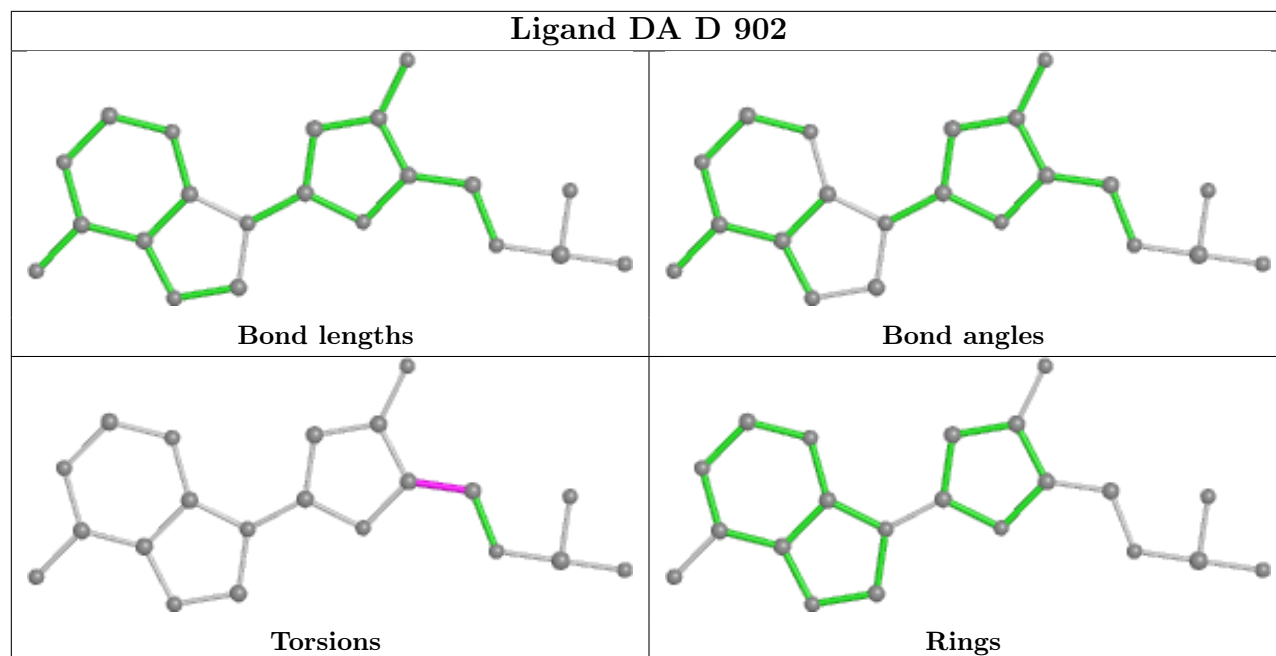
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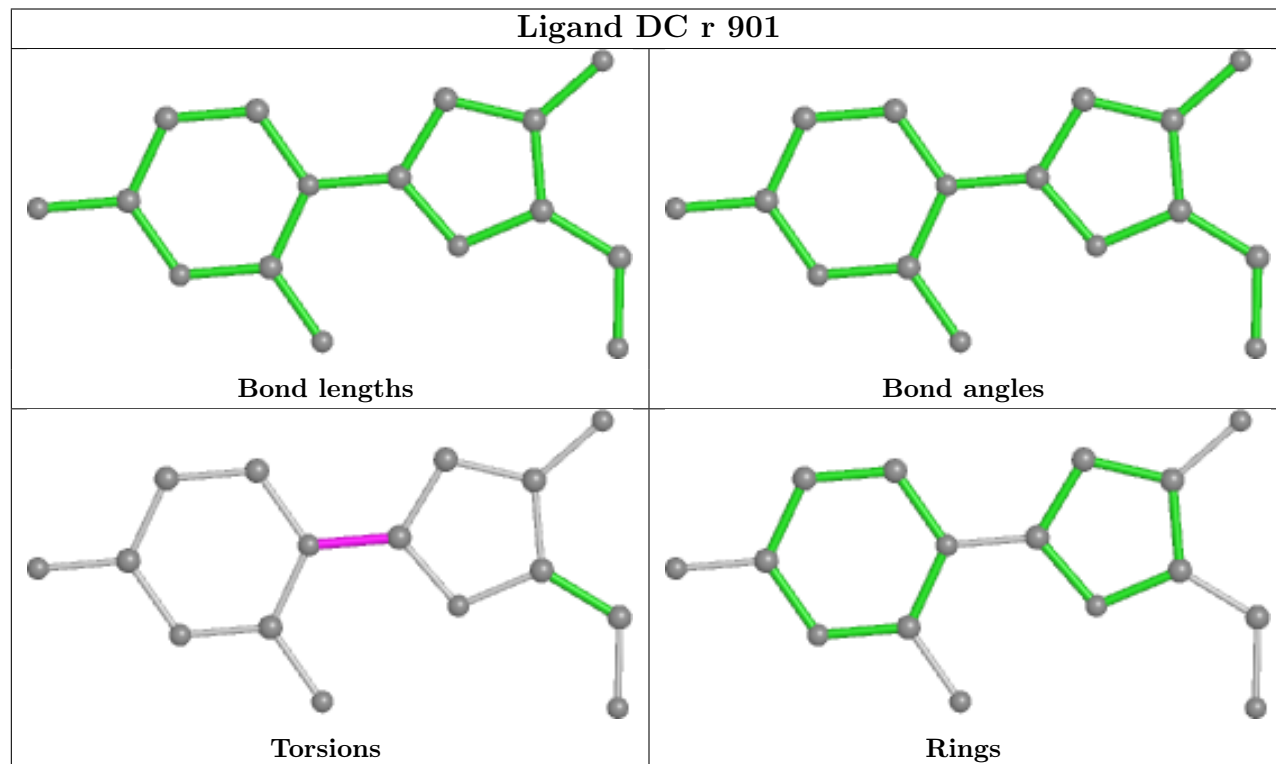
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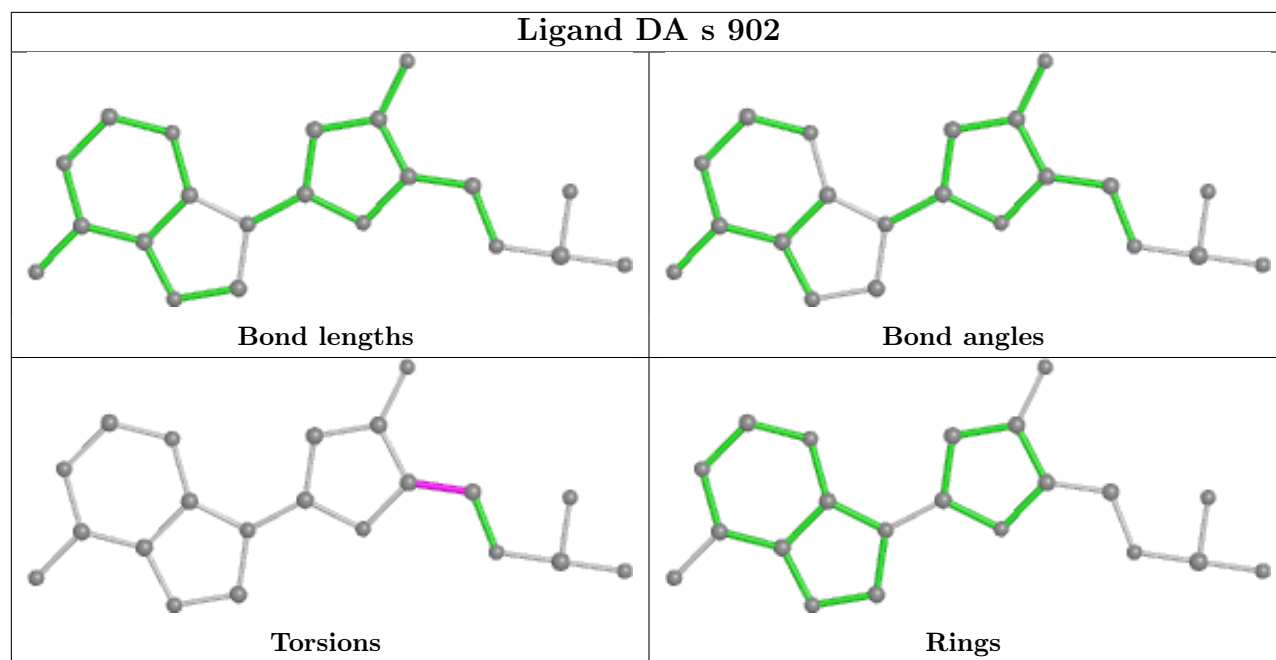
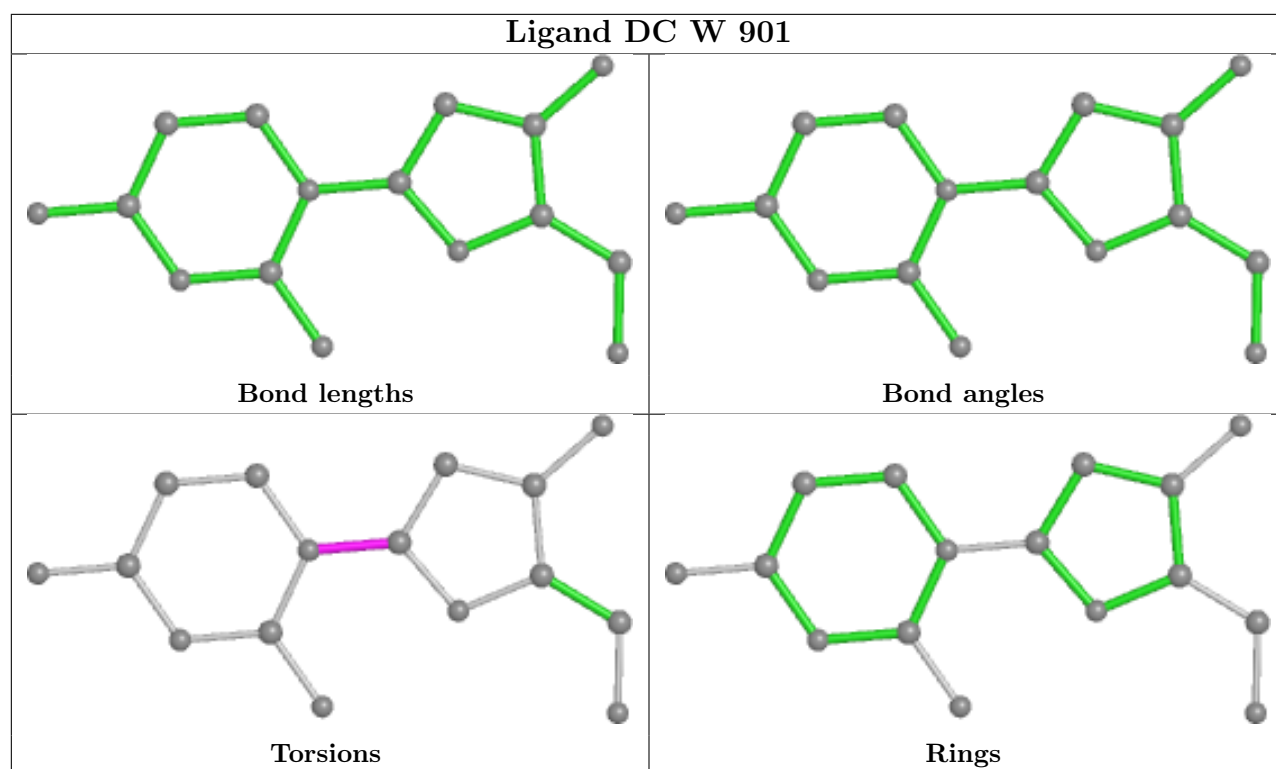


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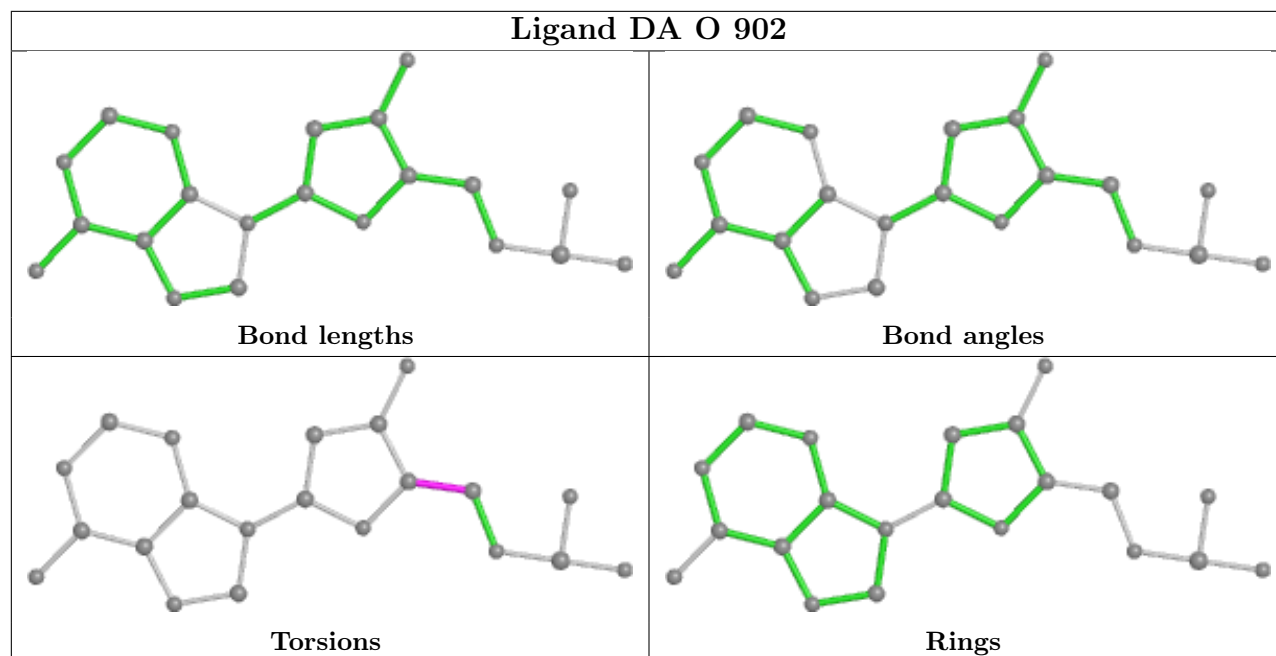


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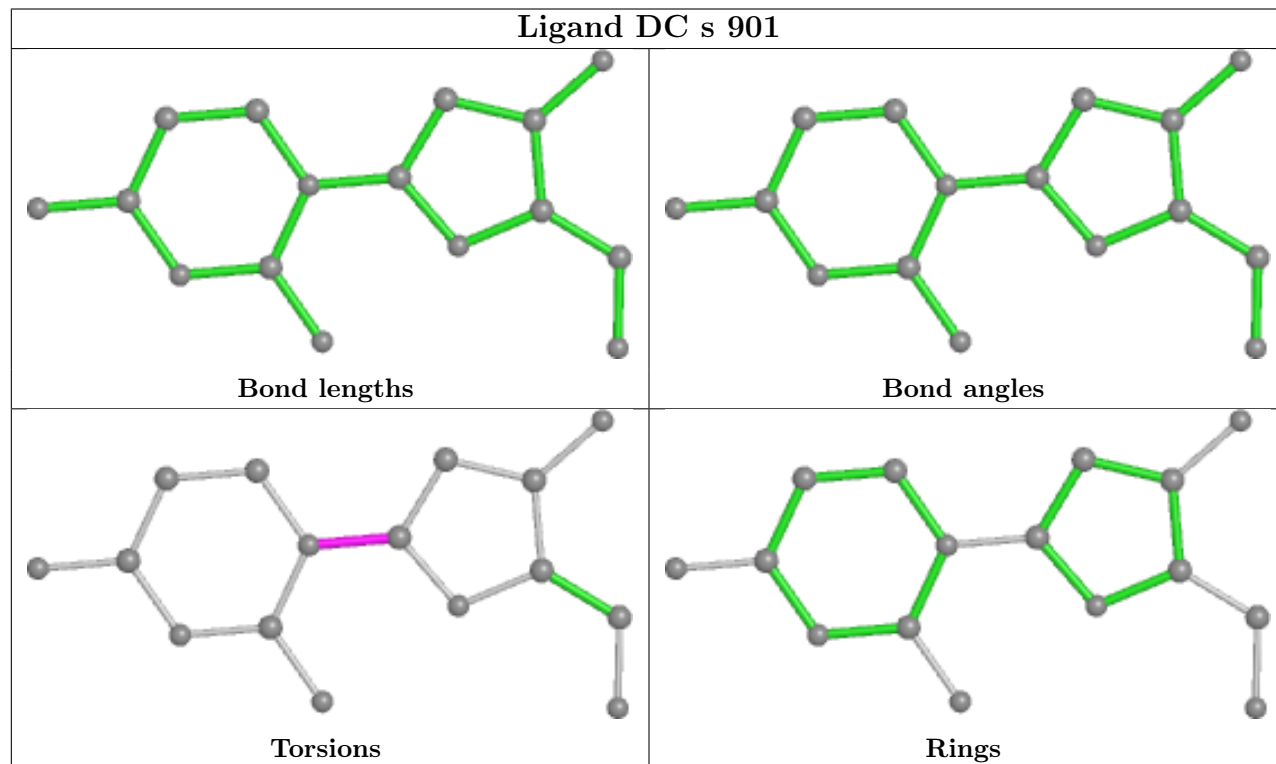




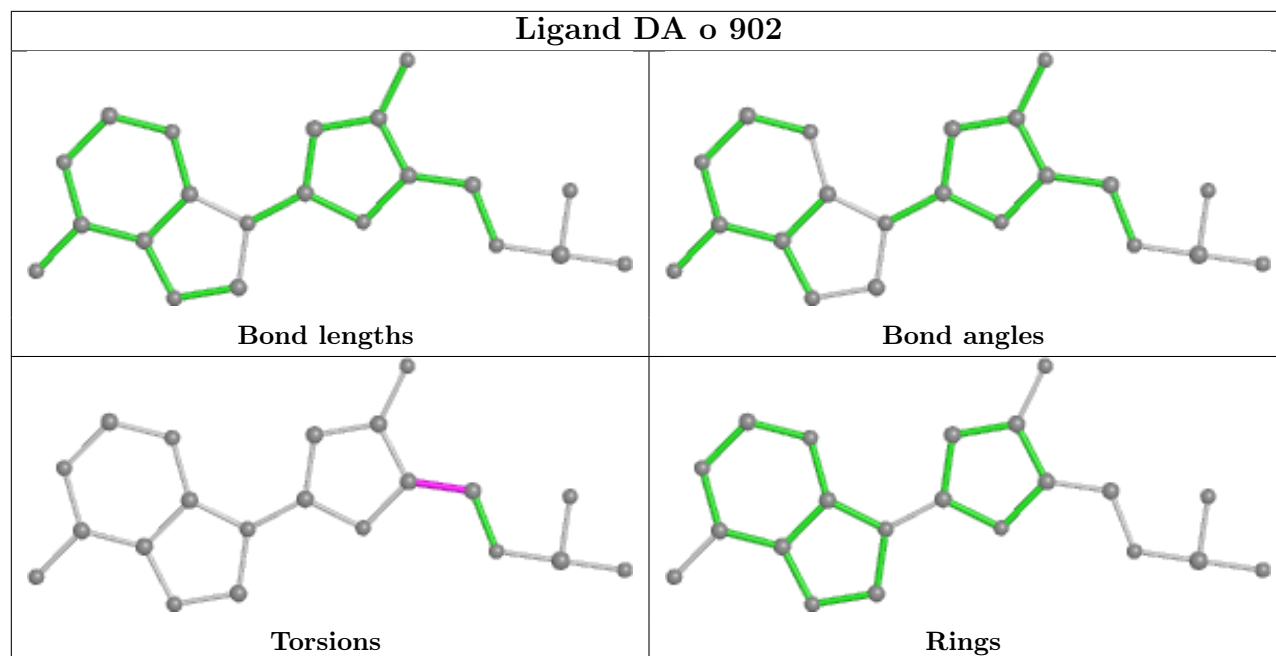
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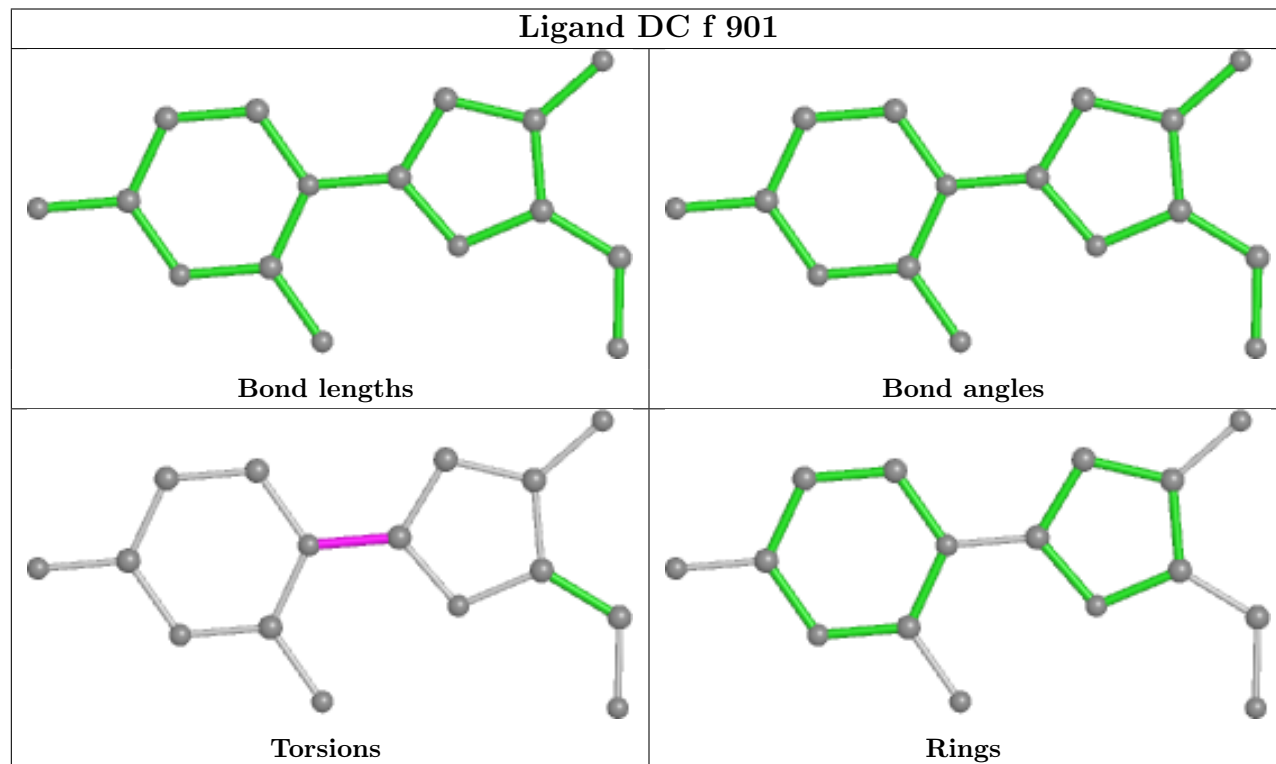
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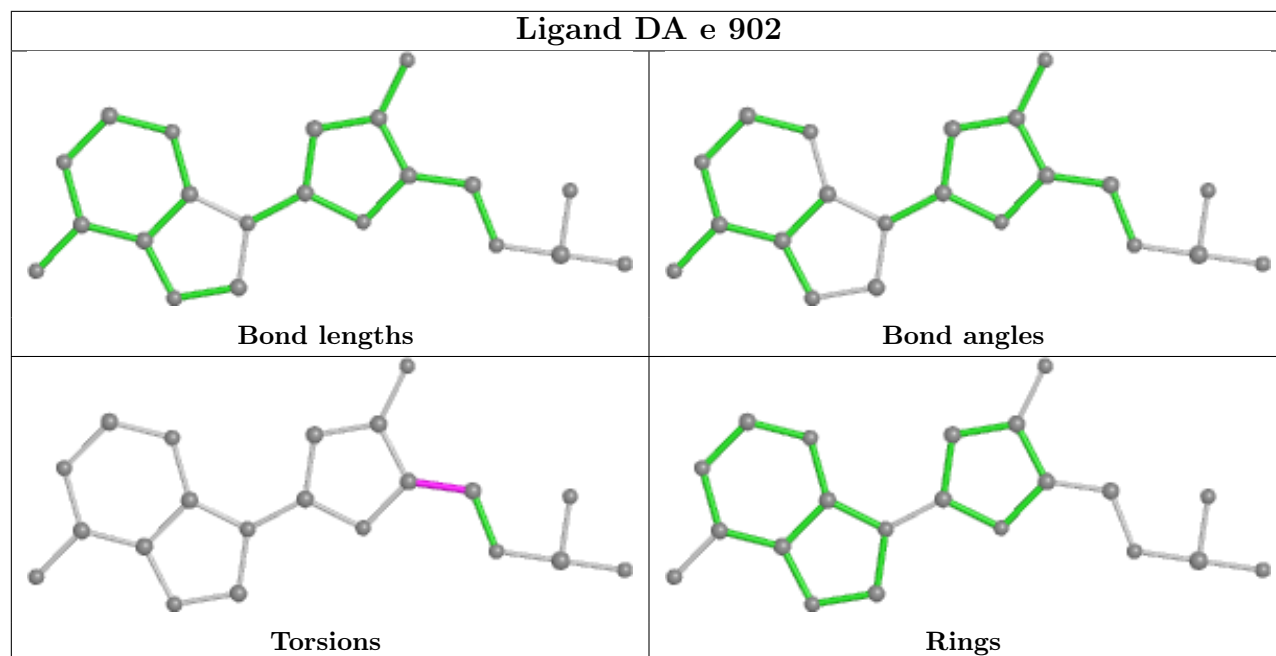
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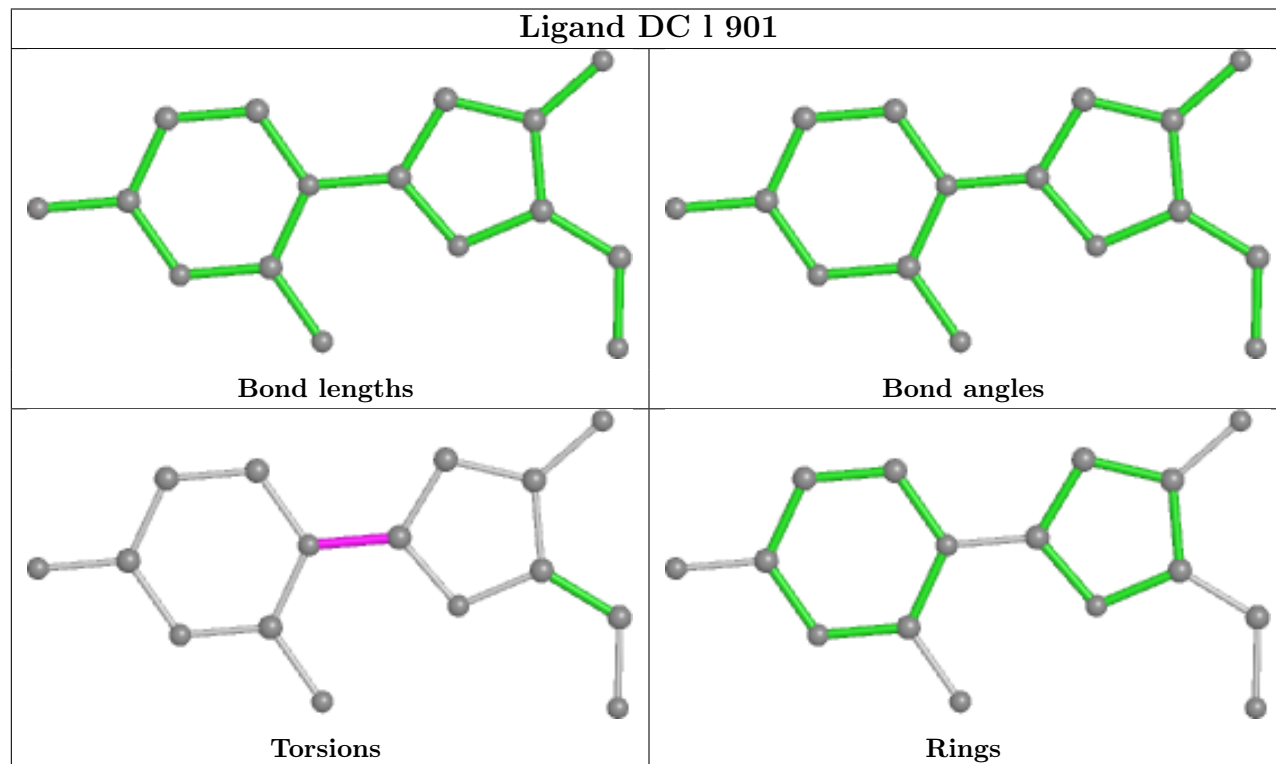
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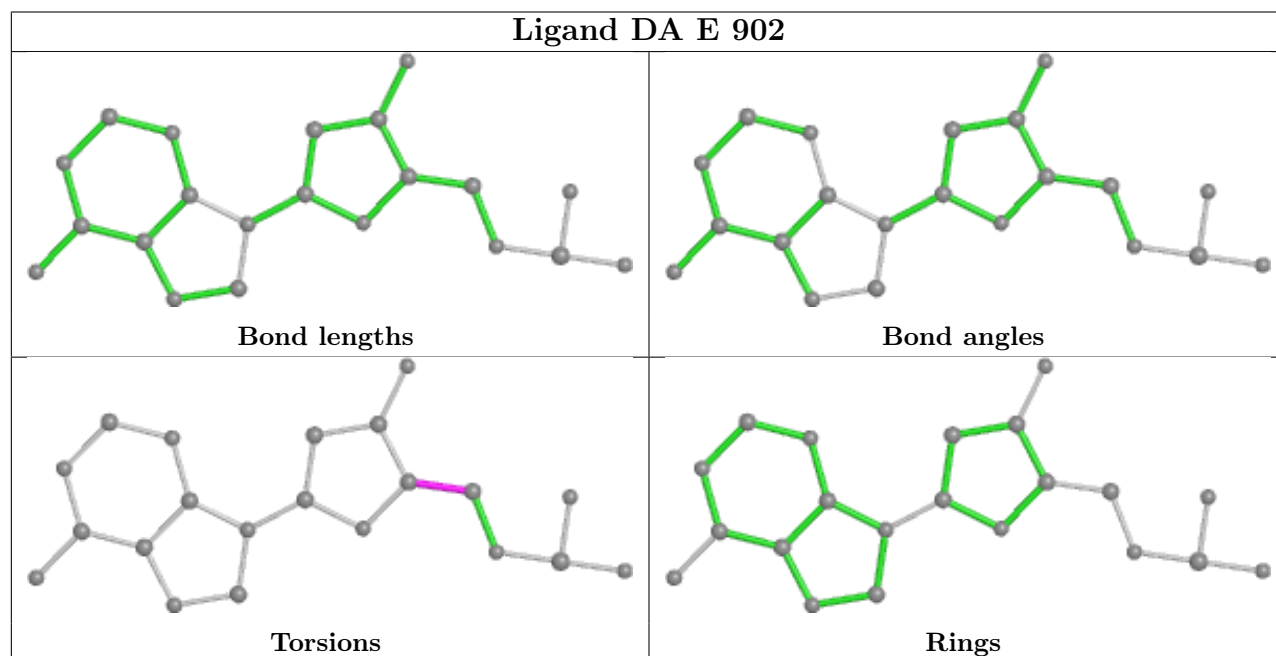
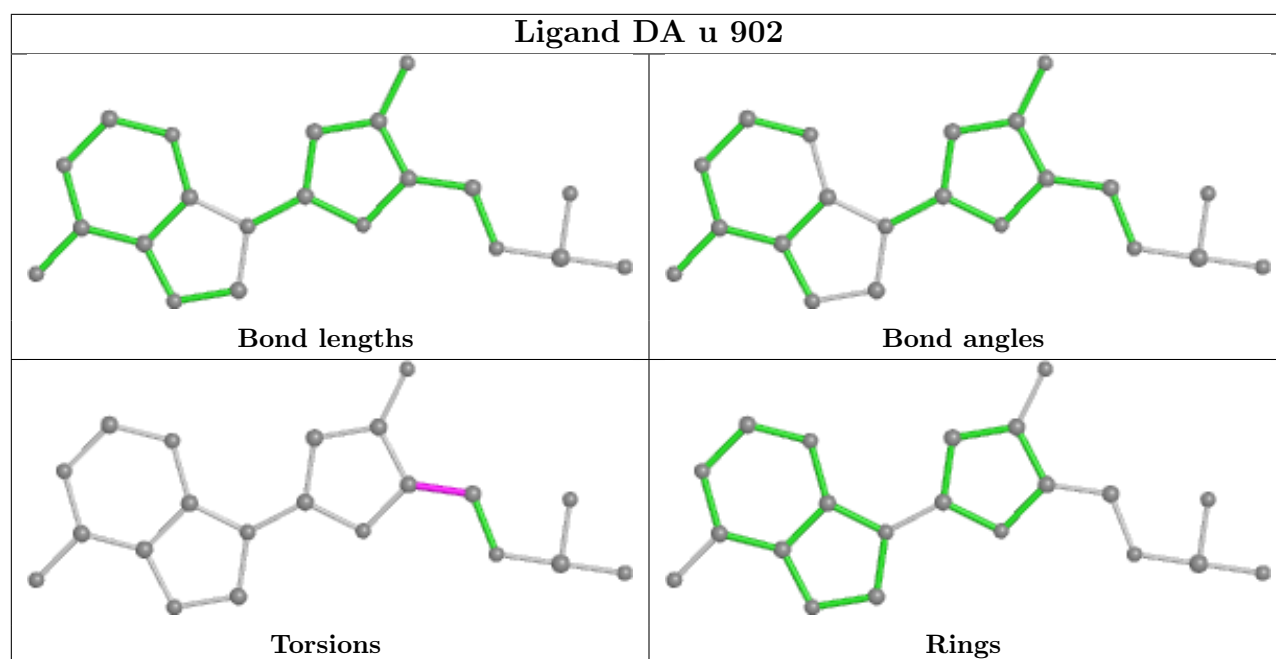


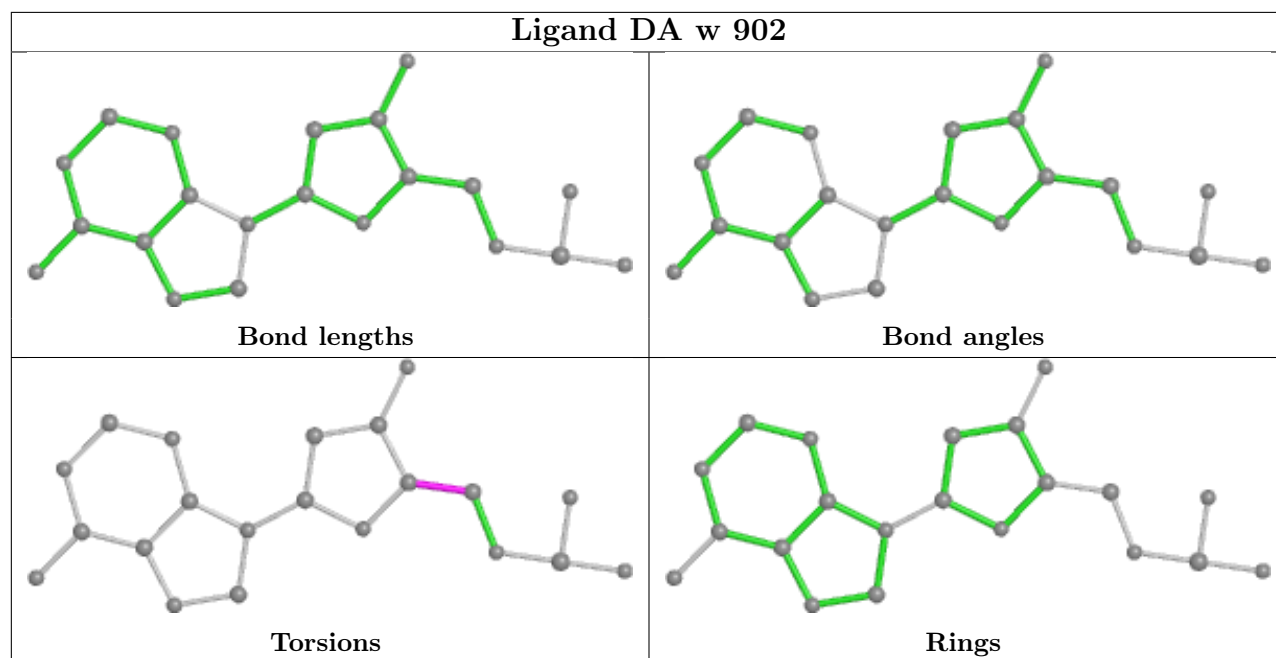
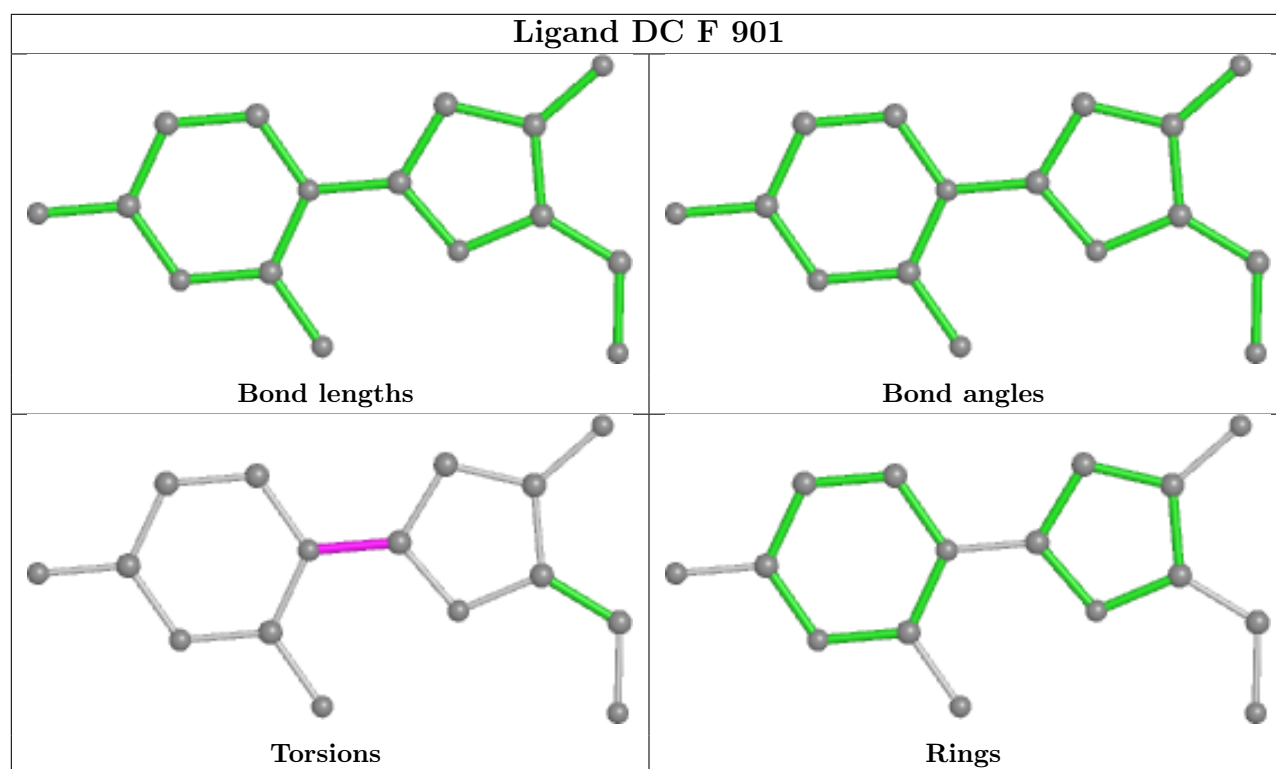
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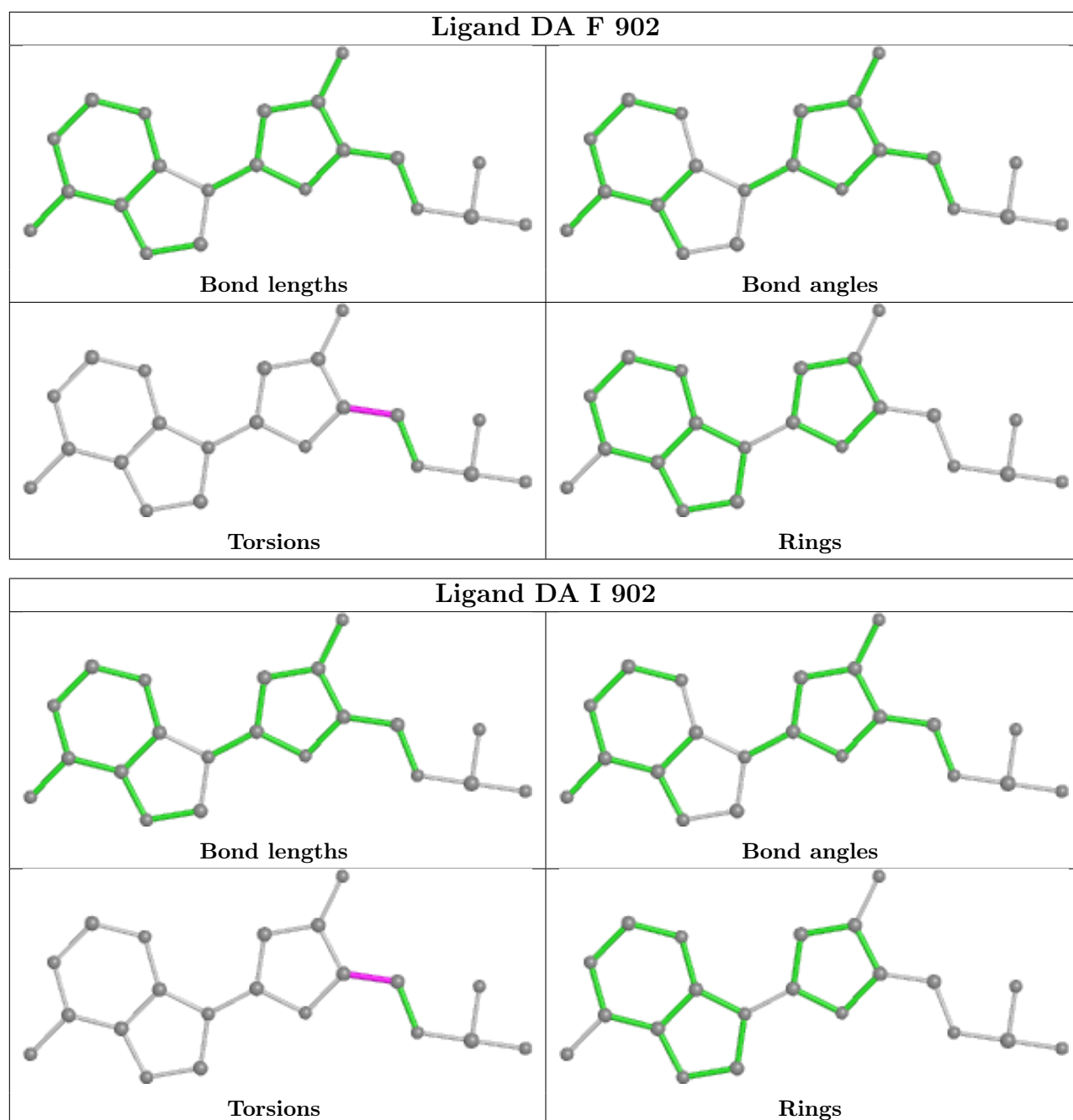


Ligand DC l 901









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

This section contains visualisations of the EMDB entry EMD-21020. 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

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal surface views

This section was not generated.

6.5 Mask visualisation

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

7 Map analysis ⓘ

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

7.1 Map-value distribution ⓘ

This section was not generated.

7.2 Volume estimate versus contour level ⓘ

This section was not generated.

7.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

This section was not generated.