



Full wwPDB EM Validation Report ⓘ

Mar 20, 2025 – 08:39 PM EDT

PDB ID : 9E5C
EMDB ID : EMD-47524
Title : Cryo-EM structure of 96 nm repeat of microtubule doublet from *T. brucei* flagellum
Authors : Xia, X.; Shimogawa, M.M.; Wang, H.; Liu, S.; Wijono, A.; Langousis, G.; Kassem, A.M.; Wohlschlegel, J.A.; Hill, K.; Zhou, Z.H.
Deposited on : 2024-10-28
Resolution : 3.20 Å(reported)

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.dev117
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.41.4

1 Overall quality at a glance

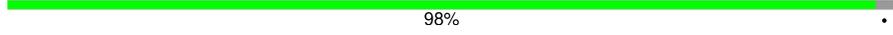
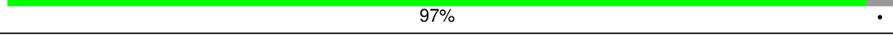
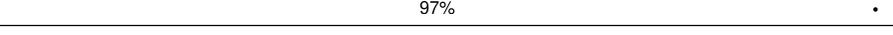
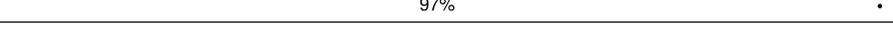
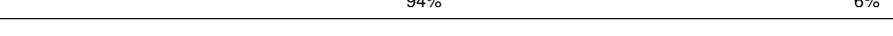
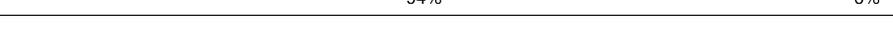
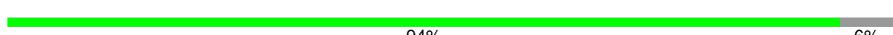
The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.20 Å.

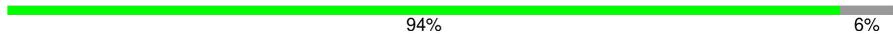
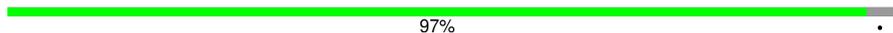
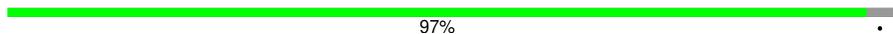
There are no overall percentile quality scores available for this entry.

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	0A	752	 88% 12%
1	0B	752	 98% .
1	0C	752	 97% .
1	0D	752	 88% 12%
1	0E	752	 97% .
1	0F	752	 97% .
2	0G	779	 94% 6%
2	0H	779	 94% 6%
2	0I	779	 94% 6%
3	0J	724	 92% 8%
3	0K	724	 92% 8%
3	0L	724	 92% 8%
4	0M	779	 97% .
4	0N	779	 97% .
5	0O	385	 50% 50%
5	0P	385	 94% 6%
5	0Q	385	 91% . 6%

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Mol	Chain	Length	Quality of chain
5	0R	385	 61% 39%
5	0S	385	 90% 10%
5	0T	385	 80% 20%
6	0U	483	 7% 93%
6	0V	483	 94% 6%
6	0W	483	 94% 6%
6	0X	483	 60% 40%
7	0Y	436	 35% 65%
7	0Z	436	 97%
7	1A	436	 97%
7	1B	436	 29% 71%
8	0a	161	 60% 40%
8	0b	161	 83% 17%
8	0c	161	 81% 17%
8	0d	161	 83% 17%
8	0e	161	 83% 17%
8	0f	161	 24% 76%
9	0g	867	 8% 92%
9	0h	867	 8% 92%
9	0i	867	 8% 92%
9	0j	867	 8% 92%
9	0k	867	 8% 92%
9	0l	867	 8% 92%
9	0m	867	 8% 92%
9	0n	867	 8% 92%

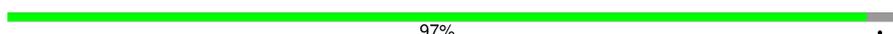
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Mol	Chain	Length	Quality of chain	
9	0o	867	8%	92%
9	0p	867	8%	92%
10	0q	1238	8%	92%
11	0r	476	16%	84%
11	0s	476	43%	57%
12	0t	759	62%	38%
13	0u	744	65%	35%
14	0v	856	49%	51%
14	0w	856	57%	43%
15	0x	872	48%	52%
15	0y	872	52%	47%
16	0z	302	74%	26%
17	1C	334	99%	.
17	1D	334	99%	.
17	1G	334	99%	.
18	1E	349	98%	.
18	1F	349	98%	.
19	1H	422	99%	.
19	1I	422	99%	.
20	1J	422	98%	.
20	1K	422	98%	.
21	1L	356	86%	14%
21	1M	356	86%	14%
22	1N	219	78%	22%
22	1O	219	78%	22%

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Mol	Chain	Length	Quality of chain
23	1P	130	 81% 19%
23	1Q	130	 81% 19%
24	1R	270	 67% 33%
24	1S	270	 67% 33%
25	1T	301	 89% 11%
25	1U	301	 89% 11%
25	1V	301	 89% 11%
26	1W	552	 86% 14%
26	1X	552	 85% 14%
27	1Y	359	 99%
27	1Z	359	 99%
28	1a	848	 60% 40%
29	1b	1032	 50% 50%
30	1c	1340	 72% 27%
31	1d	1204	 79% 20%
32	1e	407	 80% 19%
33	1f	500	 66% 33%
34	1g	651	 87% 12%
35	1h	507	 86% 14%
36	1i	552	 97%
37	1j	461	 91% 8%
38	1k	453	 93% 7%
39	1l	478	 82% 18%
40	1m	1403	 34% 66%
41	1n	568	 72% 28%

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Mol	Chain	Length	Quality of chain	
42	1o	443	93%	6%
43	1p	909	61%	39%
44	1r	1460	94%	5%
45	1t	1760	73%	26%
46	2A	297	93%	7%
46	2B	297	93%	7%
46	2C	297	73%	27%
47	2D	282	87%	12%
47	2E	282	87%	12%
47	2F	282	88%	12%
48	2G	320	93%	7%
48	2H	320	93%	7%
48	2I	320	93%	7%
49	2J	249	95%	5%
49	2K	249	95%	5%
49	2L	249	95%	5%
50	2M	254	92%	8%
50	2N	254	92%	8%
50	2O	254	58%	41%
51	2P	182	90%	9%
51	2Q	182	90%	9%
52	2R	386	67%	33%
52	2S	386	67%	33%
52	2T	386	67%	33%
53	2U	417	70%	30%

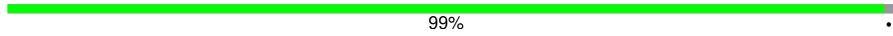
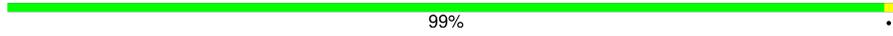
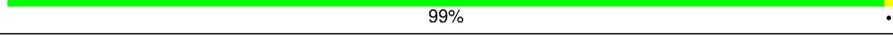
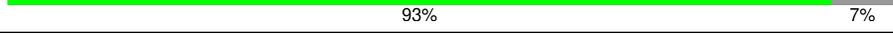
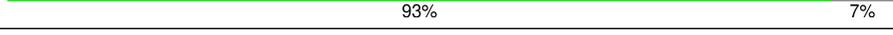
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Mol	Chain	Length	Quality of chain
53	2V	417	 90% 10%
53	2W	417	 90% 10%
54	2X	415	 89% 11%
54	2Y	415	 89% 11%
54	2Z	415	 31% 69%
54	3D	415	 25% 75%
55	2a	322	 100%
55	2b	322	 100%
55	2c	322	 100%
55	2d	322	 100%
56	2e	518	 97% ..
56	2f	518	 98% .
56	2g	518	 98% .
56	2h	518	 97% ..
57	2i	332	 48% . 50%
57	2j	332	 84% 16%
57	2k	332	 64% . 35%
57	2l	332	 65% . 34%
58	2m	585	 90% 10%
58	2n	585	 90% 10%
58	2o	585	 90% 10%
58	2p	585	 89% . 10%
59	2q	548	 90% 10%
59	2r	548	 90% 10%
59	2s	548	 90% 10%

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Mol	Chain	Length	Quality of chain
59	2t	548	 85% 14%
60	2u	433	 99%
61	2v	297	 99%
61	2w	297	 100%
61	2x	297	 100%
61	2y	297	 99%
62	2z	333	 93% 7%
62	3a	333	 83% 16%
62	3b	333	 93% 7%
62	3c	333	 81% 18%
63	3A	415	 49% 51%
63	3B	415	 73% 27%
63	3C	415	 73% 27%
64	3E	247	 48% 51%
64	3F	247	 40% 60%
64	3G	247	 48% 51%
64	3H	247	 40% 60%
64	3I	247	 48% 51%
65	3J	954	 67% 32%
65	3K	954	 58% 42%
65	3L	954	 10% 90%
66	3M	300	 92% 8%
66	3N	300	 92% 8%
66	3O	300	 92% 8%
66	3P	300	 92% 8%

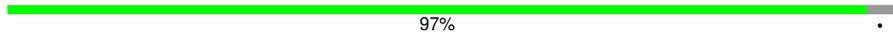
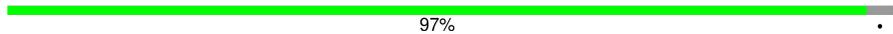
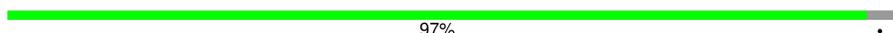
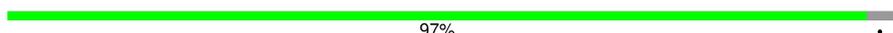
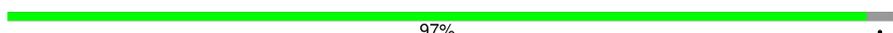
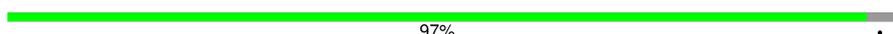
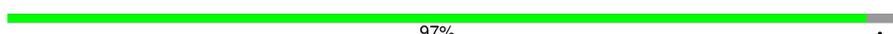
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Mol	Chain	Length	Quality of chain	
66	3Q	300	92%	8%
66	3R	300	92%	8%
66	3S	300	92%	8%
66	3T	300	92%	8%
67	3U	312	72%	28%
67	3V	312	72%	28%
67	3W	312	72%	28%
67	3X	312	72%	28%
67	3Y	312	72%	28%
68	3Z	294	63%	37%
68	4A	294	63%	37%
68	4B	294	63%	37%
68	4C	294	63%	37%
68	4D	294	63%	37%
68	4E	294	63%	37%
68	4F	294	63%	37%
68	4G	294	63%	37%
68	4H	294	63%	37%
68	4I	294	62%	37%
68	4J	294	63%	37%
68	4K	294	62%	37%
68	4L	294	63%	37%
68	4M	294	63%	37%
68	4N	294	63%	37%
69	3d	823	82%	18%

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Mol	Chain	Length	Quality of chain
69	3e	823	 82% 18%
69	3f	823	 82% 18%
69	3g	823	 82% 18%
70	3h	318	 97% .
70	3i	318	 97% .
71	3j	384	 99% .
72	3k	366	 99% .
73	3l	319	 94% . 5%
73	3m	319	 90% 9%
73	3o	319	 93% . 5%
73	3p	319	 89% . 9%
74	3q	262	 85% 15%
74	3r	262	 85% 15%
74	3s	262	 85% 15%
74	3t	262	 84% . 15%
75	3u	90	 97% .
75	3v	90	 97% .
75	3w	90	 98% .
75	3x	90	 97% .
75	3y	90	 97% .
75	3z	90	 97% .
75	4a	90	 97% .
75	4b	90	 97% .
75	4c	90	 97% .
75	4d	90	 97% .

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Mol	Chain	Length	Quality of chain
75	4e	90	96% .
75	4f	90	96% .
75	4g	90	97% .
75	4h	90	97% .
75	4i	90	96% .
75	4j	90	96% .
75	4k	90	96% .
75	4l	90	96% .
75	4m	90	94% . .
75	4n	90	96% .
75	5s	90	97% .
75	5t	90	98% . .
75	5u	90	92% . 7%
75	5v	90	90% 6% .
75	5w	90	100%
75	5x	90	100%
75	7k	90	98% . .
75	7n	90	91% . 7%
75	7o	90	94% . .
75	7p	90	96% .
75	8k	90	98% . .
75	8n	90	92% . 7%
75	8o	90	93% . .
75	8p	90	94% . .
75	9k	90	98% . .

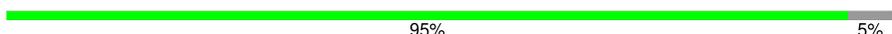
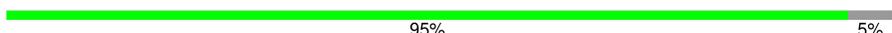
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Mol	Chain	Length	Quality of chain
75	9n	90	91% 7%
75	9o	90	94%
75	9p	90	94%
76	4O	629	98%
76	4P	629	99%
76	4Q	629	99%
76	4R	629	98%
76	4S	629	99%
76	4T	629	99%
76	4U	629	98%
77	4V	274	87% 12%
77	4W	274	88% 12%
77	4X	274	87% 12%
77	4Y	274	88% 12%
77	4Z	274	87% 12%
78	4o	220	100%
78	4p	220	100%
79	4q	879	97%
79	4r	879	97%
80	4s	842	96%
80	4t	842	96%
81	4u	569	88% 12%
81	4v	569	88% 12%
82	4w	701	73% 27%
83	4x	149	99%

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Mol	Chain	Length	Quality of chain
84	4y	718	 92% 8%
85	4z	640	 82% 18%
86	5A	374	 60% 39%
86	5B	374	 60% 39%
87	5C	369	 75% 24%
87	5D	369	 74% 25%
87	5E	369	 75% 25%
87	5F	369	 75% 24%
87	5G	369	 74% 25%
87	5H	369	 75% 25%
87	5I	369	 75% 24%
87	5J	369	 47% 53%
88	5K	483	 31% 68%
88	5S	483	 34% 66%
88	5T	483	 95% 5%
88	5U	483	 95% 5%
88	5V	483	 61% 39%
88	5W	483	 98%
88	5X	483	 78% 21%
89	5L	262	 91% 9%
89	5M	262	 91% 9%
90	5N	272	 87% 12%
90	5O	272	 88% 12%
90	5P	272	 88% 12%
90	5Q	272	 88% 12%

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Mol	Chain	Length	Quality of chain	
90	5R	272	87%	12%
91	5Y	515	79%	21%
91	5Z	515	90%	10%
91	6A	515	51%	49%
92	5a	581	26%	73%
93	5b	709	24%	76%
94	5c	1027	89%	11%
95	5d	1347	94%	5%
96	5e	299	75%	25%
97	5f	682	47%	53%
98	5g	616	71%	29%
99	5h	4599	30%	70%
99	5i	4599	72%	27%
100	5j	4674	29%	71%
100	5k	4674	73%	27%
101	5l	864	50%	50%
102	5m	809	59%	41%
103	5n	687	93%	6%
104	5o	413	82%	18%
105	5p	124	89%	10%
105	7i	124	90%	10%
105	8i	124	90%	10%
105	9i	124	90%	10%
106	5q	118	82%	17%
106	7l	118	83%	17%

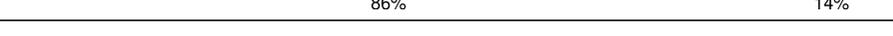
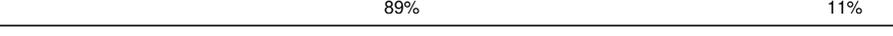
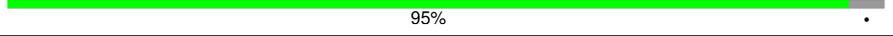
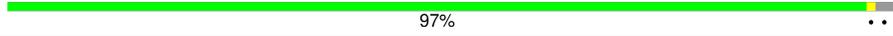
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Mol	Chain	Length	Quality of chain
106	8l	118	83% 17%
106	9l	118	82% 17%
107	5r	98	97%
107	7m	98	97%
107	8m	98	97%
107	9m	98	96%
108	5y	116	87% 12%
108	7q	116	88% 12%
108	8q	116	88% 12%
108	9q	116	88% 12%
109	6B	348	27% 73%
109	6C	348	91% 9%
109	6D	348	91% 9%
109	6E	348	23% 77%
109	6F	348	98%
109	6G	348	99%
109	6H	348	52% 48%
109	6I	348	68% 31%
109	6J	348	99%
109	6K	348	81% 18%
109	6L	348	41% 59%
109	6M	348	99%
109	6N	348	99%
109	6O	348	72% 27%
109	6P	348	72% 27%

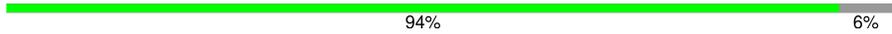
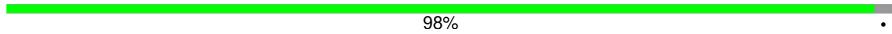
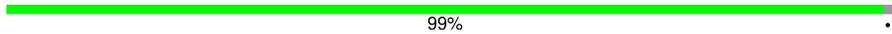
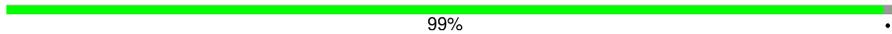
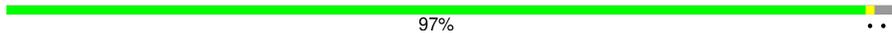
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Mol	Chain	Length	Quality of chain
109	6Q	348	
110	6R	266	
110	6S	266	
110	6T	266	
110	6U	266	
110	6V	266	
110	6W	266	
110	6X	266	
110	6Y	266	
110	6Z	266	
110	7A	266	
110	7B	266	
110	7C	266	
110	7D	266	
110	7E	266	
110	7F	266	
110	7G	266	
110	7H	266	
110	7I	266	
110	7J	266	
110	7K	266	
110	9Z	266	
111	6a	4246	
112	6b	4142	
113	6c	4112	

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Mol	Chain	Length	Quality of chain
114	6d	4242	 94% 6%
115	6e	4152	 98%
116	6f	376	 99%
116	6g	376	 99%
117	6h	394	 100%
118	6i	421	 97%
119	6j	433	 90% 9%
120	6k	235	 71% 29%
120	6l	235	 90% 9%
120	6m	235	 94% 6%
121	6n	373	 52% 48%
122	6o	274	 88% 11%
123	6p	306	 54% 46%
124	6q	363	 93% 7%
125	6r	481	 75% 24%
126	6s	470	 79% 21%
127	6t	165	 93% 7%
128	6u	186	 82% 18%
129	7L	270	 57% 43%
129	7M	270	 57% 43%
130	7N	325	 50% 50%
130	7O	325	 50% 50%
130	7P	325	 50% 50%
131	7Q	191	 84% 16%
131	7R	191	 84% 16%

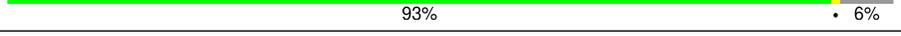
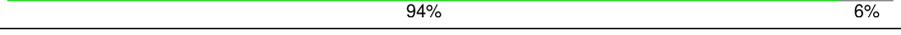
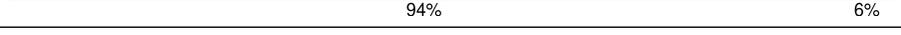
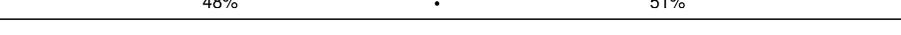
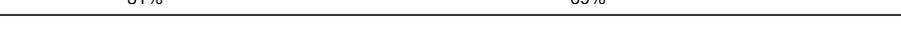
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Mol	Chain	Length	Quality of chain	
131	7S	191	84%	16%
132	7T	320	50%	50%
132	7U	320	93%	7%
132	8L	320	74%	26%
133	7V	278	86%	14%
133	7W	278	85%	14%
133	7X	278	83%	17%
133	7Y	278	86%	14%
133	7Z	278	85%	14%
133	8A	278	83%	17%
133	8B	278	86%	14%
133	8C	278	85%	14%
134	7a	4639	74%	26%
134	7e	4639	100%	
134	8e	4639	100%	
134	9e	4639	100%	
135	7b	4658	72%	28%
135	7f	4658	98%	
135	8f	4658	98%	
135	9f	4658	98%	
136	7c	570	59%	40%
136	8c	570	59%	40%
136	9c	570	59%	40%
137	7d	114	65%	30%
137	8d	114	68%	30%

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Mol	Chain	Length	Quality of chain
137	9d	114	 68% 30%
138	7g	602	 88% 11%
138	8g	602	 88% 11%
138	9g	602	 88% 11%
139	7h	655	 93% 7%
139	8h	655	 92% 7%
139	9h	655	 93% 7%
140	7j	112	 93% 6%
140	8j	112	 94% 6%
140	9j	112	 94% 6%
141	7r	125	 78% 22%
141	8r	125	 77% 22%
141	9r	125	 76% 22%
142	7s	668	 24% 75%
142	8s	668	 48% 51%
142	9a	668	 27% 73%
142	9s	668	 51% 49%
143	7t	575	 31% 69%
143	8t	575	 58% 41%
143	9b	575	 31% 69%
143	9t	575	 62% 37%
144	8D	269	 92% 7%
144	8E	269	 45% 55%
144	8F	269	 88% 11%
144	8G	269	 93% 7%

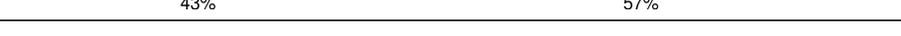
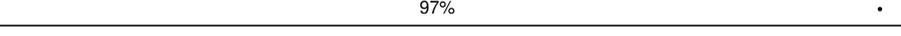
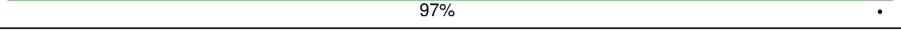
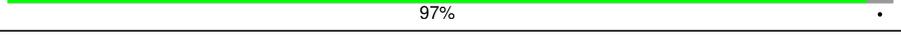
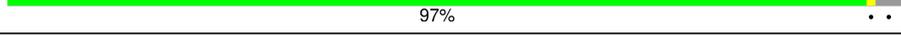
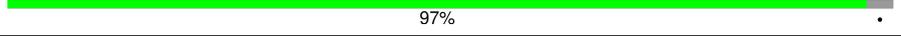
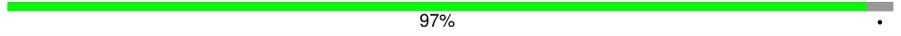
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Mol	Chain	Length	Quality of chain	
144	8H	269	45%	55%
144	8I	269	88%	11%
144	8J	269	93%	7%
144	8K	269	45%	55%
145	8M	420	24%	76%
145	8N	420	26%	74%
145	8O	420	25%	75%
145	8P	420	24%	76%
145	8Q	420	26%	74%
145	8R	420	25%	75%
145	8S	420	24%	76%
145	8T	420	26%	74%
146	8U	337	12%	88%
146	8V	337	39%	61%
146	8W	337	12%	88%
146	8X	337	12%	88%
146	8Y	337	39%	61%
146	8Z	337	12%	88%
146	9A	337	12%	88%
146	9B	337	34%	66%
147	9C	329	62%	38%
147	9D	329	62%	38%
147	9E	329	10%	90%
148	9F	350	8%	92%
148	9G	350	44%	56%

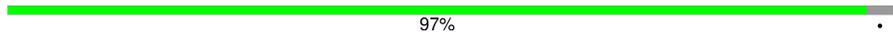
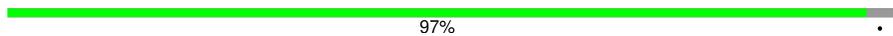
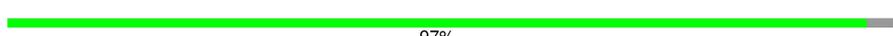
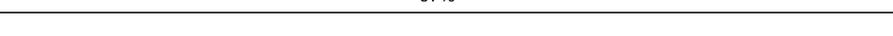
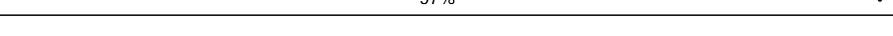
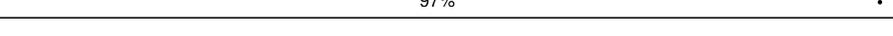
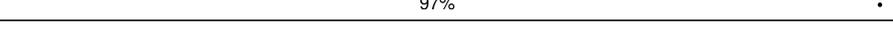
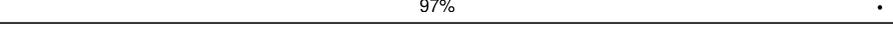
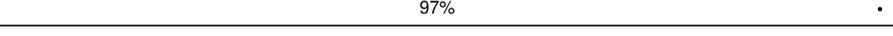
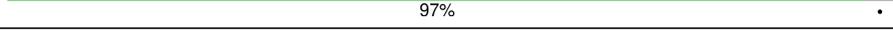
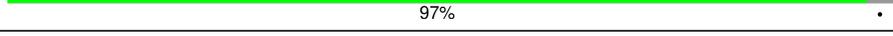
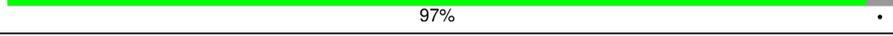
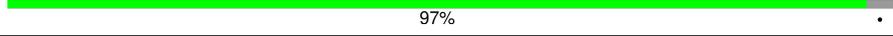
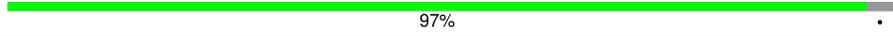
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Mol	Chain	Length	Quality of chain
148	9H	350	
148	9I	350	
149	9J	286	
149	9K	286	
149	9L	286	
150	9M	193	
150	9N	193	
150	9O	193	
150	9P	193	
150	9Q	193	
150	9R	193	
150	9S	193	
151	9T	191	
151	9U	191	
151	9V	191	
152	9W	166	
152	9X	166	
152	9Y	166	
153	AA	442	
153	AC	442	
153	AE	442	
153	AG	442	
153	AI	442	
153	AK	442	
153	AM	442	

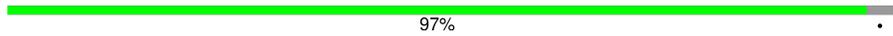
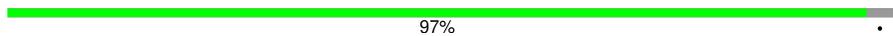
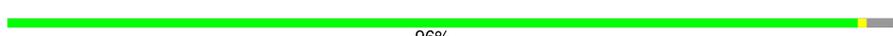
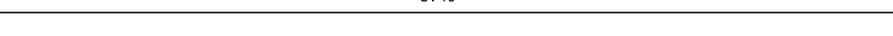
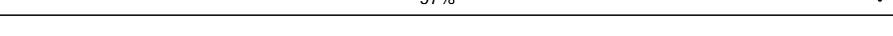
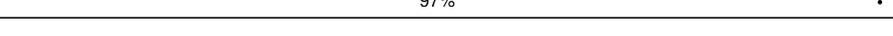
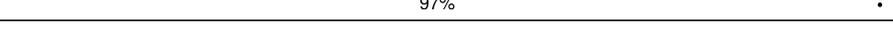
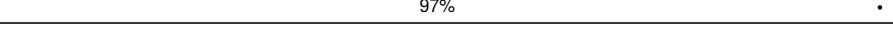
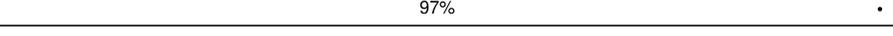
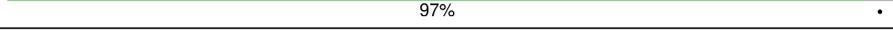
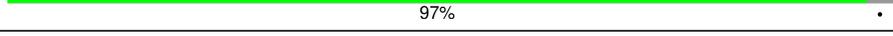
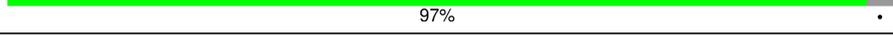
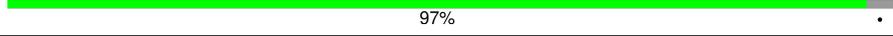
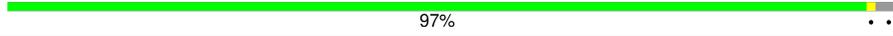
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Mol	Chain	Length	Quality of chain
153	AO	442	 97% .
153	AQ	442	 97% .
153	AS	442	 97% .
153	AU	442	 97% .
153	AW	442	 97% .
153	AY	442	 97% .
153	Aa	442	 97% .
153	Ac	442	 97% . .
153	Ae	442	 97% . .
153	Ag	442	 97% .
153	Ai	442	 97% .
153	Ak	442	 97% .
153	Am	442	 97% .
153	Ao	442	 97% . .
153	BA	442	 97% .
153	BC	442	 97% .
153	BG	442	 97% .
153	BI	442	 97% .
153	BK	442	 97% .
153	BM	442	 97% .
153	BO	442	 97% .
153	BQ	442	 97% .
153	BS	442	 97% .
153	BU	442	 97% .
153	BW	442	 97% .

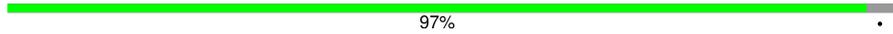
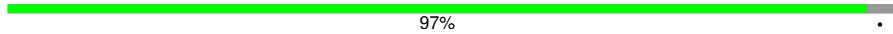
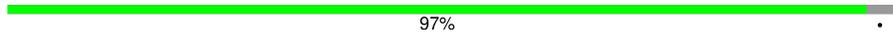
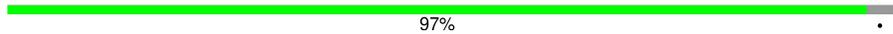
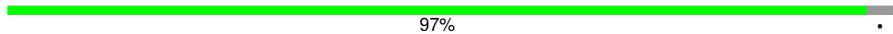
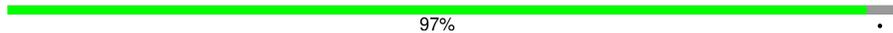
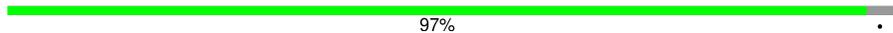
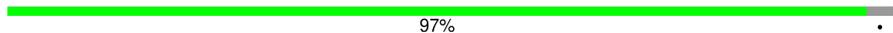
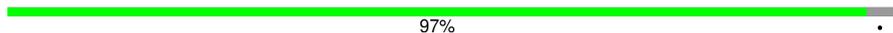
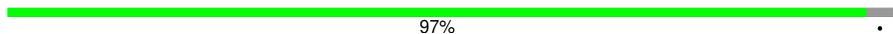
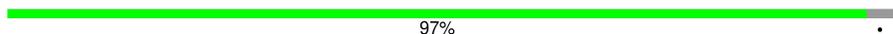
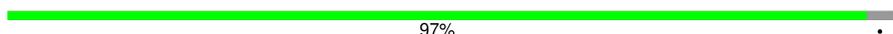
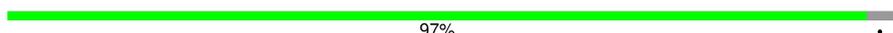
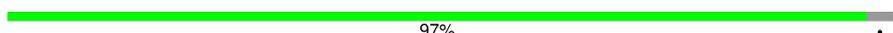
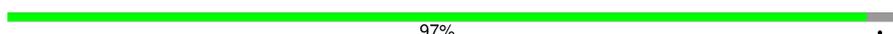
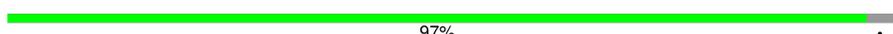
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Mol	Chain	Length	Quality of chain
153	BY	442	 97%
153	CA	442	 97%
153	CC	442	 97%
153	CE	442	 97%
153	CH	442	 97%
153	CK	442	 96%
153	CM	442	 97%
153	CO	442	 97%
153	CQ	442	 97%
153	CS	442	 97%
153	CU	442	 97%
153	CW	442	 96%
153	CY	442	 97%
153	DA	442	 97%
153	DC	442	 97%
153	DE	442	 97%
153	DG	442	 97%
153	DI	442	 97%
153	DK	442	 97%
153	DN	442	 97%
153	DP	442	 97%
153	DR	442	 97%
153	DT	442	 97%
153	DV	442	 97%
153	DX	442	 97%

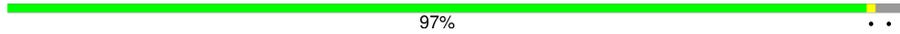
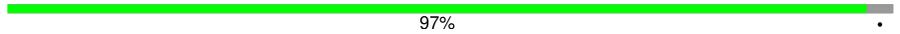
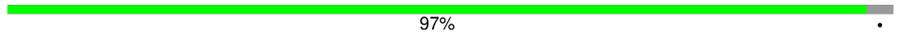
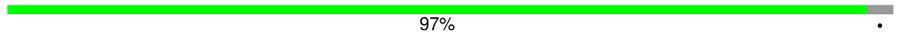
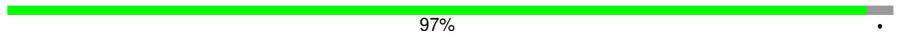
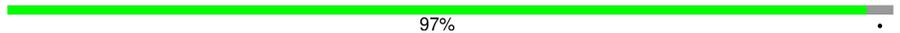
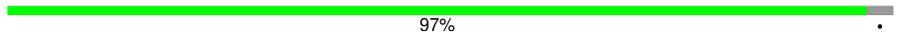
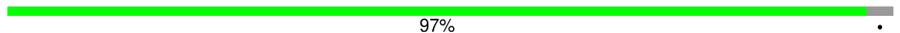
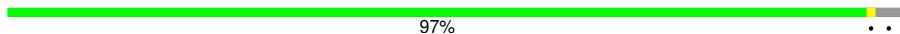
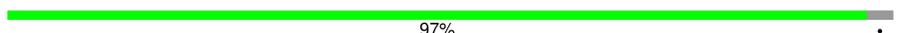
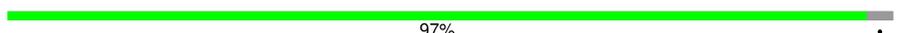
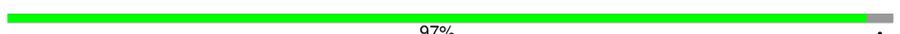
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Mol	Chain	Length	Quality of chain
153	DZ	442	 97%
153	EB	442	 97%
153	ED	442	 97%
153	EF	442	 97%
153	EH	442	 97%
153	EJ	442	 97%
153	EL	442	 97%
153	EN	442	 97%
153	ER	442	 97%
153	ET	442	 97%
153	EV	442	 97%
153	EX	442	 97%
153	EZ	442	 97%
153	FB	442	 97%
153	FD	442	 97%
153	FF	442	 97%
153	FH	442	 97%
153	FJ	442	 97%
153	FL	442	 97%
153	FN	442	 97%
153	FP	442	 97%
153	FR	442	 97%
153	FT	442	 97%
153	FV	442	 97%
153	FX	442	 96%

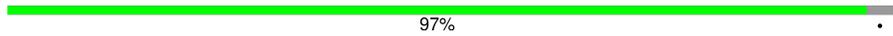
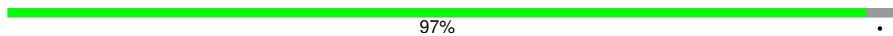
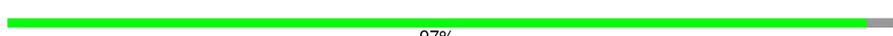
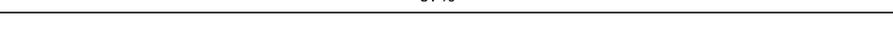
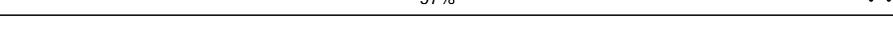
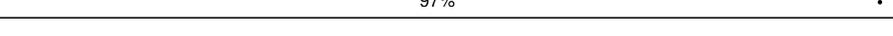
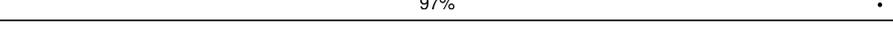
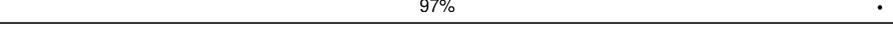
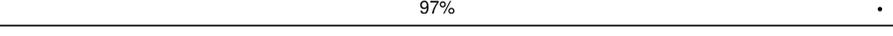
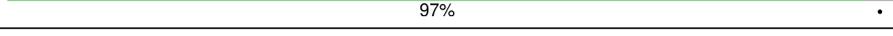
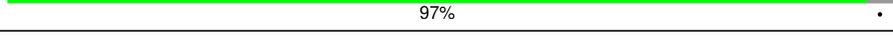
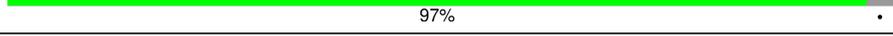
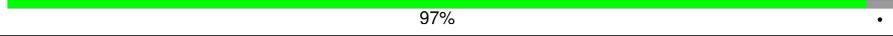
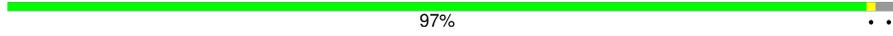
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Mol	Chain	Length	Quality of chain
153	FZ	442	 97%
153	GB	442	 97%
153	GD	442	 97%
153	GF	442	 97%
153	GH	442	 97%
153	GJ	442	 97%
153	GL	442	 97%
153	GN	442	 97%
153	GP	442	 97%
153	GR	442	 97%
153	GT	442	 97%
153	GV	442	 97%
153	GX	442	 97%
153	GZ	442	 97%
153	HB	442	 97%
153	HD	442	 97%
153	HF	442	 97%
153	HH	442	 97%
153	HJ	442	 97%
153	HL	442	 97%
153	HN	442	 97%
153	HP	442	 97%
153	HR	442	 97%
153	HT	442	 97%
153	HV	442	 97%

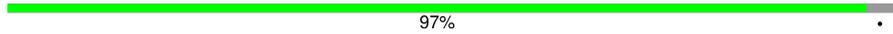
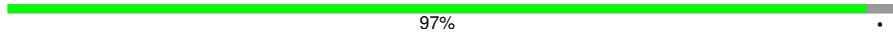
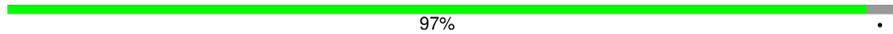
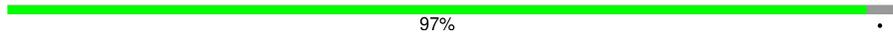
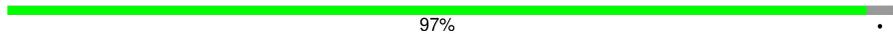
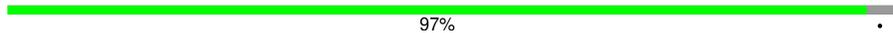
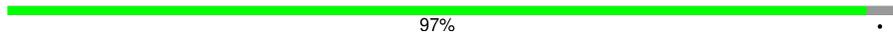
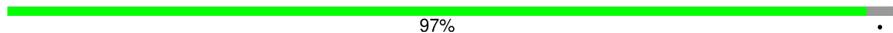
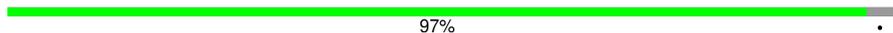
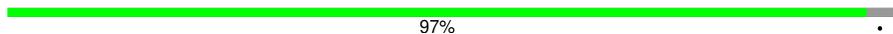
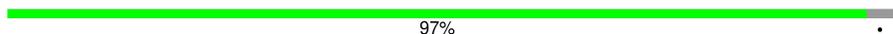
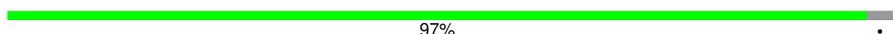
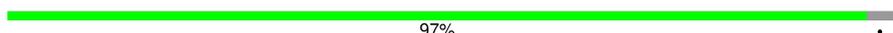
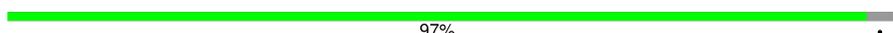
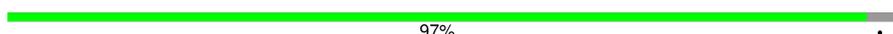
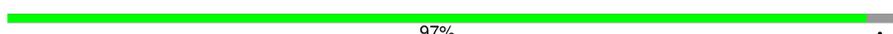
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Mol	Chain	Length	Quality of chain
153	HX	442	 97% .
153	HZ	442	 97% .
153	IB	442	 97% .
153	ID	442	 97% .
153	IF	442	 97% .
153	IH	442	 97% .
153	IJ	442	 97% .
153	IL	442	 97% ..
153	IN	442	 97% .
153	IP	442	 97% ..
153	IR	442	 97% .
153	IT	442	 97% .
153	IV	442	 97% .
153	IX	442	 97% ..
153	IZ	442	 97% ..
153	JB	442	 97% .
153	JD	442	 97% .
153	JF	442	 97% .
153	JG	442	 97% .
153	JI	442	 97% .
153	JK	442	 97% .
153	JM	442	 97% .
153	JO	442	 97% .
153	JQ	442	 97% ..
153	JS	442	 97% .

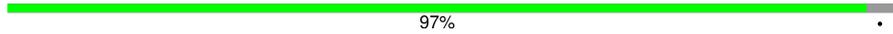
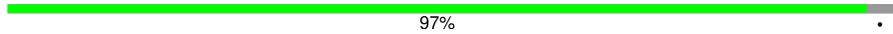
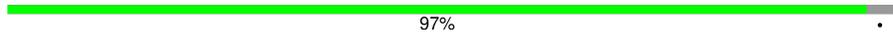
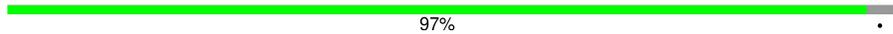
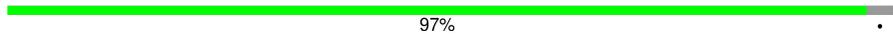
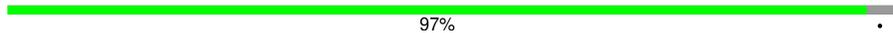
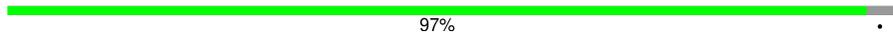
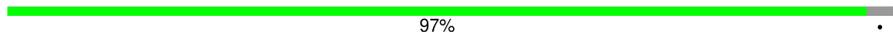
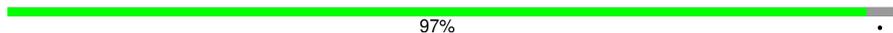
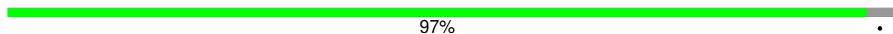
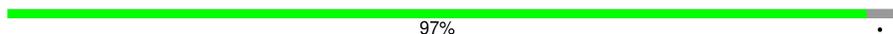
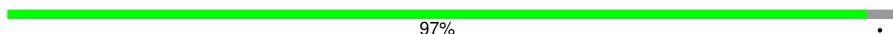
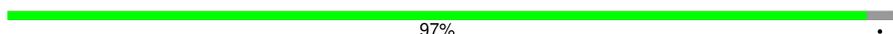
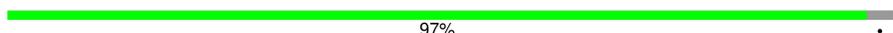
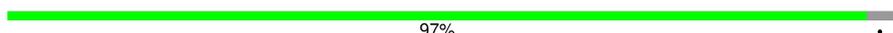
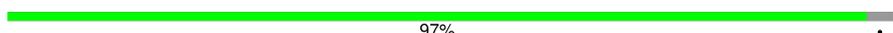
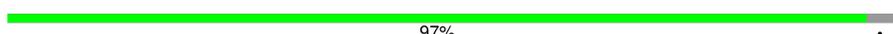
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Mol	Chain	Length	Quality of chain
153	JU	442	 97%
153	JW	442	 97%
153	JY	442	 97%
153	KA	442	 97%
153	KC	442	 97%
153	KE	442	 97%
153	KG	442	 97%
153	KI	442	 97%
153	KK	442	 97%
153	KM	442	 97%
153	KO	442	 97%
153	KQ	442	 97%
153	KS	442	 97%
153	KU	442	 97%
153	KW	442	 97%
153	KY	442	 97%
153	LA	442	 97%
153	LC	442	 97%
153	LE	442	 97%
153	LG	442	 97%
153	LI	442	 97%
153	LK	442	 97%
153	LM	442	 97%
153	LO	442	 97%
153	LQ	442	 97%

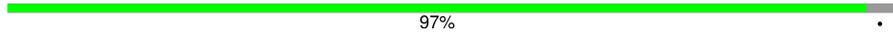
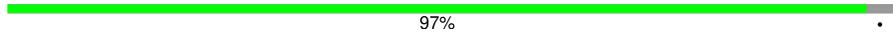
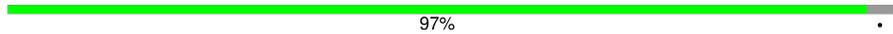
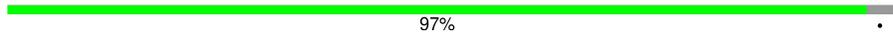
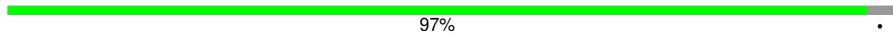
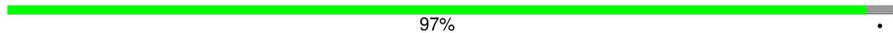
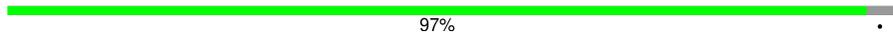
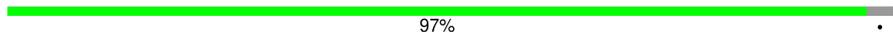
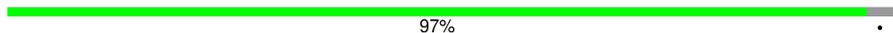
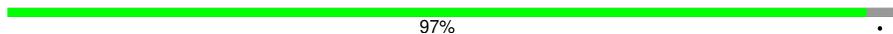
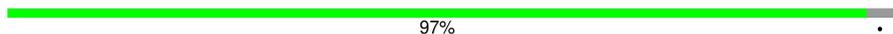
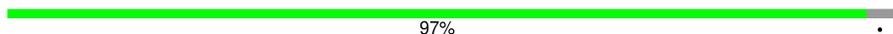
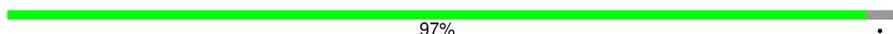
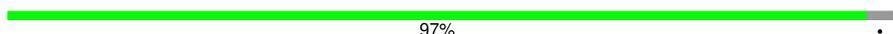
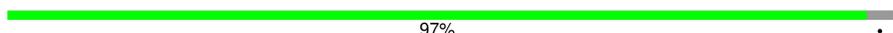
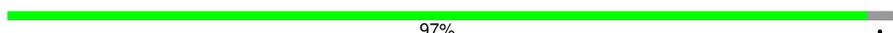
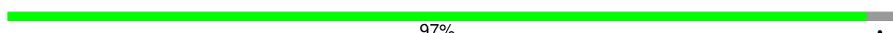
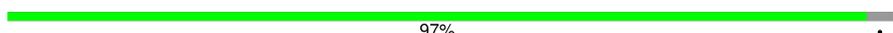
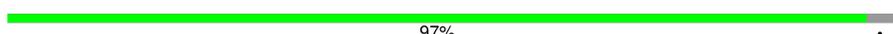
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Mol	Chain	Length	Quality of chain
153	LS	442	 97%
153	LU	442	 97%
153	LW	442	 97%
153	LY	442	 97%
153	MA	442	 97%
153	MC	442	 97%
153	ME	442	 97%
153	MG	442	 97%
153	MI	442	 97%
153	MK	442	 97%
153	MM	442	 97%
153	MO	442	 97%
153	MQ	442	 97%
153	MU	442	 97%
153	MW	442	 97%
153	MY	442	 97%
153	NA	442	 97%
153	NC	442	 97%
153	NE	442	 97%
153	NG	442	 97%
153	NI	442	 97%
153	NK	442	 97%
153	NM	442	 97%
153	NO	442	 97%
153	NQ	442	 97%

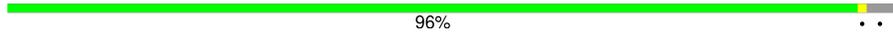
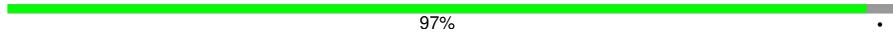
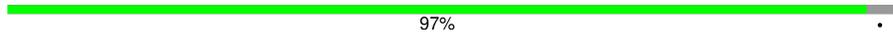
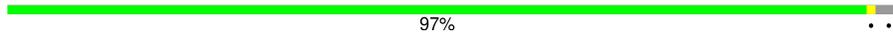
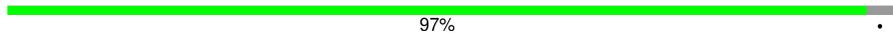
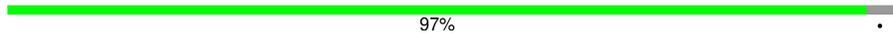
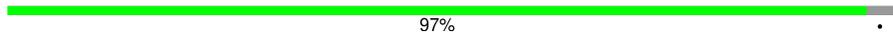
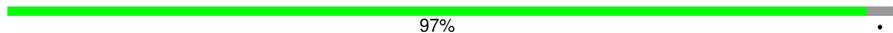
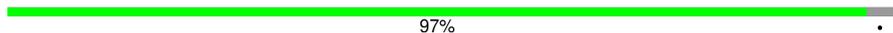
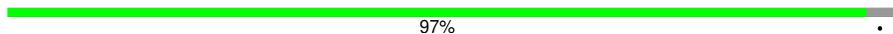
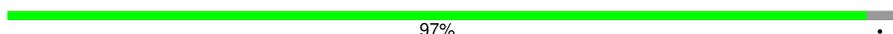
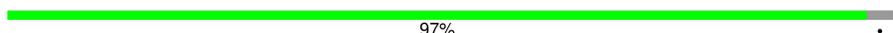
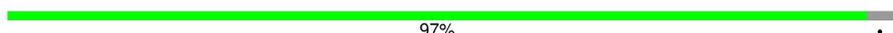
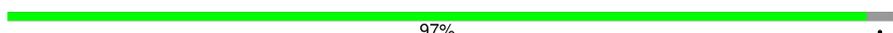
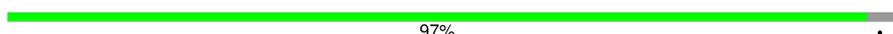
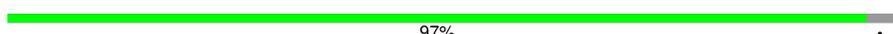
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Mol	Chain	Length	Quality of chain
153	NS	442	 97% .
153	NU	442	 97% .
153	NY	442	 97% .
153	OA	442	 97% .
153	OC	442	 97% .
153	OE	442	 97% .
153	OG	442	 97% .
153	OI	442	 97% .
153	OK	442	 97% .
153	OM	442	 97% .
153	OO	442	 97% .
153	OQ	442	 97% .
153	OS	442	 97% .
153	OU	442	 97% .
153	OW	442	 97% .
153	OY	442	 97% .
153	PA	442	 97% .
153	PD	442	 97% .
153	PF	442	 97% .
153	PH	442	 96% ..
153	PJ	442	 97% .
153	PL	442	 97% .
153	PN	442	 97% ..
153	PP	442	 97% .
153	PR	442	 97% .

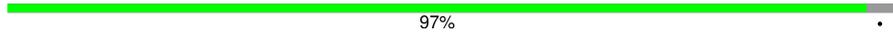
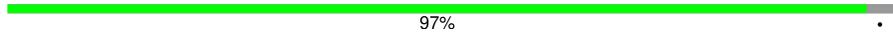
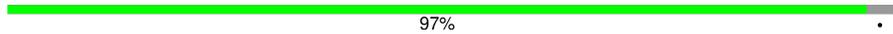
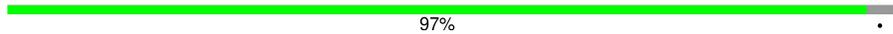
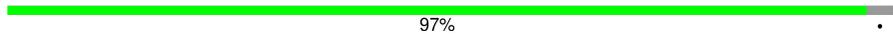
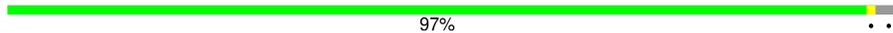
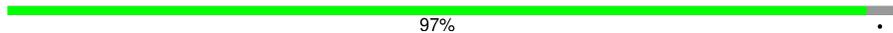
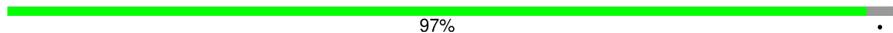
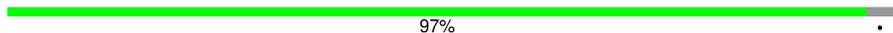
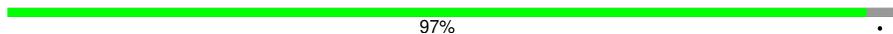
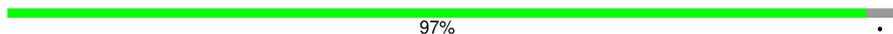
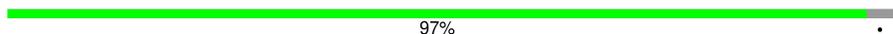
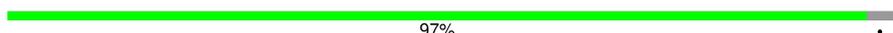
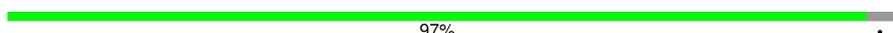
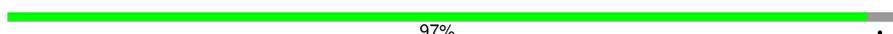
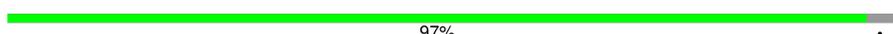
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Mol	Chain	Length	Quality of chain
153	PT	442	 96%
153	PV	442	 97%
153	PX	442	 97%
153	PZ	442	 97%
153	QB	442	 97%
153	QD	442	 97%
153	QF	442	 97%
153	QH	442	 97%
153	QJ	442	 97%
153	QL	442	 97%
153	QN	442	 97%
153	QP	442	 97%
153	QR	442	 97%
153	QT	442	 97%
153	QV	442	 97%
153	QX	442	 97%
153	QZ	442	 97%
153	RB	442	 97%
153	RD	442	 97%
153	RF	442	 97%
153	RH	442	 97%
153	RJ	442	 97%
153	RL	442	 97%
153	RN	442	 97%
153	RP	442	 97%

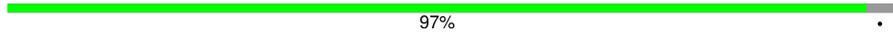
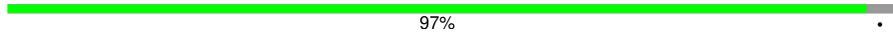
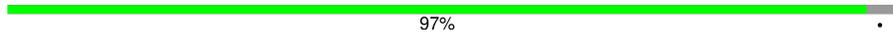
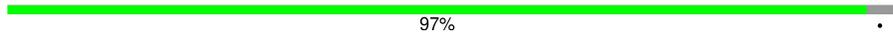
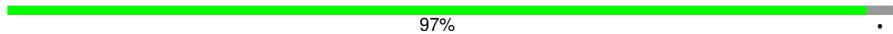
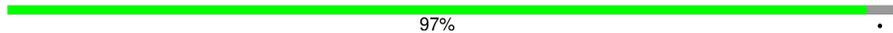
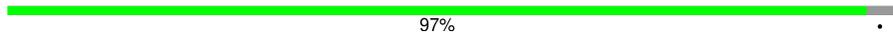
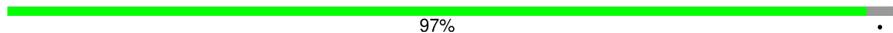
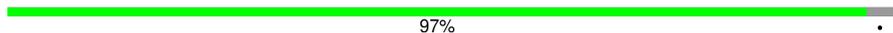
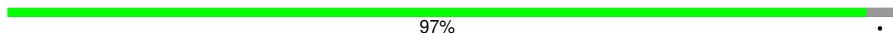
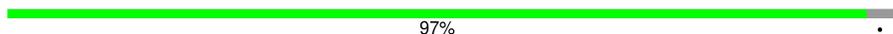
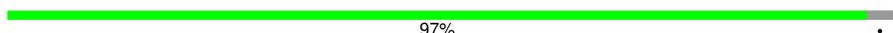
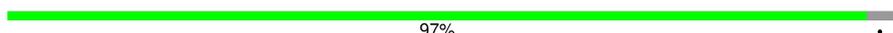
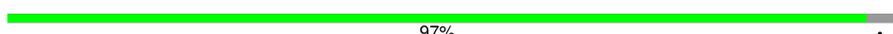
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Mol	Chain	Length	Quality of chain
153	RR	442	 97%
153	RT	442	 97%
153	RV	442	 97%
153	RX	442	 97%
153	RZ	442	 97%
153	SB	442	 97%
153	SD	442	 97%
153	SF	442	 97%
153	SH	442	 97%
153	SJ	442	 97%
153	SL	442	 97%
153	SN	442	 97%
153	SP	442	 97%
153	SR	442	 97%
153	ST	442	 97%
153	SV	442	 97%
153	SX	442	 97%
153	SZ	442	 97%
153	TB	442	 97%
153	TD	442	 97%
153	TF	442	 97%
153	TH	442	 97%
153	TJ	442	 97%
153	TL	442	 97%
153	TN	442	 97%

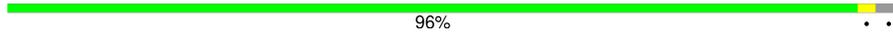
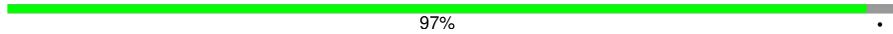
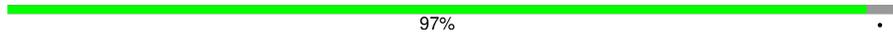
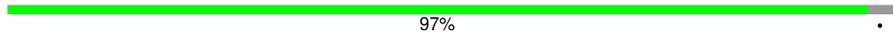
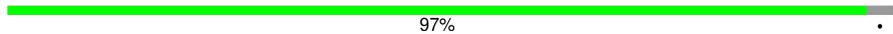
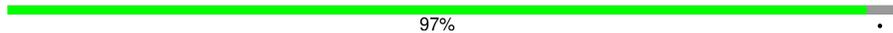
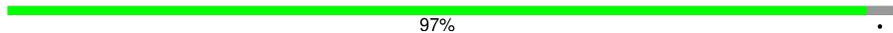
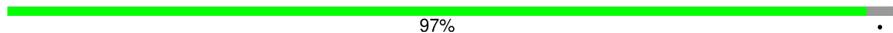
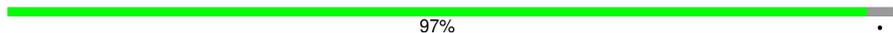
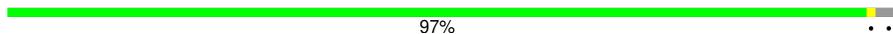
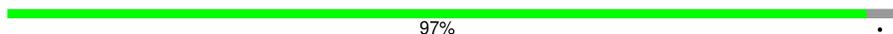
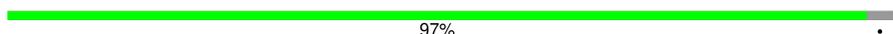
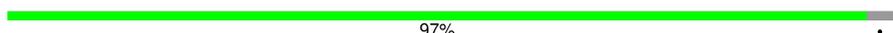
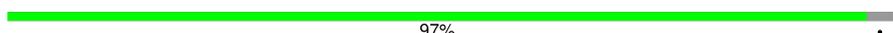
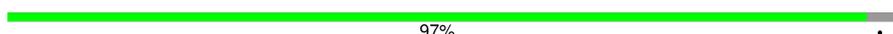
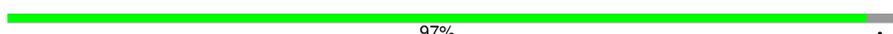
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Mol	Chain	Length	Quality of chain
153	TP	442	 97% .
153	TS	442	 97% .
153	TU	442	 97% .
153	TW	442	 97% .
153	TY	442	 97% .
153	UA	442	 97% .
153	UC	442	 97% .
153	UE	442	 97% .
153	UG	442	 97% .
153	UI	442	 97% .
153	UK	442	 97% .
153	UM	442	 97% .
153	UO	442	 97% .
153	UQ	442	 97% .
153	US	442	 97% .
153	UU	442	 97% .
153	UX	442	 97% .
153	UZ	442	 97% .
153	VB	442	 97% .
153	VD	442	 96% ..
153	VF	442	 97% .
153	VH	442	 97% .
153	VJ	442	 97% .
153	VL	442	 97% .
153	VN	442	 97% .

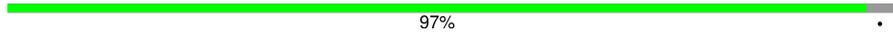
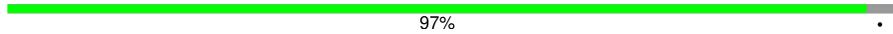
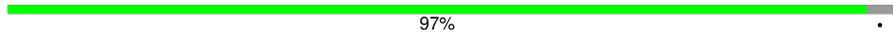
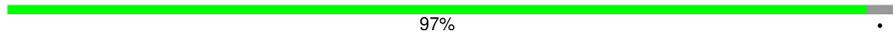
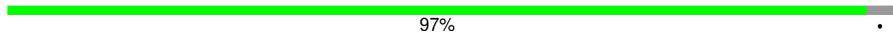
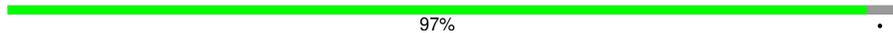
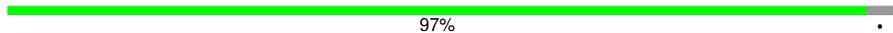
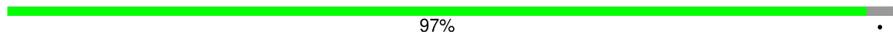
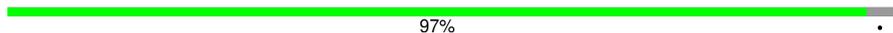
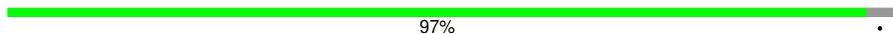
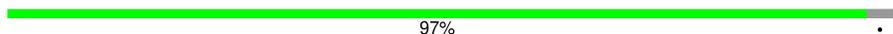
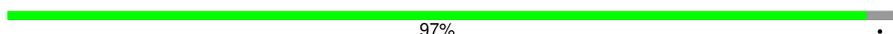
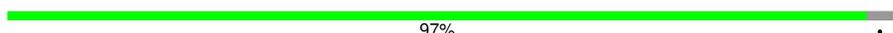
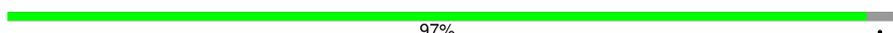
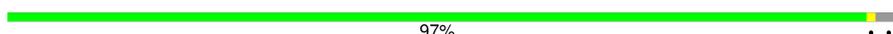
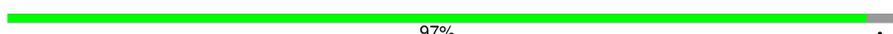
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Mol	Chain	Length	Quality of chain
153	VP	442	 96%
153	VR	442	 97%
153	VT	442	 97%
153	VV	442	 97%
153	VX	442	 97%
153	VZ	442	 97%
153	WB	442	 97%
153	WD	442	 97%
153	WF	442	 97%
153	WH	442	 97%
153	WJ	442	 97%
153	WL	442	 97%
153	WN	442	 97%
153	WP	442	 97%
153	WR	442	 97%
153	WT	442	 97%
153	WV	442	 97%
153	WX	442	 97%
153	WZ	442	 97%
153	XB	442	 97%
153	XD	442	 97%
153	XF	442	 97%
153	XH	442	 97%
153	XJ	442	 97%
153	XL	442	 97%

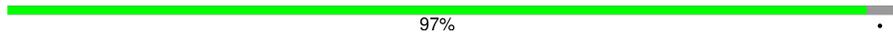
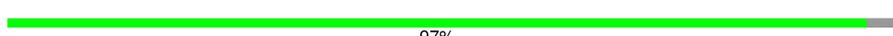
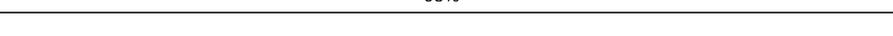
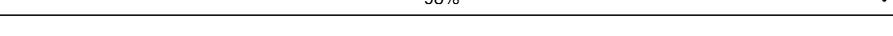
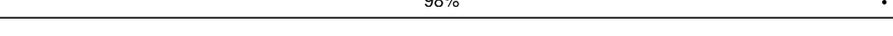
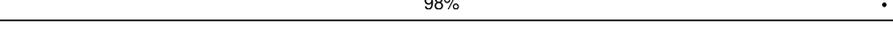
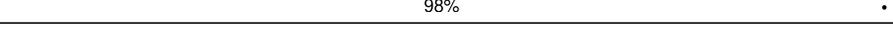
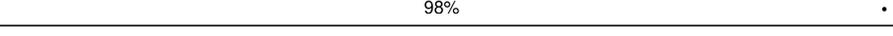
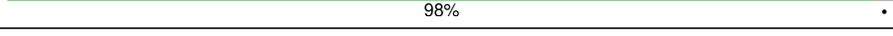
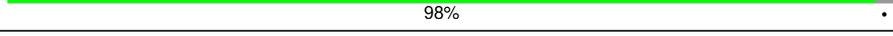
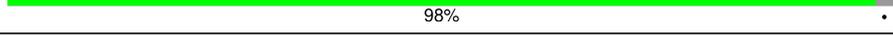
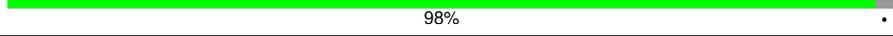
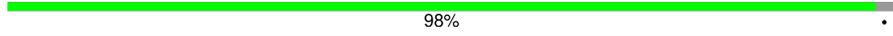
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Mol	Chain	Length	Quality of chain
153	XN	442	 97% .
153	XP	442	 97% .
153	XR	442	 97% .
153	XT	442	 97% .
153	XV	442	 97% .
153	XX	442	 97% .
153	XZ	442	 97% .
153	YB	442	 97% .
153	YD	442	 97% .
153	YF	442	 97% .
153	YH	442	 97% .
153	YK	442	 97% .
153	YM	442	 97% ..
153	YO	442	 97% .
153	YQ	442	 97% .
153	YS	442	 97% .
153	YU	442	 97% .
153	YW	442	 97% .
153	YY	442	 97% .
153	ZA	442	 97% ..
153	ZC	442	 97% .
153	ZE	442	 97% .
153	ZG	442	 97% .
153	ZI	442	 97% .
153	ZK	442	 97% .

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Mol	Chain	Length	Quality of chain
153	ZM	442	 97%
153	ZO	442	 97%
153	ZQ	442	 97%
153	ZS	442	 97%
153	ZU	442	 97%
153	ZW	442	 97%
153	ZY	442	 97%
154	AB	451	 98%
154	AD	451	 98%
154	AF	451	 98%
154	AH	451	 98%
154	AJ	451	 98%
154	AL	451	 98%
154	AN	451	 98%
154	AP	451	 98%
154	AR	451	 98%
154	AT	451	 98%
154	AV	451	 98%
154	AX	451	 98%
154	AZ	451	 98%
154	Ab	451	 98%
154	Ad	451	 98%
154	Af	451	 98%
154	Ah	451	 98%
154	Aj	451	 98%

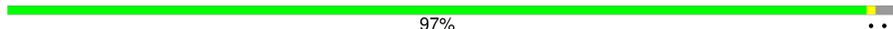
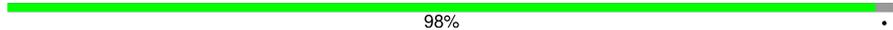
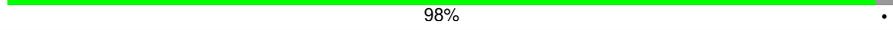
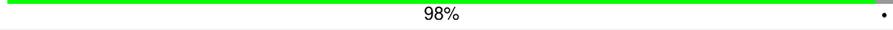
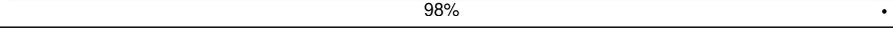
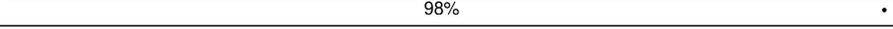
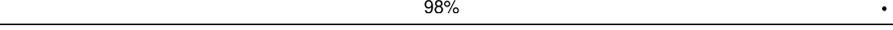
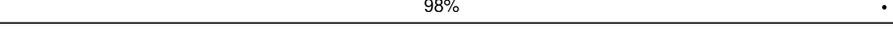
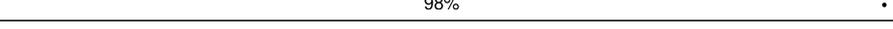
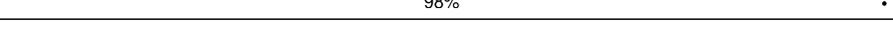
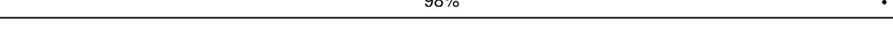
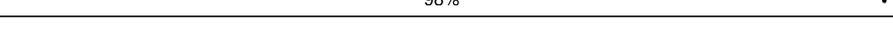
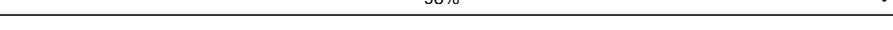
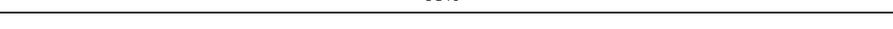
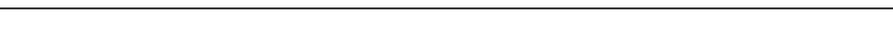
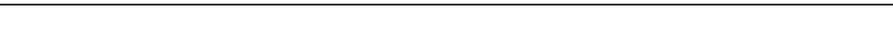
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Mol	Chain	Length	Quality of chain
154	Al	451	98%
154	An	451	98%
154	Ap	451	98%
154	BB	451	98%
154	BD	451	98%
154	BF	451	98%
154	BH	451	98%
154	BJ	451	98%
154	BL	451	98%
154	BN	451	98%
154	BP	451	98%
154	BR	451	98%
154	BT	451	98%
154	BV	451	98%
154	BX	451	98%
154	BZ	451	98%
154	CB	451	98%
154	CD	451	98%
154	CF	451	98%
154	CI	451	98%
154	CJ	451	98%
154	CL	451	98%
154	CN	451	98%
154	CP	451	98%
154	CR	451	98%

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Mol	Chain	Length	Quality of chain
154	CT	451	 97%
154	CV	451	 98%
154	CX	451	 98%
154	CZ	451	 98%
154	DB	451	 98%
154	DD	451	 98%
154	DF	451	 98%
154	DH	451	 98%
154	DJ	451	 98%
154	DL	451	 98%
154	DM	451	 98%
154	DO	451	 98%
154	DQ	451	 98%
154	DS	451	 98%
154	DU	451	 98%
154	DW	451	 98%
154	DY	451	 98%
154	EA	451	 98%
154	EC	451	 98%
154	EE	451	 98%
154	EG	451	 98%
154	EI	451	 98%
154	EK	451	 98%
154	EM	451	 98%
154	EO	451	 98%

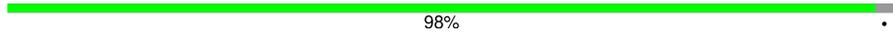
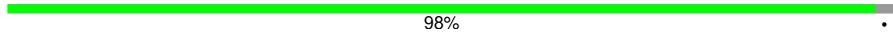
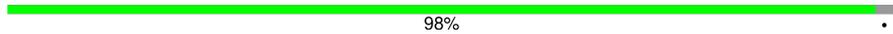
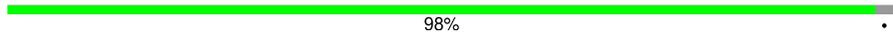
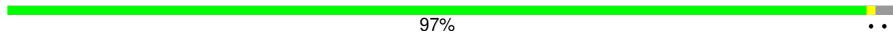
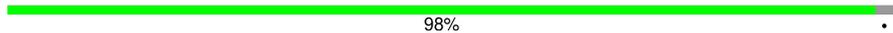
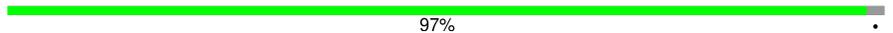
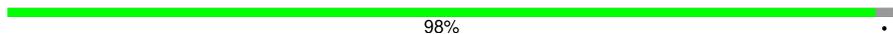
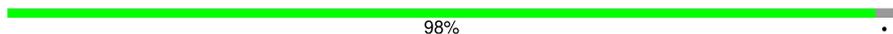
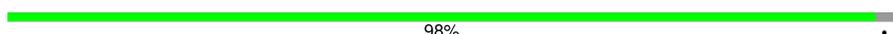
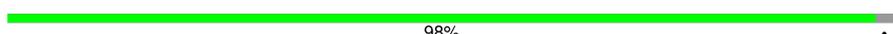
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Mol	Chain	Length	Quality of chain
154	EQ	451	98%
154	ES	451	98%
154	EU	451	98%
154	EW	451	98%
154	EY	451	98%
154	FA	451	98%
154	FC	451	98%
154	FE	451	98%
154	FG	451	98%
154	FI	451	97%
154	FK	451	98%
154	FM	451	98%
154	FO	451	98%
154	FQ	451	98%
154	FS	451	98%
154	FW	451	98%
154	FY	451	98%
154	GA	451	98%
154	GC	451	98%
154	GE	451	98%
154	GG	451	98%
154	GI	451	98%
154	GK	451	98%
154	GM	451	98%
154	GO	451	98%

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Mol	Chain	Length	Quality of chain
154	GQ	451	 98%
154	GS	451	 98%
154	GU	451	 98%
154	GW	451	 98%
154	HA	451	 97%
154	HC	451	 98%
154	HE	451	 97%
154	HG	451	 98%
154	HI	451	 98%
154	HK	451	 98%
154	HM	451	 98%
154	HO	451	 98%
154	HQ	451	 98%
154	HS	451	 98%
154	HU	451	 98%
154	HW	451	 98%
154	HY	451	 98%
154	IA	451	 98%
154	IE	451	 98%
154	IG	451	 98%
154	II	451	 97%
154	IK	451	 98%
154	IM	451	 98%
154	IO	451	 97%
154	IQ	451	 98%

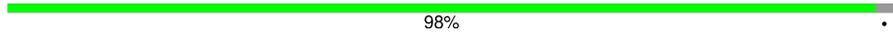
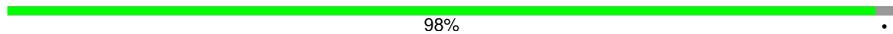
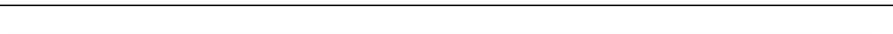
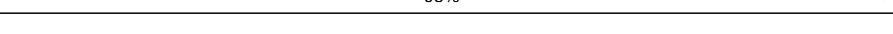
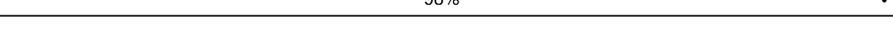
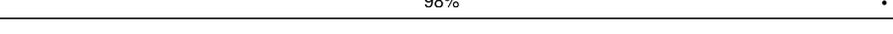
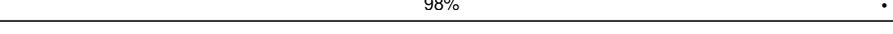
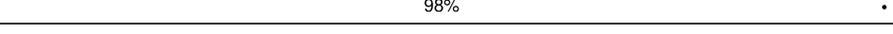
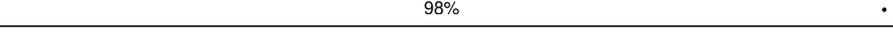
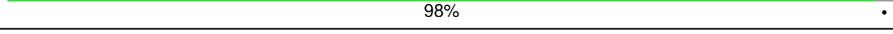
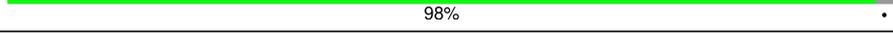
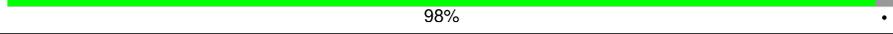
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Mol	Chain	Length	Quality of chain
154	IS	451	98%
154	IU	451	97%
154	IW	451	98%
154	IY	451	98%
154	JA	451	97%
154	JC	451	98%
154	JE	451	98%
154	JH	451	98%
154	JJ	451	98%
154	JL	451	98%
154	JN	451	98%
154	JP	451	98%
154	JR	451	98%
154	JT	451	98%
154	JV	451	98%
154	JX	451	98%
154	JZ	451	98%
154	KB	451	98%
154	KD	451	97%
154	KF	451	98%
154	KH	451	98%
154	KJ	451	98%
154	KL	451	98%
154	KN	451	98%
154	KP	451	98%

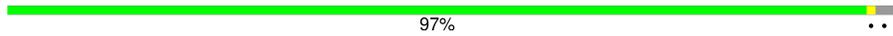
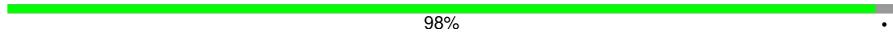
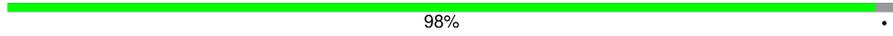
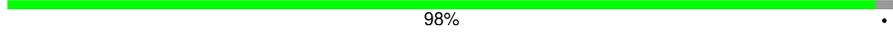
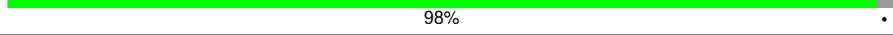
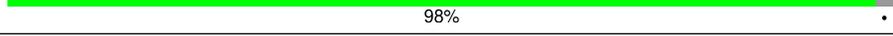
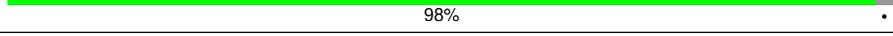
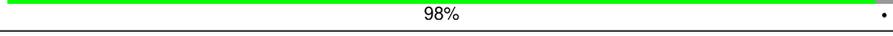
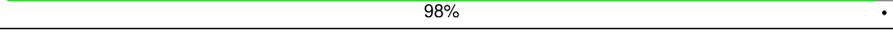
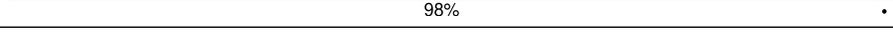
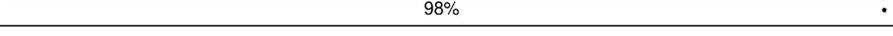
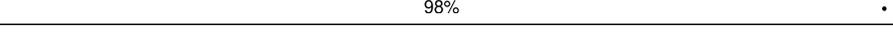
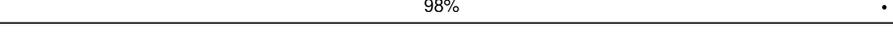
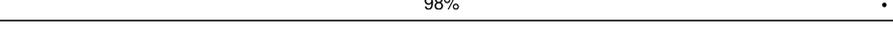
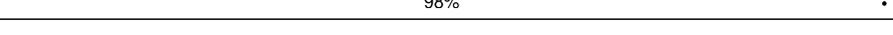
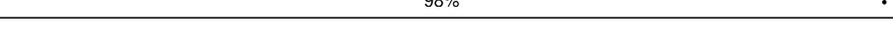
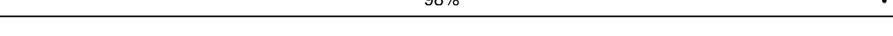
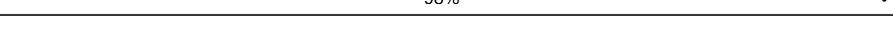
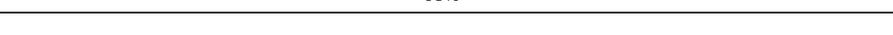
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Mol	Chain	Length	Quality of chain
154	KR	451	 98%
154	KT	451	 98%
154	KV	451	 98%
154	KX	451	 98%
154	KZ	451	 98%
154	LB	451	 98%
154	LD	451	 98%
154	LF	451	 98%
154	LH	451	 98%
154	LJ	451	 98%
154	LL	451	 98%
154	LN	451	 98%
154	LP	451	 98%
154	LR	451	 97%
154	LT	451	 98%
154	LV	451	 98%
154	LX	451	 98%
154	LZ	451	 98%
154	MB	451	 98%
154	MD	451	 98%
154	MF	451	 98%
154	MH	451	 98%
154	MJ	451	 98%
154	ML	451	 98%
154	MN	451	 98%

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Mol	Chain	Length	Quality of chain
154	MP	451	 97%
154	MR	451	 98%
154	MT	451	 98%
154	MV	451	 98%
154	MX	451	 98%
154	MZ	451	 98%
154	NB	451	 98%
154	ND	451	 98%
154	NF	451	 98%
154	NH	451	 98%
154	NJ	451	 98%
154	NL	451	 98%
154	NN	451	 98%
154	NP	451	 98%
154	NR	451	 98%
154	NT	451	 98%
154	NV	451	 98%
154	NX	451	 98%
154	NZ	451	 98%
154	OB	451	 98%
154	OD	451	 98%
154	OF	451	 98%
154	OH	451	 98%
154	OJ	451	 98%
154	OL	451	 98%

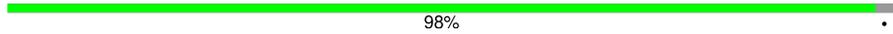
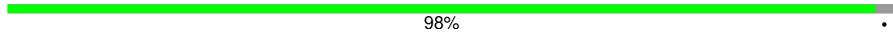
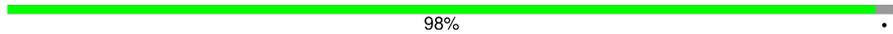
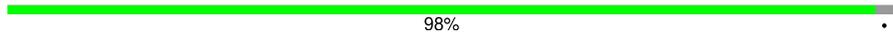
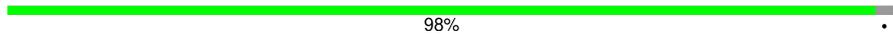
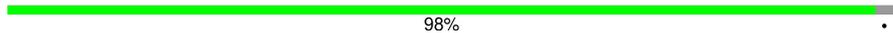
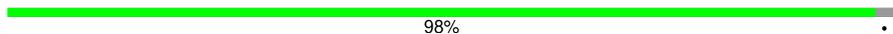
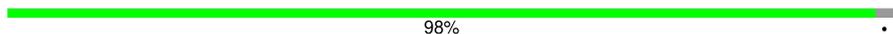
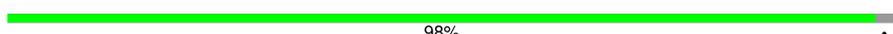
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Mol	Chain	Length	Quality of chain
154	ON	451	98%
154	OP	451	98%
154	OR	451	98%
154	OT	451	98%
154	OV	451	98%
154	OX	451	98%
154	OZ	451	98%
154	PC	451	98%
154	PE	451	98%
154	PG	451	98%
154	PI	451	97%
154	PK	451	98%
154	PM	451	98%
154	PO	451	98%
154	PQ	451	98%
154	PS	451	98%
154	PU	451	98%
154	PW	451	98%
154	PY	451	98%
154	QA	451	98%
154	QC	451	98%
154	QE	451	98%
154	QG	451	98%
154	QI	451	98%
154	QK	451	98%

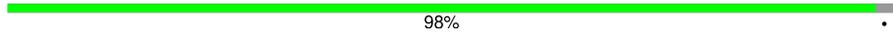
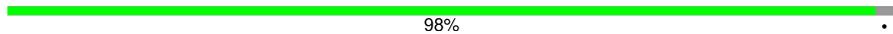
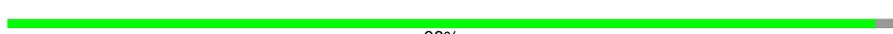
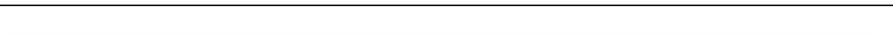
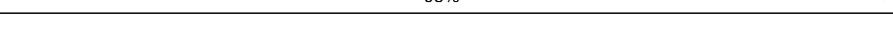
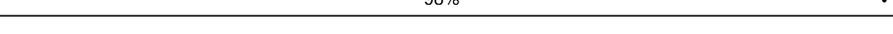
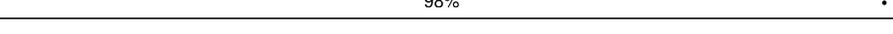
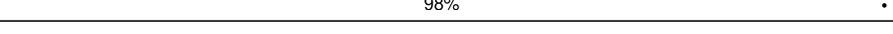
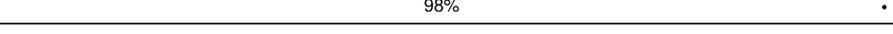
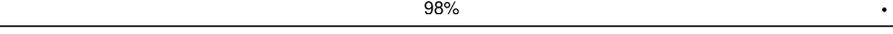
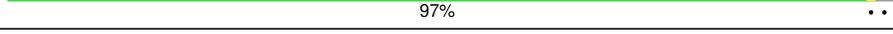
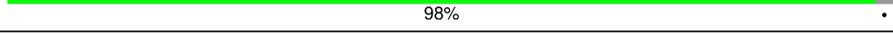
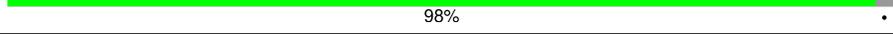
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Mol	Chain	Length	Quality of chain
154	QM	451	 98%
154	QO	451	 98%
154	QQ	451	 98%
154	QS	451	 98%
154	QU	451	 98%
154	QW	451	 98%
154	QY	451	 98%
154	RA	451	 98%
154	RC	451	 98%
154	RE	451	 98%
154	RG	451	 98%
154	RI	451	 98%
154	RK	451	 98%
154	RM	451	 98%
154	RO	451	 98%
154	RQ	451	 98%
154	RS	451	 98%
154	RU	451	 98%
154	RW	451	 98%
154	RY	451	 98%
154	SA	451	 98%
154	SC	451	 98%
154	SE	451	 98%
154	SG	451	 98%
154	SI	451	 98%

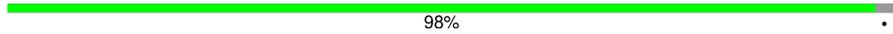
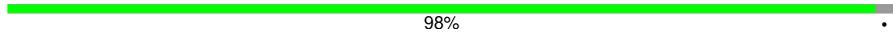
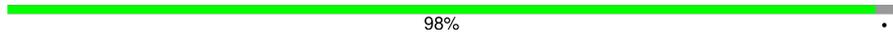
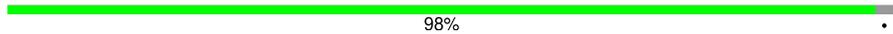
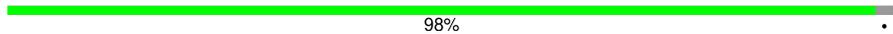
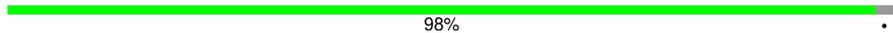
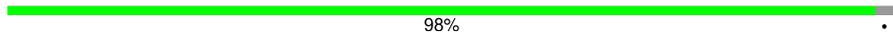
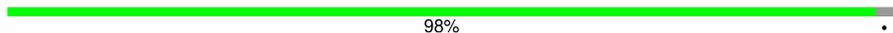
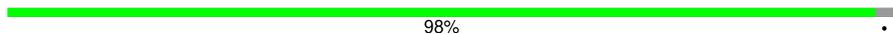
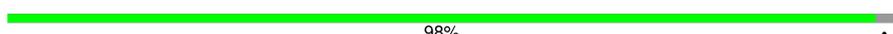
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Mol	Chain	Length	Quality of chain
154	SK	451	 98%
154	SM	451	 98%
154	SO	451	 98%
154	SQ	451	 98%
154	SS	451	 97%
154	SU	451	 97%
154	SW	451	 98%
154	SY	451	 98%
154	TA	451	 98%
154	TC	451	 98%
154	TE	451	 98%
154	TG	451	 97%
154	TI	451	 98%
154	TK	451	 98%
154	TM	451	 98%
154	TO	451	 98%
154	TQ	451	 98%
154	TR	451	 98%
154	TT	451	 98%
154	TV	451	 98%
154	TX	451	 97%
154	TZ	451	 98%
154	UB	451	 98%
154	UD	451	 98%
154	UF	451	 98%

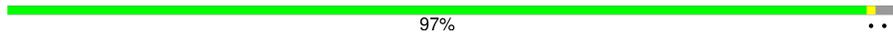
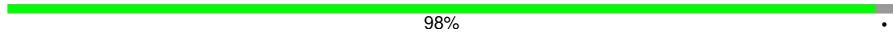
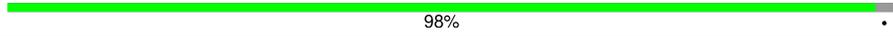
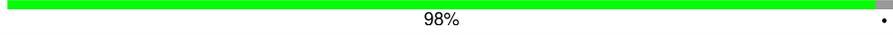
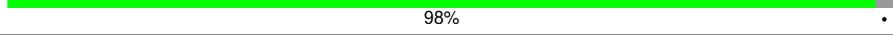
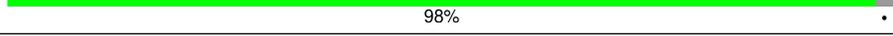
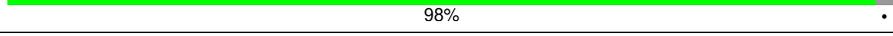
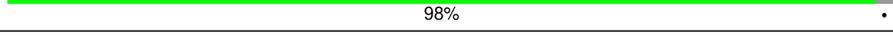
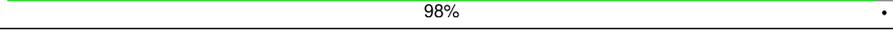
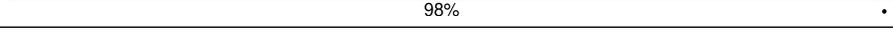
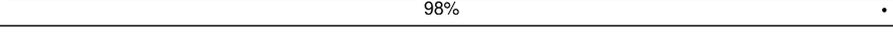
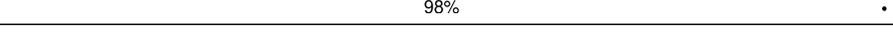
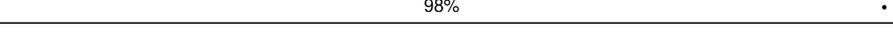
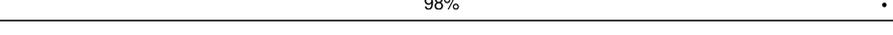
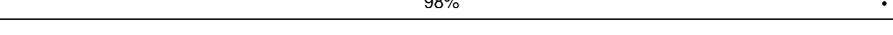
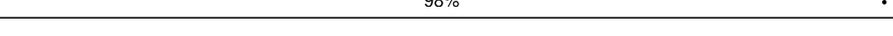
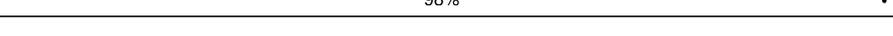
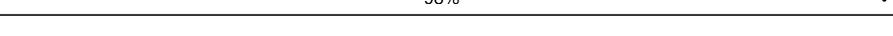
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Mol	Chain	Length	Quality of chain
154	UH	451	 98%
154	UJ	451	 98%
154	UL	451	 98%
154	UN	451	 98%
154	UP	451	 98%
154	UR	451	 98%
154	UT	451	 98%
154	UW	451	 98%
154	UY	451	 98%
154	VA	451	 98%
154	VC	451	 97%
154	VE	451	 98%
154	VG	451	 98%
154	VI	451	 98%
154	VK	451	 98%
154	VM	451	 98%
154	VO	451	 98%
154	VQ	451	 98%
154	VS	451	 98%
154	VU	451	 98%
154	VW	451	 98%
154	VY	451	 98%
154	WA	451	 98%
154	WC	451	 98%
154	WE	451	 98%

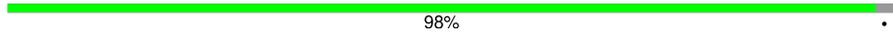
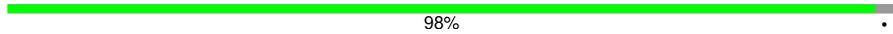
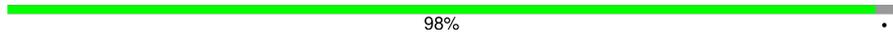
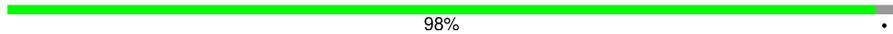
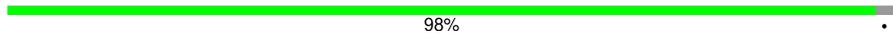
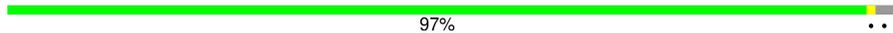
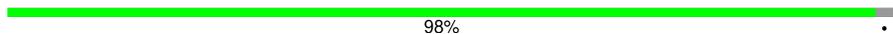
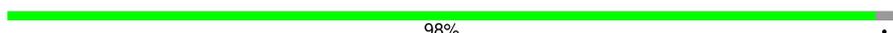
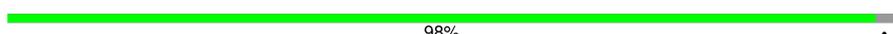
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Mol	Chain	Length	Quality of chain
154	WG	451	 97%
154	WI	451	 98%
154	WK	451	 98%
154	WM	451	 98%
154	WO	451	 98%
154	WQ	451	 98%
154	WS	451	 98%
154	WU	451	 98%
154	WW	451	 98%
154	WY	451	 98%
154	XA	451	 98%
154	XC	451	 98%
154	XE	451	 98%
154	XG	451	 98%
154	XI	451	 98%
154	XK	451	 98%
154	XM	451	 98%
154	XO	451	 98%
154	XQ	451	 98%
154	XS	451	 98%
154	XU	451	 98%
154	XW	451	 98%
154	XY	451	 98%
154	YA	451	 98%
154	YC	451	 98%

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Mol	Chain	Length	Quality of chain
154	YE	451	 98%
154	YG	451	 98%
154	YJ	451	 98%
154	YL	451	 98%
154	YN	451	 98%
154	YP	451	 97%
154	YR	451	 98%
154	YT	451	 98%
154	YV	451	 98%
154	YX	451	 98%
154	YZ	451	 98%
154	ZB	451	 98%
154	ZD	451	 98%
154	ZF	451	 98%
154	ZH	451	 98%
154	ZJ	451	 98%
154	ZL	451	 98%
154	ZN	451	 98%
154	ZP	451	 98%
154	ZR	451	 98%
154	ZT	451	 98%
154	ZV	451	 98%
154	ZX	451	 98%
154	ZZ	451	 98%

2 Entry composition [i](#)

There are 160 unique types of molecules in this entry. The entry contains 3895227 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 EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	0A	662	5390	3423	929	1014	24	0	0
1	0B	734	5972	3782	1036	1125	29	0	0
1	0C	730	5933	3757	1026	1121	29	0	0
1	0D	662	5390	3423	929	1014	24	0	0
1	0E	734	5972	3782	1036	1125	29	0	0
1	0F	730	5933	3757	1026	1121	29	0	0

- Molecule 2 is a protein called EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	0G	730	5862	3718	1025	1088	31	0	0
2	0H	730	5862	3718	1025	1088	31	0	0
2	0I	730	5862	3718	1025	1088	31	0	0

- Molecule 3 is a protein called Rib72 protein-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	0J	665	5389	3412	938	1011	28	0	0
3	0K	665	5389	3412	938	1011	28	0	0
3	0L	665	5389	3412	938	1011	28	0	0

- Molecule 4 is a protein called CMF34/CARP4.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	0M	758	Total	C	N	O	S	0	0
			6157	3875	1093	1162	27		
4	0N	758	Total	C	N	O	S	0	0
			6157	3875	1093	1162	27		

- Molecule 5 is a protein called Flagellar protofilament ribbon protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	0O	193	Total	C	N	O	S	0	0
			1673	1019	327	319	8		
5	0P	363	Total	C	N	O	S	0	0
			3131	1907	616	594	14		
5	0Q	361	Total	C	N	O	S	0	0
			3116	1899	614	591	12		
5	0R	236	Total	C	N	O	S	0	0
			2036	1237	405	386	8		
5	0S	347	Total	C	N	O	S	0	0
			3014	1834	597	569	14		
5	0T	309	Total	C	N	O	S	0	0
			2687	1635	529	513	10		

- Molecule 6 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	0U	32	Total	C	N	O		0	0
			277	174	55	48			
6	0V	456	Total	C	N	O	S	0	0
			3874	2350	786	723	15		
6	0W	456	Total	C	N	O	S	0	0
			3874	2350	786	723	15		
6	0X	290	Total	C	N	O	S	0	0
			2454	1478	500	465	11		

- Molecule 7 is a protein called Meiosis-specific nuclear structural protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	0Y	153	Total	C	N	O	S	0	0
			1299	795	251	251	2		
7	0Z	423	Total	C	N	O	S	0	0
			3586	2179	705	693	9		
7	1A	423	Total	C	N	O	S	0	0
			3586	2179	705	693	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	1B	126	Total	C	N	O	S	0	0
			1052	636	209	201	6		

- Molecule 8 is a protein called KIAA1430 homologue.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	0a	96	Total	C	N	O	S	0	0
			828	505	167	152	4		
8	0b	134	Total	C	N	O	S	0	0
			1155	706	234	210	5		
8	0c	134	Total	C	N	O	S	0	0
			1155	706	234	210	5		
8	0d	134	Total	C	N	O	S	0	0
			1155	706	234	210	5		
8	0e	134	Total	C	N	O	S	0	0
			1155	706	234	210	5		
8	0f	38	Total	C	N	O	S	0	0
			327	201	67	58	1		

- Molecule 9 is a protein called Starmaker.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	0g	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0h	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0i	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0j	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0k	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0l	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0m	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0n	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0o	72	Total	C	N	O	S	0	0
			643	395	130	116	2		
9	0p	72	Total	C	N	O	S	0	0
			643	395	130	116	2		

- Molecule 10 is a protein called LIM zinc-binding domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	0q	97	731	450	131	142	8	0	0

- Molecule 11 is a protein called Sperm-tail PG-rich repeat.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	0r	77	613	391	114	106	2	0	0
11	0s	207	1606	1018	292	293	3	0	0

- Molecule 12 is a protein called MOP84A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	0t	470	3548	2199	631	697	21	0	0

- Molecule 13 is a protein called Leucine-rich repeat protein (LRRP).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	0u	483	3730	2318	679	710	23	0	0

- Molecule 14 is a protein called Coiled-coil domain-containing protein 39.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	0v	419	3443	2081	674	677	11	0	0
14	0w	487	3966	2414	768	766	18	0	0

- Molecule 15 is a protein called Coiled-coil domain-containing protein 40.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	0x	421	3425	2107	614	691	13	0	0
15	0y	459	3706	2277	671	738	20	0	0

- Molecule 16 is a protein called Cilia- and flagella-associated protein 299.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	0z	223	Total	C	N	O	S	0	0
			1848	1170	325	351	2		

- Molecule 17 is a protein called Nucleoside diphosphate kinase, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	1C	332	Total	C	N	O	S	0	0
			2587	1637	446	484	20		
17	1D	332	Total	C	N	O	S	0	0
			2587	1637	446	484	20		
17	1G	332	Total	C	N	O	S	0	0
			2587	1637	446	484	20		

- Molecule 18 is a protein called Nucleoside diphosphate kinase, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	1E	343	Total	C	N	O	S	0	0
			2685	1703	472	493	17		
18	1F	343	Total	C	N	O	S	0	0
			2685	1703	472	493	17		

- Molecule 19 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	1H	419	Total	C	N	O	S	0	0
			3331	2094	584	638	15		
19	1I	419	Total	C	N	O	S	0	0
			3331	2094	584	638	15		

- Molecule 20 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	1J	414	Total	C	N	O	S	0	0
			3295	2050	603	624	18		
20	1K	414	Total	C	N	O	S	0	0
			3295	2050	603	624	18		

- Molecule 21 is a protein called Cyclic nucleotide-binding domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	1L	306	Total	C	N	O	S	0	0
			2446	1557	422	454	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	1M	306	2446	1557	422	454	13	0	0

- Molecule 22 is a protein called TbMIP23.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
22	1N	170	1262	795	219	241	7	0	0
22	1O	170	1262	795	219	241	7	0	0

- Molecule 23 is a protein called FAP141.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
23	1P	105	837	503	167	162	5	0	0
23	1Q	105	837	503	167	162	5	0	0

- Molecule 24 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
24	1R	181	1457	935	250	267	5	0	0
24	1S	181	1457	935	250	267	5	0	0

- Molecule 25 is a protein called Calpain-like cysteine peptidase, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
25	1T	269	2100	1327	366	392	15	0	0
25	1U	269	2100	1327	366	392	15	0	0
25	1V	269	2100	1327	366	392	15	0	0

- Molecule 26 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	1W	472	3717	2352	651	692	22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	1X	472	3717	2352	651	692	22	0	0

- Molecule 27 is a protein called Calcium-binding protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	1Y	357	2921	1842	511	552	16	0	0
27	1Z	357	2921	1842	511	552	16	0	0

- Molecule 28 is a protein called Cilia- and flagella-associated protein 58 central coiled coil domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
28	1a	509	4224	2582	796	823	23	0	0

- Molecule 29 is a protein called Cilia- and flagella-associated protein 58 central coiled coil domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	1b	517	4282	2632	829	803	18	0	0

- Molecule 30 is a protein called CMF5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	1c	972	7724	4829	1382	1477	36	0	0

- Molecule 31 is a protein called CMF6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	1d	958	7575	4739	1359	1438	39	0	0

- Molecule 32 is a protein called CCDC113/CCDC96 coiled-coil domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	1e	328	2755	1690	534	516	15	0	0

- Molecule 33 is a protein called Cilia- and flagella-associated protein 263.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
33	1f	333	2738	1678	519	527	14	0	0

- Molecule 34 is a protein called DRC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
34	1g	570	4747	2921	882	925	19	0	0

- Molecule 35 is a protein called Dynein regulatory complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
35	1h	438	3589	2210	647	715	17	0	0

- Molecule 36 is a protein called Dynein regulatory complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
36	1i	535	4420	2768	794	841	17	0	0

- Molecule 37 is a protein called Trypanin-related protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
37	1j	424	3544	2189	663	675	17	0	0

- Molecule 38 is a protein called Trypanin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
38	1k	420	3534	2173	666	681	14	0	0

- Molecule 39 is a protein called Leucine-rich repeat protein (LRRP).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
39	1l	392	3071	1939	538	583	11	0	0

- Molecule 40 is a protein called Transglutaminase-like domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
40	1m	484	4013	2567	710	717	19	0	0

- Molecule 41 is a protein called DRC9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	1n	410	3266	2020	609	628	9	0	0

- Molecule 42 is a protein called Dynein regulatory complex protein 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	1o	416	3311	2040	579	676	16	0	0

- Molecule 43 is a protein called ATPase AAA-type core domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	1p	553	4417	2785	782	820	30	0	0

- Molecule 44 is a protein called Cilia- and flagella-associated protein 43.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	1r	1383	10942	6862	1928	2079	73	0	0

- Molecule 45 is a protein called Cilia- and flagella-associated protein 44.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	1t	1298	10371	6524	1830	1957	60	0	0

- Molecule 46 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	2A	276	Total	C	N	O	S	0	0
			2253	1422	411	409	11		
46	2B	276	Total	C	N	O	S	0	0
			2253	1422	411	409	11		
46	2C	218	Total	C	N	O	S	0	0
			1766	1113	322	322	9		

- Molecule 47 is a protein called Peptidyl-prolyl cis-trans isomerase.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	2D	247	Total	C	N	O	S	0	0
			1908	1188	346	360	14		
47	2E	247	Total	C	N	O	S	0	0
			1908	1188	346	360	14		
47	2F	247	Total	C	N	O	S	0	0
			1908	1188	346	360	14		

- Molecule 48 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	2G	298	Total	C	N	O	S	0	0
			2371	1516	415	427	13		
48	2H	298	Total	C	N	O	S	0	0
			2371	1516	415	427	13		
48	2I	298	Total	C	N	O	S	0	0
			2371	1516	415	427	13		

- Molecule 49 is a protein called FAP107/MC11.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	2J	237	Total	C	N	O	S	0	0
			1880	1180	325	363	12		
49	2K	237	Total	C	N	O	S	0	0
			1880	1180	325	363	12		
49	2L	237	Total	C	N	O	S	0	0
			1880	1180	325	363	12		

- Molecule 50 is a protein called T. brucei spp.-specific protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	2M	234	Total	C	N	O	S	0	0
			1862	1148	338	366	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
50	2N	234	Total	C	N	O	S	0	0
			1862	1148	338	366	10		
50	2O	149	Total	C	N	O	S	0	0
			1190	728	226	232	4		

- Molecule 51 is a protein called FAP95/MC6.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	2P	165	Total	C	N	O	S	0	0
			1287	808	234	239	6		
51	2Q	165	Total	C	N	O	S	0	0
			1287	808	234	239	6		

- Molecule 52 is a protein called FAP129.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	2R	258	Total	C	N	O	S	0	0
			2005	1242	371	379	13		
52	2S	258	Total	C	N	O	S	0	0
			2005	1242	371	379	13		
52	2T	258	Total	C	N	O	S	0	0
			2005	1242	371	379	13		

- Molecule 53 is a protein called T. brucei spp.-specific protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	2U	292	Total	C	N	O	S	0	0
			2311	1433	422	450	6		
53	2V	375	Total	C	N	O	S	0	0
			2968	1848	540	572	8		
53	2W	375	Total	C	N	O	S	0	0
			2968	1848	540	572	8		

- Molecule 54 is a protein called FAP21.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	2X	371	Total	C	N	O	S	0	0
			2921	1801	561	536	23		
54	2Y	371	Total	C	N	O	S	0	0
			2921	1801	561	536	23		
54	2Z	127	Total	C	N	O	S	0	0
			991	597	205	182	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
54	3D	102	802	494	150	149	9	0	0

- Molecule 55 is a protein called RSP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
55	2a	322	2609	1649	450	493	17	0	0
55	2b	322	2609	1649	450	493	17	0	0
55	2c	322	2609	1649	450	493	17	0	0
55	2d	322	2609	1649	450	493	17	0	0

- Molecule 56 is a protein called RSP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
56	2e	507	3972	2457	718	782	15	0	0
56	2f	507	3972	2457	718	782	15	0	0
56	2g	507	3972	2457	718	782	15	0	0
56	2h	507	3972	2457	718	782	15	0	0

- Molecule 57 is a protein called Radial spoke protein 3, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
57	2i	165	1413	887	259	262	5	0	0
57	2j	280	2352	1462	442	441	7	0	0
57	2k	215	1815	1136	324	350	5	0	0
57	2l	218	1835	1149	329	352	5	0	0

- Molecule 58 is a protein called Flagellar radial spoke component, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	2m	527	Total	C	N	O	S	0	0
			4232	2656	702	854	20		
58	2n	527	Total	C	N	O	S	0	0
			4232	2656	702	854	20		
58	2o	527	Total	C	N	O	S	0	0
			4232	2656	702	854	20		
58	2p	527	Total	C	N	O	S	0	0
			4232	2656	702	854	20		

- Molecule 59 is a protein called Flagellar radial spoke protein-like, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	2q	494	Total	C	N	O	S	0	0
			3881	2454	655	760	12		
59	2r	494	Total	C	N	O	S	0	0
			3881	2454	655	760	12		
59	2s	494	Total	C	N	O	S	0	0
			3881	2454	655	760	12		
59	2t	469	Total	C	N	O	S	0	0
			3679	2330	629	708	12		

- Molecule 60 is a protein called RSP8.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	2u	429	Total	C	N	O	S	0	0
			3322	2108	580	617	17		

- Molecule 61 is a protein called Radial spoke head protein 9 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	2v	297	Total	C	N	O	S	0	0
			2390	1528	408	444	10		
61	2w	297	Total	C	N	O	S	0	0
			2390	1528	408	444	10		
61	2x	297	Total	C	N	O	S	0	0
			2390	1528	408	444	10		
61	2y	297	Total	C	N	O	S	0	0
			2390	1528	408	444	10		

- Molecule 62 is a protein called Radial spoke protein RSP9.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	2z	310	Total	C	N	O	S	0	0
			2451	1563	411	466	11		
62	3a	279	Total	C	N	O	S	0	0
			2199	1416	376	397	10		
62	3b	310	Total	C	N	O	S	0	0
			2451	1563	411	466	11		
62	3c	272	Total	C	N	O	S	0	0
			2145	1381	368	386	10		

- Molecule 63 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	3A	205	Total	C	N	O	S	0	0
			1620	1004	305	303	8		
63	3B	305	Total	C	N	O	S	0	0
			2388	1483	447	448	10		
63	3C	305	Total	C	N	O	S	0	0
			2388	1483	447	448	10		

- Molecule 64 is a protein called TbRib26b.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	3E	120	Total	C	N	O	S	0	0
			953	598	170	182	3		
64	3F	98	Total	C	N	O	S	0	0
			772	492	132	146	2		
64	3G	120	Total	C	N	O	S	0	0
			953	598	170	182	3		
64	3H	98	Total	C	N	O	S	0	0
			772	492	132	146	2		
64	3I	120	Total	C	N	O	S	0	0
			953	598	170	182	3		

- Molecule 65 is a protein called EF-hand domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	3J	650	Total	C	N	O	S	0	0
			5268	3330	951	972	15		
65	3K	556	Total	C	N	O	S	0	0
			4482	2828	816	827	11		
65	3L	94	Total	C	N	O	S	0	0
			786	502	135	145	4		

- Molecule 66 is a protein called PACRGA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
66	3M	277	Total 2223	C 1425	N 399	O 393	S 6	0	0
66	3N	277	Total 2223	C 1425	N 399	O 393	S 6	0	0
66	3O	277	Total 2223	C 1425	N 399	O 393	S 6	0	0
66	3P	277	Total 2223	C 1425	N 399	O 393	S 6	0	0
66	3Q	277	Total 2223	C 1425	N 399	O 393	S 6	0	0
66	3R	277	Total 2223	C 1425	N 399	O 393	S 6	0	0
66	3S	277	Total 2223	C 1425	N 399	O 393	S 6	0	0
66	3T	277	Total 2223	C 1425	N 399	O 393	S 6	0	0

- Molecule 67 is a protein called PACRGB.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
67	3U	226	Total 1819	C 1174	N 311	O 329	S 5	0	0
67	3V	226	Total 1819	C 1174	N 311	O 329	S 5	0	0
67	3W	226	Total 1819	C 1174	N 311	O 329	S 5	0	0
67	3X	226	Total 1819	C 1174	N 311	O 329	S 5	0	0
67	3Y	226	Total 1819	C 1174	N 311	O 329	S 5	0	0

- Molecule 68 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
68	3Z	185	Total 1537	C 985	N 271	O 273	S 8	0	0
68	4A	185	Total 1537	C 985	N 271	O 273	S 8	0	0
68	4B	185	Total 1537	C 985	N 271	O 273	S 8	0	0
68	4C	185	Total 1537	C 985	N 271	O 273	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
68	4D	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4E	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4F	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4G	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4H	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4I	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4J	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4K	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4L	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4M	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		
68	4N	185	Total	C	N	O	S	0	0
			1537	985	271	273	8		

- Molecule 69 is a protein called Phosphatidylinositol 4-phosphate 5-kinase.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	3d	675	Total	C	N	O	S	0	0
			5388	3380	969	1023	16		
69	3e	675	Total	C	N	O	S	0	0
			5388	3380	969	1023	16		
69	3f	675	Total	C	N	O	S	0	0
			5388	3380	969	1023	16		
69	3g	675	Total	C	N	O	S	0	0
			5388	3380	969	1023	16		

- Molecule 70 is a protein called Cyclophilin type peptidyl-prolyl cis-trans isomerase, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	3h	310	Total	C	N	O	S	0	0
			2453	1538	426	466	23		
70	3i	310	Total	C	N	O	S	0	0
			2453	1538	426	466	23		

- Molecule 71 is a protein called RSP14.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
71	3j	380	3009	1900	526	562	21	0	0

- Molecule 72 is a protein called Leucine-rich repeat protein (LRRP).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
72	3k	364	2743	1715	479	534	15	0	0

- Molecule 73 is a protein called Chaperone protein DNAJ, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
73	3l	302	2354	1487	413	448	6	0	0
73	3m	289	2252	1420	397	429	6	0	0
73	3o	302	2354	1487	413	448	6	0	0
73	3p	289	2252	1420	397	429	6	0	0

- Molecule 74 is a protein called Nucleoside diphosphate kinase.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
74	3q	223	1769	1121	320	320	8	0	0
74	3r	223	1769	1121	320	320	8	0	0
74	3s	223	1769	1121	320	320	8	0	0
74	3t	223	1769	1121	320	320	8	0	0

- Molecule 75 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
75	3u	87	715	465	116	131	3	0	0
75	3v	87	715	465	116	131	3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
75	3w	88	722	469	117	133	3	0	0
75	3x	87	715	465	116	131	3	0	0
75	3y	87	715	465	116	131	3	0	0
75	3z	87	715	465	116	131	3	0	0
75	4a	87	715	465	116	131	3	0	0
75	4b	87	715	465	116	131	3	0	0
75	4c	87	717	467	116	131	3	0	0
75	4d	87	717	467	116	131	3	0	0
75	4e	86	710	463	115	129	3	0	0
75	4f	86	710	463	115	129	3	0	0
75	4g	87	717	467	116	131	3	0	0
75	4h	87	717	467	116	131	3	0	0
75	4i	86	710	463	115	129	3	0	0
75	4j	86	710	463	115	129	3	0	0
75	4k	86	710	463	115	129	3	0	0
75	4l	86	710	463	115	129	3	0	0
75	4m	86	710	463	115	129	3	0	0
75	4n	86	710	463	115	129	3	0	0
75	5s	87	715	465	116	131	3	0	0
75	5t	89	728	472	118	135	3	0	0
75	5u	84	687	449	109	126	3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
75	5v	86	Total	C	N	O	S	0	0
			707	461	115	128	3		
75	5w	90	Total	C	N	O	S	0	0
			736	477	119	136	4		
75	5x	90	Total	C	N	O	S	0	0
			736	477	119	136	4		
75	7k	89	Total	C	N	O	S	0	0
			728	472	118	135	3		
75	7n	84	Total	C	N	O	S	0	0
			687	449	109	126	3		
75	7o	86	Total	C	N	O	S	0	0
			707	461	115	128	3		
75	7p	86	Total	C	N	O	S	0	0
			707	461	115	128	3		
75	8k	89	Total	C	N	O	S	0	0
			728	472	118	135	3		
75	8n	84	Total	C	N	O	S	0	0
			687	449	109	126	3		
75	8o	86	Total	C	N	O	S	0	0
			707	461	115	128	3		
75	8p	86	Total	C	N	O	S	0	0
			707	461	115	128	3		
75	9k	89	Total	C	N	O	S	0	0
			728	472	118	135	3		
75	9n	84	Total	C	N	O	S	0	0
			687	449	109	126	3		
75	9o	86	Total	C	N	O	S	0	0
			707	461	115	128	3		
75	9p	86	Total	C	N	O	S	0	0
			707	461	115	128	3		

- Molecule 76 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	4O	620	Total	C	N	O	S	0	0
			4671	2918	821	901	31		
76	4P	627	Total	C	N	O	S	0	0
			4727	2953	829	914	31		
76	4Q	627	Total	C	N	O	S	0	0
			4727	2953	829	914	31		
76	4R	620	Total	C	N	O	S	0	0
			4671	2918	821	901	31		

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Mol	Chain	Residues	Atoms					AltConf	Trace
76	4S	627	Total	C	N	O	S	0	0
			4727	2953	829	914	31		
76	4T	627	Total	C	N	O	S	0	0
			4727	2953	829	914	31		
76	4U	620	Total	C	N	O	S	0	0
			4671	2918	821	901	31		

- Molecule 77 is a protein called Enkurin domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	4V	240	Total	C	N	O	S	0	0
			1867	1166	339	358	4		
77	4W	240	Total	C	N	O	S	0	0
			1867	1166	339	358	4		
77	4X	240	Total	C	N	O	S	0	0
			1867	1166	339	358	4		
77	4Y	240	Total	C	N	O	S	0	0
			1867	1166	339	358	4		
77	4Z	240	Total	C	N	O	S	0	0
			1867	1166	339	358	4		

- Molecule 78 is a protein called Cytochrome b5 domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	4o	220	Total	C	N	O	S	0	0
			1802	1139	302	352	9		
78	4p	220	Total	C	N	O	S	0	0
			1802	1139	302	352	9		

- Molecule 79 is a protein called Leucine-rich repeat protein (LRRP).

Mol	Chain	Residues	Atoms					AltConf	Trace
79	4q	852	Total	C	N	O	S	0	0
			6513	4052	1149	1276	36		
79	4r	852	Total	C	N	O	S	0	0
			6513	4052	1149	1276	36		

- Molecule 80 is a protein called VWFA domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	4s	809	Total	C	N	O	S	0	0
			6179	3905	1079	1154	41		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
80	4t	809	6179	3905	1079	1154	41	0	0

- Molecule 81 is a protein called TbRSP63.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
81	4u	501	3934	2439	702	770	23	0	0
81	4v	501	3934	2439	702	770	23	0	0

- Molecule 82 is a protein called IQ and ubiquitin-like domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
82	4w	512	4141	2593	775	757	16	0	0

- Molecule 83 is a protein called Calmodulin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
83	4x	148	839	501	160	176	2	0	0

- Molecule 84 is a protein called MORN repeat-containing protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
84	4y	661	5306	3343	952	984	27	0	0

- Molecule 85 is a protein called Cilia- and flagella-associated protein 206.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
85	4z	528	4132	2595	726	785	26	0	0

- Molecule 86 is a protein called Enkurin domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
86	5A	229	1905	1207	344	347	7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
86	5B	229	1905	1207	344	347	7	0	0

- Molecule 87 is a protein called MC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
87	5C	279	2217	1384	418	404	11	0	0
87	5D	275	2186	1366	412	398	10	0	0
87	5E	275	2186	1366	412	398	10	0	0
87	5F	279	2217	1384	418	404	11	0	0
87	5G	275	2186	1366	412	398	10	0	0
87	5H	275	2186	1366	412	398	10	0	0
87	5I	279	2217	1384	418	404	11	0	0
87	5J	173	1370	849	266	247	8	0	0

- Molecule 88 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
88	5K	153	1308	790	260	249	9	0	0
88	5S	165	1369	821	260	275	13	0	0
88	5T	459	3875	2336	762	753	24	0	0
88	5U	459	3875	2336	762	753	24	0	0
88	5V	295	2465	1490	478	482	15	0	0
88	5W	473	3981	2402	783	772	24	0	0
88	5X	382	3253	1966	638	632	17	0	0

- Molecule 89 is a protein called CCDC81 HU domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
89	5L	239	Total	C	N	O	S	0	0
			1911	1207	342	348	14		
89	5M	239	Total	C	N	O	S	0	0
			1911	1207	342	348	14		

- Molecule 90 is a protein called MC5.

Mol	Chain	Residues	Atoms					AltConf	Trace
90	5N	238	Total	C	N	O	S	0	0
			1900	1188	349	355	8		
90	5O	238	Total	C	N	O	S	0	0
			1900	1188	349	355	8		
90	5P	238	Total	C	N	O	S	0	0
			1900	1188	349	355	8		
90	5Q	238	Total	C	N	O	S	0	0
			1900	1188	349	355	8		
90	5R	238	Total	C	N	O	S	0	0
			1900	1188	349	355	8		

- Molecule 91 is a protein called Trichohyalin-plectin-homology domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
91	5Y	408	Total	C	N	O	S	0	0
			3422	2084	668	652	18		
91	5Z	465	Total	C	N	O	S	0	0
			3907	2378	757	751	21		
91	6A	262	Total	C	N	O	S	0	0
			2236	1357	437	429	13		

- Molecule 92 is a protein called TbRSP62.

Mol	Chain	Residues	Atoms					AltConf	Trace
92	5a	155	Total	C	N	O	S	0	0
			1256	783	231	237	5		

- Molecule 93 is a protein called Cilia- and flagella-associated protein 91.

Mol	Chain	Residues	Atoms					AltConf	Trace
93	5b	172	Total	C	N	O	S	0	0
			1419	876	270	267	6		

- Molecule 94 is a protein called Cilia- and flagella-associated protein 251.

Mol	Chain	Residues	Atoms					AltConf	Trace
94	5c	918	Total	C	N	O	S	0	0
			7136	4531	1227	1343	35		

- Molecule 95 is a protein called Cilia- and flagella-associated protein 61 N-terminal domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
95	5d	1274	Total	C	N	O	S	0	0
			10191	6477	1738	1929	47		

- Molecule 96 is a protein called DUF4200 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
96	5e	225	Total	C	N	O	S	0	0
			1895	1154	373	362	6		

- Molecule 97 is a protein called DUF4200 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
97	5f	322	Total	C	N	O	S	0	0
			2649	1636	481	519	13		

- Molecule 98 is a protein called Leucine-rich repeat-containing protein 51.

Mol	Chain	Residues	Atoms					AltConf	Trace
98	5g	435	Total	C	N	O	S	0	0
			3510	2220	618	654	18		

- Molecule 99 is a protein called IDAf-alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
99	5h	1379	Total	C	N	O	S	0	0
			11265	7169	1969	2076	51		
99	5i	3336	Total	C	N	O	S	0	0
			26792	17002	4620	5021	149		

- Molecule 100 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
100	5j	1336	Total	C	N	O	S	0	0
			10917	6902	1939	2025	51		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
100	5k	3425	27648	17529	4783	5192	144	0	0

- Molecule 101 is a protein called Dynein axonemal intermediate chain 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
101	5l	435	3410	2133	590	666	21	0	0

- Molecule 102 is a protein called IC140.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
102	5m	477	3788	2392	690	686	20	0	0

- Molecule 103 is a protein called IC97/Casc1 N-terminal domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
103	5n	645	5223	3319	902	976	26	0	0

- Molecule 104 is a protein called FAP120.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
104	5o	337	2622	1621	473	512	16	0	0

- Molecule 105 is a protein called Dynein light chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
105	5p	111	929	583	167	172	7	0	0
105	7i	111	929	583	167	172	7	0	0
105	8i	111	929	583	167	172	7	0	0
105	9i	111	929	583	167	172	7	0	0

- Molecule 106 is a protein called Dynein light chain roadblock.

Mol	Chain	Residues	Atoms					AltConf	Trace
106	5q	98	Total	C	N	O	S	0	0
			784	500	139	144	1		
106	7l	98	Total	C	N	O	S	0	0
			784	500	139	144	1		
106	8l	98	Total	C	N	O	S	0	0
			784	500	139	144	1		
106	9l	98	Total	C	N	O	S	0	0
			784	500	139	144	1		

- Molecule 107 is a protein called Dynein light chain roadblock.

Mol	Chain	Residues	Atoms					AltConf	Trace
107	5r	95	Total	C	N	O	S	0	0
			756	470	138	145	3		
107	7m	95	Total	C	N	O	S	0	0
			756	470	138	145	3		
107	8m	95	Total	C	N	O	S	0	0
			756	470	138	145	3		
107	9m	95	Total	C	N	O	S	0	0
			756	470	138	145	3		

- Molecule 108 is a protein called Dynein light chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
108	5y	102	Total	C	N	O	S	0	0
			823	533	133	153	4		
108	7q	102	Total	C	N	O	S	0	0
			823	533	133	153	4		
108	8q	102	Total	C	N	O	S	0	0
			823	533	133	153	4		
108	9q	102	Total	C	N	O	S	0	0
			823	533	133	153	4		

- Molecule 109 is a protein called Trichohyalin-plectin-homology domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
109	6B	93	Total	C	N	O	S	0	0
			786	487	155	142	2		
109	6C	318	Total	C	N	O	S	0	0
			2691	1646	523	508	14		
109	6D	318	Total	C	N	O	S	0	0
			2691	1646	523	508	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
109	6E	80	Total	C	N	O	S	0	0
			699	429	133	135	2		
109	6F	344	Total	C	N	O	S	0	0
			2892	1769	564	545	14		
109	6G	347	Total	C	N	O	S	0	0
			2912	1780	567	551	14		
109	6H	180	Total	C	N	O	S	0	0
			1538	931	303	296	8		
109	6I	239	Total	C	N	O	S	0	0
			1975	1209	384	372	10		
109	6J	346	Total	C	N	O	S	0	0
			2905	1775	566	550	14		
109	6K	285	Total	C	N	O	S	0	0
			2394	1457	467	458	12		
109	6L	141	Total	C	N	O	S	0	0
			1161	721	225	213	2		
109	6M	347	Total	C	N	O	S	0	0
			2912	1780	567	551	14		
109	6N	347	Total	C	N	O	S	0	0
			2912	1780	567	551	14		
109	6O	253	Total	C	N	O	S	0	0
			2146	1307	417	410	12		
109	6P	253	Total	C	N	O	S	0	0
			2146	1307	417	410	12		
109	6Q	163	Total	C	N	O	S	0	0
			1406	852	276	270	8		

- Molecule 110 is a protein called STOP axonemal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
110	6R	151	Total	C	N	O	S	0	0
			1199	765	212	217	5		
110	6S	228	Total	C	N	O	S	0	0
			1816	1155	318	332	11		
110	6T	177	Total	C	N	O	S	0	0
			1415	902	243	261	9		
110	6U	98	Total	C	N	O	S	0	0
			776	492	138	141	5		
110	6V	231	Total	C	N	O	S	0	0
			1846	1168	331	336	11		
110	6W	231	Total	C	N	O	S	0	0
			1846	1168	331	336	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
110	6X	51	Total	C	N	O	S	0	0
			401	250	70	76	5		
110	6Y	229	Total	C	N	O	S	0	0
			1819	1152	322	334	11		
110	6Z	229	Total	C	N	O	S	0	0
			1819	1152	322	334	11		
110	7A	112	Total	C	N	O	S	0	0
			886	559	158	163	6		
110	7B	179	Total	C	N	O	S	0	0
			1430	912	251	262	5		
110	7C	239	Total	C	N	O	S	0	0
			1907	1212	334	350	11		
110	7D	178	Total	C	N	O	S	0	0
			1424	907	246	262	9		
110	7E	106	Total	C	N	O	S	0	0
			839	530	147	157	5		
110	7F	228	Total	C	N	O	S	0	0
			1814	1148	321	334	11		
110	7G	228	Total	C	N	O	S	0	0
			1814	1148	321	334	11		
110	7H	101	Total	C	N	O	S	0	0
			798	503	144	145	6		
110	7I	237	Total	C	N	O	S	0	0
			1884	1193	336	344	11		
110	7J	237	Total	C	N	O	S	0	0
			1884	1193	336	344	11		
110	7K	51	Total	C	N	O	S	0	0
			401	253	75	71	2		
110	9Z	43	Total	C	N	O	S	0	0
			337	213	64	59	1		

- Molecule 111 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
111	6a	4058	Total	C	N	O	S	0	0
			32697	20810	5575	6136	176		

- Molecule 112 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
112	6b	4055	Total	C	N	O	S	0	0
			32697	20834	5572	6089	202		

- Molecule 113 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
113	6c	3929	31436	19931	5406	5916	183	0	0

- Molecule 114 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
114	6d	4002	31959	20295	5495	6005	164	0	0

- Molecule 115 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
115	6e	4089	32835	20894	5595	6161	185	0	0

- Molecule 116 is a protein called Actin A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
116	6f	372	2905	1835	492	556	22	0	0
116	6g	371	2896	1830	491	553	22	0	0

- Molecule 117 is a protein called Actin-like protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
117	6h	393	3040	1901	539	578	22	0	0

- Molecule 118 is a protein called Actin, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
118	6i	412	3215	2021	571	602	21	0	0

- Molecule 119 is a protein called Actin, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
119	6j	392	3038	1921	525	573	19	0	0

- Molecule 120 is a protein called Dynein arm light chain, axonemal, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
120	6k	168	Total	C	N	O	S	0	0
			1383	854	248	273	8		
120	6l	214	Total	C	N	O	S	0	0
			1770	1109	310	343	8		
120	6m	221	Total	C	N	O	S	0	0
			1825	1142	321	354	8		

- Molecule 121 is a protein called 33 kDa inner dynein arm light chain, axonemal, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
121	6n	195	Total	C	N	O	S	0	0
			1621	1004	303	308	6		

- Molecule 122 is a protein called Dynein arm light chain, axonemal, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
122	6o	243	Total	C	N	O	S	0	0
			1959	1224	365	362	8		

- Molecule 123 is a protein called Dynein arm light chain, axonemal, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
123	6p	164	Total	C	N	O	S	0	0
			1370	846	258	258	8		

- Molecule 124 is a protein called Protein TAX-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
124	6q	338	Total	C	N	O	S	0	0
			2687	1714	467	496	10		

- Molecule 125 is a protein called Tetratricopeptide repeat protein 29.

Mol	Chain	Residues	Atoms					AltConf	Trace
125	6r	364	Total	C	N	O	S	0	0
			2906	1816	517	554	19		

- Molecule 126 is a protein called Tetratricopeptide repeat protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
126	6s	370	2835	1774	523	517	21	0	0

- Molecule 127 is a protein called Centrin, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
127	6t	153	1226	772	205	244	5	0	0

- Molecule 128 is a protein called Centrin, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
128	6u	153	1206	760	206	235	5	0	0

- Molecule 129 is a protein called MC8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
129	7L	154	1293	822	224	238	9	0	0
129	7M	154	1293	822	224	238	9	0	0

- Molecule 130 is a protein called MC3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
130	7N	163	1338	844	232	252	10	0	0
130	7O	163	1338	844	232	252	10	0	0
130	7P	163	1338	844	232	252	10	0	0

- Molecule 131 is a protein called FAP90.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
131	7Q	161	1281	794	235	244	8	0	0
131	7R	161	1281	794	235	244	8	0	0
131	7S	161	1281	794	235	244	8	0	0

- Molecule 132 is a protein called PBP36.

Mol	Chain	Residues	Atoms					AltConf	Trace
132	7T	161	Total	C	N	O	S	0	0
			1288	821	240	222	5		
132	7U	298	Total	C	N	O	S	0	0
			2408	1525	452	421	10		
132	8L	238	Total	C	N	O	S	0	0
			1938	1226	367	338	7		

- Molecule 133 is a protein called Enkurin domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
133	7V	239	Total	C	N	O	S	0	0
			1920	1191	366	352	11		
133	7W	238	Total	C	N	O	S	0	0
			1906	1183	363	347	13		
133	7X	231	Total	C	N	O	S	0	0
			1844	1145	349	337	13		
133	7Y	239	Total	C	N	O	S	0	0
			1920	1191	366	352	11		
133	7Z	238	Total	C	N	O	S	0	0
			1906	1183	363	347	13		
133	8A	231	Total	C	N	O	S	0	0
			1844	1145	349	337	13		
133	8B	239	Total	C	N	O	S	0	0
			1920	1191	366	352	11		
133	8C	238	Total	C	N	O	S	0	0
			1906	1183	363	347	13		

- Molecule 134 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
134	7a	3423	Total	C	N	O	S	0	0
			27522	17521	4745	5105	151		
134	7e	4629	Total	C	N	O	S	0	0
			37310	23753	6431	6935	191		
134	8e	4629	Total	C	N	O	S	0	0
			37310	23753	6431	6935	191		
134	9e	4629	Total	C	N	O	S	0	0
			37310	23753	6431	6935	191		

- Molecule 135 is a protein called Dynein heavy chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
135	7b	3366	Total	C	N	O	S	0	0
			27000	17185	4608	5047	160		
135	7f	4591	Total	C	N	O	S	0	0
			36840	23385	6285	6962	208		
135	8f	4591	Total	C	N	O	S	0	0
			36840	23385	6285	6962	208		
135	9f	4591	Total	C	N	O	S	0	0
			36840	23385	6285	6962	208		

- Molecule 136 is a protein called TbDC65.

Mol	Chain	Residues	Atoms					AltConf	Trace
136	7c	340	Total	C	N	O	S	0	0
			2790	1756	517	504	13		
136	8c	340	Total	C	N	O	S	0	0
			2790	1756	517	504	13		
136	9c	340	Total	C	N	O	S	0	0
			2790	1756	517	504	13		

- Molecule 137 is a protein called TbDC13.

Mol	Chain	Residues	Atoms					AltConf	Trace
137	7d	80	Total	C	N	O	S	0	0
			662	425	123	107	7		
137	8d	80	Total	C	N	O	S	0	0
			662	425	123	107	7		
137	9d	80	Total	C	N	O	S	0	0
			662	425	123	107	7		

- Molecule 138 is a protein called Dynein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
138	7g	533	Total	C	N	O	S	0	0
			4236	2662	743	812	19		
138	8g	533	Total	C	N	O	S	0	0
			4236	2662	743	812	19		
138	9g	533	Total	C	N	O	S	0	0
			4236	2662	743	812	19		

- Molecule 139 is a protein called Dynein intermediate chain, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
139	7h	609	Total	C	N	O	S	0	0
			4830	3046	835	920	29		
139	8h	609	Total	C	N	O	S	0	0
			4830	3046	835	920	29		
139	9h	609	Total	C	N	O	S	0	0
			4830	3046	835	920	29		

- Molecule 140 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
140	7j	105	Total	C	N	O	S	0	0
			855	547	139	158	11		
140	8j	105	Total	C	N	O	S	0	0
			855	547	139	158	11		
140	9j	105	Total	C	N	O	S	0	0
			855	547	139	158	11		

- Molecule 141 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
141	7r	98	Total	C	N	O	S	0	0
			776	484	140	147	5		
141	8r	98	Total	C	N	O	S	0	0
			776	484	140	147	5		
141	9r	98	Total	C	N	O	S	0	0
			776	484	140	147	5		

- Molecule 142 is a protein called Outer dynein arm docking complex.

Mol	Chain	Residues	Atoms					AltConf	Trace
142	7s	164	Total	C	N	O	S	0	0
			1320	823	229	262	6		
142	8s	327	Total	C	N	O	S	0	0
			2670	1645	501	518	6		
142	9a	180	Total	C	N	O		0	0
			1504	916	305	283			
142	9s	344	Total	C	N	O	S	0	0
			2824	1739	534	545	6		

- Molecule 143 is a protein called ODAD1 central coiled coil region domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
143	7t	179	Total	C	N	O	S	0	0
			1441	888	260	288	5		
143	8t	339	Total	C	N	O	S	0	0
			2727	1662	501	552	12		
143	9b	181	Total	C	N	O	S	0	0
			1450	871	273	299	7		
143	9t	360	Total	C	N	O	S	0	0
			2891	1759	533	587	12		

- Molecule 144 is a protein called Enkurin domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
144	8D	249	Total	C	N	O	S	0	0
			2017	1253	377	376	11		
144	8E	120	Total	C	N	O	S	0	0
			990	609	183	193	5		
144	8F	239	Total	C	N	O	S	0	0
			1937	1202	360	364	11		
144	8G	249	Total	C	N	O	S	0	0
			2017	1253	377	376	11		
144	8H	120	Total	C	N	O	S	0	0
			990	609	183	193	5		
144	8I	239	Total	C	N	O	S	0	0
			1937	1202	360	364	11		
144	8J	249	Total	C	N	O	S	0	0
			2017	1253	377	376	11		
144	8K	120	Total	C	N	O	S	0	0
			990	609	183	193	5		

- Molecule 145 is a protein called PON3.

Mol	Chain	Residues	Atoms					AltConf	Trace
145	8M	100	Total	C	N	O	S	0	0
			824	509	158	149	8		
145	8N	108	Total	C	N	O	S	0	0
			889	548	171	162	8		
145	8O	104	Total	C	N	O	S	0	0
			858	528	167	155	8		
145	8P	100	Total	C	N	O	S	0	0
			824	509	158	149	8		
145	8Q	108	Total	C	N	O	S	0	0
			889	548	171	162	8		
145	8R	104	Total	C	N	O	S	0	0
			858	528	167	155	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
145	8S	100	Total	C	N	O	S	0	0
			824	509	158	149	8		
145	8T	108	Total	C	N	O	S	0	0
			889	548	171	162	8		

- Molecule 146 is a protein called PON4.

Mol	Chain	Residues	Atoms					AltConf	Trace
146	8U	40	Total	C	N	O	S	0	0
			327	199	60	67	1		
146	8V	131	Total	C	N	O	S	0	0
			1054	633	203	208	10		
146	8W	40	Total	C	N	O	S	0	0
			327	199	60	67	1		
146	8X	40	Total	C	N	O	S	0	0
			327	199	60	67	1		
146	8Y	131	Total	C	N	O	S	0	0
			1054	633	203	208	10		
146	8Z	40	Total	C	N	O	S	0	0
			327	199	60	67	1		
146	9A	40	Total	C	N	O	S	0	0
			327	199	60	67	1		
146	9B	116	Total	C	N	O	S	0	0
			942	564	181	187	10		

- Molecule 147 is a protein called MC7.

Mol	Chain	Residues	Atoms					AltConf	Trace
147	9C	203	Total	C	N	O	S	0	0
			1642	1020	321	293	8		
147	9D	203	Total	C	N	O	S	0	0
			1642	1020	321	293	8		
147	9E	33	Total	C	N	O	S	0	0
			274	177	46	50	1		

- Molecule 148 is a protein called FAP96C/MC15.

Mol	Chain	Residues	Atoms					AltConf	Trace
148	9F	28	Total	C	N	O	S	0	0
			223	143	39	39	2		
148	9G	155	Total	C	N	O	S	0	0
			1218	770	211	229	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
148	9H	155	Total	C	N	O	S	0	0
			1218	770	211	229	8		
148	9I	102	Total	C	N	O	S	0	0
			798	499	141	154	4		

- Molecule 149 is a protein called FAP96B.

Mol	Chain	Residues	Atoms					AltConf	Trace
149	9J	173	Total	C	N	O	S	0	0
			1432	926	252	246	8		
149	9K	275	Total	C	N	O	S	0	0
			2269	1458	402	398	11		
149	9L	253	Total	C	N	O	S	0	0
			2071	1328	364	368	11		

- Molecule 150 is a protein called MOP23A.

Mol	Chain	Residues	Atoms					AltConf	Trace
150	9M	160	Total	C	N	O	S	0	0
			1380	847	261	270	2		
150	9N	160	Total	C	N	O	S	0	0
			1380	847	261	270	2		
150	9O	159	Total	C	N	O	S	0	0
			1373	843	260	268	2		
150	9P	160	Total	C	N	O	S	0	0
			1380	847	261	270	2		
150	9Q	160	Total	C	N	O	S	0	0
			1380	847	261	270	2		
150	9R	159	Total	C	N	O	S	0	0
			1373	843	260	268	2		
150	9S	160	Total	C	N	O	S	0	0
			1380	847	261	270	2		

- Molecule 151 is a protein called MOP23B.

Mol	Chain	Residues	Atoms					AltConf	Trace
151	9T	144	Total	C	N	O	S	0	0
			1193	730	230	229	4		
151	9U	144	Total	C	N	O	S	0	0
			1193	730	230	229	4		
151	9V	132	Total	C	N	O	S	0	0
			1091	669	210	208	4		

- Molecule 152 is a protein called MOP23C.

Mol	Chain	Residues	Atoms					AltConf	Trace
152	9W	71	Total	C	N	O	S	0	0
			583	368	100	113	2		
152	9X	71	Total	C	N	O	S	0	0
			583	368	100	113	2		
152	9Y	71	Total	C	N	O	S	0	0
			583	368	100	113	2		

- Molecule 153 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
153	AA	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AC	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AE	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AG	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AI	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AK	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AM	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AO	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AQ	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AS	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AU	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AW	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	AY	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	Aa	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	Ac	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	Ae	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	Ag	430	3372	2114	575	652	31	0	0
153	Ai	430	3372	2114	575	652	31	0	0
153	Ak	430	3372	2114	575	652	31	0	0
153	Am	430	3372	2114	575	652	31	0	0
153	Ao	430	3372	2114	575	652	31	0	0
153	BA	430	3372	2114	575	652	31	0	0
153	BC	430	3372	2114	575	652	31	0	0
153	BG	430	3372	2114	575	652	31	0	0
153	BI	430	3372	2114	575	652	31	0	0
153	BK	430	3372	2114	575	652	31	0	0
153	BM	430	3372	2114	575	652	31	0	0
153	BO	430	3372	2114	575	652	31	0	0
153	BQ	430	3372	2114	575	652	31	0	0
153	BS	430	3372	2114	575	652	31	0	0
153	BU	430	3372	2114	575	652	31	0	0
153	BW	430	3372	2114	575	652	31	0	0
153	BY	430	3372	2114	575	652	31	0	0
153	CA	430	3372	2114	575	652	31	0	0
153	CC	430	3372	2114	575	652	31	0	0
153	CE	430	3372	2114	575	652	31	0	0
153	CH	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	CK	430	3372	2114	575	652	31	0	0
153	CM	430	3372	2114	575	652	31	0	0
153	CO	430	3372	2114	575	652	31	0	0
153	CQ	430	3372	2114	575	652	31	0	0
153	CS	430	3372	2114	575	652	31	0	0
153	CU	430	3372	2114	575	652	31	0	0
153	CW	430	3372	2114	575	652	31	0	0
153	CY	430	3372	2114	575	652	31	0	0
153	DA	430	3372	2114	575	652	31	0	0
153	DC	430	3372	2114	575	652	31	0	0
153	DE	430	3372	2114	575	652	31	0	0
153	DG	430	3372	2114	575	652	31	0	0
153	DI	430	3372	2114	575	652	31	0	0
153	DK	430	3372	2114	575	652	31	0	0
153	DN	430	3372	2114	575	652	31	0	0
153	DP	430	3372	2114	575	652	31	0	0
153	DR	430	3372	2114	575	652	31	0	0
153	DT	430	3372	2114	575	652	31	0	0
153	DV	430	3372	2114	575	652	31	0	0
153	DX	430	3372	2114	575	652	31	0	0
153	DZ	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	EB	430	3372	2114	575	652	31	0	0
153	ED	430	3372	2114	575	652	31	0	0
153	EF	430	3372	2114	575	652	31	0	0
153	EH	430	3372	2114	575	652	31	0	0
153	EJ	430	3372	2114	575	652	31	0	0
153	EL	430	3372	2114	575	652	31	0	0
153	EN	430	3372	2114	575	652	31	0	0
153	ER	430	3372	2114	575	652	31	0	0
153	ET	430	3372	2114	575	652	31	0	0
153	EV	430	3372	2114	575	652	31	0	0
153	EX	430	3372	2114	575	652	31	0	0
153	EZ	430	3372	2114	575	652	31	0	0
153	FB	430	3372	2114	575	652	31	0	0
153	FD	430	3372	2114	575	652	31	0	0
153	FF	430	3372	2114	575	652	31	0	0
153	FH	430	3372	2114	575	652	31	0	0
153	FJ	430	3372	2114	575	652	31	0	0
153	FL	430	3372	2114	575	652	31	0	0
153	FN	430	3372	2114	575	652	31	0	0
153	FP	430	3372	2114	575	652	31	0	0
153	FR	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	FT	430	3372	2114	575	652	31	0	0
153	FV	430	3372	2114	575	652	31	0	0
153	FX	430	3372	2114	575	652	31	0	0
153	FZ	430	3372	2114	575	652	31	0	0
153	GB	430	3372	2114	575	652	31	0	0
153	GD	430	3372	2114	575	652	31	0	0
153	GF	430	3372	2114	575	652	31	0	0
153	GH	430	3372	2114	575	652	31	0	0
153	GJ	430	3372	2114	575	652	31	0	0
153	GL	430	3372	2114	575	652	31	0	0
153	GN	430	3372	2114	575	652	31	0	0
153	GP	430	3372	2114	575	652	31	0	0
153	GR	430	3372	2114	575	652	31	0	0
153	GT	430	3372	2114	575	652	31	0	0
153	GV	430	3372	2114	575	652	31	0	0
153	GX	430	3372	2114	575	652	31	0	0
153	GZ	430	3372	2114	575	652	31	0	0
153	HB	430	3372	2114	575	652	31	0	0
153	HD	430	3372	2114	575	652	31	0	0
153	HF	430	3372	2114	575	652	31	0	0
153	HH	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	HJ	430	3372	2114	575	652	31	0	0
153	HL	430	3372	2114	575	652	31	0	0
153	HN	430	3372	2114	575	652	31	0	0
153	HP	430	3372	2114	575	652	31	0	0
153	HR	430	3372	2114	575	652	31	0	0
153	HT	430	3372	2114	575	652	31	0	0
153	HV	430	3372	2114	575	652	31	0	0
153	HX	430	3372	2114	575	652	31	0	0
153	HZ	430	3372	2114	575	652	31	0	0
153	IB	430	3372	2114	575	652	31	0	0
153	ID	430	3372	2114	575	652	31	0	0
153	IF	430	3372	2114	575	652	31	0	0
153	IH	430	3372	2114	575	652	31	0	0
153	IJ	430	3372	2114	575	652	31	0	0
153	IL	430	3372	2114	575	652	31	0	0
153	IN	430	3372	2114	575	652	31	0	0
153	IP	430	3372	2114	575	652	31	0	0
153	IR	430	3372	2114	575	652	31	0	0
153	IT	430	3372	2114	575	652	31	0	0
153	IV	430	3372	2114	575	652	31	0	0
153	IX	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	IZ	430	3372	2114	575	652	31	0	0
153	JB	430	3372	2114	575	652	31	0	0
153	JD	430	3372	2114	575	652	31	0	0
153	JF	430	3372	2114	575	652	31	0	0
153	JG	430	3372	2114	575	652	31	0	0
153	JI	430	3372	2114	575	652	31	0	0
153	JK	430	3372	2114	575	652	31	0	0
153	JM	430	3372	2114	575	652	31	0	0
153	JO	430	3372	2114	575	652	31	0	0
153	JQ	430	3372	2114	575	652	31	0	0
153	JS	430	3372	2114	575	652	31	0	0
153	JU	430	3372	2114	575	652	31	0	0
153	JW	430	3372	2114	575	652	31	0	0
153	JY	430	3372	2114	575	652	31	0	0
153	KA	430	3372	2114	575	652	31	0	0
153	KC	430	3372	2114	575	652	31	0	0
153	KE	430	3372	2114	575	652	31	0	0
153	KG	430	3372	2114	575	652	31	0	0
153	KI	430	3372	2114	575	652	31	0	0
153	KK	430	3372	2114	575	652	31	0	0
153	KM	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	KO	430	3372	2114	575	652	31	0	0
153	KQ	430	3372	2114	575	652	31	0	0
153	KS	430	3372	2114	575	652	31	0	0
153	KU	430	3372	2114	575	652	31	0	0
153	KW	430	3372	2114	575	652	31	0	0
153	KY	430	3372	2114	575	652	31	0	0
153	LA	430	3372	2114	575	652	31	0	0
153	LC	430	3372	2114	575	652	31	0	0
153	LE	430	3372	2114	575	652	31	0	0
153	LG	430	3372	2114	575	652	31	0	0
153	LI	430	3372	2114	575	652	31	0	0
153	LK	430	3372	2114	575	652	31	0	0
153	LM	430	3372	2114	575	652	31	0	0
153	LO	430	3372	2114	575	652	31	0	0
153	LQ	430	3372	2114	575	652	31	0	0
153	LS	430	3372	2114	575	652	31	0	0
153	LU	430	3372	2114	575	652	31	0	0
153	LW	430	3372	2114	575	652	31	0	0
153	LY	430	3372	2114	575	652	31	0	0
153	MA	430	3372	2114	575	652	31	0	0
153	MC	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	ME	430	3372	2114	575	652	31	0	0
153	MG	430	3372	2114	575	652	31	0	0
153	MI	430	3372	2114	575	652	31	0	0
153	MK	430	3372	2114	575	652	31	0	0
153	MM	430	3372	2114	575	652	31	0	0
153	MO	430	3372	2114	575	652	31	0	0
153	MQ	430	3372	2114	575	652	31	0	0
153	MU	430	3372	2114	575	652	31	0	0
153	MW	430	3372	2114	575	652	31	0	0
153	MY	430	3372	2114	575	652	31	0	0
153	NA	430	3372	2114	575	652	31	0	0
153	NC	430	3372	2114	575	652	31	0	0
153	NE	430	3372	2114	575	652	31	0	0
153	NG	430	3372	2114	575	652	31	0	0
153	NI	430	3372	2114	575	652	31	0	0
153	NK	430	3372	2114	575	652	31	0	0
153	NM	430	3372	2114	575	652	31	0	0
153	NO	430	3372	2114	575	652	31	0	0
153	NQ	430	3372	2114	575	652	31	0	0
153	NS	430	3372	2114	575	652	31	0	0
153	NU	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	NY	430	3372	2114	575	652	31	0	0
153	OA	430	3372	2114	575	652	31	0	0
153	OC	430	3372	2114	575	652	31	0	0
153	OE	430	3372	2114	575	652	31	0	0
153	OG	430	3372	2114	575	652	31	0	0
153	OI	430	3372	2114	575	652	31	0	0
153	OK	430	3372	2114	575	652	31	0	0
153	OM	430	3372	2114	575	652	31	0	0
153	OO	430	3372	2114	575	652	31	0	0
153	OQ	430	3372	2114	575	652	31	0	0
153	OS	430	3372	2114	575	652	31	0	0
153	OU	430	3372	2114	575	652	31	0	0
153	OW	430	3372	2114	575	652	31	0	0
153	OY	430	3372	2114	575	652	31	0	0
153	PA	430	3372	2114	575	652	31	0	0
153	PD	430	3372	2114	575	652	31	0	0
153	PF	430	3372	2114	575	652	31	0	0
153	PH	430	3372	2114	575	652	31	0	0
153	PJ	430	3372	2114	575	652	31	0	0
153	PL	430	3372	2114	575	652	31	0	0
153	PN	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	PP	430	3372	2114	575	652	31	0	0
153	PR	430	3372	2114	575	652	31	0	0
153	PT	430	3372	2114	575	652	31	0	0
153	PV	430	3372	2114	575	652	31	0	0
153	PX	430	3372	2114	575	652	31	0	0
153	PZ	430	3372	2114	575	652	31	0	0
153	QB	430	3372	2114	575	652	31	0	0
153	QD	430	3372	2114	575	652	31	0	0
153	QF	430	3372	2114	575	652	31	0	0
153	QH	430	3372	2114	575	652	31	0	0
153	QJ	430	3372	2114	575	652	31	0	0
153	QL	430	3372	2114	575	652	31	0	0
153	QN	430	3372	2114	575	652	31	0	0
153	QP	430	3372	2114	575	652	31	0	0
153	QR	430	3372	2114	575	652	31	0	0
153	QT	430	3372	2114	575	652	31	0	0
153	QV	430	3372	2114	575	652	31	0	0
153	QX	430	3372	2114	575	652	31	0	0
153	QZ	430	3372	2114	575	652	31	0	0
153	RB	430	3372	2114	575	652	31	0	0
153	RD	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	RF	430	3372	2114	575	652	31	0	0
153	RH	430	3372	2114	575	652	31	0	0
153	RJ	430	3372	2114	575	652	31	0	0
153	RL	430	3372	2114	575	652	31	0	0
153	RN	430	3372	2114	575	652	31	0	0
153	RP	430	3372	2114	575	652	31	0	0
153	RR	430	3372	2114	575	652	31	0	0
153	RT	430	3372	2114	575	652	31	0	0
153	RV	430	3372	2114	575	652	31	0	0
153	RX	430	3372	2114	575	652	31	0	0
153	RZ	430	3372	2114	575	652	31	0	0
153	SB	430	3372	2114	575	652	31	0	0
153	SD	430	3372	2114	575	652	31	0	0
153	SF	430	3372	2114	575	652	31	0	0
153	SH	430	3372	2114	575	652	31	0	0
153	SJ	430	3372	2114	575	652	31	0	0
153	SL	430	3372	2114	575	652	31	0	0
153	SN	430	3372	2114	575	652	31	0	0
153	SP	430	3372	2114	575	652	31	0	0
153	SR	430	3372	2114	575	652	31	0	0
153	ST	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	SV	430	3372	2114	575	652	31	0	0
153	SX	430	3372	2114	575	652	31	0	0
153	SZ	430	3372	2114	575	652	31	0	0
153	TB	430	3372	2114	575	652	31	0	0
153	TD	430	3372	2114	575	652	31	0	0
153	TF	430	3372	2114	575	652	31	0	0
153	TH	430	3372	2114	575	652	31	0	0
153	TJ	430	3372	2114	575	652	31	0	0
153	TL	430	3372	2114	575	652	31	0	0
153	TN	430	3372	2114	575	652	31	0	0
153	TP	430	3372	2114	575	652	31	0	0
153	TS	430	3372	2114	575	652	31	0	0
153	TU	430	3372	2114	575	652	31	0	0
153	TW	430	3372	2114	575	652	31	0	0
153	TY	430	3372	2114	575	652	31	0	0
153	UA	430	3372	2114	575	652	31	0	0
153	UC	430	3372	2114	575	652	31	0	0
153	UE	430	3372	2114	575	652	31	0	0
153	UG	430	3372	2114	575	652	31	0	0
153	UI	430	3372	2114	575	652	31	0	0
153	UK	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	UM	430	3372	2114	575	652	31	0	0
153	UO	430	3372	2114	575	652	31	0	0
153	UQ	430	3372	2114	575	652	31	0	0
153	US	430	3372	2114	575	652	31	0	0
153	UU	430	3372	2114	575	652	31	0	0
153	UX	430	3372	2114	575	652	31	0	0
153	UZ	430	3372	2114	575	652	31	0	0
153	VB	430	3372	2114	575	652	31	0	0
153	VD	430	3372	2114	575	652	31	0	0
153	VF	430	3372	2114	575	652	31	0	0
153	VH	430	3372	2114	575	652	31	0	0
153	VJ	430	3372	2114	575	652	31	0	0
153	VL	430	3372	2114	575	652	31	0	0
153	VN	430	3372	2114	575	652	31	0	0
153	VP	430	3372	2114	575	652	31	0	0
153	VR	430	3372	2114	575	652	31	0	0
153	VT	430	3372	2114	575	652	31	0	0
153	VV	430	3372	2114	575	652	31	0	0
153	VX	430	3372	2114	575	652	31	0	0
153	VZ	430	3372	2114	575	652	31	0	0
153	WB	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	WD	430	3372	2114	575	652	31	0	0
153	WF	430	3372	2114	575	652	31	0	0
153	WH	430	3372	2114	575	652	31	0	0
153	WJ	430	3372	2114	575	652	31	0	0
153	WL	430	3372	2114	575	652	31	0	0
153	WN	430	3372	2114	575	652	31	0	0
153	WP	430	3372	2114	575	652	31	0	0
153	WR	430	3372	2114	575	652	31	0	0
153	WT	430	3372	2114	575	652	31	0	0
153	WV	430	3372	2114	575	652	31	0	0
153	WX	430	3372	2114	575	652	31	0	0
153	WZ	430	3372	2114	575	652	31	0	0
153	XB	430	3372	2114	575	652	31	0	0
153	XD	430	3372	2114	575	652	31	0	0
153	XF	430	3372	2114	575	652	31	0	0
153	XH	430	3372	2114	575	652	31	0	0
153	XJ	430	3372	2114	575	652	31	0	0
153	XL	430	3372	2114	575	652	31	0	0
153	XN	430	3372	2114	575	652	31	0	0
153	XP	430	3372	2114	575	652	31	0	0
153	XR	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
153	XT	430	3372	2114	575	652	31	0	0
153	XV	430	3372	2114	575	652	31	0	0
153	XX	430	3372	2114	575	652	31	0	0
153	XZ	430	3372	2114	575	652	31	0	0
153	YB	430	3372	2114	575	652	31	0	0
153	YD	430	3372	2114	575	652	31	0	0
153	YF	430	3372	2114	575	652	31	0	0
153	YH	430	3372	2114	575	652	31	0	0
153	YK	430	3372	2114	575	652	31	0	0
153	YM	430	3372	2114	575	652	31	0	0
153	YO	430	3372	2114	575	652	31	0	0
153	YQ	430	3372	2114	575	652	31	0	0
153	YS	430	3372	2114	575	652	31	0	0
153	YU	430	3372	2114	575	652	31	0	0
153	YW	430	3372	2114	575	652	31	0	0
153	YY	430	3372	2114	575	652	31	0	0
153	ZA	430	3372	2114	575	652	31	0	0
153	ZC	430	3372	2114	575	652	31	0	0
153	ZE	430	3372	2114	575	652	31	0	0
153	ZG	430	3372	2114	575	652	31	0	0
153	ZI	430	3372	2114	575	652	31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
153	ZK	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	ZM	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	ZO	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	ZQ	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	ZS	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	ZU	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	ZW	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		
153	ZY	430	Total	C	N	O	S	0	0
			3372	2114	575	652	31		

- Molecule 154 is a protein called Tubulin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
154	AB	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AD	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AF	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AH	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AJ	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AL	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AN	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AP	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AR	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AT	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		
154	AV	442	Total	C	N	O	S	0	0
			3421	2158	582	660	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	AX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	AZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	Ab	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	Ad	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	Af	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	Ah	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	Aj	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	Al	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	An	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	Ap	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BB	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BD	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BF	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BH	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BN	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	BX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	BZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CB	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CD	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CF	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CN	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	CZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DB	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DD	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DF	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DH	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	DM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	DY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ES	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	EY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	FC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	FY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	GU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	GW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	HY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	II	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	IO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	IY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JH	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JN	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	JZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	KB	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	KD	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	KF	442	3421	2158	582	660	21	0	0
154	KH	442	3421	2158	582	660	21	0	0
154	KJ	442	3421	2158	582	660	21	0	0
154	KL	442	3421	2158	582	660	21	0	0
154	KN	442	3421	2158	582	660	21	0	0
154	KP	442	3421	2158	582	660	21	0	0
154	KR	442	3421	2158	582	660	21	0	0
154	KT	442	3421	2158	582	660	21	0	0
154	KV	442	3421	2158	582	660	21	0	0
154	KX	442	3421	2158	582	660	21	0	0
154	KZ	442	3421	2158	582	660	21	0	0
154	LB	442	3421	2158	582	660	21	0	0
154	LD	442	3421	2158	582	660	21	0	0
154	LF	442	3421	2158	582	660	21	0	0
154	LH	442	3421	2158	582	660	21	0	0
154	LJ	442	3421	2158	582	660	21	0	0
154	LL	442	3421	2158	582	660	21	0	0
154	LN	442	3421	2158	582	660	21	0	0
154	LP	442	3421	2158	582	660	21	0	0
154	LR	442	3421	2158	582	660	21	0	0
154	LT	442	3421	2158	582	660	21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	LV	442	3421	2158	582	660	21	0	0
154	LX	442	3421	2158	582	660	21	0	0
154	LZ	442	3421	2158	582	660	21	0	0
154	MB	442	3421	2158	582	660	21	0	0
154	MD	442	3421	2158	582	660	21	0	0
154	MF	442	3421	2158	582	660	21	0	0
154	MH	442	3421	2158	582	660	21	0	0
154	MJ	442	3421	2158	582	660	21	0	0
154	ML	442	3421	2158	582	660	21	0	0
154	MN	442	3421	2158	582	660	21	0	0
154	MP	442	3421	2158	582	660	21	0	0
154	MR	442	3421	2158	582	660	21	0	0
154	MT	442	3421	2158	582	660	21	0	0
154	MV	442	3421	2158	582	660	21	0	0
154	MX	442	3421	2158	582	660	21	0	0
154	MZ	442	3421	2158	582	660	21	0	0
154	NB	442	3421	2158	582	660	21	0	0
154	ND	442	3421	2158	582	660	21	0	0
154	NF	442	3421	2158	582	660	21	0	0
154	NH	442	3421	2158	582	660	21	0	0
154	NJ	442	3421	2158	582	660	21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	NL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	NN	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	NP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	NR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	NT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	NV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	NX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	NZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OB	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OD	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OF	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OH	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ON	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	OZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
154	PC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	PY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	QS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	QY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	RY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	SI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	SY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
154	TX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	TZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UB	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UD	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UF	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UH	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UN	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	UY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	VO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	VY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	WY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
154	XE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XI	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XK	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XM	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XO	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XQ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XS	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XU	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XW	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	XY	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YA	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YC	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YE	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YG	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YN	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
154	YV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	YZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZB	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZD	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZF	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZH	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZJ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZL	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZN	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZP	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZR	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZT	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZV	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZX	442	Total 3421	C 2158	N 582	O 660	S 21	0	0
154	ZZ	442	Total 3421	C 2158	N 582	O 660	S 21	0	0

- Molecule 155 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
155	0q	2	Total 2	Zn 2	0
155	5C	2	Total 2	Zn 2	0
155	5E	1	Total 1	Zn 1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Zn	
155	5F	2	2	2	0
155	5H	1	1	1	0
155	5I	2	2	2	0
155	5L	1	1	1	0
155	5M	1	1	1	0
155	7V	2	2	2	0
155	7W	2	2	2	0
155	7X	3	3	3	0
155	7Y	2	2	2	0
155	7Z	2	2	2	0
155	7d	1	1	1	0
155	8A	3	3	3	0
155	8B	2	2	2	0
155	8C	3	3	3	0
155	8D	3	3	3	0
155	8F	1	1	1	0
155	8G	1	1	1	0
155	8J	2	2	2	0
155	8M	1	1	1	0
155	8N	1	1	1	0
155	8O	1	1	1	0

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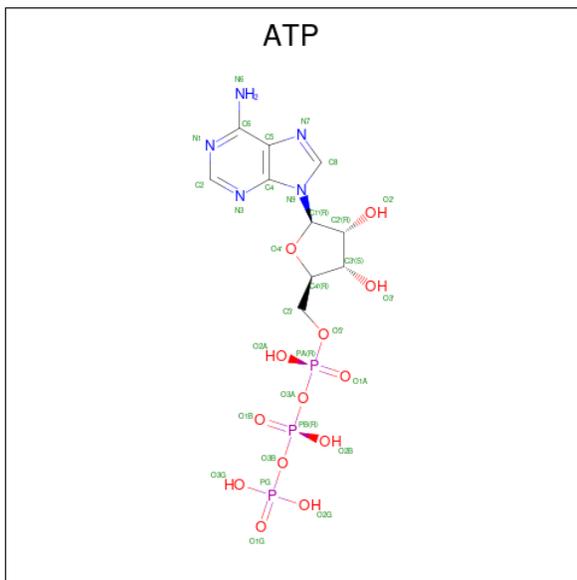
Mol	Chain	Residues	Atoms		AltConf
			Total	Zn	
155	8P	1	1	1	0
155	8Q	1	1	1	0
155	8R	1	1	1	0
155	8S	1	1	1	0
155	8T	1	1	1	0
155	8V	3	3	3	0
155	8Y	3	3	3	0
155	8d	1	1	1	0
155	9B	3	3	3	0
155	9d	1	1	1	0
155	LP	1	1	1	0
155	LV	1	1	1	0
155	MB	1	1	1	0
155	MD	1	1	1	0
155	MN	1	1	1	0
155	MV	1	1	1	0
155	MX	1	1	1	0
155	NF	1	1	1	0
155	NH	1	1	1	0
155	NJ	1	1	1	0
155	NR	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Zn	
155	NV	1	1	1	0

- Molecule 156 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
156	7a	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7a	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7a	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7b	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7b	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7b	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7e	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7e	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7e	1	Total	C	N	O	P	0
			31	10	5	13	3	
156	7f	1	Total	C	N	O	P	0
			31	10	5	13	3	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
156	7f	1	Total 31	C 10	N 5	O 13	P 3	0
156	7f	1	Total 31	C 10	N 5	O 13	P 3	0
156	8e	1	Total 31	C 10	N 5	O 13	P 3	0
156	8e	1	Total 31	C 10	N 5	O 13	P 3	0
156	8e	1	Total 31	C 10	N 5	O 13	P 3	0
156	8f	1	Total 31	C 10	N 5	O 13	P 3	0
156	8f	1	Total 31	C 10	N 5	O 13	P 3	0
156	8f	1	Total 31	C 10	N 5	O 13	P 3	0
156	9e	1	Total 31	C 10	N 5	O 13	P 3	0
156	9e	1	Total 31	C 10	N 5	O 13	P 3	0
156	9e	1	Total 31	C 10	N 5	O 13	P 3	0
156	9f	1	Total 31	C 10	N 5	O 13	P 3	0
156	9f	1	Total 31	C 10	N 5	O 13	P 3	0
156	9f	1	Total 31	C 10	N 5	O 13	P 3	0

- Molecule 157 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	Ac	1	Total 28	C 10	N 5	O 11	P 2	0
158	Ae	1	Total 28	C 10	N 5	O 11	P 2	0
158	Ag	1	Total 28	C 10	N 5	O 11	P 2	0
158	Ai	1	Total 28	C 10	N 5	O 11	P 2	0
158	Ak	1	Total 28	C 10	N 5	O 11	P 2	0
158	Am	1	Total 28	C 10	N 5	O 11	P 2	0
158	Ao	1	Total 28	C 10	N 5	O 11	P 2	0
158	BA	1	Total 28	C 10	N 5	O 11	P 2	0
158	BC	1	Total 28	C 10	N 5	O 11	P 2	0
158	BG	1	Total 28	C 10	N 5	O 11	P 2	0
158	BI	1	Total 28	C 10	N 5	O 11	P 2	0
158	BK	1	Total 28	C 10	N 5	O 11	P 2	0
158	BM	1	Total 28	C 10	N 5	O 11	P 2	0
158	BO	1	Total 28	C 10	N 5	O 11	P 2	0
158	BQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	BS	1	Total 28	C 10	N 5	O 11	P 2	0
158	BU	1	Total 28	C 10	N 5	O 11	P 2	0
158	BW	1	Total 28	C 10	N 5	O 11	P 2	0
158	BY	1	Total 28	C 10	N 5	O 11	P 2	0
158	CA	1	Total 28	C 10	N 5	O 11	P 2	0
158	CC	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	CE	1	Total 28	C 10	N 5	O 11	P 2	0
158	CH	1	Total 28	C 10	N 5	O 11	P 2	0
158	CK	1	Total 28	C 10	N 5	O 11	P 2	0
158	CM	1	Total 28	C 10	N 5	O 11	P 2	0
158	CO	1	Total 28	C 10	N 5	O 11	P 2	0
158	CQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	CS	1	Total 28	C 10	N 5	O 11	P 2	0
158	CU	1	Total 28	C 10	N 5	O 11	P 2	0
158	CW	1	Total 28	C 10	N 5	O 11	P 2	0
158	CY	1	Total 28	C 10	N 5	O 11	P 2	0
158	DA	1	Total 28	C 10	N 5	O 11	P 2	0
158	DC	1	Total 28	C 10	N 5	O 11	P 2	0
158	DE	1	Total 28	C 10	N 5	O 11	P 2	0
158	DG	1	Total 28	C 10	N 5	O 11	P 2	0
158	DI	1	Total 28	C 10	N 5	O 11	P 2	0
158	DK	1	Total 28	C 10	N 5	O 11	P 2	0
158	DN	1	Total 28	C 10	N 5	O 11	P 2	0
158	DP	1	Total 28	C 10	N 5	O 11	P 2	0
158	DR	1	Total 28	C 10	N 5	O 11	P 2	0
158	DT	1	Total 28	C 10	N 5	O 11	P 2	0
158	DV	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	DX	1	28	10	5	11	2	0
158	DZ	1	28	10	5	11	2	0
158	EB	1	28	10	5	11	2	0
158	ED	1	28	10	5	11	2	0
158	EF	1	28	10	5	11	2	0
158	EH	1	28	10	5	11	2	0
158	EJ	1	28	10	5	11	2	0
158	EL	1	28	10	5	11	2	0
158	EN	1	28	10	5	11	2	0
158	ER	1	28	10	5	11	2	0
158	ET	1	28	10	5	11	2	0
158	EV	1	28	10	5	11	2	0
158	EX	1	28	10	5	11	2	0
158	EZ	1	28	10	5	11	2	0
158	FB	1	28	10	5	11	2	0
158	FD	1	28	10	5	11	2	0
158	FF	1	28	10	5	11	2	0
158	FH	1	28	10	5	11	2	0
158	FJ	1	28	10	5	11	2	0
158	FL	1	28	10	5	11	2	0
158	FN	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	FP	1	28	10	5	11	2	0
158	FR	1	28	10	5	11	2	0
158	FT	1	28	10	5	11	2	0
158	FV	1	28	10	5	11	2	0
158	FX	1	28	10	5	11	2	0
158	FZ	1	28	10	5	11	2	0
158	GB	1	28	10	5	11	2	0
158	GD	1	28	10	5	11	2	0
158	GF	1	28	10	5	11	2	0
158	GH	1	28	10	5	11	2	0
158	GJ	1	28	10	5	11	2	0
158	GL	1	28	10	5	11	2	0
158	GN	1	28	10	5	11	2	0
158	GP	1	28	10	5	11	2	0
158	GR	1	28	10	5	11	2	0
158	GT	1	28	10	5	11	2	0
158	GV	1	28	10	5	11	2	0
158	GX	1	28	10	5	11	2	0
158	GZ	1	28	10	5	11	2	0
158	HB	1	28	10	5	11	2	0
158	HD	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	HF	1	28	10	5	11	2	0
158	HH	1	28	10	5	11	2	0
158	HJ	1	28	10	5	11	2	0
158	HL	1	28	10	5	11	2	0
158	HN	1	28	10	5	11	2	0
158	HP	1	28	10	5	11	2	0
158	HR	1	28	10	5	11	2	0
158	HT	1	28	10	5	11	2	0
158	HV	1	28	10	5	11	2	0
158	HX	1	28	10	5	11	2	0
158	HZ	1	28	10	5	11	2	0
158	IB	1	28	10	5	11	2	0
158	ID	1	28	10	5	11	2	0
158	IF	1	28	10	5	11	2	0
158	IH	1	28	10	5	11	2	0
158	IJ	1	28	10	5	11	2	0
158	IL	1	28	10	5	11	2	0
158	IN	1	28	10	5	11	2	0
158	IP	1	28	10	5	11	2	0
158	IR	1	28	10	5	11	2	0
158	IT	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	IV	1	Total 28	C 10	N 5	O 11	P 2	0
158	IX	1	Total 28	C 10	N 5	O 11	P 2	0
158	IZ	1	Total 28	C 10	N 5	O 11	P 2	0
158	JB	1	Total 28	C 10	N 5	O 11	P 2	0
158	JD	1	Total 28	C 10	N 5	O 11	P 2	0
158	JF	1	Total 28	C 10	N 5	O 11	P 2	0
158	JG	1	Total 28	C 10	N 5	O 11	P 2	0
158	JI	1	Total 28	C 10	N 5	O 11	P 2	0
158	JK	1	Total 28	C 10	N 5	O 11	P 2	0
158	JM	1	Total 28	C 10	N 5	O 11	P 2	0
158	JO	1	Total 28	C 10	N 5	O 11	P 2	0
158	JQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	JS	1	Total 28	C 10	N 5	O 11	P 2	0
158	JU	1	Total 28	C 10	N 5	O 11	P 2	0
158	JW	1	Total 28	C 10	N 5	O 11	P 2	0
158	JY	1	Total 28	C 10	N 5	O 11	P 2	0
158	KA	1	Total 28	C 10	N 5	O 11	P 2	0
158	KC	1	Total 28	C 10	N 5	O 11	P 2	0
158	KE	1	Total 28	C 10	N 5	O 11	P 2	0
158	KG	1	Total 28	C 10	N 5	O 11	P 2	0
158	KI	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	KK	1	Total 28	C 10	N 5	O 11	P 2	0
158	KM	1	Total 28	C 10	N 5	O 11	P 2	0
158	KO	1	Total 28	C 10	N 5	O 11	P 2	0
158	KQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	KS	1	Total 28	C 10	N 5	O 11	P 2	0
158	KU	1	Total 28	C 10	N 5	O 11	P 2	0
158	KW	1	Total 28	C 10	N 5	O 11	P 2	0
158	KY	1	Total 28	C 10	N 5	O 11	P 2	0
158	LA	1	Total 28	C 10	N 5	O 11	P 2	0
158	LC	1	Total 28	C 10	N 5	O 11	P 2	0
158	LE	1	Total 28	C 10	N 5	O 11	P 2	0
158	LG	1	Total 28	C 10	N 5	O 11	P 2	0
158	LI	1	Total 28	C 10	N 5	O 11	P 2	0
158	LK	1	Total 28	C 10	N 5	O 11	P 2	0
158	LM	1	Total 28	C 10	N 5	O 11	P 2	0
158	LO	1	Total 28	C 10	N 5	O 11	P 2	0
158	LQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	LS	1	Total 28	C 10	N 5	O 11	P 2	0
158	LU	1	Total 28	C 10	N 5	O 11	P 2	0
158	LW	1	Total 28	C 10	N 5	O 11	P 2	0
158	LY	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	MA	1	Total 28	C 10	N 5	O 11	P 2	0
158	MC	1	Total 28	C 10	N 5	O 11	P 2	0
158	ME	1	Total 28	C 10	N 5	O 11	P 2	0
158	MG	1	Total 28	C 10	N 5	O 11	P 2	0
158	MI	1	Total 28	C 10	N 5	O 11	P 2	0
158	MK	1	Total 28	C 10	N 5	O 11	P 2	0
158	MM	1	Total 28	C 10	N 5	O 11	P 2	0
158	MO	1	Total 28	C 10	N 5	O 11	P 2	0
158	MQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	MU	1	Total 28	C 10	N 5	O 11	P 2	0
158	MW	1	Total 28	C 10	N 5	O 11	P 2	0
158	MY	1	Total 28	C 10	N 5	O 11	P 2	0
158	NA	1	Total 28	C 10	N 5	O 11	P 2	0
158	NC	1	Total 28	C 10	N 5	O 11	P 2	0
158	NE	1	Total 28	C 10	N 5	O 11	P 2	0
158	NG	1	Total 28	C 10	N 5	O 11	P 2	0
158	NI	1	Total 28	C 10	N 5	O 11	P 2	0
158	NK	1	Total 28	C 10	N 5	O 11	P 2	0
158	NM	1	Total 28	C 10	N 5	O 11	P 2	0
158	NO	1	Total 28	C 10	N 5	O 11	P 2	0
158	NQ	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	NS	1	28	10	5	11	2	0
158	NU	1	28	10	5	11	2	0
158	NY	1	28	10	5	11	2	0
158	OA	1	28	10	5	11	2	0
158	OC	1	28	10	5	11	2	0
158	OE	1	28	10	5	11	2	0
158	OG	1	28	10	5	11	2	0
158	OI	1	28	10	5	11	2	0
158	OK	1	28	10	5	11	2	0
158	OM	1	28	10	5	11	2	0
158	OO	1	28	10	5	11	2	0
158	OQ	1	28	10	5	11	2	0
158	OS	1	28	10	5	11	2	0
158	OU	1	28	10	5	11	2	0
158	OW	1	28	10	5	11	2	0
158	OY	1	28	10	5	11	2	0
158	PA	1	28	10	5	11	2	0
158	PD	1	28	10	5	11	2	0
158	PF	1	28	10	5	11	2	0
158	PH	1	28	10	5	11	2	0
158	PJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	PL	1	Total 28	C 10	N 5	O 11	P 2	0
158	PN	1	Total 28	C 10	N 5	O 11	P 2	0
158	PP	1	Total 28	C 10	N 5	O 11	P 2	0
158	PR	1	Total 28	C 10	N 5	O 11	P 2	0
158	PT	1	Total 28	C 10	N 5	O 11	P 2	0
158	PV	1	Total 28	C 10	N 5	O 11	P 2	0
158	PX	1	Total 28	C 10	N 5	O 11	P 2	0
158	PZ	1	Total 28	C 10	N 5	O 11	P 2	0
158	QB	1	Total 28	C 10	N 5	O 11	P 2	0
158	QD	1	Total 28	C 10	N 5	O 11	P 2	0
158	QF	1	Total 28	C 10	N 5	O 11	P 2	0
158	QH	1	Total 28	C 10	N 5	O 11	P 2	0
158	QJ	1	Total 28	C 10	N 5	O 11	P 2	0
158	QL	1	Total 28	C 10	N 5	O 11	P 2	0
158	QN	1	Total 28	C 10	N 5	O 11	P 2	0
158	QP	1	Total 28	C 10	N 5	O 11	P 2	0
158	QR	1	Total 28	C 10	N 5	O 11	P 2	0
158	QT	1	Total 28	C 10	N 5	O 11	P 2	0
158	QV	1	Total 28	C 10	N 5	O 11	P 2	0
158	QX	1	Total 28	C 10	N 5	O 11	P 2	0
158	QZ	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	RB	1	Total 28	C 10	N 5	O 11	P 2	0
158	RD	1	Total 28	C 10	N 5	O 11	P 2	0
158	RF	1	Total 28	C 10	N 5	O 11	P 2	0
158	RH	1	Total 28	C 10	N 5	O 11	P 2	0
158	RJ	1	Total 28	C 10	N 5	O 11	P 2	0
158	RL	1	Total 28	C 10	N 5	O 11	P 2	0
158	RN	1	Total 28	C 10	N 5	O 11	P 2	0
158	RP	1	Total 28	C 10	N 5	O 11	P 2	0
158	RR	1	Total 28	C 10	N 5	O 11	P 2	0
158	RT	1	Total 28	C 10	N 5	O 11	P 2	0
158	RV	1	Total 28	C 10	N 5	O 11	P 2	0
158	RX	1	Total 28	C 10	N 5	O 11	P 2	0
158	RZ	1	Total 28	C 10	N 5	O 11	P 2	0
158	SB	1	Total 28	C 10	N 5	O 11	P 2	0
158	SD	1	Total 28	C 10	N 5	O 11	P 2	0
158	SF	1	Total 28	C 10	N 5	O 11	P 2	0
158	SH	1	Total 28	C 10	N 5	O 11	P 2	0
158	SJ	1	Total 28	C 10	N 5	O 11	P 2	0
158	SL	1	Total 28	C 10	N 5	O 11	P 2	0
158	SN	1	Total 28	C 10	N 5	O 11	P 2	0
158	SP	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	SR	1	28	10	5	11	2	0
158	ST	1	28	10	5	11	2	0
158	SV	1	28	10	5	11	2	0
158	SX	1	28	10	5	11	2	0
158	SZ	1	28	10	5	11	2	0
158	TB	1	28	10	5	11	2	0
158	TD	1	28	10	5	11	2	0
158	TF	1	28	10	5	11	2	0
158	TH	1	28	10	5	11	2	0
158	TJ	1	28	10	5	11	2	0
158	TL	1	28	10	5	11	2	0
158	TN	1	28	10	5	11	2	0
158	TP	1	28	10	5	11	2	0
158	TS	1	28	10	5	11	2	0
158	TU	1	28	10	5	11	2	0
158	TW	1	28	10	5	11	2	0
158	TY	1	28	10	5	11	2	0
158	UA	1	28	10	5	11	2	0
158	UC	1	28	10	5	11	2	0
158	UE	1	28	10	5	11	2	0
158	UG	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	UI	1	Total 28	C 10	N 5	O 11	P 2	0
158	UK	1	Total 28	C 10	N 5	O 11	P 2	0
158	UM	1	Total 28	C 10	N 5	O 11	P 2	0
158	UO	1	Total 28	C 10	N 5	O 11	P 2	0
158	UQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	US	1	Total 28	C 10	N 5	O 11	P 2	0
158	UU	1	Total 28	C 10	N 5	O 11	P 2	0
158	UX	1	Total 28	C 10	N 5	O 11	P 2	0
158	UZ	1	Total 28	C 10	N 5	O 11	P 2	0
158	VB	1	Total 28	C 10	N 5	O 11	P 2	0
158	VD	1	Total 28	C 10	N 5	O 11	P 2	0
158	VF	1	Total 28	C 10	N 5	O 11	P 2	0
158	VH	1	Total 28	C 10	N 5	O 11	P 2	0
158	VJ	1	Total 28	C 10	N 5	O 11	P 2	0
158	VL	1	Total 28	C 10	N 5	O 11	P 2	0
158	VN	1	Total 28	C 10	N 5	O 11	P 2	0
158	VP	1	Total 28	C 10	N 5	O 11	P 2	0
158	VR	1	Total 28	C 10	N 5	O 11	P 2	0
158	VT	1	Total 28	C 10	N 5	O 11	P 2	0
158	VV	1	Total 28	C 10	N 5	O 11	P 2	0
158	VX	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	VZ	1	28	10	5	11	2	0
158	WB	1	28	10	5	11	2	0
158	WD	1	28	10	5	11	2	0
158	WF	1	28	10	5	11	2	0
158	WH	1	28	10	5	11	2	0
158	WJ	1	28	10	5	11	2	0
158	WL	1	28	10	5	11	2	0
158	WN	1	28	10	5	11	2	0
158	WP	1	28	10	5	11	2	0
158	WR	1	28	10	5	11	2	0
158	WT	1	28	10	5	11	2	0
158	WV	1	28	10	5	11	2	0
158	WX	1	28	10	5	11	2	0
158	WZ	1	28	10	5	11	2	0
158	XB	1	28	10	5	11	2	0
158	XD	1	28	10	5	11	2	0
158	XF	1	28	10	5	11	2	0
158	XH	1	28	10	5	11	2	0
158	XJ	1	28	10	5	11	2	0
158	XL	1	28	10	5	11	2	0
158	XN	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	XP	1	Total 28	C 10	N 5	O 11	P 2	0
158	XR	1	Total 28	C 10	N 5	O 11	P 2	0
158	XT	1	Total 28	C 10	N 5	O 11	P 2	0
158	XV	1	Total 28	C 10	N 5	O 11	P 2	0
158	XX	1	Total 28	C 10	N 5	O 11	P 2	0
158	XZ	1	Total 28	C 10	N 5	O 11	P 2	0
158	YB	1	Total 28	C 10	N 5	O 11	P 2	0
158	YD	1	Total 28	C 10	N 5	O 11	P 2	0
158	YF	1	Total 28	C 10	N 5	O 11	P 2	0
158	YH	1	Total 28	C 10	N 5	O 11	P 2	0
158	YK	1	Total 28	C 10	N 5	O 11	P 2	0
158	YM	1	Total 28	C 10	N 5	O 11	P 2	0
158	YO	1	Total 28	C 10	N 5	O 11	P 2	0
158	YQ	1	Total 28	C 10	N 5	O 11	P 2	0
158	YS	1	Total 28	C 10	N 5	O 11	P 2	0
158	YU	1	Total 28	C 10	N 5	O 11	P 2	0
158	YW	1	Total 28	C 10	N 5	O 11	P 2	0
158	YY	1	Total 28	C 10	N 5	O 11	P 2	0
158	ZA	1	Total 28	C 10	N 5	O 11	P 2	0
158	ZC	1	Total 28	C 10	N 5	O 11	P 2	0
158	ZE	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
158	ZG	1	28	10	5	11	2	0
158	ZI	1	28	10	5	11	2	0
158	ZK	1	28	10	5	11	2	0
158	ZM	1	28	10	5	11	2	0
158	ZO	1	28	10	5	11	2	0
158	ZQ	1	28	10	5	11	2	0
158	ZS	1	28	10	5	11	2	0
158	ZU	1	28	10	5	11	2	0
158	ZW	1	28	10	5	11	2	0
158	ZY	1	28	10	5	11	2	0

- Molecule 159 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	AB	1	1	1	0
159	AD	1	1	1	0
159	AF	1	1	1	0
159	AH	1	1	1	0
159	AJ	1	1	1	0
159	AL	1	1	1	0
159	AN	1	1	1	0
159	AP	1	1	1	0
159	AR	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	AT	1	1	1	0
159	AV	1	1	1	0
159	AX	1	1	1	0
159	AZ	1	1	1	0
159	Ab	1	1	1	0
159	Ad	1	1	1	0
159	Af	1	1	1	0
159	Ah	1	1	1	0
159	Aj	1	1	1	0
159	Al	1	1	1	0
159	An	1	1	1	0
159	Ap	1	1	1	0
159	BB	1	1	1	0
159	BD	1	1	1	0
159	BF	1	1	1	0
159	BH	1	1	1	0
159	BJ	1	1	1	0
159	BL	1	1	1	0
159	BN	1	1	1	0
159	BP	1	1	1	0
159	BR	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	BT	1	1	1	0
159	BV	1	1	1	0
159	BX	1	1	1	0
159	BZ	1	1	1	0
159	CB	1	1	1	0
159	CD	1	1	1	0
159	CF	1	1	1	0
159	CI	1	1	1	0
159	CJ	1	1	1	0
159	CL	1	1	1	0
159	CN	1	1	1	0
159	CP	1	1	1	0
159	CR	1	1	1	0
159	CT	1	1	1	0
159	CV	1	1	1	0
159	CX	1	1	1	0
159	CZ	1	1	1	0
159	DB	1	1	1	0
159	DD	1	1	1	0
159	DF	1	1	1	0
159	DH	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	DJ	1	1	1	0
159	DL	1	1	1	0
159	DM	1	1	1	0
159	DO	1	1	1	0
159	DQ	1	1	1	0
159	DS	1	1	1	0
159	DU	1	1	1	0
159	DW	1	1	1	0
159	DY	1	1	1	0
159	EA	1	1	1	0
159	EC	1	1	1	0
159	EE	1	1	1	0
159	EG	1	1	1	0
159	EI	1	1	1	0
159	EK	1	1	1	0
159	EM	1	1	1	0
159	EO	1	1	1	0
159	EQ	1	1	1	0
159	ES	1	1	1	0
159	EU	1	1	1	0
159	EW	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	EZ	1	1	1	0
159	FA	1	1	1	0
159	FC	1	1	1	0
159	FE	1	1	1	0
159	FG	1	1	1	0
159	FI	1	1	1	0
159	FL	1	1	1	0
159	FM	1	1	1	0
159	FO	1	1	1	0
159	FQ	1	1	1	0
159	FS	1	1	1	0
159	FW	1	1	1	0
159	FY	1	1	1	0
159	GA	1	1	1	0
159	GC	1	1	1	0
159	GE	1	1	1	0
159	GG	1	1	1	0
159	GI	1	1	1	0
159	GK	1	1	1	0
159	GM	1	1	1	0
159	GO	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	GQ	1	1	1	0
159	GS	1	1	1	0
159	GU	1	1	1	0
159	GW	1	1	1	0
159	HA	1	1	1	0
159	HC	1	1	1	0
159	HE	1	1	1	0
159	HG	1	1	1	0
159	HI	1	1	1	0
159	HK	1	1	1	0
159	HM	1	1	1	0
159	HO	1	1	1	0
159	HQ	1	1	1	0
159	HS	1	1	1	0
159	HU	1	1	1	0
159	HW	1	1	1	0
159	HY	1	1	1	0
159	IA	1	1	1	0
159	IE	1	1	1	0
159	IG	1	1	1	0
159	II	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	IK	1	1	1	0
159	IM	1	1	1	0
159	IO	1	1	1	0
159	IQ	1	1	1	0
159	IS	1	1	1	0
159	IU	1	1	1	0
159	IW	1	1	1	0
159	IY	1	1	1	0
159	JA	1	1	1	0
159	JC	1	1	1	0
159	JE	1	1	1	0
159	JH	1	1	1	0
159	JJ	1	1	1	0
159	JL	1	1	1	0
159	JN	1	1	1	0
159	JP	1	1	1	0
159	JR	1	1	1	0
159	JT	1	1	1	0
159	JV	1	1	1	0
159	JX	1	1	1	0
159	JZ	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	KB	1	1	1	0
159	KD	1	1	1	0
159	KF	1	1	1	0
159	KH	1	1	1	0
159	KJ	1	1	1	0
159	KL	1	1	1	0
159	KN	1	1	1	0
159	KP	1	1	1	0
159	KR	1	1	1	0
159	KT	1	1	1	0
159	KV	1	1	1	0
159	KX	1	1	1	0
159	KZ	1	1	1	0
159	LB	1	1	1	0
159	LD	1	1	1	0
159	LF	1	1	1	0
159	LH	1	1	1	0
159	LJ	1	1	1	0
159	LL	1	1	1	0
159	LN	1	1	1	0
159	LP	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	LR	1	1	1	0
159	LT	1	1	1	0
159	LV	1	1	1	0
159	LX	1	1	1	0
159	LZ	1	1	1	0
159	MB	1	1	1	0
159	MD	1	1	1	0
159	MF	1	1	1	0
159	MH	1	1	1	0
159	MJ	1	1	1	0
159	ML	1	1	1	0
159	MN	1	1	1	0
159	MP	1	1	1	0
159	MR	1	1	1	0
159	MT	1	1	1	0
159	MV	1	1	1	0
159	MX	1	1	1	0
159	MZ	1	1	1	0
159	NB	1	1	1	0
159	ND	1	1	1	0
159	NF	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	NH	1	1	1	0
159	NJ	1	1	1	0
159	NL	1	1	1	0
159	NN	1	1	1	0
159	NP	1	1	1	0
159	NR	1	1	1	0
159	NT	1	1	1	0
159	NV	1	1	1	0
159	NX	1	1	1	0
159	NZ	1	1	1	0
159	OB	1	1	1	0
159	OD	1	1	1	0
159	OF	1	1	1	0
159	OH	1	1	1	0
159	OJ	1	1	1	0
159	OL	1	1	1	0
159	ON	1	1	1	0
159	OP	1	1	1	0
159	OR	1	1	1	0
159	OT	1	1	1	0
159	OV	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	OX	1	1	1	0
159	OZ	1	1	1	0
159	PC	1	1	1	0
159	PE	1	1	1	0
159	PG	1	1	1	0
159	PI	1	1	1	0
159	PK	1	1	1	0
159	PM	1	1	1	0
159	PO	1	1	1	0
159	PQ	1	1	1	0
159	PS	1	1	1	0
159	PU	1	1	1	0
159	PW	1	1	1	0
159	PY	1	1	1	0
159	QA	1	1	1	0
159	QC	1	1	1	0
159	QE	1	1	1	0
159	QG	1	1	1	0
159	QI	1	1	1	0
159	QK	1	1	1	0
159	QM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	QO	1	1	1	0
159	QQ	1	1	1	0
159	QS	1	1	1	0
159	QU	1	1	1	0
159	QW	1	1	1	0
159	QY	1	1	1	0
159	RA	1	1	1	0
159	RC	1	1	1	0
159	RE	1	1	1	0
159	RG	1	1	1	0
159	RI	1	1	1	0
159	RK	1	1	1	0
159	RM	1	1	1	0
159	RO	1	1	1	0
159	RQ	1	1	1	0
159	RS	1	1	1	0
159	RU	1	1	1	0
159	RW	1	1	1	0
159	RY	1	1	1	0
159	SA	1	1	1	0
159	SC	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	SE	1	1	1	0
159	SG	1	1	1	0
159	SI	1	1	1	0
159	SK	1	1	1	0
159	SM	1	1	1	0
159	SO	1	1	1	0
159	SQ	1	1	1	0
159	SS	1	1	1	0
159	SU	1	1	1	0
159	SW	1	1	1	0
159	SY	1	1	1	0
159	TA	1	1	1	0
159	TC	1	1	1	0
159	TE	1	1	1	0
159	TG	1	1	1	0
159	TI	1	1	1	0
159	TK	1	1	1	0
159	TM	1	1	1	0
159	TO	1	1	1	0
159	TQ	1	1	1	0
159	TR	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	TT	1	1	1	0
159	TV	1	1	1	0
159	TX	1	1	1	0
159	TZ	1	1	1	0
159	UB	1	1	1	0
159	UD	1	1	1	0
159	UF	1	1	1	0
159	UH	1	1	1	0
159	UJ	1	1	1	0
159	UL	1	1	1	0
159	UN	1	1	1	0
159	UP	1	1	1	0
159	UR	1	1	1	0
159	UT	1	1	1	0
159	UW	1	1	1	0
159	UY	1	1	1	0
159	VA	1	1	1	0
159	VC	1	1	1	0
159	VE	1	1	1	0
159	VG	1	1	1	0
159	VI	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	VK	1	1	1	0
159	VM	1	1	1	0
159	VO	1	1	1	0
159	VQ	1	1	1	0
159	VS	1	1	1	0
159	VU	1	1	1	0
159	VW	1	1	1	0
159	VY	1	1	1	0
159	WA	1	1	1	0
159	WC	1	1	1	0
159	WE	1	1	1	0
159	WG	1	1	1	0
159	WI	1	1	1	0
159	WK	1	1	1	0
159	WM	1	1	1	0
159	WO	1	1	1	0
159	WQ	1	1	1	0
159	WS	1	1	1	0
159	WU	1	1	1	0
159	WW	1	1	1	0
159	WY	1	1	1	0

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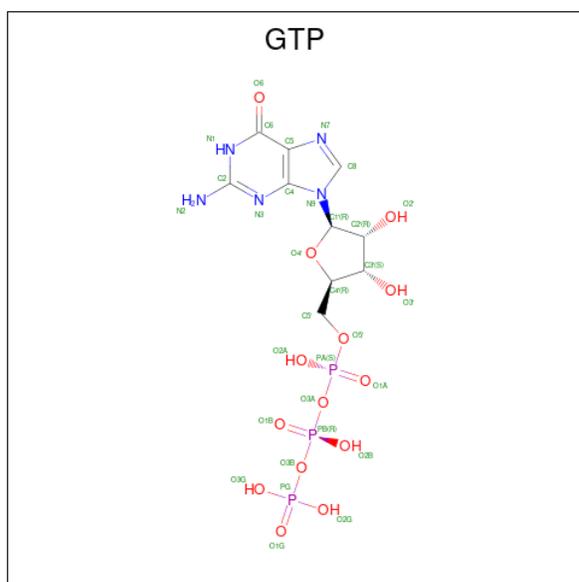
Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
159	XA	1	1	1	0
159	XC	1	1	1	0
159	XE	1	1	1	0
159	XG	1	1	1	0
159	XI	1	1	1	0
159	XK	1	1	1	0
159	XM	1	1	1	0
159	XO	1	1	1	0
159	XQ	1	1	1	0
159	XS	1	1	1	0
159	XU	1	1	1	0
159	XW	1	1	1	0
159	XY	1	1	1	0
159	YA	1	1	1	0
159	YC	1	1	1	0
159	YE	1	1	1	0
159	YG	1	1	1	0
159	YJ	1	1	1	0
159	YL	1	1	1	0
159	YN	1	1	1	0
159	YP	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
159	YR	1	Total 1	Mg 1	0
159	YT	1	Total 1	Mg 1	0
159	YV	1	Total 1	Mg 1	0
159	YX	1	Total 1	Mg 1	0
159	YZ	1	Total 1	Mg 1	0
159	ZB	1	Total 1	Mg 1	0
159	ZD	1	Total 1	Mg 1	0
159	ZF	1	Total 1	Mg 1	0
159	ZH	1	Total 1	Mg 1	0
159	ZJ	1	Total 1	Mg 1	0
159	ZL	1	Total 1	Mg 1	0
159	ZN	1	Total 1	Mg 1	0
159	ZP	1	Total 1	Mg 1	0
159	ZR	1	Total 1	Mg 1	0
159	ZT	1	Total 1	Mg 1	0
159	ZV	1	Total 1	Mg 1	0
159	ZX	1	Total 1	Mg 1	0
159	ZZ	1	Total 1	Mg 1	0

- Molecule 160 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	AB	1	Total 32	C 10	N 5	O 14	P 3	0
160	AD	1	Total 32	C 10	N 5	O 14	P 3	0
160	AF	1	Total 32	C 10	N 5	O 14	P 3	0
160	AH	1	Total 32	C 10	N 5	O 14	P 3	0
160	AJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	AL	1	Total 32	C 10	N 5	O 14	P 3	0
160	AN	1	Total 32	C 10	N 5	O 14	P 3	0
160	AP	1	Total 32	C 10	N 5	O 14	P 3	0
160	AR	1	Total 32	C 10	N 5	O 14	P 3	0
160	AT	1	Total 32	C 10	N 5	O 14	P 3	0
160	AV	1	Total 32	C 10	N 5	O 14	P 3	0
160	AX	1	Total 32	C 10	N 5	O 14	P 3	0
160	AZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	Ab	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
160	Ad	1	Total 32	C 10	N 5	O 14	P 3	0
160	Af	1	Total 32	C 10	N 5	O 14	P 3	0
160	Ah	1	Total 32	C 10	N 5	O 14	P 3	0
160	Aj	1	Total 32	C 10	N 5	O 14	P 3	0
160	Al	1	Total 32	C 10	N 5	O 14	P 3	0
160	An	1	Total 32	C 10	N 5	O 14	P 3	0
160	Ap	1	Total 32	C 10	N 5	O 14	P 3	0
160	BB	1	Total 32	C 10	N 5	O 14	P 3	0
160	BD	1	Total 32	C 10	N 5	O 14	P 3	0
160	BF	1	Total 32	C 10	N 5	O 14	P 3	0
160	BH	1	Total 32	C 10	N 5	O 14	P 3	0
160	BJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	BL	1	Total 32	C 10	N 5	O 14	P 3	0
160	BN	1	Total 32	C 10	N 5	O 14	P 3	0
160	BP	1	Total 32	C 10	N 5	O 14	P 3	0
160	BR	1	Total 32	C 10	N 5	O 14	P 3	0
160	BT	1	Total 32	C 10	N 5	O 14	P 3	0
160	BV	1	Total 32	C 10	N 5	O 14	P 3	0
160	BX	1	Total 32	C 10	N 5	O 14	P 3	0
160	BZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	CB	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	CD	1	Total 32	C 10	N 5	O 14	P 3	0
160	CF	1	Total 32	C 10	N 5	O 14	P 3	0
160	CI	1	Total 32	C 10	N 5	O 14	P 3	0
160	CJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	CL	1	Total 32	C 10	N 5	O 14	P 3	0
160	CN	1	Total 32	C 10	N 5	O 14	P 3	0
160	CP	1	Total 32	C 10	N 5	O 14	P 3	0
160	CR	1	Total 32	C 10	N 5	O 14	P 3	0
160	CT	1	Total 32	C 10	N 5	O 14	P 3	0
160	CV	1	Total 32	C 10	N 5	O 14	P 3	0
160	CX	1	Total 32	C 10	N 5	O 14	P 3	0
160	CZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	DB	1	Total 32	C 10	N 5	O 14	P 3	0
160	DD	1	Total 32	C 10	N 5	O 14	P 3	0
160	DF	1	Total 32	C 10	N 5	O 14	P 3	0
160	DH	1	Total 32	C 10	N 5	O 14	P 3	0
160	DJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	DL	1	Total 32	C 10	N 5	O 14	P 3	0
160	DM	1	Total 32	C 10	N 5	O 14	P 3	0
160	DO	1	Total 32	C 10	N 5	O 14	P 3	0
160	DQ	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	DS	1	Total 32	C 10	N 5	O 14	P 3	0
160	DU	1	Total 32	C 10	N 5	O 14	P 3	0
160	DW	1	Total 32	C 10	N 5	O 14	P 3	0
160	DY	1	Total 32	C 10	N 5	O 14	P 3	0
160	EA	1	Total 32	C 10	N 5	O 14	P 3	0
160	EC	1	Total 32	C 10	N 5	O 14	P 3	0
160	EE	1	Total 32	C 10	N 5	O 14	P 3	0
160	EG	1	Total 32	C 10	N 5	O 14	P 3	0
160	EI	1	Total 32	C 10	N 5	O 14	P 3	0
160	EK	1	Total 32	C 10	N 5	O 14	P 3	0
160	EM	1	Total 32	C 10	N 5	O 14	P 3	0
160	EO	1	Total 32	C 10	N 5	O 14	P 3	0
160	EQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	ES	1	Total 32	C 10	N 5	O 14	P 3	0
160	EU	1	Total 32	C 10	N 5	O 14	P 3	0
160	EW	1	Total 32	C 10	N 5	O 14	P 3	0
160	EY	1	Total 32	C 10	N 5	O 14	P 3	0
160	FA	1	Total 32	C 10	N 5	O 14	P 3	0
160	FC	1	Total 32	C 10	N 5	O 14	P 3	0
160	FE	1	Total 32	C 10	N 5	O 14	P 3	0
160	FG	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	FI	1	Total 32	C 10	N 5	O 14	P 3	0
160	FK	1	Total 32	C 10	N 5	O 14	P 3	0
160	FM	1	Total 32	C 10	N 5	O 14	P 3	0
160	FO	1	Total 32	C 10	N 5	O 14	P 3	0
160	FQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	FS	1	Total 32	C 10	N 5	O 14	P 3	0
160	FW	1	Total 32	C 10	N 5	O 14	P 3	0
160	FY	1	Total 32	C 10	N 5	O 14	P 3	0
160	GA	1	Total 32	C 10	N 5	O 14	P 3	0
160	GC	1	Total 32	C 10	N 5	O 14	P 3	0
160	GE	1	Total 32	C 10	N 5	O 14	P 3	0
160	GG	1	Total 32	C 10	N 5	O 14	P 3	0
160	GI	1	Total 32	C 10	N 5	O 14	P 3	0
160	GK	1	Total 32	C 10	N 5	O 14	P 3	0
160	GM	1	Total 32	C 10	N 5	O 14	P 3	0
160	GO	1	Total 32	C 10	N 5	O 14	P 3	0
160	GQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	GS	1	Total 32	C 10	N 5	O 14	P 3	0
160	GU	1	Total 32	C 10	N 5	O 14	P 3	0
160	GW	1	Total 32	C 10	N 5	O 14	P 3	0
160	HA	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	HC	1	Total 32	C 10	N 5	O 14	P 3	0
160	HE	1	Total 32	C 10	N 5	O 14	P 3	0
160	HG	1	Total 32	C 10	N 5	O 14	P 3	0
160	HI	1	Total 32	C 10	N 5	O 14	P 3	0
160	HK	1	Total 32	C 10	N 5	O 14	P 3	0
160	HM	1	Total 32	C 10	N 5	O 14	P 3	0
160	HO	1	Total 32	C 10	N 5	O 14	P 3	0
160	HQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	HS	1	Total 32	C 10	N 5	O 14	P 3	0
160	HU	1	Total 32	C 10	N 5	O 14	P 3	0
160	HW	1	Total 32	C 10	N 5	O 14	P 3	0
160	HY	1	Total 32	C 10	N 5	O 14	P 3	0
160	IA	1	Total 32	C 10	N 5	O 14	P 3	0
160	IE	1	Total 32	C 10	N 5	O 14	P 3	0
160	IG	1	Total 32	C 10	N 5	O 14	P 3	0
160	II	1	Total 32	C 10	N 5	O 14	P 3	0
160	IK	1	Total 32	C 10	N 5	O 14	P 3	0
160	IM	1	Total 32	C 10	N 5	O 14	P 3	0
160	IO	1	Total 32	C 10	N 5	O 14	P 3	0
160	IQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	IS	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	IU	1	Total 32	C 10	N 5	O 14	P 3	0
160	IW	1	Total 32	C 10	N 5	O 14	P 3	0
160	IY	1	Total 32	C 10	N 5	O 14	P 3	0
160	JA	1	Total 32	C 10	N 5	O 14	P 3	0
160	JC	1	Total 32	C 10	N 5	O 14	P 3	0
160	JE	1	Total 32	C 10	N 5	O 14	P 3	0
160	JH	1	Total 32	C 10	N 5	O 14	P 3	0
160	JJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	JL	1	Total 32	C 10	N 5	O 14	P 3	0
160	JN	1	Total 32	C 10	N 5	O 14	P 3	0
160	JP	1	Total 32	C 10	N 5	O 14	P 3	0
160	JR	1	Total 32	C 10	N 5	O 14	P 3	0
160	JT	1	Total 32	C 10	N 5	O 14	P 3	0
160	JV	1	Total 32	C 10	N 5	O 14	P 3	0
160	JX	1	Total 32	C 10	N 5	O 14	P 3	0
160	JZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	KB	1	Total 32	C 10	N 5	O 14	P 3	0
160	KD	1	Total 32	C 10	N 5	O 14	P 3	0
160	KF	1	Total 32	C 10	N 5	O 14	P 3	0
160	KH	1	Total 32	C 10	N 5	O 14	P 3	0
160	KJ	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	KL	1	Total 32	C 10	N 5	O 14	P 3	0
160	KN	1	Total 32	C 10	N 5	O 14	P 3	0
160	KP	1	Total 32	C 10	N 5	O 14	P 3	0
160	KR	1	Total 32	C 10	N 5	O 14	P 3	0
160	KT	1	Total 32	C 10	N 5	O 14	P 3	0
160	KV	1	Total 32	C 10	N 5	O 14	P 3	0
160	KX	1	Total 32	C 10	N 5	O 14	P 3	0
160	KZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	LB	1	Total 32	C 10	N 5	O 14	P 3	0
160	LD	1	Total 32	C 10	N 5	O 14	P 3	0
160	LF	1	Total 32	C 10	N 5	O 14	P 3	0
160	LH	1	Total 32	C 10	N 5	O 14	P 3	0
160	LJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	LL	1	Total 32	C 10	N 5	O 14	P 3	0
160	LN	1	Total 32	C 10	N 5	O 14	P 3	0
160	LP	1	Total 32	C 10	N 5	O 14	P 3	0
160	LR	1	Total 32	C 10	N 5	O 14	P 3	0
160	LT	1	Total 32	C 10	N 5	O 14	P 3	0
160	LV	1	Total 32	C 10	N 5	O 14	P 3	0
160	LX	1	Total 32	C 10	N 5	O 14	P 3	0
160	LZ	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	MB	1	Total 32	C 10	N 5	O 14	P 3	0
160	MD	1	Total 32	C 10	N 5	O 14	P 3	0
160	MF	1	Total 32	C 10	N 5	O 14	P 3	0
160	MH	1	Total 32	C 10	N 5	O 14	P 3	0
160	MJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	ML	1	Total 32	C 10	N 5	O 14	P 3	0
160	MN	1	Total 32	C 10	N 5	O 14	P 3	0
160	MP	1	Total 32	C 10	N 5	O 14	P 3	0
160	MR	1	Total 32	C 10	N 5	O 14	P 3	0
160	MT	1	Total 32	C 10	N 5	O 14	P 3	0
160	MV	1	Total 32	C 10	N 5	O 14	P 3	0
160	MX	1	Total 32	C 10	N 5	O 14	P 3	0
160	MZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	NB	1	Total 32	C 10	N 5	O 14	P 3	0
160	ND	1	Total 32	C 10	N 5	O 14	P 3	0
160	NF	1	Total 32	C 10	N 5	O 14	P 3	0
160	NH	1	Total 32	C 10	N 5	O 14	P 3	0
160	NJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	NL	1	Total 32	C 10	N 5	O 14	P 3	0
160	NN	1	Total 32	C 10	N 5	O 14	P 3	0
160	NP	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	NR	1	Total 32	C 10	N 5	O 14	P 3	0
160	NT	1	Total 32	C 10	N 5	O 14	P 3	0
160	NV	1	Total 32	C 10	N 5	O 14	P 3	0
160	NX	1	Total 32	C 10	N 5	O 14	P 3	0
160	NZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	OB	1	Total 32	C 10	N 5	O 14	P 3	0
160	OD	1	Total 32	C 10	N 5	O 14	P 3	0
160	OF	1	Total 32	C 10	N 5	O 14	P 3	0
160	OH	1	Total 32	C 10	N 5	O 14	P 3	0
160	OJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	OL	1	Total 32	C 10	N 5	O 14	P 3	0
160	ON	1	Total 32	C 10	N 5	O 14	P 3	0
160	OP	1	Total 32	C 10	N 5	O 14	P 3	0
160	OR	1	Total 32	C 10	N 5	O 14	P 3	0
160	OT	1	Total 32	C 10	N 5	O 14	P 3	0
160	OV	1	Total 32	C 10	N 5	O 14	P 3	0
160	OX	1	Total 32	C 10	N 5	O 14	P 3	0
160	OZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	PC	1	Total 32	C 10	N 5	O 14	P 3	0
160	PE	1	Total 32	C 10	N 5	O 14	P 3	0
160	PG	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	PI	1	Total 32	C 10	N 5	O 14	P 3	0
160	PK	1	Total 32	C 10	N 5	O 14	P 3	0
160	PM	1	Total 32	C 10	N 5	O 14	P 3	0
160	PO	1	Total 32	C 10	N 5	O 14	P 3	0
160	PQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	PS	1	Total 32	C 10	N 5	O 14	P 3	0
160	PU	1	Total 32	C 10	N 5	O 14	P 3	0
160	PW	1	Total 32	C 10	N 5	O 14	P 3	0
160	PY	1	Total 32	C 10	N 5	O 14	P 3	0
160	QA	1	Total 32	C 10	N 5	O 14	P 3	0
160	QC	1	Total 32	C 10	N 5	O 14	P 3	0
160	QE	1	Total 32	C 10	N 5	O 14	P 3	0
160	QG	1	Total 32	C 10	N 5	O 14	P 3	0
160	QI	1	Total 32	C 10	N 5	O 14	P 3	0
160	QK	1	Total 32	C 10	N 5	O 14	P 3	0
160	QM	1	Total 32	C 10	N 5	O 14	P 3	0
160	QO	1	Total 32	C 10	N 5	O 14	P 3	0
160	QQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	QS	1	Total 32	C 10	N 5	O 14	P 3	0
160	QU	1	Total 32	C 10	N 5	O 14	P 3	0
160	QW	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	QY	1	Total 32	C 10	N 5	O 14	P 3	0
160	RA	1	Total 32	C 10	N 5	O 14	P 3	0
160	RC	1	Total 32	C 10	N 5	O 14	P 3	0
160	RE	1	Total 32	C 10	N 5	O 14	P 3	0
160	RG	1	Total 32	C 10	N 5	O 14	P 3	0
160	RI	1	Total 32	C 10	N 5	O 14	P 3	0
160	RK	1	Total 32	C 10	N 5	O 14	P 3	0
160	RM	1	Total 32	C 10	N 5	O 14	P 3	0
160	RO	1	Total 32	C 10	N 5	O 14	P 3	0
160	RQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	RS	1	Total 32	C 10	N 5	O 14	P 3	0
160	RU	1	Total 32	C 10	N 5	O 14	P 3	0
160	RW	1	Total 32	C 10	N 5	O 14	P 3	0
160	RY	1	Total 32	C 10	N 5	O 14	P 3	0
160	SA	1	Total 32	C 10	N 5	O 14	P 3	0
160	SC	1	Total 32	C 10	N 5	O 14	P 3	0
160	SE	1	Total 32	C 10	N 5	O 14	P 3	0
160	SG	1	Total 32	C 10	N 5	O 14	P 3	0
160	SI	1	Total 32	C 10	N 5	O 14	P 3	0
160	SK	1	Total 32	C 10	N 5	O 14	P 3	0
160	SM	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	SO	1	Total 32	C 10	N 5	O 14	P 3	0
160	SQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	SS	1	Total 32	C 10	N 5	O 14	P 3	0
160	SU	1	Total 32	C 10	N 5	O 14	P 3	0
160	SW	1	Total 32	C 10	N 5	O 14	P 3	0
160	SY	1	Total 32	C 10	N 5	O 14	P 3	0
160	TA	1	Total 32	C 10	N 5	O 14	P 3	0
160	TC	1	Total 32	C 10	N 5	O 14	P 3	0
160	TE	1	Total 32	C 10	N 5	O 14	P 3	0
160	TG	1	Total 32	C 10	N 5	O 14	P 3	0
160	TI	1	Total 32	C 10	N 5	O 14	P 3	0
160	TK	1	Total 32	C 10	N 5	O 14	P 3	0
160	TM	1	Total 32	C 10	N 5	O 14	P 3	0
160	TO	1	Total 32	C 10	N 5	O 14	P 3	0
160	TQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	TR	1	Total 32	C 10	N 5	O 14	P 3	0
160	TT	1	Total 32	C 10	N 5	O 14	P 3	0
160	TV	1	Total 32	C 10	N 5	O 14	P 3	0
160	TX	1	Total 32	C 10	N 5	O 14	P 3	0
160	TZ	1	Total 32	C 10	N 5	O 14	P 3	0
160	UB	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	UD	1	Total 32	C 10	N 5	O 14	P 3	0
160	UF	1	Total 32	C 10	N 5	O 14	P 3	0
160	UH	1	Total 32	C 10	N 5	O 14	P 3	0
160	UJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	UL	1	Total 32	C 10	N 5	O 14	P 3	0
160	UN	1	Total 32	C 10	N 5	O 14	P 3	0
160	UP	1	Total 32	C 10	N 5	O 14	P 3	0
160	UR	1	Total 32	C 10	N 5	O 14	P 3	0
160	UT	1	Total 32	C 10	N 5	O 14	P 3	0
160	UW	1	Total 32	C 10	N 5	O 14	P 3	0
160	UY	1	Total 32	C 10	N 5	O 14	P 3	0
160	VA	1	Total 32	C 10	N 5	O 14	P 3	0
160	VC	1	Total 32	C 10	N 5	O 14	P 3	0
160	VE	1	Total 32	C 10	N 5	O 14	P 3	0
160	VG	1	Total 32	C 10	N 5	O 14	P 3	0
160	VI	1	Total 32	C 10	N 5	O 14	P 3	0
160	VK	1	Total 32	C 10	N 5	O 14	P 3	0
160	VM	1	Total 32	C 10	N 5	O 14	P 3	0
160	VO	1	Total 32	C 10	N 5	O 14	P 3	0
160	VQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	VS	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	VU	1	Total 32	C 10	N 5	O 14	P 3	0
160	VW	1	Total 32	C 10	N 5	O 14	P 3	0
160	VY	1	Total 32	C 10	N 5	O 14	P 3	0
160	WA	1	Total 32	C 10	N 5	O 14	P 3	0
160	WC	1	Total 32	C 10	N 5	O 14	P 3	0
160	WE	1	Total 32	C 10	N 5	O 14	P 3	0
160	WG	1	Total 32	C 10	N 5	O 14	P 3	0
160	WI	1	Total 32	C 10	N 5	O 14	P 3	0
160	WK	1	Total 32	C 10	N 5	O 14	P 3	0
160	WM	1	Total 32	C 10	N 5	O 14	P 3	0
160	WO	1	Total 32	C 10	N 5	O 14	P 3	0
160	WQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	WS	1	Total 32	C 10	N 5	O 14	P 3	0
160	WU	1	Total 32	C 10	N 5	O 14	P 3	0
160	WW	1	Total 32	C 10	N 5	O 14	P 3	0
160	WY	1	Total 32	C 10	N 5	O 14	P 3	0
160	XA	1	Total 32	C 10	N 5	O 14	P 3	0
160	XC	1	Total 32	C 10	N 5	O 14	P 3	0
160	XE	1	Total 32	C 10	N 5	O 14	P 3	0
160	XG	1	Total 32	C 10	N 5	O 14	P 3	0
160	XI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	XK	1	Total 32	C 10	N 5	O 14	P 3	0
160	XM	1	Total 32	C 10	N 5	O 14	P 3	0
160	XO	1	Total 32	C 10	N 5	O 14	P 3	0
160	XQ	1	Total 32	C 10	N 5	O 14	P 3	0
160	XS	1	Total 32	C 10	N 5	O 14	P 3	0
160	XU	1	Total 32	C 10	N 5	O 14	P 3	0
160	XW	1	Total 32	C 10	N 5	O 14	P 3	0
160	XY	1	Total 32	C 10	N 5	O 14	P 3	0
160	YA	1	Total 32	C 10	N 5	O 14	P 3	0
160	YC	1	Total 32	C 10	N 5	O 14	P 3	0
160	YE	1	Total 32	C 10	N 5	O 14	P 3	0
160	YG	1	Total 32	C 10	N 5	O 14	P 3	0
160	YJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	YL	1	Total 32	C 10	N 5	O 14	P 3	0
160	YN	1	Total 32	C 10	N 5	O 14	P 3	0
160	YP	1	Total 32	C 10	N 5	O 14	P 3	0
160	YR	1	Total 32	C 10	N 5	O 14	P 3	0
160	YT	1	Total 32	C 10	N 5	O 14	P 3	0
160	YV	1	Total 32	C 10	N 5	O 14	P 3	0
160	YX	1	Total 32	C 10	N 5	O 14	P 3	0
160	YZ	1	Total 32	C 10	N 5	O 14	P 3	0

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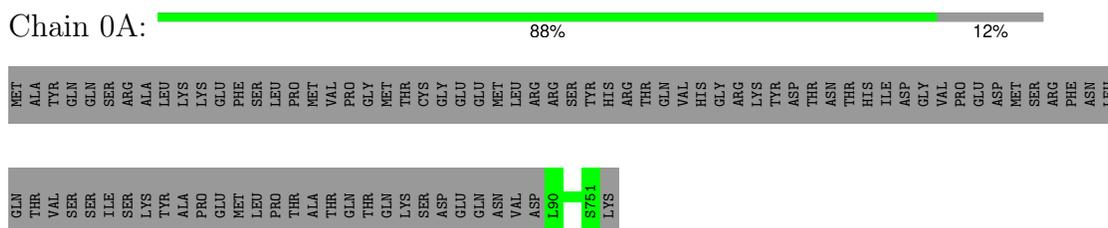
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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
160	ZB	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZD	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZF	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZH	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZJ	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZL	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZN	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZP	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZR	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZT	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZV	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZX	1	Total 32	C 10	N 5	O 14	P 3	0
160	ZZ	1	Total 32	C 10	N 5	O 14	P 3	0

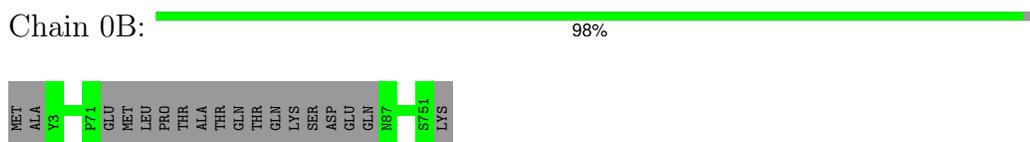
3 Residue-property plots

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: EF-hand domain-containing family member C2



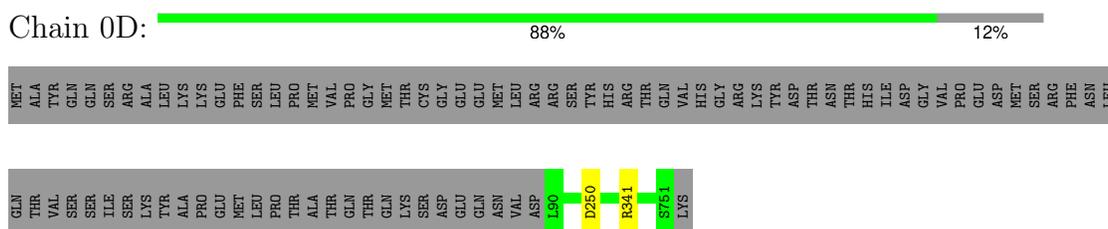
- Molecule 1: EF-hand domain-containing family member C2



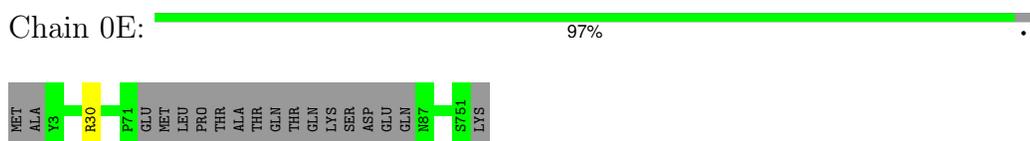
- Molecule 1: EF-hand domain-containing family member C2



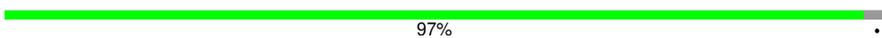
- Molecule 1: EF-hand domain-containing family member C2



- Molecule 1: EF-hand domain-containing family member C2

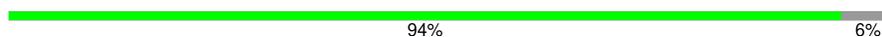


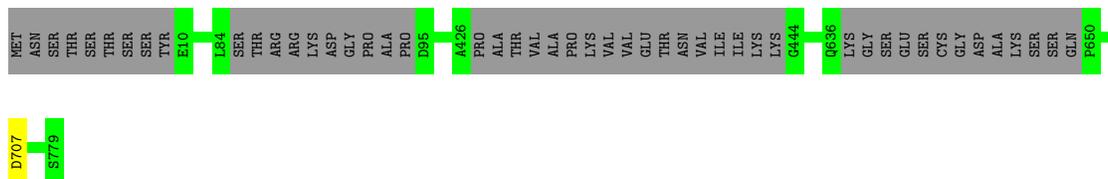
- Molecule 1: EF-hand domain-containing family member C2

Chain 0F:  97%



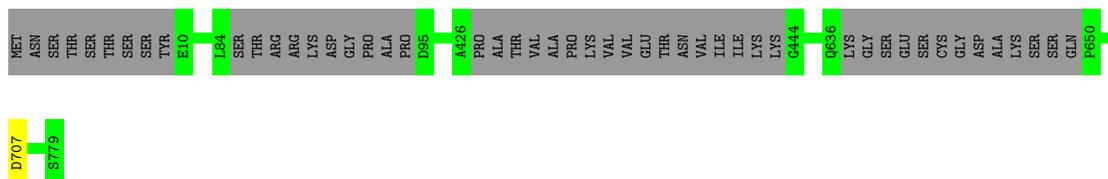
- Molecule 2: EF-hand domain-containing family member C2

Chain 0G:  94% 6%



- Molecule 2: EF-hand domain-containing family member C2

Chain 0H:  94% 6%



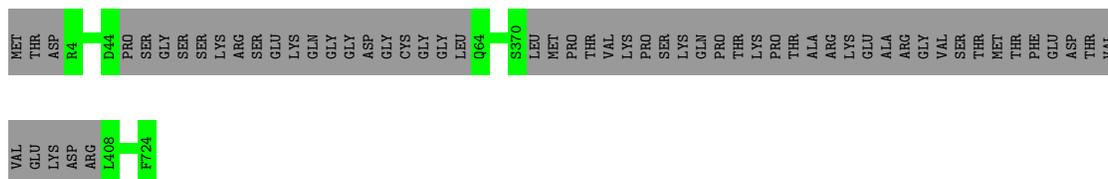
- Molecule 2: EF-hand domain-containing family member C2

Chain 0I:  94% 6%



- Molecule 3: Rib72 protein-like protein

Chain 0J:  92% 8%



- Molecule 3: Rib72 protein-like protein

Chain 0z:  74% 26%

MET ARG VAL LEU ASP PHE LEU ILE ARG ARG ALA HIS THR ASP THR HIS MET ARG GLY VAL VAL ASP PHE GLY ARG LEU ARG LYS ARG GLY GLY GLY TYR THR TYR VAL LEU ARG MET LEU LYS LYS LYS LYS ASN ASP SER LEU PHE PRO ASN TYR SER LEU LYS

SER CYS LEU ASN SER LEU ALA MET SER ASN ALA ALA PRO ALA ALA GLU ASN D77 V44 R299 ARG LYS ASN

- Molecule 17: Nucleoside diphosphate kinase, putative

Chain 1C:  99%

MET THR A3 D135 A334

- Molecule 17: Nucleoside diphosphate kinase, putative

Chain 1D:  99%

MET THR A3 D135 A334

- Molecule 17: Nucleoside diphosphate kinase, putative

Chain 1G:  99%

MET THR A3 D135 A334

- Molecule 18: Nucleoside diphosphate kinase, putative

Chain 1E:  98%

MET A2 L125 P344 GLU ASP VAL ASP ASP GLU

- Molecule 18: Nucleoside diphosphate kinase, putative

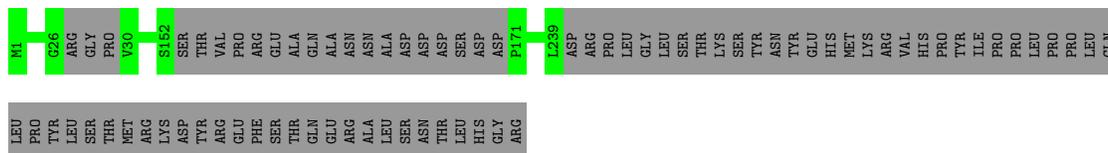
Chain 1F:  98%

MET A2 L125 P344 GLU ASP VAL ASP ASP GLU

- Molecule 19: EF-hand domain-containing protein

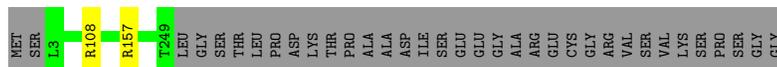
Chain 1H:  99%

MET PRO LEU L4 S422



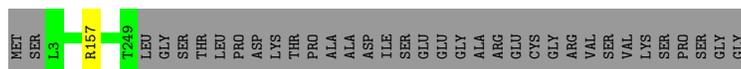
- Molecule 47: Peptidyl-prolyl cis-trans isomerase

Chain 2D: 87% 12%



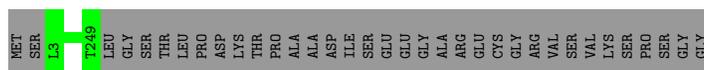
- Molecule 47: Peptidyl-prolyl cis-trans isomerase

Chain 2E: 87% 12%



- Molecule 47: Peptidyl-prolyl cis-trans isomerase

Chain 2F: 88% 12%



- Molecule 48: EF-hand domain-containing protein

Chain 2G: 93% 7%



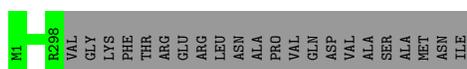
- Molecule 48: EF-hand domain-containing protein

Chain 2H: 93% 7%

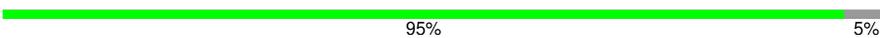


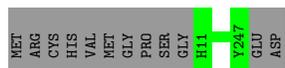
- Molecule 48: EF-hand domain-containing protein

Chain 2I: 93% 7%

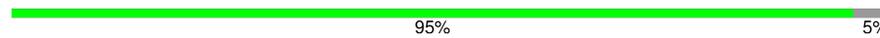


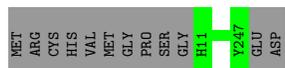
- Molecule 49: FAP107/MC11

Chain 2J:  95% 5%

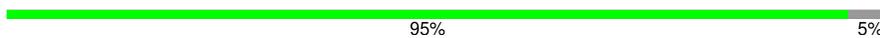


• Molecule 49: FAP107/MC11

Chain 2K:  95% 5%

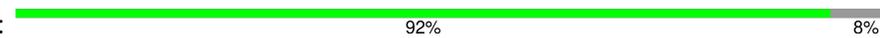


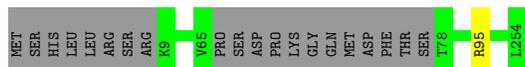
• Molecule 49: FAP107/MC11

Chain 2L:  95% 5%

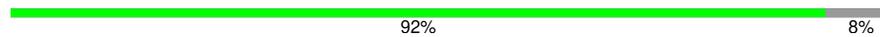


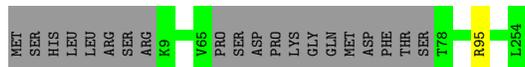
• Molecule 50: T. brucei spp.-specific protein

Chain 2M:  92% 8%



• Molecule 50: T. brucei spp.-specific protein

Chain 2N:  92% 8%



• Molecule 50: T. brucei spp.-specific protein

Chain 2O:  58% 41%



• Molecule 51: FAP95/MC6

Chain 2P:  90% 9%



- Molecule 51: FAP95/MC6

Chain 2Q:  90% 9%

MET	HIS	THR	GLY	ASP	LYS	R7	D95	R168	S174	ALA	GLY	ARG	ASN	CYS	GLY	ALA	ARG	THR	GLN	MET
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- Molecule 52: FAP129

Chain 2R:  67% 33%

MET	ILE	THR	LEU	LEU	LYS	THR	ALA	VAL	ASN	THR	ARG	GLY	ALA	PRO	LEU	ARG	GLN	ARG	ALA	VAL	PRO	LEU	ASP	THR	ASP	LYS	ARG	LYS	THR	ASP	LYS	THR	VAL	ARG	LEU	ASP	VAL	VAL	PRO	LYS	PRO	ALA	ALA	GLN	CYS	GLY	GLY	THR	LEU	GLU	GLY	LEU	HIS	HIS	PRO	ARG	ILE	TYR	THR	THR	THR	PHE	GLU	GLY	ASP	THR	GLU	THR	ALA	ALA	PRO	ALA	ALA	SER	LEU	ARG	THR	PHE	THR	ASP	ASP	PRO	GLY	THR	GLN	GLY	ASN	HIS
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TYR	LEU	THR	LEU	LEU	LEU	ARG	SER	VAL	VAL	ARG	CYS	GLY	ALA	ASN	LYS	THR	THR	THR	VAL	ASP	ASP	VAL	LYS	PRO	ALA	ALA	GLN	CYS	GLY	GLY	THR	LEU	GLU	GLY	LEU	HIS	HIS	PRO	ARG	ILE	TYR	THR	THR	THR	PHE	GLU	GLY	ASP	THR	GLU	THR	ALA	ALA	PRO	ALA	ALA	SER	LEU	ARG	THR	PHE	THR	ASP	ASP	PRO	GLY	THR	GLN	GLY	ASN	THR
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ASP	ALA	GLY	ARG	ASN	LYS	N326	R330	P382	ARG	LYS	LEU	PHE
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- Molecule 52: FAP129

Chain 2S:  67% 33%

MET	ILE	THR	LEU	LEU	LYS	THR	ALA	VAL	ASN	THR	ARG	GLY	ALA	PRO	LEU	ARG	GLN	ARG	ALA	VAL	PRO	LEU	ASP	THR	ASP	LYS	ARG	LYS	THR	ASP	LYS	THR	VAL	ARG	LEU	ASP	VAL	VAL	PRO	LYS	PRO	ALA	ALA	GLN	CYS	GLY	GLY	THR	LEU	GLU	GLY	LEU	HIS	HIS	PRO	ARG	ILE	TYR	THR	THR	THR	PHE	GLU	GLY	ASP	THR	GLU	THR	ALA	ALA	PRO	ALA	ALA	SER	LEU	ARG	THR	PHE	THR	ASP	ASP	PRO	GLY	THR	GLN	GLY	ASN	HIS
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TYR	LEU	THR	LEU	LEU	LEU	ARG	SER	VAL	VAL	ARG	CYS	GLY	ALA	ASN	LYS	THR	THR	THR	VAL	ASP	ASP	VAL	LYS	PRO	ALA	ALA	GLN	CYS	GLY	GLY	THR	LEU	GLU	GLY	LEU	HIS	HIS	PRO	ARG	ILE	TYR	THR	THR	THR	PHE	GLU	GLY	ASP	THR	GLU	THR	ALA	ALA	PRO	ALA	ALA	SER	LEU	ARG	THR	PHE	THR	ASP	ASP	PRO	GLY	THR	GLN	GLY	ASN	THR
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GLY	THR	ALA	GLY	ARG	ASN	LYS	N326	P382	ARG	LYS	LEU	PHE
-----	-----	-----	-----	-----	-----	-----	------	------	-----	-----	-----	-----

- Molecule 52: FAP129

Chain 2T:  67% 33%

MET	ILE	THR	LEU	LEU	LYS	THR	ALA	VAL	ASN	THR	ARG	GLY	ALA	PRO	LEU	ARG	GLN	ARG	ALA	VAL	PRO	LEU	ASP	THR	ASP	LYS	ARG	LYS	THR	ASP	LYS	THR	VAL	ARG	LEU	ASP	VAL	VAL	PRO	LYS	PRO	ALA	ALA	GLN	CYS	GLY	GLY	THR	LEU	GLU	GLY	LEU	HIS	HIS	PRO	ARG	ILE	TYR	THR	THR	THR	PHE	GLU	GLY	ASP	THR	GLU	THR	ALA	ALA	PRO	ALA	ALA	SER	LEU	ARG	THR	PHE	THR	ASP	ASP	PRO	GLY	THR	GLN	GLY	ASN	HIS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

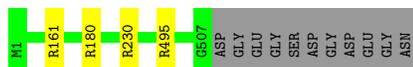
TYR	LEU	THR	LEU	LEU	LEU	ARG	SER	VAL	VAL	ARG	CYS	GLY	ALA	ASN	LYS	THR	THR	THR	VAL	ASP	ASP	VAL	LYS	PRO	ALA	ALA	GLN	CYS	GLY	GLY	THR	LEU	GLU	GLY	LEU	HIS	HIS	PRO	ARG	ILE	TYR	THR	THR	THR	PHE	GLU	GLY	ASP	THR	GLU	THR	ALA	ALA	PRO	ALA	ALA	SER	LEU	ARG	THR	PHE	THR	ASP	ASP	PRO	GLY	THR	GLN	GLY	ASN	THR
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ASP	ALA	GLY	ARG	ASN	LYS	N326	P382	ARG	LYS	LEU	PHE
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- Molecule 53: T. brucei spp.-specific protein

Chain 2U:  70% 30%

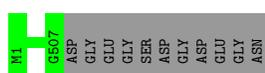
MET	GLU	GLY	GLY	THR	TYR	THR	GLY	GLN	ASN	LEU	LEU	SER	SER	VAL	VAL	GLU	THR	THR	ASP	ASP	GLU	GLU	LEU	LEU	SER	SER	SER	LYS	ILE	SER	ASN	GLY	PHE	ALA	SER	SER	SER	ALA	TYR	TRP	GLY	ALA	THR	THR	GLY	GLU	LEU	LEU	PRO	PRO	ARG	ARG	GLY	PRO	PRO	ASP	ASP	VAL	ALA
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



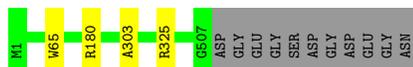
- Molecule 56: RSP2



- Molecule 56: RSP2



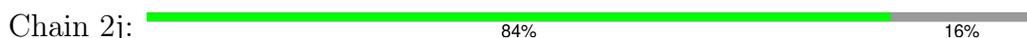
- Molecule 56: RSP2



- Molecule 57: Radial spoke protein 3, putative



- Molecule 57: Radial spoke protein 3, putative



- Molecule 57: Radial spoke protein 3, putative





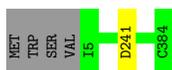
- Molecule 70: Cyclophilin type peptidyl-prolyl cis-trans isomerase, putative



- Molecule 70: Cyclophilin type peptidyl-prolyl cis-trans isomerase, putative



- Molecule 71: RSP14



- Molecule 72: Leucine-rich repeat protein (LRRP)



- Molecule 73: Chaperone protein DNAJ, putative

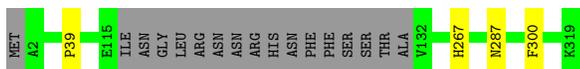


- Molecule 73: Chaperone protein DNAJ, putative



- Molecule 73: Chaperone protein DNAJ, putative





- Molecule 73: Chaperone protein DNAJ, putative

Chain 3p: 89% 9%



- Molecule 74: Nucleoside diphosphate kinase

Chain 3q: 85% 15%



- Molecule 74: Nucleoside diphosphate kinase

Chain 3r: 85% 15%



- Molecule 74: Nucleoside diphosphate kinase

Chain 3s: 85% 15%



- Molecule 74: Nucleoside diphosphate kinase

Chain 3t: 84% 15%



- Molecule 75: Dynein light chain

Chain 3u: 97%

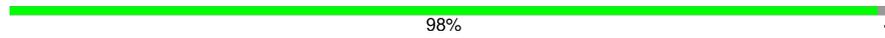


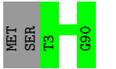
- Molecule 75: Dynein light chain

Chain 3v: 97%

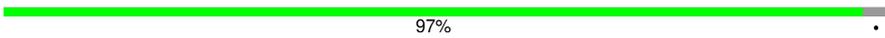


- Molecule 75: Dynein light chain

Chain 3w:  98%

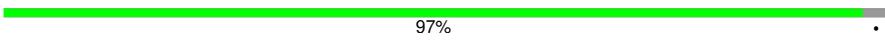


- Molecule 75: Dynein light chain

Chain 3x:  97%

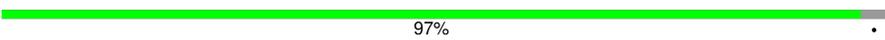


- Molecule 75: Dynein light chain

Chain 3y:  97%

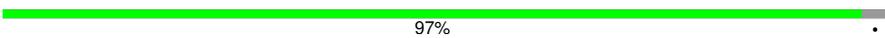


- Molecule 75: Dynein light chain

Chain 3z:  97%

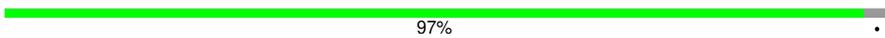


- Molecule 75: Dynein light chain

Chain 4a:  97%

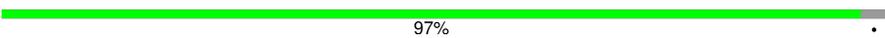


- Molecule 75: Dynein light chain

Chain 4b:  97%



- Molecule 75: Dynein light chain

Chain 4c:  97%



- Molecule 75: Dynein light chain

Chain 4d: 97%



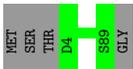
- Molecule 75: Dynein light chain

Chain 4e: 96%



- Molecule 75: Dynein light chain

Chain 4f: 96%



- Molecule 75: Dynein light chain

Chain 4g: 97%



- Molecule 75: Dynein light chain

Chain 4h: 97%



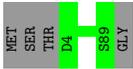
- Molecule 75: Dynein light chain

Chain 4i: 96%



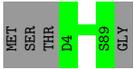
- Molecule 75: Dynein light chain

Chain 4j: 96%



- Molecule 75: Dynein light chain

Chain 4k: 96%



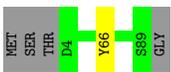
- Molecule 75: Dynein light chain

Chain 4l: 96%



- Molecule 75: Dynein light chain

Chain 4m: 94%



- Molecule 75: Dynein light chain

Chain 4n: 96%



- Molecule 75: Dynein light chain

Chain 5s: 97%



- Molecule 75: Dynein light chain

Chain 5t: 98%



- Molecule 75: Dynein light chain

Chain 5u: 92% 7%



- Molecule 75: Dynein light chain



- Molecule 75: Dynein light chain



There are no outlier residues recorded for this chain.

- Molecule 75: Dynein light chain

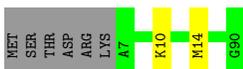


There are no outlier residues recorded for this chain.

- Molecule 75: Dynein light chain



- Molecule 75: Dynein light chain



- Molecule 75: Dynein light chain



- Molecule 75: Dynein light chain



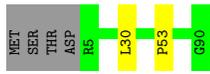
• Molecule 75: Dynein light chain



• Molecule 75: Dynein light chain



• Molecule 75: Dynein light chain



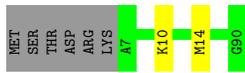
• Molecule 75: Dynein light chain



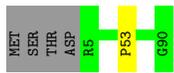
• Molecule 75: Dynein light chain



• Molecule 75: Dynein light chain



• Molecule 75: Dynein light chain

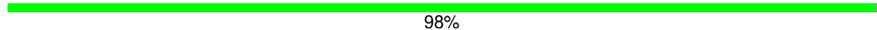


• Molecule 75: Dynein light chain

Chain 9p:  94%



- Molecule 76: Cilia- and flagella-associated protein 52

Chain 4O:  98%



- Molecule 76: Cilia- and flagella-associated protein 52

Chain 4P:  99%



- Molecule 76: Cilia- and flagella-associated protein 52

Chain 4Q:  99%



- Molecule 76: Cilia- and flagella-associated protein 52

Chain 4R:  98%



- Molecule 76: Cilia- and flagella-associated protein 52

Chain 4S:  99%

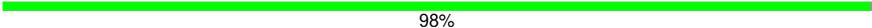


- Molecule 76: Cilia- and flagella-associated protein 52

Chain 4T:  99%



- Molecule 76: Cilia- and flagella-associated protein 52

Chain 4U:  98%



- Molecule 77: Enkurin domain-containing protein

Chain 4V:  87%  12%



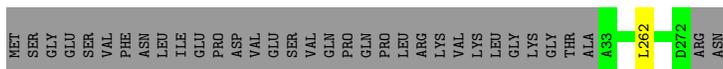
- Molecule 77: Enkurin domain-containing protein

Chain 4W:  88%  12%



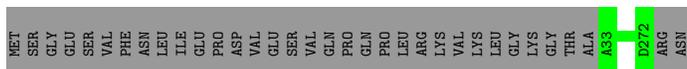
- Molecule 77: Enkurin domain-containing protein

Chain 4X:  87%  12%



- Molecule 77: Enkurin domain-containing protein

Chain 4Y:  88%  12%



- Molecule 77: Enkurin domain-containing protein

Chain 4Z:  87%  12%



- Molecule 78: Cytochrome b5 domain-containing protein 1

Chain 4o:  100%

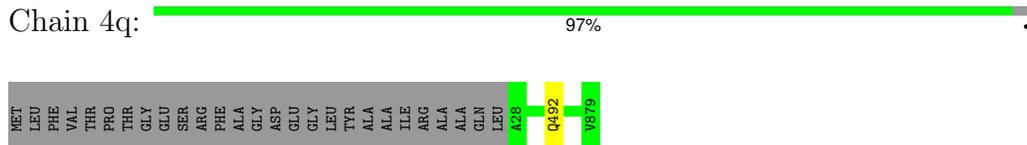
There are no outlier residues recorded for this chain.

- Molecule 78: Cytochrome b5 domain-containing protein 1

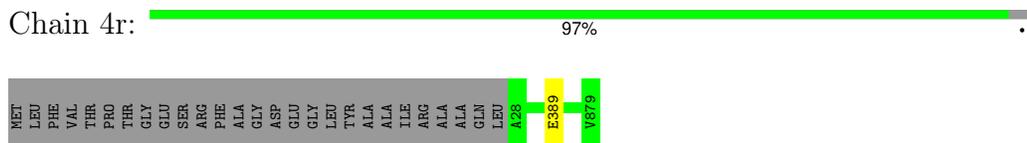
Chain 4p:  100%

There are no outlier residues recorded for this chain.

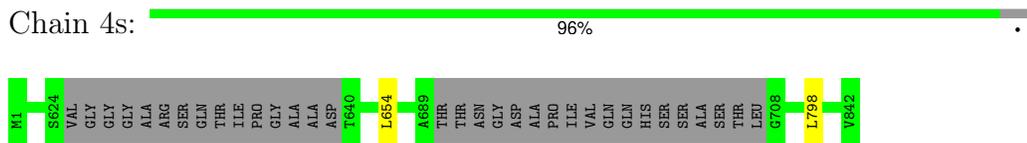
- Molecule 79: Leucine-rich repeat protein (LRRP)



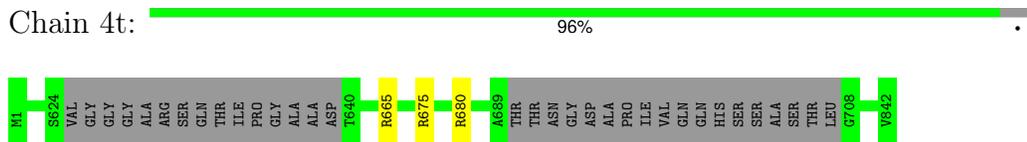
- Molecule 79: Leucine-rich repeat protein (LRRP)



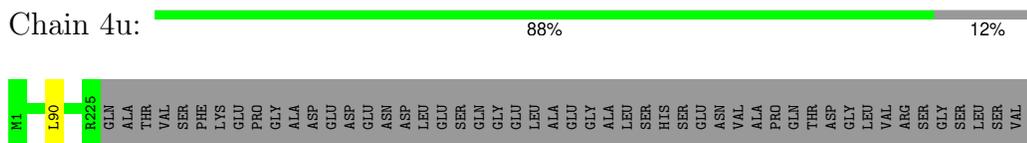
- Molecule 80: VWFA domain-containing protein



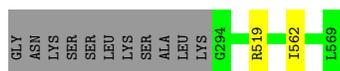
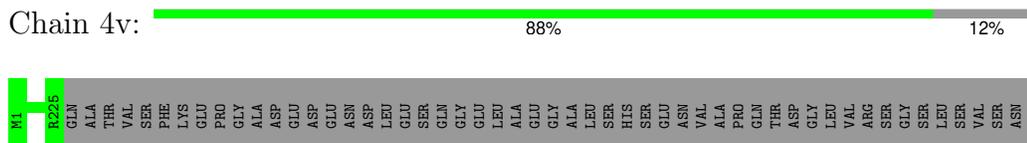
- Molecule 80: VWFA domain-containing protein

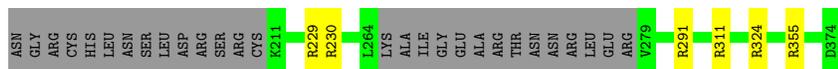


- Molecule 81: TbrSP63

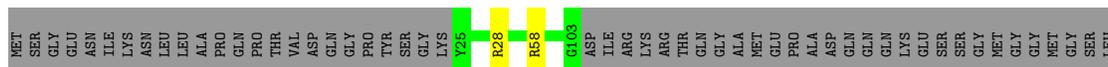


- Molecule 81: TbrSP63

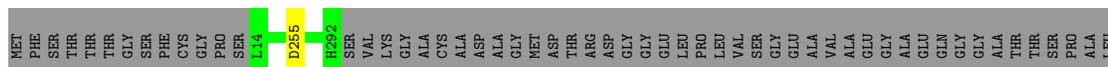




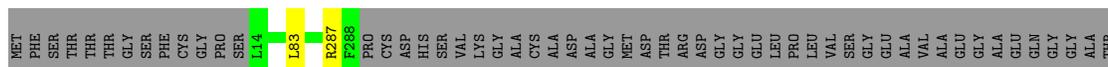
• Molecule 86: Enkurin domain-containing protein



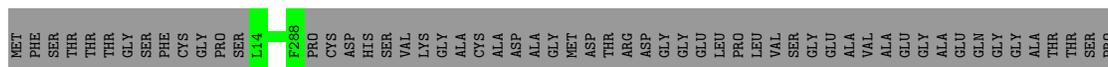
• Molecule 87: MC4



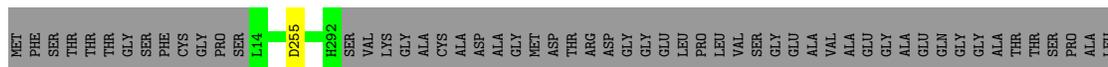
• Molecule 87: MC4

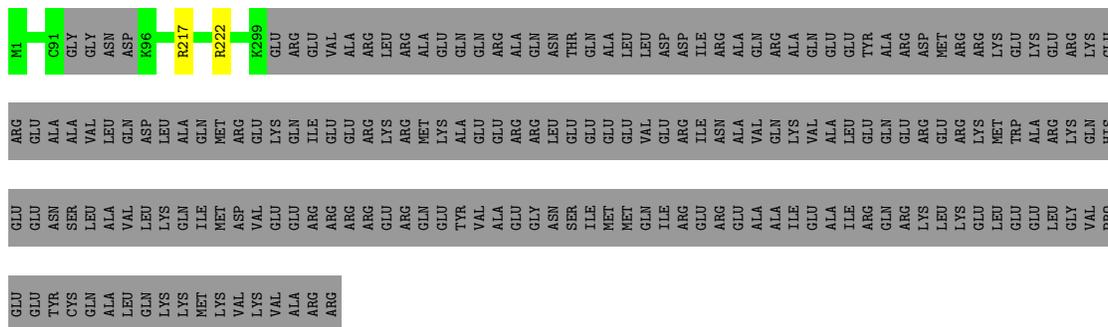


• Molecule 87: MC4



• Molecule 87: MC4

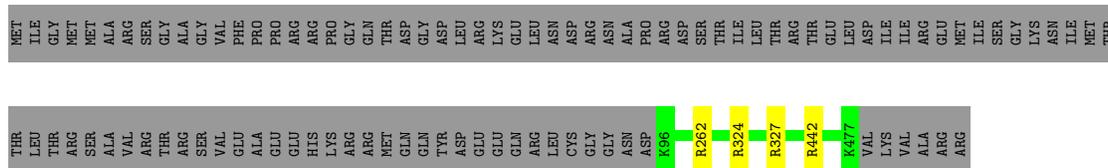
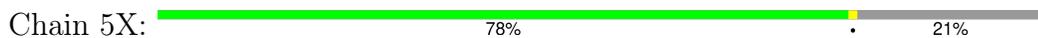




• Molecule 88: Cilia- and flagella-associated protein 45



• Molecule 88: Cilia- and flagella-associated protein 45



• Molecule 89: CCDC81 HU domain-containing protein



• Molecule 89: CCDC81 HU domain-containing protein



• Molecule 90: MC5



• Molecule 90: MC5

GLU
GLN
ARG
LYS
ARG
LEU
GLU
ALA
ALA
GLU
LYS
GLY
ALA
SER
THR
MET
LYS
LYS

• Molecule 105: Dynein light chain, putative



MET
GLN
THR
ASP
PHE
GLY
ASP
ALA
THR
THR
PHE
SER
LEU
R114
W95
Y124

• Molecule 105: Dynein light chain, putative



MET
GLN
THR
THR
PHE
GLY
ASP
ALA
THR
THR
PHE
SER
LEU
R114
Y124

• Molecule 105: Dynein light chain, putative



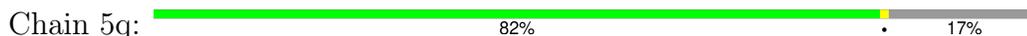
MET
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ASP
PHE
GLY
ASP
ALA
THR
THR
PHE
SER
LEU
R114
Y124

• Molecule 105: Dynein light chain, putative



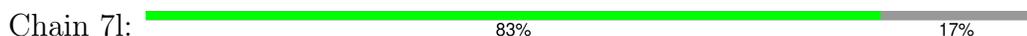
MET
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ASP
PHE
GLY
ASP
ALA
THR
THR
PHE
SER
LEU
R114
Y124

• Molecule 106: Dynein light chain roadblock



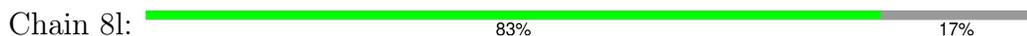
MET
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ILE
GLY
GLY
SER
G9
R80
S106
GLY
ASP
VAL
ALA
VAL
ASN
PRO
ALA
ASN
ASN
GLY
VAL
SER
SER
ALA

• Molecule 106: Dynein light chain roadblock



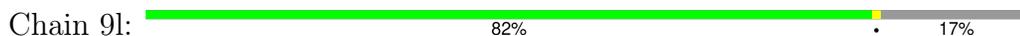
MET
ALA
ALA
ILE
GLY
GLY
SER
G9
S106
GLY
ASP
ALA
VAL
PRO
ASN
ALA
ASN
ASN
GLY
VAL
SER
SER
ALA

• Molecule 106: Dynein light chain roadblock





• Molecule 106: Dynein light chain roadblock



• Molecule 107: Dynein light chain roadblock



• Molecule 107: Dynein light chain roadblock



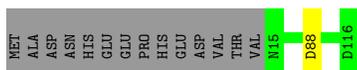
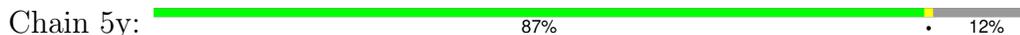
• Molecule 107: Dynein light chain roadblock



• Molecule 107: Dynein light chain roadblock



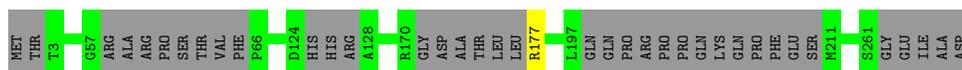
• Molecule 108: Dynein light chain, putative



• Molecule 108: Dynein light chain, putative

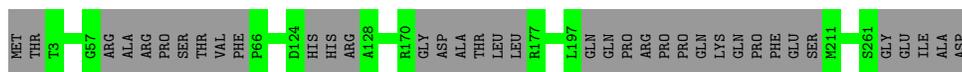


Chain 6Y:  86% 14%



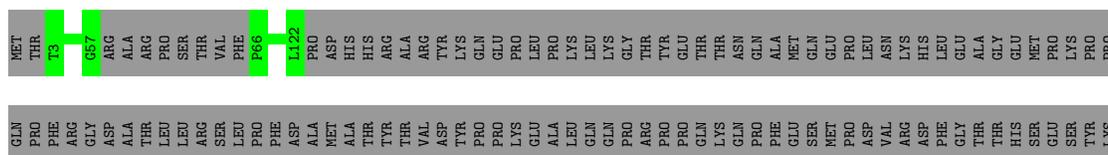
● Molecule 110: STOP axonemal protein

Chain 6Z:  86% 14%



● Molecule 110: STOP axonemal protein

Chain 7A:  42% 58%



● Molecule 110: STOP axonemal protein

Chain 7B:  67% 33%



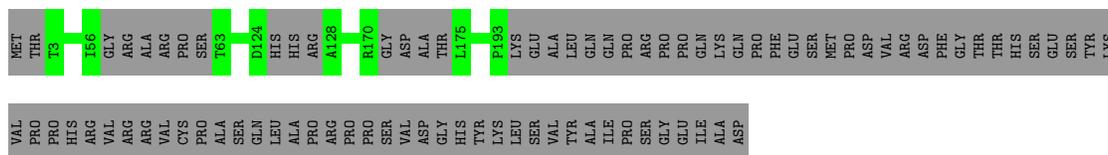
● Molecule 110: STOP axonemal protein

Chain 7C:  90% 10%



● Molecule 110: STOP axonemal protein

Chain 7D:  67% 33%



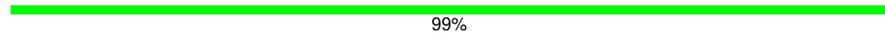


- Molecule 116: Actin A

Chain 6f:  99%



- Molecule 116: Actin A

Chain 6g:  99%

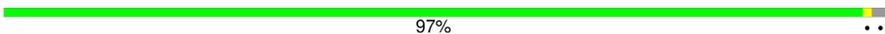


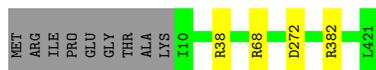
- Molecule 117: Actin-like protein, putative

Chain 6h:  100%



- Molecule 118: Actin, putative

Chain 6i:  97%



- Molecule 119: Actin, putative

Chain 6j:  90% 9%



- Molecule 120: Dynein arm light chain, axonemal, putative

Chain 6k:  71% 29%



- Molecule 120: Dynein arm light chain, axonemal, putative

Chain 7W:  85% 14%

MET ILE GLY GLY ALA VAL LEU ASN PRO HIS HIS PRO PRO ALA THR GLU LYS SER SER THR GLU THR THR PRO PRO GLN ARG PRO SER ARG ARG LEU PRO THR THR ALA ALA ALA ALA H36 R154 SER GLN ASP LYS ASP S150 L173 P278

- Molecule 133: Enkurin domain-containing protein

Chain 7X:  83% 17%

MET ILE GLY GLY ALA VAL LEU ASN PRO HIS HIS PRO PRO ALA THR GLU LYS SER SER THR GLU THR THR PRO PRO GLN ARG PRO SER ARG ARG LEU PRO THR THR ALA ALA ALA ALA H36 R154 SER GLN ASP LYS Y40 Q92 LEU ARG SER SER A97 S155 GLN ASP LYS S160 P278

- Molecule 133: Enkurin domain-containing protein

Chain 7Y:  86% 14%

MET ILE GLY GLY ALA VAL LEU ASN PRO HIS HIS PRO PRO ALA THR GLU LYS SER SER THR GLU THR THR PRO PRO GLN ARG PRO SER ARG ARG LEU PRO THR THR ALA ALA ALA ALA H36 G110 THR THR CYS CYS V115 P278

- Molecule 133: Enkurin domain-containing protein

Chain 7Z:  85% 14%

MET ILE GLY GLY ALA VAL LEU ASN PRO HIS HIS PRO PRO ALA THR GLU LYS SER SER THR GLU THR THR PRO PRO GLN ARG PRO SER ARG ARG LEU PRO THR THR ALA ALA ALA ALA H36 R154 SER GLN ASP LYS S150 L173 P278

- Molecule 133: Enkurin domain-containing protein

Chain 8A:  83% 17%

MET ILE GLY GLY ALA VAL LEU ASN PRO HIS HIS PRO PRO ALA THR GLU LYS SER SER THR GLU THR THR PRO PRO GLN ARG PRO SER ARG ARG LEU PRO THR THR ALA ALA ALA ALA H36 R154 SER GLN ASP LYS Y40 Q92 LEU ARG SER SER A97 S155 GLN ASP LYS S160 P278

- Molecule 133: Enkurin domain-containing protein

Chain 8B:  86% 14%

MET ILE GLY GLY ALA VAL LEU ASN PRO HIS HIS PRO PRO ALA THR GLU LYS SER SER THR GLU THR THR PRO PRO GLN ARG PRO SER ARG ARG LEU PRO THR THR ALA ALA ALA ALA H36 G110 THR THR CYS CYS V115 P278

- Molecule 133: Enkurin domain-containing protein

Chain 8C:  85% 14%

MET ILE GLY GLY ALA VAL LEU ASN PRO HIS HIS PRO PRO ALA THR GLU LYS SER SER THR GLU THR THR PRO PRO GLN ARG PRO SER ARG ARG LEU PRO THR THR ALA ALA ALA ALA H36 R154 SER GLN ASP LYS S150 L173 P278

- Molecule 134: Dynein heavy chain, putative

MET
LYS
LEU
LEU
GLU
ASP
ILE
SER
GLY
ILE
GLY
ASP
VAL
ASP
SER
ASP

• Molecule 138: Dynein, putative



MET
T2
M18
L215
D266
L330
R534
GLN
ARG
GLN
GLN
ARG
ASP
ARG
ASP
SER
SER
THR
THR
VAL
LEU
LEU
GLY
GLU
GLU
SER
HIS
LYS
LYS
SER
SER
SER
ASP
ASP
GLU
GLU
VAL
THR
GLN
GLN
LEU
LEU
GLU
GLY
LYS
VAL
THR
GLU
GLU
TYR
GLN
THR
THR
VAL
LYS
SER
SER
GLY
LYS
GLY
ARG
ASP
ASP
GLU
GLN
ARG
THR
LEU

GLU
CYS
ALA
ARG
MET
LYS
LEU
LEU
LEU
ASP
ILE
ILE
GLY
SER
SER
GLY
GLY
ILE
ASP
VAL
ASP
SER
SER
ASP

• Molecule 139: Dynein intermediate chain, putative



MET
ASP
THR
ASN
ALA
ARG
ARG
ALA
SER
GLY
GLY
SER
ALA
ALA
VAL
VAL
ASP
ALA
ALA
PRO
VAL
VAL
ALA
ALA
ALA
ALA
PRO
PRO
GLU
GLU
ASP
D29
S190
HIS
ARG
PRO
THR
ARG
LYS
PRO
GLY
GLY
ASP
LYS
LEU
LEU
SER
SER
THR
ALA
ASP
GLU
GLY
G208
L364
L485
T584
R654
ALA

• Molecule 139: Dynein intermediate chain, putative



MET
ASP
THR
ASN
ALA
ARG
ARG
ALA
SER
GLY
GLY
SER
ALA
ALA
VAL
VAL
ASP
ALA
ALA
PRO
VAL
VAL
ALA
ALA
ALA
ALA
PRO
PRO
GLU
GLU
ASP
D29
E103
S190
HIS
ARG
PRO
THR
ARG
LYS
PRO
GLY
GLY
ASP
LYS
LEU
LEU
SER
SER
THR
ALA
ASP
GLU
GLY
G208
L485
W392
M430
L485
G538

T584
Q654
ALA

• Molecule 139: Dynein intermediate chain, putative



MET
ASP
THR
ASN
ALA
ARG
ARG
ALA
SER
GLY
GLY
SER
ALA
ALA
VAL
VAL
ASP
ALA
ALA
PRO
VAL
VAL
ALA
ALA
ALA
ALA
PRO
PRO
GLU
GLU
ASP
D29
S190
HIS
ARG
PRO
THR
ARG
LYS
PRO
GLY
GLY
ASP
LYS
LEU
LEU
SER
SER
THR
ALA
ASP
GLU
GLY
G208
L485
T584
Q654
ALA

• Molecule 140: Dynein light chain



MET
THR
SER
ASN
VAL
LYS
GLU
P8
P27
L112

• Molecule 140: Dynein light chain

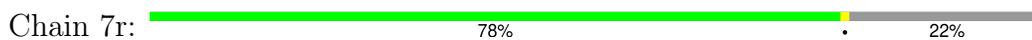


MET
THR
SER
ASN
VAL
LYS
GLU
P8
L112

• Molecule 140: Dynein light chain



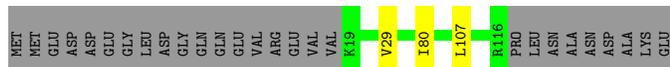
• Molecule 141: Dynein light chain



• Molecule 141: Dynein light chain



• Molecule 141: Dynein light chain



• Molecule 142: Outer dynein arm docking complex



ASP ASP GLY ILE GLY THR SER ALA ALA LEU VAL ASN THR ASP ASP

• Molecule 146: PON4

Chain 8W: 12% 88%

MET SER VAL LYS LEU THR HIS VAL SER SER VAL GLN TYR GLN TYR ASN THR ASP ASP

SER GLN ARG ASN TYR ASP ARG PRO GLU VAL PRO PHE LEU LEU ASP ASP ASP ASP ASP

ASN GLY MET ALA LYS THR ARG E129 T168 GLY PRO PHE ASP ASP ASP ASP ASP

PRO HIS CYS GLU ASP SER HIS ARG LEU VAL THR VAL ALA PHE ASP ASP ASP ASP ASP

LYS THR ILE GLY THR LEU THR ASP HIS THR TYR TYR GLY PRO PRO GLU VAL VAL VAL VAL

• Molecule 146: PON4

Chain 8X: 12% 88%

MET SER VAL LYS LEU THR HIS VAL SER SER VAL GLN TYR GLN TYR ASN THR ASP ASP

SER GLN ARG ASN TYR ASP ARG PRO GLU VAL PRO PHE LEU LEU ASP ASP ASP ASP ASP

ASN GLY MET ALA LYS THR ARG E129 T168 GLY PRO PHE ASP ASP ASP ASP ASP

PRO HIS CYS GLU ASP SER HIS ARG LEU VAL THR VAL ALA PHE ASP ASP ASP ASP ASP

LYS THR ILE GLY THR LEU THR ASP HIS THR TYR TYR GLY PRO PRO GLU VAL VAL VAL VAL

• Molecule 146: PON4

Chain 8Y: 39% 61%

MET SER VAL LYS LEU THR HIS VAL SER SER VAL GLN TYR GLN TYR ASN THR ASP ASP

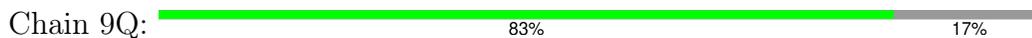
VAL LYS SER ALA LEU THR ILE VAL TYR MET PRO GLY HIS THR THR THR THR THR THR

ALA ALA ALA LEU VAL LEU LEU

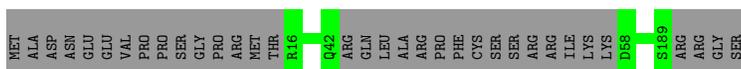
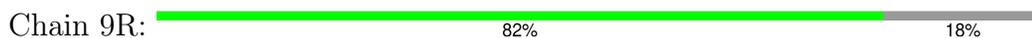
ASP ASP GLY ILE THR SER ALA ALA LEU LEU



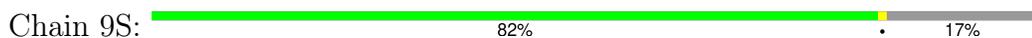
● Molecule 150: MOP23A



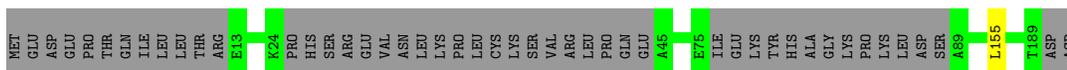
● Molecule 150: MOP23A



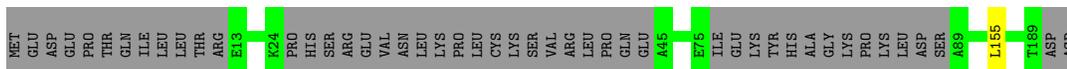
● Molecule 150: MOP23A



● Molecule 151: MOP23B



● Molecule 151: MOP23B



● Molecule 151: MOP23B



● Molecule 152: MOP23C



Chain 9W:  43% 57%

MET GLU GLN ASP SER HIS PRO ARG ILE GLY LEU MET LEU THR ARG ALA GLY PHE GLU ALA LEU VAL THR ARG HIS ASP LYS SER VAL GLU HIS LYS ALA SER SER THR LEU ARG GLN LEU LEU ASP ALA ARG PHE TYR PRO THR THR ALA PRO PRO LYS ARG ARG PRO PRO LYS GLU ALA ILE GLU SER

SER VAL VAL ARG GLN VAL ASP HIS ASP MET ASN ARG ARG ALA ALA ARG GLU ASN LEU LEU ILE GLN GLU ARG ARG THR LYS THR SER LYS LYS ILE SER SER A96 V166

• Molecule 152: MOP23C

Chain 9X:  43% 57%

MET GLU GLN ASP SER HIS PRO ARG ILE GLY LEU MET LEU THR ARG ALA GLY PHE GLU ALA LEU VAL THR ARG HIS ASP LYS SER VAL GLU HIS LYS ALA SER SER THR LEU ARG GLN LEU LEU ASP ALA ARG PHE TYR PRO THR THR ALA PRO PRO LYS ARG ARG PRO PRO LYS GLU ALA ILE GLU SER

SER VAL VAL ARG GLN VAL ASP HIS ASP MET ASN ARG ARG ALA ALA ARG GLU ASN LEU LEU ILE GLN GLU ARG ARG THR LYS THR SER LYS LYS ILE SER SER A96 V166

• Molecule 152: MOP23C

Chain 9Y:  43% 57%

MET GLU GLN ASP SER HIS PRO ARG ILE GLY LEU MET LEU THR ARG ALA GLY PHE GLU ALA LEU VAL THR ARG HIS ASP LYS SER VAL GLU HIS LYS ALA SER SER THR LEU ARG GLN LEU LEU ASP ALA ARG PHE TYR PRO THR THR ALA PRO PRO LYS ARG ARG PRO PRO LYS GLU ALA ILE GLU SER

SER VAL VAL ARG GLN VAL ASP HIS ASP MET ASN ARG ARG ALA ALA ARG GLU ASN LEU LEU ILE GLN GLU ARG ARG THR LYS THR SER LYS LYS ILE SER SER A96 V166

• Molecule 153: Tubulin beta chain

Chain AA:  97%

MET R2 M377 E431 GLU GLY PHE ASP GLU GLN TYR

• Molecule 153: Tubulin beta chain

Chain AC:  97%

MET R2 D31 E431 GLU GLY PHE ASP GLU GLN TYR

• Molecule 153: Tubulin beta chain

Chain AE:  97%

MET R2 E431 GLU GLY PHE ASP GLU GLN TYR

• Molecule 153: Tubulin beta chain

Chain AG:  97%



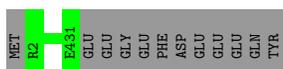
- Molecule 153: Tubulin beta chain

Chain AI: 97%



- Molecule 153: Tubulin beta chain

Chain AK: 97%



- Molecule 153: Tubulin beta chain

Chain AM: 97%



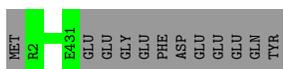
- Molecule 153: Tubulin beta chain

Chain AO: 97%



- Molecule 153: Tubulin beta chain

Chain AQ: 97%



- Molecule 153: Tubulin beta chain

Chain AS: 97%



- Molecule 153: Tubulin beta chain

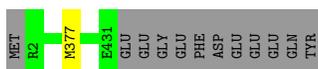
Chain AU: 97%



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



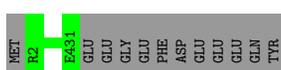
• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain

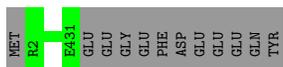




• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain





- Molecule 153: Tubulin beta chain

Chain BK: 97%



- Molecule 153: Tubulin beta chain

Chain BM: 97%



- Molecule 153: Tubulin beta chain

Chain BO: 97%



- Molecule 153: Tubulin beta chain

Chain BQ: 97%



- Molecule 153: Tubulin beta chain

Chain BS: 97%



- Molecule 153: Tubulin beta chain

Chain BU: 97%



- Molecule 153: Tubulin beta chain

Chain BW: 97%



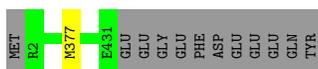
- Molecule 153: Tubulin beta chain

Chain BY: 97%



- Molecule 153: Tubulin beta chain

Chain CA: 97%



- Molecule 153: Tubulin beta chain

Chain CC: 97%



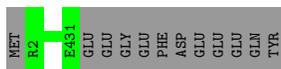
- Molecule 153: Tubulin beta chain

Chain CE: 97%



- Molecule 153: Tubulin beta chain

Chain CH: 97%



- Molecule 153: Tubulin beta chain

Chain CK: 96%



- Molecule 153: Tubulin beta chain

Chain CM: 97%



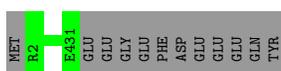
- Molecule 153: Tubulin beta chain

Chain CO: 97%



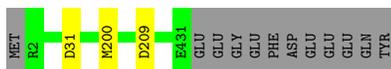
- Molecule 153: Tubulin beta chain

Chain CQ: 97%



- Molecule 153: Tubulin beta chain

Chain CS: 97%



- Molecule 153: Tubulin beta chain

Chain CU: 97%



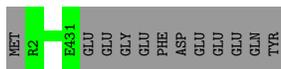
- Molecule 153: Tubulin beta chain

Chain CW: 96%



- Molecule 153: Tubulin beta chain

Chain CY: 97%



- Molecule 153: Tubulin beta chain

Chain DA: 97%



- Molecule 153: Tubulin beta chain

Chain DC: 97%



- Molecule 153: Tubulin beta chain

Chain DE: 97%



- Molecule 153: Tubulin beta chain

Chain DG: 97%



- Molecule 153: Tubulin beta chain

Chain DI: 97%



- Molecule 153: Tubulin beta chain

Chain DK: 97%



- Molecule 153: Tubulin beta chain

Chain DN: 97%



- Molecule 153: Tubulin beta chain

Chain DP: 97%



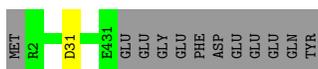
- Molecule 153: Tubulin beta chain

Chain DR: 97%



- Molecule 153: Tubulin beta chain

Chain DT: 97%



- Molecule 153: Tubulin beta chain

Chain DV: 97%



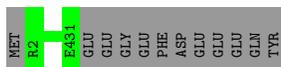
- Molecule 153: Tubulin beta chain

Chain DX: 97%



- Molecule 153: Tubulin beta chain

Chain DZ: 97%



- Molecule 153: Tubulin beta chain

Chain EB: 97%



- Molecule 153: Tubulin beta chain

Chain ED: 97%



- Molecule 153: Tubulin beta chain

Chain EF: 97%



- Molecule 153: Tubulin beta chain

Chain EH: 97%



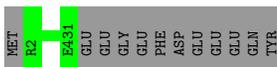
- Molecule 153: Tubulin beta chain

Chain EJ: 97%



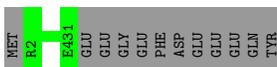
- Molecule 153: Tubulin beta chain

Chain EL: 97%



- Molecule 153: Tubulin beta chain

Chain EN: 97%



- Molecule 153: Tubulin beta chain

Chain ER: 97%



- Molecule 153: Tubulin beta chain

Chain ET: 97%



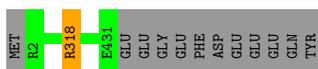
- Molecule 153: Tubulin beta chain

Chain EV: 97%



- Molecule 153: Tubulin beta chain

Chain EX: 97%



- Molecule 153: Tubulin beta chain

Chain EZ: 97%



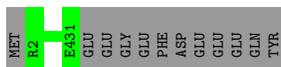
- Molecule 153: Tubulin beta chain

Chain FB: 97%



- Molecule 153: Tubulin beta chain

Chain FD: 97%



- Molecule 153: Tubulin beta chain

Chain FF: 97%



- Molecule 153: Tubulin beta chain

Chain FH: 97%



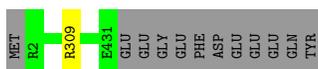
- Molecule 153: Tubulin beta chain

Chain FJ: 97%



- Molecule 153: Tubulin beta chain

Chain FL: 97%



- Molecule 153: Tubulin beta chain

Chain FN: 97%



- Molecule 153: Tubulin beta chain

Chain FP: 97%



- Molecule 153: Tubulin beta chain

Chain FR: 97%



- Molecule 153: Tubulin beta chain

Chain FT: 97%



- Molecule 153: Tubulin beta chain

Chain FV: 97%



- Molecule 153: Tubulin beta chain

Chain FX: 96%



- Molecule 153: Tubulin beta chain

Chain FZ: 97%



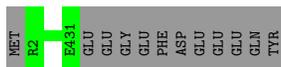
- Molecule 153: Tubulin beta chain

Chain GB: 97%



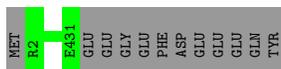
- Molecule 153: Tubulin beta chain

Chain GD: 97%



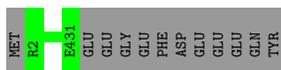
- Molecule 153: Tubulin beta chain

Chain GF: 97%



- Molecule 153: Tubulin beta chain

Chain GH: 97%



- Molecule 153: Tubulin beta chain

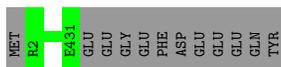
Chain GJ: 97%



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



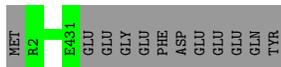
• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain





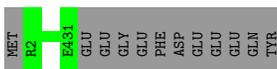
- Molecule 153: Tubulin beta chain

Chain GZ: 97%



- Molecule 153: Tubulin beta chain

Chain HB: 97%



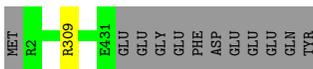
- Molecule 153: Tubulin beta chain

Chain HD: 97%



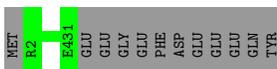
- Molecule 153: Tubulin beta chain

Chain HF: 97%



- Molecule 153: Tubulin beta chain

Chain HH: 97%



- Molecule 153: Tubulin beta chain

Chain HJ: 97%



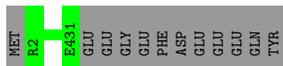
- Molecule 153: Tubulin beta chain

Chain HL: 97%



- Molecule 153: Tubulin beta chain

Chain HN: 97%



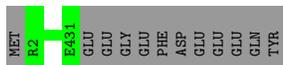
- Molecule 153: Tubulin beta chain

Chain HP: 97%



- Molecule 153: Tubulin beta chain

Chain HR: 97%



- Molecule 153: Tubulin beta chain

Chain HT: 97%



- Molecule 153: Tubulin beta chain

Chain HV: 97%



- Molecule 153: Tubulin beta chain

Chain HX: 97%



- Molecule 153: Tubulin beta chain

Chain HZ: 97%



- Molecule 153: Tubulin beta chain

Chain IB: 97%



- Molecule 153: Tubulin beta chain

Chain ID: 97%



- Molecule 153: Tubulin beta chain

Chain IF: 97%



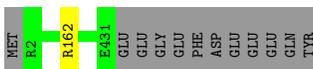
- Molecule 153: Tubulin beta chain

Chain IH: 97%



- Molecule 153: Tubulin beta chain

Chain IJ: 97%



- Molecule 153: Tubulin beta chain

Chain IL: 97%



- Molecule 153: Tubulin beta chain

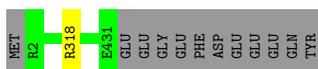
Chain IN: 97%



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain

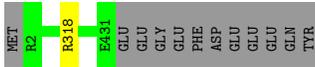


• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain





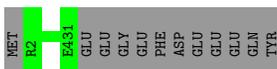
- Molecule 153: Tubulin beta chain

Chain JD: 97%



- Molecule 153: Tubulin beta chain

Chain JF: 97%



- Molecule 153: Tubulin beta chain

Chain JG: 97%



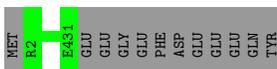
- Molecule 153: Tubulin beta chain

Chain JI: 97%



- Molecule 153: Tubulin beta chain

Chain JK: 97%



- Molecule 153: Tubulin beta chain

Chain JM: 97%



- Molecule 153: Tubulin beta chain

Chain JO: 97%



- Molecule 153: Tubulin beta chain

Chain JQ: 97%



- Molecule 153: Tubulin beta chain

Chain JS: 97%



- Molecule 153: Tubulin beta chain

Chain JU: 97%



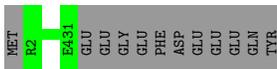
- Molecule 153: Tubulin beta chain

Chain JW: 97%



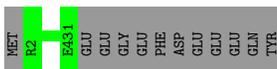
- Molecule 153: Tubulin beta chain

Chain JY: 97%



- Molecule 153: Tubulin beta chain

Chain KA: 97%



- Molecule 153: Tubulin beta chain

Chain KC: 97%



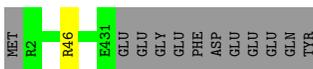
- Molecule 153: Tubulin beta chain

Chain KE: 97%



- Molecule 153: Tubulin beta chain

Chain KG: 97%



- Molecule 153: Tubulin beta chain

Chain KI: 97%



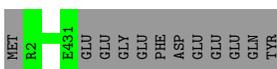
- Molecule 153: Tubulin beta chain

Chain KK: 97%



- Molecule 153: Tubulin beta chain

Chain KM: 97%



- Molecule 153: Tubulin beta chain

Chain KO: 97%



- Molecule 153: Tubulin beta chain

Chain KQ: 97%



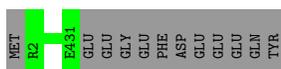
- Molecule 153: Tubulin beta chain

Chain KS: 97%



- Molecule 153: Tubulin beta chain

Chain KU: 97%



- Molecule 153: Tubulin beta chain

Chain KW: 97%



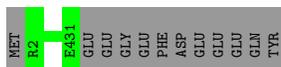
- Molecule 153: Tubulin beta chain

Chain KY: 97%



- Molecule 153: Tubulin beta chain

Chain LA: 97%



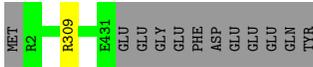
- Molecule 153: Tubulin beta chain

Chain LC: 97%



- Molecule 153: Tubulin beta chain

Chain LE: 97%



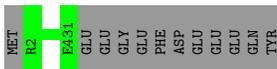
- Molecule 153: Tubulin beta chain

Chain LG: 97%



- Molecule 153: Tubulin beta chain

Chain LI: 97%



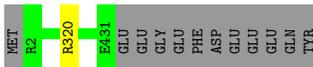
- Molecule 153: Tubulin beta chain

Chain LK: 97%



- Molecule 153: Tubulin beta chain

Chain LM: 97%



- Molecule 153: Tubulin beta chain

Chain LO: 97%



- Molecule 153: Tubulin beta chain

Chain LQ: 97%



- Molecule 153: Tubulin beta chain

Chain LS: 97%



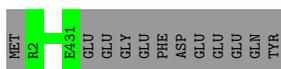
- Molecule 153: Tubulin beta chain

Chain LU: 97%



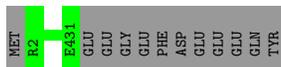
- Molecule 153: Tubulin beta chain

Chain LW: 97%



- Molecule 153: Tubulin beta chain

Chain LY: 97%



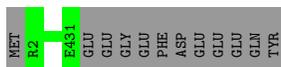
- Molecule 153: Tubulin beta chain

Chain MA: 97%



- Molecule 153: Tubulin beta chain

Chain MC: 97%



- Molecule 153: Tubulin beta chain

Chain ME: 97%



- Molecule 153: Tubulin beta chain

Chain MG: 97%



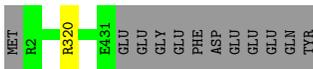
- Molecule 153: Tubulin beta chain

Chain MI: 97%



- Molecule 153: Tubulin beta chain

Chain MK: 97%



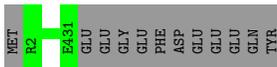
- Molecule 153: Tubulin beta chain

Chain MM: 97%



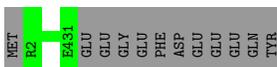
- Molecule 153: Tubulin beta chain

Chain MO: 97%



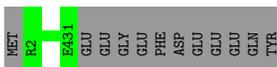
- Molecule 153: Tubulin beta chain

Chain MQ: 97%



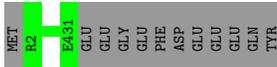
- Molecule 153: Tubulin beta chain

Chain MU: 97%

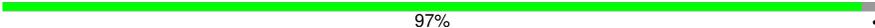


- Molecule 153: Tubulin beta chain

Chain MW: 97%

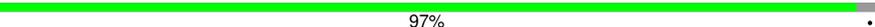


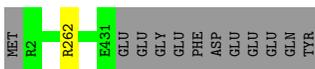
- Molecule 153: Tubulin beta chain

Chain MY:  97%



- Molecule 153: Tubulin beta chain

Chain NA:  97%



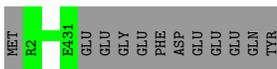
- Molecule 153: Tubulin beta chain

Chain NC:  97%



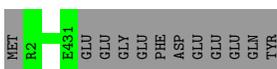
- Molecule 153: Tubulin beta chain

Chain NE:  97%



- Molecule 153: Tubulin beta chain

Chain NG:  97%

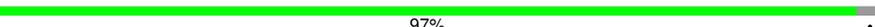


- Molecule 153: Tubulin beta chain

Chain NI:  97%



- Molecule 153: Tubulin beta chain

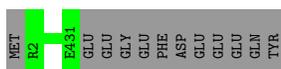
Chain NK:  97%



• Molecule 153: Tubulin beta chain



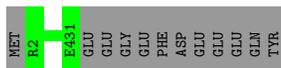
• Molecule 153: Tubulin beta chain



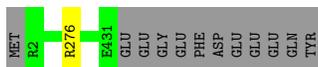
• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain

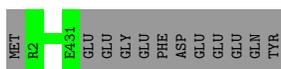




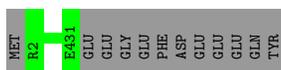
• Molecule 153: Tubulin beta chain



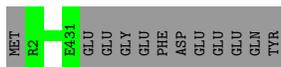
• Molecule 153: Tubulin beta chain



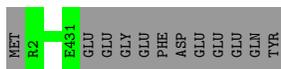
• Molecule 153: Tubulin beta chain



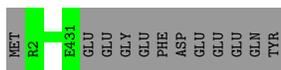
• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain

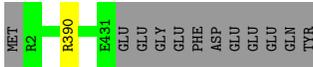


• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain





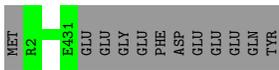
- Molecule 153: Tubulin beta chain

Chain OQ: 97%



- Molecule 153: Tubulin beta chain

Chain OS: 97%



- Molecule 153: Tubulin beta chain

Chain OU: 97%



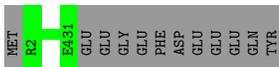
- Molecule 153: Tubulin beta chain

Chain OW: 97%



- Molecule 153: Tubulin beta chain

Chain OY: 97%



- Molecule 153: Tubulin beta chain

Chain PA: 97%



- Molecule 153: Tubulin beta chain

Chain PD: 97%



- Molecule 153: Tubulin beta chain

Chain PF: 97%



- Molecule 153: Tubulin beta chain

Chain PH: 96%



- Molecule 153: Tubulin beta chain

Chain PJ: 97%



- Molecule 153: Tubulin beta chain

Chain PL: 97%



- Molecule 153: Tubulin beta chain

Chain PN: 97%



- Molecule 153: Tubulin beta chain

Chain PP: 97%



- Molecule 153: Tubulin beta chain

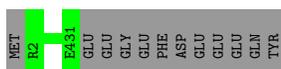
Chain PR: 97%



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



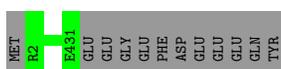
• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain





- Molecule 153: Tubulin beta chain

Chain QH: 97%



- Molecule 153: Tubulin beta chain

Chain QJ: 97%



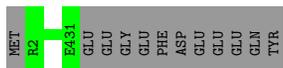
- Molecule 153: Tubulin beta chain

Chain QL: 97%



- Molecule 153: Tubulin beta chain

Chain QN: 97%



- Molecule 153: Tubulin beta chain

Chain QP: 97%



- Molecule 153: Tubulin beta chain

Chain QR: 97%



- Molecule 153: Tubulin beta chain

Chain QT: 97%



- Molecule 153: Tubulin beta chain

Chain QV: 97%



- Molecule 153: Tubulin beta chain

Chain QX: 97%



- Molecule 153: Tubulin beta chain

Chain QZ: 97%



- Molecule 153: Tubulin beta chain

Chain RB: 97%



- Molecule 153: Tubulin beta chain

Chain RD: 97%



- Molecule 153: Tubulin beta chain

Chain RF: 97%



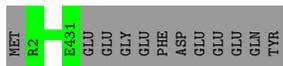
- Molecule 153: Tubulin beta chain

Chain RH: 97%



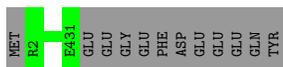
- Molecule 153: Tubulin beta chain

Chain RJ: 97%



- Molecule 153: Tubulin beta chain

Chain RL: 97%



- Molecule 153: Tubulin beta chain

Chain RN: 97%



- Molecule 153: Tubulin beta chain

Chain RP: 97%



- Molecule 153: Tubulin beta chain

Chain RR: 97%



- Molecule 153: Tubulin beta chain

Chain RT: 97%



- Molecule 153: Tubulin beta chain

Chain RV: 97%



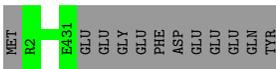
- Molecule 153: Tubulin beta chain

Chain RX: 97%



- Molecule 153: Tubulin beta chain

Chain RZ: 97%



- Molecule 153: Tubulin beta chain

Chain SB: 97%



- Molecule 153: Tubulin beta chain

Chain SD: 97%



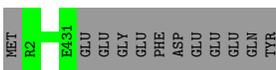
- Molecule 153: Tubulin beta chain

Chain SF: 97%



- Molecule 153: Tubulin beta chain

Chain SH: 97%



- Molecule 153: Tubulin beta chain

Chain SJ: 97%



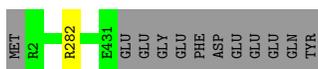
- Molecule 153: Tubulin beta chain

Chain SL: 97%



- Molecule 153: Tubulin beta chain

Chain SN: 97%



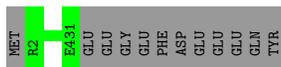
- Molecule 153: Tubulin beta chain

Chain SP: 97%



- Molecule 153: Tubulin beta chain

Chain SR: 97%



- Molecule 153: Tubulin beta chain

Chain ST: 97%



- Molecule 153: Tubulin beta chain

Chain SV: 97%



- Molecule 153: Tubulin beta chain

Chain SX: 97%



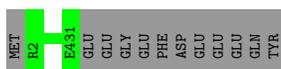
- Molecule 153: Tubulin beta chain

Chain SZ: 97%



- Molecule 153: Tubulin beta chain

Chain TB: 97%



- Molecule 153: Tubulin beta chain

Chain TD: 97%



- Molecule 153: Tubulin beta chain

Chain TF: 97%



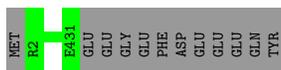
- Molecule 153: Tubulin beta chain

Chain TH: 97%



- Molecule 153: Tubulin beta chain

Chain TJ: 97%



- Molecule 153: Tubulin beta chain

Chain TL: 97%



- Molecule 153: Tubulin beta chain

Chain TN: 97%



- Molecule 153: Tubulin beta chain

Chain TP: 97%



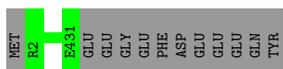
- Molecule 153: Tubulin beta chain

Chain TS: 97%



- Molecule 153: Tubulin beta chain

Chain TU: 97%



- Molecule 153: Tubulin beta chain

Chain TW: 97%



- Molecule 153: Tubulin beta chain

Chain TY: 97%



- Molecule 153: Tubulin beta chain

Chain UA: 97%



- Molecule 153: Tubulin beta chain

Chain UC: 97%



- Molecule 153: Tubulin beta chain

Chain UE: 97%



- Molecule 153: Tubulin beta chain

Chain UG: 97%



- Molecule 153: Tubulin beta chain

Chain UI: 97%



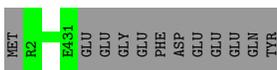
- Molecule 153: Tubulin beta chain

Chain UK: 97%



- Molecule 153: Tubulin beta chain

Chain UM: 97%



- Molecule 153: Tubulin beta chain

Chain UO: 97%



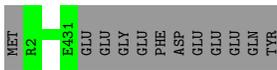
- Molecule 153: Tubulin beta chain

Chain UQ: 97%



- Molecule 153: Tubulin beta chain

Chain US: 97%



- Molecule 153: Tubulin beta chain

Chain UU: 97%



- Molecule 153: Tubulin beta chain

Chain UX: 97%



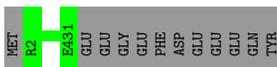
- Molecule 153: Tubulin beta chain

Chain UZ: 97%



- Molecule 153: Tubulin beta chain

Chain VB: 97%



- Molecule 153: Tubulin beta chain

Chain VD: 96%



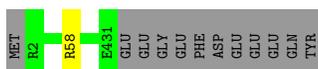
- Molecule 153: Tubulin beta chain

Chain VF: 97%



- Molecule 153: Tubulin beta chain

Chain VH: 97%



- Molecule 153: Tubulin beta chain

Chain VJ: 97%



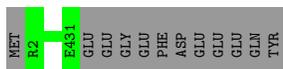
- Molecule 153: Tubulin beta chain

Chain VL: 97%



- Molecule 153: Tubulin beta chain

Chain VN: 97%



- Molecule 153: Tubulin beta chain

Chain VP: 96%



- Molecule 153: Tubulin beta chain

Chain VR: 97%



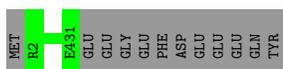
- Molecule 153: Tubulin beta chain

Chain VT: 97%



- Molecule 153: Tubulin beta chain

Chain VV: 97%



- Molecule 153: Tubulin beta chain

Chain VX: 97%



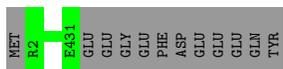
- Molecule 153: Tubulin beta chain

Chain VZ: 97%



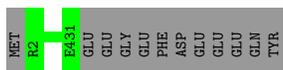
- Molecule 153: Tubulin beta chain

Chain WB: 97%



- Molecule 153: Tubulin beta chain

Chain WD: 97%



- Molecule 153: Tubulin beta chain

Chain WF: 97%



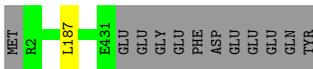
- Molecule 153: Tubulin beta chain

Chain WH: 97%



- Molecule 153: Tubulin beta chain

Chain WJ: 97%



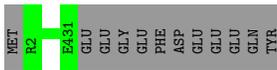
- Molecule 153: Tubulin beta chain

Chain WL: 97%



- Molecule 153: Tubulin beta chain

Chain WN: 97%



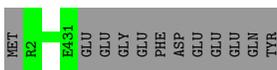
- Molecule 153: Tubulin beta chain

Chain WP: 97%



- Molecule 153: Tubulin beta chain

Chain WR: 97%



- Molecule 153: Tubulin beta chain

Chain WT: 97%



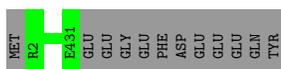
- Molecule 153: Tubulin beta chain

Chain WV: 97%



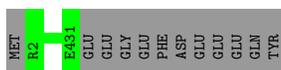
- Molecule 153: Tubulin beta chain

Chain WX: 97%



- Molecule 153: Tubulin beta chain

Chain WZ: 97%



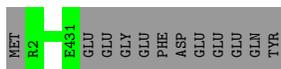
- Molecule 153: Tubulin beta chain

Chain XB: 97%



- Molecule 153: Tubulin beta chain

Chain XD: 97%



- Molecule 153: Tubulin beta chain

Chain XF: 97%



- Molecule 153: Tubulin beta chain

Chain XH: 97%



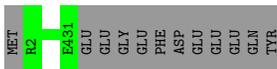
- Molecule 153: Tubulin beta chain

Chain XJ: 97%



- Molecule 153: Tubulin beta chain

Chain XL: 97%



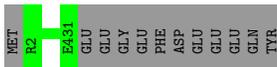
- Molecule 153: Tubulin beta chain

Chain XN: 97%



- Molecule 153: Tubulin beta chain

Chain XP: 97%



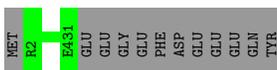
- Molecule 153: Tubulin beta chain

Chain XR: 97%



- Molecule 153: Tubulin beta chain

Chain XT: 97%



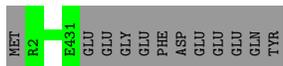
- Molecule 153: Tubulin beta chain

Chain XV: 97%



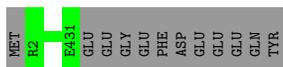
- Molecule 153: Tubulin beta chain

Chain XX: 97%



- Molecule 153: Tubulin beta chain

Chain XZ: 97%



- Molecule 153: Tubulin beta chain

Chain YB: 97%



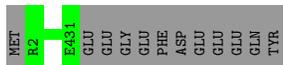
- Molecule 153: Tubulin beta chain

Chain YD: 97%



- Molecule 153: Tubulin beta chain

Chain YF: 97%



- Molecule 153: Tubulin beta chain

Chain YH: 97%



- Molecule 153: Tubulin beta chain

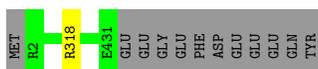
Chain YK: 97%



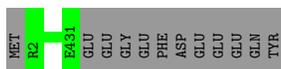
• Molecule 153: Tubulin beta chain



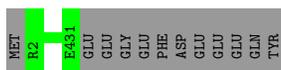
• Molecule 153: Tubulin beta chain



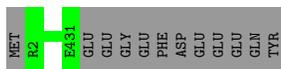
• Molecule 153: Tubulin beta chain



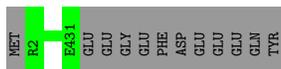
• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain



• Molecule 153: Tubulin beta chain





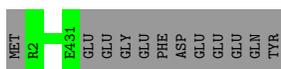
- Molecule 153: Tubulin beta chain

Chain ZA: 97%



- Molecule 153: Tubulin beta chain

Chain ZC: 97%



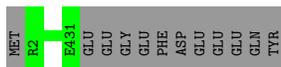
- Molecule 153: Tubulin beta chain

Chain ZE: 97%



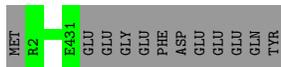
- Molecule 153: Tubulin beta chain

Chain ZG: 97%



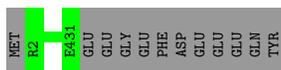
- Molecule 153: Tubulin beta chain

Chain ZI: 97%



- Molecule 153: Tubulin beta chain

Chain ZK: 97%



- Molecule 153: Tubulin beta chain

Chain ZM: 97%



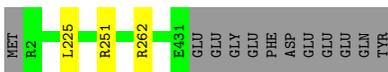
- Molecule 153: Tubulin beta chain

Chain ZO: 97%



- Molecule 153: Tubulin beta chain

Chain ZQ: 97%



- Molecule 153: Tubulin beta chain

Chain ZS: 97%



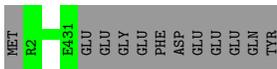
- Molecule 153: Tubulin beta chain

Chain ZU: 97%



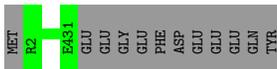
- Molecule 153: Tubulin beta chain

Chain ZW: 97%



- Molecule 153: Tubulin beta chain

Chain ZY: 97%

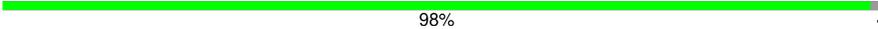


- Molecule 154: Tubulin alpha chain

Chain AB: 98%

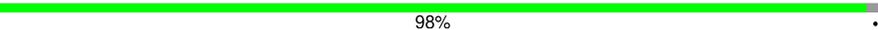


- Molecule 154: Tubulin alpha chain

Chain AD:  98%

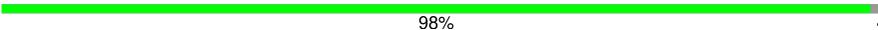


- Molecule 154: Tubulin alpha chain

Chain AF:  98%



- Molecule 154: Tubulin alpha chain

Chain AH:  98%



- Molecule 154: Tubulin alpha chain

Chain AJ:  98%



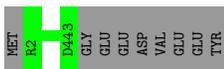
- Molecule 154: Tubulin alpha chain

Chain AL:  98%



- Molecule 154: Tubulin alpha chain

Chain AN:  98%



- Molecule 154: Tubulin alpha chain

Chain AP:  98%



- Molecule 154: Tubulin alpha chain

Chain AR: 98%



- Molecule 154: Tubulin alpha chain

Chain AT: 98%



- Molecule 154: Tubulin alpha chain

Chain AV: 98%



- Molecule 154: Tubulin alpha chain

Chain AX: 98%



- Molecule 154: Tubulin alpha chain

Chain AZ: 98%



- Molecule 154: Tubulin alpha chain

Chain Ab: 98%

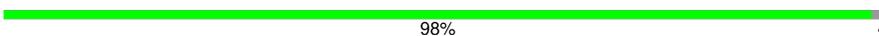


- Molecule 154: Tubulin alpha chain

Chain Ad: 98%

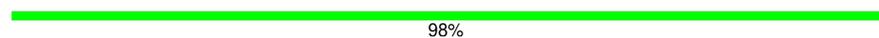


- Molecule 154: Tubulin alpha chain

Chain Af:  98%

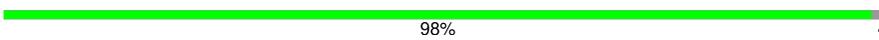


- Molecule 154: Tubulin alpha chain

Chain Ah:  98%



- Molecule 154: Tubulin alpha chain

Chain Aj:  98%

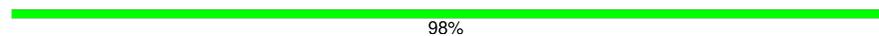


- Molecule 154: Tubulin alpha chain

Chain Al:  98%

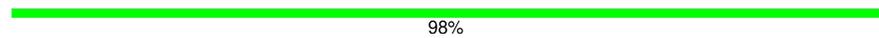


- Molecule 154: Tubulin alpha chain

Chain An:  98%

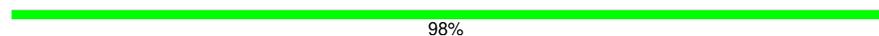


- Molecule 154: Tubulin alpha chain

Chain Ap:  98%



- Molecule 154: Tubulin alpha chain

Chain BB:  98%



- Molecule 154: Tubulin alpha chain

Chain BD: 98%



- Molecule 154: Tubulin alpha chain

Chain BF: 98%



- Molecule 154: Tubulin alpha chain

Chain BH: 98%



- Molecule 154: Tubulin alpha chain

Chain BJ: 98%



- Molecule 154: Tubulin alpha chain

Chain BL: 98%



- Molecule 154: Tubulin alpha chain

Chain BN: 98%



- Molecule 154: Tubulin alpha chain

Chain BP: 98%



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



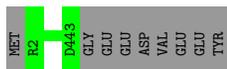
• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain

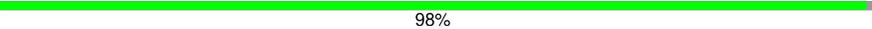


• Molecule 154: Tubulin alpha chain



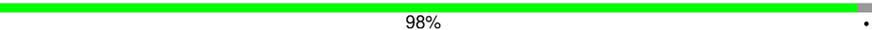


- Molecule 154: Tubulin alpha chain

Chain CF:  98%



- Molecule 154: Tubulin alpha chain

Chain CI:  98%

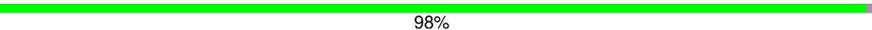


- Molecule 154: Tubulin alpha chain

Chain CJ:  98%



- Molecule 154: Tubulin alpha chain

Chain CL:  98%

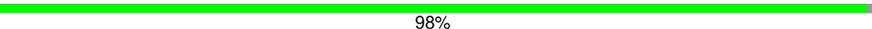


- Molecule 154: Tubulin alpha chain

Chain CN:  98%



- Molecule 154: Tubulin alpha chain

Chain CP:  98%



- Molecule 154: Tubulin alpha chain

Chain CR:  98%



- Molecule 154: Tubulin alpha chain

Chain CT: 97%



- Molecule 154: Tubulin alpha chain

Chain CV: 98%



- Molecule 154: Tubulin alpha chain

Chain CX: 98%



- Molecule 154: Tubulin alpha chain

Chain CZ: 98%



- Molecule 154: Tubulin alpha chain

Chain DB: 98%



- Molecule 154: Tubulin alpha chain

Chain DD: 98%



- Molecule 154: Tubulin alpha chain

Chain DF: 98%



- Molecule 154: Tubulin alpha chain

Chain DH: 98%



- Molecule 154: Tubulin alpha chain

Chain DJ: 98%



- Molecule 154: Tubulin alpha chain

Chain DL: 98%



- Molecule 154: Tubulin alpha chain

Chain DM: 98%



- Molecule 154: Tubulin alpha chain

Chain DO: 98%



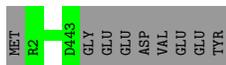
- Molecule 154: Tubulin alpha chain

Chain DQ: 98%



- Molecule 154: Tubulin alpha chain

Chain DS: 98%



- Molecule 154: Tubulin alpha chain

Chain DU: 98%



- Molecule 154: Tubulin alpha chain

Chain DW: 98%



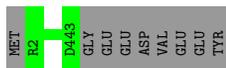
- Molecule 154: Tubulin alpha chain

Chain DY: 98%



- Molecule 154: Tubulin alpha chain

Chain EA: 98%



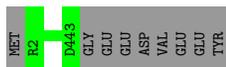
- Molecule 154: Tubulin alpha chain

Chain EC: 98%



- Molecule 154: Tubulin alpha chain

Chain EE: 98%

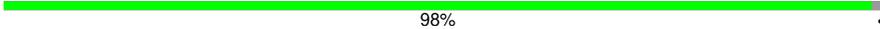


- Molecule 154: Tubulin alpha chain

Chain EG: 98%

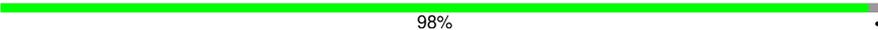


- Molecule 154: Tubulin alpha chain

Chain EI:  98%



- Molecule 154: Tubulin alpha chain

Chain EK:  98%

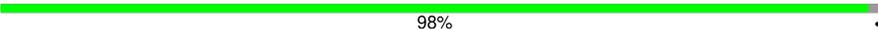


- Molecule 154: Tubulin alpha chain

Chain EM:  98%

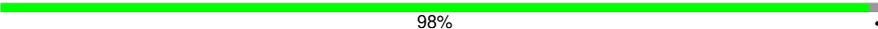


- Molecule 154: Tubulin alpha chain

Chain EO:  98%



- Molecule 154: Tubulin alpha chain

Chain EQ:  98%

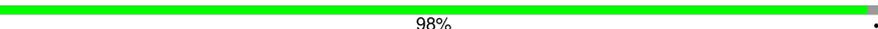


- Molecule 154: Tubulin alpha chain

Chain ES:  98%

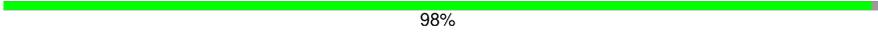


- Molecule 154: Tubulin alpha chain

Chain EU:  98%

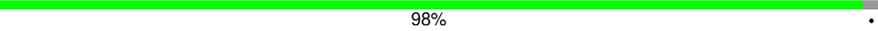


- Molecule 154: Tubulin alpha chain

Chain EW:  98%

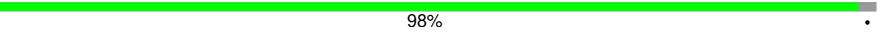


- Molecule 154: Tubulin alpha chain

Chain EY:  98%

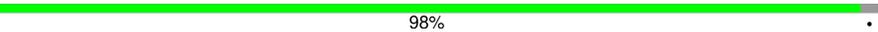


- Molecule 154: Tubulin alpha chain

Chain FA:  98%

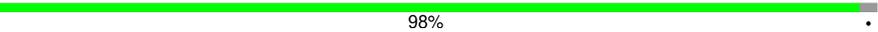


- Molecule 154: Tubulin alpha chain

Chain FC:  98%

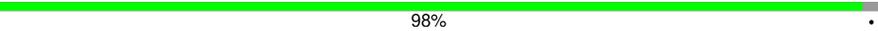


- Molecule 154: Tubulin alpha chain

Chain FE:  98%



- Molecule 154: Tubulin alpha chain

Chain FG:  98%



- Molecule 154: Tubulin alpha chain

Chain FI:  97%



- Molecule 154: Tubulin alpha chain

Chain FK: 98%



- Molecule 154: Tubulin alpha chain

Chain FM: 98%



- Molecule 154: Tubulin alpha chain

Chain FO: 98%



- Molecule 154: Tubulin alpha chain

Chain FQ: 98%



- Molecule 154: Tubulin alpha chain

Chain FS: 98%



- Molecule 154: Tubulin alpha chain

Chain FW: 98%



- Molecule 154: Tubulin alpha chain

Chain FY: 98%



- Molecule 154: Tubulin alpha chain

Chain GA: 98%



- Molecule 154: Tubulin alpha chain

Chain GC: 98%



- Molecule 154: Tubulin alpha chain

Chain GE: 98%



- Molecule 154: Tubulin alpha chain

Chain GG: 98%



- Molecule 154: Tubulin alpha chain

Chain GI: 98%



- Molecule 154: Tubulin alpha chain

Chain GK: 98%



- Molecule 154: Tubulin alpha chain

Chain GM: 98%



- Molecule 154: Tubulin alpha chain

Chain GO: 98%



- Molecule 154: Tubulin alpha chain

Chain GQ: 98%



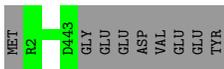
- Molecule 154: Tubulin alpha chain

Chain GS: 98%



- Molecule 154: Tubulin alpha chain

Chain GU: 98%



- Molecule 154: Tubulin alpha chain

Chain GW: 98%



- Molecule 154: Tubulin alpha chain

Chain HA: 97%



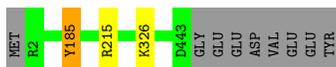
- Molecule 154: Tubulin alpha chain

Chain HC: 98%



- Molecule 154: Tubulin alpha chain

Chain HE: 97%



- Molecule 154: Tubulin alpha chain

Chain HG: 98%



- Molecule 154: Tubulin alpha chain

Chain HI: 98%



- Molecule 154: Tubulin alpha chain

Chain HK: 98%



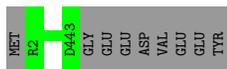
- Molecule 154: Tubulin alpha chain

Chain HM: 98%



- Molecule 154: Tubulin alpha chain

Chain HO: 98%



- Molecule 154: Tubulin alpha chain

Chain HQ: 98%



- Molecule 154: Tubulin alpha chain

Chain HS: 98%



- Molecule 154: Tubulin alpha chain

Chain HU: 98%



- Molecule 154: Tubulin alpha chain

Chain HW: 98%



- Molecule 154: Tubulin alpha chain

Chain HY: 98%



- Molecule 154: Tubulin alpha chain

Chain IA: 98%



- Molecule 154: Tubulin alpha chain

Chain IE: 98%



- Molecule 154: Tubulin alpha chain

Chain IG: 98%



- Molecule 154: Tubulin alpha chain

Chain II: 97%



- Molecule 154: Tubulin alpha chain

Chain IK: 98%



- Molecule 154: Tubulin alpha chain

Chain IM: 98%



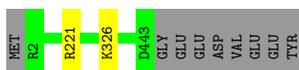
- Molecule 154: Tubulin alpha chain

Chain IO: 97%



- Molecule 154: Tubulin alpha chain

Chain IQ: 98%



- Molecule 154: Tubulin alpha chain

Chain IS: 98%



- Molecule 154: Tubulin alpha chain

Chain IU: 97%



- Molecule 154: Tubulin alpha chain

Chain IW: 98%



- Molecule 154: Tubulin alpha chain

Chain IY: 98%



- Molecule 154: Tubulin alpha chain

Chain JA: 97%



- Molecule 154: Tubulin alpha chain

Chain JC: 98%



- Molecule 154: Tubulin alpha chain

Chain JE: 98%



- Molecule 154: Tubulin alpha chain

Chain JH: 98%



- Molecule 154: Tubulin alpha chain

Chain JJ: 98%



- Molecule 154: Tubulin alpha chain

Chain JL: 98%



- Molecule 154: Tubulin alpha chain

Chain JN: 98%



- Molecule 154: Tubulin alpha chain

Chain JP: 98%



- Molecule 154: Tubulin alpha chain

Chain JR: 98%



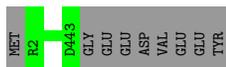
- Molecule 154: Tubulin alpha chain

Chain JT: 98%



- Molecule 154: Tubulin alpha chain

Chain JV: 98%



- Molecule 154: Tubulin alpha chain

Chain JX: 98%



- Molecule 154: Tubulin alpha chain

Chain JZ: 98%



- Molecule 154: Tubulin alpha chain

Chain KB: 98%



- Molecule 154: Tubulin alpha chain

Chain KD: 97%



- Molecule 154: Tubulin alpha chain

Chain KF: 98%



- Molecule 154: Tubulin alpha chain

Chain KH: 98%



- Molecule 154: Tubulin alpha chain

Chain KJ: 98%



- Molecule 154: Tubulin alpha chain

Chain KL: 98%



- Molecule 154: Tubulin alpha chain

Chain KN: 98%



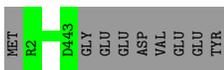
- Molecule 154: Tubulin alpha chain

Chain KP: 98%



- Molecule 154: Tubulin alpha chain

Chain KR: 98%



- Molecule 154: Tubulin alpha chain

Chain KT: 98%



- Molecule 154: Tubulin alpha chain

Chain KV: 98%



- Molecule 154: Tubulin alpha chain

Chain KX: 98%



- Molecule 154: Tubulin alpha chain

Chain KZ: 98%



- Molecule 154: Tubulin alpha chain

Chain LB: 98%



- Molecule 154: Tubulin alpha chain

Chain LD: 98%



- Molecule 154: Tubulin alpha chain

Chain LF: 98%



- Molecule 154: Tubulin alpha chain

Chain LH: 98%



- Molecule 154: Tubulin alpha chain

Chain LJ: 98%



- Molecule 154: Tubulin alpha chain

Chain LL: 98%



- Molecule 154: Tubulin alpha chain

Chain LN: 98%



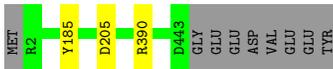
- Molecule 154: Tubulin alpha chain

Chain LP: 98%



- Molecule 154: Tubulin alpha chain

Chain LR: 97%



- Molecule 154: Tubulin alpha chain

Chain LT: 98%



- Molecule 154: Tubulin alpha chain

Chain LV: 98%



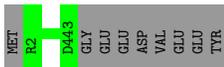
- Molecule 154: Tubulin alpha chain

Chain LX: 98%



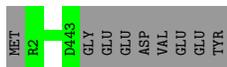
- Molecule 154: Tubulin alpha chain

Chain LZ: 98%



- Molecule 154: Tubulin alpha chain

Chain MB: 98%



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain





- Molecule 154: Tubulin alpha chain

Chain MR: 98%



- Molecule 154: Tubulin alpha chain

Chain MT: 98%



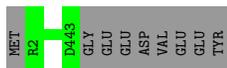
- Molecule 154: Tubulin alpha chain

Chain MV: 98%



- Molecule 154: Tubulin alpha chain

Chain MX: 98%



- Molecule 154: Tubulin alpha chain

Chain MZ: 98%



- Molecule 154: Tubulin alpha chain

Chain NB: 98%



- Molecule 154: Tubulin alpha chain

Chain ND: 98%



- Molecule 154: Tubulin alpha chain

Chain NF: 98%



- Molecule 154: Tubulin alpha chain

Chain NH: 98%



- Molecule 154: Tubulin alpha chain

Chain NJ: 98%



- Molecule 154: Tubulin alpha chain

Chain NL: 98%



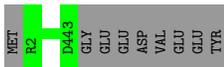
- Molecule 154: Tubulin alpha chain

Chain NN: 98%



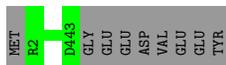
- Molecule 154: Tubulin alpha chain

Chain NP: 98%

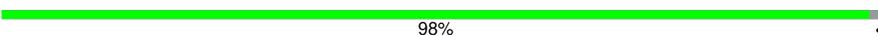


- Molecule 154: Tubulin alpha chain

Chain NR: 98%

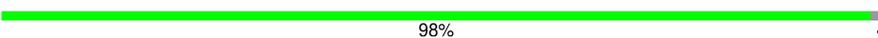


- Molecule 154: Tubulin alpha chain

Chain NT:  98%

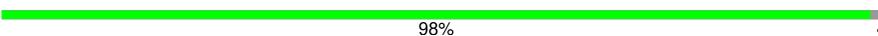


- Molecule 154: Tubulin alpha chain

Chain NV:  98%



- Molecule 154: Tubulin alpha chain

Chain NX:  98%

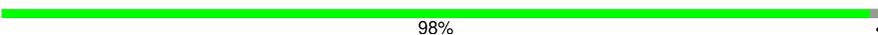


- Molecule 154: Tubulin alpha chain

Chain NZ:  98%

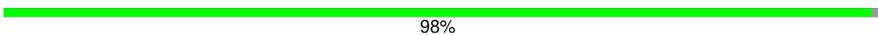


- Molecule 154: Tubulin alpha chain

Chain OB:  98%

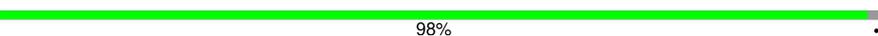


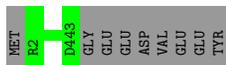
- Molecule 154: Tubulin alpha chain

Chain OD:  98%



- Molecule 154: Tubulin alpha chain

Chain OF:  98%



- Molecule 154: Tubulin alpha chain

Chain OH:  98%

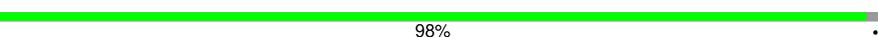


- Molecule 154: Tubulin alpha chain

Chain OJ:  98%



- Molecule 154: Tubulin alpha chain

Chain OL:  98%

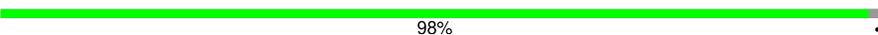


- Molecule 154: Tubulin alpha chain

Chain ON:  98%

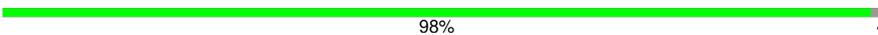


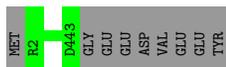
- Molecule 154: Tubulin alpha chain

Chain OP:  98%



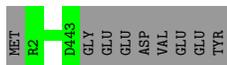
- Molecule 154: Tubulin alpha chain

Chain OR:  98%

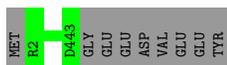


- Molecule 154: Tubulin alpha chain

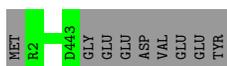
Chain OT:  98%



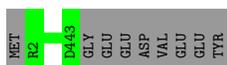
• Molecule 154: Tubulin alpha chain



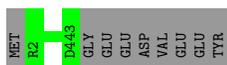
• Molecule 154: Tubulin alpha chain



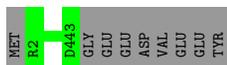
• Molecule 154: Tubulin alpha chain



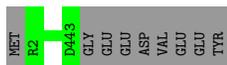
• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain





- Molecule 154: Tubulin alpha chain

Chain PK: 98%



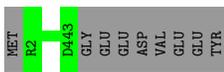
- Molecule 154: Tubulin alpha chain

Chain PM: 98%



- Molecule 154: Tubulin alpha chain

Chain PO: 98%



- Molecule 154: Tubulin alpha chain

Chain PQ: 98%



- Molecule 154: Tubulin alpha chain

Chain PS: 98%



- Molecule 154: Tubulin alpha chain

Chain PU: 98%



- Molecule 154: Tubulin alpha chain

Chain PW: 98%

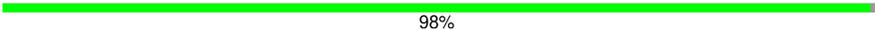


- Molecule 154: Tubulin alpha chain

Chain PY:  98%



- Molecule 154: Tubulin alpha chain

Chain QA:  98%



- Molecule 154: Tubulin alpha chain

Chain QC:  98%



- Molecule 154: Tubulin alpha chain

Chain QE:  98%

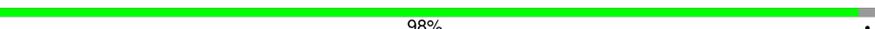


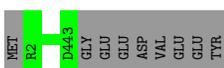
- Molecule 154: Tubulin alpha chain

Chain QG:  98%



- Molecule 154: Tubulin alpha chain

Chain QI:  98%



- Molecule 154: Tubulin alpha chain

Chain QK:  98%



- Molecule 154: Tubulin alpha chain

Chain QM: 98%



- Molecule 154: Tubulin alpha chain

Chain QO: 98%



- Molecule 154: Tubulin alpha chain

Chain QQ: 98%



- Molecule 154: Tubulin alpha chain

Chain QS: 98%



- Molecule 154: Tubulin alpha chain

Chain QU: 98%



- Molecule 154: Tubulin alpha chain

Chain QW: 98%



- Molecule 154: Tubulin alpha chain

Chain QY: 98%



• Molecule 154: Tubulin alpha chain



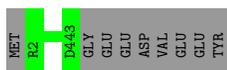
• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



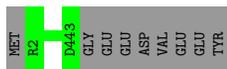
• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain

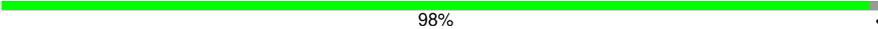


• Molecule 154: Tubulin alpha chain



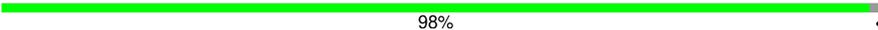


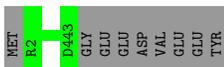
- Molecule 154: Tubulin alpha chain

Chain RO:  98%



- Molecule 154: Tubulin alpha chain

Chain RQ:  98%

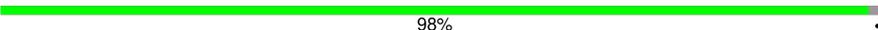


- Molecule 154: Tubulin alpha chain

Chain RS:  98%



- Molecule 154: Tubulin alpha chain

Chain RU:  98%



- Molecule 154: Tubulin alpha chain

Chain RW:  98%



- Molecule 154: Tubulin alpha chain

Chain RY:  98%

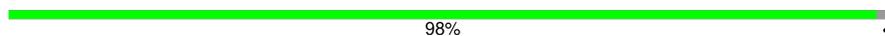


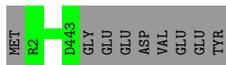
- Molecule 154: Tubulin alpha chain

Chain SA:  98%



- Molecule 154: Tubulin alpha chain

Chain SC:  98%

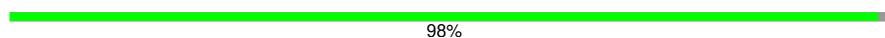


- Molecule 154: Tubulin alpha chain

Chain SE:  98%



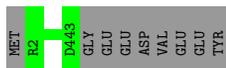
- Molecule 154: Tubulin alpha chain

Chain SG:  98%

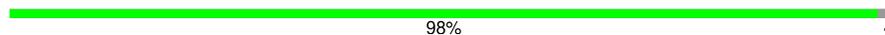


- Molecule 154: Tubulin alpha chain

Chain SI:  98%

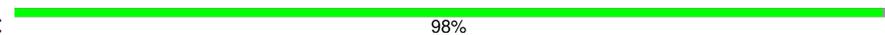


- Molecule 154: Tubulin alpha chain

Chain SK:  98%

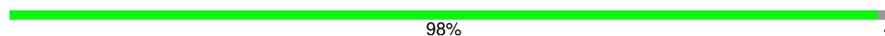


- Molecule 154: Tubulin alpha chain

Chain SM:  98%



- Molecule 154: Tubulin alpha chain

Chain SO:  98%



- Molecule 154: Tubulin alpha chain

Chain SQ: 98%



- Molecule 154: Tubulin alpha chain

Chain SS: 97%



- Molecule 154: Tubulin alpha chain

Chain SU: 97%



- Molecule 154: Tubulin alpha chain

Chain SW: 98%



- Molecule 154: Tubulin alpha chain

Chain SY: 98%



- Molecule 154: Tubulin alpha chain

Chain TA: 98%



- Molecule 154: Tubulin alpha chain

Chain TC: 98%



- Molecule 154: Tubulin alpha chain

Chain TE: 98%



- Molecule 154: Tubulin alpha chain

Chain TG: 97%



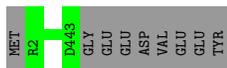
- Molecule 154: Tubulin alpha chain

Chain TI: 98%



- Molecule 154: Tubulin alpha chain

Chain TK: 98%



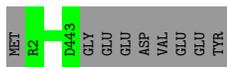
- Molecule 154: Tubulin alpha chain

Chain TM: 98%



- Molecule 154: Tubulin alpha chain

Chain TO: 98%

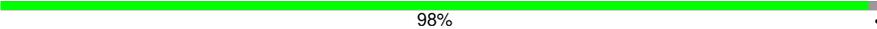


- Molecule 154: Tubulin alpha chain

Chain TQ: 98%

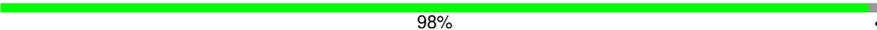


- Molecule 154: Tubulin alpha chain

Chain TR:  98%

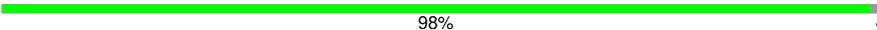


- Molecule 154: Tubulin alpha chain

Chain TT:  98%

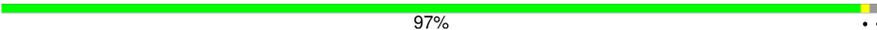


- Molecule 154: Tubulin alpha chain

Chain TV:  98%

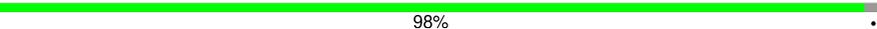


- Molecule 154: Tubulin alpha chain

Chain TX:  97%

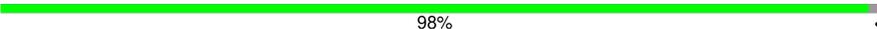


- Molecule 154: Tubulin alpha chain

Chain TZ:  98%



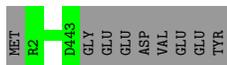
- Molecule 154: Tubulin alpha chain

Chain UB:  98%

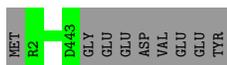


- Molecule 154: Tubulin alpha chain

Chain UD:  98%



• Molecule 154: Tubulin alpha chain



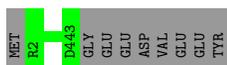
• Molecule 154: Tubulin alpha chain



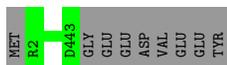
• Molecule 154: Tubulin alpha chain



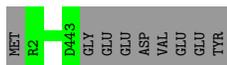
• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



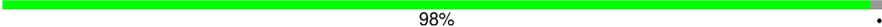


- Molecule 154: Tubulin alpha chain

Chain UT:  98%

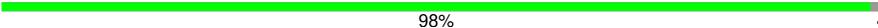


- Molecule 154: Tubulin alpha chain

Chain UW:  98%

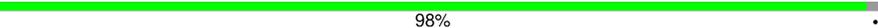


- Molecule 154: Tubulin alpha chain

Chain UY:  98%



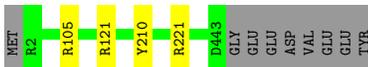
- Molecule 154: Tubulin alpha chain

Chain VA:  98%

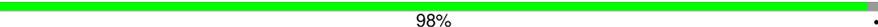


- Molecule 154: Tubulin alpha chain

Chain VC:  97%



- Molecule 154: Tubulin alpha chain

Chain VE:  98%

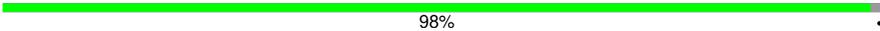


- Molecule 154: Tubulin alpha chain

Chain VG:  98%



- Molecule 154: Tubulin alpha chain

Chain VI:  98%



- Molecule 154: Tubulin alpha chain

Chain VK:  98%



- Molecule 154: Tubulin alpha chain

Chain VM:  98%



- Molecule 154: Tubulin alpha chain

Chain VO:  98%



- Molecule 154: Tubulin alpha chain

Chain VQ:  98%



- Molecule 154: Tubulin alpha chain

Chain VS:  98%

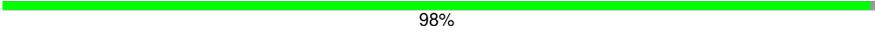


- Molecule 154: Tubulin alpha chain

Chain VU:  98%

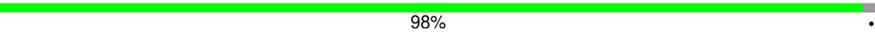


- Molecule 154: Tubulin alpha chain

Chain VW:  98%

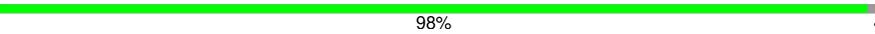


- Molecule 154: Tubulin alpha chain

Chain VY:  98%

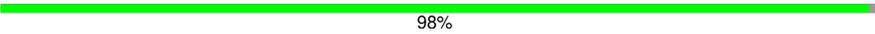


- Molecule 154: Tubulin alpha chain

Chain WA:  98%

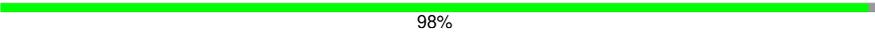


- Molecule 154: Tubulin alpha chain

Chain WC:  98%

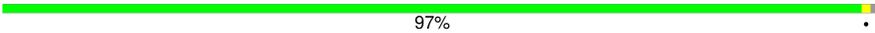


- Molecule 154: Tubulin alpha chain

Chain WE:  98%

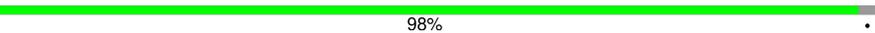


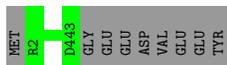
- Molecule 154: Tubulin alpha chain

Chain WG:  97%



- Molecule 154: Tubulin alpha chain

Chain WI:  98%



• Molecule 154: Tubulin alpha chain



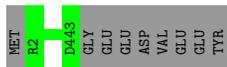
• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain



• Molecule 154: Tubulin alpha chain





- Molecule 154: Tubulin alpha chain

Chain WY: 98%



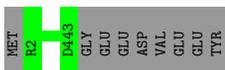
- Molecule 154: Tubulin alpha chain

Chain XA: 98%



- Molecule 154: Tubulin alpha chain

Chain XC: 98%



- Molecule 154: Tubulin alpha chain

Chain XE: 98%



- Molecule 154: Tubulin alpha chain

Chain XG: 98%



- Molecule 154: Tubulin alpha chain

Chain XI: 98%



- Molecule 154: Tubulin alpha chain

Chain XK: 98%



- Molecule 154: Tubulin alpha chain

Chain XM: 98%



- Molecule 154: Tubulin alpha chain

Chain XO: 98%



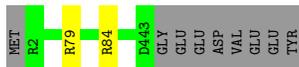
- Molecule 154: Tubulin alpha chain

Chain XQ: 98%



- Molecule 154: Tubulin alpha chain

Chain XS: 98%



- Molecule 154: Tubulin alpha chain

Chain XU: 98%



- Molecule 154: Tubulin alpha chain

Chain XW: 98%



- Molecule 154: Tubulin alpha chain

Chain XY: 98%



- Molecule 154: Tubulin alpha chain

Chain YA: 98%



- Molecule 154: Tubulin alpha chain

Chain YC: 98%



- Molecule 154: Tubulin alpha chain

Chain YE: 98%



- Molecule 154: Tubulin alpha chain

Chain YG: 98%



- Molecule 154: Tubulin alpha chain

Chain YJ: 98%



- Molecule 154: Tubulin alpha chain

Chain YL: 98%



- Molecule 154: Tubulin alpha chain

Chain YN: 98%



- Molecule 154: Tubulin alpha chain

Chain YP: 97%



- Molecule 154: Tubulin alpha chain

Chain YR: 98%



- Molecule 154: Tubulin alpha chain

Chain YT: 98%



- Molecule 154: Tubulin alpha chain

Chain YV: 98%



- Molecule 154: Tubulin alpha chain

Chain YX: 98%



- Molecule 154: Tubulin alpha chain

Chain YZ: 98%

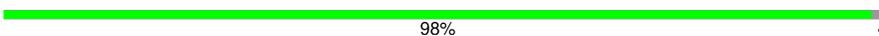


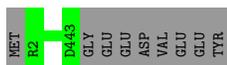
- Molecule 154: Tubulin alpha chain

Chain ZB: 98%

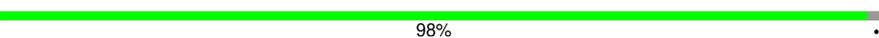


- Molecule 154: Tubulin alpha chain

Chain ZD:  98%

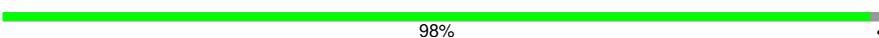


- Molecule 154: Tubulin alpha chain

Chain ZF:  98%



- Molecule 154: Tubulin alpha chain

Chain ZH:  98%

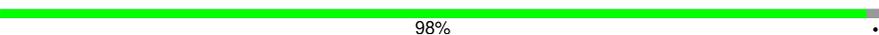


- Molecule 154: Tubulin alpha chain

Chain ZJ:  98%



- Molecule 154: Tubulin alpha chain

Chain ZL:  98%

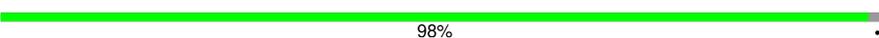


- Molecule 154: Tubulin alpha chain

Chain ZN:  98%



- Molecule 154: Tubulin alpha chain

Chain ZP:  98%



- Molecule 154: Tubulin alpha chain

Chain ZR: 98%



- Molecule 154: Tubulin alpha chain

Chain ZT: 98%



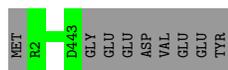
- Molecule 154: Tubulin alpha chain

Chain ZV: 98%



- Molecule 154: Tubulin alpha chain

Chain ZX: 98%



- Molecule 154: Tubulin alpha chain

Chain ZZ: 98%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	244497	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1600	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	81000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: ADP, MG, GTP, ATP, GDP, ZN

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	0A	0.52	0/5506	0.57	0/7437
1	0B	0.52	0/6100	0.56	0/8236
1	0C	0.52	0/6058	0.55	0/8179
1	0D	0.30	0/5506	0.58	2/7437 (0.0%)
1	0E	0.52	0/6100	0.58	1/8236 (0.0%)
1	0F	0.52	0/6058	0.55	0/8179
2	0G	0.29	0/6005	0.54	1/8131 (0.0%)
2	0H	0.28	0/6005	0.54	1/8131 (0.0%)
2	0I	0.28	0/6005	0.54	1/8131 (0.0%)
3	0J	0.29	0/5505	0.55	0/7432
3	0K	0.29	0/5505	0.55	0/7432
3	0L	0.30	0/5505	0.56	0/7432
4	0M	0.27	0/6276	0.56	2/8472 (0.0%)
4	0N	0.54	0/6276	0.59	0/8472
5	0O	0.35	0/1691	0.59	0/2245
5	0P	0.35	0/3171	0.59	0/4220
5	0Q	0.38	0/3156	0.63	3/4202 (0.1%)
5	0R	0.34	0/2063	0.58	1/2747 (0.0%)
5	0S	0.53	0/3053	0.51	0/4060
5	0T	0.55	0/2723	0.55	0/3626
6	0U	0.29	0/281	0.69	0/374
6	0V	0.32	0/3905	0.60	0/5194
6	0W	0.54	0/3905	0.53	0/5194
6	0X	0.32	0/2469	0.60	0/3280
7	0Y	0.35	0/1308	0.69	0/1742
7	0Z	0.34	0/3609	0.67	0/4794
7	1A	0.35	0/3609	0.67	0/4794
7	1B	0.31	0/1058	0.63	0/1404
8	0a	0.29	0/839	0.69	0/1121
8	0b	0.27	0/1172	0.62	0/1568
8	0c	0.54	0/1172	0.72	1/1568 (0.1%)
8	0d	0.27	0/1172	0.62	0/1568

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
8	0e	0.53	0/1172	0.62	1/1568 (0.1%)
8	0f	0.28	0/333	0.56	0/447
9	0g	0.29	0/655	0.66	0/877
9	0h	0.28	0/655	0.62	0/877
9	0i	0.28	0/655	0.60	0/877
9	0j	0.29	0/655	0.62	0/877
9	0k	0.29	0/655	0.67	0/877
9	0l	0.28	0/655	0.63	0/877
9	0m	0.28	0/655	0.60	0/877
9	0n	0.29	0/655	0.63	0/877
9	0o	0.28	0/655	0.66	0/877
9	0p	0.28	0/655	0.62	0/877
10	0q	0.38	0/744	0.68	1/1009 (0.1%)
11	0r	0.37	0/634	0.66	0/856
11	0s	0.34	0/1657	0.63	0/2247
12	0t	0.29	0/3583	0.61	0/4827
13	0u	0.27	0/3775	0.61	0/5102
14	0v	0.41	0/3471	0.73	1/4642 (0.0%)
14	0w	0.38	0/3998	0.67	1/5345 (0.0%)
15	0x	0.38	0/3445	0.65	2/4606 (0.0%)
15	0y	0.38	0/3727	0.64	2/4984 (0.0%)
16	0z	0.36	1/1888 (0.1%)	0.61	0/2555
17	1C	0.31	0/2642	0.53	1/3581 (0.0%)
17	1D	0.30	0/2642	0.53	1/3581 (0.0%)
17	1G	0.31	0/2642	0.53	1/3581 (0.0%)
18	1E	0.28	0/2741	0.55	1/3718 (0.0%)
18	1F	0.28	0/2741	0.55	1/3718 (0.0%)
19	1H	0.29	0/3398	0.52	0/4607
19	1I	0.29	0/3398	0.52	0/4607
20	1J	0.29	0/3352	0.53	0/4527
20	1K	0.29	0/3352	0.53	0/4527
21	1L	0.32	0/2503	0.55	0/3389
21	1M	0.29	0/2503	0.54	0/3389
22	1N	0.27	0/1285	0.53	0/1751
22	1O	0.27	0/1285	0.53	0/1751
23	1P	0.29	0/846	0.62	0/1129
23	1Q	0.29	0/846	0.61	0/1129
24	1R	0.29	0/1489	0.54	0/2011
24	1S	0.29	0/1489	0.54	0/2011
25	1T	0.28	0/2164	0.53	0/2952
25	1U	0.28	0/2164	0.53	0/2952
25	1V	0.28	0/2164	0.53	0/2952
26	1W	0.29	0/3791	0.52	0/5129

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
26	1X	0.35	0/3791	0.62	3/5129 (0.1%)
27	1Y	0.29	0/2994	0.54	1/4043 (0.0%)
27	1Z	0.30	0/2994	0.54	1/4043 (0.0%)
28	1a	0.34	0/4250	0.67	0/5670
29	1b	0.35	0/4329	0.70	3/5808 (0.1%)
30	1c	0.39	0/7870	0.69	4/10653 (0.0%)
31	1d	0.30	0/7708	0.62	4/10404 (0.0%)
32	1e	0.37	0/2786	0.72	3/3726 (0.1%)
33	1f	0.32	0/2763	0.69	3/3699 (0.1%)
34	1g	0.35	0/4802	0.63	3/6429 (0.0%)
35	1h	0.36	1/3627 (0.0%)	0.63	3/4861 (0.1%)
36	1i	0.32	0/4482	0.64	1/6018 (0.0%)
37	1j	0.32	0/3584	0.66	4/4779 (0.1%)
38	1k	0.31	0/3573	0.63	0/4784
39	1l	0.26	0/3117	0.55	1/4216 (0.0%)
40	1m	0.28	0/4124	0.57	0/5591
41	1n	0.28	0/3294	0.58	0/4417
42	1o	0.30	0/3353	0.60	1/4531 (0.0%)
43	1p	0.25	0/4497	0.48	0/6078
44	1r	0.30	0/11128	0.60	4/15062 (0.0%)
45	1t	0.31	0/10556	0.61	3/14234 (0.0%)
46	2A	0.29	0/2308	0.56	0/3114
46	2B	0.29	0/2308	0.56	0/3114
46	2C	0.29	0/1805	0.56	0/2432
47	2D	0.29	0/1956	0.58	1/2647 (0.0%)
47	2E	0.35	0/1956	0.63	1/2647 (0.0%)
47	2F	0.28	0/1956	0.56	0/2647
48	2G	0.29	0/2432	0.57	0/3302
48	2H	0.29	0/2432	0.57	0/3302
48	2I	0.29	0/2432	0.57	0/3302
49	2J	0.28	0/1923	0.52	0/2598
49	2K	0.28	0/1923	0.52	0/2598
49	2L	0.30	0/1923	0.53	0/2598
50	2M	0.28	0/1899	0.56	0/2574
50	2N	0.28	0/1899	0.56	0/2574
50	2O	0.27	0/1210	0.57	0/1635
51	2P	0.29	0/1316	0.56	1/1786 (0.1%)
51	2Q	0.31	0/1316	0.58	2/1786 (0.1%)
52	2R	0.28	0/2045	0.57	1/2779 (0.0%)
52	2S	0.27	0/2045	0.57	1/2779 (0.0%)
52	2T	0.34	0/2045	0.64	0/2779
53	2U	0.27	0/2366	0.54	0/3218
53	2V	0.53	0/3043	0.56	0/4136

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
53	2W	0.54	0/3043	0.60	1/4136 (0.0%)
54	2X	0.56	0/2984	0.64	4/4021 (0.1%)
54	2Y	0.31	0/2984	0.61	2/4021 (0.0%)
54	2Z	0.29	0/1010	0.61	0/1358
54	3D	0.27	0/816	0.58	0/1098
55	2a	0.34	0/2678	0.62	0/3598
55	2b	0.35	0/2678	0.65	1/3598 (0.0%)
55	2c	0.32	0/2678	0.58	0/3598
55	2d	0.32	0/2678	0.63	0/3598
56	2e	0.30	0/4031	0.62	0/5452
56	2f	0.32	0/4031	0.68	1/5452 (0.0%)
56	2g	0.30	0/4031	0.59	0/5452
56	2h	0.35	0/4031	0.70	4/5452 (0.1%)
57	2i	0.36	0/1427	0.84	3/1903 (0.2%)
57	2j	0.33	0/2382	0.73	0/3195
57	2k	0.37	0/1837	0.76	3/2464 (0.1%)
57	2l	0.36	0/1857	0.74	3/2491 (0.1%)
58	2m	0.31	0/4331	0.58	0/5898
58	2n	0.31	0/4331	0.62	3/5898 (0.1%)
58	2o	0.30	0/4331	0.57	0/5898
58	2p	0.42	0/4331	0.73	4/5898 (0.1%)
59	2q	0.36	0/3984	0.64	4/5442 (0.1%)
59	2r	0.30	0/3984	0.63	1/5442 (0.0%)
59	2s	0.33	0/3984	0.61	0/5442
59	2t	0.37	0/3775	0.72	4/5155 (0.1%)
60	2u	0.30	0/3387	0.58	1/4596 (0.0%)
61	2v	0.33	0/2450	0.61	2/3315 (0.1%)
61	2w	0.30	0/2450	0.59	0/3315
61	2x	0.31	0/2450	0.55	0/3315
61	2y	0.36	0/2450	0.63	2/3315 (0.1%)
62	2z	0.32	0/2514	0.56	0/3411
62	3a	0.31	0/2261	0.61	2/3075 (0.1%)
62	3b	0.31	0/2514	0.60	1/3411 (0.0%)
62	3c	0.37	0/2205	0.70	3/2997 (0.1%)
63	3A	0.26	0/1649	0.55	1/2228 (0.0%)
63	3B	0.54	0/2437	0.57	0/3297
63	3C	0.53	0/2437	0.56	0/3297
64	3E	0.31	0/983	0.52	0/1343
64	3F	0.30	0/799	0.51	0/1091
64	3G	0.31	0/983	0.52	0/1343
64	3H	0.32	0/799	0.54	0/1091
64	3I	0.31	0/983	0.52	0/1343
65	3J	0.48	1/5367 (0.0%)	0.79	14/7239 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
65	3K	0.40	0/4563	0.71	4/6153 (0.1%)
65	3L	0.42	0/804	0.80	0/1086
66	3M	0.29	0/2279	0.54	0/3083
66	3N	0.29	0/2279	0.59	1/3083 (0.0%)
66	3O	0.30	0/2279	0.56	0/3083
66	3P	0.29	0/2279	0.54	0/3083
66	3Q	0.29	0/2279	0.59	1/3083 (0.0%)
66	3R	0.30	0/2279	0.57	0/3083
66	3S	0.39	0/2279	0.66	0/3083
66	3T	0.29	0/2279	0.59	1/3083 (0.0%)
67	3U	0.29	0/1862	0.51	0/2526
67	3V	0.29	0/1862	0.51	0/2526
67	3W	0.29	0/1862	0.52	0/2526
67	3X	0.29	0/1862	0.51	0/2526
67	3Y	0.29	0/1862	0.51	0/2526
68	3Z	0.29	0/1572	0.55	0/2124
68	4A	0.28	0/1572	0.55	0/2124
68	4B	0.29	0/1572	0.56	0/2124
68	4C	0.31	0/1572	0.56	0/2124
68	4D	0.29	0/1572	0.55	0/2124
68	4E	0.30	0/1572	0.54	0/2124
68	4F	0.29	0/1572	0.55	0/2124
68	4G	0.28	0/1572	0.55	0/2124
68	4H	0.29	0/1572	0.56	0/2124
68	4I	0.45	1/1572 (0.1%)	0.73	4/2124 (0.2%)
68	4J	0.29	0/1572	0.55	0/2124
68	4K	0.39	0/1572	0.66	2/2124 (0.1%)
68	4L	0.31	0/1572	0.57	0/2124
68	4M	0.28	0/1572	0.55	0/2124
68	4N	0.29	0/1572	0.56	0/2124
69	3d	0.36	0/5518	0.68	3/7487 (0.0%)
69	3e	0.30	0/5518	0.60	0/7487
69	3f	0.31	0/5518	0.64	2/7487 (0.0%)
69	3g	0.34	1/5518 (0.0%)	0.62	0/7487
70	3h	0.33	0/2512	0.62	0/3394
70	3i	0.31	0/2512	0.60	0/3394
71	3j	0.27	0/3058	0.60	1/4138 (0.0%)
72	3k	0.28	0/2780	0.57	0/3780
73	3l	0.36	0/2404	0.67	2/3263 (0.1%)
73	3m	0.30	0/2299	0.64	0/3119
73	3o	0.31	0/2404	0.64	1/3263 (0.0%)
73	3p	0.30	0/2299	0.68	2/3119 (0.1%)
74	3q	0.29	0/1798	0.61	0/2436

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
74	3r	0.32	0/1798	0.68	0/2436
74	3s	0.31	0/1798	0.62	0/2436
74	3t	0.40	0/1798	0.77	2/2436 (0.1%)
75	3u	0.31	0/733	0.61	0/985
75	3v	0.29	0/733	0.56	0/985
75	3w	0.32	0/740	0.58	0/995
75	3x	0.32	0/733	0.56	0/985
75	3y	0.32	0/733	0.58	0/985
75	3z	0.32	0/733	0.63	0/985
75	4a	0.30	0/733	0.52	0/985
75	4b	0.36	0/733	0.64	0/985
75	4c	0.34	0/735	0.59	0/990
75	4d	0.31	0/735	0.53	0/990
75	4e	0.33	0/728	0.57	0/980
75	4f	0.34	0/728	0.52	0/980
75	4g	0.35	0/735	0.52	0/990
75	4h	0.33	0/735	0.52	0/990
75	4i	0.32	0/728	0.60	0/980
75	4j	0.33	0/728	0.56	0/980
75	4k	0.34	0/728	0.54	0/980
75	4l	0.36	0/728	0.62	0/980
75	4m	0.39	0/728	0.64	0/980
75	4n	0.53	0/728	0.74	0/980
75	5s	0.37	0/733	0.65	0/985
75	5t	0.28	0/746	0.56	0/1003
75	5u	0.34	0/705	0.67	1/949 (0.1%)
75	5v	0.40	0/725	0.72	1/974 (0.1%)
75	5w	0.28	0/754	0.54	0/1013
75	5x	0.32	0/754	0.58	0/1013
75	7k	0.31	0/746	0.67	0/1003
75	7n	0.33	0/705	0.72	1/949 (0.1%)
75	7o	0.30	0/725	0.59	0/974
75	7p	0.28	0/725	0.54	0/974
75	8k	0.30	0/746	0.66	0/1003
75	8n	0.33	0/705	0.65	1/949 (0.1%)
75	8o	0.35	0/725	0.64	1/974 (0.1%)
75	8p	0.32	0/725	0.69	1/974 (0.1%)
75	9k	0.30	0/746	0.64	0/1003
75	9n	0.33	0/705	0.69	1/949 (0.1%)
75	9o	0.32	0/725	0.62	0/974
75	9p	0.30	0/725	0.63	1/974 (0.1%)
76	4O	0.28	0/4752	0.58	1/6445 (0.0%)
76	4P	0.33	0/4809	0.67	5/6522 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
76	4Q	0.28	0/4809	0.58	2/6522 (0.0%)
76	4R	0.28	0/4752	0.58	1/6445 (0.0%)
76	4S	0.32	0/4809	0.66	3/6522 (0.0%)
76	4T	0.28	0/4809	0.58	2/6522 (0.0%)
76	4U	0.30	0/4752	0.62	1/6445 (0.0%)
77	4V	0.29	0/1903	0.58	1/2566 (0.0%)
77	4W	0.29	0/1903	0.54	0/2566
77	4X	0.29	0/1903	0.58	1/2566 (0.0%)
77	4Y	0.29	0/1903	0.54	0/2566
77	4Z	0.29	0/1903	0.58	1/2566 (0.0%)
78	4o	0.33	0/1847	0.60	0/2513
78	4p	0.31	0/1847	0.58	0/2513
79	4q	0.28	0/6628	0.58	0/9023
79	4r	0.29	0/6628	0.59	0/9023
80	4s	0.31	0/6306	0.61	2/8582 (0.0%)
80	4t	0.32	0/6306	0.63	3/8582 (0.0%)
81	4u	0.31	0/3991	0.63	1/5386 (0.0%)
81	4v	0.33	0/3991	0.66	2/5386 (0.0%)
82	4w	0.35	0/4215	0.69	3/5684 (0.1%)
83	4x	0.24	0/841	0.46	0/1151
84	4y	0.29	0/5414	0.61	0/7288
85	4z	0.30	0/4196	0.58	1/5668 (0.0%)
86	5A	0.52	1/1943 (0.1%)	0.83	3/2602 (0.1%)
86	5B	0.40	0/1943	0.72	2/2602 (0.1%)
87	5C	0.29	0/2276	0.56	1/3084 (0.0%)
87	5D	0.31	0/2243	0.60	2/3038 (0.1%)
87	5E	0.27	0/2243	0.55	0/3038
87	5F	0.29	0/2276	0.57	1/3084 (0.0%)
87	5G	0.31	0/2243	0.59	1/3038 (0.0%)
87	5H	0.27	0/2243	0.56	0/3038
87	5I	0.29	0/2276	0.56	1/3084 (0.0%)
87	5J	0.34	0/1405	0.61	1/1898 (0.1%)
88	5K	0.45	0/1314	0.71	2/1737 (0.1%)
88	5S	0.32	0/1376	0.59	0/1828
88	5T	0.56	0/3894	0.52	0/5170
88	5U	0.56	0/3894	0.52	0/5170
88	5V	0.36	0/2479	0.66	2/3301 (0.1%)
88	5W	0.55	0/4002	0.56	0/5320
88	5X	0.57	0/3268	0.56	0/4339
89	5L	0.30	0/1951	0.54	0/2639
89	5M	0.30	0/1951	0.54	0/2639
90	5N	0.31	0/1944	0.58	1/2631 (0.0%)
90	5O	0.28	0/1944	0.52	0/2631

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
90	5P	0.28	0/1944	0.52	0/2631
90	5Q	0.31	0/1944	0.58	0/2631
90	5R	0.31	0/1944	0.58	1/2631 (0.0%)
91	5Y	0.54	0/3460	0.60	1/4601 (0.0%)
91	5Z	0.59	0/3951	0.57	0/5258
91	6A	0.53	0/2262	0.56	0/3005
92	5a	0.35	0/1281	0.71	2/1726 (0.1%)
93	5b	0.36	0/1436	0.70	0/1918
94	5c	0.27	0/7291	0.56	0/9891
95	5d	0.28	0/10413	0.55	1/14150 (0.0%)
96	5e	0.42	0/1917	0.72	1/2568 (0.0%)
97	5f	0.34	0/2677	0.67	3/3587 (0.1%)
98	5g	0.28	0/3570	0.62	0/4836
99	5h	0.32	0/11494	0.62	6/15540 (0.0%)
99	5i	0.29	0/27334	0.60	2/36978 (0.0%)
100	5j	0.31	0/11128	0.61	4/15019 (0.0%)
100	5k	0.28	0/28204	0.57	9/38163 (0.0%)
101	5l	0.37	0/3481	0.67	1/4731 (0.0%)
102	5m	0.30	0/3882	0.62	1/5269 (0.0%)
103	5n	0.33	0/5346	0.67	3/7240 (0.0%)
104	5o	0.28	0/2661	0.58	0/3594
105	5p	0.25	0/947	0.58	0/1269
105	7i	0.27	0/947	0.64	0/1269
105	8i	0.29	0/947	0.68	0/1269
105	9i	0.27	0/947	0.62	0/1269
106	5q	0.26	0/795	0.59	0/1077
106	7l	0.31	0/795	0.65	0/1077
106	8l	0.30	0/795	0.63	0/1077
106	9l	0.30	0/795	0.64	0/1077
107	5r	0.28	0/766	0.65	0/1037
107	7m	0.27	0/766	0.62	0/1037
107	8m	0.28	0/766	0.62	0/1037
107	9m	0.30	0/766	0.61	0/1037
108	5y	0.26	0/842	0.54	0/1144
108	7q	0.30	0/842	0.55	0/1144
108	8q	0.29	0/842	0.58	0/1144
108	9q	0.31	0/842	0.60	0/1144
109	6B	0.28	0/796	0.57	0/1065
109	6C	0.54	0/2723	0.55	0/3628
109	6D	0.54	0/2723	0.54	0/3628
109	6E	0.31	0/709	0.61	0/943
109	6F	0.61	0/2930	0.57	0/3912
109	6G	0.53	0/2950	0.53	0/3938

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
109	6H	0.31	0/1553	0.60	0/2059
109	6I	0.32	0/1998	0.64	2/2669 (0.1%)
109	6J	0.72	0/2942	0.68	1/3927 (0.0%)
109	6K	0.73	0/2421	0.73	2/3224 (0.1%)
109	6L	0.30	0/1181	0.59	0/1590
109	6M	0.55	0/2950	0.59	0/3938
109	6N	0.55	0/2950	0.56	0/3938
109	6O	0.35	0/2167	0.65	0/2881
109	6P	0.40	0/2167	0.69	2/2881 (0.1%)
109	6Q	0.32	0/1421	0.64	0/1886
110	6R	0.28	0/1238	0.57	0/1686
110	6S	0.54	0/1872	0.63	1/2545 (0.0%)
110	6T	0.53	0/1457	0.61	2/1978 (0.1%)
110	6U	0.29	0/801	0.53	0/1091
110	6V	0.53	0/1904	0.57	0/2587
110	6W	0.53	0/1904	0.57	0/2587
110	6X	0.29	0/410	0.55	0/555
110	6Y	0.54	0/1874	0.60	0/2545
110	6Z	0.54	0/1874	0.61	0/2545
110	7A	0.41	0/911	0.65	0/1234
110	7B	0.29	0/1477	0.57	1/2011 (0.0%)
110	7C	0.54	0/1965	0.58	0/2671
110	7D	0.54	0/1466	0.59	0/1991
110	7E	0.32	0/865	0.57	1/1177 (0.1%)
110	7F	0.54	0/1869	0.59	0/2538
110	7G	0.53	0/1869	0.59	0/2538
110	7H	0.30	0/819	0.54	0/1108
110	7I	0.29	0/1942	0.52	0/2640
110	7J	0.29	0/1942	0.52	0/2640
110	7K	0.27	0/415	0.51	0/567
110	9Z	0.26	0/349	0.54	0/478
111	6a	0.28	0/33393	0.54	4/45239 (0.0%)
112	6b	0.31	0/33415	0.60	11/45256 (0.0%)
113	6c	0.29	0/32078	0.57	5/43456 (0.0%)
114	6d	0.26	0/32635	0.53	3/44198 (0.0%)
115	6e	0.27	0/33541	0.55	2/45416 (0.0%)
116	6f	0.30	0/2969	0.57	0/4015
116	6g	0.30	0/2960	0.60	0/4003
117	6h	0.30	0/3102	0.60	0/4204
118	6i	0.33	0/3290	0.66	4/4468 (0.1%)
119	6j	0.31	0/3111	0.60	1/4224 (0.0%)
120	6k	0.44	0/1395	0.74	1/1870 (0.1%)
120	6l	0.37	0/1791	0.68	2/2406 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
120	6m	0.33	0/1847	0.63	0/2482
121	6n	0.30	0/1639	0.69	1/2210 (0.0%)
122	6o	0.32	0/1993	0.62	1/2685 (0.0%)
123	6p	0.34	0/1387	0.68	0/1856
124	6q	0.29	0/2744	0.57	0/3715
125	6r	0.31	0/2956	0.63	0/3982
126	6s	0.29	0/2880	0.65	1/3891 (0.0%)
127	6t	0.29	0/1244	0.59	0/1681
128	6u	0.41	0/1223	1.32	2/1646 (0.1%)
129	7L	0.27	0/1329	0.53	0/1791
129	7M	0.27	0/1329	0.53	0/1791
130	7N	0.33	0/1370	0.60	0/1856
130	7O	0.32	0/1370	0.57	0/1856
130	7P	0.36	0/1370	0.62	1/1856 (0.1%)
131	7Q	0.29	0/1304	0.54	0/1756
131	7R	0.31	0/1304	0.57	0/1756
131	7S	0.29	0/1304	0.54	0/1756
132	7T	0.28	0/1329	0.54	0/1804
132	7U	0.53	0/2489	0.56	0/3372
132	8L	0.53	0/2003	0.56	0/2707
133	7V	0.29	0/1962	0.55	0/2639
133	7W	0.28	0/1948	0.59	1/2622 (0.0%)
133	7X	0.33	0/1884	0.64	0/2536
133	7Y	0.29	0/1962	0.55	0/2639
133	7Z	0.29	0/1948	0.60	1/2622 (0.0%)
133	8A	0.30	0/1884	0.61	0/2536
133	8B	0.29	0/1962	0.55	0/2639
133	8C	0.29	0/1948	0.59	1/2622 (0.0%)
134	7a	0.29	0/28099	0.57	4/38007 (0.0%)
134	7e	0.28	0/38074	0.57	8/51496 (0.0%)
134	8e	0.29	0/38074	0.58	8/51496 (0.0%)
134	9e	0.29	0/38074	0.57	5/51496 (0.0%)
135	7b	0.28	0/27552	0.57	6/37271 (0.0%)
135	7f	0.29	0/37575	0.58	8/50802 (0.0%)
135	8f	0.28	0/37575	0.58	9/50802 (0.0%)
135	9f	0.29	0/37575	0.59	15/50802 (0.0%)
136	7c	0.32	0/2856	0.69	1/3860 (0.0%)
136	8c	0.30	0/2856	0.71	1/3860 (0.0%)
136	9c	0.30	0/2856	0.69	2/3860 (0.1%)
137	7d	0.55	0/677	0.99	4/906 (0.4%)
137	8d	0.67	0/677	1.08	2/906 (0.2%)
137	9d	0.55	0/677	1.05	3/906 (0.3%)
138	7g	0.29	0/4346	0.62	2/5902 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
138	8g	0.30	0/4346	0.61	1/5902 (0.0%)
138	9g	0.29	0/4346	0.62	4/5902 (0.1%)
139	7h	0.28	0/4938	0.59	2/6692 (0.0%)
139	8h	0.29	0/4938	0.61	4/6692 (0.1%)
139	9h	0.28	0/4938	0.59	1/6692 (0.0%)
140	7j	0.34	0/877	0.67	1/1176 (0.1%)
140	8j	0.31	0/877	0.63	0/1176
140	9j	0.34	0/877	0.69	0/1176
141	7r	0.29	0/789	0.63	0/1068
141	8r	0.31	0/789	0.71	1/1068 (0.1%)
141	9r	0.30	0/789	0.66	2/1068 (0.2%)
142	7s	0.39	0/1334	0.73	2/1796 (0.1%)
142	8s	0.36	0/2698	0.73	4/3622 (0.1%)
142	9a	0.33	0/1519	0.76	1/2032 (0.0%)
142	9s	0.31	0/2853	0.67	1/3828 (0.0%)
143	7t	0.29	0/1457	0.61	0/1956
143	8t	0.35	0/2751	0.70	2/3689 (0.1%)
143	9b	0.38	0/1458	0.87	4/1954 (0.2%)
143	9t	0.33	0/2915	0.67	2/3910 (0.1%)
144	8D	0.39	0/2061	0.71	2/2778 (0.1%)
144	8E	0.29	0/1004	0.64	0/1344
144	8F	0.36	0/1977	0.67	0/2662
144	8G	0.31	0/2061	0.59	0/2778
144	8H	0.30	0/1004	0.64	0/1344
144	8I	0.29	0/1977	0.59	0/2662
144	8J	0.33	0/2061	0.62	0/2778
144	8K	0.29	0/1004	0.63	0/1344
145	8M	0.27	0/832	0.52	0/1109
145	8N	0.27	0/899	0.54	0/1199
145	8O	0.26	0/868	0.54	0/1157
145	8P	0.28	0/832	0.53	0/1109
145	8Q	0.27	0/899	0.53	0/1199
145	8R	0.25	0/868	0.54	0/1157
145	8S	0.28	0/832	0.53	0/1109
145	8T	0.28	0/899	0.54	0/1199
146	8U	0.26	0/328	0.68	0/437
146	8V	0.26	0/1071	0.50	0/1439
146	8W	0.26	0/328	0.64	0/437
146	8X	0.26	0/328	0.68	0/437
146	8Y	0.26	0/1071	0.49	0/1439
146	8Z	0.26	0/328	0.64	0/437
146	9A	0.27	0/328	0.68	0/437
146	9B	0.26	0/955	0.56	0/1281

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
147	9C	0.31	0/1686	0.54	0/2272
147	9D	0.31	0/1686	0.54	0/2272
147	9E	0.26	0/288	0.37	0/394
148	9F	0.40	0/230	0.54	0/310
148	9G	0.32	0/1252	0.52	0/1685
148	9H	0.53	0/1252	0.80	1/1685 (0.1%)
148	9I	0.28	0/817	0.52	0/1099
149	9J	0.32	0/1484	0.57	0/2015
149	9K	0.55	0/2344	0.64	2/3175 (0.1%)
149	9L	0.55	0/2141	0.61	0/2907
150	9M	0.26	0/1396	0.63	1/1865 (0.1%)
150	9N	0.25	0/1396	0.57	0/1865
150	9O	0.25	0/1389	0.55	0/1855
150	9P	0.27	0/1396	0.63	1/1865 (0.1%)
150	9Q	0.25	0/1396	0.57	0/1865
150	9R	0.25	0/1389	0.56	0/1855
150	9S	0.27	0/1396	0.63	1/1865 (0.1%)
151	9T	0.27	0/1205	0.59	1/1602 (0.1%)
151	9U	0.27	0/1205	0.58	1/1602 (0.1%)
151	9V	0.27	0/1104	0.59	1/1470 (0.1%)
152	9W	0.26	0/590	0.56	0/788
152	9X	0.27	0/590	0.56	0/788
152	9Y	0.27	0/590	0.56	0/788
153	AA	0.55	0/3443	0.66	2/4657 (0.0%)
153	AC	0.30	0/3443	0.60	1/4657 (0.0%)
153	AE	0.54	0/3443	0.63	0/4657
153	AG	0.58	0/3443	0.73	3/4657 (0.1%)
153	AI	0.55	0/3443	0.62	0/4657
153	AK	0.55	0/3443	0.63	0/4657
153	AM	0.55	0/3443	0.66	2/4657 (0.0%)
153	AO	0.30	0/3443	0.60	1/4657 (0.0%)
153	AQ	0.55	0/3443	0.62	0/4657
153	AS	0.58	0/3443	0.73	1/4657 (0.0%)
153	AU	0.55	0/3443	0.63	0/4657
153	AW	0.55	0/3443	0.63	0/4657
153	AY	0.56	0/3443	0.66	2/4657 (0.0%)
153	Aa	0.55	0/3443	0.64	0/4657
153	Ac	0.55	0/3443	0.64	1/4657 (0.0%)
153	Ae	0.58	0/3443	0.71	2/4657 (0.0%)
153	Ag	0.55	0/3443	0.64	0/4657
153	Ai	0.55	0/3443	0.63	0/4657
153	Ak	0.55	0/3443	0.62	0/4657
153	Am	0.55	0/3443	0.64	0/4657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	Ao	0.55	0/3443	0.65	1/4657 (0.0%)
153	BA	0.55	0/3443	0.62	0/4657
153	BC	0.31	0/3443	0.62	2/4657 (0.0%)
153	BG	0.55	0/3443	0.65	1/4657 (0.0%)
153	BI	0.55	0/3443	0.64	0/4657
153	BK	0.57	0/3443	0.69	0/4657
153	BM	0.55	0/3443	0.64	0/4657
153	BO	0.33	0/3443	0.66	3/4657 (0.1%)
153	BQ	0.56	0/3443	0.65	1/4657 (0.0%)
153	BS	0.55	0/3443	0.64	1/4657 (0.0%)
153	BU	0.33	0/3443	0.64	1/4657 (0.0%)
153	BW	0.58	0/3443	0.73	2/4657 (0.0%)
153	BY	0.56	0/3443	0.65	0/4657
153	CA	0.56	0/3443	0.65	1/4657 (0.0%)
153	CC	0.56	0/3443	0.65	1/4657 (0.0%)
153	CE	0.55	0/3443	0.65	1/4657 (0.0%)
153	CH	0.55	0/3443	0.64	0/4657
153	CK	0.33	0/3443	0.66	4/4657 (0.1%)
153	CM	0.55	0/3443	0.64	0/4657
153	CO	0.56	0/3443	0.67	0/4657
153	CQ	0.55	0/3443	0.65	0/4657
153	CS	0.31	0/3443	0.62	4/4657 (0.1%)
153	CU	0.34	0/3443	0.68	2/4657 (0.0%)
153	CW	0.33	0/3443	0.66	4/4657 (0.1%)
153	CY	0.56	0/3443	0.66	0/4657
153	DA	0.58	0/3443	0.71	1/4657 (0.0%)
153	DC	0.56	0/3443	0.69	1/4657 (0.0%)
153	DE	0.55	0/3443	0.68	2/4657 (0.0%)
153	DG	0.55	0/3443	0.67	1/4657 (0.0%)
153	DI	0.55	0/3443	0.66	0/4657
153	DK	0.56	0/3443	0.65	0/4657
153	DN	0.34	0/3443	0.66	1/4657 (0.0%)
153	DP	0.55	0/3443	0.63	0/4657
153	DR	0.55	0/3443	0.65	0/4657
153	DT	0.32	0/3443	0.67	1/4657 (0.0%)
153	DV	0.31	0/3443	0.62	3/4657 (0.1%)
153	DX	0.55	0/3443	0.65	0/4657
153	DZ	0.56	0/3443	0.66	0/4657
153	EB	0.33	0/3443	0.63	2/4657 (0.0%)
153	ED	0.34	0/3443	0.65	2/4657 (0.0%)
153	EF	0.55	0/3443	0.66	0/4657
153	EH	0.57	0/3443	0.69	2/4657 (0.0%)
153	EJ	0.56	0/3443	0.65	0/4657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	EL	0.56	0/3443	0.66	0/4657
153	EN	0.55	0/3443	0.63	0/4657
153	ER	0.33	0/3443	0.65	1/4657 (0.0%)
153	ET	0.33	0/3443	0.67	3/4657 (0.1%)
153	EV	0.55	0/3443	0.68	0/4657
153	EX	0.55	0/3443	0.66	1/4657 (0.0%)
153	EZ	0.55	0/3443	0.63	0/4657
153	FB	0.55	0/3443	0.67	0/4657
153	FD	0.55	0/3443	0.65	0/4657
153	FF	0.56	0/3443	0.67	2/4657 (0.0%)
153	FH	0.34	0/3443	0.70	2/4657 (0.0%)
153	FJ	0.55	0/3443	0.66	1/4657 (0.0%)
153	FL	0.56	0/3443	0.63	0/4657
153	FN	0.56	0/3443	0.70	1/4657 (0.0%)
153	FP	0.56	0/3443	0.65	0/4657
153	FR	0.56	0/3443	0.67	2/4657 (0.0%)
153	FT	0.55	0/3443	0.68	0/4657
153	FV	0.35	0/3443	0.66	1/4657 (0.0%)
153	FX	0.32	0/3443	0.66	5/4657 (0.1%)
153	FZ	0.32	0/3443	0.67	3/4657 (0.1%)
153	GB	0.57	0/3443	0.71	0/4657
153	GD	0.55	0/3443	0.64	0/4657
153	GF	0.55	0/3443	0.65	0/4657
153	GH	0.55	0/3443	0.66	0/4657
153	GJ	0.55	0/3443	0.66	0/4657
153	GL	0.55	0/3443	0.65	0/4657
153	GN	0.55	0/3443	0.63	0/4657
153	GP	0.55	0/3443	0.64	0/4657
153	GR	0.58	0/3443	0.73	3/4657 (0.1%)
153	GT	0.56	0/3443	0.66	0/4657
153	GV	0.55	0/3443	0.66	0/4657
153	GX	0.55	0/3443	0.66	0/4657
153	GZ	0.31	0/3443	0.64	1/4657 (0.0%)
153	HB	0.32	0/3443	0.62	0/4657
153	HD	0.32	0/3443	0.63	1/4657 (0.0%)
153	HF	0.57	0/3443	0.66	1/4657 (0.0%)
153	HH	0.56	0/3443	0.63	0/4657
153	HJ	0.56	0/3443	0.62	0/4657
153	HL	0.31	0/3443	0.64	1/4657 (0.0%)
153	HN	0.55	0/3443	0.63	0/4657
153	HP	0.55	0/3443	0.63	1/4657 (0.0%)
153	HR	0.56	0/3443	0.63	0/4657
153	HT	0.56	0/3443	0.66	1/4657 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	HV	0.56	0/3443	0.62	0/4657
153	HX	0.55	0/3443	0.64	0/4657
153	HZ	0.55	0/3443	0.63	0/4657
153	IB	0.55	0/3443	0.63	1/4657 (0.0%)
153	ID	0.34	0/3443	0.65	3/4657 (0.1%)
153	IF	0.32	0/3443	0.66	2/4657 (0.0%)
153	IH	0.32	0/3443	0.62	2/4657 (0.0%)
153	IJ	0.56	0/3443	0.69	1/4657 (0.0%)
153	IL	0.33	0/3443	0.63	2/4657 (0.0%)
153	IN	0.32	0/3443	0.65	1/4657 (0.0%)
153	IP	0.35	0/3443	0.66	4/4657 (0.1%)
153	IR	0.56	0/3443	0.69	1/4657 (0.0%)
153	IT	0.32	0/3443	0.62	2/4657 (0.0%)
153	IV	0.38	0/3443	0.68	1/4657 (0.0%)
153	IX	0.56	0/3443	0.65	2/4657 (0.0%)
153	IZ	0.55	0/3443	0.69	3/4657 (0.1%)
153	JB	0.56	0/3443	0.69	1/4657 (0.0%)
153	JD	0.57	0/3443	0.69	2/4657 (0.0%)
153	JF	0.55	0/3443	0.63	0/4657
153	JG	0.32	0/3443	0.63	2/4657 (0.0%)
153	JI	0.34	0/3443	0.63	1/4657 (0.0%)
153	JK	0.33	0/3443	0.60	0/4657
153	JM	0.55	0/3443	0.67	1/4657 (0.0%)
153	JO	0.56	0/3443	0.62	0/4657
153	JQ	0.58	0/3443	0.72	2/4657 (0.0%)
153	JS	0.32	0/3443	0.64	2/4657 (0.0%)
153	JU	0.56	0/3443	0.64	0/4657
153	JW	0.32	0/3443	0.60	0/4657
153	JY	0.33	0/3443	0.62	0/4657
153	KA	0.56	0/3443	0.62	0/4657
153	KC	0.55	0/3443	0.65	0/4657
153	KE	0.55	0/3443	0.64	1/4657 (0.0%)
153	KG	0.57	0/3443	0.66	1/4657 (0.0%)
153	KI	0.55	0/3443	0.62	0/4657
153	KK	0.55	0/3443	0.61	0/4657
153	KM	0.55	0/3443	0.64	0/4657
153	KO	0.55	0/3443	0.66	2/4657 (0.0%)
153	KQ	0.56	0/3443	0.67	2/4657 (0.0%)
153	KS	0.55	0/3443	0.63	0/4657
153	KU	0.55	0/3443	0.63	0/4657
153	KW	0.55	0/3443	0.61	0/4657
153	KY	0.55	0/3443	0.64	1/4657 (0.0%)
153	LA	0.54	0/3443	0.62	0/4657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	LC	0.56	0/3443	0.68	1/4657 (0.0%)
153	LE	0.56	0/3443	0.66	1/4657 (0.0%)
153	LG	0.55	0/3443	0.64	0/4657
153	LI	0.55	0/3443	0.61	0/4657
153	LK	0.55	0/3443	0.64	0/4657
153	LM	0.54	0/3443	0.62	0/4657
153	LO	0.54	0/3443	0.59	0/4657
153	LQ	0.55	0/3443	0.61	0/4657
153	LS	0.55	0/3443	0.59	0/4657
153	LU	0.57	0/3443	0.66	1/4657 (0.0%)
153	LW	0.55	0/3443	0.64	0/4657
153	LY	0.54	0/3443	0.62	0/4657
153	MA	0.54	0/3443	0.59	0/4657
153	MC	0.55	0/3443	0.61	0/4657
153	ME	0.54	0/3443	0.58	0/4657
153	MG	0.56	0/3443	0.66	0/4657
153	MI	0.54	0/3443	0.62	0/4657
153	MK	0.55	0/3443	0.62	1/4657 (0.0%)
153	MM	0.54	0/3443	0.59	0/4657
153	MO	0.55	0/3443	0.61	0/4657
153	MQ	0.31	0/3443	0.57	0/4657
153	MU	0.55	0/3443	0.63	0/4657
153	MW	0.55	0/3443	0.64	0/4657
153	MY	0.55	0/3443	0.62	0/4657
153	NA	0.56	0/3443	0.62	0/4657
153	NC	0.55	0/3443	0.61	0/4657
153	NE	0.54	0/3443	0.60	0/4657
153	NG	0.55	0/3443	0.63	0/4657
153	NI	0.55	0/3443	0.64	0/4657
153	NK	0.54	0/3443	0.62	0/4657
153	NM	0.56	0/3443	0.63	0/4657
153	NO	0.55	0/3443	0.61	0/4657
153	NQ	0.54	0/3443	0.60	0/4657
153	NS	0.55	0/3443	0.63	0/4657
153	NU	0.55	0/3443	0.64	0/4657
153	NY	0.55	0/3443	0.63	0/4657
153	OA	0.55	0/3443	0.64	0/4657
153	OC	0.55	0/3443	0.65	0/4657
153	OE	0.56	0/3443	0.67	0/4657
153	OG	0.55	0/3443	0.61	0/4657
153	OI	0.55	0/3443	0.64	0/4657
153	OK	0.54	0/3443	0.63	0/4657
153	OM	0.55	0/3443	0.64	0/4657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	OO	0.55	0/3443	0.64	0/4657
153	OQ	0.55	0/3443	0.62	0/4657
153	OS	0.55	0/3443	0.62	0/4657
153	OU	0.55	0/3443	0.65	0/4657
153	OW	0.54	0/3443	0.63	0/4657
153	OY	0.55	0/3443	0.64	0/4657
153	PA	0.55	0/3443	0.65	0/4657
153	PD	0.55	0/3443	0.65	0/4657
153	PF	0.55	0/3443	0.67	0/4657
153	PH	0.55	0/3443	0.70	5/4657 (0.1%)
153	PJ	0.55	0/3443	0.62	0/4657
153	PL	0.55	0/3443	0.66	1/4657 (0.0%)
153	PN	0.55	0/3443	0.68	4/4657 (0.1%)
153	PP	0.54	0/3443	0.65	0/4657
153	PR	0.55	0/3443	0.67	0/4657
153	PT	0.55	0/3443	0.70	5/4657 (0.1%)
153	PV	0.55	0/3443	0.63	0/4657
153	PX	0.55	0/3443	0.66	2/4657 (0.0%)
153	PZ	0.55	0/3443	0.68	4/4657 (0.1%)
153	QB	0.55	0/3443	0.65	0/4657
153	QD	0.55	0/3443	0.67	0/4657
153	QF	0.55	0/3443	0.66	2/4657 (0.0%)
153	QH	0.55	0/3443	0.65	0/4657
153	QJ	0.55	0/3443	0.67	0/4657
153	QL	0.58	0/3443	0.70	1/4657 (0.0%)
153	QN	0.56	0/3443	0.65	0/4657
153	QP	0.55	0/3443	0.63	1/4657 (0.0%)
153	QR	0.55	0/3443	0.66	2/4657 (0.0%)
153	QT	0.55	0/3443	0.65	0/4657
153	QV	0.55	0/3443	0.66	0/4657
153	QX	0.55	0/3443	0.66	0/4657
153	QZ	0.56	0/3443	0.67	0/4657
153	RB	0.55	0/3443	0.64	1/4657 (0.0%)
153	RD	0.55	0/3443	0.66	2/4657 (0.0%)
153	RF	0.55	0/3443	0.65	0/4657
153	RH	0.55	0/3443	0.66	0/4657
153	RJ	0.55	0/3443	0.66	0/4657
153	RL	0.55	0/3443	0.66	0/4657
153	RN	0.55	0/3443	0.64	0/4657
153	RP	0.55	0/3443	0.67	1/4657 (0.0%)
153	RR	0.55	0/3443	0.66	2/4657 (0.0%)
153	RT	0.55	0/3443	0.65	0/4657
153	RV	0.55	0/3443	0.67	0/4657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	RX	0.55	0/3443	0.66	0/4657
153	RZ	0.55	0/3443	0.63	0/4657
153	SB	0.55	0/3443	0.70	3/4657 (0.1%)
153	SD	0.55	0/3443	0.67	2/4657 (0.0%)
153	SF	0.55	0/3443	0.65	0/4657
153	SH	0.55	0/3443	0.66	0/4657
153	SJ	0.55	0/3443	0.66	0/4657
153	SL	0.55	0/3443	0.64	0/4657
153	SN	0.56	0/3443	0.67	0/4657
153	SP	0.55	0/3443	0.67	1/4657 (0.0%)
153	SR	0.55	0/3443	0.65	0/4657
153	ST	0.55	0/3443	0.71	2/4657 (0.0%)
153	SV	0.55	0/3443	0.63	0/4657
153	SX	0.55	0/3443	0.63	0/4657
153	SZ	0.55	0/3443	0.67	0/4657
153	TB	0.55	0/3443	0.64	0/4657
153	TD	0.56	0/3443	0.65	0/4657
153	TF	0.55	0/3443	0.67	0/4657
153	TH	0.55	0/3443	0.67	1/4657 (0.0%)
153	TJ	0.55	0/3443	0.63	0/4657
153	TL	0.56	0/3443	0.67	0/4657
153	TN	0.55	0/3443	0.64	0/4657
153	TP	0.56	0/3443	0.73	2/4657 (0.0%)
153	TS	0.55	0/3443	0.64	1/4657 (0.0%)
153	TU	0.55	0/3443	0.65	0/4657
153	TW	0.56	0/3443	0.69	2/4657 (0.0%)
153	TY	0.56	0/3443	0.73	2/4657 (0.0%)
153	UA	0.55	0/3443	0.67	0/4657
153	UC	0.55	0/3443	0.62	0/4657
153	UE	0.54	0/3443	0.64	1/4657 (0.0%)
153	UG	0.55	0/3443	0.65	0/4657
153	UI	0.57	0/3443	0.68	3/4657 (0.1%)
153	UK	0.56	0/3443	0.69	0/4657
153	UM	0.55	0/3443	0.68	0/4657
153	UO	0.55	0/3443	0.62	0/4657
153	UQ	0.55	0/3443	0.64	1/4657 (0.0%)
153	US	0.55	0/3443	0.65	0/4657
153	UU	0.56	0/3443	0.68	3/4657 (0.1%)
153	UX	0.56	0/3443	0.68	0/4657
153	UZ	0.55	0/3443	0.65	0/4657
153	VB	0.56	0/3443	0.69	0/4657
153	VD	0.57	0/3443	0.77	3/4657 (0.1%)
153	VF	0.55	0/3443	0.65	0/4657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	VH	0.54	0/3443	0.65	0/4657
153	VJ	0.55	0/3443	0.68	0/4657
153	VL	0.55	0/3443	0.64	0/4657
153	VN	0.55	0/3443	0.68	0/4657
153	VP	0.56	0/3443	0.77	5/4657 (0.1%)
153	VR	0.55	0/3443	0.66	0/4657
153	VT	0.55	0/3443	0.65	0/4657
153	VV	0.55	0/3443	0.68	0/4657
153	VX	0.55	0/3443	0.65	0/4657
153	VZ	0.55	0/3443	0.68	0/4657
153	WB	0.55	0/3443	0.66	0/4657
153	WD	0.31	0/3443	0.64	0/4657
153	WF	0.32	0/3443	0.62	0/4657
153	WH	0.57	0/3443	0.77	4/4657 (0.1%)
153	WJ	0.55	0/3443	0.66	1/4657 (0.0%)
153	WL	0.31	0/3443	0.65	0/4657
153	WN	0.54	0/3443	0.66	0/4657
153	WP	0.55	0/3443	0.65	0/4657
153	WR	0.55	0/3443	0.63	0/4657
153	WT	0.55	0/3443	0.74	2/4657 (0.0%)
153	WV	0.56	0/3443	0.71	2/4657 (0.0%)
153	WX	0.31	0/3443	0.65	0/4657
153	WZ	0.55	0/3443	0.66	0/4657
153	XB	0.57	0/3443	0.72	2/4657 (0.0%)
153	XD	0.55	0/3443	0.63	0/4657
153	XF	0.32	0/3443	0.64	1/4657 (0.0%)
153	XH	0.56	0/3443	0.67	0/4657
153	XJ	0.56	0/3443	0.72	2/4657 (0.0%)
153	XL	0.55	0/3443	0.64	0/4657
153	XN	0.55	0/3443	0.65	0/4657
153	XP	0.55	0/3443	0.64	0/4657
153	XR	0.55	0/3443	0.65	0/4657
153	XT	0.55	0/3443	0.65	0/4657
153	XV	0.55	0/3443	0.67	0/4657
153	XX	0.55	0/3443	0.64	0/4657
153	XZ	0.55	0/3443	0.65	0/4657
153	YB	0.55	0/3443	0.64	0/4657
153	YD	0.55	0/3443	0.65	0/4657
153	YF	0.56	0/3443	0.65	0/4657
153	YH	0.55	0/3443	0.67	0/4657
153	YK	0.55	0/3443	0.61	0/4657
153	YM	0.57	0/3443	0.68	2/4657 (0.0%)
153	YO	0.55	0/3443	0.66	0/4657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
153	YQ	0.54	0/3443	0.63	0/4657
153	YS	0.55	0/3443	0.63	0/4657
153	YU	0.54	0/3443	0.63	0/4657
153	YW	0.55	0/3443	0.65	0/4657
153	YY	0.55	0/3443	0.63	0/4657
153	ZA	0.56	0/3443	0.71	2/4657 (0.0%)
153	ZC	0.54	0/3443	0.63	0/4657
153	ZE	0.55	0/3443	0.63	0/4657
153	ZG	0.55	0/3443	0.63	0/4657
153	ZI	0.55	0/3443	0.61	0/4657
153	ZK	0.55	0/3443	0.64	0/4657
153	ZM	0.55	0/3443	0.62	0/4657
153	ZO	0.55	0/3443	0.64	0/4657
153	ZQ	0.55	0/3443	0.65	1/4657 (0.0%)
153	ZS	0.56	0/3443	0.67	1/4657 (0.0%)
153	ZU	0.55	0/3443	0.63	0/4657
153	ZW	0.55	0/3443	0.63	0/4657
153	ZY	0.55	0/3443	0.62	0/4657
154	AB	0.34	0/3494	0.61	0/4744
154	AD	0.32	0/3494	0.61	0/4744
154	AF	0.55	0/3494	0.63	0/4744
154	AH	0.57	0/3494	0.66	0/4744
154	AJ	0.56	0/3494	0.63	0/4744
154	AL	0.56	0/3494	0.64	0/4744
154	AN	0.56	0/3494	0.62	0/4744
154	AP	0.55	0/3494	0.63	0/4744
154	AR	0.56	0/3494	0.62	0/4744
154	AT	0.57	0/3494	0.67	0/4744
154	AV	0.56	0/3494	0.63	0/4744
154	AX	0.56	0/3494	0.64	0/4744
154	AZ	0.56	0/3494	0.63	0/4744
154	Ab	0.55	0/3494	0.62	0/4744
154	Ad	0.32	0/3494	0.62	1/4744 (0.0%)
154	Af	0.55	0/3494	0.66	0/4744
154	Ah	0.55	0/3494	0.63	0/4744
154	Aj	0.56	0/3494	0.63	0/4744
154	Al	0.56	0/3494	0.67	1/4744 (0.0%)
154	An	0.55	0/3494	0.63	0/4744
154	Ap	0.55	0/3494	0.63	0/4744
154	BB	0.56	0/3494	0.63	0/4744
154	BD	0.56	0/3494	0.63	0/4744
154	BF	0.34	0/3494	0.66	1/4744 (0.0%)
154	BH	0.33	0/3494	0.66	2/4744 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	BJ	0.56	0/3494	0.63	0/4744
154	BL	0.57	0/3494	0.68	0/4744
154	BN	0.34	0/3494	0.65	0/4744
154	BP	0.56	0/3494	0.64	0/4744
154	BR	0.34	0/3494	0.66	1/4744 (0.0%)
154	BT	0.56	0/3494	0.65	0/4744
154	BV	0.55	0/3494	0.63	0/4744
154	BX	0.57	0/3494	0.69	0/4744
154	BZ	0.56	0/3494	0.66	0/4744
154	CB	0.57	0/3494	0.65	0/4744
154	CD	0.56	0/3494	0.65	0/4744
154	CF	0.56	0/3494	0.65	0/4744
154	CI	0.56	0/3494	0.63	0/4744
154	CJ	0.56	0/3494	0.64	0/4744
154	CL	0.34	0/3494	0.62	0/4744
154	CN	0.56	0/3494	0.67	0/4744
154	CP	0.56	0/3494	0.64	0/4744
154	CR	0.55	0/3494	0.62	0/4744
154	CT	0.33	0/3494	0.66	3/4744 (0.1%)
154	CV	0.33	0/3494	0.62	0/4744
154	CX	0.34	0/3494	0.62	0/4744
154	CZ	0.56	0/3494	0.67	0/4744
154	DB	0.57	0/3494	0.67	0/4744
154	DD	0.55	0/3494	0.63	0/4744
154	DF	0.56	0/3494	0.66	0/4744
154	DH	0.56	0/3494	0.64	0/4744
154	DJ	0.56	0/3494	0.64	0/4744
154	DL	0.56	0/3494	0.67	0/4744
154	DM	0.56	0/3494	0.64	0/4744
154	DO	0.35	0/3494	0.63	1/4744 (0.0%)
154	DQ	0.56	0/3494	0.65	0/4744
154	DS	0.32	0/3494	0.63	0/4744
154	DU	0.32	0/3494	0.63	1/4744 (0.0%)
154	DW	0.33	0/3494	0.60	0/4744
154	DY	0.56	0/3494	0.64	0/4744
154	EA	0.56	0/3494	0.65	0/4744
154	EC	0.37	0/3494	0.64	1/4744 (0.0%)
154	EE	0.56	0/3494	0.66	0/4744
154	EG	0.55	0/3494	0.65	0/4744
154	EI	0.56	0/3494	0.62	0/4744
154	EK	0.55	0/3494	0.64	0/4744
154	EM	0.56	0/3494	0.65	0/4744
154	EO	0.56	0/3494	0.65	0/4744

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	EQ	0.56	0/3494	0.65	0/4744
154	ES	0.32	0/3494	0.63	1/4744 (0.0%)
154	EU	0.55	0/3494	0.65	0/4744
154	EW	0.56	0/3494	0.70	0/4744
154	EY	0.55	0/3494	0.64	0/4744
154	FA	0.55	0/3494	0.63	0/4744
154	FC	0.56	0/3494	0.67	0/4744
154	FE	0.55	0/3494	0.65	1/4744 (0.0%)
154	FG	0.37	0/3494	0.66	1/4744 (0.0%)
154	FI	0.37	0/3494	0.71	3/4744 (0.1%)
154	FK	0.55	0/3494	0.64	0/4744
154	FM	0.57	0/3494	0.67	0/4744
154	FO	0.56	0/3494	0.65	0/4744
154	FQ	0.56	0/3494	0.65	1/4744 (0.0%)
154	FS	0.55	0/3494	0.65	0/4744
154	FW	0.31	0/3494	0.64	0/4744
154	FY	0.33	0/3494	0.63	1/4744 (0.0%)
154	GA	0.36	0/3494	0.66	1/4744 (0.0%)
154	GC	0.56	0/3494	0.64	0/4744
154	GE	0.55	0/3494	0.63	0/4744
154	GG	0.55	0/3494	0.64	0/4744
154	GI	0.55	0/3494	0.64	0/4744
154	GK	0.55	0/3494	0.65	0/4744
154	GM	0.55	0/3494	0.63	0/4744
154	GO	0.56	0/3494	0.64	1/4744 (0.0%)
154	GQ	0.55	0/3494	0.64	0/4744
154	GS	0.57	0/3494	0.66	0/4744
154	GU	0.55	0/3494	0.64	0/4744
154	GW	0.56	0/3494	0.65	0/4744
154	HA	0.34	0/3494	0.65	3/4744 (0.1%)
154	HC	0.35	0/3494	0.62	1/4744 (0.0%)
154	HE	0.38	0/3494	0.68	3/4744 (0.1%)
154	HG	0.56	0/3494	0.63	0/4744
154	HI	0.55	0/3494	0.63	0/4744
154	HK	0.55	0/3494	0.62	0/4744
154	HM	0.56	0/3494	0.65	0/4744
154	HO	0.56	0/3494	0.62	0/4744
154	HQ	0.55	0/3494	0.64	2/4744 (0.0%)
154	HS	0.56	0/3494	0.64	1/4744 (0.0%)
154	HU	0.55	0/3494	0.63	0/4744
154	HW	0.55	0/3494	0.62	0/4744
154	HY	0.56	0/3494	0.65	0/4744
154	IA	0.58	1/3494 (0.0%)	0.65	1/4744 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	IE	0.32	0/3494	0.61	1/4744 (0.0%)
154	IG	0.33	0/3494	0.64	2/4744 (0.0%)
154	II	0.37	0/3494	0.66	2/4744 (0.0%)
154	IK	0.33	0/3494	0.62	0/4744
154	IM	0.56	0/3494	0.64	0/4744
154	IO	0.38	0/3494	0.71	8/4744 (0.2%)
154	IQ	0.35	0/3494	0.65	2/4744 (0.0%)
154	IS	0.55	0/3494	0.66	0/4744
154	IU	0.33	0/3494	0.60	1/4744 (0.0%)
154	IW	0.56	0/3494	0.66	0/4744
154	IY	0.57	0/3494	0.65	0/4744
154	JA	0.58	0/3494	0.69	3/4744 (0.1%)
154	JC	0.56	0/3494	0.63	0/4744
154	JE	0.56	0/3494	0.64	0/4744
154	JH	0.33	0/3494	0.60	1/4744 (0.0%)
154	JJ	0.32	0/3494	0.60	0/4744
154	JL	0.34	0/3494	0.61	0/4744
154	JN	0.56	0/3494	0.62	0/4744
154	JP	0.34	0/3494	0.60	1/4744 (0.0%)
154	JR	0.33	0/3494	0.61	1/4744 (0.0%)
154	JT	0.57	0/3494	0.65	1/4744 (0.0%)
154	JV	0.33	0/3494	0.62	0/4744
154	JX	0.31	0/3494	0.58	0/4744
154	JZ	0.55	0/3494	0.62	0/4744
154	KB	0.56	0/3494	0.61	0/4744
154	KD	0.60	2/3494 (0.1%)	0.66	3/4744 (0.1%)
154	KF	0.56	0/3494	0.62	0/4744
154	KH	0.56	0/3494	0.62	0/4744
154	KJ	0.55	0/3494	0.61	0/4744
154	KL	0.55	0/3494	0.63	0/4744
154	KN	0.55	0/3494	0.64	0/4744
154	KP	0.55	0/3494	0.63	0/4744
154	KR	0.56	0/3494	0.67	0/4744
154	KT	0.56	0/3494	0.64	0/4744
154	KV	0.55	0/3494	0.62	0/4744
154	KX	0.56	0/3494	0.63	0/4744
154	KZ	0.32	0/3494	0.63	2/4744 (0.0%)
154	LB	0.57	0/3494	0.68	2/4744 (0.0%)
154	LD	0.56	0/3494	0.66	1/4744 (0.0%)
154	LF	0.57	1/3494 (0.0%)	0.64	0/4744
154	LH	0.55	0/3494	0.63	0/4744
154	LJ	0.55	0/3494	0.63	0/4744
154	LL	0.55	0/3494	0.64	0/4744

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	LN	0.55	0/3494	0.63	0/4744
154	LP	0.55	0/3494	0.61	0/4744
154	LR	0.57	0/3494	0.68	3/4744 (0.1%)
154	LT	0.55	0/3494	0.60	0/4744
154	LV	0.57	0/3494	0.72	2/4744 (0.0%)
154	LX	0.55	0/3494	0.61	0/4744
154	LZ	0.55	0/3494	0.62	0/4744
154	MB	0.55	0/3494	0.61	0/4744
154	MD	0.56	0/3494	0.64	0/4744
154	MF	0.55	0/3494	0.60	0/4744
154	MH	0.56	0/3494	0.64	0/4744
154	MJ	0.55	0/3494	0.65	1/4744 (0.0%)
154	ML	0.56	0/3494	0.63	0/4744
154	MN	0.55	0/3494	0.61	0/4744
154	MP	0.57	0/3494	0.68	3/4744 (0.1%)
154	MR	0.55	0/3494	0.60	0/4744
154	MT	0.56	0/3494	0.63	0/4744
154	MV	0.56	0/3494	0.62	0/4744
154	MX	0.55	0/3494	0.62	0/4744
154	MZ	0.55	0/3494	0.63	0/4744
154	NB	0.55	0/3494	0.61	0/4744
154	ND	0.55	0/3494	0.61	0/4744
154	NF	0.55	0/3494	0.63	0/4744
154	NH	0.56	0/3494	0.62	0/4744
154	NJ	0.55	0/3494	0.61	0/4744
154	NL	0.57	0/3494	0.66	2/4744 (0.0%)
154	NN	0.55	0/3494	0.61	0/4744
154	NP	0.55	0/3494	0.62	0/4744
154	NR	0.55	0/3494	0.63	0/4744
154	NT	0.57	0/3494	0.66	0/4744
154	NV	0.55	0/3494	0.62	0/4744
154	NX	0.55	0/3494	0.62	0/4744
154	NZ	0.56	0/3494	0.62	0/4744
154	OB	0.55	0/3494	0.62	0/4744
154	OD	0.58	0/3494	0.68	0/4744
154	OF	0.55	0/3494	0.61	0/4744
154	OH	0.55	0/3494	0.63	0/4744
154	OJ	0.55	0/3494	0.62	0/4744
154	OL	0.56	0/3494	0.61	0/4744
154	ON	0.56	0/3494	0.64	2/4744 (0.0%)
154	OP	0.55	0/3494	0.64	0/4744
154	OR	0.55	0/3494	0.62	0/4744
154	OT	0.56	0/3494	0.63	0/4744

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	OV	0.55	0/3494	0.63	0/4744
154	OX	0.56	0/3494	0.62	0/4744
154	OZ	0.55	0/3494	0.62	0/4744
154	PC	0.33	0/3494	0.65	0/4744
154	PE	0.56	0/3494	0.67	0/4744
154	PG	0.55	0/3494	0.64	0/4744
154	PI	0.57	0/3494	0.72	4/4744 (0.1%)
154	PK	0.56	0/3494	0.63	0/4744
154	PM	0.56	0/3494	0.65	0/4744
154	PO	0.55	0/3494	0.65	0/4744
154	PQ	0.56	0/3494	0.66	0/4744
154	PS	0.56	0/3494	0.68	1/4744 (0.0%)
154	PU	0.56	0/3494	0.64	0/4744
154	PW	0.55	0/3494	0.64	0/4744
154	PY	0.56	0/3494	0.65	0/4744
154	QA	0.56	0/3494	0.65	0/4744
154	QC	0.56	0/3494	0.67	0/4744
154	QE	0.55	0/3494	0.64	0/4744
154	QG	0.56	0/3494	0.65	0/4744
154	QI	0.35	0/3494	0.64	0/4744
154	QK	0.56	0/3494	0.68	0/4744
154	QM	0.56	0/3494	0.68	0/4744
154	QO	0.56	0/3494	0.63	0/4744
154	QQ	0.55	0/3494	0.67	0/4744
154	QS	0.56	0/3494	0.65	0/4744
154	QU	0.56	0/3494	0.64	0/4744
154	QW	0.56	0/3494	0.68	0/4744
154	QY	0.56	0/3494	0.68	1/4744 (0.0%)
154	RA	0.56	0/3494	0.64	0/4744
154	RC	0.56	0/3494	0.67	0/4744
154	RE	0.56	0/3494	0.66	0/4744
154	RG	0.56	0/3494	0.65	0/4744
154	RI	0.56	0/3494	0.68	0/4744
154	RK	0.56	0/3494	0.66	0/4744
154	RM	0.56	0/3494	0.64	0/4744
154	RO	0.56	0/3494	0.67	0/4744
154	RQ	0.56	0/3494	0.64	0/4744
154	RS	0.56	0/3494	0.67	1/4744 (0.0%)
154	RU	0.56	0/3494	0.65	0/4744
154	RW	0.56	0/3494	0.66	0/4744
154	RY	0.56	0/3494	0.63	0/4744
154	SA	0.58	0/3494	0.71	0/4744
154	SC	0.56	0/3494	0.66	0/4744

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	SE	0.56	0/3494	0.67	2/4744 (0.0%)
154	SG	0.56	0/3494	0.64	0/4744
154	SI	0.56	0/3494	0.66	0/4744
154	SK	0.56	0/3494	0.64	0/4744
154	SM	0.56	0/3494	0.67	0/4744
154	SO	0.57	0/3494	0.67	0/4744
154	SQ	0.56	0/3494	0.66	0/4744
154	SS	0.58	0/3494	0.75	5/4744 (0.1%)
154	SU	0.56	0/3494	0.70	2/4744 (0.0%)
154	SW	0.55	1/3494 (0.0%)	0.65	0/4744
154	SY	0.56	0/3494	0.64	0/4744
154	TA	0.56	0/3494	0.65	0/4744
154	TC	0.56	0/3494	0.66	1/4744 (0.0%)
154	TE	0.56	0/3494	0.65	0/4744
154	TG	0.57	0/3494	0.70	1/4744 (0.0%)
154	TI	0.55	0/3494	0.66	1/4744 (0.0%)
154	TK	0.56	0/3494	0.64	0/4744
154	TM	0.56	0/3494	0.65	0/4744
154	TO	0.56	0/3494	0.66	0/4744
154	TQ	0.56	0/3494	0.65	0/4744
154	TR	0.56	0/3494	0.66	0/4744
154	TT	0.56	0/3494	0.65	0/4744
154	TV	0.55	0/3494	0.65	0/4744
154	TX	0.58	0/3494	0.76	3/4744 (0.1%)
154	TZ	0.56	0/3494	0.66	0/4744
154	UB	0.56	0/3494	0.65	0/4744
154	UD	0.55	0/3494	0.66	0/4744
154	UF	0.56	0/3494	0.65	0/4744
154	UH	0.55	0/3494	0.64	0/4744
154	UJ	0.57	0/3494	0.71	2/4744 (0.0%)
154	UL	0.56	0/3494	0.68	0/4744
154	UN	0.56	0/3494	0.65	0/4744
154	UP	0.55	0/3494	0.65	0/4744
154	UR	0.56	0/3494	0.66	0/4744
154	UT	0.55	0/3494	0.65	0/4744
154	UW	0.55	0/3494	0.66	0/4744
154	UY	0.55	0/3494	0.67	0/4744
154	VA	0.55	0/3494	0.64	0/4744
154	VC	0.59	0/3494	0.80	5/4744 (0.1%)
154	VE	0.56	0/3494	0.64	0/4744
154	VG	0.56	0/3494	0.64	0/4744
154	VI	0.55	0/3494	0.66	0/4744
154	VK	0.55	0/3494	0.67	0/4744

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	VM	0.55	0/3494	0.63	0/4744
154	VO	0.57	0/3494	0.71	2/4744 (0.0%)
154	VQ	0.55	0/3494	0.65	0/4744
154	VS	0.56	0/3494	0.65	0/4744
154	VU	0.55	0/3494	0.66	0/4744
154	VW	0.55	0/3494	0.67	0/4744
154	VY	0.55	0/3494	0.63	0/4744
154	WA	0.35	0/3494	0.66	1/4744 (0.0%)
154	WC	0.56	0/3494	0.65	0/4744
154	WE	0.34	0/3494	0.63	0/4744
154	WG	0.43	0/3494	0.73	6/4744 (0.1%)
154	WI	0.56	0/3494	0.64	0/4744
154	WK	0.56	0/3494	0.65	0/4744
154	WM	0.56	0/3494	0.67	0/4744
154	WO	0.56	0/3494	0.65	0/4744
154	WQ	0.56	0/3494	0.64	0/4744
154	WS	0.57	0/3494	0.68	0/4744
154	WU	0.55	0/3494	0.64	0/4744
154	WW	0.56	0/3494	0.65	0/4744
154	WY	0.56	0/3494	0.66	0/4744
154	XA	0.56	0/3494	0.65	0/4744
154	XC	0.56	0/3494	0.64	0/4744
154	XE	0.33	0/3494	0.66	1/4744 (0.0%)
154	XG	0.56	0/3494	0.66	0/4744
154	XI	0.56	0/3494	0.68	1/4744 (0.0%)
154	XK	0.56	0/3494	0.70	1/4744 (0.0%)
154	XM	0.57	0/3494	0.66	0/4744
154	XO	0.34	0/3494	0.67	2/4744 (0.0%)
154	XQ	0.56	0/3494	0.67	1/4744 (0.0%)
154	XS	0.34	0/3494	0.65	0/4744
154	XU	0.56	0/3494	0.67	1/4744 (0.0%)
154	XW	0.56	0/3494	0.66	0/4744
154	XY	0.56	0/3494	0.66	0/4744
154	YA	0.56	0/3494	0.65	0/4744
154	YC	0.56	0/3494	0.65	0/4744
154	YE	0.56	0/3494	0.65	0/4744
154	YG	0.56	0/3494	0.68	1/4744 (0.0%)
154	YJ	0.56	0/3494	0.64	0/4744
154	YL	0.55	0/3494	0.63	0/4744
154	YN	0.56	0/3494	0.64	0/4744
154	YP	0.58	0/3494	0.74	3/4744 (0.1%)
154	YR	0.55	0/3494	0.62	0/4744
154	YT	0.56	0/3494	0.66	0/4744

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
154	YV	0.56	0/3494	0.66	1/4744 (0.0%)
154	YX	0.55	0/3494	0.63	0/4744
154	YZ	0.56	0/3494	0.63	0/4744
154	ZB	0.57	0/3494	0.70	1/4744 (0.0%)
154	ZD	0.55	0/3494	0.63	0/4744
154	ZF	0.56	0/3494	0.63	0/4744
154	ZH	0.56	0/3494	0.64	0/4744
154	ZJ	0.55	0/3494	0.63	0/4744
154	ZL	0.55	0/3494	0.64	0/4744
154	ZN	0.56	0/3494	0.65	1/4744 (0.0%)
154	ZP	0.55	0/3494	0.63	0/4744
154	ZR	0.55	0/3494	0.63	0/4744
154	ZT	0.55	0/3494	0.66	0/4744
154	ZV	0.55	0/3494	0.62	0/4744
154	ZX	0.56	0/3494	0.63	0/4744
154	ZZ	0.55	0/3494	0.65	1/4744 (0.0%)
All	All	0.46	11/3953396 (0.0%)	0.63	783/5350391 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0C	0	1
5	0Q	0	8
5	0T	0	1
7	0Z	0	1
8	0c	0	3
11	0r	0	1
11	0s	0	1
14	0w	0	1
15	0x	0	1
30	1c	0	1
31	1d	0	1
40	1m	0	1
42	1o	0	1
44	1r	0	1
45	1t	0	5
47	2D	0	1
50	2M	0	1
50	2N	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
50	2O	0	1
55	2a	0	1
55	2c	0	1
56	2e	0	4
57	2i	0	1
57	2k	0	1
59	2q	0	1
59	2r	0	1
59	2s	0	1
61	2y	0	1
64	3E	0	1
64	3G	0	1
64	3I	0	1
65	3J	0	2
65	3K	0	2
69	3d	0	1
69	3e	0	1
69	3f	0	1
69	3g	0	1
70	3h	0	1
73	3l	0	1
73	3m	0	1
73	3o	0	3
73	3p	0	3
74	3q	0	1
74	3r	0	1
74	3s	0	1
74	3t	0	1
75	4m	0	1
75	5t	0	1
75	5v	0	4
75	7k	0	1
75	7n	0	1
75	7o	0	1
75	8k	0	1
75	8o	0	1
75	9k	0	1
75	9n	0	1
75	9o	0	1
76	4P	0	1
79	4q	0	1
79	4r	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
84	4y	0	2
86	5A	0	2
86	5B	0	3
88	5W	0	2
88	5X	0	4
91	5Y	0	1
91	5Z	0	1
92	5a	0	1
95	5d	0	1
96	5e	0	1
99	5i	0	8
100	5k	0	4
102	5m	0	2
103	5n	0	1
105	5p	0	1
106	5q	0	1
106	9l	0	1
107	9m	0	1
108	5y	0	1
109	6C	0	1
109	6F	0	3
109	6G	0	3
109	6J	0	2
109	6M	0	1
109	6N	0	2
109	6O	0	1
109	6P	0	1
110	6Y	0	1
110	7E	0	1
111	6a	0	7
112	6b	0	11
113	6c	0	3
114	6d	0	3
115	6e	0	2
125	6r	0	1
128	6u	0	1
134	7a	0	2
134	7e	0	1
134	8e	0	3
134	9e	0	2
135	7b	0	3
135	7f	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
135	8f	0	1
135	9f	0	2
136	7c	0	1
136	8c	0	1
136	9c	0	1
137	7d	0	3
137	9d	0	1
138	7g	0	2
138	8g	0	1
139	7h	0	1
139	8h	0	3
139	9h	0	1
141	7r	0	1
141	8r	0	1
141	9r	0	1
142	8s	0	1
143	8t	0	2
143	9t	0	1
144	8F	0	1
144	8I	0	1
146	9B	0	1
148	9H	0	1
149	9K	0	2
149	9L	0	1
150	9O	0	1
153	Ac	0	2
153	Ae	0	1
153	Ao	0	2
153	BM	0	1
153	BY	0	1
153	CK	0	1
153	CO	0	1
153	CU	0	1
153	CW	0	1
153	DA	0	1
153	DG	0	1
153	DI	0	1
153	DX	0	1
153	EJ	0	1
153	EX	0	1
153	EZ	0	1
153	FJ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
153	FL	0	1
153	HJ	0	2
153	HP	0	1
153	HV	0	2
153	IL	0	2
153	IN	0	1
153	IX	0	2
153	JD	0	1
153	JQ	0	1
153	KO	0	2
153	LM	0	1
153	LO	0	1
153	MA	0	1
153	MM	0	1
153	NA	0	1
153	NM	0	1
153	NU	0	1
153	OC	0	2
153	OO	0	1
153	PA	0	1
153	QJ	0	1
153	QL	0	1
153	QV	0	1
153	QX	0	1
153	RH	0	1
153	SN	0	1
153	ST	0	1
153	SZ	0	1
153	TF	0	1
153	TH	0	1
153	TL	0	1
153	TY	0	1
153	UX	0	1
153	VD	0	1
153	VF	0	1
153	VH	0	1
153	VJ	0	1
153	VP	0	2
153	VR	0	1
153	VT	0	1
153	WF	0	1
153	XJ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
153	XV	0	1
153	YH	0	1
153	YM	0	1
153	YO	0	1
153	ZA	0	1
153	ZE	0	1
153	ZQ	0	2
153	ZS	0	1
154	AZ	0	1
154	AI	0	1
154	BJ	0	1
154	BV	0	1
154	CI	0	1
154	CT	0	1
154	DF	0	1
154	EQ	0	1
154	EW	0	1
154	FA	0	1
154	FC	0	1
154	FM	0	1
154	FO	0	1
154	GC	0	1
154	HE	0	1
154	II	0	3
154	IM	0	1
154	IU	0	3
154	IY	0	2
154	JC	0	1
154	MV	0	2
154	NH	0	2
154	NT	0	2
154	OD	0	1
154	PI	0	1
154	QG	0	2
154	QM	0	1
154	QQ	0	2
154	QS	0	2
154	QY	0	1
154	RC	0	2
154	RE	0	2
154	SM	0	1
154	SS	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
154	SU	0	3
154	TG	0	3
154	VC	0	1
154	WC	0	1
154	WG	0	1
154	WK	0	1
154	WO	0	1
154	WW	0	1
154	XA	0	1
154	XG	0	1
154	XK	0	1
154	XS	0	2
154	XW	0	1
154	YE	0	2
154	YN	0	1
154	YV	0	1
154	YZ	0	1
154	ZL	0	1
All	All	0	361

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
154	KD	196	GLU	CD-OE2	-12.32	1.12	1.25
35	1h	456	SER	CB-OG	-10.54	1.28	1.42
65	3J	751	ARG	CB-CG	-7.33	1.32	1.52
154	IA	339	ARG	CZ-NH2	-6.69	1.24	1.33
16	0z	144	TRP	CD2-CE2	-6.60	1.33	1.41
69	3g	606	GLN	CD-NE2	-6.35	1.17	1.32
86	5A	324	ARG	CZ-NH2	-5.62	1.25	1.33
154	LF	254	GLU	CD-OE1	-5.30	1.19	1.25
68	4I	142	ARG	CZ-NH1	-5.20	1.26	1.33
154	SW	290	GLU	CD-OE2	-5.19	1.20	1.25
154	KD	196	GLU	CD-OE1	-5.18	1.20	1.25

All (783) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	6u	103	ARG	O-C-N	-44.06	52.20	122.70
153	TP	129	CYS	N-CA-CB	-17.95	78.29	110.60
153	TP	129	CYS	CB-CA-C	-11.12	88.17	110.40
154	VC	121	ARG	NE-CZ-NH2	10.31	125.45	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
65	3J	751	ARG	CA-CB-CG	10.21	135.85	113.40
154	SS	105	ARG	NE-CZ-NH2	9.43	125.02	120.30
103	5n	682	ARG	NE-CZ-NH2	9.27	124.93	120.30
143	8t	195	LEU	CA-CB-CG	9.13	136.30	115.30
153	ZA	86	ARG	NE-CZ-NH2	9.08	124.84	120.30
65	3J	163	ARG	NE-CZ-NH2	8.91	124.75	120.30
135	9f	829	LEU	CA-CB-CG	8.89	135.76	115.30
154	IO	221	ARG	NE-CZ-NH2	8.75	124.67	120.30
154	VC	105	ARG	NE-CZ-NH2	8.53	124.57	120.30
137	8d	66	ARG	NE-CZ-NH2	8.53	124.56	120.30
68	4I	102	ARG	NE-CZ-NH2	8.52	124.56	120.30
100	5j	266	ARG	NE-CZ-NH2	8.47	124.53	120.30
143	9b	195	LEU	CA-CB-CG	8.47	134.78	115.30
153	WT	2	ARG	NE-CZ-NH2	8.45	124.53	120.30
120	6k	143	LEU	CA-CB-CG	8.37	134.56	115.30
68	4I	101	ARG	NE-CZ-NH2	8.31	124.46	120.30
153	WH	2	ARG	NE-CZ-NH2	8.26	124.43	120.30
154	VO	105	ARG	NE-CZ-NH2	8.24	124.42	120.30
44	1r	1444	ARG	NE-CZ-NH2	8.22	124.41	120.30
134	7e	547	LEU	CA-CB-CG	8.21	134.19	115.30
26	1X	318	ARG	NE-CZ-NH2	8.18	124.39	120.30
29	1b	659	ARG	NE-CZ-NH2	8.18	124.39	120.30
153	CW	31	ASP	CB-CG-OD1	8.15	125.64	118.30
153	ZA	62	ARG	NE-CZ-NH2	8.14	124.37	120.30
153	CK	31	ASP	CB-CG-OD1	8.12	125.60	118.30
112	6b	1219	ARG	NE-CZ-NH2	8.11	124.35	120.30
135	7f	829	LEU	CA-CB-CG	8.09	133.91	115.30
153	IF	31	ASP	CB-CG-OD1	8.09	125.58	118.30
153	JS	130	LEU	CA-CB-CG	8.06	133.84	115.30
153	JG	130	LEU	CA-CB-CG	8.04	133.78	115.30
121	6n	287	LEU	CA-CB-CG	8.02	133.74	115.30
34	1g	283	LEU	CA-CB-CG	8.00	133.70	115.30
97	5f	211	MET	CA-CB-CG	7.96	126.84	113.30
31	1d	1008	ARG	NE-CZ-NH2	7.94	124.27	120.30
154	ES	269	LEU	CA-CB-CG	7.91	133.49	115.30
53	2W	174	ARG	NE-CZ-NH2	7.88	124.24	120.30
154	HE	326	LYS	CD-CE-NZ	-7.87	93.61	111.70
153	VP	162	ARG	NE-CZ-NH2	7.82	124.21	120.30
59	2t	93	ARG	NE-CZ-NH2	7.74	124.17	120.30
29	1b	632	LEU	CA-CB-CG	7.71	133.02	115.30
153	FX	31	ASP	CB-CG-OD1	7.70	125.23	118.30
153	JB	318	ARG	NE-CZ-NH2	7.68	124.14	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
153	LE	309	ARG	NE-CZ-NH2	7.67	124.14	120.30
99	5i	3677	LEU	CB-CG-CD2	-7.66	97.98	111.00
61	2y	165	ARG	NE-CZ-NH2	7.59	124.09	120.30
26	1X	503	ARG	NE-CZ-NH2	7.56	124.08	120.30
154	IO	326	LYS	CD-CE-NZ	-7.55	94.33	111.70
134	7e	1920	MET	CG-SD-CE	-7.55	88.12	100.20
153	AS	282	ARG	NE-CZ-NH2	7.54	124.07	120.30
75	5u	14	MET	CA-CB-CG	7.51	126.07	113.30
153	XB	86	ARG	NE-CZ-NH2	7.50	124.05	120.30
57	2i	239	ARG	CB-CG-CD	7.48	131.04	111.60
153	IZ	318	ARG	NE-CZ-NH2	7.47	124.04	120.30
77	4Z	262	LEU	CA-CB-CG	7.44	132.41	115.30
77	4V	262	LEU	CA-CB-CG	7.44	132.41	115.30
77	4X	262	LEU	CA-CB-CG	7.44	132.41	115.30
153	FZ	31	ASP	CB-CG-OD1	7.44	125.00	118.30
153	VD	2	ARG	NE-CZ-NH2	7.44	124.02	120.30
154	JA	221	ARG	NE-CZ-NH2	7.42	124.01	120.30
153	AA	377	MET	CB-CG-SD	-7.42	90.16	112.40
153	AY	377	MET	CB-CG-SD	-7.40	90.19	112.40
154	CT	401	LYS	CD-CE-NZ	-7.38	94.72	111.70
47	2D	157	ARG	NE-CZ-NH2	7.36	123.98	120.30
153	AM	377	MET	CB-CG-SD	-7.36	90.32	112.40
153	JS	31	ASP	CB-CG-OD1	7.35	124.91	118.30
76	4P	509	ARG	NE-CZ-NH2	7.33	123.97	120.30
153	DN	31	ASP	CB-CG-OD1	7.33	124.90	118.30
88	5V	222	ARG	NE-CZ-NH2	7.32	123.96	120.30
58	2p	101	ARG	NE-CZ-NH2	7.30	123.95	120.30
153	DT	31	ASP	CB-CG-OD1	7.29	124.86	118.30
30	1c	1153	ARG	NE-CZ-NH2	7.28	123.94	120.30
153	JG	31	ASP	CB-CG-OD1	7.27	124.84	118.30
153	ED	31	ASP	CB-CG-OD1	7.26	124.84	118.30
120	6l	216	ARG	NE-CZ-NH2	7.25	123.92	120.30
95	5d	852	ASP	CB-CG-OD1	7.22	124.80	118.30
154	CT	123	ARG	CA-CB-CG	7.21	129.25	113.40
134	7e	731	LEU	CA-CB-CG	7.20	131.87	115.30
88	5K	425	ARG	NE-CZ-NH2	7.20	123.90	120.30
154	MJ	229	ARG	NE-CZ-NH2	7.19	123.90	120.30
135	9f	1169	ARG	CB-CG-CD	7.19	130.28	111.60
153	DV	31	ASP	CB-CG-OD1	7.17	124.75	118.30
109	6K	323	ARG	NE-CZ-NH2	7.16	123.88	120.30
154	IQ	221	ARG	NE-CZ-NH2	7.15	123.87	120.30
154	WG	221	ARG	NE-CZ-NH2	7.12	123.86	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
86	5B	324	ARG	NE-CZ-NH2	7.12	123.86	120.30
153	GZ	31	ASP	CB-CG-OD1	7.11	124.70	118.30
153	VP	320	ARG	NE-CZ-NH2	7.10	123.85	120.30
153	HL	31	ASP	CB-CG-OD1	7.10	124.69	118.30
154	WG	214	ARG	NE-CZ-NH2	7.09	123.85	120.30
118	6i	38	ARG	NE-CZ-NH2	7.06	123.83	120.30
69	3d	547	ARG	NE-CZ-NH2	7.06	123.83	120.30
153	BO	304	ASP	CB-CG-OD1	7.06	124.65	118.30
153	FH	31	ASP	CB-CG-OD1	7.06	124.65	118.30
59	2q	293	ARG	NE-CZ-NH2	7.05	123.83	120.30
58	2p	91	ARG	NE-CZ-NH2	7.02	123.81	120.30
74	3t	192	ARG	NE-CZ-NH2	7.00	123.80	120.30
142	8s	208	ARG	NE-CZ-NH2	6.99	123.80	120.30
154	BF	401	LYS	CD-CE-NZ	-6.97	95.68	111.70
139	7h	485	LEU	CA-CB-CG	6.96	131.31	115.30
153	VP	2	ARG	NE-CZ-NH2	6.95	123.78	120.30
154	BR	401	LYS	CD-CE-NZ	-6.95	95.72	111.70
153	BC	349	ILE	CG1-CB-CG2	-6.94	96.13	111.40
57	2l	313	ARG	NE-CZ-NH2	6.93	123.77	120.30
153	HT	318	ARG	NE-CZ-NH2	6.92	123.76	120.30
99	5h	161	LEU	CA-CB-CG	6.90	131.17	115.30
87	5G	83	LEU	CA-CB-CG	6.89	131.14	115.30
154	KD	402	ARG	NE-CZ-NH2	6.88	123.74	120.30
154	KD	264	ARG	NE-CZ-NH2	6.88	123.74	120.30
68	4I	142	ARG	NE-CZ-NH2	6.88	123.74	120.30
91	5Y	56	ARG	NE-CZ-NH2	6.87	123.74	120.30
87	5D	83	LEU	CA-CB-CG	6.86	131.08	115.30
153	WH	318	ARG	NE-CZ-NH2	6.86	123.73	120.30
153	JI	31	ASP	CB-CG-OD1	6.85	124.46	118.30
153	SB	251	ARG	NE-CZ-NH2	6.84	123.72	120.30
154	GA	402	ARG	NE-CZ-NH2	6.83	123.72	120.30
60	2u	43	LEU	CA-CB-CG	6.82	130.99	115.30
100	5k	1468	ASP	CB-CG-OD1	6.82	124.44	118.30
5	0Q	119	ARG	NE-CZ-NH2	6.81	123.71	120.30
82	4w	640	ARG	NE-CZ-NH2	6.81	123.71	120.30
30	1c	288	LEU	CA-CB-CG	6.81	130.96	115.30
153	IF	197	ASP	CB-CG-OD1	6.80	124.42	118.30
134	7a	4130	MET	CA-CB-CG	6.80	124.86	113.30
1	0E	30	ARG	NE-CZ-NH2	6.79	123.70	120.30
65	3J	43	ARG	NE-CZ-NH2	6.79	123.69	120.30
153	YM	309	ARG	NE-CZ-NH2	6.78	123.69	120.30
154	IO	345	ASP	CB-CG-OD1	6.76	124.39	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
139	9h	485	LEU	CA-CB-CG	6.75	130.82	115.30
14	0v	148	ARG	NE-CZ-NH2	6.73	123.66	120.30
142	9s	198	ARG	NE-CZ-NH2	6.73	123.66	120.30
153	SB	162	ARG	NE-CZ-NH2	6.72	123.66	120.30
30	1c	1156	ARG	NE-CZ-NH2	6.71	123.66	120.30
153	JQ	241	ARG	NE-CZ-NH2	6.70	123.65	120.30
99	5h	837	ARG	NE-CZ-NH2	6.70	123.65	120.30
153	IL	377	MET	CA-CB-CG	6.70	124.68	113.30
153	XJ	208	TYR	CB-CG-CD2	-6.70	116.98	121.00
134	7e	4190	LEU	CA-CB-CG	6.68	130.65	115.30
154	LV	243	ARG	NE-CZ-NH2	6.67	123.63	120.30
62	3c	259	TYR	C-N-CA	6.67	136.30	122.30
153	KG	46	ARG	CB-CA-C	6.66	123.72	110.40
35	1h	192	LEU	CA-CB-CG	6.63	130.56	115.30
154	LR	185	TYR	CB-CG-CD2	-6.63	117.02	121.00
81	4v	519	ARG	NE-CZ-NH2	6.62	123.61	120.30
153	CU	31	ASP	CB-CG-OD1	6.61	124.25	118.30
47	2E	157	ARG	NE-CZ-NH2	6.60	123.60	120.30
154	VC	121	ARG	NE-CZ-NH1	-6.60	117.00	120.30
143	9b	128	LEU	CA-CB-CG	6.59	130.46	115.30
85	4z	514	LEU	CA-CB-CG	6.58	130.44	115.30
154	FI	424	ASP	CB-CG-OD1	6.58	124.22	118.30
154	SE	121	ARG	NE-CZ-NH2	6.54	123.57	120.30
136	8c	162	ASP	CB-CG-OD1	6.54	124.19	118.30
112	6b	3105	ARG	NE-CZ-NH2	6.54	123.57	120.30
153	IT	268	MET	CA-CB-CG	6.54	124.41	113.30
59	2t	293	ARG	NE-CZ-NH2	6.52	123.56	120.30
153	IH	268	MET	CA-CB-CG	6.51	124.37	113.30
99	5h	832	ARG	NE-CZ-NH2	6.50	123.55	120.30
139	8h	485	LEU	CA-CB-CG	6.50	130.24	115.30
154	FI	221	ARG	NE-CZ-NH2	6.50	123.55	120.30
153	JM	2	ARG	NE-CZ-NH2	6.50	123.55	120.30
18	1F	125	LEU	CA-CB-CG	6.49	130.22	115.30
154	PI	121	ARG	NE-CZ-NH2	6.49	123.54	120.30
154	HQ	326	LYS	CD-CE-NZ	-6.48	96.79	111.70
153	FN	282	ARG	NE-CZ-NH2	6.48	123.54	120.30
135	7f	1166	ARG	CA-CB-CG	6.48	127.65	113.40
18	1E	125	LEU	CA-CB-CG	6.48	130.19	115.30
113	6c	256	ARG	NE-CZ-NH2	6.47	123.54	120.30
153	ET	267	MET	CA-CB-CG	6.47	124.30	113.30
154	JA	402	ARG	NE-CZ-NH2	6.47	123.53	120.30
109	6P	327	ARG	NE-CZ-NH2	6.46	123.53	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
153	ST	162	ARG	NE-CZ-NH2	6.46	123.53	120.30
154	JA	326	LYS	CD-CE-NZ	-6.46	96.85	111.70
2	0H	707	ASP	CB-CG-OD1	6.43	124.08	118.30
153	BW	86	ARG	NE-CZ-NH2	6.43	123.51	120.30
154	PS	308	ARG	NE-CZ-NH2	6.42	123.51	120.30
153	SP	320	ARG	NE-CZ-NH2	6.41	123.51	120.30
115	6e	3776	ASP	CB-CG-OD1	6.40	124.06	118.30
153	FJ	318	ARG	NE-CZ-NH2	6.40	123.50	120.30
154	XK	373	ARG	NE-CZ-NH2	6.40	123.50	120.30
68	4K	113	ARG	NE-CZ-NH2	6.39	123.50	120.30
153	XJ	213	ARG	NE-CZ-NH2	6.39	123.49	120.30
143	9t	180	ARG	NE-CZ-NH2	6.37	123.49	120.30
2	0I	707	ASP	CB-CG-OD1	6.37	124.03	118.30
2	0G	707	ASP	CB-CG-OD1	6.37	124.03	118.30
153	IX	377	MET	CB-CG-SD	-6.37	93.31	112.40
154	YV	339	ARG	NE-CZ-NH2	6.35	123.48	120.30
73	3p	148	PRO	CA-N-CD	-6.34	102.62	111.50
153	TY	318	ARG	NE-CZ-NH2	6.34	123.47	120.30
153	WV	306	ARG	NE-CZ-NH2	6.34	123.47	120.30
69	3d	532	ARG	NE-CZ-NH2	6.34	123.47	120.30
58	2p	97	ARG	NE-CZ-NH2	6.33	123.47	120.30
149	9K	22	ARG	NE-CZ-NH2	6.33	123.46	120.30
153	PH	330	MET	CB-CG-SD	6.32	131.36	112.40
154	XO	79	ARG	NE-CZ-NH2	6.32	123.46	120.30
154	LV	2	ARG	NE-CZ-NH2	6.31	123.46	120.30
57	2i	298	PRO	CA-N-CD	-6.30	102.68	111.50
154	VC	221	ARG	NE-CZ-NH2	6.29	123.44	120.30
14	0w	313	ARG	NE-CZ-NH2	6.29	123.44	120.30
88	5V	217	ARG	NE-CZ-NH2	6.29	123.44	120.30
134	7a	1842	ASP	CB-CG-OD1	6.28	123.95	118.30
154	II	105	ARG	NE-CZ-NH2	6.28	123.44	120.30
120	6l	206	ARG	CA-CB-CG	6.27	127.20	113.40
153	Ae	380	ARG	NE-CZ-NH2	6.27	123.44	120.30
153	GR	379	ARG	NE-CZ-NH2	6.27	123.43	120.30
153	HP	377	MET	CB-CG-SD	-6.27	93.59	112.40
56	2h	325	ARG	NE-CZ-NH2	6.26	123.43	120.30
134	8e	172	ARG	CB-CG-CD	6.25	127.85	111.60
65	3J	771	ARG	NE-CZ-NH2	6.25	123.42	120.30
153	KO	213	ARG	NE-CZ-NH2	6.24	123.42	120.30
100	5k	4288	ASP	CB-CG-OD1	6.24	123.92	118.30
135	9f	1166	ARG	CA-CB-CG	6.22	127.09	113.40
153	TH	46	ARG	NE-CZ-NH2	6.22	123.41	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
134	8e	4351	ASP	CB-CG-OD1	6.22	123.89	118.30
154	IE	326	LYS	CD-CE-NZ	-6.21	97.41	111.70
154	SU	373	ARG	NE-CZ-NH2	6.21	123.41	120.30
154	XO	121	ARG	NE-CZ-NH2	6.21	123.41	120.30
153	AG	391	ARG	NE-CZ-NH2	6.21	123.41	120.30
153	FX	225	LEU	CA-CB-CG	6.21	129.59	115.30
153	IB	377	MET	CB-CG-SD	-6.21	93.77	112.40
153	PN	200	MET	CB-CG-SD	6.21	131.03	112.40
58	2n	40	GLU	CA-CB-CG	6.21	127.05	113.40
134	9e	1842	ASP	CB-CG-OD1	6.21	123.89	118.30
54	2X	365	CYS	N-CA-CB	-6.20	99.44	110.60
153	TY	320	ARG	NE-CZ-NH2	6.20	123.40	120.30
154	MP	185	TYR	CB-CG-CD2	-6.20	117.28	121.00
154	IQ	326	LYS	CD-CE-NZ	-6.20	97.45	111.70
68	4K	124	ARG	NE-CZ-NH2	6.19	123.40	120.30
154	HS	221	ARG	NE-CZ-NH2	6.19	123.39	120.30
153	IL	377	MET	CB-CG-SD	-6.19	93.83	112.40
153	VD	162	ARG	NE-CZ-NH2	6.19	123.39	120.30
134	7e	1842	ASP	CB-CG-OD1	6.18	123.86	118.30
142	8s	232	LEU	CA-CB-CG	6.18	129.53	115.30
154	TX	214	ARG	NE-CZ-NH2	6.18	123.39	120.30
36	1i	522	ARG	CB-CG-CD	6.18	127.66	111.60
59	2t	390	ARG	NE-CZ-NH2	6.18	123.39	120.30
153	CS	200	MET	CB-CG-SD	6.18	130.93	112.40
154	HQ	215	ARG	CG-CD-NE	-6.17	98.83	111.80
65	3J	779	LEU	CB-CG-CD1	6.17	121.48	111.00
76	4P	501	ARG	NE-CZ-NH2	6.17	123.38	120.30
154	IO	221	ARG	NE-CZ-NH1	-6.16	117.22	120.30
153	PT	330	MET	CB-CG-SD	6.16	130.89	112.40
153	PZ	200	MET	CB-CG-SD	6.16	130.88	112.40
134	8e	547	LEU	CA-CB-CG	6.16	129.47	115.30
153	QL	391	ARG	NE-CZ-NH2	6.15	123.38	120.30
153	JD	318	ARG	NE-CZ-NH2	6.14	123.37	120.30
137	7d	76	ARG	NE-CZ-NH2	6.14	123.37	120.30
137	8d	76	ARG	NE-CZ-NH2	6.13	123.37	120.30
73	3l	36	PRO	CA-N-CD	-6.12	102.93	111.50
153	HD	377	MET	CB-CG-SD	-6.12	94.04	112.40
154	PI	79	ARG	NE-CZ-NH2	6.12	123.36	120.30
153	FF	267	MET	CB-CG-SD	-6.12	94.05	112.40
66	3N	9	LEU	CA-CB-CG	6.11	129.35	115.30
59	2q	293	ARG	NE-CZ-NH1	-6.11	117.25	120.30
153	FR	267	MET	CB-CG-SD	-6.11	94.08	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
66	3T	9	LEU	CA-CB-CG	6.09	129.32	115.30
154	WG	214	ARG	NE-CZ-NH1	-6.09	117.26	120.30
15	0x	127	ASP	CB-CG-OD1	6.08	123.78	118.30
37	1j	55	MET	CA-CB-CG	6.08	123.64	113.30
66	3Q	9	LEU	CA-CB-CG	6.08	129.28	115.30
153	ZS	380	ARG	NE-CZ-NH2	6.08	123.34	120.30
65	3J	608	GLU	CA-CB-CG	6.08	126.77	113.40
76	4S	543	ARG	NE-CZ-NH2	6.08	123.34	120.30
92	5a	276	ARG	NE-CZ-NH2	6.08	123.34	120.30
154	MP	205	ASP	CB-CG-OD1	6.08	123.77	118.30
153	BW	62	ARG	NE-CZ-NH2	6.07	123.34	120.30
153	IZ	241	ARG	NE-CZ-NH1	6.07	123.33	120.30
59	2r	543	ASP	CB-CG-OD1	6.07	123.76	118.30
100	5k	3939	MET	CG-SD-CE	-6.07	90.50	100.20
153	IJ	162	ARG	NE-CZ-NH2	6.06	123.33	120.30
76	4P	147	LEU	CA-CB-CG	6.05	129.22	115.30
76	4S	147	LEU	CA-CB-CG	6.05	129.22	115.30
153	KQ	276	ARG	NE-CZ-NH2	6.05	123.33	120.30
154	FI	173	PRO	CA-N-CD	-6.04	103.05	111.50
8	0c	66	ARG	NE-CZ-NH2	6.04	123.32	120.30
27	1Z	20	ASP	CB-CG-OD1	6.04	123.73	118.30
154	TX	105	ARG	NE-CZ-NH2	6.03	123.32	120.30
153	QR	324	LYS	CD-CE-NZ	-6.03	97.83	111.70
100	5k	3850	LEU	CA-CB-CG	6.03	129.16	115.30
153	SB	164	MET	CB-CG-SD	-6.03	94.32	112.40
103	5n	535	ARG	NE-CZ-NH2	6.02	123.31	120.30
143	9b	182	ARG	NE-CZ-NH2	6.02	123.31	120.30
100	5k	1808	LEU	CA-CB-CG	6.01	129.13	115.30
45	1t	1656	ARG	NE-CZ-NH2	6.01	123.30	120.30
97	5f	201	ARG	NE-CZ-NH2	6.00	123.30	120.30
137	9d	62	ARG	NE-CZ-NH2	6.00	123.30	120.30
153	CW	209	ASP	CB-CG-OD1	6.00	123.70	118.30
27	1Y	20	ASP	CB-CG-OD1	6.00	123.70	118.30
153	RD	324	LYS	CD-CE-NZ	-6.00	97.90	111.70
153	FX	65	LEU	CA-CB-CG	6.00	129.09	115.30
134	8e	1842	ASP	CB-CG-OD1	5.99	123.69	118.30
154	RS	121	ARG	NE-CZ-NH2	5.99	123.30	120.30
111	6a	347	ARG	CA-CB-CG	5.99	126.57	113.40
51	2P	95	ASP	CB-CG-OD1	5.99	123.69	118.30
154	IO	210	TYR	CB-CG-CD2	-5.98	117.41	121.00
57	2i	271	GLU	CA-CB-CG	5.98	126.55	113.40
75	9p	14	MET	CA-CB-CG	5.97	123.45	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
153	RP	164	MET	CB-CG-SD	-5.97	94.49	112.40
58	2n	64	LEU	CB-CG-CD1	-5.97	100.85	111.00
154	UJ	105	ARG	NE-CZ-NH2	5.96	123.28	120.30
153	BS	377	MET	CB-CG-SD	-5.96	94.51	112.40
65	3J	751	ARG	CB-CG-CD	5.96	127.10	111.60
141	9r	107	LEU	CA-CB-CG	5.96	129.01	115.30
80	4t	665	ARG	NE-CZ-NH2	5.95	123.28	120.30
134	7a	4190	LEU	CA-CB-CG	5.95	128.98	115.30
153	KE	130	LEU	CA-CB-CG	5.95	128.98	115.30
112	6b	3087	LEU	CA-CB-CG	5.94	128.96	115.30
4	0M	196	LEU	CA-CB-CG	5.94	128.96	115.30
153	IN	74	ASP	CB-CG-OD1	5.94	123.64	118.30
26	1X	317	GLY	O-C-N	5.94	132.20	122.70
142	8s	202	ARG	NE-CZ-NH2	5.94	123.27	120.30
153	QF	324	LYS	CD-CE-NZ	-5.94	98.05	111.70
154	IG	203	MET	CG-SD-CE	-5.93	90.71	100.20
153	WV	187	LEU	CA-CB-CG	-5.93	101.65	115.30
37	1j	256	ARG	NE-CZ-NH2	5.92	123.26	120.30
153	AO	31	ASP	CB-CG-OD1	5.92	123.63	118.30
153	WJ	187	LEU	CA-CB-CG	-5.92	101.69	115.30
154	HC	424	ASP	CB-CG-OD1	5.91	123.62	118.30
135	9f	1170	ASP	CB-CG-OD1	5.91	123.62	118.30
30	1c	710	ARG	NE-CZ-NH2	5.91	123.25	120.30
154	KZ	326	LYS	CD-CE-NZ	-5.91	98.12	111.70
51	2Q	95	ASP	CB-CG-OD1	5.90	123.61	118.30
153	CK	209	ASP	CB-CG-OD1	5.90	123.61	118.30
134	8e	2033	ASP	CB-CG-OD1	5.90	123.61	118.30
33	1f	194	LEU	CA-CB-CG	5.89	128.86	115.30
153	CE	377	MET	CB-CG-SD	-5.89	94.72	112.40
153	BG	377	MET	CB-CG-SD	-5.89	94.74	112.40
10	0q	1066	TYR	CB-CG-CD2	-5.87	117.47	121.00
153	FH	299	MET	CB-CG-SD	5.87	130.01	112.40
153	DC	306	ARG	NE-CZ-NH2	5.87	123.23	120.30
153	AC	31	ASP	CB-CG-OD1	5.87	123.58	118.30
154	SS	215	ARG	NE-CZ-NH2	5.87	123.23	120.30
62	3c	212	ARG	NE-CZ-NH2	5.87	123.23	120.30
154	ZN	227	LEU	CA-CB-CG	5.87	128.79	115.30
137	9d	76	ARG	NE-CZ-NH2	5.86	123.23	120.30
154	Al	227	LEU	CA-CB-CG	5.86	128.78	115.30
153	AA	377	MET	CA-CB-CG	5.86	123.26	113.30
140	7j	27	PRO	CA-N-CD	-5.86	103.30	111.50
153	AY	377	MET	CA-CB-CG	5.86	123.26	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	SU	413	MET	CB-CG-SD	-5.86	94.83	112.40
86	5A	355	ARG	NE-CZ-NH2	5.86	123.23	120.30
153	UI	267	MET	CA-CB-CG	5.85	123.25	113.30
134	9e	1943	ASP	CB-CG-OD1	5.85	123.56	118.30
54	2Y	269	ARG	NE-CZ-NH2	5.85	123.22	120.30
135	7b	3083	ASP	CB-CG-OD1	5.84	123.56	118.30
153	EX	318	ARG	NE-CZ-NH2	5.84	123.22	120.30
153	TW	267	MET	CA-CB-CG	5.84	123.23	113.30
154	ZZ	227	LEU	CA-CB-CG	5.84	128.73	115.30
153	IH	31	ASP	CB-CG-OD1	5.83	123.55	118.30
154	YP	79	ARG	NE-CZ-NH2	5.82	123.21	120.30
112	6b	1155	ARG	NE-CZ-NH2	5.82	123.21	120.30
119	6j	275	LEU	CA-CB-CG	5.82	128.68	115.30
153	AM	377	MET	CA-CB-CG	5.81	123.18	113.30
153	DE	200	MET	CB-CG-SD	5.81	129.84	112.40
154	TG	413	MET	CB-CG-SD	-5.81	94.96	112.40
90	5R	106	ARG	NE-CZ-NH2	5.81	123.21	120.30
153	XF	362	LYS	CA-CB-CG	5.81	126.19	113.40
153	UU	267	MET	CA-CB-CG	5.81	123.17	113.30
135	9f	1169	ARG	CG-CD-NE	-5.80	99.61	111.80
153	IT	31	ASP	CB-CG-OD1	5.80	123.52	118.30
154	XE	116	ASP	CB-CG-OD1	5.80	123.52	118.30
134	8e	662	LYS	CA-CB-CG	5.79	126.14	113.40
154	LR	390	ARG	NE-CZ-NH2	5.79	123.19	120.30
154	IO	221	ARG	CD-NE-CZ	5.78	131.70	123.60
42	1o	254	LEU	CA-CB-CG	5.78	128.59	115.30
118	6i	382	ARG	NE-CZ-NH2	5.78	123.19	120.30
135	7b	3986	LEU	CA-CB-CG	5.78	128.59	115.30
135	8f	3986	LEU	CA-CB-CG	5.78	128.59	115.30
154	ZB	326	LYS	CD-CE-NZ	-5.78	98.42	111.70
111	6a	673	ASP	CB-CG-OD1	5.77	123.50	118.30
153	ET	267	MET	CB-CG-SD	-5.77	95.08	112.40
112	6b	3251	LEU	CB-CG-CD1	-5.76	101.21	111.00
54	2X	269	ARG	NE-CZ-NH2	5.76	123.18	120.30
153	PZ	200	MET	CA-CB-CG	-5.75	103.52	113.30
154	TI	282	TYR	CB-CG-CD2	-5.75	117.55	121.00
32	1e	78	TYR	CB-CG-CD2	-5.75	117.55	121.00
150	9P	124	LEU	CA-CB-CG	5.74	128.51	115.30
150	9M	124	LEU	CA-CB-CG	5.74	128.51	115.30
96	5e	110	ARG	NE-CZ-NH2	5.74	123.17	120.30
31	1d	1028	MET	CA-CB-CG	5.74	123.05	113.30
37	1j	156	LEU	CA-CB-CG	5.74	128.50	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	3c	228	LEU	CA-CB-CG	5.74	128.50	115.30
150	9S	124	LEU	CA-CB-CG	5.74	128.49	115.30
65	3J	236	ARG	NE-CZ-NH2	5.73	123.17	120.30
135	9f	769	ASP	CB-CG-OD1	5.73	123.46	118.30
153	PN	200	MET	CA-CB-CG	-5.73	103.56	113.30
153	XB	58	ARG	NE-CZ-NH2	5.73	123.16	120.30
112	6b	3442	LEU	CB-CG-CD2	-5.72	101.27	111.00
154	IA	339	ARG	NE-CZ-NH1	5.71	123.16	120.30
134	8e	2687	ASP	CB-CG-OD1	5.70	123.43	118.30
154	LR	205	ASP	CB-CG-OD1	5.70	123.43	118.30
135	9f	2980	ASP	CB-CG-OD1	5.70	123.43	118.30
153	LC	276	ARG	NE-CZ-NH2	5.69	123.15	120.30
44	1r	1356	GLU	CA-CB-CG	5.69	125.92	113.40
68	4I	101	ARG	NE-CZ-NH1	-5.69	117.45	120.30
136	9c	350	ARG	CB-CG-CD	5.69	126.40	111.60
62	3a	114	ASP	CB-CG-OD1	-5.69	113.18	118.30
153	BO	377	MET	CA-CB-CG	5.69	122.97	113.30
154	FY	424	ASP	CB-CG-OD1	5.69	123.42	118.30
109	6P	323	ARG	NE-CZ-NH2	5.68	123.14	120.30
114	6d	294	TRP	CA-CB-CG	5.68	124.50	113.70
35	1h	419	LYS	CA-CB-CG	5.68	125.89	113.40
153	CS	31	ASP	CB-CG-OD1	5.68	123.41	118.30
76	4S	362	LEU	CA-CB-CG	5.68	128.36	115.30
59	2t	139	GLU	CA-CB-CG	5.67	125.87	113.40
76	4P	362	LEU	CA-CB-CG	5.67	128.34	115.30
65	3J	274	ARG	NE-CZ-NH2	5.67	123.13	120.30
137	7d	54	ARG	NE-CZ-NH2	5.66	123.13	120.30
62	3b	75	ASP	CB-CG-OD1	5.66	123.39	118.30
69	3f	108	LEU	CA-CB-CG	5.65	128.31	115.30
59	2q	251	ARG	NE-CZ-NH2	5.65	123.12	120.30
154	LB	185	TYR	CB-CG-CD2	-5.65	117.61	121.00
135	8f	769	ASP	CB-CG-OD1	5.64	123.38	118.30
112	6b	2285	LEU	CA-CB-CG	5.64	128.28	115.30
75	7n	14	MET	CA-CB-CG	5.64	122.89	113.30
154	Ad	367	ASP	CB-CG-OD1	5.64	123.38	118.30
154	SS	185	TYR	CB-CG-CD2	-5.64	117.62	121.00
102	5m	246	ASP	CB-CG-OD1	5.63	123.37	118.30
109	6J	267	ARG	NE-CZ-NH2	5.63	123.12	120.30
154	FG	189	LEU	CB-CG-CD1	5.63	120.58	111.00
153	FV	299	MET	CB-CG-SD	5.63	129.30	112.40
154	LD	373	ARG	NE-CZ-NH2	5.63	123.12	120.30
154	FE	269	LEU	CA-CB-CG	5.63	128.25	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
153	KO	276	ARG	NE-CZ-NH2	5.62	123.11	120.30
54	2X	365	CYS	CA-CB-SG	5.62	124.12	114.00
153	EH	306	ARG	NE-CZ-NH2	5.62	123.11	120.30
154	FQ	269	LEU	CA-CB-CG	5.62	128.23	115.30
154	WA	221	ARG	CA-CB-CG	5.62	125.77	113.40
61	2v	286	ASP	CB-CG-OD1	5.61	123.35	118.30
82	4w	283	ARG	NE-CZ-NH2	5.61	123.11	120.30
153	DV	74	ASP	CB-CG-OD1	5.61	123.35	118.30
80	4s	798	LEU	CA-CB-CG	5.61	128.20	115.30
80	4t	680	ARG	NE-CZ-NH2	5.61	123.10	120.30
51	2Q	168	ARG	NE-CZ-NH2	5.60	123.10	120.30
153	EB	31	ASP	CB-CG-OD1	5.60	123.34	118.30
81	4u	90	LEU	CA-CB-CG	5.59	128.17	115.30
153	BO	377	MET	CB-CG-SD	-5.59	95.62	112.40
154	LB	402	ARG	NE-CZ-NH2	5.59	123.10	120.30
81	4v	562	ILE	CG1-CB-CG2	-5.59	99.10	111.40
153	DA	391	ARG	NE-CZ-NH2	5.58	123.09	120.30
154	JP	79	ARG	NE-CZ-NH2	5.58	123.09	120.30
154	PI	84	ARG	NE-CZ-NH2	5.58	123.09	120.30
65	3K	274	ARG	NE-CZ-NH2	5.58	123.09	120.30
112	6b	1514	MET	CA-CB-CG	5.58	122.78	113.30
114	6d	285	TYR	CB-CG-CD1	-5.58	117.65	121.00
86	5B	58	ARG	NE-CZ-NH2	5.57	123.09	120.30
1	0D	250	ASP	CB-CG-OD1	5.57	123.31	118.30
153	DE	106	TYR	CB-CG-CD2	-5.57	117.66	121.00
144	8D	20	TYR	C-N-CA	5.57	133.99	122.30
154	WG	423	GLU	N-CA-CB	5.57	120.62	110.60
61	2y	39	ARG	NE-CZ-NH2	5.56	123.08	120.30
75	8n	86	LEU	CA-CB-CG	5.56	128.09	115.30
135	9f	4291	ASP	CB-CG-OD1	5.56	123.31	118.30
153	PT	200	MET	CA-CB-CG	-5.56	103.84	113.30
154	DU	33	ASP	CB-CG-OD1	5.56	123.31	118.30
153	IP	31	ASP	CB-CG-OD1	5.56	123.30	118.30
154	WG	90	GLU	CA-CB-CG	5.56	125.63	113.40
114	6d	3258	ASP	CB-CG-OD1	5.56	123.30	118.30
153	PT	200	MET	CB-CG-SD	5.56	129.07	112.40
100	5k	1675	LEU	CA-CB-CG	5.56	128.08	115.30
153	RR	380	ARG	CB-CG-CD	-5.56	97.16	111.60
153	SD	19	LYS	CD-CE-NZ	-5.56	98.92	111.70
35	1h	56	MET	CA-CB-CG	5.55	122.74	113.30
154	KZ	282	TYR	CA-CB-CG	5.55	123.95	113.40
141	9r	80	ILE	CG1-CB-CG2	-5.55	99.18	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
142	8s	504	ARG	NE-CZ-NH2	5.55	123.08	120.30
153	RR	19	LYS	CD-CE-NZ	-5.55	98.93	111.70
153	ST	251	ARG	NE-CZ-NH2	5.54	123.07	120.30
135	7f	4291	ASP	CB-CG-OD1	5.54	123.28	118.30
73	3p	90	ASP	CB-CG-OD1	5.54	123.28	118.30
154	NL	185	TYR	CB-CG-CD2	-5.54	117.68	121.00
135	7b	4291	ASP	CB-CG-OD1	5.53	123.28	118.30
153	HF	309	ARG	NE-CZ-NH2	5.53	123.06	120.30
153	Ao	225	LEU	CA-CB-CG	5.53	128.01	115.30
154	YP	326	LYS	CD-CE-NZ	-5.53	98.99	111.70
75	5v	14	MET	CA-CB-CG	5.53	122.69	113.30
100	5j	264	ARG	NE-CZ-NH2	5.52	123.06	120.30
135	8f	1042	ASP	CB-CG-OD1	5.52	123.27	118.30
135	8f	3049	ASP	CB-CG-OD1	5.52	123.27	118.30
154	IO	203	MET	CG-SD-CE	5.52	109.04	100.20
111	6a	919	LEU	CB-CG-CD1	5.52	120.38	111.00
153	DV	284	LEU	CA-CB-CG	5.52	127.99	115.30
153	ZQ	225	LEU	CA-CB-CG	5.52	128.00	115.30
100	5k	2532	MET	CB-CG-SD	-5.52	95.85	112.40
153	ID	31	ASP	CB-CG-OD1	5.52	123.27	118.30
153	BU	406	MET	CA-CB-CG	5.51	122.67	113.30
128	6u	103	ARG	CA-C-O	-5.51	108.53	120.10
153	AG	62	ARG	NE-CZ-NH2	5.51	123.06	120.30
153	PH	200	MET	CB-CG-SD	5.51	128.92	112.40
154	MP	390	ARG	NE-CZ-NH2	5.50	123.05	120.30
153	VD	318	ARG	NE-CZ-NH2	5.50	123.05	120.30
33	1f	240	MET	CB-CG-SD	-5.50	95.90	112.40
153	ER	200	MET	CA-CB-CG	5.50	122.65	113.30
153	IP	320	ARG	NE-CZ-NH2	5.50	123.05	120.30
57	2l	323	ARG	NE-CZ-NH2	5.50	123.05	120.30
154	VO	185	TYR	CB-CG-CD2	-5.49	117.70	121.00
135	9f	978	PRO	CA-N-CD	-5.49	103.81	111.50
153	Ac	225	LEU	CA-CB-CG	5.49	127.93	115.30
39	1l	394	ILE	CG1-CB-CG2	-5.49	99.33	111.40
55	2b	58	MET	CB-CG-SD	5.48	128.84	112.40
65	3J	182	TYR	CB-CG-CD2	-5.48	117.71	121.00
143	8t	180	ARG	NE-CZ-NH2	5.48	123.04	120.30
153	PH	200	MET	CA-CB-CG	-5.47	103.99	113.30
153	Ae	391	ARG	NE-CZ-NH2	5.47	123.03	120.30
88	5K	424	ARG	NE-CZ-NH2	5.47	123.03	120.30
153	ET	31	ASP	CB-CG-OD1	5.46	123.22	118.30
15	0y	651	MET	CA-CB-CG	5.45	122.57	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
112	6b	430	LEU	CA-CB-CG	5.45	127.84	115.30
153	LU	183	TYR	CB-CG-CD2	-5.45	117.73	121.00
153	WH	320	ARG	NE-CZ-NH2	5.45	123.03	120.30
76	4P	500	ARG	NE-CZ-NH2	5.45	123.02	120.30
139	8h	103	GLU	CA-CB-CG	5.45	125.39	113.40
154	QY	84	ARG	NE-CZ-NH2	5.45	123.02	120.30
153	PN	268	MET	CA-CB-CG	5.44	122.55	113.30
65	3K	251	ARG	NE-CZ-NH2	5.44	123.02	120.30
112	6b	1163	ARG	NE-CZ-NH2	5.44	123.02	120.30
154	KD	422	ARG	NE-CZ-NH2	5.43	123.02	120.30
32	1e	182	ARG	NE-CZ-NH2	5.43	123.02	120.30
57	2k	128	ASP	CB-CG-OD1	5.43	123.19	118.30
135	8f	4291	ASP	CB-CG-OD1	5.43	123.18	118.30
153	KQ	213	ARG	NE-CZ-NH2	5.43	123.01	120.30
153	SD	380	ARG	CB-CG-CD	-5.43	97.49	111.60
153	IX	377	MET	CA-CB-CG	5.42	122.52	113.30
58	2p	37	ARG	NE-CZ-NH2	5.42	123.01	120.30
69	3d	545	ARG	NE-CZ-NH2	5.41	123.00	120.30
134	9e	2687	ASP	CB-CG-OD1	5.41	123.17	118.30
153	UE	65	LEU	CA-CB-CG	5.40	127.72	115.30
151	9V	155	LEU	CA-CB-CG	5.40	127.72	115.30
137	9d	63	ARG	NE-CZ-NH2	5.40	123.00	120.30
154	HA	251	ASP	CB-CG-OD1	5.40	123.16	118.30
153	PZ	162	ARG	CG-CD-NE	5.40	123.14	111.80
135	9f	3986	LEU	CA-CB-CG	5.40	127.71	115.30
149	9K	32	ARG	NE-CZ-NH2	5.39	123.00	120.30
151	9U	155	LEU	CA-CB-CG	5.39	127.70	115.30
62	3a	238	MET	C-N-CA	-5.39	108.23	121.70
154	PI	157	LEU	CA-CB-CG	5.39	127.70	115.30
154	ON	402	ARG	NE-CZ-NH2	5.39	122.99	120.30
151	9T	155	LEU	CA-CB-CG	5.38	127.69	115.30
153	FR	267	MET	CA-CB-CG	5.38	122.45	113.30
31	1d	950	LYS	CB-CA-C	5.38	121.16	110.40
97	5f	191	ALA	O-C-N	5.38	131.30	122.70
154	NL	264	ARG	NE-CZ-NH2	5.38	122.99	120.30
4	0M	622	ASP	CB-CG-OD1	5.37	123.13	118.30
153	TS	65	LEU	CA-CB-CG	5.37	127.64	115.30
153	UQ	65	LEU	CA-CB-CG	5.37	127.64	115.30
103	5n	332	ARG	NE-CZ-NH2	5.36	122.98	120.30
154	JR	79	ARG	NE-CZ-NH2	5.36	122.98	120.30
45	1t	1296	MET	CB-CG-SD	5.36	128.49	112.40
144	8D	21	GLY	N-CA-C	5.36	126.50	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
153	CK	67	ASP	CB-CG-OD1	5.36	123.13	118.30
76	4R	96	ASP	CB-CG-OD1	5.36	123.12	118.30
153	IP	328	GLU	CA-CB-CG	5.36	125.19	113.40
52	2S	119	ARG	NE-CZ-NH2	5.36	122.98	120.30
65	3J	498	ARG	NE-CZ-NH2	5.36	122.98	120.30
153	ID	328	GLU	CA-CB-CG	5.35	125.17	113.40
29	1b	667	ARG	NE-CZ-NH2	5.35	122.97	120.30
109	6I	113	ASP	CB-CG-OD1	5.35	123.11	118.30
135	9f	799	MET	CB-CG-SD	5.35	128.44	112.40
143	9t	401	LEU	CA-CB-CG	5.35	127.59	115.30
153	JQ	46	ARG	NE-CZ-NH2	5.34	122.97	120.30
54	2X	259	ARG	NE-CZ-NH2	5.34	122.97	120.30
76	4O	96	ASP	CB-CG-OD1	5.34	123.11	118.30
153	PZ	268	MET	CA-CB-CG	5.34	122.38	113.30
99	5h	936	MET	CB-CG-SD	-5.34	96.38	112.40
154	BH	33	ASP	CB-CG-OD1	5.34	123.11	118.30
153	PX	268	MET	CA-CB-CG	5.34	122.38	113.30
135	8f	749	LEU	CA-CB-CG	5.33	127.56	115.30
153	PN	162	ARG	CG-CD-NE	5.33	123.00	111.80
153	FF	267	MET	CA-CB-CG	5.33	122.36	113.30
134	7e	2687	ASP	CB-CG-OD1	5.33	123.09	118.30
65	3J	44	ARG	NE-CZ-NH2	5.33	122.96	120.30
135	9f	2125	ASP	CB-CG-OD1	5.33	123.09	118.30
154	HE	185	TYR	CB-CG-CD2	-5.33	117.81	121.00
153	PL	268	MET	CA-CB-CG	5.33	122.36	113.30
76	4Q	362	LEU	CA-CB-CG	5.32	127.54	115.30
75	9n	14	MET	CA-CB-CG	5.32	122.35	113.30
154	TX	221	ARG	NE-CZ-NH2	5.32	122.96	120.30
154	YP	2	ARG	NE-CZ-NH2	5.32	122.96	120.30
76	4T	362	LEU	CA-CB-CG	5.31	127.52	115.30
135	9f	1042	ASP	CB-CG-OD1	5.31	123.08	118.30
153	CW	67	ASP	CB-CG-OD1	5.31	123.08	118.30
154	SS	214	ARG	NE-CZ-NH2	5.31	122.96	120.30
17	1C	135	ASP	CB-CG-OD1	5.31	123.08	118.30
76	4U	96	ASP	CB-CG-OD1	5.31	123.08	118.30
74	3t	29	LEU	CA-CB-CG	5.30	127.50	115.30
135	7b	1483	TRP	C-N-CA	-5.30	108.44	121.70
138	8g	330	LEU	CA-CB-CG	5.30	127.50	115.30
138	9g	330	LEU	CA-CB-CG	5.30	127.50	115.30
153	GR	262	ARG	NE-CZ-NH2	5.30	122.95	120.30
100	5j	363	ARG	NE-CZ-NH2	5.30	122.95	120.30
153	IZ	377	MET	CB-CG-SD	-5.30	96.50	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
153	CU	200	MET	CB-CG-SD	5.30	128.29	112.40
154	JH	397	LEU	CA-CB-CG	5.30	127.48	115.30
110	7E	168	PRO	CA-N-CD	-5.29	104.09	111.50
135	9f	749	LEU	CA-CB-CG	5.29	127.47	115.30
118	6i	68	ARG	NE-CZ-NH2	5.29	122.94	120.30
65	3J	748	ARG	NE-CZ-NH2	5.28	122.94	120.30
154	DO	172	TYR	CA-CB-CG	5.28	123.44	113.40
135	9f	657	PRO	CA-N-CD	-5.28	104.11	111.50
153	ED	387	LEU	CA-CB-CG	5.28	127.43	115.30
153	AG	58	ARG	NE-CZ-NH2	5.27	122.94	120.30
59	2q	173	TYR	CB-CG-CD2	-5.27	117.84	121.00
153	CC	164	MET	CB-CG-SD	-5.27	96.59	112.40
137	7d	63	ARG	NE-CZ-NH2	5.27	122.93	120.30
153	BQ	164	MET	CB-CG-SD	-5.27	96.60	112.40
154	EC	396	ASP	CB-CG-OD1	5.27	123.04	118.30
136	9c	177	MET	CG-SD-CE	-5.27	91.78	100.20
153	IP	328	GLU	N-CA-CB	5.26	120.07	110.60
17	1G	135	ASP	CB-CG-OD1	5.26	123.04	118.30
154	BH	301	MET	CG-SD-CE	-5.26	91.78	100.20
5	0Q	196	ASP	CB-CG-OD2	5.26	123.03	118.30
65	3J	503	PHE	CB-CG-CD2	-5.25	117.12	120.80
69	3f	128	TRP	CA-CB-CG	5.25	123.67	113.70
31	1d	912	LEU	CA-CB-CG	5.25	127.37	115.30
142	7s	504	ARG	NE-CZ-NH2	5.25	122.92	120.30
57	2k	231	ARG	CB-CG-CD	5.24	125.23	111.60
37	1j	328	LEU	CA-CB-CG	5.24	127.35	115.30
153	ID	328	GLU	N-CA-CB	5.24	120.03	110.60
92	5a	284	ARG	NE-CZ-NH2	5.24	122.92	120.30
154	WG	105	ARG	NE-CZ-NH2	5.23	122.92	120.30
148	9H	350	TYR	CB-CG-CD2	-5.23	117.86	121.00
109	6K	267	ARG	NE-CZ-NH2	5.23	122.91	120.30
153	DG	200	MET	CB-CG-SD	5.23	128.08	112.40
110	6T	194	LYS	N-CA-CB	-5.22	101.20	110.60
113	6c	1374	ARG	NE-CZ-NH2	5.22	122.91	120.30
134	9e	1204	ARG	CA-CB-CG	5.22	124.89	113.40
101	5l	540	ASP	CB-CG-OD1	5.22	123.00	118.30
153	WT	251	ARG	NE-CZ-NH2	5.21	122.91	120.30
87	5J	284	ARG	NE-CZ-NH2	5.21	122.91	120.30
135	7f	1042	ASP	CB-CG-OD1	5.21	122.99	118.30
135	8f	3908	ARG	CA-CB-CG	5.21	124.86	113.40
15	0y	264	LEU	CA-CB-CG	5.21	127.28	115.30
87	5D	287	ARG	NE-CZ-NH2	5.21	122.90	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
135	7b	4311	ASP	CB-CG-OD1	5.21	122.99	118.30
138	7g	124	LYS	CA-CB-CG	5.21	124.86	113.40
135	7f	749	LEU	CA-CB-CG	5.21	127.27	115.30
75	8p	85	LEU	CA-CB-CG	5.21	127.27	115.30
153	IR	318	ARG	NE-CZ-NH2	5.21	122.90	120.30
138	7g	330	LEU	CA-CB-CG	5.21	127.27	115.30
134	7a	2687	ASP	CB-CG-OD1	5.20	122.98	118.30
17	1D	135	ASP	CB-CG-OD1	5.20	122.98	118.30
99	5i	1550	TRP	CA-CB-CG	5.20	123.58	113.70
154	IG	230	LEU	CB-CG-CD2	-5.19	102.17	111.00
153	CS	209	ASP	CB-CG-OD1	5.19	122.97	118.30
87	5F	255	ASP	CB-CG-OD1	5.19	122.97	118.30
153	CA	377	MET	CB-CG-SD	-5.19	96.84	112.40
113	6c	2227	CYS	C-N-CA	5.18	134.66	121.70
34	1g	582	ASP	CB-CG-OD1	5.18	122.96	118.30
100	5j	266	ARG	CD-NE-CZ	5.18	130.86	123.60
126	6s	111	ASP	CB-CG-OD1	5.18	122.96	118.30
110	7B	107	PRO	CA-N-CD	-5.18	104.25	111.50
153	YM	306	ARG	NE-CZ-NH2	5.18	122.89	120.30
154	CT	425	LEU	CB-CG-CD2	5.18	119.81	111.00
153	GR	391	ARG	NE-CZ-NH2	5.18	122.89	120.30
153	JD	320	ARG	NE-CZ-NH2	5.18	122.89	120.30
80	4t	675	ARG	NE-CZ-NH2	5.18	122.89	120.30
134	8e	2791	ASP	CB-CG-OD1	5.18	122.96	118.30
153	WH	318	ARG	CD-NE-CZ	5.17	130.84	123.60
153	CK	380	ARG	CA-CB-CG	5.17	124.78	113.40
56	2h	303	ALA	C-N-CA	5.17	134.62	121.70
153	CW	380	ARG	CA-CB-CG	5.17	124.77	113.40
113	6c	1000	LEU	CA-CB-CG	5.17	127.18	115.30
61	2v	248	ARG	CB-CG-CD	-5.16	98.17	111.60
111	6a	3740	SER	C-N-CA	5.16	134.59	121.70
153	FZ	330	MET	CG-SD-CE	-5.16	91.95	100.20
65	3K	311	ARG	NE-CZ-NH2	5.16	122.88	120.30
139	7h	364	LEU	CA-CB-CG	5.16	127.16	115.30
56	2h	180	ARG	CA-CB-CG	5.15	124.74	113.40
110	6T	32	ASP	CB-CG-OD2	5.15	122.94	118.30
153	FX	324	LYS	CD-CE-NZ	-5.15	99.85	111.70
73	3o	39	PRO	CA-N-CD	-5.15	104.29	111.50
82	4w	638	ARG	NE-CZ-NH2	5.15	122.88	120.30
118	6i	272	ASP	CB-CG-OD2	5.15	122.94	118.30
1	0D	341	ARG	NE-CZ-NH2	5.15	122.87	120.30
138	9g	215	LEU	CA-CB-CG	5.15	127.14	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	ON	422	ARG	NE-CZ-NH2	5.15	122.87	120.30
110	6S	32	ASP	CB-CG-OD2	5.14	122.93	118.30
137	7d	23	LEU	CB-CG-CD2	-5.14	102.26	111.00
153	BC	377	MET	CG-SD-CE	-5.14	91.97	100.20
32	1e	186	ARG	NE-CZ-NH2	5.14	122.87	120.30
71	3j	241	ASP	CB-CG-OD1	5.14	122.92	118.30
73	3l	170	ARG	NE-CZ-NH2	5.14	122.87	120.30
87	5I	255	ASP	CB-CG-OD1	5.13	122.92	118.30
154	HA	424	ASP	CB-CG-OD1	5.13	122.92	118.30
153	UU	200	MET	CB-CG-SD	5.13	127.80	112.40
154	VC	121	ARG	CD-NE-CZ	5.13	130.78	123.60
99	5h	624	LEU	CA-CB-CG	5.13	127.10	115.30
153	TW	200	MET	CB-CG-SD	5.13	127.78	112.40
154	HE	215	ARG	CG-CD-NE	-5.12	101.04	111.80
153	FZ	225	LEU	CB-CG-CD2	5.12	119.71	111.00
154	HA	367	ASP	CB-CG-OD1	5.12	122.91	118.30
33	1f	411	GLU	CA-CB-CG	5.12	124.67	113.40
44	1r	1412	ARG	NE-CZ-NH2	5.12	122.86	120.30
86	5A	291	ARG	NE-CZ-NH2	5.12	122.86	120.30
44	1r	1410	ARG	NE-CZ-NH2	5.12	122.86	120.30
135	7f	3986	LEU	CA-CB-CG	5.12	127.07	115.30
142	7s	479	LEU	CA-CB-CG	5.12	127.08	115.30
153	EH	340	TYR	CB-CG-CD2	-5.12	117.93	121.00
90	5N	106	ARG	NE-CZ-NH2	5.12	122.86	120.30
153	EB	187	LEU	CB-CG-CD1	5.12	119.70	111.00
153	PH	58	ARG	CB-CG-CD	-5.12	98.30	111.60
153	UI	200	MET	CB-CG-SD	5.12	127.75	112.40
154	YG	398	MET	CA-CB-CG	5.11	121.99	113.30
8	0e	67	ARG	CB-CG-CD	-5.11	98.32	111.60
86	5A	311	ARG	NE-CZ-NH2	5.11	122.85	120.30
130	7P	186	ARG	NE-CZ-NH2	5.10	122.85	120.30
153	PT	150	LEU	CA-CB-CG	5.10	127.03	115.30
142	9a	252	GLN	CA-CB-CG	5.10	124.61	113.40
52	2R	330	ARG	NE-CZ-NH2	5.10	122.85	120.30
87	5C	255	ASP	CB-CG-OD1	5.09	122.89	118.30
135	7b	4435	LEU	CA-CB-CG	5.09	127.00	115.30
134	9e	2791	ASP	CB-CG-OD1	5.09	122.88	118.30
113	6c	746	LEU	CB-CG-CD2	-5.09	102.35	111.00
115	6e	372	ARG	CB-CG-CD	-5.09	98.37	111.60
134	7e	545	LEU	CA-CB-CG	5.09	127.00	115.30
153	UI	267	MET	CB-CG-SD	-5.09	97.14	112.40
99	5h	1163	ARG	NE-CZ-NH2	5.09	122.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
139	8h	430	MET	CA-CB-CG	5.09	121.95	113.30
65	3K	21	ARG	NE-CZ-NH2	5.08	122.84	120.30
138	9g	266	ASP	N-CA-C	-5.08	97.28	111.00
154	UJ	182	VAL	CA-CB-CG1	5.08	118.53	110.90
153	PH	150	LEU	CA-CB-CG	5.08	126.99	115.30
153	CS	200	MET	CA-CB-CG	-5.08	104.67	113.30
153	QR	324	LYS	CB-CG-CD	-5.08	98.40	111.60
56	2h	65	TRP	CA-CB-CG	5.08	123.35	113.70
112	6b	437	ASP	CB-CG-OD1	5.08	122.87	118.30
133	8C	173	LEU	CA-CB-CG	5.08	126.98	115.30
154	XI	398	MET	CA-CB-CG	5.08	121.93	113.30
100	5k	1671	MET	CA-CB-CG	5.08	121.93	113.30
135	8f	2980	ASP	CB-CG-OD1	5.08	122.87	118.30
139	8h	430	MET	CB-CG-SD	5.08	127.63	112.40
135	8f	1660	ASP	CB-CG-OD1	5.07	122.86	118.30
100	5k	3545	LEU	CA-CB-CG	5.07	126.96	115.30
133	7W	173	LEU	CA-CB-CG	5.07	126.96	115.30
134	7e	4351	ASP	CB-CG-OD1	5.07	122.86	118.30
135	7f	3083	ASP	CB-CG-OD1	5.07	122.86	118.30
141	8r	107	LEU	CA-CB-CG	5.07	126.96	115.30
153	RB	225	LEU	CA-CB-CG	5.07	126.96	115.30
153	FX	395	LEU	CA-CB-CG	5.07	126.96	115.30
75	8o	30	LEU	CA-CB-CG	5.07	126.95	115.30
153	QP	225	LEU	CA-CB-CG	5.07	126.95	115.30
135	7f	4290	ASP	C-N-CA	5.06	134.35	121.70
153	UU	267	MET	CB-CG-SD	-5.06	97.22	112.40
133	7Z	173	LEU	CA-CB-CG	5.06	126.93	115.30
143	9b	262	ARG	CA-CB-CG	5.05	124.51	113.40
136	7c	239	LEU	CA-CB-CG	5.05	126.91	115.30
154	JT	84	ARG	NE-CZ-NH2	5.05	122.82	120.30
5	0R	85	ARG	CG-CD-NE	-5.04	101.22	111.80
154	SE	121	ARG	CD-NE-CZ	5.04	130.65	123.60
138	9g	18	MET	CA-CB-CG	5.04	121.86	113.30
76	4T	332	ASP	CB-CG-OD1	5.04	122.83	118.30
109	6I	190	ASP	CB-CG-OD1	5.04	122.83	118.30
154	IU	251	ASP	CB-CG-OD1	5.04	122.83	118.30
153	RD	324	LYS	CB-CG-CD	-5.03	98.52	111.60
57	2l	315	ARG	NE-CZ-NH2	5.03	122.82	120.30
45	1t	1735	ASP	CB-CG-OD1	5.03	122.83	118.30
153	QF	324	LYS	CB-CG-CD	-5.03	98.52	111.60
153	VP	187	LEU	CB-CG-CD2	-5.03	102.45	111.00
80	4s	654	LEU	CA-CB-CG	5.03	126.87	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	XQ	156	ARG	NE-CZ-NH2	5.03	122.81	120.30
56	2f	73	GLU	N-CA-CB	5.03	119.65	110.60
153	VP	251	ARG	NE-CZ-NH2	5.03	122.81	120.30
154	XU	398	MET	CA-CB-CG	5.03	121.84	113.30
15	0x	119	ARG	CA-CB-CG	5.02	124.44	113.40
76	4Q	332	ASP	CB-CG-OD1	5.02	122.82	118.30
153	IV	67	ASP	CB-CG-OD1	5.02	122.82	118.30
154	TC	227	LEU	CA-CB-CG	5.02	126.84	115.30
57	2k	254	ARG	CA-CB-CG	5.02	124.44	113.40
63	3A	249	LEU	CA-CB-CG	5.01	126.84	115.30
122	6o	239	MET	CA-CB-CG	-5.01	104.78	113.30
154	II	251	ASP	CB-CG-OD1	5.01	122.81	118.30
153	MK	320	ARG	NE-CZ-NH2	5.01	122.81	120.30
54	2Y	259	ARG	NE-CZ-NH2	5.01	122.81	120.30
153	PT	58	ARG	CB-CG-CD	-5.01	98.58	111.60
5	0Q	156	ASP	CB-CG-OD1	5.01	122.81	118.30
154	GO	172	TYR	N-CA-CB	-5.00	101.59	110.60
153	KY	299	MET	CG-SD-CE	-5.00	92.19	100.20
34	1g	307	ARG	NE-CZ-NH2	5.00	122.80	120.30
58	2n	40	GLU	N-CA-CB	5.00	119.60	110.60
154	IO	224	TYR	CB-CG-CD2	-5.00	118.00	121.00
153	PX	200	MET	CB-CG-SD	5.00	127.41	112.40
154	SS	221	ARG	NE-CZ-NH2	5.00	122.80	120.30

There are no chirality outliers.

All (361) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0C	393	ARG	Sidechain
5	0Q	119	ARG	Sidechain
5	0Q	297	ARG	Sidechain
5	0Q	299	ARG	Sidechain
5	0Q	301	ARG	Sidechain
5	0Q	306	ARG	Sidechain
5	0Q	307	ARG	Sidechain
5	0Q	344	ARG	Sidechain
5	0Q	355	ARG	Sidechain
5	0T	119	ARG	Sidechain
7	0Z	133	ARG	Sidechain
8	0c	101	ARG	Sidechain
8	0c	144	ARG	Sidechain
8	0c	147	ARG	Sidechain

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Mol	Chain	Res	Type	Group
11	0r	433	ARG	Sidechain
11	0s	118	ARG	Sidechain
14	0w	323	ARG	Sidechain
15	0x	58	ARG	Sidechain
30	1c	771	ARG	Sidechain
31	1d	1136	ARG	Sidechain
40	1m	831	ARG	Sidechain
42	1o	259	ARG	Sidechain
44	1r	77	PHE	Peptide
45	1t	1690	ARG	Sidechain
45	1t	1720	ARG	Sidechain
45	1t	176	PHE	Peptide
45	1t	313	ALA	Peptide
45	1t	695	GLY	Peptide
47	2D	108	ARG	Sidechain
50	2M	95	ARG	Sidechain
50	2N	95	ARG	Sidechain
50	2O	95	ARG	Sidechain
55	2a	254	THR	Peptide
55	2c	254	THR	Peptide
56	2e	161	ARG	Peptide
56	2e	180	ARG	Peptide
56	2e	230	ARG	Sidechain
56	2e	495	ARG	Sidechain
57	2i	238	ARG	Sidechain
57	2k	315	ARG	Sidechain
59	2q	173	TYR	Sidechain
59	2r	69	VAL	Peptide
59	2s	71	PRO	Peptide
61	2y	183	LYS	Peptide
64	3E	68	ARG	Sidechain
64	3G	68	ARG	Sidechain
64	3I	68	ARG	Sidechain
65	3J	242	TYR	Sidechain
65	3J	245	ARG	Sidechain
65	3K	152	ARG	Sidechain
65	3K	19	ARG	Sidechain
69	3d	108	LEU	Peptide
69	3e	398	ARG	Sidechain
69	3f	785	PRO	Peptide
69	3g	216	TRP	Peptide
70	3h	309	SER	Peptide

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Mol	Chain	Res	Type	Group
73	3l	267	HIS	Peptide
73	3m	40	ASP	Peptide
73	3o	267	HIS	Peptide
73	3o	287	ASN	Peptide
73	3o	300	PHE	Peptide
73	3p	184	ARG	Peptide
73	3p	266	VAL	Peptide
73	3p	287	ASN	Peptide
74	3q	42	VAL	Peptide
74	3r	202	THR	Peptide
74	3s	42	VAL	Peptide
74	3t	211	GLU	Peptide
76	4P	505	TYR	Sidechain
75	4m	66	TYR	Sidechain
79	4q	492	GLN	Peptide
79	4r	389	GLU	Peptide
84	4y	509	VAL	Peptide
84	4y	613	LYS	Peptide
86	5A	229	ARG	Sidechain
86	5A	230	ARG	Sidechain
86	5B	229	ARG	Sidechain
86	5B	230	ARG	Sidechain
86	5B	28	ARG	Sidechain
88	5W	262	ARG	Sidechain
88	5W	324	ARG	Sidechain
88	5X	262	ARG	Sidechain
88	5X	324	ARG	Sidechain
88	5X	327	ARG	Sidechain
88	5X	442	ARG	Sidechain
91	5Y	129	ARG	Sidechain
91	5Z	129	ARG	Sidechain
92	5a	292	ARG	Peptide
95	5d	1088	ARG	Sidechain
96	5e	113	TYR	Sidechain
99	5i	1733	VAL	Peptide
99	5i	1836	ARG	Peptide
99	5i	1933	GLY	Peptide
99	5i	2141	PRO	Peptide
99	5i	2564	HIS	Peptide
99	5i	4278	HIS	Peptide
99	5i	4356	GLN	Peptide
99	5i	4417	ALA	Peptide

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Mol	Chain	Res	Type	Group
100	5k	1502	LEU	Peptide
100	5k	2216	ASP	Peptide
100	5k	3545	LEU	Peptide
100	5k	4163	PHE	Peptide
102	5m	327	GLN	Peptide
102	5m	491	PRO	Peptide
103	5n	664	HIS	Peptide
105	5p	95	TRP	Peptide
106	5q	80	ARG	Sidechain
75	5t	10	LYS	Peptide
75	5v	12	ALA	Peptide
75	5v	61	ARG	Sidechain
75	5v	65	SER	Peptide
75	5v	87	PHE	Peptide
108	5y	88	ASP	Peptide
109	6C	155	ARG	Sidechain
109	6F	16	ARG	Sidechain
109	6F	210	ARG	Sidechain
109	6F	300	ARG	Sidechain
109	6G	210	ARG	Sidechain
109	6G	26	ARG	Sidechain
109	6G	34	ARG	Sidechain
109	6J	210	ARG	Sidechain
109	6J	24	ARG	Sidechain
109	6M	217	ARG	Sidechain
109	6N	155	ARG	Sidechain
109	6N	217	ARG	Sidechain
109	6O	121	ARG	Sidechain
109	6P	121	ARG	Sidechain
110	6Y	177	ARG	Sidechain
111	6a	1047	LEU	Peptide
111	6a	1052	ARG	Sidechain
111	6a	1054	ARG	Sidechain
111	6a	1073	ASN	Peptide
111	6a	934	THR	Peptide
111	6a	936	PHE	Peptide
111	6a	939	ASP	Peptide
112	6b	1214	TYR	Sidechain
112	6b	1290	ARG	Sidechain
112	6b	2430	PHE	Peptide
112	6b	3036	TYR	Sidechain
112	6b	3088	PRO	Peptide

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Mol	Chain	Res	Type	Group
112	6b	3124	TYR	Sidechain
112	6b	3180	GLU	Peptide
112	6b	3247	ARG	Sidechain
112	6b	3645	HIS	Peptide
112	6b	3742	GLU	Peptide
112	6b	3889	TYR	Peptide
113	6c	1989	ASN	Peptide
113	6c	2159	MET	Peptide
113	6c	2190	PRO	Peptide
114	6d	1097	CYS	Peptide
114	6d	2249	GLY	Peptide
114	6d	471	TYR	Peptide
115	6e	1971	TYR	Peptide
115	6e	2855	THR	Peptide
125	6r	372	MET	Peptide
128	6u	103	ARG	Mainchain
110	7E	234	ARG	Sidechain
134	7a	2811	GLU	Peptide
134	7a	4553	PRO	Peptide
135	7b	1322	PRO	Peptide
135	7b	1443	THR	Peptide
135	7b	1446	LYS	Peptide
136	7c	117	VAL	Peptide
137	7d	18	ARG	Sidechain
137	7d	66	ARG	Sidechain
137	7d	76	ARG	Sidechain
134	7e	2811	GLU	Peptide
135	7f	1322	PRO	Peptide
135	7f	1443	THR	Peptide
138	7g	46	ASP	Peptide
138	7g	90	GLU	Peptide
139	7h	584	THR	Peptide
75	7k	10	LYS	Peptide
75	7n	10	LYS	Peptide
75	7o	53	PRO	Peptide
141	7r	29	VAL	Peptide
144	8F	188	ARG	Sidechain
144	8I	188	ARG	Sidechain
136	8c	117	VAL	Peptide
134	8e	1687	ARG	Sidechain
134	8e	263	ARG	Sidechain
134	8e	2811	GLU	Peptide

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Mol	Chain	Res	Type	Group
135	8f	1443	THR	Peptide
138	8g	46	ASP	Peptide
139	8h	392	TRP	Peptide
139	8h	538	GLY	Peptide
139	8h	584	THR	Peptide
75	8k	10	LYS	Peptide
75	8o	53	PRO	Peptide
141	8r	29	VAL	Peptide
142	8s	508	GLU	Mainchain
143	8t	165	ARG	Peptide
143	8t	166	ASN	Peptide
146	9B	167	ARG	Peptide
148	9H	92	ARG	Sidechain
149	9K	14	ARG	Sidechain
149	9K	22	ARG	Sidechain
149	9L	14	ARG	Sidechain
150	9O	74	ARG	Sidechain
136	9c	117	VAL	Peptide
137	9d	76	ARG	Sidechain
134	9e	2802	TYR	Peptide
134	9e	2811	GLU	Peptide
135	9f	1443	THR	Peptide
135	9f	1446	LYS	Peptide
139	9h	584	THR	Peptide
75	9k	10	LYS	Peptide
106	9l	37	ILE	Peptide
107	9m	31	ARG	Sidechain
75	9n	10	LYS	Peptide
75	9o	53	PRO	Peptide
141	9r	29	VAL	Peptide
143	9t	165	ARG	Peptide
154	AZ	214	ARG	Sidechain
153	Ac	251	ARG	Sidechain
153	Ac	262	ARG	Sidechain
153	Ae	183	TYR	Sidechain
154	Al	161	TYR	Sidechain
153	Ao	251	ARG	Sidechain
153	Ao	262	ARG	Sidechain
154	BJ	402	ARG	Sidechain
153	BM	379	ARG	Sidechain
154	BV	402	ARG	Sidechain
153	BY	379	ARG	Sidechain

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Mol	Chain	Res	Type	Group
154	CI	402	ARG	Sidechain
153	CK	391	ARG	Sidechain
153	CO	379	ARG	Sidechain
154	CT	221	ARG	Sidechain
153	CU	282	ARG	Sidechain
153	CW	391	ARG	Sidechain
153	DA	379	ARG	Sidechain
154	DF	221	ARG	Sidechain
153	DG	282	ARG	Sidechain
153	DI	391	ARG	Sidechain
153	DX	58	ARG	Sidechain
153	EJ	58	ARG	Sidechain
154	EQ	221	ARG	Sidechain
154	EW	210	TYR	Sidechain
153	EX	318	ARG	Sidechain
153	EZ	309	ARG	Sidechain
154	FA	221	ARG	Sidechain
154	FC	221	ARG	Sidechain
153	FJ	318	ARG	Sidechain
153	FL	309	ARG	Sidechain
154	FM	221	ARG	Sidechain
154	FO	221	ARG	Sidechain
154	GC	339	ARG	Sidechain
154	HE	185	TYR	Sidechain
153	HJ	213	ARG	Sidechain
153	HJ	380	ARG	Sidechain
153	HP	320	ARG	Sidechain
153	HV	213	ARG	Sidechain
153	HV	380	ARG	Sidechain
154	II	214	ARG	Sidechain
154	II	221	ARG	Sidechain
154	II	422	ARG	Sidechain
153	IL	390	ARG	Sidechain
153	IL	391	ARG	Sidechain
154	IM	264	ARG	Sidechain
153	IN	320	ARG	Sidechain
154	IU	214	ARG	Sidechain
154	IU	221	ARG	Sidechain
154	IU	422	ARG	Sidechain
153	IX	390	ARG	Sidechain
153	IX	391	ARG	Sidechain
154	IY	210	TYR	Sidechain

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Mol	Chain	Res	Type	Group
154	IY	264	ARG	Sidechain
154	JC	339	ARG	Sidechain
153	JD	320	ARG	Sidechain
153	JQ	59	TYR	Sidechain
153	KO	213	ARG	Sidechain
153	KO	320	ARG	Sidechain
153	LM	320	ARG	Sidechain
153	LO	282	ARG	Sidechain
153	MA	282	ARG	Sidechain
153	MM	282	ARG	Sidechain
154	MV	156	ARG	Sidechain
154	MV	402	ARG	Sidechain
153	NA	262	ARG	Sidechain
154	NH	156	ARG	Sidechain
154	NH	402	ARG	Sidechain
153	NM	262	ARG	Sidechain
154	NT	156	ARG	Sidechain
154	NT	402	ARG	Sidechain
153	NU	276	ARG	Sidechain
153	OC	390	ARG	Sidechain
153	OC	391	ARG	Sidechain
154	OD	185	TYR	Sidechain
153	OO	390	ARG	Sidechain
153	PA	390	ARG	Sidechain
154	PI	221	ARG	Sidechain
154	QG	221	ARG	Sidechain
154	QG	308	ARG	Sidechain
153	QJ	391	ARG	Sidechain
153	QL	241	ARG	Sidechain
154	QM	221	ARG	Sidechain
154	QQ	121	ARG	Sidechain
154	QQ	221	ARG	Sidechain
154	QS	221	ARG	Sidechain
154	QS	308	ARG	Sidechain
153	QV	391	ARG	Sidechain
153	QX	241	ARG	Sidechain
154	QY	221	ARG	Sidechain
154	RC	121	ARG	Sidechain
154	RC	221	ARG	Sidechain
154	RE	221	ARG	Sidechain
154	RE	308	ARG	Sidechain
153	RH	391	ARG	Sidechain

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Mol	Chain	Res	Type	Group
154	SM	214	ARG	Sidechain
153	SN	282	ARG	Sidechain
154	SS	404	PHE	Sidechain
153	ST	321	MET	Mainchain
154	SU	214	ARG	Sidechain
154	SU	215	ARG	Sidechain
154	SU	221	ARG	Sidechain
153	SZ	282	ARG	Sidechain
153	TF	162	ARG	Sidechain
154	TG	214	ARG	Sidechain
154	TG	215	ARG	Sidechain
154	TG	221	ARG	Sidechain
153	TH	276	ARG	Sidechain
153	TL	282	ARG	Sidechain
153	TY	318	ARG	Sidechain
153	UX	276	ARG	Sidechain
154	VC	210	TYR	Sidechain
153	VD	213	ARG	Sidechain
153	VF	276	ARG	Sidechain
153	VH	58	ARG	Sidechain
153	VJ	276	ARG	Sidechain
153	VP	213	ARG	Sidechain
153	VP	58	ARG	Sidechain
153	VR	276	ARG	Sidechain
153	VT	58	ARG	Sidechain
154	WC	339	ARG	Sidechain
153	WF	57	GLY	Peptide
154	WG	272	TYR	Sidechain
154	WK	221	ARG	Sidechain
154	WO	339	ARG	Sidechain
154	WW	221	ARG	Sidechain
154	XA	339	ARG	Sidechain
154	XG	79	ARG	Sidechain
153	XJ	320	ARG	Sidechain
154	XK	221	ARG	Sidechain
154	XS	79	ARG	Sidechain
154	XS	84	ARG	Sidechain
153	XV	320	ARG	Sidechain
154	XW	221	ARG	Sidechain
154	YE	79	ARG	Sidechain
154	YE	84	ARG	Sidechain
153	YH	320	ARG	Sidechain

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Mol	Chain	Res	Type	Group
153	YM	310	TYR	Sidechain
154	YN	221	ARG	Sidechain
153	YO	318	ARG	Sidechain
154	YV	308	ARG	Sidechain
154	YZ	221	ARG	Sidechain
153	ZA	318	ARG	Sidechain
153	ZE	276	ARG	Sidechain
154	ZL	221	ARG	Sidechain
153	ZQ	251	ARG	Sidechain
153	ZQ	262	ARG	Sidechain
153	ZS	391	ARG	Sidechain

5.2 Too-close contacts [i](#)

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

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

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 oligosaccharides in this entry.

5.6 Ligand geometry

Of 1125 ligands modelled in this entry, 412 are monoatomic - leaving 713 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
156	ATP	7e	4704	-	28,33,33	0.75	0	34,52,52	0.69	1 (2%)
156	ATP	7e	4702	-	28,33,33	0.71	0	34,52,52	0.62	1 (2%)
160	GTP	ES	501	159	29,34,34	1.20	1 (3%)	35,54,54	1.30	5 (14%)
158	GDP	ZC	501	-	25,30,30	0.84	0	30,47,47	0.81	0
158	GDP	VP	501	-	25,30,30	0.84	0	30,47,47	0.85	1 (3%)
160	GTP	UY	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	Ad	602	159	29,34,34	1.19	2 (6%)	35,54,54	1.35	5 (14%)
157	ADP	8f	4701	-	24,29,29	0.82	0	29,45,45	1.33	4 (13%)
158	GDP	ZU	501	-	25,30,30	0.85	0	30,47,47	0.85	2 (6%)
160	GTP	XQ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	UK	501	-	25,30,30	0.86	0	30,47,47	0.87	2 (6%)
157	ADP	7e	4701	-	24,29,29	0.89	0	29,45,45	1.19	2 (6%)
158	GDP	Ac	501	-	25,30,30	0.83	0	30,47,47	0.83	1 (3%)
158	GDP	MO	501	-	25,30,30	0.83	0	30,47,47	0.82	1 (3%)
160	GTP	CJ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	EC	501	159	29,34,34	1.21	1 (3%)	35,54,54	1.35	4 (11%)
158	GDP	IH	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.12	3 (10%)
158	GDP	ER	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	3 (10%)
160	GTP	Ap	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	HQ	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	1 (2%)
160	GTP	DL	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	SQ	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	KW	501	-	25,30,30	0.82	0	30,47,47	0.82	0
160	GTP	UN	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	BV	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	CQ	501	-	25,30,30	0.84	0	30,47,47	0.83	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	OS	501	-	25,30,30	0.84	0	30,47,47	0.84	0
160	GTP	KL	602	159	29,34,34	1.16	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	XN	501	-	25,30,30	0.85	0	30,47,47	0.88	2 (6%)
160	GTP	TQ	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.91	2 (5%)
160	GTP	AN	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	LG	501	-	25,30,30	0.86	0	30,47,47	0.86	0
158	GDP	Am	501	-	25,30,30	0.84	0	30,47,47	0.84	1 (3%)
158	GDP	KA	501	-	25,30,30	0.85	0	30,47,47	0.82	0
160	GTP	NZ	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	QK	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	BP	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.91	2 (5%)
160	GTP	HC	602	159	29,34,34	1.19	2 (6%)	35,54,54	1.38	4 (11%)
158	GDP	ZW	501	-	25,30,30	0.82	0	30,47,47	0.91	2 (6%)
158	GDP	NI	501	-	25,30,30	0.84	0	30,47,47	0.84	1 (3%)
160	GTP	XE	501	159	29,34,34	1.21	2 (6%)	35,54,54	1.37	5 (14%)
160	GTP	UJ	501	159	29,34,34	1.40	6 (20%)	35,54,54	1.24	5 (14%)
160	GTP	RG	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
157	ADP	9f	4702	-	24,29,29	0.83	0	29,45,45	1.35	4 (13%)
158	GDP	NS	501	-	25,30,30	0.84	0	30,47,47	0.85	2 (6%)
156	ATP	9e	5004	-	28,33,33	0.74	1 (3%)	34,52,52	0.85	2 (5%)
158	GDP	TS	501	-	25,30,30	0.85	0	30,47,47	0.90	1 (3%)
158	GDP	XT	501	-	25,30,30	0.86	0	30,47,47	0.79	0
160	GTP	AX	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	AT	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.88	1 (2%)
160	GTP	PE	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	EQ	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	XB	501	-	25,30,30	0.83	0	30,47,47	0.80	0
158	GDP	PJ	501	-	25,30,30	0.84	0	30,47,47	0.80	0
157	ADP	8e	4701	-	24,29,29	0.89	0	29,45,45	1.18	2 (6%)
158	GDP	HD	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.21	3 (10%)
160	GTP	UP	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.90	2 (5%)
156	ATP	7a	4702	-	28,33,33	0.72	0	34,52,52	0.84	2 (5%)
160	GTP	ND	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.85	2 (5%)
158	GDP	NY	501	-	25,30,30	0.80	0	30,47,47	0.90	2 (6%)
158	GDP	NO	501	-	25,30,30	0.84	0	30,47,47	0.81	0
160	GTP	FE	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.82	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	NC	501	-	25,30,30	0.85	0	30,47,47	0.82	0
160	GTP	BJ	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	QN	501	-	25,30,30	0.83	0	30,47,47	0.82	0
158	GDP	Ak	501	-	25,30,30	0.81	0	30,47,47	0.90	3 (10%)
160	GTP	WK	602	159	29,34,34	1.09	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	TH	501	-	25,30,30	0.87	0	30,47,47	0.84	0
158	GDP	EV	501	-	25,30,30	0.86	0	30,47,47	0.83	1 (3%)
160	GTP	LB	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	CI	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	HF	501	-	25,30,30	0.83	0	30,47,47	0.88	2 (6%)
158	GDP	PA	501	-	25,30,30	0.84	0	30,47,47	0.88	1 (3%)
160	GTP	JE	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	FS	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.87	2 (5%)
158	GDP	Ai	501	-	25,30,30	0.82	0	30,47,47	0.90	2 (6%)
160	GTP	GG	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.87	2 (5%)
158	GDP	PH	501	-	25,30,30	0.86	0	30,47,47	0.79	0
158	GDP	LY	501	-	25,30,30	0.82	0	30,47,47	0.84	1 (3%)
158	GDP	WF	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.17	3 (10%)
156	ATP	8e	4702	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
160	GTP	NR	502	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	SM	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	SK	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.93	2 (5%)
158	GDP	CW	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	3 (10%)
160	GTP	GO	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	TK	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	TC	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	FN	501	-	25,30,30	0.84	0	30,47,47	0.83	0
158	GDP	WR	501	-	25,30,30	0.87	0	30,47,47	0.86	0
160	GTP	KN	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	EJ	501	-	25,30,30	0.82	0	30,47,47	0.84	0
160	GTP	OR	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	1 (2%)
160	GTP	RK	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	2 (5%)
160	GTP	DM	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.84	1 (2%)
156	ATP	9f	4703	-	28,33,33	0.74	0	34,52,52	0.61	1 (2%)
160	GTP	YG	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	AQ	501	-	25,30,30	0.83	0	30,47,47	0.85	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	SB	501	-	25,30,30	0.82	0	30,47,47	0.89	2 (6%)
158	GDP	RF	501	-	25,30,30	0.84	0	30,47,47	0.83	0
160	GTP	TT	602	159	29,34,34	1.15	2 (6%)	35,54,54	0.85	1 (2%)
156	ATP	7a	4704	-	28,33,33	0.73	0	34,52,52	0.68	1 (2%)
160	GTP	KF	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	RB	501	-	25,30,30	0.84	0	30,47,47	0.82	1 (3%)
158	GDP	EH	501	-	25,30,30	0.80	0	30,47,47	0.81	1 (3%)
160	GTP	RC	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	GL	501	-	25,30,30	0.83	0	30,47,47	0.87	1 (3%)
158	GDP	HB	501	-	25,30,30	1.03	3 (12%)	30,47,47	0.78	0
157	ADP	7b	4704	-	24,29,29	0.85	0	29,45,45	1.38	4 (13%)
160	GTP	PI	602	159	29,34,34	1.15	2 (6%)	35,54,54	0.82	1 (2%)
156	ATP	8f	4703	-	28,33,33	0.98	1 (3%)	34,52,52	0.63	1 (2%)
160	GTP	MZ	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	Ab	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	VW	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	QH	501	-	25,30,30	0.86	0	30,47,47	0.83	1 (3%)
160	GTP	MP	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	HV	501	-	25,30,30	0.80	0	30,47,47	0.89	1 (3%)
158	GDP	WD	501	-	25,30,30	0.98	2 (8%)	30,47,47	1.14	3 (10%)
158	GDP	EL	501	-	25,30,30	0.84	0	30,47,47	0.81	1 (3%)
160	GTP	WE	602	159	29,34,34	1.24	1 (3%)	35,54,54	1.31	5 (14%)
158	GDP	LC	501	-	25,30,30	0.86	0	30,47,47	0.88	1 (3%)
160	GTP	RY	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.93	2 (5%)
158	GDP	EZ	602	-	25,30,30	0.86	0	30,47,47	0.85	1 (3%)
158	GDP	ZE	501	-	25,30,30	0.86	0	30,47,47	0.82	1 (3%)
158	GDP	DE	501	-	25,30,30	0.84	0	30,47,47	0.81	1 (3%)
160	GTP	FQ	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	RZ	501	-	25,30,30	0.80	0	30,47,47	0.92	2 (6%)
158	GDP	AM	501	-	25,30,30	0.85	0	30,47,47	0.89	1 (3%)
156	ATP	8e	4704	-	28,33,33	0.77	1 (3%)	34,52,52	0.65	1 (2%)
160	GTP	OJ	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.91	1 (2%)
160	GTP	OB	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.89	2 (5%)
160	GTP	VC	501	159	29,34,34	1.36	6 (20%)	35,54,54	1.34	6 (17%)
158	GDP	BM	501	-	25,30,30	0.86	0	30,47,47	0.82	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	IV	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.16	3 (10%)
160	GTP	IM	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	PS	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	UD	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.91	2 (5%)
158	GDP	WN	501	-	25,30,30	0.84	0	30,47,47	0.86	0
160	GTP	LD	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	SW	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	IE	501	159	29,34,34	1.22	2 (6%)	35,54,54	1.39	5 (14%)
160	GTP	XM	602	159	29,34,34	0.99	3 (10%)	35,54,54	0.78	0
160	GTP	JP	602	159	29,34,34	1.22	2 (6%)	35,54,54	1.29	6 (17%)
158	GDP	BY	501	-	25,30,30	0.84	0	30,47,47	0.80	0
160	GTP	YZ	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	VK	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.82	1 (2%)
160	GTP	YV	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.89	2 (5%)
158	GDP	CY	501	-	25,30,30	0.86	0	30,47,47	0.83	0
158	GDP	CO	501	-	25,30,30	0.83	0	30,47,47	0.82	0
160	GTP	BD	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	UU	501	-	25,30,30	0.84	0	30,47,47	0.84	0
158	GDP	LW	501	-	25,30,30	0.82	0	30,47,47	0.79	0
156	ATP	7b	4702	-	28,33,33	0.72	0	34,52,52	0.61	1 (2%)
160	GTP	AL	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	JA	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	EF	501	-	25,30,30	0.82	0	30,47,47	0.79	0
160	GTP	WA	602	159	29,34,34	1.21	1 (3%)	35,54,54	1.35	5 (14%)
158	GDP	FV	501	-	25,30,30	1.02	2 (8%)	30,47,47	1.16	3 (10%)
158	GDP	YM	501	-	25,30,30	0.83	0	30,47,47	0.82	0
158	GDP	BS	501	-	25,30,30	0.83	0	30,47,47	0.84	1 (3%)
160	GTP	KT	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	VN	501	-	25,30,30	0.84	0	30,47,47	0.81	0
158	GDP	KK	501	-	25,30,30	0.81	0	30,47,47	0.85	1 (3%)
160	GTP	LN	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	XD	501	-	25,30,30	0.87	0	30,47,47	0.86	1 (3%)
160	GTP	MX	502	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	RU	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	YK	501	-	25,30,30	0.84	0	30,47,47	0.88	2 (6%)
158	GDP	IJ	501	-	25,30,30	0.85	0	30,47,47	0.84	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	DN	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.05	2 (6%)
158	GDP	SJ	501	-	25,30,30	0.81	0	30,47,47	0.91	3 (10%)
158	GDP	VB	501	-	25,30,30	0.82	0	30,47,47	0.83	1 (3%)
158	GDP	ET	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	3 (10%)
160	GTP	RO	602	159	29,34,34	1.10	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	YF	501	-	25,30,30	0.86	0	30,47,47	0.80	1 (3%)
160	GTP	BB	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	IF	501	-	25,30,30	0.98	2 (8%)	30,47,47	1.11	3 (10%)
160	GTP	JX	501	159	29,34,34	1.17	1 (3%)	35,54,54	1.32	5 (14%)
158	GDP	YY	501	-	25,30,30	0.82	0	30,47,47	0.83	0
160	GTP	VA	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	FT	501	-	25,30,30	0.86	0	30,47,47	0.82	1 (3%)
158	GDP	CS	501	-	25,30,30	0.97	2 (8%)	30,47,47	1.11	3 (10%)
160	GTP	IS	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	AO	501	-	25,30,30	0.98	2 (8%)	30,47,47	1.10	3 (10%)
160	GTP	DU	501	159	29,34,34	1.22	1 (3%)	35,54,54	1.32	5 (14%)
160	GTP	EK	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	LJ	501	159	29,34,34	1.16	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	PF	501	-	25,30,30	0.84	0	30,47,47	0.80	0
158	GDP	AC	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	3 (10%)
158	GDP	WZ	501	-	25,30,30	0.82	0	30,47,47	0.85	0
160	GTP	EE	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	DW	602	159	29,34,34	1.19	1 (3%)	35,54,54	1.33	5 (14%)
160	GTP	FC	501	159	29,34,34	1.09	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	KG	501	-	25,30,30	0.84	0	30,47,47	0.83	0
160	GTP	HY	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.91	2 (5%)
160	GTP	VM	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	2 (5%)
160	GTP	ON	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	QZ	501	-	25,30,30	0.85	0	30,47,47	0.79	0
160	GTP	PG	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	YX	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	KD	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	KU	501	-	25,30,30	0.85	0	30,47,47	0.84	0
160	GTP	MR	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	TG	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	FI	602	159	29,34,34	1.24	2 (6%)	35,54,54	1.34	5 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	OY	501	-	25,30,30	0.83	0	30,47,47	0.84	0
158	GDP	HL	501	-	25,30,30	0.99	2 (8%)	30,47,47	1.15	3 (10%)
158	GDP	PL	501	-	25,30,30	0.82	0	30,47,47	0.82	0
158	GDP	SN	501	-	25,30,30	0.83	0	30,47,47	0.91	3 (10%)
157	ADP	9e	5002	-	24,29,29	0.88	0	29,45,45	1.16	2 (6%)
160	GTP	HA	501	159	29,34,34	1.18	2 (6%)	35,54,54	1.42	4 (11%)
160	GTP	ZP	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	HN	501	-	25,30,30	1.02	3 (12%)	30,47,47	0.77	0
158	GDP	JD	501	-	25,30,30	0.86	0	30,47,47	0.81	0
158	GDP	RV	501	-	25,30,30	0.83	0	30,47,47	0.85	1 (3%)
160	GTP	AZ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	YT	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	MI	501	-	25,30,30	0.84	0	30,47,47	0.80	0
160	GTP	JV	501	159	29,34,34	1.21	2 (6%)	35,54,54	1.30	5 (14%)
158	GDP	JS	501	-	25,30,30	0.99	2 (8%)	30,47,47	1.11	3 (10%)
160	GTP	GU	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	IZ	501	-	25,30,30	0.85	0	30,47,47	0.86	0
158	GDP	HP	501	-	25,30,30	0.83	0	30,47,47	0.90	2 (6%)
158	GDP	VL	501	-	25,30,30	0.82	0	30,47,47	0.83	1 (3%)
160	GTP	XG	602	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	2 (5%)
158	GDP	TL	501	-	25,30,30	0.84	0	30,47,47	0.92	3 (10%)
158	GDP	GZ	501	-	25,30,30	1.01	2 (8%)	30,47,47	1.14	3 (10%)
160	GTP	VS	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.81	1 (2%)
160	GTP	IW	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	2 (5%)
158	GDP	KM	501	-	25,30,30	0.87	0	30,47,47	0.93	1 (3%)
158	GDP	DV	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	3 (10%)
158	GDP	BC	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.11	3 (10%)
158	GDP	TB	501	-	25,30,30	0.82	0	30,47,47	0.85	1 (3%)
160	GTP	TE	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.91	2 (5%)
158	GDP	QJ	501	-	25,30,30	0.87	0	30,47,47	0.87	1 (3%)
160	GTP	NH	502	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	ZM	501	-	25,30,30	0.81	0	30,47,47	0.91	3 (10%)
158	GDP	XF	501	-	25,30,30	0.99	2 (8%)	30,47,47	1.13	3 (10%)
158	GDP	QV	501	-	25,30,30	0.86	0	30,47,47	0.88	1 (3%)
158	GDP	LM	501	-	25,30,30	0.84	0	30,47,47	0.81	0
160	GTP	LH	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.88	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	IN	501	-	25,30,30	0.98	2 (8%)	30,47,47	1.11	3 (10%)
160	GTP	BX	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	2 (5%)
158	GDP	OC	501	-	25,30,30	0.82	0	30,47,47	0.86	1 (3%)
160	GTP	HE	602	159	29,34,34	1.21	2 (6%)	35,54,54	1.30	6 (17%)
156	ATP	7b	4701	-	28,33,33	0.72	0	34,52,52	0.61	1 (2%)
160	GTP	LT	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	VH	501	-	25,30,30	0.82	0	30,47,47	0.84	1 (3%)
158	GDP	AW	501	-	25,30,30	0.85	0	30,47,47	0.80	0
158	GDP	VV	501	-	25,30,30	0.84	0	30,47,47	0.84	0
160	GTP	AF	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	WG	501	159	29,34,34	1.27	4 (13%)	35,54,54	1.23	5 (14%)
158	GDP	ST	501	-	25,30,30	0.82	0	30,47,47	0.88	1 (3%)
160	GTP	PK	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	VG	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.82	1 (2%)
160	GTP	Al	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	Aa	501	-	25,30,30	0.83	0	30,47,47	0.86	1 (3%)
158	GDP	WH	501	-	25,30,30	0.87	0	30,47,47	0.83	0
158	GDP	UM	501	-	25,30,30	0.87	0	30,47,47	0.78	0
160	GTP	TM	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	2 (5%)
158	GDP	QL	501	-	25,30,30	0.85	0	30,47,47	0.82	1 (3%)
158	GDP	HJ	501	-	25,30,30	0.80	0	30,47,47	0.89	2 (6%)
160	GTP	EA	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	GS	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	KV	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	RD	501	-	25,30,30	0.88	0	30,47,47	0.83	2 (6%)
156	ATP	7b	4703	-	28,33,33	0.73	0	34,52,52	0.59	1 (2%)
160	GTP	GM	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	PT	501	-	25,30,30	0.86	0	30,47,47	0.78	0
160	GTP	CV	501	159	29,34,34	1.20	2 (6%)	35,54,54	1.35	5 (14%)
160	GTP	AR	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	GA	602	159	29,34,34	1.21	1 (3%)	35,54,54	1.30	5 (14%)
158	GDP	CC	501	-	25,30,30	0.87	0	30,47,47	0.84	0
160	GTP	HW	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	LQ	501	-	25,30,30	0.83	0	30,47,47	0.81	0
160	GTP	KP	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
156	ATP	7e	4703	-	28,33,33	0.73	0	34,52,52	0.89	2 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	GF	501	-	25,30,30	0.80	0	30,47,47	0.95	3 (10%)
158	GDP	JO	501	-	25,30,30	0.86	0	30,47,47	0.81	0
158	GDP	MW	501	-	25,30,30	0.84	0	30,47,47	0.83	0
160	GTP	GE	602	159	29,34,34	1.09	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	CZ	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	CB	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.89	2 (5%)
160	GTP	WO	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.82	1 (2%)
158	GDP	ME	501	-	25,30,30	0.83	0	30,47,47	0.82	1 (3%)
158	GDP	JI	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	3 (10%)
158	GDP	BG	501	-	25,30,30	0.83	0	30,47,47	0.84	1 (3%)
158	GDP	TF	501	-	25,30,30	0.82	0	30,47,47	0.87	1 (3%)
158	GDP	AE	501	-	25,30,30	0.83	0	30,47,47	0.83	0
160	GTP	NP	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	2 (5%)
158	GDP	GX	501	-	25,30,30	0.84	0	30,47,47	0.88	1 (3%)
158	GDP	MY	501	-	25,30,30	0.84	0	30,47,47	0.88	1 (3%)
158	GDP	IX	501	-	25,30,30	0.86	0	30,47,47	0.82	0
158	GDP	KS	501	-	25,30,30	0.83	0	30,47,47	0.84	2 (6%)
160	GTP	XS	501	159	29,34,34	1.21	3 (10%)	35,54,54	1.36	5 (14%)
158	GDP	OW	501	-	25,30,30	0.81	0	30,47,47	0.90	3 (10%)
158	GDP	FX	501	-	25,30,30	0.98	2 (8%)	30,47,47	1.10	3 (10%)
160	GTP	MB	502	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	US	501	-	25,30,30	0.81	0	30,47,47	0.83	1 (3%)
158	GDP	EX	501	-	25,30,30	0.85	0	30,47,47	0.85	1 (3%)
158	GDP	FF	501	-	25,30,30	0.85	0	30,47,47	0.81	1 (3%)
158	GDP	TN	501	-	25,30,30	0.84	0	30,47,47	0.84	1 (3%)
160	GTP	CT	602	159	29,34,34	1.19	2 (6%)	35,54,54	1.34	5 (14%)
160	GTP	QG	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	QP	501	-	25,30,30	0.85	0	30,47,47	0.80	0
158	GDP	XR	501	-	25,30,30	0.85	0	30,47,47	0.85	1 (3%)
160	GTP	SG	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	UX	501	-	25,30,30	0.85	0	30,47,47	0.85	0
160	GTP	DY	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	OX	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	ZS	501	-	25,30,30	1.14	2 (8%)	30,47,47	1.19	2 (6%)
160	GTP	FK	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.88	2 (5%)
160	GTP	GW	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.89	2 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
160	GTP	CD	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	ZZ	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	UO	501	-	25,30,30	0.84	0	30,47,47	0.85	0
160	GTP	II	501	159	29,34,34	1.22	5 (17%)	35,54,54	1.23	4 (11%)
160	GTP	NV	503	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	AS	501	-	25,30,30	1.14	2 (8%)	30,47,47	1.27	3 (10%)
156	ATP	7f	4703	-	28,33,33	0.72	0	34,52,52	0.62	1 (2%)
158	GDP	NQ	501	-	25,30,30	0.86	0	30,47,47	0.82	0
160	GTP	JJ	501	159	29,34,34	1.19	1 (3%)	35,54,54	1.30	5 (14%)
156	ATP	8e	4703	-	28,33,33	0.70	0	34,52,52	0.62	1 (2%)
160	GTP	XK	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.88	2 (5%)
160	GTP	XW	602	159	29,34,34	1.16	2 (6%)	35,54,54	0.89	2 (5%)
158	GDP	XZ	501	-	25,30,30	0.86	0	30,47,47	0.87	1 (3%)
160	GTP	NN	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	SH	501	-	25,30,30	0.84	0	30,47,47	0.85	1 (3%)
160	GTP	LX	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	UZ	501	-	25,30,30	0.81	0	30,47,47	0.83	0
158	GDP	DC	501	-	25,30,30	0.83	0	30,47,47	0.83	1 (3%)
160	GTP	YA	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	BI	501	-	25,30,30	0.85	0	30,47,47	0.85	1 (3%)
158	GDP	RR	501	-	25,30,30	0.82	0	30,47,47	0.90	2 (6%)
158	GDP	KI	501	-	25,30,30	0.83	0	30,47,47	0.83	0
160	GTP	JC	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	VJ	501	-	25,30,30	0.86	0	30,47,47	0.84	0
160	GTP	KZ	602	159	29,34,34	1.22	2 (6%)	35,54,54	1.33	5 (14%)
158	GDP	XX	501	-	25,30,30	0.83	0	30,47,47	0.82	0
160	GTP	KX	501	159	29,34,34	1.17	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	OI	501	-	25,30,30	0.82	0	30,47,47	0.87	1 (3%)
158	GDP	PN	501	-	25,30,30	0.85	0	30,47,47	0.84	1 (3%)
160	GTP	CR	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	HS	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	QT	501	-	25,30,30	0.85	0	30,47,47	0.84	1 (3%)
158	GDP	KY	501	-	25,30,30	0.87	0	30,47,47	0.89	0
160	GTP	BF	602	159	29,34,34	1.17	1 (3%)	35,54,54	1.38	5 (14%)
160	GTP	AH	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	UF	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	IP	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.15	3 (10%)
156	ATP	9f	4704	-	28,33,33	0.70	0	34,52,52	0.66	1 (2%)
158	GDP	BU	501	-	25,30,30	1.03	2 (8%)	30,47,47	1.17	3 (10%)
160	GTP	GI	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	FJ	501	-	25,30,30	0.84	0	30,47,47	0.85	1 (3%)
160	GTP	DD	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.82	1 (2%)
158	GDP	LU	501	-	25,30,30	0.85	0	30,47,47	0.88	1 (3%)
160	GTP	BT	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	Ao	501	-	25,30,30	0.83	0	30,47,47	0.83	1 (3%)
160	GTP	ZX	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	PV	501	-	25,30,30	0.85	0	30,47,47	0.81	0
160	GTP	VY	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	HI	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	HZ	501	-	25,30,30	1.01	3 (12%)	30,47,47	0.79	0
160	GTP	EW	501	159	29,34,34	1.20	3 (10%)	35,54,54	1.32	3 (8%)
160	GTP	DB	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.82	1 (2%)
158	GDP	IT	501	-	25,30,30	1.01	2 (8%)	30,47,47	1.12	3 (10%)
158	GDP	AK	501	-	25,30,30	0.85	0	30,47,47	0.80	0
158	GDP	RL	501	-	25,30,30	0.81	0	30,47,47	0.90	2 (6%)
158	GDP	KQ	501	-	25,30,30	0.84	0	30,47,47	0.87	0
158	GDP	MK	501	-	25,30,30	0.82	0	30,47,47	0.84	1 (3%)
160	GTP	NF	502	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	WX	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	3 (10%)
158	GDP	KE	501	-	25,30,30	0.84	0	30,47,47	0.79	0
158	GDP	YH	501	-	25,30,30	0.85	0	30,47,47	0.83	1 (3%)
160	GTP	BR	501	159	29,34,34	1.18	1 (3%)	35,54,54	1.38	5 (14%)
160	GTP	UT	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	HT	501	-	25,30,30	0.81	0	30,47,47	0.91	3 (10%)
160	GTP	AV	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	An	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	HR	501	-	25,30,30	0.83	0	30,47,47	0.89	2 (6%)
160	GTP	GK	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	KO	501	-	25,30,30	0.85	0	30,47,47	0.80	0
158	GDP	RT	501	-	25,30,30	0.81	0	30,47,47	0.88	2 (6%)
158	GDP	WV	501	-	25,30,30	0.83	0	30,47,47	0.81	1 (3%)
160	GTP	ZL	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
160	GTP	YL	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	2 (5%)
158	GDP	TU	501	-	25,30,30	0.82	0	30,47,47	0.83	1 (3%)
158	GDP	OQ	501	-	25,30,30	0.84	0	30,47,47	0.84	0
160	GTP	JT	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	LR	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	LA	501	-	25,30,30	0.84	0	30,47,47	0.78	0
160	GTP	NL	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	TX	602	159	29,34,34	1.26	6 (20%)	35,54,54	1.32	5 (14%)
160	GTP	VE	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.82	1 (2%)
160	GTP	LZ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	OO	501	-	25,30,30	0.82	0	30,47,47	0.87	1 (3%)
160	GTP	SY	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	MM	501	-	25,30,30	0.82	0	30,47,47	0.80	0
160	GTP	CX	602	159	29,34,34	1.19	2 (6%)	35,54,54	1.33	5 (14%)
160	GTP	QA	602	159	29,34,34	1.16	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	WP	501	-	25,30,30	0.84	0	30,47,47	0.81	0
158	GDP	GD	501	-	25,30,30	0.82	0	30,47,47	0.88	2 (6%)
158	GDP	YB	501	-	25,30,30	0.86	0	30,47,47	0.83	0
160	GTP	OD	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.88	1 (2%)
160	GTP	RQ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	VT	501	-	25,30,30	0.82	0	30,47,47	0.83	0
160	GTP	YE	602	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	2 (5%)
158	GDP	NU	501	-	25,30,30	0.84	0	30,47,47	0.83	0
158	GDP	SZ	501	-	25,30,30	0.83	0	30,47,47	0.92	3 (10%)
160	GTP	ZJ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	2 (5%)
160	GTP	IY	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	QQ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	JZ	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	UG	501	-	25,30,30	0.81	0	30,47,47	0.81	0
160	GTP	DS	602	159	29,34,34	1.21	1 (3%)	35,54,54	1.32	4 (11%)
158	GDP	HH	501	-	25,30,30	0.81	0	30,47,47	0.88	2 (6%)
158	GDP	SD	501	-	25,30,30	0.84	0	30,47,47	0.90	2 (6%)
160	GTP	NT	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	FP	501	-	25,30,30	0.83	0	30,47,47	0.80	0
158	GDP	GT	501	-	25,30,30	0.82	0	30,47,47	0.90	1 (3%)
160	GTP	LF	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
160	GTP	UR	501	159	29,34,34	1.16	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	PZ	501	-	25,30,30	0.85	0	30,47,47	0.83	0
158	GDP	MC	501	-	25,30,30	0.83	0	30,47,47	0.82	1 (3%)
158	GDP	FB	501	-	25,30,30	0.84	0	30,47,47	0.84	1 (3%)
158	GDP	FZ	501	-	25,30,30	1.01	2 (8%)	30,47,47	1.15	3 (10%)
160	GTP	WW	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	VX	501	-	25,30,30	0.82	0	30,47,47	0.83	0
160	GTP	PW	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	ZR	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	2 (5%)
160	GTP	XA	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.84	1 (2%)
156	ATP	9e	5001	-	28,33,33	0.75	0	34,52,52	0.64	1 (2%)
158	GDP	CE	501	-	25,30,30	0.83	0	30,47,47	0.84	1 (3%)
160	GTP	TZ	602	159	29,34,34	1.16	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	AU	501	-	25,30,30	0.83	0	30,47,47	0.85	1 (3%)
160	GTP	ML	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	YO	501	-	25,30,30	0.85	0	30,47,47	0.81	0
160	GTP	SO	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	ZT	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	CK	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	3 (10%)
160	GTP	ZV	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	2 (5%)
158	GDP	DA	501	-	25,30,30	0.82	0	30,47,47	0.83	0
158	GDP	WT	501	-	25,30,30	0.87	0	30,47,47	0.81	0
158	GDP	XL	501	-	25,30,30	0.84	0	30,47,47	0.82	0
160	GTP	GC	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.85	2 (5%)
158	GDP	FL	602	-	25,30,30	0.85	0	30,47,47	0.84	1 (3%)
160	GTP	IK	602	159	29,34,34	1.19	2 (6%)	35,54,54	1.38	5 (14%)
158	GDP	AI	501	-	25,30,30	0.84	0	30,47,47	0.86	1 (3%)
158	GDP	LS	501	-	25,30,30	0.84	0	30,47,47	0.83	0
160	GTP	LV	502	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	VR	501	-	25,30,30	0.81	0	30,47,47	0.83	0
160	GTP	VO	501	159	29,34,34	1.30	5 (17%)	35,54,54	1.19	5 (14%)
158	GDP	RN	501	-	25,30,30	0.82	0	30,47,47	0.91	2 (6%)
160	GTP	TI	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	DO	501	159	29,34,34	1.21	1 (3%)	35,54,54	1.34	4 (11%)
158	GDP	LI	501	-	25,30,30	0.82	0	30,47,47	0.86	1 (3%)
160	GTP	UL	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.88	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	OE	501	-	25,30,30	0.85	0	30,47,47	0.83	0
158	GDP	DR	501	-	25,30,30	0.85	0	30,47,47	0.84	1 (3%)
158	GDP	ZG	501	-	25,30,30	0.83	0	30,47,47	0.84	1 (3%)
158	GDP	UC	501	-	25,30,30	0.83	0	30,47,47	0.85	0
160	GTP	WM	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	AJ	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
156	ATP	8f	4702	-	28,33,33	0.78	0	34,52,52	0.64	1 (2%)
158	GDP	TP	501	-	25,30,30	0.79	0	30,47,47	0.98	3 (10%)
158	GDP	UQ	501	-	25,30,30	0.84	0	30,47,47	0.90	1 (3%)
158	GDP	JF	501	-	25,30,30	0.84	0	30,47,47	0.82	0
158	GDP	JK	501	-	25,30,30	0.97	2 (8%)	30,47,47	1.12	3 (10%)
158	GDP	BQ	501	-	25,30,30	0.86	0	30,47,47	0.84	0
158	GDP	DT	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	3 (10%)
158	GDP	PX	501	-	25,30,30	0.82	0	30,47,47	0.81	0
158	GDP	DG	501	-	25,30,30	0.81	0	30,47,47	0.86	1 (3%)
160	GTP	FA	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	GP	501	-	25,30,30	0.82	0	30,47,47	0.87	0
160	GTP	RI	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	UW	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	CH	501	-	25,30,30	0.86	0	30,47,47	0.85	2 (6%)
160	GTP	XY	501	159	29,34,34	1.00	3 (10%)	35,54,54	0.79	1 (2%)
158	GDP	WJ	501	-	25,30,30	0.84	0	30,47,47	0.79	1 (3%)
160	GTP	TA	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	AG	501	-	25,30,30	1.10	2 (8%)	30,47,47	1.20	2 (6%)
157	ADP	7a	4703	-	24,29,29	0.87	0	29,45,45	1.18	2 (6%)
160	GTP	EI	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	FG	501	159	29,34,34	1.22	2 (6%)	35,54,54	1.34	4 (11%)
160	GTP	FW	602	159	29,34,34	1.22	2 (6%)	35,54,54	1.36	5 (14%)
160	GTP	XI	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	ZK	501	-	25,30,30	0.83	0	30,47,47	0.82	0
160	GTP	FO	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	NE	501	-	25,30,30	0.86	0	30,47,47	0.84	1 (3%)
160	GTP	ZD	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	1 (2%)
157	ADP	7f	4701	-	24,29,29	0.83	0	29,45,45	1.35	4 (13%)
160	GTP	JL	501	159	29,34,34	1.21	4 (13%)	35,54,54	1.18	2 (5%)
158	GDP	YD	501	-	25,30,30	0.85	0	30,47,47	0.86	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
160	GTP	RM	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.93	2 (5%)
160	GTP	OP	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	SR	501	-	25,30,30	0.79	0	30,47,47	0.99	3 (10%)
158	GDP	RJ	501	-	25,30,30	0.84	0	30,47,47	0.86	1 (3%)
160	GTP	NX	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.90	1 (2%)
158	GDP	BK	501	-	25,30,30	0.84	0	30,47,47	0.80	0
160	GTP	QO	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	OV	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.90	1 (2%)
160	GTP	LP	502	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	1 (2%)
156	ATP	8f	4704	-	28,33,33	0.82	1 (3%)	34,52,52	0.60	1 (2%)
158	GDP	FR	501	-	25,30,30	0.85	0	30,47,47	0.82	0
160	GTP	QI	602	159	29,34,34	1.18	2 (6%)	35,54,54	1.34	5 (14%)
160	GTP	FY	501	159	29,34,34	1.19	1 (3%)	35,54,54	1.36	4 (11%)
160	GTP	GQ	602	159	29,34,34	1.08	2 (6%)	35,54,54	0.86	2 (5%)
160	GTP	CL	501	159	29,34,34	1.19	2 (6%)	35,54,54	1.34	5 (14%)
160	GTP	PU	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	NA	501	-	25,30,30	0.82	0	30,47,47	0.84	1 (3%)
160	GTP	SC	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.88	1 (2%)
160	GTP	QY	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	MJ	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	RS	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	2 (5%)
160	GTP	YP	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.82	1 (2%)
158	GDP	XJ	501	-	25,30,30	1.12	2 (8%)	30,47,47	1.15	2 (6%)
158	GDP	ZY	501	-	25,30,30	0.82	0	30,47,47	0.91	3 (10%)
158	GDP	EN	501	-	25,30,30	0.85	0	30,47,47	0.81	1 (3%)
160	GTP	MD	502	159	29,34,34	1.15	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	MQ	501	-	25,30,30	0.96	2 (8%)	30,47,47	1.10	3 (10%)
158	GDP	YW	501	-	25,30,30	0.85	0	30,47,47	0.89	2 (6%)
160	GTP	YC	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	GH	501	-	25,30,30	0.83	0	30,47,47	0.91	2 (6%)
160	GTP	HU	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	QC	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	JU	501	-	25,30,30	0.84	0	30,47,47	0.81	0
158	GDP	MA	501	-	25,30,30	0.80	0	30,47,47	0.79	0
156	ATP	7f	4702	-	28,33,33	0.74	0	34,52,52	0.60	1 (2%)
158	GDP	NG	501	-	25,30,30	0.84	0	30,47,47	0.84	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
160	GTP	WS	501	159	29,34,34	1.23	4 (13%)	35,54,54	1.24	4 (11%)
160	GTP	WY	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	Ah	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	IA	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.89	1 (2%)
158	GDP	FH	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	3 (10%)
158	GDP	PP	501	-	25,30,30	0.86	0	30,47,47	0.86	1 (3%)
160	GTP	TR	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.90	2 (5%)
158	GDP	KC	501	-	25,30,30	0.85	0	30,47,47	0.83	1 (3%)
158	GDP	GV	501	-	25,30,30	0.81	0	30,47,47	0.88	2 (6%)
160	GTP	HO	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	Ag	501	-	25,30,30	0.84	0	30,47,47	0.86	2 (6%)
160	GTP	DH	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	BA	501	-	25,30,30	0.84	0	30,47,47	0.83	0
158	GDP	MG	501	-	25,30,30	0.85	0	30,47,47	0.87	1 (3%)
160	GTP	JN	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.81	1 (2%)
160	GTP	MV	502	159	29,34,34	1.14	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	AD	501	159	29,34,34	1.18	2 (6%)	35,54,54	1.33	4 (11%)
158	GDP	BW	501	-	25,30,30	0.84	0	30,47,47	0.81	1 (3%)
160	GTP	XO	602	159	29,34,34	1.20	2 (6%)	35,54,54	1.38	5 (14%)
158	GDP	MU	501	-	25,30,30	0.85	0	30,47,47	0.85	1 (3%)
160	GTP	SU	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.85	2 (5%)
160	GTP	KB	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	VU	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	DP	501	-	25,30,30	0.84	0	30,47,47	0.80	1 (3%)
158	GDP	JB	501	-	25,30,30	0.86	0	30,47,47	0.81	0
160	GTP	KH	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.81	1 (2%)
158	GDP	VZ	501	-	25,30,30	0.82	0	30,47,47	0.81	1 (3%)
160	GTP	IG	501	159	29,34,34	1.21	1 (3%)	35,54,54	1.36	5 (14%)
158	GDP	FD	501	-	25,30,30	0.84	0	30,47,47	0.79	0
158	GDP	SX	501	-	25,30,30	0.81	0	30,47,47	0.85	0
160	GTP	YR	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	LK	501	-	25,30,30	0.85	0	30,47,47	0.92	1 (3%)
160	GTP	RW	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	2 (5%)
158	GDP	DX	501	-	25,30,30	0.84	0	30,47,47	0.84	1 (3%)
160	GTP	IU	501	159	29,34,34	1.21	2 (6%)	35,54,54	1.36	5 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	IB	501	-	25,30,30	0.83	0	30,47,47	0.92	2 (6%)
158	GDP	SF	501	-	25,30,30	0.80	0	30,47,47	0.88	2 (6%)
160	GTP	ZN	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	HX	501	-	25,30,30	0.82	0	30,47,47	0.84	1 (3%)
160	GTP	FM	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	QU	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	DZ	501	-	25,30,30	0.84	0	30,47,47	0.79	1 (3%)
158	GDP	SP	501	-	25,30,30	0.84	0	30,47,47	0.84	0
160	GTP	WI	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.81	1 (2%)
160	GTP	MN	502	159	29,34,34	1.14	2 (6%)	35,54,54	0.87	2 (5%)
158	GDP	UA	501	-	25,30,30	0.85	0	30,47,47	0.79	1 (3%)
158	GDP	Ae	501	-	25,30,30	1.13	2 (8%)	30,47,47	1.21	3 (10%)
158	GDP	OK	501	-	25,30,30	0.81	0	30,47,47	0.89	2 (6%)
160	GTP	RE	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	VI	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	Aj	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	ID	501	-	25,30,30	0.99	2 (8%)	30,47,47	1.16	3 (10%)
156	ATP	7f	4704	-	28,33,33	0.74	0	34,52,52	0.60	1 (2%)
160	GTP	ZH	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.89	2 (5%)
158	GDP	OU	501	-	25,30,30	0.83	0	30,47,47	0.87	1 (3%)
158	GDP	LO	501	-	25,30,30	0.81	0	30,47,47	0.79	0
160	GTP	IQ	501	159	29,34,34	1.21	1 (3%)	35,54,54	1.34	6 (17%)
158	GDP	ZO	501	-	25,30,30	0.84	0	30,47,47	0.86	1 (3%)
158	GDP	QR	501	-	25,30,30	0.88	0	30,47,47	0.82	2 (6%)
158	GDP	WB	501	-	25,30,30	0.83	0	30,47,47	0.85	0
158	GDP	VD	501	-	25,30,30	0.85	0	30,47,47	0.84	1 (3%)
160	GTP	QM	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	OF	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	DJ	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	JH	602	159	29,34,34	1.20	1 (3%)	35,54,54	1.31	5 (14%)
158	GDP	DK	501	-	25,30,30	0.83	0	30,47,47	0.84	1 (3%)
158	GDP	NK	501	-	25,30,30	0.83	0	30,47,47	0.88	1 (3%)
158	GDP	PR	501	-	25,30,30	0.85	0	30,47,47	0.79	0
158	GDP	RP	501	-	25,30,30	0.82	0	30,47,47	0.89	2 (6%)
160	GTP	NJ	503	159	29,34,34	1.10	2 (6%)	35,54,54	0.86	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
160	GTP	XC	602	159	29,34,34	1.16	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	WL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	3 (10%)
160	GTP	Af	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	PD	501	-	25,30,30	0.85	0	30,47,47	0.84	0
160	GTP	AB	602	159	29,34,34	1.20	2 (6%)	35,54,54	1.36	5 (14%)
160	GTP	AP	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	CN	602	159	29,34,34	1.15	2 (6%)	35,54,54	0.88	1 (2%)
160	GTP	EY	501	159	29,34,34	1.09	2 (6%)	35,54,54	0.87	2 (5%)
158	GDP	OG	501	-	25,30,30	0.83	0	30,47,47	0.85	0
160	GTP	BL	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	OL	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	PY	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	IO	501	159	29,34,34	1.19	4 (13%)	35,54,54	1.27	3 (8%)
160	GTP	WC	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	OA	501	-	25,30,30	0.83	0	30,47,47	0.85	1 (3%)
160	GTP	BH	602	159	29,34,34	1.20	2 (6%)	35,54,54	1.35	5 (14%)
160	GTP	OZ	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.88	2 (5%)
158	GDP	GN	501	-	25,30,30	0.80	0	30,47,47	0.88	1 (3%)
158	GDP	JQ	501	-	25,30,30	0.86	0	30,47,47	0.81	0
158	GDP	JY	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	3 (10%)
158	GDP	CM	501	-	25,30,30	0.83	0	30,47,47	0.83	1 (3%)
158	GDP	IR	501	-	25,30,30	0.85	0	30,47,47	0.82	0
156	ATP	7a	4701	-	28,33,33	0.73	0	34,52,52	0.63	1 (2%)
158	GDP	YS	501	-	25,30,30	0.86	0	30,47,47	0.83	1 (3%)
160	GTP	MH	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	EG	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	PO	602	159	29,34,34	1.16	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	WU	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.82	1 (2%)
160	GTP	OT	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.88	1 (2%)
160	GTP	XU	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	QS	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	JM	501	-	25,30,30	0.84	0	30,47,47	0.81	0
160	GTP	NB	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	UE	501	-	25,30,30	0.85	0	30,47,47	0.88	1 (3%)
158	GDP	IL	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.10	3 (10%)
158	GDP	XP	501	-	25,30,30	0.87	0	30,47,47	0.84	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	ZQ	501	-	25,30,30	0.83	0	30,47,47	0.84	1 (3%)
158	GDP	TY	501	-	25,30,30	0.83	0	30,47,47	0.85	1 (3%)
158	GDP	GJ	501	-	25,30,30	0.82	0	30,47,47	0.89	2 (6%)
160	GTP	TO	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	XV	501	-	25,30,30	0.85	0	30,47,47	0.84	1 (3%)
160	GTP	HG	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.88	2 (5%)
160	GTP	KJ	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.82	1 (2%)
160	GTP	PM	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	CA	501	-	25,30,30	0.82	0	30,47,47	0.93	2 (6%)
158	GDP	QD	501	-	25,30,30	0.85	0	30,47,47	0.81	0
160	GTP	CF	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	AA	501	-	25,30,30	0.84	0	30,47,47	0.89	1 (3%)
156	ATP	9e	5003	-	28,33,33	0.74	0	34,52,52	0.61	1 (2%)
158	GDP	EB	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	3 (10%)
158	GDP	LE	501	-	25,30,30	0.84	0	30,47,47	0.87	2 (6%)
158	GDP	QF	501	-	25,30,30	0.86	0	30,47,47	0.81	0
158	GDP	NM	501	-	25,30,30	0.82	0	30,47,47	0.83	1 (3%)
156	ATP	9f	4701	-	28,33,33	0.78	1 (3%)	34,52,52	0.60	1 (2%)
160	GTP	SI	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	2 (5%)
160	GTP	SE	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	AY	501	-	25,30,30	0.86	0	30,47,47	0.90	2 (6%)
158	GDP	ED	501	-	25,30,30	1.09	1 (4%)	30,47,47	1.07	2 (6%)
158	GDP	JW	501	-	25,30,30	0.97	2 (8%)	30,47,47	1.12	3 (10%)
158	GDP	QX	501	-	25,30,30	0.85	0	30,47,47	0.83	2 (6%)
158	GDP	JG	501	-	25,30,30	0.99	2 (8%)	30,47,47	1.11	3 (10%)
158	GDP	OM	501	-	25,30,30	0.83	0	30,47,47	0.84	0
158	GDP	RX	501	-	25,30,30	0.79	0	30,47,47	0.91	3 (10%)
160	GTP	RA	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	YU	501	-	25,30,30	0.83	0	30,47,47	0.86	2 (6%)
160	GTP	YJ	602	159	29,34,34	1.12	2 (6%)	35,54,54	0.89	2 (5%)
158	GDP	SL	501	-	25,30,30	0.81	0	30,47,47	0.89	1 (3%)
160	GTP	YN	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	KR	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.84	1 (2%)
158	GDP	CU	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.13	3 (10%)
160	GTP	HK	501	159	29,34,34	1.10	2 (6%)	35,54,54	0.86	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
158	GDP	ZI	501	-	25,30,30	0.84	0	30,47,47	0.88	2 (6%)
160	GTP	MF	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	2 (5%)
160	GTP	EM	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	ZB	501	159	29,34,34	1.16	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	BN	602	159	29,34,34	1.20	2 (6%)	35,54,54	1.39	5 (14%)
160	GTP	DF	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.85	1 (2%)
158	GDP	BO	501	-	25,30,30	1.03	2 (8%)	30,47,47	1.21	3 (10%)
160	GTP	HM	602	159	29,34,34	1.11	2 (6%)	35,54,54	0.90	2 (5%)
160	GTP	LL	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
158	GDP	VF	501	-	25,30,30	0.83	0	30,47,47	0.81	0
158	GDP	XH	501	-	25,30,30	0.85	0	30,47,47	0.78	1 (3%)
158	GDP	GR	501	-	25,30,30	0.80	0	30,47,47	0.94	3 (10%)
160	GTP	QE	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	QW	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	WQ	602	159	29,34,34	1.14	2 (6%)	35,54,54	0.83	1 (2%)
160	GTP	TV	501	159	29,34,34	1.16	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	EO	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.83	1 (2%)
158	GDP	RH	501	-	25,30,30	0.87	0	30,47,47	0.88	1 (3%)
160	GTP	OH	501	159	29,34,34	1.11	2 (6%)	35,54,54	0.88	1 (2%)
158	GDP	YQ	501	-	25,30,30	0.85	0	30,47,47	0.82	0
158	GDP	TJ	501	-	25,30,30	0.81	0	30,47,47	0.85	0
158	GDP	UI	501	-	25,30,30	0.84	0	30,47,47	0.84	0
160	GTP	DQ	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	SS	602	159	29,34,34	1.20	4 (13%)	35,54,54	1.44	5 (14%)
158	GDP	QB	501	-	25,30,30	0.86	0	30,47,47	0.84	0
158	GDP	DI	501	-	25,30,30	0.83	0	30,47,47	0.82	1 (3%)
158	GDP	SV	501	-	25,30,30	0.84	0	30,47,47	0.85	1 (3%)
160	GTP	ZF	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.87	1 (2%)
160	GTP	VQ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	MT	501	159	29,34,34	1.14	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	BZ	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	1 (2%)
158	GDP	GB	501	-	25,30,30	0.81	0	30,47,47	0.89	2 (6%)
158	GDP	TW	501	-	25,30,30	0.83	0	30,47,47	0.86	1 (3%)
160	GTP	UH	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.84	1 (2%)
160	GTP	PC	602	159	29,34,34	1.23	1 (3%)	35,54,54	1.39	5 (14%)
160	GTP	EU	501	159	29,34,34	1.12	2 (6%)	35,54,54	0.86	2 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
160	GTP	PQ	501	159	29,34,34	1.13	2 (6%)	35,54,54	0.86	1 (2%)
160	GTP	UB	501	159	29,34,34	1.15	2 (6%)	35,54,54	0.86	2 (5%)
158	GDP	TD	501	-	25,30,30	0.80	0	30,47,47	0.97	3 (10%)
158	GDP	ZA	501	-	25,30,30	0.85	0	30,47,47	0.81	1 (3%)
160	GTP	CP	602	159	29,34,34	1.13	2 (6%)	35,54,54	0.85	1 (2%)
160	GTP	JR	602	159	29,34,34	1.20	1 (3%)	35,54,54	1.32	5 (14%)
160	GTP	SA	501	159	29,34,34	1.28	4 (13%)	35,54,54	1.45	6 (17%)

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
156	ATP	7e	4704	-	-	5/18/38/38	0/3/3/3
156	ATP	7e	4702	-	-	5/18/38/38	0/3/3/3
160	GTP	ES	501	159	-	5/18/38/38	0/3/3/3
158	GDP	ZC	501	-	-	2/12/32/32	0/3/3/3
158	GDP	VP	501	-	-	2/12/32/32	0/3/3/3
160	GTP	UY	602	159	-	5/18/38/38	0/3/3/3
160	GTP	Ad	602	159	-	5/18/38/38	0/3/3/3
157	ADP	8f	4701	-	-	5/12/32/32	0/3/3/3
158	GDP	ZU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	XQ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	UK	501	-	-	2/12/32/32	0/3/3/3
157	ADP	7e	4701	-	-	4/12/32/32	0/3/3/3
158	GDP	Ac	501	-	-	2/12/32/32	0/3/3/3
158	GDP	MO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	CJ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	EC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	IH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	ER	501	-	-	2/12/32/32	0/3/3/3
160	GTP	Ap	501	159	-	5/18/38/38	0/3/3/3
160	GTP	HQ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	DL	501	159	-	5/18/38/38	0/3/3/3
160	GTP	SQ	602	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	KW	501	-	-	2/12/32/32	0/3/3/3
160	GTP	UN	602	159	-	5/18/38/38	0/3/3/3
160	GTP	BV	602	159	-	5/18/38/38	0/3/3/3
158	GDP	CQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	OS	501	-	-	2/12/32/32	0/3/3/3
160	GTP	KL	602	159	-	5/18/38/38	0/3/3/3
158	GDP	XN	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TQ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	AN	501	159	-	5/18/38/38	0/3/3/3
158	GDP	LG	501	-	-	2/12/32/32	0/3/3/3
158	GDP	Am	501	-	-	2/12/32/32	0/3/3/3
158	GDP	KA	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NZ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	QK	602	159	-	5/18/38/38	0/3/3/3
160	GTP	BP	501	159	-	5/18/38/38	0/3/3/3
160	GTP	HC	602	159	-	5/18/38/38	0/3/3/3
158	GDP	ZW	501	-	-	2/12/32/32	0/3/3/3
158	GDP	NI	501	-	-	2/12/32/32	0/3/3/3
160	GTP	XE	501	159	-	5/18/38/38	0/3/3/3
160	GTP	UJ	501	159	-	4/18/38/38	0/3/3/3
160	GTP	RG	501	159	-	5/18/38/38	0/3/3/3
157	ADP	9f	4702	-	-	4/12/32/32	0/3/3/3
158	GDP	NS	501	-	-	2/12/32/32	0/3/3/3
156	ATP	9e	5004	-	-	8/18/38/38	0/3/3/3
158	GDP	TS	501	-	-	2/12/32/32	0/3/3/3
158	GDP	XT	501	-	-	2/12/32/32	0/3/3/3
160	GTP	AX	501	159	-	5/18/38/38	0/3/3/3
160	GTP	AT	501	159	-	5/18/38/38	0/3/3/3
160	GTP	PE	602	159	-	5/18/38/38	0/3/3/3
160	GTP	EQ	602	159	-	5/18/38/38	0/3/3/3
158	GDP	XB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	PJ	501	-	-	2/12/32/32	0/3/3/3
157	ADP	8e	4701	-	-	4/12/32/32	0/3/3/3
158	GDP	HD	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	UP	501	159	-	5/18/38/38	0/3/3/3
156	ATP	7a	4702	-	-	8/18/38/38	0/3/3/3
160	GTP	ND	501	159	-	5/18/38/38	0/3/3/3
158	GDP	NY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	NO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	FE	501	159	-	5/18/38/38	0/3/3/3
158	GDP	NC	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BJ	602	159	-	5/18/38/38	0/3/3/3
158	GDP	QN	501	-	-	2/12/32/32	0/3/3/3
158	GDP	Ak	501	-	-	2/12/32/32	0/3/3/3
160	GTP	WK	602	159	-	5/18/38/38	0/3/3/3
158	GDP	TH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	EV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	LB	501	159	-	5/18/38/38	0/3/3/3
160	GTP	CI	501	159	-	5/18/38/38	0/3/3/3
158	GDP	HF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	PA	501	-	-	2/12/32/32	0/3/3/3
160	GTP	JE	501	159	-	5/18/38/38	0/3/3/3
160	GTP	FS	602	159	-	5/18/38/38	0/3/3/3
158	GDP	Ai	501	-	-	2/12/32/32	0/3/3/3
160	GTP	GG	501	159	-	5/18/38/38	0/3/3/3
158	GDP	PH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	LY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WF	501	-	-	2/12/32/32	0/3/3/3
156	ATP	8e	4702	-	-	8/18/38/38	0/3/3/3
160	GTP	NR	502	159	-	5/18/38/38	0/3/3/3
160	GTP	SM	501	159	-	5/18/38/38	0/3/3/3
160	GTP	SK	602	159	-	5/18/38/38	0/3/3/3
158	GDP	CW	501	-	-	2/12/32/32	0/3/3/3
160	GTP	GO	501	159	-	5/18/38/38	0/3/3/3
160	GTP	TK	501	159	-	5/18/38/38	0/3/3/3
160	GTP	TC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	FN	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WR	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	KN	602	159	-	5/18/38/38	0/3/3/3
158	GDP	EJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	OR	602	159	-	5/18/38/38	0/3/3/3
160	GTP	RK	602	159	-	5/18/38/38	0/3/3/3
160	GTP	DM	501	159	-	5/18/38/38	0/3/3/3
156	ATP	9f	4703	-	-	5/18/38/38	0/3/3/3
160	GTP	YG	602	159	-	5/18/38/38	0/3/3/3
158	GDP	AQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RF	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TT	602	159	-	5/18/38/38	0/3/3/3
156	ATP	7a	4704	-	-	4/18/38/38	0/3/3/3
160	GTP	KF	602	159	-	5/18/38/38	0/3/3/3
158	GDP	RB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	EH	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	GL	501	-	-	2/12/32/32	0/3/3/3
158	GDP	HB	501	-	-	3/12/32/32	0/3/3/3
157	ADP	7b	4704	-	-	4/12/32/32	0/3/3/3
160	GTP	PI	602	159	-	5/18/38/38	0/3/3/3
156	ATP	8f	4703	-	-	6/18/38/38	0/3/3/3
160	GTP	MZ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	Ab	501	159	-	5/18/38/38	0/3/3/3
160	GTP	VW	501	159	-	5/18/38/38	0/3/3/3
158	GDP	QH	501	-	-	2/12/32/32	0/3/3/3
160	GTP	MP	501	159	-	5/18/38/38	0/3/3/3
158	GDP	HV	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WD	501	-	-	2/12/32/32	0/3/3/3
158	GDP	EL	501	-	-	2/12/32/32	0/3/3/3
160	GTP	WE	602	159	-	5/18/38/38	0/3/3/3
158	GDP	LC	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RY	602	159	-	5/18/38/38	0/3/3/3
158	GDP	EZ	602	-	-	2/12/32/32	0/3/3/3
158	GDP	ZE	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	DE	501	-	-	2/12/32/32	0/3/3/3
160	GTP	FQ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	RZ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	AM	501	-	-	2/12/32/32	0/3/3/3
156	ATP	8e	4704	-	-	7/18/38/38	0/3/3/3
160	GTP	OJ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	OB	501	159	-	5/18/38/38	0/3/3/3
160	GTP	VC	501	159	-	2/18/38/38	0/3/3/3
158	GDP	BM	501	-	-	2/12/32/32	0/3/3/3
158	GDP	IV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	IM	602	159	-	5/18/38/38	0/3/3/3
160	GTP	PS	501	159	-	5/18/38/38	0/3/3/3
160	GTP	UD	501	159	-	5/18/38/38	0/3/3/3
158	GDP	WN	501	-	-	2/12/32/32	0/3/3/3
160	GTP	LD	602	159	-	5/18/38/38	0/3/3/3
160	GTP	SW	501	159	-	5/18/38/38	0/3/3/3
160	GTP	IE	501	159	-	5/18/38/38	0/3/3/3
160	GTP	XM	602	159	-	5/18/38/38	0/3/3/3
160	GTP	JP	602	159	-	5/18/38/38	0/3/3/3
158	GDP	BY	501	-	-	2/12/32/32	0/3/3/3
160	GTP	YZ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	VK	501	159	-	5/18/38/38	0/3/3/3
160	GTP	YV	602	159	-	5/18/38/38	0/3/3/3
158	GDP	CY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	CO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BD	602	159	-	5/18/38/38	0/3/3/3
158	GDP	UU	501	-	-	2/12/32/32	0/3/3/3
158	GDP	LW	501	-	-	2/12/32/32	0/3/3/3
156	ATP	7b	4702	-	-	5/18/38/38	0/3/3/3
160	GTP	AL	602	159	-	5/18/38/38	0/3/3/3
160	GTP	JA	501	159	-	5/18/38/38	0/3/3/3
158	GDP	EF	501	-	-	2/12/32/32	0/3/3/3
160	GTP	WA	602	159	-	5/18/38/38	0/3/3/3
158	GDP	FV	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	YM	501	-	-	2/12/32/32	0/3/3/3
158	GDP	BS	501	-	-	2/12/32/32	0/3/3/3
160	GTP	KT	501	159	-	5/18/38/38	0/3/3/3
158	GDP	VN	501	-	-	2/12/32/32	0/3/3/3
158	GDP	KK	501	-	-	2/12/32/32	0/3/3/3
160	GTP	LN	501	159	-	5/18/38/38	0/3/3/3
158	GDP	XD	501	-	-	2/12/32/32	0/3/3/3
160	GTP	MX	502	159	-	5/18/38/38	0/3/3/3
160	GTP	RU	501	159	-	5/18/38/38	0/3/3/3
158	GDP	YK	501	-	-	2/12/32/32	0/3/3/3
158	GDP	IJ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	DN	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SJ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	VB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	ET	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RO	602	159	-	5/18/38/38	0/3/3/3
158	GDP	YF	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BB	501	159	-	5/18/38/38	0/3/3/3
158	GDP	IF	501	-	-	2/12/32/32	0/3/3/3
160	GTP	JX	501	159	-	5/18/38/38	0/3/3/3
158	GDP	YY	501	-	-	2/12/32/32	0/3/3/3
160	GTP	VA	501	159	-	5/18/38/38	0/3/3/3
158	GDP	FT	501	-	-	2/12/32/32	0/3/3/3
158	GDP	CS	501	-	-	2/12/32/32	0/3/3/3
160	GTP	IS	501	159	-	5/18/38/38	0/3/3/3
158	GDP	AO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	DU	501	159	-	5/18/38/38	0/3/3/3
160	GTP	EK	602	159	-	5/18/38/38	0/3/3/3
160	GTP	LJ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	PF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	AC	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WZ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	EE	501	159	-	5/18/38/38	0/3/3/3
160	GTP	DW	602	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	FC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	KG	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HY	501	159	-	5/18/38/38	0/3/3/3
160	GTP	VM	602	159	-	5/18/38/38	0/3/3/3
160	GTP	ON	501	159	-	5/18/38/38	0/3/3/3
158	GDP	QZ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	PG	501	159	-	5/18/38/38	0/3/3/3
160	GTP	YX	602	159	-	5/18/38/38	0/3/3/3
160	GTP	KD	501	159	-	5/18/38/38	0/3/3/3
158	GDP	KU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	MR	602	159	-	5/18/38/38	0/3/3/3
160	GTP	TG	501	159	-	5/18/38/38	0/3/3/3
160	GTP	FI	602	159	-	5/18/38/38	0/3/3/3
158	GDP	OY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	HL	501	-	-	2/12/32/32	0/3/3/3
158	GDP	PL	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SN	501	-	-	2/12/32/32	0/3/3/3
157	ADP	9e	5002	-	-	4/12/32/32	0/3/3/3
160	GTP	HA	501	159	-	5/18/38/38	0/3/3/3
160	GTP	ZP	501	159	-	5/18/38/38	0/3/3/3
158	GDP	HN	501	-	-	3/12/32/32	0/3/3/3
158	GDP	JD	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	AZ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	YT	602	159	-	5/18/38/38	0/3/3/3
158	GDP	MI	501	-	-	2/12/32/32	0/3/3/3
160	GTP	JV	501	159	-	5/18/38/38	0/3/3/3
158	GDP	JS	501	-	-	2/12/32/32	0/3/3/3
160	GTP	GU	602	159	-	5/18/38/38	0/3/3/3
158	GDP	IZ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	HP	501	-	-	2/12/32/32	0/3/3/3
158	GDP	VL	501	-	-	2/12/32/32	0/3/3/3
160	GTP	XG	602	159	-	5/18/38/38	0/3/3/3
158	GDP	TL	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	GZ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	VS	501	159	-	5/18/38/38	0/3/3/3
160	GTP	IW	501	159	-	5/18/38/38	0/3/3/3
158	GDP	KM	501	-	-	2/12/32/32	0/3/3/3
158	GDP	DV	501	-	-	2/12/32/32	0/3/3/3
158	GDP	BC	501	-	-	2/12/32/32	0/3/3/3
158	GDP	TB	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TE	501	159	-	5/18/38/38	0/3/3/3
158	GDP	QJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NH	502	159	-	5/18/38/38	0/3/3/3
158	GDP	ZM	501	-	-	2/12/32/32	0/3/3/3
158	GDP	XF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	QV	501	-	-	2/12/32/32	0/3/3/3
158	GDP	LM	501	-	-	2/12/32/32	0/3/3/3
160	GTP	LH	501	159	-	5/18/38/38	0/3/3/3
158	GDP	IN	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BX	602	159	-	5/18/38/38	0/3/3/3
158	GDP	OC	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HE	602	159	-	5/18/38/38	0/3/3/3
156	ATP	7b	4701	-	-	4/18/38/38	0/3/3/3
160	GTP	LT	602	159	-	5/18/38/38	0/3/3/3
158	GDP	VH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	AW	501	-	-	2/12/32/32	0/3/3/3
158	GDP	VV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	AF	501	159	-	5/18/38/38	0/3/3/3
160	GTP	WG	501	159	-	2/18/38/38	0/3/3/3
158	GDP	ST	501	-	-	2/12/32/32	0/3/3/3
160	GTP	PK	501	159	-	5/18/38/38	0/3/3/3
160	GTP	VG	501	159	-	5/18/38/38	0/3/3/3
160	GTP	Al	602	159	-	5/18/38/38	0/3/3/3
158	GDP	Aa	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	UM	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TM	501	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	QL	501	-	-	2/12/32/32	0/3/3/3
158	GDP	HJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	EA	501	159	-	5/18/38/38	0/3/3/3
160	GTP	GS	602	159	-	5/18/38/38	0/3/3/3
160	GTP	KV	602	159	-	5/18/38/38	0/3/3/3
158	GDP	RD	501	-	-	2/12/32/32	0/3/3/3
156	ATP	7b	4703	-	-	9/18/38/38	0/3/3/3
160	GTP	GM	501	159	-	5/18/38/38	0/3/3/3
158	GDP	PT	501	-	-	2/12/32/32	0/3/3/3
160	GTP	CV	501	159	-	5/18/38/38	0/3/3/3
160	GTP	AR	602	159	-	5/18/38/38	0/3/3/3
160	GTP	GA	602	159	-	5/18/38/38	0/3/3/3
158	GDP	CC	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HW	501	159	-	5/18/38/38	0/3/3/3
158	GDP	LQ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	KP	602	159	-	5/18/38/38	0/3/3/3
156	ATP	7e	4703	-	-	8/18/38/38	0/3/3/3
158	GDP	GF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JO	501	-	-	2/12/32/32	0/3/3/3
158	GDP	MW	501	-	-	2/12/32/32	0/3/3/3
160	GTP	GE	602	159	-	5/18/38/38	0/3/3/3
160	GTP	CZ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	CB	501	159	-	5/18/38/38	0/3/3/3
160	GTP	WO	501	159	-	5/18/38/38	0/3/3/3
158	GDP	ME	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JI	501	-	-	2/12/32/32	0/3/3/3
158	GDP	BG	501	-	-	2/12/32/32	0/3/3/3
158	GDP	TF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	AE	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NP	501	159	-	5/18/38/38	0/3/3/3
158	GDP	GX	501	-	-	2/12/32/32	0/3/3/3
158	GDP	MY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	IX	501	-	-	2/12/32/32	0/3/3/3
158	GDP	KS	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	XS	501	159	-	5/18/38/38	0/3/3/3
158	GDP	OW	501	-	-	2/12/32/32	0/3/3/3
158	GDP	FX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	MB	502	159	-	5/18/38/38	0/3/3/3
158	GDP	US	501	-	-	2/12/32/32	0/3/3/3
158	GDP	EX	501	-	-	2/12/32/32	0/3/3/3
158	GDP	FF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	TN	501	-	-	2/12/32/32	0/3/3/3
160	GTP	CT	602	159	-	5/18/38/38	0/3/3/3
160	GTP	QG	602	159	-	5/18/38/38	0/3/3/3
158	GDP	QP	501	-	-	2/12/32/32	0/3/3/3
158	GDP	XR	501	-	-	2/12/32/32	0/3/3/3
160	GTP	SG	501	159	-	5/18/38/38	0/3/3/3
158	GDP	UX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	DY	501	159	-	5/18/38/38	0/3/3/3
160	GTP	OX	602	159	-	5/18/38/38	0/3/3/3
158	GDP	ZS	501	-	-	4/12/32/32	0/3/3/3
160	GTP	FK	501	159	-	5/18/38/38	0/3/3/3
160	GTP	GW	501	159	-	5/18/38/38	0/3/3/3
160	GTP	CD	602	159	-	5/18/38/38	0/3/3/3
160	GTP	ZZ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	UO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	II	501	159	-	3/18/38/38	0/3/3/3
160	GTP	NV	503	159	-	5/18/38/38	0/3/3/3
158	GDP	AS	501	-	-	2/12/32/32	0/3/3/3
156	ATP	7f	4703	-	-	9/18/38/38	0/3/3/3
158	GDP	NQ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	JJ	501	159	-	5/18/38/38	0/3/3/3
156	ATP	8e	4703	-	-	5/18/38/38	0/3/3/3
160	GTP	XK	501	159	-	5/18/38/38	0/3/3/3
160	GTP	XW	602	159	-	5/18/38/38	0/3/3/3
158	GDP	XZ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NN	501	159	-	5/18/38/38	0/3/3/3
158	GDP	SH	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	LX	501	159	-	5/18/38/38	0/3/3/3
158	GDP	UZ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	DC	501	-	-	2/12/32/32	0/3/3/3
160	GTP	YA	602	159	-	5/18/38/38	0/3/3/3
158	GDP	BI	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RR	501	-	-	2/12/32/32	0/3/3/3
158	GDP	KI	501	-	-	2/12/32/32	0/3/3/3
160	GTP	JC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	VJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	KZ	602	159	-	5/18/38/38	0/3/3/3
158	GDP	XX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	KX	501	159	-	5/18/38/38	0/3/3/3
158	GDP	OI	501	-	-	2/12/32/32	0/3/3/3
158	GDP	PN	501	-	-	2/12/32/32	0/3/3/3
160	GTP	CR	501	159	-	5/18/38/38	0/3/3/3
160	GTP	HS	501	159	-	5/18/38/38	0/3/3/3
158	GDP	QT	501	-	-	2/12/32/32	0/3/3/3
158	GDP	KY	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BF	602	159	-	5/18/38/38	0/3/3/3
160	GTP	AH	501	159	-	5/18/38/38	0/3/3/3
160	GTP	UF	501	159	-	5/18/38/38	0/3/3/3
158	GDP	IP	501	-	-	2/12/32/32	0/3/3/3
156	ATP	9f	4704	-	-	8/18/38/38	0/3/3/3
158	GDP	BU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	GI	501	159	-	5/18/38/38	0/3/3/3
158	GDP	FJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	DD	501	159	-	5/18/38/38	0/3/3/3
158	GDP	LU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BT	602	159	-	5/18/38/38	0/3/3/3
158	GDP	Ao	501	-	-	2/12/32/32	0/3/3/3
160	GTP	ZX	501	159	-	5/18/38/38	0/3/3/3
158	GDP	PV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	VY	501	159	-	5/18/38/38	0/3/3/3
160	GTP	HI	602	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	HZ	501	-	-	3/12/32/32	0/3/3/3
160	GTP	EW	501	159	-	5/18/38/38	0/3/3/3
160	GTP	DB	501	159	-	5/18/38/38	0/3/3/3
158	GDP	IT	501	-	-	2/12/32/32	0/3/3/3
158	GDP	AK	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RL	501	-	-	2/12/32/32	0/3/3/3
158	GDP	KQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	MK	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NF	502	159	-	5/18/38/38	0/3/3/3
158	GDP	WX	501	-	-	2/12/32/32	0/3/3/3
158	GDP	KE	501	-	-	2/12/32/32	0/3/3/3
158	GDP	YH	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BR	501	159	-	5/18/38/38	0/3/3/3
160	GTP	UT	501	159	-	5/18/38/38	0/3/3/3
158	GDP	HT	501	-	-	2/12/32/32	0/3/3/3
160	GTP	AV	501	159	-	5/18/38/38	0/3/3/3
160	GTP	An	602	159	-	5/18/38/38	0/3/3/3
158	GDP	HR	501	-	-	2/12/32/32	0/3/3/3
160	GTP	GK	602	159	-	5/18/38/38	0/3/3/3
158	GDP	KO	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RT	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	ZL	602	159	-	5/18/38/38	0/3/3/3
160	GTP	YL	602	159	-	5/18/38/38	0/3/3/3
158	GDP	TU	501	-	-	2/12/32/32	0/3/3/3
158	GDP	OQ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	JT	501	159	-	5/18/38/38	0/3/3/3
160	GTP	LR	501	159	-	5/18/38/38	0/3/3/3
158	GDP	LA	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NL	602	159	-	5/18/38/38	0/3/3/3
160	GTP	TX	602	159	-	4/18/38/38	0/3/3/3
160	GTP	VE	501	159	-	5/18/38/38	0/3/3/3
160	GTP	LZ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	OO	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	SY	602	159	-	5/18/38/38	0/3/3/3
158	GDP	MM	501	-	-	2/12/32/32	0/3/3/3
160	GTP	CX	602	159	-	5/18/38/38	0/3/3/3
160	GTP	QA	602	159	-	5/18/38/38	0/3/3/3
158	GDP	WP	501	-	-	2/12/32/32	0/3/3/3
158	GDP	GD	501	-	-	2/12/32/32	0/3/3/3
158	GDP	YB	501	-	-	2/12/32/32	0/3/3/3
160	GTP	OD	602	159	-	5/18/38/38	0/3/3/3
160	GTP	RQ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	VT	501	-	-	2/12/32/32	0/3/3/3
160	GTP	YE	602	159	-	5/18/38/38	0/3/3/3
158	GDP	NU	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SZ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	ZJ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	IY	501	159	-	5/18/38/38	0/3/3/3
160	GTP	QQ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	JZ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	UG	501	-	-	2/12/32/32	0/3/3/3
160	GTP	DS	602	159	-	5/18/38/38	0/3/3/3
158	GDP	HH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SD	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NT	602	159	-	5/18/38/38	0/3/3/3
158	GDP	FP	501	-	-	2/12/32/32	0/3/3/3
158	GDP	GT	501	-	-	2/12/32/32	0/3/3/3
160	GTP	LF	602	159	-	5/18/38/38	0/3/3/3
160	GTP	UR	501	159	-	5/18/38/38	0/3/3/3
158	GDP	PZ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	MC	501	-	-	2/12/32/32	0/3/3/3
158	GDP	FB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	FZ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	WW	501	159	-	5/18/38/38	0/3/3/3
158	GDP	VX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	PW	501	159	-	5/18/38/38	0/3/3/3
160	GTP	ZR	602	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	XA	501	159	-	5/18/38/38	0/3/3/3
156	ATP	9e	5001	-	-	6/18/38/38	0/3/3/3
158	GDP	CE	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TZ	602	159	-	5/18/38/38	0/3/3/3
158	GDP	AU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	ML	602	159	-	5/18/38/38	0/3/3/3
158	GDP	YO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	SO	501	159	-	5/18/38/38	0/3/3/3
160	GTP	ZT	602	159	-	5/18/38/38	0/3/3/3
158	GDP	CK	501	-	-	2/12/32/32	0/3/3/3
160	GTP	ZV	602	159	-	5/18/38/38	0/3/3/3
158	GDP	DA	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WT	501	-	-	2/12/32/32	0/3/3/3
158	GDP	XL	501	-	-	2/12/32/32	0/3/3/3
160	GTP	GC	602	159	-	5/18/38/38	0/3/3/3
158	GDP	FL	602	-	-	2/12/32/32	0/3/3/3
160	GTP	IK	602	159	-	5/18/38/38	0/3/3/3
158	GDP	AI	501	-	-	2/12/32/32	0/3/3/3
158	GDP	LS	501	-	-	2/12/32/32	0/3/3/3
160	GTP	LV	502	159	-	5/18/38/38	0/3/3/3
158	GDP	VR	501	-	-	2/12/32/32	0/3/3/3
160	GTP	VO	501	159	-	5/18/38/38	0/3/3/3
158	GDP	RN	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TI	501	159	-	5/18/38/38	0/3/3/3
160	GTP	DO	501	159	-	5/18/38/38	0/3/3/3
158	GDP	LI	501	-	-	2/12/32/32	0/3/3/3
160	GTP	UL	602	159	-	5/18/38/38	0/3/3/3
158	GDP	OE	501	-	-	2/12/32/32	0/3/3/3
158	GDP	DR	501	-	-	2/12/32/32	0/3/3/3
158	GDP	ZG	501	-	-	2/12/32/32	0/3/3/3
158	GDP	UC	501	-	-	2/12/32/32	0/3/3/3
160	GTP	WM	602	159	-	5/18/38/38	0/3/3/3
160	GTP	AJ	501	159	-	5/18/38/38	0/3/3/3
156	ATP	8f	4702	-	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	TP	501	-	-	2/12/32/32	0/3/3/3
158	GDP	UQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JK	501	-	-	2/12/32/32	0/3/3/3
158	GDP	BQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	DT	501	-	-	2/12/32/32	0/3/3/3
158	GDP	PX	501	-	-	2/12/32/32	0/3/3/3
158	GDP	DG	501	-	-	2/12/32/32	0/3/3/3
160	GTP	FA	602	159	-	5/18/38/38	0/3/3/3
158	GDP	GP	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RI	501	159	-	5/18/38/38	0/3/3/3
160	GTP	UW	602	159	-	5/18/38/38	0/3/3/3
158	GDP	CH	501	-	-	2/12/32/32	0/3/3/3
160	GTP	XY	501	159	-	5/18/38/38	0/3/3/3
158	GDP	WJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TA	602	159	-	5/18/38/38	0/3/3/3
158	GDP	AG	501	-	-	4/12/32/32	0/3/3/3
157	ADP	7a	4703	-	-	4/12/32/32	0/3/3/3
160	GTP	EI	501	159	-	5/18/38/38	0/3/3/3
160	GTP	FG	501	159	-	5/18/38/38	0/3/3/3
160	GTP	FW	602	159	-	5/18/38/38	0/3/3/3
160	GTP	XI	602	159	-	5/18/38/38	0/3/3/3
158	GDP	ZK	501	-	-	2/12/32/32	0/3/3/3
160	GTP	FO	602	159	-	5/18/38/38	0/3/3/3
158	GDP	NE	501	-	-	2/12/32/32	0/3/3/3
160	GTP	ZD	501	159	-	5/18/38/38	0/3/3/3
157	ADP	7f	4701	-	-	5/12/32/32	0/3/3/3
160	GTP	JL	501	159	-	6/18/38/38	0/3/3/3
158	GDP	YD	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RM	501	159	-	5/18/38/38	0/3/3/3
160	GTP	OP	501	159	-	5/18/38/38	0/3/3/3
158	GDP	SR	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NX	501	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	BK	501	-	-	2/12/32/32	0/3/3/3
160	GTP	QO	602	159	-	5/18/38/38	0/3/3/3
160	GTP	OV	501	159	-	5/18/38/38	0/3/3/3
160	GTP	LP	502	159	-	5/18/38/38	0/3/3/3
156	ATP	8f	4704	-	-	8/18/38/38	0/3/3/3
158	GDP	FR	501	-	-	2/12/32/32	0/3/3/3
160	GTP	QI	602	159	-	5/18/38/38	0/3/3/3
160	GTP	FY	501	159	-	5/18/38/38	0/3/3/3
160	GTP	GQ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	CL	501	159	-	5/18/38/38	0/3/3/3
160	GTP	PU	602	159	-	5/18/38/38	0/3/3/3
158	GDP	NA	501	-	-	2/12/32/32	0/3/3/3
160	GTP	SC	602	159	-	5/18/38/38	0/3/3/3
160	GTP	QY	501	159	-	5/18/38/38	0/3/3/3
160	GTP	MJ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	RS	501	159	-	5/18/38/38	0/3/3/3
160	GTP	YP	602	159	-	5/18/38/38	0/3/3/3
158	GDP	XJ	501	-	-	3/12/32/32	0/3/3/3
158	GDP	ZY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	EN	501	-	-	2/12/32/32	0/3/3/3
160	GTP	MD	502	159	-	5/18/38/38	0/3/3/3
158	GDP	MQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	YW	501	-	-	2/12/32/32	0/3/3/3
160	GTP	YC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	GH	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HU	602	159	-	5/18/38/38	0/3/3/3
160	GTP	QC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	JU	501	-	-	2/12/32/32	0/3/3/3
158	GDP	MA	501	-	-	2/12/32/32	0/3/3/3
156	ATP	7f	4702	-	-	7/18/38/38	0/3/3/3
158	GDP	NG	501	-	-	2/12/32/32	0/3/3/3
160	GTP	WS	501	159	-	5/18/38/38	0/3/3/3
160	GTP	WY	602	159	-	5/18/38/38	0/3/3/3
160	GTP	Ah	501	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	IA	501	159	-	5/18/38/38	0/3/3/3
158	GDP	FH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	PP	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TR	501	159	-	5/18/38/38	0/3/3/3
158	GDP	KC	501	-	-	2/12/32/32	0/3/3/3
158	GDP	GV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HO	501	159	-	5/18/38/38	0/3/3/3
158	GDP	Ag	501	-	-	2/12/32/32	0/3/3/3
160	GTP	DH	501	159	-	5/18/38/38	0/3/3/3
158	GDP	BA	501	-	-	2/12/32/32	0/3/3/3
158	GDP	MG	501	-	-	2/12/32/32	0/3/3/3
160	GTP	JN	501	159	-	5/18/38/38	0/3/3/3
160	GTP	MV	502	159	-	5/18/38/38	0/3/3/3
160	GTP	AD	501	159	-	5/18/38/38	0/3/3/3
158	GDP	BW	501	-	-	2/12/32/32	0/3/3/3
160	GTP	XO	602	159	-	5/18/38/38	0/3/3/3
158	GDP	MU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	SU	501	159	-	5/18/38/38	0/3/3/3
160	GTP	KB	501	159	-	5/18/38/38	0/3/3/3
160	GTP	VU	501	159	-	5/18/38/38	0/3/3/3
158	GDP	DP	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JB	501	-	-	2/12/32/32	0/3/3/3
160	GTP	KH	501	159	-	5/18/38/38	0/3/3/3
158	GDP	VZ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	IG	501	159	-	5/18/38/38	0/3/3/3
158	GDP	FD	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	YR	501	159	-	5/18/38/38	0/3/3/3
158	GDP	LK	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RW	501	159	-	5/18/38/38	0/3/3/3
158	GDP	DX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	IU	501	159	-	5/18/38/38	0/3/3/3
158	GDP	IB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SF	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
160	GTP	ZN	602	159	-	5/18/38/38	0/3/3/3
158	GDP	HX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	FM	501	159	-	5/18/38/38	0/3/3/3
160	GTP	QU	602	159	-	5/18/38/38	0/3/3/3
158	GDP	DZ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SP	501	-	-	2/12/32/32	0/3/3/3
160	GTP	WI	602	159	-	5/18/38/38	0/3/3/3
160	GTP	MN	502	159	-	5/18/38/38	0/3/3/3
158	GDP	UA	501	-	-	2/12/32/32	0/3/3/3
158	GDP	Ae	501	-	-	4/12/32/32	0/3/3/3
158	GDP	OK	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RE	501	159	-	5/18/38/38	0/3/3/3
160	GTP	VI	501	159	-	5/18/38/38	0/3/3/3
160	GTP	Aj	501	159	-	5/18/38/38	0/3/3/3
158	GDP	ID	501	-	-	2/12/32/32	0/3/3/3
156	ATP	7f	4704	-	-	4/18/38/38	0/3/3/3
160	GTP	ZH	501	159	-	5/18/38/38	0/3/3/3
158	GDP	OU	501	-	-	2/12/32/32	0/3/3/3
158	GDP	LO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	IQ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	ZO	501	-	-	2/12/32/32	0/3/3/3
158	GDP	QR	501	-	-	2/12/32/32	0/3/3/3
158	GDP	WB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	VD	501	-	-	2/12/32/32	0/3/3/3
160	GTP	QM	501	159	-	5/18/38/38	0/3/3/3
160	GTP	OF	501	159	-	5/18/38/38	0/3/3/3
160	GTP	DJ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	JH	602	159	-	5/18/38/38	0/3/3/3
158	GDP	DK	501	-	-	2/12/32/32	0/3/3/3
158	GDP	NK	501	-	-	2/12/32/32	0/3/3/3
158	GDP	PR	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RP	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NJ	503	159	-	5/18/38/38	0/3/3/3
160	GTP	XC	602	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	WL	501	-	-	2/12/32/32	0/3/3/3
160	GTP	Af	501	159	-	5/18/38/38	0/3/3/3
158	GDP	PD	501	-	-	2/12/32/32	0/3/3/3
160	GTP	AB	602	159	-	5/18/38/38	0/3/3/3
160	GTP	AP	602	159	-	5/18/38/38	0/3/3/3
160	GTP	CN	602	159	-	5/18/38/38	0/3/3/3
160	GTP	EY	501	159	-	5/18/38/38	0/3/3/3
158	GDP	OG	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BL	501	159	-	5/18/38/38	0/3/3/3
160	GTP	OL	602	159	-	5/18/38/38	0/3/3/3
160	GTP	PY	602	159	-	5/18/38/38	0/3/3/3
160	GTP	IO	501	159	-	3/18/38/38	0/3/3/3
160	GTP	WC	501	159	-	5/18/38/38	0/3/3/3
158	GDP	OA	501	-	-	2/12/32/32	0/3/3/3
160	GTP	BH	602	159	-	5/18/38/38	0/3/3/3
160	GTP	OZ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	GN	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	CM	501	-	-	2/12/32/32	0/3/3/3
158	GDP	IR	501	-	-	2/12/32/32	0/3/3/3
156	ATP	7a	4701	-	-	5/18/38/38	0/3/3/3
158	GDP	YS	501	-	-	2/12/32/32	0/3/3/3
160	GTP	MH	501	159	-	5/18/38/38	0/3/3/3
160	GTP	EG	501	159	-	5/18/38/38	0/3/3/3
160	GTP	PO	602	159	-	5/18/38/38	0/3/3/3
160	GTP	WU	501	159	-	5/18/38/38	0/3/3/3
160	GTP	OT	602	159	-	5/18/38/38	0/3/3/3
160	GTP	XU	501	159	-	5/18/38/38	0/3/3/3
160	GTP	QS	501	159	-	5/18/38/38	0/3/3/3
158	GDP	JM	501	-	-	2/12/32/32	0/3/3/3
160	GTP	NB	501	159	-	5/18/38/38	0/3/3/3
158	GDP	UE	501	-	-	2/12/32/32	0/3/3/3
158	GDP	IL	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	XP	501	-	-	2/12/32/32	0/3/3/3
158	GDP	ZQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	TY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	GJ	501	-	-	2/12/32/32	0/3/3/3
160	GTP	TO	501	159	-	5/18/38/38	0/3/3/3
158	GDP	XV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HG	501	159	-	5/18/38/38	0/3/3/3
160	GTP	KJ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	PM	602	159	-	5/18/38/38	0/3/3/3
158	GDP	CA	501	-	-	2/12/32/32	0/3/3/3
158	GDP	QD	501	-	-	2/12/32/32	0/3/3/3
160	GTP	CF	501	159	-	5/18/38/38	0/3/3/3
158	GDP	AA	501	-	-	2/12/32/32	0/3/3/3
156	ATP	9e	5003	-	-	5/18/38/38	0/3/3/3
158	GDP	EB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	LE	501	-	-	2/12/32/32	0/3/3/3
158	GDP	QF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	NM	501	-	-	2/12/32/32	0/3/3/3
156	ATP	9f	4701	-	-	9/18/38/38	0/3/3/3
160	GTP	SI	501	159	-	5/18/38/38	0/3/3/3
160	GTP	SE	501	159	-	5/18/38/38	0/3/3/3
158	GDP	AY	501	-	-	2/12/32/32	0/3/3/3
158	GDP	ED	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JW	501	-	-	2/12/32/32	0/3/3/3
158	GDP	QX	501	-	-	2/12/32/32	0/3/3/3
158	GDP	JG	501	-	-	2/12/32/32	0/3/3/3
158	GDP	OM	501	-	-	2/12/32/32	0/3/3/3
158	GDP	RX	501	-	-	2/12/32/32	0/3/3/3
160	GTP	RA	602	159	-	5/18/38/38	0/3/3/3
158	GDP	YU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	YJ	602	159	-	5/18/38/38	0/3/3/3
158	GDP	SL	501	-	-	2/12/32/32	0/3/3/3
160	GTP	YN	501	159	-	5/18/38/38	0/3/3/3
160	GTP	KR	602	159	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	CU	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HK	501	159	-	5/18/38/38	0/3/3/3
158	GDP	ZI	501	-	-	2/12/32/32	0/3/3/3
160	GTP	MF	602	159	-	5/18/38/38	0/3/3/3
160	GTP	EM	501	159	-	5/18/38/38	0/3/3/3
160	GTP	ZB	501	159	-	5/18/38/38	0/3/3/3
160	GTP	BN	602	159	-	5/18/38/38	0/3/3/3
160	GTP	DF	501	159	-	5/18/38/38	0/3/3/3
158	GDP	BO	501	-	-	2/12/32/32	0/3/3/3
160	GTP	HM	602	159	-	5/18/38/38	0/3/3/3
160	GTP	LL	501	159	-	5/18/38/38	0/3/3/3
158	GDP	VF	501	-	-	2/12/32/32	0/3/3/3
158	GDP	XH	501	-	-	2/12/32/32	0/3/3/3
158	GDP	GR	501	-	-	2/12/32/32	0/3/3/3
160	GTP	QE	501	159	-	5/18/38/38	0/3/3/3
160	GTP	QW	501	159	-	5/18/38/38	0/3/3/3
160	GTP	WQ	602	159	-	5/18/38/38	0/3/3/3
160	GTP	TV	501	159	-	5/18/38/38	0/3/3/3
160	GTP	EO	501	159	-	5/18/38/38	0/3/3/3
158	GDP	RH	501	-	-	2/12/32/32	0/3/3/3
160	GTP	OH	501	159	-	5/18/38/38	0/3/3/3
158	GDP	YQ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	TJ	501	-	-	2/12/32/32	0/3/3/3
158	GDP	UI	501	-	-	2/12/32/32	0/3/3/3
160	GTP	DQ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	SS	602	159	-	2/18/38/38	0/3/3/3
158	GDP	QB	501	-	-	2/12/32/32	0/3/3/3
158	GDP	DI	501	-	-	2/12/32/32	0/3/3/3
158	GDP	SV	501	-	-	2/12/32/32	0/3/3/3
160	GTP	ZF	602	159	-	5/18/38/38	0/3/3/3
160	GTP	VQ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	MT	501	159	-	5/18/38/38	0/3/3/3
160	GTP	BZ	501	159	-	5/18/38/38	0/3/3/3
158	GDP	GB	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
158	GDP	TW	501	-	-	2/12/32/32	0/3/3/3
160	GTP	UH	501	159	-	5/18/38/38	0/3/3/3
160	GTP	PC	602	159	-	5/18/38/38	0/3/3/3
160	GTP	EU	501	159	-	5/18/38/38	0/3/3/3
160	GTP	PQ	501	159	-	5/18/38/38	0/3/3/3
160	GTP	UB	501	159	-	5/18/38/38	0/3/3/3
158	GDP	TD	501	-	-	2/12/32/32	0/3/3/3
158	GDP	ZA	501	-	-	2/12/32/32	0/3/3/3
160	GTP	CP	602	159	-	5/18/38/38	0/3/3/3
160	GTP	JR	602	159	-	5/18/38/38	0/3/3/3
160	GTP	SA	501	159	-	4/18/38/38	0/3/3/3

All (794) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	EC	501	GTP	C5-C6	-4.59	1.38	1.47
160	JP	602	GTP	C5-C6	-4.55	1.38	1.47
160	WA	602	GTP	C5-C6	-4.52	1.38	1.47
160	IE	501	GTP	C5-C6	-4.52	1.38	1.47
160	JR	602	GTP	C5-C6	-4.51	1.38	1.47
160	DU	501	GTP	C5-C6	-4.50	1.38	1.47
160	FI	602	GTP	C5-C6	-4.50	1.38	1.47
160	WE	602	GTP	C5-C6	-4.46	1.38	1.47
160	DS	602	GTP	C5-C6	-4.45	1.38	1.47
160	JV	501	GTP	C5-C6	-4.45	1.38	1.47
160	JH	602	GTP	C5-C6	-4.45	1.38	1.47
160	IG	501	GTP	C5-C6	-4.45	1.38	1.47
160	IQ	501	GTP	C5-C6	-4.44	1.38	1.47
160	FG	501	GTP	C5-C6	-4.44	1.38	1.47
160	BN	602	GTP	C5-C6	-4.44	1.38	1.47
160	DO	501	GTP	C5-C6	-4.44	1.38	1.47
160	JJ	501	GTP	C5-C6	-4.40	1.38	1.47
160	IU	501	GTP	C5-C6	-4.39	1.38	1.47
160	KZ	602	GTP	C5-C6	-4.38	1.38	1.47
160	CL	501	GTP	C5-C6	-4.37	1.38	1.47
160	ES	501	GTP	C5-C6	-4.37	1.38	1.47
160	CX	602	GTP	C5-C6	-4.37	1.38	1.47
160	Ad	602	GTP	C5-C6	-4.36	1.38	1.47
160	PC	602	GTP	C5-C6	-4.36	1.38	1.47
160	XE	501	GTP	C5-C6	-4.35	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	CV	501	GTP	C5-C6	-4.35	1.38	1.47
160	CT	602	GTP	C5-C6	-4.35	1.38	1.47
160	DW	602	GTP	C5-C6	-4.34	1.38	1.47
160	BH	602	GTP	C5-C6	-4.34	1.38	1.47
160	JX	501	GTP	C5-C6	-4.32	1.38	1.47
160	HE	602	GTP	C5-C6	-4.32	1.38	1.47
160	BR	501	GTP	C5-C6	-4.30	1.38	1.47
160	GA	602	GTP	C5-C6	-4.30	1.38	1.47
160	XS	501	GTP	C5-C6	-4.30	1.38	1.47
160	QI	602	GTP	C5-C6	-4.29	1.39	1.47
160	FW	602	GTP	C5-C6	-4.29	1.39	1.47
160	XO	602	GTP	C5-C6	-4.29	1.39	1.47
160	FY	501	GTP	C5-C6	-4.28	1.39	1.47
160	IK	602	GTP	C5-C6	-4.27	1.39	1.47
160	BF	602	GTP	C5-C6	-4.26	1.39	1.47
160	AB	602	GTP	C5-C6	-4.24	1.39	1.47
160	HA	501	GTP	C5-C6	-4.17	1.39	1.47
160	AD	501	GTP	C5-C6	-4.15	1.39	1.47
160	HC	602	GTP	C5-C6	-4.10	1.39	1.47
156	8f	4703	ATP	PB-O3B	-3.64	1.55	1.59
158	ED	501	GDP	C6-N1	-3.47	1.32	1.37
160	UL	602	GTP	C5-C6	-3.42	1.40	1.47
160	FS	602	GTP	C5-C6	-3.40	1.40	1.47
160	UD	501	GTP	C5-C6	-3.39	1.40	1.47
160	LN	501	GTP	C5-C6	-3.38	1.40	1.47
160	TR	501	GTP	C5-C6	-3.37	1.40	1.47
160	FA	602	GTP	C5-C6	-3.36	1.40	1.47
160	CB	501	GTP	C5-C6	-3.35	1.40	1.47
160	ZB	501	GTP	C5-C6	-3.35	1.40	1.47
160	VA	501	GTP	C5-C6	-3.35	1.40	1.47
160	JN	501	GTP	C5-C6	-3.34	1.40	1.47
160	VK	501	GTP	C5-C6	-3.34	1.40	1.47
160	TZ	602	GTP	C5-C6	-3.34	1.40	1.47
160	VY	501	GTP	C5-C6	-3.34	1.40	1.47
160	UH	501	GTP	C5-C6	-3.33	1.40	1.47
160	TV	501	GTP	C5-C6	-3.33	1.40	1.47
160	TC	501	GTP	C5-C6	-3.33	1.40	1.47
160	VQ	501	GTP	C5-C6	-3.33	1.40	1.47
160	FM	501	GTP	C5-C6	-3.33	1.40	1.47
160	NN	501	GTP	C5-C6	-3.33	1.40	1.47
160	JC	501	GTP	C5-C6	-3.33	1.40	1.47
160	UT	501	GTP	C5-C6	-3.32	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	UB	501	GTP	C5-C6	-3.32	1.40	1.47
160	JA	501	GTP	C5-C6	-3.32	1.40	1.47
160	SQ	602	GTP	C5-C6	-3.32	1.40	1.47
160	TO	501	GTP	C5-C6	-3.32	1.40	1.47
160	KT	501	GTP	C5-C6	-3.31	1.40	1.47
160	TI	501	GTP	C5-C6	-3.31	1.40	1.47
160	VM	602	GTP	C5-C6	-3.31	1.40	1.47
160	UN	602	GTP	C5-C6	-3.31	1.40	1.47
160	AH	501	GTP	C5-C6	-3.30	1.40	1.47
160	JE	501	GTP	C5-C6	-3.30	1.40	1.47
160	DQ	501	GTP	C5-C6	-3.30	1.40	1.47
160	KP	602	GTP	C5-C6	-3.30	1.40	1.47
160	BP	501	GTP	C5-C6	-3.30	1.40	1.47
160	BZ	501	GTP	C5-C6	-3.30	1.40	1.47
160	JZ	501	GTP	C5-C6	-3.30	1.40	1.47
160	EU	501	GTP	C5-C6	-3.30	1.40	1.47
160	UR	501	GTP	C5-C6	-3.29	1.40	1.47
160	UP	501	GTP	C5-C6	-3.29	1.40	1.47
160	TT	602	GTP	C5-C6	-3.29	1.40	1.47
160	IS	501	GTP	C5-C6	-3.29	1.40	1.47
160	NF	502	GTP	C5-C6	-3.29	1.40	1.47
160	EO	501	GTP	C5-C6	-3.29	1.40	1.47
160	FO	602	GTP	C5-C6	-3.29	1.40	1.47
160	KL	602	GTP	C5-C6	-3.29	1.40	1.47
160	ZL	602	GTP	C5-C6	-3.29	1.40	1.47
160	WQ	602	GTP	C5-C6	-3.29	1.40	1.47
160	KD	501	GTP	C5-C6	-3.28	1.40	1.47
160	KX	501	GTP	C5-C6	-3.28	1.40	1.47
160	HG	501	GTP	C5-C6	-3.28	1.41	1.47
160	GG	501	GTP	C5-C6	-3.28	1.41	1.47
160	TQ	602	GTP	C5-C6	-3.28	1.41	1.47
160	TE	501	GTP	C5-C6	-3.28	1.41	1.47
160	LB	501	GTP	C5-C6	-3.28	1.41	1.47
160	EE	501	GTP	C5-C6	-3.28	1.41	1.47
160	Ap	501	GTP	C5-C6	-3.27	1.41	1.47
160	OP	501	GTP	C5-C6	-3.27	1.41	1.47
160	AR	602	GTP	C5-C6	-3.27	1.41	1.47
160	YR	501	GTP	C5-C6	-3.27	1.41	1.47
160	WU	501	GTP	C5-C6	-3.27	1.41	1.47
160	EQ	602	GTP	C5-C6	-3.27	1.41	1.47
160	AX	501	GTP	C5-C6	-3.27	1.41	1.47
160	HW	501	GTP	C5-C6	-3.27	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	MX	502	GTP	C5-C6	-3.27	1.41	1.47
160	XW	602	GTP	C5-C6	-3.26	1.41	1.47
160	ZD	501	GTP	C5-C6	-3.26	1.41	1.47
160	EI	501	GTP	C5-C6	-3.26	1.41	1.47
160	XC	602	GTP	C5-C6	-3.26	1.41	1.47
160	QW	501	GTP	C5-C6	-3.26	1.41	1.47
160	WY	602	GTP	C5-C6	-3.26	1.41	1.47
160	OR	602	GTP	C5-C6	-3.26	1.41	1.47
160	FE	501	GTP	C5-C6	-3.26	1.41	1.47
160	JT	501	GTP	C5-C6	-3.26	1.41	1.47
160	ZR	602	GTP	C5-C6	-3.26	1.41	1.47
160	YT	602	GTP	C5-C6	-3.26	1.41	1.47
160	EG	501	GTP	C5-C6	-3.25	1.41	1.47
160	BX	602	GTP	C5-C6	-3.25	1.41	1.47
160	TG	501	GTP	C5-C6	-3.25	1.41	1.47
160	HS	501	GTP	C5-C6	-3.25	1.41	1.47
160	HQ	602	GTP	C5-C6	-3.25	1.41	1.47
160	WO	501	GTP	C5-C6	-3.25	1.41	1.47
160	LF	602	GTP	C5-C6	-3.25	1.41	1.47
160	RG	501	GTP	C5-C6	-3.25	1.41	1.47
160	VI	501	GTP	C5-C6	-3.25	1.41	1.47
160	AT	501	GTP	C5-C6	-3.25	1.41	1.47
160	SY	602	GTP	C5-C6	-3.25	1.41	1.47
160	BL	501	GTP	C5-C6	-3.24	1.41	1.47
160	XI	602	GTP	C5-C6	-3.24	1.41	1.47
160	OT	602	GTP	C5-C6	-3.24	1.41	1.47
160	VW	501	GTP	C5-C6	-3.24	1.41	1.47
160	ZZ	501	GTP	C5-C6	-3.24	1.41	1.47
160	FQ	501	GTP	C5-C6	-3.24	1.41	1.47
160	UF	501	GTP	C5-C6	-3.24	1.41	1.47
160	NT	602	GTP	C5-C6	-3.24	1.41	1.47
160	YV	602	GTP	C5-C6	-3.24	1.41	1.47
160	CI	501	GTP	C5-C6	-3.24	1.41	1.47
160	QA	602	GTP	C5-C6	-3.24	1.41	1.47
160	KF	602	GTP	C5-C6	-3.24	1.41	1.47
160	KB	501	GTP	C5-C6	-3.24	1.41	1.47
160	XK	501	GTP	C5-C6	-3.24	1.41	1.47
160	NB	501	GTP	C5-C6	-3.23	1.41	1.47
160	CF	501	GTP	C5-C6	-3.23	1.41	1.47
160	PO	602	GTP	C5-C6	-3.23	1.41	1.47
160	SO	501	GTP	C5-C6	-3.23	1.41	1.47
160	DB	501	GTP	C5-C6	-3.23	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	QU	602	GTP	C5-C6	-3.23	1.41	1.47
160	BV	602	GTP	C5-C6	-3.23	1.41	1.47
160	YL	602	GTP	C5-C6	-3.23	1.41	1.47
160	QK	602	GTP	C5-C6	-3.23	1.41	1.47
160	RU	501	GTP	C5-C6	-3.23	1.41	1.47
160	AZ	501	GTP	C5-C6	-3.23	1.41	1.47
160	OL	602	GTP	C5-C6	-3.23	1.41	1.47
160	GE	602	GTP	C5-C6	-3.23	1.41	1.47
160	YJ	602	GTP	C5-C6	-3.22	1.41	1.47
160	UW	602	GTP	C5-C6	-3.22	1.41	1.47
160	OB	501	GTP	C5-C6	-3.22	1.41	1.47
160	HK	501	GTP	C5-C6	-3.22	1.41	1.47
160	DY	501	GTP	C5-C6	-3.22	1.41	1.47
160	TK	501	GTP	C5-C6	-3.22	1.41	1.47
160	RI	501	GTP	C5-C6	-3.22	1.41	1.47
160	WM	602	GTP	C5-C6	-3.22	1.41	1.47
160	BT	602	GTP	C5-C6	-3.22	1.41	1.47
160	GK	602	GTP	C5-C6	-3.22	1.41	1.47
160	GS	602	GTP	C5-C6	-3.22	1.41	1.47
160	OF	501	GTP	C5-C6	-3.22	1.41	1.47
160	NR	502	GTP	C5-C6	-3.22	1.41	1.47
160	QC	501	GTP	C5-C6	-3.22	1.41	1.47
160	YZ	602	GTP	C5-C6	-3.22	1.41	1.47
160	NV	503	GTP	C5-C6	-3.21	1.41	1.47
160	DJ	501	GTP	C5-C6	-3.21	1.41	1.47
160	SC	602	GTP	C5-C6	-3.21	1.41	1.47
160	YN	501	GTP	C5-C6	-3.21	1.41	1.47
160	Ab	501	GTP	C5-C6	-3.21	1.41	1.47
160	VS	501	GTP	C5-C6	-3.21	1.41	1.47
160	YG	602	GTP	C5-C6	-3.21	1.41	1.47
160	MT	501	GTP	C5-C6	-3.21	1.41	1.47
160	SG	501	GTP	C5-C6	-3.21	1.41	1.47
160	HU	602	GTP	C5-C6	-3.21	1.41	1.47
160	ZH	501	GTP	C5-C6	-3.21	1.41	1.47
160	EK	602	GTP	C5-C6	-3.21	1.41	1.47
160	KH	501	GTP	C5-C6	-3.21	1.41	1.47
160	LJ	501	GTP	C5-C6	-3.21	1.41	1.47
160	Ah	501	GTP	C5-C6	-3.20	1.41	1.47
160	OH	501	GTP	C5-C6	-3.20	1.41	1.47
160	PQ	501	GTP	C5-C6	-3.20	1.41	1.47
160	EA	501	GTP	C5-C6	-3.20	1.41	1.47
160	OV	501	GTP	C5-C6	-3.20	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	CJ	501	GTP	C5-C6	-3.20	1.41	1.47
160	EM	501	GTP	C5-C6	-3.20	1.41	1.47
160	MB	502	GTP	C5-C6	-3.20	1.41	1.47
160	TM	501	GTP	C5-C6	-3.20	1.41	1.47
160	AF	501	GTP	C5-C6	-3.20	1.41	1.47
160	Af	501	GTP	C5-C6	-3.20	1.41	1.47
160	NP	501	GTP	C5-C6	-3.20	1.41	1.47
160	ON	501	GTP	C5-C6	-3.20	1.41	1.47
160	WW	501	GTP	C5-C6	-3.20	1.41	1.47
160	ZP	501	GTP	C5-C6	-3.20	1.41	1.47
160	CD	602	GTP	C5-C6	-3.20	1.41	1.47
160	SU	501	GTP	C5-C6	-3.20	1.41	1.47
160	YX	602	GTP	C5-C6	-3.20	1.41	1.47
160	ZF	602	GTP	C5-C6	-3.20	1.41	1.47
160	GM	501	GTP	C5-C6	-3.20	1.41	1.47
160	KJ	602	GTP	C5-C6	-3.19	1.41	1.47
160	BD	602	GTP	C5-C6	-3.19	1.41	1.47
160	ND	501	GTP	C5-C6	-3.19	1.41	1.47
160	PW	501	GTP	C5-C6	-3.19	1.41	1.47
160	MD	502	GTP	C5-C6	-3.19	1.41	1.47
160	UY	602	GTP	C5-C6	-3.19	1.41	1.47
160	VU	501	GTP	C5-C6	-3.19	1.41	1.47
160	DH	501	GTP	C5-C6	-3.19	1.41	1.47
160	KR	602	GTP	C5-C6	-3.19	1.41	1.47
160	PI	602	GTP	C5-C6	-3.19	1.41	1.47
160	VE	501	GTP	C5-C6	-3.19	1.41	1.47
160	OD	602	GTP	C5-C6	-3.19	1.41	1.47
160	QY	501	GTP	C5-C6	-3.19	1.41	1.47
160	CP	602	GTP	C5-C6	-3.19	1.41	1.47
160	LD	602	GTP	C5-C6	-3.19	1.41	1.47
160	RA	602	GTP	C5-C6	-3.19	1.41	1.47
160	WI	602	GTP	C5-C6	-3.18	1.41	1.47
160	PS	501	GTP	C5-C6	-3.18	1.41	1.47
160	PY	602	GTP	C5-C6	-3.18	1.41	1.47
160	ZJ	501	GTP	C5-C6	-3.18	1.41	1.47
160	EY	501	GTP	C5-C6	-3.18	1.41	1.47
160	KV	602	GTP	C5-C6	-3.18	1.41	1.47
160	An	602	GTP	C5-C6	-3.18	1.41	1.47
160	CR	501	GTP	C5-C6	-3.18	1.41	1.47
160	SW	501	GTP	C5-C6	-3.18	1.41	1.47
160	ZV	602	GTP	C5-C6	-3.18	1.41	1.47
160	GQ	602	GTP	C5-C6	-3.18	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	OX	602	GTP	C5-C6	-3.18	1.41	1.47
160	ZN	602	GTP	C5-C6	-3.17	1.41	1.47
160	NZ	602	GTP	C5-C6	-3.17	1.41	1.47
160	PU	602	GTP	C5-C6	-3.17	1.41	1.47
160	DM	501	GTP	C5-C6	-3.17	1.41	1.47
160	GI	501	GTP	C5-C6	-3.17	1.41	1.47
160	AN	501	GTP	C5-C6	-3.17	1.41	1.47
160	FK	501	GTP	C5-C6	-3.17	1.41	1.47
160	QM	501	GTP	C5-C6	-3.17	1.41	1.47
160	MF	602	GTP	C5-C6	-3.17	1.41	1.47
160	OZ	501	GTP	C5-C6	-3.17	1.41	1.47
160	RW	501	GTP	C5-C6	-3.17	1.41	1.47
160	OJ	602	GTP	C5-C6	-3.17	1.41	1.47
160	MV	502	GTP	C5-C6	-3.17	1.41	1.47
160	CN	602	GTP	C5-C6	-3.16	1.41	1.47
160	QQ	501	GTP	C5-C6	-3.16	1.41	1.47
160	AV	501	GTP	C5-C6	-3.16	1.41	1.47
160	IW	501	GTP	C5-C6	-3.16	1.41	1.47
160	DF	501	GTP	C5-C6	-3.16	1.41	1.47
160	CZ	501	GTP	C5-C6	-3.16	1.41	1.47
160	ML	602	GTP	C5-C6	-3.16	1.41	1.47
160	QS	501	GTP	C5-C6	-3.16	1.41	1.47
160	BB	501	GTP	C5-C6	-3.16	1.41	1.47
160	GW	501	GTP	C5-C6	-3.15	1.41	1.47
160	MN	502	GTP	C5-C6	-3.15	1.41	1.47
160	PM	602	GTP	C5-C6	-3.15	1.41	1.47
160	MZ	602	GTP	C5-C6	-3.15	1.41	1.47
160	YP	602	GTP	C5-C6	-3.15	1.41	1.47
160	DD	501	GTP	C5-C6	-3.15	1.41	1.47
160	GU	602	GTP	C5-C6	-3.15	1.41	1.47
160	XU	501	GTP	C5-C6	-3.15	1.41	1.47
160	LX	501	GTP	C5-C6	-3.15	1.41	1.47
160	QO	602	GTP	C5-C6	-3.15	1.41	1.47
160	TA	602	GTP	C5-C6	-3.15	1.41	1.47
160	LR	501	GTP	C5-C6	-3.15	1.41	1.47
160	XG	602	GTP	C5-C6	-3.14	1.41	1.47
160	GO	501	GTP	C5-C6	-3.14	1.41	1.47
160	DL	501	GTP	C5-C6	-3.14	1.41	1.47
160	QG	602	GTP	C5-C6	-3.14	1.41	1.47
160	FC	501	GTP	C5-C6	-3.14	1.41	1.47
160	HI	602	GTP	C5-C6	-3.14	1.41	1.47
160	LZ	501	GTP	C5-C6	-3.14	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	NH	502	GTP	C5-C6	-3.14	1.41	1.47
160	BJ	602	GTP	C5-C6	-3.14	1.41	1.47
160	RE	501	GTP	C5-C6	-3.14	1.41	1.47
160	YC	501	GTP	C5-C6	-3.14	1.41	1.47
160	LP	502	GTP	C5-C6	-3.14	1.41	1.47
160	LV	502	GTP	C5-C6	-3.14	1.41	1.47
160	XQ	501	GTP	C5-C6	-3.14	1.41	1.47
160	AI	602	GTP	C5-C6	-3.14	1.41	1.47
160	PK	501	GTP	C5-C6	-3.13	1.41	1.47
160	MP	501	GTP	C5-C6	-3.13	1.41	1.47
160	LT	602	GTP	C5-C6	-3.13	1.41	1.47
160	NX	501	GTP	C5-C6	-3.13	1.41	1.47
160	XA	501	GTP	C5-C6	-3.13	1.41	1.47
160	SM	501	GTP	C5-C6	-3.13	1.41	1.47
160	NJ	503	GTP	C5-C6	-3.13	1.41	1.47
160	AJ	501	GTP	C5-C6	-3.13	1.41	1.47
160	NL	602	GTP	C5-C6	-3.13	1.41	1.47
160	AL	602	GTP	C5-C6	-3.12	1.41	1.47
160	SI	501	GTP	C5-C6	-3.12	1.41	1.47
160	VG	501	GTP	C5-C6	-3.12	1.41	1.47
160	MH	501	GTP	C5-C6	-3.12	1.41	1.47
160	QE	501	GTP	C5-C6	-3.12	1.41	1.47
160	HO	501	GTP	C5-C6	-3.12	1.41	1.47
160	HM	602	GTP	C5-C6	-3.12	1.41	1.47
160	MR	602	GTP	C5-C6	-3.12	1.41	1.47
160	PE	602	GTP	C5-C6	-3.12	1.41	1.47
160	AP	602	GTP	C5-C6	-3.12	1.41	1.47
160	ZT	602	GTP	C5-C6	-3.11	1.41	1.47
160	RC	501	GTP	C5-C6	-3.11	1.41	1.47
160	MJ	602	GTP	C5-C6	-3.11	1.41	1.47
160	WC	501	GTP	C5-C6	-3.11	1.41	1.47
160	RY	602	GTP	C5-C6	-3.11	1.41	1.47
160	KN	602	GTP	C5-C6	-3.10	1.41	1.47
160	IM	602	GTP	C5-C6	-3.10	1.41	1.47
160	SE	501	GTP	C5-C6	-3.10	1.41	1.47
160	PG	501	GTP	C5-C6	-3.10	1.41	1.47
160	IA	501	GTP	C5-C6	-3.10	1.41	1.47
160	ZX	501	GTP	C5-C6	-3.10	1.41	1.47
160	YE	602	GTP	C5-C6	-3.10	1.41	1.47
160	LL	501	GTP	C5-C6	-3.09	1.41	1.47
160	Aj	501	GTP	C5-C6	-3.09	1.41	1.47
160	RK	602	GTP	C5-C6	-3.09	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	RS	501	GTP	C5-C6	-3.09	1.41	1.47
160	RQ	501	GTP	C5-C6	-3.09	1.41	1.47
160	LH	501	GTP	C5-C6	-3.09	1.41	1.47
160	RO	602	GTP	C5-C6	-3.09	1.41	1.47
160	GC	602	GTP	C5-C6	-3.09	1.41	1.47
160	IY	501	GTP	C5-C6	-3.08	1.41	1.47
160	YA	602	GTP	C5-C6	-3.08	1.41	1.47
160	RM	501	GTP	C5-C6	-3.07	1.41	1.47
160	HY	501	GTP	C5-C6	-3.05	1.41	1.47
160	WK	602	GTP	C5-C6	-3.05	1.41	1.47
160	SK	602	GTP	C5-C6	-3.05	1.41	1.47
160	UJ	501	GTP	C8-N7	-2.94	1.30	1.34
160	VC	501	GTP	PA-O3A	-2.93	1.56	1.59
158	FH	501	GDP	C6-N1	-2.91	1.33	1.37
160	LJ	501	GTP	C5-C4	-2.85	1.36	1.43
160	SA	501	GTP	C8-N7	-2.85	1.30	1.34
160	FS	602	GTP	C5-C4	-2.83	1.36	1.43
160	FO	602	GTP	C5-C4	-2.83	1.36	1.43
160	TX	602	GTP	C8-N7	-2.83	1.30	1.34
160	EQ	602	GTP	C5-C4	-2.83	1.36	1.43
160	WG	501	GTP	PA-O3A	-2.82	1.56	1.59
160	EK	602	GTP	C5-C4	-2.81	1.36	1.43
160	FQ	501	GTP	C5-C4	-2.81	1.36	1.43
160	KL	602	GTP	C5-C4	-2.81	1.36	1.43
160	OH	501	GTP	C5-C4	-2.81	1.36	1.43
160	EU	501	GTP	C5-C4	-2.81	1.36	1.43
160	FA	602	GTP	C5-C4	-2.80	1.36	1.43
160	UJ	501	GTP	PA-O3A	-2.80	1.56	1.59
160	LR	501	GTP	C5-C4	-2.80	1.36	1.43
160	OR	602	GTP	C5-C4	-2.79	1.36	1.43
160	KN	602	GTP	C5-C4	-2.79	1.36	1.43
160	TV	501	GTP	C5-C4	-2.79	1.36	1.43
160	SI	501	GTP	C5-C4	-2.79	1.36	1.43
160	OT	602	GTP	C5-C4	-2.79	1.36	1.43
160	OP	501	GTP	C5-C4	-2.79	1.36	1.43
160	FC	501	GTP	C5-C4	-2.79	1.36	1.43
160	LP	502	GTP	C5-C4	-2.78	1.36	1.43
160	DQ	501	GTP	C5-C4	-2.78	1.36	1.43
160	XY	501	GTP	C5-C6	-2.78	1.41	1.47
160	LL	501	GTP	C5-C4	-2.78	1.36	1.43
160	AH	501	GTP	C5-C4	-2.78	1.36	1.43
160	DM	501	GTP	C5-C4	-2.78	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	OJ	602	GTP	C5-C4	-2.78	1.36	1.43
160	TE	501	GTP	C5-C4	-2.77	1.36	1.43
160	EY	501	GTP	C5-C4	-2.77	1.36	1.43
160	EO	501	GTP	C5-C4	-2.77	1.36	1.43
160	FM	501	GTP	C5-C4	-2.77	1.36	1.43
160	VQ	501	GTP	C5-C4	-2.77	1.36	1.43
160	RW	501	GTP	C5-C4	-2.76	1.36	1.43
160	EM	501	GTP	C5-C4	-2.76	1.36	1.43
160	LF	602	GTP	C5-C4	-2.76	1.36	1.43
160	OB	501	GTP	C5-C4	-2.76	1.36	1.43
160	RU	501	GTP	C5-C4	-2.76	1.36	1.43
160	KX	501	GTP	C5-C4	-2.76	1.36	1.43
160	MN	502	GTP	C5-C4	-2.76	1.36	1.43
160	JT	501	GTP	C5-C4	-2.76	1.36	1.43
160	YV	602	GTP	C5-C4	-2.75	1.36	1.43
160	VG	501	GTP	C5-C4	-2.75	1.36	1.43
160	SY	602	GTP	C5-C4	-2.75	1.36	1.43
160	BX	602	GTP	C5-C4	-2.75	1.36	1.43
160	NX	501	GTP	C5-C4	-2.75	1.36	1.43
160	MD	502	GTP	C5-C4	-2.75	1.36	1.43
160	UY	602	GTP	C5-C4	-2.75	1.36	1.43
160	CZ	501	GTP	C5-C4	-2.75	1.36	1.43
160	MP	501	GTP	C5-C4	-2.75	1.36	1.43
160	OF	501	GTP	C5-C4	-2.75	1.36	1.43
160	MZ	602	GTP	C5-C4	-2.75	1.36	1.43
160	KT	501	GTP	C5-C4	-2.74	1.36	1.43
160	MB	502	GTP	C5-C4	-2.74	1.36	1.43
160	JC	501	GTP	C5-C4	-2.74	1.36	1.43
158	HB	501	GDP	C5-C6	-2.74	1.42	1.47
160	TQ	602	GTP	C5-C4	-2.74	1.36	1.43
160	RS	501	GTP	C5-C4	-2.74	1.36	1.43
160	UD	501	GTP	C5-C4	-2.74	1.36	1.43
160	UR	501	GTP	C5-C4	-2.74	1.36	1.43
160	VU	501	GTP	C5-C4	-2.74	1.36	1.43
160	GM	501	GTP	C5-C4	-2.74	1.36	1.43
160	TG	501	GTP	C5-C4	-2.74	1.36	1.43
160	GS	602	GTP	C5-C4	-2.74	1.36	1.43
160	XM	602	GTP	C5-C6	-2.74	1.42	1.47
160	CN	602	GTP	C5-C4	-2.74	1.36	1.43
160	EI	501	GTP	C5-C4	-2.74	1.36	1.43
160	YL	602	GTP	C5-C4	-2.74	1.36	1.43
160	YE	602	GTP	C5-C4	-2.74	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	GU	602	GTP	C5-C4	-2.74	1.36	1.43
160	ZJ	501	GTP	C5-C4	-2.74	1.36	1.43
160	YX	602	GTP	C5-C4	-2.74	1.36	1.43
160	TZ	602	GTP	C5-C4	-2.74	1.36	1.43
158	ER	501	GDP	C6-N1	-2.74	1.33	1.37
160	NB	501	GTP	C5-C4	-2.74	1.36	1.43
160	RK	602	GTP	C5-C4	-2.74	1.36	1.43
160	FE	501	GTP	C5-C4	-2.74	1.36	1.43
160	GI	501	GTP	C5-C4	-2.74	1.36	1.43
160	HI	602	GTP	C5-C4	-2.74	1.36	1.43
160	JE	501	GTP	C5-C4	-2.73	1.36	1.43
160	AT	501	GTP	C5-C4	-2.73	1.36	1.43
160	DL	501	GTP	C5-C4	-2.73	1.36	1.43
160	XW	602	GTP	C5-C4	-2.73	1.36	1.43
160	ZF	602	GTP	C5-C4	-2.73	1.36	1.43
160	UF	501	GTP	C5-C4	-2.73	1.36	1.43
160	LH	501	GTP	C5-C4	-2.73	1.36	1.43
160	FK	501	GTP	C5-C4	-2.73	1.36	1.43
160	OD	602	GTP	C5-C4	-2.73	1.36	1.43
160	KB	501	GTP	C5-C4	-2.73	1.36	1.43
160	BP	501	GTP	C5-C4	-2.73	1.36	1.43
158	ET	501	GDP	C6-N1	-2.73	1.33	1.37
160	LT	602	GTP	C5-C4	-2.73	1.36	1.43
160	KD	501	GTP	C5-C4	-2.73	1.36	1.43
160	VS	501	GTP	C5-C4	-2.73	1.36	1.43
160	VA	501	GTP	C5-C4	-2.73	1.36	1.43
160	XK	501	GTP	C5-C4	-2.73	1.36	1.43
160	TK	501	GTP	C5-C4	-2.72	1.36	1.43
160	BZ	501	GTP	C5-C4	-2.72	1.36	1.43
160	NN	501	GTP	C5-C4	-2.72	1.36	1.43
160	VM	602	GTP	C5-C4	-2.72	1.36	1.43
160	WC	501	GTP	C5-C4	-2.72	1.36	1.43
160	SS	602	GTP	C8-N7	-2.72	1.30	1.34
160	VY	501	GTP	C5-C4	-2.72	1.36	1.43
160	TR	501	GTP	C5-C4	-2.72	1.36	1.43
160	UB	501	GTP	C5-C4	-2.72	1.36	1.43
160	TT	602	GTP	C5-C4	-2.72	1.36	1.43
160	DY	501	GTP	C5-C4	-2.72	1.36	1.43
160	MJ	602	GTP	C5-C4	-2.72	1.36	1.43
160	OV	501	GTP	C5-C4	-2.72	1.36	1.43
160	AN	501	GTP	C5-C4	-2.72	1.36	1.43
160	UP	501	GTP	C5-C4	-2.72	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	JA	501	GTP	C5-C4	-2.72	1.36	1.43
160	ZH	501	GTP	C5-C4	-2.72	1.36	1.43
160	XG	602	GTP	C5-C4	-2.71	1.36	1.43
160	NH	502	GTP	C5-C4	-2.71	1.36	1.43
158	HZ	501	GDP	C5-C6	-2.71	1.42	1.47
160	UN	602	GTP	C5-C4	-2.71	1.36	1.43
160	MR	602	GTP	C5-C4	-2.71	1.36	1.43
160	IS	501	GTP	C5-C4	-2.71	1.36	1.43
160	UH	501	GTP	C5-C4	-2.71	1.36	1.43
160	PI	602	GTP	C5-C4	-2.71	1.36	1.43
160	PO	602	GTP	C5-C4	-2.71	1.36	1.43
160	VC	501	GTP	C8-N7	-2.71	1.30	1.34
160	GW	501	GTP	C5-C4	-2.71	1.36	1.43
160	PG	501	GTP	C5-C4	-2.71	1.36	1.43
160	VW	501	GTP	C5-C4	-2.71	1.36	1.43
160	GG	501	GTP	C5-C4	-2.71	1.36	1.43
160	AL	602	GTP	C5-C4	-2.71	1.36	1.43
160	TA	602	GTP	C5-C4	-2.71	1.36	1.43
160	EE	501	GTP	C5-C4	-2.71	1.36	1.43
160	KJ	602	GTP	C5-C4	-2.71	1.36	1.43
160	CP	602	GTP	C5-C4	-2.71	1.36	1.43
160	EA	501	GTP	C5-C4	-2.71	1.36	1.43
160	LZ	501	GTP	C5-C4	-2.71	1.36	1.43
160	YT	602	GTP	C5-C4	-2.71	1.36	1.43
160	ZT	602	GTP	C5-C4	-2.71	1.36	1.43
160	AZ	501	GTP	C5-C4	-2.71	1.36	1.43
160	ZD	501	GTP	C5-C4	-2.71	1.36	1.43
160	HW	501	GTP	C5-C4	-2.71	1.36	1.43
160	ZP	501	GTP	C5-C4	-2.71	1.36	1.43
160	GE	602	GTP	C5-C4	-2.71	1.36	1.43
160	KP	602	GTP	C5-C4	-2.71	1.36	1.43
158	HN	501	GDP	C5-C6	-2.70	1.42	1.47
160	HK	501	GTP	C5-C4	-2.70	1.36	1.43
160	NL	602	GTP	C5-C4	-2.70	1.36	1.43
160	CJ	501	GTP	C5-C4	-2.70	1.36	1.43
160	SC	602	GTP	C5-C4	-2.70	1.36	1.43
160	TI	501	GTP	C5-C4	-2.70	1.36	1.43
160	NZ	602	GTP	C5-C4	-2.70	1.36	1.43
160	Ab	501	GTP	C5-C4	-2.70	1.36	1.43
160	Af	501	GTP	C5-C4	-2.70	1.36	1.43
160	UT	501	GTP	C5-C4	-2.70	1.36	1.43
160	VE	501	GTP	C5-C4	-2.70	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	YJ	602	GTP	C5-C4	-2.70	1.36	1.43
160	YR	501	GTP	C5-C4	-2.70	1.36	1.43
160	BL	501	GTP	C5-C4	-2.70	1.36	1.43
160	VK	501	GTP	C5-C4	-2.70	1.36	1.43
160	Ap	501	GTP	C5-C4	-2.70	1.36	1.43
160	NR	502	GTP	C5-C4	-2.70	1.36	1.43
160	OZ	501	GTP	C5-C4	-2.70	1.36	1.43
160	GC	602	GTP	C5-C4	-2.70	1.36	1.43
160	ML	602	GTP	C5-C4	-2.70	1.36	1.43
160	AX	501	GTP	C5-C4	-2.69	1.36	1.43
160	LX	501	GTP	C5-C4	-2.69	1.36	1.43
160	KF	602	GTP	C5-C4	-2.69	1.36	1.43
160	AJ	501	GTP	C5-C4	-2.69	1.36	1.43
160	XA	501	GTP	C5-C4	-2.69	1.36	1.43
160	ZV	602	GTP	C5-C4	-2.69	1.36	1.43
160	VI	501	GTP	C5-C4	-2.69	1.36	1.43
160	WK	602	GTP	C5-C4	-2.69	1.36	1.43
160	LB	501	GTP	C5-C4	-2.69	1.36	1.43
160	WO	501	GTP	C5-C4	-2.69	1.36	1.43
160	HO	501	GTP	C5-C4	-2.69	1.36	1.43
160	LV	502	GTP	C5-C4	-2.69	1.36	1.43
160	WM	602	GTP	C5-C4	-2.69	1.36	1.43
160	WW	501	GTP	C5-C4	-2.69	1.36	1.43
160	MV	502	GTP	C5-C4	-2.69	1.36	1.43
160	EW	501	GTP	C8-N7	-2.69	1.30	1.34
160	LN	501	GTP	C5-C4	-2.69	1.36	1.43
160	LD	602	GTP	C5-C4	-2.69	1.36	1.43
160	TM	501	GTP	C5-C4	-2.69	1.36	1.43
160	ZN	602	GTP	C5-C4	-2.69	1.36	1.43
160	ZR	602	GTP	C5-C4	-2.69	1.36	1.43
160	MF	602	GTP	C5-C4	-2.68	1.36	1.43
160	ND	501	GTP	C5-C4	-2.68	1.36	1.43
160	Al	602	GTP	C5-C4	-2.68	1.36	1.43
160	JN	501	GTP	C5-C4	-2.68	1.36	1.43
160	JZ	501	GTP	C5-C4	-2.68	1.36	1.43
160	DH	501	GTP	C5-C4	-2.68	1.36	1.43
160	YP	602	GTP	C5-C4	-2.68	1.36	1.43
160	XC	602	GTP	C5-C4	-2.68	1.36	1.43
160	HS	501	GTP	C5-C4	-2.68	1.36	1.43
160	NJ	503	GTP	C5-C4	-2.68	1.36	1.43
160	NV	503	GTP	C5-C4	-2.68	1.36	1.43
160	SW	501	GTP	C5-C4	-2.68	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	DB	501	GTP	C5-C4	-2.68	1.36	1.43
160	NT	602	GTP	C5-C4	-2.68	1.36	1.43
160	WI	602	GTP	C5-C4	-2.68	1.36	1.43
160	ZZ	501	GTP	C5-C4	-2.68	1.36	1.43
160	CB	501	GTP	C5-C4	-2.68	1.36	1.43
160	CR	501	GTP	C5-C4	-2.68	1.36	1.43
160	IM	602	GTP	C5-C4	-2.68	1.36	1.43
160	MT	501	GTP	C5-C4	-2.68	1.36	1.43
160	MH	501	GTP	C5-C4	-2.68	1.36	1.43
160	SE	501	GTP	C5-C4	-2.68	1.36	1.43
160	WY	602	GTP	C5-C4	-2.68	1.36	1.43
160	GO	501	GTP	C5-C4	-2.68	1.36	1.43
160	KV	602	GTP	C5-C4	-2.68	1.36	1.43
160	QQ	501	GTP	C5-C4	-2.68	1.36	1.43
160	GK	602	GTP	C5-C4	-2.67	1.36	1.43
160	BJ	602	GTP	C5-C4	-2.67	1.36	1.43
160	VO	501	GTP	C8-N7	-2.67	1.30	1.34
160	PW	501	GTP	C5-C4	-2.67	1.36	1.43
160	YN	501	GTP	C5-C4	-2.67	1.36	1.43
160	QM	501	GTP	C5-C4	-2.67	1.36	1.43
160	SO	501	GTP	C5-C4	-2.67	1.36	1.43
160	An	602	GTP	C5-C4	-2.67	1.36	1.43
160	Aj	501	GTP	C5-C4	-2.67	1.36	1.43
160	SG	501	GTP	C5-C4	-2.67	1.36	1.43
160	ON	501	GTP	C5-C4	-2.67	1.36	1.43
160	ZL	602	GTP	C5-C4	-2.66	1.36	1.43
160	WQ	602	GTP	C5-C4	-2.66	1.36	1.43
160	OL	602	GTP	C5-C4	-2.66	1.36	1.43
160	NF	502	GTP	C5-C4	-2.66	1.36	1.43
160	GQ	602	GTP	C5-C4	-2.66	1.36	1.43
160	UL	602	GTP	C5-C4	-2.66	1.36	1.43
160	WU	501	GTP	C5-C4	-2.66	1.36	1.43
160	ZX	501	GTP	C5-C4	-2.66	1.36	1.43
160	II	501	GTP	C8-N7	-2.66	1.30	1.34
160	RC	501	GTP	C5-C4	-2.66	1.36	1.43
160	QY	501	GTP	C5-C4	-2.66	1.36	1.43
160	XU	501	GTP	C5-C4	-2.66	1.36	1.43
160	YZ	602	GTP	C5-C4	-2.66	1.36	1.43
160	EG	501	GTP	C5-C4	-2.66	1.36	1.43
160	TC	501	GTP	C5-C4	-2.66	1.36	1.43
160	XQ	501	GTP	C5-C4	-2.66	1.36	1.43
160	RA	602	GTP	C5-C4	-2.66	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	NP	501	GTP	C5-C4	-2.65	1.36	1.43
160	WS	501	GTP	C8-N7	-2.65	1.30	1.34
160	QE	501	GTP	C5-C4	-2.65	1.36	1.43
160	CI	501	GTP	C5-C4	-2.65	1.36	1.43
160	Ah	501	GTP	C5-C4	-2.65	1.36	1.43
160	QA	602	GTP	C5-C4	-2.65	1.36	1.43
160	IA	501	GTP	C5-C4	-2.65	1.36	1.43
160	YC	501	GTP	C5-C4	-2.65	1.36	1.43
160	MX	502	GTP	C5-C4	-2.65	1.36	1.43
160	IY	501	GTP	C5-C4	-2.65	1.36	1.43
158	ZS	501	GDP	C8-N7	-2.65	1.30	1.34
160	SM	501	GTP	C5-C4	-2.65	1.36	1.43
160	DD	501	GTP	C5-C4	-2.65	1.36	1.43
160	DJ	501	GTP	C5-C4	-2.65	1.36	1.43
160	BV	602	GTP	C5-C4	-2.65	1.36	1.43
160	KR	602	GTP	C5-C4	-2.65	1.36	1.43
160	HU	602	GTP	C5-C4	-2.65	1.36	1.43
160	OX	602	GTP	C5-C4	-2.65	1.36	1.43
160	BT	602	GTP	C5-C4	-2.64	1.36	1.43
160	RE	501	GTP	C5-C4	-2.64	1.36	1.43
160	AV	501	GTP	C5-C4	-2.64	1.36	1.43
160	RQ	501	GTP	C5-C4	-2.64	1.36	1.43
160	HQ	602	GTP	C5-C4	-2.64	1.36	1.43
160	QU	602	GTP	C5-C4	-2.64	1.36	1.43
160	KH	501	GTP	C5-C4	-2.64	1.36	1.43
160	AP	602	GTP	C5-C4	-2.64	1.36	1.43
160	SK	602	GTP	C5-C4	-2.64	1.36	1.43
160	TO	501	GTP	C5-C4	-2.64	1.36	1.43
160	UW	602	GTP	C5-C4	-2.64	1.36	1.43
160	QS	501	GTP	C5-C4	-2.64	1.36	1.43
158	CK	501	GDP	C6-N1	-2.64	1.33	1.37
158	DN	501	GDP	C6-N1	-2.64	1.33	1.37
160	SU	501	GTP	C5-C4	-2.64	1.36	1.43
160	QK	602	GTP	C5-C4	-2.63	1.36	1.43
160	YA	602	GTP	C5-C4	-2.63	1.36	1.43
160	XI	602	GTP	C5-C4	-2.63	1.36	1.43
160	HG	501	GTP	C5-C4	-2.63	1.36	1.43
160	CD	602	GTP	C5-C4	-2.63	1.36	1.43
160	PS	501	GTP	C5-C4	-2.63	1.36	1.43
160	BB	501	GTP	C5-C4	-2.63	1.36	1.43
160	QG	602	GTP	C5-C4	-2.63	1.36	1.43
160	SQ	602	GTP	C5-C4	-2.63	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	JL	501	GTP	C8-N7	-2.63	1.30	1.34
160	AF	501	GTP	C5-C4	-2.63	1.36	1.43
160	PE	602	GTP	C5-C4	-2.63	1.36	1.43
160	AR	602	GTP	C5-C4	-2.63	1.36	1.43
158	CW	501	GDP	C6-N1	-2.62	1.33	1.37
160	ZB	501	GTP	C5-C4	-2.62	1.36	1.43
160	HY	501	GTP	C5-C4	-2.62	1.36	1.43
160	CF	501	GTP	C5-C4	-2.62	1.36	1.43
160	DF	501	GTP	C5-C4	-2.62	1.36	1.43
160	PQ	501	GTP	C5-C4	-2.62	1.36	1.43
160	YG	602	GTP	C5-C4	-2.62	1.36	1.43
160	HM	602	GTP	C5-C4	-2.61	1.36	1.43
160	RG	501	GTP	C5-C4	-2.61	1.36	1.43
160	RI	501	GTP	C5-C4	-2.61	1.36	1.43
160	PM	602	GTP	C5-C4	-2.61	1.36	1.43
160	QW	501	GTP	C5-C4	-2.61	1.36	1.43
160	RM	501	GTP	C5-C4	-2.60	1.36	1.43
160	RY	602	GTP	C5-C4	-2.60	1.36	1.43
158	FZ	501	GDP	C6-N1	-2.60	1.33	1.37
160	RO	602	GTP	C5-C4	-2.60	1.36	1.43
160	IW	501	GTP	C5-C4	-2.60	1.36	1.43
158	JS	501	GDP	C6-N1	-2.60	1.33	1.37
160	QO	602	GTP	C5-C4	-2.60	1.36	1.43
160	QC	501	GTP	C5-C4	-2.60	1.36	1.43
160	PY	602	GTP	C5-C4	-2.59	1.36	1.43
160	PU	602	GTP	C5-C4	-2.59	1.36	1.43
158	Ae	501	GDP	C8-N7	-2.59	1.30	1.34
158	BO	501	GDP	C6-N1	-2.59	1.33	1.37
158	CU	501	GDP	C6-N1	-2.59	1.33	1.37
158	JI	501	GDP	C6-N1	-2.59	1.33	1.37
158	AS	501	GDP	C8-N7	-2.59	1.30	1.34
158	WF	501	GDP	C6-N1	-2.58	1.33	1.37
160	BD	602	GTP	C5-C4	-2.58	1.36	1.43
158	JG	501	GDP	C6-N1	-2.58	1.33	1.37
158	DV	501	GDP	C6-N1	-2.58	1.33	1.37
158	DT	501	GDP	C6-N1	-2.57	1.33	1.37
158	IP	501	GDP	C6-N1	-2.56	1.33	1.37
160	IO	501	GTP	C8-N7	-2.56	1.30	1.34
160	PK	501	GTP	C5-C4	-2.56	1.36	1.43
158	ID	501	GDP	C6-N1	-2.56	1.33	1.37
158	BU	501	GDP	C6-N1	-2.56	1.33	1.37
158	XF	501	GDP	C6-N1	-2.55	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
158	GZ	501	GDP	C6-N1	-2.55	1.33	1.37
158	WD	501	GDP	C6-N1	-2.54	1.33	1.37
158	IF	501	GDP	C6-N1	-2.53	1.33	1.37
158	WX	501	GDP	C6-N1	-2.52	1.33	1.37
158	BC	501	GDP	C6-N1	-2.52	1.33	1.37
158	IL	501	GDP	C6-N1	-2.51	1.34	1.37
158	WL	501	GDP	C6-N1	-2.51	1.34	1.37
158	HL	501	GDP	C6-N1	-2.50	1.34	1.37
158	JY	501	GDP	C6-N1	-2.50	1.34	1.37
158	BO	501	GDP	O4'-C1'	2.50	1.44	1.40
158	FV	501	GDP	C6-N1	-2.49	1.34	1.37
158	MQ	501	GDP	C6-N1	-2.49	1.34	1.37
158	IT	501	GDP	C6-N1	-2.49	1.34	1.37
160	WG	501	GTP	C8-N7	-2.48	1.31	1.34
158	BU	501	GDP	O4'-C1'	2.47	1.44	1.40
158	XJ	501	GDP	C8-N7	-2.46	1.31	1.34
158	EB	501	GDP	C6-N1	-2.46	1.34	1.37
160	VO	501	GTP	PA-O3A	-2.45	1.56	1.59
158	HD	501	GDP	O4'-C1'	2.45	1.44	1.40
158	JW	501	GDP	C6-N1	-2.44	1.34	1.37
158	IN	501	GDP	C6-N1	-2.44	1.34	1.37
158	IV	501	GDP	C6-N1	-2.44	1.34	1.37
158	FX	501	GDP	C6-N1	-2.43	1.34	1.37
160	UJ	501	GTP	C5-C6	-2.43	1.42	1.47
160	SA	501	GTP	PA-O3A	-2.42	1.56	1.59
158	IH	501	GDP	C6-N1	-2.42	1.34	1.37
158	JK	501	GDP	C6-N1	-2.42	1.34	1.37
156	8f	4704	ATP	PB-O3B	-2.41	1.56	1.59
158	CS	501	GDP	C6-N1	-2.40	1.34	1.37
160	SA	501	GTP	C5-C4	-2.40	1.37	1.43
160	VC	501	GTP	C5-C4	-2.40	1.37	1.43
158	HD	501	GDP	C6-N1	-2.38	1.34	1.37
158	AO	501	GDP	C6-N1	-2.35	1.34	1.37
158	AC	501	GDP	C6-N1	-2.35	1.34	1.37
160	UJ	501	GTP	C5-C4	-2.35	1.37	1.43
158	IH	501	GDP	O4'-C1'	2.34	1.44	1.40
160	TX	602	GTP	PA-O3A	-2.34	1.57	1.59
158	FV	501	GDP	O4'-C1'	2.34	1.44	1.40
158	AG	501	GDP	C8-N7	-2.33	1.31	1.34
158	IP	501	GDP	O4'-C1'	2.33	1.43	1.40
158	GZ	501	GDP	O4'-C1'	2.31	1.43	1.40
158	CU	501	GDP	O4'-C1'	2.31	1.43	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
158	HL	501	GDP	O4'-C1'	2.30	1.43	1.40
160	VO	501	GTP	C5-C4	-2.28	1.37	1.43
160	WS	501	GTP	PG-O2G	-2.26	1.46	1.54
158	IT	501	GDP	O4'-C1'	2.24	1.43	1.40
158	BC	501	GDP	O4'-C1'	2.23	1.43	1.40
158	IV	501	GDP	O4'-C1'	2.23	1.43	1.40
158	HB	501	GDP	C8-N7	-2.22	1.31	1.34
158	XJ	501	GDP	C5-C4	-2.22	1.37	1.43
158	FZ	501	GDP	O4'-C1'	2.21	1.43	1.40
160	VC	501	GTP	C5-C6	-2.21	1.43	1.47
160	JL	501	GTP	C5-C4	-2.21	1.37	1.43
160	IO	501	GTP	PG-O2G	-2.20	1.46	1.54
160	WG	501	GTP	PG-O3G	-2.20	1.46	1.54
160	QI	602	GTP	C2-N3	2.20	1.38	1.33
158	AS	501	GDP	C5-C4	-2.20	1.37	1.43
158	XF	501	GDP	O4'-C1'	2.20	1.43	1.40
158	IN	501	GDP	O4'-C1'	2.20	1.43	1.40
156	8e	4704	ATP	PA-O3A	-2.20	1.57	1.59
160	XE	501	GTP	C2-N3	2.20	1.38	1.33
160	SS	602	GTP	C5-C4	-2.19	1.37	1.43
158	WF	501	GDP	O4'-C1'	2.19	1.43	1.40
160	TX	602	GTP	PG-O2G	-2.19	1.46	1.54
160	EW	501	GTP	PA-O3A	-2.19	1.57	1.59
156	9f	4701	ATP	PB-O3B	-2.19	1.57	1.59
158	HN	501	GDP	C8-N7	-2.19	1.31	1.34
160	TX	602	GTP	C5-C4	-2.19	1.37	1.43
158	AG	501	GDP	C5-C4	-2.18	1.37	1.43
158	IL	501	GDP	O4'-C1'	2.18	1.43	1.40
160	EW	501	GTP	C5-C4	-2.18	1.37	1.43
160	UJ	501	GTP	PG-O3G	-2.18	1.46	1.54
160	IO	501	GTP	C5-C4	-2.17	1.37	1.43
160	JL	501	GTP	PG-O2G	-2.17	1.46	1.54
158	ID	501	GDP	O4'-C1'	2.17	1.43	1.40
160	SA	501	GTP	PG-O3G	-2.16	1.46	1.54
160	XY	501	GTP	C8-N7	-2.16	1.31	1.34
158	JK	501	GDP	O4'-C1'	2.16	1.43	1.40
160	TX	602	GTP	PG-O3G	-2.15	1.46	1.54
160	WS	501	GTP	C5-C4	-2.15	1.37	1.43
160	IK	602	GTP	C2-N3	2.15	1.38	1.33
160	TX	602	GTP	C5-C6	-2.14	1.43	1.47
158	FX	501	GDP	O4'-C1'	2.14	1.43	1.40
160	WS	501	GTP	PG-O3G	-2.14	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
158	AO	501	GDP	O4'-C1'	2.14	1.43	1.40
160	BH	602	GTP	C2-N3	2.14	1.38	1.33
158	HZ	501	GDP	C8-N7	-2.13	1.31	1.34
160	HC	602	GTP	C2-N3	2.13	1.38	1.33
160	XM	602	GTP	C8-N7	-2.13	1.31	1.34
158	IF	501	GDP	O4'-C1'	2.13	1.43	1.40
158	JW	501	GDP	O4'-C1'	2.12	1.43	1.40
160	CT	602	GTP	C2-N3	2.12	1.38	1.33
160	HA	501	GTP	C2-N3	2.12	1.38	1.33
160	AB	602	GTP	C2-N3	2.12	1.38	1.33
158	ZS	501	GDP	C5-C4	-2.11	1.37	1.43
160	XO	602	GTP	C2-N3	2.11	1.38	1.33
160	WG	501	GTP	C5-C4	-2.11	1.37	1.43
160	XS	501	GTP	C2-N3	2.10	1.38	1.33
160	II	501	GTP	C5-C4	-2.10	1.37	1.43
158	MQ	501	GDP	O4'-C1'	2.10	1.43	1.40
160	AD	501	GTP	C2-N3	2.09	1.38	1.33
160	VO	501	GTP	PG-O2G	-2.09	1.47	1.54
160	VC	501	GTP	PG-O2G	-2.09	1.47	1.54
160	CL	501	GTP	C2-N3	2.09	1.38	1.33
160	IE	501	GTP	C2-N3	2.08	1.38	1.33
160	IO	501	GTP	PG-O3G	-2.08	1.47	1.54
158	Ae	501	GDP	C5-C4	-2.08	1.38	1.43
160	BN	602	GTP	C2-N3	2.07	1.38	1.33
158	JG	501	GDP	O4'-C1'	2.07	1.43	1.40
160	Ad	602	GTP	C2-N3	2.07	1.38	1.33
160	HE	602	GTP	C2-N3	2.07	1.38	1.33
160	CV	501	GTP	C2-N3	2.06	1.38	1.33
160	XY	501	GTP	C5-C4	-2.05	1.38	1.43
158	JS	501	GDP	O4'-C1'	2.05	1.43	1.40
160	UJ	501	GTP	PG-O2G	-2.05	1.47	1.54
160	II	501	GTP	PG-O3G	-2.05	1.47	1.54
160	CX	602	GTP	C2-N3	2.05	1.38	1.33
160	XM	602	GTP	C5-C4	-2.04	1.38	1.43
158	HN	501	GDP	C5-C4	-2.04	1.38	1.43
160	SS	602	GTP	PG-O2G	-2.04	1.47	1.54
160	JL	501	GTP	PG-O3G	-2.03	1.47	1.54
160	SS	602	GTP	PG-O3G	-2.03	1.47	1.54
160	FI	602	GTP	C5-C4	-2.02	1.38	1.43
158	HB	501	GDP	C5-C4	-2.02	1.38	1.43
160	XS	501	GTP	C5-C4	-2.02	1.38	1.43
160	II	501	GTP	PA-O3A	-2.02	1.57	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
160	KZ	602	GTP	C2-N3	2.02	1.38	1.33
158	HZ	501	GDP	C5-C4	-2.02	1.38	1.43
160	VC	501	GTP	PG-O3G	-2.02	1.47	1.54
160	FG	501	GTP	C5-C4	-2.01	1.38	1.43
160	JP	602	GTP	C2-N3	2.01	1.38	1.33
156	9e	5004	ATP	PB-O3B	-2.01	1.57	1.59
158	CS	501	GDP	O4'-C1'	2.01	1.43	1.40
160	VO	501	GTP	PG-O3G	-2.01	1.47	1.54
160	IU	501	GTP	C2-N3	2.01	1.38	1.33
160	JV	501	GTP	C2-N3	2.01	1.38	1.33
160	FW	602	GTP	C5-C4	-2.01	1.38	1.43
158	WD	501	GDP	O4'-C1'	2.01	1.43	1.40
160	II	501	GTP	PG-O2G	-2.00	1.47	1.54

All (1054) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	EW	501	GTP	O6-C6-N1	-4.11	115.75	120.62
160	SA	501	GTP	O6-C6-N1	-4.07	115.79	120.62
160	SS	602	GTP	O6-C6-N1	-3.92	115.96	120.62
160	IO	501	GTP	O6-C6-N1	-3.84	116.06	120.62
158	AS	501	GDP	O6-C6-N1	-3.83	116.08	120.62
160	HA	501	GTP	C8-N7-C5	3.80	109.02	102.55
160	FI	602	GTP	C8-N7-C5	3.80	109.01	102.55
157	8f	4701	ADP	N3-C2-N1	-3.79	123.53	128.67
157	9f	4702	ADP	N3-C2-N1	-3.78	123.55	128.67
160	XO	602	GTP	C8-N7-C5	3.75	108.94	102.55
160	DO	501	GTP	C8-N7-C5	3.75	108.94	102.55
160	FG	501	GTP	C8-N7-C5	3.74	108.92	102.55
160	FW	602	GTP	C8-N7-C5	3.74	108.92	102.55
160	HC	602	GTP	C8-N7-C5	3.74	108.91	102.55
157	7f	4701	ADP	N3-C2-N1	-3.73	123.61	128.67
160	XS	501	GTP	C8-N7-C5	3.72	108.89	102.55
157	7b	4704	ADP	N3-C2-N1	-3.71	123.63	128.67
160	ES	501	GTP	C8-N7-C5	3.71	108.86	102.55
160	DS	602	GTP	C8-N7-C5	3.71	108.86	102.55
160	Ad	602	GTP	C8-N7-C5	3.70	108.86	102.55
160	IU	501	GTP	C8-N7-C5	3.70	108.86	102.55
160	FY	501	GTP	C8-N7-C5	3.70	108.85	102.55
160	AB	602	GTP	C8-N7-C5	3.70	108.85	102.55
160	IK	602	GTP	C8-N7-C5	3.69	108.84	102.55
160	EC	501	GTP	C8-N7-C5	3.69	108.83	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	XE	501	GTP	C8-N7-C5	3.68	108.82	102.55
160	CL	501	GTP	C8-N7-C5	3.68	108.81	102.55
160	QI	602	GTP	C8-N7-C5	3.68	108.81	102.55
160	GA	602	GTP	C8-N7-C5	3.67	108.80	102.55
157	7a	4703	ADP	N3-C2-N1	-3.67	123.69	128.67
160	CV	501	GTP	C8-N7-C5	3.66	108.79	102.55
160	IE	501	GTP	C8-N7-C5	3.66	108.79	102.55
160	DU	501	GTP	C8-N7-C5	3.66	108.78	102.55
160	AD	501	GTP	C8-N7-C5	3.66	108.78	102.55
158	AG	501	GDP	O6-C6-N1	-3.66	116.28	120.62
160	JV	501	GTP	C8-N7-C5	3.66	108.78	102.55
160	CX	602	GTP	C8-N7-C5	3.66	108.77	102.55
160	JX	501	GTP	C8-N7-C5	3.65	108.76	102.55
157	7e	4701	ADP	N3-C2-N1	-3.65	123.72	128.67
160	DW	602	GTP	C8-N7-C5	3.64	108.75	102.55
160	HE	602	GTP	C8-N7-C5	3.64	108.75	102.55
160	BN	602	GTP	C8-N7-C5	3.64	108.75	102.55
160	BR	501	GTP	C8-N7-C5	3.64	108.74	102.55
157	8e	4701	ADP	N3-C2-N1	-3.64	123.74	128.67
157	9e	5002	ADP	N3-C2-N1	-3.64	123.74	128.67
160	WE	602	GTP	C8-N7-C5	3.63	108.73	102.55
160	BF	602	GTP	C8-N7-C5	3.63	108.72	102.55
160	JR	602	GTP	C8-N7-C5	3.63	108.72	102.55
160	KZ	602	GTP	C8-N7-C5	3.62	108.72	102.55
160	JP	602	GTP	C8-N7-C5	3.61	108.69	102.55
160	JJ	501	GTP	C8-N7-C5	3.60	108.68	102.55
160	PC	602	GTP	C8-N7-C5	3.60	108.68	102.55
160	IQ	501	GTP	C8-N7-C5	3.60	108.68	102.55
160	JH	602	GTP	C8-N7-C5	3.60	108.67	102.55
160	BH	602	GTP	C8-N7-C5	3.59	108.66	102.55
160	WA	602	GTP	C8-N7-C5	3.59	108.66	102.55
160	IG	501	GTP	C8-N7-C5	3.58	108.65	102.55
160	CT	602	GTP	C8-N7-C5	3.57	108.63	102.55
156	7e	4703	ATP	C4'-O4'-C1'	-3.52	106.70	109.92
158	BO	501	GDP	O4'-C1'-N9	3.43	113.29	108.75
158	HD	501	GDP	O4'-C1'-N9	3.34	113.18	108.75
160	II	501	GTP	O6-C6-N1	-3.30	116.70	120.62
156	8e	4702	ATP	C4'-O4'-C1'	-3.29	106.92	109.92
160	SA	501	GTP	O6-C6-C5	3.28	130.82	124.32
158	BU	501	GDP	O4'-C1'-N9	3.25	113.05	108.75
160	JL	501	GTP	O6-C6-N1	-3.22	116.79	120.62
160	HA	501	GTP	C5-C6-N1	3.20	120.17	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	XJ	501	GDP	O6-C6-N1	-3.19	116.83	120.62
160	FY	501	GTP	C2-N1-C6	-3.16	119.33	125.11
160	FG	501	GTP	C2-N1-C6	-3.16	119.33	125.11
160	FW	602	GTP	C5-C6-N1	3.16	120.09	114.07
158	FV	501	GDP	C8-N7-C5	3.14	107.90	102.55
160	BN	602	GTP	C5-C6-N1	3.14	120.07	114.07
160	BN	602	GTP	C2-N1-C6	-3.14	119.36	125.11
160	Ad	602	GTP	C5-C6-N1	3.13	120.04	114.07
160	HA	501	GTP	C2-N1-C6	-3.12	119.39	125.11
160	HC	602	GTP	C5-C6-N1	3.12	120.02	114.07
160	IU	501	GTP	C2-N1-C6	-3.12	119.40	125.11
160	EW	501	GTP	O6-C6-C5	3.12	130.50	124.32
160	IU	501	GTP	C5-C6-N1	3.12	120.02	114.07
160	IK	602	GTP	C5-C6-N1	3.11	120.01	114.07
158	Ae	501	GDP	O6-C6-N1	-3.11	116.93	120.62
160	KZ	602	GTP	C5-C6-N1	3.11	120.00	114.07
160	FY	501	GTP	C5-C6-N1	3.11	120.00	114.07
160	FW	602	GTP	C2-N1-C6	-3.11	119.42	125.11
156	9e	5004	ATP	C4'-O4'-C1'	-3.10	107.08	109.92
160	XE	501	GTP	C5-C6-N1	3.10	119.98	114.07
160	IE	501	GTP	C5-C6-N1	3.09	119.97	114.07
158	FZ	501	GDP	C8-N7-C5	3.09	107.81	102.55
158	IV	501	GDP	O4'-C1'-N9	3.09	112.84	108.75
160	PC	602	GTP	C5-C6-N1	3.08	119.95	114.07
160	TX	602	GTP	O6-C6-N1	-3.08	116.96	120.62
160	AD	501	GTP	C5-C6-N1	3.08	119.95	114.07
160	QI	602	GTP	C5-C6-N1	3.08	119.94	114.07
160	IO	501	GTP	O3B-PB-O1B	-3.07	101.46	110.70
160	IE	501	GTP	C2-N1-C6	-3.07	119.48	125.11
158	FH	501	GDP	C8-N7-C5	3.07	107.77	102.55
160	KZ	602	GTP	C2-N1-C6	-3.06	119.50	125.11
160	EC	501	GTP	C5-C6-N1	3.06	119.92	114.07
160	HC	602	GTP	C2-N1-C6	-3.06	119.50	125.11
160	XE	501	GTP	C2-N1-C6	-3.06	119.52	125.11
160	Ad	602	GTP	C2-N1-C6	-3.05	119.52	125.11
160	IG	501	GTP	C2-N1-C6	-3.05	119.53	125.11
160	AB	602	GTP	C5-C6-N1	3.05	119.89	114.07
160	DW	602	GTP	C5-C6-N1	3.05	119.89	114.07
160	JX	501	GTP	C5-C6-N1	3.04	119.88	114.07
160	DU	501	GTP	C5-C6-N1	3.04	119.87	114.07
160	XS	501	GTP	C2-N1-C6	-3.04	119.55	125.11
160	IG	501	GTP	C5-C6-N1	3.03	119.86	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	AB	602	GTP	C2-N1-C6	-3.03	119.56	125.11
160	XO	602	GTP	C5-C6-N1	3.03	119.86	114.07
160	CT	602	GTP	C5-C6-N1	3.03	119.85	114.07
160	DO	501	GTP	C5-C6-N1	3.03	119.85	114.07
160	BR	501	GTP	O4'-C1'-N9	3.03	112.76	108.75
160	DS	602	GTP	C5-C6-N1	3.02	119.84	114.07
160	IK	602	GTP	C2-N1-C6	-3.02	119.58	125.11
158	FV	501	GDP	O4'-C1'-N9	3.02	112.75	108.75
158	BO	501	GDP	C8-N7-C5	3.02	107.69	102.55
160	BF	602	GTP	O4'-C1'-N9	3.02	112.75	108.75
160	BH	602	GTP	C2-N1-C6	-3.02	119.58	125.11
160	CV	501	GTP	C5-C6-N1	3.02	119.83	114.07
160	JR	602	GTP	C5-C6-N1	3.02	119.82	114.07
158	WF	501	GDP	C8-N7-C5	3.01	107.68	102.55
158	HL	501	GDP	O4'-C1'-N9	3.01	112.74	108.75
160	PC	602	GTP	O4'-C1'-N9	3.01	112.74	108.75
160	AD	501	GTP	C2-N1-C6	-3.01	119.60	125.11
160	FG	501	GTP	C5-C6-N1	3.01	119.81	114.07
160	QI	602	GTP	C2-N1-C6	-3.01	119.60	125.11
158	ET	501	GDP	C8-N7-C5	3.01	107.67	102.55
158	AS	501	GDP	O6-C6-C5	3.00	130.28	124.32
160	JX	501	GTP	C2-N1-C6	-3.00	119.61	125.11
160	XO	602	GTP	C2-N1-C6	-3.00	119.62	125.11
160	XS	501	GTP	C5-C6-N1	3.00	119.79	114.07
160	BH	602	GTP	C5-C6-N1	3.00	119.79	114.07
158	HL	501	GDP	C8-N7-C5	2.99	107.64	102.55
160	WA	602	GTP	C2-N1-C6	-2.99	119.64	125.11
160	PC	602	GTP	C2-N1-C6	-2.99	119.64	125.11
158	CU	501	GDP	O4'-C1'-N9	2.99	112.71	108.75
160	JH	602	GTP	C5-C6-N1	2.99	119.77	114.07
160	DW	602	GTP	C2-N1-C6	-2.98	119.65	125.11
160	DO	501	GTP	C2-N1-C6	-2.98	119.65	125.11
158	GZ	501	GDP	C8-N7-C5	2.98	107.63	102.55
160	BF	602	GTP	C5-C6-N1	2.98	119.76	114.07
160	WA	602	GTP	C5-C6-N1	2.98	119.76	114.07
156	7a	4702	ATP	C4'-O4'-C1'	-2.98	107.19	109.92
160	EC	501	GTP	C2-N1-C6	-2.98	119.65	125.11
158	HD	501	GDP	C8-N7-C5	2.98	107.62	102.55
158	GZ	501	GDP	O4'-C1'-N9	2.98	112.70	108.75
158	DN	501	GDP	C8-N7-C5	2.97	107.61	102.55
160	CL	501	GTP	C5-C6-N1	2.96	119.72	114.07
158	DV	501	GDP	C8-N7-C5	2.96	107.59	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
157	7b	4704	ADP	C4'-O4'-C1'	-2.96	107.21	109.92
158	JW	501	GDP	C8-N7-C5	2.96	107.59	102.55
160	HA	501	GTP	O4'-C1'-N9	2.96	112.67	108.75
160	DU	501	GTP	C2-N1-C6	-2.96	119.69	125.11
160	CT	602	GTP	C2-N1-C6	-2.96	119.69	125.11
160	BF	602	GTP	C2-N1-C6	-2.96	119.70	125.11
160	CX	602	GTP	C2-N1-C6	-2.96	119.70	125.11
158	ZS	501	GDP	O6-C6-N1	-2.96	117.11	120.62
160	BR	501	GTP	C5-C6-N1	2.95	119.70	114.07
158	BU	501	GDP	C8-N7-C5	2.95	107.58	102.55
160	ES	501	GTP	C5-C6-N1	2.95	119.70	114.07
160	JH	602	GTP	C2-N1-C6	-2.95	119.71	125.11
158	CS	501	GDP	C8-N7-C5	2.95	107.56	102.55
158	ER	501	GDP	C8-N7-C5	2.94	107.56	102.55
158	JK	501	GDP	C8-N7-C5	2.94	107.56	102.55
160	WS	501	GTP	O6-C6-N1	-2.94	117.13	120.62
160	XO	602	GTP	O4'-C1'-N9	2.94	112.64	108.75
160	CX	602	GTP	C5-C6-N1	2.94	119.67	114.07
160	BR	501	GTP	C2-N1-C6	-2.93	119.74	125.11
160	IQ	501	GTP	O4'-C1'-N9	2.93	112.63	108.75
158	BC	501	GDP	C8-N7-C5	2.93	107.54	102.55
158	WF	501	GDP	O4'-C1'-N9	2.93	112.63	108.75
158	CK	501	GDP	C8-N7-C5	2.93	107.54	102.55
160	SS	602	GTP	O6-C6-C5	2.93	130.13	124.32
160	IE	501	GTP	O4'-C1'-N9	2.93	112.63	108.75
160	DS	602	GTP	C2-N1-C6	-2.93	119.75	125.11
158	ID	501	GDP	C8-N7-C5	2.92	107.53	102.55
158	ID	501	GDP	O4'-C1'-N9	2.92	112.62	108.75
158	EB	501	GDP	C8-N7-C5	2.92	107.52	102.55
158	AO	501	GDP	C8-N7-C5	2.92	107.52	102.55
160	JJ	501	GTP	C5-C6-N1	2.92	119.63	114.07
160	CL	501	GTP	C2-N1-C6	-2.91	119.78	125.11
160	JR	602	GTP	C2-N1-C6	-2.91	119.78	125.11
160	JJ	501	GTP	C2-N1-C6	-2.91	119.78	125.11
158	ED	501	GDP	C8-N7-C5	2.90	107.49	102.55
160	JV	501	GTP	C5-C6-N1	2.90	119.61	114.07
158	CU	501	GDP	C8-N7-C5	2.90	107.49	102.55
160	ES	501	GTP	C2-N1-C6	-2.90	119.80	125.11
158	JI	501	GDP	C8-N7-C5	2.90	107.48	102.55
158	XF	501	GDP	C8-N7-C5	2.90	107.48	102.55
160	IK	602	GTP	O4'-C1'-N9	2.89	112.58	108.75
158	AC	501	GDP	C8-N7-C5	2.89	107.47	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	IH	501	GDP	C8-N7-C5	2.89	107.47	102.55
158	IP	501	GDP	C8-N7-C5	2.89	107.47	102.55
158	CW	501	GDP	C8-N7-C5	2.89	107.47	102.55
160	WE	602	GTP	C5-C6-N1	2.89	119.58	114.07
160	CV	501	GTP	C2-N1-C6	-2.89	119.83	125.11
158	JY	501	GDP	C8-N7-C5	2.89	107.46	102.55
160	JV	501	GTP	C2-N1-C6	-2.88	119.84	125.11
158	JS	501	GDP	C8-N7-C5	2.88	107.45	102.55
158	IN	501	GDP	C8-N7-C5	2.88	107.44	102.55
157	7b	4704	ADP	O4'-C1'-N9	2.87	112.55	108.75
158	WD	501	GDP	C8-N7-C5	2.87	107.44	102.55
160	BN	602	GTP	O4'-C1'-N9	2.87	112.55	108.75
158	DT	501	GDP	C8-N7-C5	2.87	107.43	102.55
158	FX	501	GDP	C8-N7-C5	2.87	107.43	102.55
158	FZ	501	GDP	O4'-C1'-N9	2.86	112.54	108.75
158	IT	501	GDP	C8-N7-C5	2.86	107.42	102.55
160	XS	501	GTP	O4'-C1'-N9	2.86	112.54	108.75
160	II	501	GTP	O6-C6-C5	2.85	129.98	124.32
160	SS	602	GTP	O3A-PB-O1B	-2.84	102.15	110.70
160	WG	501	GTP	O6-C6-N1	-2.84	117.25	120.62
158	AG	501	GDP	O6-C6-C5	2.84	129.95	124.32
158	JG	501	GDP	C8-N7-C5	2.84	107.38	102.55
158	IP	501	GDP	O4'-C1'-N9	2.84	112.51	108.75
158	WL	501	GDP	C8-N7-C5	2.84	107.38	102.55
158	XF	501	GDP	O4'-C1'-N9	2.83	112.50	108.75
160	VC	501	GTP	O2B-PB-O3A	2.83	114.92	107.27
158	IL	501	GDP	C8-N7-C5	2.82	107.36	102.55
158	MQ	501	GDP	C8-N7-C5	2.82	107.36	102.55
160	WG	501	GTP	O2B-PB-O3A	2.81	114.86	107.27
158	XJ	501	GDP	O6-C6-C5	2.81	129.89	124.32
158	IV	501	GDP	C8-N7-C5	2.80	107.31	102.55
158	IT	501	GDP	O4'-C1'-N9	2.79	112.45	108.75
158	WX	501	GDP	C8-N7-C5	2.78	107.29	102.55
160	WE	602	GTP	C2-N1-C6	-2.78	120.03	125.11
160	HE	602	GTP	C5-C6-N1	2.77	119.36	114.07
160	IG	501	GTP	O4'-C1'-N9	2.77	112.42	108.75
158	IF	501	GDP	C8-N7-C5	2.77	107.27	102.55
158	IH	501	GDP	O4'-C1'-N9	2.77	112.42	108.75
158	IN	501	GDP	O4'-C1'-N9	2.77	112.41	108.75
160	BH	602	GTP	O4'-C1'-N9	2.76	112.41	108.75
160	HC	602	GTP	O4'-C1'-N9	2.76	112.40	108.75
158	IF	501	GDP	O4'-C1'-N9	2.75	112.39	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	JK	501	GDP	O4'-C1'-N9	2.75	112.39	108.75
160	FI	602	GTP	C5-C6-N1	2.75	119.31	114.07
158	FX	501	GDP	O4'-C1'-N9	2.74	112.39	108.75
158	JW	501	GDP	O4'-C1'-N9	2.74	112.38	108.75
160	JL	501	GTP	O6-C6-C5	2.73	129.74	124.32
160	IO	501	GTP	O6-C6-C5	2.73	129.74	124.32
160	XE	501	GTP	O4'-C1'-N9	2.73	112.36	108.75
160	SA	501	GTP	O4'-C1'-N9	2.72	112.36	108.75
160	IQ	501	GTP	C5-C6-N1	2.72	119.26	114.07
158	JS	501	GDP	O4'-C1'-N9	2.72	112.35	108.75
158	JG	501	GDP	O4'-C1'-N9	2.70	112.33	108.75
157	7f	4701	ADP	C4'-O4'-C1'	-2.70	107.45	109.92
160	GA	602	GTP	C5-C6-N1	2.69	119.21	114.07
157	7f	4701	ADP	C4-C5-N7	-2.69	106.49	109.34
158	CS	501	GDP	O4'-C1'-N9	2.69	112.31	108.75
158	AO	501	GDP	O4'-C1'-N9	2.69	112.31	108.75
157	8f	4701	ADP	C4'-O4'-C1'	-2.69	107.47	109.92
160	TX	602	GTP	O6-C6-C5	2.68	129.63	124.32
158	AC	501	GDP	O4'-C1'-N9	2.67	112.28	108.75
160	JP	602	GTP	C5-C6-N1	2.67	119.16	114.07
157	9f	4702	ADP	C4-C5-N7	-2.65	106.53	109.34
157	9f	4702	ADP	C4'-O4'-C1'	-2.65	107.49	109.92
160	AB	602	GTP	O4'-C1'-N9	2.65	112.25	108.75
160	UJ	501	GTP	O6-C6-N1	-2.65	117.48	120.62
160	VO	501	GTP	O6-C6-N1	-2.64	117.48	120.62
158	BC	501	GDP	O4'-C1'-N9	2.63	112.23	108.75
157	8f	4701	ADP	C4-C5-N7	-2.63	106.56	109.34
157	7e	4701	ADP	C4-C5-N7	-2.62	106.56	109.34
158	WD	501	GDP	O4'-C1'-N9	2.62	112.22	108.75
160	IU	501	GTP	O4'-C1'-N9	2.60	112.20	108.75
158	JY	501	GDP	O4'-C1'-N9	2.60	112.19	108.75
157	7b	4704	ADP	C4-C5-N7	-2.60	106.59	109.34
158	Ae	501	GDP	O6-C6-C5	2.58	129.44	124.32
157	7f	4701	ADP	O4'-C1'-N9	2.57	112.15	108.75
157	9f	4702	ADP	O4'-C1'-N9	2.57	112.15	108.75
160	VO	501	GTP	O6-C6-C5	2.56	129.40	124.32
158	IL	501	GDP	O4'-C1'-N9	2.56	112.14	108.75
160	WS	501	GTP	O6-C6-C5	2.55	129.38	124.32
158	JI	501	GDP	O4'-C1'-N9	2.55	112.13	108.75
160	TX	602	GTP	O2B-PB-O3A	2.55	114.16	107.27
157	8e	4701	ADP	C4-C5-N7	-2.55	106.65	109.34
160	WG	501	GTP	O6-C6-C5	2.55	129.37	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	UJ	501	GTP	O6-C6-C5	2.54	129.36	124.32
160	VC	501	GTP	O6-C6-N1	-2.54	117.61	120.62
158	WX	501	GDP	O4'-C1'-N9	2.51	112.08	108.75
160	SK	602	GTP	O4'-C1'-N9	2.51	112.08	108.75
158	SR	501	GDP	O6-C6-N1	-2.51	117.64	120.62
160	KL	602	GTP	C2-N1-C6	-2.51	120.52	125.11
160	QI	602	GTP	O4'-C1'-N9	2.50	112.07	108.75
158	RH	501	GDP	O4'-C1'-N9	2.50	112.06	108.75
160	KN	602	GTP	C2-N1-C6	-2.49	120.55	125.11
158	WL	501	GDP	O4'-C1'-N9	2.49	112.05	108.75
160	UJ	501	GTP	O2B-PB-O3A	2.49	114.00	107.27
158	ED	501	GDP	O4'-C1'-N9	2.49	112.05	108.75
158	CW	501	GDP	O4'-C1'-N9	2.49	112.04	108.75
160	GS	602	GTP	C2-N1-C6	-2.49	120.56	125.11
157	9e	5002	ADP	C4-C5-N7	-2.48	106.71	109.34
160	OT	602	GTP	C2-N1-C6	-2.48	120.57	125.11
158	TD	501	GDP	O4'-C1'-N9	2.48	112.03	108.75
160	OP	501	GTP	C2-N1-C6	-2.47	120.58	125.11
160	RY	602	GTP	O4'-C1'-N9	2.47	112.02	108.75
160	OH	501	GTP	C2-N1-C6	-2.47	120.60	125.11
158	CK	501	GDP	O4'-C1'-N9	2.46	112.01	108.75
158	RZ	501	GDP	O4'-C1'-N9	2.46	112.01	108.75
160	RM	501	GTP	O4'-C1'-N9	2.46	112.01	108.75
160	FO	602	GTP	C2-N1-C6	-2.46	120.61	125.11
158	QJ	501	GDP	O4'-C1'-N9	2.46	112.00	108.75
158	ET	501	GDP	O4'-C1'-N9	2.46	112.00	108.75
160	TA	602	GTP	C2-N1-C6	-2.45	120.62	125.11
160	ZP	501	GTP	C2-N1-C6	-2.45	120.62	125.11
157	7a	4703	ADP	C4-C5-N7	-2.45	106.75	109.34
158	ZS	501	GDP	O6-C6-C5	2.45	129.18	124.32
158	QV	501	GDP	O4'-C1'-N9	2.45	111.99	108.75
160	GG	501	GTP	C2-N1-C6	-2.45	120.63	125.11
160	LJ	501	GTP	C2-N1-C6	-2.45	120.63	125.11
158	SR	501	GDP	O4'-C1'-N9	2.44	111.99	108.75
160	NL	602	GTP	C2-N1-C6	-2.44	120.64	125.11
160	Ap	501	GTP	C2-N1-C6	-2.44	120.64	125.11
160	MF	602	GTP	C2-N1-C6	-2.44	120.65	125.11
160	RM	501	GTP	C2-N1-C6	-2.44	120.65	125.11
160	LV	502	GTP	C2-N1-C6	-2.44	120.65	125.11
158	SL	501	GDP	O4'-C1'-N9	2.44	111.97	108.75
160	TR	501	GTP	C2-N1-C6	-2.44	120.65	125.11
160	RC	501	GTP	C2-N1-C6	-2.43	120.66	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	GU	602	GTP	C2-N1-C6	-2.43	120.66	125.11
160	RY	602	GTP	C2-N1-C6	-2.43	120.67	125.11
160	TQ	602	GTP	C2-N1-C6	-2.43	120.67	125.11
160	MJ	602	GTP	C2-N1-C6	-2.43	120.67	125.11
160	OR	602	GTP	C2-N1-C6	-2.43	120.67	125.11
158	DT	501	GDP	O4'-C1'-N9	2.42	111.96	108.75
160	EQ	602	GTP	C2-N1-C6	-2.42	120.67	125.11
160	An	602	GTP	C2-N1-C6	-2.42	120.67	125.11
160	JR	602	GTP	O4'-C1'-N9	2.42	111.96	108.75
160	GW	501	GTP	C2-N1-C6	-2.42	120.68	125.11
160	MB	502	GTP	C2-N1-C6	-2.42	120.68	125.11
160	TE	501	GTP	C2-N1-C6	-2.42	120.68	125.11
160	UD	501	GTP	C2-N1-C6	-2.42	120.68	125.11
160	Ab	501	GTP	C2-N1-C6	-2.42	120.68	125.11
160	LT	602	GTP	C2-N1-C6	-2.42	120.68	125.11
160	EU	501	GTP	C2-N1-C6	-2.42	120.68	125.11
160	IA	501	GTP	C2-N1-C6	-2.42	120.68	125.11
160	NX	501	GTP	C2-N1-C6	-2.42	120.68	125.11
160	XW	602	GTP	C2-N1-C6	-2.42	120.68	125.11
160	HK	501	GTP	C2-N1-C6	-2.42	120.69	125.11
160	JA	501	GTP	C2-N1-C6	-2.41	120.69	125.11
160	SK	602	GTP	C2-N1-C6	-2.41	120.69	125.11
160	SO	501	GTP	C2-N1-C6	-2.41	120.69	125.11
160	LD	602	GTP	C2-N1-C6	-2.41	120.70	125.11
160	TT	602	GTP	C2-N1-C6	-2.41	120.70	125.11
160	SA	501	GTP	O2B-PB-O3A	2.41	113.78	107.27
158	TP	501	GDP	O6-C6-N1	-2.41	117.76	120.62
160	LL	501	GTP	C2-N1-C6	-2.41	120.70	125.11
160	Ad	602	GTP	O4'-C1'-N9	2.41	111.94	108.75
160	FA	602	GTP	C2-N1-C6	-2.41	120.70	125.11
160	OF	501	GTP	C2-N1-C6	-2.41	120.71	125.11
160	AL	602	GTP	C2-N1-C6	-2.41	120.71	125.11
160	Af	501	GTP	C2-N1-C6	-2.41	120.71	125.11
160	IM	602	GTP	C2-N1-C6	-2.40	120.71	125.11
160	SG	501	GTP	C2-N1-C6	-2.40	120.71	125.11
160	ZN	602	GTP	C2-N1-C6	-2.40	120.71	125.11
160	XU	501	GTP	C2-N1-C6	-2.40	120.71	125.11
160	FS	602	GTP	C2-N1-C6	-2.40	120.71	125.11
160	HQ	602	GTP	C2-N1-C6	-2.40	120.71	125.11
160	ZV	602	GTP	C2-N1-C6	-2.40	120.71	125.11
160	MR	602	GTP	C2-N1-C6	-2.40	120.71	125.11
160	ZT	602	GTP	C2-N1-C6	-2.40	120.71	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	MH	501	GTP	C2-N1-C6	-2.40	120.71	125.11
158	IB	501	GDP	O4'-C1'-N9	2.40	111.93	108.75
160	KR	602	GTP	C2-N1-C6	-2.40	120.72	125.11
160	UH	501	GTP	C2-N1-C6	-2.40	120.72	125.11
158	YW	501	GDP	O4'-C1'-N9	2.40	111.93	108.75
160	HG	501	GTP	C2-N1-C6	-2.40	120.72	125.11
160	MN	502	GTP	C2-N1-C6	-2.40	120.72	125.11
160	ZR	602	GTP	C2-N1-C6	-2.40	120.72	125.11
160	ZH	501	GTP	C2-N1-C6	-2.40	120.72	125.11
160	UR	501	GTP	C2-N1-C6	-2.40	120.72	125.11
158	MQ	501	GDP	O4'-C1'-N9	2.40	111.92	108.75
160	GI	501	GTP	C2-N1-C6	-2.40	120.72	125.11
160	AN	501	GTP	C2-N1-C6	-2.39	120.73	125.11
160	YE	602	GTP	C2-N1-C6	-2.39	120.73	125.11
160	LZ	501	GTP	C2-N1-C6	-2.39	120.73	125.11
160	UP	501	GTP	C2-N1-C6	-2.39	120.73	125.11
158	HP	501	GDP	O4'-C1'-N9	2.39	111.92	108.75
160	BD	602	GTP	C2-N1-C6	-2.39	120.73	125.11
160	MZ	602	GTP	C2-N1-C6	-2.39	120.73	125.11
160	HY	501	GTP	C2-N1-C6	-2.39	120.74	125.11
160	IY	501	GTP	C2-N1-C6	-2.39	120.74	125.11
160	GM	501	GTP	C2-N1-C6	-2.39	120.74	125.11
160	YV	602	GTP	C2-N1-C6	-2.39	120.74	125.11
160	BZ	501	GTP	C2-N1-C6	-2.39	120.74	125.11
158	XN	501	GDP	O4'-C1'-N9	2.39	111.91	108.75
160	SC	602	GTP	C2-N1-C6	-2.38	120.74	125.11
160	YJ	602	GTP	C2-N1-C6	-2.38	120.75	125.11
160	II	501	GTP	O3B-PB-O1B	-2.38	103.53	110.70
160	AR	602	GTP	C2-N1-C6	-2.38	120.75	125.11
160	RU	501	GTP	C2-N1-C6	-2.38	120.75	125.11
160	OD	602	GTP	C2-N1-C6	-2.38	120.75	125.11
160	RS	501	GTP	C2-N1-C6	-2.38	120.75	125.11
160	TM	501	GTP	C2-N1-C6	-2.38	120.75	125.11
158	RN	501	GDP	O4'-C1'-N9	2.38	111.90	108.75
160	KX	501	GTP	C2-N1-C6	-2.38	120.75	125.11
160	TK	501	GTP	C2-N1-C6	-2.38	120.75	125.11
160	Aj	501	GTP	C2-N1-C6	-2.38	120.76	125.11
160	RQ	501	GTP	C2-N1-C6	-2.38	120.76	125.11
160	XG	602	GTP	C2-N1-C6	-2.38	120.76	125.11
160	RG	501	GTP	C2-N1-C6	-2.38	120.76	125.11
160	NB	501	GTP	C2-N1-C6	-2.38	120.76	125.11
160	NN	501	GTP	C2-N1-C6	-2.38	120.76	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	SY	602	GTP	C2-N1-C6	-2.38	120.76	125.11
160	UJ	501	GTP	O3B-PB-O1B	-2.38	103.56	110.70
160	FI	602	GTP	C2-N1-C6	-2.38	120.76	125.11
160	GK	602	GTP	C2-N1-C6	-2.38	120.76	125.11
160	AF	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	SE	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	QU	602	GTP	C2-N1-C6	-2.37	120.77	125.11
160	FC	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	LX	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	ZZ	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	ON	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	OV	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	RA	602	GTP	C2-N1-C6	-2.37	120.77	125.11
160	HE	602	GTP	C2-N1-C6	-2.37	120.77	125.11
160	ND	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	LH	501	GTP	C2-N1-C6	-2.37	120.77	125.11
160	NF	502	GTP	C2-N1-C6	-2.37	120.77	125.11
160	AJ	501	GTP	C2-N1-C6	-2.37	120.78	125.11
160	YA	602	GTP	C2-N1-C6	-2.37	120.78	125.11
156	7f	4702	ATP	C5-C6-N6	2.37	123.92	120.31
160	AZ	501	GTP	C2-N1-C6	-2.37	120.78	125.11
160	OJ	602	GTP	C2-N1-C6	-2.37	120.78	125.11
160	LF	602	GTP	C2-N1-C6	-2.37	120.78	125.11
160	LR	501	GTP	C2-N1-C6	-2.37	120.78	125.11
160	SM	501	GTP	C2-N1-C6	-2.37	120.78	125.11
160	LP	502	GTP	C2-N1-C6	-2.37	120.78	125.11
158	XZ	501	GDP	O4'-C1'-N9	2.36	111.88	108.75
160	QK	602	GTP	C2-N1-C6	-2.36	120.78	125.11
156	8f	4704	ATP	C5-C6-N6	2.36	123.91	120.31
160	EM	501	GTP	C2-N1-C6	-2.36	120.79	125.11
160	MT	501	GTP	C2-N1-C6	-2.36	120.79	125.11
160	HW	501	GTP	C2-N1-C6	-2.36	120.79	125.11
158	ER	501	GDP	O4'-C1'-N9	2.36	111.88	108.75
160	FW	602	GTP	O4'-C1'-N9	2.36	111.88	108.75
156	9e	5004	ATP	C5-C6-N6	2.36	123.91	120.31
158	AS	501	GDP	O4'-C1'-N9	2.36	111.88	108.75
160	BP	501	GTP	O4'-C1'-N9	2.36	111.88	108.75
160	Al	602	GTP	C2-N1-C6	-2.36	120.79	125.11
160	GE	602	GTP	C2-N1-C6	-2.36	120.79	125.11
160	UF	501	GTP	C2-N1-C6	-2.36	120.79	125.11
160	YT	602	GTP	C2-N1-C6	-2.36	120.80	125.11
160	JP	602	GTP	O4'-C1'-N9	2.36	111.87	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	ZB	501	GTP	C2-N1-C6	-2.35	120.80	125.11
160	ZX	501	GTP	C2-N1-C6	-2.35	120.80	125.11
160	YR	501	GTP	C2-N1-C6	-2.35	120.80	125.11
160	EY	501	GTP	C2-N1-C6	-2.35	120.80	125.11
160	HM	602	GTP	C2-N1-C6	-2.35	120.80	125.11
160	QY	501	GTP	C2-N1-C6	-2.35	120.81	125.11
158	FH	501	GDP	O4'-C1'-N9	2.35	111.86	108.75
160	VC	501	GTP	O3B-PB-O1B	-2.35	103.63	110.70
160	KB	501	GTP	C2-N1-C6	-2.35	120.81	125.11
160	YC	501	GTP	C2-N1-C6	-2.35	120.81	125.11
160	CV	501	GTP	O4'-C1'-N9	2.35	111.86	108.75
160	QQ	501	GTP	C2-N1-C6	-2.35	120.81	125.11
160	RO	602	GTP	C2-N1-C6	-2.35	120.81	125.11
160	HO	501	GTP	C2-N1-C6	-2.35	120.81	125.11
160	IW	501	GTP	C2-N1-C6	-2.35	120.81	125.11
160	MX	502	GTP	C2-N1-C6	-2.35	120.82	125.11
160	EW	501	GTP	O3B-PB-O1B	-2.35	103.65	110.70
158	TP	501	GDP	O4'-C1'-N9	2.35	111.86	108.75
160	KD	501	GTP	C2-N1-C6	-2.35	120.82	125.11
160	TV	501	GTP	C2-N1-C6	-2.35	120.82	125.11
160	XK	501	GTP	C2-N1-C6	-2.35	120.82	125.11
160	DJ	501	GTP	C2-N1-C6	-2.34	120.82	125.11
160	FM	501	GTP	C2-N1-C6	-2.34	120.82	125.11
160	OZ	501	GTP	C2-N1-C6	-2.34	120.82	125.11
160	NT	602	GTP	C2-N1-C6	-2.34	120.82	125.11
160	FK	501	GTP	C2-N1-C6	-2.34	120.82	125.11
160	NV	503	GTP	C2-N1-C6	-2.34	120.82	125.11
160	MD	502	GTP	C2-N1-C6	-2.34	120.82	125.11
160	RW	501	GTP	C2-N1-C6	-2.34	120.82	125.11
160	QO	602	GTP	C2-N1-C6	-2.34	120.82	125.11
156	8f	4703	ATP	C5-C6-N6	2.34	123.88	120.31
160	BP	501	GTP	C2-N1-C6	-2.34	120.83	125.11
156	9f	4701	ATP	C5-C6-N6	2.34	123.88	120.31
160	HS	501	GTP	C2-N1-C6	-2.34	120.83	125.11
156	7b	4702	ATP	C5-C6-N6	2.34	123.87	120.31
160	OB	501	GTP	C2-N1-C6	-2.34	120.83	125.11
160	KT	501	GTP	C2-N1-C6	-2.34	120.83	125.11
160	ML	602	GTP	C2-N1-C6	-2.34	120.83	125.11
160	CL	501	GTP	O4'-C1'-N9	2.34	111.84	108.75
160	NJ	503	GTP	C2-N1-C6	-2.34	120.83	125.11
160	QM	501	GTP	C2-N1-C6	-2.33	120.84	125.11
160	UT	501	GTP	C2-N1-C6	-2.33	120.84	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	BL	501	GTP	C2-N1-C6	-2.33	120.84	125.11
160	MP	501	GTP	C2-N1-C6	-2.33	120.84	125.11
160	SS	602	GTP	O4'-C1'-N9	2.33	111.84	108.75
160	PQ	501	GTP	C2-N1-C6	-2.33	120.84	125.11
160	YZ	602	GTP	C2-N1-C6	-2.33	120.84	125.11
156	7b	4703	ATP	C5-C6-N6	2.33	123.86	120.31
160	QS	501	GTP	C2-N1-C6	-2.33	120.84	125.11
158	ZI	501	GDP	O4'-C1'-N9	2.33	111.83	108.75
160	FQ	501	GTP	C2-N1-C6	-2.33	120.85	125.11
160	AT	501	GTP	C2-N1-C6	-2.33	120.85	125.11
160	VC	501	GTP	O2A-PA-O1A	2.33	123.27	112.44
160	DM	501	GTP	C2-N1-C6	-2.33	120.85	125.11
160	IS	501	GTP	C2-N1-C6	-2.33	120.85	125.11
160	CT	602	GTP	O4'-C1'-N9	2.33	111.83	108.75
160	DO	501	GTP	O6-C6-C5	-2.33	119.71	124.32
160	UN	602	GTP	C2-N1-C6	-2.33	120.85	125.11
160	SA	501	GTP	O3B-PB-O1B	-2.32	103.71	110.70
160	AV	501	GTP	C2-N1-C6	-2.32	120.85	125.11
160	CB	501	GTP	O4'-C1'-N9	2.32	111.83	108.75
160	WW	501	GTP	C2-N1-C6	-2.32	120.86	125.11
160	Ah	501	GTP	C2-N1-C6	-2.32	120.86	125.11
160	CN	602	GTP	C2-N1-C6	-2.32	120.86	125.11
160	NH	502	GTP	C2-N1-C6	-2.32	120.86	125.11
160	UB	501	GTP	C2-N1-C6	-2.32	120.86	125.11
160	ZF	602	GTP	C2-N1-C6	-2.32	120.86	125.11
160	EA	501	GTP	C2-N1-C6	-2.32	120.86	125.11
158	YK	501	GDP	O4'-C1'-N9	2.32	111.82	108.75
156	7a	4702	ATP	C5-C6-N6	2.32	123.84	120.31
158	TL	501	GDP	O6-C6-N1	-2.32	117.87	120.62
156	7f	4703	ATP	C5-C6-N6	2.32	123.84	120.31
160	GC	602	GTP	C2-N1-C6	-2.32	120.87	125.11
160	AD	501	GTP	O4'-C1'-N9	2.32	111.82	108.75
156	7b	4701	ATP	C5-C6-N6	2.32	123.84	120.31
160	MV	502	GTP	C2-N1-C6	-2.32	120.87	125.11
160	RK	602	GTP	C2-N1-C6	-2.32	120.87	125.11
160	SI	501	GTP	C2-N1-C6	-2.32	120.87	125.11
160	EK	602	GTP	C2-N1-C6	-2.32	120.87	125.11
160	AP	602	GTP	C2-N1-C6	-2.32	120.87	125.11
160	DQ	501	GTP	C2-N1-C6	-2.32	120.87	125.11
160	EO	501	GTP	C2-N1-C6	-2.31	120.87	125.11
156	9f	4704	ATP	C5-C6-N6	2.31	123.83	120.31
160	XQ	501	GTP	C2-N1-C6	-2.31	120.88	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	GR	501	GDP	O4'-C1'-N9	2.31	111.81	108.75
156	7a	4704	ATP	C5-C6-N6	2.31	123.83	120.31
156	9f	4703	ATP	C5-C6-N6	2.31	123.83	120.31
160	AX	501	GTP	C2-N1-C6	-2.31	120.88	125.11
158	SZ	501	GDP	O6-C6-N1	-2.31	117.88	120.62
160	QW	501	GTP	C2-N1-C6	-2.31	120.89	125.11
160	QG	602	GTP	C2-N1-C6	-2.31	120.89	125.11
160	OL	602	GTP	C2-N1-C6	-2.31	120.89	125.11
160	RE	501	GTP	C2-N1-C6	-2.31	120.89	125.11
160	KF	602	GTP	C2-N1-C6	-2.31	120.89	125.11
160	WA	602	GTP	O6-C6-C5	-2.31	119.75	124.32
160	CX	602	GTP	O4'-C1'-N9	2.31	111.80	108.75
160	WE	602	GTP	O4'-C1'-N9	2.30	111.80	108.75
156	7e	4703	ATP	C5-C6-N6	2.30	123.82	120.31
160	AH	501	GTP	C2-N1-C6	-2.30	120.89	125.11
160	GO	501	GTP	C2-N1-C6	-2.30	120.89	125.11
158	TS	501	GDP	O4'-C1'-N9	2.30	111.80	108.75
160	DY	501	GTP	C2-N1-C6	-2.30	120.89	125.11
156	7f	4704	ATP	C5-C6-N6	2.30	123.82	120.31
160	ZD	501	GTP	C2-N1-C6	-2.30	120.90	125.11
160	TX	602	GTP	O2A-PA-O1A	2.30	123.15	112.44
160	EI	501	GTP	C2-N1-C6	-2.30	120.90	125.11
160	JC	501	GTP	C2-N1-C6	-2.30	120.90	125.11
160	OX	602	GTP	C2-N1-C6	-2.30	120.90	125.11
160	WS	501	GTP	O3B-PB-O1B	-2.30	103.79	110.70
160	PO	602	GTP	C2-N1-C6	-2.30	120.90	125.11
160	LN	501	GTP	C2-N1-C6	-2.30	120.90	125.11
160	TI	501	GTP	C2-N1-C6	-2.30	120.90	125.11
160	GQ	602	GTP	C2-N1-C6	-2.30	120.91	125.11
156	8e	4702	ATP	C5-C6-N6	2.30	123.81	120.31
160	DL	501	GTP	C2-N1-C6	-2.30	120.91	125.11
156	9e	5001	ATP	C5-C6-N6	2.29	123.81	120.31
160	NR	502	GTP	C2-N1-C6	-2.29	120.91	125.11
160	WM	602	GTP	C2-N1-C6	-2.29	120.91	125.11
160	YX	602	GTP	C2-N1-C6	-2.29	120.91	125.11
160	BX	602	GTP	C2-N1-C6	-2.29	120.91	125.11
160	EE	501	GTP	C2-N1-C6	-2.29	120.91	125.11
160	YN	501	GTP	C2-N1-C6	-2.29	120.91	125.11
160	CR	501	GTP	C2-N1-C6	-2.29	120.92	125.11
160	YG	602	GTP	C2-N1-C6	-2.29	120.92	125.11
160	WC	501	GTP	C2-N1-C6	-2.29	120.92	125.11
156	8f	4702	ATP	C5-C6-N6	2.29	123.80	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	JT	501	GTP	C2-N1-C6	-2.29	120.92	125.11
160	WA	602	GTP	O4'-C1'-N9	2.29	111.78	108.75
156	8e	4704	ATP	C5-C6-N6	2.29	123.79	120.31
160	JE	501	GTP	C2-N1-C6	-2.29	120.92	125.11
160	SW	501	GTP	C2-N1-C6	-2.28	120.93	125.11
160	LB	501	GTP	C2-N1-C6	-2.28	120.93	125.11
160	PW	501	GTP	C2-N1-C6	-2.28	120.93	125.11
160	IQ	501	GTP	C2-N1-C6	-2.28	120.93	125.11
160	TO	501	GTP	C2-N1-C6	-2.28	120.94	125.11
160	RI	501	GTP	C2-N1-C6	-2.28	120.94	125.11
160	WK	602	GTP	C2-N1-C6	-2.28	120.94	125.11
160	CP	602	GTP	C2-N1-C6	-2.28	120.94	125.11
160	FE	501	GTP	C2-N1-C6	-2.28	120.94	125.11
158	CA	501	GDP	O6-C6-N1	-2.28	117.92	120.62
160	TC	501	GTP	C2-N1-C6	-2.27	120.95	125.11
160	XA	501	GTP	C2-N1-C6	-2.27	120.95	125.11
158	UQ	501	GDP	O4'-C1'-N9	2.27	111.76	108.75
160	XI	602	GTP	C2-N1-C6	-2.27	120.95	125.11
160	DF	501	GTP	C2-N1-C6	-2.27	120.95	125.11
160	HU	602	GTP	C2-N1-C6	-2.27	120.95	125.11
158	UE	501	GDP	O4'-C1'-N9	2.27	111.75	108.75
160	KV	602	GTP	C2-N1-C6	-2.27	120.96	125.11
160	ZL	602	GTP	C2-N1-C6	-2.27	120.96	125.11
158	DV	501	GDP	O4'-C1'-N9	2.27	111.75	108.75
156	7e	4704	ATP	C5-C6-N6	2.26	123.76	120.31
160	SU	501	GTP	C2-N1-C6	-2.26	120.97	125.11
160	YP	602	GTP	C2-N1-C6	-2.26	120.97	125.11
160	NP	501	GTP	C2-N1-C6	-2.26	120.97	125.11
160	TZ	602	GTP	C2-N1-C6	-2.26	120.97	125.11
160	VG	501	GTP	C2-N1-C6	-2.26	120.97	125.11
160	GA	602	GTP	C2-N1-C6	-2.26	120.97	125.11
160	QC	501	GTP	C2-N1-C6	-2.26	120.98	125.11
160	IQ	501	GTP	O6-C6-C5	-2.26	119.84	124.32
160	HE	602	GTP	O4'-C1'-N9	2.26	111.74	108.75
160	WS	501	GTP	O2B-PB-O3A	2.26	113.37	107.27
158	BI	501	GDP	O4'-C1'-N9	2.26	111.74	108.75
158	TD	501	GDP	O6-C6-N1	-2.26	117.94	120.62
156	8e	4703	ATP	C5-C6-N6	2.25	123.75	120.31
160	WY	602	GTP	C2-N1-C6	-2.25	120.98	125.11
160	UJ	501	GTP	O2A-PA-O1A	2.25	122.93	112.44
160	JV	501	GTP	O4'-C1'-N9	2.25	111.73	108.75
160	VS	501	GTP	C2-N1-C6	-2.25	120.98	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	7a	4701	ATP	C5-C6-N6	2.25	123.75	120.31
160	BT	602	GTP	C2-N1-C6	-2.25	120.98	125.11
160	BV	602	GTP	C2-N1-C6	-2.25	120.99	125.11
158	SN	501	GDP	O6-C6-N1	-2.25	117.95	120.62
160	CZ	501	GTP	C2-N1-C6	-2.25	120.99	125.11
160	CT	602	GTP	O6-C6-C5	-2.25	119.86	124.32
156	7e	4702	ATP	C5-C6-N6	2.25	123.74	120.31
160	CI	501	GTP	C2-N1-C6	-2.25	120.99	125.11
160	NZ	602	GTP	C2-N1-C6	-2.25	120.99	125.11
160	TG	501	GTP	C2-N1-C6	-2.25	120.99	125.11
160	BB	501	GTP	C2-N1-C6	-2.25	121.00	125.11
160	VO	501	GTP	O2A-PA-O1A	2.25	122.89	112.44
160	KJ	602	GTP	C2-N1-C6	-2.24	121.00	125.11
160	PK	501	GTP	C2-N1-C6	-2.24	121.00	125.11
160	EC	501	GTP	O6-C6-C5	-2.24	119.88	124.32
160	CB	501	GTP	C2-N1-C6	-2.24	121.00	125.11
160	YL	602	GTP	C2-N1-C6	-2.24	121.00	125.11
160	IE	501	GTP	O6-C6-C5	-2.24	119.88	124.32
160	KP	602	GTP	C2-N1-C6	-2.24	121.01	125.11
160	CD	602	GTP	C2-N1-C6	-2.24	121.01	125.11
158	BO	501	GDP	C5-C6-N1	2.24	118.34	114.07
160	TX	602	GTP	O3G-PG-O2G	2.24	116.19	107.80
156	9e	5003	ATP	C5-C6-N6	2.24	123.72	120.31
160	WO	501	GTP	C2-N1-C6	-2.24	121.02	125.11
160	KH	501	GTP	C2-N1-C6	-2.24	121.02	125.11
158	EB	501	GDP	O4'-C1'-N9	2.23	111.71	108.75
160	PE	602	GTP	C2-N1-C6	-2.23	121.02	125.11
160	VI	501	GTP	C2-N1-C6	-2.23	121.02	125.11
160	CV	501	GTP	O6-C6-C5	-2.23	119.90	124.32
160	CF	501	GTP	C2-N1-C6	-2.23	121.03	125.11
160	IU	501	GTP	O6-C6-C5	-2.23	119.90	124.32
160	CJ	501	GTP	C2-N1-C6	-2.23	121.03	125.11
160	VU	501	GTP	C2-N1-C6	-2.23	121.03	125.11
160	UW	602	GTP	C2-N1-C6	-2.23	121.04	125.11
160	DH	501	GTP	C2-N1-C6	-2.22	121.04	125.11
160	SQ	602	GTP	C2-N1-C6	-2.22	121.04	125.11
160	QI	602	GTP	O6-C6-C5	-2.22	119.92	124.32
158	GF	501	GDP	O4'-C1'-N9	2.22	111.69	108.75
160	WG	501	GTP	O3G-PG-O2G	2.22	116.12	107.80
160	ZJ	501	GTP	C2-N1-C6	-2.22	121.05	125.11
160	QA	602	GTP	C2-N1-C6	-2.22	121.05	125.11
160	VE	501	GTP	C2-N1-C6	-2.22	121.05	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	KZ	602	GTP	O4'-C1'-N9	2.21	111.68	108.75
157	8f	4701	ADP	O4'-C1'-N9	2.21	111.68	108.75
160	EG	501	GTP	C2-N1-C6	-2.21	121.06	125.11
160	VO	501	GTP	O3G-PG-O2G	2.21	116.09	107.80
160	PU	602	GTP	C2-N1-C6	-2.21	121.06	125.11
160	VY	501	GTP	C2-N1-C6	-2.21	121.06	125.11
160	IG	501	GTP	O6-C6-C5	-2.21	119.94	124.32
160	JR	602	GTP	O6-C6-C5	-2.21	119.94	124.32
160	HI	602	GTP	C2-N1-C6	-2.21	121.07	125.11
160	PM	602	GTP	C2-N1-C6	-2.21	121.07	125.11
160	VQ	501	GTP	C2-N1-C6	-2.21	121.07	125.11
160	JZ	501	GTP	C2-N1-C6	-2.20	121.08	125.11
160	BJ	602	GTP	C2-N1-C6	-2.20	121.08	125.11
160	DD	501	GTP	C2-N1-C6	-2.20	121.08	125.11
158	CA	501	GDP	O4'-C1'-N9	2.20	111.66	108.75
158	GJ	501	GDP	O6-C6-N1	-2.20	118.01	120.62
158	AY	501	GDP	O4'-C1'-N9	2.19	111.66	108.75
158	ID	501	GDP	C5-C6-N1	2.19	118.25	114.07
160	UL	602	GTP	C2-N1-C6	-2.19	121.10	125.11
160	JJ	501	GTP	O4'-C1'-N9	2.19	111.65	108.75
160	JX	501	GTP	O6-C6-C5	-2.19	119.98	124.32
158	HD	501	GDP	C5-C6-N1	2.19	118.25	114.07
158	RR	501	GDP	O4'-C1'-N9	2.19	111.65	108.75
158	GF	501	GDP	O6-C6-N1	-2.19	118.02	120.62
158	MQ	501	GDP	C5-C6-N1	2.19	118.24	114.07
160	YA	602	GTP	O4'-C1'-N9	2.19	111.64	108.75
160	WG	501	GTP	O2A-PA-O1A	2.18	122.60	112.44
160	DS	602	GTP	O6-C6-C5	-2.18	120.00	124.32
158	ZW	501	GDP	O4'-C1'-N9	2.18	111.64	108.75
160	YV	602	GTP	O4'-C1'-N9	2.18	111.64	108.75
158	CH	501	GDP	O4'-C1'-N9	2.18	111.63	108.75
158	RL	501	GDP	O4'-C1'-N9	2.18	111.63	108.75
158	GT	501	GDP	C8-N7-C5	2.18	106.26	102.55
160	XE	501	GTP	O6-C6-C5	-2.18	120.00	124.32
160	UY	602	GTP	C2-N1-C6	-2.18	121.12	125.11
160	SA	501	GTP	O3G-PG-O2G	2.18	115.96	107.80
160	XC	602	GTP	C2-N1-C6	-2.17	121.13	125.11
160	VA	501	GTP	C2-N1-C6	-2.17	121.13	125.11
158	AA	501	GDP	O4'-C1'-N9	2.17	111.62	108.75
160	JP	602	GTP	N1-C2-N3	-2.17	119.34	123.32
160	CL	501	GTP	O6-C6-C5	-2.17	120.02	124.32
158	IL	501	GDP	C5-C6-N1	2.17	118.20	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	SD	501	GDP	O4'-C1'-N9	2.17	111.62	108.75
160	JN	501	GTP	C2-N1-C6	-2.17	121.14	125.11
160	VM	602	GTP	C2-N1-C6	-2.17	121.14	125.11
158	IP	501	GDP	C5-C6-N1	2.17	118.20	114.07
160	PY	602	GTP	C2-N1-C6	-2.16	121.15	125.11
158	EB	501	GDP	C5-C6-N1	2.16	118.20	114.07
160	DB	501	GTP	C2-N1-C6	-2.16	121.15	125.11
160	PI	602	GTP	C2-N1-C6	-2.16	121.16	125.11
158	CW	501	GDP	C5-C6-N1	2.16	118.19	114.07
160	PG	501	GTP	C2-N1-C6	-2.16	121.16	125.11
160	PS	501	GTP	C2-N1-C6	-2.16	121.16	125.11
160	BN	602	GTP	O6-C6-C5	-2.16	120.05	124.32
160	DU	501	GTP	O6-C6-C5	-2.16	120.05	124.32
160	XW	602	GTP	O4'-C1'-N9	2.16	111.60	108.75
160	WI	602	GTP	C2-N1-C6	-2.16	121.16	125.11
158	LI	501	GDP	C8-N7-C5	2.15	106.22	102.55
158	HT	501	GDP	O4'-C1'-N9	2.15	111.60	108.75
160	ZH	501	GTP	O4'-C1'-N9	2.15	111.60	108.75
158	XF	501	GDP	C5-C6-N1	2.15	118.17	114.07
158	CK	501	GDP	C5-C6-N1	2.15	118.17	114.07
158	CU	501	GDP	C5-C6-N1	2.15	118.17	114.07
158	ZW	501	GDP	C8-N7-C5	2.15	106.21	102.55
158	WF	501	GDP	C5-C6-N1	2.15	118.17	114.07
160	QE	501	GTP	C2-N1-C6	-2.15	121.17	125.11
160	VW	501	GTP	C2-N1-C6	-2.15	121.17	125.11
158	SD	501	GDP	C8-N7-C5	2.15	106.21	102.55
158	GB	501	GDP	O6-C6-N1	-2.15	118.07	120.62
158	Ae	501	GDP	O2A-PA-O3A	2.15	113.08	107.27
158	HL	501	GDP	C5-C6-N1	2.15	118.17	114.07
158	EX	501	GDP	C8-N7-C5	2.15	106.20	102.55
160	UD	501	GTP	C8-N7-C5	2.15	106.20	102.55
160	FK	501	GTP	C8-N7-C5	2.14	106.20	102.55
160	JX	501	GTP	O4'-C1'-N9	2.14	111.59	108.75
158	GV	501	GDP	O6-C6-N1	-2.14	118.08	120.62
160	SS	602	GTP	O3G-PG-O2G	2.14	115.83	107.80
160	UP	501	GTP	C8-N7-C5	2.14	106.19	102.55
158	ZM	501	GDP	O6-C6-N1	-2.14	118.08	120.62
158	GZ	501	GDP	C5-C6-N1	2.14	118.15	114.07
160	GE	602	GTP	C8-N7-C5	2.14	106.19	102.55
158	TF	501	GDP	O6-C6-N1	-2.14	118.08	120.62
158	Ak	501	GDP	C8-N7-C5	2.13	106.18	102.55
158	AO	501	GDP	C5-C6-N1	2.13	118.14	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	GH	501	GDP	C8-N7-C5	2.13	106.18	102.55
160	WE	602	GTP	O6-C6-C5	-2.13	120.09	124.32
160	GU	602	GTP	C8-N7-C5	2.13	106.18	102.55
158	ZM	501	GDP	C8-N7-C5	2.13	106.17	102.55
158	DV	501	GDP	C5-C6-N1	2.13	118.13	114.07
160	VK	501	GTP	C2-N1-C6	-2.13	121.21	125.11
158	EZ	602	GDP	C8-N7-C5	2.13	106.17	102.55
160	JP	602	GTP	C2-N1-C6	-2.13	121.21	125.11
160	JH	602	GTP	O6-C6-C5	-2.13	120.10	124.32
158	AM	501	GDP	O4'-C1'-N9	2.13	111.57	108.75
158	OW	501	GDP	O4'-C1'-N9	2.13	111.57	108.75
158	BC	501	GDP	C5-C6-N1	2.13	118.13	114.07
158	AC	501	GDP	C5-C6-N1	2.13	118.13	114.07
158	ZM	501	GDP	O4'-C1'-N9	2.13	111.56	108.75
160	ON	501	GTP	C8-N7-C5	2.13	106.17	102.55
160	FG	501	GTP	O6-C6-C5	-2.13	120.11	124.32
160	HM	602	GTP	O4'-C1'-N9	2.12	111.56	108.75
158	ST	501	GDP	O6-C6-N1	-2.12	118.10	120.62
158	FX	501	GDP	C5-C6-N1	2.12	118.12	114.07
160	OP	501	GTP	C8-N7-C5	2.12	106.16	102.55
160	WQ	602	GTP	C2-N1-C6	-2.12	121.23	125.11
160	JH	602	GTP	O4'-C1'-N9	2.12	111.56	108.75
158	RP	501	GDP	O4'-C1'-N9	2.12	111.56	108.75
158	WD	501	GDP	C5-C6-N1	2.12	118.11	114.07
160	TQ	602	GTP	C8-N7-C5	2.12	106.16	102.55
158	RX	501	GDP	O4'-C1'-N9	2.12	111.55	108.75
158	ZY	501	GDP	C8-N7-C5	2.12	106.15	102.55
160	CD	602	GTP	O4'-C1'-N9	2.12	111.55	108.75
158	JG	501	GDP	C5-C6-N1	2.12	118.11	114.07
158	HF	501	GDP	C8-N7-C5	2.12	106.15	102.55
158	Ai	501	GDP	O4'-C1'-N9	2.12	111.55	108.75
158	ZY	501	GDP	O6-C6-N1	-2.11	118.11	120.62
158	IN	501	GDP	C5-C6-N1	2.11	118.10	114.07
158	SJ	501	GDP	O4'-C1'-N9	2.11	111.55	108.75
158	FJ	501	GDP	C8-N7-C5	2.11	106.14	102.55
158	FL	602	GDP	C8-N7-C5	2.11	106.14	102.55
160	CX	602	GTP	O6-C6-C5	-2.11	120.14	124.32
158	IV	501	GDP	C5-C6-N1	2.11	118.09	114.07
158	RX	501	GDP	C8-N7-C5	2.11	106.14	102.55
160	IK	602	GTP	O6-C6-C5	-2.11	120.14	124.32
160	DU	501	GTP	O4'-C1'-N9	2.11	111.54	108.75
158	GR	501	GDP	O6-C6-N1	-2.11	118.12	120.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	Ai	501	GDP	C8-N7-C5	2.11	106.13	102.55
160	TG	501	GTP	C8-N7-C5	2.11	106.13	102.55
158	CS	501	GDP	C5-C6-N1	2.10	118.08	114.07
158	JY	501	GDP	C5-C6-N1	2.10	118.08	114.07
158	NY	501	GDP	O4'-C1'-N9	2.10	111.53	108.75
158	JS	501	GDP	C5-C6-N1	2.10	118.08	114.07
158	OK	501	GDP	O4'-C1'-N9	2.10	111.53	108.75
158	BU	501	GDP	C5-C6-N1	2.10	118.08	114.07
158	SJ	501	GDP	C8-N7-C5	2.10	106.12	102.55
160	JV	501	GTP	O6-C6-C5	-2.10	120.16	124.32
158	YK	501	GDP	C8-N7-C5	2.10	106.12	102.55
158	JW	501	GDP	C5-C6-N1	2.10	118.07	114.07
160	FI	602	GTP	O4'-C1'-N9	2.10	111.52	108.75
160	HY	501	GTP	O4'-C1'-N9	2.10	111.52	108.75
158	HH	501	GDP	O4'-C1'-N9	2.09	111.52	108.75
158	HR	501	GDP	O4'-C1'-N9	2.09	111.52	108.75
158	WL	501	GDP	C5-C6-N1	2.09	118.06	114.07
160	YJ	602	GTP	O4'-C1'-N9	2.09	111.52	108.75
158	RR	501	GDP	C8-N7-C5	2.09	106.11	102.55
160	OB	501	GTP	C8-N7-C5	2.09	106.11	102.55
160	FI	602	GTP	O6-C6-C5	-2.09	120.17	124.32
158	ZY	501	GDP	O4'-C1'-N9	2.09	111.52	108.75
158	LU	501	GDP	O6-C6-N1	-2.09	118.14	120.62
160	GW	501	GTP	C8-N7-C5	2.09	106.11	102.55
158	FT	501	GDP	C8-N7-C5	2.09	106.10	102.55
158	GX	501	GDP	C8-N7-C5	2.09	106.10	102.55
160	JJ	501	GTP	O6-C6-C5	-2.09	120.18	124.32
158	SN	501	GDP	C8-N7-C5	2.09	106.10	102.55
158	SB	501	GDP	O4'-C1'-N9	2.09	111.51	108.75
160	WU	501	GTP	C2-N1-C6	-2.09	121.29	125.11
160	GI	501	GTP	C8-N7-C5	2.09	106.10	102.55
158	EV	501	GDP	C8-N7-C5	2.09	106.10	102.55
158	IB	501	GDP	C8-N7-C5	2.08	106.10	102.55
158	DG	501	GDP	O4'-C1'-N9	2.08	111.51	108.75
158	IH	501	GDP	C5-C6-N1	2.08	118.04	114.07
158	WX	501	GDP	C5-C6-N1	2.08	118.04	114.07
160	EY	501	GTP	C8-N7-C5	2.08	106.09	102.55
160	BH	602	GTP	O6-C6-C5	-2.08	120.19	124.32
158	GF	501	GDP	C8-N7-C5	2.08	106.09	102.55
158	HR	501	GDP	C8-N7-C5	2.08	106.09	102.55
158	EL	501	GDP	C8-N7-C5	2.08	106.09	102.55
158	BG	501	GDP	O4'-C1'-N9	2.08	111.50	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	DT	501	GDP	C5-C6-N1	2.08	118.03	114.07
160	KZ	602	GTP	O6-C6-C5	-2.08	120.20	124.32
158	HX	501	GDP	C8-N7-C5	2.08	106.08	102.55
158	YD	501	GDP	C8-N7-C5	2.08	106.08	102.55
158	SV	501	GDP	C8-N7-C5	2.08	106.08	102.55
158	HT	501	GDP	O6-C6-N1	-2.07	118.16	120.62
158	Ak	501	GDP	O4'-C1'-N9	2.07	111.50	108.75
158	BS	501	GDP	O4'-C1'-N9	2.07	111.50	108.75
160	XK	501	GTP	O4'-C1'-N9	2.07	111.50	108.75
160	VO	501	GTP	O3B-PB-O1B	-2.07	104.46	110.70
160	BF	602	GTP	O6-C6-C5	-2.07	120.21	124.32
160	XO	602	GTP	O6-C6-C5	-2.07	120.21	124.32
160	GA	602	GTP	N1-C2-N3	-2.07	119.52	123.32
160	VC	501	GTP	O3G-PG-O2G	2.07	115.57	107.80
158	HV	501	GDP	C8-N7-C5	2.07	106.08	102.55
158	RT	501	GDP	C8-N7-C5	2.07	106.08	102.55
158	NM	501	GDP	C8-N7-C5	2.07	106.08	102.55
158	OC	501	GDP	C8-N7-C5	2.07	106.08	102.55
160	GG	501	GTP	C8-N7-C5	2.07	106.08	102.55
158	ZO	501	GDP	C8-N7-C5	2.07	106.07	102.55
160	OZ	501	GTP	C8-N7-C5	2.07	106.07	102.55
158	GD	501	GDP	O6-C6-N1	-2.07	118.16	120.62
160	IQ	501	GTP	N1-C2-N3	-2.07	119.53	123.32
158	AU	501	GDP	C8-N7-C5	2.07	106.07	102.55
160	DW	602	GTP	O6-C6-C5	-2.07	120.22	124.32
160	ES	501	GTP	O6-C6-C5	-2.07	120.22	124.32
160	FW	602	GTP	O6-C6-C5	-2.07	120.22	124.32
158	RX	501	GDP	O6-C6-N1	-2.07	118.16	120.62
158	TP	501	GDP	C8-N7-C5	2.07	106.07	102.55
158	YW	501	GDP	C8-N7-C5	2.07	106.07	102.55
160	GQ	602	GTP	C8-N7-C5	2.07	106.07	102.55
158	OI	501	GDP	O4'-C1'-N9	2.07	111.49	108.75
158	HP	501	GDP	C8-N7-C5	2.07	106.07	102.55
158	Ak	501	GDP	O6-C6-N1	-2.07	118.17	120.62
158	SH	501	GDP	C8-N7-C5	2.07	106.07	102.55
158	TL	501	GDP	C8-N7-C5	2.07	106.07	102.55
158	TU	501	GDP	C8-N7-C5	2.07	106.07	102.55
158	TW	501	GDP	C8-N7-C5	2.07	106.07	102.55
158	JI	501	GDP	C5-C6-N1	2.07	118.01	114.07
158	OO	501	GDP	C8-N7-C5	2.06	106.06	102.55
158	IT	501	GDP	C5-C6-N1	2.06	118.01	114.07
158	IJ	501	GDP	C8-N7-C5	2.06	106.06	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	KM	501	GDP	C8-N7-C5	2.06	106.06	102.55
160	HE	602	GTP	N1-C2-N3	-2.06	119.54	123.32
158	RL	501	GDP	C8-N7-C5	2.06	106.06	102.55
158	MG	501	GDP	O6-C6-N1	-2.06	118.17	120.62
158	TD	501	GDP	C8-N7-C5	2.06	106.06	102.55
158	IF	501	GDP	C5-C6-N1	2.06	118.00	114.07
158	GL	501	GDP	C8-N7-C5	2.06	106.06	102.55
160	TA	602	GTP	C8-N7-C5	2.06	106.06	102.55
158	SJ	501	GDP	O6-C6-N1	-2.06	118.17	120.62
158	SF	501	GDP	O6-C6-N1	-2.06	118.17	120.62
158	ZI	501	GDP	C8-N7-C5	2.06	106.06	102.55
158	FB	501	GDP	C8-N7-C5	2.06	106.06	102.55
160	FY	501	GTP	O4'-C1'-N9	2.06	111.48	108.75
158	NK	501	GDP	C8-N7-C5	2.06	106.06	102.55
160	TR	501	GTP	C8-N7-C5	2.06	106.05	102.55
160	VC	501	GTP	O6-C6-C5	2.06	128.40	124.32
160	TE	501	GTP	C8-N7-C5	2.06	106.05	102.55
160	AB	602	GTP	O6-C6-C5	-2.06	120.24	124.32
158	NA	501	GDP	C8-N7-C5	2.06	106.05	102.55
158	KS	501	GDP	O4'-C1'-N9	2.06	111.47	108.75
158	PA	501	GDP	C8-N7-C5	2.06	106.05	102.55
160	JP	602	GTP	O6-C6-C5	-2.06	120.25	124.32
158	MK	501	GDP	C8-N7-C5	2.06	106.05	102.55
160	FS	602	GTP	C8-N7-C5	2.06	106.05	102.55
158	UK	501	GDP	O4'-C1'-N9	2.05	111.47	108.75
158	DK	501	GDP	C8-N7-C5	2.05	106.05	102.55
158	SR	501	GDP	C8-N7-C5	2.05	106.05	102.55
158	ZU	501	GDP	C8-N7-C5	2.05	106.05	102.55
158	QX	501	GDP	O4'-C1'-N9	2.05	111.47	108.75
158	HJ	501	GDP	C8-N7-C5	2.05	106.05	102.55
160	ND	501	GTP	C8-N7-C5	2.05	106.04	102.55
158	FV	501	GDP	C5-C6-N1	2.05	117.98	114.07
158	GR	501	GDP	C8-N7-C5	2.05	106.04	102.55
158	VB	501	GDP	C8-N7-C5	2.05	106.04	102.55
158	OK	501	GDP	C8-N7-C5	2.05	106.04	102.55
158	QX	501	GDP	C8-N7-C5	2.05	106.04	102.55
160	PC	602	GTP	O6-C6-C5	-2.05	120.25	124.32
158	GH	501	GDP	O6-C6-N1	-2.05	118.19	120.62
158	FF	501	GDP	C8-N7-C5	2.05	106.04	102.55
158	LK	501	GDP	C8-N7-C5	2.05	106.04	102.55
158	ZE	501	GDP	C8-N7-C5	2.05	106.04	102.55
160	GM	501	GTP	C8-N7-C5	2.05	106.04	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	HH	501	GDP	C8-N7-C5	2.05	106.03	102.55
158	SB	501	GDP	C8-N7-C5	2.05	106.03	102.55
158	LE	501	GDP	O4'-C1'-N9	2.05	111.46	108.75
158	Aa	501	GDP	C8-N7-C5	2.05	106.03	102.55
158	Ag	501	GDP	C8-N7-C5	2.05	106.03	102.55
158	RV	501	GDP	C8-N7-C5	2.05	106.03	102.55
158	HF	501	GDP	O4'-C1'-N9	2.05	111.46	108.75
158	KK	501	GDP	C8-N7-C5	2.05	106.03	102.55
160	GK	602	GTP	C8-N7-C5	2.05	106.03	102.55
158	RJ	501	GDP	C8-N7-C5	2.05	106.03	102.55
160	SU	501	GTP	C8-N7-C5	2.05	106.03	102.55
158	OU	501	GDP	O4'-C1'-N9	2.04	111.46	108.75
160	GA	602	GTP	O6-C6-C5	-2.04	120.27	124.32
160	XS	501	GTP	O6-C6-C5	-2.04	120.27	124.32
158	DI	501	GDP	C8-N7-C5	2.04	106.03	102.55
158	LE	501	GDP	C8-N7-C5	2.04	106.03	102.55
158	XR	501	GDP	C8-N7-C5	2.04	106.03	102.55
160	Ad	602	GTP	O6-C6-C5	-2.04	120.27	124.32
158	OW	501	GDP	O6-C6-N1	-2.04	118.20	120.62
158	KS	501	GDP	C8-N7-C5	2.04	106.02	102.55
158	PN	501	GDP	C8-N7-C5	2.04	106.02	102.55
158	SZ	501	GDP	O4'-C1'-N9	2.04	111.45	108.75
158	VP	501	GDP	C8-N7-C5	2.04	106.02	102.55
158	RT	501	GDP	O6-C6-N1	-2.04	118.20	120.62
158	FZ	501	GDP	C5-C6-N1	2.04	117.96	114.07
158	HT	501	GDP	C8-N7-C5	2.04	106.02	102.55
158	SZ	501	GDP	C8-N7-C5	2.04	106.02	102.55
160	EU	501	GTP	C8-N7-C5	2.04	106.02	102.55
160	MR	602	GTP	C8-N7-C5	2.04	106.02	102.55
160	BL	501	GTP	O4'-C1'-N9	2.04	111.45	108.75
160	XY	501	GTP	O6-C6-C5	2.04	128.36	124.32
158	DC	501	GDP	C8-N7-C5	2.04	106.01	102.55
158	ME	501	GDP	C8-N7-C5	2.04	106.01	102.55
158	Am	501	GDP	C8-N7-C5	2.03	106.01	102.55
158	Ao	501	GDP	C8-N7-C5	2.03	106.01	102.55
158	FH	501	GDP	C5-C6-N1	2.03	117.95	114.07
158	GJ	501	GDP	C8-N7-C5	2.03	106.01	102.55
158	NY	501	GDP	C8-N7-C5	2.03	106.01	102.55
158	DN	501	GDP	O4'-C1'-N9	2.03	111.44	108.75
160	DW	602	GTP	O4'-C1'-N9	2.03	111.44	108.75
158	AQ	501	GDP	C8-N7-C5	2.03	106.01	102.55
158	HJ	501	GDP	O6-C6-N1	-2.03	118.21	120.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	QT	501	GDP	O4'-C1'-N9	2.03	111.44	108.75
158	SN	501	GDP	O4'-C1'-N9	2.03	111.44	108.75
158	JK	501	GDP	C5-C6-N1	2.03	117.94	114.07
160	BX	602	GTP	O4'-C1'-N9	2.03	111.44	108.75
158	LY	501	GDP	C8-N7-C5	2.03	106.00	102.55
160	LT	602	GTP	C8-N7-C5	2.03	106.00	102.55
160	GC	602	GTP	C8-N7-C5	2.03	106.00	102.55
158	Ag	501	GDP	O4'-C1'-N9	2.03	111.44	108.75
158	CQ	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	GD	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	GN	501	GDP	O6-C6-N1	-2.03	118.21	120.62
160	SI	501	GTP	C8-N7-C5	2.03	106.00	102.55
158	Ac	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	TB	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	WJ	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	DP	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	EN	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	RP	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	SF	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	YF	501	GDP	C8-N7-C5	2.03	106.00	102.55
158	NI	501	GDP	C8-N7-C5	2.02	106.00	102.55
158	PP	501	GDP	C8-N7-C5	2.02	106.00	102.55
158	TN	501	GDP	C8-N7-C5	2.02	105.99	102.55
160	Ap	501	GTP	C8-N7-C5	2.02	105.99	102.55
158	OW	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	XH	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	YS	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	YH	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	ZQ	501	GDP	C8-N7-C5	2.02	105.99	102.55
160	IW	501	GTP	O4'-C1'-N9	2.02	111.43	108.75
158	DR	501	GDP	C8-N7-C5	2.02	105.99	102.55
160	NP	501	GTP	C8-N7-C5	2.02	105.99	102.55
160	UB	501	GTP	C8-N7-C5	2.02	105.99	102.55
160	RW	501	GTP	C8-N7-C5	2.02	105.99	102.55
160	ZR	602	GTP	C8-N7-C5	2.02	105.99	102.55
158	LC	501	GDP	O6-C6-N1	-2.02	118.22	120.62
158	AI	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	MU	501	GDP	C8-N7-C5	2.02	105.99	102.55
160	ZV	602	GTP	C8-N7-C5	2.02	105.99	102.55
158	QR	501	GDP	O4'-C1'-N9	2.02	111.42	108.75
158	MO	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	NS	501	GDP	C8-N7-C5	2.02	105.99	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	VH	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	TL	501	GDP	O4'-C1'-N9	2.02	111.42	108.75
158	ZU	501	GDP	O4'-C1'-N9	2.02	111.42	108.75
158	CH	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	EH	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	KC	501	GDP	C8-N7-C5	2.02	105.99	102.55
158	UK	501	GDP	C8-N7-C5	2.02	105.99	102.55
160	ZJ	501	GTP	O4'-C1'-N9	2.02	111.42	108.75
160	VM	602	GTP	C8-N7-C5	2.02	105.98	102.55
158	XN	501	GDP	C8-N7-C5	2.02	105.98	102.55
158	UA	501	GDP	C8-N7-C5	2.02	105.98	102.55
160	HE	602	GTP	O6-C6-C5	-2.02	120.32	124.32
158	OA	501	GDP	C8-N7-C5	2.02	105.98	102.55
158	US	501	GDP	C8-N7-C5	2.02	105.98	102.55
160	HG	501	GTP	C8-N7-C5	2.01	105.98	102.55
158	ZG	501	GDP	O4'-C1'-N9	2.01	111.42	108.75
160	YL	602	GTP	O4'-C1'-N9	2.01	111.42	108.75
158	RB	501	GDP	C8-N7-C5	2.01	105.98	102.55
158	VD	501	GDP	C8-N7-C5	2.01	105.98	102.55
158	ER	501	GDP	C5-C6-N1	2.01	117.91	114.07
158	YU	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	ZA	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	DE	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	GV	501	GDP	C8-N7-C5	2.01	105.97	102.55
160	MF	602	GTP	C8-N7-C5	2.01	105.97	102.55
158	RD	501	GDP	O4'-C1'-N9	2.01	111.41	108.75
158	NS	501	GDP	O4'-C1'-N9	2.01	111.41	108.75
158	ET	501	GDP	C5-C6-N1	2.01	117.90	114.07
160	BR	501	GTP	O6-C6-C5	-2.01	120.34	124.32
158	DZ	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	NE	501	GDP	C8-N7-C5	2.01	105.97	102.55
160	MN	502	GTP	C8-N7-C5	2.01	105.97	102.55
158	QH	501	GDP	O4'-C1'-N9	2.01	111.41	108.75
158	XV	501	GDP	C8-N7-C5	2.01	105.97	102.55
160	TM	501	GTP	C8-N7-C5	2.01	105.97	102.55
158	QL	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	RD	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	AY	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	VZ	501	GDP	C8-N7-C5	2.01	105.97	102.55
158	MY	501	GDP	O6-C6-N1	-2.01	118.24	120.62
158	QR	501	GDP	C8-N7-C5	2.01	105.97	102.55
160	XG	602	GTP	O4'-C1'-N9	2.01	111.41	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	RK	602	GTP	C8-N7-C5	2.01	105.96	102.55
160	ES	501	GTP	O2B-PB-O3B	2.01	112.69	107.27
160	XU	501	GTP	O4'-C1'-N9	2.01	111.40	108.75
158	BW	501	GDP	C8-N7-C5	2.01	105.96	102.55
158	GB	501	GDP	C8-N7-C5	2.01	105.96	102.55
158	WV	501	GDP	C8-N7-C5	2.01	105.96	102.55
158	MC	501	GDP	C8-N7-C5	2.00	105.96	102.55
158	RN	501	GDP	C8-N7-C5	2.00	105.96	102.55
158	VL	501	GDP	C8-N7-C5	2.00	105.96	102.55
160	RS	501	GTP	C8-N7-C5	2.00	105.96	102.55
160	YE	602	GTP	O4'-C1'-N9	2.00	111.40	108.75
160	II	501	GTP	O3G-PG-O2G	2.00	115.32	107.80
160	KL	602	GTP	C8-N7-C5	2.00	105.96	102.55
158	YU	501	GDP	O4'-C1'-N9	2.00	111.40	108.75
158	TY	501	GDP	C8-N7-C5	2.00	105.96	102.55
158	DX	501	GDP	C8-N7-C5	2.00	105.96	102.55
158	RZ	501	GDP	C8-N7-C5	2.00	105.96	102.55
158	XD	501	GDP	C8-N7-C5	2.00	105.96	102.55
158	CE	501	GDP	O4'-C1'-N9	2.00	111.40	108.75
160	LJ	501	GTP	C8-N7-C5	2.00	105.96	102.55
158	CM	501	GDP	C8-N7-C5	2.00	105.95	102.55

There are no chirality outliers.

All (2573) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
156	7a	4701	ATP	C5'-O5'-PA-O3A
156	7a	4701	ATP	C4'-C5'-O5'-PA
156	7a	4702	ATP	PB-O3B-PG-O2G
156	7a	4702	ATP	C5'-O5'-PA-O2A
156	7a	4702	ATP	C5'-O5'-PA-O3A
156	7b	4703	ATP	PB-O3B-PG-O2G
156	7b	4703	ATP	C5'-O5'-PA-O1A
156	7b	4703	ATP	C5'-O5'-PA-O2A
156	7b	4703	ATP	C5'-O5'-PA-O3A
156	7e	4702	ATP	C5'-O5'-PA-O3A
156	7e	4702	ATP	C4'-C5'-O5'-PA
156	7e	4703	ATP	PB-O3B-PG-O2G
156	7e	4703	ATP	C5'-O5'-PA-O2A
156	7f	4702	ATP	C5'-O5'-PA-O1A
156	7f	4702	ATP	C5'-O5'-PA-O2A
156	7f	4702	ATP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
156	7f	4702	ATP	C3'-C4'-C5'-O5'
156	7f	4703	ATP	C5'-O5'-PA-O1A
156	7f	4703	ATP	C5'-O5'-PA-O2A
156	7f	4703	ATP	C5'-O5'-PA-O3A
156	8e	4702	ATP	PB-O3B-PG-O3G
156	8e	4703	ATP	C5'-O5'-PA-O3A
156	8e	4703	ATP	C4'-C5'-O5'-PA
156	8f	4702	ATP	PB-O3A-PA-O5'
156	8f	4702	ATP	C5'-O5'-PA-O2A
156	8f	4703	ATP	C5'-O5'-PA-O2A
156	8f	4703	ATP	C5'-O5'-PA-O3A
156	8f	4704	ATP	C5'-O5'-PA-O2A
156	8f	4704	ATP	C5'-O5'-PA-O3A
156	8f	4704	ATP	O4'-C4'-C5'-O5'
156	8f	4704	ATP	C3'-C4'-C5'-O5'
156	9e	5003	ATP	C5'-O5'-PA-O3A
156	9e	5003	ATP	C4'-C5'-O5'-PA
156	9e	5004	ATP	PB-O3B-PG-O2G
156	9f	4701	ATP	C5'-O5'-PA-O1A
156	9f	4701	ATP	C5'-O5'-PA-O2A
156	9f	4701	ATP	C5'-O5'-PA-O3A
156	9f	4701	ATP	C3'-C4'-C5'-O5'
156	9f	4704	ATP	C5'-O5'-PA-O1A
156	9f	4704	ATP	C5'-O5'-PA-O2A
156	9f	4704	ATP	C5'-O5'-PA-O3A
157	7a	4703	ADP	O4'-C4'-C5'-O5'
157	7e	4701	ADP	O4'-C4'-C5'-O5'
157	8e	4701	ADP	O4'-C4'-C5'-O5'
157	8f	4701	ADP	C5'-O5'-PA-O3A
157	9e	5002	ADP	O4'-C4'-C5'-O5'
157	9f	4702	ADP	C5'-O5'-PA-O3A
158	AA	501	GDP	C5'-O5'-PA-O3A
158	AC	501	GDP	C5'-O5'-PA-O3A
158	AE	501	GDP	C5'-O5'-PA-O3A
158	AG	501	GDP	C5'-O5'-PA-O2A
158	AI	501	GDP	C5'-O5'-PA-O3A
158	AK	501	GDP	C5'-O5'-PA-O3A
158	AM	501	GDP	C5'-O5'-PA-O3A
158	AO	501	GDP	C5'-O5'-PA-O3A
158	AQ	501	GDP	C5'-O5'-PA-O3A
158	AS	501	GDP	C5'-O5'-PA-O2A
158	AU	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	AW	501	GDP	C5'-O5'-PA-O3A
158	AY	501	GDP	C5'-O5'-PA-O3A
158	Aa	501	GDP	C5'-O5'-PA-O3A
158	Ac	501	GDP	C5'-O5'-PA-O3A
158	Ae	501	GDP	C5'-O5'-PA-O3A
158	Ae	501	GDP	C5'-O5'-PA-O1A
158	Ae	501	GDP	C5'-O5'-PA-O2A
158	Ag	501	GDP	C5'-O5'-PA-O3A
158	Ai	501	GDP	C5'-O5'-PA-O3A
158	Ak	501	GDP	C5'-O5'-PA-O3A
158	Am	501	GDP	C5'-O5'-PA-O3A
158	Ao	501	GDP	C5'-O5'-PA-O3A
158	BA	501	GDP	C5'-O5'-PA-O3A
158	BC	501	GDP	C5'-O5'-PA-O3A
158	BG	501	GDP	C5'-O5'-PA-O3A
158	BI	501	GDP	C5'-O5'-PA-O3A
158	BK	501	GDP	C5'-O5'-PA-O3A
158	BM	501	GDP	C5'-O5'-PA-O3A
158	BO	501	GDP	C5'-O5'-PA-O3A
158	BQ	501	GDP	C5'-O5'-PA-O3A
158	BS	501	GDP	C5'-O5'-PA-O3A
158	BU	501	GDP	C5'-O5'-PA-O3A
158	BW	501	GDP	C5'-O5'-PA-O3A
158	BY	501	GDP	C5'-O5'-PA-O3A
158	CA	501	GDP	C5'-O5'-PA-O3A
158	CC	501	GDP	C5'-O5'-PA-O3A
158	CE	501	GDP	C5'-O5'-PA-O3A
158	CH	501	GDP	C5'-O5'-PA-O3A
158	CK	501	GDP	C5'-O5'-PA-O3A
158	CM	501	GDP	C5'-O5'-PA-O3A
158	CO	501	GDP	C5'-O5'-PA-O3A
158	CQ	501	GDP	C5'-O5'-PA-O3A
158	CS	501	GDP	C5'-O5'-PA-O3A
158	CU	501	GDP	C5'-O5'-PA-O3A
158	CW	501	GDP	C5'-O5'-PA-O3A
158	CY	501	GDP	C5'-O5'-PA-O3A
158	DA	501	GDP	C5'-O5'-PA-O3A
158	DC	501	GDP	C5'-O5'-PA-O3A
158	DE	501	GDP	C5'-O5'-PA-O3A
158	DG	501	GDP	C5'-O5'-PA-O3A
158	DI	501	GDP	C5'-O5'-PA-O3A
158	DK	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	DN	501	GDP	C5'-O5'-PA-O3A
158	DP	501	GDP	C5'-O5'-PA-O3A
158	DR	501	GDP	C5'-O5'-PA-O3A
158	DT	501	GDP	C5'-O5'-PA-O3A
158	DV	501	GDP	C5'-O5'-PA-O3A
158	DX	501	GDP	C5'-O5'-PA-O3A
158	DZ	501	GDP	C5'-O5'-PA-O3A
158	EB	501	GDP	C5'-O5'-PA-O3A
158	ED	501	GDP	C5'-O5'-PA-O3A
158	EF	501	GDP	C5'-O5'-PA-O3A
158	EH	501	GDP	C5'-O5'-PA-O3A
158	EJ	501	GDP	C5'-O5'-PA-O3A
158	EL	501	GDP	C5'-O5'-PA-O3A
158	EN	501	GDP	C5'-O5'-PA-O3A
158	ER	501	GDP	C5'-O5'-PA-O3A
158	ET	501	GDP	C5'-O5'-PA-O3A
158	EV	501	GDP	C5'-O5'-PA-O3A
158	EX	501	GDP	C5'-O5'-PA-O3A
158	EZ	602	GDP	C5'-O5'-PA-O3A
158	FB	501	GDP	C5'-O5'-PA-O3A
158	FD	501	GDP	C5'-O5'-PA-O3A
158	FF	501	GDP	C5'-O5'-PA-O3A
158	FH	501	GDP	C5'-O5'-PA-O3A
158	FJ	501	GDP	C5'-O5'-PA-O3A
158	FL	602	GDP	C5'-O5'-PA-O3A
158	FN	501	GDP	C5'-O5'-PA-O3A
158	FP	501	GDP	C5'-O5'-PA-O3A
158	FR	501	GDP	C5'-O5'-PA-O3A
158	FT	501	GDP	C5'-O5'-PA-O3A
158	FV	501	GDP	C5'-O5'-PA-O3A
158	FX	501	GDP	C5'-O5'-PA-O3A
158	FZ	501	GDP	C5'-O5'-PA-O3A
158	GB	501	GDP	C5'-O5'-PA-O3A
158	GD	501	GDP	C5'-O5'-PA-O3A
158	GF	501	GDP	C5'-O5'-PA-O3A
158	GH	501	GDP	C5'-O5'-PA-O3A
158	GJ	501	GDP	C5'-O5'-PA-O3A
158	GL	501	GDP	C5'-O5'-PA-O3A
158	GN	501	GDP	C5'-O5'-PA-O3A
158	GP	501	GDP	C5'-O5'-PA-O3A
158	GR	501	GDP	C5'-O5'-PA-O3A
158	GT	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	GV	501	GDP	C5'-O5'-PA-O3A
158	GX	501	GDP	C5'-O5'-PA-O3A
158	GZ	501	GDP	C5'-O5'-PA-O3A
158	HB	501	GDP	C5'-O5'-PA-O3A
158	HB	501	GDP	C5'-O5'-PA-O1A
158	HD	501	GDP	C5'-O5'-PA-O3A
158	HF	501	GDP	C5'-O5'-PA-O3A
158	HH	501	GDP	C5'-O5'-PA-O3A
158	HJ	501	GDP	C5'-O5'-PA-O3A
158	HL	501	GDP	C5'-O5'-PA-O3A
158	HN	501	GDP	C5'-O5'-PA-O3A
158	HN	501	GDP	C5'-O5'-PA-O1A
158	HP	501	GDP	C5'-O5'-PA-O3A
158	HR	501	GDP	C5'-O5'-PA-O3A
158	HT	501	GDP	C5'-O5'-PA-O3A
158	HV	501	GDP	C5'-O5'-PA-O3A
158	HX	501	GDP	C5'-O5'-PA-O3A
158	HZ	501	GDP	C5'-O5'-PA-O3A
158	HZ	501	GDP	C5'-O5'-PA-O1A
158	IB	501	GDP	C5'-O5'-PA-O3A
158	ID	501	GDP	C5'-O5'-PA-O3A
158	IF	501	GDP	C5'-O5'-PA-O3A
158	IH	501	GDP	C5'-O5'-PA-O3A
158	IJ	501	GDP	C5'-O5'-PA-O3A
158	IL	501	GDP	C5'-O5'-PA-O3A
158	IN	501	GDP	C5'-O5'-PA-O3A
158	IP	501	GDP	C5'-O5'-PA-O3A
158	IR	501	GDP	C5'-O5'-PA-O3A
158	IT	501	GDP	C5'-O5'-PA-O3A
158	IV	501	GDP	C5'-O5'-PA-O3A
158	IX	501	GDP	C5'-O5'-PA-O3A
158	IZ	501	GDP	C5'-O5'-PA-O3A
158	JB	501	GDP	C5'-O5'-PA-O3A
158	JD	501	GDP	C5'-O5'-PA-O3A
158	JF	501	GDP	C5'-O5'-PA-O3A
158	JG	501	GDP	C5'-O5'-PA-O3A
158	JI	501	GDP	C5'-O5'-PA-O3A
158	JK	501	GDP	C5'-O5'-PA-O3A
158	JM	501	GDP	C5'-O5'-PA-O3A
158	JO	501	GDP	C5'-O5'-PA-O3A
158	JQ	501	GDP	C5'-O5'-PA-O3A
158	JS	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	JU	501	GDP	C5'-O5'-PA-O3A
158	JW	501	GDP	C5'-O5'-PA-O3A
158	JY	501	GDP	C5'-O5'-PA-O3A
158	KA	501	GDP	C5'-O5'-PA-O3A
158	KC	501	GDP	C5'-O5'-PA-O3A
158	KE	501	GDP	C5'-O5'-PA-O3A
158	KG	501	GDP	C5'-O5'-PA-O3A
158	KI	501	GDP	C5'-O5'-PA-O3A
158	KK	501	GDP	C5'-O5'-PA-O3A
158	KM	501	GDP	C5'-O5'-PA-O3A
158	KO	501	GDP	C5'-O5'-PA-O3A
158	KQ	501	GDP	C5'-O5'-PA-O3A
158	KS	501	GDP	C5'-O5'-PA-O3A
158	KU	501	GDP	C5'-O5'-PA-O3A
158	KW	501	GDP	C5'-O5'-PA-O3A
158	KY	501	GDP	C5'-O5'-PA-O3A
158	LA	501	GDP	C5'-O5'-PA-O3A
158	LC	501	GDP	C5'-O5'-PA-O3A
158	LE	501	GDP	C5'-O5'-PA-O3A
158	LG	501	GDP	C5'-O5'-PA-O3A
158	LI	501	GDP	C5'-O5'-PA-O3A
158	LK	501	GDP	C5'-O5'-PA-O3A
158	LM	501	GDP	C5'-O5'-PA-O3A
158	LO	501	GDP	C5'-O5'-PA-O3A
158	LQ	501	GDP	C5'-O5'-PA-O3A
158	LS	501	GDP	C5'-O5'-PA-O3A
158	LU	501	GDP	C5'-O5'-PA-O3A
158	LW	501	GDP	C5'-O5'-PA-O3A
158	LY	501	GDP	C5'-O5'-PA-O3A
158	MA	501	GDP	C5'-O5'-PA-O3A
158	MC	501	GDP	C5'-O5'-PA-O3A
158	ME	501	GDP	C5'-O5'-PA-O3A
158	MG	501	GDP	C5'-O5'-PA-O3A
158	MI	501	GDP	C5'-O5'-PA-O3A
158	MK	501	GDP	C5'-O5'-PA-O3A
158	MM	501	GDP	C5'-O5'-PA-O3A
158	MO	501	GDP	C5'-O5'-PA-O3A
158	MQ	501	GDP	C5'-O5'-PA-O3A
158	MU	501	GDP	C5'-O5'-PA-O3A
158	MW	501	GDP	C5'-O5'-PA-O3A
158	MY	501	GDP	C5'-O5'-PA-O3A
158	NA	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	NC	501	GDP	C5'-O5'-PA-O3A
158	NE	501	GDP	C5'-O5'-PA-O3A
158	NG	501	GDP	C5'-O5'-PA-O3A
158	NI	501	GDP	C5'-O5'-PA-O3A
158	NK	501	GDP	C5'-O5'-PA-O3A
158	NM	501	GDP	C5'-O5'-PA-O3A
158	NO	501	GDP	C5'-O5'-PA-O3A
158	NQ	501	GDP	C5'-O5'-PA-O3A
158	NS	501	GDP	C5'-O5'-PA-O3A
158	NU	501	GDP	C5'-O5'-PA-O3A
158	NY	501	GDP	C5'-O5'-PA-O3A
158	OA	501	GDP	C5'-O5'-PA-O3A
158	OC	501	GDP	C5'-O5'-PA-O3A
158	OE	501	GDP	C5'-O5'-PA-O3A
158	OG	501	GDP	C5'-O5'-PA-O3A
158	OI	501	GDP	C5'-O5'-PA-O3A
158	OK	501	GDP	C5'-O5'-PA-O3A
158	OM	501	GDP	C5'-O5'-PA-O3A
158	OO	501	GDP	C5'-O5'-PA-O3A
158	OQ	501	GDP	C5'-O5'-PA-O3A
158	OS	501	GDP	C5'-O5'-PA-O3A
158	OU	501	GDP	C5'-O5'-PA-O3A
158	OW	501	GDP	C5'-O5'-PA-O3A
158	OY	501	GDP	C5'-O5'-PA-O3A
158	PA	501	GDP	C5'-O5'-PA-O3A
158	PD	501	GDP	C5'-O5'-PA-O3A
158	PF	501	GDP	C5'-O5'-PA-O3A
158	PH	501	GDP	C5'-O5'-PA-O3A
158	PJ	501	GDP	C5'-O5'-PA-O3A
158	PL	501	GDP	C5'-O5'-PA-O3A
158	PN	501	GDP	C5'-O5'-PA-O3A
158	PP	501	GDP	C5'-O5'-PA-O3A
158	PR	501	GDP	C5'-O5'-PA-O3A
158	PT	501	GDP	C5'-O5'-PA-O3A
158	PV	501	GDP	C5'-O5'-PA-O3A
158	PX	501	GDP	C5'-O5'-PA-O3A
158	PZ	501	GDP	C5'-O5'-PA-O3A
158	QB	501	GDP	C5'-O5'-PA-O3A
158	QD	501	GDP	C5'-O5'-PA-O3A
158	QF	501	GDP	C5'-O5'-PA-O3A
158	QH	501	GDP	C5'-O5'-PA-O3A
158	QJ	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	QL	501	GDP	C5'-O5'-PA-O3A
158	QN	501	GDP	C5'-O5'-PA-O3A
158	QP	501	GDP	C5'-O5'-PA-O3A
158	QR	501	GDP	C5'-O5'-PA-O3A
158	QT	501	GDP	C5'-O5'-PA-O3A
158	QV	501	GDP	C5'-O5'-PA-O3A
158	QX	501	GDP	C5'-O5'-PA-O3A
158	QZ	501	GDP	C5'-O5'-PA-O3A
158	RB	501	GDP	C5'-O5'-PA-O3A
158	RD	501	GDP	C5'-O5'-PA-O3A
158	RF	501	GDP	C5'-O5'-PA-O3A
158	RH	501	GDP	C5'-O5'-PA-O3A
158	RJ	501	GDP	C5'-O5'-PA-O3A
158	RL	501	GDP	C5'-O5'-PA-O3A
158	RN	501	GDP	C5'-O5'-PA-O3A
158	RP	501	GDP	C5'-O5'-PA-O3A
158	RR	501	GDP	C5'-O5'-PA-O3A
158	RT	501	GDP	C5'-O5'-PA-O3A
158	RV	501	GDP	C5'-O5'-PA-O3A
158	RX	501	GDP	C5'-O5'-PA-O3A
158	RZ	501	GDP	C5'-O5'-PA-O3A
158	SB	501	GDP	C5'-O5'-PA-O3A
158	SD	501	GDP	C5'-O5'-PA-O3A
158	SF	501	GDP	C5'-O5'-PA-O3A
158	SH	501	GDP	C5'-O5'-PA-O3A
158	SJ	501	GDP	C5'-O5'-PA-O3A
158	SL	501	GDP	C5'-O5'-PA-O3A
158	SN	501	GDP	C5'-O5'-PA-O3A
158	SP	501	GDP	C5'-O5'-PA-O3A
158	SR	501	GDP	C5'-O5'-PA-O3A
158	ST	501	GDP	C5'-O5'-PA-O3A
158	SV	501	GDP	C5'-O5'-PA-O3A
158	SX	501	GDP	C5'-O5'-PA-O3A
158	SZ	501	GDP	C5'-O5'-PA-O3A
158	TB	501	GDP	C5'-O5'-PA-O3A
158	TD	501	GDP	C5'-O5'-PA-O3A
158	TF	501	GDP	C5'-O5'-PA-O3A
158	TH	501	GDP	C5'-O5'-PA-O3A
158	TJ	501	GDP	C5'-O5'-PA-O3A
158	TL	501	GDP	C5'-O5'-PA-O3A
158	TN	501	GDP	C5'-O5'-PA-O3A
158	TP	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	TS	501	GDP	C5'-O5'-PA-O3A
158	TU	501	GDP	C5'-O5'-PA-O3A
158	TW	501	GDP	C5'-O5'-PA-O3A
158	TY	501	GDP	C5'-O5'-PA-O3A
158	UA	501	GDP	C5'-O5'-PA-O3A
158	UC	501	GDP	C5'-O5'-PA-O3A
158	UE	501	GDP	C5'-O5'-PA-O3A
158	UG	501	GDP	C5'-O5'-PA-O3A
158	UI	501	GDP	C5'-O5'-PA-O3A
158	UK	501	GDP	C5'-O5'-PA-O3A
158	UM	501	GDP	C5'-O5'-PA-O3A
158	UO	501	GDP	C5'-O5'-PA-O3A
158	UQ	501	GDP	C5'-O5'-PA-O3A
158	US	501	GDP	C5'-O5'-PA-O3A
158	UU	501	GDP	C5'-O5'-PA-O3A
158	UX	501	GDP	C5'-O5'-PA-O3A
158	UZ	501	GDP	C5'-O5'-PA-O3A
158	VB	501	GDP	C5'-O5'-PA-O3A
158	VD	501	GDP	C5'-O5'-PA-O3A
158	VF	501	GDP	C5'-O5'-PA-O3A
158	VH	501	GDP	C5'-O5'-PA-O3A
158	VJ	501	GDP	C5'-O5'-PA-O3A
158	VL	501	GDP	C5'-O5'-PA-O3A
158	VN	501	GDP	C5'-O5'-PA-O3A
158	VP	501	GDP	C5'-O5'-PA-O3A
158	VR	501	GDP	C5'-O5'-PA-O3A
158	VT	501	GDP	C5'-O5'-PA-O3A
158	VV	501	GDP	C5'-O5'-PA-O3A
158	VX	501	GDP	C5'-O5'-PA-O3A
158	VZ	501	GDP	C5'-O5'-PA-O3A
158	WB	501	GDP	C5'-O5'-PA-O3A
158	WD	501	GDP	C5'-O5'-PA-O3A
158	WF	501	GDP	C5'-O5'-PA-O3A
158	WH	501	GDP	C5'-O5'-PA-O3A
158	WJ	501	GDP	C5'-O5'-PA-O3A
158	WL	501	GDP	C5'-O5'-PA-O3A
158	WN	501	GDP	C5'-O5'-PA-O3A
158	WP	501	GDP	C5'-O5'-PA-O3A
158	WR	501	GDP	C5'-O5'-PA-O3A
158	WT	501	GDP	C5'-O5'-PA-O3A
158	WV	501	GDP	C5'-O5'-PA-O3A
158	WX	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
158	WZ	501	GDP	C5'-O5'-PA-O3A
158	XB	501	GDP	C5'-O5'-PA-O3A
158	XD	501	GDP	C5'-O5'-PA-O3A
158	XF	501	GDP	C5'-O5'-PA-O3A
158	XH	501	GDP	C5'-O5'-PA-O3A
158	XJ	501	GDP	C5'-O5'-PA-O3A
158	XJ	501	GDP	C5'-O5'-PA-O2A
158	XL	501	GDP	C5'-O5'-PA-O3A
158	XN	501	GDP	C5'-O5'-PA-O3A
158	XP	501	GDP	C5'-O5'-PA-O3A
158	XR	501	GDP	C5'-O5'-PA-O3A
158	XT	501	GDP	C5'-O5'-PA-O3A
158	XV	501	GDP	C5'-O5'-PA-O3A
158	XX	501	GDP	C5'-O5'-PA-O3A
158	XZ	501	GDP	C5'-O5'-PA-O3A
158	YB	501	GDP	C5'-O5'-PA-O3A
158	YD	501	GDP	C5'-O5'-PA-O3A
158	YF	501	GDP	C5'-O5'-PA-O3A
158	YH	501	GDP	C5'-O5'-PA-O3A
158	YK	501	GDP	C5'-O5'-PA-O3A
158	YM	501	GDP	C5'-O5'-PA-O3A
158	YO	501	GDP	C5'-O5'-PA-O3A
158	YQ	501	GDP	C5'-O5'-PA-O3A
158	YS	501	GDP	C5'-O5'-PA-O3A
158	YU	501	GDP	C5'-O5'-PA-O3A
158	YW	501	GDP	C5'-O5'-PA-O3A
158	YY	501	GDP	C5'-O5'-PA-O3A
158	ZA	501	GDP	C5'-O5'-PA-O3A
158	ZC	501	GDP	C5'-O5'-PA-O3A
158	ZE	501	GDP	C5'-O5'-PA-O3A
158	ZG	501	GDP	C5'-O5'-PA-O3A
158	ZI	501	GDP	C5'-O5'-PA-O3A
158	ZK	501	GDP	C5'-O5'-PA-O3A
158	ZM	501	GDP	C5'-O5'-PA-O3A
158	ZO	501	GDP	C5'-O5'-PA-O3A
158	ZQ	501	GDP	C5'-O5'-PA-O3A
158	ZS	501	GDP	C5'-O5'-PA-O3A
158	ZS	501	GDP	C5'-O5'-PA-O1A
158	ZS	501	GDP	C5'-O5'-PA-O2A
158	ZU	501	GDP	C5'-O5'-PA-O3A
158	ZW	501	GDP	C5'-O5'-PA-O3A
158	ZY	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	AB	602	GTP	C5'-O5'-PA-O3A
160	AB	602	GTP	C5'-O5'-PA-O1A
160	AB	602	GTP	C5'-O5'-PA-O2A
160	AD	501	GTP	C5'-O5'-PA-O3A
160	AD	501	GTP	C5'-O5'-PA-O1A
160	AD	501	GTP	C5'-O5'-PA-O2A
160	AF	501	GTP	C5'-O5'-PA-O3A
160	AF	501	GTP	C5'-O5'-PA-O1A
160	AF	501	GTP	C5'-O5'-PA-O2A
160	AH	501	GTP	C5'-O5'-PA-O3A
160	AH	501	GTP	C5'-O5'-PA-O1A
160	AH	501	GTP	C5'-O5'-PA-O2A
160	AJ	501	GTP	C5'-O5'-PA-O3A
160	AJ	501	GTP	C5'-O5'-PA-O1A
160	AJ	501	GTP	C5'-O5'-PA-O2A
160	AL	602	GTP	C5'-O5'-PA-O3A
160	AL	602	GTP	C5'-O5'-PA-O1A
160	AL	602	GTP	C5'-O5'-PA-O2A
160	AN	501	GTP	C5'-O5'-PA-O3A
160	AN	501	GTP	C5'-O5'-PA-O1A
160	AN	501	GTP	C5'-O5'-PA-O2A
160	AP	602	GTP	C5'-O5'-PA-O3A
160	AP	602	GTP	C5'-O5'-PA-O1A
160	AP	602	GTP	C5'-O5'-PA-O2A
160	AR	602	GTP	C5'-O5'-PA-O3A
160	AR	602	GTP	C5'-O5'-PA-O1A
160	AR	602	GTP	C5'-O5'-PA-O2A
160	AT	501	GTP	C5'-O5'-PA-O3A
160	AT	501	GTP	C5'-O5'-PA-O1A
160	AT	501	GTP	C5'-O5'-PA-O2A
160	AV	501	GTP	C5'-O5'-PA-O3A
160	AV	501	GTP	C5'-O5'-PA-O1A
160	AV	501	GTP	C5'-O5'-PA-O2A
160	AX	501	GTP	C5'-O5'-PA-O3A
160	AX	501	GTP	C5'-O5'-PA-O1A
160	AX	501	GTP	C5'-O5'-PA-O2A
160	AZ	501	GTP	C5'-O5'-PA-O3A
160	AZ	501	GTP	C5'-O5'-PA-O1A
160	AZ	501	GTP	C5'-O5'-PA-O2A
160	Ab	501	GTP	C5'-O5'-PA-O3A
160	Ab	501	GTP	C5'-O5'-PA-O1A
160	Ab	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	Ad	602	GTP	C5'-O5'-PA-O3A
160	Ad	602	GTP	C5'-O5'-PA-O1A
160	Ad	602	GTP	C5'-O5'-PA-O2A
160	Af	501	GTP	C5'-O5'-PA-O3A
160	Af	501	GTP	C5'-O5'-PA-O1A
160	Af	501	GTP	C5'-O5'-PA-O2A
160	Ah	501	GTP	C5'-O5'-PA-O3A
160	Ah	501	GTP	C5'-O5'-PA-O1A
160	Ah	501	GTP	C5'-O5'-PA-O2A
160	Aj	501	GTP	C5'-O5'-PA-O3A
160	Aj	501	GTP	C5'-O5'-PA-O1A
160	Aj	501	GTP	C5'-O5'-PA-O2A
160	Al	602	GTP	C5'-O5'-PA-O3A
160	Al	602	GTP	C5'-O5'-PA-O1A
160	Al	602	GTP	C5'-O5'-PA-O2A
160	An	602	GTP	C5'-O5'-PA-O3A
160	An	602	GTP	C5'-O5'-PA-O1A
160	An	602	GTP	C5'-O5'-PA-O2A
160	Ap	501	GTP	C5'-O5'-PA-O3A
160	Ap	501	GTP	C5'-O5'-PA-O1A
160	Ap	501	GTP	C5'-O5'-PA-O2A
160	BB	501	GTP	C5'-O5'-PA-O3A
160	BB	501	GTP	C5'-O5'-PA-O1A
160	BB	501	GTP	C5'-O5'-PA-O2A
160	BD	602	GTP	C5'-O5'-PA-O3A
160	BD	602	GTP	C5'-O5'-PA-O1A
160	BD	602	GTP	C5'-O5'-PA-O2A
160	BF	602	GTP	C5'-O5'-PA-O3A
160	BF	602	GTP	C5'-O5'-PA-O1A
160	BF	602	GTP	C5'-O5'-PA-O2A
160	BH	602	GTP	C5'-O5'-PA-O3A
160	BH	602	GTP	C5'-O5'-PA-O1A
160	BH	602	GTP	C5'-O5'-PA-O2A
160	BJ	602	GTP	C5'-O5'-PA-O3A
160	BJ	602	GTP	C5'-O5'-PA-O1A
160	BJ	602	GTP	C5'-O5'-PA-O2A
160	BL	501	GTP	C5'-O5'-PA-O3A
160	BL	501	GTP	C5'-O5'-PA-O1A
160	BL	501	GTP	C5'-O5'-PA-O2A
160	BN	602	GTP	C5'-O5'-PA-O3A
160	BN	602	GTP	C5'-O5'-PA-O1A
160	BN	602	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	BP	501	GTP	C5'-O5'-PA-O3A
160	BP	501	GTP	C5'-O5'-PA-O1A
160	BP	501	GTP	C5'-O5'-PA-O2A
160	BR	501	GTP	C5'-O5'-PA-O3A
160	BR	501	GTP	C5'-O5'-PA-O1A
160	BR	501	GTP	C5'-O5'-PA-O2A
160	BT	602	GTP	C5'-O5'-PA-O3A
160	BT	602	GTP	C5'-O5'-PA-O1A
160	BT	602	GTP	C5'-O5'-PA-O2A
160	BV	602	GTP	C5'-O5'-PA-O3A
160	BV	602	GTP	C5'-O5'-PA-O1A
160	BV	602	GTP	C5'-O5'-PA-O2A
160	BX	602	GTP	C5'-O5'-PA-O3A
160	BX	602	GTP	C5'-O5'-PA-O1A
160	BX	602	GTP	C5'-O5'-PA-O2A
160	BZ	501	GTP	C5'-O5'-PA-O3A
160	BZ	501	GTP	C5'-O5'-PA-O1A
160	BZ	501	GTP	C5'-O5'-PA-O2A
160	CB	501	GTP	C5'-O5'-PA-O3A
160	CB	501	GTP	C5'-O5'-PA-O1A
160	CB	501	GTP	C5'-O5'-PA-O2A
160	CD	602	GTP	C5'-O5'-PA-O3A
160	CD	602	GTP	C5'-O5'-PA-O1A
160	CD	602	GTP	C5'-O5'-PA-O2A
160	CF	501	GTP	C5'-O5'-PA-O3A
160	CF	501	GTP	C5'-O5'-PA-O1A
160	CF	501	GTP	C5'-O5'-PA-O2A
160	CI	501	GTP	C5'-O5'-PA-O3A
160	CI	501	GTP	C5'-O5'-PA-O1A
160	CI	501	GTP	C5'-O5'-PA-O2A
160	CJ	501	GTP	C5'-O5'-PA-O3A
160	CJ	501	GTP	C5'-O5'-PA-O1A
160	CJ	501	GTP	C5'-O5'-PA-O2A
160	CL	501	GTP	C5'-O5'-PA-O3A
160	CL	501	GTP	C5'-O5'-PA-O1A
160	CL	501	GTP	C5'-O5'-PA-O2A
160	CN	602	GTP	C5'-O5'-PA-O3A
160	CN	602	GTP	C5'-O5'-PA-O1A
160	CN	602	GTP	C5'-O5'-PA-O2A
160	CP	602	GTP	C5'-O5'-PA-O3A
160	CP	602	GTP	C5'-O5'-PA-O1A
160	CP	602	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	CR	501	GTP	C5'-O5'-PA-O3A
160	CR	501	GTP	C5'-O5'-PA-O1A
160	CR	501	GTP	C5'-O5'-PA-O2A
160	CT	602	GTP	C5'-O5'-PA-O3A
160	CT	602	GTP	C5'-O5'-PA-O1A
160	CT	602	GTP	C5'-O5'-PA-O2A
160	CV	501	GTP	C5'-O5'-PA-O3A
160	CV	501	GTP	C5'-O5'-PA-O1A
160	CV	501	GTP	C5'-O5'-PA-O2A
160	CX	602	GTP	C5'-O5'-PA-O3A
160	CX	602	GTP	C5'-O5'-PA-O1A
160	CX	602	GTP	C5'-O5'-PA-O2A
160	CZ	501	GTP	C5'-O5'-PA-O3A
160	CZ	501	GTP	C5'-O5'-PA-O1A
160	CZ	501	GTP	C5'-O5'-PA-O2A
160	DB	501	GTP	C5'-O5'-PA-O3A
160	DB	501	GTP	C5'-O5'-PA-O1A
160	DB	501	GTP	C5'-O5'-PA-O2A
160	DD	501	GTP	C5'-O5'-PA-O3A
160	DD	501	GTP	C5'-O5'-PA-O1A
160	DD	501	GTP	C5'-O5'-PA-O2A
160	DF	501	GTP	C5'-O5'-PA-O3A
160	DF	501	GTP	C5'-O5'-PA-O1A
160	DF	501	GTP	C5'-O5'-PA-O2A
160	DH	501	GTP	C5'-O5'-PA-O3A
160	DH	501	GTP	C5'-O5'-PA-O1A
160	DH	501	GTP	C5'-O5'-PA-O2A
160	DJ	501	GTP	C5'-O5'-PA-O3A
160	DJ	501	GTP	C5'-O5'-PA-O1A
160	DJ	501	GTP	C5'-O5'-PA-O2A
160	DL	501	GTP	C5'-O5'-PA-O3A
160	DL	501	GTP	C5'-O5'-PA-O1A
160	DL	501	GTP	C5'-O5'-PA-O2A
160	DM	501	GTP	C5'-O5'-PA-O3A
160	DM	501	GTP	C5'-O5'-PA-O1A
160	DM	501	GTP	C5'-O5'-PA-O2A
160	DO	501	GTP	C5'-O5'-PA-O3A
160	DO	501	GTP	C5'-O5'-PA-O1A
160	DO	501	GTP	C5'-O5'-PA-O2A
160	DQ	501	GTP	C5'-O5'-PA-O3A
160	DQ	501	GTP	C5'-O5'-PA-O1A
160	DQ	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	DS	602	GTP	C5'-O5'-PA-O3A
160	DS	602	GTP	C5'-O5'-PA-O1A
160	DS	602	GTP	C5'-O5'-PA-O2A
160	DU	501	GTP	C5'-O5'-PA-O3A
160	DU	501	GTP	C5'-O5'-PA-O1A
160	DU	501	GTP	C5'-O5'-PA-O2A
160	DW	602	GTP	C5'-O5'-PA-O3A
160	DW	602	GTP	C5'-O5'-PA-O1A
160	DW	602	GTP	C5'-O5'-PA-O2A
160	DY	501	GTP	C5'-O5'-PA-O3A
160	DY	501	GTP	C5'-O5'-PA-O1A
160	DY	501	GTP	C5'-O5'-PA-O2A
160	EA	501	GTP	C5'-O5'-PA-O3A
160	EA	501	GTP	C5'-O5'-PA-O1A
160	EA	501	GTP	C5'-O5'-PA-O2A
160	EC	501	GTP	C5'-O5'-PA-O3A
160	EC	501	GTP	C5'-O5'-PA-O1A
160	EC	501	GTP	C5'-O5'-PA-O2A
160	EE	501	GTP	C5'-O5'-PA-O3A
160	EE	501	GTP	C5'-O5'-PA-O1A
160	EE	501	GTP	C5'-O5'-PA-O2A
160	EG	501	GTP	C5'-O5'-PA-O3A
160	EG	501	GTP	C5'-O5'-PA-O1A
160	EG	501	GTP	C5'-O5'-PA-O2A
160	EI	501	GTP	C5'-O5'-PA-O3A
160	EI	501	GTP	C5'-O5'-PA-O1A
160	EI	501	GTP	C5'-O5'-PA-O2A
160	EK	602	GTP	C5'-O5'-PA-O3A
160	EK	602	GTP	C5'-O5'-PA-O1A
160	EK	602	GTP	C5'-O5'-PA-O2A
160	EM	501	GTP	C5'-O5'-PA-O3A
160	EM	501	GTP	C5'-O5'-PA-O1A
160	EM	501	GTP	C5'-O5'-PA-O2A
160	EO	501	GTP	C5'-O5'-PA-O3A
160	EO	501	GTP	C5'-O5'-PA-O1A
160	EO	501	GTP	C5'-O5'-PA-O2A
160	EQ	602	GTP	C5'-O5'-PA-O3A
160	EQ	602	GTP	C5'-O5'-PA-O1A
160	EQ	602	GTP	C5'-O5'-PA-O2A
160	ES	501	GTP	C5'-O5'-PA-O3A
160	ES	501	GTP	C5'-O5'-PA-O1A
160	ES	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	EU	501	GTP	C5'-O5'-PA-O3A
160	EU	501	GTP	C5'-O5'-PA-O1A
160	EU	501	GTP	C5'-O5'-PA-O2A
160	EW	501	GTP	C5'-O5'-PA-O3A
160	EW	501	GTP	C5'-O5'-PA-O1A
160	EW	501	GTP	C5'-O5'-PA-O2A
160	EY	501	GTP	C5'-O5'-PA-O3A
160	EY	501	GTP	C5'-O5'-PA-O1A
160	EY	501	GTP	C5'-O5'-PA-O2A
160	FA	602	GTP	C5'-O5'-PA-O3A
160	FA	602	GTP	C5'-O5'-PA-O1A
160	FA	602	GTP	C5'-O5'-PA-O2A
160	FC	501	GTP	C5'-O5'-PA-O3A
160	FC	501	GTP	C5'-O5'-PA-O1A
160	FC	501	GTP	C5'-O5'-PA-O2A
160	FE	501	GTP	C5'-O5'-PA-O3A
160	FE	501	GTP	C5'-O5'-PA-O1A
160	FE	501	GTP	C5'-O5'-PA-O2A
160	FG	501	GTP	C5'-O5'-PA-O3A
160	FG	501	GTP	C5'-O5'-PA-O1A
160	FG	501	GTP	C5'-O5'-PA-O2A
160	FI	602	GTP	C5'-O5'-PA-O3A
160	FI	602	GTP	C5'-O5'-PA-O1A
160	FI	602	GTP	C5'-O5'-PA-O2A
160	FK	501	GTP	C5'-O5'-PA-O3A
160	FK	501	GTP	C5'-O5'-PA-O1A
160	FK	501	GTP	C5'-O5'-PA-O2A
160	FM	501	GTP	C5'-O5'-PA-O3A
160	FM	501	GTP	C5'-O5'-PA-O1A
160	FM	501	GTP	C5'-O5'-PA-O2A
160	FO	602	GTP	C5'-O5'-PA-O3A
160	FO	602	GTP	C5'-O5'-PA-O1A
160	FO	602	GTP	C5'-O5'-PA-O2A
160	FQ	501	GTP	C5'-O5'-PA-O3A
160	FQ	501	GTP	C5'-O5'-PA-O1A
160	FQ	501	GTP	C5'-O5'-PA-O2A
160	FS	602	GTP	C5'-O5'-PA-O3A
160	FS	602	GTP	C5'-O5'-PA-O1A
160	FS	602	GTP	C5'-O5'-PA-O2A
160	FW	602	GTP	C5'-O5'-PA-O3A
160	FW	602	GTP	C5'-O5'-PA-O1A
160	FW	602	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	FY	501	GTP	C5'-O5'-PA-O3A
160	FY	501	GTP	C5'-O5'-PA-O1A
160	FY	501	GTP	C5'-O5'-PA-O2A
160	GA	602	GTP	C5'-O5'-PA-O3A
160	GA	602	GTP	C5'-O5'-PA-O1A
160	GA	602	GTP	C5'-O5'-PA-O2A
160	GC	602	GTP	C5'-O5'-PA-O3A
160	GC	602	GTP	C5'-O5'-PA-O1A
160	GC	602	GTP	C5'-O5'-PA-O2A
160	GE	602	GTP	C5'-O5'-PA-O3A
160	GE	602	GTP	C5'-O5'-PA-O1A
160	GE	602	GTP	C5'-O5'-PA-O2A
160	GG	501	GTP	C5'-O5'-PA-O3A
160	GG	501	GTP	C5'-O5'-PA-O1A
160	GG	501	GTP	C5'-O5'-PA-O2A
160	GI	501	GTP	C5'-O5'-PA-O3A
160	GI	501	GTP	C5'-O5'-PA-O1A
160	GI	501	GTP	C5'-O5'-PA-O2A
160	GK	602	GTP	C5'-O5'-PA-O3A
160	GK	602	GTP	C5'-O5'-PA-O1A
160	GK	602	GTP	C5'-O5'-PA-O2A
160	GM	501	GTP	C5'-O5'-PA-O3A
160	GM	501	GTP	C5'-O5'-PA-O1A
160	GM	501	GTP	C5'-O5'-PA-O2A
160	GO	501	GTP	C5'-O5'-PA-O3A
160	GO	501	GTP	C5'-O5'-PA-O1A
160	GO	501	GTP	C5'-O5'-PA-O2A
160	GQ	602	GTP	C5'-O5'-PA-O3A
160	GQ	602	GTP	C5'-O5'-PA-O1A
160	GQ	602	GTP	C5'-O5'-PA-O2A
160	GS	602	GTP	C5'-O5'-PA-O3A
160	GS	602	GTP	C5'-O5'-PA-O1A
160	GS	602	GTP	C5'-O5'-PA-O2A
160	GU	602	GTP	C5'-O5'-PA-O3A
160	GU	602	GTP	C5'-O5'-PA-O1A
160	GU	602	GTP	C5'-O5'-PA-O2A
160	GW	501	GTP	C5'-O5'-PA-O3A
160	GW	501	GTP	C5'-O5'-PA-O1A
160	GW	501	GTP	C5'-O5'-PA-O2A
160	HA	501	GTP	C5'-O5'-PA-O3A
160	HA	501	GTP	C5'-O5'-PA-O1A
160	HA	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	HC	602	GTP	C5'-O5'-PA-O3A
160	HC	602	GTP	C5'-O5'-PA-O1A
160	HC	602	GTP	C5'-O5'-PA-O2A
160	HE	602	GTP	C5'-O5'-PA-O3A
160	HE	602	GTP	C5'-O5'-PA-O1A
160	HE	602	GTP	C5'-O5'-PA-O2A
160	HG	501	GTP	C5'-O5'-PA-O3A
160	HG	501	GTP	C5'-O5'-PA-O1A
160	HG	501	GTP	C5'-O5'-PA-O2A
160	HI	602	GTP	C5'-O5'-PA-O3A
160	HI	602	GTP	C5'-O5'-PA-O1A
160	HI	602	GTP	C5'-O5'-PA-O2A
160	HK	501	GTP	C5'-O5'-PA-O3A
160	HK	501	GTP	C5'-O5'-PA-O1A
160	HK	501	GTP	C5'-O5'-PA-O2A
160	HM	602	GTP	C5'-O5'-PA-O3A
160	HM	602	GTP	C5'-O5'-PA-O1A
160	HM	602	GTP	C5'-O5'-PA-O2A
160	HO	501	GTP	C5'-O5'-PA-O3A
160	HO	501	GTP	C5'-O5'-PA-O1A
160	HO	501	GTP	C5'-O5'-PA-O2A
160	HQ	602	GTP	C5'-O5'-PA-O3A
160	HQ	602	GTP	C5'-O5'-PA-O1A
160	HQ	602	GTP	C5'-O5'-PA-O2A
160	HS	501	GTP	C5'-O5'-PA-O3A
160	HS	501	GTP	C5'-O5'-PA-O1A
160	HS	501	GTP	C5'-O5'-PA-O2A
160	HU	602	GTP	C5'-O5'-PA-O3A
160	HU	602	GTP	C5'-O5'-PA-O1A
160	HU	602	GTP	C5'-O5'-PA-O2A
160	HW	501	GTP	C5'-O5'-PA-O3A
160	HW	501	GTP	C5'-O5'-PA-O1A
160	HW	501	GTP	C5'-O5'-PA-O2A
160	HY	501	GTP	C5'-O5'-PA-O3A
160	HY	501	GTP	C5'-O5'-PA-O1A
160	HY	501	GTP	C5'-O5'-PA-O2A
160	IA	501	GTP	C5'-O5'-PA-O3A
160	IA	501	GTP	C5'-O5'-PA-O1A
160	IA	501	GTP	C5'-O5'-PA-O2A
160	IE	501	GTP	C5'-O5'-PA-O3A
160	IE	501	GTP	C5'-O5'-PA-O1A
160	IE	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	IG	501	GTP	C5'-O5'-PA-O3A
160	IG	501	GTP	C5'-O5'-PA-O1A
160	IG	501	GTP	C5'-O5'-PA-O2A
160	II	501	GTP	C5'-O5'-PA-O2A
160	IK	602	GTP	C5'-O5'-PA-O3A
160	IK	602	GTP	C5'-O5'-PA-O1A
160	IK	602	GTP	C5'-O5'-PA-O2A
160	IM	602	GTP	C5'-O5'-PA-O3A
160	IM	602	GTP	C5'-O5'-PA-O1A
160	IM	602	GTP	C5'-O5'-PA-O2A
160	IO	501	GTP	C5'-O5'-PA-O2A
160	IQ	501	GTP	C5'-O5'-PA-O3A
160	IQ	501	GTP	C5'-O5'-PA-O1A
160	IQ	501	GTP	C5'-O5'-PA-O2A
160	IS	501	GTP	C5'-O5'-PA-O3A
160	IS	501	GTP	C5'-O5'-PA-O1A
160	IS	501	GTP	C5'-O5'-PA-O2A
160	IU	501	GTP	C5'-O5'-PA-O3A
160	IU	501	GTP	C5'-O5'-PA-O1A
160	IU	501	GTP	C5'-O5'-PA-O2A
160	IW	501	GTP	C5'-O5'-PA-O3A
160	IW	501	GTP	C5'-O5'-PA-O1A
160	IW	501	GTP	C5'-O5'-PA-O2A
160	IY	501	GTP	C5'-O5'-PA-O3A
160	IY	501	GTP	C5'-O5'-PA-O1A
160	IY	501	GTP	C5'-O5'-PA-O2A
160	JA	501	GTP	C5'-O5'-PA-O3A
160	JA	501	GTP	C5'-O5'-PA-O1A
160	JA	501	GTP	C5'-O5'-PA-O2A
160	JC	501	GTP	C5'-O5'-PA-O3A
160	JC	501	GTP	C5'-O5'-PA-O1A
160	JC	501	GTP	C5'-O5'-PA-O2A
160	JE	501	GTP	C5'-O5'-PA-O3A
160	JE	501	GTP	C5'-O5'-PA-O1A
160	JE	501	GTP	C5'-O5'-PA-O2A
160	JH	602	GTP	C5'-O5'-PA-O3A
160	JH	602	GTP	C5'-O5'-PA-O1A
160	JH	602	GTP	C5'-O5'-PA-O2A
160	JJ	501	GTP	C5'-O5'-PA-O3A
160	JJ	501	GTP	C5'-O5'-PA-O1A
160	JJ	501	GTP	C5'-O5'-PA-O2A
160	JL	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	JL	501	GTP	C5'-O5'-PA-O1A
160	JL	501	GTP	C5'-O5'-PA-O2A
160	JN	501	GTP	C5'-O5'-PA-O3A
160	JN	501	GTP	C5'-O5'-PA-O1A
160	JN	501	GTP	C5'-O5'-PA-O2A
160	JP	602	GTP	C5'-O5'-PA-O3A
160	JP	602	GTP	C5'-O5'-PA-O1A
160	JP	602	GTP	C5'-O5'-PA-O2A
160	JR	602	GTP	C5'-O5'-PA-O3A
160	JR	602	GTP	C5'-O5'-PA-O1A
160	JR	602	GTP	C5'-O5'-PA-O2A
160	JT	501	GTP	C5'-O5'-PA-O3A
160	JT	501	GTP	C5'-O5'-PA-O1A
160	JT	501	GTP	C5'-O5'-PA-O2A
160	JV	501	GTP	C5'-O5'-PA-O3A
160	JV	501	GTP	C5'-O5'-PA-O1A
160	JV	501	GTP	C5'-O5'-PA-O2A
160	JX	501	GTP	C5'-O5'-PA-O3A
160	JX	501	GTP	C5'-O5'-PA-O1A
160	JX	501	GTP	C5'-O5'-PA-O2A
160	JZ	501	GTP	C5'-O5'-PA-O3A
160	JZ	501	GTP	C5'-O5'-PA-O1A
160	JZ	501	GTP	C5'-O5'-PA-O2A
160	KB	501	GTP	C5'-O5'-PA-O3A
160	KB	501	GTP	C5'-O5'-PA-O1A
160	KB	501	GTP	C5'-O5'-PA-O2A
160	KD	501	GTP	C5'-O5'-PA-O3A
160	KD	501	GTP	C5'-O5'-PA-O1A
160	KD	501	GTP	C5'-O5'-PA-O2A
160	KF	602	GTP	C5'-O5'-PA-O3A
160	KF	602	GTP	C5'-O5'-PA-O1A
160	KF	602	GTP	C5'-O5'-PA-O2A
160	KH	501	GTP	C5'-O5'-PA-O3A
160	KH	501	GTP	C5'-O5'-PA-O1A
160	KH	501	GTP	C5'-O5'-PA-O2A
160	KJ	602	GTP	C5'-O5'-PA-O3A
160	KJ	602	GTP	C5'-O5'-PA-O1A
160	KJ	602	GTP	C5'-O5'-PA-O2A
160	KL	602	GTP	C5'-O5'-PA-O3A
160	KL	602	GTP	C5'-O5'-PA-O1A
160	KL	602	GTP	C5'-O5'-PA-O2A
160	KN	602	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	KN	602	GTP	C5'-O5'-PA-O1A
160	KN	602	GTP	C5'-O5'-PA-O2A
160	KP	602	GTP	C5'-O5'-PA-O3A
160	KP	602	GTP	C5'-O5'-PA-O1A
160	KP	602	GTP	C5'-O5'-PA-O2A
160	KR	602	GTP	C5'-O5'-PA-O3A
160	KR	602	GTP	C5'-O5'-PA-O1A
160	KR	602	GTP	C5'-O5'-PA-O2A
160	KT	501	GTP	C5'-O5'-PA-O3A
160	KT	501	GTP	C5'-O5'-PA-O1A
160	KT	501	GTP	C5'-O5'-PA-O2A
160	KV	602	GTP	C5'-O5'-PA-O3A
160	KV	602	GTP	C5'-O5'-PA-O1A
160	KV	602	GTP	C5'-O5'-PA-O2A
160	KX	501	GTP	C5'-O5'-PA-O3A
160	KX	501	GTP	C5'-O5'-PA-O1A
160	KX	501	GTP	C5'-O5'-PA-O2A
160	KZ	602	GTP	C5'-O5'-PA-O3A
160	KZ	602	GTP	C5'-O5'-PA-O1A
160	KZ	602	GTP	C5'-O5'-PA-O2A
160	LB	501	GTP	C5'-O5'-PA-O3A
160	LB	501	GTP	C5'-O5'-PA-O1A
160	LB	501	GTP	C5'-O5'-PA-O2A
160	LD	602	GTP	C5'-O5'-PA-O3A
160	LD	602	GTP	C5'-O5'-PA-O1A
160	LD	602	GTP	C5'-O5'-PA-O2A
160	LF	602	GTP	C5'-O5'-PA-O3A
160	LF	602	GTP	C5'-O5'-PA-O1A
160	LF	602	GTP	C5'-O5'-PA-O2A
160	LH	501	GTP	C5'-O5'-PA-O3A
160	LH	501	GTP	C5'-O5'-PA-O1A
160	LH	501	GTP	C5'-O5'-PA-O2A
160	LJ	501	GTP	C5'-O5'-PA-O3A
160	LJ	501	GTP	C5'-O5'-PA-O1A
160	LJ	501	GTP	C5'-O5'-PA-O2A
160	LL	501	GTP	C5'-O5'-PA-O3A
160	LL	501	GTP	C5'-O5'-PA-O1A
160	LL	501	GTP	C5'-O5'-PA-O2A
160	LN	501	GTP	C5'-O5'-PA-O3A
160	LN	501	GTP	C5'-O5'-PA-O1A
160	LN	501	GTP	C5'-O5'-PA-O2A
160	LP	502	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	LP	502	GTP	C5'-O5'-PA-O1A
160	LP	502	GTP	C5'-O5'-PA-O2A
160	LR	501	GTP	C5'-O5'-PA-O3A
160	LR	501	GTP	C5'-O5'-PA-O1A
160	LR	501	GTP	C5'-O5'-PA-O2A
160	LT	602	GTP	C5'-O5'-PA-O3A
160	LT	602	GTP	C5'-O5'-PA-O1A
160	LT	602	GTP	C5'-O5'-PA-O2A
160	LV	502	GTP	C5'-O5'-PA-O3A
160	LV	502	GTP	C5'-O5'-PA-O1A
160	LV	502	GTP	C5'-O5'-PA-O2A
160	LX	501	GTP	C5'-O5'-PA-O3A
160	LX	501	GTP	C5'-O5'-PA-O1A
160	LX	501	GTP	C5'-O5'-PA-O2A
160	LZ	501	GTP	C5'-O5'-PA-O3A
160	LZ	501	GTP	C5'-O5'-PA-O1A
160	LZ	501	GTP	C5'-O5'-PA-O2A
160	MB	502	GTP	C5'-O5'-PA-O3A
160	MB	502	GTP	C5'-O5'-PA-O1A
160	MB	502	GTP	C5'-O5'-PA-O2A
160	MD	502	GTP	C5'-O5'-PA-O3A
160	MD	502	GTP	C5'-O5'-PA-O1A
160	MD	502	GTP	C5'-O5'-PA-O2A
160	MF	602	GTP	C5'-O5'-PA-O3A
160	MF	602	GTP	C5'-O5'-PA-O1A
160	MF	602	GTP	C5'-O5'-PA-O2A
160	MH	501	GTP	C5'-O5'-PA-O3A
160	MH	501	GTP	C5'-O5'-PA-O1A
160	MH	501	GTP	C5'-O5'-PA-O2A
160	MJ	602	GTP	C5'-O5'-PA-O3A
160	MJ	602	GTP	C5'-O5'-PA-O1A
160	MJ	602	GTP	C5'-O5'-PA-O2A
160	ML	602	GTP	C5'-O5'-PA-O3A
160	ML	602	GTP	C5'-O5'-PA-O1A
160	ML	602	GTP	C5'-O5'-PA-O2A
160	MN	502	GTP	C5'-O5'-PA-O3A
160	MN	502	GTP	C5'-O5'-PA-O1A
160	MN	502	GTP	C5'-O5'-PA-O2A
160	MP	501	GTP	C5'-O5'-PA-O3A
160	MP	501	GTP	C5'-O5'-PA-O1A
160	MP	501	GTP	C5'-O5'-PA-O2A
160	MR	602	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	MR	602	GTP	C5'-O5'-PA-O1A
160	MR	602	GTP	C5'-O5'-PA-O2A
160	MT	501	GTP	C5'-O5'-PA-O3A
160	MT	501	GTP	C5'-O5'-PA-O1A
160	MT	501	GTP	C5'-O5'-PA-O2A
160	MV	502	GTP	C5'-O5'-PA-O3A
160	MV	502	GTP	C5'-O5'-PA-O1A
160	MV	502	GTP	C5'-O5'-PA-O2A
160	MX	502	GTP	C5'-O5'-PA-O3A
160	MX	502	GTP	C5'-O5'-PA-O1A
160	MX	502	GTP	C5'-O5'-PA-O2A
160	MZ	602	GTP	C5'-O5'-PA-O3A
160	MZ	602	GTP	C5'-O5'-PA-O1A
160	MZ	602	GTP	C5'-O5'-PA-O2A
160	NB	501	GTP	C5'-O5'-PA-O3A
160	NB	501	GTP	C5'-O5'-PA-O1A
160	NB	501	GTP	C5'-O5'-PA-O2A
160	ND	501	GTP	C5'-O5'-PA-O3A
160	ND	501	GTP	C5'-O5'-PA-O1A
160	ND	501	GTP	C5'-O5'-PA-O2A
160	NF	502	GTP	C5'-O5'-PA-O3A
160	NF	502	GTP	C5'-O5'-PA-O1A
160	NF	502	GTP	C5'-O5'-PA-O2A
160	NH	502	GTP	C5'-O5'-PA-O3A
160	NH	502	GTP	C5'-O5'-PA-O1A
160	NH	502	GTP	C5'-O5'-PA-O2A
160	NJ	503	GTP	C5'-O5'-PA-O3A
160	NJ	503	GTP	C5'-O5'-PA-O1A
160	NJ	503	GTP	C5'-O5'-PA-O2A
160	NL	602	GTP	C5'-O5'-PA-O3A
160	NL	602	GTP	C5'-O5'-PA-O1A
160	NL	602	GTP	C5'-O5'-PA-O2A
160	NN	501	GTP	C5'-O5'-PA-O3A
160	NN	501	GTP	C5'-O5'-PA-O1A
160	NN	501	GTP	C5'-O5'-PA-O2A
160	NP	501	GTP	C5'-O5'-PA-O3A
160	NP	501	GTP	C5'-O5'-PA-O1A
160	NP	501	GTP	C5'-O5'-PA-O2A
160	NR	502	GTP	C5'-O5'-PA-O3A
160	NR	502	GTP	C5'-O5'-PA-O1A
160	NR	502	GTP	C5'-O5'-PA-O2A
160	NT	602	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	NT	602	GTP	C5'-O5'-PA-O1A
160	NT	602	GTP	C5'-O5'-PA-O2A
160	NV	503	GTP	C5'-O5'-PA-O3A
160	NV	503	GTP	C5'-O5'-PA-O1A
160	NV	503	GTP	C5'-O5'-PA-O2A
160	NX	501	GTP	C5'-O5'-PA-O3A
160	NX	501	GTP	C5'-O5'-PA-O1A
160	NX	501	GTP	C5'-O5'-PA-O2A
160	NZ	602	GTP	C5'-O5'-PA-O3A
160	NZ	602	GTP	C5'-O5'-PA-O1A
160	NZ	602	GTP	C5'-O5'-PA-O2A
160	OB	501	GTP	C5'-O5'-PA-O3A
160	OB	501	GTP	C5'-O5'-PA-O1A
160	OB	501	GTP	C5'-O5'-PA-O2A
160	OD	602	GTP	C5'-O5'-PA-O3A
160	OD	602	GTP	C5'-O5'-PA-O1A
160	OD	602	GTP	C5'-O5'-PA-O2A
160	OF	501	GTP	C5'-O5'-PA-O3A
160	OF	501	GTP	C5'-O5'-PA-O1A
160	OF	501	GTP	C5'-O5'-PA-O2A
160	OH	501	GTP	C5'-O5'-PA-O3A
160	OH	501	GTP	C5'-O5'-PA-O1A
160	OH	501	GTP	C5'-O5'-PA-O2A
160	OJ	602	GTP	C5'-O5'-PA-O3A
160	OJ	602	GTP	C5'-O5'-PA-O1A
160	OJ	602	GTP	C5'-O5'-PA-O2A
160	OL	602	GTP	C5'-O5'-PA-O3A
160	OL	602	GTP	C5'-O5'-PA-O1A
160	OL	602	GTP	C5'-O5'-PA-O2A
160	ON	501	GTP	C5'-O5'-PA-O3A
160	ON	501	GTP	C5'-O5'-PA-O1A
160	ON	501	GTP	C5'-O5'-PA-O2A
160	OP	501	GTP	C5'-O5'-PA-O3A
160	OP	501	GTP	C5'-O5'-PA-O1A
160	OP	501	GTP	C5'-O5'-PA-O2A
160	OR	602	GTP	C5'-O5'-PA-O3A
160	OR	602	GTP	C5'-O5'-PA-O1A
160	OR	602	GTP	C5'-O5'-PA-O2A
160	OT	602	GTP	C5'-O5'-PA-O3A
160	OT	602	GTP	C5'-O5'-PA-O1A
160	OT	602	GTP	C5'-O5'-PA-O2A
160	OV	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	OV	501	GTP	C5'-O5'-PA-O1A
160	OV	501	GTP	C5'-O5'-PA-O2A
160	OX	602	GTP	C5'-O5'-PA-O3A
160	OX	602	GTP	C5'-O5'-PA-O1A
160	OX	602	GTP	C5'-O5'-PA-O2A
160	OZ	501	GTP	C5'-O5'-PA-O3A
160	OZ	501	GTP	C5'-O5'-PA-O1A
160	OZ	501	GTP	C5'-O5'-PA-O2A
160	PC	602	GTP	C5'-O5'-PA-O3A
160	PC	602	GTP	C5'-O5'-PA-O1A
160	PC	602	GTP	C5'-O5'-PA-O2A
160	PE	602	GTP	C5'-O5'-PA-O3A
160	PE	602	GTP	C5'-O5'-PA-O1A
160	PE	602	GTP	C5'-O5'-PA-O2A
160	PG	501	GTP	C5'-O5'-PA-O3A
160	PG	501	GTP	C5'-O5'-PA-O1A
160	PG	501	GTP	C5'-O5'-PA-O2A
160	PI	602	GTP	C5'-O5'-PA-O3A
160	PI	602	GTP	C5'-O5'-PA-O1A
160	PI	602	GTP	C5'-O5'-PA-O2A
160	PK	501	GTP	C5'-O5'-PA-O3A
160	PK	501	GTP	C5'-O5'-PA-O1A
160	PK	501	GTP	C5'-O5'-PA-O2A
160	PM	602	GTP	C5'-O5'-PA-O3A
160	PM	602	GTP	C5'-O5'-PA-O1A
160	PM	602	GTP	C5'-O5'-PA-O2A
160	PO	602	GTP	C5'-O5'-PA-O3A
160	PO	602	GTP	C5'-O5'-PA-O1A
160	PO	602	GTP	C5'-O5'-PA-O2A
160	PQ	501	GTP	C5'-O5'-PA-O3A
160	PQ	501	GTP	C5'-O5'-PA-O1A
160	PQ	501	GTP	C5'-O5'-PA-O2A
160	PS	501	GTP	C5'-O5'-PA-O3A
160	PS	501	GTP	C5'-O5'-PA-O1A
160	PS	501	GTP	C5'-O5'-PA-O2A
160	PU	602	GTP	C5'-O5'-PA-O3A
160	PU	602	GTP	C5'-O5'-PA-O1A
160	PU	602	GTP	C5'-O5'-PA-O2A
160	PW	501	GTP	C5'-O5'-PA-O3A
160	PW	501	GTP	C5'-O5'-PA-O1A
160	PW	501	GTP	C5'-O5'-PA-O2A
160	PY	602	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	PY	602	GTP	C5'-O5'-PA-O1A
160	PY	602	GTP	C5'-O5'-PA-O2A
160	QA	602	GTP	C5'-O5'-PA-O3A
160	QA	602	GTP	C5'-O5'-PA-O1A
160	QA	602	GTP	C5'-O5'-PA-O2A
160	QC	501	GTP	C5'-O5'-PA-O3A
160	QC	501	GTP	C5'-O5'-PA-O1A
160	QC	501	GTP	C5'-O5'-PA-O2A
160	QE	501	GTP	C5'-O5'-PA-O3A
160	QE	501	GTP	C5'-O5'-PA-O1A
160	QE	501	GTP	C5'-O5'-PA-O2A
160	QG	602	GTP	C5'-O5'-PA-O3A
160	QG	602	GTP	C5'-O5'-PA-O1A
160	QG	602	GTP	C5'-O5'-PA-O2A
160	QI	602	GTP	C5'-O5'-PA-O3A
160	QI	602	GTP	C5'-O5'-PA-O1A
160	QI	602	GTP	C5'-O5'-PA-O2A
160	QK	602	GTP	C5'-O5'-PA-O3A
160	QK	602	GTP	C5'-O5'-PA-O1A
160	QK	602	GTP	C5'-O5'-PA-O2A
160	QM	501	GTP	C5'-O5'-PA-O3A
160	QM	501	GTP	C5'-O5'-PA-O1A
160	QM	501	GTP	C5'-O5'-PA-O2A
160	QO	602	GTP	C5'-O5'-PA-O3A
160	QO	602	GTP	C5'-O5'-PA-O1A
160	QO	602	GTP	C5'-O5'-PA-O2A
160	QQ	501	GTP	C5'-O5'-PA-O3A
160	QQ	501	GTP	C5'-O5'-PA-O1A
160	QQ	501	GTP	C5'-O5'-PA-O2A
160	QS	501	GTP	C5'-O5'-PA-O3A
160	QS	501	GTP	C5'-O5'-PA-O1A
160	QS	501	GTP	C5'-O5'-PA-O2A
160	QU	602	GTP	C5'-O5'-PA-O3A
160	QU	602	GTP	C5'-O5'-PA-O1A
160	QU	602	GTP	C5'-O5'-PA-O2A
160	QW	501	GTP	C5'-O5'-PA-O3A
160	QW	501	GTP	C5'-O5'-PA-O1A
160	QW	501	GTP	C5'-O5'-PA-O2A
160	QY	501	GTP	C5'-O5'-PA-O3A
160	QY	501	GTP	C5'-O5'-PA-O1A
160	QY	501	GTP	C5'-O5'-PA-O2A
160	RA	602	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	RA	602	GTP	C5'-O5'-PA-O1A
160	RA	602	GTP	C5'-O5'-PA-O2A
160	RC	501	GTP	C5'-O5'-PA-O3A
160	RC	501	GTP	C5'-O5'-PA-O1A
160	RC	501	GTP	C5'-O5'-PA-O2A
160	RE	501	GTP	C5'-O5'-PA-O3A
160	RE	501	GTP	C5'-O5'-PA-O1A
160	RE	501	GTP	C5'-O5'-PA-O2A
160	RG	501	GTP	C5'-O5'-PA-O3A
160	RG	501	GTP	C5'-O5'-PA-O1A
160	RG	501	GTP	C5'-O5'-PA-O2A
160	RI	501	GTP	C5'-O5'-PA-O3A
160	RI	501	GTP	C5'-O5'-PA-O1A
160	RI	501	GTP	C5'-O5'-PA-O2A
160	RK	602	GTP	C5'-O5'-PA-O3A
160	RK	602	GTP	C5'-O5'-PA-O1A
160	RK	602	GTP	C5'-O5'-PA-O2A
160	RM	501	GTP	C5'-O5'-PA-O3A
160	RM	501	GTP	C5'-O5'-PA-O1A
160	RM	501	GTP	C5'-O5'-PA-O2A
160	RO	602	GTP	C5'-O5'-PA-O3A
160	RO	602	GTP	C5'-O5'-PA-O1A
160	RO	602	GTP	C5'-O5'-PA-O2A
160	RQ	501	GTP	C5'-O5'-PA-O3A
160	RQ	501	GTP	C5'-O5'-PA-O1A
160	RQ	501	GTP	C5'-O5'-PA-O2A
160	RS	501	GTP	C5'-O5'-PA-O3A
160	RS	501	GTP	C5'-O5'-PA-O1A
160	RS	501	GTP	C5'-O5'-PA-O2A
160	RU	501	GTP	C5'-O5'-PA-O3A
160	RU	501	GTP	C5'-O5'-PA-O1A
160	RU	501	GTP	C5'-O5'-PA-O2A
160	RW	501	GTP	C5'-O5'-PA-O3A
160	RW	501	GTP	C5'-O5'-PA-O1A
160	RW	501	GTP	C5'-O5'-PA-O2A
160	RY	602	GTP	C5'-O5'-PA-O3A
160	RY	602	GTP	C5'-O5'-PA-O1A
160	RY	602	GTP	C5'-O5'-PA-O2A
160	SA	501	GTP	C5'-O5'-PA-O3A
160	SA	501	GTP	C5'-O5'-PA-O1A
160	SC	602	GTP	C5'-O5'-PA-O3A
160	SC	602	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
160	SC	602	GTP	C5'-O5'-PA-O2A
160	SE	501	GTP	C5'-O5'-PA-O3A
160	SE	501	GTP	C5'-O5'-PA-O1A
160	SE	501	GTP	C5'-O5'-PA-O2A
160	SG	501	GTP	C5'-O5'-PA-O3A
160	SG	501	GTP	C5'-O5'-PA-O1A
160	SG	501	GTP	C5'-O5'-PA-O2A
160	SI	501	GTP	C5'-O5'-PA-O3A
160	SI	501	GTP	C5'-O5'-PA-O1A
160	SI	501	GTP	C5'-O5'-PA-O2A
160	SK	602	GTP	C5'-O5'-PA-O3A
160	SK	602	GTP	C5'-O5'-PA-O1A
160	SK	602	GTP	C5'-O5'-PA-O2A
160	SM	501	GTP	C5'-O5'-PA-O3A
160	SM	501	GTP	C5'-O5'-PA-O1A
160	SM	501	GTP	C5'-O5'-PA-O2A
160	SO	501	GTP	C5'-O5'-PA-O3A
160	SO	501	GTP	C5'-O5'-PA-O1A
160	SO	501	GTP	C5'-O5'-PA-O2A
160	SQ	602	GTP	C5'-O5'-PA-O3A
160	SQ	602	GTP	C5'-O5'-PA-O1A
160	SQ	602	GTP	C5'-O5'-PA-O2A
160	SU	501	GTP	C5'-O5'-PA-O3A
160	SU	501	GTP	C5'-O5'-PA-O1A
160	SU	501	GTP	C5'-O5'-PA-O2A
160	SW	501	GTP	C5'-O5'-PA-O3A
160	SW	501	GTP	C5'-O5'-PA-O1A
160	SW	501	GTP	C5'-O5'-PA-O2A
160	SY	602	GTP	C5'-O5'-PA-O3A
160	SY	602	GTP	C5'-O5'-PA-O1A
160	SY	602	GTP	C5'-O5'-PA-O2A
160	TA	602	GTP	C5'-O5'-PA-O3A
160	TA	602	GTP	C5'-O5'-PA-O1A
160	TA	602	GTP	C5'-O5'-PA-O2A
160	TC	501	GTP	C5'-O5'-PA-O3A
160	TC	501	GTP	C5'-O5'-PA-O1A
160	TC	501	GTP	C5'-O5'-PA-O2A
160	TE	501	GTP	C5'-O5'-PA-O3A
160	TE	501	GTP	C5'-O5'-PA-O1A
160	TE	501	GTP	C5'-O5'-PA-O2A
160	TG	501	GTP	C5'-O5'-PA-O3A
160	TG	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
160	TG	501	GTP	C5'-O5'-PA-O2A
160	TI	501	GTP	C5'-O5'-PA-O3A
160	TI	501	GTP	C5'-O5'-PA-O1A
160	TI	501	GTP	C5'-O5'-PA-O2A
160	TK	501	GTP	C5'-O5'-PA-O3A
160	TK	501	GTP	C5'-O5'-PA-O1A
160	TK	501	GTP	C5'-O5'-PA-O2A
160	TM	501	GTP	C5'-O5'-PA-O3A
160	TM	501	GTP	C5'-O5'-PA-O1A
160	TM	501	GTP	C5'-O5'-PA-O2A
160	TO	501	GTP	C5'-O5'-PA-O3A
160	TO	501	GTP	C5'-O5'-PA-O1A
160	TO	501	GTP	C5'-O5'-PA-O2A
160	TQ	602	GTP	C5'-O5'-PA-O3A
160	TQ	602	GTP	C5'-O5'-PA-O1A
160	TQ	602	GTP	C5'-O5'-PA-O2A
160	TR	501	GTP	C5'-O5'-PA-O3A
160	TR	501	GTP	C5'-O5'-PA-O1A
160	TR	501	GTP	C5'-O5'-PA-O2A
160	TT	602	GTP	C5'-O5'-PA-O3A
160	TT	602	GTP	C5'-O5'-PA-O1A
160	TT	602	GTP	C5'-O5'-PA-O2A
160	TV	501	GTP	C5'-O5'-PA-O3A
160	TV	501	GTP	C5'-O5'-PA-O1A
160	TV	501	GTP	C5'-O5'-PA-O2A
160	TX	602	GTP	C5'-O5'-PA-O3A
160	TX	602	GTP	C5'-O5'-PA-O1A
160	TX	602	GTP	C5'-O5'-PA-O2A
160	TZ	602	GTP	C5'-O5'-PA-O3A
160	TZ	602	GTP	C5'-O5'-PA-O1A
160	TZ	602	GTP	C5'-O5'-PA-O2A
160	UB	501	GTP	C5'-O5'-PA-O3A
160	UB	501	GTP	C5'-O5'-PA-O1A
160	UB	501	GTP	C5'-O5'-PA-O2A
160	UD	501	GTP	C5'-O5'-PA-O3A
160	UD	501	GTP	C5'-O5'-PA-O1A
160	UD	501	GTP	C5'-O5'-PA-O2A
160	UF	501	GTP	C5'-O5'-PA-O3A
160	UF	501	GTP	C5'-O5'-PA-O1A
160	UF	501	GTP	C5'-O5'-PA-O2A
160	UH	501	GTP	C5'-O5'-PA-O3A
160	UH	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
160	UH	501	GTP	C5'-O5'-PA-O2A
160	UJ	501	GTP	C5'-O5'-PA-O1A
160	UL	602	GTP	C5'-O5'-PA-O3A
160	UL	602	GTP	C5'-O5'-PA-O1A
160	UL	602	GTP	C5'-O5'-PA-O2A
160	UN	602	GTP	C5'-O5'-PA-O3A
160	UN	602	GTP	C5'-O5'-PA-O1A
160	UN	602	GTP	C5'-O5'-PA-O2A
160	UP	501	GTP	C5'-O5'-PA-O3A
160	UP	501	GTP	C5'-O5'-PA-O1A
160	UP	501	GTP	C5'-O5'-PA-O2A
160	UR	501	GTP	C5'-O5'-PA-O3A
160	UR	501	GTP	C5'-O5'-PA-O1A
160	UR	501	GTP	C5'-O5'-PA-O2A
160	UT	501	GTP	C5'-O5'-PA-O3A
160	UT	501	GTP	C5'-O5'-PA-O1A
160	UT	501	GTP	C5'-O5'-PA-O2A
160	UW	602	GTP	C5'-O5'-PA-O3A
160	UW	602	GTP	C5'-O5'-PA-O1A
160	UW	602	GTP	C5'-O5'-PA-O2A
160	UY	602	GTP	C5'-O5'-PA-O3A
160	UY	602	GTP	C5'-O5'-PA-O1A
160	UY	602	GTP	C5'-O5'-PA-O2A
160	VA	501	GTP	C5'-O5'-PA-O3A
160	VA	501	GTP	C5'-O5'-PA-O1A
160	VA	501	GTP	C5'-O5'-PA-O2A
160	VC	501	GTP	C5'-O5'-PA-O2A
160	VE	501	GTP	C5'-O5'-PA-O3A
160	VE	501	GTP	C5'-O5'-PA-O1A
160	VE	501	GTP	C5'-O5'-PA-O2A
160	VG	501	GTP	C5'-O5'-PA-O3A
160	VG	501	GTP	C5'-O5'-PA-O1A
160	VG	501	GTP	C5'-O5'-PA-O2A
160	VI	501	GTP	C5'-O5'-PA-O3A
160	VI	501	GTP	C5'-O5'-PA-O1A
160	VI	501	GTP	C5'-O5'-PA-O2A
160	VK	501	GTP	C5'-O5'-PA-O3A
160	VK	501	GTP	C5'-O5'-PA-O1A
160	VK	501	GTP	C5'-O5'-PA-O2A
160	VM	602	GTP	C5'-O5'-PA-O3A
160	VM	602	GTP	C5'-O5'-PA-O1A
160	VM	602	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	VO	501	GTP	C5'-O5'-PA-O3A
160	VO	501	GTP	C5'-O5'-PA-O1A
160	VO	501	GTP	C5'-O5'-PA-O2A
160	VQ	501	GTP	C5'-O5'-PA-O3A
160	VQ	501	GTP	C5'-O5'-PA-O1A
160	VQ	501	GTP	C5'-O5'-PA-O2A
160	VS	501	GTP	C5'-O5'-PA-O3A
160	VS	501	GTP	C5'-O5'-PA-O1A
160	VS	501	GTP	C5'-O5'-PA-O2A
160	VU	501	GTP	C5'-O5'-PA-O3A
160	VU	501	GTP	C5'-O5'-PA-O1A
160	VU	501	GTP	C5'-O5'-PA-O2A
160	VW	501	GTP	C5'-O5'-PA-O3A
160	VW	501	GTP	C5'-O5'-PA-O1A
160	VW	501	GTP	C5'-O5'-PA-O2A
160	VY	501	GTP	C5'-O5'-PA-O3A
160	VY	501	GTP	C5'-O5'-PA-O1A
160	VY	501	GTP	C5'-O5'-PA-O2A
160	WA	602	GTP	C5'-O5'-PA-O3A
160	WA	602	GTP	C5'-O5'-PA-O1A
160	WA	602	GTP	C5'-O5'-PA-O2A
160	WC	501	GTP	C5'-O5'-PA-O3A
160	WC	501	GTP	C5'-O5'-PA-O1A
160	WC	501	GTP	C5'-O5'-PA-O2A
160	WE	602	GTP	C5'-O5'-PA-O3A
160	WE	602	GTP	C5'-O5'-PA-O1A
160	WE	602	GTP	C5'-O5'-PA-O2A
160	WI	602	GTP	C5'-O5'-PA-O3A
160	WI	602	GTP	C5'-O5'-PA-O1A
160	WI	602	GTP	C5'-O5'-PA-O2A
160	WK	602	GTP	C5'-O5'-PA-O3A
160	WK	602	GTP	C5'-O5'-PA-O1A
160	WK	602	GTP	C5'-O5'-PA-O2A
160	WM	602	GTP	C5'-O5'-PA-O3A
160	WM	602	GTP	C5'-O5'-PA-O1A
160	WM	602	GTP	C5'-O5'-PA-O2A
160	WO	501	GTP	C5'-O5'-PA-O3A
160	WO	501	GTP	C5'-O5'-PA-O1A
160	WO	501	GTP	C5'-O5'-PA-O2A
160	WQ	602	GTP	C5'-O5'-PA-O3A
160	WQ	602	GTP	C5'-O5'-PA-O1A
160	WQ	602	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	WS	501	GTP	C5'-O5'-PA-O2A
160	WU	501	GTP	C5'-O5'-PA-O3A
160	WU	501	GTP	C5'-O5'-PA-O1A
160	WU	501	GTP	C5'-O5'-PA-O2A
160	WW	501	GTP	C5'-O5'-PA-O3A
160	WW	501	GTP	C5'-O5'-PA-O1A
160	WW	501	GTP	C5'-O5'-PA-O2A
160	WY	602	GTP	C5'-O5'-PA-O3A
160	WY	602	GTP	C5'-O5'-PA-O1A
160	WY	602	GTP	C5'-O5'-PA-O2A
160	XA	501	GTP	C5'-O5'-PA-O3A
160	XA	501	GTP	C5'-O5'-PA-O1A
160	XA	501	GTP	C5'-O5'-PA-O2A
160	XC	602	GTP	C5'-O5'-PA-O3A
160	XC	602	GTP	C5'-O5'-PA-O1A
160	XC	602	GTP	C5'-O5'-PA-O2A
160	XE	501	GTP	C5'-O5'-PA-O3A
160	XE	501	GTP	C5'-O5'-PA-O1A
160	XE	501	GTP	C5'-O5'-PA-O2A
160	XG	602	GTP	C5'-O5'-PA-O3A
160	XG	602	GTP	C5'-O5'-PA-O1A
160	XG	602	GTP	C5'-O5'-PA-O2A
160	XI	602	GTP	C5'-O5'-PA-O3A
160	XI	602	GTP	C5'-O5'-PA-O1A
160	XI	602	GTP	C5'-O5'-PA-O2A
160	XK	501	GTP	C5'-O5'-PA-O3A
160	XK	501	GTP	C5'-O5'-PA-O1A
160	XK	501	GTP	C5'-O5'-PA-O2A
160	XM	602	GTP	C5'-O5'-PA-O3A
160	XM	602	GTP	C5'-O5'-PA-O1A
160	XM	602	GTP	C4'-C5'-O5'-PA
160	XM	602	GTP	O4'-C4'-C5'-O5'
160	XO	602	GTP	C5'-O5'-PA-O3A
160	XO	602	GTP	C5'-O5'-PA-O1A
160	XO	602	GTP	C5'-O5'-PA-O2A
160	XQ	501	GTP	C5'-O5'-PA-O3A
160	XQ	501	GTP	C5'-O5'-PA-O1A
160	XQ	501	GTP	C5'-O5'-PA-O2A
160	XS	501	GTP	C5'-O5'-PA-O3A
160	XS	501	GTP	C5'-O5'-PA-O1A
160	XS	501	GTP	C5'-O5'-PA-O2A
160	XU	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
160	XU	501	GTP	C5'-O5'-PA-O1A
160	XU	501	GTP	C5'-O5'-PA-O2A
160	XW	602	GTP	C5'-O5'-PA-O3A
160	XW	602	GTP	C5'-O5'-PA-O1A
160	XW	602	GTP	C5'-O5'-PA-O2A
160	XY	501	GTP	C5'-O5'-PA-O3A
160	XY	501	GTP	C5'-O5'-PA-O1A
160	XY	501	GTP	C4'-C5'-O5'-PA
160	XY	501	GTP	O4'-C4'-C5'-O5'
160	YA	602	GTP	C5'-O5'-PA-O3A
160	YA	602	GTP	C5'-O5'-PA-O1A
160	YA	602	GTP	C5'-O5'-PA-O2A
160	YC	501	GTP	C5'-O5'-PA-O3A
160	YC	501	GTP	C5'-O5'-PA-O1A
160	YC	501	GTP	C5'-O5'-PA-O2A
160	YE	602	GTP	C5'-O5'-PA-O3A
160	YE	602	GTP	C5'-O5'-PA-O1A
160	YE	602	GTP	C5'-O5'-PA-O2A
160	YG	602	GTP	C5'-O5'-PA-O3A
160	YG	602	GTP	C5'-O5'-PA-O1A
160	YG	602	GTP	C5'-O5'-PA-O2A
160	YJ	602	GTP	C5'-O5'-PA-O3A
160	YJ	602	GTP	C5'-O5'-PA-O1A
160	YJ	602	GTP	C5'-O5'-PA-O2A
160	YL	602	GTP	C5'-O5'-PA-O3A
160	YL	602	GTP	C5'-O5'-PA-O1A
160	YL	602	GTP	C5'-O5'-PA-O2A
160	YN	501	GTP	C5'-O5'-PA-O3A
160	YN	501	GTP	C5'-O5'-PA-O1A
160	YN	501	GTP	C5'-O5'-PA-O2A
160	YP	602	GTP	C5'-O5'-PA-O3A
160	YP	602	GTP	C5'-O5'-PA-O1A
160	YP	602	GTP	C5'-O5'-PA-O2A
160	YR	501	GTP	C5'-O5'-PA-O3A
160	YR	501	GTP	C5'-O5'-PA-O1A
160	YR	501	GTP	C5'-O5'-PA-O2A
160	YT	602	GTP	C5'-O5'-PA-O3A
160	YT	602	GTP	C5'-O5'-PA-O1A
160	YT	602	GTP	C5'-O5'-PA-O2A
160	YV	602	GTP	C5'-O5'-PA-O3A
160	YV	602	GTP	C5'-O5'-PA-O1A
160	YV	602	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	YX	602	GTP	C5'-O5'-PA-O3A
160	YX	602	GTP	C5'-O5'-PA-O1A
160	YX	602	GTP	C5'-O5'-PA-O2A
160	YZ	602	GTP	C5'-O5'-PA-O3A
160	YZ	602	GTP	C5'-O5'-PA-O1A
160	YZ	602	GTP	C5'-O5'-PA-O2A
160	ZB	501	GTP	C5'-O5'-PA-O3A
160	ZB	501	GTP	C5'-O5'-PA-O1A
160	ZB	501	GTP	C5'-O5'-PA-O2A
160	ZD	501	GTP	C5'-O5'-PA-O3A
160	ZD	501	GTP	C5'-O5'-PA-O1A
160	ZD	501	GTP	C5'-O5'-PA-O2A
160	ZF	602	GTP	C5'-O5'-PA-O3A
160	ZF	602	GTP	C5'-O5'-PA-O1A
160	ZF	602	GTP	C5'-O5'-PA-O2A
160	ZH	501	GTP	C5'-O5'-PA-O3A
160	ZH	501	GTP	C5'-O5'-PA-O1A
160	ZH	501	GTP	C5'-O5'-PA-O2A
160	ZJ	501	GTP	C5'-O5'-PA-O3A
160	ZJ	501	GTP	C5'-O5'-PA-O1A
160	ZJ	501	GTP	C5'-O5'-PA-O2A
160	ZL	602	GTP	C5'-O5'-PA-O3A
160	ZL	602	GTP	C5'-O5'-PA-O1A
160	ZL	602	GTP	C5'-O5'-PA-O2A
160	ZN	602	GTP	C5'-O5'-PA-O3A
160	ZN	602	GTP	C5'-O5'-PA-O1A
160	ZN	602	GTP	C5'-O5'-PA-O2A
160	ZP	501	GTP	C5'-O5'-PA-O3A
160	ZP	501	GTP	C5'-O5'-PA-O1A
160	ZP	501	GTP	C5'-O5'-PA-O2A
160	ZR	602	GTP	C5'-O5'-PA-O3A
160	ZR	602	GTP	C5'-O5'-PA-O1A
160	ZR	602	GTP	C5'-O5'-PA-O2A
160	ZT	602	GTP	C5'-O5'-PA-O3A
160	ZT	602	GTP	C5'-O5'-PA-O1A
160	ZT	602	GTP	C5'-O5'-PA-O2A
160	ZV	602	GTP	C5'-O5'-PA-O3A
160	ZV	602	GTP	C5'-O5'-PA-O1A
160	ZV	602	GTP	C5'-O5'-PA-O2A
160	ZX	501	GTP	C5'-O5'-PA-O3A
160	ZX	501	GTP	C5'-O5'-PA-O1A
160	ZX	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
160	ZZ	501	GTP	C5'-O5'-PA-O3A
160	ZZ	501	GTP	C5'-O5'-PA-O1A
160	ZZ	501	GTP	C5'-O5'-PA-O2A
156	7a	4701	ATP	O4'-C4'-C5'-O5'
156	7a	4702	ATP	O4'-C4'-C5'-O5'
156	7b	4703	ATP	C3'-C4'-C5'-O5'
156	7e	4702	ATP	O4'-C4'-C5'-O5'
156	7e	4703	ATP	O4'-C4'-C5'-O5'
156	8e	4702	ATP	O4'-C4'-C5'-O5'
156	8e	4703	ATP	O4'-C4'-C5'-O5'
156	9e	5001	ATP	C3'-C4'-C5'-O5'
156	9e	5003	ATP	O4'-C4'-C5'-O5'
156	9e	5004	ATP	O4'-C4'-C5'-O5'
156	9f	4704	ATP	O4'-C4'-C5'-O5'
157	7a	4703	ADP	C3'-C4'-C5'-O5'
157	7e	4701	ADP	C3'-C4'-C5'-O5'
157	8e	4701	ADP	C3'-C4'-C5'-O5'
157	9e	5002	ADP	C3'-C4'-C5'-O5'
160	UJ	501	GTP	C3'-C4'-C5'-O5'
160	XM	602	GTP	C3'-C4'-C5'-O5'
160	XY	501	GTP	C3'-C4'-C5'-O5'
156	7a	4701	ATP	C3'-C4'-C5'-O5'
156	7b	4703	ATP	O4'-C4'-C5'-O5'
156	7e	4702	ATP	C3'-C4'-C5'-O5'
156	7f	4702	ATP	O4'-C4'-C5'-O5'
156	7f	4703	ATP	O4'-C4'-C5'-O5'
156	8e	4702	ATP	C3'-C4'-C5'-O5'
156	8e	4703	ATP	C3'-C4'-C5'-O5'
156	8e	4704	ATP	O4'-C4'-C5'-O5'
156	8e	4704	ATP	C3'-C4'-C5'-O5'
156	9e	5001	ATP	O4'-C4'-C5'-O5'
156	9e	5003	ATP	C3'-C4'-C5'-O5'
156	9e	5004	ATP	C3'-C4'-C5'-O5'
156	9f	4701	ATP	O4'-C4'-C5'-O5'
156	9f	4704	ATP	C3'-C4'-C5'-O5'
160	UJ	501	GTP	O4'-C4'-C5'-O5'
156	7a	4702	ATP	C3'-C4'-C5'-O5'
156	7e	4703	ATP	C3'-C4'-C5'-O5'
156	7e	4704	ATP	O4'-C4'-C5'-O5'
156	7e	4704	ATP	C3'-C4'-C5'-O5'
156	7f	4703	ATP	C3'-C4'-C5'-O5'
156	7a	4704	ATP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
156	7a	4704	ATP	C3'-C4'-C5'-O5'
156	8f	4702	ATP	C3'-C4'-C5'-O5'
156	8f	4702	ATP	O4'-C4'-C5'-O5'
156	8f	4703	ATP	O4'-C4'-C5'-O5'
160	SS	602	GTP	C3'-C4'-C5'-O5'
156	8f	4703	ATP	C3'-C4'-C5'-O5'
156	8f	4703	ATP	PA-O3A-PB-O3B
156	7a	4702	ATP	PG-O3B-PB-O1B
156	7a	4704	ATP	PA-O3A-PB-O1B
156	7f	4702	ATP	PG-O3B-PB-O1B
156	9f	4703	ATP	PG-O3B-PB-O1B
160	AB	602	GTP	PG-O3B-PB-O1B
160	AD	501	GTP	PG-O3B-PB-O1B
160	AF	501	GTP	PG-O3B-PB-O1B
160	AH	501	GTP	PG-O3B-PB-O1B
160	AJ	501	GTP	PG-O3B-PB-O1B
160	AL	602	GTP	PG-O3B-PB-O1B
160	AN	501	GTP	PG-O3B-PB-O1B
160	AP	602	GTP	PG-O3B-PB-O1B
160	AR	602	GTP	PG-O3B-PB-O1B
160	AT	501	GTP	PG-O3B-PB-O1B
160	AV	501	GTP	PG-O3B-PB-O1B
160	AX	501	GTP	PG-O3B-PB-O1B
160	AZ	501	GTP	PG-O3B-PB-O1B
160	Ab	501	GTP	PG-O3B-PB-O1B
160	Af	501	GTP	PG-O3B-PB-O1B
160	Ah	501	GTP	PG-O3B-PB-O1B
160	Aj	501	GTP	PG-O3B-PB-O1B
160	Al	602	GTP	PG-O3B-PB-O1B
160	An	602	GTP	PG-O3B-PB-O1B
160	Ap	501	GTP	PG-O3B-PB-O1B
160	BB	501	GTP	PG-O3B-PB-O1B
160	BD	602	GTP	PG-O3B-PB-O1B
160	BF	602	GTP	PG-O3B-PB-O1B
160	BH	602	GTP	PG-O3B-PB-O1B
160	BJ	602	GTP	PG-O3B-PB-O1B
160	BL	501	GTP	PG-O3B-PB-O1B
160	BN	602	GTP	PG-O3B-PB-O1B
160	BP	501	GTP	PG-O3B-PB-O1B
160	BR	501	GTP	PG-O3B-PB-O1B
160	BT	602	GTP	PG-O3B-PB-O1B
160	BV	602	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	BX	602	GTP	PG-O3B-PB-O1B
160	BZ	501	GTP	PG-O3B-PB-O1B
160	CB	501	GTP	PG-O3B-PB-O1B
160	CD	602	GTP	PG-O3B-PB-O1B
160	CF	501	GTP	PG-O3B-PB-O1B
160	CI	501	GTP	PG-O3B-PB-O1B
160	CJ	501	GTP	PG-O3B-PB-O1B
160	CL	501	GTP	PG-O3B-PB-O1B
160	CN	602	GTP	PG-O3B-PB-O1B
160	CP	602	GTP	PG-O3B-PB-O1B
160	CR	501	GTP	PG-O3B-PB-O1B
160	CT	602	GTP	PG-O3B-PB-O1B
160	CV	501	GTP	PG-O3B-PB-O1B
160	CZ	501	GTP	PG-O3B-PB-O1B
160	DB	501	GTP	PG-O3B-PB-O1B
160	DD	501	GTP	PG-O3B-PB-O1B
160	DF	501	GTP	PG-O3B-PB-O1B
160	DH	501	GTP	PG-O3B-PB-O1B
160	DJ	501	GTP	PG-O3B-PB-O1B
160	DL	501	GTP	PG-O3B-PB-O1B
160	DM	501	GTP	PG-O3B-PB-O1B
160	DO	501	GTP	PG-O3B-PB-O1B
160	DQ	501	GTP	PG-O3B-PB-O1B
160	DS	602	GTP	PG-O3B-PB-O1B
160	DW	602	GTP	PG-O3B-PB-O1B
160	DY	501	GTP	PG-O3B-PB-O1B
160	EA	501	GTP	PG-O3B-PB-O1B
160	EC	501	GTP	PG-O3B-PB-O1B
160	EE	501	GTP	PG-O3B-PB-O1B
160	EG	501	GTP	PG-O3B-PB-O1B
160	EI	501	GTP	PG-O3B-PB-O1B
160	EK	602	GTP	PG-O3B-PB-O1B
160	EM	501	GTP	PG-O3B-PB-O1B
160	EO	501	GTP	PG-O3B-PB-O1B
160	EQ	602	GTP	PG-O3B-PB-O1B
160	ES	501	GTP	PG-O3B-PB-O1B
160	EU	501	GTP	PG-O3B-PB-O1B
160	EY	501	GTP	PG-O3B-PB-O1B
160	FA	602	GTP	PG-O3B-PB-O1B
160	FC	501	GTP	PG-O3B-PB-O1B
160	FE	501	GTP	PG-O3B-PB-O1B
160	FG	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	FI	602	GTP	PG-O3B-PB-O1B
160	FK	501	GTP	PG-O3B-PB-O1B
160	FM	501	GTP	PG-O3B-PB-O1B
160	FO	602	GTP	PG-O3B-PB-O1B
160	FQ	501	GTP	PG-O3B-PB-O1B
160	FS	602	GTP	PG-O3B-PB-O1B
160	FW	602	GTP	PG-O3B-PB-O1B
160	FY	501	GTP	PG-O3B-PB-O1B
160	GA	602	GTP	PG-O3B-PB-O1B
160	GC	602	GTP	PG-O3B-PB-O1B
160	GE	602	GTP	PG-O3B-PB-O1B
160	GG	501	GTP	PG-O3B-PB-O1B
160	GI	501	GTP	PG-O3B-PB-O1B
160	GK	602	GTP	PG-O3B-PB-O1B
160	GM	501	GTP	PG-O3B-PB-O1B
160	GO	501	GTP	PG-O3B-PB-O1B
160	GQ	602	GTP	PG-O3B-PB-O1B
160	GS	602	GTP	PG-O3B-PB-O1B
160	GU	602	GTP	PG-O3B-PB-O1B
160	GW	501	GTP	PG-O3B-PB-O1B
160	HA	501	GTP	PG-O3B-PB-O1B
160	HC	602	GTP	PG-O3B-PB-O1B
160	HE	602	GTP	PG-O3B-PB-O1B
160	HG	501	GTP	PG-O3B-PB-O1B
160	HI	602	GTP	PG-O3B-PB-O1B
160	HK	501	GTP	PG-O3B-PB-O1B
160	HM	602	GTP	PG-O3B-PB-O1B
160	HO	501	GTP	PG-O3B-PB-O1B
160	HQ	602	GTP	PG-O3B-PB-O1B
160	HS	501	GTP	PG-O3B-PB-O1B
160	HU	602	GTP	PG-O3B-PB-O1B
160	HW	501	GTP	PG-O3B-PB-O1B
160	HY	501	GTP	PG-O3B-PB-O1B
160	IA	501	GTP	PG-O3B-PB-O1B
160	IE	501	GTP	PG-O3B-PB-O1B
160	IM	602	GTP	PG-O3B-PB-O1B
160	IQ	501	GTP	PG-O3B-PB-O1B
160	IS	501	GTP	PG-O3B-PB-O1B
160	IW	501	GTP	PG-O3B-PB-O1B
160	IY	501	GTP	PG-O3B-PB-O1B
160	JA	501	GTP	PG-O3B-PB-O1B
160	JC	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	JH	602	GTP	PG-O3B-PB-O1B
160	JJ	501	GTP	PG-O3B-PB-O1B
160	JN	501	GTP	PG-O3B-PB-O1B
160	JP	602	GTP	PG-O3B-PB-O1B
160	JR	602	GTP	PG-O3B-PB-O1B
160	JT	501	GTP	PG-O3B-PB-O1B
160	JV	501	GTP	PG-O3B-PB-O1B
160	JX	501	GTP	PG-O3B-PB-O1B
160	JZ	501	GTP	PG-O3B-PB-O1B
160	KB	501	GTP	PG-O3B-PB-O1B
160	KD	501	GTP	PG-O3B-PB-O1B
160	KF	602	GTP	PG-O3B-PB-O1B
160	KH	501	GTP	PG-O3B-PB-O1B
160	KJ	602	GTP	PG-O3B-PB-O1B
160	KL	602	GTP	PG-O3B-PB-O1B
160	KN	602	GTP	PG-O3B-PB-O1B
160	KP	602	GTP	PG-O3B-PB-O1B
160	KR	602	GTP	PG-O3B-PB-O1B
160	KT	501	GTP	PG-O3B-PB-O1B
160	KV	602	GTP	PG-O3B-PB-O1B
160	KX	501	GTP	PG-O3B-PB-O1B
160	KZ	602	GTP	PG-O3B-PB-O1B
160	LB	501	GTP	PG-O3B-PB-O1B
160	LD	602	GTP	PG-O3B-PB-O1B
160	LF	602	GTP	PG-O3B-PB-O1B
160	LH	501	GTP	PG-O3B-PB-O1B
160	LJ	501	GTP	PG-O3B-PB-O1B
160	LL	501	GTP	PG-O3B-PB-O1B
160	LN	501	GTP	PG-O3B-PB-O1B
160	LP	502	GTP	PG-O3B-PB-O1B
160	LR	501	GTP	PG-O3B-PB-O1B
160	LT	602	GTP	PG-O3B-PB-O1B
160	LV	502	GTP	PG-O3B-PB-O1B
160	LX	501	GTP	PG-O3B-PB-O1B
160	LZ	501	GTP	PG-O3B-PB-O1B
160	MB	502	GTP	PG-O3B-PB-O1B
160	MD	502	GTP	PG-O3B-PB-O1B
160	MF	602	GTP	PG-O3B-PB-O1B
160	MH	501	GTP	PG-O3B-PB-O1B
160	MJ	602	GTP	PG-O3B-PB-O1B
160	ML	602	GTP	PG-O3B-PB-O1B
160	MN	502	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	MP	501	GTP	PG-O3B-PB-O1B
160	MR	602	GTP	PG-O3B-PB-O1B
160	MT	501	GTP	PG-O3B-PB-O1B
160	MV	502	GTP	PG-O3B-PB-O1B
160	MX	502	GTP	PG-O3B-PB-O1B
160	MZ	602	GTP	PG-O3B-PB-O1B
160	NB	501	GTP	PG-O3B-PB-O1B
160	ND	501	GTP	PG-O3B-PB-O1B
160	NF	502	GTP	PG-O3B-PB-O1B
160	NH	502	GTP	PG-O3B-PB-O1B
160	NJ	503	GTP	PG-O3B-PB-O1B
160	NL	602	GTP	PG-O3B-PB-O1B
160	NN	501	GTP	PG-O3B-PB-O1B
160	NP	501	GTP	PG-O3B-PB-O1B
160	NR	502	GTP	PG-O3B-PB-O1B
160	NT	602	GTP	PG-O3B-PB-O1B
160	NV	503	GTP	PG-O3B-PB-O1B
160	NX	501	GTP	PG-O3B-PB-O1B
160	NZ	602	GTP	PG-O3B-PB-O1B
160	OB	501	GTP	PG-O3B-PB-O1B
160	OD	602	GTP	PG-O3B-PB-O1B
160	OF	501	GTP	PG-O3B-PB-O1B
160	OH	501	GTP	PG-O3B-PB-O1B
160	OJ	602	GTP	PG-O3B-PB-O1B
160	OL	602	GTP	PG-O3B-PB-O1B
160	ON	501	GTP	PG-O3B-PB-O1B
160	OP	501	GTP	PG-O3B-PB-O1B
160	OR	602	GTP	PG-O3B-PB-O1B
160	OT	602	GTP	PG-O3B-PB-O1B
160	OV	501	GTP	PG-O3B-PB-O1B
160	OX	602	GTP	PG-O3B-PB-O1B
160	OZ	501	GTP	PG-O3B-PB-O1B
160	PC	602	GTP	PG-O3B-PB-O1B
160	PE	602	GTP	PG-O3B-PB-O1B
160	PG	501	GTP	PG-O3B-PB-O1B
160	PI	602	GTP	PG-O3B-PB-O1B
160	PK	501	GTP	PG-O3B-PB-O1B
160	PM	602	GTP	PG-O3B-PB-O1B
160	PO	602	GTP	PG-O3B-PB-O1B
160	PQ	501	GTP	PG-O3B-PB-O1B
160	PS	501	GTP	PG-O3B-PB-O1B
160	PU	602	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	PW	501	GTP	PG-O3B-PB-O1B
160	PY	602	GTP	PG-O3B-PB-O1B
160	QA	602	GTP	PG-O3B-PB-O1B
160	QC	501	GTP	PG-O3B-PB-O1B
160	QE	501	GTP	PG-O3B-PB-O1B
160	QG	602	GTP	PG-O3B-PB-O1B
160	QK	602	GTP	PG-O3B-PB-O1B
160	QM	501	GTP	PG-O3B-PB-O1B
160	QQ	501	GTP	PG-O3B-PB-O1B
160	QS	501	GTP	PG-O3B-PB-O1B
160	QU	602	GTP	PG-O3B-PB-O1B
160	QW	501	GTP	PG-O3B-PB-O1B
160	QY	501	GTP	PG-O3B-PB-O1B
160	RA	602	GTP	PG-O3B-PB-O1B
160	RC	501	GTP	PG-O3B-PB-O1B
160	RE	501	GTP	PG-O3B-PB-O1B
160	RG	501	GTP	PG-O3B-PB-O1B
160	RI	501	GTP	PG-O3B-PB-O1B
160	RK	602	GTP	PG-O3B-PB-O1B
160	RM	501	GTP	PG-O3B-PB-O1B
160	RO	602	GTP	PG-O3B-PB-O1B
160	RQ	501	GTP	PG-O3B-PB-O1B
160	RS	501	GTP	PG-O3B-PB-O1B
160	RU	501	GTP	PG-O3B-PB-O1B
160	RW	501	GTP	PG-O3B-PB-O1B
160	RY	602	GTP	PG-O3B-PB-O1B
160	SC	602	GTP	PG-O3B-PB-O1B
160	SE	501	GTP	PG-O3B-PB-O1B
160	SG	501	GTP	PG-O3B-PB-O1B
160	SI	501	GTP	PG-O3B-PB-O1B
160	SK	602	GTP	PG-O3B-PB-O1B
160	SM	501	GTP	PG-O3B-PB-O1B
160	SO	501	GTP	PG-O3B-PB-O1B
160	SQ	602	GTP	PG-O3B-PB-O1B
160	SU	501	GTP	PG-O3B-PB-O1B
160	SW	501	GTP	PG-O3B-PB-O1B
160	SY	602	GTP	PG-O3B-PB-O1B
160	TA	602	GTP	PG-O3B-PB-O1B
160	TC	501	GTP	PG-O3B-PB-O1B
160	TE	501	GTP	PG-O3B-PB-O1B
160	TG	501	GTP	PG-O3B-PB-O1B
160	TI	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	TK	501	GTP	PG-O3B-PB-O1B
160	TM	501	GTP	PG-O3B-PB-O1B
160	TO	501	GTP	PG-O3B-PB-O1B
160	TQ	602	GTP	PG-O3B-PB-O1B
160	TR	501	GTP	PG-O3B-PB-O1B
160	TT	602	GTP	PG-O3B-PB-O1B
160	TV	501	GTP	PG-O3B-PB-O1B
160	TZ	602	GTP	PG-O3B-PB-O1B
160	UB	501	GTP	PG-O3B-PB-O1B
160	UD	501	GTP	PG-O3B-PB-O1B
160	UF	501	GTP	PG-O3B-PB-O1B
160	UH	501	GTP	PG-O3B-PB-O1B
160	UL	602	GTP	PG-O3B-PB-O1B
160	UN	602	GTP	PG-O3B-PB-O1B
160	UP	501	GTP	PG-O3B-PB-O1B
160	UR	501	GTP	PG-O3B-PB-O1B
160	UT	501	GTP	PG-O3B-PB-O1B
160	UW	602	GTP	PG-O3B-PB-O1B
160	UY	602	GTP	PG-O3B-PB-O1B
160	VA	501	GTP	PG-O3B-PB-O1B
160	VE	501	GTP	PG-O3B-PB-O1B
160	VG	501	GTP	PG-O3B-PB-O1B
160	VI	501	GTP	PG-O3B-PB-O1B
160	VK	501	GTP	PG-O3B-PB-O1B
160	VM	602	GTP	PG-O3B-PB-O1B
160	VQ	501	GTP	PG-O3B-PB-O1B
160	VS	501	GTP	PG-O3B-PB-O1B
160	VU	501	GTP	PG-O3B-PB-O1B
160	VW	501	GTP	PG-O3B-PB-O1B
160	VY	501	GTP	PG-O3B-PB-O1B
160	WC	501	GTP	PG-O3B-PB-O1B
160	WI	602	GTP	PG-O3B-PB-O1B
160	WK	602	GTP	PG-O3B-PB-O1B
160	WM	602	GTP	PG-O3B-PB-O1B
160	WO	501	GTP	PG-O3B-PB-O1B
160	WQ	602	GTP	PG-O3B-PB-O1B
160	WU	501	GTP	PG-O3B-PB-O1B
160	WW	501	GTP	PG-O3B-PB-O1B
160	WY	602	GTP	PG-O3B-PB-O1B
160	XA	501	GTP	PG-O3B-PB-O1B
160	XC	602	GTP	PG-O3B-PB-O1B
160	XE	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	XI	602	GTP	PG-O3B-PB-O1B
160	XK	501	GTP	PG-O3B-PB-O1B
160	XQ	501	GTP	PG-O3B-PB-O1B
160	XU	501	GTP	PG-O3B-PB-O1B
160	XW	602	GTP	PG-O3B-PB-O1B
160	YC	501	GTP	PG-O3B-PB-O1B
160	YG	602	GTP	PG-O3B-PB-O1B
160	YJ	602	GTP	PG-O3B-PB-O1B
160	YL	602	GTP	PG-O3B-PB-O1B
160	YN	501	GTP	PG-O3B-PB-O1B
160	YR	501	GTP	PG-O3B-PB-O1B
160	YV	602	GTP	PG-O3B-PB-O1B
160	YX	602	GTP	PG-O3B-PB-O1B
160	YZ	602	GTP	PG-O3B-PB-O1B
160	ZD	501	GTP	PG-O3B-PB-O1B
160	ZH	501	GTP	PG-O3B-PB-O1B
160	ZJ	501	GTP	PG-O3B-PB-O1B
160	ZL	602	GTP	PG-O3B-PB-O1B
160	ZN	602	GTP	PG-O3B-PB-O1B
160	ZP	501	GTP	PG-O3B-PB-O1B
160	ZR	602	GTP	PG-O3B-PB-O1B
160	ZT	602	GTP	PG-O3B-PB-O1B
160	ZV	602	GTP	PG-O3B-PB-O1B
160	ZX	501	GTP	PG-O3B-PB-O1B
160	ZZ	501	GTP	PG-O3B-PB-O1B
156	9f	4703	ATP	PA-O3A-PB-O3B
156	7b	4702	ATP	PB-O3A-PA-O5'
156	7f	4703	ATP	PB-O3B-PG-O1G
156	7b	4702	ATP	PG-O3B-PB-O3A
156	8f	4702	ATP	PG-O3B-PB-O3A
156	8e	4702	ATP	PB-O3B-PG-O2G
156	9e	5004	ATP	PB-O3B-PG-O3G
158	AG	501	GDP	PA-O3A-PB-O2B
157	7f	4701	ADP	O4'-C4'-C5'-O5'
156	7b	4703	ATP	PB-O3A-PA-O1A
156	7f	4703	ATP	PB-O3A-PA-O1A
156	8e	4702	ATP	PG-O3B-PB-O2B
156	8e	4704	ATP	PG-O3B-PB-O2B
156	8f	4704	ATP	PG-O3B-PB-O2B
157	7a	4703	ADP	PB-O3A-PA-O1A
160	Ad	602	GTP	PG-O3B-PB-O1B
160	CX	602	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	DU	501	GTP	PG-O3B-PB-O1B
160	EW	501	GTP	PG-O3B-PB-O1B
160	IG	501	GTP	PG-O3B-PB-O1B
160	II	501	GTP	PG-O3B-PB-O2B
160	IK	602	GTP	PG-O3B-PB-O1B
160	IU	501	GTP	PG-O3B-PB-O1B
160	JE	501	GTP	PG-O3B-PB-O1B
160	QI	602	GTP	PG-O3B-PB-O1B
160	QO	602	GTP	PG-O3B-PB-O1B
160	VO	501	GTP	PG-O3B-PB-O2B
160	WA	602	GTP	PG-O3B-PB-O1B
160	WE	602	GTP	PG-O3B-PB-O1B
160	WG	501	GTP	PA-O3A-PB-O2B
160	WS	501	GTP	PG-O3B-PB-O1B
160	XG	602	GTP	PG-O3B-PB-O1B
160	XO	602	GTP	PG-O3B-PB-O1B
160	XS	501	GTP	PG-O3B-PB-O1B
160	YA	602	GTP	PG-O3B-PB-O1B
160	YE	602	GTP	PG-O3B-PB-O1B
160	YT	602	GTP	PG-O3B-PB-O1B
160	ZF	602	GTP	PG-O3B-PB-O1B
156	9f	4704	ATP	PA-O3A-PB-O3B
156	7b	4701	ATP	PA-O3A-PB-O3B
156	7a	4701	ATP	C5'-O5'-PA-O1A
156	7e	4702	ATP	C5'-O5'-PA-O1A
156	7e	4703	ATP	C5'-O5'-PA-O3A
156	8e	4703	ATP	C5'-O5'-PA-O1A
156	8f	4702	ATP	C5'-O5'-PA-O1A
156	8f	4704	ATP	C5'-O5'-PA-O1A
156	9e	5003	ATP	C5'-O5'-PA-O1A
156	9e	5004	ATP	C5'-O5'-PA-O2A
157	7b	4704	ADP	C5'-O5'-PA-O3A
157	7f	4701	ADP	C5'-O5'-PA-O3A
158	AA	501	GDP	C5'-O5'-PA-O1A
158	AC	501	GDP	C5'-O5'-PA-O1A
158	AE	501	GDP	C5'-O5'-PA-O1A
158	AG	501	GDP	C5'-O5'-PA-O3A
158	AG	501	GDP	C5'-O5'-PA-O1A
158	AI	501	GDP	C5'-O5'-PA-O1A
158	AK	501	GDP	C5'-O5'-PA-O1A
158	AM	501	GDP	C5'-O5'-PA-O1A
158	AO	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	AQ	501	GDP	C5'-O5'-PA-O1A
158	AS	501	GDP	C5'-O5'-PA-O1A
158	AU	501	GDP	C5'-O5'-PA-O1A
158	AW	501	GDP	C5'-O5'-PA-O1A
158	AY	501	GDP	C5'-O5'-PA-O1A
158	Aa	501	GDP	C5'-O5'-PA-O1A
158	Ac	501	GDP	C5'-O5'-PA-O1A
158	Ag	501	GDP	C5'-O5'-PA-O1A
158	Ai	501	GDP	C5'-O5'-PA-O1A
158	Ak	501	GDP	C5'-O5'-PA-O1A
158	Am	501	GDP	C5'-O5'-PA-O1A
158	Ao	501	GDP	C5'-O5'-PA-O1A
158	BA	501	GDP	C5'-O5'-PA-O1A
158	BC	501	GDP	C5'-O5'-PA-O1A
158	BG	501	GDP	C5'-O5'-PA-O1A
158	BI	501	GDP	C5'-O5'-PA-O1A
158	BK	501	GDP	C5'-O5'-PA-O1A
158	BM	501	GDP	C5'-O5'-PA-O1A
158	BO	501	GDP	C5'-O5'-PA-O1A
158	BQ	501	GDP	C5'-O5'-PA-O1A
158	BS	501	GDP	C5'-O5'-PA-O1A
158	BU	501	GDP	C5'-O5'-PA-O1A
158	BW	501	GDP	C5'-O5'-PA-O1A
158	BY	501	GDP	C5'-O5'-PA-O1A
158	CA	501	GDP	C5'-O5'-PA-O1A
158	CC	501	GDP	C5'-O5'-PA-O1A
158	CE	501	GDP	C5'-O5'-PA-O1A
158	CH	501	GDP	C5'-O5'-PA-O1A
158	CK	501	GDP	C5'-O5'-PA-O1A
158	CM	501	GDP	C5'-O5'-PA-O1A
158	CO	501	GDP	C5'-O5'-PA-O1A
158	CQ	501	GDP	C5'-O5'-PA-O1A
158	CS	501	GDP	C5'-O5'-PA-O1A
158	CU	501	GDP	C5'-O5'-PA-O1A
158	CW	501	GDP	C5'-O5'-PA-O1A
158	CY	501	GDP	C5'-O5'-PA-O1A
158	DA	501	GDP	C5'-O5'-PA-O1A
158	DC	501	GDP	C5'-O5'-PA-O1A
158	DE	501	GDP	C5'-O5'-PA-O1A
158	DG	501	GDP	C5'-O5'-PA-O1A
158	DI	501	GDP	C5'-O5'-PA-O1A
158	DK	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	DN	501	GDP	C5'-O5'-PA-O1A
158	DP	501	GDP	C5'-O5'-PA-O1A
158	DR	501	GDP	C5'-O5'-PA-O1A
158	DT	501	GDP	C5'-O5'-PA-O1A
158	DV	501	GDP	C5'-O5'-PA-O1A
158	DX	501	GDP	C5'-O5'-PA-O1A
158	DZ	501	GDP	C5'-O5'-PA-O1A
158	EB	501	GDP	C5'-O5'-PA-O1A
158	ED	501	GDP	C5'-O5'-PA-O1A
158	EF	501	GDP	C5'-O5'-PA-O1A
158	EH	501	GDP	C5'-O5'-PA-O1A
158	EJ	501	GDP	C5'-O5'-PA-O1A
158	EL	501	GDP	C5'-O5'-PA-O1A
158	EN	501	GDP	C5'-O5'-PA-O1A
158	ER	501	GDP	C5'-O5'-PA-O1A
158	ET	501	GDP	C5'-O5'-PA-O1A
158	EV	501	GDP	C5'-O5'-PA-O1A
158	EX	501	GDP	C5'-O5'-PA-O1A
158	EZ	602	GDP	C5'-O5'-PA-O1A
158	FB	501	GDP	C5'-O5'-PA-O1A
158	FD	501	GDP	C5'-O5'-PA-O1A
158	FF	501	GDP	C5'-O5'-PA-O1A
158	FH	501	GDP	C5'-O5'-PA-O1A
158	FJ	501	GDP	C5'-O5'-PA-O1A
158	FL	602	GDP	C5'-O5'-PA-O1A
158	FN	501	GDP	C5'-O5'-PA-O1A
158	FP	501	GDP	C5'-O5'-PA-O1A
158	FR	501	GDP	C5'-O5'-PA-O1A
158	FT	501	GDP	C5'-O5'-PA-O1A
158	FV	501	GDP	C5'-O5'-PA-O1A
158	FX	501	GDP	C5'-O5'-PA-O1A
158	FZ	501	GDP	C5'-O5'-PA-O1A
158	GB	501	GDP	C5'-O5'-PA-O1A
158	GD	501	GDP	C5'-O5'-PA-O1A
158	GF	501	GDP	C5'-O5'-PA-O1A
158	GH	501	GDP	C5'-O5'-PA-O1A
158	GJ	501	GDP	C5'-O5'-PA-O1A
158	GL	501	GDP	C5'-O5'-PA-O1A
158	GN	501	GDP	C5'-O5'-PA-O1A
158	GP	501	GDP	C5'-O5'-PA-O1A
158	GR	501	GDP	C5'-O5'-PA-O1A
158	GT	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	GV	501	GDP	C5'-O5'-PA-O1A
158	GX	501	GDP	C5'-O5'-PA-O1A
158	GZ	501	GDP	C5'-O5'-PA-O1A
158	HD	501	GDP	C5'-O5'-PA-O1A
158	HF	501	GDP	C5'-O5'-PA-O1A
158	HH	501	GDP	C5'-O5'-PA-O1A
158	HJ	501	GDP	C5'-O5'-PA-O1A
158	HL	501	GDP	C5'-O5'-PA-O1A
158	HP	501	GDP	C5'-O5'-PA-O1A
158	HR	501	GDP	C5'-O5'-PA-O1A
158	HT	501	GDP	C5'-O5'-PA-O1A
158	HV	501	GDP	C5'-O5'-PA-O1A
158	HX	501	GDP	C5'-O5'-PA-O1A
158	IB	501	GDP	C5'-O5'-PA-O1A
158	ID	501	GDP	C5'-O5'-PA-O1A
158	IF	501	GDP	C5'-O5'-PA-O1A
158	IH	501	GDP	C5'-O5'-PA-O1A
158	IJ	501	GDP	C5'-O5'-PA-O1A
158	IL	501	GDP	C5'-O5'-PA-O1A
158	IN	501	GDP	C5'-O5'-PA-O1A
158	IP	501	GDP	C5'-O5'-PA-O1A
158	IR	501	GDP	C5'-O5'-PA-O1A
158	IT	501	GDP	C5'-O5'-PA-O1A
158	IV	501	GDP	C5'-O5'-PA-O1A
158	IX	501	GDP	C5'-O5'-PA-O1A
158	IZ	501	GDP	C5'-O5'-PA-O1A
158	JB	501	GDP	C5'-O5'-PA-O1A
158	JD	501	GDP	C5'-O5'-PA-O1A
158	JF	501	GDP	C5'-O5'-PA-O1A
158	JG	501	GDP	C5'-O5'-PA-O1A
158	JI	501	GDP	C5'-O5'-PA-O1A
158	JK	501	GDP	C5'-O5'-PA-O1A
158	JM	501	GDP	C5'-O5'-PA-O1A
158	JO	501	GDP	C5'-O5'-PA-O1A
158	JQ	501	GDP	C5'-O5'-PA-O1A
158	JS	501	GDP	C5'-O5'-PA-O1A
158	JU	501	GDP	C5'-O5'-PA-O1A
158	JW	501	GDP	C5'-O5'-PA-O1A
158	JY	501	GDP	C5'-O5'-PA-O1A
158	KA	501	GDP	C5'-O5'-PA-O1A
158	KC	501	GDP	C5'-O5'-PA-O1A
158	KE	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	KG	501	GDP	C5'-O5'-PA-O1A
158	KI	501	GDP	C5'-O5'-PA-O1A
158	KK	501	GDP	C5'-O5'-PA-O1A
158	KM	501	GDP	C5'-O5'-PA-O1A
158	KO	501	GDP	C5'-O5'-PA-O1A
158	KQ	501	GDP	C5'-O5'-PA-O1A
158	KS	501	GDP	C5'-O5'-PA-O1A
158	KU	501	GDP	C5'-O5'-PA-O1A
158	KW	501	GDP	C5'-O5'-PA-O1A
158	KY	501	GDP	C5'-O5'-PA-O1A
158	LA	501	GDP	C5'-O5'-PA-O1A
158	LC	501	GDP	C5'-O5'-PA-O1A
158	LE	501	GDP	C5'-O5'-PA-O1A
158	LG	501	GDP	C5'-O5'-PA-O1A
158	LI	501	GDP	C5'-O5'-PA-O1A
158	LK	501	GDP	C5'-O5'-PA-O1A
158	LM	501	GDP	C5'-O5'-PA-O1A
158	LO	501	GDP	C5'-O5'-PA-O1A
158	LQ	501	GDP	C5'-O5'-PA-O1A
158	LS	501	GDP	C5'-O5'-PA-O1A
158	LU	501	GDP	C5'-O5'-PA-O1A
158	LW	501	GDP	C5'-O5'-PA-O1A
158	LY	501	GDP	C5'-O5'-PA-O1A
158	MA	501	GDP	C5'-O5'-PA-O1A
158	MC	501	GDP	C5'-O5'-PA-O1A
158	ME	501	GDP	C5'-O5'-PA-O1A
158	MG	501	GDP	C5'-O5'-PA-O1A
158	MI	501	GDP	C5'-O5'-PA-O1A
158	MK	501	GDP	C5'-O5'-PA-O1A
158	MM	501	GDP	C5'-O5'-PA-O1A
158	MO	501	GDP	C5'-O5'-PA-O1A
158	MQ	501	GDP	C5'-O5'-PA-O1A
158	MU	501	GDP	C5'-O5'-PA-O1A
158	MW	501	GDP	C5'-O5'-PA-O1A
158	MY	501	GDP	C5'-O5'-PA-O1A
158	NA	501	GDP	C5'-O5'-PA-O1A
158	NC	501	GDP	C5'-O5'-PA-O1A
158	NE	501	GDP	C5'-O5'-PA-O1A
158	NG	501	GDP	C5'-O5'-PA-O1A
158	NI	501	GDP	C5'-O5'-PA-O1A
158	NK	501	GDP	C5'-O5'-PA-O1A
158	NM	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	NO	501	GDP	C5'-O5'-PA-O1A
158	NQ	501	GDP	C5'-O5'-PA-O1A
158	NS	501	GDP	C5'-O5'-PA-O1A
158	NU	501	GDP	C5'-O5'-PA-O1A
158	NY	501	GDP	C5'-O5'-PA-O1A
158	OA	501	GDP	C5'-O5'-PA-O1A
158	OC	501	GDP	C5'-O5'-PA-O1A
158	OE	501	GDP	C5'-O5'-PA-O1A
158	OG	501	GDP	C5'-O5'-PA-O1A
158	OI	501	GDP	C5'-O5'-PA-O1A
158	OK	501	GDP	C5'-O5'-PA-O1A
158	OM	501	GDP	C5'-O5'-PA-O1A
158	OO	501	GDP	C5'-O5'-PA-O1A
158	OQ	501	GDP	C5'-O5'-PA-O1A
158	OS	501	GDP	C5'-O5'-PA-O1A
158	OU	501	GDP	C5'-O5'-PA-O1A
158	OW	501	GDP	C5'-O5'-PA-O1A
158	OY	501	GDP	C5'-O5'-PA-O1A
158	PA	501	GDP	C5'-O5'-PA-O1A
158	PD	501	GDP	C5'-O5'-PA-O1A
158	PF	501	GDP	C5'-O5'-PA-O1A
158	PH	501	GDP	C5'-O5'-PA-O1A
158	PJ	501	GDP	C5'-O5'-PA-O1A
158	PL	501	GDP	C5'-O5'-PA-O1A
158	PN	501	GDP	C5'-O5'-PA-O1A
158	PP	501	GDP	C5'-O5'-PA-O1A
158	PR	501	GDP	C5'-O5'-PA-O1A
158	PT	501	GDP	C5'-O5'-PA-O1A
158	PV	501	GDP	C5'-O5'-PA-O1A
158	PX	501	GDP	C5'-O5'-PA-O1A
158	PZ	501	GDP	C5'-O5'-PA-O1A
158	QB	501	GDP	C5'-O5'-PA-O1A
158	QD	501	GDP	C5'-O5'-PA-O1A
158	QF	501	GDP	C5'-O5'-PA-O1A
158	QH	501	GDP	C5'-O5'-PA-O1A
158	QJ	501	GDP	C5'-O5'-PA-O1A
158	QL	501	GDP	C5'-O5'-PA-O1A
158	QN	501	GDP	C5'-O5'-PA-O1A
158	QP	501	GDP	C5'-O5'-PA-O1A
158	QR	501	GDP	C5'-O5'-PA-O1A
158	QT	501	GDP	C5'-O5'-PA-O1A
158	QV	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	QX	501	GDP	C5'-O5'-PA-O1A
158	QZ	501	GDP	C5'-O5'-PA-O1A
158	RB	501	GDP	C5'-O5'-PA-O1A
158	RD	501	GDP	C5'-O5'-PA-O1A
158	RF	501	GDP	C5'-O5'-PA-O1A
158	RH	501	GDP	C5'-O5'-PA-O1A
158	RJ	501	GDP	C5'-O5'-PA-O1A
158	RL	501	GDP	C5'-O5'-PA-O1A
158	RN	501	GDP	C5'-O5'-PA-O1A
158	RP	501	GDP	C5'-O5'-PA-O1A
158	RR	501	GDP	C5'-O5'-PA-O1A
158	RT	501	GDP	C5'-O5'-PA-O1A
158	RV	501	GDP	C5'-O5'-PA-O1A
158	RX	501	GDP	C5'-O5'-PA-O1A
158	RZ	501	GDP	C5'-O5'-PA-O1A
158	SB	501	GDP	C5'-O5'-PA-O1A
158	SD	501	GDP	C5'-O5'-PA-O1A
158	SF	501	GDP	C5'-O5'-PA-O1A
158	SH	501	GDP	C5'-O5'-PA-O1A
158	SJ	501	GDP	C5'-O5'-PA-O1A
158	SL	501	GDP	C5'-O5'-PA-O1A
158	SN	501	GDP	C5'-O5'-PA-O1A
158	SP	501	GDP	C5'-O5'-PA-O1A
158	SR	501	GDP	C5'-O5'-PA-O1A
158	ST	501	GDP	C5'-O5'-PA-O1A
158	SV	501	GDP	C5'-O5'-PA-O1A
158	SX	501	GDP	C5'-O5'-PA-O1A
158	SZ	501	GDP	C5'-O5'-PA-O1A
158	TB	501	GDP	C5'-O5'-PA-O1A
158	TD	501	GDP	C5'-O5'-PA-O1A
158	TF	501	GDP	C5'-O5'-PA-O1A
158	TH	501	GDP	C5'-O5'-PA-O1A
158	TJ	501	GDP	C5'-O5'-PA-O1A
158	TL	501	GDP	C5'-O5'-PA-O1A
158	TN	501	GDP	C5'-O5'-PA-O1A
158	TP	501	GDP	C5'-O5'-PA-O1A
158	TS	501	GDP	C5'-O5'-PA-O1A
158	TU	501	GDP	C5'-O5'-PA-O1A
158	TW	501	GDP	C5'-O5'-PA-O1A
158	TY	501	GDP	C5'-O5'-PA-O1A
158	UA	501	GDP	C5'-O5'-PA-O1A
158	UC	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	UE	501	GDP	C5'-O5'-PA-O1A
158	UG	501	GDP	C5'-O5'-PA-O1A
158	UI	501	GDP	C5'-O5'-PA-O1A
158	UK	501	GDP	C5'-O5'-PA-O1A
158	UM	501	GDP	C5'-O5'-PA-O1A
158	UO	501	GDP	C5'-O5'-PA-O1A
158	UQ	501	GDP	C5'-O5'-PA-O1A
158	US	501	GDP	C5'-O5'-PA-O1A
158	UU	501	GDP	C5'-O5'-PA-O1A
158	UX	501	GDP	C5'-O5'-PA-O1A
158	UZ	501	GDP	C5'-O5'-PA-O1A
158	VB	501	GDP	C5'-O5'-PA-O1A
158	VD	501	GDP	C5'-O5'-PA-O1A
158	VF	501	GDP	C5'-O5'-PA-O1A
158	VH	501	GDP	C5'-O5'-PA-O1A
158	VJ	501	GDP	C5'-O5'-PA-O1A
158	VL	501	GDP	C5'-O5'-PA-O1A
158	VN	501	GDP	C5'-O5'-PA-O1A
158	VP	501	GDP	C5'-O5'-PA-O1A
158	VR	501	GDP	C5'-O5'-PA-O1A
158	VT	501	GDP	C5'-O5'-PA-O1A
158	VV	501	GDP	C5'-O5'-PA-O1A
158	VX	501	GDP	C5'-O5'-PA-O1A
158	VZ	501	GDP	C5'-O5'-PA-O1A
158	WB	501	GDP	C5'-O5'-PA-O1A
158	WD	501	GDP	C5'-O5'-PA-O1A
158	WF	501	GDP	C5'-O5'-PA-O1A
158	WH	501	GDP	C5'-O5'-PA-O1A
158	WJ	501	GDP	C5'-O5'-PA-O1A
158	WL	501	GDP	C5'-O5'-PA-O1A
158	WN	501	GDP	C5'-O5'-PA-O1A
158	WP	501	GDP	C5'-O5'-PA-O1A
158	WR	501	GDP	C5'-O5'-PA-O1A
158	WT	501	GDP	C5'-O5'-PA-O1A
158	WV	501	GDP	C5'-O5'-PA-O1A
158	WX	501	GDP	C5'-O5'-PA-O1A
158	WZ	501	GDP	C5'-O5'-PA-O1A
158	XB	501	GDP	C5'-O5'-PA-O1A
158	XD	501	GDP	C5'-O5'-PA-O1A
158	XF	501	GDP	C5'-O5'-PA-O1A
158	XH	501	GDP	C5'-O5'-PA-O1A
158	XJ	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
158	XL	501	GDP	C5'-O5'-PA-O1A
158	XN	501	GDP	C5'-O5'-PA-O1A
158	XP	501	GDP	C5'-O5'-PA-O1A
158	XR	501	GDP	C5'-O5'-PA-O1A
158	XT	501	GDP	C5'-O5'-PA-O1A
158	XV	501	GDP	C5'-O5'-PA-O1A
158	XX	501	GDP	C5'-O5'-PA-O1A
158	XZ	501	GDP	C5'-O5'-PA-O1A
158	YB	501	GDP	C5'-O5'-PA-O1A
158	YD	501	GDP	C5'-O5'-PA-O1A
158	YF	501	GDP	C5'-O5'-PA-O1A
158	YH	501	GDP	C5'-O5'-PA-O1A
158	YK	501	GDP	C5'-O5'-PA-O1A
158	YM	501	GDP	C5'-O5'-PA-O1A
158	YO	501	GDP	C5'-O5'-PA-O1A
158	YQ	501	GDP	C5'-O5'-PA-O1A
158	YS	501	GDP	C5'-O5'-PA-O1A
158	YU	501	GDP	C5'-O5'-PA-O1A
158	YW	501	GDP	C5'-O5'-PA-O1A
158	YY	501	GDP	C5'-O5'-PA-O1A
158	ZA	501	GDP	C5'-O5'-PA-O1A
158	ZC	501	GDP	C5'-O5'-PA-O1A
158	ZE	501	GDP	C5'-O5'-PA-O1A
158	ZG	501	GDP	C5'-O5'-PA-O1A
158	ZI	501	GDP	C5'-O5'-PA-O1A
158	ZK	501	GDP	C5'-O5'-PA-O1A
158	ZM	501	GDP	C5'-O5'-PA-O1A
158	ZO	501	GDP	C5'-O5'-PA-O1A
158	ZQ	501	GDP	C5'-O5'-PA-O1A
158	ZU	501	GDP	C5'-O5'-PA-O1A
158	ZW	501	GDP	C5'-O5'-PA-O1A
158	ZY	501	GDP	C5'-O5'-PA-O1A
160	IO	501	GTP	C5'-O5'-PA-O3A
160	IO	501	GTP	C5'-O5'-PA-O1A
160	VC	501	GTP	C5'-O5'-PA-O3A
160	WS	501	GTP	C5'-O5'-PA-O3A
160	WS	501	GTP	C5'-O5'-PA-O1A
157	8f	4701	ADP	O4'-C4'-C5'-O5'
156	7a	4704	ATP	PG-O3B-PB-O2B
156	7e	4703	ATP	PG-O3B-PB-O2B
156	7e	4704	ATP	PG-O3B-PB-O2B
156	8e	4704	ATP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
156	9e	5004	ATP	PG-O3B-PB-O2B
157	7a	4703	ADP	PB-O3A-PA-O2A
157	7b	4704	ADP	PB-O3A-PA-O1A
157	7b	4704	ADP	PB-O3A-PA-O2A
157	7e	4701	ADP	PB-O3A-PA-O1A
157	7e	4701	ADP	PB-O3A-PA-O2A
157	7f	4701	ADP	PB-O3A-PA-O1A
157	7f	4701	ADP	PB-O3A-PA-O2A
157	8e	4701	ADP	PB-O3A-PA-O2A
157	8f	4701	ADP	PB-O3A-PA-O2A
157	9e	5002	ADP	PB-O3A-PA-O1A
157	9e	5002	ADP	PB-O3A-PA-O2A
157	9f	4702	ADP	PB-O3A-PA-O1A
157	9f	4702	ADP	PB-O3A-PA-O2A
160	AF	501	GTP	PG-O3B-PB-O2B
160	AH	501	GTP	PG-O3B-PB-O2B
160	AJ	501	GTP	PG-O3B-PB-O2B
160	AL	602	GTP	PG-O3B-PB-O2B
160	AN	501	GTP	PG-O3B-PB-O2B
160	AP	602	GTP	PG-O3B-PB-O2B
160	AR	602	GTP	PG-O3B-PB-O2B
160	AT	501	GTP	PG-O3B-PB-O2B
160	AV	501	GTP	PG-O3B-PB-O2B
160	AX	501	GTP	PG-O3B-PB-O2B
160	AZ	501	GTP	PG-O3B-PB-O2B
160	Ab	501	GTP	PG-O3B-PB-O2B
160	Af	501	GTP	PG-O3B-PB-O2B
160	Ah	501	GTP	PG-O3B-PB-O2B
160	Aj	501	GTP	PG-O3B-PB-O2B
160	Al	602	GTP	PG-O3B-PB-O2B
160	An	602	GTP	PG-O3B-PB-O2B
160	Ap	501	GTP	PG-O3B-PB-O2B
160	BB	501	GTP	PG-O3B-PB-O2B
160	BD	602	GTP	PG-O3B-PB-O2B
160	BJ	602	GTP	PG-O3B-PB-O2B
160	BL	501	GTP	PG-O3B-PB-O2B
160	BP	501	GTP	PG-O3B-PB-O2B
160	BT	602	GTP	PG-O3B-PB-O2B
160	BV	602	GTP	PG-O3B-PB-O2B
160	BX	602	GTP	PG-O3B-PB-O2B
160	BZ	501	GTP	PG-O3B-PB-O2B
160	CB	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
160	CD	602	GTP	PG-O3B-PB-O2B
160	CF	501	GTP	PG-O3B-PB-O2B
160	CI	501	GTP	PG-O3B-PB-O2B
160	CJ	501	GTP	PG-O3B-PB-O2B
160	CN	602	GTP	PG-O3B-PB-O2B
160	CP	602	GTP	PG-O3B-PB-O2B
160	CR	501	GTP	PG-O3B-PB-O2B
160	CZ	501	GTP	PG-O3B-PB-O2B
160	DB	501	GTP	PG-O3B-PB-O2B
160	DD	501	GTP	PG-O3B-PB-O2B
160	DF	501	GTP	PG-O3B-PB-O2B
160	DH	501	GTP	PG-O3B-PB-O2B
160	DJ	501	GTP	PG-O3B-PB-O2B
160	DL	501	GTP	PG-O3B-PB-O2B
160	DM	501	GTP	PG-O3B-PB-O2B
160	DQ	501	GTP	PG-O3B-PB-O2B
160	DY	501	GTP	PG-O3B-PB-O2B
160	EA	501	GTP	PG-O3B-PB-O2B
160	EE	501	GTP	PG-O3B-PB-O2B
160	EG	501	GTP	PG-O3B-PB-O2B
160	EI	501	GTP	PG-O3B-PB-O2B
160	EK	602	GTP	PG-O3B-PB-O2B
160	EM	501	GTP	PG-O3B-PB-O2B
160	EO	501	GTP	PG-O3B-PB-O2B
160	EQ	602	GTP	PG-O3B-PB-O2B
160	EU	501	GTP	PG-O3B-PB-O2B
160	EY	501	GTP	PG-O3B-PB-O2B
160	FA	602	GTP	PG-O3B-PB-O2B
160	FC	501	GTP	PG-O3B-PB-O2B
160	FE	501	GTP	PG-O3B-PB-O2B
160	FK	501	GTP	PG-O3B-PB-O2B
160	FM	501	GTP	PG-O3B-PB-O2B
160	FO	602	GTP	PG-O3B-PB-O2B
160	FQ	501	GTP	PG-O3B-PB-O2B
160	FS	602	GTP	PG-O3B-PB-O2B
160	GC	602	GTP	PG-O3B-PB-O2B
160	GE	602	GTP	PG-O3B-PB-O2B
160	GG	501	GTP	PG-O3B-PB-O2B
160	GI	501	GTP	PG-O3B-PB-O2B
160	GK	602	GTP	PG-O3B-PB-O2B
160	GM	501	GTP	PG-O3B-PB-O2B
160	GO	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
160	GQ	602	GTP	PG-O3B-PB-O2B
160	GS	602	GTP	PG-O3B-PB-O2B
160	GU	602	GTP	PG-O3B-PB-O2B
160	GW	501	GTP	PG-O3B-PB-O2B
160	HG	501	GTP	PG-O3B-PB-O2B
160	HI	602	GTP	PG-O3B-PB-O2B
160	HK	501	GTP	PG-O3B-PB-O2B
160	HM	602	GTP	PG-O3B-PB-O2B
160	HO	501	GTP	PG-O3B-PB-O2B
160	HQ	602	GTP	PG-O3B-PB-O2B
160	HS	501	GTP	PG-O3B-PB-O2B
160	HU	602	GTP	PG-O3B-PB-O2B
160	HW	501	GTP	PG-O3B-PB-O2B
160	HY	501	GTP	PG-O3B-PB-O2B
160	IA	501	GTP	PG-O3B-PB-O2B
160	IM	602	GTP	PG-O3B-PB-O2B
160	IS	501	GTP	PG-O3B-PB-O2B
160	IW	501	GTP	PG-O3B-PB-O2B
160	IY	501	GTP	PG-O3B-PB-O2B
160	JA	501	GTP	PG-O3B-PB-O2B
160	JC	501	GTP	PG-O3B-PB-O2B
160	JE	501	GTP	PG-O3B-PB-O2B
160	JN	501	GTP	PG-O3B-PB-O2B
160	JT	501	GTP	PG-O3B-PB-O2B
160	JZ	501	GTP	PG-O3B-PB-O2B
160	KB	501	GTP	PG-O3B-PB-O2B
160	KD	501	GTP	PG-O3B-PB-O2B
160	KF	602	GTP	PG-O3B-PB-O2B
160	KH	501	GTP	PG-O3B-PB-O2B
160	KJ	602	GTP	PG-O3B-PB-O2B
160	KL	602	GTP	PG-O3B-PB-O2B
160	KN	602	GTP	PG-O3B-PB-O2B
160	KP	602	GTP	PG-O3B-PB-O2B
160	KR	602	GTP	PG-O3B-PB-O2B
160	KT	501	GTP	PG-O3B-PB-O2B
160	KV	602	GTP	PG-O3B-PB-O2B
160	KX	501	GTP	PG-O3B-PB-O2B
160	LB	501	GTP	PG-O3B-PB-O2B
160	LD	602	GTP	PG-O3B-PB-O2B
160	LF	602	GTP	PG-O3B-PB-O2B
160	LH	501	GTP	PG-O3B-PB-O2B
160	LJ	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
160	LL	501	GTP	PG-O3B-PB-O2B
160	LN	501	GTP	PG-O3B-PB-O2B
160	LP	502	GTP	PG-O3B-PB-O2B
160	LR	501	GTP	PG-O3B-PB-O2B
160	LT	602	GTP	PG-O3B-PB-O2B
160	LV	502	GTP	PG-O3B-PB-O2B
160	LX	501	GTP	PG-O3B-PB-O2B
160	LZ	501	GTP	PG-O3B-PB-O2B
160	MB	502	GTP	PG-O3B-PB-O2B
160	MD	502	GTP	PG-O3B-PB-O2B
160	MF	602	GTP	PG-O3B-PB-O2B
160	MH	501	GTP	PG-O3B-PB-O2B
160	MJ	602	GTP	PG-O3B-PB-O2B
160	ML	602	GTP	PG-O3B-PB-O2B
160	MN	502	GTP	PG-O3B-PB-O2B
160	MP	501	GTP	PG-O3B-PB-O2B
160	MR	602	GTP	PG-O3B-PB-O2B
160	MT	501	GTP	PG-O3B-PB-O2B
160	MV	502	GTP	PG-O3B-PB-O2B
160	MX	502	GTP	PG-O3B-PB-O2B
160	MZ	602	GTP	PG-O3B-PB-O2B
160	NB	501	GTP	PG-O3B-PB-O2B
160	ND	501	GTP	PG-O3B-PB-O2B
160	NF	502	GTP	PG-O3B-PB-O2B
160	NH	502	GTP	PG-O3B-PB-O2B
160	NJ	503	GTP	PG-O3B-PB-O2B
160	NL	602	GTP	PG-O3B-PB-O2B
160	NN	501	GTP	PG-O3B-PB-O2B
160	NP	501	GTP	PG-O3B-PB-O2B
160	NR	502	GTP	PG-O3B-PB-O2B
160	NT	602	GTP	PG-O3B-PB-O2B
160	NV	503	GTP	PG-O3B-PB-O2B
160	NX	501	GTP	PG-O3B-PB-O2B
160	NZ	602	GTP	PG-O3B-PB-O2B
160	OB	501	GTP	PG-O3B-PB-O2B
160	OD	602	GTP	PG-O3B-PB-O2B
160	OF	501	GTP	PG-O3B-PB-O2B
160	OH	501	GTP	PG-O3B-PB-O2B
160	OJ	602	GTP	PG-O3B-PB-O2B
160	OL	602	GTP	PG-O3B-PB-O2B
160	ON	501	GTP	PG-O3B-PB-O2B
160	OP	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
160	OR	602	GTP	PG-O3B-PB-O2B
160	OT	602	GTP	PG-O3B-PB-O2B
160	OV	501	GTP	PG-O3B-PB-O2B
160	OX	602	GTP	PG-O3B-PB-O2B
160	OZ	501	GTP	PG-O3B-PB-O2B
160	PE	602	GTP	PG-O3B-PB-O2B
160	PG	501	GTP	PG-O3B-PB-O2B
160	PI	602	GTP	PG-O3B-PB-O2B
160	PK	501	GTP	PG-O3B-PB-O2B
160	PM	602	GTP	PG-O3B-PB-O2B
160	PO	602	GTP	PG-O3B-PB-O2B
160	PQ	501	GTP	PG-O3B-PB-O2B
160	PS	501	GTP	PG-O3B-PB-O2B
160	PU	602	GTP	PG-O3B-PB-O2B
160	PW	501	GTP	PG-O3B-PB-O2B
160	PY	602	GTP	PG-O3B-PB-O2B
160	QA	602	GTP	PG-O3B-PB-O2B
160	QC	501	GTP	PG-O3B-PB-O2B
160	QE	501	GTP	PG-O3B-PB-O2B
160	QG	602	GTP	PG-O3B-PB-O2B
160	QK	602	GTP	PG-O3B-PB-O2B
160	QM	501	GTP	PG-O3B-PB-O2B
160	QO	602	GTP	PG-O3B-PB-O2B
160	QQ	501	GTP	PG-O3B-PB-O2B
160	QS	501	GTP	PG-O3B-PB-O2B
160	QU	602	GTP	PG-O3B-PB-O2B
160	QW	501	GTP	PG-O3B-PB-O2B
160	QY	501	GTP	PG-O3B-PB-O2B
160	RA	602	GTP	PG-O3B-PB-O2B
160	RC	501	GTP	PG-O3B-PB-O2B
160	RE	501	GTP	PG-O3B-PB-O2B
160	RG	501	GTP	PG-O3B-PB-O2B
160	RI	501	GTP	PG-O3B-PB-O2B
160	RK	602	GTP	PG-O3B-PB-O2B
160	RO	602	GTP	PG-O3B-PB-O2B
160	RQ	501	GTP	PG-O3B-PB-O2B
160	RS	501	GTP	PG-O3B-PB-O2B
160	RU	501	GTP	PG-O3B-PB-O2B
160	RW	501	GTP	PG-O3B-PB-O2B
160	RY	602	GTP	PG-O3B-PB-O2B
160	SA	501	GTP	PG-O3B-PB-O1B
160	SC	602	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
160	SE	501	GTP	PG-O3B-PB-O2B
160	SG	501	GTP	PG-O3B-PB-O2B
160	SI	501	GTP	PG-O3B-PB-O2B
160	SK	602	GTP	PG-O3B-PB-O2B
160	SM	501	GTP	PG-O3B-PB-O2B
160	SO	501	GTP	PG-O3B-PB-O2B
160	SU	501	GTP	PG-O3B-PB-O2B
160	SW	501	GTP	PG-O3B-PB-O2B
160	SY	602	GTP	PG-O3B-PB-O2B
160	TA	602	GTP	PG-O3B-PB-O2B
160	TE	501	GTP	PG-O3B-PB-O2B
160	TG	501	GTP	PG-O3B-PB-O2B
160	TI	501	GTP	PG-O3B-PB-O2B
160	TK	501	GTP	PG-O3B-PB-O2B
160	TM	501	GTP	PG-O3B-PB-O2B
160	TQ	602	GTP	PG-O3B-PB-O2B
160	TR	501	GTP	PG-O3B-PB-O2B
160	TT	602	GTP	PG-O3B-PB-O2B
160	TV	501	GTP	PG-O3B-PB-O2B
160	TZ	602	GTP	PG-O3B-PB-O2B
160	UB	501	GTP	PG-O3B-PB-O2B
160	UD	501	GTP	PG-O3B-PB-O2B
160	UF	501	GTP	PG-O3B-PB-O2B
160	UH	501	GTP	PG-O3B-PB-O2B
160	UL	602	GTP	PG-O3B-PB-O2B
160	UN	602	GTP	PG-O3B-PB-O2B
160	UP	501	GTP	PG-O3B-PB-O2B
160	UR	501	GTP	PG-O3B-PB-O2B
160	UT	501	GTP	PG-O3B-PB-O2B
160	UW	602	GTP	PG-O3B-PB-O2B
160	UY	602	GTP	PG-O3B-PB-O2B
160	VA	501	GTP	PG-O3B-PB-O2B
160	VE	501	GTP	PG-O3B-PB-O2B
160	VG	501	GTP	PG-O3B-PB-O2B
160	VI	501	GTP	PG-O3B-PB-O2B
160	VK	501	GTP	PG-O3B-PB-O2B
160	VM	602	GTP	PG-O3B-PB-O2B
160	VQ	501	GTP	PG-O3B-PB-O2B
160	VS	501	GTP	PG-O3B-PB-O2B
160	VU	501	GTP	PG-O3B-PB-O2B
160	VW	501	GTP	PG-O3B-PB-O2B
160	VY	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
160	WC	501	GTP	PG-O3B-PB-O2B
160	WG	501	GTP	PA-O3A-PB-O1B
160	WI	602	GTP	PG-O3B-PB-O2B
160	WK	602	GTP	PG-O3B-PB-O2B
160	WM	602	GTP	PG-O3B-PB-O2B
160	WO	501	GTP	PG-O3B-PB-O2B
160	WQ	602	GTP	PG-O3B-PB-O2B
160	WU	501	GTP	PG-O3B-PB-O2B
160	WW	501	GTP	PG-O3B-PB-O2B
160	WY	602	GTP	PG-O3B-PB-O2B
160	XA	501	GTP	PG-O3B-PB-O2B
160	XC	602	GTP	PG-O3B-PB-O2B
160	XG	602	GTP	PG-O3B-PB-O2B
160	XI	602	GTP	PG-O3B-PB-O2B
160	XK	501	GTP	PG-O3B-PB-O2B
160	XQ	501	GTP	PG-O3B-PB-O2B
160	XU	501	GTP	PG-O3B-PB-O2B
160	XW	602	GTP	PG-O3B-PB-O2B
160	YA	602	GTP	PG-O3B-PB-O2B
160	YC	501	GTP	PG-O3B-PB-O2B
160	YE	602	GTP	PG-O3B-PB-O2B
160	YG	602	GTP	PG-O3B-PB-O2B
160	YJ	602	GTP	PG-O3B-PB-O2B
160	YL	602	GTP	PG-O3B-PB-O2B
160	YN	501	GTP	PG-O3B-PB-O2B
160	YP	602	GTP	PG-O3B-PB-O1B
160	YP	602	GTP	PG-O3B-PB-O2B
160	YR	501	GTP	PG-O3B-PB-O2B
160	YT	602	GTP	PG-O3B-PB-O2B
160	YV	602	GTP	PG-O3B-PB-O2B
160	YX	602	GTP	PG-O3B-PB-O2B
160	YZ	602	GTP	PG-O3B-PB-O2B
160	ZB	501	GTP	PG-O3B-PB-O1B
160	ZB	501	GTP	PG-O3B-PB-O2B
160	ZD	501	GTP	PG-O3B-PB-O2B
160	ZF	602	GTP	PG-O3B-PB-O2B
160	ZH	501	GTP	PG-O3B-PB-O2B
160	ZJ	501	GTP	PG-O3B-PB-O2B
160	ZL	602	GTP	PG-O3B-PB-O2B
160	ZN	602	GTP	PG-O3B-PB-O2B
160	ZP	501	GTP	PG-O3B-PB-O2B
160	ZR	602	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
160	ZT	602	GTP	PG-O3B-PB-O2B
160	ZV	602	GTP	PG-O3B-PB-O2B
160	ZX	501	GTP	PG-O3B-PB-O2B
160	ZZ	501	GTP	PG-O3B-PB-O2B
157	7b	4704	ADP	O4'-C4'-C5'-O5'
157	9f	4702	ADP	O4'-C4'-C5'-O5'
156	9f	4703	ATP	C4'-C5'-O5'-PA
156	7b	4701	ATP	PG-O3B-PB-O1B
156	7e	4704	ATP	PA-O3A-PB-O1B
156	7f	4702	ATP	PG-O3B-PB-O2B
156	7f	4704	ATP	PG-O3B-PB-O1B
156	9e	5001	ATP	PG-O3B-PB-O2B
156	9e	5001	ATP	PA-O3A-PB-O1B
157	8e	4701	ADP	PB-O3A-PA-O1A
157	8f	4701	ADP	PB-O3A-PA-O1A
160	AB	602	GTP	PG-O3B-PB-O2B
160	AD	501	GTP	PG-O3B-PB-O2B
160	BF	602	GTP	PG-O3B-PB-O2B
160	BH	602	GTP	PG-O3B-PB-O2B
160	BN	602	GTP	PG-O3B-PB-O2B
160	BR	501	GTP	PG-O3B-PB-O2B
160	DU	501	GTP	PG-O3B-PB-O2B
160	EW	501	GTP	PG-O3B-PB-O2B
160	FG	501	GTP	PG-O3B-PB-O2B
160	FI	602	GTP	PG-O3B-PB-O2B
160	FW	602	GTP	PG-O3B-PB-O2B
160	FY	501	GTP	PG-O3B-PB-O2B
160	GA	602	GTP	PG-O3B-PB-O2B
160	HA	501	GTP	PG-O3B-PB-O2B
160	HE	602	GTP	PG-O3B-PB-O2B
160	IE	501	GTP	PG-O3B-PB-O2B
160	IG	501	GTP	PG-O3B-PB-O2B
160	IK	602	GTP	PG-O3B-PB-O2B
160	IQ	501	GTP	PG-O3B-PB-O2B
160	JJ	501	GTP	PG-O3B-PB-O2B
160	JL	501	GTP	PG-O3B-PB-O1B
160	JV	501	GTP	PG-O3B-PB-O2B
160	KZ	602	GTP	PG-O3B-PB-O2B
160	PC	602	GTP	PG-O3B-PB-O2B
160	QI	602	GTP	PG-O3B-PB-O2B
160	RM	501	GTP	PG-O3B-PB-O2B
160	VO	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
160	WE	602	GTP	PG-O3B-PB-O2B
160	XE	501	GTP	PG-O3B-PB-O2B
160	XO	602	GTP	PG-O3B-PB-O2B
160	XS	501	GTP	PG-O3B-PB-O2B
156	8f	4703	ATP	C4'-C5'-O5'-PA
158	Ae	501	GDP	C4'-C5'-O5'-PA
160	JL	501	GTP	C4'-C5'-O5'-PA
158	ZS	501	GDP	C4'-C5'-O5'-PA
156	8e	4702	ATP	PB-O3B-PG-O1G
156	7f	4704	ATP	PA-O3A-PB-O3B
156	7b	4703	ATP	PB-O3B-PG-O3G
157	7f	4701	ADP	C3'-C4'-C5'-O5'
158	HB	501	GDP	C4'-C5'-O5'-PA
158	HZ	501	GDP	C4'-C5'-O5'-PA
156	7a	4702	ATP	PG-O3B-PB-O2B
156	7a	4702	ATP	PA-O3A-PB-O2B
156	7b	4701	ATP	PA-O3A-PB-O1B
156	7b	4702	ATP	PG-O3B-PB-O1B
156	7e	4703	ATP	PA-O3A-PB-O2B
156	7f	4703	ATP	PA-O3A-PB-O2B
156	7f	4704	ATP	PA-O3A-PB-O1B
156	8e	4704	ATP	PG-O3B-PB-O1B
156	8f	4702	ATP	PG-O3B-PB-O1B
156	8f	4704	ATP	PG-O3B-PB-O1B
156	9e	5001	ATP	PG-O3B-PB-O1B
156	9e	5004	ATP	PA-O3A-PB-O2B
156	9f	4701	ATP	PG-O3B-PB-O2B
156	9f	4701	ATP	PB-O3A-PA-O1A
156	9f	4703	ATP	PG-O3B-PB-O2B
160	Ad	602	GTP	PG-O3B-PB-O2B
160	CL	501	GTP	PG-O3B-PB-O2B
160	CT	602	GTP	PG-O3B-PB-O2B
160	CV	501	GTP	PG-O3B-PB-O2B
160	CX	602	GTP	PG-O3B-PB-O2B
160	DO	501	GTP	PG-O3B-PB-O2B
160	DS	602	GTP	PG-O3B-PB-O2B
160	DW	602	GTP	PG-O3B-PB-O2B
160	EC	501	GTP	PG-O3B-PB-O2B
160	ES	501	GTP	PG-O3B-PB-O2B
160	HC	602	GTP	PG-O3B-PB-O2B
160	II	501	GTP	PG-O3B-PB-O1B
160	IU	501	GTP	PG-O3B-PB-O2B

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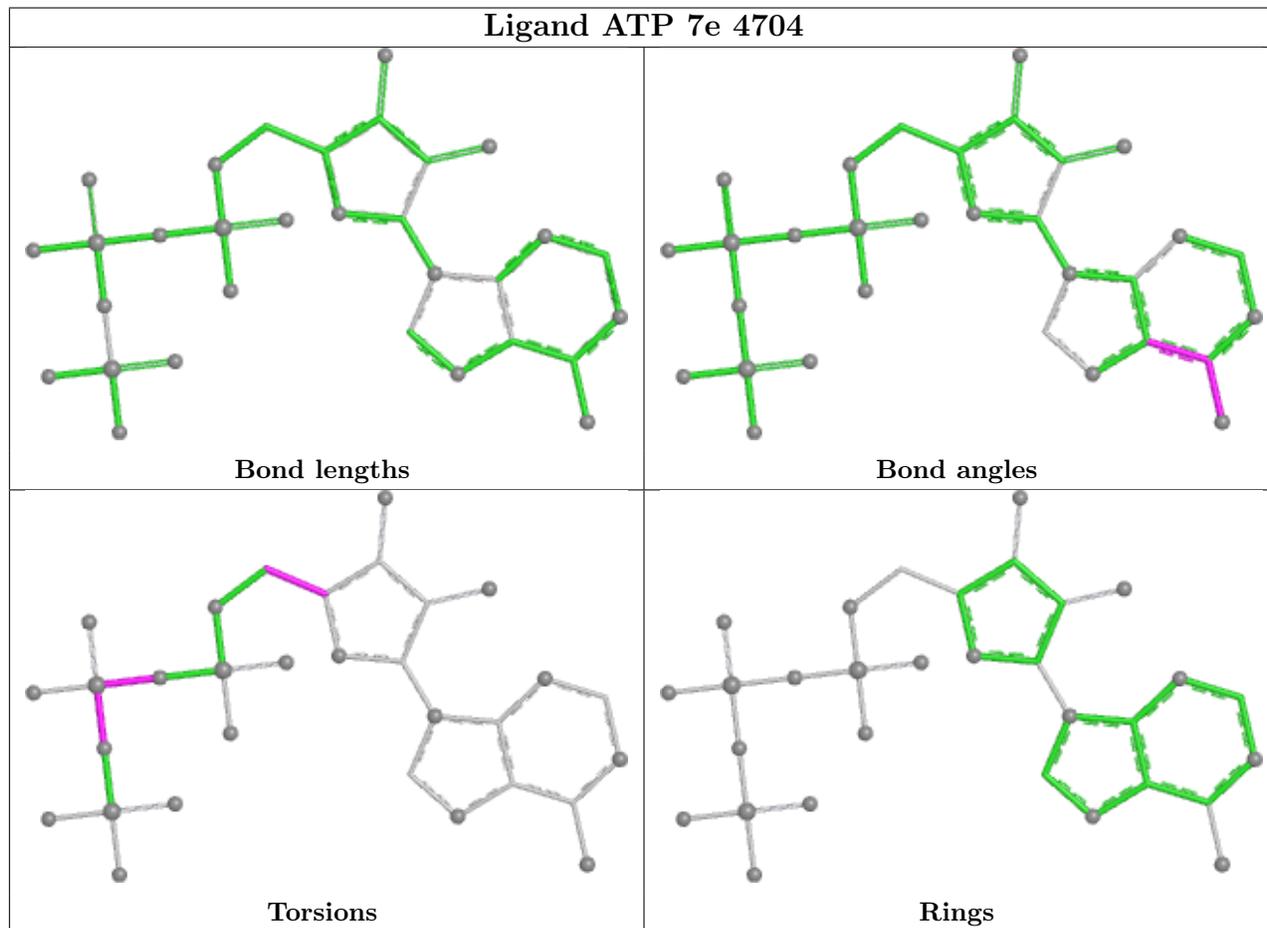
Mol	Chain	Res	Type	Atoms
160	JH	602	GTP	PG-O3B-PB-O2B
160	JL	501	GTP	PG-O3B-PB-O2B
160	JP	602	GTP	PG-O3B-PB-O2B
160	JR	602	GTP	PG-O3B-PB-O2B
160	JX	501	GTP	PG-O3B-PB-O2B
160	SA	501	GTP	PG-O3B-PB-O2B
160	SQ	602	GTP	PG-O3B-PB-O2B
160	TC	501	GTP	PG-O3B-PB-O2B
160	TO	501	GTP	PG-O3B-PB-O2B
160	TX	602	GTP	PA-O3A-PB-O2B
160	WA	602	GTP	PG-O3B-PB-O2B
160	WS	501	GTP	PG-O3B-PB-O2B
156	9f	4703	ATP	O4'-C4'-C5'-O5'
160	SS	602	GTP	O4'-C4'-C5'-O5'
158	HN	501	GDP	C4'-C5'-O5'-PA
157	8f	4701	ADP	C3'-C4'-C5'-O5'
156	9e	5001	ATP	PA-O3A-PB-O3B
156	8e	4704	ATP	C4'-C5'-O5'-PA
156	7b	4701	ATP	PG-O3B-PB-O2B
156	7b	4702	ATP	PG-O3B-PB-O2B
156	7b	4703	ATP	PB-O3A-PA-O2A
156	7e	4703	ATP	PG-O3B-PB-O1B
156	7e	4704	ATP	PG-O3B-PB-O1B
156	7f	4703	ATP	PB-O3A-PA-O2A
156	7f	4704	ATP	PG-O3B-PB-O2B
156	8e	4702	ATP	PG-O3B-PB-O1B
156	8e	4702	ATP	PA-O3A-PB-O2B
156	8f	4702	ATP	PG-O3B-PB-O2B
156	8f	4704	ATP	PB-O3A-PA-O2A
156	9e	5004	ATP	PG-O3B-PB-O1B
156	9f	4701	ATP	PG-O3B-PB-O1B
156	9f	4701	ATP	PB-O3A-PA-O2A
156	9f	4704	ATP	PA-O3A-PB-O1B
156	9f	4704	ATP	PA-O3A-PB-O2B
160	UJ	501	GTP	PG-O3B-PB-O2B
156	7b	4702	ATP	O4'-C4'-C5'-O5'
156	8e	4704	ATP	PA-O3A-PB-O3B

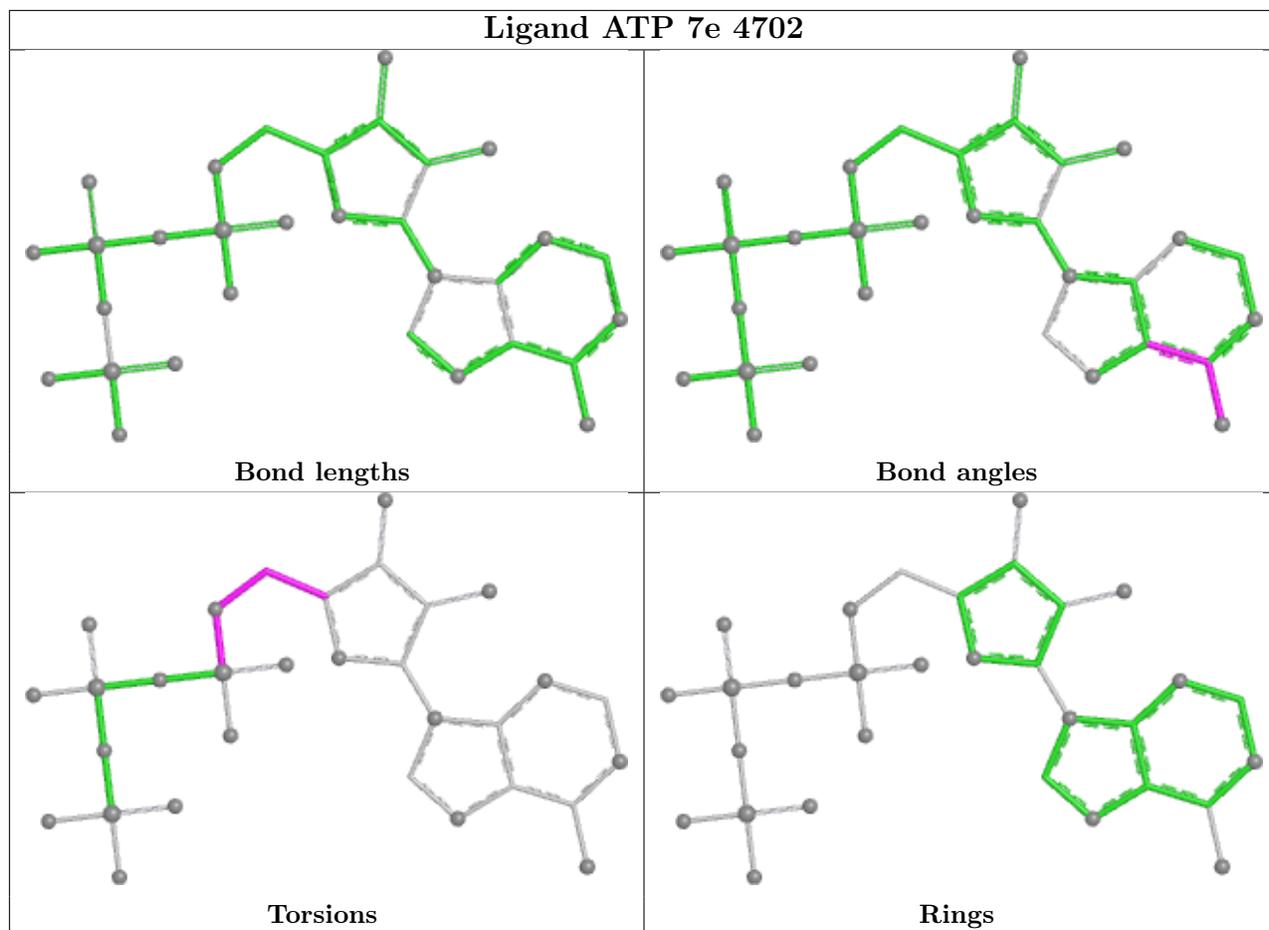
There are no ring outliers.

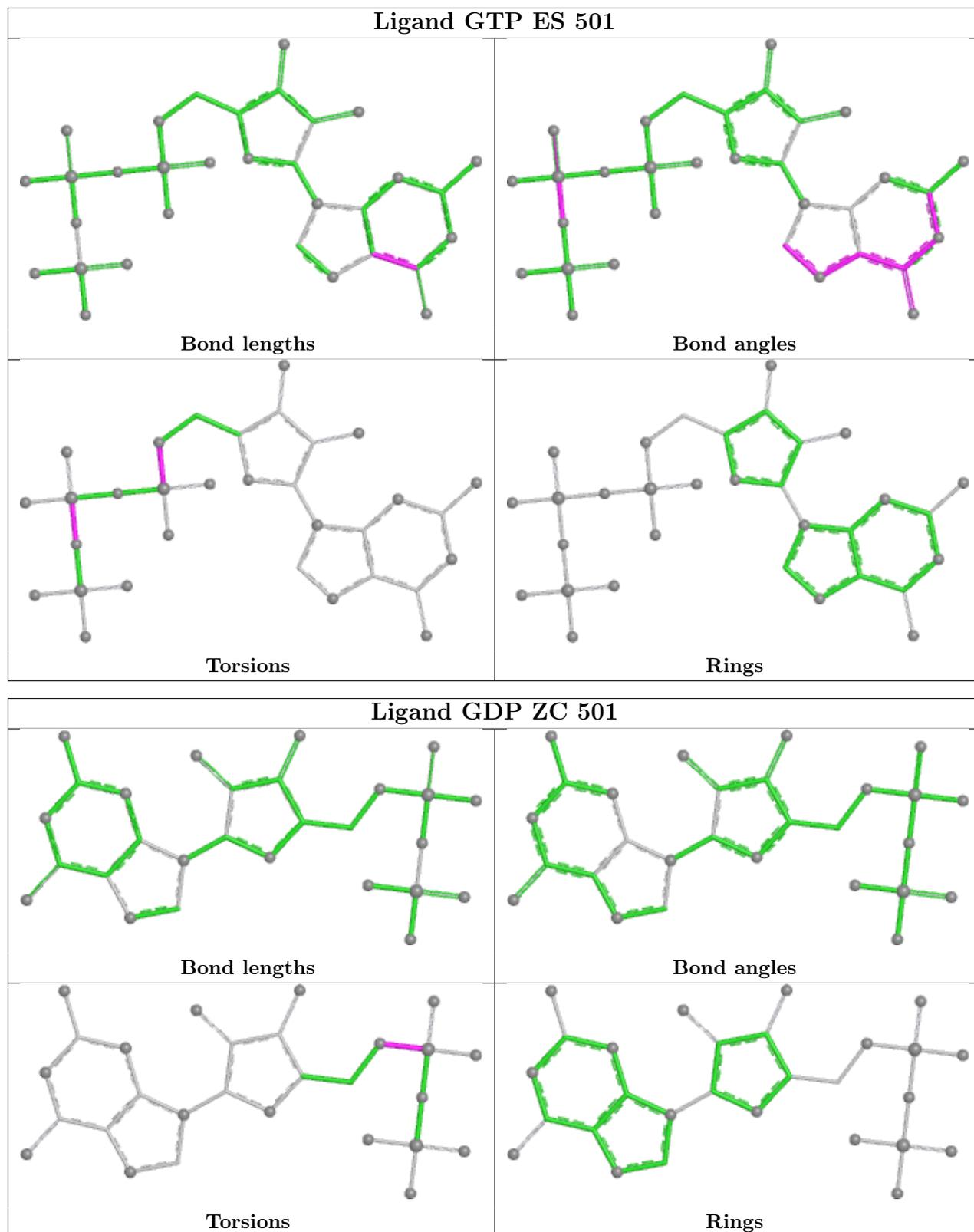
No monomer is involved in short contacts.

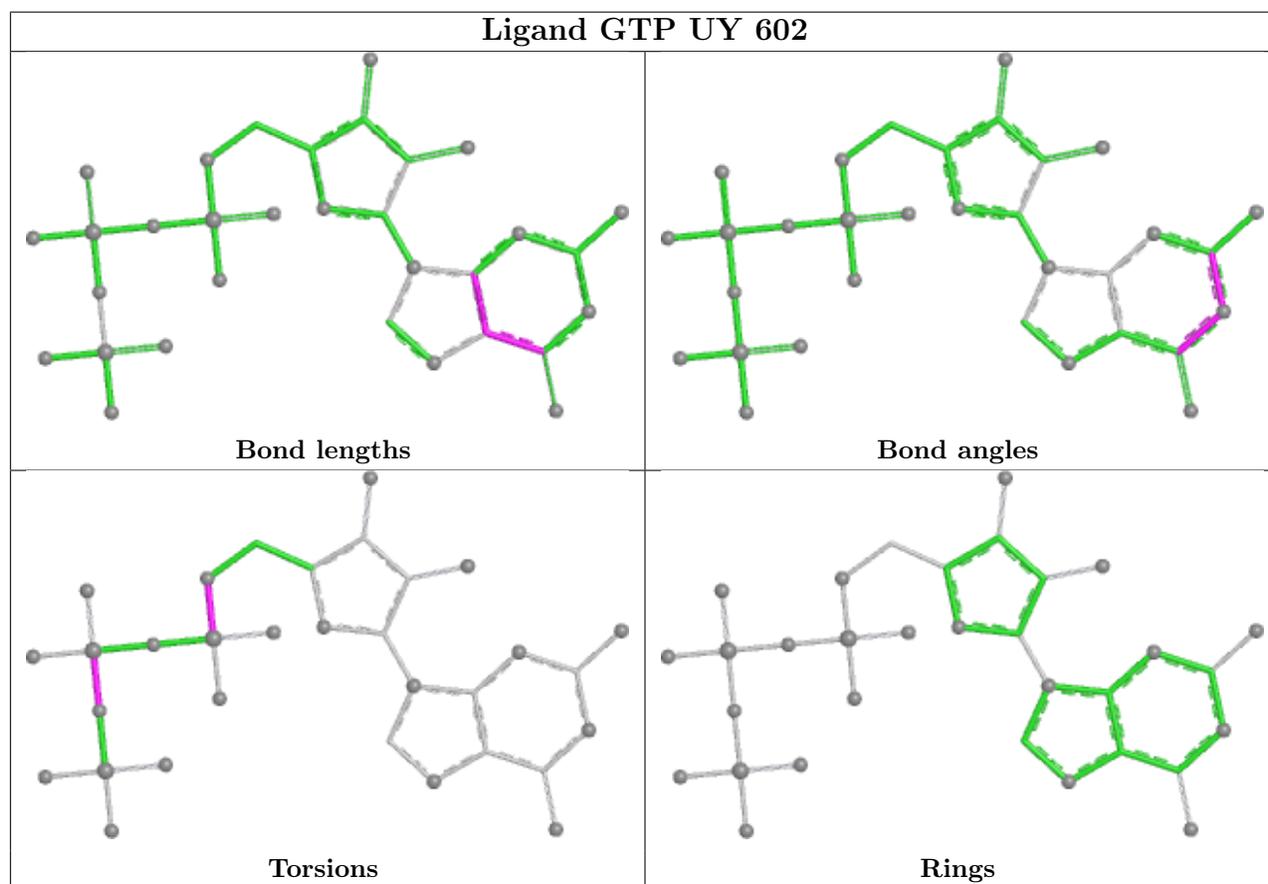
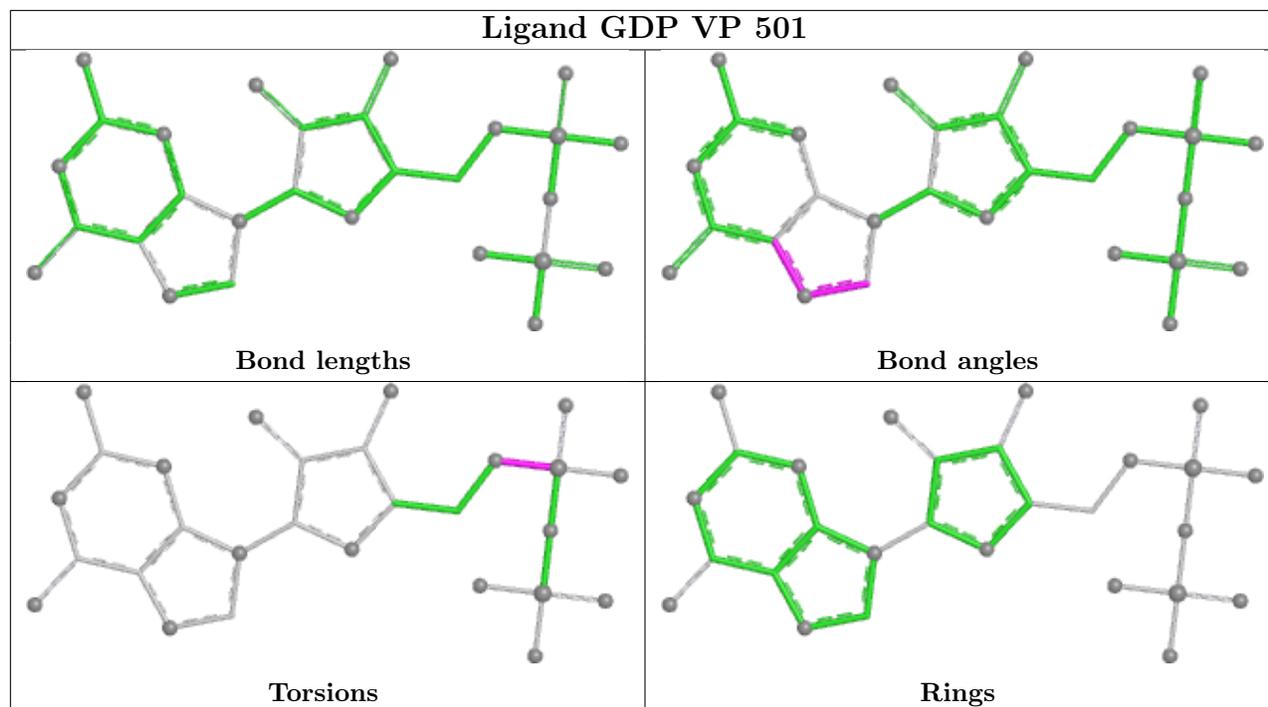
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

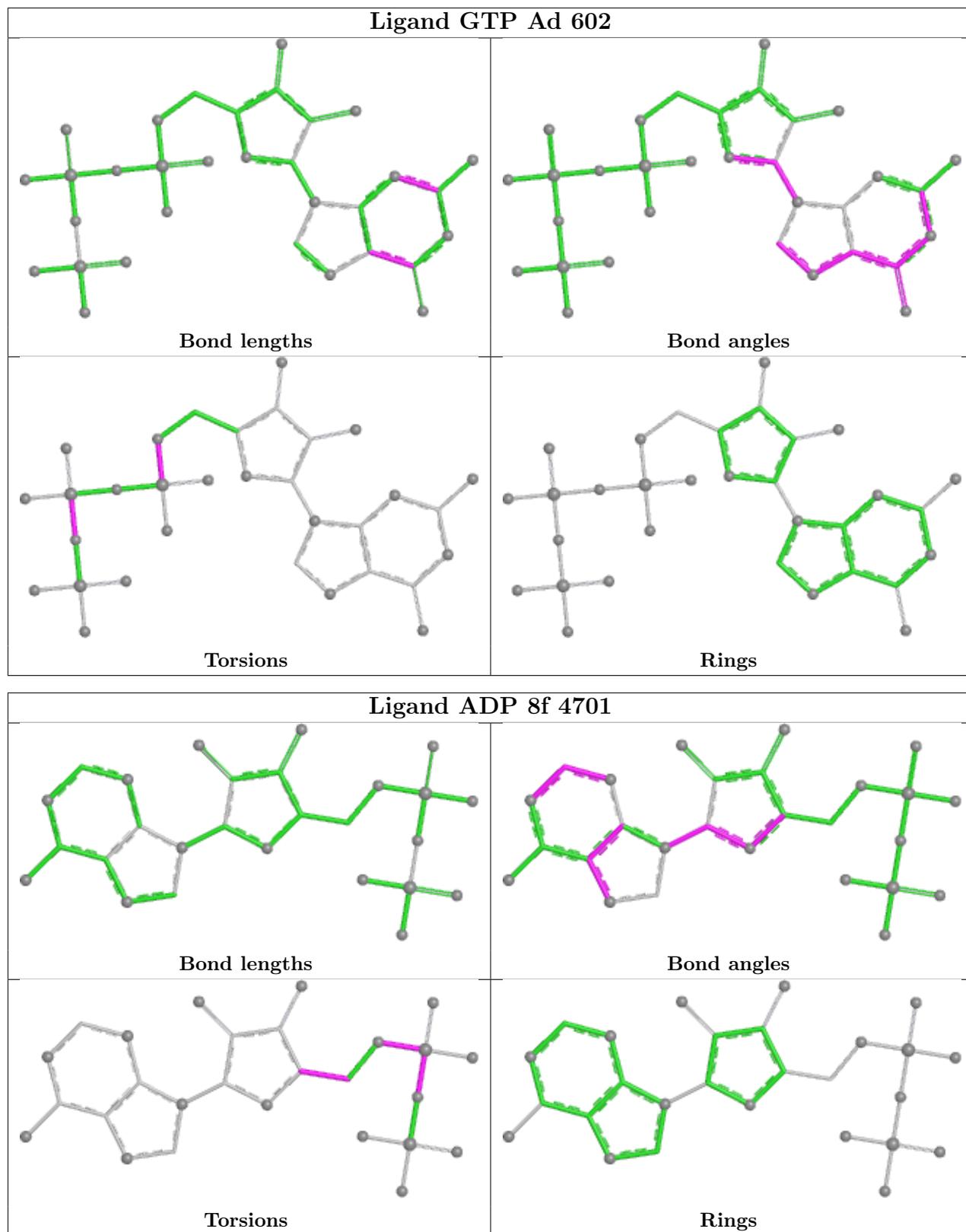
addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. 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.

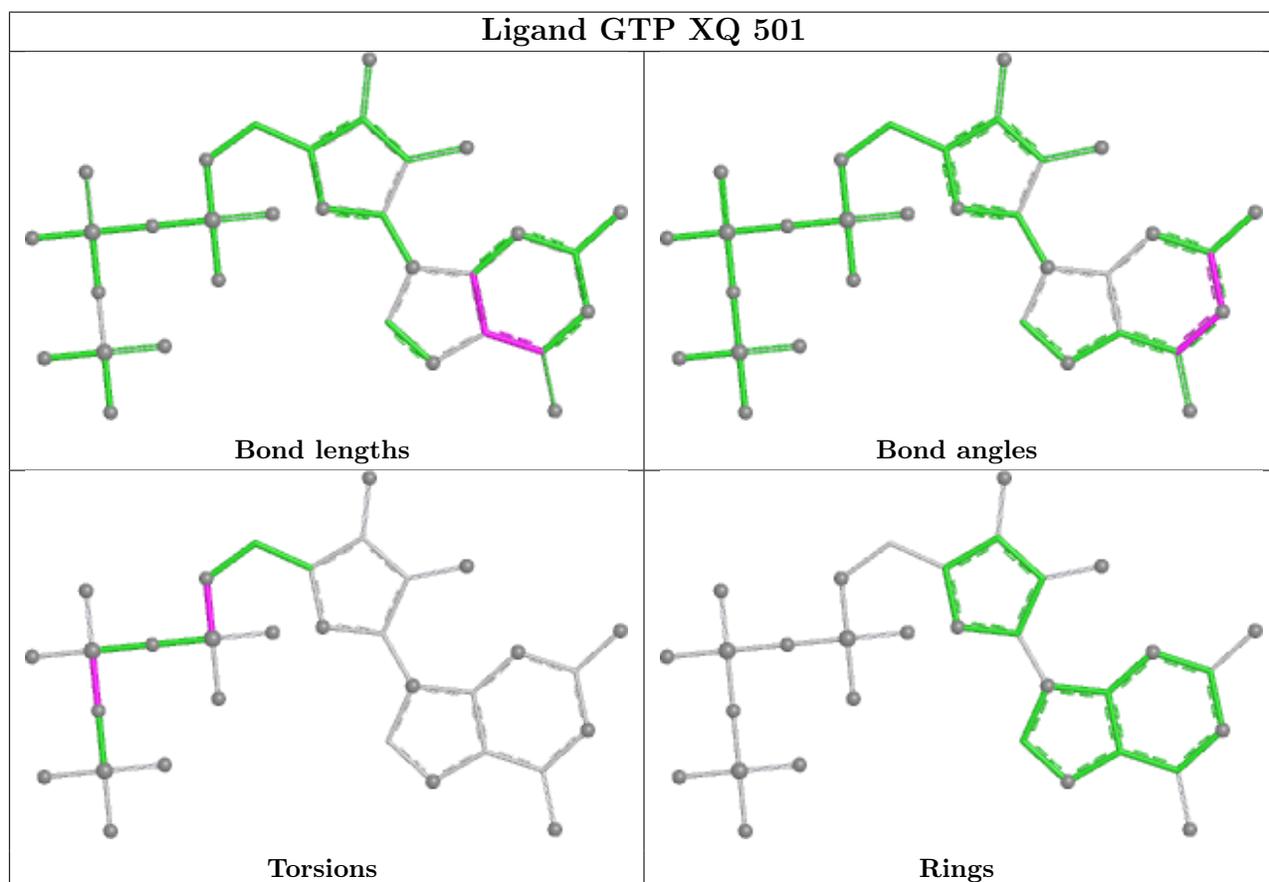
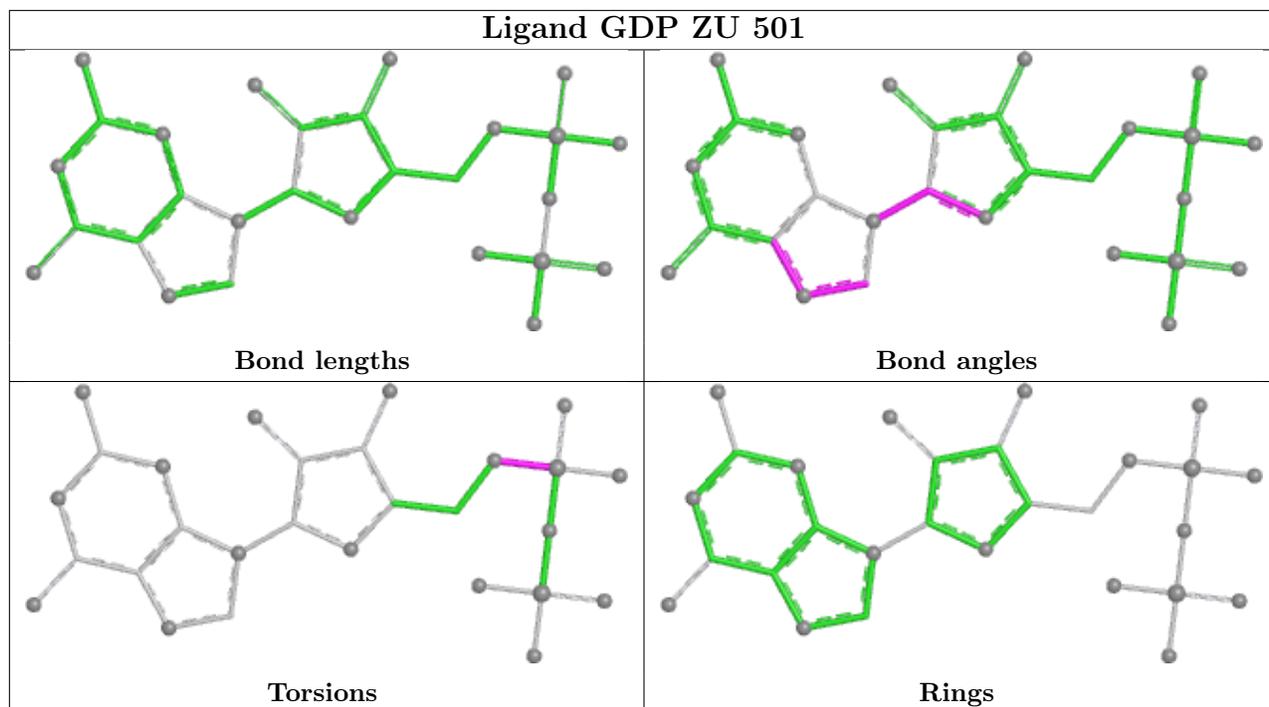


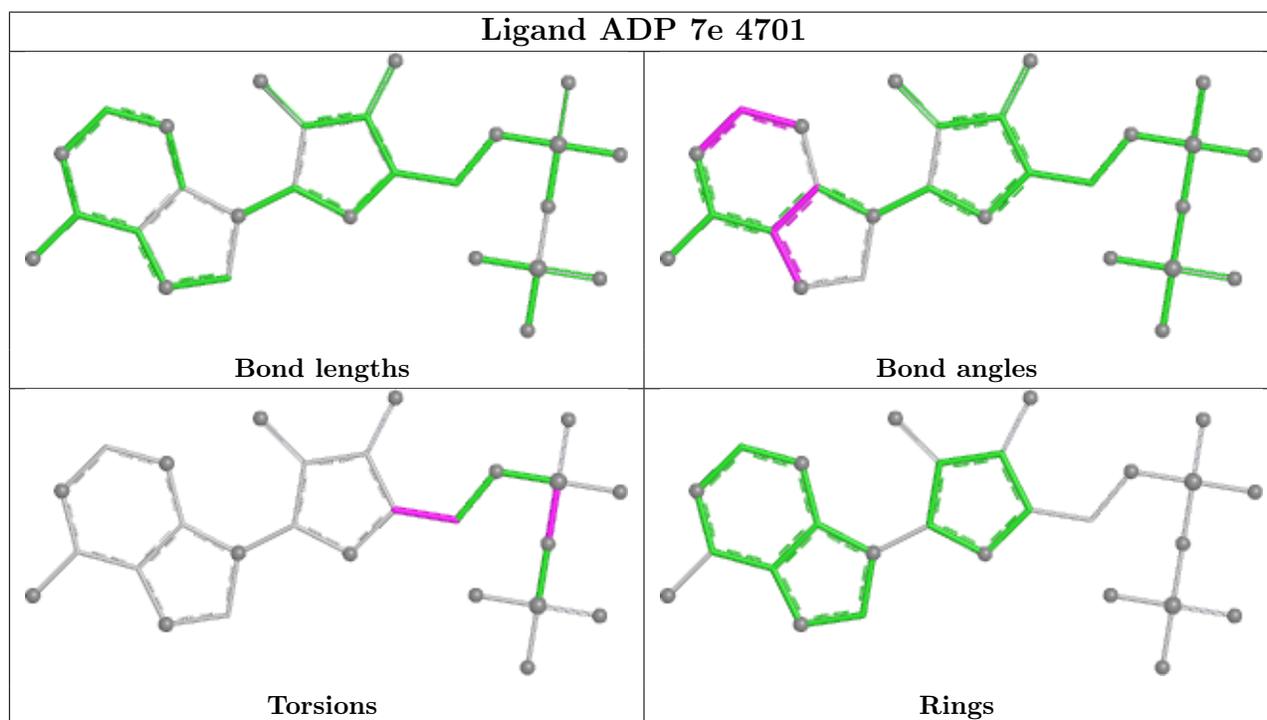
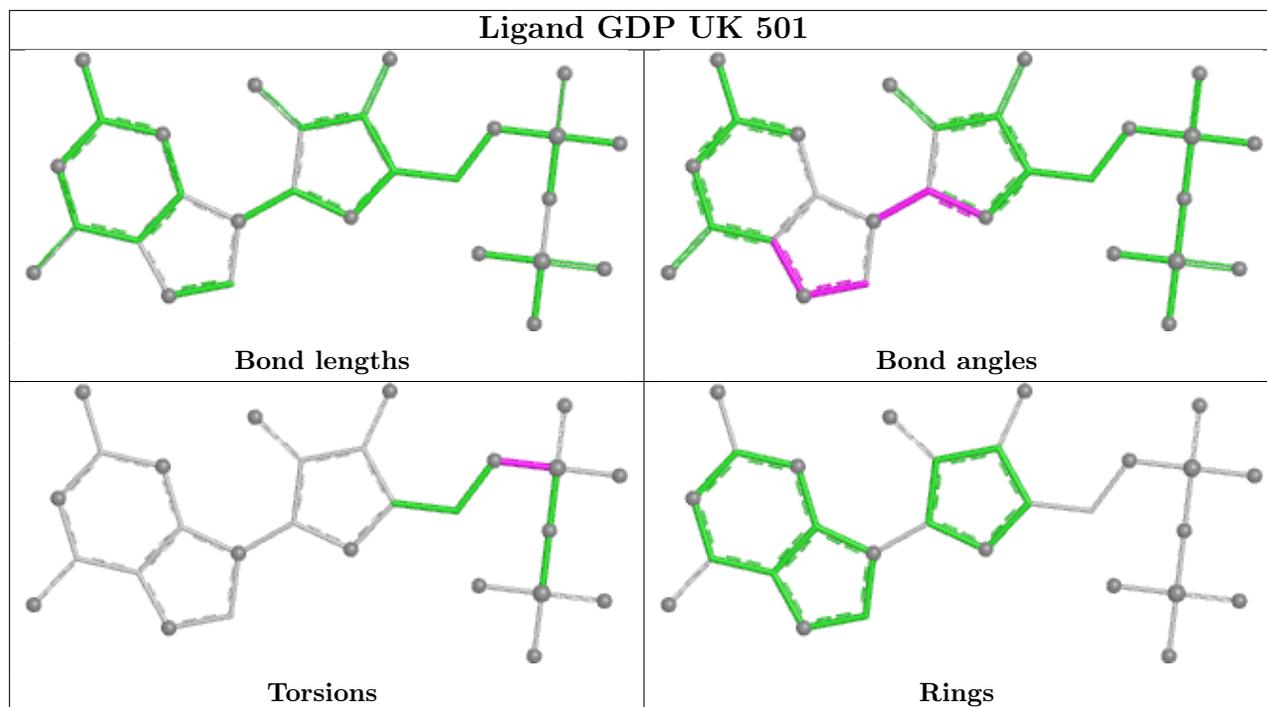


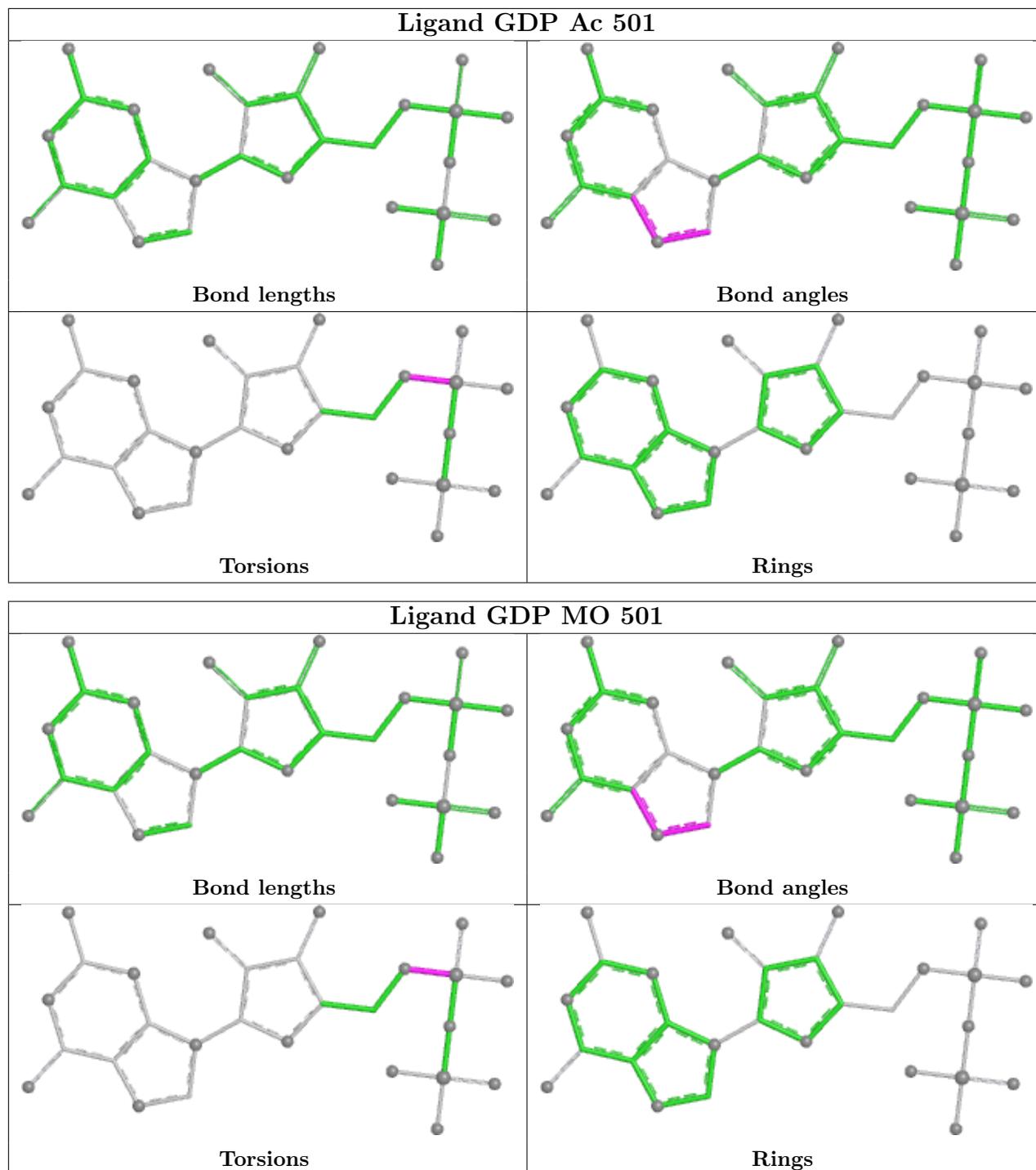


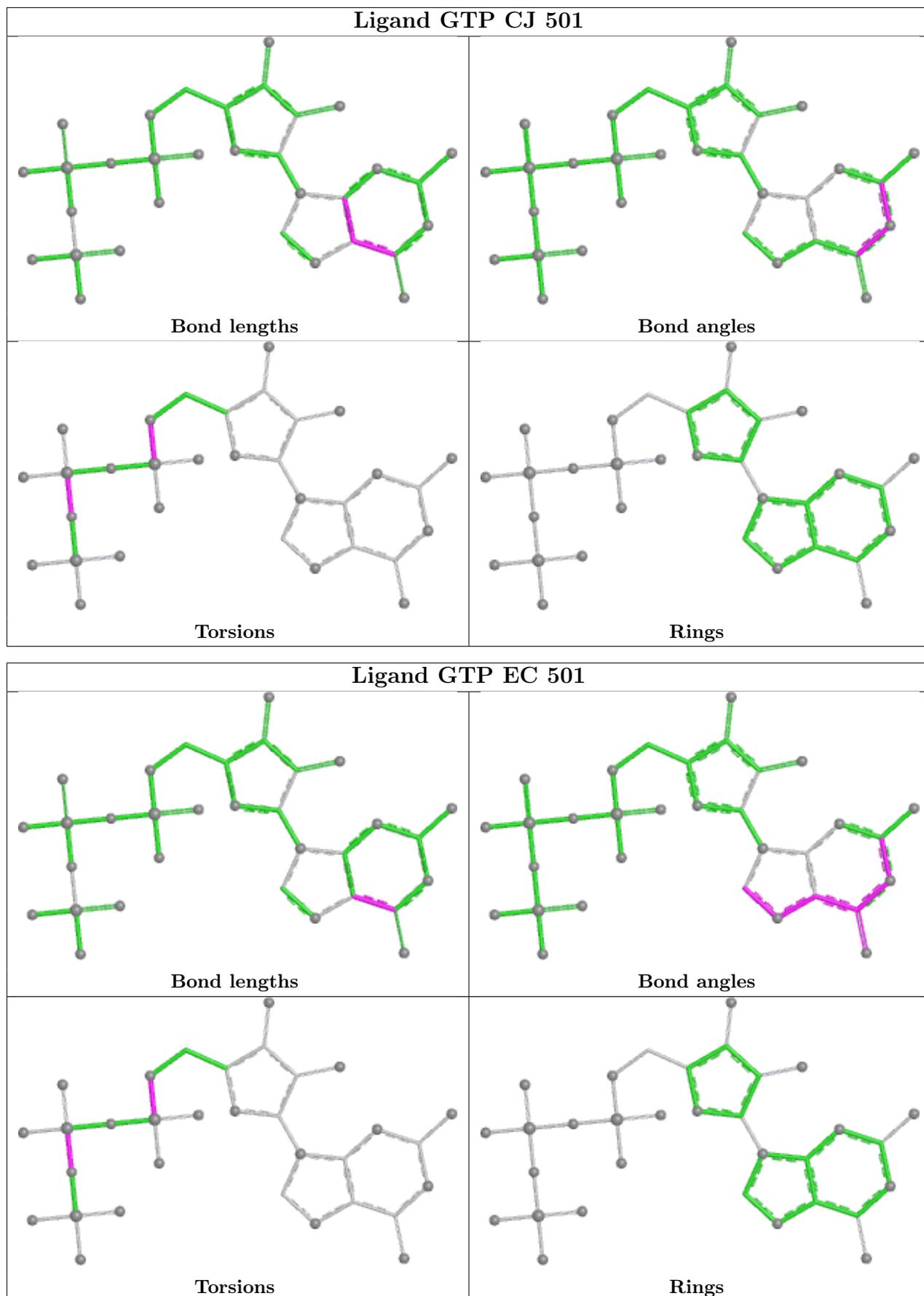


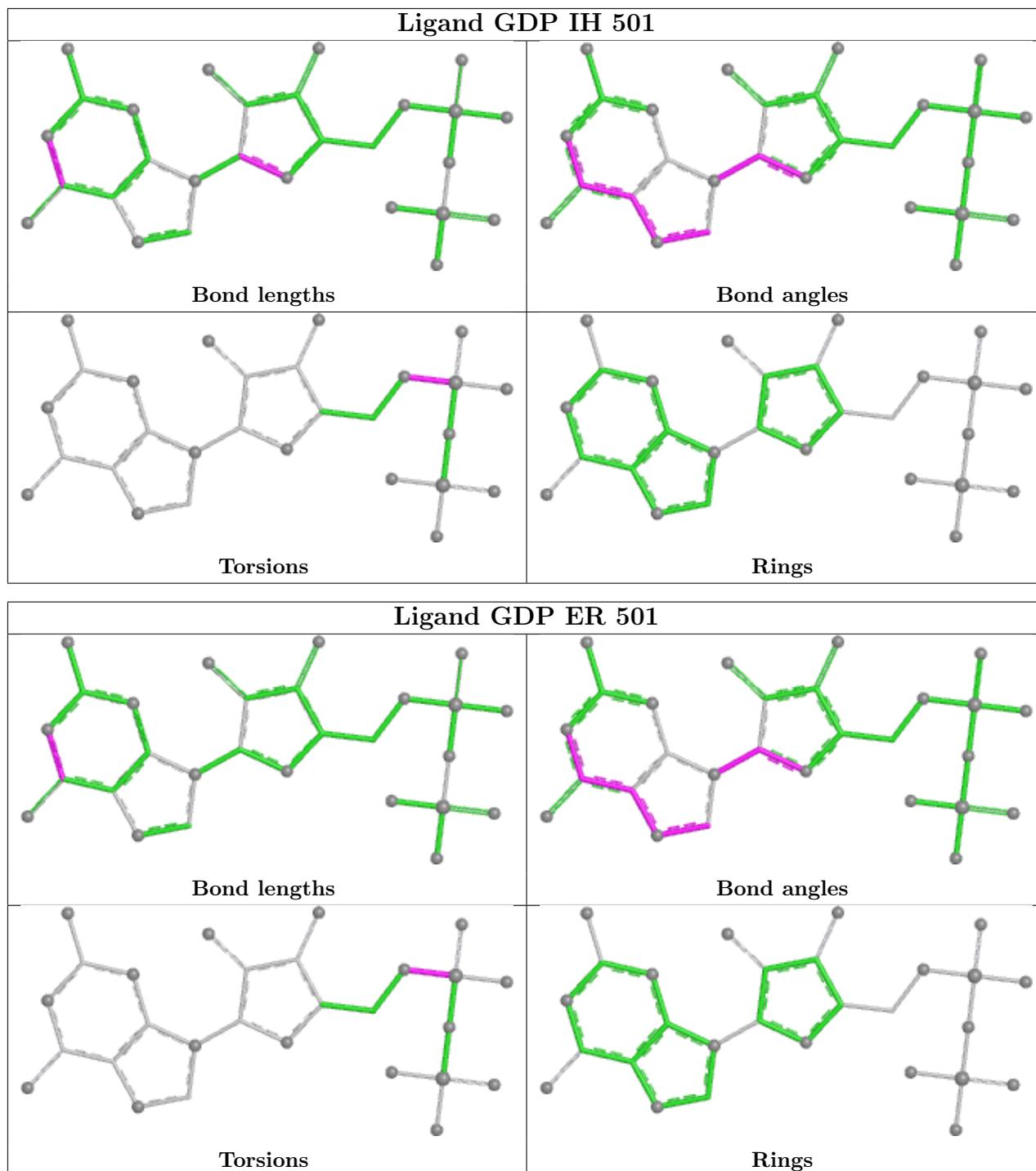


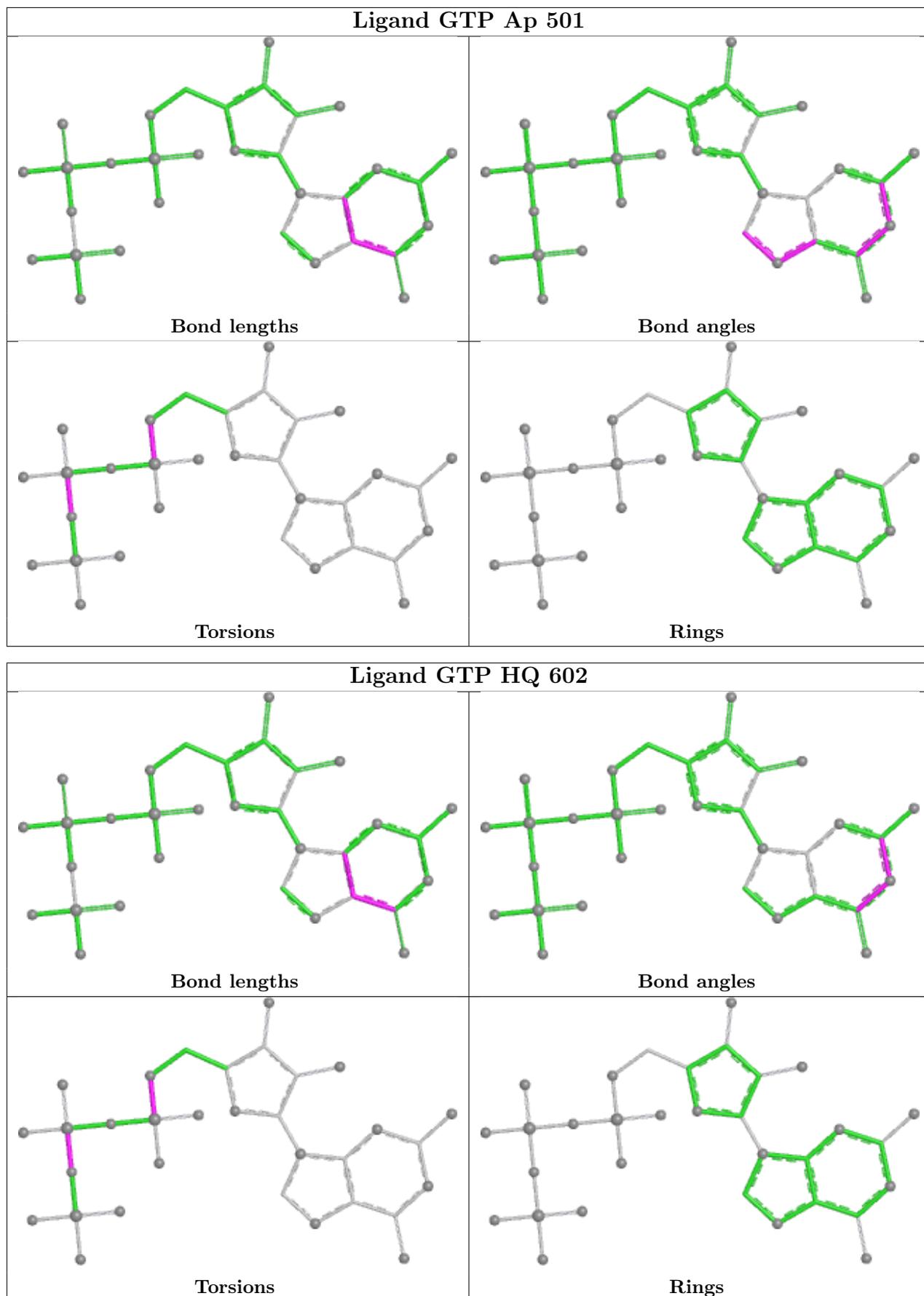


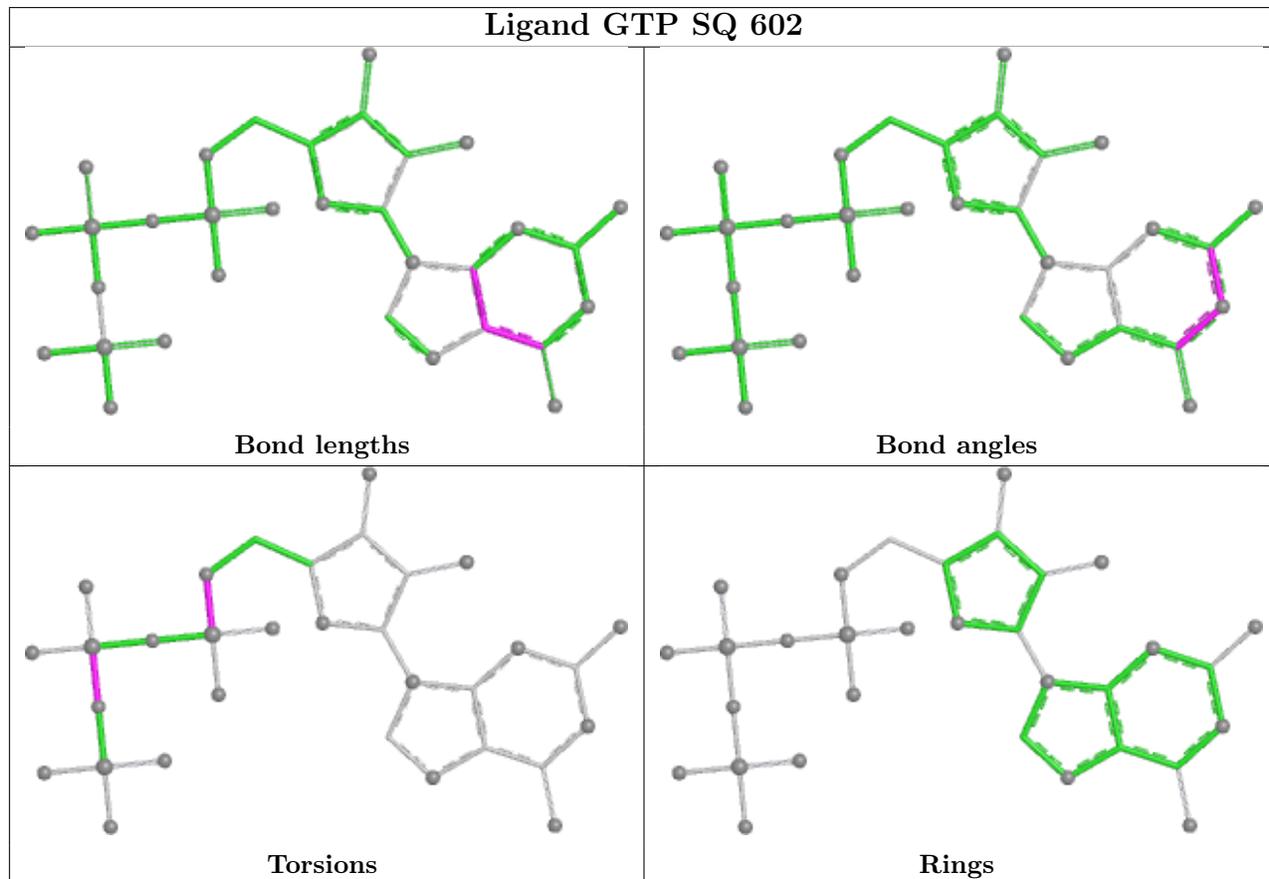
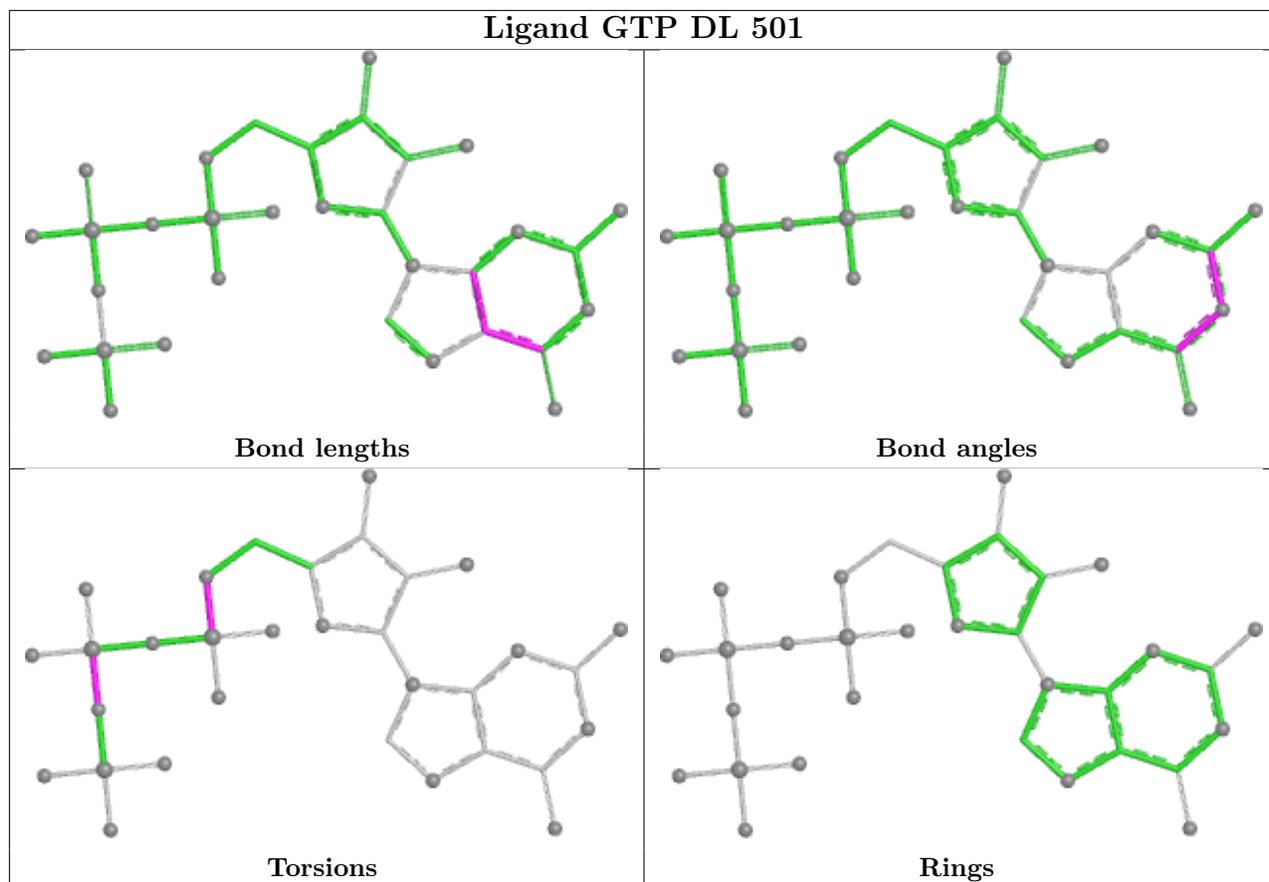


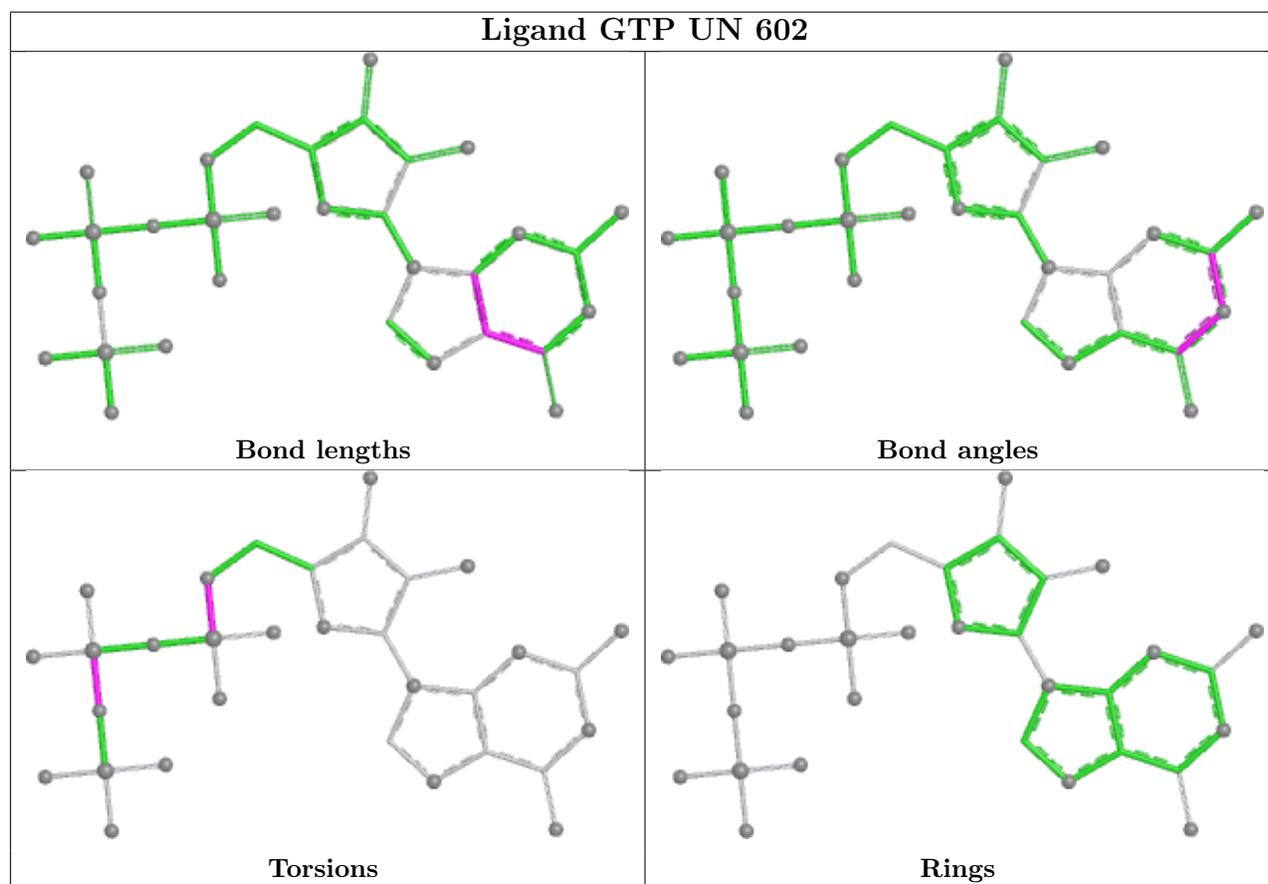
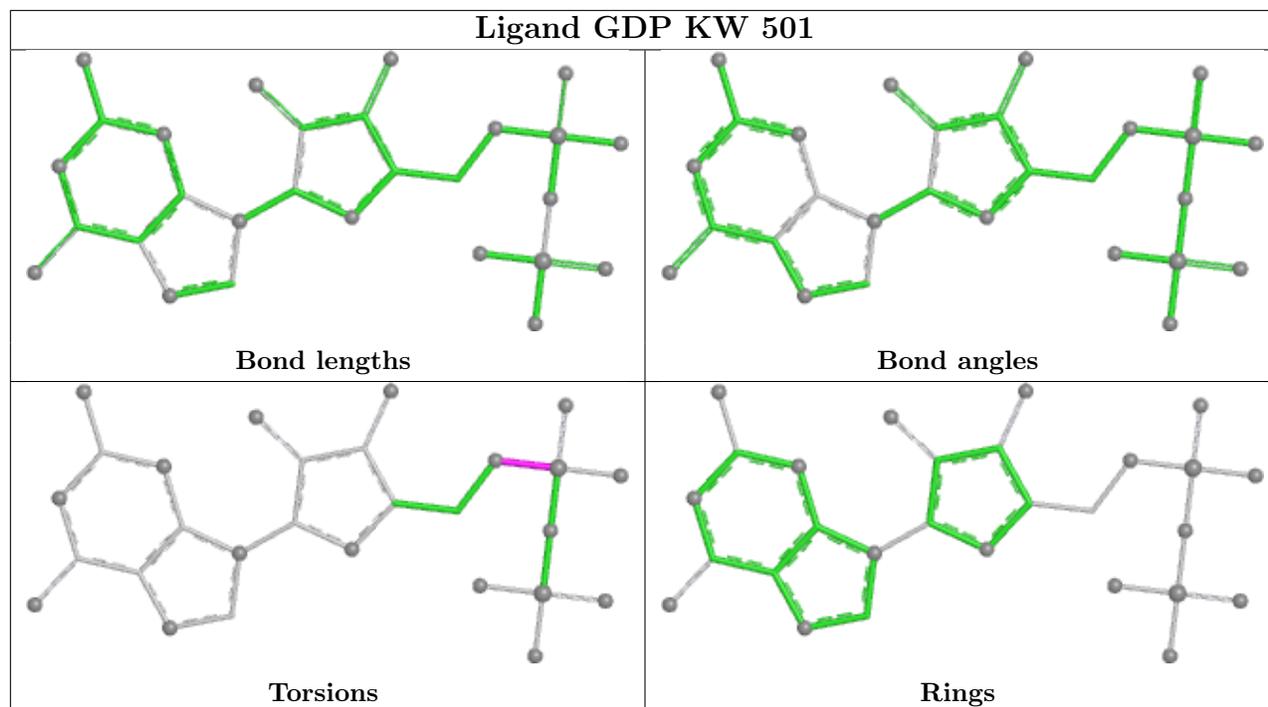


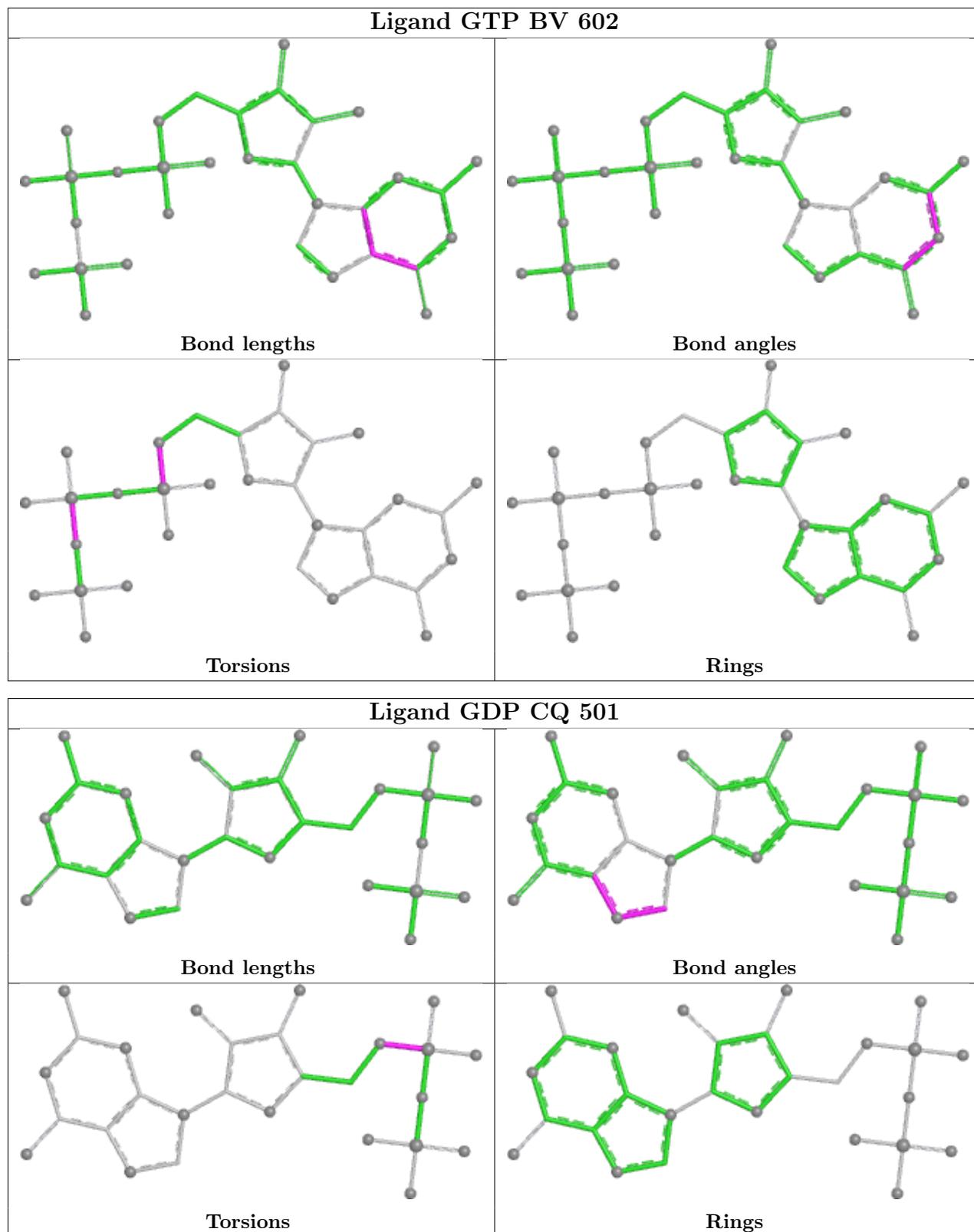


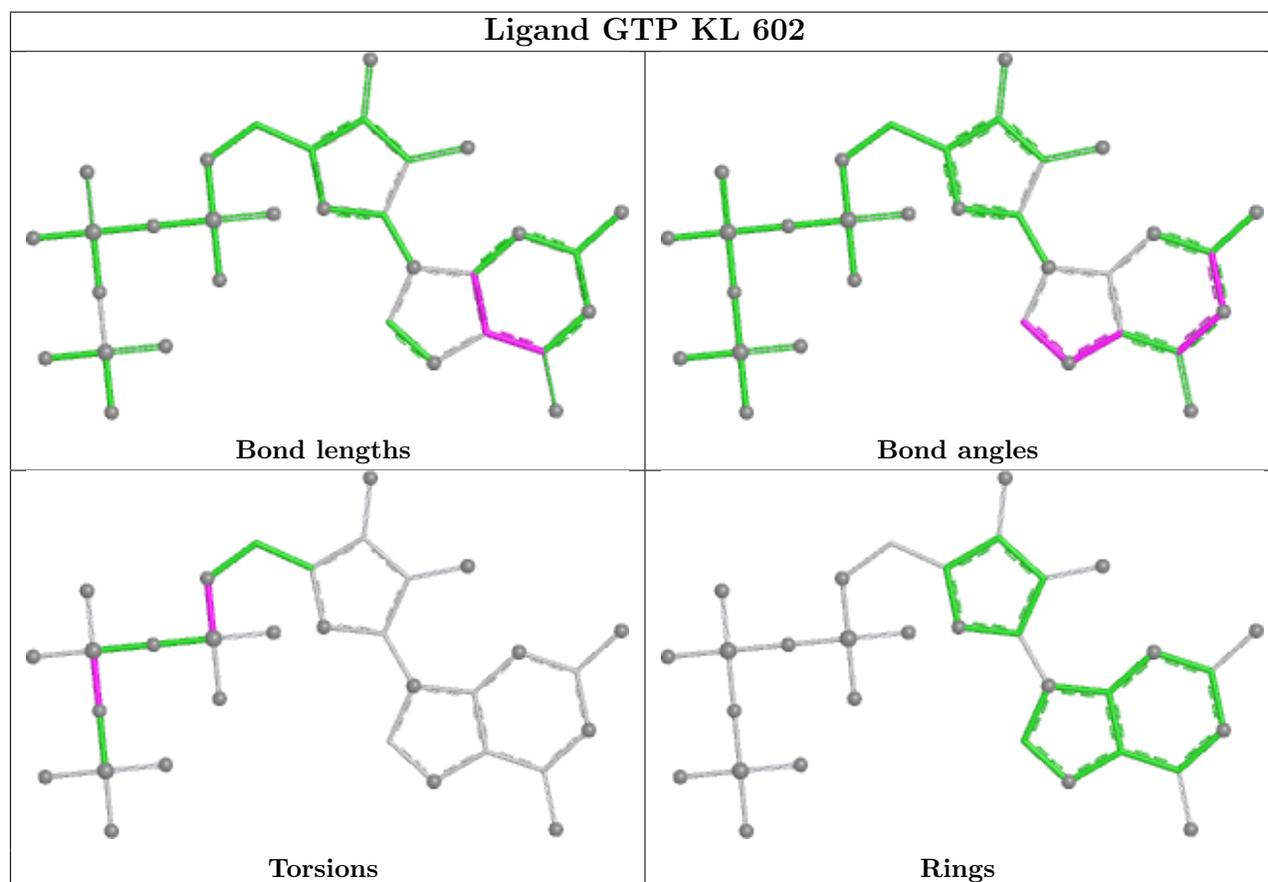
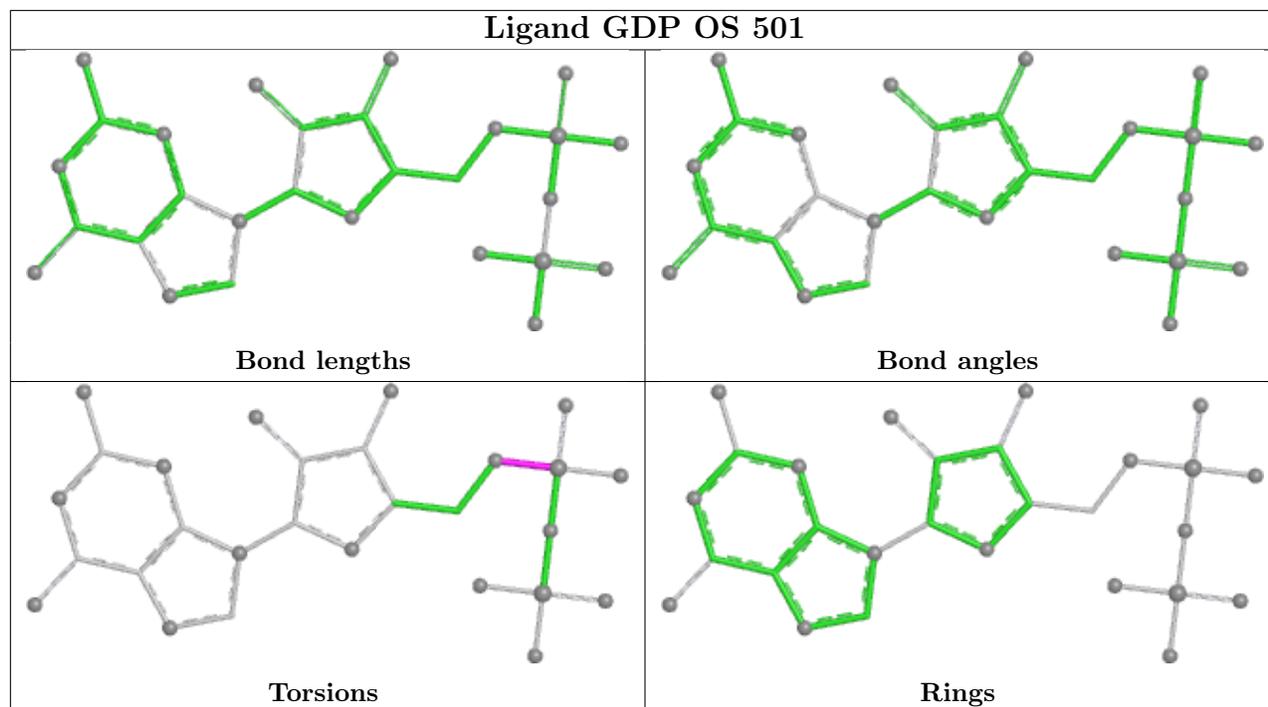


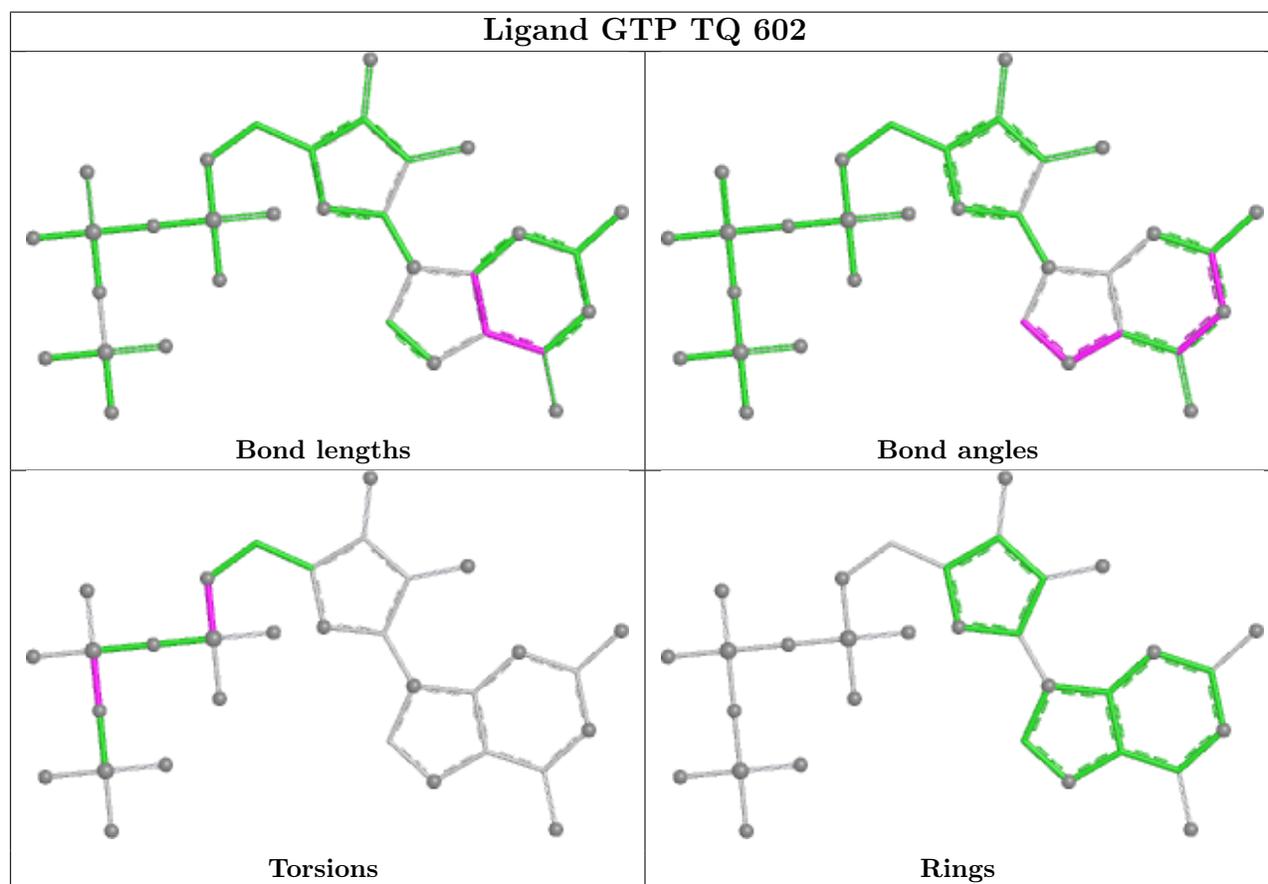
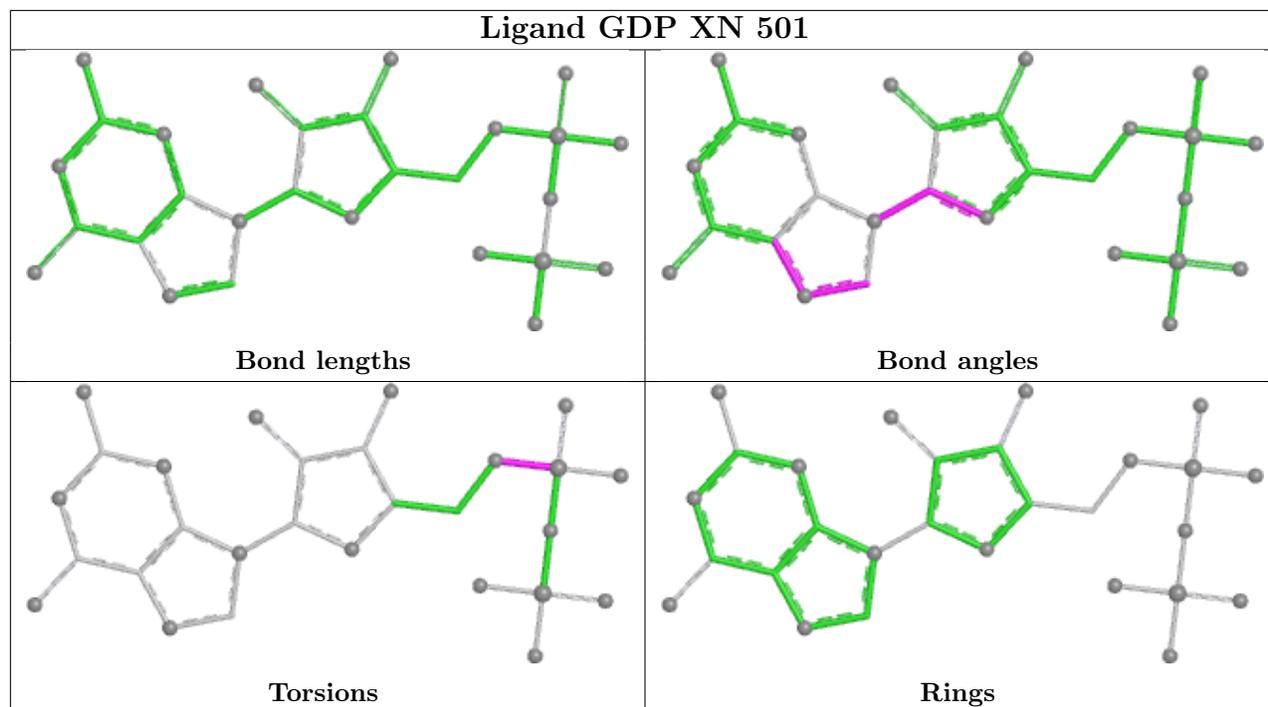


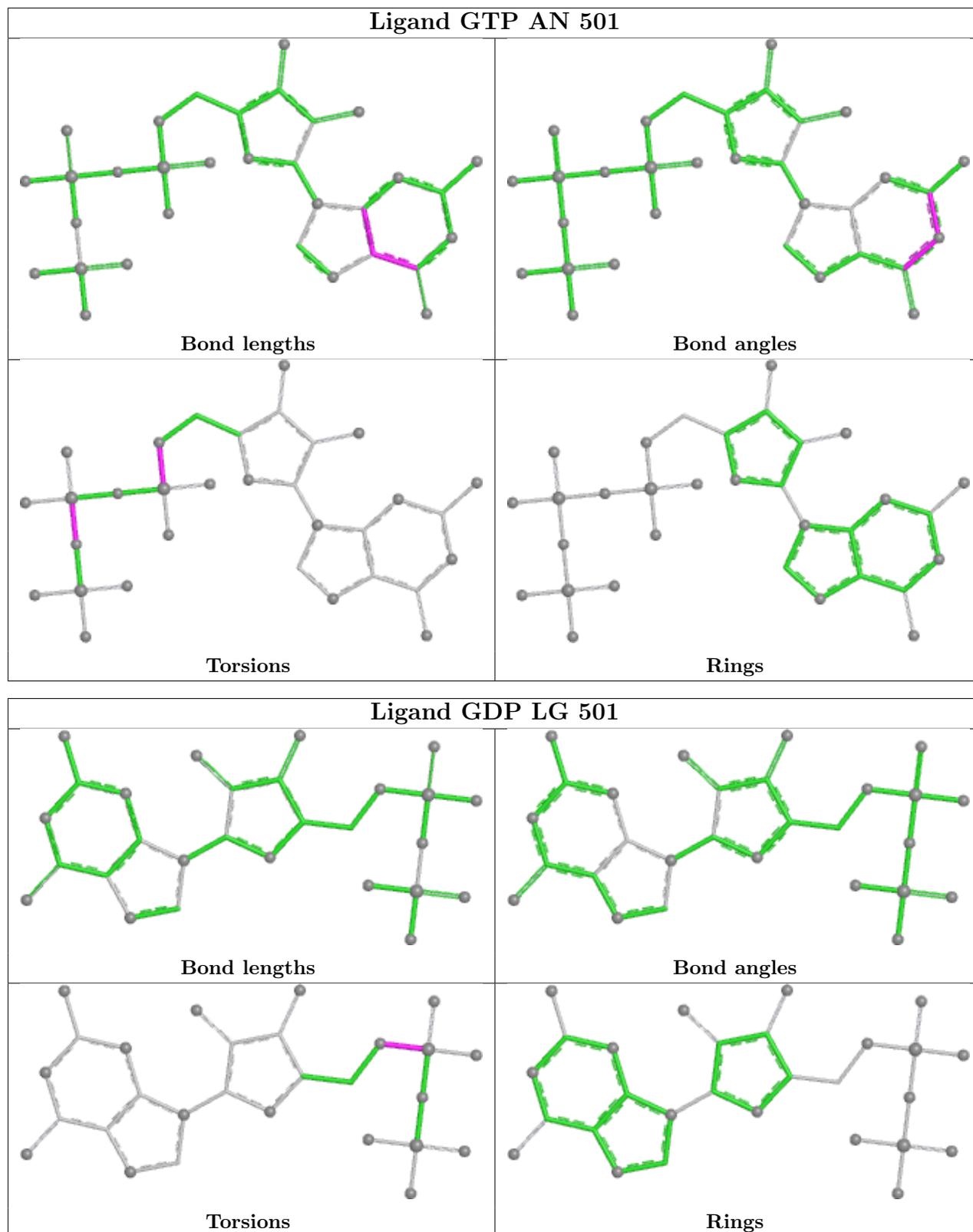


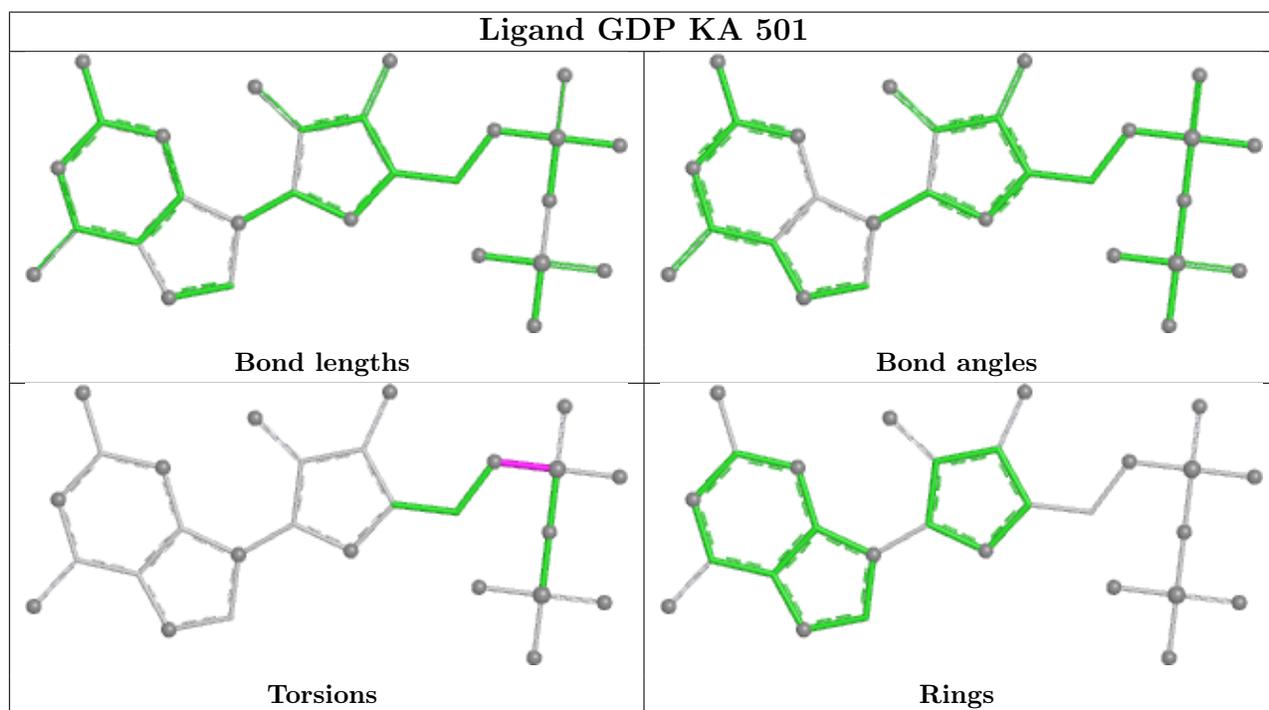
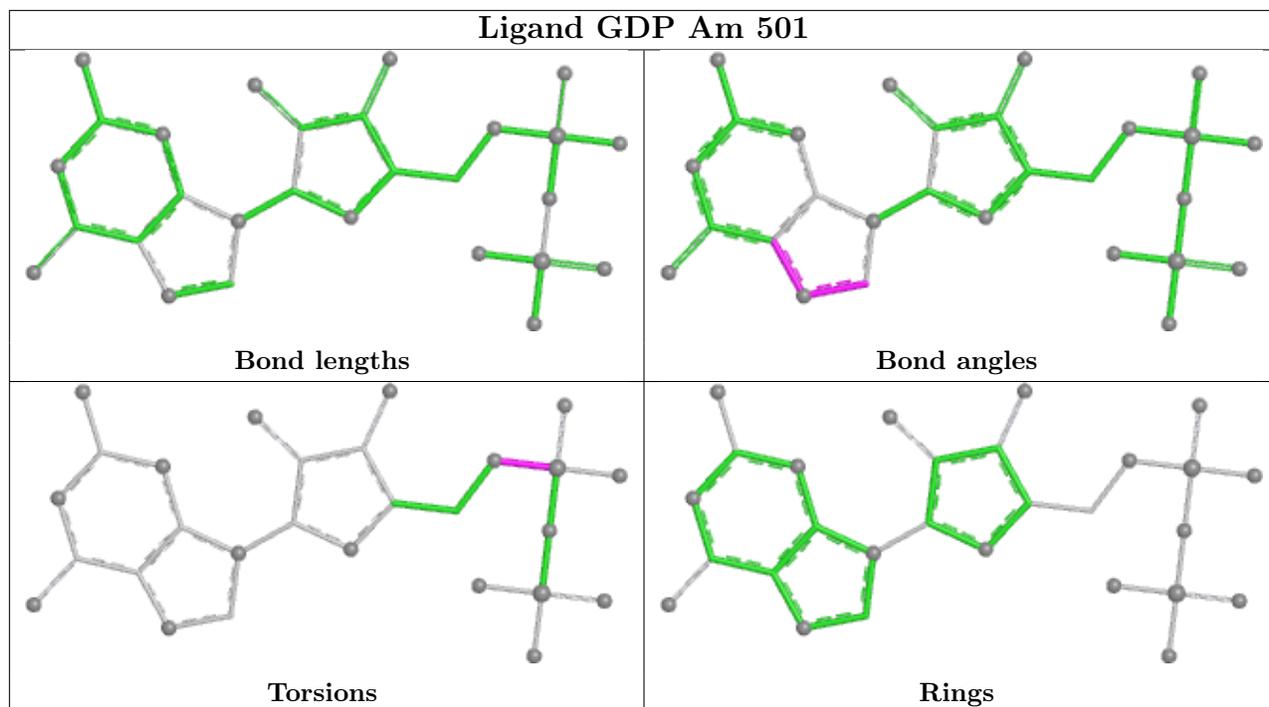


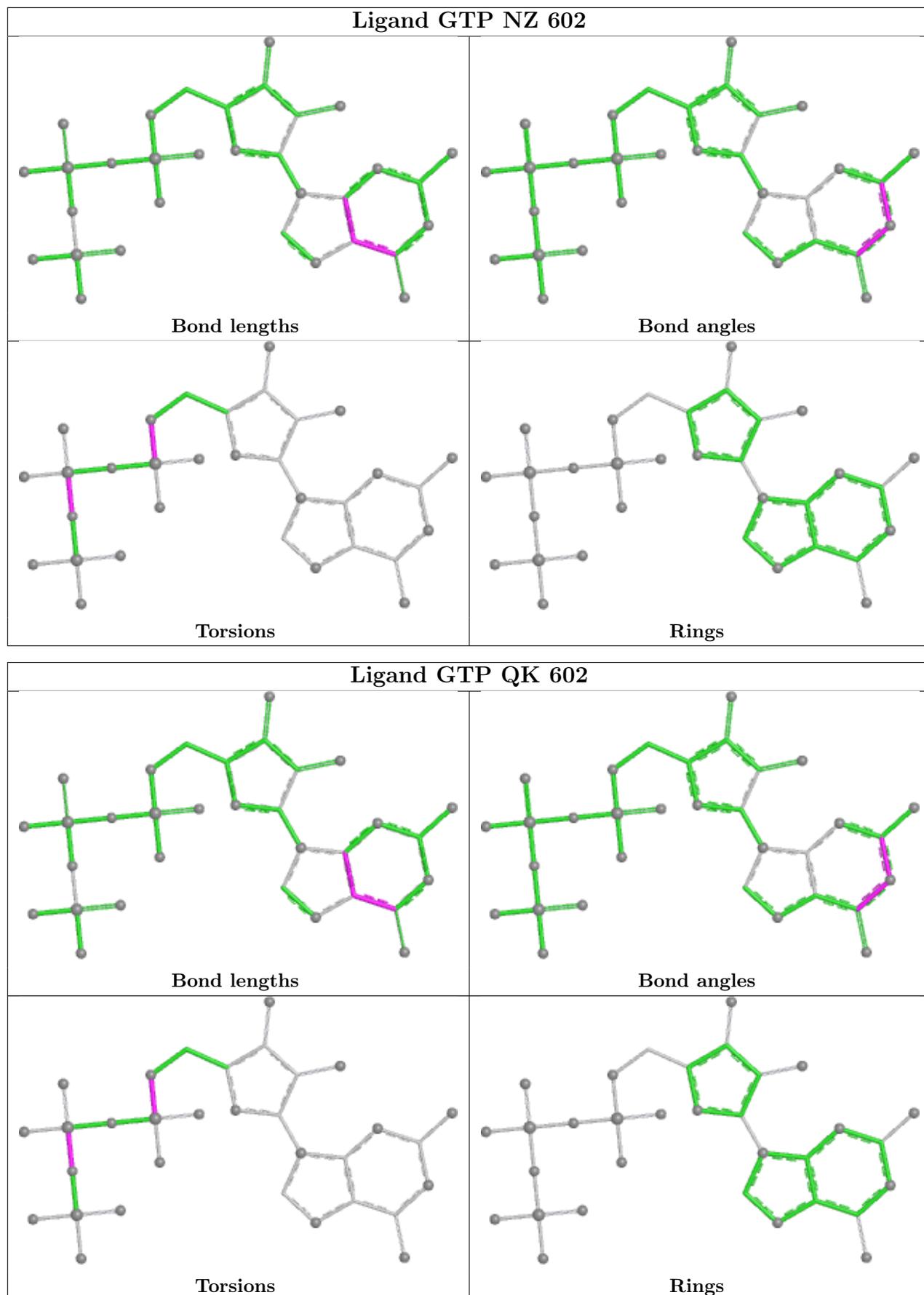


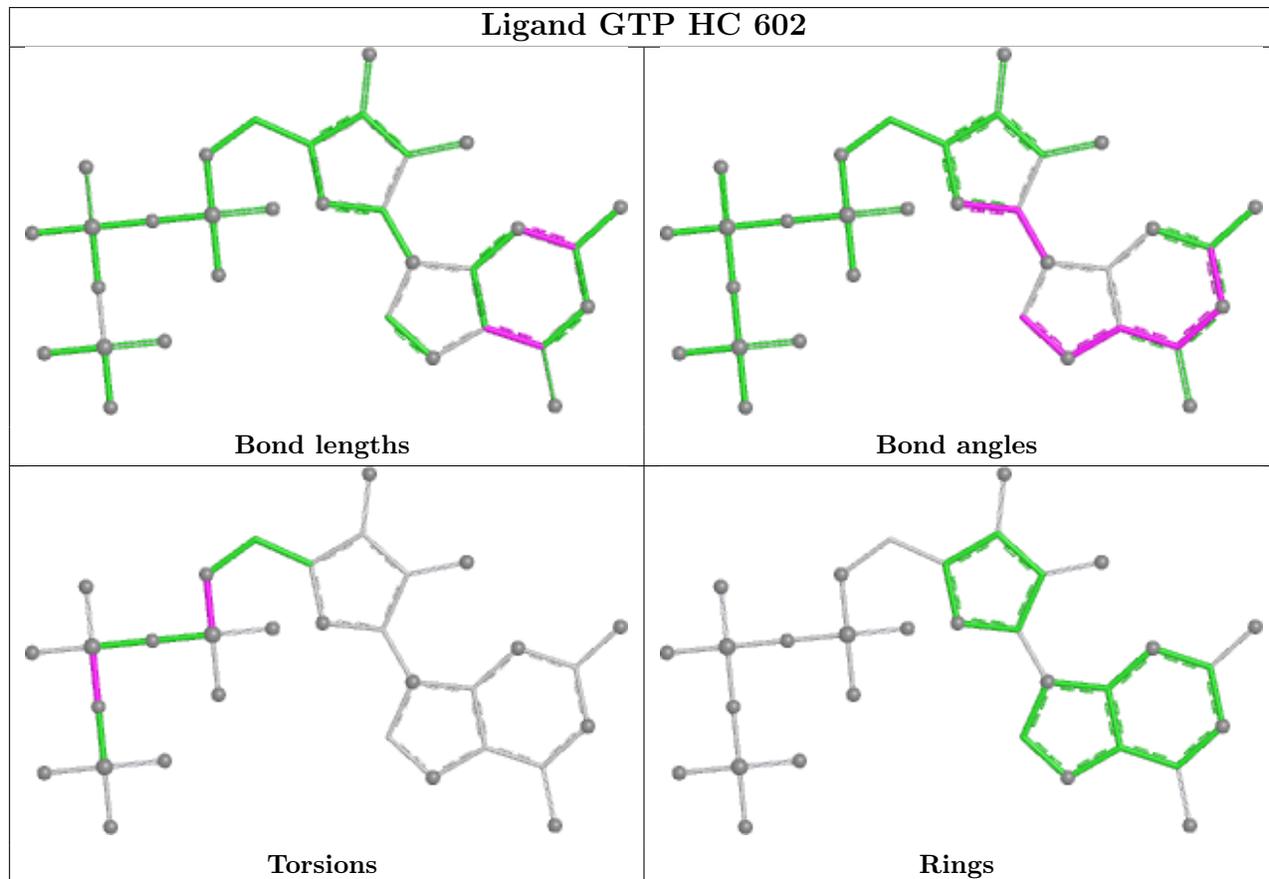
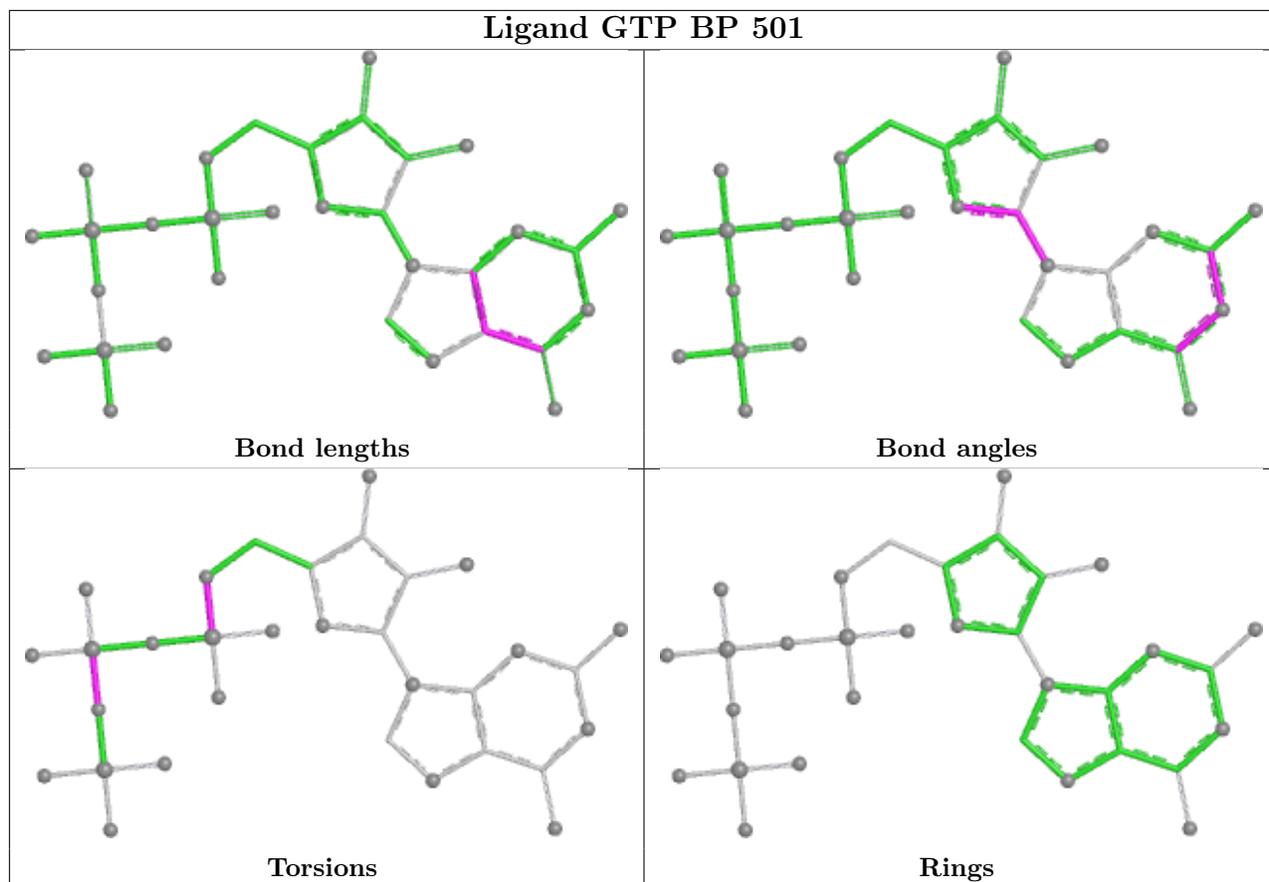


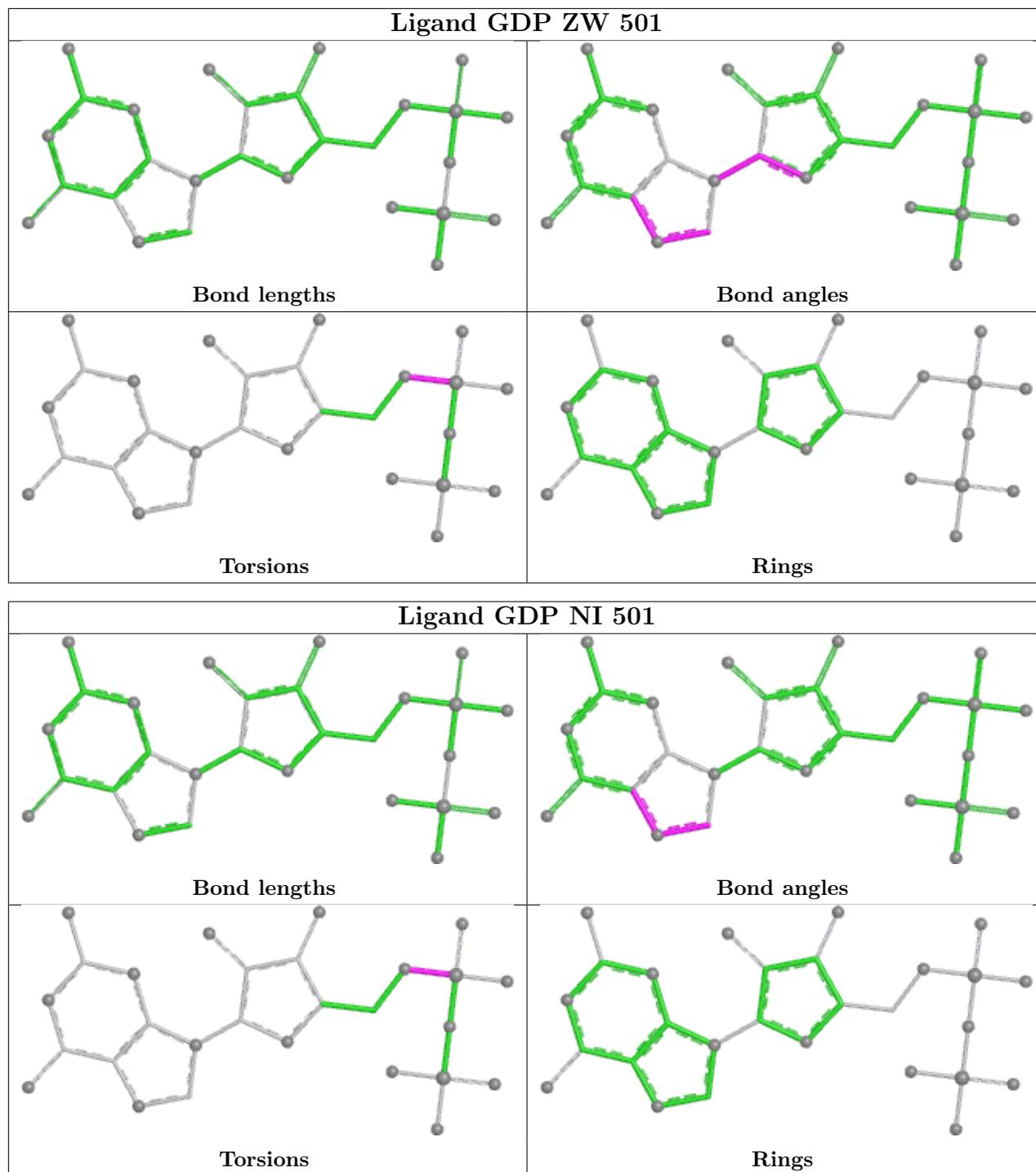


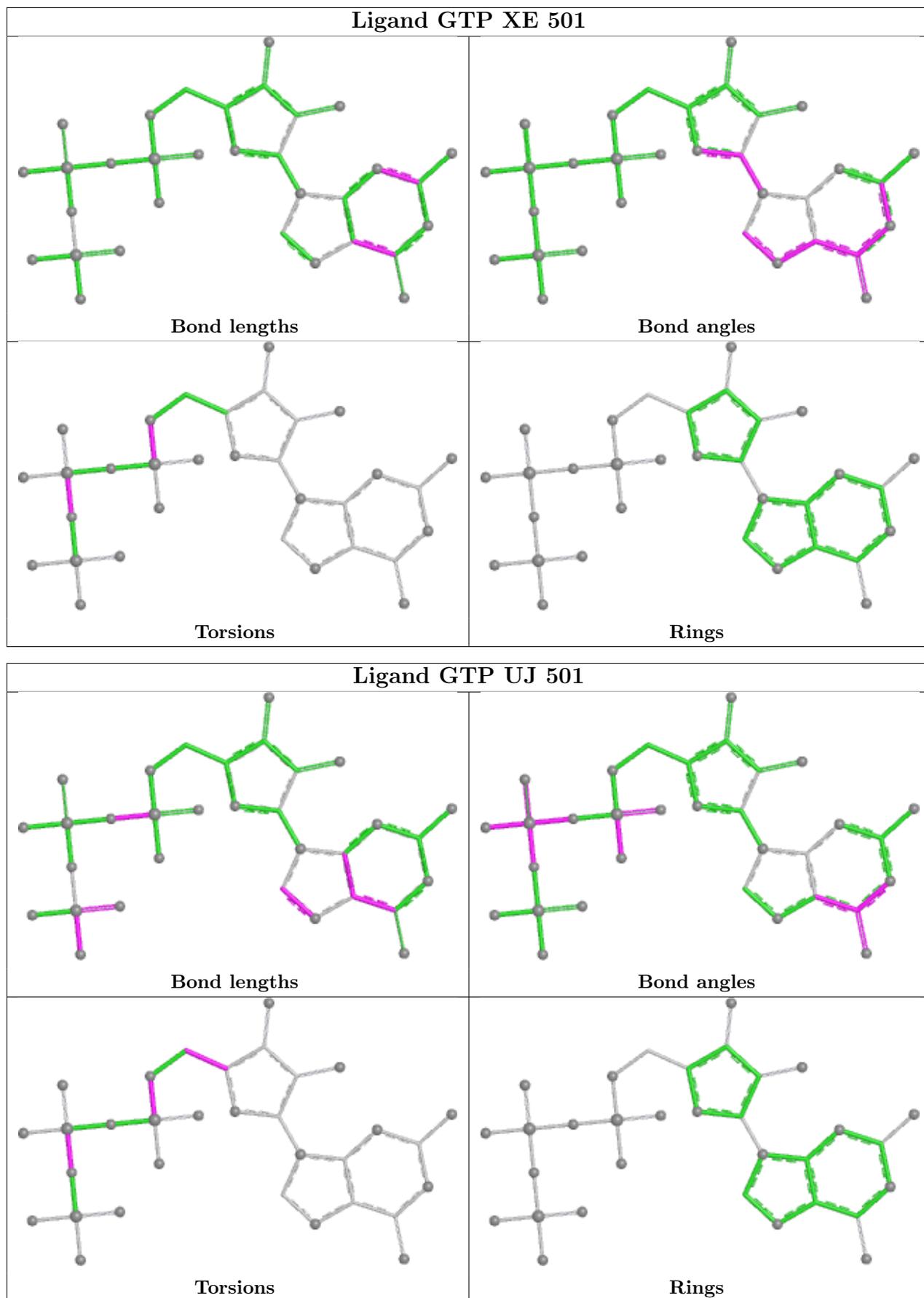


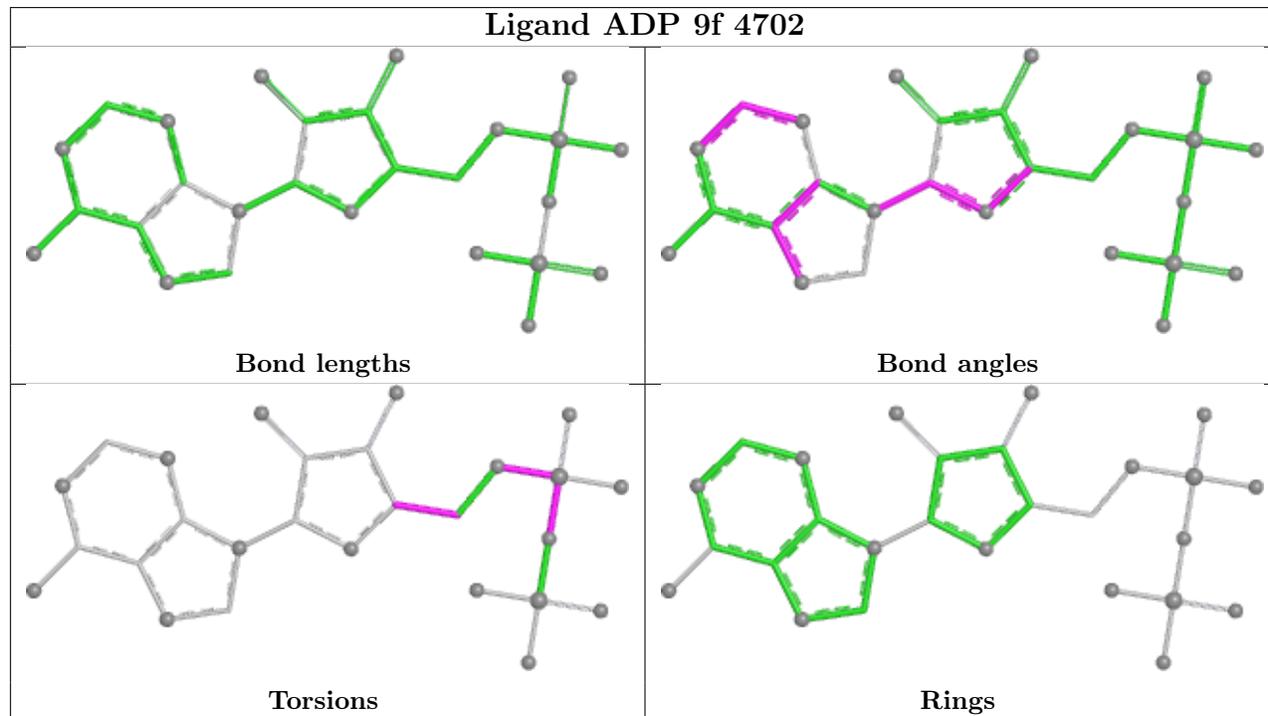
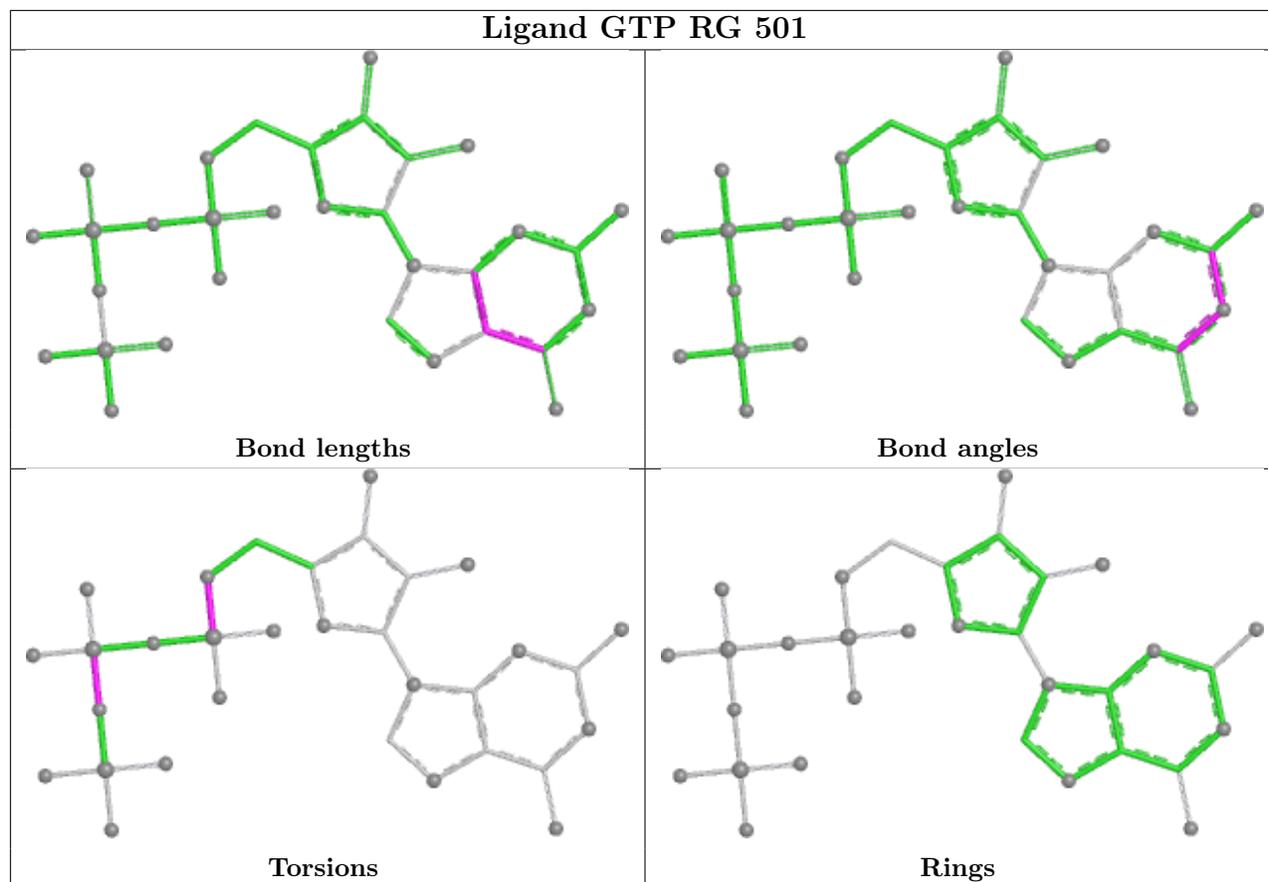


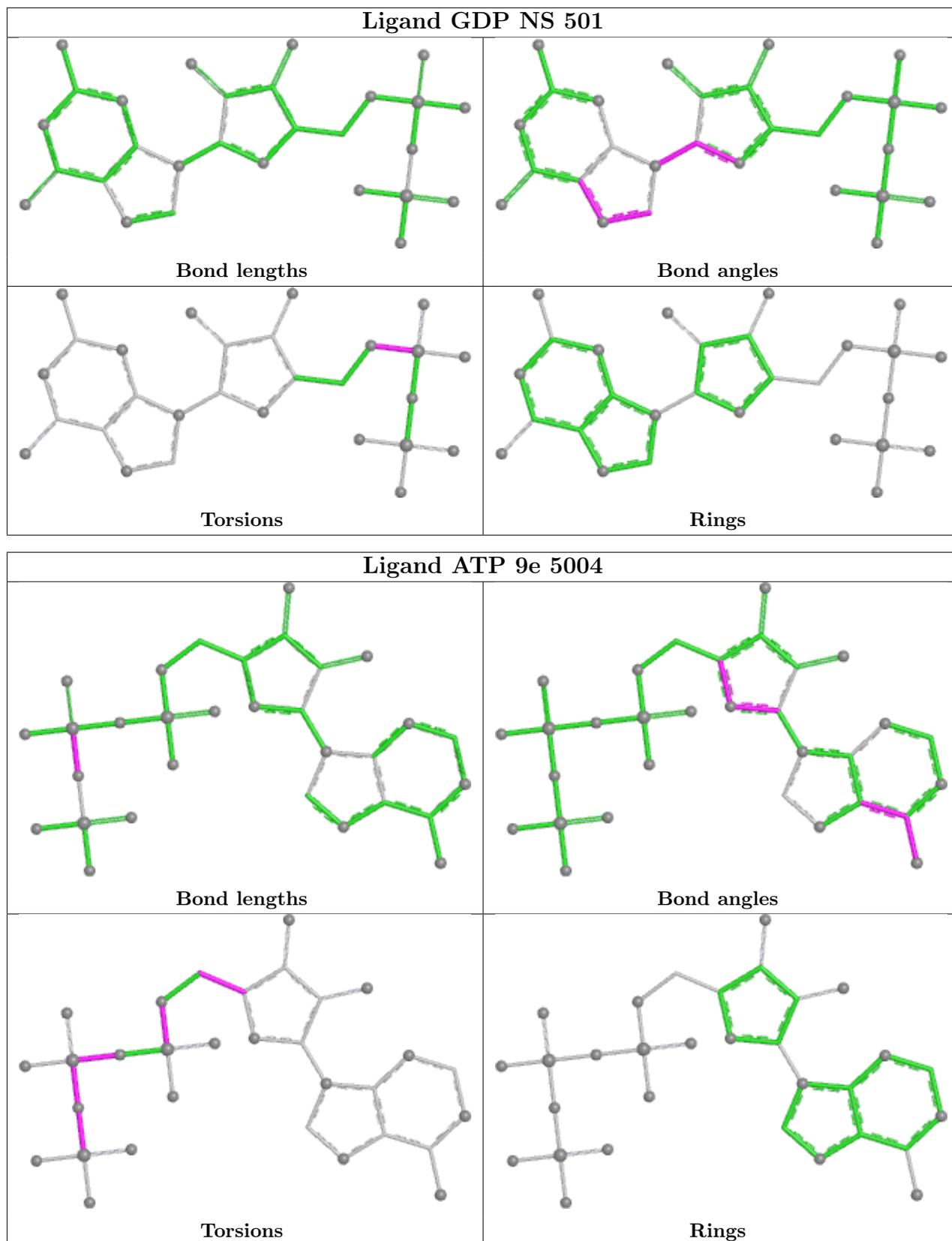


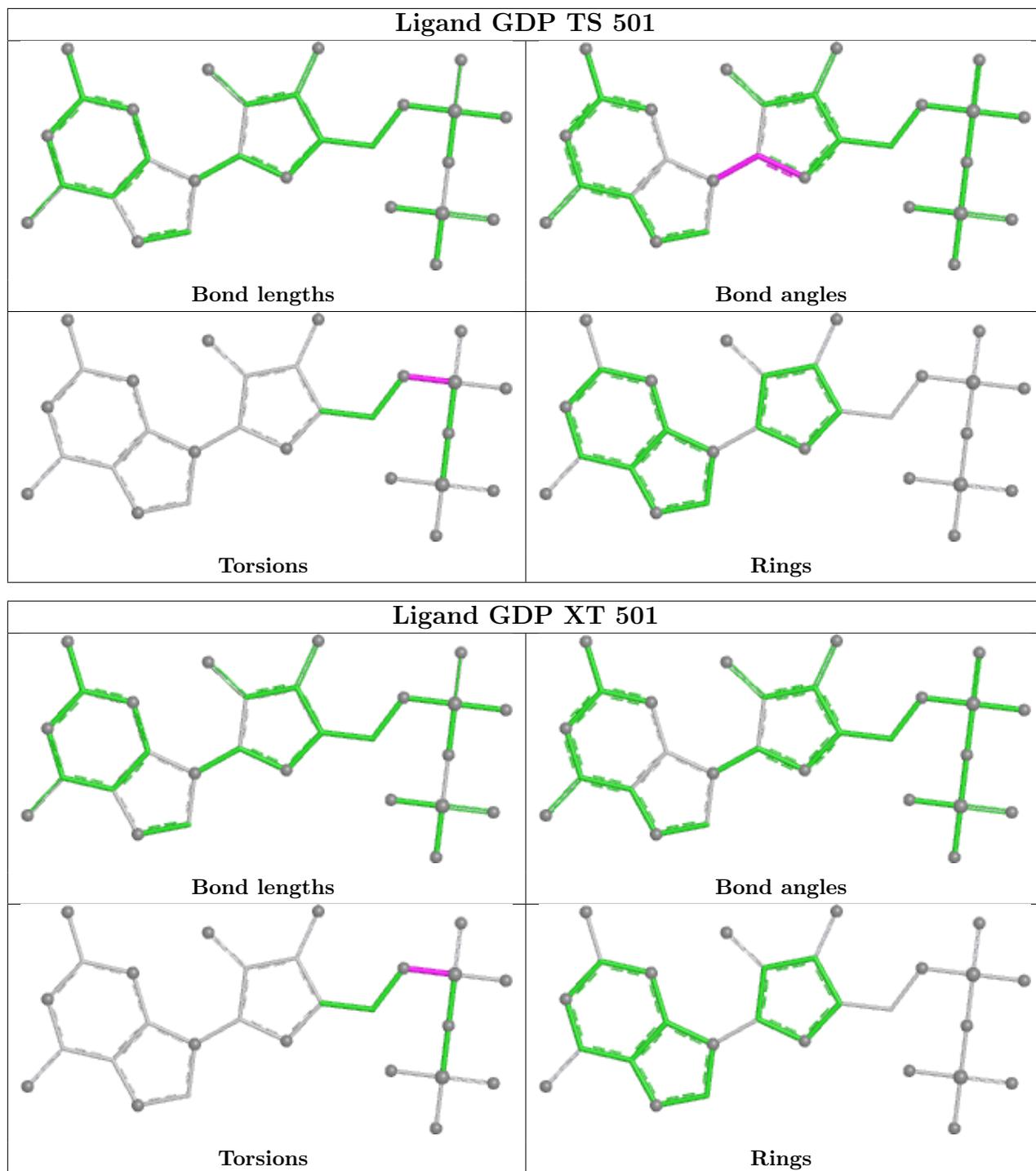


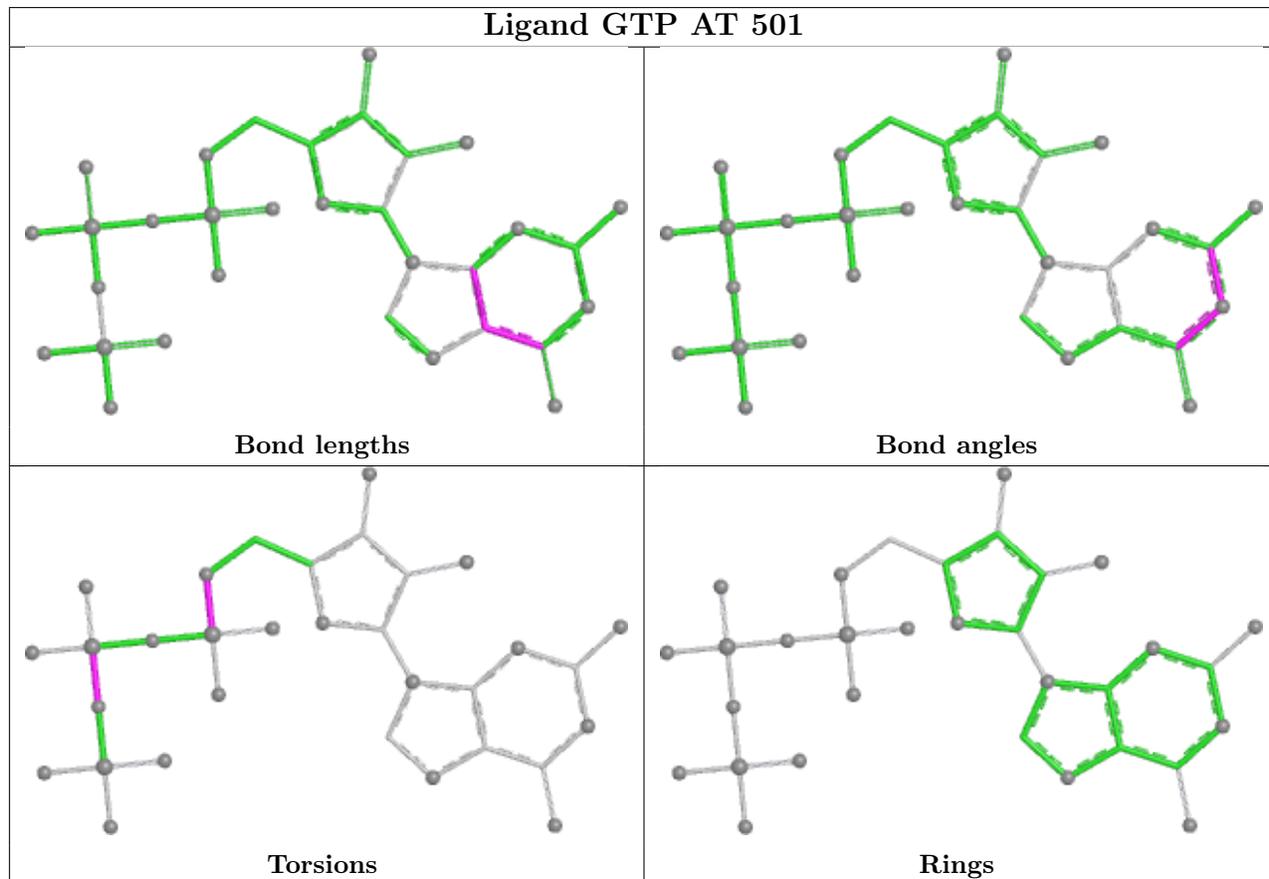
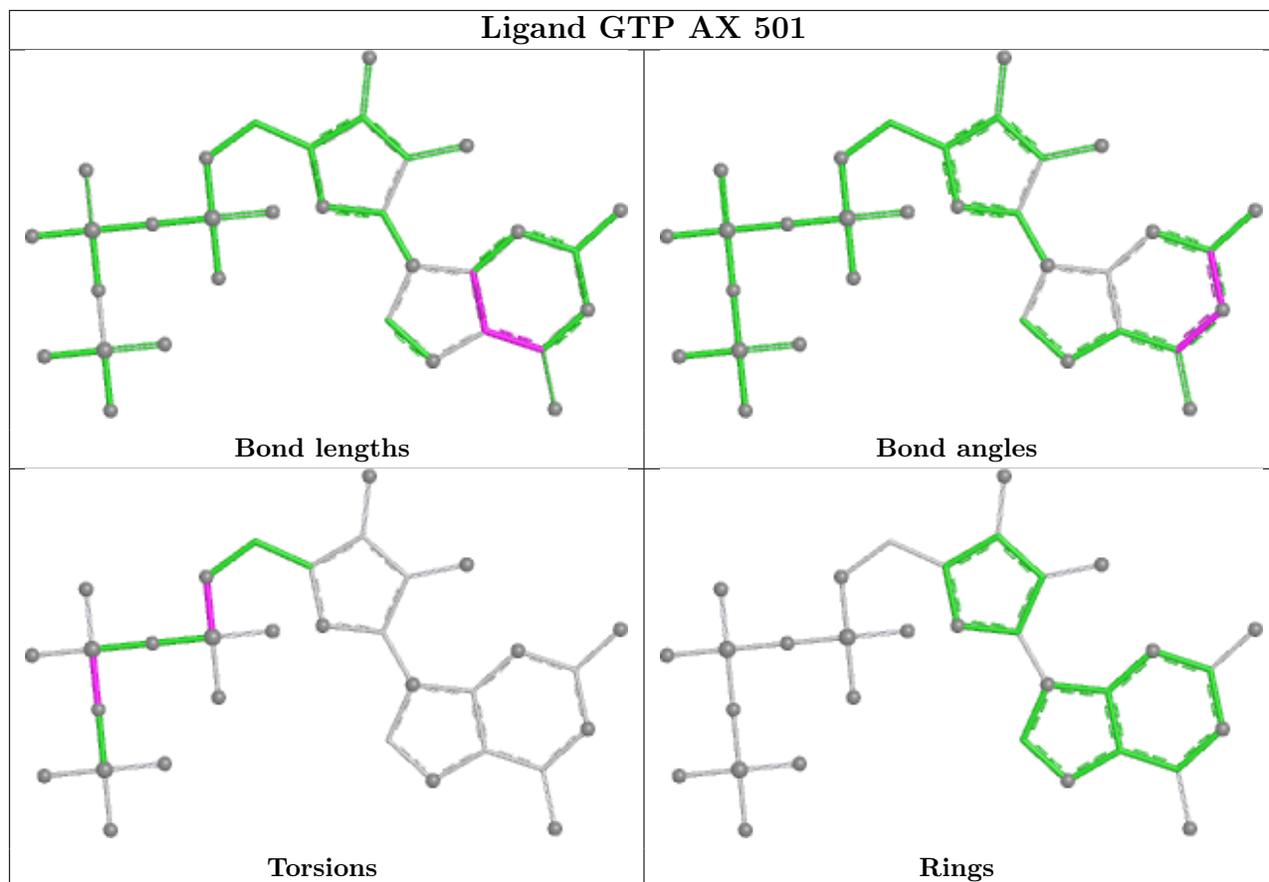


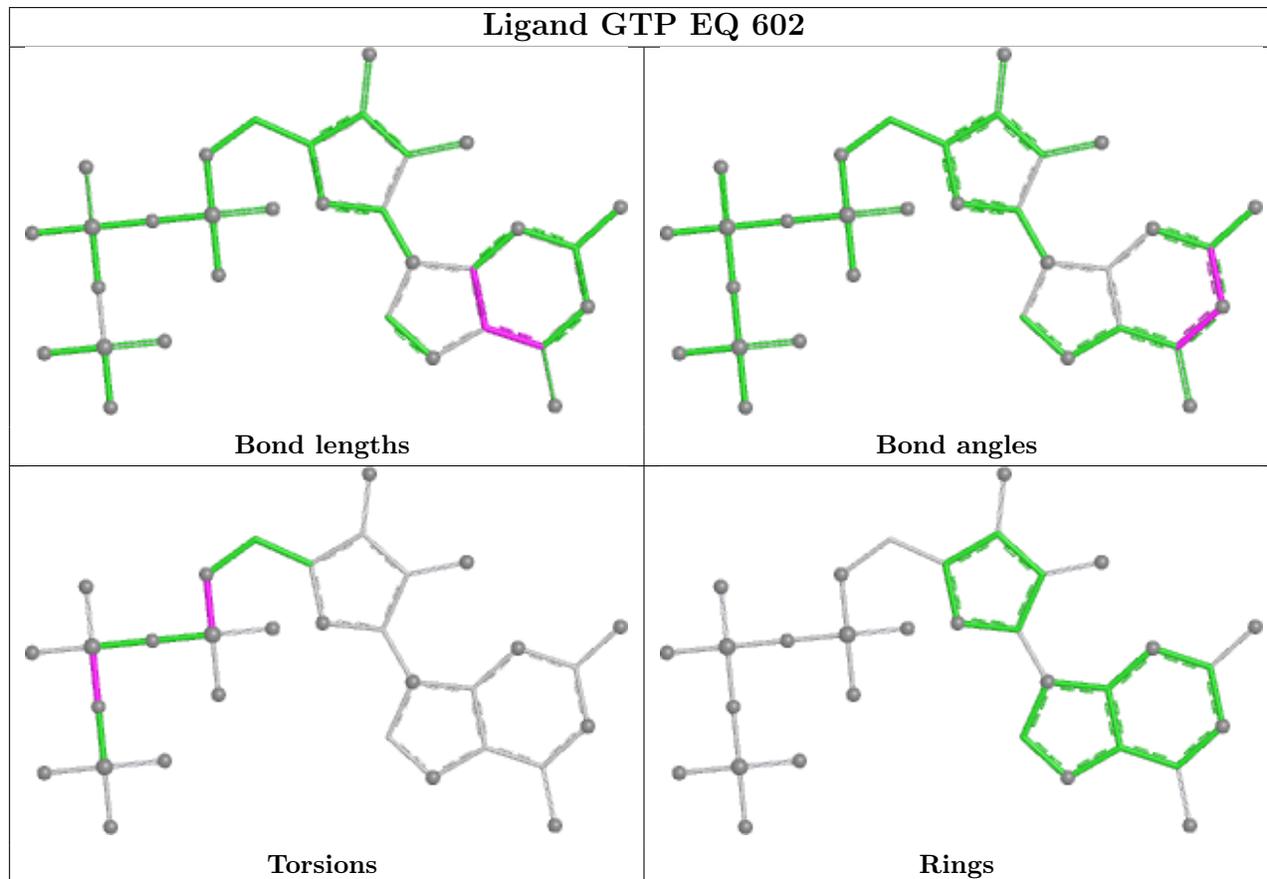
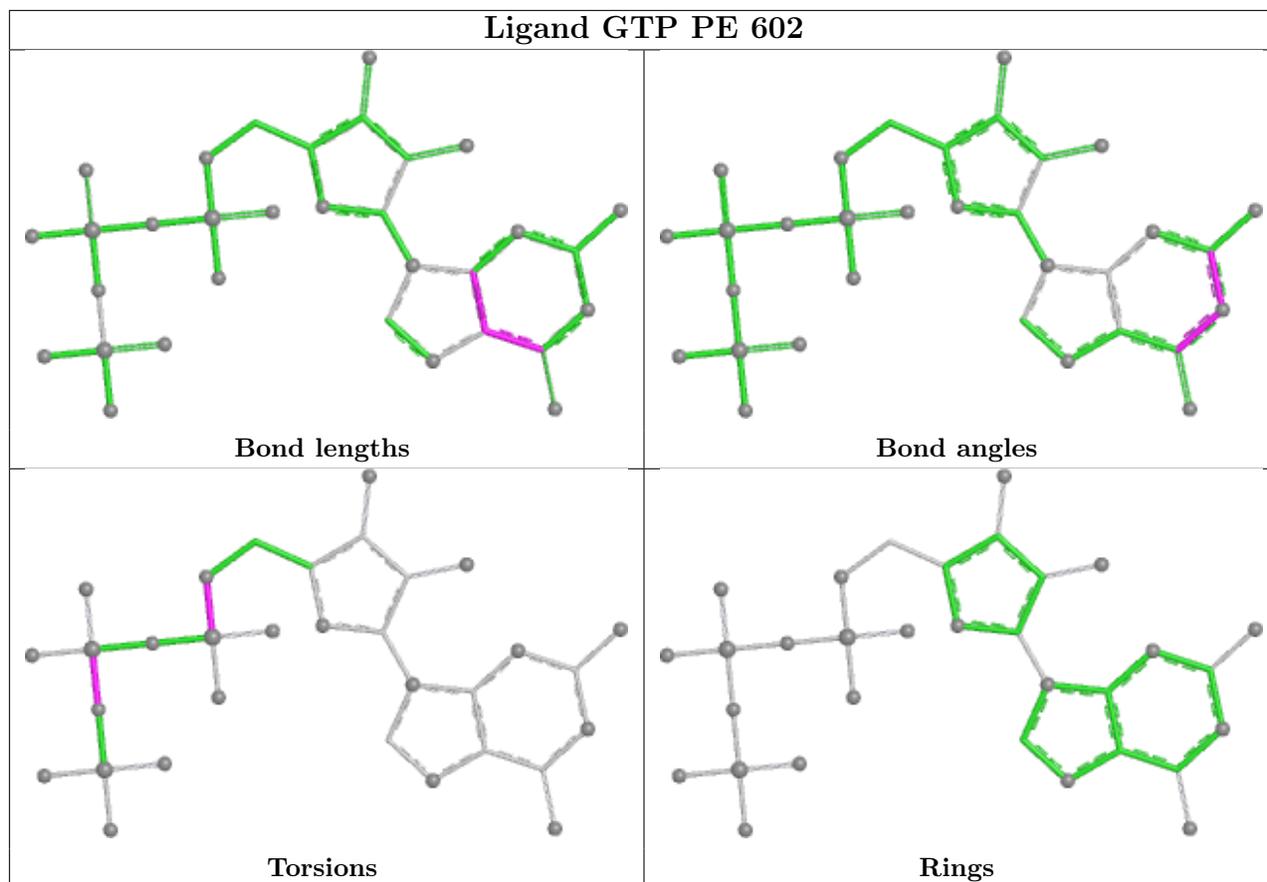


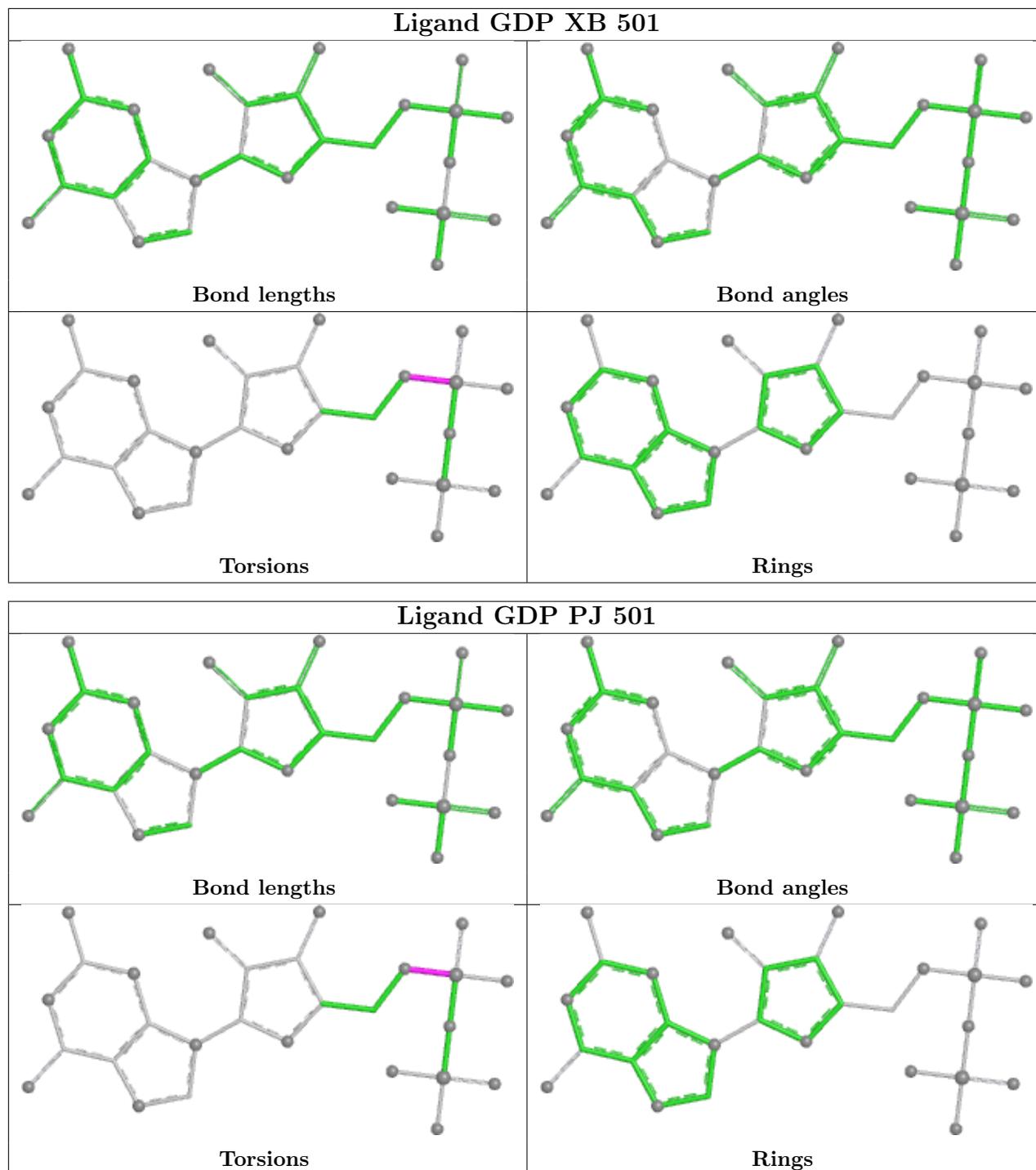


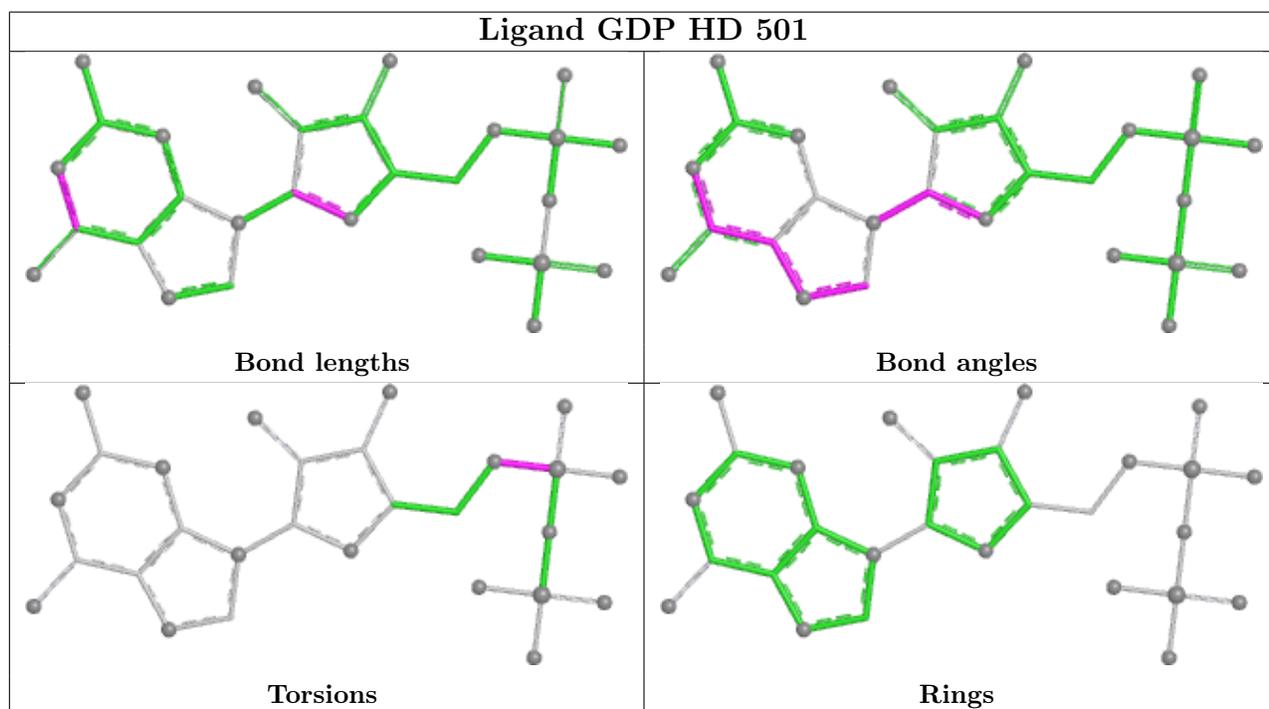
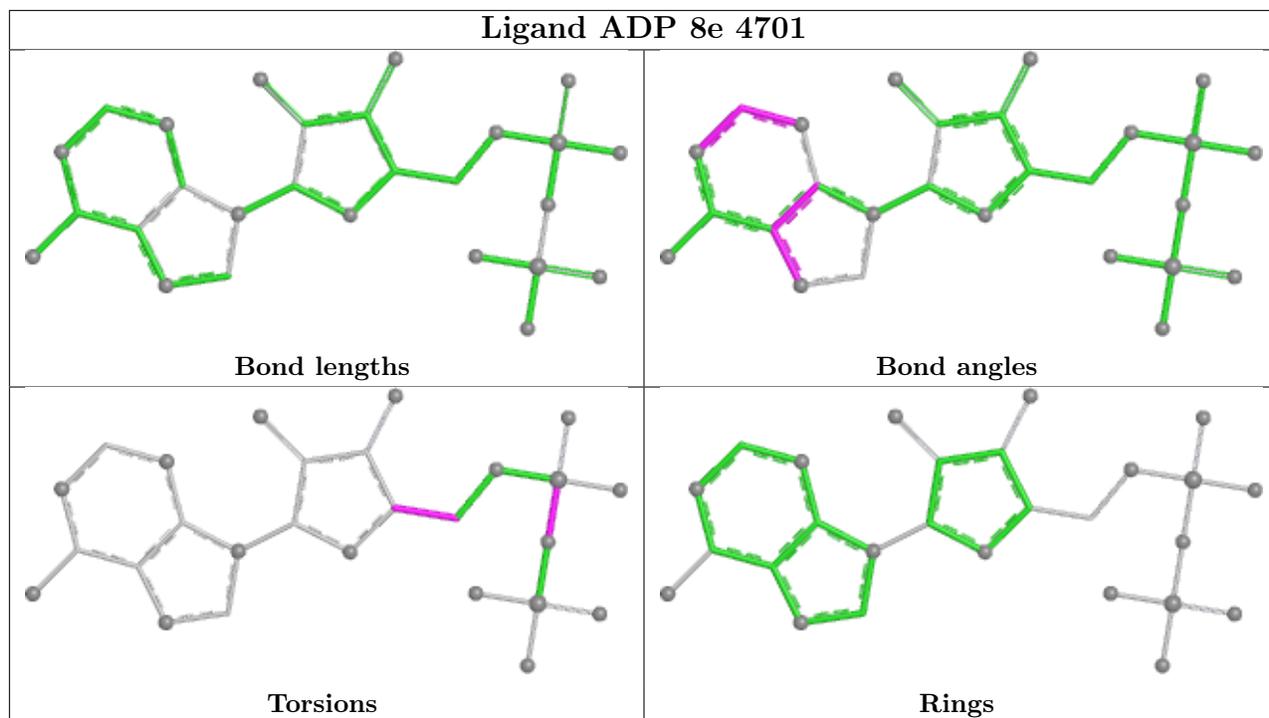


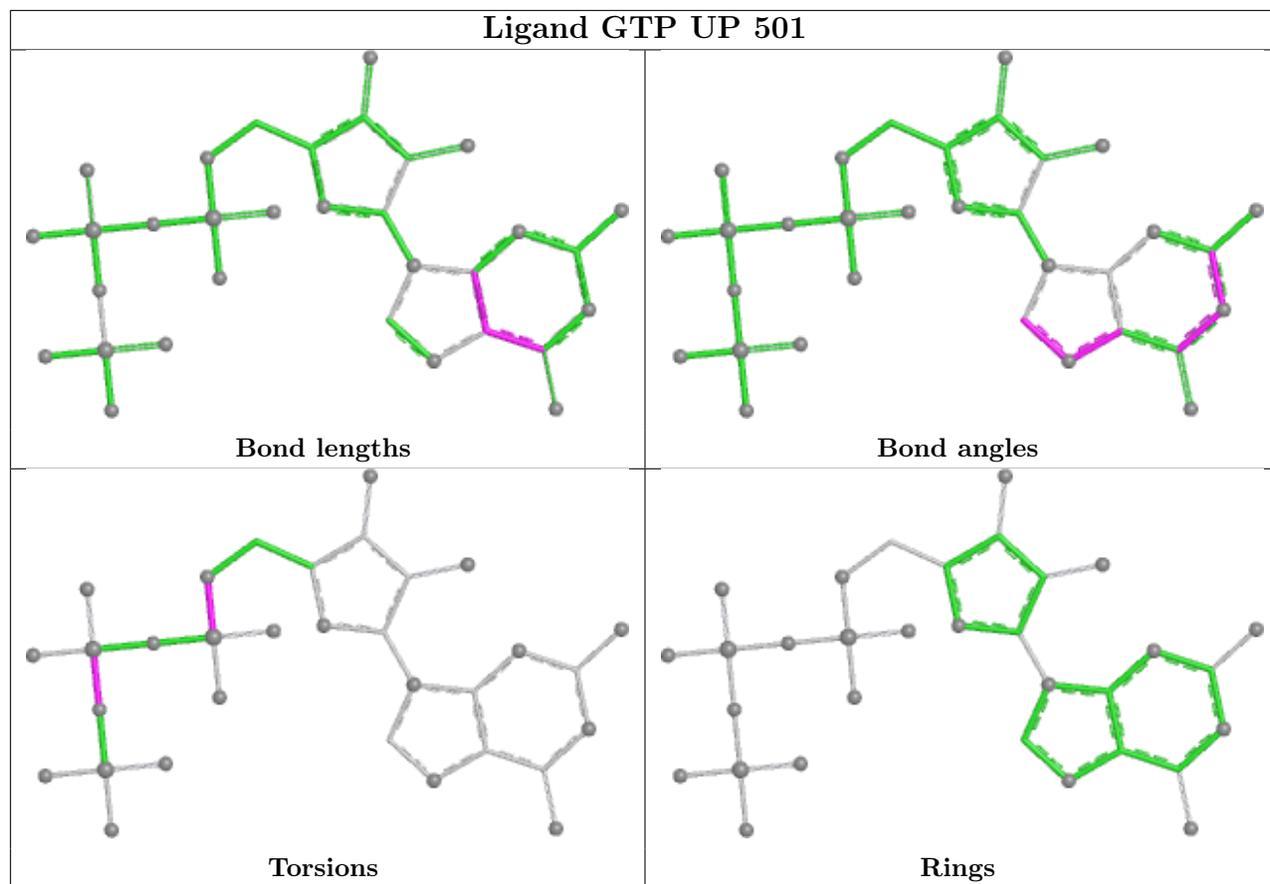


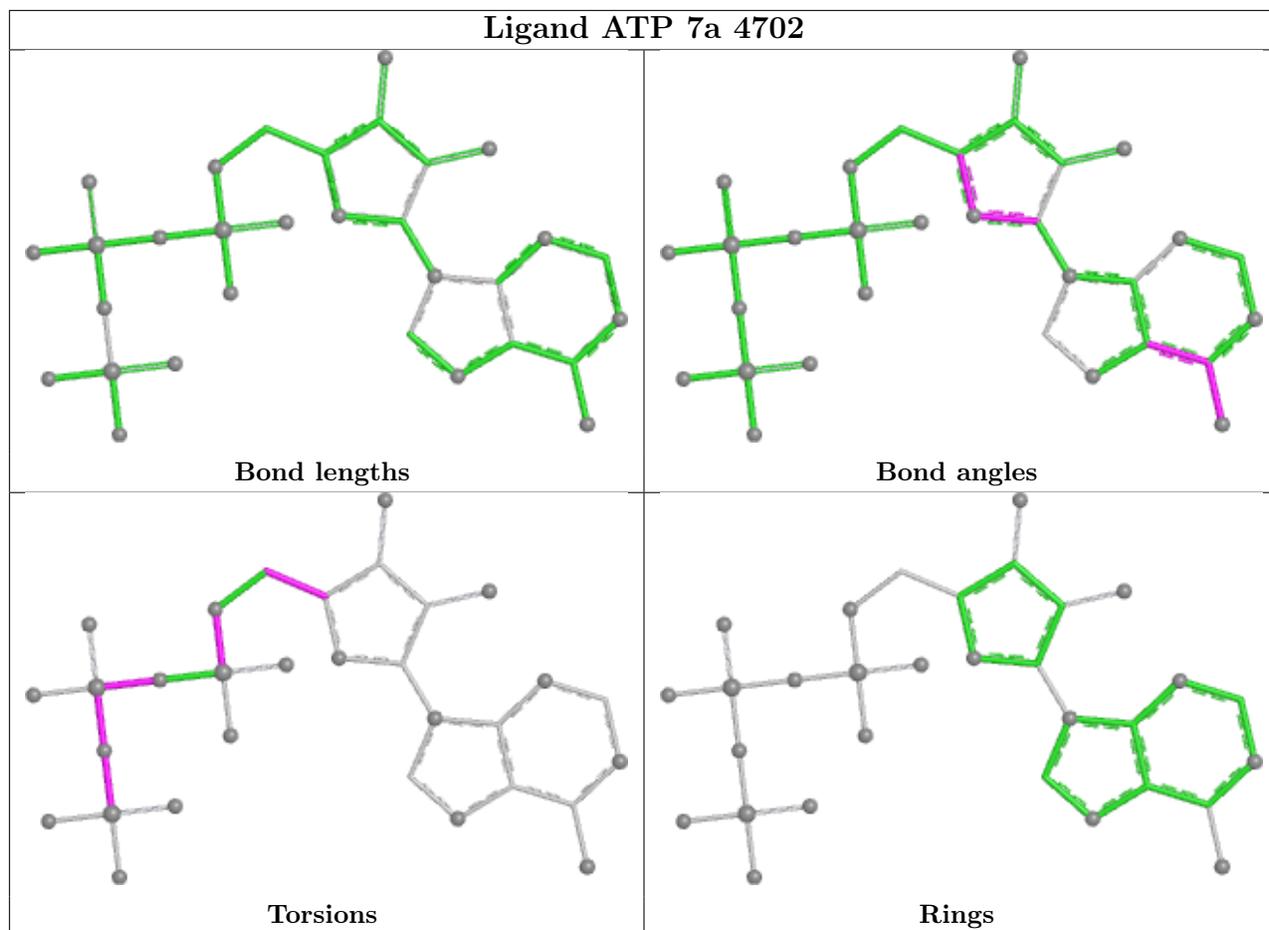


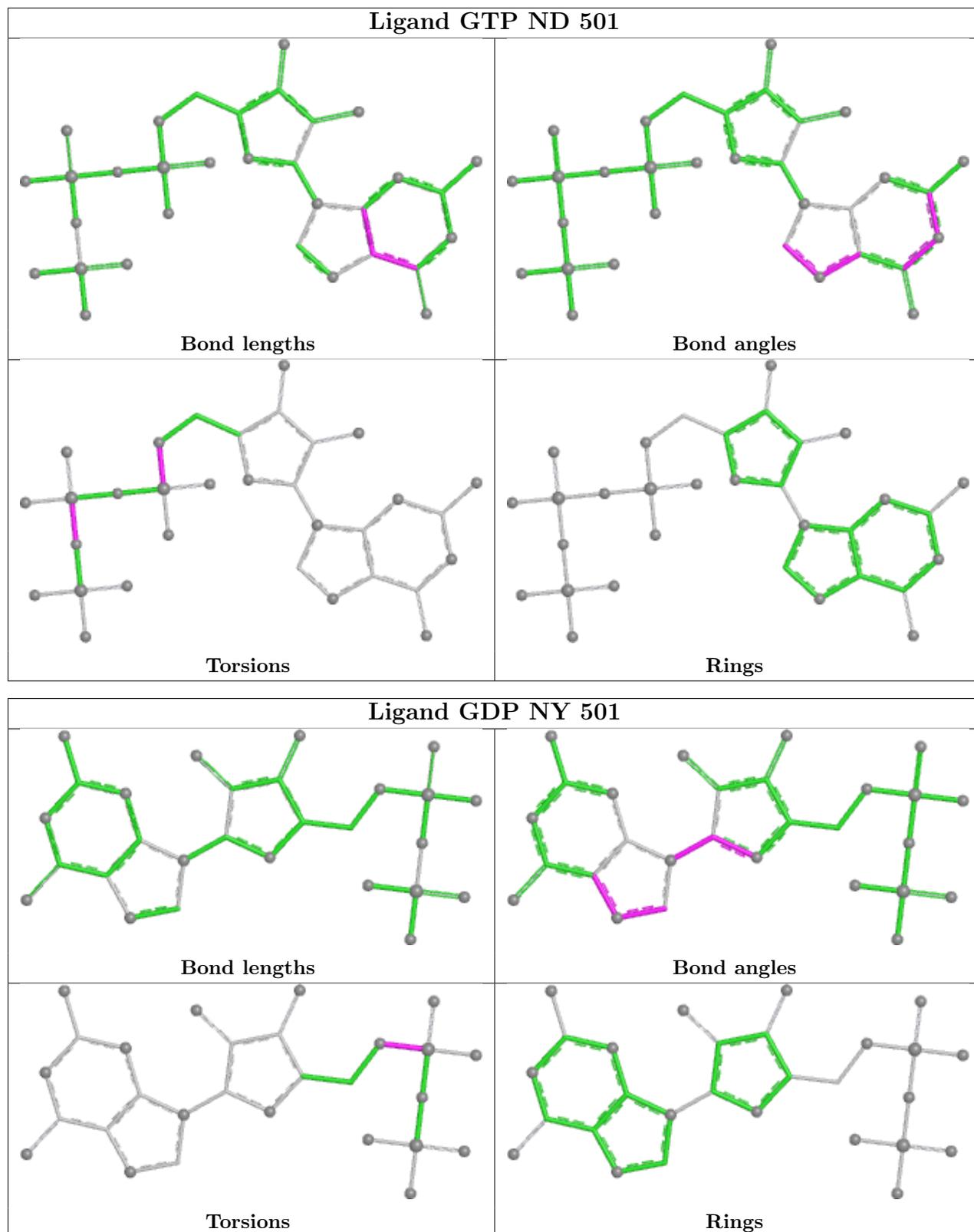


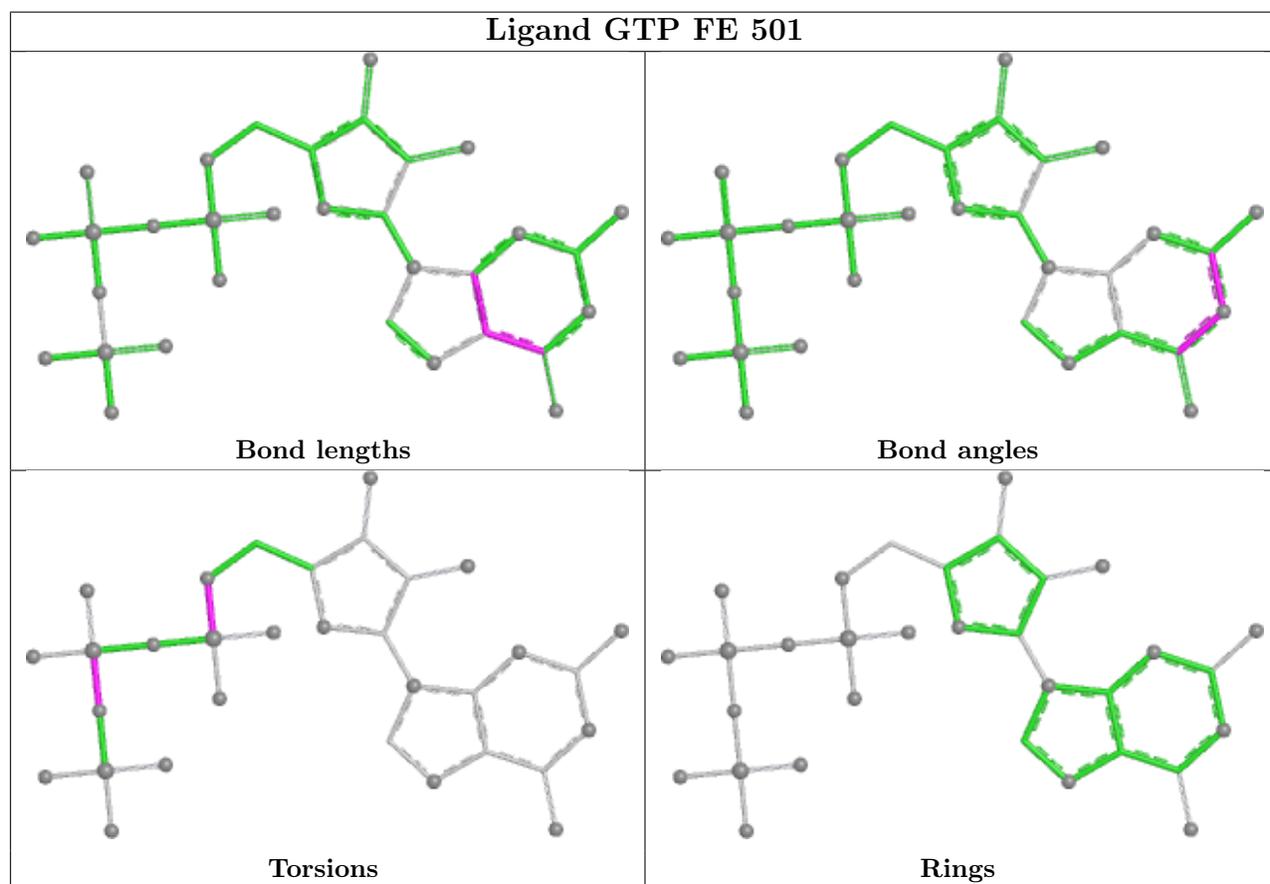
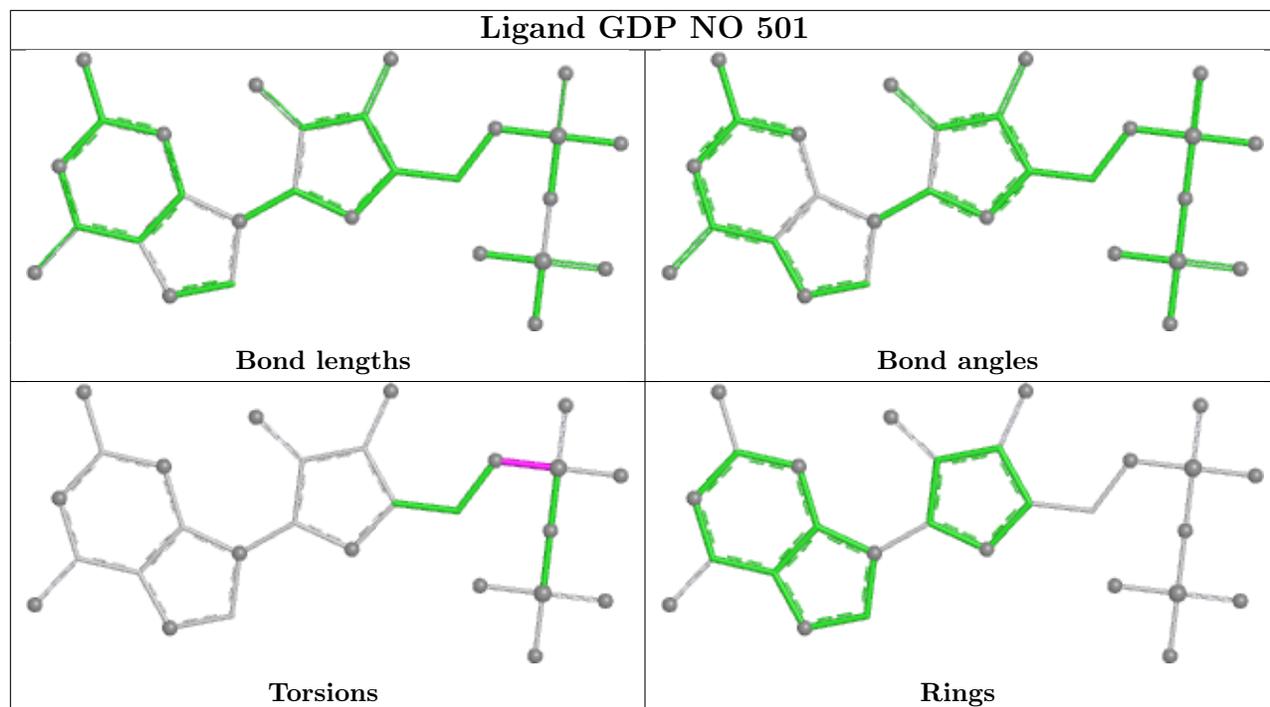


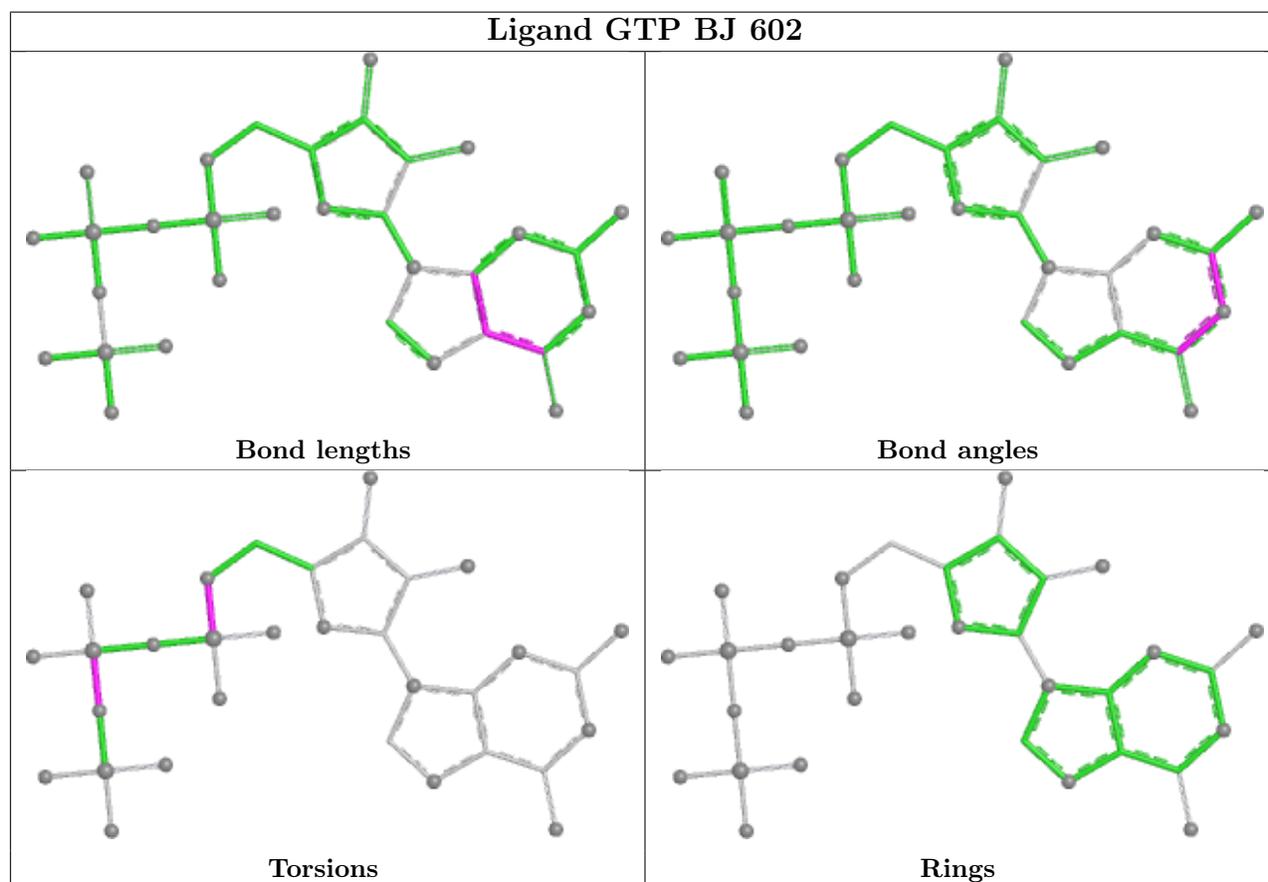
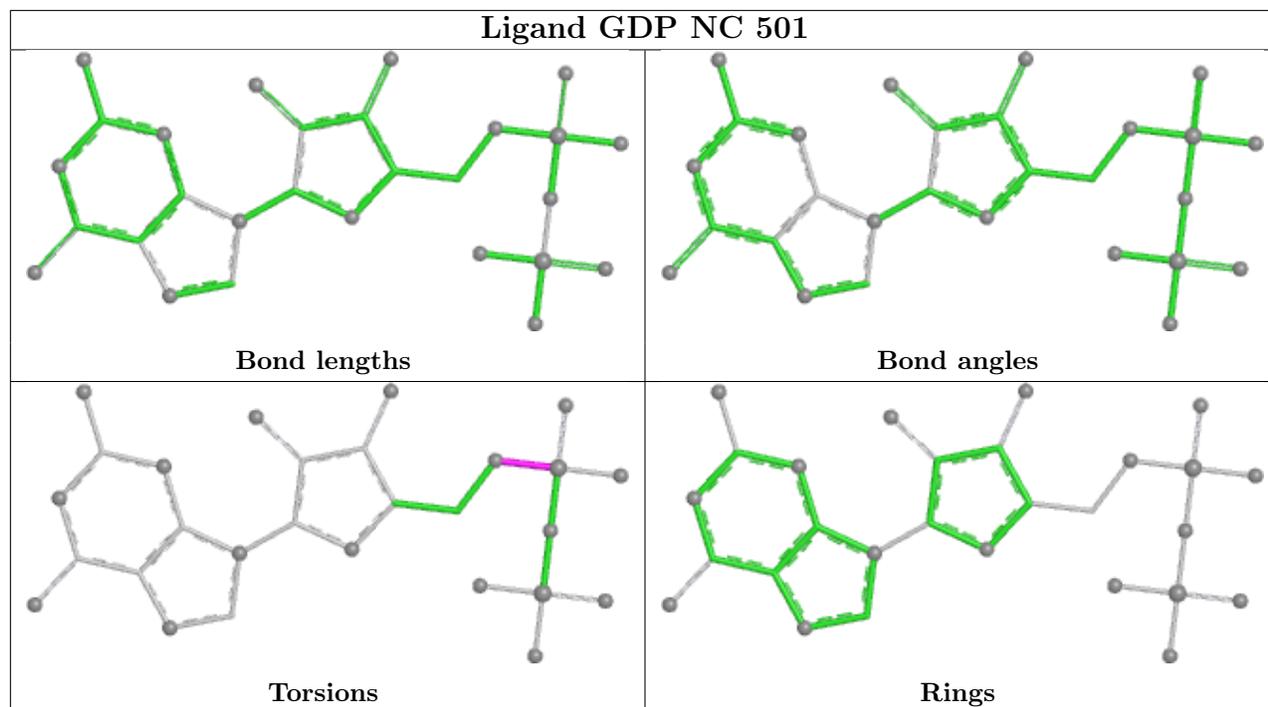


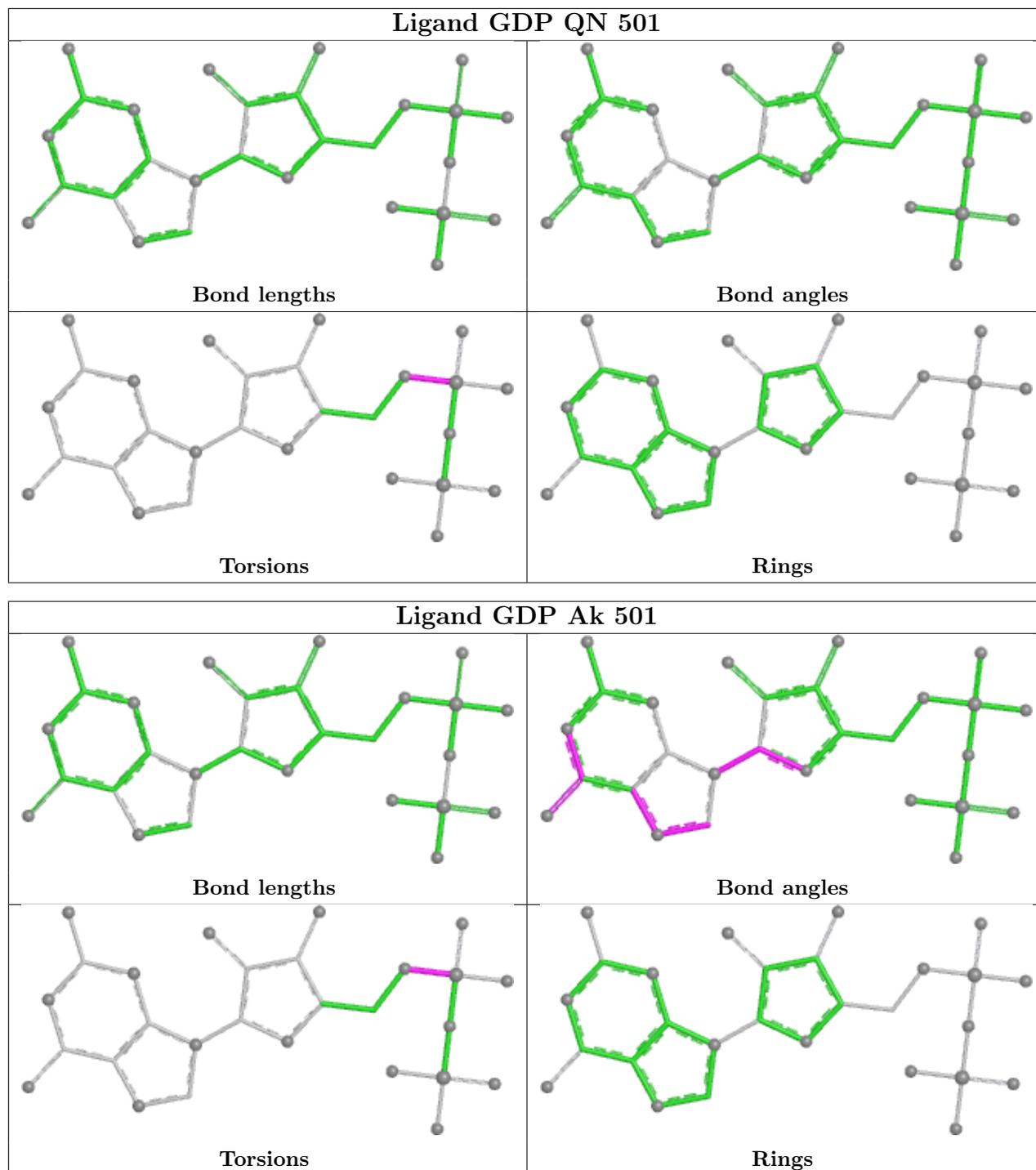


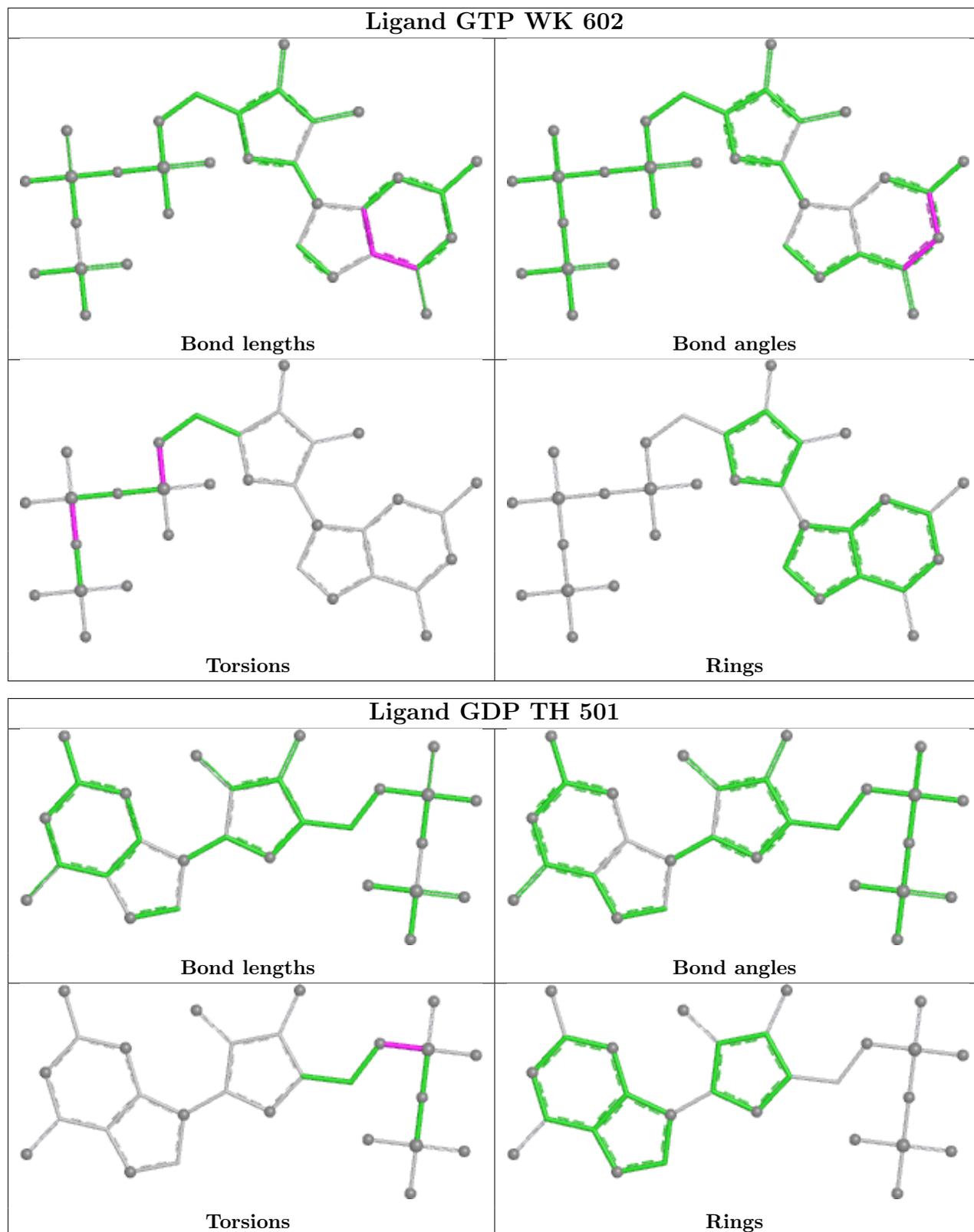


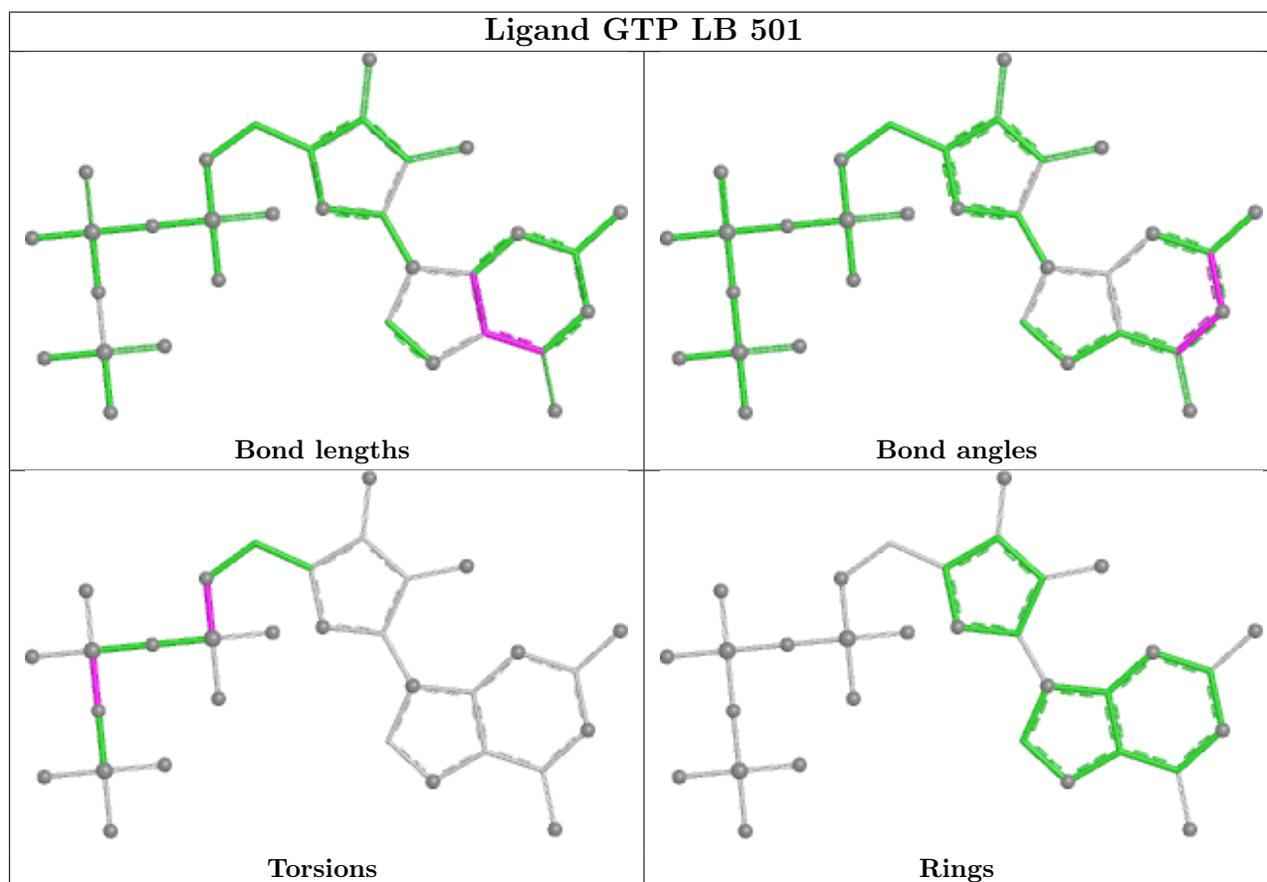
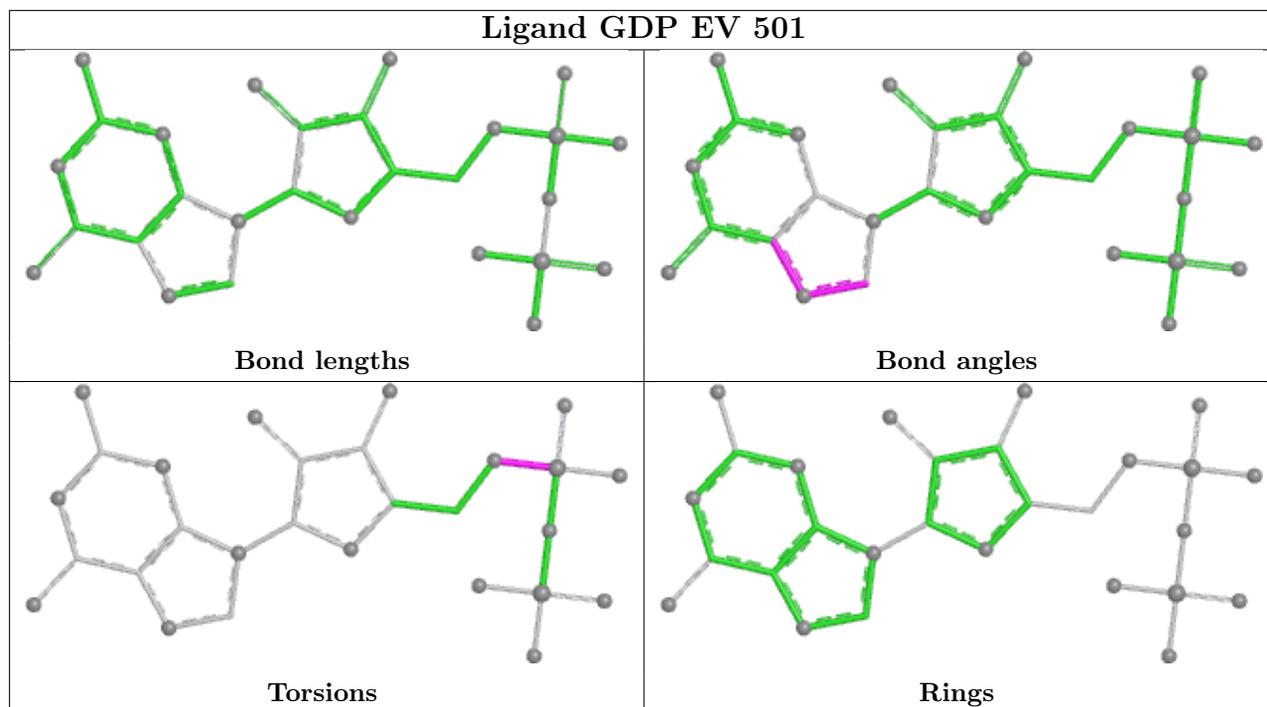


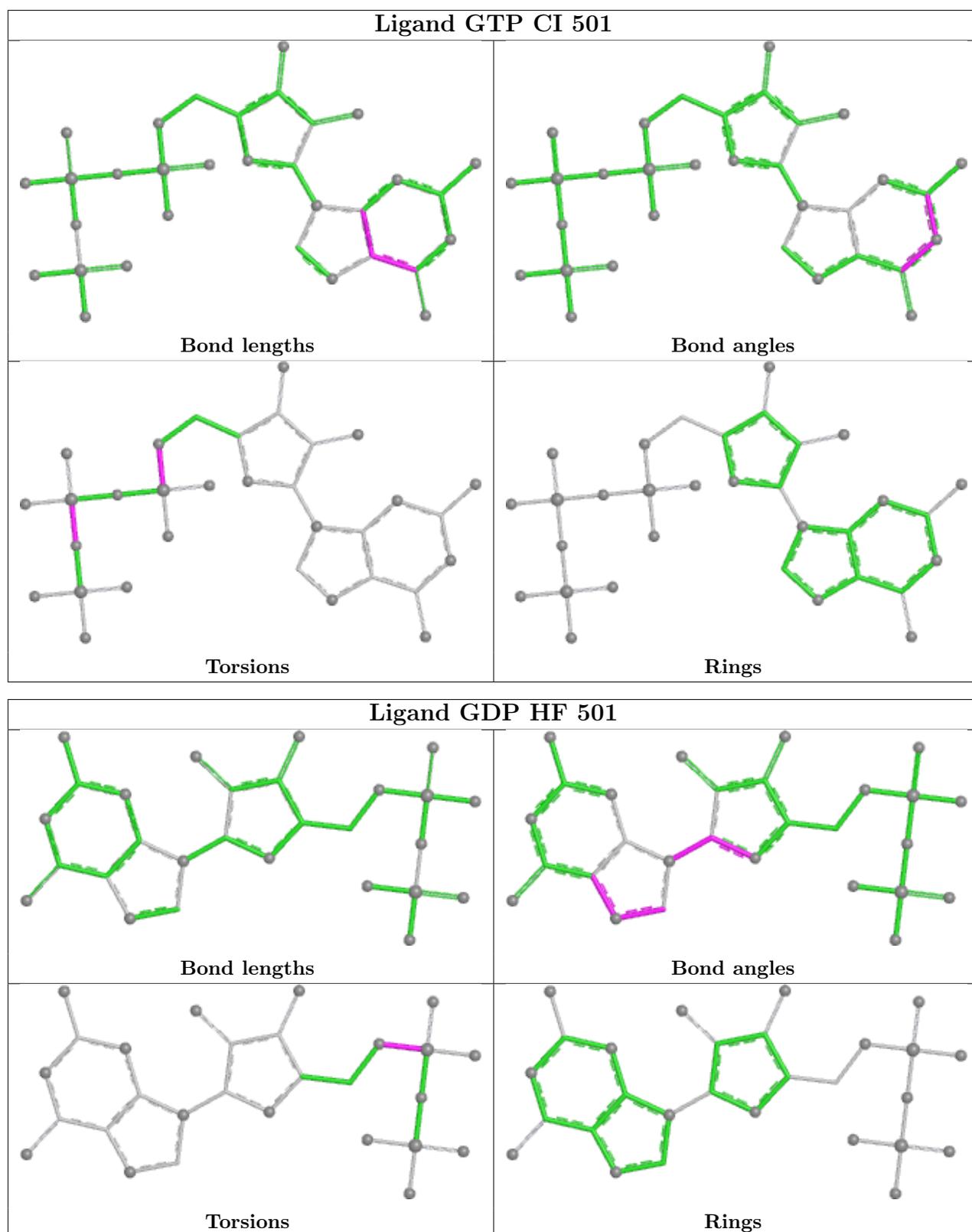


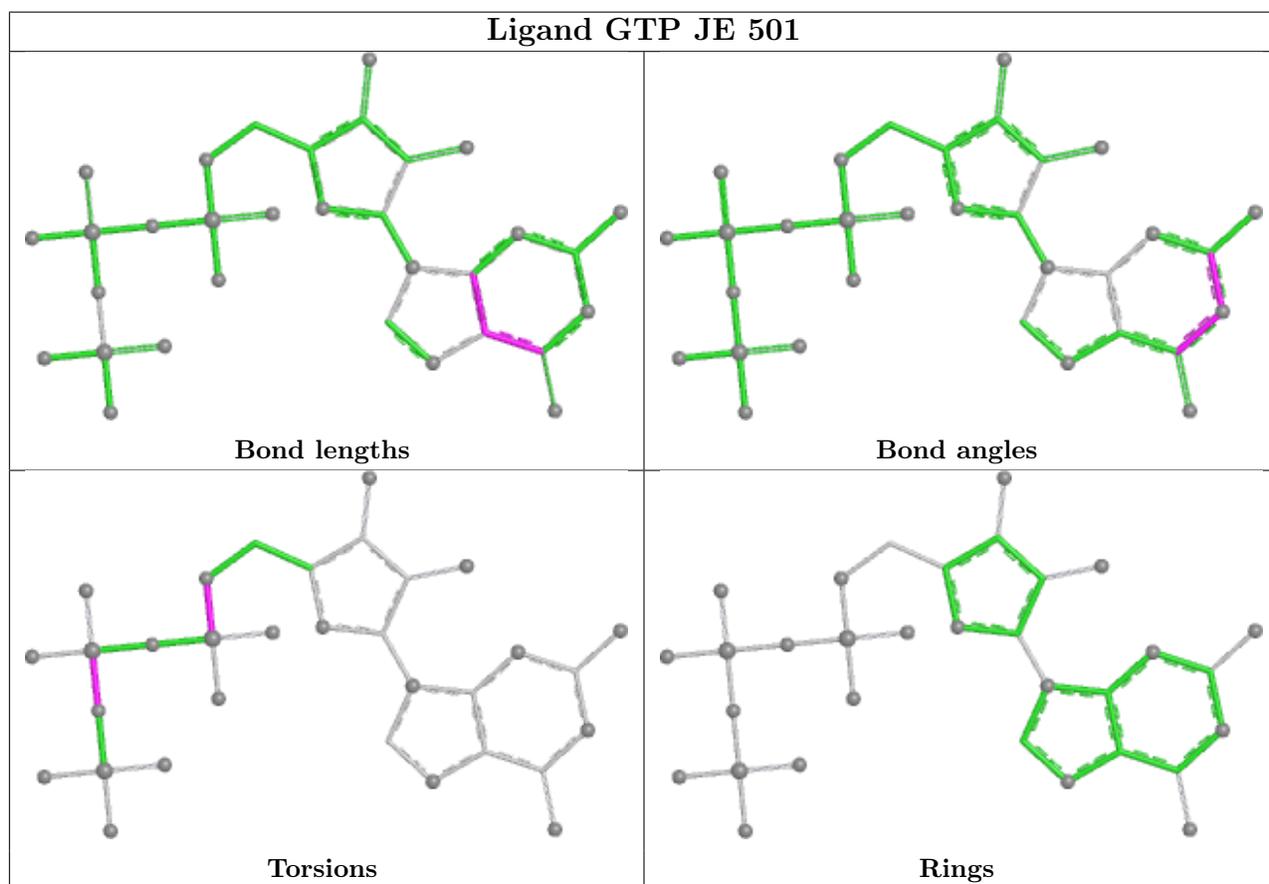
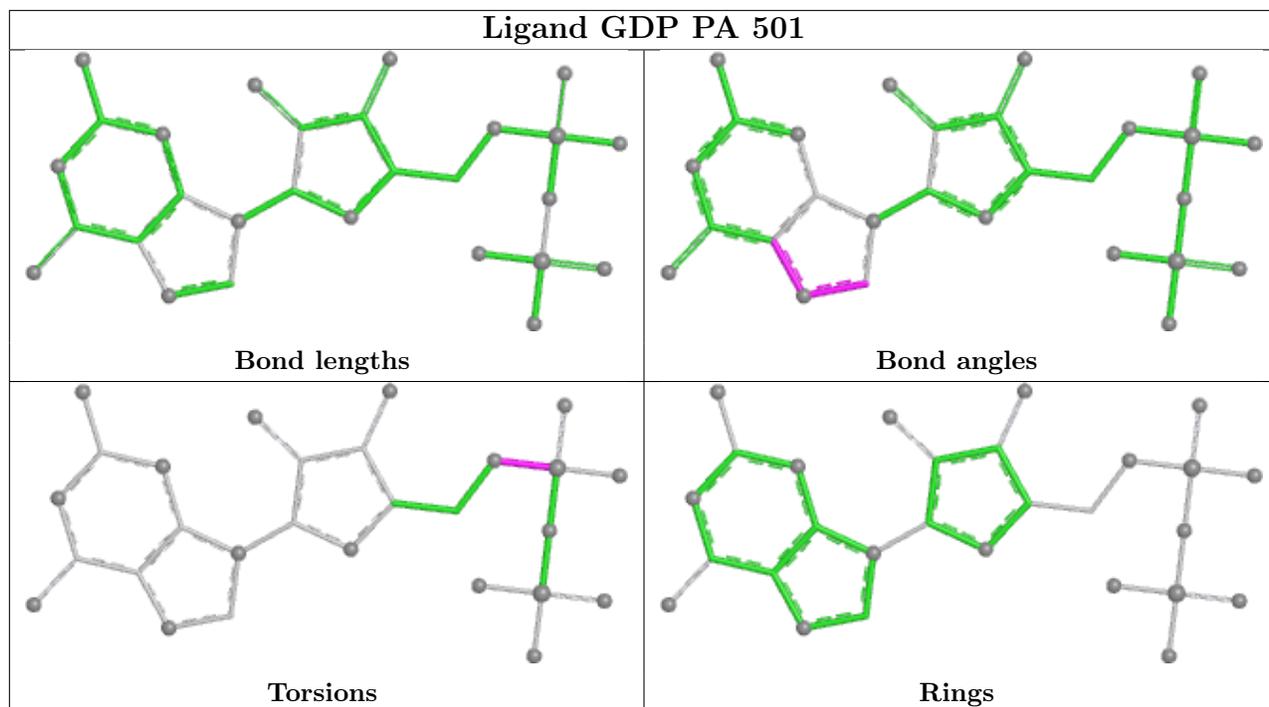


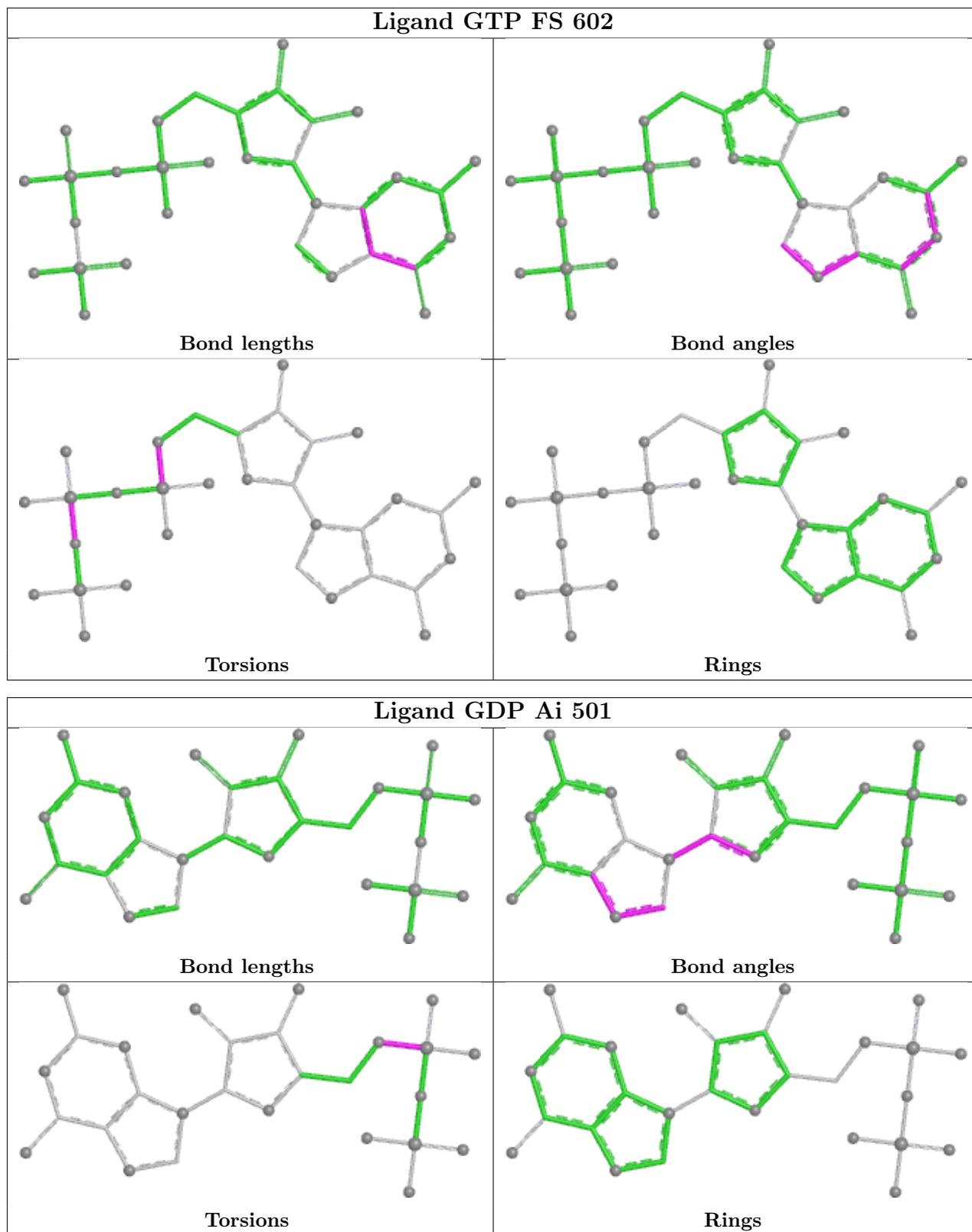


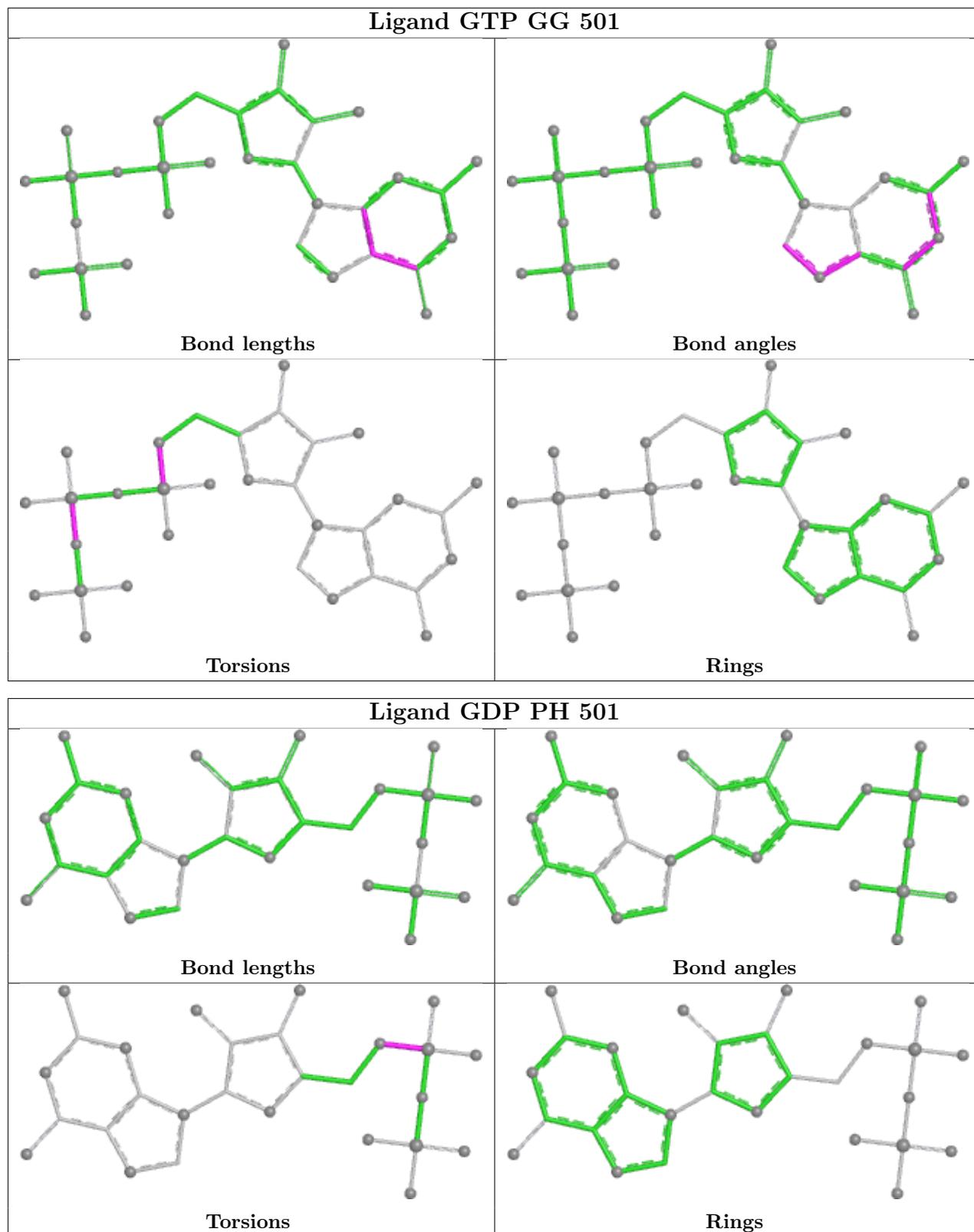


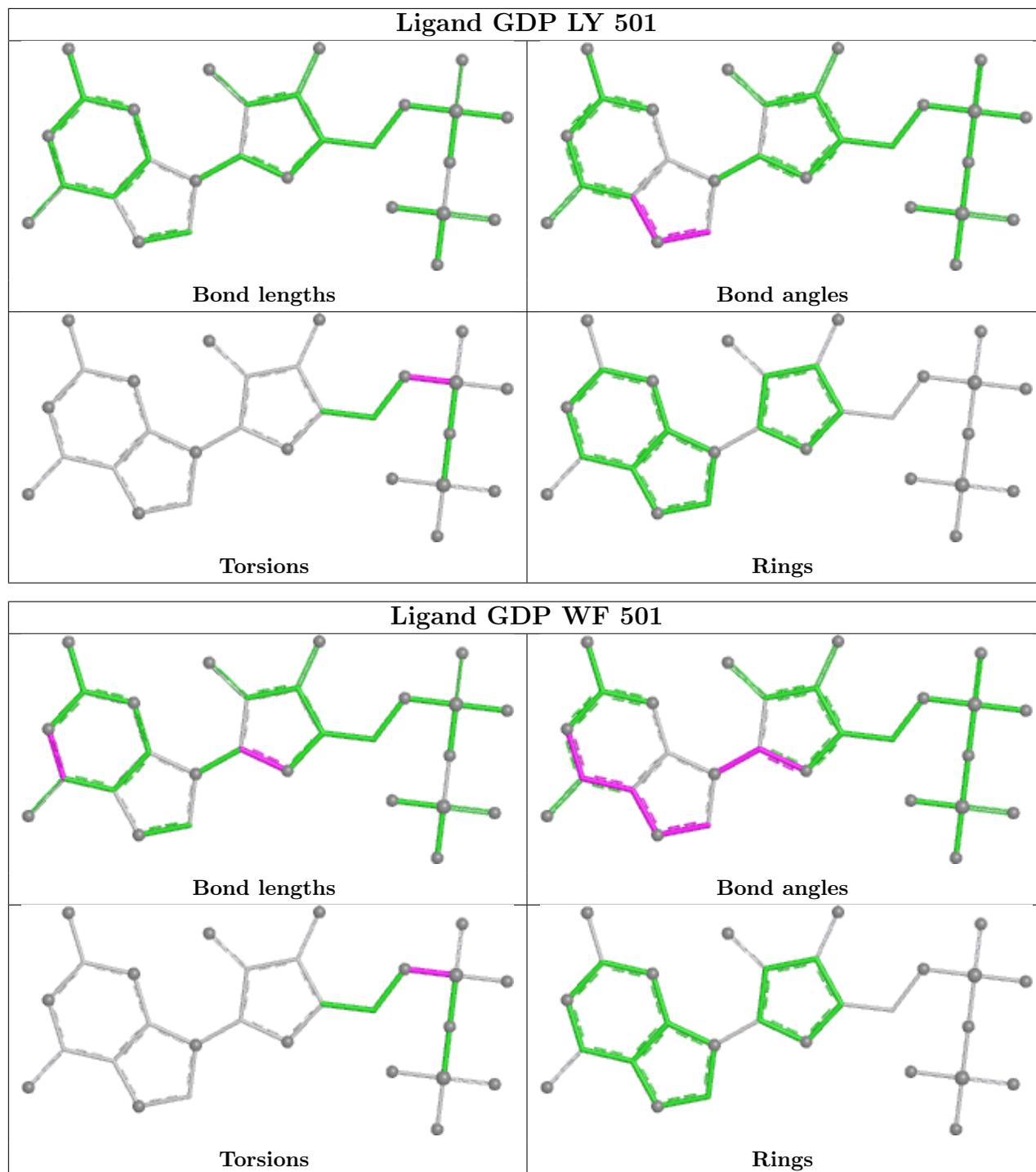


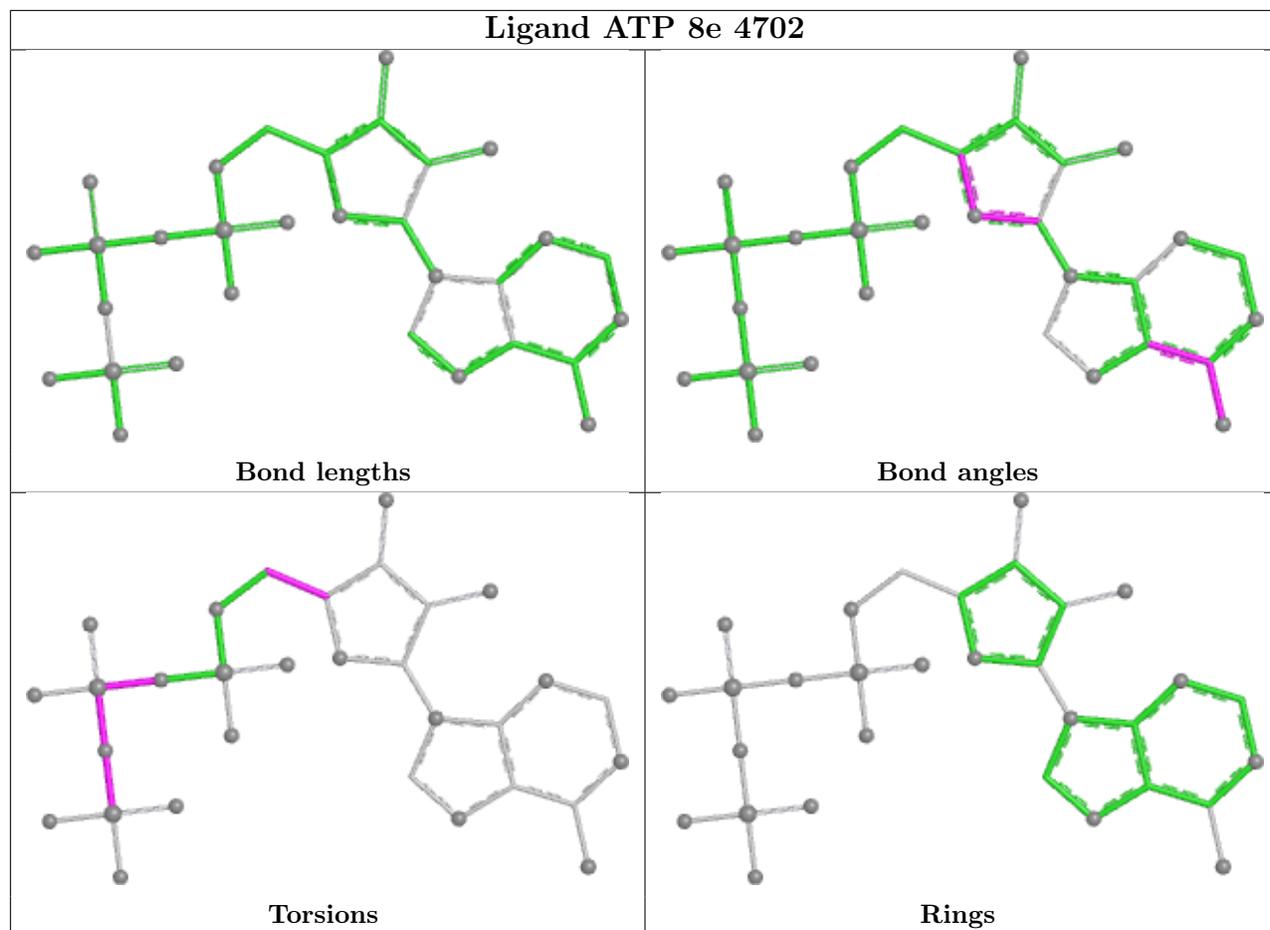


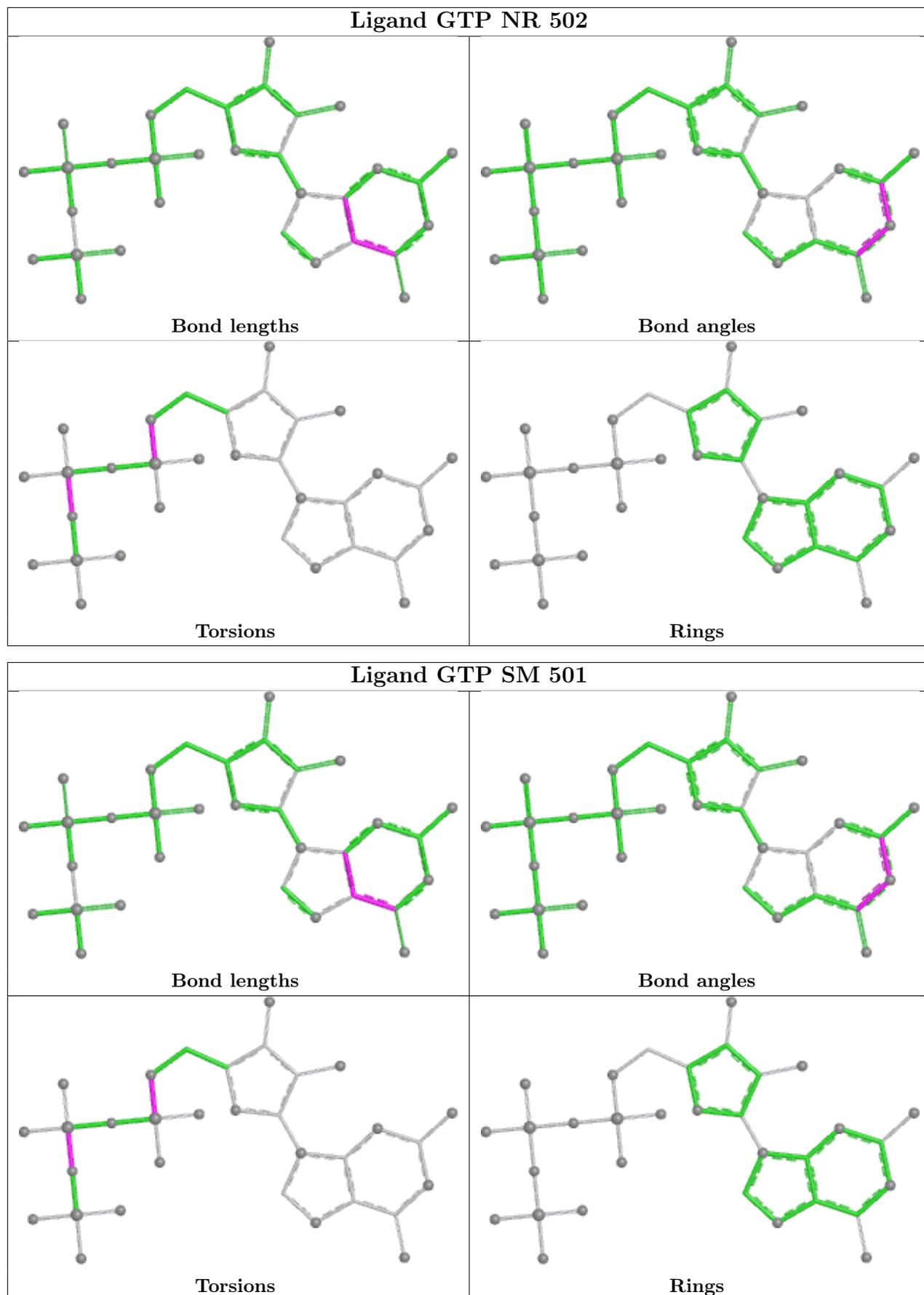


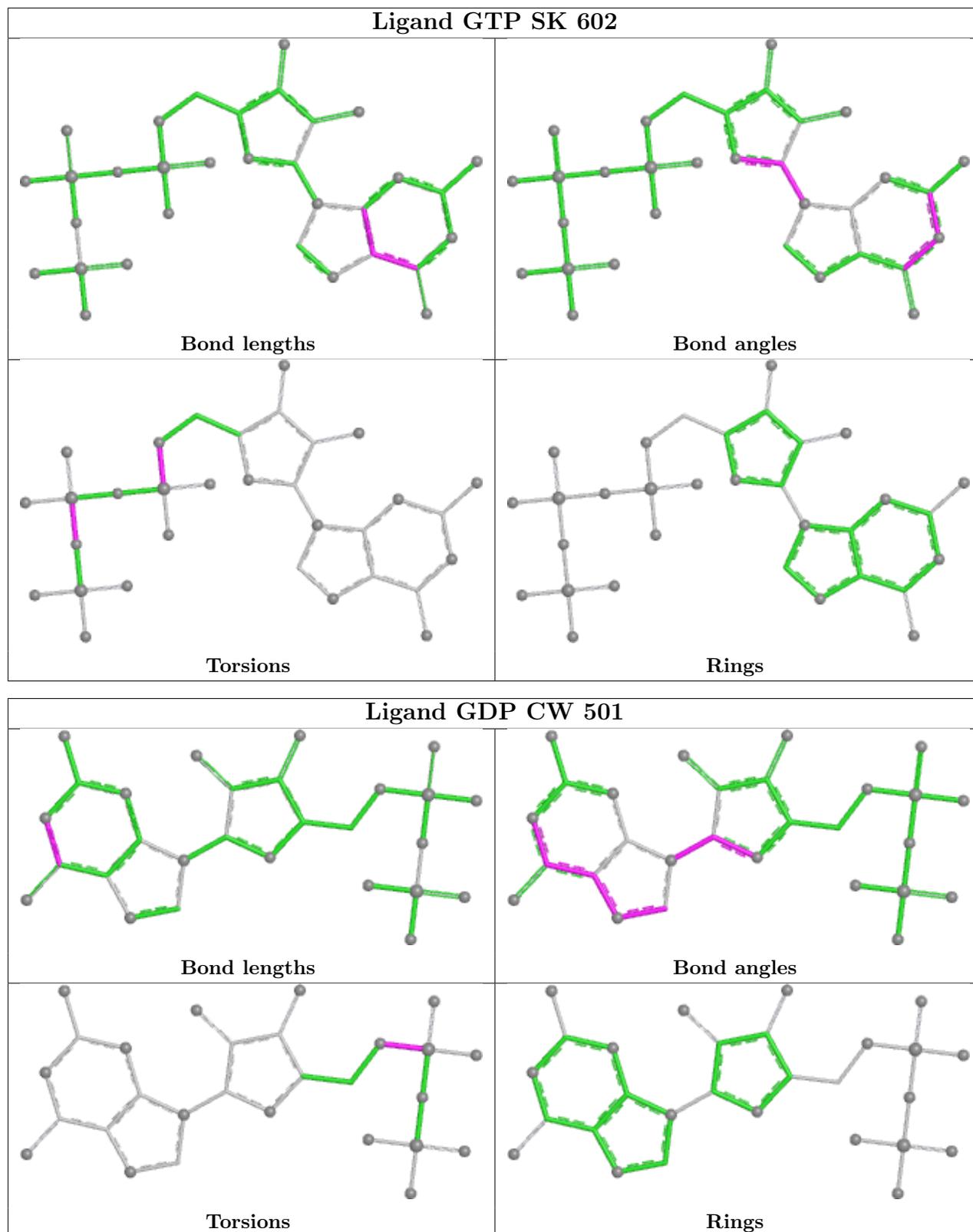


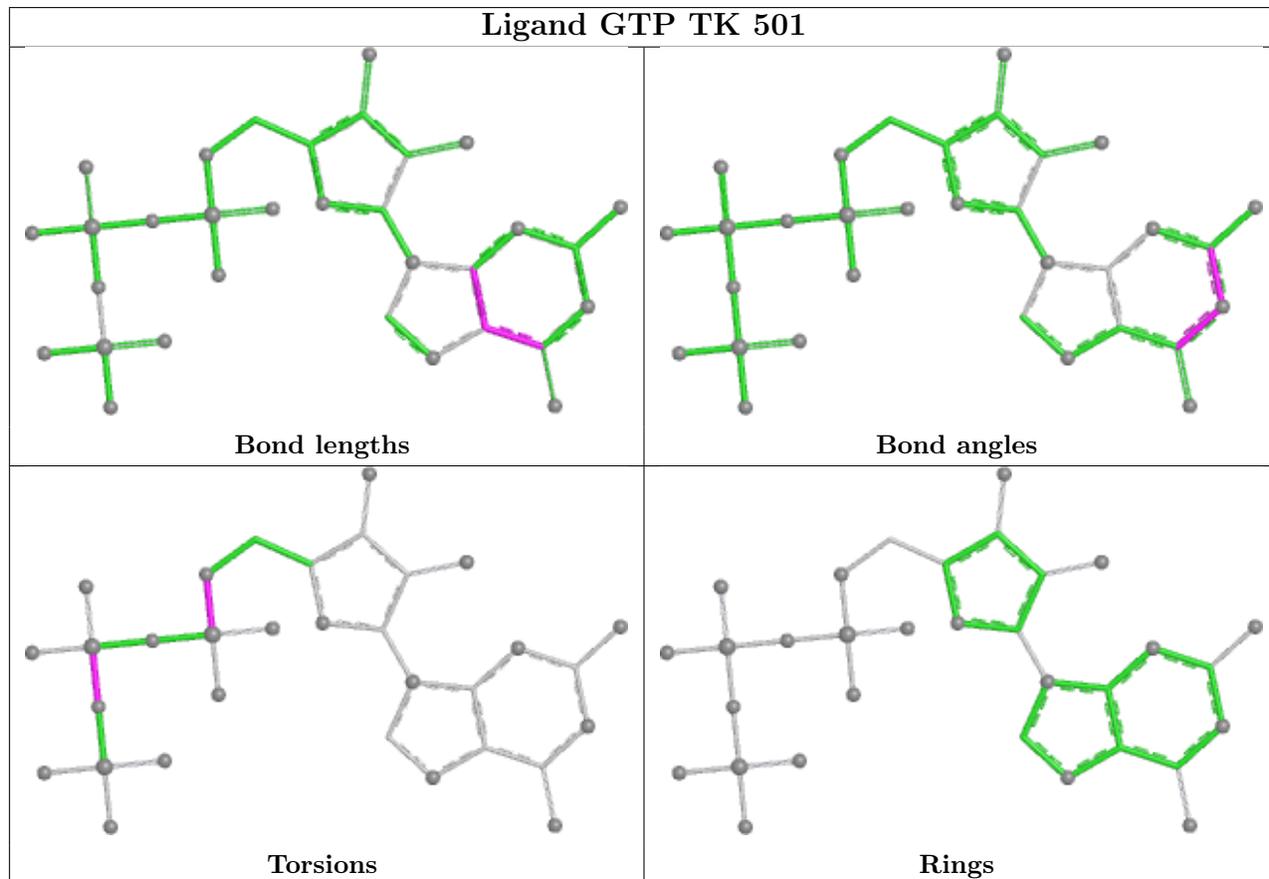
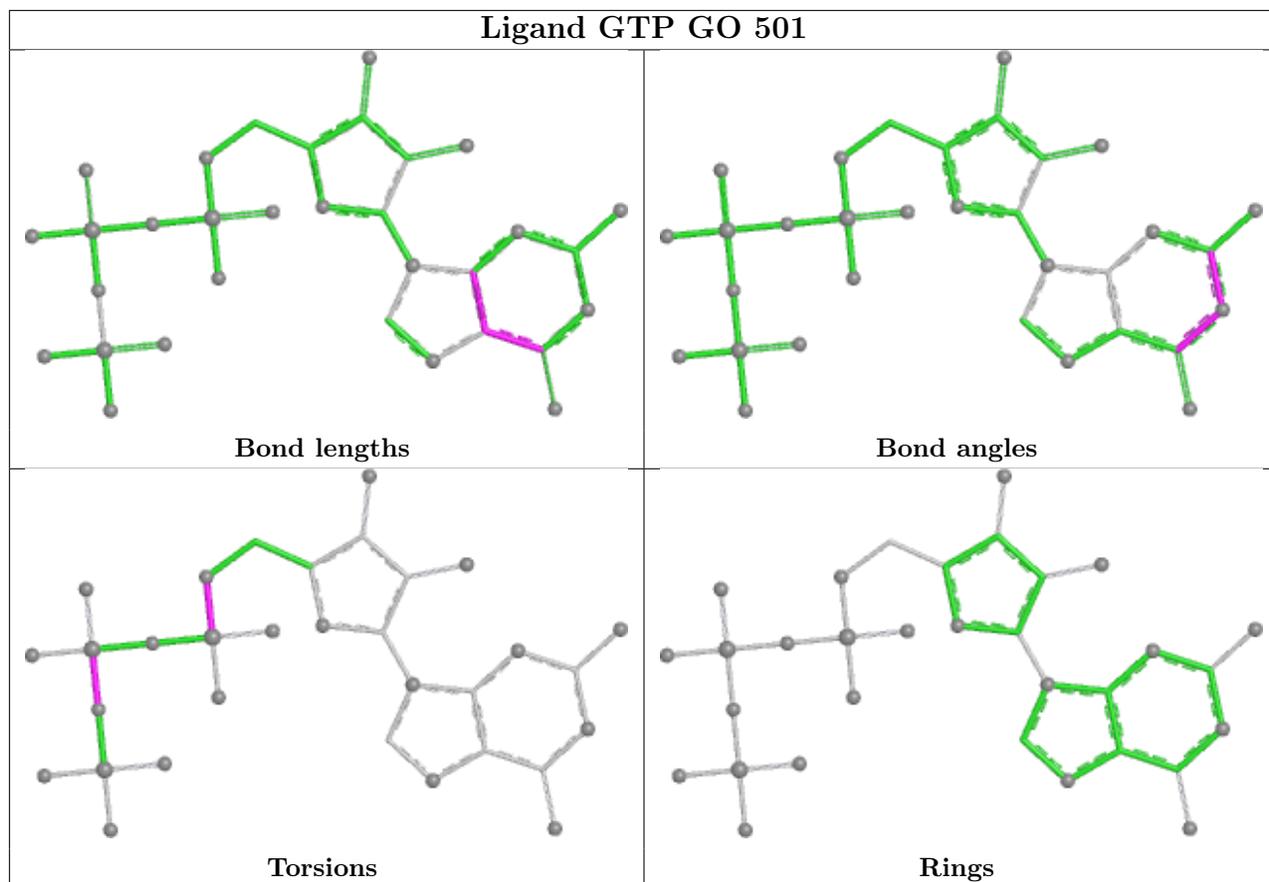


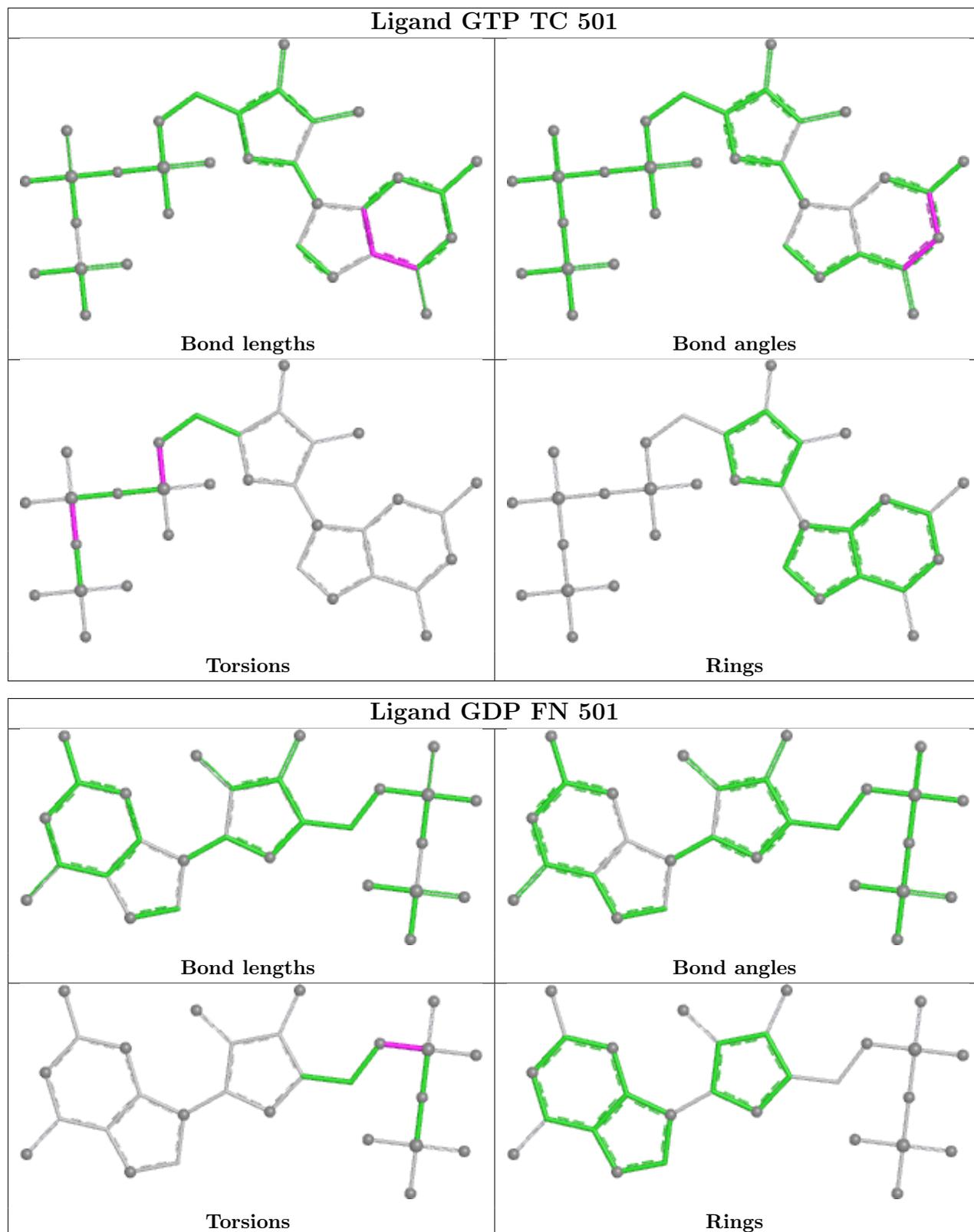


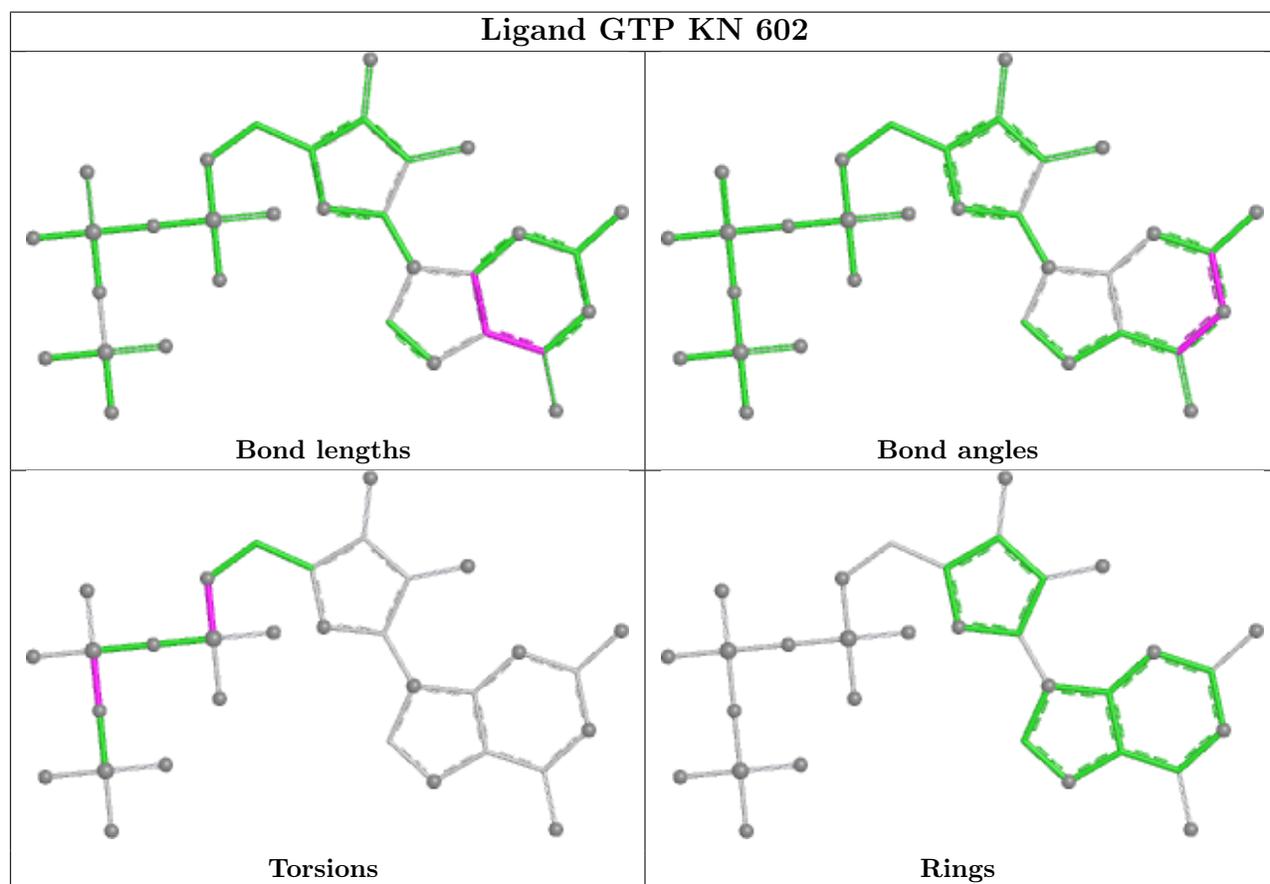
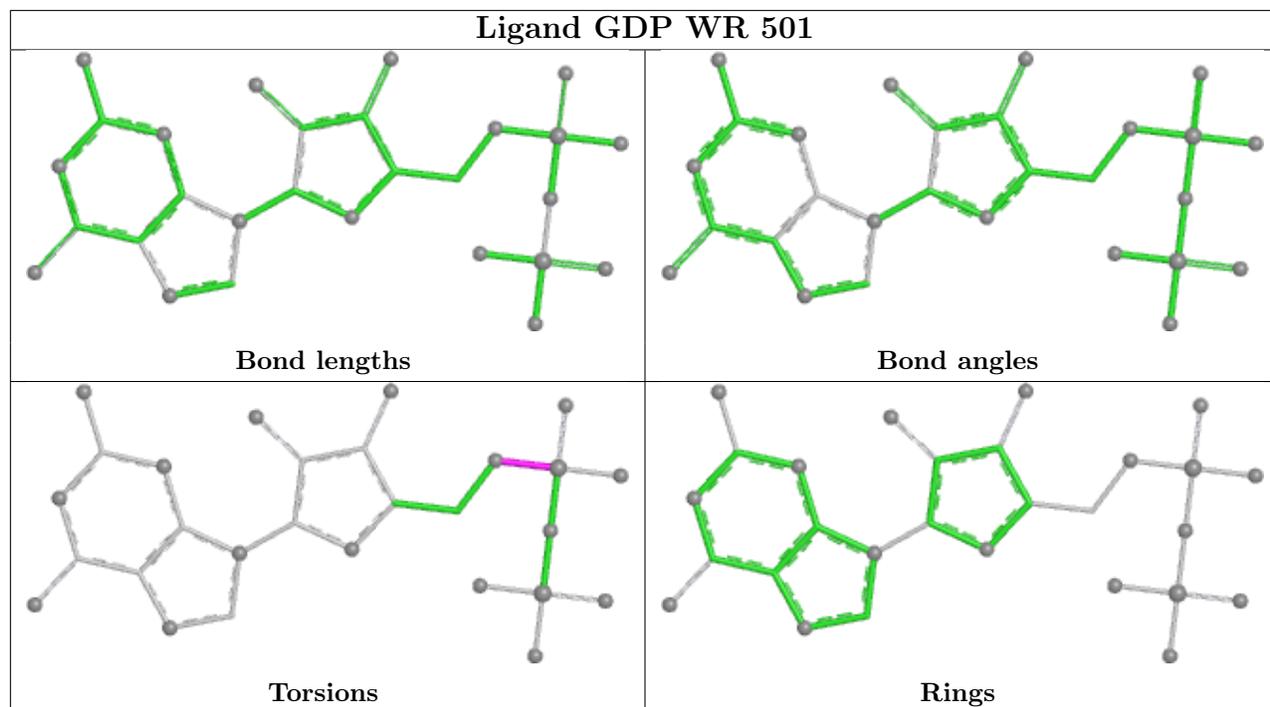


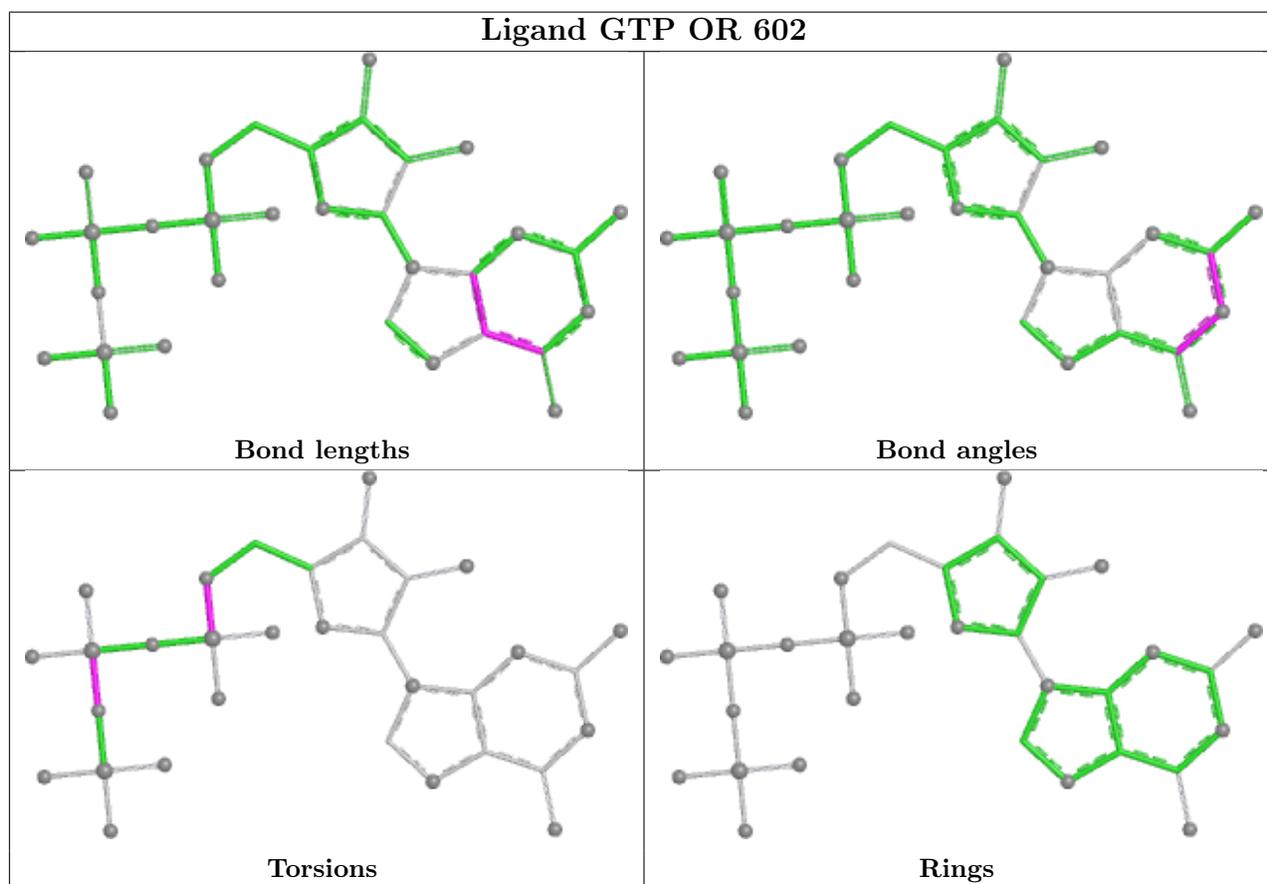
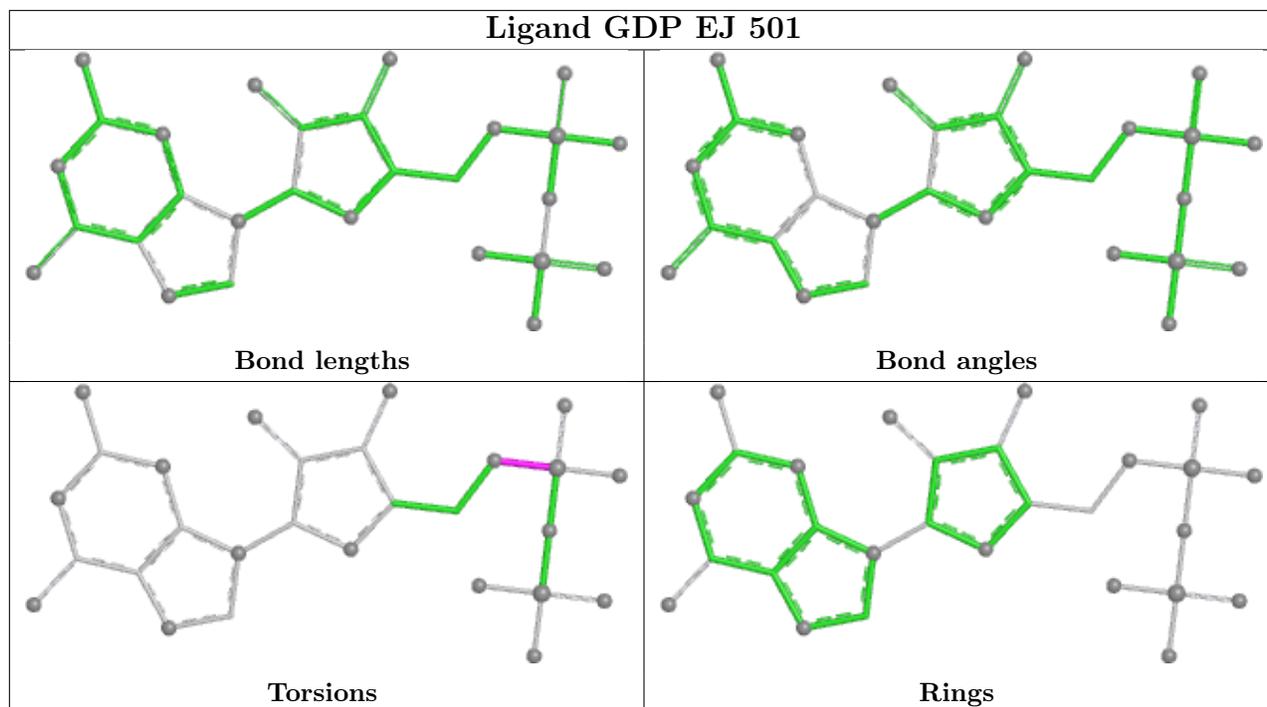


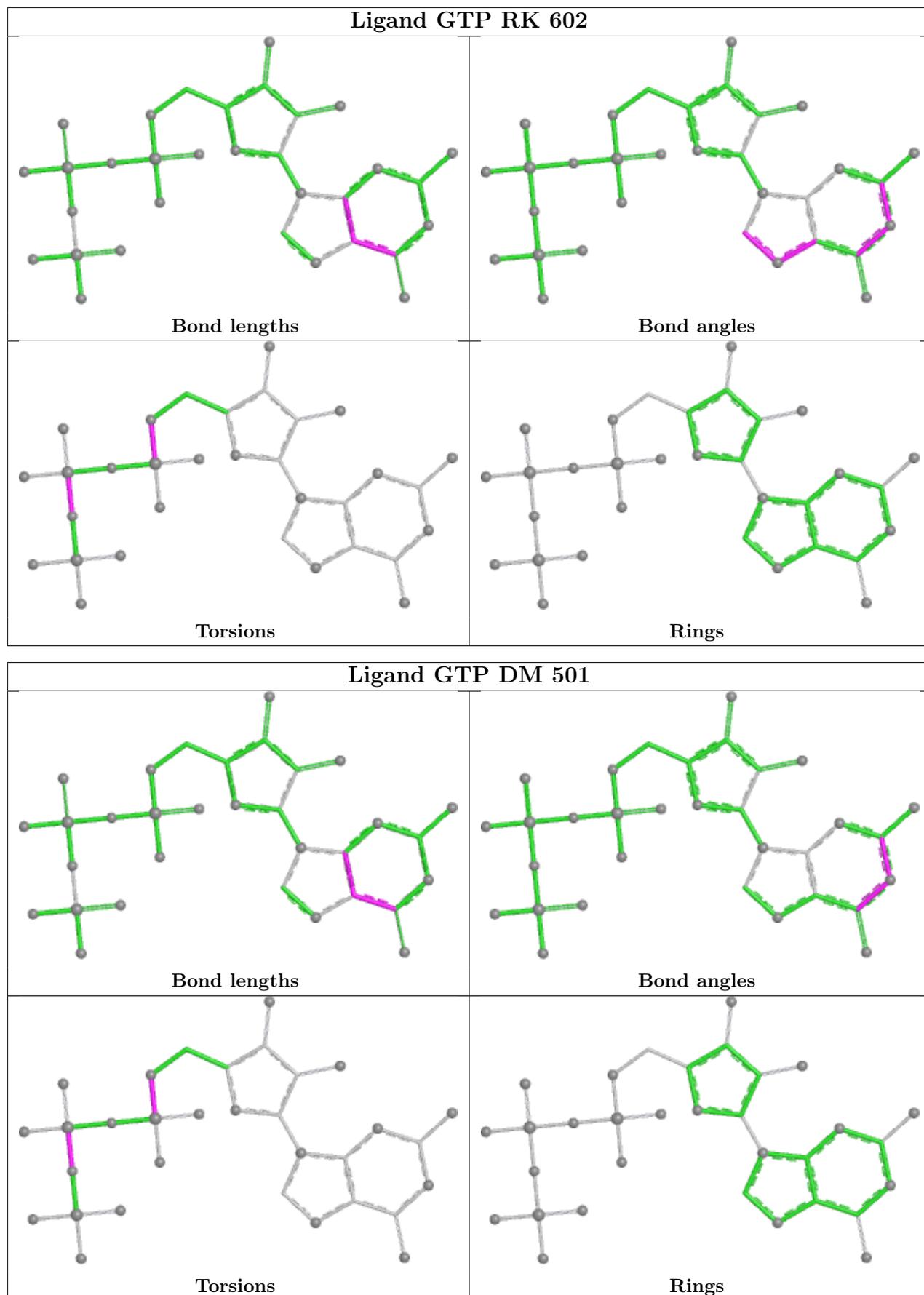


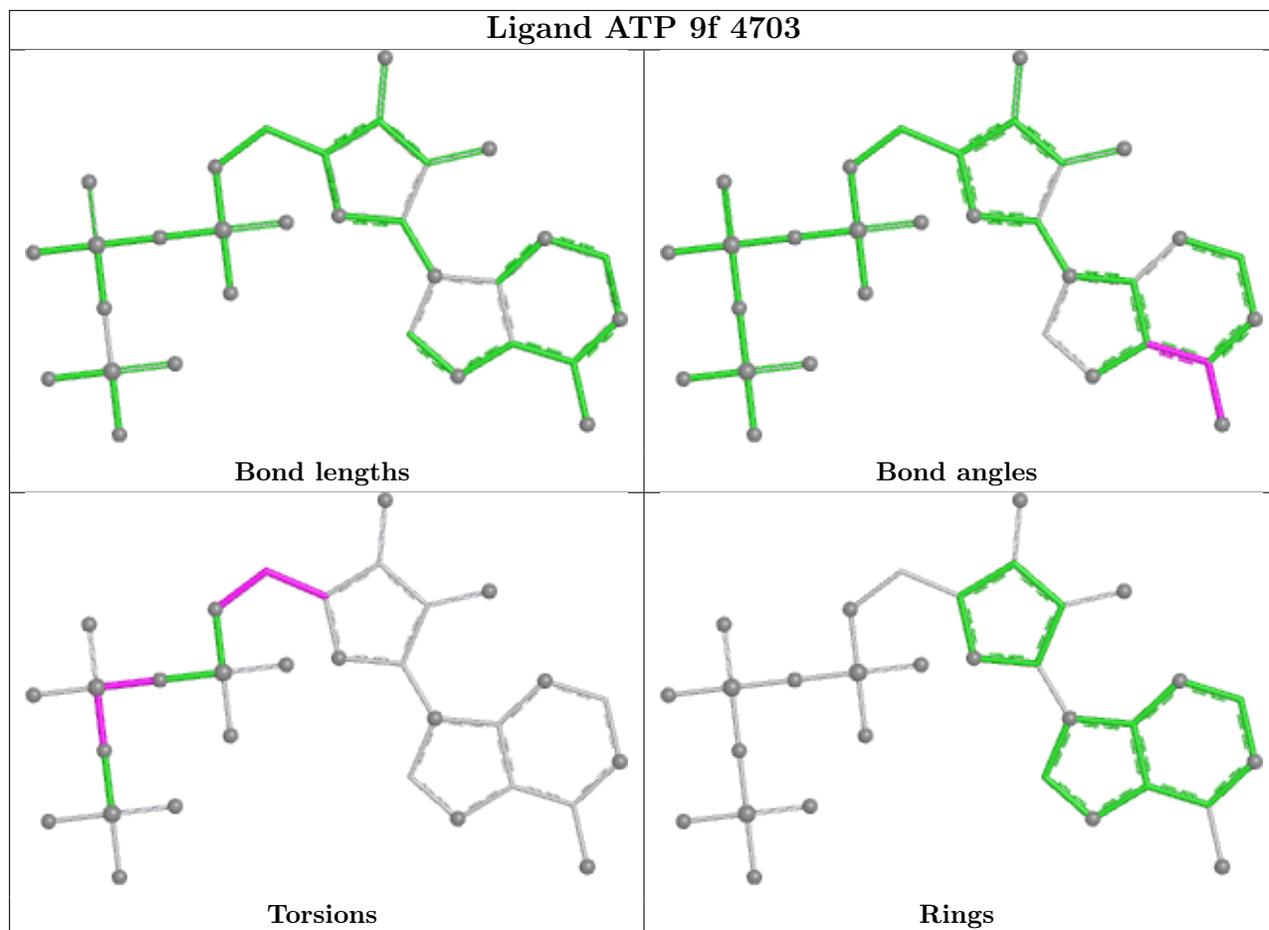


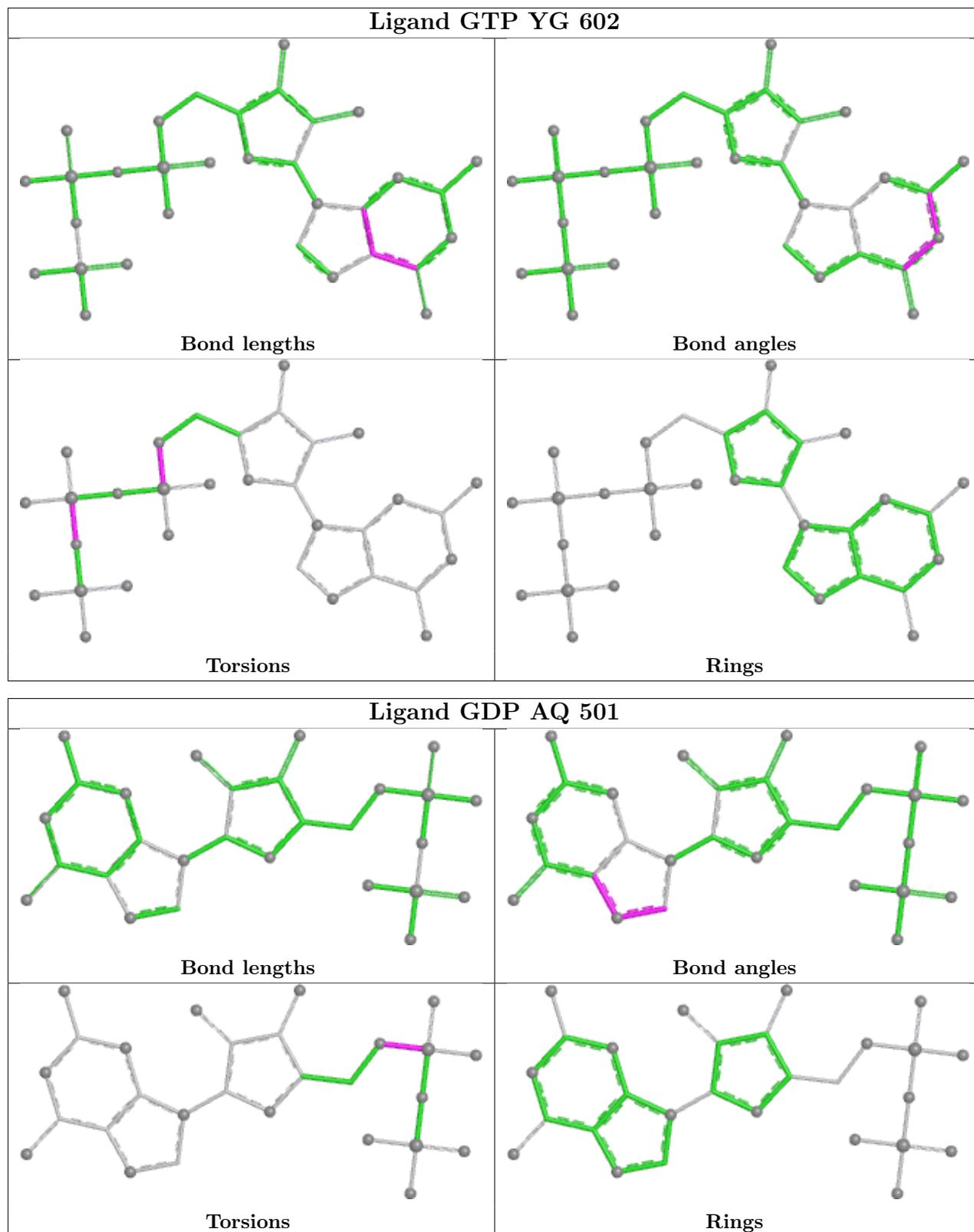


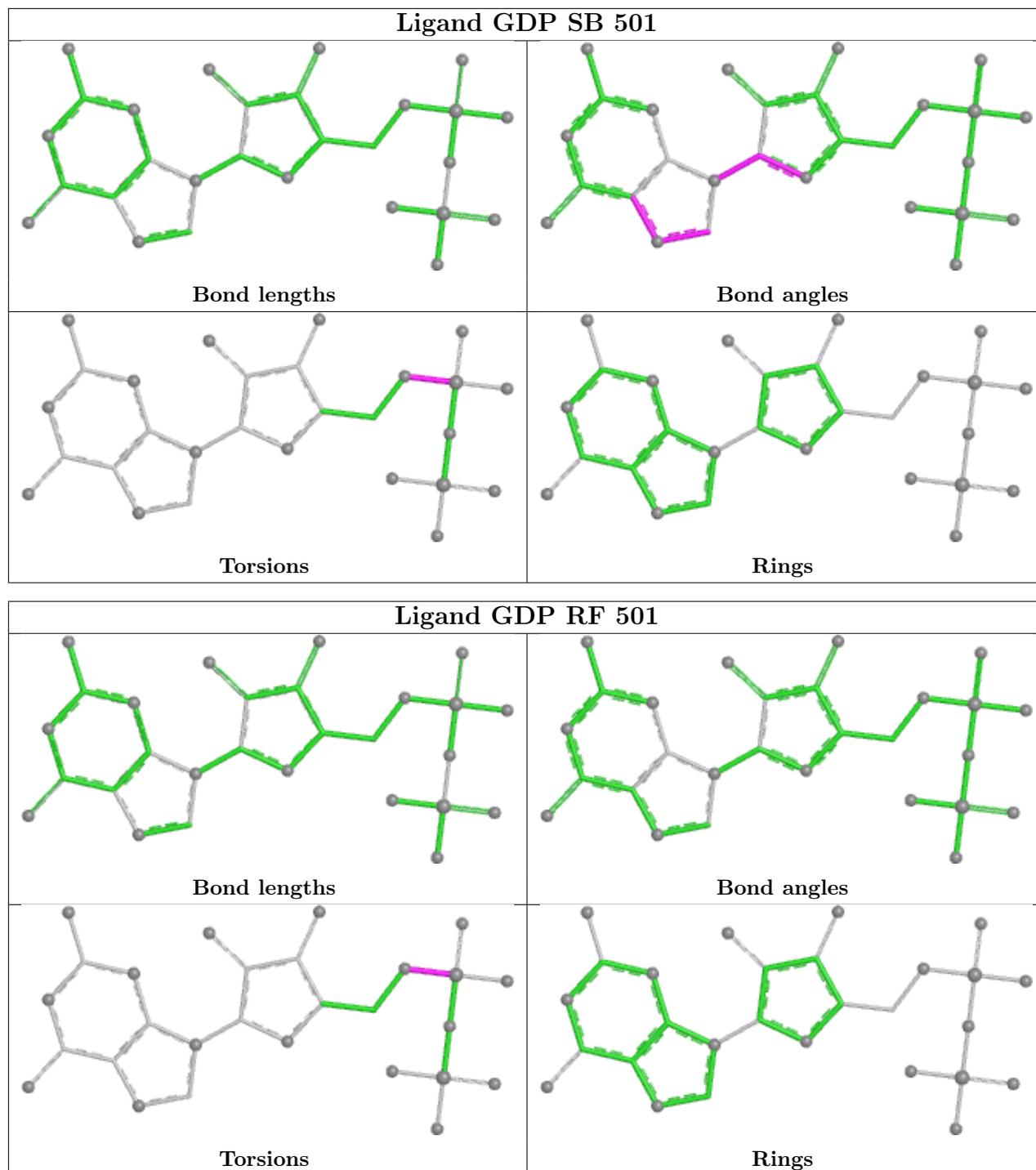


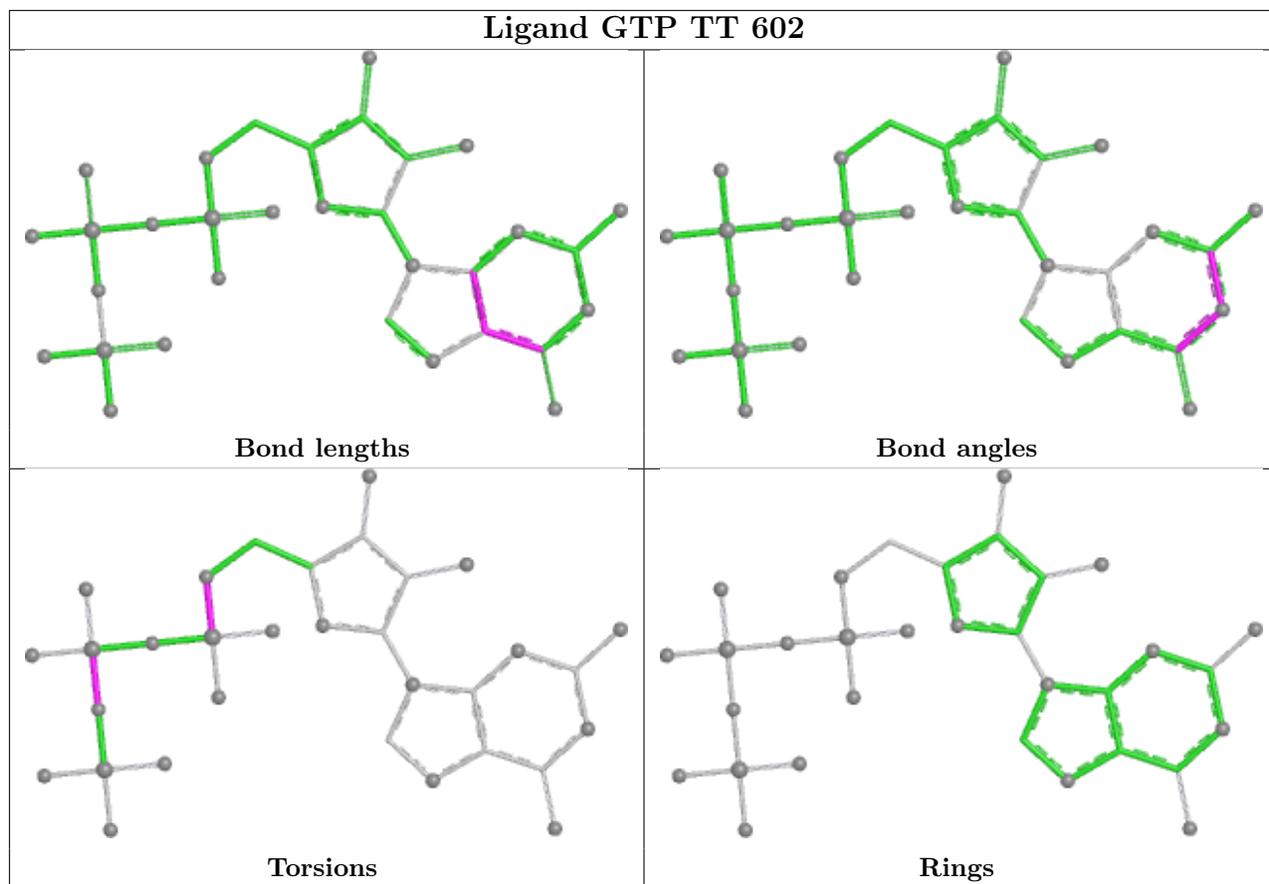


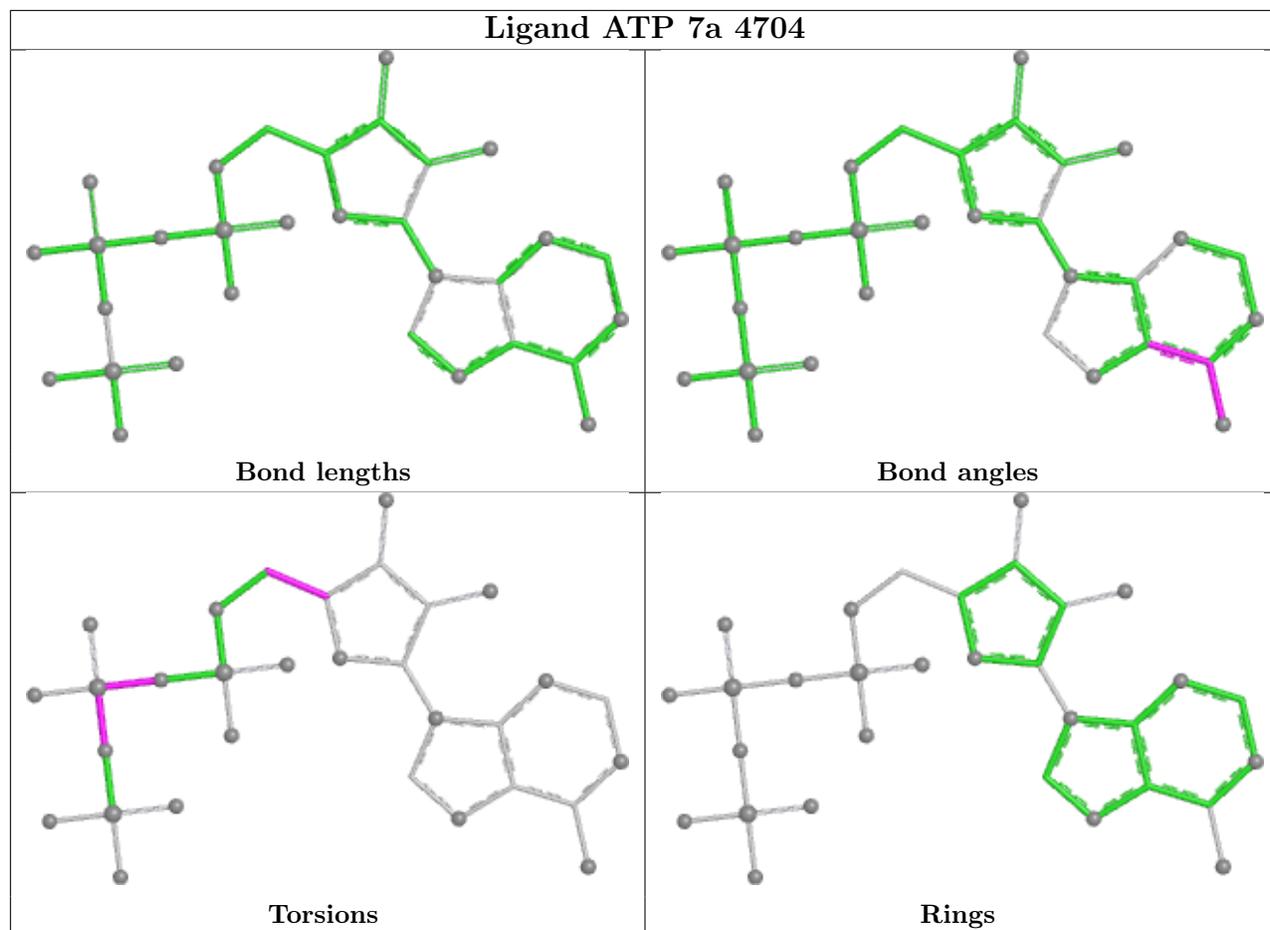


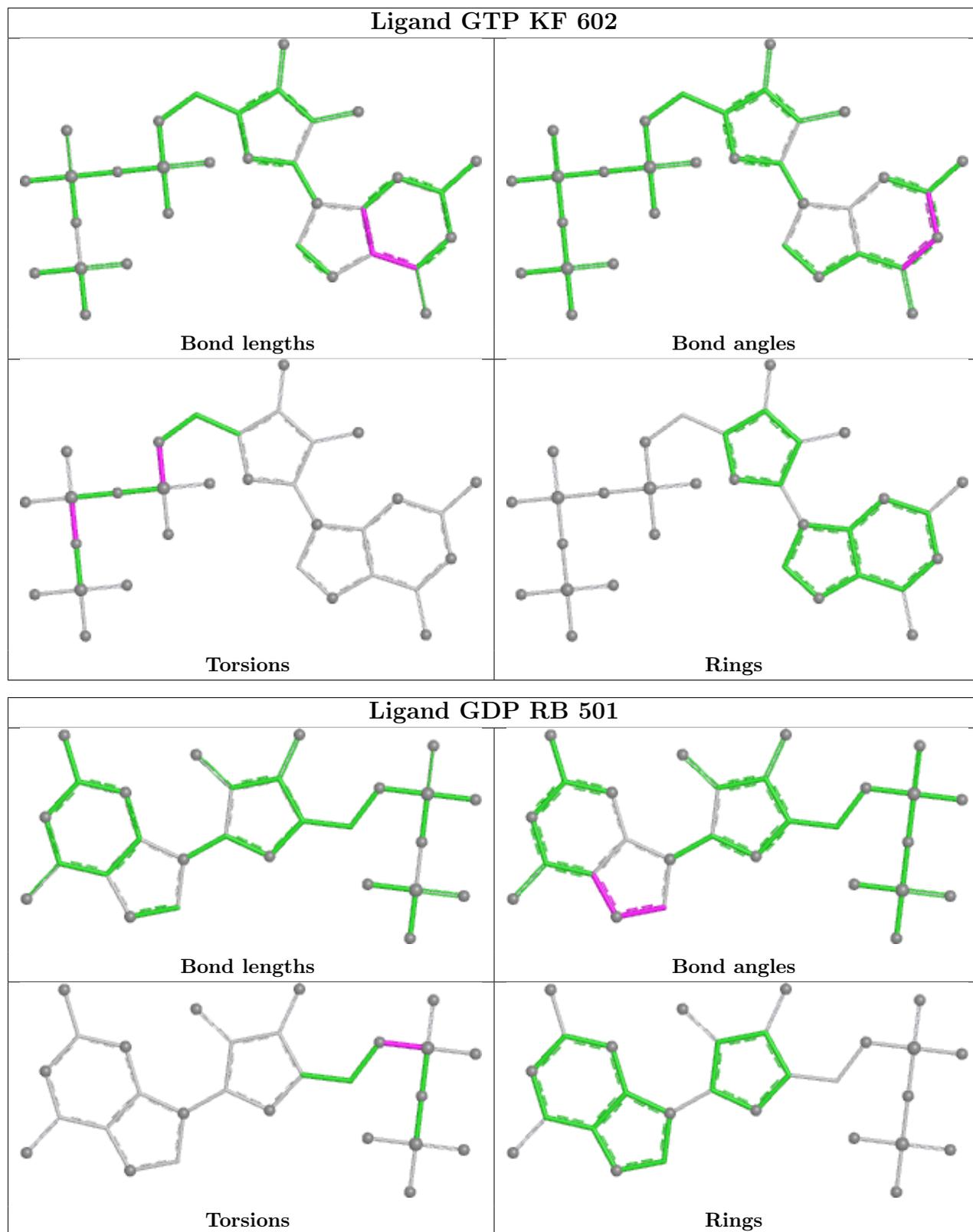


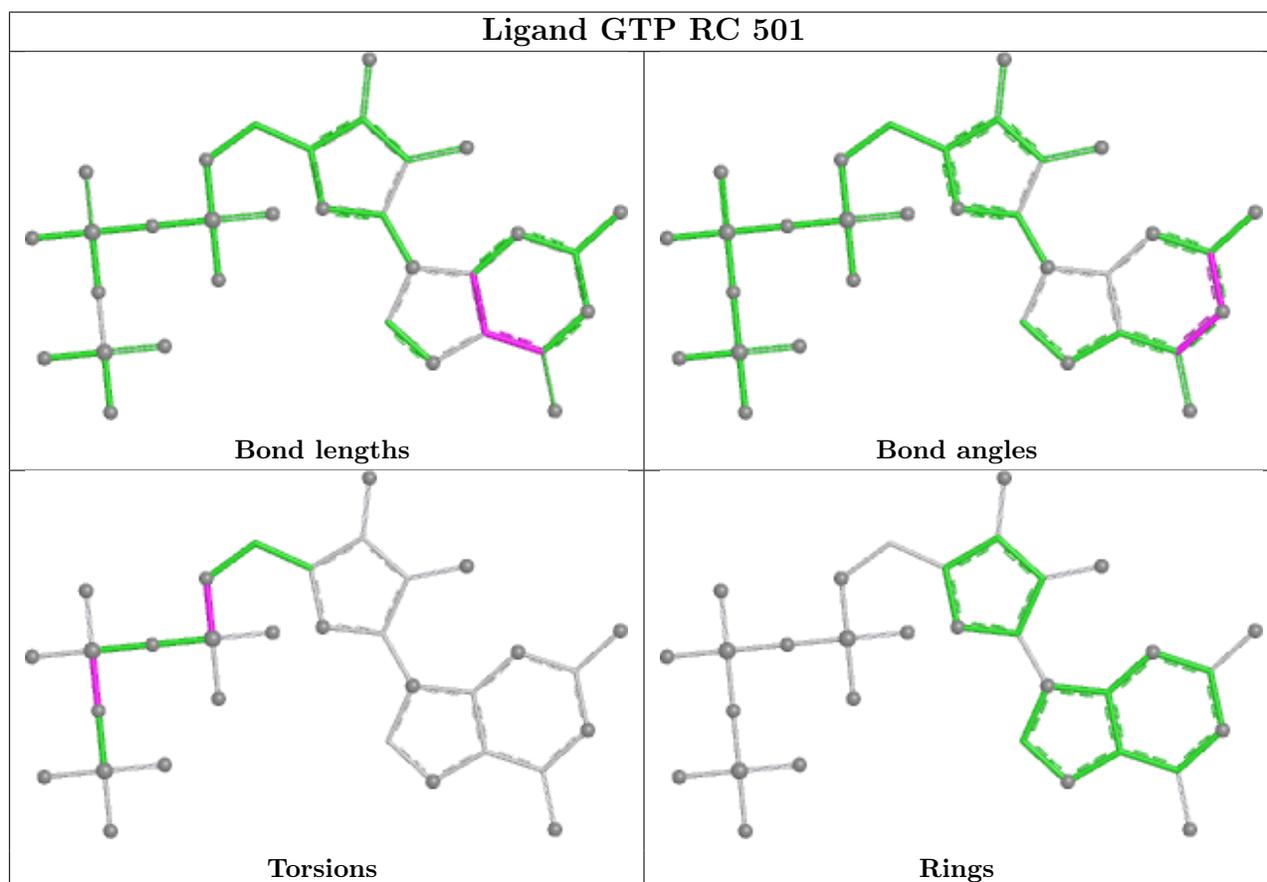
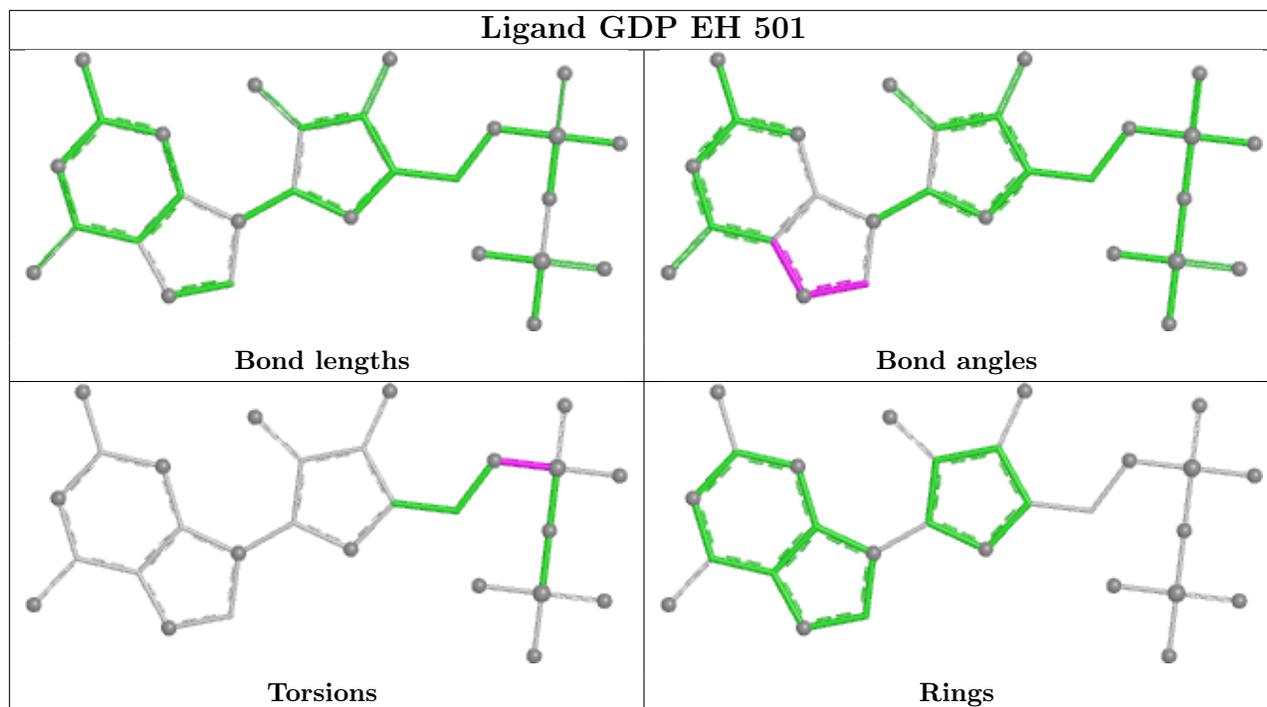


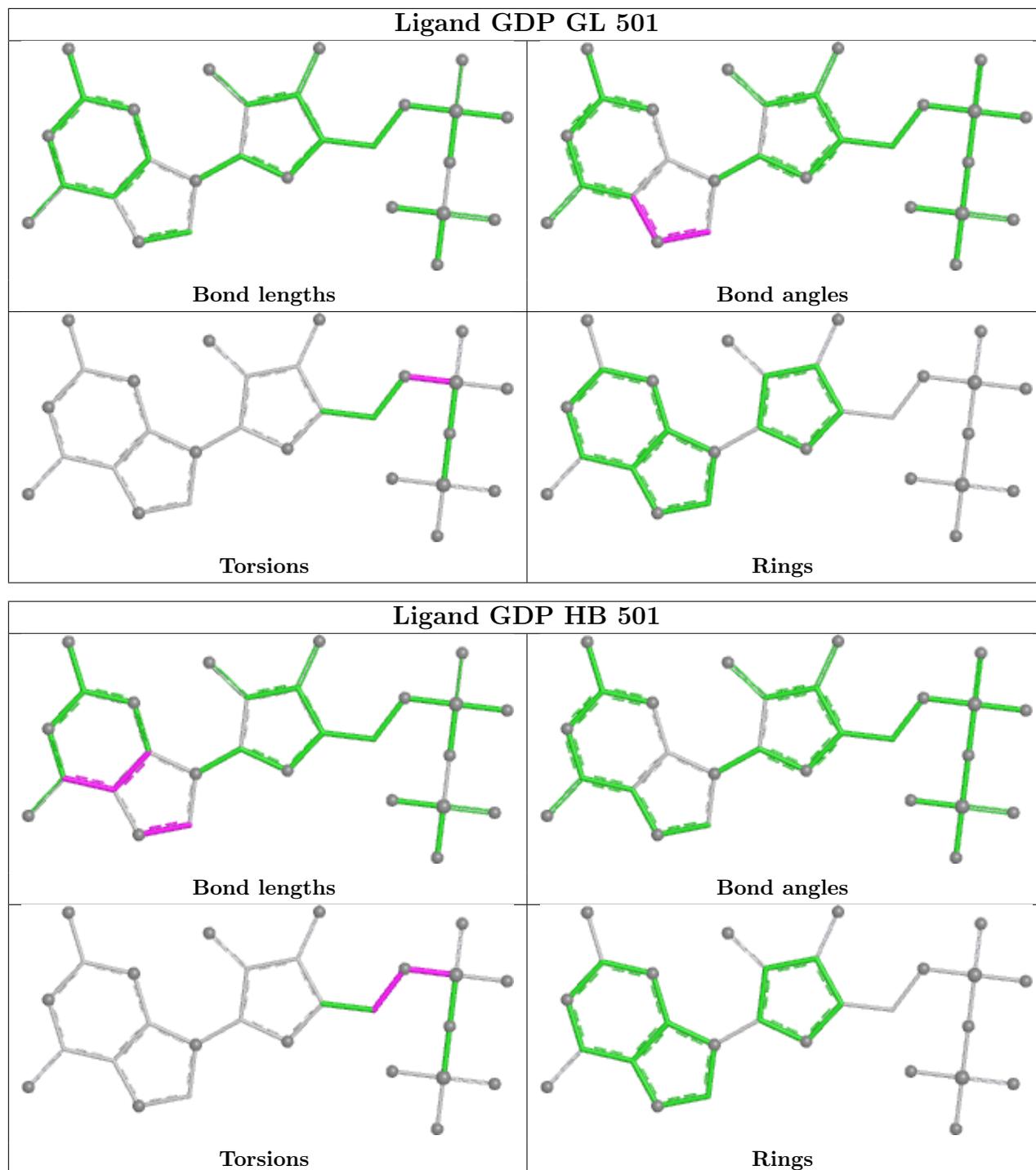


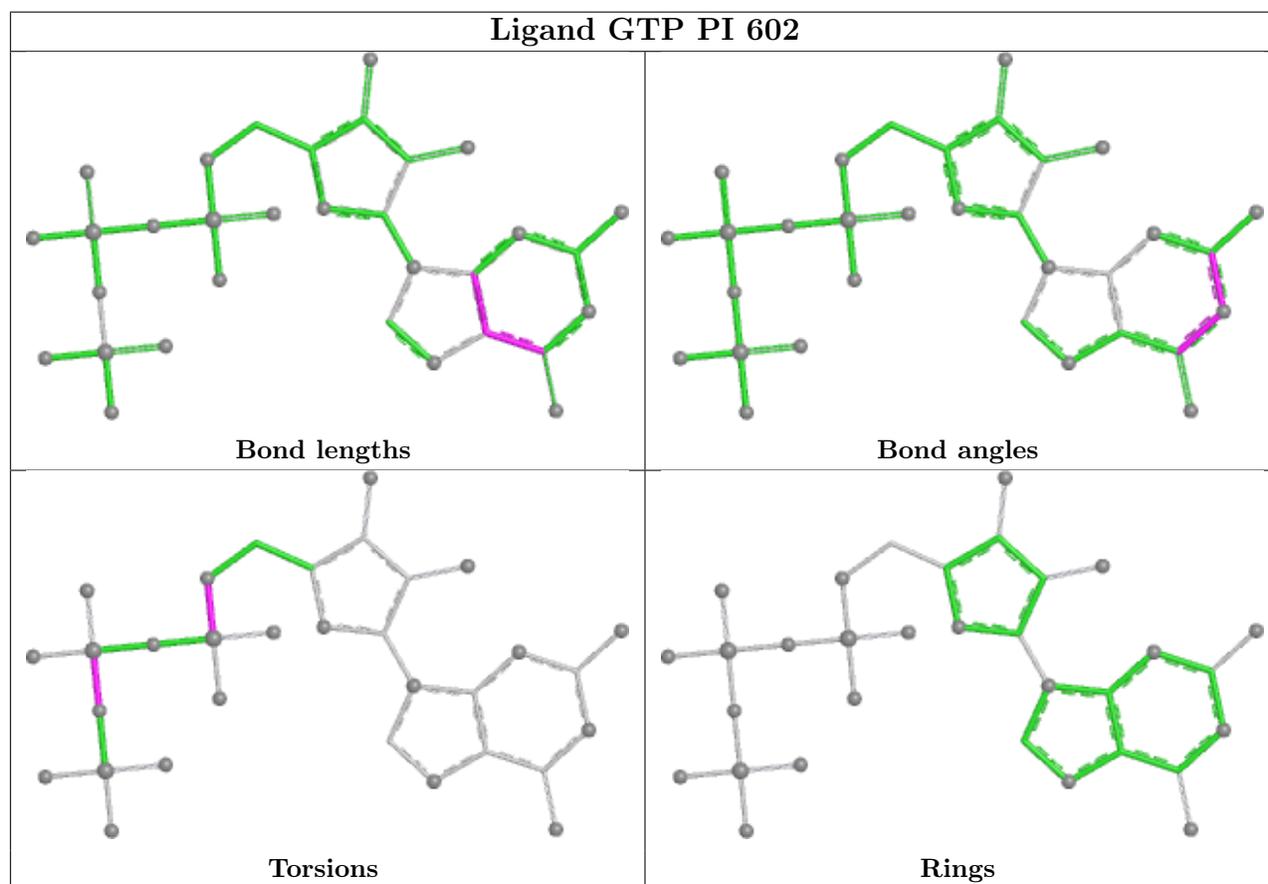
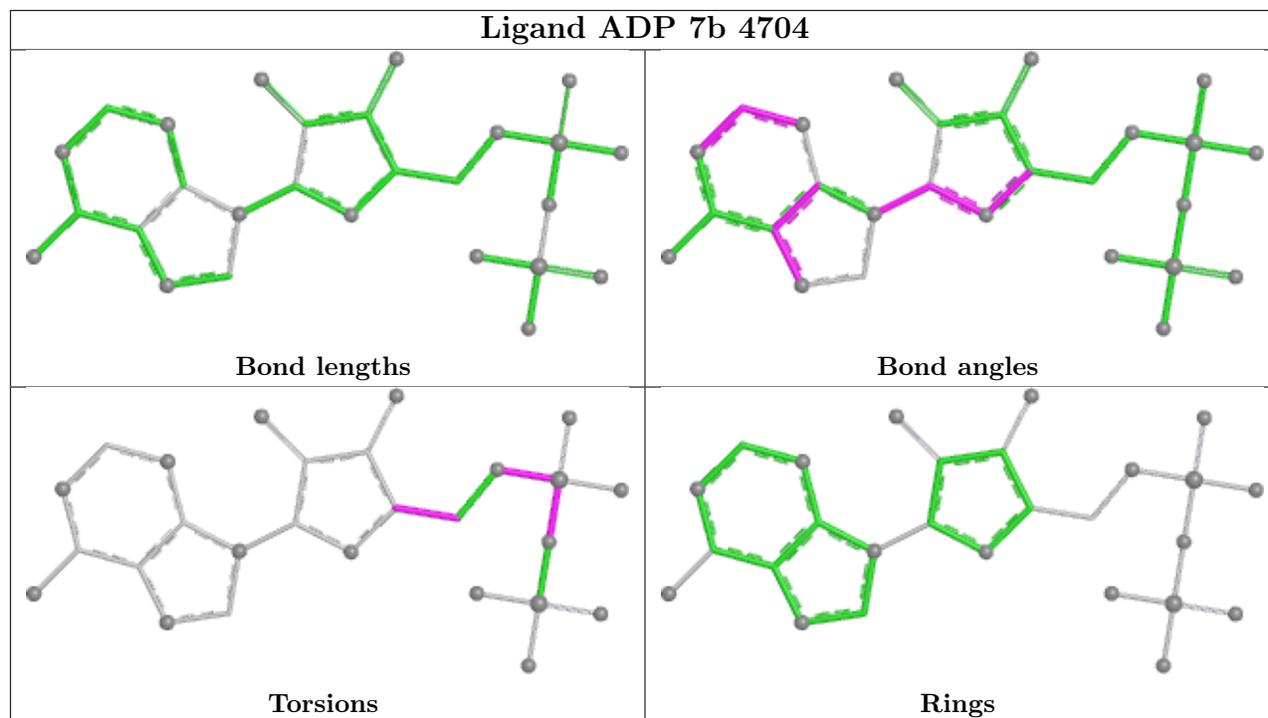


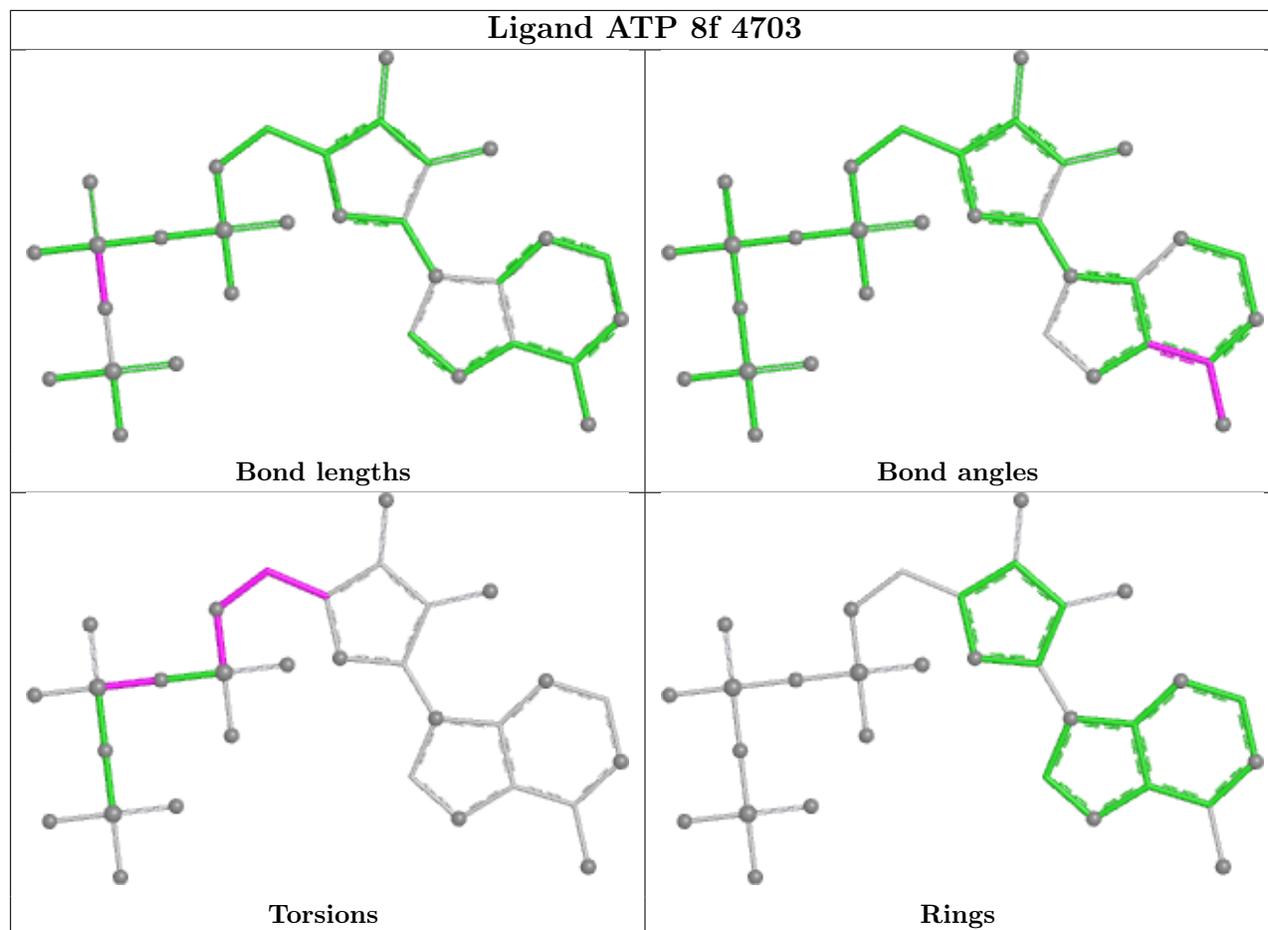


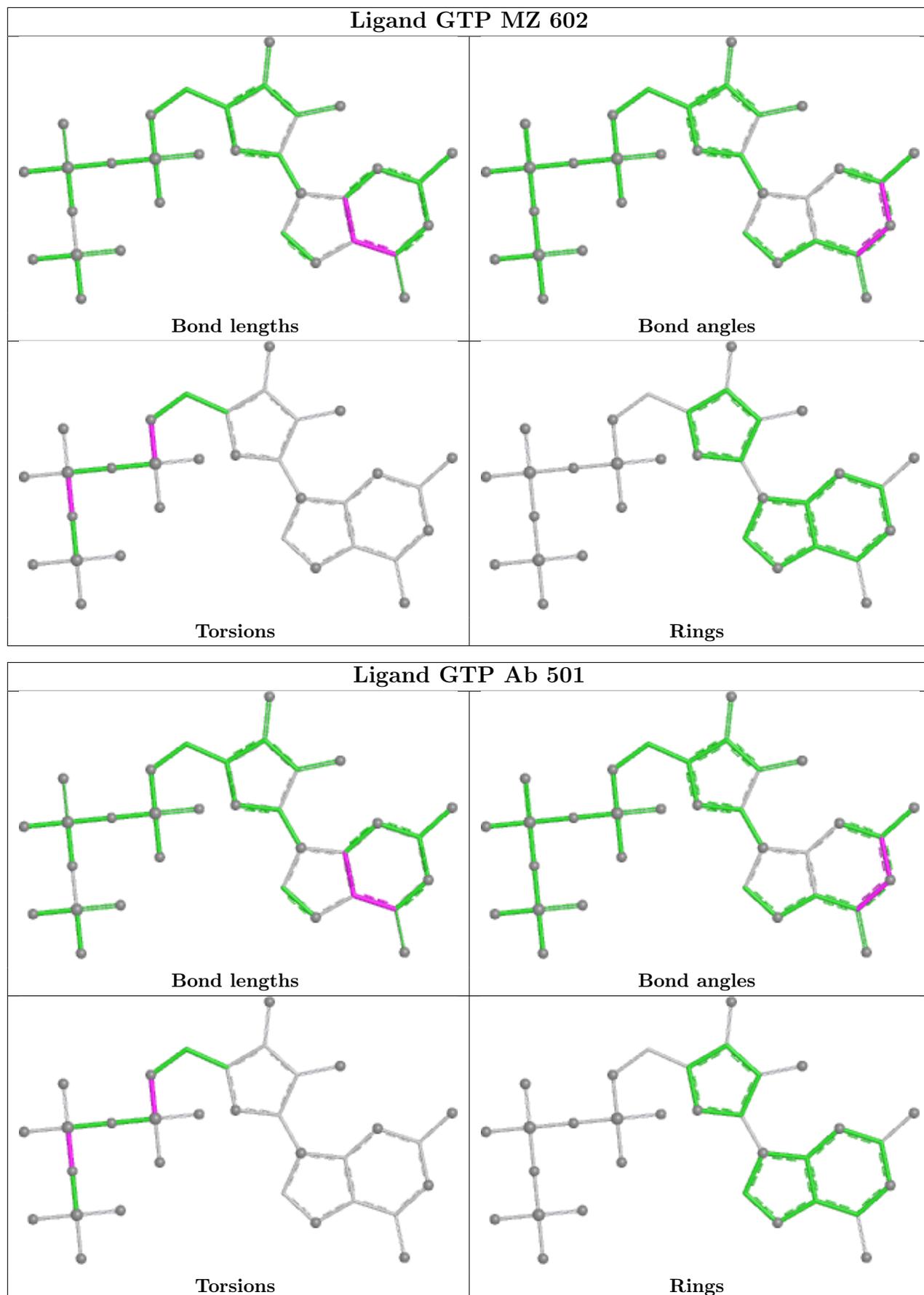


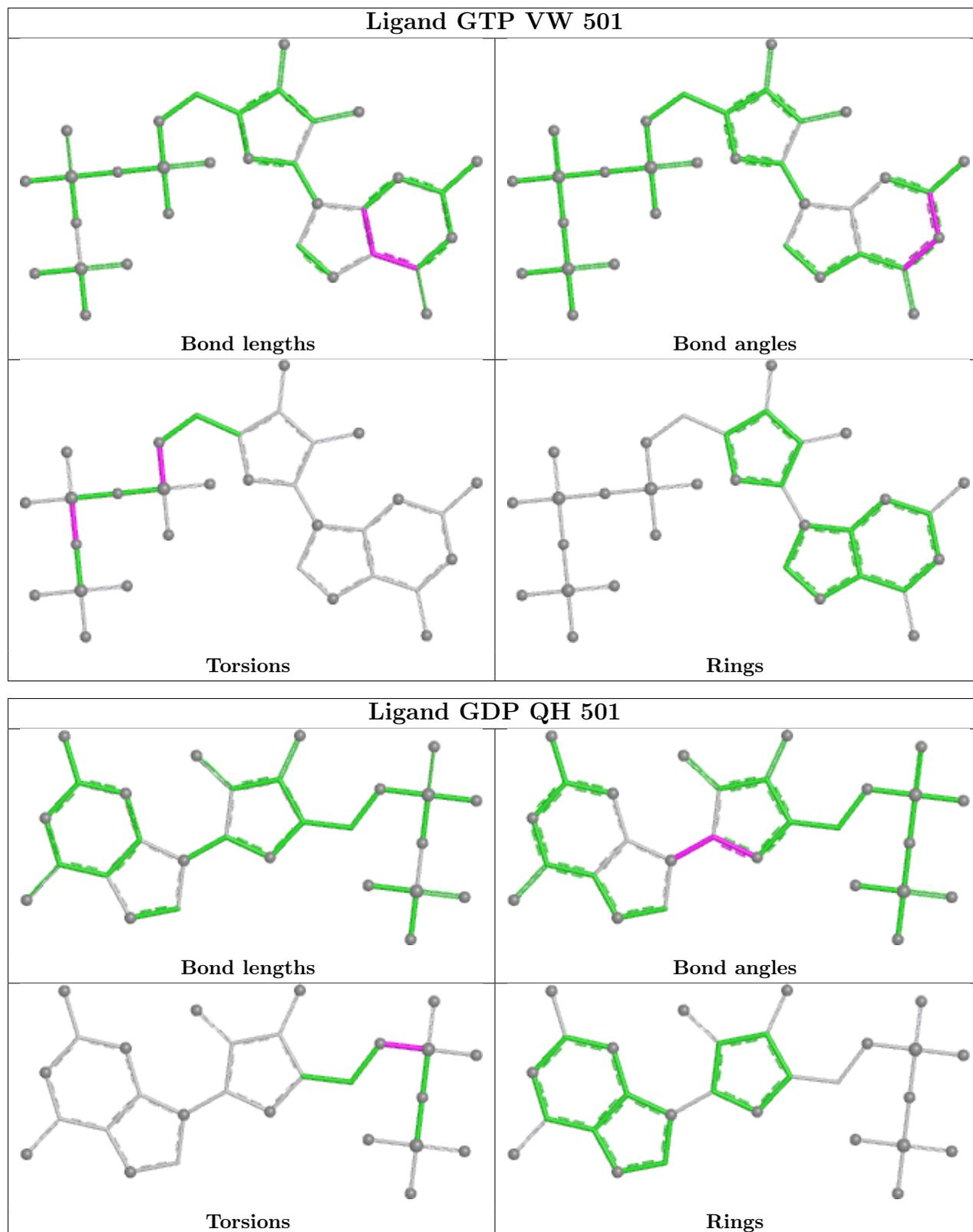


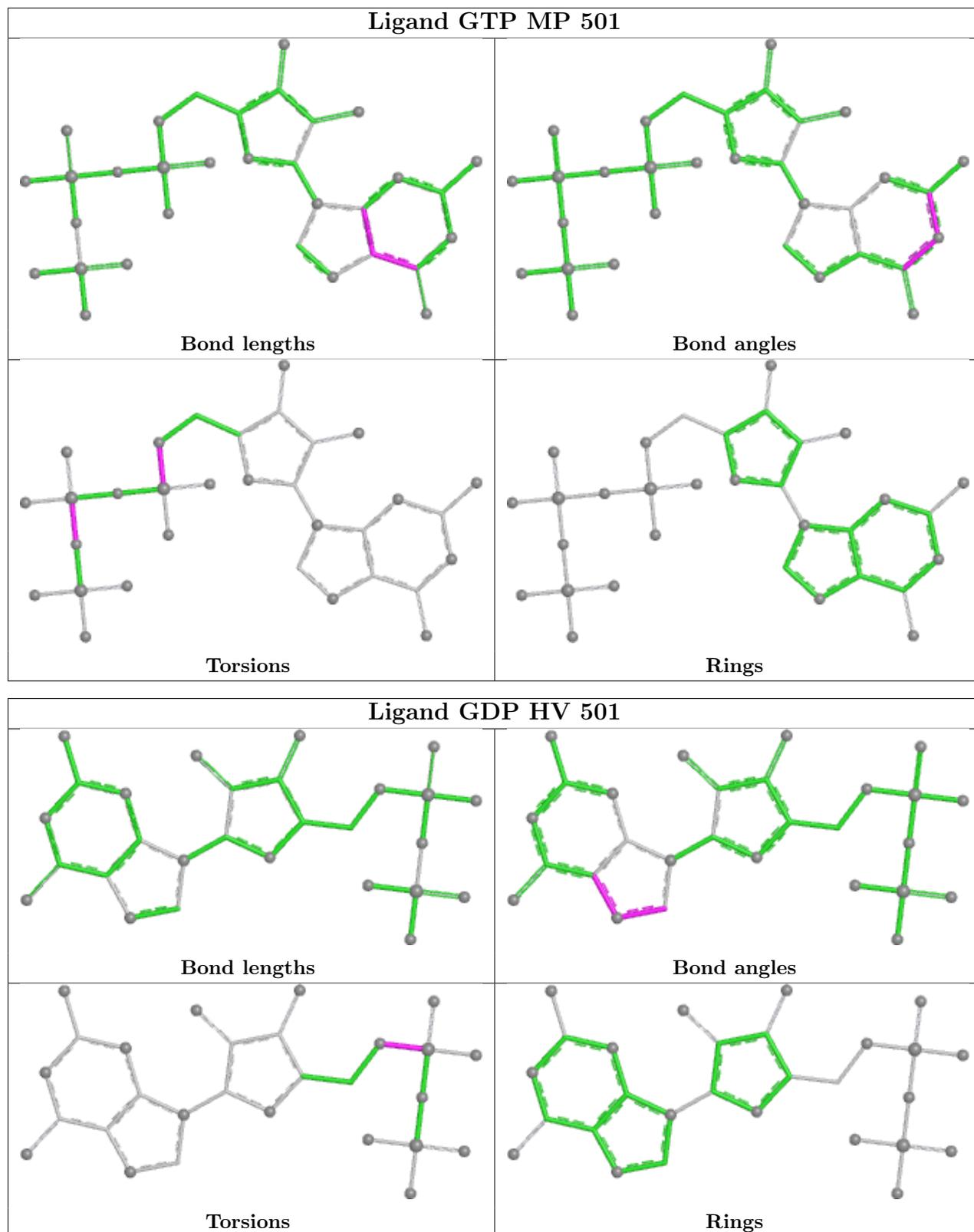


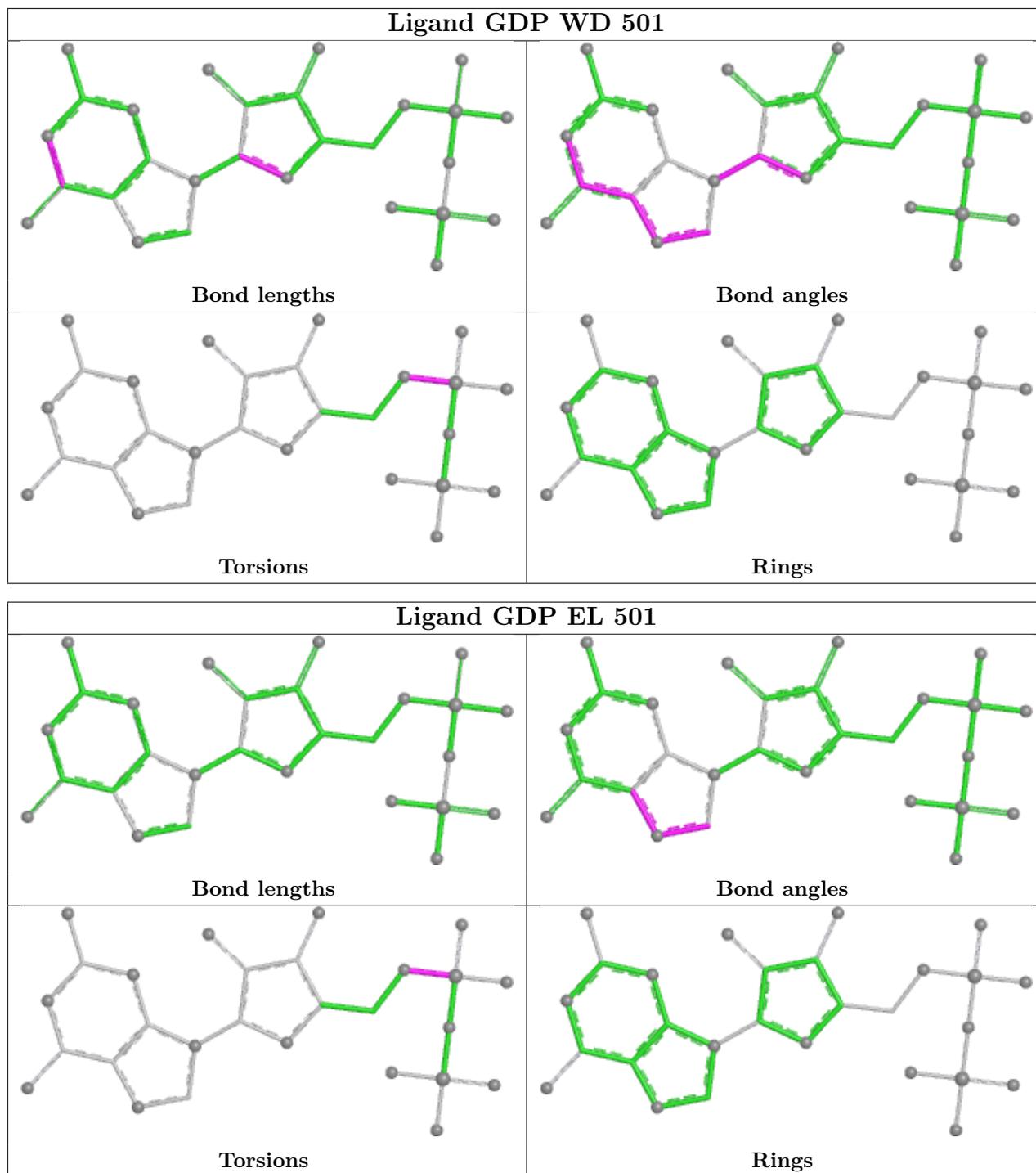


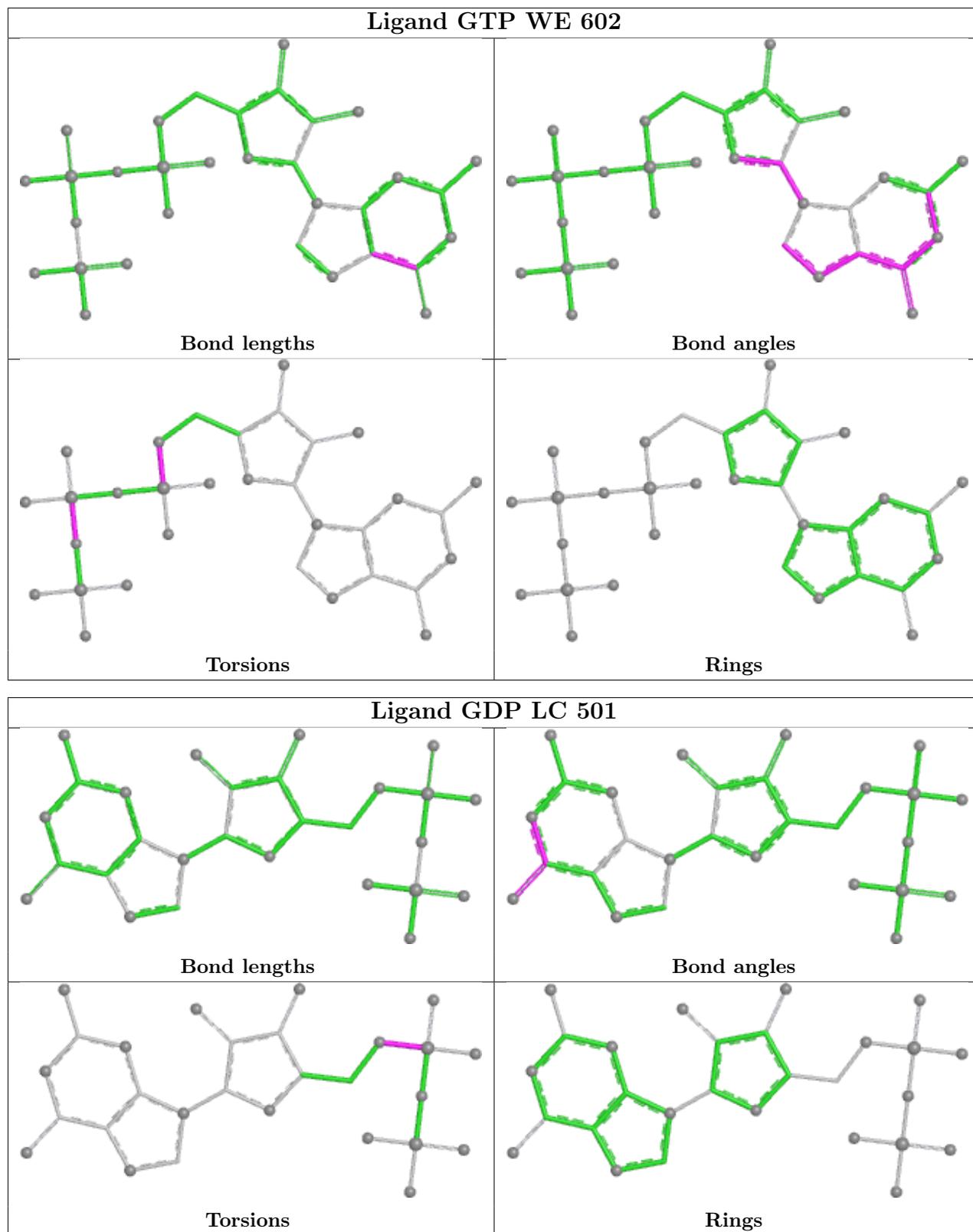


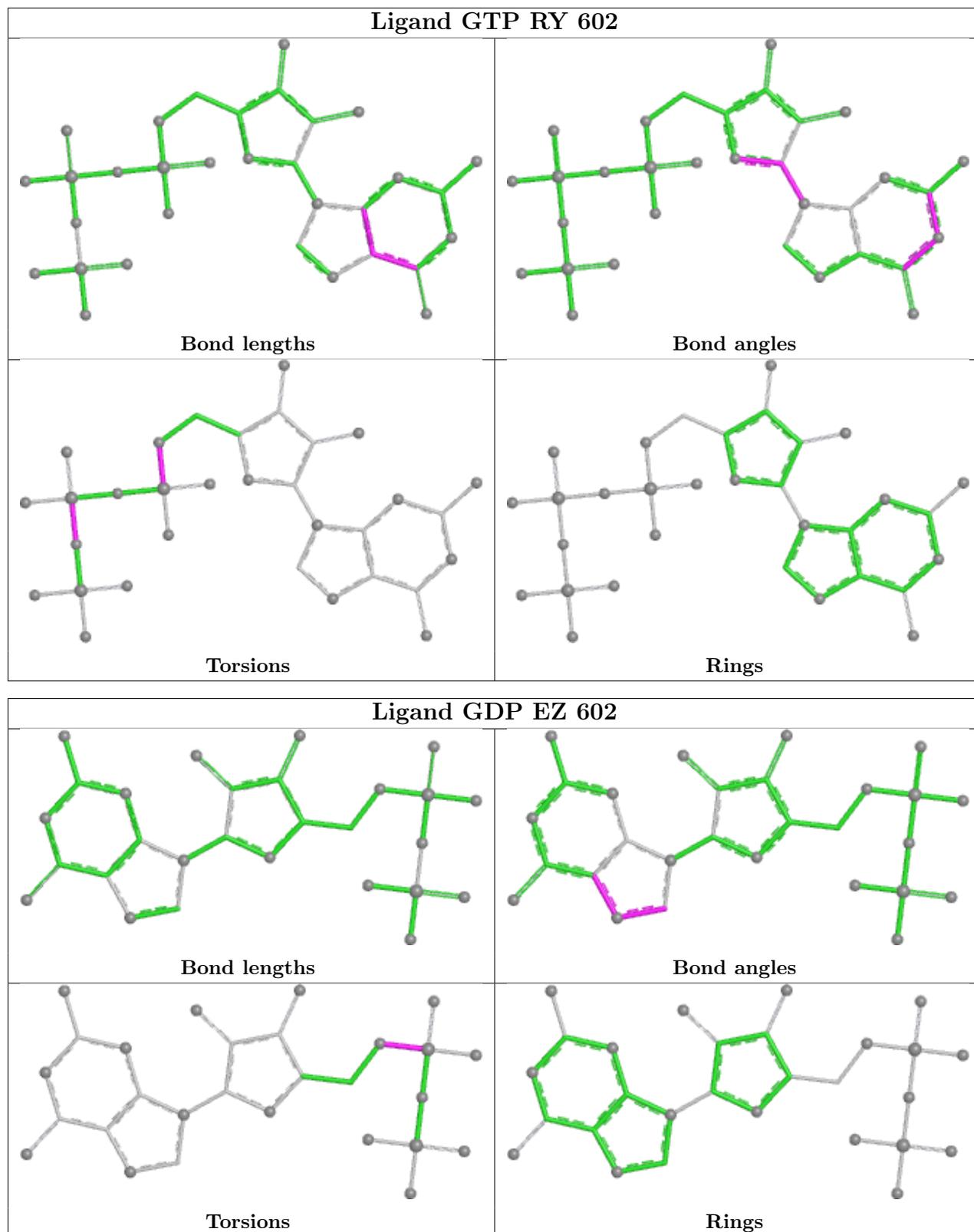


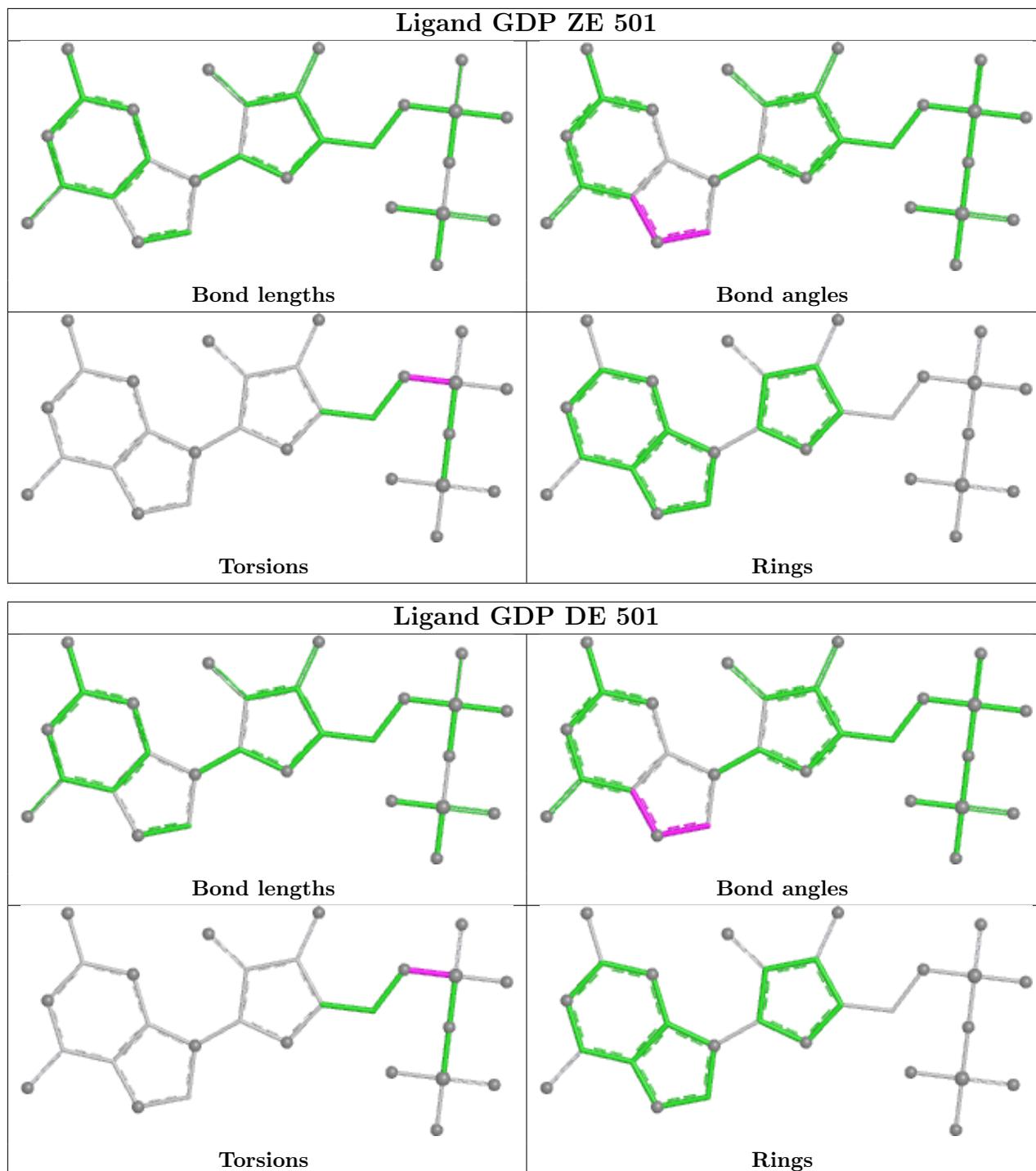


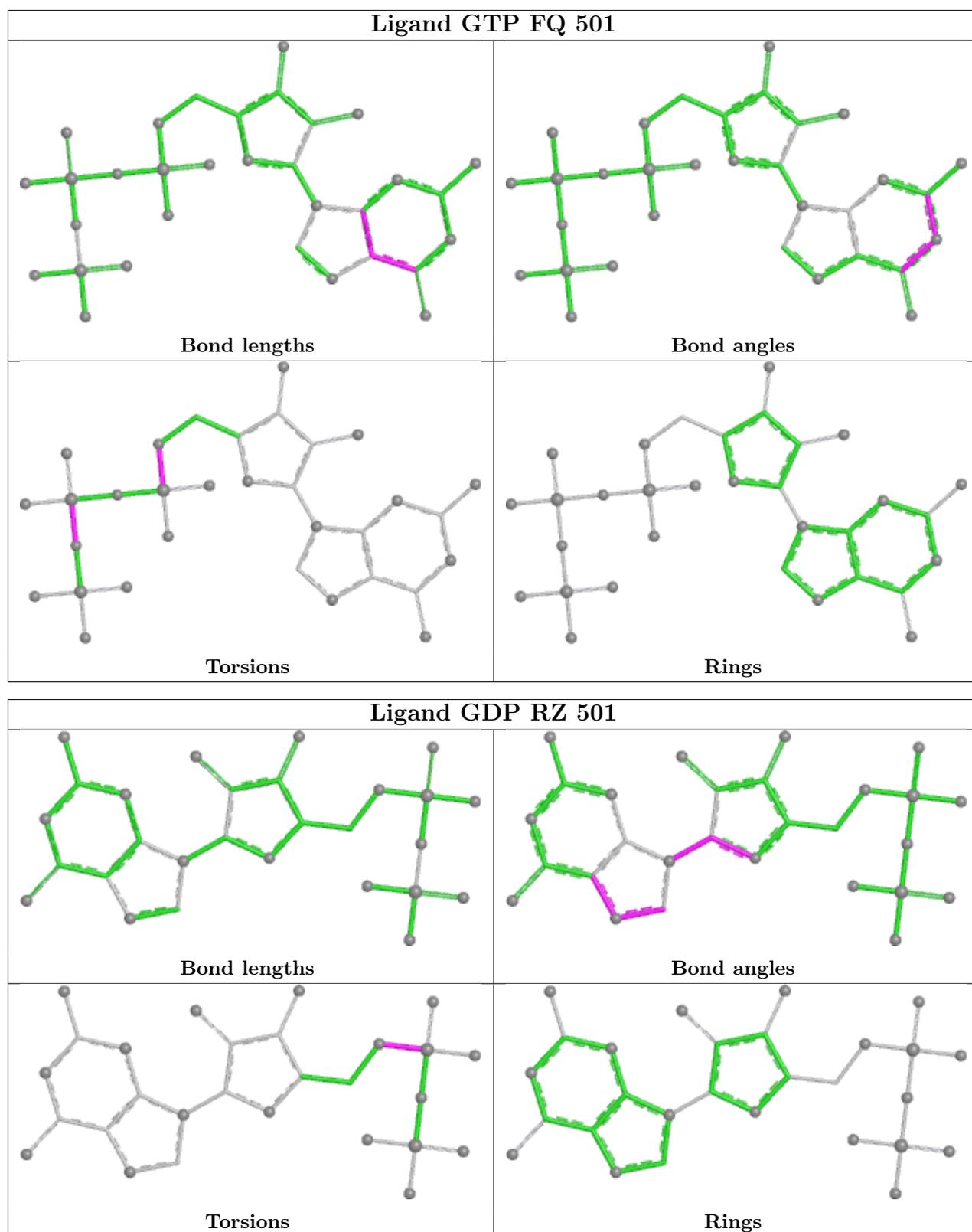


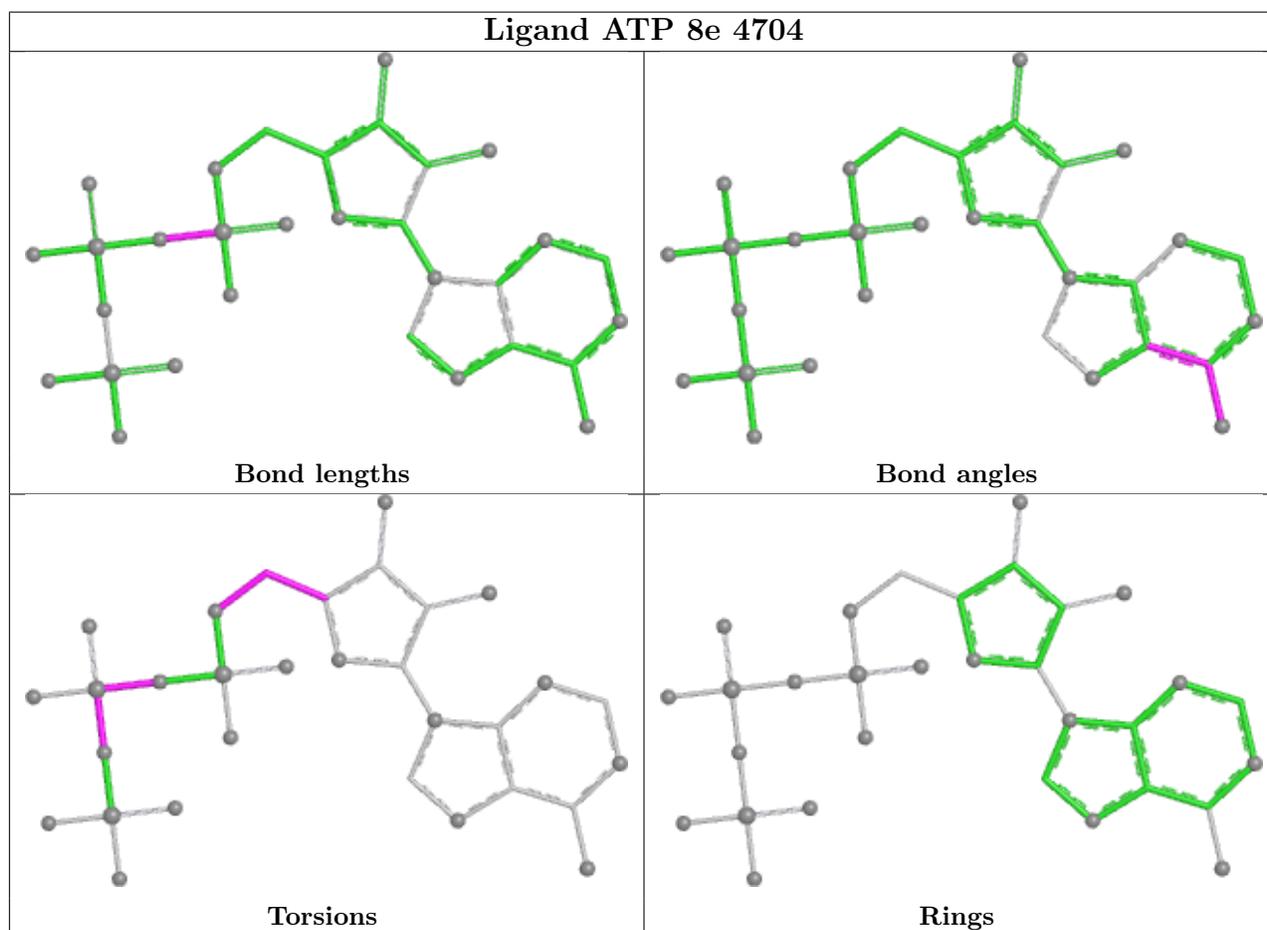
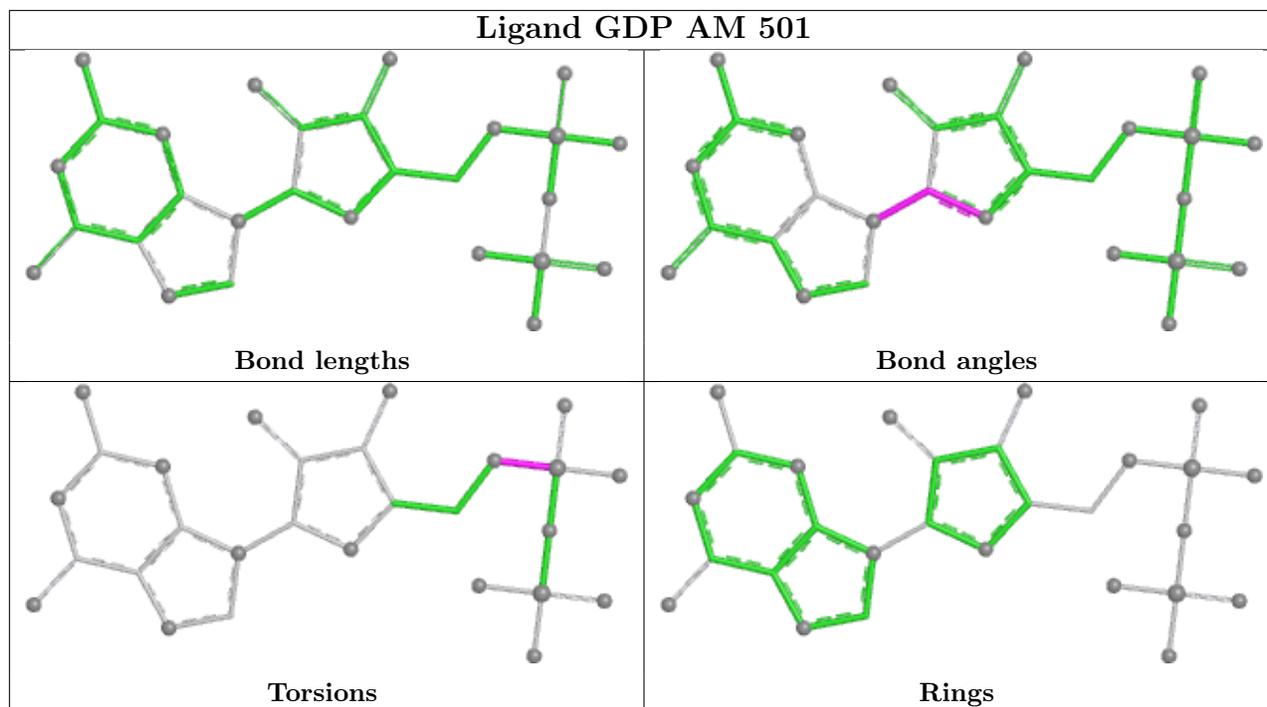


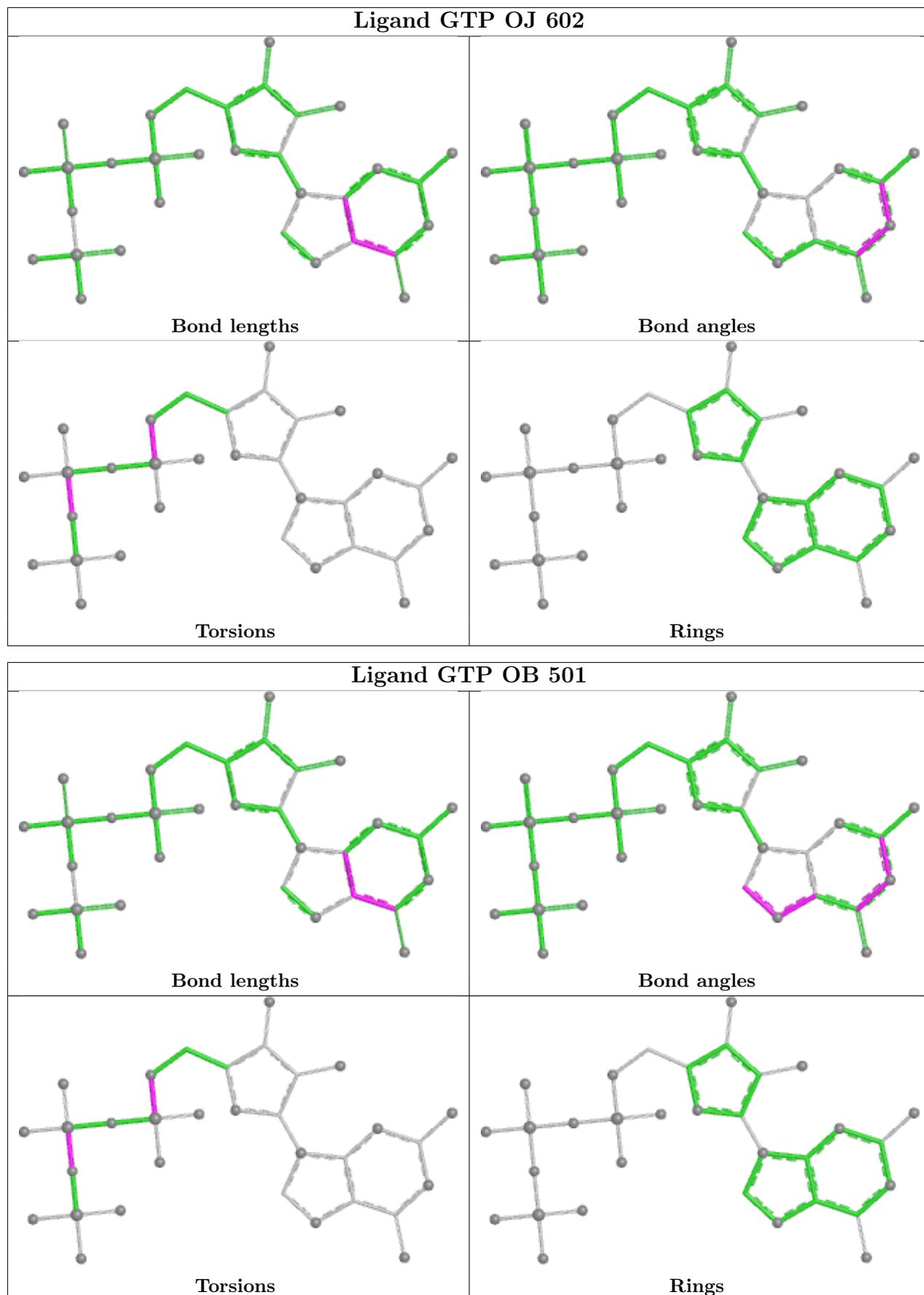


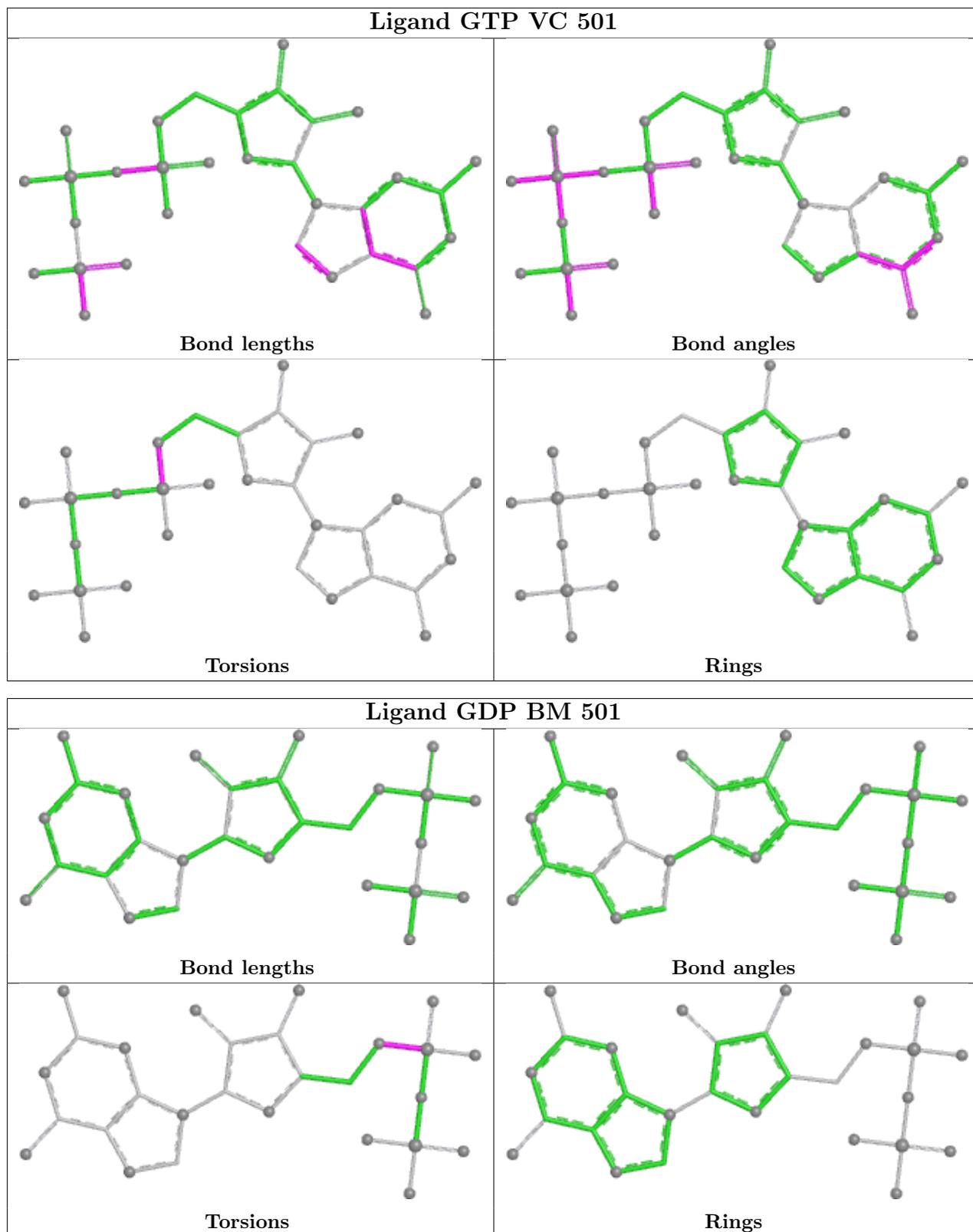


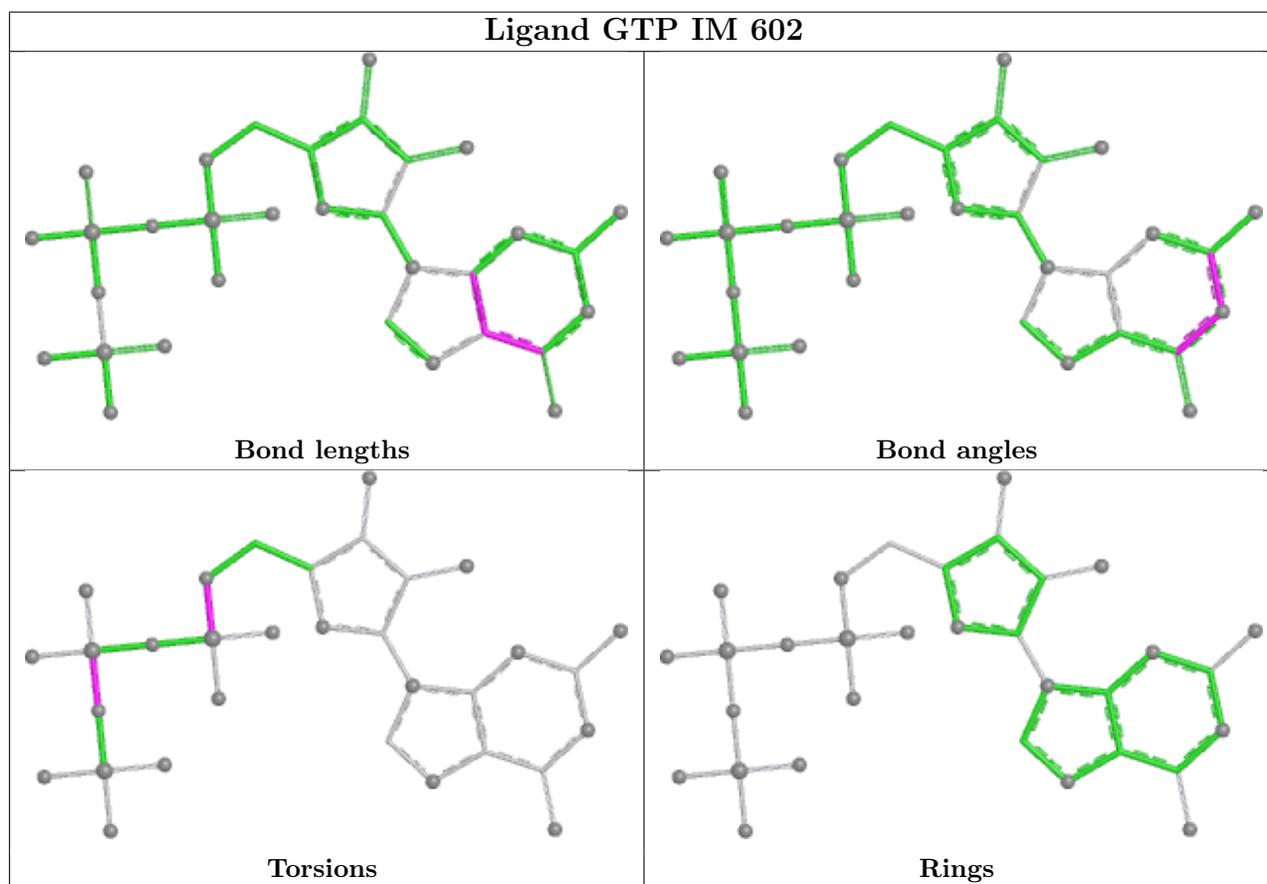
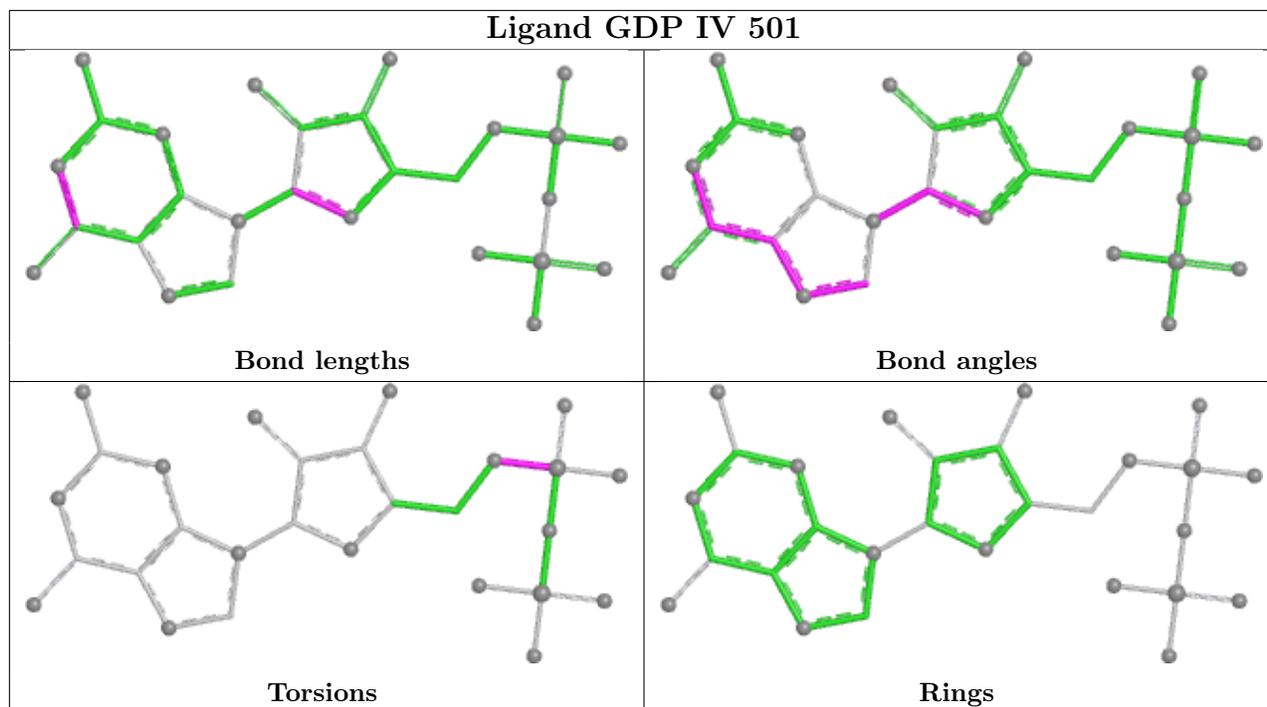


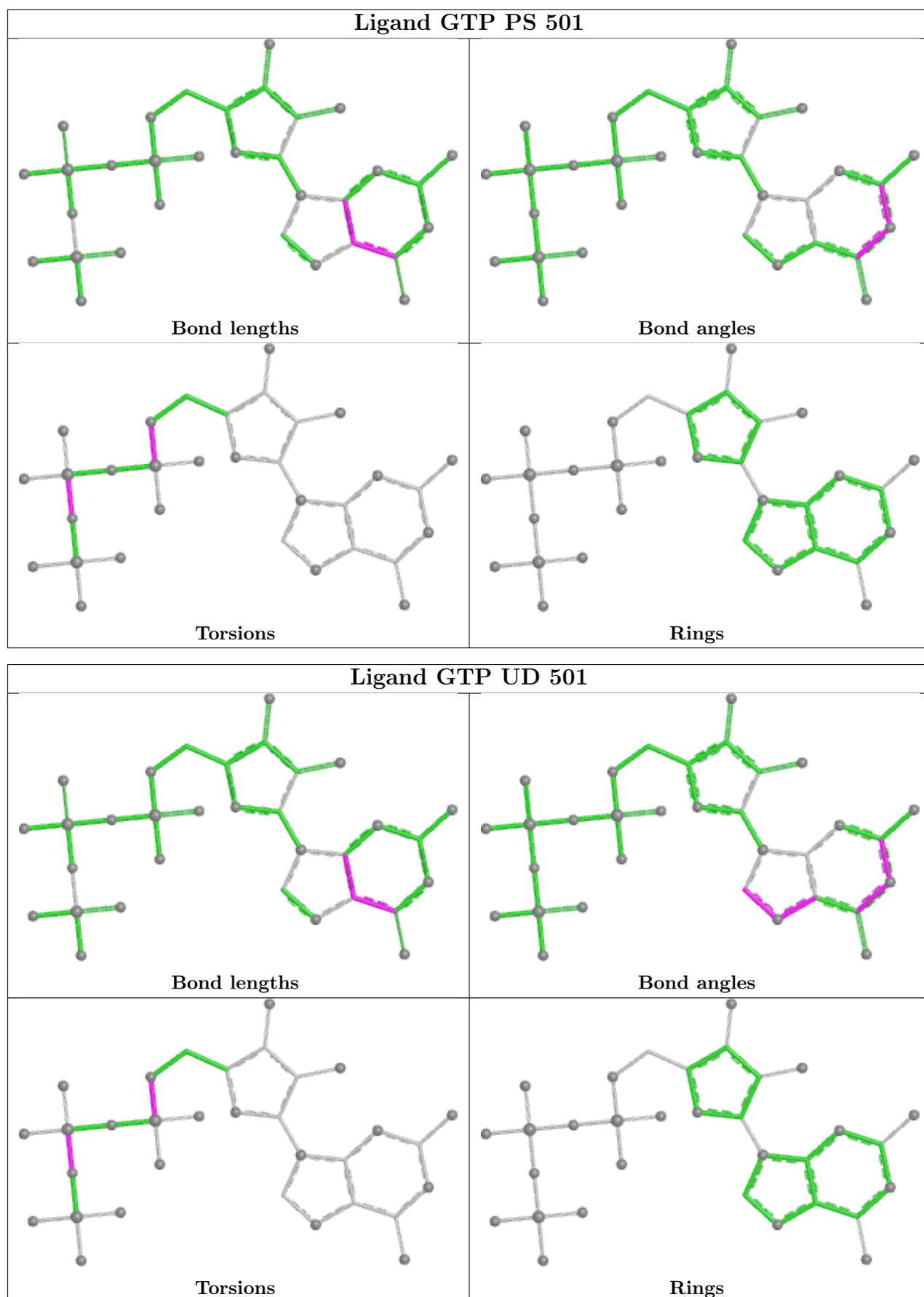


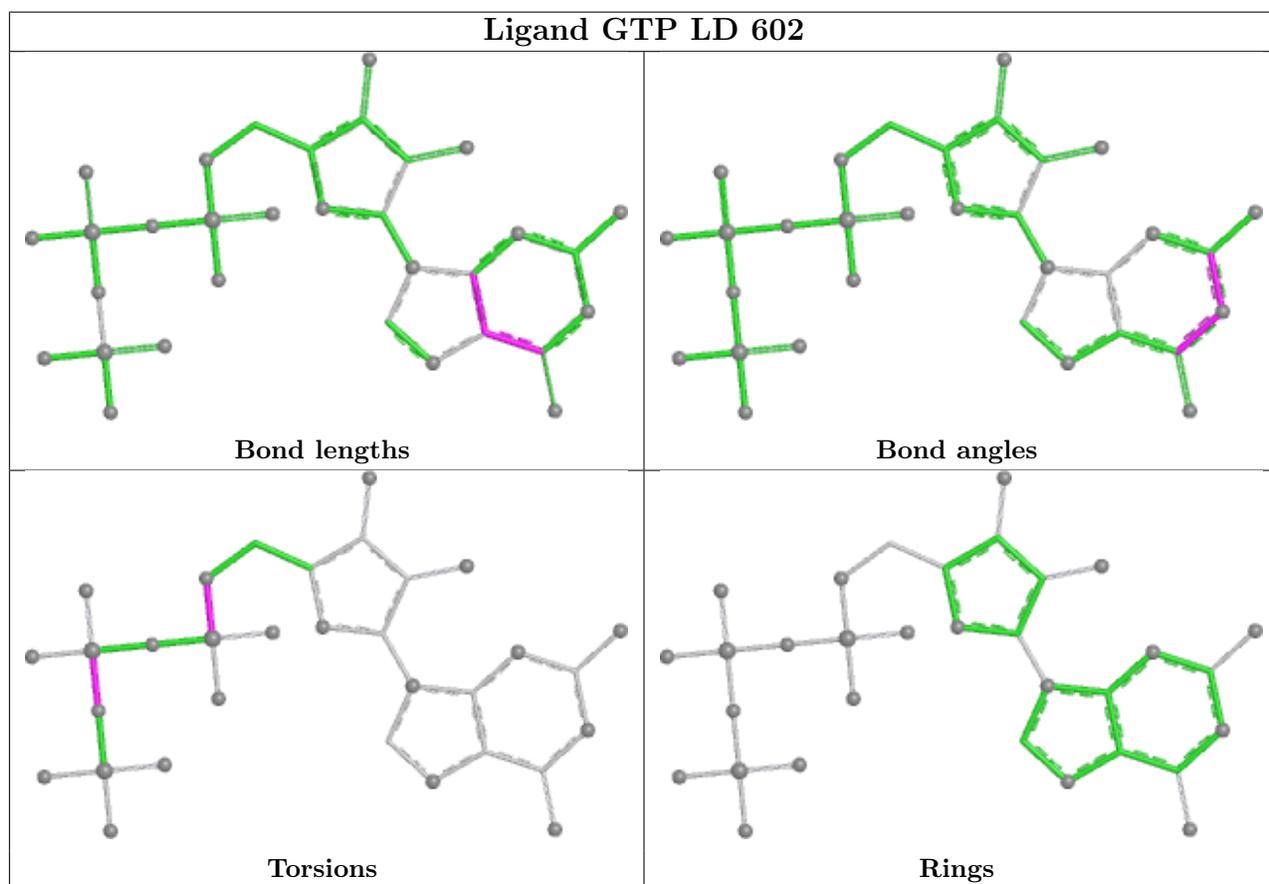
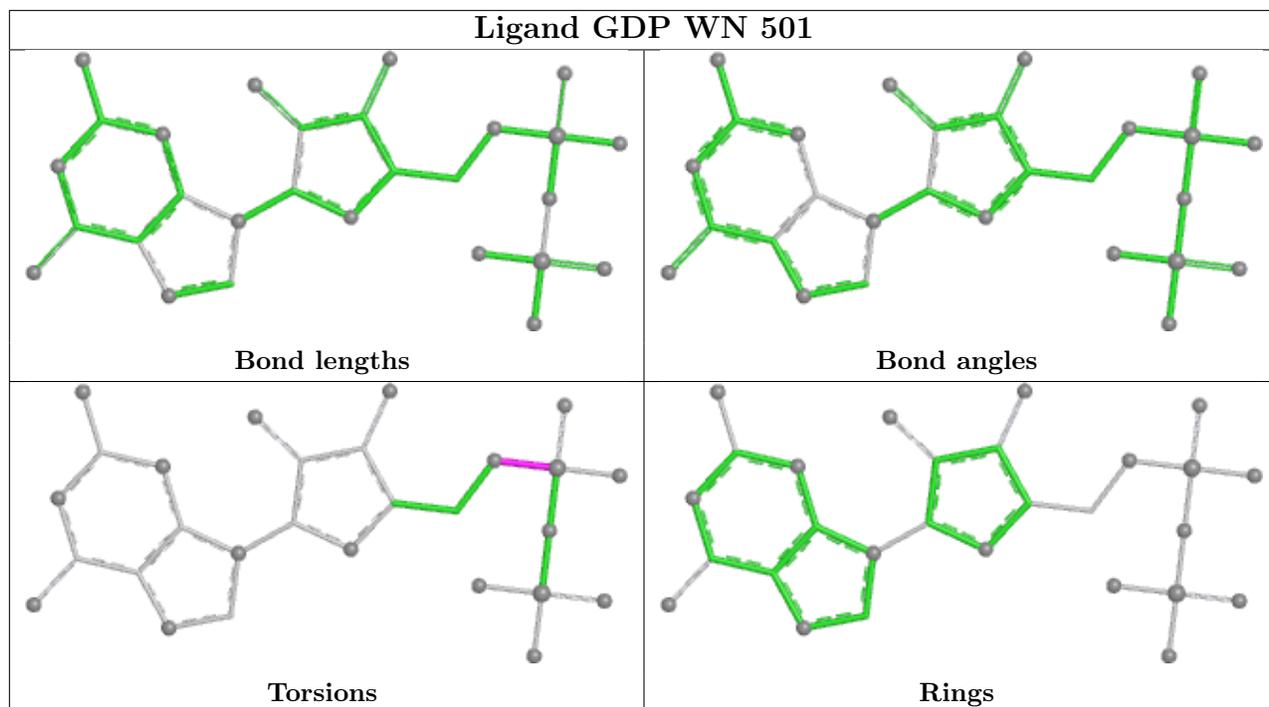


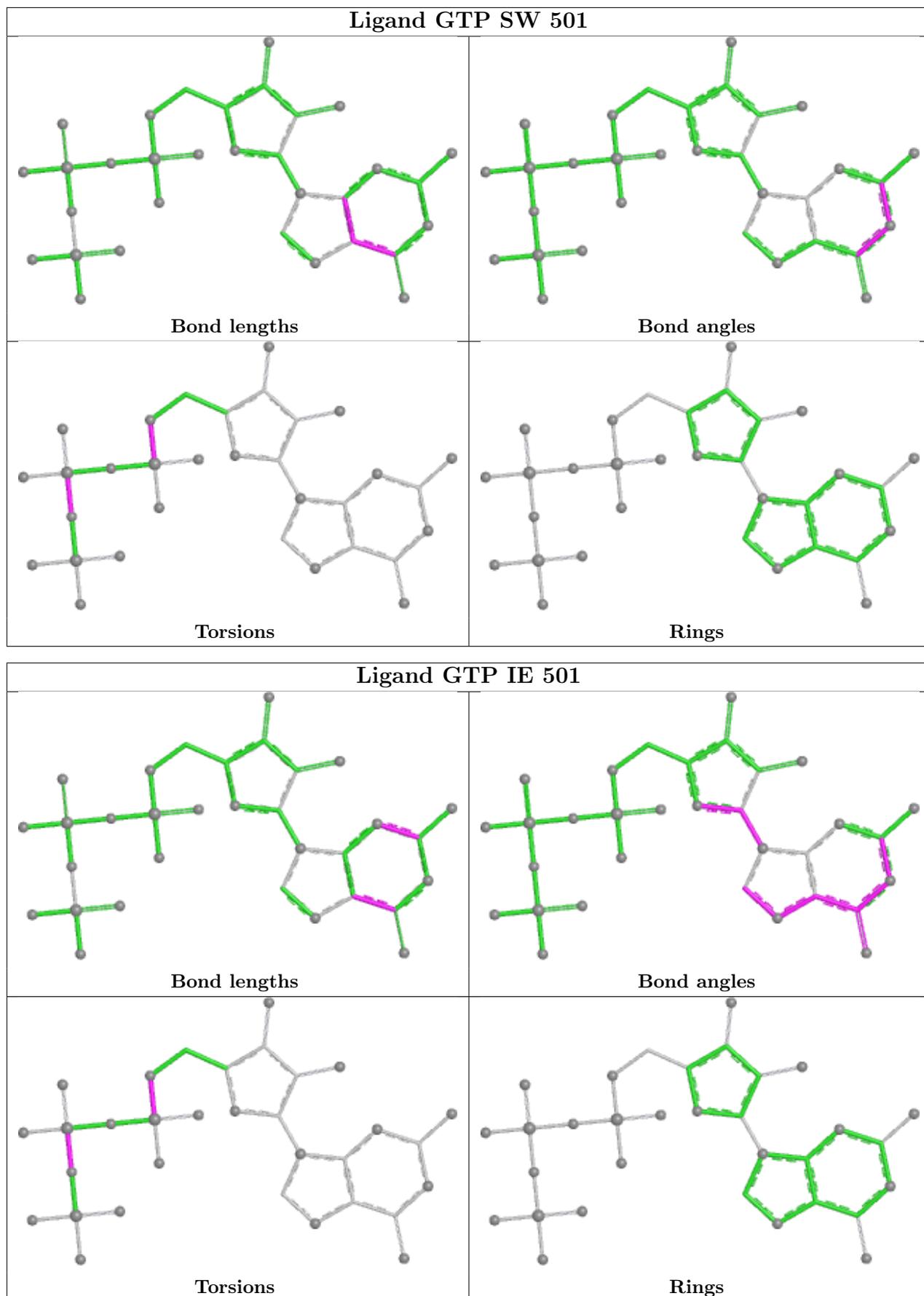


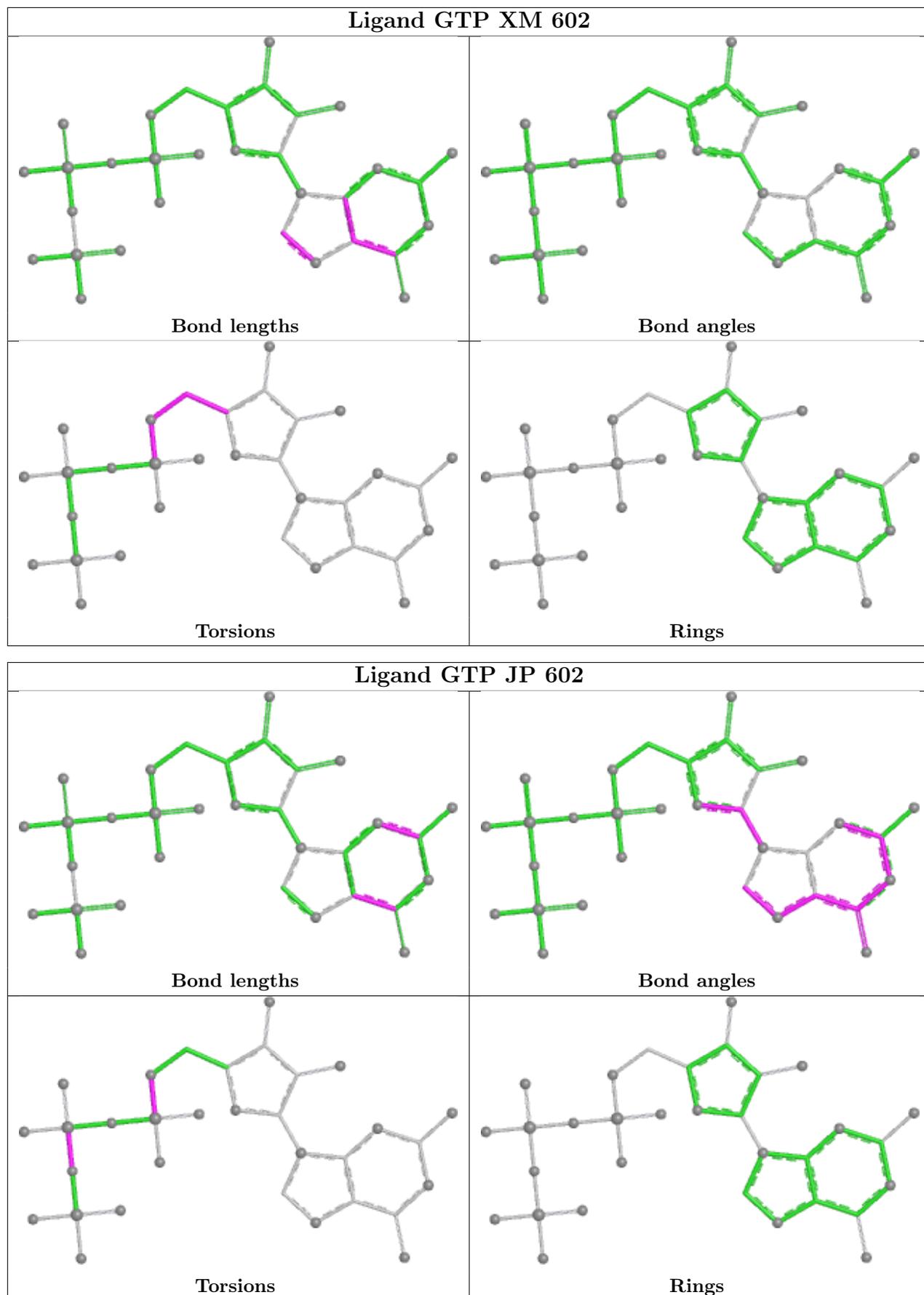


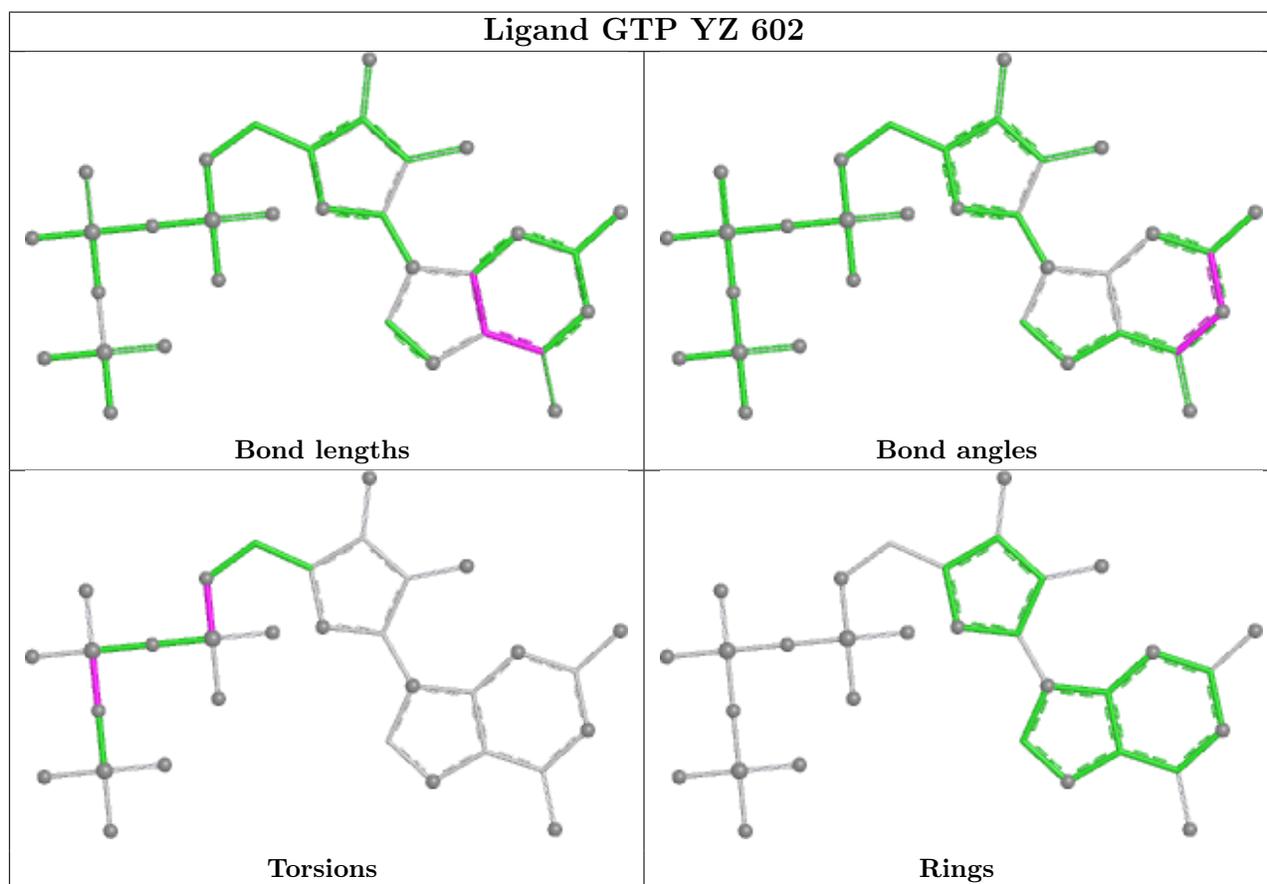
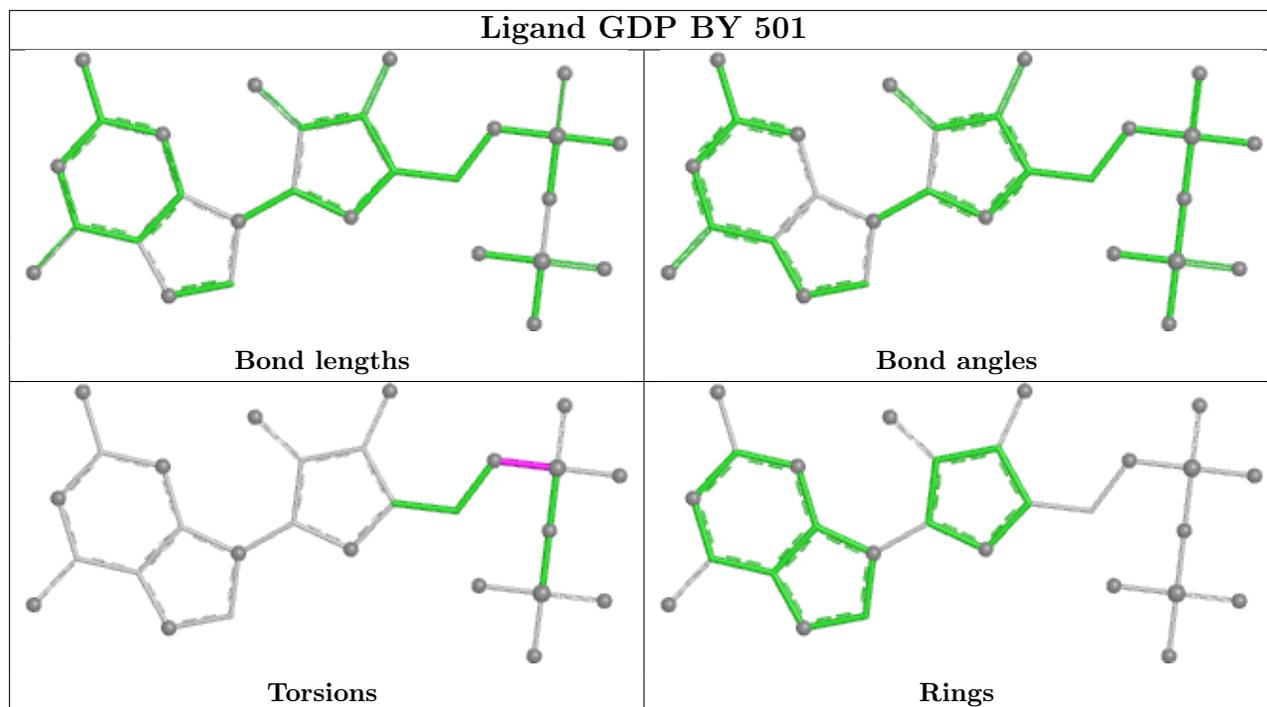


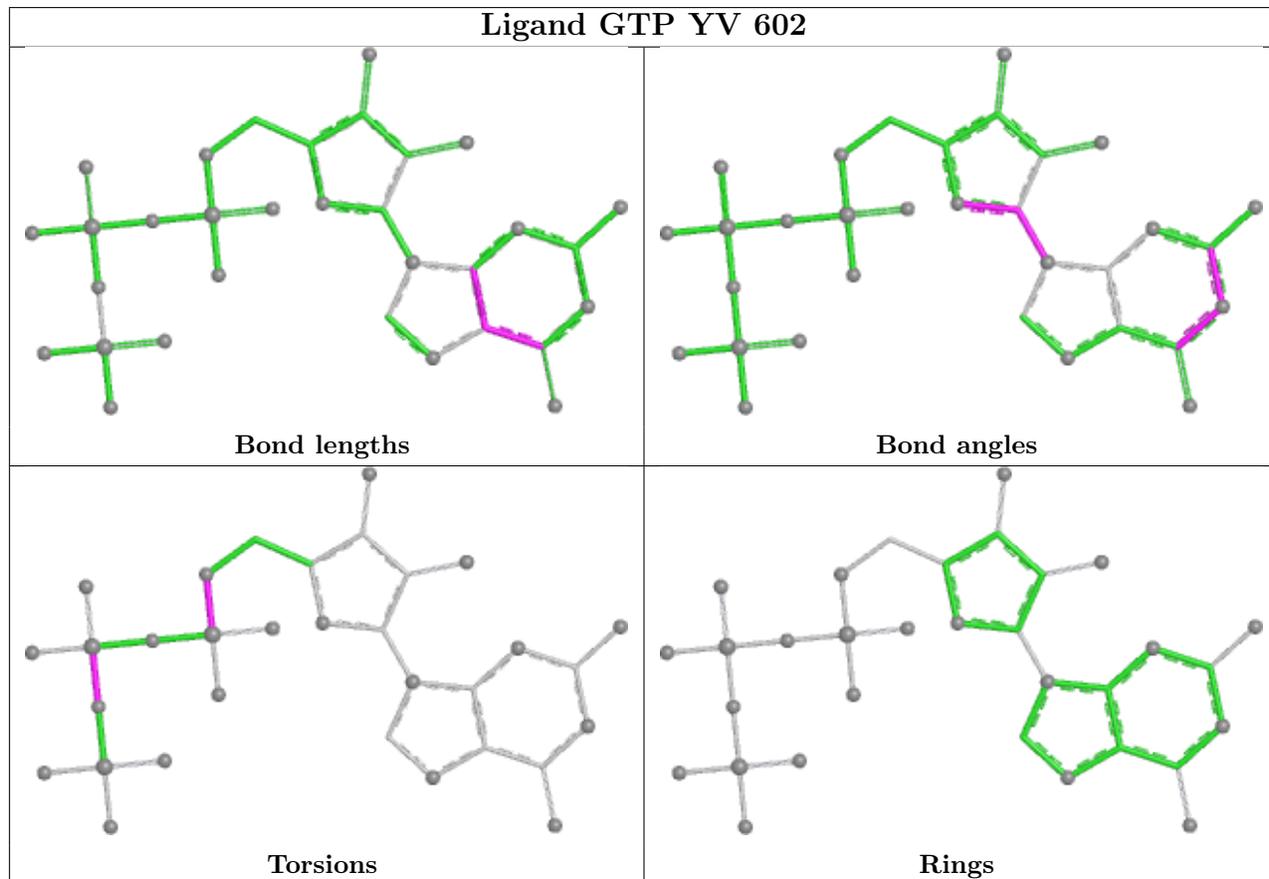
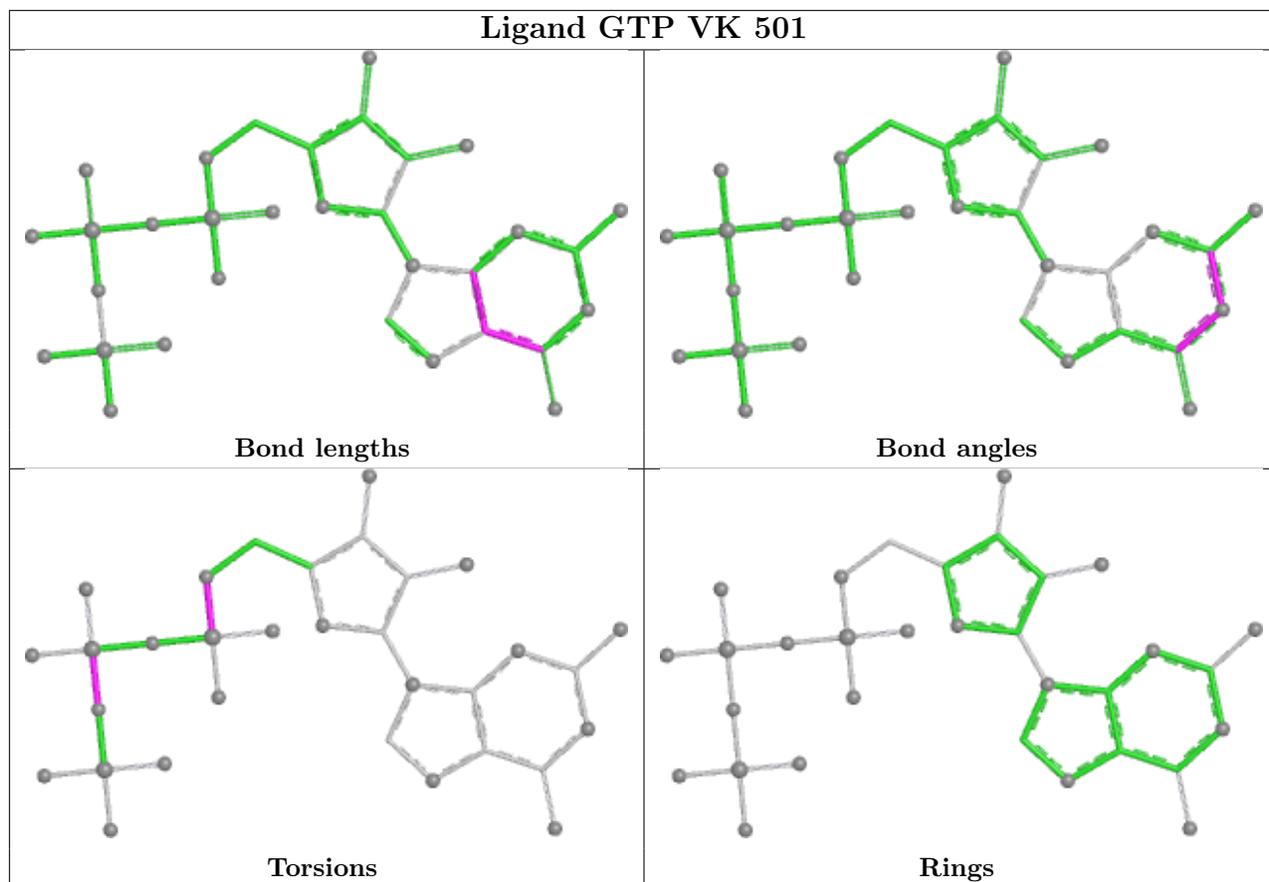


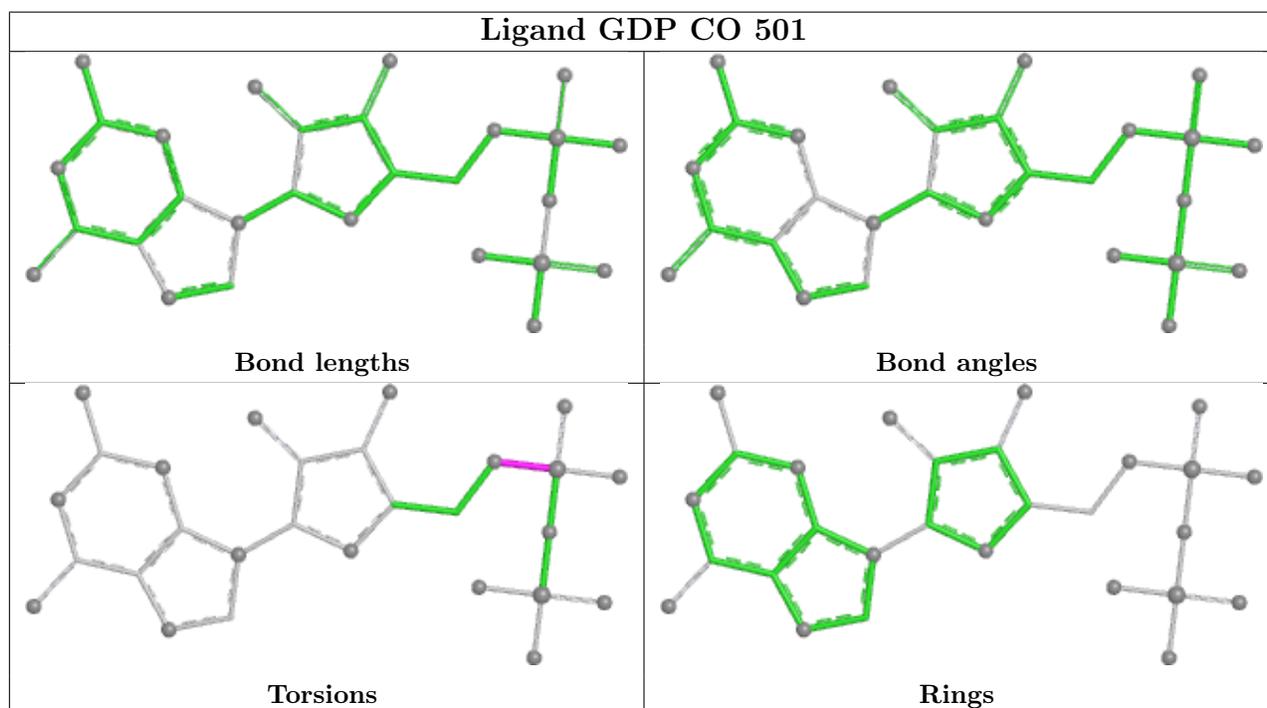
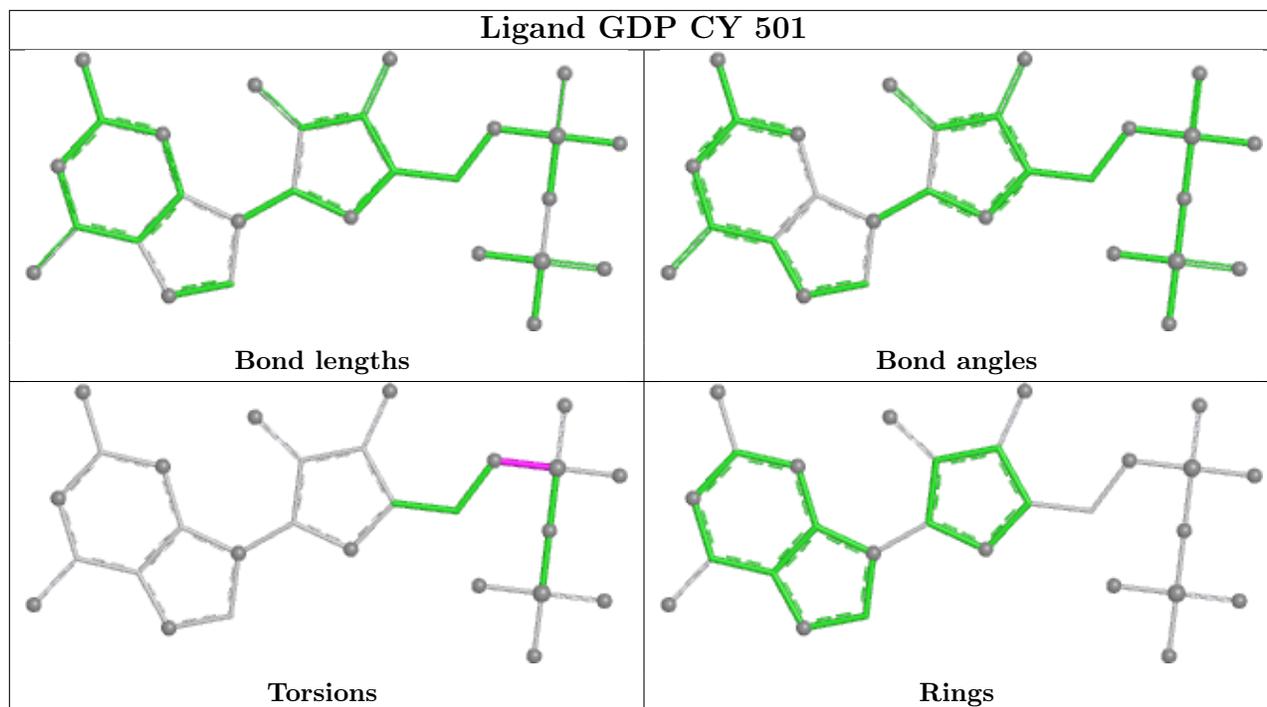


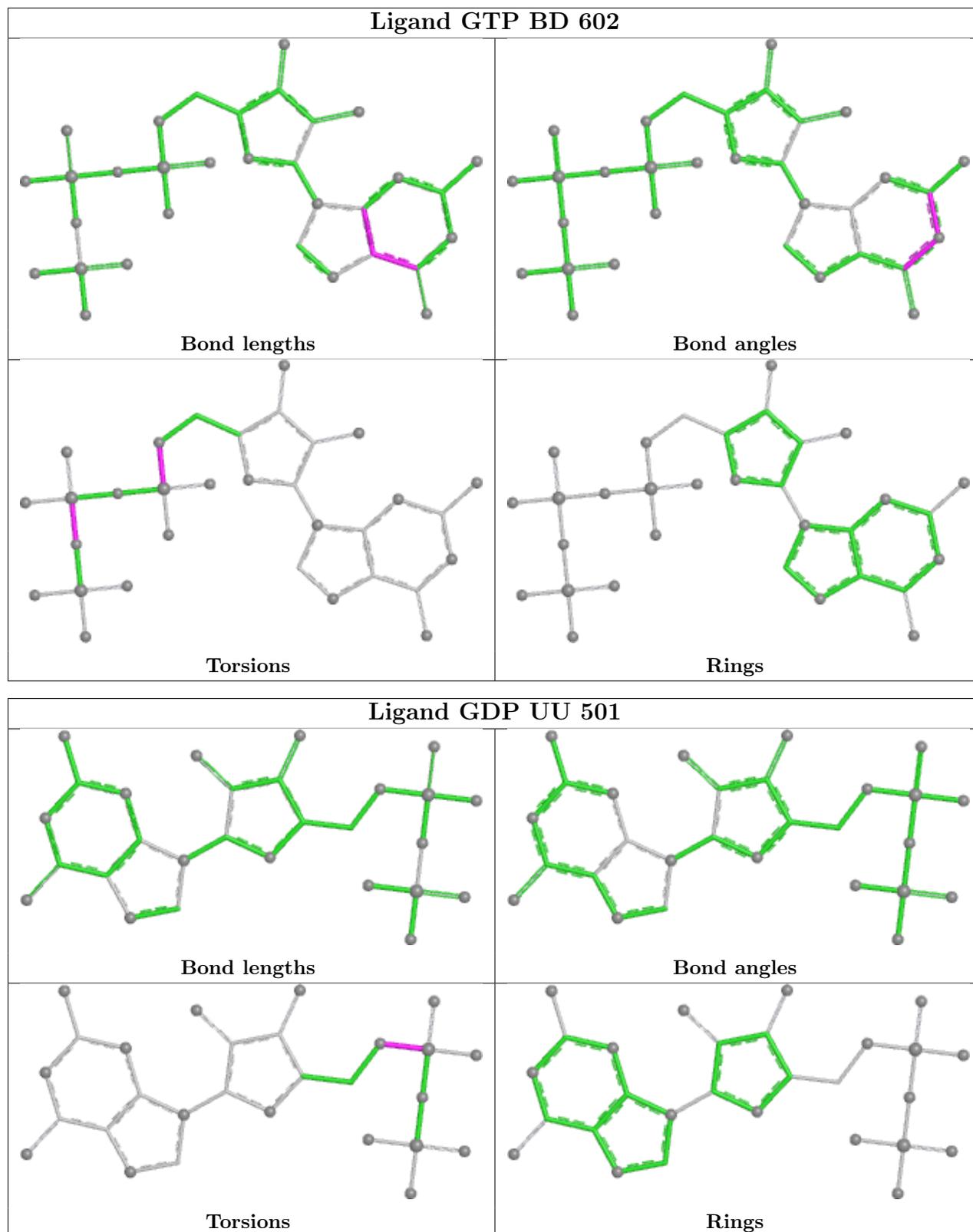


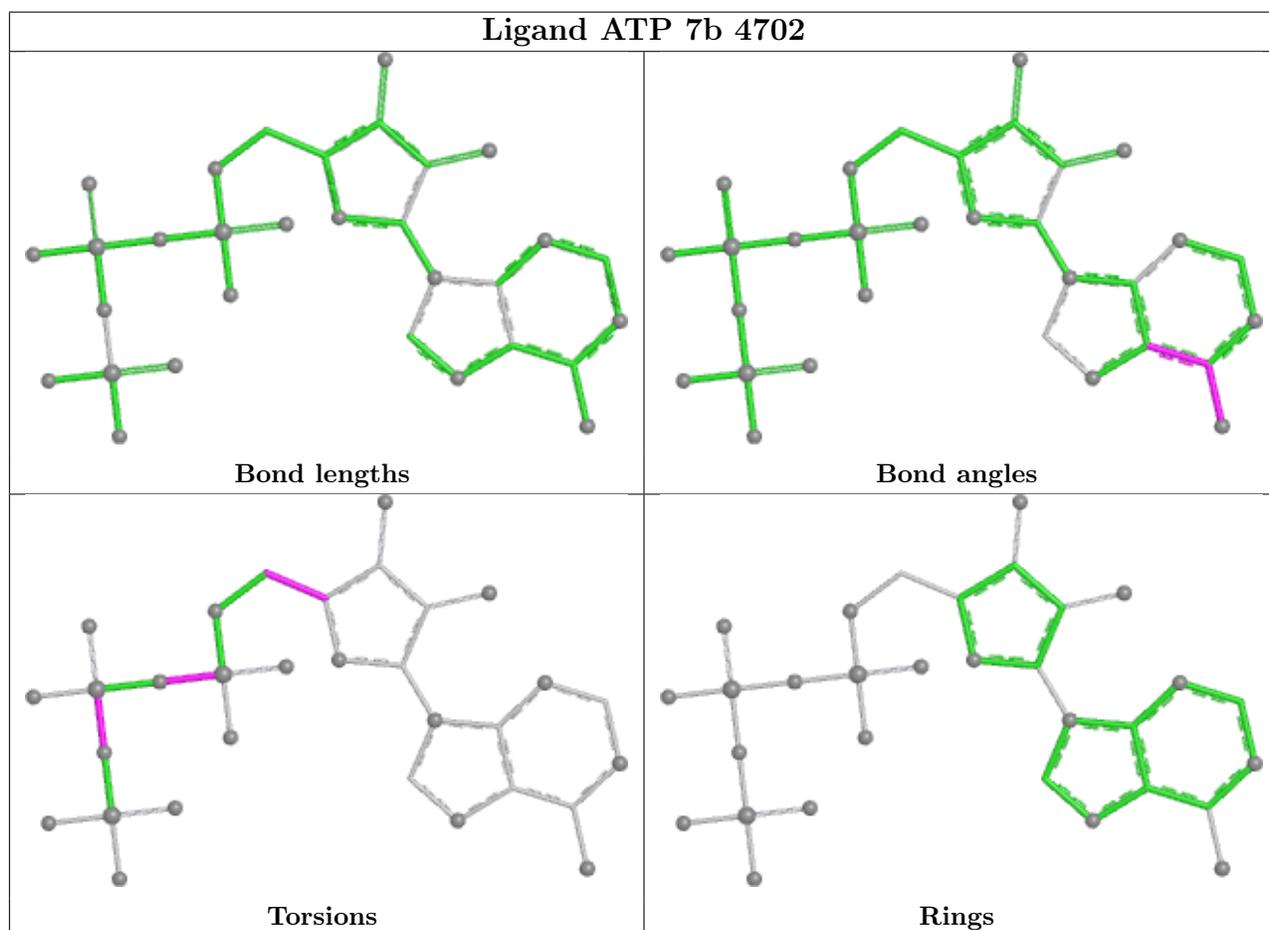
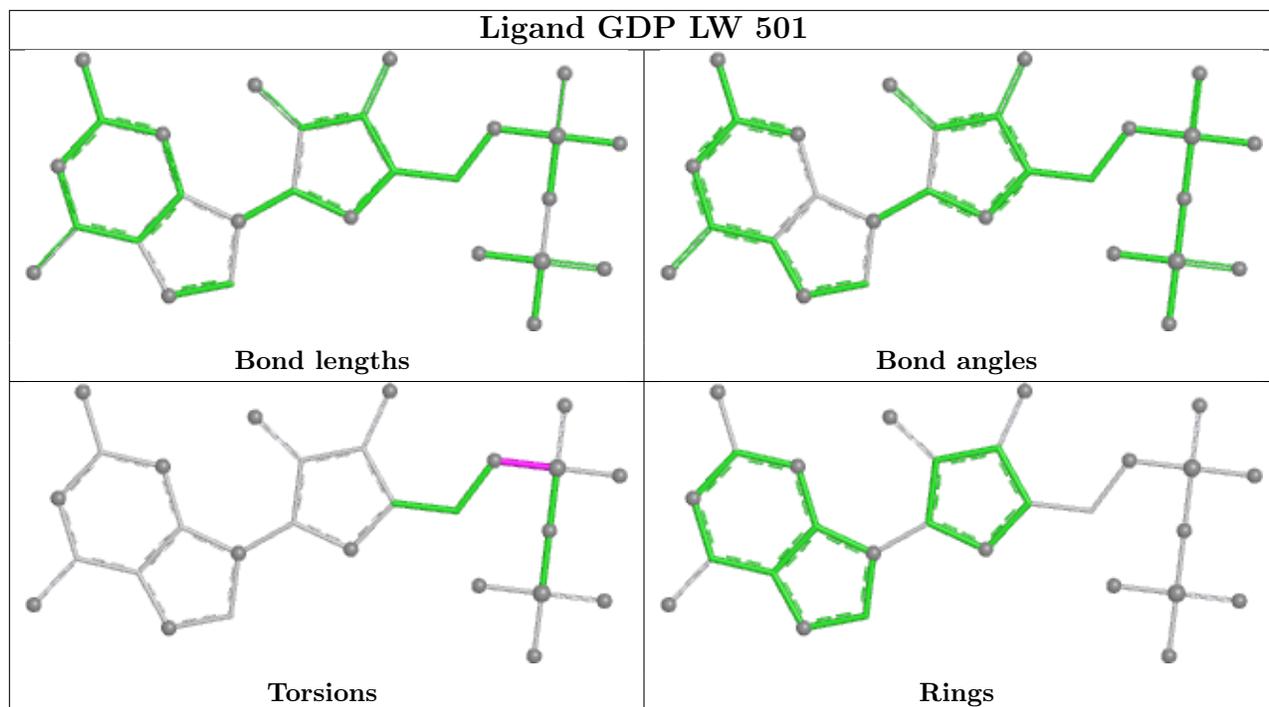


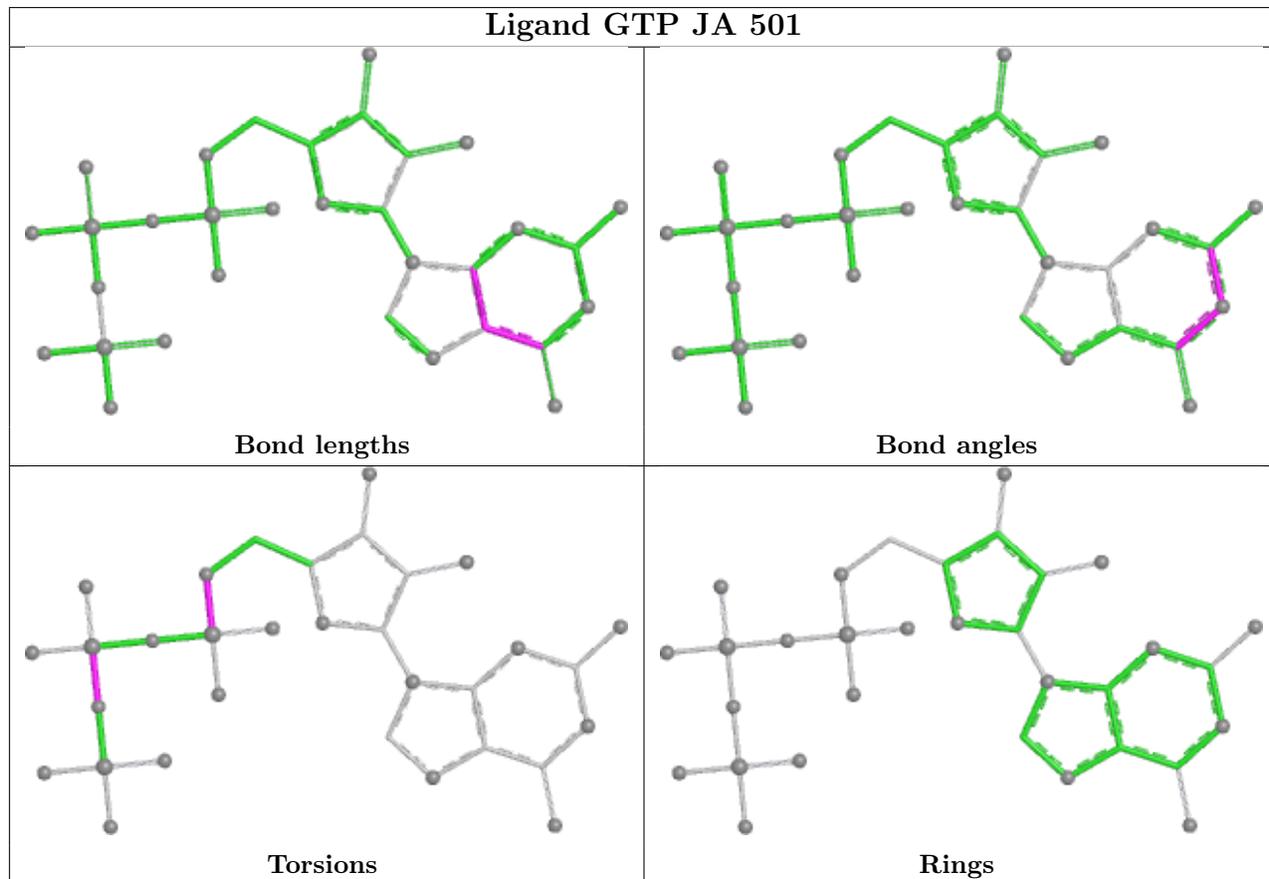
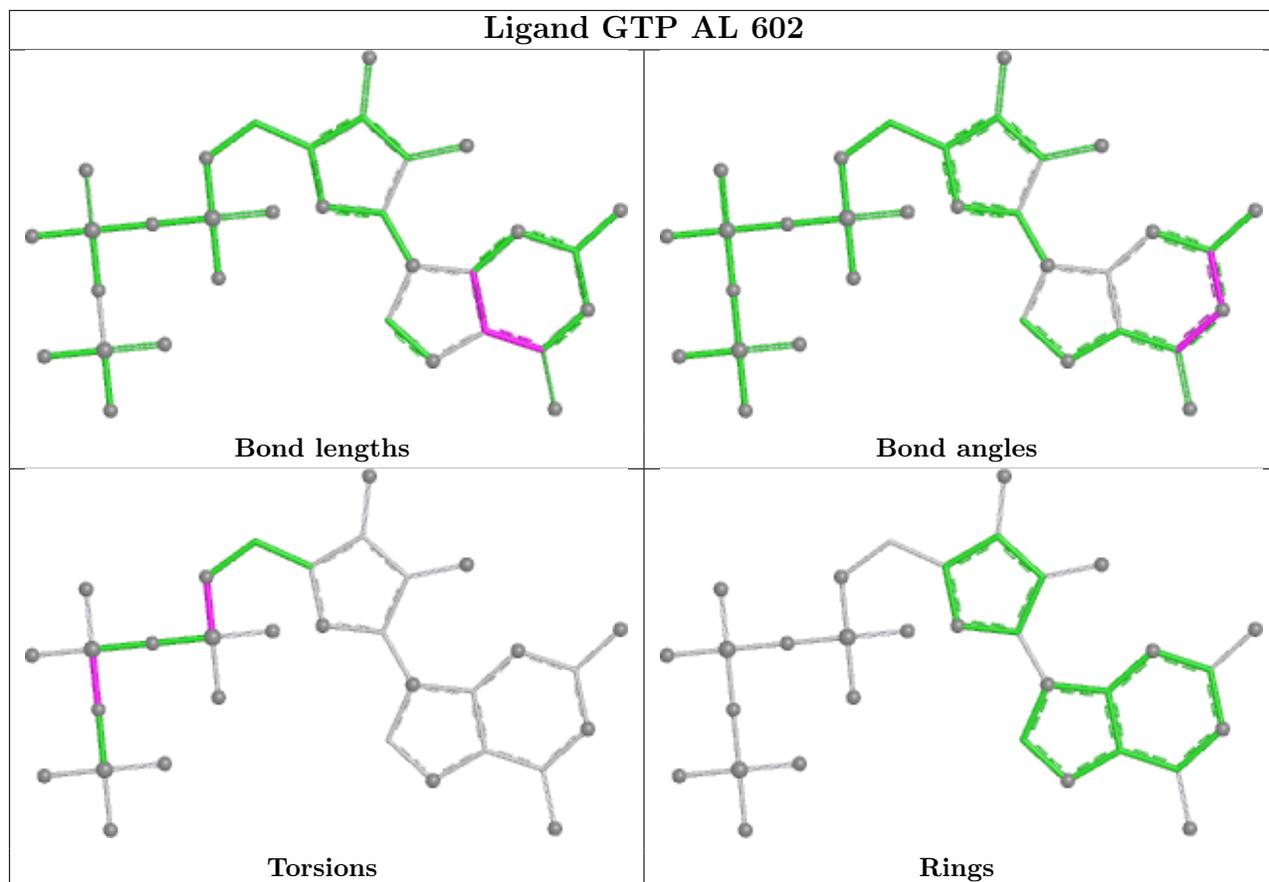


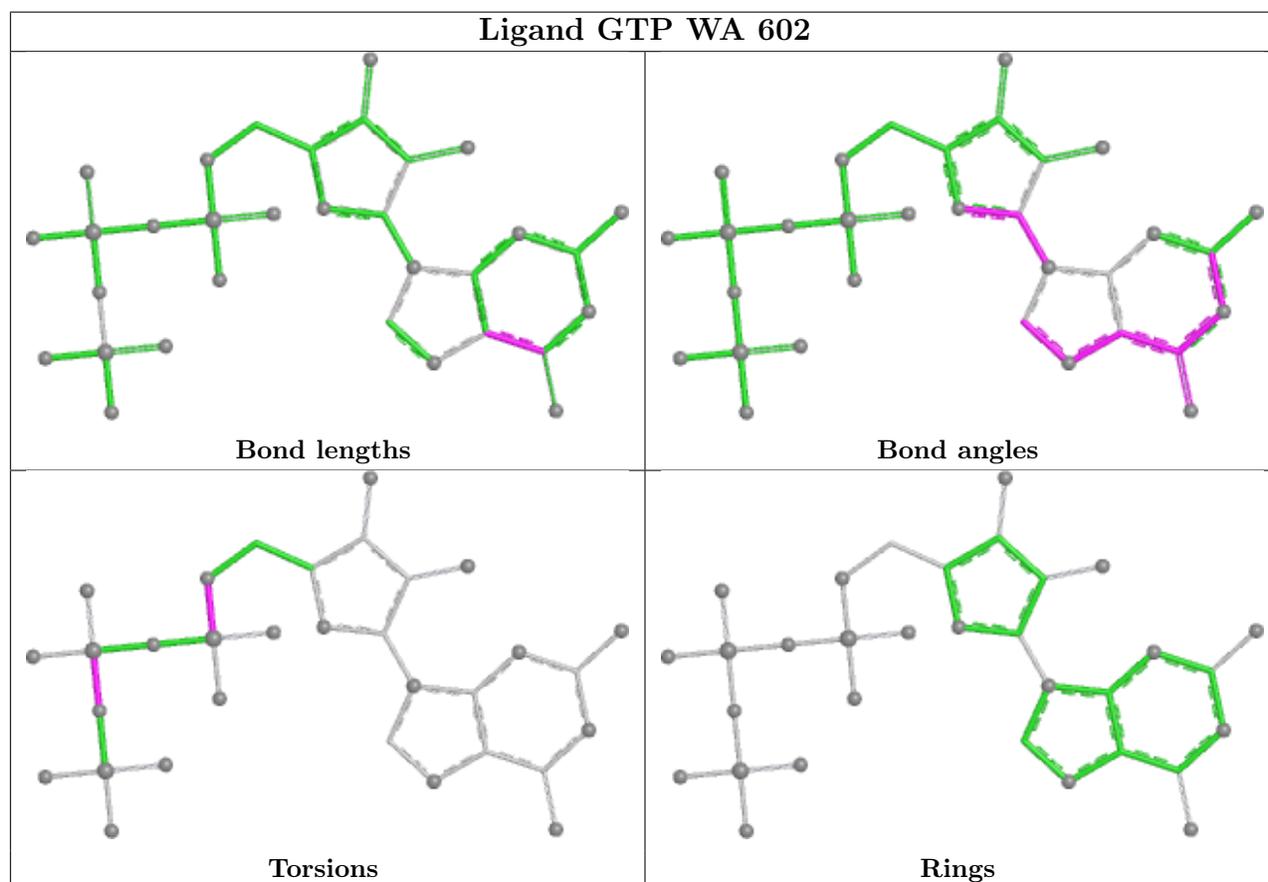
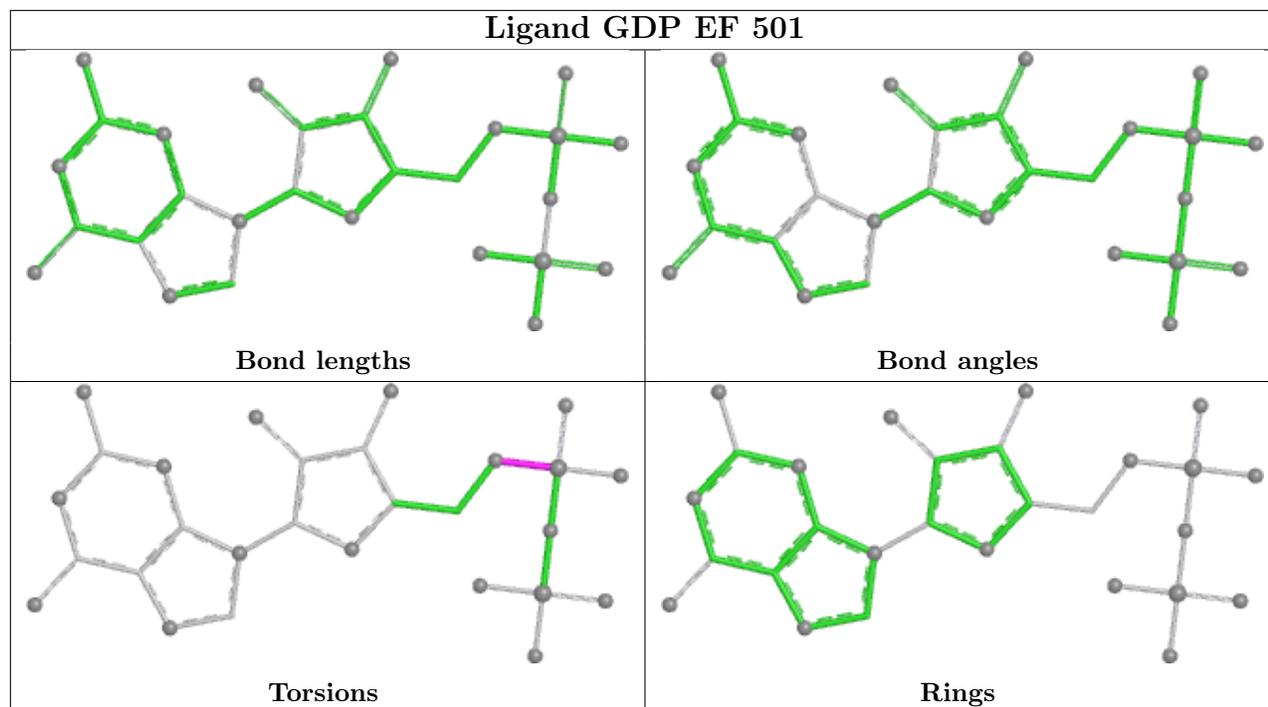


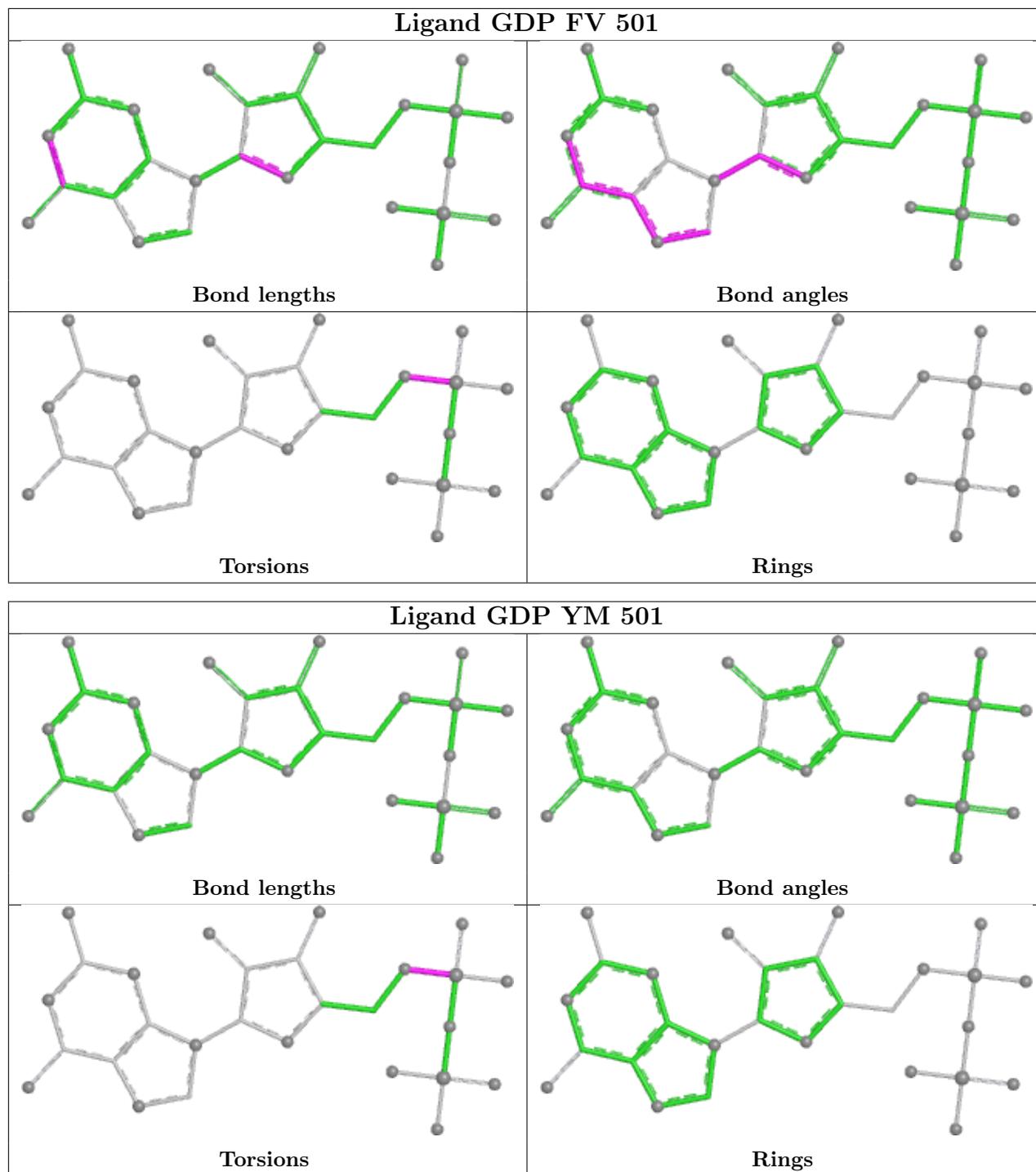


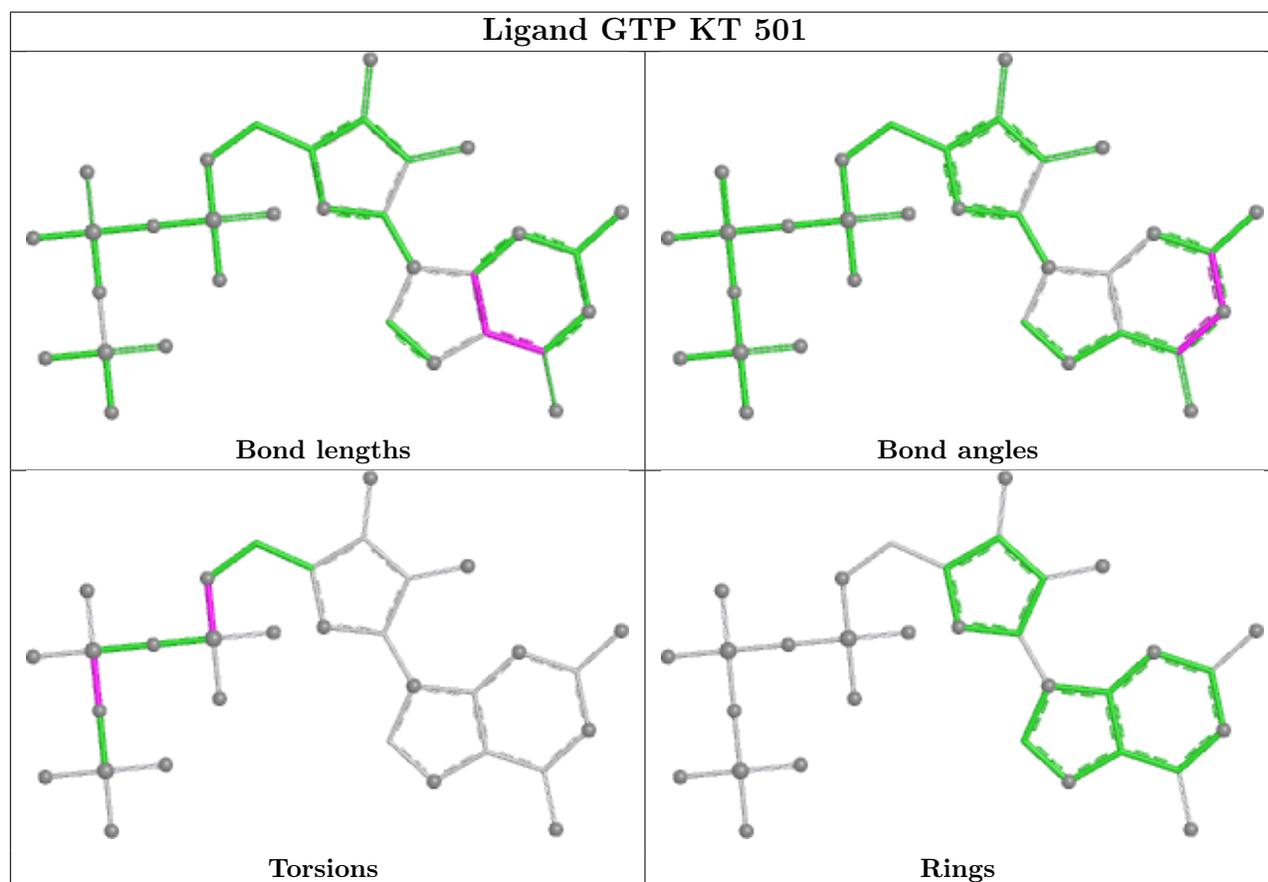
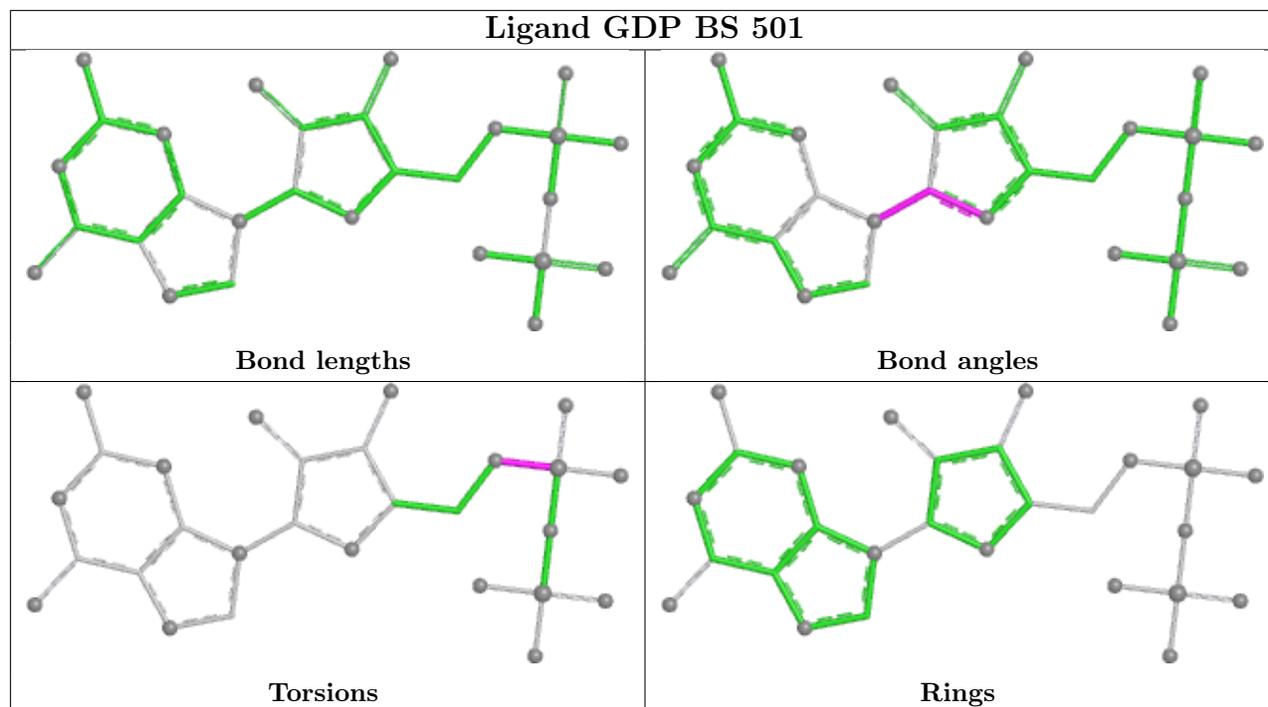


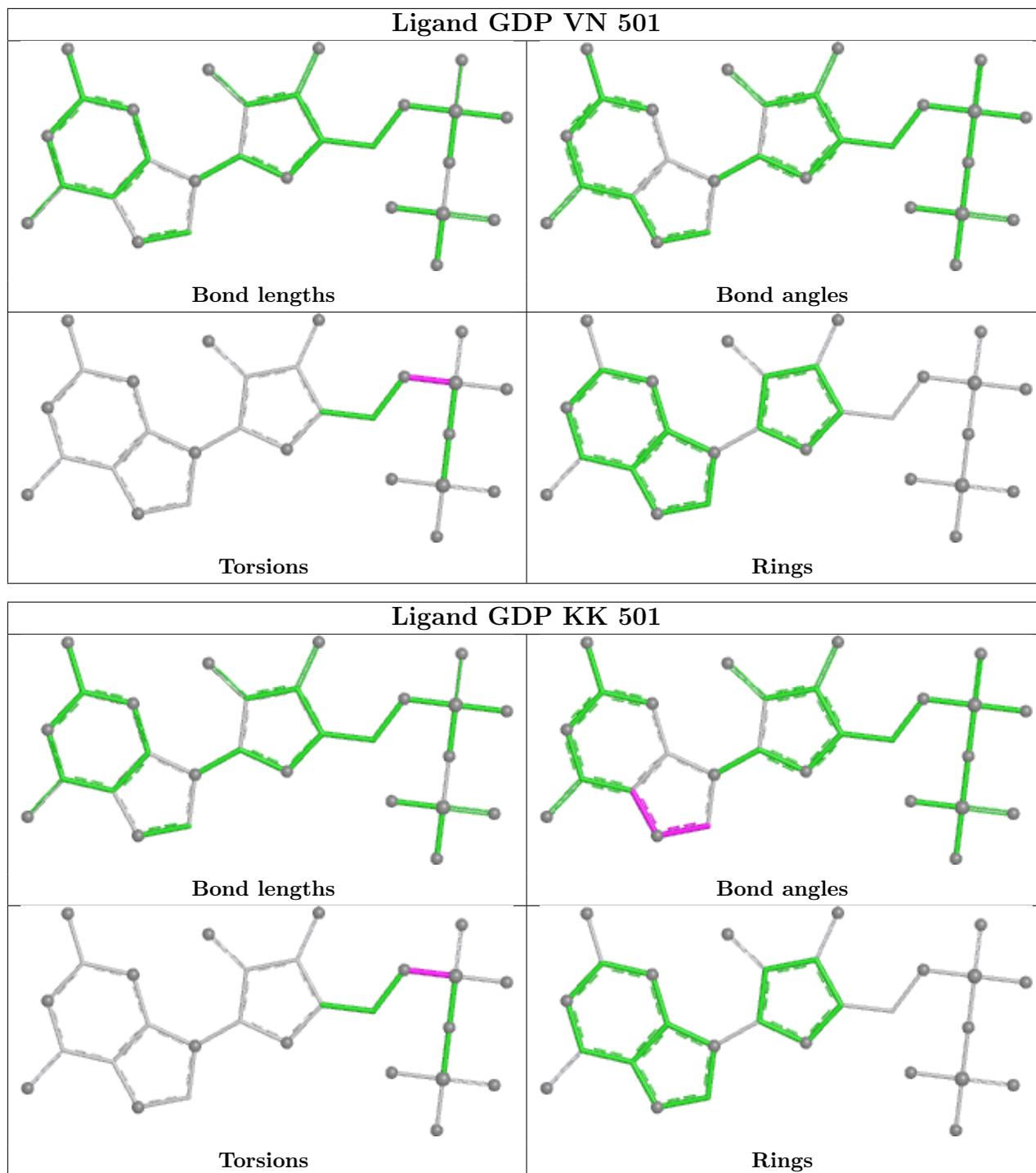


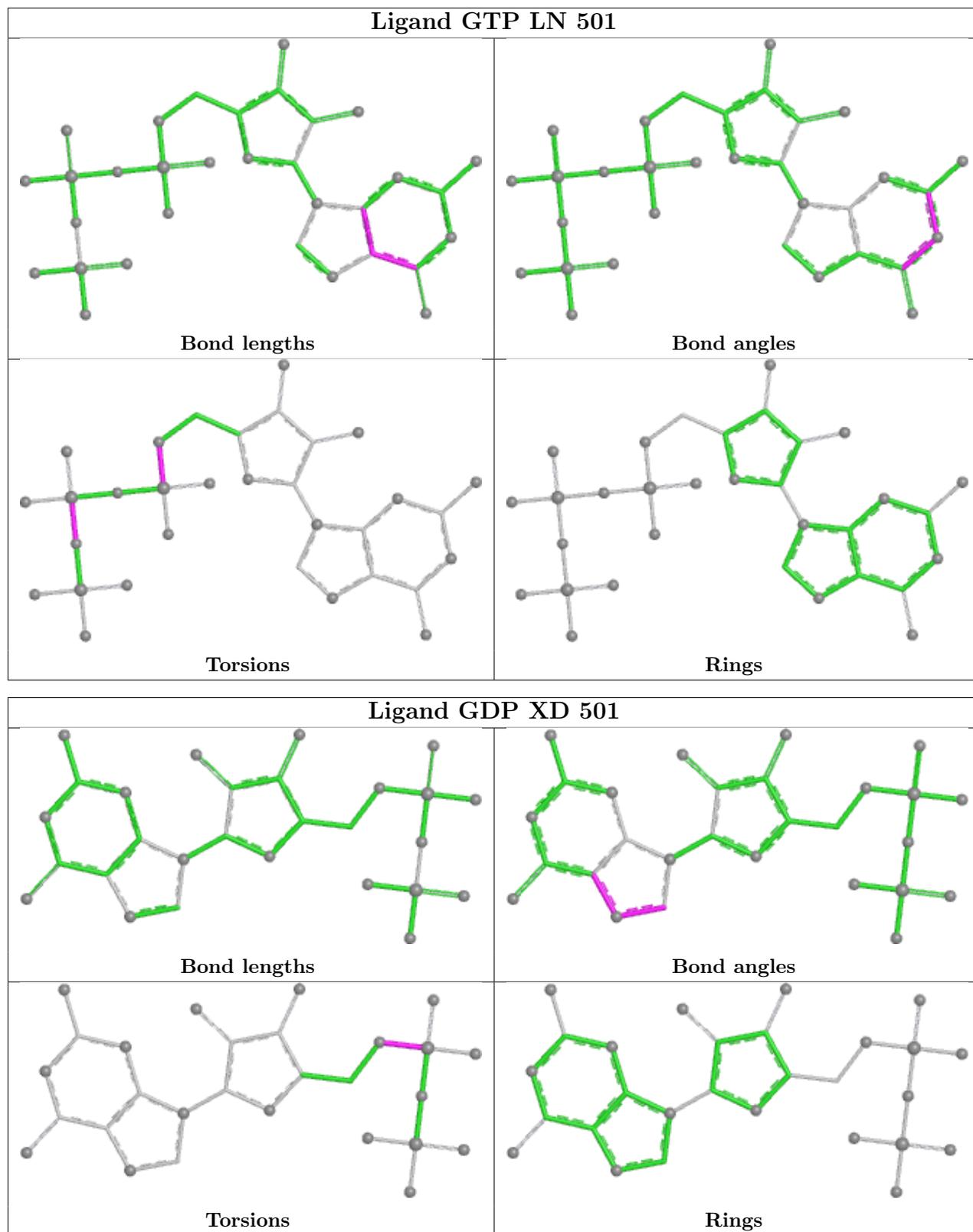


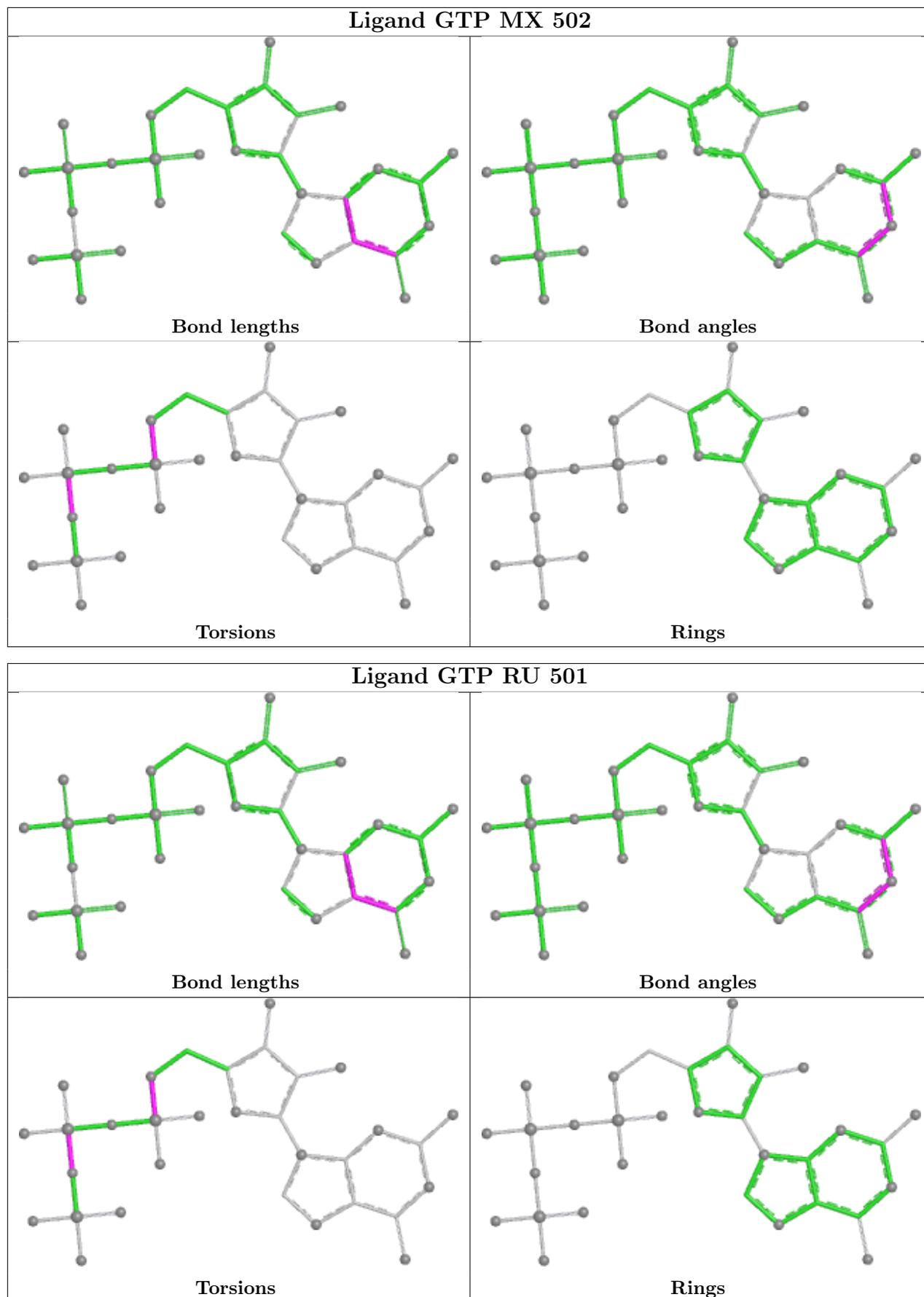


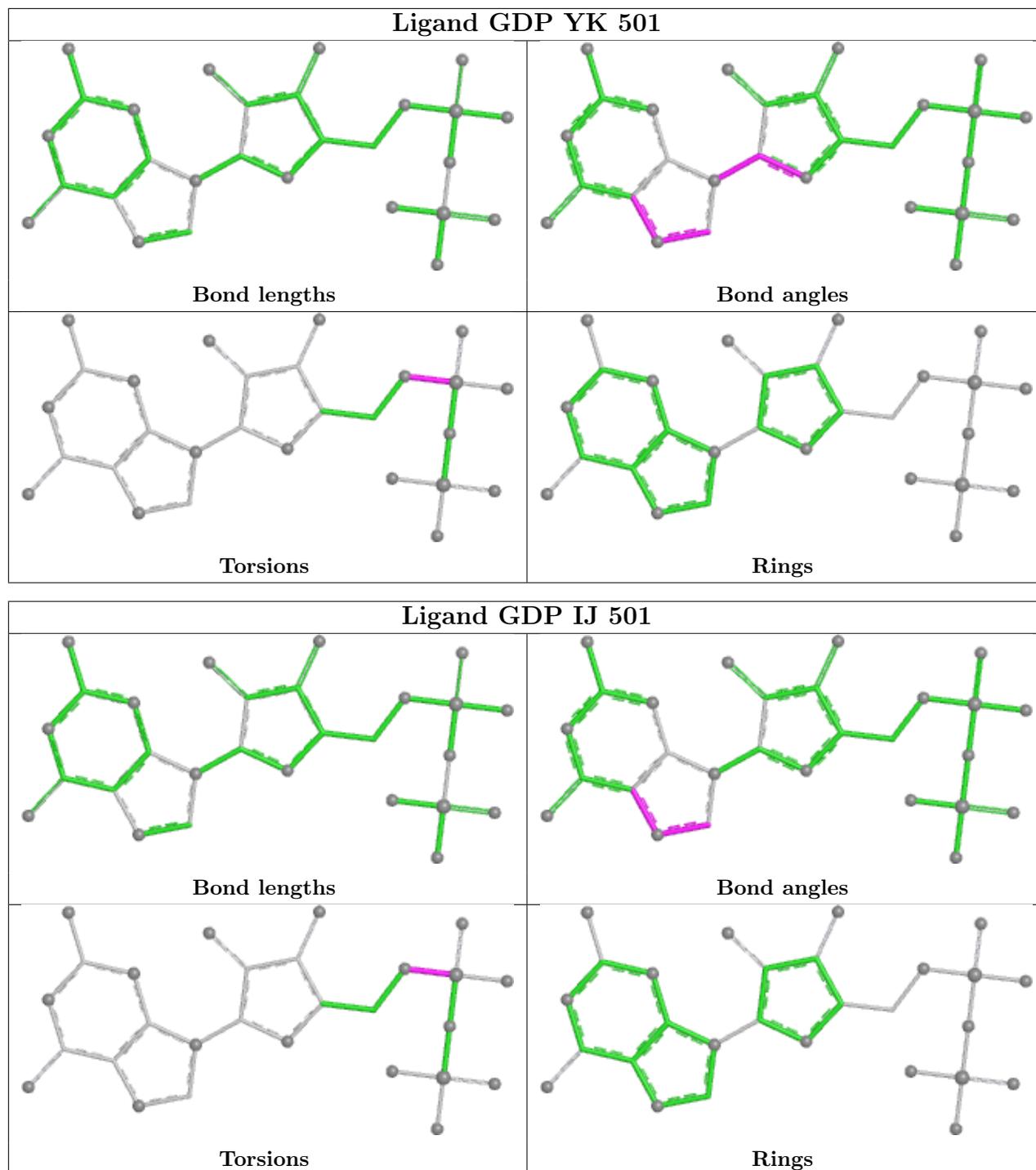


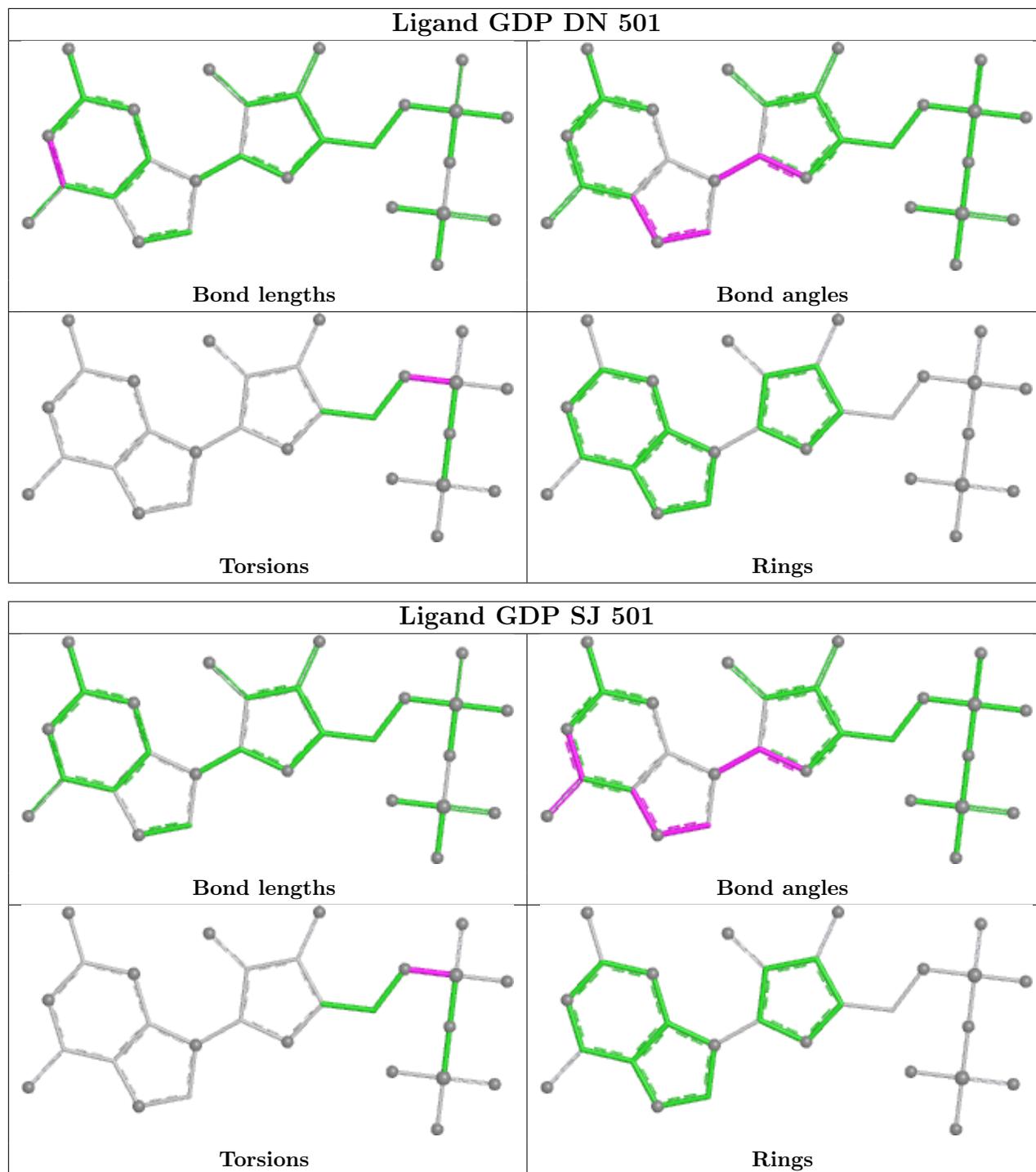


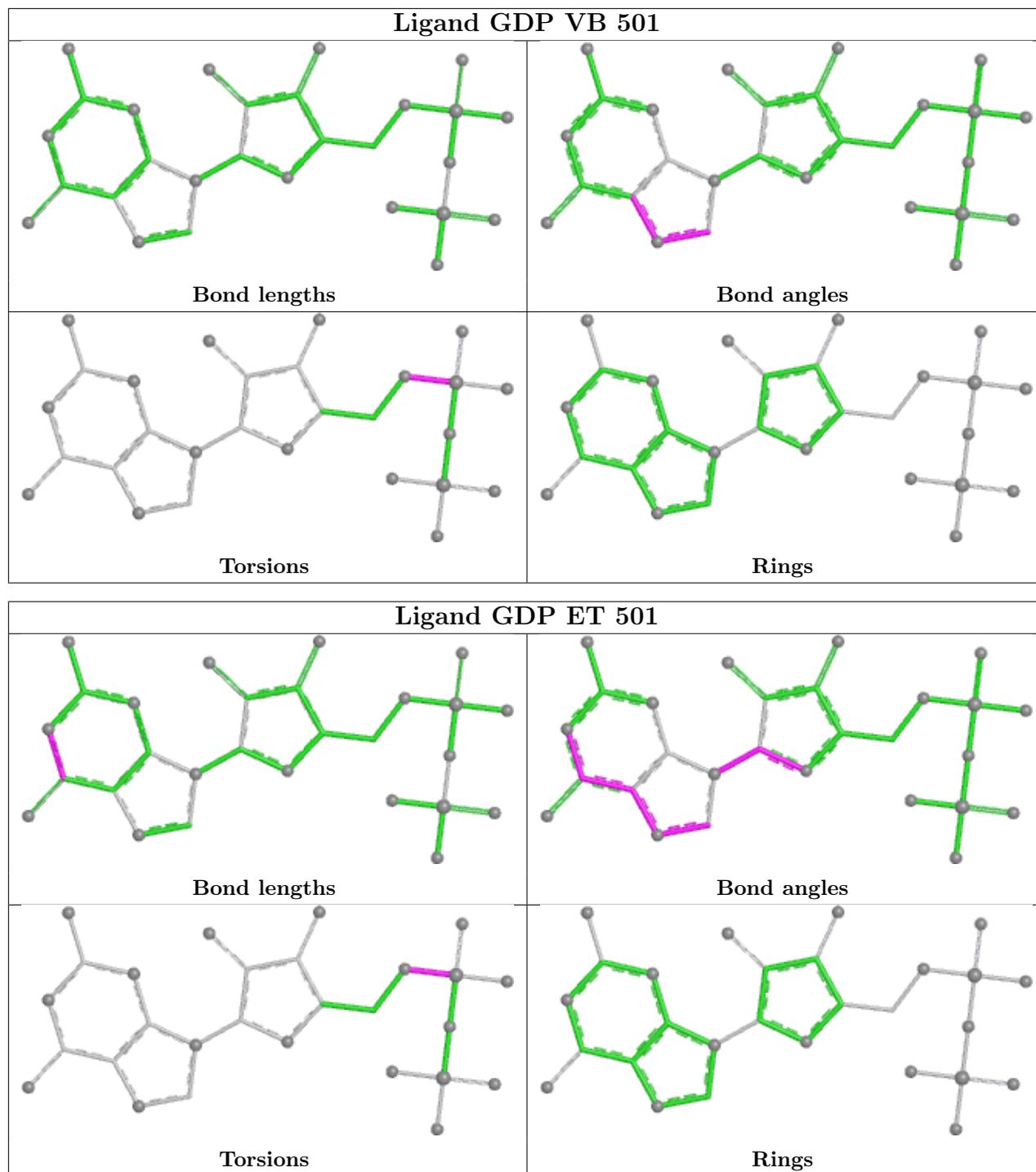


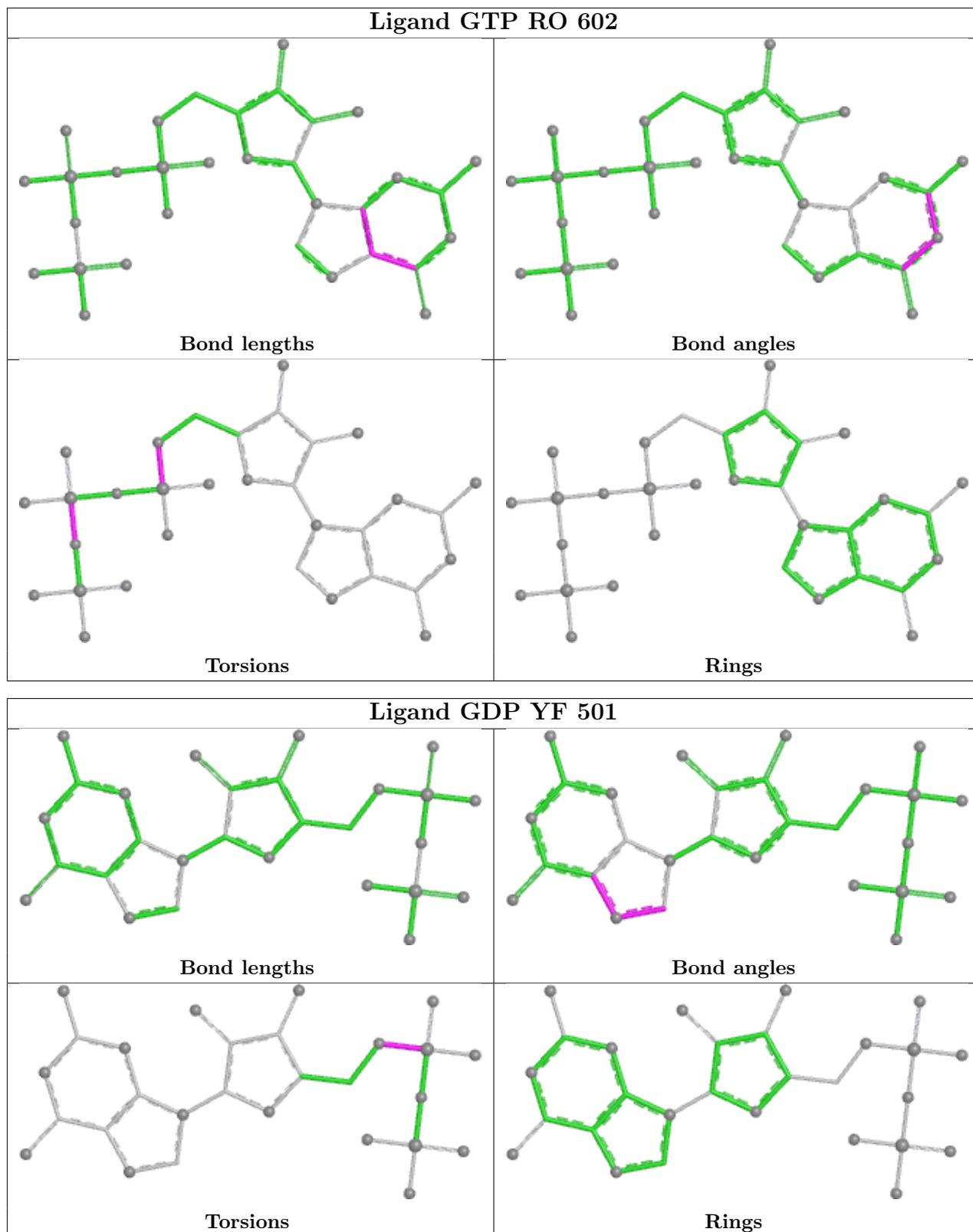


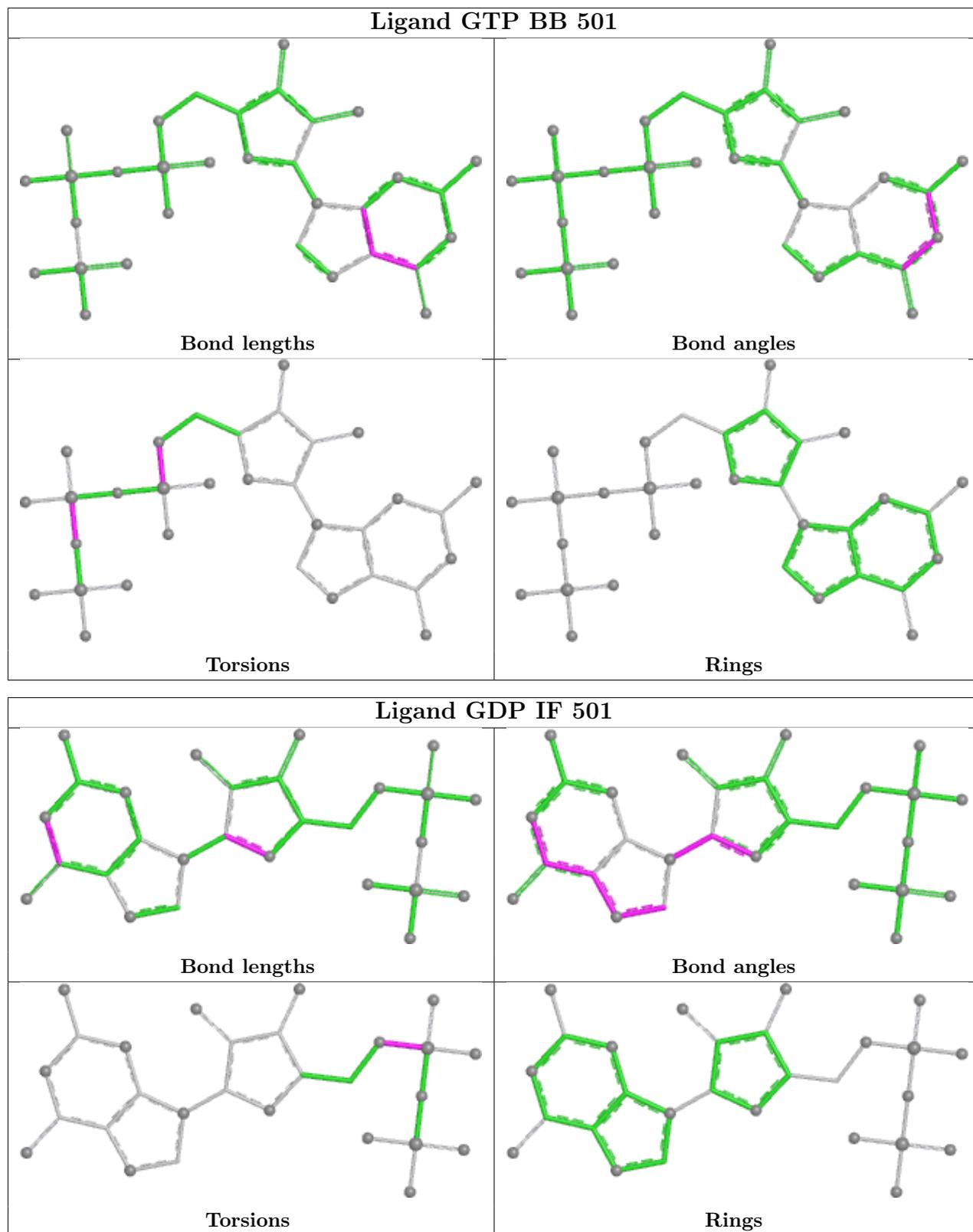


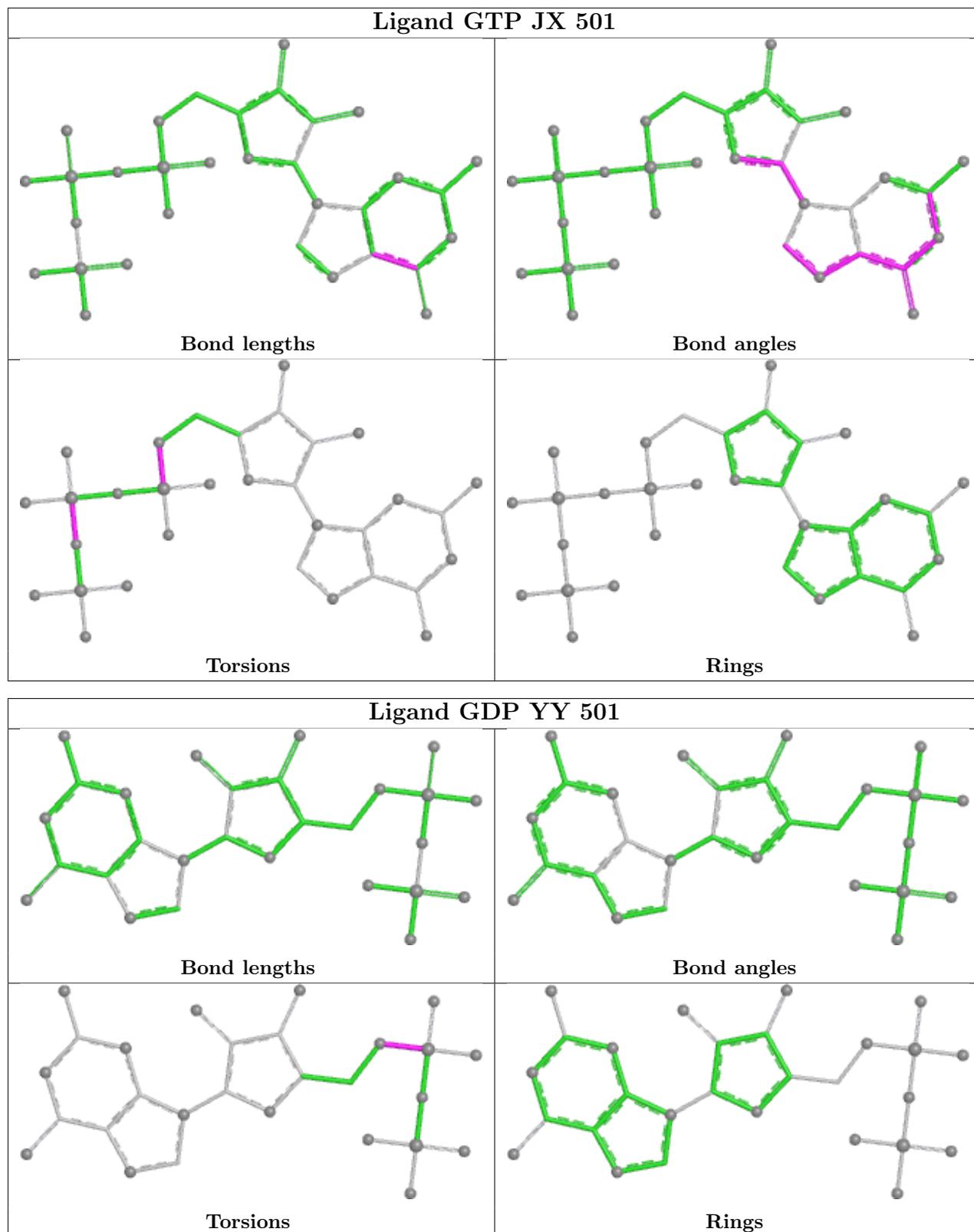


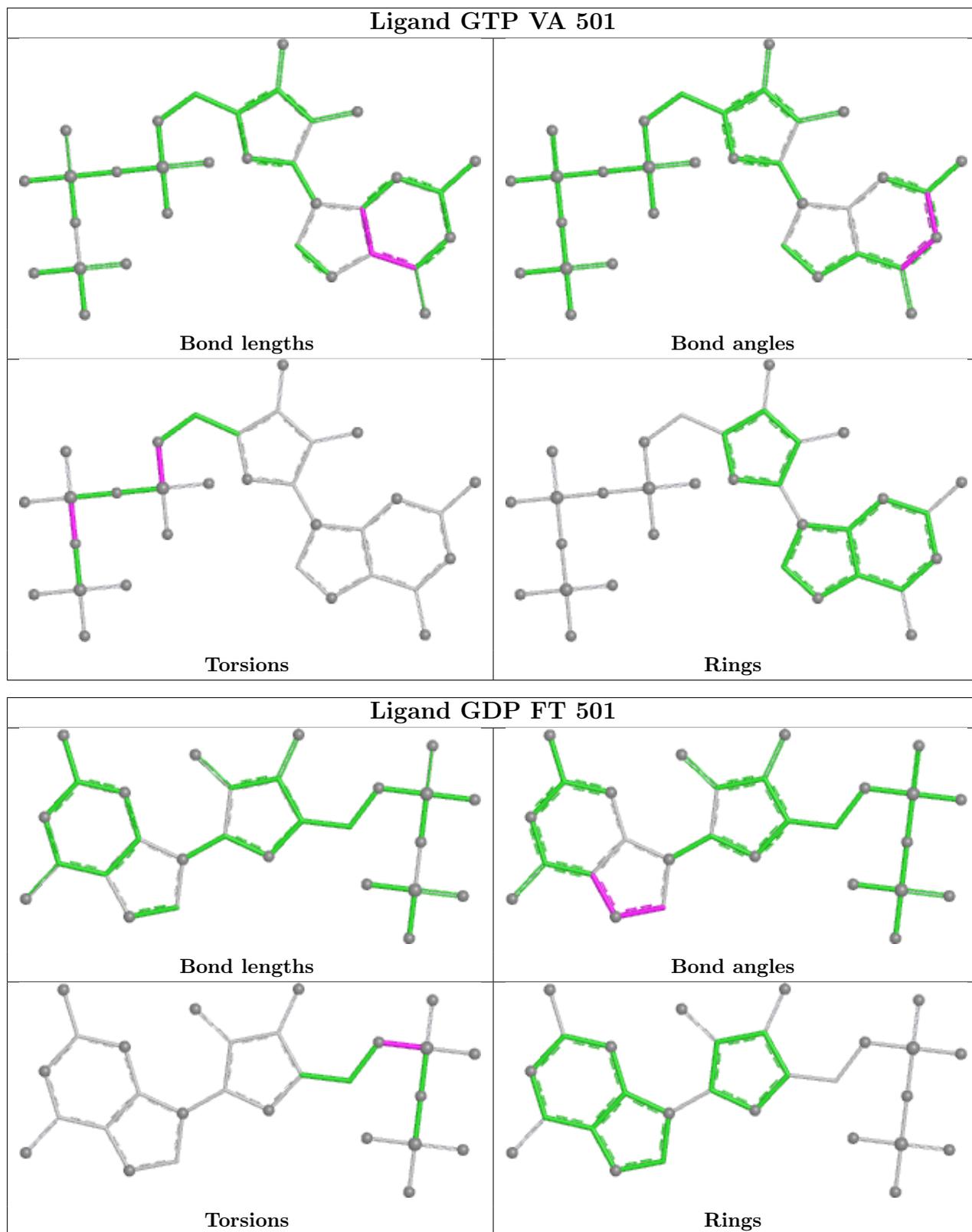


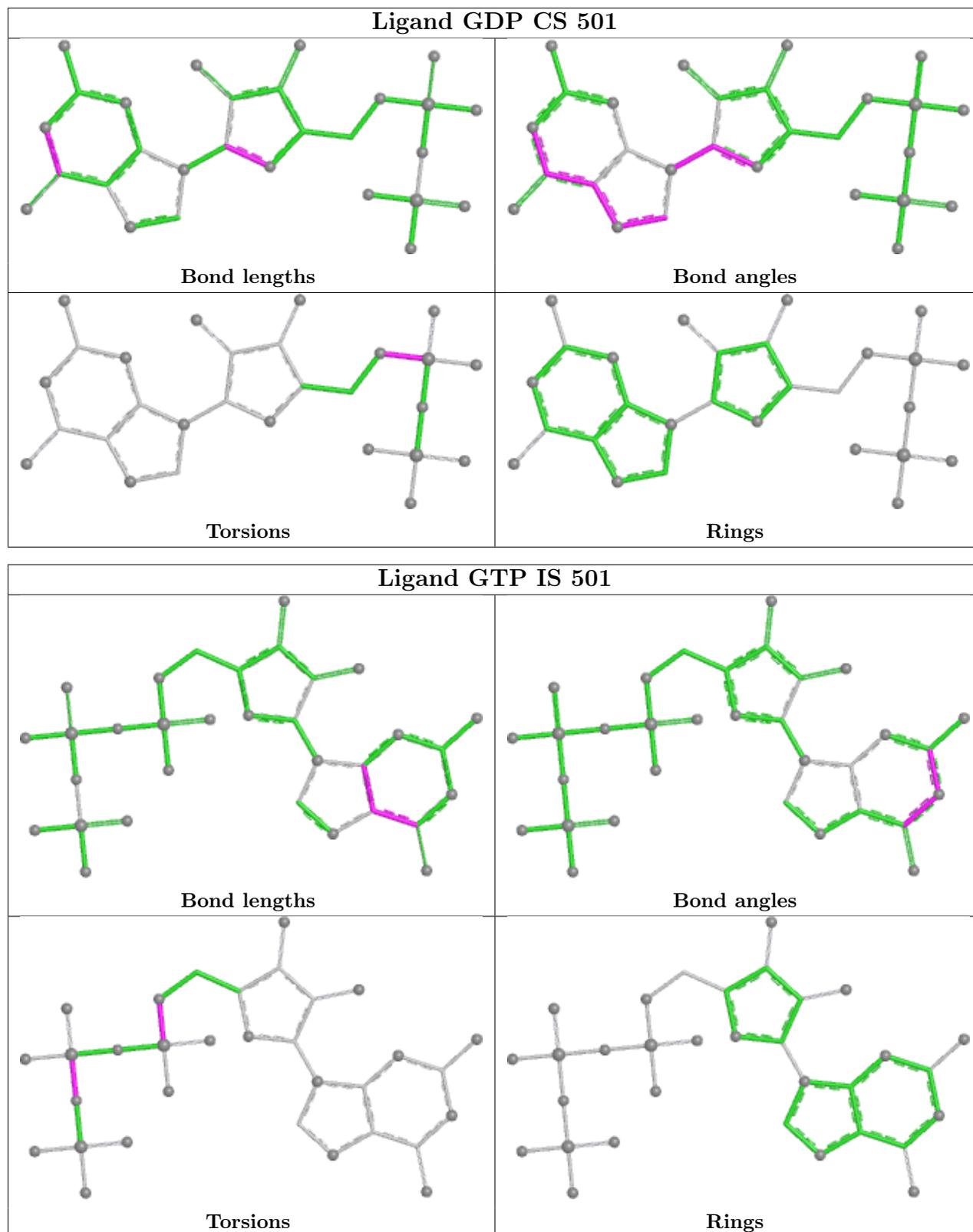


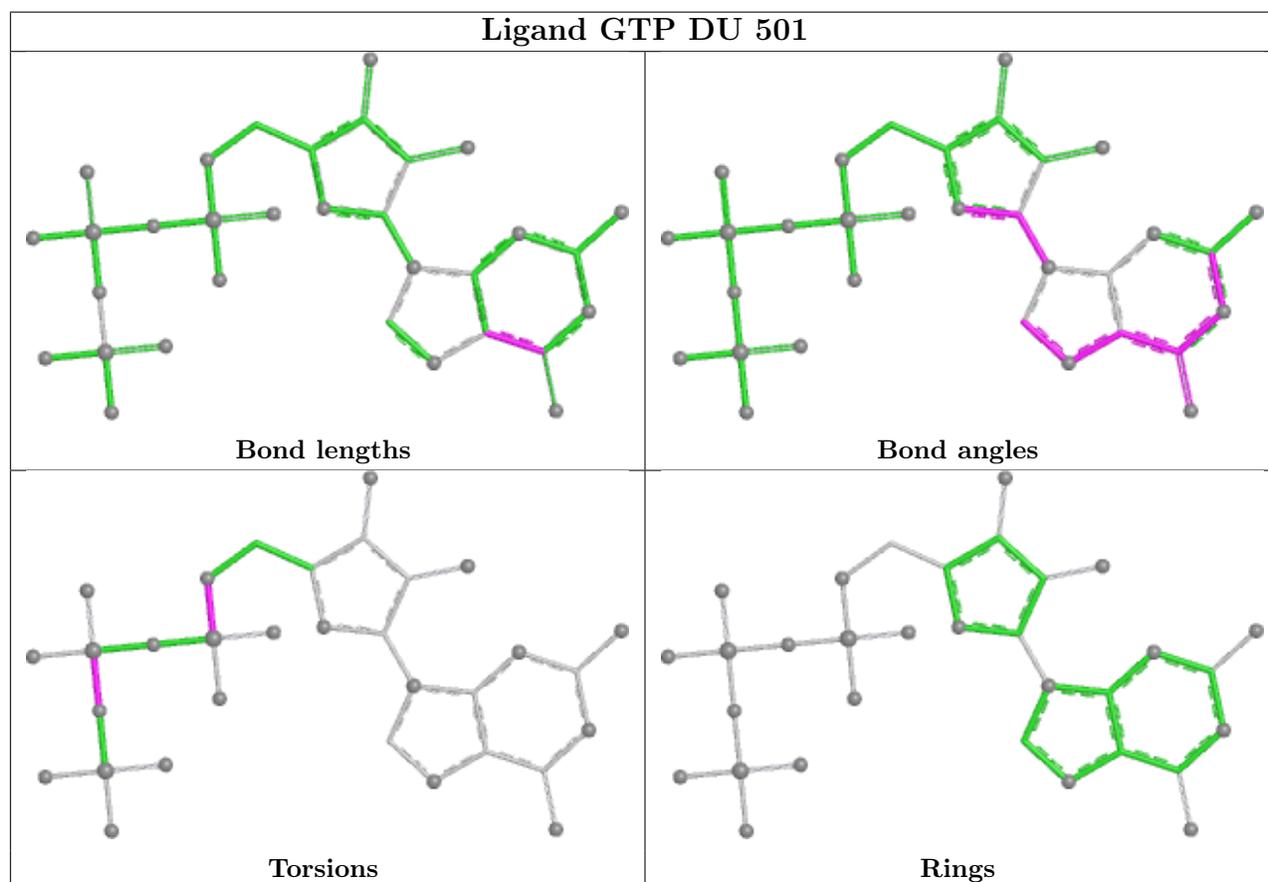
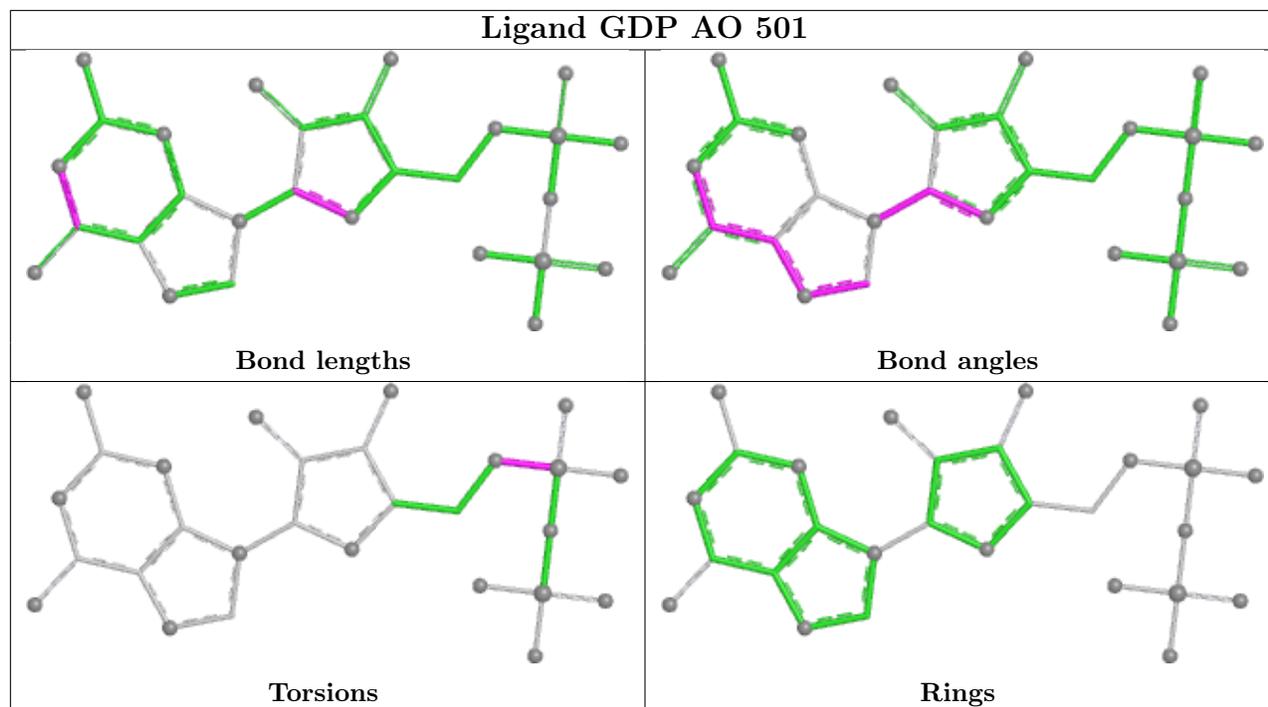


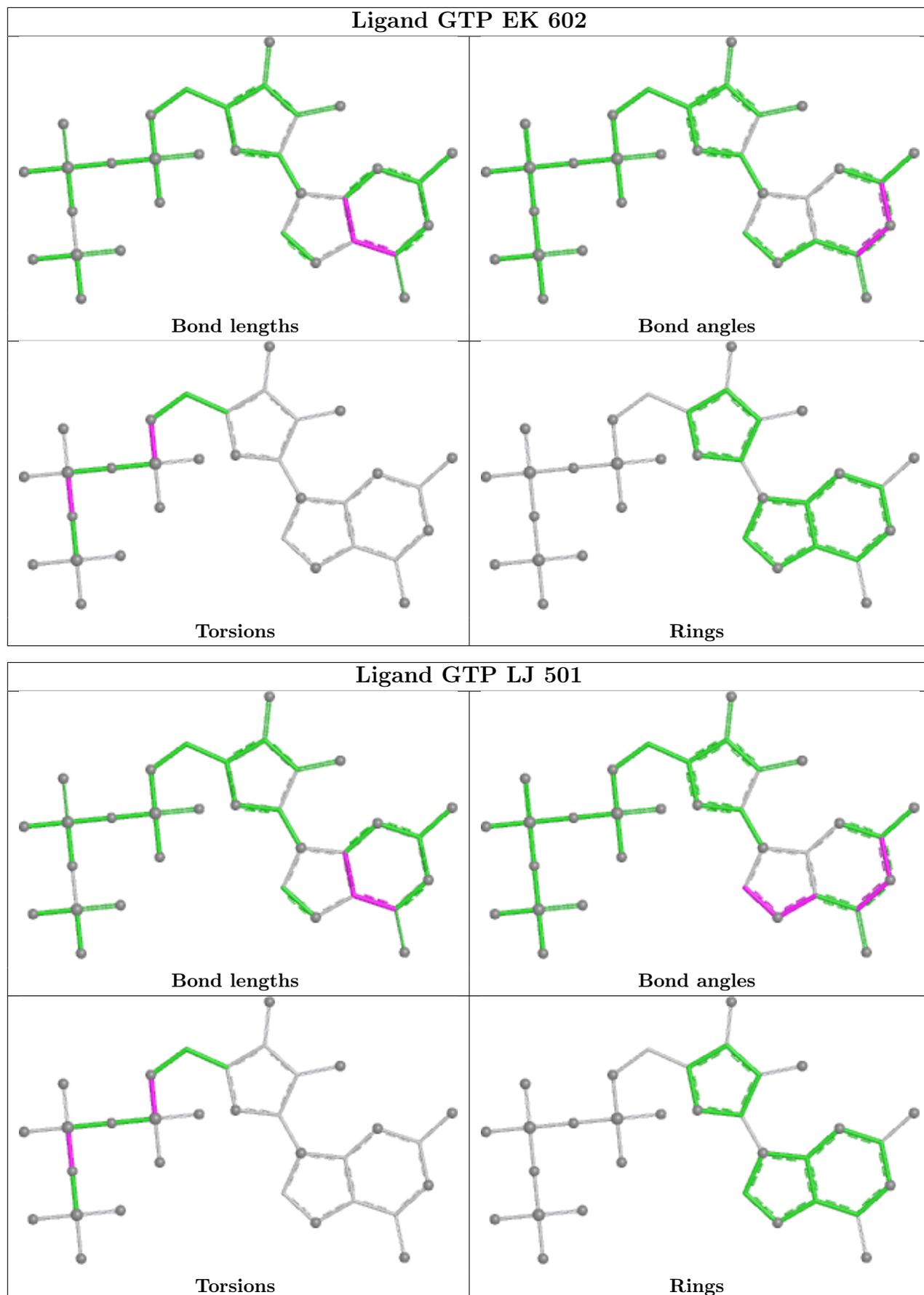


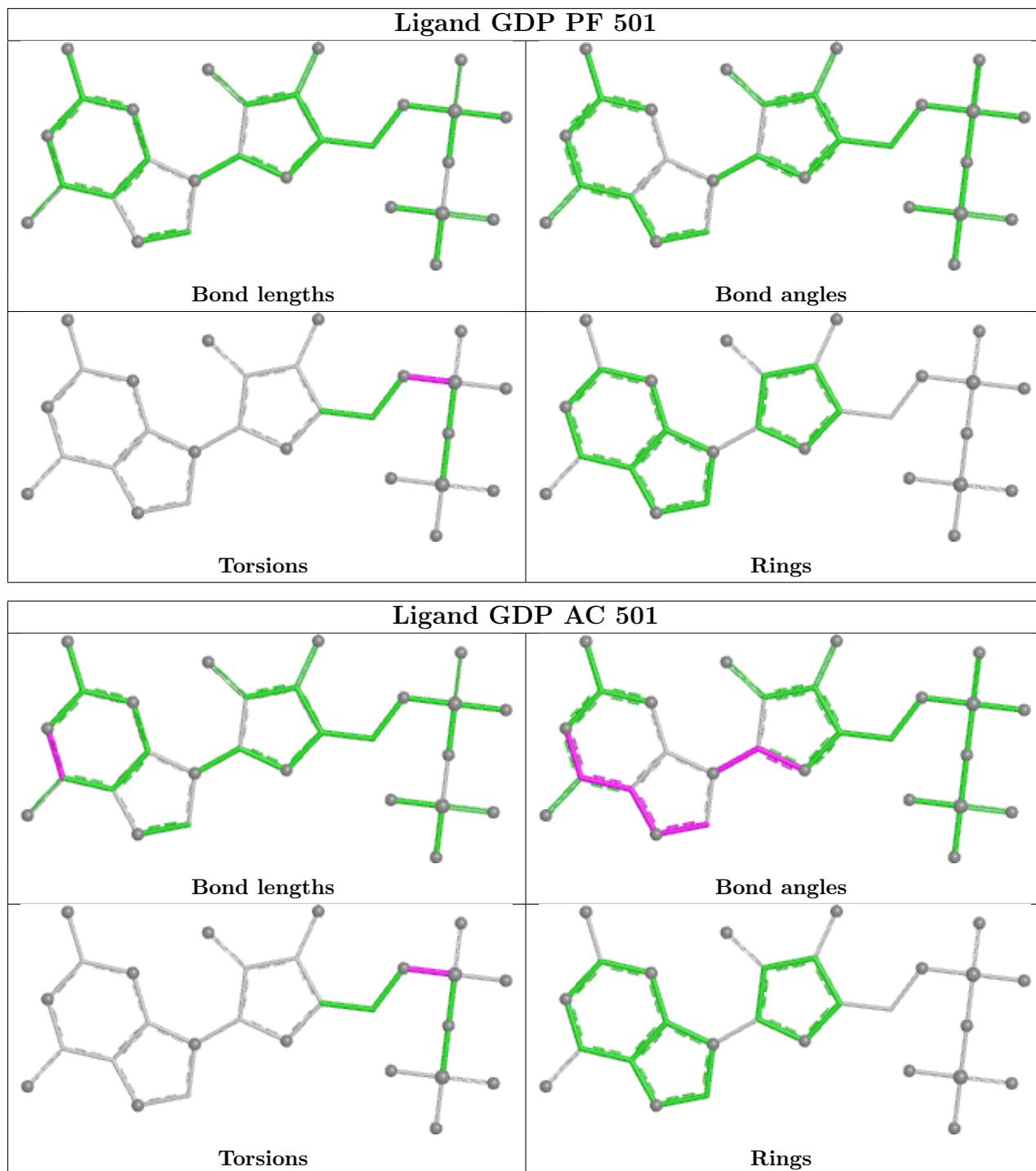


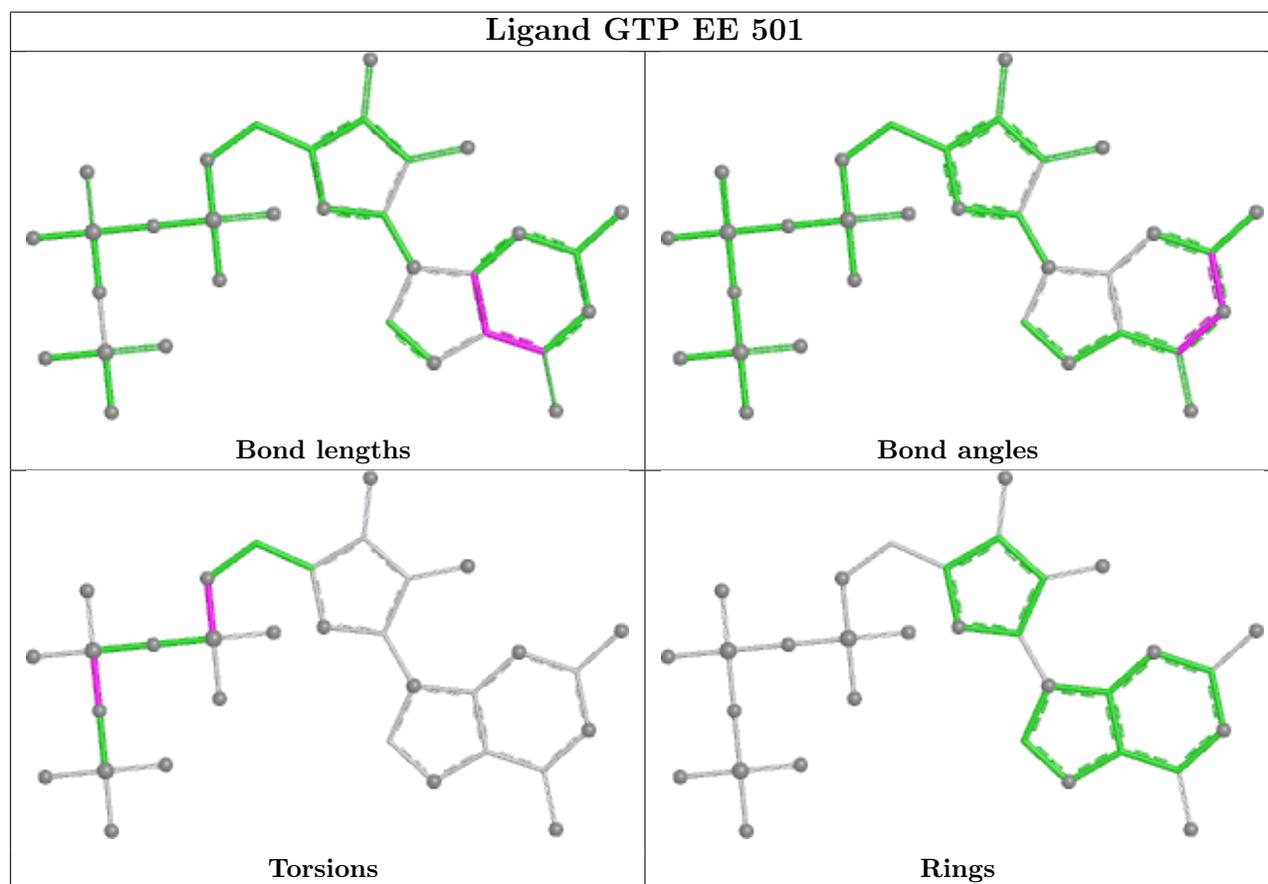
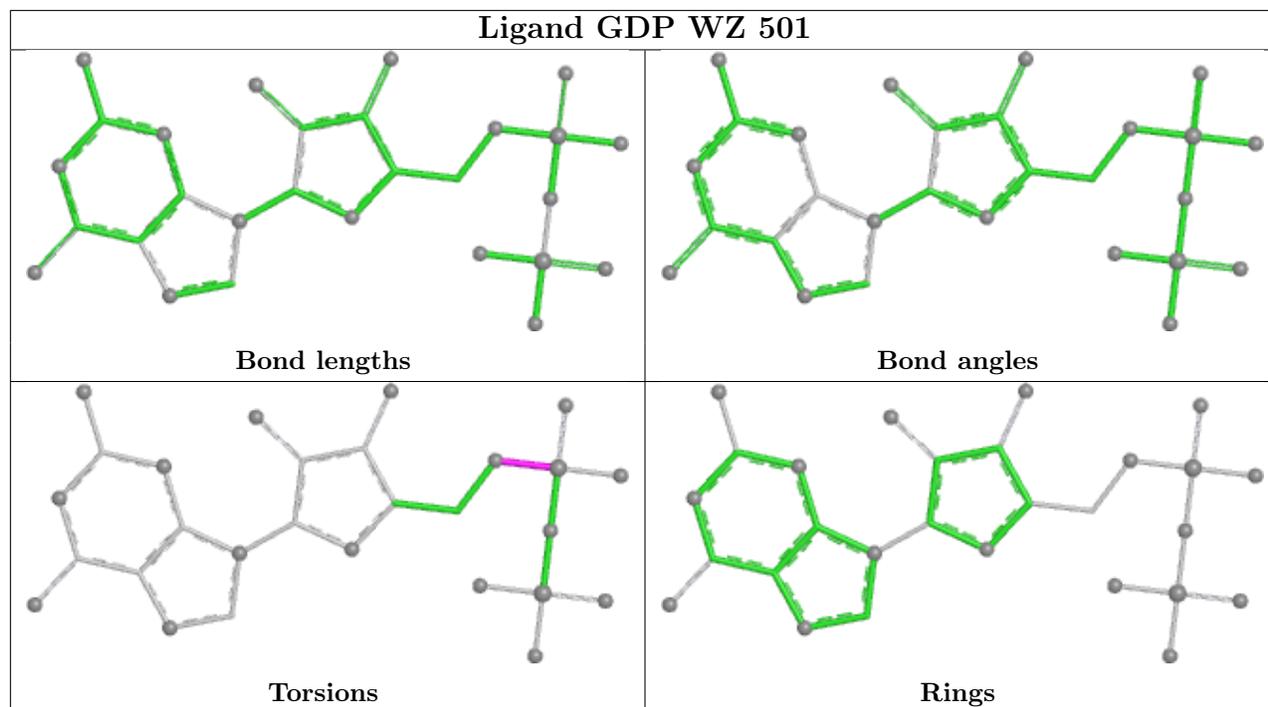


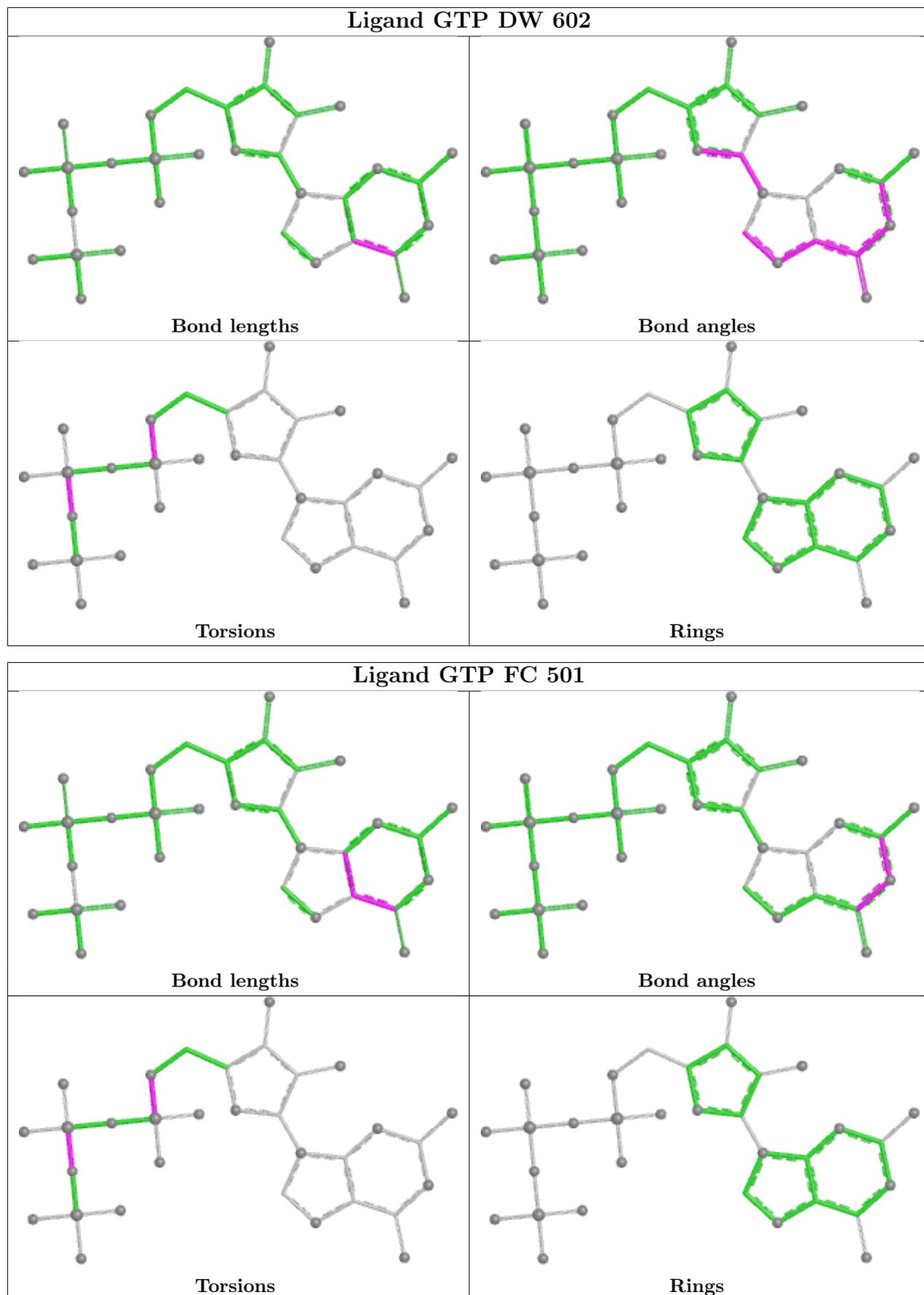


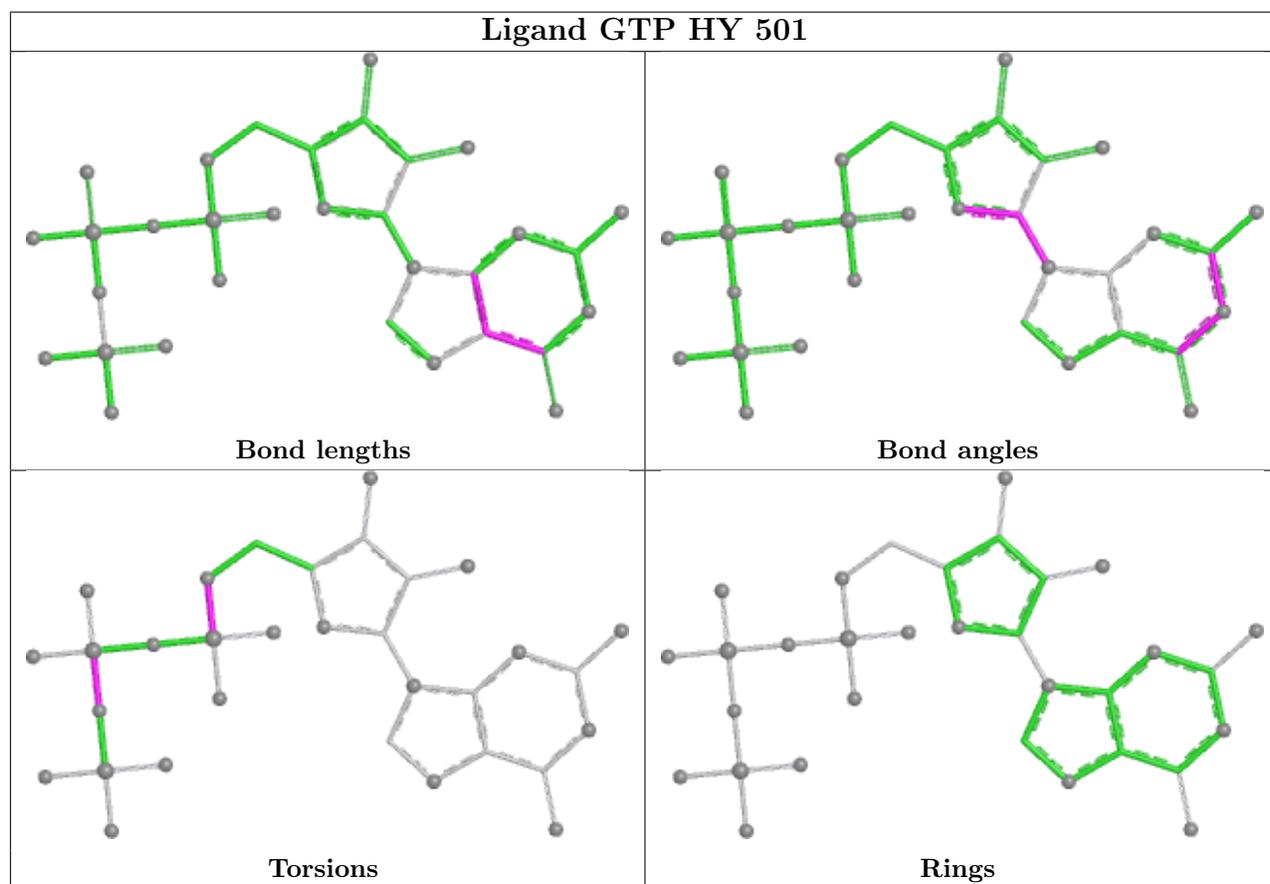
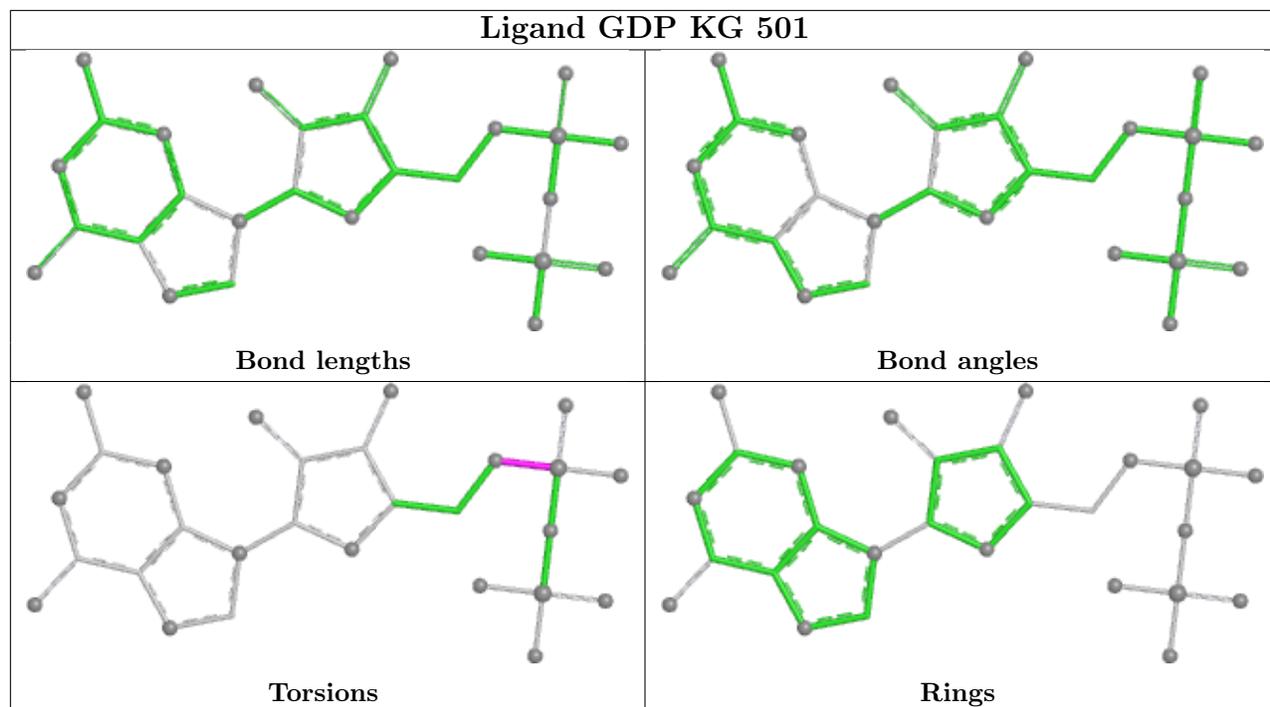


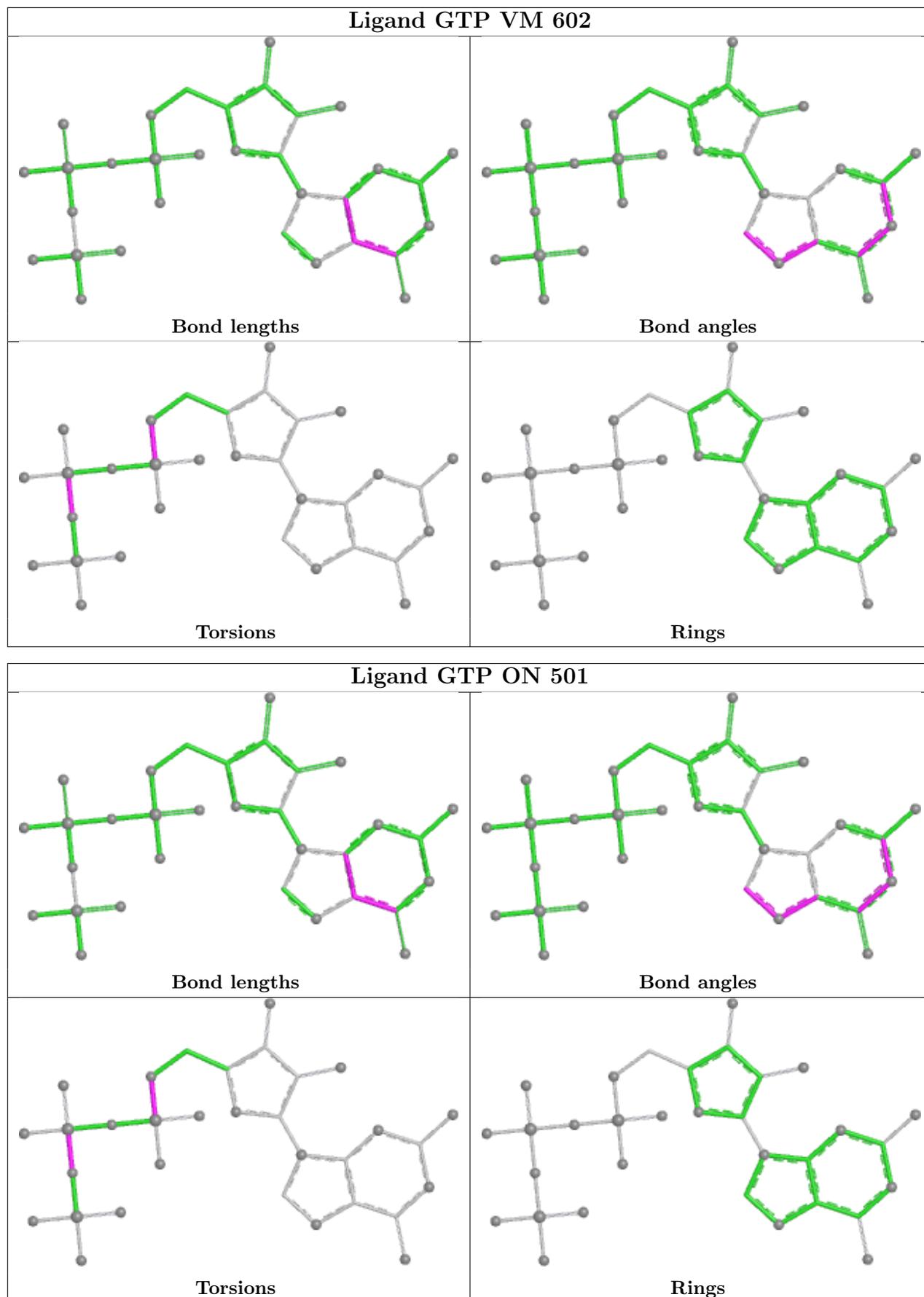


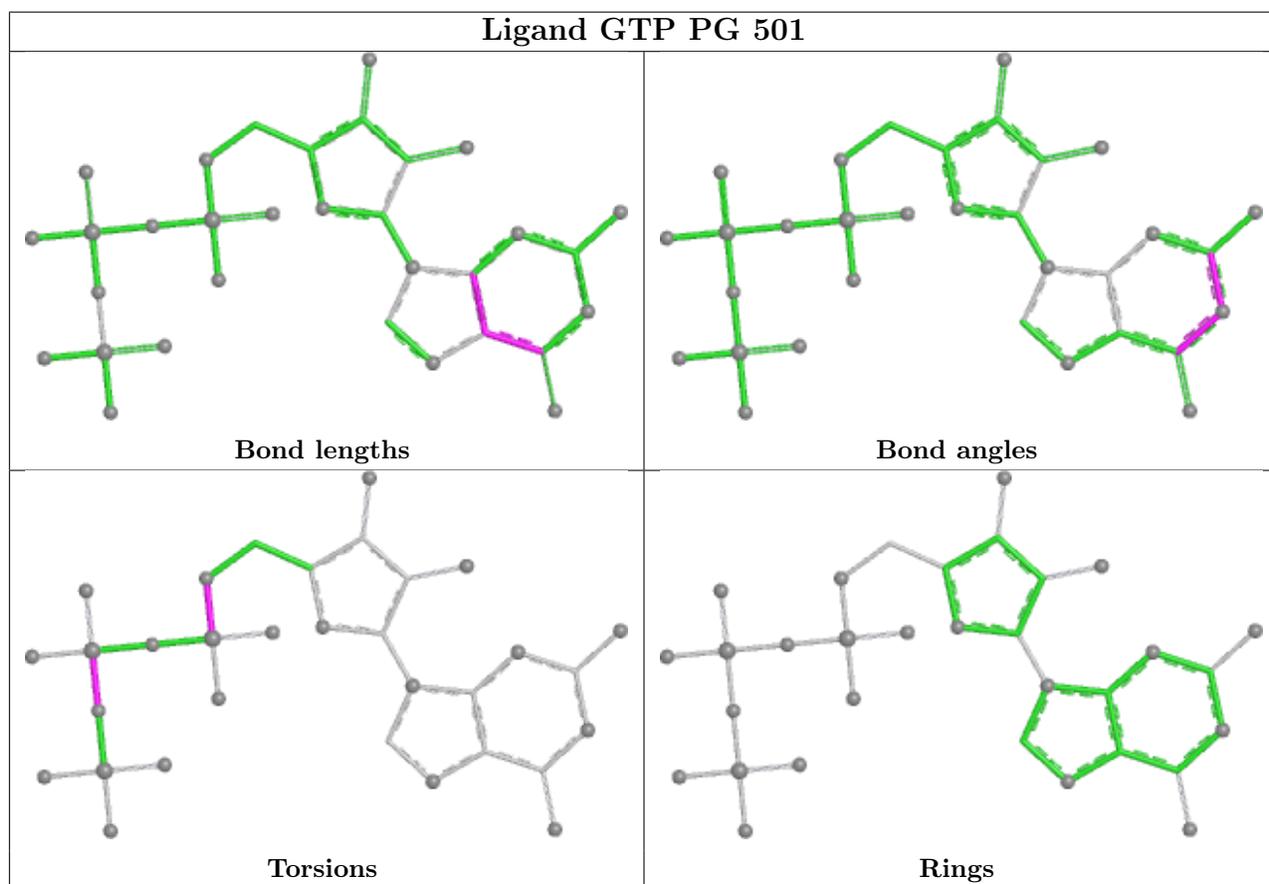
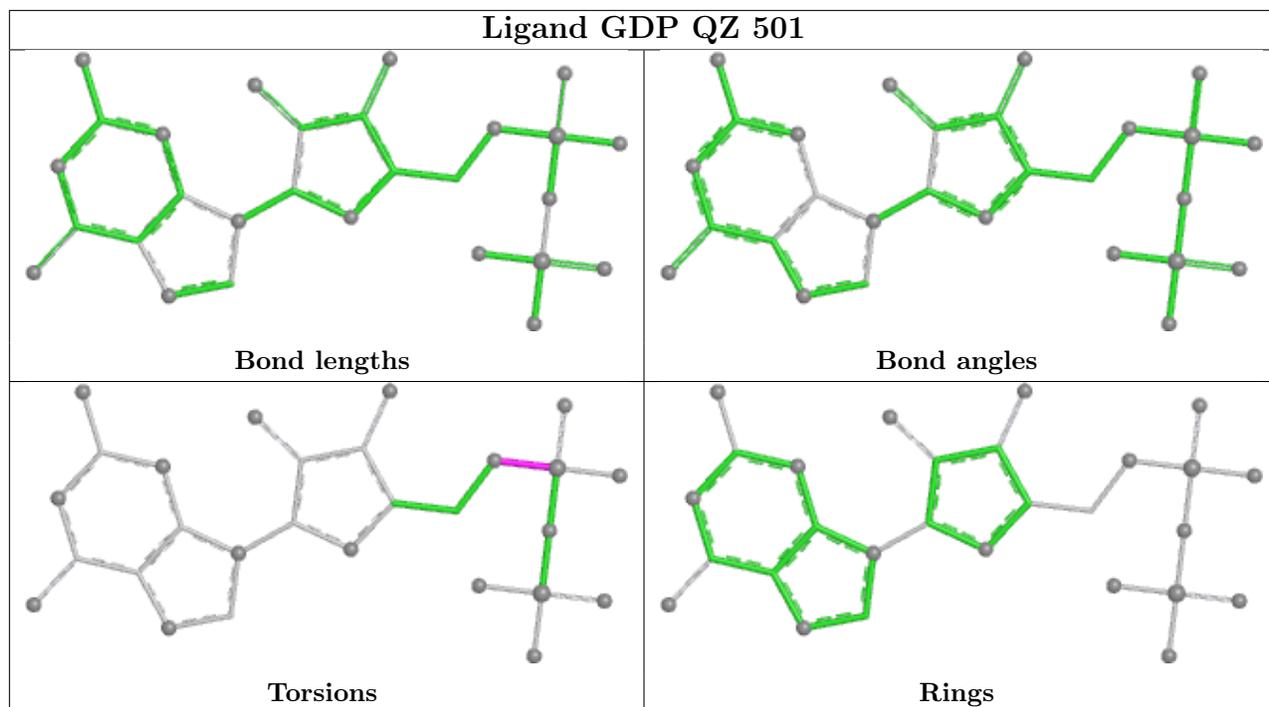


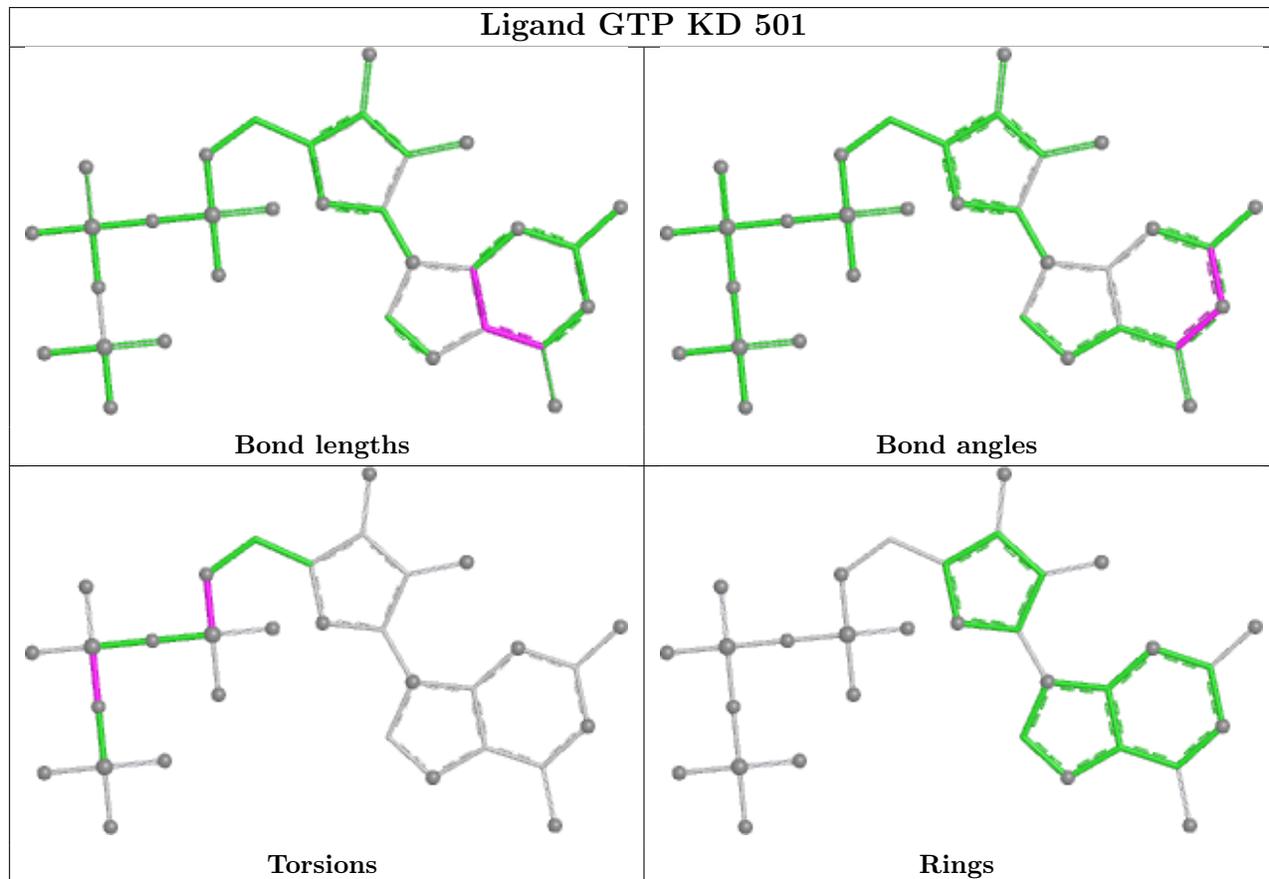
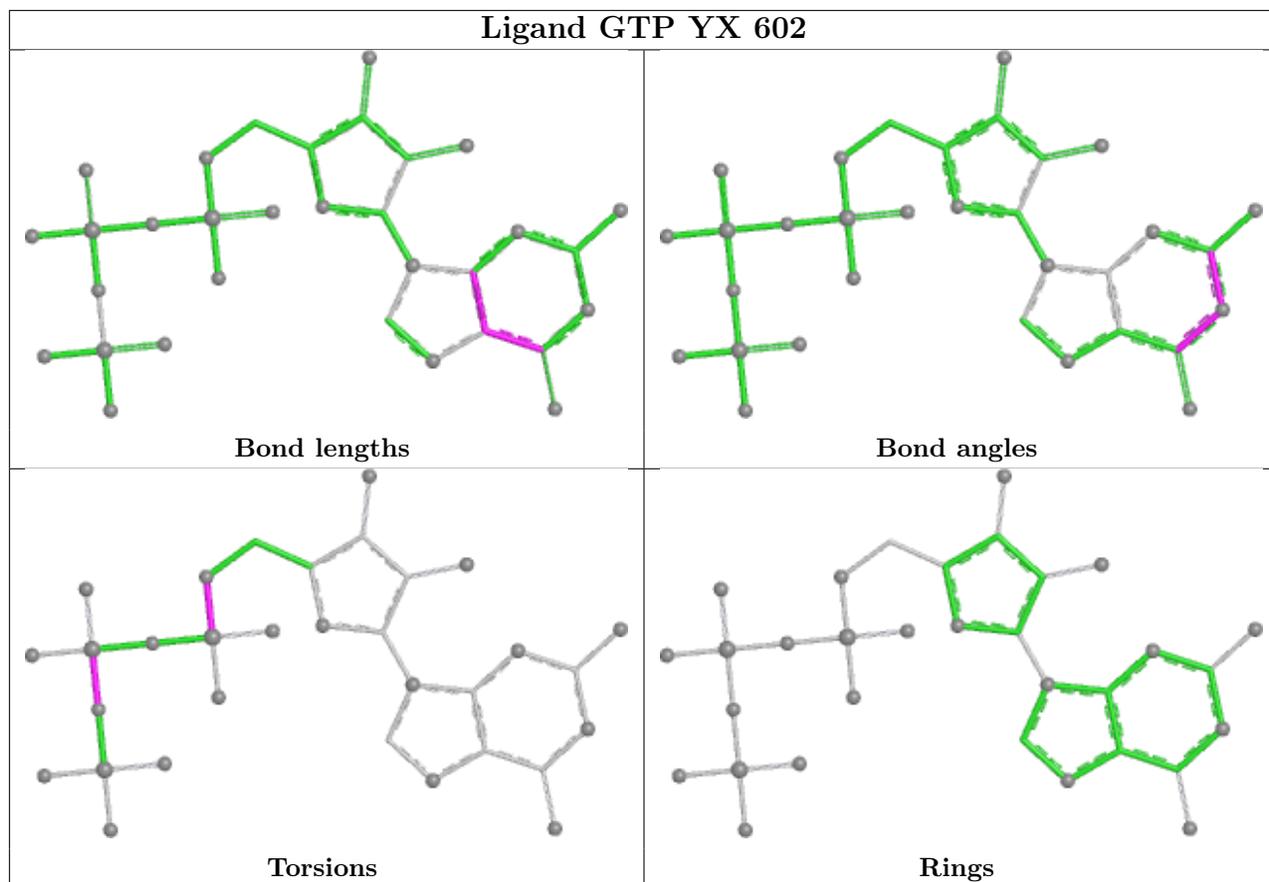


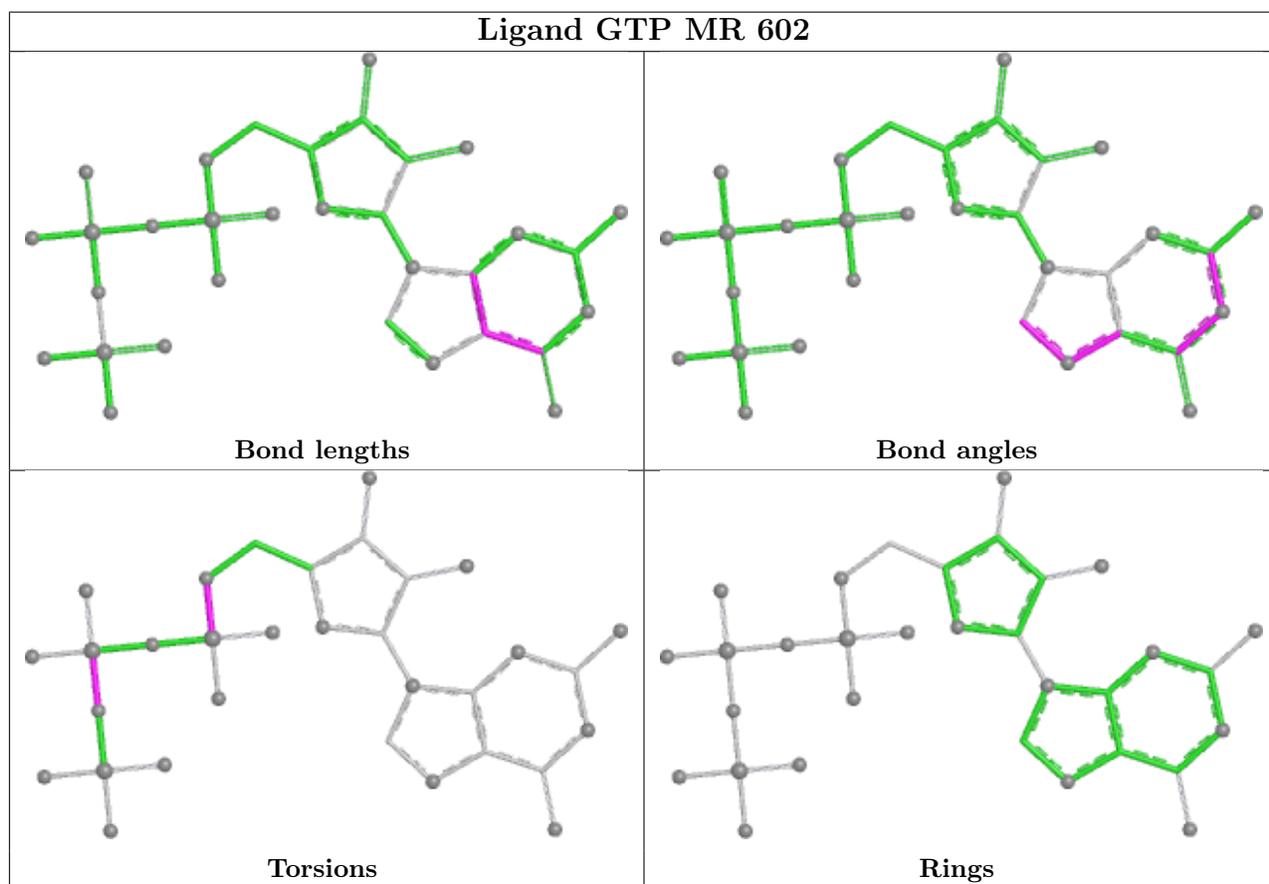
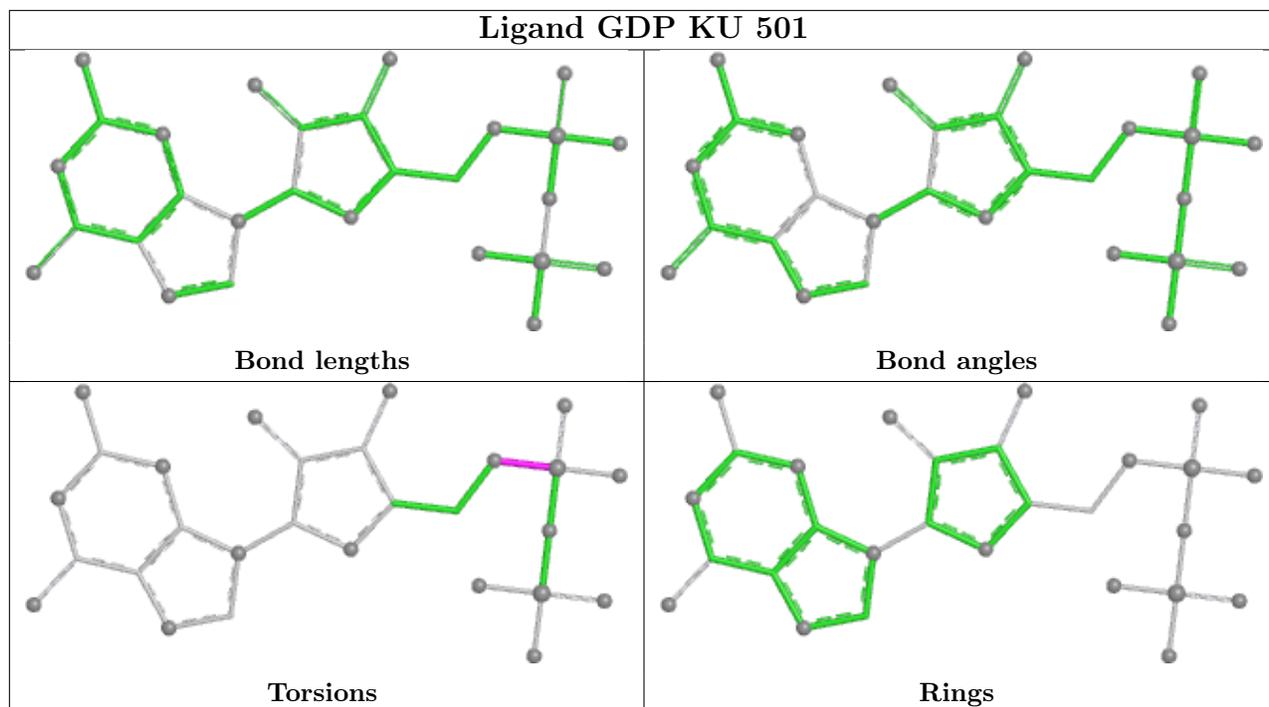


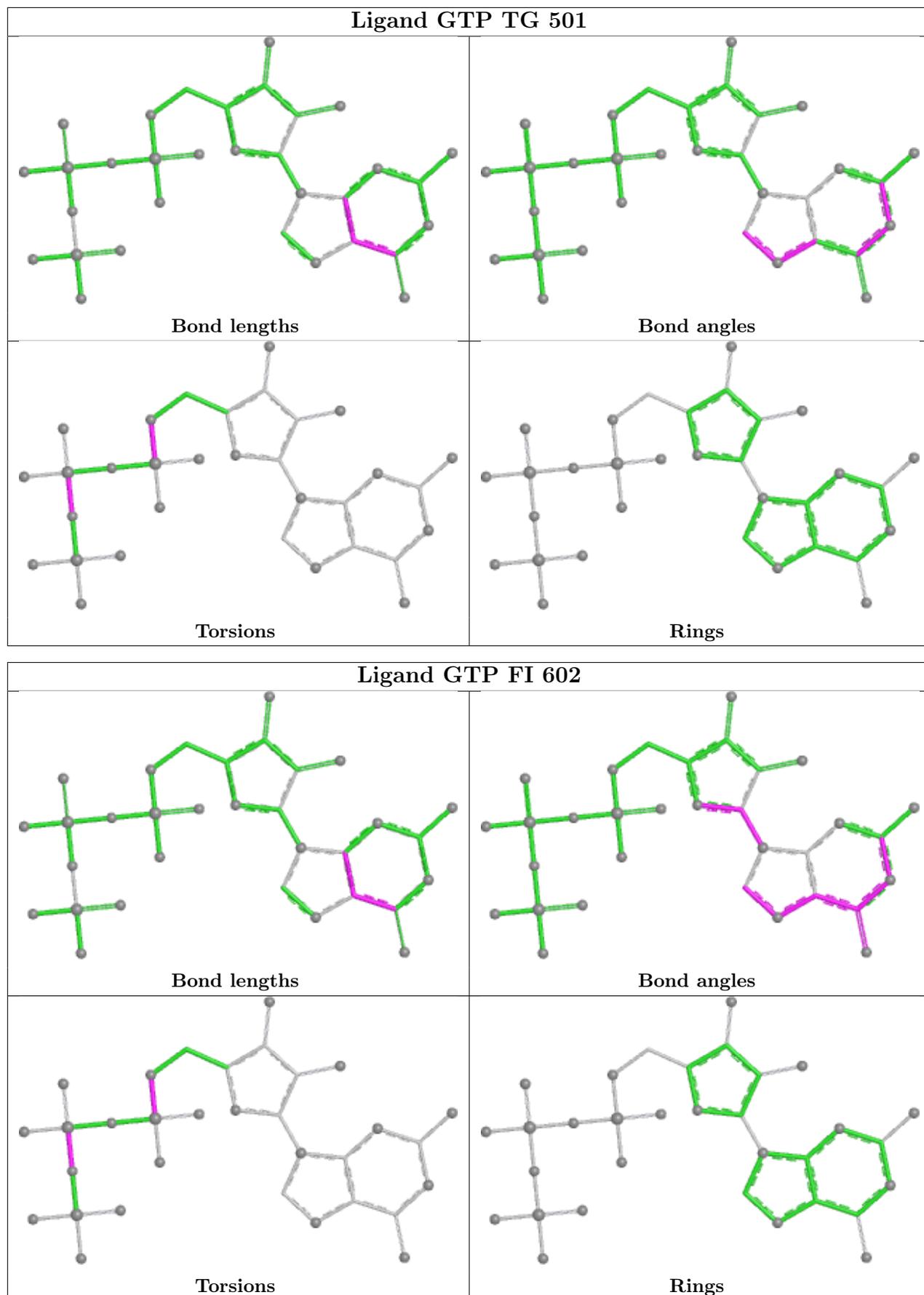


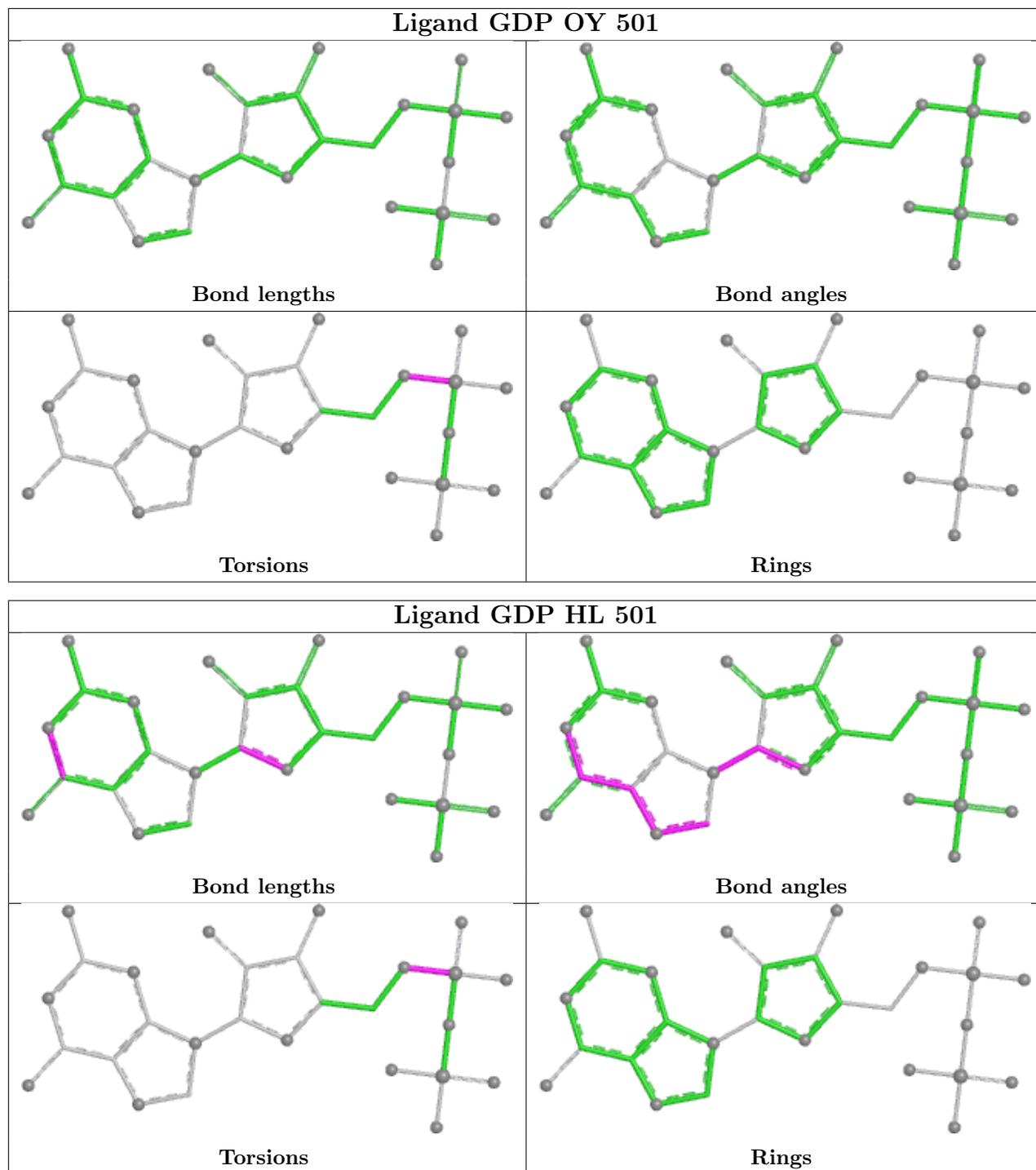


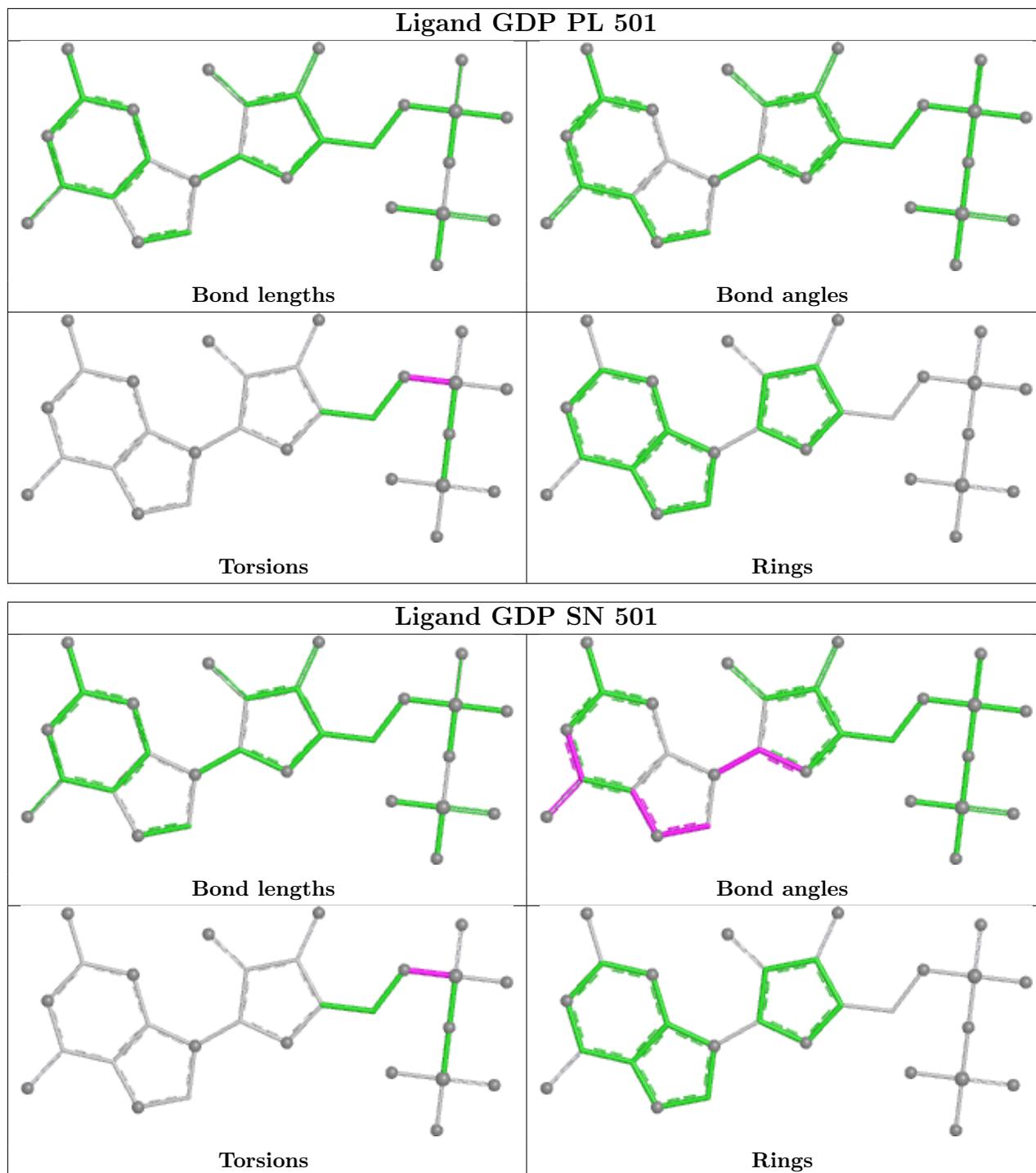


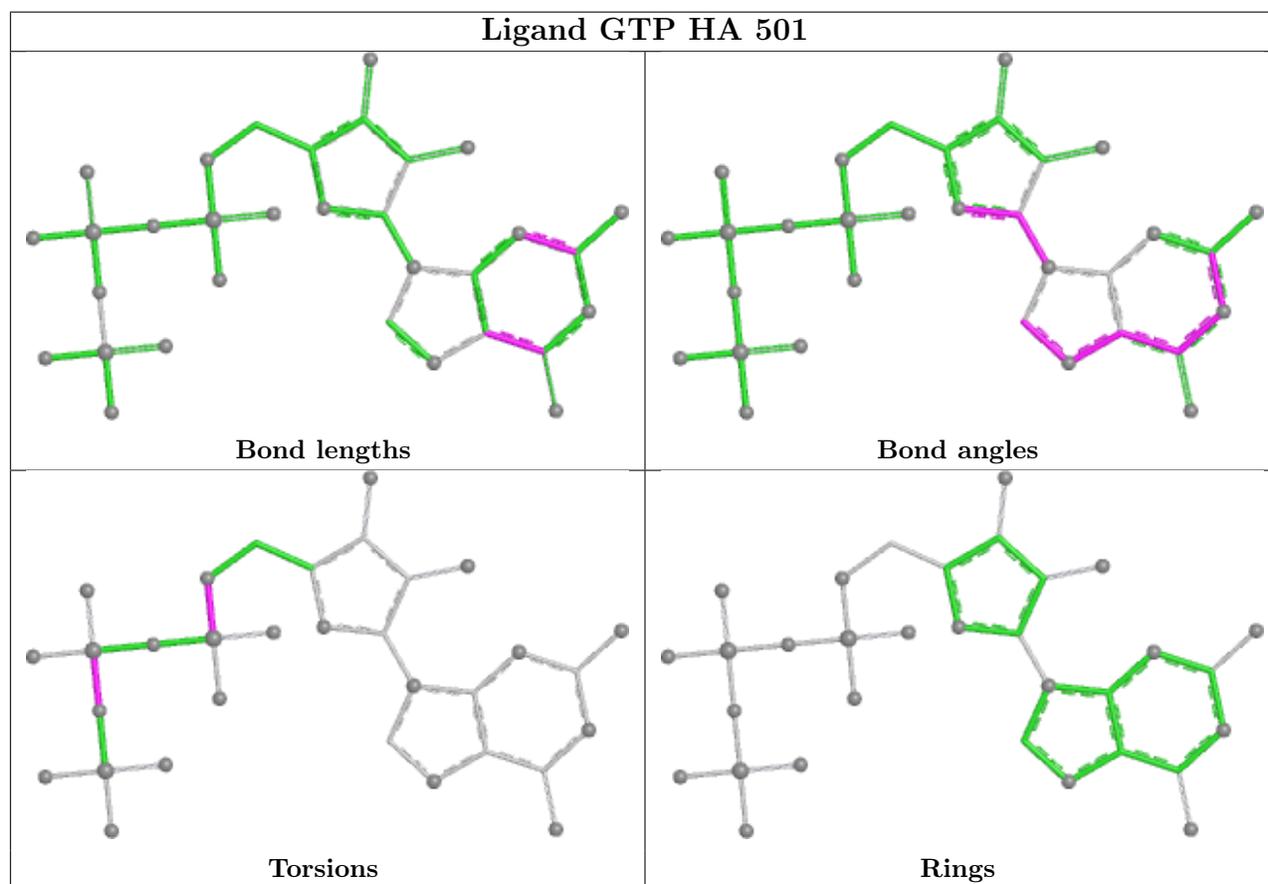
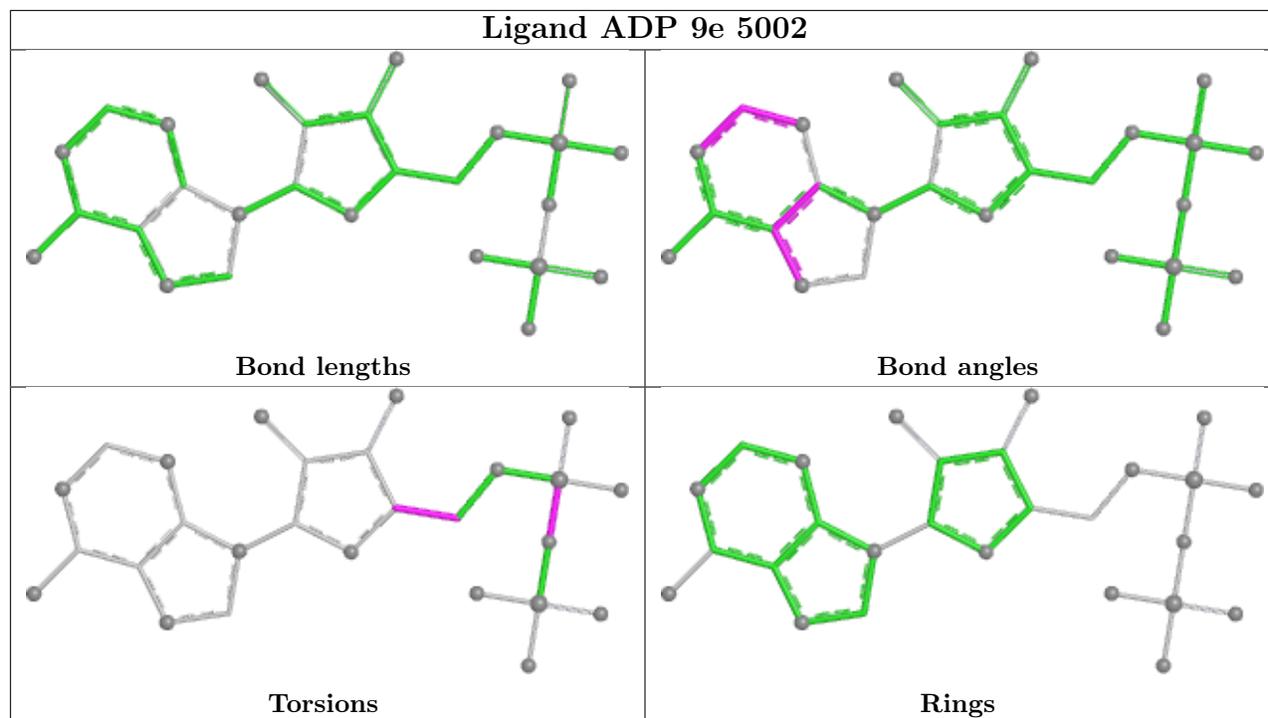


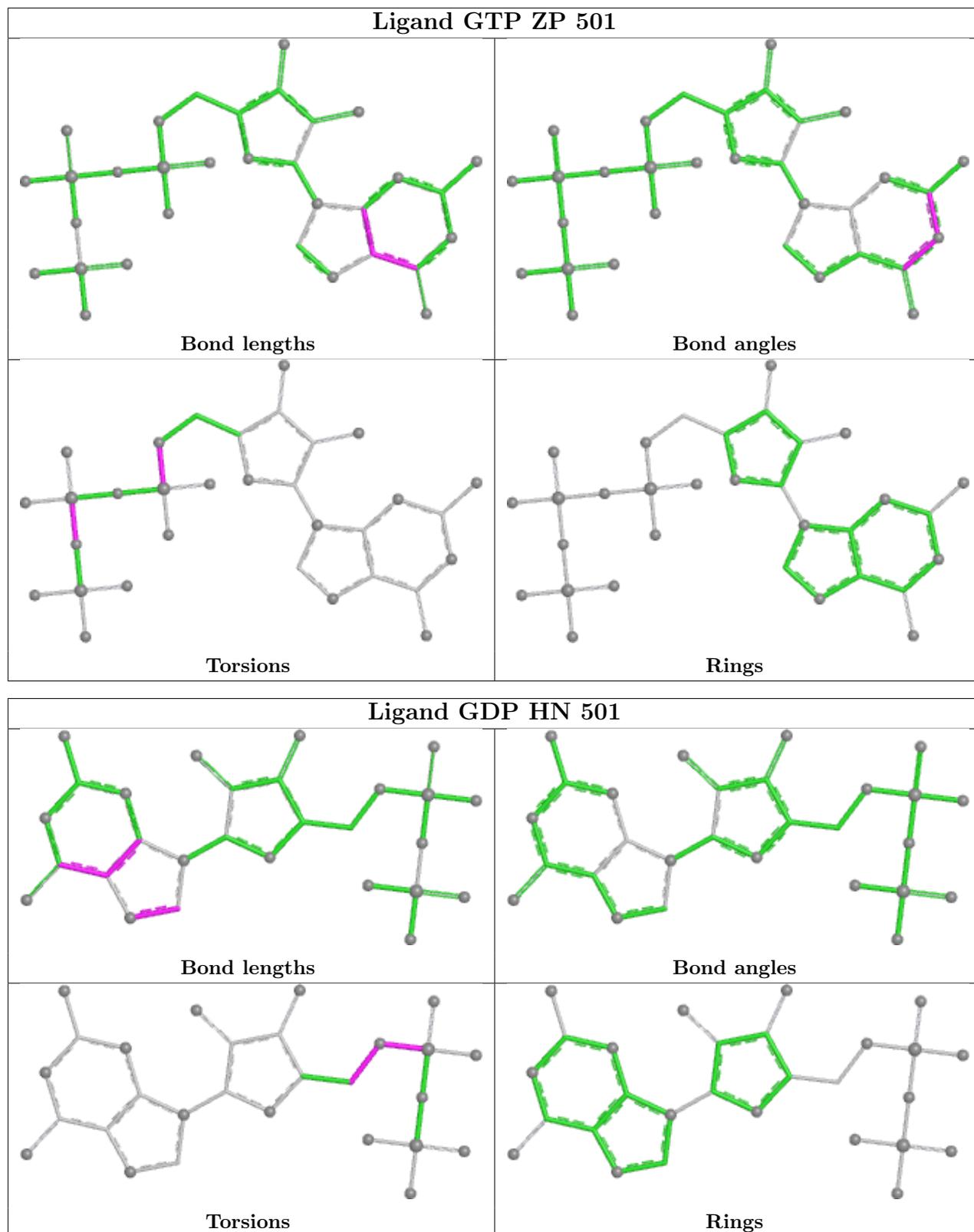


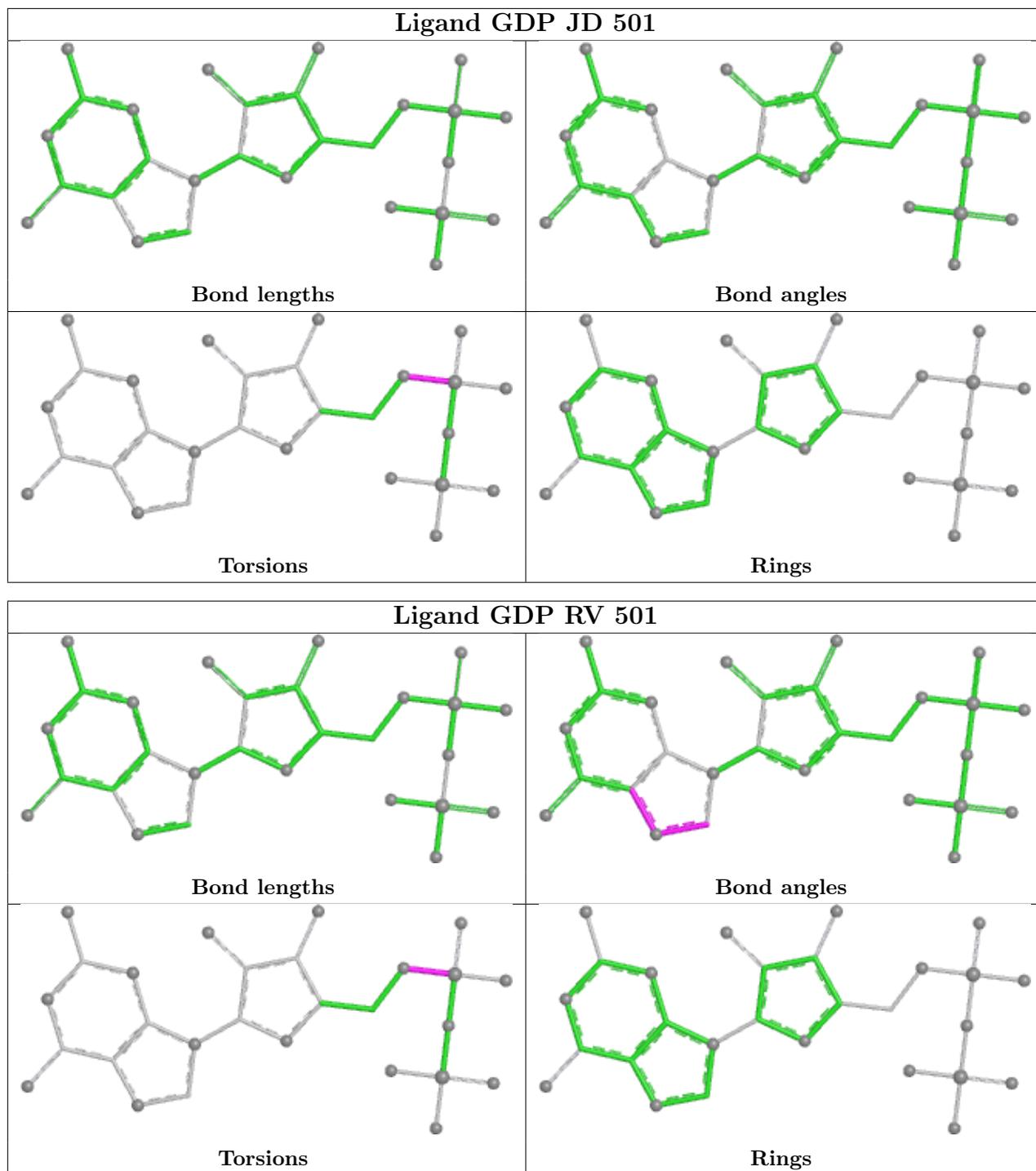


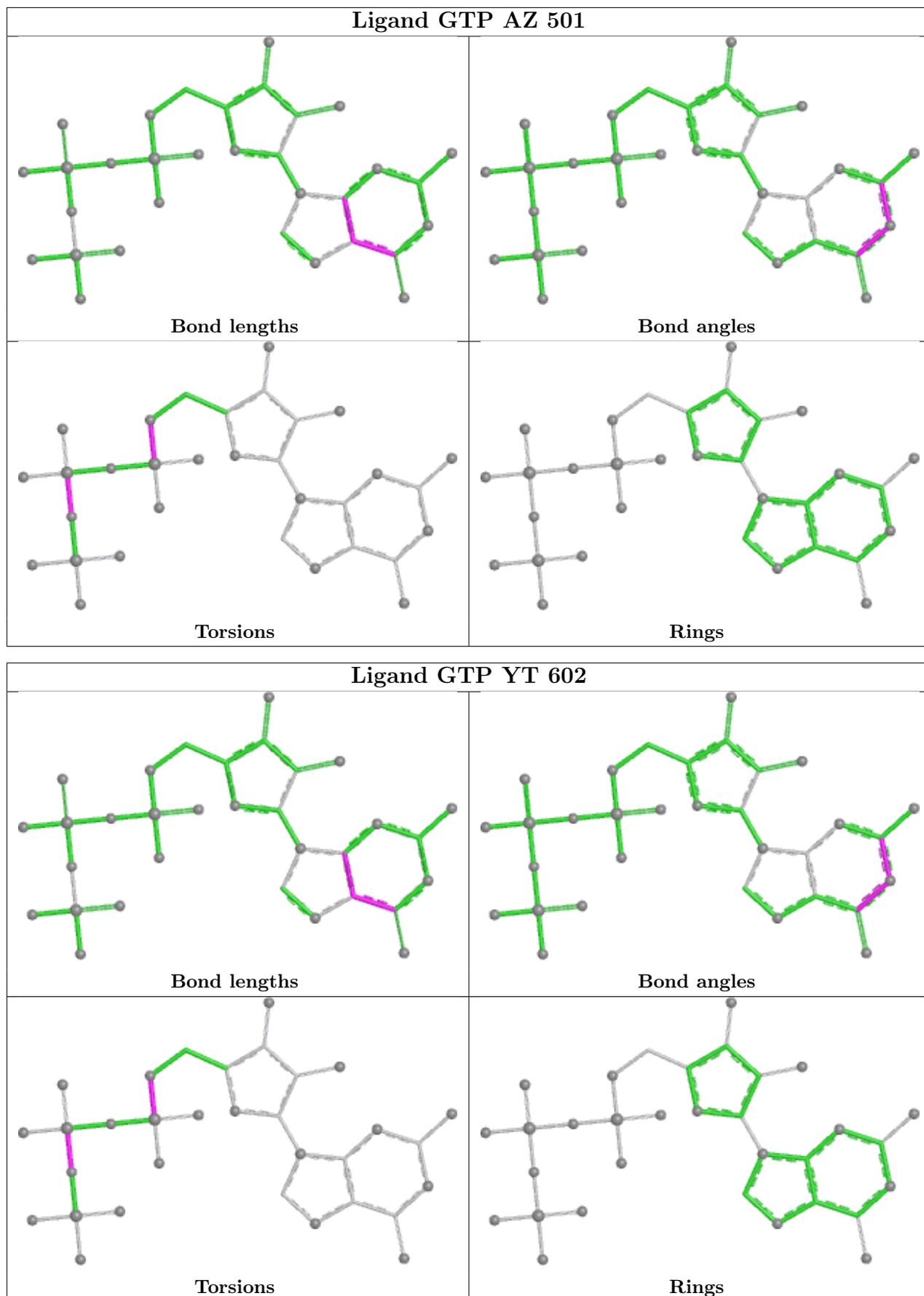


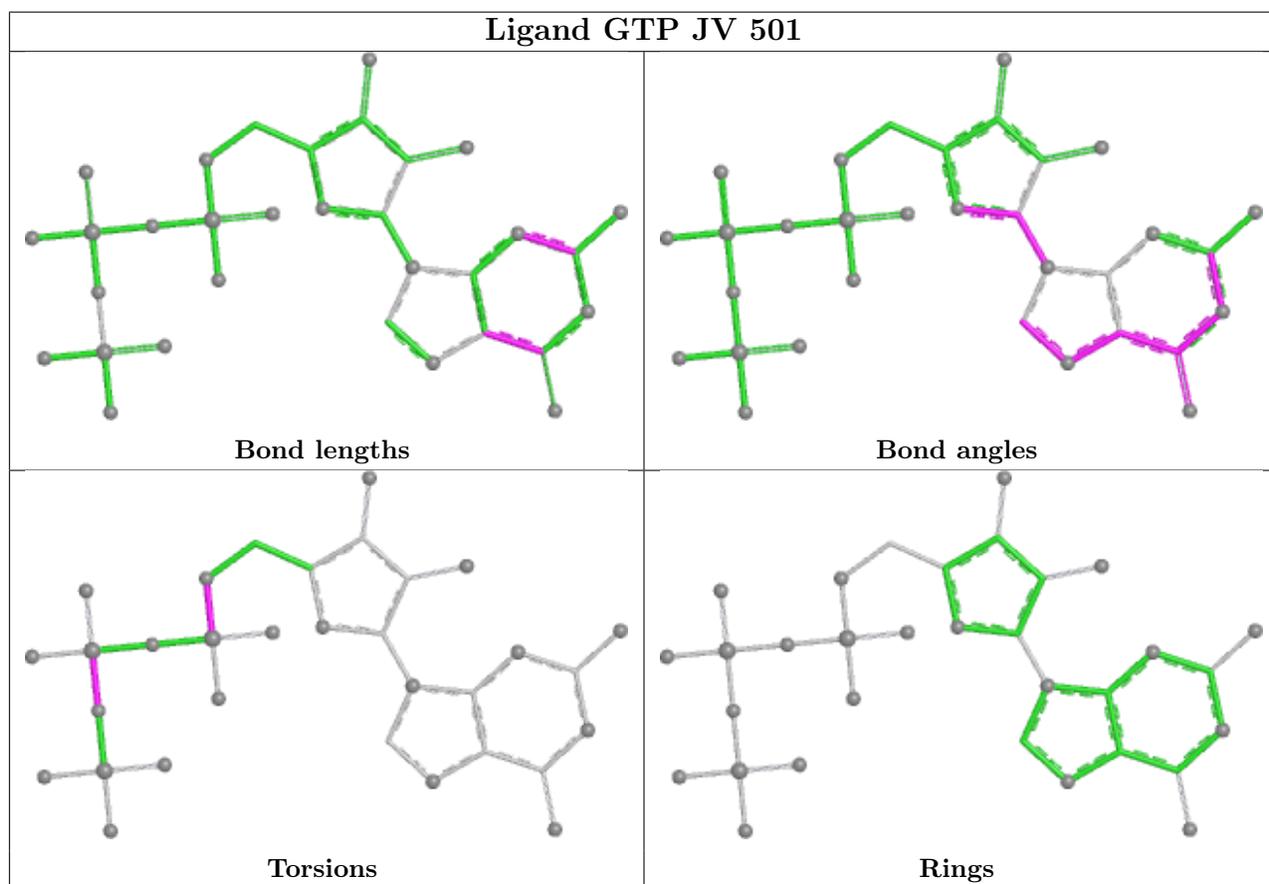
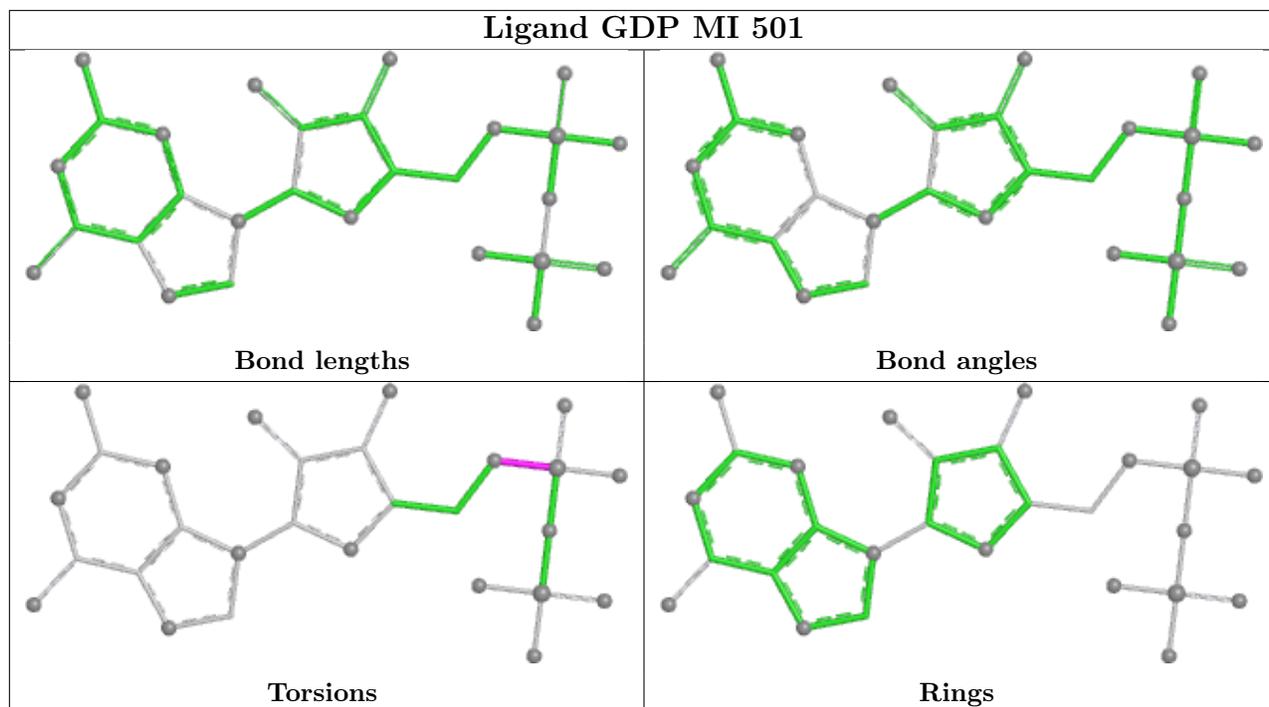


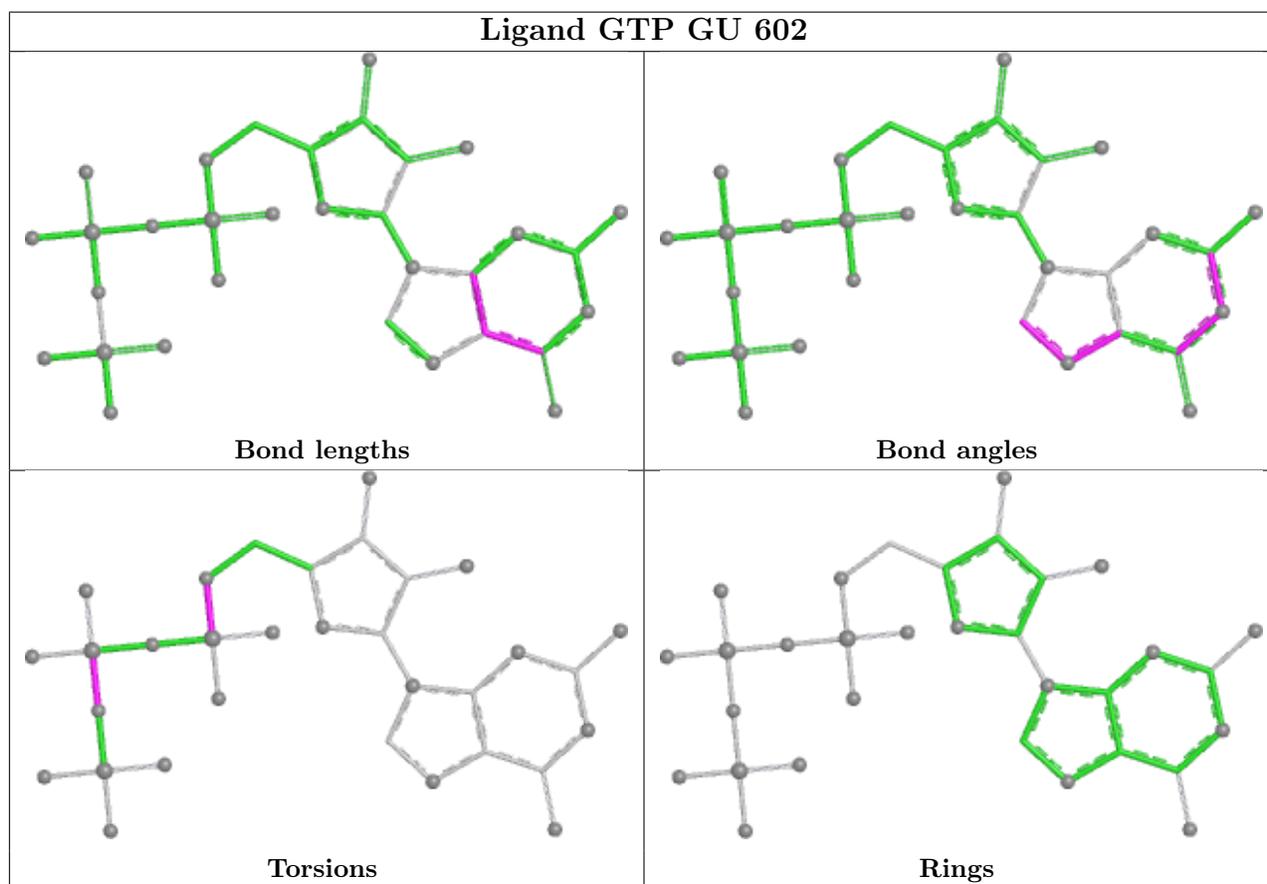
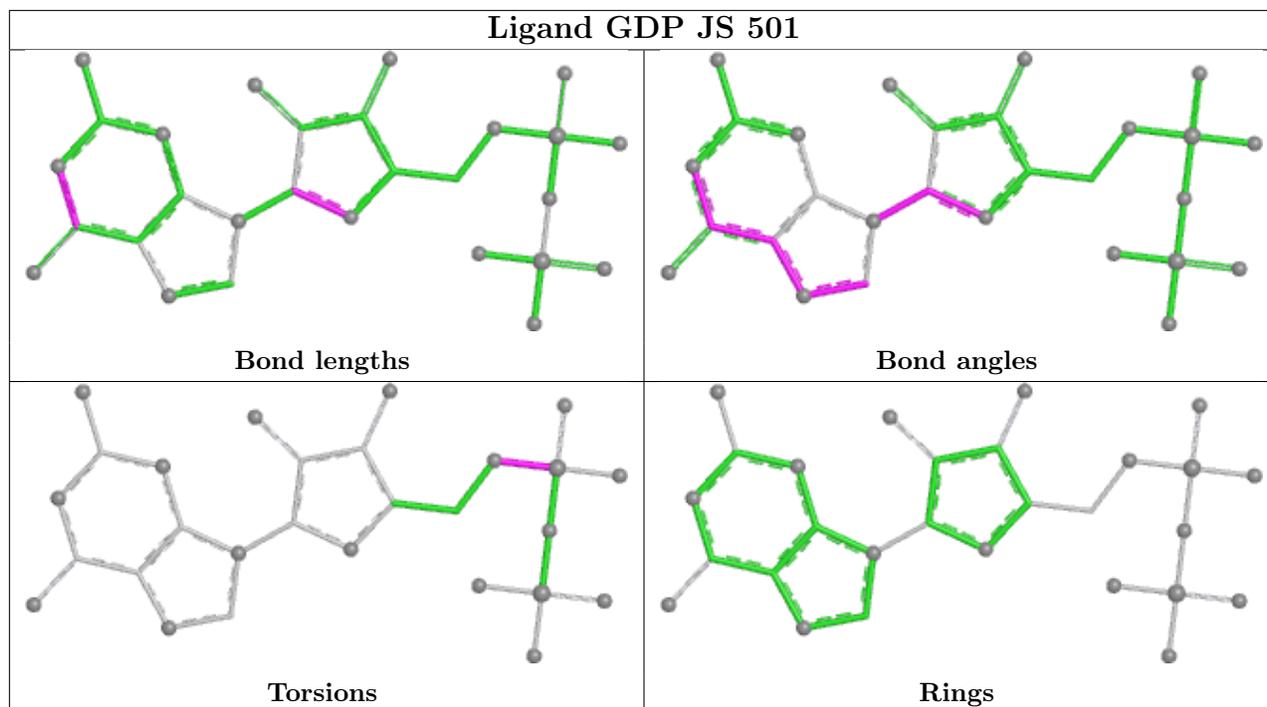


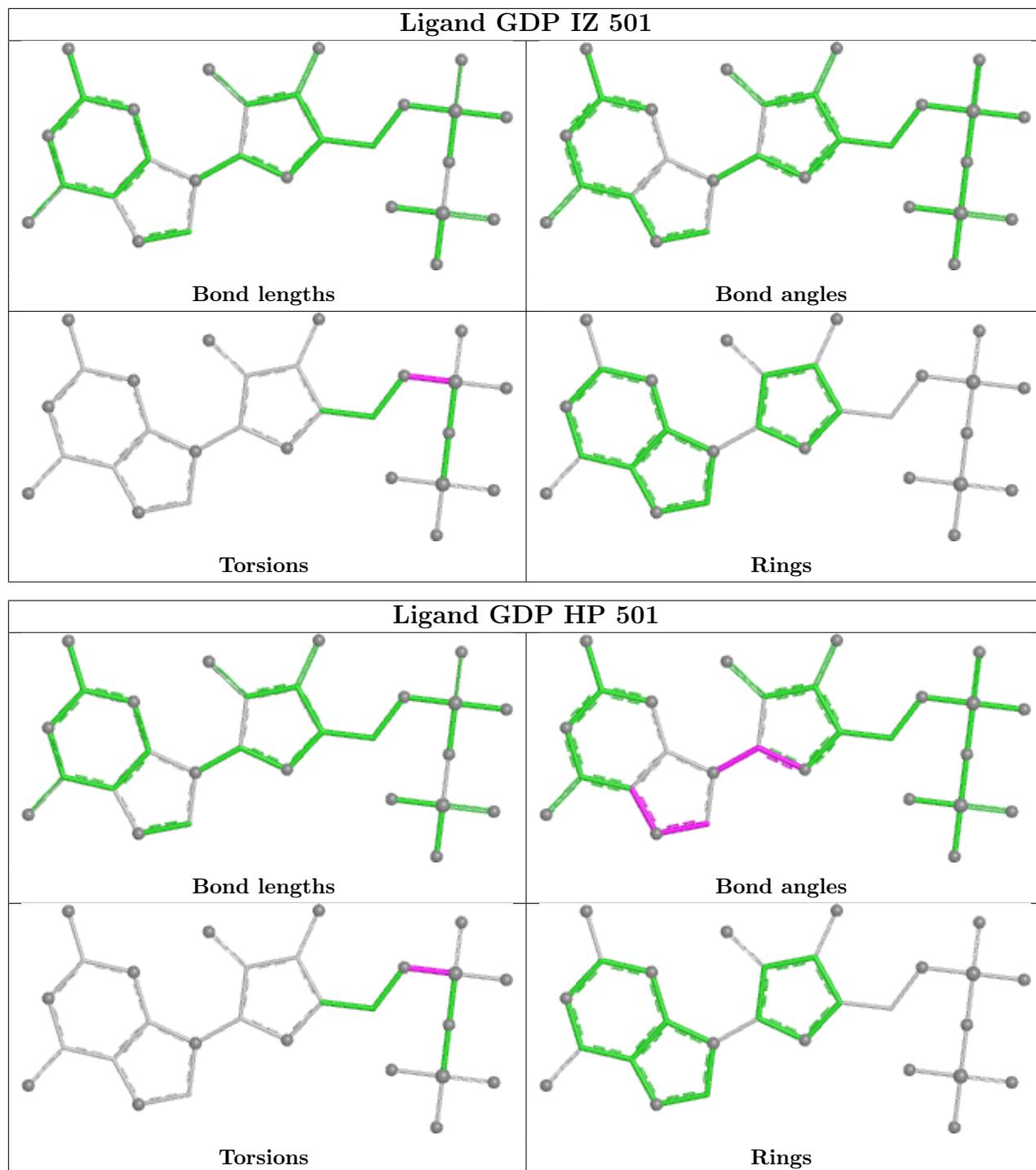


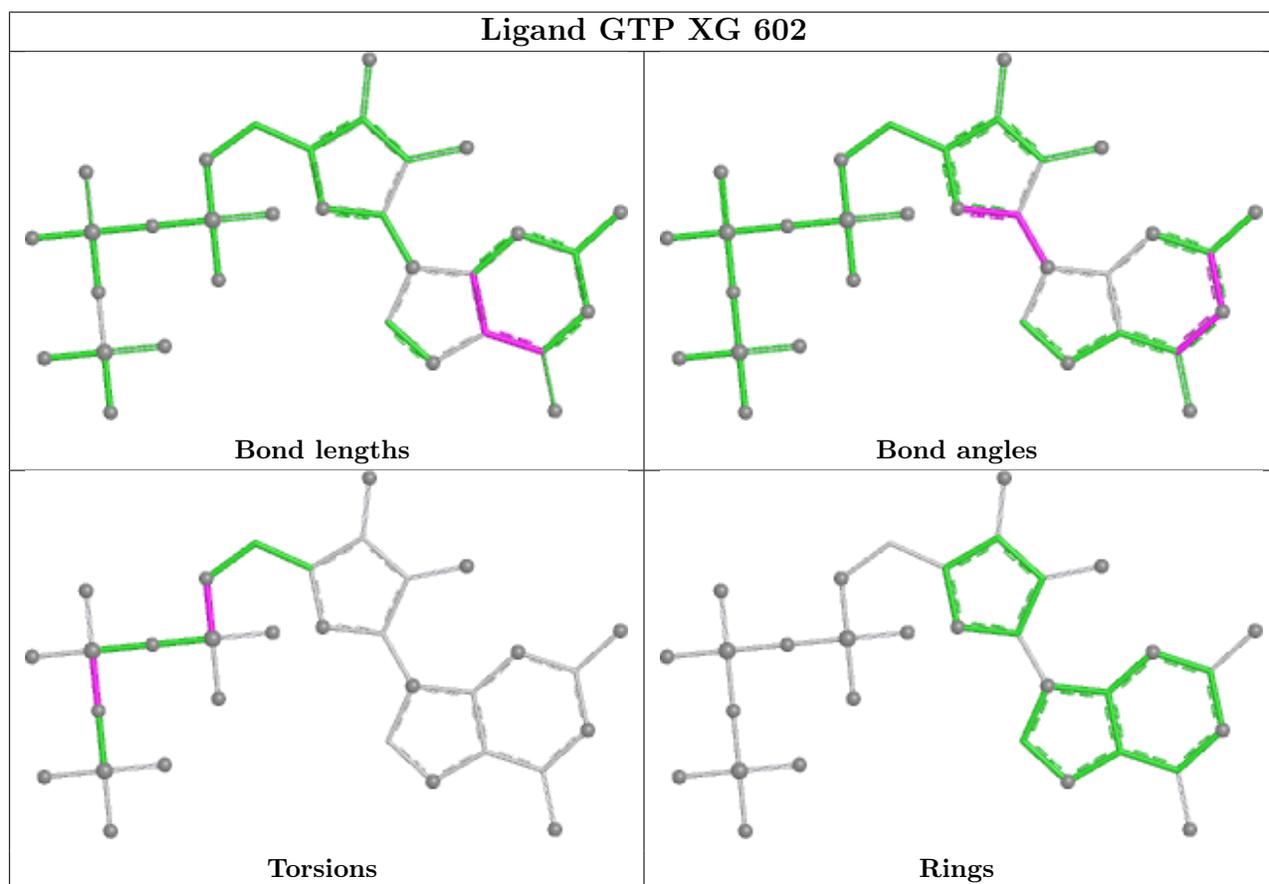
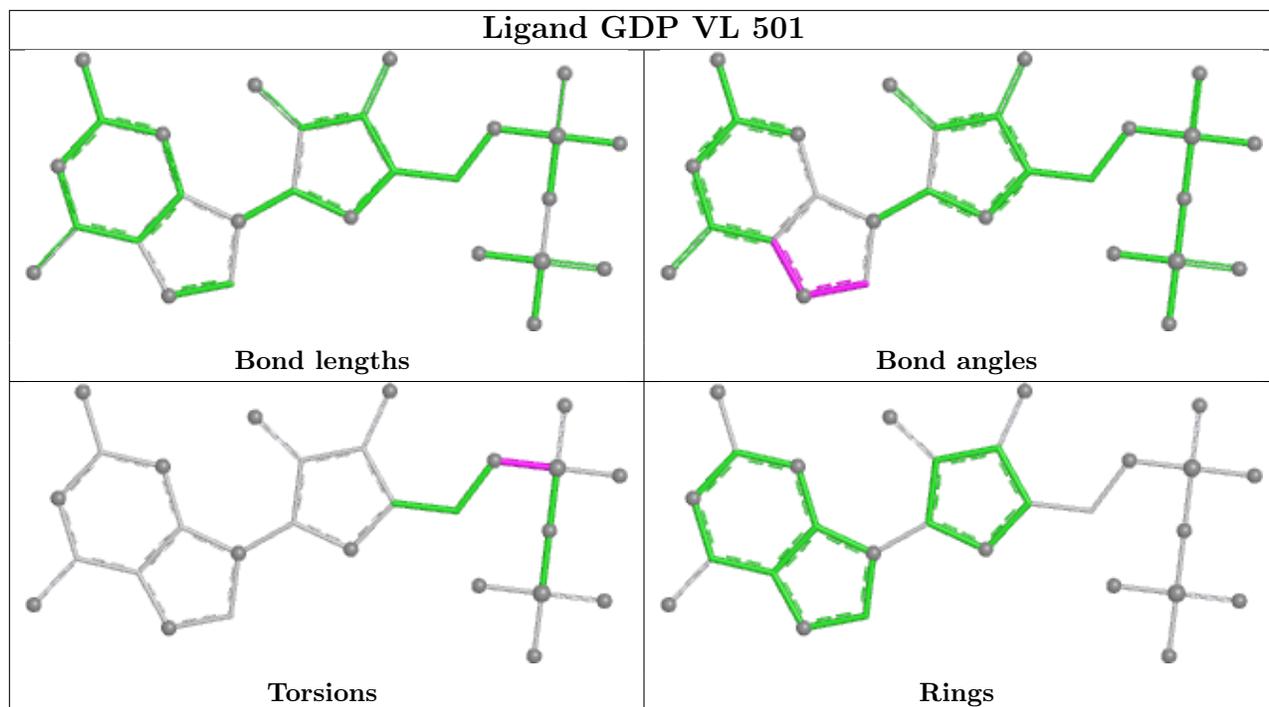


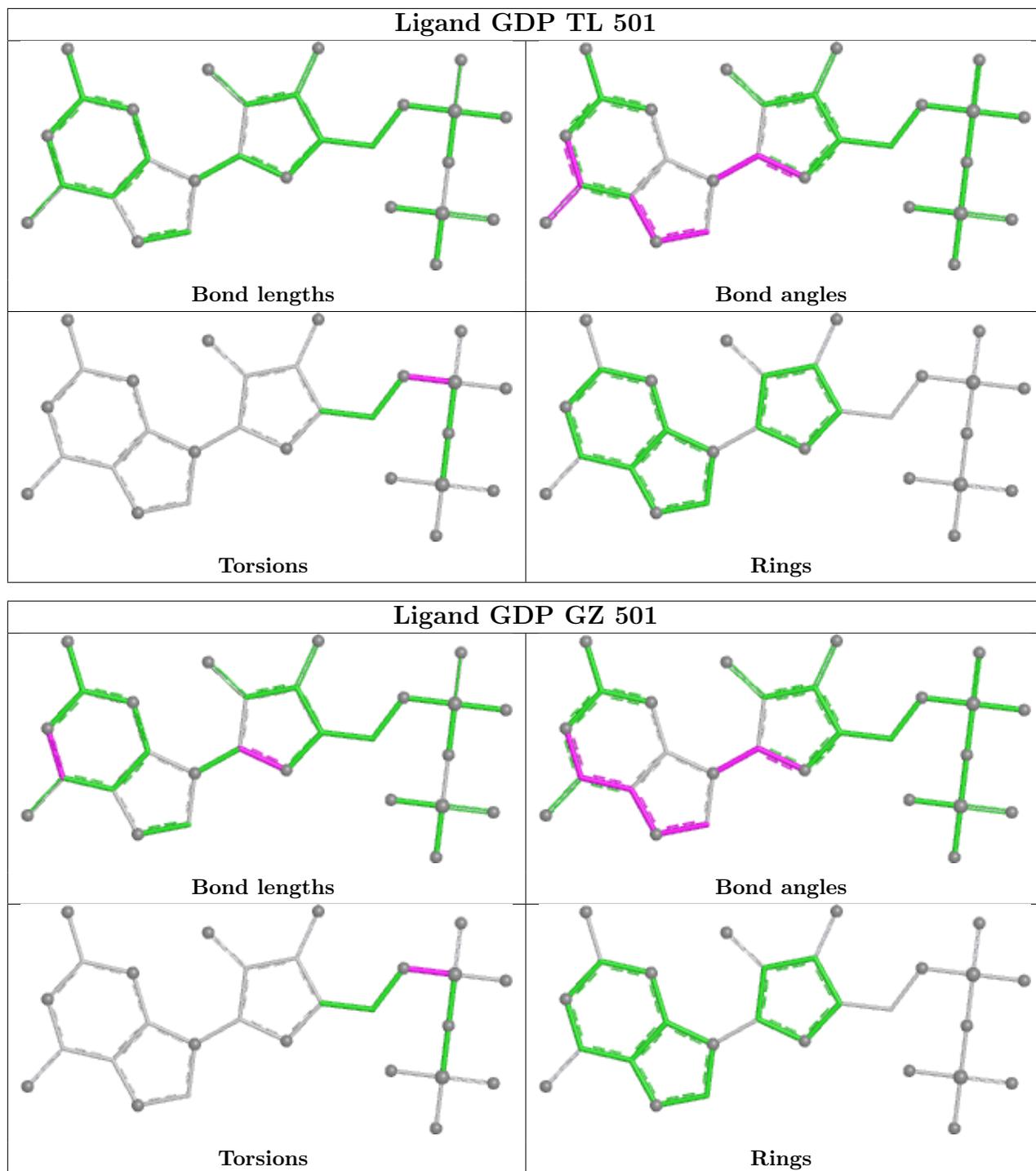


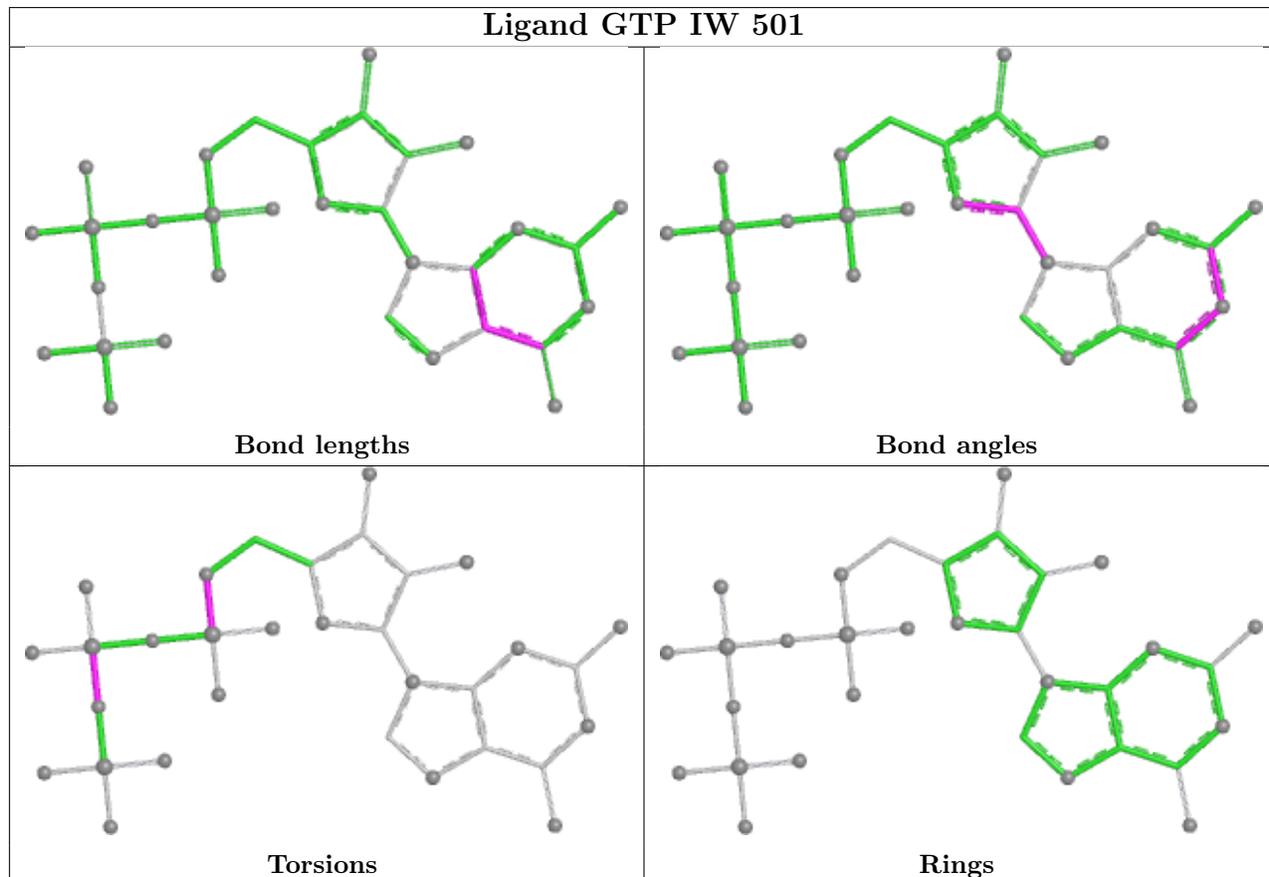
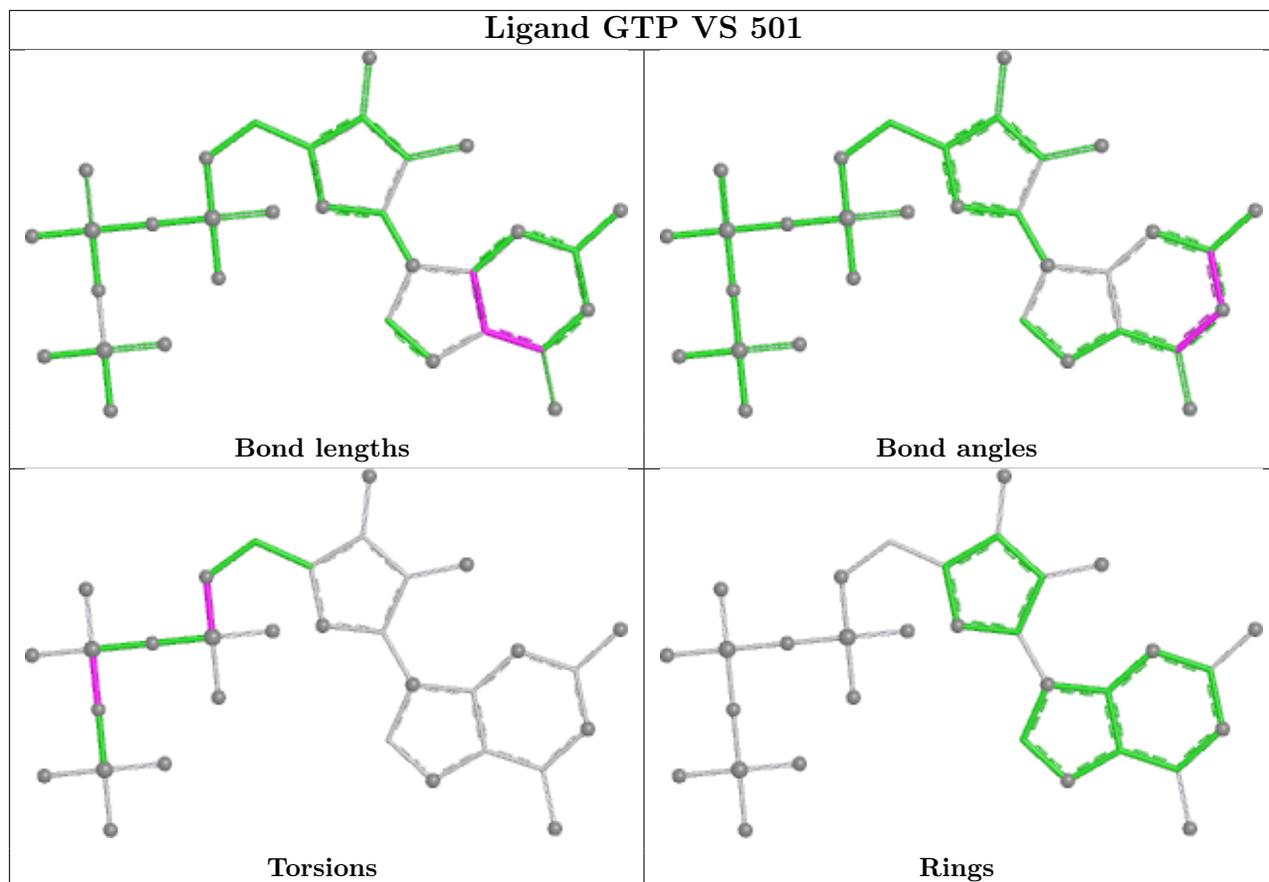


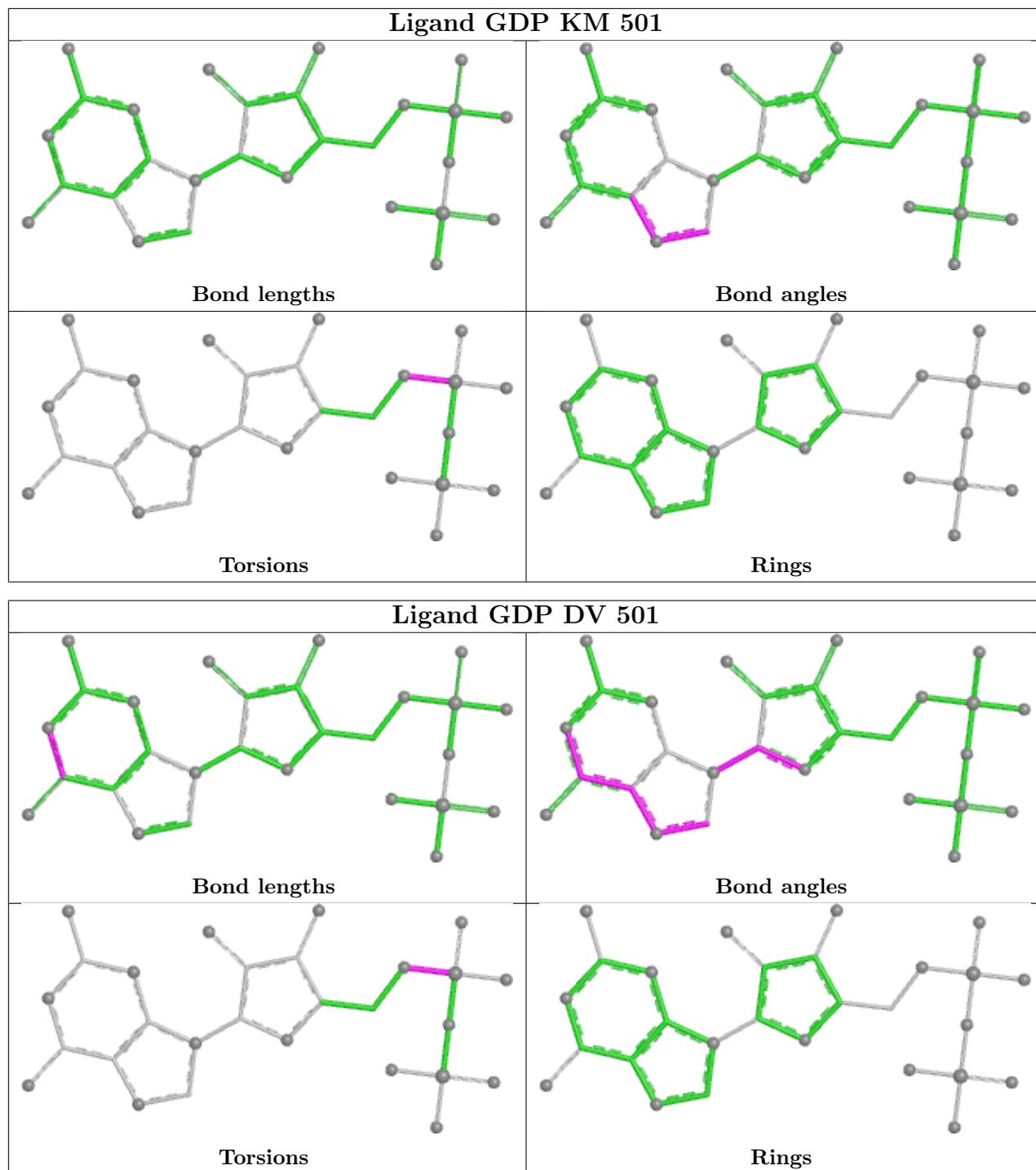


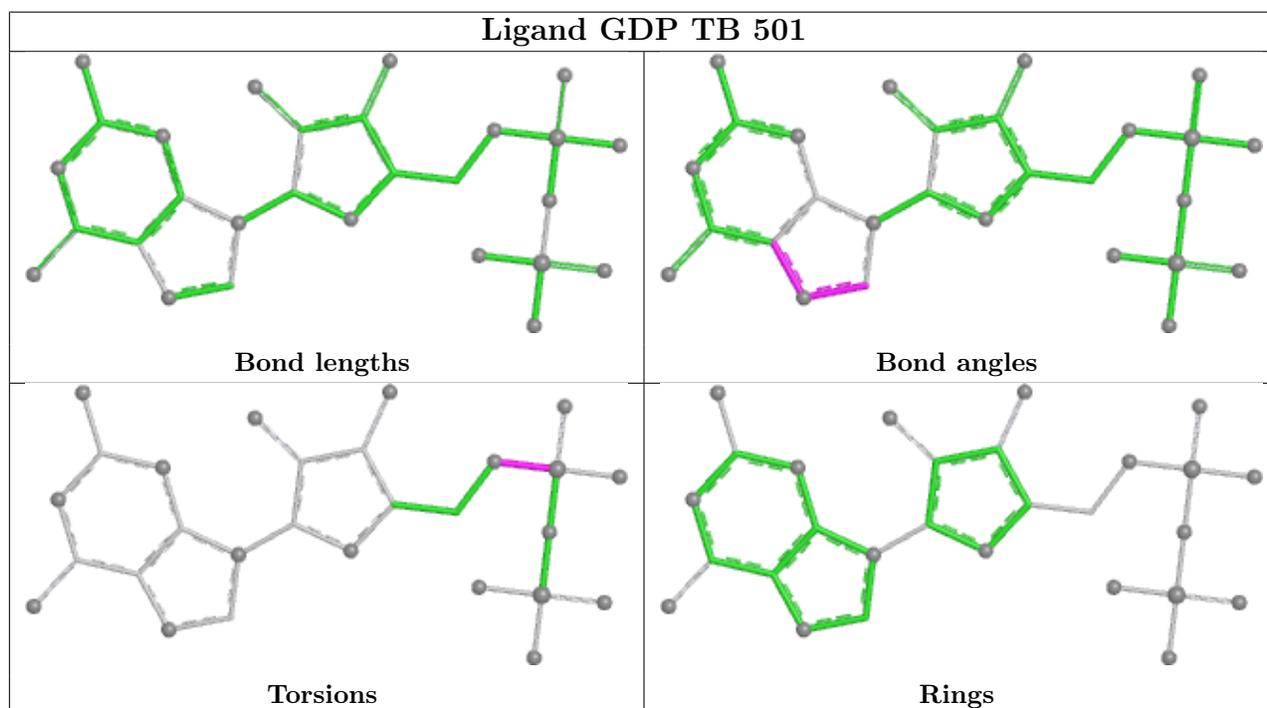
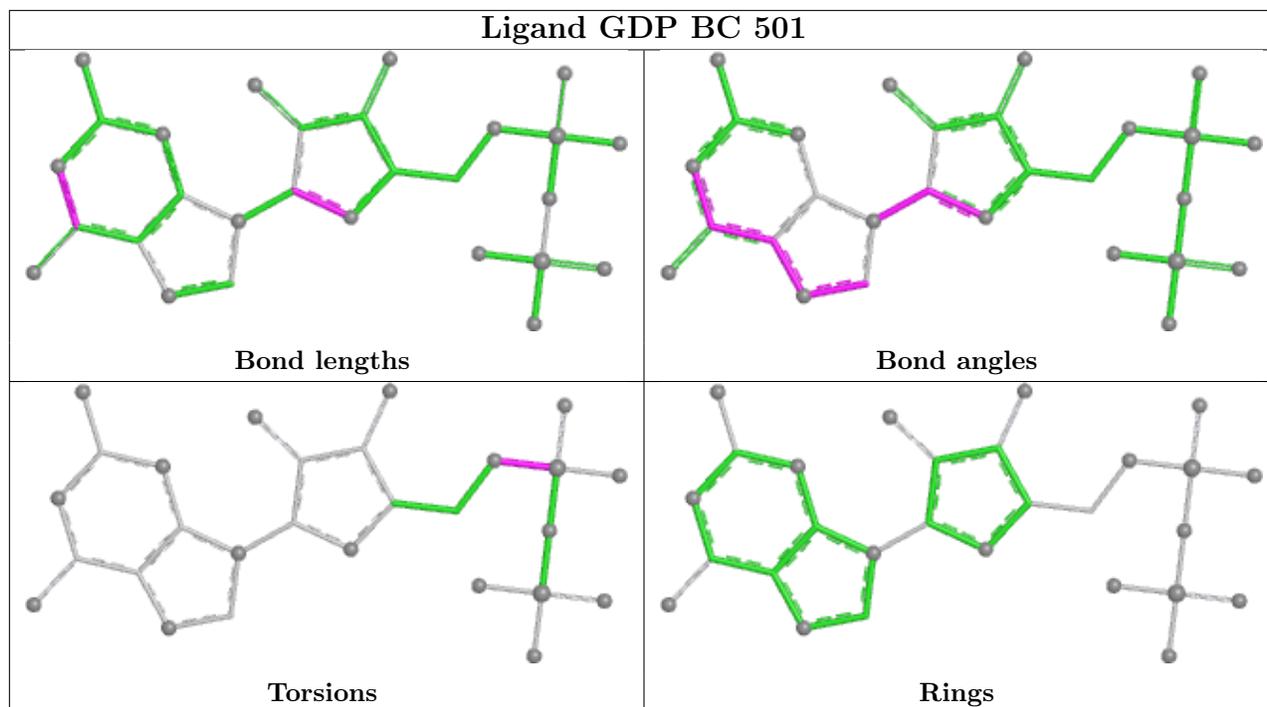


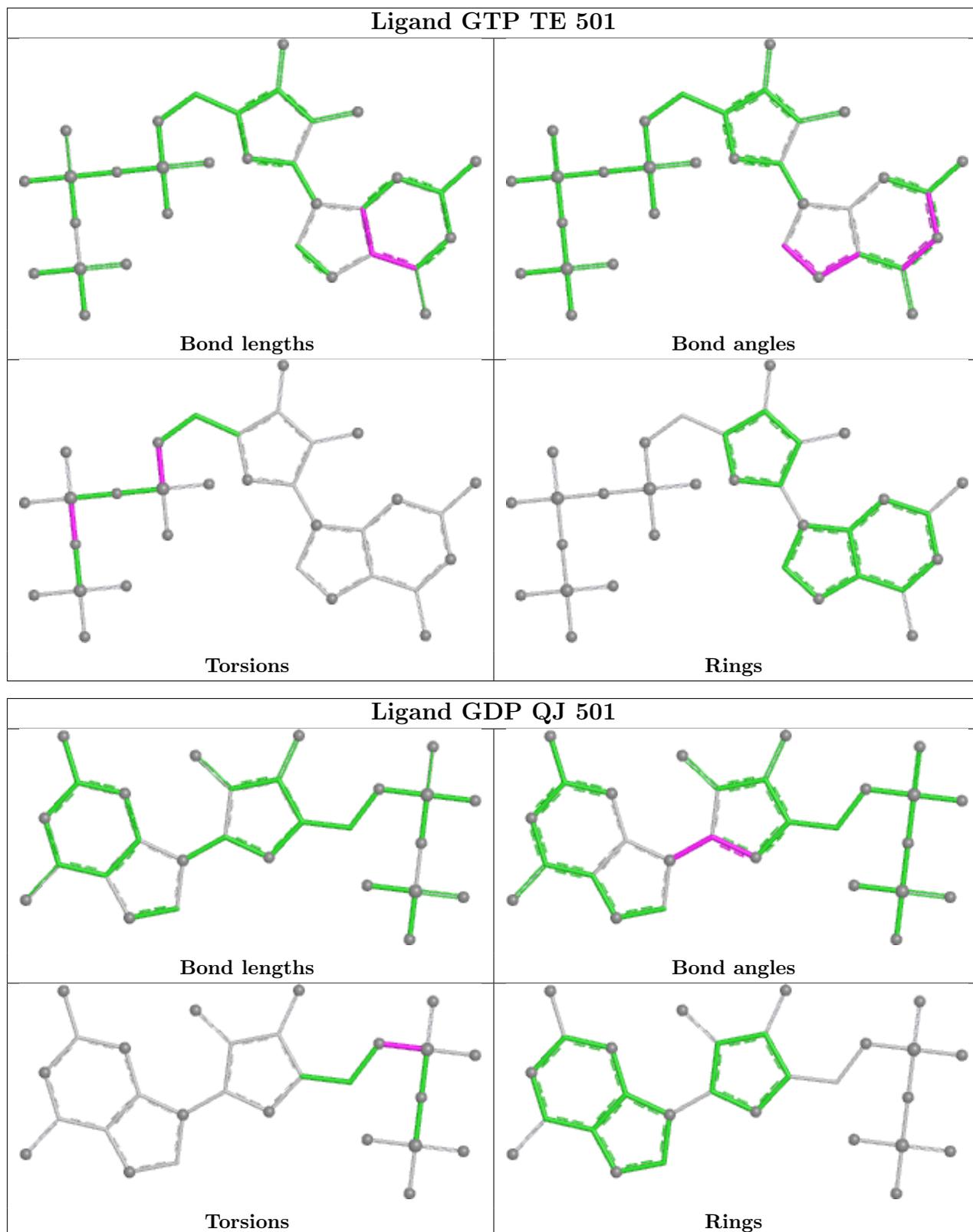


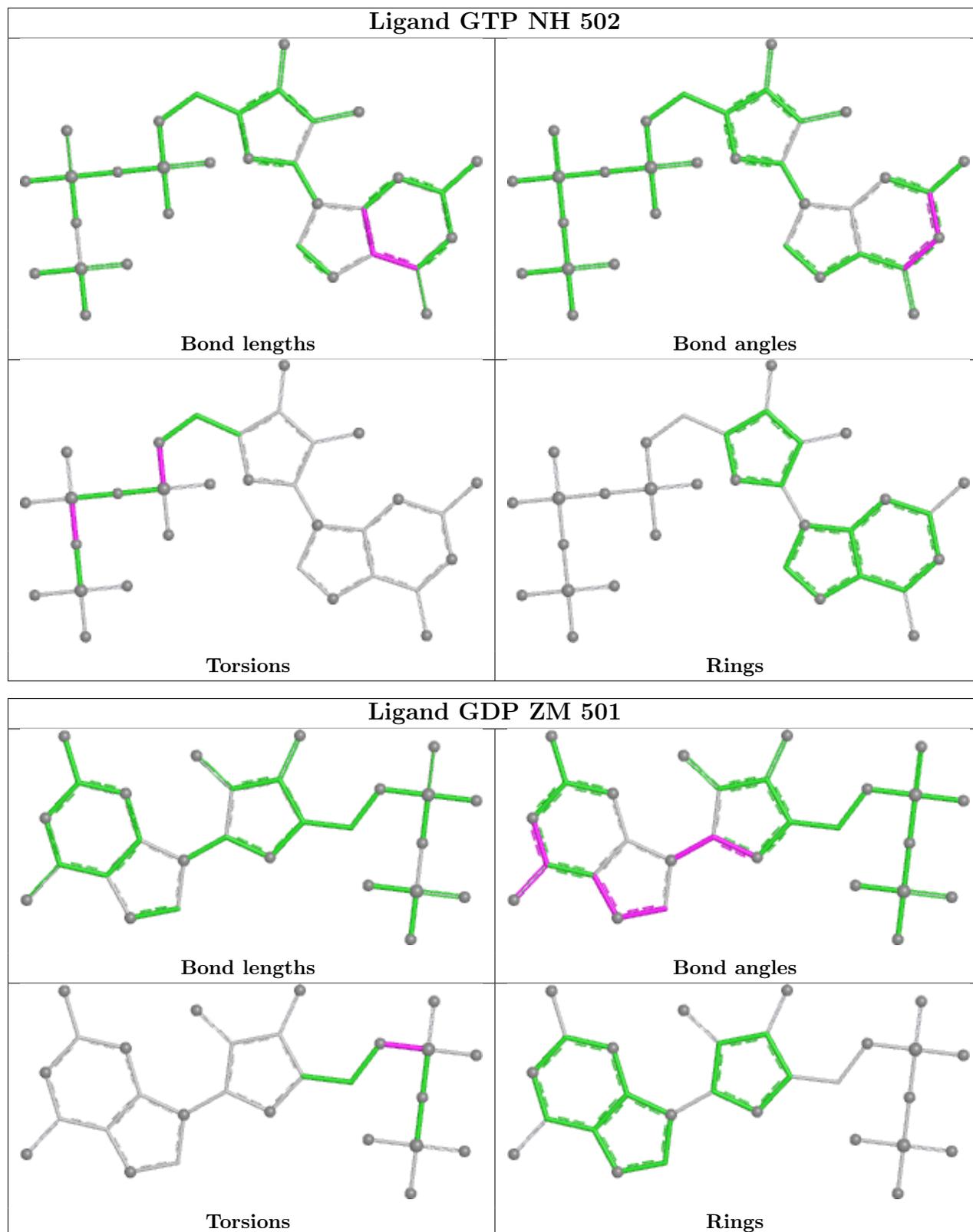


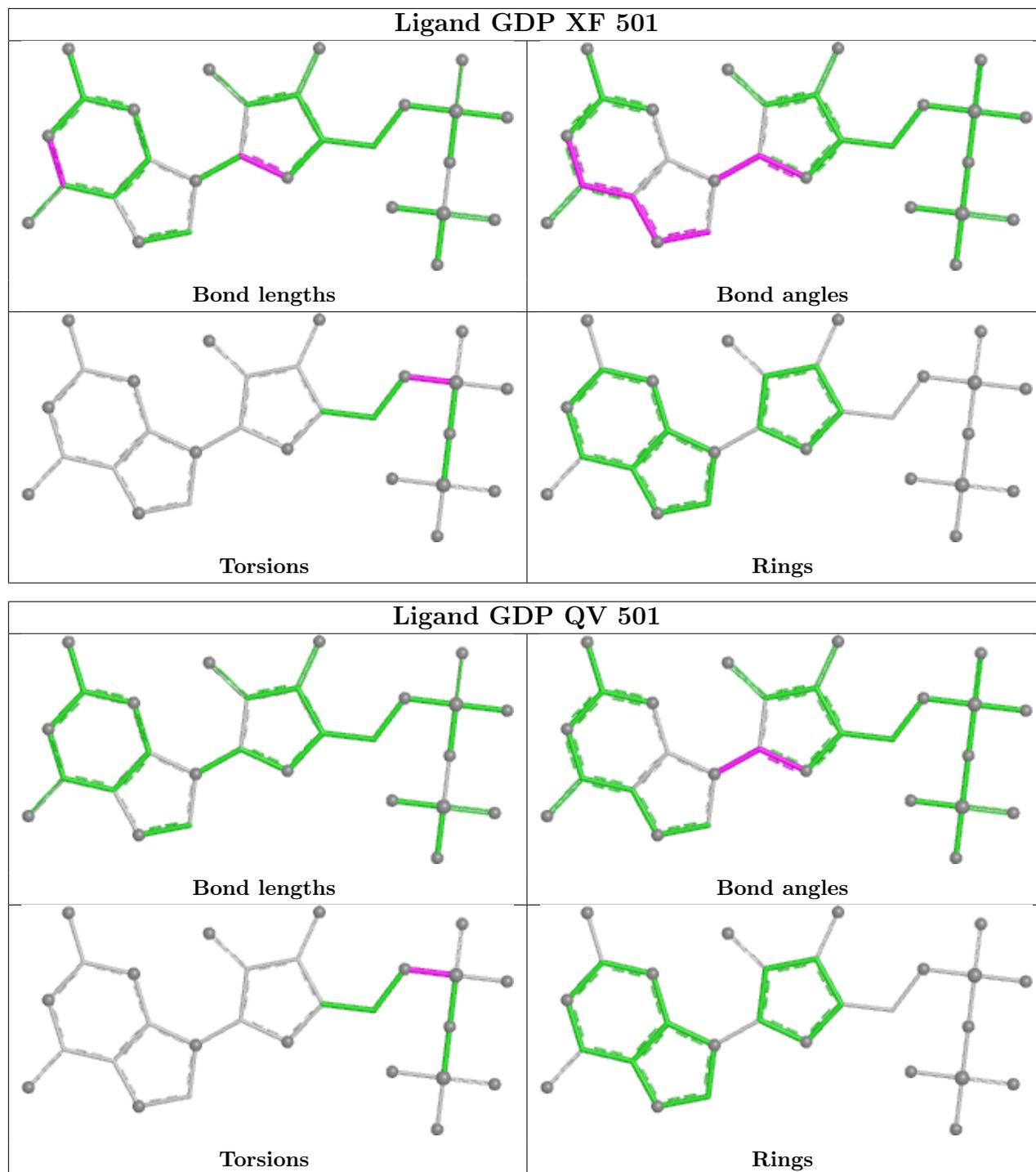


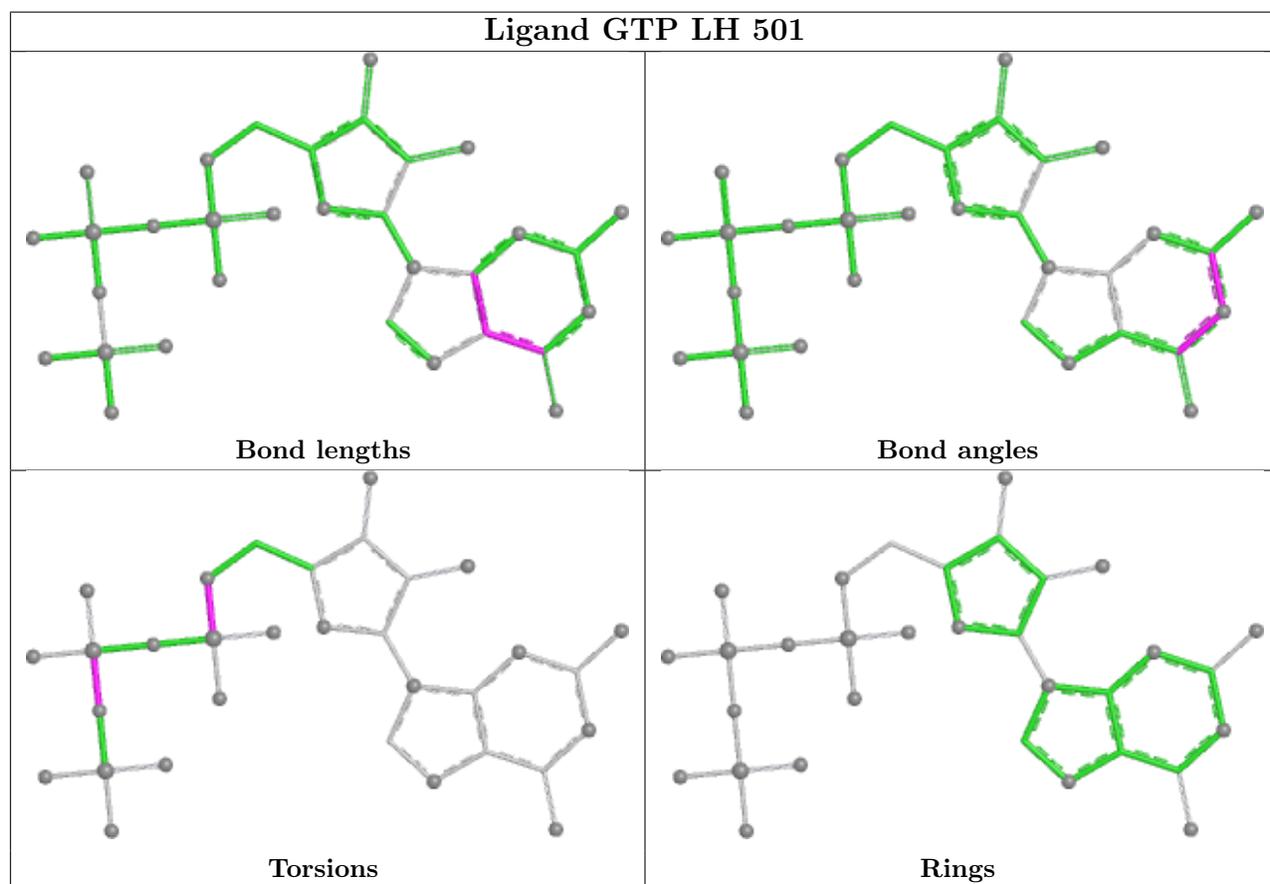
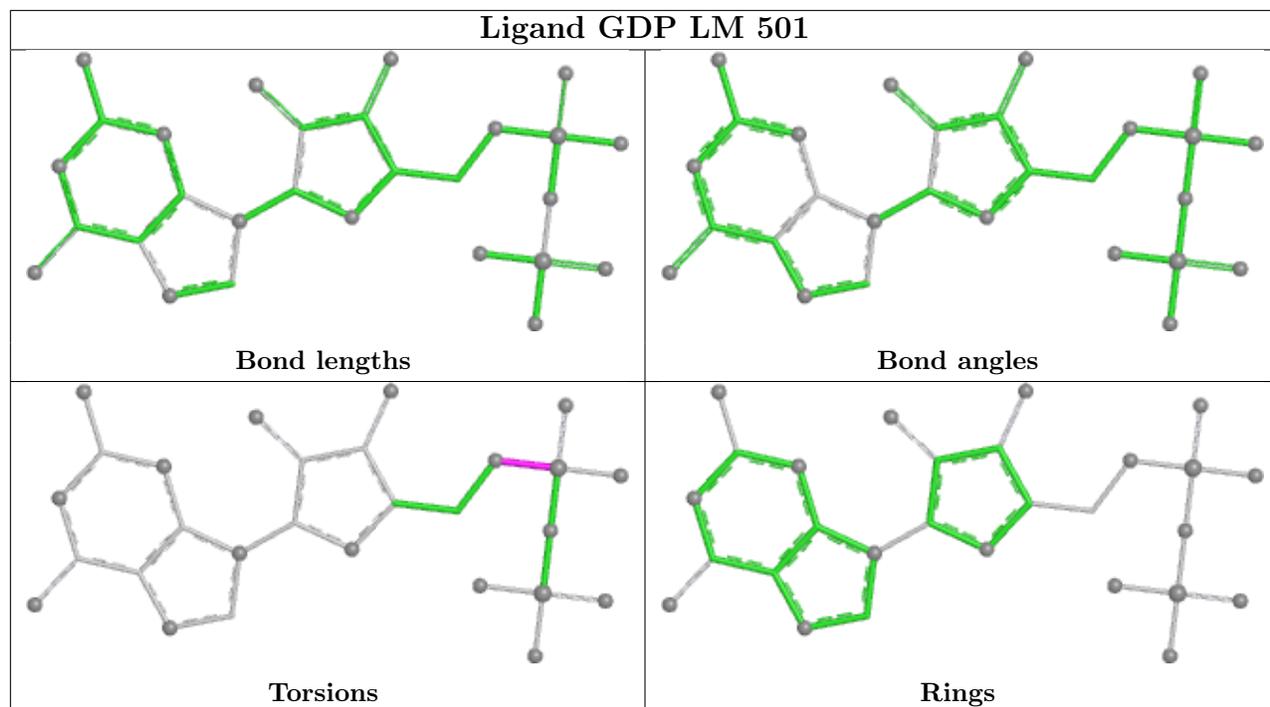


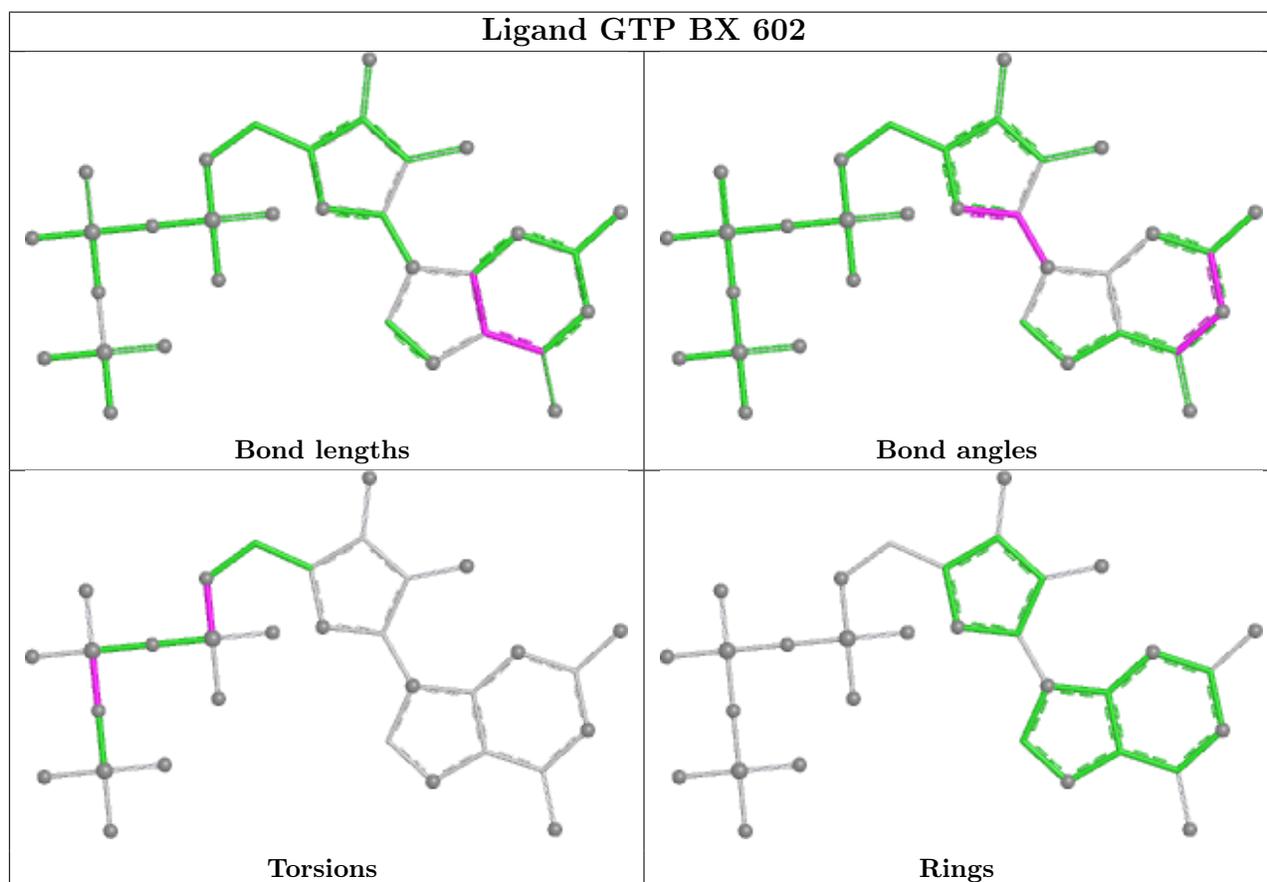
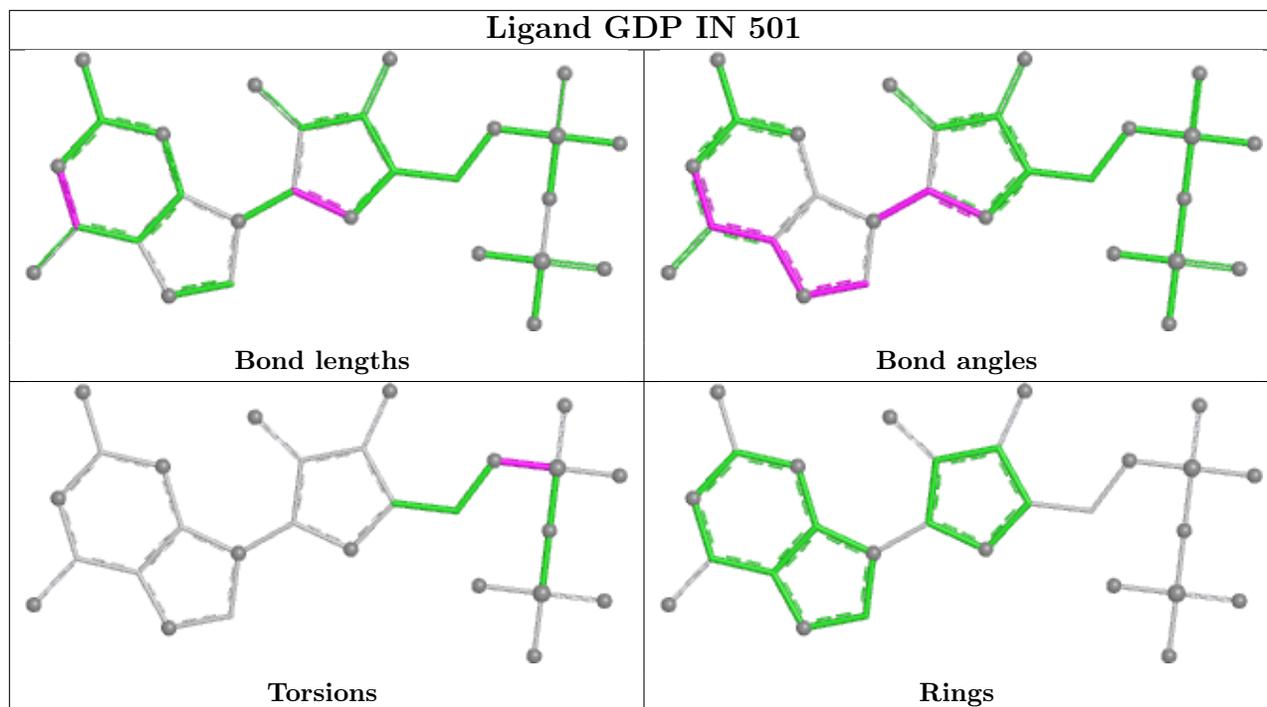


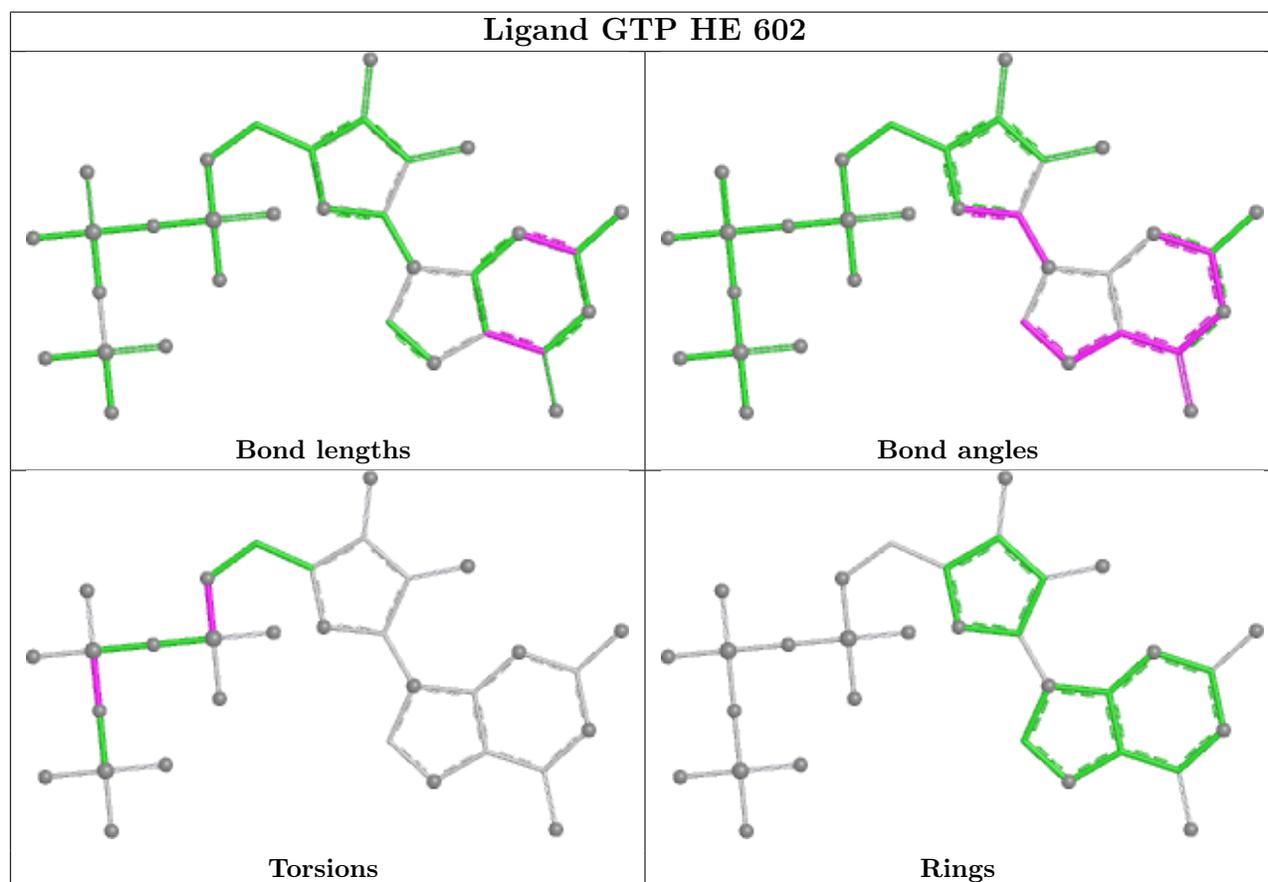
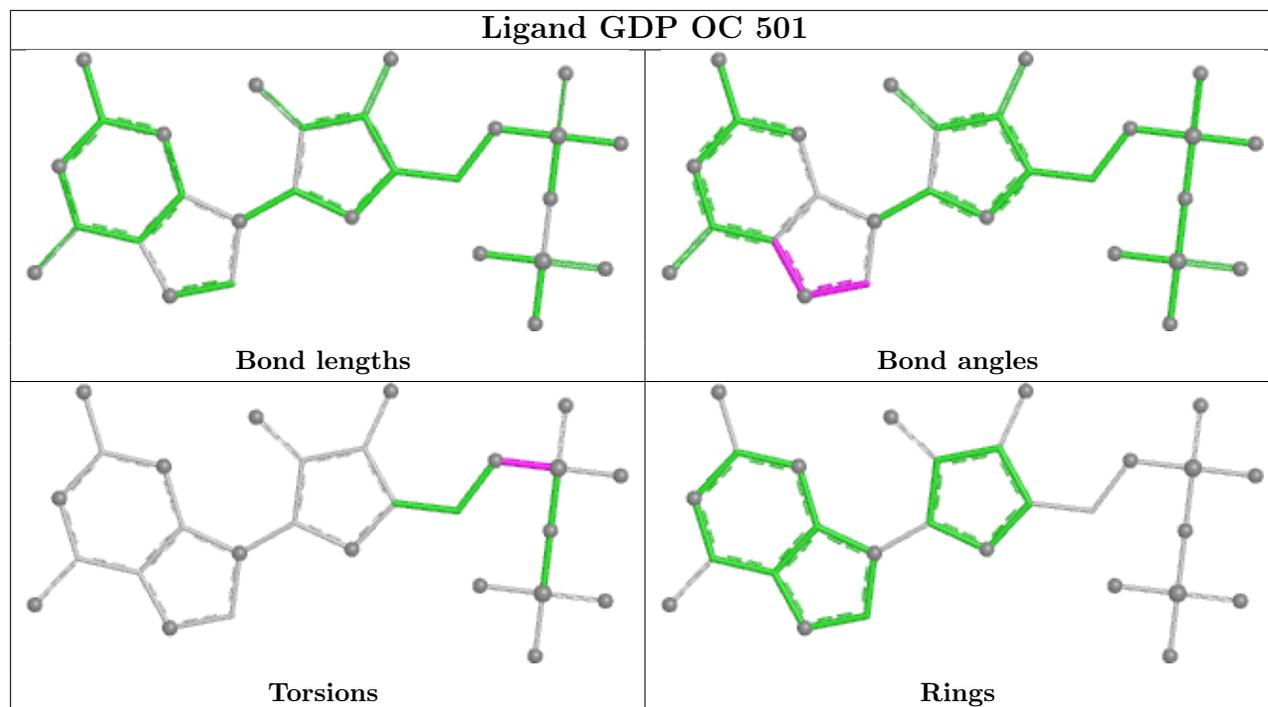


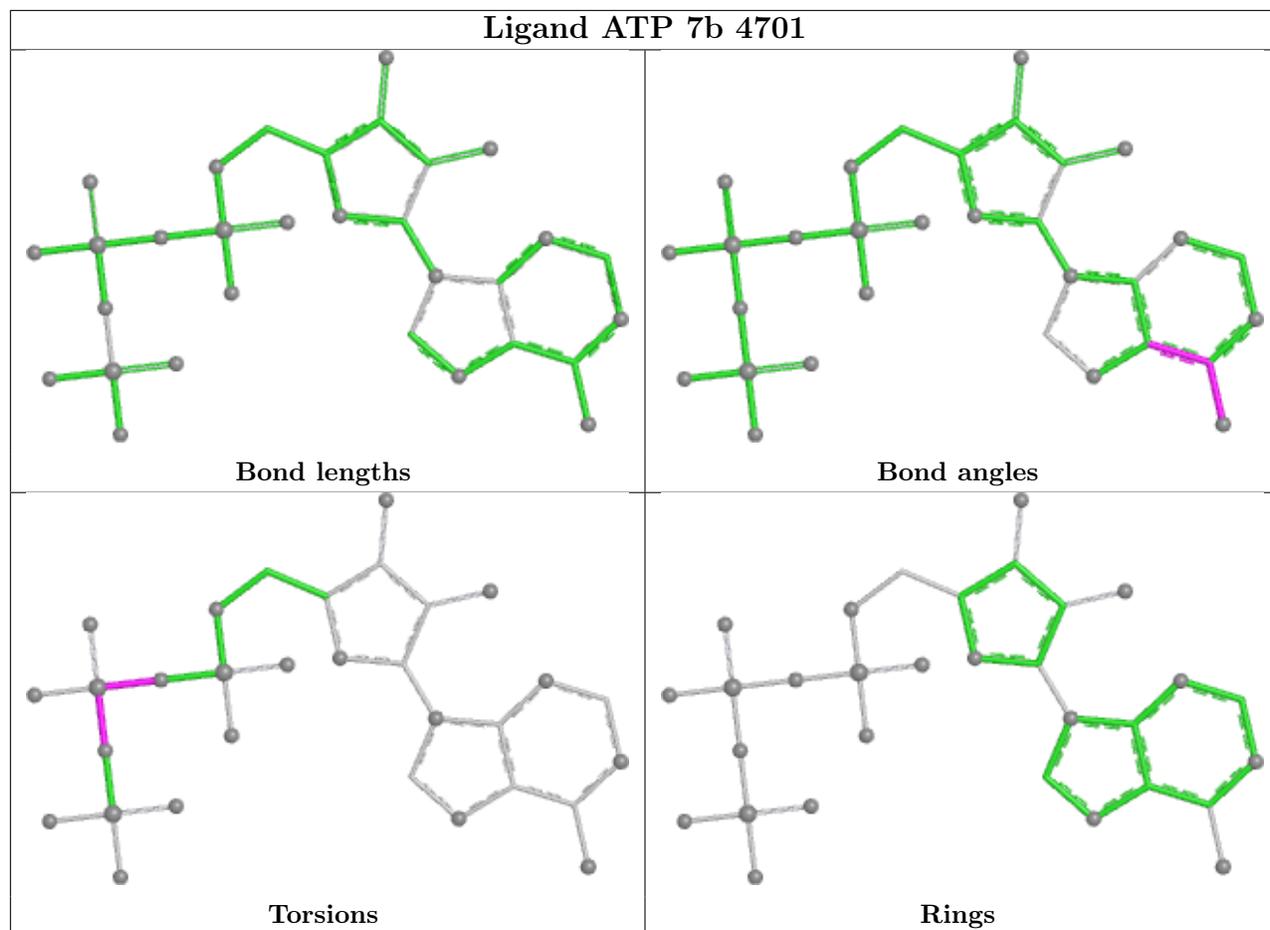


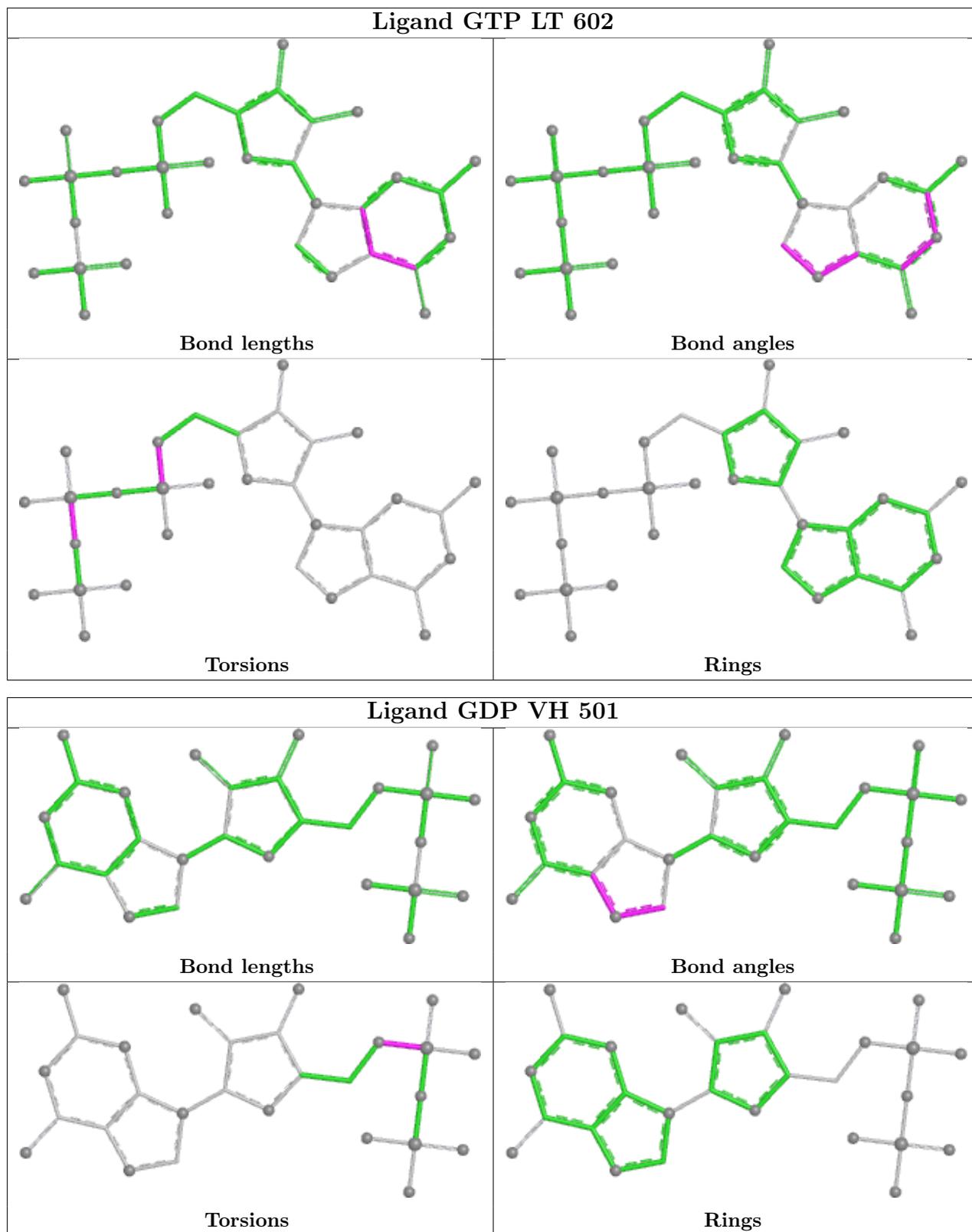


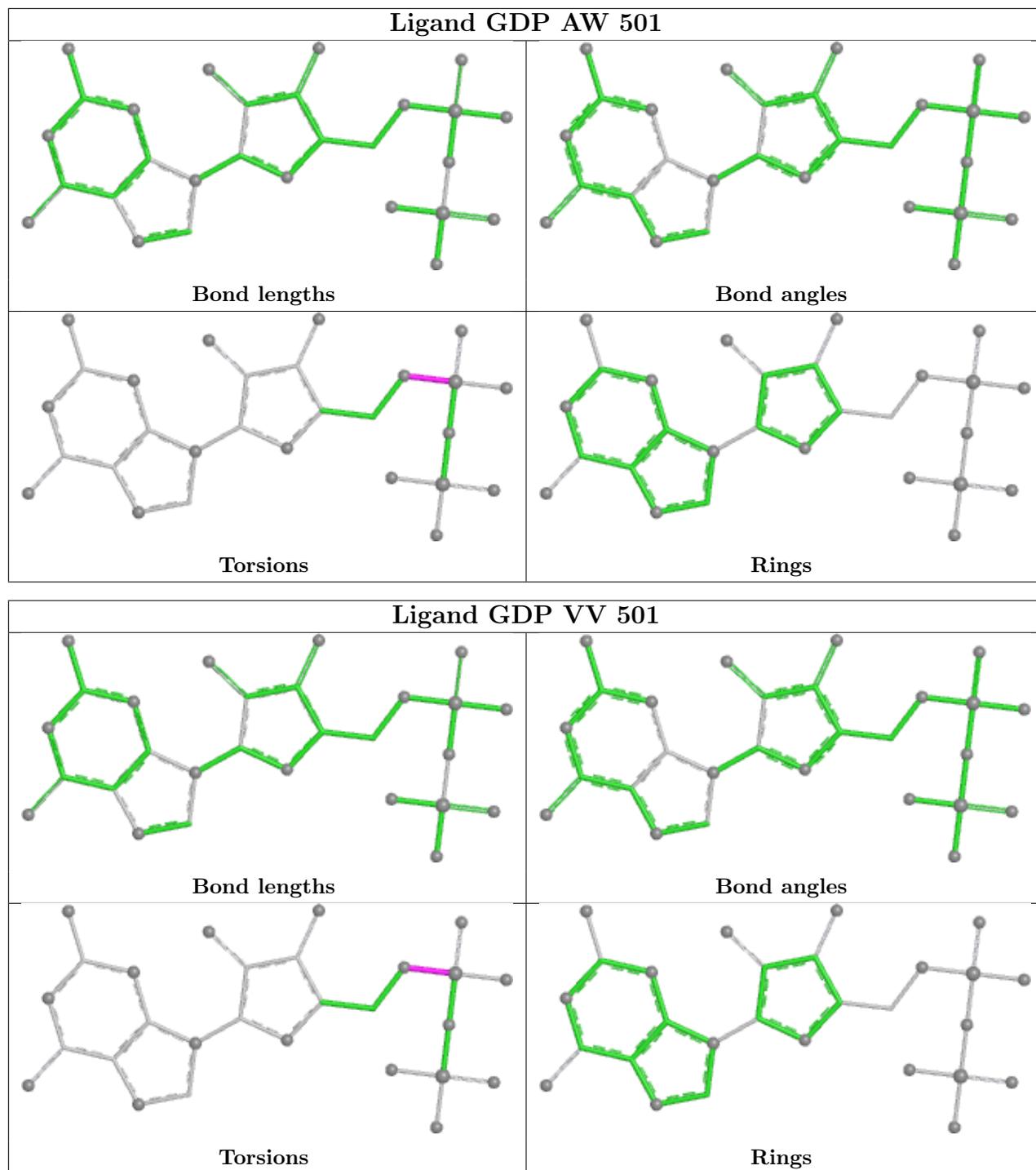


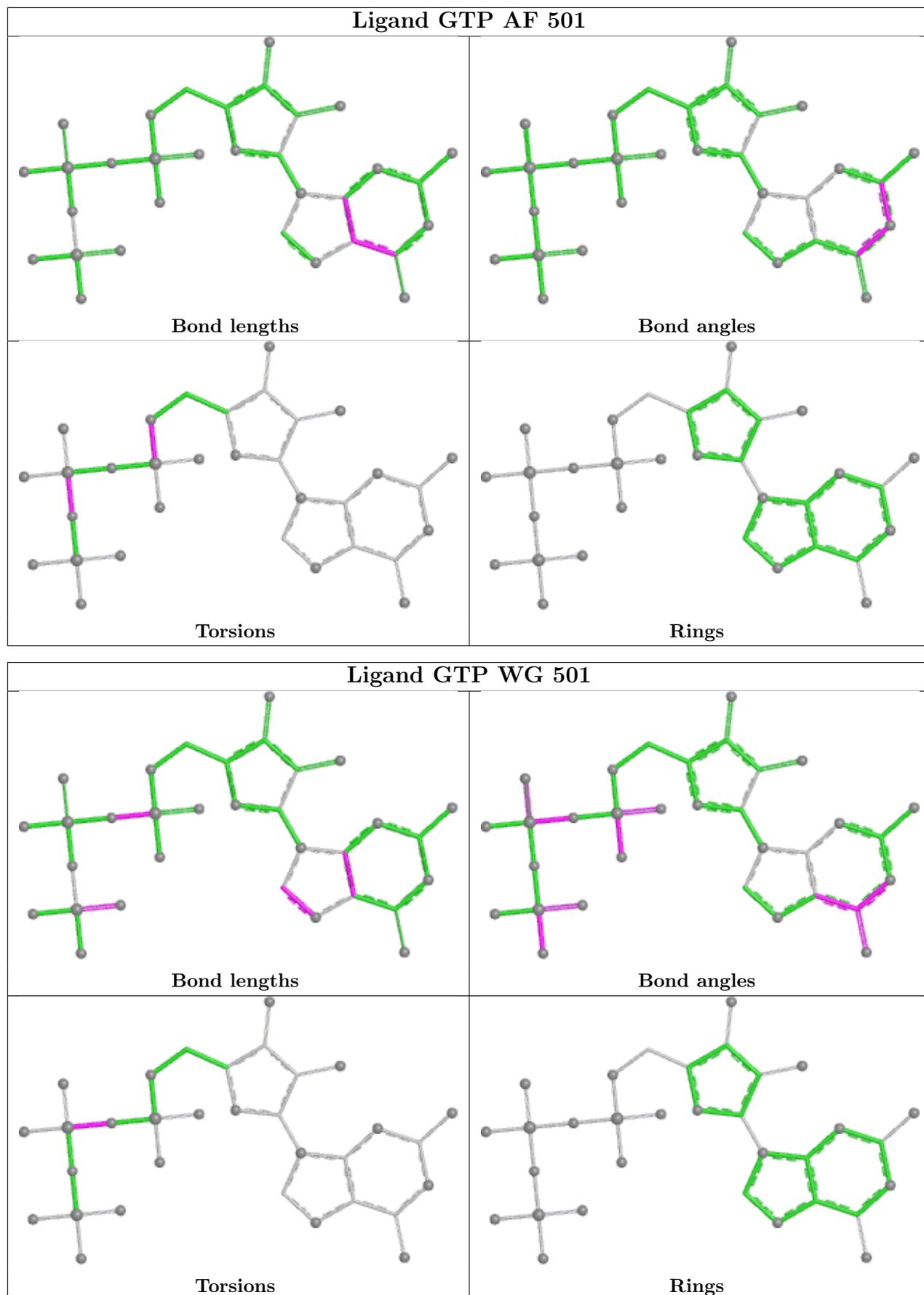


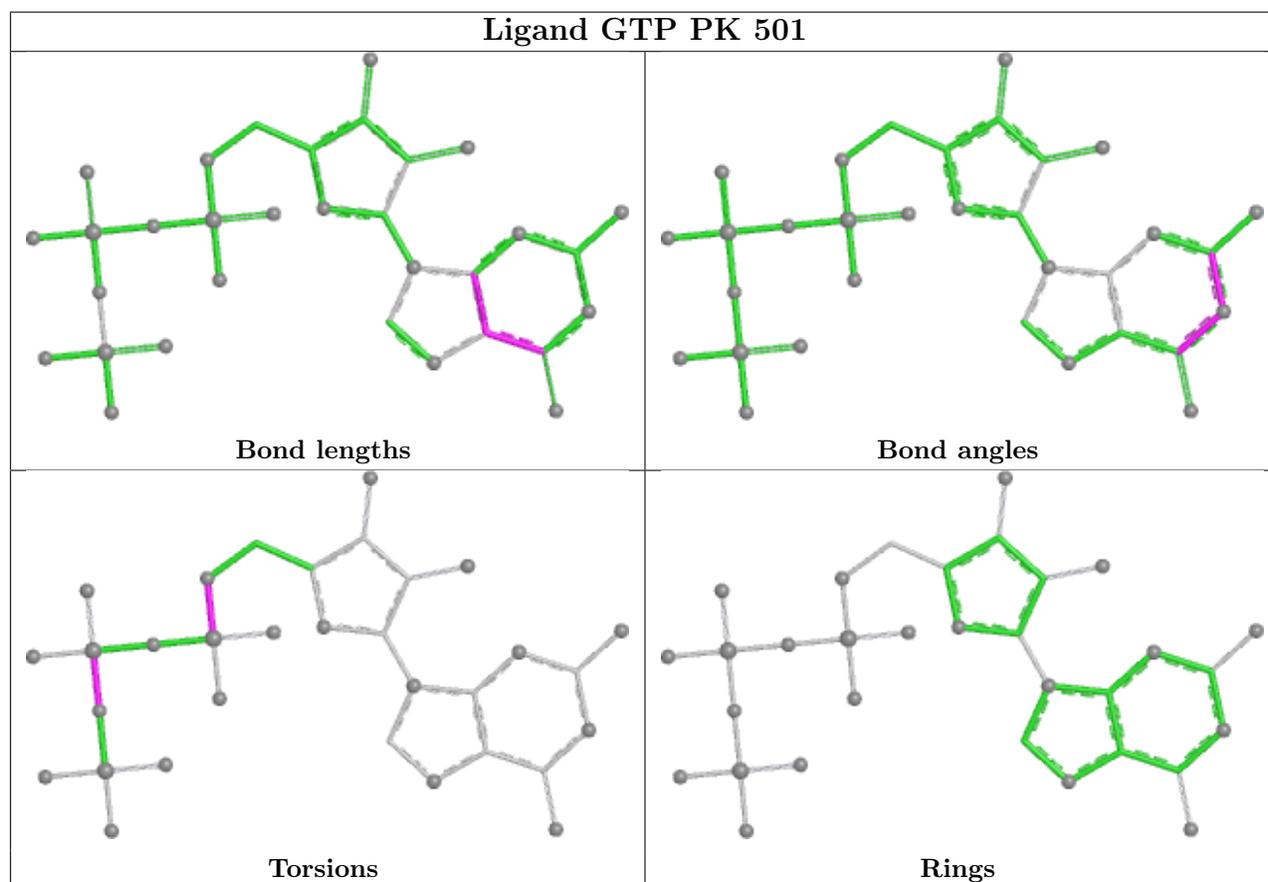
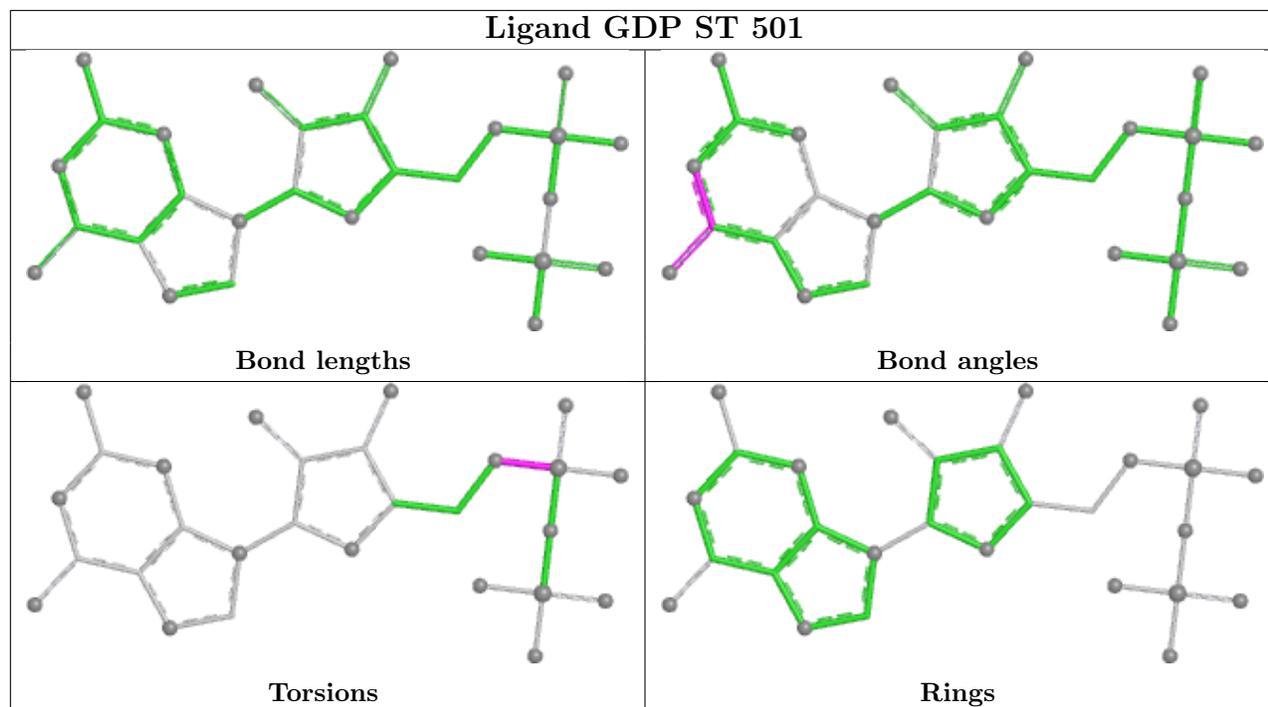


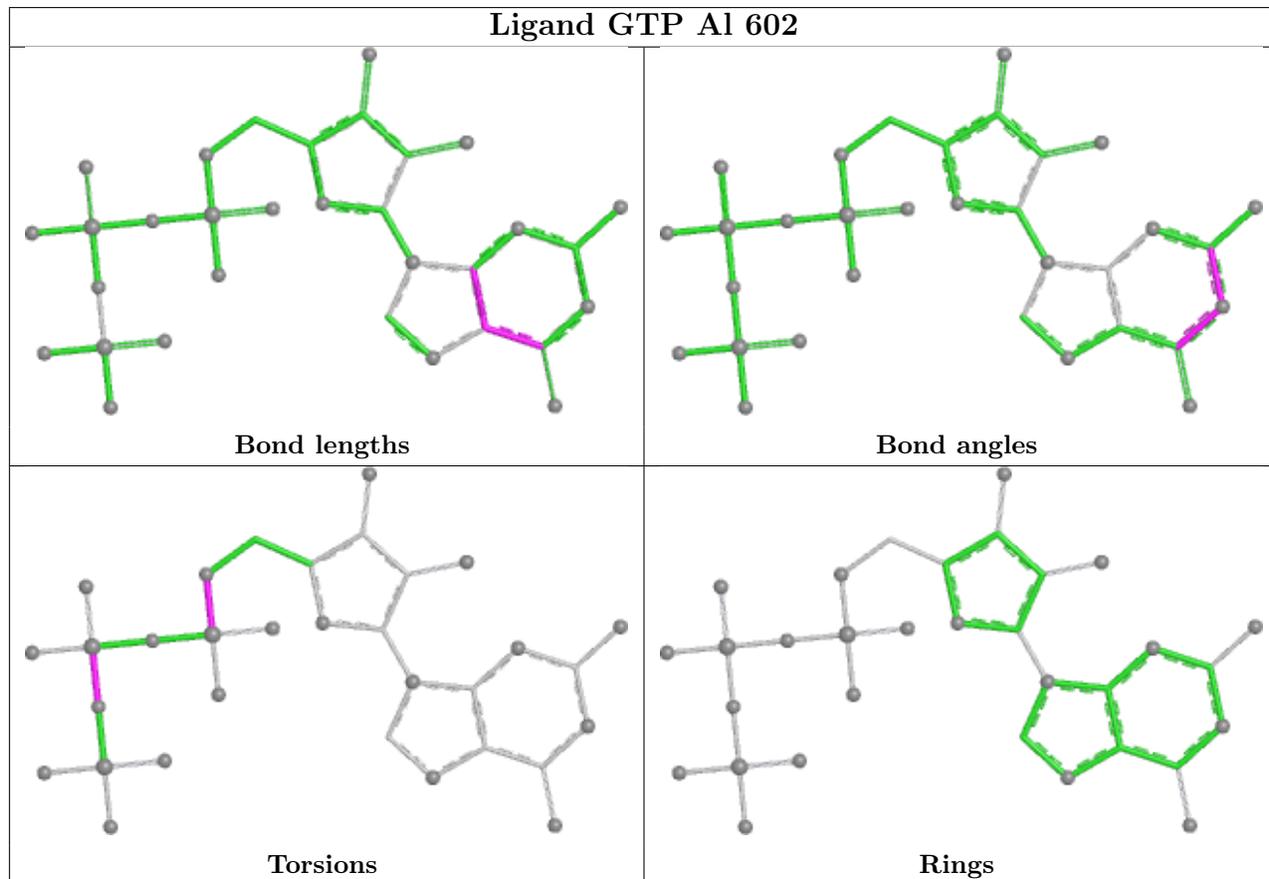
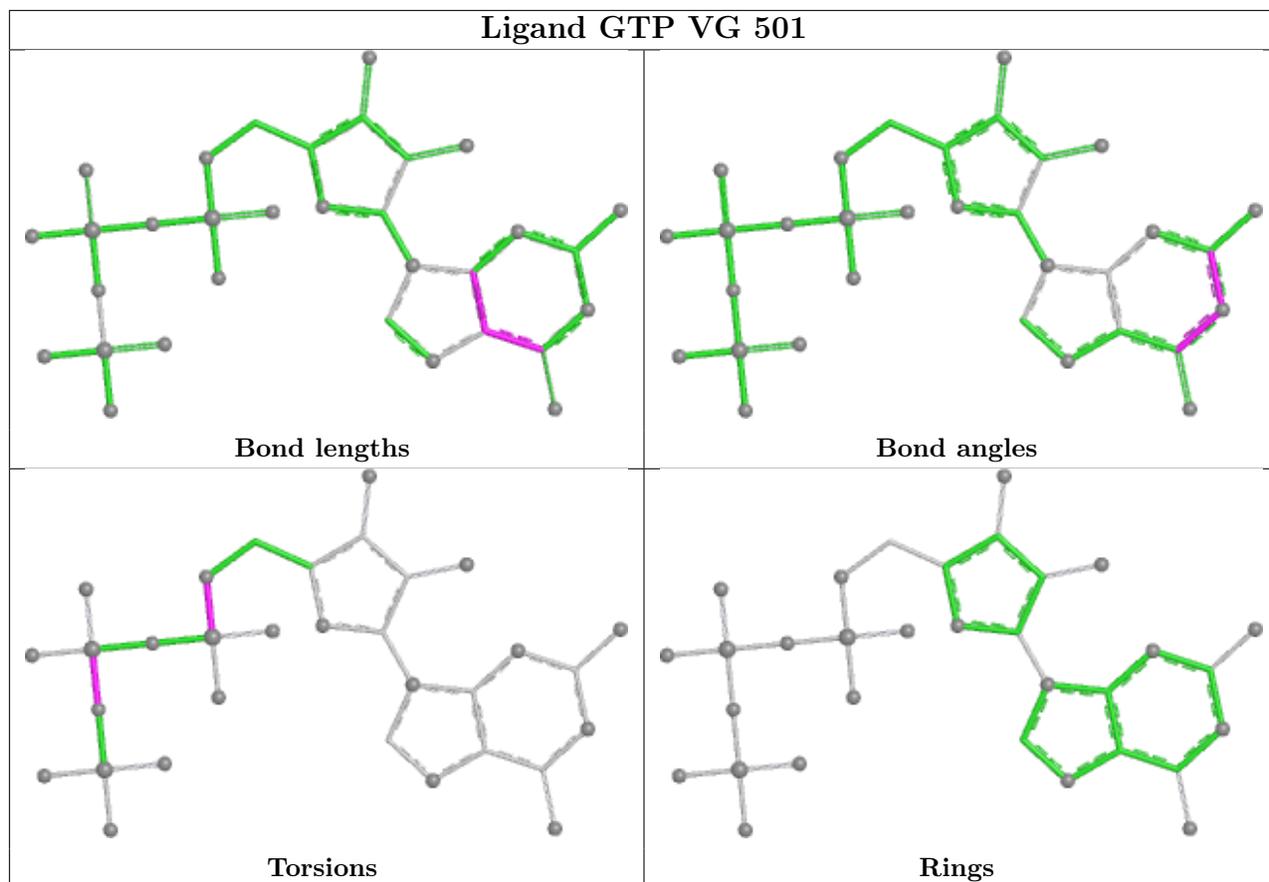


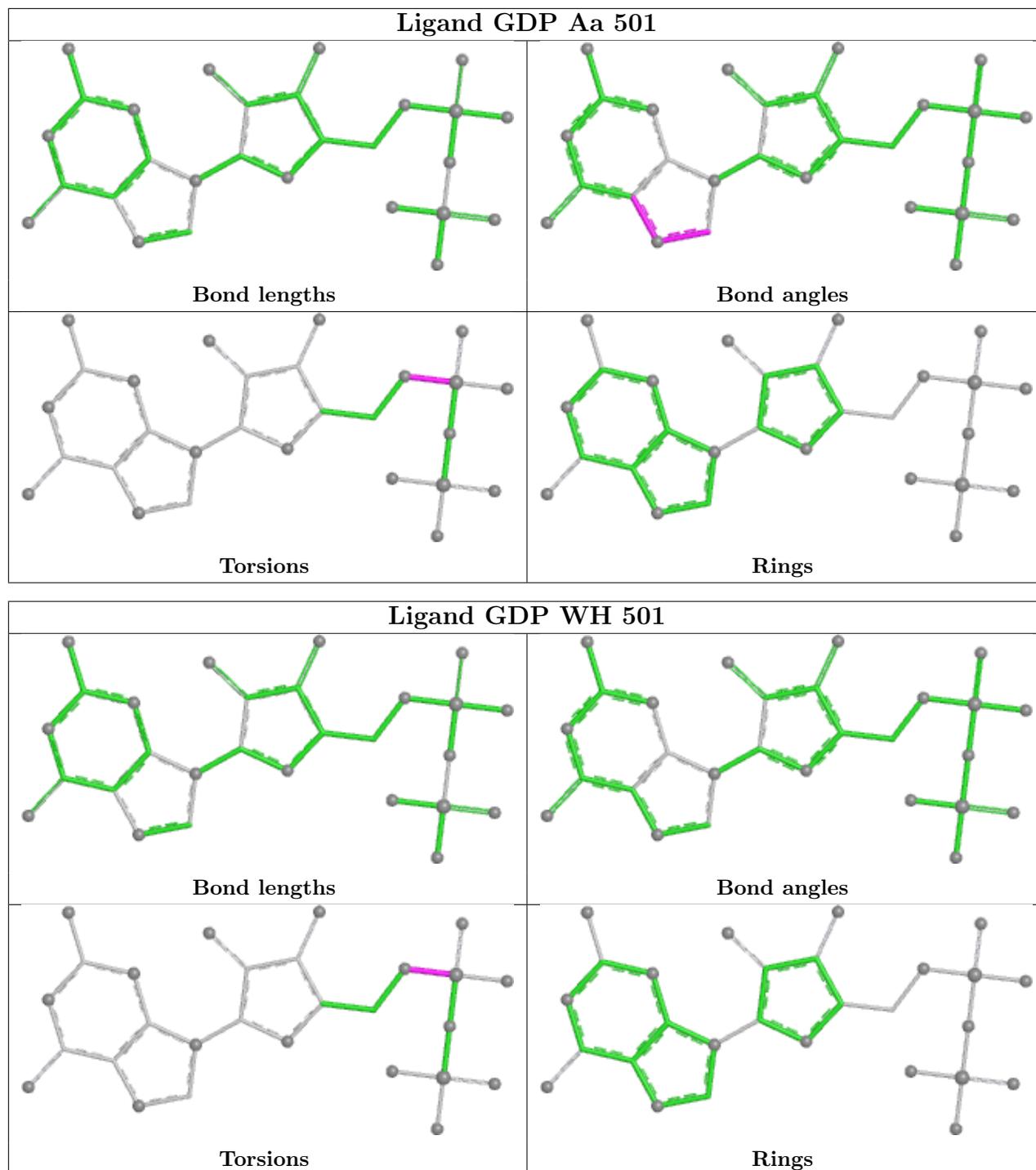


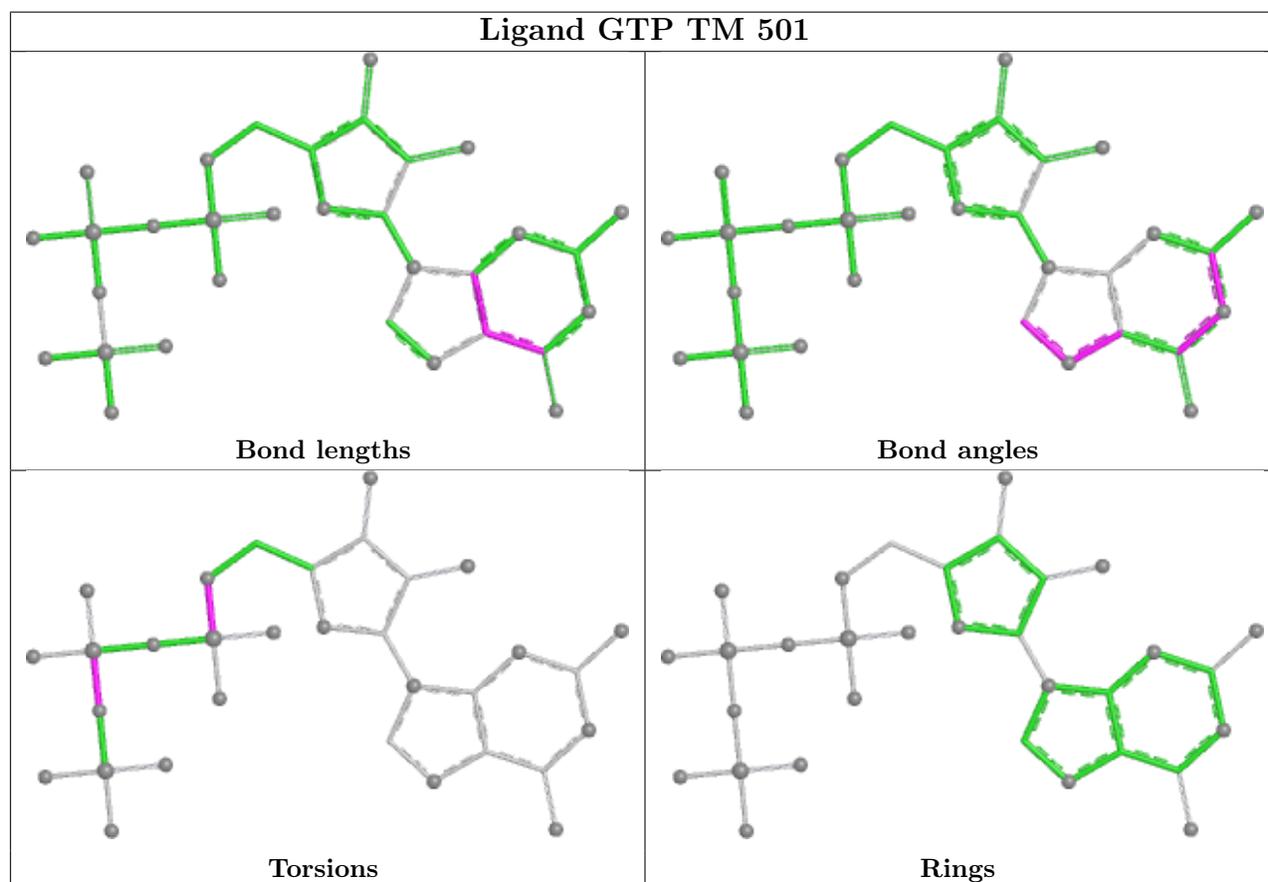
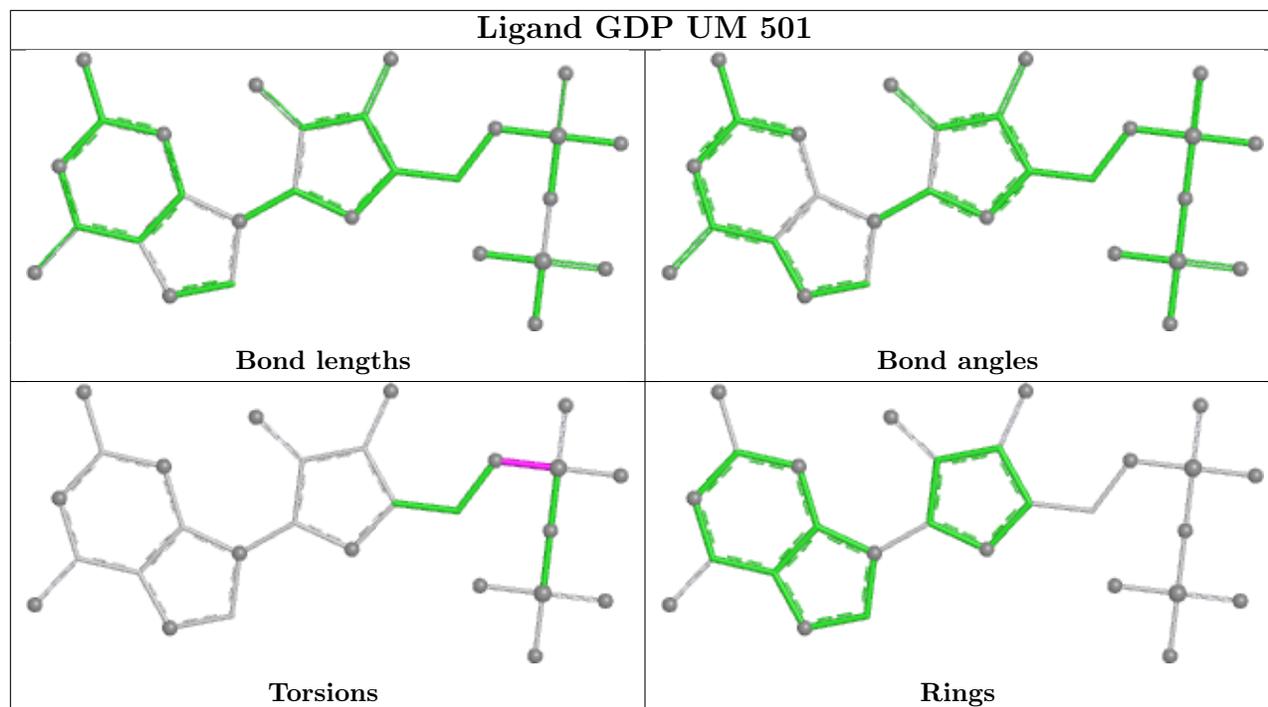


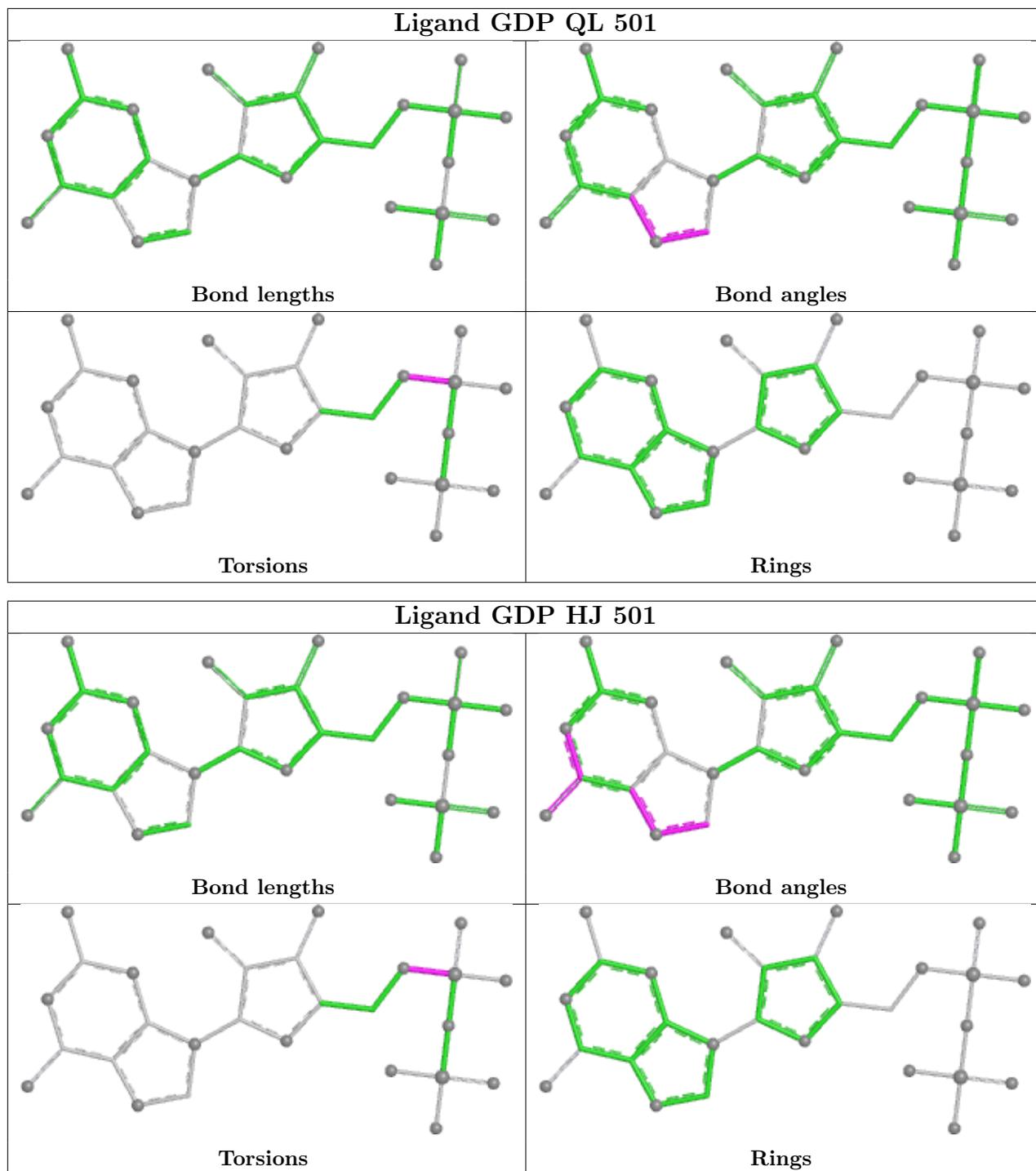


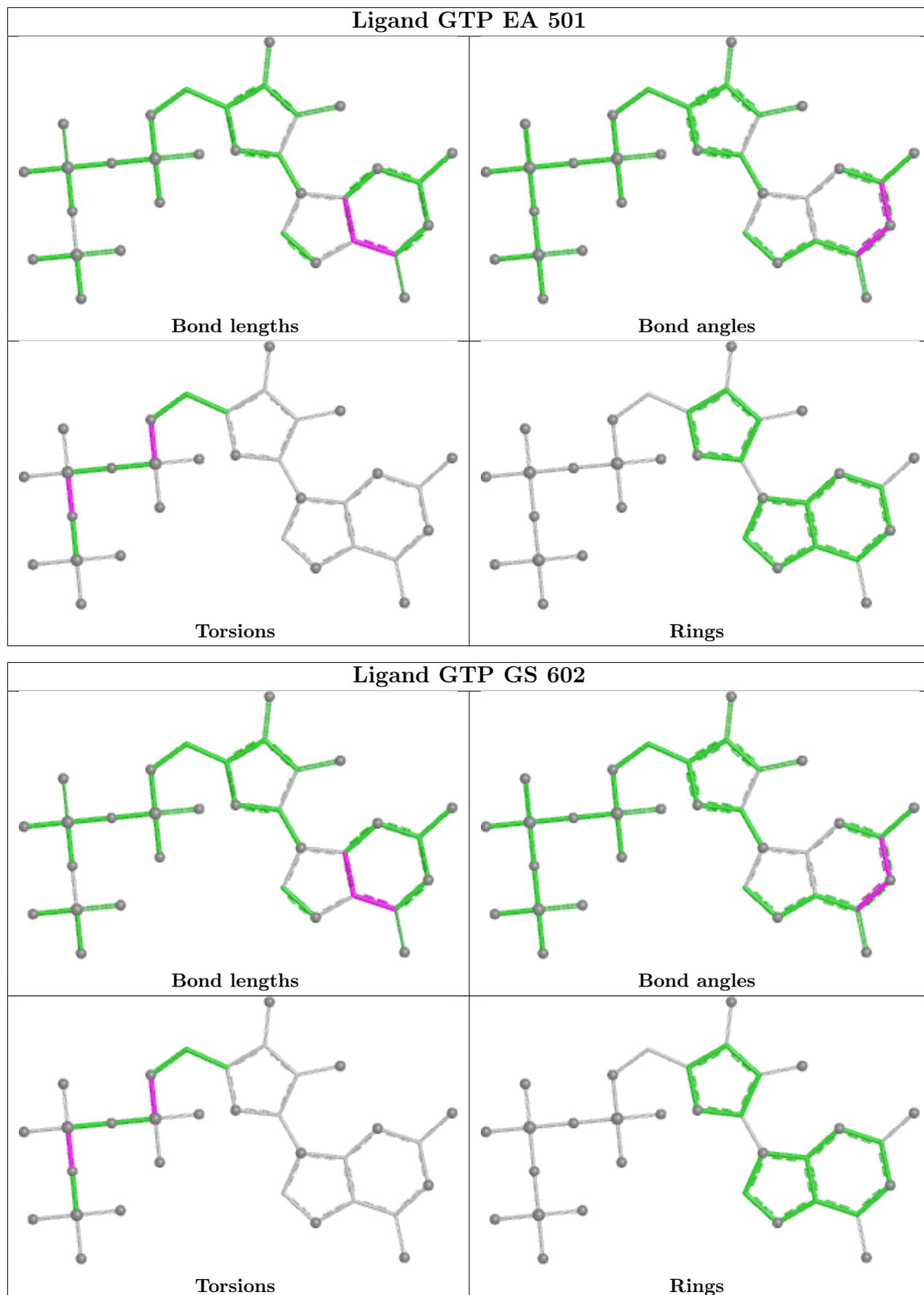


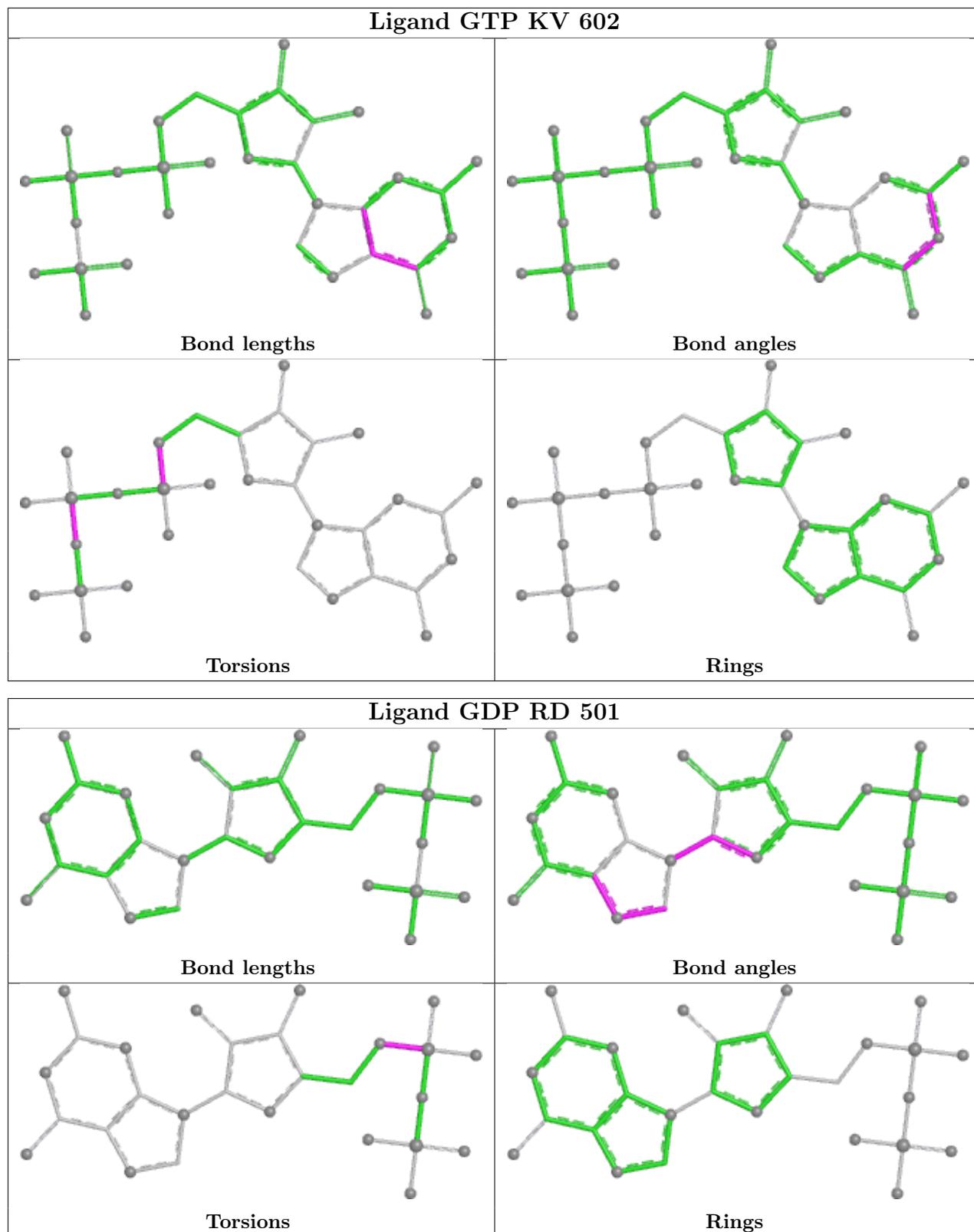


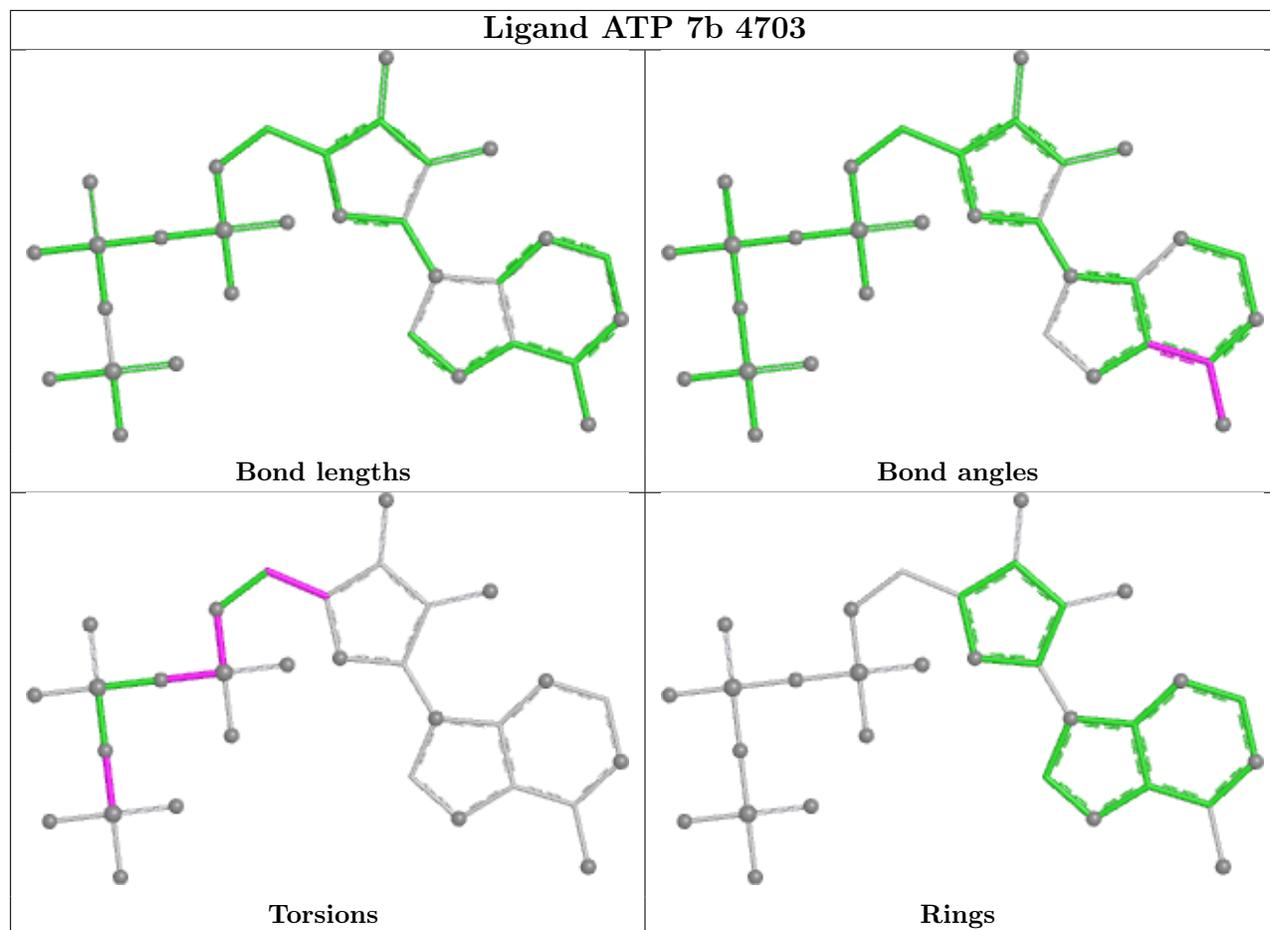


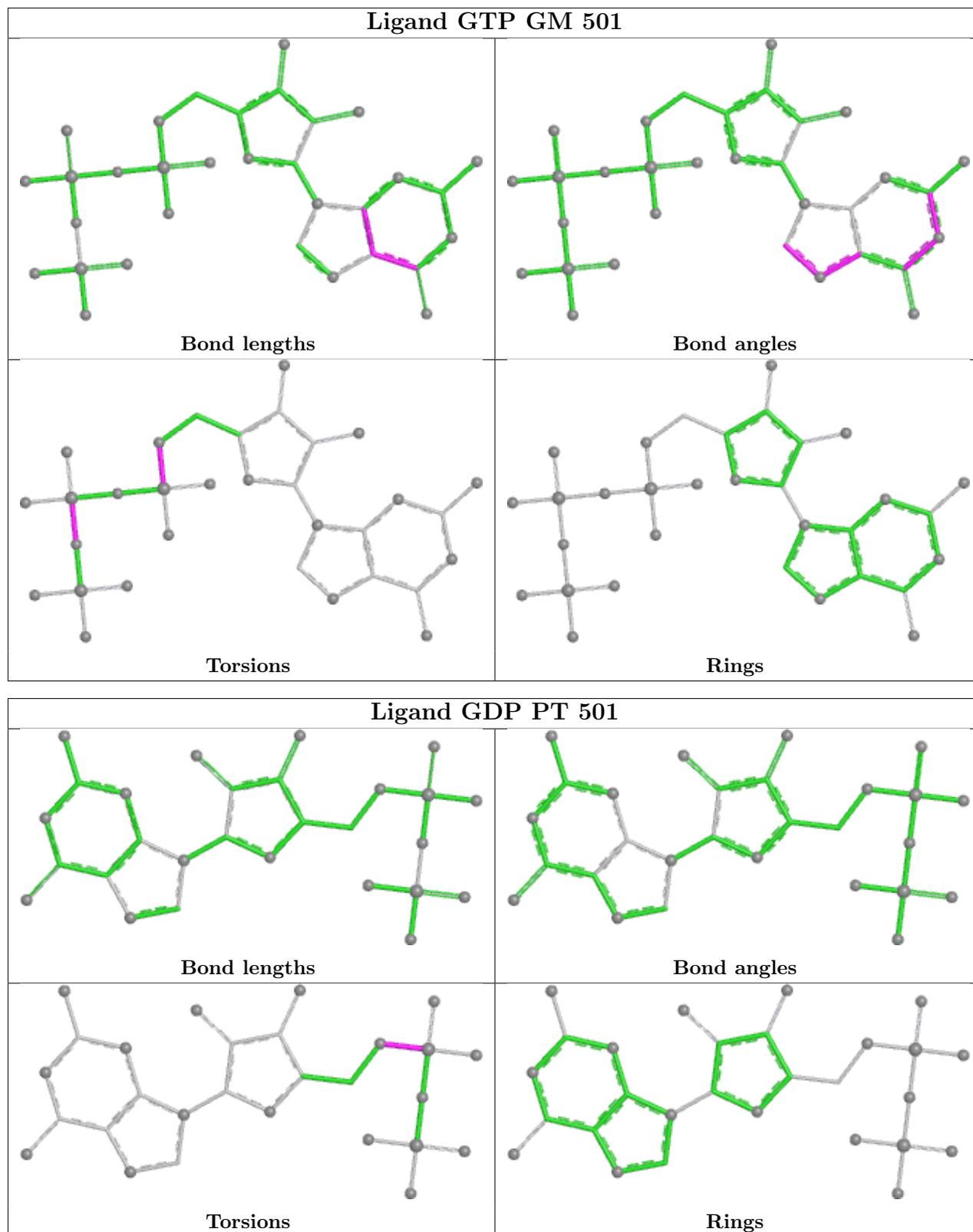


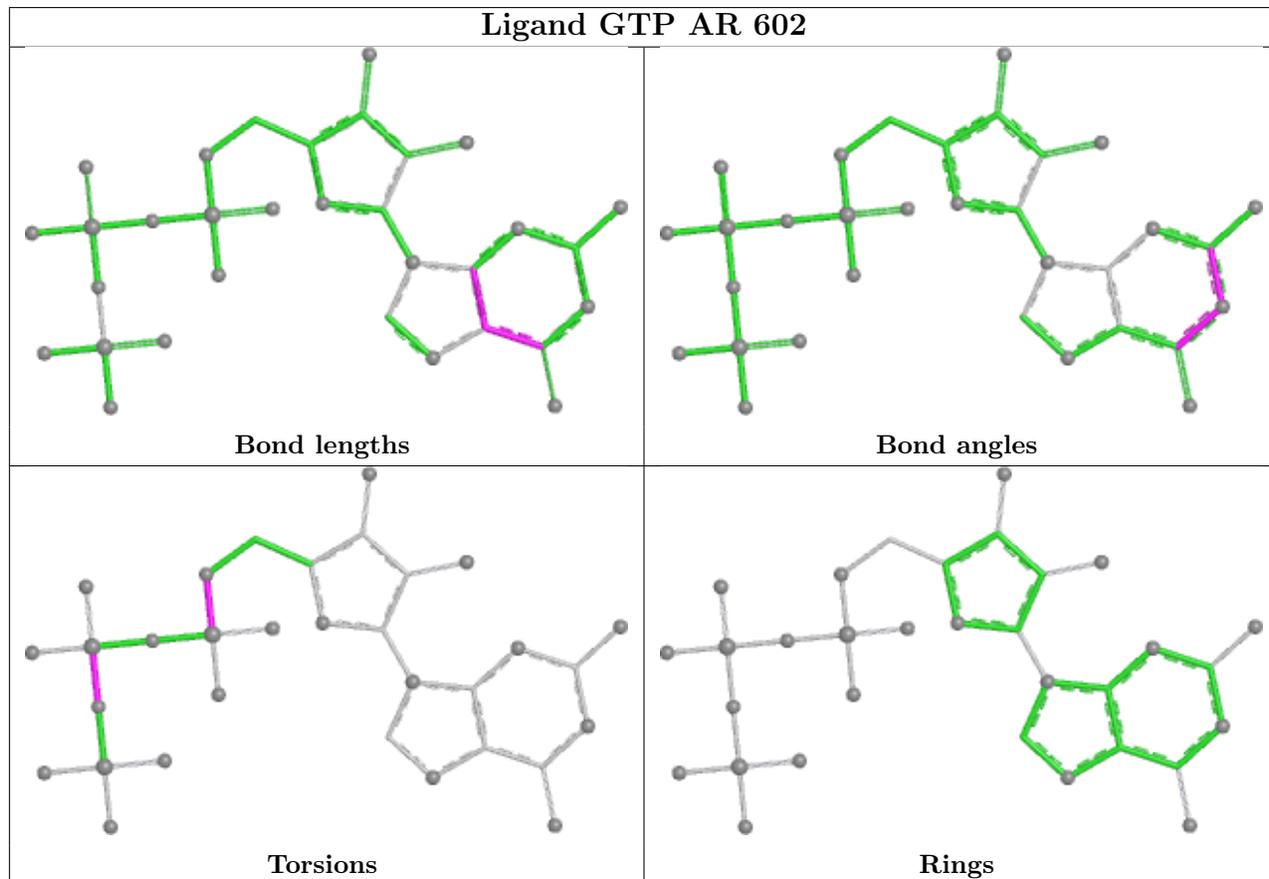
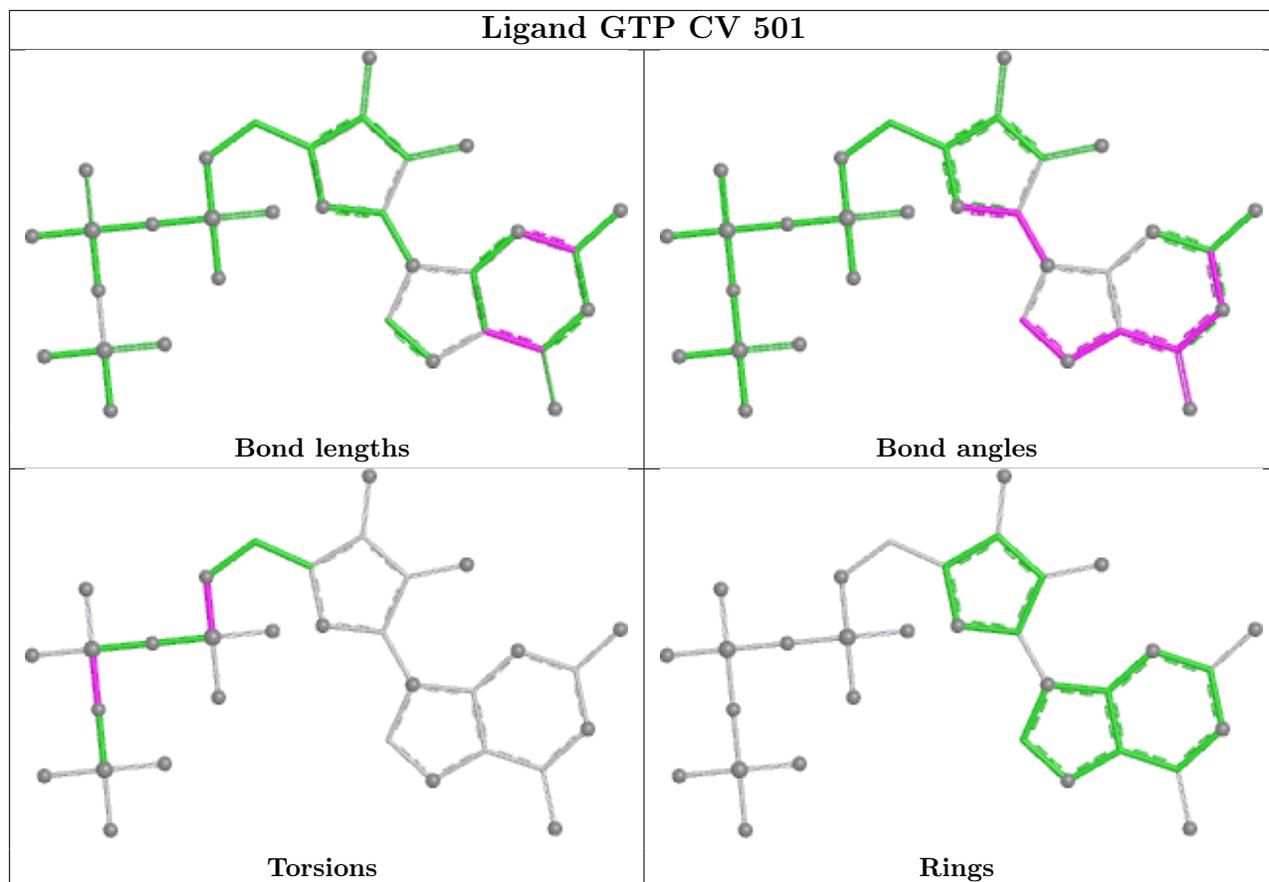


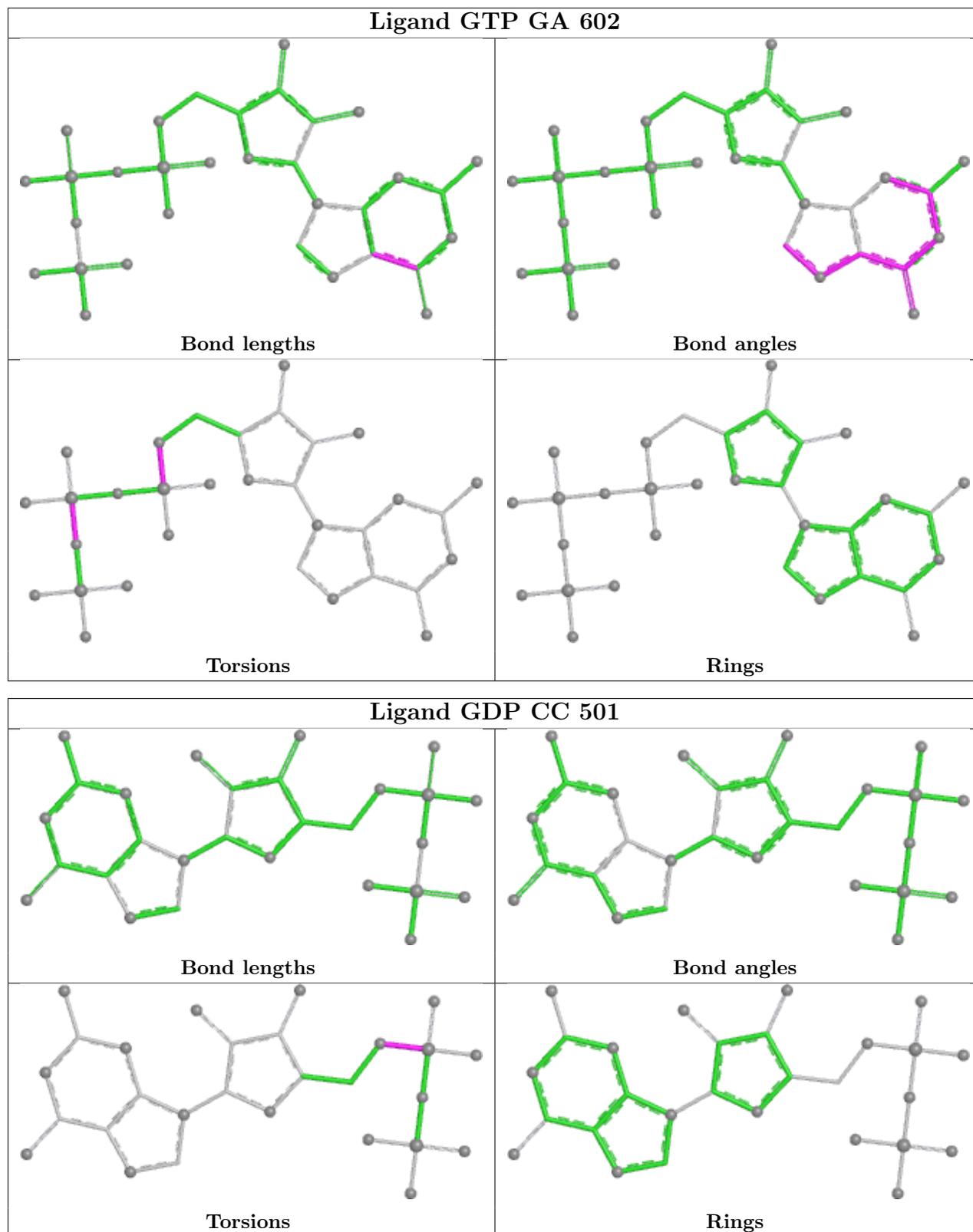


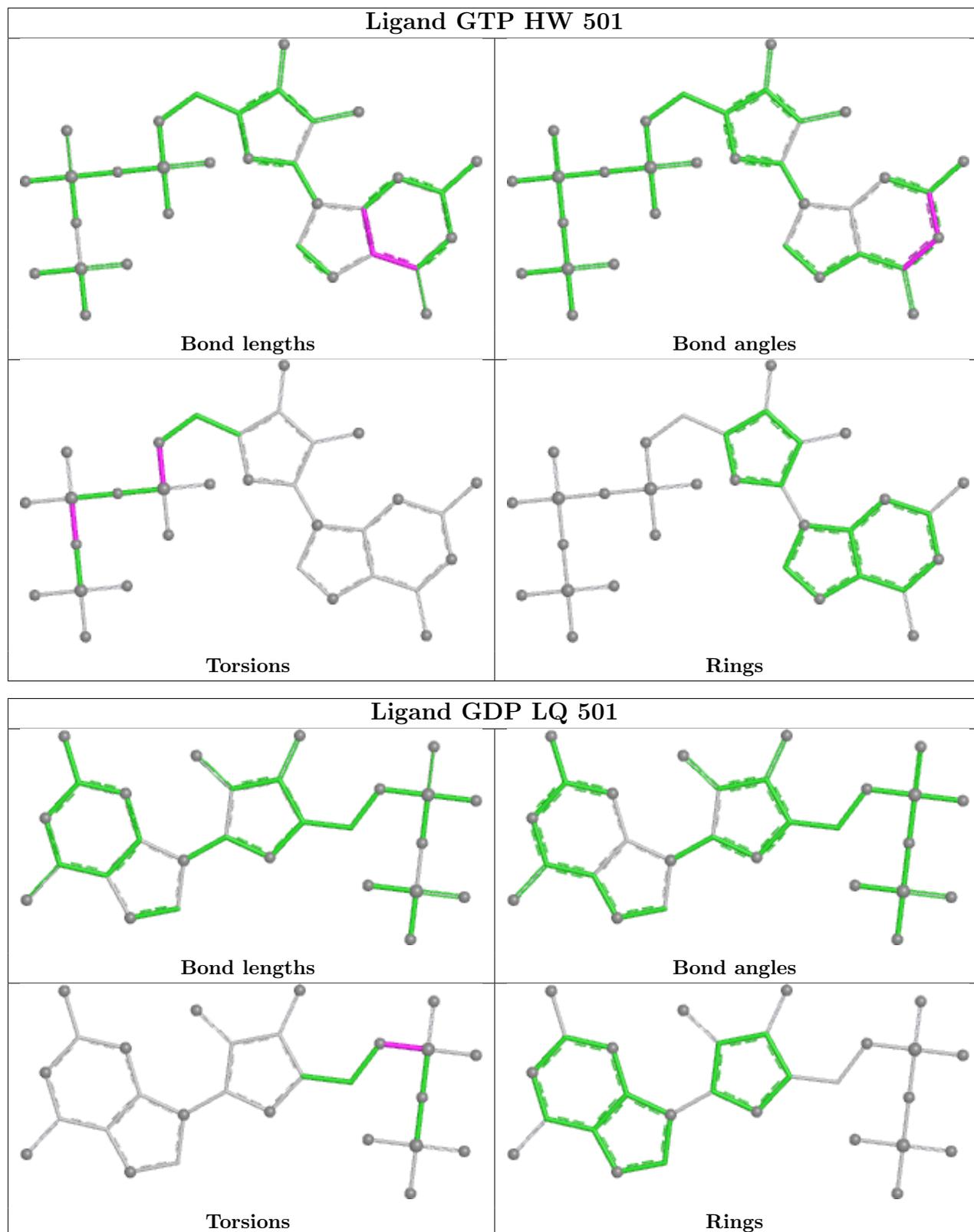


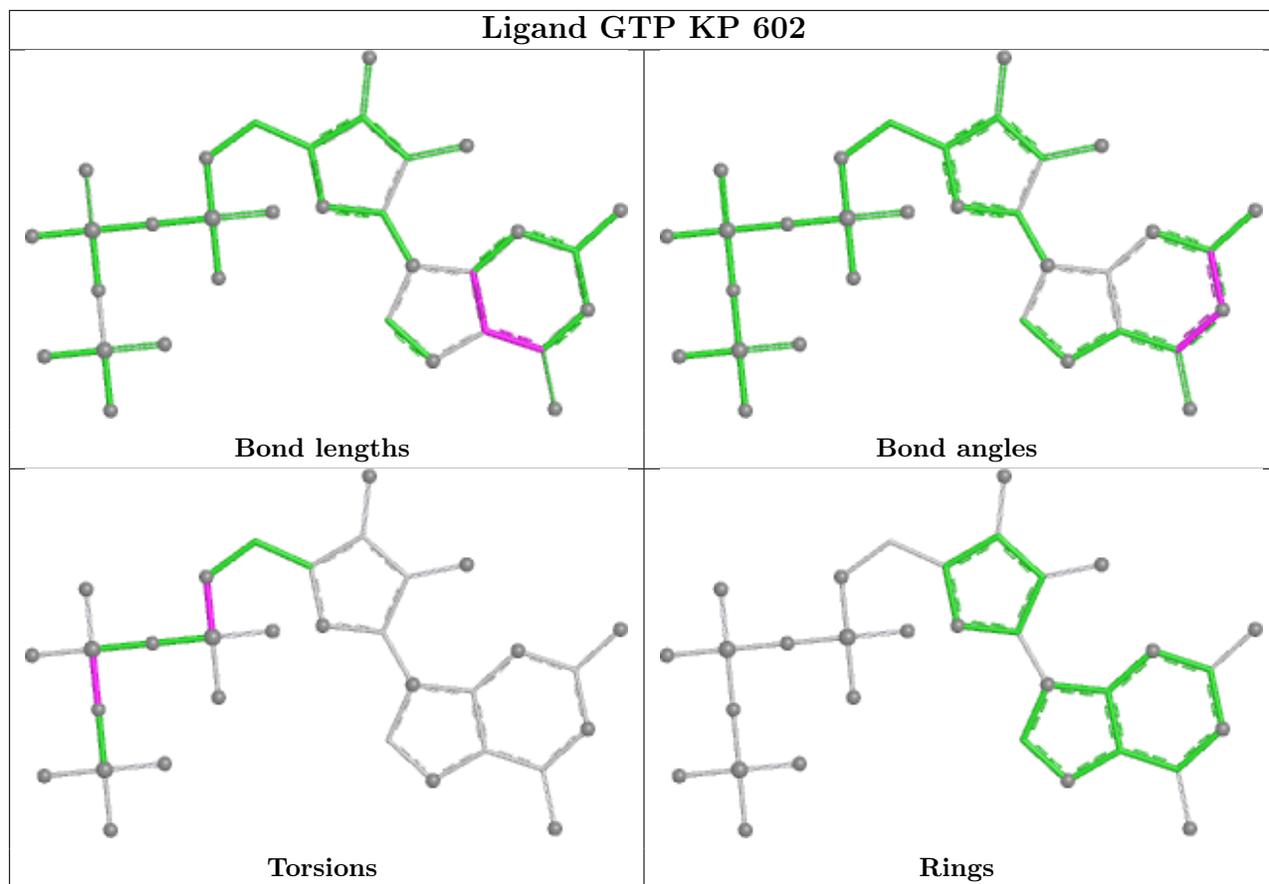


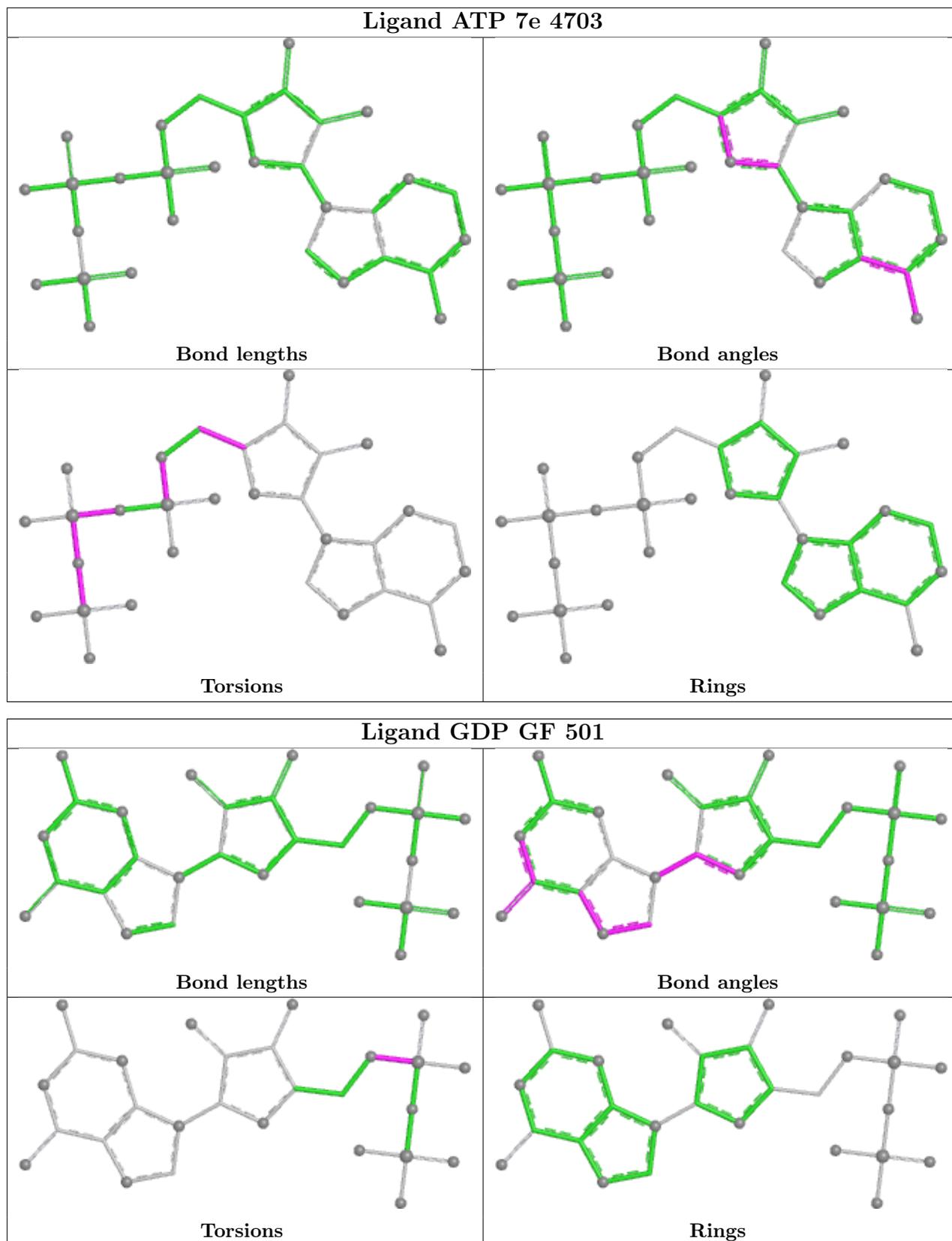


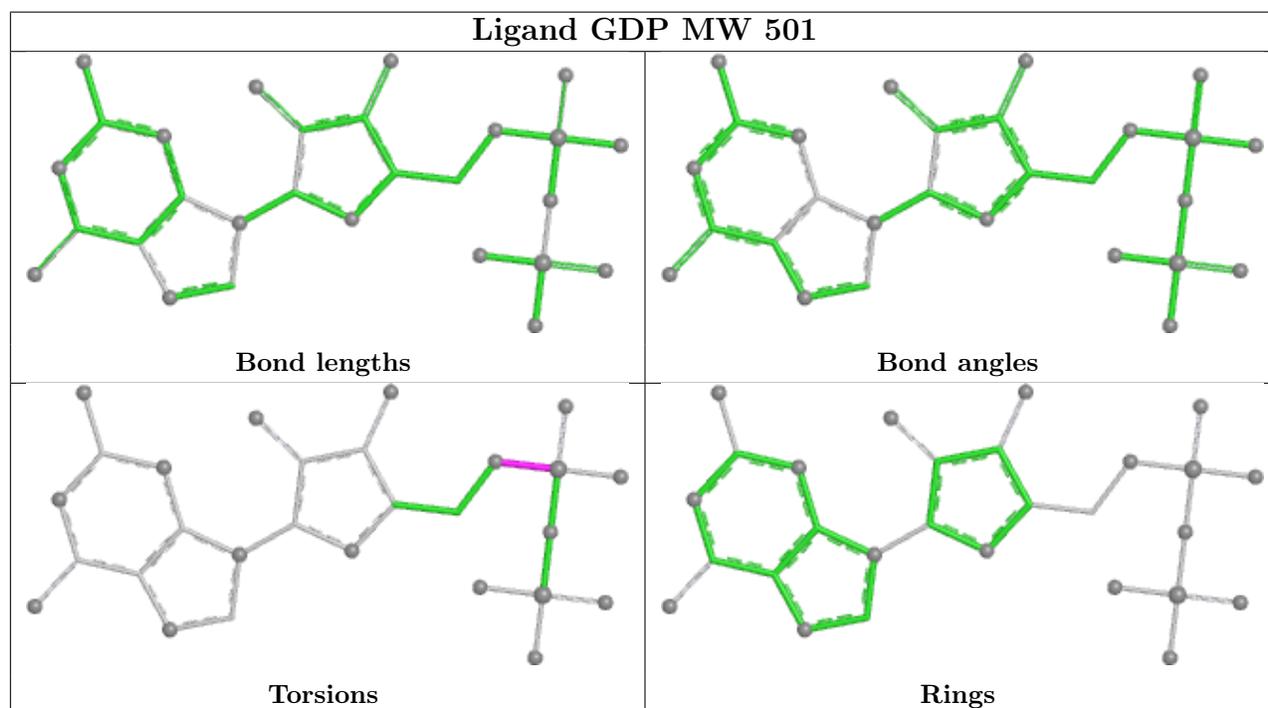
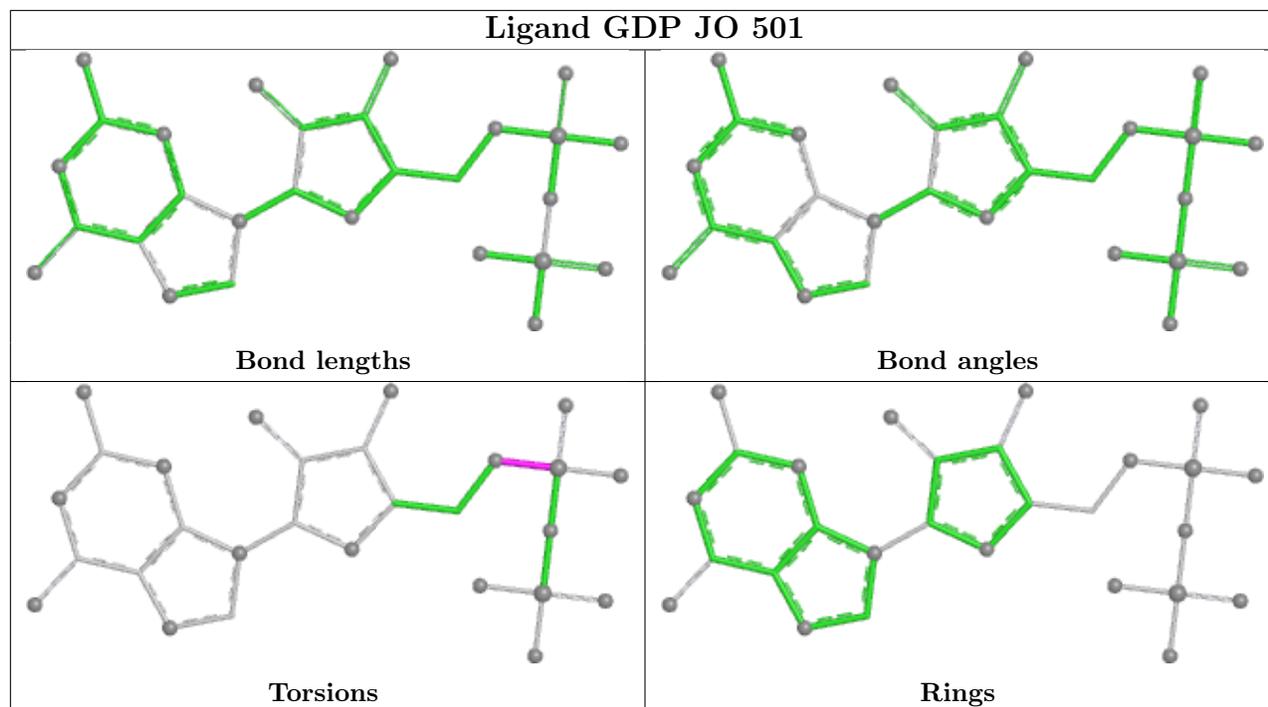


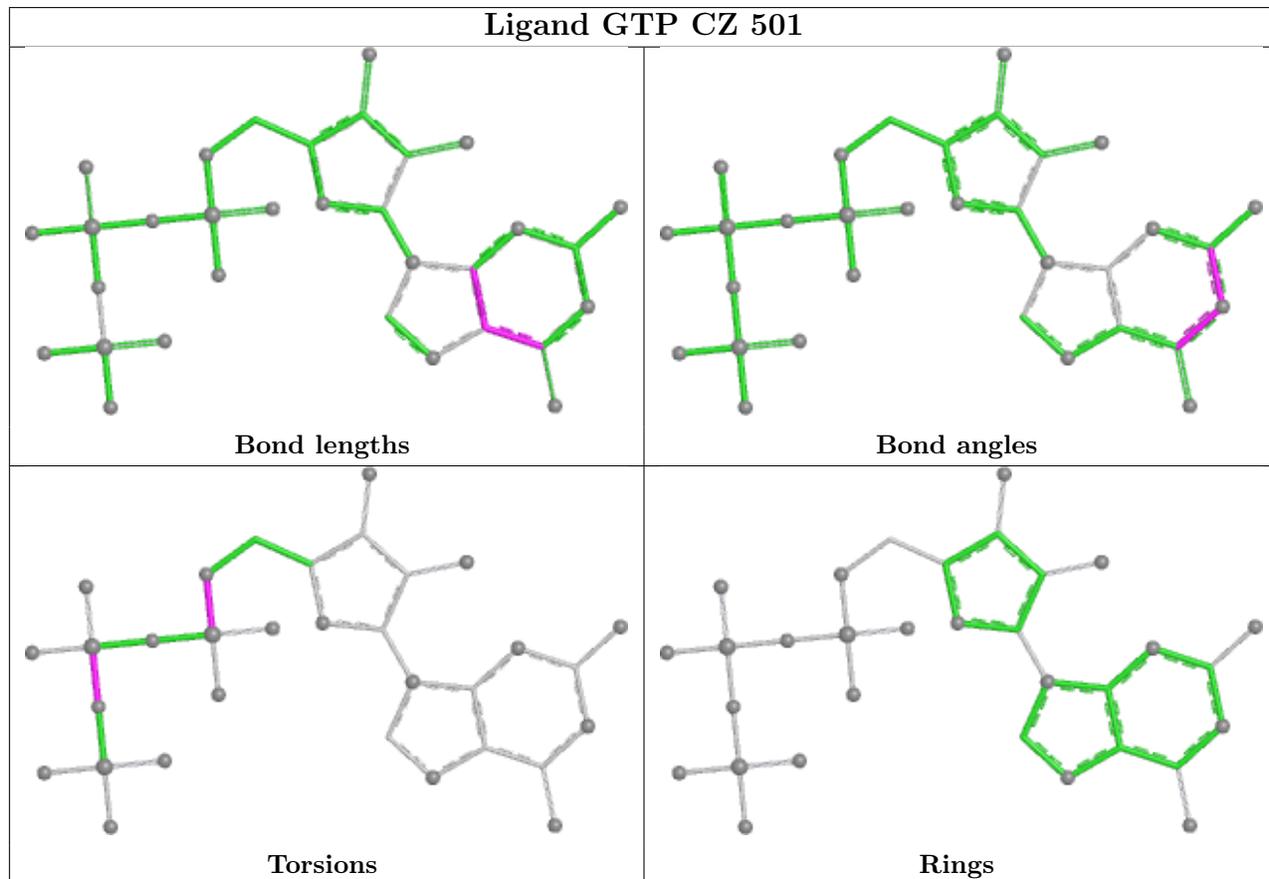
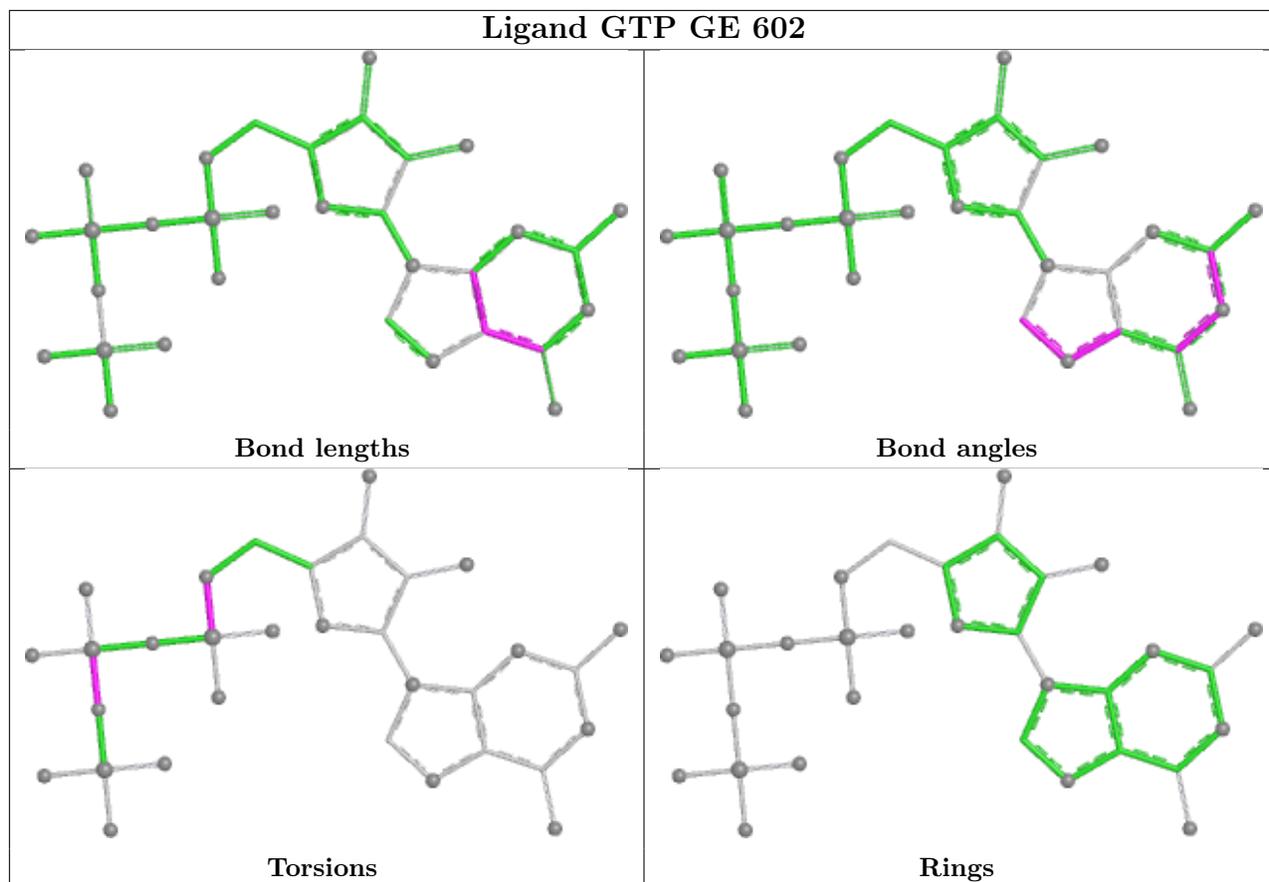


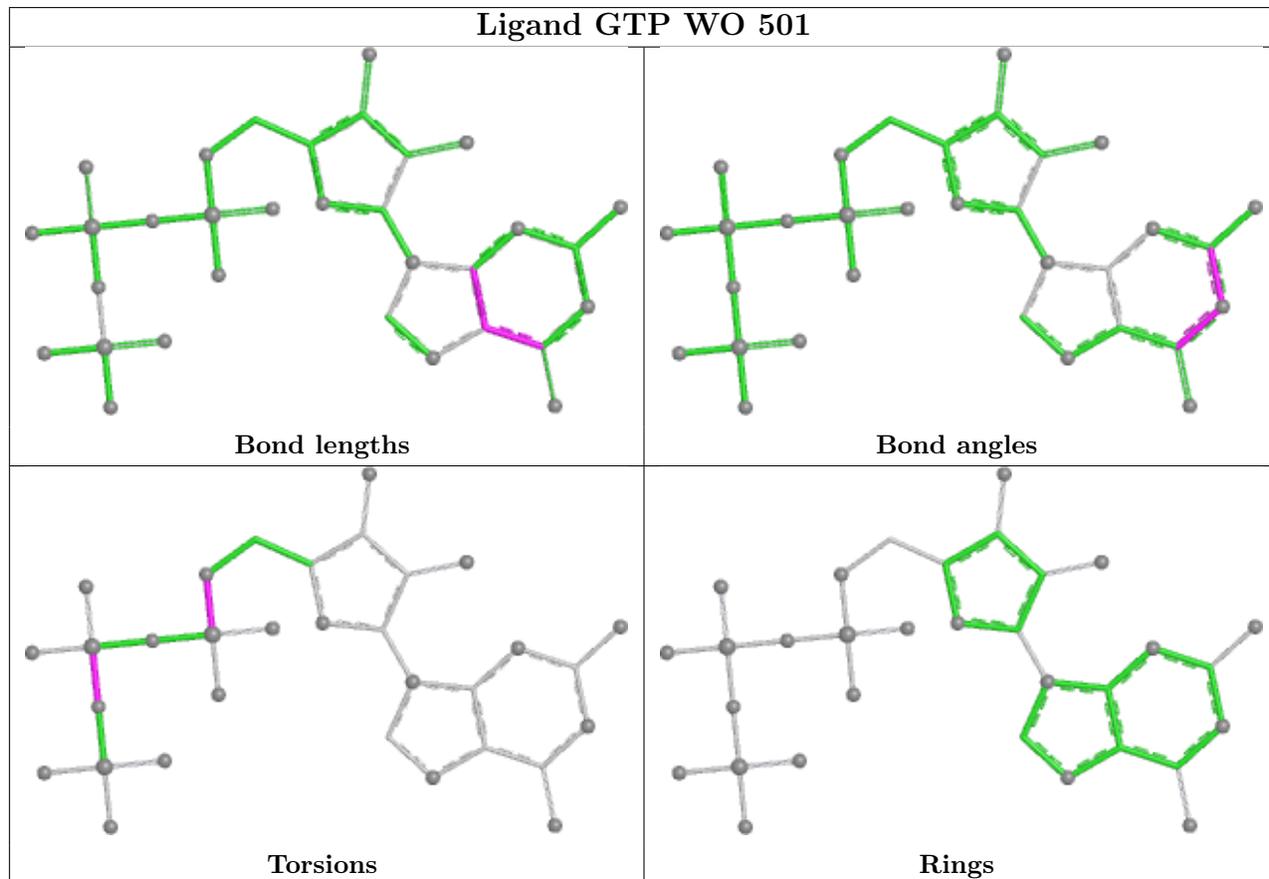
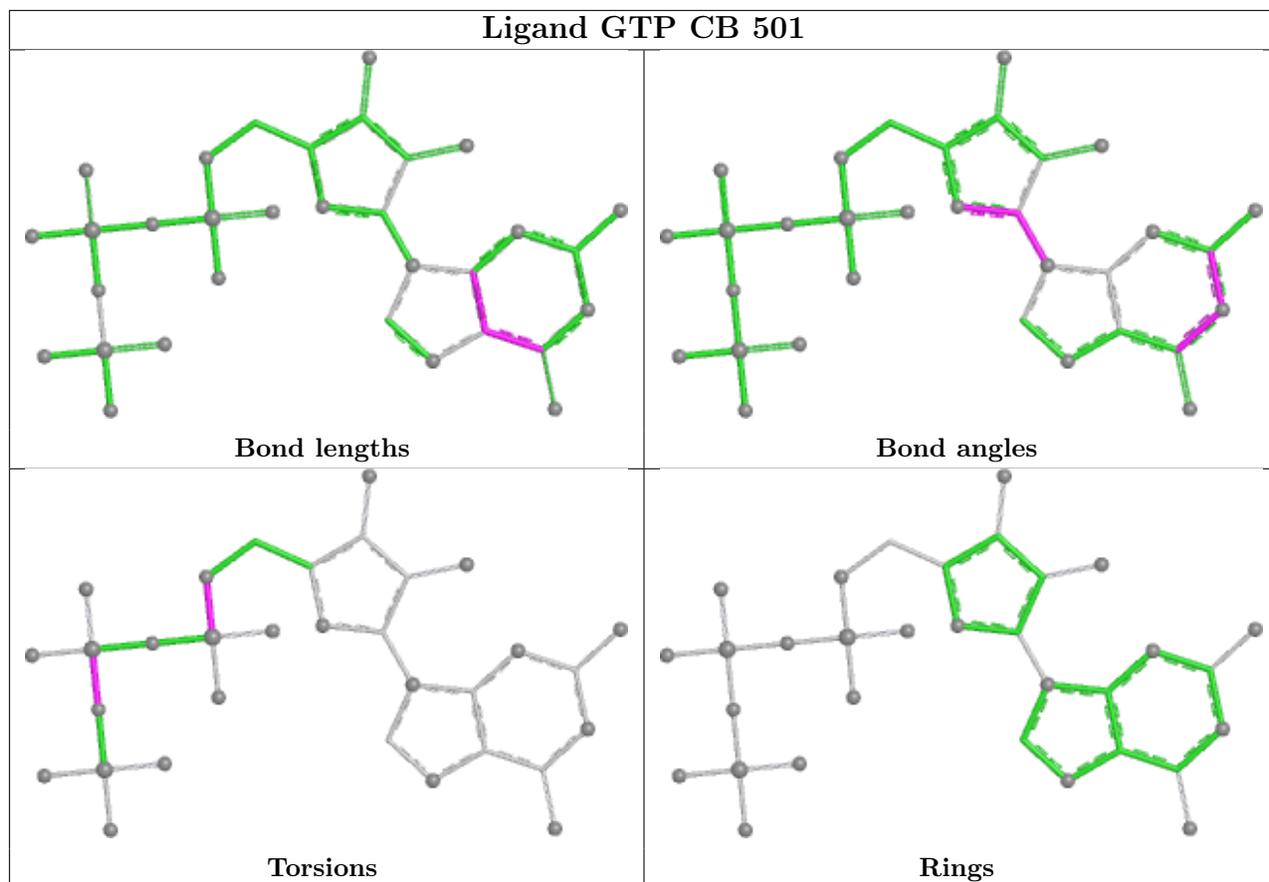


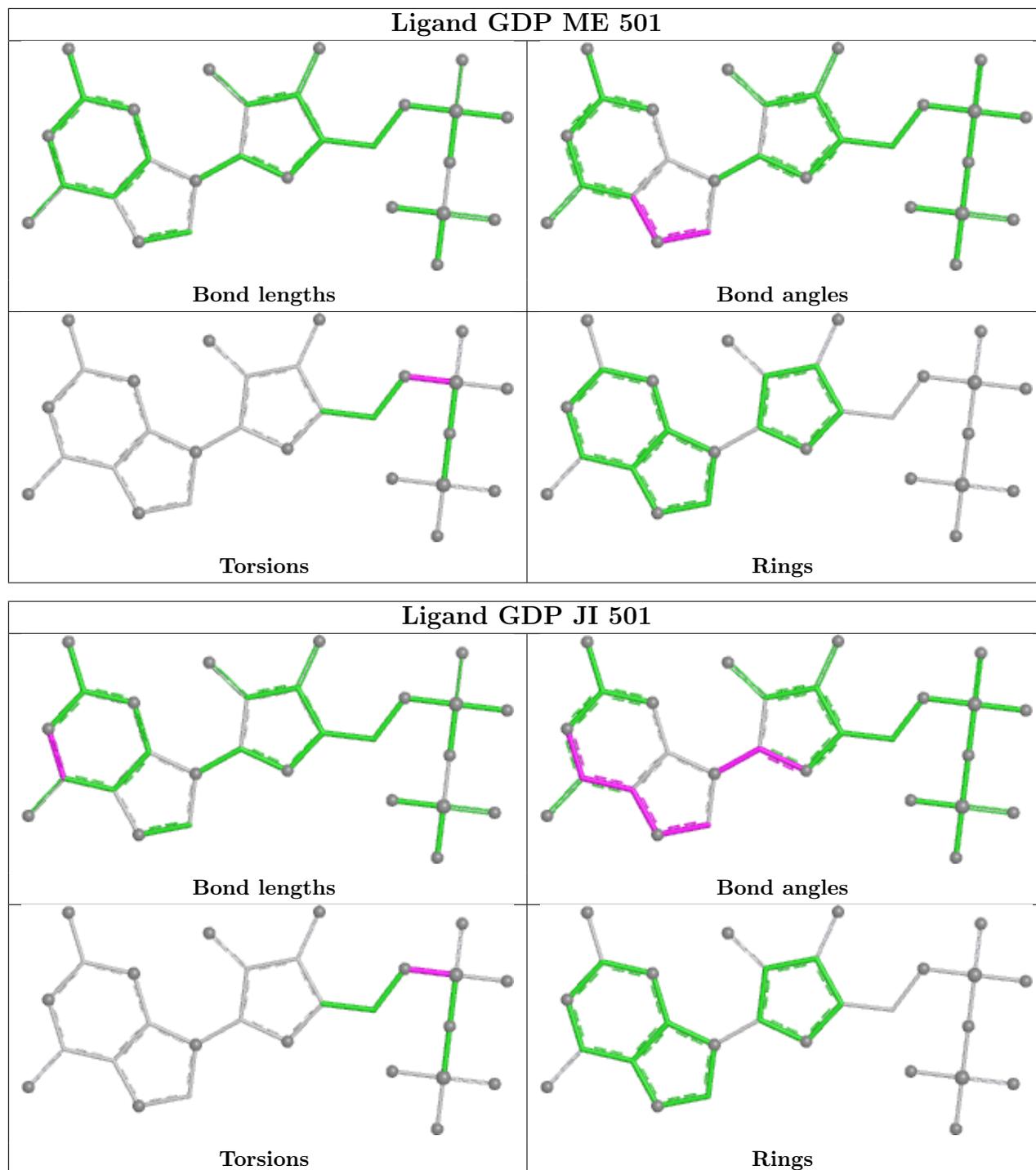


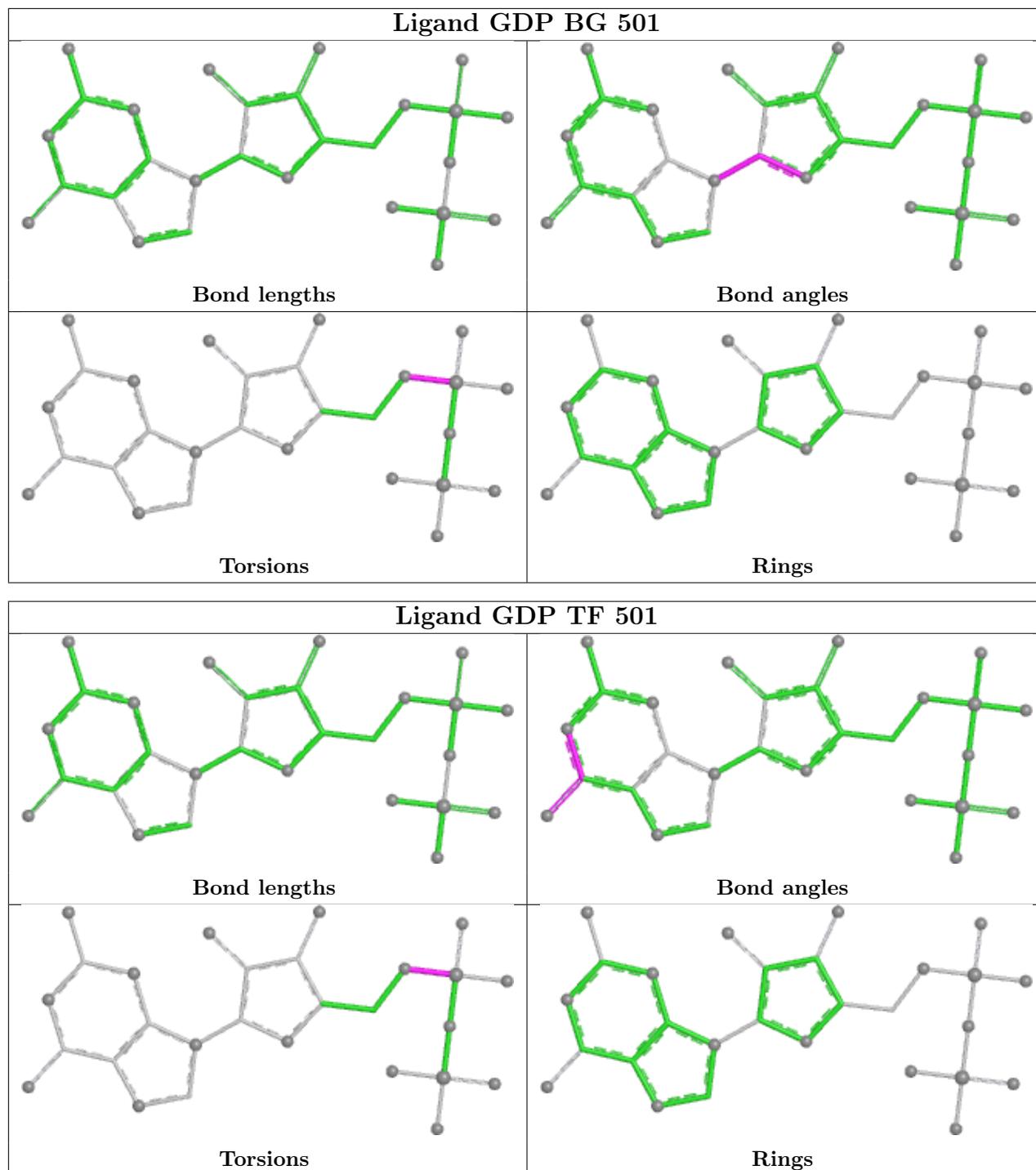


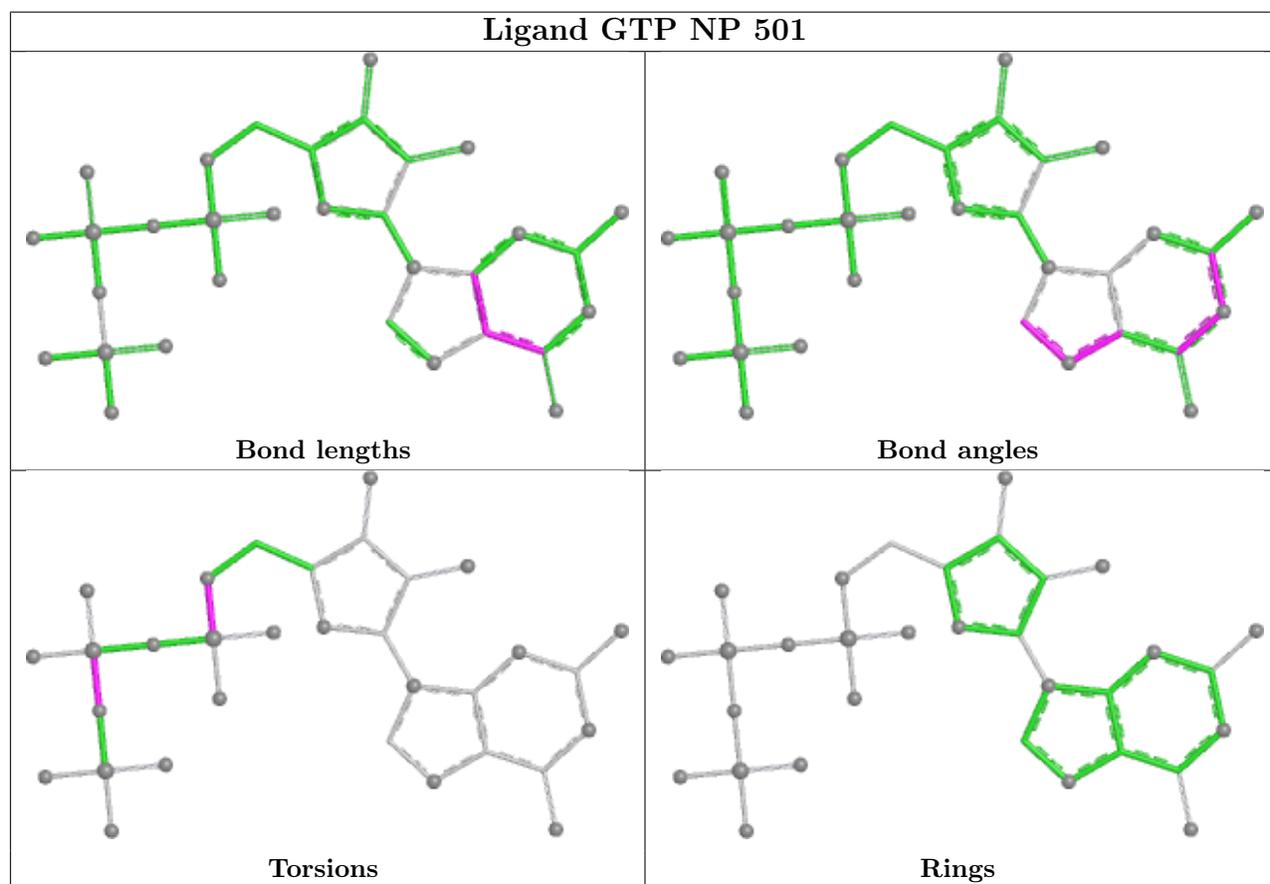
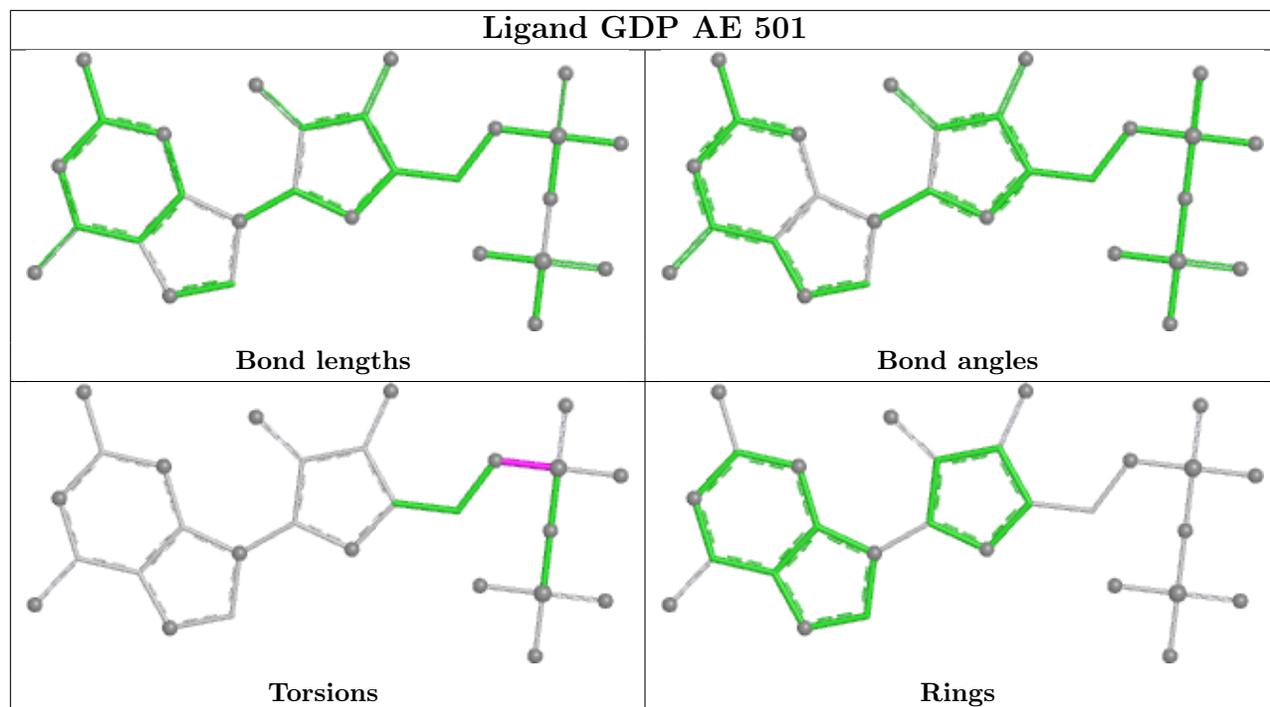


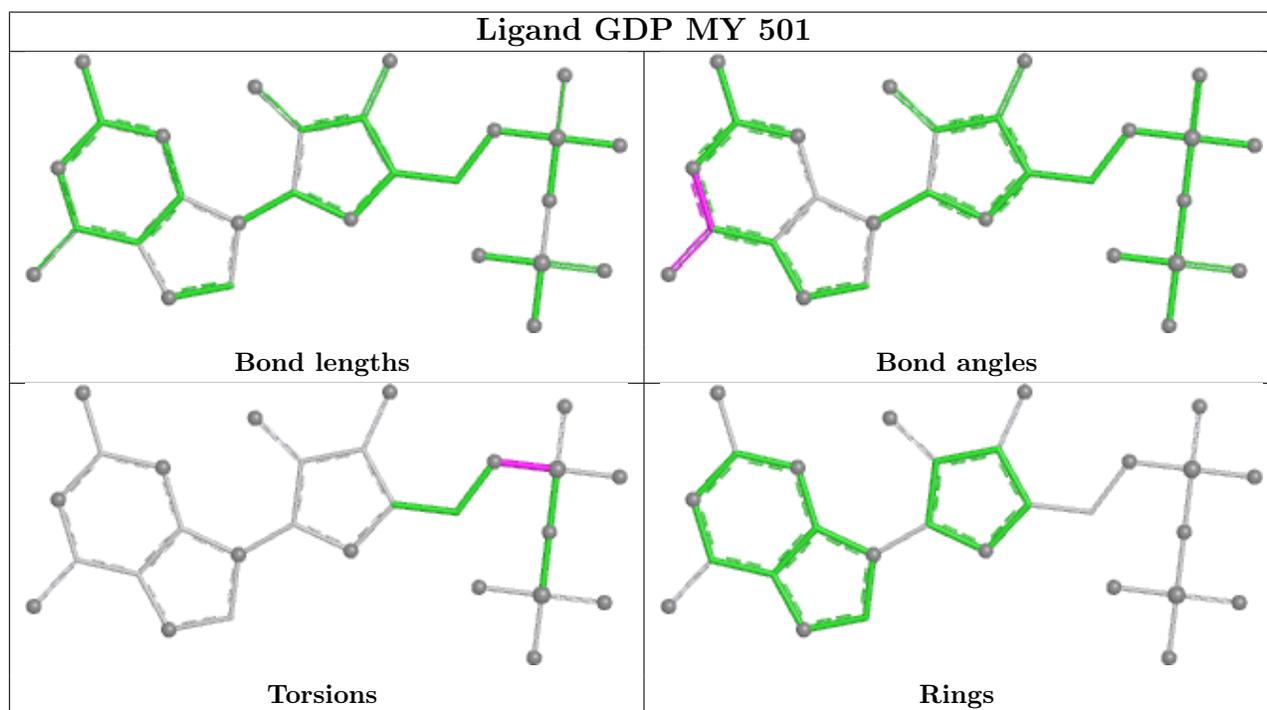
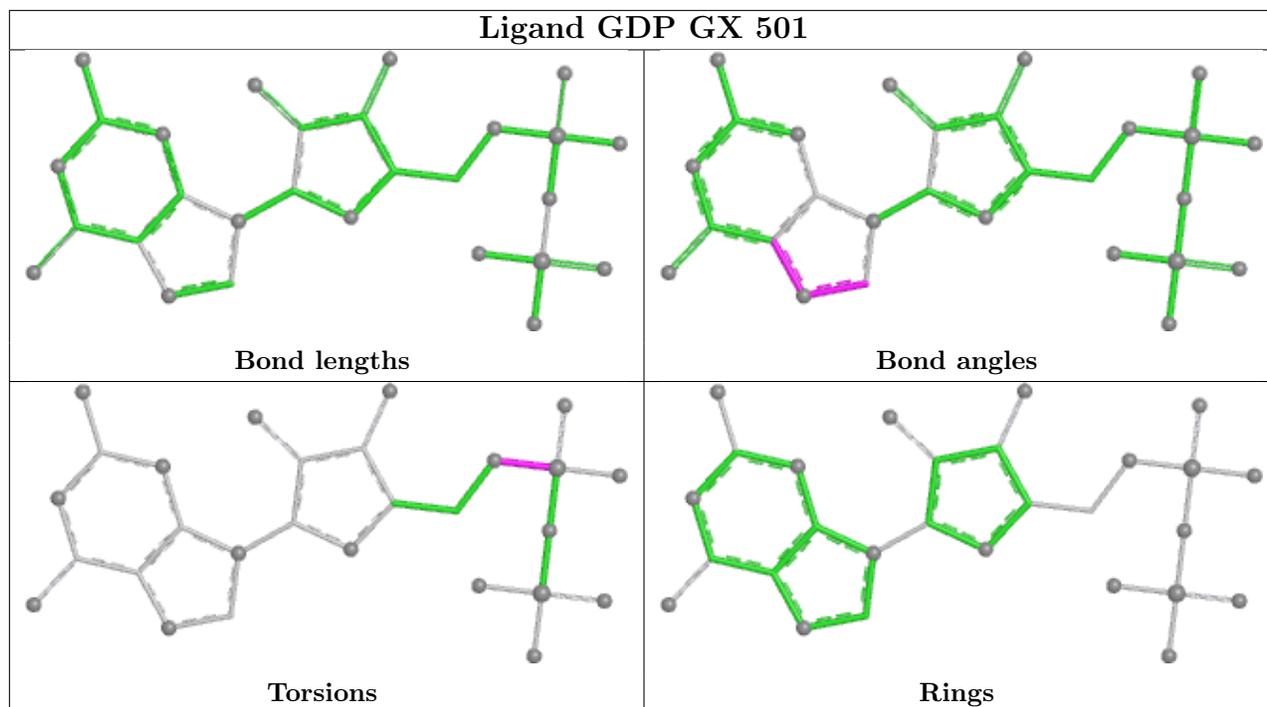


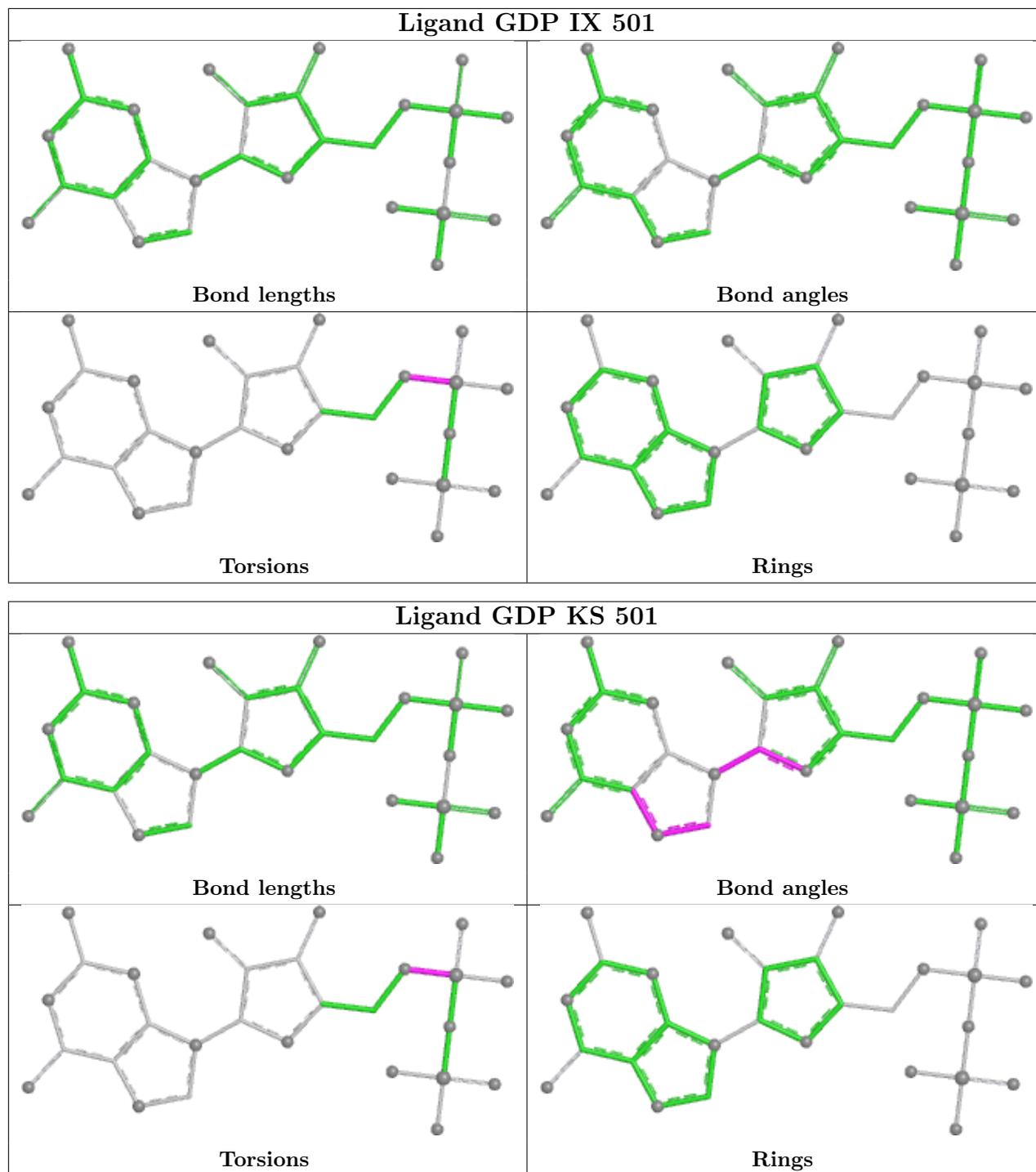


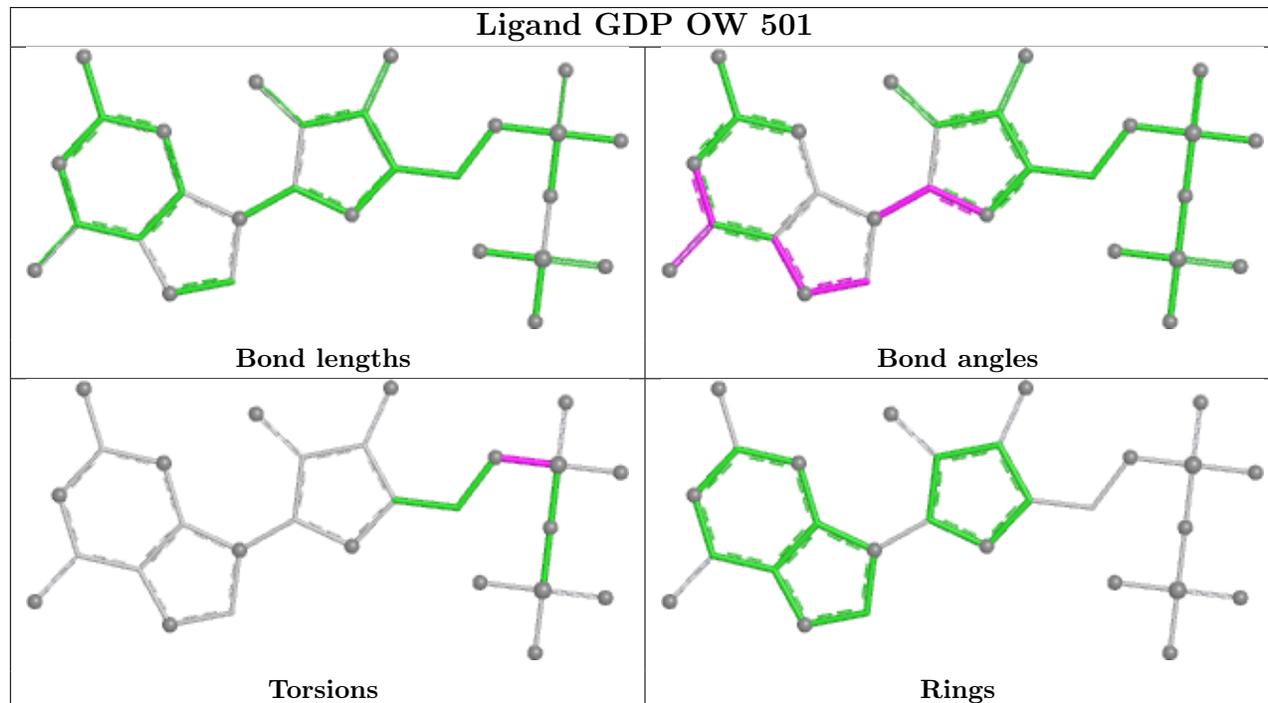
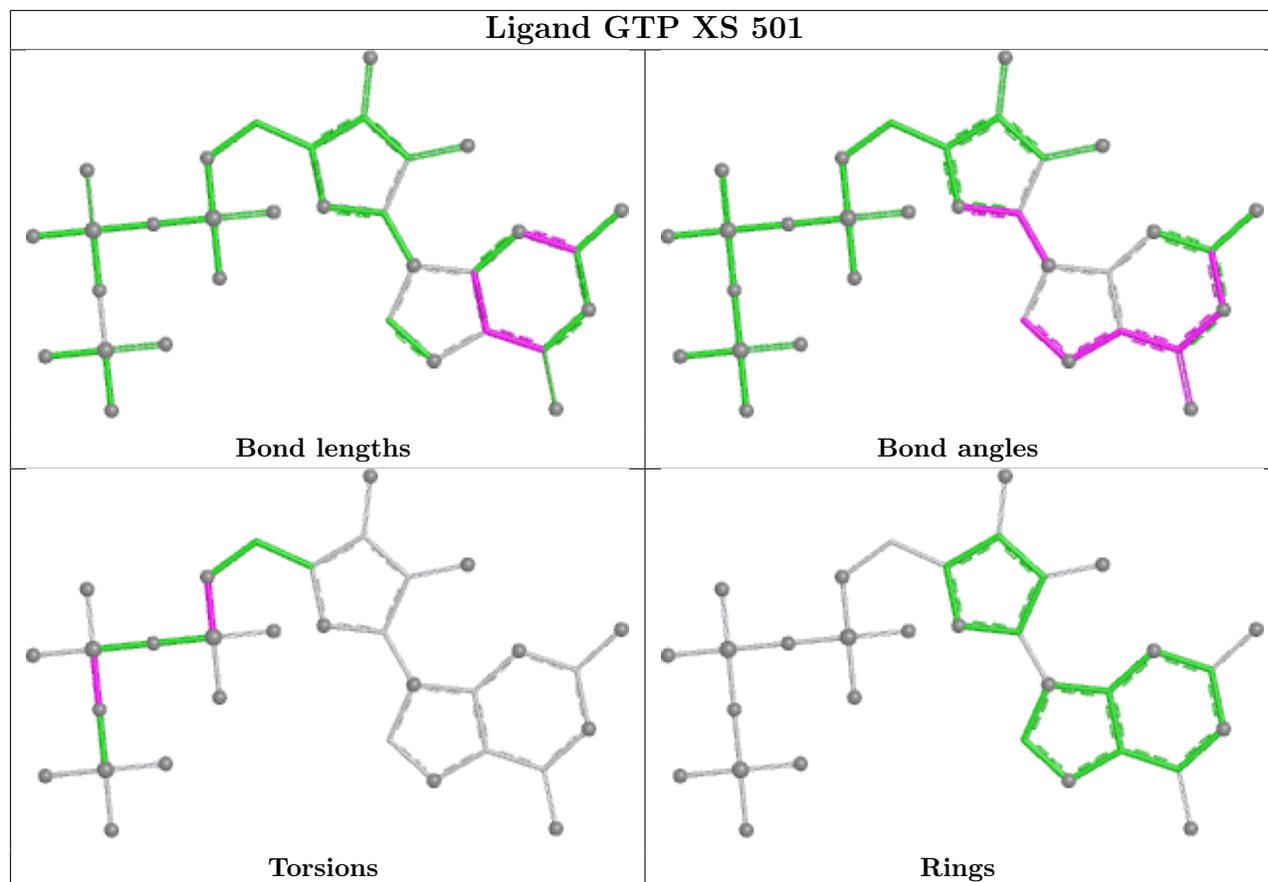


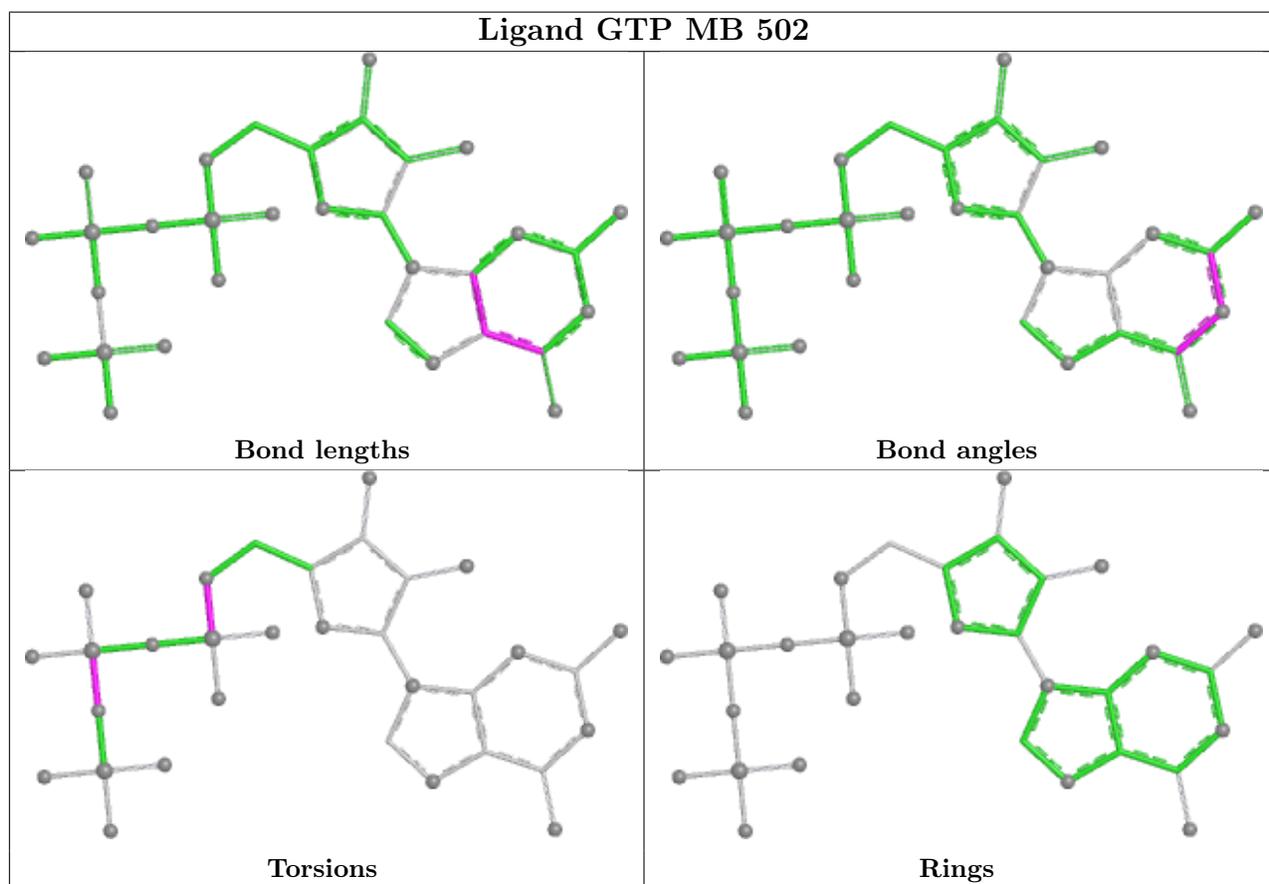
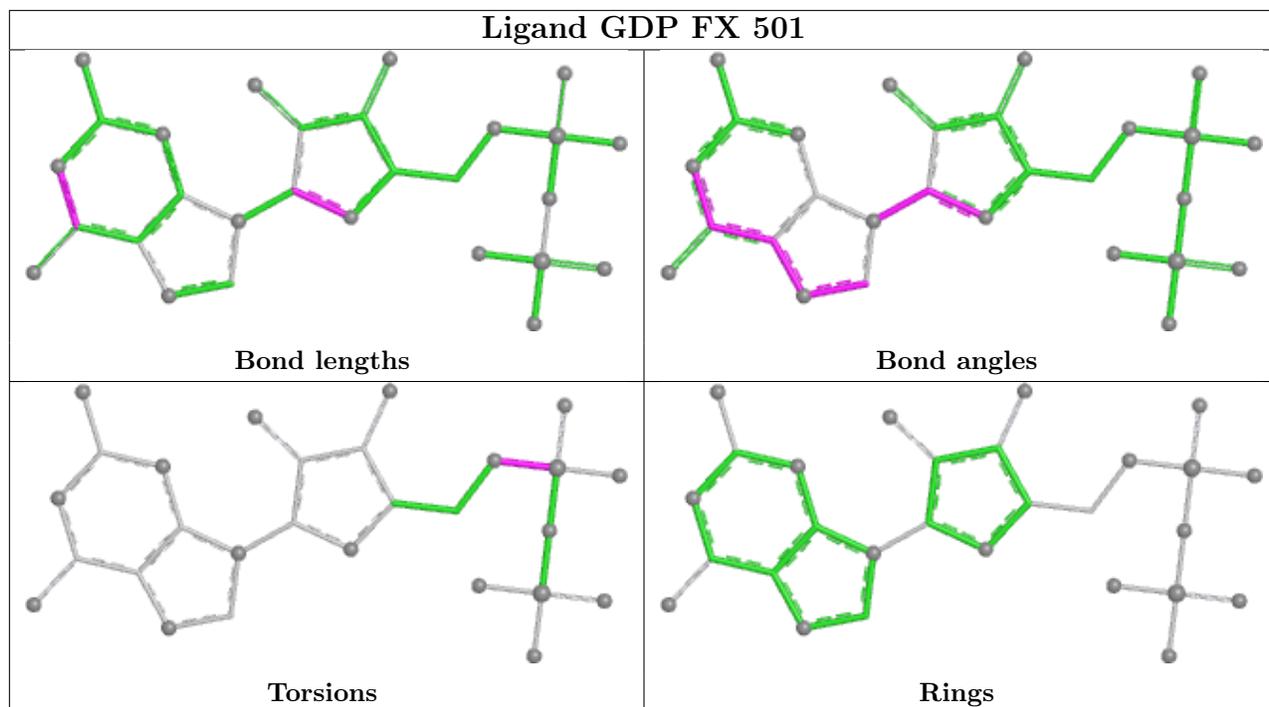


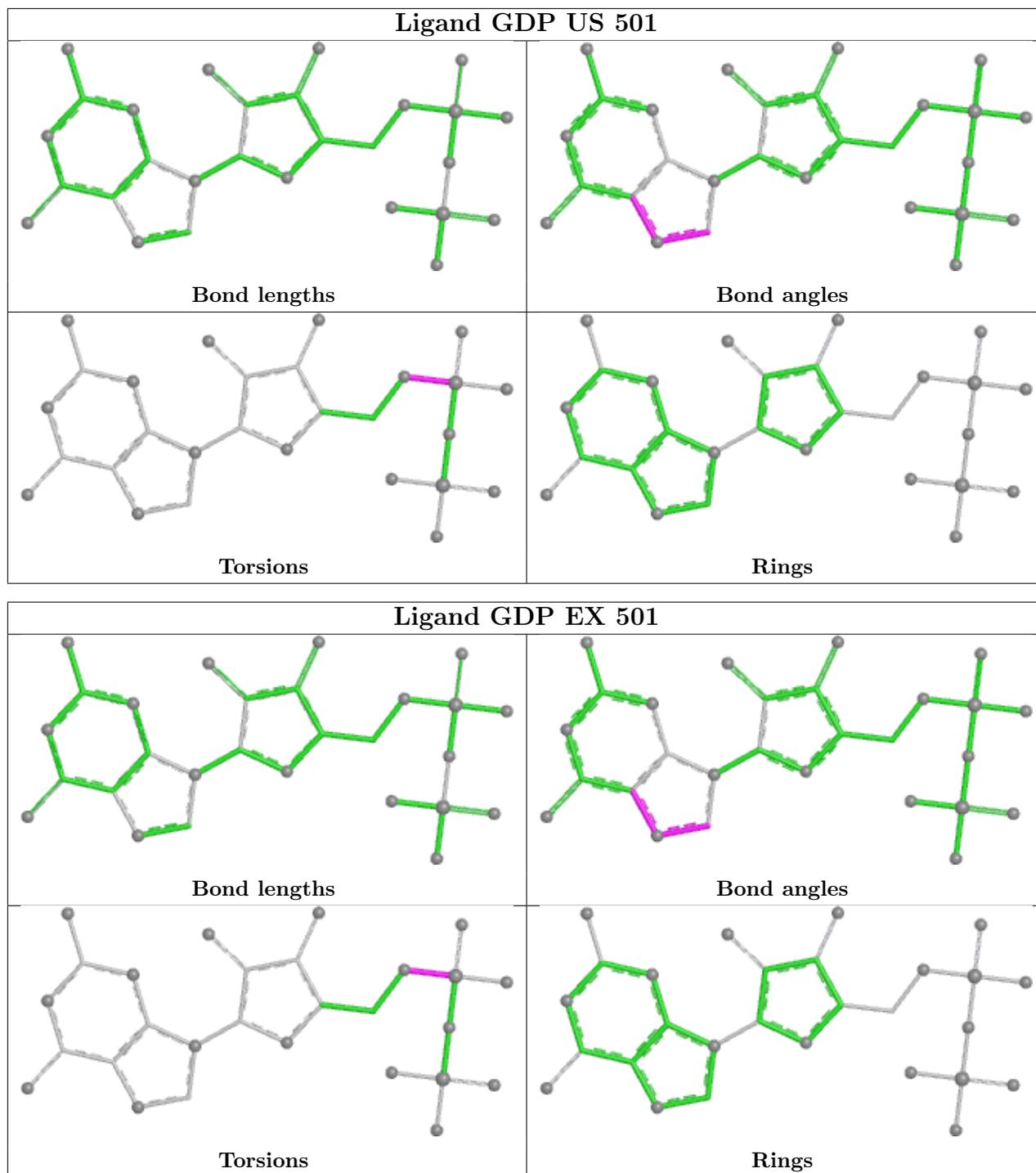


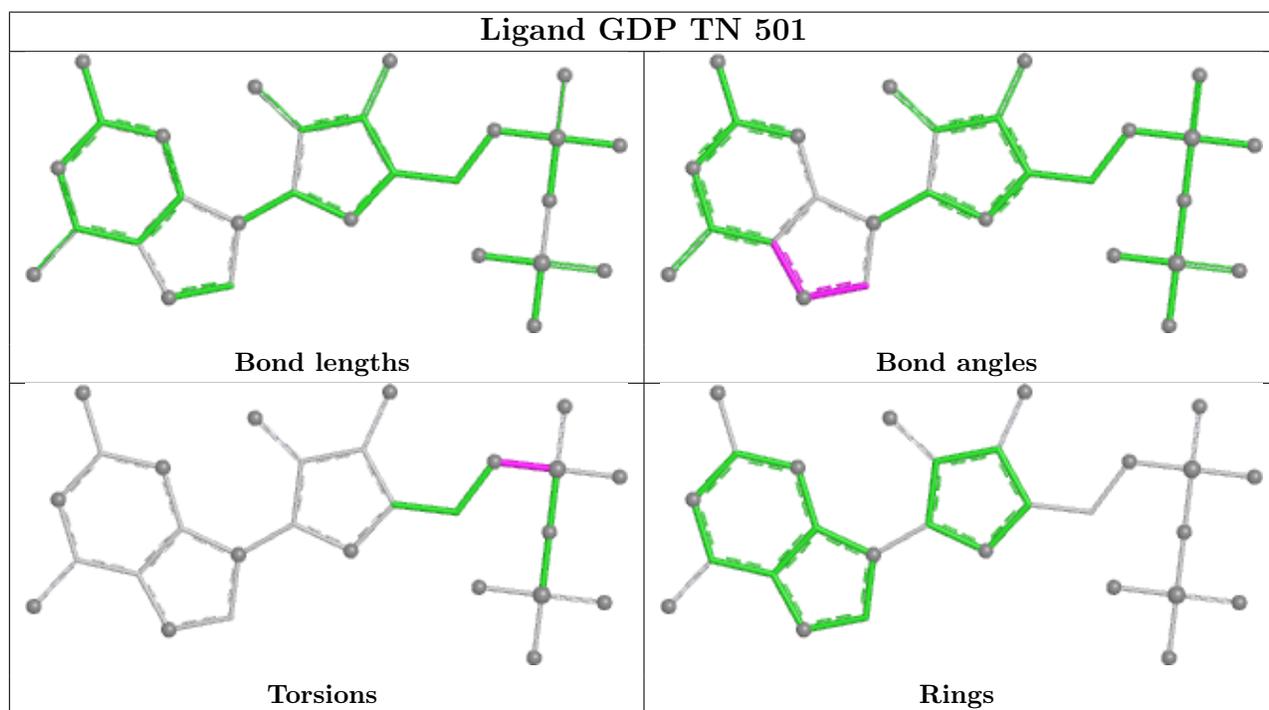
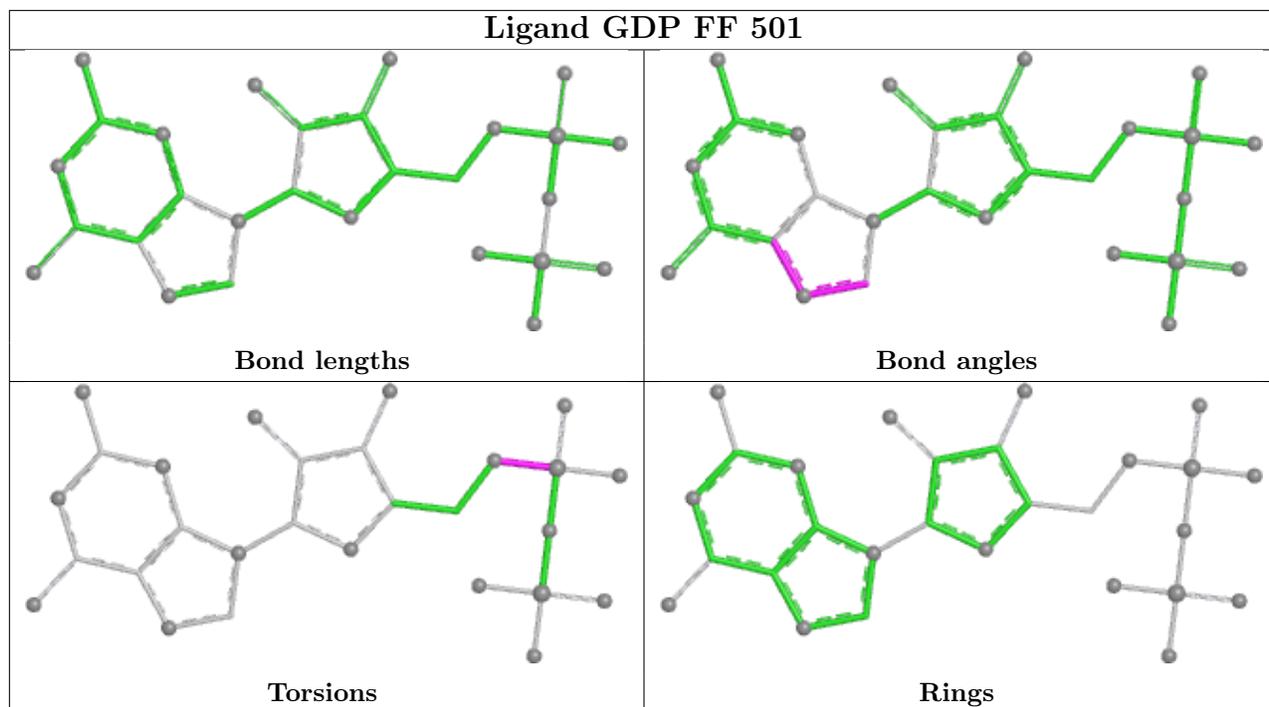


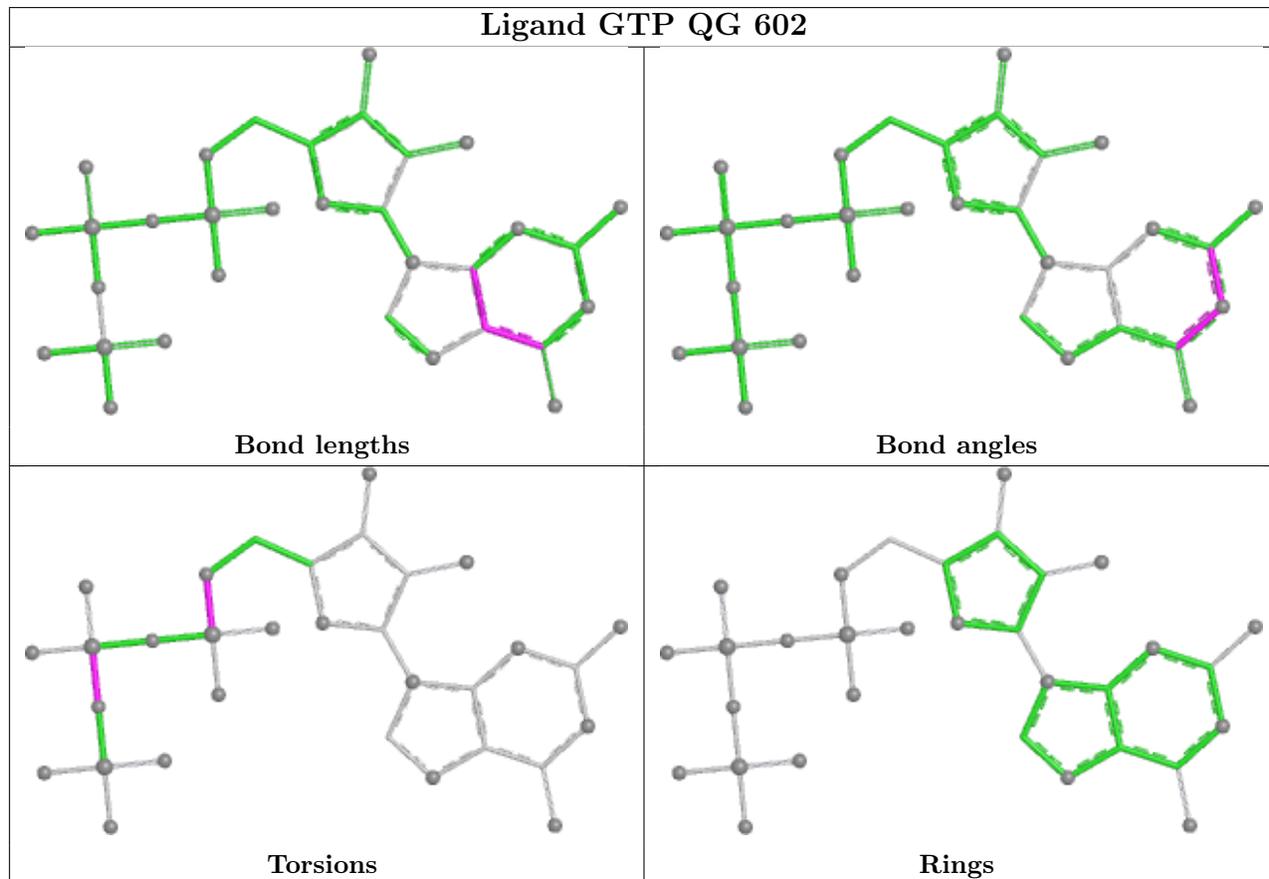
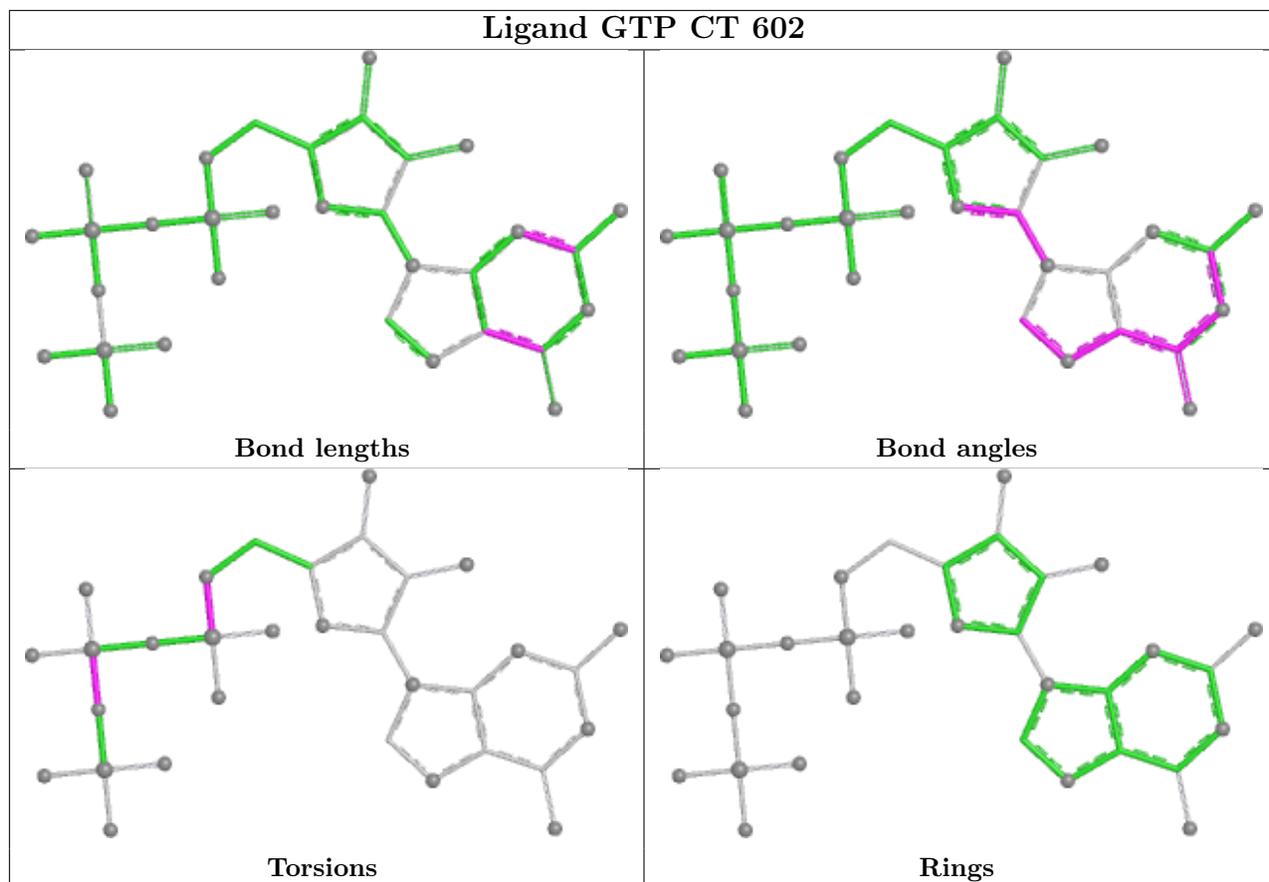


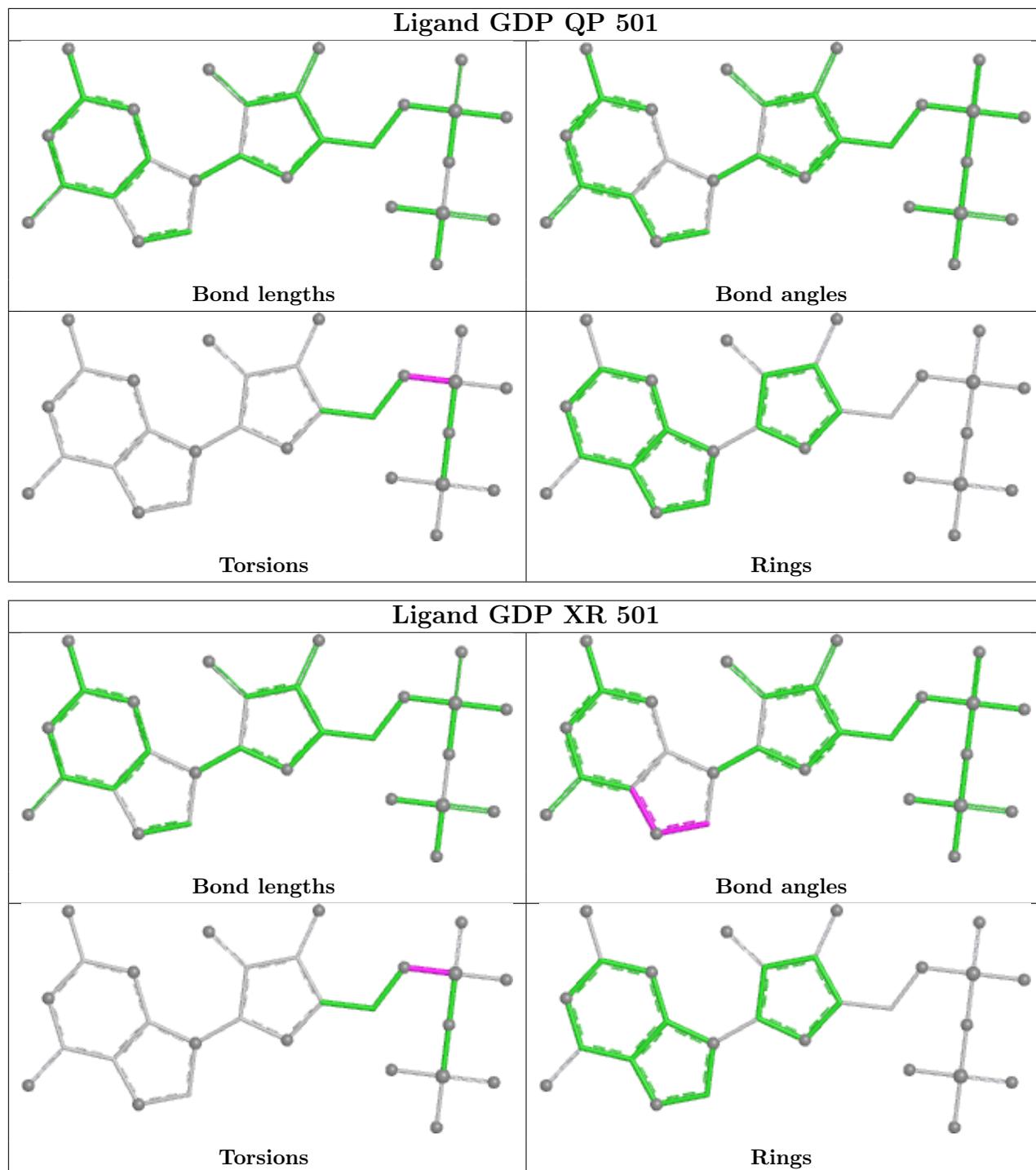


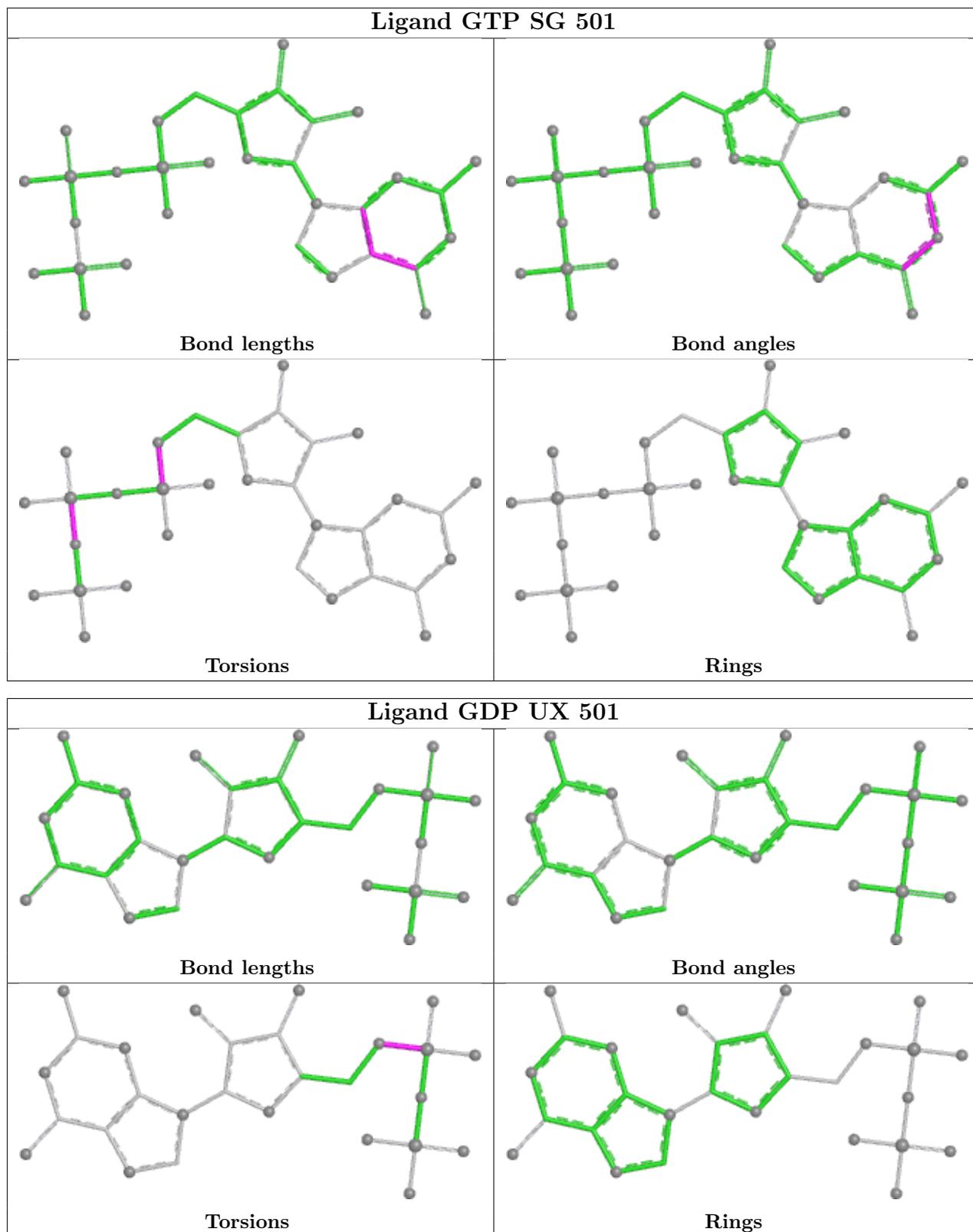


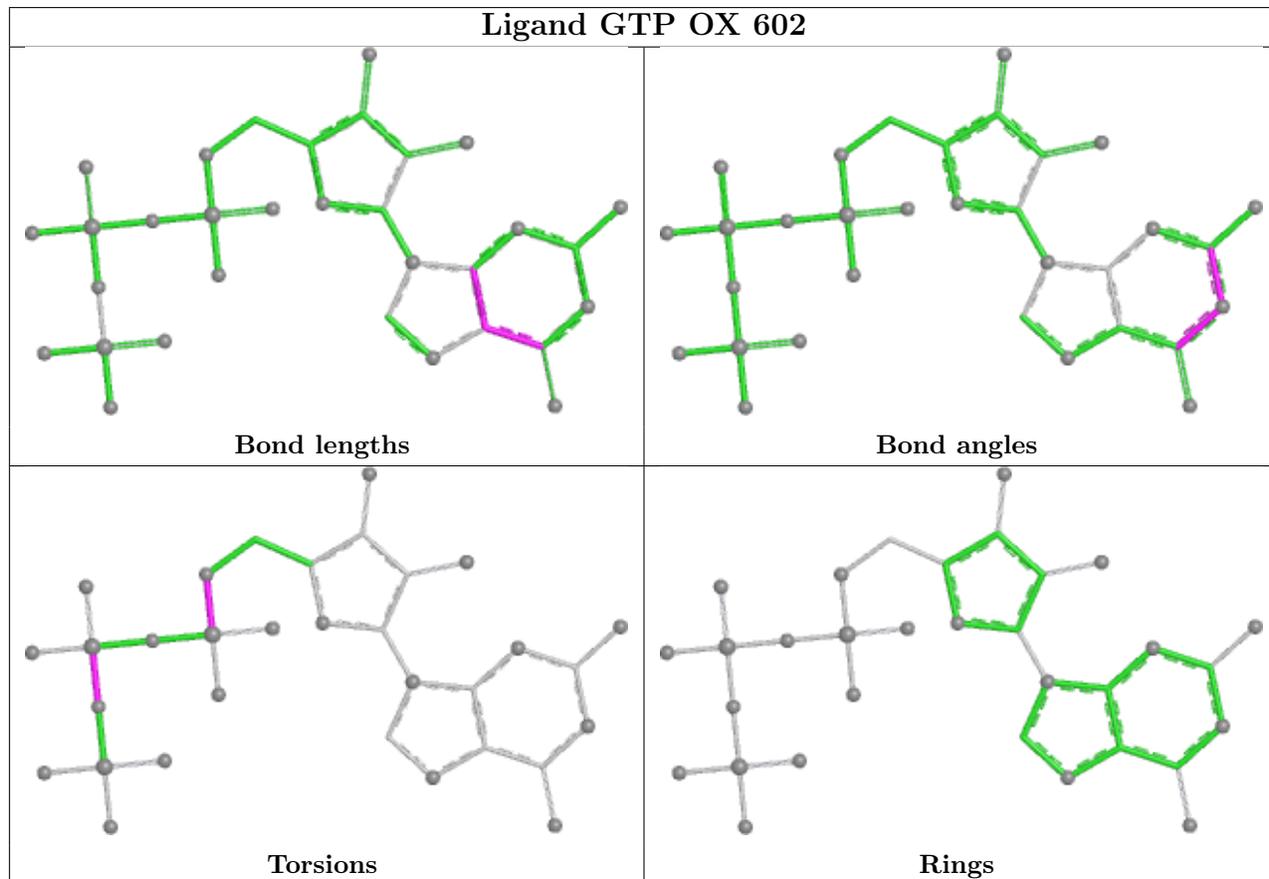
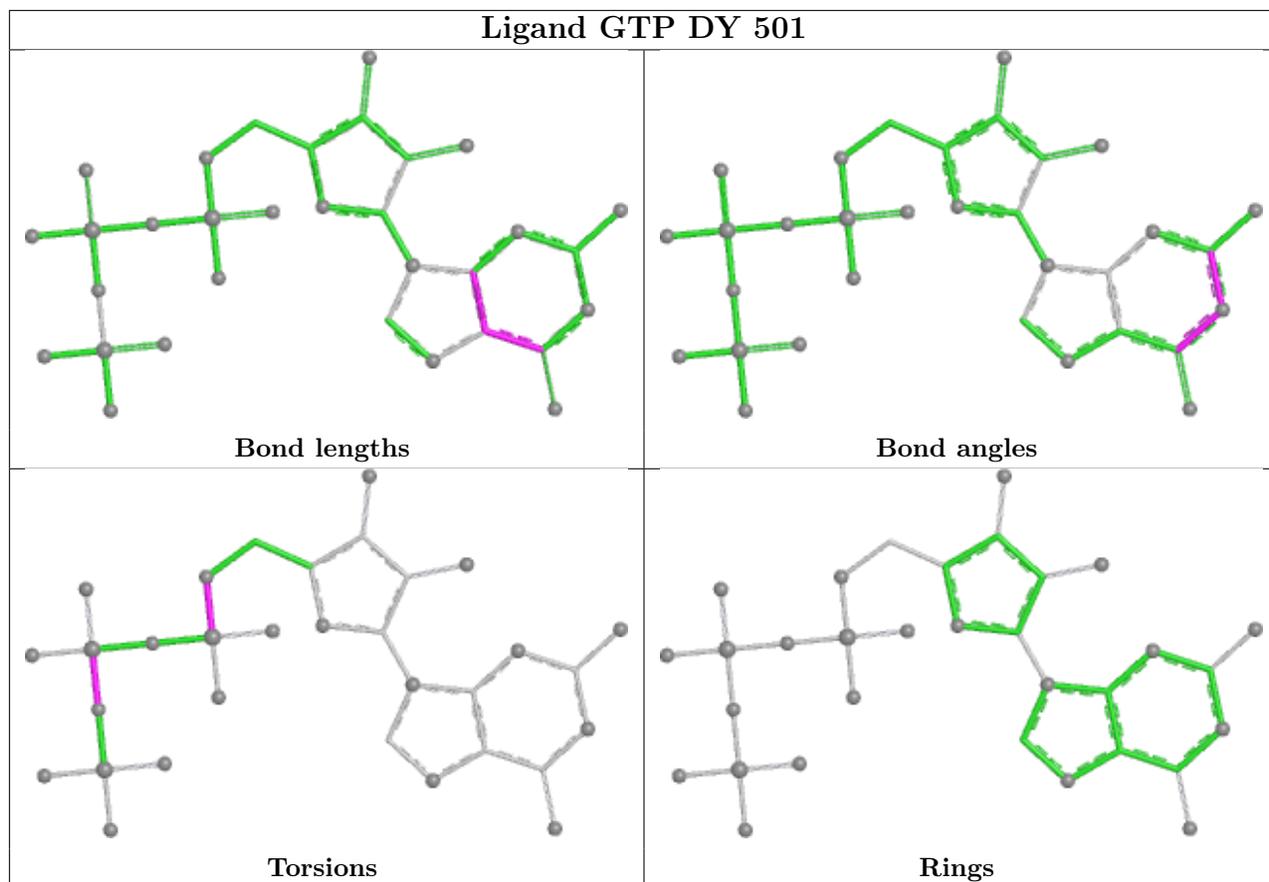


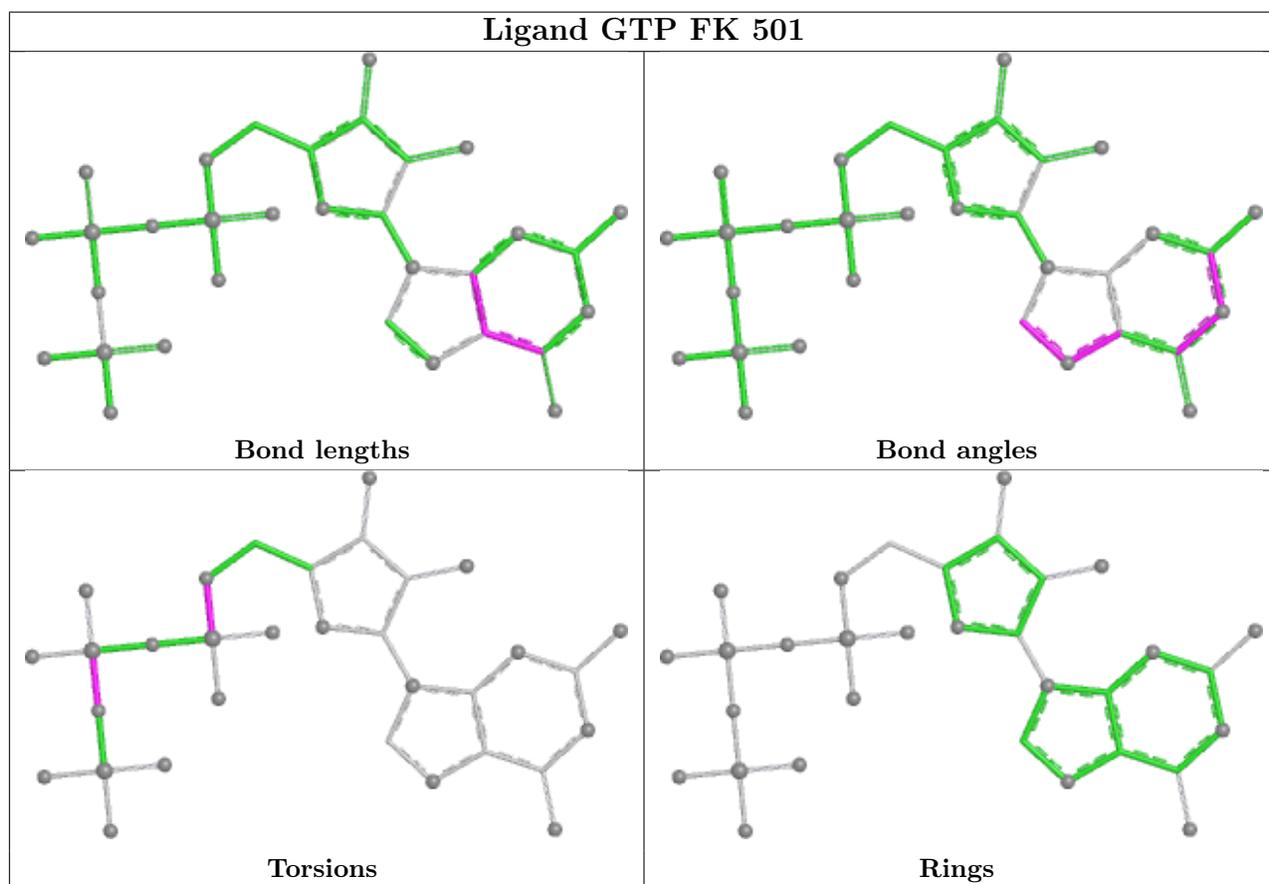
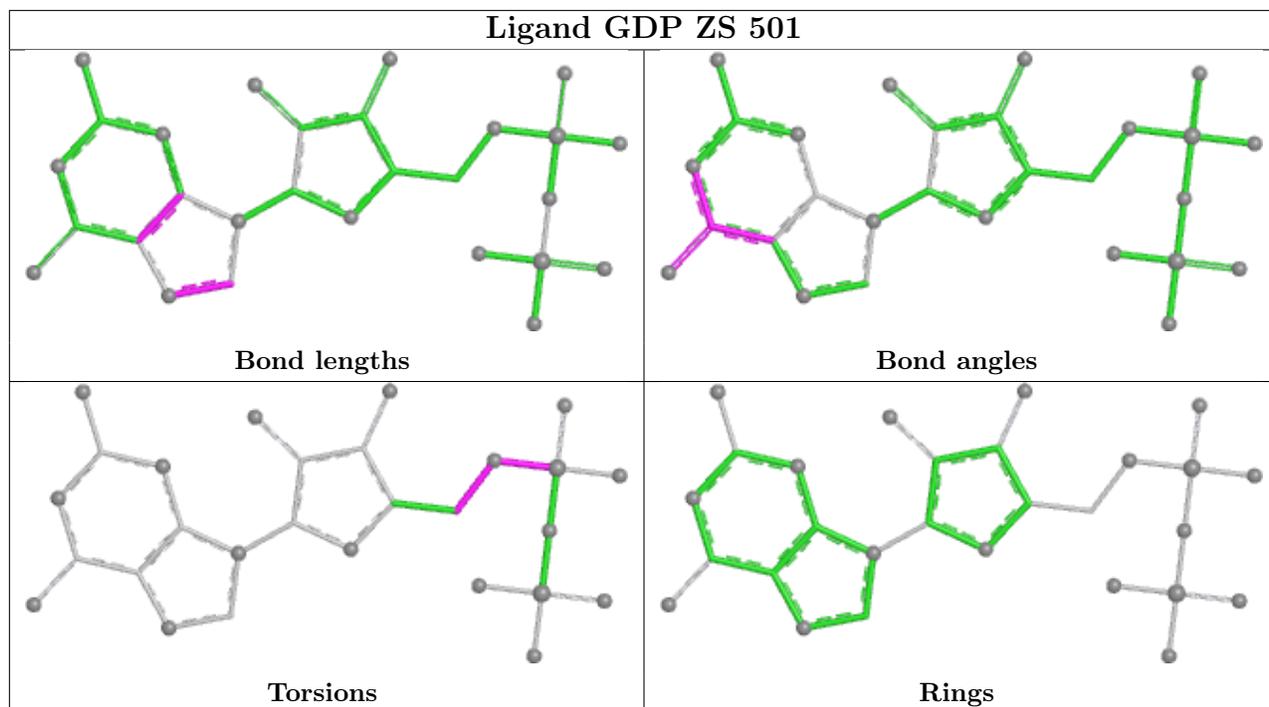


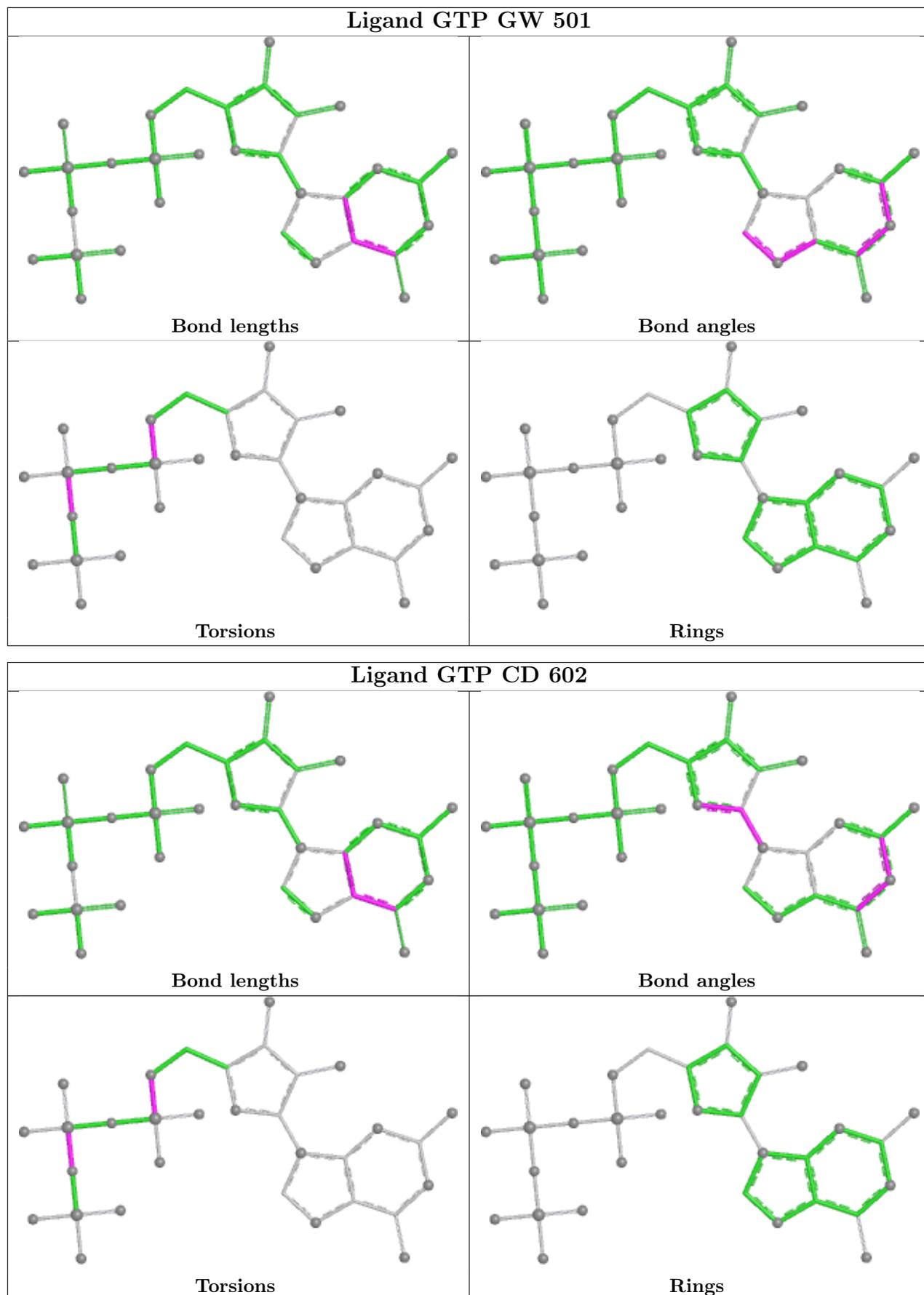


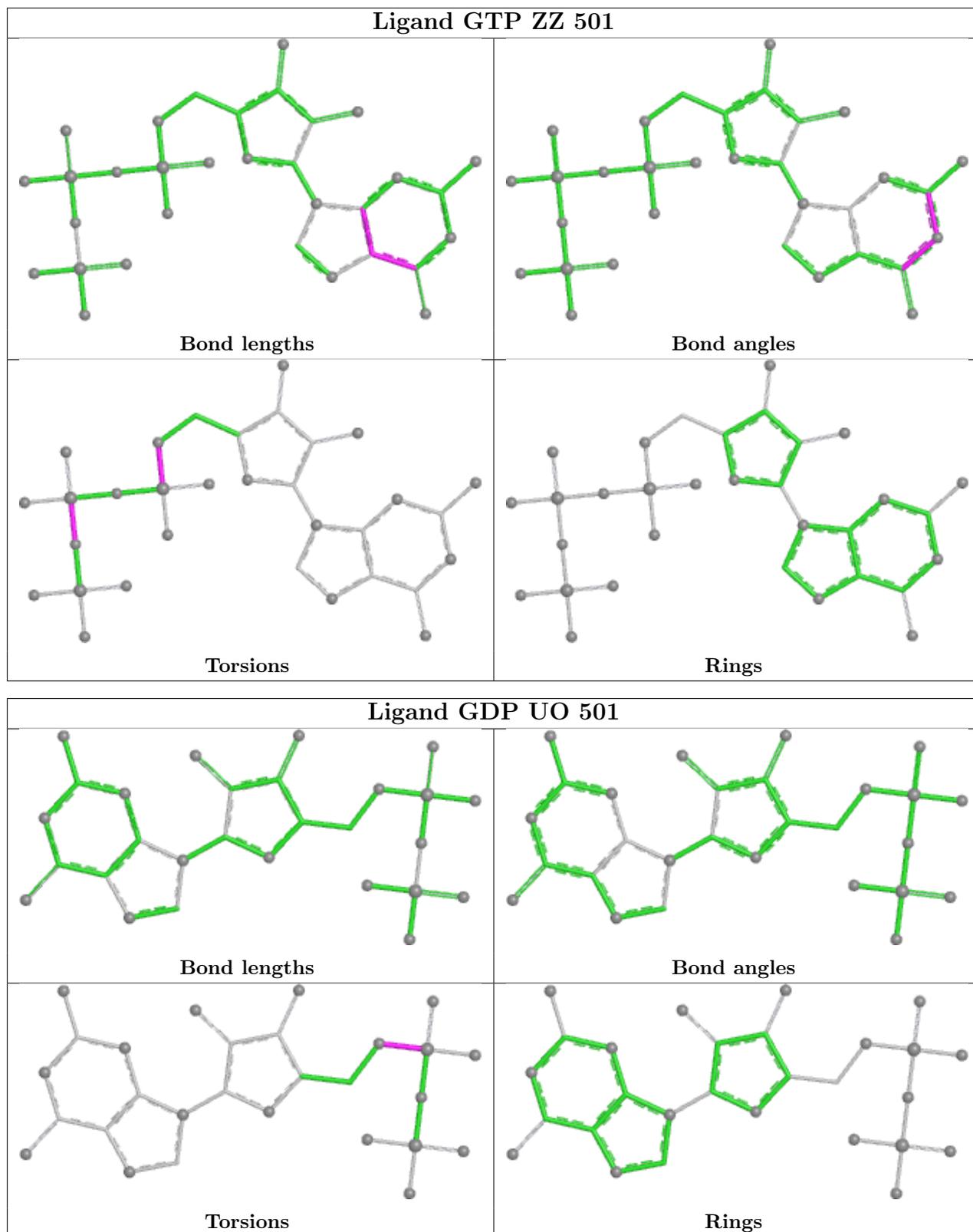


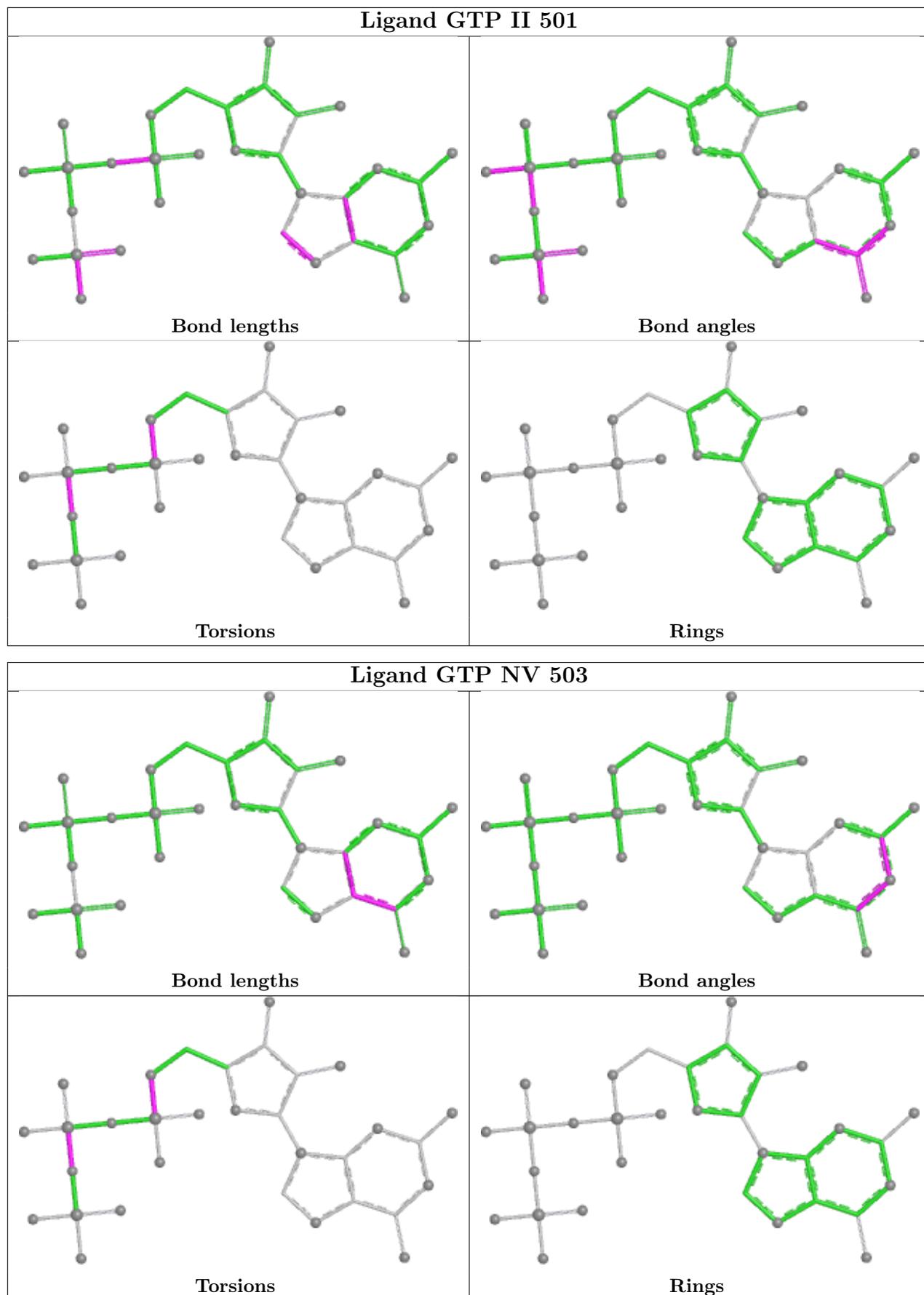


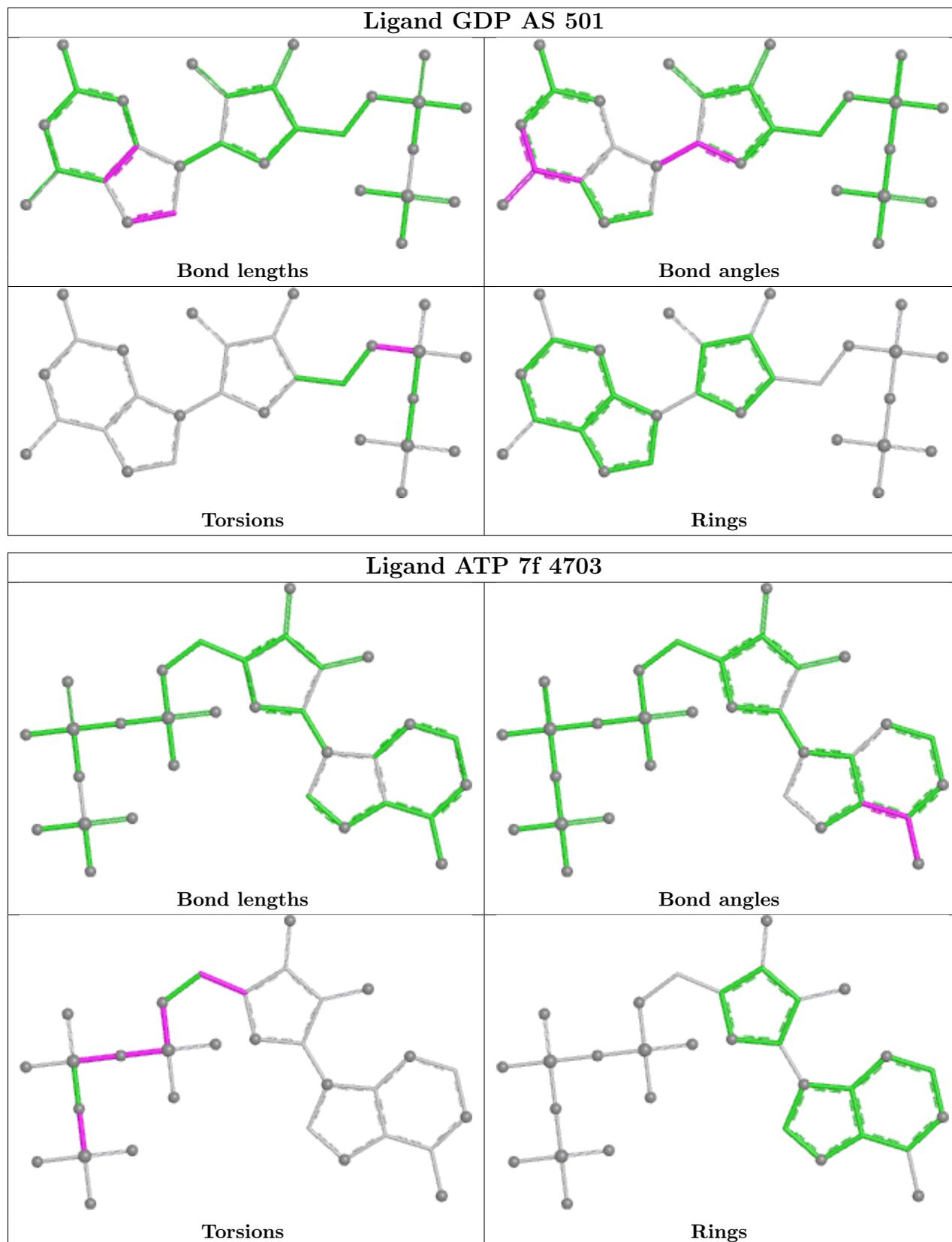


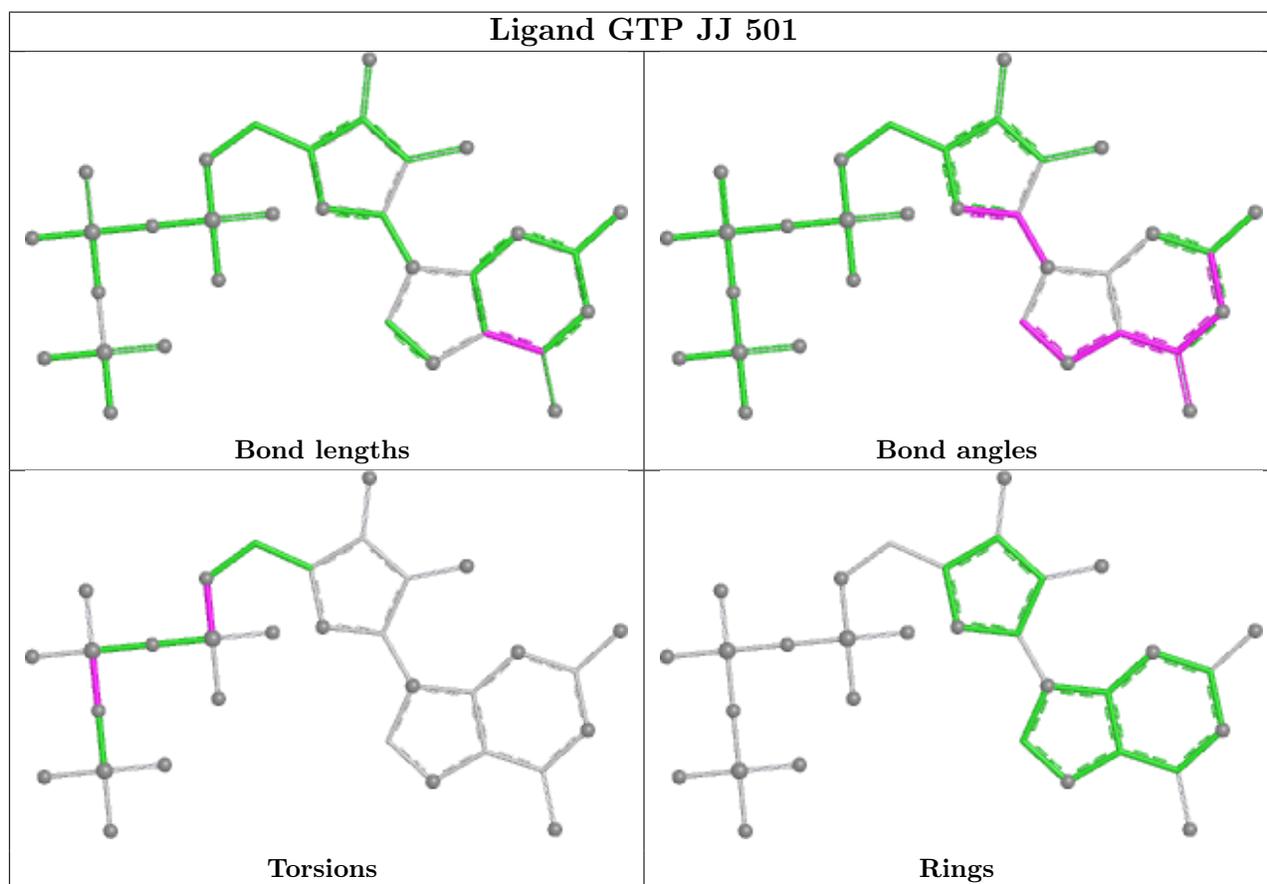
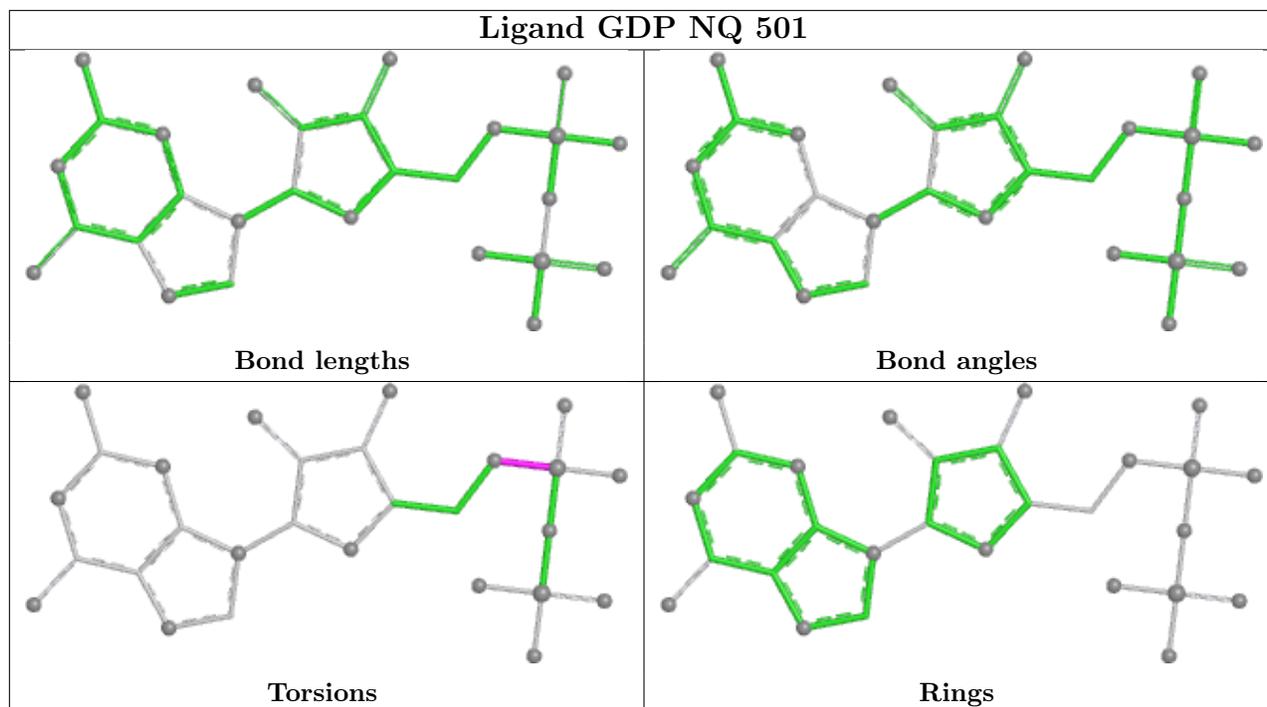


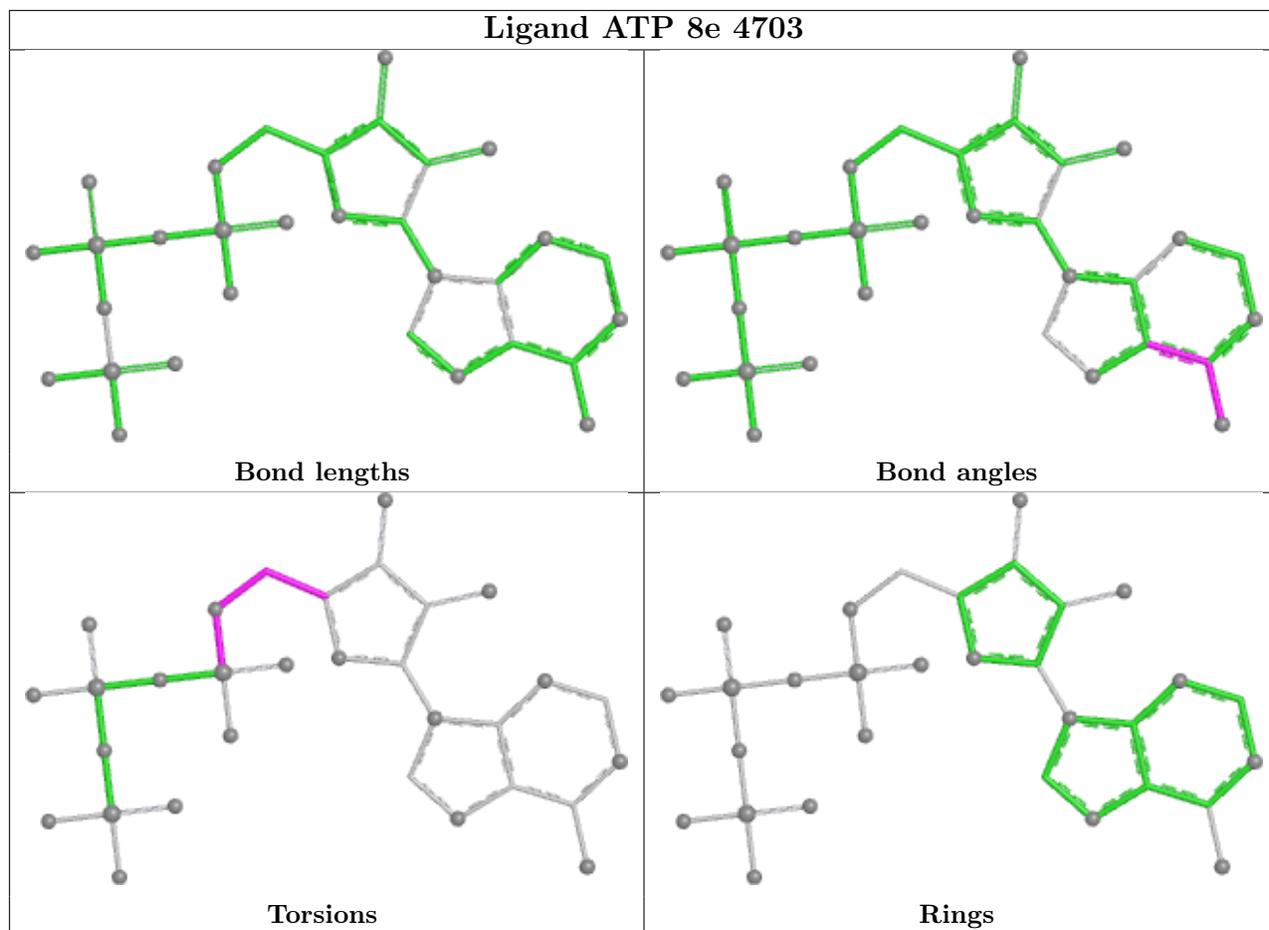


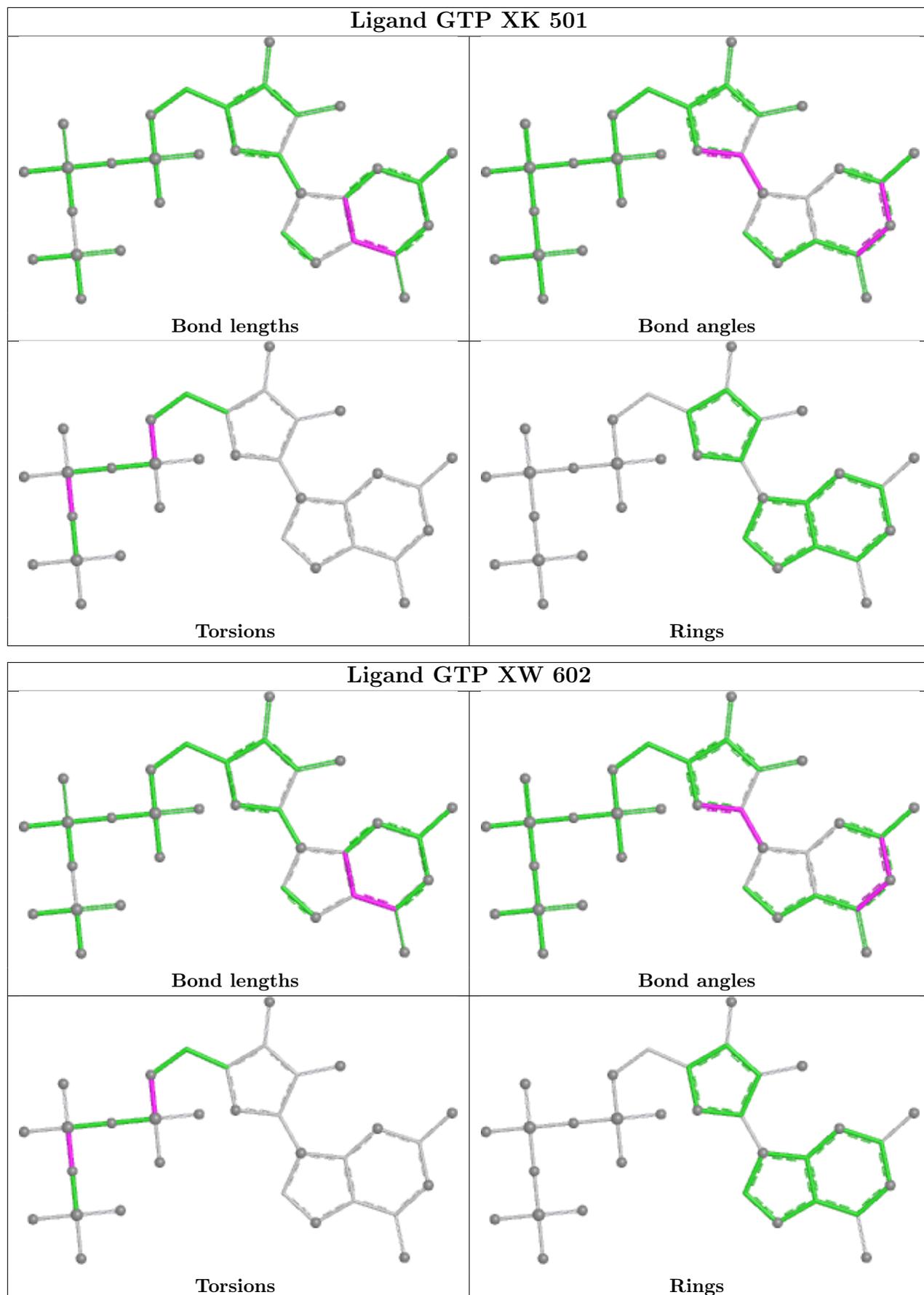


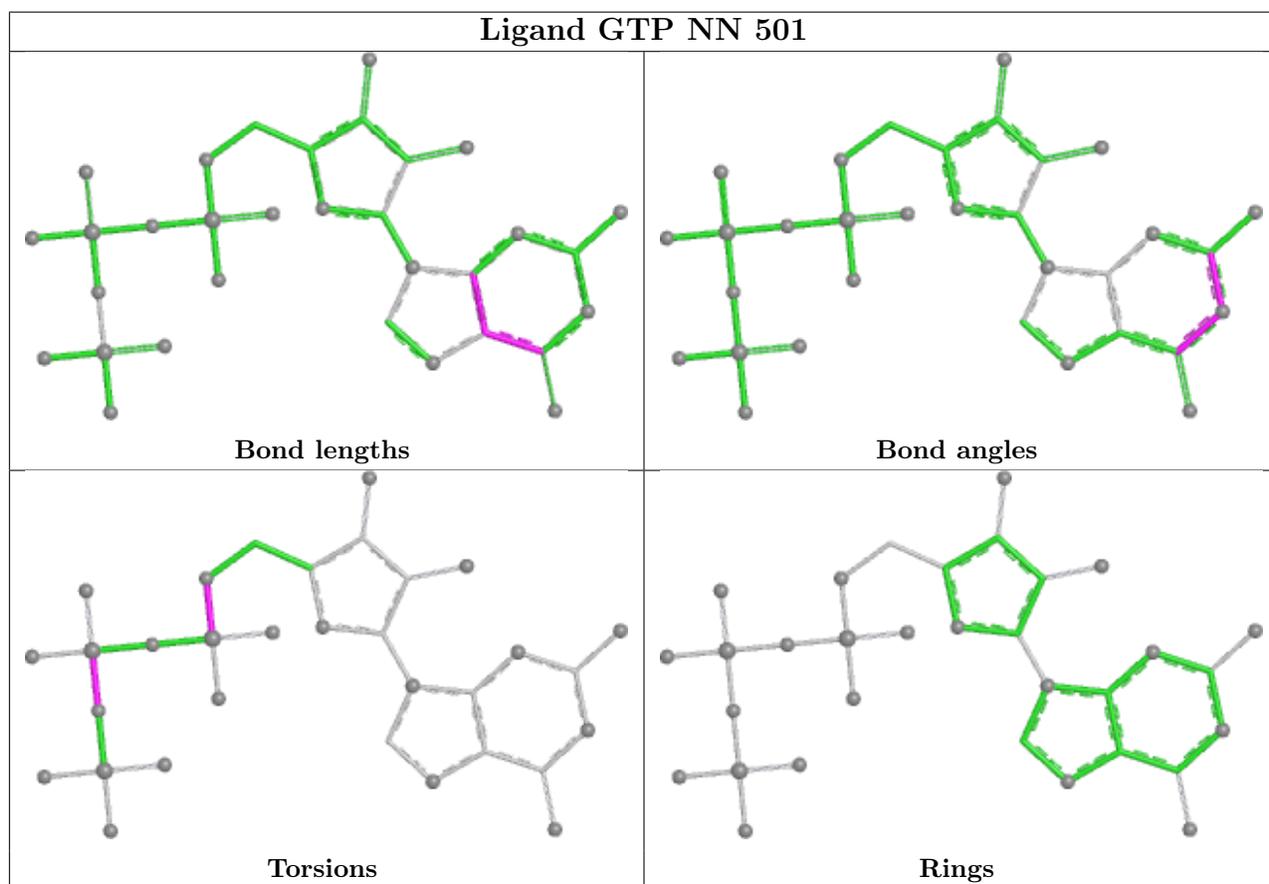
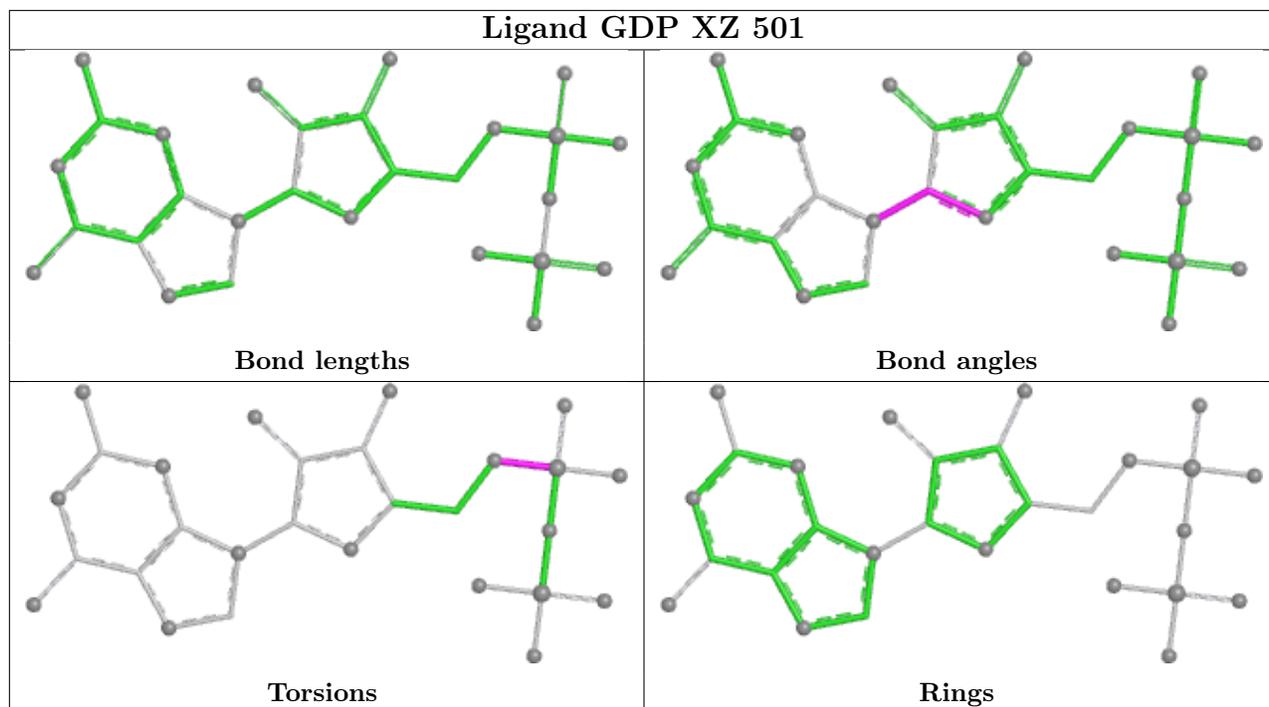


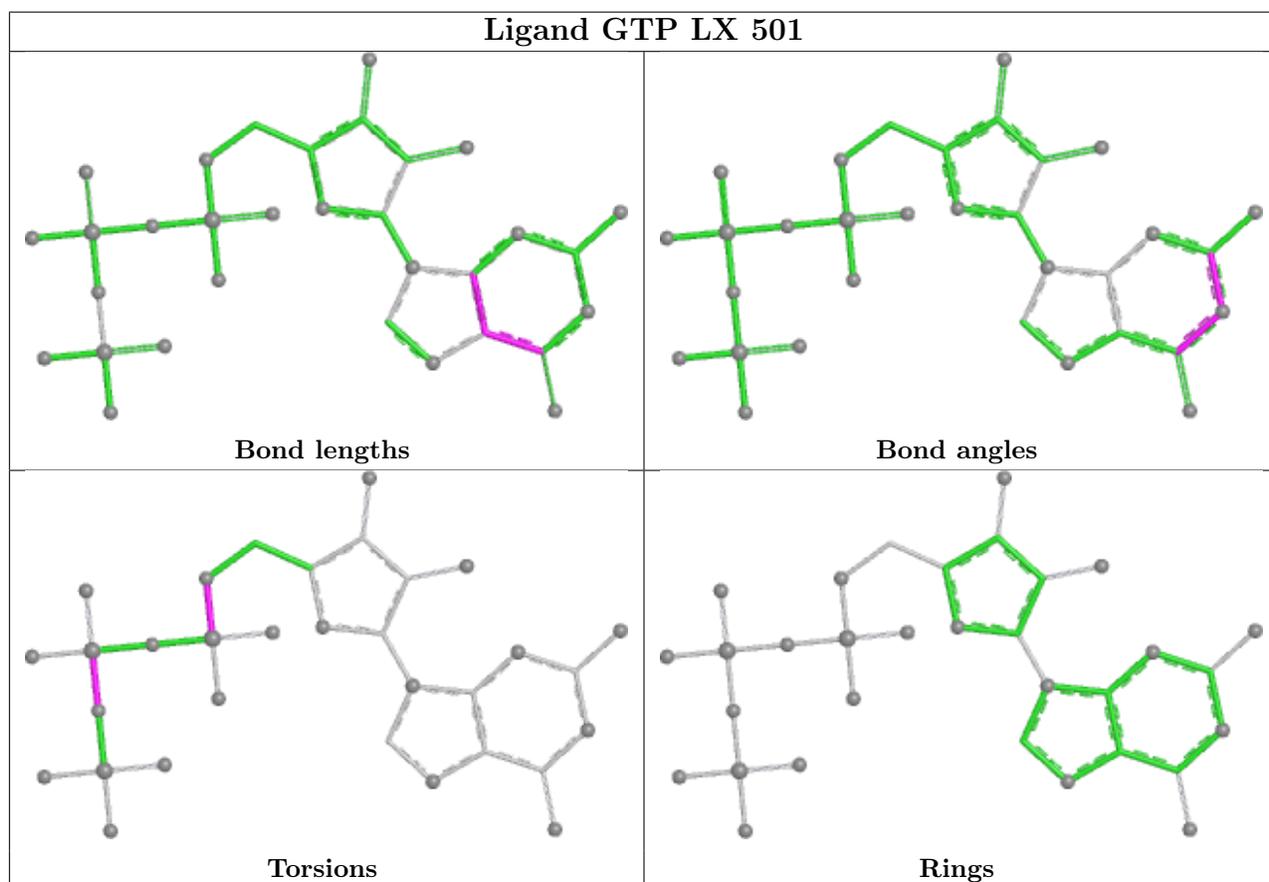
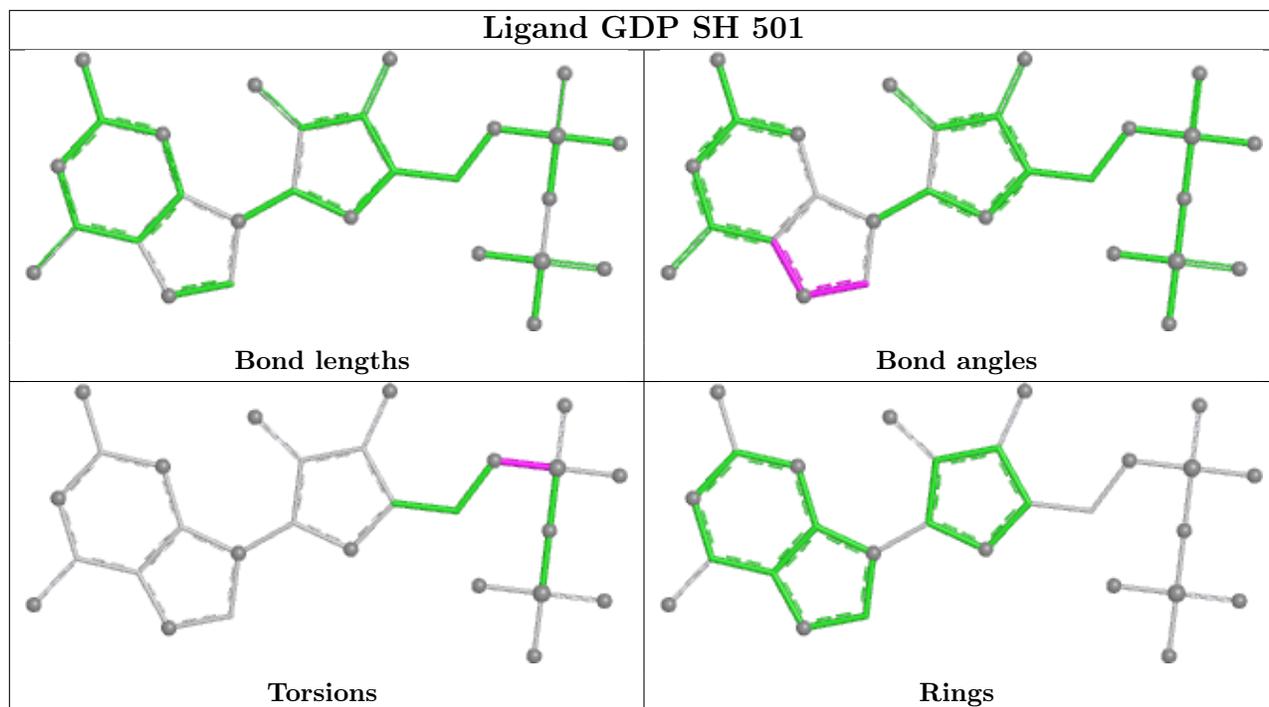


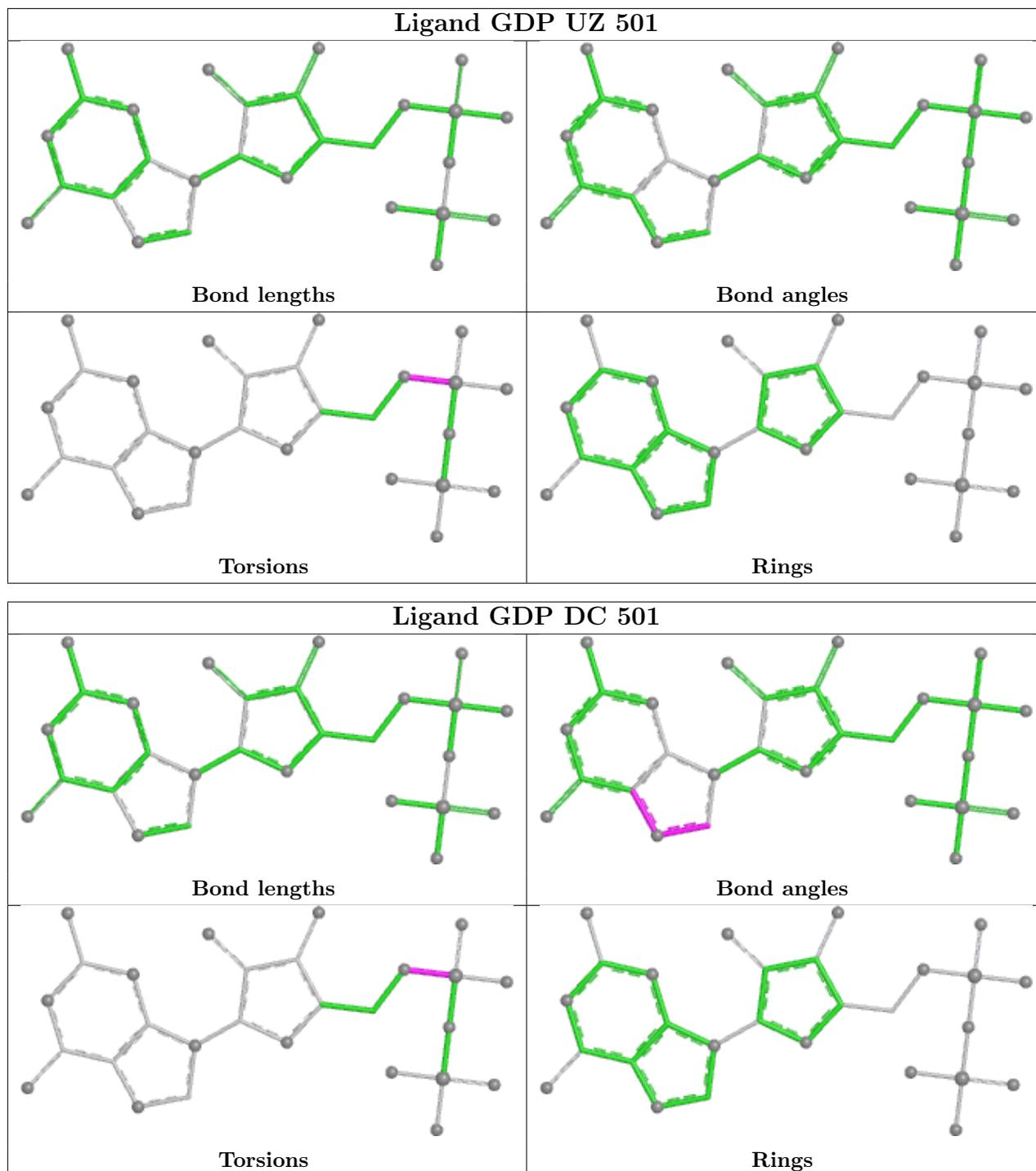


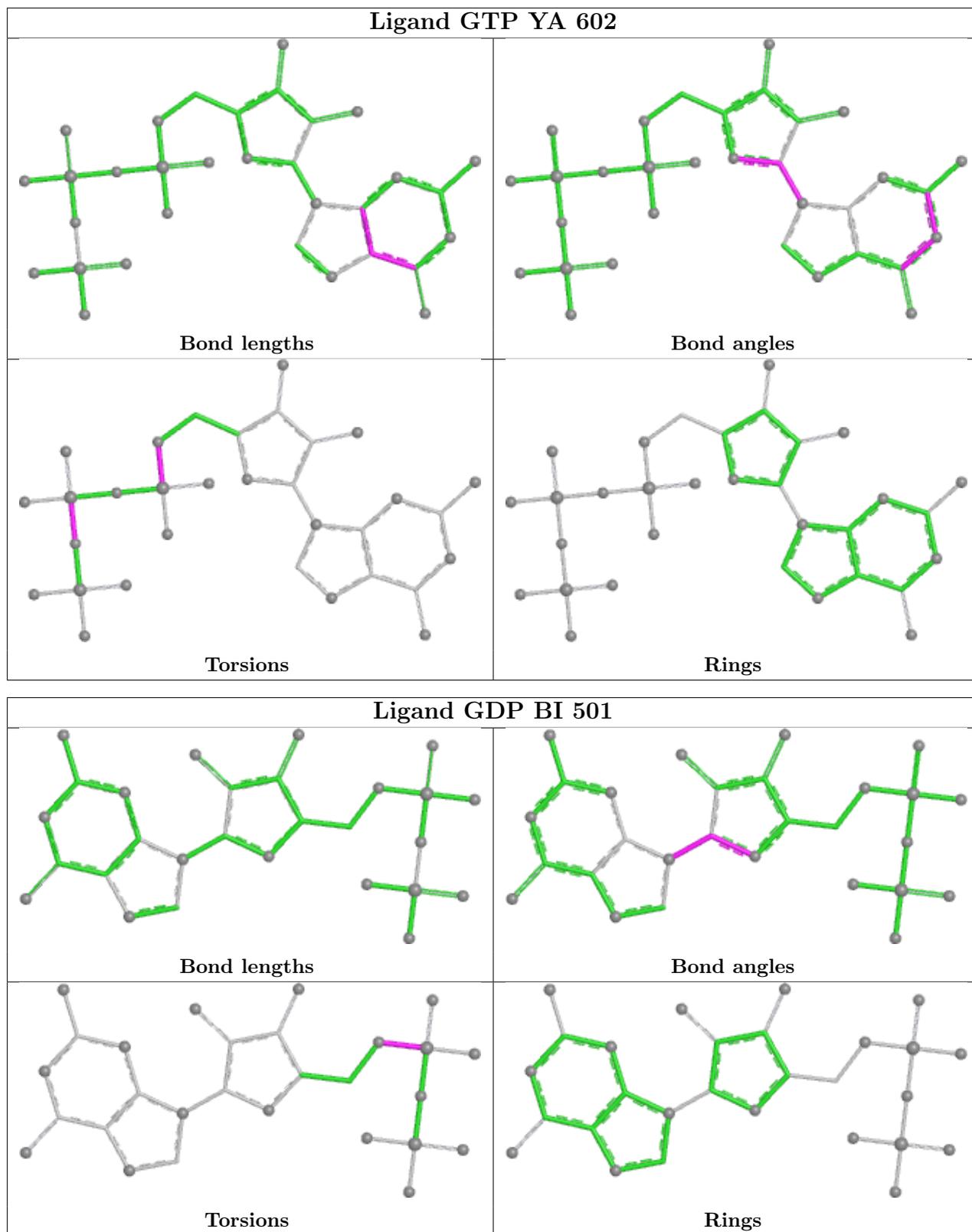


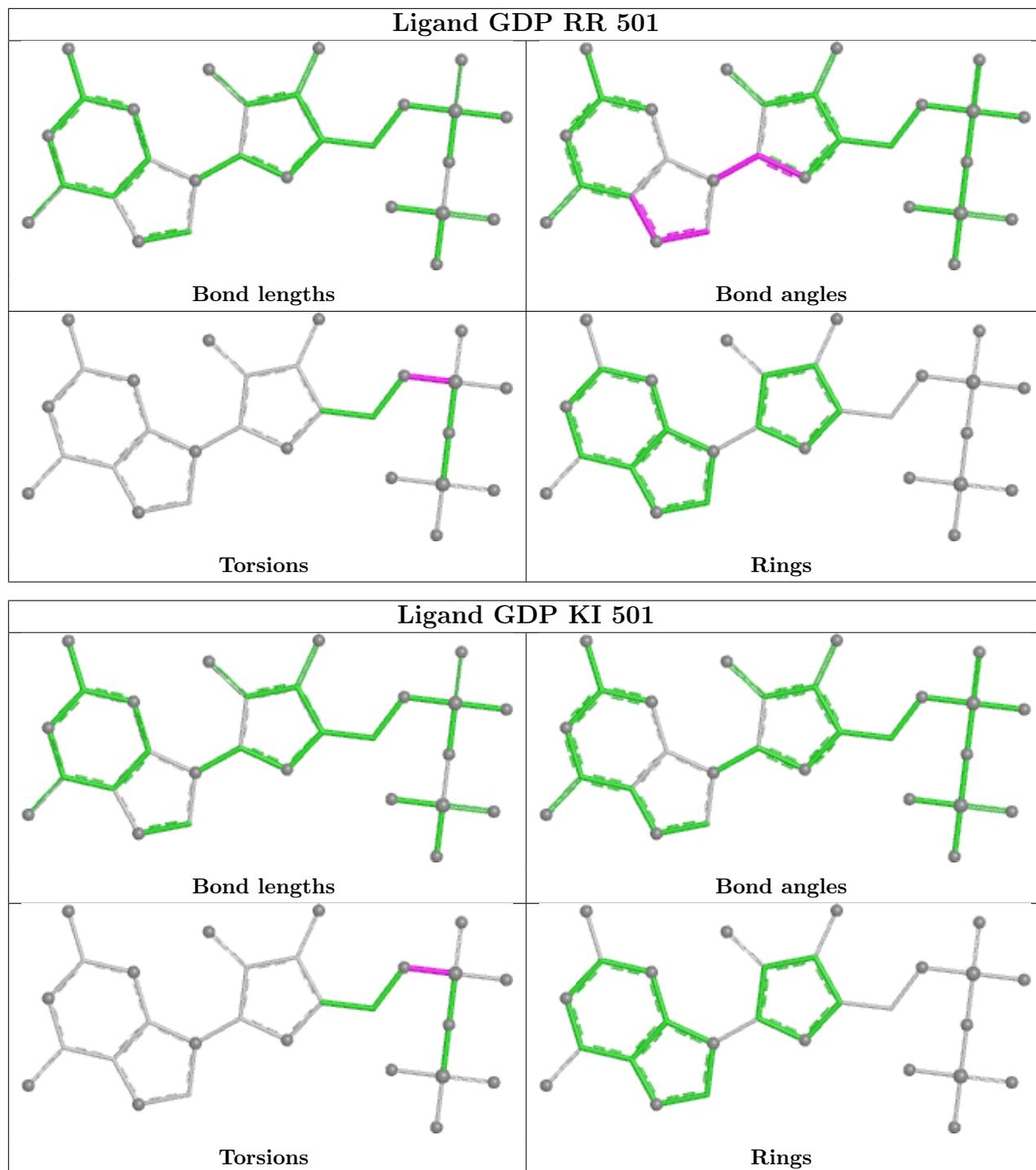


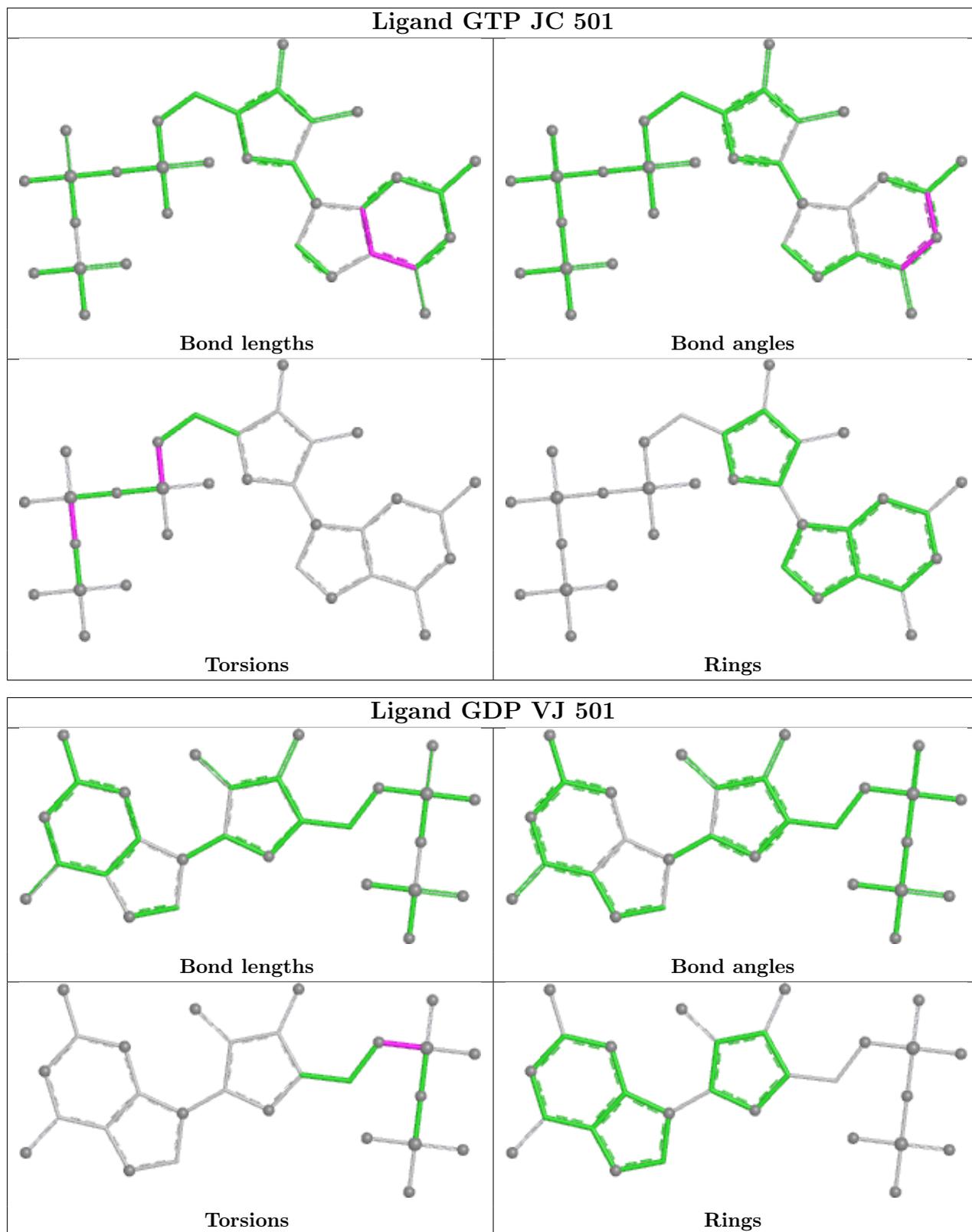


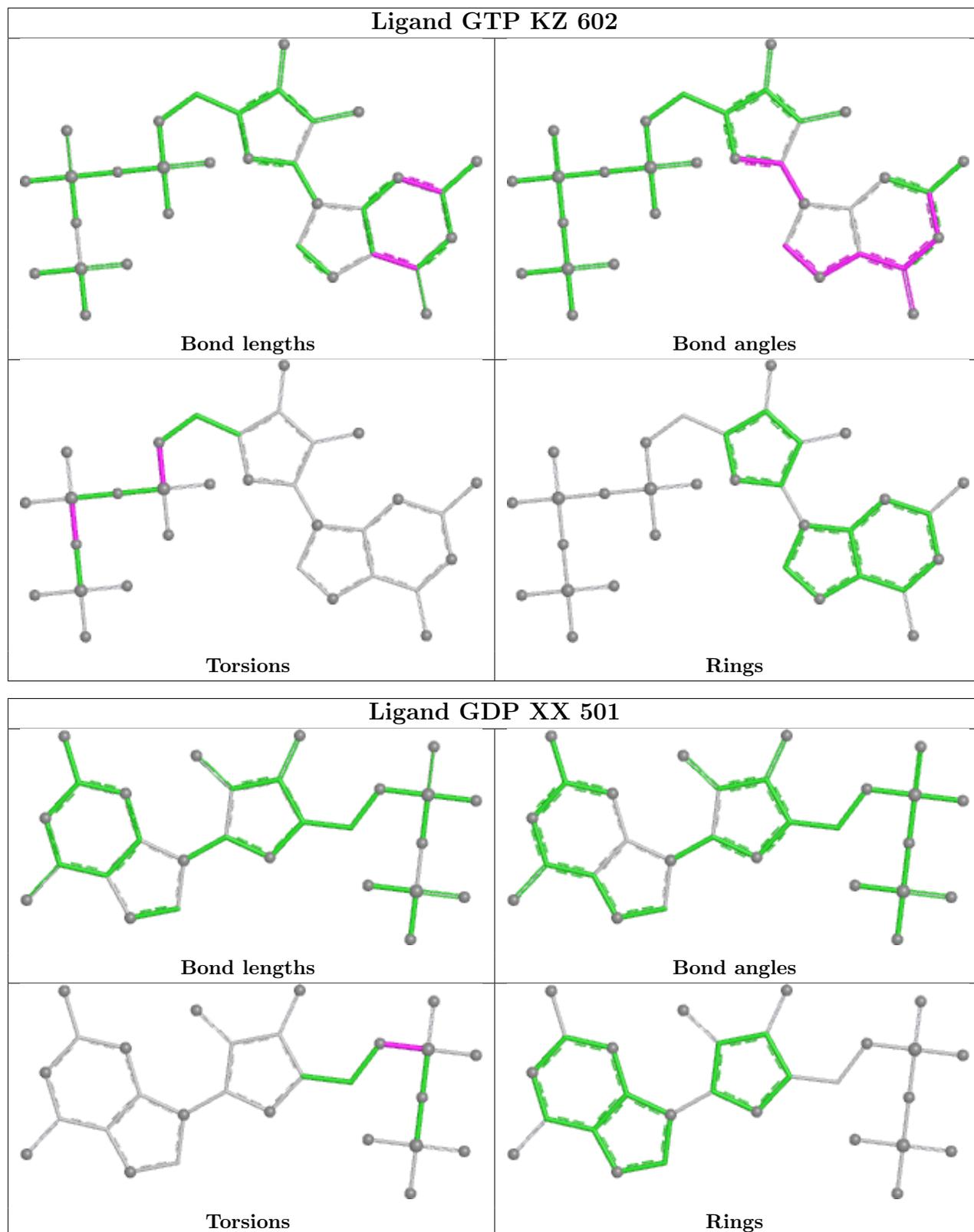


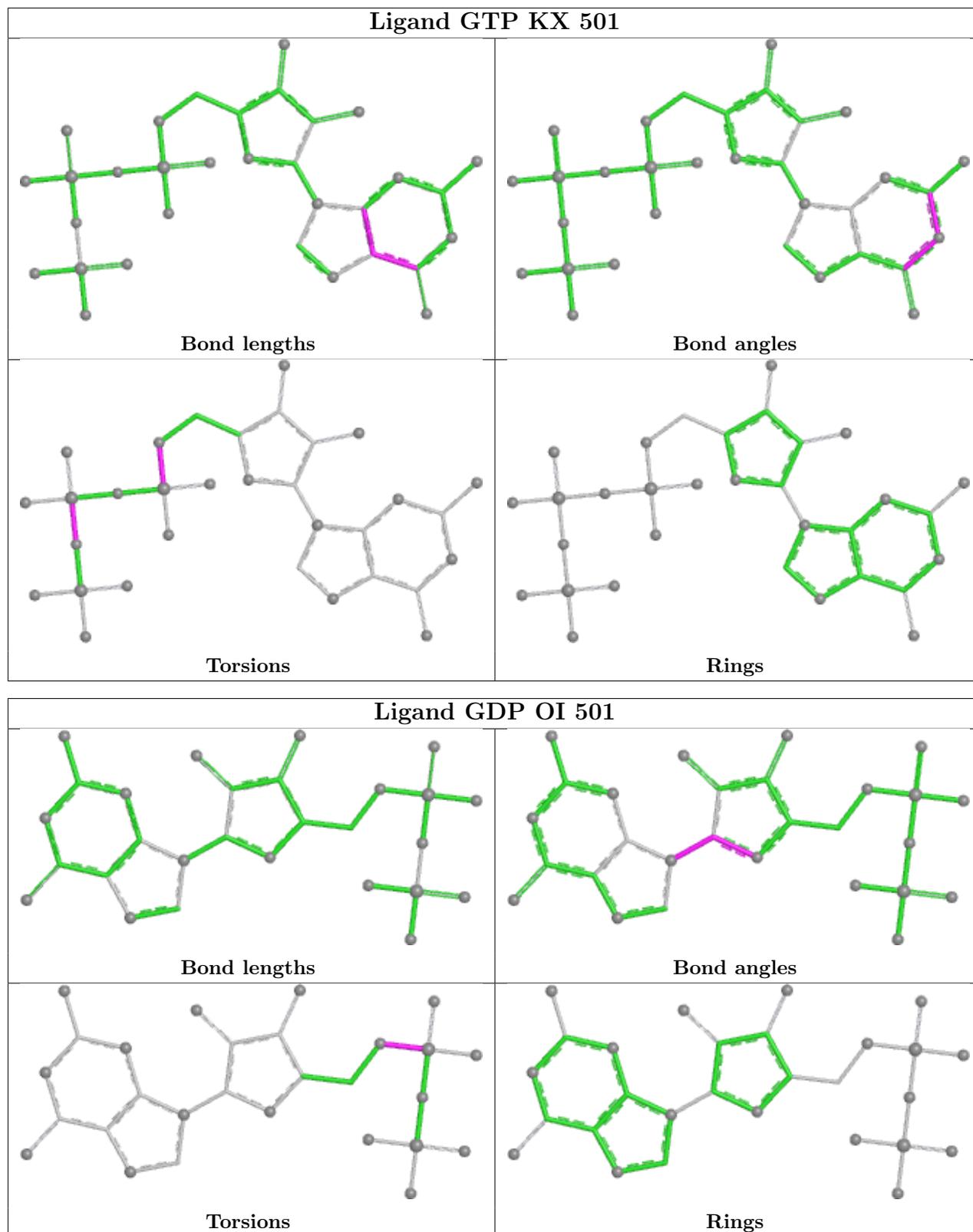


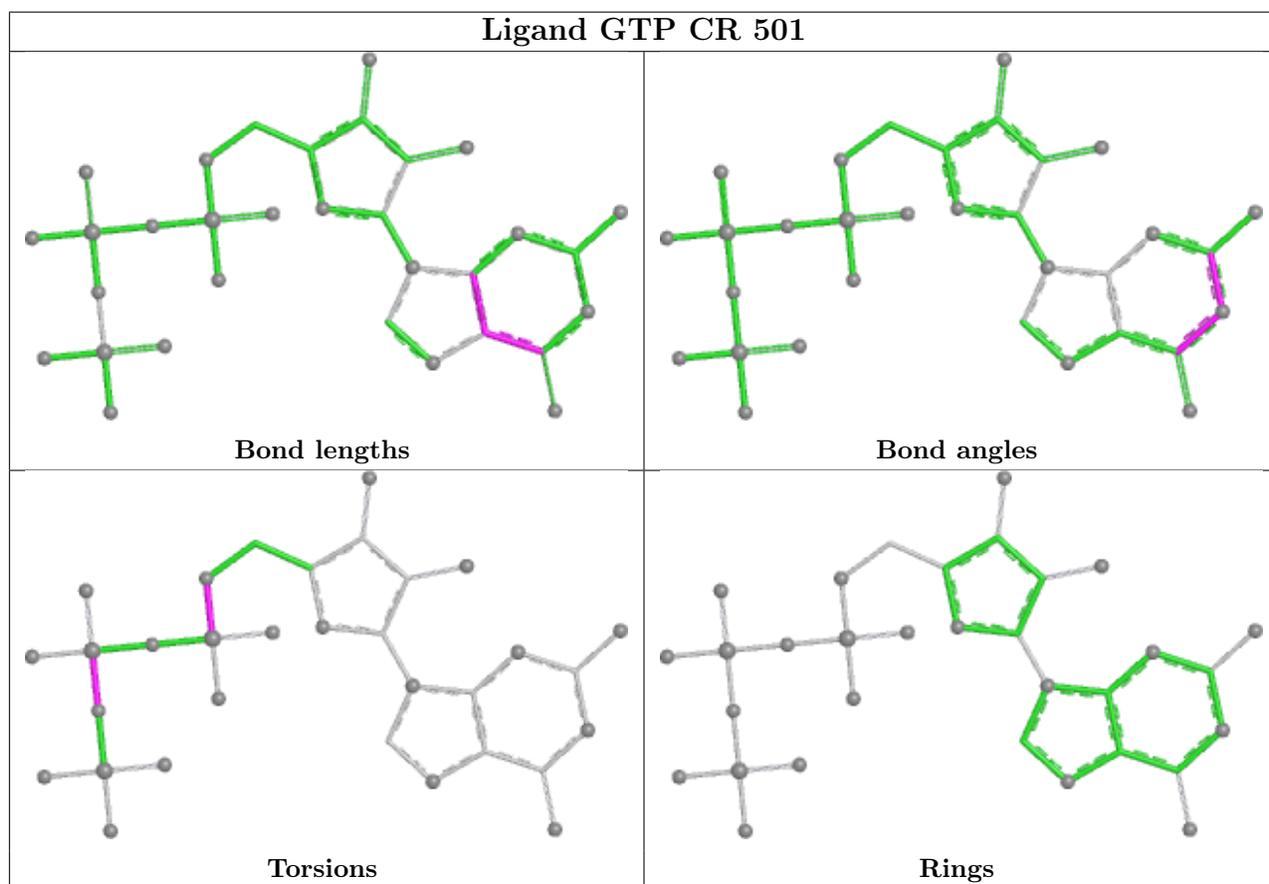
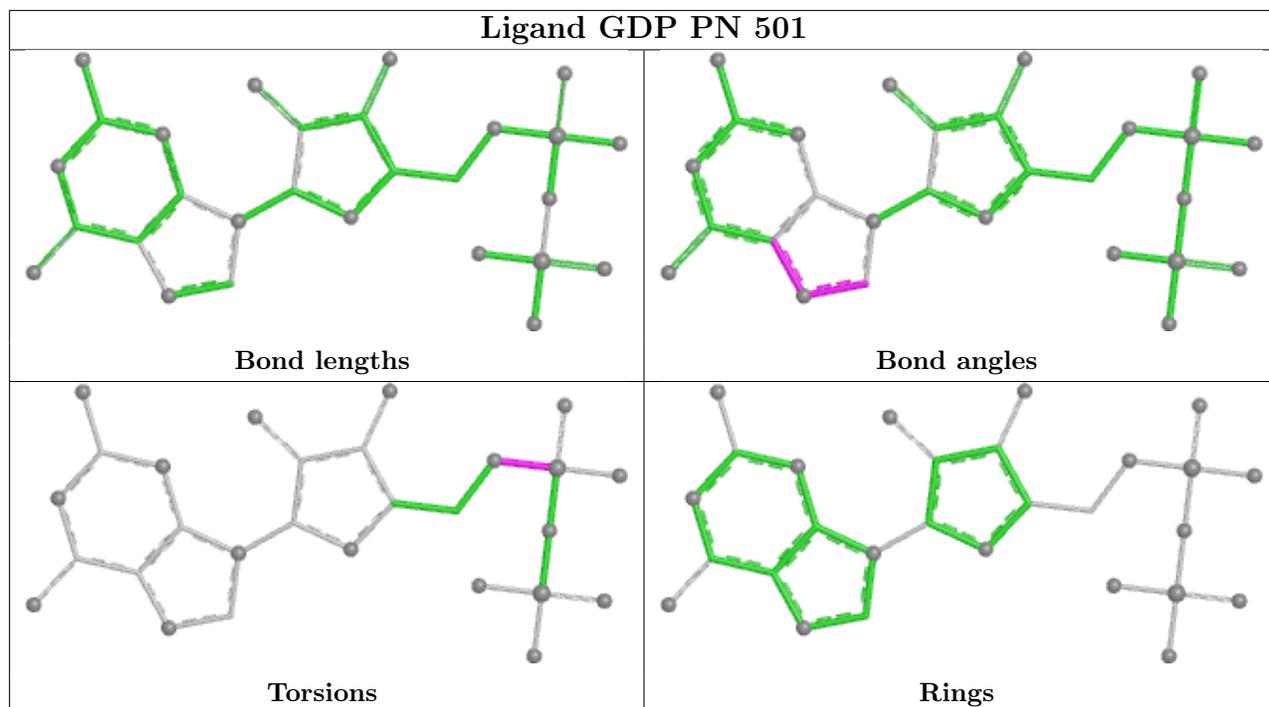


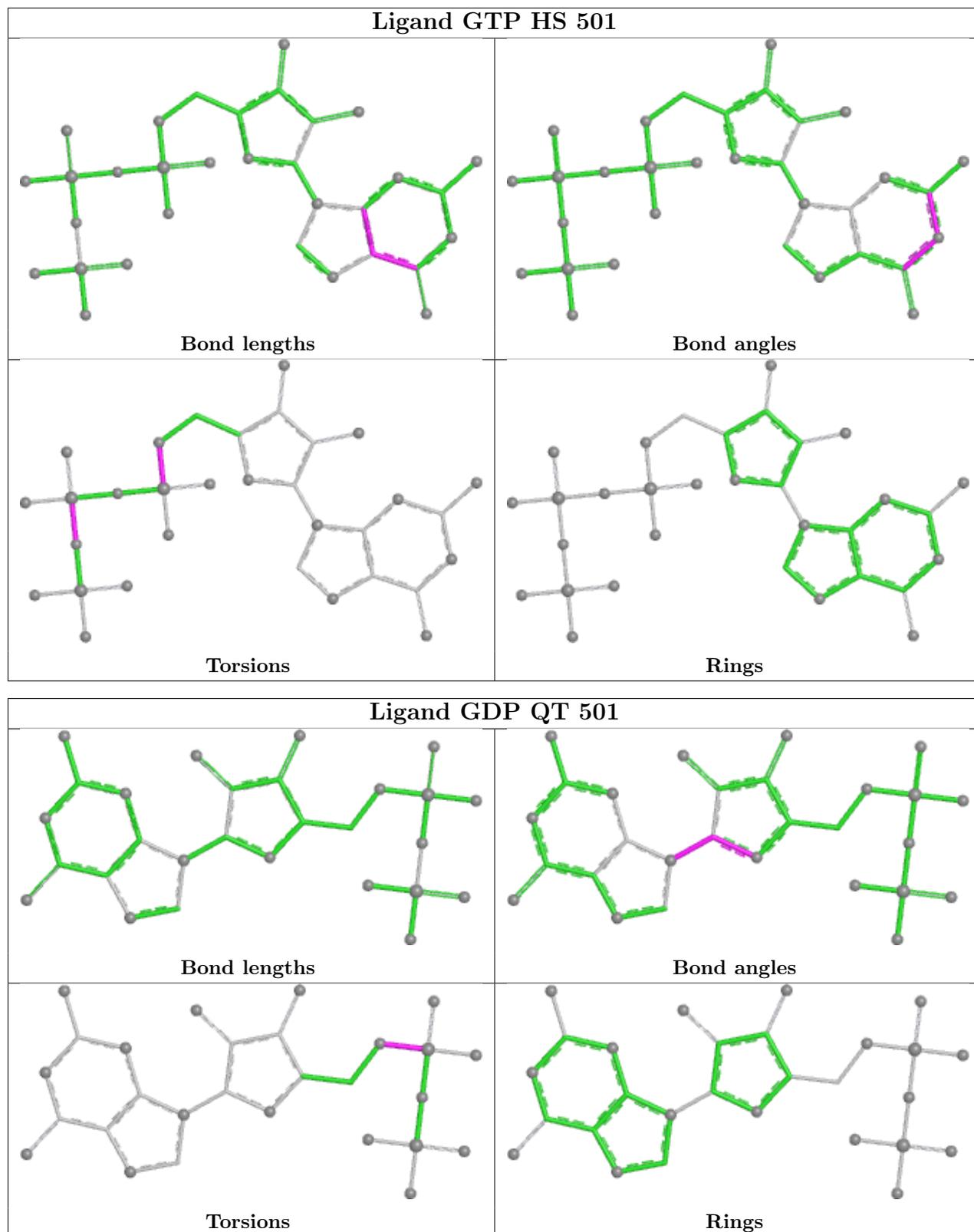


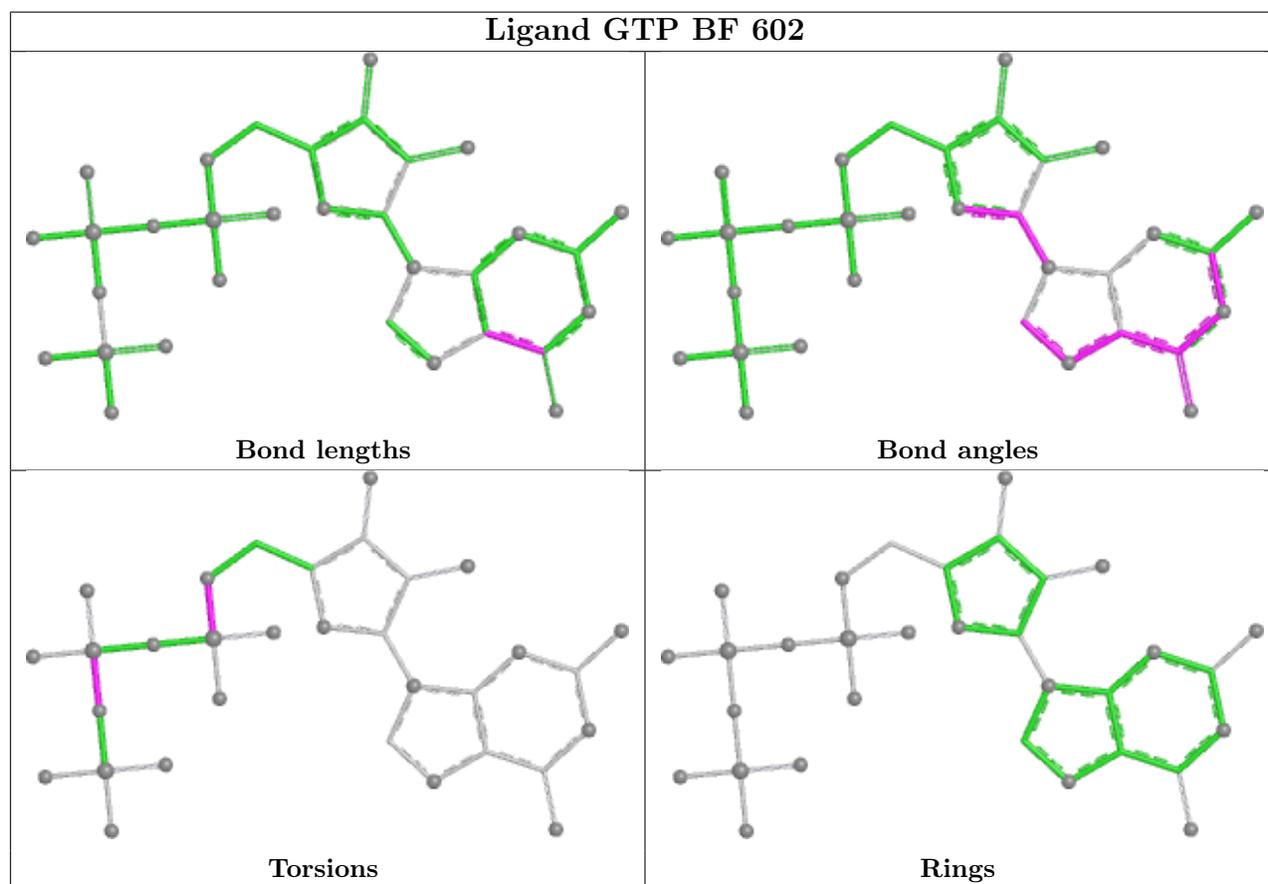
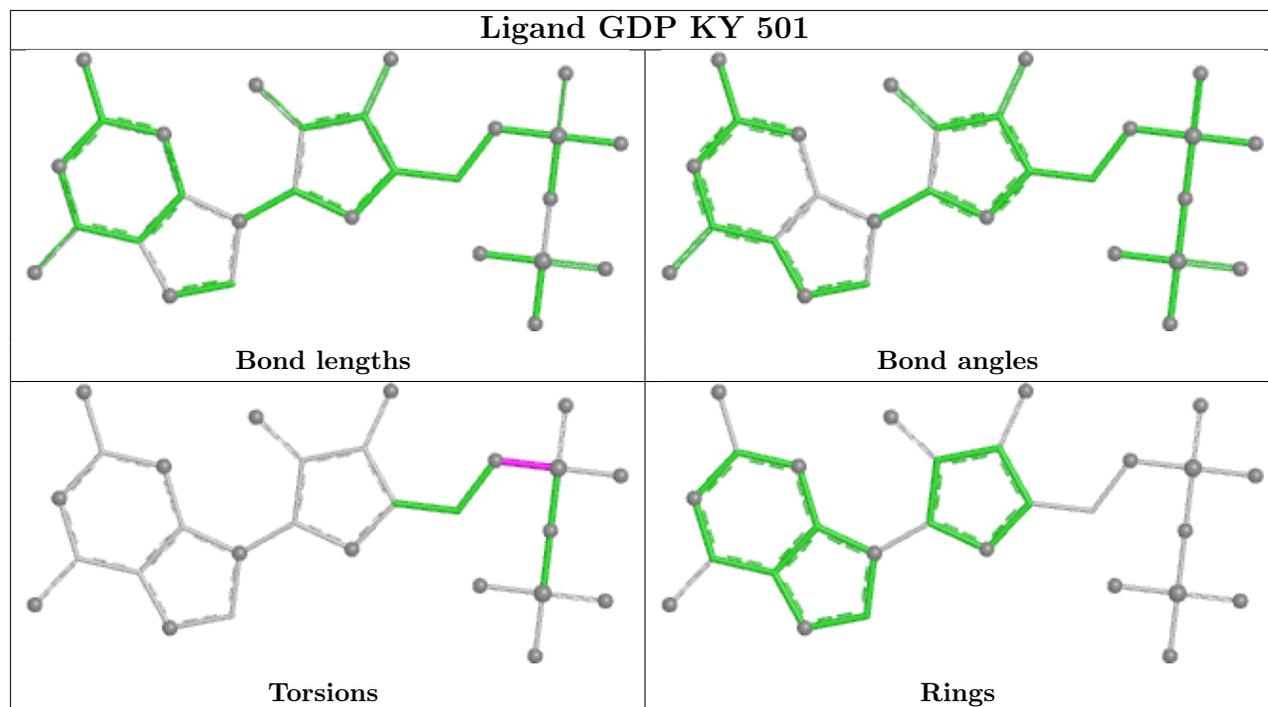


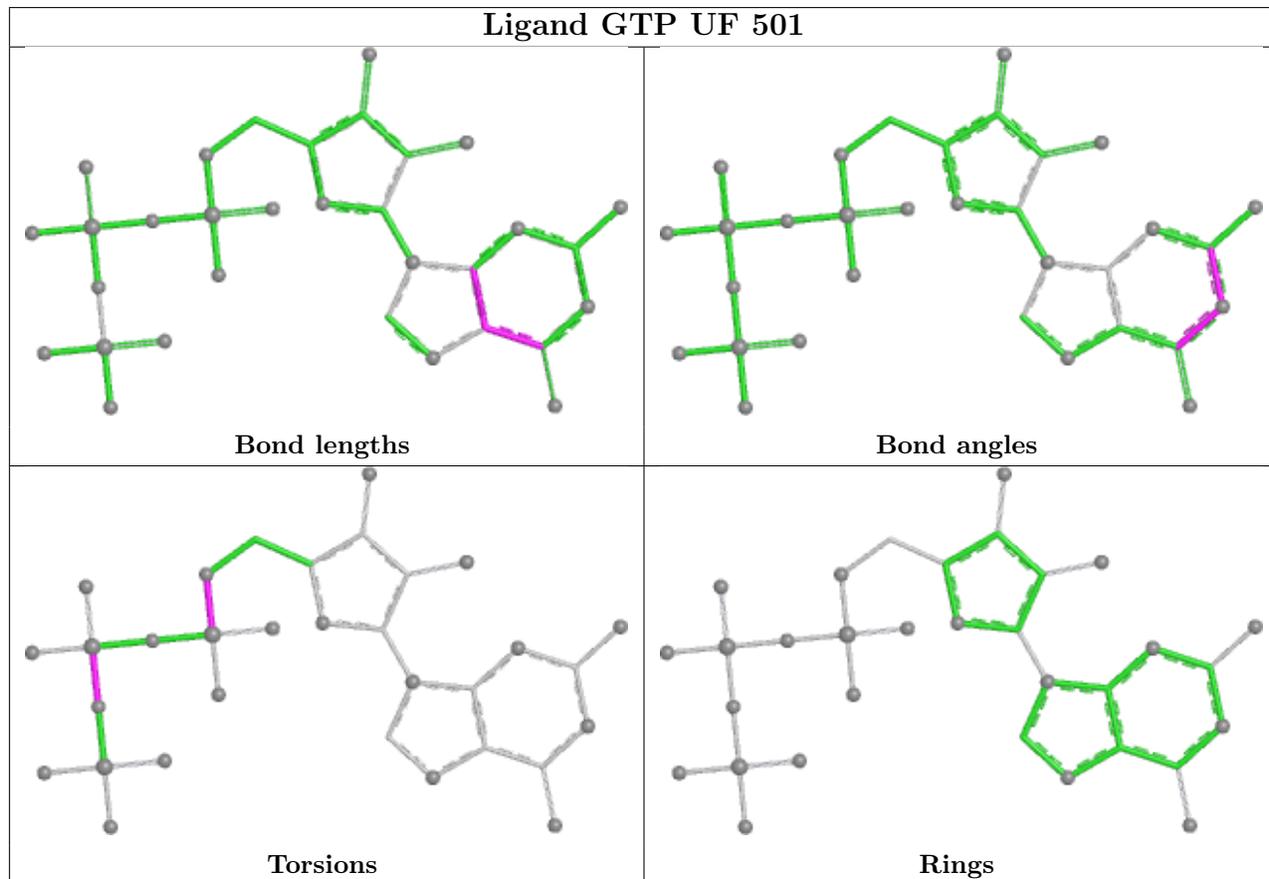
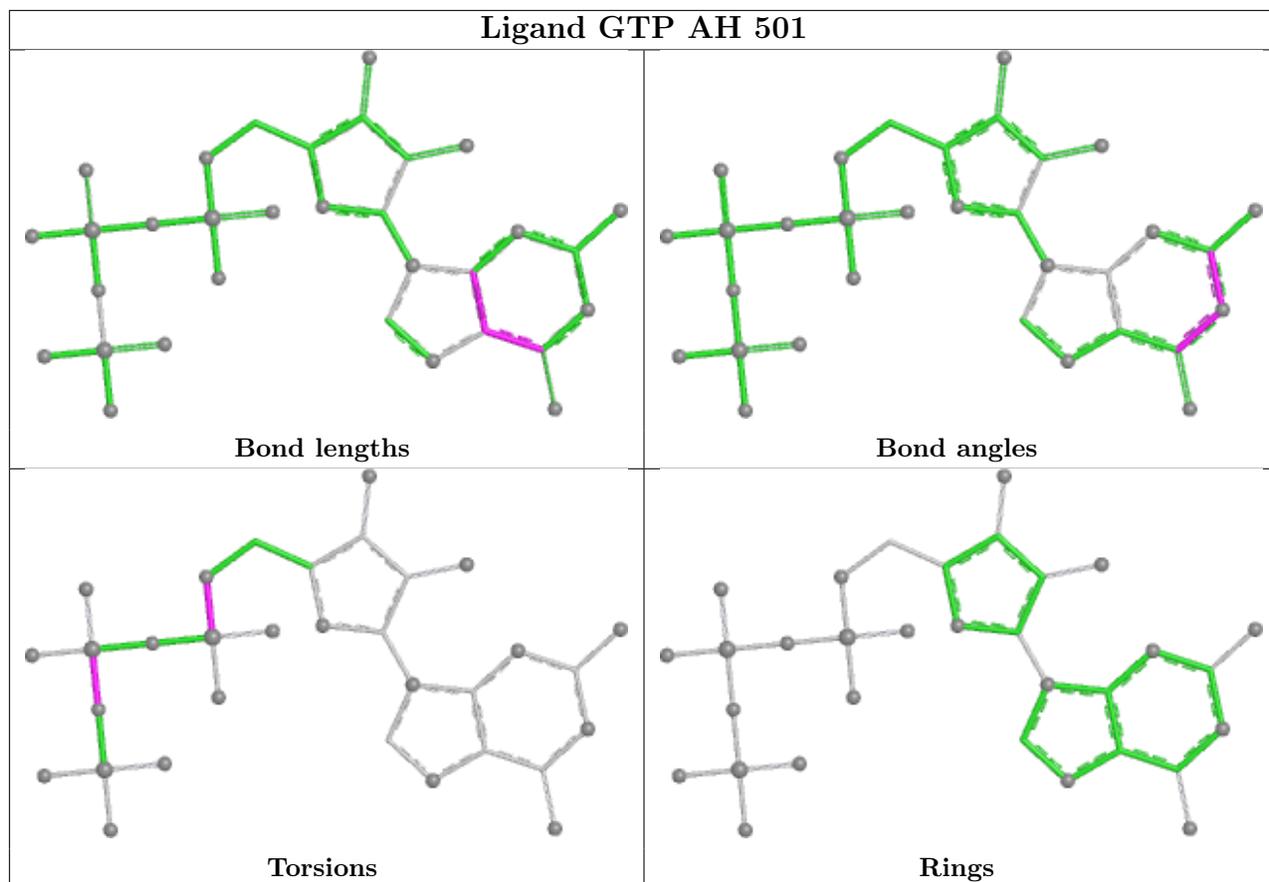


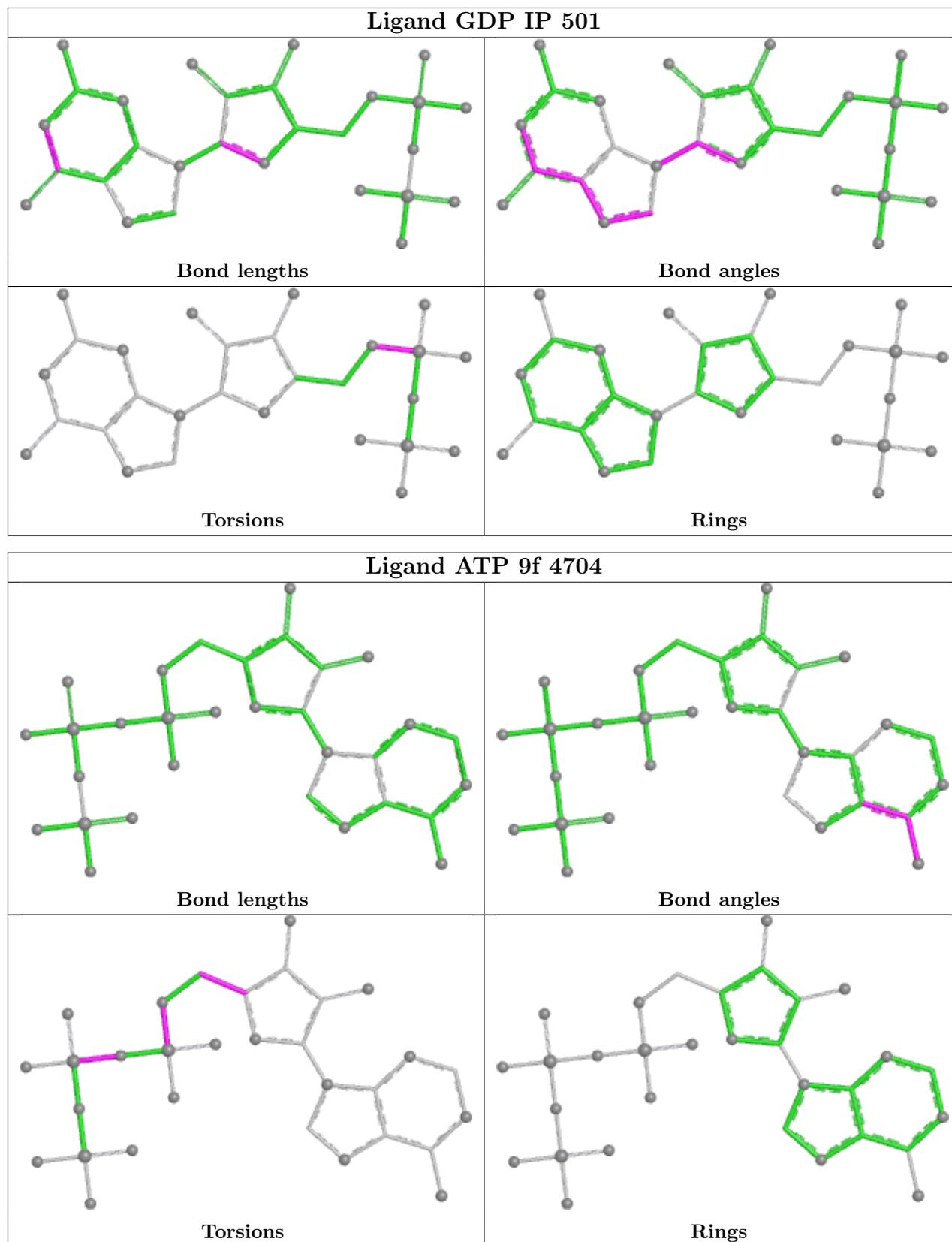


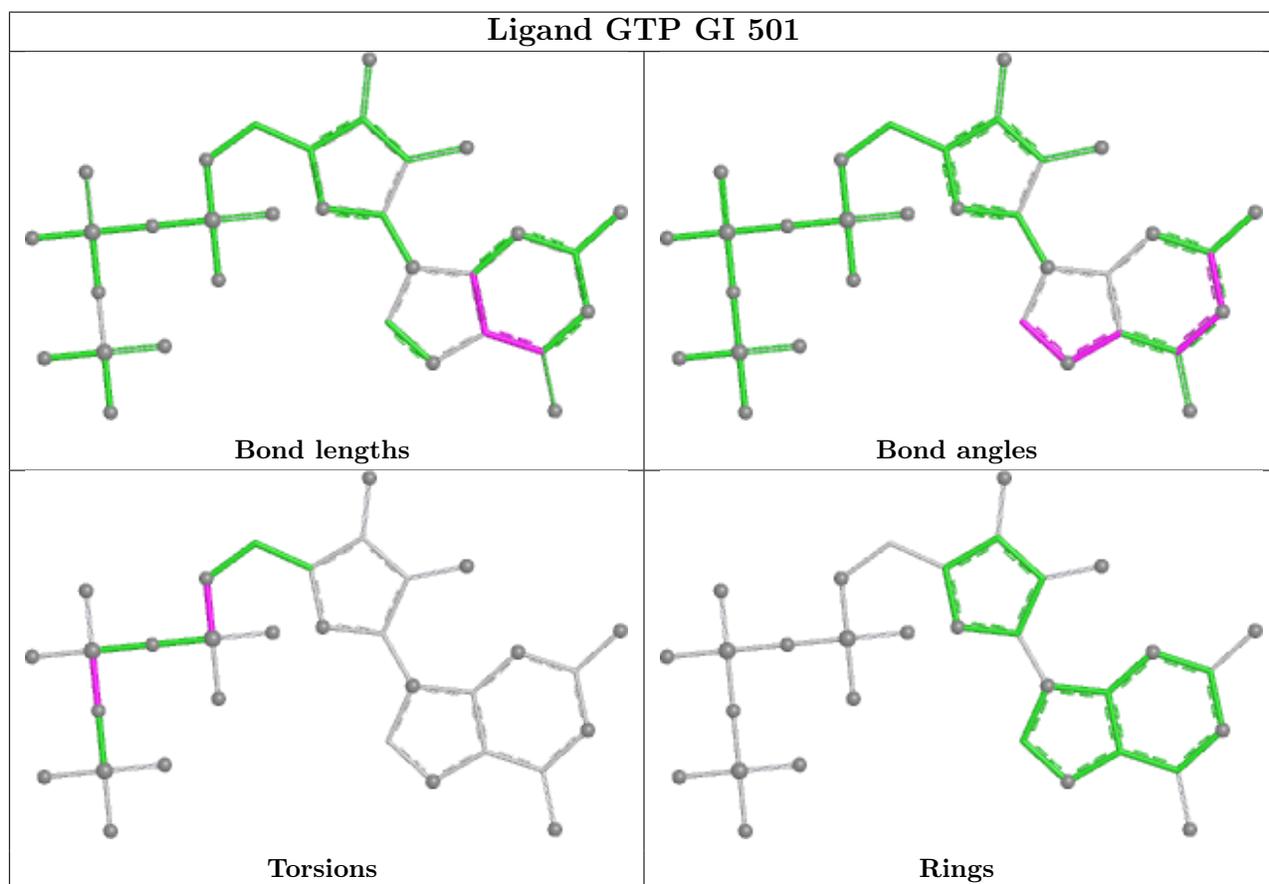
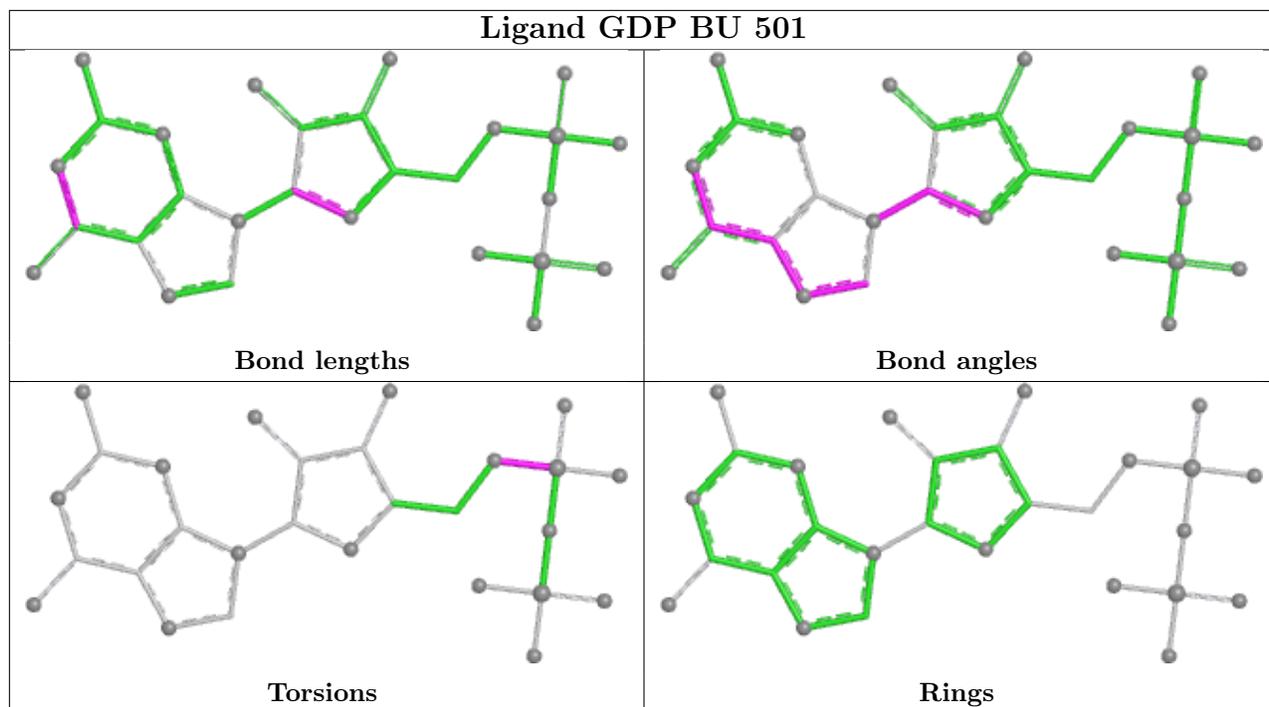


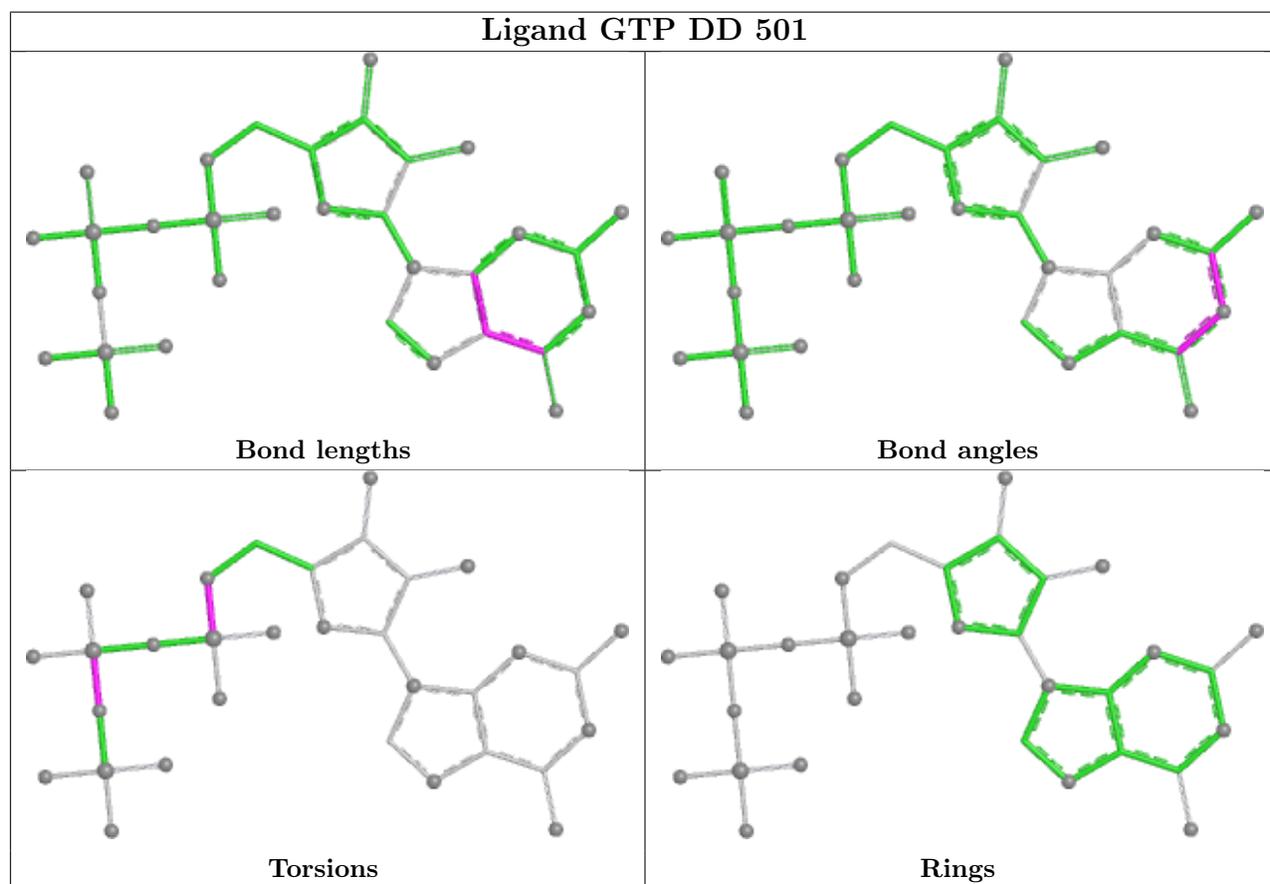
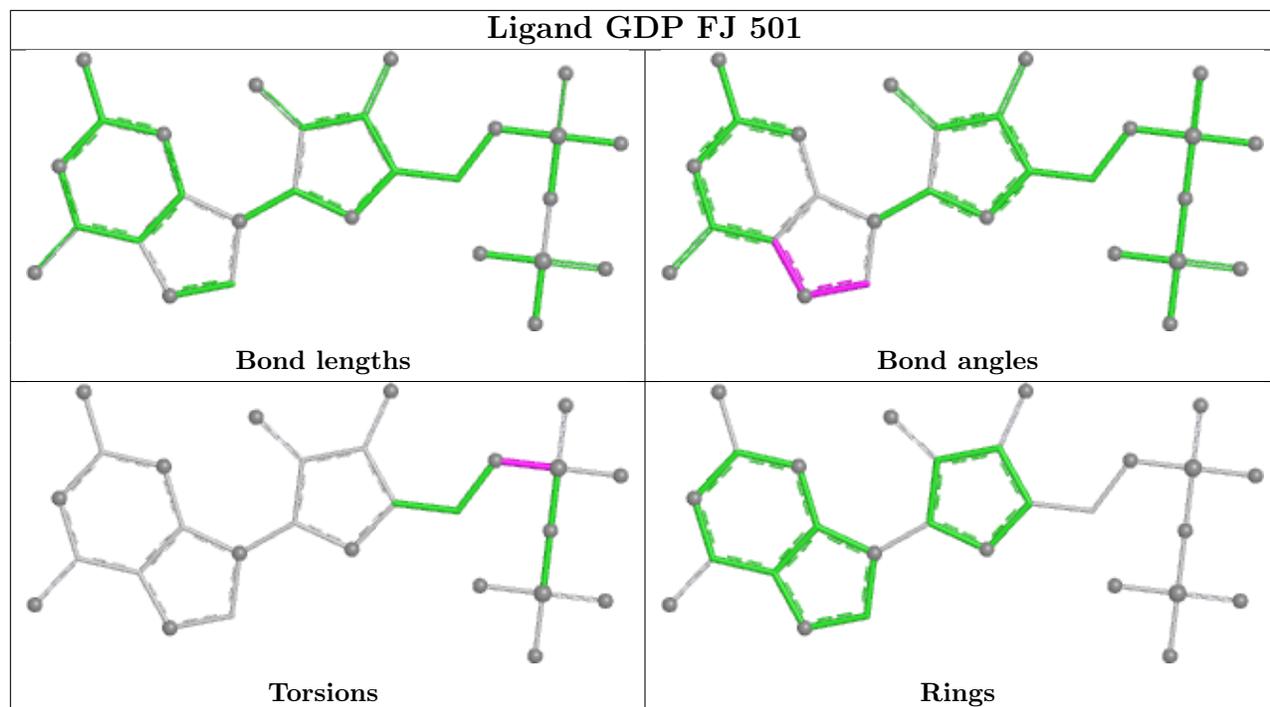


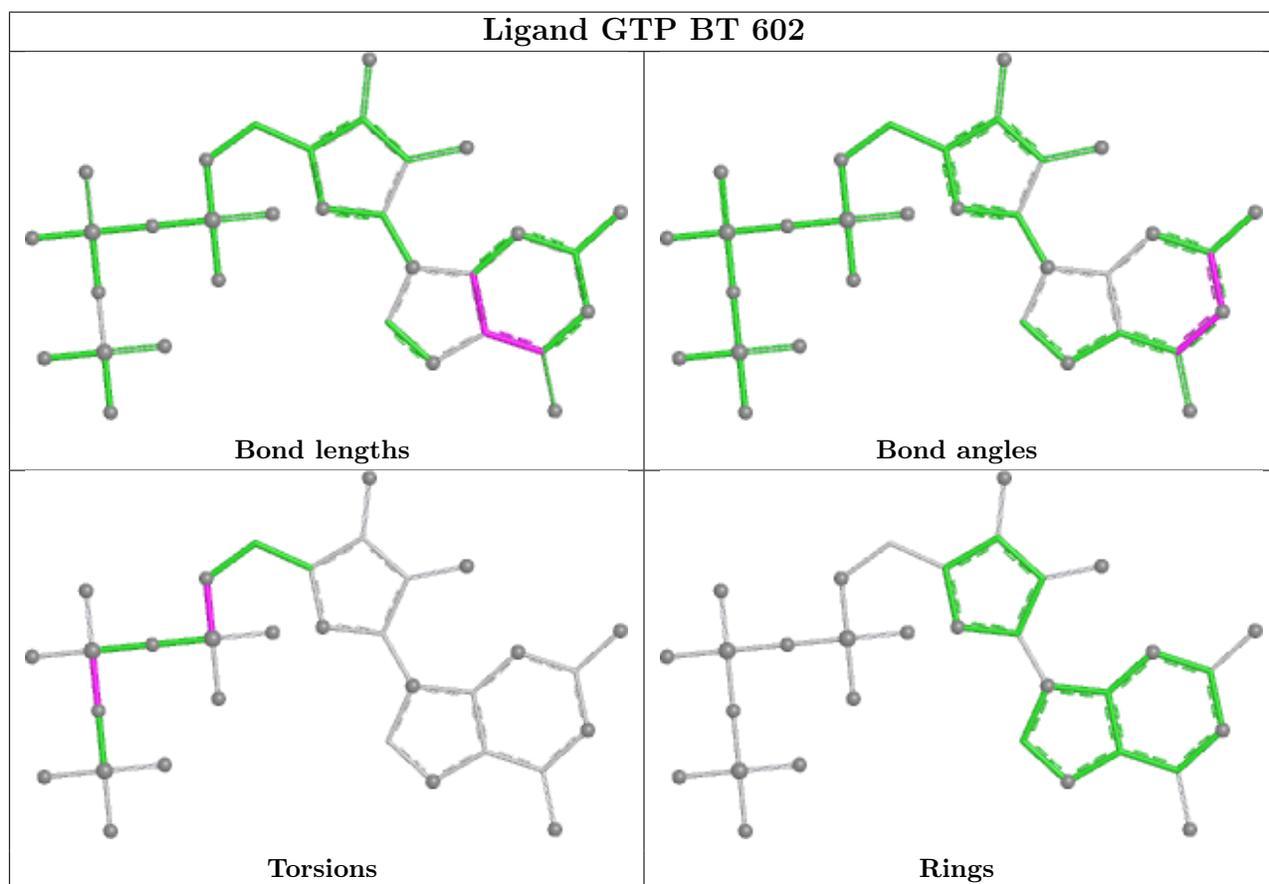
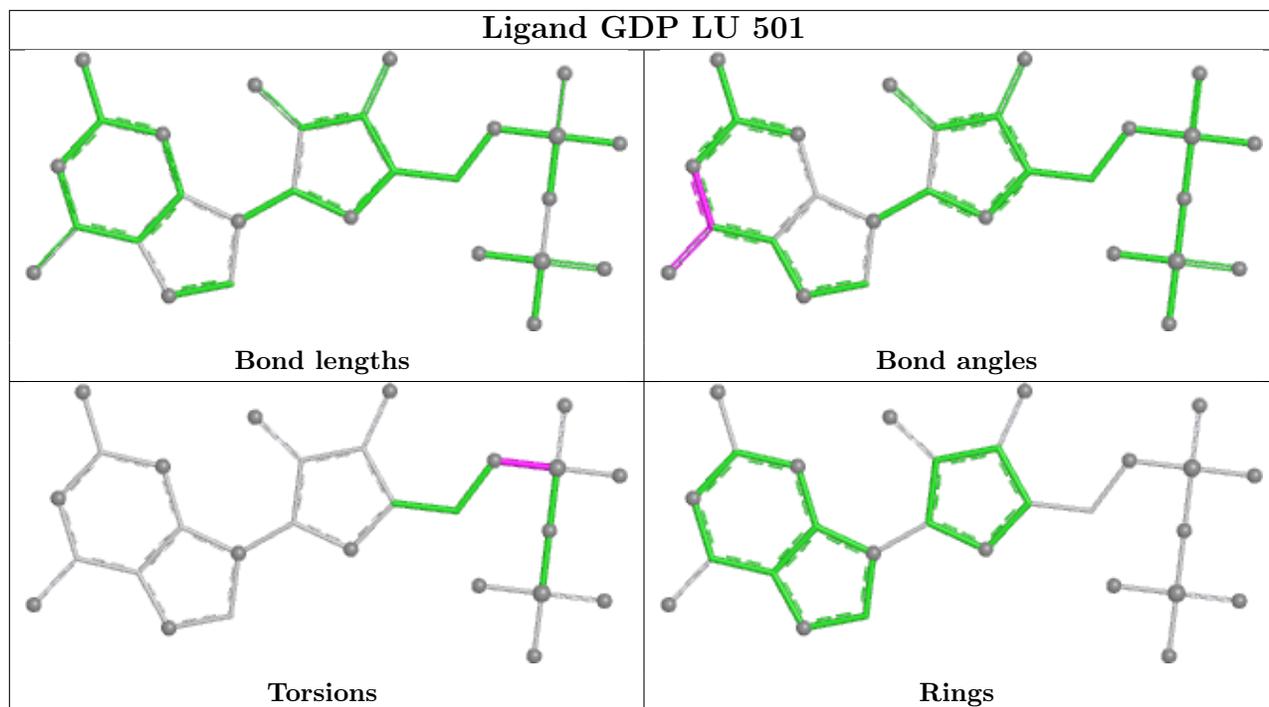


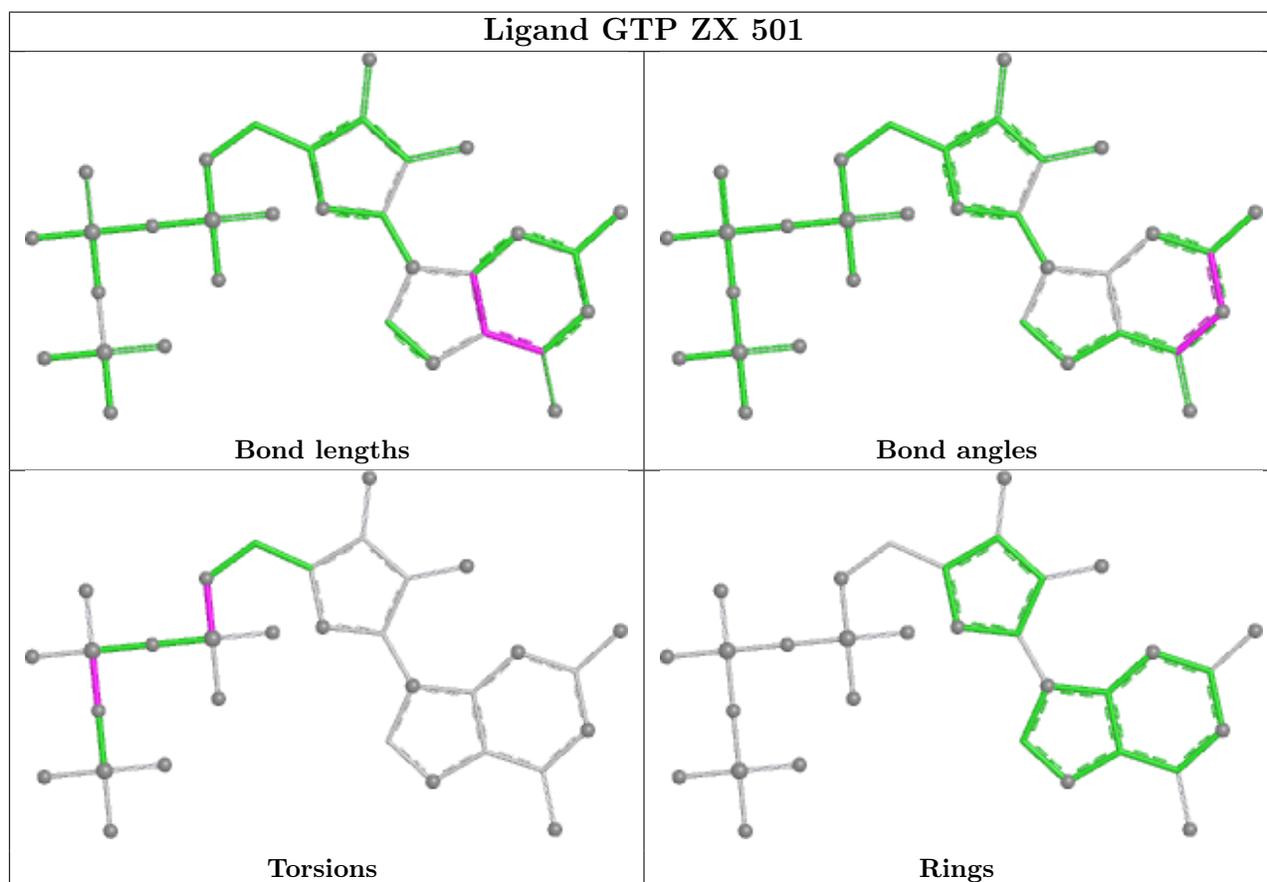
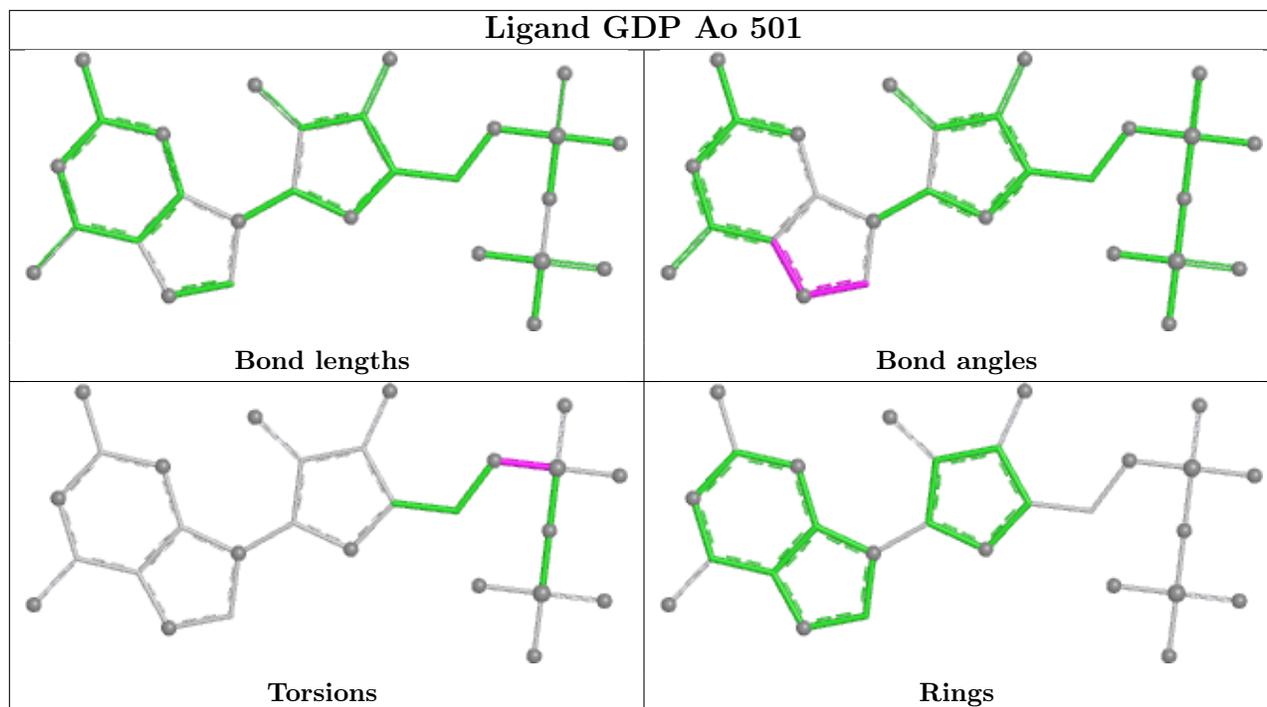


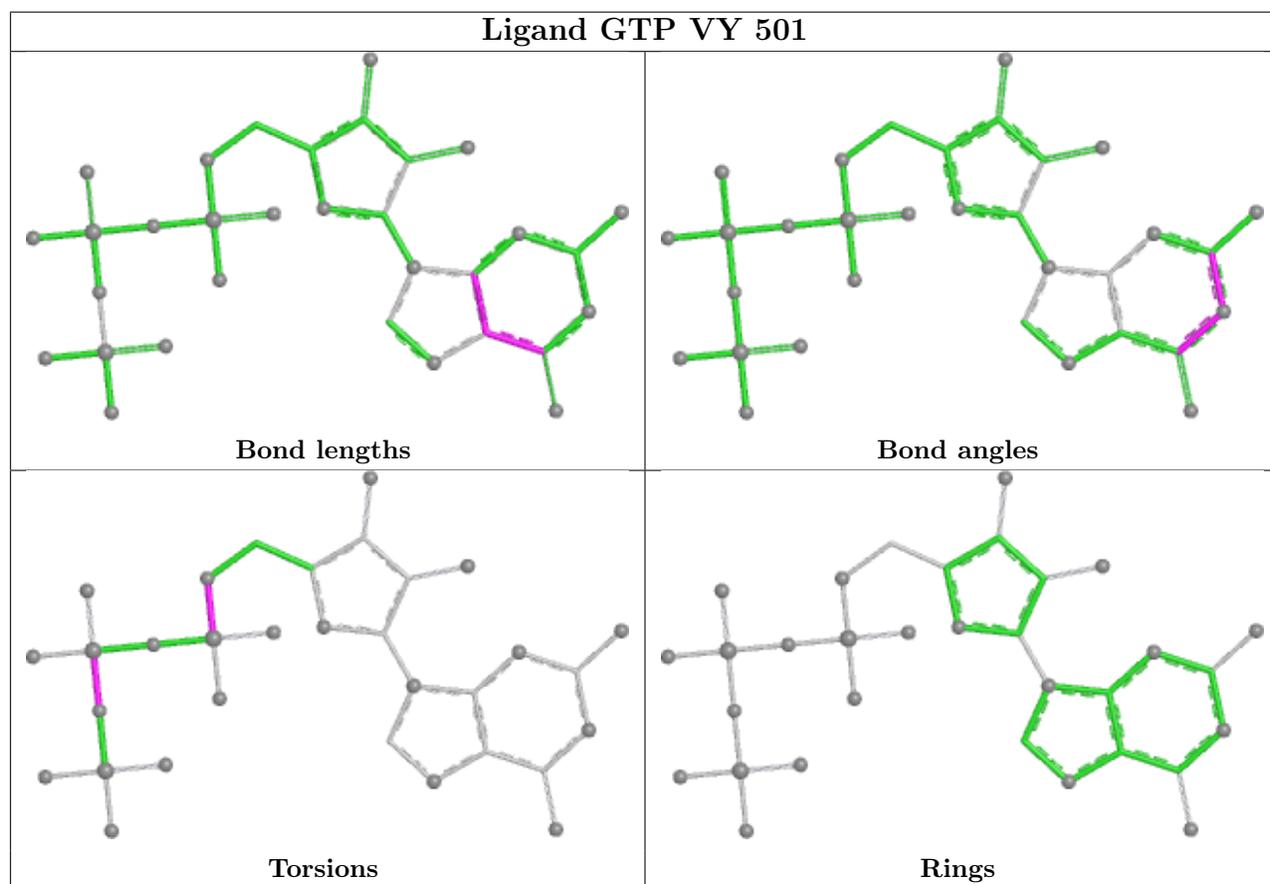
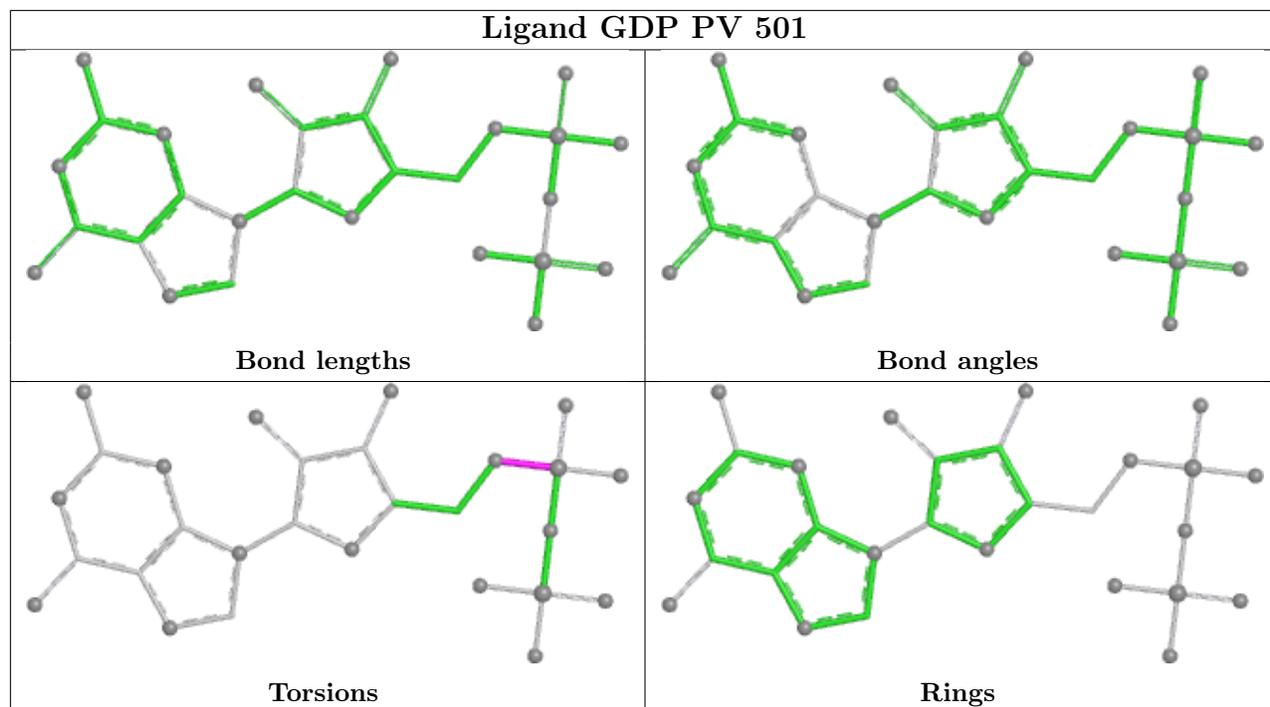


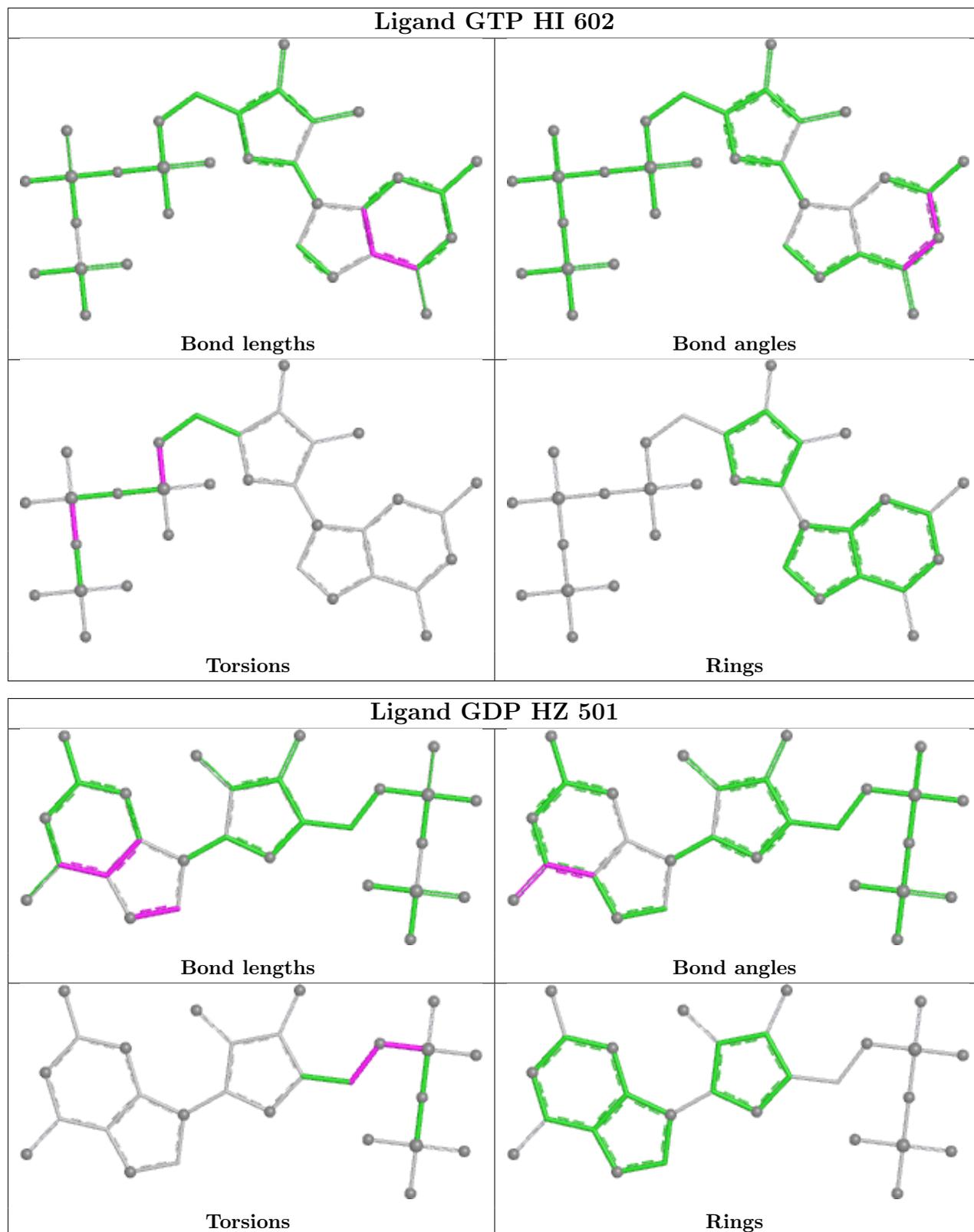


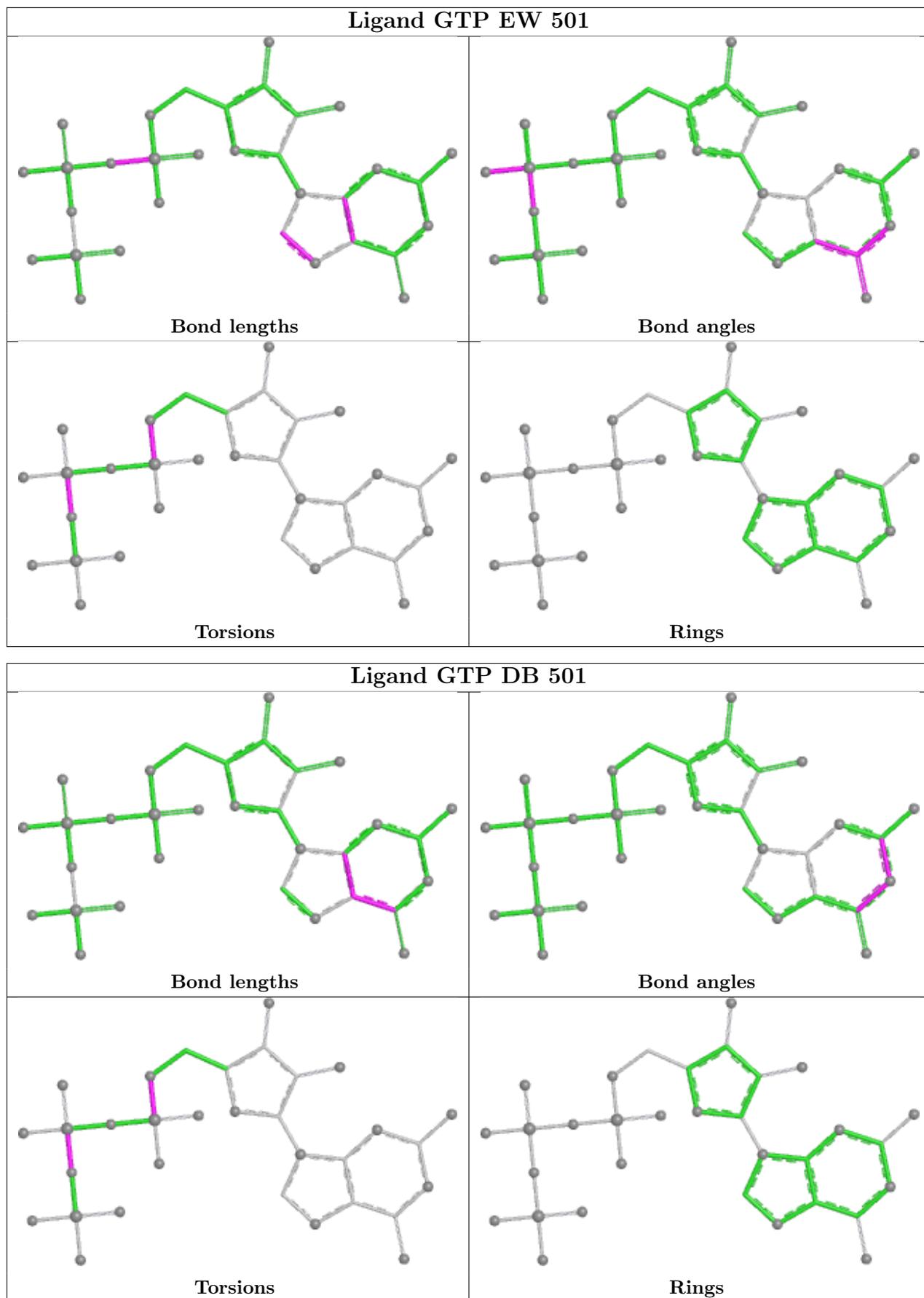


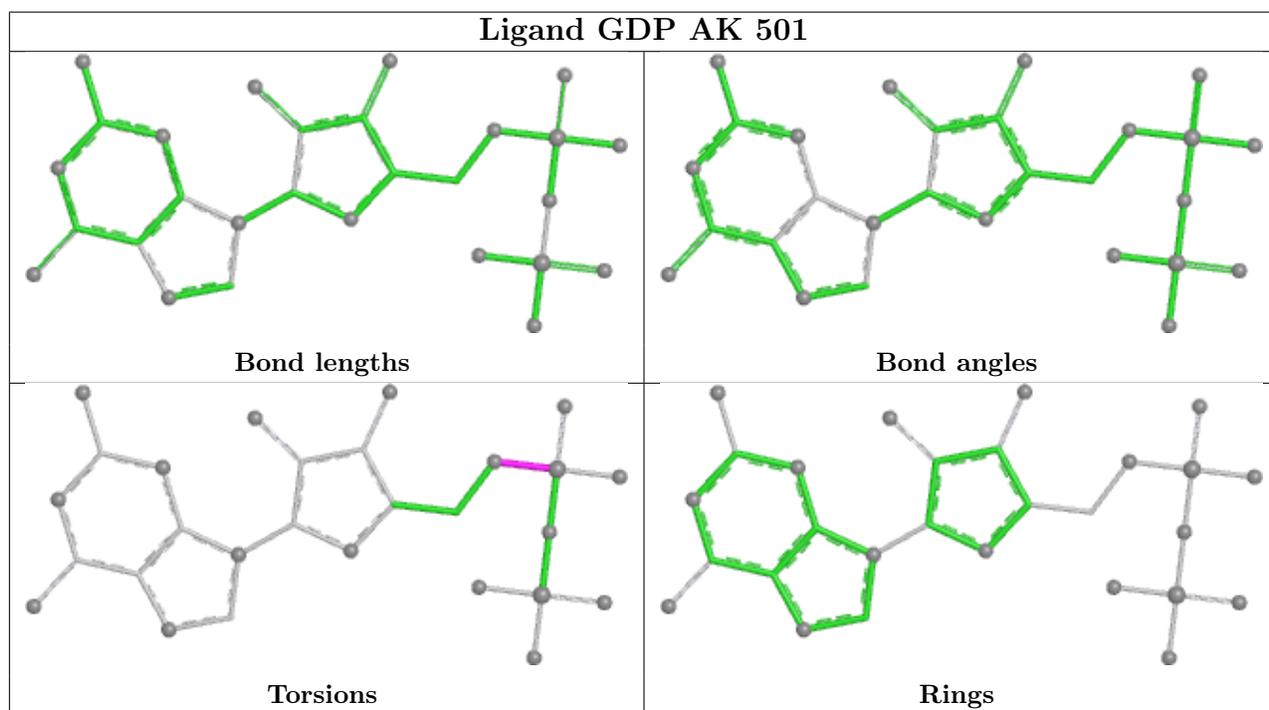
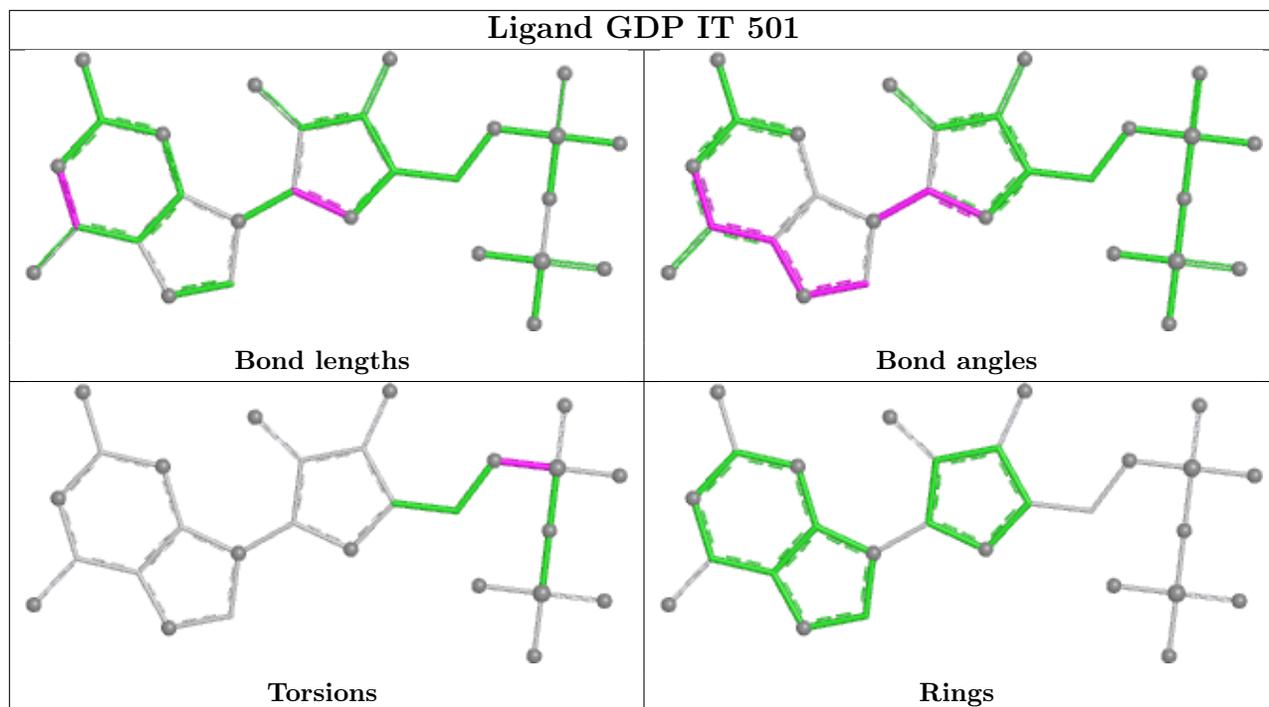


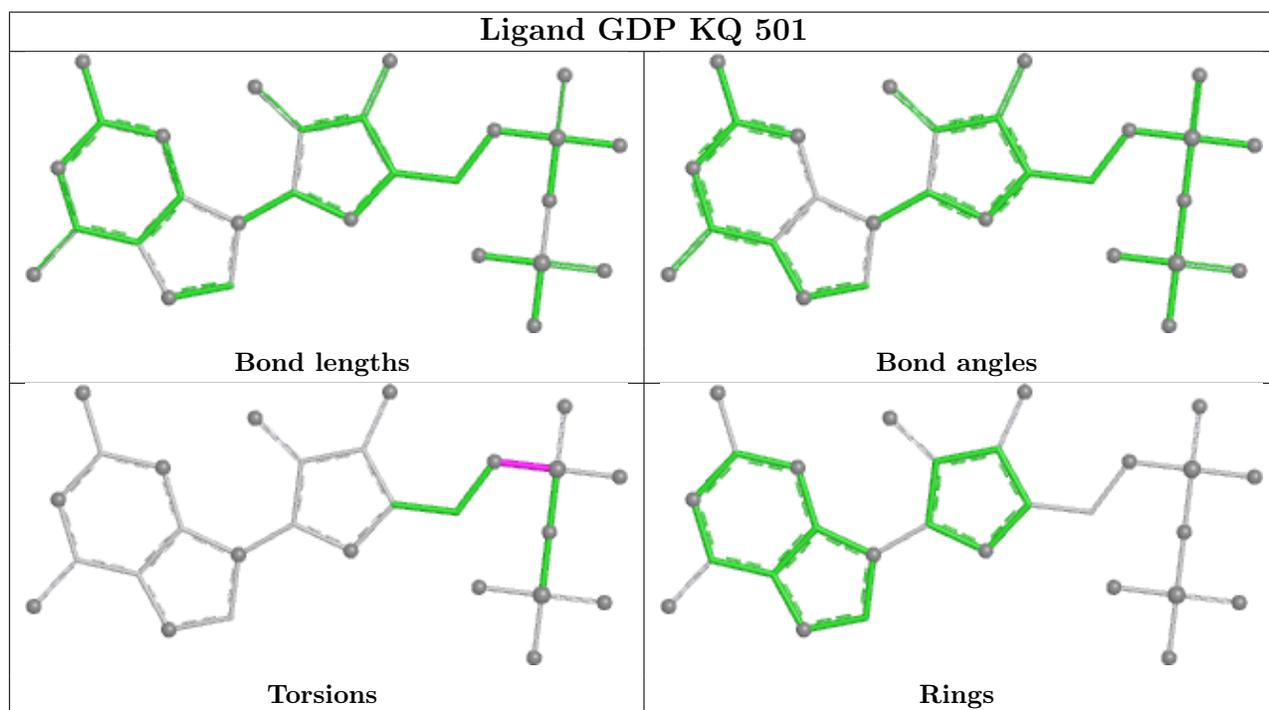
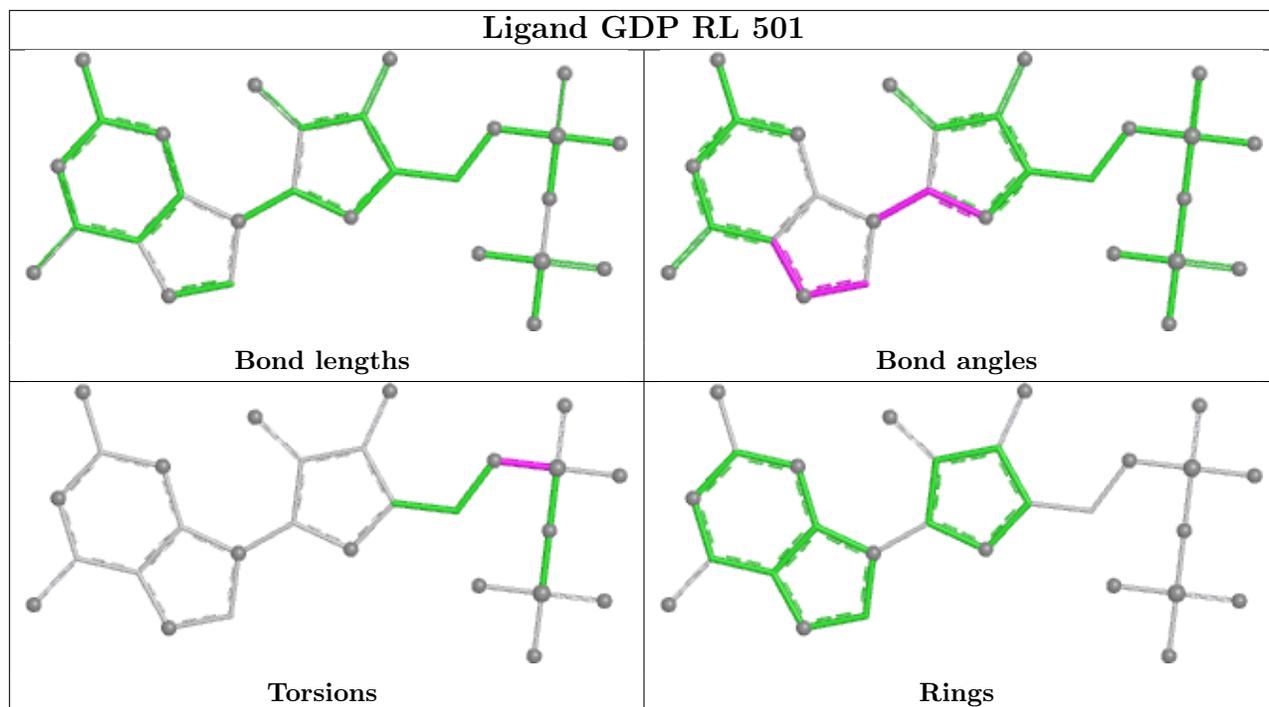


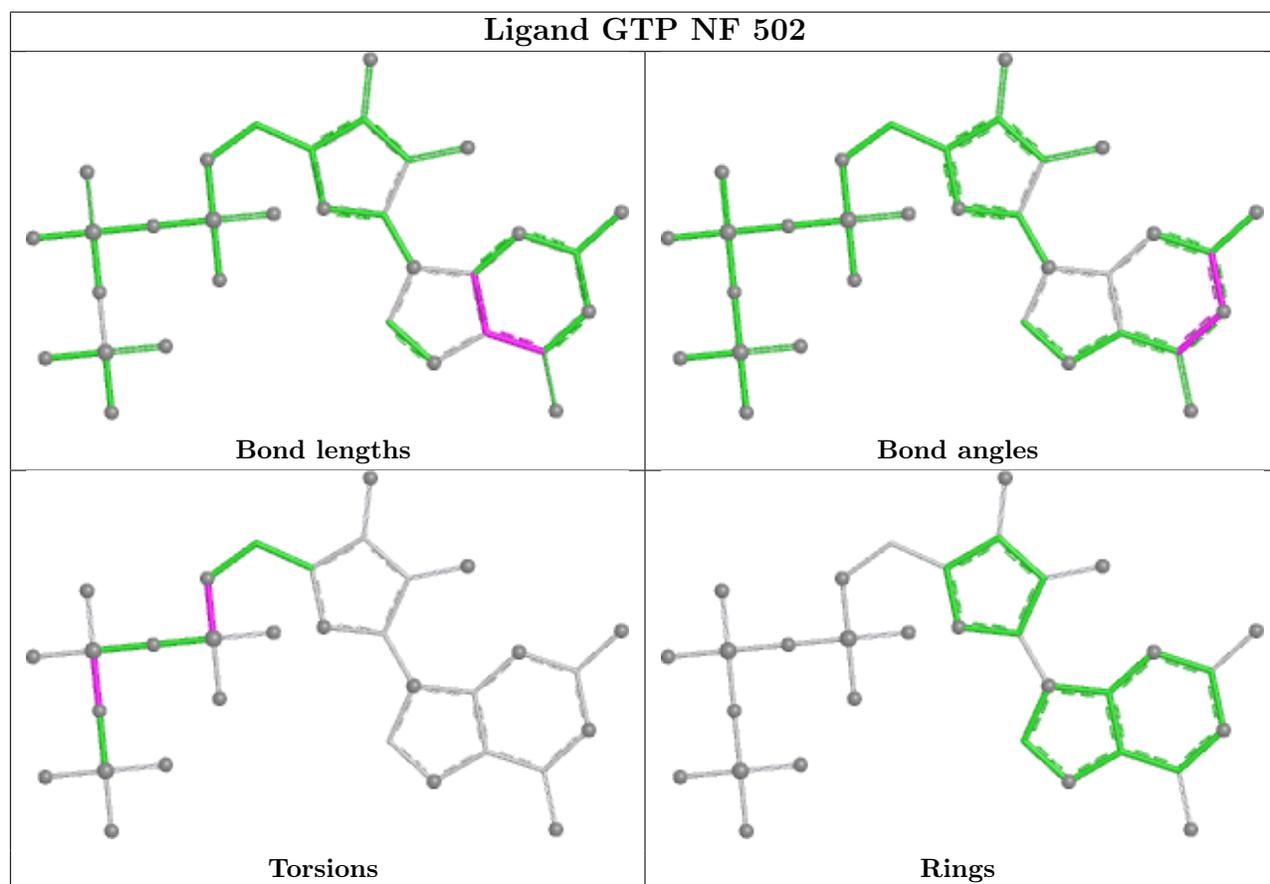
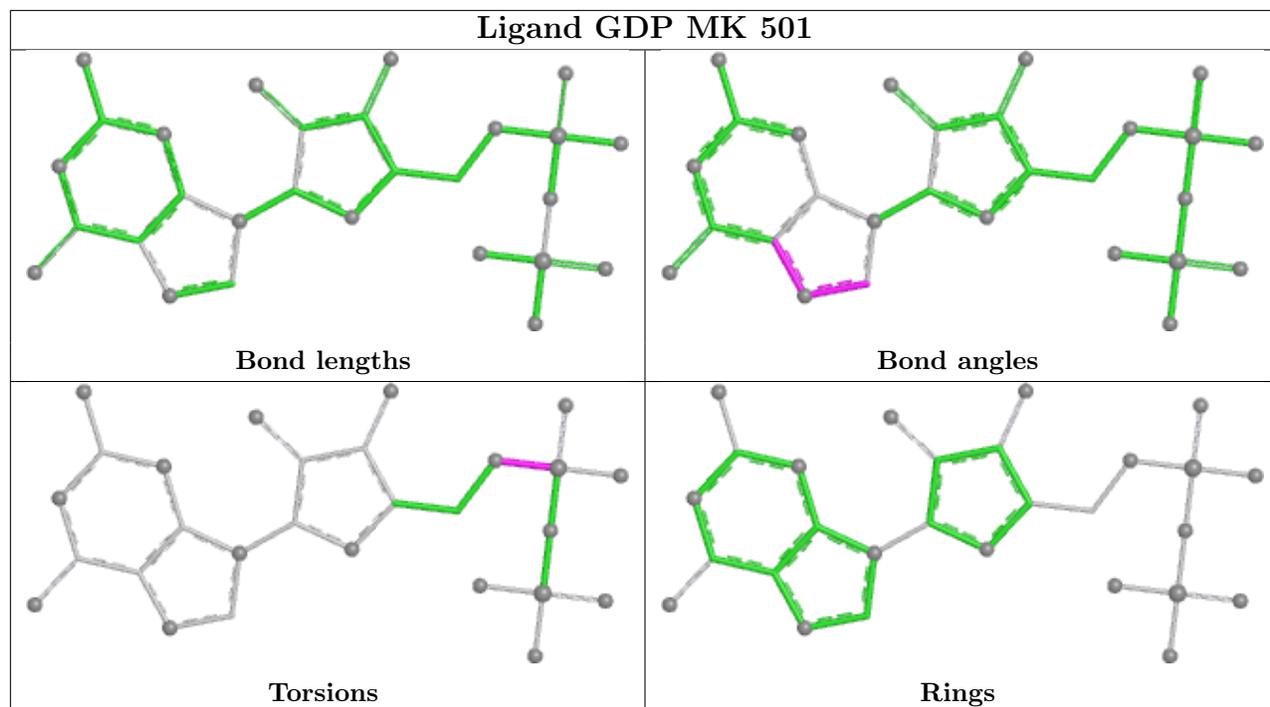


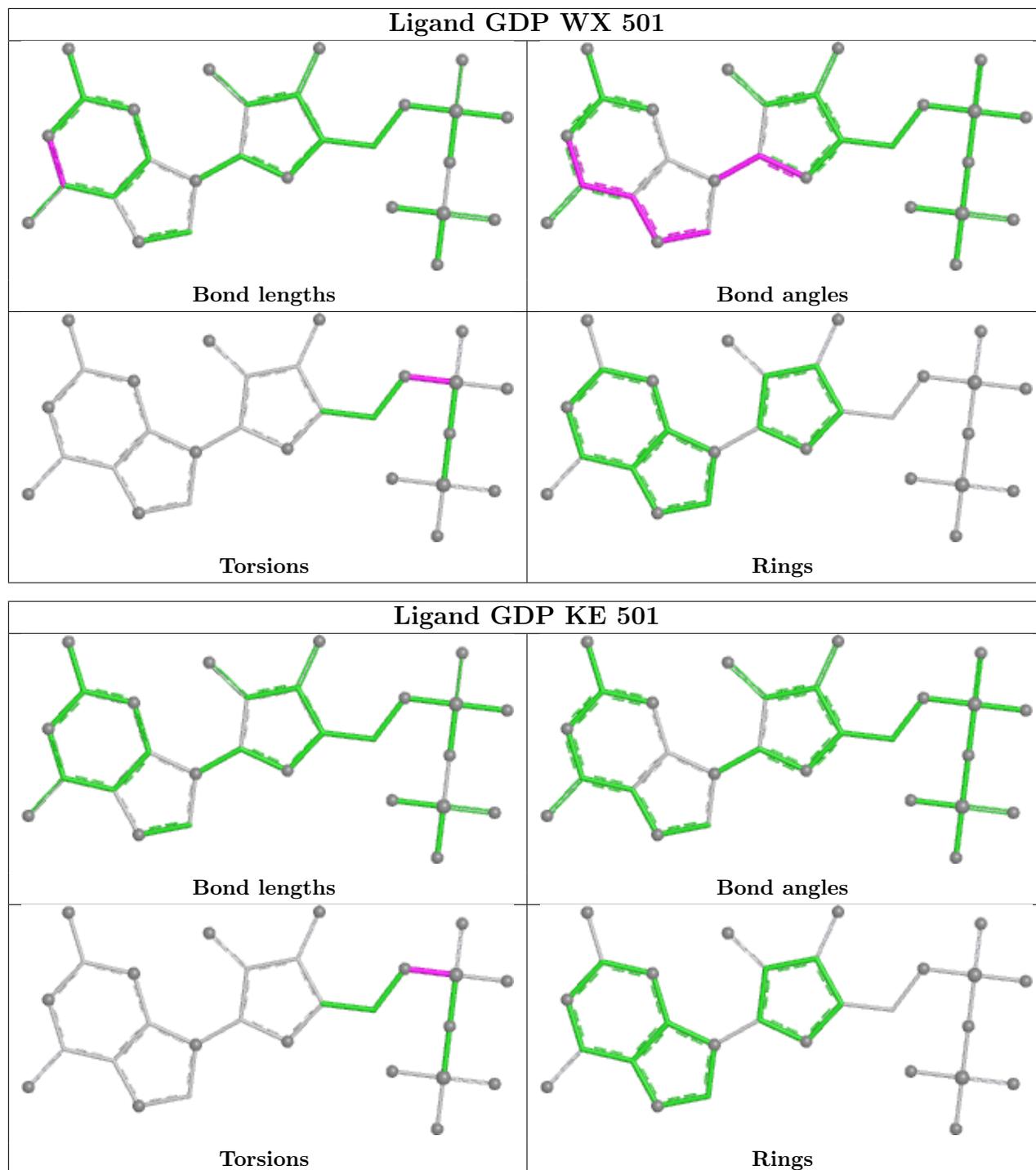


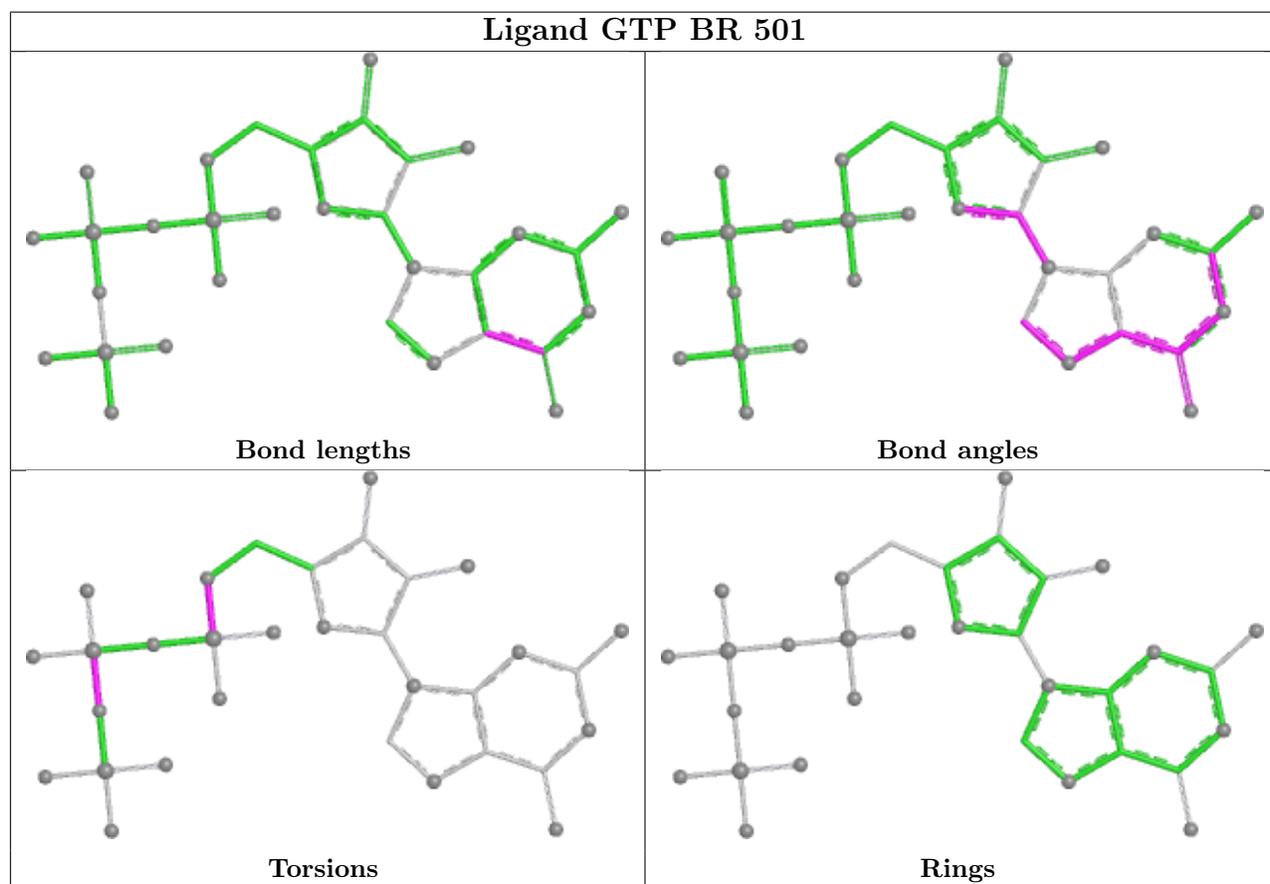
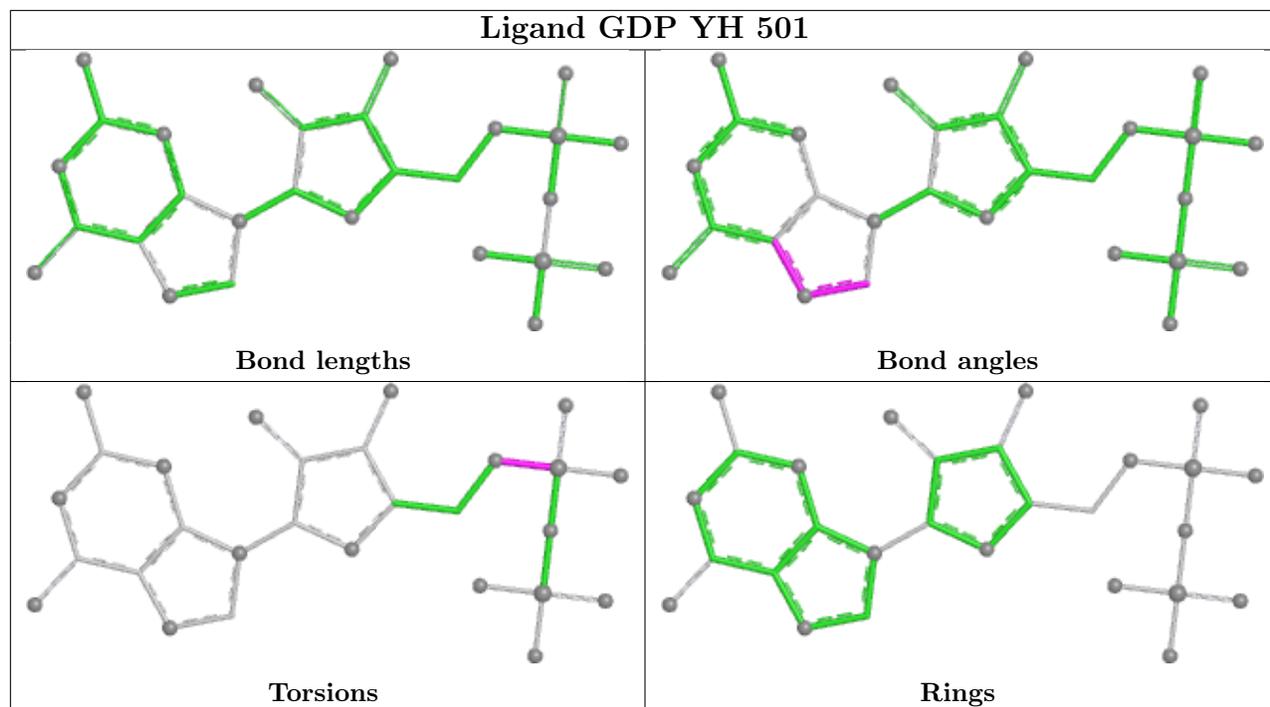


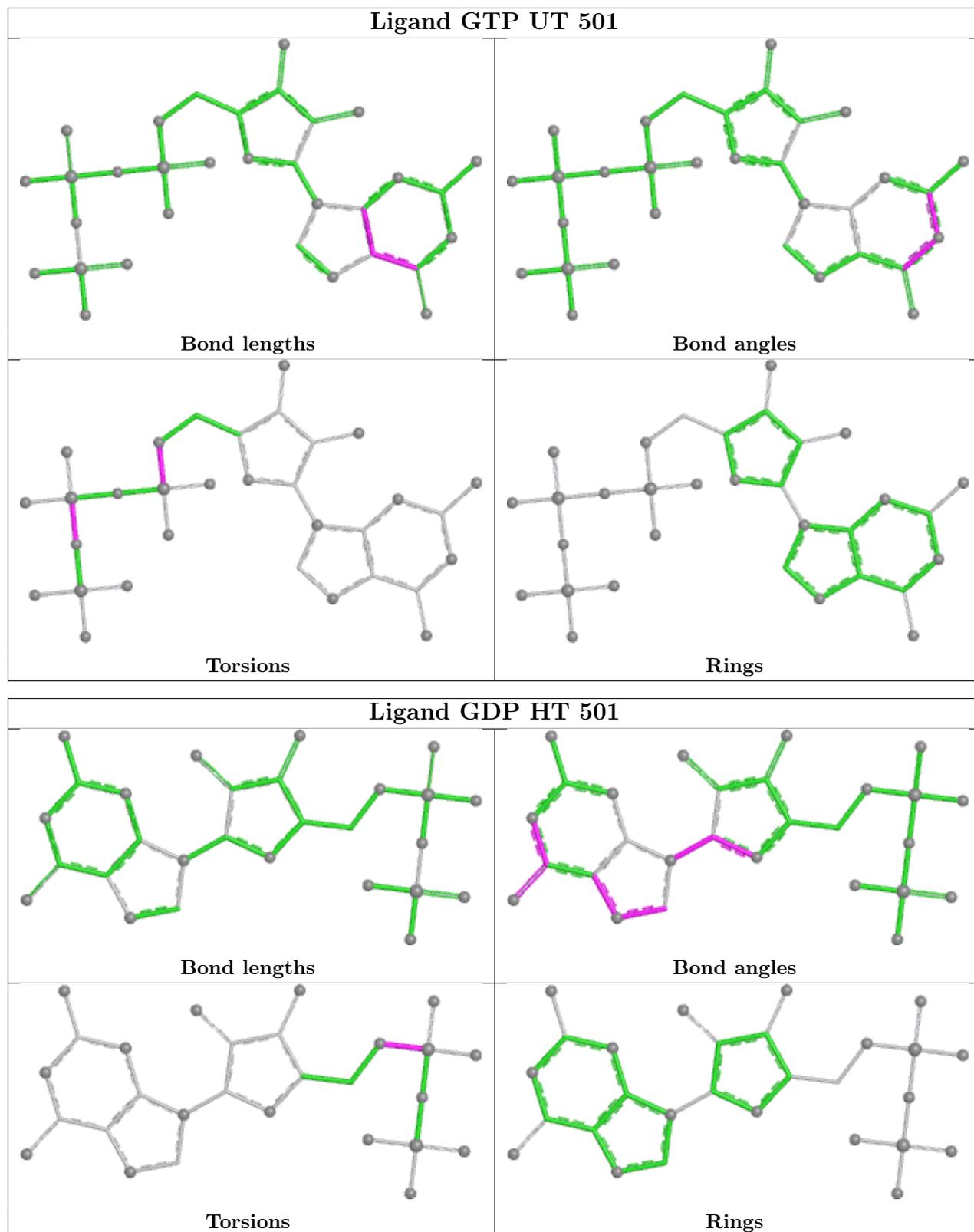


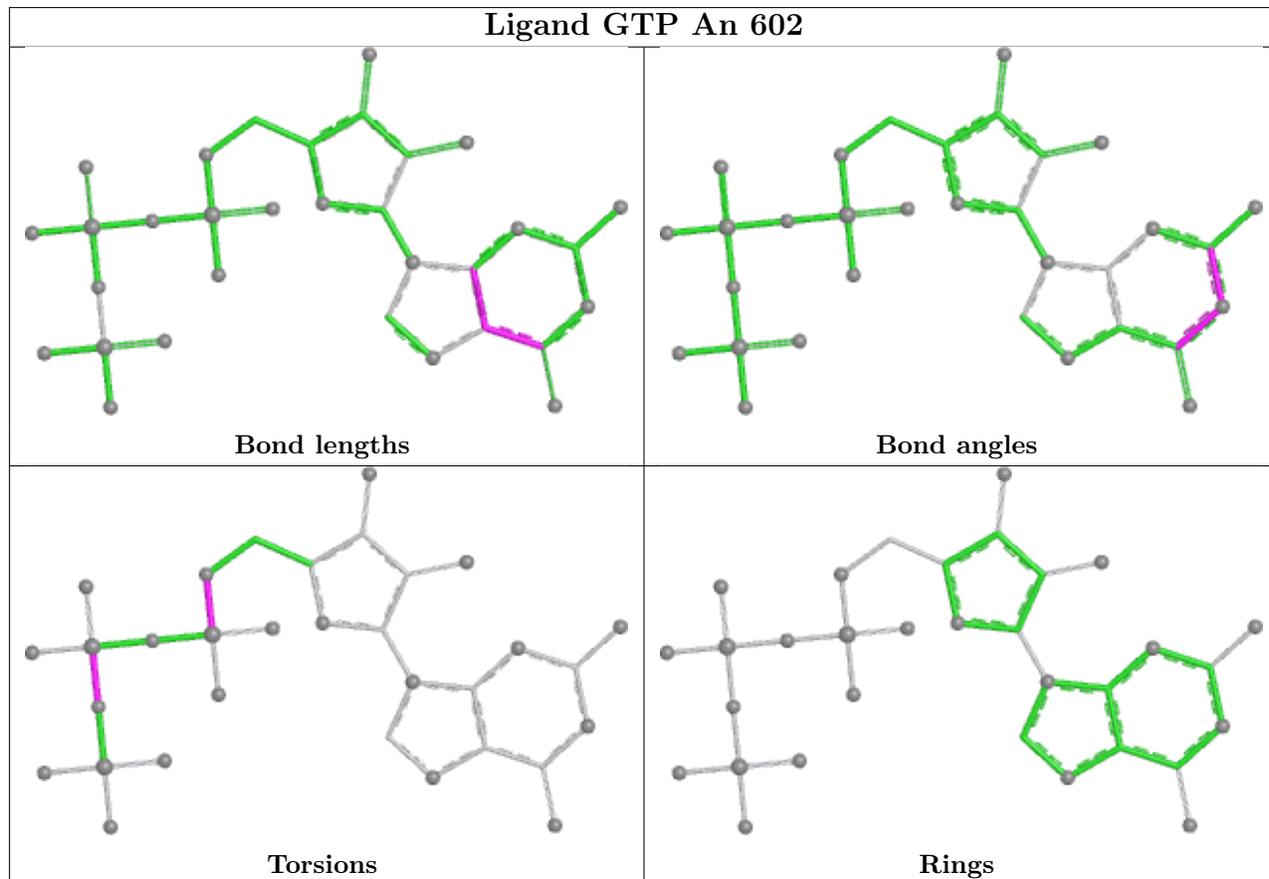
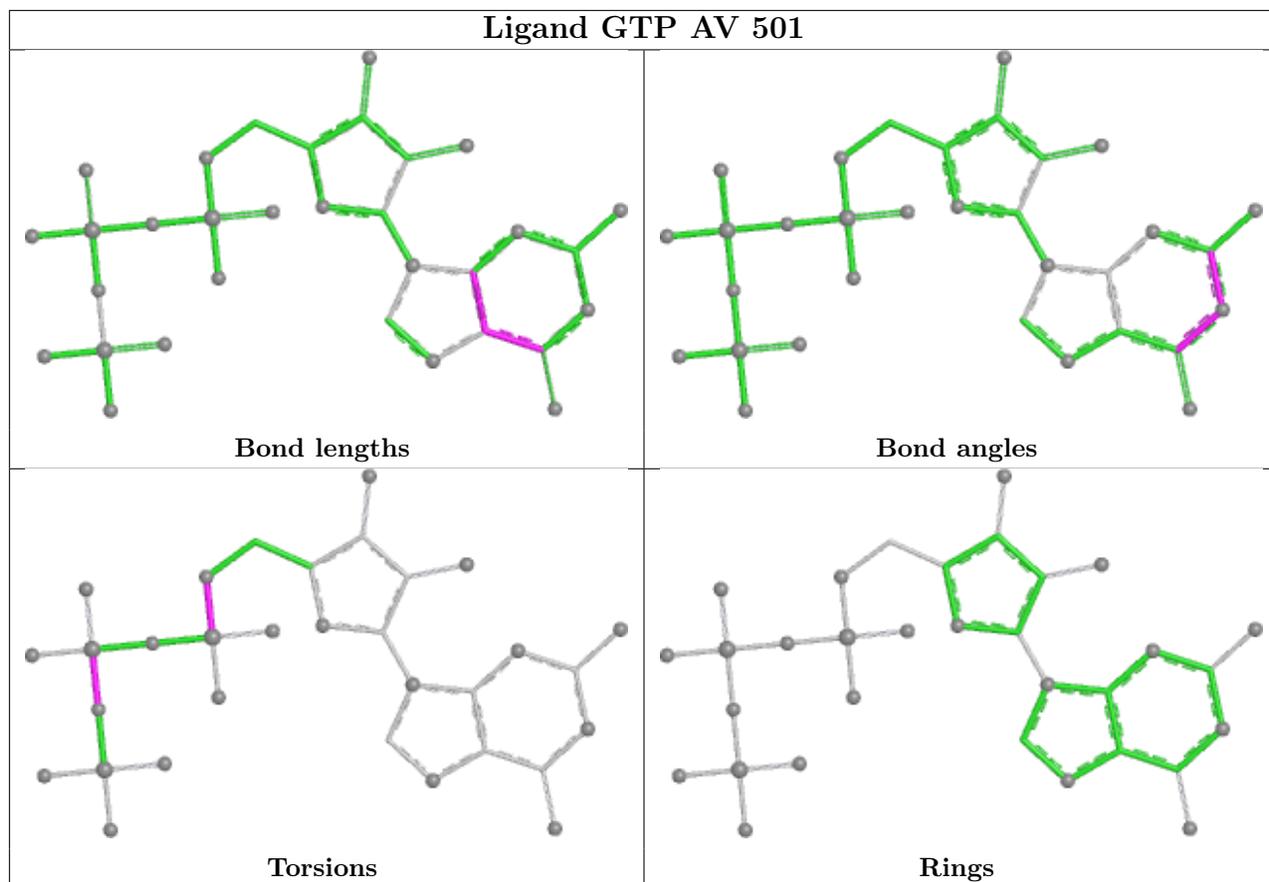


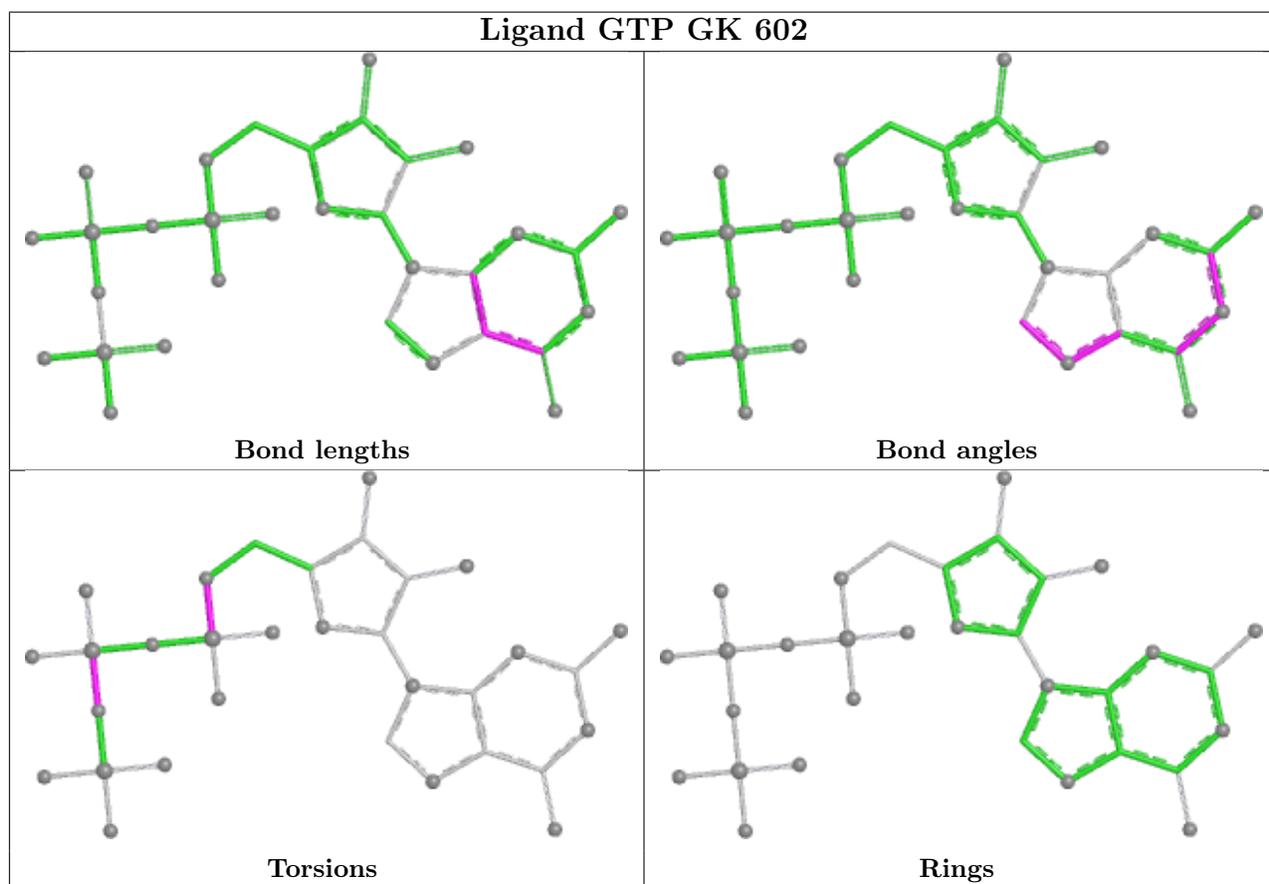
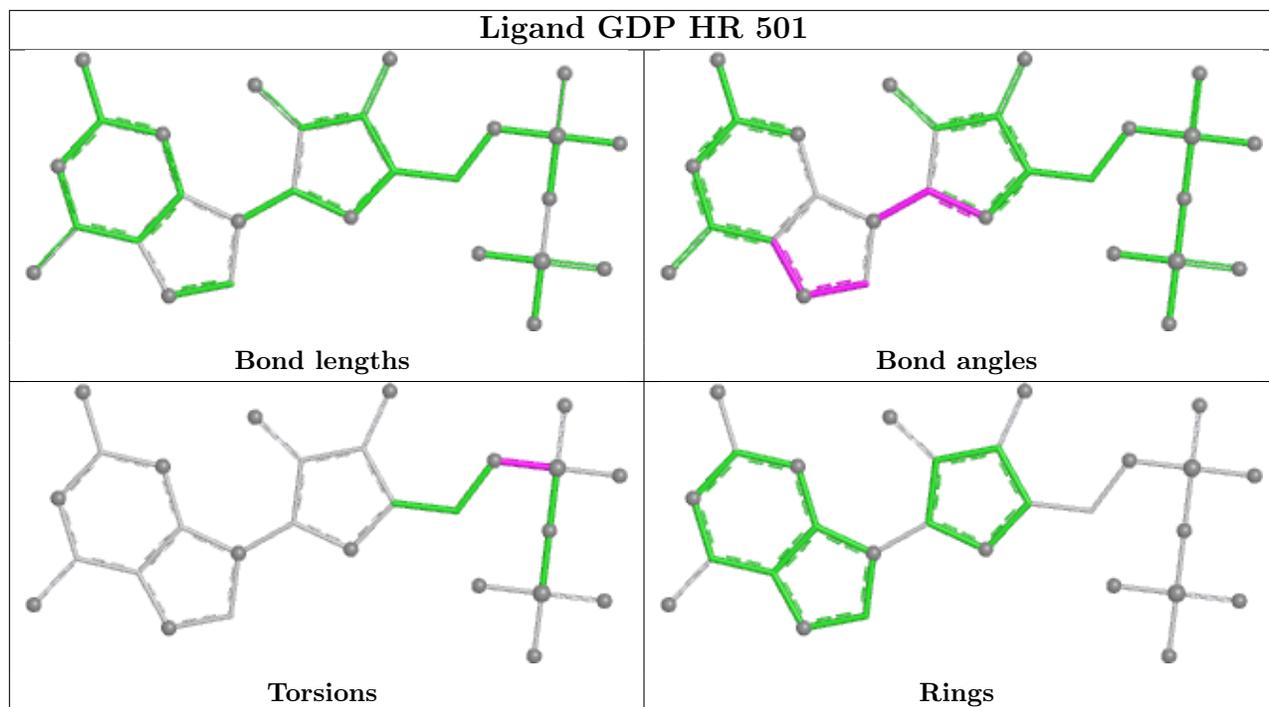


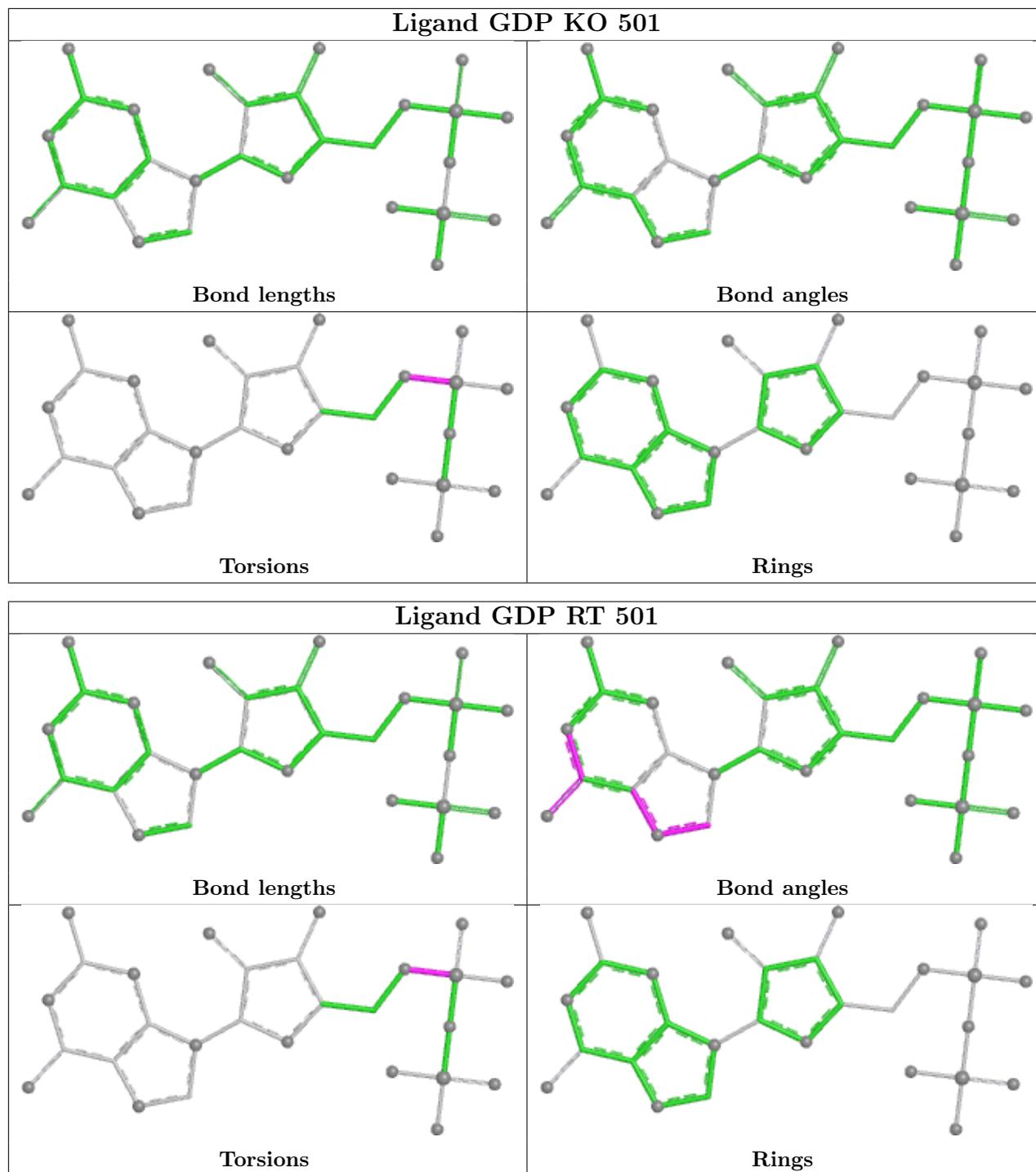


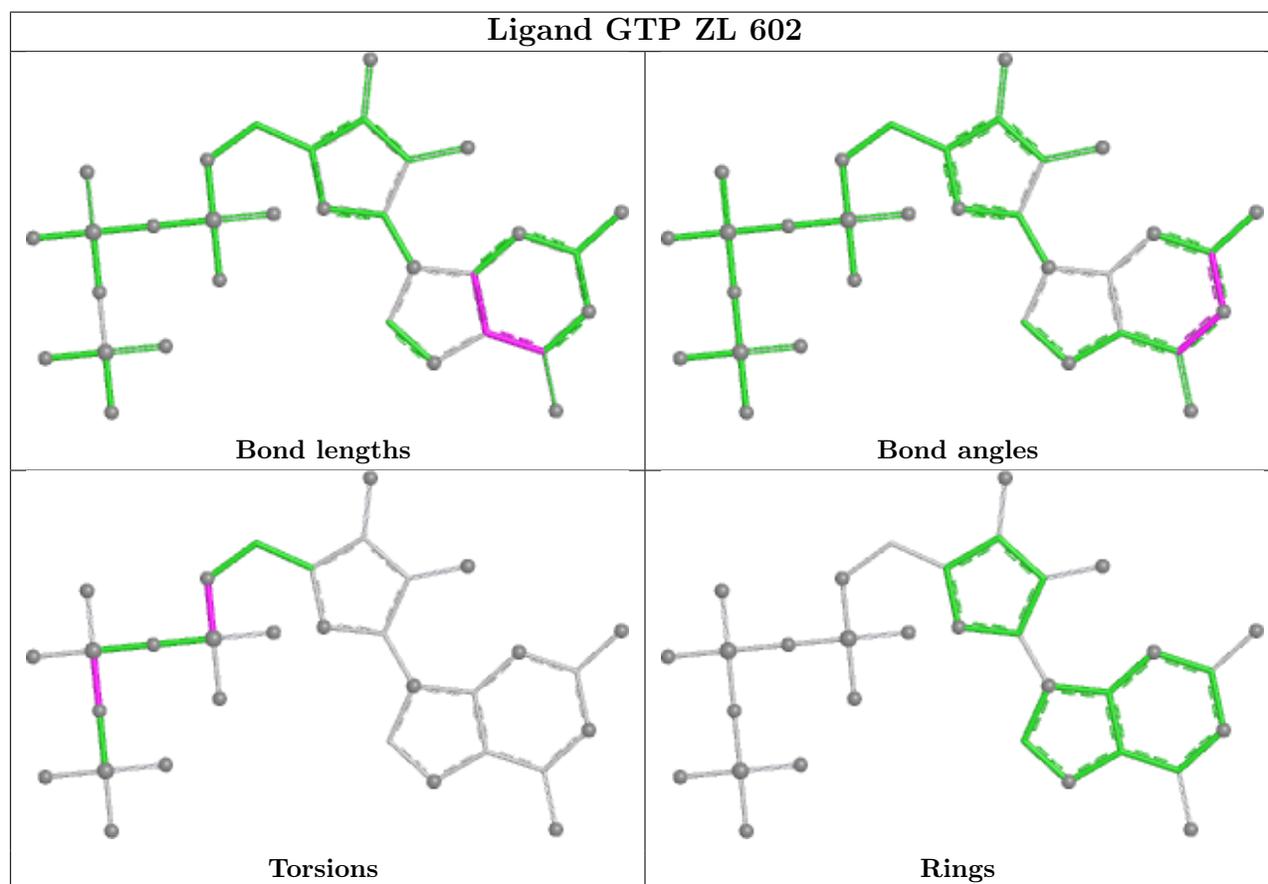
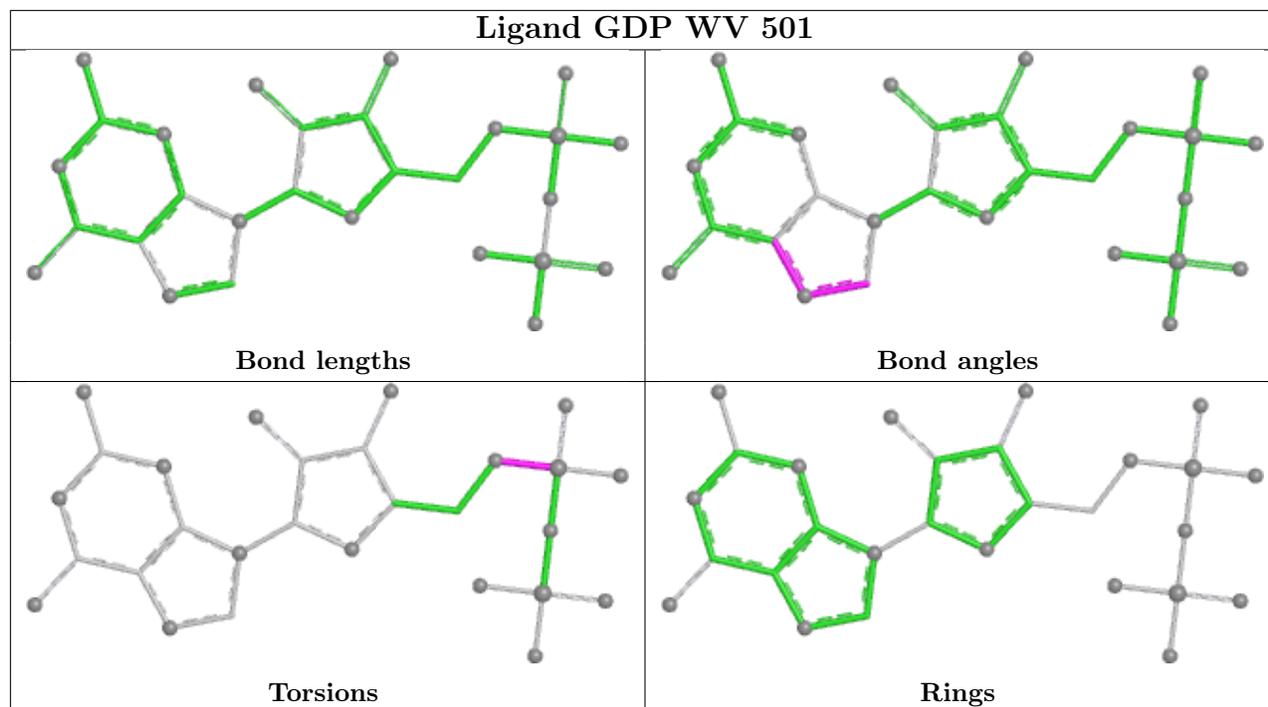


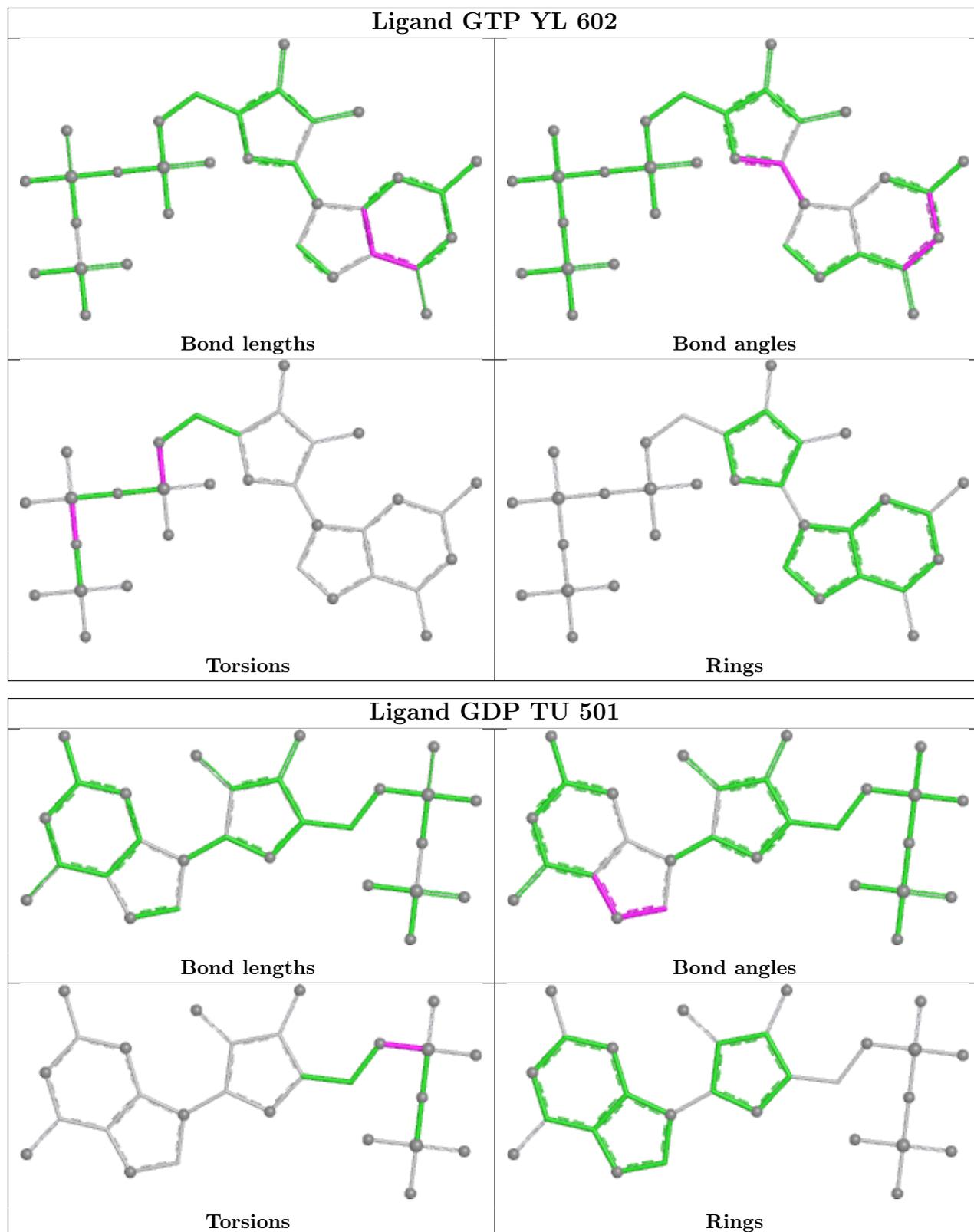


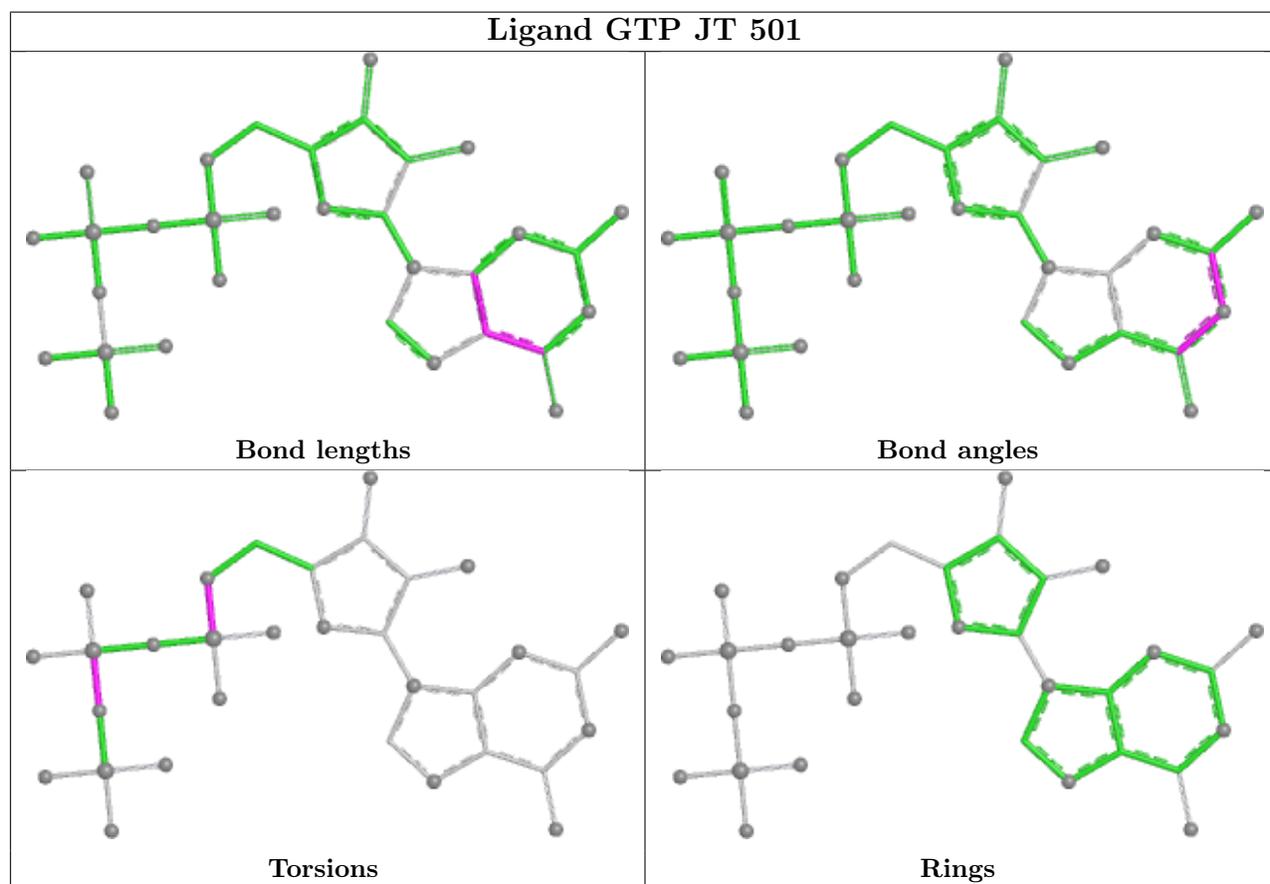
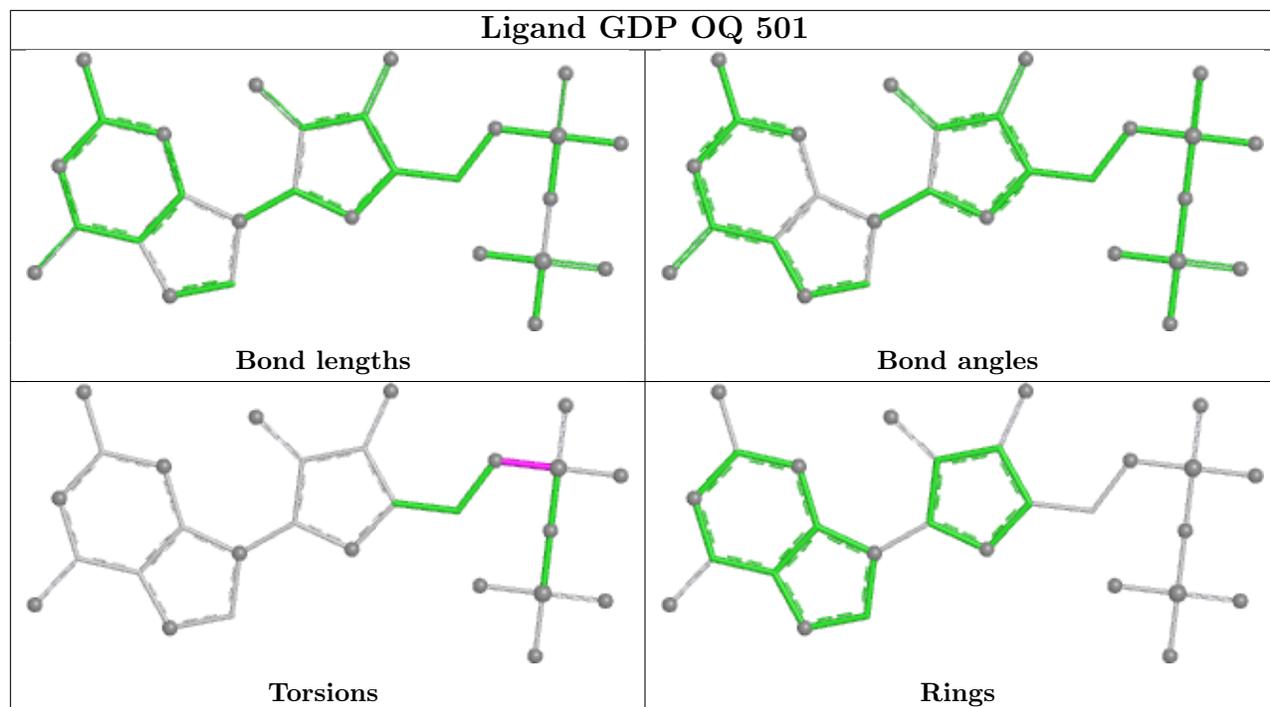


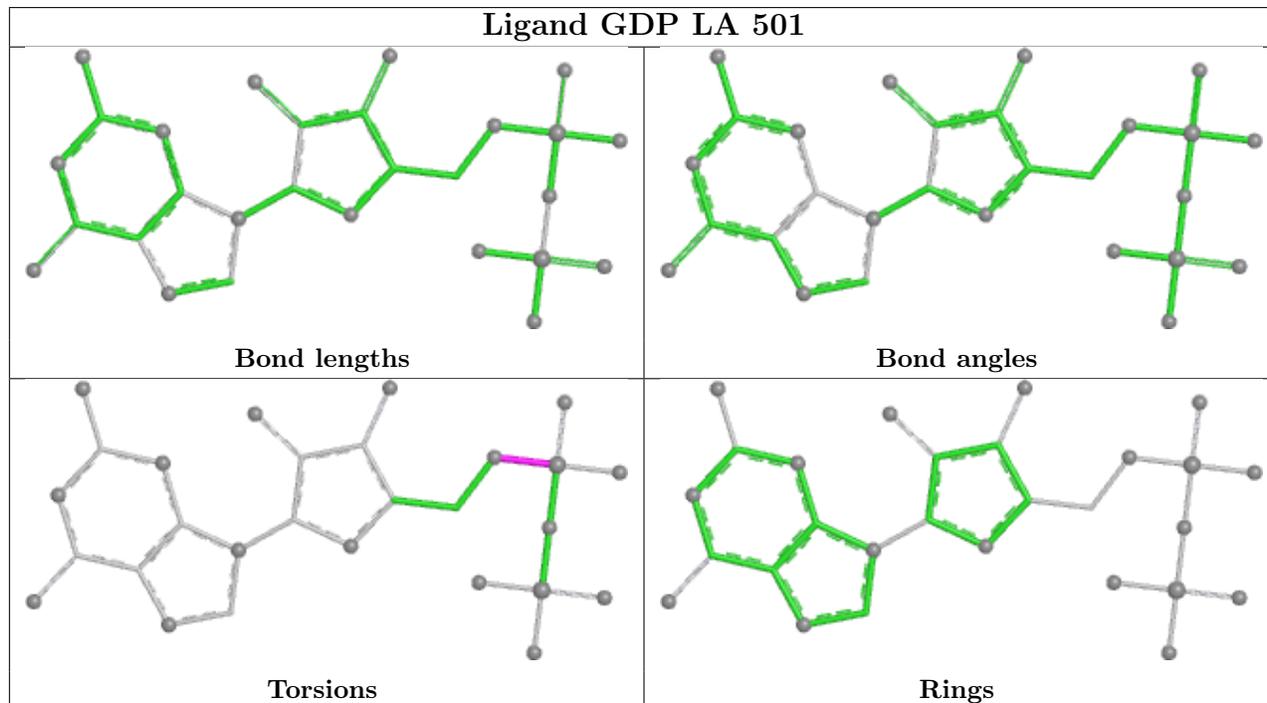
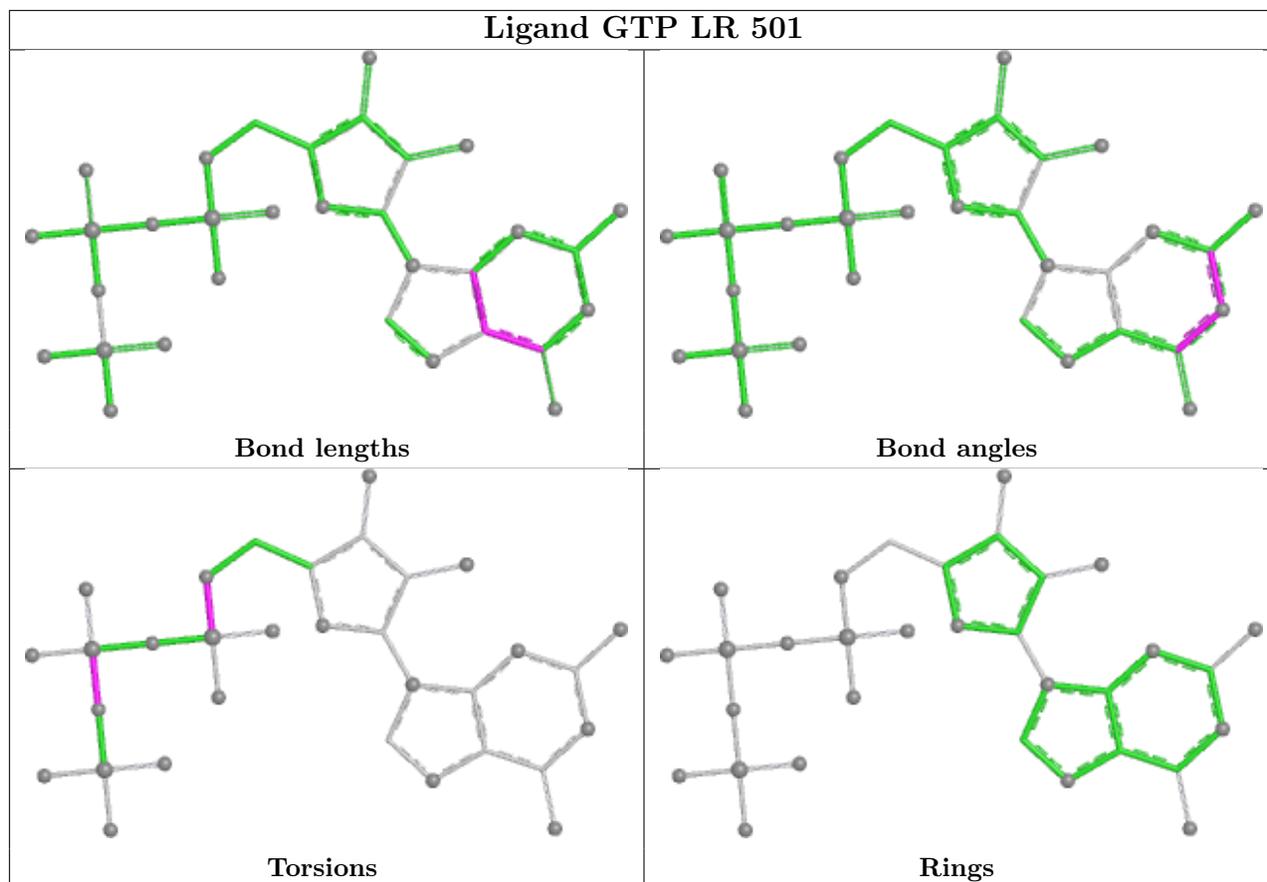


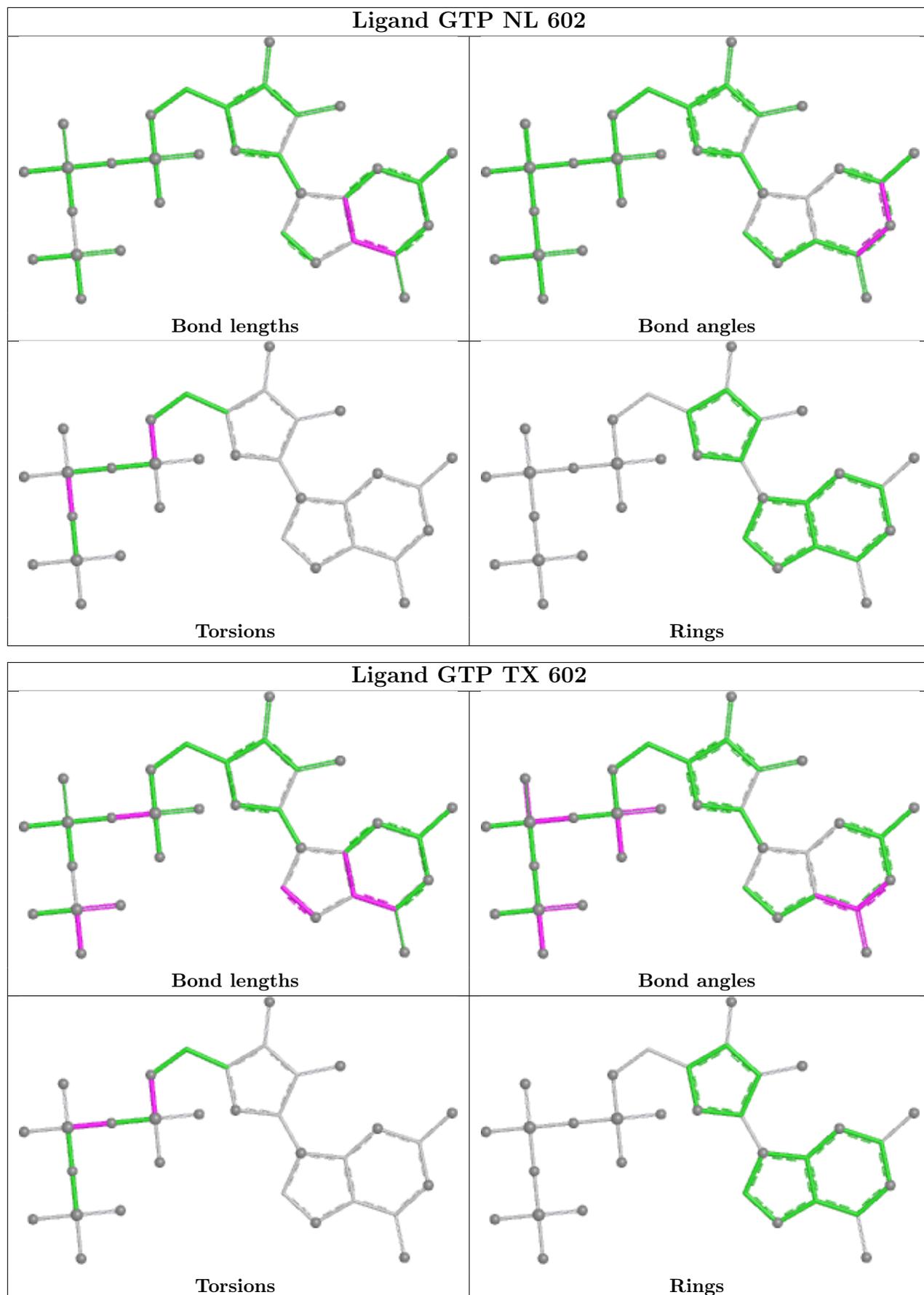


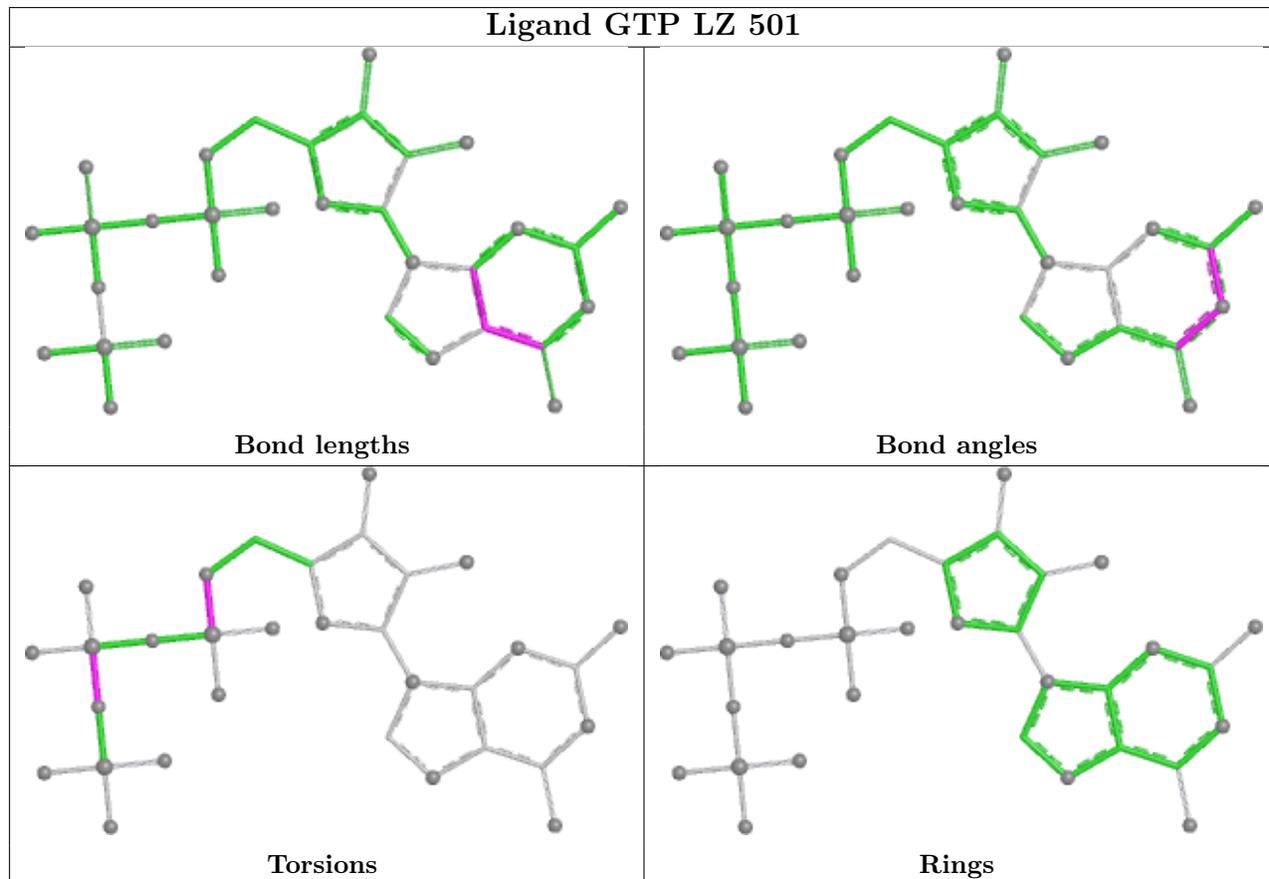
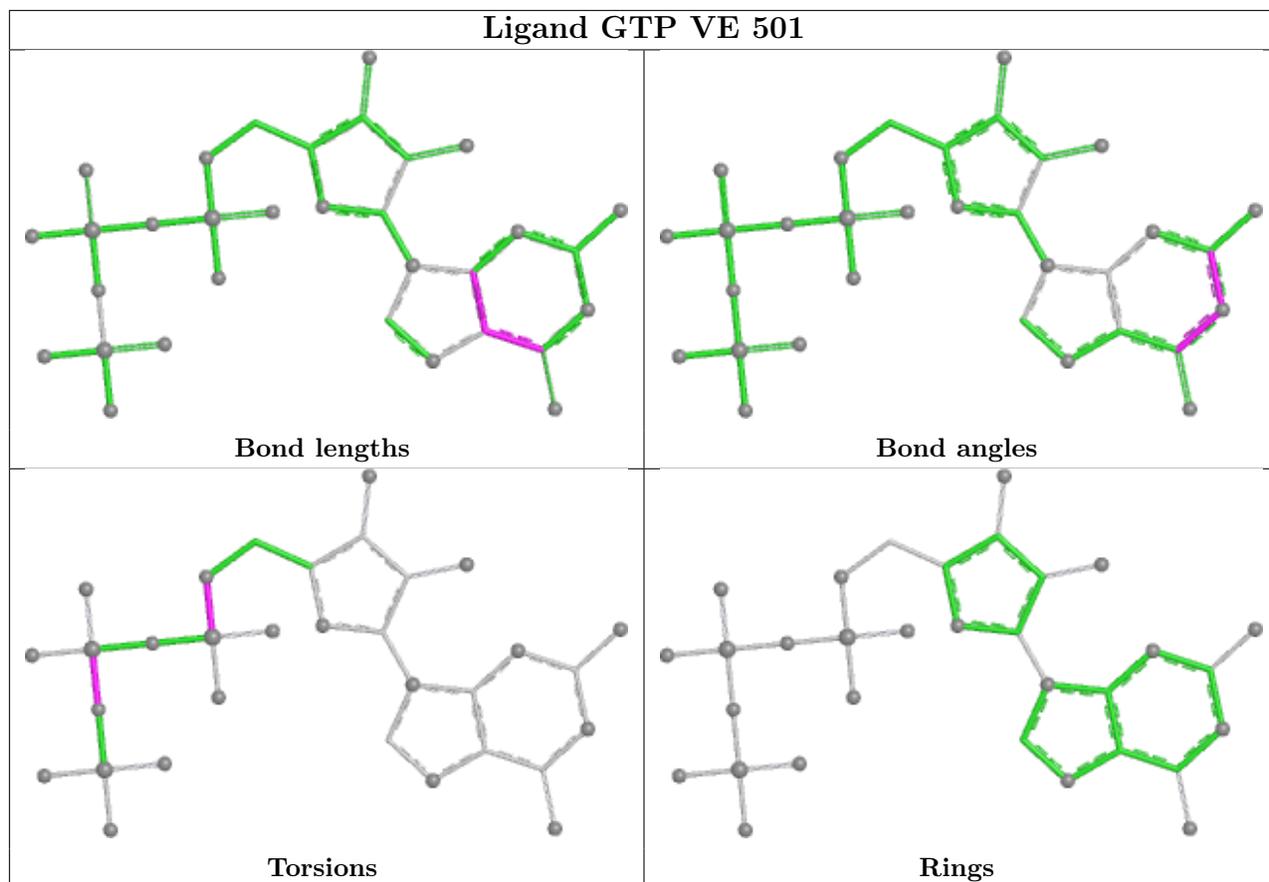


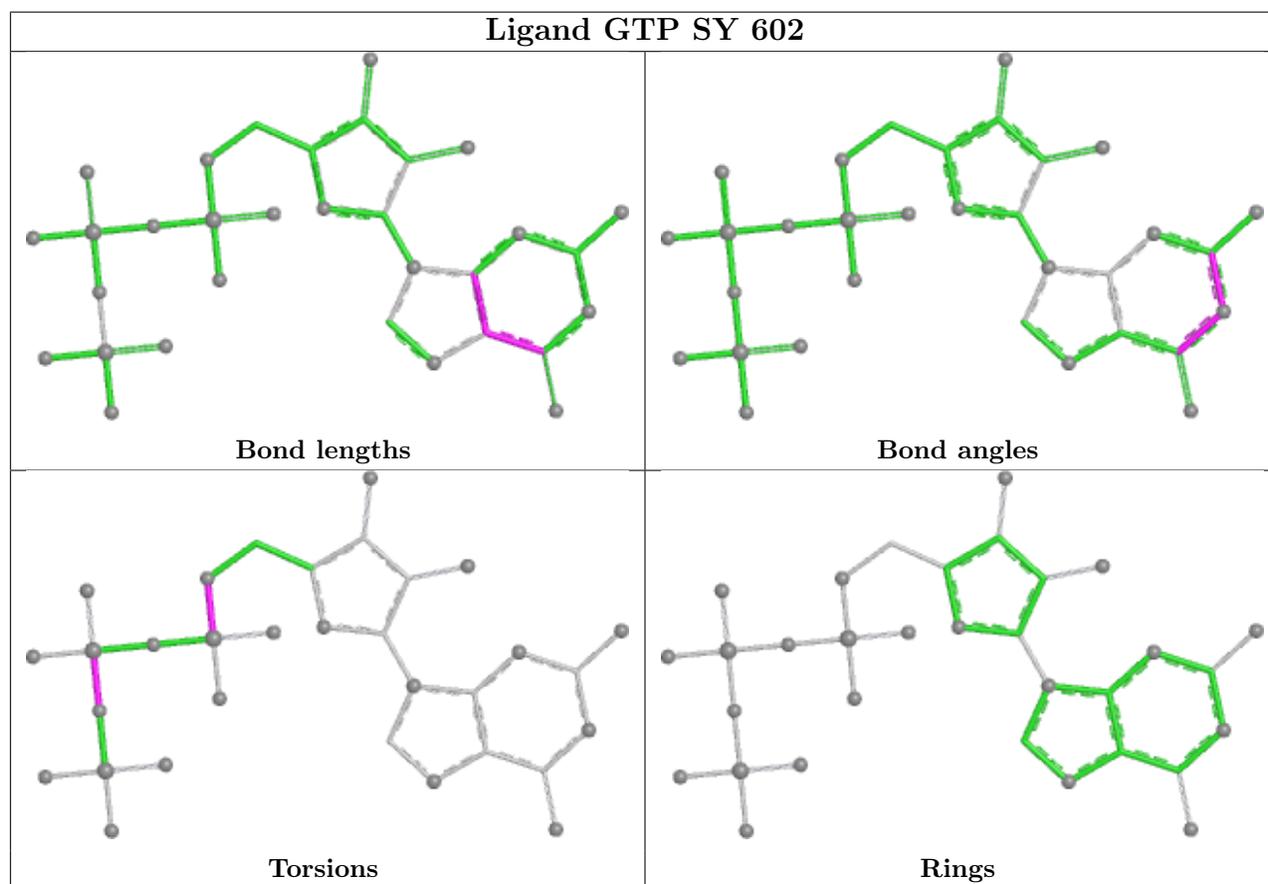
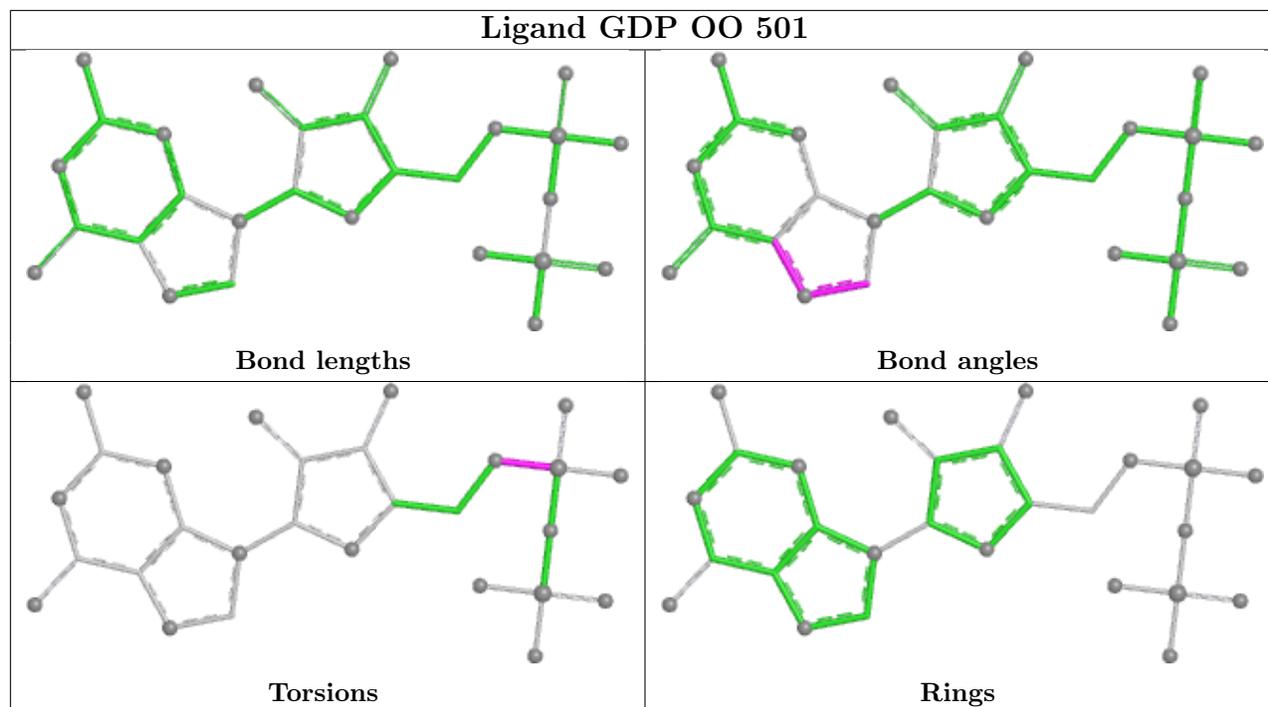


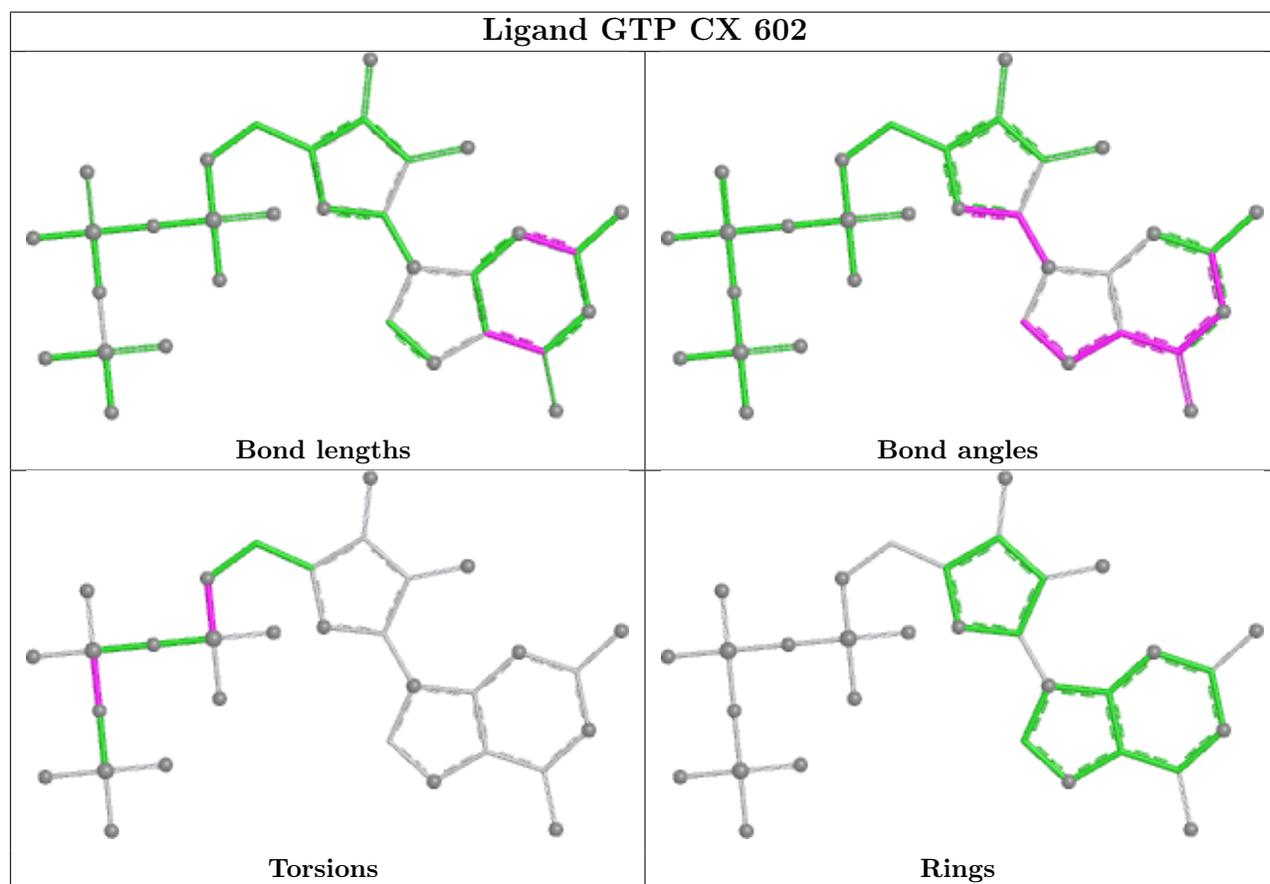
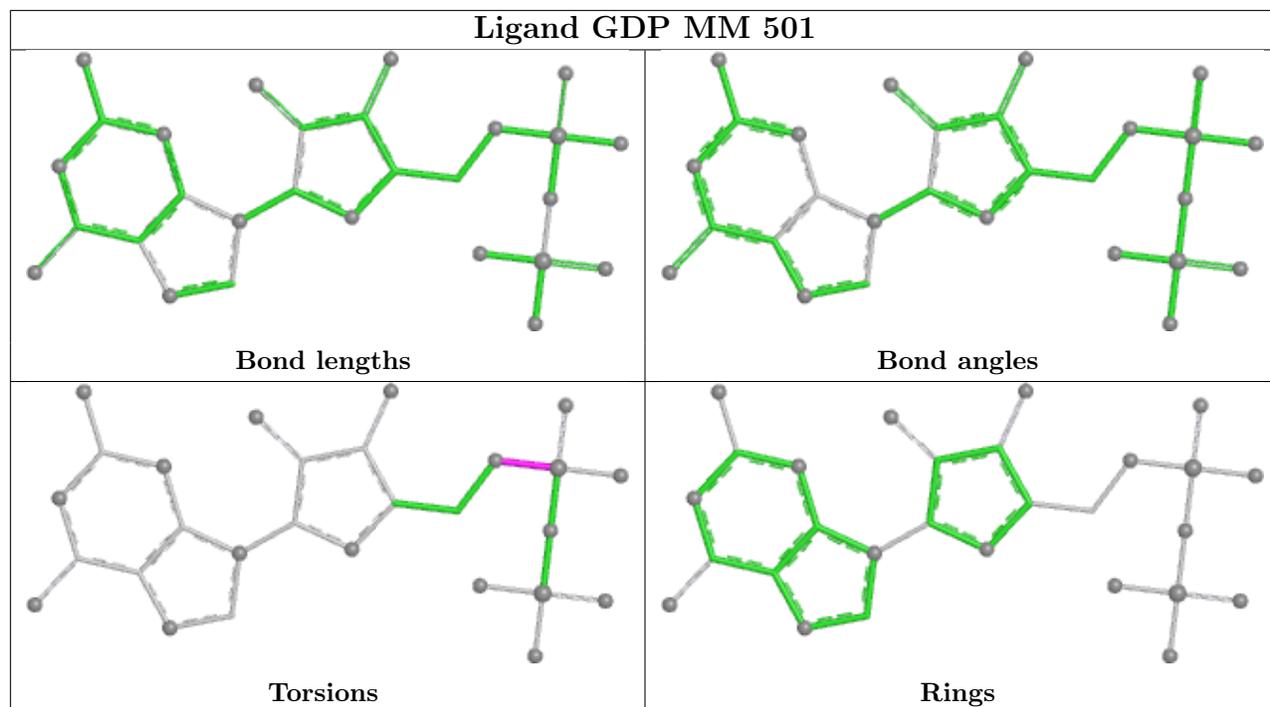


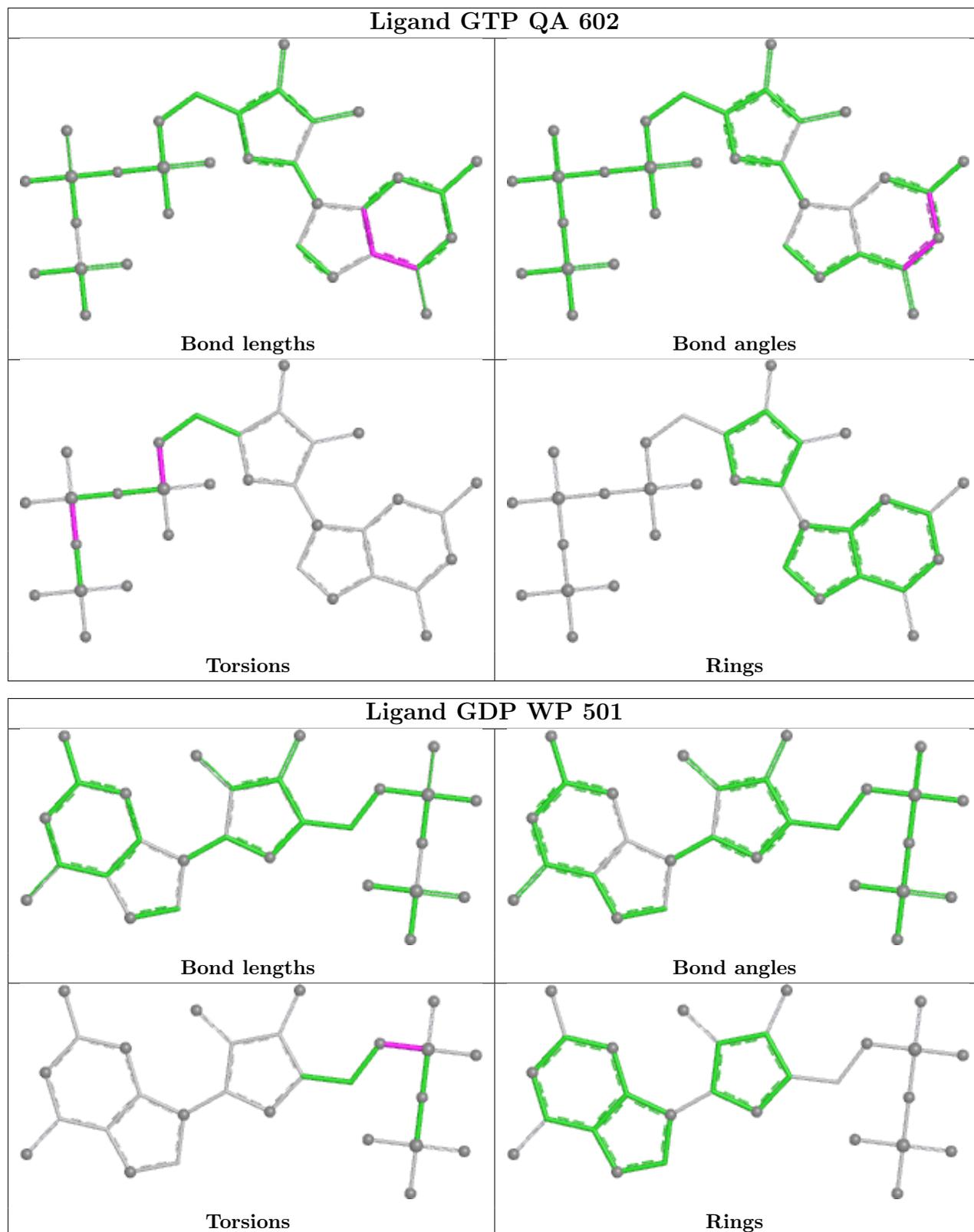


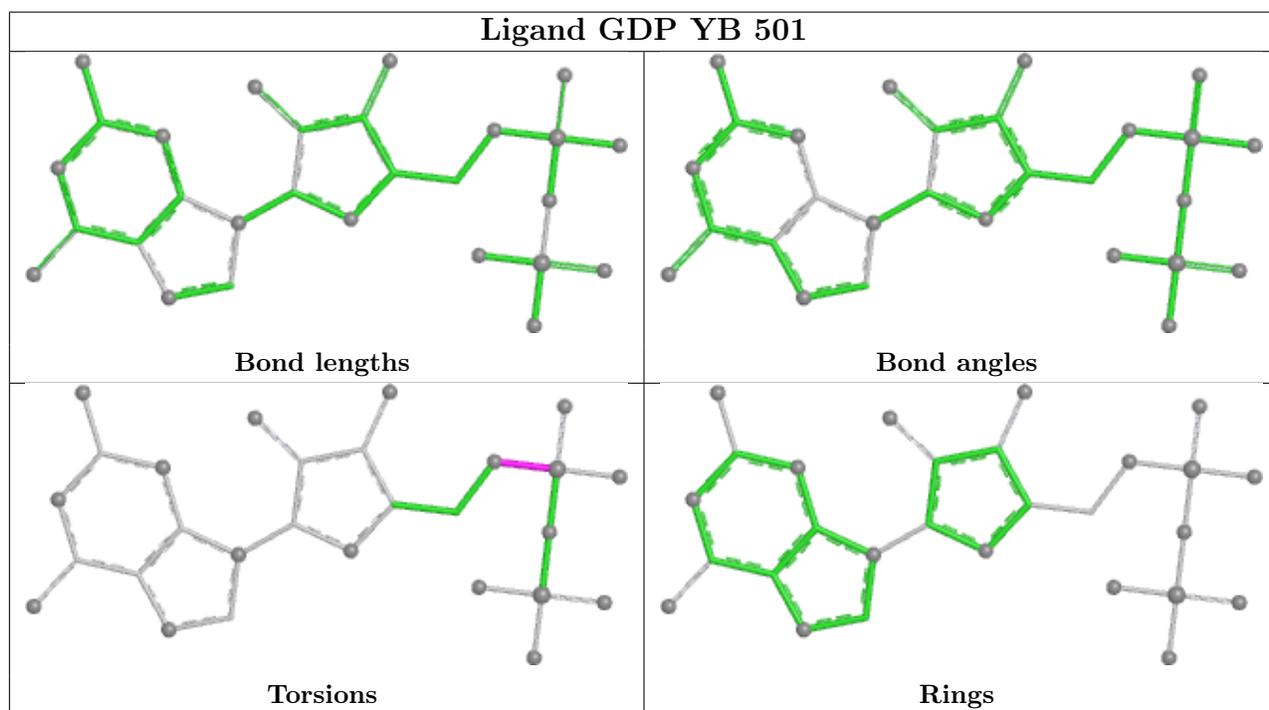
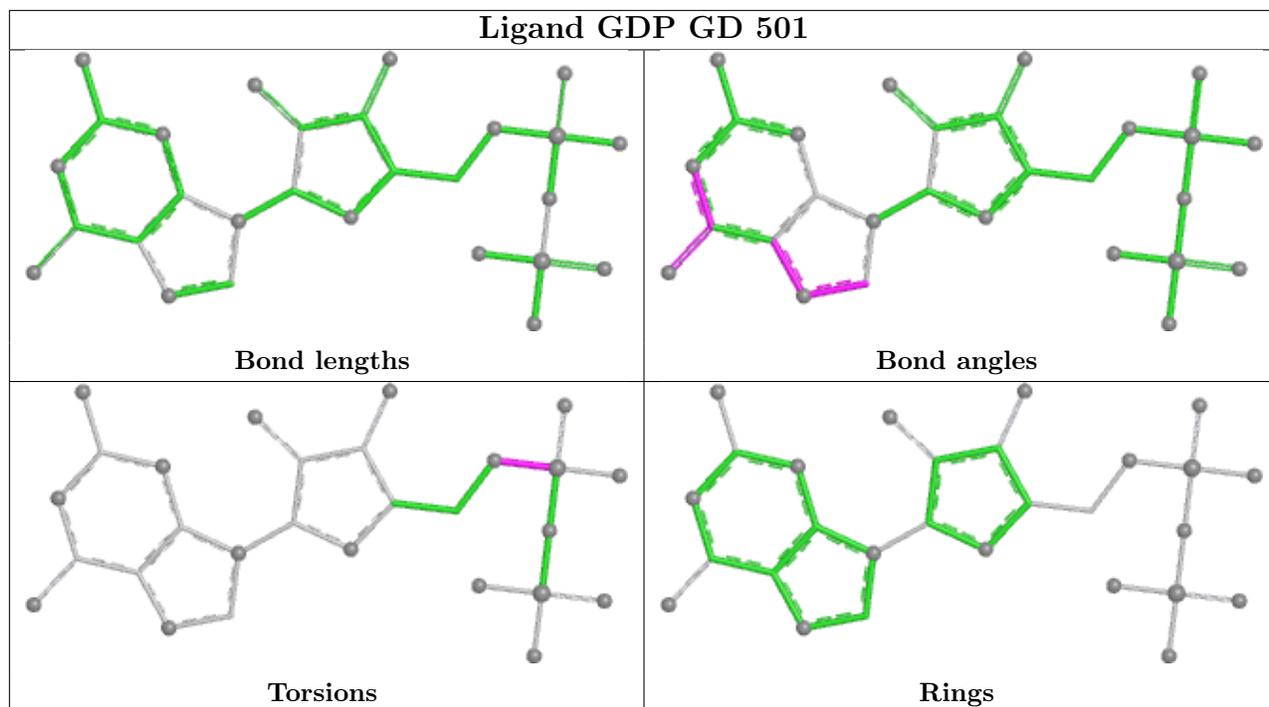


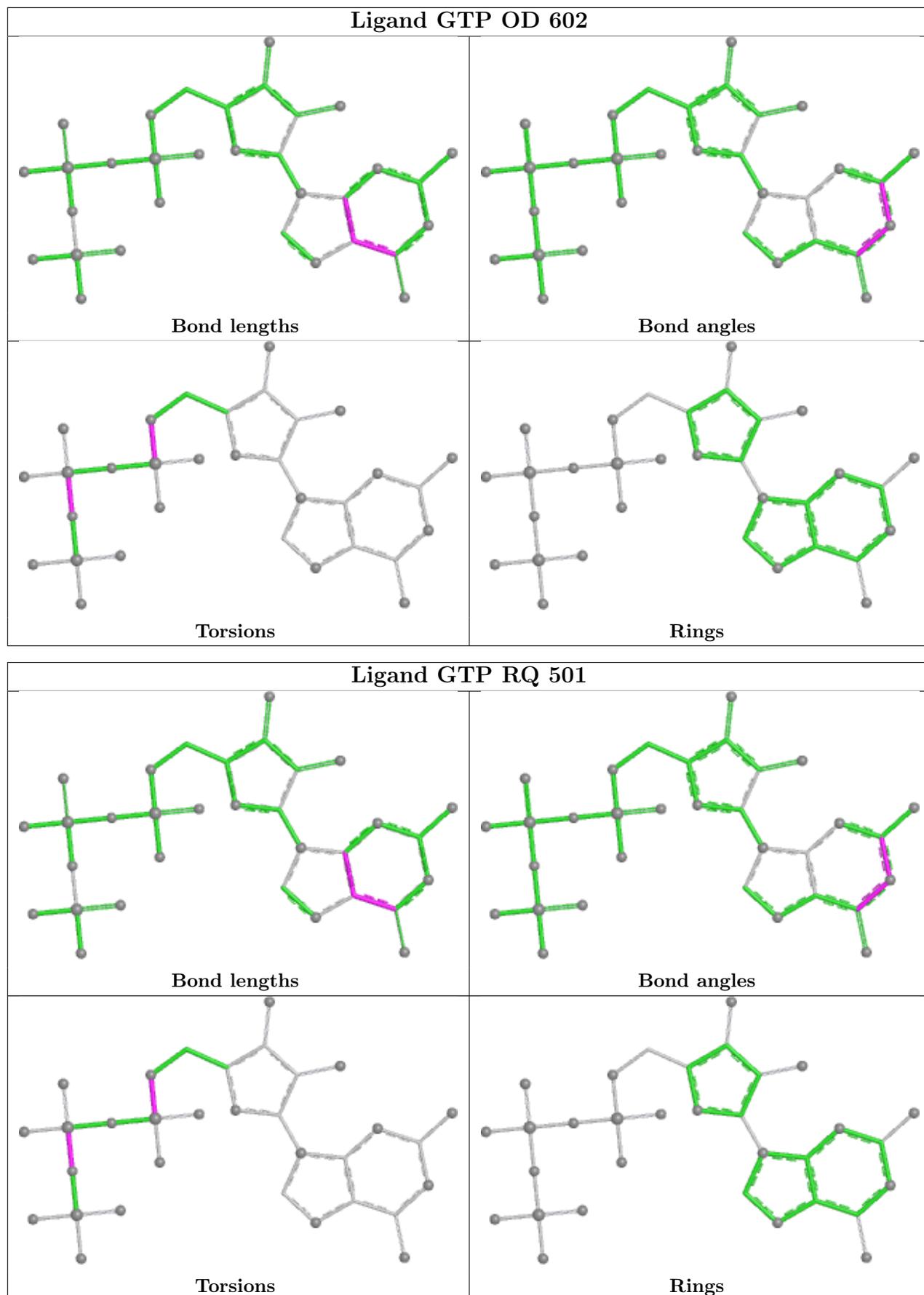


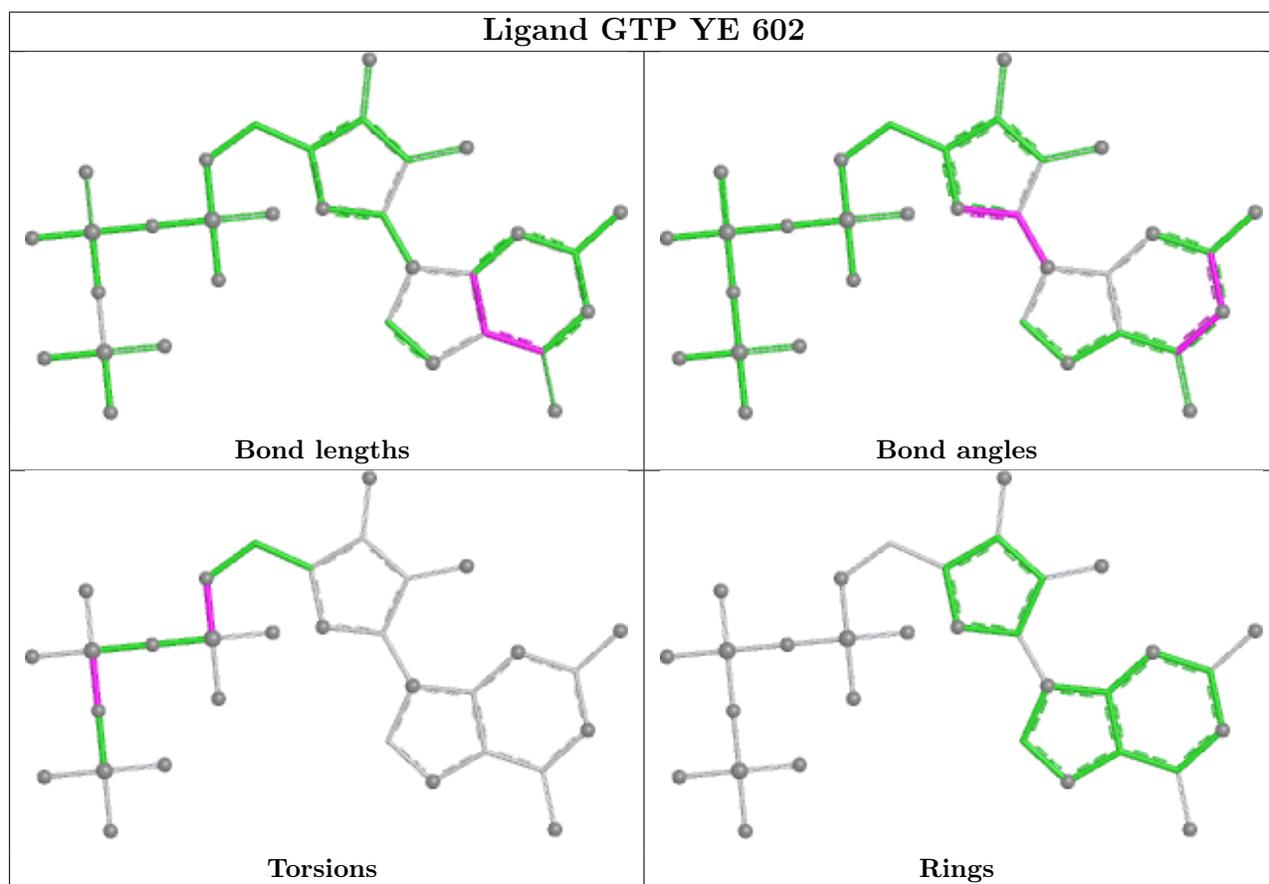
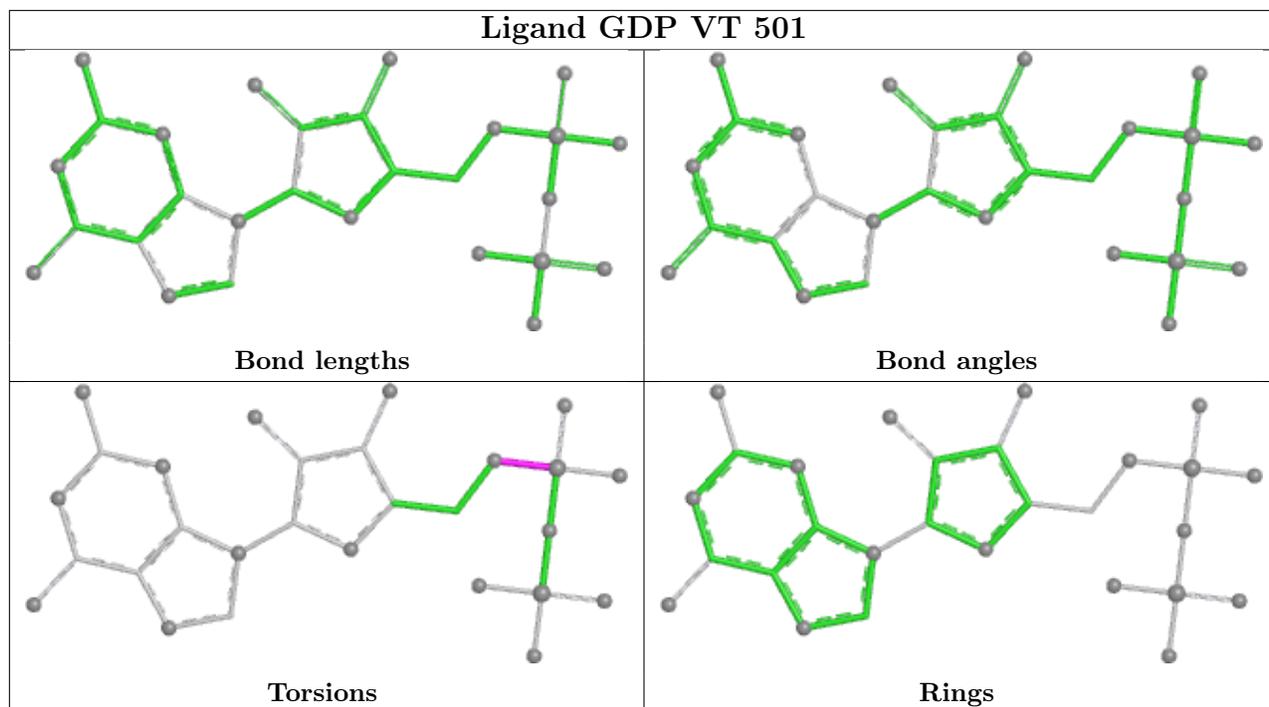


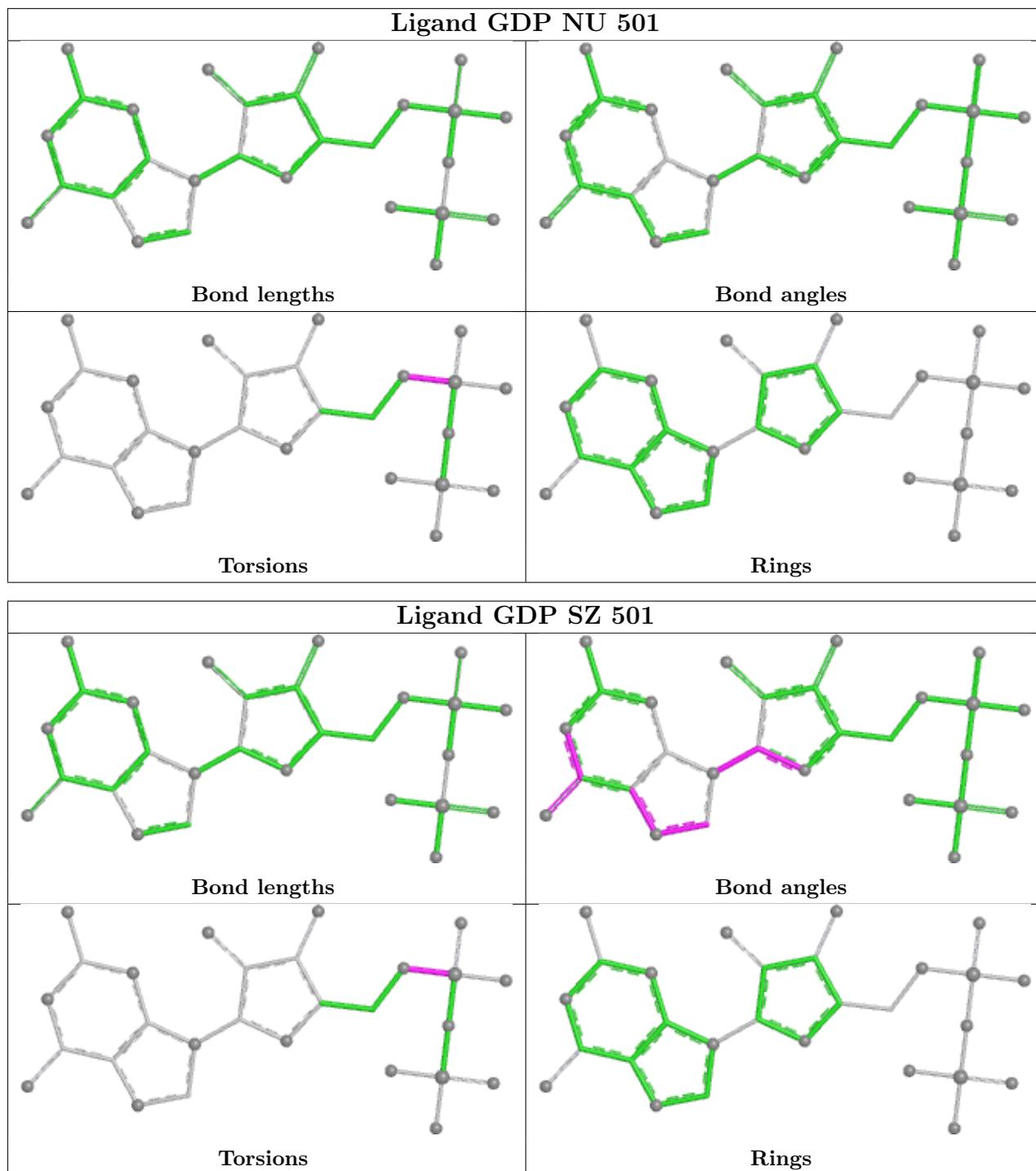


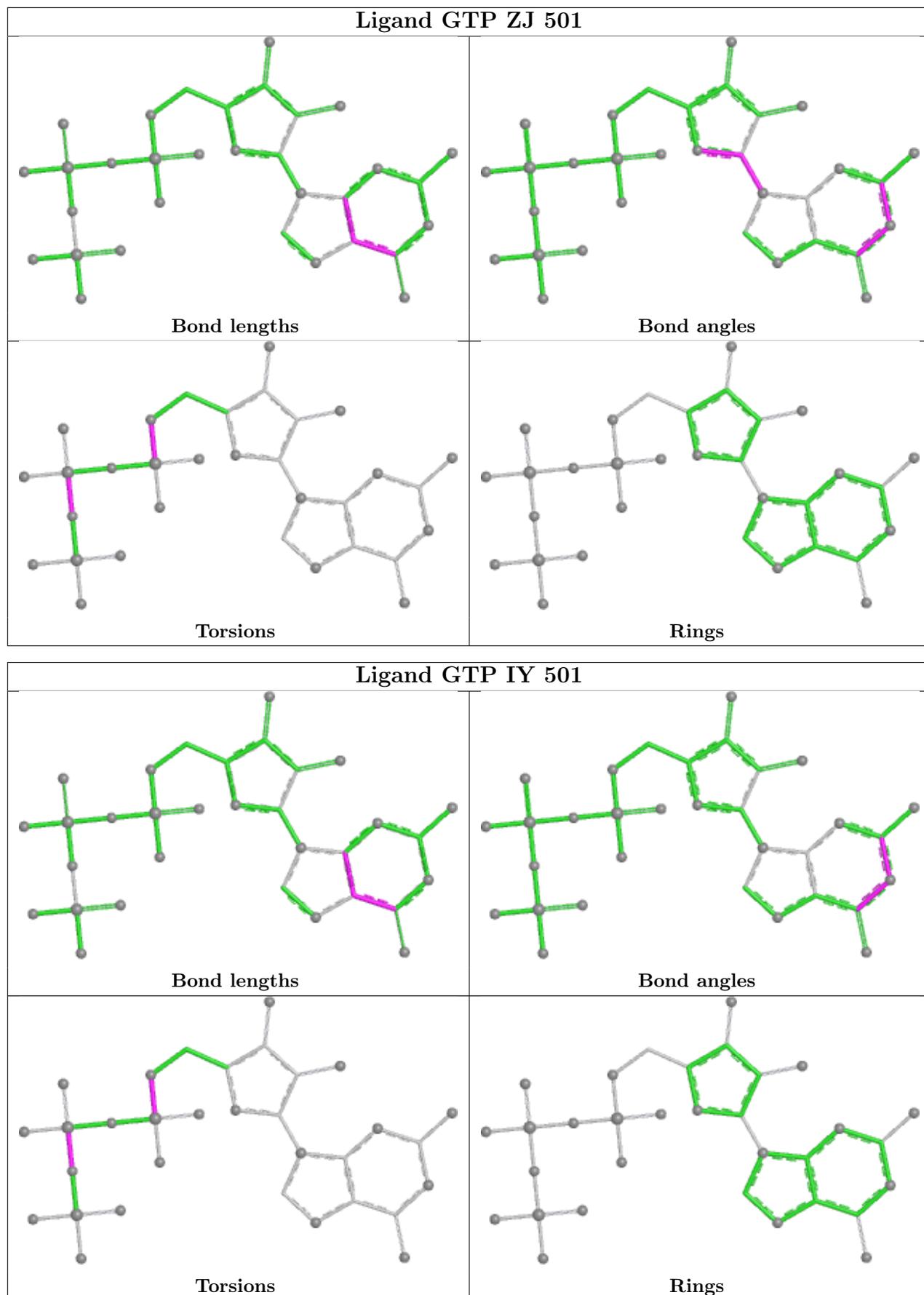


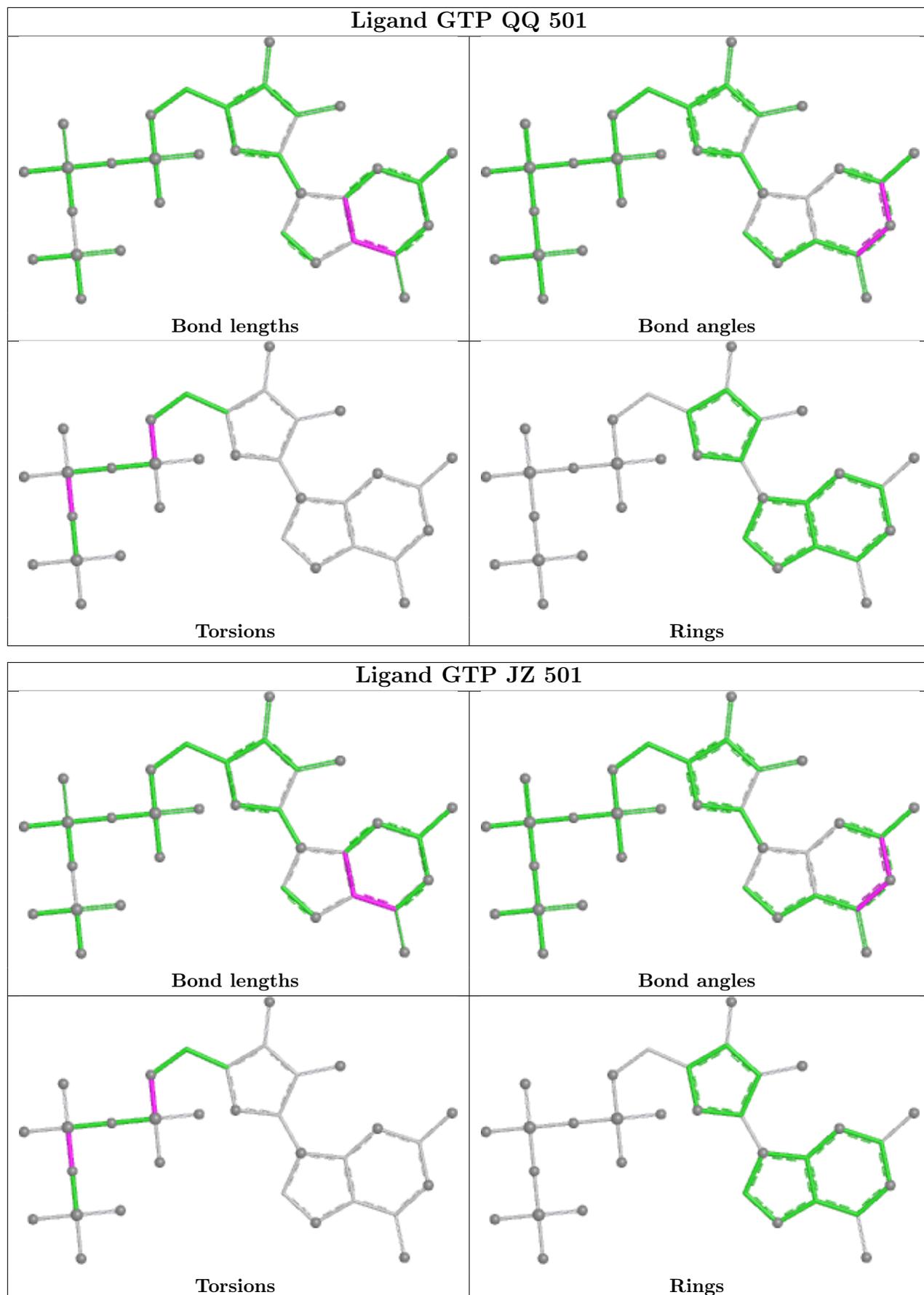


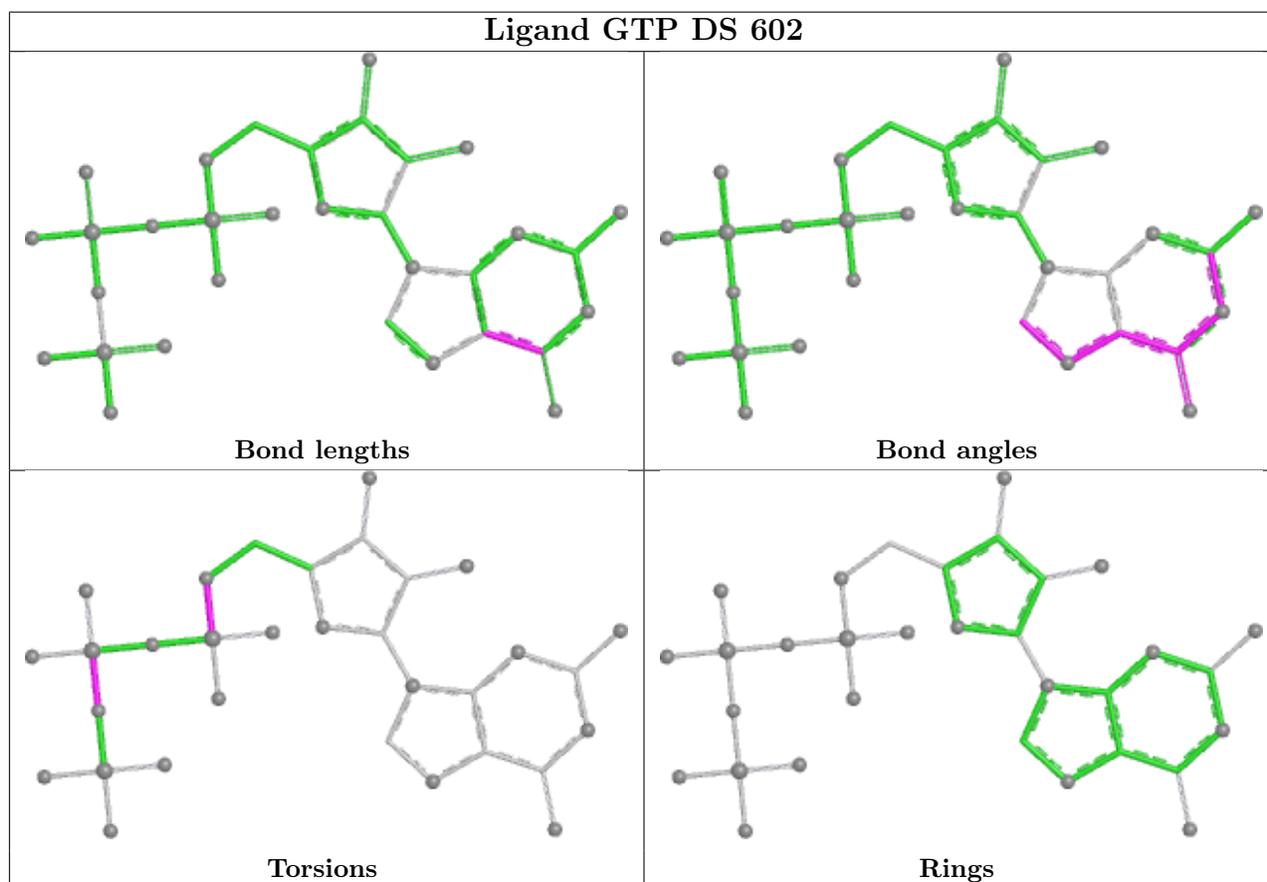
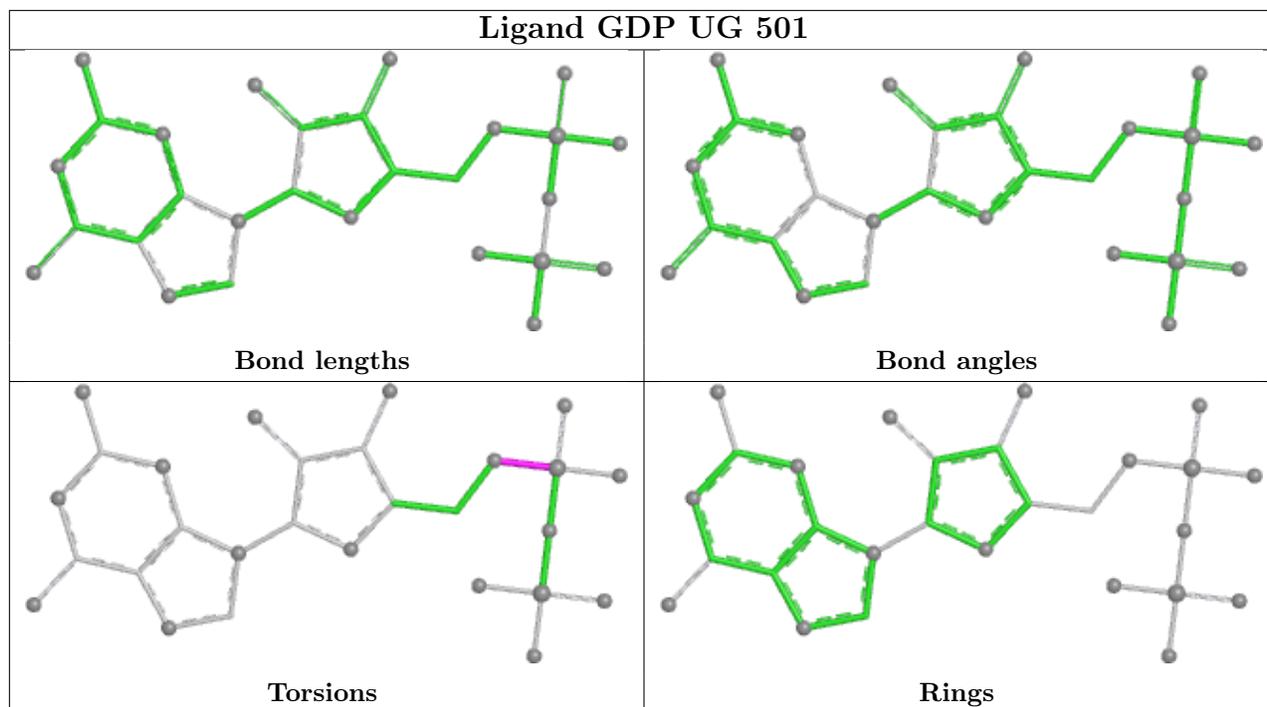


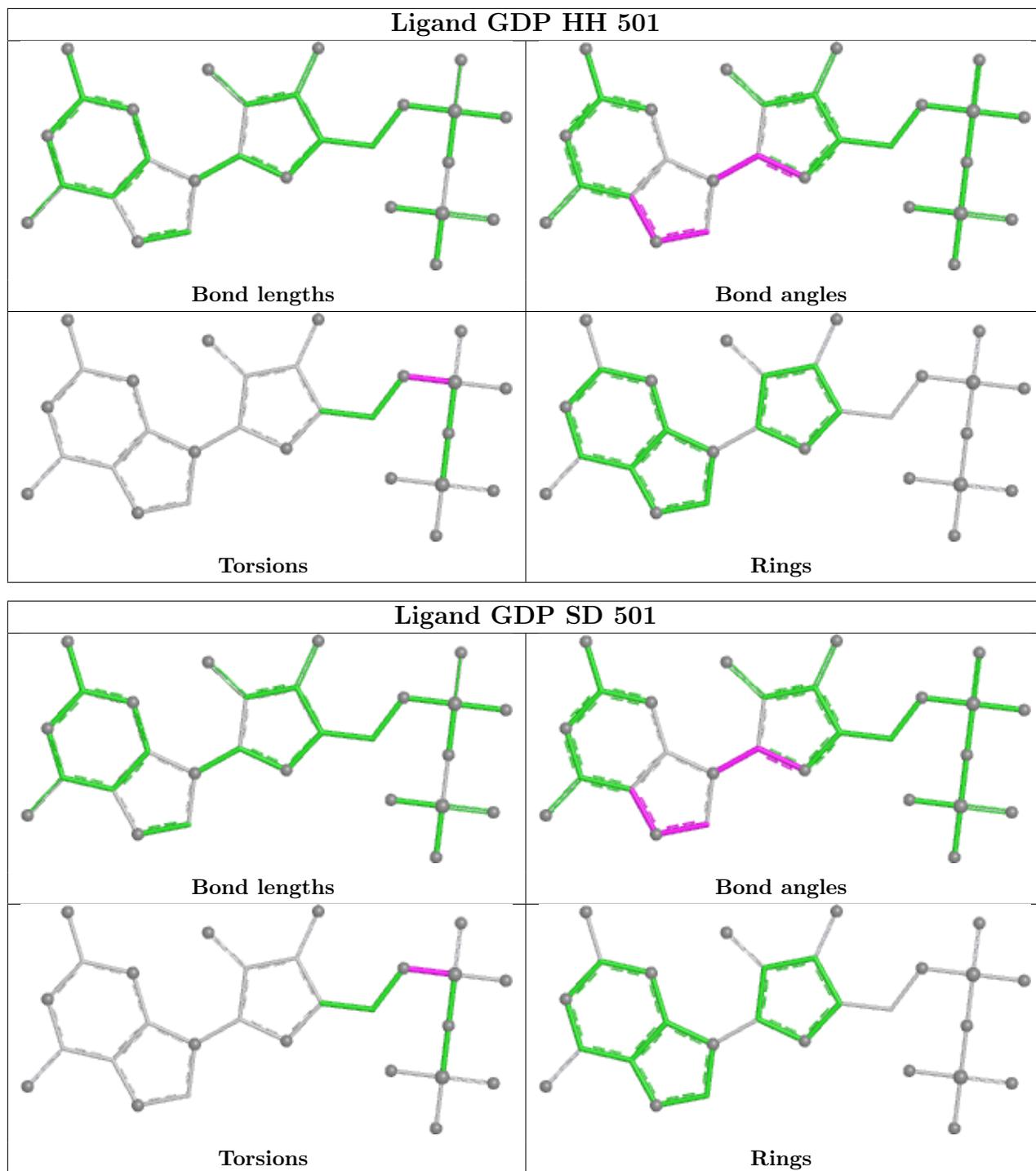


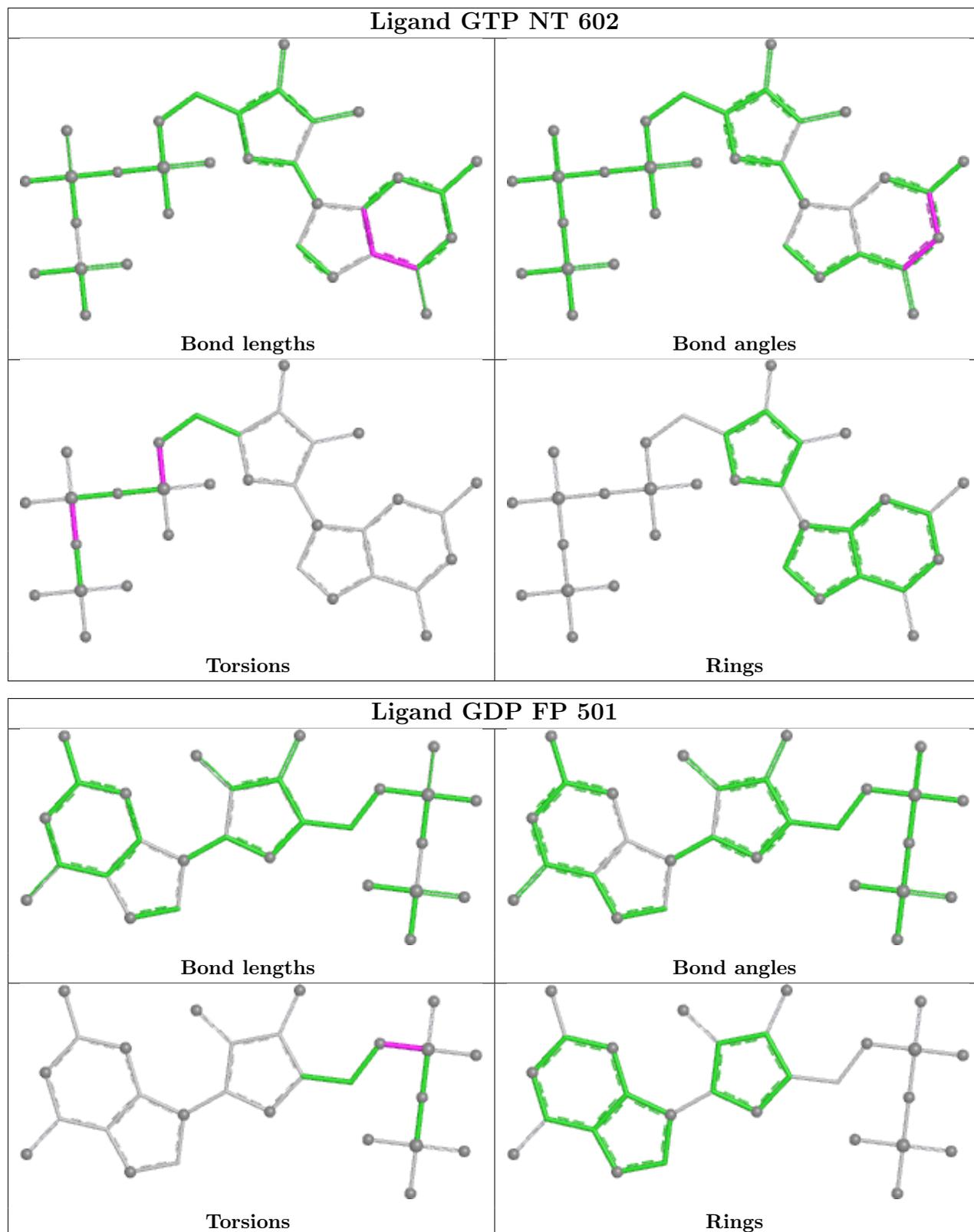


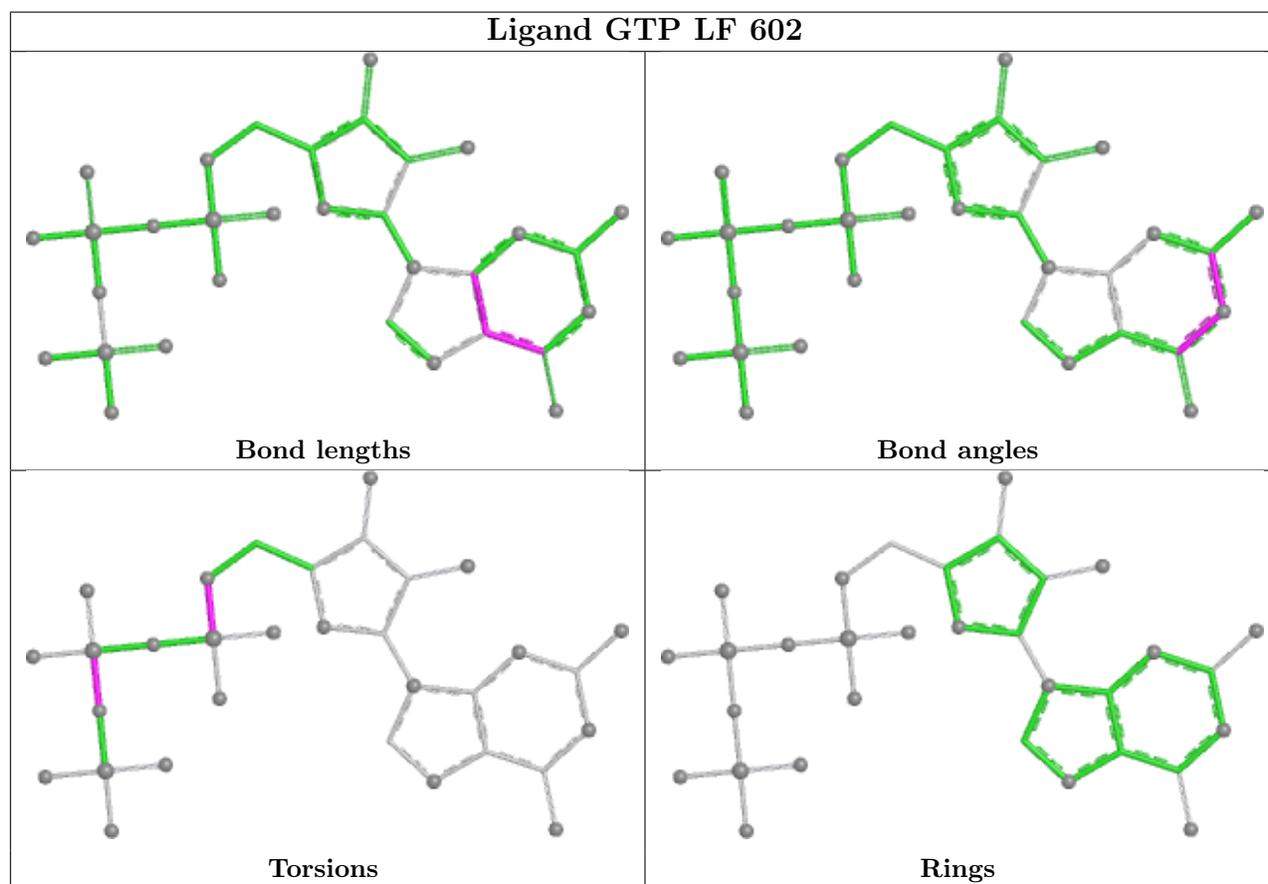
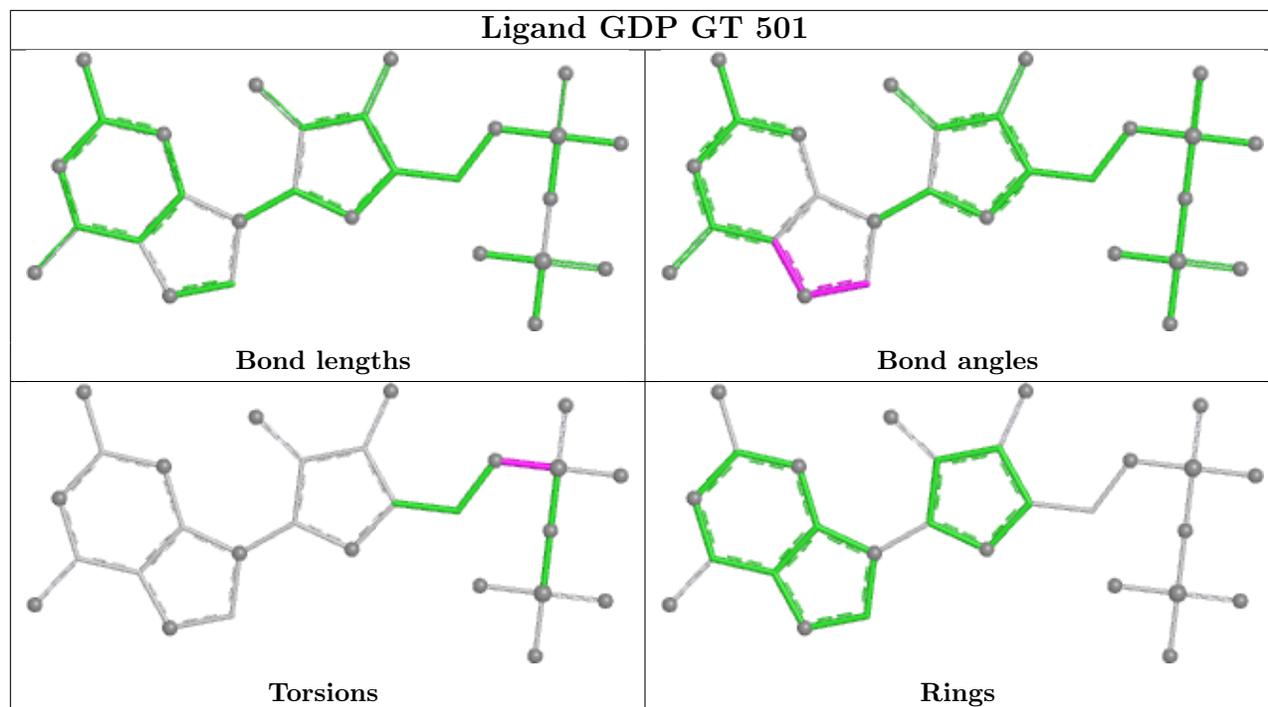


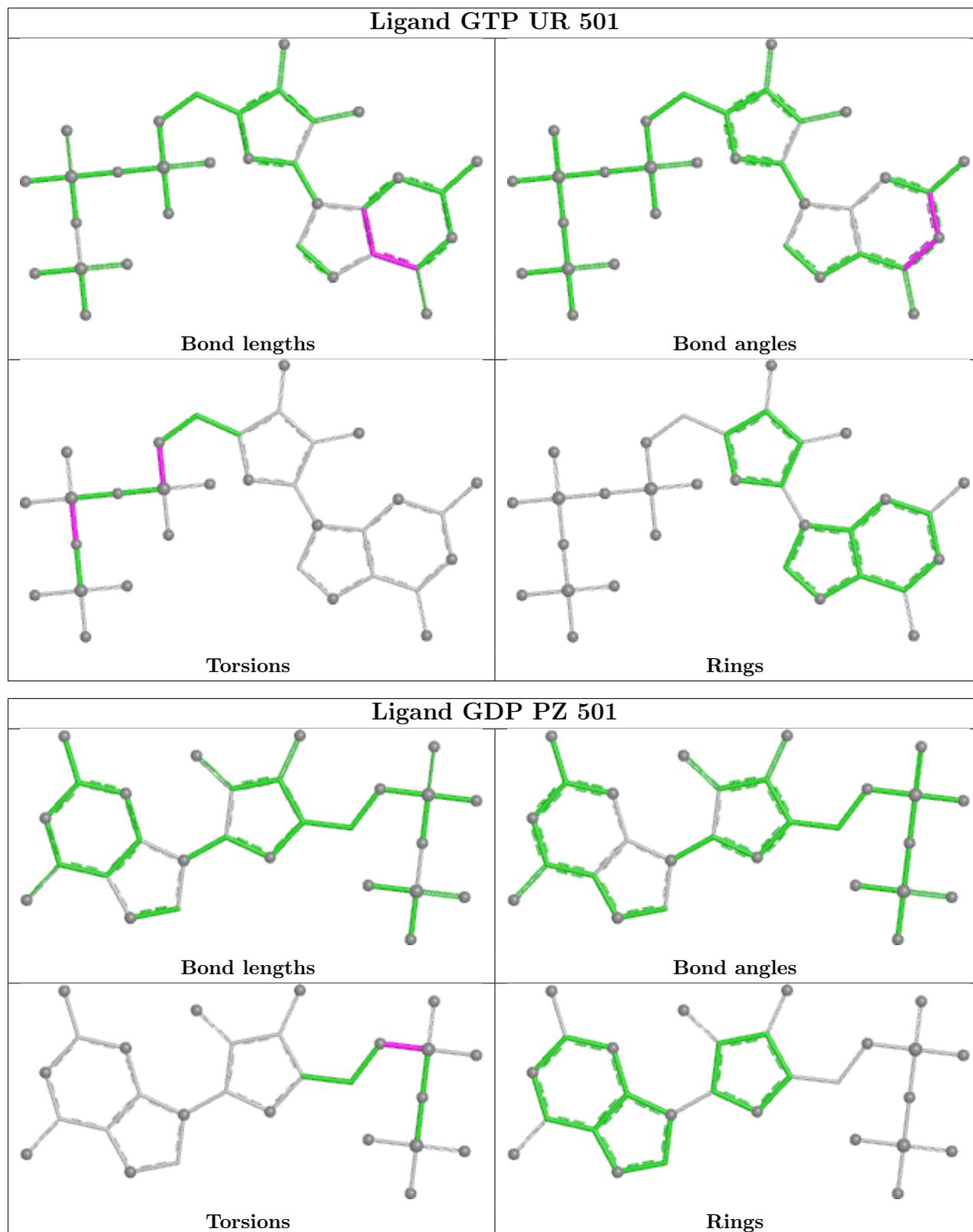


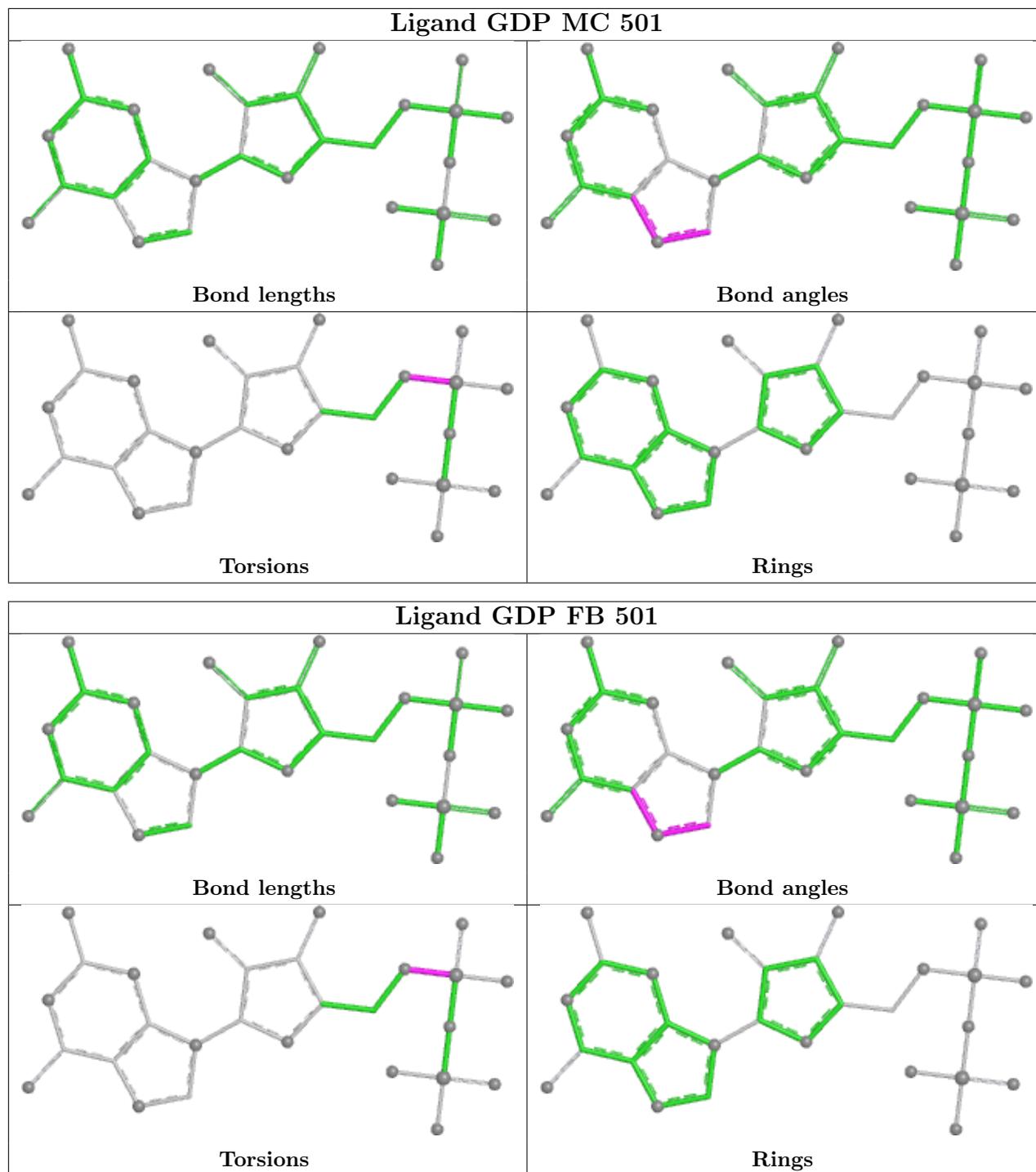


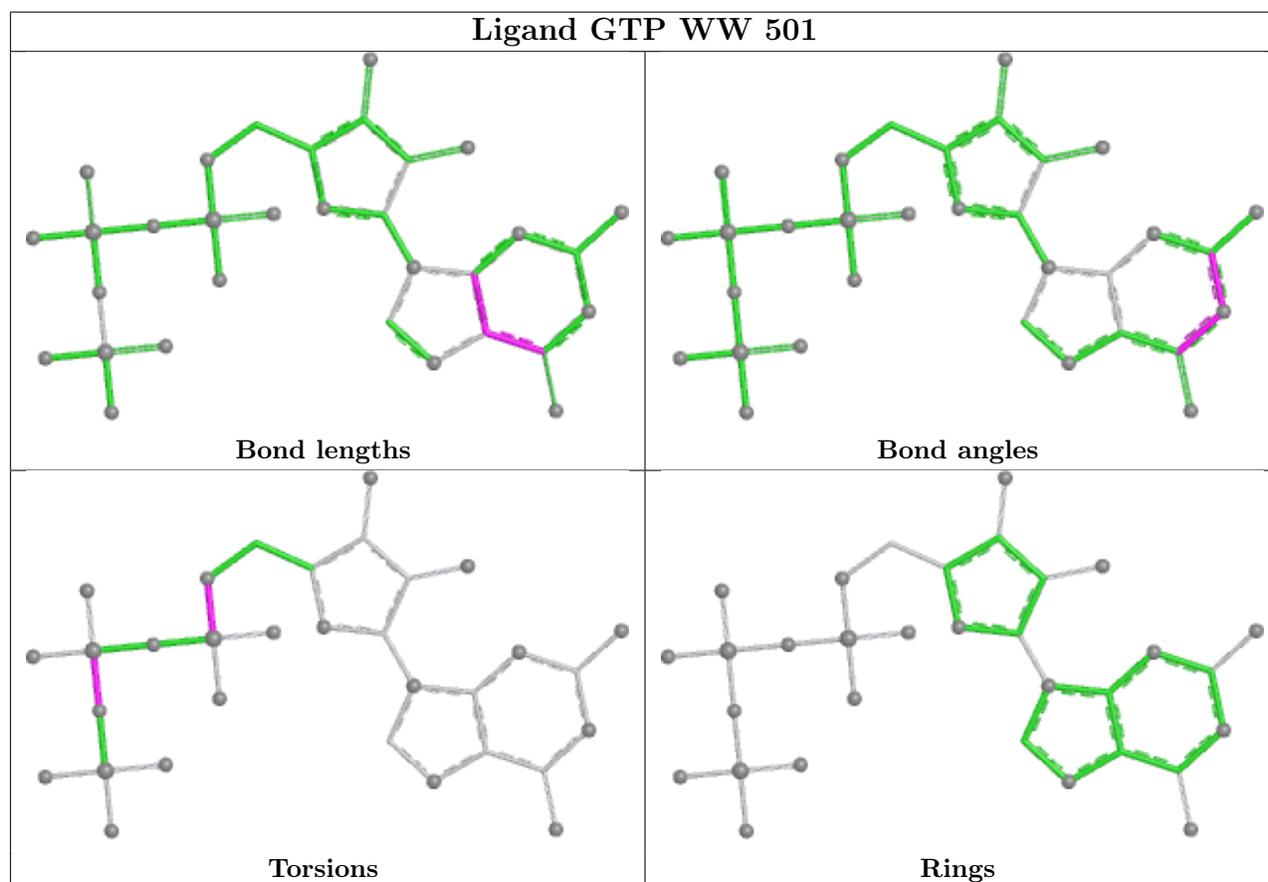
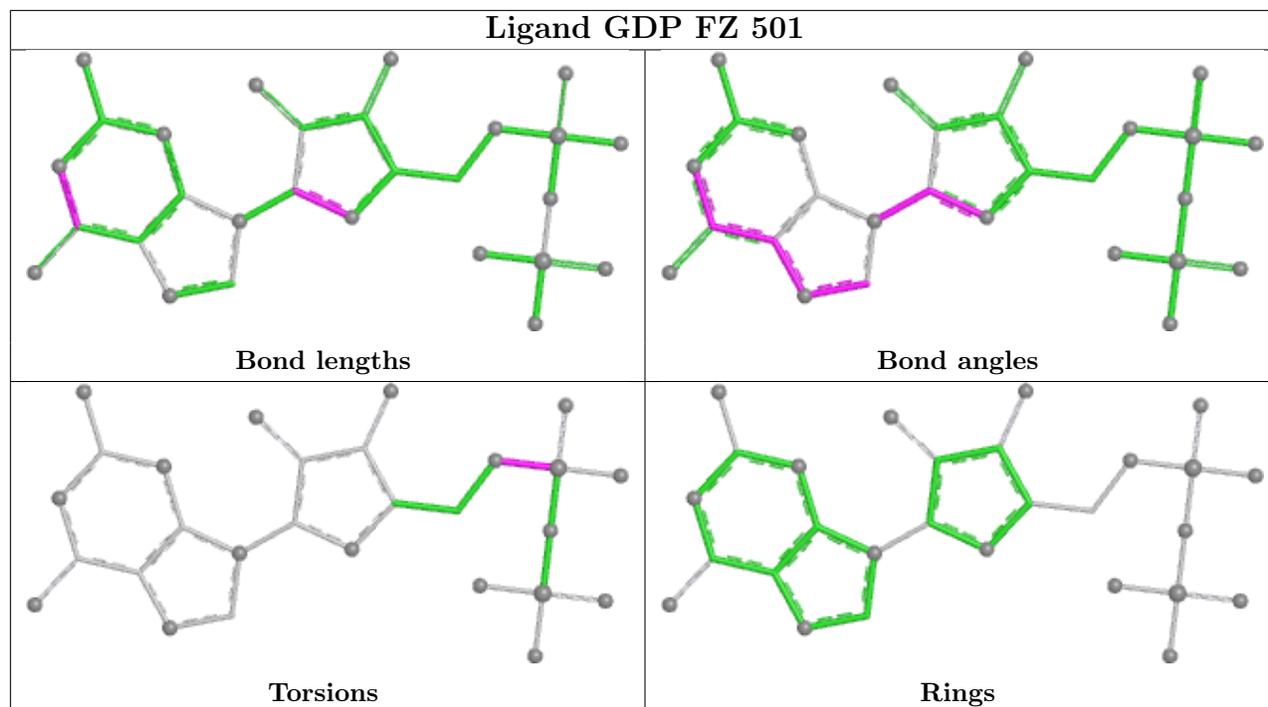


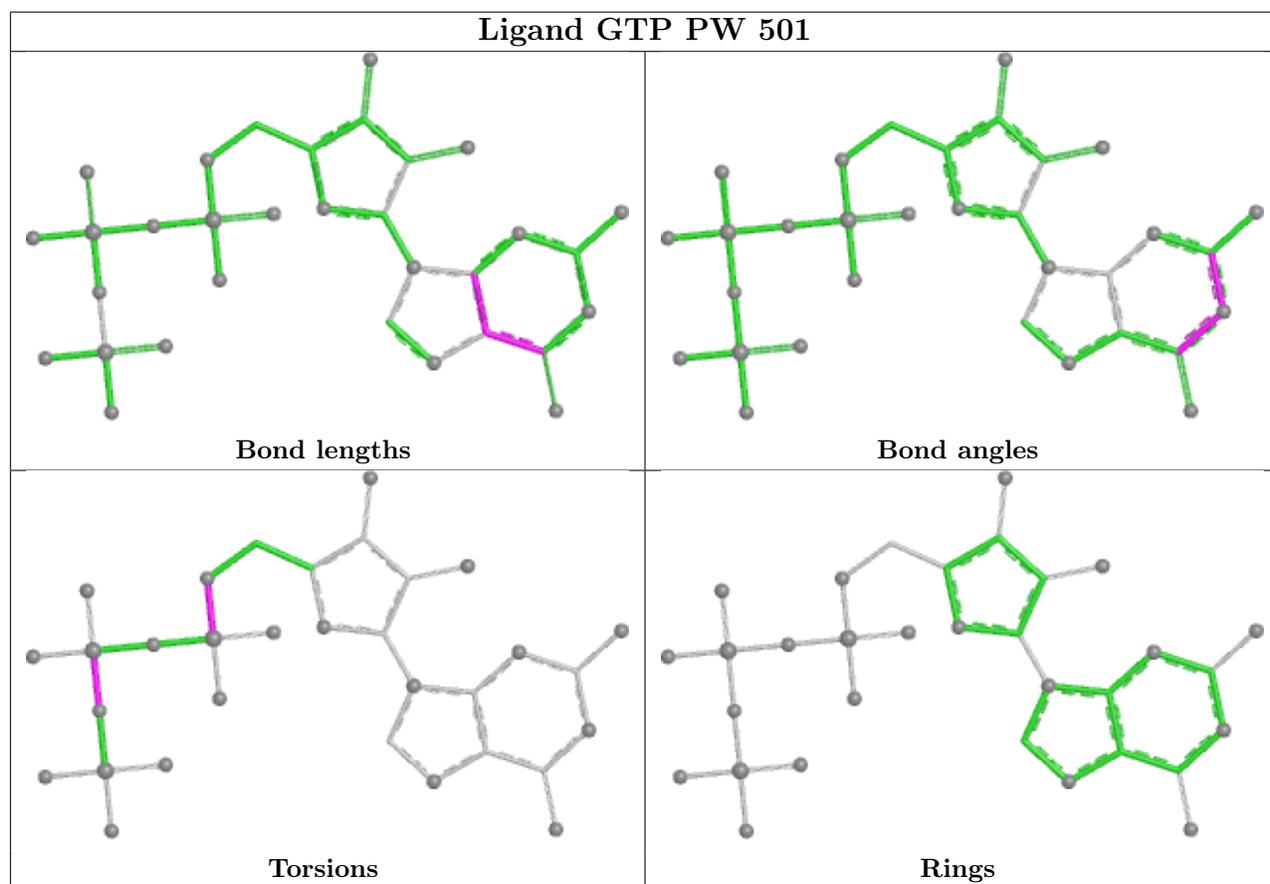
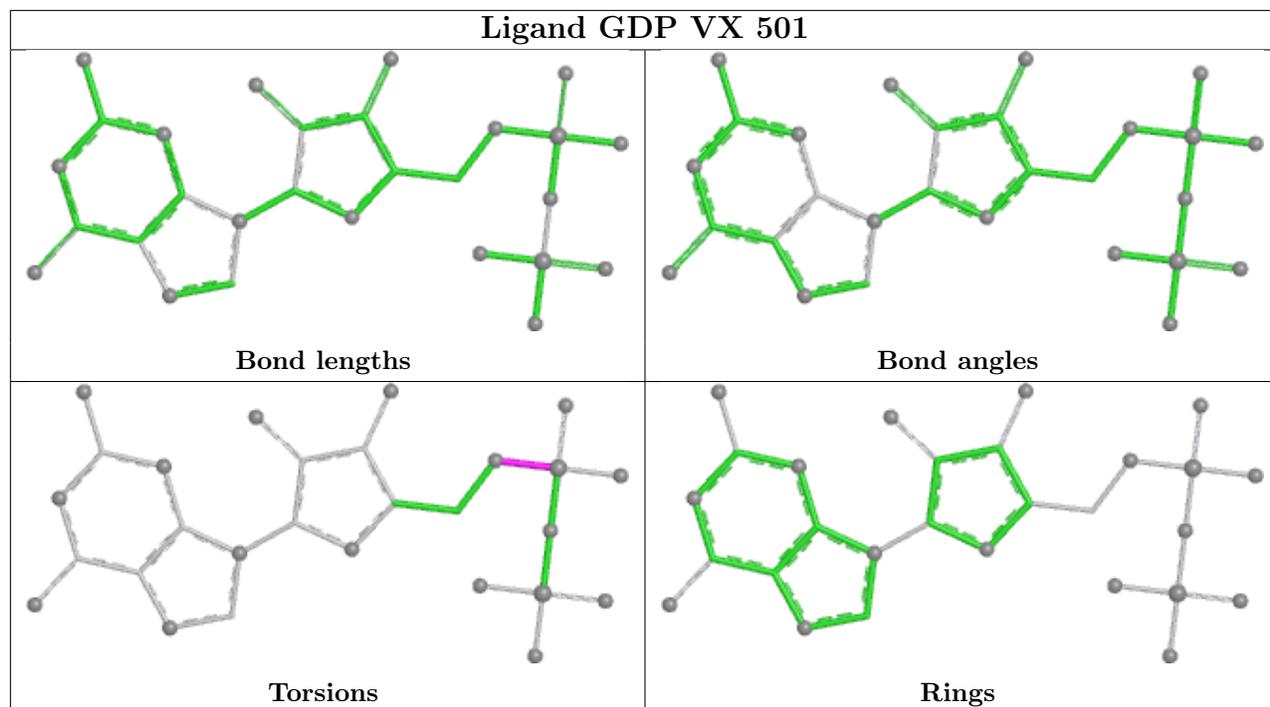


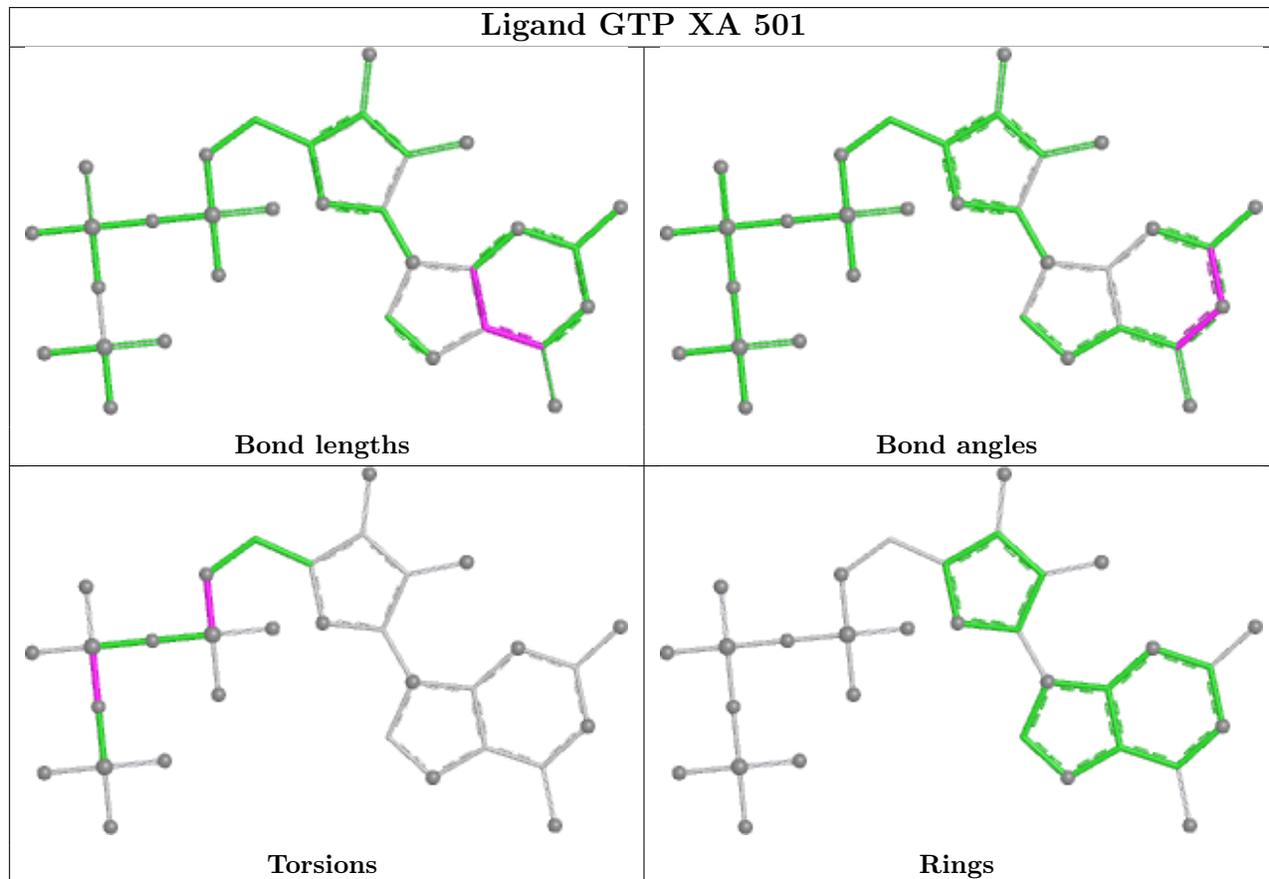
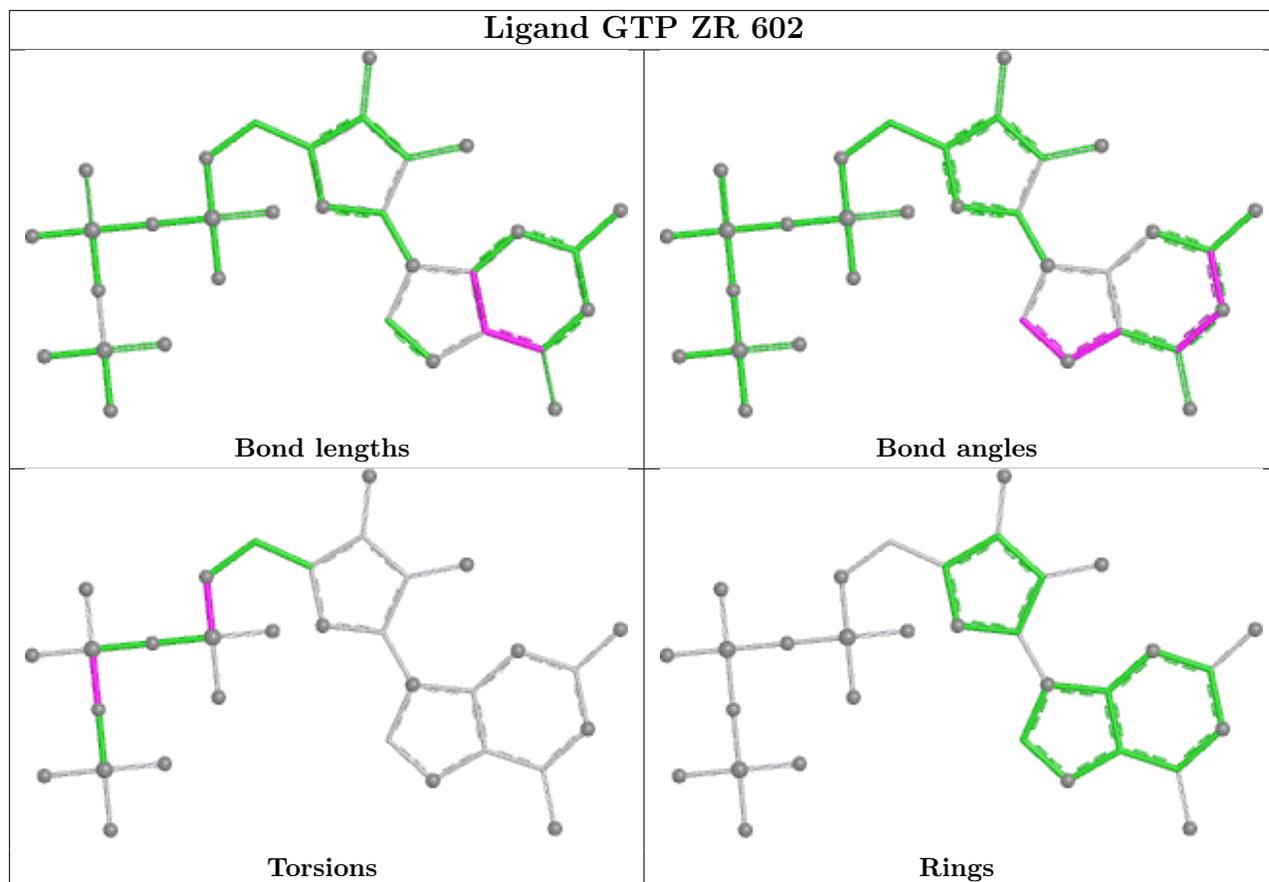


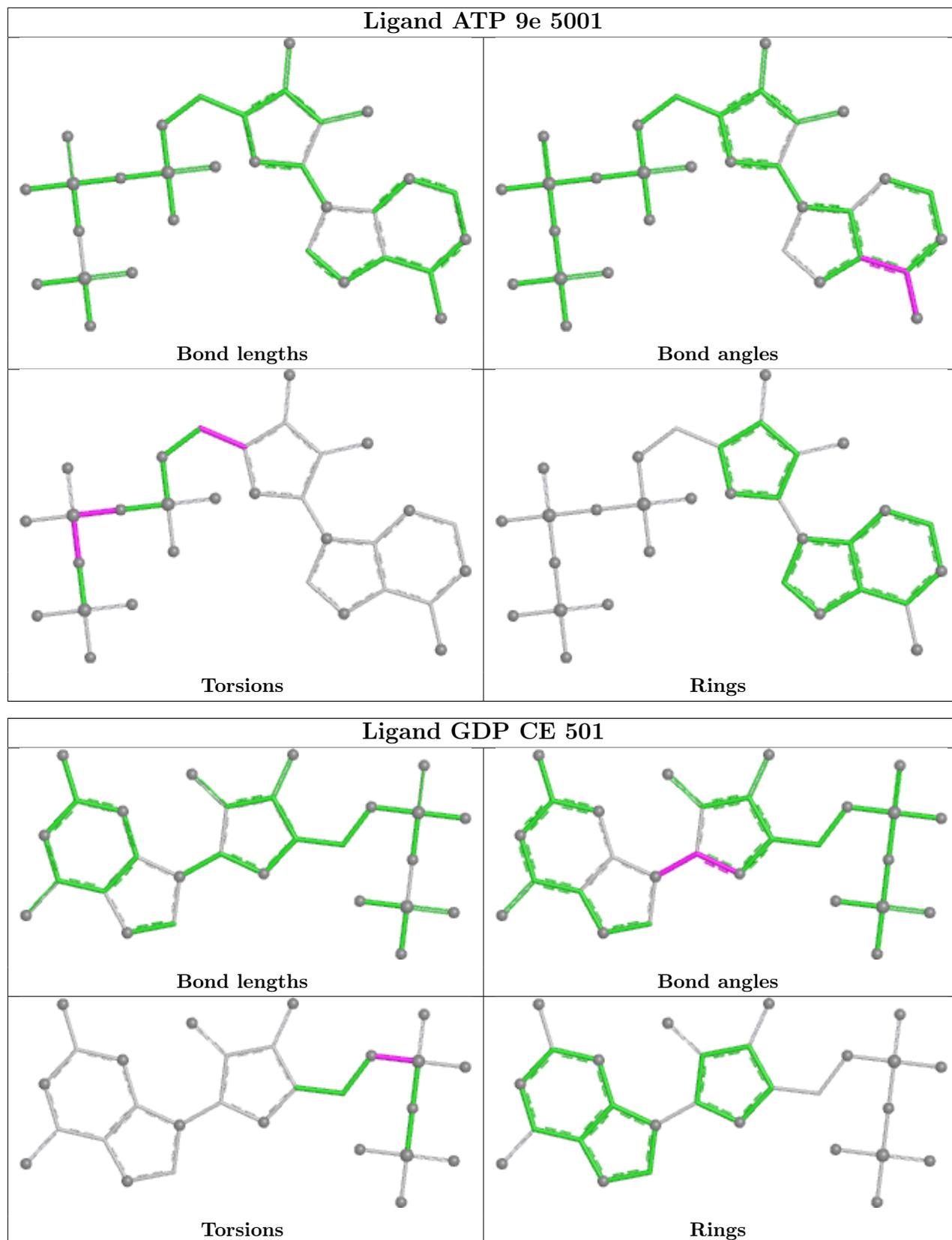


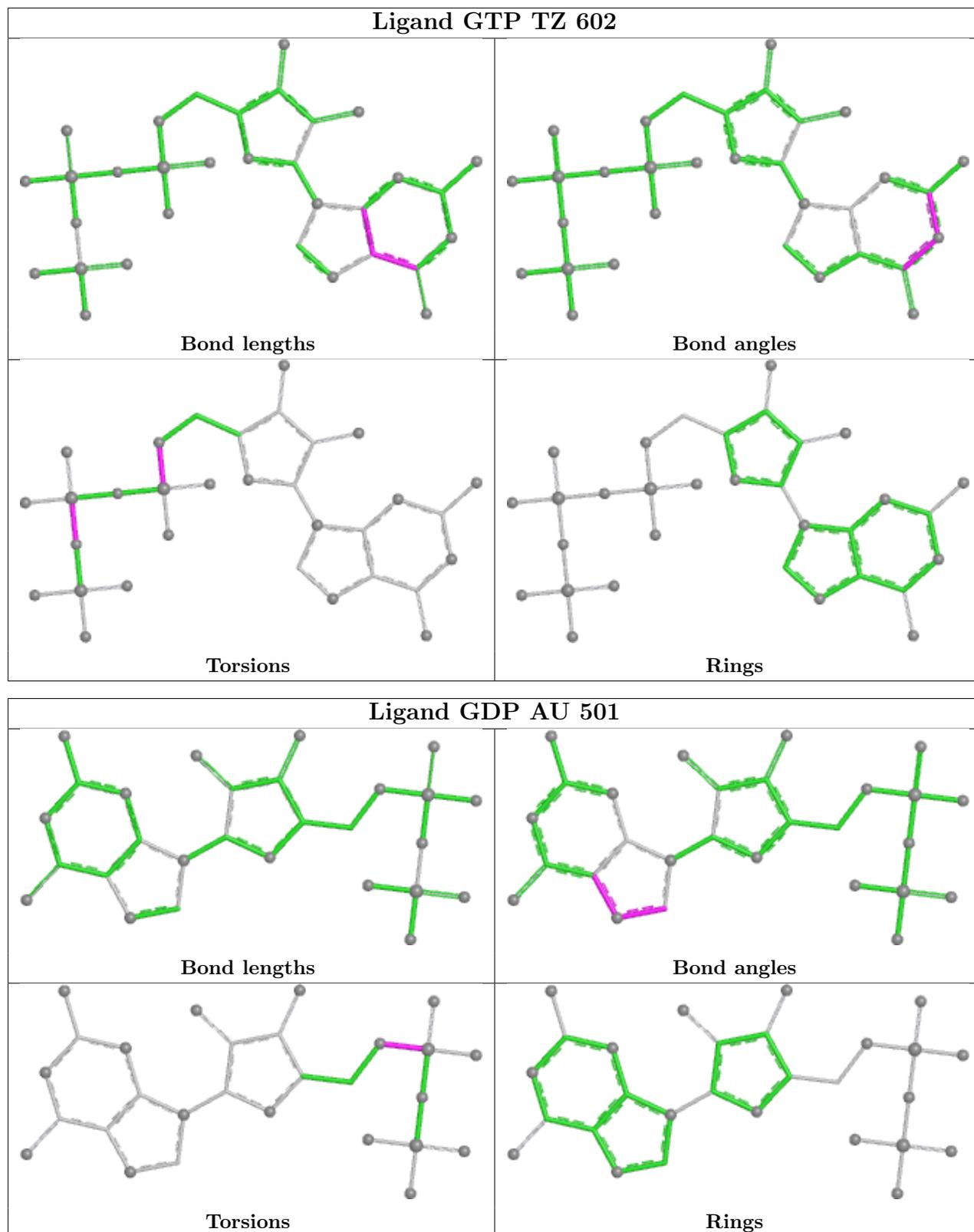


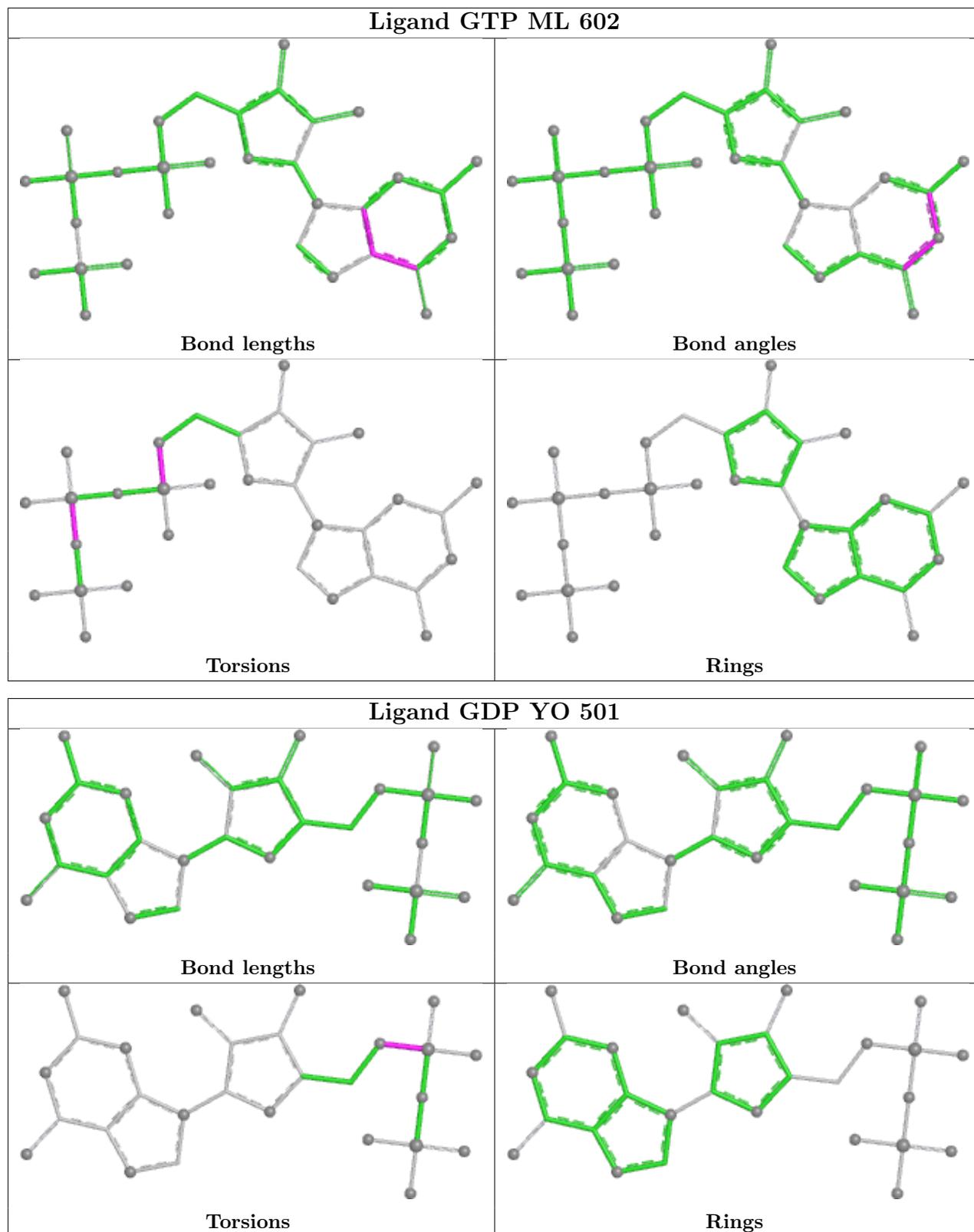


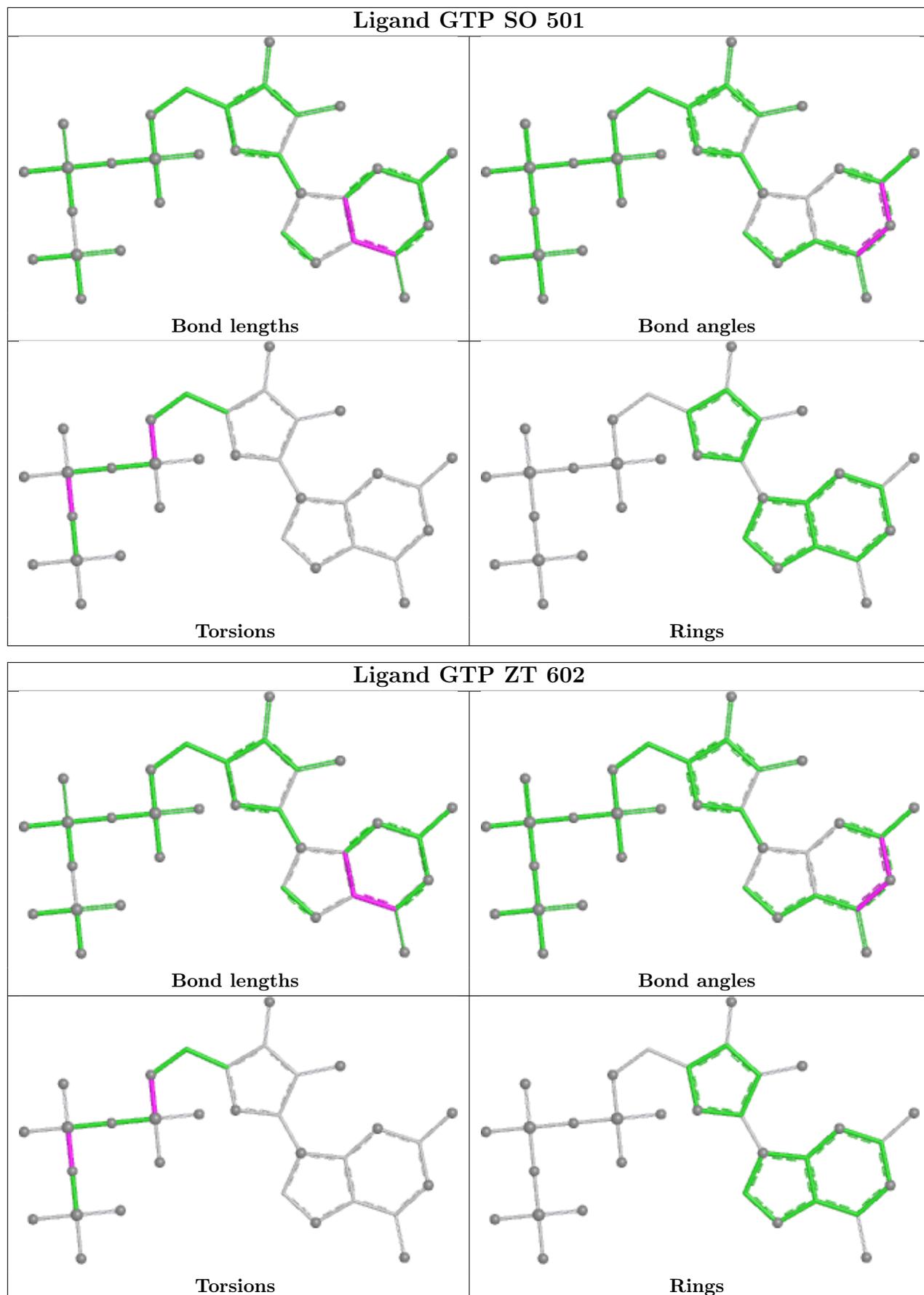


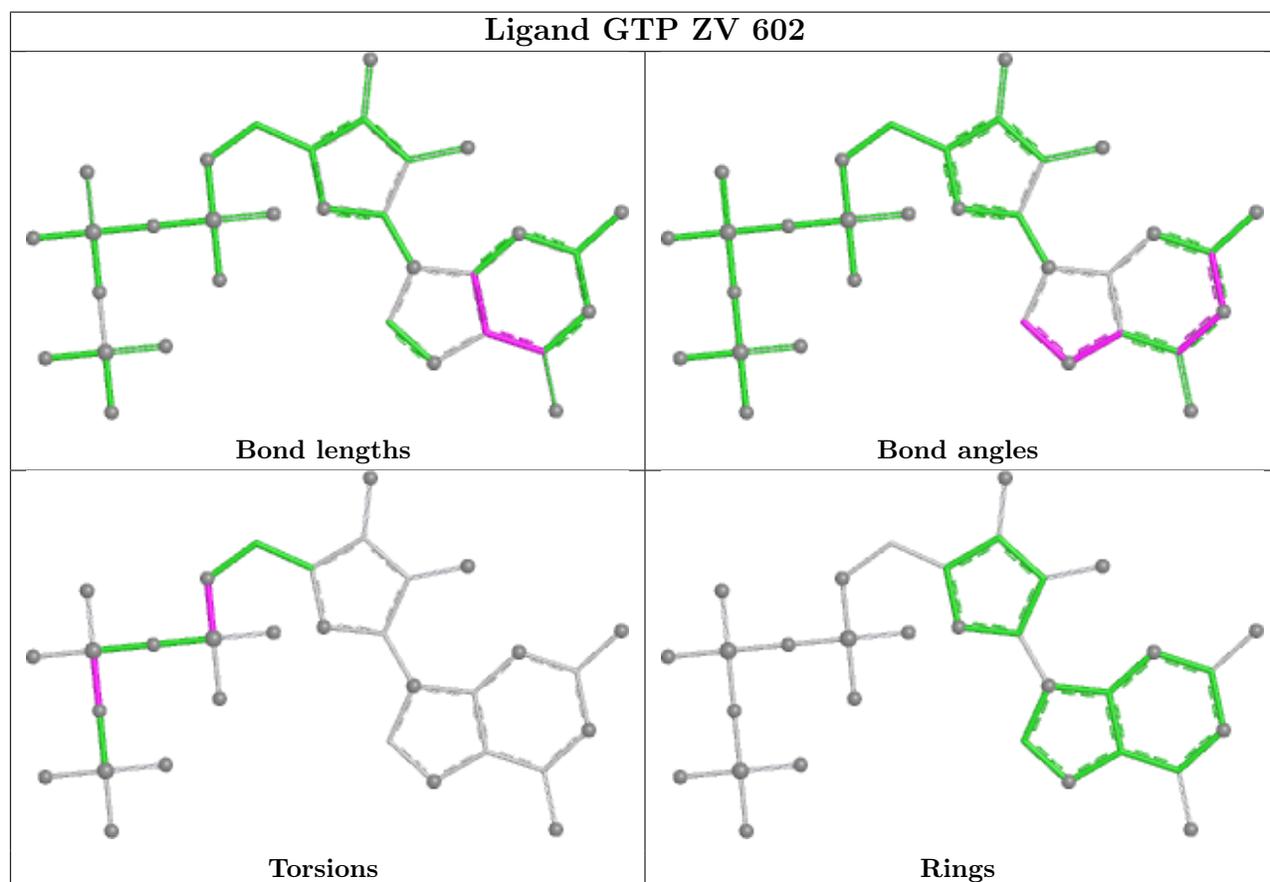
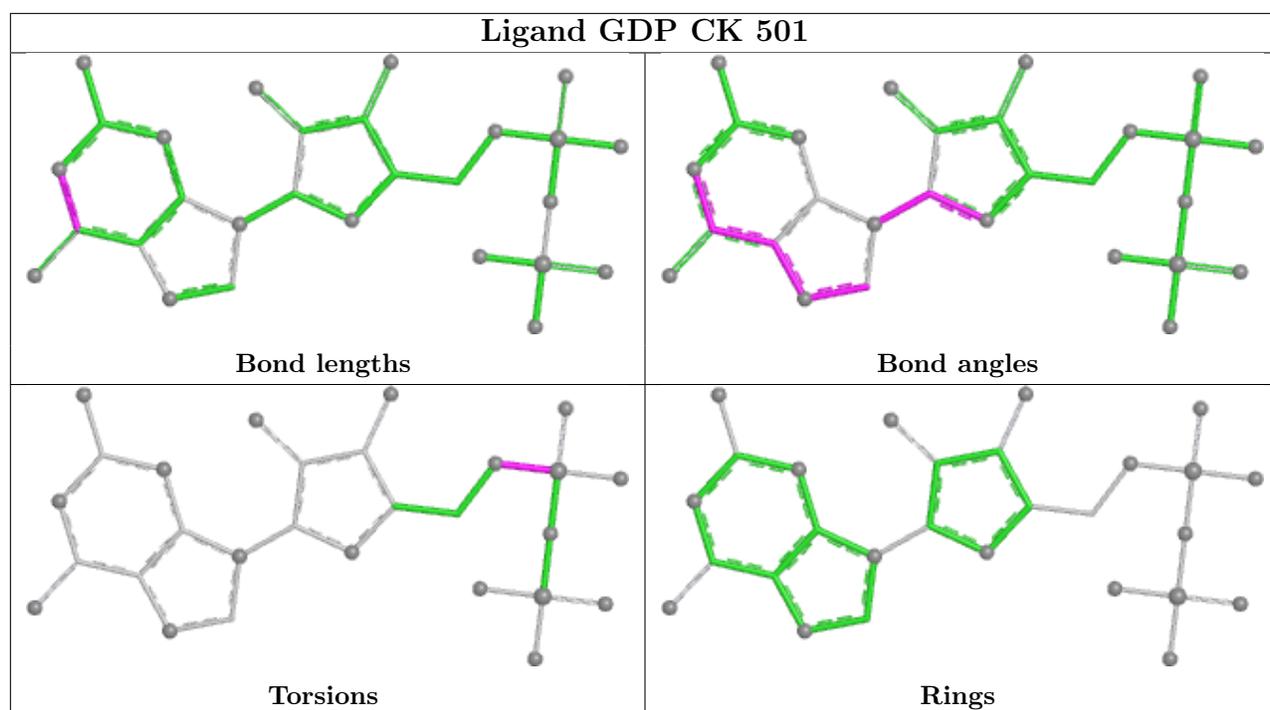


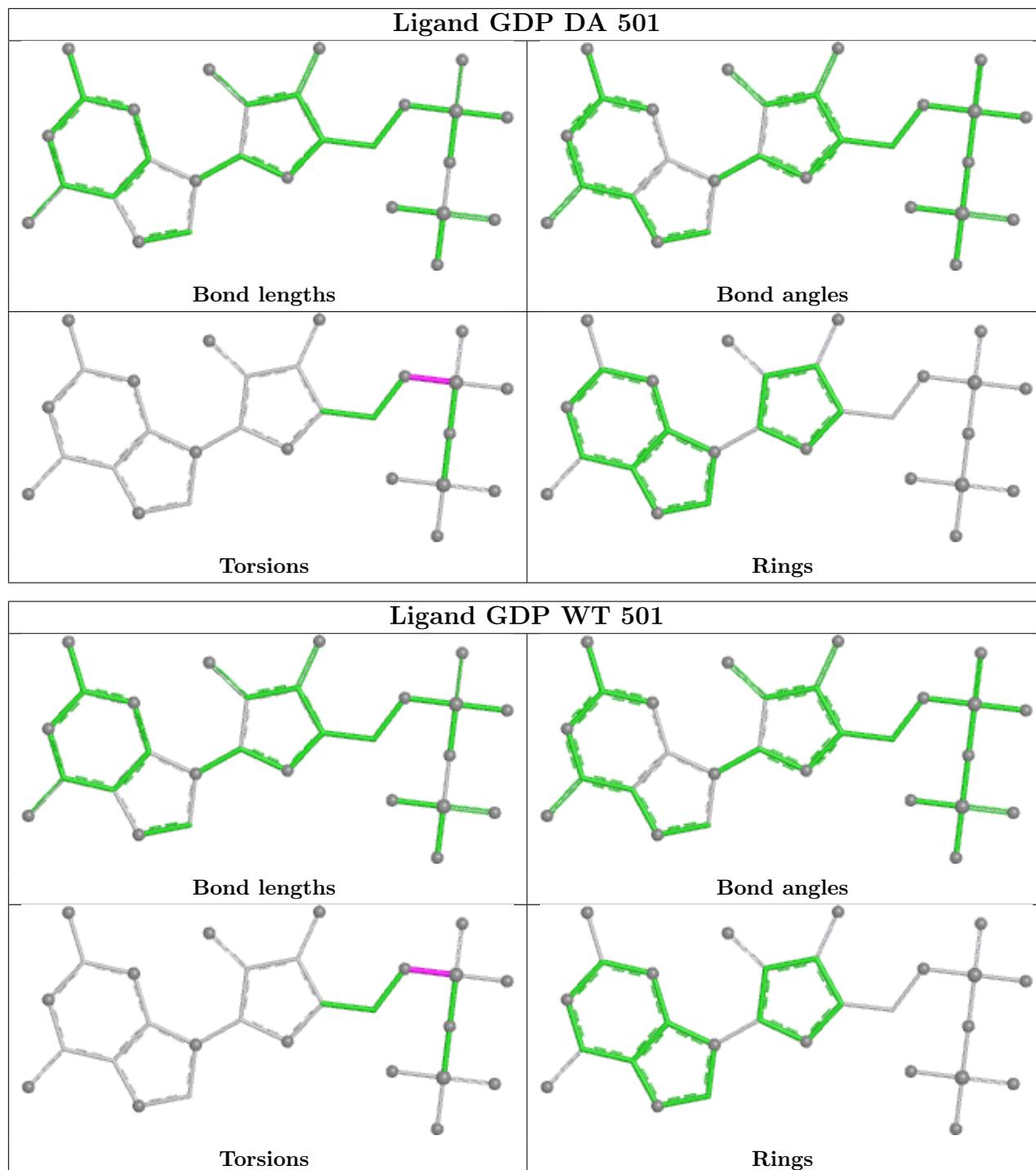


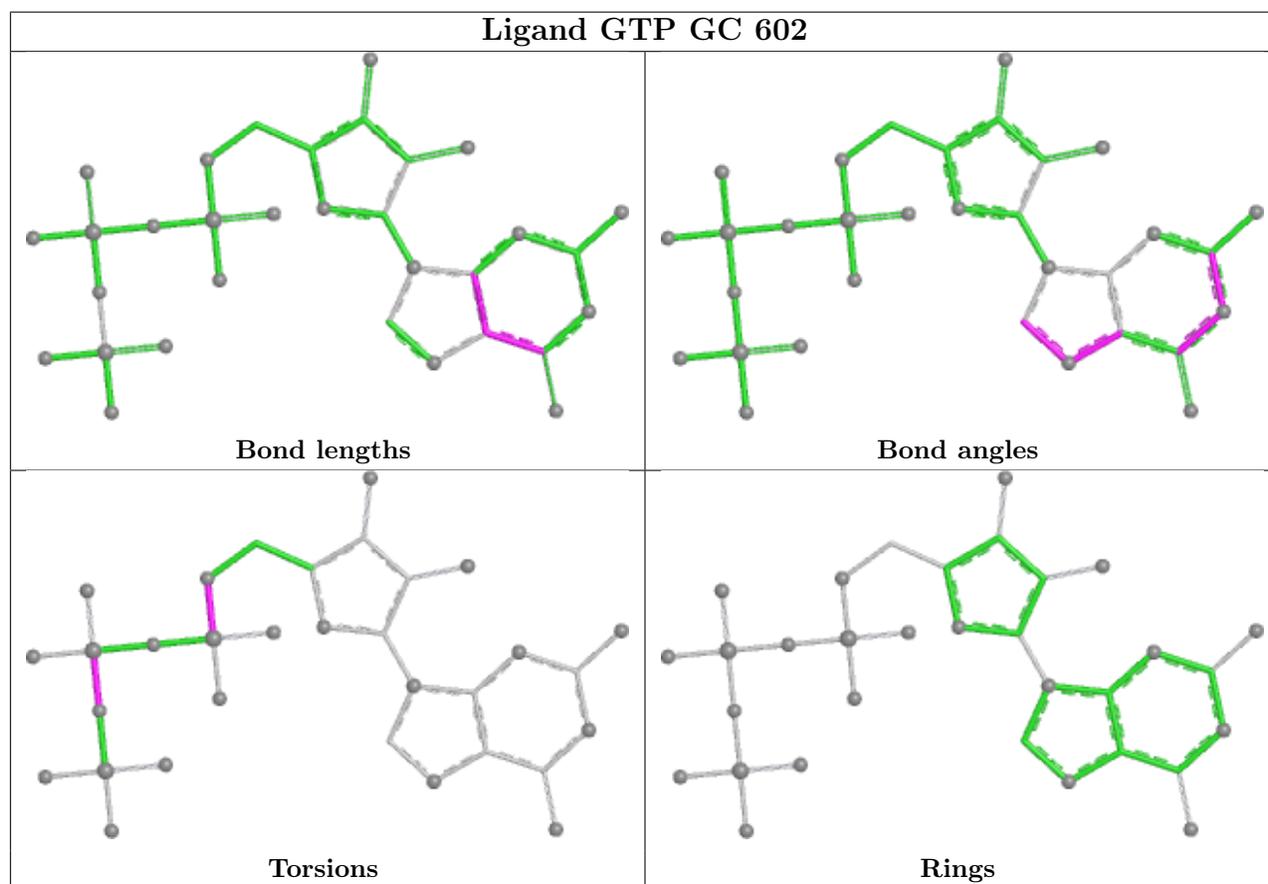
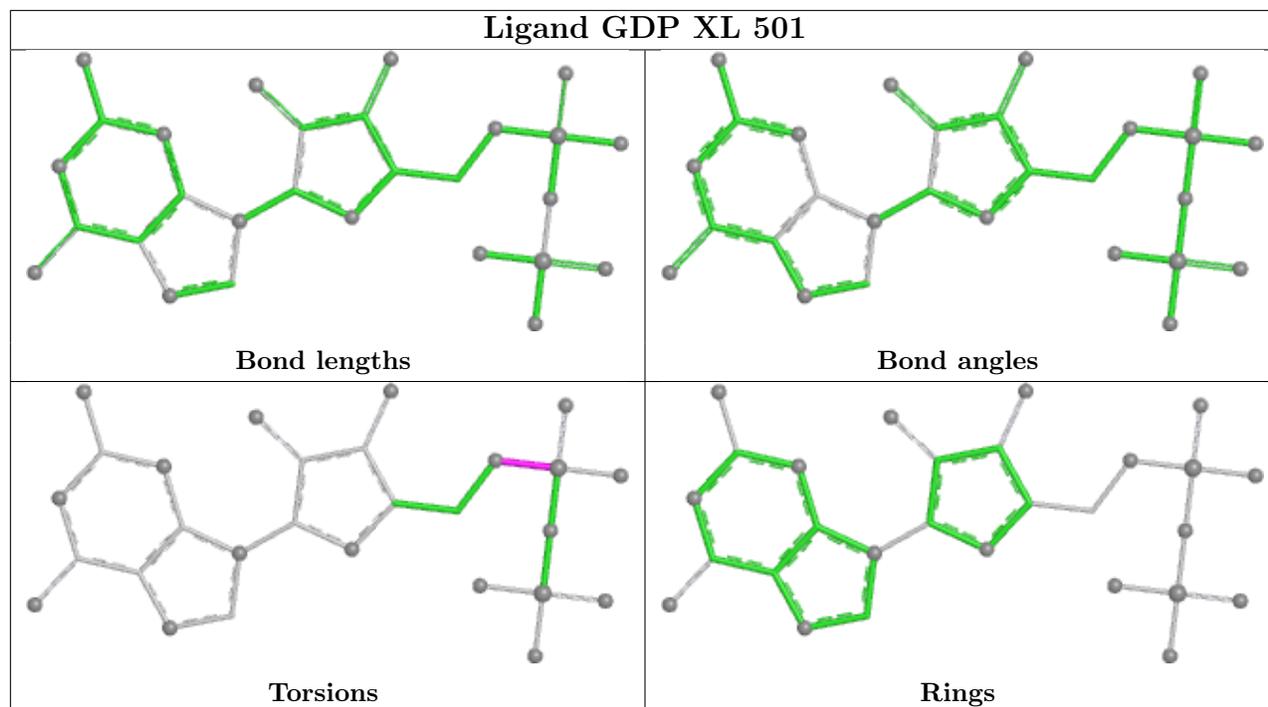


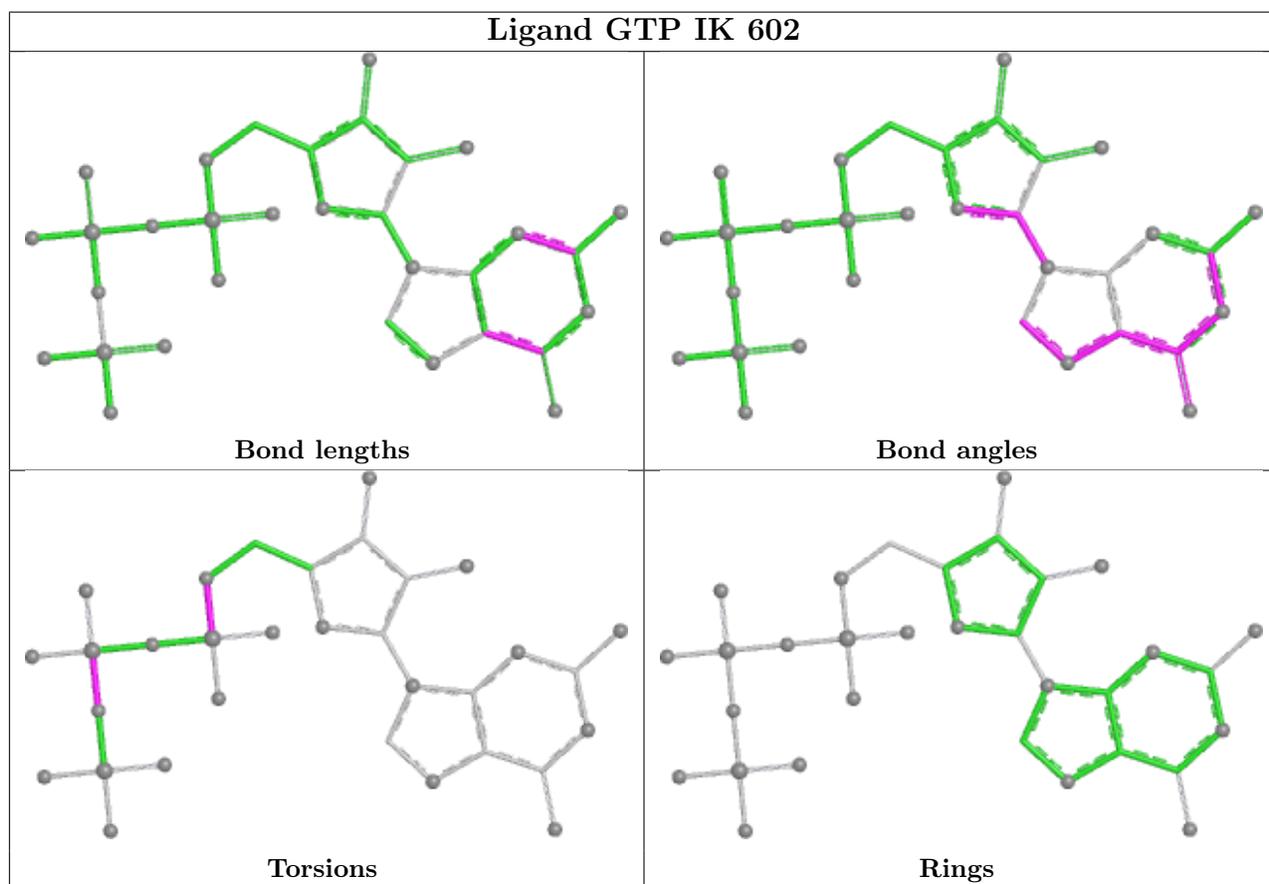
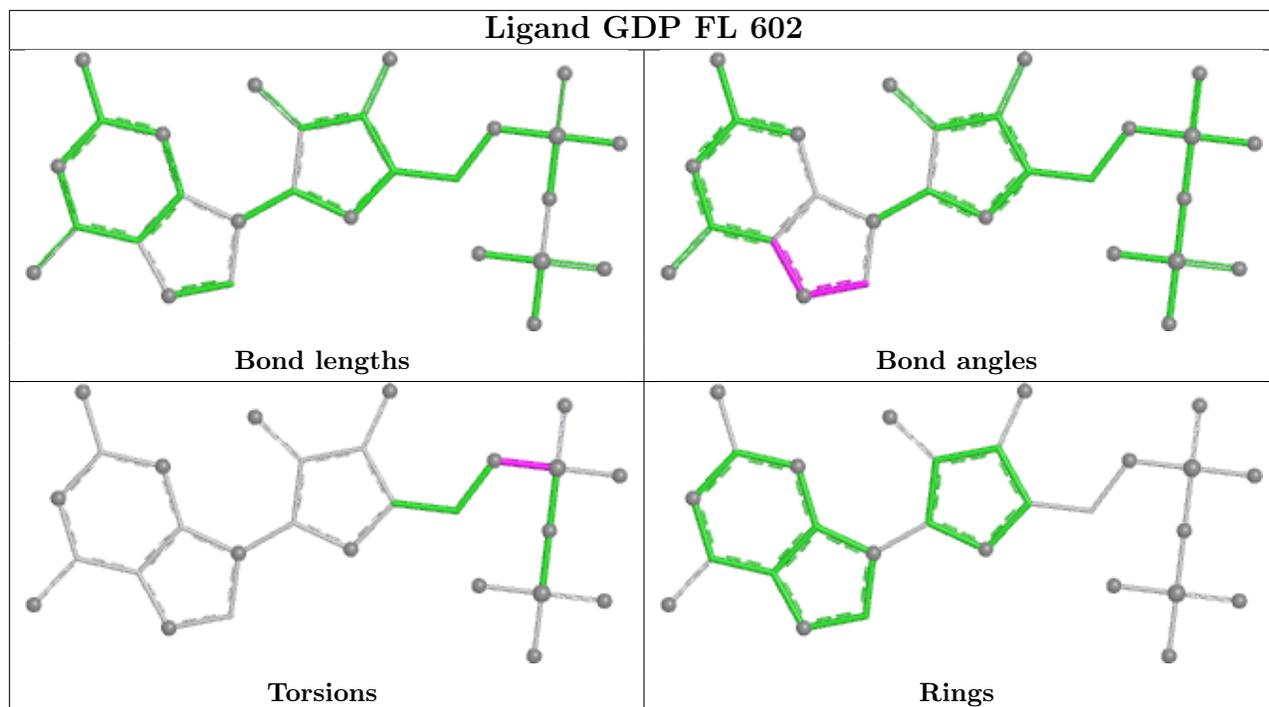


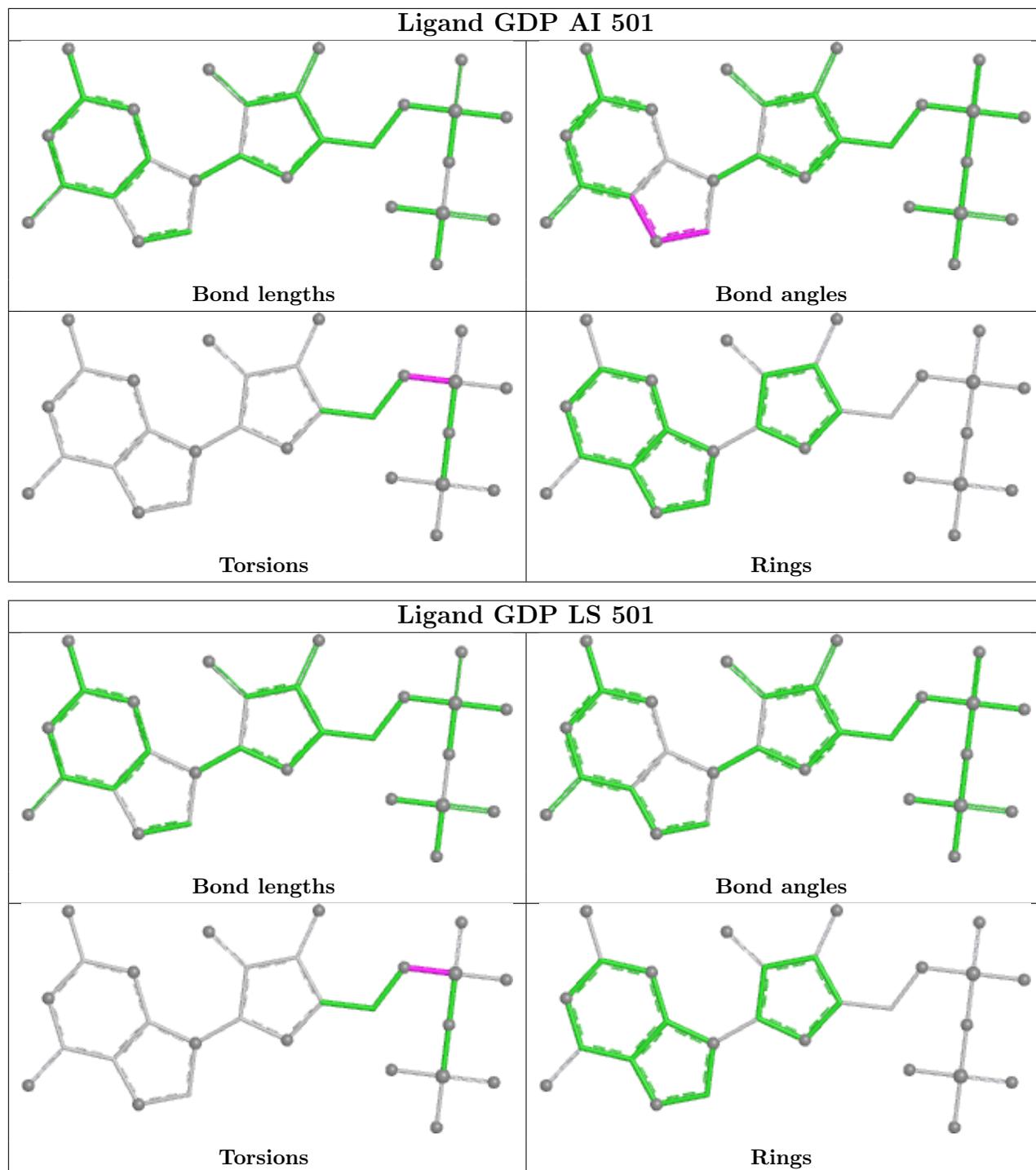


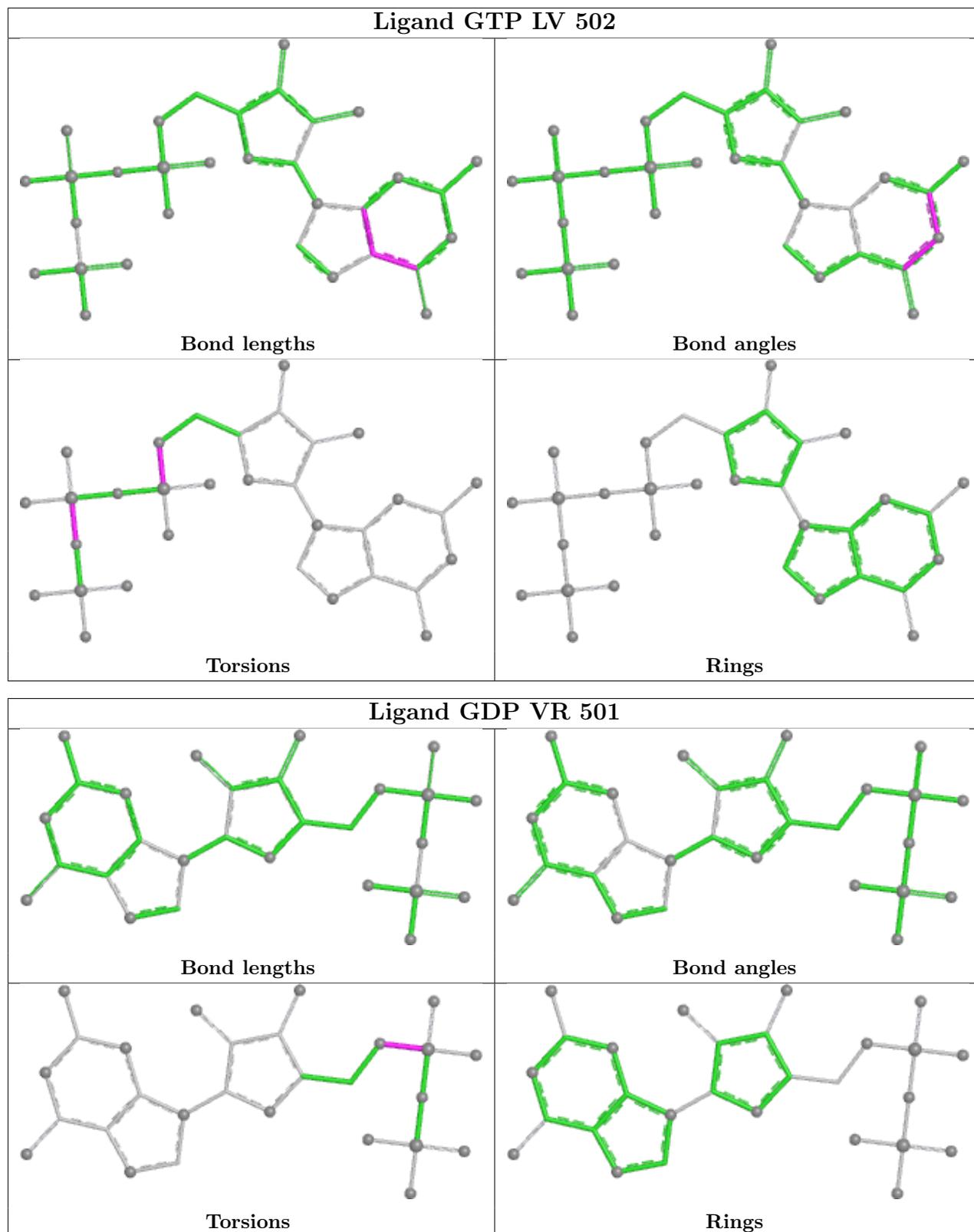


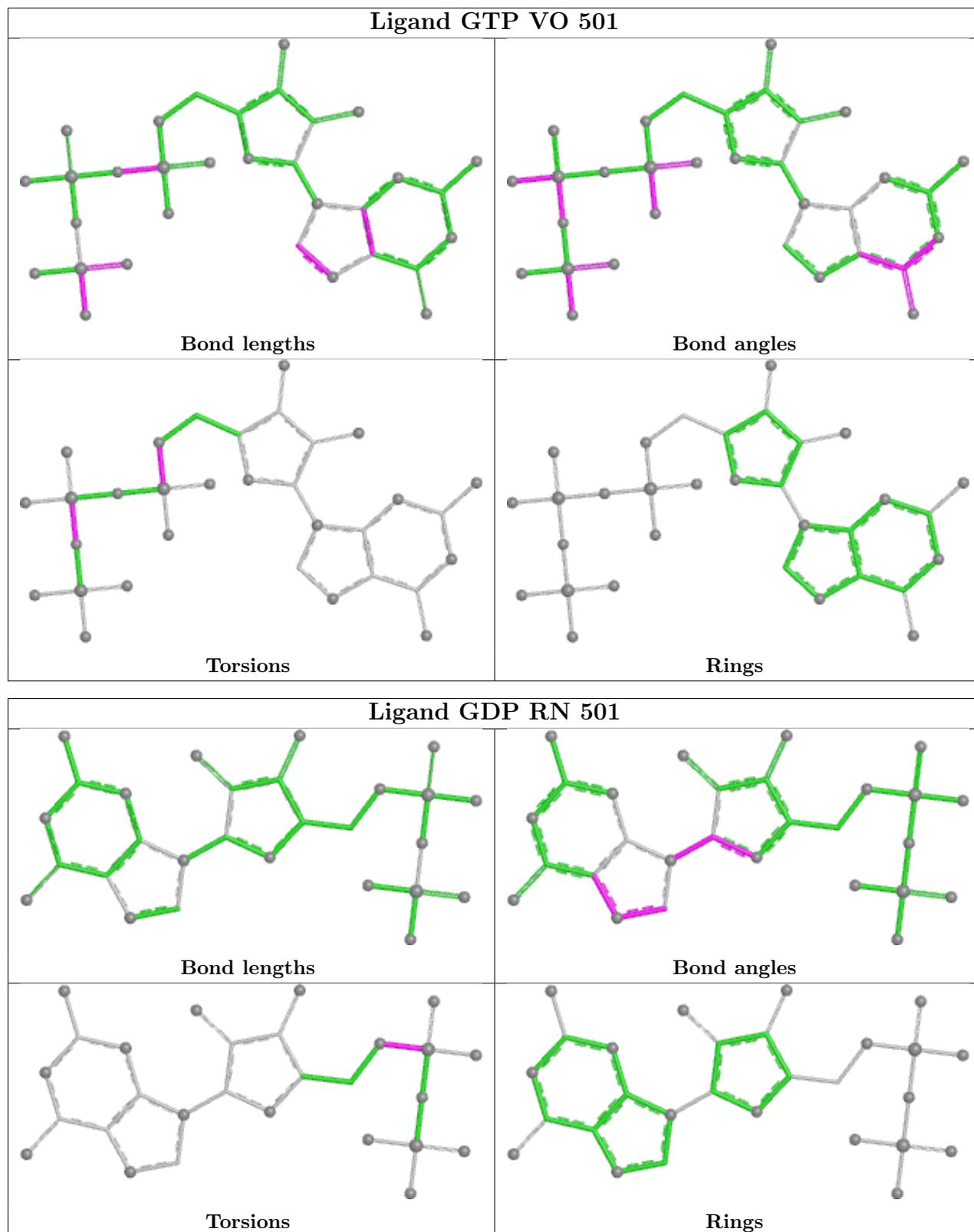


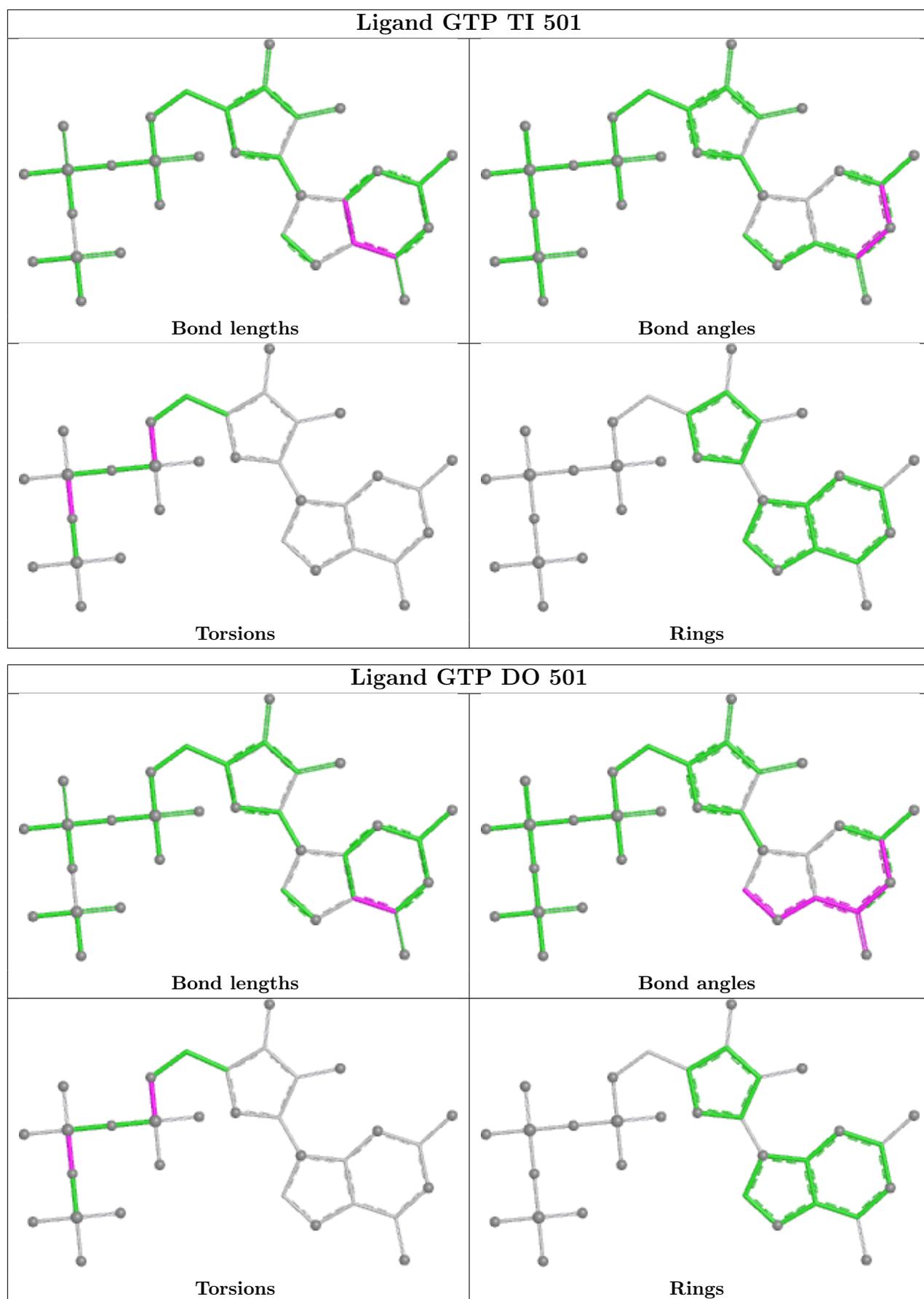


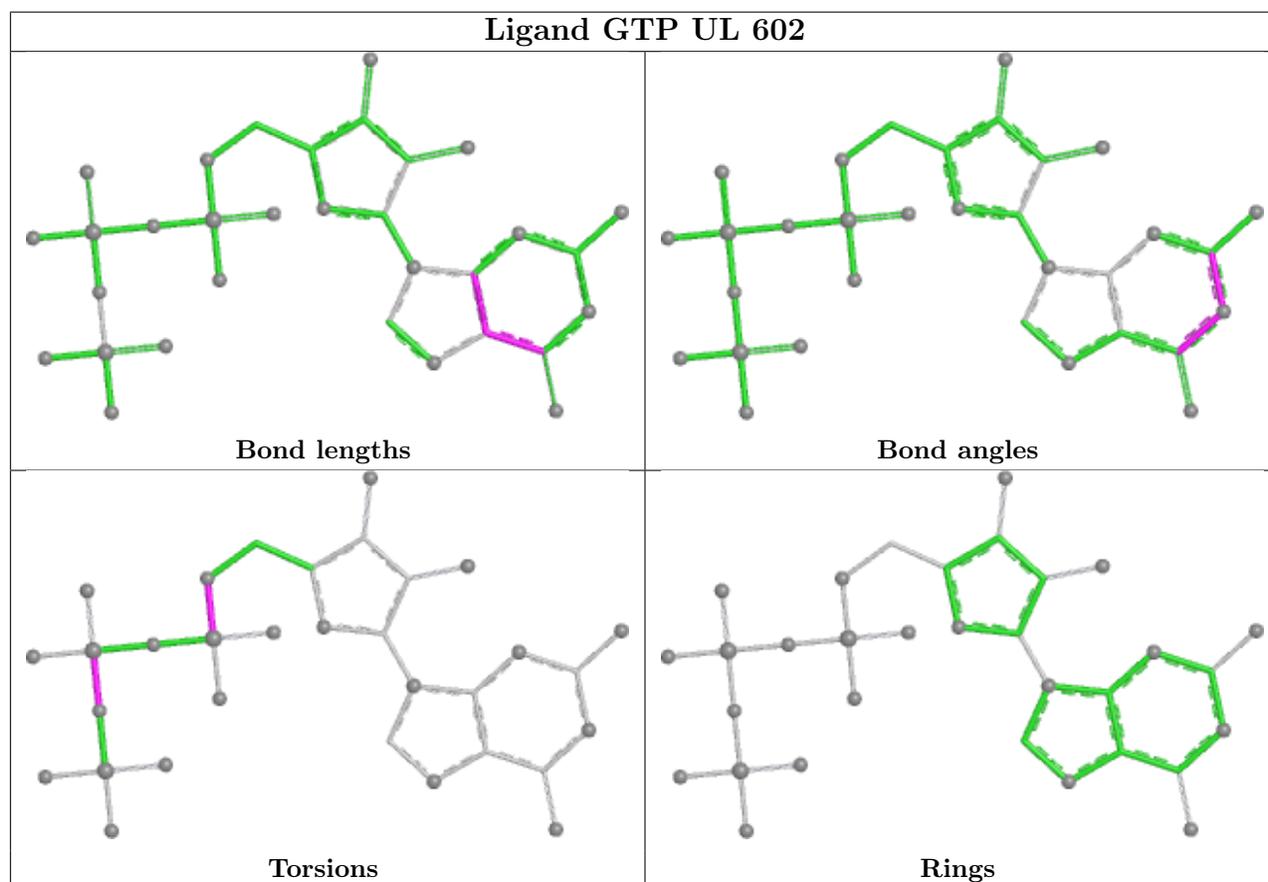
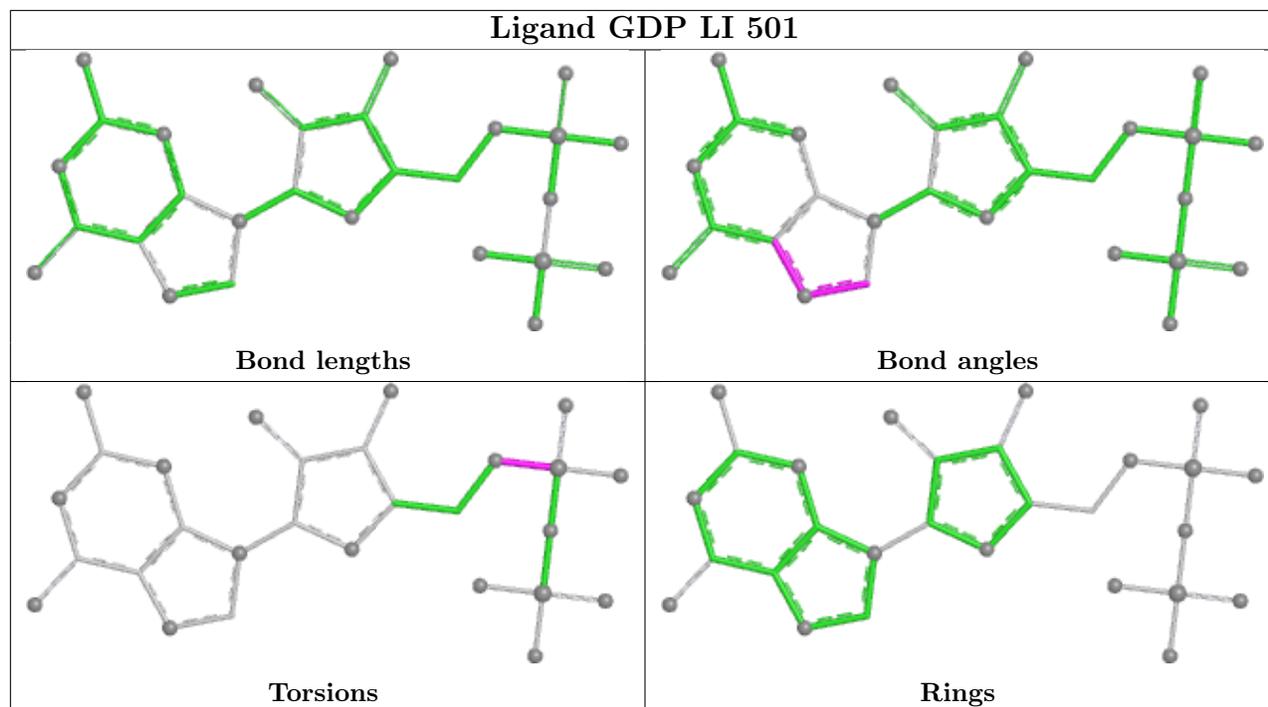


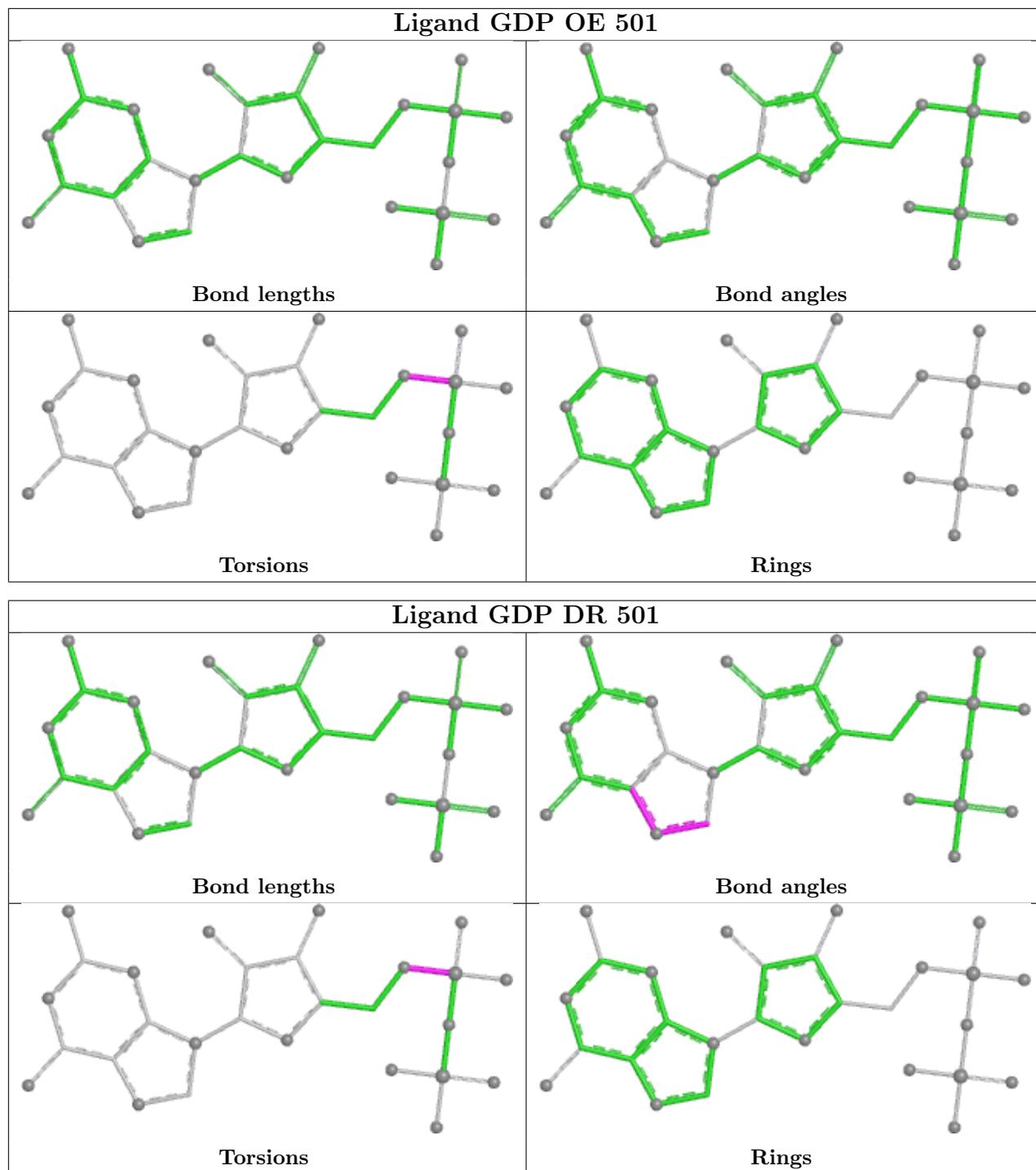


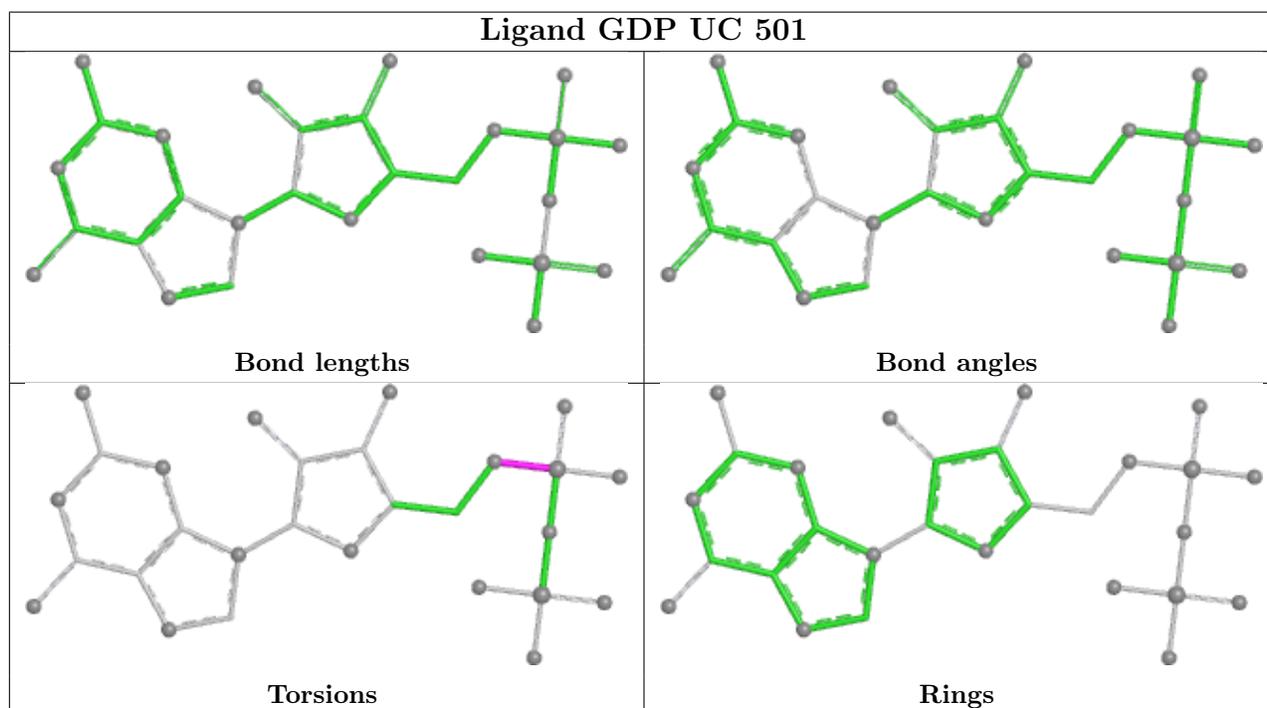
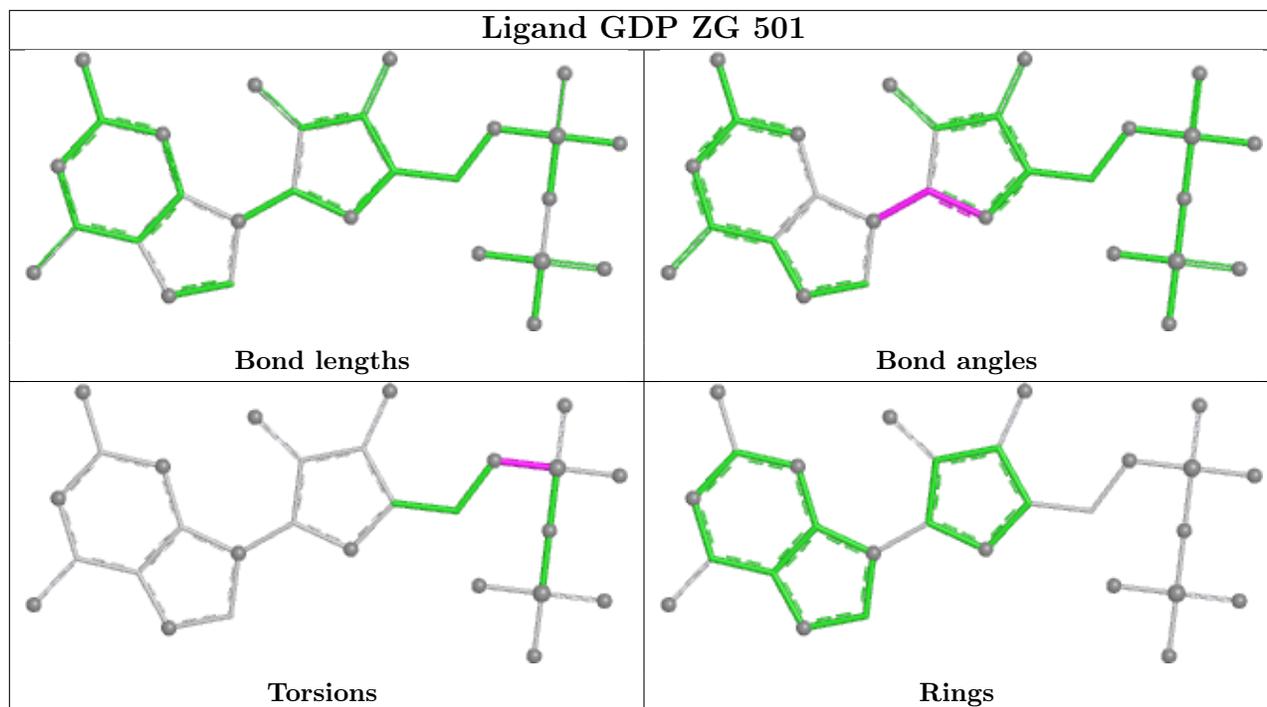


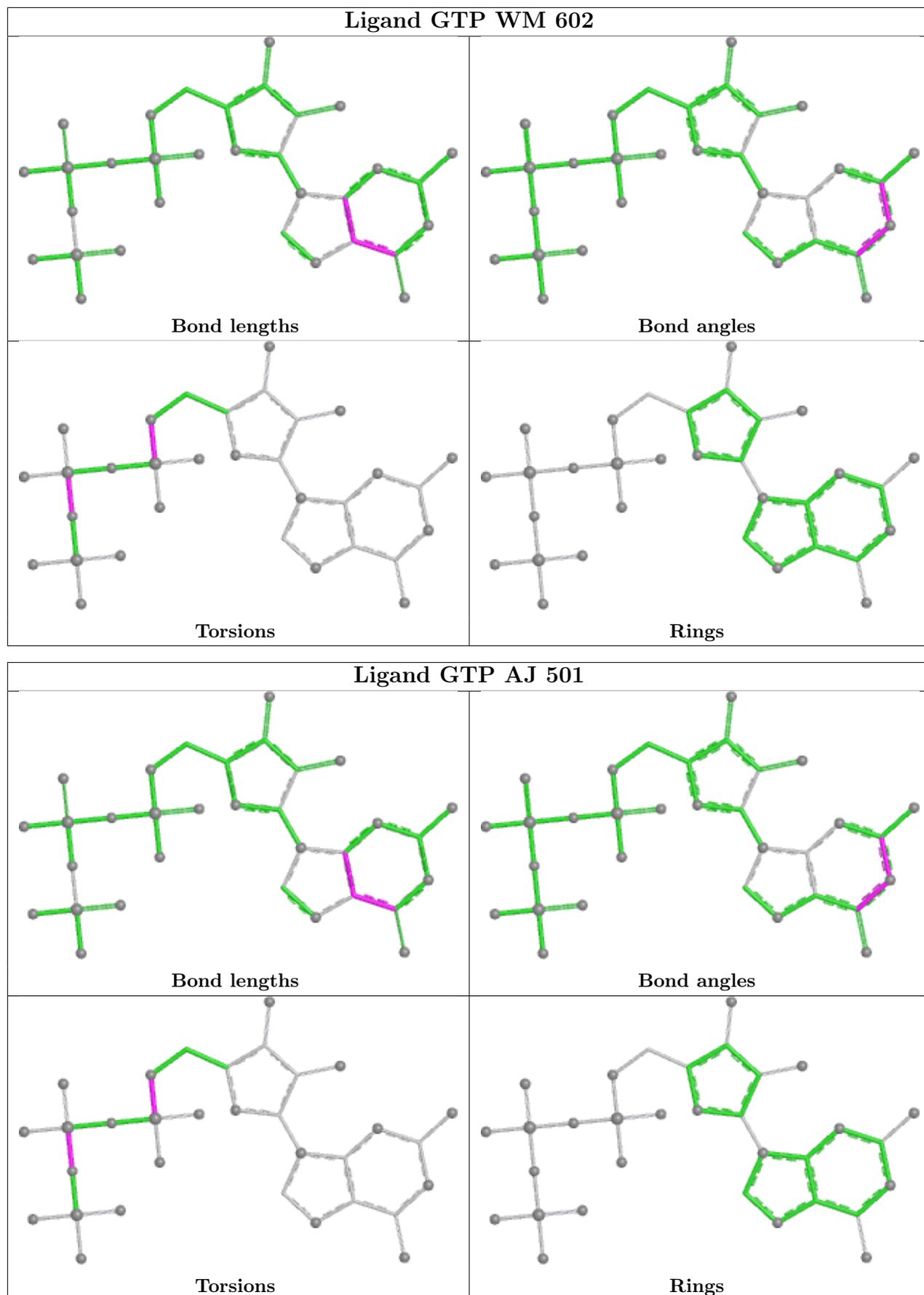


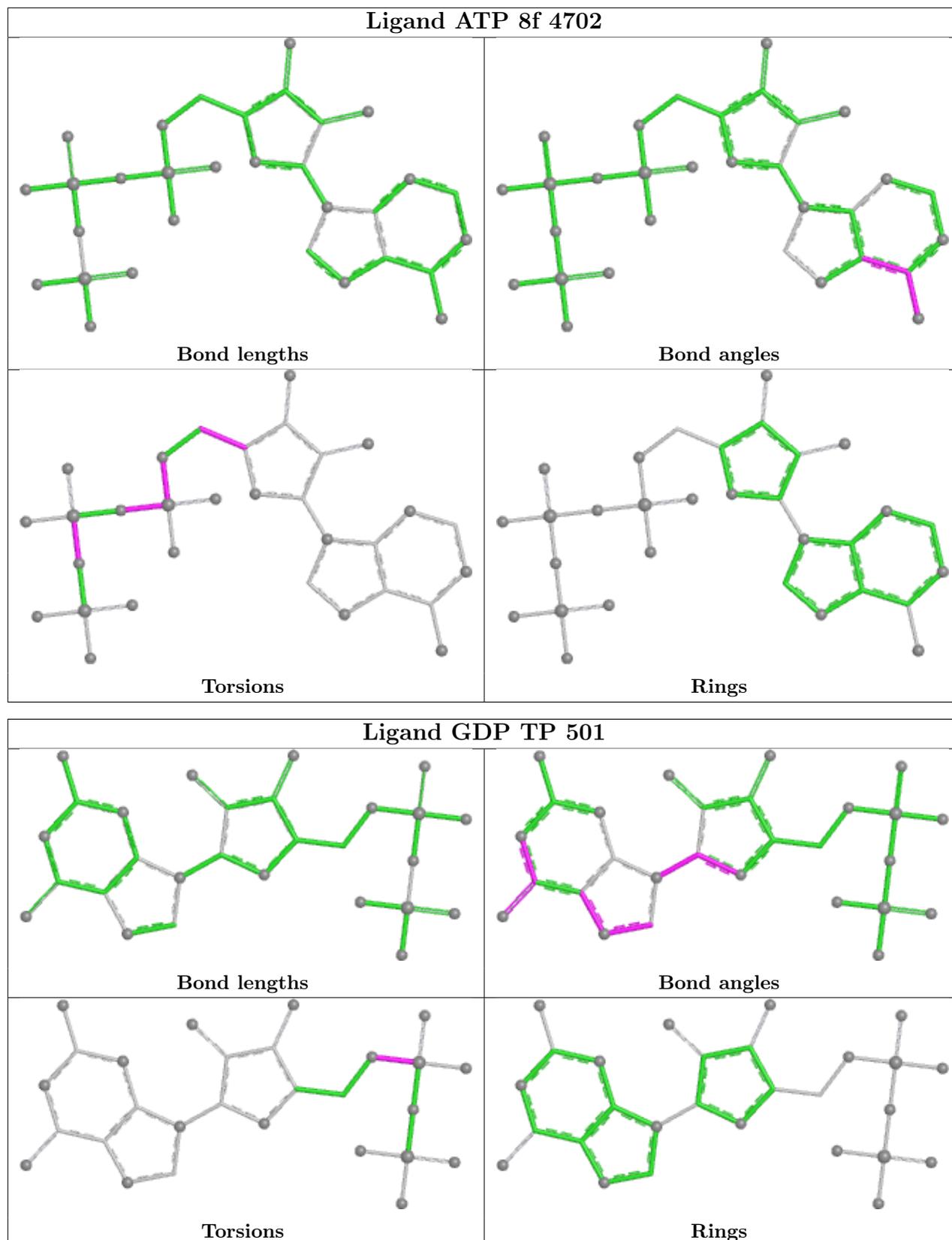


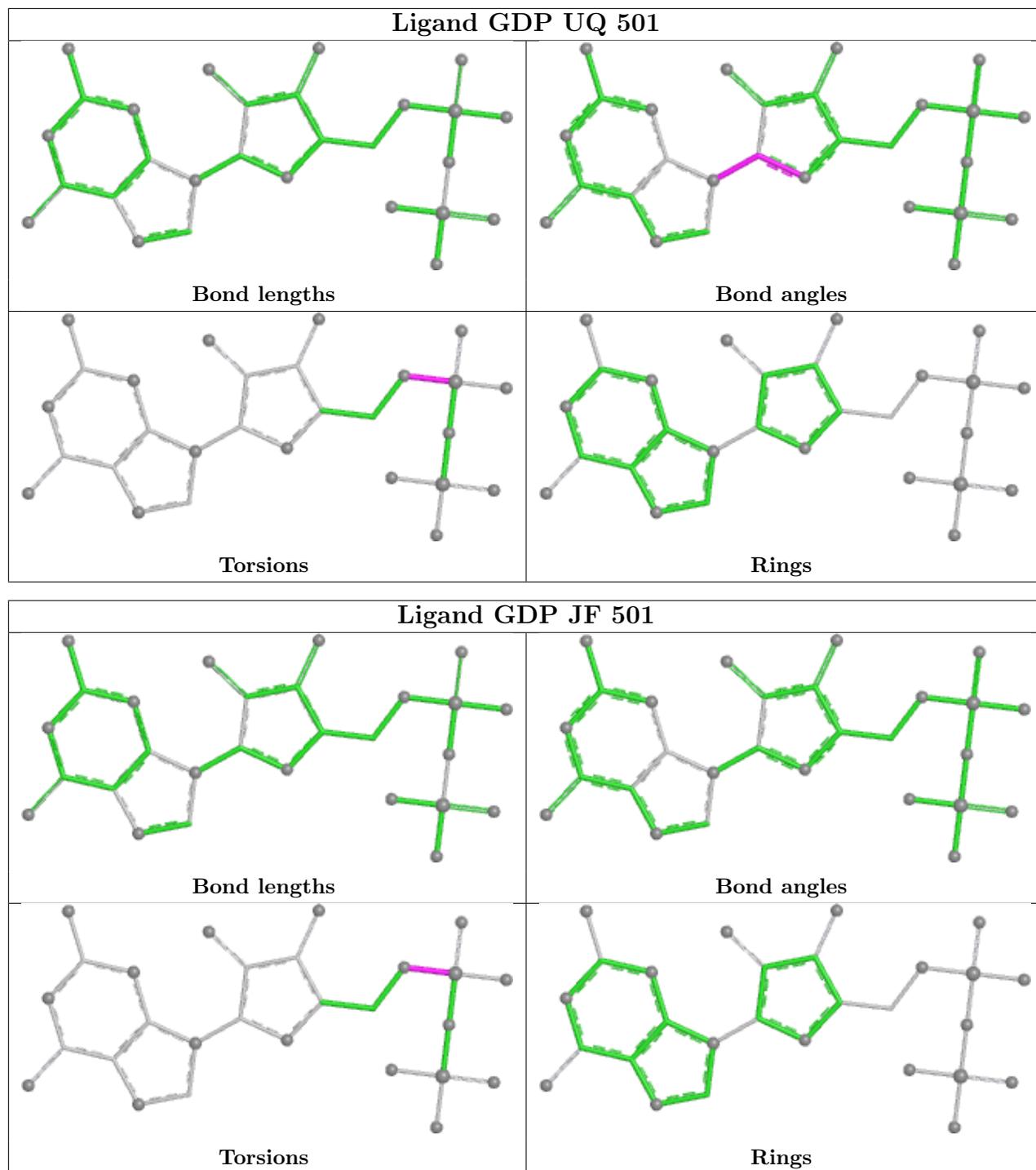


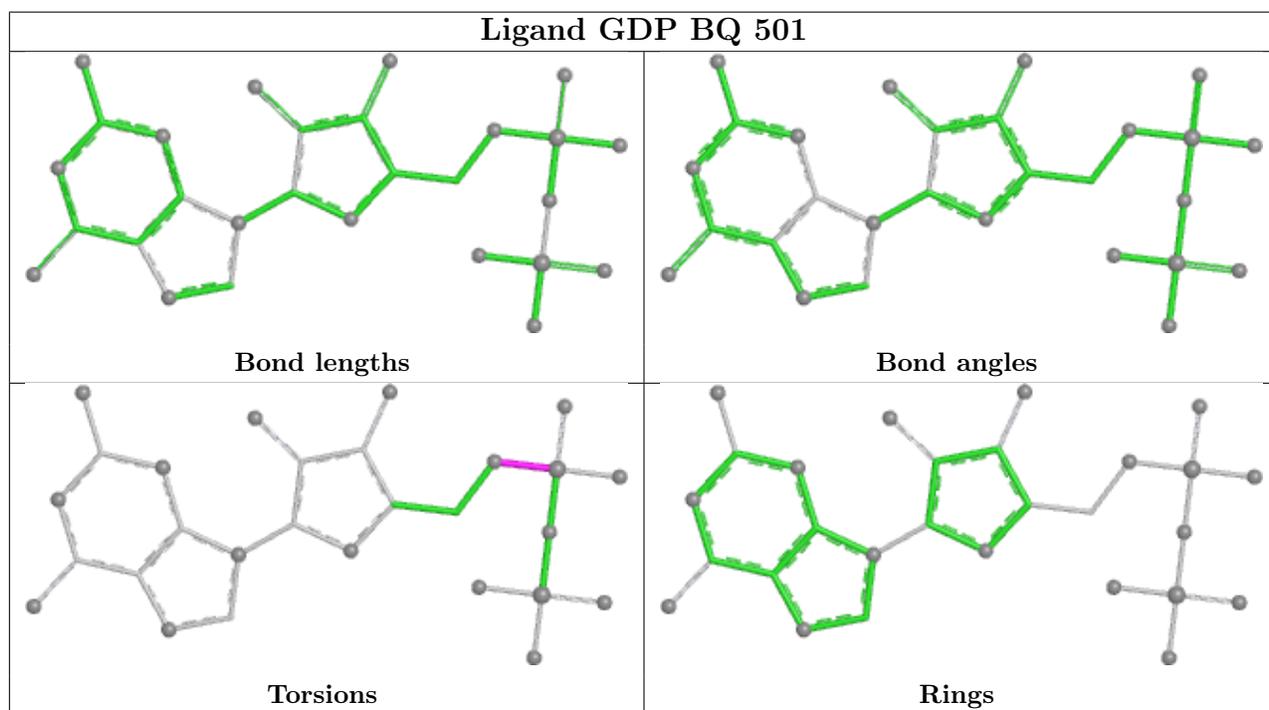
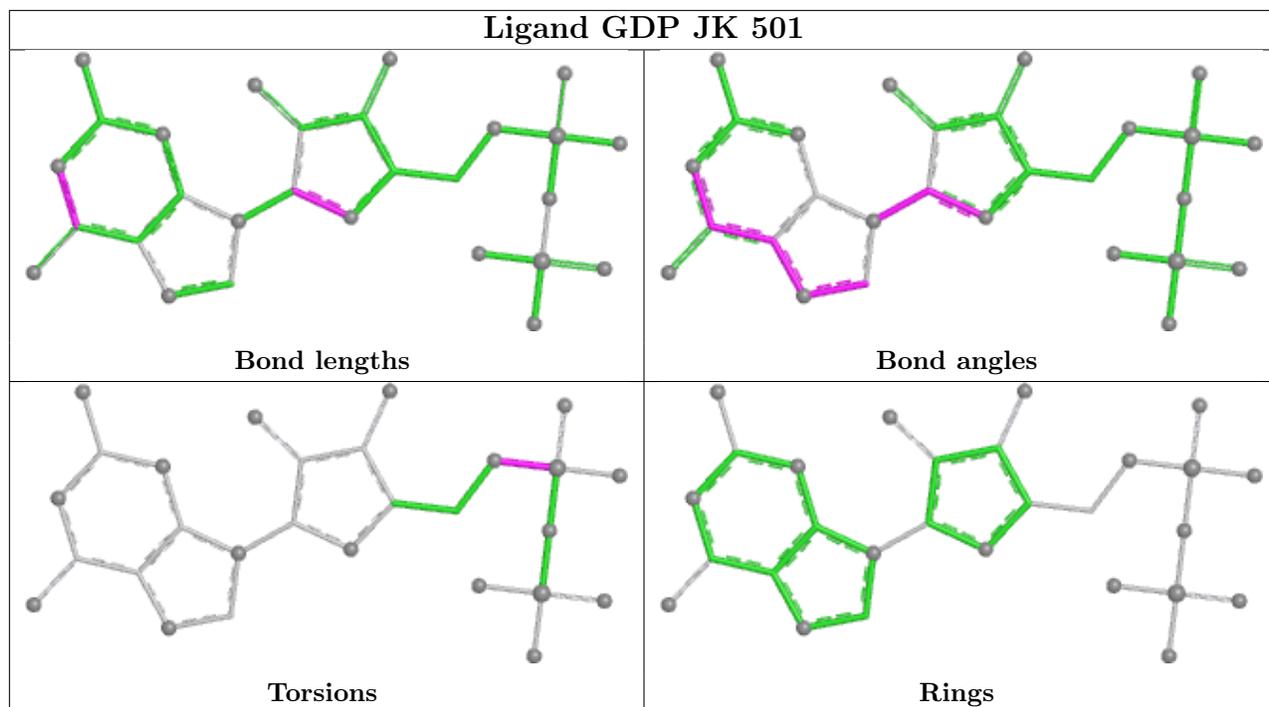


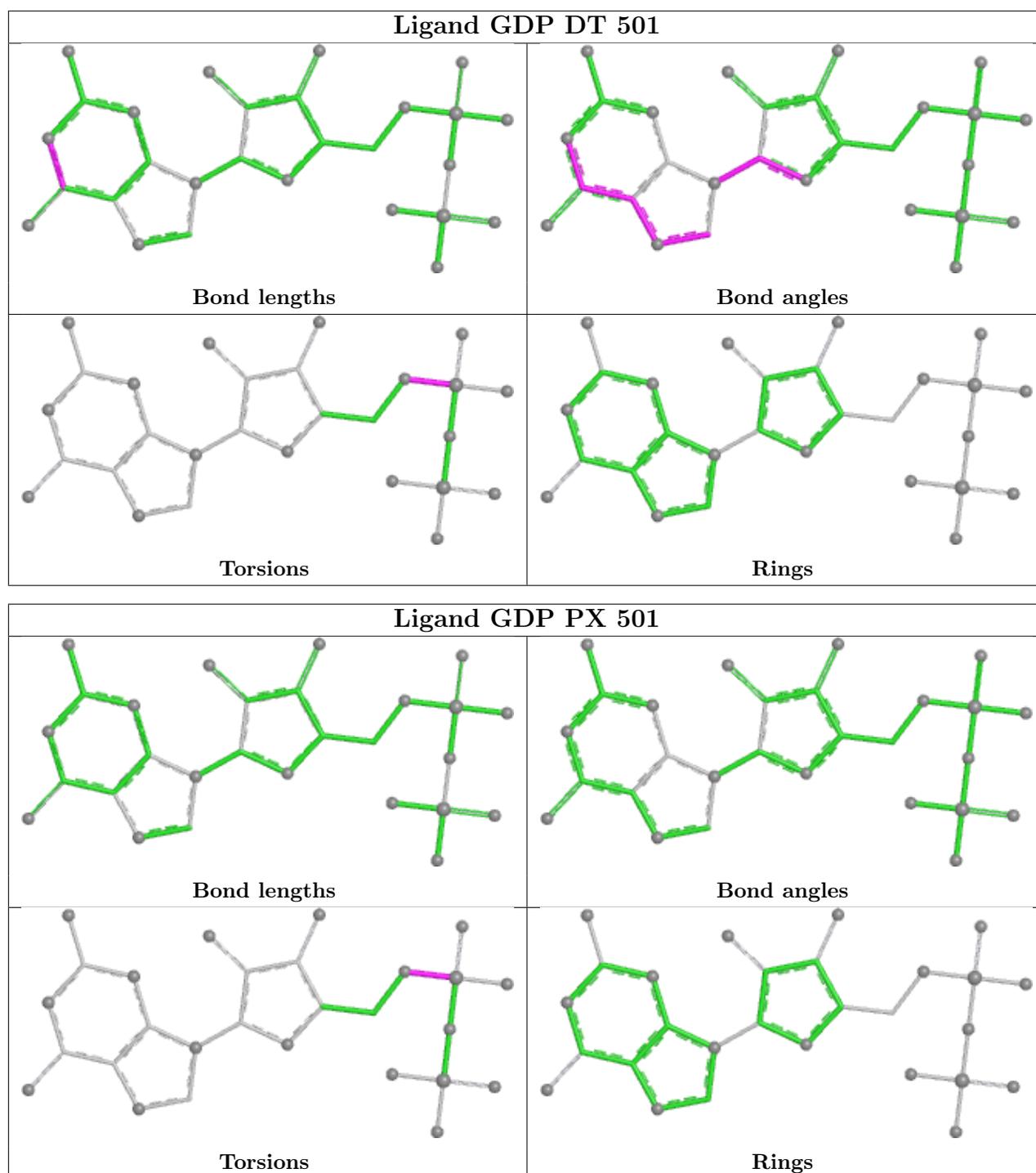


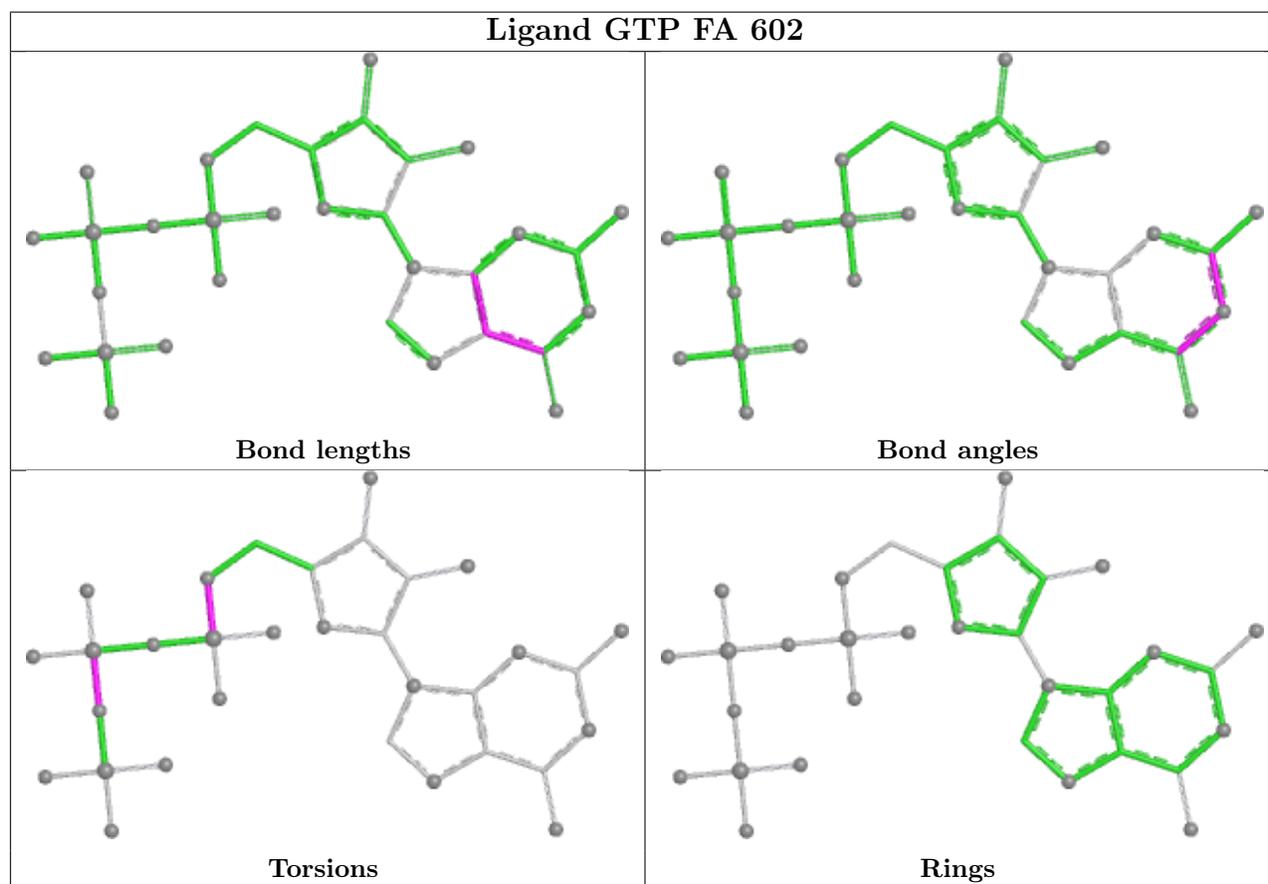
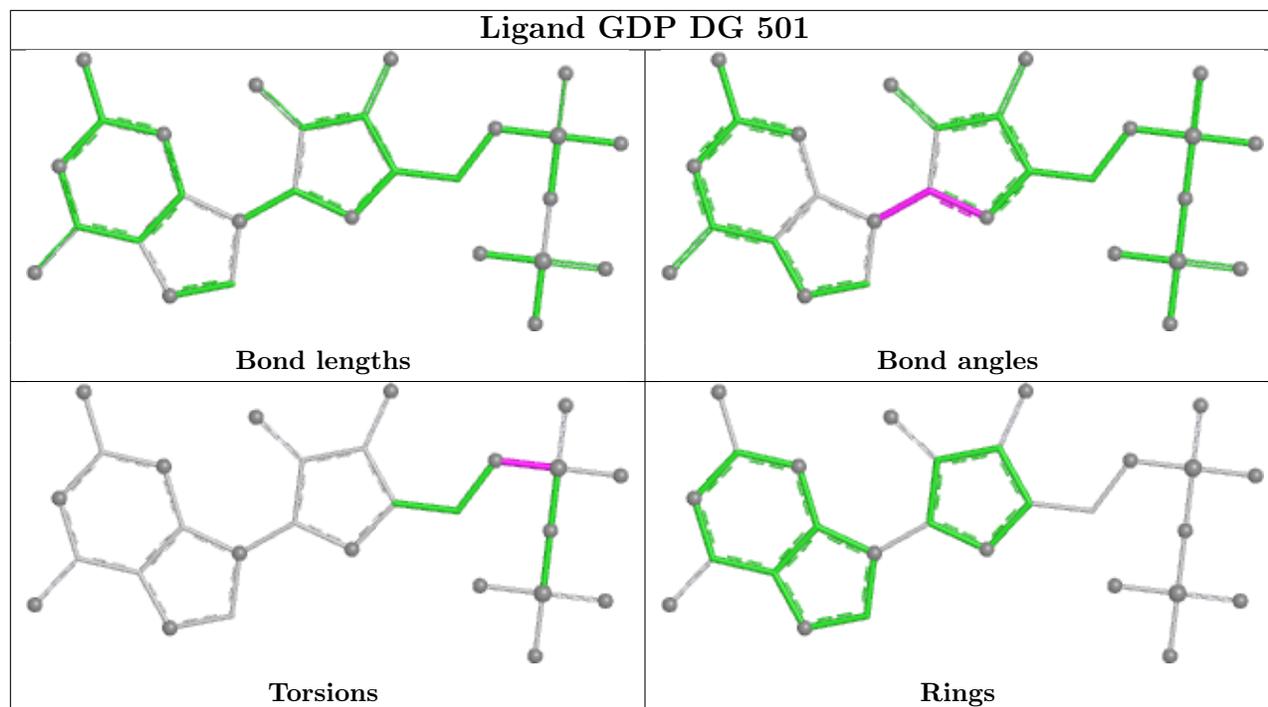


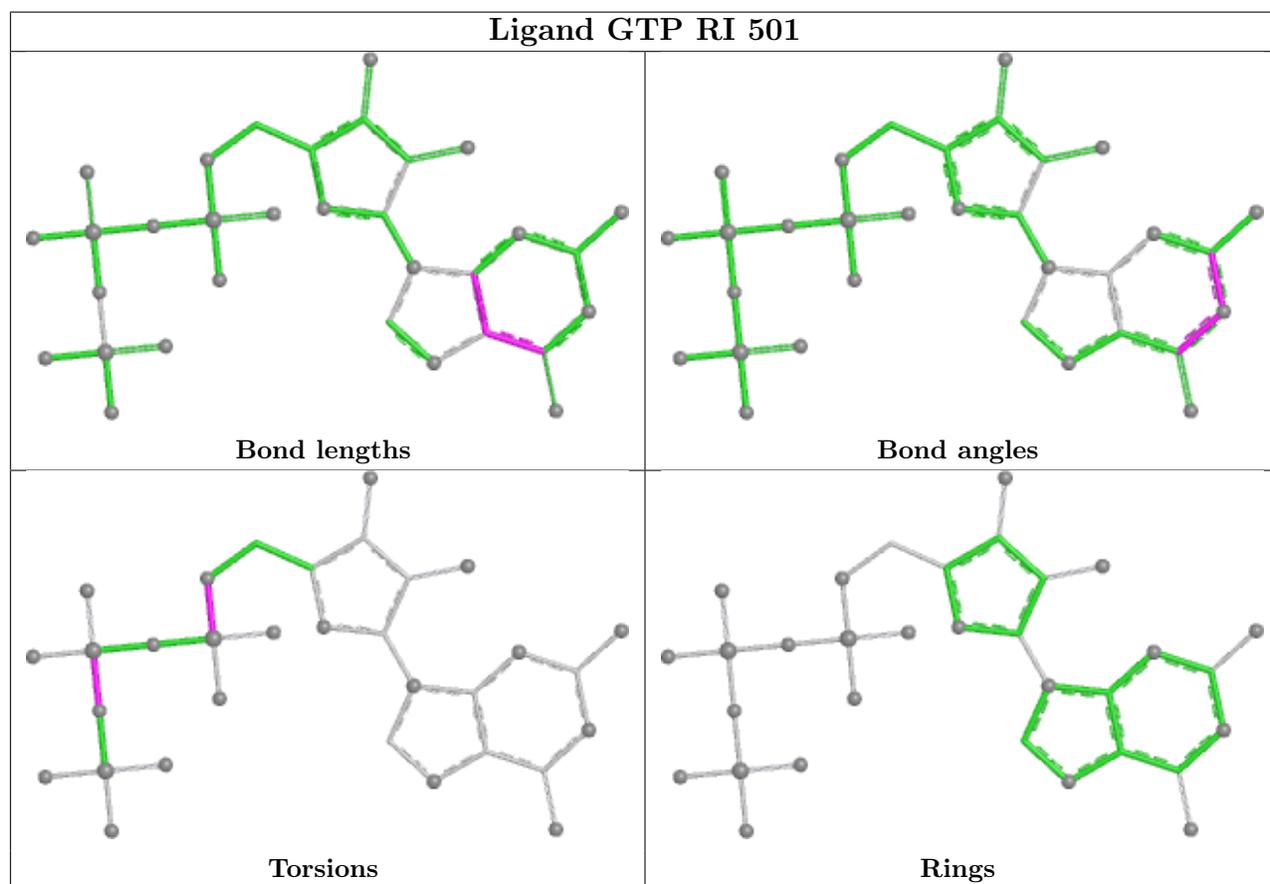
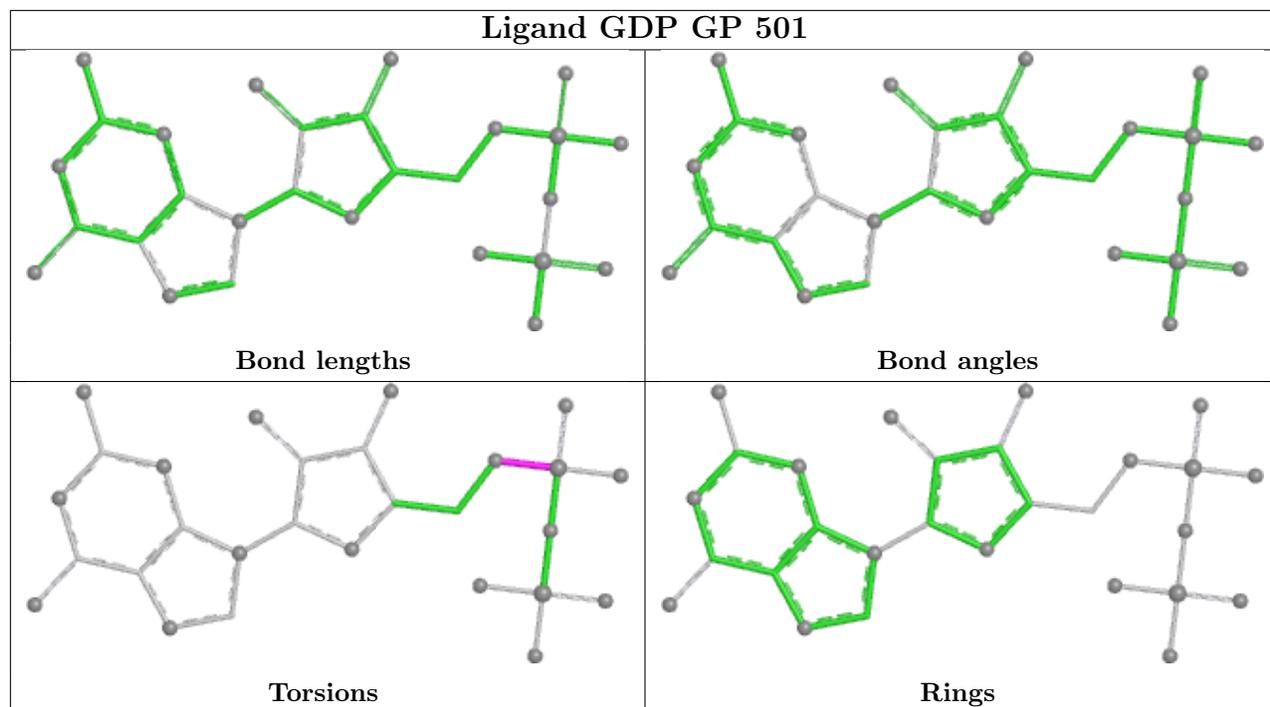


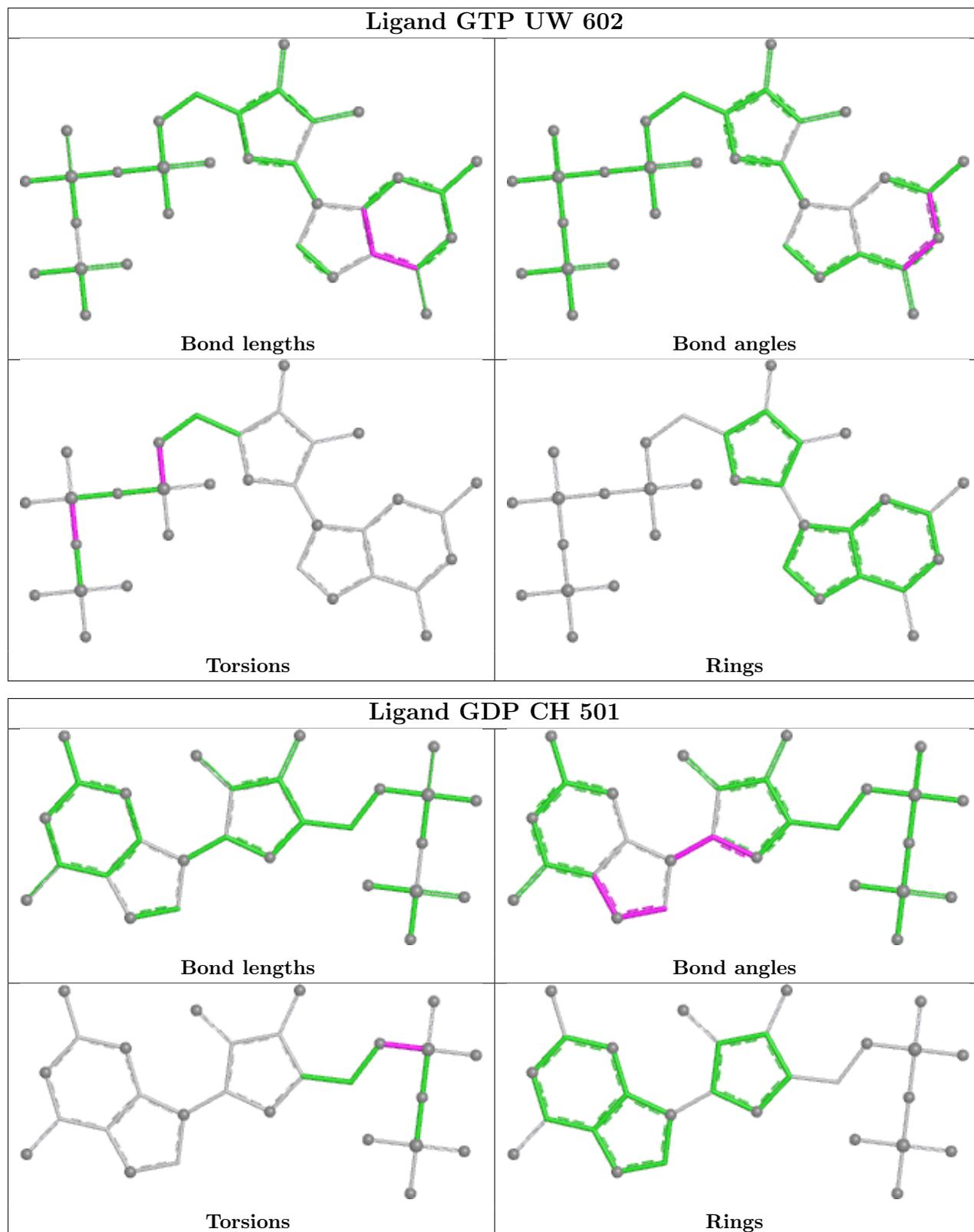


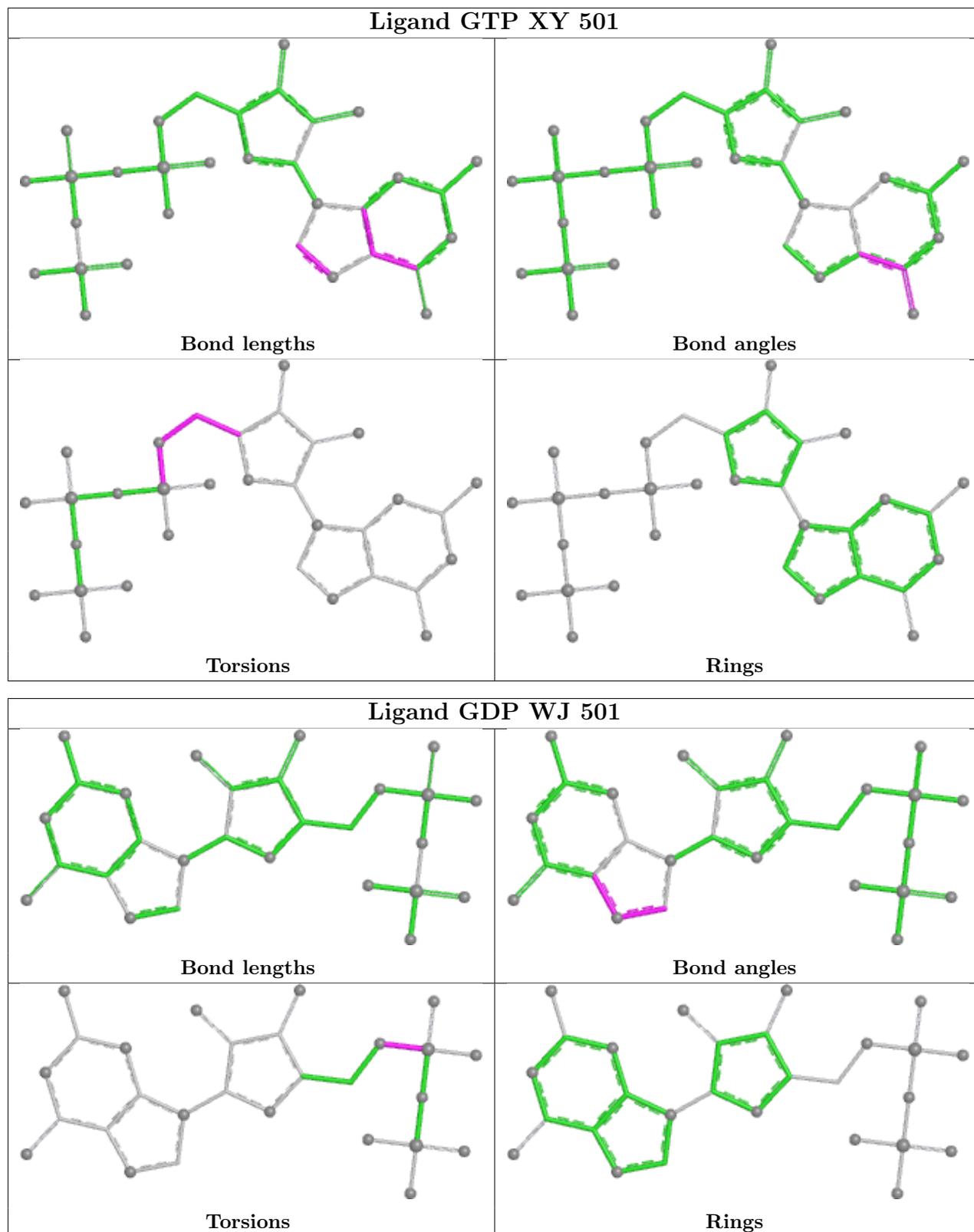


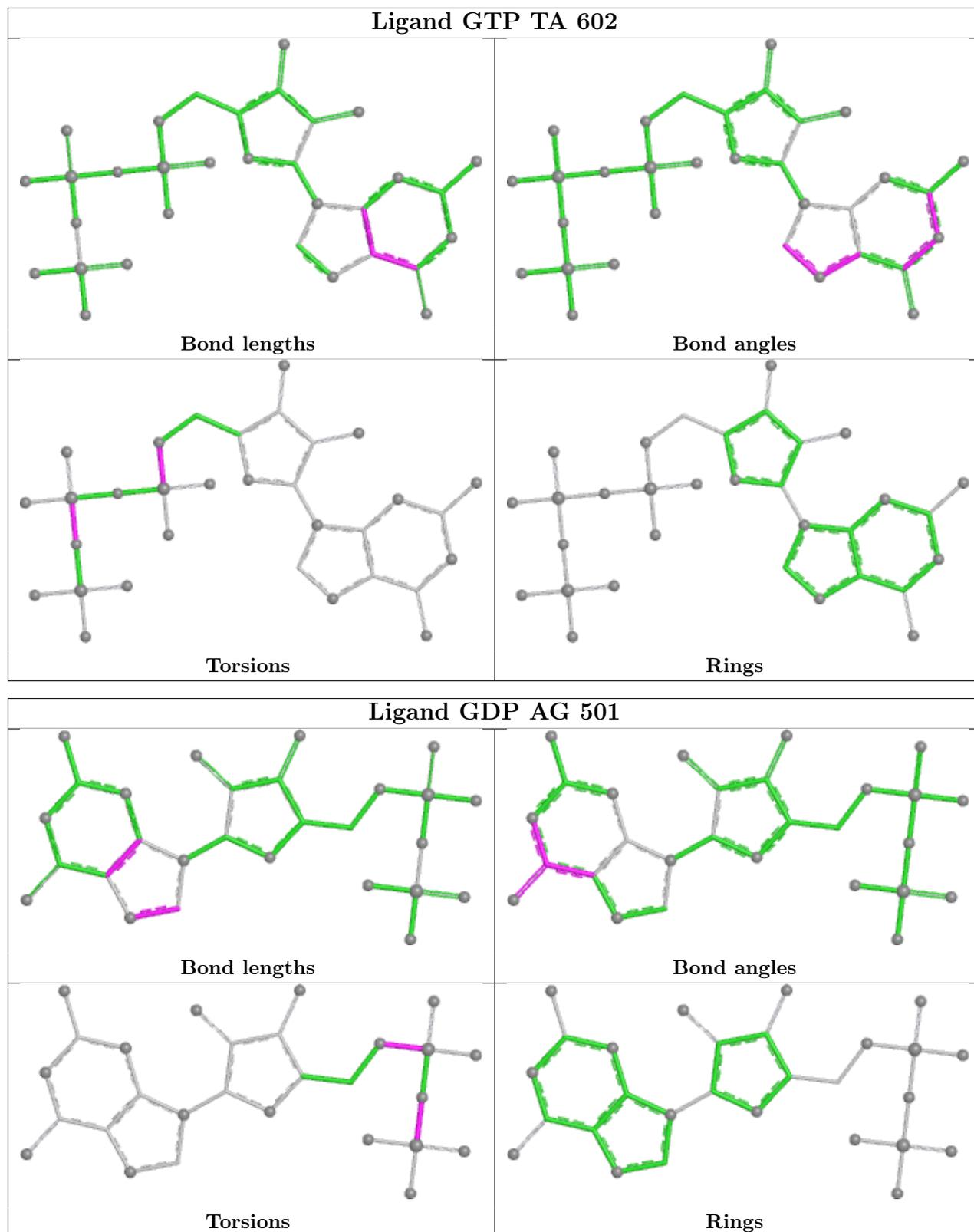


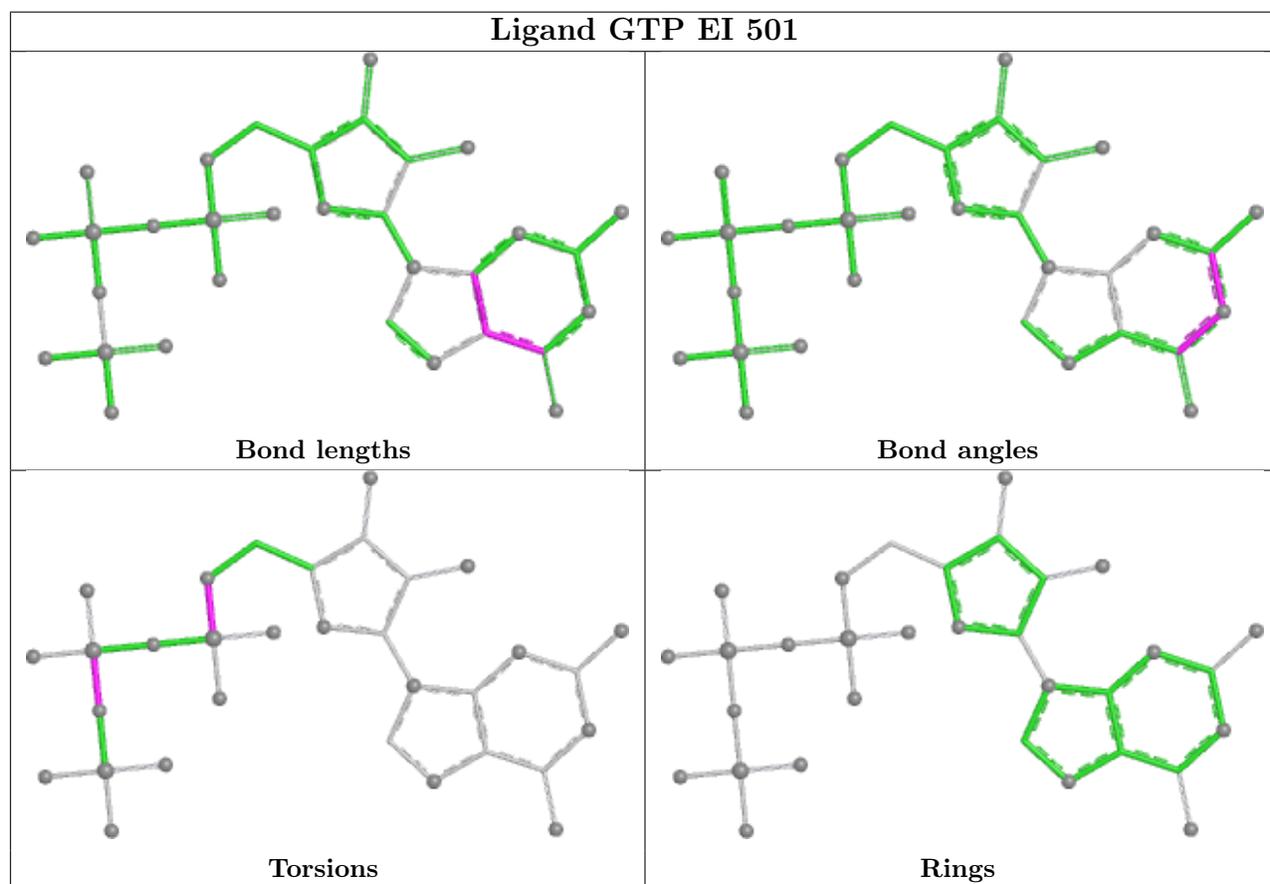
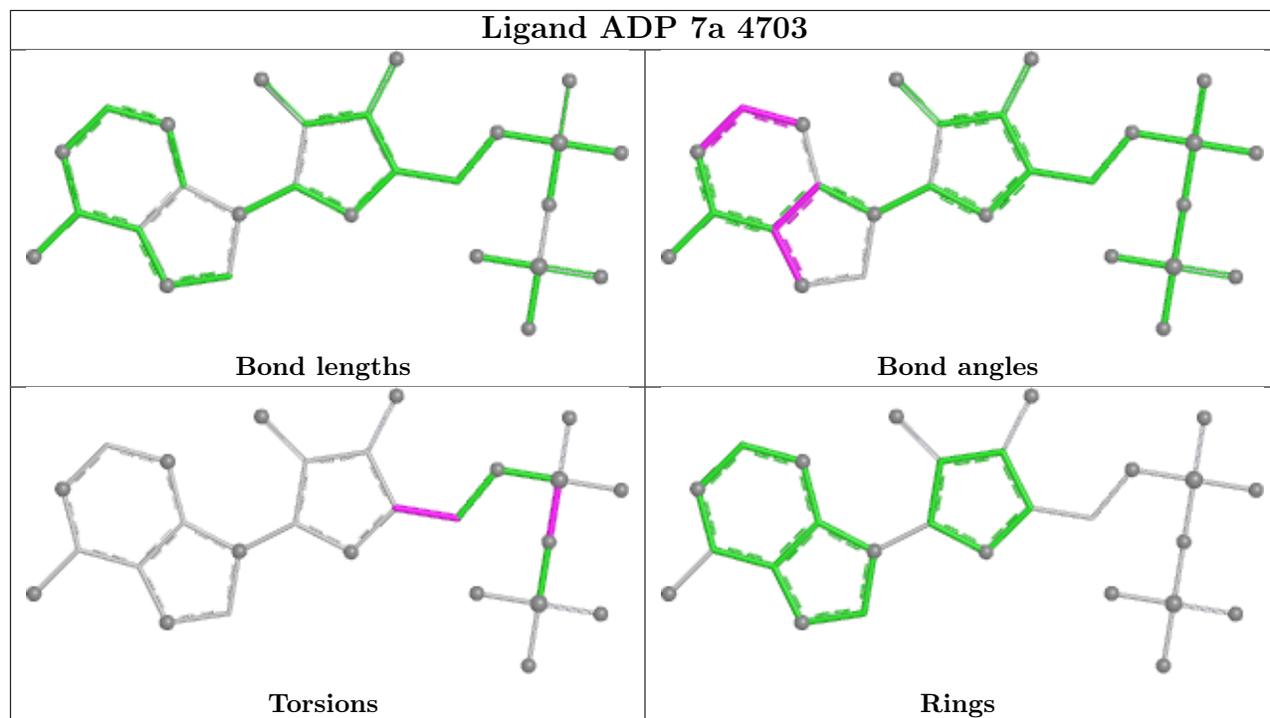


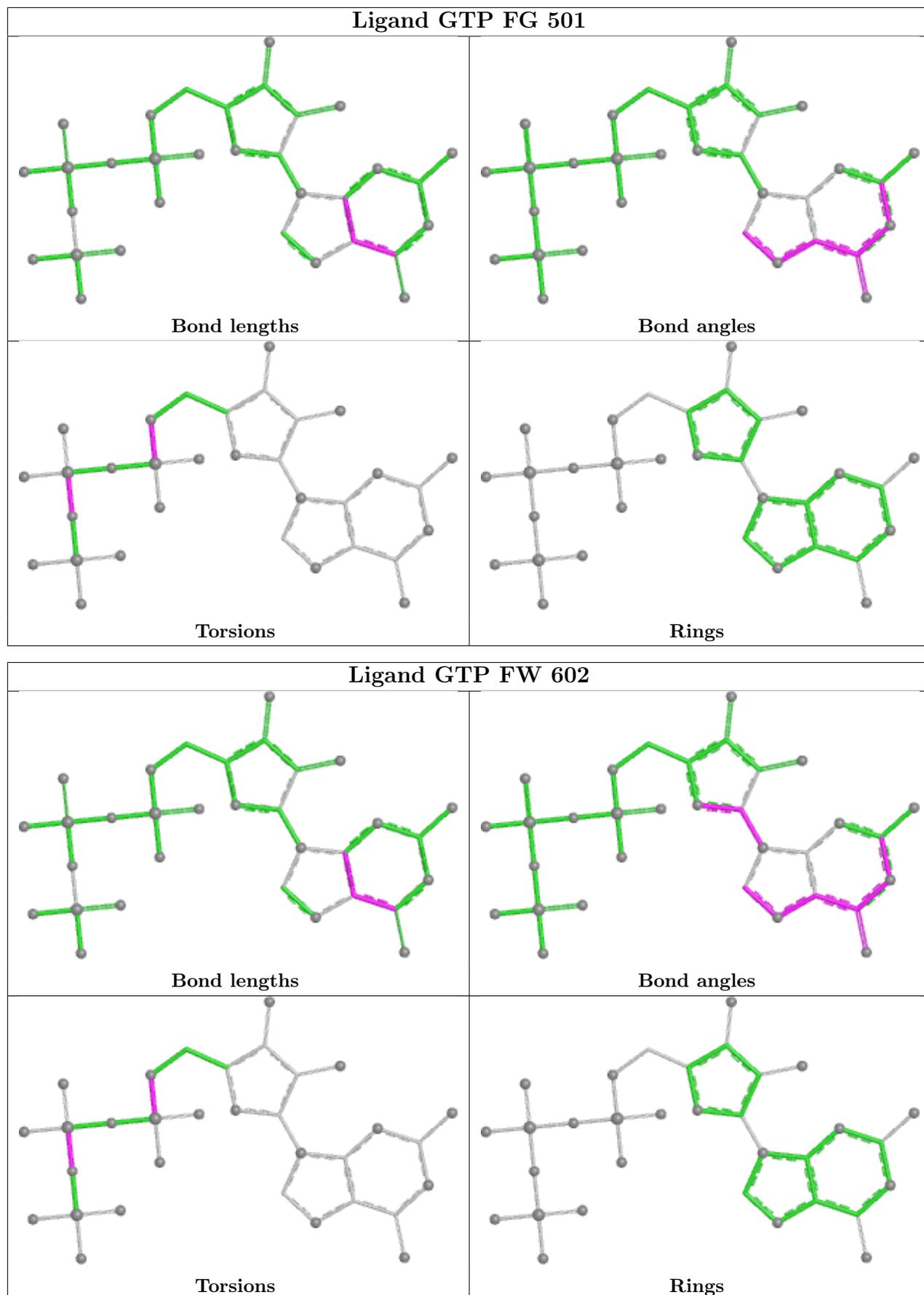


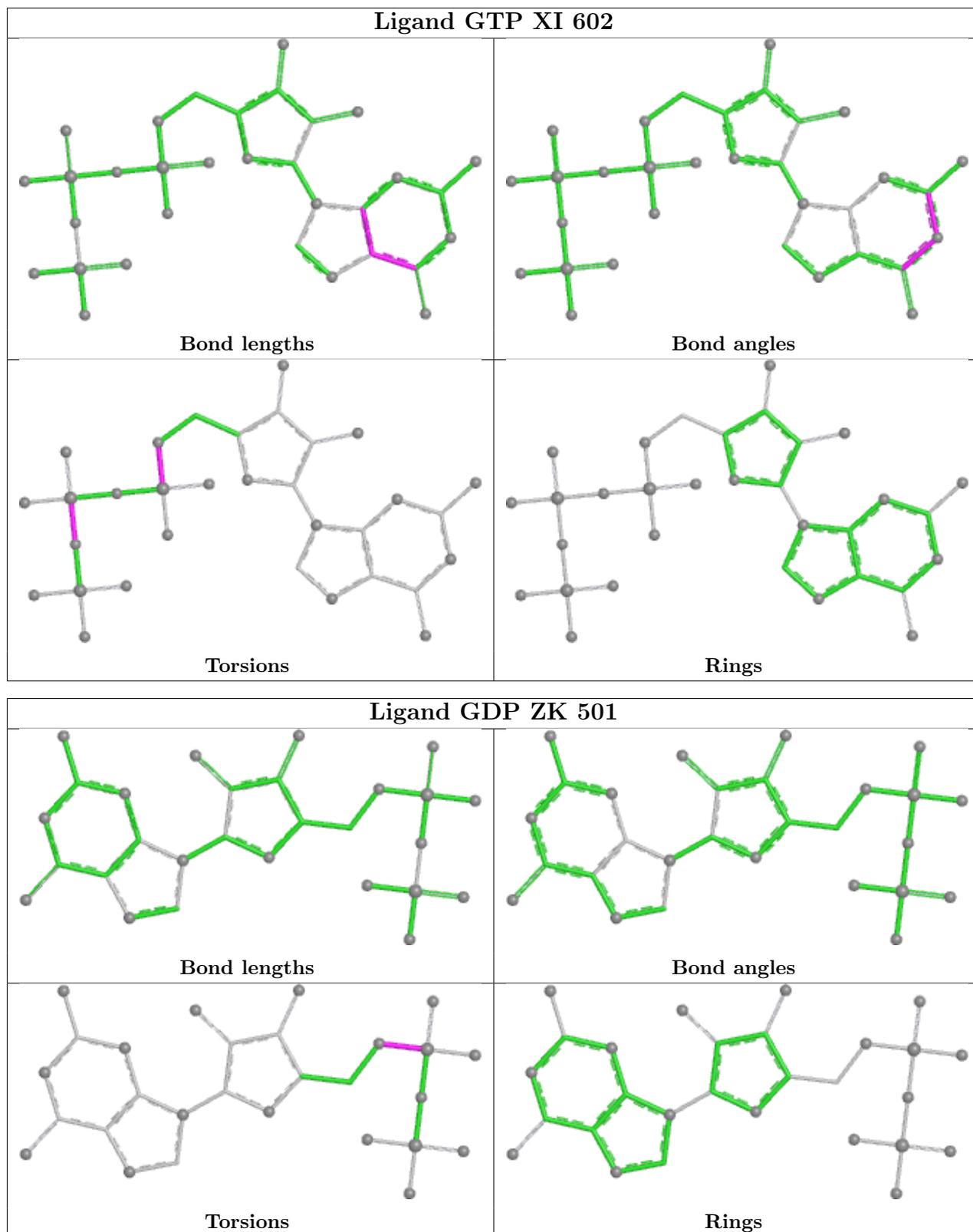


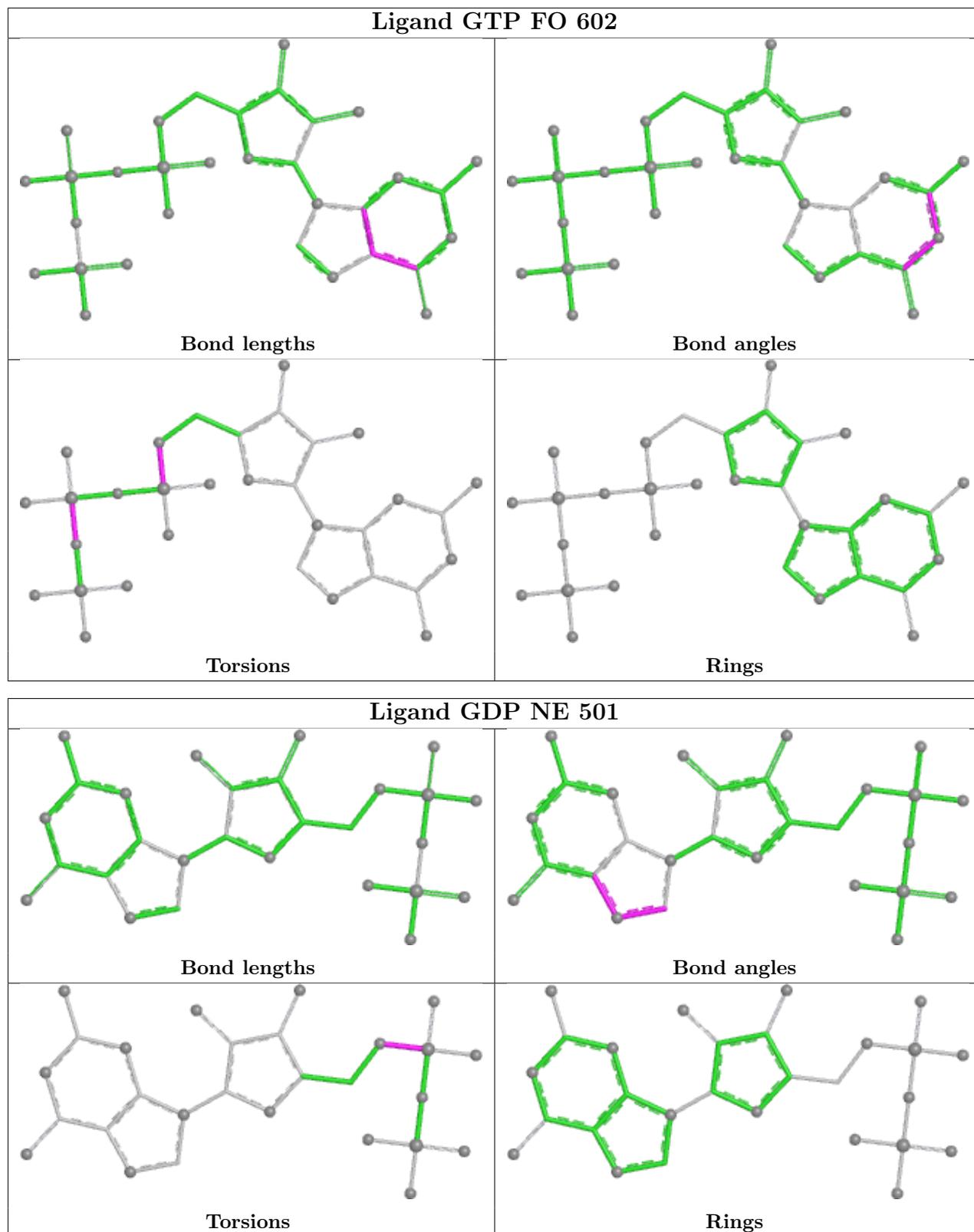


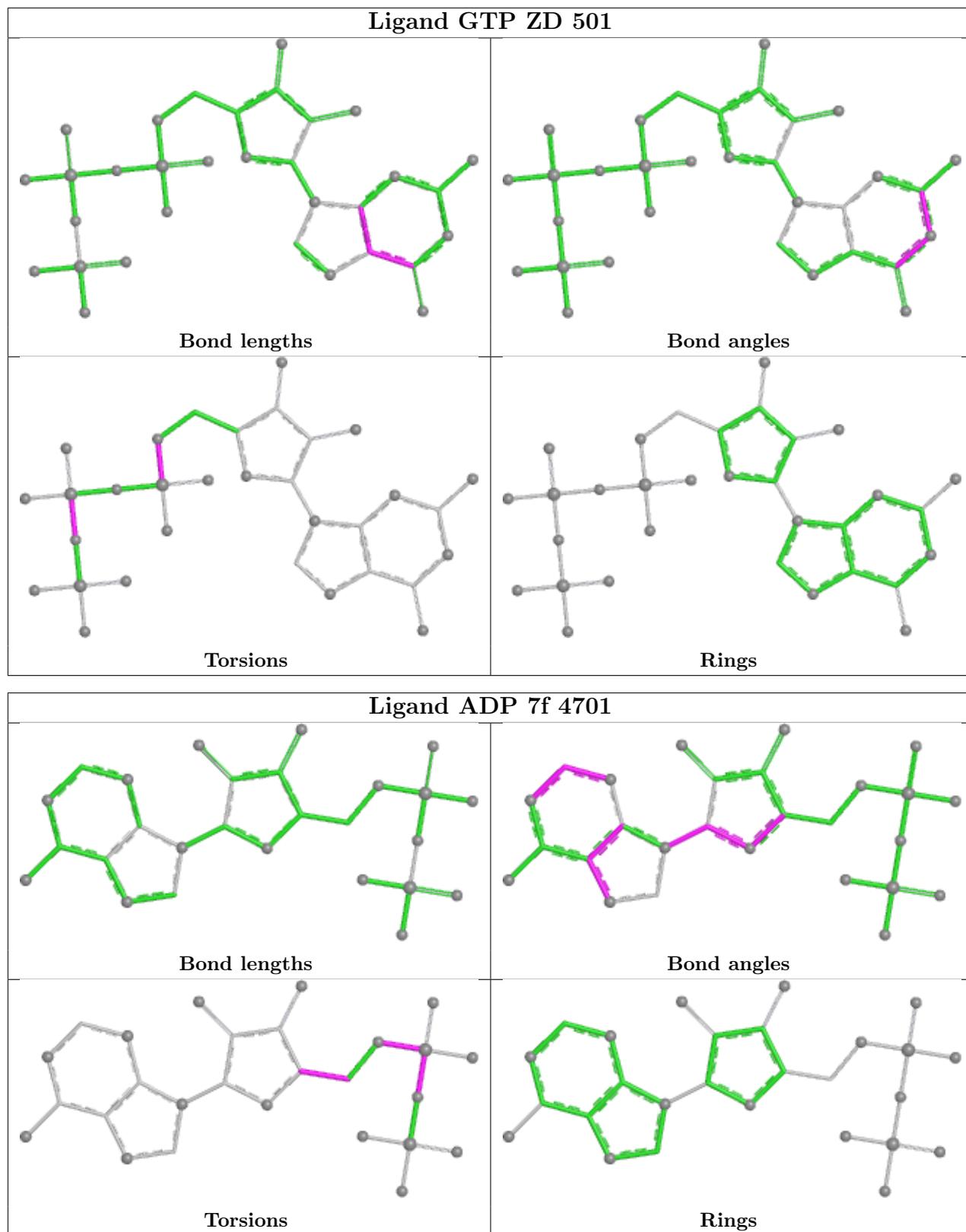


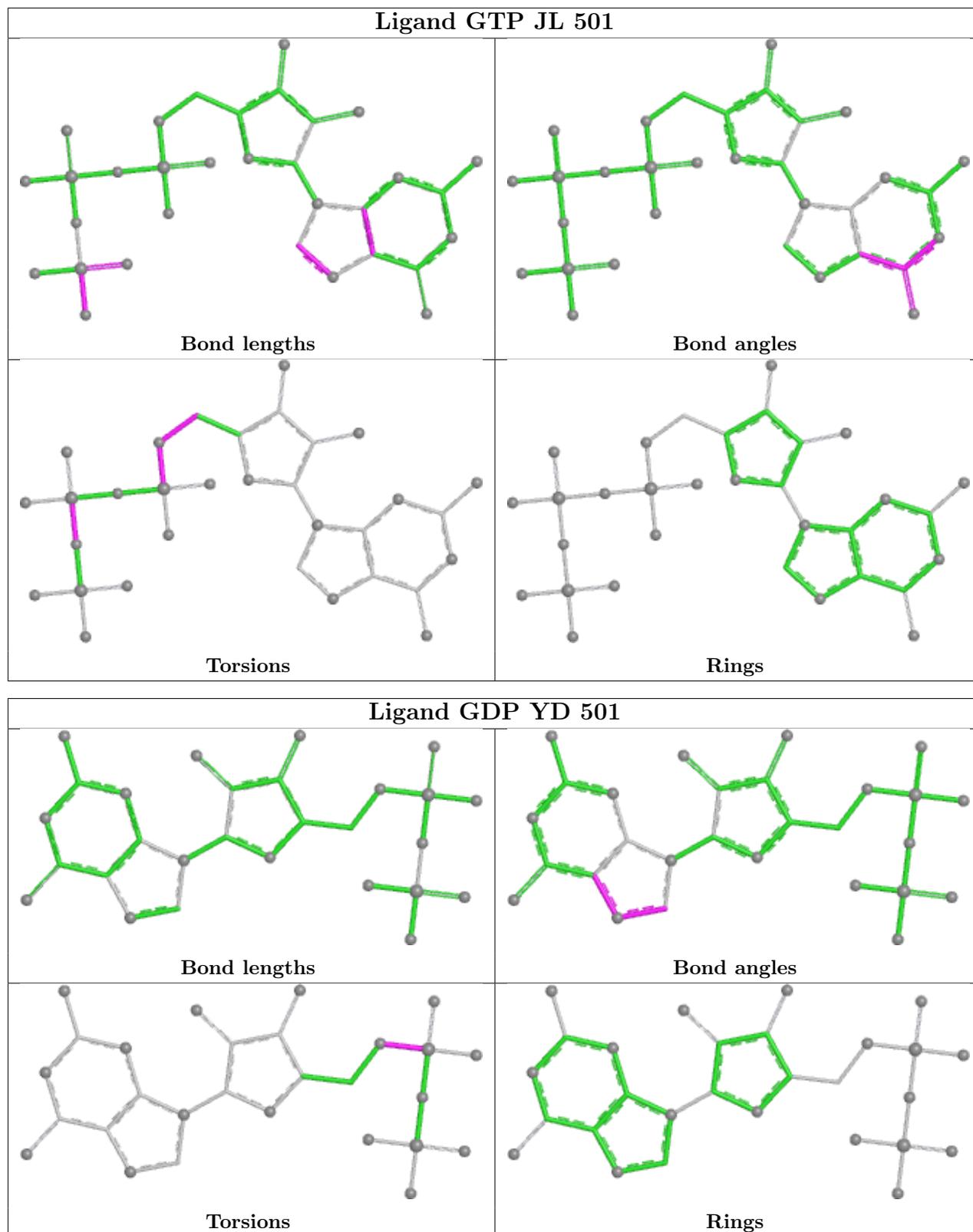


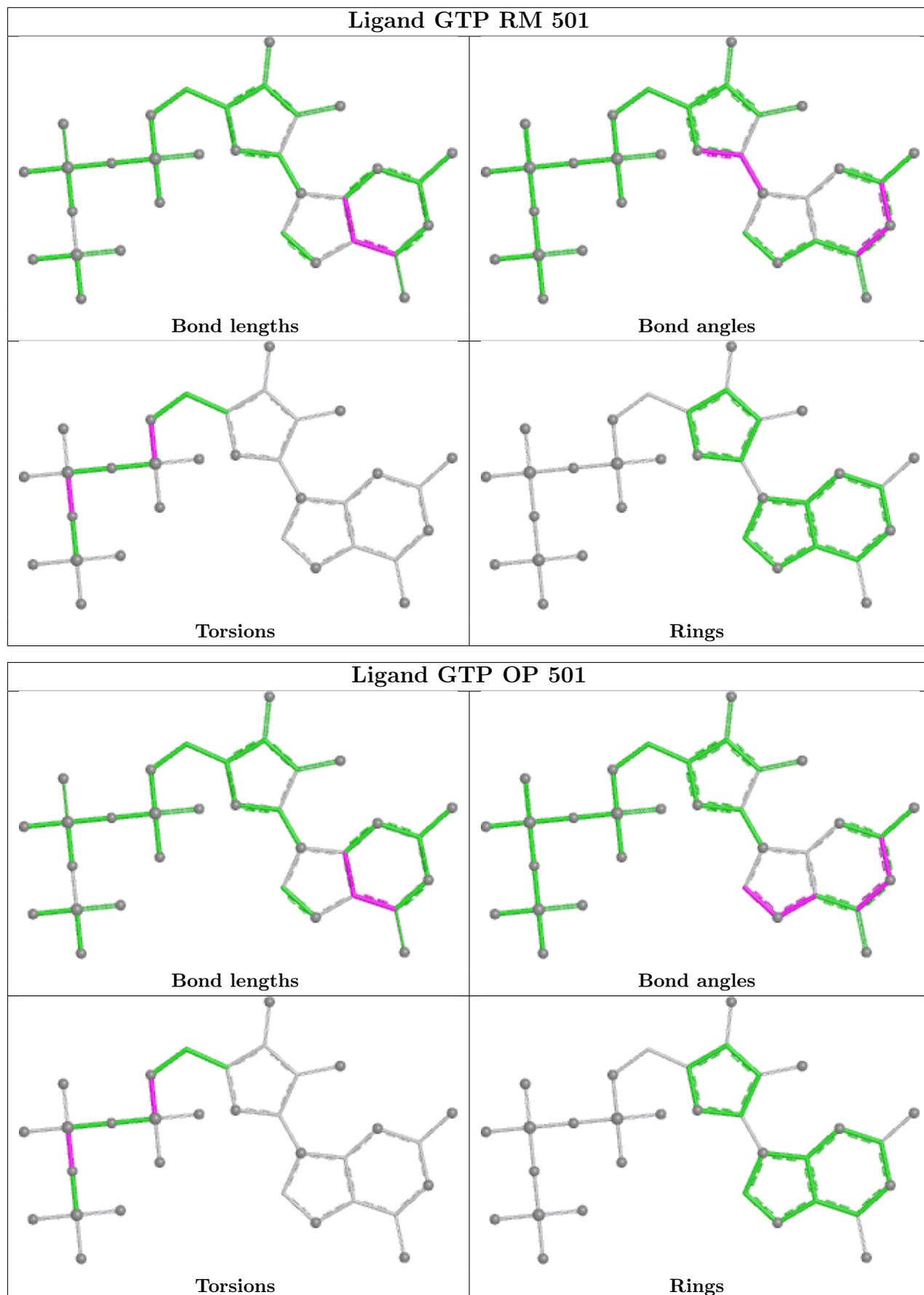


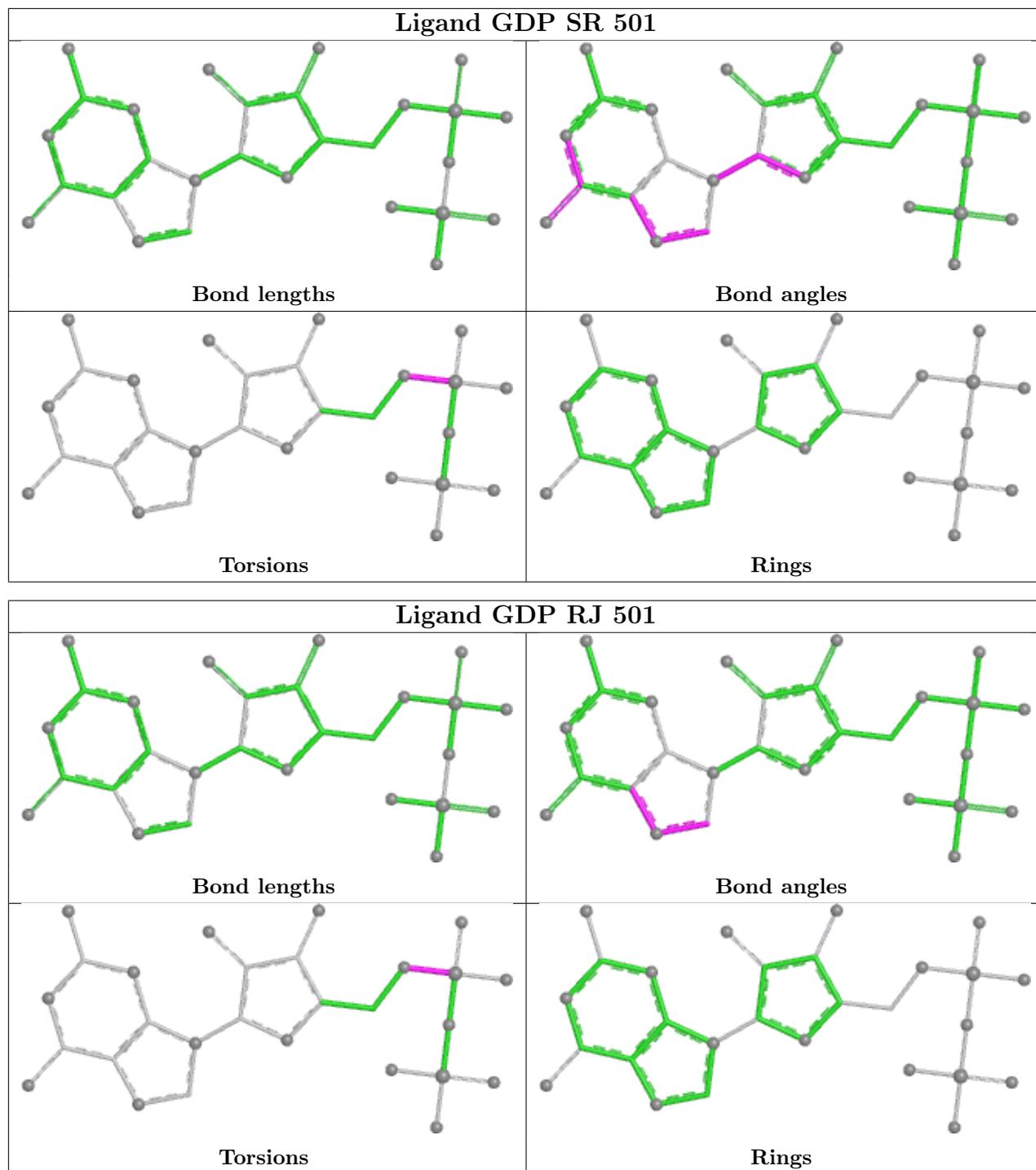


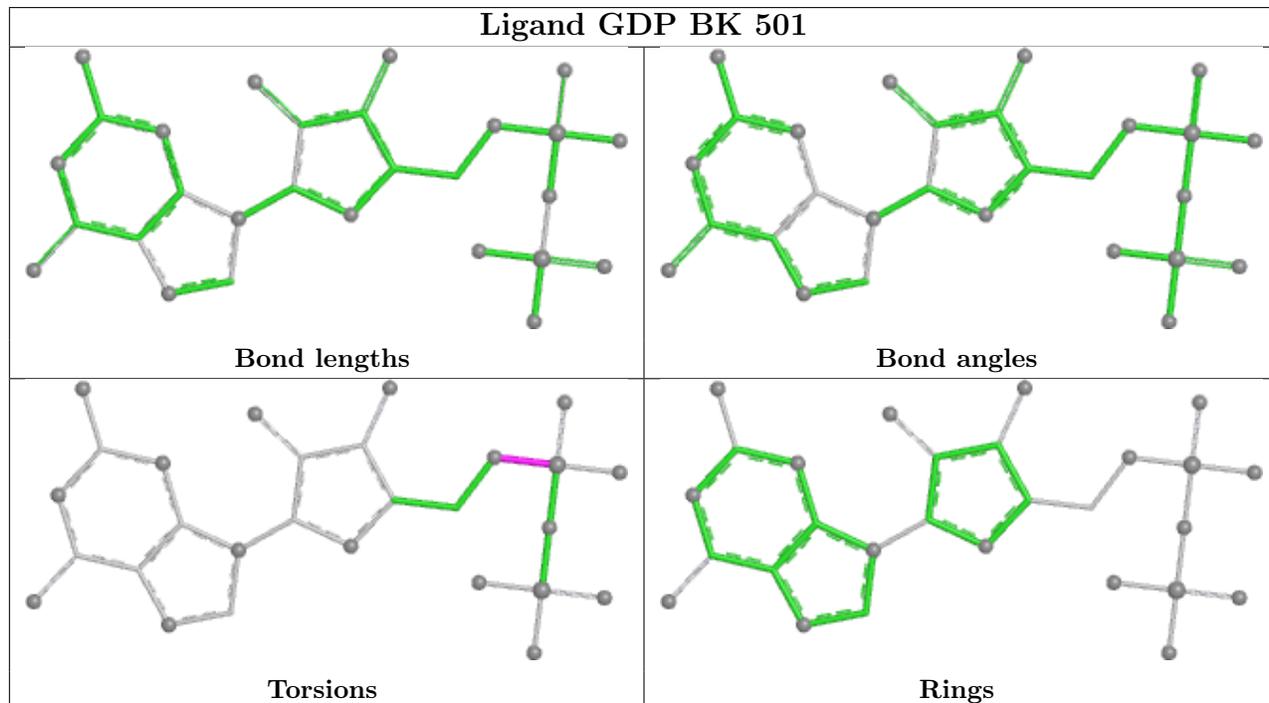
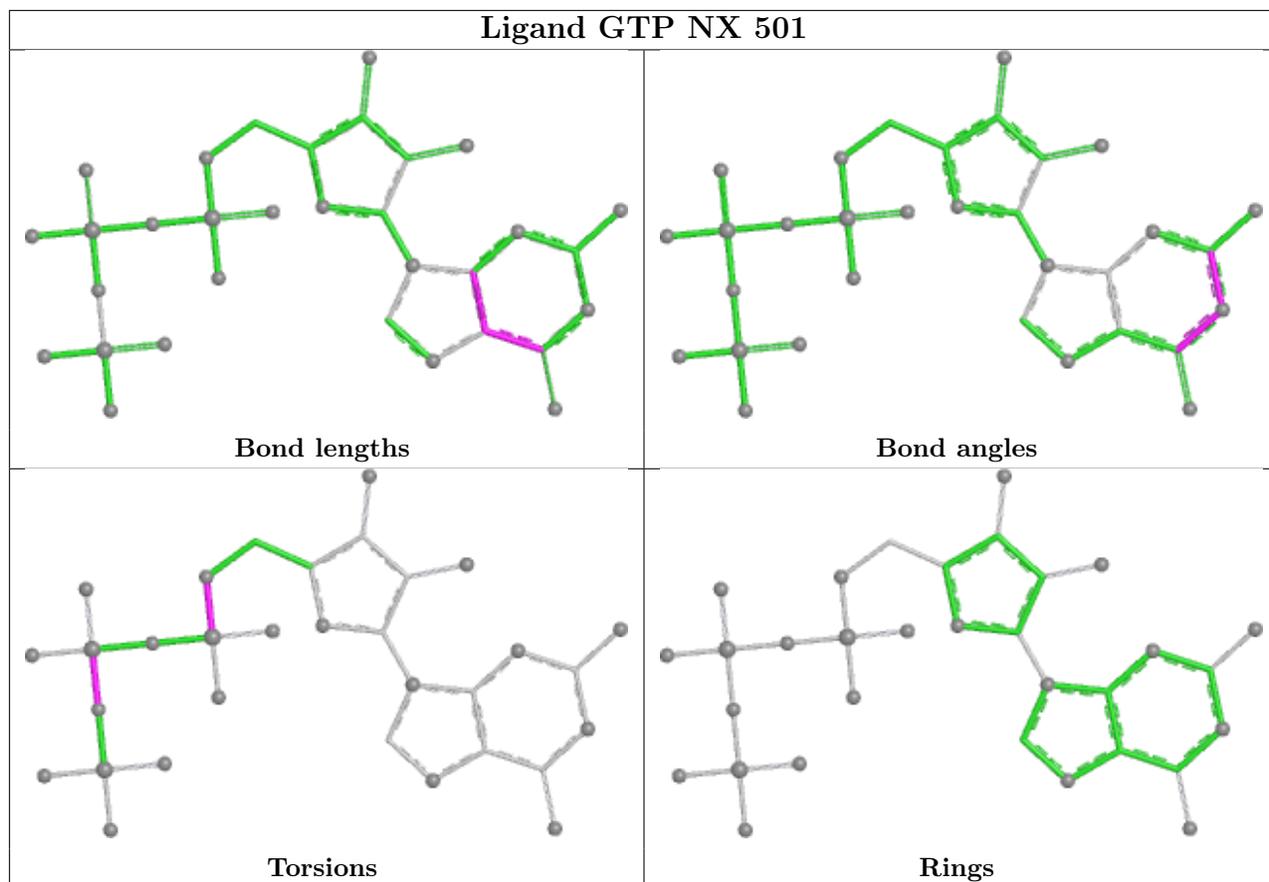


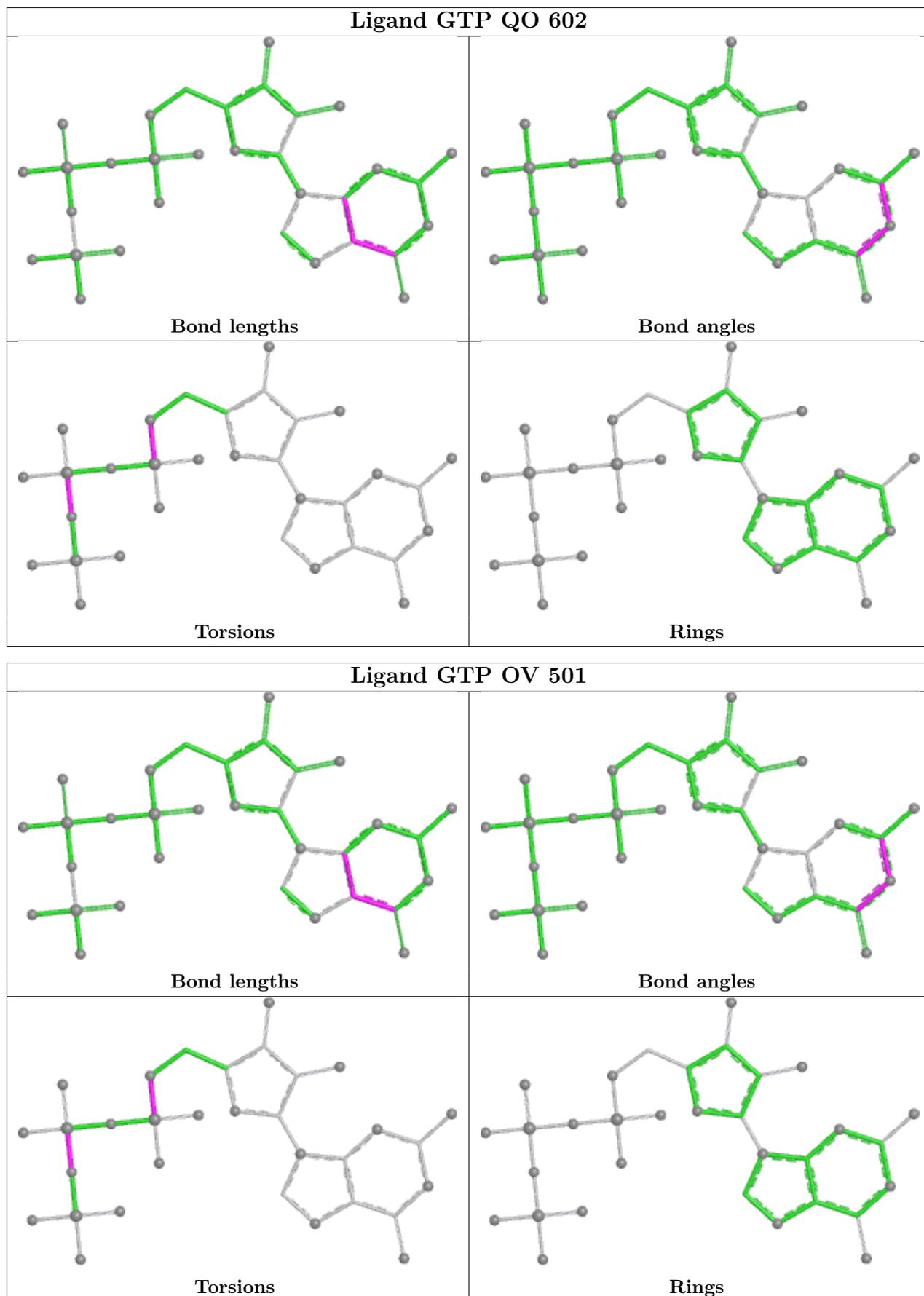


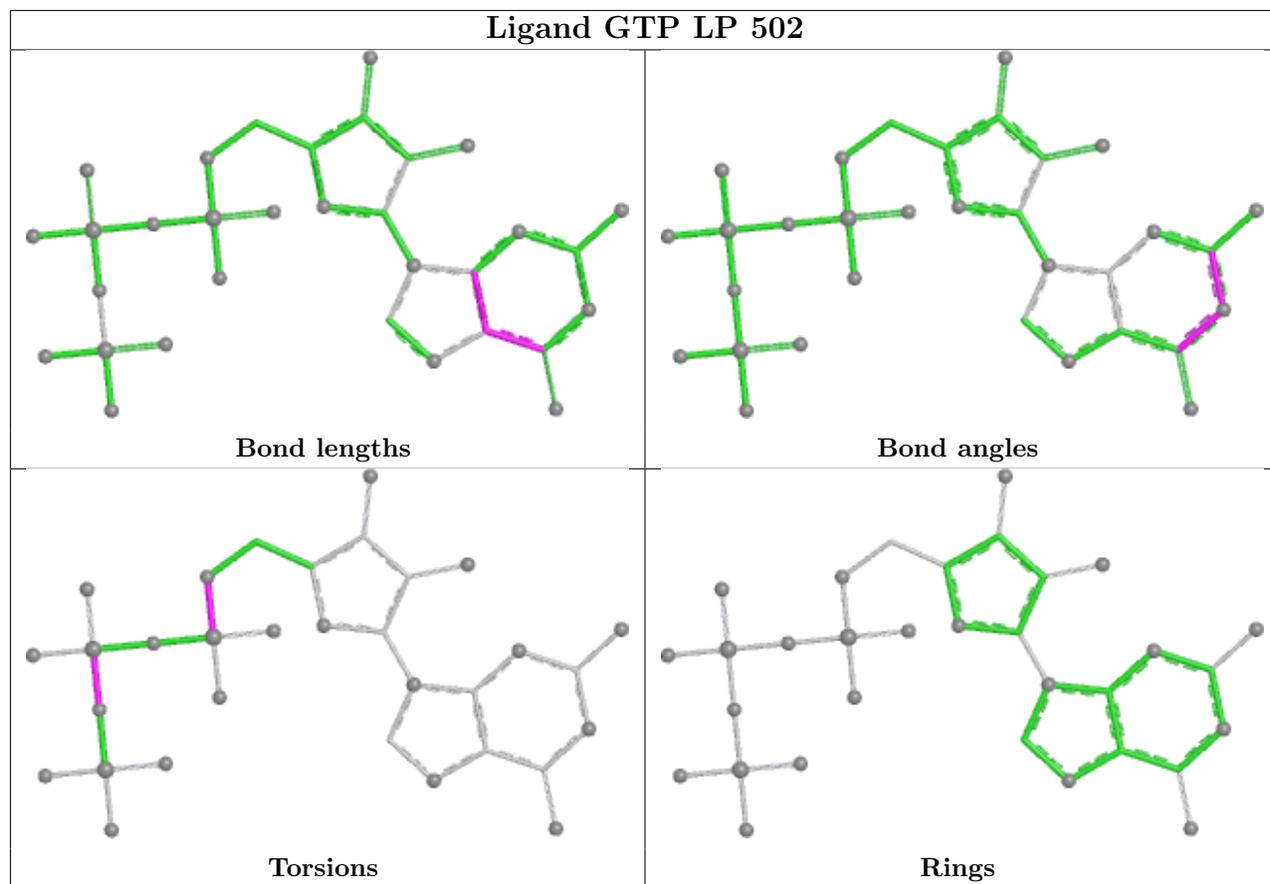


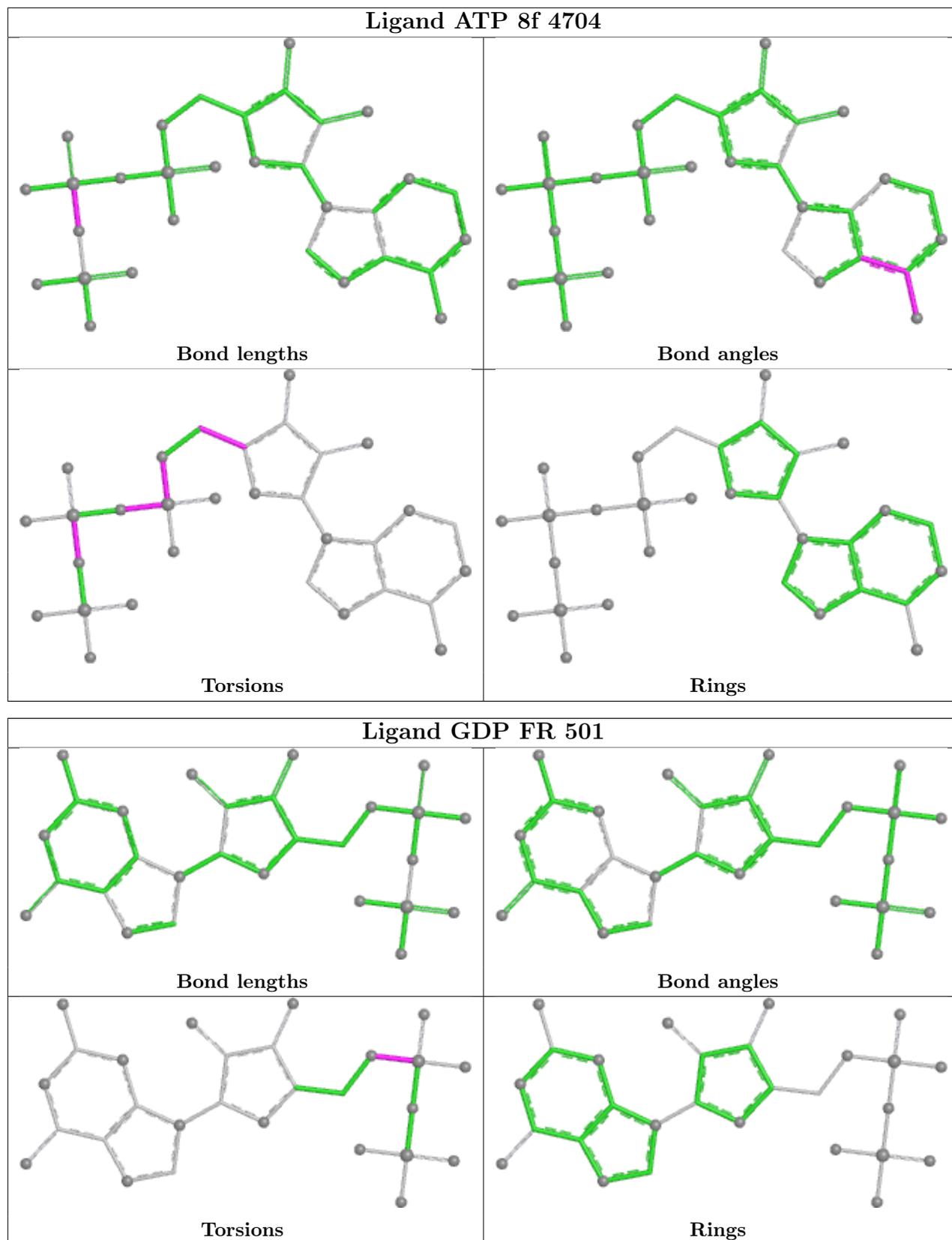


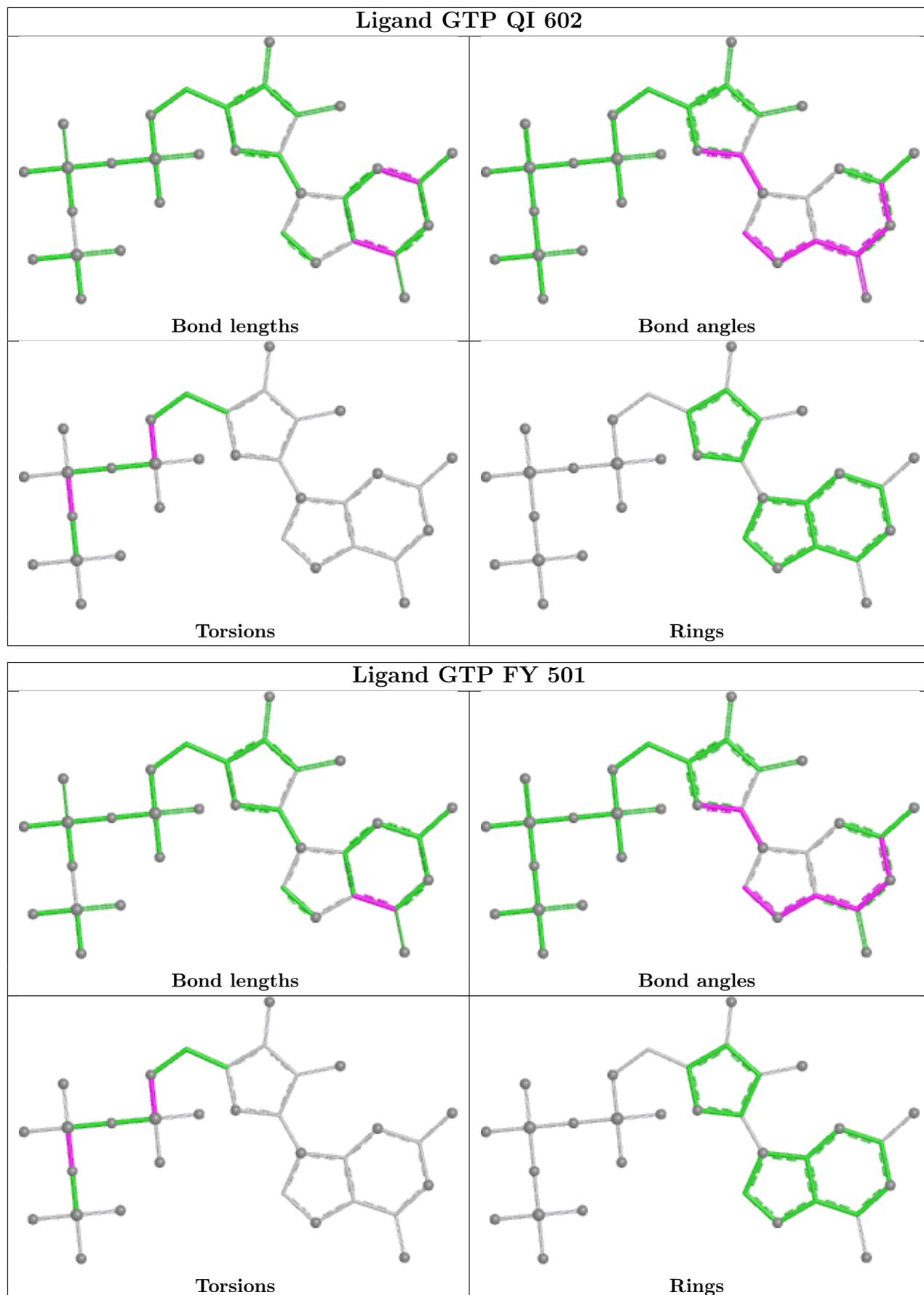


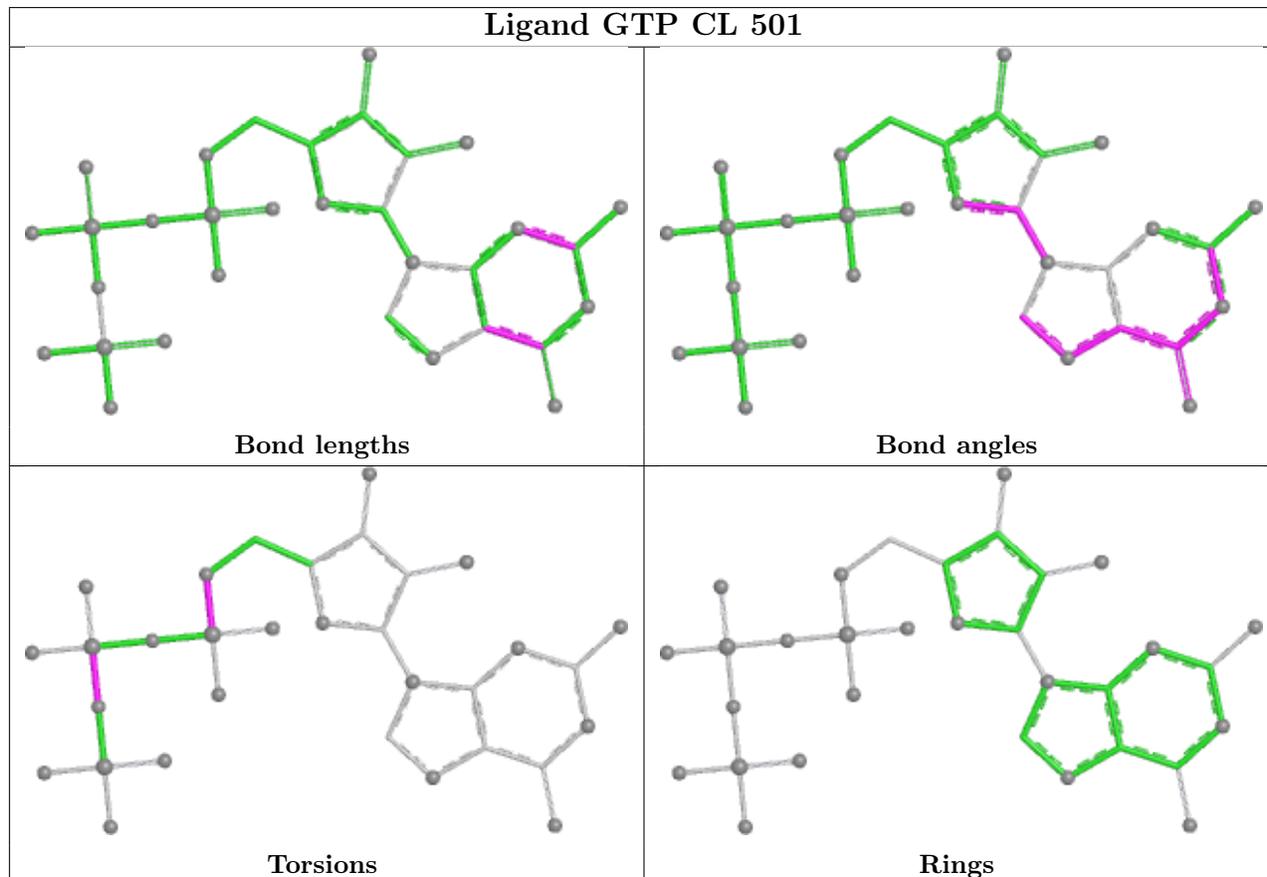
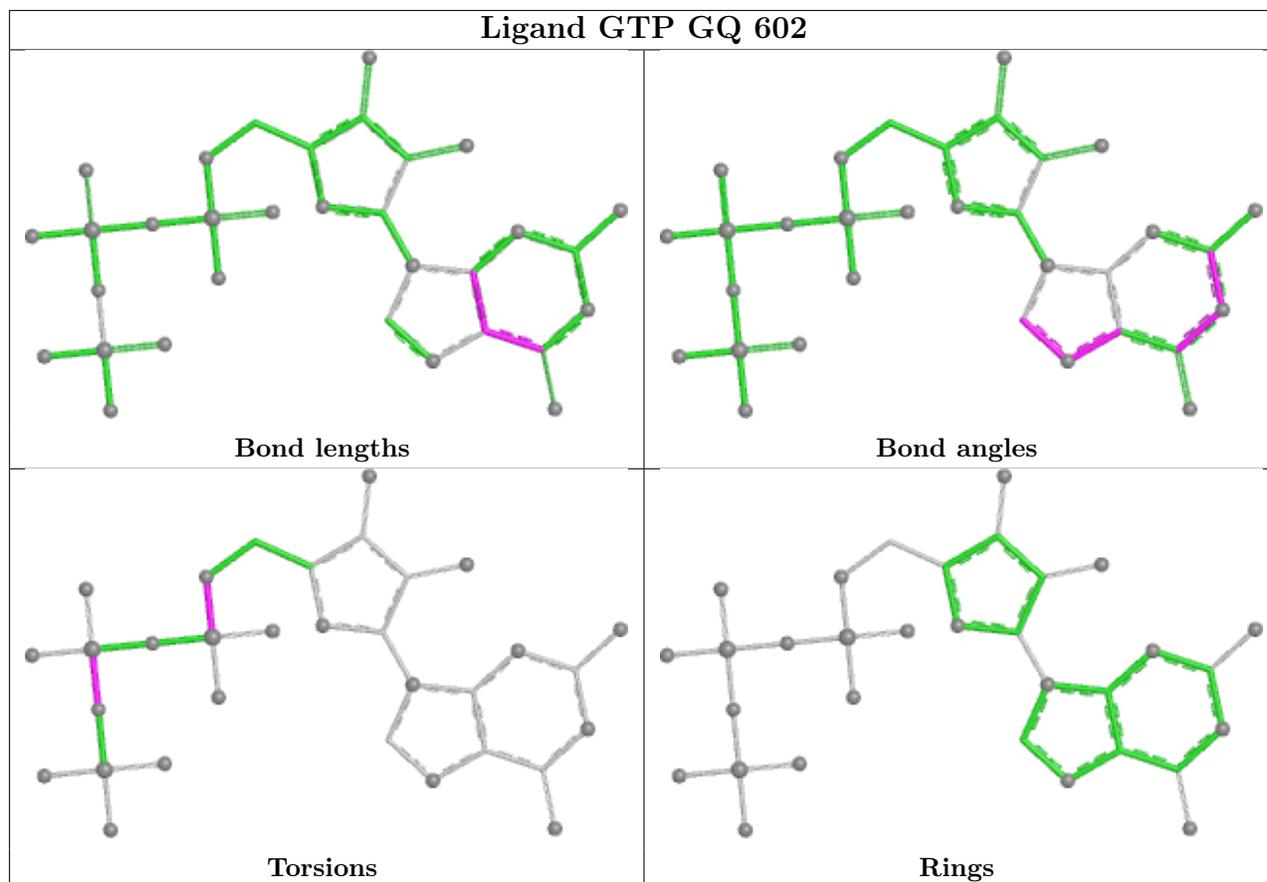


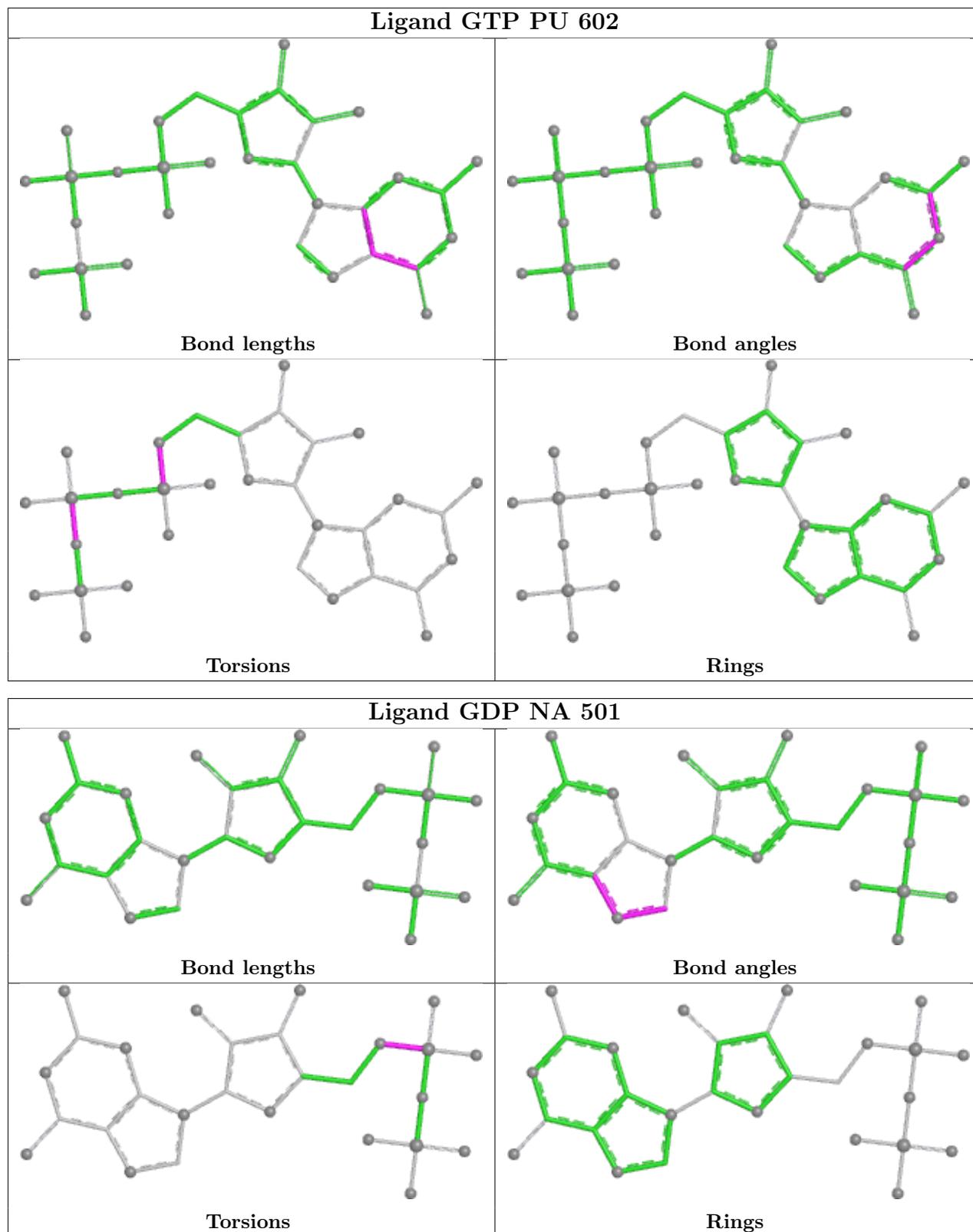


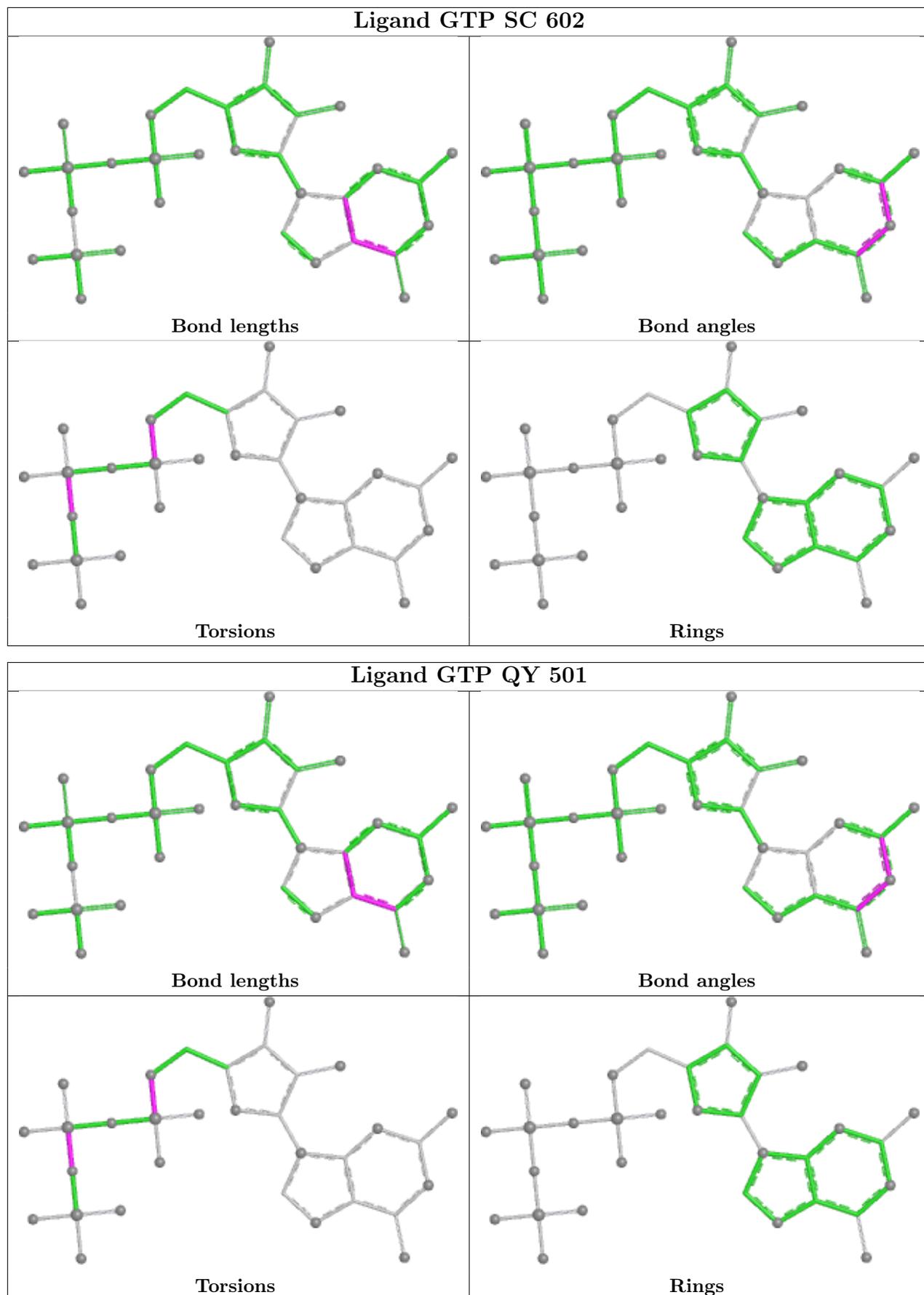


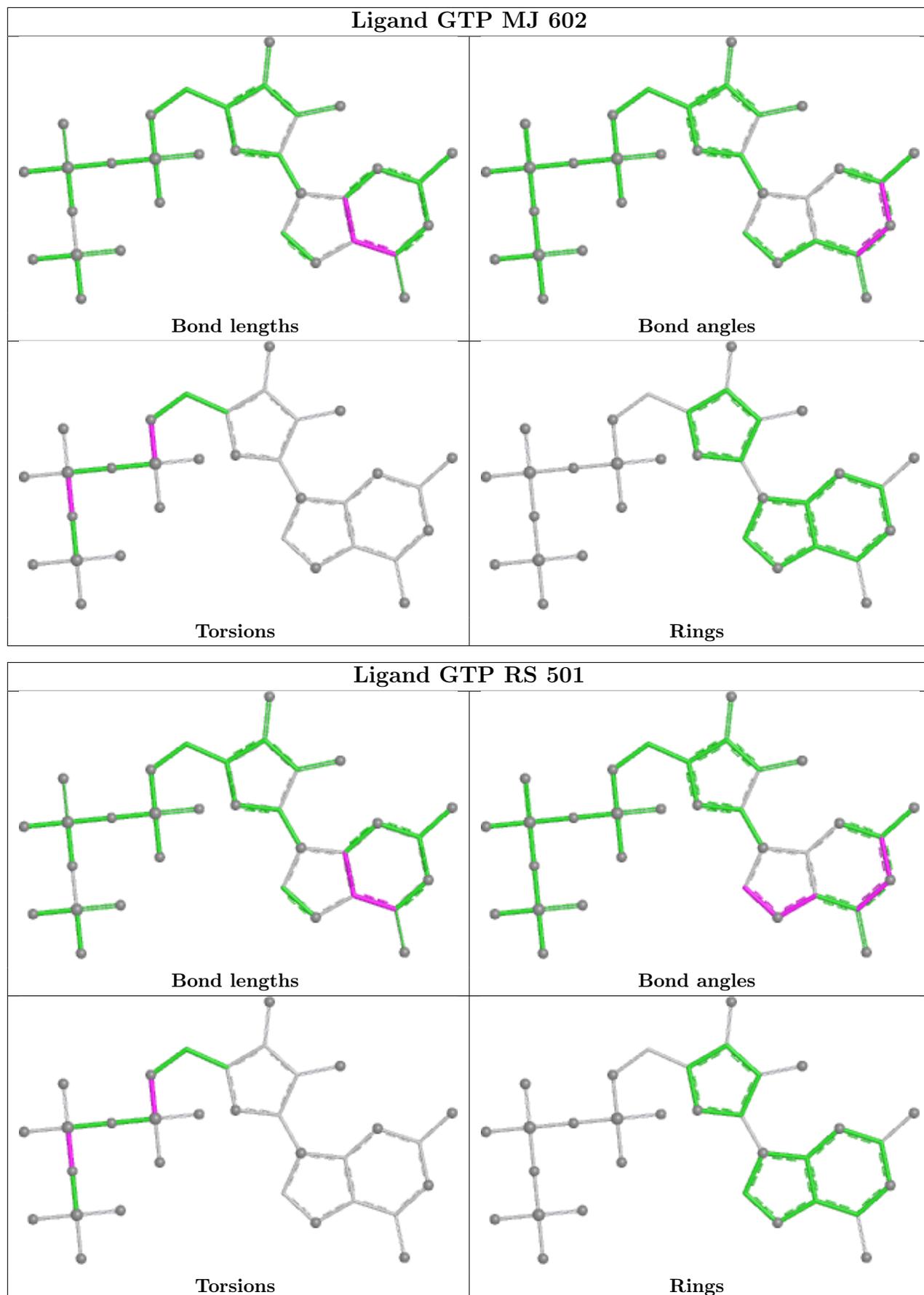


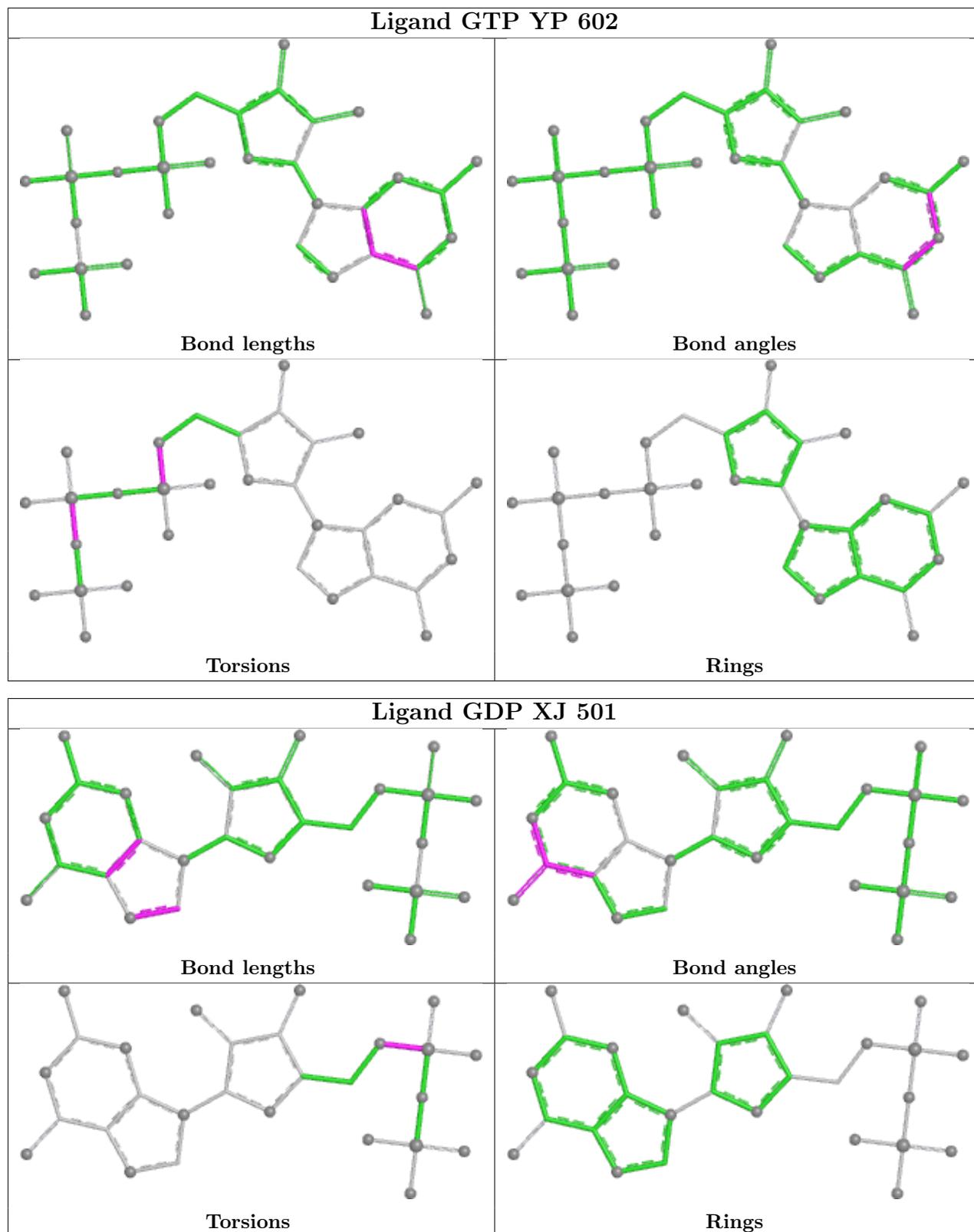


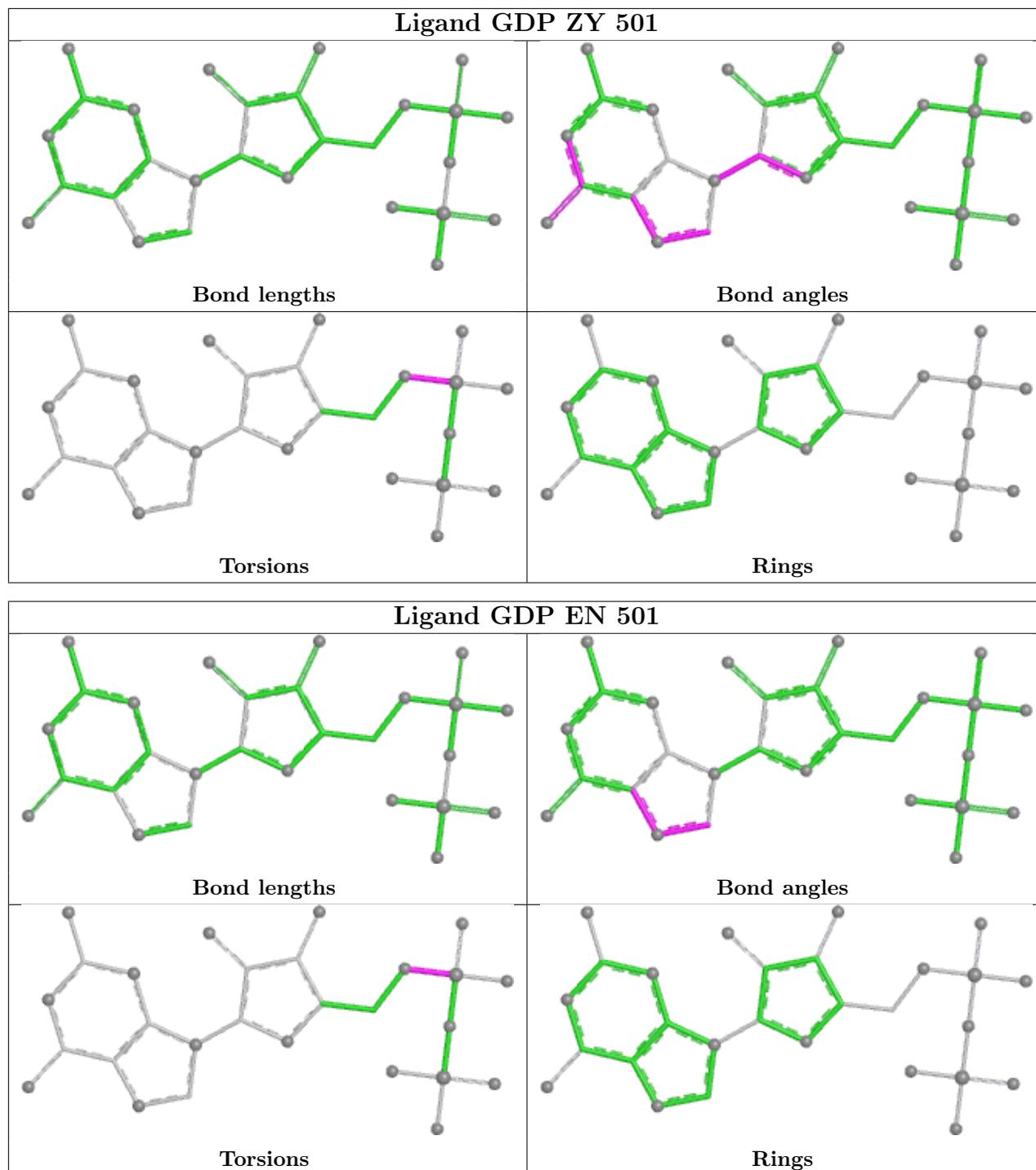


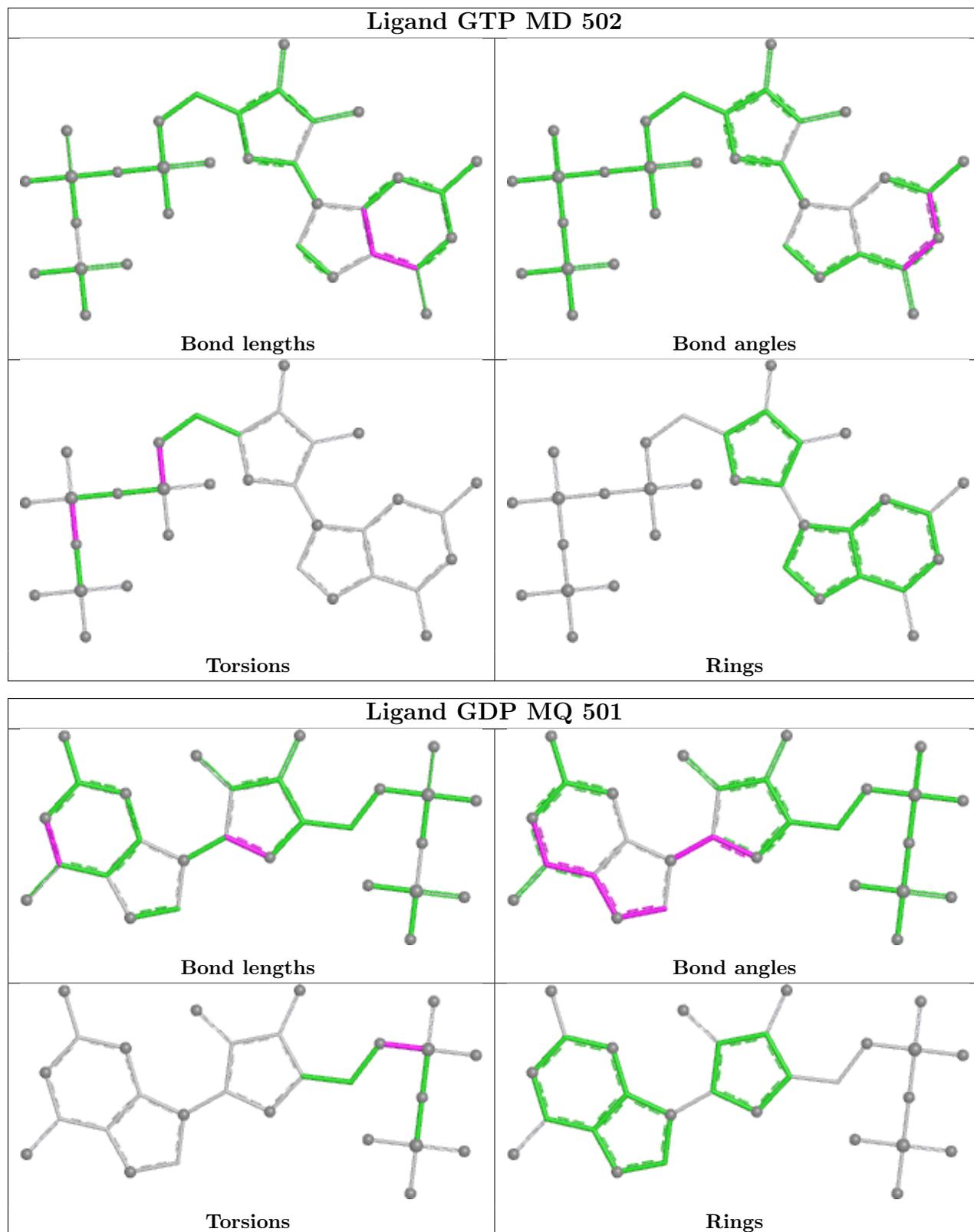


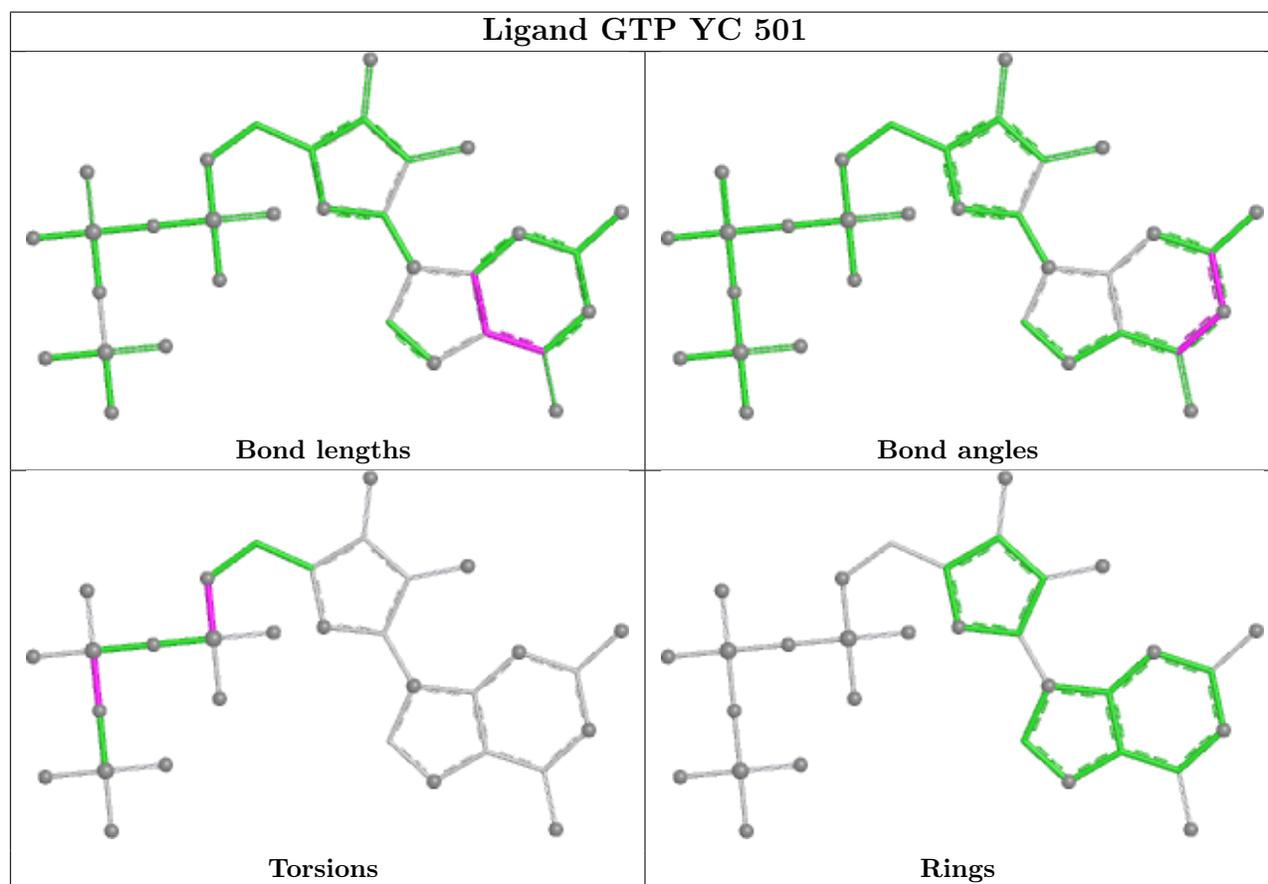
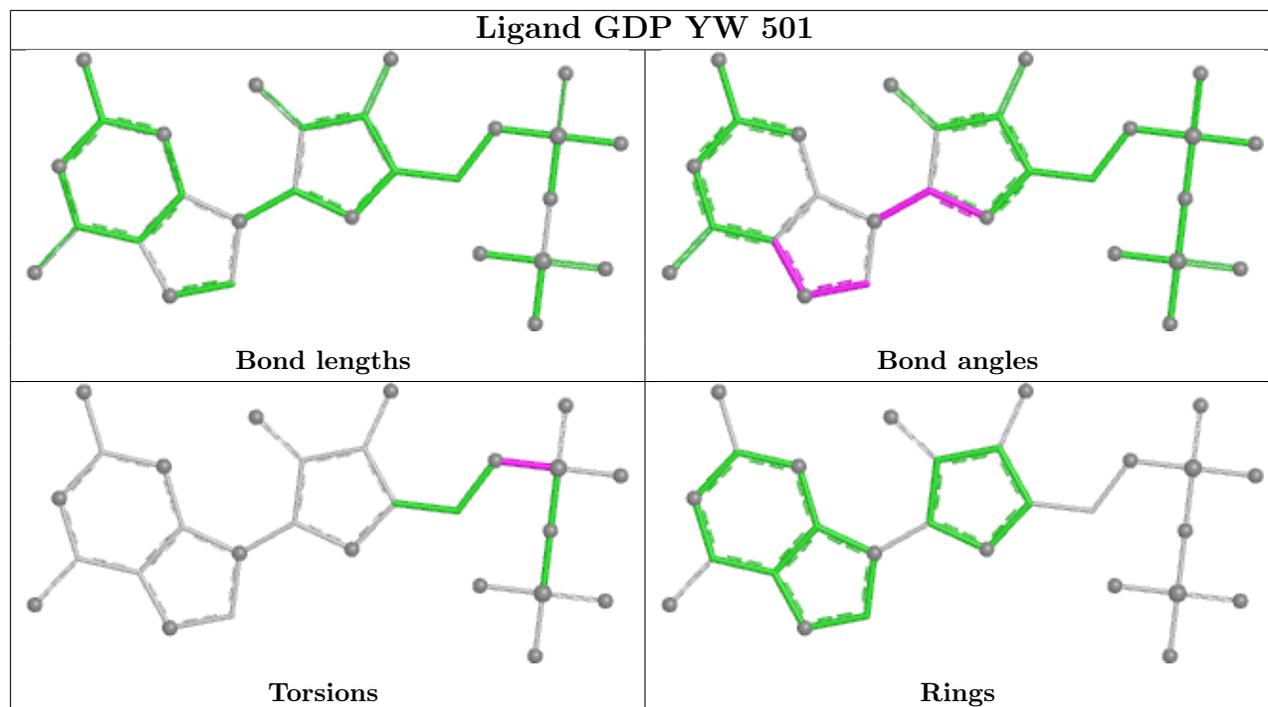


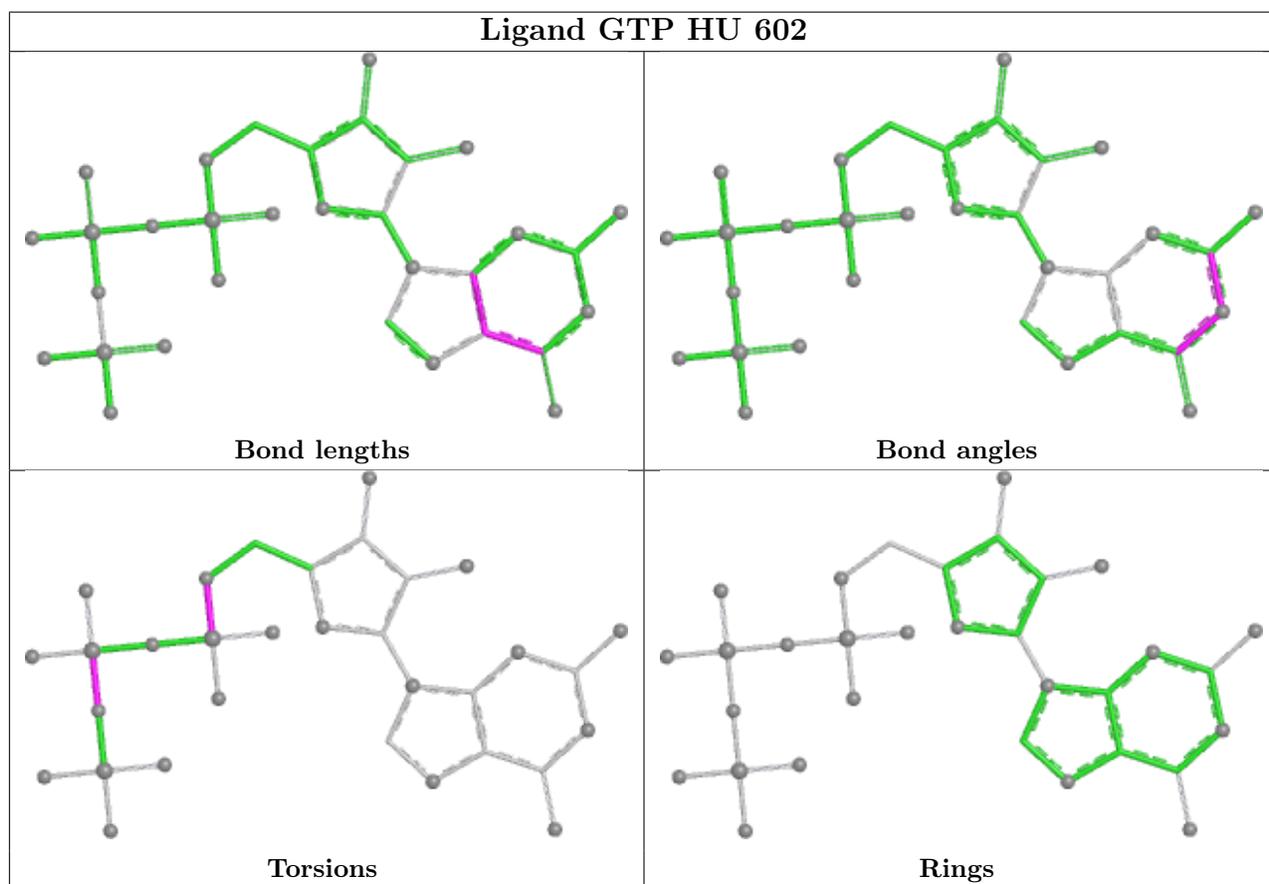
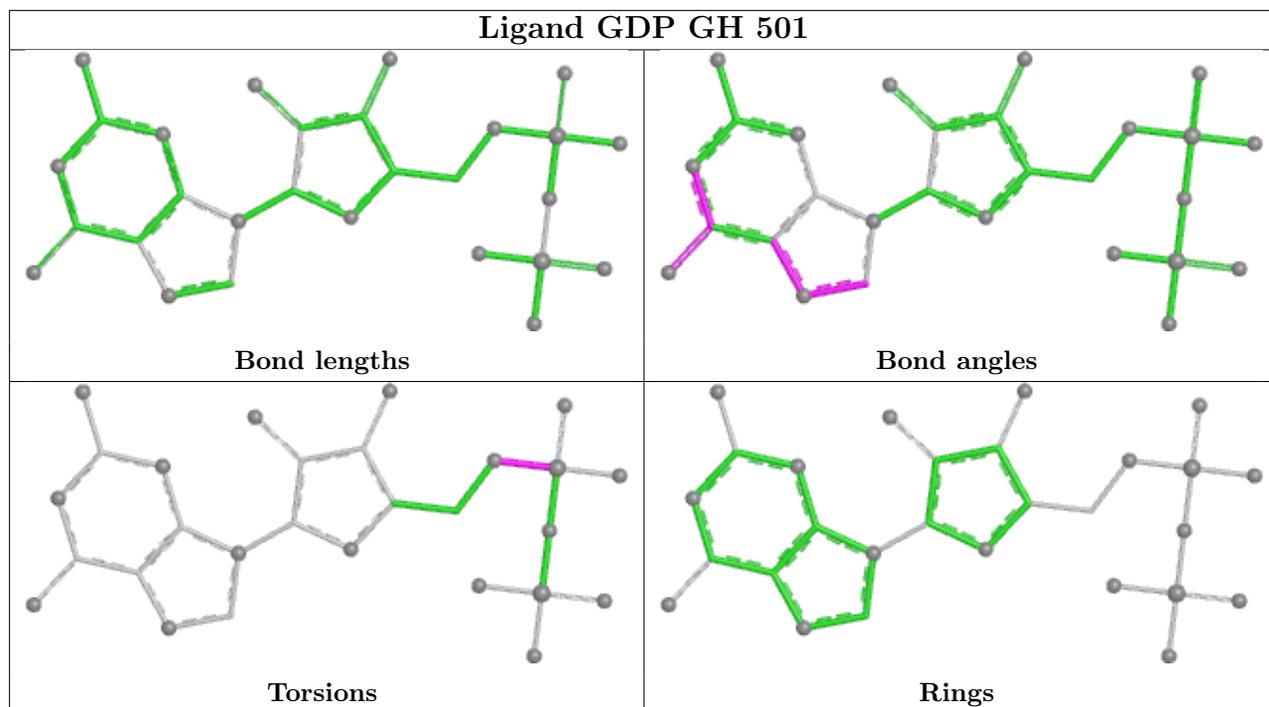


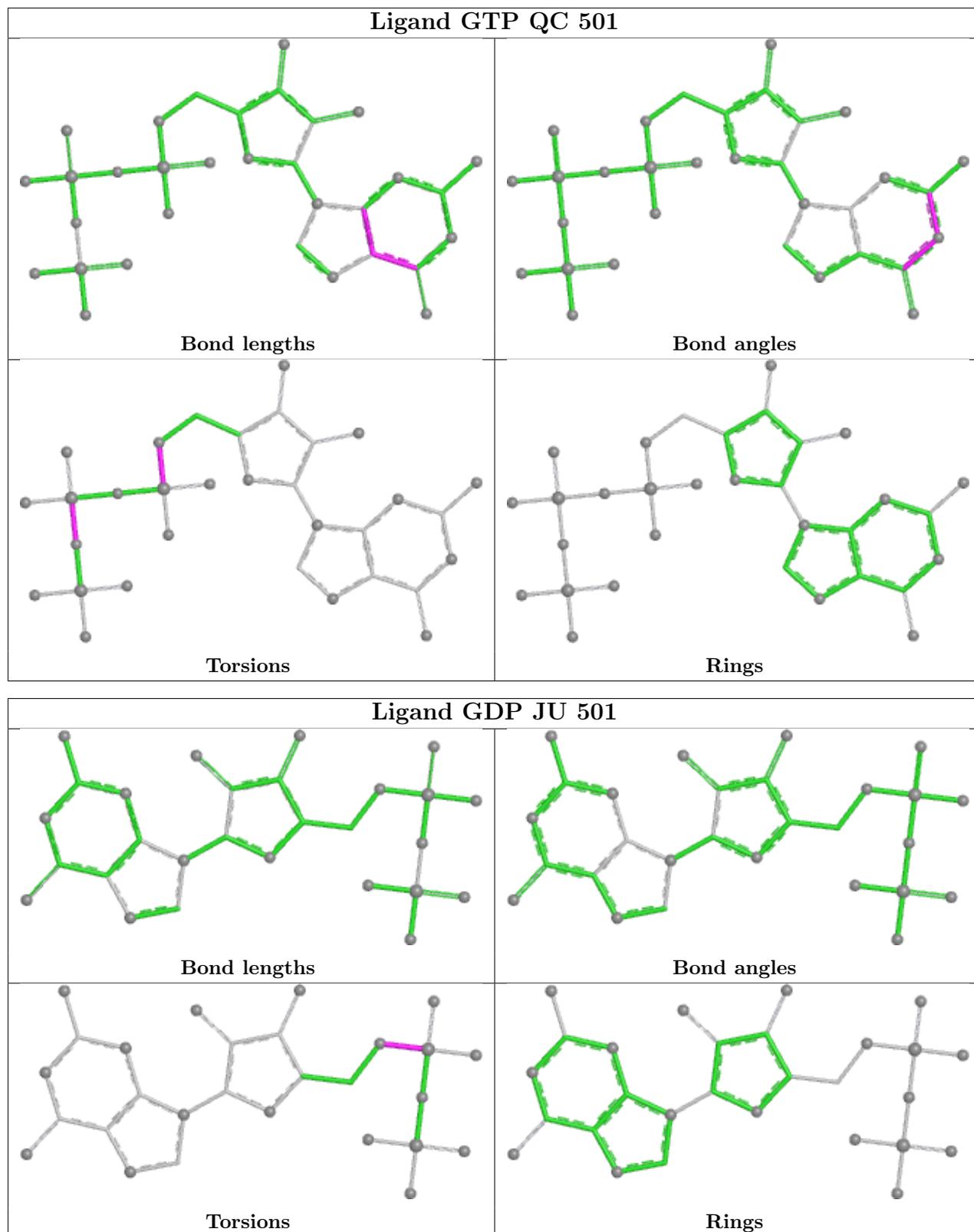


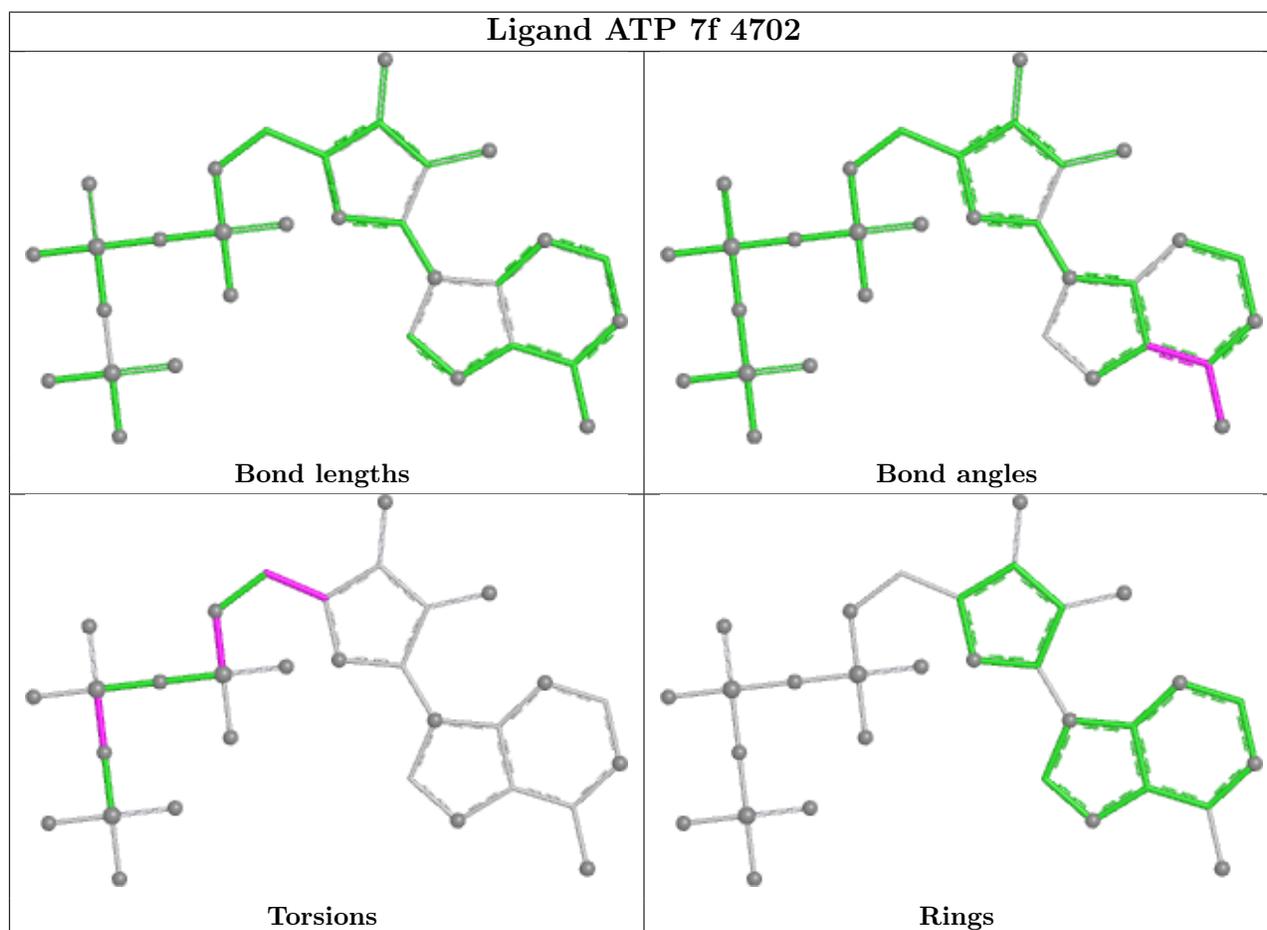
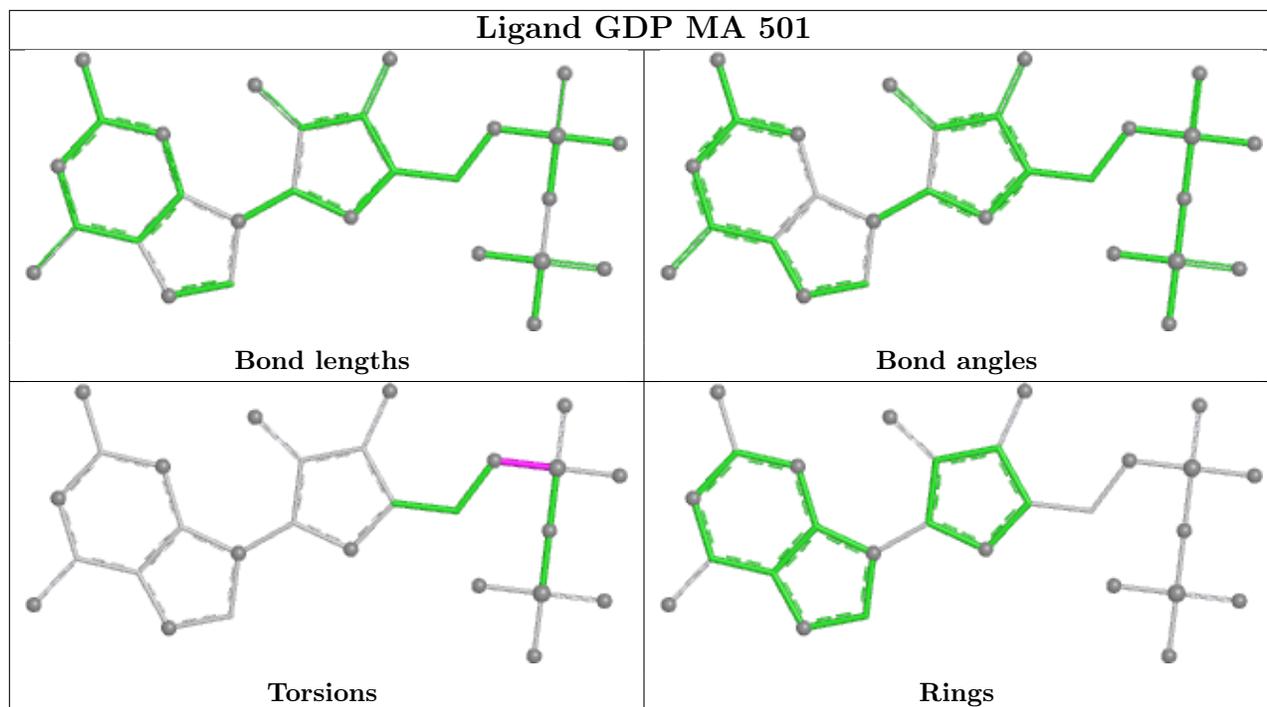


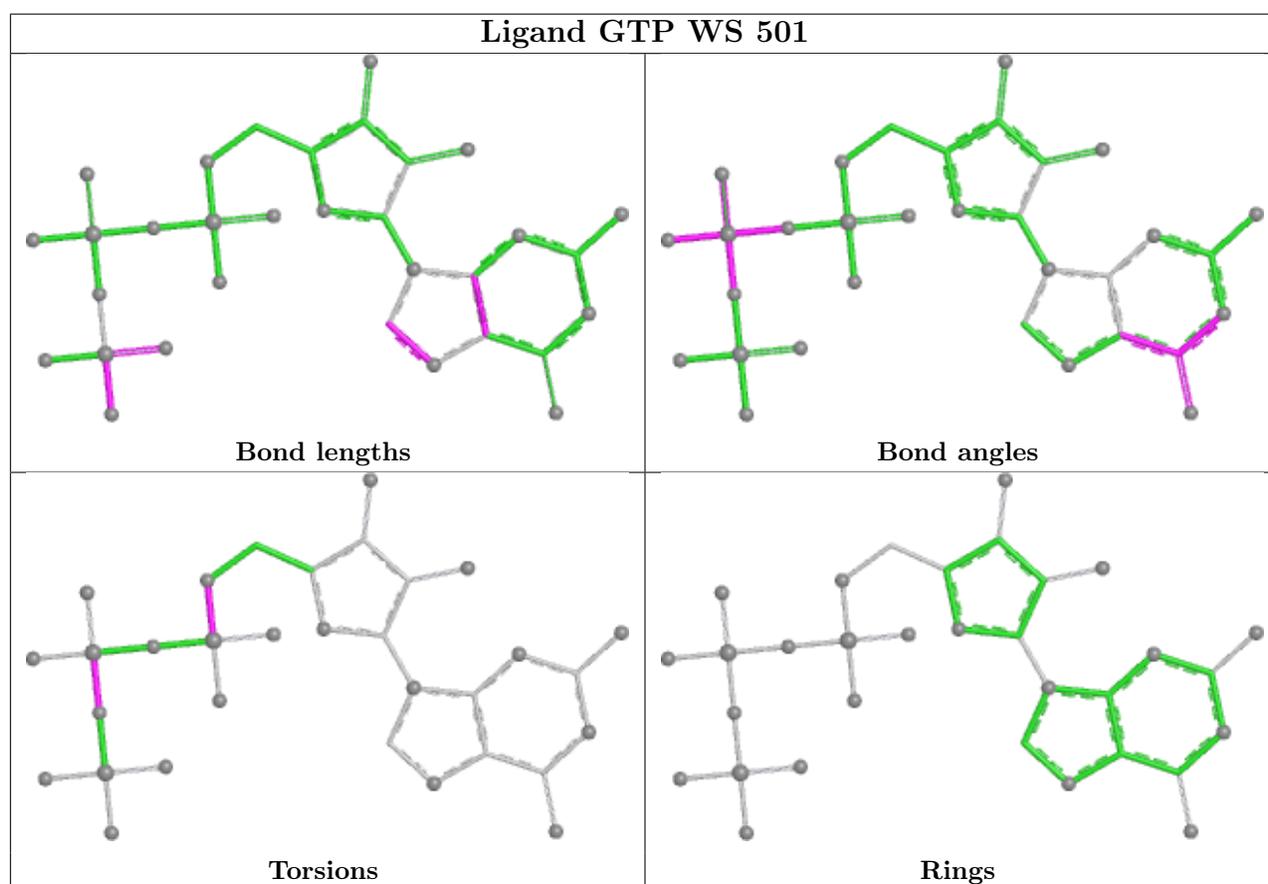
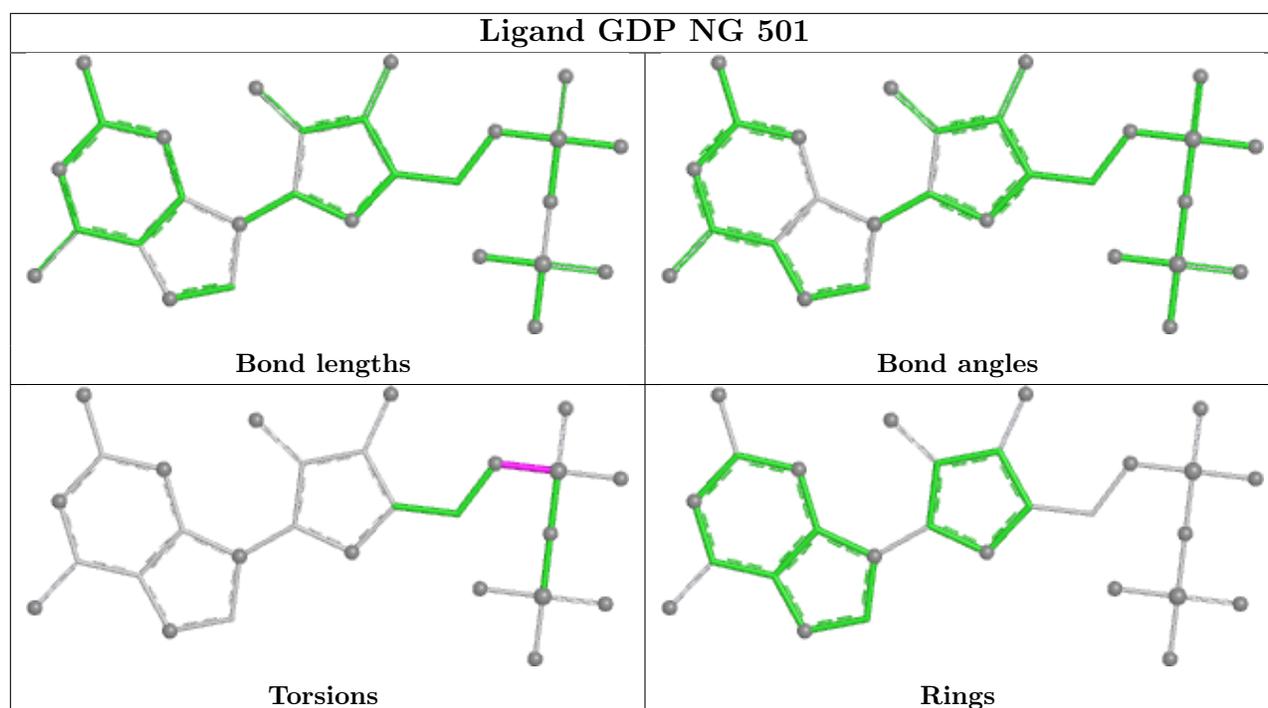


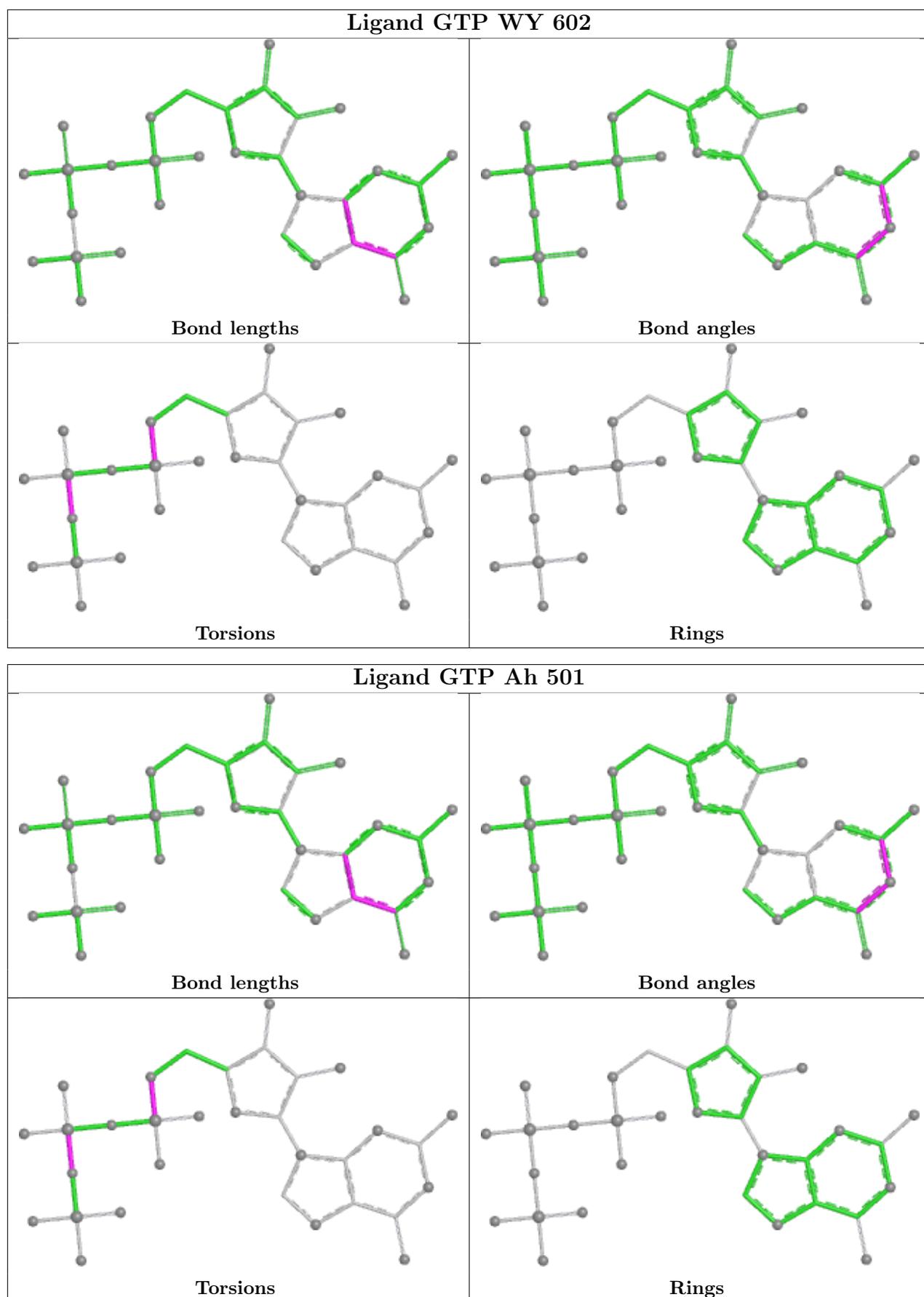


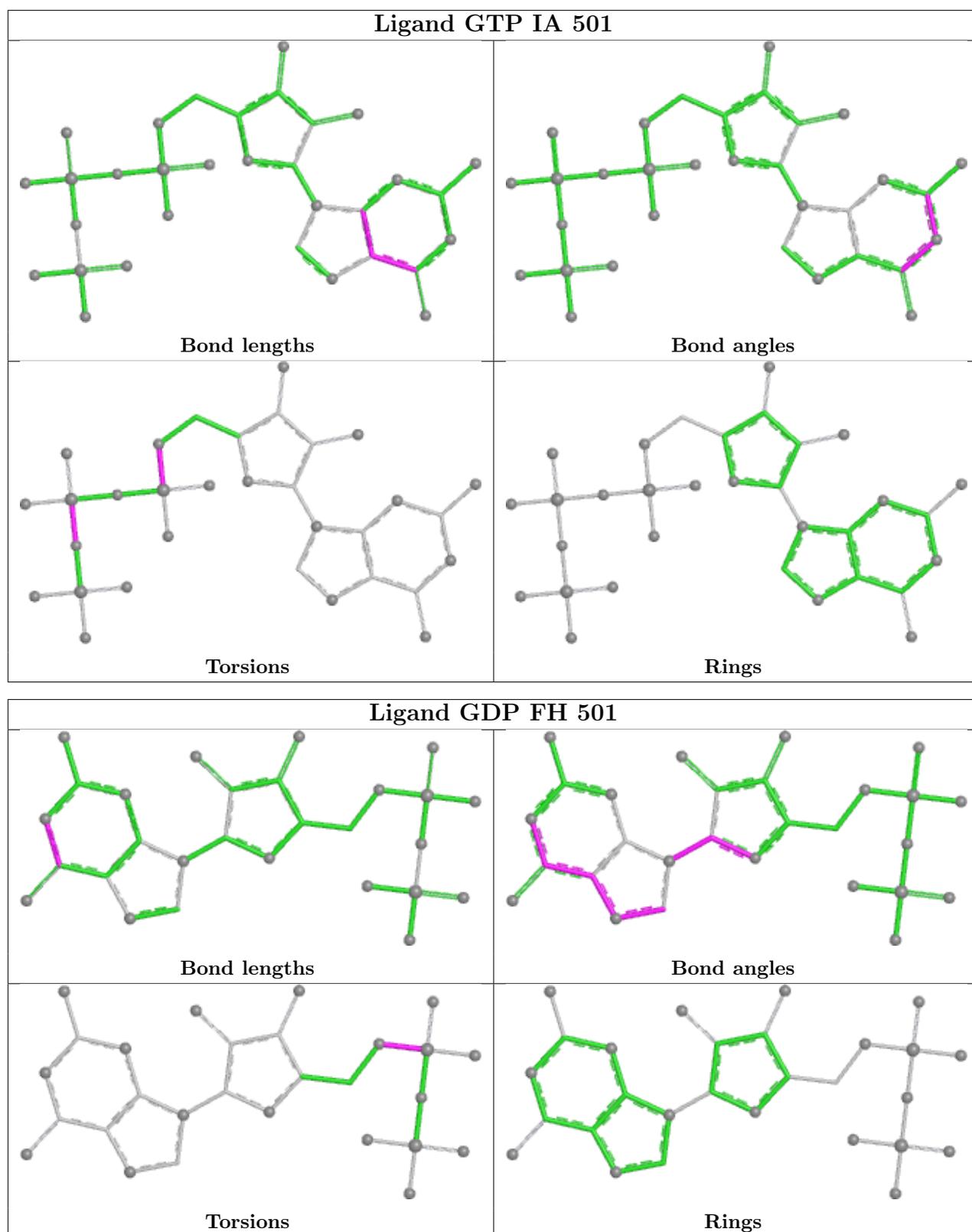


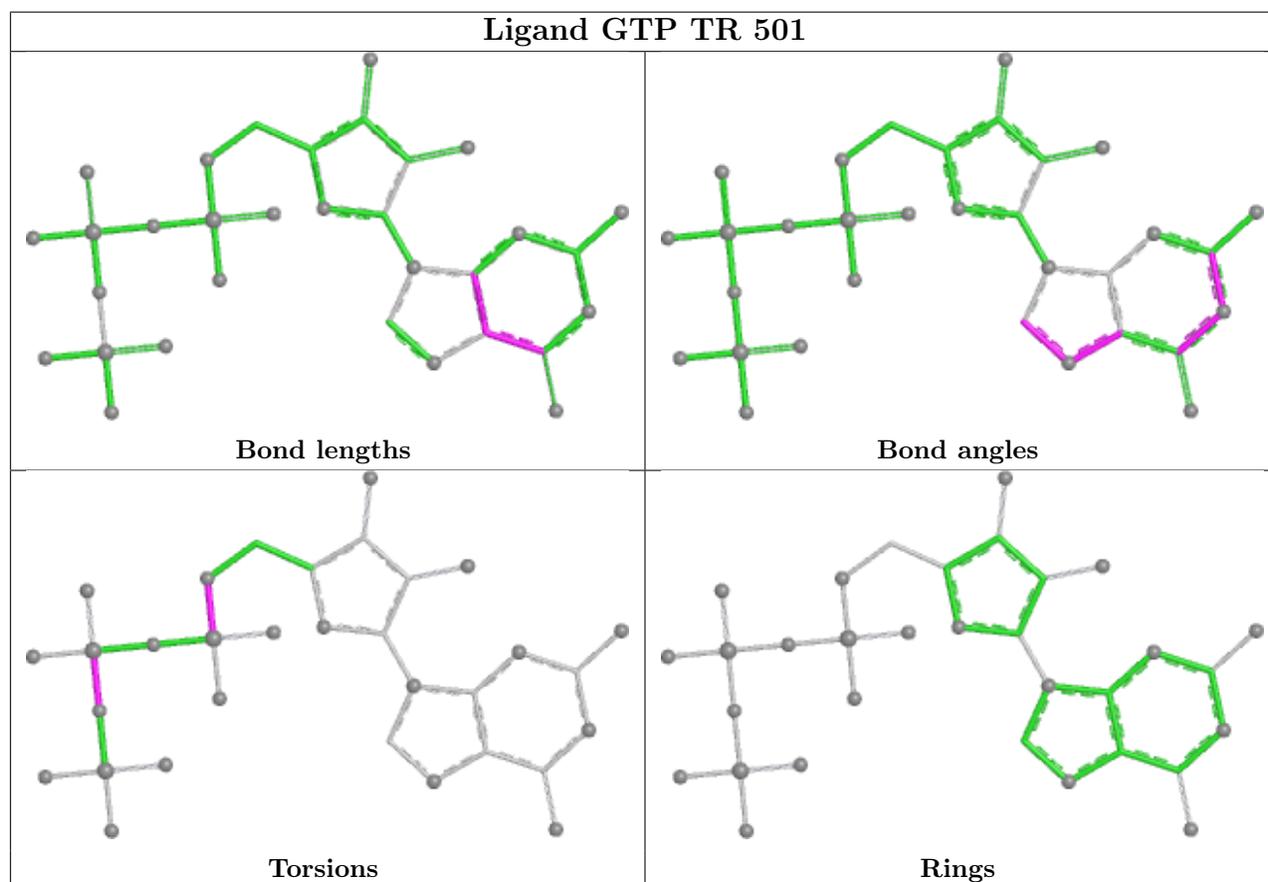
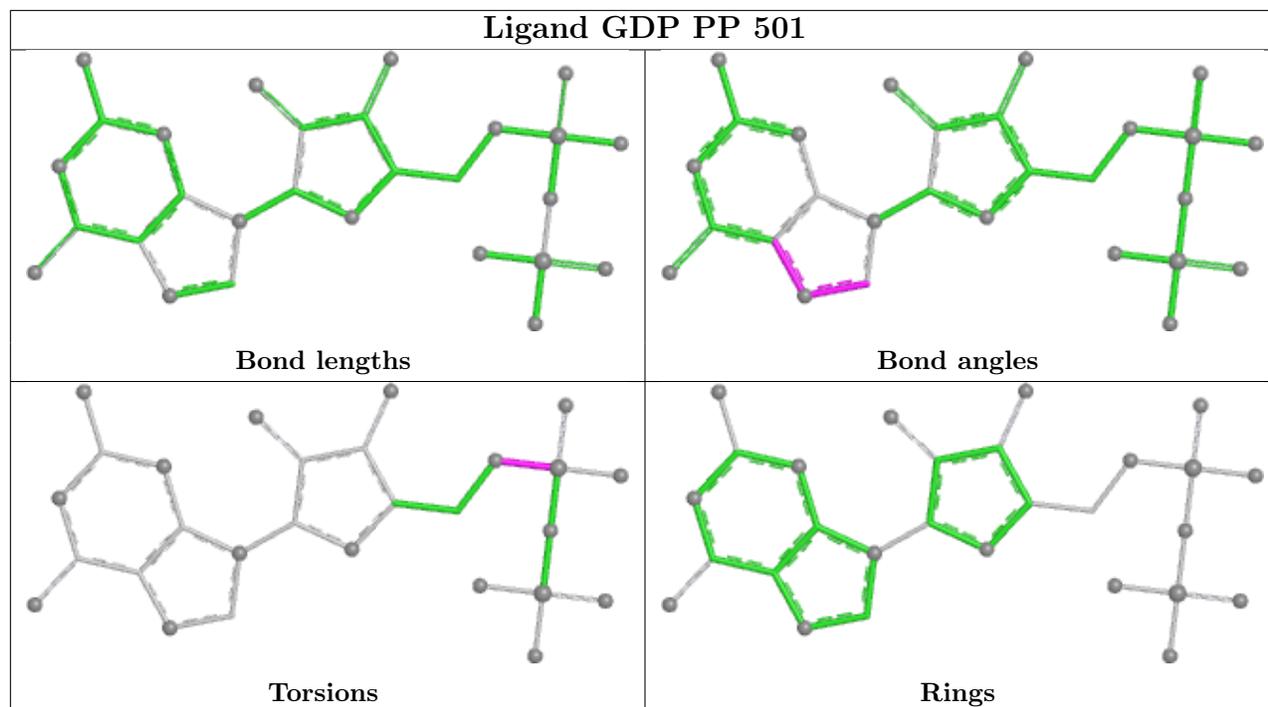


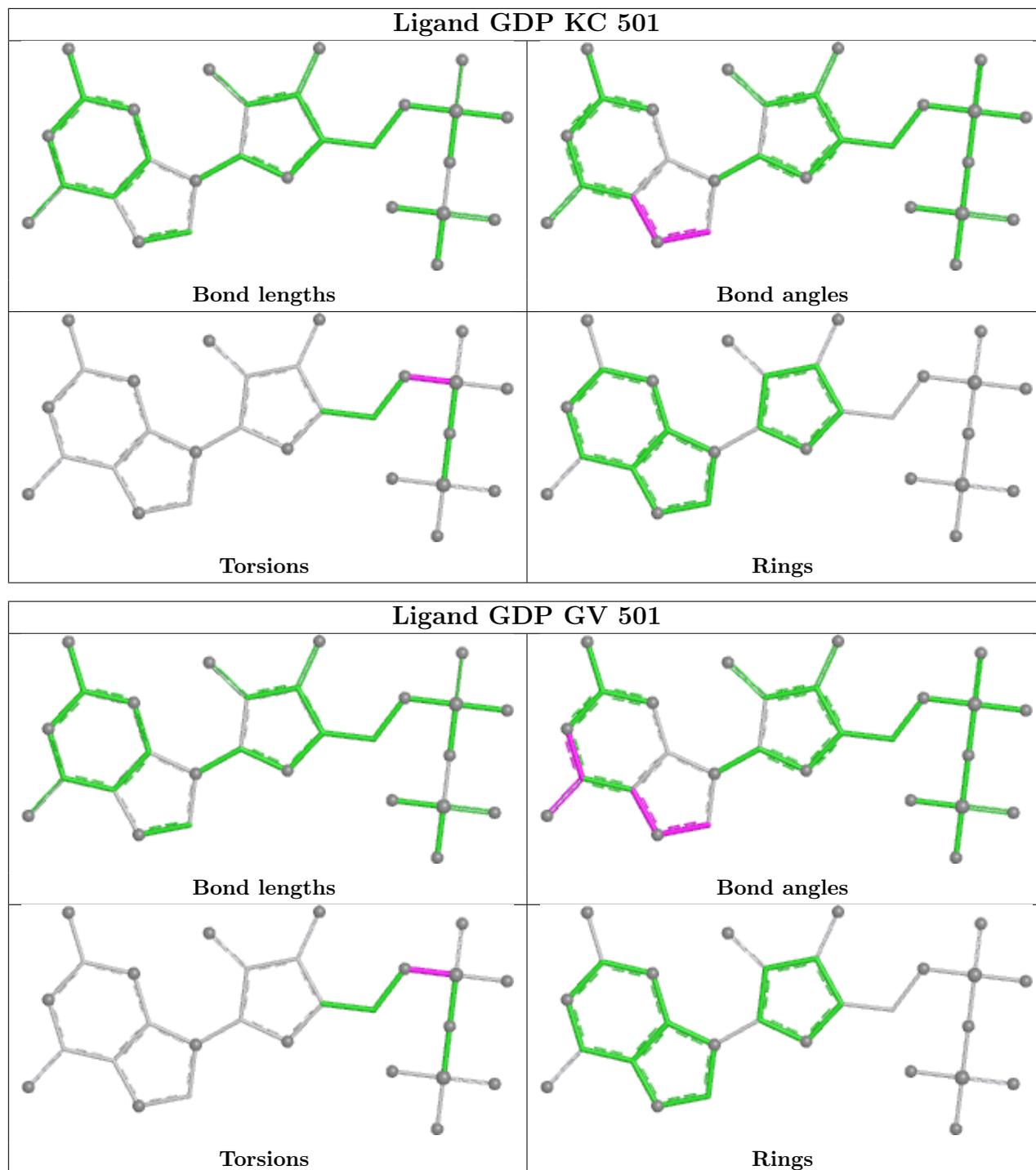


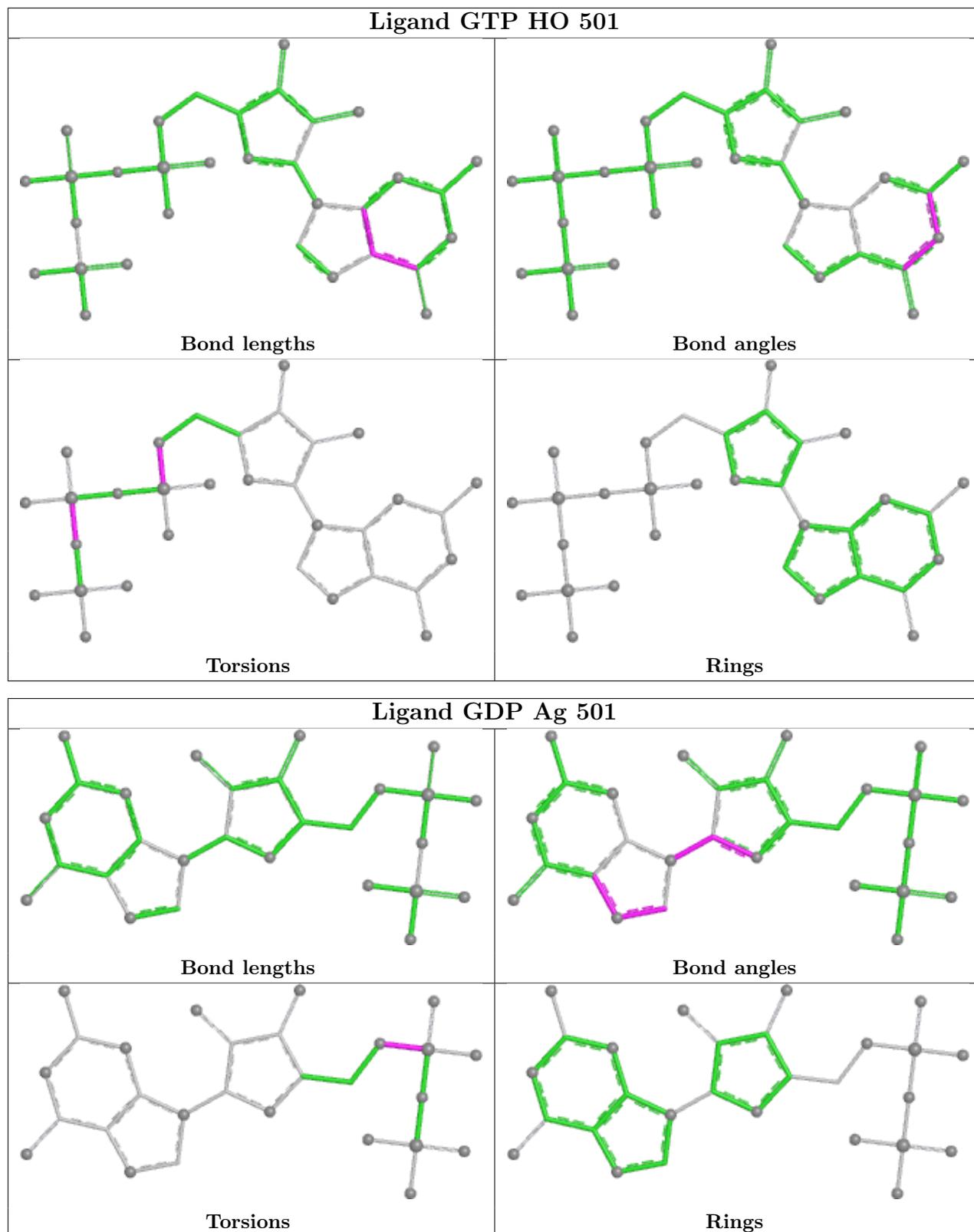


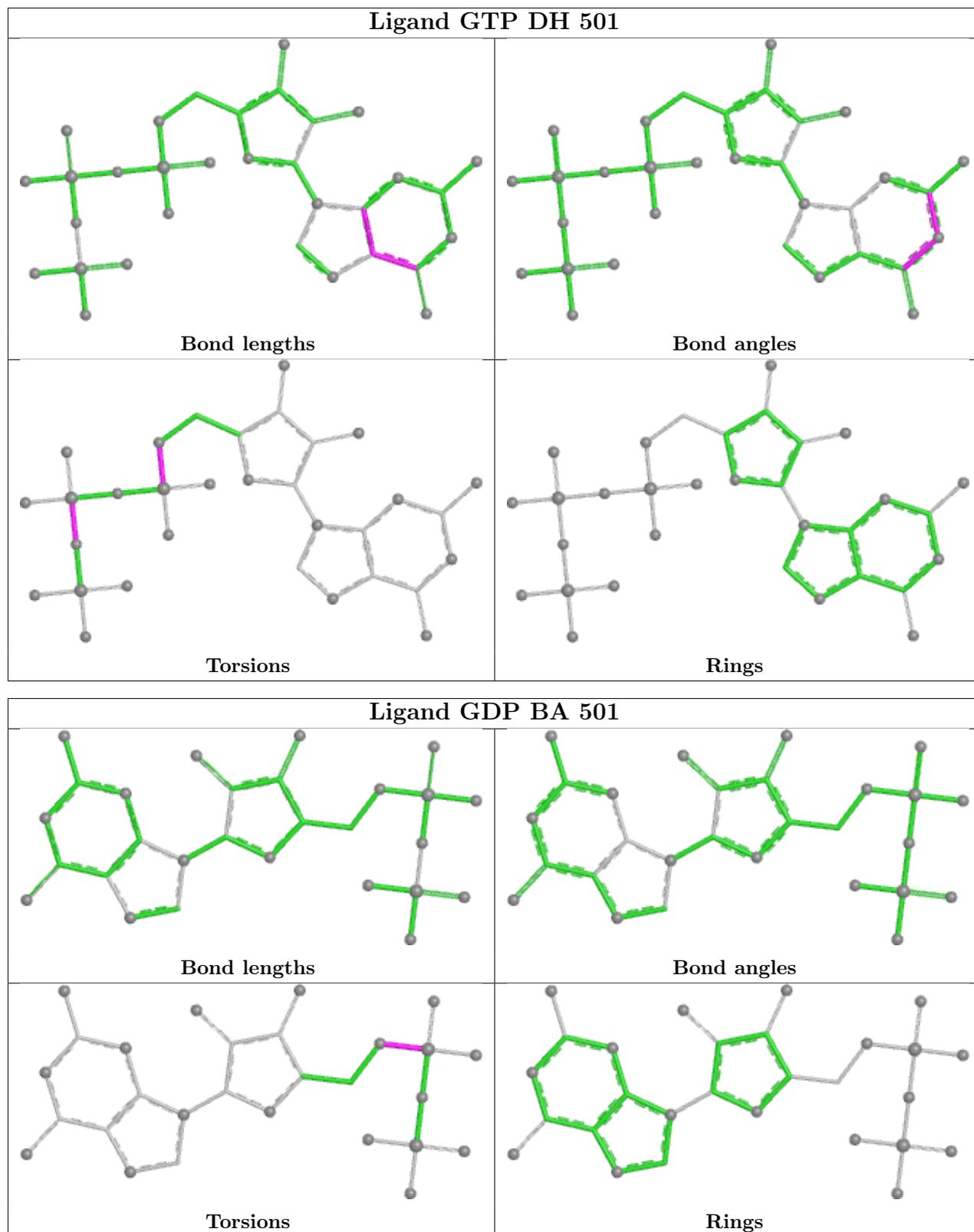


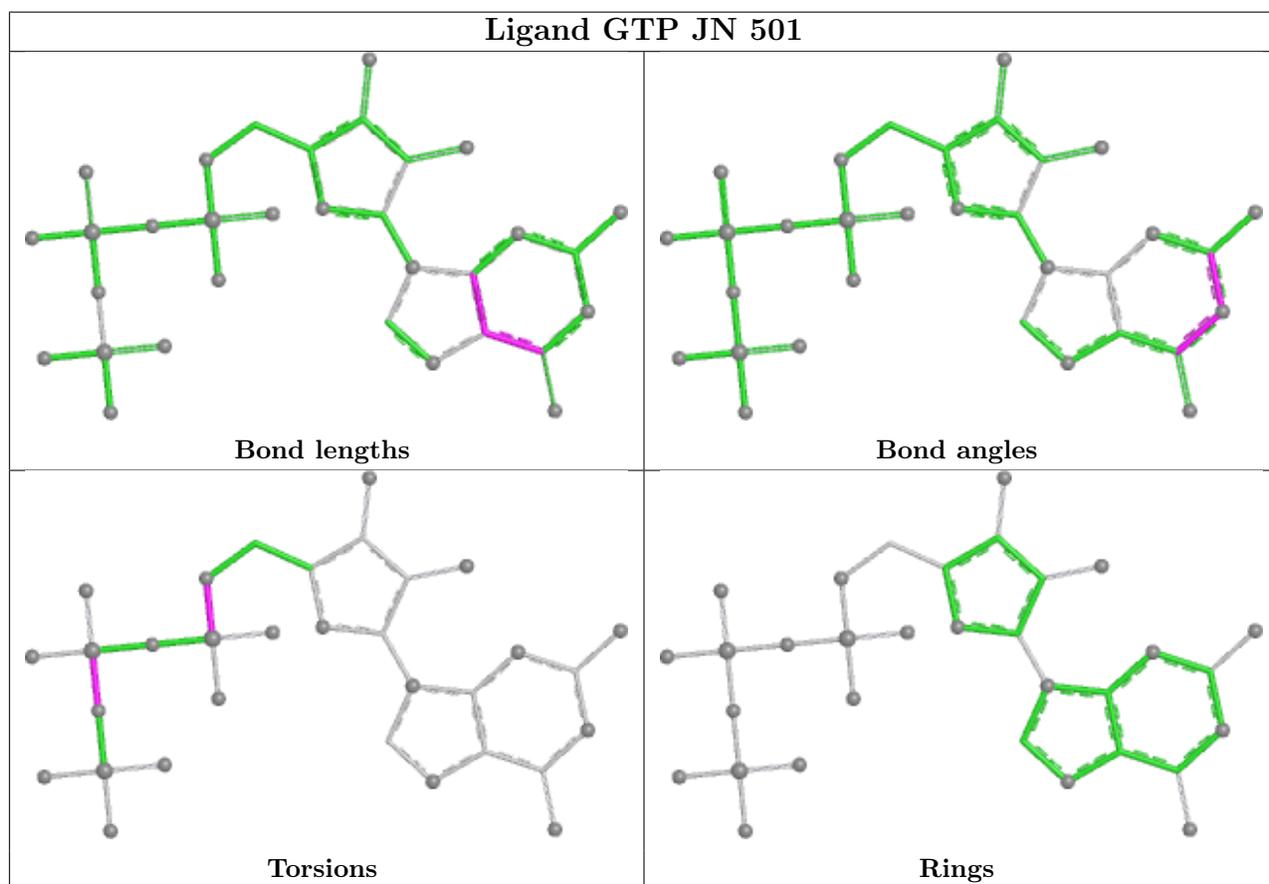
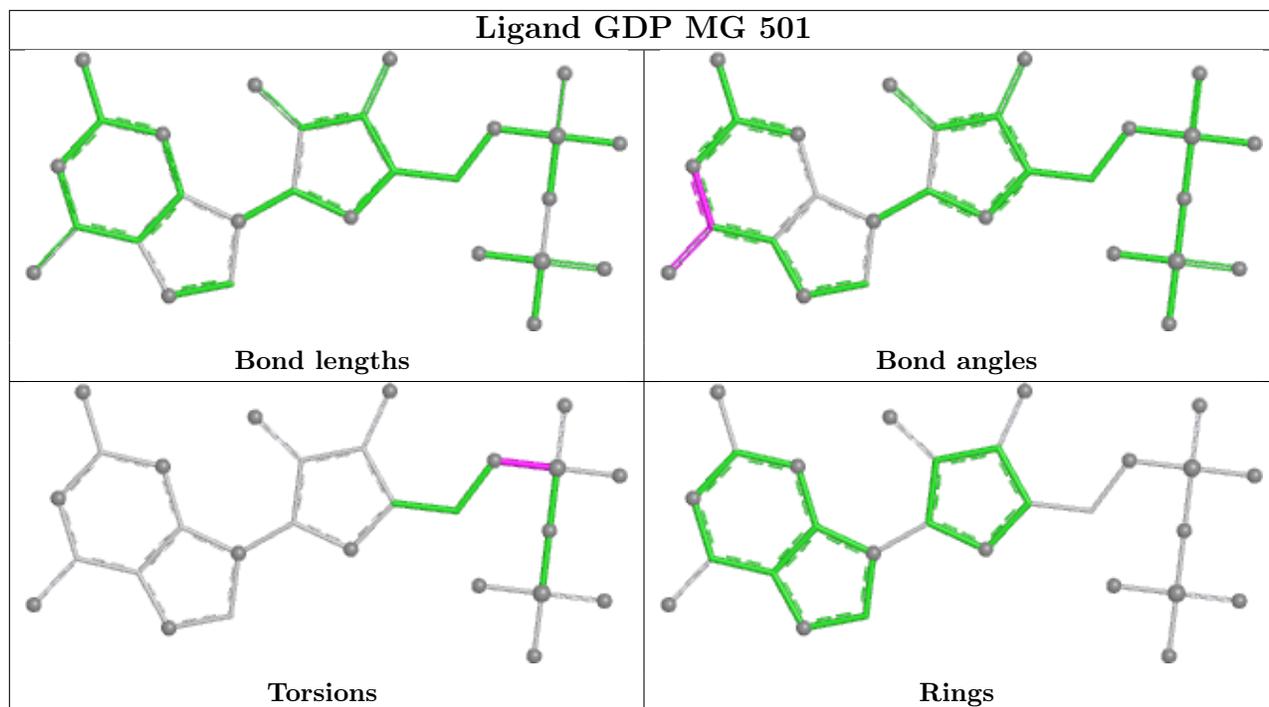


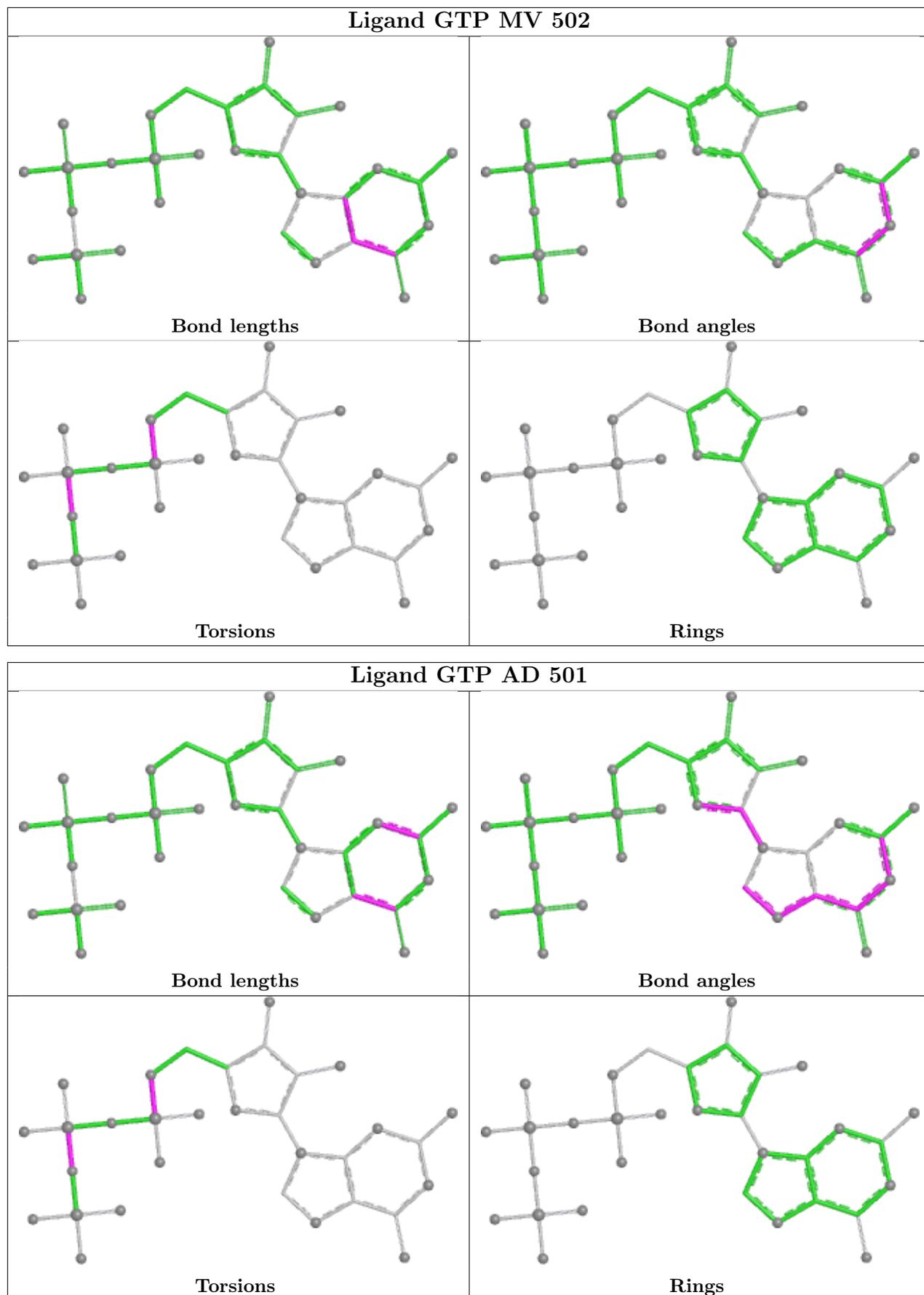


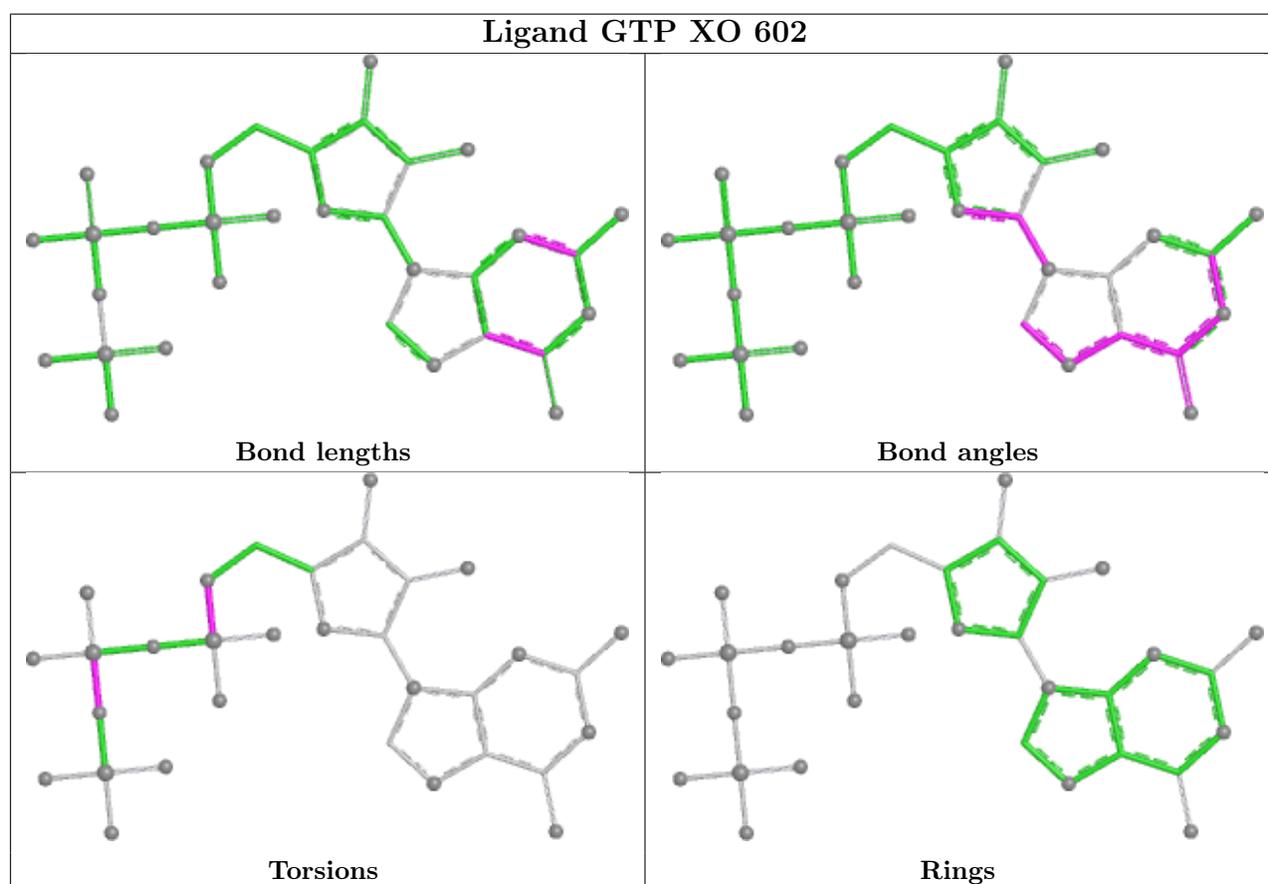
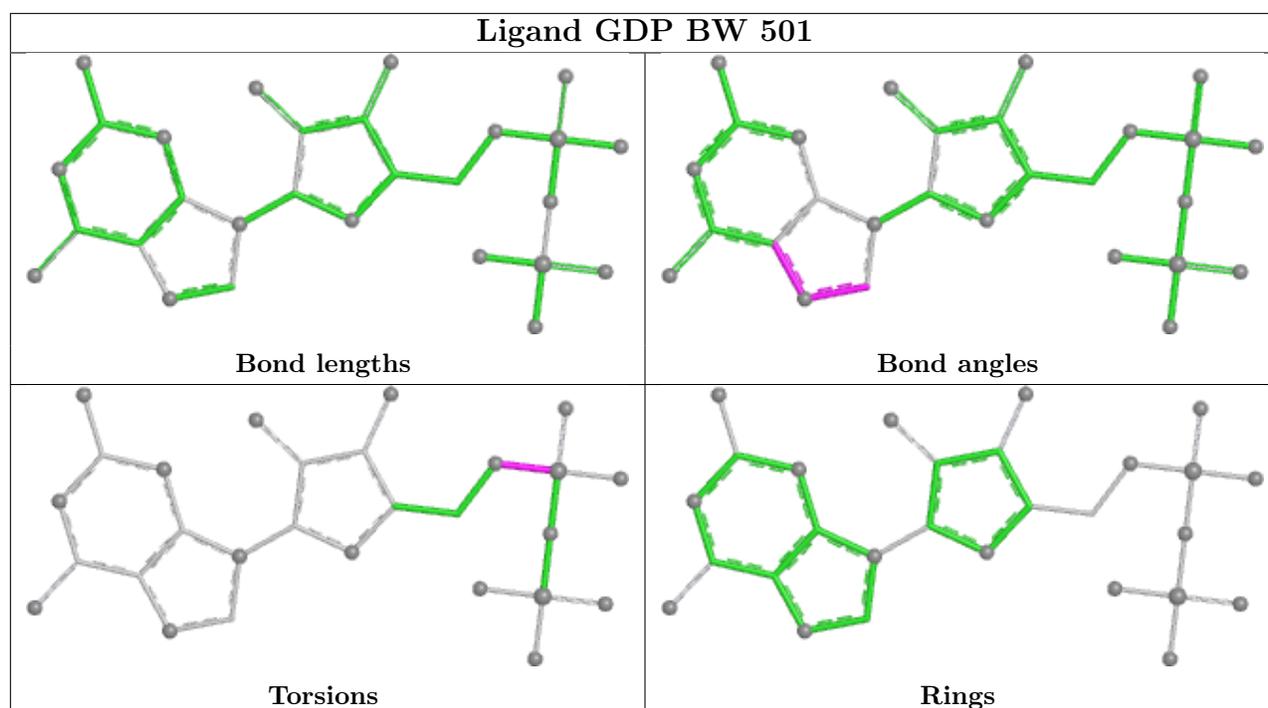


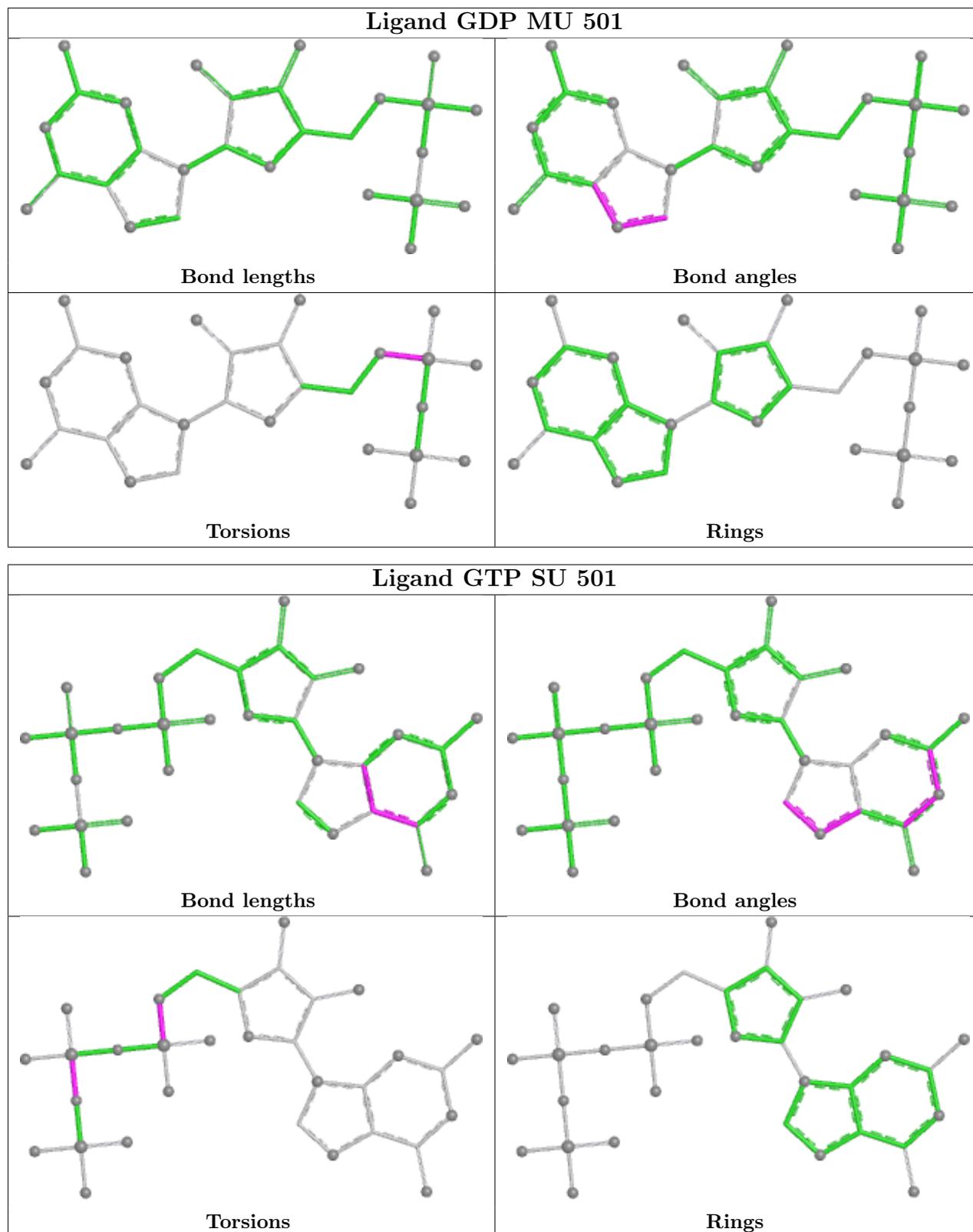


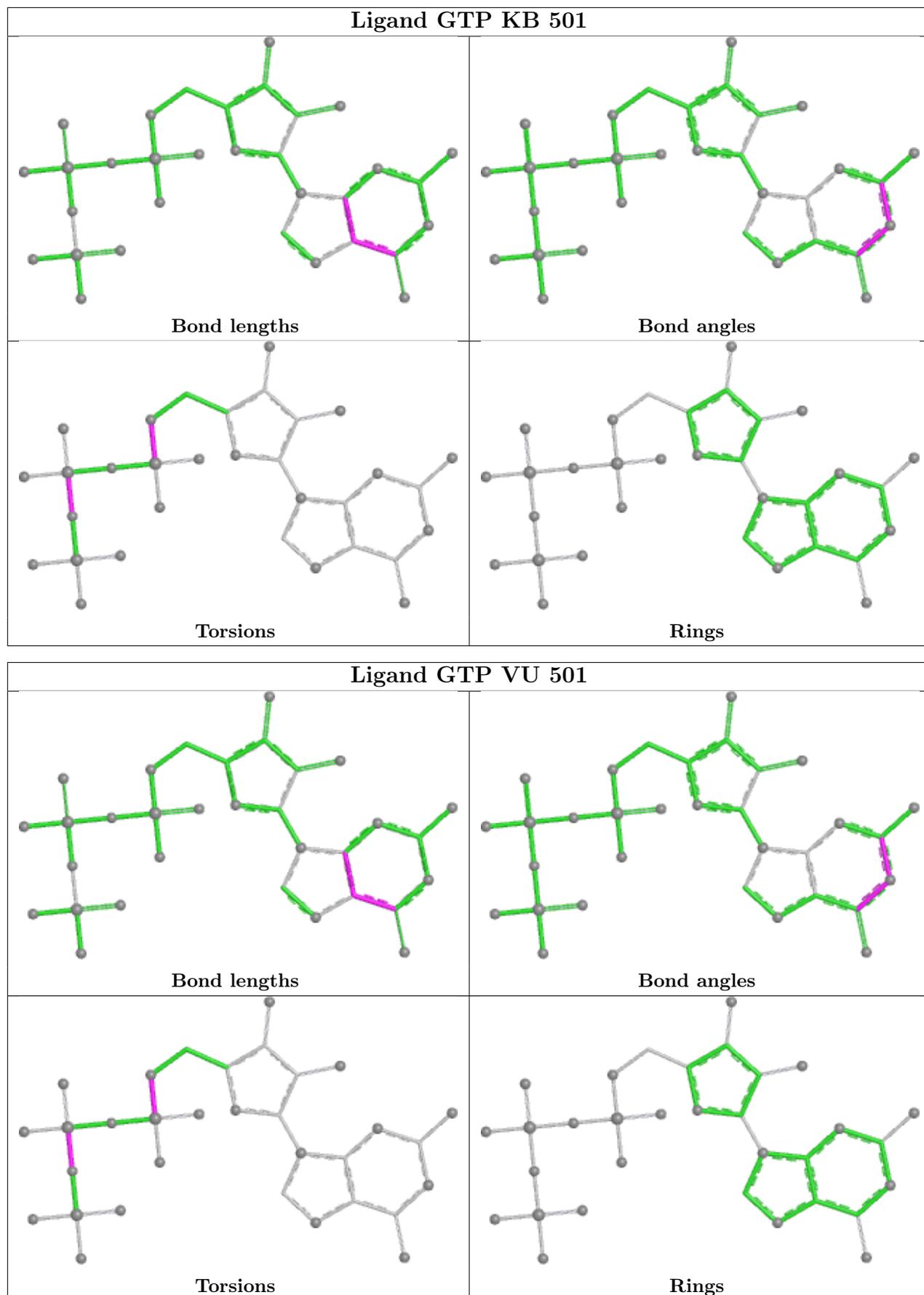


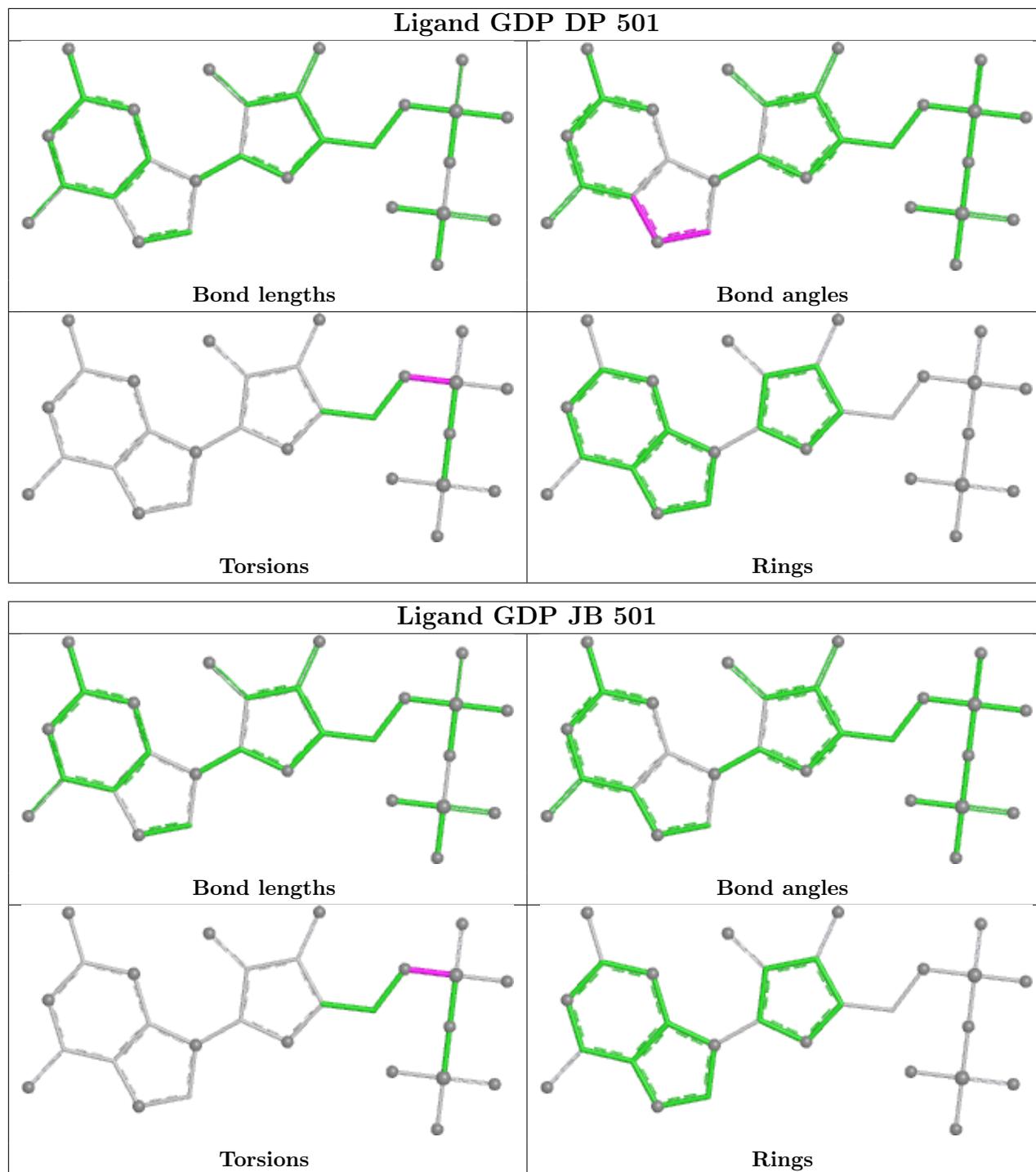


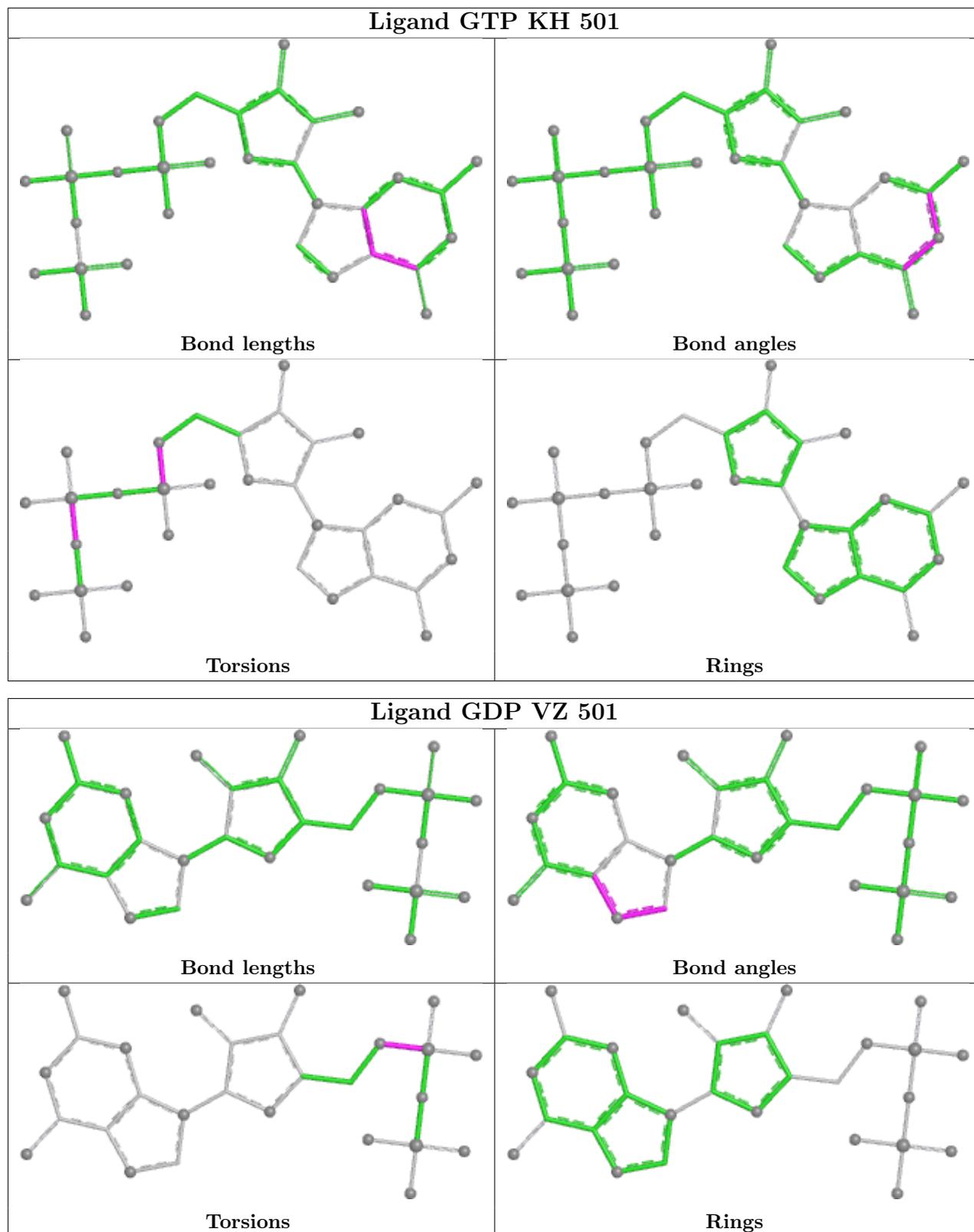


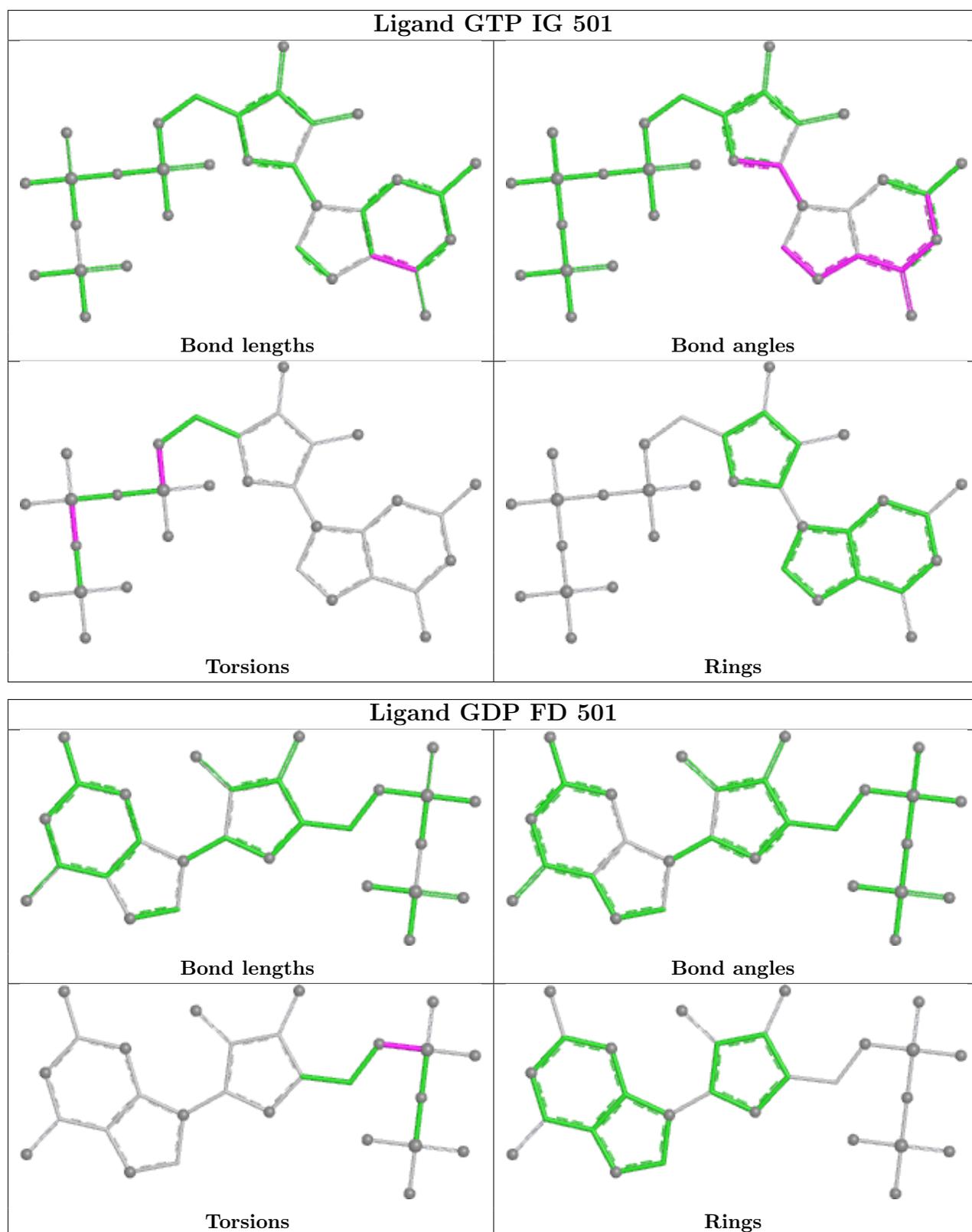


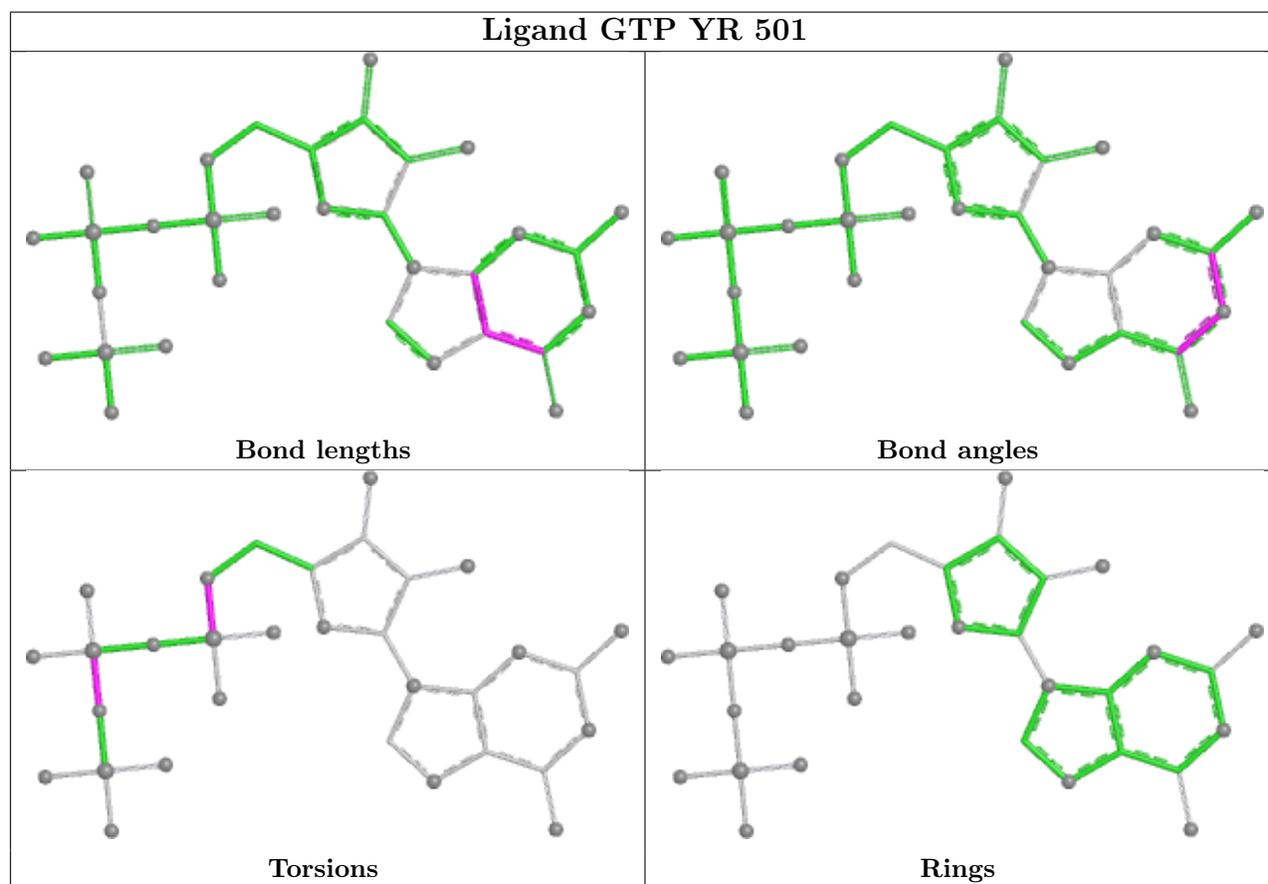
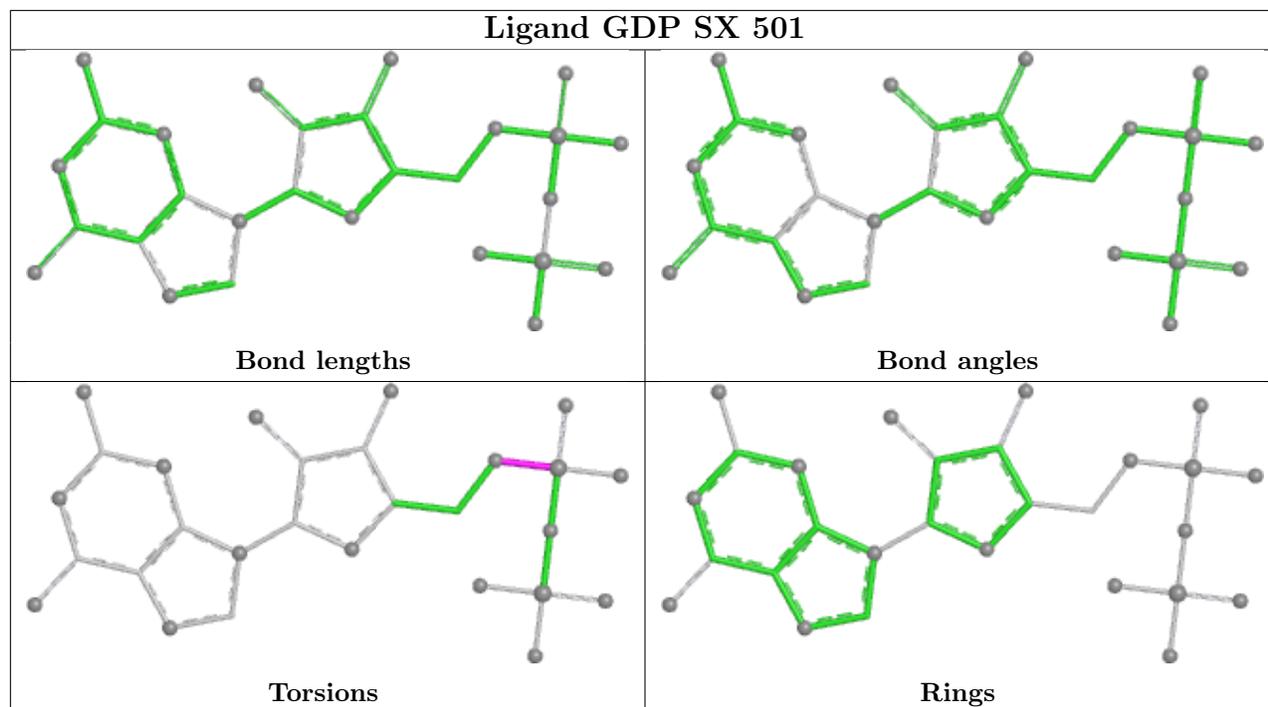


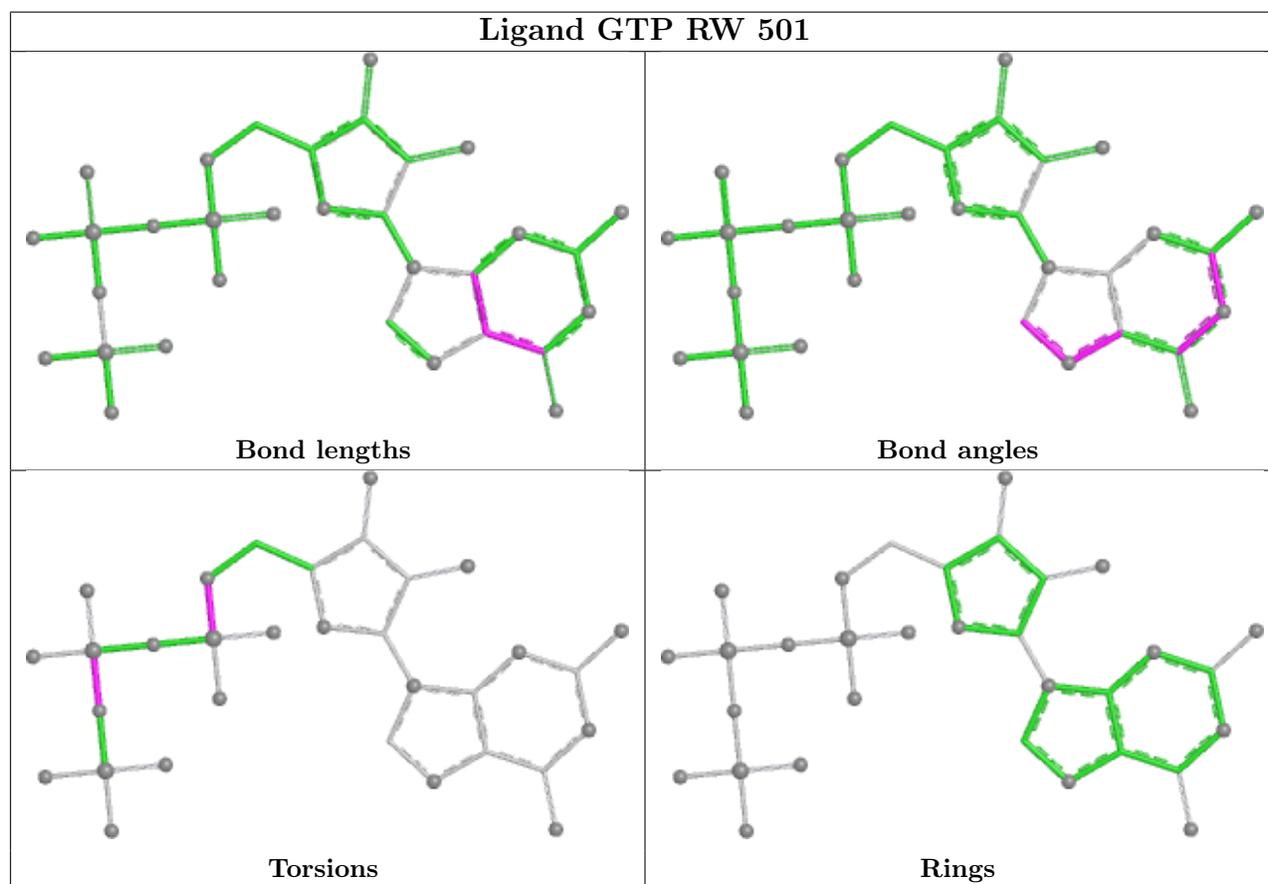
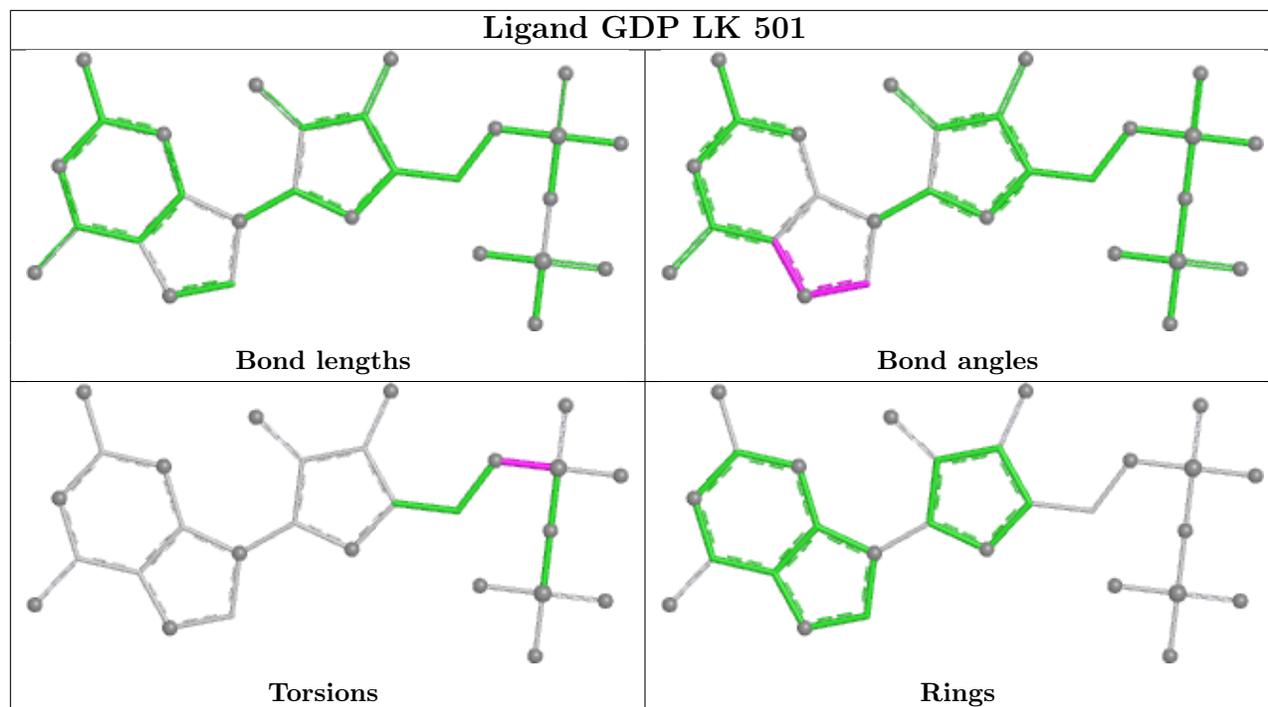


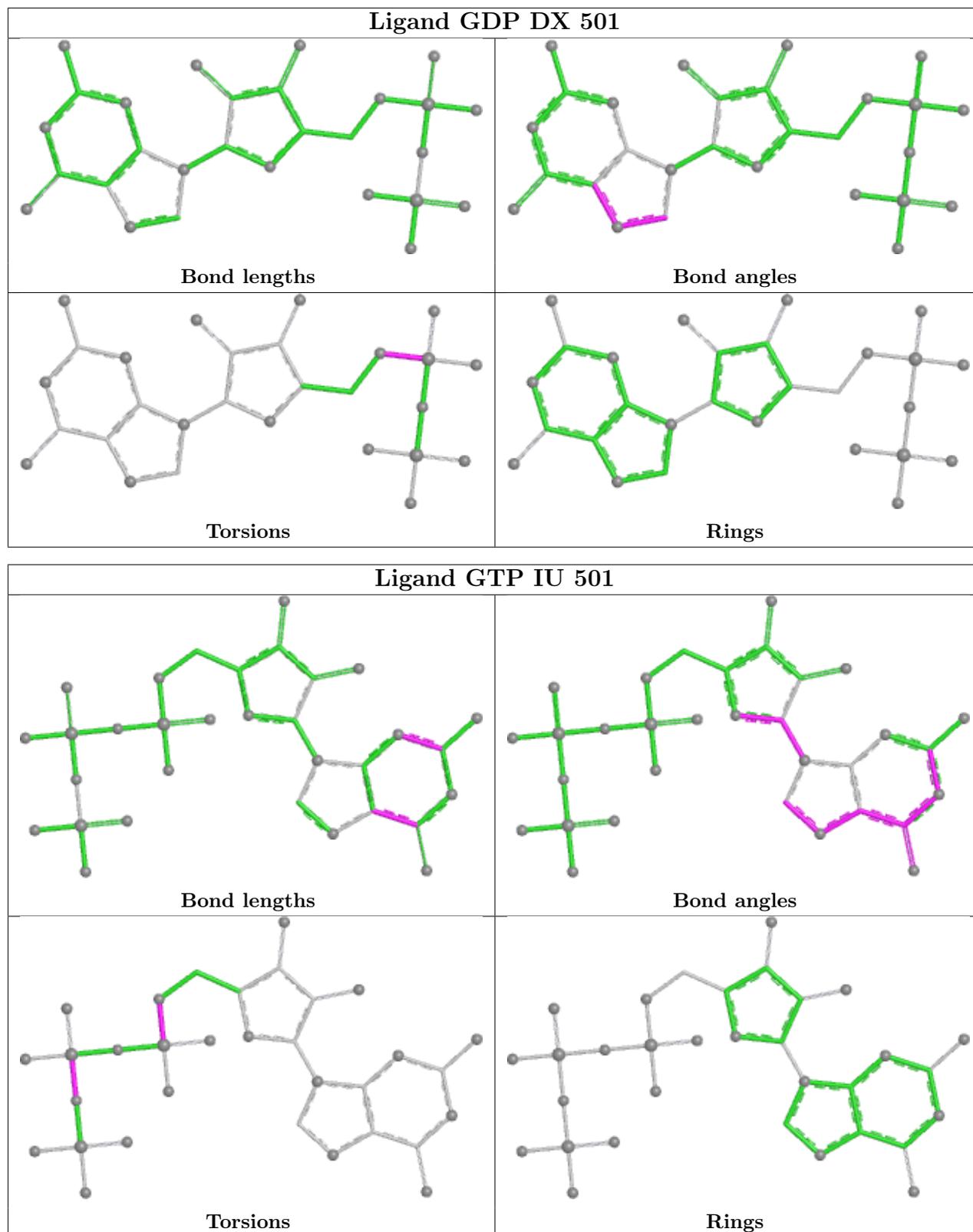


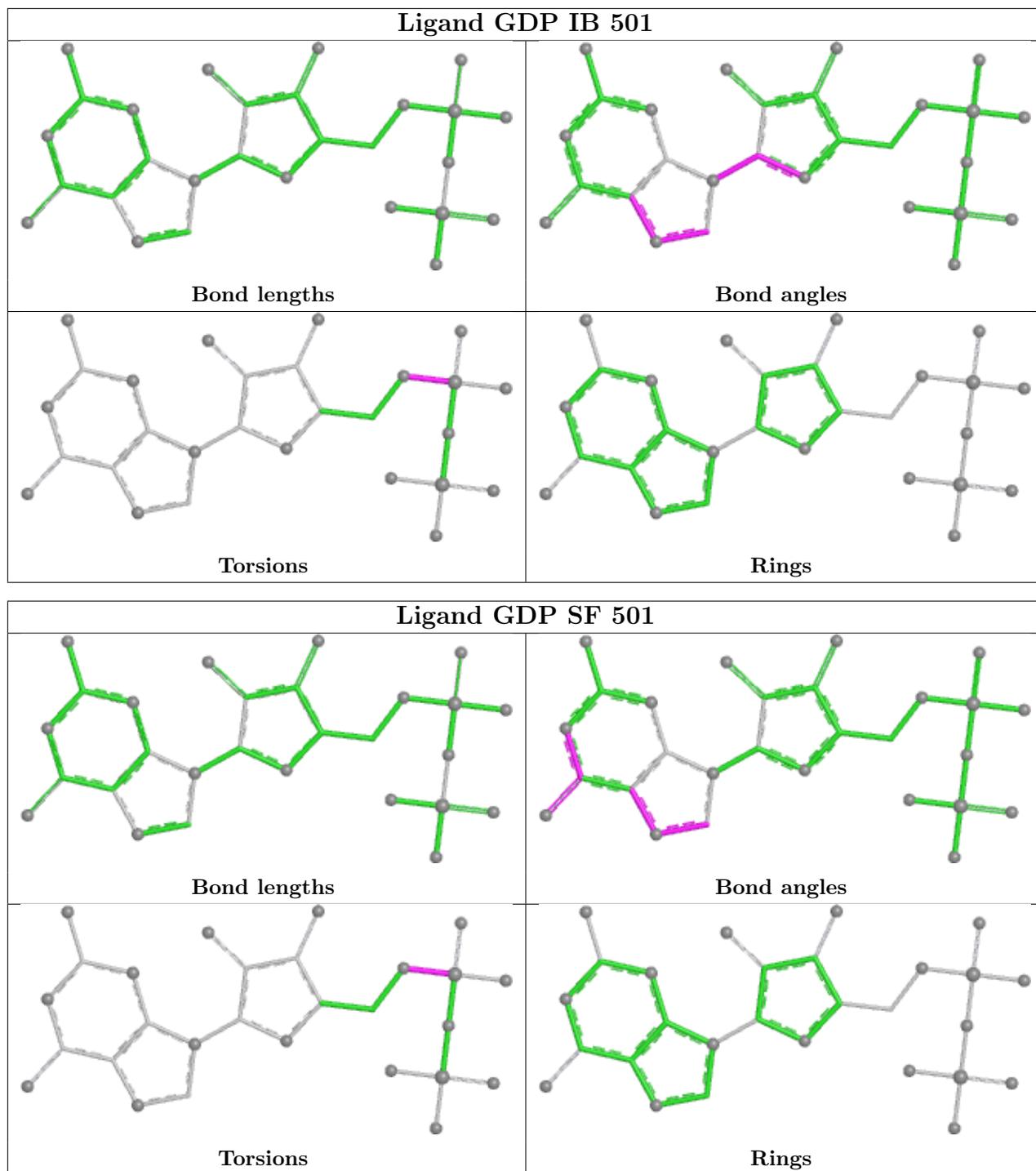


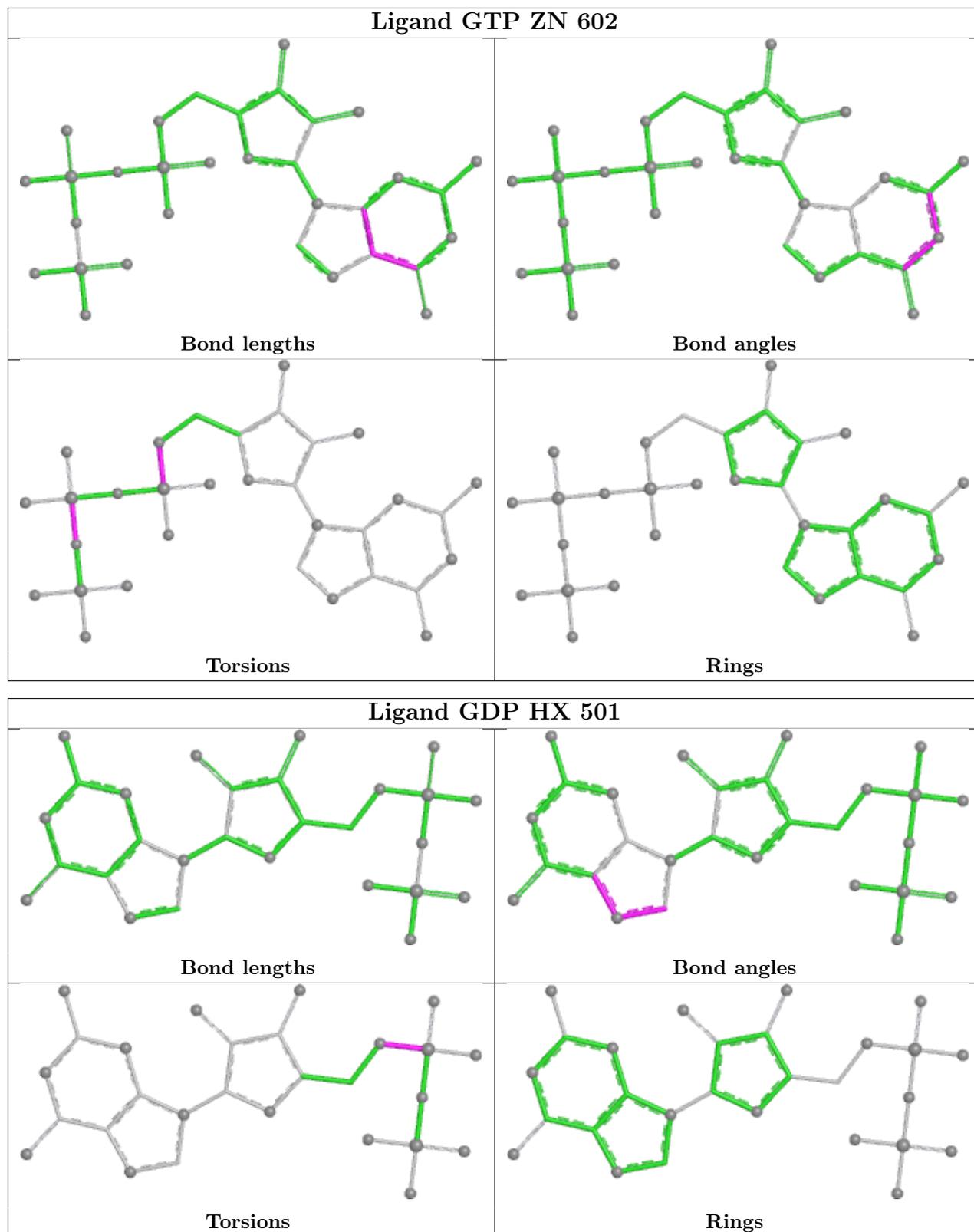


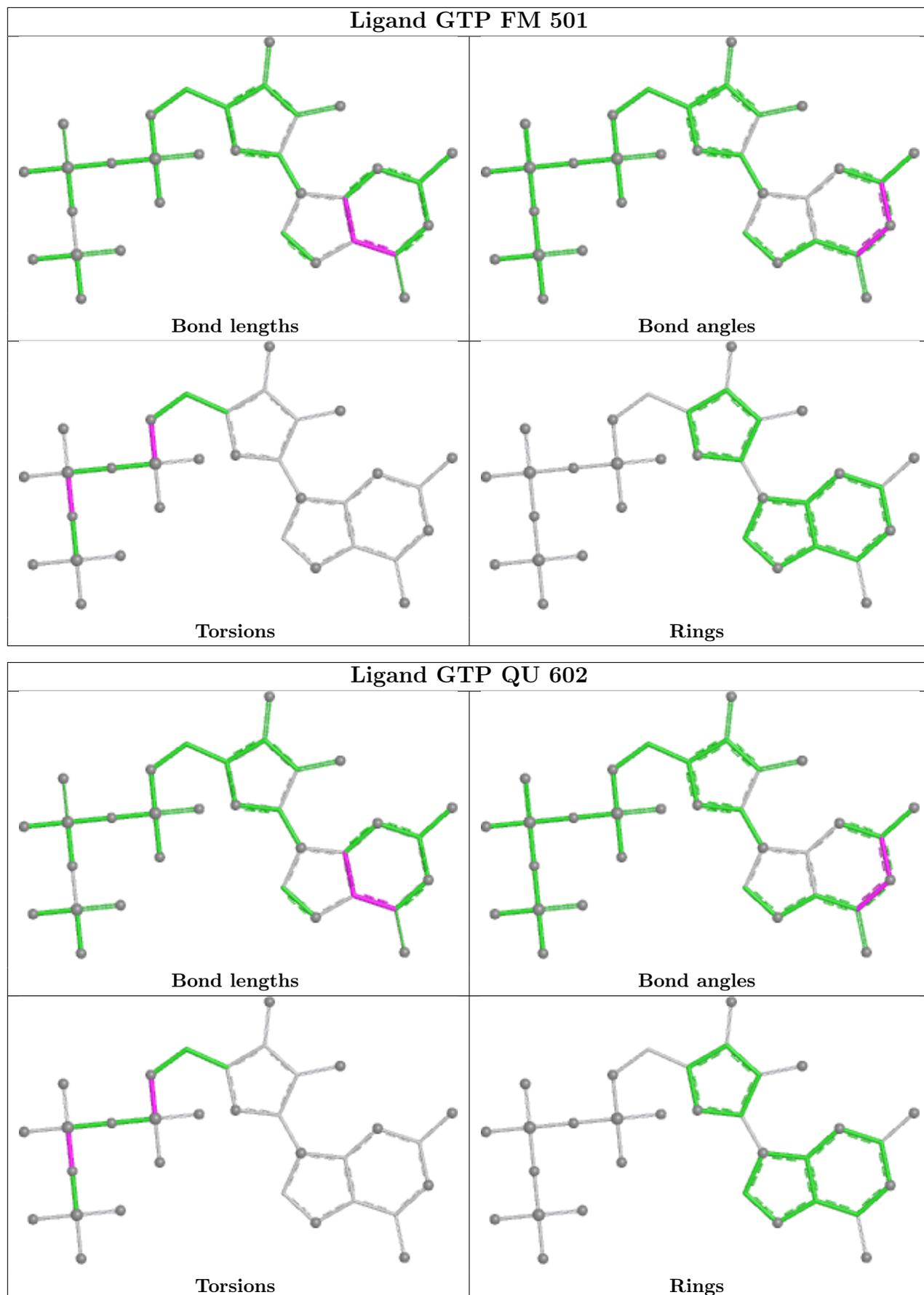


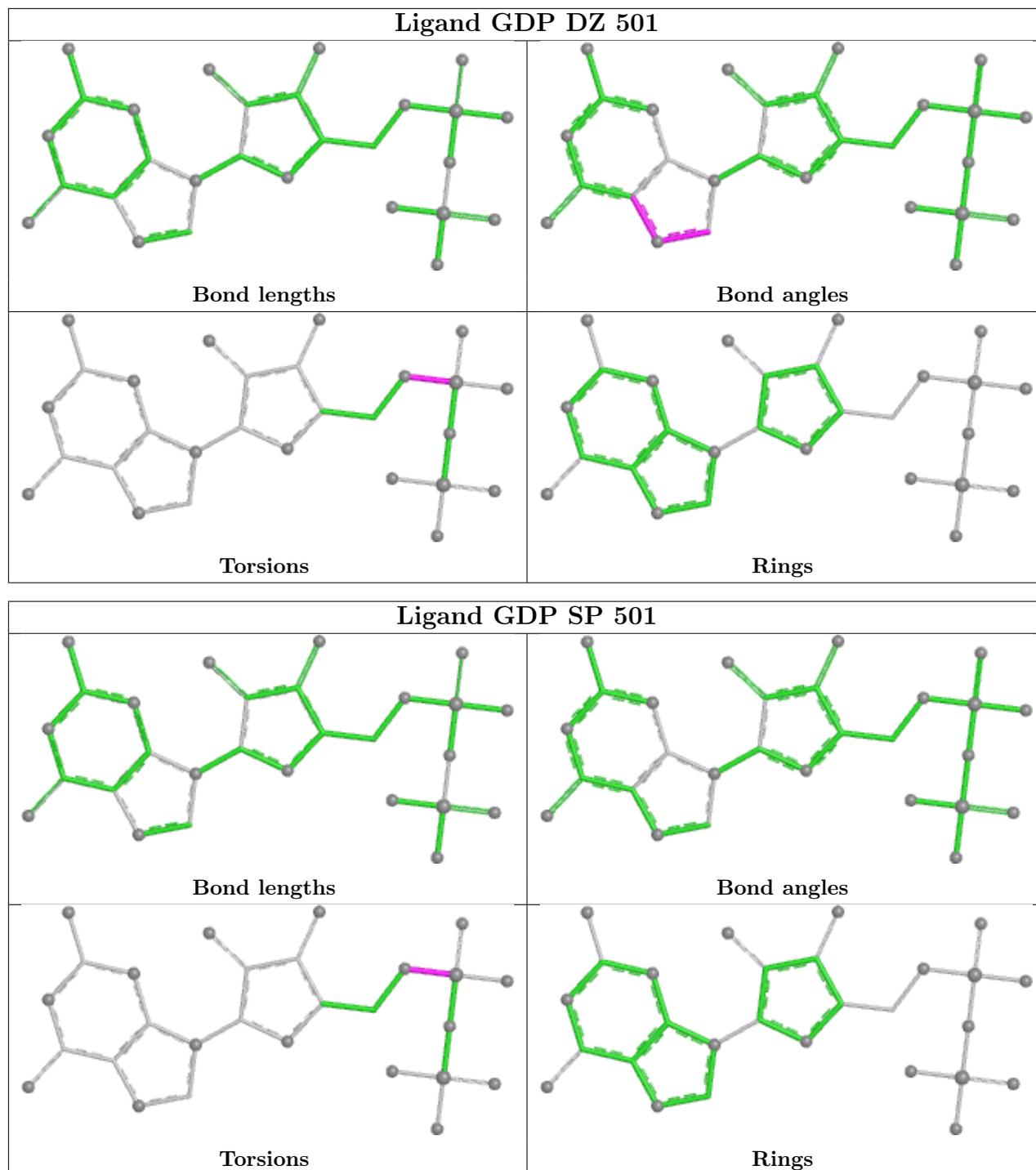


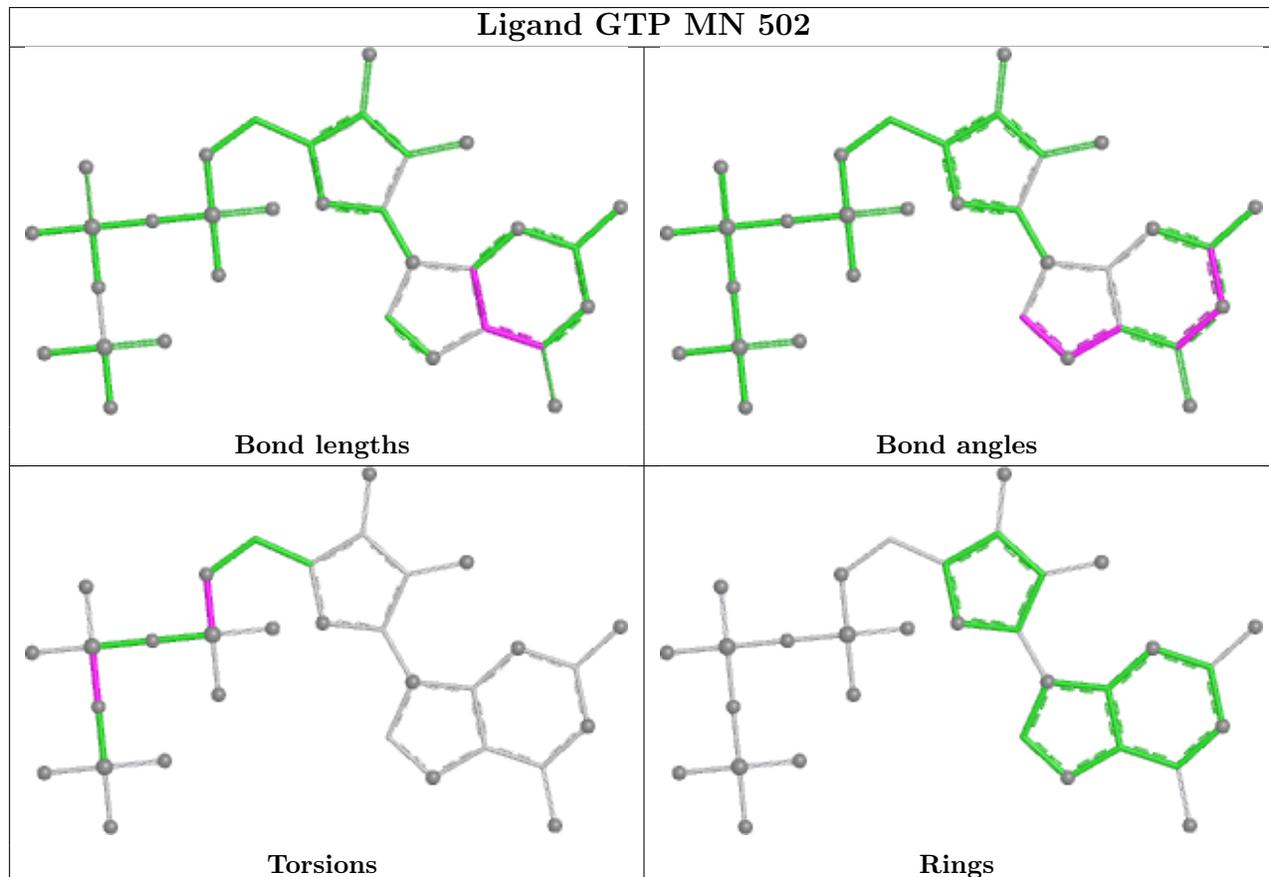
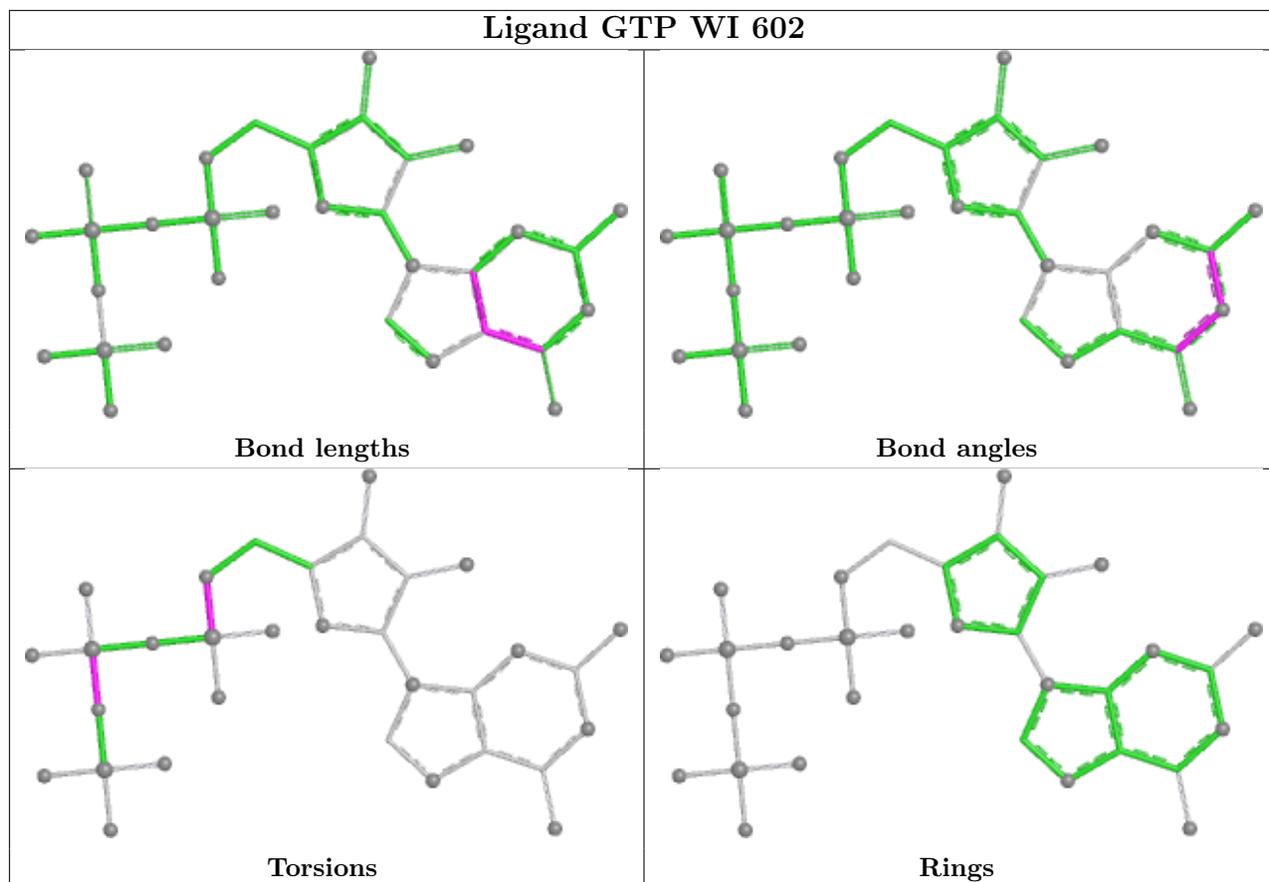


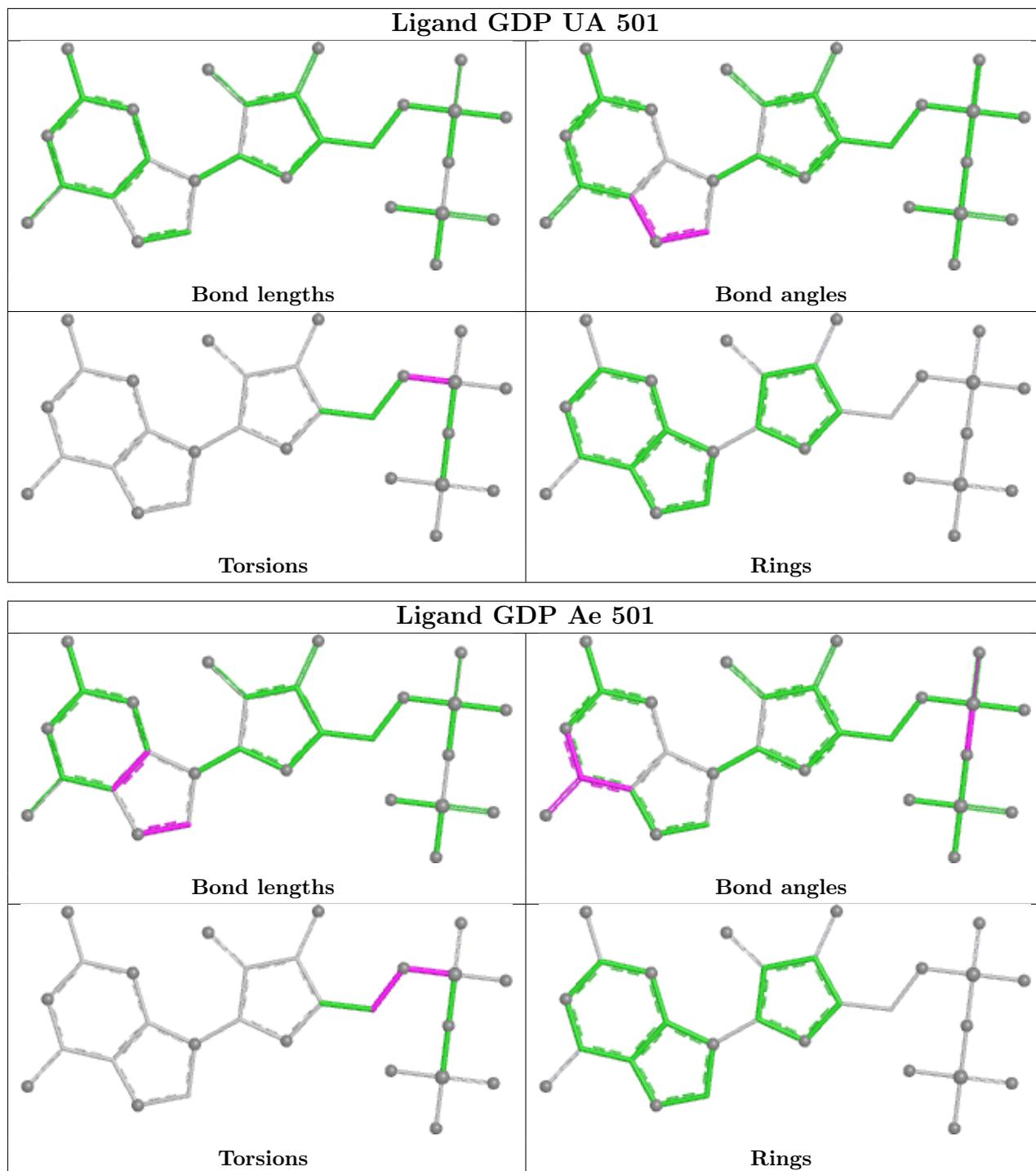


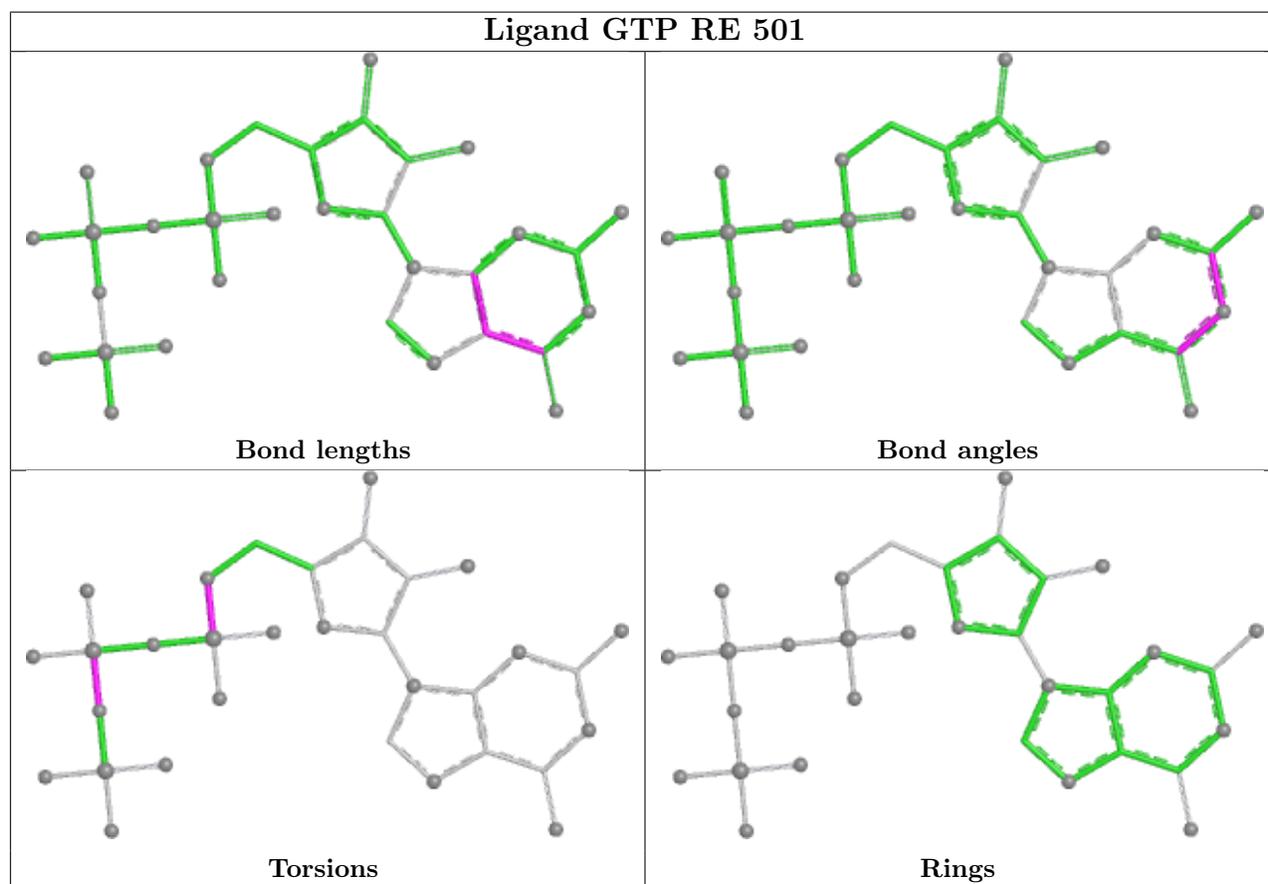
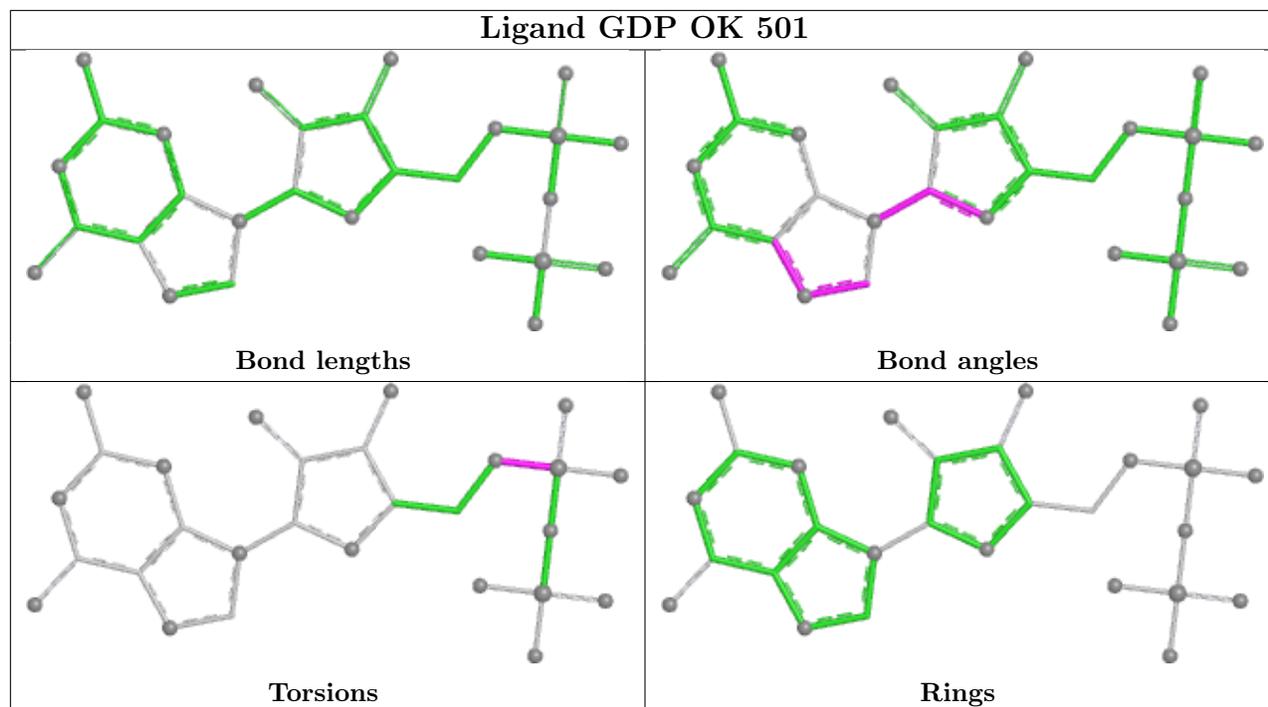


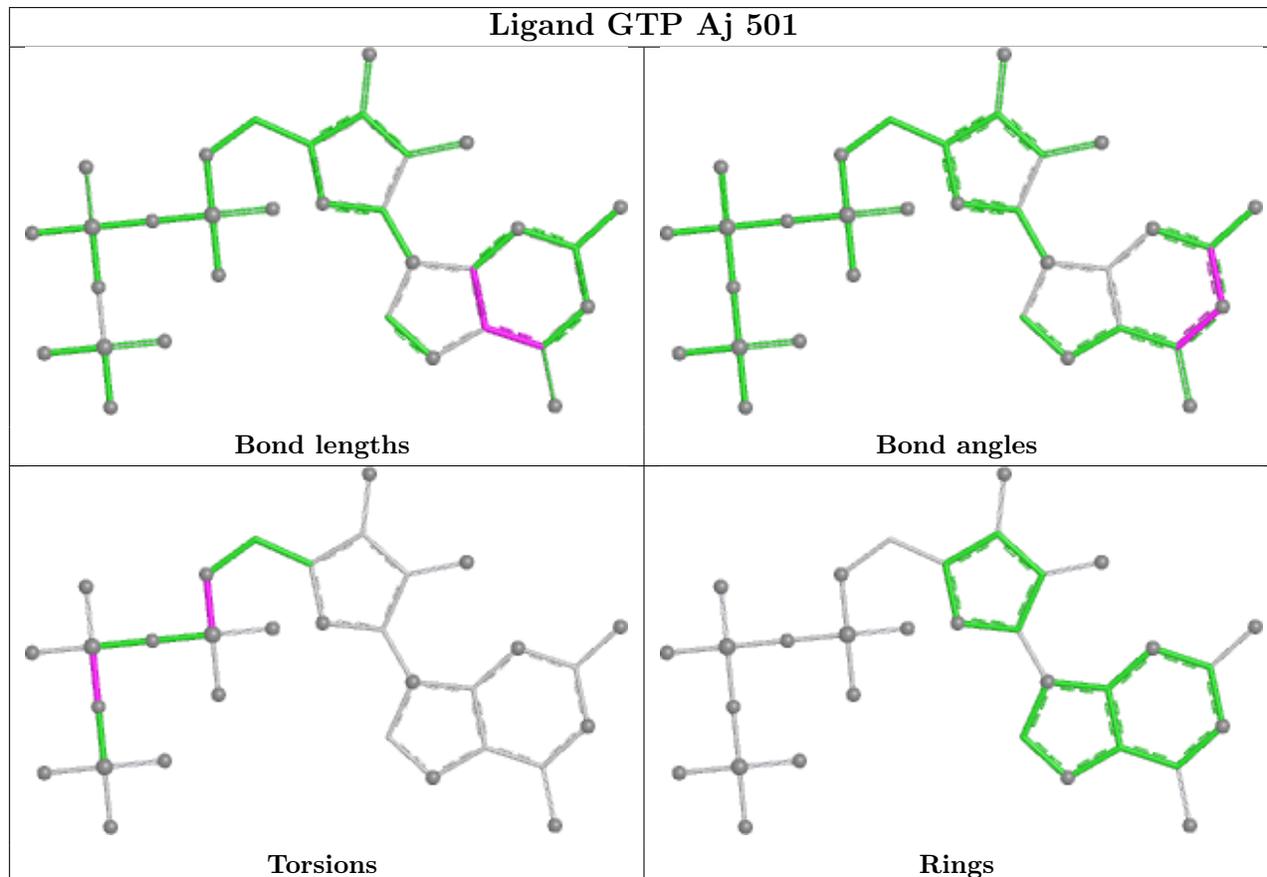
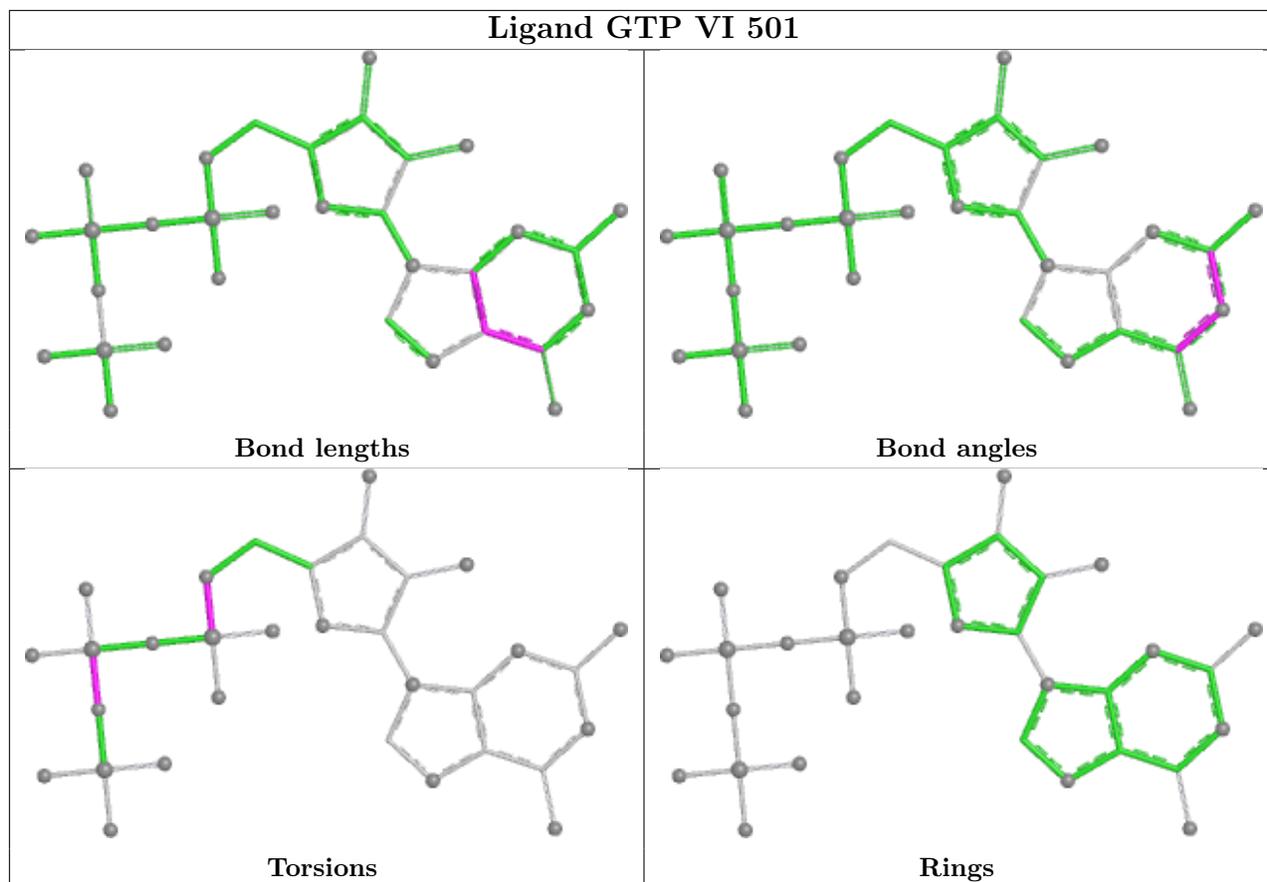


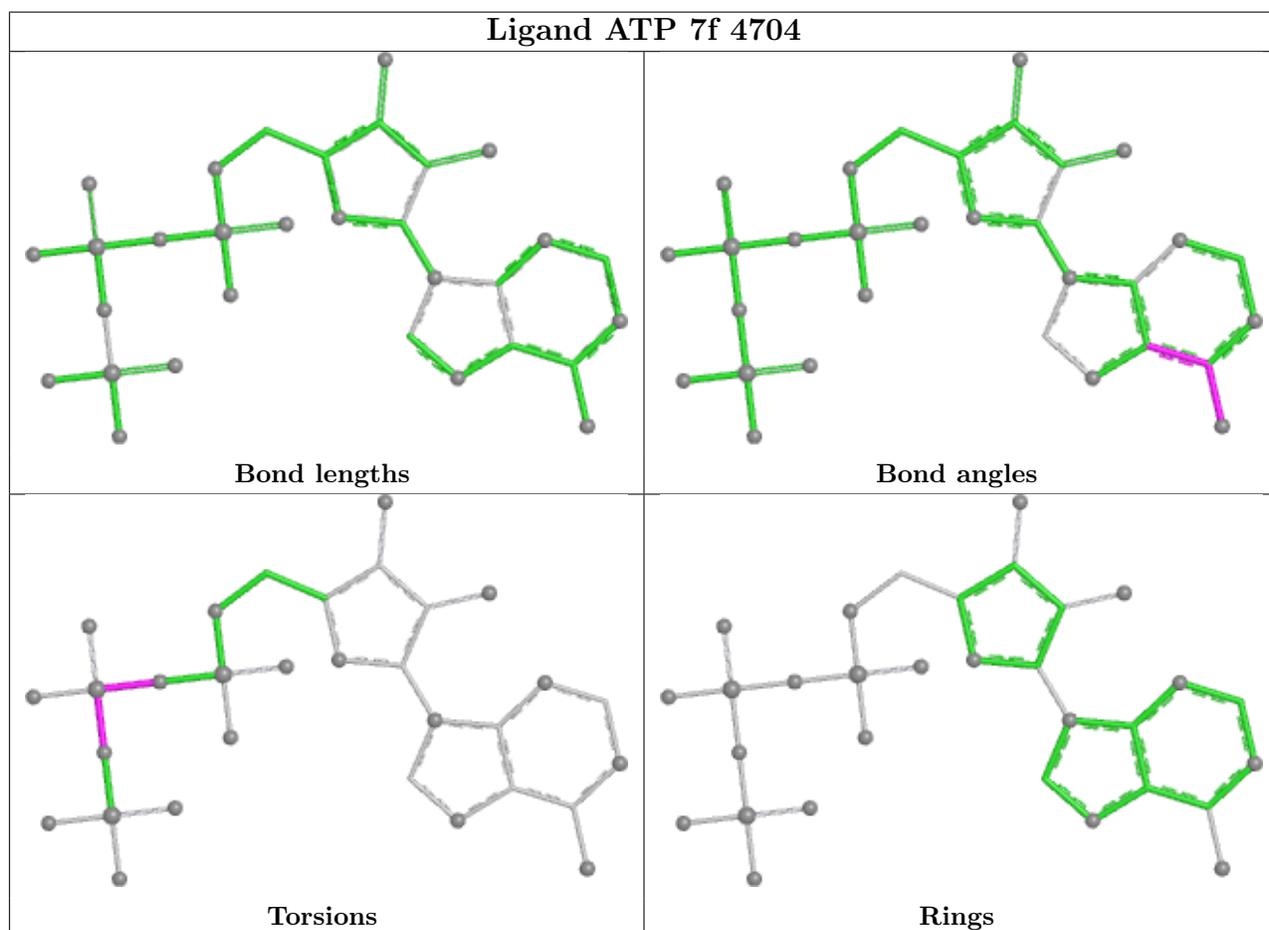
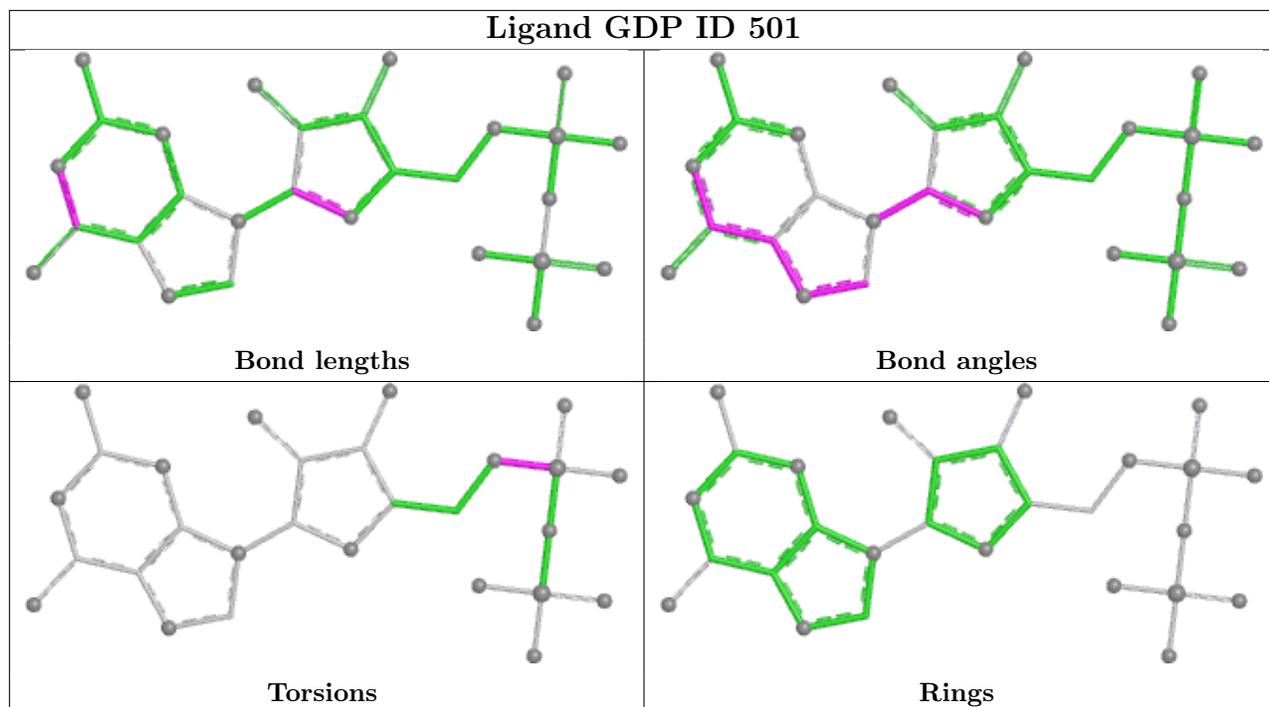


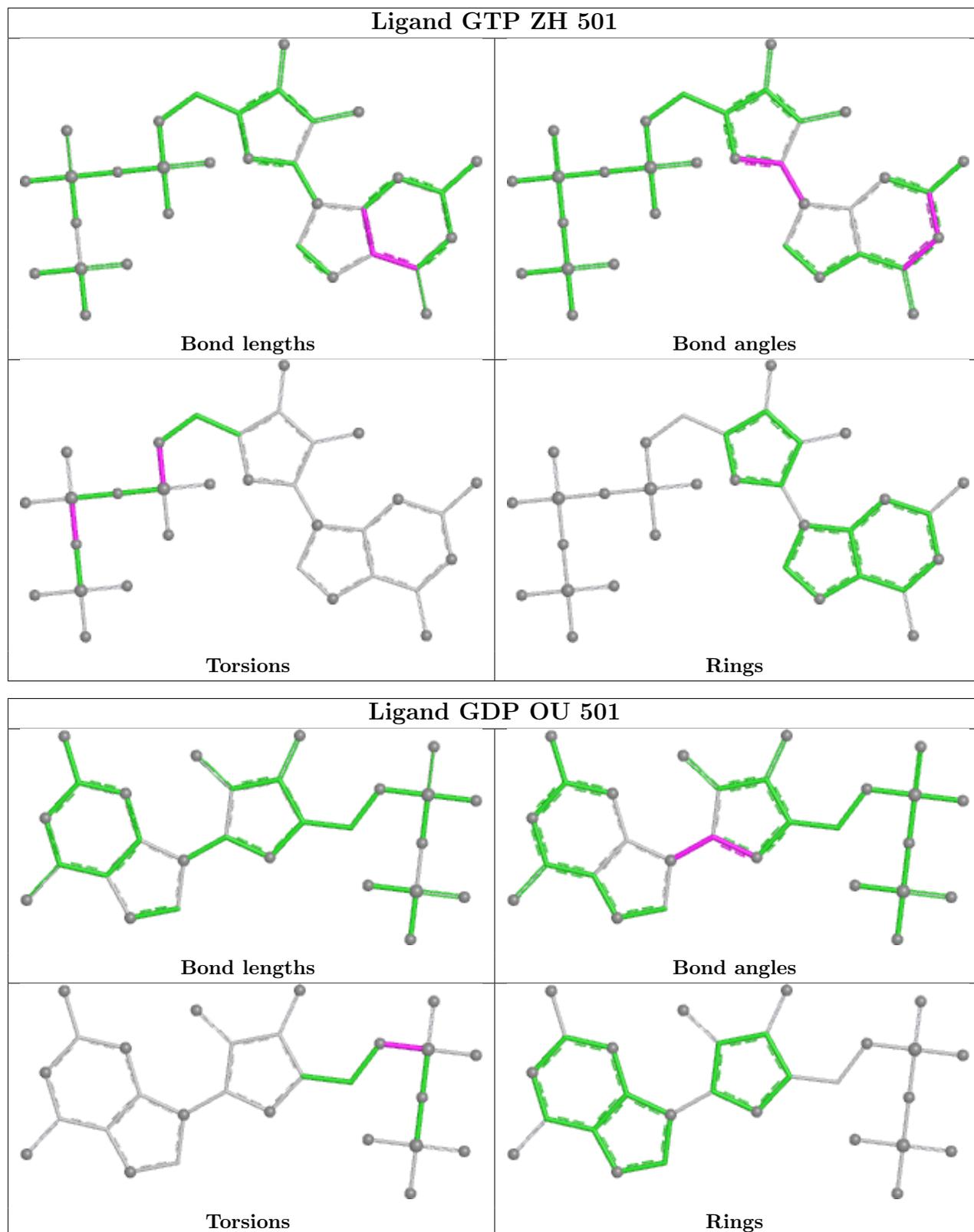


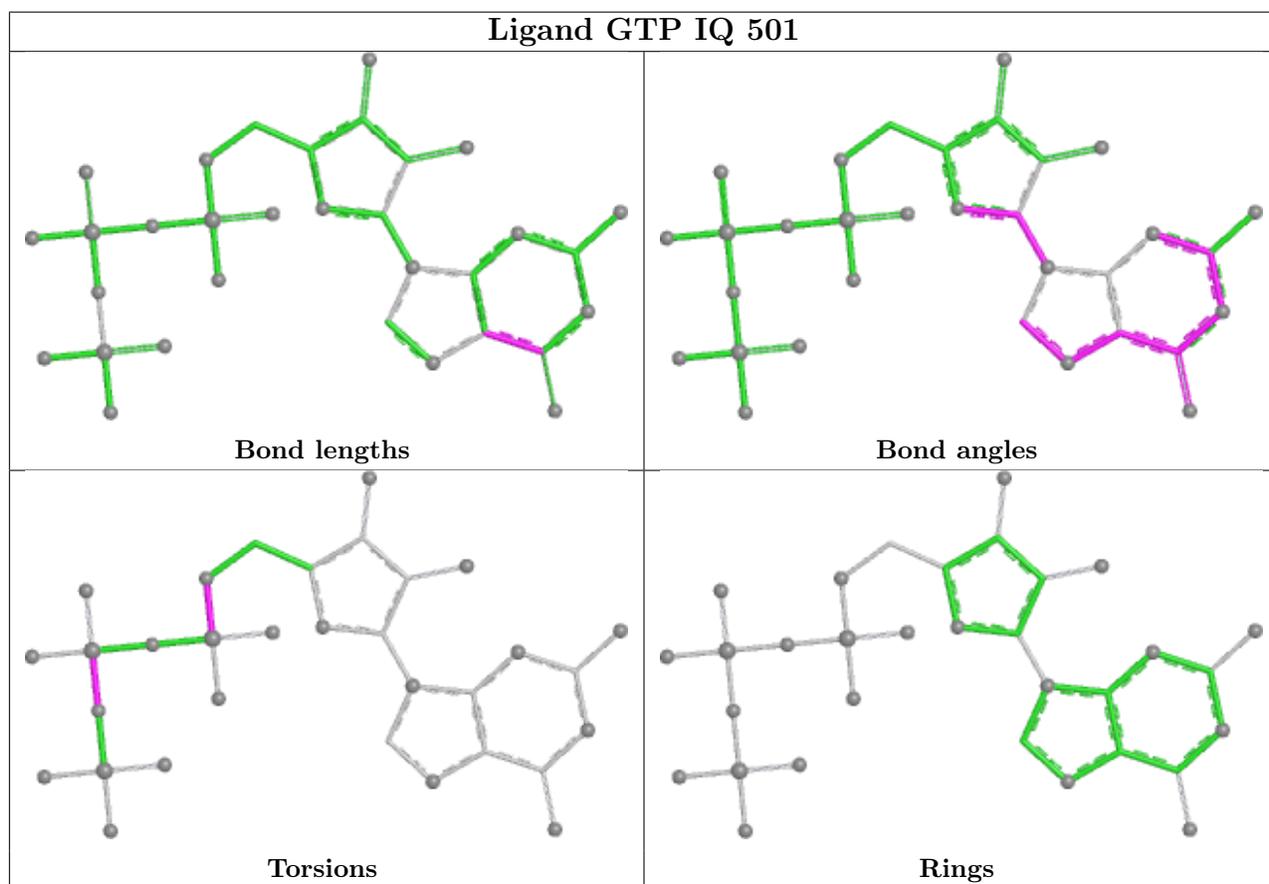
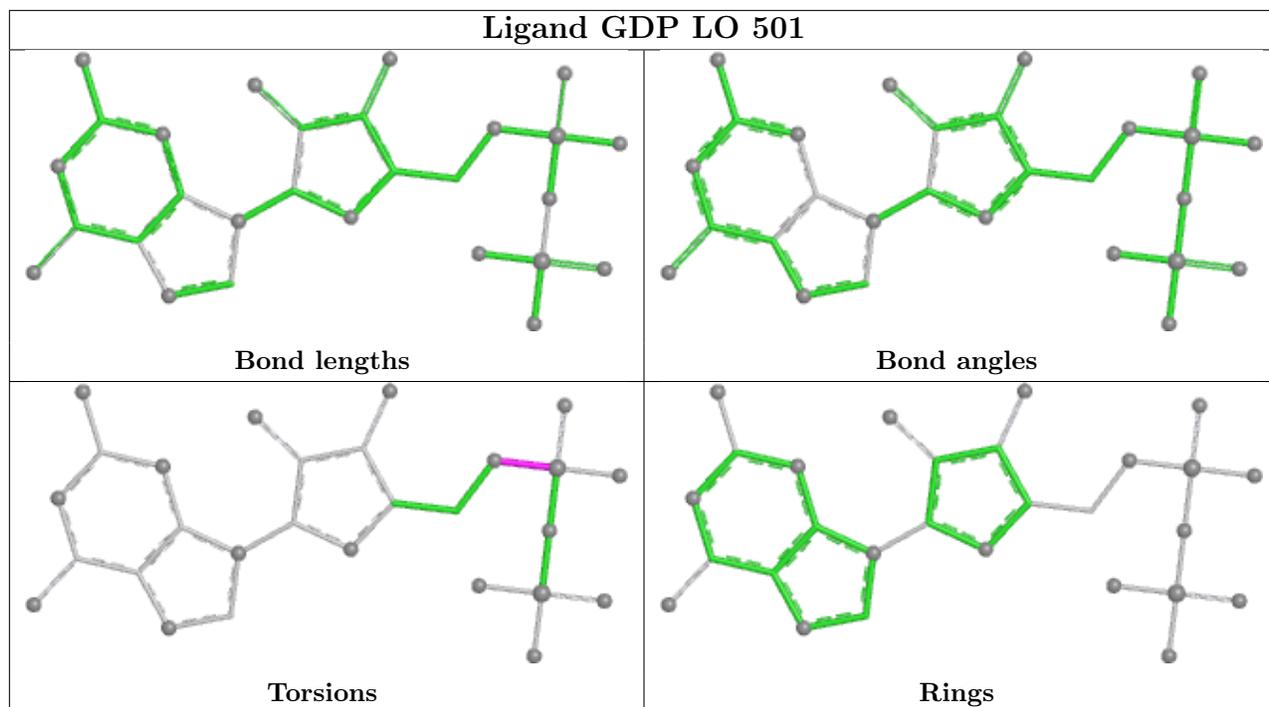


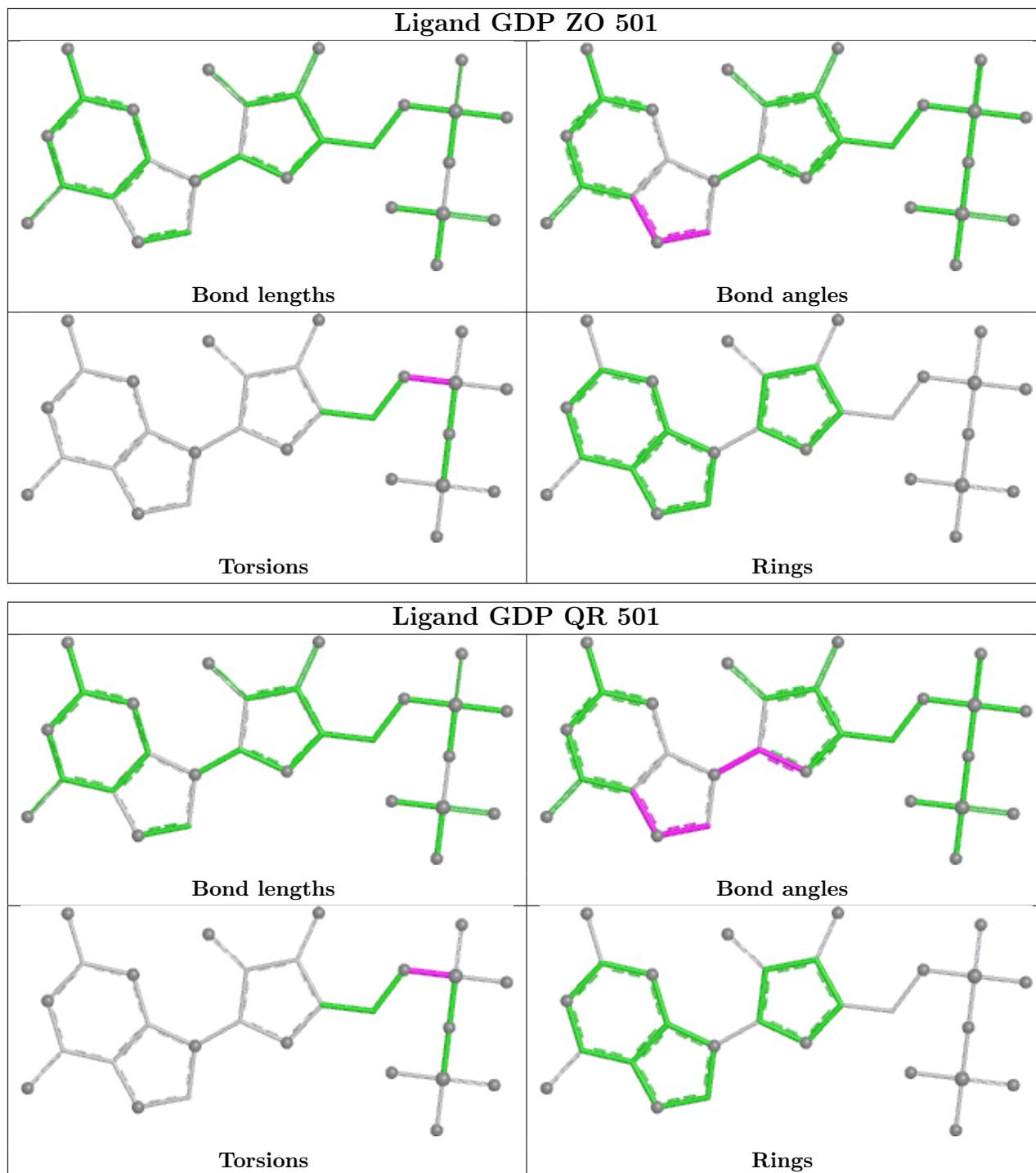


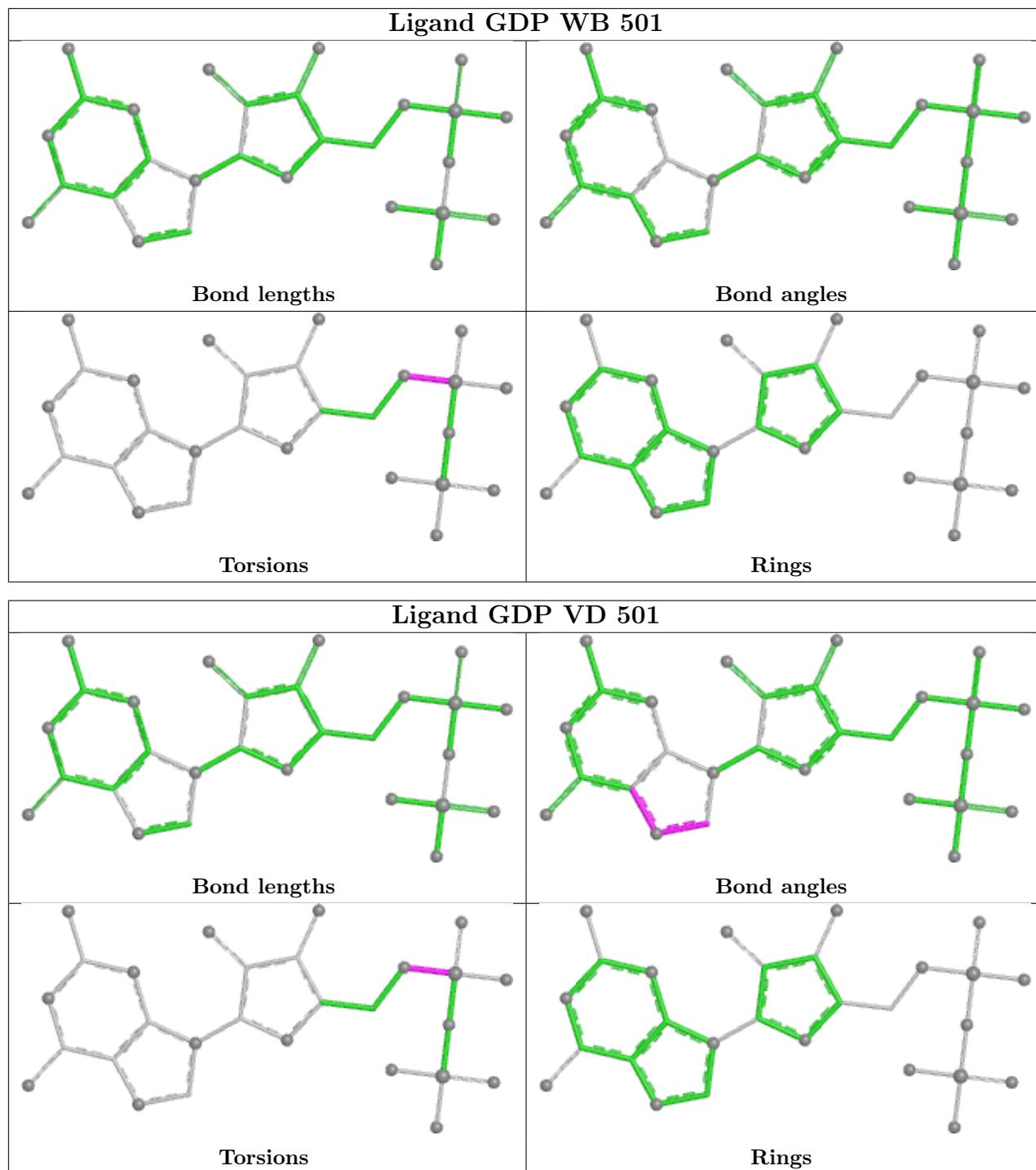


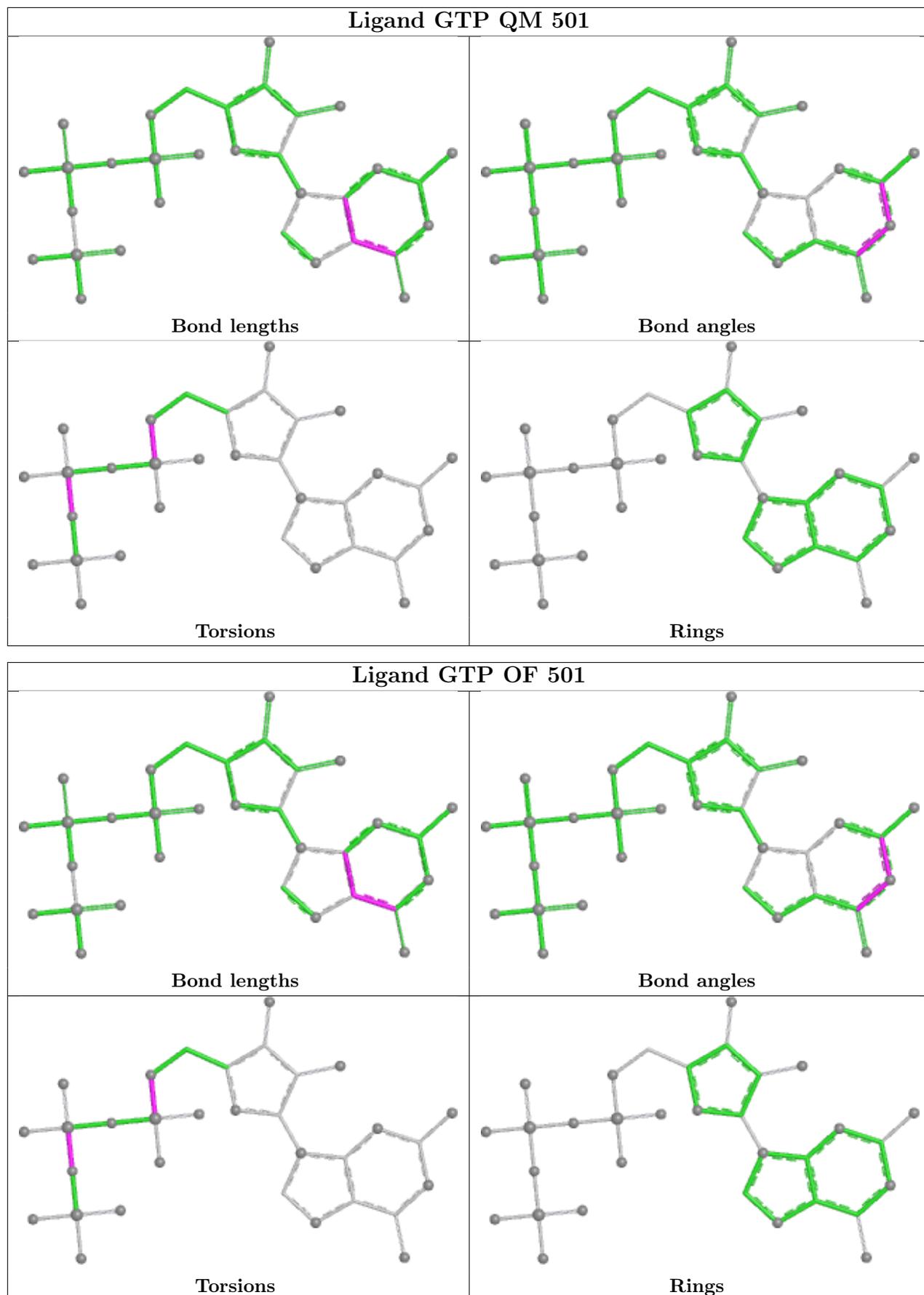


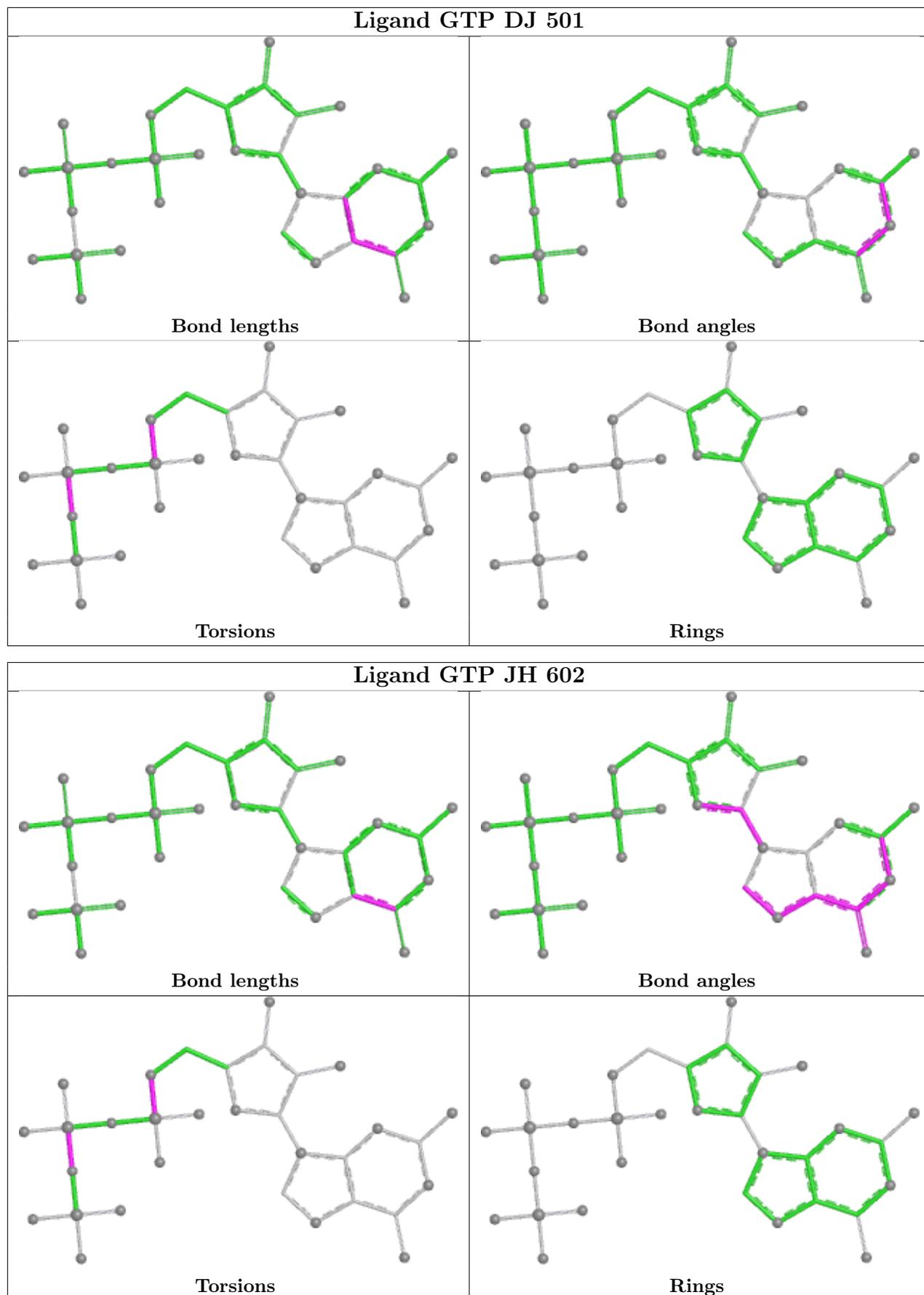


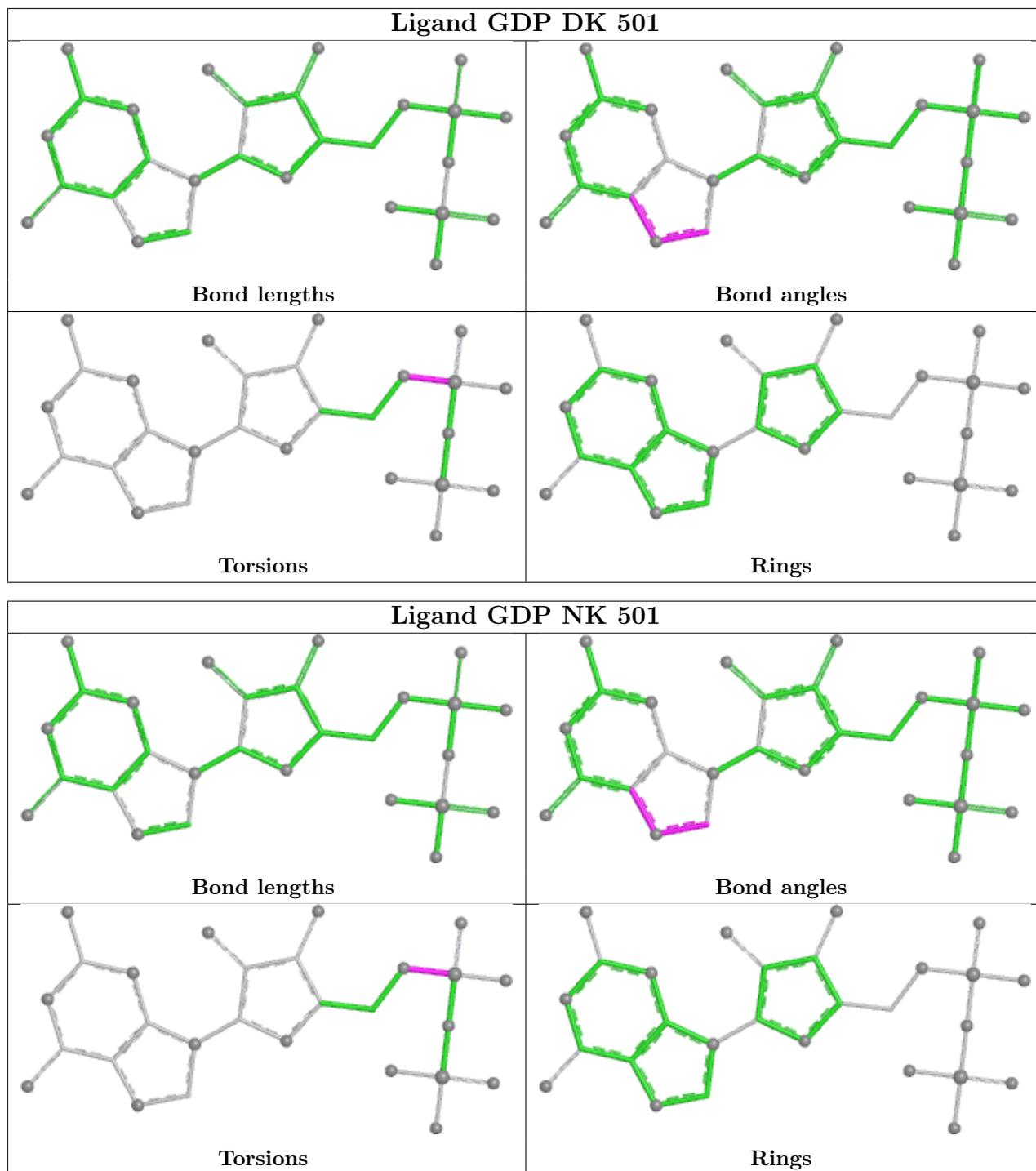


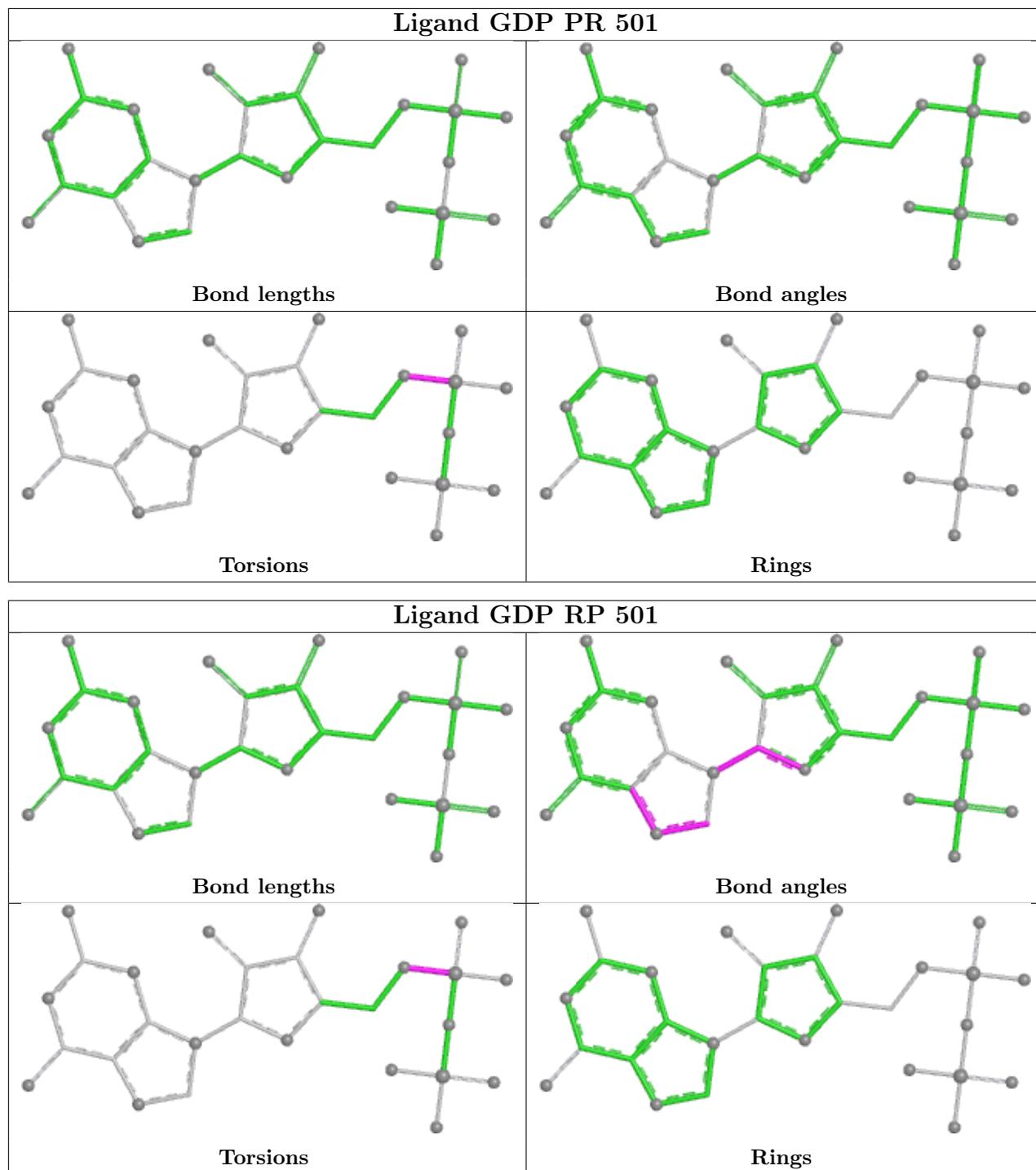


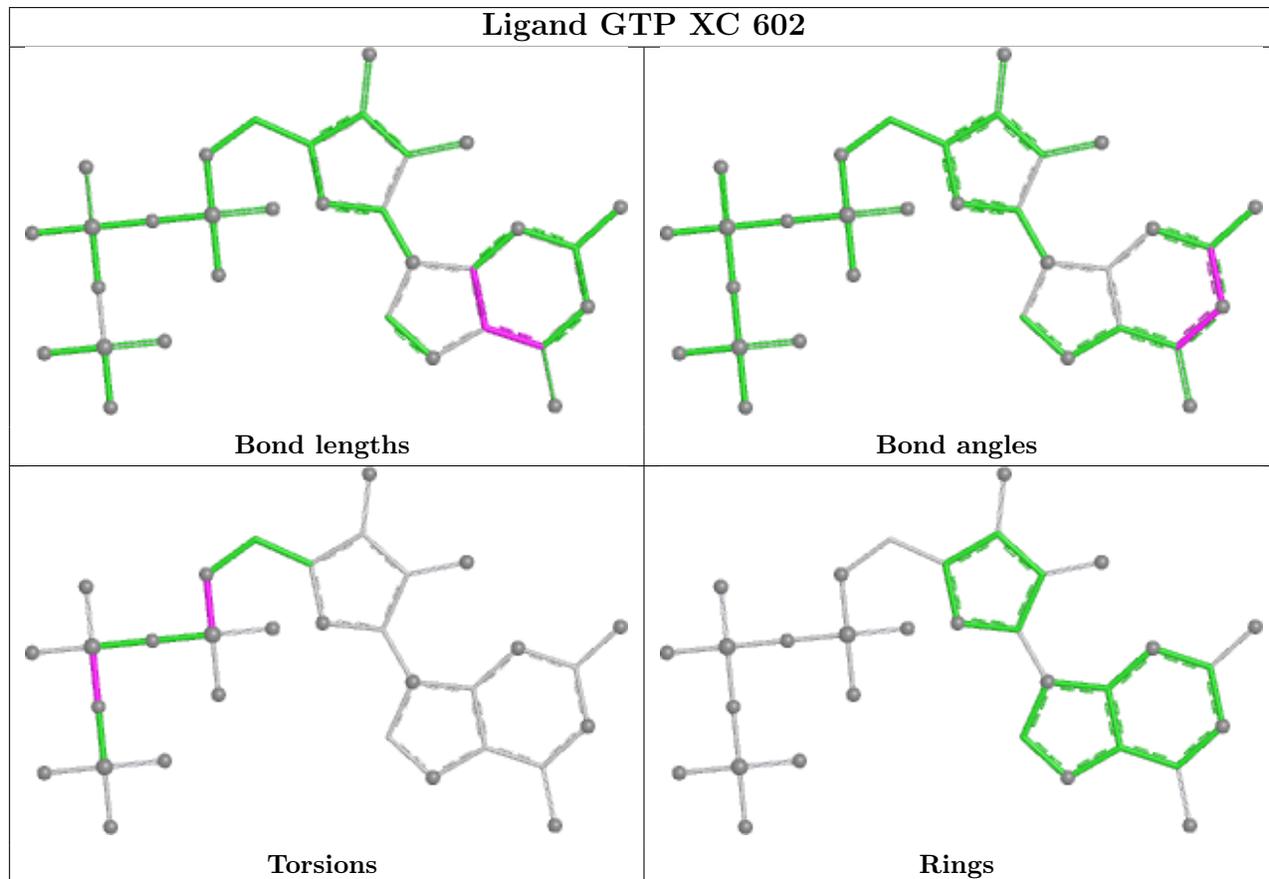
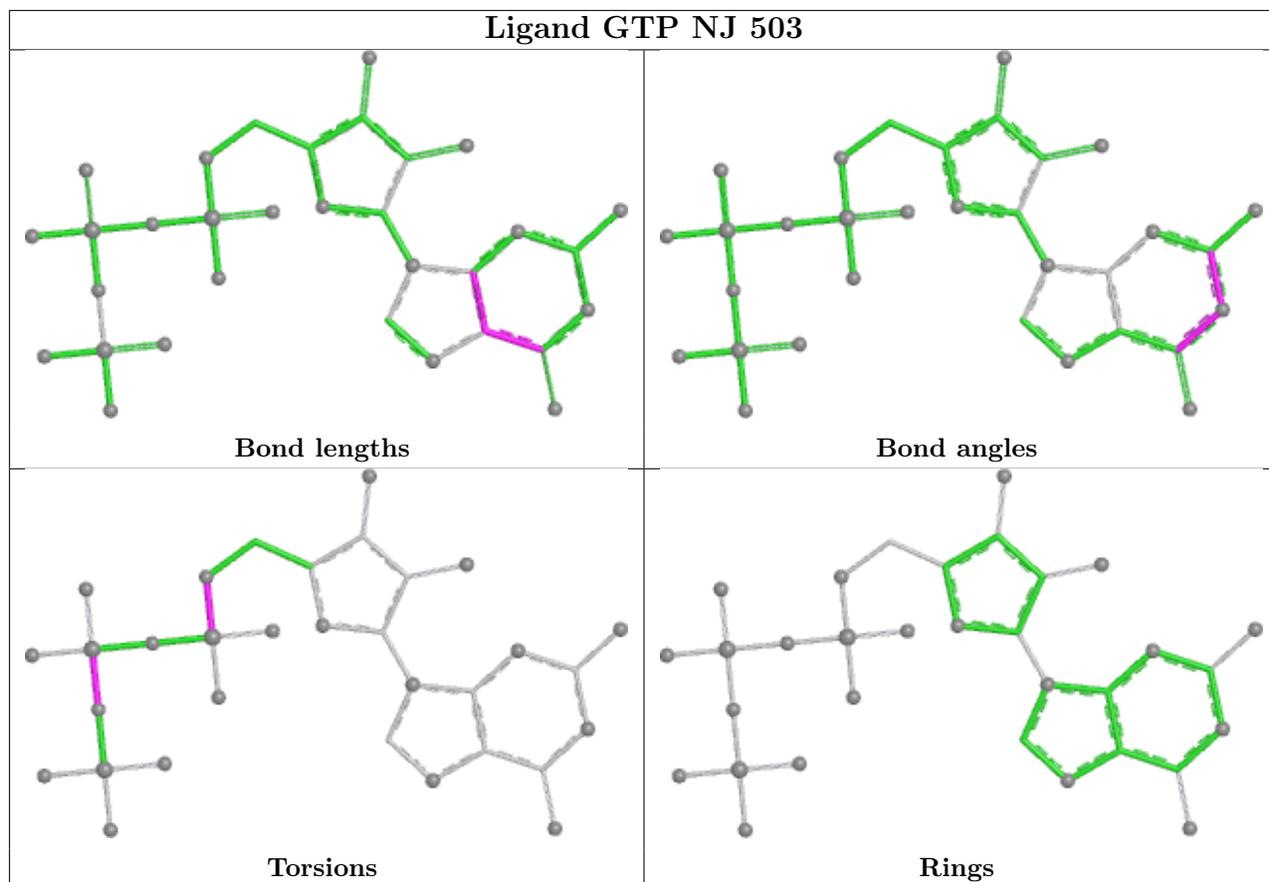


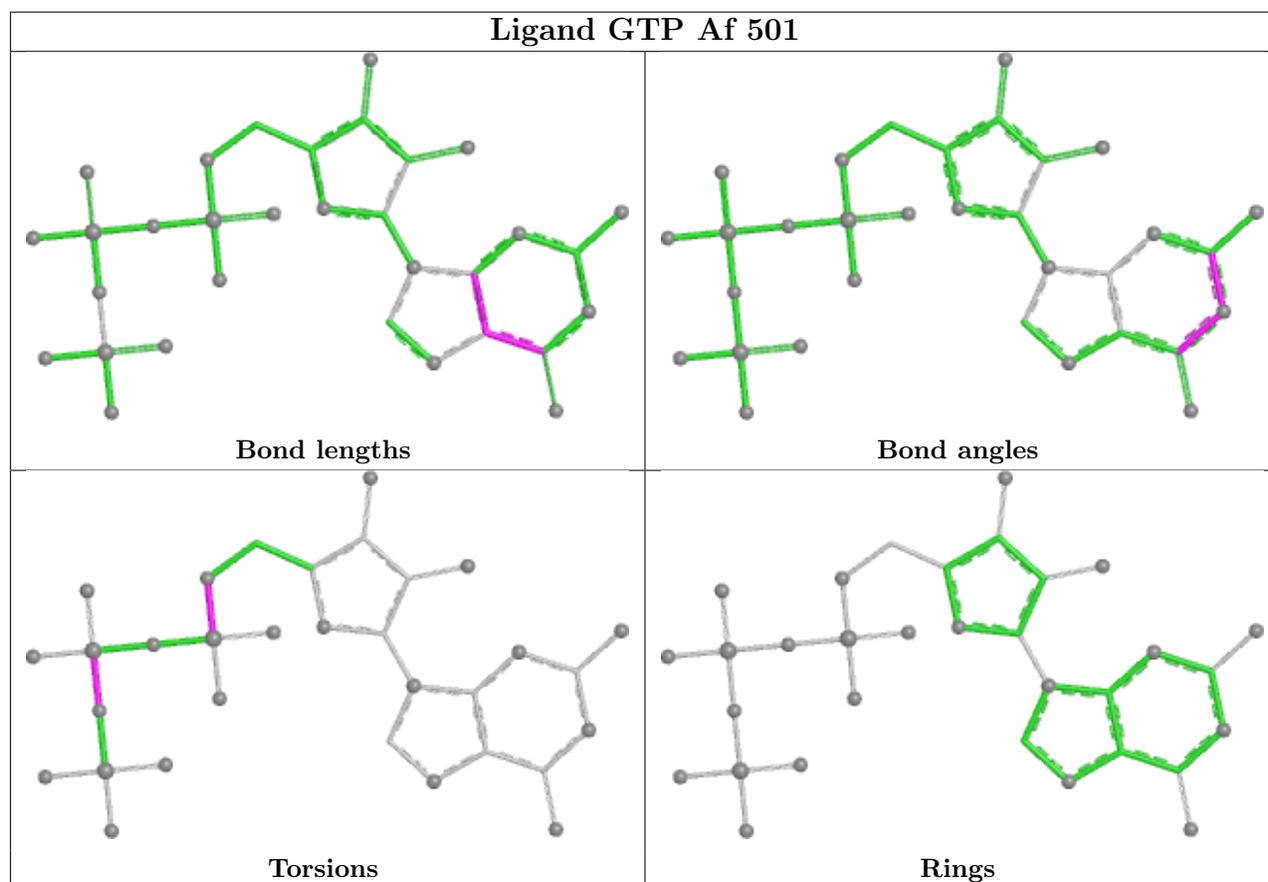
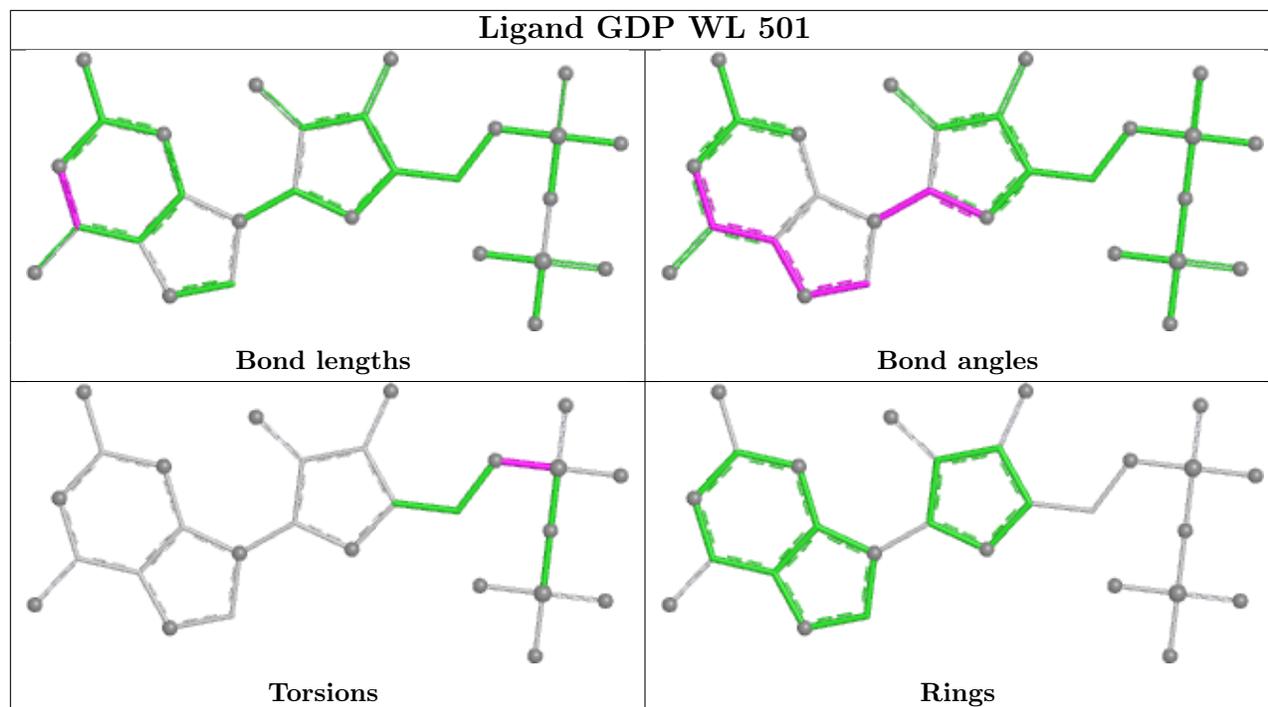


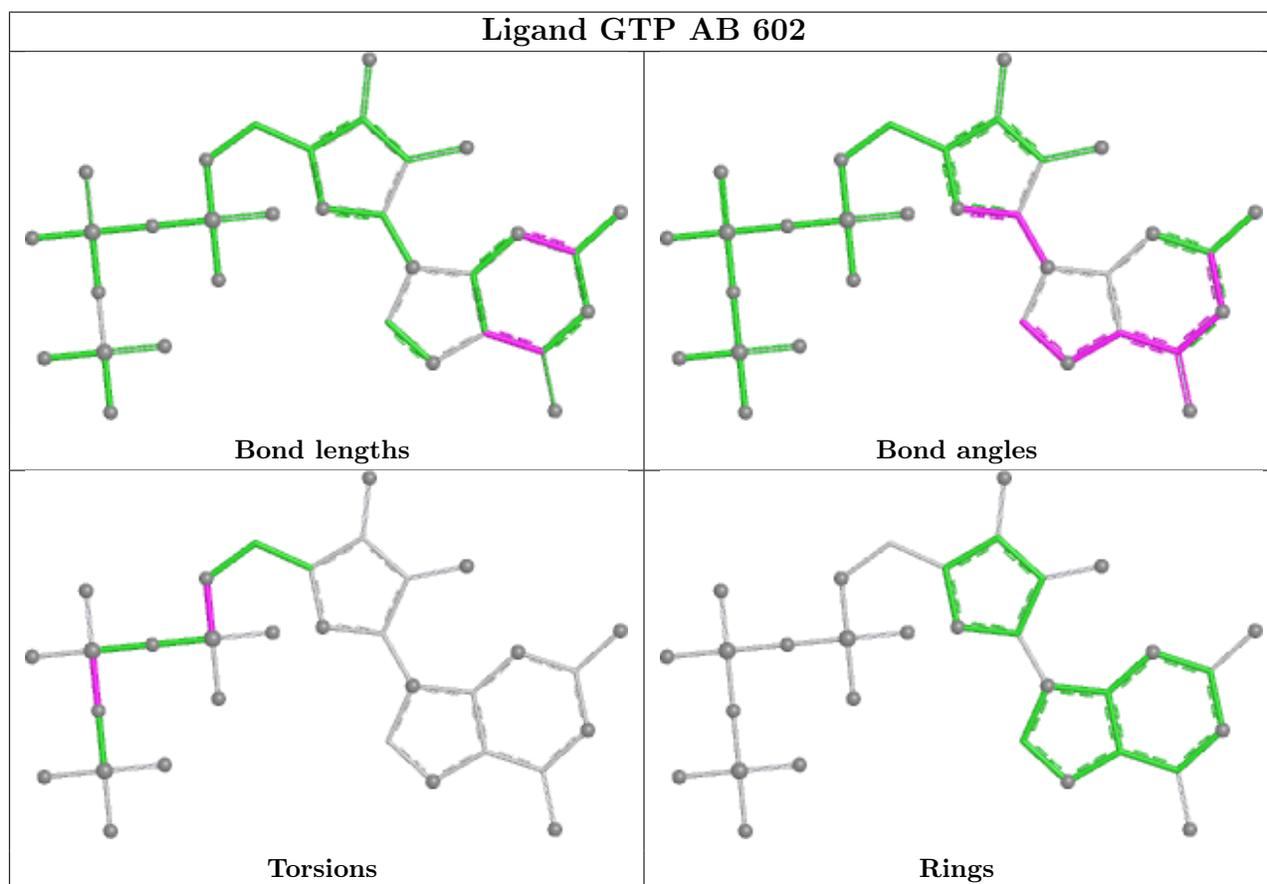
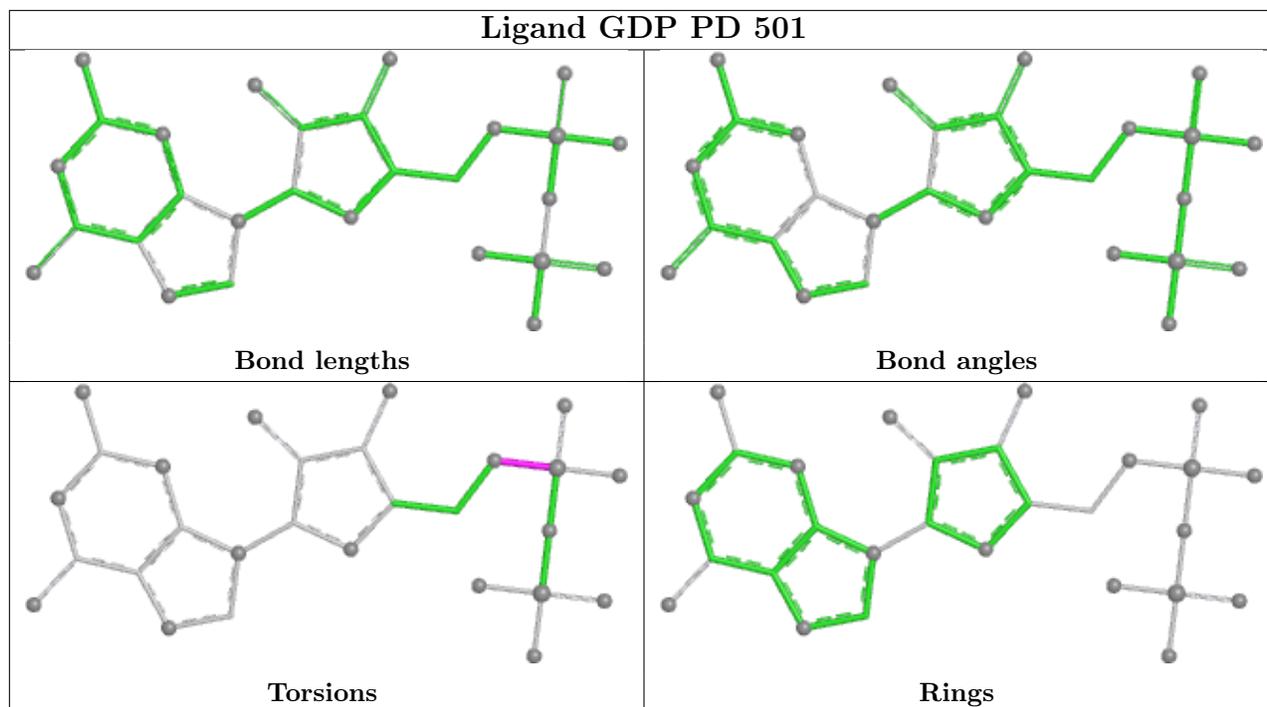


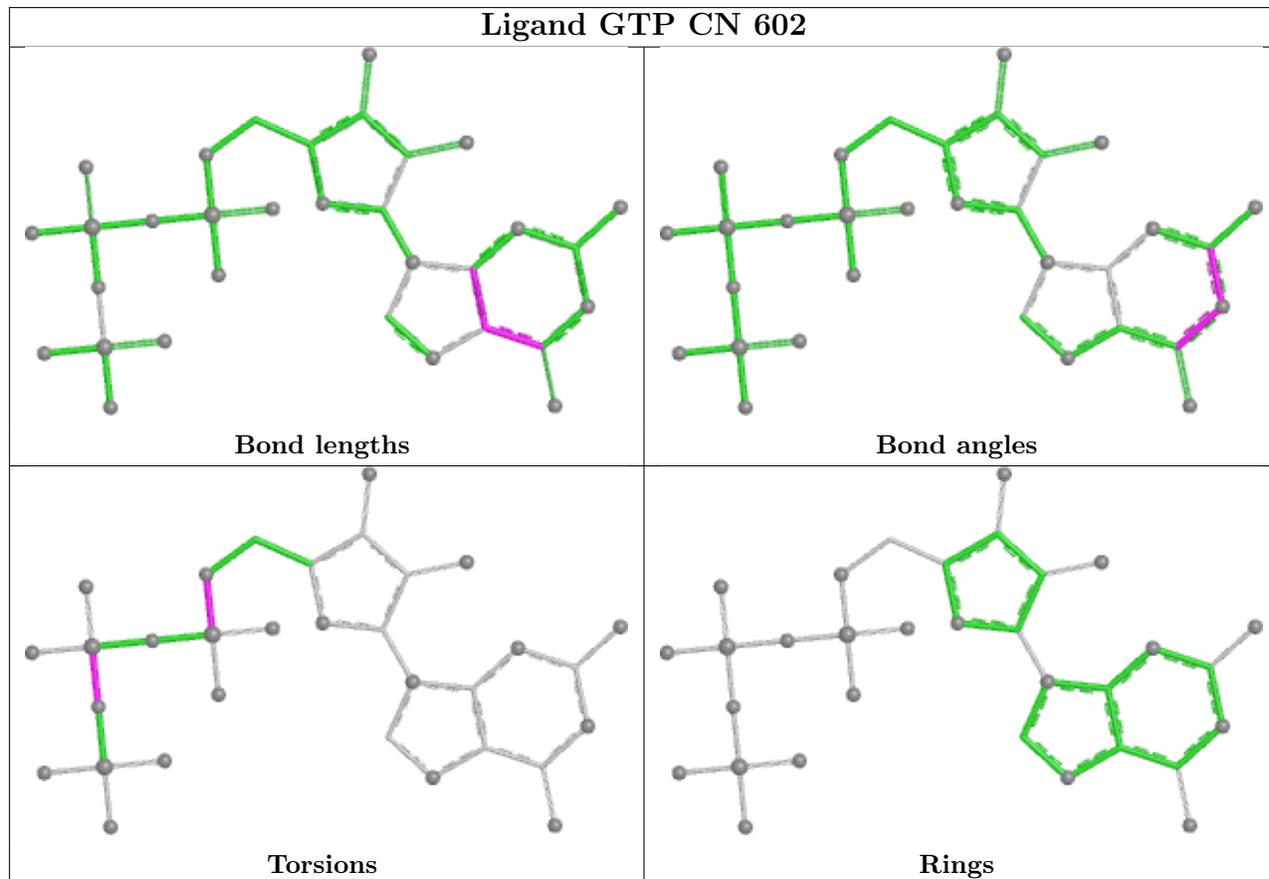
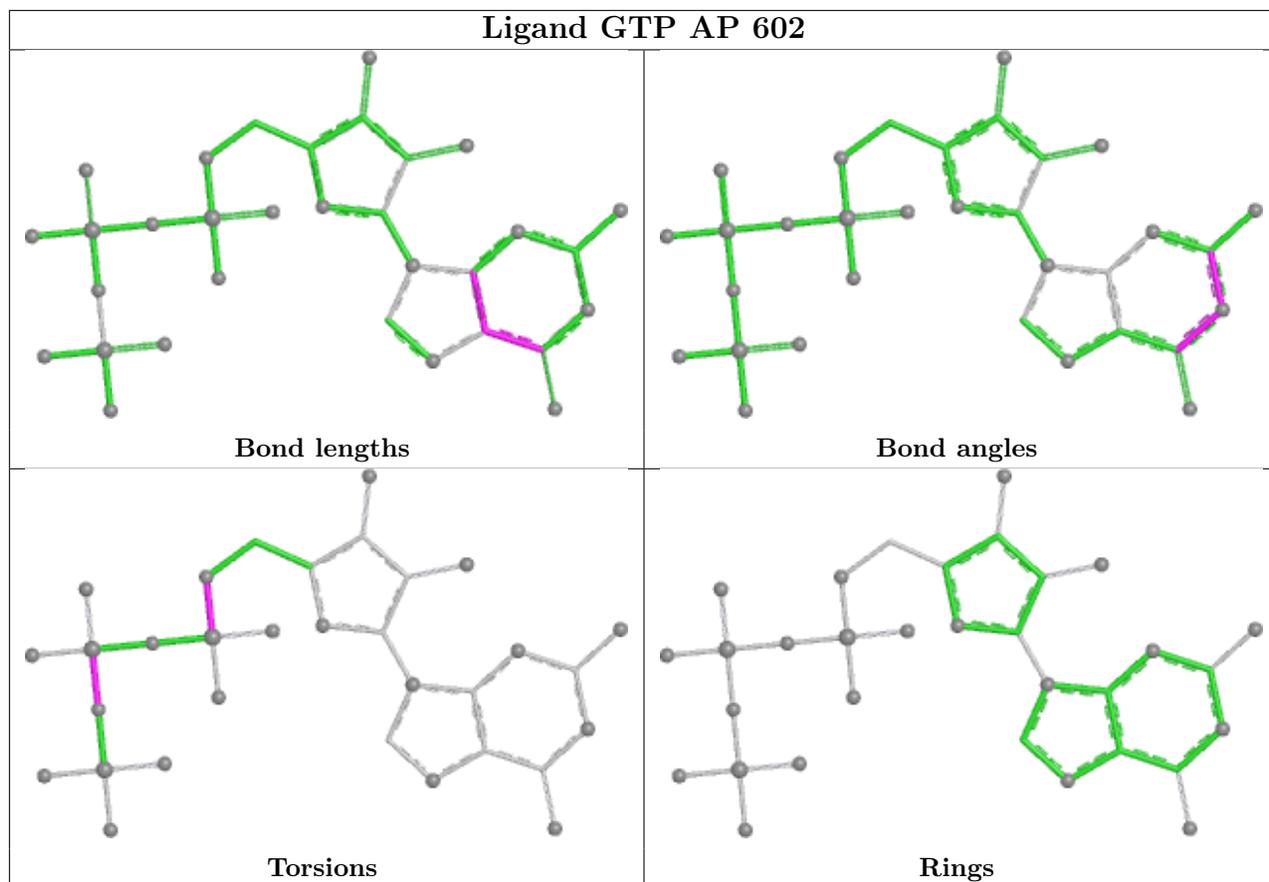


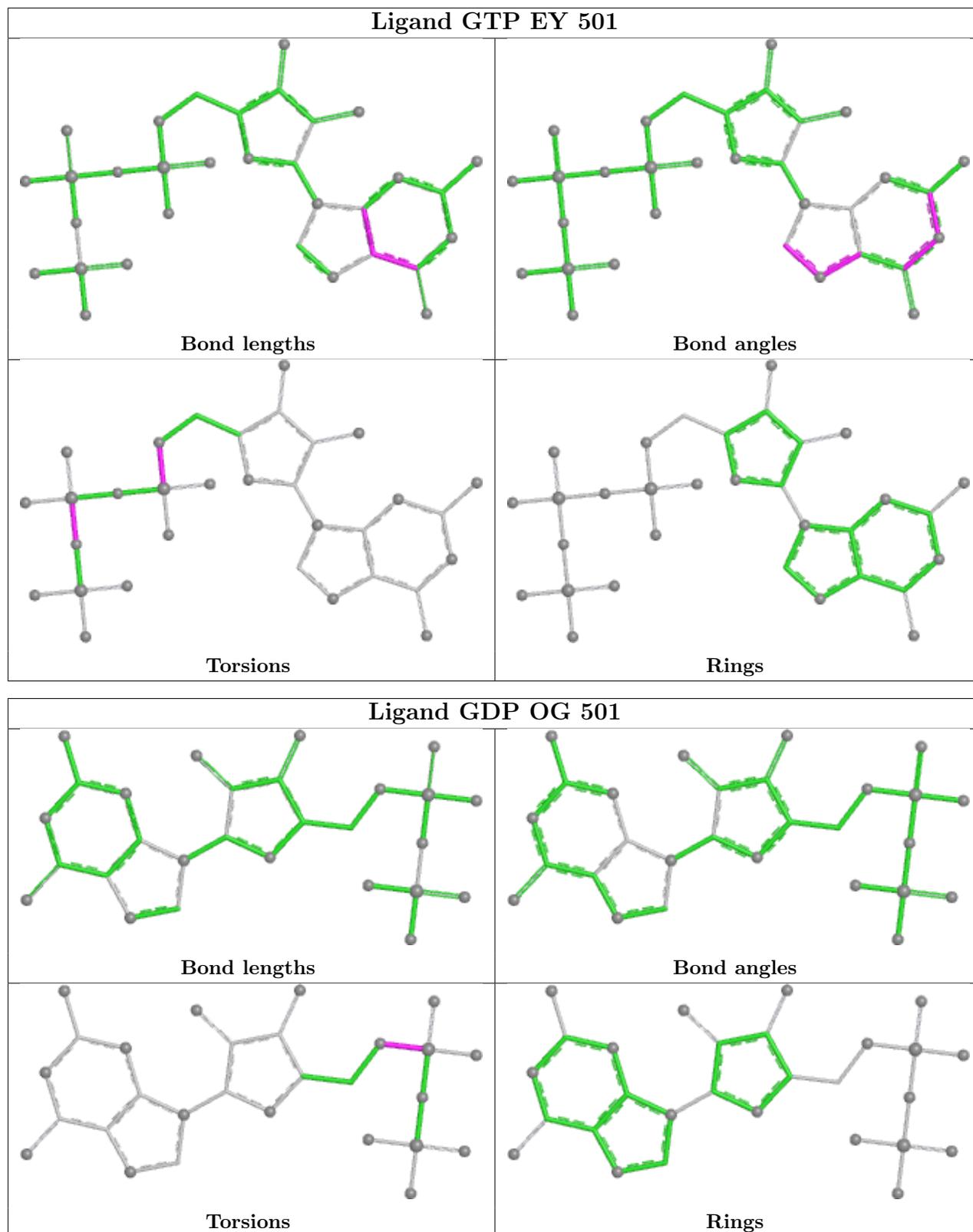


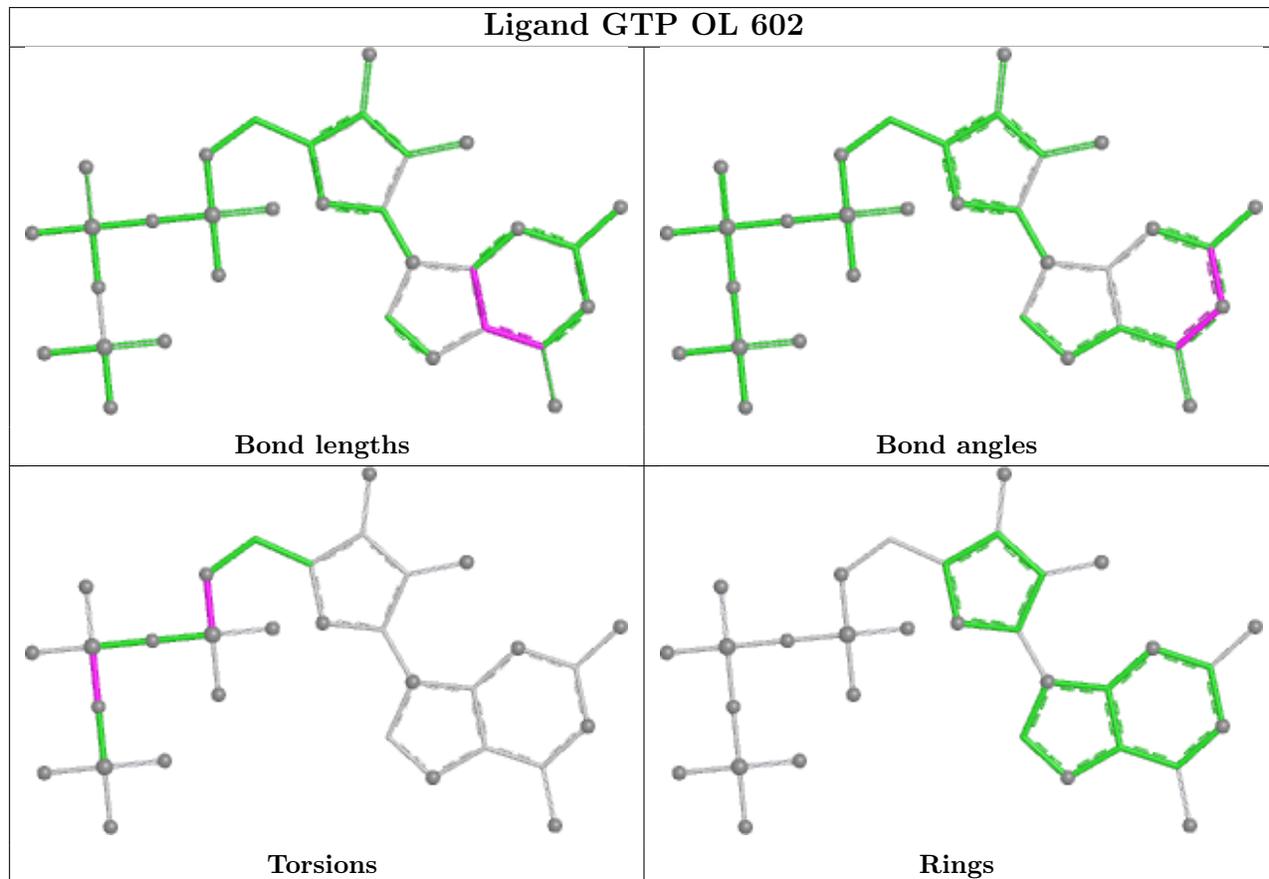
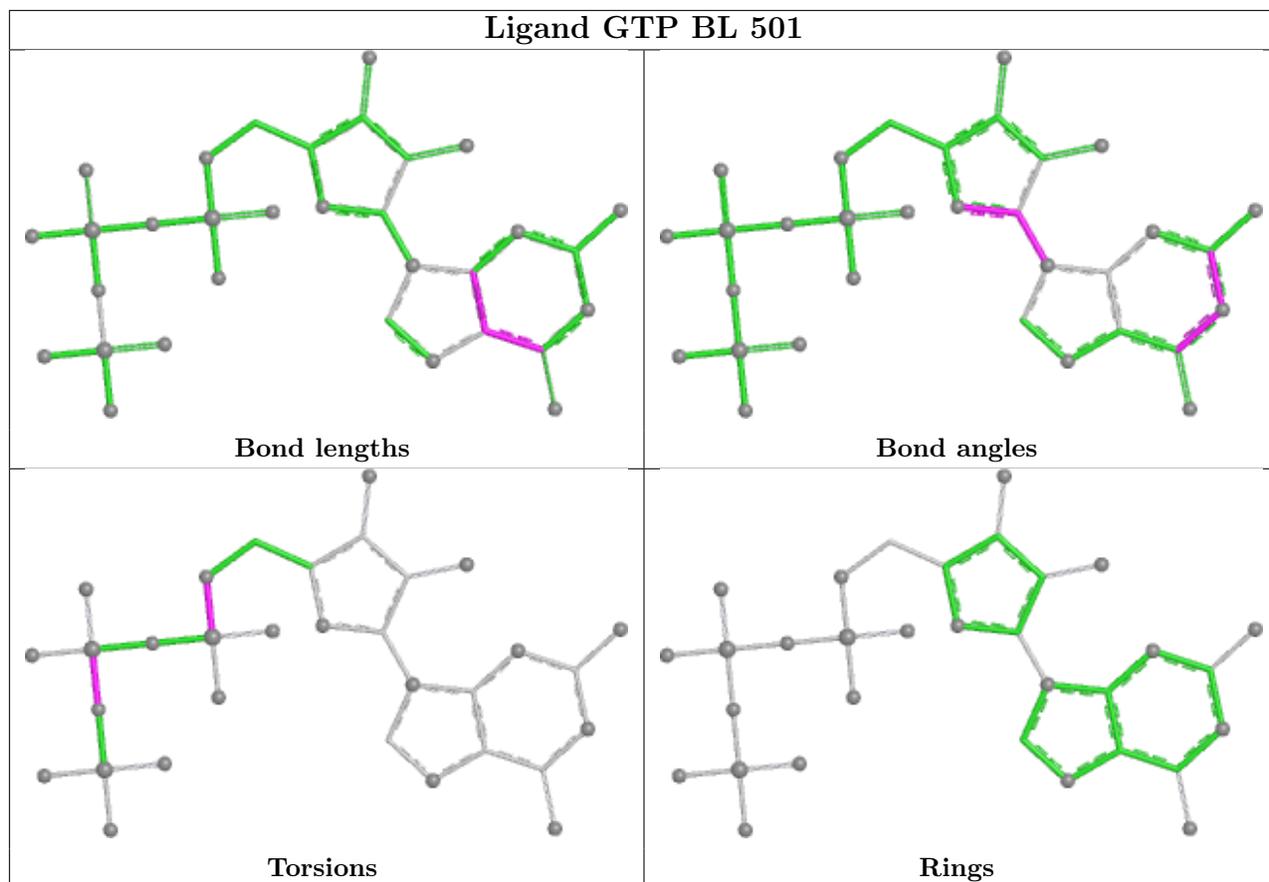


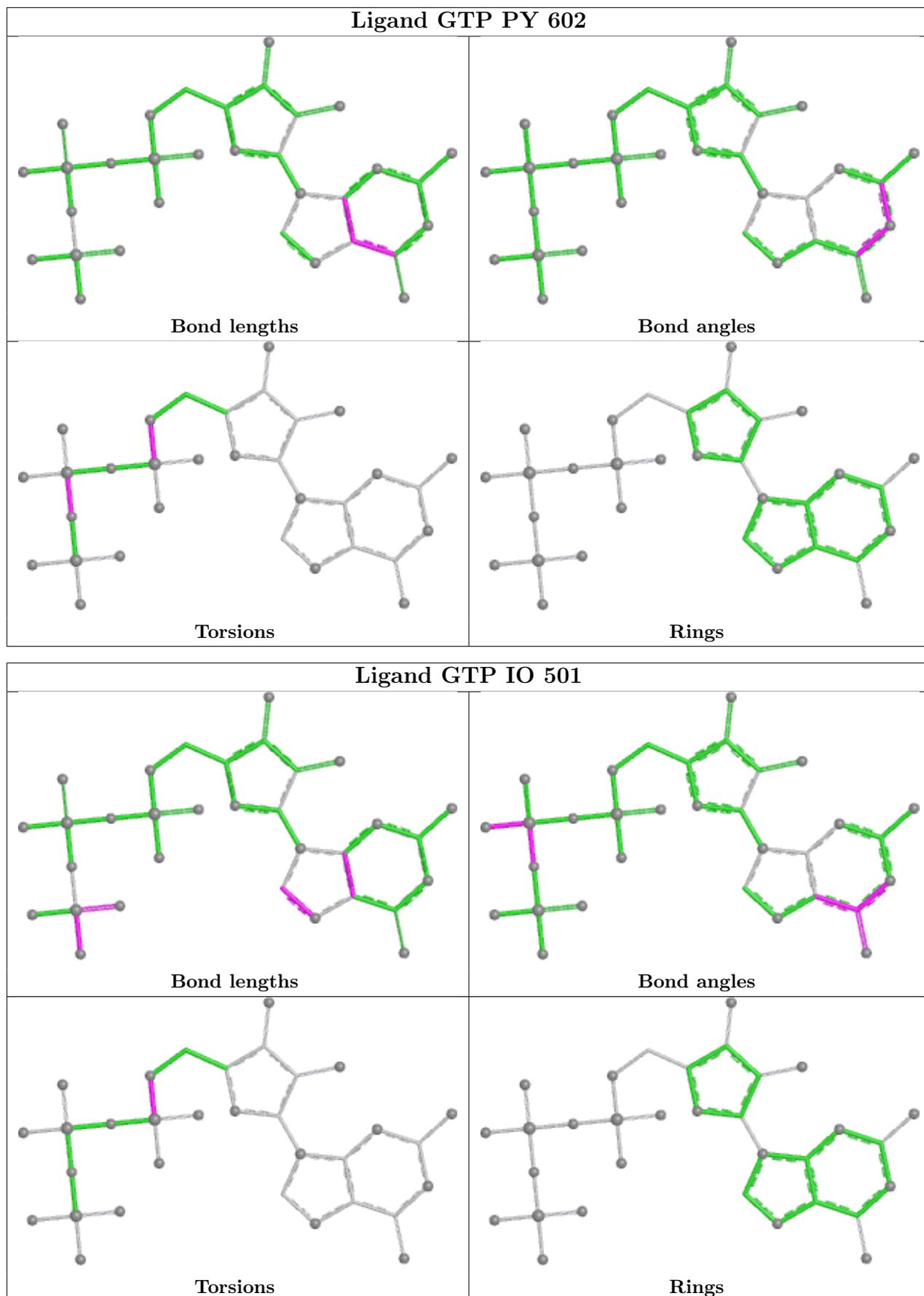


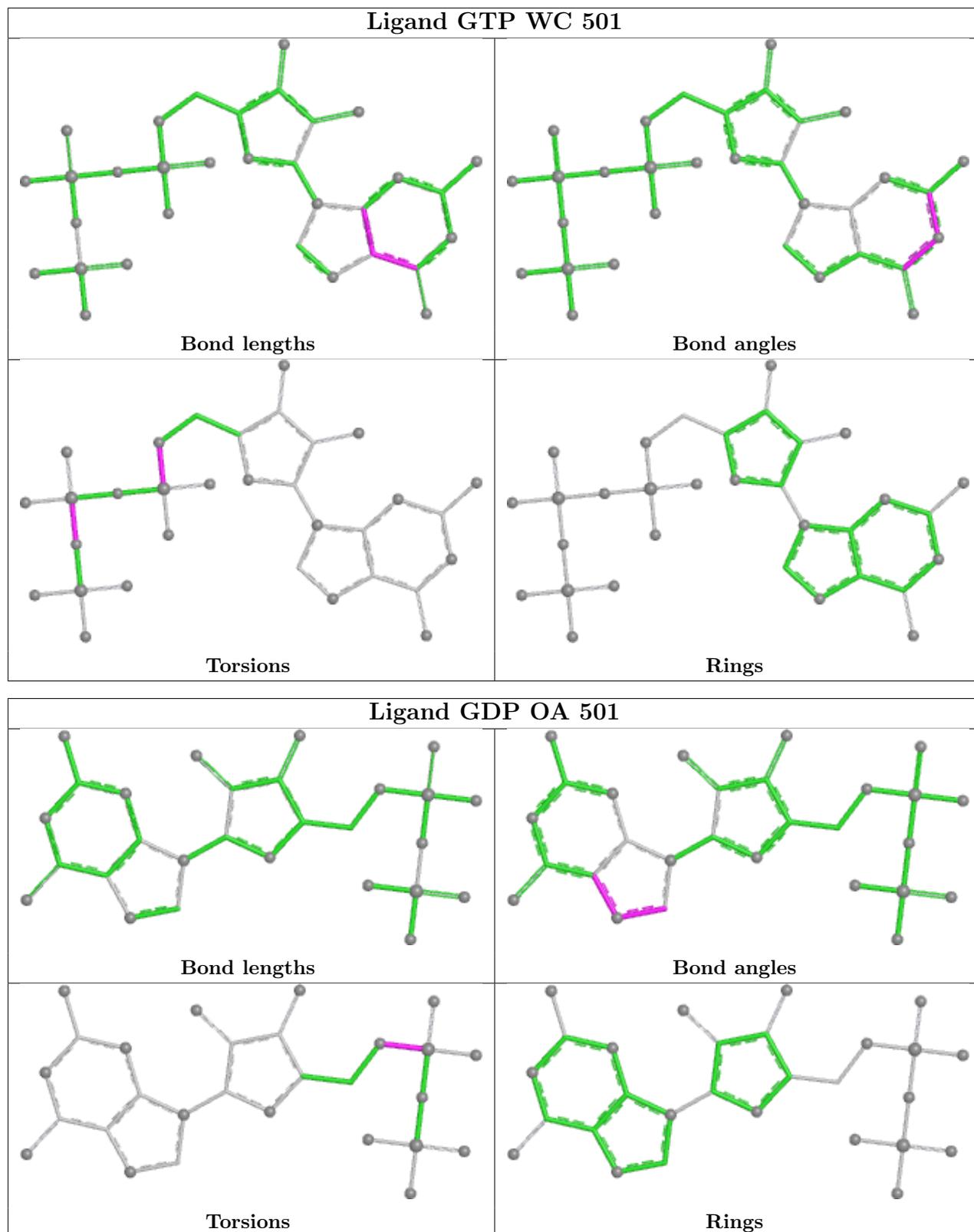


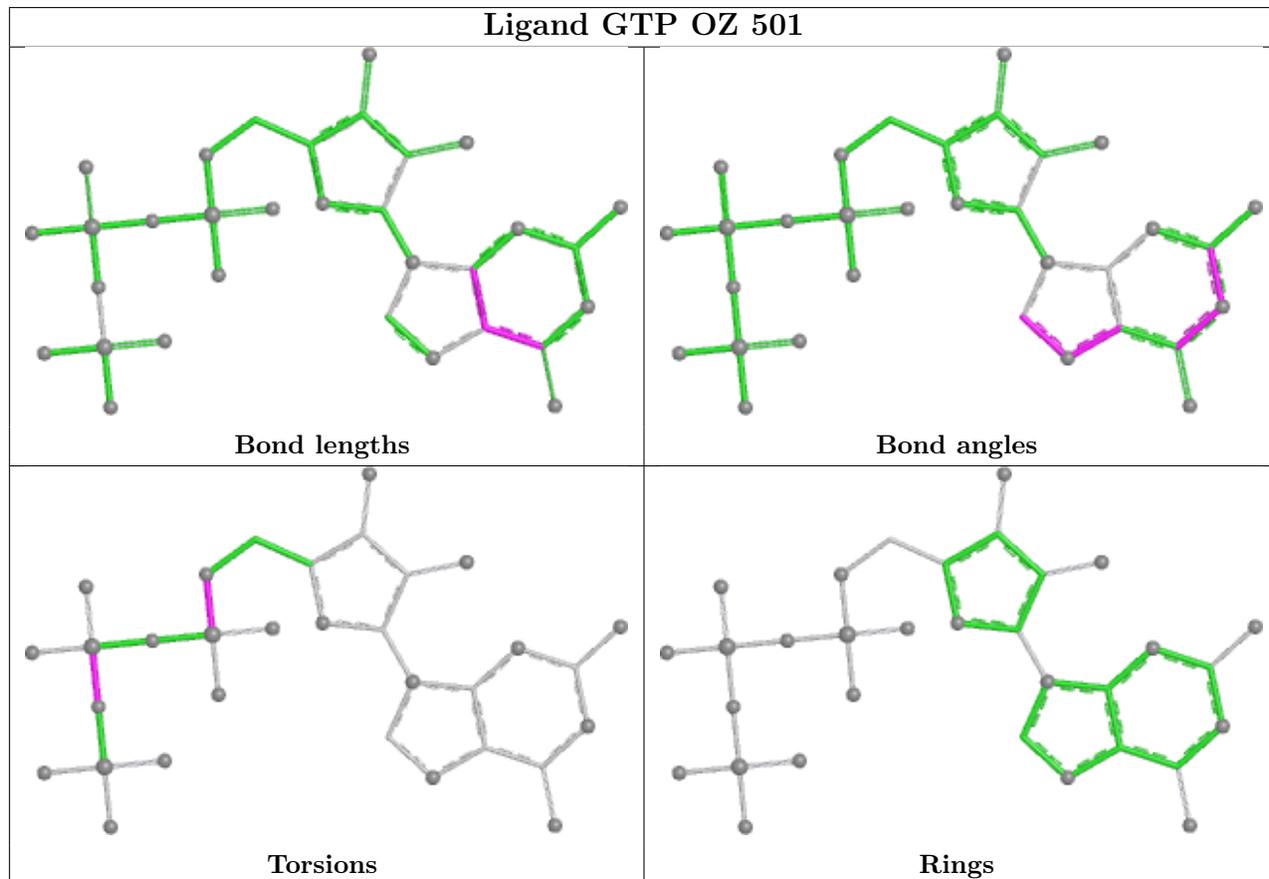
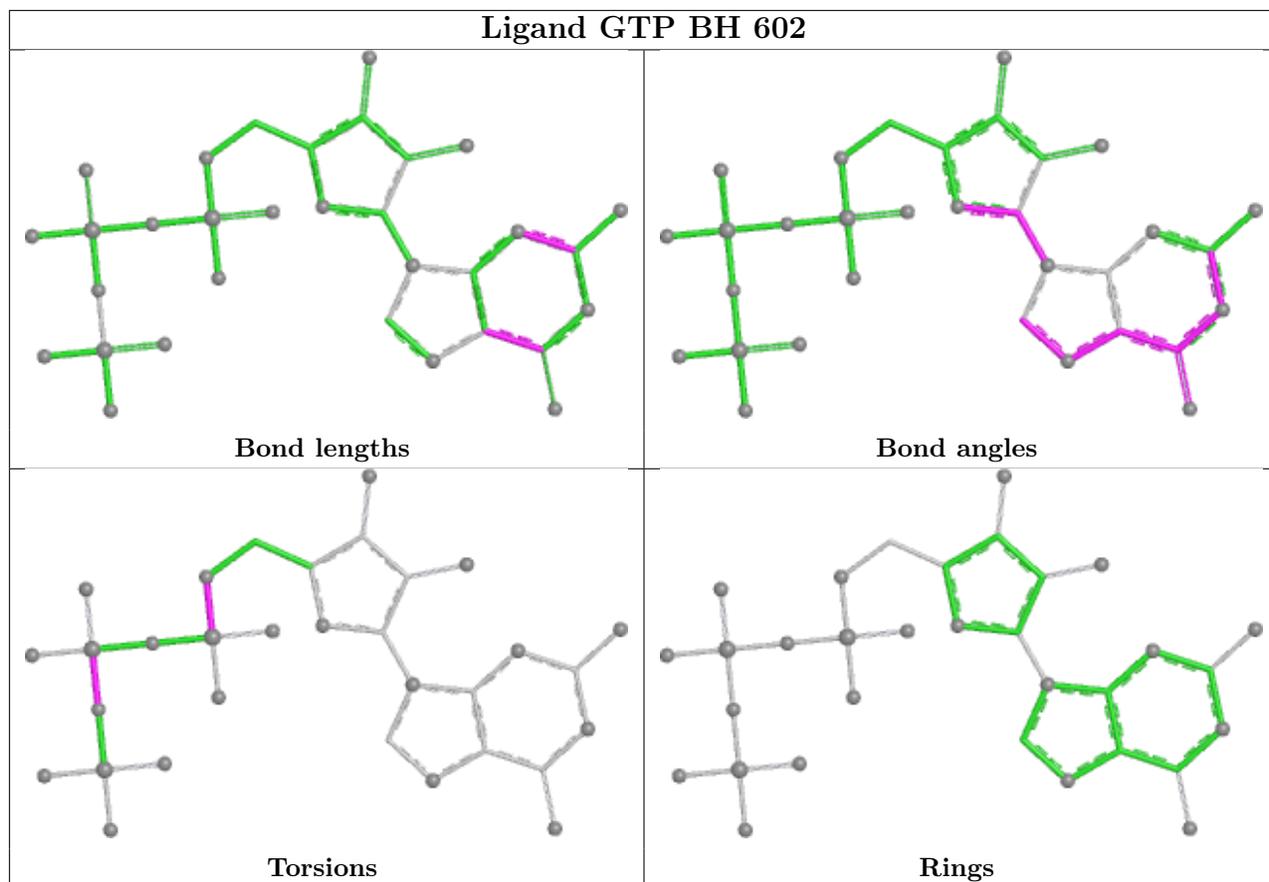


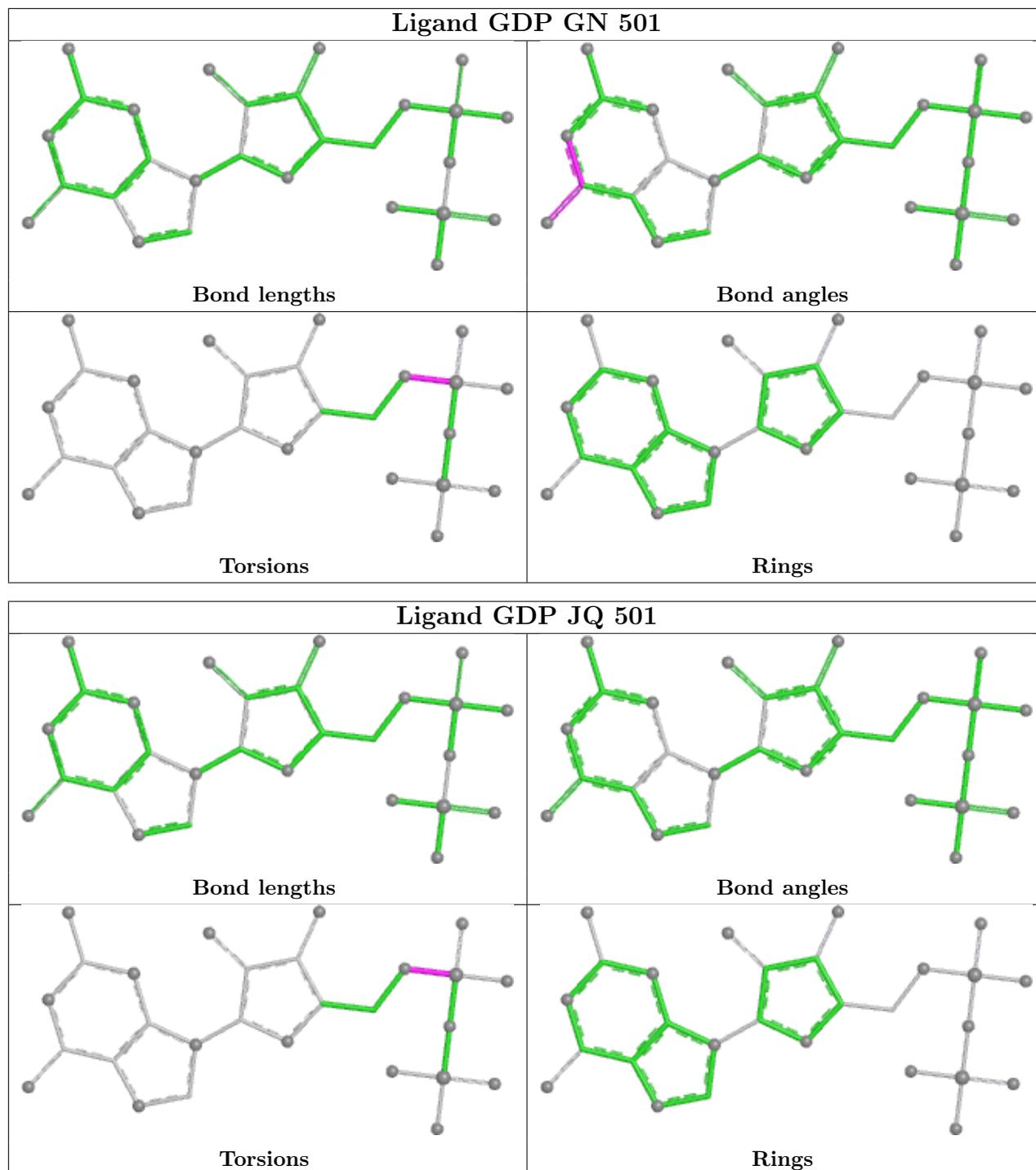


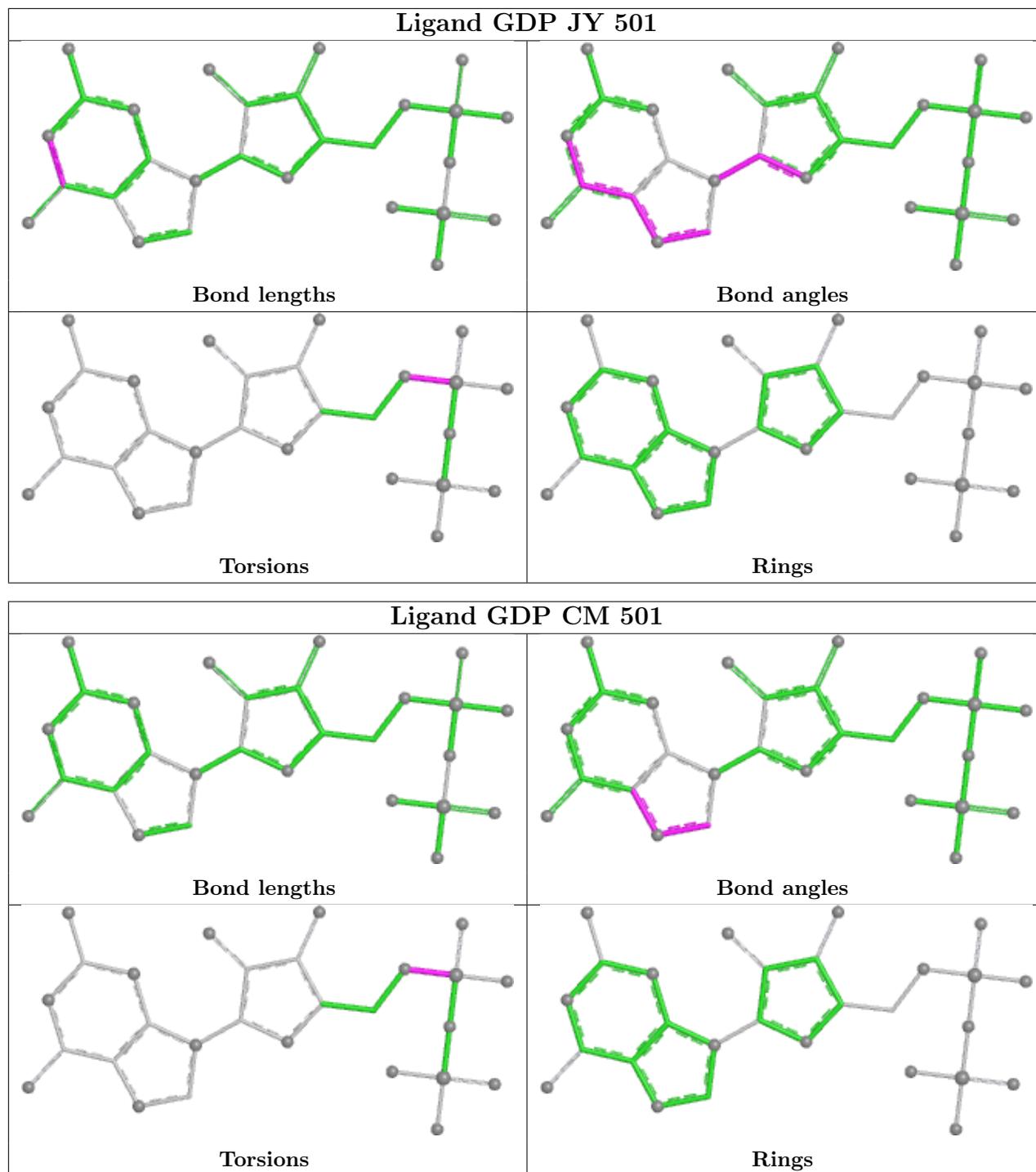


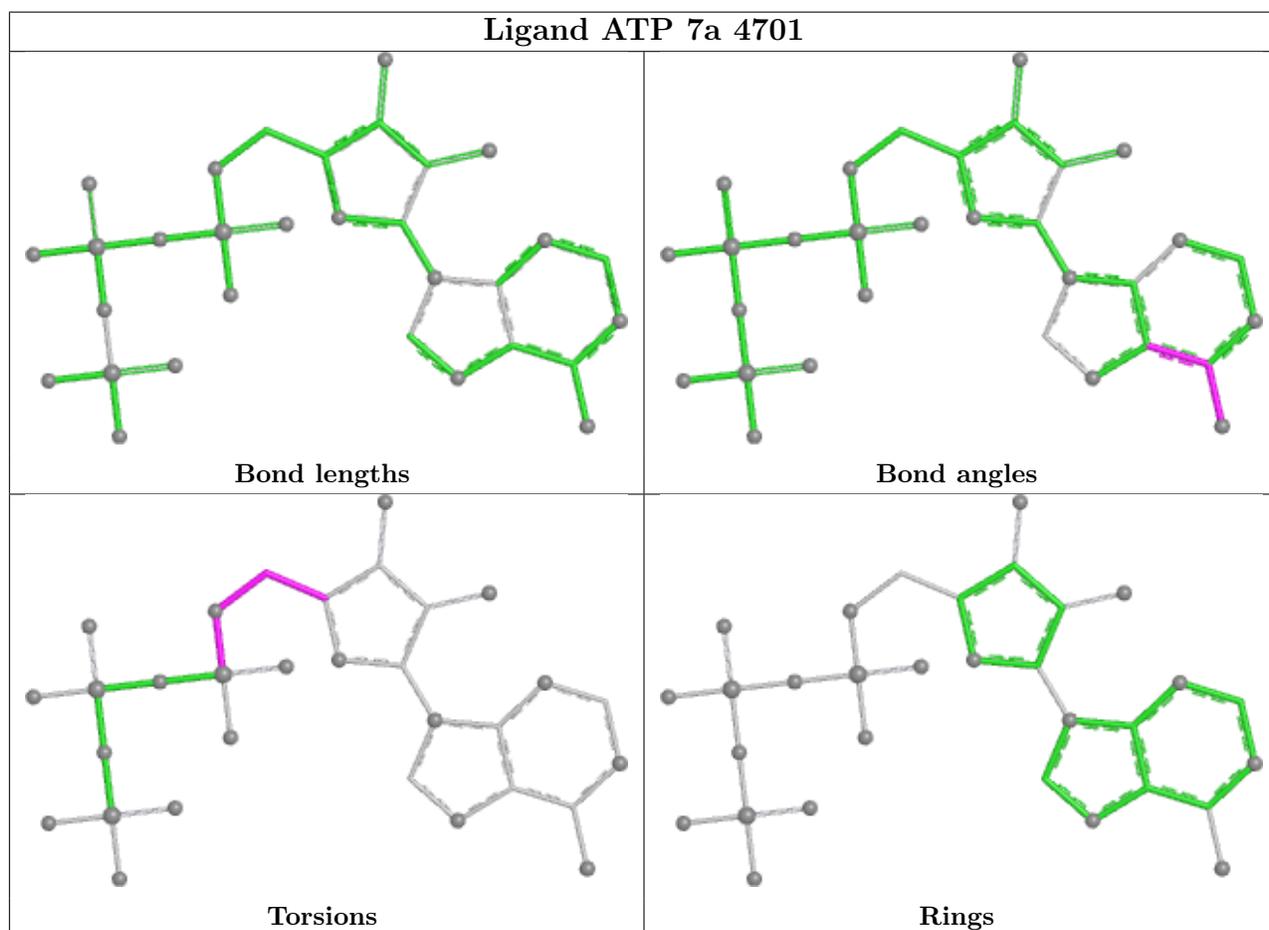
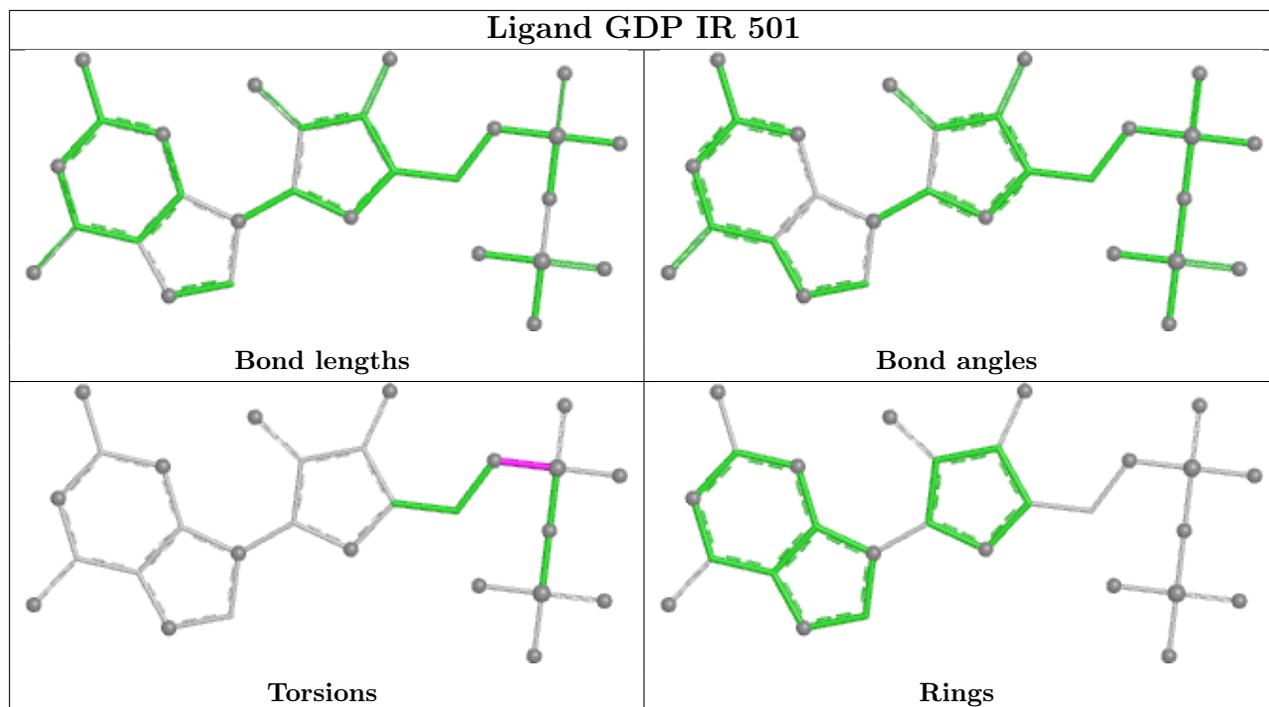


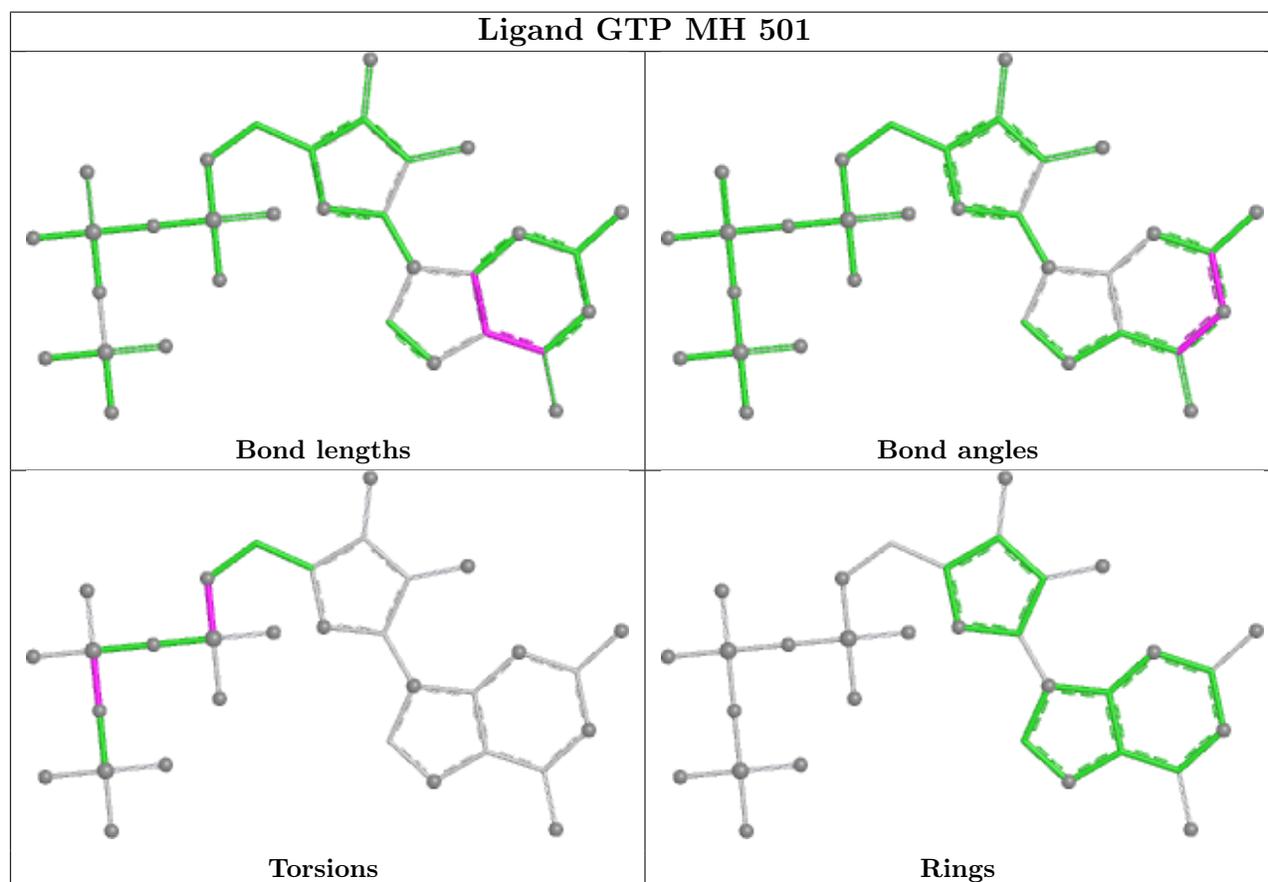
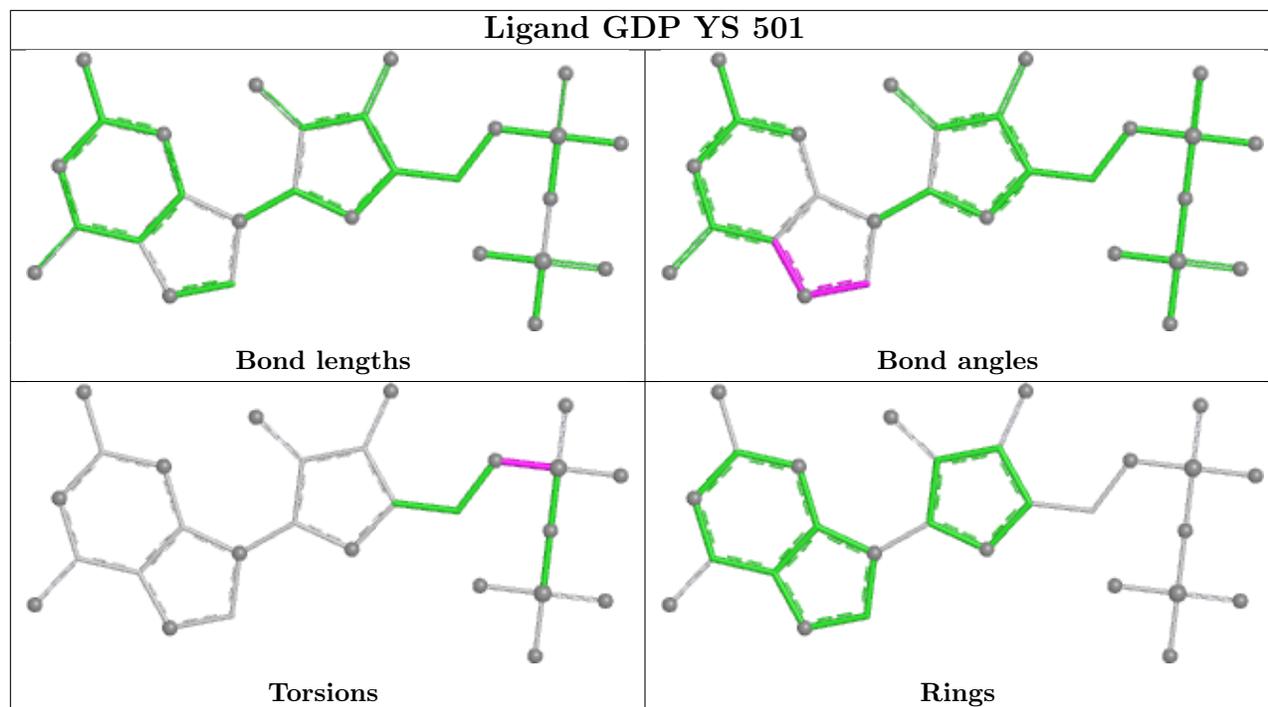


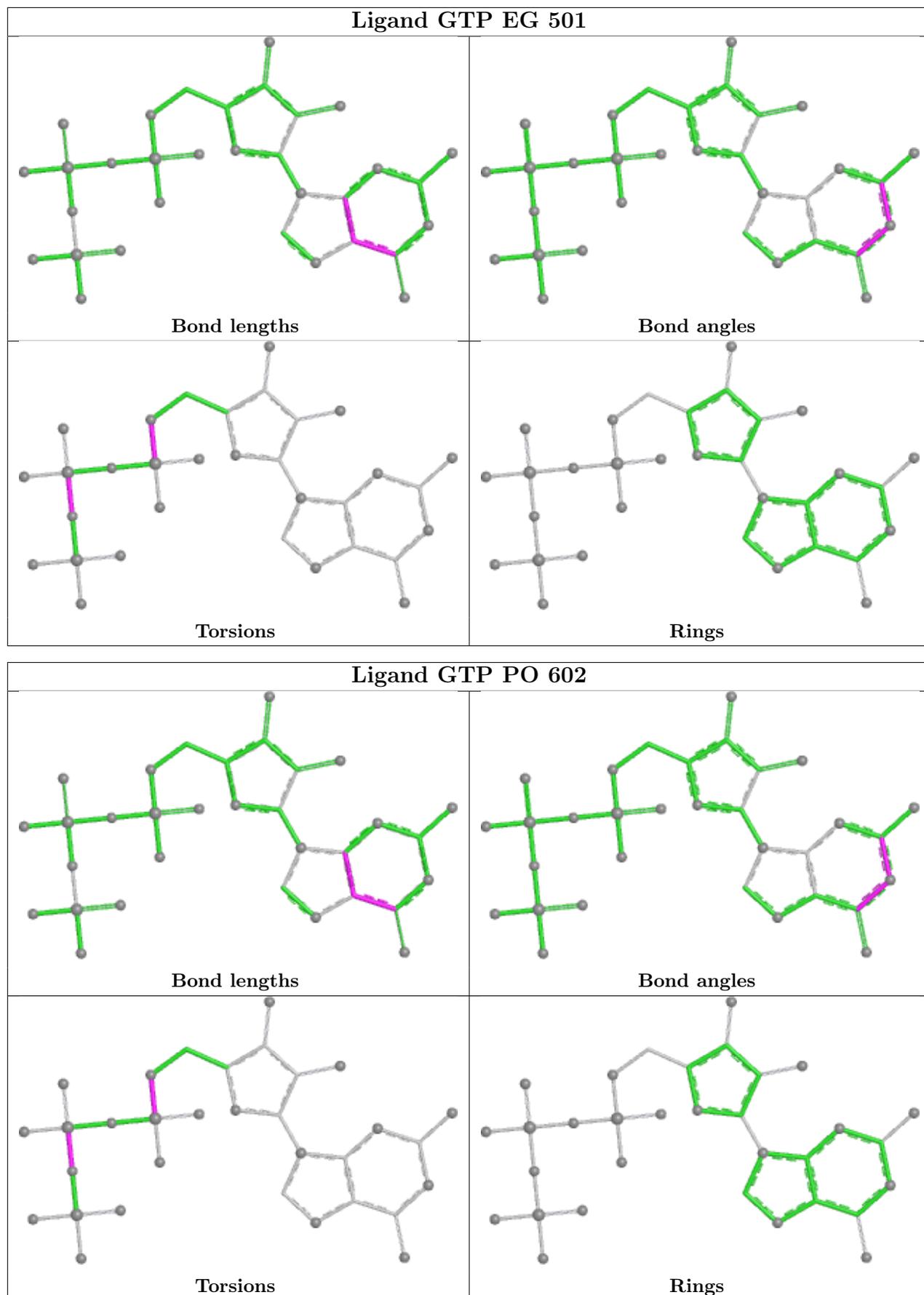


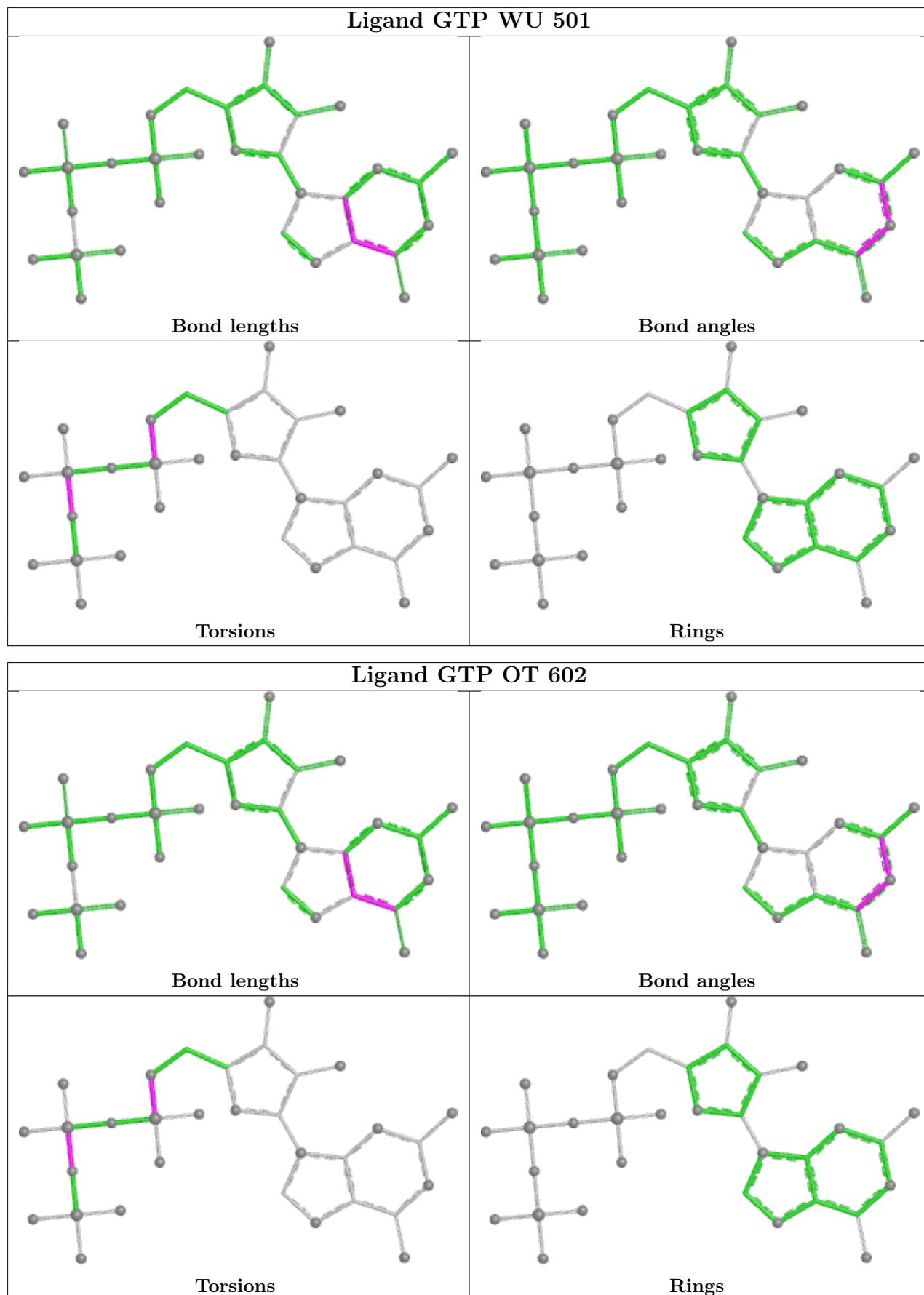


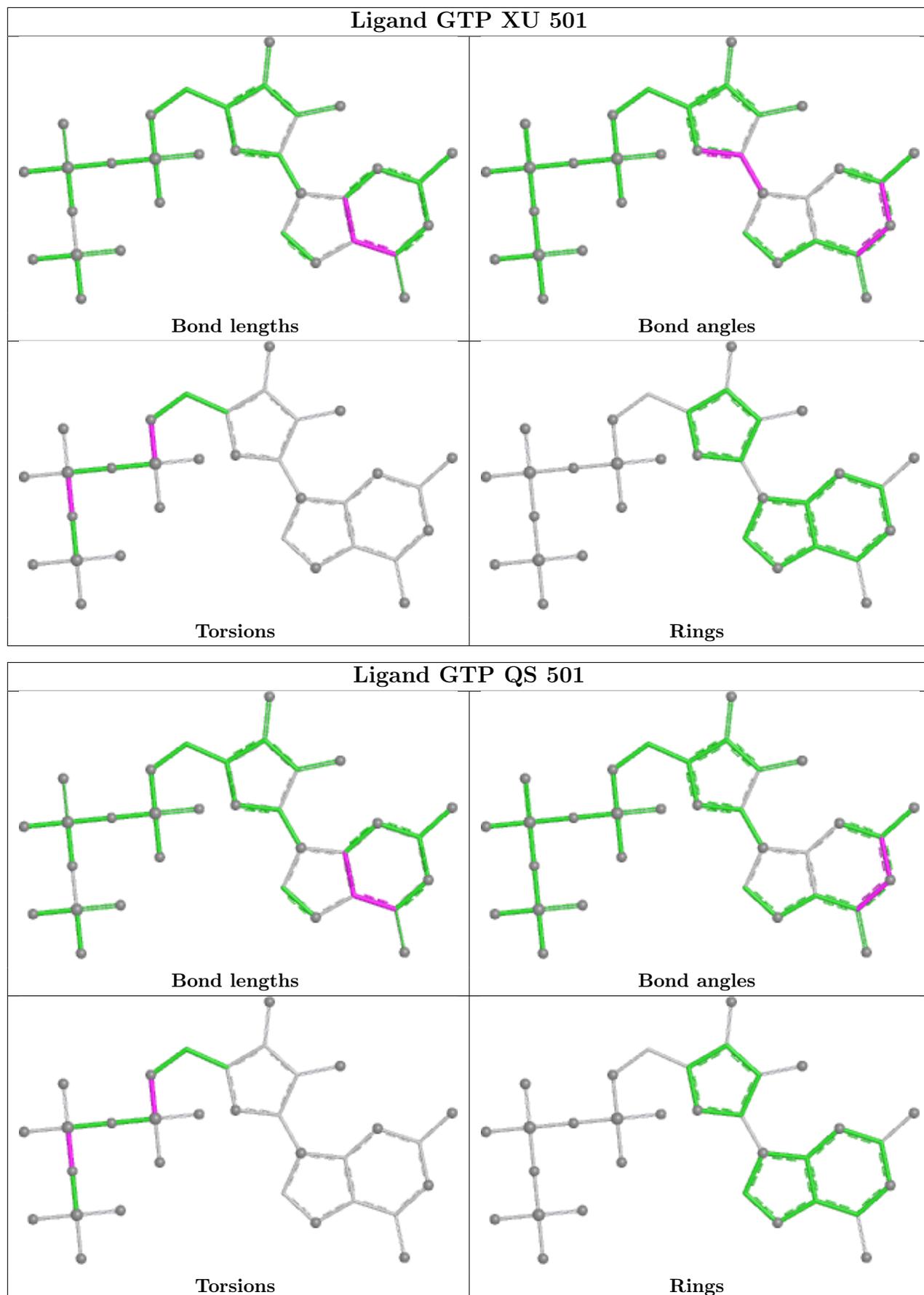


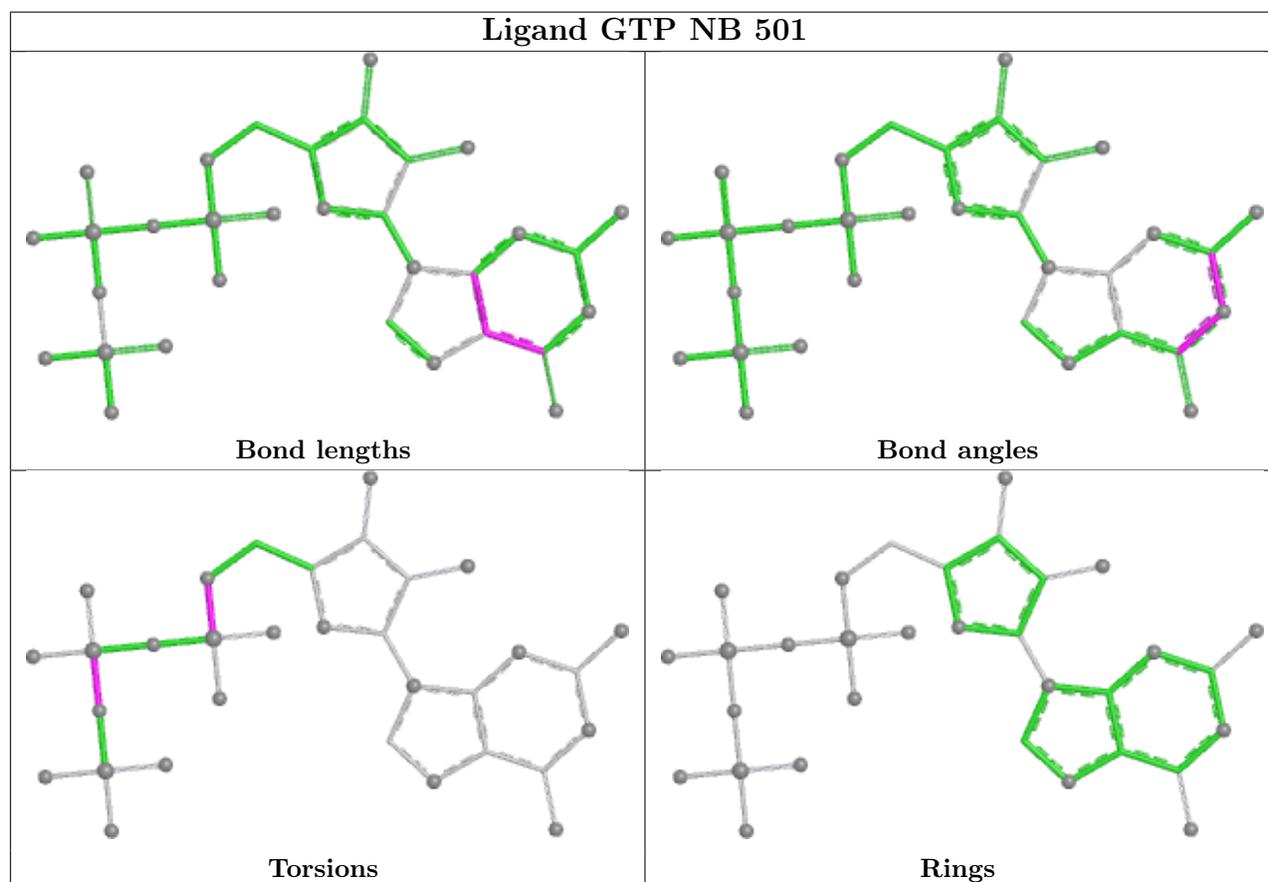
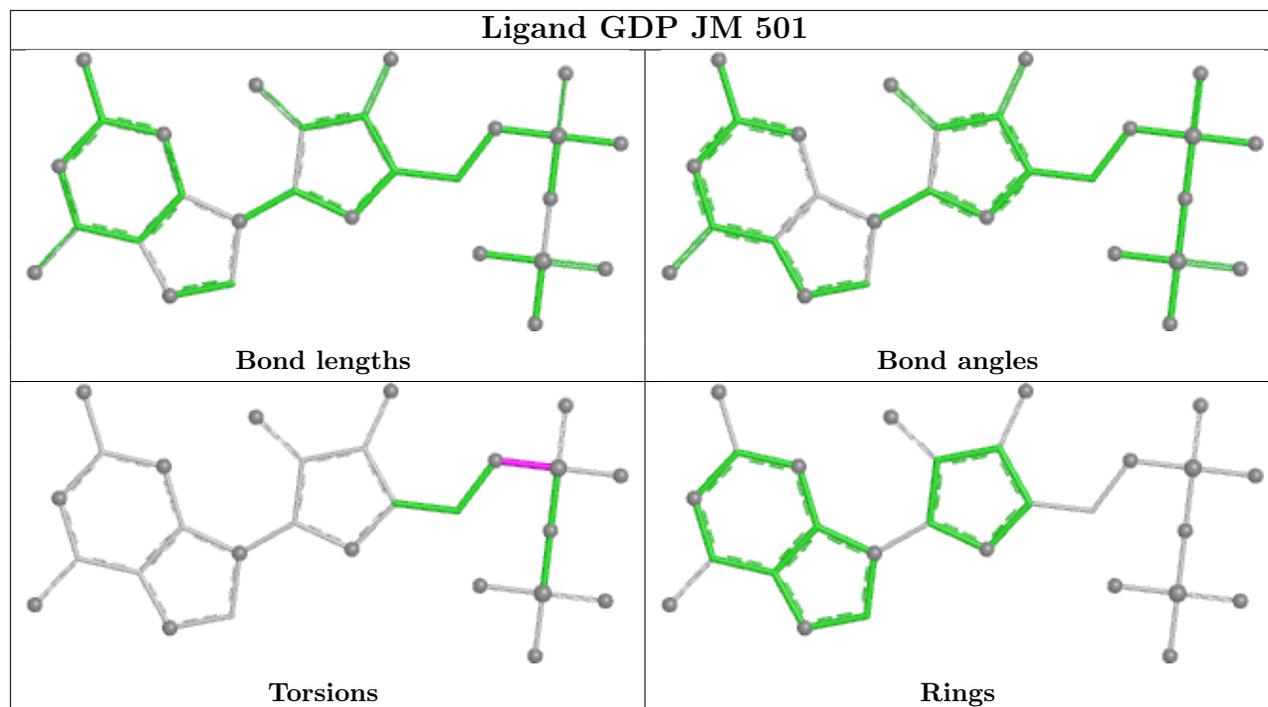


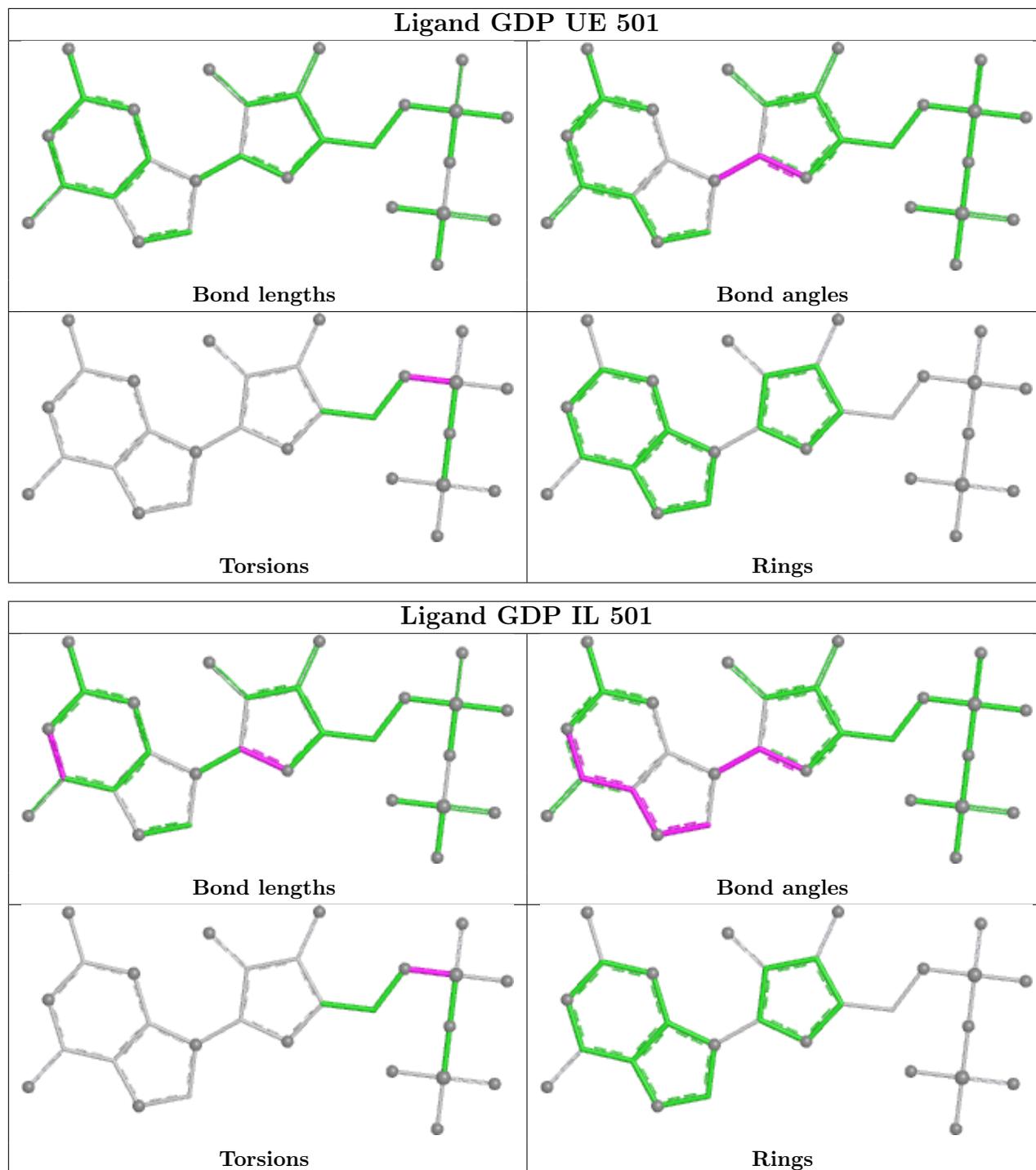


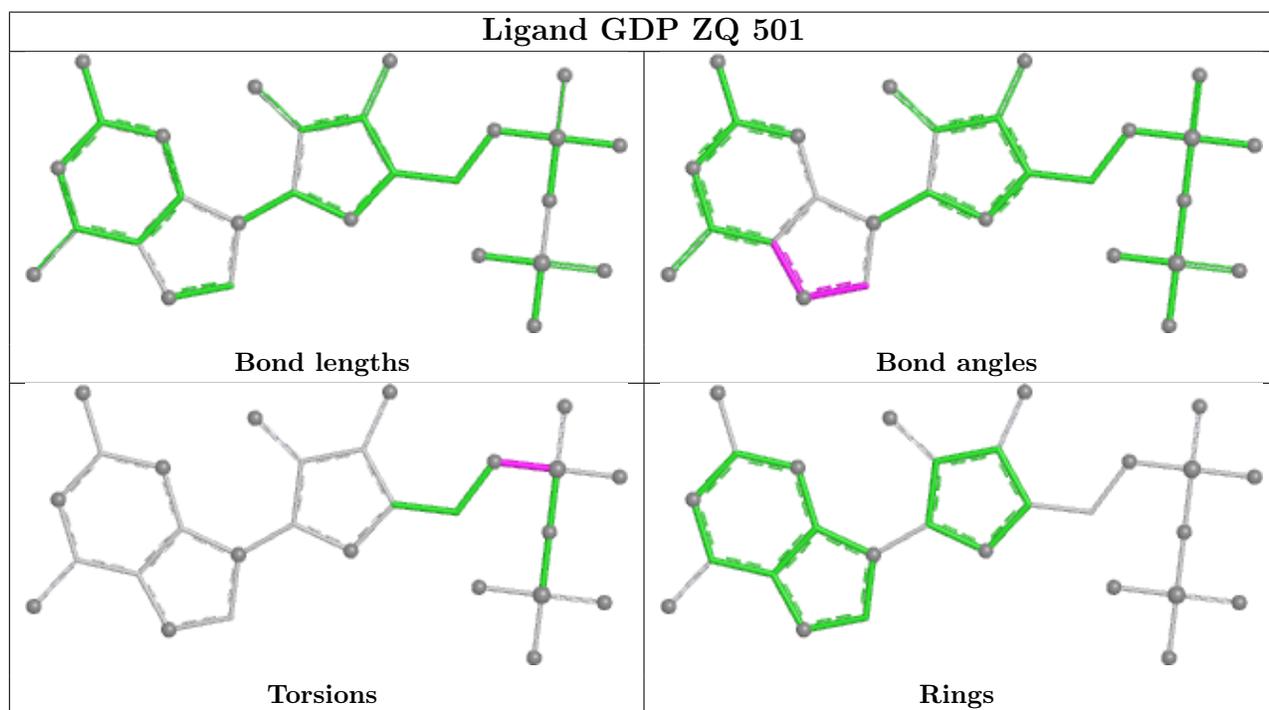
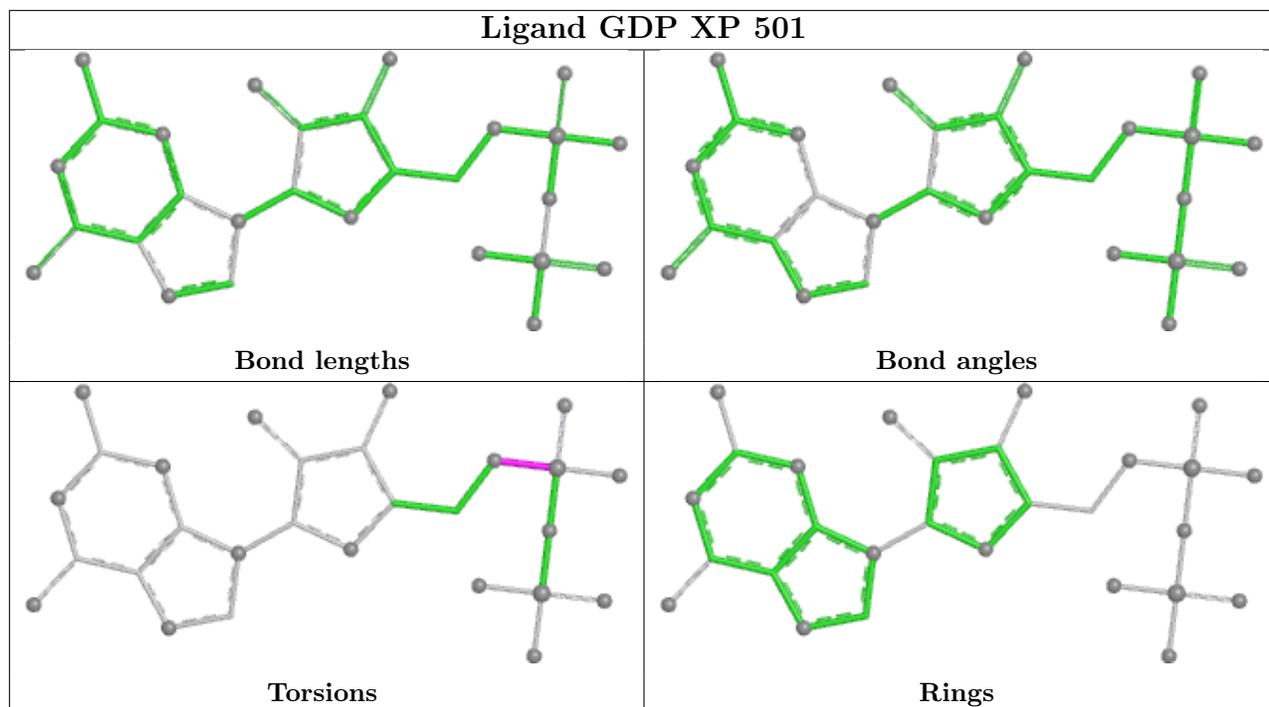


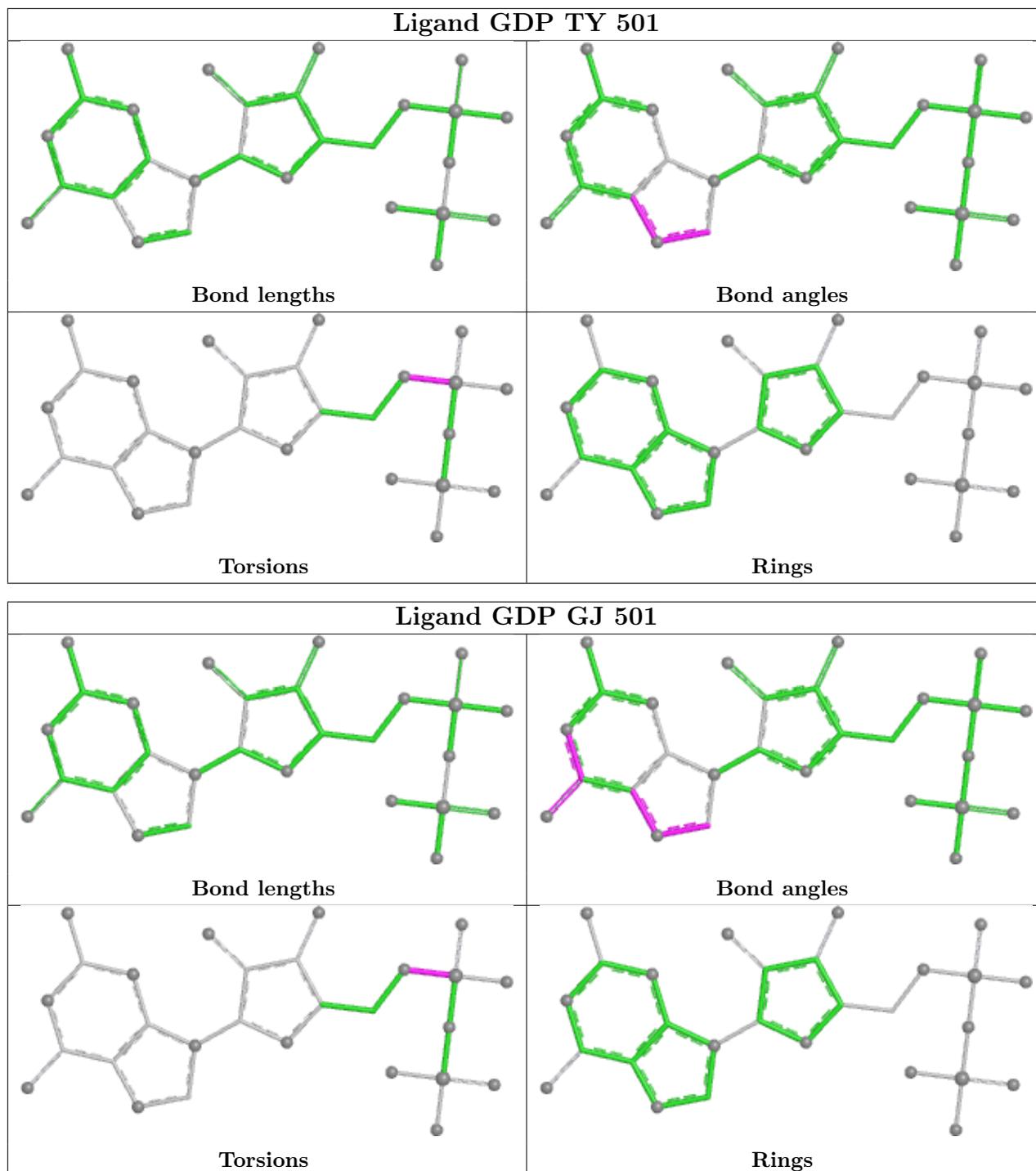


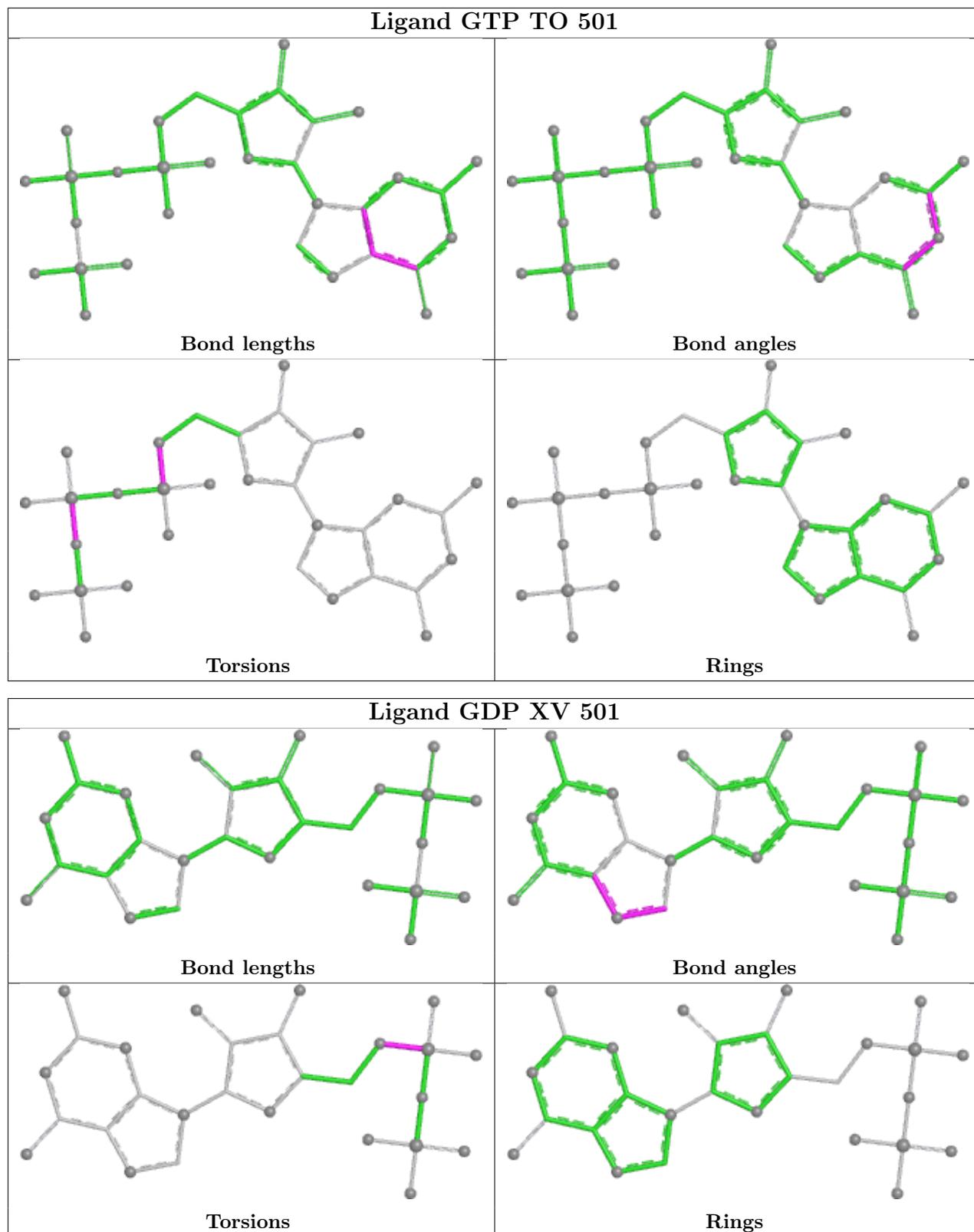


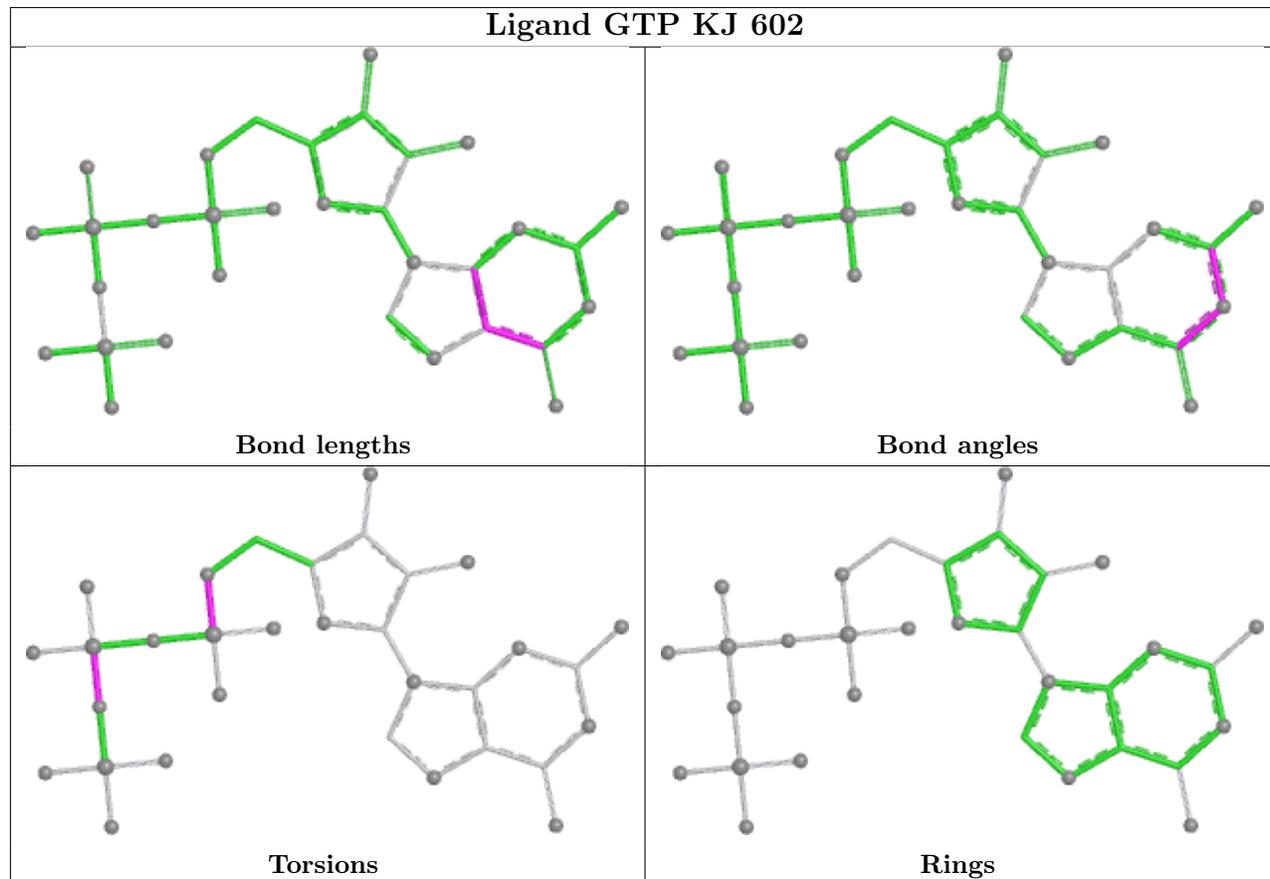
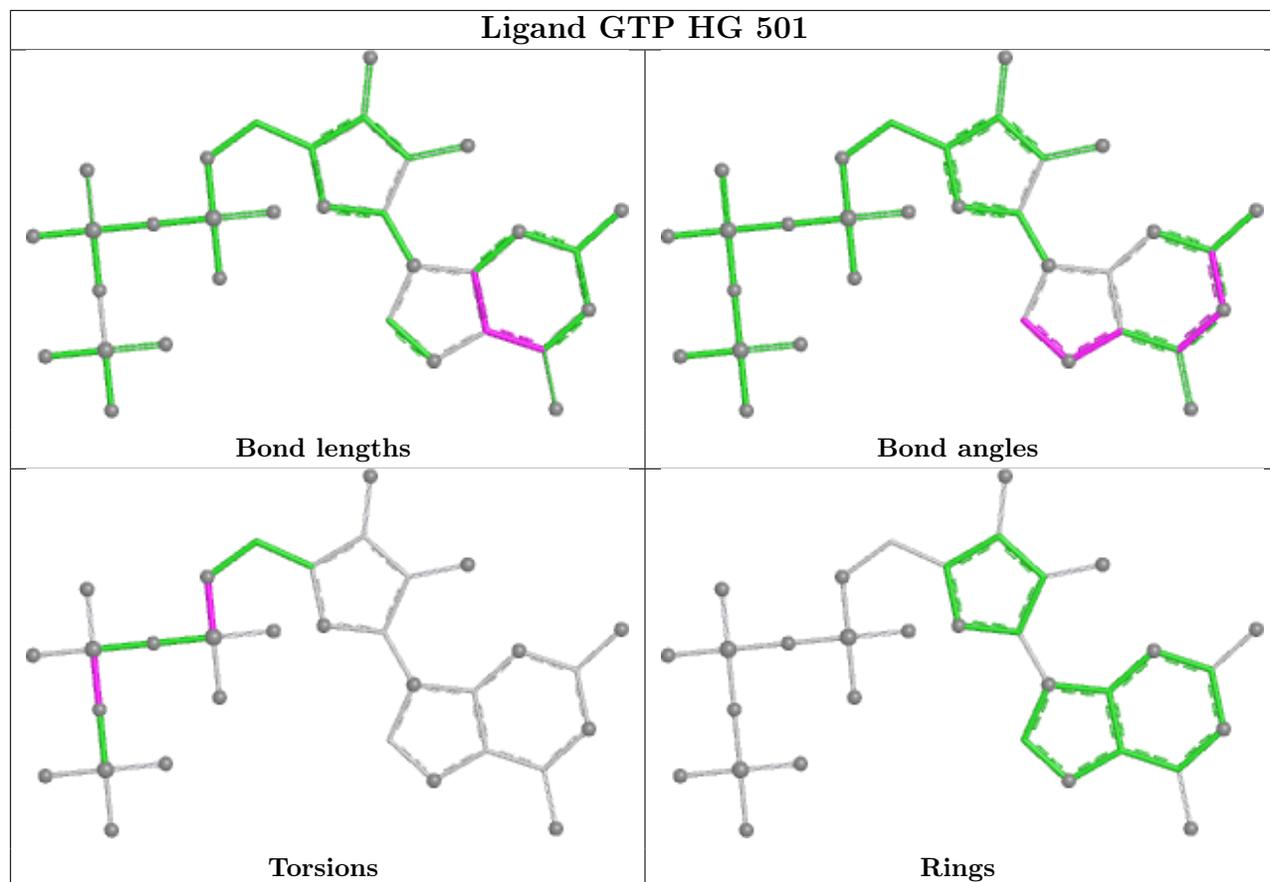


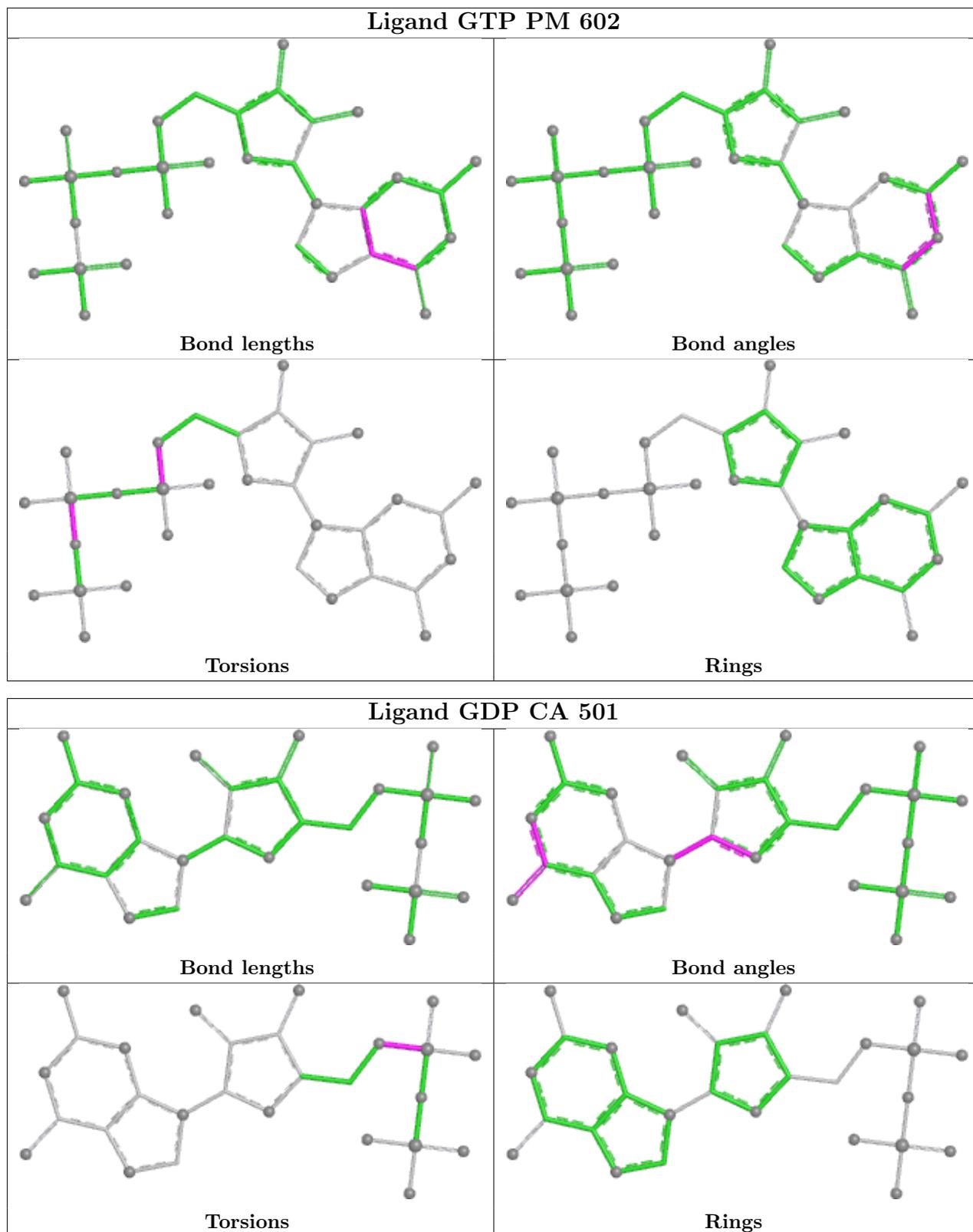


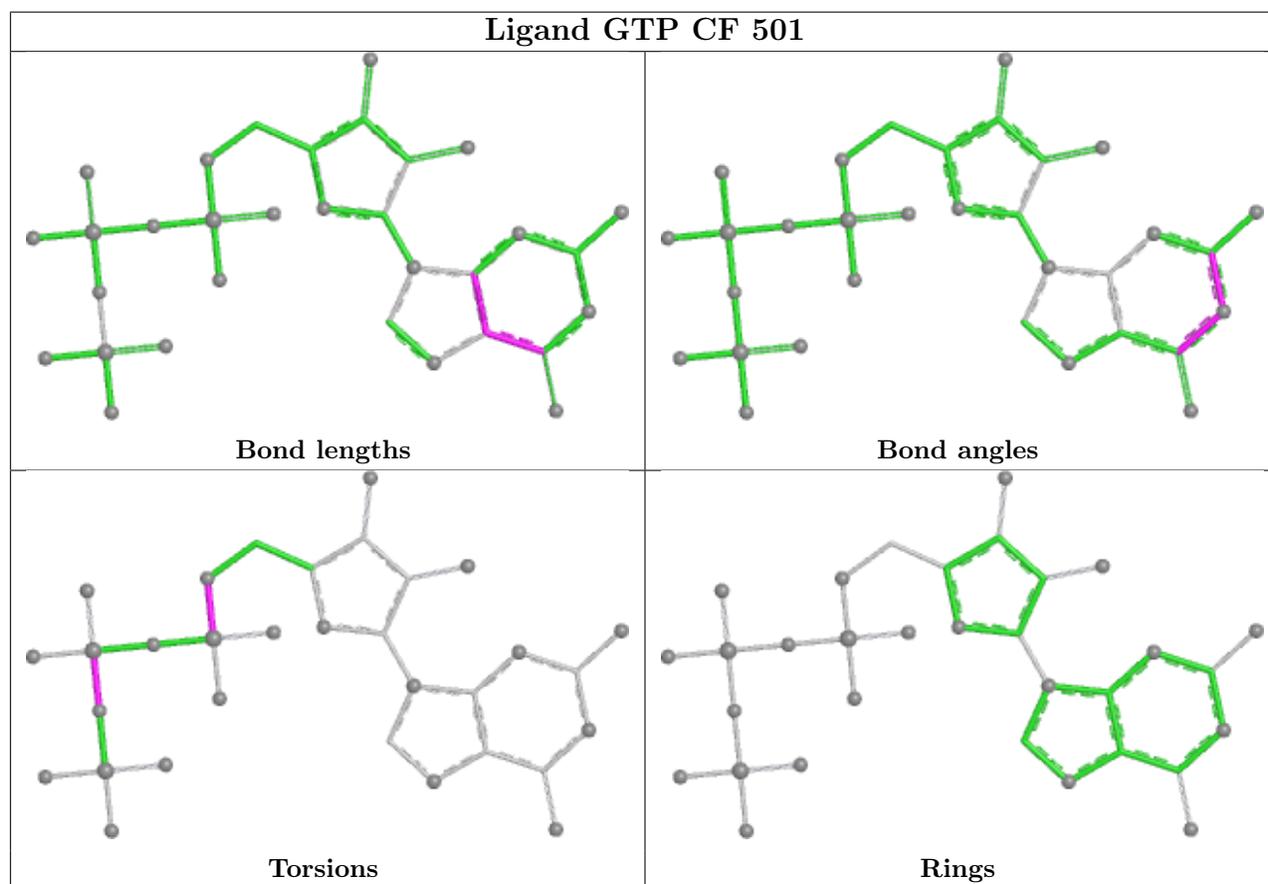
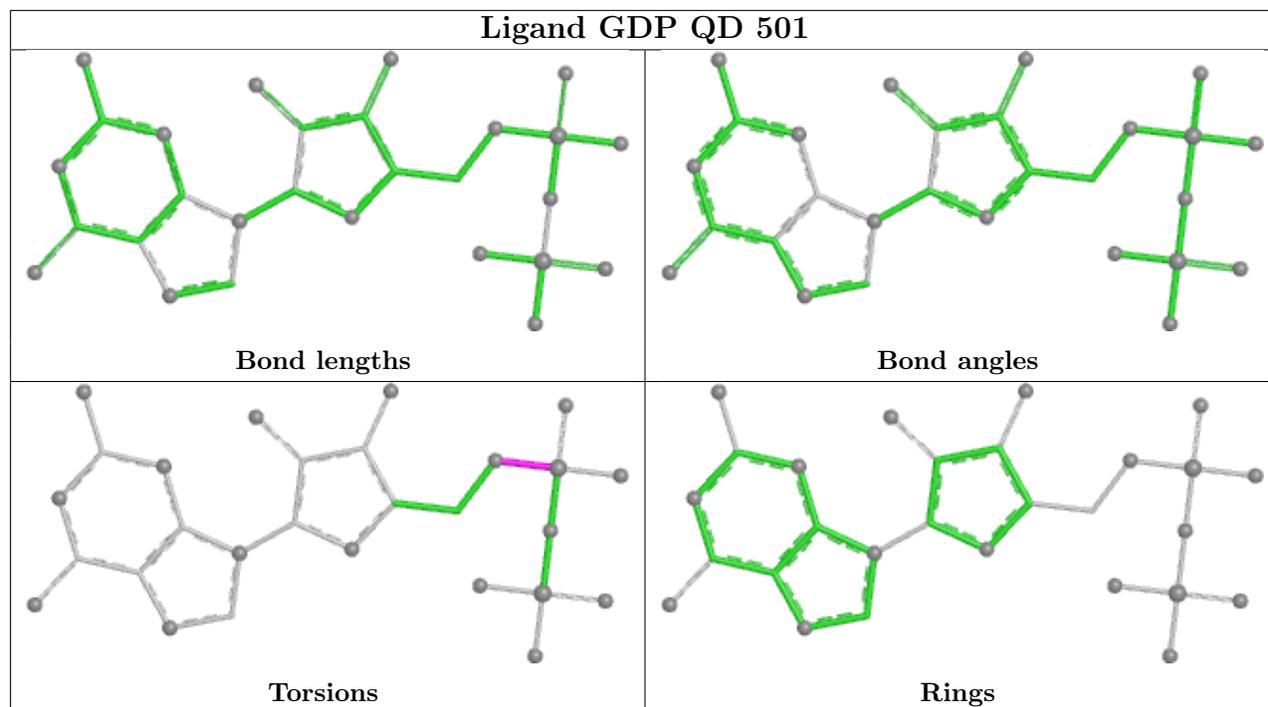


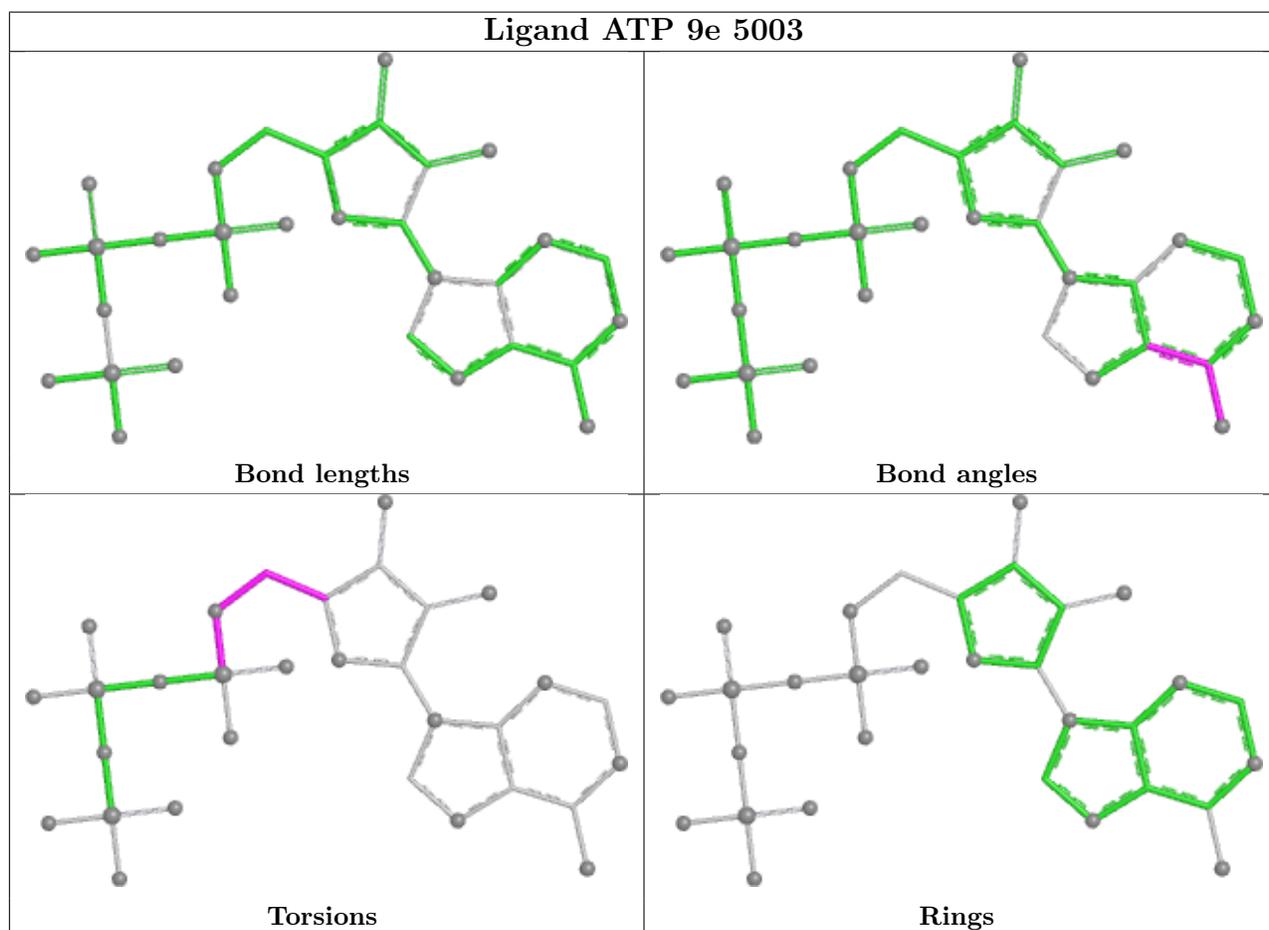
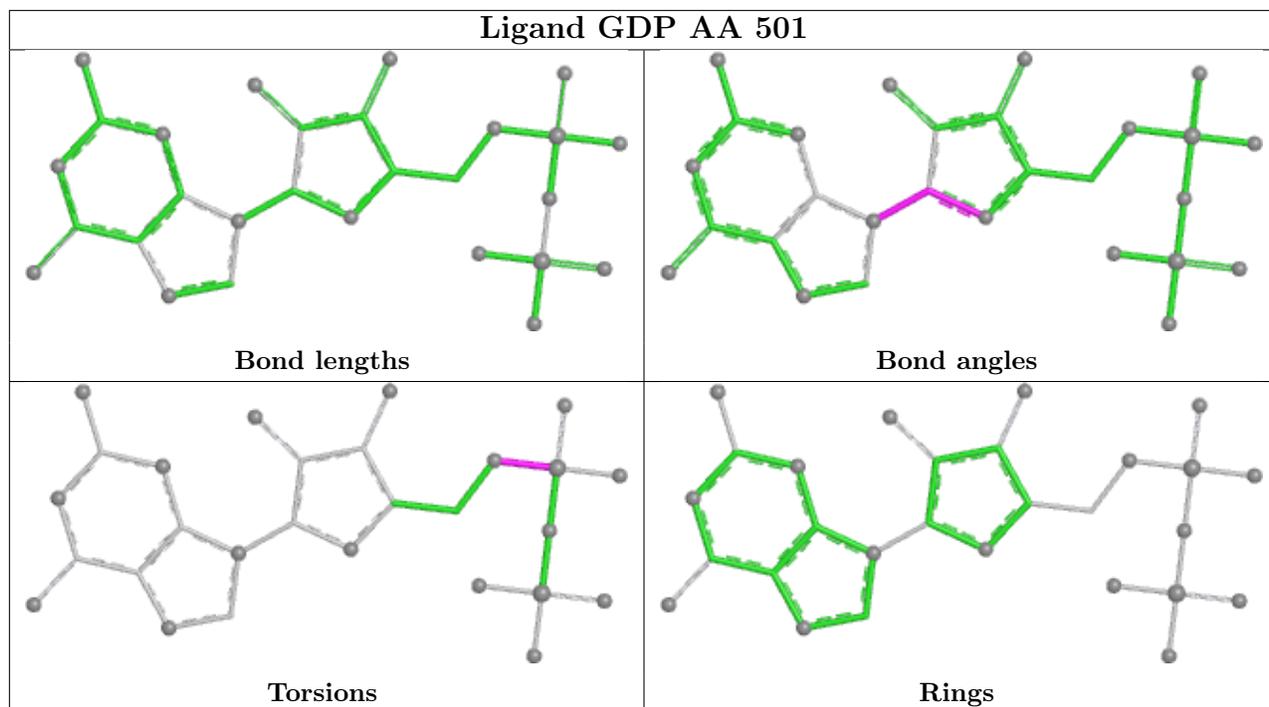


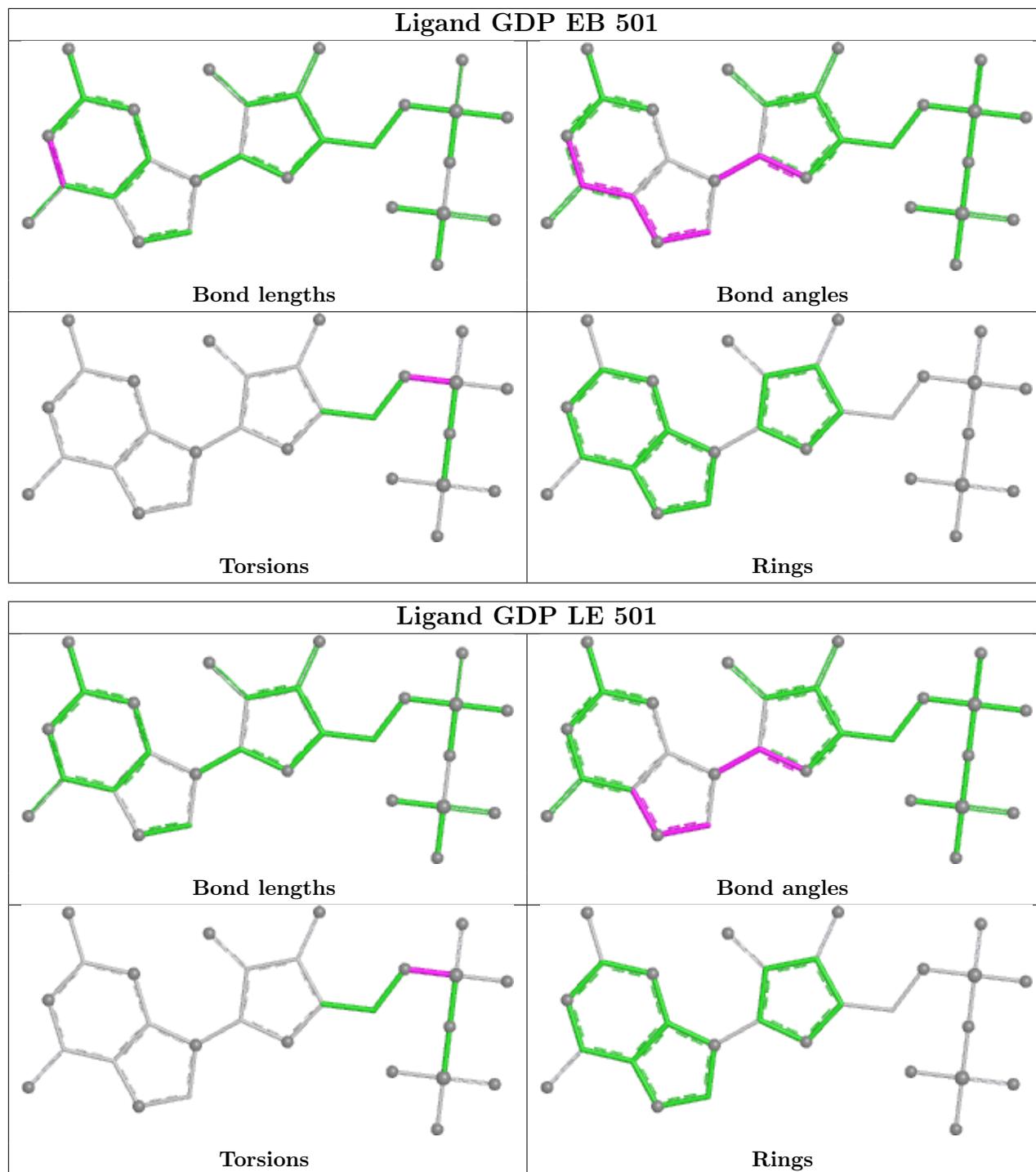


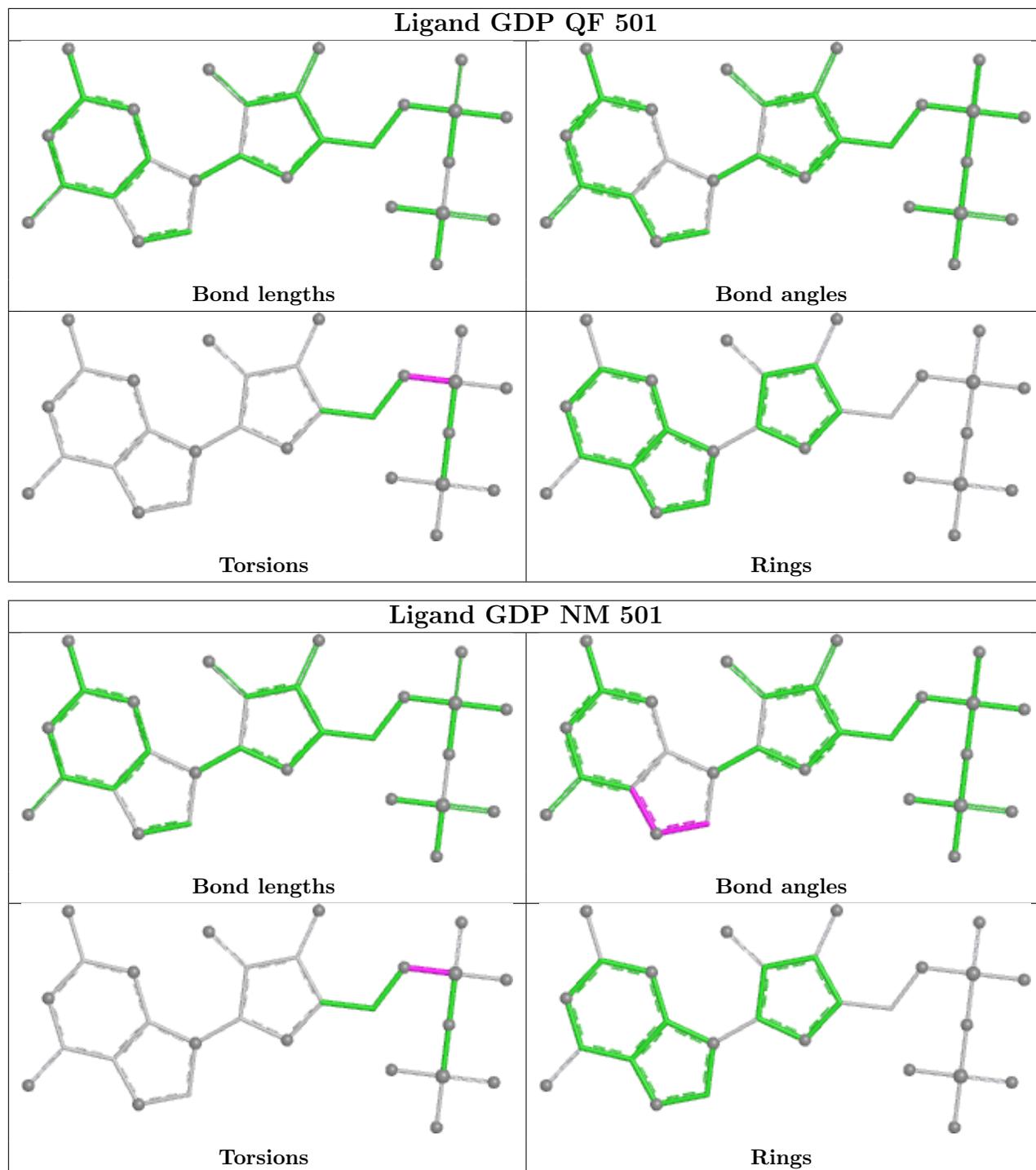


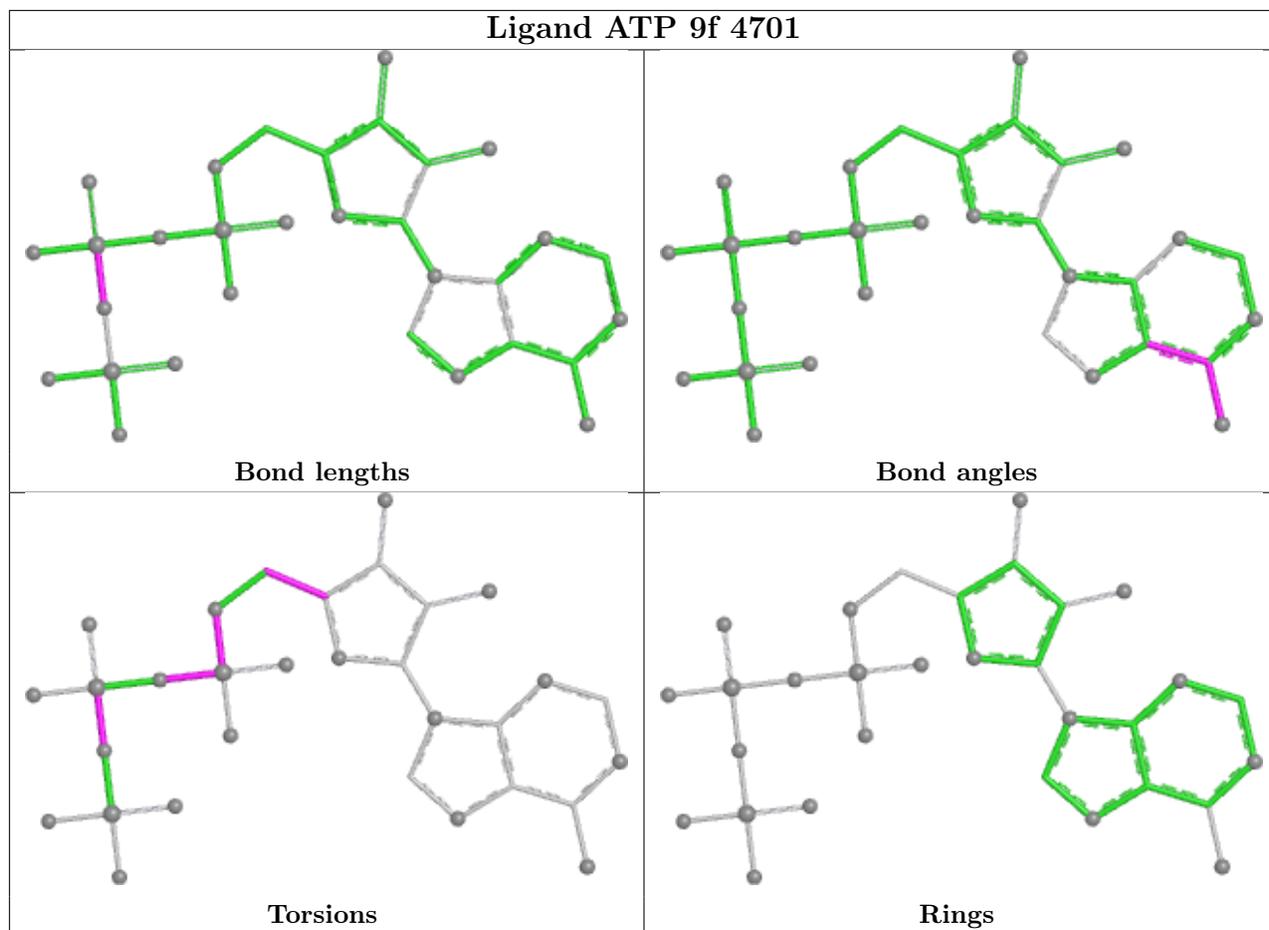


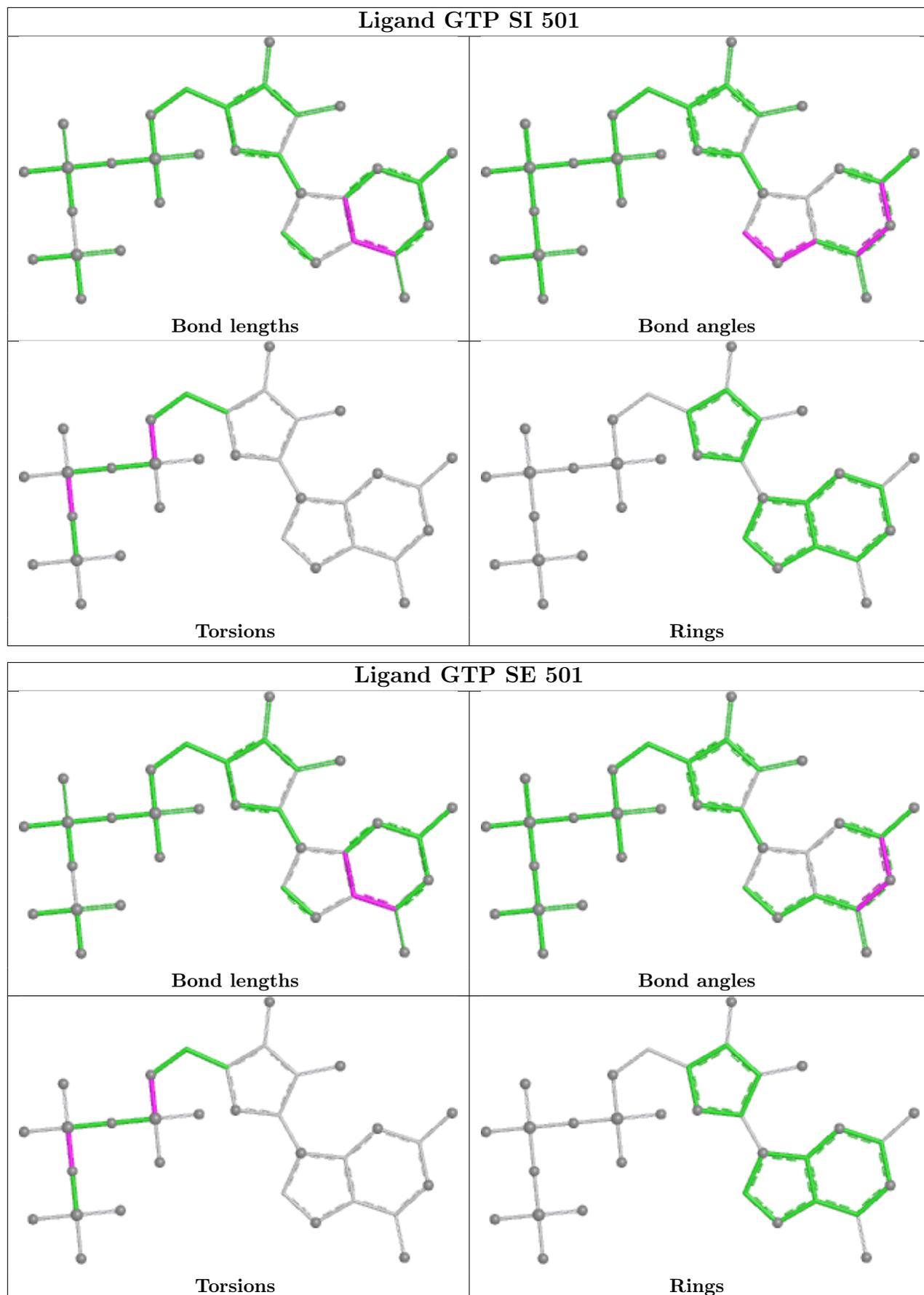


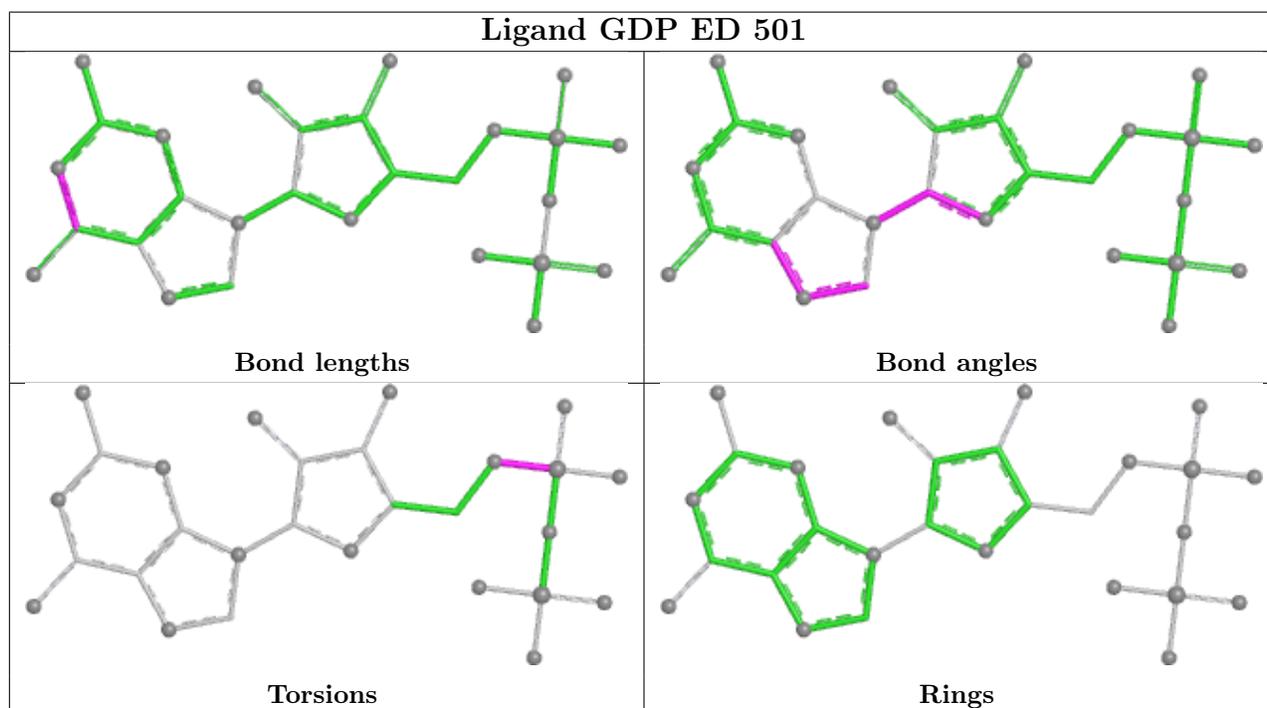
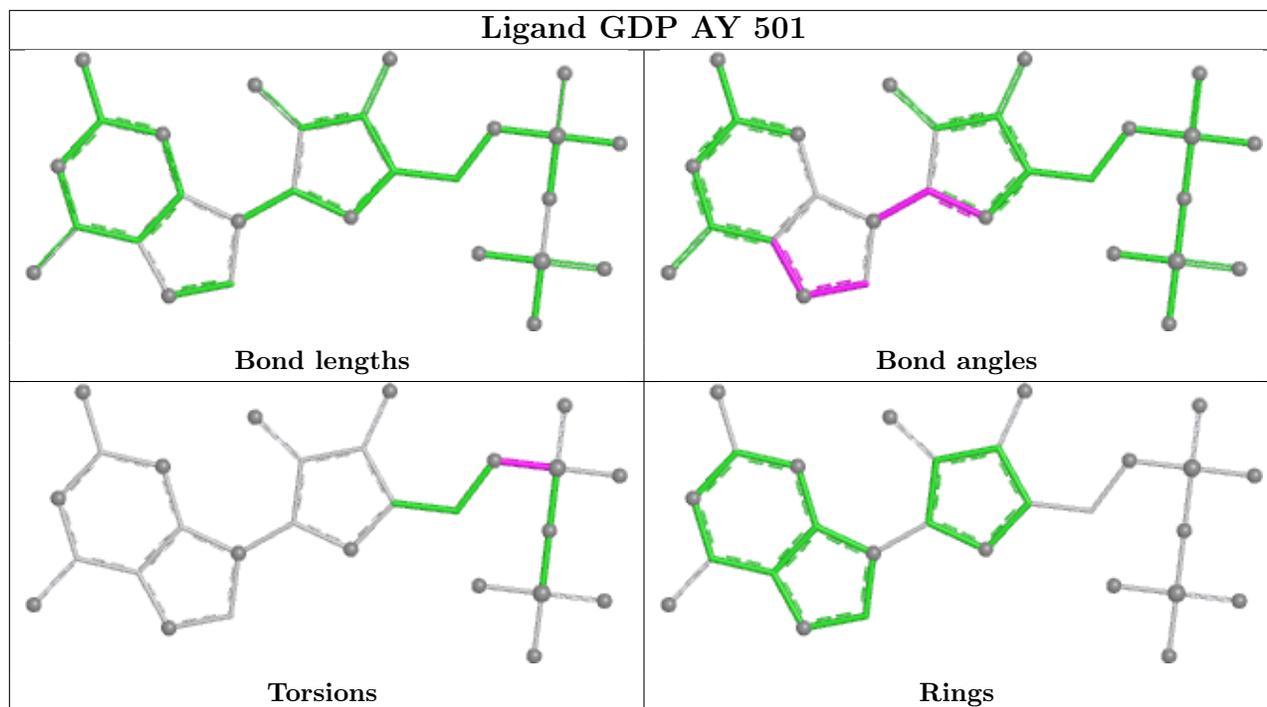


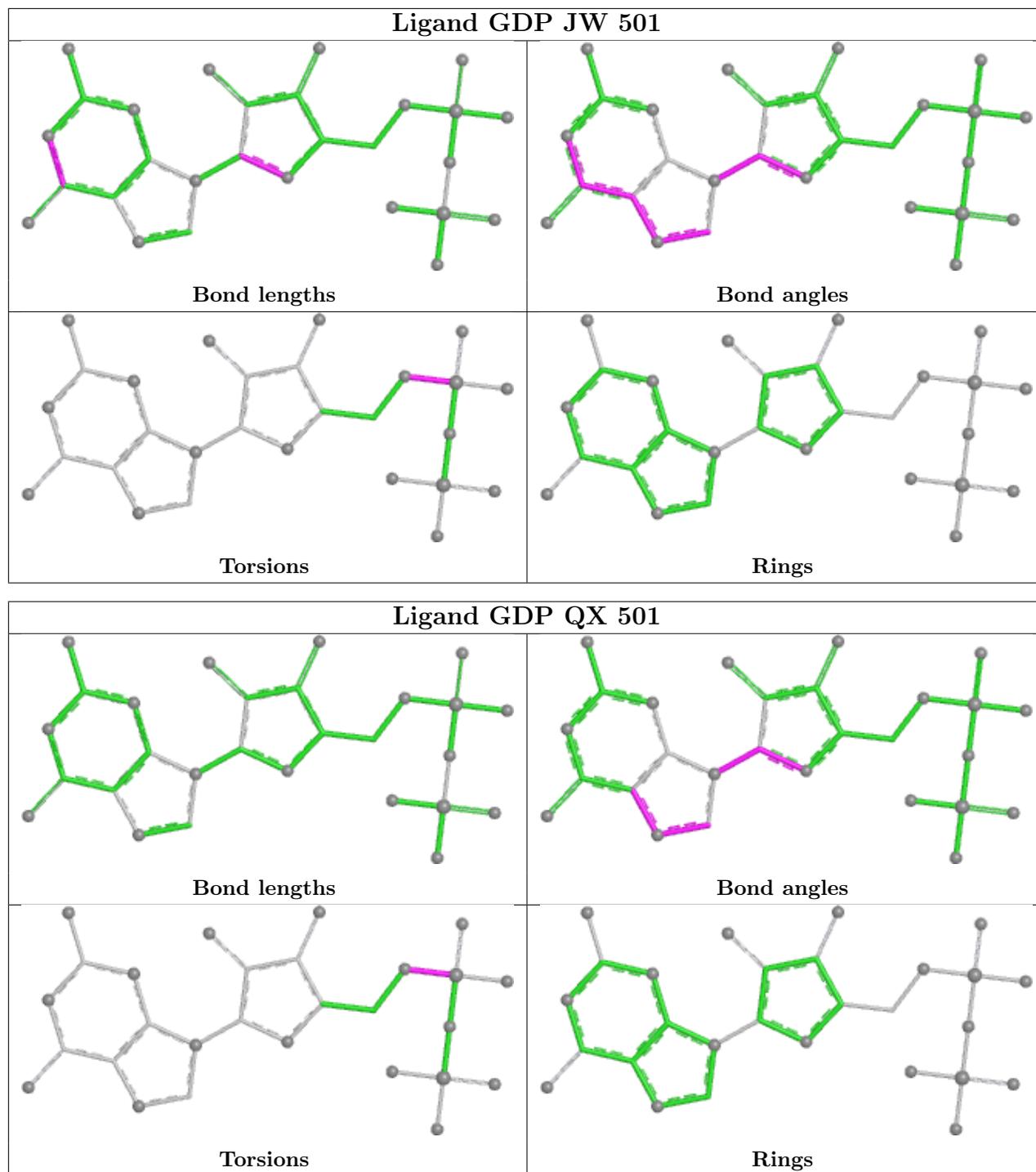


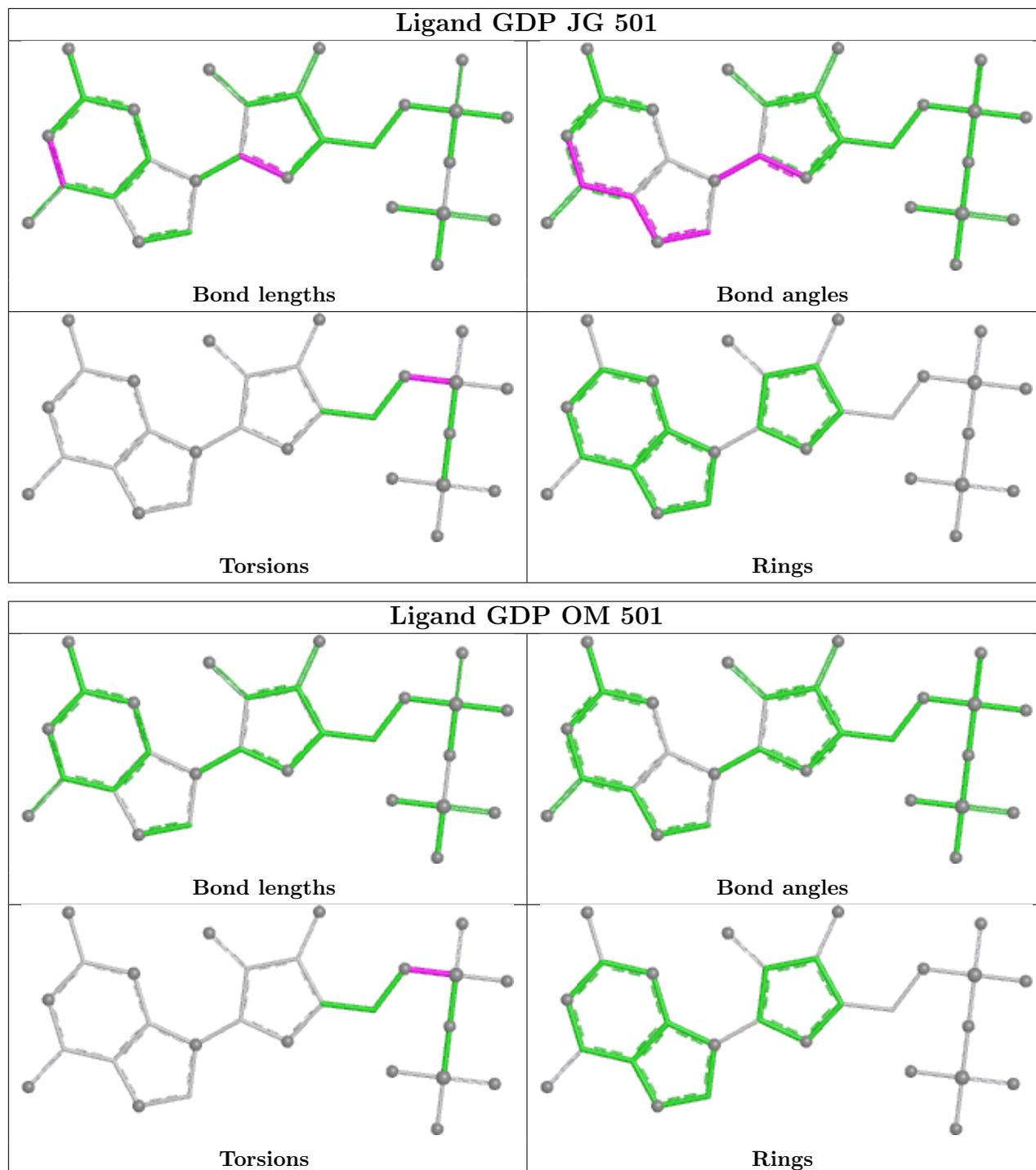


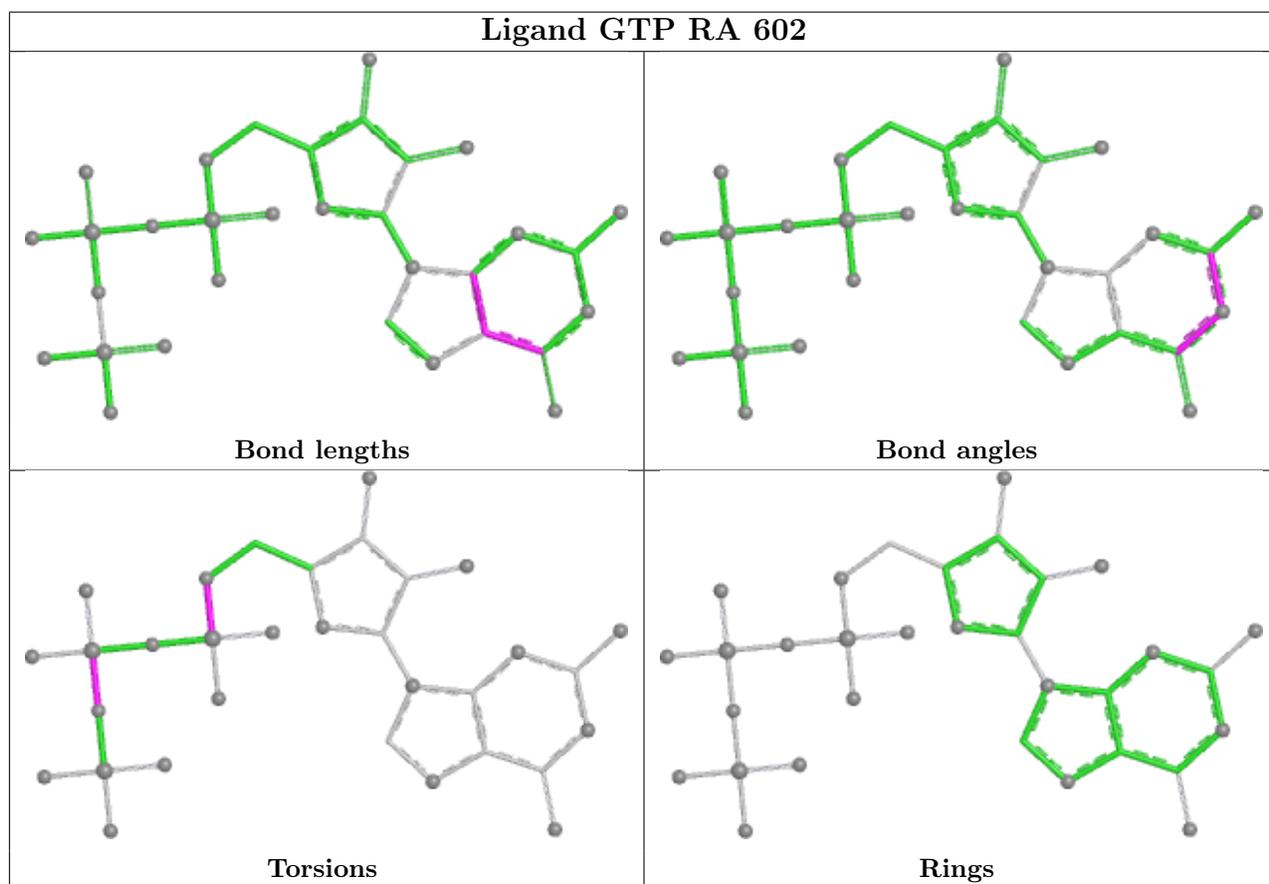
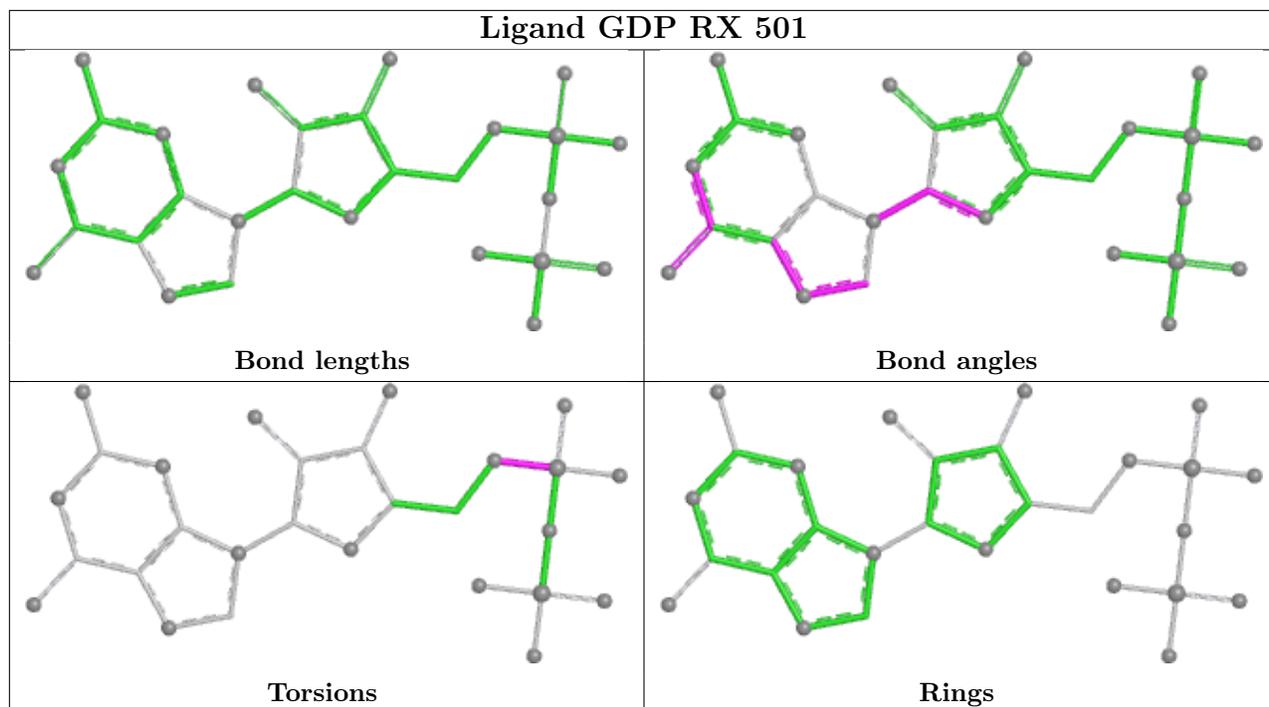


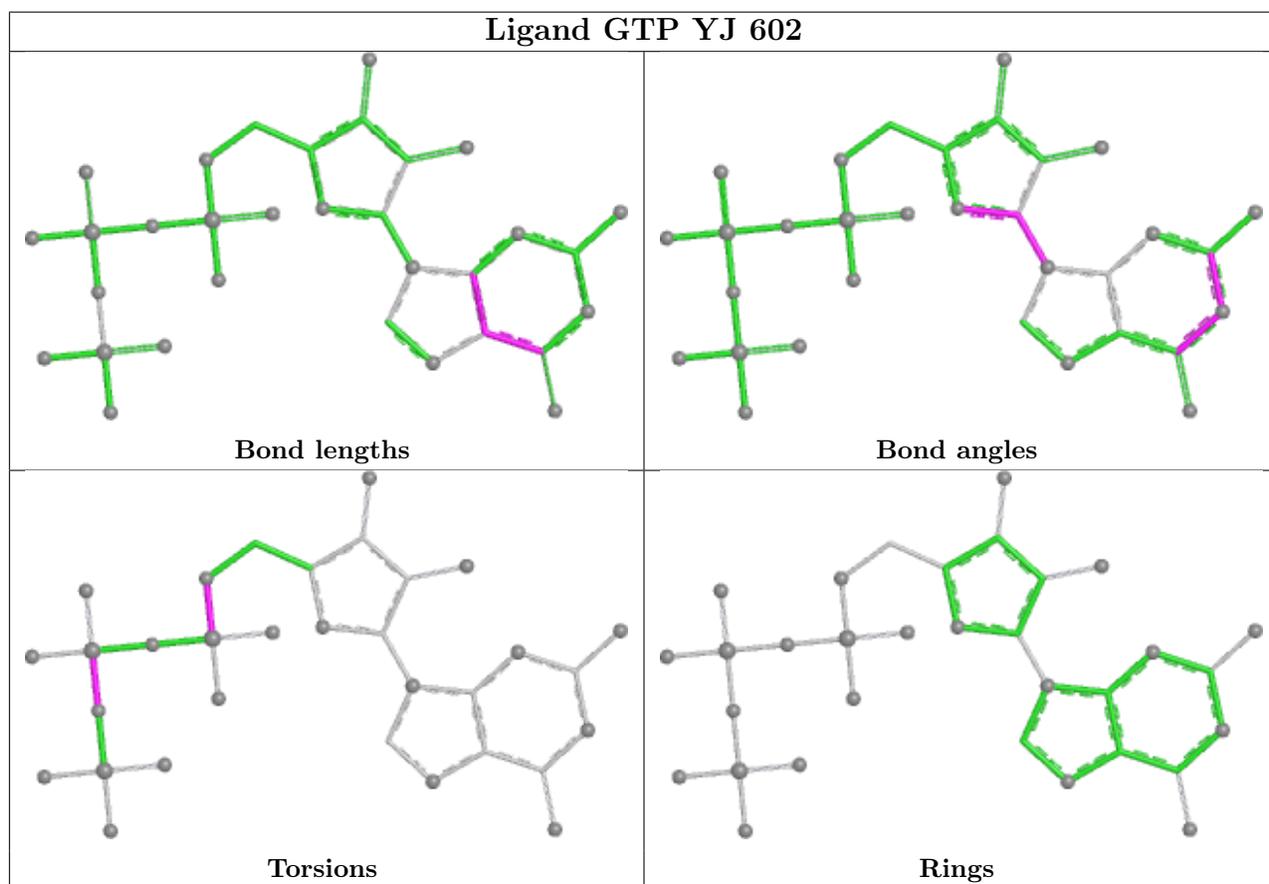
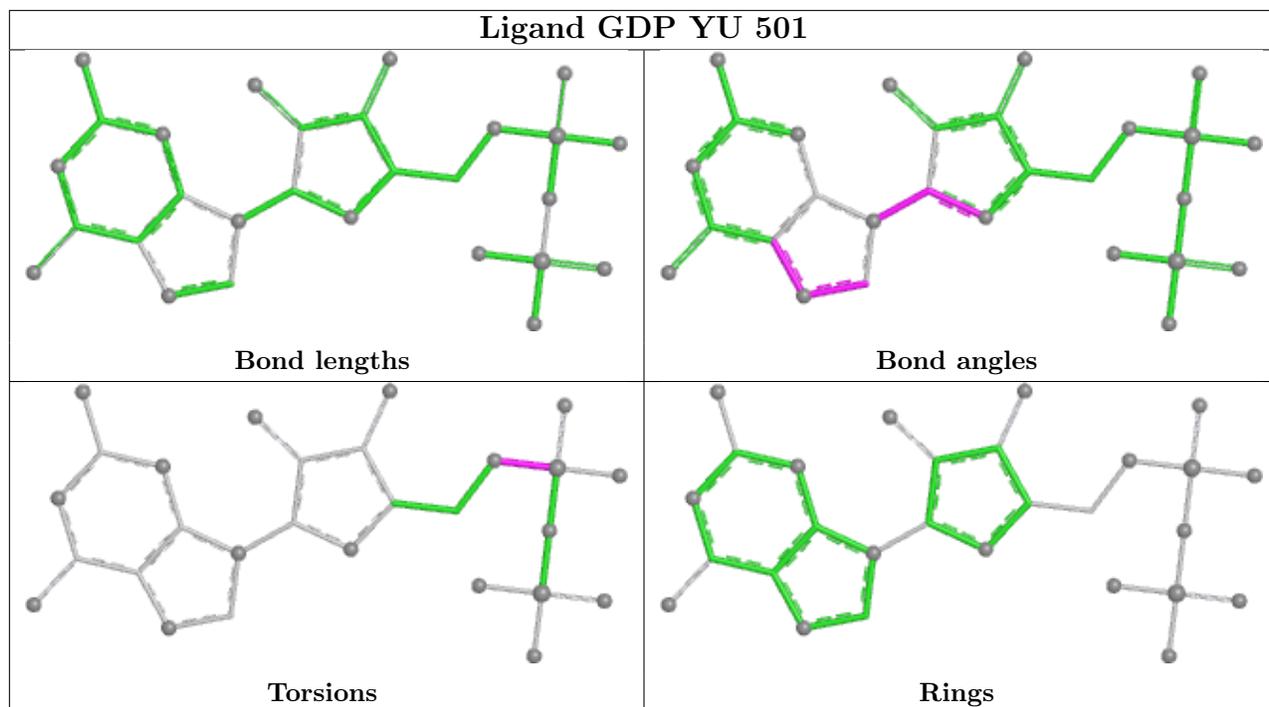


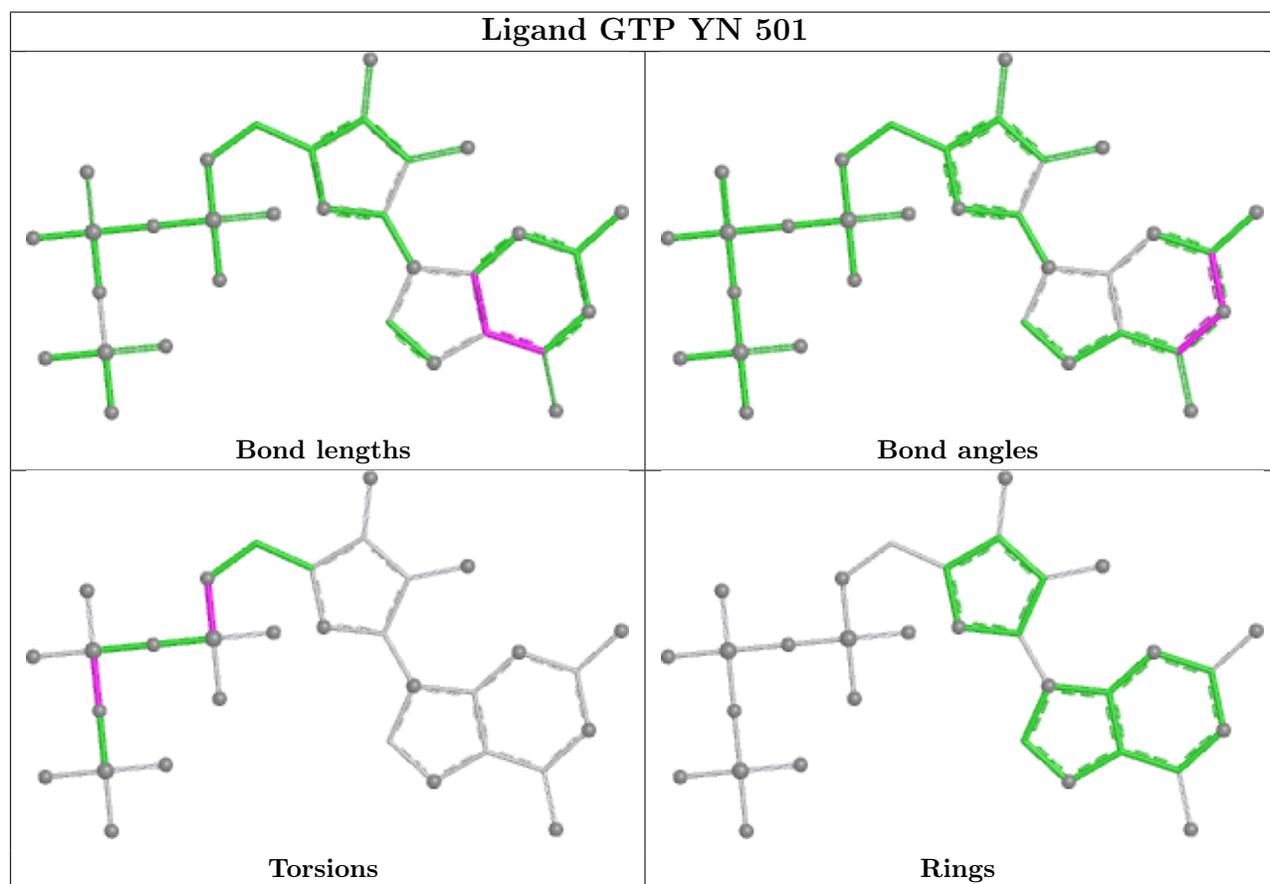
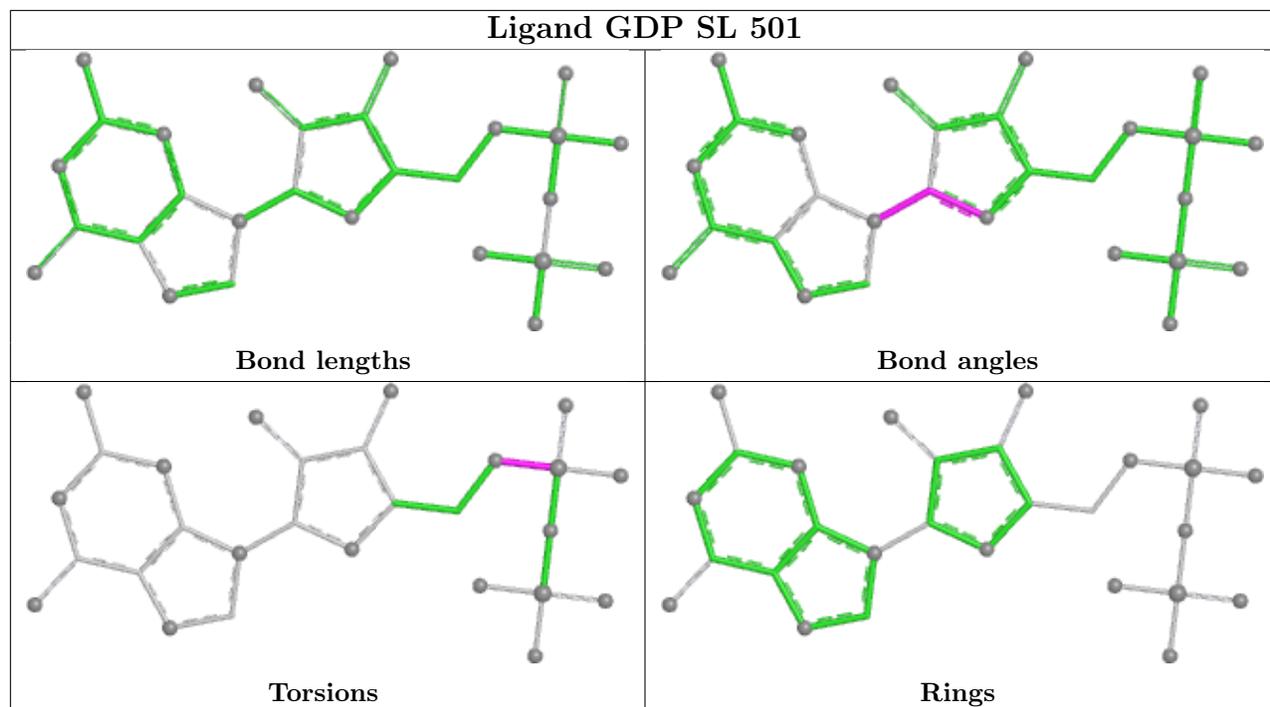


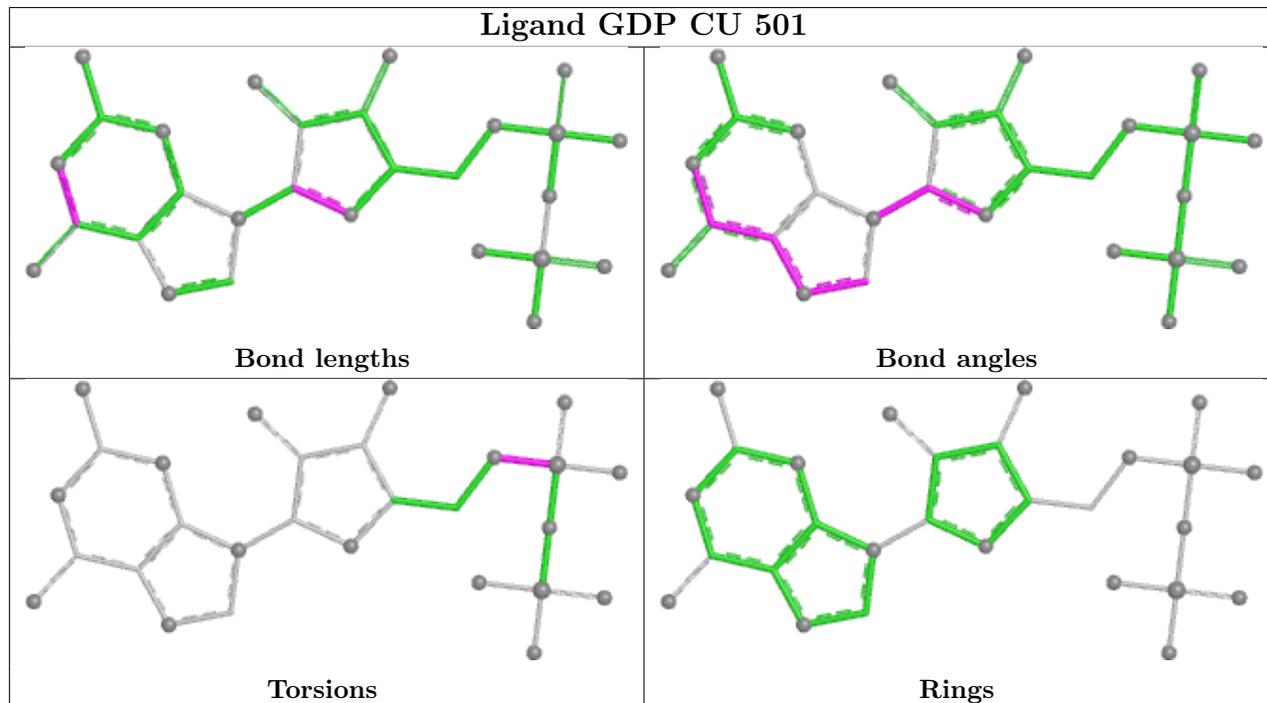
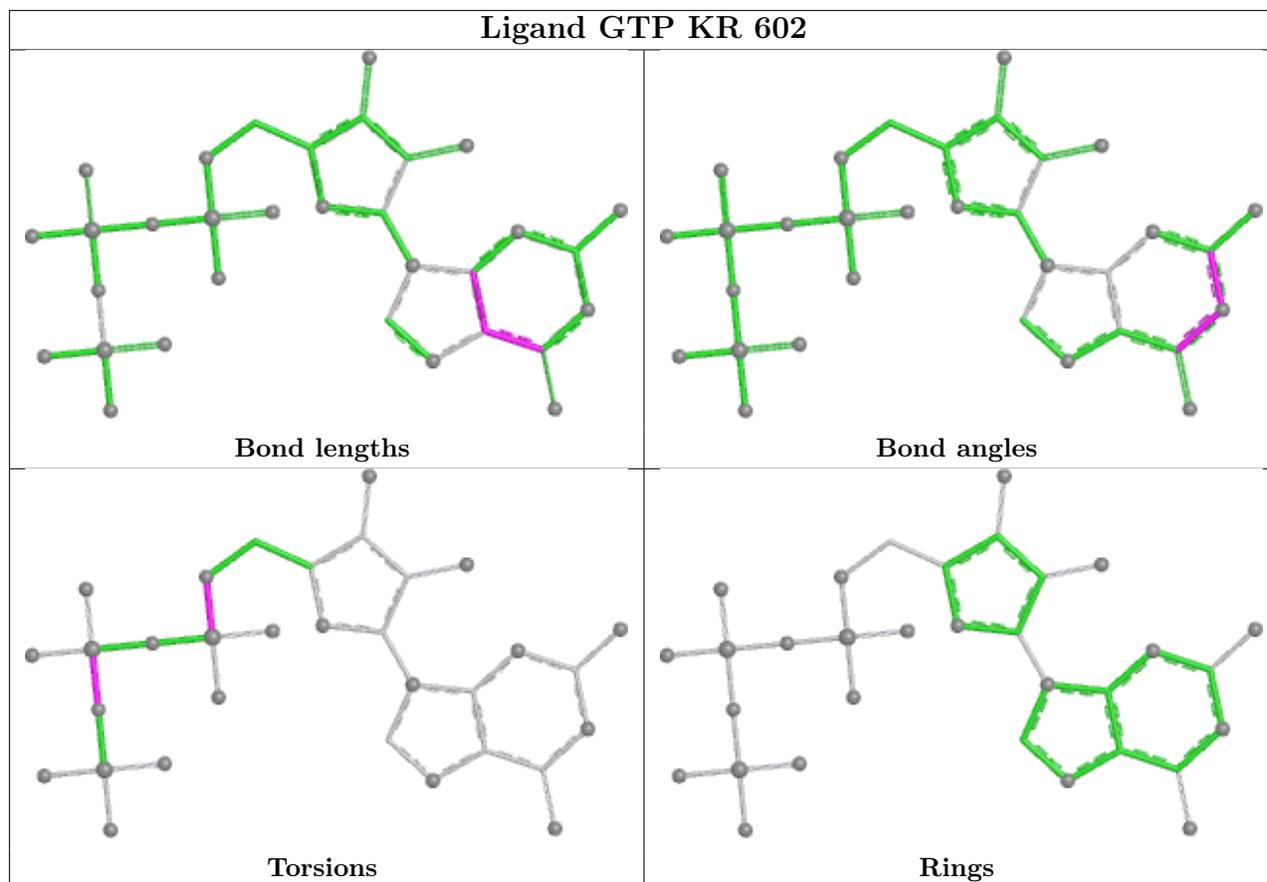


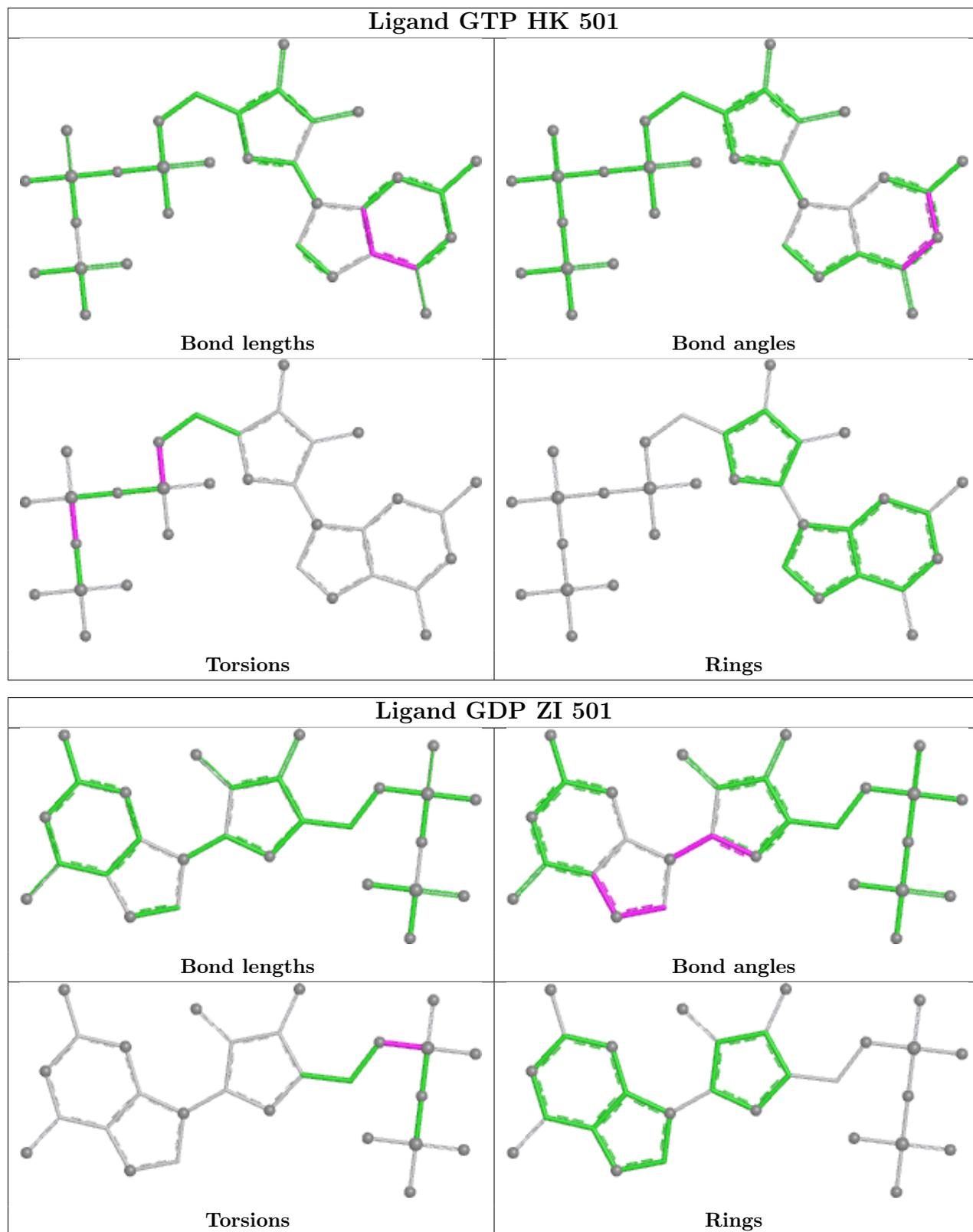


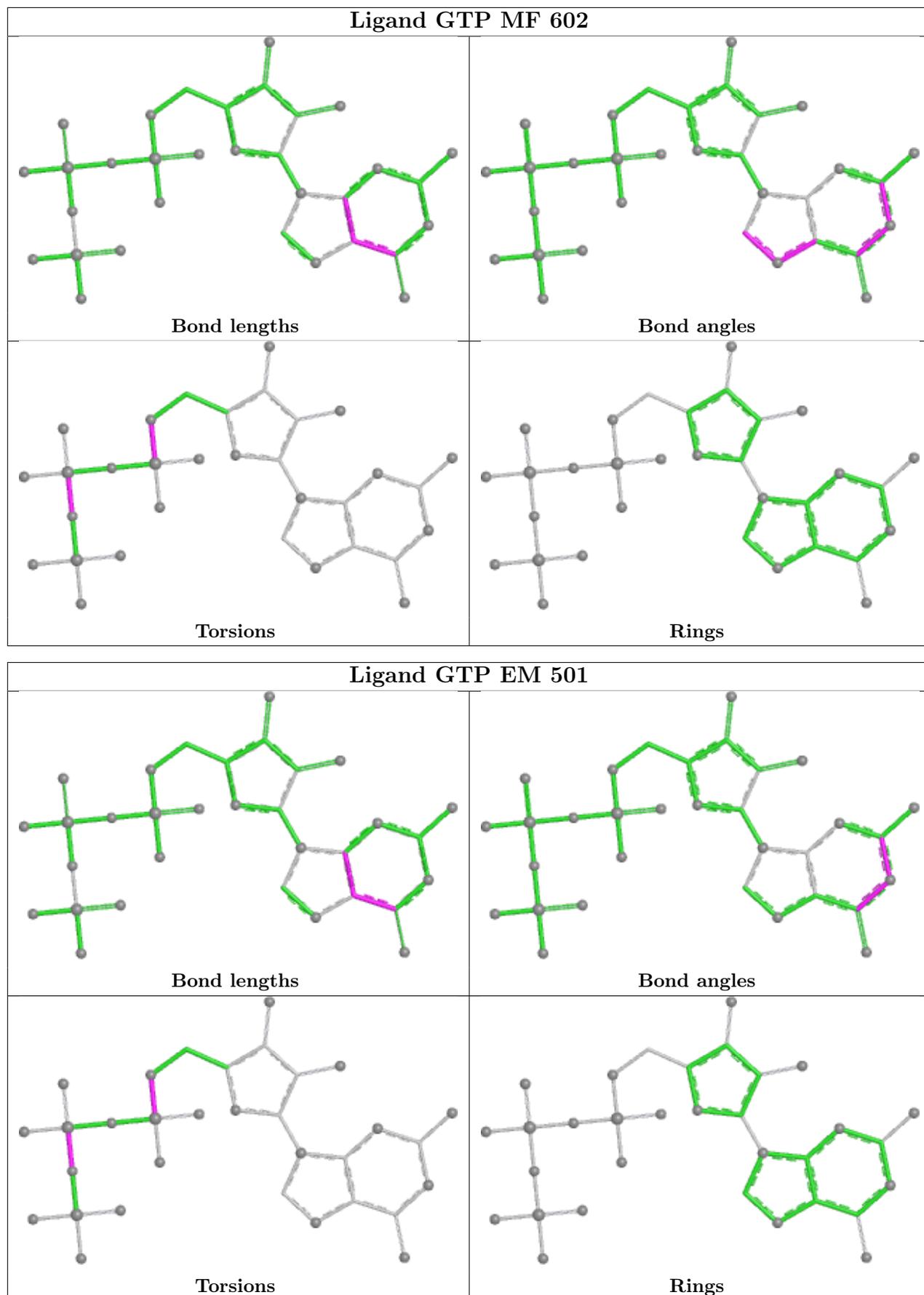


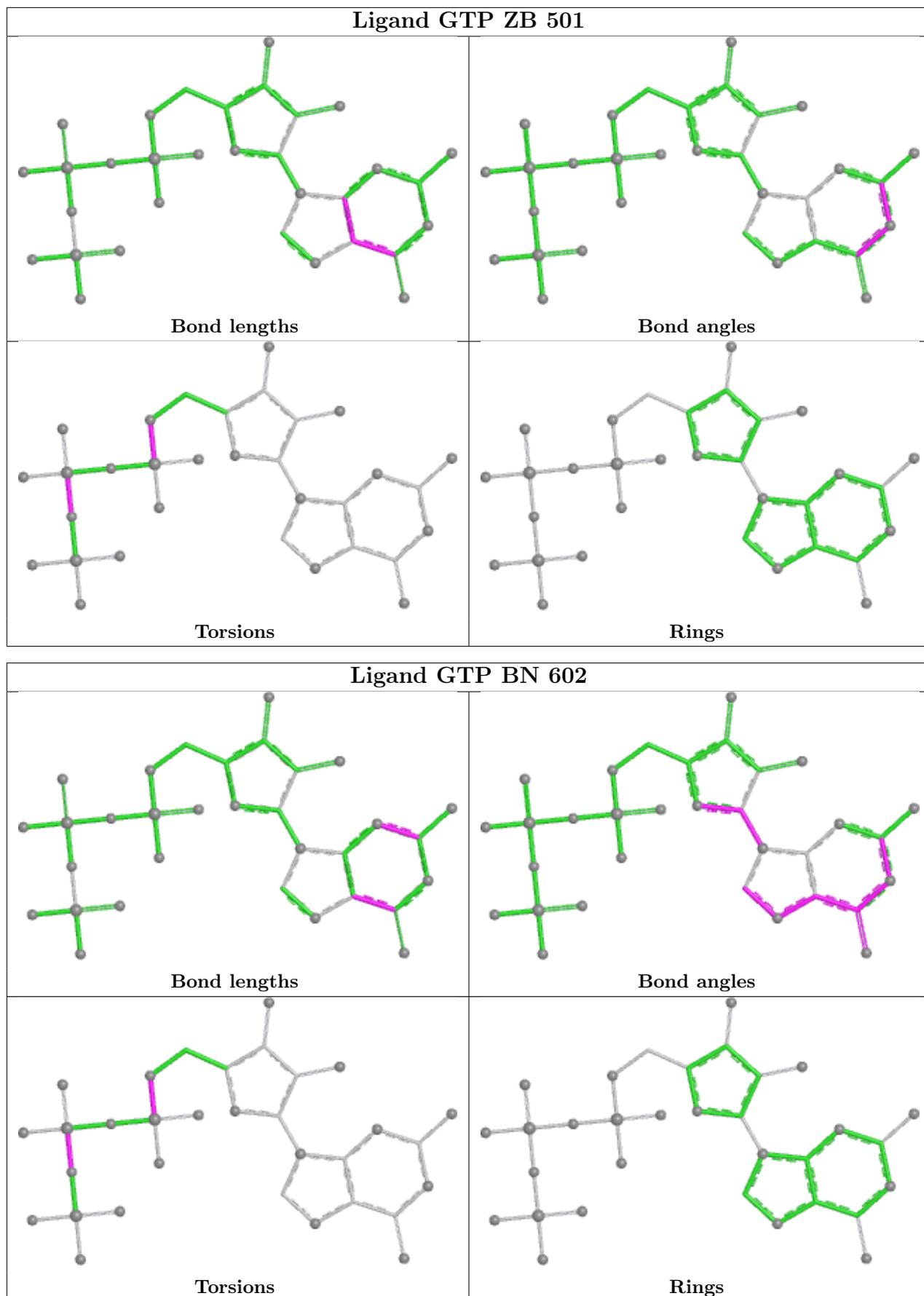


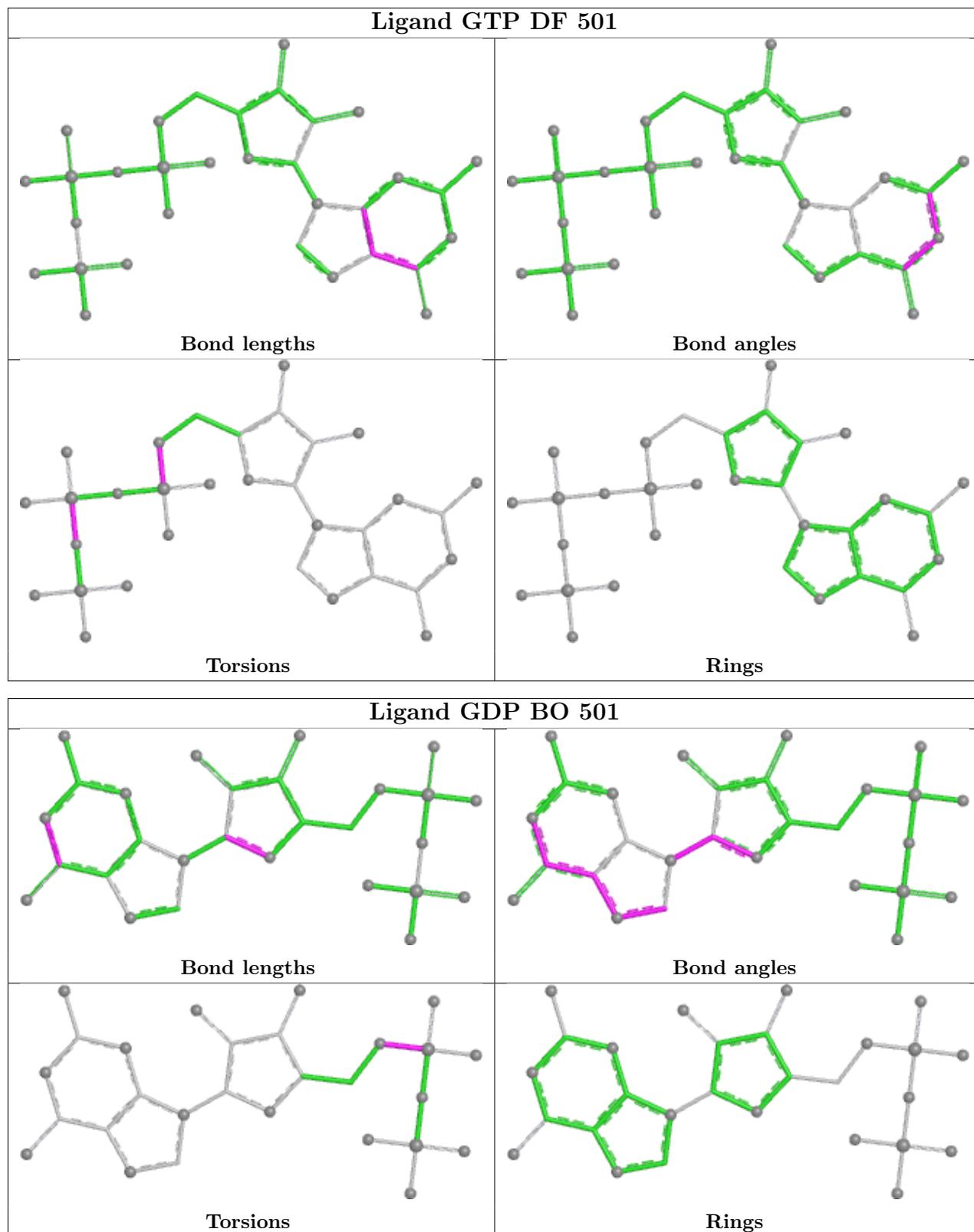


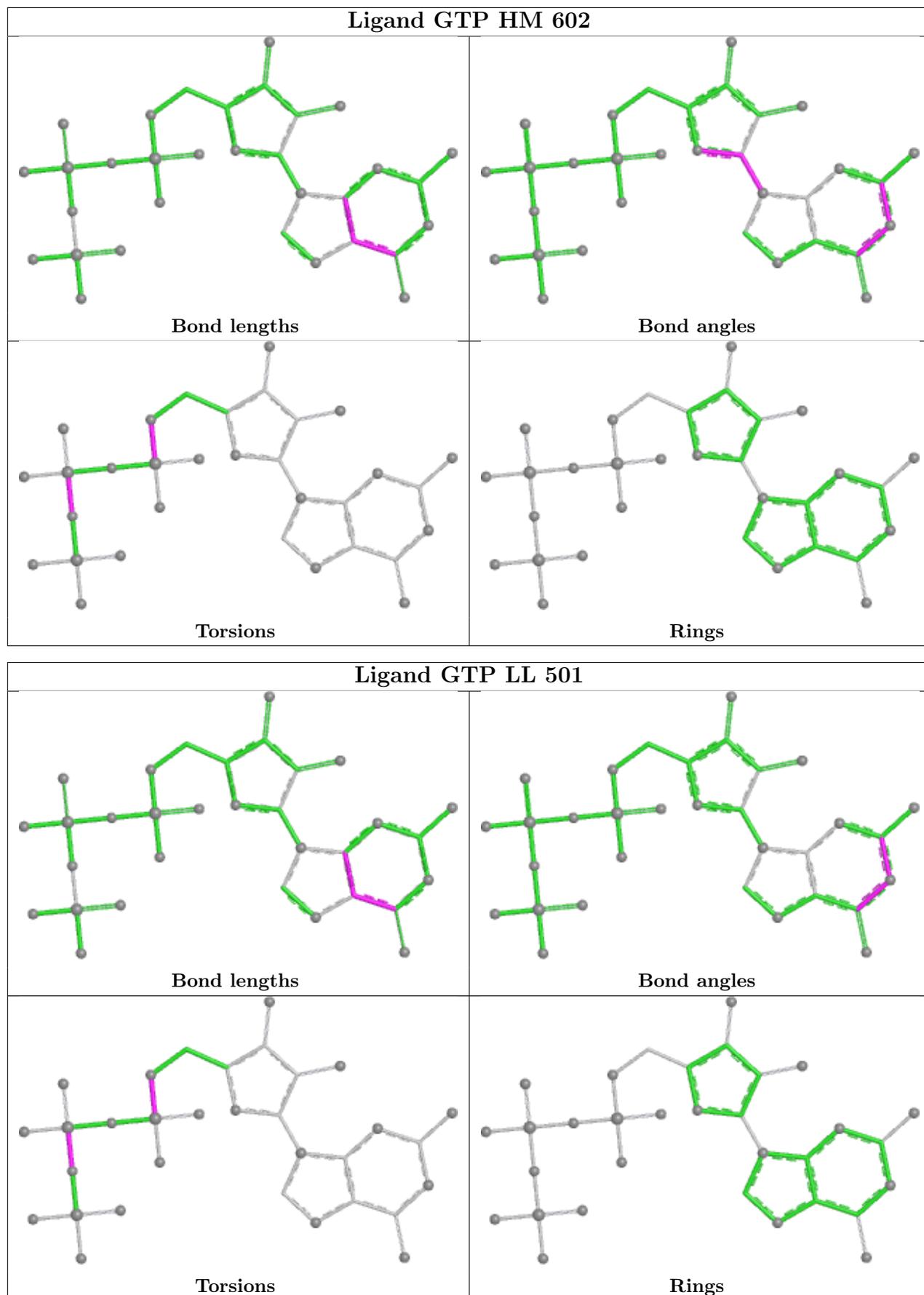


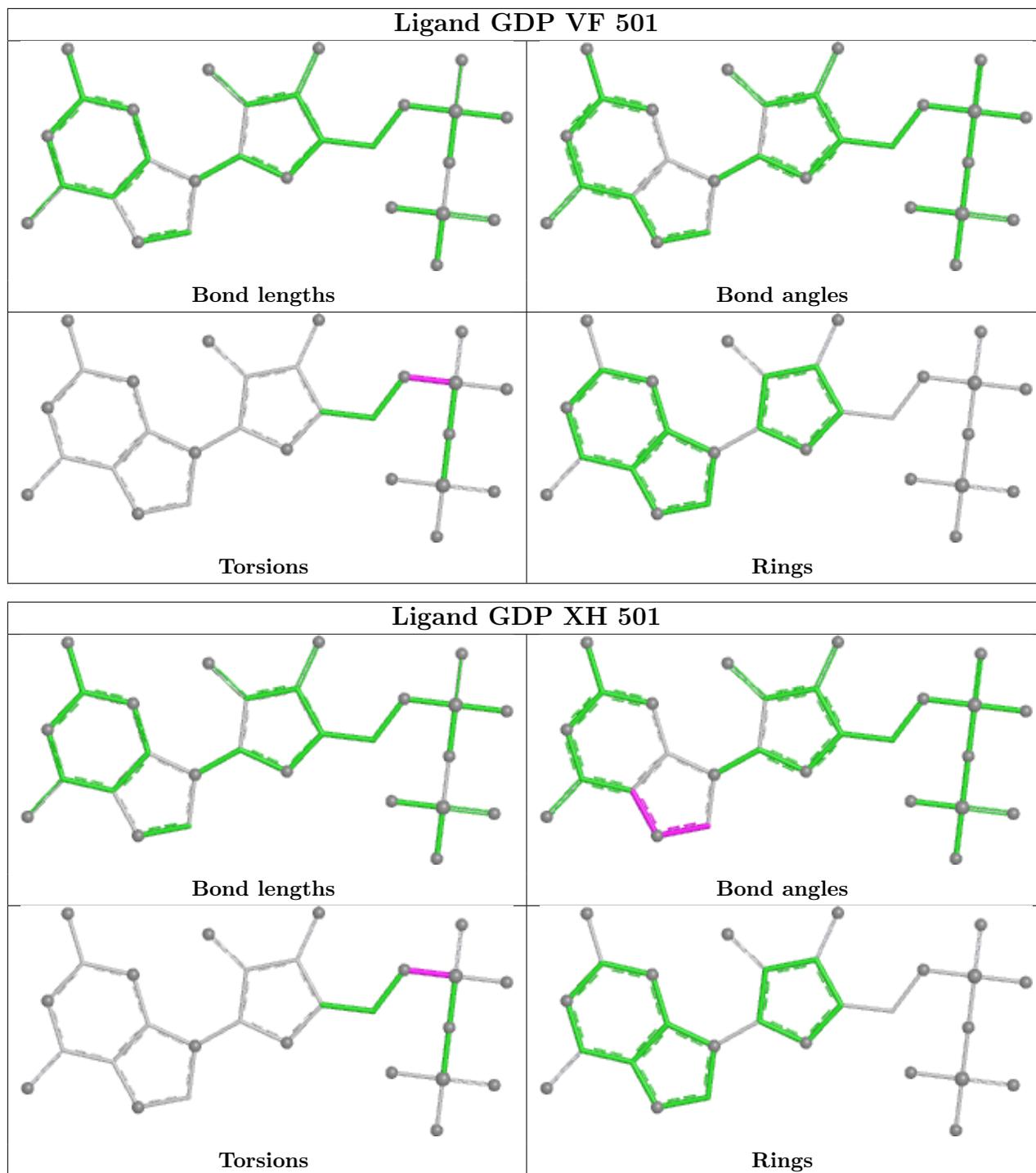


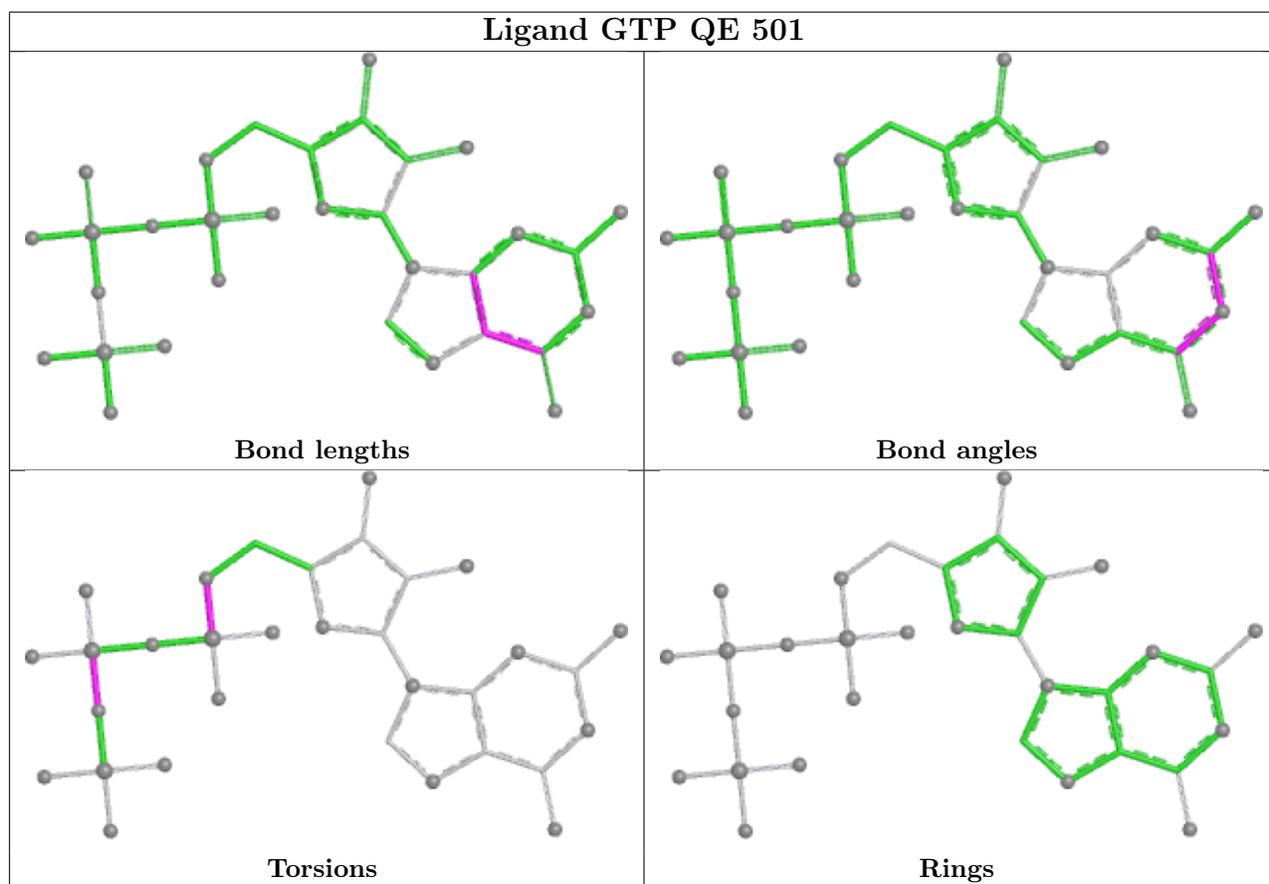
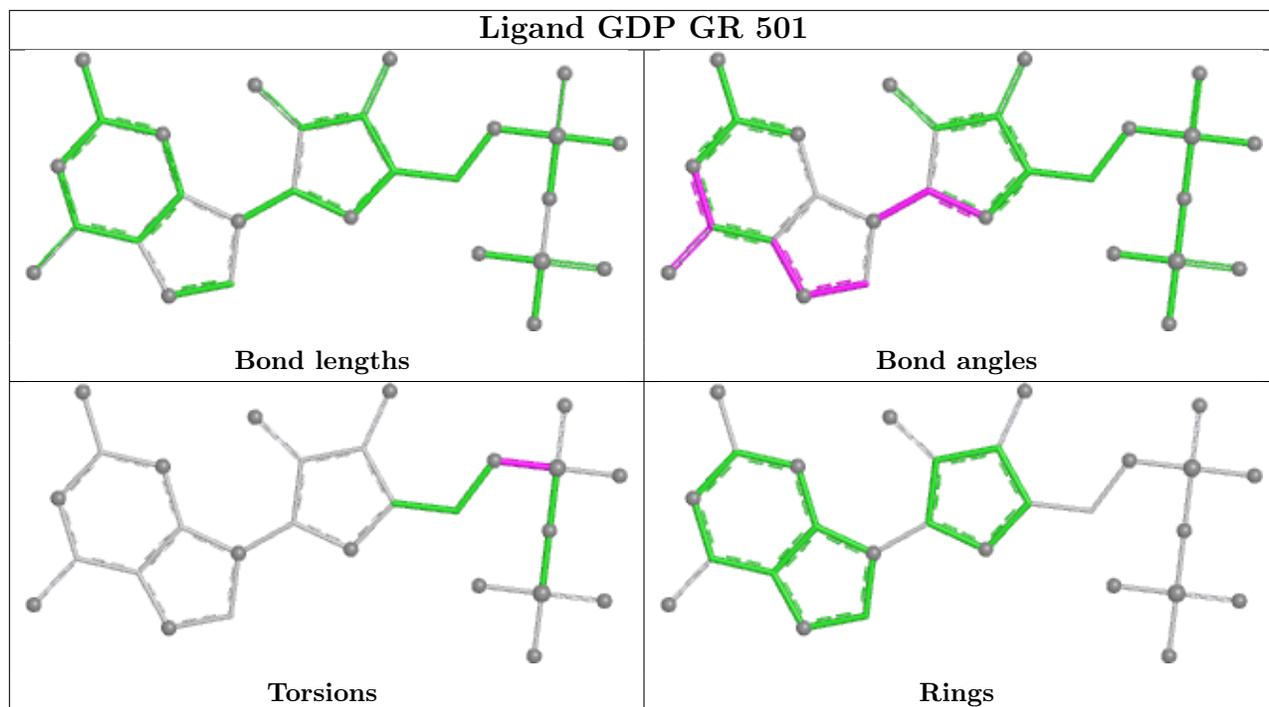


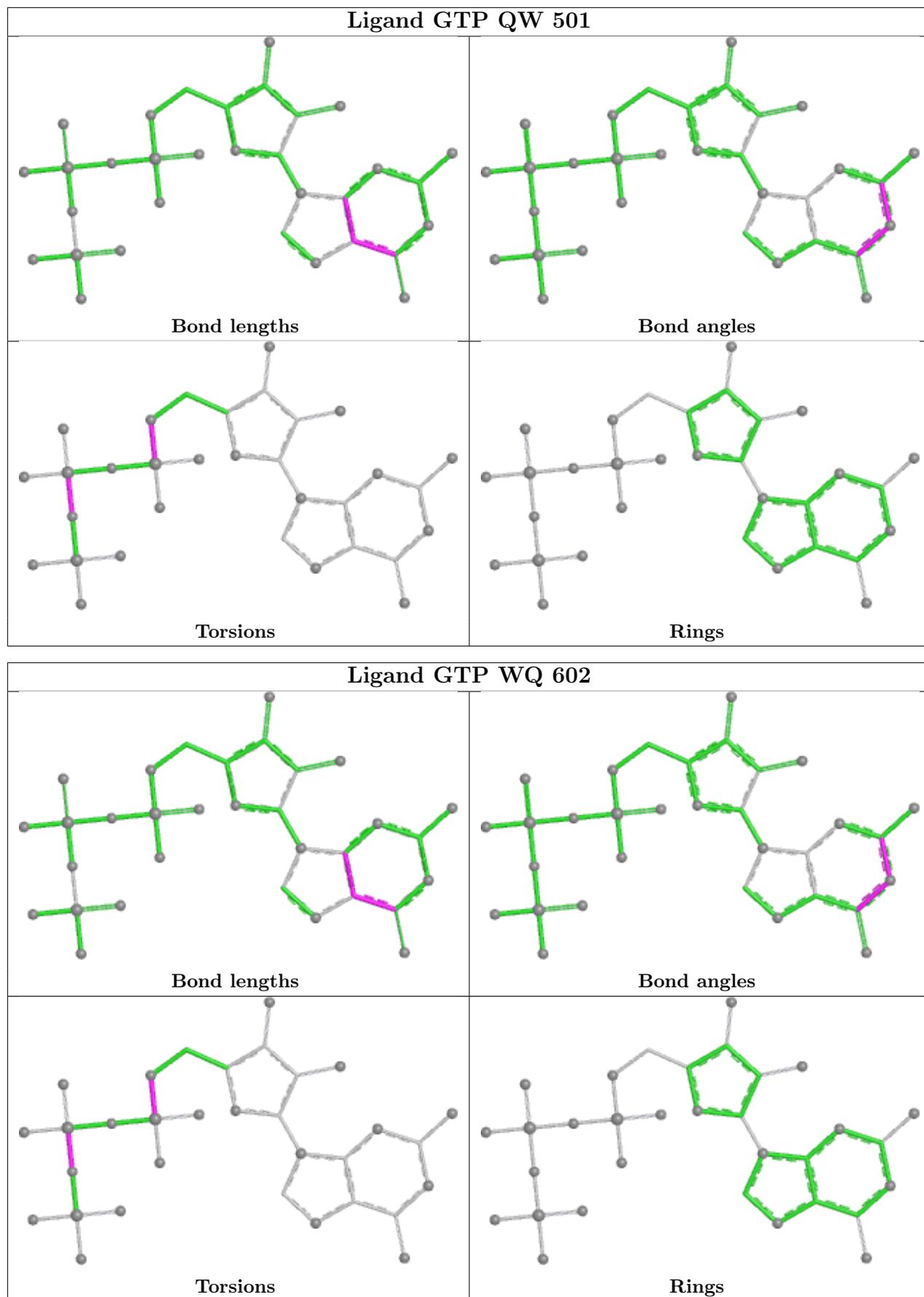


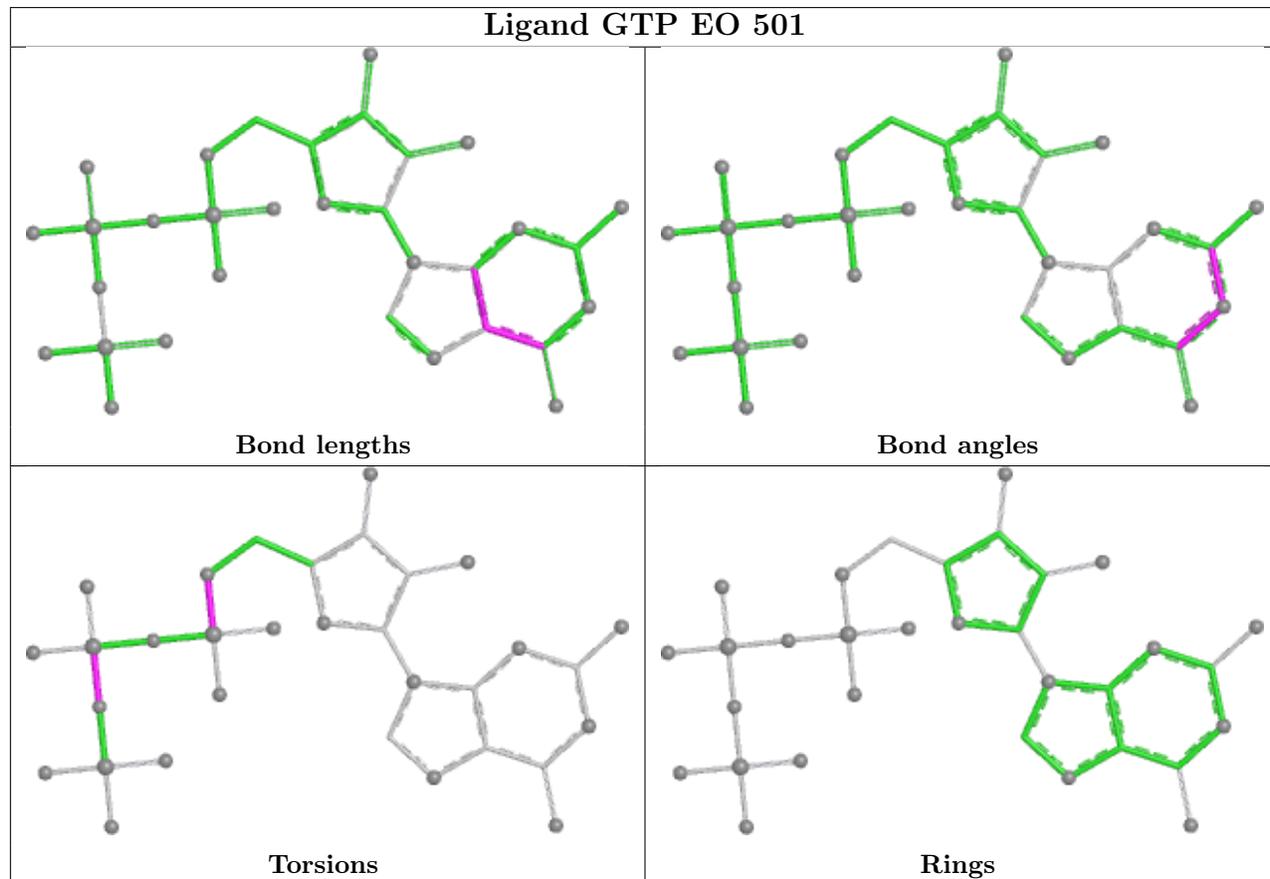
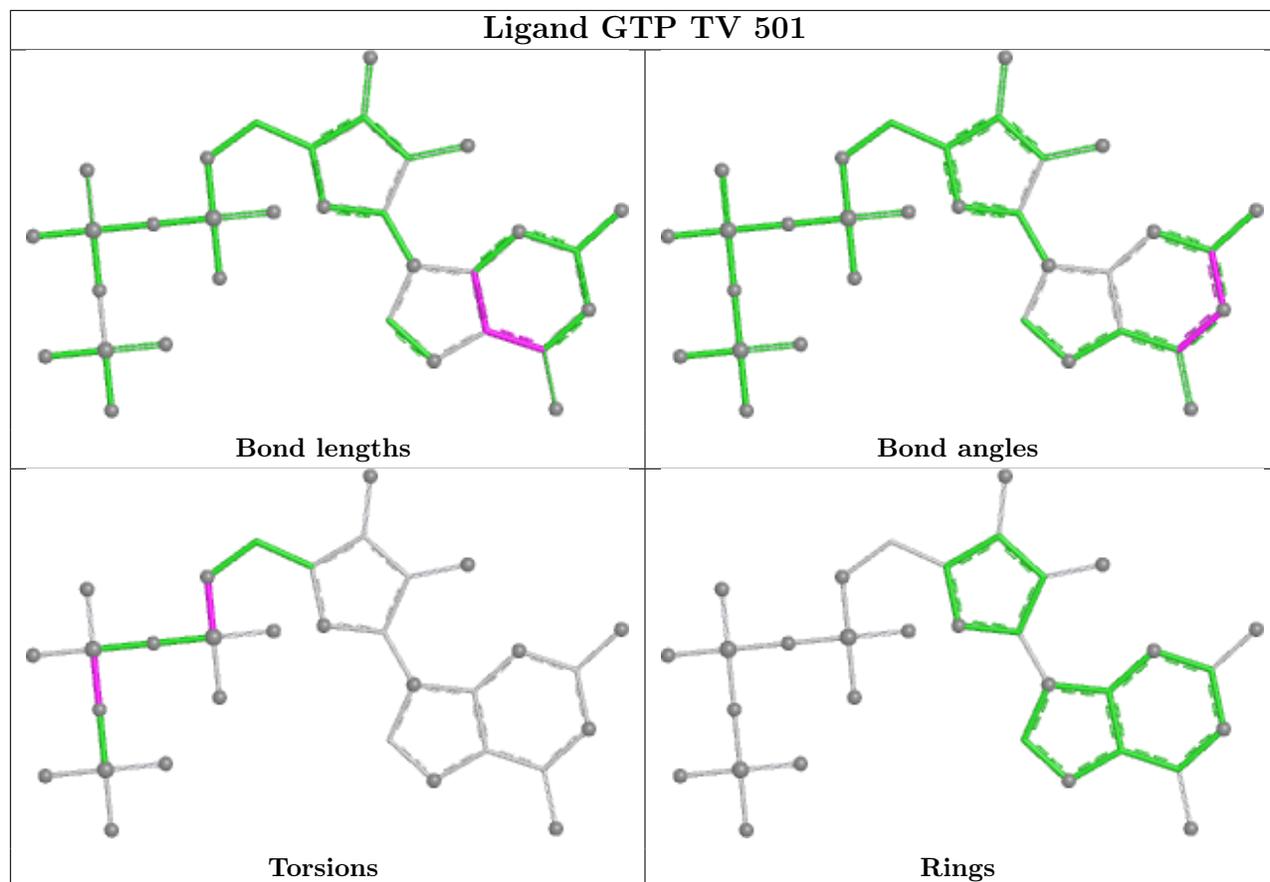


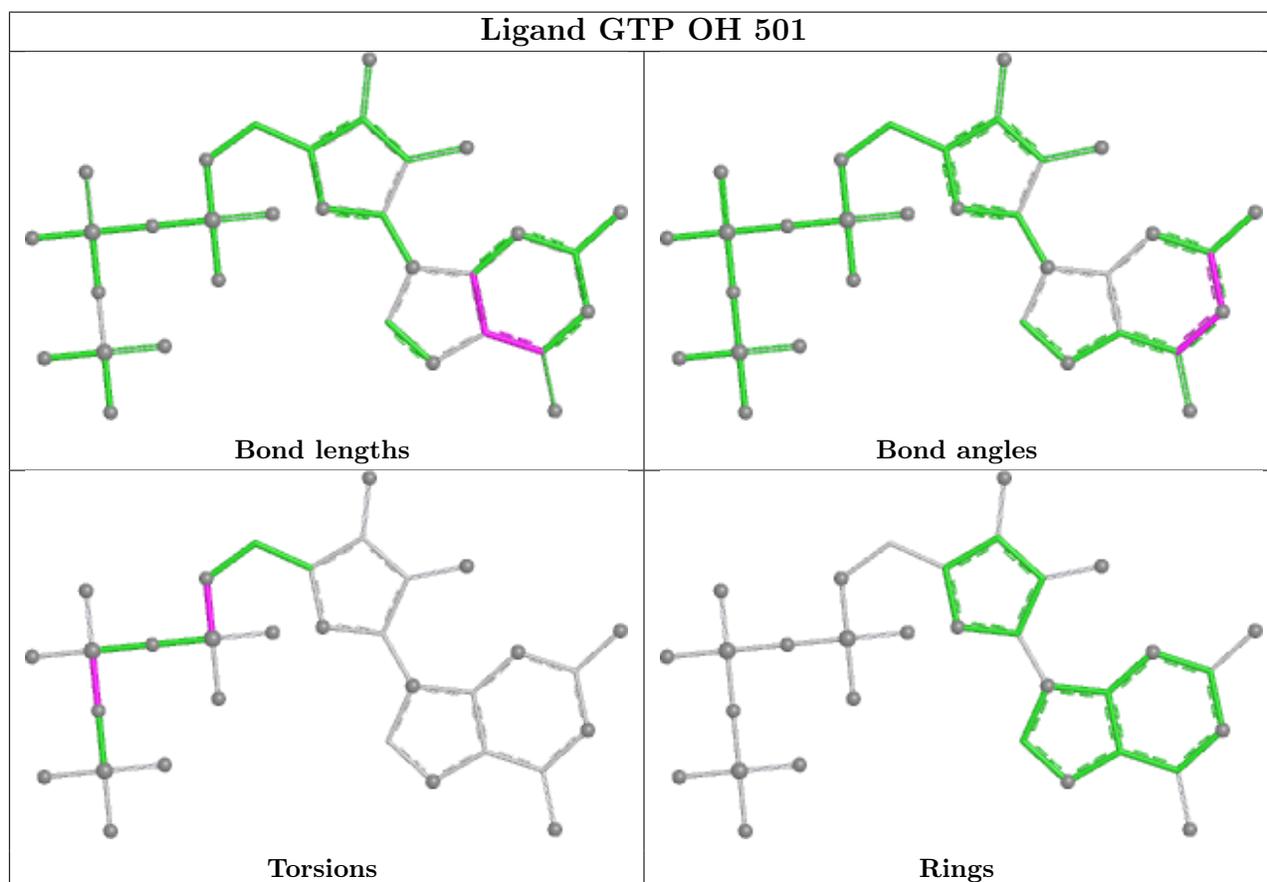
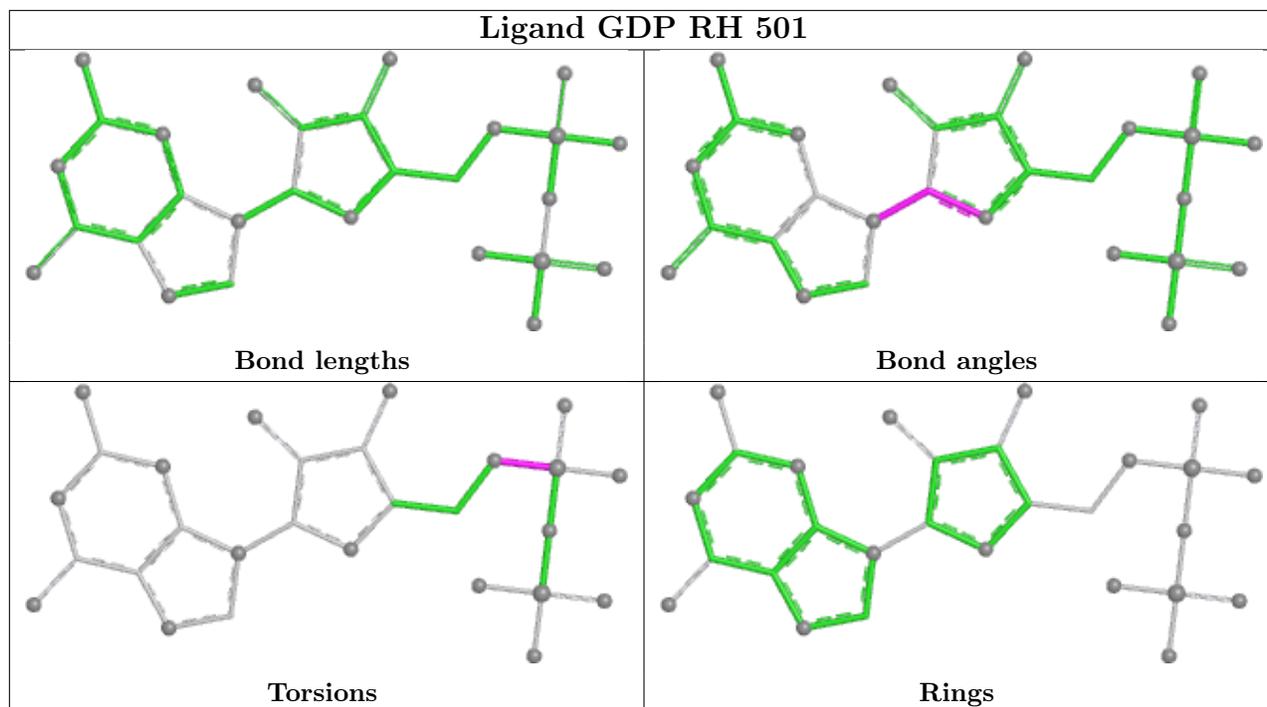


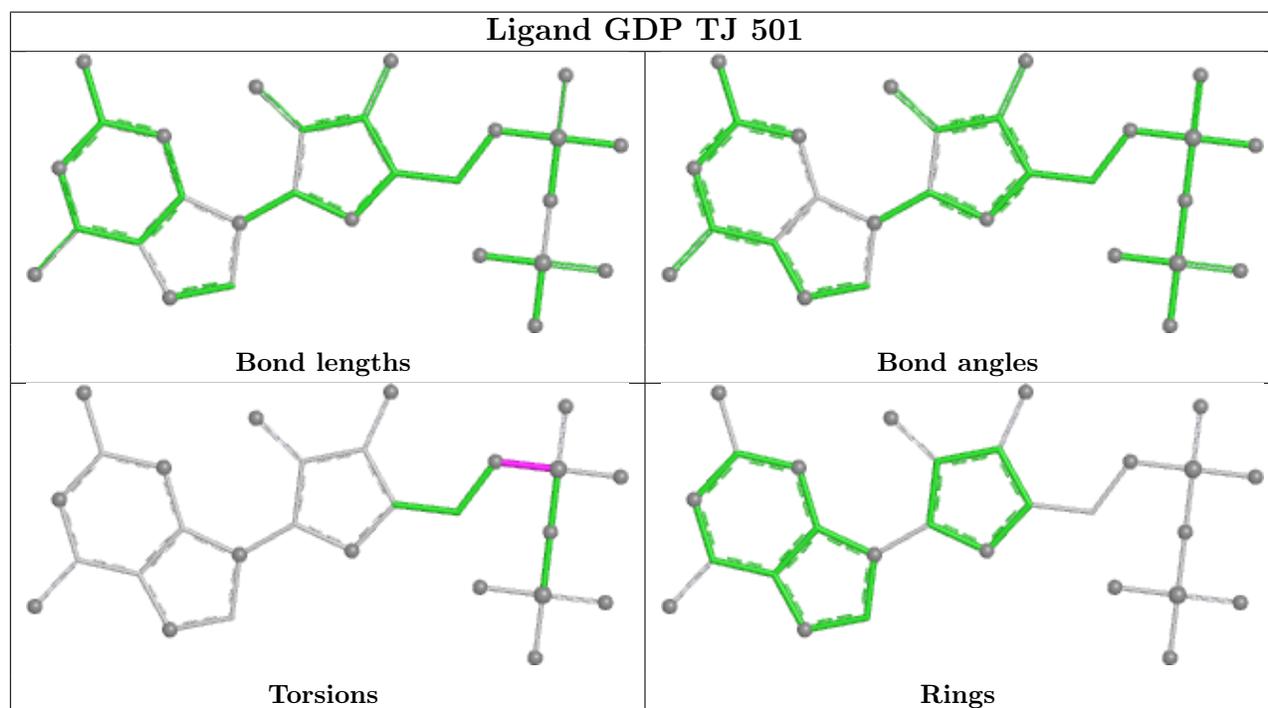
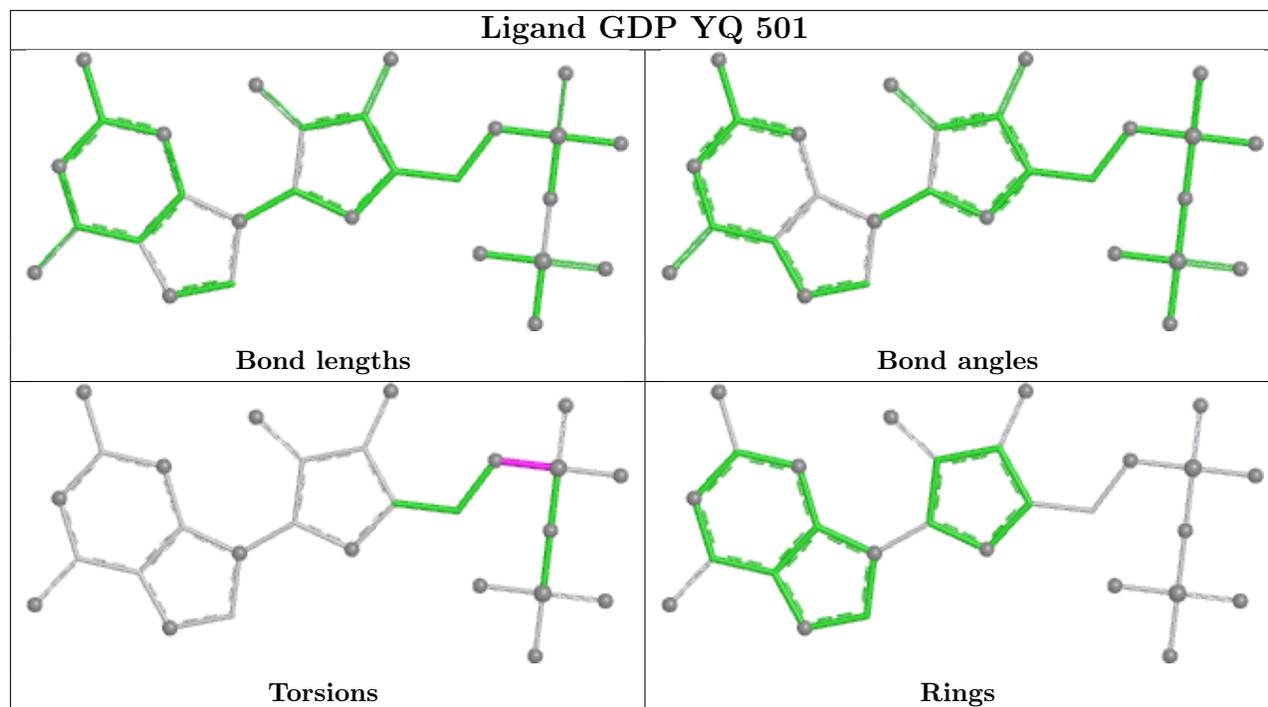


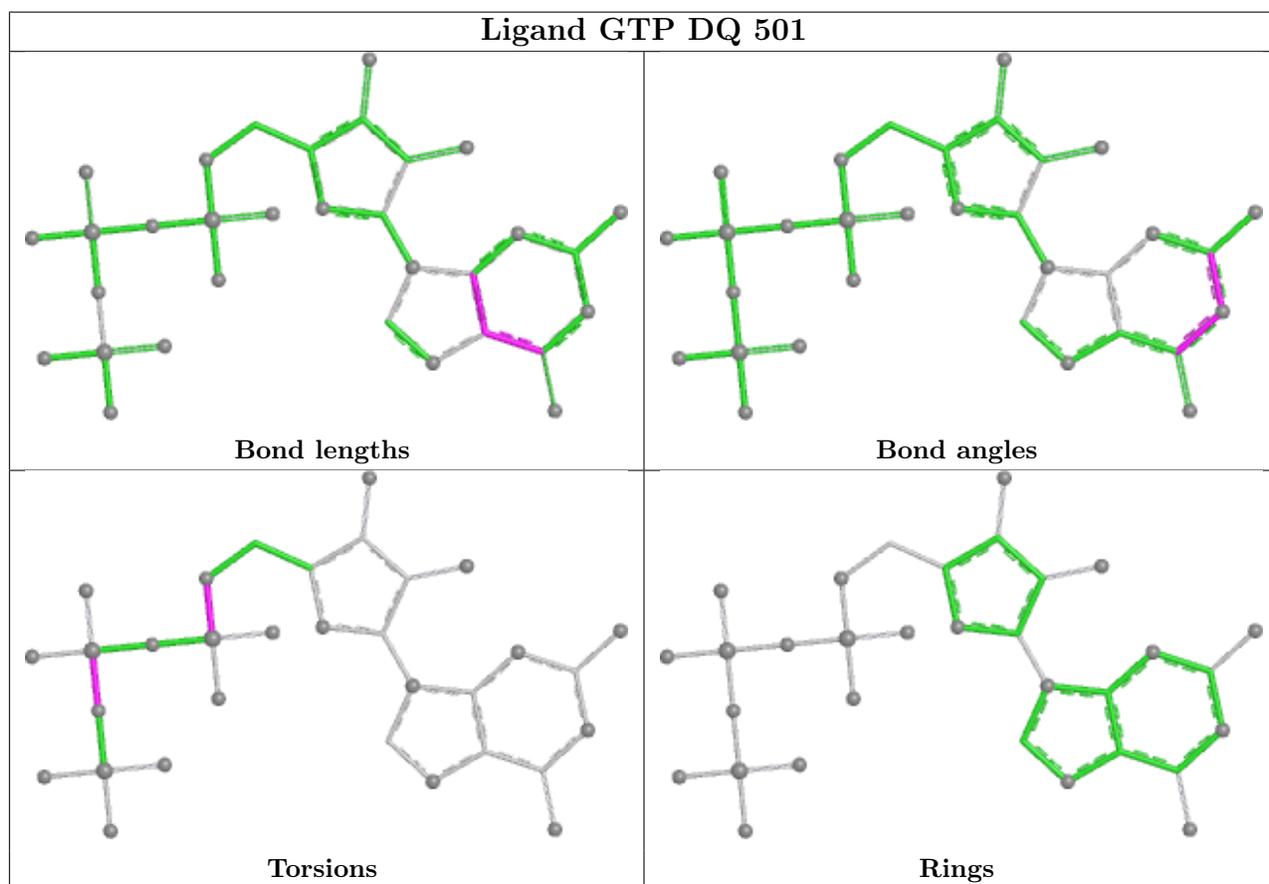
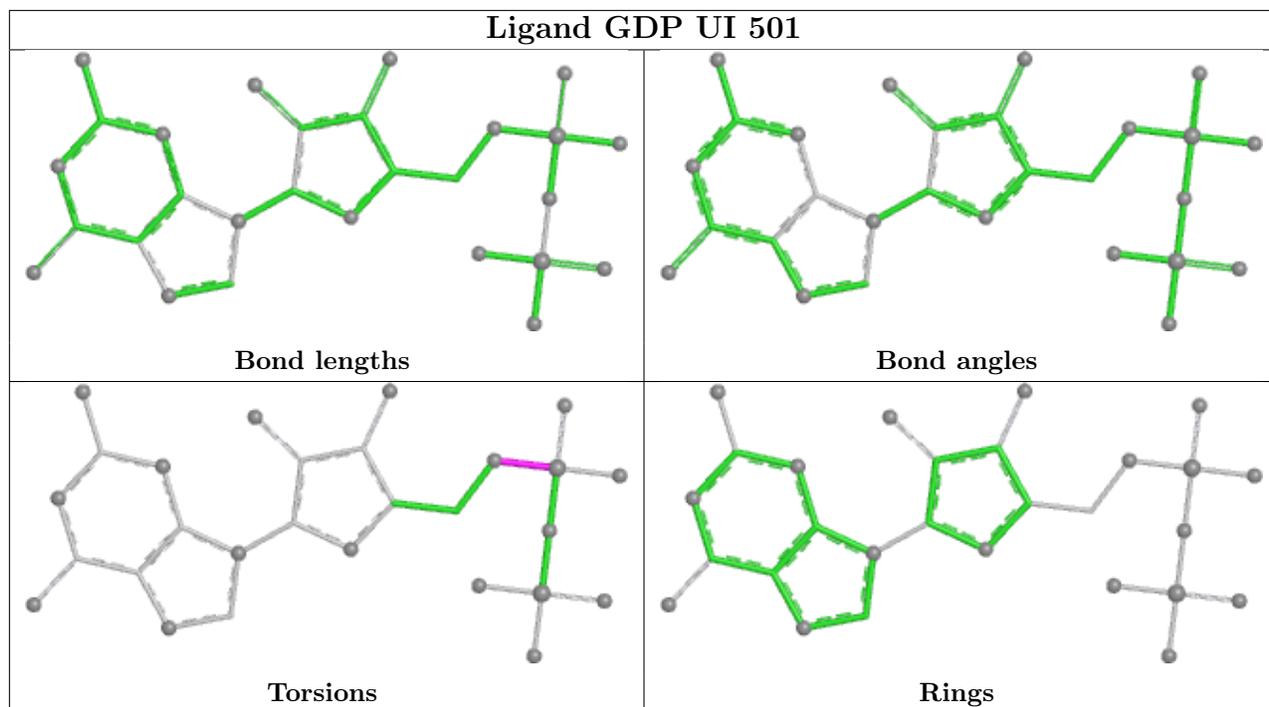


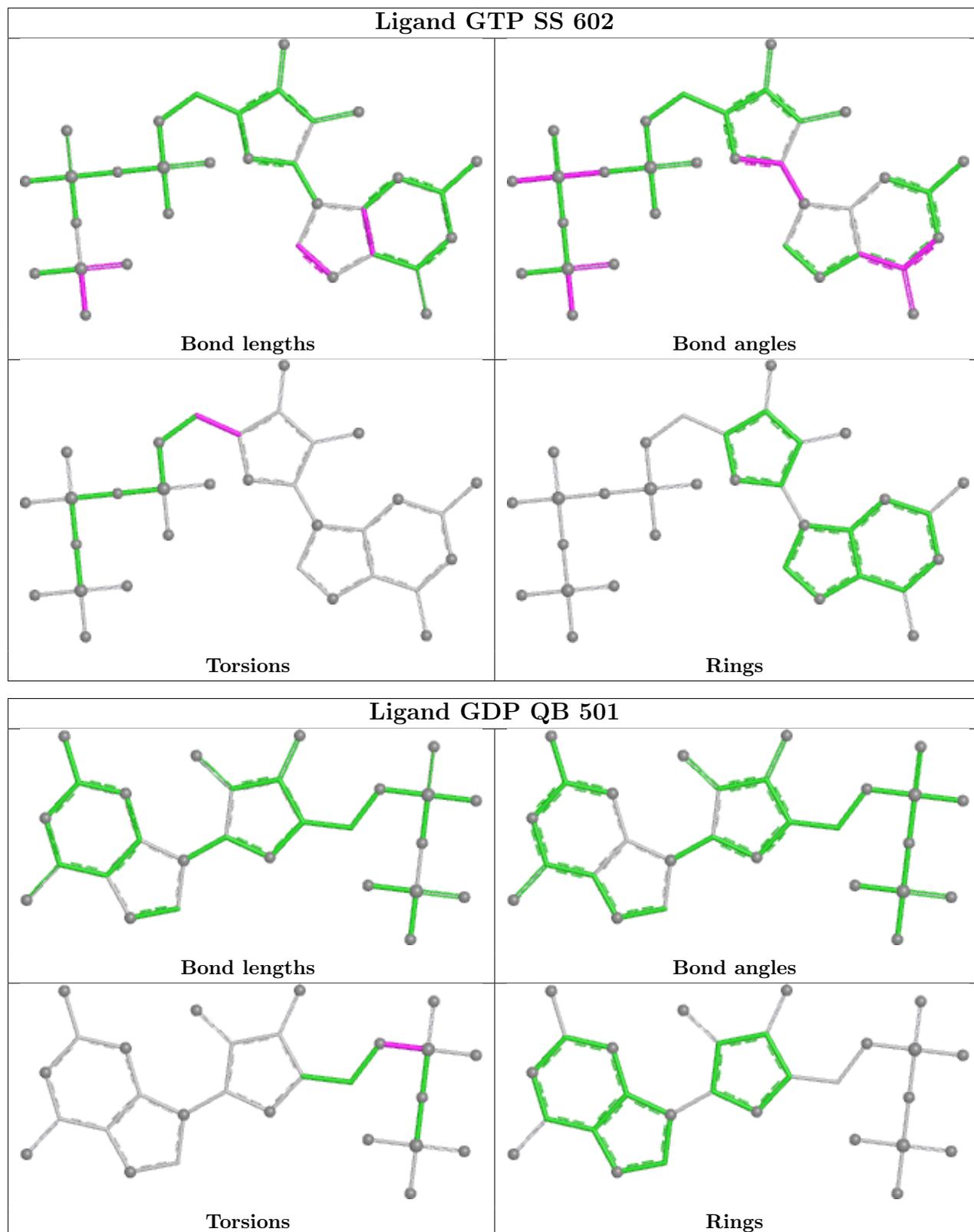


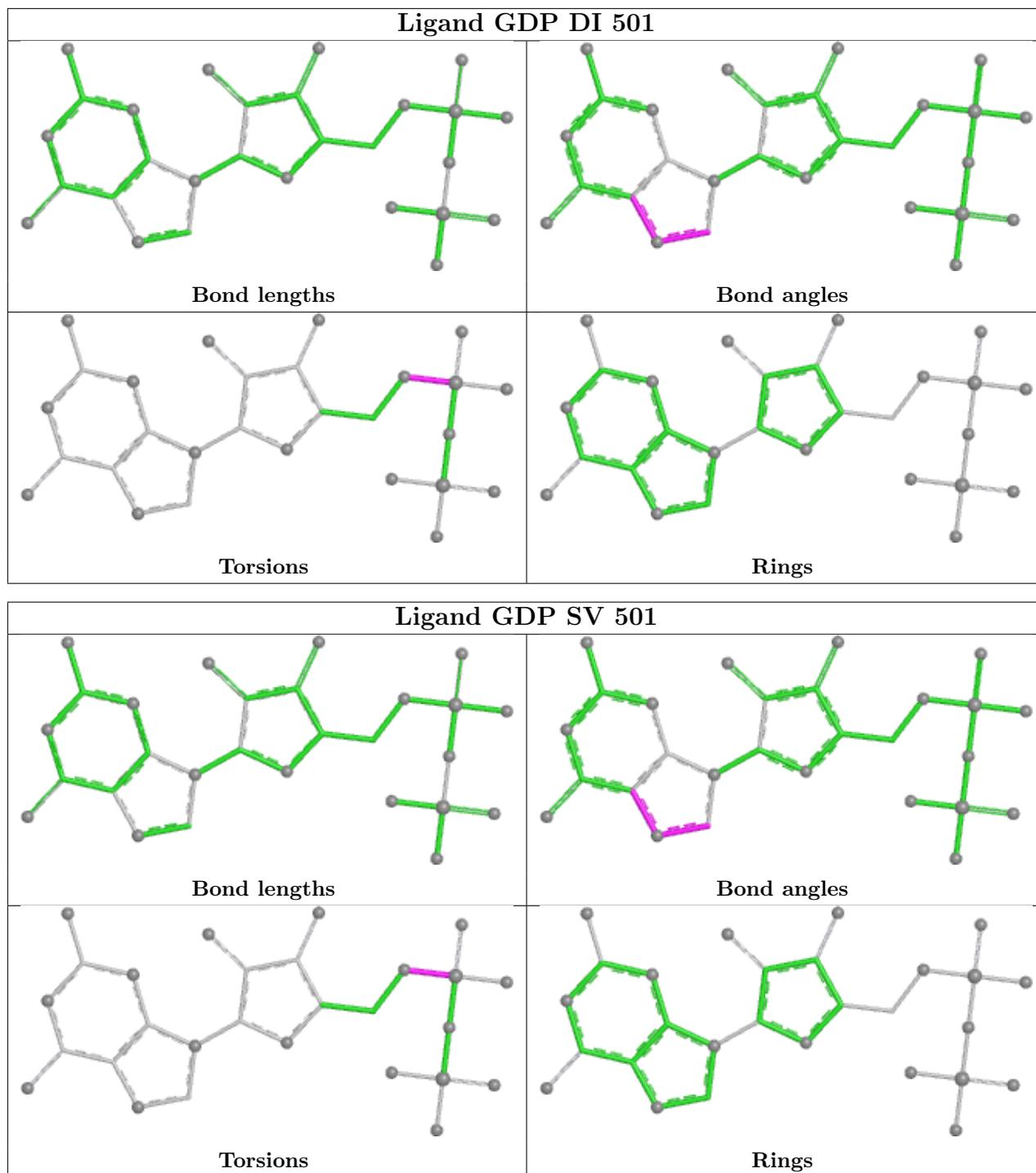


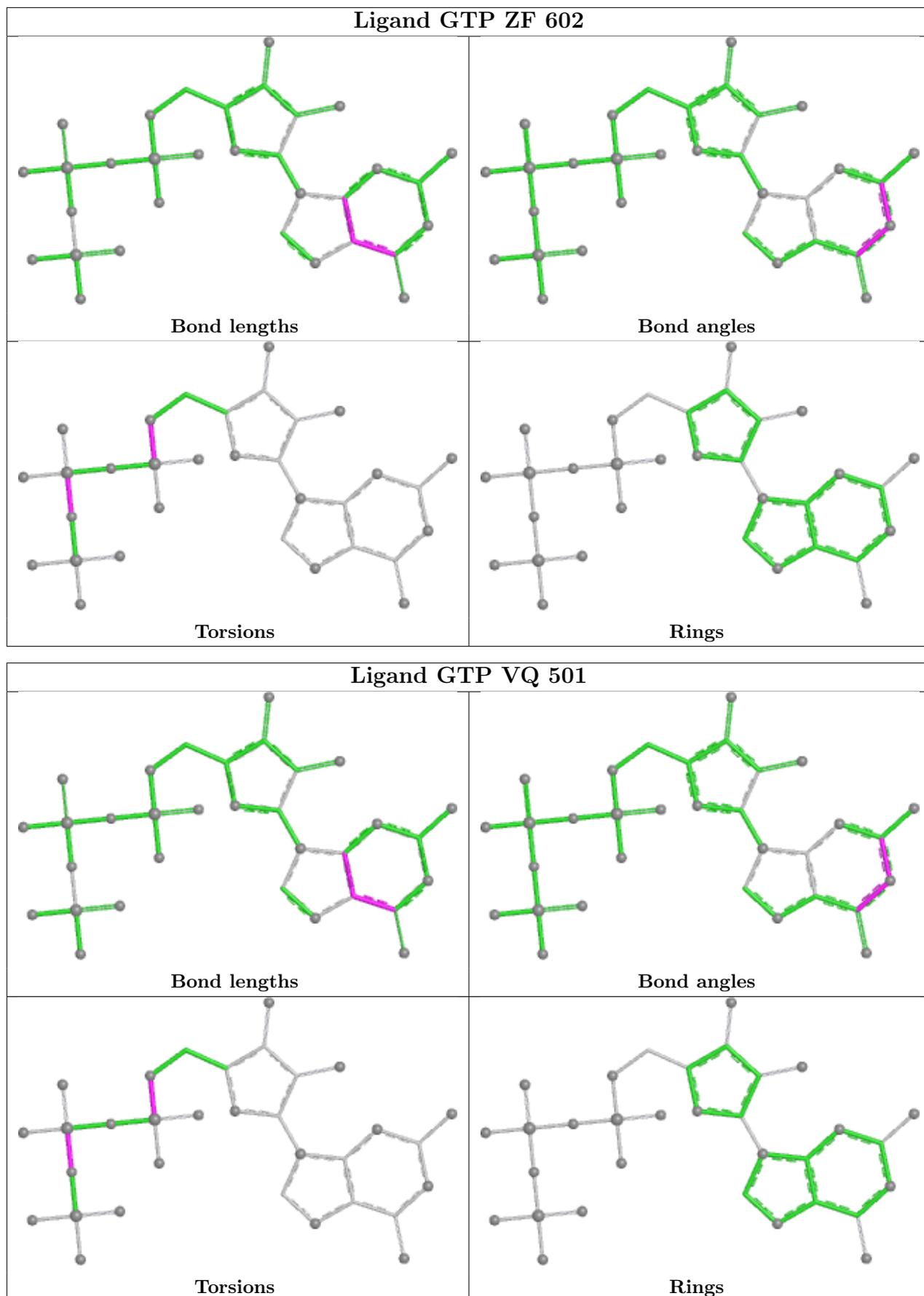


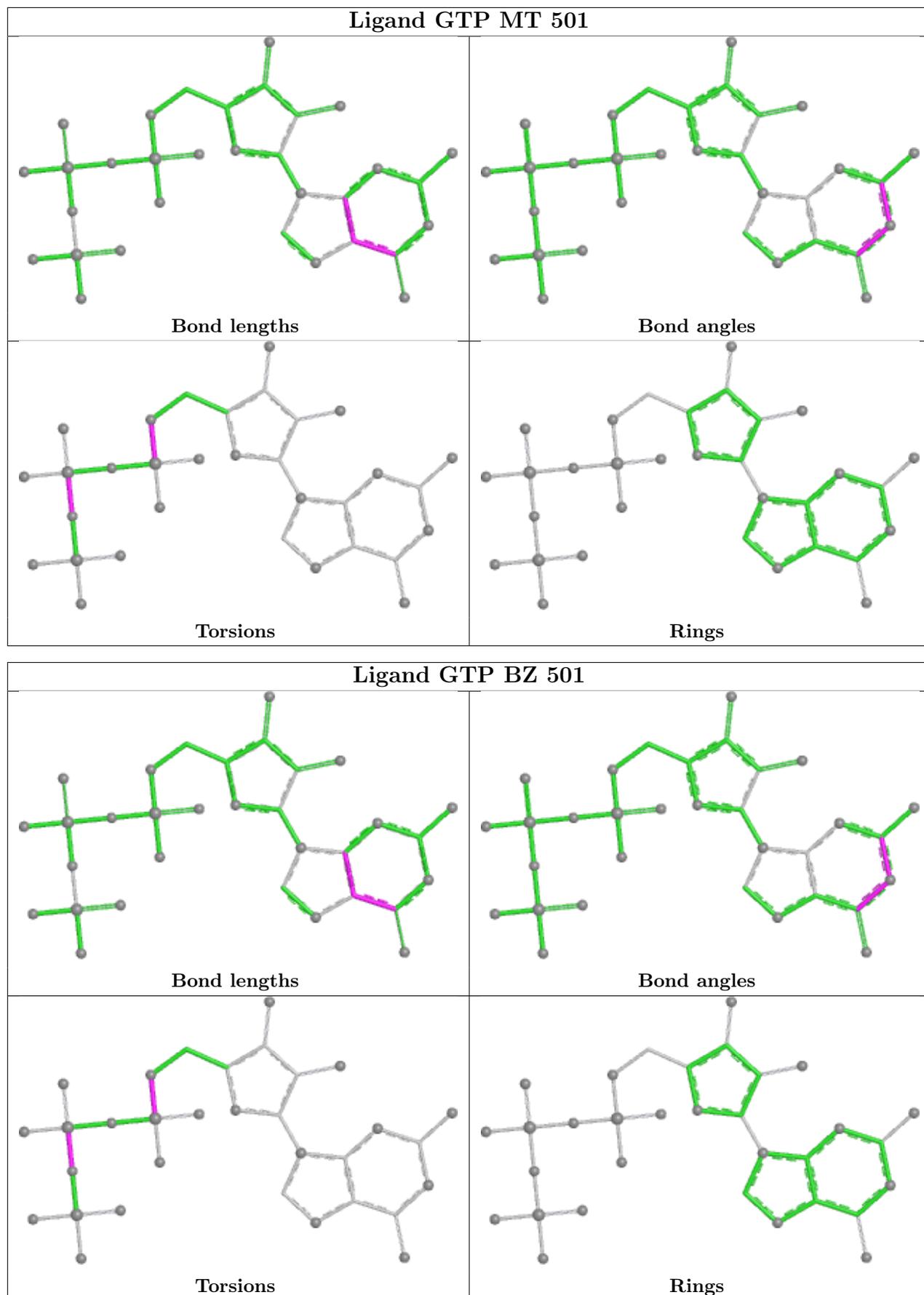


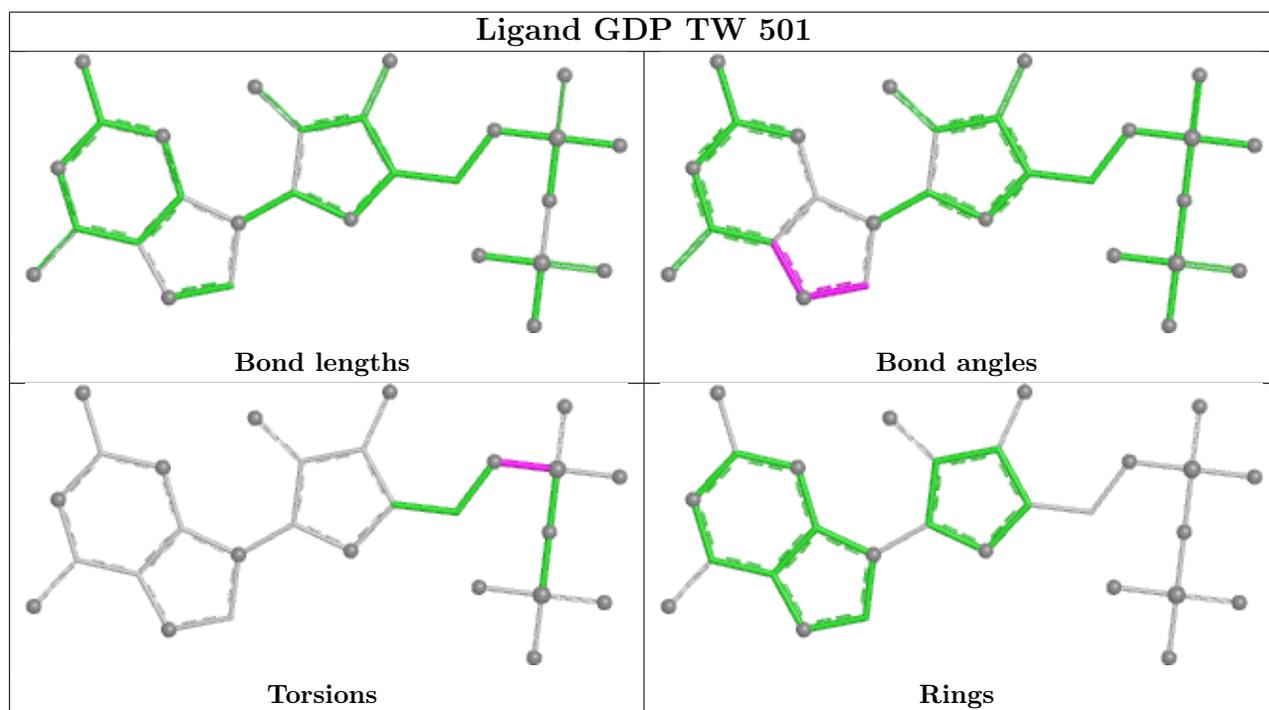
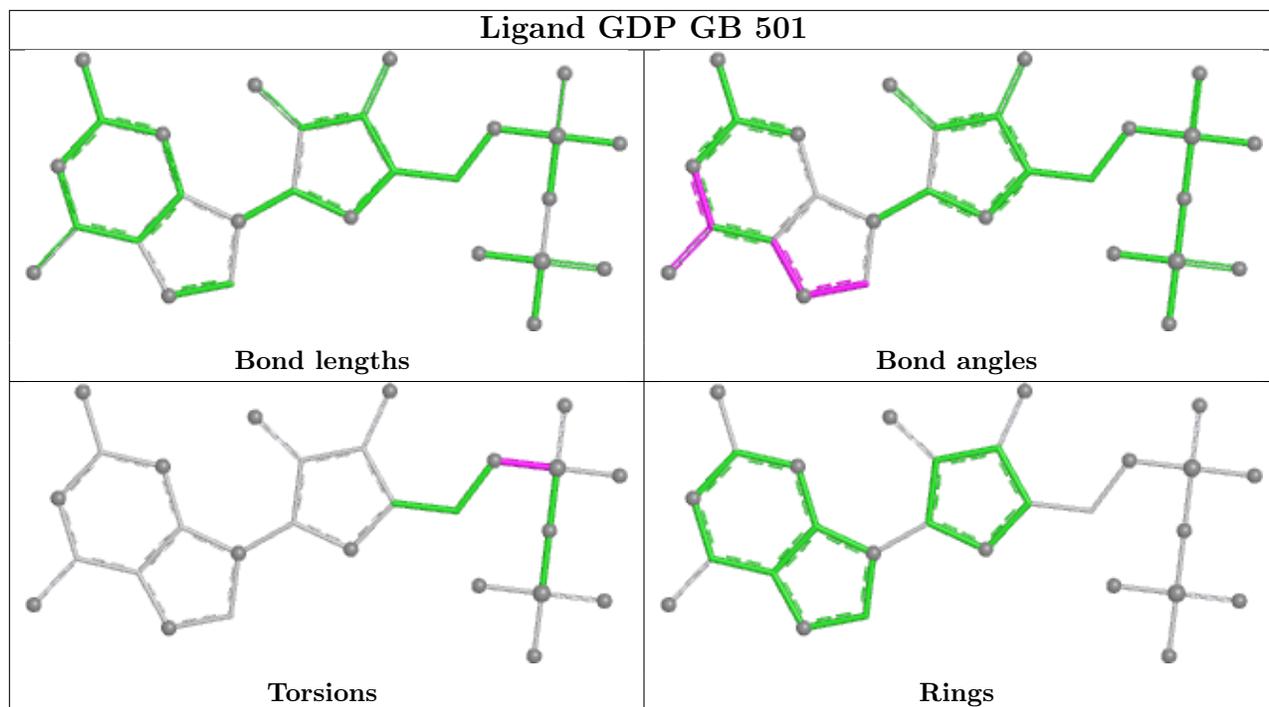


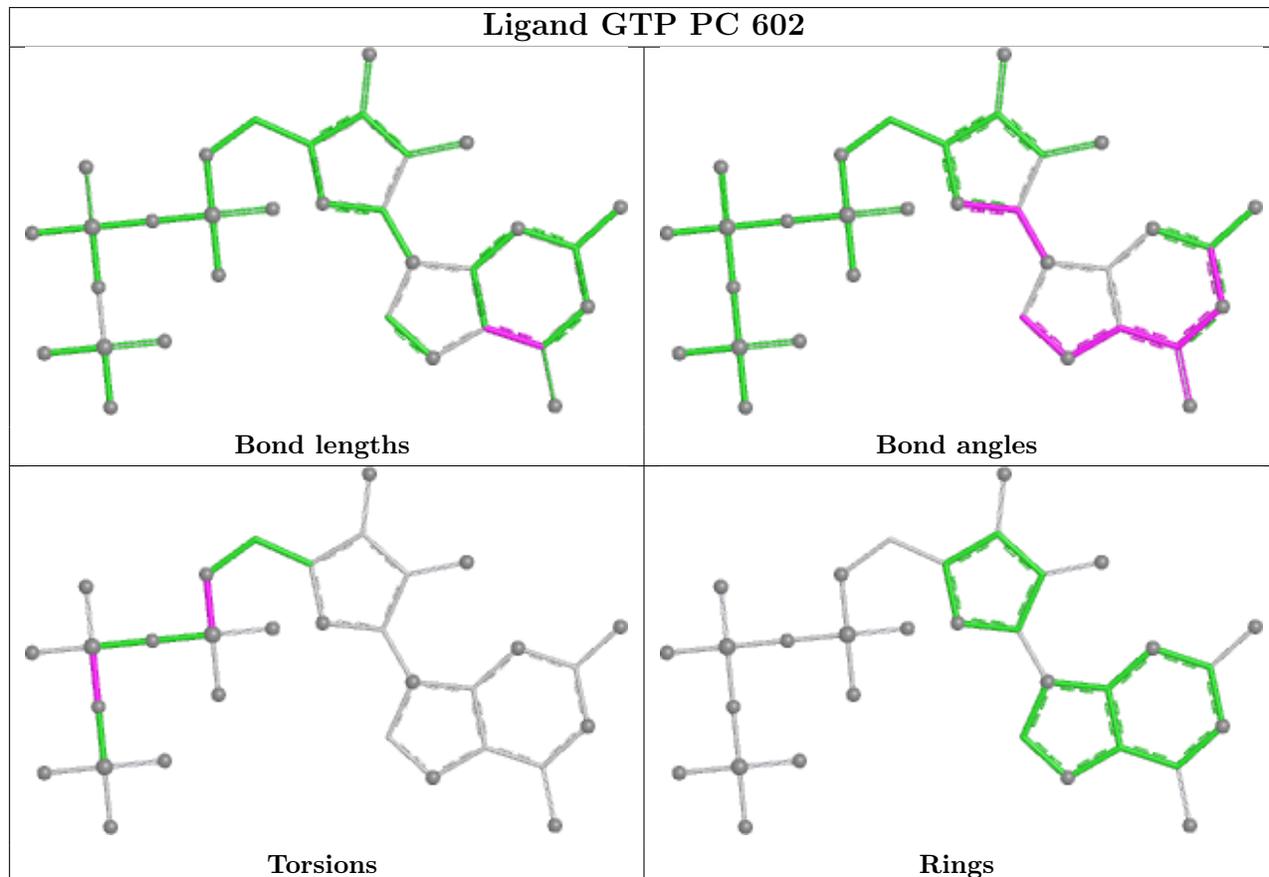
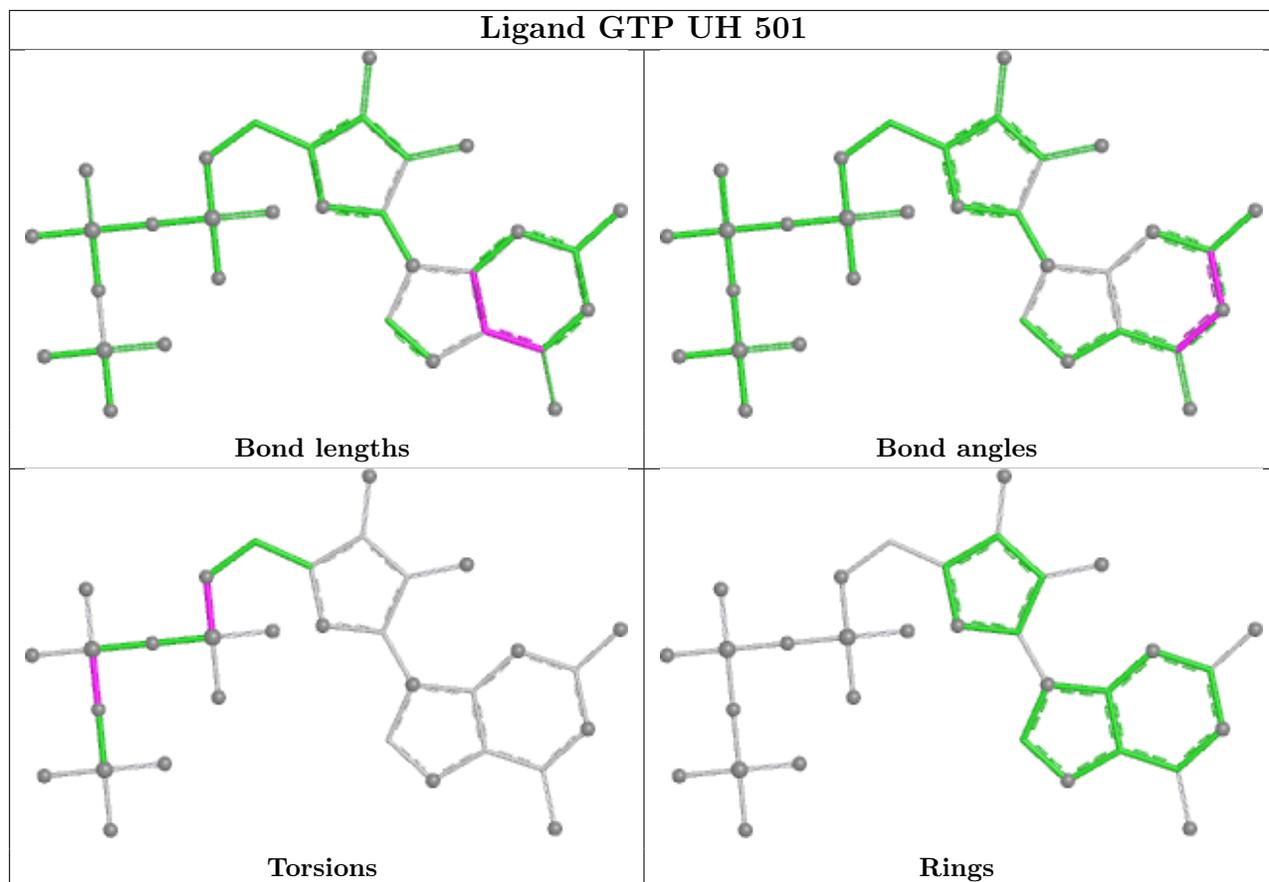


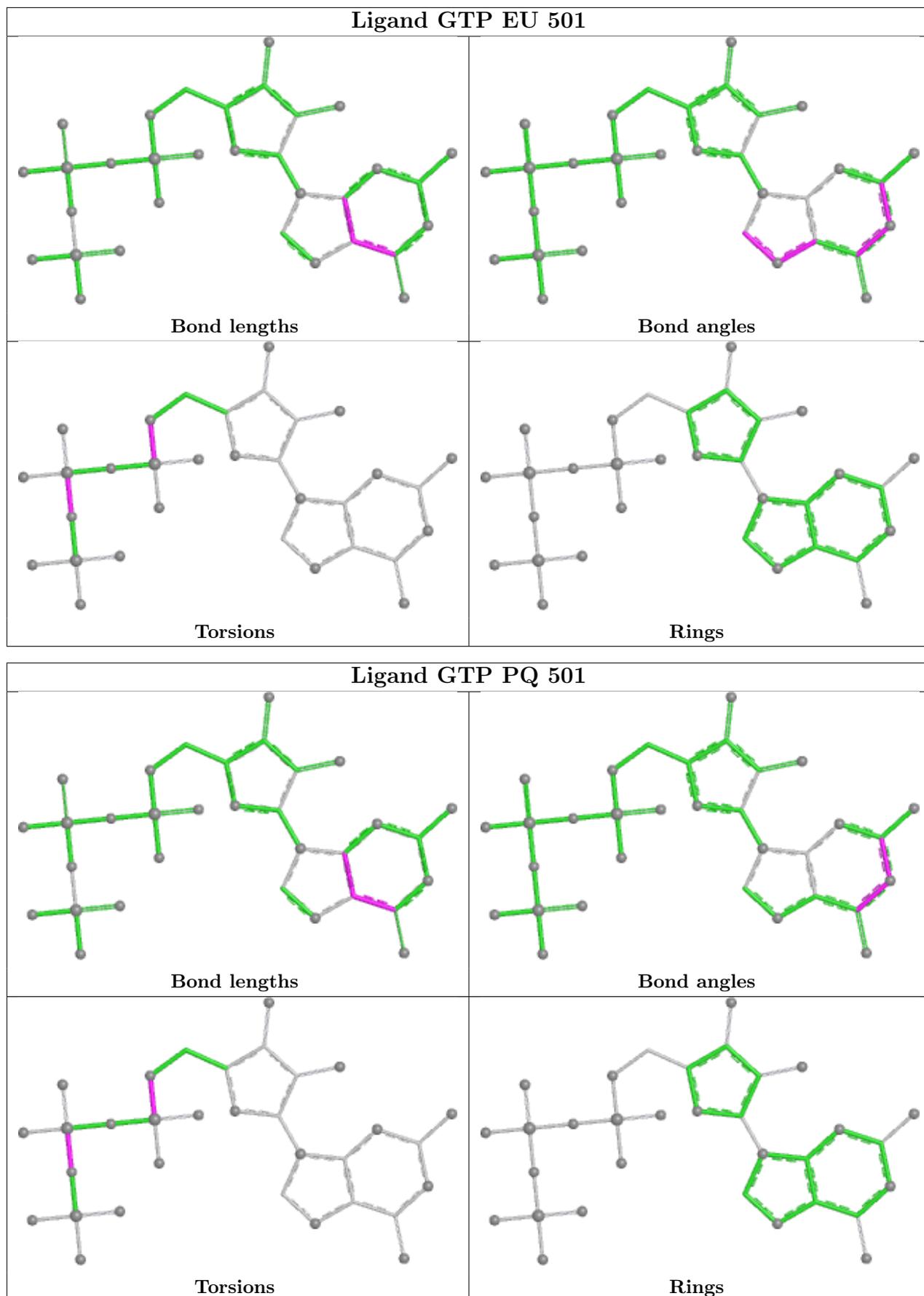


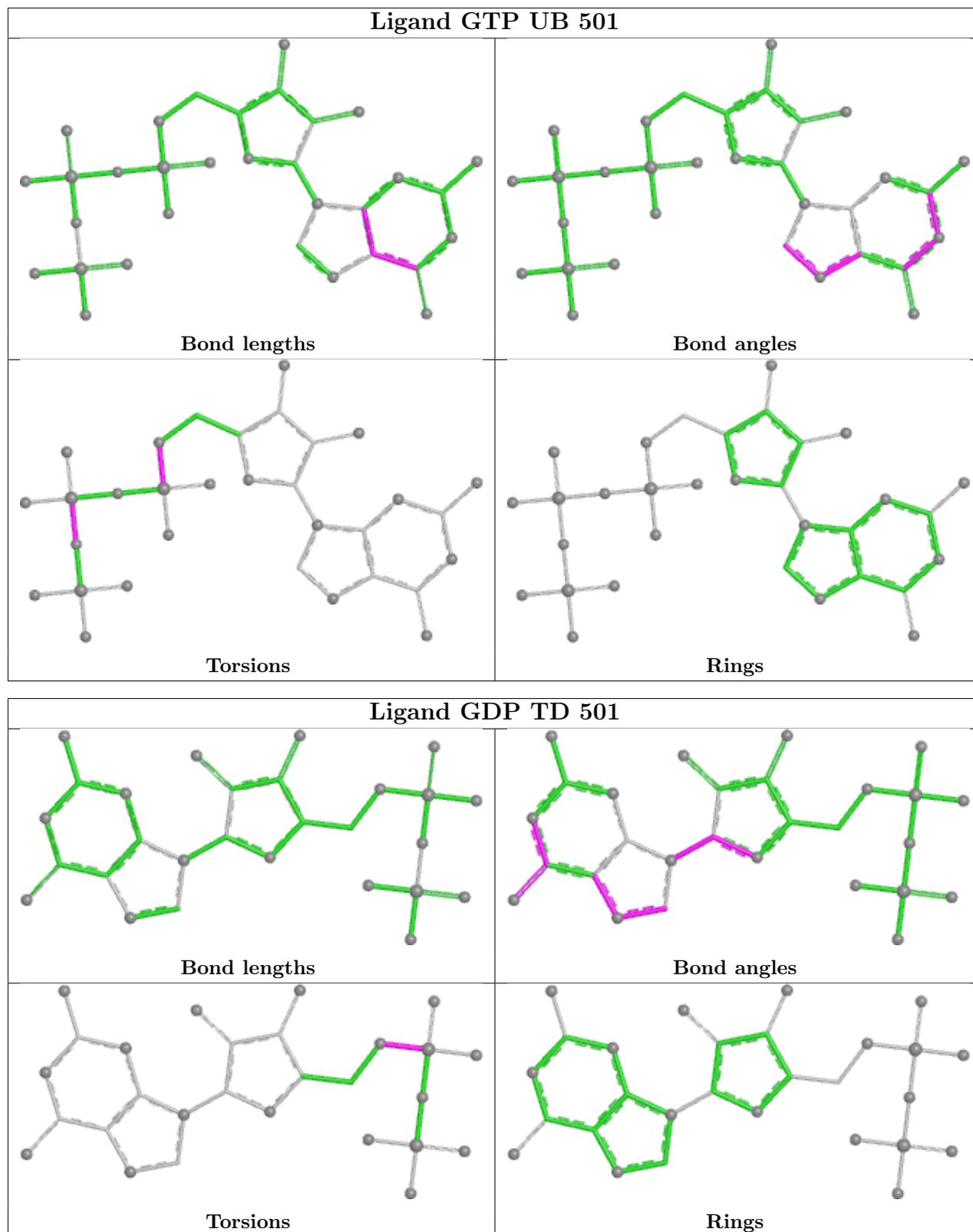


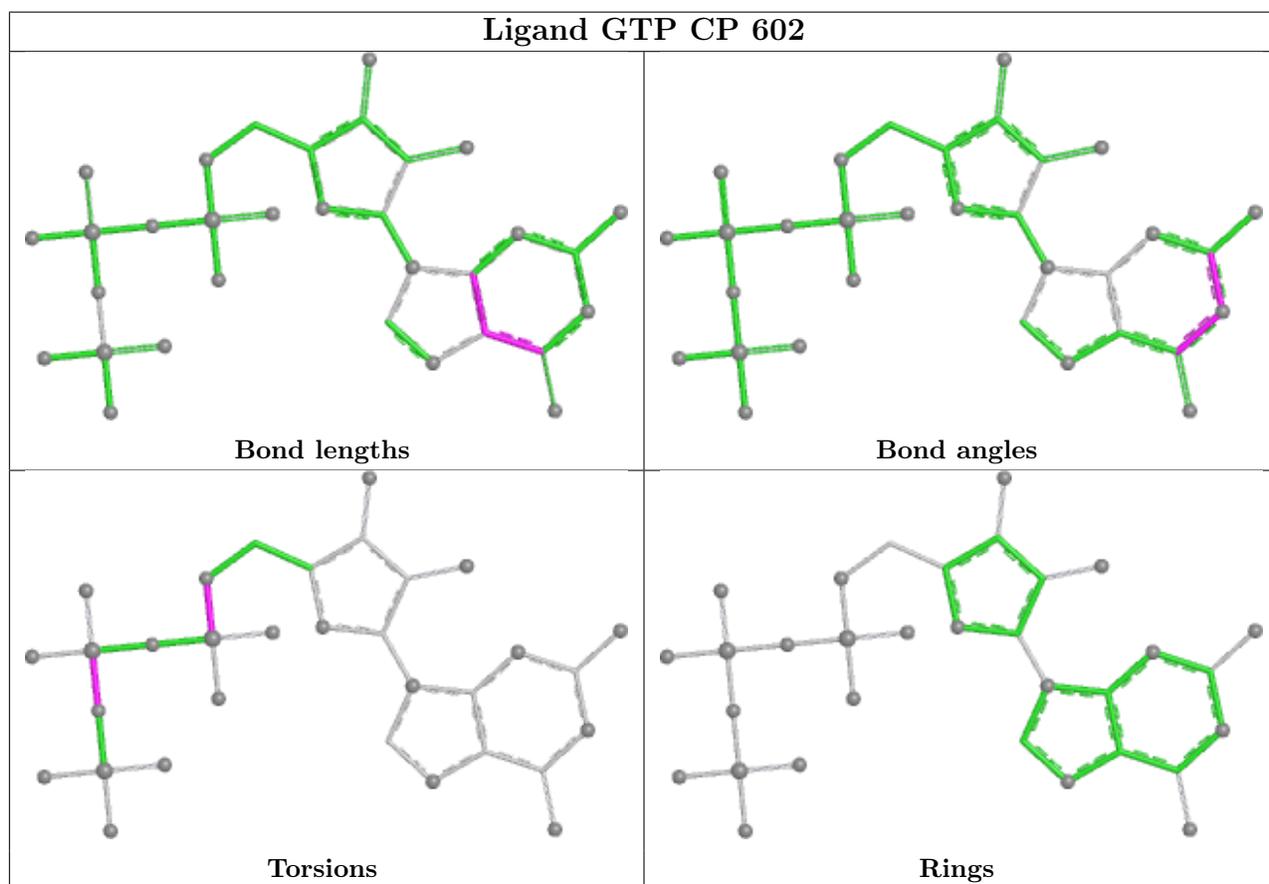
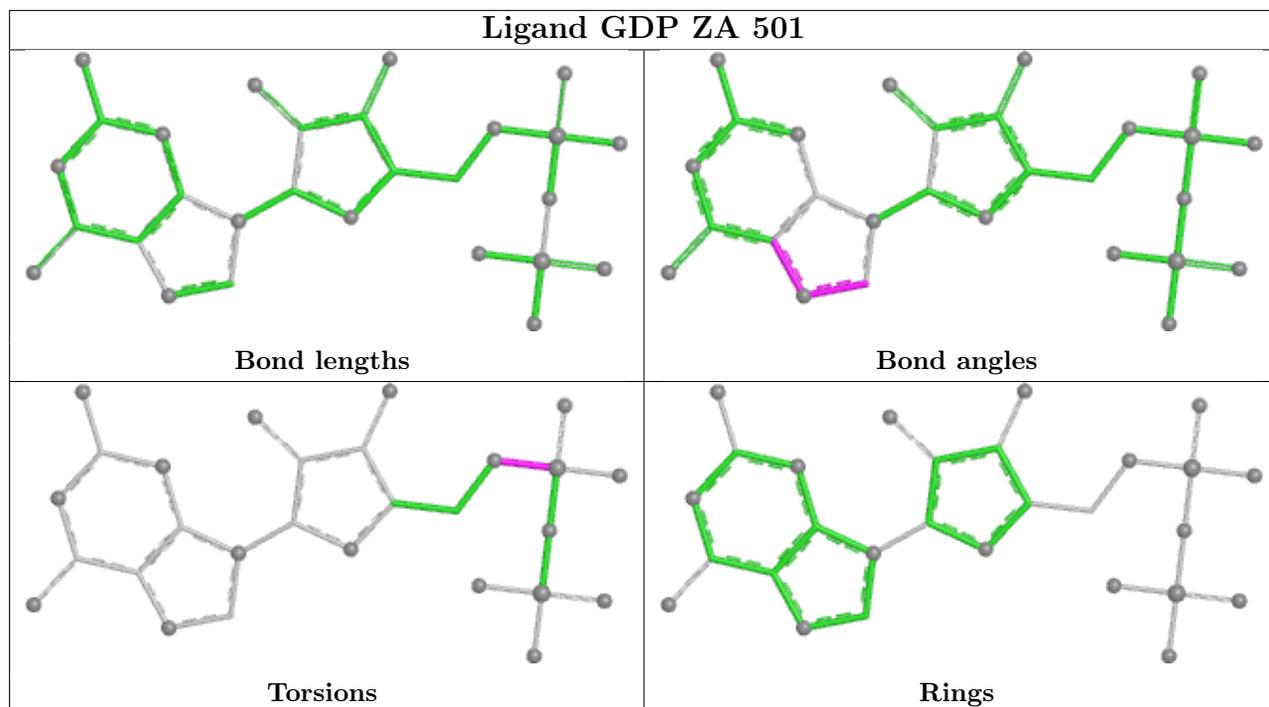


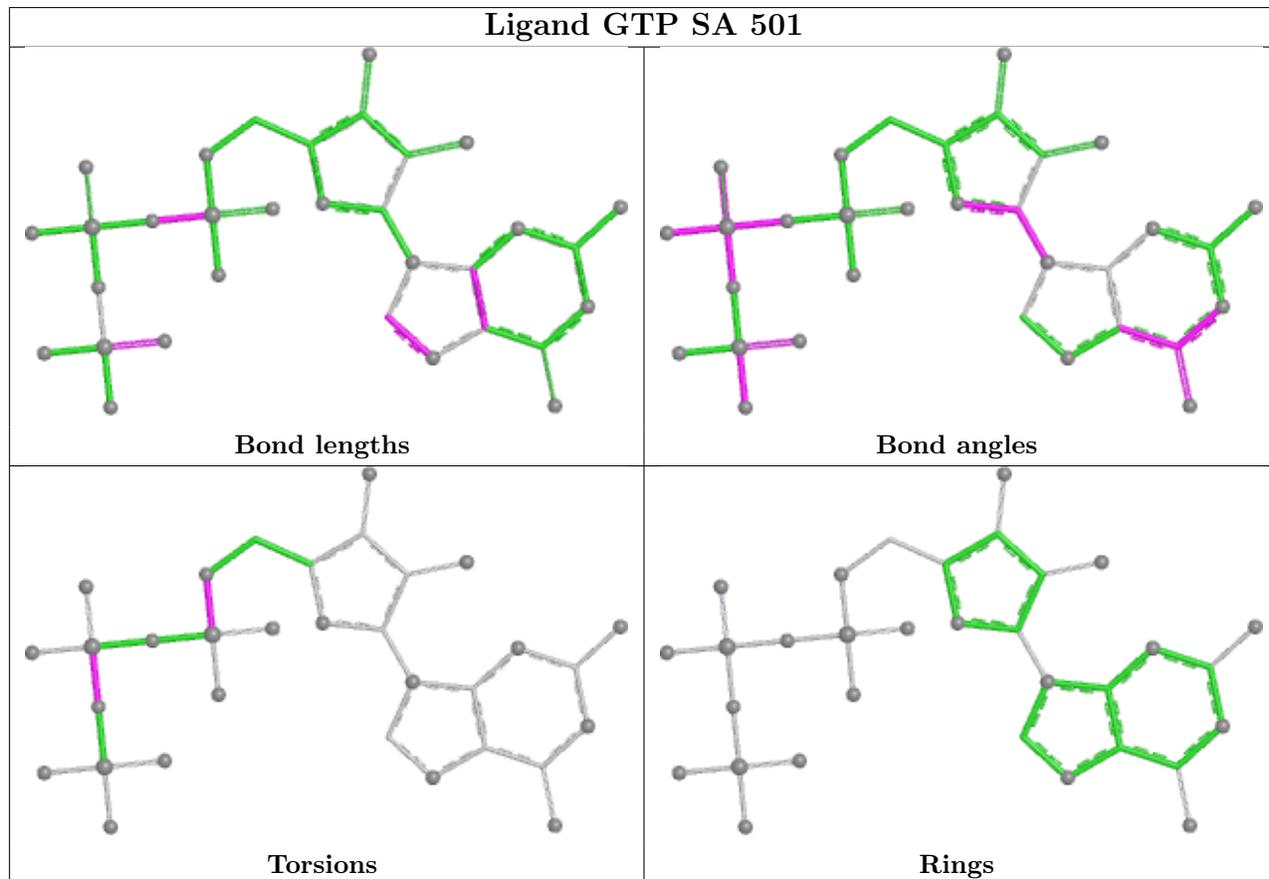
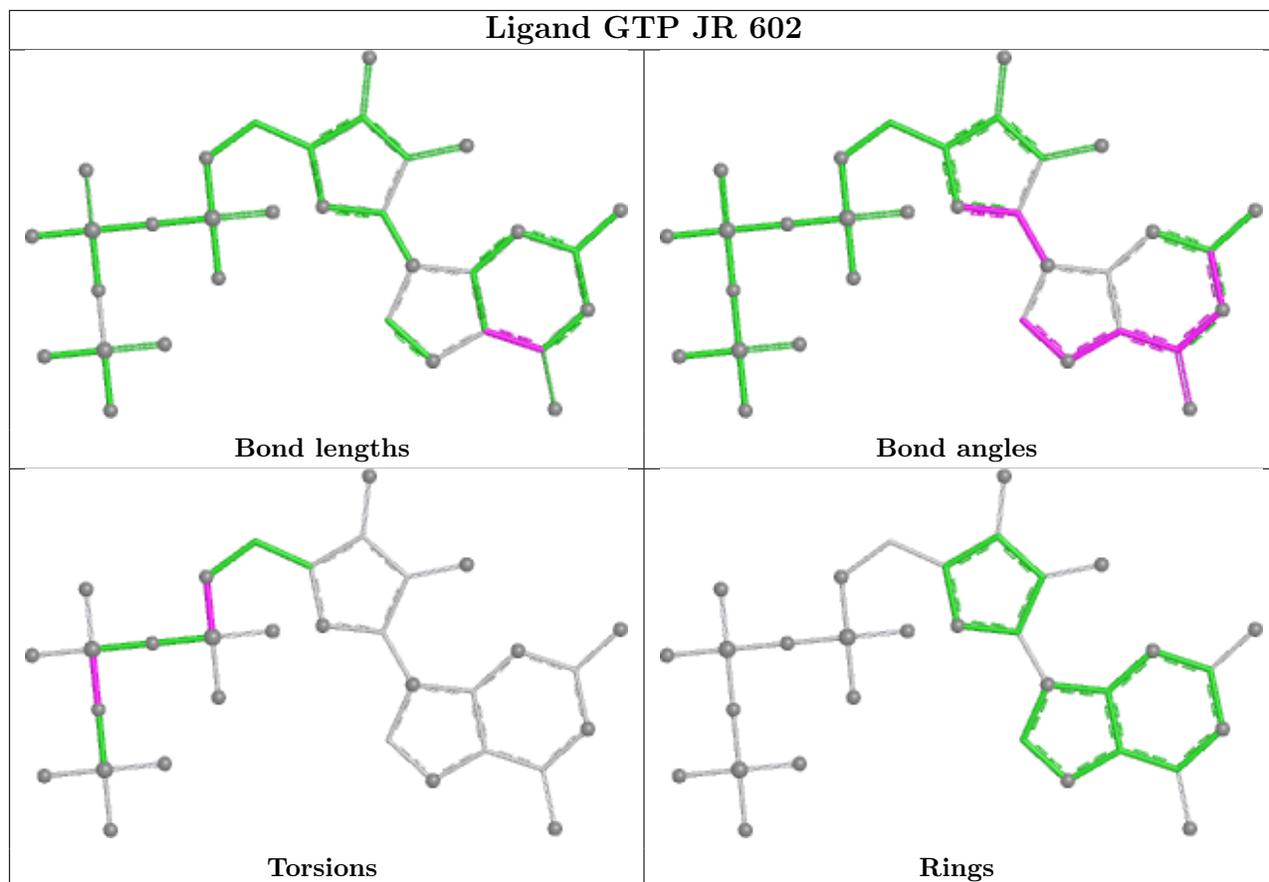












5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-47524. 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 standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 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.