



Full wwPDB EM Validation Report ⓘ

Nov 16, 2022 – 05:02 PM JST

PDB ID : 7D0J
EMDB ID : EMD-30536
Title : Photosystem I-LHCI-LHCII of Chlamydomonas reinhardtii
Authors : Wang, W.D.; Shen, L.L.; Huang, Z.H.; Han, G.Y.; Zhang, X.; Shen, J.R.
Deposited on : 2020-09-10
Resolution : 3.42 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:

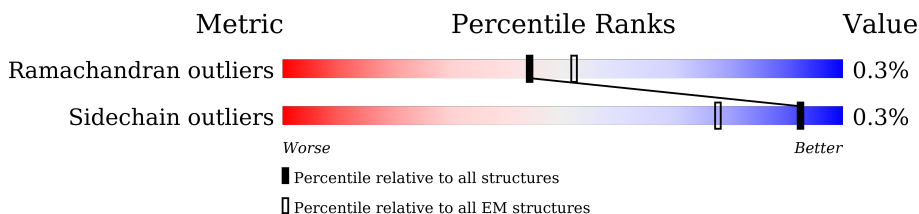
EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

1 Overall quality at a glance

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

The reported resolution of this entry is 3.42 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | A | 740 | |
| 2 | B | 734 | |
| 3 | C | 80 | |
| 4 | D | 144 | |
| 5 | E | 63 | |
| 6 | F | 165 | |
| 7 | G | 91 | |
| 8 | H | 100 | |
| 9 | I | 37 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 10 | J | 41 | 51% 98% |
| 11 | K | 85 | 95% 98% |
| 12 | L | 159 | 36% 99% |
| 13 | O | 93 | 70% 99% |
| 14 | P | 219 | 100% |
| 14 | Q | 219 | 99% |
| 14 | R | 219 | 100% |
| 14 | T | 219 | 99% |
| 14 | U | 219 | 100% |
| 15 | S | 234 | 100% |
| 16 | 1 | 194 | 97% |
| 16 | a | 194 | 69% 100% |
| 17 | 2 | 201 | 98% 99% |
| 18 | 3 | 203 | 80% 97% |
| 19 | 4 | 205 | 41% 100% |
| 20 | 5 | 225 | 95% 99% |
| 21 | 6 | 230 | 56% 100% |
| 22 | 7 | 213 | 76% 98% |
| 23 | 8 | 217 | 44% 99% |
| 24 | 9 | 182 | 62% 100% |
| | | | 87% 99% |

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | 1 | 602 | X | - | - | - |
| 25 | CLA | 1 | 603 | X | - | - | - |
| 25 | CLA | 1 | 604 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | 1 | 605 | X | - | - | - |
| 25 | CLA | 1 | 607 | X | - | - | - |
| 25 | CLA | 1 | 608 | X | - | - | - |
| 25 | CLA | 1 | 609 | X | - | - | - |
| 25 | CLA | 1 | 610 | X | - | - | - |
| 25 | CLA | 1 | 611 | X | - | - | - |
| 25 | CLA | 1 | 612 | X | - | - | - |
| 25 | CLA | 1 | 613 | X | - | - | - |
| 25 | CLA | 1 | 614 | X | - | - | - |
| 25 | CLA | 2 | 302 | X | - | - | - |
| 25 | CLA | 2 | 303 | X | - | - | - |
| 25 | CLA | 2 | 304 | X | - | - | - |
| 25 | CLA | 2 | 305 | X | - | - | - |
| 25 | CLA | 2 | 306 | X | - | - | - |
| 25 | CLA | 2 | 307 | X | - | - | - |
| 25 | CLA | 2 | 308 | X | - | - | - |
| 25 | CLA | 2 | 309 | X | - | - | - |
| 25 | CLA | 2 | 310 | X | - | - | - |
| 25 | CLA | 2 | 311 | X | - | - | - |
| 25 | CLA | 2 | 312 | X | - | - | - |
| 25 | CLA | 2 | 313 | X | - | - | - |
| 25 | CLA | 2 | 314 | X | - | - | - |
| 25 | CLA | 3 | 301 | X | - | - | - |
| 25 | CLA | 3 | 302 | X | - | - | - |
| 25 | CLA | 3 | 303 | X | - | - | - |
| 25 | CLA | 3 | 304 | X | - | - | - |
| 25 | CLA | 3 | 305 | X | - | - | - |
| 25 | CLA | 3 | 307 | X | - | - | - |
| 25 | CLA | 3 | 308 | X | - | - | - |
| 25 | CLA | 3 | 309 | X | - | - | - |
| 25 | CLA | 3 | 310 | X | - | - | - |
| 25 | CLA | 3 | 311 | X | - | - | - |
| 25 | CLA | 3 | 312 | X | - | - | - |
| 25 | CLA | 3 | 313 | X | - | - | - |
| 25 | CLA | 3 | 314 | X | - | - | - |
| 25 | CLA | 3 | 320 | X | - | - | - |
| 25 | CLA | 4 | 301 | X | - | - | - |
| 25 | CLA | 4 | 302 | X | - | - | - |
| 25 | CLA | 4 | 303 | X | - | - | - |
| 25 | CLA | 4 | 307 | X | - | - | - |
| 25 | CLA | 4 | 308 | X | - | - | - |
| 25 | CLA | 4 | 309 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | 4 | 310 | X | - | - | - |
| 25 | CLA | 4 | 311 | X | - | - | - |
| 25 | CLA | 4 | 312 | X | - | - | - |
| 25 | CLA | 4 | 313 | X | - | - | - |
| 25 | CLA | 5 | 302 | X | - | - | - |
| 25 | CLA | 5 | 304 | X | - | - | - |
| 25 | CLA | 5 | 305 | X | - | - | - |
| 25 | CLA | 5 | 306 | X | - | - | - |
| 25 | CLA | 5 | 309 | X | - | - | - |
| 25 | CLA | 5 | 310 | X | - | - | - |
| 25 | CLA | 5 | 311 | X | - | - | - |
| 25 | CLA | 5 | 312 | X | - | - | - |
| 25 | CLA | 5 | 313 | X | - | - | - |
| 25 | CLA | 5 | 314 | X | - | - | - |
| 25 | CLA | 5 | 315 | X | - | - | - |
| 25 | CLA | 5 | 316 | X | - | - | - |
| 25 | CLA | 5 | 324 | X | - | - | - |
| 25 | CLA | 6 | 601 | X | - | - | - |
| 25 | CLA | 6 | 603 | X | - | - | - |
| 25 | CLA | 6 | 604 | X | - | - | - |
| 25 | CLA | 6 | 605 | X | - | - | - |
| 25 | CLA | 6 | 609 | X | - | - | - |
| 25 | CLA | 6 | 610 | X | - | - | - |
| 25 | CLA | 6 | 611 | X | - | - | - |
| 25 | CLA | 6 | 612 | X | - | - | - |
| 25 | CLA | 6 | 613 | X | - | - | - |
| 25 | CLA | 6 | 614 | X | - | - | - |
| 25 | CLA | 6 | 615 | X | - | - | - |
| 25 | CLA | 6 | 616 | X | - | - | - |
| 25 | CLA | 6 | 620 | X | - | - | - |
| 25 | CLA | 6 | 623 | X | - | - | - |
| 25 | CLA | 7 | 301 | X | - | - | - |
| 25 | CLA | 7 | 302 | X | - | - | - |
| 25 | CLA | 7 | 303 | X | - | - | - |
| 25 | CLA | 7 | 304 | X | - | - | - |
| 25 | CLA | 7 | 306 | X | - | - | - |
| 25 | CLA | 7 | 307 | X | - | - | - |
| 25 | CLA | 7 | 308 | X | - | - | - |
| 25 | CLA | 7 | 309 | X | - | - | - |
| 25 | CLA | 7 | 310 | X | - | - | - |
| 25 | CLA | 7 | 311 | X | - | - | - |
| 25 | CLA | 7 | 312 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | 7 | 313 | X | - | - | - |
| 25 | CLA | 8 | 302 | X | - | - | - |
| 25 | CLA | 8 | 303 | X | - | - | - |
| 25 | CLA | 8 | 304 | X | - | - | - |
| 25 | CLA | 8 | 305 | X | - | - | - |
| 25 | CLA | 8 | 306 | X | - | - | - |
| 25 | CLA | 8 | 308 | X | - | - | - |
| 25 | CLA | 8 | 309 | X | - | - | - |
| 25 | CLA | 8 | 310 | X | - | - | - |
| 25 | CLA | 8 | 311 | X | - | - | - |
| 25 | CLA | 8 | 312 | X | - | - | - |
| 25 | CLA | 8 | 313 | X | - | - | - |
| 25 | CLA | 8 | 314 | X | - | - | - |
| 25 | CLA | 8 | 315 | X | - | - | - |
| 25 | CLA | 9 | 301 | X | - | - | - |
| 25 | CLA | 9 | 302 | X | - | - | - |
| 25 | CLA | 9 | 303 | X | - | - | - |
| 25 | CLA | 9 | 304 | X | - | - | - |
| 25 | CLA | 9 | 305 | X | - | - | - |
| 25 | CLA | 9 | 308 | X | - | - | - |
| 25 | CLA | 9 | 309 | X | - | - | - |
| 25 | CLA | 9 | 310 | X | - | - | - |
| 25 | CLA | 9 | 311 | X | - | - | - |
| 25 | CLA | A | 801 | X | - | - | - |
| 25 | CLA | A | 802 | X | - | - | - |
| 25 | CLA | A | 803 | X | - | - | - |
| 25 | CLA | A | 804 | X | - | - | - |
| 25 | CLA | A | 805 | X | - | - | - |
| 25 | CLA | A | 806 | X | - | - | - |
| 25 | CLA | A | 807 | X | - | - | - |
| 25 | CLA | A | 808 | X | - | - | - |
| 25 | CLA | A | 809 | X | - | - | - |
| 25 | CLA | A | 810 | X | - | - | - |
| 25 | CLA | A | 811 | X | - | - | - |
| 25 | CLA | A | 812 | X | - | - | - |
| 25 | CLA | A | 813 | X | - | - | - |
| 25 | CLA | A | 814 | X | - | - | - |
| 25 | CLA | A | 815 | X | - | - | - |
| 25 | CLA | A | 816 | X | - | - | - |
| 25 | CLA | A | 817 | X | - | - | - |
| 25 | CLA | A | 818 | X | - | - | - |
| 25 | CLA | A | 819 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | A | 820 | X | - | - | - |
| 25 | CLA | A | 821 | X | - | - | - |
| 25 | CLA | A | 822 | X | - | - | - |
| 25 | CLA | A | 823 | X | - | - | - |
| 25 | CLA | A | 824 | X | - | - | - |
| 25 | CLA | A | 825 | X | - | - | - |
| 25 | CLA | A | 826 | X | - | - | - |
| 25 | CLA | A | 827 | X | - | - | - |
| 25 | CLA | A | 828 | X | - | - | - |
| 25 | CLA | A | 829 | X | - | - | - |
| 25 | CLA | A | 830 | X | - | - | - |
| 25 | CLA | A | 831 | X | - | - | - |
| 25 | CLA | A | 832 | X | - | - | - |
| 25 | CLA | A | 833 | X | - | - | - |
| 25 | CLA | A | 834 | X | - | - | - |
| 25 | CLA | A | 835 | X | - | - | - |
| 25 | CLA | A | 836 | X | - | - | - |
| 25 | CLA | A | 837 | X | - | - | - |
| 25 | CLA | A | 838 | X | - | - | - |
| 25 | CLA | A | 839 | X | - | - | - |
| 25 | CLA | A | 840 | X | - | - | - |
| 25 | CLA | A | 842 | X | - | - | - |
| 25 | CLA | A | 851 | X | - | - | - |
| 25 | CLA | A | 853 | X | - | - | - |
| 25 | CLA | B | 801 | X | - | - | - |
| 25 | CLA | B | 802 | X | - | - | - |
| 25 | CLA | B | 803 | X | - | - | - |
| 25 | CLA | B | 804 | X | - | - | - |
| 25 | CLA | B | 805 | X | - | - | - |
| 25 | CLA | B | 806 | X | - | - | - |
| 25 | CLA | B | 807 | X | - | - | - |
| 25 | CLA | B | 808 | X | - | - | - |
| 25 | CLA | B | 809 | X | - | - | - |
| 25 | CLA | B | 810 | X | - | - | - |
| 25 | CLA | B | 811 | X | - | - | - |
| 25 | CLA | B | 812 | X | - | - | - |
| 25 | CLA | B | 813 | X | - | - | - |
| 25 | CLA | B | 814 | X | - | - | - |
| 25 | CLA | B | 815 | X | - | - | - |
| 25 | CLA | B | 816 | X | - | - | - |
| 25 | CLA | B | 817 | X | - | - | - |
| 25 | CLA | B | 818 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | B | 819 | X | - | - | - |
| 25 | CLA | B | 820 | X | - | - | - |
| 25 | CLA | B | 821 | X | - | - | - |
| 25 | CLA | B | 822 | X | - | - | - |
| 25 | CLA | B | 823 | X | - | - | - |
| 25 | CLA | B | 824 | X | - | - | - |
| 25 | CLA | B | 825 | X | - | - | - |
| 25 | CLA | B | 826 | X | - | - | - |
| 25 | CLA | B | 827 | X | - | - | - |
| 25 | CLA | B | 828 | X | - | - | - |
| 25 | CLA | B | 829 | X | - | - | - |
| 25 | CLA | B | 830 | X | - | - | - |
| 25 | CLA | B | 831 | X | - | - | - |
| 25 | CLA | B | 832 | X | - | - | - |
| 25 | CLA | B | 833 | X | - | - | - |
| 25 | CLA | B | 834 | X | - | - | - |
| 25 | CLA | B | 835 | X | - | - | - |
| 25 | CLA | B | 836 | X | - | - | - |
| 25 | CLA | B | 837 | X | - | - | - |
| 25 | CLA | B | 838 | X | - | - | - |
| 25 | CLA | B | 849 | X | - | - | - |
| 25 | CLA | F | 802 | X | - | - | - |
| 25 | CLA | G | 201 | X | - | - | - |
| 25 | CLA | G | 202 | X | - | - | - |
| 25 | CLA | H | 201 | X | - | - | - |
| 25 | CLA | H | 202 | X | - | - | - |
| 25 | CLA | H | 203 | X | - | - | - |
| 25 | CLA | H | 205 | X | - | - | - |
| 25 | CLA | J | 103 | X | - | - | - |
| 25 | CLA | J | 105 | X | - | - | - |
| 25 | CLA | K | 201 | X | - | - | - |
| 25 | CLA | K | 202 | X | - | - | - |
| 25 | CLA | K | 203 | X | - | - | - |
| 25 | CLA | K | 204 | X | - | - | - |
| 25 | CLA | K | 205 | X | - | - | - |
| 25 | CLA | L | 201 | X | - | - | - |
| 25 | CLA | L | 202 | X | - | - | - |
| 25 | CLA | L | 205 | X | - | - | - |
| 25 | CLA | L | 206 | X | - | - | - |
| 25 | CLA | L | 209 | X | - | - | - |
| 25 | CLA | O | 201 | X | - | - | - |
| 25 | CLA | O | 202 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | O | 203 | X | - | - | - |
| 25 | CLA | P | 602 | X | - | - | - |
| 25 | CLA | P | 603 | X | - | - | - |
| 25 | CLA | P | 604 | X | - | - | - |
| 25 | CLA | P | 610 | X | - | - | - |
| 25 | CLA | P | 611 | X | - | - | - |
| 25 | CLA | P | 612 | X | - | - | - |
| 25 | CLA | P | 613 | X | - | - | - |
| 25 | CLA | Q | 602 | X | - | - | - |
| 25 | CLA | Q | 603 | X | - | - | - |
| 25 | CLA | Q | 604 | X | - | - | - |
| 25 | CLA | Q | 609 | X | - | - | - |
| 25 | CLA | Q | 610 | X | - | - | - |
| 25 | CLA | Q | 611 | X | - | - | - |
| 25 | CLA | Q | 612 | X | - | - | - |
| 25 | CLA | Q | 613 | X | - | - | - |
| 25 | CLA | R | 602 | X | - | - | - |
| 25 | CLA | R | 603 | X | - | - | - |
| 25 | CLA | R | 604 | X | - | - | - |
| 25 | CLA | R | 610 | X | - | - | - |
| 25 | CLA | R | 611 | X | - | - | - |
| 25 | CLA | R | 612 | X | - | - | - |
| 25 | CLA | R | 613 | X | - | - | - |
| 25 | CLA | R | 614 | X | - | - | - |
| 25 | CLA | S | 301 | X | - | - | - |
| 25 | CLA | S | 303 | X | - | - | - |
| 25 | CLA | S | 304 | X | - | - | - |
| 25 | CLA | S | 305 | X | - | - | - |
| 25 | CLA | S | 311 | X | - | - | - |
| 25 | CLA | S | 312 | X | - | - | - |
| 25 | CLA | S | 313 | X | - | - | - |
| 25 | CLA | S | 315 | X | - | - | - |
| 25 | CLA | S | 320 | X | - | - | - |
| 25 | CLA | T | 602 | X | - | - | - |
| 25 | CLA | T | 603 | X | - | - | - |
| 25 | CLA | T | 608 | X | - | - | - |
| 25 | CLA | T | 610 | X | - | - | - |
| 25 | CLA | T | 611 | X | - | - | - |
| 25 | CLA | T | 612 | X | - | - | - |
| 25 | CLA | U | 302 | X | - | - | - |
| 25 | CLA | U | 303 | X | - | - | - |
| 25 | CLA | U | 304 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 25 | CLA | U | 310 | X | - | - | - |
| 25 | CLA | U | 311 | X | - | - | - |
| 25 | CLA | U | 312 | X | - | - | - |
| 25 | CLA | U | 313 | X | - | - | - |
| 25 | CLA | a | 301 | X | - | - | - |
| 25 | CLA | a | 302 | X | - | - | - |
| 25 | CLA | a | 303 | X | - | - | - |
| 25 | CLA | a | 304 | X | - | - | - |
| 25 | CLA | a | 306 | X | - | - | - |
| 25 | CLA | a | 307 | X | - | - | - |
| 25 | CLA | a | 308 | X | - | - | - |
| 25 | CLA | a | 309 | X | - | - | - |
| 25 | CLA | a | 310 | X | - | - | - |
| 25 | CLA | a | 311 | X | - | - | - |
| 25 | CLA | a | 312 | X | - | - | - |
| 25 | CLA | a | 313 | X | - | - | - |
| 33 | CHL | 1 | 601 | X | - | - | - |
| 33 | CHL | 1 | 606 | X | - | - | - |
| 33 | CHL | 3 | 306 | X | - | - | - |
| 33 | CHL | 4 | 304 | X | - | - | - |
| 33 | CHL | 4 | 305 | X | - | - | - |
| 33 | CHL | 4 | 306 | X | - | - | - |
| 33 | CHL | 4 | 314 | X | - | - | - |
| 33 | CHL | 4 | 322 | X | - | - | - |
| 33 | CHL | 5 | 307 | X | - | - | - |
| 33 | CHL | 5 | 308 | X | - | - | - |
| 33 | CHL | 5 | 317 | X | - | - | - |
| 33 | CHL | 6 | 606 | X | - | - | - |
| 33 | CHL | 6 | 607 | X | - | - | - |
| 33 | CHL | 6 | 608 | X | - | - | - |
| 33 | CHL | 6 | 617 | X | - | - | - |
| 33 | CHL | 7 | 305 | X | - | - | - |
| 33 | CHL | 8 | 307 | X | - | - | - |
| 33 | CHL | 9 | 306 | X | - | - | - |
| 33 | CHL | 9 | 307 | X | - | - | - |
| 33 | CHL | P | 601 | X | - | - | - |
| 33 | CHL | P | 605 | X | - | - | - |
| 33 | CHL | P | 606 | X | - | - | - |
| 33 | CHL | P | 607 | X | - | - | - |
| 33 | CHL | P | 608 | X | - | - | - |
| 33 | CHL | P | 609 | X | - | - | - |
| 33 | CHL | P | 619 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 33 | CHL | P | 622 | X | - | - | - |
| 33 | CHL | Q | 601 | X | - | - | - |
| 33 | CHL | Q | 605 | X | - | - | - |
| 33 | CHL | Q | 606 | X | - | - | - |
| 33 | CHL | Q | 607 | X | - | - | - |
| 33 | CHL | Q | 608 | X | - | - | - |
| 33 | CHL | R | 601 | X | - | - | - |
| 33 | CHL | R | 605 | X | - | - | - |
| 33 | CHL | R | 606 | X | - | - | - |
| 33 | CHL | R | 607 | X | - | - | - |
| 33 | CHL | R | 608 | X | - | - | - |
| 33 | CHL | R | 609 | X | - | - | - |
| 33 | CHL | S | 302 | X | - | - | - |
| 33 | CHL | S | 306 | X | - | - | - |
| 33 | CHL | S | 307 | X | - | - | - |
| 33 | CHL | S | 308 | X | - | - | - |
| 33 | CHL | S | 309 | X | - | - | - |
| 33 | CHL | S | 310 | X | - | - | - |
| 33 | CHL | S | 321 | X | - | - | - |
| 33 | CHL | T | 601 | X | - | - | - |
| 33 | CHL | T | 604 | X | - | - | - |
| 33 | CHL | T | 605 | X | - | - | - |
| 33 | CHL | T | 606 | X | - | - | - |
| 33 | CHL | T | 607 | X | - | - | - |
| 33 | CHL | U | 305 | X | - | - | - |
| 33 | CHL | U | 306 | X | - | - | - |
| 33 | CHL | U | 307 | X | - | - | - |
| 33 | CHL | U | 308 | X | - | - | - |
| 33 | CHL | U | 309 | X | - | - | - |
| 33 | CHL | a | 305 | X | - | - | - |

2 Entry composition i

There are 36 unique types of molecules in this entry. The entry contains 68860 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 Photosystem I P700 chlorophyll a apoprotein A1.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 1 | A | 740 | 5811 | 3799 | 991 | 999 | 22 | 0 | 0 |

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|------|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 2 | B | 734 | 5828 | 3827 | 978 | 1005 | 18 | 0 | 0 |

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 3 | C | 80 | 600 | 369 | 103 | 116 | 12 | 0 | 0 |

- Molecule 4 is a protein called Photosystem I reaction center subunit II, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 4 | D | 144 | 1132 | 725 | 200 | 200 | 7 | 0 | 0 |

- Molecule 5 is a protein called Photosystem I reaction center subunit IV, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
| | | | Total | C | N | O | | |
| 5 | E | 63 | 496 | 316 | 87 | 93 | 0 | 0 |

- Molecule 6 is a protein called Photosystem I reaction center subunit F, Photosystem I reaction center subunit III, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 6 | F | 165 | 1265 | 817 | 213 | 232 | 3 | 0 | 0 |

- Molecule 7 is a protein called Photosystem I reaction center subunit V, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|-------|
| | | | Total | C | N | O | | |
| 7 | G | 91 | 678 | 436 | 114 | 128 | 0 | 0 |

- Molecule 8 is a protein called Photosystem I reaction center subunit VI, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 8 | H | 100 | 773 | 479 | 138 | 154 | 2 | 0 | 0 |

- Molecule 9 is a protein called Photosystem I reaction center subunit VIII.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 9 | I | 37 | 281 | 195 | 39 | 46 | 1 | 0 | 0 |

- Molecule 10 is a protein called Photosystem I reaction center subunit IX.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 10 | J | 41 | 337 | 231 | 47 | 58 | 1 | 0 | 0 |

- Molecule 11 is a protein called Photosystem I reaction center subunit psaK, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 11 | K | 85 | 578 | 368 | 99 | 109 | 2 | 0 | 0 |

- Molecule 12 is a protein called PSI subunit V.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 12 | L | 159 | 1161 | 757 | 189 | 212 | 3 | 0 | 0 |

- Molecule 13 is a protein called Photosystem I subunit O.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|-------|
| | | | Total | C | N | O | | |
| 13 | O | 93 | 720 | 477 | 118 | 125 | 0 | 0 |

- Molecule 14 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| 14 | P | 219 | Total | C | N | O | S | 0 | 0 |
| | | | 1669 | 1080 | 272 | 314 | 3 | | |
| 14 | Q | 219 | Total | C | N | O | S | 0 | 0 |
| | | | 1669 | 1080 | 272 | 314 | 3 | | |
| 14 | R | 219 | Total | C | N | O | S | 0 | 0 |
| | | | 1669 | 1080 | 272 | 314 | 3 | | |
| 14 | T | 219 | Total | C | N | O | S | 0 | 0 |
| | | | 1669 | 1080 | 272 | 314 | 3 | | |
| 14 | U | 219 | Total | C | N | O | S | 0 | 0 |
| | | | 1669 | 1080 | 272 | 314 | 3 | | |

- Molecule 15 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace | |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|---|
| 15 | S | 233 | Total | C | N | O | P | S | 0 | 0 |
| | | | 1717 | 1098 | 285 | 328 | 1 | 5 | | |

- Molecule 16 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 16 | 1 | 194 | Total | C | N | O | S | 0 | 0 |
| | | | 1444 | 941 | 240 | 260 | 3 | | |
| 16 | a | 194 | Total | C | N | O | S | 0 | 0 |
| | | | 1444 | 941 | 240 | 260 | 3 | | |

- Molecule 17 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| 17 | 2 | 201 | Total | C | N | O | S | 0 | 0 |
| | | | 1545 | 1002 | 253 | 280 | 10 | | |

- Molecule 18 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| 18 | 3 | 203 | Total | C | N | O | S | 0 | 0 |
| | | | 1560 | 1021 | 253 | 278 | 8 | | |

- Molecule 19 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| 19 | 4 | 205 | Total | C | N | O | S | 0 | 0 |
| | | | 1590 | 1046 | 254 | 285 | 5 | | |

- Molecule 20 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 20 | 5 | 225 | 1757 | 1145 | 294 | 310 | 8 | 0 | 0 |

- Molecule 21 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 21 | 6 | 230 | 1771 | 1167 | 293 | 305 | 6 | 0 | 0 |

- Molecule 22 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 22 | 7 | 212 | 1644 | 1067 | 274 | 297 | 6 | 0 | 0 |

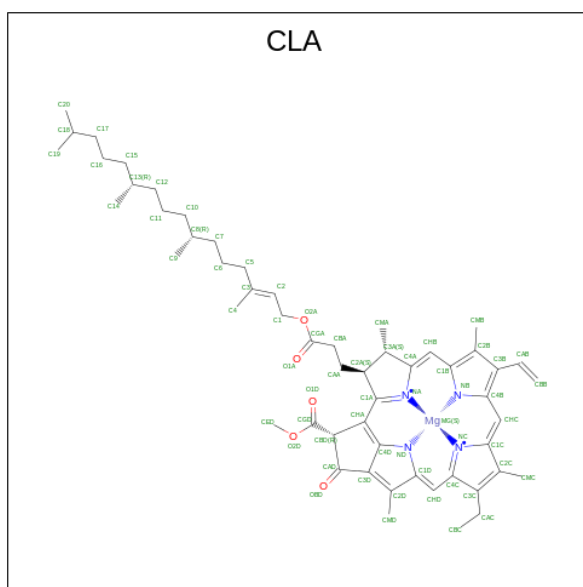
- Molecule 23 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 23 | 8 | 217 | 1649 | 1073 | 280 | 292 | 4 | 0 | 0 |

- Molecule 24 is a protein called Chlorophyll a-b binding protein, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 24 | 9 | 182 | 1392 | 903 | 231 | 251 | 7 | 0 | 0 |

- Molecule 25 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|------|----|-----|-----|---------|
| | | | Total | C | Mg | N | O | |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |
| 25 | A | 1 | 2638 | 2208 | 43 | 172 | 215 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|---------------|-----------|----------|----------|----------|---------|
| | | | Total | C | Mg | N | O | |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | A | 1 | Total 2638 | C 2208 | Mg 43 | N 172 | O 215 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|---------------|-----------|----------|----------|----------|---------|
| | | | Total | C | Mg | N | O | |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | B | 1 | Total 2368 | C 1978 | Mg 39 | N 156 | O 195 | 0 |
| 25 | F | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 |
| 25 | G | 1 | Total 96 | C 76 | Mg 2 | N 8 | O 10 | 0 |
| 25 | G | 1 | Total 96 | C 76 | Mg 2 | N 8 | O 10 | 0 |
| 25 | H | 1 | Total 175 | C 139 | Mg 4 | N 16 | O 16 | 0 |
| 25 | H | 1 | Total 175 | C 139 | Mg 4 | N 16 | O 16 | 0 |
| 25 | H | 1 | Total 175 | C 139 | Mg 4 | N 16 | O 16 | 0 |
| 25 | H | 1 | Total 175 | C 139 | Mg 4 | N 16 | O 16 | 0 |
| 25 | J | 1 | Total 100 | C 82 | Mg 2 | N 8 | O 8 | 0 |
| 25 | J | 1 | Total 100 | C 82 | Mg 2 | N 8 | O 8 | 0 |
| 25 | K | 1 | Total 232 | C 182 | Mg 5 | N 20 | O 25 | 0 |
| 25 | K | 1 | Total 232 | C 182 | Mg 5 | N 20 | O 25 | 0 |
| 25 | K | 1 | Total 232 | C 182 | Mg 5 | N 20 | O 25 | 0 |
| 25 | K | 1 | Total 232 | C 182 | Mg 5 | N 20 | O 25 | 0 |
| 25 | K | 1 | Total 232 | C 182 | Mg 5 | N 20 | O 25 | 0 |
| 25 | L | 1 | Total 278 | C 232 | Mg 5 | N 20 | O 21 | 0 |
| 25 | L | 1 | Total 278 | C 232 | Mg 5 | N 20 | O 21 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| 25 | L | 1 | Total | C | Mg | N | O | 0 |
| | | | 278 | 232 | 5 | 20 | 21 | |
| 25 | L | 1 | Total | C | Mg | N | O | 0 |
| | | | 278 | 232 | 5 | 20 | 21 | |
| 25 | L | 1 | Total | C | Mg | N | O | 0 |
| | | | 278 | 232 | 5 | 20 | 21 | |
| 25 | O | 1 | Total | C | Mg | N | O | 0 |
| | | | 117 | 93 | 3 | 12 | 9 | |
| 25 | O | 1 | Total | C | Mg | N | O | 0 |
| | | | 117 | 93 | 3 | 12 | 9 | |
| 25 | O | 1 | Total | C | Mg | N | O | 0 |
| | | | 117 | 93 | 3 | 12 | 9 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 399 | 331 | 7 | 28 | 33 | |
| 25 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 493 | 407 | 9 | 36 | 41 | |
| 25 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 493 | 407 | 9 | 36 | 41 | |
| 25 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 493 | 407 | 9 | 36 | 41 | |
| 25 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 493 | 407 | 9 | 36 | 41 | |
| 25 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 493 | 407 | 9 | 36 | 41 | |
| 25 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 493 | 407 | 9 | 36 | 41 | |
| 25 | Q | 1 | Total | C | Mg | N | O | 0 |
| | | | 493 | 407 | 9 | 36 | 41 | |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|--------------|----------|----------|---------|---------|---------|
| | | | Total | C | Mg | N | O | |
| 25 | Q | 1 | Total 493 | C 407 | Mg 9 | N 36 | O 41 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | R | 1 | Total 477 | C 397 | Mg 8 | N 32 | O 40 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | S | 1 | Total 585 | C 485 | Mg 10 | N 40 | O 50 | 0 |
| 25 | T | 1 | Total 408 | C 338 | Mg 7 | N 28 | O 35 | 0 |
| 25 | T | 1 | Total 408 | C 338 | Mg 7 | N 28 | O 35 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| 25 | T | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 338 | 7 | 28 | 35 | |
| 25 | T | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 338 | 7 | 28 | 35 | |
| 25 | T | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 338 | 7 | 28 | 35 | |
| 25 | T | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 338 | 7 | 28 | 35 | |
| 25 | U | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 341 | 7 | 28 | 32 | |
| 25 | U | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 341 | 7 | 28 | 32 | |
| 25 | U | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 341 | 7 | 28 | 32 | |
| 25 | U | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 341 | 7 | 28 | 32 | |
| 25 | U | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 341 | 7 | 28 | 32 | |
| 25 | U | 1 | Total | C | Mg | N | O | 0 |
| | | | 408 | 341 | 7 | 28 | 32 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |
| 25 | 1 | 1 | Total | C | Mg | N | O | 0 |
| | | | 722 | 602 | 12 | 48 | 60 | |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| | | | Total | C | Mg | N | O | |
| 25 | 1 | 1 | 722 | 602 | 12 | 48 | 60 | 0 |
| 25 | 1 | 1 | 722 | 602 | 12 | 48 | 60 | 0 |
| 25 | 1 | 1 | 722 | 602 | 12 | 48 | 60 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 2 | 1 | 681 | 557 | 13 | 52 | 59 | 0 |
| 25 | 3 | 1 | 761 | 625 | 14 | 56 | 66 | 0 |
| 25 | 3 | 1 | 761 | 625 | 14 | 56 | 66 | 0 |
| 25 | 3 | 1 | 761 | 625 | 14 | 56 | 66 | 0 |
| 25 | 3 | 1 | 761 | 625 | 14 | 56 | 66 | 0 |
| 25 | 3 | 1 | 761 | 625 | 14 | 56 | 66 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 3 | 1 | Total | C | Mg | N | O | 0 |
| | | | 761 | 625 | 14 | 56 | 66 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 4 | 1 | Total | C | Mg | N | O | 0 |
| | | | 515 | 417 | 10 | 40 | 48 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 5 | 1 | Total | C | Mg | N | O | 0 |
| | | | 799 | 651 | 15 | 60 | 73 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |
| 25 | 6 | 1 | Total | C | Mg | N | O | 0 |
| | | | 752 | 612 | 14 | 56 | 70 | |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| | | | Total | C | Mg | N | O | |
| 25 | 6 | 1 | 752 | 612 | 14 | 56 | 70 | 0 |
| 25 | 6 | 1 | 752 | 612 | 14 | 56 | 70 | 0 |
| 25 | 6 | 1 | 752 | 612 | 14 | 56 | 70 | 0 |
| 25 | 6 | 1 | 752 | 612 | 14 | 56 | 70 | 0 |
| 25 | 6 | 1 | 752 | 612 | 14 | 56 | 70 | 0 |
| 25 | 6 | 1 | 752 | 612 | 14 | 56 | 70 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 7 | 1 | 616 | 502 | 12 | 48 | 54 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |

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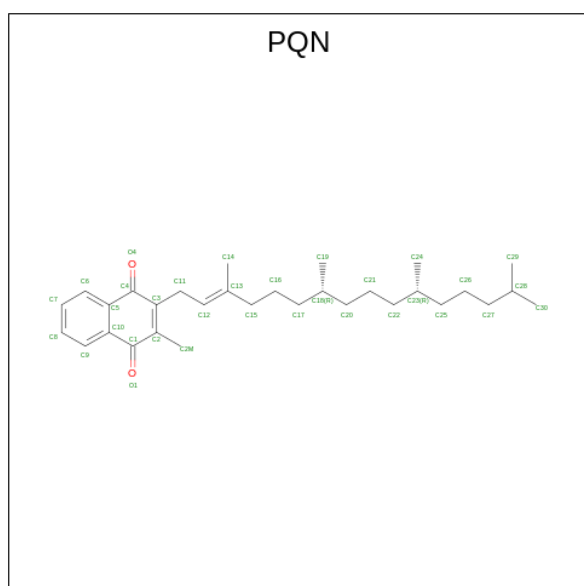
| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| | | | Total | C | Mg | N | O | |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 8 | 1 | 680 | 552 | 13 | 52 | 63 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | 9 | 1 | 461 | 371 | 9 | 36 | 45 | 0 |
| 25 | a | 1 | 714 | 594 | 12 | 48 | 60 | 0 |
| 25 | a | 1 | 714 | 594 | 12 | 48 | 60 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|--------------|----------|----------|---------|---------|---------|
| | | | Total | C | Mg | N | O | |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |
| 25 | a | 1 | Total 714 | C 594 | Mg 12 | N 48 | O 60 | 0 |

- Molecule 26 is PHYLLOQUINONE (three-letter code: PQN) (formula: C₃₁H₄₆O₂).



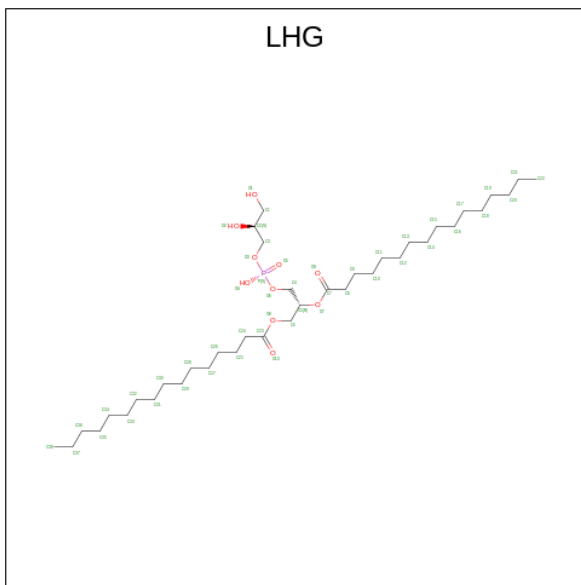
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------------|---------|--------|---------|
| | | | Total | C | O | |
| 26 | A | 1 | Total 33 | C 31 | O 2 | 0 |

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| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 26 | B | 1 | 33 | 31 | 2 | 0 |

- Molecule 27 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



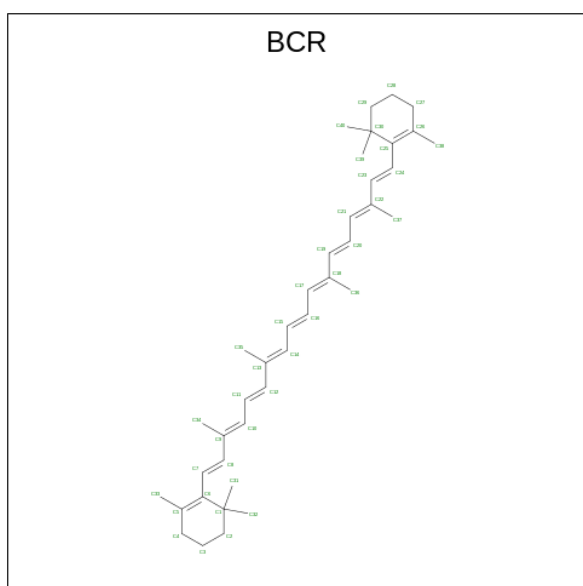
| Mol | Chain | Residues | Atoms | | | | AltConf |
|-----|-------|----------|-------|-----|----|---|---------|
| | | | Total | C | O | P | |
| 27 | A | 1 | 135 | 102 | 30 | 3 | 0 |
| 27 | A | 1 | 135 | 102 | 30 | 3 | 0 |
| 27 | A | 1 | 135 | 102 | 30 | 3 | 0 |
| 27 | B | 1 | 38 | 27 | 10 | 1 | 0 |
| 27 | P | 1 | 98 | 76 | 20 | 2 | 0 |
| 27 | P | 1 | 98 | 76 | 20 | 2 | 0 |
| 27 | Q | 1 | 49 | 38 | 10 | 1 | 0 |
| 27 | R | 1 | 49 | 38 | 10 | 1 | 0 |
| 27 | S | 1 | 49 | 38 | 10 | 1 | 0 |
| 27 | T | 1 | 49 | 38 | 10 | 1 | 0 |

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| Mol | Chain | Residues | Atoms | | | | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|---------|
| | | | Total | C | O | P | |
| 27 | 1 | 1 | Total 43 | C 32 | O 10 | P 1 | 0 |
| 27 | 2 | 1 | Total 49 | C 38 | O 10 | P 1 | 0 |
| 27 | 4 | 1 | Total 81 | C 59 | O 20 | P 2 | 0 |
| 27 | 4 | 1 | Total 81 | C 59 | O 20 | P 2 | 0 |
| 27 | 5 | 1 | Total 82 | C 60 | O 20 | P 2 | 0 |
| 27 | 5 | 1 | Total 82 | C 60 | O 20 | P 2 | 0 |
| 27 | 6 | 1 | Total 49 | C 38 | O 10 | P 1 | 0 |
| 27 | 7 | 1 | Total 37 | C 26 | O 10 | P 1 | 0 |
| 27 | 8 | 1 | Total 49 | C 38 | O 10 | P 1 | 0 |
| 27 | a | 1 | Total 43 | C 32 | O 10 | P 1 | 0 |

- Molecule 28 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



| Mol | Chain | Residues | Atoms | | AltConf |
|-----|-------|----------|--------------|----------|---------|
| 28 | A | 1 | Total 240 | C 240 | 0 |

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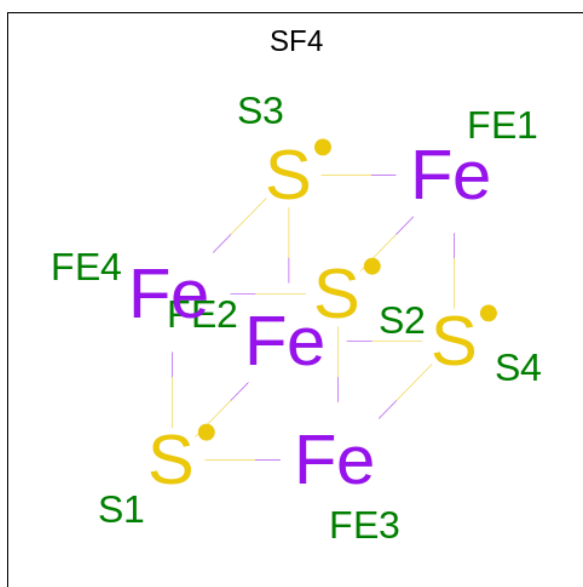
| Mol | Chain | Residues | Atoms | | AltConf |
|-----|-------|----------|--------------|----------|---------|
| 28 | A | 1 | Total 240 | C 240 | 0 |
| 28 | A | 1 | Total 240 | C 240 | 0 |
| 28 | A | 1 | Total 240 | C 240 | 0 |
| 28 | A | 1 | Total 240 | C 240 | 0 |
| 28 | A | 1 | Total 240 | C 240 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | B | 1 | Total 280 | C 280 | 0 |
| 28 | F | 1 | Total 80 | C 80 | 0 |
| 28 | F | 1 | Total 80 | C 80 | 0 |
| 28 | G | 1 | Total 40 | C 40 | 0 |
| 28 | I | 1 | Total 40 | C 40 | 0 |
| 28 | J | 1 | Total 80 | C 80 | 0 |
| 28 | J | 1 | Total 80 | C 80 | 0 |
| 28 | K | 1 | Total 40 | C 40 | 0 |
| 28 | L | 1 | Total 160 | C 160 | 0 |
| 28 | L | 1 | Total 160 | C 160 | 0 |

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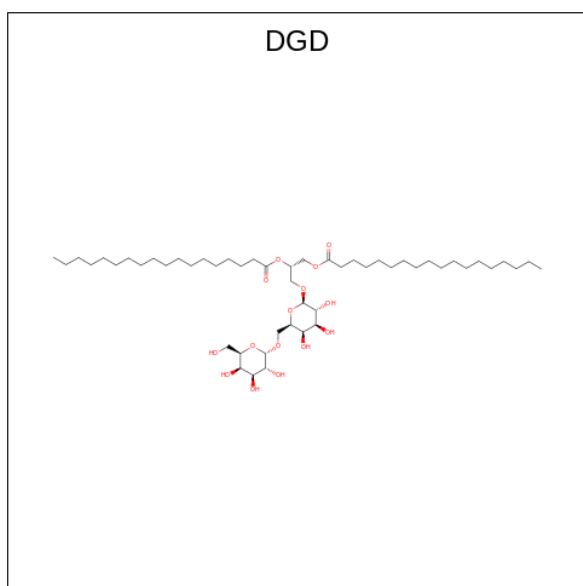
| Mol | Chain | Residues | Atoms | | AltConf |
|-----|-------|----------|--------------|----------|---------|
| 28 | L | 1 | Total 160 | C 160 | 0 |
| 28 | L | 1 | Total 160 | C 160 | 0 |
| 28 | O | 1 | Total 80 | C 80 | 0 |
| 28 | O | 1 | Total 80 | C 80 | 0 |
| 28 | 3 | 1 | Total 120 | C 120 | 0 |
| 28 | 3 | 1 | Total 120 | C 120 | 0 |
| 28 | 3 | 1 | Total 120 | C 120 | 0 |
| 28 | 4 | 1 | Total 80 | C 80 | 0 |
| 28 | 4 | 1 | Total 80 | C 80 | 0 |
| 28 | 5 | 1 | Total 80 | C 80 | 0 |
| 28 | 5 | 1 | Total 80 | C 80 | 0 |
| 28 | 6 | 1 | Total 40 | C 40 | 0 |
| 28 | 7 | 1 | Total 40 | C 40 | 0 |
| 28 | 8 | 1 | Total 80 | C 80 | 0 |
| 28 | 8 | 1 | Total 80 | C 80 | 0 |

- Molecule 29 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



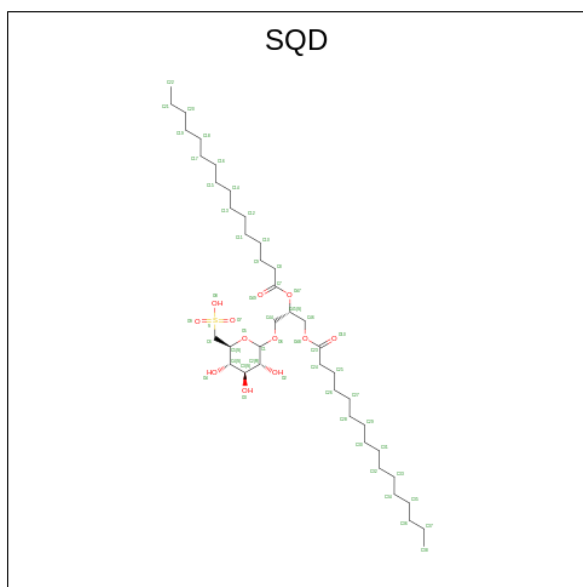
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | Fe | S | |
| 29 | A | 1 | 8 | 4 | 4 | 0 |
| 29 | C | 1 | 16 | 8 | 8 | 0 |
| 29 | C | 1 | 16 | 8 | 8 | 0 |

- Molecule 30 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



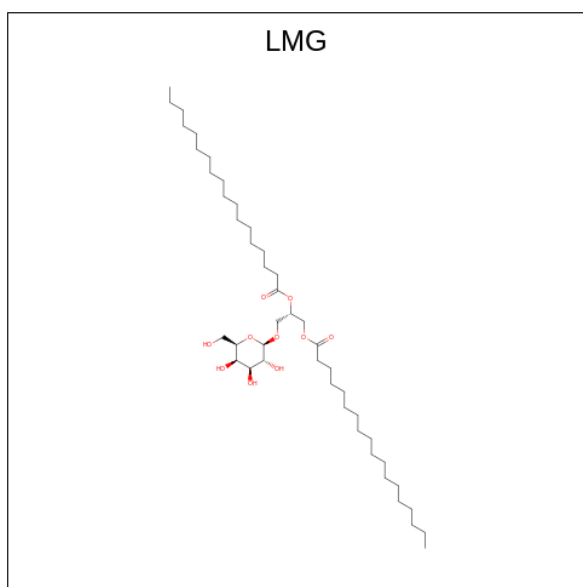
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|----|---------|
| 30 | B | 1 | Total | C | O | 0 |
| | | | 123 | 93 | 30 | |
| 30 | B | 1 | Total | C | O | 0 |
| | | | 123 | 93 | 30 | |

- Molecule 31 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: $C_{41}H_{78}O_{12}S$).



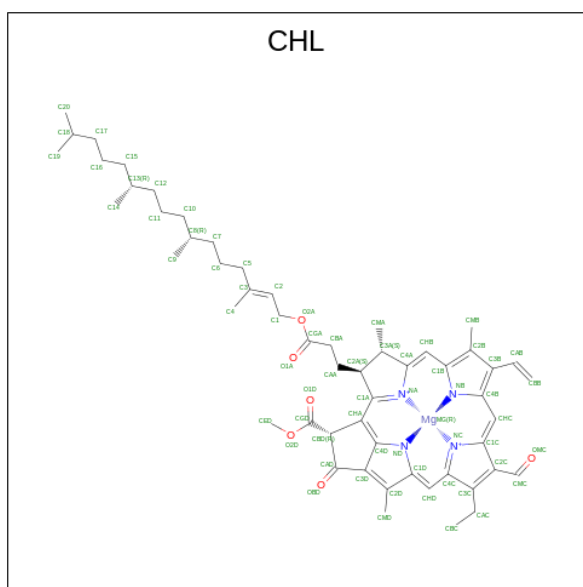
| Mol | Chain | Residues | Atoms | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---------|
| 31 | B | 1 | Total | C | O | S | 0 |
| | | | 51 | 38 | 12 | 1 | |

- Molecule 32 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|-----|----|---------|
| | | | Total | C | O | |
| 32 | H | 1 | 47 | 37 | 10 | 0 |
| 32 | J | 1 | 130 | 100 | 30 | 0 |
| 32 | J | 1 | 130 | 100 | 30 | 0 |
| 32 | J | 1 | 130 | 100 | 30 | 0 |
| 32 | 1 | 1 | 46 | 36 | 10 | 0 |
| 32 | 2 | 1 | 41 | 31 | 10 | 0 |
| 32 | 4 | 1 | 40 | 30 | 10 | 0 |
| 32 | 6 | 1 | 40 | 30 | 10 | 0 |
| 32 | 7 | 1 | 71 | 51 | 20 | 0 |
| 32 | 7 | 1 | 71 | 51 | 20 | 0 |

- Molecule 33 is CHLOROPHYLL B (three-letter code: CHL) (formula: $C_{55}H_{70}MgN_4O_6$).



| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|-----|----|----|----|---------|
| | | | Total | C | Mg | N | O | |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | P | 1 | 416 | 330 | 8 | 32 | 46 | 0 |
| 33 | Q | 1 | 253 | 202 | 5 | 20 | 26 | 0 |
| 33 | Q | 1 | 253 | 202 | 5 | 20 | 26 | 0 |
| 33 | Q | 1 | 253 | 202 | 5 | 20 | 26 | 0 |
| 33 | Q | 1 | 253 | 202 | 5 | 20 | 26 | 0 |
| 33 | Q | 1 | 253 | 202 | 5 | 20 | 26 | 0 |
| 33 | R | 1 | 309 | 245 | 6 | 24 | 34 | 0 |

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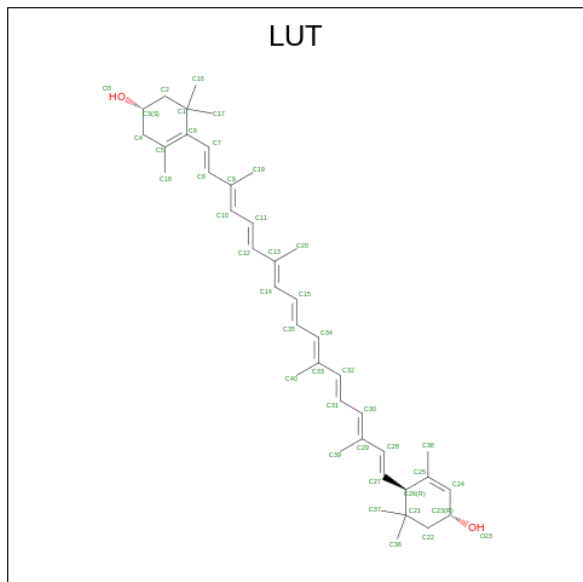
| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|---------|---------|
| | | | Total | C | Mg | N | O | |
| 33 | R | 1 | Total 309 | C 245 | Mg 6 | N 24 | O 34 | 0 |
| 33 | R | 1 | Total 309 | C 245 | Mg 6 | N 24 | O 34 | 0 |
| 33 | R | 1 | Total 309 | C 245 | Mg 6 | N 24 | O 34 | 0 |
| 33 | R | 1 | Total 309 | C 245 | Mg 6 | N 24 | O 34 | 0 |
| 33 | R | 1 | Total 309 | C 245 | Mg 6 | N 24 | O 34 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | S | 1 | Total 358 | C 281 | Mg 7 | N 28 | O 42 | 0 |
| 33 | T | 1 | Total 244 | C 191 | Mg 5 | N 20 | O 28 | 0 |
| 33 | T | 1 | Total 244 | C 191 | Mg 5 | N 20 | O 28 | 0 |
| 33 | T | 1 | Total 244 | C 191 | Mg 5 | N 20 | O 28 | 0 |
| 33 | T | 1 | Total 244 | C 191 | Mg 5 | N 20 | O 28 | 0 |
| 33 | T | 1 | Total 244 | C 191 | Mg 5 | N 20 | O 28 | 0 |
| 33 | U | 1 | Total 241 | C 188 | Mg 5 | N 20 | O 28 | 0 |
| 33 | U | 1 | Total 241 | C 188 | Mg 5 | N 20 | O 28 | 0 |
| 33 | U | 1 | Total 241 | C 188 | Mg 5 | N 20 | O 28 | 0 |
| 33 | U | 1 | Total 241 | C 188 | Mg 5 | N 20 | O 28 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|---------|---------|
| | | | Total | C | Mg | N | O | |
| 33 | U | 1 | Total 241 | C 188 | Mg 5 | N 20 | O 28 | 0 |
| 33 | 1 | 1 | Total 101 | C 79 | Mg 2 | N 8 | O 12 | 0 |
| 33 | 1 | 1 | Total 101 | C 79 | Mg 2 | N 8 | O 12 | 0 |
| 33 | 3 | 1 | Total 53 | C 42 | Mg 1 | N 4 | O 6 | 0 |
| 33 | 4 | 1 | Total 240 | C 189 | Mg 5 | N 20 | O 26 | 0 |
| 33 | 4 | 1 | Total 240 | C 189 | Mg 5 | N 20 | O 26 | 0 |
| 33 | 4 | 1 | Total 240 | C 189 | Mg 5 | N 20 | O 26 | 0 |
| 33 | 4 | 1 | Total 240 | C 189 | Mg 5 | N 20 | O 26 | 0 |
| 33 | 4 | 1 | Total 240 | C 189 | Mg 5 | N 20 | O 26 | 0 |
| 33 | 4 | 1 | Total 240 | C 189 | Mg 5 | N 20 | O 26 | 0 |
| 33 | 5 | 1 | Total 145 | C 114 | Mg 3 | N 12 | O 16 | 0 |
| 33 | 5 | 1 | Total 145 | C 114 | Mg 3 | N 12 | O 16 | 0 |
| 33 | 5 | 1 | Total 145 | C 114 | Mg 3 | N 12 | O 16 | 0 |
| 33 | 6 | 1 | Total 200 | C 158 | Mg 4 | N 16 | O 22 | 0 |
| 33 | 6 | 1 | Total 200 | C 158 | Mg 4 | N 16 | O 22 | 0 |
| 33 | 6 | 1 | Total 200 | C 158 | Mg 4 | N 16 | O 22 | 0 |
| 33 | 6 | 1 | Total 200 | C 158 | Mg 4 | N 16 | O 22 | 0 |
| 33 | 7 | 1 | Total 54 | C 43 | Mg 1 | N 4 | O 6 | 0 |
| 33 | 8 | 1 | Total 53 | C 42 | Mg 1 | N 4 | O 6 | 0 |
| 33 | 9 | 1 | Total 93 | C 73 | Mg 2 | N 8 | O 10 | 0 |
| 33 | 9 | 1 | Total 93 | C 73 | Mg 2 | N 8 | O 10 | 0 |
| 33 | a | 1 | Total 48 | C 37 | Mg 1 | N 4 | O 6 | 0 |

- Molecule 34 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (three-letter code: LUT) (formula: C₄₀H₅₆O₂).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 34 | P | 1 | 84 | 80 | 4 | 0 |
| 34 | P | 1 | 84 | 80 | 4 | 0 |
| 34 | Q | 1 | 84 | 80 | 4 | 0 |
| 34 | Q | 1 | 84 | 80 | 4 | 0 |
| 34 | R | 1 | 84 | 80 | 4 | 0 |
| 34 | R | 1 | 84 | 80 | 4 | 0 |
| 34 | S | 1 | 84 | 80 | 4 | 0 |
| 34 | S | 1 | 84 | 80 | 4 | 0 |
| 34 | T | 1 | 84 | 80 | 4 | 0 |
| 34 | T | 1 | 84 | 80 | 4 | 0 |
| 34 | U | 1 | 84 | 80 | 4 | 0 |
| 34 | U | 1 | 84 | 80 | 4 | 0 |

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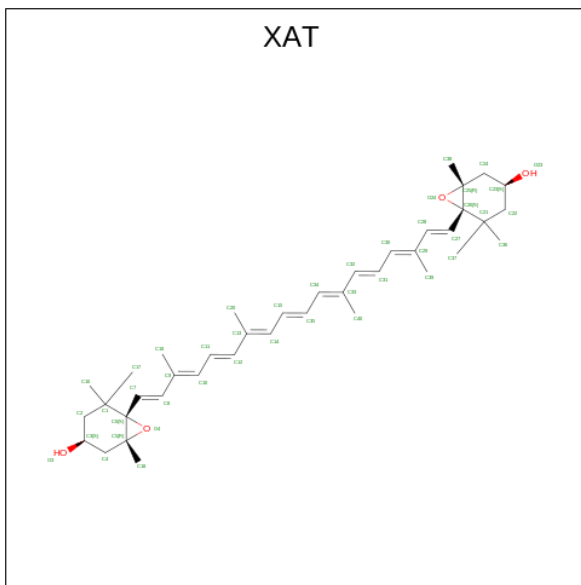
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|-----|---|---------|
| | | | Total | C | O | |
| 34 | 1 | 1 | 126 | 120 | 6 | 0 |
| 34 | 1 | 1 | 126 | 120 | 6 | 0 |
| 34 | 1 | 1 | 126 | 120 | 6 | 0 |
| 34 | 2 | 1 | 84 | 80 | 4 | 0 |
| 34 | 2 | 1 | 84 | 80 | 4 | 0 |
| 34 | 3 | 1 | 84 | 80 | 4 | 0 |
| 34 | 3 | 1 | 84 | 80 | 4 | 0 |
| 34 | 4 | 1 | 84 | 80 | 4 | 0 |
| 34 | 4 | 1 | 84 | 80 | 4 | 0 |
| 34 | 5 | 1 | 84 | 80 | 4 | 0 |
| 34 | 5 | 1 | 84 | 80 | 4 | 0 |
| 34 | 6 | 1 | 84 | 80 | 4 | 0 |
| 34 | 6 | 1 | 84 | 80 | 4 | 0 |
| 34 | 7 | 1 | 84 | 80 | 4 | 0 |
| 34 | 7 | 1 | 84 | 80 | 4 | 0 |
| 34 | 8 | 1 | 84 | 80 | 4 | 0 |
| 34 | 8 | 1 | 84 | 80 | 4 | 0 |
| 34 | 9 | 1 | 84 | 80 | 4 | 0 |
| 34 | 9 | 1 | 84 | 80 | 4 | 0 |
| 34 | a | 1 | 126 | 120 | 6 | 0 |
| 34 | a | 1 | 126 | 120 | 6 | 0 |

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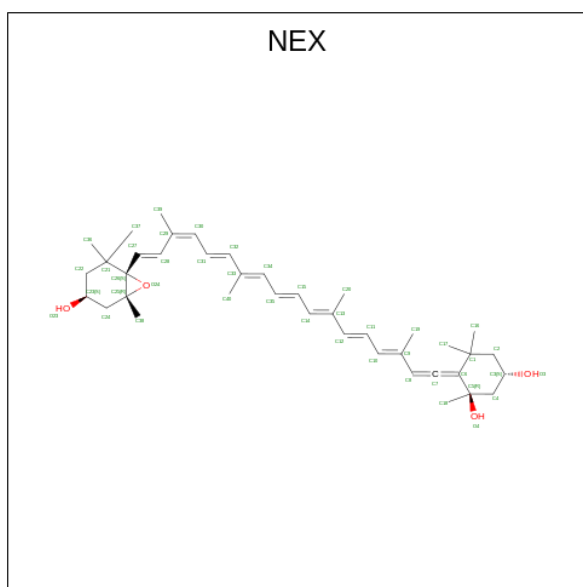
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|-----|---|---------|
| | | | Total | C | O | |
| 34 | a | 1 | 126 | 120 | 6 | 0 |

- Molecule 35 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'-TETRAHYDRO-BETA, BETA-CAROTENE-3,3'-DIOL (three-letter code: XAT) (formula: C₄₀H₅₆O₄).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|-----|----|---------|
| | | | Total | C | O | |
| 35 | P | 1 | 131 | 119 | 12 | 0 |
| 35 | P | 1 | 131 | 119 | 12 | 0 |
| 35 | P | 1 | 131 | 119 | 12 | 0 |
| 35 | Q | 1 | 44 | 40 | 4 | 0 |
| 35 | S | 1 | 44 | 40 | 4 | 0 |
| 35 | T | 1 | 44 | 40 | 4 | 0 |

- Molecule 36 is (1R,3R)-6-[(3E,5E,7E,9E,11E,13E,15E,17E)-18-[(1S,4R,6R)-4-HYDROXY-2,2,6-TRIMETHYL-7-OXABICYCLO[4.1.0]HEPT-1-YL]-3,7,12,16-TETRAMETHYLOCTA DECA-1,3,5,7,9,11,13,15,17-NONAENYLIDENE]-1,5,5-TRIMETHYLCYCLOHEXANE-1,3-DIOL (three-letter code: NEX) (formula: C₄₀H₅₆O₄).

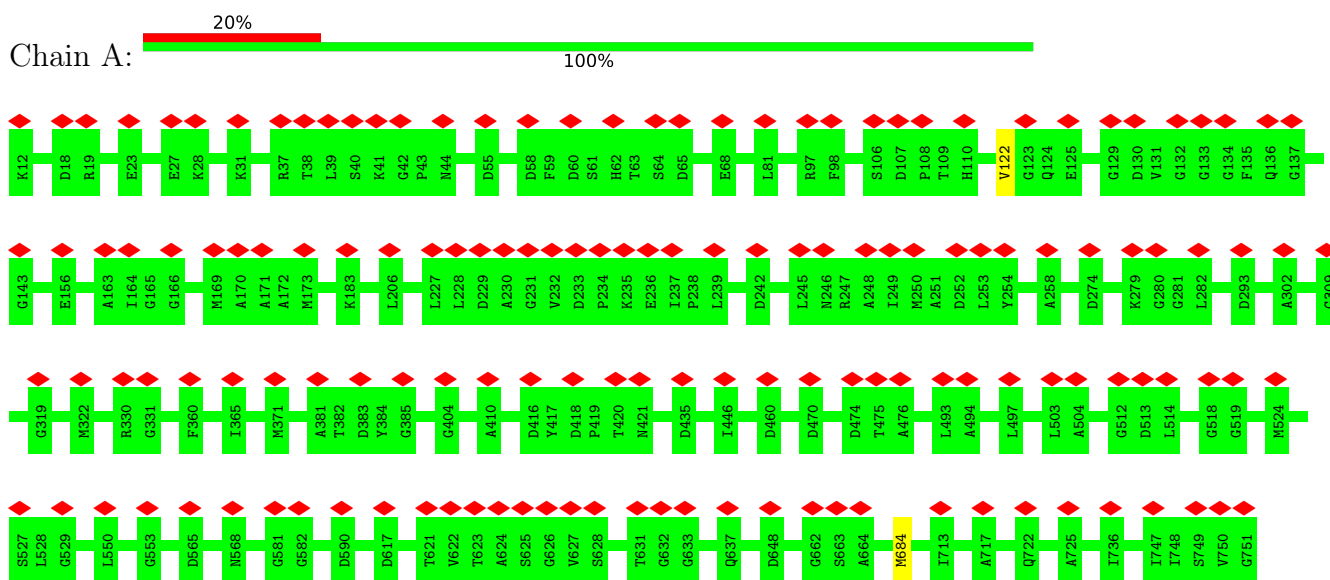


| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 36 | P | 1 | 88 | 80 | 8 | 0 |
| 36 | P | 1 | 88 | 80 | 8 | 0 |
| 36 | R | 1 | 44 | 40 | 4 | 0 |
| 36 | T | 1 | 44 | 40 | 4 | 0 |
| 36 | U | 1 | 88 | 80 | 8 | 0 |
| 36 | U | 1 | 88 | 80 | 8 | 0 |

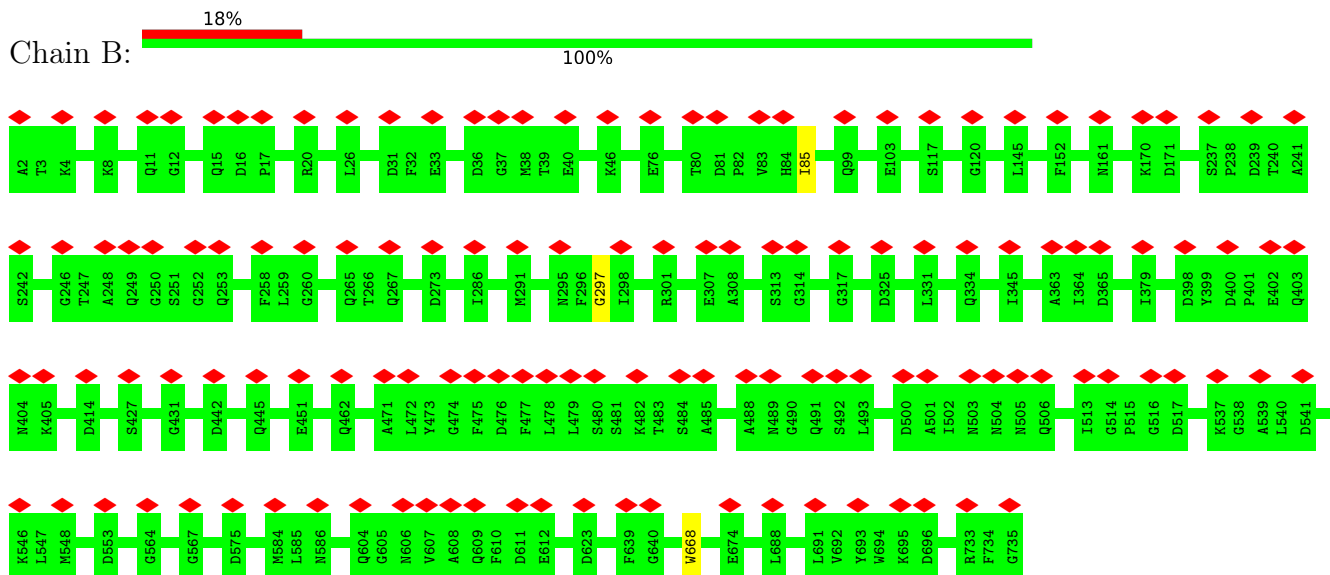
3 Residue-property plots

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 and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

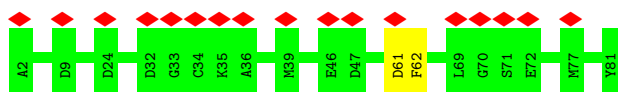
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



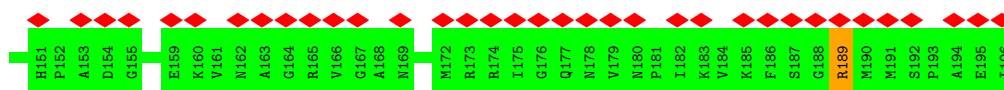
- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2



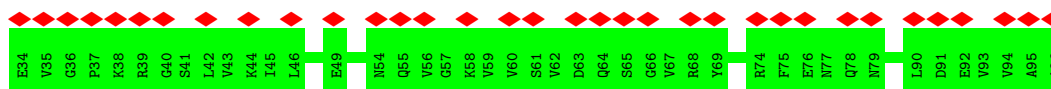
- Molecule 3: Photosystem I iron-sulfur center



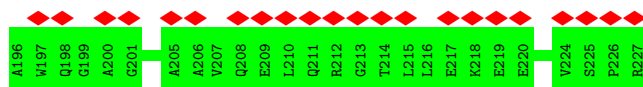
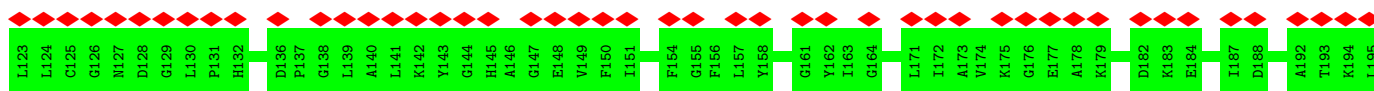
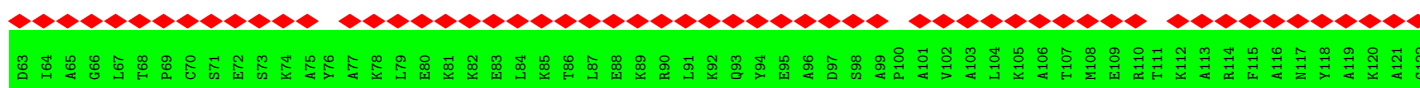
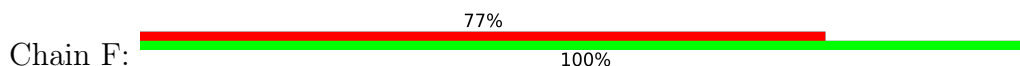
- Molecule 4: Photosystem I reaction center subunit II, chloroplastic



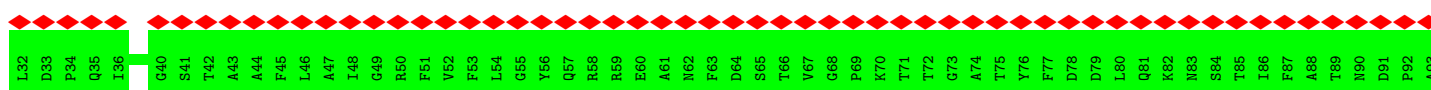
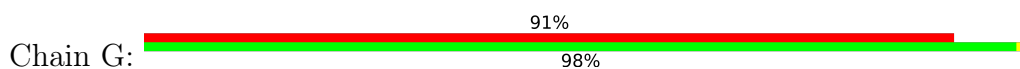
- Molecule 5: Photosystem I reaction center subunit IV, chloroplastic



- Molecule 6: Photosystem I reaction center subunit F, Photosystem I reaction center subunit III, chloroplastic

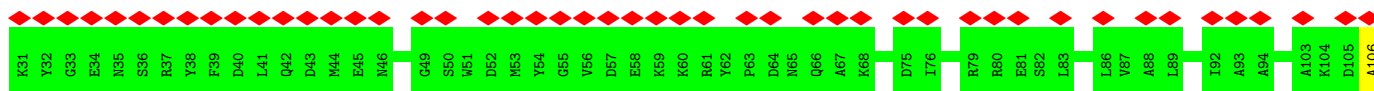


- Molecule 7: Photosystem I reaction center subunit V, chloroplastic

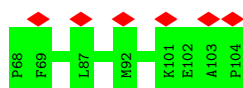




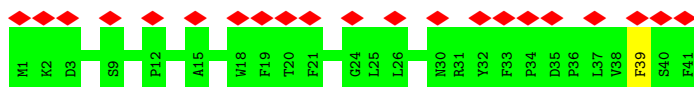
- Molecule 8: Photosystem I reaction center subunit VI, chloroplastic



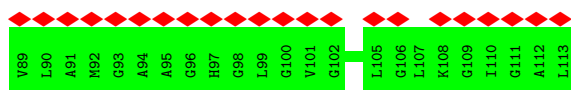
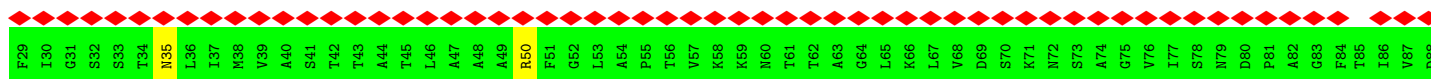
- Molecule 9: Photosystem I reaction center subunit VIII



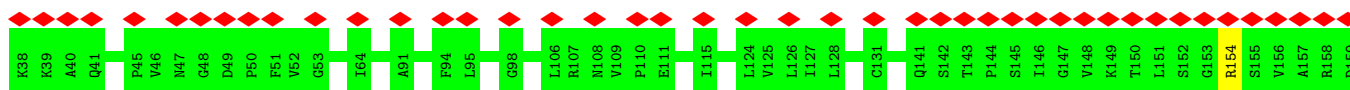
- Molecule 10: Photosystem I reaction center subunit IX

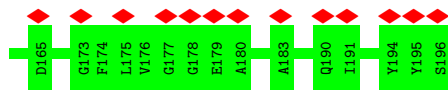


- Molecule 11: Photosystem I reaction center subunit psaK, chloroplastic

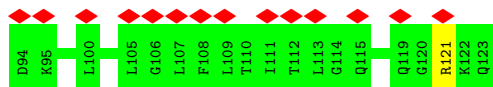
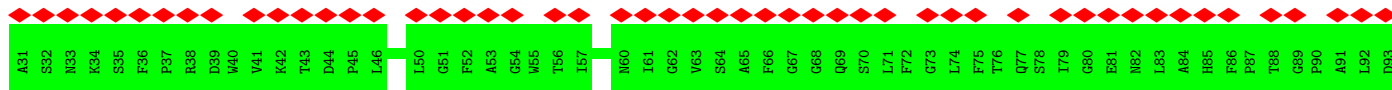


- Molecule 12: PSI subunit V

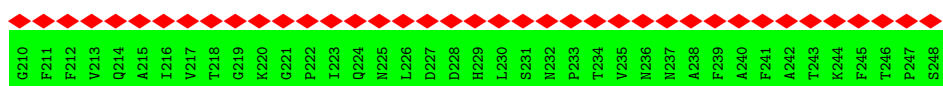
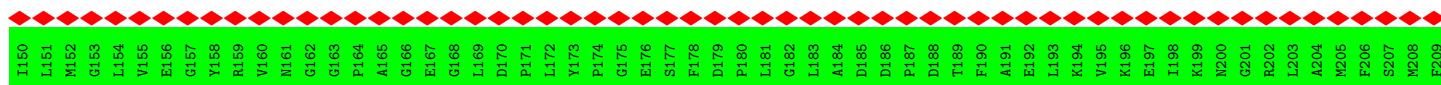
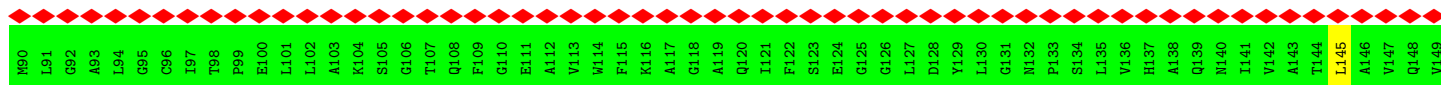
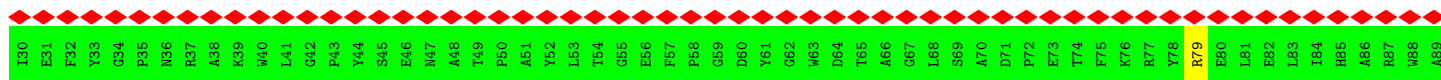




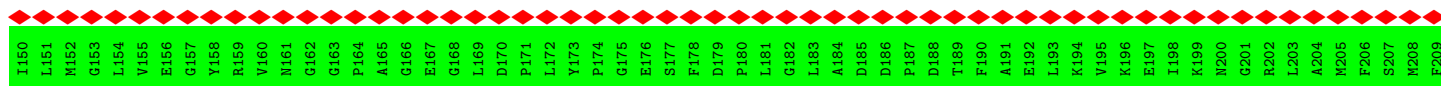
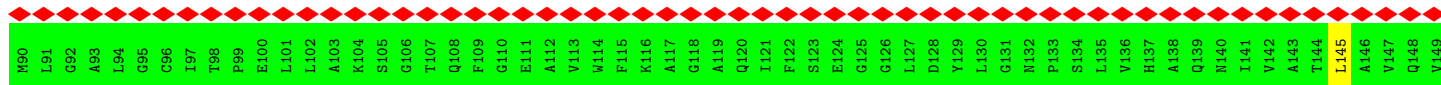
• Molecule 13: Photosystem I subunit O

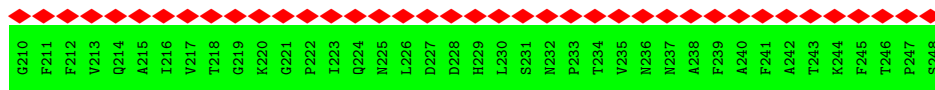


• Molecule 14: Chlorophyll a-b binding protein, chloroplastic

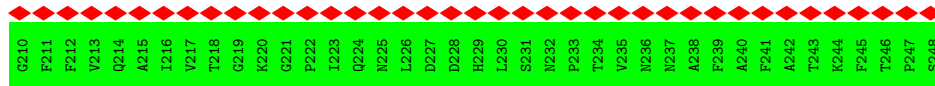
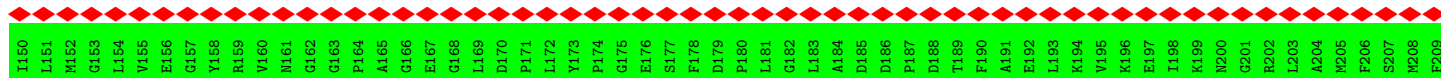
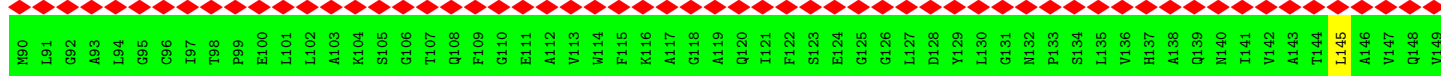
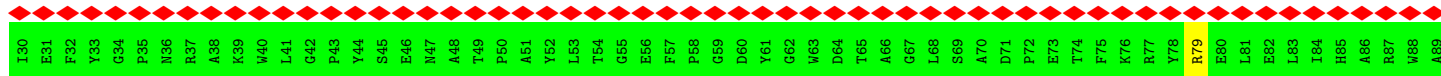


• Molecule 14: Chlorophyll a-b binding protein, chloroplastic

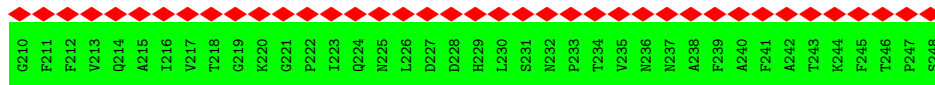
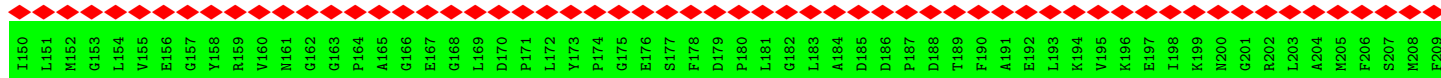
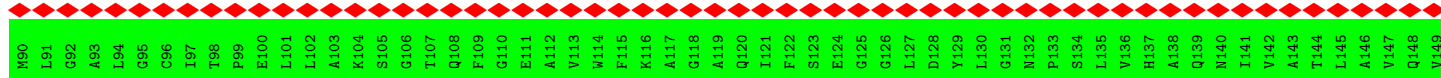
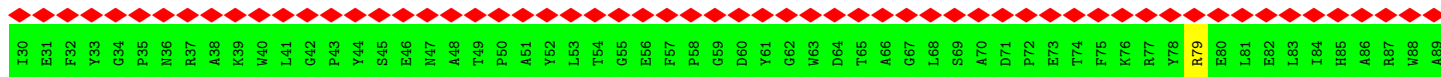




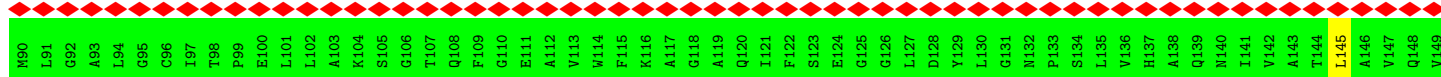
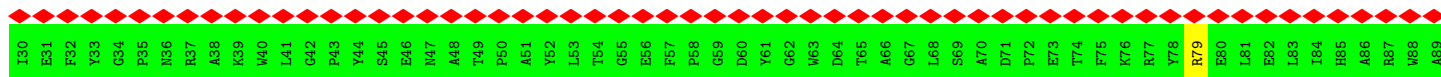
• Molecule 14: Chlorophyll a-b binding protein, chloroplastic

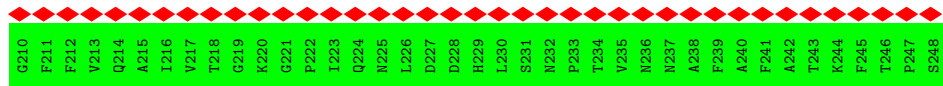
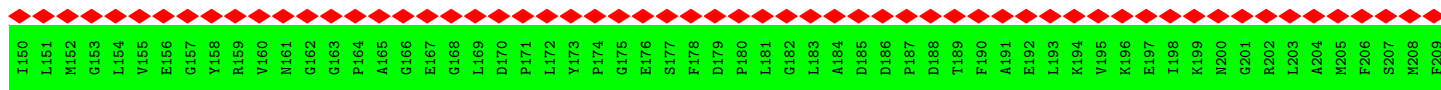


• Molecule 14: Chlorophyll a-b binding protein, chloroplastic

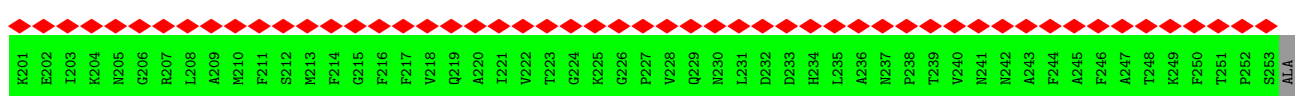
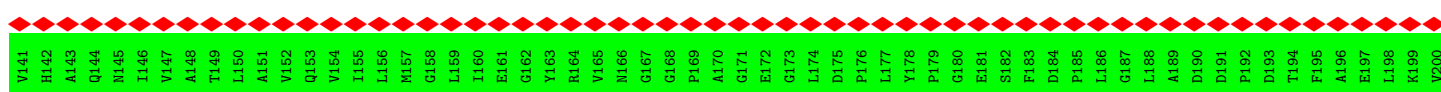
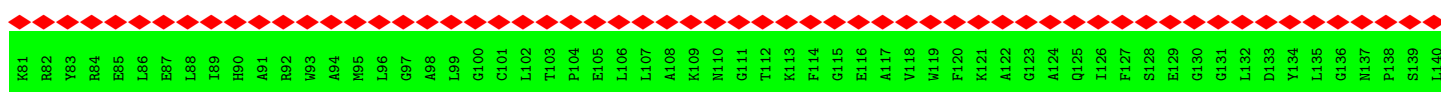
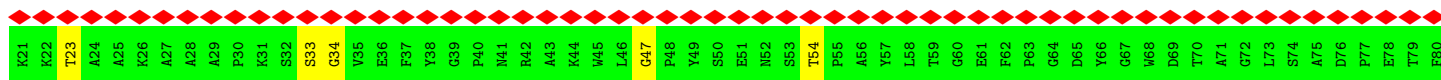


• Molecule 14: Chlorophyll a-b binding protein, chloroplastic

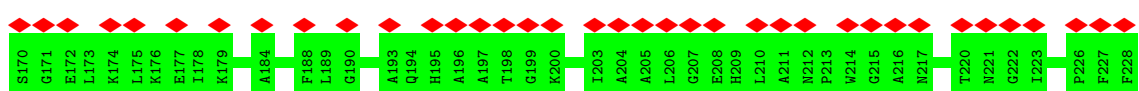
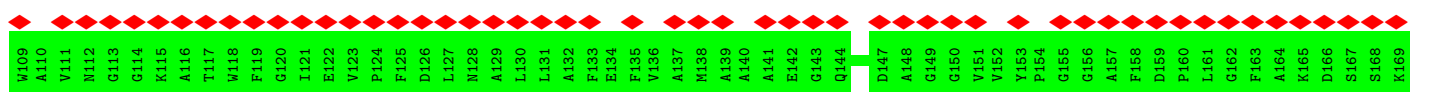
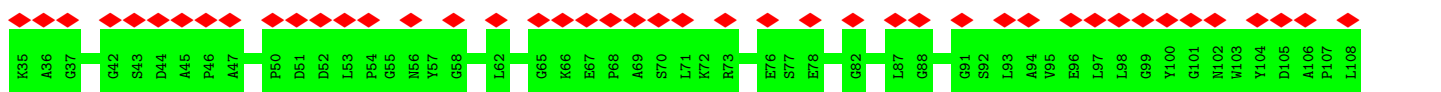




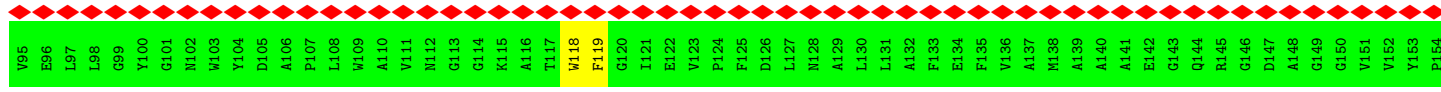
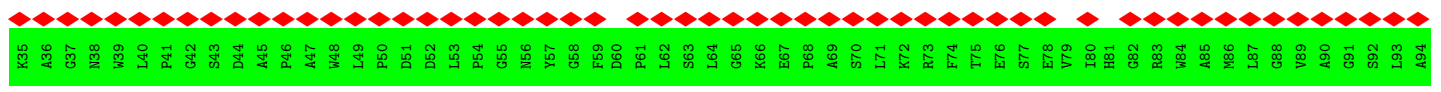
• Molecule 15: Chlorophyll a-b binding protein, chloroplastic

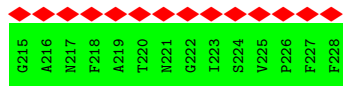
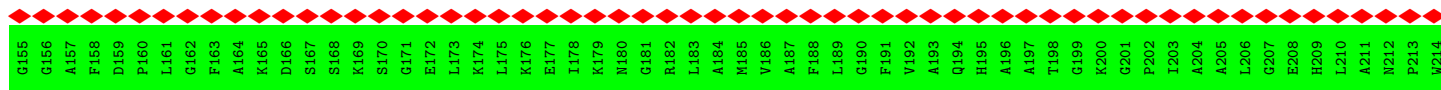


• Molecule 16: Chlorophyll a-b binding protein, chloroplastic

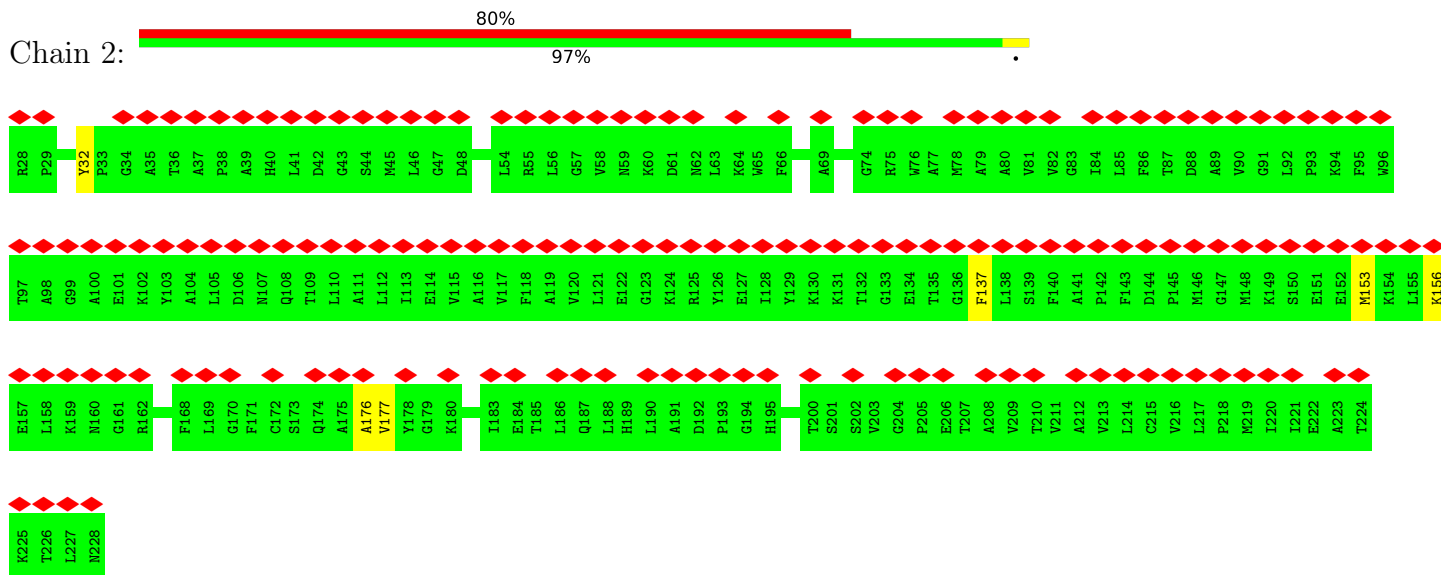


• Molecule 16: Chlorophyll a-b binding protein, chloroplastic

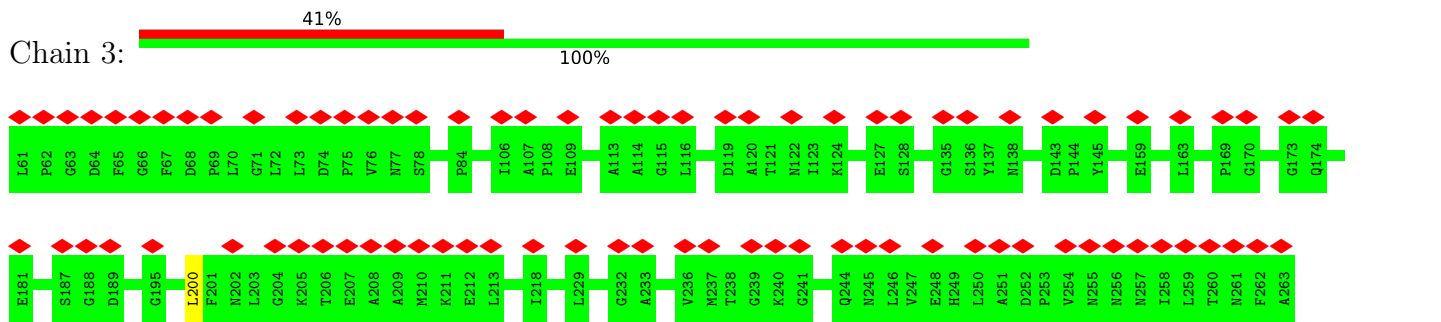




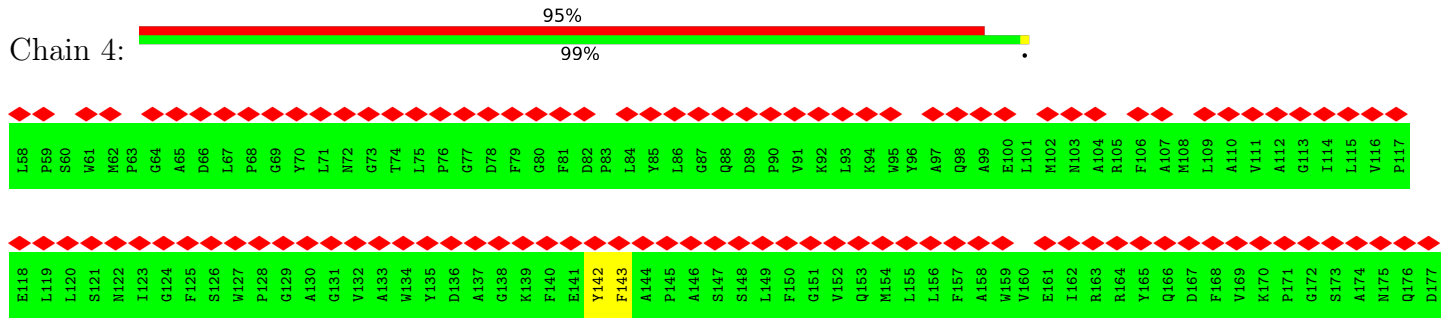
• Molecule 17: Chlorophyll a-b binding protein, chloroplastic

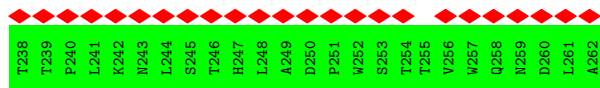


• Molecule 18: Chlorophyll a-b binding protein, chloroplastic

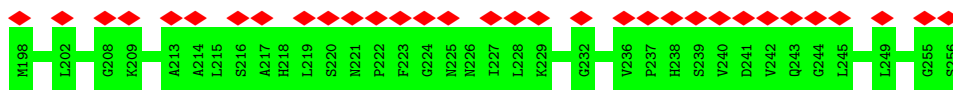
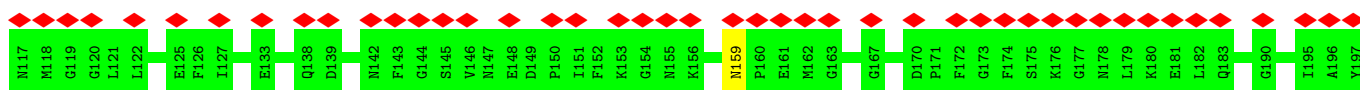
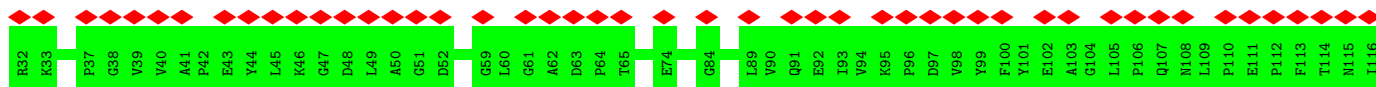


• Molecule 19: Chlorophyll a-b binding protein, chloroplastic

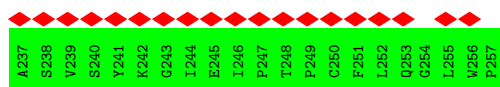
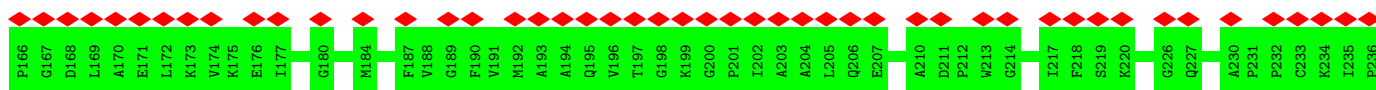
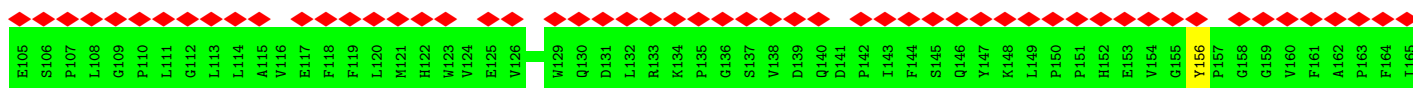
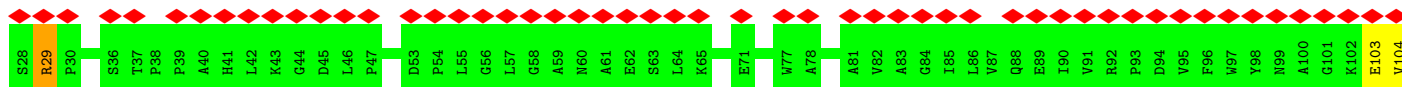
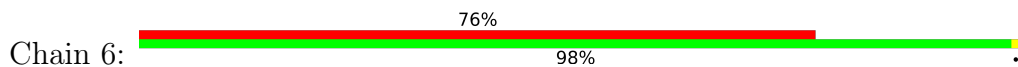




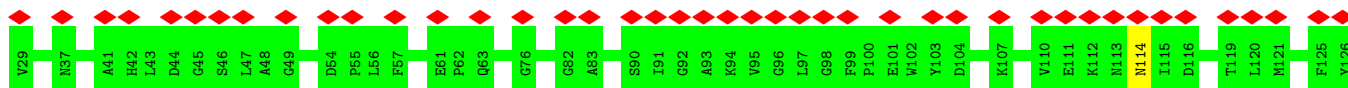
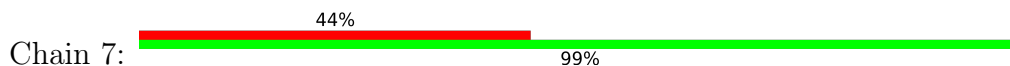
- Molecule 20: Chlorophyll a-b binding protein, chloroplastic

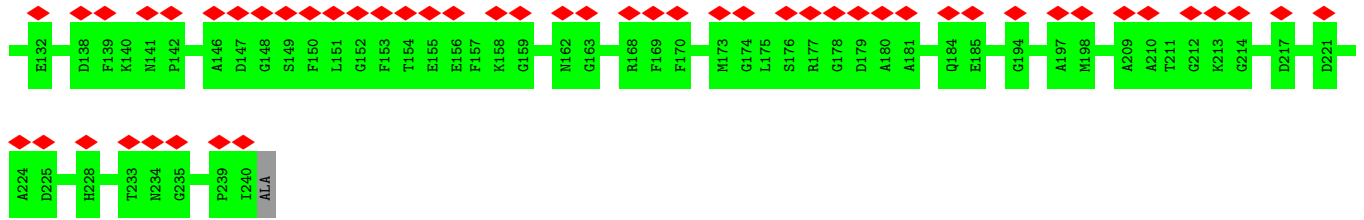


- Molecule 21: Chlorophyll a-b binding protein, chloroplastic

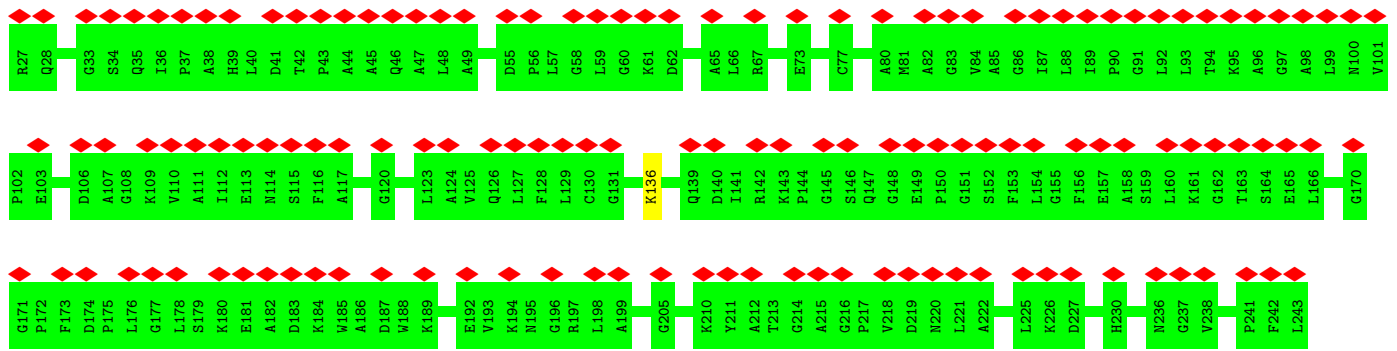


- Molecule 22: Chlorophyll a-b binding protein, chloroplastic

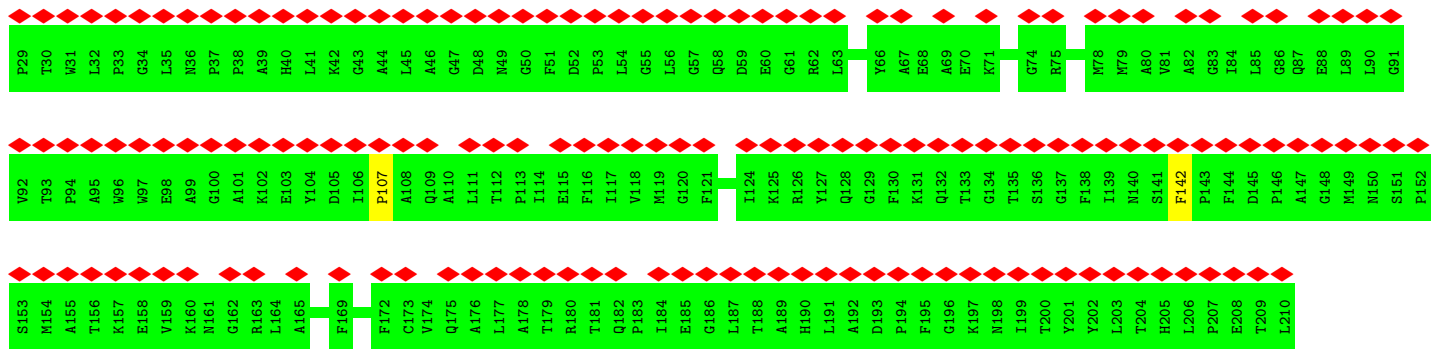




• Molecule 23: Chlorophyll a-b binding protein, chloroplastic



• Molecule 24: Chlorophyll a-b binding protein, chloroplastic



4 Experimental information

| Property | Value | Source |
|--------------------------------------|---|-----------|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | POINT, Not provided | |
| Number of particles used | 283763 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | PHASE FLIPPING AND AMPLITUDE CORRECTION | Depositor |
| Microscope | FEI TITAN KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 50 | Depositor |
| Minimum defocus (nm) | Not provided | |
| Maximum defocus (nm) | Not provided | |
| Magnification | Not provided | |
| Image detector | GATAN K2 SUMMIT (4k x 4k) | Depositor |
| Maximum map value | 5.004 | Depositor |
| Minimum map value | -1.725 | Depositor |
| Average map value | -0.002 | Depositor |
| Map value standard deviation | 0.085 | Depositor |
| Recommended contour level | 1.0 | Depositor |
| Map size (Å) | 470.52002, 470.52002, 470.52002 | wwPDB |
| Map dimensions | 360, 360, 360 | wwPDB |
| Map angles (°) | 90.0, 90.0, 90.0 | wwPDB |
| Pixel spacing (Å) | 1.307, 1.307, 1.307 | Depositor |

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PQN, LHG, BCR, CHL, DGD, NEX, SF4, SQD, XAT, CLA, TPO, LUT, LMG

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

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|----------------|-------------|-----------------|
| | | RMSZ | # $ Z > 5$ | RMSZ | # $ Z > 5$ |
| 1 | A | 0.57 | 0/6007 | 0.57 | 1/8190 (0.0%) |
| 2 | B | 0.59 | 0/6040 | 0.57 | 0/8247 |
| 3 | C | 0.62 | 0/610 | 0.60 | 0/826 |
| 4 | D | 0.51 | 0/1160 | 0.60 | 2/1567 (0.1%) |
| 5 | E | 0.52 | 0/506 | 0.48 | 0/689 |
| 6 | F | 0.46 | 0/1291 | 0.55 | 0/1747 |
| 7 | G | 0.43 | 0/693 | 0.58 | 1/943 (0.1%) |
| 8 | H | 0.47 | 0/785 | 0.63 | 0/1055 |
| 9 | I | 0.58 | 0/293 | 0.56 | 0/406 |
| 10 | J | 0.48 | 0/349 | 0.53 | 0/478 |
| 11 | K | 0.38 | 0/583 | 0.60 | 0/790 |
| 12 | L | 0.53 | 0/1190 | 0.61 | 0/1628 |
| 13 | O | 0.49 | 0/743 | 0.65 | 0/1013 |
| 14 | P | 0.33 | 0/1717 | 0.54 | 1/2339 (0.0%) |
| 14 | Q | 0.32 | 0/1717 | 0.52 | 1/2339 (0.0%) |
| 14 | R | 0.31 | 0/1717 | 0.52 | 1/2339 (0.0%) |
| 14 | T | 0.28 | 0/1717 | 0.50 | 0/2339 |
| 14 | U | 0.30 | 0/1717 | 0.51 | 1/2339 (0.0%) |
| 15 | S | 0.40 | 0/1748 | 0.63 | 1/2376 (0.0%) |
| 16 | 1 | 0.43 | 0/1490 | 0.51 | 0/2028 |
| 16 | a | 0.68 | 6/1490 (0.4%) | 0.63 | 5/2028 (0.2%) |
| 17 | 2 | 0.49 | 0/1583 | 0.72 | 2/2148 (0.1%) |
| 18 | 3 | 0.52 | 0/1606 | 0.59 | 1/2180 (0.0%) |
| 19 | 4 | 0.41 | 0/1645 | 0.54 | 0/2246 |
| 20 | 5 | 0.51 | 0/1812 | 0.56 | 0/2469 |
| 21 | 6 | 0.50 | 1/1833 (0.1%) | 0.56 | 0/2505 |
| 22 | 7 | 0.52 | 0/1696 | 0.54 | 0/2303 |
| 23 | 8 | 0.51 | 0/1700 | 0.57 | 1/2315 (0.0%) |
| 24 | 9 | 0.41 | 0/1433 | 0.56 | 0/1949 |
| All | All | 0.49 | 7/46871 (0.0%) | 0.57 | 18/63821 (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 |
|-----|-------|---------------------|---------------------|
| 2 | B | 0 | 2 |
| 3 | C | 0 | 2 |
| 10 | J | 0 | 1 |
| 15 | S | 0 | 1 |
| 17 | 2 | 0 | 2 |
| 19 | 4 | 0 | 2 |
| 21 | 6 | 0 | 1 |
| 22 | 7 | 0 | 1 |
| 24 | 9 | 0 | 1 |
| All | All | 0 | 13 |

All (7) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|--------|-------------|----------|
| 16 | a | 118 | TRP | CB-CG | -11.53 | 1.29 | 1.50 |
| 16 | a | 118 | TRP | CE2-CZ2 | -9.35 | 1.23 | 1.39 |
| 16 | a | 118 | TRP | NE1-CE2 | 8.79 | 1.49 | 1.37 |
| 16 | a | 118 | TRP | CE3-CZ3 | -8.03 | 1.24 | 1.38 |
| 16 | a | 118 | TRP | CG-CD2 | -6.54 | 1.32 | 1.43 |
| 21 | 6 | 156 | TYR | CD2-CE2 | -6.28 | 1.29 | 1.39 |
| 16 | a | 118 | TRP | CZ3-CH2 | -5.13 | 1.31 | 1.40 |

All (18) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 17 | 2 | 153 | MET | CG-SD-CE | -10.21 | 83.86 | 100.20 |
| 23 | 8 | 136 | LYS | CD-CE-NZ | -9.85 | 89.04 | 111.70 |
| 16 | a | 118 | TRP | CD1-NE1-CE2 | -9.59 | 100.37 | 109.00 |
| 1 | A | 684 | MET | CG-SD-CE | -9.56 | 84.90 | 100.20 |
| 4 | D | 76 | ARG | NE-CZ-NH1 | -7.66 | 116.47 | 120.30 |
| 18 | 3 | 200 | LEU | CA-CB-CG | 6.38 | 129.97 | 115.30 |
| 15 | S | 34 | GLY | N-CA-C | -5.92 | 98.31 | 113.10 |
| 16 | a | 118 | TRP | CH2-CZ2-CE2 | -5.88 | 111.52 | 117.40 |
| 16 | a | 118 | TRP | CE2-CD2-CG | 5.88 | 112.00 | 107.30 |
| 14 | P | 145 | LEU | CA-CB-CG | 5.82 | 128.69 | 115.30 |
| 14 | R | 145 | LEU | CA-CB-CG | 5.79 | 128.61 | 115.30 |
| 14 | Q | 145 | LEU | CA-CB-CG | 5.61 | 128.20 | 115.30 |
| 7 | G | 120 | LEU | CA-CB-CG | 5.48 | 127.90 | 115.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 16 | a | 118 | TRP | CG-CD1-NE1 | 5.46 | 115.56 | 110.10 |
| 17 | 2 | 156 | LYS | CD-CE-NZ | 5.46 | 124.25 | 111.70 |
| 4 | D | 189 | ARG | NE-CZ-NH2 | -5.43 | 117.59 | 120.30 |
| 14 | U | 145 | LEU | CA-CB-CG | 5.36 | 127.62 | 115.30 |
| 16 | a | 118 | TRP | CD2-CE2-CZ2 | 5.16 | 128.49 | 122.30 |

There are no chirality outliers.

All (13) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|-------------------|
| 17 | 2 | 137 | PHE | Peptide |
| 17 | 2 | 32 | TYR | Peptide |
| 19 | 4 | 142 | TYR | Mainchain,Peptide |
| 21 | 6 | 29 | ARG | Peptide |
| 22 | 7 | 114 | ASN | Peptide |
| 24 | 9 | 142 | PHE | Peptide |
| 2 | B | 297 | GLY | Peptide |
| 2 | B | 668 | TRP | Peptide |
| 3 | C | 61 | ASP | Peptide |
| 3 | C | 62 | PHE | Peptide |
| 10 | J | 39 | PHE | Peptide |
| 15 | S | 33 | SER | Mainchain |

5.2 Too-close contacts [i](#)

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

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|----------------|-----------|---------|----------|-------------|----|
| 1 | A | 738/740 (100%) | 698 (95%) | 39 (5%) | 1 (0%) | 51 | 83 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|----------|-------------|-----|
| 2 | B | 732/734 (100%) | 675 (92%) | 56 (8%) | 1 (0%) | 51 | 83 |
| 3 | C | 78/80 (98%) | 73 (94%) | 5 (6%) | 0 | 100 | 100 |
| 4 | D | 142/144 (99%) | 127 (89%) | 15 (11%) | 0 | 100 | 100 |
| 5 | E | 61/63 (97%) | 56 (92%) | 5 (8%) | 0 | 100 | 100 |
| 6 | F | 163/165 (99%) | 152 (93%) | 11 (7%) | 0 | 100 | 100 |
| 7 | G | 89/91 (98%) | 83 (93%) | 6 (7%) | 0 | 100 | 100 |
| 8 | H | 98/100 (98%) | 77 (79%) | 18 (18%) | 3 (3%) | 4 | 28 |
| 9 | I | 35/37 (95%) | 33 (94%) | 2 (6%) | 0 | 100 | 100 |
| 10 | J | 39/41 (95%) | 37 (95%) | 2 (5%) | 0 | 100 | 100 |
| 11 | K | 83/85 (98%) | 77 (93%) | 6 (7%) | 0 | 100 | 100 |
| 12 | L | 157/159 (99%) | 145 (92%) | 12 (8%) | 0 | 100 | 100 |
| 13 | O | 91/93 (98%) | 76 (84%) | 15 (16%) | 0 | 100 | 100 |
| 14 | P | 217/219 (99%) | 189 (87%) | 28 (13%) | 0 | 100 | 100 |
| 14 | Q | 217/219 (99%) | 189 (87%) | 28 (13%) | 0 | 100 | 100 |
| 14 | R | 217/219 (99%) | 189 (87%) | 28 (13%) | 0 | 100 | 100 |
| 14 | T | 217/219 (99%) | 190 (88%) | 27 (12%) | 0 | 100 | 100 |
| 14 | U | 217/219 (99%) | 190 (88%) | 27 (12%) | 0 | 100 | 100 |
| 15 | S | 230/234 (98%) | 192 (84%) | 36 (16%) | 2 (1%) | 17 | 53 |
| 16 | 1 | 192/194 (99%) | 176 (92%) | 16 (8%) | 0 | 100 | 100 |
| 16 | a | 192/194 (99%) | 175 (91%) | 16 (8%) | 1 (0%) | 29 | 65 |
| 17 | 2 | 199/201 (99%) | 169 (85%) | 28 (14%) | 2 (1%) | 15 | 51 |
| 18 | 3 | 201/203 (99%) | 181 (90%) | 20 (10%) | 0 | 100 | 100 |
| 19 | 4 | 203/205 (99%) | 186 (92%) | 16 (8%) | 1 (0%) | 29 | 65 |
| 20 | 5 | 223/225 (99%) | 200 (90%) | 23 (10%) | 0 | 100 | 100 |
| 21 | 6 | 228/230 (99%) | 209 (92%) | 16 (7%) | 3 (1%) | 12 | 45 |
| 22 | 7 | 210/213 (99%) | 195 (93%) | 15 (7%) | 0 | 100 | 100 |
| 23 | 8 | 215/217 (99%) | 204 (95%) | 11 (5%) | 0 | 100 | 100 |
| 24 | 9 | 180/182 (99%) | 154 (86%) | 25 (14%) | 1 (1%) | 25 | 61 |
| All | All | 5864/5925 (99%) | 5297 (90%) | 552 (9%) | 15 (0%) | 44 | 74 |

All (15) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 122 | VAL |
| 21 | 6 | 104 | VAL |
| 8 | H | 106 | ALA |
| 19 | 4 | 143 | PHE |
| 15 | S | 54 | THR |
| 21 | 6 | 103 | GLU |
| 21 | 6 | 29 | ARG |
| 16 | a | 119 | PHE |
| 17 | 2 | 176 | ALA |
| 17 | 2 | 177 | VAL |
| 8 | H | 107 | ASP |
| 8 | H | 108 | LEU |
| 2 | B | 85 | ILE |
| 15 | S | 47 | GLY |
| 24 | 9 | 107 | PRO |

5.3.2 Protein sidechains [i](#)

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

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|------------|----------|-------------|-----|
| 1 | A | 600/600 (100%) | 600 (100%) | 0 | 100 | 100 |
| 2 | B | 596/596 (100%) | 596 (100%) | 0 | 100 | 100 |
| 3 | C | 69/69 (100%) | 69 (100%) | 0 | 100 | 100 |
| 4 | D | 121/121 (100%) | 120 (99%) | 1 (1%) | 81 | 92 |
| 5 | E | 54/54 (100%) | 54 (100%) | 0 | 100 | 100 |
| 6 | F | 127/127 (100%) | 127 (100%) | 0 | 100 | 100 |
| 7 | G | 68/68 (100%) | 67 (98%) | 1 (2%) | 65 | 83 |
| 8 | H | 80/81 (99%) | 80 (100%) | 0 | 100 | 100 |
| 9 | I | 31/31 (100%) | 31 (100%) | 0 | 100 | 100 |
| 10 | J | 37/37 (100%) | 37 (100%) | 0 | 100 | 100 |
| 11 | K | 59/59 (100%) | 57 (97%) | 2 (3%) | 37 | 68 |
| 12 | L | 121/121 (100%) | 120 (99%) | 1 (1%) | 81 | 92 |
| 13 | O | 75/75 (100%) | 74 (99%) | 1 (1%) | 69 | 86 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|-------------|----------|-------------|-----|
| 14 | P | 168/170 (99%) | 167 (99%) | 1 (1%) | 86 | 94 |
| 14 | Q | 168/170 (99%) | 167 (99%) | 1 (1%) | 86 | 94 |
| 14 | R | 168/170 (99%) | 167 (99%) | 1 (1%) | 86 | 94 |
| 14 | T | 168/170 (99%) | 167 (99%) | 1 (1%) | 86 | 94 |
| 14 | U | 168/170 (99%) | 167 (99%) | 1 (1%) | 86 | 94 |
| 15 | S | 164/177 (93%) | 164 (100%) | 0 | 100 | 100 |
| 16 | 1 | 137/137 (100%) | 137 (100%) | 0 | 100 | 100 |
| 16 | a | 137/137 (100%) | 137 (100%) | 0 | 100 | 100 |
| 17 | 2 | 159/159 (100%) | 159 (100%) | 0 | 100 | 100 |
| 18 | 3 | 155/155 (100%) | 155 (100%) | 0 | 100 | 100 |
| 19 | 4 | 161/162 (99%) | 161 (100%) | 0 | 100 | 100 |
| 20 | 5 | 182/182 (100%) | 181 (100%) | 1 (0%) | 88 | 95 |
| 21 | 6 | 184/184 (100%) | 184 (100%) | 0 | 100 | 100 |
| 22 | 7 | 164/164 (100%) | 164 (100%) | 0 | 100 | 100 |
| 23 | 8 | 163/163 (100%) | 163 (100%) | 0 | 100 | 100 |
| 24 | 9 | 139/140 (99%) | 139 (100%) | 0 | 100 | 100 |
| All | All | 4623/4649 (99%) | 4611 (100%) | 12 (0%) | 92 | 97 |

All (12) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 4 | D | 189 | ARG |
| 7 | G | 118 | ASN |
| 11 | K | 35 | ASN |
| 11 | K | 50 | ARG |
| 12 | L | 154 | ARG |
| 13 | O | 121 | ARG |
| 14 | P | 79 | ARG |
| 14 | Q | 79 | ARG |
| 14 | R | 79 | ARG |
| 14 | T | 79 | ARG |
| 14 | U | 79 | ARG |
| 20 | 5 | 159 | ASN |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 217 | GLN |
| 1 | A | 489 | ASN |
| 2 | B | 445 | GLN |
| 4 | D | 170 | GLN |
| 8 | H | 66 | GLN |
| 12 | L | 41 | GLN |
| 14 | Q | 85 | HIS |
| 15 | S | 153 | GLN |
| 17 | 2 | 62 | ASN |
| 20 | 5 | 117 | ASN |
| 20 | 5 | 205 | GLN |
| 24 | 9 | 128 | GLN |

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

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

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|-------------|-------------|------|-------------|
| | | | | | Counts | RMSZ | $\# Z > 2$ | Counts | RMSZ | $\# Z > 2$ |
| 15 | TPO | S | 23 | 15 | 8,10,11 | 0.88 | 0 | 10,14,16 | 1.70 | 1 (10%) |

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 |
|-----|------|-------|-----|------|---------|-----------|-------|
| 15 | TPO | S | 23 | 15 | - | 3/9/11/13 | - |

There are no bond length outliers.

All (1) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|----------|-------|-------------|----------|
| 15 | S | 23 | TPO | P-OG1-CB | -4.90 | 108.41 | 123.21 |

There are no chirality outliers.

All (3) torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|--------------|
| 15 | S | 23 | TPO | N-CA-CB-OG1 |
| 15 | S | 23 | TPO | C-CA-CB-CG2 |
| 15 | S | 23 | TPO | CB-OG1-P-O1P |

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

453 ligands are modelled in this entry.

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

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|-------------|-------------|------|-------------|
| | | | | | Counts | RMSZ | $\# Z > 2$ | Counts | RMSZ | $\# Z > 2$ |
| 34 | LUT | Q | 615 | - | 42,43,43 | 0.83 | 1 (2%) | 51,60,60 | 1.85 | 16 (31%) |
| 34 | LUT | 6 | 622 | - | 42,43,43 | 0.88 | 1 (2%) | 51,60,60 | 1.50 | 11 (21%) |
| 28 | BCR | 3 | 318 | - | 41,41,41 | 0.84 | 1 (2%) | 56,56,56 | 2.79 | 24 (42%) |
| 25 | CLA | 8 | 311 | 27 | 46,54,73 | 1.72 | 10 (21%) | 53,90,113 | 1.51 | 7 (13%) |
| 28 | BCR | L | 203 | - | 41,41,41 | 0.90 | 1 (2%) | 56,56,56 | 2.03 | 15 (26%) |
| 25 | CLA | 3 | 314 | - | 56,64,73 | 1.58 | 10 (17%) | 65,102,113 | 1.49 | 6 (9%) |
| 28 | BCR | A | 854 | - | 41,41,41 | 0.88 | 1 (2%) | 56,56,56 | 1.96 | 16 (28%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 28 | BCR | L | 208 | - | 41,41,41 | 0.87 | 2 (4%) | 56,56,56 | 1.98 | 18 (32%) |
| 25 | CLA | a | 301 | - | 65,73,73 | 1.53 | 9 (13%) | 76,113,113 | 1.36 | 8 (10%) |
| 25 | CLA | 8 | 304 | - | 45,53,73 | 1.75 | 10 (22%) | 52,89,113 | 1.61 | 7 (13%) |
| 29 | SF4 | C | 101 | 3 | 0,12,12 | - | - | - | - | - |
| 25 | CLA | 7 | 303 | - | 56,64,73 | 1.60 | 10 (17%) | 65,102,113 | 1.47 | 7 (10%) |
| 28 | BCR | 4 | 317 | - | 41,41,41 | 0.88 | 0 | 56,56,56 | 2.30 | 19 (33%) |
| 25 | CLA | A | 819 | - | 65,73,73 | 1.50 | 10 (15%) | 76,113,113 | 1.49 | 8 (10%) |
| 34 | LUT | a | 315 | - | 42,43,43 | 0.87 | 0 | 51,60,60 | 1.83 | 15 (29%) |
| 33 | CHL | S | 302 | - | 53,61,74 | 2.04 | 17 (32%) | 57,98,114 | 2.87 | 27 (47%) |
| 25 | CLA | 1 | 608 | - | 65,73,73 | 1.44 | 8 (12%) | 76,113,113 | 1.30 | 7 (9%) |
| 25 | CLA | 6 | 605 | - | 65,73,73 | 1.42 | 8 (12%) | 76,113,113 | 1.41 | 7 (9%) |
| 25 | CLA | A | 853 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.41 | 8 (10%) |
| 32 | LMG | H | 204 | - | 47,47,55 | 0.95 | 2 (4%) | 55,55,63 | 1.16 | 5 (9%) |
| 25 | CLA | a | 308 | 16 | 60,68,73 | 1.41 | 8 (13%) | 70,107,113 | 1.79 | 14 (20%) |
| 25 | CLA | 1 | 610 | 27 | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.31 | 8 (10%) |
| 27 | LHG | 4 | 319 | - | 31,31,48 | 1.13 | 2 (6%) | 34,37,54 | 1.23 | 4 (11%) |
| 25 | CLA | 6 | 609 | - | 50,58,73 | 1.64 | 9 (18%) | 58,95,113 | 1.56 | 7 (12%) |
| 25 | CLA | 6 | 614 | - | 45,53,73 | 1.73 | 10 (22%) | 52,89,113 | 1.64 | 9 (17%) |
| 25 | CLA | S | 311 | - | 60,68,73 | 1.53 | 6 (10%) | 70,107,113 | 1.37 | 8 (11%) |
| 25 | CLA | B | 807 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.59 | 10 (13%) |
| 25 | CLA | 1 | 602 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.32 | 8 (10%) |
| 25 | CLA | A | 822 | - | 65,73,73 | 1.45 | 10 (15%) | 76,113,113 | 1.48 | 8 (10%) |
| 25 | CLA | 3 | 308 | - | 65,73,73 | 1.43 | 10 (15%) | 76,113,113 | 1.40 | 7 (9%) |
| 33 | CHL | P | 622 | - | 53,61,74 | 2.20 | 16 (30%) | 57,98,114 | 3.02 | 29 (50%) |
| 25 | CLA | 3 | 301 | - | 60,68,73 | 1.53 | 10 (16%) | 70,107,113 | 1.47 | 8 (11%) |
| 25 | CLA | a | 310 | - | 52,60,73 | 1.68 | 8 (15%) | 60,97,113 | 1.51 | 6 (10%) |
| 35 | XAT | Q | 616 | - | 39,47,47 | 0.96 | 1 (2%) | 54,74,74 | 3.04 | 24 (44%) |
| 34 | LUT | a | 314 | - | 42,43,43 | 0.88 | 2 (4%) | 51,60,60 | 1.87 | 16 (31%) |
| 25 | CLA | O | 203 | - | 37,46,73 | 1.94 | 8 (21%) | 46,81,113 | 1.79 | 9 (19%) |
| 32 | LMG | 7 | 318 | - | 35,35,55 | 1.10 | 2 (5%) | 43,43,63 | 1.11 | 2 (4%) |
| 32 | LMG | J | 104 | - | 35,35,55 | 1.06 | 2 (5%) | 43,43,63 | 1.25 | 5 (11%) |
| 25 | CLA | A | 809 | 1 | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.42 | 8 (10%) |
| 25 | CLA | 2 | 305 | - | 52,60,73 | 1.65 | 8 (15%) | 60,97,113 | 1.51 | 7 (11%) |
| 25 | CLA | T | 612 | - | 48,56,73 | 1.73 | 5 (10%) | 55,92,113 | 1.59 | 7 (12%) |
| 25 | CLA | B | 811 | - | 65,73,73 | 1.51 | 11 (16%) | 76,113,113 | 1.50 | 9 (11%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | U | 303 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.44 | 7 (9%) |
| 25 | CLA | 9 | 308 | - | 50,58,73 | 1.68 | 9 (18%) | 58,95,113 | 1.59 | 10 (17%) |
| 25 | CLA | 4 | 311 | - | 56,64,73 | 1.56 | 9 (16%) | 65,102,113 | 1.52 | 8 (12%) |
| 29 | SF4 | A | 850 | 2,1 | 0,12,12 | - | - | - | - | - |
| 25 | CLA | A | 835 | - | 51,59,73 | 1.66 | 10 (19%) | 59,96,113 | 1.58 | 9 (15%) |
| 28 | BCR | L | 207 | - | 41,41,41 | 0.93 | 2 (4%) | 56,56,56 | 2.00 | 13 (23%) |
| 25 | CLA | a | 313 | - | 46,54,73 | 1.72 | 7 (15%) | 53,90,113 | 1.54 | 6 (11%) |
| 25 | CLA | 6 | 615 | 21 | 46,54,73 | 1.70 | 9 (19%) | 53,90,113 | 1.67 | 9 (16%) |
| 25 | CLA | 2 | 302 | 17 | 46,54,73 | 1.78 | 10 (21%) | 53,90,113 | 1.63 | 8 (15%) |
| 25 | CLA | B | 837 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.54 | 7 (9%) |
| 25 | CLA | P | 613 | - | 58,66,73 | 1.58 | 5 (8%) | 67,104,113 | 1.44 | 8 (11%) |
| 33 | CHL | P | 606 | - | 50,58,74 | 2.17 | 16 (32%) | 52,94,114 | 2.84 | 23 (44%) |
| 25 | CLA | S | 304 | - | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.37 | 7 (9%) |
| 34 | LUT | 1 | 616 | - | 42,43,43 | 0.95 | 2 (4%) | 51,60,60 | 1.84 | 18 (35%) |
| 25 | CLA | 8 | 310 | - | 60,68,73 | 1.50 | 10 (16%) | 70,107,113 | 1.40 | 8 (11%) |
| 25 | CLA | K | 201 | - | 51,59,73 | 1.63 | 10 (19%) | 59,96,113 | 1.63 | 10 (16%) |
| 25 | CLA | 2 | 310 | - | 41,49,73 | 1.83 | 9 (21%) | 47,84,113 | 1.60 | 7 (14%) |
| 36 | NEX | P | 621 | - | 38,46,46 | 0.86 | 0 | 50,70,70 | 3.27 | 27 (54%) |
| 25 | CLA | A | 834 | 1 | 45,53,73 | 1.76 | 10 (22%) | 52,89,113 | 1.67 | 5 (9%) |
| 25 | CLA | 3 | 302 | - | 65,73,73 | 1.51 | 9 (13%) | 76,113,113 | 1.42 | 9 (11%) |
| 33 | CHL | T | 605 | - | 50,58,74 | 2.18 | 17 (34%) | 52,94,114 | 2.85 | 22 (42%) |
| 34 | LUT | U | 315 | - | 42,43,43 | 0.78 | 0 | 51,60,60 | 1.81 | 17 (33%) |
| 34 | LUT | 8 | 316 | - | 42,43,43 | 0.90 | 1 (2%) | 51,60,60 | 1.78 | 14 (27%) |
| 32 | LMG | 7 | 319 | - | 36,36,55 | 1.12 | 3 (8%) | 44,44,63 | 1.25 | 5 (11%) |
| 25 | CLA | B | 822 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.43 | 10 (13%) |
| 34 | LUT | 5 | 318 | - | 42,43,43 | 0.92 | 2 (4%) | 51,60,60 | 1.68 | 13 (25%) |
| 25 | CLA | T | 608 | - | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.38 | 8 (10%) |
| 25 | CLA | A | 831 | - | 50,58,73 | 1.66 | 10 (20%) | 58,95,113 | 1.61 | 9 (15%) |
| 25 | CLA | P | 611 | - | 41,49,73 | 1.73 | 8 (19%) | 47,84,113 | 2.11 | 18 (38%) |
| 25 | CLA | S | 315 | - | 48,56,73 | 1.67 | 9 (18%) | 55,92,113 | 1.52 | 8 (14%) |
| 25 | CLA | 3 | 312 | - | 45,53,73 | 1.77 | 9 (20%) | 52,89,113 | 1.59 | 8 (15%) |
| 25 | CLA | 5 | 304 | - | 46,54,73 | 1.69 | 8 (17%) | 53,90,113 | 1.68 | 6 (11%) |
| 25 | CLA | B | 834 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.44 | 8 (10%) |
| 25 | CLA | 1 | 612 | - | 65,73,73 | 1.51 | 11 (16%) | 76,113,113 | 2.07 | 15 (19%) |
| 25 | CLA | B | 805 | - | 65,73,73 | 1.47 | 11 (16%) | 76,113,113 | 1.47 | 7 (9%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | 9 | 310 | 24 | 50,58,73 | 1.68 | 9 (18%) | 58,95,113 | 1.61 | 7 (12%) |
| 25 | CLA | R | 604 | - | 50,58,73 | 1.69 | 6 (12%) | 58,95,113 | 1.70 | 10 (17%) |
| 25 | CLA | B | 825 | - | 65,73,73 | 1.46 | 11 (16%) | 76,113,113 | 1.49 | 9 (11%) |
| 34 | LUT | Q | 614 | - | 42,43,43 | 0.73 | 0 | 51,60,60 | 1.84 | 12 (23%) |
| 25 | CLA | a | 312 | - | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.38 | 9 (11%) |
| 33 | CHL | Q | 608 | - | 66,74,74 | 1.51 | 12 (18%) | 73,114,114 | 1.84 | 11 (15%) |
| 25 | CLA | Q | 611 | - | 60,68,73 | 1.60 | 7 (11%) | 70,107,113 | 1.43 | 11 (15%) |
| 34 | LUT | S | 316 | - | 42,43,43 | 0.79 | 0 | 51,60,60 | 1.82 | 16 (31%) |
| 32 | LMG | 1 | 619 | - | 46,46,55 | 0.98 | 2 (4%) | 54,54,63 | 1.17 | 3 (5%) |
| 25 | CLA | R | 603 | - | 65,73,73 | 1.53 | 5 (7%) | 76,113,113 | 1.39 | 8 (10%) |
| 25 | CLA | B | 835 | - | 47,55,73 | 1.78 | 10 (21%) | 54,91,113 | 1.50 | 7 (12%) |
| 33 | CHL | S | 310 | 15 | 52,60,74 | 2.16 | 16 (30%) | 56,97,114 | 2.76 | 24 (42%) |
| 25 | CLA | 5 | 315 | 20 | 46,54,73 | 1.70 | 9 (19%) | 53,90,113 | 1.58 | 6 (11%) |
| 28 | BCR | A | 845 | - | 41,41,41 | 0.83 | 1 (2%) | 56,56,56 | 2.08 | 21 (37%) |
| 25 | CLA | A | 804 | - | 65,73,73 | 1.45 | 10 (15%) | 76,113,113 | 1.47 | 9 (11%) |
| 25 | CLA | O | 201 | - | 41,49,73 | 1.78 | 9 (21%) | 47,84,113 | 1.71 | 8 (17%) |
| 25 | CLA | H | 205 | 12 | 42,50,73 | 1.75 | 9 (21%) | 48,85,113 | 1.99 | 9 (18%) |
| 25 | CLA | 1 | 609 | 16 | 60,68,73 | 1.42 | 11 (18%) | 70,107,113 | 1.75 | 12 (17%) |
| 25 | CLA | 1 | 614 | - | 46,54,73 | 1.73 | 10 (21%) | 53,90,113 | 1.58 | 6 (11%) |
| 25 | CLA | A | 817 | - | 57,65,73 | 1.59 | 9 (15%) | 66,103,113 | 1.39 | 4 (6%) |
| 25 | CLA | 3 | 310 | - | 46,54,73 | 1.74 | 10 (21%) | 53,90,113 | 1.57 | 7 (13%) |
| 34 | LUT | T | 613 | - | 42,43,43 | 0.72 | 0 | 51,60,60 | 1.91 | 13 (25%) |
| 25 | CLA | A | 820 | - | 65,73,73 | 1.45 | 12 (18%) | 76,113,113 | 1.45 | 9 (11%) |
| 28 | BCR | 8 | 301 | - | 41,41,41 | 0.78 | 0 | 56,56,56 | 1.88 | 15 (26%) |
| 25 | CLA | A | 814 | - | 65,73,73 | 1.51 | 11 (16%) | 76,113,113 | 1.52 | 10 (13%) |
| 25 | CLA | 8 | 302 | 23 | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.33 | 9 (11%) |
| 34 | LUT | 1 | 617 | - | 42,43,43 | 0.79 | 0 | 51,60,60 | 2.17 | 18 (35%) |
| 25 | CLA | U | 302 | - | 65,73,73 | 1.51 | 6 (9%) | 76,113,113 | 1.41 | 9 (11%) |
| 34 | LUT | 6 | 619 | - | 42,43,43 | 0.89 | 1 (2%) | 51,60,60 | 1.82 | 14 (27%) |
| 34 | LUT | 5 | 322 | - | 42,43,43 | 1.01 | 2 (4%) | 51,60,60 | 1.64 | 13 (25%) |
| 25 | CLA | 5 | 314 | - | 45,53,73 | 1.78 | 9 (20%) | 52,89,113 | 1.58 | 8 (15%) |
| 25 | CLA | 2 | 311 | - | 52,60,73 | 1.63 | 10 (19%) | 60,97,113 | 1.50 | 8 (13%) |
| 25 | CLA | 9 | 302 | - | 46,54,73 | 1.74 | 7 (15%) | 53,90,113 | 1.53 | 5 (9%) |
| 25 | CLA | 5 | 324 | - | 65,73,73 | 1.48 | 9 (13%) | 76,113,113 | 1.33 | 6 (7%) |
| 25 | CLA | A | 832 | - | 65,73,73 | 1.45 | 10 (15%) | 76,113,113 | 1.43 | 7 (9%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | B | 817 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.40 | 8 (10%) |
| 25 | CLA | Q | 603 | - | 65,73,73 | 1.51 | 6 (9%) | 76,113,113 | 1.48 | 8 (10%) |
| 25 | CLA | 5 | 303 | - | 65,73,73 | 1.46 | 11 (16%) | 76,113,113 | 1.51 | 8 (10%) |
| 34 | LUT | 1 | 615 | - | 42,43,43 | 0.96 | 2 (4%) | 51,60,60 | 1.87 | 16 (31%) |
| 34 | LUT | 3 | 316 | - | 42,43,43 | 0.97 | 2 (4%) | 51,60,60 | 1.65 | 15 (29%) |
| 25 | CLA | B | 803 | - | 45,53,73 | 1.75 | 10 (22%) | 52,89,113 | 1.75 | 7 (13%) |
| 27 | LHG | Q | 617 | - | 48,48,48 | 0.93 | 2 (4%) | 51,54,54 | 0.99 | 2 (3%) |
| 25 | CLA | K | 203 | - | 46,54,73 | 1.73 | 10 (21%) | 53,90,113 | 1.57 | 7 (13%) |
| 35 | XAT | T | 615 | - | 39,47,47 | 0.92 | 0 | 54,74,74 | 3.00 | 21 (38%) |
| 25 | CLA | B | 813 | - | 57,65,73 | 1.56 | 10 (17%) | 66,103,113 | 1.46 | 8 (12%) |
| 25 | CLA | 5 | 309 | - | 50,58,73 | 1.68 | 10 (20%) | 58,95,113 | 1.49 | 9 (15%) |
| 27 | LHG | 4 | 318 | 25 | 48,48,48 | 0.92 | 2 (4%) | 51,54,54 | 1.09 | 3 (5%) |
| 25 | CLA | O | 202 | - | 36,46,73 | 1.96 | 10 (27%) | 41,80,113 | 1.72 | 8 (19%) |
| 25 | CLA | A | 837 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.45 | 9 (11%) |
| 33 | CHL | 6 | 608 | - | 51,59,74 | 2.03 | 16 (31%) | 55,96,114 | 3.09 | 30 (54%) |
| 34 | LUT | 7 | 315 | - | 42,43,43 | 0.93 | 2 (4%) | 51,60,60 | 1.56 | 12 (23%) |
| 25 | CLA | A | 830 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.52 | 10 (13%) |
| 25 | CLA | B | 832 | - | 45,53,73 | 1.78 | 10 (22%) | 52,89,113 | 1.58 | 6 (11%) |
| 25 | CLA | A | 807 | - | 65,73,73 | 1.50 | 11 (16%) | 76,113,113 | 1.48 | 8 (10%) |
| 27 | LHG | R | 618 | - | 48,48,48 | 0.93 | 2 (4%) | 51,54,54 | 0.96 | 2 (3%) |
| 25 | CLA | Q | 609 | - | 65,73,73 | 1.50 | 5 (7%) | 76,113,113 | 1.38 | 8 (10%) |
| 25 | CLA | 2 | 303 | 17 | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.38 | 8 (10%) |
| 25 | CLA | Q | 618 | - | 39,48,73 | 1.93 | 8 (20%) | 45,82,113 | 1.89 | 11 (24%) |
| 34 | LUT | 9 | 313 | - | 42,43,43 | 0.90 | 1 (2%) | 51,60,60 | 1.61 | 14 (27%) |
| 25 | CLA | 4 | 309 | 27 | 55,63,73 | 1.56 | 7 (12%) | 64,101,113 | 1.41 | 8 (12%) |
| 27 | LHG | 2 | 317 | - | 48,48,48 | 0.90 | 2 (4%) | 51,54,54 | 0.99 | 2 (3%) |
| 25 | CLA | T | 609 | - | 60,68,73 | 1.55 | 7 (11%) | 70,107,113 | 1.52 | 11 (15%) |
| 34 | LUT | 8 | 317 | - | 42,43,43 | 0.92 | 2 (4%) | 51,60,60 | 1.56 | 12 (23%) |
| 25 | CLA | T | 611 | - | 60,68,73 | 1.55 | 5 (8%) | 70,107,113 | 1.41 | 7 (10%) |
| 25 | CLA | 7 | 304 | - | 42,50,73 | 1.82 | 10 (23%) | 48,85,113 | 1.46 | 6 (12%) |
| 32 | LMG | 2 | 301 | - | 41,41,55 | 1.03 | 2 (4%) | 49,49,63 | 1.19 | 4 (8%) |
| 25 | CLA | A | 806 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.51 | 9 (11%) |
| 25 | CLA | 7 | 310 | - | 52,60,73 | 1.64 | 10 (19%) | 60,97,113 | 1.52 | 7 (11%) |
| 25 | CLA | B | 814 | - | 55,63,73 | 1.57 | 10 (18%) | 64,101,113 | 1.52 | 8 (12%) |
| 25 | CLA | R | 602 | - | 65,73,73 | 1.52 | 5 (7%) | 76,113,113 | 1.40 | 9 (11%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | 9 | 311 | - | 45,53,73 | 1.84 | 9 (20%) | 52,89,113 | 1.52 | 9 (17%) |
| 33 | CHL | 4 | 306 | - | 51,59,74 | 2.04 | 15 (29%) | 55,96,114 | 2.75 | 24 (43%) |
| 25 | CLA | H | 201 | - | 46,54,73 | 1.71 | 10 (21%) | 53,90,113 | 1.55 | 6 (11%) |
| 34 | LUT | 4 | 316 | - | 42,43,43 | 0.88 | 2 (4%) | 51,60,60 | 1.53 | 11 (21%) |
| 25 | CLA | K | 204 | - | 45,53,73 | 1.81 | 7 (15%) | 52,89,113 | 1.72 | 9 (17%) |
| 25 | CLA | 8 | 305 | - | 46,54,73 | 1.73 | 10 (21%) | 53,90,113 | 1.54 | 7 (13%) |
| 28 | BCR | 3 | 317 | - | 41,41,41 | 0.94 | 2 (4%) | 56,56,56 | 2.33 | 17 (30%) |
| 28 | BCR | 7 | 316 | - | 41,41,41 | 0.89 | 1 (2%) | 56,56,56 | 2.00 | 16 (28%) |
| 25 | CLA | A | 840 | - | 65,73,73 | 1.50 | 10 (15%) | 76,113,113 | 1.45 | 10 (13%) |
| 34 | LUT | 2 | 316 | - | 42,43,43 | 0.86 | 1 (2%) | 51,60,60 | 1.66 | 13 (25%) |
| 25 | CLA | A | 815 | - | 60,68,73 | 1.51 | 10 (16%) | 70,107,113 | 1.45 | 8 (11%) |
| 25 | CLA | 2 | 312 | - | 65,73,73 | 1.48 | 9 (13%) | 76,113,113 | 1.50 | 10 (13%) |
| 25 | CLA | L | 209 | - | 41,49,73 | 1.79 | 8 (19%) | 47,84,113 | 1.81 | 9 (19%) |
| 25 | CLA | B | 833 | - | 60,68,73 | 1.49 | 10 (16%) | 70,107,113 | 1.42 | 8 (11%) |
| 33 | CHL | S | 307 | - | 50,58,74 | 2.24 | 16 (32%) | 52,94,114 | 2.84 | 22 (42%) |
| 36 | NEX | T | 616 | - | 38,46,46 | 0.98 | 1 (2%) | 50,70,70 | 2.76 | 16 (32%) |
| 25 | CLA | B | 838 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.39 | 6 (7%) |
| 25 | CLA | 5 | 302 | 20 | 65,73,73 | 1.49 | 10 (15%) | 76,113,113 | 1.39 | 8 (10%) |
| 27 | LHG | P | 624 | - | 48,48,48 | 0.94 | 2 (4%) | 51,54,54 | 0.96 | 2 (3%) |
| 25 | CLA | R | 612 | - | 60,68,73 | 1.39 | 9 (15%) | 70,107,113 | 1.62 | 9 (12%) |
| 27 | LHG | 8 | 319 | 25 | 48,48,48 | 0.92 | 2 (4%) | 51,54,54 | 1.07 | 4 (7%) |
| 25 | CLA | 7 | 308 | - | 60,68,73 | 1.56 | 10 (16%) | 70,107,113 | 1.44 | 9 (12%) |
| 25 | CLA | J | 105 | - | 42,50,73 | 1.75 | 10 (23%) | 48,85,113 | 1.61 | 7 (14%) |
| 25 | CLA | B | 812 | - | 60,68,73 | 1.52 | 10 (16%) | 70,107,113 | 1.42 | 7 (10%) |
| 25 | CLA | 7 | 302 | - | 46,54,73 | 1.71 | 10 (21%) | 53,90,113 | 1.60 | 8 (15%) |
| 33 | CHL | S | 321 | - | 51,59,74 | 2.16 | 17 (33%) | 55,96,114 | 2.86 | 25 (45%) |
| 25 | CLA | 2 | 306 | 17 | 41,49,73 | 1.85 | 9 (21%) | 47,84,113 | 1.78 | 10 (21%) |
| 25 | CLA | 6 | 610 | - | 60,68,73 | 1.57 | 9 (15%) | 70,107,113 | 1.41 | 7 (10%) |
| 34 | LUT | 9 | 312 | - | 42,43,43 | 0.84 | 2 (4%) | 51,60,60 | 1.60 | 13 (25%) |
| 25 | CLA | 1 | 611 | - | 52,60,73 | 1.66 | 10 (19%) | 60,97,113 | 1.49 | 8 (13%) |
| 25 | CLA | 3 | 307 | - | 50,58,73 | 1.65 | 10 (20%) | 58,95,113 | 1.49 | 8 (13%) |
| 25 | CLA | a | 303 | - | 57,65,73 | 1.88 | 15 (26%) | 66,103,113 | 3.65 | 19 (28%) |
| 28 | BCR | 5 | 323 | - | 41,41,41 | 0.96 | 2 (4%) | 56,56,56 | 3.15 | 22 (39%) |
| 25 | CLA | A | 826 | - | 65,73,73 | 1.44 | 10 (15%) | 76,113,113 | 1.34 | 8 (10%) |
| 33 | CHL | 5 | 307 | - | 51,59,74 | 2.09 | 16 (31%) | 55,96,114 | 2.94 | 26 (47%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 28 | BCR | O | 205 | - | 41,41,41 | 0.82 | 1 (2%) | 56,56,56 | 2.18 | 16 (28%) |
| 25 | CLA | 9 | 301 | - | 54,62,73 | 1.64 | 9 (16%) | 67,100,113 | 1.55 | 11 (16%) |
| 36 | NEX | U | 316 | - | 38,46,46 | 0.99 | 1 (2%) | 50,70,70 | 2.72 | 18 (36%) |
| 28 | BCR | J | 106 | - | 41,41,41 | 0.86 | 2 (4%) | 56,56,56 | 2.25 | 18 (32%) |
| 25 | CLA | A | 828 | - | 65,73,73 | 1.45 | 10 (15%) | 76,113,113 | 1.49 | 8 (10%) |
| 27 | LHG | 1 | 618 | 25 | 42,42,48 | 0.96 | 2 (4%) | 45,48,54 | 1.22 | 4 (8%) |
| 28 | BCR | O | 204 | - | 41,41,41 | 0.86 | 2 (4%) | 56,56,56 | 2.34 | 21 (37%) |
| 25 | CLA | a | 309 | 27 | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.32 | 8 (10%) |
| 34 | LUT | 7 | 314 | - | 42,43,43 | 0.96 | 2 (4%) | 51,60,60 | 1.74 | 14 (27%) |
| 34 | LUT | 3 | 315 | - | 42,43,43 | 0.92 | 2 (4%) | 51,60,60 | 1.65 | 13 (25%) |
| 27 | LHG | P | 618 | - | 48,48,48 | 0.93 | 2 (4%) | 51,54,54 | 0.96 | 2 (3%) |
| 25 | CLA | B | 806 | - | 65,73,73 | 1.49 | 10 (15%) | 76,113,113 | 1.40 | 8 (10%) |
| 25 | CLA | 9 | 304 | - | 46,54,73 | 1.75 | 10 (21%) | 53,90,113 | 1.55 | 6 (11%) |
| 33 | CHL | R | 605 | 14 | 46,54,74 | 2.33 | 16 (34%) | 49,90,114 | 2.95 | 24 (48%) |
| 36 | NEX | P | 617 | - | 38,46,46 | 1.01 | 1 (2%) | 50,70,70 | 2.80 | 18 (36%) |
| 36 | NEX | R | 617 | - | 38,46,46 | 0.98 | 1 (2%) | 50,70,70 | 2.79 | 19 (38%) |
| 25 | CLA | U | 310 | - | 64,72,73 | 1.51 | 5 (7%) | 74,111,113 | 1.40 | 8 (10%) |
| 27 | LHG | S | 319 | - | 48,48,48 | 0.93 | 2 (4%) | 51,54,54 | 1.02 | 3 (5%) |
| 34 | LUT | 4 | 315 | - | 42,43,43 | 0.89 | 1 (2%) | 51,60,60 | 1.94 | 17 (33%) |
| 25 | CLA | B | 818 | - | 56,64,73 | 1.58 | 10 (17%) | 65,102,113 | 1.58 | 8 (12%) |
| 25 | CLA | B | 827 | - | 65,73,73 | 1.51 | 10 (15%) | 76,113,113 | 1.39 | 9 (11%) |
| 25 | CLA | 8 | 313 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.41 | 7 (9%) |
| 25 | CLA | 6 | 613 | - | 56,64,73 | 1.62 | 8 (14%) | 65,102,113 | 1.58 | 9 (13%) |
| 28 | BCR | 4 | 321 | - | 41,41,41 | 0.94 | 2 (4%) | 56,56,56 | 2.73 | 24 (42%) |
| 25 | CLA | L | 206 | - | 42,50,73 | 1.78 | 10 (23%) | 48,85,113 | 1.64 | 6 (12%) |
| 25 | CLA | 8 | 315 | 23 | 46,54,73 | 1.71 | 10 (21%) | 53,90,113 | 1.56 | 6 (11%) |
| 33 | CHL | T | 607 | - | 52,60,74 | 2.22 | 17 (32%) | 56,97,114 | 2.82 | 26 (46%) |
| 25 | CLA | 3 | 304 | - | 42,50,73 | 1.84 | 10 (23%) | 48,85,113 | 1.57 | 7 (14%) |
| 25 | CLA | A | 825 | - | 65,73,73 | 1.50 | 10 (15%) | 76,113,113 | 1.47 | 12 (15%) |
| 25 | CLA | 6 | 620 | - | 45,53,73 | 1.73 | 10 (22%) | 52,89,113 | 1.58 | 7 (13%) |
| 25 | CLA | S | 301 | - | 47,55,73 | 1.77 | 9 (19%) | 54,91,113 | 1.68 | 10 (18%) |
| 25 | CLA | B | 823 | - | 65,73,73 | 1.45 | 10 (15%) | 76,113,113 | 1.36 | 7 (9%) |
| 25 | CLA | K | 202 | - | 45,53,73 | 1.73 | 10 (22%) | 52,89,113 | 1.61 | 7 (13%) |
| 25 | CLA | 4 | 301 | - | 60,68,73 | 1.51 | 10 (16%) | 70,107,113 | 1.44 | 7 (10%) |
| 25 | CLA | 5 | 311 | - | 55,63,73 | 1.58 | 10 (18%) | 64,101,113 | 1.41 | 7 (10%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 33 | CHL | Q | 606 | - | 50,58,74 | 2.19 | 16 (32%) | 52,94,114 | 2.85 | 20 (38%) |
| 25 | CLA | 2 | 307 | - | 50,58,73 | 1.64 | 9 (18%) | 58,95,113 | 1.49 | 8 (13%) |
| 25 | CLA | H | 202 | - | 41,49,73 | 1.83 | 9 (21%) | 47,84,113 | 1.78 | 8 (17%) |
| 26 | PQN | A | 841 | - | 34,34,34 | 1.37 | 2 (5%) | 42,45,45 | 1.33 | 6 (14%) |
| 25 | CLA | A | 802 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.51 | 11 (14%) |
| 25 | CLA | F | 802 | - | 45,53,73 | 1.77 | 10 (22%) | 52,89,113 | 1.55 | 7 (13%) |
| 28 | BCR | F | 803 | - | 41,41,41 | 0.91 | 2 (4%) | 56,56,56 | 2.20 | 20 (35%) |
| 28 | BCR | A | 846 | - | 41,41,41 | 1.00 | 2 (4%) | 56,56,56 | 2.10 | 20 (35%) |
| 28 | BCR | I | 201 | - | 41,41,41 | 0.93 | 2 (4%) | 56,56,56 | 2.42 | 22 (39%) |
| 35 | XAT | P | 620 | - | 39,47,47 | 0.89 | 0 | 54,74,74 | 2.97 | 23 (42%) |
| 25 | CLA | P | 612 | - | 60,68,73 | 1.39 | 9 (15%) | 70,107,113 | 1.64 | 9 (12%) |
| 25 | CLA | 1 | 613 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.39 | 9 (11%) |
| 28 | BCR | K | 206 | - | 41,41,41 | 0.81 | 0 | 56,56,56 | 2.35 | 20 (35%) |
| 25 | CLA | 7 | 301 | - | 65,73,73 | 1.49 | 10 (15%) | 76,113,113 | 1.37 | 8 (10%) |
| 25 | CLA | 6 | 604 | - | 46,54,73 | 1.74 | 9 (19%) | 53,90,113 | 1.55 | 7 (13%) |
| 25 | CLA | L | 202 | - | 65,73,73 | 1.44 | 10 (15%) | 76,113,113 | 1.37 | 7 (9%) |
| 25 | CLA | A | 827 | - | 65,73,73 | 1.50 | 10 (15%) | 76,113,113 | 1.42 | 10 (13%) |
| 28 | BCR | 5 | 320 | - | 41,41,41 | 0.82 | 1 (2%) | 56,56,56 | 1.92 | 16 (28%) |
| 28 | BCR | B | 851 | - | 41,41,41 | 0.83 | 2 (4%) | 56,56,56 | 2.12 | 19 (33%) |
| 33 | CHL | 1 | 601 | 16 | 53,61,74 | 1.98 | 14 (26%) | 57,98,114 | 2.80 | 25 (43%) |
| 25 | CLA | T | 610 | - | 60,68,73 | 1.60 | 6 (10%) | 70,107,113 | 1.48 | 8 (11%) |
| 25 | CLA | 4 | 313 | 19 | 41,49,73 | 1.82 | 8 (19%) | 47,84,113 | 1.71 | 9 (19%) |
| 25 | CLA | G | 201 | - | 50,58,73 | 1.67 | 9 (18%) | 58,95,113 | 1.54 | 9 (15%) |
| 25 | CLA | 3 | 303 | - | 65,73,73 | 1.44 | 10 (15%) | 76,113,113 | 1.47 | 8 (10%) |
| 33 | CHL | 7 | 305 | - | 54,62,74 | 1.99 | 17 (31%) | 58,99,114 | 2.78 | 22 (37%) |
| 25 | CLA | B | 821 | - | 60,68,73 | 1.52 | 10 (16%) | 70,107,113 | 1.42 | 8 (11%) |
| 25 | CLA | U | 304 | - | 50,58,73 | 1.67 | 6 (12%) | 58,95,113 | 1.61 | 10 (17%) |
| 35 | XAT | S | 318 | - | 39,47,47 | 0.98 | 1 (2%) | 54,74,74 | 2.87 | 22 (40%) |
| 25 | CLA | J | 103 | - | 58,66,73 | 1.56 | 10 (17%) | 67,104,113 | 1.51 | 8 (11%) |
| 25 | CLA | Q | 613 | - | 48,56,73 | 1.81 | 7 (14%) | 55,92,113 | 1.57 | 8 (14%) |
| 33 | CHL | 6 | 607 | - | 53,61,74 | 2.02 | 15 (28%) | 57,98,114 | 2.80 | 25 (43%) |
| 33 | CHL | Q | 601 | - | 51,59,74 | 2.29 | 17 (33%) | 55,96,114 | 2.77 | 24 (43%) |
| 33 | CHL | 1 | 606 | - | 48,56,74 | 2.20 | 17 (35%) | 51,92,114 | 2.77 | 21 (41%) |
| 33 | CHL | U | 305 | 14 | 46,54,74 | 2.29 | 15 (32%) | 49,90,114 | 2.88 | 25 (51%) |
| 25 | CLA | 5 | 306 | - | 55,63,73 | 1.59 | 10 (18%) | 64,101,113 | 1.43 | 6 (9%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | 8 | 306 | - | 42,50,73 | 1.80 | 9 (21%) | 48,85,113 | 1.59 | 8 (16%) |
| 33 | CHL | 9 | 306 | - | 42,50,74 | 2.24 | 17 (40%) | 44,85,114 | 3.18 | 21 (47%) |
| 25 | CLA | A | 838 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.49 | 9 (11%) |
| 25 | CLA | H | 203 | - | 46,54,73 | 1.71 | 10 (21%) | 53,90,113 | 1.60 | 7 (13%) |
| 25 | CLA | 6 | 611 | 27 | 55,63,73 | 1.56 | 9 (16%) | 64,101,113 | 1.41 | 7 (10%) |
| 32 | LMG | J | 102 | - | 40,40,55 | 0.99 | 2 (5%) | 48,48,63 | 1.11 | 5 (10%) |
| 25 | CLA | 9 | 305 | - | 50,58,73 | 1.70 | 9 (18%) | 58,95,113 | 1.57 | 8 (13%) |
| 33 | CHL | 8 | 307 | - | 53,61,74 | 2.06 | 16 (30%) | 57,98,114 | 3.17 | 28 (49%) |
| 25 | CLA | R | 613 | - | 65,73,73 | 1.46 | 5 (7%) | 76,113,113 | 1.42 | 9 (11%) |
| 25 | CLA | S | 305 | - | 50,58,73 | 1.67 | 6 (12%) | 58,95,113 | 1.56 | 8 (13%) |
| 25 | CLA | B | 802 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.52 | 9 (11%) |
| 25 | CLA | R | 614 | - | 48,56,73 | 1.73 | 5 (10%) | 55,92,113 | 1.64 | 8 (14%) |
| 33 | CHL | Q | 607 | - | 44,52,74 | 2.20 | 15 (34%) | 46,87,114 | 2.91 | 22 (47%) |
| 25 | CLA | A | 801 | - | 65,73,73 | 1.44 | 10 (15%) | 76,113,113 | 1.38 | 7 (9%) |
| 27 | LHG | 7 | 317 | 25 | 36,36,48 | 1.00 | 2 (5%) | 39,42,54 | 1.31 | 4 (10%) |
| 33 | CHL | 4 | 322 | 16 | 53,61,74 | 2.03 | 15 (28%) | 57,98,114 | 2.95 | 26 (45%) |
| 34 | LUT | T | 614 | - | 42,43,43 | 0.76 | 0 | 51,60,60 | 1.73 | 14 (27%) |
| 28 | BCR | B | 842 | - | 41,41,41 | 1.02 | 2 (4%) | 56,56,56 | 2.27 | 20 (35%) |
| 33 | CHL | P | 608 | - | 44,52,74 | 2.20 | 16 (36%) | 46,87,114 | 2.91 | 22 (47%) |
| 34 | LUT | U | 314 | - | 42,43,43 | 0.73 | 0 | 51,60,60 | 1.91 | 14 (27%) |
| 25 | CLA | 7 | 313 | 22 | 46,54,73 | 1.70 | 10 (21%) | 53,90,113 | 1.54 | 6 (11%) |
| 25 | CLA | 5 | 319 | - | 46,54,73 | 1.77 | 9 (19%) | 53,90,113 | 1.60 | 8 (15%) |
| 33 | CHL | P | 605 | 14 | 48,56,74 | 2.25 | 17 (35%) | 51,92,114 | 2.97 | 24 (47%) |
| 25 | CLA | 4 | 302 | - | 46,54,73 | 1.78 | 8 (17%) | 53,90,113 | 1.54 | 6 (11%) |
| 25 | CLA | A | 816 | - | 65,73,73 | 1.48 | 9 (13%) | 76,113,113 | 1.45 | 8 (10%) |
| 33 | CHL | P | 607 | - | 52,60,74 | 2.14 | 17 (32%) | 56,97,114 | 2.83 | 27 (48%) |
| 34 | LUT | a | 316 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 2.13 | 15 (29%) |
| 25 | CLA | 2 | 308 | - | 43,51,73 | 1.77 | 10 (23%) | 49,86,113 | 1.60 | 9 (18%) |
| 25 | CLA | 3 | 320 | 22 | 65,73,73 | 1.43 | 11 (16%) | 76,113,113 | 1.44 | 8 (10%) |
| 33 | CHL | R | 609 | - | 66,74,74 | 1.50 | 11 (16%) | 73,114,114 | 1.84 | 11 (15%) |
| 34 | LUT | P | 615 | - | 42,43,43 | 0.81 | 0 | 51,60,60 | 1.78 | 18 (35%) |
| 33 | CHL | 5 | 317 | - | 43,51,74 | 2.12 | 14 (32%) | 45,86,114 | 3.06 | 21 (46%) |
| 33 | CHL | U | 308 | - | 44,52,74 | 2.22 | 15 (34%) | 46,87,114 | 2.90 | 21 (45%) |
| 25 | CLA | a | 311 | - | 65,73,73 | 1.46 | 9 (13%) | 76,113,113 | 1.60 | 9 (11%) |
| 25 | CLA | P | 610 | - | 60,68,73 | 1.54 | 6 (10%) | 70,107,113 | 1.39 | 8 (11%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | A | 851 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.37 | 8 (10%) |
| 25 | CLA | 8 | 309 | - | 46,54,73 | 1.72 | 9 (19%) | 53,90,113 | 1.59 | 6 (11%) |
| 25 | CLA | 7 | 311 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.43 | 8 (10%) |
| 25 | CLA | B | 831 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.43 | 8 (10%) |
| 28 | BCR | 6 | 621 | - | 41,41,41 | 0.83 | 1 (2%) | 56,56,56 | 2.23 | 18 (32%) |
| 27 | LHG | a | 317 | 25 | 42,42,48 | 0.95 | 2 (4%) | 45,48,54 | 1.21 | 4 (8%) |
| 25 | CLA | B | 820 | - | 59,67,73 | 1.51 | 10 (16%) | 68,105,113 | 1.52 | 8 (11%) |
| 25 | CLA | 2 | 309 | - | 60,68,73 | 1.52 | 9 (15%) | 70,107,113 | 1.45 | 6 (8%) |
| 27 | LHG | A | 844 | 25 | 37,37,48 | 1.05 | 3 (8%) | 40,43,54 | 1.20 | 3 (7%) |
| 27 | LHG | 5 | 301 | - | 44,44,48 | 0.96 | 2 (4%) | 47,50,54 | 1.05 | 3 (6%) |
| 25 | CLA | 2 | 313 | - | 55,63,73 | 1.61 | 8 (14%) | 64,101,113 | 1.56 | 12 (18%) |
| 25 | CLA | U | 311 | - | 54,62,73 | 1.66 | 8 (14%) | 57,97,113 | 1.40 | 7 (12%) |
| 33 | CHL | S | 306 | - | 48,56,74 | 2.20 | 15 (31%) | 51,92,114 | 2.80 | 25 (49%) |
| 25 | CLA | Q | 610 | - | 39,48,73 | 1.84 | 7 (17%) | 45,82,113 | 1.86 | 10 (22%) |
| 25 | CLA | A | 823 | - | 49,57,73 | 1.66 | 10 (20%) | 55,93,113 | 1.67 | 9 (16%) |
| 33 | CHL | T | 606 | - | 44,52,74 | 2.23 | 14 (31%) | 46,87,114 | 2.93 | 23 (50%) |
| 35 | XAT | P | 616 | - | 39,47,47 | 0.93 | 0 | 54,74,74 | 3.03 | 20 (37%) |
| 25 | CLA | T | 603 | - | 50,58,73 | 1.69 | 5 (10%) | 58,95,113 | 1.60 | 8 (13%) |
| 28 | BCR | A | 849 | - | 41,41,41 | 0.91 | 2 (4%) | 56,56,56 | 2.08 | 17 (30%) |
| 25 | CLA | B | 849 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.40 | 8 (10%) |
| 28 | BCR | B | 845 | - | 41,41,41 | 1.03 | 3 (7%) | 56,56,56 | 2.16 | 18 (32%) |
| 25 | CLA | B | 801 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.42 | 8 (10%) |
| 25 | CLA | a | 307 | - | 65,73,73 | 1.48 | 8 (12%) | 76,113,113 | 1.33 | 7 (9%) |
| 33 | CHL | 3 | 306 | - | 53,61,74 | 1.93 | 15 (28%) | 57,98,114 | 2.84 | 25 (43%) |
| 33 | CHL | U | 307 | - | 53,61,74 | 2.13 | 16 (30%) | 57,98,114 | 2.79 | 25 (43%) |
| 30 | DGD | B | 846 | - | 67,67,67 | 0.80 | 3 (4%) | 81,81,81 | 1.18 | 5 (6%) |
| 33 | CHL | 6 | 606 | - | 53,61,74 | 1.98 | 15 (28%) | 57,98,114 | 2.78 | 24 (42%) |
| 26 | PQN | B | 839 | - | 34,34,34 | 1.35 | 2 (5%) | 42,45,45 | 1.33 | 4 (9%) |
| 25 | CLA | L | 201 | - | 65,73,73 | 1.45 | 10 (15%) | 76,113,113 | 1.40 | 6 (7%) |
| 32 | LMG | J | 107 | - | 55,55,55 | 0.90 | 2 (3%) | 63,63,63 | 1.23 | 8 (12%) |
| 25 | CLA | B | 830 | - | 65,73,73 | 1.52 | 10 (15%) | 76,113,113 | 1.42 | 10 (13%) |
| 28 | BCR | B | 844 | - | 41,41,41 | 0.96 | 2 (4%) | 56,56,56 | 2.11 | 16 (28%) |
| 25 | CLA | 1 | 607 | - | 65,73,73 | 1.47 | 9 (13%) | 76,113,113 | 1.41 | 9 (11%) |
| 33 | CHL | S | 308 | - | 52,60,74 | 2.11 | 16 (30%) | 56,97,114 | 2.79 | 25 (44%) |
| 25 | CLA | P | 604 | - | 50,58,73 | 1.69 | 7 (14%) | 58,95,113 | 1.62 | 9 (15%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | S | 313 | - | 60,68,73 | 1.57 | 6 (10%) | 70,107,113 | 1.41 | 7 (10%) |
| 25 | CLA | A | 842 | 27 | 52,60,73 | 1.65 | 10 (19%) | 60,97,113 | 1.79 | 14 (23%) |
| 28 | BCR | 3 | 319 | - | 41,41,41 | 0.80 | 1 (2%) | 56,56,56 | 2.42 | 16 (28%) |
| 25 | CLA | 3 | 311 | - | 55,63,73 | 1.57 | 9 (16%) | 64,101,113 | 1.55 | 8 (12%) |
| 33 | CHL | S | 309 | - | 52,60,74 | 2.10 | 16 (30%) | 56,97,114 | 2.83 | 25 (44%) |
| 25 | CLA | B | 816 | - | 60,68,73 | 1.53 | 11 (18%) | 70,107,113 | 1.55 | 9 (12%) |
| 25 | CLA | A | 805 | - | 55,63,73 | 1.62 | 10 (18%) | 64,101,113 | 1.50 | 6 (9%) |
| 34 | LUT | P | 614 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.92 | 15 (29%) |
| 25 | CLA | U | 313 | - | 45,53,73 | 1.71 | 7 (15%) | 52,89,113 | 1.68 | 7 (13%) |
| 25 | CLA | 3 | 309 | - | 41,49,73 | 1.80 | 10 (24%) | 47,84,113 | 1.67 | 9 (19%) |
| 34 | LUT | R | 616 | - | 42,43,43 | 0.78 | 0 | 51,60,60 | 1.83 | 18 (35%) |
| 25 | CLA | Q | 604 | - | 50,58,73 | 1.71 | 6 (12%) | 58,95,113 | 1.64 | 9 (15%) |
| 33 | CHL | 4 | 304 | - | 42,50,74 | 2.25 | 15 (35%) | 44,85,114 | 2.98 | 21 (47%) |
| 25 | CLA | 3 | 313 | - | 46,54,73 | 1.68 | 10 (21%) | 53,90,113 | 1.58 | 6 (11%) |
| 25 | CLA | 8 | 303 | - | 62,70,73 | 1.53 | 11 (17%) | 72,109,113 | 1.44 | 6 (8%) |
| 25 | CLA | B | 810 | - | 65,73,73 | 1.49 | 10 (15%) | 76,113,113 | 1.41 | 8 (10%) |
| 27 | LHG | T | 617 | - | 48,48,48 | 0.94 | 2 (4%) | 51,54,54 | 0.93 | 2 (3%) |
| 28 | BCR | B | 841 | - | 41,41,41 | 0.95 | 2 (4%) | 56,56,56 | 2.24 | 18 (32%) |
| 25 | CLA | 9 | 303 | - | 60,68,73 | 1.51 | 10 (16%) | 70,107,113 | 1.42 | 7 (10%) |
| 28 | BCR | A | 847 | - | 41,41,41 | 0.92 | 2 (4%) | 56,56,56 | 2.00 | 18 (32%) |
| 33 | CHL | 5 | 308 | - | 51,59,74 | 2.00 | 16 (31%) | 55,96,114 | 2.96 | 27 (49%) |
| 32 | LMG | 6 | 602 | - | 40,40,55 | 1.03 | 2 (5%) | 48,48,63 | 1.41 | 6 (12%) |
| 25 | CLA | A | 821 | - | 45,53,73 | 1.75 | 10 (22%) | 52,89,113 | 1.76 | 10 (19%) |
| 25 | CLA | G | 202 | - | 46,54,73 | 1.74 | 9 (19%) | 53,90,113 | 1.69 | 9 (16%) |
| 25 | CLA | 8 | 312 | - | 52,60,73 | 1.61 | 9 (17%) | 60,97,113 | 1.49 | 6 (10%) |
| 33 | CHL | 9 | 307 | - | 51,59,74 | 2.11 | 16 (31%) | 55,96,114 | 2.81 | 24 (43%) |
| 25 | CLA | S | 314 | - | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.40 | 8 (10%) |
| 33 | CHL | P | 609 | - | 66,74,74 | 1.50 | 11 (16%) | 73,114,114 | 1.84 | 12 (16%) |
| 28 | BCR | J | 101 | - | 41,41,41 | 0.90 | 1 (2%) | 56,56,56 | 2.08 | 19 (33%) |
| 25 | CLA | 5 | 316 | - | 43,51,73 | 1.76 | 10 (23%) | 49,86,113 | 1.68 | 7 (14%) |
| 25 | CLA | 7 | 312 | - | 43,51,73 | 1.78 | 10 (23%) | 49,86,113 | 1.64 | 7 (14%) |
| 25 | CLA | B | 829 | - | 49,57,73 | 1.64 | 10 (20%) | 55,93,113 | 1.57 | 7 (12%) |
| 25 | CLA | A | 836 | - | 65,73,73 | 1.51 | 10 (15%) | 76,113,113 | 1.44 | 7 (9%) |
| 25 | CLA | 8 | 314 | - | 55,63,73 | 1.59 | 10 (18%) | 64,101,113 | 1.47 | 11 (17%) |
| 25 | CLA | R | 610 | - | 64,72,73 | 1.55 | 6 (9%) | 74,111,113 | 1.42 | 10 (13%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | 6 | 603 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.39 | 7 (9%) |
| 27 | LHG | A | 852 | - | 46,46,48 | 0.95 | 2 (4%) | 48,51,54 | 1.20 | 5 (10%) |
| 25 | CLA | S | 312 | - | 60,68,73 | 1.52 | 6 (10%) | 70,107,113 | 1.41 | 7 (10%) |
| 25 | CLA | A | 813 | - | 54,62,73 | 1.63 | 10 (18%) | 62,99,113 | 1.54 | 8 (12%) |
| 25 | CLA | S | 303 | 15 | 65,73,73 | 1.53 | 7 (10%) | 76,113,113 | 1.48 | 10 (13%) |
| 25 | CLA | 4 | 307 | - | 50,58,73 | 1.71 | 9 (18%) | 58,95,113 | 1.42 | 7 (12%) |
| 25 | CLA | a | 302 | - | 57,65,73 | 1.60 | 9 (15%) | 66,103,113 | 1.44 | 6 (9%) |
| 35 | XAT | P | 623 | - | 38,46,47 | 0.97 | 1 (2%) | 52,72,74 | 3.12 | 22 (42%) |
| 27 | LHG | 5 | 321 | - | 36,36,48 | 1.03 | 2 (5%) | 39,42,54 | 1.29 | 5 (12%) |
| 25 | CLA | B | 815 | - | 59,67,73 | 1.59 | 11 (18%) | 68,105,113 | 1.60 | 11 (16%) |
| 25 | CLA | 4 | 308 | 19 | 60,68,73 | 1.46 | 10 (16%) | 70,107,113 | 1.47 | 8 (11%) |
| 25 | CLA | T | 602 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.38 | 9 (11%) |
| 25 | CLA | 4 | 303 | - | 50,58,73 | 1.62 | 10 (20%) | 58,95,113 | 1.57 | 8 (13%) |
| 25 | CLA | 9 | 309 | - | 60,68,73 | 1.53 | 9 (15%) | 70,107,113 | 1.47 | 9 (12%) |
| 34 | LUT | 2 | 315 | - | 42,43,43 | 0.83 | 1 (2%) | 51,60,60 | 1.84 | 13 (25%) |
| 25 | CLA | B | 826 | - | 65,73,73 | 1.51 | 10 (15%) | 76,113,113 | 1.44 | 10 (13%) |
| 25 | CLA | L | 205 | - | 65,73,73 | 1.42 | 11 (16%) | 76,113,113 | 1.47 | 9 (11%) |
| 33 | CHL | R | 608 | - | 44,52,74 | 2.21 | 14 (31%) | 46,87,114 | 2.91 | 22 (47%) |
| 33 | CHL | 4 | 314 | 19 | 43,51,74 | 2.18 | 14 (32%) | 45,86,114 | 2.99 | 21 (46%) |
| 25 | CLA | 4 | 310 | - | 52,60,73 | 1.73 | 10 (19%) | 60,97,113 | 1.76 | 10 (16%) |
| 28 | BCR | G | 203 | - | 41,41,41 | 0.84 | 1 (2%) | 56,56,56 | 2.09 | 16 (28%) |
| 30 | DGD | B | 848 | - | 58,58,67 | 0.96 | 4 (6%) | 72,72,81 | 1.37 | 11 (15%) |
| 25 | CLA | B | 836 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.40 | 8 (10%) |
| 25 | CLA | a | 304 | - | 52,60,73 | 1.66 | 7 (13%) | 60,97,113 | 1.39 | 6 (10%) |
| 25 | CLA | 7 | 307 | - | 50,58,73 | 1.64 | 10 (20%) | 58,95,113 | 1.53 | 6 (10%) |
| 25 | CLA | B | 824 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.45 | 11 (14%) |
| 33 | CHL | P | 601 | - | 51,59,74 | 2.30 | 17 (33%) | 55,96,114 | 2.78 | 24 (43%) |
| 36 | NEX | U | 301 | - | 38,46,46 | 1.08 | 2 (5%) | 50,70,70 | 2.95 | 18 (36%) |
| 25 | CLA | a | 306 | - | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.43 | 10 (13%) |
| 25 | CLA | P | 603 | - | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.47 | 9 (11%) |
| 25 | CLA | R | 611 | - | 60,68,73 | 1.53 | 5 (8%) | 70,107,113 | 1.68 | 11 (15%) |
| 25 | CLA | 7 | 309 | 27 | 41,49,73 | 1.82 | 10 (24%) | 47,84,113 | 1.65 | 9 (19%) |
| 25 | CLA | 7 | 306 | - | 50,58,73 | 1.69 | 10 (20%) | 58,95,113 | 1.56 | 9 (15%) |
| 25 | CLA | B | 809 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.41 | 7 (9%) |
| 25 | CLA | K | 205 | - | 45,53,73 | 1.76 | 7 (15%) | 52,89,113 | 1.64 | 6 (11%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | 6 | 616 | - | 46,54,73 | 1.74 | 9 (19%) | 53,90,113 | 1.59 | 8 (15%) |
| 25 | CLA | B | 808 | 2 | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.41 | 9 (11%) |
| 33 | CHL | T | 601 | - | 50,58,74 | 2.33 | 17 (34%) | 52,94,114 | 2.79 | 22 (42%) |
| 25 | CLA | Q | 612 | - | 60,68,73 | 1.58 | 6 (10%) | 70,107,113 | 1.46 | 10 (14%) |
| 28 | BCR | B | 840 | - | 41,41,41 | 0.93 | 1 (2%) | 56,56,56 | 2.11 | 15 (26%) |
| 25 | CLA | B | 819 | - | 46,54,73 | 1.70 | 10 (21%) | 53,90,113 | 1.64 | 9 (16%) |
| 25 | CLA | U | 312 | - | 65,73,73 | 1.49 | 6 (9%) | 76,113,113 | 1.37 | 7 (9%) |
| 25 | CLA | A | 808 | - | 65,73,73 | 1.49 | 9 (13%) | 76,113,113 | 1.40 | 9 (11%) |
| 25 | CLA | 1 | 605 | - | 52,60,73 | 1.69 | 8 (15%) | 60,97,113 | 1.46 | 8 (13%) |
| 33 | CHL | a | 305 | - | 48,56,74 | 2.23 | 17 (35%) | 51,92,114 | 2.76 | 21 (41%) |
| 28 | BCR | F | 801 | - | 41,41,41 | 0.90 | 2 (4%) | 56,56,56 | 2.10 | 17 (30%) |
| 25 | CLA | 5 | 310 | - | 60,68,73 | 1.44 | 9 (15%) | 70,107,113 | 1.45 | 8 (11%) |
| 25 | CLA | B | 828 | - | 50,58,73 | 1.66 | 10 (20%) | 58,95,113 | 1.56 | 6 (10%) |
| 29 | SF4 | C | 102 | 3 | 0,12,12 | - | - | - | - | - |
| 33 | CHL | T | 604 | 14 | 48,56,74 | 2.23 | 16 (33%) | 51,92,114 | 2.91 | 25 (49%) |
| 25 | CLA | A | 833 | - | 50,58,73 | 1.66 | 10 (20%) | 58,95,113 | 1.64 | 8 (13%) |
| 25 | CLA | P | 602 | - | 65,73,73 | 1.47 | 5 (7%) | 76,113,113 | 1.39 | 8 (10%) |
| 25 | CLA | 5 | 312 | - | 52,60,73 | 1.68 | 9 (17%) | 60,97,113 | 1.52 | 8 (13%) |
| 28 | BCR | 8 | 318 | - | 41,41,41 | 0.82 | 1 (2%) | 56,56,56 | 2.16 | 20 (35%) |
| 33 | CHL | P | 619 | - | 52,60,74 | 2.14 | 17 (32%) | 56,97,114 | 2.84 | 27 (48%) |
| 33 | CHL | U | 306 | - | 50,58,74 | 2.18 | 16 (32%) | 52,94,114 | 2.82 | 23 (44%) |
| 33 | CHL | R | 601 | - | 51,59,74 | 2.29 | 17 (33%) | 55,96,114 | 2.78 | 24 (43%) |
| 25 | CLA | 6 | 601 | 19 | 61,69,73 | 1.48 | 9 (14%) | 71,108,113 | 1.44 | 7 (9%) |
| 25 | CLA | 2 | 314 | - | 46,54,73 | 1.76 | 10 (21%) | 53,90,113 | 1.54 | 7 (13%) |
| 25 | CLA | 1 | 603 | - | 65,73,73 | 1.45 | 10 (15%) | 76,113,113 | 1.34 | 8 (10%) |
| 25 | CLA | 6 | 623 | - | 60,68,73 | 1.50 | 9 (15%) | 70,107,113 | 1.58 | 9 (12%) |
| 25 | CLA | 5 | 313 | - | 56,64,73 | 1.60 | 11 (19%) | 65,102,113 | 1.79 | 14 (21%) |
| 25 | CLA | Q | 602 | - | 65,73,73 | 1.51 | 6 (9%) | 76,113,113 | 1.39 | 7 (9%) |
| 25 | CLA | A | 829 | - | 65,73,73 | 1.49 | 11 (16%) | 76,113,113 | 1.47 | 9 (11%) |
| 27 | LHG | A | 843 | - | 48,48,48 | 0.90 | 2 (4%) | 51,54,54 | 1.13 | 3 (5%) |
| 28 | BCR | L | 204 | - | 41,41,41 | 1.01 | 2 (4%) | 56,56,56 | 2.21 | 23 (41%) |
| 25 | CLA | A | 839 | - | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.50 | 8 (10%) |
| 25 | CLA | 4 | 312 | - | 45,53,73 | 1.76 | 8 (17%) | 52,89,113 | 1.52 | 8 (15%) |
| 33 | CHL | R | 607 | - | 52,60,74 | 2.13 | 17 (32%) | 56,97,114 | 2.83 | 27 (48%) |
| 32 | LMG | 4 | 320 | - | 40,40,55 | 1.06 | 3 (7%) | 48,48,63 | 1.30 | 6 (12%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 25 | CLA | 2 | 304 | - | 65,73,73 | 1.49 | 10 (15%) | 76,113,113 | 1.42 | 7 (9%) |
| 28 | BCR | A | 848 | - | 41,41,41 | 0.91 | 1 (2%) | 56,56,56 | 1.97 | 16 (28%) |
| 25 | CLA | 1 | 604 | - | 57,65,73 | 1.59 | 10 (17%) | 66,103,113 | 1.43 | 8 (12%) |
| 25 | CLA | A | 810 | 1 | 65,73,73 | 1.47 | 10 (15%) | 76,113,113 | 1.41 | 9 (11%) |
| 25 | CLA | 8 | 308 | - | 50,58,73 | 1.63 | 12 (24%) | 58,95,113 | 1.68 | 8 (13%) |
| 27 | LHG | 6 | 618 | 25 | 48,48,48 | 0.87 | 2 (4%) | 51,54,54 | 1.22 | 4 (7%) |
| 25 | CLA | 6 | 612 | - | 52,60,73 | 1.73 | 8 (15%) | 60,97,113 | 1.46 | 6 (10%) |
| 34 | LUT | R | 615 | - | 42,43,43 | 0.76 | 0 | 51,60,60 | 1.93 | 14 (27%) |
| 33 | CHL | R | 606 | - | 50,58,74 | 2.16 | 17 (34%) | 52,94,114 | 2.82 | 24 (46%) |
| 31 | SQD | B | 850 | - | 50,51,54 | 1.21 | 4 (8%) | 59,62,65 | 1.21 | 7 (11%) |
| 25 | CLA | S | 320 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.43 | 8 (10%) |
| 25 | CLA | A | 812 | - | 65,73,73 | 1.49 | 10 (15%) | 76,113,113 | 1.44 | 9 (11%) |
| 25 | CLA | 3 | 305 | 18 | 60,68,73 | 1.51 | 10 (16%) | 70,107,113 | 1.46 | 8 (11%) |
| 27 | LHG | B | 847 | - | 37,37,48 | 1.03 | 2 (5%) | 40,43,54 | 1.20 | 5 (12%) |
| 33 | CHL | 4 | 305 | - | 51,59,74 | 2.22 | 17 (33%) | 55,96,114 | 2.77 | 23 (41%) |
| 25 | CLA | A | 811 | - | 65,73,73 | 1.48 | 10 (15%) | 76,113,113 | 1.49 | 8 (10%) |
| 25 | CLA | A | 818 | - | 65,73,73 | 1.45 | 9 (13%) | 76,113,113 | 1.38 | 8 (10%) |
| 33 | CHL | 6 | 617 | 21 | 43,51,74 | 2.18 | 14 (32%) | 45,86,114 | 3.01 | 22 (48%) |
| 25 | CLA | A | 803 | - | 65,73,73 | 1.46 | 10 (15%) | 76,113,113 | 1.37 | 7 (9%) |
| 25 | CLA | B | 804 | - | 65,73,73 | 1.50 | 10 (15%) | 76,113,113 | 1.45 | 9 (11%) |
| 33 | CHL | Q | 605 | 14 | 42,50,74 | 2.39 | 16 (38%) | 44,85,114 | 3.11 | 22 (50%) |
| 33 | CHL | U | 309 | - | 48,56,74 | 2.34 | 17 (35%) | 51,92,114 | 2.92 | 22 (43%) |
| 25 | CLA | A | 824 | - | 55,63,73 | 1.59 | 10 (18%) | 64,101,113 | 1.53 | 8 (12%) |
| 28 | BCR | B | 843 | - | 41,41,41 | 0.86 | 2 (4%) | 56,56,56 | 1.86 | 18 (32%) |
| 34 | LUT | S | 317 | - | 42,43,43 | 0.77 | 0 | 51,60,60 | 1.65 | 9 (17%) |
| 25 | CLA | 5 | 305 | - | 50,58,73 | 1.66 | 11 (22%) | 58,95,113 | 1.56 | 8 (13%) |

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 |
|-----|------|-------|-----|------|---------|------------|---------|
| 34 | LUT | Q | 615 | - | - | 2/29/67/67 | 0/2/2/2 |
| 34 | LUT | 6 | 622 | - | - | 1/29/67/67 | 0/2/2/2 |
| 28 | BCR | 3 | 318 | - | - | 8/29/63/63 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 8 | 311 | 27 | 1/1/11/20 | 5/15/93/115 | - |
| 28 | BCR | L | 203 | - | - | 4/29/63/63 | 0/2/2/2 |
| 25 | CLA | 3 | 314 | - | 1/1/13/20 | 13/27/105/115 | - |
| 28 | BCR | A | 854 | - | - | 2/29/63/63 | 0/2/2/2 |
| 28 | BCR | L | 208 | - | - | 2/29/63/63 | 0/2/2/2 |
| 25 | CLA | a | 301 | - | 1/1/15/20 | 10/37/115/115 | - |
| 25 | CLA | 8 | 304 | - | 1/1/11/20 | 8/13/91/115 | - |
| 29 | SF4 | C | 101 | 3 | - | - | 0/6/5/5 |
| 25 | CLA | 7 | 303 | - | 1/1/13/20 | 9/27/105/115 | - |
| 28 | BCR | 4 | 317 | - | - | 8/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 819 | - | 1/1/15/20 | 12/37/115/115 | - |
| 34 | LUT | a | 315 | - | - | 4/29/67/67 | 0/2/2/2 |
| 33 | CHL | S | 302 | - | 3/3/17/26 | 13/24/122/137 | - |
| 25 | CLA | 1 | 608 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 6 | 605 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | A | 853 | - | 1/1/15/20 | 15/37/115/115 | - |
| 32 | LMG | H | 204 | - | - | 14/42/62/70 | 0/1/1/1 |
| 25 | CLA | a | 308 | 16 | 1/1/14/20 | 7/31/109/115 | - |
| 25 | CLA | 1 | 610 | 27 | 1/1/15/20 | 10/37/115/115 | - |
| 27 | LHG | 4 | 319 | - | - | 7/36/36/53 | - |
| 25 | CLA | 6 | 609 | - | 1/1/12/20 | 8/19/97/115 | - |
| 25 | CLA | 6 | 614 | - | 1/1/11/20 | 3/13/91/115 | - |
| 25 | CLA | S | 311 | - | 1/1/14/20 | 7/31/109/115 | - |
| 25 | CLA | B | 807 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 1 | 602 | - | 1/1/15/20 | 9/37/115/115 | - |
| 25 | CLA | A | 822 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | 3 | 308 | - | 1/1/15/20 | 12/37/115/115 | - |
| 33 | CHL | P | 622 | - | 3/3/17/26 | 9/24/122/137 | - |
| 25 | CLA | 3 | 301 | - | 1/1/14/20 | 3/31/109/115 | - |
| 25 | CLA | a | 310 | - | 1/1/12/20 | 8/22/100/115 | - |
| 35 | XAT | Q | 616 | - | - | 4/31/93/93 | 0/4/4/4 |
| 34 | LUT | a | 314 | - | - | 2/29/67/67 | 0/2/2/2 |
| 25 | CLA | O | 203 | - | 1/1/10/20 | 0/4/80/115 | - |
| 32 | LMG | 7 | 318 | - | - | 11/30/50/70 | 0/1/1/1 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 32 | LMG | J | 104 | - | - | 13/30/50/70 | 0/1/1/1 |
| 25 | CLA | A | 809 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 25 | CLA | 2 | 305 | - | 1/1/12/20 | 7/22/100/115 | - |
| 25 | CLA | T | 612 | - | 1/1/11/20 | 9/17/95/115 | - |
| 25 | CLA | B | 811 | - | 1/1/15/20 | 15/37/115/115 | - |
| 25 | CLA | U | 303 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 9 | 308 | - | 1/1/12/20 | 4/19/97/115 | - |
| 25 | CLA | 4 | 311 | - | 1/1/13/20 | 14/27/105/115 | - |
| 29 | SF4 | A | 850 | 2,1 | - | - | 0/6/5/5 |
| 25 | CLA | A | 835 | - | 1/1/12/20 | 6/21/99/115 | - |
| 28 | BCR | L | 207 | - | - | 8/29/63/63 | 0/2/2/2 |
| 25 | CLA | a | 313 | - | 1/1/11/20 | 4/15/93/115 | - |
| 25 | CLA | 6 | 615 | 21 | 1/1/11/20 | 4/15/93/115 | - |
| 25 | CLA | 2 | 302 | 17 | 1/1/11/20 | 11/15/93/115 | - |
| 25 | CLA | B | 837 | - | 1/1/15/20 | 15/37/115/115 | - |
| 25 | CLA | P | 613 | - | 1/1/13/20 | 9/29/107/115 | - |
| 33 | CHL | P | 606 | - | 3/3/16/26 | 7/20/118/137 | - |
| 25 | CLA | S | 304 | - | 1/1/15/20 | 12/37/115/115 | - |
| 34 | LUT | 1 | 616 | - | - | 4/29/67/67 | 0/2/2/2 |
| 25 | CLA | 8 | 310 | - | 1/1/14/20 | 8/31/109/115 | - |
| 25 | CLA | K | 201 | - | 1/1/12/20 | 8/21/99/115 | - |
| 25 | CLA | 2 | 310 | - | 1/1/10/20 | 2/8/86/115 | - |
| 36 | NEX | P | 621 | - | - | 10/27/83/83 | 0/3/3/3 |
| 25 | CLA | A | 834 | 1 | 1/1/11/20 | 9/13/91/115 | - |
| 25 | CLA | 3 | 302 | - | 1/1/15/20 | 8/37/115/115 | - |
| 33 | CHL | T | 605 | - | 3/3/16/26 | 7/20/118/137 | - |
| 34 | LUT | U | 315 | - | - | 2/29/67/67 | 0/2/2/2 |
| 34 | LUT | 8 | 316 | - | - | 1/29/67/67 | 0/2/2/2 |
| 32 | LMG | 7 | 319 | - | - | 13/31/51/70 | 0/1/1/1 |
| 25 | CLA | B | 822 | - | 1/1/15/20 | 14/37/115/115 | - |
| 34 | LUT | 5 | 318 | - | - | 0/29/67/67 | 0/2/2/2 |
| 25 | CLA | T | 608 | - | 1/1/15/20 | 12/37/115/115 | - |
| 25 | CLA | A | 831 | - | 1/1/12/20 | 8/19/97/115 | - |
| 25 | CLA | P | 611 | - | 1/1/10/20 | 4/8/86/115 | - |
| 25 | CLA | S | 315 | - | 1/1/11/20 | 6/17/95/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 3 | 312 | - | 1/1/11/20 | 4/13/91/115 | - |
| 25 | CLA | 5 | 304 | - | 1/1/11/20 | 5/15/93/115 | - |
| 25 | CLA | B | 834 | - | 1/1/15/20 | 20/37/115/115 | - |
| 25 | CLA | 1 | 612 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | B | 805 | - | 1/1/15/20 | 16/37/115/115 | - |
| 25 | CLA | 9 | 310 | 24 | 1/1/12/20 | 10/19/97/115 | - |
| 25 | CLA | R | 604 | - | 1/1/12/20 | 6/19/97/115 | - |
| 25 | CLA | B | 825 | - | 1/1/15/20 | 13/37/115/115 | - |
| 34 | LUT | Q | 614 | - | - | 0/29/67/67 | 0/2/2/2 |
| 25 | CLA | a | 312 | - | 1/1/15/20 | 9/37/115/115 | - |
| 33 | CHL | Q | 608 | - | 3/3/20/26 | 16/39/137/137 | - |
| 25 | CLA | Q | 611 | - | 1/1/14/20 | 7/31/109/115 | - |
| 34 | LUT | S | 316 | - | - | 5/29/67/67 | 0/2/2/2 |
| 32 | LMG | 1 | 619 | - | - | 15/41/61/70 | 0/1/1/1 |
| 25 | CLA | R | 603 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | B | 835 | - | 1/1/11/20 | 4/16/94/115 | - |
| 33 | CHL | S | 310 | 15 | 3/3/17/26 | 7/23/121/137 | - |
| 25 | CLA | 5 | 315 | 20 | 1/1/11/20 | 6/15/93/115 | - |
| 28 | BCR | A | 845 | - | - | 3/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 804 | - | 1/1/15/20 | 9/37/115/115 | - |
| 25 | CLA | O | 201 | - | 1/1/10/20 | 6/8/86/115 | - |
| 25 | CLA | H | 205 | 12 | 1/1/10/20 | 2/10/88/115 | - |
| 25 | CLA | 1 | 609 | 16 | 1/1/14/20 | 7/31/109/115 | - |
| 25 | CLA | 1 | 614 | - | 1/1/11/20 | 4/15/93/115 | - |
| 25 | CLA | A | 817 | - | 1/1/13/20 | 3/28/106/115 | - |
| 25 | CLA | 3 | 310 | - | 1/1/11/20 | 5/15/93/115 | - |
| 34 | LUT | T | 613 | - | - | 0/29/67/67 | 0/2/2/2 |
| 25 | CLA | A | 820 | - | 1/1/15/20 | 12/37/115/115 | - |
| 28 | BCR | 8 | 301 | - | - | 3/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 814 | - | 1/1/15/20 | 19/37/115/115 | - |
| 25 | CLA | 8 | 302 | 23 | 1/1/15/20 | 13/37/115/115 | - |
| 34 | LUT | 1 | 617 | - | - | 6/29/67/67 | 0/2/2/2 |
| 25 | CLA | U | 302 | - | 1/1/15/20 | 8/37/115/115 | - |
| 34 | LUT | 6 | 619 | - | - | 1/29/67/67 | 0/2/2/2 |
| 34 | LUT | 5 | 322 | - | - | 0/29/67/67 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 5 | 314 | - | 1/1/11/20 | 5/13/91/115 | - |
| 25 | CLA | 2 | 311 | - | 1/1/12/20 | 8/22/100/115 | - |
| 25 | CLA | 9 | 302 | - | 1/1/11/20 | 9/15/93/115 | - |
| 25 | CLA | 5 | 324 | - | 1/1/15/20 | 17/37/115/115 | - |
| 25 | CLA | A | 832 | - | 1/1/15/20 | 13/37/115/115 | - |
| 25 | CLA | B | 817 | - | 1/1/15/20 | 5/37/115/115 | - |
| 25 | CLA | Q | 603 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 5 | 303 | - | - | 13/37/115/115 | - |
| 34 | LUT | 1 | 615 | - | - | 2/29/67/67 | 0/2/2/2 |
| 34 | LUT | 3 | 316 | - | - | 0/29/67/67 | 0/2/2/2 |
| 25 | CLA | B | 803 | - | 1/1/11/20 | 5/13/91/115 | - |
| 27 | LHG | Q | 617 | - | - | 13/53/53/53 | - |
| 25 | CLA | K | 203 | - | 1/1/11/20 | 6/15/93/115 | - |
| 35 | XAT | T | 615 | - | - | 4/31/93/93 | 0/4/4/4 |
| 25 | CLA | B | 813 | - | 1/1/13/20 | 8/28/106/115 | - |
| 25 | CLA | 5 | 309 | - | 1/1/12/20 | 10/19/97/115 | - |
| 27 | LHG | 4 | 318 | 25 | - | 20/53/53/53 | - |
| 25 | CLA | O | 202 | - | 1/1/9/20 | 0/4/78/115 | - |
| 25 | CLA | A | 837 | - | 1/1/15/20 | 10/37/115/115 | - |
| 33 | CHL | 6 | 608 | - | 3/3/17/26 | 10/21/119/137 | - |
| 34 | LUT | 7 | 315 | - | - | 2/29/67/67 | 0/2/2/2 |
| 25 | CLA | A | 830 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | B | 832 | - | 1/1/11/20 | 5/13/91/115 | - |
| 25 | CLA | A | 807 | - | 1/1/15/20 | 21/37/115/115 | - |
| 27 | LHG | R | 618 | - | - | 13/53/53/53 | - |
| 25 | CLA | Q | 609 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 2 | 303 | 17 | 1/1/15/20 | 13/37/115/115 | - |
| 25 | CLA | Q | 618 | - | - | 0/8/82/115 | - |
| 34 | LUT | 9 | 313 | - | - | 2/29/67/67 | 0/2/2/2 |
| 25 | CLA | 4 | 309 | 27 | 1/1/13/20 | 8/25/103/115 | - |
| 27 | LHG | 2 | 317 | - | - | 24/53/53/53 | - |
| 25 | CLA | T | 609 | - | - | 12/31/109/115 | - |
| 34 | LUT | 8 | 317 | - | - | 1/29/67/67 | 0/2/2/2 |
| 25 | CLA | T | 611 | - | 1/1/14/20 | 11/31/109/115 | - |
| 25 | CLA | 7 | 304 | - | 1/1/10/20 | 8/10/88/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 32 | LMG | 2 | 301 | - | - | 12/36/56/70 | 0/1/1/1 |
| 25 | CLA | A | 806 | - | 1/1/15/20 | 17/37/115/115 | - |
| 25 | CLA | 7 | 310 | - | 1/1/12/20 | 7/22/100/115 | - |
| 25 | CLA | B | 814 | - | 1/1/13/20 | 7/25/103/115 | - |
| 25 | CLA | R | 602 | - | 1/1/15/20 | 8/37/115/115 | - |
| 25 | CLA | 9 | 311 | - | 1/1/11/20 | 0/13/91/115 | - |
| 33 | CHL | 4 | 306 | - | 3/3/17/26 | 4/21/119/137 | - |
| 25 | CLA | H | 201 | - | 1/1/11/20 | 8/15/93/115 | - |
| 34 | LUT | 4 | 316 | - | - | 4/29/67/67 | 0/2/2/2 |
| 25 | CLA | K | 204 | - | 1/1/11/20 | 7/13/91/115 | - |
| 25 | CLA | 8 | 305 | - | 1/1/11/20 | 4/15/93/115 | - |
| 28 | BCR | 3 | 317 | - | - | 6/29/63/63 | 0/2/2/2 |
| 28 | BCR | 7 | 316 | - | - | 2/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 840 | - | 1/1/15/20 | 15/37/115/115 | - |
| 34 | LUT | 2 | 316 | - | - | 0/29/67/67 | 0/2/2/2 |
| 25 | CLA | A | 815 | - | 1/1/14/20 | 15/31/109/115 | - |
| 25 | CLA | 2 | 312 | - | 1/1/15/20 | 12/37/115/115 | - |
| 25 | CLA | L | 209 | - | 1/1/10/20 | 4/8/86/115 | - |
| 25 | CLA | B | 833 | - | 1/1/14/20 | 5/31/109/115 | - |
| 33 | CHL | S | 307 | - | 3/3/16/26 | 4/20/118/137 | - |
| 36 | NEX | T | 616 | - | - | 7/27/83/83 | 0/3/3/3 |
| 25 | CLA | B | 838 | - | 1/1/15/20 | 9/37/115/115 | - |
| 25 | CLA | 5 | 302 | 20 | 1/1/15/20 | 10/37/115/115 | - |
| 27 | LHG | P | 624 | - | - | 12/53/53/53 | - |
| 25 | CLA | R | 612 | - | 1/1/14/20 | 13/31/109/115 | - |
| 27 | LHG | 8 | 319 | 25 | - | 17/53/53/53 | - |
| 25 | CLA | 7 | 308 | - | 1/1/14/20 | 10/31/109/115 | - |
| 25 | CLA | J | 105 | - | 1/1/10/20 | 6/10/88/115 | - |
| 25 | CLA | B | 812 | - | 1/1/14/20 | 10/31/109/115 | - |
| 25 | CLA | 7 | 302 | - | 1/1/11/20 | 3/15/93/115 | - |
| 33 | CHL | S | 321 | - | 3/3/17/26 | 9/21/119/137 | - |
| 25 | CLA | 2 | 306 | 17 | 1/1/10/20 | 2/8/86/115 | - |
| 25 | CLA | 6 | 610 | - | 1/1/14/20 | 8/31/109/115 | - |
| 34 | LUT | 9 | 312 | - | - | 2/29/67/67 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 1 | 611 | - | 1/1/12/20 | 8/22/100/115 | - |
| 25 | CLA | 3 | 307 | - | 1/1/12/20 | 7/19/97/115 | - |
| 25 | CLA | a | 303 | - | 1/1/13/20 | 10/28/106/115 | - |
| 28 | BCR | 5 | 323 | - | - | 8/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 826 | - | 1/1/15/20 | 6/37/115/115 | - |
| 33 | CHL | 5 | 307 | - | 3/3/17/26 | 9/21/119/137 | - |
| 28 | BCR | O | 205 | - | - | 4/29/63/63 | 0/2/2/2 |
| 25 | CLA | 9 | 301 | - | 1/1/13/20 | 5/25/101/115 | - |
| 36 | NEX | U | 316 | - | - | 7/27/83/83 | 0/3/3/3 |
| 28 | BCR | J | 106 | - | - | 6/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 828 | - | 1/1/15/20 | 15/37/115/115 | - |
| 27 | LHG | 1 | 618 | 25 | - | 15/47/47/53 | - |
| 28 | BCR | O | 204 | - | - | 5/29/63/63 | 0/2/2/2 |
| 25 | CLA | a | 309 | 27 | 1/1/15/20 | 10/37/115/115 | - |
| 34 | LUT | 7 | 314 | - | - | 2/29/67/67 | 0/2/2/2 |
| 34 | LUT | 3 | 315 | - | - | 0/29/67/67 | 0/2/2/2 |
| 27 | LHG | P | 618 | - | - | 12/53/53/53 | - |
| 25 | CLA | B | 806 | - | 1/1/15/20 | 10/37/115/115 | - |
| 25 | CLA | 9 | 304 | - | 1/1/11/20 | 6/15/93/115 | - |
| 33 | CHL | R | 605 | 14 | 3/3/16/26 | 4/15/113/137 | - |
| 36 | NEX | P | 617 | - | - | 7/27/83/83 | 0/3/3/3 |
| 36 | NEX | R | 617 | - | - | 6/27/83/83 | 0/3/3/3 |
| 25 | CLA | U | 310 | - | 1/1/14/20 | 10/36/114/115 | - |
| 27 | LHG | S | 319 | - | - | 10/53/53/53 | - |
| 34 | LUT | 4 | 315 | - | - | 1/29/67/67 | 0/2/2/2 |
| 25 | CLA | B | 818 | - | 1/1/13/20 | 9/27/105/115 | - |
| 25 | CLA | B | 827 | - | 1/1/15/20 | 7/37/115/115 | - |
| 25 | CLA | 8 | 313 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 6 | 613 | - | 1/1/13/20 | 9/27/105/115 | - |
| 28 | BCR | 4 | 321 | - | - | 7/29/63/63 | 0/2/2/2 |
| 25 | CLA | L | 206 | - | 1/1/10/20 | 4/10/88/115 | - |
| 25 | CLA | 8 | 315 | 23 | 1/1/11/20 | 5/15/93/115 | - |
| 33 | CHL | T | 607 | - | 3/3/17/26 | 6/23/121/137 | - |
| 25 | CLA | 3 | 304 | - | 1/1/10/20 | 0/10/88/115 | - |
| 25 | CLA | A | 825 | - | 1/1/15/20 | 20/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 6 | 620 | - | 1/1/11/20 | 6/13/91/115 | - |
| 25 | CLA | S | 301 | - | 1/1/11/20 | 7/16/94/115 | - |
| 25 | CLA | B | 823 | - | 1/1/15/20 | 5/37/115/115 | - |
| 25 | CLA | K | 202 | - | 1/1/11/20 | 4/13/91/115 | - |
| 25 | CLA | 4 | 301 | - | 1/1/14/20 | 11/31/109/115 | - |
| 25 | CLA | 5 | 311 | - | 1/1/13/20 | 8/25/103/115 | - |
| 33 | CHL | Q | 606 | - | 3/3/16/26 | 7/20/118/137 | - |
| 25 | CLA | 2 | 307 | - | 1/1/12/20 | 6/19/97/115 | - |
| 25 | CLA | H | 202 | - | 1/1/10/20 | 2/8/86/115 | - |
| 26 | PQN | A | 841 | - | - | 6/23/43/43 | 0/2/2/2 |
| 25 | CLA | A | 802 | - | 1/1/15/20 | 8/37/115/115 | - |
| 25 | CLA | F | 802 | - | 1/1/11/20 | 3/13/91/115 | - |
| 28 | BCR | F | 803 | - | - | 2/29/63/63 | 0/2/2/2 |
| 28 | BCR | A | 846 | - | - | 2/29/63/63 | 0/2/2/2 |
| 28 | BCR | I | 201 | - | - | 7/29/63/63 | 0/2/2/2 |
| 35 | XAT | P | 620 | - | - | 4/31/93/93 | 0/4/4/4 |
| 25 | CLA | P | 612 | - | 1/1/14/20 | 13/31/109/115 | - |
| 25 | CLA | 1 | 613 | - | 1/1/15/20 | 9/37/115/115 | - |
| 28 | BCR | K | 206 | - | - | 10/29/63/63 | 0/2/2/2 |
| 25 | CLA | 7 | 301 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | 6 | 604 | - | 1/1/11/20 | 3/15/93/115 | - |
| 25 | CLA | L | 202 | - | 1/1/15/20 | 12/37/115/115 | - |
| 25 | CLA | A | 827 | - | 1/1/15/20 | 7/37/115/115 | - |
| 28 | BCR | 5 | 320 | - | - | 9/29/63/63 | 0/2/2/2 |
| 28 | BCR | B | 851 | - | - | 3/29/63/63 | 0/2/2/2 |
| 33 | CHL | 1 | 601 | 16 | 3/3/17/26 | 5/24/122/137 | - |
| 25 | CLA | T | 610 | - | 1/1/14/20 | 10/31/109/115 | - |
| 25 | CLA | 4 | 313 | 19 | 1/1/10/20 | 0/8/86/115 | - |
| 25 | CLA | G | 201 | - | 1/1/12/20 | 3/19/97/115 | - |
| 25 | CLA | 3 | 303 | - | 1/1/15/20 | 10/37/115/115 | - |
| 33 | CHL | 7 | 305 | - | 3/3/17/26 | 10/25/123/137 | - |
| 25 | CLA | B | 821 | - | 1/1/14/20 | 6/31/109/115 | - |
| 25 | CLA | U | 304 | - | 1/1/12/20 | 6/19/97/115 | - |
| 35 | XAT | S | 318 | - | - | 4/31/93/93 | 0/4/4/4 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | J | 103 | - | 1/1/13/20 | 11/29/107/115 | - |
| 25 | CLA | Q | 613 | - | 1/1/11/20 | 9/17/95/115 | - |
| 33 | CHL | 6 | 607 | - | 3/3/17/26 | 9/24/122/137 | - |
| 33 | CHL | Q | 601 | - | 3/3/17/26 | 8/21/119/137 | - |
| 33 | CHL | 1 | 606 | - | 3/3/16/26 | 6/18/116/137 | - |
| 33 | CHL | U | 305 | 14 | 3/3/16/26 | 7/15/113/137 | - |
| 25 | CLA | 5 | 306 | - | 1/1/13/20 | 2/25/103/115 | - |
| 25 | CLA | 8 | 306 | - | 1/1/10/20 | 3/10/88/115 | - |
| 33 | CHL | 9 | 306 | - | 3/3/15/26 | 5/10/108/137 | - |
| 25 | CLA | A | 838 | - | 1/1/15/20 | 12/37/115/115 | - |
| 25 | CLA | H | 203 | - | 1/1/11/20 | 8/15/93/115 | - |
| 25 | CLA | 6 | 611 | 27 | 1/1/13/20 | 6/25/103/115 | - |
| 32 | LMG | J | 102 | - | - | 8/35/55/70 | 0/1/1/1 |
| 25 | CLA | 9 | 305 | - | 1/1/12/20 | 7/19/97/115 | - |
| 33 | CHL | 8 | 307 | - | 3/3/17/26 | 11/24/122/137 | - |
| 25 | CLA | R | 613 | - | 1/1/15/20 | 15/37/115/115 | - |
| 25 | CLA | S | 305 | - | 1/1/12/20 | 6/19/97/115 | - |
| 25 | CLA | B | 802 | - | 1/1/15/20 | 13/37/115/115 | - |
| 25 | CLA | R | 614 | - | 1/1/11/20 | 9/17/95/115 | - |
| 33 | CHL | Q | 607 | - | 3/3/15/26 | 5/13/111/137 | - |
| 25 | CLA | A | 801 | - | 1/1/15/20 | 11/37/115/115 | - |
| 27 | LHG | 7 | 317 | 25 | - | 14/41/41/53 | - |
| 33 | CHL | 4 | 322 | 16 | 3/3/17/26 | 5/24/122/137 | - |
| 34 | LUT | T | 614 | - | - | 2/29/67/67 | 0/2/2/2 |
| 28 | BCR | B | 842 | - | - | 6/29/63/63 | 0/2/2/2 |
| 33 | CHL | P | 608 | - | 3/3/15/26 | 5/13/111/137 | - |
| 34 | LUT | U | 314 | - | - | 0/29/67/67 | 0/2/2/2 |
| 25 | CLA | 7 | 313 | 22 | 1/1/11/20 | 8/15/93/115 | - |
| 33 | CHL | P | 605 | 14 | 3/3/16/26 | 6/18/116/137 | - |
| 25 | CLA | 5 | 319 | - | - | 8/15/93/115 | - |
| 25 | CLA | 4 | 302 | - | 1/1/11/20 | 3/15/93/115 | - |
| 25 | CLA | A | 816 | - | 1/1/15/20 | 12/37/115/115 | - |
| 33 | CHL | P | 607 | - | 3/3/17/26 | 10/23/121/137 | - |
| 34 | LUT | a | 316 | - | - | 6/29/67/67 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 2 | 308 | - | 1/1/10/20 | 4/11/89/115 | - |
| 25 | CLA | 3 | 320 | 22 | 1/1/15/20 | 16/37/115/115 | - |
| 33 | CHL | R | 609 | - | 3/3/20/26 | 16/39/137/137 | - |
| 34 | LUT | P | 615 | - | - | 2/29/67/67 | 0/2/2/2 |
| 33 | CHL | 5 | 317 | - | 3/3/15/26 | 2/12/110/137 | - |
| 33 | CHL | U | 308 | - | 3/3/15/26 | 5/13/111/137 | - |
| 25 | CLA | a | 311 | - | 1/1/15/20 | 13/37/115/115 | - |
| 25 | CLA | P | 610 | - | 1/1/14/20 | 9/31/109/115 | - |
| 25 | CLA | A | 851 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | 8 | 309 | - | 1/1/11/20 | 6/15/93/115 | - |
| 25 | CLA | 7 | 311 | - | 1/1/15/20 | 13/37/115/115 | - |
| 25 | CLA | B | 831 | - | 1/1/15/20 | 10/37/115/115 | - |
| 28 | BCR | 6 | 621 | - | - | 8/29/63/63 | 0/2/2/2 |
| 27 | LHG | a | 317 | 25 | - | 17/47/47/53 | - |
| 25 | CLA | B | 820 | - | 1/1/13/20 | 4/30/108/115 | - |
| 25 | CLA | 2 | 309 | - | 1/1/14/20 | 13/31/109/115 | - |
| 27 | LHG | A | 844 | 25 | - | 14/42/42/53 | - |
| 27 | LHG | 5 | 301 | - | - | 19/49/49/53 | - |
| 25 | CLA | 2 | 313 | - | 1/1/13/20 | 5/25/103/115 | - |
| 25 | CLA | U | 311 | - | 1/1/11/20 | 7/25/96/115 | - |
| 33 | CHL | S | 306 | - | 3/3/16/26 | 9/18/116/137 | - |
| 25 | CLA | Q | 610 | - | 1/1/9/20 | 0/8/82/115 | - |
| 25 | CLA | A | 823 | - | 1/1/11/20 | 10/18/96/115 | - |
| 33 | CHL | T | 606 | - | 3/3/15/26 | 5/13/111/137 | - |
| 35 | XAT | P | 616 | - | - | 4/31/93/93 | 0/4/4/4 |
| 25 | CLA | T | 603 | - | 1/1/12/20 | 6/19/97/115 | - |
| 28 | BCR | A | 849 | - | - | 6/29/63/63 | 0/2/2/2 |
| 25 | CLA | B | 849 | - | 1/1/15/20 | 13/37/115/115 | - |
| 28 | BCR | B | 845 | - | - | 4/29/63/63 | 0/2/2/2 |
| 25 | CLA | B | 801 | - | 1/1/15/20 | 12/37/115/115 | - |
| 25 | CLA | a | 307 | - | 1/1/15/20 | 10/37/115/115 | - |
| 33 | CHL | 3 | 306 | - | 3/3/17/26 | 9/24/122/137 | - |
| 33 | CHL | U | 307 | - | 3/3/17/26 | 11/24/122/137 | - |
| 33 | CHL | 6 | 606 | - | 3/3/17/26 | 7/24/122/137 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 30 | DGD | B | 846 | - | - | 15/55/95/95 | 0/2/2/2 |
| 26 | PQN | B | 839 | - | - | 3/23/43/43 | 0/2/2/2 |
| 25 | CLA | L | 201 | - | 1/1/15/20 | 10/37/115/115 | - |
| 32 | LMG | J | 107 | - | - | 18/50/70/70 | 0/1/1/1 |
| 25 | CLA | B | 830 | - | 1/1/15/20 | 16/37/115/115 | - |
| 28 | BCR | B | 844 | - | - | 2/29/63/63 | 0/2/2/2 |
| 25 | CLA | 1 | 607 | - | 1/1/15/20 | 6/37/115/115 | - |
| 33 | CHL | S | 308 | - | 3/3/17/26 | 6/23/121/137 | - |
| 25 | CLA | P | 604 | - | 1/1/12/20 | 6/19/97/115 | - |
| 25 | CLA | S | 313 | - | 1/1/14/20 | 13/31/109/115 | - |
| 25 | CLA | A | 842 | 27 | 1/1/12/20 | 11/22/100/115 | - |
| 28 | BCR | 3 | 319 | - | - | 6/29/63/63 | 0/2/2/2 |
| 25 | CLA | 3 | 311 | - | 1/1/13/20 | 9/25/103/115 | - |
| 33 | CHL | S | 309 | - | 3/3/17/26 | 6/23/121/137 | - |
| 25 | CLA | B | 816 | - | 1/1/14/20 | 11/31/109/115 | - |
| 25 | CLA | A | 805 | - | 1/1/13/20 | 8/25/103/115 | - |
| 34 | LUT | P | 614 | - | - | 0/29/67/67 | 0/2/2/2 |
| 25 | CLA | U | 313 | - | 1/1/11/20 | 7/13/91/115 | - |
| 25 | CLA | 3 | 309 | - | 1/1/10/20 | 4/8/86/115 | - |
| 34 | LUT | R | 616 | - | - | 2/29/67/67 | 0/2/2/2 |
| 25 | CLA | Q | 604 | - | 1/1/12/20 | 6/19/97/115 | - |
| 33 | CHL | 4 | 304 | - | 3/3/15/26 | 3/10/108/137 | - |
| 25 | CLA | 3 | 313 | - | 1/1/11/20 | 4/15/93/115 | - |
| 25 | CLA | 8 | 303 | - | 1/1/14/20 | 8/34/112/115 | - |
| 25 | CLA | B | 810 | - | 1/1/15/20 | 12/37/115/115 | - |
| 27 | LHG | T | 617 | - | - | 12/53/53/53 | - |
| 28 | BCR | B | 841 | - | - | 4/29/63/63 | 0/2/2/2 |
| 25 | CLA | 9 | 303 | - | 1/1/14/20 | 12/31/109/115 | - |
| 28 | BCR | A | 847 | - | - | 2/29/63/63 | 0/2/2/2 |
| 33 | CHL | 5 | 308 | - | 3/3/17/26 | 6/21/119/137 | - |
| 32 | LMG | 6 | 602 | - | - | 12/35/55/70 | 0/1/1/1 |
| 25 | CLA | A | 821 | - | 1/1/11/20 | 1/13/91/115 | - |
| 25 | CLA | G | 202 | - | 1/1/11/20 | 3/15/93/115 | - |
| 25 | CLA | 8 | 312 | - | 1/1/12/20 | 7/22/100/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 33 | CHL | 9 | 307 | - | 3/3/17/26 | 6/21/119/137 | - |
| 25 | CLA | S | 314 | - | - | 20/37/115/115 | - |
| 33 | CHL | P | 609 | - | 3/3/20/26 | 16/39/137/137 | - |
| 28 | BCR | J | 101 | - | - | 6/29/63/63 | 0/2/2/2 |
| 25 | CLA | 5 | 316 | - | 1/1/10/20 | 2/11/89/115 | - |
| 25 | CLA | 7 | 312 | - | 1/1/10/20 | 1/11/89/115 | - |
| 25 | CLA | B | 829 | - | 1/1/11/20 | 5/18/96/115 | - |
| 25 | CLA | A | 836 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | 8 | 314 | - | 1/1/13/20 | 7/25/103/115 | - |
| 25 | CLA | R | 610 | - | 1/1/14/20 | 12/36/114/115 | - |
| 25 | CLA | 6 | 603 | - | 1/1/15/20 | 11/37/115/115 | - |
| 27 | LHG | A | 852 | - | - | 24/49/49/53 | - |
| 25 | CLA | S | 312 | - | 1/1/14/20 | 9/31/109/115 | - |
| 25 | CLA | A | 813 | - | 1/1/12/20 | 2/24/102/115 | - |
| 25 | CLA | S | 303 | 15 | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 4 | 307 | - | 1/1/12/20 | 7/19/97/115 | - |
| 25 | CLA | a | 302 | - | 1/1/13/20 | 8/28/106/115 | - |
| 35 | XAT | P | 623 | - | - | 3/29/91/93 | 0/4/4/4 |
| 27 | LHG | 5 | 321 | - | - | 13/41/41/53 | - |
| 25 | CLA | B | 815 | - | 1/1/13/20 | 15/30/108/115 | - |
| 25 | CLA | 4 | 308 | 19 | 1/1/14/20 | 12/31/109/115 | - |
| 25 | CLA | T | 602 | - | 1/1/15/20 | 7/37/115/115 | - |
| 25 | CLA | 4 | 303 | - | 1/1/12/20 | 7/19/97/115 | - |
| 25 | CLA | 9 | 309 | - | 1/1/14/20 | 10/31/109/115 | - |
| 34 | LUT | 2 | 315 | - | - | 6/29/67/67 | 0/2/2/2 |
| 25 | CLA | B | 826 | - | 1/1/15/20 | 17/37/115/115 | - |
| 25 | CLA | L | 205 | - | 1/1/15/20 | 11/37/115/115 | - |
| 33 | CHL | R | 608 | - | 3/3/15/26 | 5/13/111/137 | - |
| 33 | CHL | 4 | 314 | 19 | 3/3/15/26 | 4/12/110/137 | - |
| 25 | CLA | 4 | 310 | - | 1/1/12/20 | 8/22/100/115 | - |
| 28 | BCR | G | 203 | - | - | 1/29/63/63 | 0/2/2/2 |
| 30 | DGD | B | 848 | - | - | 16/46/86/95 | 0/2/2/2 |
| 25 | CLA | B | 836 | - | 1/1/15/20 | 15/37/115/115 | - |
| 25 | CLA | a | 304 | - | 1/1/12/20 | 2/22/100/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 7 | 307 | - | 1/1/12/20 | 4/19/97/115 | - |
| 25 | CLA | B | 824 | - | 1/1/15/20 | 17/37/115/115 | - |
| 33 | CHL | P | 601 | - | 3/3/17/26 | 8/21/119/137 | - |
| 36 | NEX | U | 301 | - | - | 6/27/83/83 | 0/3/3/3 |
| 25 | CLA | a | 306 | - | 1/1/15/20 | 6/37/115/115 | - |
| 25 | CLA | P | 603 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | R | 611 | - | 1/1/14/20 | 9/31/109/115 | - |
| 25 | CLA | 7 | 309 | 27 | 1/1/10/20 | 2/8/86/115 | - |
| 25 | CLA | 7 | 306 | - | 1/1/12/20 | 2/19/97/115 | - |
| 25 | CLA | B | 809 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | K | 205 | - | 1/1/11/20 | 6/13/91/115 | - |
| 25 | CLA | 6 | 616 | - | 1/1/11/20 | 4/15/93/115 | - |
| 25 | CLA | B | 808 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 33 | CHL | T | 601 | - | 3/3/16/26 | 9/20/118/137 | - |
| 25 | CLA | Q | 612 | - | 1/1/14/20 | 11/31/109/115 | - |
| 28 | BCR | B | 840 | - | - | 7/29/63/63 | 0/2/2/2 |
| 25 | CLA | B | 819 | - | 1/1/11/20 | 6/15/93/115 | - |
| 25 | CLA | U | 312 | - | 1/1/15/20 | 15/37/115/115 | - |
| 25 | CLA | A | 808 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 1 | 605 | - | 1/1/12/20 | 2/22/100/115 | - |
| 33 | CHL | a | 305 | - | 3/3/16/26 | 6/18/116/137 | - |
| 28 | BCR | F | 801 | - | - | 4/29/63/63 | 0/2/2/2 |
| 25 | CLA | 5 | 310 | - | 1/1/14/20 | 5/31/109/115 | - |
| 25 | CLA | B | 828 | - | 1/1/12/20 | 3/19/97/115 | - |
| 29 | SF4 | C | 102 | 3 | - | - | 0/6/5/5 |
| 33 | CHL | T | 604 | 14 | 3/3/16/26 | 3/18/116/137 | - |
| 25 | CLA | A | 833 | - | 1/1/12/20 | 0/19/97/115 | - |
| 25 | CLA | P | 602 | - | 1/1/15/20 | 7/37/115/115 | - |
| 25 | CLA | 5 | 312 | - | 1/1/12/20 | 5/22/100/115 | - |
| 33 | CHL | P | 619 | - | 3/3/17/26 | 10/23/121/137 | - |
| 28 | BCR | 8 | 318 | - | - | 5/29/63/63 | 0/2/2/2 |
| 33 | CHL | U | 306 | - | 3/3/16/26 | 7/20/118/137 | - |
| 33 | CHL | R | 601 | - | 3/3/17/26 | 8/21/119/137 | - |
| 25 | CLA | 6 | 601 | 19 | 1/1/14/20 | 13/33/111/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25 | CLA | 2 | 314 | - | 1/1/11/20 | 5/15/93/115 | - |
| 25 | CLA | 1 | 603 | - | 1/1/15/20 | 10/37/115/115 | - |
| 25 | CLA | 6 | 623 | - | 1/1/14/20 | 13/31/109/115 | - |
| 25 | CLA | 5 | 313 | - | 1/1/13/20 | 6/27/105/115 | - |
| 25 | CLA | Q | 602 | - | 1/1/15/20 | 7/37/115/115 | - |
| 25 | CLA | A | 829 | - | 1/1/15/20 | 10/37/115/115 | - |
| 27 | LHG | A | 843 | - | - | 18/53/53/53 | - |
| 28 | BCR | L | 204 | - | - | 7/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 839 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 4 | 312 | - | 1/1/11/20 | 2/13/91/115 | - |
| 33 | CHL | R | 607 | - | 3/3/17/26 | 10/23/121/137 | - |
| 32 | LMG | 4 | 320 | - | - | 6/35/55/70 | 0/1/1/1 |
| 25 | CLA | 2 | 304 | - | 1/1/15/20 | 16/37/115/115 | - |
| 25 | CLA | 1 | 604 | - | 1/1/13/20 | 8/28/106/115 | - |
| 28 | BCR | A | 848 | - | - | 6/29/63/63 | 0/2/2/2 |
| 25 | CLA | A | 810 | 1 | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | 8 | 308 | - | 1/1/12/20 | 4/19/97/115 | - |
| 27 | LHG | 6 | 618 | 25 | - | 23/53/53/53 | - |
| 25 | CLA | 6 | 612 | - | 1/1/12/20 | 3/22/100/115 | - |
| 34 | LUT | R | 615 | - | - | 2/29/67/67 | 0/2/2/2 |
| 33 | CHL | R | 606 | - | 3/3/16/26 | 8/20/118/137 | - |
| 31 | SQD | B | 850 | - | - | 16/46/66/69 | 0/1/1/1 |
| 25 | CLA | S | 320 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | CLA | A | 812 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | CLA | 3 | 305 | 18 | 1/1/14/20 | 12/31/109/115 | - |
| 27 | LHG | B | 847 | - | - | 17/42/42/53 | - |
| 33 | CHL | 4 | 305 | - | 3/3/17/26 | 5/21/119/137 | - |
| 25 | CLA | A | 811 | - | 1/1/15/20 | 6/37/115/115 | - |
| 25 | CLA | A | 818 | - | 1/1/15/20 | 15/37/115/115 | - |
| 33 | CHL | 6 | 617 | 21 | 3/3/15/26 | 4/12/110/137 | - |
| 25 | CLA | A | 803 | - | 1/1/15/20 | 5/37/115/115 | - |
| 25 | CLA | B | 804 | - | 1/1/15/20 | 13/37/115/115 | - |
| 33 | CHL | Q | 605 | 14 | 3/3/15/26 | 1/10/108/137 | - |
| 33 | CHL | U | 309 | - | 3/3/16/26 | 3/18/116/137 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|--------------|---------|
| 25 | CLA | A | 824 | - | 1/1/13/20 | 8/25/103/115 | - |
| 28 | BCR | B | 843 | - | - | 5/29/63/63 | 0/2/2/2 |
| 34 | LUT | S | 317 | - | - | 6/29/67/67 | 0/2/2/2 |
| 25 | CLA | 5 | 305 | - | 1/1/12/20 | 2/19/97/115 | - |

All (3554) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 25 | S | 303 | CLA | C4B-NB | 7.98 | 1.42 | 1.35 |
| 25 | Q | 613 | CLA | C4B-NB | 7.93 | 1.42 | 1.35 |
| 25 | R | 610 | CLA | C4B-NB | 7.83 | 1.42 | 1.35 |
| 25 | R | 603 | CLA | C4B-NB | 7.79 | 1.42 | 1.35 |
| 25 | Q | 612 | CLA | C4B-NB | 7.77 | 1.42 | 1.35 |
| 25 | 6 | 612 | CLA | C4B-NB | 7.74 | 1.42 | 1.35 |
| 25 | R | 604 | CLA | C4B-NB | 7.72 | 1.42 | 1.35 |
| 25 | Q | 603 | CLA | C4B-NB | 7.72 | 1.42 | 1.35 |
| 25 | T | 610 | CLA | C4B-NB | 7.67 | 1.42 | 1.35 |
| 25 | R | 602 | CLA | C4B-NB | 7.66 | 1.42 | 1.35 |
| 25 | Q | 604 | CLA | C4B-NB | 7.64 | 1.42 | 1.35 |
| 25 | Q | 602 | CLA | C4B-NB | 7.62 | 1.42 | 1.35 |
| 25 | K | 204 | CLA | C4B-NB | 7.62 | 1.42 | 1.35 |
| 25 | U | 302 | CLA | C4B-NB | 7.61 | 1.42 | 1.35 |
| 25 | U | 310 | CLA | C4B-NB | 7.57 | 1.42 | 1.35 |
| 25 | S | 313 | CLA | C4B-NB | 7.53 | 1.41 | 1.35 |
| 25 | 4 | 302 | CLA | C4B-NB | 7.52 | 1.41 | 1.35 |
| 25 | 9 | 311 | CLA | C4B-NB | 7.52 | 1.41 | 1.35 |
| 25 | a | 310 | CLA | C4B-NB | 7.52 | 1.41 | 1.35 |
| 25 | U | 303 | CLA | C4B-NB | 7.50 | 1.41 | 1.35 |
| 25 | U | 312 | CLA | C4B-NB | 7.48 | 1.41 | 1.35 |
| 25 | a | 304 | CLA | C4B-NB | 7.46 | 1.41 | 1.35 |
| 25 | P | 603 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 25 | T | 611 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 25 | S | 304 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 25 | T | 602 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 25 | U | 311 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 25 | 2 | 306 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 25 | Q | 609 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 25 | 4 | 310 | CLA | C4B-NB | 7.38 | 1.41 | 1.35 |
| 25 | a | 301 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 25 | T | 612 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 25 | S | 305 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 25 | P | 613 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |
| 25 | 1 | 605 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |
| 25 | P | 602 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 25 | S | 301 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 25 | 6 | 613 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 25 | S | 314 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 25 | S | 320 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 25 | U | 304 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 25 | a | 307 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 25 | P | 604 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 25 | R | 614 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 25 | T | 603 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 25 | 4 | 307 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 25 | P | 610 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 25 | 5 | 312 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 25 | 9 | 302 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 25 | 9 | 310 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 25 | S | 311 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 25 | 2 | 305 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 25 | K | 205 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 25 | 2 | 313 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 25 | T | 608 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 25 | 4 | 313 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 25 | R | 613 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 25 | a | 309 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 25 | a | 313 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 25 | 9 | 305 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 25 | Q | 611 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 25 | 2 | 314 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 25 | 4 | 312 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 25 | 5 | 314 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 25 | a | 302 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 25 | B | 835 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 25 | a | 312 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 25 | 3 | 304 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 25 | 5 | 302 | CLA | C4B-NB | 7.06 | 1.41 | 1.35 |
| 25 | G | 201 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 25 | 3 | 312 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 25 | O | 202 | CLA | C4B-NB | 7.03 | 1.41 | 1.35 |
| 25 | 5 | 319 | CLA | C4B-NB | 7.02 | 1.41 | 1.35 |
| 25 | 2 | 304 | CLA | C4B-NB | 7.01 | 1.41 | 1.35 |
| 25 | S | 312 | CLA | C4B-NB | 7.01 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 25 | Q | 618 | CLA | C4B-NB | 7.01 | 1.41 | 1.35 |
| 25 | 1 | 612 | CLA | C4B-NB | 7.00 | 1.41 | 1.35 |
| 25 | 1 | 611 | CLA | C4B-NB | 6.99 | 1.41 | 1.35 |
| 25 | 3 | 302 | CLA | C4B-NB | 6.98 | 1.41 | 1.35 |
| 25 | 3 | 309 | CLA | C4B-NB | 6.98 | 1.41 | 1.35 |
| 25 | B | 830 | CLA | C4B-NB | 6.97 | 1.41 | 1.35 |
| 25 | 8 | 306 | CLA | C4B-NB | 6.97 | 1.41 | 1.35 |
| 25 | 2 | 302 | CLA | C4B-NB | 6.96 | 1.41 | 1.35 |
| 25 | 8 | 309 | CLA | C4B-NB | 6.96 | 1.41 | 1.35 |
| 25 | 2 | 312 | CLA | C4B-NB | 6.95 | 1.41 | 1.35 |
| 25 | 3 | 310 | CLA | C4B-NB | 6.95 | 1.41 | 1.35 |
| 25 | 9 | 309 | CLA | C4B-NB | 6.95 | 1.41 | 1.35 |
| 25 | A | 836 | CLA | C4B-NB | 6.94 | 1.41 | 1.35 |
| 25 | 9 | 308 | CLA | C4B-NB | 6.94 | 1.41 | 1.35 |
| 25 | 8 | 311 | CLA | C4B-NB | 6.94 | 1.41 | 1.35 |
| 25 | J | 103 | CLA | C4B-NB | 6.94 | 1.41 | 1.35 |
| 25 | T | 609 | CLA | C4B-NB | 6.94 | 1.41 | 1.35 |
| 25 | 1 | 614 | CLA | C4B-NB | 6.93 | 1.41 | 1.35 |
| 25 | 1 | 607 | CLA | C4B-NB | 6.92 | 1.41 | 1.35 |
| 25 | a | 306 | CLA | C4B-NB | 6.91 | 1.41 | 1.35 |
| 25 | H | 202 | CLA | C4B-NB | 6.89 | 1.41 | 1.35 |
| 25 | 2 | 308 | CLA | C4B-NB | 6.89 | 1.41 | 1.35 |
| 25 | 8 | 315 | CLA | C4B-NB | 6.87 | 1.41 | 1.35 |
| 25 | 6 | 604 | CLA | C4B-NB | 6.87 | 1.41 | 1.35 |
| 25 | 4 | 311 | CLA | C4B-NB | 6.87 | 1.41 | 1.35 |
| 25 | O | 203 | CLA | C4B-NB | 6.86 | 1.41 | 1.35 |
| 25 | L | 209 | CLA | C4B-NB | 6.86 | 1.41 | 1.35 |
| 25 | A | 816 | CLA | C4B-NB | 6.85 | 1.41 | 1.35 |
| 25 | 8 | 313 | CLA | C4B-NB | 6.85 | 1.41 | 1.35 |
| 25 | a | 311 | CLA | C4B-NB | 6.84 | 1.41 | 1.35 |
| 25 | 2 | 309 | CLA | C4B-NB | 6.84 | 1.41 | 1.35 |
| 25 | a | 303 | CLA | C4B-NB | 6.84 | 1.41 | 1.35 |
| 25 | A | 817 | CLA | C4B-NB | 6.84 | 1.41 | 1.35 |
| 25 | A | 811 | CLA | C4B-NB | 6.84 | 1.41 | 1.35 |
| 25 | 6 | 616 | CLA | C4B-NB | 6.83 | 1.41 | 1.35 |
| 25 | K | 203 | CLA | C4B-NB | 6.83 | 1.41 | 1.35 |
| 25 | B | 818 | CLA | C4B-NB | 6.83 | 1.41 | 1.35 |
| 25 | 2 | 310 | CLA | C4B-NB | 6.83 | 1.41 | 1.35 |
| 25 | R | 611 | CLA | C4B-NB | 6.82 | 1.41 | 1.35 |
| 25 | 8 | 314 | CLA | C4B-NB | 6.82 | 1.41 | 1.35 |
| 25 | A | 824 | CLA | C4B-NB | 6.81 | 1.41 | 1.35 |
| 25 | H | 201 | CLA | C4B-NB | 6.81 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 25 | 1 | 613 | CLA | C4B-NB | 6.81 | 1.41 | 1.35 |
| 25 | 1 | 602 | CLA | C4B-NB | 6.80 | 1.41 | 1.35 |
| 25 | 7 | 306 | CLA | C4B-NB | 6.80 | 1.41 | 1.35 |
| 25 | 6 | 610 | CLA | C4B-NB | 6.79 | 1.41 | 1.35 |
| 25 | 1 | 604 | CLA | C4B-NB | 6.79 | 1.41 | 1.35 |
| 25 | B | 806 | CLA | C4B-NB | 6.79 | 1.41 | 1.35 |
| 25 | G | 202 | CLA | C4B-NB | 6.78 | 1.41 | 1.35 |
| 25 | B | 832 | CLA | C4B-NB | 6.78 | 1.41 | 1.35 |
| 25 | A | 808 | CLA | C4B-NB | 6.78 | 1.41 | 1.35 |
| 25 | 7 | 312 | CLA | C4B-NB | 6.78 | 1.41 | 1.35 |
| 25 | B | 838 | CLA | C4B-NB | 6.76 | 1.41 | 1.35 |
| 25 | 1 | 608 | CLA | C4B-NB | 6.76 | 1.41 | 1.35 |
| 25 | 5 | 306 | CLA | C4B-NB | 6.76 | 1.41 | 1.35 |
| 25 | A | 827 | CLA | C4B-NB | 6.75 | 1.41 | 1.35 |
| 25 | O | 201 | CLA | C4B-NB | 6.74 | 1.41 | 1.35 |
| 25 | 5 | 324 | CLA | C4B-NB | 6.73 | 1.41 | 1.35 |
| 25 | A | 830 | CLA | C4B-NB | 6.72 | 1.41 | 1.35 |
| 25 | B | 849 | CLA | C4B-NB | 6.72 | 1.41 | 1.35 |
| 25 | A | 853 | CLA | C4B-NB | 6.71 | 1.41 | 1.35 |
| 26 | A | 841 | PQN | C3-C2 | 6.71 | 1.47 | 1.35 |
| 25 | 6 | 601 | CLA | C4B-NB | 6.71 | 1.41 | 1.35 |
| 25 | 5 | 311 | CLA | C4B-NB | 6.70 | 1.41 | 1.35 |
| 25 | 7 | 304 | CLA | C4B-NB | 6.70 | 1.41 | 1.35 |
| 25 | B | 817 | CLA | C4B-NB | 6.69 | 1.41 | 1.35 |
| 25 | 6 | 623 | CLA | C4B-NB | 6.69 | 1.41 | 1.35 |
| 25 | B | 831 | CLA | C4B-NB | 6.68 | 1.41 | 1.35 |
| 25 | B | 821 | CLA | C4B-NB | 6.68 | 1.41 | 1.35 |
| 25 | 9 | 304 | CLA | C4B-NB | 6.67 | 1.41 | 1.35 |
| 25 | A | 818 | CLA | C4B-NB | 6.67 | 1.41 | 1.35 |
| 25 | 7 | 309 | CLA | C4B-NB | 6.67 | 1.41 | 1.35 |
| 25 | F | 802 | CLA | C4B-NB | 6.67 | 1.41 | 1.35 |
| 25 | B | 827 | CLA | C4B-NB | 6.66 | 1.41 | 1.35 |
| 25 | A | 834 | CLA | C4B-NB | 6.66 | 1.41 | 1.35 |
| 25 | 6 | 609 | CLA | C4B-NB | 6.66 | 1.41 | 1.35 |
| 25 | B | 837 | CLA | C4B-NB | 6.65 | 1.41 | 1.35 |
| 25 | 6 | 620 | CLA | C4B-NB | 6.65 | 1.41 | 1.35 |
| 25 | 1 | 610 | CLA | C4B-NB | 6.65 | 1.41 | 1.35 |
| 25 | A | 839 | CLA | C4B-NB | 6.64 | 1.41 | 1.35 |
| 25 | 8 | 302 | CLA | C4B-NB | 6.64 | 1.41 | 1.35 |
| 25 | S | 315 | CLA | C4B-NB | 6.63 | 1.41 | 1.35 |
| 25 | 7 | 307 | CLA | C4B-NB | 6.63 | 1.41 | 1.35 |
| 25 | 1 | 603 | CLA | C4B-NB | 6.62 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 25 | 6 | 605 | CLA | C4B-NB | 6.62 | 1.41 | 1.35 |
| 25 | 5 | 305 | CLA | C4B-NB | 6.62 | 1.41 | 1.35 |
| 25 | 8 | 304 | CLA | C4B-NB | 6.62 | 1.41 | 1.35 |
| 25 | A | 809 | CLA | C4B-NB | 6.61 | 1.41 | 1.35 |
| 25 | 4 | 309 | CLA | C4B-NB | 6.61 | 1.41 | 1.35 |
| 25 | 2 | 303 | CLA | C4B-NB | 6.61 | 1.41 | 1.35 |
| 25 | K | 202 | CLA | C4B-NB | 6.60 | 1.41 | 1.35 |
| 25 | H | 203 | CLA | C4B-NB | 6.59 | 1.41 | 1.35 |
| 26 | B | 839 | PQN | C3-C2 | 6.59 | 1.47 | 1.35 |
| 25 | B | 819 | CLA | C4B-NB | 6.58 | 1.41 | 1.35 |
| 25 | 7 | 303 | CLA | C4B-NB | 6.57 | 1.41 | 1.35 |
| 25 | B | 804 | CLA | C4B-NB | 6.57 | 1.41 | 1.35 |
| 25 | 7 | 311 | CLA | C4B-NB | 6.56 | 1.41 | 1.35 |
| 25 | 8 | 312 | CLA | C4B-NB | 6.56 | 1.41 | 1.35 |
| 25 | 7 | 313 | CLA | C4B-NB | 6.55 | 1.41 | 1.35 |
| 25 | 3 | 305 | CLA | C4B-NB | 6.55 | 1.41 | 1.35 |
| 25 | 5 | 313 | CLA | C4B-NB | 6.55 | 1.41 | 1.35 |
| 25 | A | 840 | CLA | C4B-NB | 6.53 | 1.41 | 1.35 |
| 25 | A | 821 | CLA | C4B-NB | 6.52 | 1.41 | 1.35 |
| 25 | A | 812 | CLA | C4B-NB | 6.52 | 1.41 | 1.35 |
| 25 | 8 | 305 | CLA | C4B-NB | 6.52 | 1.41 | 1.35 |
| 25 | B | 813 | CLA | C4B-NB | 6.52 | 1.41 | 1.35 |
| 25 | 6 | 614 | CLA | C4B-NB | 6.52 | 1.41 | 1.35 |
| 25 | A | 837 | CLA | C4B-NB | 6.51 | 1.41 | 1.35 |
| 25 | 7 | 310 | CLA | C4B-NB | 6.51 | 1.41 | 1.35 |
| 25 | B | 820 | CLA | C4B-NB | 6.51 | 1.41 | 1.35 |
| 25 | K | 201 | CLA | C4B-NB | 6.50 | 1.41 | 1.35 |
| 25 | A | 833 | CLA | C4B-NB | 6.50 | 1.41 | 1.35 |
| 25 | 9 | 301 | CLA | C4B-NB | 6.49 | 1.41 | 1.35 |
| 25 | A | 842 | CLA | C4B-NB | 6.48 | 1.41 | 1.35 |
| 25 | B | 828 | CLA | C4B-NB | 6.48 | 1.41 | 1.35 |
| 25 | B | 836 | CLA | C4B-NB | 6.48 | 1.41 | 1.35 |
| 25 | B | 822 | CLA | C4B-NB | 6.47 | 1.41 | 1.35 |
| 25 | B | 807 | CLA | C4B-NB | 6.47 | 1.41 | 1.35 |
| 25 | 7 | 301 | CLA | C4B-NB | 6.46 | 1.41 | 1.35 |
| 25 | 3 | 311 | CLA | C4B-NB | 6.46 | 1.41 | 1.35 |
| 25 | 8 | 303 | CLA | C4B-NB | 6.46 | 1.41 | 1.35 |
| 25 | 2 | 307 | CLA | C4B-NB | 6.46 | 1.41 | 1.35 |
| 25 | 6 | 615 | CLA | C4B-NB | 6.45 | 1.41 | 1.35 |
| 25 | 9 | 303 | CLA | C4B-NB | 6.45 | 1.41 | 1.35 |
| 25 | A | 802 | CLA | C4B-NB | 6.43 | 1.40 | 1.35 |
| 25 | J | 105 | CLA | C4B-NB | 6.43 | 1.40 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 25 | 4 | 303 | CLA | C4B-NB | 6.42 | 1.40 | 1.35 |
| 25 | 6 | 611 | CLA | C4B-NB | 6.42 | 1.40 | 1.35 |
| 25 | 8 | 308 | CLA | C4B-NB | 6.42 | 1.40 | 1.35 |
| 25 | A | 823 | CLA | C4B-NB | 6.42 | 1.40 | 1.35 |
| 25 | A | 819 | CLA | C4B-NB | 6.41 | 1.40 | 1.35 |
| 25 | B | 810 | CLA | C4B-NB | 6.41 | 1.40 | 1.35 |
| 25 | B | 808 | CLA | C4B-NB | 6.40 | 1.40 | 1.35 |
| 25 | A | 807 | CLA | C4B-NB | 6.40 | 1.40 | 1.35 |
| 25 | B | 815 | CLA | C4B-NB | 6.40 | 1.40 | 1.35 |
| 25 | B | 803 | CLA | C4B-NB | 6.39 | 1.40 | 1.35 |
| 25 | 4 | 301 | CLA | C4B-NB | 6.39 | 1.40 | 1.35 |
| 25 | A | 810 | CLA | C4B-NB | 6.38 | 1.40 | 1.35 |
| 25 | 2 | 311 | CLA | C4B-NB | 6.38 | 1.40 | 1.35 |
| 25 | B | 834 | CLA | C4B-NB | 6.37 | 1.40 | 1.35 |
| 25 | 3 | 314 | CLA | C4B-NB | 6.36 | 1.40 | 1.35 |
| 25 | B | 829 | CLA | C4B-NB | 6.36 | 1.40 | 1.35 |
| 25 | B | 809 | CLA | C4B-NB | 6.35 | 1.40 | 1.35 |
| 25 | A | 805 | CLA | C4B-NB | 6.35 | 1.40 | 1.35 |
| 25 | L | 206 | CLA | C4B-NB | 6.34 | 1.40 | 1.35 |
| 25 | 7 | 302 | CLA | C4B-NB | 6.34 | 1.40 | 1.35 |
| 25 | 5 | 315 | CLA | C4B-NB | 6.34 | 1.40 | 1.35 |
| 25 | U | 313 | CLA | C4B-NB | 6.33 | 1.40 | 1.35 |
| 25 | A | 838 | CLA | C4B-NB | 6.32 | 1.40 | 1.35 |
| 25 | 5 | 309 | CLA | C4B-NB | 6.31 | 1.40 | 1.35 |
| 25 | A | 831 | CLA | C4B-NB | 6.31 | 1.40 | 1.35 |
| 25 | B | 814 | CLA | C4B-NB | 6.30 | 1.40 | 1.35 |
| 25 | H | 205 | CLA | C4B-NB | 6.29 | 1.40 | 1.35 |
| 25 | B | 812 | CLA | C4B-NB | 6.29 | 1.40 | 1.35 |
| 25 | A | 804 | CLA | C4B-NB | 6.28 | 1.40 | 1.35 |
| 25 | B | 805 | CLA | C4B-NB | 6.26 | 1.40 | 1.35 |
| 25 | 8 | 310 | CLA | C4B-NB | 6.25 | 1.40 | 1.35 |
| 25 | B | 816 | CLA | C4B-NB | 6.24 | 1.40 | 1.35 |
| 25 | 3 | 301 | CLA | C4B-NB | 6.22 | 1.40 | 1.35 |
| 25 | B | 826 | CLA | C4B-NB | 6.22 | 1.40 | 1.35 |
| 25 | 6 | 603 | CLA | C4B-NB | 6.22 | 1.40 | 1.35 |
| 25 | 3 | 313 | CLA | C4B-NB | 6.22 | 1.40 | 1.35 |
| 25 | Q | 610 | CLA | C4B-NB | 6.21 | 1.40 | 1.35 |
| 25 | A | 813 | CLA | C4B-NB | 6.21 | 1.40 | 1.35 |
| 25 | 5 | 304 | CLA | C4B-NB | 6.20 | 1.40 | 1.35 |
| 25 | A | 815 | CLA | C4B-NB | 6.19 | 1.40 | 1.35 |
| 25 | B | 801 | CLA | C4B-NB | 6.18 | 1.40 | 1.35 |
| 25 | A | 822 | CLA | C4B-NB | 6.18 | 1.40 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 25 | A | 851 | CLA | C4B-NB | 6.18 | 1.40 | 1.35 |
| 25 | A | 828 | CLA | C4B-NB | 6.16 | 1.40 | 1.35 |
| 25 | 7 | 308 | CLA | C4B-NB | 6.15 | 1.40 | 1.35 |
| 25 | A | 829 | CLA | C4B-NB | 6.15 | 1.40 | 1.35 |
| 25 | 5 | 316 | CLA | C4B-NB | 6.12 | 1.40 | 1.35 |
| 25 | B | 802 | CLA | C4B-NB | 6.11 | 1.40 | 1.35 |
| 25 | L | 202 | CLA | C4B-NB | 6.08 | 1.40 | 1.35 |
| 25 | 3 | 307 | CLA | C4B-NB | 6.08 | 1.40 | 1.35 |
| 25 | L | 201 | CLA | C4B-NB | 6.05 | 1.40 | 1.35 |
| 25 | B | 824 | CLA | C4B-NB | 6.04 | 1.40 | 1.35 |
| 25 | 3 | 308 | CLA | C4B-NB | 6.02 | 1.40 | 1.35 |
| 25 | 3 | 303 | CLA | C4B-NB | 6.00 | 1.40 | 1.35 |
| 25 | A | 825 | CLA | C4B-NB | 5.99 | 1.40 | 1.35 |
| 25 | A | 814 | CLA | C4B-NB | 5.97 | 1.40 | 1.35 |
| 25 | 4 | 308 | CLA | C4B-NB | 5.97 | 1.40 | 1.35 |
| 25 | A | 835 | CLA | C4B-NB | 5.96 | 1.40 | 1.35 |
| 25 | B | 823 | CLA | C4B-NB | 5.96 | 1.40 | 1.35 |
| 25 | A | 832 | CLA | C4B-NB | 5.95 | 1.40 | 1.35 |
| 25 | B | 811 | CLA | C4B-NB | 5.95 | 1.40 | 1.35 |
| 25 | a | 308 | CLA | C4B-NB | 5.90 | 1.40 | 1.35 |
| 25 | 5 | 303 | CLA | C4B-NB | 5.89 | 1.40 | 1.35 |
| 25 | B | 825 | CLA | C4B-NB | 5.85 | 1.40 | 1.35 |
| 25 | L | 205 | CLA | C4B-NB | 5.84 | 1.40 | 1.35 |
| 25 | A | 826 | CLA | C4B-NB | 5.84 | 1.40 | 1.35 |
| 25 | A | 820 | CLA | C4B-NB | 5.83 | 1.40 | 1.35 |
| 25 | A | 801 | CLA | C4B-NB | 5.81 | 1.40 | 1.35 |
| 25 | 3 | 320 | CLA | C4B-NB | 5.79 | 1.40 | 1.35 |
| 25 | 5 | 310 | CLA | C4B-NB | 5.73 | 1.40 | 1.35 |
| 25 | A | 806 | CLA | C4B-NB | 5.70 | 1.40 | 1.35 |
| 25 | 1 | 609 | CLA | C4B-NB | 5.67 | 1.40 | 1.35 |
| 25 | B | 833 | CLA | C4B-NB | 5.67 | 1.40 | 1.35 |
| 25 | A | 803 | CLA | C4B-NB | 5.59 | 1.40 | 1.35 |
| 33 | Q | 608 | CHL | CMC-C2C | 5.40 | 1.56 | 1.45 |
| 33 | P | 609 | CHL | CMC-C2C | 5.37 | 1.56 | 1.45 |
| 33 | R | 609 | CHL | CMC-C2C | 5.35 | 1.56 | 1.45 |
| 33 | T | 601 | CHL | C3B-C2B | 5.33 | 1.47 | 1.40 |
| 33 | T | 601 | CHL | CHD-C1D | 5.33 | 1.48 | 1.38 |
| 33 | 8 | 307 | CHL | O2D-CGD | 5.31 | 1.46 | 1.33 |
| 33 | P | 601 | CHL | C3B-C2B | 5.21 | 1.47 | 1.40 |
| 33 | S | 307 | CHL | CHC-C1C | 5.21 | 1.48 | 1.35 |
| 33 | R | 601 | CHL | C3B-C2B | 5.21 | 1.47 | 1.40 |
| 33 | Q | 601 | CHL | C3B-C2B | 5.20 | 1.47 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 33 | R | 601 | CHL | CHD-C1D | 5.18 | 1.48 | 1.38 |
| 33 | Q | 601 | CHL | CHD-C1D | 5.18 | 1.48 | 1.38 |
| 33 | U | 309 | CHL | CHD-C1D | 5.18 | 1.48 | 1.38 |
| 33 | 4 | 305 | CHL | O2D-CGD | 5.17 | 1.45 | 1.33 |
| 33 | P | 601 | CHL | CHD-C1D | 5.17 | 1.48 | 1.38 |
| 33 | T | 601 | CHL | C2C-C3C | 5.16 | 1.47 | 1.36 |
| 33 | P | 622 | CHL | O2D-CGD | 5.14 | 1.45 | 1.33 |
| 33 | R | 605 | CHL | CHD-C1D | 5.14 | 1.48 | 1.38 |
| 33 | U | 305 | CHL | O2D-CGD | 5.13 | 1.45 | 1.33 |
| 33 | P | 601 | CHL | C2C-C3C | 5.13 | 1.47 | 1.36 |
| 33 | Q | 601 | CHL | C2C-C3C | 5.13 | 1.47 | 1.36 |
| 33 | T | 601 | CHL | O2D-CGD | 5.11 | 1.45 | 1.33 |
| 33 | R | 601 | CHL | C2C-C3C | 5.11 | 1.47 | 1.36 |
| 33 | U | 309 | CHL | O2D-CGD | 5.10 | 1.45 | 1.33 |
| 33 | Q | 601 | CHL | O2D-CGD | 5.09 | 1.45 | 1.33 |
| 33 | R | 601 | CHL | O2D-CGD | 5.09 | 1.45 | 1.33 |
| 33 | S | 302 | CHL | O2D-CGD | 5.09 | 1.45 | 1.33 |
| 33 | P | 622 | CHL | CHD-C1D | 5.09 | 1.48 | 1.38 |
| 33 | Q | 606 | CHL | O2D-CGD | 5.09 | 1.45 | 1.33 |
| 33 | P | 622 | CHL | C3B-C2B | 5.08 | 1.47 | 1.40 |
| 33 | P | 601 | CHL | O2D-CGD | 5.08 | 1.45 | 1.33 |
| 33 | U | 309 | CHL | CHC-C1C | 5.08 | 1.48 | 1.35 |
| 33 | T | 607 | CHL | C2C-C3C | 5.08 | 1.47 | 1.36 |
| 33 | R | 606 | CHL | O2D-CGD | 5.08 | 1.45 | 1.33 |
| 33 | P | 622 | CHL | CHC-C1C | 5.07 | 1.48 | 1.35 |
| 33 | S | 308 | CHL | O2D-CGD | 5.07 | 1.45 | 1.33 |
| 33 | 4 | 305 | CHL | CHC-C1C | 5.07 | 1.48 | 1.35 |
| 33 | S | 307 | CHL | CHD-C1D | 5.07 | 1.48 | 1.38 |
| 33 | Q | 605 | CHL | O2D-CGD | 5.06 | 1.45 | 1.33 |
| 33 | S | 310 | CHL | O2D-CGD | 5.06 | 1.45 | 1.33 |
| 33 | T | 607 | CHL | C3B-C2B | 5.06 | 1.47 | 1.40 |
| 33 | U | 309 | CHL | C2C-C3C | 5.06 | 1.47 | 1.36 |
| 33 | S | 306 | CHL | O2D-CGD | 5.05 | 1.45 | 1.33 |
| 33 | T | 604 | CHL | O2D-CGD | 5.05 | 1.45 | 1.33 |
| 33 | P | 619 | CHL | O2D-CGD | 5.05 | 1.45 | 1.33 |
| 33 | 1 | 606 | CHL | CHC-C1C | 5.05 | 1.47 | 1.35 |
| 33 | 4 | 314 | CHL | O2D-CGD | 5.04 | 1.45 | 1.33 |
| 33 | P | 607 | CHL | O2D-CGD | 5.04 | 1.45 | 1.33 |
| 33 | 9 | 307 | CHL | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 33 | S | 309 | CHL | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 33 | T | 607 | CHL | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 33 | U | 309 | CHL | C3B-C2B | 5.01 | 1.47 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | R | 607 | CHL | O2D-CGD | 5.01 | 1.45 | 1.33 |
| 33 | 6 | 606 | CHL | O2D-CGD | 5.01 | 1.45 | 1.33 |
| 33 | T | 605 | CHL | C3B-C2B | 5.00 | 1.47 | 1.40 |
| 33 | R | 601 | CHL | CHC-C1C | 5.00 | 1.47 | 1.35 |
| 33 | P | 601 | CHL | CHC-C1C | 4.99 | 1.47 | 1.35 |
| 33 | T | 601 | CHL | CHC-C1C | 4.99 | 1.47 | 1.35 |
| 33 | R | 605 | CHL | C2C-C3C | 4.98 | 1.47 | 1.36 |
| 33 | Q | 601 | CHL | CHC-C1C | 4.98 | 1.47 | 1.35 |
| 33 | 4 | 304 | CHL | O2D-CGD | 4.97 | 1.45 | 1.33 |
| 25 | a | 303 | CLA | C2-C3 | 4.97 | 1.44 | 1.33 |
| 33 | T | 607 | CHL | CHD-C1D | 4.97 | 1.48 | 1.38 |
| 33 | S | 307 | CHL | O2D-CGD | 4.97 | 1.45 | 1.33 |
| 33 | T | 607 | CHL | CHC-C1C | 4.96 | 1.47 | 1.35 |
| 33 | U | 306 | CHL | C3B-C2B | 4.95 | 1.47 | 1.40 |
| 33 | S | 306 | CHL | CHD-C1D | 4.94 | 1.48 | 1.38 |
| 33 | P | 606 | CHL | O2D-CGD | 4.94 | 1.45 | 1.33 |
| 33 | P | 605 | CHL | O2D-CGD | 4.94 | 1.45 | 1.33 |
| 33 | R | 608 | CHL | O2D-CGD | 4.93 | 1.45 | 1.33 |
| 33 | T | 605 | CHL | O2D-CGD | 4.93 | 1.45 | 1.33 |
| 33 | Q | 607 | CHL | O2D-CGD | 4.93 | 1.45 | 1.33 |
| 33 | 4 | 305 | CHL | CHD-C1D | 4.93 | 1.48 | 1.38 |
| 33 | R | 605 | CHL | O2D-CGD | 4.92 | 1.45 | 1.33 |
| 33 | T | 606 | CHL | O2D-CGD | 4.92 | 1.45 | 1.33 |
| 33 | 6 | 607 | CHL | O2D-CGD | 4.92 | 1.45 | 1.33 |
| 33 | P | 608 | CHL | O2D-CGD | 4.91 | 1.45 | 1.33 |
| 33 | a | 305 | CHL | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 33 | 9 | 306 | CHL | C3A-C2A | -4.91 | 1.49 | 1.54 |
| 33 | 6 | 617 | CHL | O2D-CGD | 4.90 | 1.45 | 1.33 |
| 33 | T | 606 | CHL | C2C-C3C | 4.90 | 1.47 | 1.36 |
| 33 | Q | 606 | CHL | C3B-C2B | 4.89 | 1.47 | 1.40 |
| 33 | R | 605 | CHL | CHC-C1C | 4.89 | 1.47 | 1.35 |
| 33 | a | 305 | CHL | CHD-C1D | 4.89 | 1.47 | 1.38 |
| 33 | 7 | 305 | CHL | O2D-CGD | 4.88 | 1.45 | 1.33 |
| 33 | T | 604 | CHL | C2C-C3C | 4.88 | 1.47 | 1.36 |
| 33 | P | 605 | CHL | C2C-C3C | 4.87 | 1.47 | 1.36 |
| 33 | Q | 607 | CHL | CHD-C1D | 4.87 | 1.47 | 1.38 |
| 33 | U | 306 | CHL | O2D-CGD | 4.87 | 1.45 | 1.33 |
| 33 | U | 308 | CHL | O2D-CGD | 4.87 | 1.45 | 1.33 |
| 33 | P | 608 | CHL | CHD-C1D | 4.86 | 1.47 | 1.38 |
| 33 | R | 608 | CHL | CHD-C1D | 4.86 | 1.47 | 1.38 |
| 33 | U | 308 | CHL | CHD-C1D | 4.86 | 1.47 | 1.38 |
| 33 | U | 307 | CHL | O2D-CGD | 4.86 | 1.45 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 9 | 306 | CHL | O2D-CGD | 4.86 | 1.45 | 1.33 |
| 33 | S | 307 | CHL | C2C-C3C | 4.86 | 1.47 | 1.36 |
| 33 | S | 321 | CHL | C2C-C3C | 4.85 | 1.47 | 1.36 |
| 33 | U | 306 | CHL | C2C-C3C | 4.85 | 1.47 | 1.36 |
| 33 | 4 | 322 | CHL | O2D-CGD | 4.85 | 1.45 | 1.33 |
| 33 | R | 606 | CHL | CHC-C1C | 4.84 | 1.47 | 1.35 |
| 33 | 5 | 317 | CHL | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 33 | S | 321 | CHL | C3B-C2B | 4.83 | 1.47 | 1.40 |
| 33 | S | 302 | CHL | CHC-C1C | 4.83 | 1.47 | 1.35 |
| 33 | U | 305 | CHL | C2C-C3C | 4.83 | 1.47 | 1.36 |
| 33 | U | 307 | CHL | C2C-C3C | 4.82 | 1.47 | 1.36 |
| 25 | P | 611 | CLA | CHC-C1C | 4.82 | 1.47 | 1.35 |
| 33 | P | 619 | CHL | C3B-C2B | 4.80 | 1.47 | 1.40 |
| 33 | S | 310 | CHL | C3B-C2B | 4.80 | 1.47 | 1.40 |
| 33 | a | 305 | CHL | O2D-CGD | 4.80 | 1.44 | 1.33 |
| 33 | T | 604 | CHL | CHC-C1C | 4.79 | 1.47 | 1.35 |
| 33 | T | 606 | CHL | CHD-C1D | 4.79 | 1.47 | 1.38 |
| 33 | Q | 605 | CHL | C3A-C2A | -4.79 | 1.50 | 1.54 |
| 33 | S | 306 | CHL | C2C-C3C | 4.79 | 1.47 | 1.36 |
| 33 | S | 310 | CHL | CHD-C1D | 4.79 | 1.47 | 1.38 |
| 33 | P | 607 | CHL | C3B-C2B | 4.78 | 1.47 | 1.40 |
| 33 | P | 606 | CHL | C3B-C2B | 4.78 | 1.47 | 1.40 |
| 33 | S | 310 | CHL | CHC-C1C | 4.77 | 1.47 | 1.35 |
| 33 | U | 307 | CHL | CHC-C1C | 4.77 | 1.47 | 1.35 |
| 33 | Q | 605 | CHL | C2C-C3C | 4.76 | 1.46 | 1.36 |
| 33 | R | 605 | CHL | C3B-C2B | 4.76 | 1.47 | 1.40 |
| 33 | Q | 605 | CHL | CHD-C1D | 4.76 | 1.47 | 1.38 |
| 33 | U | 305 | CHL | C3B-C2B | 4.76 | 1.47 | 1.40 |
| 33 | T | 606 | CHL | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 33 | U | 306 | CHL | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 33 | R | 607 | CHL | C3B-C2B | 4.76 | 1.47 | 1.40 |
| 33 | 8 | 307 | CHL | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 33 | Q | 605 | CHL | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 33 | P | 606 | CHL | C2C-C3C | 4.75 | 1.46 | 1.36 |
| 33 | P | 619 | CHL | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 33 | U | 308 | CHL | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 33 | S | 321 | CHL | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 33 | P | 619 | CHL | CHD-C1D | 4.74 | 1.47 | 1.38 |
| 33 | S | 321 | CHL | CHD-C1D | 4.74 | 1.47 | 1.38 |
| 33 | Q | 606 | CHL | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 33 | P | 606 | CHL | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 33 | S | 308 | CHL | CHC-C1C | 4.73 | 1.47 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 33 | Q | 607 | CHL | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 33 | P | 606 | CHL | CHD-C1D | 4.73 | 1.47 | 1.38 |
| 33 | U | 307 | CHL | CHD-C1D | 4.73 | 1.47 | 1.38 |
| 33 | R | 607 | CHL | CHD-C1D | 4.73 | 1.47 | 1.38 |
| 33 | P | 607 | CHL | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 33 | S | 309 | CHL | C2C-C3C | 4.73 | 1.46 | 1.36 |
| 33 | P | 608 | CHL | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 33 | 6 | 608 | CHL | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 33 | R | 608 | CHL | CHC-C1C | 4.72 | 1.47 | 1.35 |
| 33 | P | 607 | CHL | CHD-C1D | 4.72 | 1.47 | 1.38 |
| 33 | 6 | 617 | CHL | CHD-C1D | 4.71 | 1.47 | 1.38 |
| 33 | Q | 606 | CHL | C2C-C3C | 4.71 | 1.46 | 1.36 |
| 33 | S | 310 | CHL | C2C-C3C | 4.71 | 1.46 | 1.36 |
| 33 | Q | 605 | CHL | C3B-C2B | 4.71 | 1.46 | 1.40 |
| 33 | R | 607 | CHL | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 33 | 9 | 307 | CHL | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 33 | 7 | 305 | CHL | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 33 | S | 321 | CHL | O2D-CGD | 4.70 | 1.44 | 1.33 |
| 33 | U | 305 | CHL | CHD-C1D | 4.70 | 1.47 | 1.38 |
| 33 | P | 605 | CHL | CHD-C1D | 4.70 | 1.47 | 1.38 |
| 33 | 8 | 307 | CHL | CHD-C1D | 4.69 | 1.47 | 1.38 |
| 33 | T | 604 | CHL | CHD-C1D | 4.69 | 1.47 | 1.38 |
| 33 | T | 605 | CHL | CHD-C1D | 4.69 | 1.47 | 1.38 |
| 33 | T | 605 | CHL | C2C-C3C | 4.69 | 1.46 | 1.36 |
| 33 | Q | 606 | CHL | CHD-C1D | 4.69 | 1.47 | 1.38 |
| 33 | U | 305 | CHL | CHC-C1C | 4.68 | 1.47 | 1.35 |
| 33 | 1 | 606 | CHL | O2D-CGD | 4.68 | 1.44 | 1.33 |
| 33 | U | 306 | CHL | CHD-C1D | 4.68 | 1.47 | 1.38 |
| 33 | P | 605 | CHL | CHC-C1C | 4.66 | 1.46 | 1.35 |
| 33 | R | 606 | CHL | CHD-C1D | 4.66 | 1.47 | 1.38 |
| 33 | 4 | 305 | CHL | C2C-C3C | 4.66 | 1.46 | 1.36 |
| 33 | S | 308 | CHL | CHD-C1D | 4.66 | 1.47 | 1.38 |
| 33 | Q | 607 | CHL | C2C-C3C | 4.65 | 1.46 | 1.36 |
| 33 | 6 | 607 | CHL | CHC-C1C | 4.65 | 1.46 | 1.35 |
| 33 | S | 309 | CHL | CHC-C1C | 4.65 | 1.46 | 1.35 |
| 33 | 5 | 307 | CHL | CHC-C1C | 4.65 | 1.46 | 1.35 |
| 33 | R | 606 | CHL | C2C-C3C | 4.65 | 1.46 | 1.36 |
| 33 | S | 307 | CHL | C3B-C2B | 4.64 | 1.46 | 1.40 |
| 33 | 5 | 307 | CHL | O2D-CGD | 4.64 | 1.44 | 1.33 |
| 33 | 1 | 606 | CHL | C2C-C3C | 4.64 | 1.46 | 1.36 |
| 33 | 4 | 314 | CHL | CHD-C1D | 4.64 | 1.47 | 1.38 |
| 33 | T | 605 | CHL | CHC-C1C | 4.64 | 1.46 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 33 | S | 309 | CHL | C3B-C2B | 4.64 | 1.46 | 1.40 |
| 33 | T | 606 | CHL | C3B-C2B | 4.63 | 1.46 | 1.40 |
| 33 | R | 608 | CHL | C2C-C3C | 4.63 | 1.46 | 1.36 |
| 33 | U | 308 | CHL | C2C-C3C | 4.62 | 1.46 | 1.36 |
| 33 | 1 | 606 | CHL | CHD-C1D | 4.62 | 1.47 | 1.38 |
| 33 | P | 608 | CHL | C2C-C3C | 4.62 | 1.46 | 1.36 |
| 33 | U | 307 | CHL | C3B-C2B | 4.61 | 1.46 | 1.40 |
| 33 | 1 | 601 | CHL | O2D-CGD | 4.61 | 1.44 | 1.33 |
| 33 | 4 | 304 | CHL | CHC-C1C | 4.61 | 1.46 | 1.35 |
| 33 | a | 305 | CHL | C2C-C3C | 4.60 | 1.46 | 1.36 |
| 33 | U | 308 | CHL | C3B-C2B | 4.60 | 1.46 | 1.40 |
| 33 | 6 | 617 | CHL | CHC-C1C | 4.60 | 1.46 | 1.35 |
| 33 | S | 309 | CHL | CHD-C1D | 4.58 | 1.47 | 1.38 |
| 33 | R | 606 | CHL | C3B-C2B | 4.58 | 1.46 | 1.40 |
| 33 | 6 | 608 | CHL | O2D-CGD | 4.58 | 1.44 | 1.33 |
| 33 | T | 604 | CHL | C3B-C2B | 4.57 | 1.46 | 1.40 |
| 33 | R | 605 | CHL | O2A-CGA | 4.57 | 1.46 | 1.30 |
| 33 | P | 619 | CHL | C2C-C3C | 4.57 | 1.46 | 1.36 |
| 33 | S | 308 | CHL | C3B-C2B | 4.56 | 1.46 | 1.40 |
| 33 | 4 | 306 | CHL | CHC-C1C | 4.56 | 1.46 | 1.35 |
| 33 | 5 | 308 | CHL | CHC-C1C | 4.56 | 1.46 | 1.35 |
| 33 | P | 607 | CHL | C2C-C3C | 4.56 | 1.46 | 1.36 |
| 33 | 9 | 306 | CHL | CHC-C1C | 4.56 | 1.46 | 1.35 |
| 33 | 4 | 314 | CHL | CHC-C1C | 4.54 | 1.46 | 1.35 |
| 33 | 5 | 317 | CHL | CHC-C1C | 4.53 | 1.46 | 1.35 |
| 33 | R | 607 | CHL | C2C-C3C | 4.53 | 1.46 | 1.36 |
| 33 | P | 622 | CHL | C2C-C3C | 4.53 | 1.46 | 1.36 |
| 33 | 9 | 307 | CHL | CHD-C1D | 4.53 | 1.47 | 1.38 |
| 33 | 4 | 322 | CHL | CHC-C1C | 4.52 | 1.46 | 1.35 |
| 33 | 6 | 607 | CHL | C2C-C3C | 4.52 | 1.46 | 1.36 |
| 33 | 5 | 307 | CHL | CHD-C1D | 4.52 | 1.47 | 1.38 |
| 33 | U | 305 | CHL | O2A-CGA | 4.51 | 1.45 | 1.30 |
| 33 | 6 | 606 | CHL | O2A-CGA | 4.51 | 1.46 | 1.33 |
| 33 | a | 305 | CHL | C3B-C2B | 4.51 | 1.46 | 1.40 |
| 33 | 4 | 322 | CHL | C2C-C3C | 4.50 | 1.46 | 1.36 |
| 33 | 5 | 307 | CHL | C2C-C3C | 4.49 | 1.46 | 1.36 |
| 33 | 4 | 304 | CHL | CHD-C1D | 4.49 | 1.47 | 1.38 |
| 33 | 4 | 306 | CHL | O2D-CGD | 4.48 | 1.44 | 1.33 |
| 31 | B | 850 | SQD | O8-S | 4.48 | 1.63 | 1.47 |
| 33 | P | 605 | CHL | C3B-C2B | 4.48 | 1.46 | 1.40 |
| 33 | 5 | 308 | CHL | O2D-CGD | 4.46 | 1.44 | 1.33 |
| 33 | 4 | 314 | CHL | C3B-C2B | 4.45 | 1.46 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 33 | 7 | 305 | CHL | CHD-C1D | 4.45 | 1.47 | 1.38 |
| 33 | 6 | 606 | CHL | CHC-C1C | 4.45 | 1.46 | 1.35 |
| 33 | 1 | 601 | CHL | CHC-C1C | 4.45 | 1.46 | 1.35 |
| 33 | 6 | 617 | CHL | C3B-C2B | 4.44 | 1.46 | 1.40 |
| 33 | 1 | 606 | CHL | O2A-CGA | 4.43 | 1.46 | 1.33 |
| 33 | 4 | 306 | CHL | O2A-CGA | 4.42 | 1.46 | 1.33 |
| 33 | T | 605 | CHL | O2A-CGA | 4.42 | 1.46 | 1.33 |
| 33 | a | 305 | CHL | O2A-CGA | 4.42 | 1.46 | 1.33 |
| 33 | S | 308 | CHL | C2C-C3C | 4.42 | 1.46 | 1.36 |
| 33 | S | 302 | CHL | C2C-C3C | 4.41 | 1.46 | 1.36 |
| 27 | A | 852 | LHG | O7-C7 | 4.41 | 1.46 | 1.34 |
| 33 | S | 302 | CHL | C3B-C2B | 4.41 | 1.46 | 1.40 |
| 33 | Q | 606 | CHL | O2A-CGA | 4.38 | 1.46 | 1.33 |
| 33 | S | 306 | CHL | CHC-C1C | 4.38 | 1.46 | 1.35 |
| 33 | 3 | 306 | CHL | CHC-C1C | 4.38 | 1.46 | 1.35 |
| 33 | 6 | 617 | CHL | C2C-C3C | 4.38 | 1.46 | 1.36 |
| 31 | B | 850 | SQD | O48-C23 | 4.38 | 1.46 | 1.33 |
| 33 | S | 302 | CHL | CHD-C1D | 4.37 | 1.46 | 1.38 |
| 33 | 4 | 305 | CHL | C3B-C2B | 4.37 | 1.46 | 1.40 |
| 33 | P | 605 | CHL | O2A-CGA | 4.37 | 1.46 | 1.33 |
| 33 | 9 | 307 | CHL | C3B-C2B | 4.37 | 1.46 | 1.40 |
| 33 | 4 | 306 | CHL | CHD-C1D | 4.37 | 1.46 | 1.38 |
| 33 | 7 | 305 | CHL | O2A-CGA | 4.36 | 1.46 | 1.33 |
| 32 | 1 | 619 | LMG | O8-C28 | 4.36 | 1.46 | 1.33 |
| 33 | Q | 607 | CHL | C3B-C2B | 4.36 | 1.46 | 1.40 |
| 33 | P | 608 | CHL | C3B-C2B | 4.36 | 1.46 | 1.40 |
| 27 | T | 617 | LHG | O8-C23 | 4.36 | 1.46 | 1.33 |
| 33 | U | 309 | CHL | O2A-CGA | 4.35 | 1.46 | 1.33 |
| 33 | R | 608 | CHL | C3B-C2B | 4.35 | 1.46 | 1.40 |
| 25 | P | 612 | CLA | O2D-CGD | 4.35 | 1.43 | 1.33 |
| 33 | P | 606 | CHL | O2A-CGA | 4.35 | 1.46 | 1.33 |
| 33 | 4 | 322 | CHL | CHD-C1D | 4.34 | 1.46 | 1.38 |
| 25 | R | 612 | CLA | O2D-CGD | 4.33 | 1.43 | 1.33 |
| 33 | 5 | 317 | CHL | C2C-C3C | 4.33 | 1.46 | 1.36 |
| 33 | 6 | 608 | CHL | CHD-C1D | 4.33 | 1.46 | 1.38 |
| 33 | Q | 601 | CHL | O2A-CGA | 4.33 | 1.46 | 1.33 |
| 33 | 4 | 305 | CHL | O2A-CGA | 4.33 | 1.46 | 1.33 |
| 33 | 8 | 307 | CHL | C2C-C3C | 4.33 | 1.46 | 1.36 |
| 33 | 6 | 606 | CHL | CHD-C1D | 4.33 | 1.46 | 1.38 |
| 33 | 9 | 306 | CHL | CHD-C1D | 4.33 | 1.46 | 1.38 |
| 32 | 6 | 602 | LMG | O8-C28 | 4.33 | 1.46 | 1.33 |
| 33 | 1 | 606 | CHL | C3B-C2B | 4.33 | 1.46 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 6 | 608 | CHL | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 33 | 9 | 307 | CHL | C2C-C3C | 4.32 | 1.46 | 1.36 |
| 33 | P | 601 | CHL | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 33 | 4 | 314 | CHL | C2C-C3C | 4.32 | 1.46 | 1.36 |
| 33 | T | 601 | CHL | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 33 | R | 601 | CHL | O2A-CGA | 4.31 | 1.45 | 1.33 |
| 33 | S | 307 | CHL | O2A-CGA | 4.31 | 1.45 | 1.33 |
| 33 | U | 306 | CHL | O2A-CGA | 4.31 | 1.45 | 1.33 |
| 33 | 9 | 307 | CHL | O2A-CGA | 4.31 | 1.45 | 1.33 |
| 33 | T | 607 | CHL | O2A-CGA | 4.30 | 1.45 | 1.33 |
| 33 | 4 | 304 | CHL | C3A-C2A | -4.30 | 1.50 | 1.54 |
| 25 | T | 610 | CLA | C1D-ND | 4.29 | 1.43 | 1.37 |
| 33 | 4 | 322 | CHL | C3B-C2B | 4.28 | 1.46 | 1.40 |
| 33 | 5 | 308 | CHL | O2A-CGA | 4.28 | 1.45 | 1.33 |
| 32 | 2 | 301 | LMG | O8-C28 | 4.28 | 1.45 | 1.33 |
| 25 | R | 603 | CLA | C1D-ND | 4.28 | 1.43 | 1.37 |
| 33 | 5 | 307 | CHL | O2A-CGA | 4.27 | 1.45 | 1.33 |
| 27 | S | 319 | LHG | O8-C23 | 4.26 | 1.45 | 1.33 |
| 33 | 5 | 317 | CHL | CHD-C1D | 4.26 | 1.46 | 1.38 |
| 33 | S | 308 | CHL | O2A-CGA | 4.26 | 1.45 | 1.33 |
| 27 | P | 624 | LHG | O8-C23 | 4.26 | 1.45 | 1.33 |
| 33 | S | 310 | CHL | O2A-CGA | 4.25 | 1.45 | 1.33 |
| 33 | S | 302 | CHL | O2A-CGA | 4.25 | 1.45 | 1.33 |
| 33 | 1 | 601 | CHL | C2C-C3C | 4.25 | 1.45 | 1.36 |
| 27 | P | 618 | LHG | O8-C23 | 4.24 | 1.45 | 1.33 |
| 32 | 7 | 319 | LMG | O7-C10 | 4.24 | 1.46 | 1.34 |
| 33 | S | 309 | CHL | O2A-CGA | 4.23 | 1.45 | 1.33 |
| 33 | U | 307 | CHL | O2A-CGA | 4.23 | 1.45 | 1.33 |
| 33 | T | 604 | CHL | O2A-CGA | 4.23 | 1.45 | 1.33 |
| 33 | 3 | 306 | CHL | O2D-CGD | 4.23 | 1.43 | 1.33 |
| 33 | 7 | 305 | CHL | C2C-C3C | 4.23 | 1.45 | 1.36 |
| 33 | 6 | 607 | CHL | O2A-CGA | 4.22 | 1.45 | 1.33 |
| 33 | 9 | 306 | CHL | C2C-C3C | 4.22 | 1.45 | 1.36 |
| 32 | J | 107 | LMG | O8-C28 | 4.22 | 1.45 | 1.33 |
| 32 | 7 | 318 | LMG | O8-C28 | 4.22 | 1.45 | 1.33 |
| 33 | 1 | 601 | CHL | CHD-C1D | 4.21 | 1.46 | 1.38 |
| 27 | R | 618 | LHG | O7-C7 | 4.21 | 1.46 | 1.34 |
| 33 | 8 | 307 | CHL | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 33 | P | 619 | CHL | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 32 | 7 | 319 | LMG | O8-C28 | 4.21 | 1.45 | 1.33 |
| 27 | A | 844 | LHG | O8-C23 | 4.20 | 1.45 | 1.33 |
| 33 | 6 | 607 | CHL | CHD-C1D | 4.20 | 1.46 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 3 | 306 | CHL | O2A-CGA | 4.20 | 1.45 | 1.33 |
| 33 | 3 | 306 | CHL | CHD-C1D | 4.20 | 1.46 | 1.38 |
| 33 | P | 622 | CHL | O2A-CGA | 4.19 | 1.45 | 1.33 |
| 32 | J | 107 | LMG | O7-C10 | 4.19 | 1.46 | 1.34 |
| 33 | 4 | 306 | CHL | C3B-C2B | 4.19 | 1.46 | 1.40 |
| 27 | 4 | 318 | LHG | O8-C23 | 4.18 | 1.45 | 1.33 |
| 33 | P | 607 | CHL | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 33 | S | 306 | CHL | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 33 | 4 | 304 | CHL | C2C-C3C | 4.18 | 1.45 | 1.36 |
| 33 | R | 607 | CHL | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 32 | 2 | 301 | LMG | O7-C10 | 4.17 | 1.46 | 1.34 |
| 32 | 4 | 320 | LMG | O8-C28 | 4.16 | 1.45 | 1.33 |
| 33 | S | 321 | CHL | O2A-CGA | 4.16 | 1.45 | 1.33 |
| 25 | Q | 610 | CLA | C1D-ND | 4.16 | 1.42 | 1.37 |
| 25 | A | 829 | CLA | C4D-ND | -4.14 | 1.32 | 1.37 |
| 30 | B | 848 | DGD | O1G-C1A | 4.14 | 1.45 | 1.33 |
| 32 | 7 | 318 | LMG | O7-C10 | 4.14 | 1.46 | 1.34 |
| 33 | 6 | 607 | CHL | C3B-C2B | 4.14 | 1.46 | 1.40 |
| 32 | H | 204 | LMG | O8-C28 | 4.13 | 1.45 | 1.33 |
| 27 | Q | 617 | LHG | O8-C23 | 4.13 | 1.45 | 1.33 |
| 33 | 5 | 308 | CHL | CHD-C1D | 4.13 | 1.46 | 1.38 |
| 27 | P | 624 | LHG | O7-C7 | 4.12 | 1.45 | 1.34 |
| 27 | 4 | 319 | LHG | O8-C23 | 4.11 | 1.45 | 1.33 |
| 32 | 1 | 619 | LMG | O7-C10 | 4.11 | 1.45 | 1.34 |
| 27 | R | 618 | LHG | O8-C23 | 4.11 | 1.45 | 1.33 |
| 33 | 5 | 308 | CHL | C3B-C2B | 4.09 | 1.46 | 1.40 |
| 25 | R | 611 | CLA | C1D-ND | 4.09 | 1.42 | 1.37 |
| 33 | 4 | 304 | CHL | C3B-C2B | 4.09 | 1.46 | 1.40 |
| 27 | Q | 617 | LHG | O7-C7 | 4.09 | 1.45 | 1.34 |
| 31 | B | 850 | SQD | O47-C7 | 4.08 | 1.45 | 1.34 |
| 27 | B | 847 | LHG | O7-C7 | 4.07 | 1.45 | 1.34 |
| 27 | 8 | 319 | LHG | O7-C7 | 4.07 | 1.45 | 1.34 |
| 27 | 5 | 301 | LHG | O7-C7 | 4.07 | 1.45 | 1.34 |
| 25 | A | 814 | CLA | C4D-ND | -4.07 | 1.32 | 1.37 |
| 27 | 4 | 318 | LHG | O7-C7 | 4.07 | 1.45 | 1.34 |
| 33 | 4 | 306 | CHL | C2C-C3C | 4.07 | 1.45 | 1.36 |
| 27 | 8 | 319 | LHG | O8-C23 | 4.06 | 1.45 | 1.33 |
| 27 | 5 | 301 | LHG | O8-C23 | 4.06 | 1.45 | 1.33 |
| 25 | Q | 611 | CLA | C1D-ND | 4.06 | 1.42 | 1.37 |
| 27 | P | 618 | LHG | O7-C7 | 4.05 | 1.45 | 1.34 |
| 32 | J | 104 | LMG | O8-C28 | 4.04 | 1.45 | 1.33 |
| 33 | 8 | 307 | CHL | C3B-C2B | 4.04 | 1.46 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | B | 811 | CLA | C4D-ND | -4.04 | 1.32 | 1.37 |
| 32 | J | 102 | LMG | O8-C28 | 4.03 | 1.45 | 1.33 |
| 27 | 1 | 618 | LHG | O8-C23 | 4.03 | 1.45 | 1.33 |
| 32 | H | 204 | LMG | O7-C10 | 4.03 | 1.45 | 1.34 |
| 25 | A | 806 | CLA | C4D-ND | -4.03 | 1.32 | 1.37 |
| 33 | P | 601 | CHL | CHD-C4C | 4.03 | 1.48 | 1.39 |
| 27 | 6 | 618 | LHG | O8-C23 | 4.03 | 1.45 | 1.33 |
| 33 | Q | 601 | CHL | CHD-C4C | 4.03 | 1.48 | 1.39 |
| 25 | A | 825 | CLA | C4D-ND | -4.02 | 1.32 | 1.37 |
| 33 | R | 606 | CHL | O2A-CGA | 4.02 | 1.45 | 1.33 |
| 32 | 4 | 320 | LMG | O7-C10 | 4.01 | 1.45 | 1.34 |
| 33 | R | 601 | CHL | CHD-C4C | 4.01 | 1.48 | 1.39 |
| 27 | 5 | 321 | LHG | O8-C23 | 4.01 | 1.45 | 1.33 |
| 30 | B | 846 | DGD | O1G-C1A | 4.01 | 1.45 | 1.33 |
| 33 | 4 | 322 | CHL | O2A-CGA | 4.01 | 1.45 | 1.33 |
| 25 | Q | 618 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 27 | S | 319 | LHG | O7-C7 | 4.00 | 1.45 | 1.34 |
| 27 | T | 617 | LHG | O7-C7 | 4.00 | 1.45 | 1.34 |
| 25 | B | 837 | CLA | C4D-ND | -3.99 | 1.32 | 1.37 |
| 27 | 2 | 317 | LHG | O8-C23 | 3.99 | 1.45 | 1.33 |
| 33 | 1 | 601 | CHL | O2A-CGA | 3.99 | 1.45 | 1.33 |
| 33 | 6 | 606 | CHL | C2C-C3C | 3.98 | 1.45 | 1.36 |
| 33 | T | 601 | CHL | CHD-C4C | 3.98 | 1.48 | 1.39 |
| 25 | T | 609 | CLA | C1D-ND | 3.98 | 1.42 | 1.37 |
| 25 | A | 802 | CLA | C4D-ND | -3.98 | 1.32 | 1.37 |
| 27 | A | 843 | LHG | O8-C23 | 3.98 | 1.45 | 1.33 |
| 27 | a | 317 | LHG | O8-C23 | 3.98 | 1.45 | 1.33 |
| 30 | B | 848 | DGD | O2G-C1B | 3.98 | 1.45 | 1.34 |
| 25 | A | 803 | CLA | C4D-ND | -3.97 | 1.32 | 1.37 |
| 25 | 6 | 610 | CLA | C1D-ND | 3.97 | 1.42 | 1.37 |
| 32 | 6 | 602 | LMG | O7-C10 | 3.97 | 1.45 | 1.34 |
| 32 | J | 104 | LMG | O7-C10 | 3.97 | 1.45 | 1.34 |
| 27 | B | 847 | LHG | O8-C23 | 3.96 | 1.44 | 1.33 |
| 33 | U | 309 | CHL | CHD-C4C | 3.96 | 1.48 | 1.39 |
| 25 | R | 610 | CLA | C1D-ND | 3.95 | 1.42 | 1.37 |
| 33 | 6 | 608 | CHL | C3B-C2B | 3.95 | 1.45 | 1.40 |
| 33 | Q | 608 | CHL | C4B-NB | 3.94 | 1.38 | 1.35 |
| 25 | R | 614 | CLA | C1D-ND | 3.94 | 1.42 | 1.37 |
| 25 | B | 823 | CLA | C4D-ND | -3.94 | 1.32 | 1.37 |
| 33 | 9 | 306 | CHL | C3B-C2B | 3.94 | 1.45 | 1.40 |
| 33 | R | 605 | CHL | CHD-C4C | 3.93 | 1.48 | 1.39 |
| 33 | P | 609 | CHL | C4B-NB | 3.92 | 1.38 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 27 | 4 | 319 | LHG | O7-C7 | 3.92 | 1.45 | 1.34 |
| 25 | S | 314 | CLA | C1D-ND | 3.92 | 1.42 | 1.37 |
| 25 | 9 | 301 | CLA | CAB-C3B | -3.92 | 1.43 | 1.51 |
| 25 | P | 613 | CLA | C1D-ND | 3.92 | 1.42 | 1.37 |
| 33 | 7 | 305 | CHL | C3B-C2B | 3.91 | 1.45 | 1.40 |
| 25 | R | 613 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |
| 25 | S | 313 | CLA | C1D-ND | 3.90 | 1.42 | 1.37 |
| 27 | 2 | 317 | LHG | O7-C7 | 3.90 | 1.45 | 1.34 |
| 25 | U | 302 | CLA | C1D-ND | 3.90 | 1.42 | 1.37 |
| 25 | B | 825 | CLA | C4D-ND | -3.90 | 1.32 | 1.37 |
| 25 | 3 | 307 | CLA | C4D-ND | -3.89 | 1.32 | 1.37 |
| 33 | S | 306 | CHL | C3B-C2B | 3.89 | 1.45 | 1.40 |
| 25 | B | 833 | CLA | C4D-ND | -3.89 | 1.32 | 1.37 |
| 25 | Q | 611 | CLA | C4D-ND | -3.89 | 1.32 | 1.37 |
| 25 | A | 826 | CLA | C4D-ND | -3.89 | 1.32 | 1.37 |
| 25 | P | 611 | CLA | C3A-C2A | -3.89 | 1.50 | 1.54 |
| 25 | B | 809 | CLA | C4D-ND | -3.89 | 1.32 | 1.37 |
| 27 | 5 | 321 | LHG | O7-C7 | 3.89 | 1.45 | 1.34 |
| 33 | 5 | 317 | CHL | C3B-C2B | 3.89 | 1.45 | 1.40 |
| 25 | R | 602 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 25 | B | 826 | CLA | C4D-ND | -3.88 | 1.32 | 1.37 |
| 25 | B | 804 | CLA | C4D-ND | -3.88 | 1.32 | 1.37 |
| 25 | Q | 613 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 27 | A | 843 | LHG | O7-C7 | 3.87 | 1.45 | 1.34 |
| 25 | B | 808 | CLA | C4D-ND | -3.87 | 1.32 | 1.37 |
| 25 | A | 823 | CLA | C4D-ND | -3.86 | 1.32 | 1.37 |
| 25 | B | 815 | CLA | C4D-ND | -3.86 | 1.32 | 1.37 |
| 25 | 3 | 320 | CLA | C4D-ND | -3.86 | 1.32 | 1.37 |
| 33 | S | 307 | CHL | CHD-C4C | 3.86 | 1.48 | 1.39 |
| 25 | A | 801 | CLA | C4D-ND | -3.86 | 1.32 | 1.37 |
| 33 | R | 609 | CHL | C4B-NB | 3.85 | 1.38 | 1.35 |
| 25 | 3 | 303 | CLA | C4D-ND | -3.84 | 1.32 | 1.37 |
| 25 | B | 829 | CLA | C4D-ND | -3.84 | 1.32 | 1.37 |
| 25 | 3 | 313 | CLA | C4D-ND | -3.84 | 1.32 | 1.37 |
| 25 | A | 820 | CLA | C4D-ND | -3.84 | 1.32 | 1.37 |
| 25 | Q | 602 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 27 | A | 852 | LHG | O8-C23 | 3.84 | 1.44 | 1.33 |
| 25 | T | 611 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 33 | U | 305 | CHL | OBD-CAD | 3.83 | 1.29 | 1.22 |
| 25 | 5 | 313 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |
| 33 | T | 607 | CHL | CHD-C4C | 3.83 | 1.48 | 1.39 |
| 25 | U | 312 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | T | 602 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |
| 32 | J | 102 | LMG | O7-C10 | 3.82 | 1.45 | 1.34 |
| 25 | U | 311 | CLA | C4D-ND | -3.82 | 1.32 | 1.37 |
| 25 | L | 206 | CLA | C4D-ND | -3.82 | 1.32 | 1.37 |
| 25 | 7 | 308 | CLA | C4D-ND | -3.82 | 1.32 | 1.37 |
| 25 | B | 802 | CLA | C4D-ND | -3.82 | 1.32 | 1.37 |
| 33 | 6 | 617 | CHL | CHD-C4C | 3.81 | 1.47 | 1.39 |
| 33 | 5 | 307 | CHL | C3B-C2B | 3.81 | 1.45 | 1.40 |
| 25 | T | 612 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 27 | 7 | 317 | LHG | O7-C7 | 3.81 | 1.45 | 1.34 |
| 25 | Q | 609 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 25 | U | 310 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 27 | a | 317 | LHG | O7-C7 | 3.81 | 1.45 | 1.34 |
| 25 | 5 | 303 | CLA | C4D-ND | -3.81 | 1.32 | 1.37 |
| 33 | 4 | 305 | CHL | CHD-C4C | 3.81 | 1.47 | 1.39 |
| 33 | 6 | 608 | CHL | C2C-C3C | 3.80 | 1.44 | 1.36 |
| 25 | S | 312 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 25 | B | 827 | CLA | C4D-ND | -3.79 | 1.32 | 1.37 |
| 33 | 3 | 306 | CHL | C2C-C3C | 3.79 | 1.44 | 1.36 |
| 25 | Q | 612 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 25 | U | 311 | CLA | CAD-C3D | -3.78 | 1.43 | 1.50 |
| 33 | T | 606 | CHL | CHD-C4C | 3.78 | 1.47 | 1.39 |
| 25 | L | 205 | CLA | C4D-ND | -3.78 | 1.32 | 1.37 |
| 25 | O | 203 | CLA | CAB-C3B | -3.78 | 1.43 | 1.51 |
| 25 | U | 303 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 25 | 3 | 301 | CLA | C4D-ND | -3.78 | 1.32 | 1.37 |
| 25 | U | 313 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 33 | R | 607 | CHL | OBD-CAD | 3.76 | 1.29 | 1.22 |
| 27 | 1 | 618 | LHG | O7-C7 | 3.76 | 1.44 | 1.34 |
| 33 | P | 622 | CHL | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 25 | P | 604 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 25 | 8 | 303 | CLA | C4D-ND | -3.75 | 1.32 | 1.37 |
| 33 | T | 601 | CHL | OBD-CAD | 3.75 | 1.28 | 1.22 |
| 25 | S | 320 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 25 | 7 | 302 | CLA | C4D-ND | -3.75 | 1.32 | 1.37 |
| 25 | A | 835 | CLA | C4D-ND | -3.75 | 1.32 | 1.37 |
| 25 | T | 603 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 33 | P | 605 | CHL | OBD-CAD | 3.74 | 1.28 | 1.22 |
| 33 | a | 305 | CHL | CHD-C4C | 3.74 | 1.47 | 1.39 |
| 25 | 3 | 308 | CLA | C4D-ND | -3.74 | 1.32 | 1.37 |
| 33 | U | 307 | CHL | CHD-C4C | 3.74 | 1.47 | 1.39 |
| 25 | A | 804 | CLA | C4D-ND | -3.74 | 1.32 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | B | 805 | CLA | C4D-ND | -3.74 | 1.32 | 1.37 |
| 33 | P | 608 | CHL | CHD-C4C | 3.74 | 1.47 | 1.39 |
| 25 | R | 612 | CLA | C3B-C2B | -3.74 | 1.35 | 1.40 |
| 33 | T | 604 | CHL | OBD-CAD | 3.74 | 1.28 | 1.22 |
| 33 | Q | 605 | CHL | OBD-CAD | 3.74 | 1.28 | 1.22 |
| 25 | Q | 603 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 33 | P | 607 | CHL | OBD-CAD | 3.73 | 1.28 | 1.22 |
| 33 | R | 608 | CHL | CHD-C4C | 3.73 | 1.47 | 1.39 |
| 27 | 7 | 317 | LHG | O8-C23 | 3.73 | 1.44 | 1.33 |
| 33 | U | 308 | CHL | CHD-C4C | 3.73 | 1.47 | 1.39 |
| 25 | 4 | 301 | CLA | C4D-ND | -3.73 | 1.32 | 1.37 |
| 25 | U | 304 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 27 | A | 844 | LHG | O7-C7 | 3.73 | 1.44 | 1.34 |
| 25 | 7 | 313 | CLA | C4D-ND | -3.73 | 1.32 | 1.37 |
| 26 | B | 839 | PQN | C10-C5 | 3.73 | 1.46 | 1.40 |
| 25 | S | 304 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 33 | P | 619 | CHL | OBD-CAD | 3.72 | 1.28 | 1.22 |
| 33 | 1 | 601 | CHL | C3B-C2B | 3.72 | 1.45 | 1.40 |
| 25 | A | 842 | CLA | C4D-ND | -3.72 | 1.32 | 1.37 |
| 25 | L | 201 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 25 | 7 | 306 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 25 | A | 805 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 33 | U | 307 | CHL | OBD-CAD | 3.71 | 1.28 | 1.22 |
| 33 | Q | 607 | CHL | CHD-C4C | 3.71 | 1.47 | 1.39 |
| 25 | A | 838 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 25 | B | 824 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 33 | S | 308 | CHL | OBD-CAD | 3.71 | 1.28 | 1.22 |
| 25 | 2 | 302 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 25 | 6 | 620 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 25 | A | 832 | CLA | C4D-ND | -3.71 | 1.32 | 1.37 |
| 25 | B | 836 | CLA | C4D-ND | -3.70 | 1.32 | 1.37 |
| 27 | 6 | 618 | LHG | O7-C7 | 3.70 | 1.44 | 1.34 |
| 25 | H | 205 | CLA | C4D-ND | -3.70 | 1.32 | 1.37 |
| 33 | P | 606 | CHL | CHD-C4C | 3.70 | 1.47 | 1.39 |
| 33 | U | 308 | CHL | OBD-CAD | 3.70 | 1.28 | 1.22 |
| 25 | 5 | 305 | CLA | C4D-ND | -3.70 | 1.32 | 1.37 |
| 33 | 4 | 314 | CHL | OBD-CAD | 3.69 | 1.28 | 1.22 |
| 25 | A | 813 | CLA | C4D-ND | -3.69 | 1.32 | 1.37 |
| 25 | P | 612 | CLA | C3B-C2B | -3.69 | 1.35 | 1.40 |
| 25 | B | 810 | CLA | C4D-ND | -3.69 | 1.32 | 1.37 |
| 33 | 3 | 306 | CHL | C1D-ND | -3.69 | 1.33 | 1.37 |
| 33 | U | 305 | CHL | CHD-C4C | 3.68 | 1.47 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 6 | 603 | CLA | C4D-ND | -3.68 | 1.32 | 1.37 |
| 25 | A | 833 | CLA | C4D-ND | -3.68 | 1.32 | 1.37 |
| 33 | S | 310 | CHL | CHD-C4C | 3.68 | 1.47 | 1.39 |
| 33 | Q | 605 | CHL | CHD-C4C | 3.68 | 1.47 | 1.39 |
| 33 | S | 321 | CHL | CHD-C4C | 3.68 | 1.47 | 1.39 |
| 26 | A | 841 | PQN | C10-C5 | 3.67 | 1.46 | 1.40 |
| 25 | 9 | 303 | CLA | C4D-ND | -3.67 | 1.32 | 1.37 |
| 25 | K | 205 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 25 | A | 819 | CLA | C4D-ND | -3.67 | 1.32 | 1.37 |
| 25 | 7 | 304 | CLA | C4D-ND | -3.67 | 1.32 | 1.37 |
| 25 | Q | 604 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 25 | 5 | 316 | CLA | C4D-ND | -3.67 | 1.32 | 1.37 |
| 25 | A | 839 | CLA | C4D-ND | -3.66 | 1.32 | 1.37 |
| 25 | B | 817 | CLA | C4D-ND | -3.66 | 1.32 | 1.37 |
| 25 | P | 602 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 33 | S | 306 | CHL | CHD-C4C | 3.66 | 1.47 | 1.39 |
| 33 | 5 | 308 | CHL | C2C-C3C | 3.66 | 1.44 | 1.36 |
| 33 | S | 321 | CHL | OBD-CAD | 3.66 | 1.28 | 1.22 |
| 33 | U | 309 | CHL | OBD-CAD | 3.66 | 1.28 | 1.22 |
| 25 | B | 838 | CLA | C4D-ND | -3.66 | 1.32 | 1.37 |
| 33 | R | 605 | CHL | OBD-CAD | 3.65 | 1.28 | 1.22 |
| 25 | 4 | 309 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 25 | A | 840 | CLA | C4D-ND | -3.65 | 1.32 | 1.37 |
| 25 | a | 302 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 25 | A | 851 | CLA | C4D-ND | -3.65 | 1.32 | 1.37 |
| 33 | U | 306 | CHL | OBD-CAD | 3.65 | 1.28 | 1.22 |
| 33 | R | 601 | CHL | OBD-CAD | 3.64 | 1.28 | 1.22 |
| 33 | Q | 606 | CHL | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 25 | 5 | 309 | CLA | C4D-ND | -3.64 | 1.32 | 1.37 |
| 30 | B | 846 | DGD | O2G-C1B | 3.64 | 1.44 | 1.34 |
| 33 | P | 601 | CHL | OBD-CAD | 3.64 | 1.28 | 1.22 |
| 33 | P | 622 | CHL | OBD-CAD | 3.64 | 1.28 | 1.22 |
| 33 | 4 | 314 | CHL | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 25 | A | 807 | CLA | C4D-ND | -3.63 | 1.32 | 1.37 |
| 25 | A | 822 | CLA | C4D-ND | -3.63 | 1.32 | 1.37 |
| 25 | K | 204 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 25 | 1 | 612 | CLA | OBD-CAD | 3.63 | 1.28 | 1.22 |
| 33 | T | 606 | CHL | OBD-CAD | 3.63 | 1.28 | 1.22 |
| 25 | 8 | 305 | CLA | C4D-ND | -3.63 | 1.32 | 1.37 |
| 25 | P | 610 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 25 | 3 | 314 | CLA | C4D-ND | -3.63 | 1.32 | 1.37 |
| 33 | Q | 606 | CHL | OBD-CAD | 3.63 | 1.28 | 1.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 8 | 310 | CLA | C4D-ND | -3.63 | 1.32 | 1.37 |
| 25 | 2 | 310 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 25 | B | 822 | CLA | C4D-ND | -3.63 | 1.32 | 1.37 |
| 25 | B | 835 | CLA | C4D-ND | -3.63 | 1.32 | 1.37 |
| 33 | R | 606 | CHL | CHD-C4C | 3.62 | 1.47 | 1.39 |
| 36 | R | 617 | NEX | C7-C8 | -3.62 | 1.25 | 1.32 |
| 25 | A | 809 | CLA | C4D-ND | -3.62 | 1.32 | 1.37 |
| 33 | 1 | 601 | CHL | C1D-ND | -3.62 | 1.33 | 1.37 |
| 25 | a | 312 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 25 | 5 | 310 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 25 | 5 | 315 | CLA | C4D-ND | -3.61 | 1.32 | 1.37 |
| 25 | S | 305 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 33 | 1 | 606 | CHL | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 33 | T | 604 | CHL | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 33 | Q | 601 | CHL | OBD-CAD | 3.60 | 1.28 | 1.22 |
| 33 | S | 307 | CHL | OBD-CAD | 3.60 | 1.28 | 1.22 |
| 25 | 7 | 310 | CLA | C4D-ND | -3.60 | 1.32 | 1.37 |
| 25 | S | 311 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 25 | 9 | 301 | CLA | C4D-ND | -3.60 | 1.32 | 1.37 |
| 33 | 4 | 305 | CHL | OBD-CAD | 3.60 | 1.28 | 1.22 |
| 36 | P | 617 | NEX | C7-C8 | -3.60 | 1.26 | 1.32 |
| 33 | R | 608 | CHL | OBD-CAD | 3.59 | 1.28 | 1.22 |
| 25 | 7 | 301 | CLA | C4D-ND | -3.59 | 1.32 | 1.37 |
| 25 | 9 | 304 | CLA | C4D-ND | -3.59 | 1.32 | 1.37 |
| 33 | T | 605 | CHL | CHD-C4C | 3.59 | 1.47 | 1.39 |
| 33 | U | 306 | CHL | CHD-C4C | 3.59 | 1.47 | 1.39 |
| 25 | A | 827 | CLA | C4D-ND | -3.59 | 1.32 | 1.37 |
| 25 | 5 | 314 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 25 | B | 828 | CLA | C4D-ND | -3.58 | 1.32 | 1.37 |
| 25 | B | 812 | CLA | C4D-ND | -3.58 | 1.32 | 1.37 |
| 25 | B | 821 | CLA | C4D-ND | -3.58 | 1.32 | 1.37 |
| 25 | a | 309 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 33 | S | 306 | CHL | OBD-CAD | 3.58 | 1.28 | 1.22 |
| 33 | 6 | 606 | CHL | C3B-C2B | 3.58 | 1.45 | 1.40 |
| 25 | F | 802 | CLA | C4D-ND | -3.58 | 1.32 | 1.37 |
| 33 | P | 608 | CHL | OBD-CAD | 3.57 | 1.28 | 1.22 |
| 25 | 6 | 616 | CLA | C4D-ND | -3.57 | 1.32 | 1.37 |
| 33 | 4 | 304 | CHL | OBD-CAD | 3.57 | 1.28 | 1.22 |
| 25 | 7 | 311 | CLA | C4D-ND | -3.57 | 1.32 | 1.37 |
| 25 | 8 | 304 | CLA | C4D-ND | -3.57 | 1.32 | 1.37 |
| 25 | 2 | 302 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 25 | 2 | 311 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 9 | 302 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 25 | 1 | 607 | CLA | C4D-ND | -3.56 | 1.32 | 1.37 |
| 25 | H | 201 | CLA | C4D-ND | -3.56 | 1.32 | 1.37 |
| 33 | 4 | 306 | CHL | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 25 | 7 | 312 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 25 | 1 | 602 | CLA | C4D-ND | -3.56 | 1.32 | 1.37 |
| 25 | a | 310 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 33 | S | 308 | CHL | CHD-C4C | 3.55 | 1.47 | 1.39 |
| 25 | A | 828 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 33 | Q | 607 | CHL | OBD-CAD | 3.55 | 1.28 | 1.22 |
| 36 | U | 301 | NEX | C7-C8 | -3.55 | 1.26 | 1.32 |
| 25 | 2 | 311 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 25 | 8 | 306 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 25 | A | 815 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 25 | B | 801 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 25 | B | 803 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 33 | 5 | 317 | CHL | OBD-CAD | 3.55 | 1.28 | 1.22 |
| 25 | A | 811 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 25 | 7 | 303 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 25 | 5 | 304 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 25 | A | 837 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 25 | 7 | 309 | CLA | C4D-ND | -3.55 | 1.32 | 1.37 |
| 25 | A | 824 | CLA | C4D-ND | -3.54 | 1.32 | 1.37 |
| 25 | B | 834 | CLA | C4D-ND | -3.54 | 1.32 | 1.37 |
| 25 | B | 830 | CLA | C4D-ND | -3.54 | 1.32 | 1.37 |
| 25 | T | 608 | CLA | C1D-ND | 3.54 | 1.42 | 1.37 |
| 25 | 4 | 313 | CLA | C1D-ND | 3.54 | 1.42 | 1.37 |
| 33 | T | 605 | CHL | OBD-CAD | 3.54 | 1.28 | 1.22 |
| 25 | 2 | 313 | CLA | C4D-ND | -3.54 | 1.32 | 1.37 |
| 25 | B | 820 | CLA | C4D-ND | -3.54 | 1.32 | 1.37 |
| 33 | S | 309 | CHL | CHD-C4C | 3.54 | 1.47 | 1.39 |
| 25 | B | 807 | CLA | C4D-ND | -3.54 | 1.32 | 1.37 |
| 25 | S | 315 | CLA | C1D-ND | 3.54 | 1.42 | 1.37 |
| 25 | A | 834 | CLA | C4D-ND | -3.53 | 1.32 | 1.37 |
| 25 | a | 301 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 33 | P | 622 | CHL | C3D-C2D | 3.53 | 1.48 | 1.39 |
| 33 | P | 605 | CHL | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 36 | U | 316 | NEX | C7-C8 | -3.53 | 1.26 | 1.32 |
| 25 | 3 | 302 | CLA | C4D-ND | -3.53 | 1.32 | 1.37 |
| 25 | 6 | 604 | CLA | C4D-ND | -3.53 | 1.32 | 1.37 |
| 33 | 5 | 308 | CHL | C1D-ND | -3.52 | 1.33 | 1.37 |
| 33 | T | 601 | CHL | C3D-C2D | 3.52 | 1.48 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 9 | 306 | CHL | OBD-CAD | 3.52 | 1.28 | 1.22 |
| 33 | 6 | 617 | CHL | OBD-CAD | 3.52 | 1.28 | 1.22 |
| 25 | 6 | 613 | CLA | C1D-ND | 3.52 | 1.42 | 1.37 |
| 25 | 5 | 304 | CLA | C4D-ND | -3.52 | 1.32 | 1.37 |
| 33 | R | 609 | CHL | O2D-CGD | 3.52 | 1.41 | 1.33 |
| 33 | 9 | 307 | CHL | CHD-C4C | 3.52 | 1.47 | 1.39 |
| 33 | Q | 601 | CHL | C3D-C2D | 3.52 | 1.48 | 1.39 |
| 25 | B | 814 | CLA | C4D-ND | -3.51 | 1.32 | 1.37 |
| 25 | 2 | 309 | CLA | C4D-ND | -3.51 | 1.32 | 1.37 |
| 33 | P | 601 | CHL | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 33 | S | 310 | CHL | OBD-CAD | 3.51 | 1.28 | 1.22 |
| 25 | B | 831 | CLA | C4D-ND | -3.50 | 1.32 | 1.37 |
| 25 | A | 812 | CLA | C4D-ND | -3.50 | 1.32 | 1.37 |
| 36 | T | 616 | NEX | C7-C8 | -3.50 | 1.26 | 1.32 |
| 25 | S | 303 | CLA | C4D-ND | -3.50 | 1.32 | 1.37 |
| 25 | 2 | 304 | CLA | C4D-ND | -3.50 | 1.32 | 1.37 |
| 33 | P | 609 | CHL | O2D-CGD | 3.50 | 1.41 | 1.33 |
| 25 | Q | 618 | CLA | C4D-ND | -3.50 | 1.32 | 1.37 |
| 25 | a | 311 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |
| 33 | R | 601 | CHL | C3D-C2D | 3.49 | 1.48 | 1.39 |
| 25 | S | 301 | CLA | C1D-ND | 3.49 | 1.42 | 1.37 |
| 25 | 5 | 319 | CLA | C1D-ND | 3.49 | 1.42 | 1.37 |
| 33 | 8 | 307 | CHL | CHD-C4C | 3.49 | 1.47 | 1.39 |
| 25 | L | 209 | CLA | C4D-ND | -3.49 | 1.32 | 1.37 |
| 25 | 6 | 615 | CLA | C4D-ND | -3.49 | 1.32 | 1.37 |
| 33 | P | 606 | CHL | OBD-CAD | 3.48 | 1.28 | 1.22 |
| 33 | Q | 608 | CHL | O2D-CGD | 3.48 | 1.41 | 1.33 |
| 25 | 6 | 623 | CLA | C1D-ND | 3.48 | 1.42 | 1.37 |
| 25 | 3 | 304 | CLA | C4D-ND | -3.48 | 1.32 | 1.37 |
| 25 | B | 849 | CLA | C4D-ND | -3.48 | 1.32 | 1.37 |
| 25 | 8 | 312 | CLA | C4D-ND | -3.48 | 1.32 | 1.37 |
| 25 | A | 821 | CLA | C4D-ND | -3.48 | 1.32 | 1.37 |
| 25 | 4 | 310 | CLA | C1D-ND | 3.47 | 1.42 | 1.37 |
| 33 | U | 309 | CHL | C3D-C2D | 3.47 | 1.48 | 1.39 |
| 25 | 8 | 308 | CLA | C4D-ND | -3.47 | 1.32 | 1.37 |
| 25 | P | 611 | CLA | C1D-ND | 3.47 | 1.42 | 1.37 |
| 33 | a | 305 | CHL | OBD-CAD | 3.47 | 1.28 | 1.22 |
| 25 | 6 | 614 | CLA | C4D-ND | -3.47 | 1.32 | 1.37 |
| 25 | K | 203 | CLA | C4D-ND | -3.47 | 1.32 | 1.37 |
| 33 | P | 607 | CHL | CHD-C4C | 3.47 | 1.47 | 1.39 |
| 25 | 1 | 613 | CLA | C4D-ND | -3.47 | 1.32 | 1.37 |
| 25 | P | 611 | CLA | C1C-NC | -3.46 | 1.32 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 3 | 306 | CHL | C3B-C2B | 3.46 | 1.45 | 1.40 |
| 25 | G | 202 | CLA | C1D-ND | 3.46 | 1.42 | 1.37 |
| 25 | O | 203 | CLA | C1D-ND | 3.46 | 1.42 | 1.37 |
| 25 | 7 | 312 | CLA | C4D-ND | -3.46 | 1.32 | 1.37 |
| 25 | 4 | 303 | CLA | C4D-ND | -3.46 | 1.32 | 1.37 |
| 33 | R | 606 | CHL | OBD-CAD | 3.46 | 1.28 | 1.22 |
| 25 | A | 853 | CLA | C4D-ND | -3.46 | 1.32 | 1.37 |
| 25 | J | 105 | CLA | C4D-ND | -3.45 | 1.32 | 1.37 |
| 25 | 8 | 313 | CLA | C4D-ND | -3.45 | 1.32 | 1.37 |
| 25 | P | 603 | CLA | C1D-ND | 3.45 | 1.42 | 1.37 |
| 25 | 2 | 314 | CLA | C4D-ND | -3.45 | 1.32 | 1.37 |
| 25 | 2 | 307 | CLA | C4D-ND | -3.45 | 1.33 | 1.37 |
| 25 | 1 | 610 | CLA | C4D-ND | -3.45 | 1.33 | 1.37 |
| 25 | a | 313 | CLA | C1D-ND | 3.45 | 1.42 | 1.37 |
| 33 | 4 | 306 | CHL | C1D-ND | -3.45 | 1.33 | 1.37 |
| 33 | 4 | 322 | CHL | C1D-ND | -3.45 | 1.33 | 1.37 |
| 25 | 6 | 609 | CLA | C4D-ND | -3.45 | 1.33 | 1.37 |
| 25 | B | 826 | CLA | C3B-C2B | -3.44 | 1.35 | 1.40 |
| 25 | 6 | 612 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 25 | 9 | 311 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 25 | A | 830 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 33 | P | 619 | CHL | CHD-C4C | 3.44 | 1.47 | 1.39 |
| 25 | L | 202 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 25 | 5 | 324 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 25 | A | 808 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 25 | 3 | 310 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 25 | 8 | 315 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 25 | 2 | 314 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 25 | 1 | 614 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 25 | 4 | 311 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 25 | 4 | 308 | CLA | C4D-ND | -3.44 | 1.33 | 1.37 |
| 33 | R | 607 | CHL | CHD-C4C | 3.43 | 1.47 | 1.39 |
| 25 | 6 | 611 | CLA | C1D-ND | 3.43 | 1.42 | 1.37 |
| 33 | T | 607 | CHL | OBD-CAD | 3.43 | 1.28 | 1.22 |
| 33 | 4 | 322 | CHL | OBD-CAD | 3.43 | 1.28 | 1.22 |
| 25 | A | 831 | CLA | C4D-ND | -3.43 | 1.33 | 1.37 |
| 25 | B | 830 | CLA | C1D-ND | 3.43 | 1.42 | 1.37 |
| 25 | B | 806 | CLA | C4D-ND | -3.43 | 1.33 | 1.37 |
| 25 | 3 | 312 | CLA | C4D-ND | -3.43 | 1.33 | 1.37 |
| 25 | 5 | 311 | CLA | C4D-ND | -3.42 | 1.33 | 1.37 |
| 25 | H | 202 | CLA | C4D-ND | -3.42 | 1.33 | 1.37 |
| 25 | 3 | 305 | CLA | C4D-ND | -3.42 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 9 | 309 | CLA | C4D-ND | -3.42 | 1.33 | 1.37 |
| 25 | 3 | 311 | CLA | C4D-ND | -3.42 | 1.33 | 1.37 |
| 25 | 8 | 309 | CLA | C4D-ND | -3.42 | 1.33 | 1.37 |
| 33 | S | 306 | CHL | C3D-C2D | 3.42 | 1.48 | 1.39 |
| 25 | a | 303 | CLA | O2A-CGA | 3.42 | 1.43 | 1.33 |
| 25 | 4 | 302 | CLA | C1D-ND | 3.42 | 1.42 | 1.37 |
| 25 | a | 306 | CLA | C1D-ND | 3.42 | 1.42 | 1.37 |
| 25 | K | 201 | CLA | C4D-ND | -3.42 | 1.33 | 1.37 |
| 25 | A | 817 | CLA | C4D-ND | -3.41 | 1.33 | 1.37 |
| 25 | B | 832 | CLA | C4D-ND | -3.41 | 1.33 | 1.37 |
| 25 | K | 202 | CLA | C1D-ND | 3.41 | 1.42 | 1.37 |
| 25 | 6 | 611 | CLA | C4D-ND | -3.41 | 1.33 | 1.37 |
| 25 | 9 | 310 | CLA | C1D-ND | 3.41 | 1.42 | 1.37 |
| 25 | 6 | 610 | CLA | C4D-ND | -3.40 | 1.33 | 1.37 |
| 25 | 2 | 310 | CLA | C4D-ND | -3.40 | 1.33 | 1.37 |
| 25 | a | 306 | CLA | C4D-ND | -3.40 | 1.33 | 1.37 |
| 25 | 5 | 310 | CLA | C4D-ND | -3.40 | 1.33 | 1.37 |
| 25 | 9 | 311 | CLA | C4D-ND | -3.40 | 1.33 | 1.37 |
| 25 | 2 | 305 | CLA | C1D-ND | 3.40 | 1.42 | 1.37 |
| 25 | A | 836 | CLA | C4D-ND | -3.40 | 1.33 | 1.37 |
| 25 | 9 | 308 | CLA | C1D-ND | 3.40 | 1.42 | 1.37 |
| 25 | A | 810 | CLA | C4D-ND | -3.39 | 1.33 | 1.37 |
| 25 | 2 | 303 | CLA | C4D-ND | -3.39 | 1.33 | 1.37 |
| 25 | 9 | 309 | CLA | C1D-ND | 3.39 | 1.42 | 1.37 |
| 25 | 3 | 312 | CLA | C1D-ND | 3.39 | 1.41 | 1.37 |
| 25 | 6 | 615 | CLA | C1D-ND | 3.39 | 1.41 | 1.37 |
| 25 | 6 | 604 | CLA | C1D-ND | 3.39 | 1.41 | 1.37 |
| 25 | 6 | 616 | CLA | C1D-ND | 3.38 | 1.41 | 1.37 |
| 33 | 6 | 608 | CHL | C1D-ND | -3.38 | 1.33 | 1.37 |
| 25 | 5 | 312 | CLA | C1D-ND | 3.38 | 1.41 | 1.37 |
| 25 | 5 | 315 | CLA | C1D-ND | 3.38 | 1.41 | 1.37 |
| 33 | R | 606 | CHL | C3D-C2D | 3.38 | 1.48 | 1.39 |
| 25 | 4 | 307 | CLA | C4D-ND | -3.38 | 1.33 | 1.37 |
| 25 | 5 | 314 | CLA | C4D-ND | -3.38 | 1.33 | 1.37 |
| 33 | 5 | 317 | CHL | CHD-C4C | 3.38 | 1.46 | 1.39 |
| 25 | 1 | 604 | CLA | C4D-ND | -3.38 | 1.33 | 1.37 |
| 25 | 8 | 302 | CLA | C4D-ND | -3.38 | 1.33 | 1.37 |
| 25 | 9 | 305 | CLA | C1D-ND | 3.37 | 1.41 | 1.37 |
| 25 | 5 | 312 | CLA | C4D-ND | -3.37 | 1.33 | 1.37 |
| 33 | U | 308 | CHL | C3D-C2D | 3.37 | 1.48 | 1.39 |
| 25 | B | 816 | CLA | C4D-ND | -3.37 | 1.33 | 1.37 |
| 33 | S | 302 | CHL | CHD-C4C | 3.37 | 1.46 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 4 | 307 | CLA | C1D-ND | 3.37 | 1.41 | 1.37 |
| 25 | 7 | 307 | CLA | C4D-ND | -3.37 | 1.33 | 1.37 |
| 25 | 8 | 314 | CLA | C4D-ND | -3.37 | 1.33 | 1.37 |
| 25 | 5 | 302 | CLA | C1D-ND | 3.37 | 1.41 | 1.37 |
| 25 | a | 307 | CLA | C1D-ND | 3.36 | 1.41 | 1.37 |
| 25 | O | 202 | CLA | C4D-ND | -3.36 | 1.33 | 1.37 |
| 25 | 2 | 308 | CLA | C4D-ND | -3.36 | 1.33 | 1.37 |
| 25 | 6 | 605 | CLA | C4D-ND | -3.36 | 1.33 | 1.37 |
| 25 | 2 | 305 | CLA | C4D-ND | -3.36 | 1.33 | 1.37 |
| 25 | J | 105 | CLA | C1D-ND | 3.36 | 1.41 | 1.37 |
| 25 | B | 813 | CLA | C4D-ND | -3.36 | 1.33 | 1.37 |
| 25 | 6 | 601 | CLA | C1D-ND | 3.36 | 1.41 | 1.37 |
| 33 | 6 | 606 | CHL | OBD-CAD | 3.35 | 1.28 | 1.22 |
| 25 | B | 819 | CLA | C4D-ND | -3.35 | 1.33 | 1.37 |
| 25 | 8 | 311 | CLA | C4D-ND | -3.35 | 1.33 | 1.37 |
| 33 | 1 | 606 | CHL | OBD-CAD | 3.35 | 1.28 | 1.22 |
| 33 | 4 | 305 | CHL | C3D-C2D | 3.35 | 1.48 | 1.39 |
| 25 | 6 | 603 | CLA | C1D-ND | 3.35 | 1.41 | 1.37 |
| 25 | 2 | 303 | CLA | C1D-ND | 3.35 | 1.41 | 1.37 |
| 25 | 5 | 306 | CLA | C4D-ND | -3.35 | 1.33 | 1.37 |
| 25 | J | 103 | CLA | C4D-ND | -3.34 | 1.33 | 1.37 |
| 33 | Q | 608 | CHL | C3B-C2B | -3.34 | 1.35 | 1.40 |
| 25 | 1 | 608 | CLA | C4D-ND | -3.34 | 1.33 | 1.37 |
| 25 | a | 312 | CLA | C4D-ND | -3.34 | 1.33 | 1.37 |
| 33 | P | 609 | CHL | C3B-C2B | -3.34 | 1.35 | 1.40 |
| 25 | H | 203 | CLA | C4D-ND | -3.34 | 1.33 | 1.37 |
| 33 | 7 | 305 | CHL | CHD-C4C | 3.34 | 1.46 | 1.39 |
| 33 | S | 309 | CHL | OBD-CAD | 3.34 | 1.28 | 1.22 |
| 33 | 6 | 607 | CHL | OBD-CAD | 3.33 | 1.28 | 1.22 |
| 25 | K | 203 | CLA | C1D-ND | 3.33 | 1.41 | 1.37 |
| 25 | A | 818 | CLA | C4D-ND | -3.32 | 1.33 | 1.37 |
| 25 | A | 815 | CLA | C4D-ND | -3.32 | 1.33 | 1.37 |
| 33 | T | 606 | CHL | C3D-C2D | 3.32 | 1.48 | 1.39 |
| 25 | H | 202 | CLA | C1D-ND | 3.32 | 1.41 | 1.37 |
| 25 | A | 816 | CLA | C4D-ND | -3.31 | 1.33 | 1.37 |
| 25 | G | 202 | CLA | C4D-ND | -3.31 | 1.33 | 1.37 |
| 25 | 3 | 302 | CLA | C1D-ND | 3.31 | 1.41 | 1.37 |
| 25 | 6 | 612 | CLA | C4D-ND | -3.31 | 1.33 | 1.37 |
| 25 | 2 | 307 | CLA | C1D-ND | 3.31 | 1.41 | 1.37 |
| 33 | S | 310 | CHL | C3D-C2D | 3.31 | 1.48 | 1.39 |
| 33 | Q | 606 | CHL | C3D-C2D | 3.31 | 1.48 | 1.39 |
| 25 | F | 802 | CLA | C1D-ND | 3.31 | 1.41 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 3 | 311 | CLA | C1D-ND | 3.31 | 1.41 | 1.37 |
| 25 | B | 818 | CLA | C4D-ND | -3.31 | 1.33 | 1.37 |
| 33 | 6 | 606 | CHL | CHD-C4C | 3.30 | 1.46 | 1.39 |
| 33 | T | 604 | CHL | C3D-C2D | 3.30 | 1.48 | 1.39 |
| 25 | 6 | 612 | CLA | CHC-C1C | 3.30 | 1.43 | 1.35 |
| 25 | a | 311 | CLA | C4D-ND | -3.30 | 1.33 | 1.37 |
| 33 | S | 307 | CHL | C3D-C2D | 3.30 | 1.48 | 1.39 |
| 25 | K | 202 | CLA | C4D-ND | -3.30 | 1.33 | 1.37 |
| 25 | O | 201 | CLA | C4D-ND | -3.30 | 1.33 | 1.37 |
| 25 | R | 604 | CLA | C1D-ND | 3.30 | 1.41 | 1.37 |
| 33 | 5 | 307 | CHL | CHD-C4C | 3.30 | 1.46 | 1.39 |
| 25 | B | 816 | CLA | C1D-ND | 3.30 | 1.41 | 1.37 |
| 25 | A | 830 | CLA | CMB-C2B | -3.30 | 1.44 | 1.51 |
| 33 | U | 305 | CHL | C3D-C2D | 3.30 | 1.48 | 1.39 |
| 33 | 6 | 608 | CHL | OBD-CAD | 3.30 | 1.28 | 1.22 |
| 25 | 4 | 313 | CLA | C4D-ND | -3.29 | 1.33 | 1.37 |
| 33 | 4 | 306 | CHL | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 33 | 5 | 308 | CHL | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 25 | 1 | 605 | CLA | C4D-ND | -3.29 | 1.33 | 1.37 |
| 33 | 6 | 608 | CHL | CHD-C4C | 3.29 | 1.46 | 1.39 |
| 25 | a | 304 | CLA | C1D-ND | 3.29 | 1.41 | 1.37 |
| 33 | 7 | 305 | CHL | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 25 | B | 827 | CLA | CMB-C2B | -3.29 | 1.44 | 1.51 |
| 33 | T | 607 | CHL | C3D-C2D | 3.29 | 1.48 | 1.39 |
| 25 | a | 309 | CLA | C4D-ND | -3.29 | 1.33 | 1.37 |
| 33 | R | 609 | CHL | C3B-C2B | -3.29 | 1.35 | 1.40 |
| 25 | H | 203 | CLA | C1D-ND | 3.29 | 1.41 | 1.37 |
| 25 | a | 313 | CLA | C4D-ND | -3.29 | 1.33 | 1.37 |
| 25 | 4 | 303 | CLA | C1D-ND | 3.28 | 1.41 | 1.37 |
| 25 | 9 | 308 | CLA | C4D-ND | -3.28 | 1.33 | 1.37 |
| 25 | O | 201 | CLA | C1D-ND | 3.28 | 1.41 | 1.37 |
| 25 | A | 805 | CLA | C3B-C2B | -3.28 | 1.35 | 1.40 |
| 25 | 1 | 603 | CLA | C4D-ND | -3.28 | 1.33 | 1.37 |
| 33 | 1 | 606 | CHL | C1D-ND | -3.28 | 1.33 | 1.37 |
| 33 | Q | 605 | CHL | C3D-C2D | 3.28 | 1.48 | 1.39 |
| 25 | R | 610 | CLA | CHC-C1C | 3.28 | 1.43 | 1.35 |
| 25 | U | 302 | CLA | CHC-C1C | 3.28 | 1.43 | 1.35 |
| 25 | 3 | 309 | CLA | C4D-ND | -3.28 | 1.33 | 1.37 |
| 25 | 3 | 310 | CLA | C1D-ND | 3.28 | 1.41 | 1.37 |
| 25 | G | 201 | CLA | C4D-ND | -3.28 | 1.33 | 1.37 |
| 25 | A | 838 | CLA | C1D-ND | 3.27 | 1.41 | 1.37 |
| 25 | 8 | 306 | CLA | C1D-ND | 3.27 | 1.41 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 6 | 607 | CHL | C1D-ND | -3.27 | 1.33 | 1.37 |
| 33 | 9 | 307 | CHL | OBD-CAD | 3.27 | 1.28 | 1.22 |
| 33 | 4 | 314 | CHL | C3D-C2D | 3.27 | 1.48 | 1.39 |
| 25 | 8 | 312 | CLA | C1D-ND | 3.27 | 1.41 | 1.37 |
| 25 | G | 201 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 25 | J | 103 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 25 | A | 810 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 25 | 1 | 610 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 25 | a | 304 | CLA | C4D-ND | -3.26 | 1.33 | 1.37 |
| 25 | 2 | 313 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 33 | 4 | 304 | CHL | CHD-C4C | 3.26 | 1.46 | 1.39 |
| 25 | A | 808 | CLA | C1D-ND | 3.26 | 1.41 | 1.37 |
| 33 | U | 307 | CHL | C3D-C2D | 3.26 | 1.48 | 1.39 |
| 25 | A | 829 | CLA | C3B-C2B | -3.25 | 1.35 | 1.40 |
| 25 | 4 | 310 | CLA | C4D-ND | -3.25 | 1.33 | 1.37 |
| 25 | A | 813 | CLA | C3B-C2B | -3.25 | 1.35 | 1.40 |
| 33 | 4 | 305 | CHL | MG-NA | -3.25 | 1.98 | 2.06 |
| 33 | 9 | 306 | CHL | CHD-C4C | 3.25 | 1.46 | 1.39 |
| 25 | 5 | 316 | CLA | C1D-ND | 3.25 | 1.41 | 1.37 |
| 33 | U | 306 | CHL | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 25 | 1 | 613 | CLA | C1D-ND | 3.25 | 1.41 | 1.37 |
| 25 | Q | 602 | CLA | CHC-C1C | 3.25 | 1.43 | 1.35 |
| 25 | U | 310 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 25 | R | 602 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 25 | A | 812 | CLA | C1D-ND | 3.24 | 1.41 | 1.37 |
| 25 | L | 209 | CLA | C1D-ND | 3.24 | 1.41 | 1.37 |
| 25 | R | 603 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 33 | 4 | 322 | CHL | CHD-C4C | 3.23 | 1.46 | 1.39 |
| 25 | T | 609 | CLA | CHC-C1C | 3.23 | 1.43 | 1.35 |
| 25 | B | 826 | CLA | CMB-C2B | -3.23 | 1.44 | 1.51 |
| 25 | 1 | 611 | CLA | C1D-ND | 3.23 | 1.41 | 1.37 |
| 25 | 8 | 302 | CLA | C1D-ND | 3.23 | 1.41 | 1.37 |
| 25 | 9 | 310 | CLA | CHC-C1C | 3.23 | 1.43 | 1.35 |
| 33 | 5 | 307 | CHL | OBD-CAD | 3.23 | 1.28 | 1.22 |
| 25 | 4 | 309 | CLA | C4D-ND | -3.23 | 1.33 | 1.37 |
| 25 | B | 832 | CLA | C1D-ND | 3.23 | 1.41 | 1.37 |
| 25 | B | 811 | CLA | C3B-C2B | -3.23 | 1.35 | 1.40 |
| 33 | T | 605 | CHL | C3D-C2D | 3.22 | 1.47 | 1.39 |
| 25 | 3 | 309 | CLA | C1D-ND | 3.22 | 1.41 | 1.37 |
| 33 | 3 | 306 | CHL | OBD-CAD | 3.22 | 1.28 | 1.22 |
| 25 | a | 307 | CLA | C4D-ND | -3.22 | 1.33 | 1.37 |
| 25 | B | 834 | CLA | C1D-ND | 3.22 | 1.41 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 8 | 307 | CHL | OBD-CAD | 3.22 | 1.28 | 1.22 |
| 25 | 8 | 315 | CLA | C1D-ND | 3.22 | 1.41 | 1.37 |
| 25 | R | 604 | CLA | CHC-C1C | 3.22 | 1.43 | 1.35 |
| 33 | 9 | 307 | CHL | C3D-C2D | 3.22 | 1.47 | 1.39 |
| 33 | 9 | 306 | CHL | C1D-ND | -3.22 | 1.33 | 1.37 |
| 33 | a | 305 | CHL | C3D-C2D | 3.22 | 1.47 | 1.39 |
| 25 | 2 | 306 | CLA | C4D-ND | -3.22 | 1.33 | 1.37 |
| 25 | P | 612 | CLA | O1D-CGD | 3.22 | 1.29 | 1.21 |
| 25 | Q | 612 | CLA | CHC-C1C | 3.21 | 1.43 | 1.35 |
| 25 | 4 | 312 | CLA | C4D-ND | -3.21 | 1.33 | 1.37 |
| 33 | P | 605 | CHL | C3D-C2D | 3.21 | 1.47 | 1.39 |
| 33 | 1 | 601 | CHL | OBD-CAD | 3.21 | 1.28 | 1.22 |
| 33 | 5 | 308 | CHL | CHD-C4C | 3.21 | 1.46 | 1.39 |
| 25 | 4 | 312 | CLA | C1D-ND | 3.21 | 1.41 | 1.37 |
| 25 | 1 | 605 | CLA | C1D-ND | 3.21 | 1.41 | 1.37 |
| 25 | O | 202 | CLA | C1D-ND | 3.21 | 1.41 | 1.37 |
| 25 | A | 840 | CLA | C1D-ND | 3.21 | 1.41 | 1.37 |
| 25 | 3 | 305 | CLA | C1D-ND | 3.20 | 1.41 | 1.37 |
| 25 | P | 611 | CLA | OBD-CAD | 3.20 | 1.28 | 1.22 |
| 25 | R | 612 | CLA | O1D-CGD | 3.20 | 1.29 | 1.21 |
| 25 | O | 203 | CLA | C4D-ND | -3.20 | 1.33 | 1.37 |
| 25 | S | 314 | CLA | C4D-ND | -3.20 | 1.33 | 1.37 |
| 25 | 1 | 602 | CLA | C1D-ND | 3.20 | 1.41 | 1.37 |
| 25 | A | 825 | CLA | C3B-C2B | -3.20 | 1.35 | 1.40 |
| 25 | A | 819 | CLA | CMB-C2B | -3.19 | 1.45 | 1.51 |
| 25 | 4 | 311 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 25 | 5 | 311 | CLA | C1D-ND | 3.19 | 1.41 | 1.37 |
| 33 | 4 | 304 | CHL | C1D-ND | -3.19 | 1.33 | 1.37 |
| 25 | Q | 618 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 25 | 8 | 311 | CLA | C1D-ND | 3.19 | 1.41 | 1.37 |
| 25 | 1 | 614 | CLA | C1D-ND | 3.19 | 1.41 | 1.37 |
| 33 | 9 | 307 | CHL | C1D-ND | -3.19 | 1.33 | 1.37 |
| 25 | P | 610 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 25 | H | 201 | CLA | C1D-ND | 3.19 | 1.41 | 1.37 |
| 33 | S | 321 | CHL | C3D-C2D | 3.18 | 1.47 | 1.39 |
| 33 | S | 302 | CHL | OBD-CAD | 3.18 | 1.28 | 1.22 |
| 25 | 8 | 308 | CLA | C1D-ND | 3.18 | 1.41 | 1.37 |
| 25 | A | 812 | CLA | CMB-C2B | -3.18 | 1.45 | 1.51 |
| 33 | S | 302 | CHL | C3D-C2D | 3.18 | 1.47 | 1.39 |
| 25 | 3 | 301 | CLA | C1D-ND | 3.18 | 1.41 | 1.37 |
| 33 | P | 622 | CHL | MG-NA | -3.18 | 1.98 | 2.06 |
| 25 | B | 817 | CLA | C1D-ND | 3.18 | 1.41 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 836 | CLA | CMB-C2B | -3.18 | 1.45 | 1.51 |
| 25 | Q | 613 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 25 | Q | 609 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 25 | G | 201 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 33 | 6 | 607 | CHL | CHD-C4C | 3.17 | 1.46 | 1.39 |
| 25 | A | 816 | CLA | C1D-ND | 3.17 | 1.41 | 1.37 |
| 25 | 7 | 308 | CLA | C1D-ND | 3.17 | 1.41 | 1.37 |
| 25 | P | 611 | CLA | C4B-NB | -3.17 | 1.32 | 1.35 |
| 25 | 7 | 308 | CLA | C3B-C2B | -3.17 | 1.36 | 1.40 |
| 33 | 1 | 601 | CHL | CHD-C4C | 3.17 | 1.46 | 1.39 |
| 33 | 1 | 606 | CHL | C3D-C2D | 3.17 | 1.47 | 1.39 |
| 33 | S | 308 | CHL | C3D-C2D | 3.17 | 1.47 | 1.39 |
| 25 | 2 | 313 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 25 | 4 | 308 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 25 | 1 | 603 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 25 | a | 303 | CLA | C1-C2 | 3.16 | 1.58 | 1.49 |
| 25 | 2 | 312 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 25 | H | 205 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 25 | 2 | 309 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 25 | A | 851 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 25 | 6 | 601 | CLA | C4D-ND | -3.16 | 1.33 | 1.37 |
| 25 | B | 801 | CLA | C1D-ND | 3.16 | 1.41 | 1.37 |
| 33 | P | 606 | CHL | C3D-C2D | 3.16 | 1.47 | 1.39 |
| 25 | 5 | 312 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 25 | 4 | 310 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 25 | 5 | 309 | CLA | C3B-C2B | -3.15 | 1.36 | 1.40 |
| 25 | P | 610 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 25 | 9 | 310 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 33 | P | 608 | CHL | C3D-C2D | 3.15 | 1.47 | 1.39 |
| 33 | Q | 607 | CHL | C3D-C2D | 3.15 | 1.47 | 1.39 |
| 25 | S | 303 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 25 | S | 301 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 25 | 2 | 302 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 25 | 4 | 312 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 25 | 2 | 306 | CLA | C1D-ND | 3.15 | 1.41 | 1.37 |
| 25 | T | 611 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 25 | a | 310 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 25 | B | 815 | CLA | CMB-C2B | -3.15 | 1.45 | 1.51 |
| 25 | B | 849 | CLA | C1D-ND | 3.15 | 1.41 | 1.37 |
| 25 | T | 608 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 25 | P | 602 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 33 | 7 | 305 | CHL | C1D-ND | -3.15 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 5 | 307 | CHL | C1D-ND | -3.14 | 1.33 | 1.37 |
| 33 | 3 | 306 | CHL | CHD-C4C | 3.14 | 1.46 | 1.39 |
| 25 | B | 811 | CLA | CMB-C2B | -3.14 | 1.45 | 1.51 |
| 33 | 6 | 617 | CHL | C3D-C2D | 3.14 | 1.47 | 1.39 |
| 33 | R | 608 | CHL | C3D-C2D | 3.14 | 1.47 | 1.39 |
| 25 | Q | 604 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 25 | a | 309 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 33 | 1 | 601 | CHL | C3D-C2D | 3.14 | 1.47 | 1.39 |
| 25 | B | 828 | CLA | C1D-ND | 3.14 | 1.41 | 1.37 |
| 33 | P | 609 | CHL | MG-NA | 3.14 | 2.13 | 2.06 |
| 33 | P | 619 | CHL | C3D-C2D | 3.14 | 1.47 | 1.39 |
| 25 | A | 837 | CLA | C1D-ND | 3.14 | 1.41 | 1.37 |
| 25 | 1 | 609 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 33 | R | 609 | CHL | MG-NA | 3.13 | 2.13 | 2.06 |
| 25 | 7 | 313 | CLA | C1D-ND | 3.13 | 1.41 | 1.37 |
| 25 | 8 | 310 | CLA | C1D-ND | 3.13 | 1.41 | 1.37 |
| 25 | a | 302 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 25 | 4 | 307 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 25 | 1 | 611 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 25 | Q | 603 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 25 | 5 | 313 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 25 | 3 | 314 | CLA | C1D-ND | 3.13 | 1.41 | 1.37 |
| 25 | P | 603 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 25 | 2 | 312 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 25 | 9 | 305 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 25 | B | 810 | CLA | C3B-C2B | -3.13 | 1.36 | 1.40 |
| 25 | Q | 610 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 25 | a | 301 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 25 | 8 | 305 | CLA | C1D-ND | 3.13 | 1.41 | 1.37 |
| 33 | P | 607 | CHL | C3D-C2D | 3.13 | 1.47 | 1.39 |
| 25 | A | 811 | CLA | C1D-ND | 3.13 | 1.41 | 1.37 |
| 25 | 9 | 304 | CLA | C1D-ND | 3.13 | 1.41 | 1.37 |
| 25 | T | 608 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 25 | 7 | 311 | CLA | C1D-ND | 3.12 | 1.41 | 1.37 |
| 25 | T | 602 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 25 | Q | 610 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 25 | A | 805 | CLA | CMB-C2B | -3.12 | 1.45 | 1.51 |
| 33 | R | 607 | CHL | C3D-C2D | 3.12 | 1.47 | 1.39 |
| 25 | 7 | 303 | CLA | C3B-C2B | -3.12 | 1.36 | 1.40 |
| 25 | R | 611 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 25 | A | 817 | CLA | C1D-ND | 3.12 | 1.41 | 1.37 |
| 25 | S | 320 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 7 | 301 | CLA | C1D-ND | 3.12 | 1.41 | 1.37 |
| 25 | A | 830 | CLA | C1D-ND | 3.12 | 1.41 | 1.37 |
| 25 | 1 | 608 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 25 | S | 315 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 25 | 2 | 308 | CLA | C1D-ND | 3.11 | 1.41 | 1.37 |
| 25 | S | 311 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 33 | Q | 608 | CHL | MG-NA | 3.11 | 2.13 | 2.06 |
| 25 | 2 | 310 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 25 | U | 312 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 33 | 4 | 305 | CHL | C1D-ND | -3.11 | 1.34 | 1.37 |
| 25 | 5 | 319 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 25 | A | 831 | CLA | C1D-ND | 3.11 | 1.41 | 1.37 |
| 25 | S | 304 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 25 | a | 301 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 25 | A | 831 | CLA | CMB-C2B | -3.11 | 1.45 | 1.51 |
| 25 | B | 803 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 25 | B | 821 | CLA | C1D-ND | 3.11 | 1.41 | 1.37 |
| 25 | R | 611 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 25 | R | 614 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 33 | 8 | 307 | CHL | C3D-C2D | 3.10 | 1.47 | 1.39 |
| 25 | B | 838 | CLA | C1D-ND | 3.10 | 1.41 | 1.37 |
| 25 | 4 | 302 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 25 | T | 612 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 33 | P | 601 | CHL | MG-NA | -3.10 | 1.98 | 2.06 |
| 25 | B | 820 | CLA | C1D-ND | 3.10 | 1.41 | 1.37 |
| 25 | U | 303 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 25 | A | 814 | CLA | C1D-ND | 3.10 | 1.41 | 1.37 |
| 33 | R | 601 | CHL | MG-NA | -3.10 | 1.98 | 2.06 |
| 25 | B | 831 | CLA | CMB-C2B | -3.10 | 1.45 | 1.51 |
| 25 | B | 814 | CLA | C1D-ND | 3.09 | 1.41 | 1.37 |
| 25 | P | 604 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 33 | 4 | 322 | CHL | C3D-C2D | 3.09 | 1.47 | 1.39 |
| 25 | B | 811 | CLA | C1D-ND | 3.09 | 1.41 | 1.37 |
| 25 | 2 | 304 | CLA | C1D-ND | 3.09 | 1.41 | 1.37 |
| 25 | 9 | 311 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 25 | B | 835 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 25 | A | 835 | CLA | C3B-C2B | -3.09 | 1.36 | 1.40 |
| 25 | B | 830 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 25 | A | 816 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 25 | A | 804 | CLA | C1D-ND | 3.09 | 1.41 | 1.37 |
| 25 | B | 818 | CLA | C1D-ND | 3.09 | 1.41 | 1.37 |
| 25 | S | 305 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | Q | 601 | CHL | MG-NA | -3.08 | 1.98 | 2.06 |
| 25 | 3 | 304 | CLA | C1D-ND | 3.08 | 1.41 | 1.37 |
| 33 | 4 | 314 | CHL | C1D-ND | -3.08 | 1.34 | 1.37 |
| 25 | 2 | 309 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 33 | 5 | 317 | CHL | C1D-ND | -3.08 | 1.34 | 1.37 |
| 25 | 8 | 304 | CLA | C1D-ND | 3.08 | 1.41 | 1.37 |
| 25 | 9 | 302 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 25 | A | 836 | CLA | C1D-ND | 3.07 | 1.41 | 1.37 |
| 25 | a | 303 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 33 | 4 | 304 | CHL | C3D-C2D | 3.07 | 1.47 | 1.39 |
| 25 | B | 815 | CLA | C3B-C2B | -3.07 | 1.36 | 1.40 |
| 25 | 7 | 301 | CLA | CMB-C2B | -3.07 | 1.45 | 1.51 |
| 25 | Q | 613 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 25 | 9 | 303 | CLA | C1D-ND | 3.07 | 1.41 | 1.37 |
| 25 | R | 604 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 33 | 5 | 307 | CHL | MG-NA | -3.06 | 1.99 | 2.06 |
| 25 | S | 313 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | Q | 611 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | 7 | 303 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | A | 853 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | a | 302 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | 5 | 309 | CLA | CMB-C2B | -3.06 | 1.45 | 1.51 |
| 33 | R | 605 | CHL | C3D-C2D | 3.06 | 1.47 | 1.39 |
| 25 | 7 | 306 | CLA | C1D-ND | 3.06 | 1.41 | 1.37 |
| 25 | B | 827 | CLA | C3B-C2B | -3.06 | 1.36 | 1.40 |
| 25 | 7 | 308 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | A | 811 | CLA | CMB-C2B | -3.06 | 1.45 | 1.51 |
| 25 | 7 | 302 | CLA | C1D-ND | 3.06 | 1.41 | 1.37 |
| 25 | A | 820 | CLA | CMB-C2B | -3.06 | 1.45 | 1.51 |
| 25 | 8 | 306 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | A | 853 | CLA | C1D-ND | 3.06 | 1.41 | 1.37 |
| 25 | S | 315 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | 6 | 613 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 25 | 8 | 309 | CLA | C1D-ND | 3.05 | 1.41 | 1.37 |
| 33 | P | 622 | CHL | C1D-ND | -3.05 | 1.34 | 1.37 |
| 25 | 4 | 302 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 25 | A | 831 | CLA | C3B-C2B | -3.05 | 1.36 | 1.40 |
| 28 | B | 845 | BCR | C1-C6 | -3.05 | 1.49 | 1.53 |
| 25 | B | 816 | CLA | C3B-C2B | -3.05 | 1.36 | 1.40 |
| 25 | B | 803 | CLA | C1D-ND | 3.05 | 1.41 | 1.37 |
| 25 | A | 805 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 25 | 6 | 614 | CLA | C1D-ND | 3.05 | 1.41 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 1 | 605 | CLA | CMB-C2B | -3.05 | 1.45 | 1.51 |
| 25 | 4 | 301 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 25 | P | 603 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |
| 25 | B | 804 | CLA | CMB-C2B | -3.05 | 1.45 | 1.51 |
| 25 | A | 827 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 25 | B | 834 | CLA | CMB-C2B | -3.04 | 1.45 | 1.51 |
| 25 | A | 810 | CLA | C3B-C2B | -3.04 | 1.36 | 1.40 |
| 25 | 1 | 608 | CLA | C1D-ND | 3.04 | 1.41 | 1.37 |
| 25 | T | 603 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 25 | A | 822 | CLA | CMB-C2B | -3.04 | 1.45 | 1.51 |
| 25 | B | 813 | CLA | C3B-C2B | -3.04 | 1.36 | 1.40 |
| 33 | T | 601 | CHL | MG-NA | -3.04 | 1.99 | 2.06 |
| 25 | P | 613 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 25 | a | 307 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 25 | 8 | 313 | CLA | C1D-ND | 3.03 | 1.41 | 1.37 |
| 25 | O | 202 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 25 | R | 613 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 25 | B | 816 | CLA | CMB-C2B | -3.03 | 1.45 | 1.51 |
| 25 | a | 308 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 25 | 3 | 320 | CLA | C3B-C2B | -3.03 | 1.36 | 1.40 |
| 33 | U | 309 | CHL | MG-NA | -3.03 | 1.99 | 2.06 |
| 25 | 7 | 310 | CLA | C1D-ND | 3.03 | 1.41 | 1.37 |
| 25 | S | 312 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 25 | 5 | 302 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 25 | a | 303 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 33 | 4 | 306 | CHL | C3D-C2D | 3.03 | 1.47 | 1.39 |
| 25 | 7 | 309 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 25 | A | 828 | CLA | C1D-ND | 3.02 | 1.41 | 1.37 |
| 25 | U | 311 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 25 | A | 803 | CLA | C1D-ND | 3.02 | 1.41 | 1.37 |
| 25 | S | 304 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 25 | B | 821 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 25 | A | 807 | CLA | C1D-ND | 3.02 | 1.41 | 1.37 |
| 25 | a | 306 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 33 | 5 | 317 | CHL | C3D-C2D | 3.02 | 1.47 | 1.39 |
| 25 | S | 314 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 25 | B | 835 | CLA | C1D-ND | 3.02 | 1.41 | 1.37 |
| 25 | K | 205 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 25 | 7 | 304 | CLA | CMB-C2B | -3.01 | 1.45 | 1.51 |
| 25 | 6 | 615 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 25 | 6 | 623 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 25 | A | 825 | CLA | C1D-ND | 3.01 | 1.41 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 808 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 33 | R | 607 | CHL | C1D-ND | -3.01 | 1.34 | 1.37 |
| 25 | S | 311 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 25 | K | 203 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 25 | B | 835 | CLA | C3B-C2B | -3.01 | 1.36 | 1.40 |
| 25 | 1 | 604 | CLA | C3B-C2B | -3.01 | 1.36 | 1.40 |
| 25 | G | 202 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 25 | A | 801 | CLA | C1D-ND | 3.01 | 1.41 | 1.37 |
| 33 | P | 619 | CHL | C1D-ND | -3.01 | 1.34 | 1.37 |
| 25 | A | 809 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 25 | U | 304 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 25 | B | 828 | CLA | CMB-C2B | -3.01 | 1.45 | 1.51 |
| 25 | 4 | 303 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 25 | P | 604 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 25 | A | 834 | CLA | C1D-ND | 3.00 | 1.41 | 1.37 |
| 25 | K | 204 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 25 | U | 313 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 25 | 5 | 324 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 25 | 1 | 611 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 25 | B | 810 | CLA | CMB-C2B | -3.00 | 1.45 | 1.51 |
| 25 | 5 | 309 | CLA | C1D-ND | 3.00 | 1.41 | 1.37 |
| 25 | R | 614 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 25 | 3 | 302 | CLA | CHC-C1C | 3.00 | 1.42 | 1.35 |
| 25 | 8 | 303 | CLA | C1D-ND | 3.00 | 1.41 | 1.37 |
| 33 | 8 | 307 | CHL | C1D-ND | -3.00 | 1.34 | 1.37 |
| 25 | A | 813 | CLA | CMB-C2B | -3.00 | 1.45 | 1.51 |
| 33 | R | 609 | CHL | O2A-CGA | 3.00 | 1.42 | 1.33 |
| 28 | 5 | 323 | BCR | C30-C25 | -2.99 | 1.49 | 1.53 |
| 25 | B | 838 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | O | 201 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | P | 613 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 33 | Q | 608 | CHL | O2A-CGA | 2.99 | 1.42 | 1.33 |
| 25 | A | 806 | CLA | CMB-C2B | -2.99 | 1.45 | 1.51 |
| 33 | P | 607 | CHL | C1D-ND | -2.99 | 1.34 | 1.37 |
| 25 | 1 | 604 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | 7 | 312 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | a | 304 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | F | 802 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | A | 802 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | Q | 604 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 25 | U | 304 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | R | 612 | CLA | CMC-C2C | 2.99 | 1.57 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | S | 305 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 33 | 6 | 606 | CHL | C3D-C2D | 2.99 | 1.47 | 1.39 |
| 25 | 3 | 309 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 25 | 8 | 309 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 25 | A | 826 | CLA | C1D-ND | 2.98 | 1.41 | 1.37 |
| 25 | 5 | 319 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 33 | P | 609 | CHL | O2A-CGA | 2.98 | 1.42 | 1.33 |
| 25 | a | 312 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 33 | S | 309 | CHL | C3D-C2D | 2.98 | 1.47 | 1.39 |
| 33 | T | 601 | CHL | C1D-ND | -2.98 | 1.34 | 1.37 |
| 25 | 6 | 603 | CLA | CMB-C2B | -2.98 | 1.45 | 1.51 |
| 25 | 8 | 314 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 25 | B | 804 | CLA | C3B-C2B | -2.98 | 1.36 | 1.40 |
| 25 | T | 603 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 25 | K | 202 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 25 | A | 829 | CLA | CMB-C2B | -2.97 | 1.45 | 1.51 |
| 25 | 8 | 303 | CLA | CMB-C2B | -2.97 | 1.45 | 1.51 |
| 25 | L | 202 | CLA | C1D-ND | 2.97 | 1.41 | 1.37 |
| 25 | B | 815 | CLA | C1D-ND | 2.97 | 1.41 | 1.37 |
| 25 | B | 831 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 33 | 6 | 607 | CHL | C3D-C2D | 2.97 | 1.47 | 1.39 |
| 25 | 7 | 304 | CLA | C1D-ND | 2.97 | 1.41 | 1.37 |
| 25 | L | 202 | CLA | CMB-C2B | -2.97 | 1.45 | 1.51 |
| 25 | 1 | 613 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 25 | 9 | 304 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 25 | 6 | 603 | CLA | C3B-C2B | -2.97 | 1.36 | 1.40 |
| 25 | 8 | 315 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | A | 840 | CLA | C3B-C2B | -2.96 | 1.36 | 1.40 |
| 25 | 1 | 603 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | B | 812 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | 1 | 605 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | P | 612 | CLA | CMC-C2C | 2.96 | 1.57 | 1.50 |
| 25 | 1 | 607 | CLA | C1D-ND | 2.96 | 1.41 | 1.37 |
| 25 | 2 | 312 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | 5 | 306 | CLA | C1D-ND | 2.96 | 1.41 | 1.37 |
| 25 | 6 | 610 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | B | 834 | CLA | C3B-C2B | -2.96 | 1.36 | 1.40 |
| 25 | A | 837 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | 7 | 306 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | B | 813 | CLA | C1D-ND | 2.96 | 1.41 | 1.37 |
| 25 | 2 | 305 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 25 | 1 | 610 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | S | 303 | CLA | C1D-ND | 2.96 | 1.41 | 1.37 |
| 25 | B | 807 | CLA | C1D-ND | 2.96 | 1.41 | 1.37 |
| 25 | A | 808 | CLA | CMB-C2B | -2.95 | 1.45 | 1.51 |
| 25 | 5 | 324 | CLA | C3B-C2B | -2.95 | 1.36 | 1.40 |
| 25 | S | 313 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 25 | 3 | 312 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 25 | A | 827 | CLA | CMB-C2B | -2.95 | 1.45 | 1.51 |
| 25 | B | 824 | CLA | CMB-C2B | -2.95 | 1.45 | 1.51 |
| 25 | A | 825 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 25 | A | 821 | CLA | CMB-C2B | -2.95 | 1.45 | 1.51 |
| 25 | A | 824 | CLA | C1D-ND | 2.95 | 1.41 | 1.37 |
| 25 | A | 839 | CLA | C1D-ND | 2.95 | 1.41 | 1.37 |
| 25 | 5 | 306 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 25 | 8 | 310 | CLA | CMB-C2B | -2.95 | 1.45 | 1.51 |
| 25 | T | 610 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 25 | A | 818 | CLA | C1D-ND | 2.95 | 1.41 | 1.37 |
| 25 | 1 | 604 | CLA | CMD-C2D | -2.95 | 1.44 | 1.50 |
| 25 | A | 824 | CLA | CMB-C2B | -2.95 | 1.45 | 1.51 |
| 25 | 5 | 311 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 25 | T | 610 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 25 | a | 310 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 25 | 7 | 304 | CLA | C3B-C2B | -2.95 | 1.36 | 1.40 |
| 25 | A | 821 | CLA | C1D-ND | 2.95 | 1.41 | 1.37 |
| 33 | 6 | 606 | CHL | C1D-ND | -2.95 | 1.34 | 1.37 |
| 25 | L | 201 | CLA | CMB-C2B | -2.95 | 1.45 | 1.51 |
| 25 | 6 | 620 | CLA | C1D-ND | 2.94 | 1.41 | 1.37 |
| 25 | T | 612 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 25 | 3 | 303 | CLA | C1D-ND | 2.94 | 1.41 | 1.37 |
| 25 | B | 801 | CLA | CMB-C2B | -2.94 | 1.45 | 1.51 |
| 31 | B | 850 | SQD | C6-S | -2.94 | 1.66 | 1.77 |
| 25 | B | 832 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 25 | A | 813 | CLA | C1D-ND | 2.94 | 1.41 | 1.37 |
| 25 | A | 825 | CLA | CMB-C2B | -2.94 | 1.45 | 1.51 |
| 25 | 4 | 309 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 25 | K | 201 | CLA | C1D-ND | 2.94 | 1.41 | 1.37 |
| 25 | T | 609 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 25 | B | 802 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 25 | 5 | 303 | CLA | C1D-ND | 2.93 | 1.41 | 1.37 |
| 25 | 5 | 314 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | U | 312 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 25 | B | 806 | CLA | C1D-ND | 2.93 | 1.41 | 1.37 |
| 25 | 9 | 301 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 5 | 315 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | A | 827 | CLA | C3B-C2B | -2.93 | 1.36 | 1.40 |
| 25 | P | 611 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 25 | 6 | 613 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 25 | A | 824 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | L | 206 | CLA | C1D-ND | 2.93 | 1.41 | 1.37 |
| 25 | A | 835 | CLA | CMB-C2B | -2.93 | 1.45 | 1.51 |
| 25 | B | 806 | CLA | CMB-C2B | -2.93 | 1.45 | 1.51 |
| 25 | 6 | 605 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | B | 826 | CLA | C1D-ND | 2.93 | 1.41 | 1.37 |
| 25 | B | 814 | CLA | CMB-C2B | -2.93 | 1.45 | 1.51 |
| 25 | B | 835 | CLA | CMB-C2B | -2.93 | 1.45 | 1.51 |
| 25 | B | 824 | CLA | C3B-C2B | -2.93 | 1.36 | 1.40 |
| 25 | B | 829 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | 4 | 313 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | 8 | 311 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | B | 819 | CLA | C1D-ND | 2.93 | 1.41 | 1.37 |
| 25 | 6 | 609 | CLA | C1D-ND | 2.93 | 1.41 | 1.37 |
| 25 | 9 | 309 | CLA | CHC-C1C | 2.93 | 1.42 | 1.35 |
| 25 | B | 826 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | 6 | 620 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | S | 312 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | 1 | 602 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | B | 836 | CLA | C1D-ND | 2.92 | 1.41 | 1.37 |
| 25 | 9 | 301 | CLA | C1D-ND | 2.92 | 1.41 | 1.37 |
| 25 | A | 807 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | A | 807 | CLA | CMB-C2B | -2.92 | 1.45 | 1.51 |
| 25 | 1 | 607 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | A | 822 | CLA | C1D-ND | 2.92 | 1.41 | 1.37 |
| 25 | B | 809 | CLA | C1D-ND | 2.92 | 1.41 | 1.37 |
| 25 | H | 203 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | 5 | 303 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | U | 311 | CLA | C2D-C1D | 2.92 | 1.48 | 1.42 |
| 25 | A | 814 | CLA | C3B-C2B | -2.92 | 1.36 | 1.40 |
| 25 | 7 | 307 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | B | 822 | CLA | C1D-ND | 2.92 | 1.41 | 1.37 |
| 25 | B | 831 | CLA | C1D-ND | 2.92 | 1.41 | 1.37 |
| 25 | 9 | 308 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | H | 202 | CLA | CHC-C1C | 2.92 | 1.42 | 1.35 |
| 25 | A | 823 | CLA | CMB-C2B | -2.91 | 1.45 | 1.51 |
| 33 | a | 305 | CHL | C1D-ND | -2.91 | 1.34 | 1.37 |
| 25 | A | 833 | CLA | CMB-C2B | -2.91 | 1.45 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | U | 309 | CHL | C1D-ND | -2.91 | 1.34 | 1.37 |
| 33 | a | 305 | CHL | MG-NA | -2.91 | 1.99 | 2.06 |
| 25 | A | 831 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 25 | B | 825 | CLA | C1D-ND | 2.91 | 1.41 | 1.37 |
| 25 | O | 202 | CLA | CMD-C2D | -2.91 | 1.44 | 1.50 |
| 25 | B | 837 | CLA | CMB-C2B | -2.91 | 1.45 | 1.51 |
| 25 | 3 | 305 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 25 | B | 832 | CLA | CMB-C2B | -2.91 | 1.45 | 1.51 |
| 25 | A | 815 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 25 | 3 | 310 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 25 | 2 | 303 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 25 | A | 832 | CLA | CMB-C2B | -2.91 | 1.45 | 1.51 |
| 25 | B | 809 | CLA | CMB-C2B | -2.91 | 1.45 | 1.51 |
| 25 | B | 806 | CLA | C3B-C2B | -2.90 | 1.36 | 1.40 |
| 25 | 5 | 302 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 25 | 7 | 306 | CLA | CMB-C2B | -2.90 | 1.45 | 1.51 |
| 25 | 3 | 314 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 25 | 2 | 314 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 25 | B | 823 | CLA | CMB-C2B | -2.90 | 1.45 | 1.51 |
| 25 | B | 804 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 25 | 7 | 308 | CLA | CMB-C2B | -2.90 | 1.45 | 1.51 |
| 25 | B | 823 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 25 | 7 | 302 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 25 | Q | 609 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 33 | P | 608 | CHL | C1D-ND | -2.90 | 1.34 | 1.37 |
| 33 | R | 608 | CHL | C1D-ND | -2.90 | 1.34 | 1.37 |
| 33 | T | 607 | CHL | C1D-ND | -2.90 | 1.34 | 1.37 |
| 25 | 6 | 609 | CLA | CMB-C2B | -2.90 | 1.45 | 1.51 |
| 25 | 6 | 614 | CLA | CMB-C2B | -2.90 | 1.45 | 1.51 |
| 25 | A | 838 | CLA | CHC-C1C | 2.90 | 1.42 | 1.35 |
| 25 | U | 310 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 25 | 7 | 307 | CLA | C1D-ND | 2.89 | 1.41 | 1.37 |
| 25 | 6 | 604 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | B | 833 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | 9 | 301 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | B | 830 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | B | 818 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | B | 818 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | 6 | 614 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | B | 809 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | B | 836 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | A | 840 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 3 | 320 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | 5 | 316 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | 1 | 604 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | 2 | 307 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | 3 | 307 | CLA | CMB-C2B | -2.89 | 1.45 | 1.51 |
| 25 | Q | 612 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 25 | A | 851 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | 7 | 301 | CLA | C3B-C2B | -2.89 | 1.36 | 1.40 |
| 25 | B | 812 | CLA | C1D-ND | 2.89 | 1.41 | 1.37 |
| 25 | B | 834 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | 6 | 611 | CLA | CHC-C1C | 2.89 | 1.42 | 1.35 |
| 25 | A | 836 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 25 | B | 810 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 25 | B | 819 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 34 | 5 | 322 | LUT | C1-C6 | -2.88 | 1.49 | 1.53 |
| 25 | 7 | 309 | CLA | C1D-ND | 2.88 | 1.41 | 1.37 |
| 25 | U | 313 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 25 | 3 | 301 | CLA | CMB-C2B | -2.88 | 1.45 | 1.51 |
| 25 | 3 | 303 | CLA | CMB-C2B | -2.88 | 1.45 | 1.51 |
| 33 | P | 605 | CHL | C1D-ND | -2.88 | 1.34 | 1.37 |
| 25 | S | 301 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 25 | 6 | 616 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 25 | 7 | 310 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 33 | 5 | 307 | CHL | C3D-C2D | 2.88 | 1.47 | 1.39 |
| 25 | 5 | 304 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | 6 | 601 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | A | 806 | CLA | C1D-ND | 2.87 | 1.41 | 1.37 |
| 25 | 8 | 310 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | 8 | 305 | CLA | CMB-C2B | -2.87 | 1.45 | 1.51 |
| 25 | A | 811 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | 3 | 311 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 33 | 3 | 306 | CHL | MG-NA | -2.87 | 1.99 | 2.06 |
| 25 | B | 837 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | A | 814 | CLA | CMB-C2B | -2.87 | 1.45 | 1.51 |
| 25 | L | 206 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | 3 | 314 | CLA | CMB-C2B | -2.87 | 1.45 | 1.51 |
| 25 | L | 201 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | 5 | 310 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | K | 201 | CLA | CMB-C2B | -2.87 | 1.45 | 1.51 |
| 25 | K | 204 | CLA | C4D-ND | -2.87 | 1.33 | 1.37 |
| 25 | B | 813 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |
| 25 | 9 | 302 | CLA | CHC-C1C | 2.87 | 1.42 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 8 | 304 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | 2 | 306 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | 5 | 305 | CLA | C1D-ND | 2.86 | 1.41 | 1.37 |
| 25 | a | 313 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | A | 836 | CLA | C3B-C2B | -2.86 | 1.36 | 1.40 |
| 25 | 7 | 313 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | B | 804 | CLA | C1D-ND | 2.86 | 1.41 | 1.37 |
| 25 | A | 812 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | A | 842 | CLA | CMB-C2B | -2.86 | 1.45 | 1.51 |
| 25 | B | 803 | CLA | CMB-C2B | -2.86 | 1.45 | 1.51 |
| 25 | A | 801 | CLA | CMB-C2B | -2.86 | 1.45 | 1.51 |
| 25 | A | 815 | CLA | CMB-C2B | -2.86 | 1.45 | 1.51 |
| 25 | B | 836 | CLA | CMB-C2B | -2.86 | 1.45 | 1.51 |
| 25 | A | 832 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | R | 613 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 25 | A | 814 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | B | 838 | CLA | CMB-C2B | -2.86 | 1.45 | 1.51 |
| 25 | B | 822 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | J | 105 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 28 | 4 | 321 | BCR | C30-C25 | -2.86 | 1.49 | 1.53 |
| 25 | B | 805 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | R | 610 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 25 | S | 301 | CLA | C3B-CAB | -2.86 | 1.42 | 1.47 |
| 25 | 9 | 305 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 25 | 1 | 614 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | 3 | 304 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |
| 25 | B | 807 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | B | 824 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | a | 301 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |
| 25 | 8 | 303 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 33 | Q | 607 | CHL | C1D-ND | -2.85 | 1.34 | 1.37 |
| 25 | 3 | 313 | CLA | C1D-ND | 2.85 | 1.41 | 1.37 |
| 25 | A | 819 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 34 | 7 | 314 | LUT | C1-C6 | -2.85 | 1.49 | 1.53 |
| 33 | U | 309 | CHL | C4B-CHC | 2.85 | 1.48 | 1.41 |
| 25 | a | 303 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |
| 25 | A | 809 | CLA | C1D-ND | 2.85 | 1.41 | 1.37 |
| 25 | B | 813 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |
| 25 | 4 | 301 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |
| 25 | A | 834 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |
| 25 | A | 837 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |
| 25 | 3 | 302 | CLA | CMB-C2B | -2.85 | 1.45 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | K | 205 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | 3 | 320 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | B | 828 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | 3 | 304 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | A | 840 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 25 | L | 209 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 25 | B | 808 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | A | 810 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | A | 842 | CLA | C3B-C2B | -2.84 | 1.36 | 1.40 |
| 25 | A | 817 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 25 | B | 824 | CLA | C1D-ND | 2.84 | 1.41 | 1.37 |
| 25 | 8 | 305 | CLA | C3B-C2B | -2.84 | 1.36 | 1.40 |
| 25 | 2 | 306 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | A | 813 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 25 | B | 801 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 34 | 3 | 316 | LUT | C1-C6 | -2.84 | 1.49 | 1.53 |
| 33 | P | 601 | CHL | C1D-ND | -2.84 | 1.34 | 1.37 |
| 25 | L | 201 | CLA | C3B-C2B | -2.84 | 1.36 | 1.40 |
| 25 | 9 | 304 | CLA | C3B-C2B | -2.84 | 1.36 | 1.40 |
| 33 | 1 | 606 | CHL | MG-NA | -2.84 | 1.99 | 2.06 |
| 25 | A | 802 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | A | 851 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | 7 | 302 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | A | 823 | CLA | C1D-ND | 2.84 | 1.41 | 1.37 |
| 25 | 6 | 623 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 25 | 1 | 607 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | 1 | 612 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 25 | A | 839 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 25 | 7 | 301 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 25 | 1 | 611 | CLA | CMB-C2B | -2.84 | 1.45 | 1.51 |
| 25 | 8 | 302 | CLA | CHC-C1C | 2.84 | 1.42 | 1.35 |
| 25 | A | 823 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | K | 201 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | A | 819 | CLA | C3B-C2B | -2.83 | 1.36 | 1.40 |
| 25 | H | 205 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | 5 | 324 | CLA | CMB-C2B | -2.83 | 1.45 | 1.51 |
| 33 | Q | 601 | CHL | C1D-ND | -2.83 | 1.34 | 1.37 |
| 25 | S | 320 | CLA | C4D-ND | -2.83 | 1.33 | 1.37 |
| 25 | A | 804 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | 3 | 307 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | B | 830 | CLA | C3B-C2B | -2.83 | 1.36 | 1.40 |
| 25 | A | 818 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 835 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | B | 817 | CLA | CMB-C2B | -2.83 | 1.45 | 1.51 |
| 25 | 2 | 304 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | 2 | 308 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | 2 | 311 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | 8 | 312 | CLA | CHC-C1C | 2.83 | 1.42 | 1.35 |
| 25 | 5 | 324 | CLA | C1D-ND | 2.83 | 1.41 | 1.37 |
| 25 | A | 802 | CLA | C1D-ND | 2.82 | 1.41 | 1.37 |
| 25 | A | 832 | CLA | C1D-ND | 2.82 | 1.41 | 1.37 |
| 25 | B | 808 | CLA | CHC-C1C | 2.82 | 1.42 | 1.35 |
| 25 | 8 | 305 | CLA | CHC-C1C | 2.82 | 1.42 | 1.35 |
| 25 | 3 | 308 | CLA | C1D-ND | 2.82 | 1.41 | 1.37 |
| 25 | A | 817 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | 9 | 305 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | 8 | 314 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | L | 202 | CLA | CHC-C1C | 2.82 | 1.42 | 1.35 |
| 25 | 1 | 610 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | B | 807 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | A | 819 | CLA | C1D-ND | 2.82 | 1.41 | 1.37 |
| 33 | S | 310 | CHL | C1D-ND | -2.82 | 1.34 | 1.37 |
| 25 | L | 202 | CLA | C3B-C2B | -2.82 | 1.36 | 1.40 |
| 25 | B | 822 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | 8 | 304 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | A | 807 | CLA | C3B-C2B | -2.82 | 1.36 | 1.40 |
| 25 | Q | 603 | CLA | C4D-ND | -2.82 | 1.33 | 1.37 |
| 33 | R | 601 | CHL | C1D-ND | -2.82 | 1.34 | 1.37 |
| 25 | 1 | 612 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | 5 | 303 | CLA | C3B-C2B | -2.82 | 1.36 | 1.40 |
| 25 | 8 | 313 | CLA | CHC-C1C | 2.82 | 1.42 | 1.35 |
| 25 | P | 602 | CLA | C4D-ND | -2.82 | 1.33 | 1.37 |
| 25 | B | 819 | CLA | CMB-C2B | -2.82 | 1.45 | 1.51 |
| 25 | B | 827 | CLA | CHC-C1C | 2.81 | 1.42 | 1.35 |
| 25 | B | 849 | CLA | CHC-C1C | 2.81 | 1.42 | 1.35 |
| 25 | 5 | 319 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 28 | B | 842 | BCR | C30-C25 | -2.81 | 1.49 | 1.53 |
| 25 | B | 805 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 25 | U | 303 | CLA | C4D-ND | -2.81 | 1.33 | 1.37 |
| 25 | B | 812 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 25 | A | 812 | CLA | C3B-C2B | -2.81 | 1.36 | 1.40 |
| 25 | 8 | 313 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 25 | 3 | 301 | CLA | CHC-C1C | 2.81 | 1.42 | 1.35 |
| 25 | A | 809 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 842 | CLA | C1D-ND | 2.81 | 1.41 | 1.37 |
| 25 | A | 810 | CLA | CHC-C1C | 2.81 | 1.42 | 1.35 |
| 25 | B | 817 | CLA | CHC-C1C | 2.81 | 1.42 | 1.35 |
| 33 | 7 | 305 | CHL | C3D-C2D | 2.81 | 1.46 | 1.39 |
| 25 | 7 | 311 | CLA | CHC-C1C | 2.81 | 1.42 | 1.35 |
| 25 | 3 | 308 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 25 | 2 | 303 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 25 | 5 | 313 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 33 | T | 607 | CHL | MG-NA | -2.81 | 1.99 | 2.06 |
| 25 | A | 804 | CLA | CMB-C2B | -2.80 | 1.45 | 1.51 |
| 25 | A | 853 | CLA | CMB-C2B | -2.80 | 1.45 | 1.51 |
| 25 | 4 | 311 | CLA | CHC-C1C | 2.80 | 1.42 | 1.35 |
| 25 | A | 803 | CLA | CMB-C2B | -2.80 | 1.45 | 1.51 |
| 25 | B | 837 | CLA | C1D-ND | 2.80 | 1.41 | 1.37 |
| 25 | B | 816 | CLA | CHC-C1C | 2.80 | 1.42 | 1.35 |
| 25 | 6 | 603 | CLA | CHC-C1C | 2.80 | 1.42 | 1.35 |
| 25 | 3 | 302 | CLA | CMD-C2D | -2.80 | 1.44 | 1.50 |
| 25 | 3 | 313 | CLA | CHC-C1C | 2.80 | 1.42 | 1.35 |
| 25 | 2 | 308 | CLA | CMB-C2B | -2.80 | 1.45 | 1.51 |
| 33 | S | 307 | CHL | C4B-CHC | 2.80 | 1.48 | 1.41 |
| 25 | B | 815 | CLA | C3B-CAB | -2.80 | 1.42 | 1.47 |
| 25 | B | 810 | CLA | C1D-ND | 2.80 | 1.41 | 1.37 |
| 34 | 3 | 315 | LUT | C1-C6 | -2.80 | 1.49 | 1.53 |
| 33 | R | 606 | CHL | C1D-ND | -2.80 | 1.34 | 1.37 |
| 25 | B | 811 | CLA | C3B-CAB | -2.79 | 1.42 | 1.47 |
| 33 | 6 | 608 | CHL | C3D-C2D | 2.79 | 1.46 | 1.39 |
| 25 | 5 | 313 | CLA | C3B-C2B | -2.79 | 1.36 | 1.40 |
| 25 | 4 | 308 | CLA | CMB-C2B | -2.79 | 1.45 | 1.51 |
| 25 | B | 805 | CLA | C1D-ND | 2.79 | 1.41 | 1.37 |
| 25 | 1 | 612 | CLA | C1D-ND | 2.79 | 1.41 | 1.37 |
| 25 | B | 806 | CLA | CHC-C1C | 2.79 | 1.42 | 1.35 |
| 25 | 7 | 310 | CLA | C3B-C2B | -2.79 | 1.36 | 1.40 |
| 25 | B | 832 | CLA | C3B-C2B | -2.79 | 1.36 | 1.40 |
| 25 | 6 | 612 | CLA | CMB-C2B | -2.79 | 1.45 | 1.51 |
| 25 | B | 849 | CLA | CMB-C2B | -2.79 | 1.45 | 1.51 |
| 25 | A | 838 | CLA | CMB-C2B | -2.79 | 1.45 | 1.51 |
| 25 | B | 825 | CLA | CMB-C2B | -2.79 | 1.45 | 1.51 |
| 25 | 8 | 314 | CLA | C1D-ND | 2.79 | 1.41 | 1.37 |
| 28 | L | 204 | BCR | C1-C6 | -2.79 | 1.49 | 1.53 |
| 25 | 9 | 304 | CLA | CMB-C2B | -2.79 | 1.45 | 1.51 |
| 25 | 7 | 311 | CLA | CMB-C2B | -2.79 | 1.45 | 1.51 |
| 33 | 1 | 601 | CHL | C1C-NC | -2.79 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 808 | CLA | C3B-C2B | -2.79 | 1.36 | 1.40 |
| 25 | O | 203 | CLA | CHC-C1C | 2.79 | 1.42 | 1.35 |
| 25 | Q | 602 | CLA | C4D-ND | -2.79 | 1.33 | 1.37 |
| 25 | B | 829 | CLA | C1D-ND | 2.78 | 1.41 | 1.37 |
| 25 | A | 801 | CLA | CHC-C1C | 2.78 | 1.42 | 1.35 |
| 25 | A | 834 | CLA | CHC-C1C | 2.78 | 1.42 | 1.35 |
| 25 | 2 | 312 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 25 | 7 | 312 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 25 | 5 | 305 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 25 | A | 822 | CLA | CHC-C1C | 2.78 | 1.42 | 1.35 |
| 33 | P | 606 | CHL | C1D-ND | -2.78 | 1.34 | 1.37 |
| 25 | H | 203 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 25 | T | 611 | CLA | C4D-ND | -2.78 | 1.33 | 1.37 |
| 25 | 4 | 301 | CLA | C1D-ND | 2.78 | 1.41 | 1.37 |
| 25 | 6 | 609 | CLA | CHC-C1C | 2.78 | 1.42 | 1.35 |
| 25 | A | 839 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 25 | 1 | 609 | CLA | C4D-ND | -2.78 | 1.33 | 1.37 |
| 25 | A | 820 | CLA | C3B-C2B | -2.78 | 1.36 | 1.40 |
| 25 | 5 | 313 | CLA | CHC-C1C | 2.78 | 1.42 | 1.35 |
| 28 | L | 203 | BCR | C30-C25 | -2.78 | 1.49 | 1.53 |
| 25 | A | 803 | CLA | C3B-C2B | -2.78 | 1.36 | 1.40 |
| 25 | B | 821 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 25 | G | 202 | CLA | CMB-C2B | -2.78 | 1.45 | 1.51 |
| 25 | 5 | 316 | CLA | CHC-C1C | 2.78 | 1.42 | 1.35 |
| 25 | 7 | 306 | CLA | C3B-C2B | -2.77 | 1.36 | 1.40 |
| 25 | F | 802 | CLA | CMB-C2B | -2.77 | 1.45 | 1.51 |
| 25 | A | 820 | CLA | C1D-ND | 2.77 | 1.41 | 1.37 |
| 25 | 1 | 602 | CLA | CMB-C2B | -2.77 | 1.45 | 1.51 |
| 25 | 4 | 308 | CLA | CHC-C1C | 2.77 | 1.42 | 1.35 |
| 25 | 2 | 303 | CLA | C3B-C2B | -2.77 | 1.36 | 1.40 |
| 25 | a | 308 | CLA | C1D-ND | 2.77 | 1.41 | 1.37 |
| 33 | S | 307 | CHL | C1D-ND | -2.77 | 1.34 | 1.37 |
| 25 | L | 205 | CLA | CMB-C2B | -2.77 | 1.45 | 1.51 |
| 33 | S | 306 | CHL | C4C-C3C | 2.77 | 1.49 | 1.45 |
| 25 | 9 | 303 | CLA | CHC-C1C | 2.77 | 1.42 | 1.35 |
| 25 | J | 103 | CLA | CMB-C2B | -2.77 | 1.45 | 1.51 |
| 25 | J | 103 | CLA | CHC-C1C | 2.77 | 1.42 | 1.35 |
| 25 | 7 | 304 | CLA | CHC-C1C | 2.76 | 1.42 | 1.35 |
| 25 | A | 826 | CLA | CMB-C2B | -2.76 | 1.45 | 1.51 |
| 25 | B | 829 | CLA | CMB-C2B | -2.76 | 1.45 | 1.51 |
| 25 | A | 821 | CLA | CHC-C1C | 2.76 | 1.42 | 1.35 |
| 25 | 2 | 305 | CLA | CMB-C2B | -2.76 | 1.45 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 3 | 304 | CLA | C3B-C2B | -2.76 | 1.36 | 1.40 |
| 25 | 4 | 303 | CLA | CMB-C2B | -2.76 | 1.45 | 1.51 |
| 33 | 8 | 307 | CHL | MG-NA | -2.76 | 1.99 | 2.06 |
| 25 | H | 202 | CLA | CMB-C2B | -2.76 | 1.45 | 1.51 |
| 25 | A | 816 | CLA | CMB-C2B | -2.76 | 1.45 | 1.51 |
| 25 | 1 | 613 | CLA | CMB-C2B | -2.76 | 1.45 | 1.51 |
| 33 | T | 605 | CHL | C1D-ND | -2.76 | 1.34 | 1.37 |
| 25 | B | 814 | CLA | CHC-C1C | 2.76 | 1.42 | 1.35 |
| 33 | S | 302 | CHL | C1D-ND | -2.75 | 1.34 | 1.37 |
| 25 | O | 202 | CLA | CMB-C2B | -2.75 | 1.45 | 1.51 |
| 25 | 6 | 616 | CLA | CMB-C2B | -2.75 | 1.45 | 1.51 |
| 33 | Q | 606 | CHL | C1D-ND | -2.75 | 1.34 | 1.37 |
| 25 | 5 | 309 | CLA | CHC-C1C | 2.75 | 1.42 | 1.35 |
| 33 | S | 306 | CHL | C1D-ND | -2.75 | 1.34 | 1.37 |
| 25 | 7 | 303 | CLA | CMB-C2B | -2.75 | 1.45 | 1.51 |
| 33 | R | 601 | CHL | C4B-CHC | 2.75 | 1.48 | 1.41 |
| 25 | B | 833 | CLA | C1D-ND | 2.75 | 1.41 | 1.37 |
| 25 | 8 | 308 | CLA | CMB-C2B | -2.75 | 1.45 | 1.51 |
| 33 | 9 | 307 | CHL | MG-NA | -2.75 | 1.99 | 2.06 |
| 25 | 3 | 311 | CLA | CMB-C2B | -2.74 | 1.45 | 1.51 |
| 33 | T | 606 | CHL | C1D-ND | -2.74 | 1.34 | 1.37 |
| 25 | A | 817 | CLA | C3B-C2B | -2.74 | 1.36 | 1.40 |
| 25 | U | 302 | CLA | C4D-ND | -2.74 | 1.33 | 1.37 |
| 25 | A | 828 | CLA | CHC-C1C | 2.74 | 1.42 | 1.35 |
| 25 | 3 | 308 | CLA | CHC-C1C | 2.74 | 1.42 | 1.35 |
| 25 | a | 303 | CLA | CMD-C2D | -2.74 | 1.45 | 1.50 |
| 25 | L | 206 | CLA | CMB-C2B | -2.74 | 1.45 | 1.51 |
| 25 | L | 201 | CLA | C1D-ND | 2.74 | 1.41 | 1.37 |
| 25 | A | 803 | CLA | MG-ND | -2.74 | 2.00 | 2.05 |
| 25 | A | 821 | CLA | C3B-C2B | -2.74 | 1.36 | 1.40 |
| 25 | B | 833 | CLA | C3B-C2B | -2.74 | 1.36 | 1.40 |
| 25 | A | 806 | CLA | CHC-C1C | 2.74 | 1.42 | 1.35 |
| 25 | a | 311 | CLA | CHC-C1C | 2.74 | 1.42 | 1.35 |
| 25 | 9 | 303 | CLA | CMB-C2B | -2.74 | 1.45 | 1.51 |
| 25 | 5 | 312 | CLA | CMB-C2B | -2.74 | 1.45 | 1.51 |
| 33 | 1 | 601 | CHL | MG-NA | -2.73 | 1.99 | 2.06 |
| 25 | 8 | 309 | CLA | CMB-C2B | -2.73 | 1.46 | 1.51 |
| 25 | U | 313 | CLA | C3B-CAB | -2.73 | 1.42 | 1.47 |
| 25 | L | 205 | CLA | CHC-C1C | 2.73 | 1.42 | 1.35 |
| 33 | Q | 601 | CHL | C4B-CHC | 2.73 | 1.48 | 1.41 |
| 25 | A | 805 | CLA | C1D-ND | 2.73 | 1.41 | 1.37 |
| 25 | 1 | 605 | CLA | C3B-C2B | -2.73 | 1.36 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 7 | 307 | CLA | CMB-C2B | -2.73 | 1.46 | 1.51 |
| 33 | P | 601 | CHL | C4B-CHC | 2.73 | 1.48 | 1.41 |
| 33 | R | 605 | CHL | C4B-CHC | 2.73 | 1.48 | 1.41 |
| 25 | B | 821 | CLA | CMC-C2C | -2.73 | 1.45 | 1.50 |
| 25 | 1 | 610 | CLA | C3B-C2B | -2.73 | 1.36 | 1.40 |
| 25 | 2 | 311 | CLA | CMB-C2B | -2.73 | 1.46 | 1.51 |
| 25 | A | 833 | CLA | C1D-ND | 2.73 | 1.41 | 1.37 |
| 25 | 5 | 311 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | B | 811 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 25 | B | 831 | CLA | C3B-C2B | -2.72 | 1.36 | 1.40 |
| 25 | 7 | 310 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | A | 842 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 25 | 3 | 313 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | A | 827 | CLA | C1D-ND | 2.72 | 1.41 | 1.37 |
| 25 | 7 | 309 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 33 | S | 309 | CHL | C1D-ND | -2.72 | 1.34 | 1.37 |
| 25 | A | 832 | CLA | C3B-C2B | -2.72 | 1.36 | 1.40 |
| 25 | B | 820 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 25 | B | 802 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | A | 826 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 25 | 1 | 609 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | G | 201 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | 6 | 605 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | B | 820 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | 6 | 610 | CLA | CMB-C2B | -2.72 | 1.46 | 1.51 |
| 25 | B | 812 | CLA | C3B-C2B | -2.72 | 1.36 | 1.40 |
| 25 | B | 833 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 25 | A | 829 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 25 | A | 818 | CLA | CMB-C2B | -2.71 | 1.46 | 1.51 |
| 25 | K | 203 | CLA | CMB-C2B | -2.71 | 1.46 | 1.51 |
| 25 | T | 602 | CLA | C4D-ND | -2.71 | 1.34 | 1.37 |
| 33 | 5 | 308 | CHL | C3D-C2D | 2.71 | 1.46 | 1.39 |
| 25 | A | 829 | CLA | C1D-ND | 2.71 | 1.41 | 1.37 |
| 33 | 4 | 305 | CHL | C4B-CHC | 2.71 | 1.48 | 1.41 |
| 33 | P | 608 | CHL | MG-NA | -2.71 | 1.99 | 2.06 |
| 33 | T | 601 | CHL | C4B-CHC | 2.71 | 1.48 | 1.41 |
| 25 | a | 301 | CLA | C3B-C2B | -2.71 | 1.36 | 1.40 |
| 25 | B | 822 | CLA | C3B-C2B | -2.71 | 1.36 | 1.40 |
| 25 | 7 | 311 | CLA | C3B-C2B | -2.71 | 1.36 | 1.40 |
| 25 | 2 | 302 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 25 | A | 819 | CLA | C3B-CAB | -2.70 | 1.42 | 1.47 |
| 25 | 1 | 603 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 811 | CLA | C3B-C2B | -2.70 | 1.36 | 1.40 |
| 25 | 4 | 310 | CLA | CAA-C2A | -2.70 | 1.49 | 1.54 |
| 25 | 3 | 301 | CLA | C3B-C2B | -2.70 | 1.36 | 1.40 |
| 25 | 3 | 314 | CLA | C3B-C2B | -2.70 | 1.36 | 1.40 |
| 25 | 1 | 608 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 25 | 4 | 307 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 25 | 8 | 312 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 33 | R | 608 | CHL | MG-NA | -2.70 | 1.99 | 2.06 |
| 25 | a | 307 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 25 | A | 828 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 25 | 5 | 306 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 25 | A | 806 | CLA | C3B-C2B | -2.70 | 1.36 | 1.40 |
| 33 | 5 | 307 | CHL | C1C-NC | -2.70 | 1.33 | 1.37 |
| 25 | A | 835 | CLA | C3B-CAB | -2.70 | 1.42 | 1.47 |
| 25 | A | 830 | CLA | CHC-C1C | 2.70 | 1.41 | 1.35 |
| 25 | B | 802 | CLA | C1D-ND | 2.69 | 1.41 | 1.37 |
| 33 | Q | 607 | CHL | MG-NA | -2.69 | 1.99 | 2.06 |
| 25 | 3 | 307 | CLA | C1D-ND | 2.69 | 1.41 | 1.37 |
| 25 | 2 | 307 | CLA | CMB-C2B | -2.69 | 1.46 | 1.51 |
| 25 | 1 | 602 | CLA | C3B-C2B | -2.69 | 1.36 | 1.40 |
| 36 | U | 301 | NEX | C1-C6 | -2.69 | 1.50 | 1.54 |
| 25 | 3 | 303 | CLA | CHC-C1C | 2.69 | 1.41 | 1.35 |
| 25 | 7 | 303 | CLA | C1D-ND | 2.69 | 1.41 | 1.37 |
| 25 | 8 | 311 | CLA | CMB-C2B | -2.69 | 1.46 | 1.51 |
| 25 | a | 302 | CLA | CMB-C2B | -2.69 | 1.46 | 1.51 |
| 25 | B | 807 | CLA | C3B-C2B | -2.69 | 1.36 | 1.40 |
| 25 | H | 201 | CLA | CMB-C2B | -2.69 | 1.46 | 1.51 |
| 33 | 6 | 617 | CHL | C1D-ND | -2.69 | 1.34 | 1.37 |
| 25 | 5 | 304 | CLA | CMB-C2B | -2.68 | 1.46 | 1.51 |
| 33 | 6 | 608 | CHL | MG-NA | -2.68 | 1.99 | 2.06 |
| 25 | 8 | 313 | CLA | C3B-C2B | -2.68 | 1.36 | 1.40 |
| 33 | R | 601 | CHL | C4C-C3C | 2.68 | 1.49 | 1.45 |
| 33 | 3 | 306 | CHL | C1C-NC | -2.68 | 1.33 | 1.37 |
| 25 | A | 833 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |
| 33 | T | 606 | CHL | MG-NA | -2.68 | 1.99 | 2.06 |
| 25 | B | 823 | CLA | C1D-ND | 2.68 | 1.41 | 1.37 |
| 25 | 8 | 308 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |
| 25 | a | 308 | CLA | C4D-ND | -2.68 | 1.34 | 1.37 |
| 25 | 5 | 319 | CLA | C3B-C2B | -2.68 | 1.36 | 1.40 |
| 25 | 7 | 309 | CLA | C3B-C2B | -2.68 | 1.36 | 1.40 |
| 25 | 2 | 304 | CLA | CMB-C2B | -2.67 | 1.46 | 1.51 |
| 25 | 6 | 604 | CLA | CMB-C2B | -2.67 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 9 | 306 | CHL | C3D-C2D | 2.67 | 1.46 | 1.39 |
| 25 | A | 826 | CLA | C3B-C2B | -2.67 | 1.36 | 1.40 |
| 25 | 2 | 306 | CLA | C3B-C2B | -2.67 | 1.36 | 1.40 |
| 25 | 2 | 314 | CLA | CMB-C2B | -2.67 | 1.46 | 1.51 |
| 25 | 6 | 611 | CLA | CMB-C2B | -2.67 | 1.46 | 1.51 |
| 25 | K | 205 | CLA | CMB-C2B | -2.67 | 1.46 | 1.51 |
| 25 | B | 825 | CLA | CHC-C1C | 2.67 | 1.41 | 1.35 |
| 25 | K | 202 | CLA | CMB-C2B | -2.66 | 1.46 | 1.51 |
| 25 | 6 | 613 | CLA | CMB-C2B | -2.66 | 1.46 | 1.51 |
| 25 | R | 602 | CLA | C4D-ND | -2.66 | 1.34 | 1.37 |
| 33 | S | 306 | CHL | C4D-CHA | 2.66 | 1.47 | 1.38 |
| 25 | B | 827 | CLA | C1D-ND | 2.66 | 1.41 | 1.37 |
| 25 | 3 | 312 | CLA | CMB-C2B | -2.66 | 1.46 | 1.51 |
| 25 | 7 | 313 | CLA | CMB-C2B | -2.66 | 1.46 | 1.51 |
| 25 | A | 805 | CLA | C3B-CAB | -2.66 | 1.42 | 1.47 |
| 25 | H | 201 | CLA | CHC-C1C | 2.66 | 1.41 | 1.35 |
| 33 | 1 | 606 | CHL | C4B-CHC | 2.66 | 1.48 | 1.41 |
| 25 | 2 | 310 | CLA | CMB-C2B | -2.66 | 1.46 | 1.51 |
| 25 | B | 823 | CLA | C3B-C2B | -2.66 | 1.36 | 1.40 |
| 25 | A | 851 | CLA | C3B-C2B | -2.65 | 1.36 | 1.40 |
| 25 | 8 | 302 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 25 | 5 | 303 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 33 | P | 601 | CHL | C4C-C3C | 2.65 | 1.49 | 1.45 |
| 25 | 9 | 311 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 33 | S | 302 | CHL | C4B-CHC | 2.65 | 1.48 | 1.41 |
| 25 | 3 | 310 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 25 | 5 | 302 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 25 | 5 | 316 | CLA | C3B-C2B | -2.65 | 1.36 | 1.40 |
| 25 | 5 | 315 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 33 | Q | 601 | CHL | C4C-C3C | 2.65 | 1.49 | 1.45 |
| 33 | a | 305 | CHL | C4B-CHC | 2.65 | 1.48 | 1.41 |
| 33 | P | 622 | CHL | C1C-NC | -2.65 | 1.33 | 1.37 |
| 25 | 6 | 615 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 33 | U | 305 | CHL | C4D-CHA | 2.65 | 1.47 | 1.38 |
| 25 | 3 | 307 | CLA | C3B-C2B | -2.64 | 1.36 | 1.40 |
| 25 | O | 203 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 25 | 3 | 311 | CLA | C3B-C2B | -2.64 | 1.36 | 1.40 |
| 25 | B | 825 | CLA | C3B-C2B | -2.64 | 1.36 | 1.40 |
| 25 | 9 | 310 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 34 | 1 | 615 | LUT | C1-C6 | -2.64 | 1.50 | 1.53 |
| 25 | 9 | 305 | CLA | C3B-C2B | -2.64 | 1.36 | 1.40 |
| 25 | A | 833 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 34 | 1 | 616 | LUT | C1-C6 | -2.63 | 1.50 | 1.53 |
| 25 | B | 808 | CLA | CMC-C2C | -2.63 | 1.45 | 1.50 |
| 25 | 5 | 314 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 25 | A | 806 | CLA | C3B-CAB | -2.63 | 1.42 | 1.47 |
| 25 | 1 | 607 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |
| 25 | 6 | 620 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 28 | B | 841 | BCR | C30-C25 | -2.63 | 1.50 | 1.53 |
| 25 | B | 836 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |
| 25 | 8 | 306 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 25 | 6 | 610 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |
| 25 | L | 209 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 25 | O | 201 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 25 | L | 205 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |
| 25 | 3 | 320 | CLA | C1D-ND | 2.63 | 1.41 | 1.37 |
| 25 | H | 205 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 25 | 8 | 303 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |
| 25 | 3 | 305 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 25 | 2 | 302 | CLA | C3B-C2B | -2.62 | 1.36 | 1.40 |
| 33 | 4 | 304 | CHL | MG-NA | -2.62 | 2.00 | 2.06 |
| 25 | 9 | 309 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 25 | A | 835 | CLA | C1D-ND | 2.62 | 1.41 | 1.37 |
| 33 | 6 | 607 | CHL | MG-NA | -2.62 | 2.00 | 2.06 |
| 25 | 4 | 302 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 25 | A | 822 | CLA | C3B-C2B | -2.62 | 1.36 | 1.40 |
| 25 | 3 | 303 | CLA | C3B-C2B | -2.62 | 1.36 | 1.40 |
| 33 | U | 305 | CHL | C1D-ND | -2.62 | 1.34 | 1.37 |
| 25 | 5 | 310 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 25 | 9 | 308 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 33 | Q | 605 | CHL | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 25 | B | 808 | CLA | CMD-C2D | -2.61 | 1.45 | 1.50 |
| 33 | U | 308 | CHL | C1D-ND | -2.61 | 1.34 | 1.37 |
| 25 | 4 | 312 | CLA | CMB-C2B | -2.61 | 1.46 | 1.51 |
| 25 | 6 | 614 | CLA | C3B-C2B | -2.61 | 1.36 | 1.40 |
| 25 | L | 205 | CLA | C3B-CAB | -2.61 | 1.42 | 1.47 |
| 25 | A | 835 | CLA | MG-ND | -2.61 | 2.00 | 2.05 |
| 25 | 4 | 307 | CLA | C3B-C2B | -2.61 | 1.36 | 1.40 |
| 25 | A | 803 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 25 | A | 814 | CLA | CMC-C2C | -2.60 | 1.45 | 1.50 |
| 25 | a | 308 | CLA | CMC-C2C | -2.60 | 1.45 | 1.50 |
| 33 | T | 601 | CHL | C4C-C3C | 2.60 | 1.49 | 1.45 |
| 25 | 8 | 315 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |
| 25 | a | 311 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | T | 604 | CHL | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 33 | T | 607 | CHL | C4B-CHC | 2.60 | 1.48 | 1.41 |
| 25 | B | 828 | CLA | C3B-C2B | -2.60 | 1.36 | 1.40 |
| 33 | U | 306 | CHL | C4B-CHC | 2.59 | 1.48 | 1.41 |
| 33 | S | 308 | CHL | C1D-ND | -2.59 | 1.34 | 1.37 |
| 28 | F | 803 | BCR | C1-C6 | -2.59 | 1.50 | 1.53 |
| 25 | R | 602 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 25 | 6 | 605 | CLA | CMD-C2D | -2.59 | 1.45 | 1.50 |
| 25 | A | 825 | CLA | CMD-C2D | -2.59 | 1.45 | 1.50 |
| 25 | A | 806 | CLA | CMC-C2C | -2.59 | 1.45 | 1.50 |
| 25 | a | 303 | CLA | C5-C3 | -2.59 | 1.45 | 1.51 |
| 28 | F | 801 | BCR | C1-C6 | -2.59 | 1.50 | 1.53 |
| 25 | B | 815 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 33 | Q | 601 | CHL | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 33 | S | 310 | CHL | C4B-CHC | 2.59 | 1.48 | 1.41 |
| 33 | R | 607 | CHL | C4B-CHC | 2.59 | 1.48 | 1.41 |
| 25 | A | 825 | CLA | C3B-CAB | -2.59 | 1.42 | 1.47 |
| 25 | A | 830 | CLA | C3B-C2B | -2.59 | 1.36 | 1.40 |
| 33 | P | 605 | CHL | MG-NA | -2.59 | 2.00 | 2.06 |
| 33 | 5 | 317 | CHL | MG-NA | -2.59 | 2.00 | 2.06 |
| 25 | a | 303 | CLA | C1D-ND | 2.59 | 1.41 | 1.37 |
| 33 | S | 321 | CHL | C1D-ND | -2.59 | 1.34 | 1.37 |
| 34 | 7 | 315 | LUT | C1-C6 | -2.59 | 1.50 | 1.53 |
| 25 | 3 | 309 | CLA | CMB-C2B | -2.58 | 1.46 | 1.51 |
| 25 | a | 310 | CLA | CMB-C2B | -2.58 | 1.46 | 1.51 |
| 33 | S | 307 | CHL | MG-NA | -2.58 | 2.00 | 2.06 |
| 25 | 7 | 303 | CLA | C3B-CAB | -2.58 | 1.42 | 1.47 |
| 25 | 8 | 303 | CLA | CMC-C2C | -2.58 | 1.45 | 1.50 |
| 25 | A | 810 | CLA | C3B-CAB | -2.58 | 1.42 | 1.47 |
| 33 | S | 310 | CHL | MG-NA | -2.58 | 2.00 | 2.06 |
| 33 | S | 321 | CHL | C4B-CHC | 2.58 | 1.48 | 1.41 |
| 25 | L | 205 | CLA | C1D-ND | 2.58 | 1.41 | 1.37 |
| 33 | R | 606 | CHL | C4B-CHC | 2.58 | 1.48 | 1.41 |
| 33 | S | 307 | CHL | C2C-C1C | 2.58 | 1.50 | 1.44 |
| 25 | A | 827 | CLA | CMD-C2D | -2.58 | 1.45 | 1.50 |
| 33 | T | 607 | CHL | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 25 | 5 | 309 | CLA | C3B-CAB | -2.58 | 1.42 | 1.47 |
| 25 | A | 837 | CLA | C3B-C2B | -2.57 | 1.36 | 1.40 |
| 25 | A | 813 | CLA | C3B-CAB | -2.57 | 1.42 | 1.47 |
| 25 | J | 105 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 25 | B | 808 | CLA | C1D-ND | 2.57 | 1.40 | 1.37 |
| 25 | 5 | 306 | CLA | CMD-C2D | -2.57 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 838 | CLA | C3B-C2B | -2.57 | 1.36 | 1.40 |
| 25 | 2 | 313 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 25 | 7 | 308 | CLA | C3B-CAB | -2.57 | 1.42 | 1.47 |
| 25 | 1 | 609 | CLA | C1D-ND | 2.57 | 1.40 | 1.37 |
| 33 | U | 306 | CHL | C1D-ND | -2.57 | 1.34 | 1.37 |
| 25 | 2 | 309 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 25 | B | 812 | CLA | C3B-CAB | -2.57 | 1.42 | 1.47 |
| 33 | P | 607 | CHL | C4B-CHC | 2.57 | 1.48 | 1.41 |
| 33 | P | 601 | CHL | C4D-CHA | 2.57 | 1.47 | 1.38 |
| 25 | A | 821 | CLA | CMD-C2D | -2.56 | 1.45 | 1.50 |
| 33 | S | 321 | CHL | MG-NA | -2.56 | 2.00 | 2.06 |
| 25 | 6 | 623 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 25 | a | 309 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 33 | P | 622 | CHL | C1B-CHB | 2.56 | 1.48 | 1.41 |
| 25 | 4 | 310 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 25 | 8 | 302 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 25 | 1 | 612 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 25 | F | 802 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 25 | A | 820 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 25 | 1 | 612 | CLA | CMD-C2D | -2.56 | 1.45 | 1.50 |
| 33 | P | 619 | CHL | C4B-CHC | 2.56 | 1.48 | 1.41 |
| 33 | R | 601 | CHL | C4D-CHA | 2.56 | 1.47 | 1.38 |
| 33 | U | 307 | CHL | C4B-CHC | 2.56 | 1.48 | 1.41 |
| 33 | S | 302 | CHL | C4D-CHA | 2.56 | 1.47 | 1.38 |
| 25 | 6 | 601 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 25 | 6 | 613 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 25 | a | 312 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 25 | 1 | 614 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 25 | 5 | 305 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 33 | 8 | 307 | CHL | C4B-CHC | 2.56 | 1.48 | 1.41 |
| 25 | A | 814 | CLA | C3B-CAB | -2.56 | 1.42 | 1.47 |
| 33 | 9 | 307 | CHL | C4B-CHC | 2.56 | 1.48 | 1.41 |
| 25 | A | 828 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 33 | U | 308 | CHL | MG-NA | -2.56 | 2.00 | 2.06 |
| 25 | 2 | 304 | CLA | C3B-C2B | -2.55 | 1.36 | 1.40 |
| 33 | P | 622 | CHL | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 33 | 7 | 305 | CHL | MG-NA | -2.55 | 2.00 | 2.06 |
| 25 | A | 818 | CLA | C3B-C2B | -2.55 | 1.36 | 1.40 |
| 25 | 1 | 612 | CLA | C3B-C2B | -2.55 | 1.36 | 1.40 |
| 25 | 5 | 302 | CLA | C3B-CAB | -2.55 | 1.42 | 1.47 |
| 25 | A | 814 | CLA | CMD-C2D | -2.55 | 1.45 | 1.50 |
| 25 | A | 832 | CLA | CMD-C2D | -2.55 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 806 | CLA | CMD-C2D | -2.55 | 1.45 | 1.50 |
| 28 | L | 204 | BCR | C30-C25 | -2.55 | 1.50 | 1.53 |
| 33 | Q | 608 | CHL | C2-C3 | 2.55 | 1.39 | 1.33 |
| 25 | O | 203 | CLA | CMD-C2D | -2.55 | 1.45 | 1.50 |
| 25 | 1 | 611 | CLA | CMD-C2D | -2.55 | 1.45 | 1.50 |
| 33 | T | 604 | CHL | C1D-ND | -2.55 | 1.34 | 1.37 |
| 25 | B | 826 | CLA | CMD-C2D | -2.55 | 1.45 | 1.50 |
| 33 | U | 307 | CHL | C1D-ND | -2.55 | 1.34 | 1.37 |
| 25 | Q | 611 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 33 | T | 607 | CHL | C4C-C3C | 2.54 | 1.49 | 1.45 |
| 25 | B | 802 | CLA | C3B-C2B | -2.54 | 1.36 | 1.40 |
| 33 | T | 601 | CHL | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 34 | 6 | 619 | LUT | C1-C6 | -2.54 | 1.50 | 1.53 |
| 25 | A | 836 | CLA | CMD-C2D | -2.54 | 1.45 | 1.50 |
| 33 | S | 308 | CHL | C4B-CHC | 2.54 | 1.48 | 1.41 |
| 25 | 9 | 311 | CLA | C3B-C2B | -2.54 | 1.36 | 1.40 |
| 33 | R | 605 | CHL | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 33 | P | 609 | CHL | C2-C3 | 2.54 | 1.39 | 1.33 |
| 25 | B | 801 | CLA | C3B-C2B | -2.54 | 1.36 | 1.40 |
| 25 | Q | 610 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 25 | A | 835 | CLA | CMC-C2C | -2.53 | 1.45 | 1.50 |
| 25 | T | 608 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 25 | 9 | 308 | CLA | CMD-C2D | -2.53 | 1.45 | 1.50 |
| 28 | B | 840 | BCR | C1-C6 | -2.53 | 1.50 | 1.53 |
| 25 | 1 | 604 | CLA | MG-ND | -2.53 | 2.00 | 2.05 |
| 25 | B | 801 | CLA | C3B-CAB | -2.53 | 1.42 | 1.47 |
| 33 | T | 606 | CHL | C4B-CHC | 2.53 | 1.48 | 1.41 |
| 25 | R | 603 | CLA | C4D-ND | -2.53 | 1.34 | 1.37 |
| 25 | 2 | 307 | CLA | C3B-C2B | -2.53 | 1.36 | 1.40 |
| 25 | A | 829 | CLA | C3B-CAB | -2.53 | 1.42 | 1.47 |
| 25 | A | 805 | CLA | CMD-C2D | -2.53 | 1.45 | 1.50 |
| 25 | S | 315 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 33 | 6 | 608 | CHL | C4B-CHC | 2.53 | 1.48 | 1.41 |
| 25 | A | 839 | CLA | C3B-C2B | -2.53 | 1.36 | 1.40 |
| 25 | B | 818 | CLA | C3B-C2B | -2.53 | 1.36 | 1.40 |
| 25 | A | 842 | CLA | C3B-CAB | -2.53 | 1.42 | 1.47 |
| 33 | 4 | 304 | CHL | C1C-NC | -2.53 | 1.34 | 1.37 |
| 33 | 6 | 607 | CHL | C1C-NC | -2.53 | 1.34 | 1.37 |
| 25 | B | 827 | CLA | C3B-CAB | -2.53 | 1.42 | 1.47 |
| 25 | K | 204 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 25 | A | 832 | CLA | C3B-CAB | -2.53 | 1.42 | 1.47 |
| 25 | B | 815 | CLA | MG-ND | -2.53 | 2.00 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 7 | 301 | CLA | CMD-C2D | -2.53 | 1.45 | 1.50 |
| 25 | 4 | 309 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 28 | A | 846 | BCR | C1-C6 | -2.52 | 1.50 | 1.53 |
| 25 | A | 813 | CLA | CMD-C2D | -2.52 | 1.45 | 1.50 |
| 25 | S | 303 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 25 | B | 804 | CLA | CMD-C2D | -2.52 | 1.45 | 1.50 |
| 25 | 3 | 302 | CLA | C3B-C2B | -2.52 | 1.36 | 1.40 |
| 25 | B | 833 | CLA | MG-ND | -2.52 | 2.00 | 2.05 |
| 33 | P | 606 | CHL | C4B-CHC | 2.52 | 1.48 | 1.41 |
| 33 | P | 607 | CHL | MG-NA | -2.52 | 2.00 | 2.06 |
| 33 | R | 609 | CHL | C2-C3 | 2.52 | 1.39 | 1.33 |
| 34 | 5 | 318 | LUT | C1-C6 | -2.52 | 1.50 | 1.53 |
| 25 | 2 | 314 | CLA | C3B-C2B | -2.52 | 1.36 | 1.40 |
| 33 | Q | 606 | CHL | C4C-C3C | 2.52 | 1.49 | 1.45 |
| 25 | B | 824 | CLA | CMD-C2D | -2.52 | 1.45 | 1.50 |
| 25 | 4 | 313 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 25 | B | 804 | CLA | C3B-CAB | -2.52 | 1.42 | 1.47 |
| 33 | 4 | 322 | CHL | C1C-NC | -2.52 | 1.34 | 1.37 |
| 25 | 4 | 301 | CLA | C3B-C2B | -2.52 | 1.36 | 1.40 |
| 25 | B | 810 | CLA | C3B-CAB | -2.52 | 1.42 | 1.47 |
| 25 | A | 818 | CLA | CMD-C2D | -2.52 | 1.45 | 1.50 |
| 25 | A | 807 | CLA | C3B-CAB | -2.51 | 1.42 | 1.47 |
| 33 | U | 305 | CHL | C4B-CHC | 2.51 | 1.48 | 1.41 |
| 25 | B | 823 | CLA | MG-ND | -2.51 | 2.00 | 2.05 |
| 25 | B | 801 | CLA | CMC-C2C | -2.51 | 1.45 | 1.50 |
| 25 | B | 810 | CLA | CMD-C2D | -2.51 | 1.45 | 1.50 |
| 25 | 4 | 302 | CLA | C3B-C2B | -2.51 | 1.36 | 1.40 |
| 25 | P | 613 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 25 | B | 822 | CLA | CMD-C2D | -2.51 | 1.45 | 1.50 |
| 25 | B | 837 | CLA | C3B-C2B | -2.51 | 1.36 | 1.40 |
| 25 | B | 812 | CLA | CMC-C2C | -2.51 | 1.45 | 1.50 |
| 33 | 4 | 306 | CHL | MG-NA | -2.51 | 2.00 | 2.06 |
| 25 | 5 | 305 | CLA | C3B-C2B | -2.51 | 1.36 | 1.40 |
| 25 | S | 304 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 28 | G | 203 | BCR | C1-C6 | -2.51 | 1.50 | 1.53 |
| 25 | T | 611 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 33 | Q | 606 | CHL | C4B-CHC | 2.51 | 1.48 | 1.41 |
| 25 | R | 604 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 33 | P | 619 | CHL | MG-NA | -2.51 | 2.00 | 2.06 |
| 33 | U | 309 | CHL | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 25 | 6 | 612 | CLA | CMD-C2D | -2.50 | 1.45 | 1.50 |
| 25 | 8 | 314 | CLA | C3B-C2B | -2.50 | 1.36 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 815 | CLA | C3B-C2B | -2.50 | 1.36 | 1.40 |
| 25 | A | 804 | CLA | CMD-C2D | -2.50 | 1.45 | 1.50 |
| 25 | B | 801 | CLA | CMD-C2D | -2.50 | 1.45 | 1.50 |
| 33 | U | 308 | CHL | C4B-CHC | 2.50 | 1.47 | 1.41 |
| 25 | B | 823 | CLA | CMD-C2D | -2.50 | 1.45 | 1.50 |
| 25 | A | 816 | CLA | C3B-C2B | -2.50 | 1.36 | 1.40 |
| 25 | L | 206 | CLA | C3B-C2B | -2.50 | 1.36 | 1.40 |
| 25 | 6 | 605 | CLA | C1D-ND | 2.50 | 1.40 | 1.37 |
| 28 | B | 844 | BCR | C30-C25 | -2.50 | 1.50 | 1.53 |
| 33 | S | 306 | CHL | C4B-CHC | 2.50 | 1.47 | 1.41 |
| 25 | 1 | 609 | CLA | CMD-C2D | -2.50 | 1.45 | 1.50 |
| 33 | 4 | 314 | CHL | MG-NA | -2.49 | 2.00 | 2.06 |
| 25 | H | 202 | CLA | C3B-C2B | -2.49 | 1.36 | 1.40 |
| 25 | B | 825 | CLA | MG-ND | -2.49 | 2.00 | 2.05 |
| 33 | 6 | 617 | CHL | MG-NA | -2.49 | 2.00 | 2.06 |
| 33 | Q | 605 | CHL | C4B-CHC | 2.49 | 1.47 | 1.41 |
| 25 | B | 812 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 25 | 5 | 311 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 33 | S | 309 | CHL | C4B-CHC | 2.49 | 1.47 | 1.41 |
| 25 | A | 823 | CLA | C3B-C2B | -2.49 | 1.36 | 1.40 |
| 25 | P | 604 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 33 | Q | 607 | CHL | C4B-CHC | 2.49 | 1.47 | 1.41 |
| 28 | B | 844 | BCR | C1-C6 | -2.49 | 1.50 | 1.53 |
| 25 | 1 | 613 | CLA | C3B-C2B | -2.49 | 1.36 | 1.40 |
| 25 | 2 | 312 | CLA | C3B-C2B | -2.49 | 1.36 | 1.40 |
| 25 | A | 819 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 25 | 7 | 307 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 25 | B | 827 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 25 | 3 | 303 | CLA | CMC-C2C | -2.49 | 1.45 | 1.50 |
| 25 | R | 610 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 25 | 5 | 313 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 25 | B | 829 | CLA | MG-ND | -2.49 | 2.00 | 2.05 |
| 25 | B | 831 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 25 | 5 | 324 | CLA | C3B-CAB | -2.49 | 1.42 | 1.47 |
| 25 | Q | 618 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 25 | A | 839 | CLA | CMD-C2D | -2.49 | 1.45 | 1.50 |
| 25 | 4 | 308 | CLA | CMC-C2C | -2.49 | 1.45 | 1.50 |
| 25 | 5 | 316 | CLA | CMC-C2C | -2.49 | 1.45 | 1.50 |
| 25 | 2 | 307 | CLA | C3B-CAB | -2.49 | 1.42 | 1.47 |
| 25 | A | 840 | CLA | CMC-C2C | -2.49 | 1.45 | 1.50 |
| 33 | U | 307 | CHL | C4C-C3C | 2.49 | 1.49 | 1.45 |
| 25 | T | 603 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | a | 313 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 25 | B | 802 | CLA | C3B-CAB | -2.48 | 1.42 | 1.47 |
| 33 | R | 607 | CHL | MG-NA | -2.48 | 2.00 | 2.06 |
| 25 | A | 801 | CLA | CMD-C2D | -2.48 | 1.45 | 1.50 |
| 25 | A | 817 | CLA | C3B-CAB | -2.48 | 1.42 | 1.47 |
| 25 | B | 802 | CLA | CMC-C2C | -2.48 | 1.45 | 1.50 |
| 33 | R | 608 | CHL | C4C-C3C | 2.48 | 1.49 | 1.45 |
| 28 | A | 849 | BCR | C1-C6 | -2.48 | 1.50 | 1.53 |
| 25 | 7 | 309 | CLA | CMD-C2D | -2.48 | 1.45 | 1.50 |
| 25 | 7 | 309 | CLA | C3B-CAB | -2.48 | 1.42 | 1.47 |
| 25 | A | 807 | CLA | CMD-C2D | -2.48 | 1.45 | 1.50 |
| 25 | B | 818 | CLA | CMD-C2D | -2.48 | 1.45 | 1.50 |
| 33 | P | 622 | CHL | C4B-CHC | 2.48 | 1.47 | 1.41 |
| 33 | P | 605 | CHL | C4C-C3C | 2.48 | 1.49 | 1.45 |
| 25 | A | 826 | CLA | CMD-C2D | -2.48 | 1.45 | 1.50 |
| 33 | T | 604 | CHL | C4B-CHC | 2.48 | 1.47 | 1.41 |
| 25 | B | 838 | CLA | C3B-C2B | -2.48 | 1.36 | 1.40 |
| 25 | K | 201 | CLA | C3B-C2B | -2.48 | 1.36 | 1.40 |
| 25 | B | 835 | CLA | CMD-C2D | -2.48 | 1.45 | 1.50 |
| 25 | 5 | 306 | CLA | C3B-C2B | -2.48 | 1.36 | 1.40 |
| 25 | a | 308 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 25 | 4 | 311 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 25 | a | 306 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 25 | 3 | 307 | CLA | C3B-CAB | -2.48 | 1.42 | 1.47 |
| 25 | A | 825 | CLA | MG-ND | -2.48 | 2.00 | 2.05 |
| 25 | H | 205 | CLA | CMD-C2D | -2.48 | 1.45 | 1.50 |
| 25 | J | 103 | CLA | C3B-C2B | -2.48 | 1.36 | 1.40 |
| 25 | A | 853 | CLA | C3B-C2B | -2.48 | 1.36 | 1.40 |
| 33 | U | 306 | CHL | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 25 | T | 610 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 33 | Q | 605 | CHL | C1D-ND | -2.48 | 1.34 | 1.37 |
| 25 | 9 | 301 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 25 | a | 303 | CLA | C3B-C2B | -2.47 | 1.36 | 1.40 |
| 33 | 9 | 306 | CHL | C1C-NC | -2.47 | 1.34 | 1.37 |
| 25 | 3 | 307 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 25 | 2 | 304 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 25 | B | 814 | CLA | C3B-C2B | -2.47 | 1.36 | 1.40 |
| 33 | 3 | 306 | CHL | C3D-C2D | 2.47 | 1.45 | 1.39 |
| 25 | A | 820 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 25 | B | 816 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 33 | S | 308 | CHL | C4D-CHA | 2.47 | 1.47 | 1.38 |
| 33 | S | 309 | CHL | C4D-CHA | 2.47 | 1.47 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | U | 305 | CHL | C4C-C3C | 2.47 | 1.49 | 1.45 |
| 25 | P | 610 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 25 | A | 812 | CLA | C3B-CAB | -2.47 | 1.42 | 1.47 |
| 25 | A | 828 | CLA | C3B-CAB | -2.47 | 1.42 | 1.47 |
| 33 | 4 | 322 | CHL | MG-NA | -2.47 | 2.00 | 2.06 |
| 25 | 7 | 310 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 33 | P | 608 | CHL | C4B-CHC | 2.47 | 1.47 | 1.41 |
| 25 | S | 301 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 33 | Q | 606 | CHL | C4D-CHA | 2.47 | 1.47 | 1.38 |
| 33 | 4 | 305 | CHL | C4D-CHA | 2.47 | 1.47 | 1.38 |
| 33 | Q | 607 | CHL | C4C-C3C | 2.47 | 1.49 | 1.45 |
| 25 | B | 826 | CLA | C3B-CAB | -2.47 | 1.42 | 1.47 |
| 25 | 3 | 303 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 25 | B | 802 | CLA | MG-ND | -2.47 | 2.00 | 2.05 |
| 25 | 1 | 610 | CLA | CMD-C2D | -2.47 | 1.45 | 1.50 |
| 25 | A | 837 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 25 | 3 | 320 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 25 | A | 803 | CLA | C3B-CAB | -2.46 | 1.42 | 1.47 |
| 25 | 9 | 302 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 25 | A | 826 | CLA | MG-ND | -2.46 | 2.00 | 2.05 |
| 25 | A | 819 | CLA | CMC-C2C | -2.46 | 1.45 | 1.50 |
| 25 | B | 814 | CLA | CMC-C2C | -2.46 | 1.45 | 1.50 |
| 25 | L | 201 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 25 | 1 | 604 | CLA | C1D-ND | 2.46 | 1.40 | 1.37 |
| 25 | S | 311 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 25 | Q | 609 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 33 | T | 605 | CHL | C4B-CHC | 2.46 | 1.47 | 1.41 |
| 25 | B | 802 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 28 | J | 101 | BCR | C30-C25 | -2.46 | 1.50 | 1.53 |
| 25 | B | 803 | CLA | C3B-C2B | -2.46 | 1.37 | 1.40 |
| 25 | A | 851 | CLA | CMC-C2C | -2.46 | 1.45 | 1.50 |
| 25 | 8 | 303 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 25 | T | 609 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 28 | B | 842 | BCR | C1-C6 | -2.46 | 1.50 | 1.53 |
| 25 | 1 | 605 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 25 | L | 201 | CLA | C3B-CAB | -2.46 | 1.42 | 1.47 |
| 25 | A | 811 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 25 | A | 835 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 25 | A | 839 | CLA | CMC-C2C | -2.46 | 1.45 | 1.50 |
| 33 | P | 605 | CHL | C4D-CHA | 2.46 | 1.47 | 1.38 |
| 25 | B | 803 | CLA | C3B-CAB | -2.46 | 1.42 | 1.47 |
| 25 | A | 831 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | R | 608 | CHL | C4B-CHC | 2.46 | 1.47 | 1.41 |
| 25 | B | 806 | CLA | C3B-CAB | -2.46 | 1.42 | 1.47 |
| 25 | S | 312 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 25 | 5 | 305 | CLA | MG-ND | -2.45 | 2.00 | 2.05 |
| 33 | R | 605 | CHL | MG-NA | -2.45 | 2.00 | 2.06 |
| 25 | A | 833 | CLA | CMD-C2D | -2.45 | 1.45 | 1.50 |
| 25 | a | 310 | CLA | CMD-C2D | -2.45 | 1.45 | 1.50 |
| 25 | 1 | 610 | CLA | C3B-CAB | -2.45 | 1.42 | 1.47 |
| 25 | B | 808 | CLA | C3B-C2B | -2.45 | 1.37 | 1.40 |
| 25 | 6 | 610 | CLA | C3B-CAB | -2.45 | 1.42 | 1.47 |
| 25 | B | 834 | CLA | CMD-C2D | -2.45 | 1.45 | 1.50 |
| 25 | L | 206 | CLA | CMC-C2C | -2.45 | 1.45 | 1.50 |
| 25 | A | 815 | CLA | CMC-C2C | -2.45 | 1.45 | 1.50 |
| 33 | S | 307 | CHL | C4D-CHA | 2.45 | 1.47 | 1.38 |
| 25 | A | 812 | CLA | CMD-C2D | -2.45 | 1.45 | 1.50 |
| 25 | U | 302 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 25 | L | 205 | CLA | MG-ND | -2.45 | 2.00 | 2.05 |
| 25 | L | 209 | CLA | MG-ND | -2.45 | 2.00 | 2.05 |
| 25 | B | 805 | CLA | CMC-C2C | -2.44 | 1.45 | 1.50 |
| 25 | B | 820 | CLA | CMD-C2D | -2.44 | 1.45 | 1.50 |
| 25 | 3 | 304 | CLA | CMD-C2D | -2.44 | 1.45 | 1.50 |
| 33 | P | 608 | CHL | C4C-C3C | 2.44 | 1.49 | 1.45 |
| 25 | a | 308 | CLA | CMD-C2D | -2.44 | 1.45 | 1.50 |
| 33 | U | 307 | CHL | MG-NA | -2.44 | 2.00 | 2.06 |
| 33 | T | 605 | CHL | C4D-CHA | 2.44 | 1.47 | 1.38 |
| 25 | T | 602 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 25 | A | 842 | CLA | CMD-C2D | -2.44 | 1.45 | 1.50 |
| 25 | S | 314 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 25 | A | 818 | CLA | CMC-C2C | -2.44 | 1.45 | 1.50 |
| 33 | R | 601 | CHL | C1B-CHB | 2.44 | 1.47 | 1.41 |
| 33 | T | 601 | CHL | C1B-CHB | 2.44 | 1.47 | 1.41 |
| 33 | P | 605 | CHL | C4B-CHC | 2.44 | 1.47 | 1.41 |
| 25 | B | 807 | CLA | CMD-C2D | -2.44 | 1.45 | 1.50 |
| 33 | 4 | 304 | CHL | C4D-CHA | 2.44 | 1.47 | 1.38 |
| 33 | P | 601 | CHL | C1B-CHB | 2.43 | 1.47 | 1.41 |
| 33 | 9 | 306 | CHL | C4B-CHC | 2.43 | 1.47 | 1.41 |
| 25 | A | 825 | CLA | CMC-C2C | -2.43 | 1.45 | 1.50 |
| 25 | A | 840 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | U | 310 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 25 | A | 820 | CLA | CMC-C2C | -2.43 | 1.45 | 1.50 |
| 33 | Q | 601 | CHL | C1B-CHB | 2.43 | 1.47 | 1.41 |
| 34 | 9 | 313 | LUT | C1-C6 | -2.43 | 1.50 | 1.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 5 | 317 | CHL | C4B-CHC | 2.43 | 1.47 | 1.41 |
| 25 | B | 808 | CLA | MG-ND | -2.43 | 2.01 | 2.05 |
| 25 | a | 303 | CLA | MG-ND | -2.43 | 2.01 | 2.05 |
| 25 | A | 802 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | L | 205 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | 6 | 609 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | A | 810 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | H | 202 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | a | 304 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 33 | Q | 605 | CHL | C4C-C3C | 2.43 | 1.49 | 1.45 |
| 28 | 7 | 316 | BCR | C1-C6 | -2.43 | 1.50 | 1.53 |
| 25 | 9 | 303 | CLA | CMC-C2C | -2.43 | 1.45 | 1.50 |
| 25 | B | 807 | CLA | C3B-CAB | -2.43 | 1.43 | 1.47 |
| 33 | T | 605 | CHL | MG-NA | -2.43 | 2.00 | 2.06 |
| 25 | 7 | 311 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | 3 | 305 | CLA | C3B-CAB | -2.43 | 1.43 | 1.47 |
| 25 | 5 | 316 | CLA | C3B-CAB | -2.43 | 1.43 | 1.47 |
| 33 | 5 | 317 | CHL | C1C-NC | -2.43 | 1.34 | 1.37 |
| 25 | 5 | 303 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | B | 813 | CLA | C3B-CAB | -2.43 | 1.43 | 1.47 |
| 25 | B | 833 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 25 | 8 | 303 | CLA | MG-ND | -2.43 | 2.01 | 2.05 |
| 25 | 2 | 309 | CLA | CMD-C2D | -2.43 | 1.45 | 1.50 |
| 28 | L | 208 | BCR | C1-C6 | -2.43 | 1.50 | 1.53 |
| 33 | 4 | 305 | CHL | C1C-NC | -2.43 | 1.34 | 1.37 |
| 33 | T | 606 | CHL | C4C-C3C | 2.43 | 1.49 | 1.45 |
| 33 | S | 309 | CHL | MG-NA | -2.43 | 2.00 | 2.06 |
| 28 | A | 849 | BCR | C30-C25 | -2.43 | 1.50 | 1.53 |
| 25 | B | 805 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | S | 313 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 25 | 5 | 302 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | 7 | 301 | CLA | CMC-C2C | -2.42 | 1.45 | 1.50 |
| 33 | R | 605 | CHL | C4C-C3C | 2.42 | 1.49 | 1.45 |
| 25 | A | 838 | CLA | C3B-CAB | -2.42 | 1.43 | 1.47 |
| 25 | 6 | 611 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | B | 822 | CLA | C3B-CAB | -2.42 | 1.43 | 1.47 |
| 25 | A | 801 | CLA | CMC-C2C | -2.42 | 1.45 | 1.50 |
| 25 | R | 603 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 33 | 8 | 307 | CHL | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 33 | T | 604 | CHL | C4C-C3C | 2.42 | 1.49 | 1.45 |
| 33 | a | 305 | CHL | C1C-NC | -2.42 | 1.34 | 1.37 |
| 28 | F | 803 | BCR | C30-C25 | -2.42 | 1.50 | 1.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | S | 303 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | B | 849 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 25 | A | 822 | CLA | CMC-C2C | -2.42 | 1.45 | 1.50 |
| 25 | 9 | 305 | CLA | C3B-CAB | -2.42 | 1.43 | 1.47 |
| 33 | U | 308 | CHL | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 25 | B | 806 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | 3 | 308 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 25 | 8 | 314 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | B | 805 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 25 | A | 823 | CLA | MG-ND | -2.42 | 2.01 | 2.05 |
| 33 | T | 607 | CHL | C1B-CHB | 2.42 | 1.47 | 1.41 |
| 25 | B | 803 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | B | 804 | CLA | CMC-C2C | -2.42 | 1.45 | 1.50 |
| 25 | A | 851 | CLA | MG-ND | -2.42 | 2.01 | 2.05 |
| 25 | 6 | 616 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 25 | B | 811 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | 8 | 302 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |
| 25 | 5 | 306 | CLA | C3B-CAB | -2.41 | 1.43 | 1.47 |
| 25 | T | 612 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 33 | U | 308 | CHL | C4C-C3C | 2.41 | 1.49 | 1.45 |
| 25 | 3 | 301 | CLA | C3B-CAB | -2.41 | 1.43 | 1.47 |
| 25 | 7 | 303 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 25 | B | 825 | CLA | C3B-CAB | -2.41 | 1.43 | 1.47 |
| 25 | 2 | 303 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 34 | 8 | 317 | LUT | C1-C6 | -2.41 | 1.50 | 1.53 |
| 33 | 4 | 306 | CHL | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 25 | U | 311 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 28 | A | 854 | BCR | C1-C6 | -2.41 | 1.50 | 1.53 |
| 25 | A | 828 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 25 | S | 320 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 33 | Q | 608 | CHL | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 25 | B | 837 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 25 | 3 | 320 | CLA | C3B-CAB | -2.41 | 1.43 | 1.47 |
| 33 | 6 | 617 | CHL | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 33 | a | 305 | CHL | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 25 | 4 | 312 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 25 | P | 603 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 25 | 4 | 311 | CLA | C3B-C2B | -2.41 | 1.37 | 1.40 |
| 25 | B | 824 | CLA | C3B-CAB | -2.41 | 1.43 | 1.47 |
| 25 | A | 820 | CLA | MG-ND | -2.41 | 2.01 | 2.05 |
| 25 | A | 823 | CLA | CMD-C2D | -2.41 | 1.45 | 1.50 |
| 25 | A | 829 | CLA | CMC-C2C | -2.40 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | H | 203 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | 1 | 611 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | 8 | 304 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | A | 807 | CLA | CMC-C2C | -2.40 | 1.45 | 1.50 |
| 25 | A | 828 | CLA | CMC-C2C | -2.40 | 1.45 | 1.50 |
| 25 | B | 828 | CLA | CMD-C2D | -2.40 | 1.45 | 1.50 |
| 25 | Q | 610 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | 4 | 310 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | B | 807 | CLA | CMC-C2C | -2.40 | 1.45 | 1.50 |
| 33 | U | 307 | CHL | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 28 | L | 207 | BCR | C30-C25 | -2.40 | 1.50 | 1.53 |
| 25 | A | 809 | CLA | CMD-C2D | -2.40 | 1.45 | 1.50 |
| 33 | S | 310 | CHL | C2C-C1C | 2.40 | 1.49 | 1.44 |
| 25 | B | 830 | CLA | CMD-C2D | -2.40 | 1.45 | 1.50 |
| 25 | Q | 613 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 25 | S | 305 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 25 | B | 827 | CLA | MG-ND | -2.40 | 2.01 | 2.05 |
| 33 | P | 605 | CHL | CAA-C2A | -2.40 | 1.49 | 1.54 |
| 28 | A | 846 | BCR | C30-C25 | -2.40 | 1.50 | 1.53 |
| 25 | P | 602 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 25 | A | 830 | CLA | CMD-C2D | -2.40 | 1.45 | 1.50 |
| 25 | 9 | 303 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | A | 822 | CLA | C3B-CAB | -2.40 | 1.43 | 1.47 |
| 25 | A | 809 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | 5 | 302 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 25 | 3 | 320 | CLA | MG-ND | -2.40 | 2.01 | 2.05 |
| 25 | B | 835 | CLA | C3B-CAB | -2.40 | 1.43 | 1.47 |
| 25 | B | 809 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 33 | P | 609 | CHL | CHC-C1C | 2.40 | 1.41 | 1.35 |
| 25 | 5 | 303 | CLA | CMC-C2C | -2.39 | 1.45 | 1.50 |
| 33 | 5 | 308 | CHL | C4B-CHC | 2.39 | 1.47 | 1.41 |
| 25 | B | 823 | CLA | CMC-C2C | -2.39 | 1.45 | 1.50 |
| 34 | 4 | 315 | LUT | C1-C6 | -2.39 | 1.50 | 1.53 |
| 33 | T | 606 | CHL | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 25 | A | 829 | CLA | CMD-C2D | -2.39 | 1.45 | 1.50 |
| 33 | 6 | 606 | CHL | MG-NA | -2.39 | 2.00 | 2.06 |
| 33 | S | 310 | CHL | C4C-C3C | 2.39 | 1.49 | 1.45 |
| 25 | A | 802 | CLA | CMC-C2C | -2.39 | 1.45 | 1.50 |
| 25 | 3 | 301 | CLA | CMC-C2C | -2.39 | 1.45 | 1.50 |
| 33 | P | 606 | CHL | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 34 | 8 | 316 | LUT | C1-C6 | -2.39 | 1.50 | 1.53 |
| 33 | 6 | 617 | CHL | C4B-CHC | 2.39 | 1.47 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | K | 201 | CLA | CMD-C2D | -2.39 | 1.45 | 1.50 |
| 25 | 3 | 304 | CLA | CMC-C2C | -2.39 | 1.45 | 1.50 |
| 25 | A | 808 | CLA | CMD-C2D | -2.39 | 1.45 | 1.50 |
| 25 | 8 | 311 | CLA | CMD-C2D | -2.39 | 1.45 | 1.50 |
| 25 | S | 301 | CLA | C3B-C2B | -2.39 | 1.37 | 1.40 |
| 25 | L | 202 | CLA | C3B-CAB | -2.39 | 1.43 | 1.47 |
| 25 | U | 312 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 25 | R | 614 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 25 | A | 822 | CLA | MG-ND | -2.39 | 2.01 | 2.05 |
| 25 | L | 206 | CLA | MG-ND | -2.39 | 2.01 | 2.05 |
| 33 | 9 | 307 | CHL | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 33 | T | 604 | CHL | MG-NA | -2.38 | 2.00 | 2.06 |
| 25 | A | 853 | CLA | C3B-CAB | -2.38 | 1.43 | 1.47 |
| 25 | A | 822 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 33 | 9 | 306 | CHL | MG-NA | -2.38 | 2.00 | 2.06 |
| 25 | 3 | 313 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 33 | 6 | 607 | CHL | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 25 | 6 | 603 | CLA | CMC-C2C | -2.38 | 1.45 | 1.50 |
| 25 | R | 612 | CLA | C2-C3 | 2.38 | 1.38 | 1.33 |
| 25 | B | 825 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 25 | Q | 602 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 25 | A | 826 | CLA | CMC-C2C | -2.38 | 1.45 | 1.50 |
| 25 | B | 809 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 25 | B | 826 | CLA | MG-ND | -2.38 | 2.01 | 2.05 |
| 25 | B | 817 | CLA | CMC-C2C | -2.38 | 1.45 | 1.50 |
| 33 | 7 | 305 | CHL | C4B-CHC | 2.38 | 1.47 | 1.41 |
| 33 | R | 609 | CHL | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 25 | B | 824 | CLA | CMC-C2C | -2.38 | 1.45 | 1.50 |
| 33 | U | 309 | CHL | C1B-CHB | 2.38 | 1.47 | 1.41 |
| 25 | P | 612 | CLA | O2A-CGA | 2.38 | 1.40 | 1.33 |
| 25 | 1 | 603 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 25 | 7 | 308 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 25 | A | 834 | CLA | C3B-C2B | -2.38 | 1.37 | 1.40 |
| 33 | P | 622 | CHL | C4C-C3C | 2.38 | 1.49 | 1.45 |
| 25 | B | 838 | CLA | C3B-CAB | -2.38 | 1.43 | 1.47 |
| 33 | U | 309 | CHL | C2C-C1C | 2.38 | 1.49 | 1.44 |
| 25 | 9 | 303 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 25 | 9 | 304 | CLA | C3B-CAB | -2.38 | 1.43 | 1.47 |
| 25 | B | 811 | CLA | CMC-C2C | -2.38 | 1.45 | 1.50 |
| 25 | B | 836 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 25 | 6 | 614 | CLA | CMD-C2D | -2.38 | 1.45 | 1.50 |
| 30 | B | 848 | DGD | O3G-C1D | 2.37 | 1.44 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | Q | 612 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 25 | A | 817 | CLA | CMD-C2D | -2.37 | 1.45 | 1.50 |
| 25 | 4 | 301 | CLA | CMD-C2D | -2.37 | 1.45 | 1.50 |
| 25 | A | 824 | CLA | C3B-C2B | -2.37 | 1.37 | 1.40 |
| 25 | 1 | 604 | CLA | C3B-CAB | -2.37 | 1.43 | 1.47 |
| 25 | 3 | 303 | CLA | MG-ND | -2.37 | 2.01 | 2.05 |
| 25 | A | 809 | CLA | CMC-C2C | -2.37 | 1.45 | 1.50 |
| 25 | 1 | 612 | CLA | CMC-C2C | -2.37 | 1.45 | 1.50 |
| 25 | A | 827 | CLA | CMC-C2C | -2.37 | 1.45 | 1.50 |
| 25 | A | 833 | CLA | C3B-CAB | -2.37 | 1.43 | 1.47 |
| 33 | 1 | 606 | CHL | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 33 | S | 307 | CHL | C4C-C3C | 2.37 | 1.49 | 1.45 |
| 33 | 6 | 606 | CHL | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 25 | 5 | 309 | CLA | CMD-C2D | -2.37 | 1.45 | 1.50 |
| 25 | B | 814 | CLA | CMD-C2D | -2.37 | 1.45 | 1.50 |
| 25 | 5 | 303 | CLA | C3B-CAB | -2.37 | 1.43 | 1.47 |
| 25 | L | 206 | CLA | CMD-C2D | -2.37 | 1.45 | 1.50 |
| 25 | 1 | 609 | CLA | CMC-C2C | -2.37 | 1.45 | 1.50 |
| 25 | 8 | 303 | CLA | C3B-CAB | -2.37 | 1.43 | 1.47 |
| 25 | Q | 618 | CLA | C2A-C1A | 2.37 | 1.54 | 1.51 |
| 33 | 4 | 314 | CHL | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 25 | 8 | 302 | CLA | C3B-CAB | -2.37 | 1.43 | 1.47 |
| 33 | R | 606 | CHL | C4C-C3C | 2.37 | 1.49 | 1.45 |
| 25 | 1 | 608 | CLA | CMD-C2D | -2.36 | 1.45 | 1.50 |
| 25 | 5 | 303 | CLA | MG-ND | -2.36 | 2.01 | 2.05 |
| 25 | 6 | 610 | CLA | CMC-C2C | -2.36 | 1.45 | 1.50 |
| 25 | A | 809 | CLA | MG-ND | -2.36 | 2.01 | 2.05 |
| 25 | 8 | 312 | CLA | CMD-C2D | -2.36 | 1.45 | 1.50 |
| 25 | 3 | 304 | CLA | C3B-CAB | -2.36 | 1.43 | 1.47 |
| 25 | U | 304 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 25 | A | 816 | CLA | CMD-C2D | -2.36 | 1.45 | 1.50 |
| 25 | A | 833 | CLA | CMC-C2C | -2.36 | 1.45 | 1.50 |
| 25 | 3 | 308 | CLA | CMD-C2D | -2.36 | 1.45 | 1.50 |
| 25 | 7 | 302 | CLA | C3B-C2B | -2.36 | 1.37 | 1.40 |
| 25 | 1 | 607 | CLA | CMD-C2D | -2.36 | 1.45 | 1.50 |
| 25 | K | 203 | CLA | C3B-C2B | -2.36 | 1.37 | 1.40 |
| 33 | R | 608 | CHL | C4D-CHA | 2.36 | 1.46 | 1.38 |
| 25 | H | 201 | CLA | CMC-C2C | -2.36 | 1.45 | 1.50 |
| 33 | Q | 605 | CHL | MG-NA | -2.36 | 2.00 | 2.06 |
| 33 | 5 | 308 | CHL | MG-NA | -2.36 | 2.00 | 2.06 |
| 25 | Q | 604 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 25 | J | 103 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 8 | 313 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 25 | 6 | 611 | CLA | C3B-C2B | -2.35 | 1.37 | 1.40 |
| 33 | Q | 606 | CHL | C2C-C1C | 2.35 | 1.49 | 1.44 |
| 25 | P | 612 | CLA | C2-C3 | 2.35 | 1.38 | 1.33 |
| 33 | U | 309 | CHL | C4C-C3C | 2.35 | 1.49 | 1.45 |
| 25 | A | 817 | CLA | CMC-C2C | -2.35 | 1.45 | 1.50 |
| 25 | B | 826 | CLA | CMC-C2C | -2.35 | 1.45 | 1.50 |
| 34 | 3 | 316 | LUT | C22-C21 | -2.35 | 1.51 | 1.54 |
| 33 | 6 | 617 | CHL | C4C-C3C | 2.35 | 1.49 | 1.45 |
| 25 | 5 | 312 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 25 | 2 | 305 | CLA | C3B-C2B | -2.35 | 1.37 | 1.40 |
| 25 | R | 612 | CLA | O2A-CGA | 2.35 | 1.40 | 1.33 |
| 33 | 4 | 304 | CHL | C4B-CHC | 2.35 | 1.47 | 1.41 |
| 25 | A | 830 | CLA | CMC-C2C | -2.35 | 1.45 | 1.50 |
| 25 | 2 | 311 | CLA | C3B-C2B | -2.35 | 1.37 | 1.40 |
| 33 | Q | 607 | CHL | C4D-CHA | 2.35 | 1.46 | 1.38 |
| 25 | U | 303 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 25 | 7 | 306 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 25 | 8 | 312 | CLA | C3B-C2B | -2.35 | 1.37 | 1.40 |
| 25 | B | 822 | CLA | MG-ND | -2.35 | 2.01 | 2.05 |
| 25 | K | 201 | CLA | CMC-C2C | -2.35 | 1.45 | 1.50 |
| 25 | 3 | 310 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 25 | K | 202 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 25 | 2 | 308 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 25 | 6 | 613 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 25 | 7 | 313 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 34 | 2 | 316 | LUT | C1-C6 | -2.35 | 1.50 | 1.53 |
| 25 | B | 805 | CLA | MG-ND | -2.35 | 2.01 | 2.05 |
| 25 | A | 815 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 25 | 3 | 314 | CLA | C3B-CAB | -2.34 | 1.43 | 1.47 |
| 25 | B | 815 | CLA | CMC-C2C | -2.34 | 1.45 | 1.50 |
| 33 | 5 | 307 | CHL | C4B-CHC | 2.34 | 1.47 | 1.41 |
| 25 | 7 | 301 | CLA | MG-ND | -2.34 | 2.01 | 2.05 |
| 33 | P | 606 | CHL | C2C-C1C | 2.34 | 1.49 | 1.44 |
| 25 | B | 833 | CLA | C3B-CAB | -2.34 | 1.43 | 1.47 |
| 33 | P | 608 | CHL | C4D-CHA | 2.34 | 1.46 | 1.38 |
| 25 | 1 | 614 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 33 | 4 | 322 | CHL | C4B-CHC | 2.34 | 1.47 | 1.41 |
| 33 | 6 | 606 | CHL | C1C-NC | -2.34 | 1.34 | 1.37 |
| 25 | 7 | 303 | CLA | CMC-C2C | -2.34 | 1.45 | 1.50 |
| 25 | 8 | 305 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 25 | 3 | 301 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 7 | 302 | CLA | MG-ND | -2.34 | 2.01 | 2.05 |
| 25 | B | 816 | CLA | C3B-CAB | -2.34 | 1.43 | 1.47 |
| 25 | G | 202 | CLA | C3B-C2B | -2.34 | 1.37 | 1.40 |
| 28 | I | 201 | BCR | C1-C6 | -2.34 | 1.50 | 1.53 |
| 25 | B | 824 | CLA | MG-ND | -2.34 | 2.01 | 2.05 |
| 25 | B | 813 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 25 | 7 | 312 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 25 | 5 | 309 | CLA | CMC-C2C | -2.34 | 1.45 | 1.50 |
| 33 | P | 606 | CHL | C4C-C3C | 2.34 | 1.49 | 1.45 |
| 25 | B | 832 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 25 | A | 853 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 25 | 7 | 302 | CLA | CMC-C2C | -2.34 | 1.45 | 1.50 |
| 25 | B | 838 | CLA | CMC-C2C | -2.33 | 1.45 | 1.50 |
| 33 | R | 607 | CHL | C4D-CHA | 2.33 | 1.46 | 1.38 |
| 33 | P | 606 | CHL | MG-NA | -2.33 | 2.00 | 2.06 |
| 25 | O | 203 | CLA | CMC-C2C | -2.33 | 1.45 | 1.50 |
| 25 | U | 313 | CLA | CMB-C2B | -2.33 | 1.46 | 1.51 |
| 25 | A | 840 | CLA | C3B-CAB | -2.33 | 1.43 | 1.47 |
| 33 | U | 305 | CHL | MG-NA | -2.33 | 2.00 | 2.06 |
| 33 | U | 306 | CHL | C4C-C3C | 2.33 | 1.49 | 1.45 |
| 25 | 8 | 305 | CLA | C3B-CAB | -2.33 | 1.43 | 1.47 |
| 25 | A | 821 | CLA | CMC-C2C | -2.33 | 1.45 | 1.50 |
| 33 | 9 | 307 | CHL | C1C-NC | -2.33 | 1.34 | 1.37 |
| 25 | 8 | 308 | CLA | CMD-C2D | -2.33 | 1.45 | 1.50 |
| 25 | A | 807 | CLA | MG-ND | -2.33 | 2.01 | 2.05 |
| 25 | 3 | 308 | CLA | CMC-C2C | -2.33 | 1.45 | 1.50 |
| 25 | H | 203 | CLA | C3B-CAB | -2.33 | 1.43 | 1.47 |
| 33 | P | 607 | CHL | C4C-C3C | 2.33 | 1.49 | 1.45 |
| 25 | 8 | 304 | CLA | CMD-C2D | -2.33 | 1.45 | 1.50 |
| 25 | 4 | 301 | CLA | C3B-CAB | -2.33 | 1.43 | 1.47 |
| 33 | P | 607 | CHL | C4D-CHA | 2.32 | 1.46 | 1.38 |
| 25 | 6 | 605 | CLA | MG-ND | -2.32 | 2.01 | 2.05 |
| 25 | A | 838 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |
| 33 | S | 310 | CHL | C4D-CHA | 2.32 | 1.46 | 1.38 |
| 25 | B | 834 | CLA | C3B-CAB | -2.32 | 1.43 | 1.47 |
| 25 | 5 | 316 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |
| 25 | 7 | 309 | CLA | CMC-C2C | -2.32 | 1.45 | 1.50 |
| 25 | Q | 603 | CLA | CMB-C2B | -2.32 | 1.46 | 1.51 |
| 33 | 6 | 606 | CHL | C4B-CHC | 2.32 | 1.47 | 1.41 |
| 25 | B | 829 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |
| 33 | 4 | 314 | CHL | C4B-CHC | 2.32 | 1.47 | 1.41 |
| 25 | 9 | 304 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | P | 619 | CHL | C4C-C3C | 2.32 | 1.49 | 1.45 |
| 33 | P | 619 | CHL | C4D-CHA | 2.32 | 1.46 | 1.38 |
| 25 | A | 834 | CLA | CMD-C2D | -2.32 | 1.45 | 1.50 |
| 33 | Q | 605 | CHL | C2C-C1C | 2.32 | 1.49 | 1.44 |
| 25 | L | 201 | CLA | MG-ND | -2.32 | 2.01 | 2.05 |
| 25 | 3 | 314 | CLA | MG-ND | -2.32 | 2.01 | 2.05 |
| 25 | A | 819 | CLA | MG-ND | -2.32 | 2.01 | 2.05 |
| 25 | 8 | 310 | CLA | C3B-C2B | -2.32 | 1.37 | 1.40 |
| 25 | B | 812 | CLA | MG-ND | -2.32 | 2.01 | 2.05 |
| 25 | A | 827 | CLA | C3B-CAB | -2.32 | 1.43 | 1.47 |
| 25 | 1 | 611 | CLA | CMC-C2C | -2.32 | 1.45 | 1.50 |
| 33 | T | 605 | CHL | C4C-C3C | 2.32 | 1.49 | 1.45 |
| 25 | B | 835 | CLA | CMC-C2C | -2.32 | 1.45 | 1.50 |
| 25 | B | 809 | CLA | C3B-CAB | -2.31 | 1.43 | 1.47 |
| 33 | S | 309 | CHL | C4C-C3C | 2.31 | 1.49 | 1.45 |
| 25 | 5 | 315 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 25 | 8 | 308 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 25 | 8 | 309 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 25 | B | 837 | CLA | CMC-C2C | -2.31 | 1.45 | 1.50 |
| 25 | B | 830 | CLA | CMC-C2C | -2.31 | 1.45 | 1.50 |
| 25 | P | 612 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 25 | L | 202 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 25 | 8 | 306 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 33 | S | 309 | CHL | C2C-C1C | 2.31 | 1.49 | 1.44 |
| 33 | R | 606 | CHL | C4D-CHA | 2.31 | 1.46 | 1.38 |
| 25 | A | 804 | CLA | CMC-C2C | -2.31 | 1.45 | 1.50 |
| 25 | 8 | 313 | CLA | C3B-CAB | -2.31 | 1.43 | 1.47 |
| 25 | 7 | 307 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 25 | 9 | 308 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 25 | A | 824 | CLA | CMC-C2C | -2.31 | 1.45 | 1.50 |
| 33 | 7 | 305 | CHL | C1C-NC | -2.31 | 1.34 | 1.37 |
| 25 | 7 | 302 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 33 | S | 308 | CHL | MG-NA | -2.31 | 2.00 | 2.06 |
| 33 | S | 306 | CHL | C2C-C1C | 2.31 | 1.49 | 1.44 |
| 33 | S | 321 | CHL | C4C-C3C | 2.31 | 1.49 | 1.45 |
| 25 | 3 | 305 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 25 | 4 | 308 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 25 | B | 821 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 25 | B | 813 | CLA | CMC-C2C | -2.31 | 1.45 | 1.50 |
| 25 | 4 | 310 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 33 | R | 607 | CHL | C4C-C3C | 2.31 | 1.49 | 1.45 |
| 25 | B | 849 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 830 | CLA | C3B-CAB | -2.31 | 1.43 | 1.47 |
| 25 | 6 | 604 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 25 | a | 307 | CLA | CMD-C2D | -2.31 | 1.45 | 1.50 |
| 25 | A | 829 | CLA | MG-ND | -2.31 | 2.01 | 2.05 |
| 25 | L | 206 | CLA | C3B-CAB | -2.31 | 1.43 | 1.47 |
| 28 | B | 845 | BCR | C30-C25 | -2.30 | 1.50 | 1.53 |
| 25 | 2 | 314 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 25 | 8 | 315 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 33 | 5 | 308 | CHL | C4D-CHA | 2.30 | 1.46 | 1.38 |
| 25 | a | 301 | CLA | C3B-CAB | -2.30 | 1.43 | 1.47 |
| 25 | B | 825 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 25 | 4 | 309 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 25 | B | 819 | CLA | C3B-C2B | -2.30 | 1.37 | 1.40 |
| 25 | B | 817 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 25 | B | 818 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 25 | B | 833 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 25 | 6 | 609 | CLA | C3B-C2B | -2.30 | 1.37 | 1.40 |
| 25 | B | 814 | CLA | MG-ND | -2.30 | 2.01 | 2.05 |
| 25 | B | 808 | CLA | C3B-CAB | -2.30 | 1.43 | 1.47 |
| 25 | 5 | 304 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 25 | A | 833 | CLA | MG-ND | -2.30 | 2.01 | 2.05 |
| 25 | B | 834 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 25 | 3 | 308 | CLA | MG-ND | -2.30 | 2.01 | 2.05 |
| 25 | 4 | 301 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 25 | A | 813 | CLA | MG-ND | -2.30 | 2.01 | 2.05 |
| 33 | 6 | 607 | CHL | C4B-CHC | 2.30 | 1.47 | 1.41 |
| 25 | 5 | 315 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 33 | R | 606 | CHL | MG-NA | -2.30 | 2.00 | 2.06 |
| 25 | 5 | 305 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 28 | 3 | 318 | BCR | C30-C25 | -2.30 | 1.50 | 1.53 |
| 33 | U | 306 | CHL | MG-NA | -2.30 | 2.00 | 2.06 |
| 25 | J | 105 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 28 | B | 851 | BCR | C1-C6 | -2.30 | 1.50 | 1.53 |
| 25 | A | 851 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 25 | A | 806 | CLA | MG-ND | -2.30 | 2.01 | 2.05 |
| 25 | 3 | 314 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 25 | 7 | 306 | CLA | C3B-CAB | -2.30 | 1.43 | 1.47 |
| 25 | A | 832 | CLA | CMC-C2C | -2.30 | 1.45 | 1.50 |
| 25 | 9 | 305 | CLA | CMD-C2D | -2.30 | 1.45 | 1.50 |
| 25 | 8 | 309 | CLA | C3B-CAB | -2.29 | 1.43 | 1.47 |
| 25 | 8 | 310 | CLA | MG-ND | -2.29 | 2.01 | 2.05 |
| 33 | T | 607 | CHL | C2C-C1C | 2.29 | 1.49 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 816 | CLA | CMC-C2C | -2.29 | 1.45 | 1.50 |
| 33 | S | 302 | CHL | MG-NA | -2.29 | 2.00 | 2.06 |
| 25 | 9 | 311 | CLA | CMC-C2C | -2.29 | 1.45 | 1.50 |
| 33 | S | 308 | CHL | C2C-C1C | 2.29 | 1.49 | 1.44 |
| 25 | 6 | 603 | CLA | C3B-CAB | -2.29 | 1.43 | 1.47 |
| 25 | J | 103 | CLA | CMC-C2C | -2.29 | 1.45 | 1.50 |
| 25 | 6 | 612 | CLA | C3B-C2B | -2.29 | 1.37 | 1.40 |
| 25 | A | 812 | CLA | CMC-C2C | -2.29 | 1.45 | 1.50 |
| 25 | 7 | 303 | CLA | MG-ND | -2.29 | 2.01 | 2.05 |
| 33 | R | 605 | CHL | C2C-C1C | 2.29 | 1.49 | 1.44 |
| 25 | B | 803 | CLA | CMC-C2C | -2.29 | 1.45 | 1.50 |
| 25 | 2 | 310 | CLA | CMD-C2D | -2.29 | 1.45 | 1.50 |
| 25 | 2 | 312 | CLA | CMC-C2C | -2.29 | 1.45 | 1.50 |
| 25 | A | 803 | CLA | CMC-C2C | -2.29 | 1.45 | 1.50 |
| 25 | L | 202 | CLA | MG-ND | -2.29 | 2.01 | 2.05 |
| 25 | 1 | 602 | CLA | CMD-C2D | -2.29 | 1.46 | 1.50 |
| 25 | 6 | 604 | CLA | CMD-C2D | -2.29 | 1.46 | 1.50 |
| 25 | 2 | 303 | CLA | C3B-CAB | -2.29 | 1.43 | 1.47 |
| 25 | 7 | 304 | CLA | CMD-C2D | -2.29 | 1.46 | 1.50 |
| 33 | T | 605 | CHL | C2C-C1C | 2.29 | 1.49 | 1.44 |
| 33 | a | 305 | CHL | C1B-CHB | 2.29 | 1.47 | 1.41 |
| 33 | 1 | 601 | CHL | C4D-CHA | 2.29 | 1.46 | 1.38 |
| 25 | 7 | 301 | CLA | C3B-CAB | -2.29 | 1.43 | 1.47 |
| 34 | 5 | 322 | LUT | C22-C21 | -2.28 | 1.51 | 1.54 |
| 25 | 7 | 306 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 25 | 3 | 301 | CLA | MG-ND | -2.28 | 2.01 | 2.05 |
| 25 | 3 | 307 | CLA | MG-ND | -2.28 | 2.01 | 2.05 |
| 25 | R | 612 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 25 | 6 | 605 | CLA | C3B-C2B | -2.28 | 1.37 | 1.40 |
| 25 | F | 802 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 25 | A | 813 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 33 | 4 | 322 | CHL | C4D-CHA | 2.28 | 1.46 | 1.38 |
| 25 | 2 | 311 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 25 | B | 829 | CLA | C3B-CAB | -2.28 | 1.43 | 1.47 |
| 25 | B | 837 | CLA | C3B-CAB | -2.28 | 1.43 | 1.47 |
| 25 | 6 | 615 | CLA | C3B-C2B | -2.28 | 1.37 | 1.40 |
| 25 | 8 | 308 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 33 | 1 | 601 | CHL | C4B-CHC | 2.28 | 1.47 | 1.41 |
| 25 | 4 | 312 | CLA | C3B-C2B | -2.28 | 1.37 | 1.40 |
| 25 | 9 | 301 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 25 | a | 301 | CLA | CMD-C2D | -2.28 | 1.46 | 1.50 |
| 25 | A | 827 | CLA | MG-ND | -2.28 | 2.01 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | B | 819 | CLA | CMD-C2D | -2.28 | 1.46 | 1.50 |
| 25 | a | 303 | CLA | O2A-C1 | 2.28 | 1.52 | 1.46 |
| 25 | B | 810 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 25 | A | 823 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 25 | 3 | 313 | CLA | C3B-C2B | -2.28 | 1.37 | 1.40 |
| 25 | 5 | 314 | CLA | CMD-C2D | -2.28 | 1.46 | 1.50 |
| 25 | 2 | 303 | CLA | CMC-C2C | -2.28 | 1.46 | 1.50 |
| 25 | 5 | 309 | CLA | MG-ND | -2.28 | 2.01 | 2.05 |
| 25 | A | 804 | CLA | MG-ND | -2.28 | 2.01 | 2.05 |
| 25 | A | 821 | CLA | MG-ND | -2.28 | 2.01 | 2.05 |
| 33 | 7 | 305 | CHL | C4D-CHA | 2.27 | 1.46 | 1.38 |
| 25 | A | 805 | CLA | MG-ND | -2.27 | 2.01 | 2.05 |
| 33 | S | 302 | CHL | C2C-C1C | 2.27 | 1.49 | 1.44 |
| 25 | 6 | 620 | CLA | MG-ND | -2.27 | 2.01 | 2.05 |
| 25 | 7 | 312 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 34 | 1 | 615 | LUT | C22-C21 | -2.27 | 1.51 | 1.54 |
| 33 | R | 607 | CHL | C1B-CHB | 2.27 | 1.47 | 1.41 |
| 25 | 3 | 314 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 25 | 8 | 312 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 33 | S | 321 | CHL | C4D-CHA | 2.27 | 1.46 | 1.38 |
| 25 | H | 201 | CLA | CMD-C2D | -2.27 | 1.46 | 1.50 |
| 25 | L | 201 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 25 | 2 | 302 | CLA | C3B-CAB | -2.27 | 1.43 | 1.47 |
| 25 | K | 203 | CLA | CMD-C2D | -2.27 | 1.46 | 1.50 |
| 25 | B | 836 | CLA | C3B-CAB | -2.27 | 1.43 | 1.47 |
| 25 | 8 | 310 | CLA | CMD-C2D | -2.27 | 1.46 | 1.50 |
| 25 | R | 613 | CLA | CMB-C2B | -2.27 | 1.46 | 1.51 |
| 25 | A | 839 | CLA | MG-ND | -2.27 | 2.01 | 2.05 |
| 25 | 5 | 319 | CLA | C3B-CAB | -2.27 | 1.43 | 1.47 |
| 25 | 7 | 304 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 25 | 7 | 309 | CLA | MG-ND | -2.27 | 2.01 | 2.05 |
| 25 | J | 105 | CLA | C3B-C2B | -2.27 | 1.37 | 1.40 |
| 25 | 5 | 311 | CLA | MG-ND | -2.27 | 2.01 | 2.05 |
| 25 | 4 | 303 | CLA | C3B-CAB | -2.27 | 1.43 | 1.47 |
| 25 | H | 205 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 25 | 2 | 312 | CLA | CMD-C2D | -2.27 | 1.46 | 1.50 |
| 25 | 7 | 308 | CLA | CMC-C2C | -2.27 | 1.46 | 1.50 |
| 25 | 6 | 620 | CLA | CMD-C2D | -2.27 | 1.46 | 1.50 |
| 25 | A | 804 | CLA | C3B-C2B | -2.27 | 1.37 | 1.40 |
| 25 | 1 | 609 | CLA | C3B-C2B | -2.26 | 1.37 | 1.40 |
| 25 | 2 | 310 | CLA | C3B-C2B | -2.26 | 1.37 | 1.40 |
| 33 | 5 | 317 | CHL | C4D-CHA | 2.26 | 1.46 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | A | 820 | CLA | C3B-CAB | -2.26 | 1.43 | 1.47 |
| 25 | B | 815 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 25 | 5 | 305 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 25 | 7 | 307 | CLA | MG-ND | -2.26 | 2.01 | 2.05 |
| 25 | B | 838 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 25 | A | 810 | CLA | CMC-C2C | -2.26 | 1.46 | 1.50 |
| 33 | R | 608 | CHL | C2C-C1C | 2.26 | 1.49 | 1.44 |
| 25 | B | 805 | CLA | C3B-CAB | -2.26 | 1.43 | 1.47 |
| 25 | 2 | 312 | CLA | C3B-CAB | -2.26 | 1.43 | 1.47 |
| 33 | U | 308 | CHL | C2C-C1C | 2.26 | 1.49 | 1.44 |
| 25 | 5 | 319 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 25 | A | 851 | CLA | C3B-CAB | -2.26 | 1.43 | 1.47 |
| 25 | 3 | 309 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 25 | 7 | 307 | CLA | CMC-C2C | -2.26 | 1.46 | 1.50 |
| 25 | 8 | 310 | CLA | C3B-CAB | -2.26 | 1.43 | 1.47 |
| 25 | B | 832 | CLA | CMC-C2C | -2.26 | 1.46 | 1.50 |
| 25 | 7 | 304 | CLA | MG-ND | -2.26 | 2.01 | 2.05 |
| 33 | Q | 608 | CHL | MG-NC | 2.26 | 2.11 | 2.06 |
| 33 | 4 | 314 | CHL | C4C-C3C | 2.26 | 1.48 | 1.45 |
| 25 | A | 836 | CLA | C3B-CAB | -2.26 | 1.43 | 1.47 |
| 25 | A | 853 | CLA | CMC-C2C | -2.26 | 1.46 | 1.50 |
| 25 | 3 | 302 | CLA | CMC-C2C | -2.26 | 1.46 | 1.50 |
| 25 | 4 | 307 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 25 | 5 | 315 | CLA | CMC-C2C | -2.26 | 1.46 | 1.50 |
| 25 | 6 | 620 | CLA | C3B-CAB | -2.25 | 1.43 | 1.47 |
| 33 | 8 | 307 | CHL | C3D-C4D | -2.25 | 1.39 | 1.44 |
| 25 | L | 205 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | 6 | 616 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 33 | S | 310 | CHL | C1B-CHB | 2.25 | 1.47 | 1.41 |
| 25 | A | 809 | CLA | C3B-CAB | -2.25 | 1.43 | 1.47 |
| 25 | 5 | 312 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | 2 | 311 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 25 | 6 | 615 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 25 | a | 313 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 25 | B | 823 | CLA | C3B-CAB | -2.25 | 1.43 | 1.47 |
| 28 | A | 847 | BCR | C30-C25 | -2.25 | 1.50 | 1.53 |
| 25 | a | 302 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | A | 830 | CLA | MG-ND | -2.25 | 2.01 | 2.05 |
| 25 | A | 842 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | B | 816 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | B | 803 | CLA | MG-ND | -2.25 | 2.01 | 2.05 |
| 25 | A | 801 | CLA | C3B-CAB | -2.25 | 1.43 | 1.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 9 | 310 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 25 | K | 202 | CLA | C3B-CAB | -2.25 | 1.43 | 1.47 |
| 33 | S | 308 | CHL | C4C-C3C | 2.25 | 1.48 | 1.45 |
| 25 | 9 | 309 | CLA | C3B-C2B | -2.25 | 1.37 | 1.40 |
| 33 | 6 | 608 | CHL | C1C-NC | -2.25 | 1.34 | 1.37 |
| 25 | B | 809 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | 7 | 310 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | 5 | 324 | CLA | MG-ND | -2.25 | 2.01 | 2.05 |
| 25 | 2 | 308 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | 5 | 310 | CLA | CMC-C2C | -2.25 | 1.46 | 1.50 |
| 25 | B | 813 | CLA | MG-ND | -2.25 | 2.01 | 2.05 |
| 34 | 2 | 315 | LUT | C1-C6 | -2.25 | 1.50 | 1.53 |
| 25 | B | 837 | CLA | MG-ND | -2.25 | 2.01 | 2.05 |
| 25 | 6 | 609 | CLA | MG-ND | -2.25 | 2.01 | 2.05 |
| 25 | 8 | 308 | CLA | C3B-CAB | -2.25 | 1.43 | 1.47 |
| 25 | R | 612 | CLA | MG-ND | -2.25 | 2.01 | 2.05 |
| 25 | B | 817 | CLA | C3B-CAB | -2.24 | 1.43 | 1.47 |
| 33 | 1 | 606 | CHL | C1B-CHB | 2.24 | 1.47 | 1.41 |
| 25 | K | 204 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 33 | 8 | 307 | CHL | C1C-NC | -2.24 | 1.34 | 1.37 |
| 25 | B | 806 | CLA | CMC-C2C | -2.24 | 1.46 | 1.50 |
| 25 | A | 811 | CLA | CMC-C2C | -2.24 | 1.46 | 1.50 |
| 25 | K | 202 | CLA | C3B-C2B | -2.24 | 1.37 | 1.40 |
| 33 | 4 | 306 | CHL | C4B-CHC | 2.24 | 1.47 | 1.41 |
| 25 | a | 302 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 33 | S | 307 | CHL | C1B-CHB | 2.24 | 1.47 | 1.41 |
| 25 | 5 | 324 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 25 | A | 840 | CLA | MG-ND | -2.24 | 2.01 | 2.05 |
| 25 | A | 803 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 33 | P | 607 | CHL | C1B-CHB | 2.24 | 1.47 | 1.41 |
| 25 | 4 | 302 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 25 | 5 | 311 | CLA | CMC-C2C | -2.24 | 1.46 | 1.50 |
| 25 | B | 827 | CLA | CMC-C2C | -2.24 | 1.46 | 1.50 |
| 25 | 1 | 608 | CLA | CMC-C2C | -2.24 | 1.46 | 1.50 |
| 33 | 9 | 306 | CHL | C4D-CHA | 2.24 | 1.46 | 1.38 |
| 25 | 3 | 311 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 25 | a | 301 | CLA | CMC-C2C | -2.24 | 1.46 | 1.50 |
| 25 | B | 817 | CLA | MG-ND | -2.24 | 2.01 | 2.05 |
| 25 | F | 802 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 25 | 8 | 304 | CLA | C3B-CAB | -2.24 | 1.43 | 1.47 |
| 25 | 4 | 311 | CLA | CMD-C2D | -2.24 | 1.46 | 1.50 |
| 25 | A | 821 | CLA | C3B-CAB | -2.24 | 1.43 | 1.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 6 | 603 | CLA | MG-ND | -2.24 | 2.01 | 2.05 |
| 25 | 6 | 601 | CLA | CMC-C2C | -2.24 | 1.46 | 1.50 |
| 28 | B | 851 | BCR | C30-C25 | -2.23 | 1.50 | 1.53 |
| 25 | A | 814 | CLA | MG-ND | -2.23 | 2.01 | 2.05 |
| 33 | R | 609 | CHL | MG-NC | 2.23 | 2.11 | 2.06 |
| 25 | S | 301 | CLA | MG-ND | -2.23 | 2.01 | 2.05 |
| 28 | B | 841 | BCR | C1-C6 | -2.23 | 1.50 | 1.53 |
| 25 | 3 | 307 | CLA | CMC-C2C | -2.23 | 1.46 | 1.50 |
| 34 | 1 | 616 | LUT | C22-C21 | -2.23 | 1.51 | 1.54 |
| 25 | P | 612 | CLA | MG-ND | -2.23 | 2.01 | 2.05 |
| 25 | 6 | 610 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |
| 25 | B | 849 | CLA | C3B-CAB | -2.23 | 1.43 | 1.47 |
| 25 | B | 819 | CLA | CMC-C2C | -2.23 | 1.46 | 1.50 |
| 25 | 2 | 306 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |
| 25 | H | 203 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |
| 25 | 2 | 302 | CLA | CMC-C2C | -2.23 | 1.46 | 1.50 |
| 25 | 3 | 305 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |
| 25 | K | 201 | CLA | MG-ND | -2.23 | 2.01 | 2.05 |
| 25 | A | 824 | CLA | C3B-CAB | -2.23 | 1.43 | 1.47 |
| 33 | P | 619 | CHL | C1B-CHB | 2.23 | 1.47 | 1.41 |
| 25 | a | 309 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |
| 25 | 1 | 602 | CLA | C3B-CAB | -2.23 | 1.43 | 1.47 |
| 25 | 6 | 616 | CLA | C3B-CAB | -2.23 | 1.43 | 1.47 |
| 25 | A | 836 | CLA | CMC-C2C | -2.23 | 1.46 | 1.50 |
| 33 | P | 609 | CHL | MG-NC | 2.23 | 2.11 | 2.06 |
| 25 | R | 612 | CLA | C4B-NB | 2.23 | 1.37 | 1.35 |
| 25 | 7 | 311 | CLA | C3B-CAB | -2.22 | 1.43 | 1.47 |
| 25 | 4 | 313 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 25 | H | 205 | CLA | MG-ND | -2.22 | 2.01 | 2.05 |
| 25 | a | 311 | CLA | CMC-C2C | -2.22 | 1.46 | 1.50 |
| 25 | 5 | 313 | CLA | C1D-C2D | 2.22 | 1.49 | 1.45 |
| 33 | 3 | 306 | CHL | C3D-C4D | -2.22 | 1.39 | 1.44 |
| 28 | J | 106 | BCR | C1-C6 | -2.22 | 1.50 | 1.53 |
| 33 | P | 608 | CHL | C2C-C1C | 2.22 | 1.49 | 1.44 |
| 25 | A | 824 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 33 | T | 604 | CHL | C2C-C1C | 2.22 | 1.49 | 1.44 |
| 25 | A | 801 | CLA | C3B-C2B | -2.22 | 1.37 | 1.40 |
| 25 | 1 | 602 | CLA | CMC-C2C | -2.22 | 1.46 | 1.50 |
| 25 | 9 | 309 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 25 | 4 | 303 | CLA | C3B-C2B | -2.22 | 1.37 | 1.40 |
| 25 | A | 808 | CLA | CMC-C2C | -2.22 | 1.46 | 1.50 |
| 25 | 2 | 308 | CLA | MG-ND | -2.22 | 2.01 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 1 | 605 | CLA | CMC-C2C | -2.22 | 1.46 | 1.50 |
| 25 | A | 831 | CLA | C3B-CAB | -2.22 | 1.43 | 1.47 |
| 25 | B | 819 | CLA | C3B-CAB | -2.22 | 1.43 | 1.47 |
| 25 | 7 | 313 | CLA | C3B-C2B | -2.22 | 1.37 | 1.40 |
| 25 | H | 202 | CLA | CMC-C2C | -2.22 | 1.46 | 1.50 |
| 25 | B | 832 | CLA | MG-ND | -2.22 | 2.01 | 2.05 |
| 25 | B | 810 | CLA | MG-ND | -2.22 | 2.01 | 2.05 |
| 33 | Q | 606 | CHL | MG-NA | -2.22 | 2.01 | 2.06 |
| 25 | A | 801 | CLA | MG-ND | -2.22 | 2.01 | 2.05 |
| 28 | B | 845 | BCR | C21-C22 | -2.22 | 1.32 | 1.35 |
| 25 | B | 836 | CLA | CMC-C2C | -2.22 | 1.46 | 1.50 |
| 25 | 6 | 623 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 25 | a | 304 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 33 | Q | 606 | CHL | C1B-CHB | 2.22 | 1.47 | 1.41 |
| 25 | 8 | 309 | CLA | C3B-C2B | -2.21 | 1.37 | 1.40 |
| 25 | A | 810 | CLA | MG-ND | -2.21 | 2.01 | 2.05 |
| 25 | B | 819 | CLA | MG-ND | -2.21 | 2.01 | 2.05 |
| 25 | B | 811 | CLA | MG-ND | -2.21 | 2.01 | 2.05 |
| 25 | 7 | 310 | CLA | MG-ND | -2.21 | 2.01 | 2.05 |
| 25 | 8 | 304 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 25 | B | 849 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 25 | A | 823 | CLA | C3B-CAB | -2.21 | 1.43 | 1.47 |
| 25 | 8 | 313 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 25 | A | 826 | CLA | C3B-CAB | -2.21 | 1.43 | 1.47 |
| 33 | 4 | 304 | CHL | C1B-CHB | 2.21 | 1.47 | 1.41 |
| 28 | B | 843 | BCR | C30-C25 | -2.21 | 1.50 | 1.53 |
| 25 | A | 805 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 25 | 8 | 305 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 25 | 5 | 313 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 25 | 6 | 614 | CLA | C3B-CAB | -2.21 | 1.43 | 1.47 |
| 25 | A | 831 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 25 | 1 | 603 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 33 | 1 | 606 | CHL | C2C-C1C | 2.21 | 1.49 | 1.44 |
| 25 | O | 201 | CLA | C3B-C2B | -2.21 | 1.37 | 1.40 |
| 25 | a | 306 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 33 | Q | 601 | CHL | C2C-C1C | 2.21 | 1.49 | 1.44 |
| 33 | R | 601 | CHL | C1C-NC | -2.21 | 1.34 | 1.37 |
| 25 | 6 | 603 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 25 | B | 814 | CLA | C3B-CAB | -2.21 | 1.43 | 1.47 |
| 25 | 7 | 304 | CLA | C3B-CAB | -2.21 | 1.43 | 1.47 |
| 33 | U | 306 | CHL | C2C-C1C | 2.20 | 1.49 | 1.44 |
| 25 | 1 | 613 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 7 | 310 | CLA | C3B-CAB | -2.20 | 1.43 | 1.47 |
| 25 | A | 834 | CLA | C3B-CAB | -2.20 | 1.43 | 1.47 |
| 25 | A | 837 | CLA | C3B-CAB | -2.20 | 1.43 | 1.47 |
| 33 | U | 307 | CHL | C1B-CHB | 2.20 | 1.47 | 1.41 |
| 25 | 5 | 304 | CLA | MG-ND | -2.20 | 2.01 | 2.05 |
| 34 | 8 | 317 | LUT | C22-C21 | -2.20 | 1.52 | 1.54 |
| 25 | A | 816 | CLA | C3B-CAB | -2.20 | 1.43 | 1.47 |
| 25 | 6 | 620 | CLA | C3B-C2B | -2.20 | 1.37 | 1.40 |
| 25 | 3 | 320 | CLA | CMC-C2C | -2.20 | 1.46 | 1.50 |
| 25 | 1 | 603 | CLA | C3B-C2B | -2.20 | 1.37 | 1.40 |
| 25 | 1 | 607 | CLA | CMC-C2C | -2.20 | 1.46 | 1.50 |
| 25 | A | 837 | CLA | CMC-C2C | -2.20 | 1.46 | 1.50 |
| 25 | 3 | 311 | CLA | CMC-C2C | -2.20 | 1.46 | 1.50 |
| 25 | H | 201 | CLA | C3B-CAB | -2.20 | 1.43 | 1.47 |
| 25 | B | 849 | CLA | MG-ND | -2.20 | 2.01 | 2.05 |
| 33 | T | 606 | CHL | C2C-C1C | 2.20 | 1.49 | 1.44 |
| 25 | B | 821 | CLA | C3B-CAB | -2.20 | 1.43 | 1.47 |
| 33 | Q | 607 | CHL | C2C-C1C | 2.20 | 1.49 | 1.44 |
| 25 | 1 | 610 | CLA | MG-ND | -2.20 | 2.01 | 2.05 |
| 25 | B | 832 | CLA | C3B-CAB | -2.20 | 1.43 | 1.47 |
| 25 | B | 820 | CLA | C3B-CAB | -2.19 | 1.43 | 1.47 |
| 25 | 4 | 308 | CLA | C3B-CAB | -2.19 | 1.43 | 1.47 |
| 25 | A | 834 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 25 | H | 203 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 25 | L | 209 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 33 | 5 | 307 | CHL | C4D-CHA | 2.19 | 1.46 | 1.38 |
| 25 | 9 | 305 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 25 | B | 822 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 25 | 2 | 308 | CLA | C3B-C2B | -2.19 | 1.37 | 1.40 |
| 33 | 4 | 306 | CHL | C2C-C1C | 2.19 | 1.49 | 1.44 |
| 25 | G | 202 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 25 | 3 | 313 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 25 | 3 | 313 | CLA | MG-ND | -2.19 | 2.01 | 2.05 |
| 33 | Q | 601 | CHL | C1C-NC | -2.19 | 1.34 | 1.37 |
| 25 | J | 103 | CLA | C3B-CAB | -2.19 | 1.43 | 1.47 |
| 25 | 6 | 612 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 25 | 2 | 309 | CLA | MG-ND | -2.19 | 2.01 | 2.05 |
| 33 | T | 601 | CHL | C1C-NC | -2.19 | 1.34 | 1.37 |
| 25 | B | 828 | CLA | C3B-CAB | -2.19 | 1.43 | 1.47 |
| 25 | 1 | 614 | CLA | MG-ND | -2.19 | 2.01 | 2.05 |
| 28 | J | 106 | BCR | C30-C25 | -2.19 | 1.50 | 1.53 |
| 33 | P | 601 | CHL | C2C-C1C | 2.19 | 1.49 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 7 | 313 | CLA | MG-ND | -2.19 | 2.01 | 2.05 |
| 25 | 2 | 306 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 33 | P | 601 | CHL | C1C-NC | -2.19 | 1.34 | 1.37 |
| 25 | H | 202 | CLA | C3B-CAB | -2.19 | 1.43 | 1.47 |
| 25 | B | 820 | CLA | MG-ND | -2.19 | 2.01 | 2.05 |
| 25 | 6 | 623 | CLA | C3B-CAB | -2.19 | 1.43 | 1.47 |
| 25 | 3 | 310 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | 6 | 615 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | 6 | 601 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 25 | 9 | 308 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | 1 | 613 | CLA | C3B-CAB | -2.18 | 1.43 | 1.47 |
| 25 | A | 853 | CLA | MG-ND | -2.18 | 2.01 | 2.05 |
| 25 | 3 | 312 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | B | 831 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | L | 202 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 33 | U | 305 | CHL | C2C-C1C | 2.18 | 1.49 | 1.44 |
| 28 | I | 201 | BCR | C30-C25 | -2.18 | 1.50 | 1.53 |
| 25 | 4 | 311 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | 9 | 304 | CLA | MG-ND | -2.18 | 2.01 | 2.05 |
| 25 | B | 831 | CLA | C3B-CAB | -2.18 | 1.43 | 1.47 |
| 25 | 2 | 311 | CLA | C3B-CAB | -2.18 | 1.43 | 1.47 |
| 25 | 2 | 305 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 33 | S | 321 | CHL | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 25 | 1 | 613 | CLA | MG-ND | -2.18 | 2.01 | 2.05 |
| 33 | 9 | 307 | CHL | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 25 | 7 | 312 | CLA | C3B-CAB | -2.18 | 1.43 | 1.47 |
| 33 | T | 607 | CHL | C1C-NC | -2.18 | 1.34 | 1.37 |
| 25 | 3 | 310 | CLA | C3B-C2B | -2.18 | 1.37 | 1.40 |
| 33 | 5 | 308 | CHL | C2C-C1C | 2.18 | 1.49 | 1.44 |
| 25 | 2 | 314 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 25 | 4 | 310 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | 5 | 304 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | 8 | 315 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | B | 820 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 25 | 3 | 312 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 28 | F | 801 | BCR | C30-C25 | -2.18 | 1.50 | 1.53 |
| 25 | A | 820 | CLA | CAC-C3C | -2.18 | 1.45 | 1.51 |
| 25 | 6 | 620 | CLA | CMC-C2C | -2.17 | 1.46 | 1.50 |
| 25 | a | 311 | CLA | CMD-C2D | -2.17 | 1.46 | 1.50 |
| 25 | 8 | 311 | CLA | MG-ND | -2.17 | 2.01 | 2.05 |
| 25 | A | 839 | CLA | C3B-CAB | -2.17 | 1.43 | 1.47 |
| 25 | O | 202 | CLA | CMC-C2C | -2.17 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 4 | 309 | CLA | MG-ND | -2.17 | 2.01 | 2.05 |
| 25 | B | 829 | CLA | C3B-C2B | -2.17 | 1.37 | 1.40 |
| 25 | 2 | 305 | CLA | CMC-C2C | -2.17 | 1.46 | 1.50 |
| 25 | 3 | 303 | CLA | C3B-CAB | -2.17 | 1.43 | 1.47 |
| 25 | 9 | 311 | CLA | C3B-CAB | -2.17 | 1.43 | 1.47 |
| 34 | a | 314 | LUT | C1-C6 | -2.17 | 1.50 | 1.53 |
| 25 | J | 105 | CLA | C3B-CAB | -2.17 | 1.43 | 1.47 |
| 25 | 6 | 623 | CLA | C3B-C2B | -2.17 | 1.37 | 1.40 |
| 28 | O | 204 | BCR | C1-C6 | -2.17 | 1.50 | 1.53 |
| 33 | 3 | 306 | CHL | C4B-CHC | 2.17 | 1.47 | 1.41 |
| 25 | 5 | 315 | CLA | C3B-CAB | -2.17 | 1.43 | 1.47 |
| 25 | B | 817 | CLA | C3B-C2B | -2.17 | 1.37 | 1.40 |
| 25 | a | 311 | CLA | C3B-C2B | -2.17 | 1.37 | 1.40 |
| 33 | 1 | 606 | CHL | C1C-NC | -2.17 | 1.34 | 1.37 |
| 25 | 4 | 307 | CLA | C3B-CAB | -2.17 | 1.43 | 1.47 |
| 25 | 7 | 311 | CLA | CMC-C2C | -2.17 | 1.46 | 1.50 |
| 25 | P | 612 | CLA | C4B-NB | 2.17 | 1.37 | 1.35 |
| 25 | F | 802 | CLA | C3B-CAB | -2.17 | 1.43 | 1.47 |
| 33 | 4 | 322 | CHL | C4C-C3C | 2.17 | 1.48 | 1.45 |
| 25 | 7 | 308 | CLA | MG-ND | -2.17 | 2.01 | 2.05 |
| 28 | L | 207 | BCR | C1-C6 | -2.16 | 1.50 | 1.53 |
| 33 | R | 601 | CHL | C2C-C1C | 2.16 | 1.49 | 1.44 |
| 25 | 5 | 305 | CLA | C3B-CAB | -2.16 | 1.43 | 1.47 |
| 25 | 2 | 302 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 25 | 5 | 302 | CLA | CMC-C2C | -2.16 | 1.46 | 1.50 |
| 25 | 6 | 613 | CLA | CMC-C2C | -2.16 | 1.46 | 1.50 |
| 25 | 2 | 304 | CLA | MG-ND | -2.16 | 2.01 | 2.05 |
| 25 | 2 | 313 | CLA | CMC-C2C | -2.16 | 1.46 | 1.50 |
| 25 | T | 609 | CLA | C3B-CAB | -2.16 | 1.43 | 1.47 |
| 25 | 2 | 309 | CLA | C3B-CAB | -2.16 | 1.43 | 1.47 |
| 25 | 2 | 313 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 33 | R | 605 | CHL | C1D-ND | -2.16 | 1.35 | 1.37 |
| 25 | Q | 610 | CLA | C3B-CAB | -2.16 | 1.43 | 1.47 |
| 25 | 7 | 307 | CLA | C3B-CAB | -2.16 | 1.43 | 1.47 |
| 33 | 6 | 617 | CHL | C2C-C1C | 2.16 | 1.49 | 1.44 |
| 25 | U | 311 | CLA | CMC-C2C | -2.16 | 1.46 | 1.50 |
| 25 | B | 836 | CLA | MG-ND | -2.16 | 2.01 | 2.05 |
| 25 | 8 | 304 | CLA | MG-ND | -2.16 | 2.01 | 2.05 |
| 25 | 7 | 302 | CLA | C3B-CAB | -2.16 | 1.43 | 1.47 |
| 25 | 4 | 303 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 25 | 4 | 308 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 25 | 9 | 303 | CLA | MG-ND | -2.16 | 2.01 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 33 | 4 | 305 | CHL | C1B-CHB | 2.16 | 1.47 | 1.41 |
| 25 | 1 | 614 | CLA | C3B-CAB | -2.15 | 1.43 | 1.47 |
| 25 | Q | 613 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 25 | 8 | 306 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 25 | A | 802 | CLA | C3B-C2B | -2.15 | 1.37 | 1.40 |
| 25 | B | 834 | CLA | MG-ND | -2.15 | 2.01 | 2.05 |
| 25 | A | 838 | CLA | MG-ND | -2.15 | 2.01 | 2.05 |
| 25 | B | 821 | CLA | C3B-C2B | -2.15 | 1.37 | 1.40 |
| 25 | A | 811 | CLA | C3B-CAB | -2.15 | 1.43 | 1.47 |
| 25 | 2 | 307 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 30 | B | 848 | DGD | O5D-C1E | 2.15 | 1.43 | 1.40 |
| 25 | S | 304 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 25 | O | 202 | CLA | C3B-CAB | -2.15 | 1.43 | 1.47 |
| 33 | P | 605 | CHL | C2C-C1C | 2.15 | 1.49 | 1.44 |
| 33 | 6 | 606 | CHL | C1B-CHB | 2.15 | 1.47 | 1.41 |
| 25 | B | 821 | CLA | MG-ND | -2.15 | 2.01 | 2.05 |
| 25 | 5 | 306 | CLA | MG-ND | -2.15 | 2.01 | 2.05 |
| 25 | a | 306 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 25 | 6 | 604 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 33 | 5 | 308 | CHL | C1C-NC | -2.15 | 1.34 | 1.37 |
| 25 | a | 312 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 25 | A | 808 | CLA | C3B-CAB | -2.15 | 1.43 | 1.47 |
| 33 | 4 | 305 | CHL | C2C-C1C | 2.15 | 1.49 | 1.44 |
| 33 | 4 | 305 | CHL | C4C-C3C | 2.15 | 1.48 | 1.45 |
| 25 | B | 829 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 25 | 2 | 304 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 25 | G | 201 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 33 | U | 307 | CHL | C2C-C1C | 2.15 | 1.49 | 1.44 |
| 25 | A | 832 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | 8 | 310 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 25 | G | 201 | CLA | C3B-C2B | -2.14 | 1.37 | 1.40 |
| 25 | A | 804 | CLA | C3B-CAB | -2.14 | 1.43 | 1.47 |
| 25 | 3 | 311 | CLA | C3B-CAB | -2.14 | 1.43 | 1.47 |
| 28 | 3 | 317 | BCR | C1-C6 | -2.14 | 1.50 | 1.53 |
| 25 | F | 802 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | B | 830 | CLA | C3B-CAB | -2.14 | 1.43 | 1.47 |
| 25 | 4 | 301 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | B | 809 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | 3 | 310 | CLA | C3B-CAB | -2.14 | 1.43 | 1.47 |
| 25 | K | 202 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 33 | R | 606 | CHL | C2C-C1C | 2.14 | 1.49 | 1.44 |
| 25 | 8 | 311 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 35 | Q | 616 | XAT | O24-C25 | -2.14 | 1.43 | 1.46 |
| 25 | 4 | 308 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | 6 | 614 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 25 | S | 303 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 25 | B | 804 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | 9 | 308 | CLA | C3B-CAB | -2.14 | 1.43 | 1.47 |
| 25 | G | 202 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 25 | 6 | 616 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 25 | 6 | 614 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | 5 | 312 | CLA | C3B-CAB | -2.14 | 1.43 | 1.47 |
| 25 | A | 828 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | 7 | 306 | CLA | MG-ND | -2.14 | 2.01 | 2.05 |
| 25 | a | 303 | CLA | O1A-CGA | 2.13 | 1.28 | 1.22 |
| 25 | B | 806 | CLA | MG-ND | -2.13 | 2.01 | 2.05 |
| 25 | 3 | 302 | CLA | MG-ND | -2.13 | 2.01 | 2.05 |
| 25 | 1 | 610 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 25 | A | 815 | CLA | C3B-CAB | -2.13 | 1.43 | 1.47 |
| 33 | 6 | 608 | CHL | C4D-CHA | 2.13 | 1.46 | 1.38 |
| 25 | 5 | 310 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 34 | 3 | 315 | LUT | C22-C21 | -2.13 | 1.52 | 1.54 |
| 25 | 7 | 313 | CLA | C3B-CAB | -2.13 | 1.43 | 1.47 |
| 25 | A | 837 | CLA | MG-ND | -2.13 | 2.01 | 2.05 |
| 25 | a | 312 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 28 | 3 | 317 | BCR | C30-C25 | -2.13 | 1.50 | 1.53 |
| 25 | 8 | 302 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 25 | B | 828 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 25 | K | 203 | CLA | MG-ND | -2.13 | 2.01 | 2.05 |
| 33 | 6 | 608 | CHL | C2C-C1C | 2.13 | 1.49 | 1.44 |
| 25 | A | 812 | CLA | MG-ND | -2.13 | 2.01 | 2.05 |
| 28 | A | 848 | BCR | C1-C6 | -2.13 | 1.50 | 1.53 |
| 25 | 5 | 311 | CLA | C3B-C2B | -2.13 | 1.37 | 1.40 |
| 25 | B | 805 | CLA | CAC-C3C | -2.13 | 1.45 | 1.51 |
| 25 | 1 | 609 | CLA | CAC-C3C | -2.13 | 1.45 | 1.51 |
| 33 | S | 321 | CHL | C1C-NC | -2.13 | 1.34 | 1.37 |
| 25 | A | 807 | CLA | CAC-C3C | -2.13 | 1.45 | 1.51 |
| 33 | P | 607 | CHL | C2C-C1C | 2.13 | 1.49 | 1.44 |
| 34 | 9 | 312 | LUT | C22-C21 | -2.12 | 1.52 | 1.54 |
| 25 | B | 831 | CLA | MG-ND | -2.12 | 2.01 | 2.05 |
| 25 | 9 | 311 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 28 | B | 843 | BCR | C1-C6 | -2.12 | 1.50 | 1.53 |
| 33 | S | 306 | CHL | MG-NA | -2.12 | 2.01 | 2.06 |
| 25 | A | 802 | CLA | CAA-C2A | -2.12 | 1.50 | 1.54 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | B | 811 | CLA | C4B-CHC | -2.12 | 1.35 | 1.41 |
| 25 | R | 611 | CLA | CMB-C2B | -2.12 | 1.47 | 1.51 |
| 25 | 1 | 614 | CLA | CMC-C2C | -2.12 | 1.46 | 1.50 |
| 25 | 8 | 308 | CLA | MG-ND | -2.12 | 2.01 | 2.05 |
| 33 | 8 | 307 | CHL | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 33 | P | 619 | CHL | C2C-C1C | 2.12 | 1.49 | 1.44 |
| 25 | 3 | 309 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 25 | 4 | 311 | CLA | C3B-CAB | -2.12 | 1.43 | 1.47 |
| 25 | 8 | 306 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 34 | Q | 615 | LUT | C1-C6 | -2.12 | 1.50 | 1.53 |
| 25 | 6 | 604 | CLA | MG-ND | -2.12 | 2.01 | 2.05 |
| 25 | 2 | 304 | CLA | C3B-CAB | -2.12 | 1.43 | 1.47 |
| 25 | A | 831 | CLA | MG-ND | -2.12 | 2.01 | 2.05 |
| 25 | R | 610 | CLA | CMC-C2C | -2.12 | 1.46 | 1.50 |
| 33 | 9 | 306 | CHL | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 25 | A | 834 | CLA | MG-ND | -2.12 | 2.01 | 2.05 |
| 25 | B | 818 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |
| 25 | J | 103 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |
| 25 | S | 315 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 28 | 4 | 321 | BCR | C1-C6 | -2.11 | 1.50 | 1.53 |
| 25 | 3 | 305 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 25 | 6 | 623 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 33 | P | 605 | CHL | C1C-NC | -2.11 | 1.34 | 1.37 |
| 25 | O | 202 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |
| 25 | A | 838 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 25 | a | 313 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 25 | 5 | 302 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |
| 25 | 2 | 309 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 25 | 8 | 309 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 25 | a | 308 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 25 | 5 | 314 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 33 | S | 302 | CHL | C4C-C3C | 2.11 | 1.48 | 1.45 |
| 25 | a | 304 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 25 | A | 842 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |
| 25 | 8 | 305 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |
| 25 | 6 | 611 | CLA | C3B-CAB | -2.11 | 1.43 | 1.47 |
| 25 | O | 201 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 25 | B | 828 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |
| 25 | P | 611 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 25 | 9 | 310 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 25 | 8 | 306 | CLA | C3B-CAB | -2.11 | 1.43 | 1.47 |
| 25 | A | 824 | CLA | MG-ND | -2.11 | 2.01 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 9 | 309 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 33 | R | 607 | CHL | C2C-C1C | 2.10 | 1.49 | 1.44 |
| 25 | S | 315 | CLA | C3B-C2B | -2.10 | 1.37 | 1.40 |
| 25 | 2 | 307 | CLA | MG-ND | -2.10 | 2.01 | 2.05 |
| 25 | 5 | 316 | CLA | MG-ND | -2.10 | 2.01 | 2.05 |
| 25 | K | 201 | CLA | C3B-CAB | -2.10 | 1.43 | 1.47 |
| 25 | 9 | 303 | CLA | C3B-CAB | -2.10 | 1.43 | 1.47 |
| 25 | 7 | 313 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 34 | 4 | 316 | LUT | C1-C6 | -2.10 | 1.50 | 1.53 |
| 25 | 5 | 303 | CLA | CAC-C3C | -2.10 | 1.45 | 1.51 |
| 25 | a | 307 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 25 | 8 | 314 | CLA | MG-ND | -2.10 | 2.01 | 2.05 |
| 25 | 1 | 613 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 25 | 3 | 313 | CLA | C3B-CAB | -2.10 | 1.43 | 1.47 |
| 25 | Q | 611 | CLA | C3B-C2B | -2.10 | 1.37 | 1.40 |
| 25 | 7 | 312 | CLA | C3B-C2B | -2.10 | 1.37 | 1.40 |
| 25 | 1 | 608 | CLA | MG-ND | -2.10 | 2.01 | 2.05 |
| 25 | S | 312 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 33 | S | 302 | CHL | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 25 | 3 | 308 | CLA | C3B-CAB | -2.10 | 1.43 | 1.47 |
| 28 | A | 847 | BCR | C21-C22 | -2.10 | 1.33 | 1.35 |
| 25 | 6 | 601 | CLA | C3B-CAB | -2.10 | 1.43 | 1.47 |
| 25 | K | 202 | CLA | MG-ND | -2.09 | 2.01 | 2.05 |
| 25 | 3 | 312 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 33 | P | 606 | CHL | C1B-CHB | 2.09 | 1.46 | 1.41 |
| 28 | L | 208 | BCR | C30-C25 | -2.09 | 1.50 | 1.53 |
| 34 | 6 | 622 | LUT | C22-C21 | -2.09 | 1.52 | 1.54 |
| 25 | S | 320 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 28 | 3 | 319 | BCR | C30-C25 | -2.09 | 1.50 | 1.53 |
| 25 | 4 | 312 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 33 | 3 | 306 | CHL | C4D-CHA | 2.09 | 1.45 | 1.38 |
| 33 | T | 601 | CHL | C2C-C1C | 2.09 | 1.49 | 1.44 |
| 25 | 1 | 603 | CLA | MG-ND | -2.09 | 2.01 | 2.05 |
| 25 | 5 | 314 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 33 | S | 308 | CHL | C1B-CHB | 2.09 | 1.46 | 1.41 |
| 25 | 5 | 312 | CLA | C3B-C2B | -2.09 | 1.37 | 1.40 |
| 25 | 2 | 314 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 25 | O | 201 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 25 | 5 | 311 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 25 | B | 818 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 25 | G | 202 | CLA | C3B-CAB | -2.09 | 1.43 | 1.47 |
| 33 | R | 609 | CHL | C1B-NB | 2.08 | 1.37 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | B | 838 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 28 | 6 | 621 | BCR | C30-C25 | -2.08 | 1.50 | 1.53 |
| 25 | 2 | 310 | CLA | C3B-CAB | -2.08 | 1.43 | 1.47 |
| 25 | J | 105 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 25 | 9 | 309 | CLA | C3B-CAB | -2.08 | 1.43 | 1.47 |
| 25 | 2 | 302 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 35 | P | 623 | XAT | C22-C21 | -2.08 | 1.51 | 1.54 |
| 25 | Q | 618 | CLA | C3D-C4D | 2.08 | 1.48 | 1.44 |
| 25 | H | 203 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | 4 | 303 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | 8 | 302 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | K | 203 | CLA | C3B-CAB | -2.08 | 1.43 | 1.47 |
| 25 | 2 | 311 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 28 | O | 205 | BCR | C1-C6 | -2.08 | 1.50 | 1.53 |
| 25 | a | 302 | CLA | C3B-C2B | -2.08 | 1.37 | 1.40 |
| 25 | 5 | 319 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | T | 610 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 25 | J | 105 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | 8 | 313 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | Q | 611 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 25 | B | 816 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | A | 815 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | 5 | 310 | CLA | MG-ND | -2.08 | 2.01 | 2.05 |
| 25 | S | 301 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 25 | B | 801 | CLA | MG-ND | -2.07 | 2.01 | 2.05 |
| 25 | 8 | 314 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 25 | 2 | 314 | CLA | MG-ND | -2.07 | 2.01 | 2.05 |
| 33 | R | 606 | CHL | C1C-NC | -2.07 | 1.34 | 1.37 |
| 25 | 1 | 607 | CLA | C3B-CAB | -2.07 | 1.43 | 1.47 |
| 25 | A | 820 | CLA | C4B-CHC | -2.07 | 1.35 | 1.41 |
| 25 | 4 | 307 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 33 | S | 321 | CHL | C2C-C1C | 2.07 | 1.49 | 1.44 |
| 25 | 6 | 601 | CLA | MG-ND | -2.07 | 2.01 | 2.05 |
| 33 | U | 306 | CHL | C1B-CHB | 2.07 | 1.46 | 1.41 |
| 25 | 8 | 314 | CLA | C3B-CAB | -2.07 | 1.43 | 1.47 |
| 33 | 6 | 607 | CHL | C4C-C3C | 2.07 | 1.48 | 1.45 |
| 25 | O | 201 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 25 | 4 | 302 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 25 | 3 | 309 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 25 | 2 | 313 | CLA | C3B-C2B | -2.07 | 1.37 | 1.40 |
| 25 | 8 | 303 | CLA | CAC-C3C | -2.07 | 1.45 | 1.51 |
| 25 | 1 | 609 | CLA | C1A-CHA | -2.07 | 1.34 | 1.43 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 9 | 304 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 25 | K | 204 | CLA | MG-ND | -2.07 | 2.01 | 2.05 |
| 25 | 7 | 312 | CLA | MG-ND | -2.07 | 2.01 | 2.05 |
| 25 | 1 | 614 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 25 | 1 | 602 | CLA | MG-ND | -2.06 | 2.01 | 2.05 |
| 25 | K | 205 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 25 | P | 603 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 25 | K | 205 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 25 | O | 202 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 25 | B | 807 | CLA | MG-ND | -2.06 | 2.01 | 2.05 |
| 25 | 9 | 302 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 25 | 8 | 315 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 25 | 5 | 313 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 25 | B | 835 | CLA | MG-ND | -2.06 | 2.01 | 2.05 |
| 25 | 8 | 315 | CLA | MG-ND | -2.06 | 2.01 | 2.05 |
| 33 | a | 305 | CHL | C2C-C1C | 2.06 | 1.49 | 1.44 |
| 33 | 5 | 307 | CHL | C3D-C4D | -2.06 | 1.39 | 1.44 |
| 33 | 9 | 306 | CHL | C2C-C1C | 2.06 | 1.49 | 1.44 |
| 25 | 1 | 612 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 25 | G | 201 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 33 | 4 | 306 | CHL | C1B-CHB | 2.06 | 1.46 | 1.41 |
| 33 | S | 309 | CHL | C1B-CHB | 2.06 | 1.46 | 1.41 |
| 25 | 3 | 309 | CLA | MG-ND | -2.06 | 2.01 | 2.05 |
| 33 | 7 | 305 | CHL | C4C-C3C | 2.06 | 1.48 | 1.45 |
| 25 | 1 | 609 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 25 | H | 205 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 25 | B | 820 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 25 | L | 205 | CLA | C4B-CHC | -2.06 | 1.35 | 1.41 |
| 33 | Q | 608 | CHL | O1D-CGD | 2.06 | 1.26 | 1.21 |
| 25 | 2 | 308 | CLA | C3B-CAB | -2.05 | 1.43 | 1.47 |
| 25 | U | 313 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 33 | Q | 608 | CHL | C1B-NB | 2.05 | 1.37 | 1.35 |
| 25 | 1 | 603 | CLA | C3B-CAB | -2.05 | 1.43 | 1.47 |
| 33 | 6 | 608 | CHL | C1B-CHB | 2.05 | 1.46 | 1.41 |
| 25 | A | 802 | CLA | MG-ND | -2.05 | 2.01 | 2.05 |
| 25 | 5 | 313 | CLA | C4B-CHC | -2.05 | 1.35 | 1.41 |
| 33 | 5 | 307 | CHL | C4C-C3C | 2.05 | 1.48 | 1.45 |
| 25 | a | 310 | CLA | C3B-C2B | -2.05 | 1.37 | 1.40 |
| 33 | 5 | 317 | CHL | C2C-C1C | 2.05 | 1.49 | 1.44 |
| 25 | 3 | 309 | CLA | C3B-CAB | -2.05 | 1.43 | 1.47 |
| 28 | 5 | 323 | BCR | C1-C6 | -2.05 | 1.51 | 1.53 |
| 33 | Q | 607 | CHL | C1C-NC | -2.05 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | Q | 603 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 33 | T | 605 | CHL | C1C-NC | -2.05 | 1.34 | 1.37 |
| 25 | H | 201 | CLA | C3B-C2B | -2.05 | 1.37 | 1.40 |
| 25 | 5 | 306 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 33 | a | 305 | CHL | C4C-C3C | 2.04 | 1.48 | 1.45 |
| 33 | 9 | 306 | CHL | C3D-C4D | -2.04 | 1.39 | 1.44 |
| 25 | K | 203 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 25 | a | 310 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 25 | 9 | 310 | CLA | C3B-CAB | -2.04 | 1.43 | 1.47 |
| 25 | L | 209 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 34 | 9 | 312 | LUT | C1-C6 | -2.04 | 1.51 | 1.53 |
| 25 | a | 307 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 33 | 9 | 307 | CHL | C4C-C3C | 2.04 | 1.48 | 1.45 |
| 25 | 5 | 314 | CLA | MG-ND | -2.03 | 2.01 | 2.05 |
| 33 | R | 605 | CHL | CMC-C2C | 2.03 | 1.49 | 1.45 |
| 34 | 4 | 316 | LUT | C22-C21 | -2.03 | 1.52 | 1.54 |
| 25 | Q | 613 | CLA | C3B-CAB | -2.03 | 1.43 | 1.47 |
| 33 | U | 309 | CHL | C1C-NC | -2.03 | 1.34 | 1.37 |
| 25 | 9 | 301 | CLA | MG-ND | -2.03 | 2.01 | 2.05 |
| 33 | 7 | 305 | CHL | C2C-C1C | 2.03 | 1.48 | 1.44 |
| 25 | 4 | 313 | CLA | C3B-CAB | -2.03 | 1.43 | 1.47 |
| 28 | O | 204 | BCR | C30-C25 | -2.03 | 1.51 | 1.53 |
| 25 | a | 303 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 33 | 1 | 606 | CHL | C4C-C3C | 2.03 | 1.48 | 1.45 |
| 34 | 7 | 315 | LUT | C22-C21 | -2.03 | 1.52 | 1.54 |
| 25 | Q | 602 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 25 | 3 | 305 | CLA | MG-ND | -2.03 | 2.01 | 2.05 |
| 25 | 1 | 611 | CLA | C3B-CAB | -2.03 | 1.43 | 1.47 |
| 25 | 2 | 306 | CLA | C3B-CAB | -2.03 | 1.43 | 1.47 |
| 25 | P | 604 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 25 | 4 | 303 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 25 | 8 | 315 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 25 | A | 818 | CLA | C3B-CAB | -2.03 | 1.43 | 1.47 |
| 33 | P | 607 | CHL | C1C-NC | -2.03 | 1.34 | 1.37 |
| 25 | 3 | 304 | CLA | MG-ND | -2.03 | 2.01 | 2.05 |
| 25 | 3 | 310 | CLA | MG-ND | -2.03 | 2.01 | 2.05 |
| 28 | 5 | 320 | BCR | C1-C6 | -2.03 | 1.51 | 1.53 |
| 25 | P | 610 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 32 | 4 | 320 | LMG | O1-C1 | 2.03 | 1.43 | 1.40 |
| 25 | 8 | 311 | CLA | C3B-CAB | -2.03 | 1.43 | 1.47 |
| 33 | 4 | 314 | CHL | C1C-NC | -2.03 | 1.34 | 1.37 |
| 25 | 7 | 311 | CLA | MG-ND | -2.03 | 2.01 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | Q | 612 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 25 | T | 602 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 25 | 3 | 320 | CLA | CAC-C3C | -2.03 | 1.45 | 1.51 |
| 33 | R | 609 | CHL | O1D-CGD | 2.03 | 1.26 | 1.21 |
| 33 | P | 609 | CHL | O1D-CGD | 2.03 | 1.26 | 1.21 |
| 25 | S | 315 | CLA | C3B-CAB | -2.02 | 1.43 | 1.47 |
| 33 | S | 302 | CHL | C1C-NC | -2.02 | 1.34 | 1.37 |
| 33 | T | 605 | CHL | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 25 | S | 315 | CLA | MG-ND | -2.02 | 2.01 | 2.05 |
| 25 | B | 815 | CLA | C4B-CHC | -2.02 | 1.35 | 1.41 |
| 25 | P | 604 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 25 | 6 | 611 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 33 | 5 | 308 | CHL | C3A-C2A | -2.02 | 1.48 | 1.54 |
| 25 | 2 | 303 | CLA | MG-ND | -2.02 | 2.01 | 2.05 |
| 25 | 4 | 310 | CLA | MG-ND | -2.02 | 2.01 | 2.05 |
| 33 | R | 606 | CHL | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 25 | B | 830 | CLA | MG-ND | -2.02 | 2.01 | 2.05 |
| 25 | 6 | 615 | CLA | MG-ND | -2.02 | 2.01 | 2.05 |
| 25 | U | 311 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 25 | 8 | 311 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 25 | Q | 604 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 25 | a | 311 | CLA | C3B-CAB | -2.02 | 1.43 | 1.47 |
| 33 | P | 608 | CHL | C1C-NC | -2.02 | 1.34 | 1.37 |
| 25 | U | 302 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 28 | A | 845 | BCR | C1-C6 | -2.02 | 1.51 | 1.53 |
| 25 | Q | 618 | CLA | C3B-CAB | -2.02 | 1.43 | 1.47 |
| 25 | R | 604 | CLA | C3C-C2C | 2.02 | 1.41 | 1.36 |
| 25 | 3 | 312 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 33 | P | 619 | CHL | C1C-NC | -2.02 | 1.34 | 1.37 |
| 25 | S | 305 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 25 | 5 | 305 | CLA | C4B-CHC | -2.02 | 1.35 | 1.41 |
| 25 | S | 313 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 33 | U | 308 | CHL | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 33 | R | 607 | CHL | C1C-NC | -2.02 | 1.34 | 1.37 |
| 25 | 1 | 611 | CLA | MG-ND | -2.02 | 2.01 | 2.05 |
| 25 | S | 311 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 25 | a | 302 | CLA | C3B-CAB | -2.02 | 1.43 | 1.47 |
| 33 | Q | 605 | CHL | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 32 | 7 | 319 | LMG | O1-C1 | 2.01 | 1.43 | 1.40 |
| 25 | H | 201 | CLA | MG-ND | -2.01 | 2.01 | 2.05 |
| 25 | 1 | 604 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 30 | B | 846 | DGD | O2G-C2G | -2.01 | 1.41 | 1.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25 | 2 | 310 | CLA | MG-ND | -2.01 | 2.01 | 2.05 |
| 25 | 8 | 308 | CLA | C4B-CHC | -2.01 | 1.35 | 1.41 |
| 25 | 8 | 312 | CLA | C3B-CAB | -2.01 | 1.43 | 1.47 |
| 25 | 9 | 310 | CLA | C3B-C2B | -2.01 | 1.37 | 1.40 |
| 25 | S | 314 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 25 | G | 201 | CLA | MG-ND | -2.01 | 2.01 | 2.05 |
| 34 | 5 | 318 | LUT | C22-C21 | -2.01 | 1.52 | 1.54 |
| 34 | a | 314 | LUT | C22-C21 | -2.01 | 1.52 | 1.54 |
| 27 | A | 844 | LHG | O7-C5 | -2.01 | 1.41 | 1.46 |
| 25 | 5 | 310 | CLA | CAC-C3C | -2.01 | 1.46 | 1.51 |
| 25 | T | 609 | CLA | C3B-C2B | -2.01 | 1.37 | 1.40 |
| 33 | T | 604 | CHL | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 25 | B | 816 | CLA | CAC-C3C | -2.01 | 1.46 | 1.51 |
| 25 | 9 | 302 | CLA | C3B-CAB | -2.01 | 1.43 | 1.47 |
| 28 | 8 | 318 | BCR | C30-C25 | -2.01 | 1.51 | 1.53 |
| 33 | P | 608 | CHL | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 33 | Q | 608 | CHL | C3B-CAB | -2.01 | 1.43 | 1.47 |
| 25 | A | 836 | CLA | MG-ND | -2.01 | 2.01 | 2.05 |
| 25 | 1 | 612 | CLA | C3D-C4D | 2.01 | 1.48 | 1.44 |
| 33 | P | 609 | CHL | C1B-NB | 2.01 | 1.37 | 1.35 |
| 25 | U | 303 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 25 | A | 811 | CLA | MG-ND | -2.01 | 2.01 | 2.05 |
| 33 | 7 | 305 | CHL | C3D-C4D | -2.01 | 1.39 | 1.44 |
| 25 | 6 | 609 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 34 | 7 | 314 | LUT | C22-C21 | -2.00 | 1.52 | 1.54 |
| 25 | A | 814 | CLA | CAA-C2A | -2.00 | 1.50 | 1.54 |
| 25 | 4 | 313 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 25 | B | 825 | CLA | C4B-CHC | -2.00 | 1.35 | 1.41 |
| 25 | a | 309 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 25 | A | 829 | CLA | C4B-CHC | -2.00 | 1.35 | 1.41 |
| 25 | U | 304 | CLA | C3C-C2C | 2.00 | 1.41 | 1.36 |
| 35 | S | 318 | XAT | O24-C25 | -2.00 | 1.43 | 1.46 |
| 25 | U | 312 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 25 | T | 608 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 25 | 8 | 308 | CLA | CAC-C3C | -2.00 | 1.46 | 1.51 |

All (5126) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 25 | a | 303 | CLA | C1-C2-C3 | 16.98 | 155.41 | 126.04 |
| 25 | 1 | 612 | CLA | C4A-NA-C1A | 13.26 | 112.67 | 106.71 |
| 36 | P | 621 | NEX | C16-C1-C6 | 12.24 | 121.42 | 110.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 25 | a | 303 | CLA | C4-C3-C5 | -10.98 | 96.79 | 115.27 |
| 33 | R | 609 | CHL | C4A-NA-C1A | 10.42 | 111.39 | 106.71 |
| 33 | Q | 608 | CHL | C4A-NA-C1A | 10.38 | 111.37 | 106.71 |
| 25 | a | 303 | CLA | O2A-C1-C2 | 10.37 | 135.89 | 108.64 |
| 33 | P | 609 | CHL | C4A-NA-C1A | 10.35 | 111.36 | 106.71 |
| 28 | 5 | 323 | BCR | C16-C17-C18 | -9.68 | 113.50 | 127.31 |
| 25 | a | 303 | CLA | C4-C3-C2 | 9.52 | 148.10 | 123.68 |
| 36 | R | 617 | NEX | O24-C25-C24 | 9.03 | 120.16 | 113.38 |
| 35 | S | 318 | XAT | O24-C25-C24 | 8.82 | 120.00 | 113.38 |
| 25 | P | 612 | CLA | C4A-NA-C1A | 8.76 | 110.64 | 106.71 |
| 36 | U | 301 | NEX | O24-C25-C24 | 8.71 | 119.92 | 113.38 |
| 25 | a | 311 | CLA | C4A-NA-C1A | 8.71 | 110.62 | 106.71 |
| 35 | P | 623 | XAT | O4-C5-C4 | 8.52 | 119.78 | 113.38 |
| 25 | R | 612 | CLA | C4A-NA-C1A | 8.51 | 110.53 | 106.71 |
| 33 | 6 | 608 | CHL | C4D-CHA-C1A | -8.50 | 110.90 | 121.25 |
| 33 | 8 | 307 | CHL | C4D-CHA-C1A | -8.48 | 110.92 | 121.25 |
| 36 | T | 616 | NEX | O24-C25-C24 | 8.32 | 119.63 | 113.38 |
| 35 | Q | 616 | XAT | O4-C5-C4 | 8.29 | 119.61 | 113.38 |
| 33 | P | 605 | CHL | C4D-CHA-C1A | -8.29 | 111.16 | 121.25 |
| 35 | T | 615 | XAT | O4-C5-C4 | 8.27 | 119.59 | 113.38 |
| 25 | B | 807 | CLA | C4A-NA-C1A | 8.19 | 110.39 | 106.71 |
| 33 | P | 622 | CHL | C2C-C3C-C4C | -8.18 | 100.66 | 106.49 |
| 33 | 8 | 307 | CHL | O2D-CGD-CBD | 8.15 | 125.75 | 111.27 |
| 33 | S | 309 | CHL | C4D-CHA-C1A | -8.12 | 111.37 | 121.25 |
| 33 | 5 | 308 | CHL | C4D-CHA-C1A | -8.12 | 111.37 | 121.25 |
| 33 | S | 302 | CHL | C2C-C3C-C4C | -8.10 | 100.72 | 106.49 |
| 36 | P | 617 | NEX | O24-C25-C24 | 8.09 | 119.46 | 113.38 |
| 35 | P | 616 | XAT | O24-C25-C24 | 8.01 | 119.40 | 113.38 |
| 33 | Q | 605 | CHL | C4D-CHA-C1A | -7.98 | 111.53 | 121.25 |
| 33 | 5 | 307 | CHL | CMD-C2D-C1D | 7.98 | 138.78 | 124.71 |
| 33 | 6 | 607 | CHL | C2C-C3C-C4C | -7.98 | 100.80 | 106.49 |
| 28 | 5 | 323 | BCR | C11-C10-C9 | -7.97 | 115.94 | 127.31 |
| 35 | P | 620 | XAT | O4-C5-C4 | 7.97 | 119.37 | 113.38 |
| 33 | 4 | 322 | CHL | C2C-C3C-C4C | -7.96 | 100.82 | 106.49 |
| 35 | P | 623 | XAT | O24-C25-C24 | 7.96 | 119.36 | 113.38 |
| 28 | 4 | 321 | BCR | C7-C8-C9 | -7.95 | 114.22 | 126.23 |
| 28 | B | 840 | BCR | C7-C8-C9 | -7.95 | 114.22 | 126.23 |
| 33 | R | 605 | CHL | C4D-CHA-C1A | -7.94 | 111.59 | 121.25 |
| 33 | S | 302 | CHL | C4D-CHA-C1A | -7.92 | 111.61 | 121.25 |
| 33 | 9 | 306 | CHL | CMD-C2D-C1D | 7.88 | 138.61 | 124.71 |
| 25 | a | 308 | CLA | C4A-NA-C1A | 7.87 | 110.24 | 106.71 |
| 35 | T | 615 | XAT | O24-C25-C24 | 7.82 | 119.25 | 113.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 6 | 608 | CHL | C2C-C3C-C4C | -7.81 | 100.92 | 106.49 |
| 36 | U | 316 | NEX | O24-C25-C24 | 7.81 | 119.25 | 113.38 |
| 33 | 3 | 306 | CHL | CMD-C2D-C1D | 7.81 | 138.47 | 124.71 |
| 33 | T | 604 | CHL | C4D-CHA-C1A | -7.79 | 111.77 | 121.25 |
| 33 | 3 | 306 | CHL | C4D-CHA-C1A | -7.78 | 111.78 | 121.25 |
| 35 | P | 616 | XAT | O4-C5-C4 | 7.77 | 119.22 | 113.38 |
| 33 | P | 619 | CHL | C4D-CHA-C1A | -7.74 | 111.82 | 121.25 |
| 28 | 5 | 323 | BCR | C7-C8-C9 | -7.74 | 114.53 | 126.23 |
| 33 | P | 607 | CHL | C4D-CHA-C1A | -7.74 | 111.83 | 121.25 |
| 25 | B | 837 | CLA | C4A-NA-C1A | 7.74 | 110.18 | 106.71 |
| 33 | R | 607 | CHL | C4D-CHA-C1A | -7.72 | 111.85 | 121.25 |
| 25 | A | 834 | CLA | C4A-NA-C1A | 7.72 | 110.18 | 106.71 |
| 33 | U | 305 | CHL | C4D-CHA-C1A | -7.69 | 111.89 | 121.25 |
| 25 | 4 | 311 | CLA | C4A-NA-C1A | 7.68 | 110.16 | 106.71 |
| 33 | 6 | 608 | CHL | CMD-C2D-C1D | 7.68 | 138.25 | 124.71 |
| 33 | 9 | 307 | CHL | C4D-CHA-C1A | -7.66 | 111.92 | 121.25 |
| 25 | A | 842 | CLA | C4A-NA-C1A | 7.64 | 110.14 | 106.71 |
| 33 | T | 607 | CHL | C4D-CHA-C1A | -7.63 | 111.96 | 121.25 |
| 33 | 7 | 305 | CHL | CMD-C2D-C1D | 7.63 | 138.16 | 124.71 |
| 33 | 6 | 606 | CHL | C4D-CHA-C1A | -7.62 | 111.97 | 121.25 |
| 25 | 8 | 308 | CLA | C4A-NA-C1A | 7.59 | 110.12 | 106.71 |
| 25 | 1 | 609 | CLA | C4A-NA-C1A | 7.58 | 110.12 | 106.71 |
| 33 | Q | 606 | CHL | C4D-CHA-C1A | -7.58 | 112.02 | 121.25 |
| 33 | 1 | 601 | CHL | C2C-C3C-C4C | -7.58 | 101.09 | 106.49 |
| 33 | S | 307 | CHL | C4D-CHA-C1A | -7.58 | 112.03 | 121.25 |
| 33 | S | 308 | CHL | C4D-CHA-C1A | -7.58 | 112.03 | 121.25 |
| 33 | S | 310 | CHL | C4D-CHA-C1A | -7.54 | 112.08 | 121.25 |
| 33 | 4 | 306 | CHL | C4D-CHA-C1A | -7.53 | 112.09 | 121.25 |
| 33 | 8 | 307 | CHL | CMD-C2D-C1D | 7.52 | 137.97 | 124.71 |
| 33 | R | 605 | CHL | CMD-C2D-C1D | 7.51 | 137.96 | 124.71 |
| 33 | 6 | 617 | CHL | C4D-CHA-C1A | -7.51 | 112.11 | 121.25 |
| 25 | B | 803 | CLA | C4A-NA-C1A | 7.50 | 110.08 | 106.71 |
| 33 | S | 309 | CHL | CMD-C2D-C1D | 7.49 | 137.92 | 124.71 |
| 33 | P | 619 | CHL | CMD-C2D-C1D | 7.49 | 137.91 | 124.71 |
| 33 | 7 | 305 | CHL | C4D-CHA-C1A | -7.49 | 112.14 | 121.25 |
| 33 | T | 606 | CHL | C4D-CHA-C1A | -7.48 | 112.14 | 121.25 |
| 33 | S | 321 | CHL | CMD-C2D-C1D | 7.47 | 137.88 | 124.71 |
| 33 | R | 607 | CHL | CMD-C2D-C1D | 7.47 | 137.88 | 124.71 |
| 25 | Q | 604 | CLA | C4A-NA-C1A | 7.47 | 110.06 | 106.71 |
| 33 | P | 607 | CHL | CMD-C2D-C1D | 7.47 | 137.87 | 124.71 |
| 35 | P | 620 | XAT | O24-C25-C24 | 7.46 | 118.99 | 113.38 |
| 33 | Q | 605 | CHL | CMD-C2D-C1D | 7.44 | 137.82 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | U | 307 | CHL | CMD-C2D-C1D | 7.41 | 137.78 | 124.71 |
| 33 | 9 | 307 | CHL | C2C-C3C-C4C | -7.41 | 101.21 | 106.49 |
| 33 | T | 601 | CHL | C4D-CHA-C1A | -7.41 | 112.24 | 121.25 |
| 33 | P | 606 | CHL | CMD-C2D-C1D | 7.40 | 137.76 | 124.71 |
| 28 | J | 106 | BCR | C20-C21-C22 | -7.40 | 116.75 | 127.31 |
| 33 | S | 307 | CHL | CMD-C2D-C1D | 7.40 | 137.76 | 124.71 |
| 33 | T | 607 | CHL | CMD-C2D-C1D | 7.40 | 137.75 | 124.71 |
| 28 | K | 206 | BCR | C16-C17-C18 | -7.38 | 116.77 | 127.31 |
| 33 | S | 308 | CHL | CMD-C2D-C1D | 7.38 | 137.72 | 124.71 |
| 33 | P | 622 | CHL | C4D-CHA-C1A | -7.38 | 112.27 | 121.25 |
| 33 | 4 | 305 | CHL | C4D-CHA-C1A | -7.38 | 112.27 | 121.25 |
| 33 | 4 | 322 | CHL | C4D-CHA-C1A | -7.37 | 112.27 | 121.25 |
| 33 | U | 307 | CHL | C4D-CHA-C1A | -7.37 | 112.28 | 121.25 |
| 25 | 7 | 311 | CLA | C4A-NA-C1A | 7.36 | 110.02 | 106.71 |
| 25 | 6 | 613 | CLA | C4A-NA-C1A | 7.35 | 110.01 | 106.71 |
| 25 | Q | 603 | CLA | C4A-NA-C1A | 7.35 | 110.01 | 106.71 |
| 33 | 6 | 617 | CHL | CMD-C2D-C1D | 7.35 | 137.66 | 124.71 |
| 25 | B | 820 | CLA | C4A-NA-C1A | 7.35 | 110.01 | 106.71 |
| 33 | 4 | 305 | CHL | CMD-C2D-C1D | 7.35 | 137.66 | 124.71 |
| 33 | P | 606 | CHL | C4D-CHA-C1A | -7.34 | 112.32 | 121.25 |
| 33 | 5 | 307 | CHL | C2C-C3C-C4C | -7.34 | 101.26 | 106.49 |
| 25 | A | 811 | CLA | C4A-NA-C1A | 7.33 | 110.00 | 106.71 |
| 33 | U | 306 | CHL | CMD-C2D-C1D | 7.33 | 137.63 | 124.71 |
| 33 | Q | 601 | CHL | C4D-CHA-C1A | -7.32 | 112.33 | 121.25 |
| 33 | Q | 607 | CHL | C4D-CHA-C1A | -7.32 | 112.34 | 121.25 |
| 33 | P | 608 | CHL | C4D-CHA-C1A | -7.32 | 112.34 | 121.25 |
| 33 | P | 608 | CHL | CMD-C2D-C1D | 7.32 | 137.60 | 124.71 |
| 33 | Q | 607 | CHL | CMD-C2D-C1D | 7.31 | 137.60 | 124.71 |
| 33 | R | 608 | CHL | C4D-CHA-C1A | -7.31 | 112.35 | 121.25 |
| 35 | Q | 616 | XAT | O24-C25-C24 | 7.31 | 118.87 | 113.38 |
| 33 | T | 605 | CHL | C4D-CHA-C1A | -7.31 | 112.36 | 121.25 |
| 33 | P | 605 | CHL | C2C-C3C-C4C | -7.30 | 101.28 | 106.49 |
| 33 | R | 608 | CHL | CMD-C2D-C1D | 7.30 | 137.58 | 124.71 |
| 25 | 9 | 309 | CLA | C4A-NA-C1A | 7.30 | 109.99 | 106.71 |
| 33 | 9 | 306 | CHL | C4D-CHA-C1A | -7.30 | 112.37 | 121.25 |
| 33 | R | 601 | CHL | C4D-CHA-C1A | -7.29 | 112.37 | 121.25 |
| 33 | P | 601 | CHL | C4D-CHA-C1A | -7.29 | 112.37 | 121.25 |
| 25 | 7 | 310 | CLA | C4A-NA-C1A | 7.29 | 109.98 | 106.71 |
| 33 | 6 | 606 | CHL | CMD-C2D-C1D | 7.29 | 137.55 | 124.71 |
| 33 | 9 | 306 | CHL | C2C-C3C-C4C | -7.28 | 101.30 | 106.49 |
| 25 | 5 | 313 | CLA | C4A-NA-C1A | 7.28 | 109.98 | 106.71 |
| 25 | A | 828 | CLA | C4A-NA-C1A | 7.27 | 109.97 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 2 | 304 | CLA | C4A-NA-C1A | 7.27 | 109.97 | 106.71 |
| 33 | 5 | 308 | CHL | CMD-C2D-C1D | 7.27 | 137.52 | 124.71 |
| 28 | B | 842 | BCR | C24-C23-C22 | -7.27 | 115.25 | 126.23 |
| 33 | 1 | 606 | CHL | CMD-C2D-C1D | 7.27 | 137.52 | 124.71 |
| 25 | 9 | 305 | CLA | C4A-NA-C1A | 7.26 | 109.97 | 106.71 |
| 28 | O | 205 | BCR | C7-C8-C9 | -7.26 | 115.26 | 126.23 |
| 33 | T | 604 | CHL | CMD-C2D-C1D | 7.26 | 137.51 | 124.71 |
| 33 | T | 605 | CHL | CMD-C2D-C1D | 7.26 | 137.51 | 124.71 |
| 33 | T | 606 | CHL | CMD-C2D-C1D | 7.26 | 137.50 | 124.71 |
| 33 | a | 305 | CHL | CMD-C2D-C1D | 7.25 | 137.49 | 124.71 |
| 25 | 2 | 306 | CLA | C4A-NA-C1A | 7.25 | 109.97 | 106.71 |
| 33 | 5 | 317 | CHL | C4D-CHA-C1A | -7.24 | 112.44 | 121.25 |
| 33 | U | 308 | CHL | CMD-C2D-C1D | 7.24 | 137.47 | 124.71 |
| 25 | K | 204 | CLA | C4A-NA-C1A | 7.23 | 109.96 | 106.71 |
| 33 | 4 | 314 | CHL | CMD-C2D-C1D | 7.22 | 137.43 | 124.71 |
| 33 | 4 | 304 | CHL | C4D-CHA-C1A | -7.21 | 112.48 | 121.25 |
| 33 | R | 606 | CHL | C4D-CHA-C1A | -7.20 | 112.48 | 121.25 |
| 33 | 4 | 314 | CHL | C4D-CHA-C1A | -7.19 | 112.50 | 121.25 |
| 25 | 2 | 312 | CLA | C4A-NA-C1A | 7.19 | 109.94 | 106.71 |
| 25 | 3 | 311 | CLA | C4A-NA-C1A | 7.19 | 109.94 | 106.71 |
| 25 | 6 | 623 | CLA | C4A-NA-C1A | 7.19 | 109.94 | 106.71 |
| 33 | U | 308 | CHL | C4D-CHA-C1A | -7.19 | 112.50 | 121.25 |
| 33 | Q | 601 | CHL | CMD-C2D-C1D | 7.17 | 137.36 | 124.71 |
| 33 | P | 601 | CHL | CMD-C2D-C1D | 7.17 | 137.35 | 124.71 |
| 25 | A | 821 | CLA | C4A-NA-C1A | 7.17 | 109.93 | 106.71 |
| 25 | T | 603 | CLA | C4A-NA-C1A | 7.16 | 109.93 | 106.71 |
| 33 | R | 601 | CHL | CMD-C2D-C1D | 7.16 | 137.34 | 124.71 |
| 33 | U | 306 | CHL | C4D-CHA-C1A | -7.15 | 112.54 | 121.25 |
| 33 | 5 | 308 | CHL | C2C-C3C-C4C | -7.14 | 101.40 | 106.49 |
| 25 | A | 830 | CLA | C4A-NA-C1A | 7.14 | 109.92 | 106.71 |
| 25 | 8 | 312 | CLA | C4A-NA-C1A | 7.14 | 109.92 | 106.71 |
| 33 | 1 | 606 | CHL | C4D-CHA-C1A | -7.13 | 112.57 | 121.25 |
| 33 | Q | 606 | CHL | CMD-C2D-C1D | 7.13 | 137.28 | 124.71 |
| 25 | 3 | 314 | CLA | C4A-NA-C1A | 7.13 | 109.91 | 106.71 |
| 25 | B | 802 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 25 | R | 604 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 33 | U | 305 | CHL | CMD-C2D-C1D | 7.12 | 137.26 | 124.71 |
| 25 | A | 822 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 33 | P | 605 | CHL | CMD-C2D-C1D | 7.11 | 137.25 | 124.71 |
| 33 | U | 309 | CHL | C4D-CHA-C1A | -7.11 | 112.60 | 121.25 |
| 25 | P | 604 | CLA | C4A-NA-C1A | 7.10 | 109.90 | 106.71 |
| 33 | 6 | 607 | CHL | C4D-CHA-C1A | -7.09 | 112.62 | 121.25 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 839 | CLA | C4A-NA-C1A | 7.09 | 109.89 | 106.71 |
| 33 | U | 309 | CHL | CMD-C2D-C1D | 7.08 | 137.19 | 124.71 |
| 25 | L | 209 | CLA | C4A-NA-C1A | 7.08 | 109.89 | 106.71 |
| 33 | 7 | 305 | CHL | C2C-C3C-C4C | -7.07 | 101.45 | 106.49 |
| 33 | S | 306 | CHL | CMD-C2D-C1D | 7.07 | 137.18 | 124.71 |
| 25 | K | 201 | CLA | C4A-NA-C1A | 7.06 | 109.88 | 106.71 |
| 25 | P | 603 | CLA | C4A-NA-C1A | 7.06 | 109.88 | 106.71 |
| 33 | 5 | 317 | CHL | CMD-C2D-C1D | 7.05 | 137.15 | 124.71 |
| 25 | A | 806 | CLA | C4A-NA-C1A | 7.04 | 109.87 | 106.71 |
| 25 | S | 320 | CLA | C4A-NA-C1A | 7.04 | 109.87 | 106.71 |
| 33 | S | 302 | CHL | CMD-C2D-C1D | 7.04 | 137.12 | 124.71 |
| 33 | 1 | 601 | CHL | C4D-CHA-C1A | -7.04 | 112.68 | 121.25 |
| 25 | B | 818 | CLA | C4A-NA-C1A | 7.03 | 109.87 | 106.71 |
| 33 | 6 | 607 | CHL | CMD-C2D-C1D | 7.03 | 137.10 | 124.71 |
| 25 | 1 | 607 | CLA | C4A-NA-C1A | 7.02 | 109.86 | 106.71 |
| 33 | T | 601 | CHL | CMD-C2D-C1D | 7.02 | 137.09 | 124.71 |
| 25 | L | 202 | CLA | C4A-NA-C1A | 7.02 | 109.86 | 106.71 |
| 25 | B | 832 | CLA | C4A-NA-C1A | 7.02 | 109.86 | 106.71 |
| 25 | 6 | 616 | CLA | C4A-NA-C1A | 7.01 | 109.86 | 106.71 |
| 25 | 2 | 305 | CLA | C4A-NA-C1A | 6.99 | 109.85 | 106.71 |
| 33 | 5 | 317 | CHL | C2C-C3C-C4C | -6.98 | 101.51 | 106.49 |
| 25 | U | 303 | CLA | C4A-NA-C1A | 6.98 | 109.84 | 106.71 |
| 25 | A | 837 | CLA | C4A-NA-C1A | 6.97 | 109.84 | 106.71 |
| 36 | P | 621 | NEX | C38-C25-C26 | -6.95 | 110.62 | 122.26 |
| 33 | 5 | 307 | CHL | C4D-CHA-C1A | -6.95 | 112.80 | 121.25 |
| 25 | A | 829 | CLA | C4A-NA-C1A | 6.94 | 109.83 | 106.71 |
| 33 | 4 | 306 | CHL | CMD-C2D-C1D | 6.94 | 136.95 | 124.71 |
| 33 | P | 622 | CHL | CMD-C2D-C1D | 6.93 | 136.92 | 124.71 |
| 33 | T | 604 | CHL | C2C-C3C-C4C | -6.92 | 101.55 | 106.49 |
| 25 | U | 304 | CLA | C4A-NA-C1A | 6.92 | 109.82 | 106.71 |
| 33 | R | 606 | CHL | CMD-C2D-C1D | 6.92 | 136.91 | 124.71 |
| 25 | A | 810 | CLA | C4A-NA-C1A | 6.91 | 109.81 | 106.71 |
| 25 | 3 | 303 | CLA | C4A-NA-C1A | 6.91 | 109.81 | 106.71 |
| 25 | K | 205 | CLA | C4A-NA-C1A | 6.91 | 109.81 | 106.71 |
| 25 | B | 816 | CLA | C4A-NA-C1A | 6.91 | 109.81 | 106.71 |
| 25 | L | 206 | CLA | C4A-NA-C1A | 6.91 | 109.81 | 106.71 |
| 33 | 9 | 307 | CHL | CMD-C2D-C1D | 6.90 | 136.88 | 124.71 |
| 33 | U | 305 | CHL | C2C-C3C-C4C | -6.90 | 101.57 | 106.49 |
| 33 | U | 307 | CHL | C2C-C3C-C4C | -6.90 | 101.57 | 106.49 |
| 25 | 5 | 303 | CLA | C4A-NA-C1A | 6.90 | 109.81 | 106.71 |
| 25 | 5 | 305 | CLA | C4A-NA-C1A | 6.90 | 109.81 | 106.71 |
| 25 | 3 | 301 | CLA | C4A-NA-C1A | 6.90 | 109.81 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | I | 201 | BCR | C20-C21-C22 | -6.90 | 117.46 | 127.31 |
| 25 | A | 818 | CLA | C4A-NA-C1A | 6.89 | 109.80 | 106.71 |
| 25 | B | 831 | CLA | C4A-NA-C1A | 6.88 | 109.80 | 106.71 |
| 33 | S | 310 | CHL | CMD-C2D-C1D | 6.87 | 136.82 | 124.71 |
| 25 | B | 811 | CLA | C4A-NA-C1A | 6.87 | 109.79 | 106.71 |
| 25 | B | 834 | CLA | C4A-NA-C1A | 6.86 | 109.79 | 106.71 |
| 25 | U | 312 | CLA | C4A-NA-C1A | 6.85 | 109.79 | 106.71 |
| 25 | A | 802 | CLA | C4A-NA-C1A | 6.84 | 109.78 | 106.71 |
| 25 | B | 805 | CLA | C4A-NA-C1A | 6.82 | 109.77 | 106.71 |
| 33 | 4 | 304 | CHL | C2C-C3C-C4C | -6.82 | 101.63 | 106.49 |
| 25 | 5 | 316 | CLA | C4A-NA-C1A | 6.82 | 109.77 | 106.71 |
| 25 | H | 202 | CLA | C4A-NA-C1A | 6.81 | 109.77 | 106.71 |
| 33 | S | 321 | CHL | C2C-C3C-C4C | -6.81 | 101.64 | 106.49 |
| 33 | a | 305 | CHL | C4D-CHA-C1A | -6.81 | 112.97 | 121.25 |
| 33 | Q | 605 | CHL | C2C-C3C-C4C | -6.80 | 101.64 | 106.49 |
| 33 | Q | 606 | CHL | C2C-C3C-C4C | -6.80 | 101.64 | 106.49 |
| 33 | a | 305 | CHL | C2C-C3C-C4C | -6.80 | 101.64 | 106.49 |
| 25 | R | 613 | CLA | C4A-NA-C1A | 6.79 | 109.76 | 106.71 |
| 25 | S | 303 | CLA | C4A-NA-C1A | 6.79 | 109.76 | 106.71 |
| 33 | R | 606 | CHL | C2C-C3C-C4C | -6.78 | 101.65 | 106.49 |
| 25 | a | 306 | CLA | C4A-NA-C1A | 6.77 | 109.75 | 106.71 |
| 25 | B | 819 | CLA | C4A-NA-C1A | 6.77 | 109.75 | 106.71 |
| 33 | 4 | 304 | CHL | CMD-C2D-C1D | 6.76 | 136.62 | 124.71 |
| 25 | A | 823 | CLA | C4A-NA-C1A | 6.76 | 109.74 | 106.71 |
| 25 | A | 833 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 25 | B | 825 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 25 | P | 613 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 25 | H | 205 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 25 | 3 | 320 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 33 | S | 321 | CHL | C4D-CHA-C1A | -6.74 | 113.04 | 121.25 |
| 25 | 8 | 313 | CLA | C4A-NA-C1A | 6.74 | 109.74 | 106.71 |
| 25 | B | 821 | CLA | C4A-NA-C1A | 6.73 | 109.73 | 106.71 |
| 25 | 8 | 315 | CLA | C4A-NA-C1A | 6.73 | 109.73 | 106.71 |
| 25 | 6 | 601 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 36 | R | 617 | NEX | C38-C25-C26 | -6.72 | 110.99 | 122.26 |
| 28 | 3 | 319 | BCR | C11-C10-C9 | -6.72 | 117.71 | 127.31 |
| 25 | B | 814 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 25 | 4 | 303 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 28 | B | 841 | BCR | C7-C8-C9 | -6.71 | 116.09 | 126.23 |
| 25 | S | 314 | CLA | C4A-NA-C1A | 6.71 | 109.72 | 106.71 |
| 25 | 6 | 604 | CLA | C4A-NA-C1A | 6.69 | 109.72 | 106.71 |
| 25 | 1 | 614 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 6 | 605 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 25 | S | 304 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 25 | 6 | 614 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 25 | 4 | 301 | CLA | C4A-NA-C1A | 6.68 | 109.71 | 106.71 |
| 25 | J | 105 | CLA | C4A-NA-C1A | 6.68 | 109.71 | 106.71 |
| 36 | U | 301 | NEX | C17-C1-C6 | -6.68 | 104.50 | 110.47 |
| 25 | 9 | 310 | CLA | C4A-NA-C1A | 6.68 | 109.71 | 106.71 |
| 25 | B | 836 | CLA | C4A-NA-C1A | 6.66 | 109.70 | 106.71 |
| 33 | 8 | 307 | CHL | C2C-C3C-C4C | -6.66 | 101.74 | 106.49 |
| 25 | L | 201 | CLA | C4A-NA-C1A | 6.66 | 109.70 | 106.71 |
| 33 | U | 306 | CHL | C2C-C3C-C4C | -6.65 | 101.75 | 106.49 |
| 25 | 6 | 610 | CLA | C4A-NA-C1A | 6.65 | 109.69 | 106.71 |
| 25 | A | 832 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 25 | 7 | 307 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 25 | B | 804 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 25 | A | 840 | CLA | C4A-NA-C1A | 6.63 | 109.69 | 106.71 |
| 25 | B | 813 | CLA | C4A-NA-C1A | 6.63 | 109.69 | 106.71 |
| 33 | S | 306 | CHL | C4D-CHA-C1A | -6.62 | 113.19 | 121.25 |
| 25 | J | 103 | CLA | C4A-NA-C1A | 6.61 | 109.68 | 106.71 |
| 25 | a | 303 | CLA | C4A-NA-C1A | 6.61 | 109.68 | 106.71 |
| 25 | G | 201 | CLA | C4A-NA-C1A | 6.61 | 109.68 | 106.71 |
| 35 | P | 616 | XAT | C18-C5-C6 | -6.60 | 111.19 | 122.26 |
| 28 | F | 801 | BCR | C24-C23-C22 | -6.60 | 116.26 | 126.23 |
| 25 | A | 831 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 36 | U | 316 | NEX | C38-C25-C26 | -6.60 | 111.20 | 122.26 |
| 25 | A | 816 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 25 | A | 817 | CLA | C4A-NA-C1A | 6.59 | 109.67 | 106.71 |
| 25 | a | 313 | CLA | C4A-NA-C1A | 6.59 | 109.67 | 106.71 |
| 28 | 4 | 321 | BCR | C24-C23-C22 | -6.58 | 116.29 | 126.23 |
| 36 | U | 301 | NEX | C35-C34-C33 | -6.58 | 117.92 | 127.31 |
| 25 | Q | 612 | CLA | C4A-NA-C1A | 6.56 | 109.66 | 106.71 |
| 25 | 5 | 304 | CLA | C4A-NA-C1A | 6.56 | 109.65 | 106.71 |
| 25 | a | 310 | CLA | C4A-NA-C1A | 6.55 | 109.65 | 106.71 |
| 25 | Q | 610 | CLA | C4A-NA-C1A | 6.55 | 109.65 | 106.71 |
| 33 | S | 308 | CHL | C2C-C3C-C4C | -6.54 | 101.83 | 106.49 |
| 36 | U | 301 | NEX | C38-C25-C26 | -6.54 | 111.30 | 122.26 |
| 33 | S | 310 | CHL | C2C-C3C-C4C | -6.54 | 101.83 | 106.49 |
| 25 | B | 828 | CLA | C4A-NA-C1A | 6.54 | 109.64 | 106.71 |
| 25 | A | 805 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 36 | U | 316 | NEX | C35-C34-C33 | -6.52 | 118.00 | 127.31 |
| 25 | A | 838 | CLA | C4A-NA-C1A | 6.52 | 109.64 | 106.71 |
| 33 | T | 601 | CHL | C2C-C3C-C4C | -6.51 | 101.84 | 106.49 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 35 | P | 620 | XAT | C38-C25-C26 | -6.51 | 111.35 | 122.26 |
| 36 | P | 617 | NEX | C38-C25-C26 | -6.51 | 111.35 | 122.26 |
| 25 | B | 809 | CLA | C4A-NA-C1A | 6.51 | 109.63 | 106.71 |
| 25 | P | 611 | CLA | CMD-C2D-C1D | 6.51 | 136.18 | 124.71 |
| 33 | T | 605 | CHL | C2C-C3C-C4C | -6.50 | 101.85 | 106.49 |
| 25 | T | 611 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 25 | 9 | 308 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 25 | 5 | 315 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 25 | 8 | 309 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 25 | A | 836 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 25 | A | 809 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 25 | 2 | 311 | CLA | C4A-NA-C1A | 6.48 | 109.62 | 106.71 |
| 25 | 5 | 312 | CLA | C4A-NA-C1A | 6.48 | 109.62 | 106.71 |
| 33 | P | 606 | CHL | C2C-C3C-C4C | -6.47 | 101.88 | 106.49 |
| 25 | O | 203 | CLA | C4A-NA-C1A | 6.47 | 109.61 | 106.71 |
| 25 | 7 | 301 | CLA | C4A-NA-C1A | 6.46 | 109.61 | 106.71 |
| 25 | U | 313 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 25 | B | 833 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 25 | S | 312 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 25 | 6 | 603 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 33 | S | 309 | CHL | C2C-C3C-C4C | -6.44 | 101.90 | 106.49 |
| 25 | 9 | 301 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |
| 36 | U | 301 | NEX | C15-C14-C13 | -6.43 | 118.13 | 127.31 |
| 25 | 8 | 306 | CLA | C4A-NA-C1A | 6.43 | 109.60 | 106.71 |
| 36 | T | 616 | NEX | C38-C25-C26 | -6.43 | 111.49 | 122.26 |
| 25 | B | 810 | CLA | C4A-NA-C1A | 6.42 | 109.59 | 106.71 |
| 25 | 3 | 310 | CLA | C4A-NA-C1A | 6.42 | 109.59 | 106.71 |
| 25 | 7 | 302 | CLA | C4A-NA-C1A | 6.42 | 109.59 | 106.71 |
| 25 | K | 202 | CLA | C4A-NA-C1A | 6.42 | 109.59 | 106.71 |
| 25 | 3 | 308 | CLA | C4A-NA-C1A | 6.42 | 109.59 | 106.71 |
| 36 | T | 616 | NEX | C35-C34-C33 | -6.42 | 118.15 | 127.31 |
| 25 | B | 829 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 25 | H | 201 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 33 | P | 601 | CHL | C2C-C3C-C4C | -6.41 | 101.92 | 106.49 |
| 33 | R | 601 | CHL | C2C-C3C-C4C | -6.41 | 101.92 | 106.49 |
| 25 | 6 | 609 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 25 | 8 | 314 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 25 | S | 305 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |
| 25 | 7 | 308 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |
| 33 | Q | 607 | CHL | C2C-C3C-C4C | -6.40 | 101.93 | 106.49 |
| 33 | T | 607 | CHL | C2C-C3C-C4C | -6.40 | 101.93 | 106.49 |
| 25 | 4 | 312 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | O | 201 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 25 | A | 813 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 25 | 2 | 310 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 25 | 5 | 306 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 25 | 2 | 302 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 28 | I | 201 | BCR | C24-C23-C22 | -6.39 | 116.58 | 126.23 |
| 25 | B | 827 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 25 | 3 | 305 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 33 | U | 308 | CHL | C2C-C3C-C4C | -6.39 | 101.94 | 106.49 |
| 33 | Q | 601 | CHL | C2C-C3C-C4C | -6.38 | 101.94 | 106.49 |
| 35 | T | 615 | XAT | C38-C25-C26 | -6.38 | 111.56 | 122.26 |
| 33 | R | 608 | CHL | C2C-C3C-C4C | -6.38 | 101.94 | 106.49 |
| 28 | 5 | 323 | BCR | C23-C22-C21 | -6.38 | 109.15 | 118.94 |
| 33 | U | 309 | CHL | C2C-C3C-C4C | -6.37 | 101.94 | 106.49 |
| 25 | 1 | 611 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 25 | 8 | 303 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 35 | S | 318 | XAT | O4-C5-C4 | 6.37 | 118.17 | 113.38 |
| 33 | P | 607 | CHL | C2C-C3C-C4C | -6.37 | 101.95 | 106.49 |
| 25 | S | 313 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 36 | P | 617 | NEX | C35-C34-C33 | -6.36 | 118.23 | 127.31 |
| 33 | P | 608 | CHL | C2C-C3C-C4C | -6.36 | 101.95 | 106.49 |
| 35 | T | 615 | XAT | C18-C5-C6 | -6.36 | 111.60 | 122.26 |
| 25 | T | 608 | CLA | C4A-NA-C1A | 6.36 | 109.56 | 106.71 |
| 25 | 6 | 615 | CLA | C4A-NA-C1A | 6.36 | 109.56 | 106.71 |
| 25 | 8 | 310 | CLA | C4A-NA-C1A | 6.36 | 109.56 | 106.71 |
| 33 | 9 | 306 | CHL | CHD-C4C-C3C | -6.35 | 115.50 | 124.84 |
| 25 | T | 610 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 33 | P | 619 | CHL | C2C-C3C-C4C | -6.35 | 101.96 | 106.49 |
| 25 | R | 614 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 28 | B | 851 | BCR | C16-C17-C18 | -6.35 | 118.25 | 127.31 |
| 25 | H | 203 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 36 | P | 621 | NEX | O24-C25-C24 | 6.35 | 118.15 | 113.38 |
| 33 | S | 306 | CHL | C2C-C3C-C4C | -6.34 | 101.97 | 106.49 |
| 35 | P | 620 | XAT | C18-C5-C6 | -6.34 | 111.64 | 122.26 |
| 25 | A | 820 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 25 | 4 | 313 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 34 | a | 316 | LUT | C15-C14-C13 | -6.33 | 118.27 | 127.31 |
| 35 | Q | 616 | XAT | C38-C25-C26 | -6.33 | 111.65 | 122.26 |
| 25 | 4 | 302 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 35 | P | 623 | XAT | C31-C30-C29 | -6.33 | 118.28 | 127.31 |
| 33 | T | 606 | CHL | C2C-C3C-C4C | -6.33 | 101.98 | 106.49 |
| 25 | 3 | 313 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 4 | 314 | CHL | C2C-C3C-C4C | -6.32 | 101.98 | 106.49 |
| 35 | P | 623 | XAT | C18-C5-C6 | -6.32 | 111.66 | 122.26 |
| 35 | S | 318 | XAT | C38-C25-C26 | -6.32 | 111.67 | 122.26 |
| 33 | R | 607 | CHL | C2C-C3C-C4C | -6.32 | 101.99 | 106.49 |
| 25 | B | 806 | CLA | C4A-NA-C1A | 6.31 | 109.55 | 106.71 |
| 28 | O | 204 | BCR | C3-C4-C5 | -6.31 | 102.81 | 114.08 |
| 25 | 8 | 304 | CLA | C4A-NA-C1A | 6.31 | 109.54 | 106.71 |
| 28 | O | 205 | BCR | C11-C10-C9 | -6.30 | 118.31 | 127.31 |
| 25 | 9 | 304 | CLA | C4A-NA-C1A | 6.30 | 109.54 | 106.71 |
| 36 | P | 617 | NEX | C15-C14-C13 | -6.29 | 118.34 | 127.31 |
| 35 | P | 616 | XAT | C38-C25-C26 | -6.29 | 111.72 | 122.26 |
| 33 | 1 | 606 | CHL | C2C-C3C-C4C | -6.29 | 102.01 | 106.49 |
| 28 | 3 | 318 | BCR | C20-C21-C22 | -6.28 | 118.35 | 127.31 |
| 33 | P | 622 | CHL | OMC-CMC-C2C | -6.28 | 111.49 | 125.69 |
| 25 | 4 | 308 | CLA | C4A-NA-C1A | 6.27 | 109.53 | 106.71 |
| 25 | A | 807 | CLA | C4A-NA-C1A | 6.27 | 109.53 | 106.71 |
| 25 | 3 | 304 | CLA | C4A-NA-C1A | 6.27 | 109.53 | 106.71 |
| 25 | A | 808 | CLA | C4A-NA-C1A | 6.27 | 109.52 | 106.71 |
| 25 | B | 817 | CLA | C4A-NA-C1A | 6.26 | 109.52 | 106.71 |
| 35 | Q | 616 | XAT | C18-C5-C6 | -6.26 | 111.77 | 122.26 |
| 25 | a | 307 | CLA | C4A-NA-C1A | 6.26 | 109.52 | 106.71 |
| 25 | L | 205 | CLA | C4A-NA-C1A | 6.25 | 109.52 | 106.71 |
| 25 | 1 | 605 | CLA | C4A-NA-C1A | 6.24 | 109.51 | 106.71 |
| 36 | R | 617 | NEX | C35-C34-C33 | -6.24 | 118.41 | 127.31 |
| 35 | S | 318 | XAT | C18-C5-C6 | -6.23 | 111.81 | 122.26 |
| 25 | G | 202 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |
| 25 | 9 | 302 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |
| 25 | R | 603 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |
| 25 | 7 | 306 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |
| 33 | 6 | 617 | CHL | C2C-C3C-C4C | -6.23 | 102.05 | 106.49 |
| 25 | 3 | 302 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |
| 25 | 7 | 313 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |
| 25 | 3 | 307 | CLA | C4A-NA-C1A | 6.22 | 109.50 | 106.71 |
| 33 | 6 | 606 | CHL | C2C-C3C-C4C | -6.21 | 102.06 | 106.49 |
| 33 | 3 | 306 | CHL | C2C-C3C-C4C | -6.21 | 102.06 | 106.49 |
| 25 | 2 | 307 | CLA | C4A-NA-C1A | 6.21 | 109.50 | 106.71 |
| 25 | B | 849 | CLA | C4A-NA-C1A | 6.20 | 109.49 | 106.71 |
| 25 | S | 315 | CLA | C4A-NA-C1A | 6.20 | 109.49 | 106.71 |
| 36 | U | 316 | NEX | C15-C14-C13 | -6.20 | 118.47 | 127.31 |
| 36 | R | 617 | NEX | C15-C14-C13 | -6.19 | 118.48 | 127.31 |
| 28 | 3 | 318 | BCR | C11-C10-C9 | -6.19 | 118.48 | 127.31 |
| 25 | B | 826 | CLA | C4A-NA-C1A | 6.19 | 109.49 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 815 | CLA | C4A-NA-C1A | 6.18 | 109.49 | 106.71 |
| 33 | 4 | 305 | CHL | C2C-C3C-C4C | -6.18 | 102.08 | 106.49 |
| 25 | T | 612 | CLA | C4A-NA-C1A | 6.18 | 109.48 | 106.71 |
| 25 | 1 | 602 | CLA | C4A-NA-C1A | 6.18 | 109.48 | 106.71 |
| 25 | 5 | 319 | CLA | C4A-NA-C1A | 6.17 | 109.48 | 106.71 |
| 35 | P | 623 | XAT | C38-C25-C26 | -6.14 | 111.97 | 122.26 |
| 35 | P | 616 | XAT | C31-C30-C29 | -6.14 | 118.55 | 127.31 |
| 36 | P | 621 | NEX | C15-C14-C13 | -6.13 | 118.57 | 127.31 |
| 25 | 4 | 310 | CLA | C4A-NA-C1A | 6.12 | 109.46 | 106.71 |
| 36 | T | 616 | NEX | C15-C14-C13 | -6.11 | 118.59 | 127.31 |
| 33 | 6 | 608 | CHL | CHD-C4C-C3C | -6.11 | 115.86 | 124.84 |
| 25 | B | 838 | CLA | C4A-NA-C1A | 6.11 | 109.45 | 106.71 |
| 33 | S | 302 | CHL | CHD-C4C-C3C | -6.10 | 115.87 | 124.84 |
| 25 | 3 | 312 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 25 | 2 | 308 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 25 | A | 814 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 25 | 5 | 302 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 25 | a | 302 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 25 | Q | 609 | CLA | C4A-NA-C1A | 6.08 | 109.44 | 106.71 |
| 25 | 8 | 305 | CLA | C4A-NA-C1A | 6.08 | 109.44 | 106.71 |
| 25 | A | 804 | CLA | C4A-NA-C1A | 6.07 | 109.44 | 106.71 |
| 25 | A | 824 | CLA | C4A-NA-C1A | 6.07 | 109.43 | 106.71 |
| 28 | I | 201 | BCR | C16-C17-C18 | -6.06 | 118.66 | 127.31 |
| 34 | 1 | 617 | LUT | C15-C14-C13 | -6.06 | 118.66 | 127.31 |
| 33 | 3 | 306 | CHL | CHD-C4C-C3C | -6.06 | 115.93 | 124.84 |
| 25 | U | 310 | CLA | C4A-NA-C1A | 6.05 | 109.43 | 106.71 |
| 25 | a | 301 | CLA | C4A-NA-C1A | 6.05 | 109.42 | 106.71 |
| 35 | P | 620 | XAT | C31-C30-C29 | -6.04 | 118.69 | 127.31 |
| 33 | R | 605 | CHL | C2C-C3C-C4C | -6.03 | 102.19 | 106.49 |
| 25 | A | 819 | CLA | C4A-NA-C1A | 6.03 | 109.42 | 106.71 |
| 25 | P | 610 | CLA | C4A-NA-C1A | 6.02 | 109.41 | 106.71 |
| 28 | 4 | 321 | BCR | C11-C10-C9 | -6.02 | 118.72 | 127.31 |
| 28 | L | 204 | BCR | C7-C8-C9 | -6.01 | 117.15 | 126.23 |
| 28 | L | 203 | BCR | C3-C4-C5 | -6.01 | 103.35 | 114.08 |
| 33 | S | 307 | CHL | O2D-CGD-CBD | 6.01 | 121.94 | 111.27 |
| 25 | 1 | 604 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 25 | 2 | 313 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 25 | 2 | 314 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 28 | 4 | 317 | BCR | C15-C14-C13 | -6.00 | 118.75 | 127.31 |
| 25 | 5 | 309 | CLA | C4A-NA-C1A | 6.00 | 109.40 | 106.71 |
| 25 | A | 835 | CLA | C4A-NA-C1A | 5.99 | 109.40 | 106.71 |
| 25 | B | 824 | CLA | C4A-NA-C1A | 5.99 | 109.40 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 1 | 601 | CHL | CHD-C4C-C3C | -5.99 | 116.04 | 124.84 |
| 25 | A | 803 | CLA | C4A-NA-C1A | 5.98 | 109.40 | 106.71 |
| 25 | B | 808 | CLA | C4A-NA-C1A | 5.98 | 109.40 | 106.71 |
| 28 | O | 204 | BCR | C28-C27-C26 | -5.98 | 103.41 | 114.08 |
| 25 | O | 202 | CLA | C4A-NA-C1A | 5.97 | 109.39 | 106.71 |
| 25 | A | 853 | CLA | C4A-NA-C1A | 5.97 | 109.39 | 106.71 |
| 36 | P | 621 | NEX | C35-C34-C33 | -5.97 | 118.79 | 127.31 |
| 25 | 5 | 314 | CLA | C4A-NA-C1A | 5.97 | 109.39 | 106.71 |
| 25 | 6 | 620 | CLA | C4A-NA-C1A | 5.96 | 109.39 | 106.71 |
| 25 | K | 203 | CLA | C4A-NA-C1A | 5.96 | 109.39 | 106.71 |
| 33 | 5 | 308 | CHL | CHD-C4C-C3C | -5.95 | 116.09 | 124.84 |
| 33 | 5 | 317 | CHL | CHD-C4C-C3C | -5.95 | 116.09 | 124.84 |
| 28 | 6 | 621 | BCR | C11-C10-C9 | -5.95 | 118.82 | 127.31 |
| 25 | 5 | 311 | CLA | C4A-NA-C1A | 5.95 | 109.38 | 106.71 |
| 33 | 4 | 322 | CHL | O2D-CGD-CBD | 5.94 | 121.82 | 111.27 |
| 25 | A | 812 | CLA | C4A-NA-C1A | 5.93 | 109.37 | 106.71 |
| 33 | S | 307 | CHL | C2C-C3C-C4C | -5.93 | 102.26 | 106.49 |
| 25 | 4 | 310 | CLA | CAA-C2A-C3A | -5.93 | 96.55 | 112.78 |
| 25 | B | 812 | CLA | C4A-NA-C1A | 5.93 | 109.37 | 106.71 |
| 28 | 3 | 318 | BCR | C7-C8-C9 | -5.92 | 117.29 | 126.23 |
| 25 | 5 | 324 | CLA | C4A-NA-C1A | 5.91 | 109.36 | 106.71 |
| 25 | 6 | 612 | CLA | C4A-NA-C1A | 5.90 | 109.36 | 106.71 |
| 25 | Q | 613 | CLA | C4A-NA-C1A | 5.90 | 109.36 | 106.71 |
| 35 | T | 615 | XAT | C31-C30-C29 | -5.90 | 118.89 | 127.31 |
| 25 | 9 | 303 | CLA | C4A-NA-C1A | 5.89 | 109.35 | 106.71 |
| 25 | 4 | 307 | CLA | C4A-NA-C1A | 5.87 | 109.34 | 106.71 |
| 25 | a | 304 | CLA | C4A-NA-C1A | 5.87 | 109.34 | 106.71 |
| 33 | S | 321 | CHL | O2D-CGD-CBD | 5.86 | 121.68 | 111.27 |
| 33 | 1 | 601 | CHL | O2D-CGD-CBD | 5.86 | 121.68 | 111.27 |
| 25 | R | 611 | CLA | C4A-NA-C1A | 5.85 | 109.34 | 106.71 |
| 25 | U | 302 | CLA | C4A-NA-C1A | 5.85 | 109.34 | 106.71 |
| 25 | a | 303 | CLA | C6-C7-C8 | -5.85 | 97.03 | 115.92 |
| 25 | 7 | 312 | CLA | C4A-NA-C1A | 5.84 | 109.33 | 106.71 |
| 25 | F | 802 | CLA | C4A-NA-C1A | 5.82 | 109.32 | 106.71 |
| 25 | B | 835 | CLA | C4A-NA-C1A | 5.81 | 109.32 | 106.71 |
| 25 | 7 | 304 | CLA | C4A-NA-C1A | 5.81 | 109.32 | 106.71 |
| 33 | 6 | 606 | CHL | CHD-C4C-C3C | -5.80 | 116.32 | 124.84 |
| 25 | 2 | 303 | CLA | C4A-NA-C1A | 5.79 | 109.31 | 106.71 |
| 33 | 4 | 322 | CHL | CHD-C4C-C3C | -5.79 | 116.34 | 124.84 |
| 25 | T | 609 | CLA | C4A-NA-C1A | 5.79 | 109.31 | 106.71 |
| 33 | 6 | 607 | CHL | CHD-C4C-C3C | -5.78 | 116.34 | 124.84 |
| 25 | R | 610 | CLA | C4A-NA-C1A | 5.78 | 109.30 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 5 | 310 | CLA | C4A-NA-C1A | 5.78 | 109.30 | 106.71 |
| 25 | Q | 611 | CLA | C4A-NA-C1A | 5.77 | 109.30 | 106.71 |
| 25 | B | 830 | CLA | C4A-NA-C1A | 5.76 | 109.30 | 106.71 |
| 25 | B | 822 | CLA | C4A-NA-C1A | 5.74 | 109.29 | 106.71 |
| 28 | F | 801 | BCR | C20-C21-C22 | -5.74 | 119.12 | 127.31 |
| 28 | F | 803 | BCR | C11-C10-C9 | -5.73 | 119.14 | 127.31 |
| 25 | 8 | 311 | CLA | C4A-NA-C1A | 5.73 | 109.28 | 106.71 |
| 25 | 8 | 302 | CLA | C4A-NA-C1A | 5.72 | 109.28 | 106.71 |
| 25 | A | 851 | CLA | C4A-NA-C1A | 5.72 | 109.28 | 106.71 |
| 25 | 1 | 603 | CLA | C4A-NA-C1A | 5.71 | 109.28 | 106.71 |
| 33 | S | 309 | CHL | CHD-C4C-C3C | -5.71 | 116.44 | 124.84 |
| 28 | B | 841 | BCR | C3-C4-C5 | -5.69 | 103.92 | 114.08 |
| 25 | S | 301 | CLA | C4A-NA-C1A | 5.69 | 109.26 | 106.71 |
| 25 | P | 602 | CLA | C4A-NA-C1A | 5.68 | 109.26 | 106.71 |
| 25 | a | 309 | CLA | C4A-NA-C1A | 5.68 | 109.26 | 106.71 |
| 33 | 4 | 322 | CHL | CMD-C2D-C1D | 5.68 | 134.72 | 124.71 |
| 25 | H | 205 | CLA | CAA-C2A-C3A | -5.68 | 100.07 | 114.26 |
| 33 | 4 | 306 | CHL | CHD-C4C-C3C | -5.67 | 116.51 | 124.84 |
| 25 | 9 | 311 | CLA | C4A-NA-C1A | 5.67 | 109.25 | 106.71 |
| 33 | U | 309 | CHL | O2D-CGD-CBD | 5.66 | 121.32 | 111.27 |
| 28 | 3 | 318 | BCR | C19-C18-C17 | 5.65 | 127.62 | 118.94 |
| 25 | Q | 618 | CLA | C4A-NA-C1A | 5.65 | 109.25 | 106.71 |
| 33 | 5 | 317 | CHL | C2A-C1A-CHA | -5.64 | 114.00 | 123.86 |
| 33 | S | 308 | CHL | CHD-C4C-C3C | -5.63 | 116.57 | 124.84 |
| 28 | F | 801 | BCR | C16-C17-C18 | -5.62 | 119.29 | 127.31 |
| 25 | 2 | 309 | CLA | C4A-NA-C1A | 5.61 | 109.23 | 106.71 |
| 33 | 4 | 306 | CHL | C2C-C3C-C4C | -5.61 | 102.49 | 106.49 |
| 25 | 3 | 309 | CLA | C4A-NA-C1A | 5.61 | 109.23 | 106.71 |
| 33 | 6 | 608 | CHL | C2A-C1A-CHA | -5.60 | 114.06 | 123.86 |
| 25 | 6 | 611 | CLA | C4A-NA-C1A | 5.60 | 109.22 | 106.71 |
| 28 | 7 | 316 | BCR | C28-C27-C26 | -5.60 | 104.08 | 114.08 |
| 28 | L | 207 | BCR | C38-C26-C25 | -5.60 | 118.24 | 124.53 |
| 25 | 1 | 608 | CLA | C4A-NA-C1A | 5.60 | 109.22 | 106.71 |
| 28 | 3 | 319 | BCR | C7-C8-C9 | -5.59 | 117.78 | 126.23 |
| 25 | A | 825 | CLA | C4A-NA-C1A | 5.58 | 109.21 | 106.71 |
| 25 | a | 312 | CLA | C4A-NA-C1A | 5.57 | 109.21 | 106.71 |
| 25 | R | 602 | CLA | C4A-NA-C1A | 5.57 | 109.21 | 106.71 |
| 25 | B | 801 | CLA | C4A-NA-C1A | 5.55 | 109.20 | 106.71 |
| 25 | S | 311 | CLA | C4A-NA-C1A | 5.55 | 109.20 | 106.71 |
| 33 | P | 605 | CHL | CHD-C4C-C3C | -5.53 | 116.71 | 124.84 |
| 28 | 6 | 621 | BCR | C38-C26-C25 | -5.52 | 118.33 | 124.53 |
| 28 | 8 | 318 | BCR | C15-C14-C13 | -5.51 | 119.44 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | J | 101 | BCR | C38-C26-C25 | -5.51 | 118.34 | 124.53 |
| 25 | 7 | 303 | CLA | C4A-NA-C1A | 5.51 | 109.18 | 106.71 |
| 25 | 1 | 613 | CLA | C4A-NA-C1A | 5.50 | 109.18 | 106.71 |
| 25 | T | 602 | CLA | C4A-NA-C1A | 5.50 | 109.18 | 106.71 |
| 33 | 5 | 317 | CHL | O2D-CGD-CBD | 5.50 | 121.03 | 111.27 |
| 33 | S | 321 | CHL | CHD-C4C-C3C | -5.49 | 116.77 | 124.84 |
| 36 | R | 617 | NEX | C11-C10-C9 | -5.49 | 119.48 | 127.31 |
| 33 | 7 | 305 | CHL | CHD-C4C-C3C | -5.49 | 116.78 | 124.84 |
| 36 | U | 301 | NEX | C11-C10-C9 | -5.48 | 119.49 | 127.31 |
| 33 | 4 | 304 | CHL | CHD-C4C-C3C | -5.48 | 116.79 | 124.84 |
| 25 | A | 826 | CLA | C4A-NA-C1A | 5.47 | 109.17 | 106.71 |
| 25 | Q | 602 | CLA | C4A-NA-C1A | 5.47 | 109.17 | 106.71 |
| 28 | 5 | 323 | BCR | C20-C21-C22 | 5.47 | 135.12 | 127.31 |
| 28 | B | 845 | BCR | C20-C21-C22 | -5.47 | 119.50 | 127.31 |
| 34 | 6 | 619 | LUT | C35-C34-C33 | -5.47 | 119.51 | 127.31 |
| 34 | 1 | 617 | LUT | C31-C30-C29 | -5.46 | 119.52 | 127.31 |
| 35 | S | 318 | XAT | C11-C10-C9 | -5.46 | 119.52 | 127.31 |
| 33 | T | 604 | CHL | CHD-C4C-C3C | -5.46 | 116.82 | 124.84 |
| 35 | Q | 616 | XAT | C27-C28-C29 | -5.45 | 117.07 | 125.53 |
| 33 | U | 306 | CHL | CHD-C4C-C3C | -5.45 | 116.83 | 124.84 |
| 25 | B | 815 | CLA | C4A-NA-C1A | 5.44 | 109.15 | 106.71 |
| 33 | P | 606 | CHL | CHD-C4C-C3C | -5.43 | 116.85 | 124.84 |
| 34 | a | 316 | LUT | C31-C30-C29 | -5.43 | 119.56 | 127.31 |
| 33 | P | 619 | CHL | O2D-CGD-CBD | 5.43 | 120.92 | 111.27 |
| 33 | P | 622 | CHL | C1D-ND-C4D | 5.42 | 110.19 | 106.33 |
| 33 | T | 605 | CHL | CHD-C4C-C3C | -5.42 | 116.88 | 124.84 |
| 35 | Q | 616 | XAT | C31-C30-C29 | -5.41 | 119.58 | 127.31 |
| 28 | O | 204 | BCR | C24-C23-C22 | -5.41 | 118.06 | 126.23 |
| 28 | B | 845 | BCR | C24-C23-C22 | -5.41 | 118.06 | 126.23 |
| 25 | 7 | 309 | CLA | C4A-NA-C1A | 5.41 | 109.14 | 106.71 |
| 33 | P | 607 | CHL | O2D-CGD-CBD | 5.40 | 120.87 | 111.27 |
| 33 | Q | 605 | CHL | CHD-C4C-C3C | -5.40 | 116.91 | 124.84 |
| 25 | 4 | 309 | CLA | C4A-NA-C1A | 5.40 | 109.13 | 106.71 |
| 33 | R | 607 | CHL | O2D-CGD-CBD | 5.40 | 120.86 | 111.27 |
| 33 | 9 | 306 | CHL | C2A-C1A-CHA | -5.39 | 114.44 | 123.85 |
| 28 | 3 | 317 | BCR | C16-C17-C18 | -5.39 | 119.62 | 127.31 |
| 35 | P | 623 | XAT | C27-C28-C29 | -5.38 | 117.18 | 125.53 |
| 28 | G | 203 | BCR | C24-C23-C22 | -5.37 | 118.13 | 126.23 |
| 28 | 4 | 317 | BCR | C31-C1-C6 | -5.36 | 101.60 | 110.30 |
| 28 | B | 840 | BCR | C16-C17-C18 | -5.34 | 119.69 | 127.31 |
| 35 | Q | 616 | XAT | C15-C14-C13 | -5.34 | 119.69 | 127.31 |
| 28 | 4 | 321 | BCR | C30-C25-C26 | -5.34 | 115.10 | 122.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 827 | CLA | C4A-NA-C1A | 5.33 | 109.10 | 106.71 |
| 33 | Q | 606 | CHL | C2A-C1A-CHA | -5.33 | 114.55 | 123.86 |
| 33 | S | 310 | CHL | C2A-C1A-CHA | -5.32 | 114.55 | 123.86 |
| 28 | K | 206 | BCR | C28-C27-C26 | -5.32 | 104.57 | 114.08 |
| 33 | U | 307 | CHL | CHD-C4C-C3C | -5.32 | 117.02 | 124.84 |
| 25 | U | 311 | CLA | C4A-NA-C1A | 5.32 | 109.10 | 106.71 |
| 28 | 4 | 317 | BCR | C28-C27-C26 | -5.30 | 104.61 | 114.08 |
| 33 | U | 305 | CHL | CHD-C4C-C3C | -5.30 | 117.05 | 124.84 |
| 25 | B | 823 | CLA | C4A-NA-C1A | 5.30 | 109.09 | 106.71 |
| 34 | 2 | 315 | LUT | C35-C34-C33 | -5.29 | 119.76 | 127.31 |
| 28 | 3 | 317 | BCR | C28-C27-C26 | -5.29 | 104.63 | 114.08 |
| 33 | S | 306 | CHL | C1D-ND-C4D | 5.28 | 110.09 | 106.33 |
| 33 | 6 | 617 | CHL | C2A-C1A-CHA | -5.26 | 114.67 | 123.86 |
| 33 | S | 310 | CHL | CHD-C4C-C3C | -5.25 | 117.12 | 124.84 |
| 35 | T | 615 | XAT | C35-C34-C33 | -5.25 | 119.81 | 127.31 |
| 33 | R | 606 | CHL | CHD-C4C-C3C | -5.25 | 117.12 | 124.84 |
| 36 | U | 301 | NEX | C27-C28-C29 | -5.25 | 117.39 | 125.53 |
| 33 | U | 308 | CHL | CHD-C4C-C3C | -5.24 | 117.13 | 124.84 |
| 34 | R | 615 | LUT | C35-C34-C33 | -5.23 | 119.84 | 127.31 |
| 33 | Q | 606 | CHL | CHD-C4C-C3C | -5.23 | 117.15 | 124.84 |
| 28 | 5 | 320 | BCR | C3-C4-C5 | -5.23 | 104.74 | 114.08 |
| 33 | T | 606 | CHL | CHD-C4C-C3C | -5.22 | 117.16 | 124.84 |
| 28 | 6 | 621 | BCR | C1-C6-C5 | -5.21 | 115.28 | 122.61 |
| 25 | a | 303 | CLA | C1-O2A-CGA | 5.21 | 130.11 | 116.44 |
| 25 | R | 611 | CLA | C6-C5-C3 | 5.21 | 127.11 | 113.45 |
| 33 | 5 | 307 | CHL | CHD-C4C-C3C | -5.20 | 117.19 | 124.84 |
| 33 | 6 | 617 | CHL | CHD-C4C-C3C | -5.20 | 117.20 | 124.84 |
| 33 | 8 | 307 | CHL | CHD-C4C-C3C | -5.20 | 117.20 | 124.84 |
| 28 | G | 203 | BCR | C16-C17-C18 | -5.19 | 119.90 | 127.31 |
| 36 | T | 616 | NEX | C11-C10-C9 | -5.18 | 119.92 | 127.31 |
| 33 | P | 619 | CHL | CHD-C4C-C3C | -5.18 | 117.23 | 124.84 |
| 33 | T | 601 | CHL | C1D-ND-C4D | 5.18 | 110.01 | 106.33 |
| 36 | U | 316 | NEX | C11-C10-C9 | -5.18 | 119.92 | 127.31 |
| 33 | P | 607 | CHL | CHD-C4C-C3C | -5.17 | 117.23 | 124.84 |
| 35 | P | 616 | XAT | C27-C28-C29 | -5.17 | 117.51 | 125.53 |
| 33 | T | 605 | CHL | C2A-C1A-CHA | -5.17 | 114.82 | 123.86 |
| 28 | J | 106 | BCR | C28-C27-C26 | -5.16 | 104.86 | 114.08 |
| 33 | 9 | 307 | CHL | CHD-C4C-C3C | -5.16 | 117.26 | 124.84 |
| 36 | P | 617 | NEX | C11-C10-C9 | -5.15 | 119.96 | 127.31 |
| 28 | A | 854 | BCR | C24-C23-C22 | -5.14 | 118.47 | 126.23 |
| 28 | A | 848 | BCR | C11-C10-C9 | -5.14 | 119.97 | 127.31 |
| 28 | G | 203 | BCR | C20-C21-C22 | -5.14 | 119.97 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 1 | 601 | CHL | C2A-C1A-CHA | -5.14 | 114.87 | 123.86 |
| 35 | P | 620 | XAT | C27-C28-C29 | -5.14 | 117.56 | 125.53 |
| 28 | A | 845 | BCR | C28-C27-C26 | -5.14 | 104.90 | 114.08 |
| 27 | A | 852 | LHG | O7-C7-C8 | 5.14 | 122.57 | 111.50 |
| 28 | A | 849 | BCR | C20-C21-C22 | -5.14 | 119.98 | 127.31 |
| 33 | R | 608 | CHL | CHD-C4C-C3C | -5.12 | 117.31 | 124.84 |
| 33 | P | 607 | CHL | C2A-C1A-CHA | -5.12 | 114.90 | 123.86 |
| 33 | U | 309 | CHL | C1B-CHB-C4A | -5.12 | 119.97 | 130.12 |
| 33 | R | 607 | CHL | CHD-C4C-C3C | -5.12 | 117.31 | 124.84 |
| 33 | P | 619 | CHL | C2A-C1A-CHA | -5.12 | 114.91 | 123.86 |
| 33 | R | 607 | CHL | C2A-C1A-CHA | -5.12 | 114.91 | 123.86 |
| 33 | P | 606 | CHL | C2A-C1A-CHA | -5.11 | 114.92 | 123.86 |
| 36 | P | 617 | NEX | C27-C28-C29 | -5.11 | 117.60 | 125.53 |
| 28 | B | 844 | BCR | C24-C23-C22 | -5.10 | 118.53 | 126.23 |
| 34 | a | 314 | LUT | C35-C34-C33 | -5.10 | 120.03 | 127.31 |
| 33 | P | 608 | CHL | CHD-C4C-C3C | -5.10 | 117.34 | 124.84 |
| 33 | Q | 607 | CHL | CHD-C4C-C3C | -5.10 | 117.35 | 124.84 |
| 33 | U | 307 | CHL | C2A-C1A-CHA | -5.10 | 114.95 | 123.86 |
| 33 | R | 606 | CHL | O2D-CGD-CBD | 5.09 | 120.31 | 111.27 |
| 33 | S | 321 | CHL | C2A-C1A-CHA | -5.08 | 114.97 | 123.86 |
| 25 | 1 | 610 | CLA | C4A-NA-C1A | 5.08 | 108.99 | 106.71 |
| 35 | P | 623 | XAT | O24-C25-C38 | 5.07 | 121.14 | 115.06 |
| 28 | A | 846 | BCR | C16-C17-C18 | -5.07 | 120.07 | 127.31 |
| 28 | B | 842 | BCR | C16-C17-C18 | -5.07 | 120.07 | 127.31 |
| 28 | O | 204 | BCR | C20-C21-C22 | -5.07 | 120.07 | 127.31 |
| 33 | 1 | 601 | CHL | CMD-C2D-C1D | 5.07 | 133.65 | 124.71 |
| 33 | 8 | 307 | CHL | C2A-C1A-CHA | -5.07 | 115.00 | 123.86 |
| 34 | a | 316 | LUT | C35-C34-C33 | -5.06 | 120.09 | 127.31 |
| 35 | P | 616 | XAT | C15-C14-C13 | -5.05 | 120.10 | 127.31 |
| 33 | 8 | 307 | CHL | OBD-CAD-C3D | -5.05 | 116.36 | 128.52 |
| 33 | Q | 606 | CHL | O2D-CGD-CBD | 5.05 | 120.24 | 111.27 |
| 28 | 3 | 317 | BCR | C3-C4-C5 | -5.05 | 105.06 | 114.08 |
| 33 | 4 | 314 | CHL | CHD-C4C-C3C | -5.04 | 117.43 | 124.84 |
| 28 | L | 204 | BCR | C16-C17-C18 | -5.03 | 120.14 | 127.31 |
| 28 | 3 | 319 | BCR | C12-C13-C14 | 5.02 | 126.65 | 118.94 |
| 33 | P | 606 | CHL | O2D-CGD-CBD | 5.01 | 120.17 | 111.27 |
| 28 | 3 | 318 | BCR | C24-C23-C22 | -5.00 | 118.67 | 126.23 |
| 33 | P | 605 | CHL | C2A-C1A-CHA | -5.00 | 115.11 | 123.86 |
| 33 | U | 309 | CHL | C1D-ND-C4D | 5.00 | 109.88 | 106.33 |
| 33 | S | 309 | CHL | C2A-C1A-CHA | -4.99 | 115.13 | 123.86 |
| 33 | P | 622 | CHL | O2D-CGD-CBD | 4.99 | 120.13 | 111.27 |
| 33 | T | 607 | CHL | O2D-CGD-CBD | 4.98 | 120.13 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 35 | P | 620 | XAT | C35-C34-C33 | -4.98 | 120.20 | 127.31 |
| 35 | P | 616 | XAT | C35-C34-C33 | -4.98 | 120.20 | 127.31 |
| 33 | 4 | 322 | CHL | C2A-C1A-CHA | -4.97 | 115.16 | 123.86 |
| 33 | 7 | 305 | CHL | C2A-C1A-CHA | -4.97 | 115.16 | 123.86 |
| 33 | T | 601 | CHL | O2D-CGD-CBD | 4.97 | 120.09 | 111.27 |
| 36 | T | 616 | NEX | C27-C28-C29 | -4.96 | 117.83 | 125.53 |
| 28 | B | 840 | BCR | C11-C10-C9 | -4.96 | 120.23 | 127.31 |
| 33 | a | 305 | CHL | CHD-C4C-C3C | -4.96 | 117.55 | 124.84 |
| 33 | T | 607 | CHL | C1D-ND-C4D | 4.95 | 109.85 | 106.33 |
| 33 | U | 306 | CHL | C2A-C1A-CHA | -4.95 | 115.21 | 123.86 |
| 28 | B | 845 | BCR | C16-C17-C18 | -4.95 | 120.25 | 127.31 |
| 28 | L | 204 | BCR | C33-C5-C6 | -4.94 | 118.98 | 124.53 |
| 34 | Q | 614 | LUT | C7-C8-C9 | -4.93 | 118.78 | 126.23 |
| 28 | 5 | 323 | BCR | C19-C18-C17 | 4.93 | 126.50 | 118.94 |
| 28 | A | 849 | BCR | C7-C8-C9 | -4.92 | 118.81 | 126.23 |
| 25 | A | 801 | CLA | C4A-NA-C1A | 4.92 | 108.92 | 106.71 |
| 35 | T | 615 | XAT | C15-C14-C13 | -4.91 | 120.30 | 127.31 |
| 33 | T | 607 | CHL | C1B-CHB-C4A | -4.91 | 120.40 | 130.12 |
| 28 | 4 | 321 | BCR | C33-C5-C6 | -4.90 | 119.02 | 124.53 |
| 34 | 1 | 615 | LUT | C35-C34-C33 | -4.90 | 120.32 | 127.31 |
| 28 | B | 844 | BCR | C15-C14-C13 | -4.90 | 120.32 | 127.31 |
| 33 | T | 605 | CHL | O2D-CGD-CBD | 4.90 | 119.97 | 111.27 |
| 35 | P | 623 | XAT | C35-C34-C33 | -4.89 | 120.33 | 127.31 |
| 33 | 1 | 606 | CHL | CHD-C4C-C3C | -4.89 | 117.65 | 124.84 |
| 33 | S | 310 | CHL | O2D-CGD-CBD | 4.89 | 119.96 | 111.27 |
| 33 | S | 308 | CHL | C2A-C1A-CHA | -4.89 | 115.31 | 123.86 |
| 33 | R | 605 | CHL | CHD-C4C-C3C | -4.88 | 117.66 | 124.84 |
| 33 | P | 601 | CHL | C1D-ND-C4D | 4.88 | 109.80 | 106.33 |
| 34 | 4 | 315 | LUT | C35-C34-C33 | -4.88 | 120.34 | 127.31 |
| 33 | 5 | 308 | CHL | C2A-C1A-CHA | -4.88 | 115.33 | 123.86 |
| 34 | P | 614 | LUT | C35-C34-C33 | -4.87 | 120.35 | 127.31 |
| 33 | P | 601 | CHL | O2D-CGD-CBD | 4.87 | 119.93 | 111.27 |
| 33 | U | 307 | CHL | O2D-CGD-CBD | 4.87 | 119.93 | 111.27 |
| 33 | 4 | 305 | CHL | O2D-CGD-CBD | 4.87 | 119.93 | 111.27 |
| 33 | 4 | 314 | CHL | O2D-CGD-CBD | 4.87 | 119.92 | 111.27 |
| 33 | Q | 601 | CHL | C1D-ND-C4D | 4.86 | 109.79 | 106.33 |
| 33 | R | 601 | CHL | O2D-CGD-CBD | 4.86 | 119.91 | 111.27 |
| 28 | K | 206 | BCR | C16-C15-C14 | -4.86 | 113.51 | 123.47 |
| 36 | P | 621 | NEX | O24-C25-C38 | 4.86 | 120.88 | 115.06 |
| 35 | T | 615 | XAT | C27-C28-C29 | -4.86 | 117.99 | 125.53 |
| 28 | 3 | 318 | BCR | C20-C19-C18 | -4.86 | 112.77 | 126.42 |
| 33 | 6 | 606 | CHL | C2A-C1A-CHA | -4.85 | 115.37 | 123.86 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | Q | 601 | CHL | O2D-CGD-CBD | 4.85 | 119.88 | 111.27 |
| 28 | A | 848 | BCR | C16-C17-C18 | -4.84 | 120.40 | 127.31 |
| 33 | T | 606 | CHL | C2A-C1A-CHA | -4.84 | 115.40 | 123.86 |
| 33 | R | 601 | CHL | C1D-ND-C4D | 4.83 | 109.76 | 106.33 |
| 28 | L | 208 | BCR | C15-C14-C13 | -4.82 | 120.43 | 127.31 |
| 34 | T | 613 | LUT | C35-C34-C33 | -4.82 | 120.43 | 127.31 |
| 33 | 3 | 306 | CHL | C2A-C1A-CHA | -4.82 | 115.43 | 123.86 |
| 35 | P | 623 | XAT | C15-C14-C13 | -4.82 | 120.43 | 127.31 |
| 34 | S | 317 | LUT | C31-C30-C29 | -4.81 | 120.44 | 127.31 |
| 28 | J | 101 | BCR | C3-C4-C5 | -4.81 | 105.48 | 114.08 |
| 34 | Q | 614 | LUT | C35-C34-C33 | -4.79 | 120.48 | 127.31 |
| 33 | R | 606 | CHL | C2A-C1A-CHA | -4.78 | 115.50 | 123.86 |
| 28 | L | 204 | BCR | C38-C26-C25 | -4.78 | 119.16 | 124.53 |
| 33 | Q | 607 | CHL | C2A-C1A-CHA | -4.77 | 115.51 | 123.86 |
| 33 | 6 | 617 | CHL | O2D-CGD-CBD | 4.77 | 119.74 | 111.27 |
| 32 | 1 | 619 | LMG | O7-C10-C11 | 4.77 | 121.77 | 111.50 |
| 33 | P | 608 | CHL | C2A-C1A-CHA | -4.77 | 115.53 | 123.86 |
| 28 | L | 203 | BCR | C15-C16-C17 | -4.77 | 113.71 | 123.47 |
| 33 | 6 | 608 | CHL | O2D-CGD-CBD | 4.77 | 119.74 | 111.27 |
| 35 | P | 620 | XAT | C15-C14-C13 | -4.76 | 120.51 | 127.31 |
| 33 | R | 608 | CHL | C2A-C1A-CHA | -4.76 | 115.53 | 123.86 |
| 33 | S | 306 | CHL | CHD-C4C-C3C | -4.76 | 117.84 | 124.84 |
| 33 | S | 307 | CHL | CHD-C4C-C3C | -4.76 | 117.84 | 124.84 |
| 33 | S | 308 | CHL | O2D-CGD-CBD | 4.75 | 119.71 | 111.27 |
| 33 | R | 605 | CHL | O2D-CGD-CBD | 4.75 | 119.71 | 111.27 |
| 34 | T | 613 | LUT | C7-C8-C9 | -4.75 | 119.06 | 126.23 |
| 35 | S | 318 | XAT | C15-C14-C13 | -4.75 | 120.54 | 127.31 |
| 33 | U | 309 | CHL | CED-O2D-CGD | 4.74 | 126.66 | 115.94 |
| 28 | 4 | 321 | BCR | C15-C14-C13 | -4.73 | 120.56 | 127.31 |
| 28 | 8 | 318 | BCR | C28-C27-C26 | -4.73 | 105.64 | 114.08 |
| 33 | U | 306 | CHL | O2D-CGD-CBD | 4.73 | 119.67 | 111.27 |
| 28 | A | 847 | BCR | C16-C17-C18 | -4.73 | 120.56 | 127.31 |
| 33 | 6 | 607 | CHL | C2A-C1A-CHA | -4.72 | 115.60 | 123.86 |
| 28 | 3 | 317 | BCR | C33-C5-C6 | -4.72 | 119.23 | 124.53 |
| 33 | 4 | 314 | CHL | C2A-C1A-CHA | -4.72 | 115.61 | 123.86 |
| 32 | 7 | 319 | LMG | O7-C10-C11 | 4.71 | 121.66 | 111.50 |
| 33 | 4 | 305 | CHL | C1D-ND-C4D | 4.71 | 109.68 | 106.33 |
| 36 | U | 316 | NEX | C27-C28-C29 | -4.70 | 118.24 | 125.53 |
| 33 | 9 | 307 | CHL | C2A-C1A-CHA | -4.69 | 115.67 | 123.86 |
| 28 | F | 803 | BCR | C7-C8-C9 | -4.69 | 119.16 | 126.23 |
| 28 | A | 848 | BCR | C15-C14-C13 | -4.68 | 120.63 | 127.31 |
| 33 | 5 | 308 | CHL | CAC-C3C-C4C | 4.68 | 130.88 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | S | 307 | CHL | C2A-C1A-CHA | -4.68 | 115.68 | 123.86 |
| 33 | 1 | 601 | CHL | C1-C2-C3 | -4.68 | 117.96 | 126.04 |
| 33 | 4 | 306 | CHL | C2A-C1A-CHA | -4.67 | 115.69 | 123.86 |
| 27 | 7 | 317 | LHG | O7-C7-C8 | 4.67 | 121.56 | 111.50 |
| 33 | 4 | 304 | CHL | O2D-CGD-CBD | 4.66 | 119.55 | 111.27 |
| 28 | L | 207 | BCR | C11-C10-C9 | -4.66 | 120.66 | 127.31 |
| 33 | U | 308 | CHL | C2A-C1A-CHA | -4.66 | 115.72 | 123.86 |
| 34 | U | 314 | LUT | C35-C34-C33 | -4.65 | 120.67 | 127.31 |
| 28 | A | 845 | BCR | C16-C17-C18 | -4.65 | 120.68 | 127.31 |
| 28 | 6 | 621 | BCR | C15-C14-C13 | -4.64 | 120.69 | 127.31 |
| 34 | 3 | 315 | LUT | C18-C5-C6 | -4.63 | 119.32 | 124.53 |
| 28 | B | 845 | BCR | C33-C5-C6 | -4.62 | 119.33 | 124.53 |
| 28 | 7 | 316 | BCR | C15-C14-C13 | -4.62 | 120.71 | 127.31 |
| 28 | G | 203 | BCR | C7-C8-C9 | -4.62 | 119.25 | 126.23 |
| 28 | I | 201 | BCR | C3-C4-C5 | -4.62 | 105.83 | 114.08 |
| 35 | Q | 616 | XAT | C11-C10-C9 | -4.61 | 120.73 | 127.31 |
| 34 | 1 | 617 | LUT | C35-C34-C33 | -4.60 | 120.75 | 127.31 |
| 28 | L | 203 | BCR | C7-C8-C9 | -4.60 | 119.29 | 126.23 |
| 28 | 3 | 318 | BCR | C36-C18-C17 | -4.60 | 116.48 | 122.92 |
| 34 | a | 315 | LUT | C7-C8-C9 | -4.59 | 119.30 | 126.23 |
| 25 | Q | 618 | CLA | C2A-C1A-CHA | 4.59 | 129.82 | 122.71 |
| 28 | B | 841 | BCR | C4-C5-C6 | -4.59 | 116.07 | 122.73 |
| 28 | O | 204 | BCR | C16-C17-C18 | -4.58 | 120.78 | 127.31 |
| 27 | 6 | 618 | LHG | O7-C7-C8 | 4.57 | 121.36 | 111.50 |
| 34 | a | 316 | LUT | C1-C6-C5 | -4.57 | 116.18 | 122.61 |
| 33 | P | 622 | CHL | C1B-CHB-C4A | -4.56 | 121.09 | 130.12 |
| 33 | 1 | 606 | CHL | C1B-CHB-C4A | -4.56 | 121.09 | 130.12 |
| 28 | 3 | 319 | BCR | C38-C26-C25 | -4.55 | 119.42 | 124.53 |
| 33 | a | 305 | CHL | C1B-CHB-C4A | -4.55 | 121.10 | 130.12 |
| 33 | 1 | 606 | CHL | C1D-ND-C4D | 4.55 | 109.57 | 106.33 |
| 28 | A | 854 | BCR | C15-C14-C13 | -4.55 | 120.82 | 127.31 |
| 35 | P | 620 | XAT | O24-C25-C38 | 4.54 | 120.50 | 115.06 |
| 28 | 8 | 318 | BCR | C3-C4-C5 | -4.54 | 105.97 | 114.08 |
| 28 | A | 846 | BCR | C11-C10-C9 | -4.53 | 120.85 | 127.31 |
| 25 | Q | 602 | CLA | CMB-C2B-C1B | -4.53 | 121.50 | 128.46 |
| 35 | S | 318 | XAT | C6-C7-C8 | -4.52 | 116.44 | 125.99 |
| 33 | U | 309 | CHL | CHD-C4C-C3C | -4.52 | 118.20 | 124.84 |
| 33 | 5 | 307 | CHL | CMD-C2D-C3D | -4.52 | 117.22 | 127.61 |
| 33 | 4 | 305 | CHL | CHD-C4C-C3C | -4.51 | 118.22 | 124.84 |
| 28 | K | 206 | BCR | C3-C4-C5 | -4.50 | 106.04 | 114.08 |
| 28 | 5 | 320 | BCR | C24-C23-C22 | -4.50 | 119.44 | 126.23 |
| 33 | 6 | 606 | CHL | O2D-CGD-CBD | 4.49 | 119.25 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | 3 | 317 | BCR | C24-C23-C22 | -4.49 | 119.45 | 126.23 |
| 33 | 9 | 307 | CHL | O2D-CGD-CBD | 4.49 | 119.25 | 111.27 |
| 33 | 8 | 307 | CHL | C1D-ND-C4D | 4.49 | 109.52 | 106.33 |
| 35 | S | 318 | XAT | O4-C5-C18 | 4.47 | 120.42 | 115.06 |
| 30 | B | 846 | DGD | C2G-O2G-C1B | -4.47 | 106.80 | 117.79 |
| 28 | 5 | 323 | BCR | C3-C4-C5 | -4.46 | 106.11 | 114.08 |
| 25 | P | 611 | CLA | CMD-C2D-C3D | -4.46 | 117.36 | 127.61 |
| 33 | 4 | 305 | CHL | CHD-C1D-ND | -4.45 | 120.36 | 124.45 |
| 33 | Q | 601 | CHL | CHD-C1D-ND | -4.45 | 120.37 | 124.45 |
| 28 | 3 | 319 | BCR | C11-C12-C13 | -4.45 | 113.92 | 126.42 |
| 34 | 1 | 616 | LUT | C7-C8-C9 | -4.45 | 119.52 | 126.23 |
| 33 | R | 601 | CHL | CHD-C1D-ND | -4.45 | 120.37 | 124.45 |
| 25 | a | 303 | CLA | C7-C6-C5 | -4.44 | 101.30 | 113.36 |
| 35 | T | 615 | XAT | O24-C25-C38 | 4.44 | 120.38 | 115.06 |
| 34 | P | 615 | LUT | C31-C30-C29 | -4.44 | 120.98 | 127.31 |
| 33 | 7 | 305 | CHL | O2D-CGD-CBD | 4.44 | 119.15 | 111.27 |
| 28 | J | 106 | BCR | C15-C14-C13 | -4.43 | 120.99 | 127.31 |
| 28 | 3 | 319 | BCR | C35-C13-C14 | -4.43 | 116.72 | 122.92 |
| 25 | 5 | 304 | CLA | CMB-C2B-C1B | -4.43 | 121.66 | 128.46 |
| 33 | P | 601 | CHL | CHD-C1D-ND | -4.43 | 120.39 | 124.45 |
| 28 | 3 | 318 | BCR | C12-C13-C14 | 4.43 | 125.73 | 118.94 |
| 28 | 3 | 319 | BCR | C36-C18-C17 | -4.43 | 116.72 | 122.92 |
| 33 | R | 601 | CHL | C1B-CHB-C4A | -4.42 | 121.36 | 130.12 |
| 28 | F | 803 | BCR | C38-C26-C25 | -4.42 | 119.56 | 124.53 |
| 33 | T | 607 | CHL | CHD-C4C-C3C | -4.42 | 118.34 | 124.84 |
| 33 | a | 305 | CHL | C1D-ND-C4D | 4.41 | 109.47 | 106.33 |
| 28 | 3 | 317 | BCR | C36-C18-C17 | -4.41 | 116.75 | 122.92 |
| 25 | A | 819 | CLA | CMB-C2B-C1B | -4.41 | 121.69 | 128.46 |
| 33 | P | 601 | CHL | C1B-CHB-C4A | -4.41 | 121.39 | 130.12 |
| 33 | Q | 601 | CHL | C1B-CHB-C4A | -4.40 | 121.40 | 130.12 |
| 34 | 8 | 316 | LUT | C35-C34-C33 | -4.40 | 121.03 | 127.31 |
| 28 | 6 | 621 | BCR | C4-C5-C6 | -4.40 | 116.35 | 122.73 |
| 28 | B | 841 | BCR | C15-C14-C13 | -4.40 | 121.04 | 127.31 |
| 33 | 4 | 322 | CHL | C1-C2-C3 | -4.39 | 118.44 | 126.04 |
| 28 | 3 | 319 | BCR | C24-C23-C22 | -4.39 | 119.60 | 126.23 |
| 35 | P | 616 | XAT | O4-C5-C18 | 4.39 | 120.31 | 115.06 |
| 28 | B | 842 | BCR | C7-C8-C9 | -4.38 | 119.61 | 126.23 |
| 28 | 5 | 323 | BCR | C23-C24-C25 | -4.38 | 114.89 | 127.20 |
| 28 | A | 854 | BCR | C28-C27-C26 | -4.38 | 106.26 | 114.08 |
| 33 | S | 302 | CHL | C2A-C1A-CHA | -4.37 | 116.21 | 123.86 |
| 25 | A | 812 | CLA | CMB-C2B-C1B | -4.37 | 121.75 | 128.46 |
| 33 | Q | 605 | CHL | O2D-CGD-CBD | 4.37 | 119.03 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | 5 | 323 | BCR | C21-C20-C19 | -4.37 | 109.59 | 123.22 |
| 33 | 3 | 306 | CHL | CMD-C2D-C3D | -4.36 | 117.58 | 127.61 |
| 36 | T | 616 | NEX | O24-C25-C38 | 4.36 | 120.28 | 115.06 |
| 33 | a | 305 | CHL | CHD-C1D-ND | -4.36 | 120.45 | 124.45 |
| 33 | Q | 605 | CHL | C2A-C1A-CHA | -4.35 | 116.25 | 123.85 |
| 34 | P | 614 | LUT | C7-C8-C9 | -4.35 | 119.66 | 126.23 |
| 27 | 5 | 321 | LHG | O7-C7-C8 | 4.35 | 120.88 | 111.50 |
| 33 | 1 | 606 | CHL | O2D-CGD-CBD | 4.35 | 119.00 | 111.27 |
| 25 | A | 802 | CLA | CMB-C2B-C1B | -4.33 | 121.80 | 128.46 |
| 33 | 4 | 306 | CHL | O2D-CGD-CBD | 4.33 | 118.96 | 111.27 |
| 33 | 4 | 322 | CHL | C7-C6-C5 | -4.33 | 94.16 | 112.67 |
| 33 | P | 622 | CHL | CHD-C4C-C3C | -4.33 | 118.48 | 124.84 |
| 28 | L | 208 | BCR | C24-C23-C22 | -4.32 | 119.71 | 126.23 |
| 25 | U | 302 | CLA | CMB-C2B-C1B | -4.32 | 121.83 | 128.46 |
| 25 | R | 602 | CLA | CMB-C2B-C1B | -4.32 | 121.83 | 128.46 |
| 34 | 7 | 315 | LUT | C18-C5-C6 | -4.31 | 119.69 | 124.53 |
| 33 | 9 | 306 | CHL | CMD-C2D-C3D | -4.31 | 117.70 | 127.61 |
| 28 | 5 | 323 | BCR | C38-C26-C25 | -4.30 | 119.70 | 124.53 |
| 28 | K | 206 | BCR | C24-C23-C22 | -4.30 | 119.74 | 126.23 |
| 33 | 7 | 305 | CHL | CMD-C2D-C3D | -4.30 | 117.72 | 127.61 |
| 28 | 4 | 317 | BCR | C8-C7-C6 | -4.30 | 115.13 | 127.20 |
| 28 | A | 848 | BCR | C3-C4-C5 | -4.30 | 106.40 | 114.08 |
| 25 | G | 202 | CLA | CMB-C2B-C1B | -4.30 | 121.86 | 128.46 |
| 33 | T | 601 | CHL | C1B-CHB-C4A | -4.29 | 121.62 | 130.12 |
| 33 | 6 | 608 | CHL | CAC-C3C-C4C | 4.29 | 130.38 | 124.81 |
| 35 | P | 616 | XAT | C11-C10-C9 | -4.29 | 121.19 | 127.31 |
| 36 | P | 621 | NEX | C11-C10-C9 | -4.29 | 121.19 | 127.31 |
| 35 | P | 616 | XAT | O24-C25-C38 | 4.28 | 120.19 | 115.06 |
| 34 | 2 | 315 | LUT | C18-C5-C6 | -4.28 | 119.72 | 124.53 |
| 28 | A | 845 | BCR | C24-C23-C22 | -4.28 | 119.77 | 126.23 |
| 25 | R | 611 | CLA | C1-C2-C3 | 4.27 | 133.43 | 126.04 |
| 35 | Q | 616 | XAT | O4-C5-C18 | 4.27 | 120.17 | 115.06 |
| 28 | 3 | 319 | BCR | C20-C21-C22 | -4.27 | 121.22 | 127.31 |
| 28 | 3 | 319 | BCR | C19-C18-C17 | 4.27 | 125.49 | 118.94 |
| 33 | 8 | 307 | CHL | CMD-C2D-C3D | -4.27 | 117.80 | 127.61 |
| 33 | 9 | 306 | CHL | O2D-CGD-CBD | 4.27 | 118.85 | 111.27 |
| 33 | P | 619 | CHL | CMD-C2D-C3D | -4.27 | 117.80 | 127.61 |
| 33 | S | 307 | CHL | CMD-C2D-C3D | -4.26 | 117.80 | 127.61 |
| 36 | P | 617 | NEX | C17-C1-C6 | -4.26 | 106.66 | 110.47 |
| 28 | 3 | 318 | BCR | C38-C26-C25 | -4.26 | 119.74 | 124.53 |
| 33 | S | 307 | CHL | C1D-ND-C4D | 4.26 | 109.36 | 106.33 |
| 34 | Q | 615 | LUT | C31-C30-C29 | -4.26 | 121.23 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | U | 309 | CHL | CHD-C1D-ND | -4.26 | 120.54 | 124.45 |
| 34 | 9 | 312 | LUT | C35-C34-C33 | -4.26 | 121.23 | 127.31 |
| 33 | P | 607 | CHL | CMD-C2D-C3D | -4.25 | 117.83 | 127.61 |
| 33 | R | 607 | CHL | CMD-C2D-C3D | -4.25 | 117.83 | 127.61 |
| 25 | Q | 609 | CLA | CMB-C2B-C1B | -4.25 | 121.93 | 128.46 |
| 28 | L | 207 | BCR | C7-C8-C9 | -4.25 | 119.81 | 126.23 |
| 33 | 9 | 307 | CHL | C1D-ND-C4D | 4.25 | 109.35 | 106.33 |
| 28 | B | 844 | BCR | C7-C8-C9 | -4.24 | 119.82 | 126.23 |
| 33 | 5 | 308 | CHL | O2D-CGD-CBD | 4.24 | 118.80 | 111.27 |
| 33 | 4 | 305 | CHL | CMD-C2D-C3D | -4.24 | 117.86 | 127.61 |
| 25 | S | 301 | CLA | CMB-C2B-C1B | -4.24 | 121.95 | 128.46 |
| 33 | T | 601 | CHL | CHD-C1D-ND | -4.24 | 120.56 | 124.45 |
| 28 | J | 101 | BCR | C33-C5-C6 | -4.24 | 119.77 | 124.53 |
| 35 | Q | 616 | XAT | O24-C25-C38 | 4.23 | 120.12 | 115.06 |
| 25 | 2 | 309 | CLA | CMB-C2B-C1B | -4.23 | 121.97 | 128.46 |
| 33 | P | 605 | CHL | O2D-CGD-CBD | 4.22 | 118.77 | 111.27 |
| 32 | H | 204 | LMG | O7-C10-C11 | 4.22 | 120.60 | 111.50 |
| 27 | 4 | 319 | LHG | O7-C7-C8 | 4.21 | 120.58 | 111.50 |
| 28 | 5 | 320 | BCR | C16-C17-C18 | -4.21 | 121.30 | 127.31 |
| 33 | T | 604 | CHL | C2A-C1A-CHA | -4.21 | 116.50 | 123.86 |
| 34 | U | 315 | LUT | C31-C30-C29 | -4.20 | 121.31 | 127.31 |
| 28 | 3 | 317 | BCR | C15-C14-C13 | -4.20 | 121.31 | 127.31 |
| 28 | A | 845 | BCR | C15-C14-C13 | -4.20 | 121.31 | 127.31 |
| 25 | Q | 618 | CLA | CBD-CHA-C1A | 4.20 | 133.45 | 128.50 |
| 28 | 5 | 323 | BCR | C16-C15-C14 | -4.20 | 114.88 | 123.47 |
| 28 | A | 848 | BCR | C7-C8-C9 | -4.20 | 119.90 | 126.23 |
| 28 | A | 845 | BCR | C3-C4-C5 | -4.19 | 106.59 | 114.08 |
| 25 | H | 205 | CLA | CMB-C2B-C1B | -4.19 | 122.02 | 128.46 |
| 33 | T | 606 | CHL | O2D-CGD-CBD | 4.19 | 118.72 | 111.27 |
| 28 | B | 844 | BCR | C15-C16-C17 | -4.19 | 114.89 | 123.47 |
| 34 | 1 | 617 | LUT | C1-C6-C5 | -4.19 | 116.71 | 122.61 |
| 28 | A | 854 | BCR | C16-C17-C18 | -4.19 | 121.33 | 127.31 |
| 33 | 4 | 305 | CHL | C1B-CHB-C4A | -4.18 | 121.83 | 130.12 |
| 25 | A | 821 | CLA | O2D-CGD-O1D | -4.18 | 115.66 | 123.84 |
| 33 | S | 306 | CHL | O2D-CGD-CBD | 4.18 | 118.69 | 111.27 |
| 28 | J | 106 | BCR | C38-C26-C25 | -4.18 | 119.84 | 124.53 |
| 36 | R | 617 | NEX | C27-C28-C29 | -4.18 | 119.05 | 125.53 |
| 35 | T | 615 | XAT | C11-C10-C9 | -4.18 | 121.35 | 127.31 |
| 33 | 6 | 608 | CHL | CMD-C2D-C3D | -4.17 | 118.01 | 127.61 |
| 32 | 7 | 318 | LMG | O7-C10-C11 | 4.17 | 120.49 | 111.50 |
| 33 | 5 | 307 | CHL | C1-C2-C3 | -4.17 | 120.00 | 126.75 |
| 25 | a | 303 | CLA | CMB-C2B-C1B | -4.17 | 122.05 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | U | 307 | CHL | CMD-C2D-C3D | -4.17 | 118.03 | 127.61 |
| 33 | 5 | 307 | CHL | C2A-C1A-CHA | -4.17 | 116.58 | 123.86 |
| 35 | Q | 616 | XAT | C6-C7-C8 | -4.16 | 117.19 | 125.99 |
| 33 | S | 321 | CHL | CMD-C2D-C3D | -4.16 | 118.04 | 127.61 |
| 33 | P | 622 | CHL | CAC-C3C-C4C | 4.16 | 130.21 | 124.81 |
| 25 | B | 803 | CLA | CMB-C2B-C1B | -4.16 | 122.08 | 128.46 |
| 28 | G | 203 | BCR | C11-C10-C9 | -4.15 | 121.39 | 127.31 |
| 33 | U | 305 | CHL | O2D-CGD-CBD | 4.15 | 118.64 | 111.27 |
| 33 | T | 607 | CHL | CMD-C2D-C3D | -4.15 | 118.07 | 127.61 |
| 25 | T | 602 | CLA | CMB-C2B-C1B | -4.14 | 122.10 | 128.46 |
| 25 | A | 801 | CLA | CMB-C2B-C1B | -4.14 | 122.10 | 128.46 |
| 25 | 1 | 609 | CLA | CHB-C4A-NA | 4.14 | 130.23 | 124.51 |
| 34 | U | 314 | LUT | C7-C8-C9 | -4.14 | 119.99 | 126.23 |
| 33 | 8 | 307 | CHL | CHA-C4D-ND | 4.13 | 141.14 | 132.50 |
| 33 | T | 604 | CHL | O2D-CGD-CBD | 4.12 | 118.60 | 111.27 |
| 33 | S | 309 | CHL | CMD-C2D-C3D | -4.12 | 118.13 | 127.61 |
| 35 | P | 620 | XAT | C11-C10-C9 | -4.12 | 121.43 | 127.31 |
| 28 | 8 | 318 | BCR | C38-C26-C25 | -4.12 | 119.90 | 124.53 |
| 28 | A | 847 | BCR | C24-C23-C22 | -4.12 | 120.01 | 126.23 |
| 27 | A | 843 | LHG | O7-C7-C8 | 4.12 | 120.37 | 111.50 |
| 33 | P | 605 | CHL | CAA-CBA-CGA | -4.12 | 101.22 | 113.25 |
| 25 | 6 | 623 | CLA | O2D-CGD-O1D | -4.11 | 115.79 | 123.84 |
| 25 | P | 602 | CLA | CMB-C2B-C1B | -4.11 | 122.14 | 128.46 |
| 25 | U | 310 | CLA | CMB-C2B-C1B | -4.10 | 122.16 | 128.46 |
| 33 | Q | 607 | CHL | CMD-C2D-C3D | -4.10 | 118.19 | 127.61 |
| 28 | L | 207 | BCR | C16-C17-C18 | -4.10 | 121.47 | 127.31 |
| 25 | 5 | 310 | CLA | CMB-C2B-C1B | -4.09 | 122.17 | 128.46 |
| 34 | P | 614 | LUT | C15-C14-C13 | -4.09 | 121.48 | 127.31 |
| 32 | 2 | 301 | LMG | O7-C10-C11 | 4.09 | 120.31 | 111.50 |
| 33 | R | 605 | CHL | CMD-C2D-C3D | -4.09 | 118.22 | 127.61 |
| 33 | R | 601 | CHL | CMD-C2D-C3D | -4.09 | 118.22 | 127.61 |
| 33 | P | 608 | CHL | CMD-C2D-C3D | -4.08 | 118.22 | 127.61 |
| 33 | P | 601 | CHL | CMD-C2D-C3D | -4.08 | 118.22 | 127.61 |
| 33 | Q | 601 | CHL | CMD-C2D-C3D | -4.08 | 118.22 | 127.61 |
| 28 | B | 842 | BCR | C38-C26-C25 | -4.08 | 119.95 | 124.53 |
| 33 | 5 | 307 | CHL | C1D-ND-C4D | 4.08 | 109.23 | 106.33 |
| 33 | R | 608 | CHL | CMD-C2D-C3D | -4.07 | 118.24 | 127.61 |
| 28 | 4 | 321 | BCR | C37-C22-C21 | -4.07 | 117.22 | 122.92 |
| 34 | U | 314 | LUT | C15-C14-C13 | -4.07 | 121.50 | 127.31 |
| 27 | 2 | 317 | LHG | O7-C7-C8 | 4.06 | 120.26 | 111.50 |
| 25 | 5 | 313 | CLA | CMD-C2D-C1D | 4.06 | 131.87 | 124.71 |
| 25 | B | 823 | CLA | CMB-C2B-C1B | -4.06 | 122.22 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 1 | 606 | CHL | CMD-C2D-C3D | -4.05 | 118.29 | 127.61 |
| 30 | B | 846 | DGD | O2G-C1B-C2B | 4.05 | 120.23 | 111.50 |
| 28 | 7 | 316 | BCR | C33-C5-C6 | -4.05 | 119.98 | 124.53 |
| 34 | 1 | 616 | LUT | C18-C5-C4 | 4.05 | 121.86 | 114.36 |
| 32 | 4 | 320 | LMG | O7-C10-C11 | 4.05 | 120.22 | 111.50 |
| 28 | A | 847 | BCR | C20-C21-C22 | -4.05 | 121.54 | 127.31 |
| 28 | 4 | 321 | BCR | C28-C27-C26 | -4.04 | 106.86 | 114.08 |
| 33 | T | 601 | CHL | CMD-C2D-C3D | -4.04 | 118.33 | 127.61 |
| 28 | J | 101 | BCR | C20-C21-C22 | -4.04 | 121.55 | 127.31 |
| 33 | T | 606 | CHL | CMD-C2D-C3D | -4.03 | 118.33 | 127.61 |
| 34 | R | 616 | LUT | C35-C34-C33 | -4.03 | 121.55 | 127.31 |
| 36 | U | 316 | NEX | O24-C25-C38 | 4.03 | 119.89 | 115.06 |
| 25 | R | 604 | CLA | CMB-C2B-C1B | -4.03 | 122.27 | 128.46 |
| 26 | B | 839 | PQN | C11-C12-C13 | -4.03 | 120.08 | 126.79 |
| 28 | 3 | 318 | BCR | C33-C5-C6 | -4.03 | 120.00 | 124.53 |
| 33 | 6 | 606 | CHL | CAC-C3C-C4C | 4.03 | 130.04 | 124.81 |
| 27 | 1 | 618 | LHG | O7-C7-C8 | 4.03 | 120.18 | 111.50 |
| 36 | R | 617 | NEX | O24-C25-C38 | 4.02 | 119.88 | 115.06 |
| 33 | 5 | 307 | CHL | O2D-CGD-CBD | 4.02 | 118.41 | 111.27 |
| 33 | P | 622 | CHL | CHD-C1D-ND | -4.02 | 120.76 | 124.45 |
| 28 | 3 | 318 | BCR | C11-C12-C13 | -4.02 | 115.13 | 126.42 |
| 28 | O | 205 | BCR | C38-C26-C25 | -4.01 | 120.02 | 124.53 |
| 25 | A | 827 | CLA | O2D-CGD-O1D | -4.01 | 115.99 | 123.84 |
| 33 | P | 606 | CHL | CMD-C2D-C3D | -4.01 | 118.39 | 127.61 |
| 28 | L | 207 | BCR | C15-C14-C13 | -4.01 | 121.59 | 127.31 |
| 33 | U | 306 | CHL | CMD-C2D-C3D | -4.01 | 118.39 | 127.61 |
| 25 | 7 | 312 | CLA | CMB-C2B-C1B | -4.00 | 122.31 | 128.46 |
| 28 | J | 106 | BCR | C16-C17-C18 | -4.00 | 121.60 | 127.31 |
| 33 | 4 | 304 | CHL | C2A-C1A-CHA | -4.00 | 116.86 | 123.85 |
| 33 | S | 308 | CHL | CMD-C2D-C3D | -4.00 | 118.41 | 127.61 |
| 33 | 4 | 304 | CHL | C1D-ND-C4D | 4.00 | 109.18 | 106.33 |
| 33 | R | 601 | CHL | CHD-C4C-C3C | -4.00 | 118.96 | 124.84 |
| 33 | P | 601 | CHL | CHD-C4C-C3C | -4.00 | 118.96 | 124.84 |
| 25 | S | 303 | CLA | CMB-C2B-C1B | -4.00 | 122.32 | 128.46 |
| 25 | A | 823 | CLA | CMB-C2B-C1B | -4.00 | 122.32 | 128.46 |
| 33 | Q | 605 | CHL | CMD-C2D-C3D | -3.99 | 118.43 | 127.61 |
| 27 | 4 | 318 | LHG | O7-C7-C8 | 3.99 | 120.11 | 111.50 |
| 25 | O | 203 | CLA | CAB-C3B-C4B | -3.99 | 122.33 | 128.46 |
| 25 | A | 824 | CLA | CMB-C2B-C1B | -3.99 | 122.34 | 128.46 |
| 25 | 4 | 310 | CLA | CMB-C2B-C1B | -3.98 | 122.34 | 128.46 |
| 33 | Q | 601 | CHL | CHD-C4C-C3C | -3.98 | 118.99 | 124.84 |
| 25 | B | 817 | CLA | CMB-C2B-C1B | -3.98 | 122.34 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | R | 615 | LUT | C15-C14-C13 | -3.98 | 121.63 | 127.31 |
| 33 | Q | 608 | CHL | O2D-CGD-CBD | 3.98 | 118.34 | 111.27 |
| 36 | P | 617 | NEX | O24-C25-C38 | 3.98 | 119.83 | 115.06 |
| 35 | P | 620 | XAT | C6-C7-C8 | -3.98 | 117.58 | 125.99 |
| 35 | T | 615 | XAT | C6-C7-C8 | -3.98 | 117.59 | 125.99 |
| 34 | R | 616 | LUT | C31-C30-C29 | -3.97 | 121.64 | 127.31 |
| 33 | U | 309 | CHL | CMD-C2D-C3D | -3.97 | 118.47 | 127.61 |
| 33 | 5 | 307 | CHL | CHD-C1D-ND | -3.97 | 120.80 | 124.45 |
| 33 | P | 609 | CHL | O2D-CGD-CBD | 3.97 | 118.32 | 111.27 |
| 32 | J | 104 | LMG | O7-C10-C11 | 3.97 | 120.05 | 111.50 |
| 25 | A | 830 | CLA | CMB-C2B-C1B | -3.97 | 122.37 | 128.46 |
| 34 | 1 | 615 | LUT | C18-C5-C6 | -3.96 | 120.08 | 124.53 |
| 31 | B | 850 | SQD | O47-C7-C8 | 3.96 | 120.05 | 111.50 |
| 28 | 4 | 317 | BCR | C38-C26-C25 | -3.96 | 120.08 | 124.53 |
| 27 | 8 | 319 | LHG | O7-C7-C8 | 3.96 | 120.04 | 111.50 |
| 25 | T | 608 | CLA | CMB-C2B-C1B | -3.96 | 122.37 | 128.46 |
| 28 | A | 847 | BCR | C15-C14-C13 | -3.96 | 121.66 | 127.31 |
| 33 | R | 609 | CHL | O2D-CGD-CBD | 3.96 | 118.31 | 111.27 |
| 28 | L | 208 | BCR | C7-C8-C9 | -3.96 | 120.25 | 126.23 |
| 25 | 1 | 612 | CLA | O2D-CGD-O1D | -3.96 | 116.09 | 123.84 |
| 33 | R | 601 | CHL | C1-C2-C3 | -3.96 | 120.34 | 126.75 |
| 33 | 5 | 308 | CHL | CMD-C2D-C3D | -3.96 | 118.50 | 127.61 |
| 33 | U | 308 | CHL | CMD-C2D-C3D | -3.96 | 118.50 | 127.61 |
| 33 | 1 | 606 | CHL | C2A-C1A-CHA | -3.96 | 116.94 | 123.86 |
| 33 | 6 | 617 | CHL | CMD-C2D-C3D | -3.96 | 118.51 | 127.61 |
| 33 | Q | 601 | CHL | C1-C2-C3 | -3.95 | 120.36 | 126.75 |
| 33 | S | 307 | CHL | CHD-C1D-ND | -3.95 | 120.82 | 124.45 |
| 33 | Q | 607 | CHL | O2D-CGD-CBD | 3.95 | 118.28 | 111.27 |
| 25 | 1 | 612 | CLA | CHB-C4A-NA | 3.95 | 129.97 | 124.51 |
| 32 | 6 | 602 | LMG | O7-C10-C11 | 3.94 | 120.00 | 111.50 |
| 33 | P | 601 | CHL | C1-C2-C3 | -3.94 | 120.37 | 126.75 |
| 25 | a | 308 | CLA | CHB-C4A-NA | 3.94 | 129.96 | 124.51 |
| 33 | P | 608 | CHL | O2D-CGD-CBD | 3.94 | 118.27 | 111.27 |
| 28 | 6 | 621 | BCR | C3-C4-C5 | -3.94 | 107.05 | 114.08 |
| 27 | A | 844 | LHG | O7-C7-C8 | 3.93 | 119.98 | 111.50 |
| 33 | 4 | 314 | CHL | C1D-ND-C4D | 3.93 | 109.13 | 106.33 |
| 33 | a | 305 | CHL | CMD-C2D-C3D | -3.93 | 118.57 | 127.61 |
| 28 | 3 | 318 | BCR | C35-C13-C14 | -3.93 | 117.42 | 122.92 |
| 33 | S | 302 | CHL | CHA-C4D-ND | 3.93 | 140.72 | 132.50 |
| 33 | T | 601 | CHL | CHD-C4C-C3C | -3.93 | 119.06 | 124.84 |
| 28 | L | 204 | BCR | C15-C14-C13 | -3.93 | 121.70 | 127.31 |
| 34 | 6 | 619 | LUT | C18-C5-C6 | -3.93 | 120.11 | 124.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | R | 608 | CHL | O2D-CGD-CBD | 3.92 | 118.24 | 111.27 |
| 33 | T | 605 | CHL | CMD-C2D-C3D | -3.92 | 118.59 | 127.61 |
| 28 | 3 | 317 | BCR | C7-C8-C9 | -3.92 | 120.31 | 126.23 |
| 34 | 2 | 315 | LUT | C21-C26-C27 | -3.92 | 107.75 | 112.70 |
| 33 | a | 305 | CHL | C2A-C1A-CHA | -3.91 | 117.02 | 123.86 |
| 33 | T | 607 | CHL | CHD-C1D-ND | -3.91 | 120.86 | 124.45 |
| 34 | T | 614 | LUT | C31-C30-C29 | -3.91 | 121.73 | 127.31 |
| 25 | B | 816 | CLA | CMB-C2B-C1B | -3.91 | 122.45 | 128.46 |
| 33 | 6 | 607 | CHL | O2D-CGD-CBD | 3.91 | 118.21 | 111.27 |
| 35 | P | 623 | XAT | C6-C7-C8 | -3.91 | 117.73 | 125.99 |
| 33 | 1 | 606 | CHL | CHD-C1D-ND | -3.90 | 120.87 | 124.45 |
| 28 | O | 205 | BCR | C20-C21-C22 | -3.90 | 121.74 | 127.31 |
| 28 | 5 | 323 | BCR | C11-C12-C13 | -3.90 | 115.46 | 126.42 |
| 33 | S | 306 | CHL | CMD-C2D-C3D | -3.90 | 118.64 | 127.61 |
| 25 | 9 | 310 | CLA | CMB-C2B-C1B | -3.90 | 122.47 | 128.46 |
| 25 | Q | 613 | CLA | CMB-C2B-C1B | -3.90 | 122.47 | 128.46 |
| 28 | I | 201 | BCR | C28-C27-C26 | -3.89 | 107.12 | 114.08 |
| 25 | R | 610 | CLA | CMB-C2B-C1B | -3.89 | 122.48 | 128.46 |
| 27 | a | 317 | LHG | O7-C7-C8 | 3.89 | 119.89 | 111.50 |
| 33 | 6 | 606 | CHL | CHA-C4D-ND | 3.89 | 140.64 | 132.50 |
| 28 | B | 844 | BCR | C33-C5-C6 | -3.89 | 120.16 | 124.53 |
| 25 | B | 815 | CLA | CMB-C2B-C1B | -3.89 | 122.48 | 128.46 |
| 33 | 7 | 305 | CHL | CAC-C3C-C4C | 3.89 | 129.86 | 124.81 |
| 35 | P | 623 | XAT | O4-C5-C18 | 3.88 | 119.71 | 115.06 |
| 25 | A | 804 | CLA | CMB-C2B-C1B | -3.88 | 122.50 | 128.46 |
| 25 | H | 202 | CLA | CAA-C2A-C3A | -3.88 | 107.05 | 116.10 |
| 33 | T | 604 | CHL | CMD-C2D-C3D | -3.88 | 118.69 | 127.61 |
| 33 | 4 | 314 | CHL | CAC-C3C-C4C | 3.88 | 129.84 | 124.81 |
| 35 | P | 616 | XAT | C6-C7-C8 | -3.88 | 117.80 | 125.99 |
| 35 | Q | 616 | XAT | C26-C27-C28 | -3.88 | 117.80 | 125.99 |
| 33 | U | 308 | CHL | O2D-CGD-CBD | 3.88 | 118.16 | 111.27 |
| 25 | B | 849 | CLA | CMB-C2B-C1B | -3.87 | 122.51 | 128.46 |
| 25 | 6 | 605 | CLA | CMB-C2B-C1B | -3.87 | 122.52 | 128.46 |
| 33 | 4 | 314 | CHL | CMD-C2D-C3D | -3.87 | 118.71 | 127.61 |
| 28 | A | 847 | BCR | C28-C27-C26 | -3.87 | 107.17 | 114.08 |
| 25 | A | 814 | CLA | CMB-C2B-C1B | -3.87 | 122.52 | 128.46 |
| 28 | 5 | 320 | BCR | C15-C14-C13 | -3.86 | 121.80 | 127.31 |
| 35 | Q | 616 | XAT | C35-C34-C33 | -3.86 | 121.80 | 127.31 |
| 35 | T | 615 | XAT | O4-C5-C18 | 3.86 | 119.68 | 115.06 |
| 33 | P | 622 | CHL | CMD-C2D-C3D | -3.86 | 118.73 | 127.61 |
| 28 | A | 846 | BCR | C3-C4-C5 | -3.86 | 107.19 | 114.08 |
| 33 | Q | 606 | CHL | CMD-C2D-C3D | -3.86 | 118.74 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | K | 206 | BCR | C33-C5-C6 | -3.86 | 120.20 | 124.53 |
| 28 | B | 842 | BCR | C11-C10-C9 | -3.86 | 121.81 | 127.31 |
| 28 | B | 845 | BCR | C28-C27-C26 | -3.86 | 107.19 | 114.08 |
| 33 | S | 310 | CHL | CMD-C2D-C3D | -3.85 | 118.75 | 127.61 |
| 35 | S | 318 | XAT | C19-C9-C10 | -3.85 | 117.53 | 122.92 |
| 28 | 8 | 301 | BCR | C28-C27-C26 | -3.85 | 107.20 | 114.08 |
| 28 | B | 851 | BCR | C20-C21-C22 | -3.85 | 121.81 | 127.31 |
| 28 | B | 843 | BCR | C28-C27-C26 | -3.85 | 107.20 | 114.08 |
| 25 | A | 811 | CLA | CMB-C2B-C1B | -3.85 | 122.55 | 128.46 |
| 25 | S | 305 | CLA | CMB-C2B-C1B | -3.85 | 122.55 | 128.46 |
| 35 | P | 623 | XAT | C26-C27-C28 | -3.84 | 117.87 | 125.99 |
| 33 | S | 306 | CHL | CHA-C4D-ND | 3.84 | 140.53 | 132.50 |
| 28 | L | 207 | BCR | C20-C21-C22 | -3.84 | 121.83 | 127.31 |
| 25 | A | 813 | CLA | O2D-CGD-O1D | -3.83 | 116.34 | 123.84 |
| 33 | S | 306 | CHL | C2A-C1A-CHA | -3.83 | 117.15 | 123.86 |
| 33 | 5 | 308 | CHL | CHA-C4D-ND | 3.83 | 140.52 | 132.50 |
| 25 | B | 819 | CLA | CMB-C2B-C1B | -3.83 | 122.57 | 128.46 |
| 25 | A | 807 | CLA | CMB-C2B-C1B | -3.83 | 122.58 | 128.46 |
| 33 | P | 605 | CHL | CMD-C2D-C3D | -3.83 | 118.80 | 127.61 |
| 36 | P | 621 | NEX | C5-C6-C1 | -3.83 | 115.89 | 119.70 |
| 33 | S | 302 | CHL | CAC-C3C-C4C | 3.83 | 129.78 | 124.81 |
| 28 | F | 803 | BCR | C15-C14-C13 | -3.83 | 121.85 | 127.31 |
| 28 | 4 | 317 | BCR | C11-C10-C9 | -3.83 | 121.85 | 127.31 |
| 28 | K | 206 | BCR | C7-C8-C9 | -3.83 | 120.45 | 126.23 |
| 35 | P | 620 | XAT | O4-C5-C18 | 3.82 | 119.64 | 115.06 |
| 33 | 4 | 304 | CHL | CAC-C3C-C4C | 3.82 | 129.77 | 124.81 |
| 34 | T | 613 | LUT | C15-C14-C13 | -3.82 | 121.85 | 127.31 |
| 25 | 5 | 313 | CLA | CHD-C1D-ND | -3.82 | 120.94 | 124.45 |
| 35 | S | 318 | XAT | O24-C25-C38 | 3.82 | 119.63 | 115.06 |
| 33 | 8 | 307 | CHL | C1-C2-C3 | -3.82 | 119.44 | 126.04 |
| 28 | B | 840 | BCR | C15-C14-C13 | -3.81 | 121.87 | 127.31 |
| 28 | 5 | 323 | BCR | C37-C22-C23 | 3.81 | 124.08 | 118.08 |
| 33 | 3 | 306 | CHL | CHD-C4C-NC | 3.81 | 130.20 | 124.20 |
| 33 | 5 | 308 | CHL | C1-C2-C3 | -3.81 | 120.59 | 126.75 |
| 25 | A | 820 | CLA | CMB-C2B-C1B | -3.81 | 122.61 | 128.46 |
| 34 | 3 | 316 | LUT | C18-C5-C6 | -3.81 | 120.25 | 124.53 |
| 33 | 6 | 606 | CHL | CMD-C2D-C3D | -3.80 | 118.87 | 127.61 |
| 28 | A | 846 | BCR | C24-C23-C22 | -3.80 | 120.49 | 126.23 |
| 33 | 7 | 305 | CHL | CHA-C4D-ND | 3.80 | 140.45 | 132.50 |
| 34 | 4 | 316 | LUT | C18-C5-C6 | -3.80 | 120.26 | 124.53 |
| 33 | a | 305 | CHL | O2D-CGD-CBD | 3.79 | 118.01 | 111.27 |
| 34 | a | 315 | LUT | C18-C5-C4 | 3.79 | 121.38 | 114.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | F | 803 | BCR | C33-C5-C6 | -3.79 | 120.27 | 124.53 |
| 25 | P | 610 | CLA | CMB-C2B-C1B | -3.79 | 122.64 | 128.46 |
| 28 | B | 841 | BCR | C16-C17-C18 | -3.79 | 121.91 | 127.31 |
| 28 | B | 843 | BCR | C21-C20-C19 | -3.78 | 111.41 | 123.22 |
| 33 | 5 | 317 | CHL | CMD-C2D-C3D | -3.78 | 118.92 | 127.61 |
| 34 | U | 315 | LUT | C21-C26-C27 | -3.78 | 107.92 | 112.70 |
| 33 | U | 305 | CHL | CMD-C2D-C3D | -3.78 | 118.92 | 127.61 |
| 34 | 5 | 318 | LUT | C35-C34-C33 | -3.77 | 121.93 | 127.31 |
| 25 | 9 | 301 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 25 | 9 | 302 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 33 | U | 305 | CHL | C1D-ND-C4D | 3.77 | 109.01 | 106.33 |
| 28 | F | 801 | BCR | C33-C5-C6 | -3.77 | 120.30 | 124.53 |
| 25 | 3 | 303 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 27 | S | 319 | LHG | O7-C7-C8 | 3.77 | 119.62 | 111.50 |
| 33 | S | 321 | CHL | CHD-C1D-ND | -3.77 | 120.99 | 124.45 |
| 34 | U | 314 | LUT | C11-C10-C9 | -3.76 | 121.94 | 127.31 |
| 34 | 2 | 316 | LUT | C7-C8-C9 | -3.76 | 120.55 | 126.23 |
| 28 | B | 851 | BCR | C33-C5-C6 | -3.76 | 120.30 | 124.53 |
| 28 | A | 846 | BCR | C20-C21-C22 | -3.76 | 121.94 | 127.31 |
| 33 | 7 | 305 | CHL | C1D-ND-C4D | 3.76 | 109.00 | 106.33 |
| 33 | S | 306 | CHL | CMB-C2B-C3B | 3.76 | 131.71 | 124.68 |
| 28 | 6 | 621 | BCR | C33-C5-C4 | 3.76 | 120.83 | 113.62 |
| 25 | B | 809 | CLA | CMB-C2B-C1B | -3.76 | 122.69 | 128.46 |
| 28 | 5 | 320 | BCR | C33-C5-C6 | -3.76 | 120.31 | 124.53 |
| 28 | B | 841 | BCR | C28-C27-C26 | -3.75 | 107.38 | 114.08 |
| 34 | S | 317 | LUT | C15-C14-C13 | -3.75 | 121.96 | 127.31 |
| 33 | 9 | 306 | CHL | CHD-C4C-NC | 3.74 | 130.10 | 124.20 |
| 25 | L | 205 | CLA | O2D-CGD-O1D | -3.74 | 116.52 | 123.84 |
| 30 | B | 848 | DGD | C1E-C2E-C3E | 3.74 | 117.79 | 110.00 |
| 25 | a | 303 | CLA | CMB-C2B-C3B | 3.74 | 131.67 | 124.68 |
| 25 | 1 | 608 | CLA | CMB-C2B-C1B | -3.74 | 122.72 | 128.46 |
| 34 | 8 | 316 | LUT | C18-C5-C6 | -3.74 | 120.33 | 124.53 |
| 28 | 5 | 323 | BCR | C15-C14-C13 | -3.74 | 121.98 | 127.31 |
| 25 | A | 830 | CLA | O2D-CGD-O1D | -3.74 | 116.53 | 123.84 |
| 33 | T | 607 | CHL | CHA-C4D-ND | 3.73 | 140.31 | 132.50 |
| 34 | 5 | 322 | LUT | C18-C5-C6 | -3.73 | 120.34 | 124.53 |
| 33 | 9 | 306 | CHL | CHA-C4D-ND | 3.73 | 140.30 | 132.50 |
| 33 | 3 | 306 | CHL | CHA-C4D-ND | 3.73 | 140.30 | 132.50 |
| 27 | B | 847 | LHG | O7-C7-C8 | 3.73 | 119.54 | 111.50 |
| 34 | 7 | 314 | LUT | C35-C34-C33 | -3.73 | 121.99 | 127.31 |
| 28 | 8 | 301 | BCR | C7-C8-C9 | -3.73 | 120.61 | 126.23 |
| 25 | U | 313 | CLA | CMB-C2B-C3B | 3.72 | 131.65 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | S | 310 | CHL | C4-C3-C5 | 3.72 | 120.24 | 115.98 |
| 33 | R | 605 | CHL | C1D-ND-C4D | 3.72 | 108.98 | 106.33 |
| 33 | 4 | 314 | CHL | CHA-C4D-ND | 3.72 | 140.28 | 132.50 |
| 33 | 4 | 322 | CHL | CAC-C3C-C4C | 3.72 | 129.64 | 124.81 |
| 33 | 6 | 617 | CHL | CHD-C1D-ND | -3.72 | 121.04 | 124.45 |
| 25 | T | 610 | CLA | O2D-CGD-O1D | -3.72 | 116.57 | 123.84 |
| 34 | Q | 614 | LUT | C15-C14-C13 | -3.72 | 122.01 | 127.31 |
| 25 | K | 205 | CLA | CMB-C2B-C1B | -3.72 | 122.75 | 128.46 |
| 33 | S | 306 | CHL | CAC-C3C-C4C | 3.72 | 129.63 | 124.81 |
| 34 | S | 316 | LUT | C35-C34-C33 | -3.72 | 122.01 | 127.31 |
| 33 | 9 | 307 | CHL | CHA-C4D-ND | 3.71 | 140.27 | 132.50 |
| 33 | 3 | 306 | CHL | O2D-CGD-CBD | 3.71 | 117.86 | 111.27 |
| 25 | 9 | 303 | CLA | CMB-C2B-C1B | -3.71 | 122.77 | 128.46 |
| 33 | 6 | 608 | CHL | OMC-CMC-C2C | -3.71 | 117.31 | 125.69 |
| 25 | B | 805 | CLA | CMB-C2B-C1B | -3.71 | 122.77 | 128.46 |
| 25 | 3 | 302 | CLA | CMB-C2B-C1B | -3.70 | 122.77 | 128.46 |
| 25 | A | 806 | CLA | CMB-C2B-C1B | -3.70 | 122.77 | 128.46 |
| 33 | 4 | 306 | CHL | CMD-C2D-C3D | -3.70 | 119.10 | 127.61 |
| 33 | S | 309 | CHL | CHA-C4D-ND | 3.70 | 140.24 | 132.50 |
| 33 | Q | 607 | CHL | CHD-C1D-ND | -3.70 | 121.05 | 124.45 |
| 33 | 4 | 304 | CHL | CHA-C4D-ND | 3.70 | 140.24 | 132.50 |
| 28 | B | 843 | BCR | C15-C14-C13 | -3.70 | 122.03 | 127.31 |
| 33 | 4 | 306 | CHL | CHD-C4C-NC | 3.70 | 130.03 | 124.20 |
| 25 | a | 308 | CLA | CMA-C3A-C4A | 3.70 | 121.71 | 111.77 |
| 25 | a | 311 | CLA | O2D-CGD-O1D | -3.70 | 116.61 | 123.84 |
| 25 | 4 | 303 | CLA | CMB-C2B-C1B | -3.70 | 122.78 | 128.46 |
| 33 | 5 | 307 | CHL | C1D-CHD-C4C | -3.69 | 118.09 | 126.06 |
| 28 | O | 204 | BCR | C15-C14-C13 | -3.69 | 122.04 | 127.31 |
| 33 | P | 606 | CHL | CHD-C1D-ND | -3.69 | 121.06 | 124.45 |
| 28 | 4 | 321 | BCR | C23-C22-C21 | 3.69 | 124.61 | 118.94 |
| 30 | B | 848 | DGD | C1D-C2D-C3D | 3.69 | 117.68 | 110.00 |
| 25 | B | 827 | CLA | CMB-C2B-C1B | -3.69 | 122.79 | 128.46 |
| 25 | 3 | 313 | CLA | CMB-C2B-C1B | -3.69 | 122.79 | 128.46 |
| 25 | 1 | 610 | CLA | CMB-C2B-C1B | -3.69 | 122.79 | 128.46 |
| 33 | 9 | 307 | CHL | CMD-C2D-C3D | -3.69 | 119.13 | 127.61 |
| 25 | Q | 602 | CLA | CMB-C2B-C3B | 3.69 | 131.58 | 124.68 |
| 32 | J | 102 | LMG | O7-C10-C11 | 3.69 | 119.45 | 111.50 |
| 33 | 6 | 607 | CHL | CMD-C2D-C3D | -3.68 | 119.14 | 127.61 |
| 34 | R | 615 | LUT | C18-C5-C6 | -3.68 | 120.39 | 124.53 |
| 25 | 3 | 312 | CLA | CMB-C2B-C1B | -3.68 | 122.81 | 128.46 |
| 33 | U | 307 | CHL | CHD-C1D-ND | -3.68 | 121.07 | 124.45 |
| 33 | S | 302 | CHL | C1D-ND-C4D | 3.68 | 108.95 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 8 | 310 | CLA | CMB-C2B-C1B | -3.68 | 122.81 | 128.46 |
| 28 | B | 845 | BCR | C7-C8-C9 | -3.68 | 120.68 | 126.23 |
| 33 | U | 305 | CHL | CHA-C4D-ND | 3.68 | 140.19 | 132.50 |
| 25 | 5 | 311 | CLA | CMB-C2B-C1B | -3.68 | 122.81 | 128.46 |
| 28 | 3 | 319 | BCR | C33-C5-C6 | -3.68 | 120.40 | 124.53 |
| 33 | 9 | 307 | CHL | CAC-C3C-C4C | 3.67 | 129.58 | 124.81 |
| 34 | 1 | 617 | LUT | C18-C5-C4 | 3.67 | 121.16 | 114.36 |
| 33 | Q | 605 | CHL | CHA-C4D-ND | 3.67 | 140.18 | 132.50 |
| 34 | 2 | 316 | LUT | C18-C5-C6 | -3.67 | 120.41 | 124.53 |
| 25 | B | 822 | CLA | O2D-CGD-O1D | -3.67 | 116.66 | 123.84 |
| 28 | L | 204 | BCR | C28-C27-C26 | -3.67 | 107.53 | 114.08 |
| 28 | A | 845 | BCR | C33-C5-C6 | -3.67 | 120.41 | 124.53 |
| 33 | T | 606 | CHL | CHD-C1D-ND | -3.67 | 121.08 | 124.45 |
| 33 | U | 309 | CHL | C2A-C1A-CHA | -3.67 | 117.45 | 123.86 |
| 25 | 6 | 613 | CLA | O2D-CGD-O1D | -3.67 | 116.67 | 123.84 |
| 25 | 5 | 304 | CLA | CMB-C2B-C3B | 3.67 | 131.54 | 124.68 |
| 25 | 1 | 609 | CLA | CMA-C3A-C4A | 3.67 | 121.62 | 111.77 |
| 25 | 8 | 311 | CLA | CMB-C2B-C1B | -3.66 | 122.83 | 128.46 |
| 25 | P | 611 | CLA | CHB-C4A-NA | 3.66 | 129.58 | 124.51 |
| 33 | 9 | 306 | CHL | CHD-C1D-ND | -3.66 | 121.09 | 124.45 |
| 33 | 6 | 608 | CHL | CHA-C4D-ND | 3.66 | 140.16 | 132.50 |
| 28 | A | 849 | BCR | C20-C19-C18 | -3.66 | 116.13 | 126.42 |
| 25 | 7 | 313 | CLA | CMB-C2B-C1B | -3.66 | 122.84 | 128.46 |
| 25 | U | 302 | CLA | CMB-C2B-C3B | 3.66 | 131.53 | 124.68 |
| 25 | 8 | 304 | CLA | CMB-C2B-C1B | -3.66 | 122.84 | 128.46 |
| 33 | S | 309 | CHL | C4-C3-C5 | 3.66 | 120.16 | 115.98 |
| 25 | A | 840 | CLA | O2D-CGD-O1D | -3.66 | 116.69 | 123.84 |
| 33 | 8 | 307 | CHL | C6-C5-C3 | -3.66 | 108.64 | 114.62 |
| 25 | A | 836 | CLA | CMB-C2B-C1B | -3.66 | 122.85 | 128.46 |
| 28 | 8 | 301 | BCR | C3-C4-C5 | -3.65 | 107.55 | 114.08 |
| 25 | P | 611 | CLA | C1B-CHB-C4A | -3.65 | 122.88 | 130.12 |
| 33 | T | 605 | CHL | CHD-C1D-ND | -3.65 | 121.10 | 124.45 |
| 33 | R | 605 | CHL | C2A-C1A-CHA | -3.65 | 117.47 | 123.86 |
| 25 | 3 | 307 | CLA | CMB-C2B-C1B | -3.65 | 122.85 | 128.46 |
| 33 | P | 619 | CHL | CHA-C4D-ND | 3.65 | 140.14 | 132.50 |
| 33 | 5 | 307 | CHL | CAC-C3C-C4C | 3.65 | 129.55 | 124.81 |
| 33 | 6 | 617 | CHL | CHA-C4D-ND | 3.65 | 140.13 | 132.50 |
| 28 | J | 106 | BCR | C37-C22-C21 | -3.64 | 117.82 | 122.92 |
| 28 | B | 841 | BCR | C11-C10-C9 | -3.64 | 122.11 | 127.31 |
| 33 | S | 307 | CHL | CHA-C4D-ND | 3.64 | 140.12 | 132.50 |
| 33 | P | 607 | CHL | CHA-C4D-ND | 3.64 | 140.11 | 132.50 |
| 33 | 4 | 306 | CHL | CHA-C4D-ND | 3.64 | 140.11 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | 4 | 315 | LUT | C18-C5-C6 | -3.64 | 120.44 | 124.53 |
| 25 | a | 307 | CLA | CMB-C2B-C1B | -3.64 | 122.87 | 128.46 |
| 34 | Q | 615 | LUT | C35-C34-C33 | -3.64 | 122.12 | 127.31 |
| 33 | T | 601 | CHL | C2A-C1A-CHA | -3.64 | 117.50 | 123.86 |
| 34 | 8 | 316 | LUT | C7-C8-C9 | -3.64 | 120.74 | 126.23 |
| 25 | 6 | 609 | CLA | CMB-C2B-C1B | -3.64 | 122.88 | 128.46 |
| 25 | B | 814 | CLA | CMB-C2B-C1B | -3.63 | 122.88 | 128.46 |
| 28 | J | 101 | BCR | C15-C16-C17 | -3.63 | 116.03 | 123.47 |
| 25 | T | 612 | CLA | CMB-C2B-C1B | -3.63 | 122.88 | 128.46 |
| 25 | 6 | 614 | CLA | CMB-C2B-C1B | -3.63 | 122.88 | 128.46 |
| 33 | P | 608 | CHL | CHD-C1D-ND | -3.63 | 121.12 | 124.45 |
| 33 | T | 607 | CHL | OBD-CAD-C3D | -3.63 | 119.78 | 128.52 |
| 28 | 5 | 323 | BCR | C34-C9-C10 | -3.63 | 117.84 | 122.92 |
| 33 | R | 607 | CHL | CHA-C4D-ND | 3.63 | 140.09 | 132.50 |
| 25 | R | 614 | CLA | CMB-C2B-C1B | -3.63 | 122.89 | 128.46 |
| 33 | 5 | 307 | CHL | CHA-C4D-ND | 3.63 | 140.09 | 132.50 |
| 33 | 4 | 322 | CHL | C1D-ND-C4D | 3.62 | 108.91 | 106.33 |
| 25 | 4 | 309 | CLA | CMB-C2B-C1B | -3.62 | 122.89 | 128.46 |
| 25 | a | 302 | CLA | CMB-C2B-C1B | -3.62 | 122.89 | 128.46 |
| 28 | 8 | 301 | BCR | C33-C5-C6 | -3.62 | 120.46 | 124.53 |
| 34 | 1 | 616 | LUT | C35-C34-C33 | -3.62 | 122.14 | 127.31 |
| 33 | S | 302 | CHL | O2D-CGD-CBD | 3.62 | 117.69 | 111.27 |
| 28 | B | 851 | BCR | C21-C20-C19 | -3.62 | 111.93 | 123.22 |
| 34 | 7 | 314 | LUT | C18-C5-C6 | -3.62 | 120.47 | 124.53 |
| 33 | U | 308 | CHL | CHD-C1D-ND | -3.61 | 121.13 | 124.45 |
| 33 | 4 | 314 | CHL | CHD-C1D-ND | -3.61 | 121.13 | 124.45 |
| 25 | 6 | 601 | CLA | CMB-C2B-C1B | -3.61 | 122.91 | 128.46 |
| 33 | P | 605 | CHL | CHD-C1D-ND | -3.61 | 121.13 | 124.45 |
| 28 | J | 106 | BCR | C1-C6-C5 | -3.61 | 117.52 | 122.61 |
| 28 | 5 | 323 | BCR | C33-C5-C6 | -3.61 | 120.47 | 124.53 |
| 33 | 1 | 606 | CHL | CHA-C4D-ND | 3.61 | 140.06 | 132.50 |
| 25 | 8 | 309 | CLA | CMB-C2B-C1B | -3.61 | 122.92 | 128.46 |
| 33 | Q | 606 | CHL | CHA-C4D-ND | 3.61 | 140.05 | 132.50 |
| 25 | Q | 618 | CLA | CMB-C2B-C1B | -3.61 | 122.92 | 128.46 |
| 33 | R | 605 | CHL | CHA-C4D-ND | 3.61 | 140.05 | 132.50 |
| 28 | A | 847 | BCR | C38-C26-C25 | -3.61 | 120.48 | 124.53 |
| 25 | 2 | 309 | CLA | CMB-C2B-C3B | 3.61 | 131.42 | 124.68 |
| 33 | S | 309 | CHL | O2D-CGD-CBD | 3.60 | 117.67 | 111.27 |
| 33 | P | 622 | CHL | C6-C5-C3 | -3.60 | 108.72 | 114.62 |
| 25 | 1 | 612 | CLA | C4D-C3D-CAD | 3.60 | 112.34 | 108.10 |
| 28 | B | 851 | BCR | C33-C5-C4 | 3.60 | 120.54 | 113.62 |
| 34 | U | 314 | LUT | C21-C26-C27 | -3.60 | 108.15 | 112.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 6 | 607 | CHL | C1D-CHD-C4C | -3.60 | 118.29 | 126.06 |
| 25 | 5 | 319 | CLA | CMB-C2B-C1B | -3.60 | 122.93 | 128.46 |
| 25 | 5 | 310 | CLA | CMB-C2B-C3B | 3.60 | 131.41 | 124.68 |
| 25 | A | 815 | CLA | CMB-C2B-C1B | -3.60 | 122.93 | 128.46 |
| 25 | 5 | 314 | CLA | CMB-C2B-C1B | -3.60 | 122.93 | 128.46 |
| 28 | A | 849 | BCR | C3-C4-C5 | -3.60 | 107.66 | 114.08 |
| 25 | A | 836 | CLA | O2D-CGD-O1D | -3.60 | 116.81 | 123.84 |
| 25 | A | 816 | CLA | CMB-C2B-C1B | -3.60 | 122.94 | 128.46 |
| 35 | T | 615 | XAT | C26-C27-C28 | -3.59 | 118.39 | 125.99 |
| 34 | T | 614 | LUT | C15-C14-C13 | -3.59 | 122.18 | 127.31 |
| 33 | 6 | 608 | CHL | CHD-C4C-NC | 3.59 | 129.86 | 124.20 |
| 25 | A | 809 | CLA | CMB-C2B-C1B | -3.59 | 122.94 | 128.46 |
| 25 | 5 | 303 | CLA | CMB-C2B-C1B | -3.59 | 122.94 | 128.46 |
| 28 | B | 842 | BCR | C33-C5-C6 | -3.59 | 120.50 | 124.53 |
| 25 | L | 205 | CLA | CMB-C2B-C1B | -3.59 | 122.95 | 128.46 |
| 33 | 4 | 304 | CHL | CMD-C2D-C3D | -3.59 | 119.36 | 127.61 |
| 33 | R | 608 | CHL | CHD-C1D-ND | -3.59 | 121.16 | 124.45 |
| 28 | 8 | 318 | BCR | C7-C8-C9 | -3.59 | 120.81 | 126.23 |
| 33 | Q | 606 | CHL | C3B-C4B-NB | 3.59 | 113.85 | 109.21 |
| 36 | U | 301 | NEX | O24-C25-C38 | 3.59 | 119.35 | 115.06 |
| 28 | 8 | 318 | BCR | C33-C5-C6 | -3.59 | 120.50 | 124.53 |
| 25 | 8 | 303 | CLA | CMB-C2B-C1B | -3.59 | 122.95 | 128.46 |
| 33 | R | 607 | CHL | CHD-C1D-ND | -3.59 | 121.16 | 124.45 |
| 25 | T | 611 | CLA | CMB-C2B-C1B | -3.58 | 122.96 | 128.46 |
| 25 | Q | 612 | CLA | CMB-C2B-C1B | -3.58 | 122.96 | 128.46 |
| 25 | B | 818 | CLA | CMB-C2B-C1B | -3.58 | 122.96 | 128.46 |
| 33 | 4 | 306 | CHL | C1D-ND-C4D | 3.58 | 108.88 | 106.33 |
| 25 | A | 835 | CLA | CMB-C2B-C1B | -3.58 | 122.96 | 128.46 |
| 25 | 6 | 615 | CLA | CMB-C2B-C1B | -3.58 | 122.96 | 128.46 |
| 34 | 1 | 617 | LUT | C7-C8-C9 | -3.58 | 120.83 | 126.23 |
| 25 | 7 | 307 | CLA | CMB-C2B-C1B | -3.58 | 122.96 | 128.46 |
| 28 | A | 846 | BCR | C15-C14-C13 | -3.58 | 122.20 | 127.31 |
| 33 | 6 | 606 | CHL | C3B-C4B-NB | 3.58 | 113.83 | 109.21 |
| 28 | B | 844 | BCR | C3-C4-C5 | -3.58 | 107.69 | 114.08 |
| 33 | S | 308 | CHL | CHA-C4D-ND | 3.58 | 139.98 | 132.50 |
| 33 | S | 302 | CHL | C3C-C4C-NC | 3.58 | 114.58 | 110.57 |
| 28 | J | 101 | BCR | C7-C8-C9 | -3.58 | 120.83 | 126.23 |
| 33 | 8 | 307 | CHL | O1D-CGD-CBD | -3.57 | 117.17 | 124.48 |
| 25 | U | 303 | CLA | CMB-C2B-C1B | -3.57 | 122.97 | 128.46 |
| 33 | T | 607 | CHL | C2A-C1A-CHA | -3.57 | 117.61 | 123.86 |
| 33 | R | 606 | CHL | CMD-C2D-C3D | -3.57 | 119.39 | 127.61 |
| 33 | 6 | 606 | CHL | CHD-C4C-NC | 3.57 | 129.83 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | 7 | 316 | BCR | C3-C4-C5 | -3.57 | 107.70 | 114.08 |
| 25 | 8 | 308 | CLA | CMB-C2B-C1B | -3.57 | 122.97 | 128.46 |
| 28 | F | 803 | BCR | C3-C4-C5 | -3.57 | 107.70 | 114.08 |
| 33 | P | 607 | CHL | CHD-C1D-ND | -3.57 | 121.17 | 124.45 |
| 34 | 8 | 317 | LUT | C7-C8-C9 | -3.57 | 120.84 | 126.23 |
| 25 | P | 611 | CLA | CMA-C3A-C4A | -3.57 | 102.18 | 111.77 |
| 25 | 1 | 611 | CLA | CMB-C2B-C1B | -3.57 | 122.98 | 128.46 |
| 28 | A | 849 | BCR | C34-C9-C10 | -3.57 | 117.93 | 122.92 |
| 25 | a | 303 | CLA | C6-C5-C3 | -3.57 | 104.10 | 113.45 |
| 33 | T | 604 | CHL | CHA-C4D-ND | 3.57 | 139.96 | 132.50 |
| 34 | T | 613 | LUT | C18-C5-C6 | -3.56 | 120.53 | 124.53 |
| 25 | 5 | 312 | CLA | CMB-C2B-C1B | -3.56 | 122.99 | 128.46 |
| 33 | U | 306 | CHL | CHA-C4D-ND | 3.56 | 139.95 | 132.50 |
| 25 | B | 829 | CLA | CMB-C2B-C1B | -3.56 | 123.00 | 128.46 |
| 33 | P | 606 | CHL | CHA-C4D-ND | 3.56 | 139.94 | 132.50 |
| 33 | P | 619 | CHL | CHD-C1D-ND | -3.56 | 121.19 | 124.45 |
| 34 | 6 | 622 | LUT | C18-C5-C6 | -3.56 | 120.53 | 124.53 |
| 33 | P | 622 | CHL | C2A-C1A-CHA | -3.55 | 117.64 | 123.86 |
| 28 | A | 846 | BCR | C33-C5-C6 | -3.55 | 120.54 | 124.53 |
| 33 | S | 308 | CHL | C3B-C4B-NB | 3.55 | 113.80 | 109.21 |
| 25 | 2 | 313 | CLA | CMB-C2B-C1B | -3.55 | 123.01 | 128.46 |
| 25 | a | 308 | CLA | O2D-CGD-O1D | -3.55 | 116.91 | 123.84 |
| 28 | B | 842 | BCR | C15-C14-C13 | -3.55 | 122.25 | 127.31 |
| 25 | a | 312 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 28 | 3 | 319 | BCR | C20-C19-C18 | -3.54 | 116.46 | 126.42 |
| 25 | H | 203 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 33 | T | 604 | CHL | C3B-C4B-NB | 3.54 | 113.79 | 109.21 |
| 35 | P | 620 | XAT | C26-C27-C28 | -3.54 | 118.51 | 125.99 |
| 34 | S | 317 | LUT | C31-C32-C33 | -3.54 | 116.47 | 126.42 |
| 33 | U | 306 | CHL | CHD-C1D-ND | -3.54 | 121.20 | 124.45 |
| 25 | Q | 610 | CLA | CMB-C2B-C1B | -3.54 | 123.03 | 128.46 |
| 25 | 8 | 315 | CLA | CMB-C2B-C1B | -3.54 | 123.03 | 128.46 |
| 33 | 5 | 317 | CHL | CHD-C4C-NC | 3.54 | 129.78 | 124.20 |
| 33 | T | 605 | CHL | CHA-C4D-ND | 3.54 | 139.90 | 132.50 |
| 33 | U | 305 | CHL | C2A-C1A-CHA | -3.54 | 117.68 | 123.86 |
| 33 | U | 305 | CHL | C3B-C4B-NB | 3.54 | 113.78 | 109.21 |
| 25 | 7 | 309 | CLA | CMB-C2B-C1B | -3.54 | 123.03 | 128.46 |
| 25 | A | 833 | CLA | CMB-C2B-C1B | -3.53 | 123.03 | 128.46 |
| 33 | U | 307 | CHL | CHA-C4D-ND | 3.53 | 139.89 | 132.50 |
| 27 | 1 | 618 | LHG | C5-O7-C7 | -3.53 | 109.09 | 117.79 |
| 28 | G | 203 | BCR | C33-C5-C6 | -3.53 | 120.56 | 124.53 |
| 33 | T | 606 | CHL | CHA-C4D-ND | 3.53 | 139.89 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | T | 616 | NEX | C17-C1-C6 | -3.53 | 107.31 | 110.47 |
| 25 | H | 205 | CLA | CMB-C2B-C3B | 3.53 | 131.28 | 124.68 |
| 25 | P | 603 | CLA | CMB-C2B-C1B | -3.53 | 123.04 | 128.46 |
| 33 | U | 308 | CHL | CAC-C3C-C4C | 3.53 | 129.39 | 124.81 |
| 33 | S | 309 | CHL | CHD-C4C-NC | 3.53 | 129.76 | 124.20 |
| 25 | B | 815 | CLA | O2D-CGD-O1D | -3.53 | 116.94 | 123.84 |
| 33 | Q | 605 | CHL | CAA-C2A-C3A | -3.53 | 107.87 | 116.10 |
| 34 | Q | 615 | LUT | C15-C14-C13 | -3.53 | 122.28 | 127.31 |
| 25 | 1 | 603 | CLA | CMB-C2B-C1B | -3.53 | 123.05 | 128.46 |
| 25 | 6 | 620 | CLA | CMB-C2B-C1B | -3.53 | 123.05 | 128.46 |
| 33 | P | 622 | CHL | CHA-C4D-ND | 3.52 | 139.87 | 132.50 |
| 34 | P | 614 | LUT | C11-C10-C9 | -3.52 | 122.28 | 127.31 |
| 25 | A | 842 | CLA | CAC-C3C-C2C | 3.52 | 133.55 | 127.53 |
| 25 | Q | 610 | CLA | CBD-CHA-C1A | 3.52 | 132.65 | 128.50 |
| 36 | R | 617 | NEX | C31-C30-C29 | -3.52 | 122.29 | 127.31 |
| 25 | B | 802 | CLA | CMB-C2B-C1B | -3.52 | 123.06 | 128.46 |
| 25 | 7 | 309 | CLA | CAA-C2A-C3A | -3.52 | 107.89 | 116.10 |
| 33 | 5 | 308 | CHL | O2A-CGA-CBA | 3.52 | 122.95 | 111.91 |
| 25 | L | 209 | CLA | CMB-C2B-C1B | -3.52 | 123.06 | 128.46 |
| 25 | 7 | 303 | CLA | CMB-C2B-C1B | -3.52 | 123.06 | 128.46 |
| 34 | T | 613 | LUT | C21-C26-C27 | -3.52 | 108.25 | 112.70 |
| 33 | 6 | 608 | CHL | CHD-C1D-ND | -3.52 | 121.22 | 124.45 |
| 33 | 8 | 307 | CHL | CHD-C1D-ND | -3.52 | 121.22 | 124.45 |
| 33 | 3 | 306 | CHL | C6-C5-C3 | -3.52 | 108.87 | 114.62 |
| 33 | 4 | 322 | CHL | CHA-C4D-ND | 3.51 | 139.85 | 132.50 |
| 34 | P | 614 | LUT | C35-C15-C14 | -3.51 | 116.28 | 123.47 |
| 25 | A | 853 | CLA | CMB-C2B-C1B | -3.51 | 123.06 | 128.46 |
| 25 | R | 603 | CLA | CMB-C2B-C1B | -3.51 | 123.06 | 128.46 |
| 27 | 5 | 301 | LHG | O7-C7-C8 | 3.51 | 119.07 | 111.50 |
| 25 | 3 | 320 | CLA | O2D-CGD-O1D | -3.51 | 116.97 | 123.84 |
| 28 | I | 201 | BCR | C33-C5-C4 | 3.51 | 120.36 | 113.62 |
| 33 | 1 | 601 | CHL | C1D-CHD-C4C | -3.51 | 118.48 | 126.06 |
| 28 | L | 203 | BCR | C38-C26-C25 | -3.51 | 120.59 | 124.53 |
| 33 | R | 606 | CHL | C3B-C4B-NB | 3.51 | 113.75 | 109.21 |
| 27 | Q | 617 | LHG | O7-C7-C8 | 3.51 | 119.06 | 111.50 |
| 33 | P | 605 | CHL | C3B-C4B-NB | 3.51 | 113.75 | 109.21 |
| 34 | U | 314 | LUT | C35-C15-C14 | -3.51 | 116.29 | 123.47 |
| 33 | S | 310 | CHL | CAC-C3C-C4C | 3.51 | 129.36 | 124.81 |
| 25 | B | 834 | CLA | O2D-CGD-O1D | -3.51 | 116.98 | 123.84 |
| 25 | A | 838 | CLA | CMB-C2B-C1B | -3.51 | 123.08 | 128.46 |
| 33 | 4 | 304 | CHL | C3B-C4B-NB | 3.51 | 113.74 | 109.21 |
| 33 | 6 | 617 | CHL | CAC-C3C-C4C | 3.51 | 129.36 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 825 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 25 | B | 833 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 25 | 1 | 609 | CLA | CMB-C2B-C3B | 3.50 | 131.23 | 124.68 |
| 25 | A | 834 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 25 | a | 309 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 33 | S | 306 | CHL | C1B-CHB-C4A | -3.50 | 123.18 | 130.12 |
| 33 | 1 | 601 | CHL | C1D-ND-C4D | 3.50 | 108.82 | 106.33 |
| 34 | R | 615 | LUT | C11-C10-C9 | -3.50 | 122.31 | 127.31 |
| 34 | 8 | 316 | LUT | C16-C1-C6 | -3.50 | 104.62 | 110.30 |
| 28 | 4 | 321 | BCR | C3-C4-C5 | -3.50 | 107.83 | 114.08 |
| 25 | S | 313 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 33 | R | 607 | CHL | C3B-C4B-NB | 3.50 | 113.73 | 109.21 |
| 33 | 8 | 307 | CHL | O2D-CGD-O1D | -3.50 | 117.00 | 123.84 |
| 33 | 8 | 307 | CHL | CAC-C3C-C4C | 3.50 | 129.35 | 124.81 |
| 34 | T | 614 | LUT | C35-C34-C33 | -3.50 | 122.32 | 127.31 |
| 33 | P | 607 | CHL | C3B-C4B-NB | 3.50 | 113.73 | 109.21 |
| 25 | S | 311 | CLA | CMB-C2B-C1B | -3.50 | 123.09 | 128.46 |
| 25 | 4 | 301 | CLA | CMB-C2B-C1B | -3.50 | 123.09 | 128.46 |
| 25 | B | 808 | CLA | CMB-C2B-C1B | -3.50 | 123.09 | 128.46 |
| 33 | R | 606 | CHL | CHA-C4D-ND | 3.49 | 139.81 | 132.50 |
| 25 | K | 202 | CLA | CMB-C2B-C1B | -3.49 | 123.10 | 128.46 |
| 28 | 8 | 318 | BCR | C16-C17-C18 | -3.49 | 122.33 | 127.31 |
| 34 | P | 615 | LUT | C15-C14-C13 | -3.49 | 122.33 | 127.31 |
| 25 | A | 801 | CLA | CMB-C2B-C3B | 3.49 | 131.21 | 124.68 |
| 33 | Q | 607 | CHL | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 25 | 6 | 612 | CLA | CMB-C2B-C1B | -3.49 | 123.10 | 128.46 |
| 33 | T | 601 | CHL | CHA-C4D-ND | 3.49 | 139.79 | 132.50 |
| 25 | 7 | 302 | CLA | CMB-C2B-C1B | -3.49 | 123.11 | 128.46 |
| 28 | I | 201 | BCR | C11-C10-C9 | -3.49 | 122.34 | 127.31 |
| 33 | Q | 606 | CHL | CAC-C3C-C4C | 3.49 | 129.33 | 124.81 |
| 33 | Q | 605 | CHL | CHD-C1D-ND | -3.48 | 121.25 | 124.45 |
| 33 | 4 | 322 | CHL | C4-C3-C5 | 3.48 | 121.13 | 115.27 |
| 34 | 4 | 315 | LUT | C15-C14-C13 | -3.48 | 122.34 | 127.31 |
| 28 | K | 206 | BCR | C36-C18-C17 | -3.48 | 118.05 | 122.92 |
| 25 | B | 824 | CLA | CMB-C2B-C1B | -3.48 | 123.11 | 128.46 |
| 33 | 4 | 306 | CHL | C1-C2-C3 | -3.48 | 121.12 | 126.75 |
| 34 | R | 615 | LUT | C7-C8-C9 | -3.48 | 120.98 | 126.23 |
| 25 | O | 202 | CLA | CMB-C2B-C1B | -3.48 | 123.12 | 128.46 |
| 25 | B | 828 | CLA | CMB-C2B-C1B | -3.48 | 123.12 | 128.46 |
| 34 | U | 315 | LUT | C15-C14-C13 | -3.48 | 122.35 | 127.31 |
| 34 | S | 316 | LUT | C18-C5-C6 | -3.48 | 120.62 | 124.53 |
| 33 | U | 308 | CHL | CHA-C4D-ND | 3.48 | 139.77 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 35 | S | 318 | XAT | C26-C27-C28 | -3.47 | 118.65 | 125.99 |
| 33 | P | 619 | CHL | C3B-C4B-NB | 3.47 | 113.70 | 109.21 |
| 33 | 6 | 607 | CHL | CHA-C4D-ND | 3.47 | 139.77 | 132.50 |
| 36 | P | 621 | NEX | C27-C28-C29 | -3.47 | 120.14 | 125.53 |
| 25 | P | 602 | CLA | CMB-C2B-C3B | 3.47 | 131.18 | 124.68 |
| 25 | G | 201 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 33 | T | 605 | CHL | C3B-C4B-NB | 3.47 | 113.70 | 109.21 |
| 25 | J | 103 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 25 | S | 315 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 33 | Q | 601 | CHL | C2A-C1A-CHA | -3.47 | 117.79 | 123.86 |
| 33 | S | 302 | CHL | CMD-C2D-C3D | -3.47 | 119.63 | 127.61 |
| 25 | 3 | 314 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 33 | S | 309 | CHL | C3B-C4B-NB | 3.47 | 113.70 | 109.21 |
| 25 | S | 312 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 25 | 3 | 305 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 33 | T | 604 | CHL | CHD-C1D-ND | -3.47 | 121.27 | 124.45 |
| 33 | P | 608 | CHL | CHA-C4D-ND | 3.47 | 139.75 | 132.50 |
| 32 | 6 | 602 | LMG | C4-C3-C2 | 3.47 | 116.88 | 110.82 |
| 34 | 1 | 615 | LUT | C35-C15-C14 | -3.47 | 116.37 | 123.47 |
| 28 | 8 | 301 | BCR | C24-C23-C22 | -3.47 | 121.00 | 126.23 |
| 34 | 7 | 314 | LUT | C7-C8-C9 | -3.47 | 121.00 | 126.23 |
| 25 | A | 827 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 33 | 4 | 322 | CHL | C3C-C4C-NC | 3.47 | 114.46 | 110.57 |
| 33 | P | 619 | CHL | CAC-C3C-C4C | 3.47 | 129.31 | 124.81 |
| 33 | S | 308 | CHL | CAC-C3C-C4C | 3.47 | 129.31 | 124.81 |
| 25 | 6 | 623 | CLA | CMB-C2B-C1B | -3.46 | 123.14 | 128.46 |
| 25 | 9 | 301 | CLA | CAB-C3B-C4B | -3.46 | 123.14 | 128.46 |
| 33 | R | 601 | CHL | C2A-C1A-CHA | -3.46 | 117.80 | 123.86 |
| 33 | P | 608 | CHL | C3B-C4B-NB | 3.46 | 113.69 | 109.21 |
| 33 | R | 605 | CHL | CHD-C1D-ND | -3.46 | 121.27 | 124.45 |
| 33 | 3 | 306 | CHL | C1D-ND-C4D | 3.46 | 108.80 | 106.33 |
| 34 | 8 | 316 | LUT | C15-C14-C13 | -3.46 | 122.37 | 127.31 |
| 25 | 3 | 308 | CLA | CMB-C2B-C1B | -3.46 | 123.14 | 128.46 |
| 25 | 9 | 308 | CLA | CMB-C2B-C1B | -3.46 | 123.14 | 128.46 |
| 33 | 6 | 607 | CHL | C3B-C4B-NB | 3.46 | 113.69 | 109.21 |
| 33 | Q | 607 | CHL | CHA-C4D-ND | 3.46 | 139.74 | 132.50 |
| 33 | 6 | 606 | CHL | C1D-ND-C4D | 3.46 | 108.79 | 106.33 |
| 25 | B | 836 | CLA | CMB-C2B-C1B | -3.46 | 123.14 | 128.46 |
| 33 | P | 601 | CHL | C2A-C1A-CHA | -3.46 | 117.81 | 123.86 |
| 25 | U | 304 | CLA | CMB-C2B-C1B | -3.46 | 123.15 | 128.46 |
| 25 | A | 824 | CLA | O2D-CGD-O1D | -3.46 | 117.08 | 123.84 |
| 25 | a | 306 | CLA | CMB-C2B-C1B | -3.46 | 123.15 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | A | 846 | BCR | C7-C8-C9 | -3.46 | 121.01 | 126.23 |
| 27 | a | 317 | LHG | C5-O7-C7 | -3.45 | 109.28 | 117.79 |
| 25 | A | 837 | CLA | CMB-C2B-C1B | -3.45 | 123.15 | 128.46 |
| 35 | P | 616 | XAT | C26-C27-C28 | -3.45 | 118.69 | 125.99 |
| 25 | T | 602 | CLA | CMB-C2B-C3B | 3.45 | 131.14 | 124.68 |
| 33 | R | 608 | CHL | C3B-C4B-NB | 3.45 | 113.67 | 109.21 |
| 28 | F | 803 | BCR | C21-C20-C19 | -3.45 | 112.44 | 123.22 |
| 33 | P | 605 | CHL | CHA-C4D-ND | 3.45 | 139.72 | 132.50 |
| 33 | 4 | 305 | CHL | C2A-C1A-CHA | -3.45 | 117.82 | 123.86 |
| 34 | a | 314 | LUT | C18-C5-C6 | -3.45 | 120.65 | 124.53 |
| 33 | U | 307 | CHL | C3B-C4B-NB | 3.45 | 113.67 | 109.21 |
| 28 | F | 803 | BCR | C15-C16-C17 | -3.45 | 116.41 | 123.47 |
| 25 | A | 821 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 25 | A | 831 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 33 | 5 | 308 | CHL | C3C-C4C-NC | 3.45 | 114.44 | 110.57 |
| 33 | Q | 606 | CHL | CHD-C1D-ND | -3.45 | 121.28 | 124.45 |
| 33 | 6 | 617 | CHL | C3B-C4B-NB | 3.45 | 113.67 | 109.21 |
| 25 | K | 201 | CLA | O2D-CGD-O1D | -3.45 | 117.09 | 123.84 |
| 25 | 5 | 313 | CLA | O2D-CGD-O1D | -3.45 | 117.10 | 123.84 |
| 28 | F | 803 | BCR | C1-C6-C5 | -3.44 | 117.76 | 122.61 |
| 25 | 3 | 310 | CLA | CMB-C2B-C1B | -3.44 | 123.17 | 128.46 |
| 33 | 5 | 317 | CHL | CHA-C4D-ND | 3.44 | 139.70 | 132.50 |
| 33 | P | 607 | CHL | CAC-C3C-C4C | 3.44 | 129.28 | 124.81 |
| 25 | A | 833 | CLA | O2D-CGD-O1D | -3.44 | 117.11 | 123.84 |
| 25 | R | 612 | CLA | C11-C10-C8 | 3.44 | 127.05 | 115.92 |
| 25 | 4 | 308 | CLA | CMB-C2B-C1B | -3.44 | 123.17 | 128.46 |
| 33 | Q | 605 | CHL | C1D-ND-C4D | 3.44 | 108.78 | 106.33 |
| 33 | 4 | 322 | CHL | C1D-CHD-C4C | -3.44 | 118.64 | 126.06 |
| 25 | A | 802 | CLA | CMB-C2B-C3B | 3.44 | 131.11 | 124.68 |
| 33 | U | 306 | CHL | C3B-C4B-NB | 3.44 | 113.66 | 109.21 |
| 36 | R | 617 | NEX | C17-C1-C6 | -3.44 | 107.39 | 110.47 |
| 33 | U | 309 | CHL | CHA-C4D-ND | 3.44 | 139.69 | 132.50 |
| 25 | B | 801 | CLA | CMB-C2B-C1B | -3.44 | 123.18 | 128.46 |
| 32 | 6 | 602 | LMG | C3-C4-C5 | 3.44 | 116.37 | 110.24 |
| 33 | R | 608 | CHL | CHA-C4D-ND | 3.44 | 139.69 | 132.50 |
| 33 | R | 605 | CHL | CAA-C2A-C3A | -3.43 | 103.37 | 112.78 |
| 34 | 8 | 317 | LUT | C18-C5-C6 | -3.43 | 120.67 | 124.53 |
| 28 | A | 854 | BCR | C33-C5-C6 | -3.43 | 120.67 | 124.53 |
| 25 | P | 612 | CLA | C11-C10-C8 | 3.43 | 127.01 | 115.92 |
| 25 | a | 310 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 25 | K | 204 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 25 | S | 301 | CLA | CMB-C2B-C3B | 3.43 | 131.09 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 838 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 25 | H | 202 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 25 | P | 603 | CLA | CHB-C4A-NA | 3.43 | 129.25 | 124.51 |
| 28 | 7 | 316 | BCR | C16-C17-C18 | -3.43 | 122.42 | 127.31 |
| 33 | S | 321 | CHL | CHD-C4C-NC | 3.43 | 129.60 | 124.20 |
| 33 | R | 608 | CHL | CAC-C3C-C4C | 3.43 | 129.25 | 124.81 |
| 28 | I | 201 | BCR | C16-C15-C14 | -3.42 | 116.46 | 123.47 |
| 34 | R | 616 | LUT | C18-C5-C6 | -3.42 | 120.68 | 124.53 |
| 33 | 1 | 601 | CHL | C3C-C4C-NC | 3.42 | 114.41 | 110.57 |
| 34 | R | 615 | LUT | C35-C15-C14 | -3.42 | 116.46 | 123.47 |
| 25 | 4 | 308 | CLA | O2D-CGD-O1D | -3.42 | 117.15 | 123.84 |
| 25 | K | 201 | CLA | CMB-C2B-C1B | -3.42 | 123.20 | 128.46 |
| 33 | 1 | 606 | CHL | C1D-CHD-C4C | -3.42 | 118.68 | 126.06 |
| 36 | U | 301 | NEX | C11-C12-C13 | -3.42 | 116.81 | 126.42 |
| 34 | 4 | 315 | LUT | C7-C8-C9 | -3.42 | 121.07 | 126.23 |
| 33 | U | 306 | CHL | C1D-ND-C4D | 3.42 | 108.76 | 106.33 |
| 25 | P | 611 | CLA | C4D-CHA-C1A | -3.42 | 117.09 | 121.25 |
| 28 | I | 201 | BCR | C7-C8-C9 | -3.42 | 121.07 | 126.23 |
| 33 | Q | 605 | CHL | C3B-C4B-NB | 3.42 | 113.63 | 109.21 |
| 33 | R | 606 | CHL | CHD-C1D-ND | -3.42 | 121.31 | 124.45 |
| 25 | B | 806 | CLA | O2D-CGD-O1D | -3.41 | 117.16 | 123.84 |
| 33 | 3 | 306 | CHL | C1-C2-C3 | -3.41 | 120.14 | 126.04 |
| 33 | S | 308 | CHL | CHD-C1D-ND | -3.41 | 121.32 | 124.45 |
| 27 | 5 | 321 | LHG | C5-O7-C7 | -3.41 | 109.39 | 117.79 |
| 25 | B | 820 | CLA | CMB-C2B-C1B | -3.41 | 123.23 | 128.46 |
| 25 | 1 | 613 | CLA | O1D-CGD-CBD | 3.41 | 131.46 | 124.48 |
| 25 | L | 209 | CLA | CAA-C2A-C3A | -3.41 | 108.15 | 116.10 |
| 33 | 9 | 306 | CHL | C3C-C4C-NC | 3.41 | 114.39 | 110.57 |
| 33 | R | 607 | CHL | CAC-C3C-C4C | 3.41 | 129.23 | 124.81 |
| 25 | 5 | 316 | CLA | CMB-C2B-C1B | -3.41 | 123.23 | 128.46 |
| 28 | L | 207 | BCR | C24-C23-C22 | -3.40 | 121.09 | 126.23 |
| 33 | P | 608 | CHL | CAC-C3C-C4C | 3.40 | 129.23 | 124.81 |
| 25 | R | 602 | CLA | CMB-C2B-C3B | 3.40 | 131.05 | 124.68 |
| 33 | Q | 607 | CHL | CAC-C3C-C4C | 3.40 | 129.22 | 124.81 |
| 33 | T | 604 | CHL | CAA-C2A-C3A | -3.40 | 103.46 | 112.78 |
| 36 | P | 617 | NEX | C31-C30-C29 | -3.40 | 122.45 | 127.31 |
| 28 | J | 106 | BCR | C23-C22-C21 | 3.40 | 124.16 | 118.94 |
| 33 | S | 321 | CHL | C3B-C4B-NB | 3.40 | 113.61 | 109.21 |
| 28 | B | 842 | BCR | C3-C4-C5 | -3.40 | 108.01 | 114.08 |
| 25 | R | 604 | CLA | CMB-C2B-C3B | 3.40 | 131.04 | 124.68 |
| 33 | 4 | 306 | CHL | CHD-C1D-ND | -3.40 | 121.33 | 124.45 |
| 25 | 4 | 313 | CLA | CMB-C2B-C1B | -3.40 | 123.24 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 839 | CLA | CMB-C2B-C1B | -3.39 | 123.25 | 128.46 |
| 28 | B | 841 | BCR | C1-C6-C5 | -3.39 | 117.83 | 122.61 |
| 33 | 4 | 305 | CHL | CHA-C4D-ND | 3.39 | 139.60 | 132.50 |
| 25 | 1 | 604 | CLA | CMB-C2B-C1B | -3.39 | 123.25 | 128.46 |
| 28 | L | 208 | BCR | C11-C10-C9 | -3.39 | 122.47 | 127.31 |
| 33 | 1 | 601 | CHL | CHD-C4C-NC | 3.39 | 129.55 | 124.20 |
| 33 | 4 | 304 | CHL | C1B-CHB-C4A | -3.39 | 123.40 | 130.12 |
| 33 | a | 305 | CHL | CHA-C4D-ND | 3.39 | 139.59 | 132.50 |
| 28 | F | 803 | BCR | C11-C12-C13 | -3.39 | 116.89 | 126.42 |
| 25 | 3 | 311 | CLA | O2D-CGD-O1D | -3.39 | 117.21 | 123.84 |
| 28 | 7 | 316 | BCR | C38-C26-C25 | -3.39 | 120.72 | 124.53 |
| 25 | R | 614 | CLA | O2D-CGD-O1D | -3.39 | 117.21 | 123.84 |
| 28 | 4 | 321 | BCR | C38-C26-C27 | 3.39 | 120.12 | 113.62 |
| 34 | 4 | 315 | LUT | C20-C13-C12 | 3.39 | 123.41 | 118.08 |
| 33 | S | 302 | CHL | CHD-C4C-NC | 3.39 | 129.54 | 124.20 |
| 25 | 2 | 314 | CLA | O2D-CGD-O1D | -3.39 | 117.22 | 123.84 |
| 25 | R | 613 | CLA | CMB-C2B-C1B | -3.38 | 123.26 | 128.46 |
| 33 | T | 605 | CHL | C1D-ND-C4D | 3.38 | 108.74 | 106.33 |
| 25 | Q | 609 | CLA | CMB-C2B-C3B | 3.38 | 131.01 | 124.68 |
| 25 | U | 312 | CLA | CMB-C2B-C1B | -3.38 | 123.27 | 128.46 |
| 25 | G | 202 | CLA | CMB-C2B-C3B | 3.38 | 131.00 | 124.68 |
| 28 | 4 | 321 | BCR | C33-C5-C4 | 3.38 | 120.11 | 113.62 |
| 33 | 3 | 306 | CHL | C3B-C4B-NB | 3.38 | 113.58 | 109.21 |
| 25 | B | 825 | CLA | CMB-C2B-C1B | -3.38 | 123.27 | 128.46 |
| 34 | 5 | 322 | LUT | C3-C4-C5 | -3.38 | 105.12 | 111.85 |
| 25 | 8 | 313 | CLA | CMB-C2B-C1B | -3.38 | 123.27 | 128.46 |
| 33 | S | 321 | CHL | CHA-C4D-ND | 3.38 | 139.56 | 132.50 |
| 25 | a | 313 | CLA | CMB-C2B-C1B | -3.38 | 123.27 | 128.46 |
| 34 | Q | 615 | LUT | C10-C11-C12 | -3.37 | 112.69 | 123.22 |
| 25 | S | 320 | CLA | CMB-C2B-C1B | -3.37 | 123.28 | 128.46 |
| 25 | T | 603 | CLA | CMB-C2B-C1B | -3.37 | 123.28 | 128.46 |
| 25 | 5 | 302 | CLA | O2D-CGD-O1D | -3.37 | 117.25 | 123.84 |
| 33 | S | 308 | CHL | CHD-C4C-NC | 3.37 | 129.51 | 124.20 |
| 25 | U | 313 | CLA | CMB-C2B-C1B | -3.37 | 123.28 | 128.46 |
| 25 | B | 803 | CLA | CMB-C2B-C3B | 3.37 | 130.98 | 124.68 |
| 25 | P | 613 | CLA | CMB-C2B-C1B | -3.37 | 123.29 | 128.46 |
| 32 | J | 107 | LMG | O7-C10-C11 | 3.37 | 118.76 | 111.50 |
| 25 | B | 816 | CLA | O2D-CGD-O1D | -3.37 | 117.25 | 123.84 |
| 25 | B | 811 | CLA | CMB-C2B-C1B | -3.37 | 123.29 | 128.46 |
| 33 | 5 | 307 | CHL | O2A-CGA-CBA | 3.37 | 122.47 | 111.91 |
| 33 | T | 606 | CHL | C3B-C4B-NB | 3.37 | 113.56 | 109.21 |
| 34 | U | 315 | LUT | C35-C34-C33 | -3.37 | 122.51 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | B | 842 | BCR | C33-C5-C4 | 3.37 | 120.08 | 113.62 |
| 33 | U | 308 | CHL | C1D-ND-C4D | 3.37 | 108.73 | 106.33 |
| 28 | A | 849 | BCR | C10-C11-C12 | -3.36 | 112.72 | 123.22 |
| 36 | P | 621 | NEX | C24-C23-C22 | -3.36 | 104.28 | 110.77 |
| 25 | R | 611 | CLA | C1-O2A-CGA | 3.36 | 125.27 | 116.44 |
| 25 | 4 | 310 | CLA | CHB-C4A-NA | 3.36 | 129.16 | 124.51 |
| 33 | Q | 601 | CHL | CHA-C4D-ND | 3.36 | 139.53 | 132.50 |
| 34 | 8 | 317 | LUT | C15-C14-C13 | -3.36 | 122.52 | 127.31 |
| 33 | P | 601 | CHL | CHA-C4D-ND | 3.36 | 139.53 | 132.50 |
| 25 | A | 822 | CLA | CMB-C2B-C1B | -3.36 | 123.30 | 128.46 |
| 25 | 5 | 306 | CLA | CMB-C2B-C1B | -3.36 | 123.30 | 128.46 |
| 33 | S | 310 | CHL | CHA-C4D-ND | 3.36 | 139.52 | 132.50 |
| 25 | 5 | 305 | CLA | CMB-C2B-C1B | -3.36 | 123.31 | 128.46 |
| 33 | 7 | 305 | CHL | CHD-C1D-ND | -3.36 | 121.37 | 124.45 |
| 33 | 5 | 307 | CHL | CHC-C1C-NC | 3.36 | 129.29 | 124.20 |
| 36 | T | 616 | NEX | C31-C30-C29 | -3.36 | 122.52 | 127.31 |
| 33 | 8 | 307 | CHL | C1D-CHD-C4C | -3.36 | 118.82 | 126.06 |
| 33 | Q | 606 | CHL | C1D-ND-C4D | 3.35 | 108.72 | 106.33 |
| 33 | 6 | 607 | CHL | C3C-C4C-NC | 3.35 | 114.33 | 110.57 |
| 25 | K | 203 | CLA | CMB-C2B-C1B | -3.35 | 123.31 | 128.46 |
| 28 | K | 206 | BCR | C11-C10-C9 | -3.35 | 122.53 | 127.31 |
| 33 | 4 | 306 | CHL | CAC-C3C-C4C | 3.35 | 129.16 | 124.81 |
| 33 | S | 310 | CHL | CHD-C1D-ND | -3.35 | 121.37 | 124.45 |
| 28 | 8 | 318 | BCR | C23-C24-C25 | -3.35 | 117.79 | 127.20 |
| 28 | B | 843 | BCR | C7-C8-C9 | -3.35 | 121.17 | 126.23 |
| 25 | B | 807 | CLA | O2D-CGD-O1D | -3.35 | 117.29 | 123.84 |
| 25 | 4 | 303 | CLA | O2D-CGD-O1D | -3.35 | 117.29 | 123.84 |
| 25 | R | 610 | CLA | CMB-C2B-C3B | 3.35 | 130.94 | 124.68 |
| 33 | 4 | 314 | CHL | C3B-C4B-NB | 3.35 | 113.54 | 109.21 |
| 25 | A | 812 | CLA | CMB-C2B-C3B | 3.35 | 130.94 | 124.68 |
| 33 | S | 321 | CHL | C4A-NA-C1A | -3.35 | 105.20 | 106.71 |
| 33 | R | 601 | CHL | CHA-C4D-ND | 3.35 | 139.50 | 132.50 |
| 25 | 2 | 302 | CLA | CMB-C2B-C1B | -3.35 | 123.32 | 128.46 |
| 25 | 8 | 306 | CLA | CMB-C2B-C1B | -3.35 | 123.32 | 128.46 |
| 25 | K | 204 | CLA | CHB-C4A-NA | 3.35 | 129.14 | 124.51 |
| 25 | T | 609 | CLA | CMB-C2B-C1B | -3.34 | 123.32 | 128.46 |
| 25 | 7 | 312 | CLA | O2D-CGD-O1D | -3.34 | 117.30 | 123.84 |
| 36 | P | 617 | NEX | C39-C29-C30 | -3.34 | 118.24 | 122.92 |
| 28 | L | 203 | BCR | C20-C21-C22 | -3.34 | 122.54 | 127.31 |
| 33 | 5 | 308 | CHL | CHD-C4C-NC | 3.34 | 129.47 | 124.20 |
| 35 | P | 623 | XAT | C10-C11-C12 | -3.34 | 116.33 | 124.67 |
| 28 | F | 803 | BCR | C33-C5-C4 | 3.34 | 120.03 | 113.62 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | Q | 614 | LUT | C35-C15-C14 | -3.34 | 116.63 | 123.47 |
| 25 | L | 201 | CLA | O2D-CGD-O1D | -3.34 | 117.31 | 123.84 |
| 33 | T | 604 | CHL | C1D-ND-C4D | 3.34 | 108.71 | 106.33 |
| 34 | 9 | 313 | LUT | C35-C34-C33 | -3.34 | 122.55 | 127.31 |
| 25 | B | 825 | CLA | O2D-CGD-O1D | -3.34 | 117.31 | 123.84 |
| 28 | 3 | 318 | BCR | C15-C16-C17 | -3.34 | 116.64 | 123.47 |
| 36 | P | 621 | NEX | C26-C27-C28 | -3.34 | 118.94 | 125.99 |
| 25 | U | 310 | CLA | CMB-C2B-C3B | 3.34 | 130.92 | 124.68 |
| 28 | B | 851 | BCR | C3-C4-C5 | -3.34 | 108.12 | 114.08 |
| 25 | 3 | 309 | CLA | CAA-C2A-C3A | -3.34 | 108.31 | 116.10 |
| 33 | P | 606 | CHL | C1D-ND-C4D | 3.33 | 108.70 | 106.33 |
| 25 | 5 | 315 | CLA | CMB-C2B-C1B | -3.33 | 123.34 | 128.46 |
| 36 | T | 616 | NEX | C11-C12-C13 | -3.33 | 117.05 | 126.42 |
| 25 | B | 830 | CLA | CMB-C2B-C1B | -3.33 | 123.34 | 128.46 |
| 33 | 9 | 307 | CHL | CHD-C1D-ND | -3.33 | 121.39 | 124.45 |
| 25 | 6 | 616 | CLA | CMB-C2B-C1B | -3.33 | 123.35 | 128.46 |
| 32 | J | 107 | LMG | C7-O1-C1 | -3.33 | 107.24 | 113.74 |
| 25 | 3 | 311 | CLA | CMB-C2B-C1B | -3.33 | 123.35 | 128.46 |
| 25 | 8 | 305 | CLA | CMB-C2B-C1B | -3.33 | 123.35 | 128.46 |
| 28 | B | 851 | BCR | C16-C15-C14 | -3.33 | 116.66 | 123.47 |
| 25 | Q | 603 | CLA | CMB-C2B-C1B | -3.32 | 123.35 | 128.46 |
| 27 | R | 618 | LHG | O7-C7-C8 | 3.32 | 118.67 | 111.50 |
| 33 | 1 | 601 | CHL | C3B-C4B-NB | 3.32 | 113.51 | 109.21 |
| 33 | S | 310 | CHL | C1D-ND-C4D | 3.32 | 108.70 | 106.33 |
| 33 | S | 309 | CHL | C1-C2-C3 | -3.32 | 120.30 | 126.04 |
| 28 | L | 203 | BCR | C4-C5-C6 | -3.32 | 117.91 | 122.73 |
| 33 | 9 | 307 | CHL | C1D-CHD-C4C | -3.32 | 118.89 | 126.06 |
| 25 | 1 | 604 | CLA | C2D-C1D-ND | -3.32 | 107.66 | 110.10 |
| 33 | 5 | 317 | CHL | CHD-C1D-ND | -3.32 | 121.40 | 124.45 |
| 25 | B | 810 | CLA | CMB-C2B-C1B | -3.32 | 123.36 | 128.46 |
| 36 | P | 617 | NEX | C11-C12-C13 | -3.32 | 117.09 | 126.42 |
| 36 | P | 621 | NEX | C17-C1-C16 | 3.32 | 118.71 | 108.53 |
| 33 | 6 | 617 | CHL | C1D-ND-C4D | 3.32 | 108.69 | 106.33 |
| 28 | O | 205 | BCR | C24-C23-C22 | -3.32 | 121.22 | 126.23 |
| 25 | 2 | 310 | CLA | CMB-C2B-C1B | -3.31 | 123.37 | 128.46 |
| 34 | Q | 614 | LUT | C11-C10-C9 | -3.31 | 122.58 | 127.31 |
| 27 | P | 624 | LHG | O7-C7-C8 | 3.31 | 118.64 | 111.50 |
| 34 | P | 614 | LUT | C18-C5-C6 | -3.31 | 120.81 | 124.53 |
| 25 | 3 | 309 | CLA | CMB-C2B-C1B | -3.31 | 123.37 | 128.46 |
| 25 | a | 308 | CLA | CMB-C2B-C3B | 3.31 | 130.87 | 124.68 |
| 35 | S | 318 | XAT | C31-C30-C29 | -3.31 | 122.58 | 127.31 |
| 25 | A | 814 | CLA | CMB-C2B-C3B | 3.31 | 130.87 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 4 | 322 | CHL | CBA-CAA-C2A | -3.31 | 104.09 | 113.86 |
| 28 | 8 | 301 | BCR | C11-C10-C9 | -3.31 | 122.59 | 127.31 |
| 27 | P | 618 | LHG | O7-C7-C8 | 3.31 | 118.63 | 111.50 |
| 25 | A | 819 | CLA | CMB-C2B-C3B | 3.31 | 130.87 | 124.68 |
| 33 | U | 309 | CHL | OBD-CAD-C3D | -3.31 | 120.56 | 128.52 |
| 33 | R | 606 | CHL | C1D-ND-C4D | 3.31 | 108.69 | 106.33 |
| 33 | 5 | 308 | CHL | C1D-ND-C4D | 3.31 | 108.69 | 106.33 |
| 33 | R | 605 | CHL | O2D-CGD-O1D | -3.30 | 117.38 | 123.84 |
| 33 | 1 | 601 | CHL | CHA-C4D-ND | 3.30 | 139.41 | 132.50 |
| 33 | T | 606 | CHL | CHD-C4C-NC | 3.30 | 129.41 | 124.20 |
| 25 | 4 | 310 | CLA | CMB-C2B-C3B | 3.30 | 130.86 | 124.68 |
| 25 | 5 | 313 | CLA | CHB-C4A-NA | 3.30 | 129.08 | 124.51 |
| 25 | a | 308 | CLA | C3C-C4C-NC | -3.30 | 106.87 | 110.57 |
| 33 | 6 | 608 | CHL | C3C-C4C-NC | 3.30 | 114.27 | 110.57 |
| 33 | 3 | 306 | CHL | CHD-C1D-ND | -3.30 | 121.42 | 124.45 |
| 33 | P | 622 | CHL | C1D-CHD-C4C | -3.30 | 118.94 | 126.06 |
| 25 | A | 832 | CLA | CMB-C2B-C1B | -3.30 | 123.39 | 128.46 |
| 25 | 7 | 301 | CLA | CMB-C2B-C1B | -3.30 | 123.39 | 128.46 |
| 25 | 1 | 609 | CLA | CMB-C2B-C1B | -3.30 | 123.39 | 128.46 |
| 28 | 3 | 317 | BCR | C20-C21-C22 | -3.30 | 122.60 | 127.31 |
| 34 | 3 | 315 | LUT | C15-C14-C13 | -3.30 | 122.60 | 127.31 |
| 35 | Q | 616 | XAT | C24-C23-C22 | -3.30 | 104.41 | 110.77 |
| 33 | 6 | 607 | CHL | CHD-C1D-ND | -3.29 | 121.43 | 124.45 |
| 34 | a | 316 | LUT | C1-C2-C3 | 3.29 | 121.08 | 113.64 |
| 33 | S | 307 | CHL | C1B-CHB-C4A | -3.29 | 123.59 | 130.12 |
| 25 | B | 812 | CLA | O2D-CGD-O1D | -3.29 | 117.40 | 123.84 |
| 30 | B | 848 | DGD | O2G-C1B-C2B | 3.29 | 118.60 | 111.50 |
| 33 | U | 308 | CHL | C3B-C4B-NB | 3.29 | 113.47 | 109.21 |
| 25 | 7 | 306 | CLA | CMB-C2B-C1B | -3.29 | 123.40 | 128.46 |
| 25 | 2 | 313 | CLA | CAA-C2A-C3A | -3.29 | 103.77 | 112.78 |
| 33 | T | 607 | CHL | C4-C3-C5 | 3.29 | 119.74 | 115.98 |
| 33 | a | 305 | CHL | C1D-CHD-C4C | -3.29 | 118.96 | 126.06 |
| 25 | A | 822 | CLA | O2D-CGD-O1D | -3.29 | 117.41 | 123.84 |
| 33 | U | 306 | CHL | CHD-C4C-NC | 3.29 | 129.38 | 124.20 |
| 25 | O | 203 | CLA | CMB-C2B-C1B | -3.29 | 123.41 | 128.46 |
| 25 | B | 837 | CLA | O2D-CGD-O1D | -3.29 | 117.41 | 123.84 |
| 28 | O | 205 | BCR | C34-C9-C10 | -3.29 | 118.32 | 122.92 |
| 25 | T | 610 | CLA | CMB-C2B-C1B | -3.29 | 123.41 | 128.46 |
| 33 | 6 | 607 | CHL | C1D-ND-C4D | 3.29 | 108.67 | 106.33 |
| 25 | A | 805 | CLA | CMB-C2B-C1B | -3.28 | 123.42 | 128.46 |
| 28 | O | 205 | BCR | C3-C4-C5 | -3.28 | 108.21 | 114.08 |
| 25 | L | 206 | CLA | CMB-C2B-C1B | -3.28 | 123.42 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | U | 316 | NEX | C31-C30-C29 | -3.28 | 122.63 | 127.31 |
| 28 | A | 849 | BCR | C19-C18-C17 | 3.28 | 123.98 | 118.94 |
| 34 | P | 615 | LUT | C10-C11-C12 | -3.28 | 112.98 | 123.22 |
| 28 | 3 | 318 | BCR | C38-C26-C27 | 3.28 | 119.92 | 113.62 |
| 25 | O | 201 | CLA | CAA-C2A-C3A | -3.28 | 108.44 | 116.10 |
| 28 | 7 | 316 | BCR | C33-C5-C4 | 3.28 | 119.92 | 113.62 |
| 28 | B | 843 | BCR | C38-C26-C25 | -3.28 | 120.85 | 124.53 |
| 34 | 7 | 314 | LUT | C18-C5-C4 | 3.28 | 120.43 | 114.36 |
| 28 | 5 | 320 | BCR | C38-C26-C25 | -3.28 | 120.85 | 124.53 |
| 25 | 9 | 302 | CLA | CMB-C2B-C3B | 3.28 | 130.81 | 124.68 |
| 25 | B | 828 | CLA | O2D-CGD-O1D | -3.28 | 117.43 | 123.84 |
| 34 | 6 | 619 | LUT | C15-C14-C13 | -3.27 | 122.64 | 127.31 |
| 25 | T | 608 | CLA | CMB-C2B-C3B | 3.27 | 130.80 | 124.68 |
| 25 | A | 842 | CLA | CAC-C3C-C4C | -3.27 | 120.57 | 124.81 |
| 34 | U | 315 | LUT | C18-C5-C6 | -3.27 | 120.86 | 124.53 |
| 33 | S | 309 | CHL | CHD-C1D-ND | -3.27 | 121.45 | 124.45 |
| 28 | 3 | 317 | BCR | C38-C26-C25 | -3.27 | 120.86 | 124.53 |
| 33 | T | 605 | CHL | CHD-C4C-NC | 3.27 | 129.35 | 124.20 |
| 25 | F | 802 | CLA | CMB-C2B-C1B | -3.27 | 123.44 | 128.46 |
| 25 | B | 810 | CLA | O2D-CGD-O1D | -3.27 | 117.45 | 123.84 |
| 25 | 6 | 611 | CLA | O2D-CGD-O1D | -3.27 | 117.45 | 123.84 |
| 25 | S | 305 | CLA | CMB-C2B-C3B | 3.27 | 130.79 | 124.68 |
| 25 | A | 831 | CLA | O2D-CGD-O1D | -3.26 | 117.45 | 123.84 |
| 25 | B | 837 | CLA | CMB-C2B-C1B | -3.26 | 123.45 | 128.46 |
| 34 | T | 613 | LUT | C11-C10-C9 | -3.26 | 122.65 | 127.31 |
| 36 | U | 316 | NEX | C11-C12-C13 | -3.26 | 117.25 | 126.42 |
| 34 | T | 613 | LUT | C35-C15-C14 | -3.26 | 116.79 | 123.47 |
| 25 | a | 304 | CLA | CMB-C2B-C1B | -3.26 | 123.45 | 128.46 |
| 28 | J | 106 | BCR | C20-C19-C18 | -3.26 | 117.26 | 126.42 |
| 34 | a | 315 | LUT | C35-C34-C33 | -3.26 | 122.66 | 127.31 |
| 25 | U | 311 | CLA | CMB-C2B-C1B | -3.26 | 123.46 | 128.46 |
| 28 | I | 201 | BCR | C33-C5-C6 | -3.26 | 120.87 | 124.53 |
| 25 | 6 | 620 | CLA | O2D-CGD-O1D | -3.26 | 117.47 | 123.84 |
| 25 | 9 | 310 | CLA | O2D-CGD-O1D | -3.26 | 117.47 | 123.84 |
| 25 | Q | 611 | CLA | CMB-C2B-C1B | -3.26 | 123.46 | 128.46 |
| 33 | 6 | 608 | CHL | O2A-CGA-CBA | 3.26 | 122.13 | 111.91 |
| 25 | 4 | 311 | CLA | O2D-CGD-O1D | -3.26 | 117.47 | 123.84 |
| 33 | 5 | 317 | CHL | C3B-C4B-NB | 3.26 | 113.42 | 109.21 |
| 25 | P | 610 | CLA | CMB-C2B-C3B | 3.26 | 130.77 | 124.68 |
| 28 | B | 844 | BCR | C11-C10-C9 | -3.25 | 122.67 | 127.31 |
| 33 | P | 606 | CHL | CHD-C4C-NC | 3.25 | 129.33 | 124.20 |
| 28 | A | 849 | BCR | C38-C26-C25 | -3.25 | 120.88 | 124.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | 8 | 301 | BCR | C38-C26-C25 | -3.25 | 120.88 | 124.53 |
| 33 | 6 | 607 | CHL | CHD-C4C-NC | 3.25 | 129.32 | 124.20 |
| 33 | 4 | 305 | CHL | C1D-CHD-C4C | -3.25 | 119.05 | 126.06 |
| 25 | 5 | 310 | CLA | O2D-CGD-O1D | -3.25 | 117.48 | 123.84 |
| 34 | 2 | 315 | LUT | C15-C14-C13 | -3.25 | 122.67 | 127.31 |
| 33 | 6 | 607 | CHL | CAC-C3C-C4C | 3.25 | 129.02 | 124.81 |
| 25 | B | 821 | CLA | CMB-C2B-C1B | -3.25 | 123.48 | 128.46 |
| 25 | 6 | 611 | CLA | CMB-C2B-C1B | -3.24 | 123.48 | 128.46 |
| 35 | P | 623 | XAT | C24-C23-C22 | -3.24 | 104.51 | 110.77 |
| 25 | B | 849 | CLA | CMB-C2B-C3B | 3.24 | 130.75 | 124.68 |
| 34 | P | 614 | LUT | C21-C26-C27 | -3.24 | 108.60 | 112.70 |
| 33 | 4 | 304 | CHL | CHD-C4C-NC | 3.24 | 129.31 | 124.20 |
| 28 | B | 844 | BCR | C38-C26-C25 | -3.24 | 120.89 | 124.53 |
| 25 | 5 | 303 | CLA | O2D-CGD-O1D | -3.24 | 117.50 | 123.84 |
| 25 | A | 806 | CLA | CMB-C2B-C3B | 3.24 | 130.74 | 124.68 |
| 25 | 1 | 613 | CLA | CMB-C2B-C1B | -3.24 | 123.49 | 128.46 |
| 25 | 2 | 308 | CLA | CMB-C2B-C1B | -3.23 | 123.49 | 128.46 |
| 34 | 1 | 615 | LUT | C21-C26-C27 | -3.23 | 108.61 | 112.70 |
| 34 | T | 614 | LUT | C10-C11-C12 | -3.23 | 113.12 | 123.22 |
| 34 | 2 | 315 | LUT | C7-C8-C9 | -3.23 | 121.35 | 126.23 |
| 33 | 6 | 617 | CHL | CHD-C4C-NC | 3.23 | 129.29 | 124.20 |
| 32 | 1 | 619 | LMG | C8-O7-C10 | -3.23 | 109.84 | 117.79 |
| 34 | Q | 614 | LUT | C21-C26-C27 | -3.23 | 108.62 | 112.70 |
| 36 | U | 301 | NEX | C4-C3-C2 | -3.23 | 104.54 | 110.77 |
| 33 | 9 | 306 | CHL | C1D-CHD-C4C | -3.23 | 119.09 | 126.06 |
| 34 | R | 616 | LUT | C21-C26-C27 | -3.23 | 108.62 | 112.70 |
| 33 | U | 308 | CHL | CHD-C4C-NC | 3.23 | 129.29 | 124.20 |
| 33 | 4 | 304 | CHL | C1D-CHD-C4C | -3.23 | 119.10 | 126.06 |
| 25 | B | 815 | CLA | CMB-C2B-C3B | 3.23 | 130.71 | 124.68 |
| 33 | S | 310 | CHL | C3B-C4B-NB | 3.22 | 113.38 | 109.21 |
| 33 | 4 | 322 | CHL | C3B-C4B-NB | 3.22 | 113.38 | 109.21 |
| 28 | A | 849 | BCR | C24-C23-C22 | -3.22 | 121.37 | 126.23 |
| 33 | P | 605 | CHL | CHD-C4C-NC | 3.22 | 129.28 | 124.20 |
| 25 | T | 612 | CLA | CMB-C2B-C3B | 3.22 | 130.71 | 124.68 |
| 28 | 4 | 321 | BCR | C1-C6-C7 | 3.22 | 124.89 | 115.78 |
| 28 | 8 | 301 | BCR | C20-C21-C22 | -3.22 | 122.72 | 127.31 |
| 33 | Q | 605 | CHL | CAC-C3C-C4C | 3.22 | 128.99 | 124.81 |
| 34 | U | 315 | LUT | C8-C7-C6 | -3.22 | 118.17 | 127.20 |
| 25 | T | 612 | CLA | O2D-CGD-O1D | -3.22 | 117.55 | 123.84 |
| 28 | L | 208 | BCR | C3-C4-C5 | -3.22 | 108.33 | 114.08 |
| 34 | S | 316 | LUT | C18-C5-C4 | 3.22 | 120.31 | 114.36 |
| 33 | U | 307 | CHL | CHD-C4C-NC | 3.22 | 129.27 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | S | 307 | CHL | CAC-C3C-C4C | 3.21 | 128.98 | 124.81 |
| 25 | 3 | 305 | CLA | O2D-CGD-O1D | -3.21 | 117.55 | 123.84 |
| 25 | A | 808 | CLA | CMB-C2B-C1B | -3.21 | 123.52 | 128.46 |
| 35 | S | 318 | XAT | C15-C35-C34 | -3.21 | 116.89 | 123.47 |
| 35 | Q | 616 | XAT | C7-C8-C9 | -3.21 | 120.54 | 125.53 |
| 25 | B | 823 | CLA | CMB-C2B-C3B | 3.21 | 130.69 | 124.68 |
| 25 | Q | 618 | CLA | CMB-C2B-C3B | 3.21 | 130.69 | 124.68 |
| 25 | a | 303 | CLA | C1B-CHB-C4A | -3.21 | 123.76 | 130.12 |
| 25 | Q | 610 | CLA | CMB-C2B-C3B | 3.21 | 130.69 | 124.68 |
| 34 | R | 616 | LUT | C8-C7-C6 | -3.21 | 118.19 | 127.20 |
| 33 | P | 622 | CHL | C3B-C4B-NB | 3.21 | 113.36 | 109.21 |
| 25 | L | 201 | CLA | CMB-C2B-C1B | -3.21 | 123.53 | 128.46 |
| 34 | 9 | 313 | LUT | C15-C14-C13 | -3.21 | 122.73 | 127.31 |
| 33 | P | 606 | CHL | C3B-C4B-NB | 3.21 | 113.35 | 109.21 |
| 28 | I | 201 | BCR | C20-C19-C18 | -3.20 | 117.41 | 126.42 |
| 28 | F | 803 | BCR | C35-C13-C14 | -3.20 | 118.43 | 122.92 |
| 33 | 4 | 305 | CHL | CAC-C3C-C4C | 3.20 | 128.97 | 124.81 |
| 25 | A | 823 | CLA | CMB-C2B-C3B | 3.20 | 130.67 | 124.68 |
| 34 | R | 616 | LUT | C15-C14-C13 | -3.20 | 122.74 | 127.31 |
| 33 | 7 | 305 | CHL | CHD-C4C-NC | 3.20 | 129.25 | 124.20 |
| 33 | 1 | 606 | CHL | CHD-C4C-NC | 3.20 | 129.25 | 124.20 |
| 33 | P | 622 | CHL | C1-C2-C3 | -3.20 | 120.51 | 126.04 |
| 34 | S | 317 | LUT | C7-C8-C9 | -3.20 | 121.40 | 126.23 |
| 33 | P | 608 | CHL | C1B-CHB-C4A | -3.20 | 123.78 | 130.12 |
| 25 | A | 828 | CLA | C1-C2-C3 | -3.20 | 120.51 | 126.04 |
| 25 | B | 801 | CLA | C1-C2-C3 | -3.20 | 120.51 | 126.04 |
| 34 | R | 615 | LUT | C21-C26-C27 | -3.20 | 108.66 | 112.70 |
| 34 | 5 | 322 | LUT | C35-C34-C33 | -3.20 | 122.75 | 127.31 |
| 25 | a | 311 | CLA | CMB-C2B-C1B | -3.20 | 123.55 | 128.46 |
| 33 | R | 609 | CHL | CAA-C2A-C3A | -3.19 | 104.03 | 112.78 |
| 25 | Q | 603 | CLA | CHB-C4A-NA | 3.19 | 128.93 | 124.51 |
| 25 | B | 831 | CLA | CAA-CBA-CGA | -3.19 | 103.92 | 113.25 |
| 28 | 7 | 316 | BCR | C8-C7-C6 | -3.19 | 118.23 | 127.20 |
| 33 | 4 | 306 | CHL | C3B-C4B-NB | 3.19 | 113.34 | 109.21 |
| 34 | 6 | 619 | LUT | C18-C5-C4 | 3.19 | 120.27 | 114.36 |
| 33 | S | 302 | CHL | C1D-CHD-C4C | -3.19 | 119.17 | 126.06 |
| 25 | A | 829 | CLA | O2D-CGD-O1D | -3.19 | 117.60 | 123.84 |
| 25 | Q | 613 | CLA | CMB-C2B-C3B | 3.19 | 130.65 | 124.68 |
| 25 | 7 | 312 | CLA | CMB-C2B-C3B | 3.19 | 130.65 | 124.68 |
| 33 | T | 604 | CHL | CHD-C4C-NC | 3.19 | 129.23 | 124.20 |
| 33 | P | 608 | CHL | C1D-ND-C4D | 3.19 | 108.60 | 106.33 |
| 34 | U | 314 | LUT | C18-C5-C6 | -3.19 | 120.95 | 124.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 1 | 614 | CLA | CMB-C2B-C1B | -3.19 | 123.56 | 128.46 |
| 25 | B | 826 | CLA | CMB-C2B-C1B | -3.19 | 123.56 | 128.46 |
| 33 | S | 306 | CHL | CHD-C1D-ND | -3.19 | 121.53 | 124.45 |
| 25 | 4 | 310 | CLA | C2A-C1A-CHA | 3.19 | 129.43 | 123.86 |
| 33 | 5 | 307 | CHL | CHD-C4C-NC | 3.19 | 129.22 | 124.20 |
| 28 | O | 204 | BCR | C33-C5-C4 | 3.19 | 119.73 | 113.62 |
| 25 | B | 816 | CLA | CMB-C2B-C3B | 3.18 | 130.64 | 124.68 |
| 34 | U | 315 | LUT | C10-C11-C12 | -3.18 | 113.28 | 123.22 |
| 33 | P | 619 | CHL | C1D-ND-C4D | 3.18 | 108.60 | 106.33 |
| 25 | L | 209 | CLA | CHB-C4A-NA | 3.18 | 128.91 | 124.51 |
| 33 | 6 | 606 | CHL | C1D-CHD-C4C | -3.18 | 119.19 | 126.06 |
| 25 | 6 | 616 | CLA | O2D-CGD-O1D | -3.18 | 117.62 | 123.84 |
| 33 | P | 609 | CHL | CAA-C2A-C3A | -3.18 | 104.07 | 112.78 |
| 33 | Q | 608 | CHL | CAA-C2A-C3A | -3.18 | 104.07 | 112.78 |
| 33 | R | 605 | CHL | CHB-C4A-NA | 3.18 | 128.91 | 124.51 |
| 25 | B | 835 | CLA | CMB-C2B-C1B | -3.18 | 123.58 | 128.46 |
| 33 | T | 606 | CHL | C1B-CHB-C4A | -3.18 | 123.82 | 130.12 |
| 33 | R | 608 | CHL | C1B-CHB-C4A | -3.18 | 123.82 | 130.12 |
| 33 | U | 305 | CHL | CHD-C1D-ND | -3.18 | 121.53 | 124.45 |
| 33 | 7 | 305 | CHL | C3B-C4B-NB | 3.18 | 113.32 | 109.21 |
| 33 | 4 | 314 | CHL | CHD-C4C-NC | 3.18 | 129.21 | 124.20 |
| 34 | a | 314 | LUT | C21-C26-C27 | -3.18 | 108.69 | 112.70 |
| 25 | 6 | 604 | CLA | CMB-C2B-C1B | -3.18 | 123.58 | 128.46 |
| 28 | O | 205 | BCR | C28-C27-C26 | -3.18 | 108.41 | 114.08 |
| 33 | 9 | 306 | CHL | CAC-C3C-C4C | 3.18 | 128.93 | 124.81 |
| 25 | A | 811 | CLA | O2D-CGD-O1D | -3.17 | 117.63 | 123.84 |
| 36 | P | 617 | NEX | C35-C15-C14 | -3.17 | 116.97 | 123.47 |
| 33 | R | 608 | CHL | CHD-C4C-NC | 3.17 | 129.20 | 124.20 |
| 33 | 4 | 322 | CHL | CHD-C4C-NC | 3.17 | 129.20 | 124.20 |
| 33 | 5 | 317 | CHL | C3C-C4C-NC | 3.17 | 114.13 | 110.57 |
| 25 | A | 837 | CLA | O2D-CGD-O1D | -3.17 | 117.64 | 123.84 |
| 33 | Q | 605 | CHL | CHD-C4C-NC | 3.17 | 129.20 | 124.20 |
| 33 | Q | 607 | CHL | C1B-CHB-C4A | -3.17 | 123.84 | 130.12 |
| 33 | T | 606 | CHL | C1D-ND-C4D | 3.17 | 108.59 | 106.33 |
| 33 | 5 | 307 | CHL | C3B-C4B-NB | 3.17 | 113.31 | 109.21 |
| 25 | R | 614 | CLA | CMB-C2B-C3B | 3.17 | 130.61 | 124.68 |
| 32 | J | 107 | LMG | O6-C1-C2 | 3.17 | 117.06 | 110.35 |
| 33 | Q | 607 | CHL | CHD-C4C-NC | 3.17 | 129.19 | 124.20 |
| 34 | a | 315 | LUT | C11-C10-C9 | -3.17 | 122.79 | 127.31 |
| 25 | 9 | 310 | CLA | CMB-C2B-C3B | 3.17 | 130.60 | 124.68 |
| 25 | 1 | 613 | CLA | O2D-CGD-O1D | -3.17 | 117.65 | 123.84 |
| 28 | B | 843 | BCR | C24-C23-C22 | -3.17 | 121.45 | 126.23 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | P | 608 | CHL | CHD-C4C-NC | 3.17 | 129.19 | 124.20 |
| 25 | A | 818 | CLA | O2D-CGD-O1D | -3.16 | 117.65 | 123.84 |
| 25 | A | 853 | CLA | C1-C2-C3 | -3.16 | 120.57 | 126.04 |
| 25 | B | 818 | CLA | O2D-CGD-O1D | -3.16 | 117.66 | 123.84 |
| 36 | R | 617 | NEX | C35-C15-C14 | -3.16 | 117.00 | 123.47 |
| 25 | K | 204 | CLA | C2A-C1A-CHA | 3.16 | 129.39 | 123.86 |
| 33 | 6 | 607 | CHL | CHC-C1C-NC | 3.16 | 129.00 | 124.20 |
| 33 | 9 | 306 | CHL | C3B-C4B-NB | 3.16 | 113.30 | 109.21 |
| 25 | T | 609 | CLA | CMB-C2B-C3B | 3.16 | 130.59 | 124.68 |
| 33 | 8 | 307 | CHL | CHD-C4C-NC | 3.16 | 129.18 | 124.20 |
| 28 | G | 203 | BCR | C38-C26-C25 | -3.16 | 120.98 | 124.53 |
| 33 | P | 607 | CHL | C1D-ND-C4D | 3.16 | 108.58 | 106.33 |
| 25 | Q | 610 | CLA | C2A-C1A-CHA | 3.16 | 127.61 | 122.71 |
| 28 | 4 | 317 | BCR | C3-C4-C5 | -3.16 | 108.44 | 114.08 |
| 33 | S | 310 | CHL | C1-C2-C3 | -3.16 | 120.58 | 126.04 |
| 34 | 5 | 322 | LUT | C16-C1-C6 | -3.16 | 105.18 | 110.30 |
| 25 | 3 | 312 | CLA | O2D-CGD-O1D | -3.16 | 117.67 | 123.84 |
| 28 | O | 205 | BCR | C15-C16-C17 | -3.16 | 117.01 | 123.47 |
| 25 | O | 201 | CLA | CMB-C2B-C1B | -3.16 | 123.61 | 128.46 |
| 25 | O | 203 | CLA | CAA-C2A-C3A | -3.16 | 108.74 | 116.10 |
| 25 | 5 | 309 | CLA | CMB-C2B-C1B | -3.15 | 123.61 | 128.46 |
| 34 | T | 614 | LUT | C21-C26-C27 | -3.15 | 108.71 | 112.70 |
| 33 | 5 | 317 | CHL | CAC-C3C-C4C | 3.15 | 128.90 | 124.81 |
| 33 | P | 609 | CHL | C1-C2-C3 | 3.15 | 131.50 | 126.04 |
| 28 | B | 851 | BCR | C15-C14-C13 | -3.15 | 122.81 | 127.31 |
| 28 | A | 849 | BCR | C8-C9-C10 | 3.15 | 123.78 | 118.94 |
| 25 | 6 | 615 | CLA | O2D-CGD-O1D | -3.15 | 117.68 | 123.84 |
| 33 | R | 608 | CHL | C1D-ND-C4D | 3.15 | 108.57 | 106.33 |
| 25 | H | 205 | CLA | O2D-CGD-O1D | -3.15 | 117.68 | 123.84 |
| 25 | A | 819 | CLA | O2D-CGD-O1D | -3.15 | 117.68 | 123.84 |
| 25 | B | 814 | CLA | O2D-CGD-O1D | -3.15 | 117.68 | 123.84 |
| 28 | A | 846 | BCR | C38-C26-C25 | -3.15 | 121.00 | 124.53 |
| 33 | 7 | 305 | CHL | C1D-CHD-C4C | -3.14 | 119.27 | 126.06 |
| 28 | B | 844 | BCR | C20-C21-C22 | -3.14 | 122.82 | 127.31 |
| 36 | U | 316 | NEX | C17-C1-C6 | -3.14 | 107.66 | 110.47 |
| 33 | U | 305 | CHL | CHD-C4C-NC | 3.14 | 129.15 | 124.20 |
| 34 | 5 | 318 | LUT | C18-C5-C6 | -3.14 | 121.00 | 124.53 |
| 34 | a | 314 | LUT | C30-C31-C32 | -3.14 | 113.42 | 123.22 |
| 25 | A | 804 | CLA | CMB-C2B-C3B | 3.14 | 130.55 | 124.68 |
| 25 | B | 822 | CLA | CMB-C2B-C1B | -3.14 | 123.64 | 128.46 |
| 33 | U | 308 | CHL | C1B-CHB-C4A | -3.14 | 123.90 | 130.12 |
| 36 | U | 316 | NEX | C35-C15-C14 | -3.14 | 117.04 | 123.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 27 | A | 844 | LHG | C5-O7-C7 | -3.14 | 110.06 | 117.79 |
| 33 | Q | 607 | CHL | C1D-ND-C4D | 3.14 | 108.56 | 106.33 |
| 25 | B | 834 | CLA | CMB-C2B-C1B | -3.14 | 123.64 | 128.46 |
| 33 | U | 306 | CHL | C1D-CHD-C4C | -3.14 | 119.29 | 126.06 |
| 33 | S | 302 | CHL | C1-C2-C3 | -3.13 | 120.62 | 126.04 |
| 25 | B | 807 | CLA | O2D-CGD-CBD | 3.13 | 116.83 | 111.27 |
| 34 | P | 615 | LUT | C21-C26-C27 | -3.13 | 108.74 | 112.70 |
| 25 | A | 817 | CLA | O2D-CGD-O1D | -3.13 | 117.71 | 123.84 |
| 28 | B | 843 | BCR | C11-C10-C9 | -3.13 | 122.84 | 127.31 |
| 25 | 1 | 609 | CLA | C3C-C4C-NC | -3.13 | 107.06 | 110.57 |
| 33 | R | 601 | CHL | CAC-C3C-C4C | 3.13 | 128.87 | 124.81 |
| 33 | S | 310 | CHL | CHD-C4C-NC | 3.13 | 129.14 | 124.20 |
| 25 | a | 303 | CLA | C5-C3-C2 | -3.13 | 114.78 | 121.12 |
| 25 | L | 205 | CLA | CMB-C2B-C3B | 3.13 | 130.54 | 124.68 |
| 33 | R | 607 | CHL | C1D-ND-C4D | 3.13 | 108.56 | 106.33 |
| 28 | 3 | 318 | BCR | C28-C27-C26 | -3.13 | 108.49 | 114.08 |
| 36 | U | 301 | NEX | C31-C30-C29 | -3.13 | 122.84 | 127.31 |
| 25 | R | 611 | CLA | CMB-C2B-C1B | -3.13 | 123.65 | 128.46 |
| 25 | S | 304 | CLA | CMB-C2B-C1B | -3.13 | 123.65 | 128.46 |
| 25 | 2 | 306 | CLA | CMB-C2B-C1B | -3.13 | 123.65 | 128.46 |
| 25 | 4 | 312 | CLA | CMB-C2B-C1B | -3.13 | 123.66 | 128.46 |
| 25 | A | 820 | CLA | O2D-CGD-O1D | -3.13 | 117.72 | 123.84 |
| 33 | P | 601 | CHL | CAC-C3C-C4C | 3.13 | 128.87 | 124.81 |
| 33 | R | 605 | CHL | C3B-C4B-NB | 3.13 | 113.25 | 109.21 |
| 27 | T | 617 | LHG | O7-C7-C8 | 3.13 | 118.24 | 111.50 |
| 34 | T | 614 | LUT | C8-C7-C6 | -3.13 | 118.42 | 127.20 |
| 25 | 2 | 313 | CLA | O2D-CGD-O1D | -3.13 | 117.73 | 123.84 |
| 34 | a | 316 | LUT | C7-C8-C9 | -3.12 | 121.51 | 126.23 |
| 25 | 2 | 312 | CLA | CMB-C2B-C1B | -3.12 | 123.66 | 128.46 |
| 28 | A | 845 | BCR | C7-C8-C9 | -3.12 | 121.52 | 126.23 |
| 25 | 5 | 324 | CLA | CMB-C2B-C1B | -3.12 | 123.66 | 128.46 |
| 33 | 5 | 308 | CHL | C3B-C4B-NB | 3.12 | 113.25 | 109.21 |
| 25 | 5 | 303 | CLA | CMB-C2B-C3B | 3.12 | 130.52 | 124.68 |
| 25 | A | 824 | CLA | CMB-C2B-C3B | 3.12 | 130.52 | 124.68 |
| 33 | S | 308 | CHL | C1D-ND-C4D | 3.12 | 108.55 | 106.33 |
| 33 | U | 307 | CHL | CAC-C3C-C4C | 3.12 | 128.86 | 124.81 |
| 25 | a | 303 | CLA | C2D-C1D-ND | -3.12 | 107.81 | 110.10 |
| 33 | 4 | 305 | CHL | C1-C2-C3 | -3.12 | 121.71 | 126.75 |
| 25 | 3 | 320 | CLA | CMB-C2B-C1B | -3.12 | 123.67 | 128.46 |
| 34 | Q | 615 | LUT | C21-C26-C27 | -3.12 | 108.76 | 112.70 |
| 33 | Q | 608 | CHL | C1-C2-C3 | 3.12 | 131.44 | 126.04 |
| 34 | 9 | 312 | LUT | C15-C14-C13 | -3.12 | 122.86 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 9 | 304 | CLA | CMB-C2B-C1B | -3.12 | 123.67 | 128.46 |
| 33 | P | 619 | CHL | CHD-C4C-NC | 3.12 | 129.12 | 124.20 |
| 28 | 6 | 621 | BCR | C8-C9-C10 | 3.12 | 123.72 | 118.94 |
| 25 | R | 612 | CLA | O2A-CGA-CBA | 3.12 | 121.69 | 111.91 |
| 25 | A | 809 | CLA | O2D-CGD-O1D | -3.12 | 117.74 | 123.84 |
| 33 | R | 606 | CHL | O2A-CGA-CBA | 3.12 | 121.69 | 111.91 |
| 28 | 4 | 317 | BCR | C33-C5-C6 | -3.12 | 121.03 | 124.53 |
| 28 | 4 | 321 | BCR | C34-C9-C10 | -3.12 | 118.56 | 122.92 |
| 25 | B | 829 | CLA | O2D-CGD-O1D | -3.12 | 117.75 | 123.84 |
| 28 | 8 | 318 | BCR | C15-C16-C17 | -3.12 | 117.09 | 123.47 |
| 25 | 2 | 312 | CLA | O2D-CGD-O1D | -3.11 | 117.75 | 123.84 |
| 33 | 3 | 306 | CHL | C1D-CHD-C4C | -3.11 | 119.34 | 126.06 |
| 33 | a | 305 | CHL | CHD-C4C-NC | 3.11 | 129.11 | 124.20 |
| 33 | U | 305 | CHL | CHB-C4A-NA | 3.11 | 128.81 | 124.51 |
| 25 | 5 | 313 | CLA | C2D-C1D-ND | -3.11 | 107.81 | 110.10 |
| 33 | S | 309 | CHL | CAC-C3C-C4C | 3.11 | 128.85 | 124.81 |
| 33 | R | 609 | CHL | C1-C2-C3 | 3.11 | 131.42 | 126.04 |
| 25 | A | 826 | CLA | CMB-C2B-C1B | -3.11 | 123.69 | 128.46 |
| 25 | 4 | 307 | CLA | CMB-C2B-C1B | -3.11 | 123.69 | 128.46 |
| 33 | Q | 601 | CHL | CAC-C3C-C4C | 3.11 | 128.84 | 124.81 |
| 33 | P | 607 | CHL | CHD-C4C-NC | 3.11 | 129.10 | 124.20 |
| 34 | 3 | 316 | LUT | C11-C10-C9 | -3.11 | 122.88 | 127.31 |
| 27 | 6 | 618 | LHG | C5-O7-C7 | -3.11 | 110.14 | 117.79 |
| 25 | 3 | 301 | CLA | CMB-C2B-C1B | -3.11 | 123.69 | 128.46 |
| 25 | 1 | 609 | CLA | O2D-CGD-O1D | -3.11 | 117.77 | 123.84 |
| 26 | A | 841 | PQN | C14-C13-C15 | 3.10 | 120.49 | 115.27 |
| 25 | B | 805 | CLA | CMB-C2B-C3B | 3.10 | 130.49 | 124.68 |
| 25 | P | 604 | CLA | CMB-C2B-C1B | -3.10 | 123.69 | 128.46 |
| 33 | S | 321 | CHL | C1D-CHD-C4C | -3.10 | 119.36 | 126.06 |
| 33 | S | 306 | CHL | C1D-CHD-C4C | -3.10 | 119.37 | 126.06 |
| 25 | B | 817 | CLA | CMB-C2B-C3B | 3.10 | 130.48 | 124.68 |
| 28 | L | 204 | BCR | C20-C21-C22 | -3.10 | 122.88 | 127.31 |
| 25 | S | 320 | CLA | CHB-C4A-NA | 3.10 | 128.80 | 124.51 |
| 33 | 4 | 305 | CHL | CHD-C4C-NC | 3.10 | 129.09 | 124.20 |
| 35 | T | 615 | XAT | C7-C8-C9 | -3.10 | 120.72 | 125.53 |
| 28 | L | 204 | BCR | C38-C26-C27 | 3.10 | 119.57 | 113.62 |
| 25 | A | 839 | CLA | C1-C2-C3 | -3.10 | 120.68 | 126.04 |
| 28 | 8 | 318 | BCR | C21-C20-C19 | -3.10 | 113.55 | 123.22 |
| 28 | 4 | 321 | BCR | C27-C26-C25 | -3.10 | 118.23 | 122.73 |
| 28 | F | 801 | BCR | C16-C15-C14 | -3.10 | 117.13 | 123.47 |
| 25 | A | 803 | CLA | C1B-CHB-C4A | -3.10 | 123.98 | 130.12 |
| 25 | P | 612 | CLA | O2A-CGA-CBA | 3.10 | 121.62 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | 2 | 315 | LUT | C30-C31-C32 | -3.10 | 113.56 | 123.22 |
| 25 | U | 303 | CLA | CHB-C4A-NA | 3.10 | 128.79 | 124.51 |
| 25 | S | 314 | CLA | CMB-C2B-C1B | -3.10 | 123.71 | 128.46 |
| 34 | a | 314 | LUT | C35-C15-C14 | -3.10 | 117.13 | 123.47 |
| 33 | R | 601 | CHL | C1D-CHD-C4C | -3.10 | 119.38 | 126.06 |
| 28 | B | 840 | BCR | C38-C26-C25 | -3.10 | 121.05 | 124.53 |
| 25 | B | 811 | CLA | O2D-CGD-O1D | -3.09 | 117.79 | 123.84 |
| 33 | T | 605 | CHL | C1D-CHD-C4C | -3.09 | 119.38 | 126.06 |
| 33 | S | 302 | CHL | OBD-CAD-C3D | -3.09 | 121.08 | 128.52 |
| 25 | 9 | 308 | CLA | C1-C2-C3 | -3.09 | 121.75 | 126.75 |
| 25 | 5 | 324 | CLA | O2D-CGD-O1D | -3.09 | 117.79 | 123.84 |
| 34 | 1 | 616 | LUT | C16-C1-C6 | -3.09 | 105.28 | 110.30 |
| 25 | B | 832 | CLA | CMB-C2B-C1B | -3.09 | 123.71 | 128.46 |
| 28 | L | 203 | BCR | C33-C5-C4 | 3.09 | 119.55 | 113.62 |
| 34 | 5 | 318 | LUT | C30-C31-C32 | -3.09 | 113.58 | 123.22 |
| 25 | Q | 612 | CLA | CMB-C2B-C3B | 3.09 | 130.46 | 124.68 |
| 25 | R | 611 | CLA | CMB-C2B-C3B | 3.09 | 130.46 | 124.68 |
| 25 | 3 | 313 | CLA | CMB-C2B-C3B | 3.09 | 130.46 | 124.68 |
| 33 | P | 601 | CHL | C1D-CHD-C4C | -3.09 | 119.40 | 126.06 |
| 25 | a | 301 | CLA | CMB-C2B-C1B | -3.09 | 123.72 | 128.46 |
| 33 | T | 601 | CHL | C1D-CHD-C4C | -3.09 | 119.40 | 126.06 |
| 25 | A | 807 | CLA | CMB-C2B-C3B | 3.09 | 130.45 | 124.68 |
| 33 | R | 606 | CHL | CAC-C3C-C4C | 3.08 | 128.81 | 124.81 |
| 33 | T | 605 | CHL | CAC-C3C-C4C | 3.08 | 128.81 | 124.81 |
| 33 | R | 607 | CHL | CHD-C4C-NC | 3.08 | 129.06 | 124.20 |
| 25 | B | 804 | CLA | CMB-C2B-C1B | -3.08 | 123.73 | 128.46 |
| 34 | 5 | 318 | LUT | C35-C15-C14 | -3.08 | 117.16 | 123.47 |
| 33 | T | 607 | CHL | C1D-CHD-C4C | -3.08 | 119.41 | 126.06 |
| 25 | R | 610 | CLA | C1-C2-C3 | -3.08 | 120.71 | 126.04 |
| 25 | 5 | 306 | CLA | O2D-CGD-O1D | -3.08 | 117.81 | 123.84 |
| 25 | B | 803 | CLA | CHB-C4A-NA | 3.08 | 128.77 | 124.51 |
| 33 | 5 | 317 | CHL | C1D-CHD-C4C | -3.08 | 119.41 | 126.06 |
| 33 | R | 606 | CHL | CHD-C4C-NC | 3.08 | 129.06 | 124.20 |
| 25 | B | 808 | CLA | O2D-CGD-O1D | -3.08 | 117.82 | 123.84 |
| 34 | P | 615 | LUT | C19-C9-C8 | 3.08 | 122.93 | 118.08 |
| 25 | S | 303 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 33 | U | 307 | CHL | C1D-ND-C4D | 3.08 | 108.52 | 106.33 |
| 25 | A | 810 | CLA | O2D-CGD-O1D | -3.08 | 117.83 | 123.84 |
| 33 | S | 302 | CHL | C4-C3-C5 | 3.08 | 120.44 | 115.27 |
| 33 | S | 321 | CHL | C1D-ND-C4D | 3.07 | 108.52 | 106.33 |
| 28 | L | 203 | BCR | C24-C23-C22 | -3.07 | 121.59 | 126.23 |
| 33 | P | 605 | CHL | C3C-C4C-NC | 3.07 | 114.01 | 110.57 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 2 | 314 | CLA | CMB-C2B-C1B | -3.07 | 123.75 | 128.46 |
| 33 | S | 302 | CHL | C1B-CHB-C4A | -3.07 | 124.04 | 130.12 |
| 28 | O | 204 | BCR | C33-C5-C6 | -3.07 | 121.08 | 124.53 |
| 33 | Q | 601 | CHL | C1D-CHD-C4C | -3.07 | 119.44 | 126.06 |
| 28 | B | 841 | BCR | C33-C5-C4 | 3.07 | 119.50 | 113.62 |
| 25 | 3 | 320 | CLA | CHB-C4A-NA | 3.07 | 128.75 | 124.51 |
| 32 | 6 | 602 | LMG | O8-C28-C29 | 3.06 | 121.52 | 111.91 |
| 25 | A | 851 | CLA | O2D-CGD-O1D | -3.06 | 117.85 | 123.84 |
| 25 | U | 303 | CLA | CMB-C2B-C3B | 3.06 | 130.41 | 124.68 |
| 34 | 6 | 619 | LUT | C35-C15-C14 | -3.06 | 117.20 | 123.47 |
| 25 | 3 | 303 | CLA | CMB-C2B-C3B | 3.06 | 130.41 | 124.68 |
| 28 | A | 847 | BCR | C33-C5-C6 | -3.06 | 121.09 | 124.53 |
| 25 | U | 311 | CLA | C1B-CHB-C4A | -3.06 | 124.06 | 130.12 |
| 28 | B | 841 | BCR | C30-C25-C26 | -3.06 | 118.31 | 122.61 |
| 25 | L | 209 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 25 | 2 | 312 | CLA | C1-C2-C3 | -3.06 | 120.75 | 126.04 |
| 25 | B | 831 | CLA | CMB-C2B-C1B | -3.06 | 123.76 | 128.46 |
| 28 | 4 | 317 | BCR | C23-C24-C25 | -3.06 | 118.61 | 127.20 |
| 25 | B | 824 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 33 | T | 605 | CHL | O2A-CGA-CBA | 3.06 | 121.50 | 111.91 |
| 25 | T | 609 | CLA | CHB-C4A-NA | 3.06 | 128.74 | 124.51 |
| 33 | U | 305 | CHL | CAC-C3C-C4C | 3.06 | 128.78 | 124.81 |
| 25 | 9 | 303 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 25 | O | 202 | CLA | C2D-C1D-ND | -3.05 | 107.85 | 110.10 |
| 34 | 7 | 314 | LUT | C15-C14-C13 | -3.05 | 122.95 | 127.31 |
| 34 | 9 | 313 | LUT | C10-C11-C12 | -3.05 | 113.69 | 123.22 |
| 25 | a | 311 | CLA | CHB-C4A-NA | 3.05 | 128.73 | 124.51 |
| 25 | Q | 604 | CLA | CMB-C2B-C1B | -3.05 | 123.78 | 128.46 |
| 25 | 3 | 307 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 25 | 4 | 303 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 25 | 9 | 303 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 34 | 3 | 316 | LUT | C7-C8-C9 | -3.05 | 121.63 | 126.23 |
| 34 | Q | 615 | LUT | C19-C9-C8 | 3.05 | 122.88 | 118.08 |
| 25 | H | 201 | CLA | CMB-C2B-C1B | -3.04 | 123.79 | 128.46 |
| 28 | A | 849 | BCR | C16-C17-C18 | -3.04 | 122.97 | 127.31 |
| 25 | B | 806 | CLA | CMB-C2B-C1B | -3.04 | 123.79 | 128.46 |
| 28 | 4 | 317 | BCR | C15-C16-C17 | -3.04 | 117.25 | 123.47 |
| 28 | K | 206 | BCR | C19-C18-C17 | 3.04 | 123.61 | 118.94 |
| 25 | A | 823 | CLA | O2D-CGD-O1D | -3.04 | 117.89 | 123.84 |
| 34 | R | 616 | LUT | C10-C11-C12 | -3.04 | 113.73 | 123.22 |
| 28 | B | 845 | BCR | C29-C30-C25 | 3.04 | 115.16 | 110.48 |
| 25 | 6 | 623 | CLA | CMB-C2B-C3B | 3.04 | 130.37 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 838 | CLA | CMB-C2B-C3B | 3.04 | 130.36 | 124.68 |
| 28 | 4 | 317 | BCR | C38-C26-C27 | 3.04 | 119.45 | 113.62 |
| 25 | a | 308 | CLA | CMB-C2B-C1B | -3.04 | 123.80 | 128.46 |
| 25 | A | 806 | CLA | O2D-CGD-O1D | -3.04 | 117.90 | 123.84 |
| 28 | 3 | 318 | BCR | C3-C4-C5 | -3.04 | 108.66 | 114.08 |
| 34 | 2 | 315 | LUT | C35-C15-C14 | -3.04 | 117.25 | 123.47 |
| 33 | 1 | 601 | CHL | CAC-C3C-C4C | 3.04 | 128.75 | 124.81 |
| 33 | S | 307 | CHL | CHD-C4C-NC | 3.04 | 128.99 | 124.20 |
| 25 | B | 809 | CLA | CMB-C2B-C3B | 3.04 | 130.36 | 124.68 |
| 25 | 2 | 303 | CLA | CMB-C2B-C1B | -3.04 | 123.80 | 128.46 |
| 34 | P | 615 | LUT | C35-C34-C33 | -3.04 | 122.98 | 127.31 |
| 33 | P | 605 | CHL | CAC-C3C-C4C | 3.03 | 128.75 | 124.81 |
| 25 | K | 205 | CLA | O2D-CGD-O1D | -3.03 | 117.91 | 123.84 |
| 25 | 3 | 303 | CLA | O2D-CGD-O1D | -3.03 | 117.91 | 123.84 |
| 33 | 7 | 305 | CHL | C3C-C4C-NC | 3.03 | 113.97 | 110.57 |
| 33 | 6 | 608 | CHL | C1-C2-C3 | -3.03 | 121.84 | 126.75 |
| 33 | Q | 606 | CHL | C1D-CHD-C4C | -3.03 | 119.52 | 126.06 |
| 27 | 7 | 317 | LHG | C5-O7-C7 | -3.03 | 110.33 | 117.79 |
| 28 | 5 | 320 | BCR | C2-C1-C6 | 3.03 | 115.15 | 110.48 |
| 33 | 4 | 314 | CHL | C1B-CHB-C4A | -3.03 | 124.11 | 130.12 |
| 33 | S | 307 | CHL | O1D-CGD-CBD | -3.03 | 118.28 | 124.48 |
| 25 | 1 | 605 | CLA | CMB-C2B-C1B | -3.03 | 123.81 | 128.46 |
| 32 | J | 104 | LMG | C8-O7-C10 | -3.03 | 110.33 | 117.79 |
| 28 | 5 | 320 | BCR | C31-C1-C6 | -3.03 | 105.38 | 110.30 |
| 28 | 6 | 621 | BCR | C23-C24-C25 | -3.03 | 118.69 | 127.20 |
| 25 | 8 | 308 | CLA | O2D-CGD-O1D | -3.03 | 117.92 | 123.84 |
| 34 | P | 615 | LUT | C8-C7-C6 | -3.03 | 118.69 | 127.20 |
| 33 | U | 309 | CHL | C1D-CHD-C4C | -3.03 | 119.52 | 126.06 |
| 25 | Q | 613 | CLA | O2D-CGD-O1D | -3.03 | 117.92 | 123.84 |
| 25 | Q | 611 | CLA | C1B-CHB-C4A | -3.03 | 124.12 | 130.12 |
| 25 | 1 | 604 | CLA | CMB-C2B-C3B | 3.03 | 130.34 | 124.68 |
| 25 | A | 835 | CLA | CMB-C2B-C3B | 3.02 | 130.34 | 124.68 |
| 33 | R | 605 | CHL | CHD-C4C-NC | 3.02 | 128.97 | 124.20 |
| 25 | a | 306 | CLA | C1-C2-C3 | -3.02 | 120.82 | 126.04 |
| 25 | R | 603 | CLA | CMB-C2B-C3B | 3.02 | 130.33 | 124.68 |
| 25 | 7 | 303 | CLA | CMB-C2B-C3B | 3.02 | 130.33 | 124.68 |
| 28 | 3 | 318 | BCR | C34-C9-C10 | -3.02 | 118.69 | 122.92 |
| 25 | T | 611 | CLA | CMB-C2B-C3B | 3.02 | 130.33 | 124.68 |
| 28 | 8 | 301 | BCR | C16-C17-C18 | -3.02 | 123.00 | 127.31 |
| 32 | 7 | 319 | LMG | O8-C28-C29 | 3.02 | 121.37 | 111.91 |
| 33 | 8 | 307 | CHL | C3B-C4B-NB | 3.02 | 113.11 | 109.21 |
| 33 | T | 604 | CHL | C3C-C4C-NC | 3.02 | 113.95 | 110.57 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 805 | CLA | CHB-C4A-NA | 3.02 | 128.68 | 124.51 |
| 33 | 4 | 322 | CHL | CMD-C2D-C3D | -3.02 | 120.68 | 127.61 |
| 25 | B | 803 | CLA | O2D-CGD-O1D | -3.02 | 117.94 | 123.84 |
| 25 | 1 | 612 | CLA | C3A-C2A-C1A | 3.02 | 105.86 | 101.34 |
| 33 | 4 | 322 | CHL | CMB-C2B-C3B | 3.01 | 130.32 | 124.68 |
| 33 | 9 | 307 | CHL | CHD-C4C-NC | 3.01 | 128.95 | 124.20 |
| 25 | B | 812 | CLA | CMB-C2B-C1B | -3.01 | 123.83 | 128.46 |
| 25 | B | 813 | CLA | CMB-C2B-C1B | -3.01 | 123.83 | 128.46 |
| 28 | F | 801 | BCR | C28-C27-C26 | -3.01 | 108.69 | 114.08 |
| 25 | K | 203 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 25 | 2 | 305 | CLA | CMB-C2B-C1B | -3.01 | 123.83 | 128.46 |
| 25 | B | 816 | CLA | C1B-CHB-C4A | -3.01 | 124.15 | 130.12 |
| 34 | 2 | 316 | LUT | C18-C5-C4 | 3.01 | 119.94 | 114.36 |
| 25 | 8 | 311 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 25 | 9 | 311 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 25 | U | 313 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 33 | S | 307 | CHL | C1D-CHD-C4C | -3.01 | 119.56 | 126.06 |
| 25 | 3 | 313 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 25 | B | 829 | CLA | CMB-C2B-C3B | 3.01 | 130.31 | 124.68 |
| 28 | O | 205 | BCR | C8-C9-C10 | 3.01 | 123.56 | 118.94 |
| 25 | 8 | 309 | CLA | CMB-C2B-C3B | 3.01 | 130.31 | 124.68 |
| 25 | B | 823 | CLA | O2D-CGD-O1D | -3.01 | 117.96 | 123.84 |
| 28 | B | 851 | BCR | C8-C7-C6 | -3.01 | 118.76 | 127.20 |
| 33 | 9 | 306 | CHL | C1D-ND-C4D | 3.01 | 108.47 | 106.33 |
| 33 | T | 607 | CHL | C1-C2-C3 | -3.01 | 120.84 | 126.04 |
| 33 | P | 606 | CHL | C1D-CHD-C4C | -3.01 | 119.57 | 126.06 |
| 28 | B | 844 | BCR | C33-C5-C4 | 3.01 | 119.39 | 113.62 |
| 25 | A | 803 | CLA | CMB-C2B-C1B | -3.01 | 123.84 | 128.46 |
| 25 | H | 203 | CLA | CMB-C2B-C3B | 3.00 | 130.30 | 124.68 |
| 25 | B | 809 | CLA | O2D-CGD-O1D | -3.00 | 117.96 | 123.84 |
| 25 | B | 819 | CLA | O2D-CGD-O1D | -3.00 | 117.96 | 123.84 |
| 25 | 8 | 313 | CLA | O2D-CGD-O1D | -3.00 | 117.96 | 123.84 |
| 33 | S | 321 | CHL | CAC-C3C-C4C | 3.00 | 128.71 | 124.81 |
| 36 | R | 617 | NEX | C11-C12-C13 | -3.00 | 117.98 | 126.42 |
| 25 | 9 | 311 | CLA | CMB-C2B-C1B | -3.00 | 123.85 | 128.46 |
| 25 | 5 | 316 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 25 | U | 313 | CLA | C1B-CHB-C4A | -3.00 | 124.17 | 130.12 |
| 33 | U | 307 | CHL | C1D-CHD-C4C | -3.00 | 119.58 | 126.06 |
| 28 | 6 | 621 | BCR | C11-C12-C13 | -3.00 | 117.98 | 126.42 |
| 34 | R | 615 | LUT | C18-C5-C4 | 3.00 | 119.92 | 114.36 |
| 25 | 4 | 309 | CLA | CMB-C2B-C3B | 3.00 | 130.29 | 124.68 |
| 33 | Q | 606 | CHL | CHD-C4C-NC | 3.00 | 128.93 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 9 | 301 | CLA | CMB-C2B-C3B | 3.00 | 130.56 | 124.69 |
| 34 | Q | 615 | LUT | C18-C5-C6 | -3.00 | 121.16 | 124.53 |
| 36 | T | 616 | NEX | C24-C23-C22 | -3.00 | 104.98 | 110.77 |
| 28 | 4 | 317 | BCR | C2-C1-C6 | 3.00 | 115.10 | 110.48 |
| 34 | 7 | 315 | LUT | C15-C14-C13 | -3.00 | 123.03 | 127.31 |
| 33 | 4 | 314 | CHL | CHC-C1C-NC | 3.00 | 128.75 | 124.20 |
| 33 | 1 | 601 | CHL | O2A-CGA-CBA | 3.00 | 121.31 | 111.91 |
| 25 | S | 314 | CLA | O2D-CGD-O1D | -3.00 | 117.98 | 123.84 |
| 28 | B | 845 | BCR | C16-C15-C14 | -3.00 | 117.34 | 123.47 |
| 25 | K | 204 | CLA | CMB-C2B-C3B | 2.99 | 130.28 | 124.68 |
| 25 | 1 | 614 | CLA | O2D-CGD-O1D | -2.99 | 117.98 | 123.84 |
| 25 | 5 | 303 | CLA | C1B-CHB-C4A | -2.99 | 124.19 | 130.12 |
| 36 | U | 301 | NEX | C35-C15-C14 | -2.99 | 117.34 | 123.47 |
| 25 | 2 | 304 | CLA | CMB-C2B-C1B | -2.99 | 123.86 | 128.46 |
| 33 | T | 604 | CHL | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 33 | P | 606 | CHL | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 25 | 2 | 306 | CLA | CAA-C2A-C3A | -2.99 | 109.12 | 116.10 |
| 25 | R | 604 | CLA | O2D-CGD-O1D | -2.99 | 117.99 | 123.84 |
| 34 | 8 | 317 | LUT | C35-C34-C33 | -2.99 | 123.04 | 127.31 |
| 25 | 7 | 307 | CLA | CMB-C2B-C3B | 2.99 | 130.27 | 124.68 |
| 25 | 5 | 302 | CLA | CMB-C2B-C1B | -2.99 | 123.87 | 128.46 |
| 25 | S | 313 | CLA | CMB-C2B-C3B | 2.99 | 130.27 | 124.68 |
| 25 | 6 | 620 | CLA | CMB-C2B-C3B | 2.99 | 130.27 | 124.68 |
| 35 | P | 623 | XAT | C8-C9-C10 | -2.99 | 118.16 | 124.81 |
| 33 | T | 601 | CHL | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 32 | 4 | 320 | LMG | O8-C28-C29 | 2.99 | 121.28 | 111.91 |
| 25 | L | 205 | CLA | O2D-CGD-CBD | 2.99 | 116.58 | 111.27 |
| 34 | 8 | 316 | LUT | C21-C26-C27 | -2.99 | 108.93 | 112.70 |
| 25 | 6 | 605 | CLA | CMB-C2B-C3B | 2.99 | 130.26 | 124.68 |
| 33 | 5 | 308 | CHL | C1D-CHD-C4C | -2.99 | 119.62 | 126.06 |
| 33 | 4 | 322 | CHL | O2A-CGA-CBA | 2.99 | 121.28 | 111.91 |
| 28 | A | 845 | BCR | C20-C21-C22 | -2.98 | 123.05 | 127.31 |
| 25 | L | 206 | CLA | O2D-CGD-O1D | -2.98 | 118.00 | 123.84 |
| 25 | 6 | 613 | CLA | CMB-C2B-C1B | -2.98 | 123.88 | 128.46 |
| 33 | Q | 606 | CHL | C3C-C4C-NC | 2.98 | 113.92 | 110.57 |
| 25 | 8 | 302 | CLA | CMB-C2B-C1B | -2.98 | 123.88 | 128.46 |
| 33 | S | 308 | CHL | C3C-C4C-NC | 2.98 | 113.92 | 110.57 |
| 33 | 1 | 601 | CHL | CHC-C1C-NC | 2.98 | 128.73 | 124.20 |
| 25 | S | 311 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 25 | 5 | 319 | CLA | CMB-C2B-C3B | 2.98 | 130.26 | 124.68 |
| 25 | B | 831 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 28 | L | 208 | BCR | C28-C27-C26 | -2.98 | 108.75 | 114.08 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | 1 | 615 | LUT | C8-C7-C6 | -2.98 | 118.83 | 127.20 |
| 35 | Q | 616 | XAT | C35-C15-C14 | -2.98 | 117.37 | 123.47 |
| 25 | 1 | 607 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 25 | A | 812 | CLA | C1B-CHB-C4A | -2.98 | 124.22 | 130.12 |
| 25 | 4 | 302 | CLA | CMB-C2B-C1B | -2.98 | 123.89 | 128.46 |
| 34 | a | 315 | LUT | C16-C1-C6 | -2.98 | 105.47 | 110.30 |
| 28 | O | 204 | BCR | C27-C26-C25 | -2.98 | 118.41 | 122.73 |
| 28 | B | 851 | BCR | C24-C23-C22 | -2.98 | 121.74 | 126.23 |
| 34 | S | 316 | LUT | C21-C26-C27 | -2.98 | 108.94 | 112.70 |
| 28 | 3 | 318 | BCR | C33-C5-C4 | 2.98 | 119.33 | 113.62 |
| 28 | G | 203 | BCR | C3-C4-C5 | -2.97 | 108.77 | 114.08 |
| 25 | 3 | 312 | CLA | CMB-C2B-C3B | 2.97 | 130.24 | 124.68 |
| 25 | A | 804 | CLA | O2D-CGD-O1D | -2.97 | 118.02 | 123.84 |
| 25 | a | 301 | CLA | O2D-CGD-O1D | -2.97 | 118.02 | 123.84 |
| 25 | 5 | 314 | CLA | CMB-C2B-C3B | 2.97 | 130.24 | 124.68 |
| 28 | 6 | 621 | BCR | C16-C17-C18 | -2.97 | 123.07 | 127.31 |
| 25 | P | 611 | CLA | C3B-C4B-NB | 2.97 | 113.05 | 109.21 |
| 33 | U | 309 | CHL | CHD-C4C-NC | 2.97 | 128.89 | 124.20 |
| 33 | R | 606 | CHL | C1D-CHD-C4C | -2.97 | 119.64 | 126.06 |
| 34 | 2 | 316 | LUT | C35-C15-C14 | -2.97 | 117.39 | 123.47 |
| 34 | Q | 614 | LUT | C3-C4-C5 | -2.97 | 105.93 | 111.85 |
| 25 | A | 828 | CLA | O2D-CGD-O1D | -2.97 | 118.03 | 123.84 |
| 25 | 7 | 310 | CLA | CHB-C4A-NA | 2.97 | 128.62 | 124.51 |
| 28 | 6 | 621 | BCR | C8-C7-C6 | -2.97 | 118.86 | 127.20 |
| 25 | A | 821 | CLA | CHB-C4A-NA | 2.97 | 128.62 | 124.51 |
| 33 | S | 309 | CHL | C1D-ND-C4D | 2.97 | 108.44 | 106.33 |
| 36 | P | 617 | NEX | C24-C23-C22 | -2.97 | 105.04 | 110.77 |
| 25 | S | 301 | CLA | O2D-CGD-O1D | -2.97 | 118.03 | 123.84 |
| 28 | 7 | 316 | BCR | C21-C20-C19 | -2.97 | 113.95 | 123.22 |
| 25 | B | 825 | CLA | CMB-C2B-C3B | 2.97 | 130.23 | 124.68 |
| 28 | 6 | 621 | BCR | C34-C9-C10 | -2.97 | 118.76 | 122.92 |
| 25 | B | 807 | CLA | CMB-C2B-C1B | -2.97 | 123.90 | 128.46 |
| 33 | T | 605 | CHL | CMB-C2B-C3B | 2.97 | 130.23 | 124.68 |
| 36 | P | 621 | NEX | C2-C1-C6 | 2.97 | 112.09 | 109.21 |
| 25 | A | 816 | CLA | CAA-CBA-CGA | -2.97 | 104.58 | 113.25 |
| 25 | A | 808 | CLA | O2D-CGD-O1D | -2.97 | 118.04 | 123.84 |
| 33 | Q | 608 | CHL | O2A-CGA-CBA | 2.97 | 121.22 | 111.91 |
| 33 | 4 | 304 | CHL | C3C-C4C-NC | 2.97 | 113.90 | 110.57 |
| 28 | 8 | 318 | BCR | C38-C26-C27 | 2.97 | 119.31 | 113.62 |
| 25 | P | 603 | CLA | CMB-C2B-C3B | 2.96 | 130.22 | 124.68 |
| 33 | 5 | 308 | CHL | CMB-C2B-C3B | 2.96 | 130.22 | 124.68 |
| 25 | B | 836 | CLA | O2D-CGD-O1D | -2.96 | 118.04 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | K | 206 | BCR | C27-C26-C25 | -2.96 | 118.43 | 122.73 |
| 25 | 3 | 305 | CLA | CMB-C2B-C3B | 2.96 | 130.22 | 124.68 |
| 34 | Q | 615 | LUT | C16-C1-C6 | -2.96 | 105.49 | 110.30 |
| 33 | P | 609 | CHL | O2A-CGA-CBA | 2.96 | 121.20 | 111.91 |
| 33 | Q | 605 | CHL | C3C-C4C-NC | 2.96 | 113.89 | 110.57 |
| 25 | A | 825 | CLA | CMB-C2B-C3B | 2.96 | 130.22 | 124.68 |
| 25 | 1 | 608 | CLA | CMB-C2B-C3B | 2.96 | 130.22 | 124.68 |
| 25 | A | 805 | CLA | CHB-C4A-NA | 2.96 | 128.61 | 124.51 |
| 33 | R | 609 | CHL | O2A-CGA-CBA | 2.96 | 121.19 | 111.91 |
| 25 | 8 | 312 | CLA | CMB-C2B-C1B | -2.96 | 123.92 | 128.46 |
| 34 | Q | 615 | LUT | C15-C35-C34 | -2.96 | 117.41 | 123.47 |
| 25 | 5 | 305 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 25 | H | 205 | CLA | CHB-C4A-NA | 2.96 | 128.60 | 124.51 |
| 25 | 4 | 313 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 33 | U | 309 | CHL | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 33 | S | 307 | CHL | O2A-CGA-CBA | 2.96 | 121.19 | 111.91 |
| 25 | Q | 604 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 25 | B | 830 | CLA | C1-C2-C3 | -2.96 | 120.93 | 126.04 |
| 33 | U | 306 | CHL | CMB-C2B-C3B | 2.95 | 130.21 | 124.68 |
| 25 | 2 | 308 | CLA | O2D-CGD-O1D | -2.95 | 118.06 | 123.84 |
| 25 | 8 | 310 | CLA | CMB-C2B-C3B | 2.95 | 130.20 | 124.68 |
| 25 | T | 610 | CLA | C1B-CHB-C4A | -2.95 | 124.27 | 130.12 |
| 34 | 3 | 316 | LUT | C30-C31-C32 | -2.95 | 114.00 | 123.22 |
| 33 | S | 310 | CHL | C1D-CHD-C4C | -2.95 | 119.69 | 126.06 |
| 28 | B | 842 | BCR | C21-C20-C19 | -2.95 | 114.00 | 123.22 |
| 33 | 6 | 608 | CHL | C1D-CHD-C4C | -2.95 | 119.69 | 126.06 |
| 25 | S | 315 | CLA | O2D-CGD-O1D | -2.95 | 118.07 | 123.84 |
| 25 | B | 819 | CLA | CMB-C2B-C3B | 2.95 | 130.20 | 124.68 |
| 25 | 4 | 301 | CLA | CMB-C2B-C3B | 2.95 | 130.20 | 124.68 |
| 28 | A | 849 | BCR | C16-C15-C14 | -2.95 | 117.43 | 123.47 |
| 25 | 1 | 610 | CLA | CMB-C2B-C3B | 2.95 | 130.20 | 124.68 |
| 25 | a | 309 | CLA | CMB-C2B-C3B | 2.95 | 130.20 | 124.68 |
| 33 | 9 | 307 | CHL | C3B-C4B-NB | 2.95 | 113.02 | 109.21 |
| 25 | T | 609 | CLA | O1D-CGD-CBD | 2.95 | 130.52 | 124.48 |
| 34 | R | 616 | LUT | C18-C5-C4 | 2.95 | 119.82 | 114.36 |
| 28 | L | 204 | BCR | C24-C23-C22 | -2.95 | 121.78 | 126.23 |
| 34 | 6 | 619 | LUT | C16-C1-C6 | -2.95 | 105.52 | 110.30 |
| 33 | S | 306 | CHL | C3C-C4C-NC | 2.95 | 113.88 | 110.57 |
| 33 | T | 607 | CHL | O2A-CGA-CBA | 2.95 | 121.16 | 111.91 |
| 25 | A | 820 | CLA | CMB-C2B-C3B | 2.95 | 130.19 | 124.68 |
| 25 | 7 | 313 | CLA | CMB-C2B-C3B | 2.95 | 130.19 | 124.68 |
| 33 | T | 607 | CHL | CAC-C3C-C4C | 2.95 | 128.63 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 3 | 306 | CHL | CAC-C3C-C4C | 2.95 | 128.63 | 124.81 |
| 28 | B | 842 | BCR | C37-C22-C21 | -2.95 | 118.80 | 122.92 |
| 25 | 6 | 603 | CLA | CMB-C2B-C1B | -2.95 | 123.94 | 128.46 |
| 28 | B | 843 | BCR | C3-C4-C5 | -2.95 | 108.82 | 114.08 |
| 28 | 4 | 317 | BCR | C16-C17-C18 | -2.95 | 123.11 | 127.31 |
| 33 | Q | 605 | CHL | CHB-C4A-NA | 2.95 | 128.59 | 124.51 |
| 33 | S | 310 | CHL | C1B-CHB-C4A | -2.94 | 124.28 | 130.12 |
| 28 | A | 847 | BCR | C3-C4-C5 | -2.94 | 108.82 | 114.08 |
| 34 | 8 | 316 | LUT | C20-C13-C12 | 2.94 | 122.72 | 118.08 |
| 25 | 6 | 601 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 33 | a | 305 | CHL | CAC-C3C-C4C | 2.94 | 128.63 | 124.81 |
| 25 | U | 304 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 25 | 3 | 308 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 25 | S | 305 | CLA | O2D-CGD-O1D | -2.94 | 118.09 | 123.84 |
| 25 | 8 | 315 | CLA | O2D-CGD-O1D | -2.94 | 118.09 | 123.84 |
| 25 | T | 610 | CLA | O2D-CGD-CBD | 2.94 | 116.49 | 111.27 |
| 25 | A | 816 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 25 | Q | 610 | CLA | C1B-CHB-C4A | -2.94 | 124.30 | 130.12 |
| 25 | 2 | 311 | CLA | CMB-C2B-C1B | -2.94 | 123.95 | 128.46 |
| 25 | S | 301 | CLA | C1B-CHB-C4A | -2.94 | 124.30 | 130.12 |
| 25 | A | 833 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 25 | K | 202 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 33 | S | 309 | CHL | C1D-CHD-C4C | -2.94 | 119.72 | 126.06 |
| 33 | 6 | 617 | CHL | CMB-C2B-C3B | 2.94 | 130.17 | 124.68 |
| 33 | 6 | 606 | CHL | CHC-C1C-NC | 2.94 | 128.66 | 124.20 |
| 33 | 3 | 306 | CHL | O2A-CGA-CBA | 2.94 | 121.12 | 111.91 |
| 25 | J | 105 | CLA | CMB-C2B-C1B | -2.94 | 123.95 | 128.46 |
| 34 | a | 316 | LUT | C2-C3-C4 | 2.94 | 114.32 | 110.30 |
| 28 | L | 208 | BCR | C38-C26-C27 | 2.93 | 119.25 | 113.62 |
| 25 | 5 | 313 | CLA | CMB-C2B-C1B | -2.93 | 123.95 | 128.46 |
| 25 | 5 | 311 | CLA | CMB-C2B-C3B | 2.93 | 130.17 | 124.68 |
| 28 | 5 | 323 | BCR | C8-C9-C10 | 2.93 | 123.44 | 118.94 |
| 25 | 7 | 309 | CLA | CMB-C2B-C3B | 2.93 | 130.16 | 124.68 |
| 25 | B | 835 | CLA | O2D-CGD-O1D | -2.93 | 118.11 | 123.84 |
| 28 | 8 | 318 | BCR | C31-C1-C6 | -2.93 | 105.55 | 110.30 |
| 28 | A | 848 | BCR | C20-C21-C22 | -2.93 | 123.13 | 127.31 |
| 33 | 3 | 306 | CHL | C3C-C4C-NC | 2.93 | 113.86 | 110.57 |
| 25 | 1 | 607 | CLA | CMB-C2B-C1B | -2.93 | 123.96 | 128.46 |
| 25 | A | 816 | CLA | O2D-CGD-O1D | -2.93 | 118.11 | 123.84 |
| 25 | L | 202 | CLA | CMB-C2B-C1B | -2.93 | 123.96 | 128.46 |
| 25 | A | 839 | CLA | CHB-C4A-NA | 2.93 | 128.56 | 124.51 |
| 25 | K | 205 | CLA | CMB-C2B-C3B | 2.93 | 130.16 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 8 | 315 | CLA | CMB-C2B-C3B | 2.93 | 130.15 | 124.68 |
| 33 | U | 305 | CHL | CHC-C1C-NC | 2.93 | 128.64 | 124.20 |
| 33 | U | 309 | CHL | O2A-CGA-CBA | 2.93 | 121.09 | 111.91 |
| 34 | 6 | 622 | LUT | C15-C14-C13 | -2.93 | 123.13 | 127.31 |
| 25 | L | 209 | CLA | CMB-C2B-C3B | 2.92 | 130.15 | 124.68 |
| 25 | S | 315 | CLA | CMB-C2B-C3B | 2.92 | 130.15 | 124.68 |
| 25 | B | 807 | CLA | CHB-C4A-NA | 2.92 | 128.56 | 124.51 |
| 33 | 6 | 607 | CHL | OMC-CMC-C2C | -2.92 | 119.08 | 125.69 |
| 26 | B | 839 | PQN | C11-C3-C4 | 2.92 | 121.63 | 118.50 |
| 25 | 3 | 304 | CLA | CMB-C2B-C1B | -2.92 | 123.97 | 128.46 |
| 36 | T | 616 | NEX | C35-C15-C14 | -2.92 | 117.48 | 123.47 |
| 34 | R | 615 | LUT | C31-C30-C29 | -2.92 | 123.14 | 127.31 |
| 28 | L | 208 | BCR | C20-C21-C22 | -2.92 | 123.14 | 127.31 |
| 25 | S | 303 | CLA | CBC-CAC-C3C | -2.92 | 104.38 | 112.43 |
| 28 | B | 845 | BCR | C37-C22-C21 | -2.92 | 118.83 | 122.92 |
| 25 | U | 313 | CLA | CHB-C4A-NA | 2.92 | 128.55 | 124.51 |
| 33 | 6 | 606 | CHL | C3C-C4C-NC | 2.92 | 113.84 | 110.57 |
| 34 | 5 | 318 | LUT | C21-C26-C27 | -2.92 | 109.01 | 112.70 |
| 33 | P | 605 | CHL | C1D-ND-C4D | 2.92 | 108.41 | 106.33 |
| 25 | B | 815 | CLA | C1B-CHB-C4A | -2.92 | 124.34 | 130.12 |
| 33 | T | 606 | CHL | CAC-C3C-C4C | 2.92 | 128.60 | 124.81 |
| 25 | B | 802 | CLA | CMB-C2B-C3B | 2.92 | 130.13 | 124.68 |
| 28 | B | 841 | BCR | C23-C24-C25 | -2.92 | 119.01 | 127.20 |
| 34 | 2 | 315 | LUT | C10-C11-C12 | -2.92 | 114.12 | 123.22 |
| 25 | 8 | 314 | CLA | O2D-CGD-O1D | -2.92 | 118.14 | 123.84 |
| 36 | P | 621 | NEX | C16-C1-C2 | -2.92 | 95.96 | 109.05 |
| 33 | T | 604 | CHL | O2A-CGA-CBA | 2.91 | 121.06 | 111.91 |
| 28 | L | 208 | BCR | C1-C6-C5 | -2.91 | 118.51 | 122.61 |
| 33 | R | 605 | CHL | CHC-C1C-NC | 2.91 | 128.62 | 124.20 |
| 33 | S | 321 | CHL | CHC-C1C-NC | 2.91 | 128.62 | 124.20 |
| 33 | P | 622 | CHL | C4A-NA-C1A | 2.91 | 108.02 | 106.71 |
| 25 | B | 849 | CLA | C1B-CHB-C4A | -2.91 | 124.35 | 130.12 |
| 33 | 8 | 307 | CHL | CHC-C1C-NC | 2.91 | 128.62 | 124.20 |
| 25 | 5 | 315 | CLA | CMB-C2B-C3B | 2.91 | 130.12 | 124.68 |
| 33 | S | 308 | CHL | C1D-CHD-C4C | -2.91 | 119.78 | 126.06 |
| 25 | S | 312 | CLA | CMB-C2B-C3B | 2.91 | 130.12 | 124.68 |
| 34 | U | 314 | LUT | C20-C13-C14 | -2.91 | 118.85 | 122.92 |
| 33 | 8 | 307 | CHL | C1B-CHB-C4A | -2.91 | 124.36 | 130.12 |
| 25 | A | 829 | CLA | C1-C2-C3 | -2.91 | 121.01 | 126.04 |
| 33 | 6 | 617 | CHL | CHC-C1C-NC | 2.91 | 128.61 | 124.20 |
| 25 | a | 306 | CLA | O2D-CGD-O1D | -2.91 | 118.16 | 123.84 |
| 25 | a | 312 | CLA | O1D-CGD-CBD | 2.91 | 130.43 | 124.48 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | S | 311 | CLA | CMB-C2B-C3B | 2.91 | 130.12 | 124.68 |
| 33 | P | 606 | CHL | CMB-C2B-C3B | 2.91 | 130.12 | 124.68 |
| 34 | a | 314 | LUT | C10-C11-C12 | -2.91 | 114.15 | 123.22 |
| 33 | 9 | 306 | CHL | CHC-C1C-NC | 2.91 | 128.61 | 124.20 |
| 25 | a | 302 | CLA | CMB-C2B-C3B | 2.91 | 130.11 | 124.68 |
| 33 | 6 | 606 | CHL | CHD-C1D-ND | -2.91 | 121.78 | 124.45 |
| 34 | 1 | 617 | LUT | C1-C2-C3 | 2.90 | 120.20 | 113.64 |
| 33 | S | 302 | CHL | C3B-C4B-NB | 2.90 | 112.97 | 109.21 |
| 25 | A | 815 | CLA | CMB-C2B-C3B | 2.90 | 130.11 | 124.68 |
| 34 | 5 | 322 | LUT | C18-C5-C4 | 2.90 | 119.73 | 114.36 |
| 25 | A | 851 | CLA | CMB-C2B-C1B | -2.90 | 124.01 | 128.46 |
| 28 | L | 204 | BCR | C21-C20-C19 | -2.90 | 114.17 | 123.22 |
| 34 | 9 | 313 | LUT | C20-C13-C12 | 2.90 | 122.65 | 118.08 |
| 25 | A | 830 | CLA | CMB-C2B-C3B | 2.90 | 130.10 | 124.68 |
| 25 | H | 203 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 33 | U | 307 | CHL | CHC-C1C-NC | 2.90 | 128.60 | 124.20 |
| 34 | 1 | 617 | LUT | C4-C5-C6 | -2.90 | 114.39 | 120.85 |
| 25 | 8 | 303 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 25 | 6 | 614 | CLA | CMB-C2B-C3B | 2.90 | 130.10 | 124.68 |
| 25 | 2 | 307 | CLA | CMB-C2B-C1B | -2.90 | 124.01 | 128.46 |
| 34 | Q | 615 | LUT | C8-C7-C6 | -2.90 | 119.06 | 127.20 |
| 28 | J | 106 | BCR | C3-C4-C5 | -2.90 | 108.90 | 114.08 |
| 28 | L | 208 | BCR | C33-C5-C4 | 2.90 | 119.18 | 113.62 |
| 33 | a | 305 | CHL | O2A-CGA-CBA | 2.90 | 120.99 | 111.91 |
| 33 | P | 605 | CHL | CHC-C1C-NC | 2.89 | 128.59 | 124.20 |
| 28 | B | 845 | BCR | C10-C11-C12 | -2.89 | 114.18 | 123.22 |
| 33 | 5 | 317 | CHL | CHB-C4A-NA | 2.89 | 128.51 | 124.51 |
| 25 | K | 204 | CLA | C1B-CHB-C4A | -2.89 | 124.38 | 130.12 |
| 28 | F | 803 | BCR | C34-C9-C10 | -2.89 | 118.87 | 122.92 |
| 33 | R | 606 | CHL | C3C-C4C-NC | 2.89 | 113.82 | 110.57 |
| 25 | R | 613 | CLA | CMB-C2B-C3B | 2.89 | 130.09 | 124.68 |
| 25 | a | 312 | CLA | CMB-C2B-C3B | 2.89 | 130.09 | 124.68 |
| 33 | P | 606 | CHL | C3C-C4C-NC | 2.89 | 113.81 | 110.57 |
| 25 | B | 802 | CLA | O2D-CGD-O1D | -2.89 | 118.18 | 123.84 |
| 25 | B | 830 | CLA | O2D-CGD-O1D | -2.89 | 118.18 | 123.84 |
| 28 | J | 106 | BCR | C38-C26-C27 | 2.89 | 119.17 | 113.62 |
| 25 | B | 833 | CLA | CMB-C2B-C3B | 2.89 | 130.09 | 124.68 |
| 25 | 6 | 613 | CLA | CHB-C4A-NA | 2.89 | 128.51 | 124.51 |
| 34 | 4 | 315 | LUT | C8-C7-C6 | -2.89 | 119.08 | 127.20 |
| 25 | 6 | 623 | CLA | CHB-C4A-NA | 2.89 | 128.51 | 124.51 |
| 28 | 3 | 317 | BCR | C11-C10-C9 | -2.89 | 123.18 | 127.31 |
| 34 | 5 | 318 | LUT | C15-C14-C13 | -2.89 | 123.18 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | B | 851 | BCR | C7-C8-C9 | -2.89 | 121.87 | 126.23 |
| 25 | 2 | 312 | CLA | CHB-C4A-NA | 2.89 | 128.51 | 124.51 |
| 34 | 6 | 622 | LUT | C21-C26-C27 | -2.89 | 109.05 | 112.70 |
| 28 | A | 847 | BCR | C10-C11-C12 | -2.89 | 114.20 | 123.22 |
| 35 | P | 616 | XAT | C7-C8-C9 | -2.89 | 121.05 | 125.53 |
| 33 | P | 619 | CHL | C1D-CHD-C4C | -2.89 | 119.83 | 126.06 |
| 28 | B | 851 | BCR | C38-C26-C25 | -2.89 | 121.29 | 124.53 |
| 25 | A | 837 | CLA | CMB-C2B-C3B | 2.89 | 130.08 | 124.68 |
| 34 | a | 315 | LUT | C20-C13-C12 | 2.89 | 122.62 | 118.08 |
| 28 | 3 | 318 | BCR | C8-C9-C10 | 2.89 | 123.37 | 118.94 |
| 25 | 8 | 303 | CLA | CMB-C2B-C3B | 2.89 | 130.08 | 124.68 |
| 34 | 5 | 318 | LUT | C20-C13-C12 | 2.89 | 122.62 | 118.08 |
| 33 | P | 607 | CHL | C1D-CHD-C4C | -2.88 | 119.83 | 126.06 |
| 33 | 6 | 617 | CHL | C1D-CHD-C4C | -2.88 | 119.83 | 126.06 |
| 25 | A | 839 | CLA | O2D-CGD-O1D | -2.88 | 118.20 | 123.84 |
| 25 | B | 801 | CLA | O2D-CGD-O1D | -2.88 | 118.20 | 123.84 |
| 25 | 2 | 314 | CLA | C1B-CHB-C4A | -2.88 | 124.41 | 130.12 |
| 25 | T | 608 | CLA | O2D-CGD-O1D | -2.88 | 118.20 | 123.84 |
| 25 | a | 303 | CLA | O2D-CGD-O1D | -2.88 | 118.20 | 123.84 |
| 25 | 9 | 308 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 25 | B | 803 | CLA | C1B-CHB-C4A | -2.88 | 124.41 | 130.12 |
| 33 | 4 | 322 | CHL | CHC-C1C-NC | 2.88 | 128.58 | 124.20 |
| 25 | 7 | 308 | CLA | CHB-C4A-NA | 2.88 | 128.50 | 124.51 |
| 33 | Q | 606 | CHL | O2A-CGA-CBA | 2.88 | 120.95 | 111.91 |
| 25 | a | 306 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 28 | O | 204 | BCR | C29-C30-C25 | 2.88 | 114.91 | 110.48 |
| 25 | 6 | 612 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 33 | 4 | 306 | CHL | C1D-CHD-C4C | -2.88 | 119.85 | 126.06 |
| 28 | L | 208 | BCR | C30-C25-C26 | -2.88 | 118.56 | 122.61 |
| 25 | R | 611 | CLA | CHB-C4A-NA | 2.88 | 128.49 | 124.51 |
| 33 | U | 305 | CHL | C3C-C4C-NC | 2.88 | 113.80 | 110.57 |
| 25 | 6 | 605 | CLA | O2A-CGA-O1A | -2.88 | 116.33 | 123.59 |
| 33 | 4 | 322 | CHL | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 28 | F | 803 | BCR | C12-C13-C14 | 2.88 | 123.36 | 118.94 |
| 33 | S | 302 | CHL | CHC-C1C-NC | 2.88 | 128.57 | 124.20 |
| 25 | Q | 603 | CLA | CMB-C2B-C3B | 2.88 | 130.06 | 124.68 |
| 25 | 4 | 313 | CLA | CMB-C2B-C3B | 2.88 | 130.06 | 124.68 |
| 25 | A | 829 | CLA | CMB-C2B-C1B | -2.88 | 124.04 | 128.46 |
| 28 | 4 | 317 | BCR | C34-C9-C10 | -2.88 | 118.89 | 122.92 |
| 25 | B | 816 | CLA | CHB-C4A-NA | 2.88 | 128.49 | 124.51 |
| 28 | I | 201 | BCR | C37-C22-C21 | -2.88 | 118.89 | 122.92 |
| 25 | B | 833 | CLA | O2D-CGD-O1D | -2.88 | 118.22 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 9 | 309 | CLA | CMB-C2B-C1B | -2.88 | 124.04 | 128.46 |
| 25 | S | 320 | CLA | CMB-C2B-C3B | 2.88 | 130.06 | 124.68 |
| 33 | Q | 605 | CHL | CHC-C1C-NC | 2.87 | 128.56 | 124.20 |
| 33 | T | 606 | CHL | CHC-C1C-NC | 2.87 | 128.56 | 124.20 |
| 33 | T | 606 | CHL | C1D-CHD-C4C | -2.87 | 119.86 | 126.06 |
| 25 | B | 838 | CLA | CMB-C2B-C3B | 2.87 | 130.05 | 124.68 |
| 34 | a | 314 | LUT | C8-C7-C6 | -2.87 | 119.13 | 127.20 |
| 34 | S | 316 | LUT | C3-C4-C5 | -2.87 | 106.13 | 111.85 |
| 25 | 1 | 602 | CLA | CMB-C2B-C1B | -2.87 | 124.05 | 128.46 |
| 35 | S | 318 | XAT | C27-C28-C29 | -2.87 | 121.07 | 125.53 |
| 25 | A | 853 | CLA | CMB-C2B-C3B | 2.87 | 130.05 | 124.68 |
| 33 | S | 309 | CHL | C3C-C4C-NC | 2.87 | 113.79 | 110.57 |
| 25 | O | 201 | CLA | CHB-C4A-NA | 2.87 | 128.48 | 124.51 |
| 25 | 1 | 603 | CLA | CMB-C2B-C3B | 2.87 | 130.05 | 124.68 |
| 25 | A | 822 | CLA | CHB-C4A-NA | 2.87 | 128.48 | 124.51 |
| 33 | U | 305 | CHL | C1D-CHD-C4C | -2.87 | 119.87 | 126.06 |
| 28 | J | 106 | BCR | C23-C24-C25 | -2.87 | 119.14 | 127.20 |
| 34 | R | 615 | LUT | C20-C13-C14 | -2.87 | 118.91 | 122.92 |
| 25 | 6 | 605 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 33 | 4 | 314 | CHL | C1D-CHD-C4C | -2.87 | 119.87 | 126.06 |
| 25 | 8 | 308 | CLA | CMB-C2B-C3B | 2.87 | 130.04 | 124.68 |
| 33 | R | 606 | CHL | CMB-C2B-C3B | 2.87 | 130.04 | 124.68 |
| 34 | P | 614 | LUT | C31-C30-C29 | -2.87 | 123.22 | 127.31 |
| 28 | A | 854 | BCR | C30-C25-C26 | -2.87 | 118.58 | 122.61 |
| 33 | U | 306 | CHL | C3C-C4C-NC | 2.87 | 113.79 | 110.57 |
| 25 | 7 | 308 | CLA | CMB-C2B-C1B | -2.87 | 124.06 | 128.46 |
| 25 | 2 | 309 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 25 | R | 603 | CLA | CHB-C4A-NA | 2.87 | 128.47 | 124.51 |
| 28 | A | 849 | BCR | C28-C27-C26 | -2.86 | 108.96 | 114.08 |
| 34 | 1 | 615 | LUT | C30-C31-C32 | -2.86 | 114.28 | 123.22 |
| 25 | R | 612 | CLA | O2D-CGD-CBD | 2.86 | 116.36 | 111.27 |
| 33 | 9 | 307 | CHL | C3C-C4C-NC | 2.86 | 113.78 | 110.57 |
| 25 | 8 | 311 | CLA | CMB-C2B-C3B | 2.86 | 130.03 | 124.68 |
| 25 | A | 842 | CLA | CMB-C2B-C1B | -2.86 | 124.07 | 128.46 |
| 25 | 1 | 612 | CLA | CMB-C2B-C1B | -2.86 | 124.07 | 128.46 |
| 33 | R | 607 | CHL | C1D-CHD-C4C | -2.86 | 119.89 | 126.06 |
| 34 | T | 614 | LUT | C18-C5-C6 | -2.86 | 121.32 | 124.53 |
| 25 | R | 602 | CLA | O2D-CGD-O1D | -2.86 | 118.25 | 123.84 |
| 25 | 3 | 309 | CLA | CMB-C2B-C3B | 2.86 | 130.03 | 124.68 |
| 35 | P | 620 | XAT | C7-C8-C9 | -2.86 | 121.09 | 125.53 |
| 25 | P | 612 | CLA | O2D-CGD-CBD | 2.86 | 116.35 | 111.27 |
| 34 | 3 | 315 | LUT | C20-C13-C12 | 2.86 | 122.58 | 118.08 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | Q | 605 | CHL | C1D-CHD-C4C | -2.86 | 119.89 | 126.06 |
| 25 | A | 851 | CLA | C1B-CHB-C4A | -2.86 | 124.46 | 130.12 |
| 34 | S | 316 | LUT | C15-C14-C13 | -2.86 | 123.23 | 127.31 |
| 25 | 6 | 609 | CLA | CMB-C2B-C3B | 2.86 | 130.02 | 124.68 |
| 36 | P | 621 | NEX | C39-C29-C30 | -2.86 | 118.92 | 122.92 |
| 25 | 7 | 306 | CLA | O2D-CGD-O1D | -2.86 | 118.26 | 123.84 |
| 25 | 3 | 311 | CLA | CHB-C4A-NA | 2.86 | 128.46 | 124.51 |
| 25 | 7 | 311 | CLA | CMB-C2B-C1B | -2.85 | 124.08 | 128.46 |
| 25 | 8 | 308 | CLA | CHB-C4A-NA | 2.85 | 128.46 | 124.51 |
| 35 | Q | 616 | XAT | C20-C13-C12 | 2.85 | 122.57 | 118.08 |
| 33 | T | 605 | CHL | C3C-C4C-NC | 2.85 | 113.77 | 110.57 |
| 25 | 7 | 307 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 33 | U | 306 | CHL | O2A-CGA-CBA | 2.85 | 120.86 | 111.91 |
| 25 | S | 313 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 33 | S | 321 | CHL | CMB-C2B-C3B | 2.85 | 130.01 | 124.68 |
| 34 | 8 | 317 | LUT | C16-C1-C6 | -2.85 | 105.68 | 110.30 |
| 33 | P | 606 | CHL | O2A-CGA-CBA | 2.85 | 120.85 | 111.91 |
| 33 | S | 302 | CHL | CHD-C1D-ND | -2.85 | 121.83 | 124.45 |
| 25 | 9 | 311 | CLA | C1B-CHB-C4A | -2.85 | 124.47 | 130.12 |
| 34 | T | 613 | LUT | C31-C30-C29 | -2.85 | 123.24 | 127.31 |
| 28 | A | 847 | BCR | C38-C26-C27 | 2.85 | 119.09 | 113.62 |
| 34 | a | 314 | LUT | C20-C13-C12 | 2.85 | 122.56 | 118.08 |
| 28 | B | 851 | BCR | C28-C27-C26 | -2.85 | 108.99 | 114.08 |
| 25 | O | 203 | CLA | CAB-C3B-C2B | 2.85 | 130.26 | 124.69 |
| 25 | 2 | 311 | CLA | CHB-C4A-NA | 2.85 | 128.45 | 124.51 |
| 25 | P | 602 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 25 | B | 825 | CLA | C1B-CHB-C4A | -2.85 | 124.48 | 130.12 |
| 25 | A | 838 | CLA | O2D-CGD-O1D | -2.85 | 118.28 | 123.84 |
| 25 | 4 | 310 | CLA | C1B-CHB-C4A | -2.84 | 124.48 | 130.12 |
| 33 | T | 604 | CHL | CHC-C1C-NC | 2.84 | 128.52 | 124.20 |
| 25 | B | 814 | CLA | CMB-C2B-C3B | 2.84 | 130.00 | 124.68 |
| 25 | G | 201 | CLA | CMB-C2B-C3B | 2.84 | 130.00 | 124.68 |
| 25 | A | 801 | CLA | C1B-CHB-C4A | -2.84 | 124.49 | 130.12 |
| 34 | P | 615 | LUT | C18-C5-C6 | -2.84 | 121.34 | 124.53 |
| 25 | 7 | 312 | CLA | O2D-CGD-CBD | 2.84 | 116.32 | 111.27 |
| 25 | 6 | 615 | CLA | CMB-C2B-C3B | 2.84 | 130.00 | 124.68 |
| 27 | B | 847 | LHG | C6-C5-C4 | -2.84 | 105.07 | 111.79 |
| 28 | A | 845 | BCR | C38-C26-C25 | -2.84 | 121.34 | 124.53 |
| 28 | L | 208 | BCR | C38-C26-C25 | -2.84 | 121.34 | 124.53 |
| 25 | A | 815 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 25 | B | 802 | CLA | C1-C2-C3 | -2.84 | 121.13 | 126.04 |
| 33 | T | 601 | CHL | C3B-C4B-NB | 2.84 | 112.88 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 832 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 25 | B | 801 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 34 | S | 316 | LUT | C8-C7-C6 | -2.84 | 119.23 | 127.20 |
| 25 | B | 817 | CLA | C1B-CHB-C4A | -2.84 | 124.50 | 130.12 |
| 25 | J | 105 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 28 | 8 | 301 | BCR | C15-C14-C13 | -2.84 | 123.26 | 127.31 |
| 25 | B | 804 | CLA | CHB-C4A-NA | 2.84 | 128.44 | 124.51 |
| 32 | 2 | 301 | LMG | O8-C28-C29 | 2.84 | 120.81 | 111.91 |
| 33 | 6 | 608 | CHL | CHC-C1C-NC | 2.83 | 128.50 | 124.20 |
| 25 | U | 311 | CLA | CMB-C2B-C3B | 2.83 | 129.98 | 124.68 |
| 33 | P | 619 | CHL | CHC-C1C-NC | 2.83 | 128.50 | 124.20 |
| 34 | U | 315 | LUT | C18-C5-C4 | 2.83 | 119.61 | 114.36 |
| 36 | T | 616 | NEX | C39-C29-C30 | -2.83 | 118.95 | 122.92 |
| 25 | 3 | 309 | CLA | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 34 | T | 613 | LUT | C18-C5-C4 | 2.83 | 119.60 | 114.36 |
| 33 | 5 | 317 | CHL | O2D-CGD-O1D | -2.83 | 118.30 | 123.84 |
| 33 | S | 310 | CHL | C3C-C4C-NC | 2.83 | 113.75 | 110.57 |
| 28 | B | 841 | BCR | C15-C16-C17 | -2.83 | 117.67 | 123.47 |
| 25 | U | 303 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 33 | 1 | 601 | CHL | CBA-CAA-C2A | -2.83 | 105.52 | 113.86 |
| 25 | K | 202 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 25 | B | 802 | CLA | CHB-C4A-NA | 2.83 | 128.42 | 124.51 |
| 25 | Q | 610 | CLA | CHB-C4A-NA | 2.83 | 128.42 | 124.51 |
| 28 | F | 801 | BCR | C7-C8-C9 | -2.83 | 121.97 | 126.23 |
| 33 | U | 308 | CHL | C1D-CHD-C4C | -2.82 | 119.96 | 126.06 |
| 25 | R | 611 | CLA | O1D-CGD-CBD | 2.82 | 130.26 | 124.48 |
| 25 | A | 832 | CLA | CMB-C2B-C3B | 2.82 | 129.96 | 124.68 |
| 25 | T | 603 | CLA | CMB-C2B-C3B | 2.82 | 129.96 | 124.68 |
| 34 | 6 | 619 | LUT | C20-C13-C12 | 2.82 | 122.53 | 118.08 |
| 25 | A | 851 | CLA | C1-C2-C3 | -2.82 | 121.16 | 126.04 |
| 28 | B | 842 | BCR | C34-C9-C10 | -2.82 | 118.97 | 122.92 |
| 25 | 2 | 313 | CLA | CAA-CBA-CGA | -2.82 | 105.01 | 113.25 |
| 33 | 7 | 305 | CHL | CHC-C1C-NC | 2.82 | 128.48 | 124.20 |
| 34 | 3 | 315 | LUT | C30-C31-C32 | -2.82 | 114.42 | 123.22 |
| 28 | K | 206 | BCR | C38-C26-C27 | 2.82 | 119.03 | 113.62 |
| 25 | 8 | 304 | CLA | CMB-C2B-C3B | 2.82 | 129.95 | 124.68 |
| 28 | A | 854 | BCR | C38-C26-C27 | 2.82 | 119.03 | 113.62 |
| 26 | A | 841 | PQN | C11-C3-C4 | 2.82 | 121.52 | 118.50 |
| 25 | S | 304 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 25 | 5 | 315 | CLA | C1B-CHB-C4A | -2.82 | 124.54 | 130.12 |
| 25 | A | 803 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 25 | A | 818 | CLA | CMB-C2B-C1B | -2.82 | 124.14 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 1 | 605 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 25 | S | 301 | CLA | CAA-CBA-CGA | -2.82 | 105.03 | 113.25 |
| 25 | 2 | 313 | CLA | CMB-C2B-C3B | 2.82 | 129.94 | 124.68 |
| 32 | 1 | 619 | LMG | O8-C28-C29 | 2.82 | 120.74 | 111.91 |
| 25 | A | 826 | CLA | O2D-CGD-O1D | -2.81 | 118.33 | 123.84 |
| 25 | 9 | 305 | CLA | O2D-CGD-O1D | -2.81 | 118.33 | 123.84 |
| 33 | 6 | 607 | CHL | C6-C5-C3 | -2.81 | 110.02 | 114.62 |
| 34 | 4 | 315 | LUT | C39-C29-C28 | 2.81 | 122.51 | 118.08 |
| 33 | 1 | 606 | CHL | O2A-CGA-CBA | 2.81 | 120.74 | 111.91 |
| 35 | Q | 616 | XAT | C38-C25-C24 | 2.81 | 117.44 | 114.28 |
| 25 | J | 103 | CLA | CMB-C2B-C3B | 2.81 | 129.94 | 124.68 |
| 33 | T | 607 | CHL | CHD-C4C-NC | 2.81 | 128.63 | 124.20 |
| 34 | S | 317 | LUT | C18-C5-C6 | -2.81 | 121.37 | 124.53 |
| 31 | B | 850 | SQD | O6-C1-C2 | 2.81 | 112.69 | 108.30 |
| 28 | A | 845 | BCR | C11-C10-C9 | -2.81 | 123.30 | 127.31 |
| 34 | R | 616 | LUT | C15-C35-C34 | -2.81 | 117.72 | 123.47 |
| 33 | T | 604 | CHL | C1D-CHD-C4C | -2.81 | 120.00 | 126.06 |
| 33 | P | 607 | CHL | CHC-C1C-NC | 2.81 | 128.47 | 124.20 |
| 25 | G | 202 | CLA | C1B-CHB-C4A | -2.81 | 124.55 | 130.12 |
| 25 | 2 | 306 | CLA | CMA-C3A-C2A | -2.81 | 109.54 | 116.10 |
| 25 | B | 815 | CLA | CAA-C2A-C3A | -2.81 | 105.09 | 112.78 |
| 25 | B | 824 | CLA | CAC-C3C-C4C | 2.81 | 128.45 | 124.81 |
| 33 | 1 | 606 | CHL | CAC-C3C-C4C | 2.81 | 128.45 | 124.81 |
| 28 | B | 843 | BCR | C16-C17-C18 | -2.81 | 123.30 | 127.31 |
| 25 | A | 809 | CLA | CMB-C2B-C3B | 2.81 | 129.93 | 124.68 |
| 25 | A | 834 | CLA | CMB-C2B-C3B | 2.81 | 129.93 | 124.68 |
| 33 | 6 | 606 | CHL | O2A-CGA-CBA | 2.81 | 120.72 | 111.91 |
| 30 | B | 848 | DGD | O6D-C1D-C2D | 2.81 | 116.29 | 110.35 |
| 25 | Q | 604 | CLA | C1-C2-C3 | -2.81 | 122.21 | 126.75 |
| 25 | B | 837 | CLA | CHB-C4A-NA | 2.81 | 128.39 | 124.51 |
| 25 | B | 835 | CLA | C1B-CHB-C4A | -2.81 | 124.56 | 130.12 |
| 28 | K | 206 | BCR | C35-C13-C12 | 2.80 | 122.50 | 118.08 |
| 25 | F | 802 | CLA | O2D-CGD-O1D | -2.80 | 118.36 | 123.84 |
| 25 | 6 | 612 | CLA | CMB-C2B-C3B | 2.80 | 129.92 | 124.68 |
| 25 | 1 | 611 | CLA | O2D-CGD-O1D | -2.80 | 118.36 | 123.84 |
| 25 | a | 312 | CLA | C1B-CHB-C4A | -2.80 | 124.57 | 130.12 |
| 28 | 5 | 323 | BCR | C36-C18-C17 | -2.80 | 119.00 | 122.92 |
| 33 | 5 | 307 | CHL | C1B-CHB-C4A | -2.80 | 124.57 | 130.12 |
| 33 | U | 307 | CHL | C3C-C4C-NC | 2.80 | 113.71 | 110.57 |
| 33 | R | 608 | CHL | C1D-CHD-C4C | -2.80 | 120.01 | 126.06 |
| 33 | Q | 605 | CHL | CMB-C2B-C3B | 2.80 | 129.92 | 124.68 |
| 33 | S | 321 | CHL | C1-C2-C3 | -2.80 | 122.22 | 126.75 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 822 | CLA | CMB-C2B-C3B | 2.80 | 129.92 | 124.68 |
| 33 | R | 601 | CHL | C3B-C4B-NB | 2.80 | 112.83 | 109.21 |
| 25 | 1 | 607 | CLA | C1-C2-C3 | -2.80 | 121.20 | 126.04 |
| 25 | 7 | 308 | CLA | C1B-CHB-C4A | -2.80 | 124.57 | 130.12 |
| 25 | 4 | 301 | CLA | CHB-C4A-NA | 2.80 | 128.38 | 124.51 |
| 25 | 8 | 306 | CLA | CMB-C2B-C3B | 2.80 | 129.91 | 124.68 |
| 25 | 6 | 603 | CLA | C1-C2-C3 | -2.80 | 121.20 | 126.04 |
| 25 | a | 303 | CLA | CHB-C4A-NA | 2.80 | 128.38 | 124.51 |
| 34 | 3 | 315 | LUT | C35-C34-C33 | -2.80 | 123.32 | 127.31 |
| 28 | O | 204 | BCR | C38-C26-C27 | 2.80 | 118.99 | 113.62 |
| 35 | P | 620 | XAT | C24-C23-C22 | -2.80 | 105.37 | 110.77 |
| 28 | 8 | 318 | BCR | C33-C5-C4 | 2.80 | 118.99 | 113.62 |
| 25 | A | 825 | CLA | O2D-CGD-O1D | -2.79 | 118.37 | 123.84 |
| 28 | A | 847 | BCR | C15-C16-C17 | -2.79 | 117.75 | 123.47 |
| 25 | 8 | 314 | CLA | CHB-C4A-NA | 2.79 | 128.38 | 124.51 |
| 33 | U | 306 | CHL | CHC-C1C-NC | 2.79 | 128.44 | 124.20 |
| 25 | A | 825 | CLA | C1B-CHB-C4A | -2.79 | 124.59 | 130.12 |
| 25 | B | 836 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 25 | 3 | 310 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 25 | 7 | 303 | CLA | O2D-CGD-O1D | -2.79 | 118.38 | 123.84 |
| 25 | a | 313 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 25 | 5 | 312 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 25 | 5 | 303 | CLA | CMC-C2C-C1C | 2.79 | 129.29 | 125.04 |
| 25 | T | 610 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 33 | 5 | 307 | CHL | CHB-C4A-NA | 2.79 | 128.37 | 124.51 |
| 32 | H | 204 | LMG | C9-C8-C7 | -2.79 | 105.19 | 111.79 |
| 33 | T | 606 | CHL | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 25 | B | 808 | CLA | CMB-C2B-C3B | 2.79 | 129.89 | 124.68 |
| 32 | J | 102 | LMG | C8-O7-C10 | -2.79 | 110.93 | 117.79 |
| 25 | B | 810 | CLA | C1B-CHB-C4A | -2.79 | 124.60 | 130.12 |
| 33 | S | 308 | CHL | CHC-C1C-NC | 2.79 | 128.43 | 124.20 |
| 25 | R | 614 | CLA | C1B-CHB-C4A | -2.79 | 124.60 | 130.12 |
| 25 | 7 | 310 | CLA | CMB-C2B-C1B | -2.79 | 124.18 | 128.46 |
| 33 | R | 605 | CHL | OBD-CAD-C3D | -2.79 | 121.81 | 128.52 |
| 34 | R | 615 | LUT | C3-C4-C5 | -2.79 | 106.31 | 111.85 |
| 33 | T | 604 | CHL | CHB-C4A-NA | 2.79 | 128.36 | 124.51 |
| 33 | U | 306 | CHL | CAC-C3C-C4C | 2.79 | 128.42 | 124.81 |
| 33 | T | 607 | CHL | C3B-C4B-NB | 2.79 | 112.81 | 109.21 |
| 25 | 3 | 301 | CLA | C1B-CHB-C4A | -2.78 | 124.60 | 130.12 |
| 25 | G | 202 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 25 | P | 611 | CLA | C4A-NA-C1A | 2.78 | 107.96 | 106.71 |
| 25 | 5 | 306 | CLA | CMB-C2B-C3B | 2.78 | 129.88 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | R | 607 | CHL | CHC-C1C-NC | 2.78 | 128.42 | 124.20 |
| 33 | P | 608 | CHL | C1D-CHD-C4C | -2.78 | 120.06 | 126.06 |
| 25 | T | 609 | CLA | C2A-C1A-CHA | 2.78 | 128.72 | 123.86 |
| 25 | P | 613 | CLA | CMB-C2B-C3B | 2.78 | 129.88 | 124.68 |
| 25 | 5 | 304 | CLA | CHB-C4A-NA | 2.78 | 128.36 | 124.51 |
| 25 | 6 | 611 | CLA | CMB-C2B-C3B | 2.78 | 129.88 | 124.68 |
| 27 | 1 | 618 | LHG | O8-C23-C24 | 2.78 | 120.63 | 111.91 |
| 25 | A | 838 | CLA | C1-C2-C3 | -2.78 | 121.24 | 126.04 |
| 34 | Q | 615 | LUT | C40-C33-C32 | 2.78 | 122.46 | 118.08 |
| 28 | B | 844 | BCR | C21-C20-C19 | -2.78 | 114.55 | 123.22 |
| 33 | 4 | 306 | CHL | O2D-CGD-O1D | -2.78 | 118.41 | 123.84 |
| 25 | 9 | 305 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 25 | A | 835 | CLA | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 33 | 4 | 322 | CHL | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 28 | G | 203 | BCR | C15-C14-C13 | -2.77 | 123.35 | 127.31 |
| 25 | 8 | 309 | CLA | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 33 | 4 | 306 | CHL | CMB-C2B-C3B | 2.77 | 129.87 | 124.68 |
| 25 | A | 813 | CLA | CMB-C2B-C1B | -2.77 | 124.20 | 128.46 |
| 34 | a | 315 | LUT | C3-C4-C5 | -2.77 | 106.33 | 111.85 |
| 28 | 5 | 320 | BCR | C33-C5-C4 | 2.77 | 118.94 | 113.62 |
| 33 | R | 601 | CHL | O2A-CGA-CBA | 2.77 | 120.61 | 111.91 |
| 28 | J | 101 | BCR | C33-C5-C4 | 2.77 | 118.94 | 113.62 |
| 33 | R | 605 | CHL | C2A-C3A-C4A | -2.77 | 97.39 | 101.87 |
| 32 | H | 204 | LMG | C8-O7-C10 | -2.77 | 110.97 | 117.79 |
| 33 | P | 605 | CHL | CMB-C2B-C3B | 2.77 | 129.86 | 124.68 |
| 32 | 7 | 318 | LMG | O8-C28-C29 | 2.77 | 120.60 | 111.91 |
| 25 | 4 | 313 | CLA | CAA-C2A-C3A | -2.77 | 109.63 | 116.10 |
| 36 | R | 617 | NEX | C39-C29-C30 | -2.77 | 119.04 | 122.92 |
| 33 | R | 607 | CHL | C4-C3-C5 | 2.77 | 119.15 | 115.98 |
| 25 | 5 | 316 | CLA | CMB-C2B-C3B | 2.77 | 129.86 | 124.68 |
| 25 | U | 310 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 28 | 4 | 317 | BCR | C2-C3-C4 | -2.77 | 105.19 | 111.38 |
| 25 | A | 826 | CLA | CMB-C2B-C3B | 2.77 | 129.86 | 124.68 |
| 34 | 5 | 318 | LUT | C10-C11-C12 | -2.77 | 114.58 | 123.22 |
| 33 | T | 601 | CHL | O2A-CGA-CBA | 2.77 | 120.59 | 111.91 |
| 33 | 5 | 317 | CHL | C1D-ND-C4D | 2.77 | 108.30 | 106.33 |
| 25 | 5 | 315 | CLA | O2D-CGD-O1D | -2.77 | 118.43 | 123.84 |
| 34 | 4 | 315 | LUT | C30-C31-C32 | -2.77 | 114.59 | 123.22 |
| 33 | Q | 601 | CHL | O2A-CGA-CBA | 2.76 | 120.58 | 111.91 |
| 25 | S | 303 | CLA | O2D-CGD-O1D | -2.76 | 118.43 | 123.84 |
| 33 | P | 601 | CHL | C3B-C4B-NB | 2.76 | 112.78 | 109.21 |
| 33 | S | 306 | CHL | CHB-C4A-NA | 2.76 | 128.33 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 2 | 307 | CLA | O2D-CGD-O1D | -2.76 | 118.44 | 123.84 |
| 33 | Q | 601 | CHL | C3B-C4B-NB | 2.76 | 112.78 | 109.21 |
| 25 | 6 | 615 | CLA | C1B-CHB-C4A | -2.76 | 124.65 | 130.12 |
| 33 | 5 | 308 | CHL | CAA-CBA-CGA | -2.76 | 105.18 | 113.25 |
| 25 | A | 827 | CLA | O2D-CGD-CBD | 2.76 | 116.17 | 111.27 |
| 33 | Q | 607 | CHL | C1D-CHD-C4C | -2.76 | 120.10 | 126.06 |
| 36 | P | 621 | NEX | C17-C1-C2 | -2.76 | 96.65 | 109.05 |
| 33 | 3 | 306 | CHL | CHC-C1C-NC | 2.76 | 128.39 | 124.20 |
| 33 | P | 605 | CHL | CHB-C4A-NA | 2.76 | 128.33 | 124.51 |
| 25 | B | 801 | CLA | C1B-CHB-C4A | -2.76 | 124.65 | 130.12 |
| 25 | B | 826 | CLA | CHB-C4A-NA | 2.76 | 128.33 | 124.51 |
| 25 | J | 103 | CLA | O2D-CGD-O1D | -2.76 | 118.44 | 123.84 |
| 28 | 4 | 321 | BCR | C38-C26-C25 | -2.76 | 121.43 | 124.53 |
| 25 | A | 839 | CLA | CMB-C2B-C3B | 2.76 | 129.84 | 124.68 |
| 28 | 3 | 317 | BCR | C38-C26-C27 | 2.76 | 118.91 | 113.62 |
| 25 | T | 603 | CLA | O2D-CGD-O1D | -2.76 | 118.45 | 123.84 |
| 25 | 7 | 311 | CLA | O2D-CGD-O1D | -2.76 | 118.45 | 123.84 |
| 25 | L | 206 | CLA | CMB-C2B-C3B | 2.76 | 129.84 | 124.68 |
| 25 | U | 312 | CLA | CMB-C2B-C3B | 2.76 | 129.84 | 124.68 |
| 36 | U | 301 | NEX | C39-C29-C30 | -2.76 | 119.06 | 122.92 |
| 25 | B | 815 | CLA | CHB-C4A-NA | 2.76 | 128.32 | 124.51 |
| 25 | 9 | 304 | CLA | C1B-CHB-C4A | -2.76 | 124.66 | 130.12 |
| 25 | H | 202 | CLA | O2D-CGD-O1D | -2.76 | 118.45 | 123.84 |
| 33 | P | 601 | CHL | O2A-CGA-CBA | 2.76 | 120.56 | 111.91 |
| 25 | A | 810 | CLA | CHB-C4A-NA | 2.76 | 128.32 | 124.51 |
| 25 | F | 802 | CLA | CMB-C2B-C3B | 2.76 | 129.83 | 124.68 |
| 25 | A | 811 | CLA | CHB-C4A-NA | 2.76 | 128.32 | 124.51 |
| 28 | J | 101 | BCR | C21-C20-C19 | -2.75 | 114.62 | 123.22 |
| 25 | B | 805 | CLA | O2D-CGD-O1D | -2.75 | 118.45 | 123.84 |
| 33 | P | 607 | CHL | C4-C3-C5 | 2.75 | 119.13 | 115.98 |
| 25 | 4 | 308 | CLA | CMB-C2B-C3B | 2.75 | 129.83 | 124.68 |
| 25 | T | 602 | CLA | O2D-CGD-O1D | -2.75 | 118.46 | 123.84 |
| 25 | L | 209 | CLA | C1B-CHB-C4A | -2.75 | 124.67 | 130.12 |
| 33 | P | 607 | CHL | C3C-C4C-NC | 2.75 | 113.66 | 110.57 |
| 25 | B | 818 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 25 | P | 604 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 33 | P | 619 | CHL | C4-C3-C5 | 2.75 | 119.13 | 115.98 |
| 28 | 4 | 317 | BCR | C1-C6-C5 | -2.75 | 118.74 | 122.61 |
| 25 | R | 603 | CLA | O2D-CGD-O1D | -2.75 | 118.46 | 123.84 |
| 33 | 4 | 306 | CHL | O2A-CGA-CBA | 2.75 | 120.54 | 111.91 |
| 25 | 9 | 301 | CLA | CHB-C4A-NA | 2.75 | 128.31 | 124.51 |
| 35 | S | 318 | XAT | C10-C11-C12 | -2.75 | 114.64 | 123.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 9 | 301 | CLA | C1B-CHB-C4A | -2.75 | 124.67 | 130.12 |
| 33 | 4 | 314 | CHL | CMB-C2B-C3B | 2.75 | 129.82 | 124.68 |
| 25 | Q | 610 | CLA | O1D-CGD-CBD | 2.75 | 130.11 | 124.48 |
| 32 | J | 102 | LMG | O8-C28-C29 | 2.75 | 120.53 | 111.91 |
| 25 | S | 314 | CLA | CMB-C2B-C3B | 2.75 | 129.82 | 124.68 |
| 33 | P | 619 | CHL | C3C-C4C-NC | 2.75 | 113.65 | 110.57 |
| 28 | J | 101 | BCR | C31-C1-C6 | -2.75 | 105.84 | 110.30 |
| 34 | U | 314 | LUT | C20-C13-C12 | 2.75 | 122.40 | 118.08 |
| 25 | U | 302 | CLA | O2D-CGD-O1D | -2.75 | 118.47 | 123.84 |
| 34 | 4 | 315 | LUT | C31-C30-C29 | -2.75 | 123.39 | 127.31 |
| 28 | 5 | 323 | BCR | C37-C22-C21 | 2.75 | 126.77 | 122.92 |
| 28 | O | 204 | BCR | C8-C7-C6 | -2.74 | 119.49 | 127.20 |
| 25 | 5 | 313 | CLA | CHD-C1D-C2D | 2.74 | 131.24 | 125.48 |
| 33 | U | 307 | CHL | C4A-NA-C1A | -2.74 | 105.47 | 106.71 |
| 25 | B | 814 | CLA | CHB-C4A-NA | 2.74 | 128.31 | 124.51 |
| 25 | 5 | 319 | CLA | CHB-C4A-NA | 2.74 | 128.31 | 124.51 |
| 25 | 3 | 314 | CLA | CHB-C4A-NA | 2.74 | 128.31 | 124.51 |
| 33 | Q | 606 | CHL | CMB-C2B-C3B | 2.74 | 129.81 | 124.68 |
| 36 | U | 316 | NEX | C39-C29-C30 | -2.74 | 119.08 | 122.92 |
| 28 | I | 201 | BCR | C4-C5-C6 | -2.74 | 118.75 | 122.73 |
| 34 | 1 | 615 | LUT | C20-C13-C12 | 2.74 | 122.40 | 118.08 |
| 33 | U | 305 | CHL | CMB-C2B-C3B | 2.74 | 129.80 | 124.68 |
| 25 | A | 806 | CLA | CHB-C4A-NA | 2.74 | 128.30 | 124.51 |
| 25 | O | 203 | CLA | CMB-C2B-C3B | 2.74 | 130.05 | 124.69 |
| 28 | L | 204 | BCR | C3-C4-C5 | -2.74 | 109.19 | 114.08 |
| 25 | A | 822 | CLA | CMB-C2B-C3B | 2.74 | 129.80 | 124.68 |
| 25 | B | 821 | CLA | CMB-C2B-C3B | 2.74 | 129.80 | 124.68 |
| 33 | R | 605 | CHL | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 25 | A | 814 | CLA | CHD-C1D-ND | -2.73 | 121.94 | 124.45 |
| 28 | A | 847 | BCR | C23-C24-C25 | -2.73 | 119.52 | 127.20 |
| 25 | 3 | 314 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 28 | 5 | 320 | BCR | C28-C27-C26 | -2.73 | 109.19 | 114.08 |
| 33 | S | 308 | CHL | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 25 | 4 | 308 | CLA | C1B-CHB-C4A | -2.73 | 124.70 | 130.12 |
| 25 | B | 834 | CLA | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |
| 25 | B | 826 | CLA | O2D-CGD-O1D | -2.73 | 118.50 | 123.84 |
| 25 | 7 | 304 | CLA | O2D-CGD-O1D | -2.73 | 118.50 | 123.84 |
| 36 | P | 621 | NEX | C4-C3-C2 | -2.73 | 105.50 | 110.77 |
| 33 | 9 | 307 | CHL | OMC-CMC-C2C | -2.73 | 119.51 | 125.69 |
| 25 | A | 831 | CLA | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |
| 33 | 8 | 307 | CHL | OMC-CMC-C2C | -2.73 | 119.51 | 125.69 |
| 25 | A | 809 | CLA | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | J | 105 | CLA | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |
| 33 | 1 | 601 | CHL | CHB-C4A-NA | 2.73 | 128.29 | 124.51 |
| 25 | 7 | 306 | CLA | C1-C2-C3 | -2.73 | 122.33 | 126.75 |
| 33 | S | 302 | CHL | OMC-CMC-C2C | -2.73 | 119.52 | 125.69 |
| 25 | A | 837 | CLA | C1B-CHB-C4A | -2.73 | 124.71 | 130.12 |
| 25 | B | 813 | CLA | CHB-C4A-NA | 2.73 | 128.28 | 124.51 |
| 25 | A | 838 | CLA | C1B-CHB-C4A | -2.73 | 124.72 | 130.12 |
| 25 | 1 | 604 | CLA | C1B-CHB-C4A | -2.73 | 124.72 | 130.12 |
| 31 | B | 850 | SQD | O7-S-C6 | 2.73 | 110.18 | 106.94 |
| 28 | L | 208 | BCR | C15-C16-C17 | -2.73 | 117.89 | 123.47 |
| 28 | B | 840 | BCR | C21-C20-C19 | -2.73 | 114.71 | 123.22 |
| 25 | 8 | 303 | CLA | CHB-C4A-NA | 2.73 | 128.28 | 124.51 |
| 33 | P | 605 | CHL | C1D-CHD-C4C | -2.73 | 120.18 | 126.06 |
| 25 | 1 | 612 | CLA | C1-C2-C3 | -2.73 | 121.33 | 126.04 |
| 34 | P | 614 | LUT | C20-C13-C14 | -2.72 | 119.11 | 122.92 |
| 25 | a | 307 | CLA | CMB-C2B-C3B | 2.72 | 129.78 | 124.68 |
| 25 | Q | 604 | CLA | CHB-C4A-NA | 2.72 | 128.28 | 124.51 |
| 25 | K | 204 | CLA | O2D-CGD-O1D | -2.72 | 118.51 | 123.84 |
| 33 | S | 321 | CHL | C3C-C4C-NC | 2.72 | 113.63 | 110.57 |
| 28 | 8 | 318 | BCR | C11-C10-C9 | -2.72 | 123.42 | 127.31 |
| 25 | L | 201 | CLA | CHB-C4A-NA | 2.72 | 128.28 | 124.51 |
| 25 | 2 | 302 | CLA | CMB-C2B-C3B | 2.72 | 129.77 | 124.68 |
| 33 | 9 | 307 | CHL | C1B-CHB-C4A | -2.72 | 124.72 | 130.12 |
| 34 | 1 | 616 | LUT | C11-C10-C9 | -2.72 | 123.42 | 127.31 |
| 28 | A | 845 | BCR | C29-C30-C25 | 2.72 | 114.67 | 110.48 |
| 28 | B | 840 | BCR | C33-C5-C6 | -2.72 | 121.47 | 124.53 |
| 33 | R | 607 | CHL | C3C-C4C-NC | 2.72 | 113.62 | 110.57 |
| 25 | B | 826 | CLA | O2A-CGA-O1A | -2.72 | 116.72 | 123.59 |
| 25 | 8 | 305 | CLA | CMB-C2B-C3B | 2.72 | 129.77 | 124.68 |
| 25 | 6 | 614 | CLA | O2D-CGD-O1D | -2.72 | 118.52 | 123.84 |
| 33 | R | 605 | CHL | CAC-C3C-C4C | 2.72 | 128.34 | 124.81 |
| 33 | T | 605 | CHL | CHC-C1C-NC | 2.72 | 128.33 | 124.20 |
| 25 | 3 | 320 | CLA | O2A-CGA-O1A | -2.72 | 116.73 | 123.59 |
| 34 | a | 316 | LUT | C11-C10-C9 | -2.72 | 123.43 | 127.31 |
| 33 | R | 605 | CHL | C1D-CHD-C4C | -2.72 | 120.19 | 126.06 |
| 34 | 9 | 312 | LUT | C8-C7-C6 | -2.72 | 119.56 | 127.20 |
| 25 | 3 | 301 | CLA | CHB-C4A-NA | 2.72 | 128.27 | 124.51 |
| 25 | Q | 611 | CLA | CMB-C2B-C3B | 2.72 | 129.77 | 124.68 |
| 25 | 7 | 307 | CLA | CHB-C4A-NA | 2.72 | 128.27 | 124.51 |
| 33 | R | 608 | CHL | CHC-C1C-NC | 2.72 | 128.33 | 124.20 |
| 33 | R | 605 | CHL | C4A-NA-C1A | -2.72 | 105.48 | 106.71 |
| 36 | P | 621 | NEX | C38-C25-C24 | 2.72 | 117.34 | 114.28 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 812 | CLA | CHB-C4A-NA | 2.72 | 128.27 | 124.51 |
| 25 | A | 811 | CLA | CMB-C2B-C3B | 2.72 | 129.76 | 124.68 |
| 34 | P | 614 | LUT | C18-C5-C4 | 2.72 | 119.39 | 114.36 |
| 28 | 7 | 316 | BCR | C11-C10-C9 | -2.72 | 123.43 | 127.31 |
| 34 | 7 | 314 | LUT | C16-C1-C6 | -2.72 | 105.89 | 110.30 |
| 25 | B | 826 | CLA | C1B-CHB-C4A | -2.72 | 124.74 | 130.12 |
| 33 | 9 | 307 | CHL | CHC-C1C-NC | 2.72 | 128.32 | 124.20 |
| 25 | 7 | 309 | CLA | O2D-CGD-O1D | -2.72 | 118.53 | 123.84 |
| 33 | 8 | 307 | CHL | C3C-C4C-NC | 2.72 | 113.62 | 110.57 |
| 25 | H | 205 | CLA | C1B-CHB-C4A | -2.71 | 124.74 | 130.12 |
| 25 | 8 | 305 | CLA | O2D-CGD-O1D | -2.71 | 118.53 | 123.84 |
| 34 | 1 | 616 | LUT | C3-C4-C5 | -2.71 | 106.45 | 111.85 |
| 25 | P | 603 | CLA | O2D-CGD-O1D | -2.71 | 118.53 | 123.84 |
| 34 | S | 316 | LUT | C31-C30-C29 | -2.71 | 123.44 | 127.31 |
| 36 | P | 621 | NEX | C31-C30-C29 | -2.71 | 123.44 | 127.31 |
| 25 | A | 833 | CLA | O2A-CGA-O1A | -2.71 | 116.75 | 123.59 |
| 25 | 6 | 610 | CLA | C1B-CHB-C4A | -2.71 | 124.75 | 130.12 |
| 25 | a | 310 | CLA | O2D-CGD-O1D | -2.71 | 118.54 | 123.84 |
| 33 | P | 622 | CHL | CHC-C1C-NC | 2.71 | 128.32 | 124.20 |
| 25 | A | 823 | CLA | CHB-C4A-NA | 2.71 | 128.26 | 124.51 |
| 25 | U | 312 | CLA | CHB-C4A-NA | 2.71 | 128.26 | 124.51 |
| 33 | S | 309 | CHL | CHC-C1C-NC | 2.71 | 128.31 | 124.20 |
| 36 | P | 621 | NEX | C15-C35-C34 | -2.71 | 117.92 | 123.47 |
| 25 | 7 | 306 | CLA | CHB-C4A-NA | 2.71 | 128.26 | 124.51 |
| 25 | H | 205 | CLA | CAA-C2A-C1A | -2.71 | 106.14 | 112.14 |
| 30 | B | 848 | DGD | O1G-C1A-C2A | 2.71 | 120.41 | 111.91 |
| 25 | A | 805 | CLA | O2D-CGD-O1D | -2.71 | 118.54 | 123.84 |
| 25 | P | 610 | CLA | O2D-CGD-O1D | -2.71 | 118.54 | 123.84 |
| 25 | A | 808 | CLA | CHB-C4A-NA | 2.71 | 128.26 | 124.51 |
| 28 | A | 845 | BCR | C10-C11-C12 | -2.71 | 114.77 | 123.22 |
| 27 | A | 843 | LHG | C5-O7-C7 | -2.71 | 111.12 | 117.79 |
| 33 | 4 | 306 | CHL | C1B-CHB-C4A | -2.71 | 124.75 | 130.12 |
| 26 | A | 841 | PQN | C11-C12-C13 | -2.71 | 122.28 | 126.79 |
| 31 | B | 850 | SQD | O9-S-C6 | 2.71 | 110.16 | 106.94 |
| 25 | R | 613 | CLA | O2D-CGD-O1D | -2.71 | 118.55 | 123.84 |
| 35 | S | 318 | XAT | C35-C34-C33 | -2.71 | 123.45 | 127.31 |
| 34 | S | 316 | LUT | C22-C23-C24 | 2.71 | 114.82 | 111.74 |
| 25 | 1 | 611 | CLA | CMB-C2B-C3B | 2.70 | 129.74 | 124.68 |
| 33 | P | 608 | CHL | CHC-C1C-NC | 2.70 | 128.31 | 124.20 |
| 25 | 2 | 310 | CLA | CMB-C2B-C3B | 2.70 | 129.74 | 124.68 |
| 25 | 8 | 310 | CLA | C1B-CHB-C4A | -2.70 | 124.76 | 130.12 |
| 28 | F | 803 | BCR | C23-C24-C25 | -2.70 | 119.61 | 127.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 9 | 309 | CLA | CHB-C4A-NA | 2.70 | 128.25 | 124.51 |
| 25 | B | 824 | CLA | CMB-C2B-C3B | 2.70 | 129.74 | 124.68 |
| 25 | 9 | 304 | CLA | CMB-C2B-C3B | 2.70 | 129.74 | 124.68 |
| 34 | 1 | 616 | LUT | C4-C5-C6 | -2.70 | 114.82 | 120.85 |
| 34 | 9 | 312 | LUT | C39-C29-C28 | 2.70 | 122.33 | 118.08 |
| 25 | Q | 618 | CLA | C1B-CHB-C4A | -2.70 | 124.77 | 130.12 |
| 25 | 6 | 610 | CLA | CHB-C4A-NA | 2.70 | 128.25 | 124.51 |
| 32 | J | 104 | LMG | O8-C28-C29 | 2.70 | 120.39 | 111.91 |
| 25 | A | 835 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 25 | 9 | 309 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 25 | B | 820 | CLA | CMB-C2B-C3B | 2.70 | 129.73 | 124.68 |
| 25 | 4 | 312 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 25 | 2 | 306 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 27 | 5 | 321 | LHG | O8-C23-C24 | 2.70 | 120.38 | 111.91 |
| 28 | 3 | 319 | BCR | C16-C15-C14 | -2.70 | 117.95 | 123.47 |
| 28 | L | 204 | BCR | C30-C25-C24 | 2.70 | 123.41 | 115.78 |
| 25 | B | 804 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 33 | S | 321 | CHL | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 25 | B | 818 | CLA | C1-C2-C3 | -2.70 | 121.38 | 126.04 |
| 28 | A | 854 | BCR | C7-C8-C9 | -2.70 | 122.16 | 126.23 |
| 25 | B | 827 | CLA | CMB-C2B-C3B | 2.70 | 129.72 | 124.68 |
| 25 | a | 310 | CLA | CMB-C2B-C3B | 2.70 | 129.72 | 124.68 |
| 27 | A | 844 | LHG | O8-C23-C24 | 2.69 | 120.36 | 111.91 |
| 25 | A | 816 | CLA | CHB-C4A-NA | 2.69 | 128.24 | 124.51 |
| 25 | 5 | 315 | CLA | CHB-C4A-NA | 2.69 | 128.24 | 124.51 |
| 25 | R | 610 | CLA | O2D-CGD-O1D | -2.69 | 118.57 | 123.84 |
| 25 | O | 201 | CLA | CMB-C2B-C3B | 2.69 | 129.72 | 124.68 |
| 25 | A | 801 | CLA | CBA-CAA-C2A | -2.69 | 105.92 | 113.86 |
| 33 | Q | 607 | CHL | CHC-C1C-NC | 2.69 | 128.29 | 124.20 |
| 34 | S | 316 | LUT | C35-C15-C14 | -2.69 | 117.96 | 123.47 |
| 36 | R | 617 | NEX | C24-C23-C22 | -2.69 | 105.57 | 110.77 |
| 25 | 8 | 312 | CLA | CHB-C4A-NA | 2.69 | 128.23 | 124.51 |
| 25 | A | 832 | CLA | O2D-CGD-O1D | -2.69 | 118.58 | 123.84 |
| 25 | 3 | 312 | CLA | C1B-CHB-C4A | -2.69 | 124.79 | 130.12 |
| 33 | P | 622 | CHL | CHD-C4C-NC | 2.69 | 128.44 | 124.20 |
| 33 | R | 606 | CHL | CHC-C1C-NC | 2.69 | 128.28 | 124.20 |
| 25 | B | 838 | CLA | O2D-CGD-O1D | -2.69 | 118.58 | 123.84 |
| 25 | 1 | 613 | CLA | C1B-CHB-C4A | -2.69 | 124.79 | 130.12 |
| 33 | Q | 605 | CHL | C2A-C3A-C4A | -2.69 | 98.35 | 101.78 |
| 28 | B | 842 | BCR | C8-C7-C6 | -2.69 | 119.65 | 127.20 |
| 25 | B | 818 | CLA | CMB-C2B-C3B | 2.69 | 129.71 | 124.68 |
| 25 | 7 | 302 | CLA | CMB-C2B-C3B | 2.69 | 129.71 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 6 | 608 | CHL | C3B-C4B-NB | 2.69 | 112.69 | 109.21 |
| 25 | A | 805 | CLA | C1B-CHB-C4A | -2.69 | 124.79 | 130.12 |
| 33 | 6 | 608 | CHL | CHB-C4A-NA | 2.69 | 128.23 | 124.51 |
| 25 | a | 313 | CLA | O2D-CGD-O1D | -2.69 | 118.59 | 123.84 |
| 25 | A | 842 | CLA | CMC-C2C-C1C | -2.69 | 120.95 | 125.04 |
| 33 | 5 | 307 | CHL | C3C-C4C-NC | 2.68 | 113.58 | 110.57 |
| 25 | 6 | 616 | CLA | CMB-C2B-C3B | 2.68 | 129.70 | 124.68 |
| 25 | A | 813 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 25 | 4 | 302 | CLA | O2D-CGD-O1D | -2.68 | 118.59 | 123.84 |
| 33 | U | 308 | CHL | C3C-C4C-NC | 2.68 | 113.58 | 110.57 |
| 32 | J | 107 | LMG | C1-C2-C3 | 2.68 | 115.58 | 110.00 |
| 25 | B | 811 | CLA | CMB-C2B-C3B | 2.68 | 129.70 | 124.68 |
| 25 | K | 203 | CLA | CMB-C2B-C3B | 2.68 | 129.70 | 124.68 |
| 28 | J | 101 | BCR | C38-C26-C27 | 2.68 | 118.77 | 113.62 |
| 28 | L | 208 | BCR | C33-C5-C6 | -2.68 | 121.52 | 124.53 |
| 36 | U | 316 | NEX | C24-C23-C22 | -2.68 | 105.59 | 110.77 |
| 25 | 9 | 302 | CLA | C1B-CHB-C4A | -2.68 | 124.81 | 130.12 |
| 25 | L | 201 | CLA | CMB-C2B-C3B | 2.68 | 129.69 | 124.68 |
| 25 | P | 604 | CLA | O2D-CGD-O1D | -2.68 | 118.60 | 123.84 |
| 25 | 5 | 316 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 32 | 7 | 319 | LMG | O1-C1-C2 | 2.68 | 112.49 | 108.30 |
| 28 | L | 207 | BCR | C3-C4-C5 | -2.68 | 109.29 | 114.08 |
| 28 | B | 840 | BCR | C16-C15-C14 | -2.68 | 117.98 | 123.47 |
| 25 | A | 820 | CLA | C1B-CHB-C4A | -2.68 | 124.81 | 130.12 |
| 25 | B | 828 | CLA | CMB-C2B-C3B | 2.68 | 129.69 | 124.68 |
| 28 | J | 106 | BCR | C33-C5-C4 | 2.68 | 118.76 | 113.62 |
| 34 | 8 | 316 | LUT | C30-C31-C32 | -2.68 | 114.86 | 123.22 |
| 25 | A | 807 | CLA | CHB-C4A-NA | 2.68 | 128.22 | 124.51 |
| 25 | 2 | 314 | CLA | CMB-C2B-C3B | 2.68 | 129.69 | 124.68 |
| 25 | A | 804 | CLA | C1B-CHB-C4A | -2.68 | 124.82 | 130.12 |
| 25 | a | 311 | CLA | C1-C2-C3 | -2.68 | 121.41 | 126.04 |
| 25 | A | 823 | CLA | C1B-CHB-C4A | -2.68 | 124.82 | 130.12 |
| 34 | 4 | 316 | LUT | C10-C11-C12 | -2.68 | 114.87 | 123.22 |
| 25 | H | 201 | CLA | O2D-CGD-O1D | -2.67 | 118.61 | 123.84 |
| 34 | 9 | 312 | LUT | C30-C31-C32 | -2.67 | 114.87 | 123.22 |
| 25 | 8 | 314 | CLA | CMB-C2B-C1B | -2.67 | 124.36 | 128.46 |
| 28 | B | 845 | BCR | C15-C14-C13 | -2.67 | 123.50 | 127.31 |
| 25 | T | 609 | CLA | C1B-CHB-C4A | -2.67 | 124.83 | 130.12 |
| 25 | 2 | 303 | CLA | O2D-CGD-O1D | -2.67 | 118.61 | 123.84 |
| 25 | A | 822 | CLA | O2D-CGD-CBD | 2.67 | 116.02 | 111.27 |
| 25 | A | 834 | CLA | CHB-C4A-NA | 2.67 | 128.21 | 124.51 |
| 25 | 2 | 302 | CLA | CHB-C4A-NA | 2.67 | 128.21 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | T | 612 | CLA | C1B-CHB-C4A | -2.67 | 124.83 | 130.12 |
| 25 | 8 | 306 | CLA | O2D-CGD-O1D | -2.67 | 118.62 | 123.84 |
| 25 | O | 202 | CLA | CBD-CHA-C1A | 2.67 | 131.65 | 128.50 |
| 25 | 7 | 308 | CLA | O2D-CGD-O1D | -2.67 | 118.62 | 123.84 |
| 25 | 6 | 615 | CLA | CHB-C4A-NA | 2.67 | 128.20 | 124.51 |
| 25 | 9 | 309 | CLA | C1-C2-C3 | -2.67 | 121.43 | 126.04 |
| 25 | K | 201 | CLA | CMB-C2B-C3B | 2.67 | 129.67 | 124.68 |
| 25 | 3 | 303 | CLA | O2A-CGA-O1A | -2.67 | 116.86 | 123.59 |
| 33 | Q | 608 | CHL | CHD-C1D-ND | -2.67 | 122.00 | 124.45 |
| 25 | 9 | 310 | CLA | CHB-C4A-NA | 2.67 | 128.20 | 124.51 |
| 25 | 2 | 307 | CLA | CHB-C4A-NA | 2.67 | 128.20 | 124.51 |
| 25 | 6 | 610 | CLA | CMB-C2B-C1B | -2.67 | 124.37 | 128.46 |
| 34 | 2 | 316 | LUT | C30-C31-C32 | -2.67 | 114.90 | 123.22 |
| 25 | A | 842 | CLA | C1-C2-C3 | -2.67 | 121.43 | 126.04 |
| 25 | A | 837 | CLA | CHB-C4A-NA | 2.66 | 128.20 | 124.51 |
| 25 | 6 | 614 | CLA | CHB-C4A-NA | 2.66 | 128.20 | 124.51 |
| 25 | T | 608 | CLA | C1B-CHB-C4A | -2.66 | 124.84 | 130.12 |
| 25 | P | 612 | CLA | C1-C2-C3 | 2.66 | 130.65 | 126.04 |
| 33 | R | 601 | CHL | CHD-C4C-NC | 2.66 | 128.40 | 124.20 |
| 34 | P | 615 | LUT | C3-C4-C5 | -2.66 | 106.55 | 111.85 |
| 25 | A | 803 | CLA | CMB-C2B-C3B | 2.66 | 129.66 | 124.68 |
| 25 | 5 | 314 | CLA | O2D-CGD-O1D | -2.66 | 118.63 | 123.84 |
| 25 | S | 315 | CLA | CHB-C4A-NA | 2.66 | 128.19 | 124.51 |
| 34 | a | 314 | LUT | C11-C10-C9 | -2.66 | 123.51 | 127.31 |
| 25 | J | 103 | CLA | C1B-CHB-C4A | -2.66 | 124.84 | 130.12 |
| 33 | R | 607 | CHL | CMB-C2B-C3B | 2.66 | 129.66 | 124.68 |
| 33 | U | 309 | CHL | CAC-C3C-C4C | 2.66 | 128.26 | 124.81 |
| 33 | T | 604 | CHL | CMB-C2B-C3B | 2.66 | 129.66 | 124.68 |
| 25 | 6 | 614 | CLA | C1B-CHB-C4A | -2.66 | 124.85 | 130.12 |
| 33 | P | 622 | CHL | O2A-CGA-CBA | 2.66 | 120.25 | 111.91 |
| 25 | A | 806 | CLA | C1B-CHB-C4A | -2.66 | 124.85 | 130.12 |
| 28 | 4 | 317 | BCR | C21-C20-C19 | -2.66 | 114.92 | 123.22 |
| 33 | U | 308 | CHL | CMB-C2B-C3B | 2.66 | 129.65 | 124.68 |
| 25 | B | 807 | CLA | O2A-CGA-O1A | -2.66 | 116.89 | 123.59 |
| 33 | 7 | 305 | CHL | C4-C3-C5 | 2.66 | 119.74 | 115.27 |
| 25 | O | 202 | CLA | CMB-C2B-C3B | 2.66 | 129.65 | 124.68 |
| 25 | 8 | 308 | CLA | C1-C2-C3 | -2.66 | 122.45 | 126.75 |
| 33 | P | 619 | CHL | O2D-CGD-O1D | -2.66 | 118.65 | 123.84 |
| 34 | 1 | 616 | LUT | C20-C13-C12 | 2.66 | 122.26 | 118.08 |
| 25 | 5 | 319 | CLA | C1B-CHB-C4A | -2.66 | 124.86 | 130.12 |
| 25 | 3 | 303 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 25 | a | 312 | CLA | O2D-CGD-O1D | -2.65 | 118.65 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 823 | CLA | C1B-CHB-C4A | -2.65 | 124.86 | 130.12 |
| 25 | 3 | 314 | CLA | C1B-CHB-C4A | -2.65 | 124.86 | 130.12 |
| 26 | A | 841 | PQN | C2M-C2-C3 | -2.65 | 120.07 | 124.40 |
| 25 | A | 842 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 28 | A | 846 | BCR | C33-C5-C4 | 2.65 | 118.71 | 113.62 |
| 28 | J | 106 | BCR | C4-C5-C6 | -2.65 | 118.88 | 122.73 |
| 25 | A | 827 | CLA | C1-C2-C3 | -2.65 | 121.45 | 126.04 |
| 25 | A | 811 | CLA | C1B-CHB-C4A | -2.65 | 124.86 | 130.12 |
| 25 | 5 | 304 | CLA | C1B-CHB-C4A | -2.65 | 124.86 | 130.12 |
| 33 | 6 | 607 | CHL | C1-C2-C3 | -2.65 | 121.46 | 126.04 |
| 25 | 1 | 613 | CLA | CMB-C2B-C3B | 2.65 | 129.64 | 124.68 |
| 25 | U | 304 | CLA | O2D-CGD-O1D | -2.65 | 118.65 | 123.84 |
| 35 | P | 616 | XAT | C35-C15-C14 | -2.65 | 118.04 | 123.47 |
| 25 | A | 810 | CLA | CMB-C2B-C1B | -2.65 | 124.39 | 128.46 |
| 25 | 8 | 311 | CLA | O2D-CGD-CBD | 2.65 | 115.98 | 111.27 |
| 25 | A | 805 | CLA | CMB-C2B-C3B | 2.65 | 129.64 | 124.68 |
| 25 | 1 | 614 | CLA | CHB-C4A-NA | 2.65 | 128.18 | 124.51 |
| 25 | Q | 603 | CLA | O2D-CGD-O1D | -2.65 | 118.66 | 123.84 |
| 25 | Q | 609 | CLA | C1B-CHB-C4A | -2.65 | 124.87 | 130.12 |
| 28 | 3 | 318 | BCR | C1-C6-C7 | 2.65 | 123.27 | 115.78 |
| 36 | U | 301 | NEX | C24-C23-C22 | -2.65 | 105.66 | 110.77 |
| 34 | 3 | 316 | LUT | C35-C34-C33 | -2.65 | 123.53 | 127.31 |
| 28 | 3 | 318 | BCR | C30-C25-C26 | -2.65 | 118.88 | 122.61 |
| 25 | 7 | 303 | CLA | CHB-C4A-NA | 2.65 | 128.17 | 124.51 |
| 33 | P | 607 | CHL | CMB-C2B-C3B | 2.65 | 129.63 | 124.68 |
| 25 | S | 315 | CLA | C1B-CHB-C4A | -2.65 | 124.88 | 130.12 |
| 25 | 2 | 304 | CLA | CHB-C4A-NA | 2.65 | 128.17 | 124.51 |
| 33 | U | 308 | CHL | CHC-C1C-NC | 2.65 | 128.22 | 124.20 |
| 25 | P | 611 | CLA | CED-O2D-CGD | 2.65 | 121.92 | 115.94 |
| 25 | Q | 612 | CLA | O2D-CGD-O1D | -2.65 | 118.67 | 123.84 |
| 25 | G | 201 | CLA | CHB-C4A-NA | 2.65 | 128.17 | 124.51 |
| 28 | G | 203 | BCR | C33-C5-C4 | 2.64 | 118.69 | 113.62 |
| 33 | P | 601 | CHL | CHD-C4C-NC | 2.64 | 128.37 | 124.20 |
| 25 | 5 | 314 | CLA | C1B-CHB-C4A | -2.64 | 124.88 | 130.12 |
| 25 | B | 831 | CLA | CHB-C4A-NA | 2.64 | 128.17 | 124.51 |
| 33 | P | 619 | CHL | CMB-C2B-C3B | 2.64 | 129.62 | 124.68 |
| 25 | P | 603 | CLA | C1B-CHB-C4A | -2.64 | 124.88 | 130.12 |
| 34 | 4 | 316 | LUT | C21-C26-C27 | -2.64 | 109.36 | 112.70 |
| 25 | 3 | 302 | CLA | CMB-C2B-C3B | 2.64 | 129.62 | 124.68 |
| 34 | U | 314 | LUT | C18-C5-C4 | 2.64 | 119.25 | 114.36 |
| 28 | J | 101 | BCR | C35-C13-C12 | 2.64 | 122.24 | 118.08 |
| 34 | 4 | 316 | LUT | C3-C4-C5 | -2.64 | 106.59 | 111.85 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | P | 621 | NEX | C17-C1-C6 | -2.64 | 108.11 | 110.47 |
| 33 | 1 | 601 | CHL | O2D-CGD-O1D | -2.64 | 118.68 | 123.84 |
| 28 | G | 203 | BCR | C28-C27-C26 | -2.64 | 109.37 | 114.08 |
| 25 | 3 | 301 | CLA | O2D-CGD-O1D | -2.64 | 118.68 | 123.84 |
| 25 | B | 838 | CLA | CHB-C4A-NA | 2.64 | 128.16 | 124.51 |
| 25 | A | 802 | CLA | O2D-CGD-O1D | -2.64 | 118.68 | 123.84 |
| 34 | P | 614 | LUT | C20-C13-C12 | 2.64 | 122.23 | 118.08 |
| 33 | T | 604 | CHL | CAA-CBA-CGA | -2.64 | 105.55 | 113.25 |
| 33 | 4 | 305 | CHL | C3B-C4B-NB | 2.64 | 112.62 | 109.21 |
| 25 | R | 612 | CLA | C1-C2-C3 | 2.64 | 130.60 | 126.04 |
| 28 | 4 | 321 | BCR | C35-C13-C14 | -2.64 | 119.23 | 122.92 |
| 25 | a | 303 | CLA | CAA-C2A-C3A | -2.64 | 105.56 | 112.78 |
| 36 | P | 621 | NEX | C20-C13-C14 | -2.64 | 119.23 | 122.92 |
| 25 | 8 | 304 | CLA | O2D-CGD-O1D | -2.64 | 118.69 | 123.84 |
| 25 | U | 304 | CLA | CHB-C4A-NA | 2.64 | 128.16 | 124.51 |
| 34 | 1 | 615 | LUT | C16-C1-C6 | -2.64 | 106.03 | 110.30 |
| 25 | 7 | 301 | CLA | CMB-C2B-C3B | 2.63 | 129.61 | 124.68 |
| 25 | 5 | 303 | CLA | CHB-C4A-NA | 2.63 | 128.16 | 124.51 |
| 25 | 9 | 305 | CLA | CMB-C2B-C1B | -2.63 | 124.42 | 128.46 |
| 33 | Q | 601 | CHL | CHD-C4C-NC | 2.63 | 128.35 | 124.20 |
| 33 | 5 | 308 | CHL | CHD-C1D-ND | -2.63 | 122.03 | 124.45 |
| 30 | B | 848 | DGD | C6E-C5E-C4E | -2.63 | 106.84 | 113.00 |
| 33 | P | 607 | CHL | O2D-CGD-O1D | -2.63 | 118.69 | 123.84 |
| 25 | 6 | 613 | CLA | C1-C2-C3 | -2.63 | 121.49 | 126.04 |
| 25 | Q | 612 | CLA | CHD-C1D-ND | -2.63 | 122.04 | 124.45 |
| 34 | 8 | 317 | LUT | C10-C11-C12 | -2.63 | 115.01 | 123.22 |
| 25 | 1 | 614 | CLA | CMB-C2B-C3B | 2.63 | 129.60 | 124.68 |
| 25 | A | 822 | CLA | C1B-CHB-C4A | -2.63 | 124.91 | 130.12 |
| 25 | 9 | 302 | CLA | O2D-CGD-O1D | -2.63 | 118.70 | 123.84 |
| 33 | P | 609 | CHL | CHD-C1D-ND | -2.63 | 122.04 | 124.45 |
| 33 | 5 | 317 | CHL | CMB-C2B-C3B | 2.63 | 129.59 | 124.68 |
| 25 | 3 | 304 | CLA | O2D-CGD-O1D | -2.63 | 118.70 | 123.84 |
| 25 | 3 | 301 | CLA | CMB-C2B-C3B | 2.63 | 129.59 | 124.68 |
| 25 | 9 | 308 | CLA | CHB-C4A-NA | 2.63 | 128.14 | 124.51 |
| 34 | 9 | 312 | LUT | C18-C5-C6 | -2.63 | 121.58 | 124.53 |
| 35 | T | 615 | XAT | C15-C35-C34 | -2.63 | 118.09 | 123.47 |
| 25 | B | 827 | CLA | O2D-CGD-O1D | -2.62 | 118.71 | 123.84 |
| 35 | P | 616 | XAT | C24-C23-C22 | -2.62 | 105.70 | 110.77 |
| 25 | B | 821 | CLA | O2D-CGD-O1D | -2.62 | 118.71 | 123.84 |
| 34 | 7 | 314 | LUT | C8-C7-C6 | -2.62 | 119.83 | 127.20 |
| 25 | U | 312 | CLA | O2D-CGD-O1D | -2.62 | 118.71 | 123.84 |
| 33 | 6 | 608 | CHL | CMB-C2B-C3B | 2.62 | 129.59 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | 3 | 319 | BCR | C34-C9-C10 | -2.62 | 119.25 | 122.92 |
| 25 | Q | 613 | CLA | O2A-CGA-O1A | -2.62 | 116.97 | 123.59 |
| 25 | a | 301 | CLA | C1B-CHB-C4A | -2.62 | 124.92 | 130.12 |
| 25 | G | 201 | CLA | C1-C2-C3 | -2.62 | 122.51 | 126.75 |
| 25 | K | 201 | CLA | CHB-C4A-NA | 2.62 | 128.14 | 124.51 |
| 34 | 4 | 315 | LUT | C18-C5-C4 | 2.62 | 119.21 | 114.36 |
| 25 | H | 202 | CLA | CMA-C3A-C2A | -2.62 | 109.98 | 116.10 |
| 33 | 7 | 305 | CHL | O2A-CGA-CBA | 2.62 | 120.14 | 111.91 |
| 32 | 4 | 320 | LMG | C3-C4-C5 | 2.62 | 114.92 | 110.24 |
| 27 | Q | 617 | LHG | O8-C23-C24 | 2.62 | 120.14 | 111.91 |
| 34 | 3 | 315 | LUT | C39-C29-C28 | 2.62 | 122.21 | 118.08 |
| 25 | 3 | 320 | CLA | C1B-CHB-C4A | -2.62 | 124.92 | 130.12 |
| 25 | 9 | 304 | CLA | CHB-C4A-NA | 2.62 | 128.14 | 124.51 |
| 33 | 3 | 306 | CHL | CHB-C4A-NA | 2.62 | 128.14 | 124.51 |
| 25 | Q | 610 | CLA | CED-O2D-CGD | 2.62 | 121.86 | 115.94 |
| 25 | B | 811 | CLA | C1B-CHB-C4A | -2.62 | 124.93 | 130.12 |
| 33 | 5 | 317 | CHL | CHC-C1C-NC | 2.62 | 128.18 | 124.20 |
| 28 | B | 851 | BCR | C38-C26-C27 | 2.62 | 118.65 | 113.62 |
| 33 | 7 | 305 | CHL | C1B-CHB-C4A | -2.62 | 124.93 | 130.12 |
| 34 | a | 315 | LUT | C4-C5-C6 | -2.62 | 115.01 | 120.85 |
| 28 | L | 204 | BCR | C34-C9-C10 | -2.62 | 119.26 | 122.92 |
| 34 | T | 614 | LUT | C19-C9-C8 | 2.62 | 122.20 | 118.08 |
| 33 | 6 | 617 | CHL | C3C-C4C-NC | 2.62 | 113.51 | 110.57 |
| 25 | A | 839 | CLA | C1B-CHB-C4A | -2.62 | 124.93 | 130.12 |
| 33 | R | 609 | CHL | CHD-C1D-ND | -2.62 | 122.05 | 124.45 |
| 25 | R | 611 | CLA | C1B-CHB-C4A | -2.62 | 124.94 | 130.12 |
| 28 | A | 846 | BCR | C37-C22-C21 | -2.62 | 119.26 | 122.92 |
| 25 | A | 824 | CLA | O2A-CGA-O1A | -2.62 | 116.99 | 123.59 |
| 28 | 3 | 317 | BCR | C33-C5-C4 | 2.62 | 118.64 | 113.62 |
| 33 | R | 607 | CHL | O2D-CGD-O1D | -2.61 | 118.73 | 123.84 |
| 25 | A | 826 | CLA | C1B-CHB-C4A | -2.61 | 124.94 | 130.12 |
| 25 | 2 | 302 | CLA | C1B-CHB-C4A | -2.61 | 124.94 | 130.12 |
| 28 | O | 205 | BCR | C38-C26-C27 | 2.61 | 118.64 | 113.62 |
| 25 | H | 202 | CLA | CMB-C2B-C3B | 2.61 | 129.57 | 124.68 |
| 25 | 5 | 309 | CLA | C1B-CHB-C4A | -2.61 | 124.94 | 130.12 |
| 25 | 3 | 305 | CLA | CHB-C4A-NA | 2.61 | 128.12 | 124.51 |
| 28 | B | 842 | BCR | C16-C15-C14 | -2.61 | 118.12 | 123.47 |
| 27 | 4 | 318 | LHG | C5-O7-C7 | -2.61 | 111.36 | 117.79 |
| 25 | 2 | 304 | CLA | O2D-CGD-O1D | -2.61 | 118.73 | 123.84 |
| 25 | A | 809 | CLA | C1B-CHB-C4A | -2.61 | 124.94 | 130.12 |
| 33 | P | 622 | CHL | CMB-C2B-C3B | 2.61 | 129.56 | 124.68 |
| 33 | S | 310 | CHL | CMB-C2B-C3B | 2.61 | 129.56 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | R | 614 | CLA | CHB-C4A-NA | 2.61 | 128.12 | 124.51 |
| 25 | S | 313 | CLA | CHB-C4A-NA | 2.61 | 128.12 | 124.51 |
| 25 | T | 609 | CLA | C1-C2-C3 | -2.61 | 121.53 | 126.04 |
| 25 | A | 821 | CLA | CMB-C2B-C3B | 2.61 | 129.56 | 124.68 |
| 25 | A | 814 | CLA | CHB-C4A-NA | 2.61 | 128.12 | 124.51 |
| 25 | P | 604 | CLA | CMB-C2B-C3B | 2.61 | 129.56 | 124.68 |
| 28 | J | 101 | BCR | C23-C24-C25 | -2.61 | 119.88 | 127.20 |
| 25 | B | 807 | CLA | C1B-CHB-C4A | -2.61 | 124.95 | 130.12 |
| 34 | 3 | 316 | LUT | C10-C11-C12 | -2.61 | 115.08 | 123.22 |
| 35 | S | 318 | XAT | C25-C24-C23 | 2.61 | 117.91 | 112.75 |
| 25 | 6 | 601 | CLA | O2D-CGD-O1D | -2.61 | 118.74 | 123.84 |
| 30 | B | 848 | DGD | O5D-C6D-C5D | 2.61 | 113.87 | 109.05 |
| 25 | Q | 609 | CLA | O2D-CGD-O1D | -2.61 | 118.74 | 123.84 |
| 25 | 8 | 309 | CLA | O2D-CGD-O1D | -2.61 | 118.74 | 123.84 |
| 25 | T | 603 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 34 | 5 | 322 | LUT | C8-C7-C6 | -2.60 | 119.89 | 127.20 |
| 28 | L | 203 | BCR | C16-C17-C18 | -2.60 | 123.59 | 127.31 |
| 25 | A | 832 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 25 | 5 | 309 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 28 | 5 | 320 | BCR | C8-C7-C6 | -2.60 | 119.89 | 127.20 |
| 34 | 9 | 313 | LUT | C31-C30-C29 | -2.60 | 123.59 | 127.31 |
| 33 | P | 606 | CHL | CHC-C1C-NC | 2.60 | 128.15 | 124.20 |
| 33 | R | 608 | CHL | C3C-C4C-NC | 2.60 | 113.49 | 110.57 |
| 25 | 6 | 620 | CLA | C1B-CHB-C4A | -2.60 | 124.97 | 130.12 |
| 34 | R | 616 | LUT | C19-C9-C8 | 2.60 | 122.17 | 118.08 |
| 33 | 6 | 607 | CHL | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 25 | B | 822 | CLA | C1B-CHB-C4A | -2.60 | 124.97 | 130.12 |
| 25 | 3 | 302 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 25 | a | 308 | CLA | CHC-C1C-NC | 2.60 | 128.14 | 124.20 |
| 30 | B | 848 | DGD | O6E-C1E-C2E | 2.60 | 115.85 | 110.35 |
| 34 | U | 314 | LUT | C3-C4-C5 | -2.60 | 106.68 | 111.85 |
| 33 | 4 | 304 | CHL | CHC-C1C-NC | 2.60 | 128.14 | 124.20 |
| 25 | 3 | 307 | CLA | C1-C2-C3 | -2.60 | 122.55 | 126.75 |
| 28 | B | 840 | BCR | C20-C21-C22 | -2.60 | 123.60 | 127.31 |
| 25 | F | 802 | CLA | C1B-CHB-C4A | -2.60 | 124.97 | 130.12 |
| 28 | L | 203 | BCR | C10-C11-C12 | -2.60 | 115.11 | 123.22 |
| 28 | B | 851 | BCR | C36-C18-C17 | -2.60 | 119.29 | 122.92 |
| 27 | 6 | 618 | LHG | O8-C23-C24 | 2.60 | 120.06 | 111.91 |
| 25 | 2 | 313 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 25 | a | 306 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 28 | 6 | 621 | BCR | C1-C6-C7 | 2.60 | 123.12 | 115.78 |
| 25 | H | 202 | CLA | C1B-CHB-C4A | -2.60 | 124.98 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | L | 205 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 25 | 4 | 302 | CLA | C1B-CHB-C4A | -2.60 | 124.98 | 130.12 |
| 25 | S | 305 | CLA | C1-C2-C3 | -2.60 | 122.55 | 126.75 |
| 25 | P | 604 | CLA | C1-C2-C3 | -2.59 | 122.55 | 126.75 |
| 25 | Q | 618 | CLA | C2A-C3A-C4A | -2.59 | 98.98 | 103.59 |
| 25 | B | 835 | CLA | O2A-CGA-O1A | -2.59 | 117.05 | 123.59 |
| 33 | 8 | 307 | CHL | C4-C3-C5 | 2.59 | 119.63 | 115.27 |
| 34 | a | 316 | LUT | C20-C13-C14 | -2.59 | 119.29 | 122.92 |
| 25 | 3 | 320 | CLA | CMB-C2B-C3B | 2.59 | 129.53 | 124.68 |
| 34 | 4 | 315 | LUT | C1-C2-C3 | 2.59 | 119.50 | 113.64 |
| 25 | a | 308 | CLA | C1B-CHB-C4A | -2.59 | 124.98 | 130.12 |
| 25 | 1 | 609 | CLA | C1B-CHB-C4A | -2.59 | 124.98 | 130.12 |
| 25 | T | 611 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 25 | O | 203 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 25 | 6 | 601 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 25 | S | 313 | CLA | C1B-CHB-C4A | -2.59 | 124.99 | 130.12 |
| 27 | 4 | 319 | LHG | O8-C23-C24 | 2.59 | 120.03 | 111.91 |
| 25 | 6 | 623 | CLA | O2D-CGD-CBD | 2.59 | 115.87 | 111.27 |
| 32 | 4 | 320 | LMG | C8-O7-C10 | -2.59 | 111.42 | 117.79 |
| 25 | B | 810 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 25 | 6 | 609 | CLA | O2D-CGD-O1D | -2.59 | 118.78 | 123.84 |
| 25 | A | 827 | CLA | CMB-C2B-C3B | 2.59 | 129.52 | 124.68 |
| 28 | 3 | 319 | BCR | C8-C9-C10 | 2.59 | 122.91 | 118.94 |
| 34 | 1 | 617 | LUT | C3-C4-C5 | -2.59 | 106.70 | 111.85 |
| 25 | 7 | 302 | CLA | C1B-CHB-C4A | -2.59 | 124.99 | 130.12 |
| 34 | U | 315 | LUT | C15-C35-C34 | -2.59 | 118.17 | 123.47 |
| 25 | L | 202 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 33 | Q | 606 | CHL | CHC-C1C-NC | 2.59 | 128.13 | 124.20 |
| 33 | S | 306 | CHL | CHD-C4C-NC | 2.59 | 128.28 | 124.20 |
| 25 | 5 | 305 | CLA | C1-C2-C3 | -2.59 | 122.57 | 126.75 |
| 25 | R | 602 | CLA | C1B-CHB-C4A | -2.59 | 125.00 | 130.12 |
| 25 | 1 | 607 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 25 | 8 | 315 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 33 | 6 | 606 | CHL | C1-C2-C3 | -2.58 | 121.58 | 126.04 |
| 25 | 8 | 302 | CLA | CMB-C2B-C3B | 2.58 | 129.51 | 124.68 |
| 27 | P | 618 | LHG | O8-C23-C24 | 2.58 | 120.01 | 111.91 |
| 25 | A | 819 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 25 | A | 831 | CLA | C1B-CHB-C4A | -2.58 | 125.00 | 130.12 |
| 33 | 6 | 617 | CHL | C1B-CHB-C4A | -2.58 | 125.00 | 130.12 |
| 28 | L | 203 | BCR | C11-C10-C9 | -2.58 | 123.62 | 127.31 |
| 25 | Q | 611 | CLA | O2D-CGD-O1D | -2.58 | 118.79 | 123.84 |
| 25 | O | 201 | CLA | C1B-CHB-C4A | -2.58 | 125.00 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 5 | 313 | CLA | C1B-CHB-C4A | -2.58 | 125.00 | 130.12 |
| 33 | 1 | 601 | CHL | CMB-C2B-C3B | 2.58 | 129.51 | 124.68 |
| 28 | O | 204 | BCR | C7-C8-C9 | -2.58 | 122.34 | 126.23 |
| 34 | 7 | 314 | LUT | C3-C4-C5 | -2.58 | 106.72 | 111.85 |
| 28 | 3 | 318 | BCR | C1-C6-C5 | -2.58 | 118.98 | 122.61 |
| 25 | 5 | 302 | CLA | CMB-C2B-C3B | 2.58 | 129.50 | 124.68 |
| 33 | P | 622 | CHL | C4-C3-C5 | 2.58 | 119.61 | 115.27 |
| 32 | J | 107 | LMG | C1-O6-C5 | 2.58 | 118.75 | 113.69 |
| 25 | A | 818 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 33 | P | 608 | CHL | C3C-C4C-NC | 2.58 | 113.46 | 110.57 |
| 28 | L | 204 | BCR | C30-C25-C26 | -2.58 | 118.98 | 122.61 |
| 25 | P | 611 | CLA | CMA-C3A-C2A | -2.58 | 110.08 | 116.10 |
| 25 | R | 604 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 33 | 4 | 306 | CHL | C3C-C4C-NC | 2.58 | 113.46 | 110.57 |
| 25 | 8 | 302 | CLA | O2D-CGD-O1D | -2.58 | 118.80 | 123.84 |
| 28 | K | 206 | BCR | C34-C9-C10 | -2.58 | 119.31 | 122.92 |
| 25 | 1 | 613 | CLA | CHB-C4A-NA | 2.58 | 128.07 | 124.51 |
| 35 | T | 615 | XAT | C24-C23-C22 | -2.58 | 105.80 | 110.77 |
| 25 | 3 | 311 | CLA | C1B-CHB-C4A | -2.58 | 125.02 | 130.12 |
| 25 | 2 | 312 | CLA | C1B-CHB-C4A | -2.57 | 125.02 | 130.12 |
| 34 | a | 314 | LUT | C15-C14-C13 | -2.57 | 123.64 | 127.31 |
| 25 | 3 | 308 | CLA | O2A-CGA-O1A | -2.57 | 117.09 | 123.59 |
| 25 | 5 | 304 | CLA | O2D-CGD-O1D | -2.57 | 118.81 | 123.84 |
| 34 | a | 314 | LUT | C39-C29-C28 | 2.57 | 122.13 | 118.08 |
| 25 | L | 202 | CLA | O2D-CGD-O1D | -2.57 | 118.81 | 123.84 |
| 25 | A | 837 | CLA | O2A-CGA-O1A | -2.57 | 117.10 | 123.59 |
| 34 | Q | 614 | LUT | C31-C30-C29 | -2.57 | 123.64 | 127.31 |
| 32 | J | 107 | LMG | O8-C28-C29 | 2.57 | 119.98 | 111.91 |
| 25 | 4 | 311 | CLA | CMB-C2B-C1B | -2.57 | 124.51 | 128.46 |
| 28 | B | 845 | BCR | C38-C26-C25 | -2.57 | 121.64 | 124.53 |
| 33 | Q | 607 | CHL | C3C-C4C-NC | 2.57 | 113.45 | 110.57 |
| 25 | T | 609 | CLA | O2A-CGA-O1A | -2.57 | 117.10 | 123.59 |
| 25 | S | 314 | CLA | C1B-CHB-C4A | -2.57 | 125.03 | 130.12 |
| 25 | 2 | 311 | CLA | CMB-C2B-C3B | 2.57 | 129.49 | 124.68 |
| 25 | A | 820 | CLA | CHB-C4A-NA | 2.57 | 128.07 | 124.51 |
| 35 | Q | 616 | XAT | C20-C13-C14 | -2.57 | 119.32 | 122.92 |
| 34 | U | 315 | LUT | C19-C9-C8 | 2.57 | 122.13 | 118.08 |
| 33 | a | 305 | CHL | C3B-C4B-NB | 2.57 | 112.53 | 109.21 |
| 33 | 6 | 607 | CHL | C1B-CHB-C4A | -2.57 | 125.03 | 130.12 |
| 34 | 2 | 316 | LUT | C35-C34-C33 | -2.57 | 123.64 | 127.31 |
| 28 | B | 840 | BCR | C23-C24-C25 | -2.57 | 119.99 | 127.20 |
| 25 | B | 828 | CLA | C1B-CHB-C4A | -2.57 | 125.03 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | U | 313 | CLA | O2A-CGA-O1A | -2.57 | 116.90 | 123.30 |
| 25 | B | 836 | CLA | CHB-C4A-NA | 2.57 | 128.06 | 124.51 |
| 25 | J | 103 | CLA | CHB-C4A-NA | 2.57 | 128.06 | 124.51 |
| 25 | 5 | 305 | CLA | CMB-C2B-C3B | 2.57 | 129.48 | 124.68 |
| 33 | U | 307 | CHL | CMB-C2B-C3B | 2.57 | 129.48 | 124.68 |
| 33 | 6 | 608 | CHL | CAA-C2A-C1A | -2.57 | 103.56 | 111.97 |
| 25 | 8 | 305 | CLA | C1B-CHB-C4A | -2.57 | 125.03 | 130.12 |
| 28 | I | 201 | BCR | C36-C18-C17 | -2.57 | 119.33 | 122.92 |
| 34 | R | 616 | LUT | C38-C25-C24 | -2.57 | 118.07 | 123.56 |
| 33 | 9 | 306 | CHL | OMC-CMC-C2C | -2.57 | 119.89 | 125.69 |
| 25 | a | 310 | CLA | CHB-C4A-NA | 2.57 | 128.06 | 124.51 |
| 25 | B | 820 | CLA | CHB-C4A-NA | 2.56 | 128.06 | 124.51 |
| 34 | S | 316 | LUT | C20-C13-C12 | 2.56 | 122.12 | 118.08 |
| 25 | A | 828 | CLA | CMB-C2B-C1B | -2.56 | 124.52 | 128.46 |
| 25 | B | 810 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 25 | 8 | 304 | CLA | C1B-CHB-C4A | -2.56 | 125.04 | 130.12 |
| 25 | A | 807 | CLA | O2D-CGD-O1D | -2.56 | 118.83 | 123.84 |
| 25 | a | 309 | CLA | C1B-CHB-C4A | -2.56 | 125.04 | 130.12 |
| 28 | A | 848 | BCR | C28-C27-C26 | -2.56 | 109.50 | 114.08 |
| 27 | B | 847 | LHG | O8-C23-C24 | 2.56 | 119.95 | 111.91 |
| 34 | 1 | 617 | LUT | C1-C6-C7 | 2.56 | 123.02 | 115.78 |
| 25 | B | 849 | CLA | O2D-CGD-O1D | -2.56 | 118.83 | 123.84 |
| 25 | A | 812 | CLA | O2D-CGD-O1D | -2.56 | 118.83 | 123.84 |
| 25 | B | 833 | CLA | O2A-CGA-O1A | -2.56 | 117.13 | 123.59 |
| 25 | 9 | 301 | CLA | CAB-C3B-C2B | 2.56 | 129.70 | 124.69 |
| 34 | 4 | 316 | LUT | C18-C5-C4 | 2.56 | 119.10 | 114.36 |
| 33 | 6 | 608 | CHL | CAA-CBA-CGA | -2.56 | 105.78 | 113.25 |
| 25 | 8 | 313 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 25 | A | 833 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 25 | Q | 611 | CLA | O2A-CGA-O1A | -2.56 | 117.14 | 123.59 |
| 25 | U | 311 | CLA | O2A-CGA-O1A | -2.56 | 117.14 | 123.59 |
| 25 | 9 | 311 | CLA | CMB-C2B-C3B | 2.56 | 129.46 | 124.68 |
| 35 | S | 318 | XAT | C40-C33-C32 | 2.56 | 122.11 | 118.08 |
| 25 | 5 | 319 | CLA | C2A-C1A-CHA | 2.56 | 128.33 | 123.86 |
| 25 | 4 | 311 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 34 | 9 | 313 | LUT | C16-C1-C6 | -2.56 | 106.15 | 110.30 |
| 26 | A | 841 | PQN | C21-C22-C23 | -2.56 | 107.66 | 115.92 |
| 25 | J | 103 | CLA | O2A-CGA-O1A | -2.56 | 117.14 | 123.59 |
| 25 | 7 | 303 | CLA | C1B-CHB-C4A | -2.56 | 125.06 | 130.12 |
| 34 | 6 | 622 | LUT | C8-C7-C6 | -2.56 | 120.02 | 127.20 |
| 28 | K | 206 | BCR | C33-C5-C4 | 2.56 | 118.53 | 113.62 |
| 25 | 4 | 301 | CLA | O2D-CGD-O1D | -2.55 | 118.84 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 804 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 25 | 5 | 313 | CLA | CMD-C2D-C3D | -2.55 | 121.74 | 127.61 |
| 25 | H | 203 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 25 | B | 826 | CLA | C1-C2-C3 | -2.55 | 121.63 | 126.04 |
| 28 | 8 | 301 | BCR | C33-C5-C4 | 2.55 | 118.52 | 113.62 |
| 25 | A | 840 | CLA | CMB-C2B-C1B | -2.55 | 124.54 | 128.46 |
| 25 | a | 313 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 28 | G | 203 | BCR | C16-C15-C14 | -2.55 | 118.24 | 123.47 |
| 25 | Q | 604 | CLA | CMB-C2B-C3B | 2.55 | 129.45 | 124.68 |
| 34 | 1 | 615 | LUT | C10-C11-C12 | -2.55 | 115.25 | 123.22 |
| 25 | P | 610 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 25 | 7 | 306 | CLA | CMB-C2B-C3B | 2.55 | 129.45 | 124.68 |
| 25 | 3 | 307 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 25 | U | 302 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 25 | 5 | 316 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 25 | 5 | 324 | CLA | CMB-C2B-C3B | 2.55 | 129.45 | 124.68 |
| 28 | A | 846 | BCR | C16-C15-C14 | -2.55 | 118.25 | 123.47 |
| 36 | U | 301 | NEX | C26-C27-C28 | -2.55 | 120.60 | 125.99 |
| 28 | A | 846 | BCR | C21-C20-C19 | -2.55 | 115.26 | 123.22 |
| 28 | A | 846 | BCR | C28-C27-C26 | -2.55 | 109.53 | 114.08 |
| 25 | Q | 602 | CLA | O2D-CGD-O1D | -2.55 | 118.86 | 123.84 |
| 33 | 4 | 306 | CHL | C5-C3-C4 | 2.55 | 120.23 | 114.60 |
| 25 | A | 826 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 25 | J | 105 | CLA | CMB-C2B-C3B | 2.55 | 129.44 | 124.68 |
| 25 | 9 | 310 | CLA | C1B-CHB-C4A | -2.55 | 125.07 | 130.12 |
| 25 | 4 | 303 | CLA | CHB-C4A-NA | 2.55 | 128.03 | 124.51 |
| 33 | T | 601 | CHL | CHD-C4C-NC | 2.55 | 128.22 | 124.20 |
| 25 | 2 | 308 | CLA | CMB-C2B-C3B | 2.55 | 129.44 | 124.68 |
| 33 | T | 606 | CHL | C3C-C4C-NC | 2.55 | 113.43 | 110.57 |
| 25 | B | 812 | CLA | CMB-C2B-C3B | 2.55 | 129.44 | 124.68 |
| 25 | 1 | 612 | CLA | C2A-C1A-CHA | 2.55 | 128.31 | 123.86 |
| 25 | B | 813 | CLA | CMB-C2B-C3B | 2.55 | 129.44 | 124.68 |
| 33 | S | 307 | CHL | CMB-C2B-C3B | 2.55 | 129.44 | 124.68 |
| 25 | B | 811 | CLA | CHB-C4A-NA | 2.54 | 128.03 | 124.51 |
| 25 | H | 201 | CLA | CHB-C4A-NA | 2.54 | 128.03 | 124.51 |
| 25 | O | 201 | CLA | O2D-CGD-O1D | -2.54 | 118.87 | 123.84 |
| 25 | B | 824 | CLA | C1B-CHB-C4A | -2.54 | 125.08 | 130.12 |
| 35 | P | 623 | XAT | O23-C23-C24 | -2.54 | 104.75 | 109.80 |
| 25 | 2 | 313 | CLA | C1B-CHB-C4A | -2.54 | 125.08 | 130.12 |
| 25 | a | 309 | CLA | O2D-CGD-O1D | -2.54 | 118.87 | 123.84 |
| 25 | R | 610 | CLA | C1B-CHB-C4A | -2.54 | 125.08 | 130.12 |
| 25 | P | 610 | CLA | CHD-C1D-ND | -2.54 | 122.12 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | H | 203 | CLA | C1B-CHB-C4A | -2.54 | 125.08 | 130.12 |
| 25 | a | 301 | CLA | O1D-CGD-CBD | 2.54 | 129.68 | 124.48 |
| 25 | B | 835 | CLA | CMB-C2B-C3B | 2.54 | 129.43 | 124.68 |
| 34 | a | 315 | LUT | C1-C6-C5 | -2.54 | 119.04 | 122.61 |
| 25 | B | 821 | CLA | CHB-C4A-NA | 2.54 | 128.02 | 124.51 |
| 25 | 4 | 307 | CLA | C1B-CHB-C4A | -2.54 | 125.09 | 130.12 |
| 25 | 6 | 623 | CLA | C1B-CHB-C4A | -2.54 | 125.09 | 130.12 |
| 27 | S | 319 | LHG | O8-C23-C24 | 2.54 | 119.88 | 111.91 |
| 28 | F | 801 | BCR | C20-C19-C18 | -2.54 | 119.28 | 126.42 |
| 33 | 4 | 304 | CHL | CHD-C1D-ND | -2.54 | 122.12 | 124.45 |
| 25 | 5 | 309 | CLA | CMB-C2B-C3B | 2.54 | 129.43 | 124.68 |
| 34 | 2 | 316 | LUT | C16-C1-C6 | -2.54 | 106.18 | 110.30 |
| 25 | A | 809 | CLA | O2D-CGD-CBD | 2.54 | 115.78 | 111.27 |
| 25 | A | 818 | CLA | O2A-CGA-O1A | -2.54 | 117.19 | 123.59 |
| 25 | R | 604 | CLA | C1B-CHB-C4A | -2.54 | 125.09 | 130.12 |
| 25 | 7 | 301 | CLA | O2D-CGD-O1D | -2.54 | 118.88 | 123.84 |
| 25 | A | 821 | CLA | C1B-CHB-C4A | -2.54 | 125.10 | 130.12 |
| 25 | L | 206 | CLA | CHB-C4A-NA | 2.53 | 128.02 | 124.51 |
| 25 | 3 | 309 | CLA | C1B-CHB-C4A | -2.53 | 125.10 | 130.12 |
| 28 | B | 842 | BCR | C10-C11-C12 | -2.53 | 115.31 | 123.22 |
| 25 | T | 612 | CLA | CHB-C4A-NA | 2.53 | 128.02 | 124.51 |
| 25 | H | 201 | CLA | CMB-C2B-C3B | 2.53 | 129.42 | 124.68 |
| 28 | F | 801 | BCR | C15-C14-C13 | -2.53 | 123.70 | 127.31 |
| 34 | P | 615 | LUT | C15-C35-C34 | -2.53 | 118.29 | 123.47 |
| 25 | B | 836 | CLA | C1B-CHB-C4A | -2.53 | 125.10 | 130.12 |
| 25 | A | 828 | CLA | CMB-C2B-C3B | 2.53 | 129.41 | 124.68 |
| 25 | a | 311 | CLA | CMB-C2B-C3B | 2.53 | 129.41 | 124.68 |
| 27 | T | 617 | LHG | O8-C23-C24 | 2.53 | 119.85 | 111.91 |
| 25 | a | 301 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 28 | B | 844 | BCR | C28-C27-C26 | -2.53 | 109.56 | 114.08 |
| 25 | 3 | 310 | CLA | O2D-CGD-O1D | -2.53 | 118.89 | 123.84 |
| 33 | R | 609 | CHL | CMB-C2B-C1B | -2.53 | 124.58 | 128.46 |
| 25 | 4 | 307 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 25 | A | 835 | CLA | O2A-CGA-O1A | -2.53 | 117.21 | 123.59 |
| 25 | 7 | 306 | CLA | O2A-CGA-O1A | -2.53 | 117.21 | 123.59 |
| 32 | H | 204 | LMG | O8-C28-C29 | 2.53 | 119.84 | 111.91 |
| 28 | B | 843 | BCR | C33-C5-C4 | 2.53 | 118.47 | 113.62 |
| 28 | A | 847 | BCR | C21-C20-C19 | -2.53 | 115.33 | 123.22 |
| 25 | K | 205 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 25 | S | 314 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 25 | a | 302 | CLA | C1B-CHB-C4A | -2.53 | 125.11 | 130.12 |
| 25 | Q | 609 | CLA | CHD-C1D-ND | -2.53 | 122.13 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 5 | 314 | CLA | CHB-C4A-NA | 2.53 | 128.00 | 124.51 |
| 25 | 8 | 304 | CLA | CHB-C4A-NA | 2.53 | 128.00 | 124.51 |
| 28 | A | 846 | BCR | C38-C26-C27 | 2.53 | 118.47 | 113.62 |
| 25 | a | 312 | CLA | CHB-C4A-NA | 2.53 | 128.00 | 124.51 |
| 25 | B | 837 | CLA | C1B-CHB-C4A | -2.52 | 125.12 | 130.12 |
| 33 | U | 307 | CHL | O2A-CGA-CBA | 2.52 | 119.83 | 111.91 |
| 34 | S | 316 | LUT | C30-C31-C32 | -2.52 | 115.34 | 123.22 |
| 25 | S | 320 | CLA | O2D-CGD-O1D | -2.52 | 118.90 | 123.84 |
| 25 | A | 816 | CLA | C1B-CHB-C4A | -2.52 | 125.12 | 130.12 |
| 33 | T | 607 | CHL | CMB-C2B-C3B | 2.52 | 129.40 | 124.68 |
| 34 | 1 | 616 | LUT | C1-C6-C5 | -2.52 | 119.06 | 122.61 |
| 25 | 2 | 312 | CLA | CMB-C2B-C3B | 2.52 | 129.40 | 124.68 |
| 33 | 4 | 306 | CHL | CHC-C1C-NC | 2.52 | 128.03 | 124.20 |
| 25 | 7 | 312 | CLA | C1B-CHB-C4A | -2.52 | 125.12 | 130.12 |
| 25 | A | 831 | CLA | CMB-C2B-C3B | 2.52 | 129.39 | 124.68 |
| 25 | O | 202 | CLA | O2D-CGD-O1D | -2.52 | 118.37 | 124.09 |
| 25 | 6 | 610 | CLA | O2D-CGD-O1D | -2.52 | 118.91 | 123.84 |
| 25 | 5 | 310 | CLA | C1B-CHB-C4A | -2.52 | 125.13 | 130.12 |
| 25 | K | 201 | CLA | O2D-CGD-CBD | 2.52 | 115.74 | 111.27 |
| 33 | T | 601 | CHL | CMB-C2B-C3B | 2.52 | 129.39 | 124.68 |
| 34 | T | 613 | LUT | C3-C4-C5 | -2.52 | 106.84 | 111.85 |
| 25 | 7 | 306 | CLA | C1B-CHB-C4A | -2.52 | 125.13 | 130.12 |
| 25 | K | 203 | CLA | CHB-C4A-NA | 2.52 | 127.99 | 124.51 |
| 25 | 4 | 312 | CLA | CHB-C4A-NA | 2.52 | 127.99 | 124.51 |
| 28 | B | 843 | BCR | C33-C5-C6 | -2.52 | 121.70 | 124.53 |
| 25 | B | 820 | CLA | O2D-CGD-O1D | -2.52 | 118.92 | 123.84 |
| 28 | 3 | 317 | BCR | C36-C18-C19 | 2.52 | 122.04 | 118.08 |
| 28 | I | 201 | BCR | C8-C7-C6 | -2.52 | 120.14 | 127.20 |
| 34 | 7 | 315 | LUT | C30-C31-C32 | -2.52 | 115.37 | 123.22 |
| 25 | B | 830 | CLA | CHB-C4A-NA | 2.52 | 127.99 | 124.51 |
| 25 | 6 | 615 | CLA | CAA-CBA-CGA | -2.51 | 105.90 | 113.25 |
| 25 | 3 | 310 | CLA | CHB-C4A-NA | 2.51 | 127.99 | 124.51 |
| 25 | a | 308 | CLA | O2A-CGA-O1A | -2.51 | 117.25 | 123.59 |
| 33 | S | 309 | CHL | CMB-C2B-C3B | 2.51 | 129.38 | 124.68 |
| 25 | B | 829 | CLA | C1B-CHB-C4A | -2.51 | 125.14 | 130.12 |
| 27 | 4 | 319 | LHG | C5-O7-C7 | -2.51 | 111.61 | 117.79 |
| 34 | 9 | 313 | LUT | C18-C5-C6 | -2.51 | 121.71 | 124.53 |
| 28 | L | 204 | BCR | C10-C11-C12 | -2.51 | 115.39 | 123.22 |
| 25 | B | 807 | CLA | CMB-C2B-C3B | 2.51 | 129.37 | 124.68 |
| 25 | 7 | 313 | CLA | O2D-CGD-O1D | -2.51 | 118.93 | 123.84 |
| 25 | R | 613 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |
| 25 | A | 836 | CLA | CMB-C2B-C3B | 2.51 | 129.37 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 819 | CLA | C1B-CHB-C4A | -2.51 | 125.15 | 130.12 |
| 25 | Q | 603 | CLA | C1B-CHB-C4A | -2.51 | 125.15 | 130.12 |
| 35 | P | 616 | XAT | C15-C35-C34 | -2.51 | 118.34 | 123.47 |
| 25 | B | 837 | CLA | CMB-C2B-C3B | 2.51 | 129.37 | 124.68 |
| 33 | R | 606 | CHL | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |
| 33 | Q | 608 | CHL | CMB-C2B-C1B | -2.51 | 124.61 | 128.46 |
| 25 | 5 | 312 | CLA | O2D-CGD-O1D | -2.51 | 118.94 | 123.84 |
| 25 | T | 611 | CLA | O2D-CGD-O1D | -2.51 | 118.94 | 123.84 |
| 25 | A | 817 | CLA | CMB-C2B-C1B | -2.51 | 124.61 | 128.46 |
| 25 | U | 310 | CLA | C1B-CHB-C4A | -2.50 | 125.16 | 130.12 |
| 25 | 1 | 609 | CLA | O2A-CGA-O1A | -2.50 | 117.27 | 123.59 |
| 33 | 4 | 305 | CHL | O2A-CGA-CBA | 2.50 | 119.77 | 111.91 |
| 34 | a | 314 | LUT | C19-C9-C8 | 2.50 | 122.02 | 118.08 |
| 25 | B | 831 | CLA | O2A-CGA-O1A | -2.50 | 117.27 | 123.59 |
| 33 | S | 307 | CHL | C3B-C4B-NB | 2.50 | 112.45 | 109.21 |
| 28 | G | 203 | BCR | C10-C11-C12 | -2.50 | 115.41 | 123.22 |
| 25 | 1 | 602 | CLA | C1B-CHB-C4A | -2.50 | 125.16 | 130.12 |
| 25 | 6 | 612 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 25 | 4 | 308 | CLA | CAC-C3C-C4C | 2.50 | 128.06 | 124.81 |
| 34 | 8 | 316 | LUT | C20-C13-C14 | -2.50 | 119.42 | 122.92 |
| 25 | a | 302 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 32 | J | 107 | LMG | O1-C1-C2 | 2.50 | 112.21 | 108.30 |
| 25 | 6 | 609 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 33 | P | 609 | CHL | CMB-C2B-C1B | -2.50 | 124.62 | 128.46 |
| 25 | F | 802 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 25 | 6 | 612 | CLA | C1B-CHB-C4A | -2.50 | 125.17 | 130.12 |
| 25 | A | 830 | CLA | O2D-CGD-CBD | 2.50 | 115.71 | 111.27 |
| 25 | A | 851 | CLA | CMB-C2B-C3B | 2.50 | 129.35 | 124.68 |
| 28 | J | 101 | BCR | C2-C1-C6 | 2.50 | 114.33 | 110.48 |
| 28 | A | 847 | BCR | C7-C8-C9 | -2.50 | 122.46 | 126.23 |
| 26 | B | 839 | PQN | C14-C13-C15 | 2.50 | 119.47 | 115.27 |
| 33 | 6 | 607 | CHL | C4-C3-C5 | 2.50 | 119.47 | 115.27 |
| 28 | B | 845 | BCR | C11-C10-C9 | -2.50 | 123.75 | 127.31 |
| 25 | 2 | 302 | CLA | O2D-CGD-O1D | -2.50 | 118.96 | 123.84 |
| 33 | 1 | 606 | CHL | C3B-C4B-NB | 2.50 | 112.44 | 109.21 |
| 25 | 9 | 308 | CLA | C1B-CHB-C4A | -2.50 | 125.17 | 130.12 |
| 25 | T | 608 | CLA | CHB-C4A-NA | 2.50 | 127.96 | 124.51 |
| 25 | 4 | 302 | CLA | CHB-C4A-NA | 2.50 | 127.96 | 124.51 |
| 25 | 7 | 301 | CLA | CHB-C4A-NA | 2.50 | 127.96 | 124.51 |
| 34 | 7 | 314 | LUT | C10-C11-C12 | -2.50 | 115.43 | 123.22 |
| 25 | B | 825 | CLA | C1-C2-C3 | -2.50 | 121.73 | 126.04 |
| 25 | 2 | 311 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 3 | 302 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |
| 27 | P | 624 | LHG | O8-C23-C24 | 2.49 | 119.73 | 111.91 |
| 28 | O | 204 | BCR | C39-C30-C25 | -2.49 | 106.25 | 110.30 |
| 30 | B | 846 | DGD | O1G-C1A-C2A | 2.49 | 119.73 | 111.91 |
| 25 | A | 815 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 25 | 5 | 309 | CLA | O2D-CGD-O1D | -2.49 | 118.97 | 123.84 |
| 25 | A | 814 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |
| 34 | 1 | 615 | LUT | C18-C5-C4 | 2.49 | 118.97 | 114.36 |
| 33 | U | 308 | CHL | C4A-NA-C1A | -2.49 | 105.59 | 106.71 |
| 25 | S | 304 | CLA | CMB-C2B-C3B | 2.49 | 129.34 | 124.68 |
| 25 | A | 837 | CLA | CAA-CBA-CGA | -2.49 | 105.97 | 113.25 |
| 33 | 9 | 306 | CHL | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 33 | S | 302 | CHL | O2A-CGA-CBA | 2.49 | 119.72 | 111.91 |
| 25 | P | 611 | CLA | CGD-CBD-CAD | -2.49 | 102.67 | 110.73 |
| 34 | 3 | 316 | LUT | C3-C4-C5 | -2.49 | 106.89 | 111.85 |
| 34 | 6 | 622 | LUT | C10-C11-C12 | -2.49 | 115.45 | 123.22 |
| 27 | A | 852 | LHG | O8-C23-C24 | 2.49 | 119.72 | 111.91 |
| 25 | B | 818 | CLA | C1B-CHB-C4A | -2.49 | 125.19 | 130.12 |
| 25 | 4 | 312 | CLA | CMB-C2B-C3B | 2.49 | 129.34 | 124.68 |
| 28 | 4 | 321 | BCR | C16-C17-C18 | -2.49 | 123.76 | 127.31 |
| 34 | 4 | 315 | LUT | C21-C26-C27 | -2.49 | 109.56 | 112.70 |
| 25 | S | 320 | CLA | C1B-CHB-C4A | -2.49 | 125.19 | 130.12 |
| 28 | 4 | 321 | BCR | C7-C6-C5 | -2.49 | 115.43 | 121.46 |
| 25 | R | 602 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 34 | 7 | 314 | LUT | C30-C31-C32 | -2.49 | 115.45 | 123.22 |
| 33 | R | 605 | CHL | C3C-C4C-NC | 2.49 | 113.36 | 110.57 |
| 25 | A | 802 | CLA | C1B-CHB-C4A | -2.49 | 125.19 | 130.12 |
| 36 | U | 316 | NEX | C26-C27-C28 | -2.49 | 120.73 | 125.99 |
| 28 | A | 854 | BCR | C27-C26-C25 | -2.49 | 119.12 | 122.73 |
| 25 | B | 817 | CLA | O2D-CGD-O1D | -2.49 | 118.98 | 123.84 |
| 34 | T | 614 | LUT | C15-C35-C34 | -2.49 | 118.38 | 123.47 |
| 25 | A | 827 | CLA | C11-C12-C13 | -2.49 | 107.88 | 115.92 |
| 33 | S | 308 | CHL | C4-C3-C5 | 2.49 | 118.83 | 115.98 |
| 25 | B | 834 | CLA | C1B-CHB-C4A | -2.49 | 125.19 | 130.12 |
| 25 | B | 829 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 27 | R | 618 | LHG | O8-C23-C24 | 2.49 | 119.71 | 111.91 |
| 33 | 4 | 314 | CHL | C3C-C4C-NC | 2.49 | 113.36 | 110.57 |
| 35 | P | 623 | XAT | C15-C35-C34 | -2.48 | 118.38 | 123.47 |
| 25 | A | 812 | CLA | C2D-C1D-ND | -2.48 | 108.27 | 110.10 |
| 25 | U | 303 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 28 | B | 843 | BCR | C15-C16-C17 | -2.48 | 118.39 | 123.47 |
| 25 | 7 | 302 | CLA | CHB-C4A-NA | 2.48 | 127.95 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 842 | CLA | O2D-CGD-O1D | -2.48 | 118.98 | 123.84 |
| 33 | P | 608 | CHL | CMB-C2B-C3B | 2.48 | 129.32 | 124.68 |
| 25 | B | 802 | CLA | O2A-CGA-O1A | -2.48 | 117.33 | 123.59 |
| 25 | B | 832 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 27 | 6 | 618 | LHG | O7-C7-O9 | -2.48 | 117.71 | 123.70 |
| 25 | U | 302 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 25 | 3 | 313 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 34 | 3 | 316 | LUT | C15-C14-C13 | -2.48 | 123.77 | 127.31 |
| 25 | B | 819 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 25 | 5 | 312 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 25 | A | 829 | CLA | O2D-CGD-CBD | 2.48 | 115.67 | 111.27 |
| 25 | R | 610 | CLA | CHD-C1D-ND | -2.48 | 122.18 | 124.45 |
| 33 | R | 608 | CHL | CMB-C2B-C3B | 2.48 | 129.31 | 124.68 |
| 25 | L | 205 | CLA | C1B-CHB-C4A | -2.48 | 125.21 | 130.12 |
| 28 | B | 851 | BCR | C4-C5-C6 | -2.48 | 119.14 | 122.73 |
| 34 | 4 | 315 | LUT | C16-C1-C6 | -2.48 | 106.28 | 110.30 |
| 25 | 3 | 311 | CLA | CMB-C2B-C3B | 2.47 | 129.31 | 124.68 |
| 28 | 8 | 318 | BCR | C2-C1-C6 | 2.47 | 114.29 | 110.48 |
| 25 | 4 | 309 | CLA | O2D-CGD-O1D | -2.47 | 119.00 | 123.84 |
| 25 | 7 | 311 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 28 | F | 803 | BCR | C38-C26-C27 | 2.47 | 118.37 | 113.62 |
| 25 | A | 808 | CLA | CMB-C2B-C3B | 2.47 | 129.30 | 124.68 |
| 25 | Q | 612 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 34 | a | 314 | LUT | C31-C30-C29 | -2.47 | 123.78 | 127.31 |
| 25 | 7 | 310 | CLA | C1B-CHB-C4A | -2.47 | 125.22 | 130.12 |
| 25 | 7 | 309 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 33 | 4 | 304 | CHL | CAA-C2A-C3A | -2.47 | 110.33 | 116.10 |
| 34 | 6 | 622 | LUT | C31-C30-C29 | -2.47 | 123.78 | 127.31 |
| 25 | A | 825 | CLA | CAC-C3C-C4C | 2.47 | 128.02 | 124.81 |
| 33 | a | 305 | CHL | C3C-C4C-NC | 2.47 | 113.34 | 110.57 |
| 35 | P | 620 | XAT | C15-C35-C34 | -2.47 | 118.42 | 123.47 |
| 34 | 3 | 316 | LUT | C8-C7-C6 | -2.47 | 120.27 | 127.20 |
| 25 | A | 830 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 25 | A | 838 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 25 | B | 815 | CLA | O2D-CGD-CBD | 2.47 | 115.65 | 111.27 |
| 25 | K | 202 | CLA | CHB-C4A-NA | 2.47 | 127.92 | 124.51 |
| 25 | 6 | 616 | CLA | C1B-CHB-C4A | -2.47 | 125.23 | 130.12 |
| 25 | 3 | 305 | CLA | C1B-CHB-C4A | -2.47 | 125.23 | 130.12 |
| 34 | 5 | 318 | LUT | C16-C1-C6 | -2.47 | 106.30 | 110.30 |
| 33 | Q | 607 | CHL | CMB-C2B-C3B | 2.47 | 129.29 | 124.68 |
| 25 | 2 | 303 | CLA | CMB-C2B-C3B | 2.47 | 129.29 | 124.68 |
| 25 | B | 806 | CLA | O2D-CGD-CBD | 2.47 | 115.65 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | F | 801 | BCR | C37-C22-C21 | -2.47 | 119.47 | 122.92 |
| 34 | a | 315 | LUT | C30-C31-C32 | -2.46 | 115.53 | 123.22 |
| 28 | F | 801 | BCR | C8-C7-C6 | -2.46 | 120.28 | 127.20 |
| 25 | A | 851 | CLA | O2A-CGA-O1A | -2.46 | 117.37 | 123.59 |
| 25 | K | 201 | CLA | O2A-CGA-O1A | -2.46 | 117.37 | 123.59 |
| 25 | B | 813 | CLA | O2D-CGD-O1D | -2.46 | 119.02 | 123.84 |
| 33 | 9 | 307 | CHL | O2A-CGA-CBA | 2.46 | 119.64 | 111.91 |
| 25 | 7 | 304 | CLA | CMB-C2B-C1B | -2.46 | 124.68 | 128.46 |
| 34 | 2 | 316 | LUT | C10-C11-C12 | -2.46 | 115.53 | 123.22 |
| 35 | Q | 616 | XAT | C31-C32-C33 | -2.46 | 119.50 | 126.42 |
| 33 | S | 302 | CHL | CMB-C2B-C3B | 2.46 | 129.29 | 124.68 |
| 31 | B | 850 | SQD | O48-C23-C24 | 2.46 | 119.64 | 111.91 |
| 25 | 7 | 311 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 33 | 1 | 601 | CHL | CMD-C2D-C3D | -2.46 | 121.95 | 127.61 |
| 25 | B | 822 | CLA | O2D-CGD-CBD | 2.46 | 115.64 | 111.27 |
| 25 | B | 808 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 25 | 2 | 310 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 28 | O | 204 | BCR | C4-C5-C6 | -2.46 | 119.16 | 122.73 |
| 28 | A | 854 | BCR | C38-C26-C25 | -2.46 | 121.76 | 124.53 |
| 25 | A | 804 | CLA | CHB-C4A-NA | 2.46 | 127.92 | 124.51 |
| 34 | T | 614 | LUT | C18-C5-C4 | 2.46 | 118.91 | 114.36 |
| 34 | 8 | 317 | LUT | C18-C5-C4 | 2.46 | 118.91 | 114.36 |
| 34 | 7 | 315 | LUT | C18-C5-C4 | 2.46 | 118.91 | 114.36 |
| 28 | B | 841 | BCR | C38-C26-C27 | 2.46 | 118.34 | 113.62 |
| 25 | P | 610 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 33 | 3 | 306 | CHL | C4-C3-C5 | 2.46 | 119.41 | 115.27 |
| 25 | A | 828 | CLA | O2A-CGA-O1A | -2.46 | 117.39 | 123.59 |
| 34 | a | 314 | LUT | C16-C1-C6 | -2.46 | 106.31 | 110.30 |
| 25 | B | 822 | CLA | C1-C2-C3 | -2.46 | 121.80 | 126.04 |
| 25 | A | 840 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 25 | 2 | 305 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 25 | 9 | 305 | CLA | C1-C2-C3 | -2.45 | 122.78 | 126.75 |
| 33 | 5 | 308 | CHL | OBD-CAD-C3D | -2.45 | 122.61 | 128.52 |
| 25 | 2 | 302 | CLA | CAA-CBA-CGA | -2.45 | 106.08 | 113.25 |
| 33 | a | 305 | CHL | CMB-C2B-C3B | 2.45 | 129.27 | 124.68 |
| 25 | K | 203 | CLA | C1B-CHB-C4A | -2.45 | 125.26 | 130.12 |
| 25 | 3 | 314 | CLA | O2D-CGD-O1D | -2.45 | 119.04 | 123.84 |
| 25 | 4 | 301 | CLA | C1B-CHB-C4A | -2.45 | 125.26 | 130.12 |
| 33 | Q | 601 | CHL | CMB-C2B-C3B | 2.45 | 129.27 | 124.68 |
| 33 | P | 606 | CHL | O2D-CGD-O1D | -2.45 | 119.04 | 123.84 |
| 34 | 4 | 315 | LUT | C35-C15-C14 | -2.45 | 118.45 | 123.47 |
| 25 | S | 312 | CLA | O2A-CGA-O1A | -2.45 | 117.41 | 123.59 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 32 | J | 104 | LMG | C7-O1-C1 | -2.45 | 108.95 | 113.74 |
| 33 | P | 601 | CHL | CMB-C2B-C3B | 2.45 | 129.26 | 124.68 |
| 25 | B | 813 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 25 | L | 201 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 25 | B | 830 | CLA | CMB-C2B-C3B | 2.45 | 129.26 | 124.68 |
| 28 | 3 | 318 | BCR | C37-C22-C21 | -2.45 | 119.49 | 122.92 |
| 27 | 8 | 319 | LHG | C6-C5-C4 | -2.45 | 106.00 | 111.79 |
| 25 | 2 | 308 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 25 | 8 | 306 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 35 | S | 318 | XAT | C7-C8-C9 | -2.45 | 121.73 | 125.53 |
| 25 | 8 | 310 | CLA | C1-C2-C3 | -2.45 | 121.81 | 126.04 |
| 25 | S | 305 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 34 | a | 316 | LUT | C40-C33-C34 | -2.45 | 119.50 | 122.92 |
| 25 | 3 | 313 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 27 | 8 | 319 | LHG | O8-C23-C24 | 2.45 | 119.59 | 111.91 |
| 25 | a | 301 | CLA | CMB-C2B-C3B | 2.45 | 129.26 | 124.68 |
| 33 | R | 601 | CHL | CMB-C2B-C3B | 2.45 | 129.26 | 124.68 |
| 34 | 1 | 615 | LUT | C15-C14-C13 | -2.45 | 123.82 | 127.31 |
| 25 | 2 | 310 | CLA | CHB-C4A-NA | 2.45 | 127.89 | 124.51 |
| 33 | 5 | 308 | CHL | O2D-CGD-O1D | -2.45 | 119.06 | 123.84 |
| 25 | B | 802 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 25 | Q | 613 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 25 | A | 829 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 32 | 6 | 602 | LMG | C1-O6-C5 | -2.44 | 108.89 | 113.69 |
| 35 | P | 623 | XAT | C35-C15-C14 | -2.44 | 118.47 | 123.47 |
| 28 | A | 849 | BCR | C37-C22-C21 | -2.44 | 119.50 | 122.92 |
| 25 | 6 | 604 | CLA | O2D-CGD-O1D | -2.44 | 119.07 | 123.84 |
| 25 | 1 | 610 | CLA | O2D-CGD-O1D | -2.44 | 119.07 | 123.84 |
| 25 | B | 827 | CLA | C1B-CHB-C4A | -2.44 | 125.28 | 130.12 |
| 28 | F | 801 | BCR | C33-C5-C4 | 2.44 | 118.30 | 113.62 |
| 33 | Q | 608 | CHL | C2A-C3A-C4A | 2.44 | 105.81 | 101.87 |
| 33 | 6 | 607 | CHL | O2A-CGA-CBA | 2.44 | 119.56 | 111.91 |
| 25 | A | 853 | CLA | O2A-CGA-O1A | -2.44 | 117.44 | 123.59 |
| 25 | B | 834 | CLA | O2A-CGA-O1A | -2.44 | 117.44 | 123.59 |
| 33 | T | 605 | CHL | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 25 | 7 | 312 | CLA | CHB-C4A-NA | 2.44 | 127.88 | 124.51 |
| 25 | 3 | 304 | CLA | CMB-C2B-C3B | 2.44 | 129.24 | 124.68 |
| 25 | 4 | 303 | CLA | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 34 | Q | 615 | LUT | C18-C5-C4 | 2.44 | 118.87 | 114.36 |
| 28 | B | 844 | BCR | C8-C7-C6 | -2.44 | 120.36 | 127.20 |
| 33 | R | 609 | CHL | C2A-C3A-C4A | 2.44 | 105.81 | 101.87 |
| 25 | Q | 603 | CLA | CHD-C1D-ND | -2.44 | 122.22 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | R | 617 | NEX | C40-C33-C34 | -2.44 | 119.51 | 122.92 |
| 25 | L | 202 | CLA | CMB-C2B-C3B | 2.44 | 129.24 | 124.68 |
| 33 | 7 | 305 | CHL | CMB-C2B-C3B | 2.44 | 129.23 | 124.68 |
| 25 | P | 613 | CLA | CHB-C4A-NA | 2.43 | 127.88 | 124.51 |
| 34 | 1 | 617 | LUT | C39-C29-C30 | -2.43 | 119.51 | 122.92 |
| 28 | L | 203 | BCR | C15-C14-C13 | -2.43 | 123.84 | 127.31 |
| 28 | 4 | 317 | BCR | C11-C12-C13 | -2.43 | 119.58 | 126.42 |
| 25 | B | 837 | CLA | O2A-CGA-O1A | -2.43 | 117.45 | 123.59 |
| 33 | P | 609 | CHL | C2A-C3A-C4A | 2.43 | 105.80 | 101.87 |
| 25 | 2 | 304 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |
| 25 | B | 804 | CLA | CMB-C2B-C3B | 2.43 | 129.23 | 124.68 |
| 33 | 9 | 306 | CHL | CMB-C2B-C3B | 2.43 | 129.23 | 124.68 |
| 25 | B | 814 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |
| 25 | 7 | 301 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |
| 32 | 2 | 301 | LMG | C7-O1-C1 | -2.43 | 108.99 | 113.74 |
| 33 | S | 309 | CHL | OBD-CAD-C3D | -2.43 | 122.67 | 128.52 |
| 25 | 1 | 610 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |
| 25 | 2 | 307 | CLA | CMB-C2B-C3B | 2.43 | 129.23 | 124.68 |
| 33 | 9 | 307 | CHL | CED-O2D-CGD | 2.43 | 121.44 | 115.94 |
| 34 | 4 | 315 | LUT | C15-C35-C34 | -2.43 | 118.50 | 123.47 |
| 25 | 3 | 303 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |
| 25 | 4 | 311 | CLA | O2A-CGA-O1A | -2.43 | 117.46 | 123.59 |
| 25 | 8 | 308 | CLA | O2A-CGA-O1A | -2.43 | 117.46 | 123.59 |
| 28 | O | 204 | BCR | C11-C10-C9 | -2.43 | 123.84 | 127.31 |
| 33 | 4 | 305 | CHL | O1D-CGD-CBD | -2.43 | 119.51 | 124.48 |
| 25 | G | 202 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 25 | U | 312 | CLA | C1B-CHB-C4A | -2.43 | 125.31 | 130.12 |
| 33 | 4 | 306 | CHL | CBC-CAC-C3C | -2.43 | 105.73 | 112.43 |
| 25 | P | 602 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 25 | 4 | 313 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 25 | B | 833 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 25 | a | 309 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 25 | B | 807 | CLA | C1-C2-C3 | -2.43 | 121.84 | 126.04 |
| 25 | A | 831 | CLA | O2A-CGA-O1A | -2.43 | 117.47 | 123.59 |
| 33 | P | 607 | CHL | O2A-CGA-CBA | 2.43 | 119.53 | 111.91 |
| 25 | B | 830 | CLA | O2A-CGA-O1A | -2.43 | 117.47 | 123.59 |
| 25 | R | 603 | CLA | C1B-CHB-C4A | -2.43 | 125.31 | 130.12 |
| 25 | S | 305 | CLA | C1B-CHB-C4A | -2.43 | 125.31 | 130.12 |
| 34 | 9 | 312 | LUT | C10-C11-C12 | -2.43 | 115.64 | 123.22 |
| 25 | S | 304 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 25 | 7 | 302 | CLA | CAA-C2A-C1A | -2.43 | 104.03 | 111.97 |
| 25 | 6 | 605 | CLA | C1B-CHB-C4A | -2.43 | 125.31 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 817 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 33 | 5 | 308 | CHL | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 33 | 6 | 608 | CHL | C1D-ND-C4D | 2.43 | 108.06 | 106.33 |
| 25 | 5 | 302 | CLA | O2A-CGA-O1A | -2.43 | 117.47 | 123.59 |
| 27 | 5 | 301 | LHG | O8-C23-C24 | 2.43 | 119.52 | 111.91 |
| 25 | 4 | 307 | CLA | CMB-C2B-C3B | 2.42 | 129.22 | 124.68 |
| 25 | O | 203 | CLA | O2D-CGD-O1D | -2.42 | 118.58 | 124.09 |
| 34 | 6 | 619 | LUT | C3-C4-C5 | -2.42 | 107.02 | 111.85 |
| 25 | P | 602 | CLA | C1B-CHB-C4A | -2.42 | 125.31 | 130.12 |
| 25 | B | 828 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 28 | 8 | 301 | BCR | C39-C30-C25 | -2.42 | 106.37 | 110.30 |
| 25 | Q | 602 | CLA | CHD-C1D-ND | -2.42 | 122.23 | 124.45 |
| 28 | 3 | 317 | BCR | C29-C30-C25 | 2.42 | 114.21 | 110.48 |
| 25 | B | 804 | CLA | O2A-CGA-O1A | -2.42 | 117.48 | 123.59 |
| 34 | U | 314 | LUT | C31-C30-C29 | -2.42 | 123.86 | 127.31 |
| 25 | a | 304 | CLA | O2D-CGD-O1D | -2.42 | 119.11 | 123.84 |
| 25 | A | 802 | CLA | O1D-CGD-CBD | 2.42 | 129.44 | 124.48 |
| 25 | A | 804 | CLA | CAA-C2A-C3A | -2.42 | 106.15 | 112.78 |
| 33 | P | 619 | CHL | O2A-CGA-CBA | 2.42 | 119.50 | 111.91 |
| 25 | 1 | 610 | CLA | C2D-C1D-ND | -2.42 | 108.32 | 110.10 |
| 33 | R | 607 | CHL | O2A-CGA-CBA | 2.42 | 119.50 | 111.91 |
| 34 | a | 315 | LUT | C31-C30-C29 | -2.42 | 123.86 | 127.31 |
| 25 | S | 312 | CLA | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 25 | 3 | 302 | CLA | CAA-CBA-CGA | -2.42 | 106.19 | 113.25 |
| 33 | S | 309 | CHL | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 25 | S | 312 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 25 | a | 307 | CLA | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 25 | 2 | 303 | CLA | C2D-C1D-ND | -2.42 | 108.32 | 110.10 |
| 25 | 4 | 307 | CLA | O2D-CGD-O1D | -2.42 | 119.11 | 123.84 |
| 25 | 5 | 313 | CLA | C3C-C4C-NC | -2.42 | 107.86 | 110.57 |
| 28 | A | 854 | BCR | C10-C11-C12 | -2.41 | 115.68 | 123.22 |
| 25 | 4 | 313 | CLA | CMA-C3A-C2A | -2.41 | 110.46 | 116.10 |
| 34 | 9 | 312 | LUT | C35-C15-C14 | -2.41 | 118.53 | 123.47 |
| 25 | 7 | 313 | CLA | CHB-C4A-NA | 2.41 | 127.85 | 124.51 |
| 25 | 6 | 603 | CLA | C1B-CHB-C4A | -2.41 | 125.34 | 130.12 |
| 33 | 9 | 307 | CHL | C5-C3-C4 | 2.41 | 119.93 | 114.60 |
| 25 | S | 311 | CLA | CHB-C4A-NA | 2.41 | 127.85 | 124.51 |
| 33 | T | 605 | CHL | O2D-CGD-O1D | -2.41 | 119.12 | 123.84 |
| 34 | 2 | 316 | LUT | C39-C29-C28 | 2.41 | 121.88 | 118.08 |
| 28 | 6 | 621 | BCR | C21-C20-C19 | -2.41 | 115.69 | 123.22 |
| 35 | Q | 616 | XAT | C15-C35-C34 | -2.41 | 118.53 | 123.47 |
| 28 | A | 854 | BCR | C20-C21-C22 | -2.41 | 123.87 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 5 | 302 | CLA | CHB-C4A-NA | 2.41 | 127.85 | 124.51 |
| 25 | A | 806 | CLA | CAA-C2A-C3A | -2.41 | 106.17 | 112.78 |
| 34 | 1 | 617 | LUT | C20-C13-C14 | -2.41 | 119.54 | 122.92 |
| 25 | 6 | 601 | CLA | O2A-CGA-O1A | -2.41 | 117.50 | 123.59 |
| 25 | 1 | 602 | CLA | O2D-CGD-O1D | -2.41 | 119.12 | 123.84 |
| 25 | Q | 609 | CLA | CHB-C4A-NA | 2.41 | 127.85 | 124.51 |
| 25 | 4 | 312 | CLA | C1B-CHB-C4A | -2.41 | 125.34 | 130.12 |
| 25 | A | 814 | CLA | C16-C15-C13 | -2.41 | 108.13 | 115.92 |
| 25 | A | 804 | CLA | C1-C2-C3 | -2.41 | 121.87 | 126.04 |
| 28 | J | 101 | BCR | C10-C11-C12 | -2.41 | 115.69 | 123.22 |
| 25 | 2 | 310 | CLA | CAA-C2A-C3A | -2.41 | 110.47 | 116.10 |
| 25 | R | 604 | CLA | C1-C2-C3 | -2.41 | 122.85 | 126.75 |
| 34 | S | 317 | LUT | C16-C1-C6 | -2.41 | 106.39 | 110.30 |
| 25 | A | 834 | CLA | C1B-CHB-C4A | -2.41 | 125.34 | 130.12 |
| 28 | A | 854 | BCR | C15-C16-C17 | -2.41 | 118.54 | 123.47 |
| 34 | Q | 614 | LUT | C22-C23-C24 | 2.41 | 114.48 | 111.74 |
| 25 | A | 815 | CLA | O2A-CGA-O1A | -2.41 | 117.51 | 123.59 |
| 33 | 5 | 308 | CHL | C5-C3-C4 | 2.41 | 119.92 | 114.60 |
| 25 | A | 812 | CLA | CHB-C4A-NA | 2.41 | 127.84 | 124.51 |
| 28 | 3 | 318 | BCR | C16-C15-C14 | -2.41 | 118.54 | 123.47 |
| 33 | T | 601 | CHL | O2D-CGD-O1D | -2.41 | 119.13 | 123.84 |
| 25 | B | 815 | CLA | O2A-CGA-O1A | -2.41 | 117.51 | 123.59 |
| 33 | S | 308 | CHL | O2A-CGA-CBA | 2.41 | 119.47 | 111.91 |
| 25 | B | 814 | CLA | C1-C2-C3 | -2.41 | 121.88 | 126.04 |
| 33 | T | 601 | CHL | CHD-C1D-C2D | 2.41 | 130.53 | 125.48 |
| 25 | Q | 611 | CLA | C4D-CHA-C1A | 2.41 | 124.18 | 121.25 |
| 28 | J | 106 | BCR | C8-C7-C6 | -2.41 | 120.44 | 127.20 |
| 25 | 9 | 309 | CLA | O2A-CGA-O1A | -2.41 | 117.52 | 123.59 |
| 25 | A | 826 | CLA | C2D-C1D-ND | -2.41 | 108.33 | 110.10 |
| 25 | 8 | 303 | CLA | C1B-CHB-C4A | -2.41 | 125.35 | 130.12 |
| 25 | B | 830 | CLA | O2D-CGD-CBD | 2.41 | 115.54 | 111.27 |
| 25 | A | 842 | CLA | C1B-CHB-C4A | -2.40 | 125.35 | 130.12 |
| 34 | 3 | 316 | LUT | C35-C15-C14 | -2.40 | 118.55 | 123.47 |
| 33 | S | 309 | CHL | O2A-CGA-CBA | 2.40 | 119.45 | 111.91 |
| 25 | 1 | 603 | CLA | C2D-C1D-ND | -2.40 | 108.33 | 110.10 |
| 27 | 7 | 317 | LHG | O8-C23-C24 | 2.40 | 119.45 | 111.91 |
| 33 | R | 606 | CHL | C1B-CHB-C4A | -2.40 | 125.36 | 130.12 |
| 33 | R | 601 | CHL | CHD-C1D-C2D | 2.40 | 130.52 | 125.48 |
| 25 | 3 | 308 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 34 | P | 615 | LUT | C38-C25-C24 | -2.40 | 118.42 | 123.56 |
| 28 | K | 206 | BCR | C2-C1-C6 | 2.40 | 114.18 | 110.48 |
| 25 | B | 827 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | 5 | 322 | LUT | C30-C31-C32 | -2.40 | 115.73 | 123.22 |
| 25 | 4 | 313 | CLA | C1B-CHB-C4A | -2.40 | 125.36 | 130.12 |
| 28 | A | 845 | BCR | C31-C1-C6 | -2.40 | 106.41 | 110.30 |
| 25 | 2 | 305 | CLA | O2D-CGD-O1D | -2.40 | 119.15 | 123.84 |
| 25 | 3 | 310 | CLA | C1B-CHB-C4A | -2.40 | 125.37 | 130.12 |
| 25 | Q | 611 | CLA | O1D-CGD-CBD | 2.40 | 129.39 | 124.48 |
| 28 | L | 208 | BCR | C4-C5-C6 | -2.40 | 119.25 | 122.73 |
| 33 | P | 608 | CHL | C4A-NA-C1A | -2.40 | 105.63 | 106.71 |
| 25 | 9 | 308 | CLA | O2D-CGD-O1D | -2.40 | 119.15 | 123.84 |
| 36 | U | 316 | NEX | C38-C25-C24 | 2.40 | 116.98 | 114.28 |
| 25 | B | 825 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 33 | P | 601 | CHL | CHD-C1D-C2D | 2.40 | 130.51 | 125.48 |
| 25 | S | 312 | CLA | O2D-CGD-O1D | -2.40 | 119.15 | 123.84 |
| 25 | 3 | 304 | CLA | C1B-CHB-C4A | -2.40 | 125.37 | 130.12 |
| 33 | U | 307 | CHL | C4-C3-C5 | 2.40 | 119.30 | 115.27 |
| 33 | P | 601 | CHL | OMC-CMC-C2C | -2.40 | 120.27 | 125.69 |
| 28 | A | 854 | BCR | C21-C20-C19 | -2.40 | 115.74 | 123.22 |
| 25 | 9 | 303 | CLA | CHB-C4A-NA | 2.40 | 127.82 | 124.51 |
| 33 | Q | 601 | CHL | CHD-C1D-C2D | 2.39 | 130.50 | 125.48 |
| 25 | 9 | 308 | CLA | O2A-CGA-O1A | -2.39 | 117.55 | 123.59 |
| 34 | S | 317 | LUT | C10-C11-C12 | -2.39 | 115.74 | 123.22 |
| 27 | 4 | 318 | LHG | O8-C23-C24 | 2.39 | 119.42 | 111.91 |
| 34 | 8 | 316 | LUT | C8-C7-C6 | -2.39 | 120.48 | 127.20 |
| 33 | U | 309 | CHL | C3B-C4B-NB | 2.39 | 112.30 | 109.21 |
| 25 | A | 832 | CLA | C1B-CHB-C4A | -2.39 | 125.38 | 130.12 |
| 28 | L | 203 | BCR | C2-C1-C6 | 2.39 | 114.17 | 110.48 |
| 25 | 1 | 602 | CLA | CMB-C2B-C3B | 2.39 | 129.16 | 124.68 |
| 25 | B | 823 | CLA | O2A-CGA-O1A | -2.39 | 117.56 | 123.59 |
| 33 | T | 605 | CHL | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 25 | 9 | 311 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 25 | a | 311 | CLA | O1D-CGD-CBD | 2.39 | 129.38 | 124.48 |
| 34 | 2 | 315 | LUT | C28-C29-C30 | -2.39 | 115.27 | 118.94 |
| 25 | T | 611 | CLA | C1B-CHB-C4A | -2.39 | 125.38 | 130.12 |
| 25 | B | 824 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 33 | 5 | 308 | CHL | CHC-C1C-NC | 2.39 | 127.83 | 124.20 |
| 25 | B | 838 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 33 | 6 | 608 | CHL | O2D-CGD-O1D | -2.39 | 119.17 | 123.84 |
| 25 | B | 812 | CLA | CAC-C3C-C4C | 2.39 | 127.91 | 124.81 |
| 34 | a | 315 | LUT | C35-C15-C14 | -2.39 | 118.58 | 123.47 |
| 25 | 2 | 308 | CLA | CAA-C2A-C1A | -2.39 | 104.15 | 111.97 |
| 33 | R | 601 | CHL | C4A-NA-C1A | 2.39 | 107.78 | 106.71 |
| 33 | 6 | 617 | CHL | O2D-CGD-O1D | -2.39 | 119.17 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | U | 315 | LUT | C38-C25-C24 | -2.39 | 118.45 | 123.56 |
| 33 | 4 | 305 | CHL | CHD-C1D-C2D | 2.39 | 130.48 | 125.48 |
| 33 | S | 302 | CHL | C6-C5-C3 | -2.39 | 110.72 | 114.62 |
| 25 | 8 | 309 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 25 | 8 | 310 | CLA | CHB-C4A-NA | 2.38 | 127.81 | 124.51 |
| 33 | R | 601 | CHL | OMC-CMC-C2C | -2.38 | 120.30 | 125.69 |
| 28 | 7 | 316 | BCR | C1-C6-C7 | 2.38 | 122.52 | 115.78 |
| 34 | 1 | 617 | LUT | C2-C3-C4 | 2.38 | 113.57 | 110.30 |
| 25 | a | 307 | CLA | O2A-CGA-O1A | -2.38 | 117.58 | 123.59 |
| 33 | Q | 605 | CHL | O2D-CGD-O1D | -2.38 | 119.18 | 123.84 |
| 25 | P | 604 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |
| 25 | a | 306 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |
| 28 | 3 | 317 | BCR | C1-C6-C7 | 2.38 | 122.52 | 115.78 |
| 25 | 7 | 308 | CLA | CMB-C2B-C3B | 2.38 | 129.14 | 124.68 |
| 25 | a | 308 | CLA | C2D-C1D-ND | -2.38 | 108.35 | 110.10 |
| 34 | 6 | 619 | LUT | C22-C23-C24 | 2.38 | 114.45 | 111.74 |
| 33 | Q | 601 | CHL | C4A-NA-C1A | 2.38 | 107.78 | 106.71 |
| 25 | U | 310 | CLA | CHB-C4A-NA | 2.38 | 127.81 | 124.51 |
| 33 | R | 606 | CHL | O2A-CGA-O1A | -2.38 | 117.58 | 123.59 |
| 28 | B | 843 | BCR | C8-C7-C6 | -2.38 | 120.51 | 127.20 |
| 25 | B | 813 | CLA | O2A-CGA-O1A | -2.38 | 117.58 | 123.59 |
| 25 | 6 | 604 | CLA | CMB-C2B-C3B | 2.38 | 129.13 | 124.68 |
| 25 | A | 808 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |
| 25 | B | 814 | CLA | O2A-CGA-O1A | -2.38 | 117.58 | 123.59 |
| 34 | 3 | 316 | LUT | C2-C3-C4 | -2.38 | 107.05 | 110.30 |
| 25 | 6 | 601 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |
| 25 | Q | 604 | CLA | C1B-CHB-C4A | -2.38 | 125.40 | 130.12 |
| 33 | Q | 601 | CHL | OMC-CMC-C2C | -2.38 | 120.31 | 125.69 |
| 34 | 3 | 316 | LUT | C38-C25-C24 | -2.38 | 118.47 | 123.56 |
| 33 | U | 305 | CHL | C2A-C3A-C4A | -2.38 | 98.03 | 101.87 |
| 25 | 5 | 311 | CLA | C1B-CHB-C4A | -2.38 | 125.41 | 130.12 |
| 25 | A | 840 | CLA | O2D-CGD-CBD | 2.38 | 115.49 | 111.27 |
| 33 | U | 309 | CHL | CMB-C2B-C3B | 2.38 | 129.13 | 124.68 |
| 33 | 5 | 307 | CHL | OMC-CMC-C2C | -2.38 | 120.31 | 125.69 |
| 33 | 1 | 601 | CHL | O1D-CGD-CBD | -2.38 | 119.62 | 124.48 |
| 33 | T | 601 | CHL | CHC-C1C-NC | 2.38 | 127.81 | 124.20 |
| 33 | S | 308 | CHL | CHB-C4A-NA | 2.38 | 127.80 | 124.51 |
| 25 | T | 609 | CLA | CHA-C1A-NA | -2.38 | 120.96 | 126.40 |
| 25 | B | 836 | CLA | O2A-CGA-O1A | -2.37 | 117.60 | 123.59 |
| 28 | B | 851 | BCR | C11-C10-C9 | -2.37 | 123.92 | 127.31 |
| 33 | S | 309 | CHL | CED-O2D-CGD | 2.37 | 121.31 | 115.94 |
| 25 | 5 | 314 | CLA | O2D-CGD-CBD | 2.37 | 115.49 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 842 | CLA | CMC-C2C-C3C | 2.37 | 132.56 | 126.12 |
| 25 | A | 853 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 25 | 6 | 620 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 25 | U | 304 | CLA | C1-C2-C3 | -2.37 | 122.91 | 126.75 |
| 34 | 1 | 615 | LUT | C7-C8-C9 | -2.37 | 122.65 | 126.23 |
| 34 | 5 | 318 | LUT | C7-C8-C9 | -2.37 | 122.65 | 126.23 |
| 25 | T | 602 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 25 | A | 822 | CLA | O2A-CGA-O1A | -2.37 | 117.61 | 123.59 |
| 34 | 2 | 315 | LUT | C40-C33-C34 | -2.37 | 119.60 | 122.92 |
| 25 | K | 202 | CLA | O2A-CGA-O1A | -2.37 | 117.39 | 123.30 |
| 25 | A | 810 | CLA | CMB-C2B-C3B | 2.37 | 129.12 | 124.68 |
| 25 | 7 | 313 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 25 | 4 | 309 | CLA | O2A-CGA-O1A | -2.37 | 117.61 | 123.59 |
| 30 | B | 848 | DGD | O6D-C5D-C4D | -2.37 | 105.39 | 109.69 |
| 25 | 6 | 611 | CLA | O2A-CGA-O1A | -2.37 | 117.61 | 123.59 |
| 25 | A | 807 | CLA | O2A-CGA-O1A | -2.37 | 117.61 | 123.59 |
| 25 | 1 | 603 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 28 | F | 801 | BCR | C11-C10-C9 | -2.37 | 123.93 | 127.31 |
| 25 | 8 | 312 | CLA | CMB-C2B-C3B | 2.37 | 129.11 | 124.68 |
| 33 | S | 306 | CHL | O2A-CGA-CBA | 2.37 | 119.34 | 111.91 |
| 28 | 4 | 321 | BCR | C15-C16-C17 | -2.37 | 118.62 | 123.47 |
| 34 | 3 | 315 | LUT | C10-C11-C12 | -2.37 | 115.82 | 123.22 |
| 25 | 6 | 604 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 28 | B | 842 | BCR | C23-C22-C21 | 2.37 | 122.57 | 118.94 |
| 25 | A | 837 | CLA | O2D-CGD-CBD | 2.37 | 115.47 | 111.27 |
| 34 | 8 | 316 | LUT | C3-C4-C5 | -2.37 | 107.14 | 111.85 |
| 28 | B | 851 | BCR | C23-C24-C25 | -2.37 | 120.55 | 127.20 |
| 34 | 7 | 315 | LUT | C21-C26-C27 | -2.37 | 109.71 | 112.70 |
| 34 | 7 | 315 | LUT | C16-C1-C6 | -2.37 | 106.46 | 110.30 |
| 25 | a | 307 | CLA | O2D-CGD-O1D | -2.37 | 119.21 | 123.84 |
| 25 | B | 830 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 25 | 2 | 308 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 25 | a | 310 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 34 | 8 | 317 | LUT | C30-C31-C32 | -2.37 | 115.84 | 123.22 |
| 25 | R | 612 | CLA | C3A-C2A-C1A | 2.36 | 104.88 | 101.34 |
| 25 | 1 | 605 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 25 | 6 | 616 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 33 | 3 | 306 | CHL | C1B-CHB-C4A | -2.36 | 125.43 | 130.12 |
| 34 | R | 616 | LUT | C8-C9-C10 | -2.36 | 115.31 | 118.94 |
| 33 | 5 | 307 | CHL | C5-C3-C4 | 2.36 | 119.83 | 114.60 |
| 28 | J | 101 | BCR | C15-C14-C13 | -2.36 | 123.94 | 127.31 |
| 25 | P | 612 | CLA | C3A-C2A-C1A | 2.36 | 104.88 | 101.34 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 823 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 25 | A | 821 | CLA | C2D-C1D-ND | -2.36 | 108.36 | 110.10 |
| 34 | 4 | 316 | LUT | C20-C13-C12 | 2.36 | 121.80 | 118.08 |
| 25 | 3 | 308 | CLA | O2D-CGD-O1D | -2.36 | 119.22 | 123.84 |
| 33 | S | 309 | CHL | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 25 | 8 | 302 | CLA | CAC-C3C-C4C | 2.36 | 127.88 | 124.81 |
| 33 | S | 321 | CHL | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 25 | S | 303 | CLA | C1-C2-C3 | -2.36 | 121.96 | 126.04 |
| 33 | P | 601 | CHL | C4A-NA-C1A | 2.36 | 107.77 | 106.71 |
| 27 | a | 317 | LHG | O8-C23-C24 | 2.36 | 119.32 | 111.91 |
| 28 | A | 845 | BCR | C34-C9-C10 | -2.36 | 119.61 | 122.92 |
| 34 | 7 | 315 | LUT | C10-C11-C12 | -2.36 | 115.85 | 123.22 |
| 25 | 8 | 314 | CLA | O2A-CGA-O1A | -2.36 | 117.63 | 123.59 |
| 33 | S | 321 | CHL | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 28 | B | 840 | BCR | C36-C18-C17 | -2.36 | 119.62 | 122.92 |
| 35 | P | 620 | XAT | C31-C32-C33 | -2.36 | 119.78 | 126.42 |
| 25 | 9 | 309 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 25 | 7 | 311 | CLA | C1-C2-C3 | -2.36 | 121.96 | 126.04 |
| 28 | F | 801 | BCR | C36-C18-C17 | -2.36 | 119.62 | 122.92 |
| 25 | Q | 602 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 25 | B | 822 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 25 | Q | 613 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 33 | 7 | 305 | CHL | OMC-CMC-C2C | -2.36 | 120.35 | 125.69 |
| 25 | A | 830 | CLA | O2A-CGA-O1A | -2.36 | 117.64 | 123.59 |
| 25 | 5 | 309 | CLA | C1-C2-C3 | -2.36 | 122.94 | 126.75 |
| 33 | P | 619 | CHL | C4A-NA-C1A | -2.36 | 105.65 | 106.71 |
| 34 | a | 314 | LUT | C18-C5-C4 | 2.36 | 118.72 | 114.36 |
| 25 | A | 839 | CLA | O2A-CGA-O1A | -2.36 | 117.64 | 123.59 |
| 34 | P | 615 | LUT | C18-C5-C4 | 2.36 | 118.72 | 114.36 |
| 33 | U | 309 | CHL | CHD-C1D-C2D | 2.36 | 130.42 | 125.48 |
| 34 | 1 | 617 | LUT | C40-C33-C34 | -2.36 | 119.62 | 122.92 |
| 36 | U | 301 | NEX | C19-C9-C10 | -2.36 | 119.62 | 122.92 |
| 25 | L | 206 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 25 | 1 | 608 | CLA | O2D-CGD-O1D | -2.36 | 119.23 | 123.84 |
| 25 | A | 840 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 28 | O | 204 | BCR | C10-C11-C12 | -2.36 | 115.87 | 123.22 |
| 36 | P | 617 | NEX | C40-C33-C34 | -2.36 | 119.62 | 122.92 |
| 25 | 1 | 611 | CLA | CHB-C4A-NA | 2.35 | 127.77 | 124.51 |
| 33 | R | 607 | CHL | CHB-C4A-NA | 2.35 | 127.77 | 124.51 |
| 25 | R | 612 | CLA | CMB-C2B-C1B | -2.35 | 124.84 | 128.46 |
| 25 | 5 | 313 | CLA | CMB-C2B-C3B | 2.35 | 129.08 | 124.68 |
| 25 | B | 831 | CLA | C1B-CHB-C4A | -2.35 | 125.45 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 813 | CLA | O2D-CGD-CBD | 2.35 | 115.45 | 111.27 |
| 25 | R | 614 | CLA | O2A-CGA-O1A | -2.35 | 117.65 | 123.59 |
| 28 | A | 848 | BCR | C21-C20-C19 | -2.35 | 115.87 | 123.22 |
| 33 | T | 607 | CHL | O2D-CGD-O1D | -2.35 | 119.24 | 123.84 |
| 25 | A | 829 | CLA | CHB-C4A-NA | 2.35 | 127.77 | 124.51 |
| 25 | 1 | 613 | CLA | O2A-CGA-O1A | -2.35 | 117.66 | 123.59 |
| 25 | B | 835 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 25 | 8 | 302 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 25 | A | 853 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 34 | 6 | 619 | LUT | C20-C13-C14 | -2.35 | 119.63 | 122.92 |
| 25 | 1 | 605 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 25 | 3 | 309 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 25 | 7 | 307 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 33 | 4 | 322 | CHL | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 25 | B | 826 | CLA | O2D-CGD-CBD | 2.35 | 115.44 | 111.27 |
| 28 | B | 844 | BCR | C16-C17-C18 | -2.35 | 123.96 | 127.31 |
| 35 | P | 623 | XAT | C4-C3-C2 | -2.35 | 106.24 | 110.77 |
| 25 | A | 824 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 25 | A | 821 | CLA | O2D-CGD-CBD | 2.35 | 115.44 | 111.27 |
| 25 | 3 | 311 | CLA | O2A-CGA-O1A | -2.35 | 117.66 | 123.59 |
| 25 | 8 | 313 | CLA | C1B-CHB-C4A | -2.35 | 125.47 | 130.12 |
| 25 | B | 808 | CLA | C1-C2-C3 | -2.35 | 121.98 | 126.04 |
| 28 | A | 845 | BCR | C36-C18-C17 | -2.35 | 119.63 | 122.92 |
| 25 | 5 | 305 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 25 | B | 832 | CLA | C1B-CHB-C4A | -2.35 | 125.47 | 130.12 |
| 25 | 5 | 311 | CLA | O2D-CGD-O1D | -2.35 | 119.25 | 123.84 |
| 25 | R | 613 | CLA | O2A-CGA-O1A | -2.35 | 117.67 | 123.59 |
| 34 | T | 613 | LUT | C22-C23-C24 | 2.35 | 114.41 | 111.74 |
| 25 | 7 | 309 | CLA | C1B-CHB-C4A | -2.35 | 125.47 | 130.12 |
| 25 | A | 807 | CLA | C1B-CHB-C4A | -2.35 | 125.47 | 130.12 |
| 25 | S | 304 | CLA | CHD-C1D-ND | -2.34 | 122.30 | 124.45 |
| 33 | Q | 607 | CHL | C4A-NA-C1A | -2.34 | 105.65 | 106.71 |
| 28 | L | 208 | BCR | C16-C17-C18 | -2.34 | 123.97 | 127.31 |
| 25 | T | 610 | CLA | O2A-CGA-O1A | -2.34 | 117.68 | 123.59 |
| 25 | P | 612 | CLA | CMB-C2B-C1B | -2.34 | 124.86 | 128.46 |
| 25 | 4 | 311 | CLA | O2D-CGD-CBD | 2.34 | 115.43 | 111.27 |
| 34 | 6 | 619 | LUT | C8-C7-C6 | -2.34 | 120.62 | 127.20 |
| 25 | 4 | 302 | CLA | CMB-C2B-C3B | 2.34 | 129.06 | 124.68 |
| 34 | 6 | 622 | LUT | C18-C5-C4 | 2.34 | 118.70 | 114.36 |
| 34 | 1 | 615 | LUT | C39-C29-C28 | 2.34 | 121.77 | 118.08 |
| 25 | R | 613 | CLA | C16-C15-C13 | -2.34 | 108.35 | 115.92 |
| 25 | 1 | 604 | CLA | O2D-CGD-O1D | -2.34 | 119.26 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 4 | 310 | CLA | CHA-C1A-NA | -2.34 | 121.03 | 126.40 |
| 25 | 2 | 304 | CLA | CMB-C2B-C3B | 2.34 | 129.06 | 124.68 |
| 34 | 7 | 315 | LUT | C35-C15-C14 | -2.34 | 118.68 | 123.47 |
| 25 | R | 613 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 25 | 5 | 302 | CLA | C2D-C1D-ND | -2.34 | 108.38 | 110.10 |
| 25 | B | 811 | CLA | O2A-CGA-O1A | -2.34 | 117.69 | 123.59 |
| 25 | A | 810 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 25 | 8 | 306 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 25 | J | 105 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 25 | S | 301 | CLA | C2D-C1D-ND | -2.34 | 108.38 | 110.10 |
| 28 | A | 848 | BCR | C34-C9-C10 | -2.34 | 119.65 | 122.92 |
| 35 | P | 623 | XAT | C31-C32-C33 | -2.34 | 119.84 | 126.42 |
| 25 | 4 | 308 | CLA | CHB-C4A-NA | 2.34 | 127.75 | 124.51 |
| 25 | a | 304 | CLA | CMB-C2B-C3B | 2.34 | 129.05 | 124.68 |
| 25 | A | 825 | CLA | O2A-CGA-O1A | -2.34 | 117.69 | 123.59 |
| 25 | B | 849 | CLA | CHB-C4A-NA | 2.34 | 127.74 | 124.51 |
| 33 | P | 605 | CHL | C2A-C3A-C4A | -2.34 | 98.09 | 101.87 |
| 25 | 3 | 308 | CLA | C1B-CHB-C4A | -2.34 | 125.49 | 130.12 |
| 25 | a | 313 | CLA | C1B-CHB-C4A | -2.34 | 125.49 | 130.12 |
| 25 | 3 | 307 | CLA | O2D-CGD-O1D | -2.34 | 119.27 | 123.84 |
| 33 | 6 | 608 | CHL | CHA-C1A-NA | 2.34 | 131.75 | 126.40 |
| 25 | B | 816 | CLA | CAA-CBA-CGA | -2.34 | 106.43 | 113.25 |
| 34 | 1 | 616 | LUT | C38-C25-C24 | -2.34 | 118.56 | 123.56 |
| 33 | P | 619 | CHL | CHB-C4A-NA | 2.34 | 127.74 | 124.51 |
| 34 | 4 | 316 | LUT | C8-C7-C6 | -2.34 | 120.64 | 127.20 |
| 34 | 8 | 316 | LUT | C10-C11-C12 | -2.33 | 115.93 | 123.22 |
| 25 | 6 | 604 | CLA | C1B-CHB-C4A | -2.33 | 125.49 | 130.12 |
| 25 | A | 824 | CLA | CHB-C4A-NA | 2.33 | 127.74 | 124.51 |
| 34 | 6 | 619 | LUT | C7-C8-C9 | -2.33 | 122.71 | 126.23 |
| 33 | P | 622 | CHL | O2D-CGD-O1D | -2.33 | 119.28 | 123.84 |
| 33 | R | 608 | CHL | C4A-NA-C1A | -2.33 | 105.66 | 106.71 |
| 33 | P | 607 | CHL | CHB-C4A-NA | 2.33 | 127.74 | 124.51 |
| 25 | 6 | 613 | CLA | C1B-CHB-C4A | -2.33 | 125.50 | 130.12 |
| 25 | 8 | 302 | CLA | C1B-CHB-C4A | -2.33 | 125.50 | 130.12 |
| 25 | 1 | 612 | CLA | O2A-CGA-O1A | -2.33 | 117.71 | 123.59 |
| 28 | 4 | 321 | BCR | C21-C20-C19 | -2.33 | 115.94 | 123.22 |
| 34 | 1 | 616 | LUT | C19-C9-C10 | -2.33 | 119.66 | 122.92 |
| 25 | T | 602 | CLA | CHB-C4A-NA | 2.33 | 127.73 | 124.51 |
| 25 | T | 603 | CLA | C1-C2-C3 | -2.33 | 122.98 | 126.75 |
| 34 | 7 | 315 | LUT | C20-C13-C12 | 2.33 | 121.75 | 118.08 |
| 25 | S | 301 | CLA | O2A-CGA-O1A | -2.33 | 117.71 | 123.59 |
| 25 | T | 610 | CLA | CHB-C4A-NA | 2.33 | 127.73 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | K | 206 | BCR | C29-C30-C25 | 2.33 | 114.07 | 110.48 |
| 34 | 7 | 314 | LUT | C1-C2-C3 | 2.33 | 118.90 | 113.64 |
| 28 | J | 101 | BCR | C11-C10-C9 | -2.33 | 123.99 | 127.31 |
| 25 | 5 | 312 | CLA | C1B-CHB-C4A | -2.33 | 125.51 | 130.12 |
| 25 | G | 202 | CLA | CAA-C2A-C3A | -2.33 | 106.41 | 112.78 |
| 33 | S | 310 | CHL | CHC-C1C-NC | 2.33 | 127.73 | 124.20 |
| 25 | U | 311 | CLA | CHA-C1A-NA | -2.33 | 121.07 | 126.40 |
| 25 | A | 830 | CLA | C1B-CHB-C4A | -2.32 | 125.51 | 130.12 |
| 28 | A | 846 | BCR | C10-C11-C12 | -2.32 | 115.96 | 123.22 |
| 34 | 4 | 316 | LUT | C15-C14-C13 | -2.32 | 123.99 | 127.31 |
| 25 | A | 814 | CLA | O2D-CGD-O1D | -2.32 | 119.29 | 123.84 |
| 28 | A | 845 | BCR | C38-C26-C27 | 2.32 | 118.08 | 113.62 |
| 34 | 1 | 616 | LUT | C21-C26-C27 | -2.32 | 109.77 | 112.70 |
| 33 | U | 305 | CHL | C4A-NA-C1A | -2.32 | 105.66 | 106.71 |
| 25 | H | 202 | CLA | CHB-C4A-NA | 2.32 | 127.72 | 124.51 |
| 26 | B | 839 | PQN | C2M-C2-C3 | -2.32 | 120.61 | 124.40 |
| 25 | S | 311 | CLA | C1B-CHB-C4A | -2.32 | 125.52 | 130.12 |
| 34 | 1 | 616 | LUT | C30-C31-C32 | -2.32 | 115.97 | 123.22 |
| 34 | 1 | 616 | LUT | C31-C30-C29 | -2.32 | 124.00 | 127.31 |
| 33 | Q | 606 | CHL | O2D-CGD-O1D | -2.32 | 119.30 | 123.84 |
| 35 | S | 318 | XAT | C18-C5-C4 | 2.32 | 116.89 | 114.28 |
| 35 | P | 616 | XAT | C10-C11-C12 | -2.32 | 115.98 | 123.22 |
| 28 | 5 | 323 | BCR | C36-C18-C19 | -2.32 | 114.42 | 118.08 |
| 25 | B | 819 | CLA | O2D-CGD-CBD | 2.32 | 115.39 | 111.27 |
| 25 | 2 | 309 | CLA | C7-C6-C5 | -2.32 | 107.06 | 113.36 |
| 25 | B | 832 | CLA | CMB-C2B-C3B | 2.32 | 129.02 | 124.68 |
| 34 | U | 315 | LUT | C39-C29-C30 | -2.32 | 119.67 | 122.92 |
| 33 | T | 606 | CHL | O2D-CGD-O1D | -2.32 | 119.30 | 123.84 |
| 25 | R | 604 | CLA | O2A-CGA-O1A | -2.32 | 117.74 | 123.59 |
| 34 | 2 | 316 | LUT | C3-C4-C5 | -2.32 | 107.24 | 111.85 |
| 28 | B | 841 | BCR | C21-C20-C19 | -2.32 | 115.98 | 123.22 |
| 34 | 5 | 322 | LUT | C11-C10-C9 | -2.32 | 124.00 | 127.31 |
| 34 | 1 | 616 | LUT | C35-C15-C14 | -2.32 | 118.73 | 123.47 |
| 25 | 2 | 306 | CLA | CHB-C4A-NA | 2.32 | 127.72 | 124.51 |
| 25 | U | 304 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 25 | 1 | 603 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 25 | 8 | 312 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 33 | S | 307 | CHL | C3C-C4C-NC | 2.32 | 113.17 | 110.57 |
| 25 | 1 | 614 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 25 | B | 827 | CLA | O1D-CGD-CBD | 2.32 | 129.22 | 124.48 |
| 28 | B | 840 | BCR | C34-C9-C10 | -2.32 | 119.68 | 122.92 |
| 25 | A | 825 | CLA | O1D-CGD-CBD | 2.32 | 129.22 | 124.48 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 6 | 610 | CLA | CMB-C2B-C3B | 2.32 | 129.01 | 124.68 |
| 28 | O | 205 | BCR | C37-C22-C21 | -2.32 | 119.68 | 122.92 |
| 25 | 2 | 310 | CLA | O2D-CGD-O1D | -2.31 | 119.31 | 123.84 |
| 28 | O | 204 | BCR | C20-C19-C18 | -2.31 | 119.91 | 126.42 |
| 33 | 1 | 606 | CHL | CHC-C1C-NC | 2.31 | 127.72 | 124.20 |
| 25 | 5 | 310 | CLA | O1D-CGD-CBD | 2.31 | 129.22 | 124.48 |
| 28 | K | 206 | BCR | C15-C16-C17 | 2.31 | 128.22 | 123.47 |
| 25 | T | 603 | CLA | C1B-CHB-C4A | -2.31 | 125.53 | 130.12 |
| 33 | R | 609 | CHL | OMC-CMC-C2C | -2.31 | 120.45 | 125.69 |
| 33 | S | 309 | CHL | O2D-CGD-O1D | -2.31 | 119.31 | 123.84 |
| 34 | 5 | 322 | LUT | C10-C11-C12 | -2.31 | 116.00 | 123.22 |
| 25 | A | 842 | CLA | CBC-CAC-C3C | 2.31 | 118.81 | 112.43 |
| 25 | A | 829 | CLA | CMB-C2B-C3B | 2.31 | 129.00 | 124.68 |
| 33 | S | 321 | CHL | O1D-CGD-CBD | -2.31 | 119.75 | 124.48 |
| 33 | 4 | 305 | CHL | C5-C3-C4 | 2.31 | 119.71 | 114.60 |
| 25 | R | 612 | CLA | O2A-CGA-O1A | -2.31 | 117.76 | 123.59 |
| 25 | 2 | 311 | CLA | C2A-C1A-CHA | 2.31 | 127.90 | 123.86 |
| 25 | A | 809 | CLA | O2A-CGA-O1A | -2.31 | 117.76 | 123.59 |
| 25 | A | 802 | CLA | CAA-C2A-C1A | -2.31 | 104.41 | 111.97 |
| 33 | R | 606 | CHL | OMC-CMC-C2C | -2.31 | 120.47 | 125.69 |
| 25 | A | 836 | CLA | O2A-CGA-O1A | -2.31 | 117.76 | 123.59 |
| 25 | U | 310 | CLA | CHD-C1D-ND | -2.31 | 122.33 | 124.45 |
| 25 | B | 806 | CLA | CHB-C4A-NA | 2.31 | 127.70 | 124.51 |
| 25 | A | 836 | CLA | C1B-CHB-C4A | -2.31 | 125.54 | 130.12 |
| 28 | B | 842 | BCR | C15-C16-C17 | -2.31 | 118.75 | 123.47 |
| 28 | 3 | 317 | BCR | C37-C22-C21 | -2.31 | 119.69 | 122.92 |
| 30 | B | 846 | DGD | O6D-C5D-C6D | 2.31 | 111.32 | 106.67 |
| 33 | U | 307 | CHL | CHB-C4A-NA | 2.31 | 127.70 | 124.51 |
| 25 | 3 | 302 | CLA | C2D-C1D-ND | -2.31 | 108.40 | 110.10 |
| 28 | A | 846 | BCR | C31-C1-C6 | -2.31 | 106.56 | 110.30 |
| 33 | Q | 608 | CHL | OMC-CMC-C2C | -2.31 | 120.47 | 125.69 |
| 28 | A | 847 | BCR | C8-C7-C6 | -2.31 | 120.73 | 127.20 |
| 34 | 3 | 316 | LUT | C16-C1-C6 | -2.31 | 106.56 | 110.30 |
| 25 | A | 810 | CLA | O2A-CGA-O1A | -2.31 | 117.77 | 123.59 |
| 36 | U | 316 | NEX | C40-C33-C34 | -2.31 | 119.69 | 122.92 |
| 25 | Q | 602 | CLA | CHB-C4A-NA | 2.30 | 127.70 | 124.51 |
| 25 | A | 842 | CLA | CMB-C2B-C3B | 2.30 | 128.99 | 124.68 |
| 34 | R | 616 | LUT | C16-C1-C6 | -2.30 | 106.56 | 110.30 |
| 25 | P | 604 | CLA | O2A-CGA-O1A | -2.30 | 117.78 | 123.59 |
| 33 | P | 601 | CHL | CHC-C1C-NC | 2.30 | 127.70 | 124.20 |
| 25 | R | 611 | CLA | C2A-C1A-CHA | 2.30 | 127.89 | 123.86 |
| 25 | 6 | 603 | CLA | CMB-C2B-C3B | 2.30 | 128.99 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 1 | 602 | CLA | CHB-C4A-NA | 2.30 | 127.70 | 124.51 |
| 25 | 6 | 613 | CLA | CMB-C2B-C3B | 2.30 | 128.99 | 124.68 |
| 33 | 1 | 606 | CHL | CMB-C2B-C3B | 2.30 | 128.99 | 124.68 |
| 33 | S | 321 | CHL | O2A-CGA-CBA | 2.30 | 119.14 | 111.91 |
| 25 | A | 803 | CLA | CAA-CBA-CGA | -2.30 | 106.52 | 113.25 |
| 25 | A | 840 | CLA | CAA-CBA-CGA | -2.30 | 106.52 | 113.25 |
| 33 | U | 307 | CHL | C6-C5-C3 | -2.30 | 110.85 | 114.62 |
| 25 | P | 612 | CLA | O2A-CGA-O1A | -2.30 | 117.78 | 123.59 |
| 28 | F | 803 | BCR | C37-C22-C23 | 2.30 | 121.70 | 118.08 |
| 25 | 6 | 603 | CLA | CHB-C4A-NA | 2.30 | 127.70 | 124.51 |
| 25 | 6 | 605 | CLA | CHB-C4A-NA | 2.30 | 127.70 | 124.51 |
| 33 | 6 | 606 | CHL | C4-C3-C5 | 2.30 | 119.14 | 115.27 |
| 25 | a | 311 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 25 | B | 821 | CLA | O2A-CGA-O1A | -2.30 | 117.78 | 123.59 |
| 25 | F | 802 | CLA | O2A-CGA-O1A | -2.30 | 117.56 | 123.30 |
| 25 | a | 306 | CLA | CHD-C1D-ND | -2.30 | 122.34 | 124.45 |
| 27 | 5 | 301 | LHG | C6-C5-C4 | -2.30 | 106.34 | 111.79 |
| 25 | R | 610 | CLA | O2A-CGA-O1A | -2.30 | 117.78 | 123.59 |
| 25 | R | 610 | CLA | CHB-C4A-NA | 2.30 | 127.69 | 124.51 |
| 25 | 7 | 310 | CLA | CMB-C2B-C3B | 2.30 | 128.98 | 124.68 |
| 25 | 1 | 609 | CLA | CAA-C2A-C3A | -2.30 | 106.48 | 112.78 |
| 25 | R | 604 | CLA | CMC-C2C-C1C | -2.30 | 121.53 | 125.04 |
| 25 | 9 | 308 | CLA | CAA-CBA-CGA | -2.30 | 106.53 | 113.25 |
| 25 | B | 834 | CLA | CMB-C2B-C3B | 2.30 | 128.98 | 124.68 |
| 28 | I | 201 | BCR | C15-C14-C13 | -2.30 | 124.03 | 127.31 |
| 25 | B | 819 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 25 | 2 | 307 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 34 | 1 | 617 | LUT | C11-C10-C9 | -2.30 | 124.03 | 127.31 |
| 34 | Q | 615 | LUT | C40-C33-C34 | -2.30 | 119.70 | 122.92 |
| 28 | B | 842 | BCR | C4-C5-C6 | -2.30 | 119.39 | 122.73 |
| 28 | L | 208 | BCR | C27-C26-C25 | -2.30 | 119.39 | 122.73 |
| 28 | O | 205 | BCR | C4-C5-C6 | -2.30 | 119.39 | 122.73 |
| 25 | B | 826 | CLA | CMB-C2B-C3B | 2.30 | 128.98 | 124.68 |
| 25 | a | 311 | CLA | O2A-CGA-O1A | -2.30 | 117.80 | 123.59 |
| 25 | A | 802 | CLA | CHB-C4A-NA | 2.30 | 127.69 | 124.51 |
| 25 | 3 | 304 | CLA | CHB-C4A-NA | 2.30 | 127.69 | 124.51 |
| 36 | P | 621 | NEX | C19-C9-C10 | -2.30 | 119.71 | 122.92 |
| 25 | O | 202 | CLA | CHB-C4A-NA | 2.29 | 127.69 | 124.51 |
| 25 | B | 825 | CLA | O2D-CGD-CBD | 2.29 | 115.34 | 111.27 |
| 25 | A | 828 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 33 | 9 | 306 | CHL | OBD-CAD-C3D | -2.29 | 123.00 | 128.52 |
| 25 | B | 809 | CLA | C1B-CHB-C4A | -2.29 | 125.57 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | P | 607 | CHL | C4A-NA-C1A | -2.29 | 105.67 | 106.71 |
| 25 | 5 | 309 | CLA | O2A-CGA-O1A | -2.29 | 117.81 | 123.59 |
| 28 | 4 | 321 | BCR | C8-C9-C10 | 2.29 | 122.46 | 118.94 |
| 34 | U | 314 | LUT | C22-C23-C24 | 2.29 | 114.35 | 111.74 |
| 33 | P | 609 | CHL | OMC-CMC-C2C | -2.29 | 120.50 | 125.69 |
| 25 | B | 805 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 28 | 5 | 323 | BCR | C33-C5-C4 | 2.29 | 118.02 | 113.62 |
| 25 | 1 | 608 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 25 | A | 833 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 34 | 3 | 315 | LUT | C7-C8-C9 | -2.29 | 122.78 | 126.23 |
| 25 | S | 304 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 27 | 7 | 317 | LHG | O7-C7-O9 | -2.29 | 118.17 | 123.70 |
| 25 | L | 202 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 25 | A | 832 | CLA | C1-C2-C3 | -2.29 | 122.08 | 126.04 |
| 25 | T | 608 | CLA | CHD-C1D-ND | -2.29 | 122.35 | 124.45 |
| 25 | A | 825 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 28 | 7 | 316 | BCR | C23-C24-C25 | -2.29 | 120.78 | 127.20 |
| 33 | 3 | 306 | CHL | O2D-CGD-O1D | -2.29 | 119.37 | 123.84 |
| 25 | B | 806 | CLA | CMB-C2B-C3B | 2.29 | 128.96 | 124.68 |
| 25 | 9 | 311 | CLA | O2D-CGD-CBD | 2.29 | 115.33 | 111.27 |
| 33 | R | 607 | CHL | C4A-NA-C1A | -2.29 | 105.68 | 106.71 |
| 25 | B | 808 | CLA | CBA-CAA-C2A | -2.29 | 107.11 | 113.86 |
| 25 | U | 302 | CLA | CHD-C1D-ND | -2.29 | 122.35 | 124.45 |
| 33 | T | 607 | CHL | CED-O2D-CGD | 2.29 | 121.11 | 115.94 |
| 25 | 2 | 305 | CLA | CMB-C2B-C3B | 2.29 | 128.96 | 124.68 |
| 25 | 5 | 306 | CLA | CHB-C4A-NA | 2.29 | 127.67 | 124.51 |
| 36 | T | 616 | NEX | C40-C33-C34 | -2.29 | 119.72 | 122.92 |
| 25 | 9 | 301 | CLA | CAA-CBA-CGA | -2.29 | 106.57 | 113.25 |
| 33 | S | 306 | CHL | O2D-CGD-O1D | -2.29 | 119.37 | 123.84 |
| 33 | Q | 601 | CHL | CHC-C1C-NC | 2.29 | 127.67 | 124.20 |
| 25 | 1 | 611 | CLA | C1B-CHB-C4A | -2.29 | 125.59 | 130.12 |
| 25 | B | 827 | CLA | O2A-CGA-O1A | -2.29 | 117.83 | 123.59 |
| 25 | O | 202 | CLA | C1B-CHB-C4A | -2.28 | 125.59 | 130.12 |
| 33 | a | 305 | CHL | CHC-C1C-NC | 2.28 | 127.67 | 124.20 |
| 25 | 1 | 607 | CLA | CHD-C1D-ND | -2.28 | 122.36 | 124.45 |
| 28 | L | 204 | BCR | C36-C18-C17 | -2.28 | 119.72 | 122.92 |
| 25 | O | 203 | CLA | C1B-CHB-C4A | -2.28 | 125.59 | 130.12 |
| 25 | 2 | 306 | CLA | CHD-C1D-ND | -2.28 | 122.36 | 124.45 |
| 34 | P | 615 | LUT | C16-C1-C6 | -2.28 | 106.60 | 110.30 |
| 28 | A | 845 | BCR | C2-C1-C6 | 2.28 | 113.99 | 110.48 |
| 25 | Q | 618 | CLA | O1D-CGD-CBD | 2.28 | 129.15 | 124.48 |
| 25 | 8 | 308 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 1 | 602 | CLA | O1D-CGD-CBD | 2.28 | 129.15 | 124.48 |
| 34 | a | 315 | LUT | C1-C2-C3 | 2.28 | 118.79 | 113.64 |
| 25 | P | 613 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 34 | Q | 614 | LUT | C20-C13-C12 | 2.28 | 121.67 | 118.08 |
| 25 | 5 | 305 | CLA | O2D-CGD-CBD | 2.28 | 115.32 | 111.27 |
| 25 | 6 | 603 | CLA | O2D-CGD-O1D | -2.28 | 119.38 | 123.84 |
| 34 | Q | 615 | LUT | C39-C29-C30 | -2.28 | 119.73 | 122.92 |
| 28 | B | 843 | BCR | C23-C24-C25 | -2.28 | 120.80 | 127.20 |
| 33 | 7 | 305 | CHL | CHB-C4A-NA | 2.28 | 127.66 | 124.51 |
| 34 | 3 | 316 | LUT | C20-C13-C12 | 2.28 | 121.67 | 118.08 |
| 33 | 9 | 307 | CHL | C1-C2-C3 | -2.28 | 123.06 | 126.75 |
| 33 | U | 305 | CHL | CED-O2D-CGD | 2.28 | 121.09 | 115.94 |
| 25 | 8 | 314 | CLA | C1B-CHB-C4A | -2.28 | 125.61 | 130.12 |
| 25 | 2 | 306 | CLA | CMB-C2B-C3B | 2.28 | 128.94 | 124.68 |
| 25 | 5 | 319 | CLA | O2D-CGD-O1D | -2.28 | 119.39 | 123.84 |
| 25 | A | 833 | CLA | C2D-C1D-ND | -2.28 | 108.43 | 110.10 |
| 25 | 6 | 623 | CLA | C3A-C2A-C1A | 2.28 | 104.75 | 101.34 |
| 32 | 6 | 602 | LMG | C8-O7-C10 | -2.28 | 112.19 | 117.79 |
| 33 | 8 | 307 | CHL | O2A-CGA-CBA | 2.28 | 119.05 | 111.91 |
| 36 | P | 617 | NEX | C26-C27-C28 | -2.28 | 121.18 | 125.99 |
| 25 | B | 831 | CLA | CMB-C2B-C3B | 2.28 | 128.94 | 124.68 |
| 28 | A | 846 | BCR | C34-C9-C10 | -2.28 | 119.74 | 122.92 |
| 33 | 6 | 606 | CHL | C6-C5-C3 | -2.27 | 110.90 | 114.62 |
| 36 | P | 621 | NEX | C40-C33-C34 | -2.27 | 119.74 | 122.92 |
| 36 | R | 617 | NEX | C19-C9-C10 | -2.27 | 119.74 | 122.92 |
| 25 | 6 | 613 | CLA | CHD-C1D-ND | -2.27 | 122.37 | 124.45 |
| 34 | 2 | 315 | LUT | C39-C29-C28 | 2.27 | 121.66 | 118.08 |
| 25 | Q | 618 | CLA | CED-O2D-CGD | 2.27 | 121.07 | 115.94 |
| 28 | 4 | 317 | BCR | C37-C22-C23 | 2.27 | 121.65 | 118.08 |
| 25 | S | 315 | CLA | O2A-CGA-O1A | -2.27 | 117.86 | 123.59 |
| 28 | B | 844 | BCR | C10-C11-C12 | -2.27 | 116.14 | 123.22 |
| 25 | K | 201 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 28 | A | 849 | BCR | C36-C18-C17 | -2.27 | 119.75 | 122.92 |
| 25 | T | 602 | CLA | CHD-C1D-ND | -2.27 | 122.37 | 124.45 |
| 33 | P | 605 | CHL | O2D-CGD-O1D | -2.27 | 119.41 | 123.84 |
| 33 | 9 | 307 | CHL | CMB-C2B-C3B | 2.27 | 128.92 | 124.68 |
| 33 | R | 601 | CHL | CHC-C1C-NC | 2.27 | 127.64 | 124.20 |
| 25 | H | 201 | CLA | C1B-CHB-C4A | -2.27 | 125.63 | 130.12 |
| 28 | B | 841 | BCR | C27-C26-C25 | -2.27 | 119.44 | 122.73 |
| 34 | R | 615 | LUT | C38-C25-C24 | -2.27 | 118.71 | 123.56 |
| 25 | 3 | 312 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 25 | 9 | 311 | CLA | CHD-C1D-ND | -2.26 | 122.37 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 8 | 305 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 25 | 3 | 312 | CLA | O2D-CGD-CBD | 2.26 | 115.29 | 111.27 |
| 25 | 1 | 607 | CLA | CMB-C2B-C3B | 2.26 | 128.91 | 124.68 |
| 34 | 4 | 315 | LUT | C10-C11-C12 | -2.26 | 116.16 | 123.22 |
| 33 | P | 622 | CHL | CHD-C1D-C2D | 2.26 | 130.22 | 125.48 |
| 36 | T | 616 | NEX | C26-C27-C28 | -2.26 | 121.21 | 125.99 |
| 33 | S | 306 | CHL | CAA-C2A-C3A | -2.26 | 106.59 | 112.78 |
| 25 | S | 314 | CLA | CGD-CBD-CAD | -2.26 | 103.41 | 110.73 |
| 33 | R | 606 | CHL | O1D-CGD-CBD | -2.26 | 119.86 | 124.48 |
| 27 | B | 847 | LHG | C5-O7-C7 | -2.26 | 112.23 | 117.79 |
| 34 | R | 616 | LUT | C3-C4-C5 | -2.26 | 107.36 | 111.85 |
| 25 | G | 201 | CLA | O2D-CGD-O1D | -2.26 | 119.42 | 123.84 |
| 33 | T | 601 | CHL | OMC-CMC-C2C | -2.26 | 120.58 | 125.69 |
| 32 | J | 102 | LMG | C7-O1-C1 | -2.26 | 109.33 | 113.74 |
| 25 | B | 809 | CLA | CHB-C4A-NA | 2.26 | 127.63 | 124.51 |
| 25 | A | 820 | CLA | O2D-CGD-CBD | 2.26 | 115.28 | 111.27 |
| 27 | A | 843 | LHG | O8-C23-C24 | 2.26 | 118.99 | 111.91 |
| 28 | A | 854 | BCR | C36-C18-C17 | -2.26 | 119.76 | 122.92 |
| 25 | A | 820 | CLA | O2A-CGA-O1A | -2.26 | 117.90 | 123.59 |
| 32 | 7 | 319 | LMG | C8-O7-C10 | -2.26 | 112.24 | 117.79 |
| 25 | 5 | 310 | CLA | CHB-C4A-NA | 2.26 | 127.63 | 124.51 |
| 28 | J | 106 | BCR | C10-C11-C12 | -2.25 | 116.18 | 123.22 |
| 34 | 7 | 314 | LUT | C21-C26-C27 | -2.25 | 109.85 | 112.70 |
| 28 | G | 203 | BCR | C20-C19-C18 | -2.25 | 120.08 | 126.42 |
| 33 | 1 | 606 | CHL | C3C-C4C-NC | 2.25 | 113.10 | 110.57 |
| 25 | 2 | 314 | CLA | O2D-CGD-CBD | 2.25 | 115.27 | 111.27 |
| 33 | T | 606 | CHL | C2A-C3A-C4A | -2.25 | 98.23 | 101.87 |
| 25 | A | 824 | CLA | O2D-CGD-CBD | 2.25 | 115.27 | 111.27 |
| 25 | B | 824 | CLA | C1-C2-C3 | -2.25 | 122.15 | 126.04 |
| 25 | S | 301 | CLA | CHB-C4A-NA | 2.25 | 127.63 | 124.51 |
| 25 | 3 | 301 | CLA | O2A-CGA-O1A | -2.25 | 117.91 | 123.59 |
| 25 | K | 205 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 25 | 6 | 616 | CLA | O2D-CGD-CBD | 2.25 | 115.27 | 111.27 |
| 34 | T | 614 | LUT | C38-C25-C24 | -2.25 | 118.74 | 123.56 |
| 25 | A | 818 | CLA | O2D-CGD-CBD | 2.25 | 115.27 | 111.27 |
| 25 | P | 603 | CLA | O2A-CGA-O1A | -2.25 | 117.91 | 123.59 |
| 25 | 2 | 302 | CLA | O1D-CGD-CBD | 2.25 | 129.09 | 124.48 |
| 34 | S | 316 | LUT | C39-C29-C28 | 2.25 | 121.62 | 118.08 |
| 25 | G | 201 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 25 | 7 | 304 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 28 | K | 206 | BCR | C10-C11-C12 | -2.25 | 116.20 | 123.22 |
| 25 | B | 806 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 1 | 606 | CHL | OMC-CMC-C2C | -2.25 | 120.60 | 125.69 |
| 34 | P | 614 | LUT | C3-C4-C5 | -2.25 | 107.38 | 111.85 |
| 34 | 4 | 316 | LUT | C35-C34-C33 | -2.25 | 124.10 | 127.31 |
| 25 | S | 305 | CLA | O2A-CGA-O1A | -2.25 | 117.92 | 123.59 |
| 25 | 4 | 309 | CLA | C1B-CHB-C4A | -2.25 | 125.67 | 130.12 |
| 33 | 5 | 307 | CHL | CMB-C2B-C3B | 2.25 | 128.88 | 124.68 |
| 34 | P | 614 | LUT | C40-C33-C34 | -2.25 | 119.78 | 122.92 |
| 25 | A | 835 | CLA | C1B-CHB-C4A | -2.25 | 125.67 | 130.12 |
| 25 | B | 812 | CLA | C1B-CHB-C4A | -2.25 | 125.67 | 130.12 |
| 25 | Q | 611 | CLA | CHA-C1A-NA | -2.25 | 121.25 | 126.40 |
| 34 | T | 614 | LUT | C40-C33-C32 | 2.25 | 121.62 | 118.08 |
| 25 | 9 | 305 | CLA | CMB-C2B-C3B | 2.25 | 128.88 | 124.68 |
| 25 | A | 816 | CLA | C1-C2-C3 | -2.24 | 122.16 | 126.04 |
| 25 | 6 | 609 | CLA | C1B-CHB-C4A | -2.24 | 125.67 | 130.12 |
| 28 | 8 | 301 | BCR | C29-C30-C25 | 2.24 | 113.94 | 110.48 |
| 33 | U | 306 | CHL | C1B-CHB-C4A | -2.24 | 125.67 | 130.12 |
| 25 | 4 | 313 | CLA | CHD-C1D-ND | -2.24 | 122.39 | 124.45 |
| 28 | B | 842 | BCR | C1-C6-C5 | -2.24 | 119.45 | 122.61 |
| 25 | 6 | 609 | CLA | O1D-CGD-CBD | 2.24 | 129.07 | 124.48 |
| 25 | A | 835 | CLA | CHA-C1A-NA | -2.24 | 121.26 | 126.40 |
| 25 | 9 | 309 | CLA | CMB-C2B-C3B | 2.24 | 128.87 | 124.68 |
| 33 | T | 606 | CHL | C4A-NA-C1A | -2.24 | 105.70 | 106.71 |
| 27 | A | 852 | LHG | C6-C5-C4 | -2.24 | 106.49 | 111.79 |
| 25 | B | 803 | CLA | O2A-CGA-O1A | -2.24 | 117.72 | 123.30 |
| 34 | 8 | 317 | LUT | C3-C4-C5 | -2.24 | 107.39 | 111.85 |
| 28 | B | 843 | BCR | C16-C15-C14 | -2.24 | 118.89 | 123.47 |
| 34 | 8 | 316 | LUT | C18-C5-C4 | 2.24 | 118.50 | 114.36 |
| 25 | 7 | 306 | CLA | CHD-C1D-ND | -2.24 | 122.40 | 124.45 |
| 25 | A | 853 | CLA | O2D-CGD-O1D | -2.24 | 119.46 | 123.84 |
| 33 | U | 305 | CHL | C1B-CHB-C4A | -2.24 | 125.68 | 130.12 |
| 34 | 5 | 322 | LUT | C20-C13-C12 | 2.24 | 121.60 | 118.08 |
| 35 | S | 318 | XAT | C30-C31-C32 | -2.24 | 116.23 | 123.22 |
| 35 | Q | 616 | XAT | C17-C1-C16 | 2.24 | 110.67 | 107.37 |
| 28 | B | 845 | BCR | C35-C13-C12 | 2.24 | 121.60 | 118.08 |
| 25 | A | 806 | CLA | CAA-CBA-CGA | -2.24 | 106.72 | 113.25 |
| 36 | R | 617 | NEX | C2-C1-C6 | 2.24 | 111.38 | 109.21 |
| 25 | 8 | 314 | CLA | CMA-C3A-C4A | -2.24 | 105.76 | 111.77 |
| 30 | B | 848 | DGD | C4D-C3D-C2D | 2.24 | 114.73 | 110.82 |
| 25 | 4 | 301 | CLA | C1-C2-C3 | -2.24 | 122.18 | 126.04 |
| 28 | B | 844 | BCR | C39-C30-C25 | -2.23 | 106.67 | 110.30 |
| 33 | 6 | 607 | CHL | CMB-C2B-C3B | 2.23 | 128.86 | 124.68 |
| 25 | 1 | 610 | CLA | CHB-C4A-NA | 2.23 | 127.60 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | I | 201 | BCR | C10-C11-C12 | -2.23 | 116.24 | 123.22 |
| 33 | S | 306 | CHL | C1C-C2C-C3C | -2.23 | 105.34 | 107.11 |
| 25 | B | 816 | CLA | C2D-C1D-ND | -2.23 | 108.46 | 110.10 |
| 33 | 1 | 601 | CHL | C1B-CHB-C4A | -2.23 | 125.69 | 130.12 |
| 36 | U | 301 | NEX | C38-C25-C24 | 2.23 | 116.79 | 114.28 |
| 25 | a | 304 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 25 | A | 820 | CLA | C2D-C1D-ND | -2.23 | 108.46 | 110.10 |
| 34 | Q | 615 | LUT | C38-C25-C24 | -2.23 | 118.79 | 123.56 |
| 36 | P | 621 | NEX | C11-C12-C13 | -2.23 | 120.15 | 126.42 |
| 33 | P | 622 | CHL | C3C-C4C-NC | 2.23 | 113.07 | 110.57 |
| 33 | U | 305 | CHL | O2D-CGD-O1D | -2.23 | 119.48 | 123.84 |
| 34 | S | 317 | LUT | C32-C33-C34 | 2.23 | 122.36 | 118.94 |
| 34 | R | 616 | LUT | C39-C29-C30 | -2.23 | 119.80 | 122.92 |
| 25 | 7 | 311 | CLA | O2A-CGA-O1A | -2.23 | 117.97 | 123.59 |
| 25 | P | 603 | CLA | CHD-C1D-ND | -2.23 | 122.41 | 124.45 |
| 25 | a | 304 | CLA | CHB-C4A-NA | 2.23 | 127.59 | 124.51 |
| 25 | A | 808 | CLA | O2A-CGA-O1A | -2.23 | 117.97 | 123.59 |
| 34 | R | 615 | LUT | C20-C13-C12 | 2.23 | 121.59 | 118.08 |
| 33 | R | 605 | CHL | C1B-CHB-C4A | -2.23 | 125.71 | 130.12 |
| 25 | B | 820 | CLA | C1B-CHB-C4A | -2.23 | 125.71 | 130.12 |
| 25 | 2 | 314 | CLA | CHB-C4A-NA | 2.23 | 127.59 | 124.51 |
| 25 | Q | 618 | CLA | CHA-C1A-NA | -2.23 | 121.41 | 126.41 |
| 25 | Q | 618 | CLA | C4D-CHA-C1A | 2.23 | 123.96 | 121.25 |
| 25 | 1 | 607 | CLA | O2A-CGA-O1A | -2.22 | 117.98 | 123.59 |
| 28 | 5 | 320 | BCR | C20-C19-C18 | -2.22 | 120.17 | 126.42 |
| 34 | 7 | 315 | LUT | C35-C34-C33 | -2.22 | 124.14 | 127.31 |
| 25 | S | 301 | CLA | C3B-C4B-NB | -2.22 | 106.33 | 109.21 |
| 25 | B | 816 | CLA | O2D-CGD-CBD | 2.22 | 115.22 | 111.27 |
| 33 | U | 307 | CHL | C1-C2-C3 | -2.22 | 122.20 | 126.04 |
| 35 | Q | 616 | XAT | O4-C5-C6 | -2.22 | 57.12 | 58.96 |
| 34 | 1 | 615 | LUT | C31-C30-C29 | -2.22 | 124.14 | 127.31 |
| 31 | B | 850 | SQD | O8-S-C6 | 2.22 | 109.28 | 105.74 |
| 25 | A | 802 | CLA | C16-C15-C13 | -2.22 | 108.73 | 115.92 |
| 27 | 1 | 618 | LHG | C25-C24-C23 | -2.22 | 105.53 | 113.62 |
| 28 | I | 201 | BCR | C1-C6-C5 | -2.22 | 119.48 | 122.61 |
| 25 | 2 | 306 | CLA | C3C-C4C-NC | -2.22 | 108.08 | 110.57 |
| 33 | U | 307 | CHL | O2D-CGD-O1D | -2.22 | 119.49 | 123.84 |
| 25 | A | 823 | CLA | O2A-CGA-O1A | -2.22 | 117.98 | 123.59 |
| 25 | 1 | 604 | CLA | O2A-CGA-O1A | -2.22 | 117.98 | 123.59 |
| 25 | 1 | 611 | CLA | C2D-C1D-ND | -2.22 | 108.47 | 110.10 |
| 25 | 5 | 314 | CLA | O2A-CGA-O1A | -2.22 | 117.76 | 123.30 |
| 34 | a | 315 | LUT | C38-C25-C24 | -2.22 | 118.80 | 123.56 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 2 | 313 | CLA | O2A-CGA-O1A | -2.22 | 117.98 | 123.59 |
| 33 | P | 606 | CHL | OMC-CMC-C2C | -2.22 | 120.66 | 125.69 |
| 33 | 6 | 617 | CHL | OMC-CMC-C2C | -2.22 | 120.66 | 125.69 |
| 34 | 1 | 616 | LUT | C1-C2-C3 | 2.22 | 118.66 | 113.64 |
| 25 | P | 613 | CLA | CHD-C1D-ND | -2.22 | 122.41 | 124.45 |
| 25 | B | 829 | CLA | O2A-CGA-O1A | -2.22 | 117.99 | 123.59 |
| 25 | R | 604 | CLA | O1D-CGD-CBD | 2.22 | 129.03 | 124.48 |
| 28 | B | 851 | BCR | C1-C6-C5 | -2.22 | 119.49 | 122.61 |
| 25 | 2 | 303 | CLA | CHB-C4A-NA | 2.22 | 127.58 | 124.51 |
| 25 | 2 | 313 | CLA | CHD-C1D-ND | -2.22 | 122.41 | 124.45 |
| 25 | 2 | 305 | CLA | O2A-CGA-O1A | -2.22 | 117.99 | 123.59 |
| 28 | L | 204 | BCR | C33-C5-C4 | 2.22 | 117.88 | 113.62 |
| 25 | A | 810 | CLA | CAA-CBA-CGA | -2.22 | 106.77 | 113.25 |
| 34 | 7 | 315 | LUT | C7-C8-C9 | -2.22 | 122.88 | 126.23 |
| 33 | S | 310 | CHL | O2A-CGA-CBA | 2.22 | 118.87 | 111.91 |
| 25 | B | 809 | CLA | CAA-CBA-CGA | -2.22 | 106.77 | 113.25 |
| 25 | 9 | 311 | CLA | O2A-CGA-O1A | -2.22 | 117.77 | 123.30 |
| 25 | 8 | 310 | CLA | O2D-CGD-O1D | -2.22 | 119.50 | 123.84 |
| 28 | B | 845 | BCR | C8-C7-C6 | -2.22 | 120.97 | 127.20 |
| 25 | 1 | 607 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 33 | a | 305 | CHL | OMC-CMC-C2C | -2.22 | 120.67 | 125.69 |
| 25 | 1 | 605 | CLA | O2A-CGA-O1A | -2.22 | 118.00 | 123.59 |
| 34 | P | 614 | LUT | C22-C23-C24 | 2.22 | 114.26 | 111.74 |
| 25 | 6 | 616 | CLA | CHD-C1D-ND | -2.22 | 122.42 | 124.45 |
| 28 | L | 207 | BCR | C38-C26-C27 | 2.22 | 117.87 | 113.62 |
| 28 | L | 204 | BCR | C23-C24-C25 | -2.22 | 120.98 | 127.20 |
| 25 | K | 202 | CLA | C1B-CHB-C4A | -2.22 | 125.73 | 130.12 |
| 25 | 4 | 312 | CLA | O2A-CGA-O1A | -2.22 | 117.78 | 123.30 |
| 25 | B | 805 | CLA | CHD-C1D-ND | -2.22 | 122.42 | 124.45 |
| 25 | B | 815 | CLA | CHD-C1D-ND | -2.22 | 122.42 | 124.45 |
| 25 | 4 | 312 | CLA | O1A-CGA-CBA | 2.22 | 130.20 | 123.08 |
| 28 | 5 | 323 | BCR | C28-C27-C26 | -2.21 | 110.12 | 114.08 |
| 34 | 1 | 616 | LUT | C15-C14-C13 | -2.21 | 124.15 | 127.31 |
| 28 | J | 106 | BCR | C34-C9-C8 | 2.21 | 121.57 | 118.08 |
| 34 | 5 | 318 | LUT | C8-C7-C6 | -2.21 | 120.98 | 127.20 |
| 28 | K | 206 | BCR | C20-C19-C18 | -2.21 | 120.20 | 126.42 |
| 33 | 4 | 322 | CHL | O1D-CGD-CBD | -2.21 | 119.95 | 124.48 |
| 25 | 4 | 309 | CLA | C2D-C1D-ND | -2.21 | 108.47 | 110.10 |
| 25 | 7 | 302 | CLA | O2D-CGD-O1D | -2.21 | 119.51 | 123.84 |
| 25 | U | 304 | CLA | CMC-C2C-C1C | -2.21 | 121.67 | 125.04 |
| 25 | 7 | 311 | CLA | CMB-C2B-C3B | 2.21 | 128.82 | 124.68 |
| 25 | A | 817 | CLA | CHB-C4A-NA | 2.21 | 127.57 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | A | 813 | CLA | CMB-C2B-C3B | 2.21 | 128.81 | 124.68 |
| 25 | P | 613 | CLA | O2D-CGD-O1D | -2.21 | 119.52 | 123.84 |
| 25 | B | 815 | CLA | C2D-C1D-ND | -2.21 | 108.47 | 110.10 |
| 25 | 2 | 303 | CLA | C1B-CHB-C4A | -2.21 | 125.74 | 130.12 |
| 33 | 5 | 307 | CHL | O1D-CGD-CBD | -2.21 | 119.96 | 124.48 |
| 28 | B | 840 | BCR | C37-C22-C23 | 2.21 | 121.56 | 118.08 |
| 25 | 1 | 612 | CLA | O2D-CGD-CBD | 2.21 | 115.19 | 111.27 |
| 34 | R | 616 | LUT | C40-C33-C32 | 2.21 | 121.56 | 118.08 |
| 25 | 3 | 302 | CLA | CAA-C2A-C3A | -2.21 | 106.73 | 112.78 |
| 28 | F | 801 | BCR | C38-C26-C25 | -2.21 | 122.05 | 124.53 |
| 25 | B | 824 | CLA | C2D-C1D-ND | -2.21 | 108.48 | 110.10 |
| 25 | A | 815 | CLA | C1B-CHB-C4A | -2.21 | 125.75 | 130.12 |
| 25 | 2 | 313 | CLA | O2D-CGD-CBD | 2.21 | 115.19 | 111.27 |
| 28 | I | 201 | BCR | C34-C9-C10 | -2.21 | 119.83 | 122.92 |
| 25 | Q | 612 | CLA | C1B-CHB-C4A | -2.21 | 125.75 | 130.12 |
| 33 | 6 | 606 | CHL | CHB-C4A-NA | 2.21 | 127.56 | 124.51 |
| 25 | A | 831 | CLA | C2D-C1D-ND | -2.21 | 108.48 | 110.10 |
| 35 | T | 615 | XAT | C35-C15-C14 | -2.21 | 118.96 | 123.47 |
| 25 | 9 | 303 | CLA | C1B-CHB-C4A | -2.20 | 125.75 | 130.12 |
| 25 | G | 202 | CLA | CHD-C1D-ND | -2.20 | 122.43 | 124.45 |
| 25 | A | 827 | CLA | CHB-C4A-NA | 2.20 | 127.56 | 124.51 |
| 34 | 9 | 312 | LUT | C16-C1-C6 | -2.20 | 106.72 | 110.30 |
| 35 | P | 620 | XAT | C10-C11-C12 | -2.20 | 116.34 | 123.22 |
| 33 | U | 308 | CHL | C2A-C3A-C4A | -2.20 | 98.31 | 101.87 |
| 25 | S | 303 | CLA | O2A-CGA-O1A | -2.20 | 118.03 | 123.59 |
| 25 | A | 801 | CLA | O2D-CGD-O1D | -2.20 | 119.53 | 123.84 |
| 25 | J | 105 | CLA | C2D-C1D-ND | -2.20 | 108.48 | 110.10 |
| 25 | A | 813 | CLA | C1B-CHB-C4A | -2.20 | 125.75 | 130.12 |
| 25 | B | 833 | CLA | C1B-CHB-C4A | -2.20 | 125.76 | 130.12 |
| 35 | T | 615 | XAT | C10-C11-C12 | -2.20 | 116.35 | 123.22 |
| 25 | 8 | 315 | CLA | C1B-CHB-C4A | -2.20 | 125.76 | 130.12 |
| 33 | P | 606 | CHL | C1B-CHB-C4A | -2.20 | 125.76 | 130.12 |
| 33 | S | 306 | CHL | CHC-C1C-NC | 2.20 | 127.54 | 124.20 |
| 28 | L | 207 | BCR | C21-C20-C19 | -2.20 | 116.35 | 123.22 |
| 34 | P | 615 | LUT | C8-C9-C10 | -2.20 | 115.57 | 118.94 |
| 28 | 5 | 320 | BCR | C16-C15-C14 | -2.20 | 118.97 | 123.47 |
| 25 | 5 | 310 | CLA | O2A-CGA-O1A | -2.20 | 118.04 | 123.59 |
| 28 | A | 845 | BCR | C33-C5-C4 | 2.20 | 117.84 | 113.62 |
| 25 | 7 | 308 | CLA | C1-C2-C3 | -2.20 | 122.24 | 126.04 |
| 33 | 4 | 322 | CHL | OMC-CMC-C2C | -2.20 | 120.72 | 125.69 |
| 25 | a | 306 | CLA | O2A-CGA-O1A | -2.20 | 118.05 | 123.59 |
| 25 | A | 840 | CLA | C1-C2-C3 | -2.20 | 122.25 | 126.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | O | 205 | BCR | C11-C12-C13 | -2.20 | 120.25 | 126.42 |
| 28 | A | 848 | BCR | C24-C23-C22 | -2.19 | 122.92 | 126.23 |
| 25 | K | 204 | CLA | CHA-C1A-NA | -2.19 | 121.37 | 126.40 |
| 33 | 6 | 617 | CHL | CHB-C4A-NA | 2.19 | 127.55 | 124.51 |
| 25 | 2 | 307 | CLA | O2A-CGA-O1A | -2.19 | 118.06 | 123.59 |
| 25 | A | 818 | CLA | CMB-C2B-C3B | 2.19 | 128.78 | 124.68 |
| 25 | 3 | 305 | CLA | O2A-CGA-O1A | -2.19 | 118.06 | 123.59 |
| 33 | 4 | 304 | CHL | OBD-CAD-C3D | -2.19 | 123.24 | 128.52 |
| 34 | 3 | 315 | LUT | C16-C1-C6 | -2.19 | 106.74 | 110.30 |
| 34 | T | 613 | LUT | C20-C13-C12 | 2.19 | 121.53 | 118.08 |
| 25 | 2 | 305 | CLA | C1B-CHB-C4A | -2.19 | 125.78 | 130.12 |
| 25 | 4 | 310 | CLA | C3A-C2A-C1A | 2.19 | 104.62 | 101.34 |
| 33 | P | 601 | CHL | C5-C3-C4 | 2.19 | 119.44 | 114.60 |
| 25 | A | 813 | CLA | C2D-C1D-ND | -2.19 | 108.49 | 110.10 |
| 33 | Q | 601 | CHL | C5-C3-C4 | 2.19 | 119.44 | 114.60 |
| 25 | A | 838 | CLA | C11-C12-C13 | -2.19 | 108.84 | 115.92 |
| 33 | R | 601 | CHL | C5-C3-C4 | 2.19 | 119.44 | 114.60 |
| 34 | 9 | 313 | LUT | C7-C8-C9 | -2.19 | 122.93 | 126.23 |
| 25 | L | 205 | CLA | O2A-CGA-O1A | -2.19 | 118.07 | 123.59 |
| 25 | A | 818 | CLA | C1B-CHB-C4A | -2.19 | 125.78 | 130.12 |
| 25 | S | 313 | CLA | O2A-CGA-O1A | -2.19 | 118.07 | 123.59 |
| 25 | a | 307 | CLA | CHB-C4A-NA | 2.19 | 127.54 | 124.51 |
| 25 | a | 303 | CLA | O2A-CGA-CBA | 2.19 | 118.77 | 111.91 |
| 25 | T | 611 | CLA | O2A-CGA-O1A | -2.19 | 118.07 | 123.59 |
| 28 | B | 843 | BCR | C10-C11-C12 | -2.19 | 116.39 | 123.22 |
| 33 | P | 609 | CHL | C2C-C3C-C4C | 2.19 | 108.05 | 106.49 |
| 25 | A | 823 | CLA | CAA-C2A-C3A | -2.19 | 106.79 | 112.78 |
| 34 | 9 | 312 | LUT | C7-C8-C9 | -2.19 | 122.93 | 126.23 |
| 33 | 6 | 606 | CHL | CED-O2D-CGD | 2.19 | 120.88 | 115.94 |
| 25 | a | 303 | CLA | O2A-CGA-O1A | -2.19 | 118.08 | 123.59 |
| 28 | J | 101 | BCR | C30-C25-C24 | 2.19 | 121.96 | 115.78 |
| 25 | B | 834 | CLA | O2D-CGD-CBD | 2.18 | 115.15 | 111.27 |
| 33 | T | 607 | CHL | C3C-C4C-NC | 2.18 | 113.02 | 110.57 |
| 36 | U | 301 | NEX | C16-C1-C6 | -2.18 | 108.52 | 110.47 |
| 25 | 1 | 612 | CLA | CGD-CBD-CAD | 2.18 | 117.81 | 110.73 |
| 33 | 9 | 306 | CHL | CMA-C3A-C2A | -2.18 | 111.00 | 116.10 |
| 25 | P | 604 | CLA | CMC-C2C-C1C | -2.18 | 121.71 | 125.04 |
| 33 | P | 605 | CHL | CHA-C1A-NA | 2.18 | 131.40 | 126.40 |
| 25 | P | 602 | CLA | CHD-C1D-ND | -2.18 | 122.45 | 124.45 |
| 32 | J | 107 | LMG | O6-C1-O1 | -2.18 | 104.81 | 109.97 |
| 25 | 3 | 312 | CLA | O2A-CGA-O1A | -2.18 | 117.86 | 123.30 |
| 28 | 8 | 318 | BCR | C37-C22-C23 | 2.18 | 121.52 | 118.08 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | 3 | 303 | CLA | O2D-CGD-CBD | 2.18 | 115.14 | 111.27 |
| 25 | S | 303 | CLA | O1D-CGD-CBD | 2.18 | 128.95 | 124.48 |
| 33 | 6 | 617 | CHL | OBD-CAD-C3D | -2.18 | 123.27 | 128.52 |
| 28 | O | 204 | BCR | C2-C1-C6 | 2.18 | 113.84 | 110.48 |
| 25 | 5 | 306 | CLA | C1B-CHB-C4A | -2.18 | 125.80 | 130.12 |
| 25 | 1 | 603 | CLA | O2D-CGD-O1D | -2.18 | 119.58 | 123.84 |
| 25 | a | 301 | CLA | CAC-C3C-C4C | 2.18 | 127.64 | 124.81 |
| 25 | 8 | 310 | CLA | O2A-CGA-O1A | -2.18 | 118.09 | 123.59 |
| 25 | 9 | 304 | CLA | O2D-CGD-O1D | -2.18 | 119.58 | 123.84 |
| 25 | R | 614 | CLA | CAA-CBA-CGA | -2.18 | 106.88 | 113.25 |
| 25 | T | 602 | CLA | O2A-CGA-O1A | -2.18 | 118.09 | 123.59 |
| 25 | 9 | 301 | CLA | O2D-CGD-O1D | -2.18 | 119.58 | 123.84 |
| 25 | 5 | 312 | CLA | CAA-CBA-CGA | -2.18 | 106.89 | 113.25 |
| 28 | A | 848 | BCR | C31-C1-C6 | -2.18 | 106.77 | 110.30 |
| 25 | 2 | 308 | CLA | CHD-C1D-ND | -2.18 | 122.45 | 124.45 |
| 36 | P | 617 | NEX | C2-C1-C6 | 2.18 | 111.33 | 109.21 |
| 25 | U | 312 | CLA | O2A-CGA-O1A | -2.18 | 118.10 | 123.59 |
| 25 | T | 603 | CLA | CHD-C1D-ND | -2.18 | 122.45 | 124.45 |
| 25 | 2 | 311 | CLA | O2D-CGD-O1D | -2.18 | 119.58 | 123.84 |
| 34 | 9 | 313 | LUT | C15-C35-C34 | -2.18 | 119.02 | 123.47 |
| 25 | H | 203 | CLA | CAA-CBA-CGA | -2.18 | 106.89 | 113.25 |
| 25 | A | 838 | CLA | O2A-CGA-O1A | -2.18 | 118.10 | 123.59 |
| 25 | G | 201 | CLA | CHD-C1D-ND | -2.18 | 122.45 | 124.45 |
| 25 | S | 311 | CLA | O2A-CGA-O1A | -2.17 | 118.10 | 123.59 |
| 28 | O | 205 | BCR | C33-C5-C4 | 2.17 | 117.79 | 113.62 |
| 25 | 4 | 311 | CLA | C1B-CHB-C4A | -2.17 | 125.81 | 130.12 |
| 33 | P | 606 | CHL | CHB-C4A-NA | 2.17 | 127.52 | 124.51 |
| 25 | 6 | 611 | CLA | CHB-C4A-NA | 2.17 | 127.52 | 124.51 |
| 33 | T | 604 | CHL | C2A-C3A-C4A | -2.17 | 98.36 | 101.87 |
| 33 | P | 619 | CHL | C2A-C3A-C4A | -2.17 | 98.36 | 101.87 |
| 28 | 4 | 321 | BCR | C12-C13-C14 | 2.17 | 122.27 | 118.94 |
| 25 | P | 611 | CLA | C2C-C1C-NC | 2.17 | 112.00 | 109.97 |
| 25 | 5 | 302 | CLA | O2D-CGD-CBD | 2.17 | 115.12 | 111.27 |
| 28 | 3 | 319 | BCR | C38-C26-C27 | 2.17 | 117.78 | 113.62 |
| 25 | 2 | 306 | CLA | O2D-CGD-CBD | 2.17 | 115.12 | 111.27 |
| 25 | 7 | 308 | CLA | O2A-CGA-O1A | -2.17 | 118.12 | 123.59 |
| 33 | S | 308 | CHL | O1D-CGD-CBD | -2.17 | 120.05 | 124.48 |
| 25 | R | 611 | CLA | CHA-C1A-NA | -2.17 | 121.43 | 126.40 |
| 25 | B | 817 | CLA | O2A-CGA-O1A | -2.17 | 118.12 | 123.59 |
| 25 | B | 849 | CLA | O2A-CGA-O1A | -2.17 | 118.12 | 123.59 |
| 28 | B | 840 | BCR | C3-C4-C5 | -2.17 | 110.20 | 114.08 |
| 25 | 1 | 610 | CLA | O2A-CGA-O1A | -2.17 | 118.12 | 123.59 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | P | 622 | CHL | CED-O2D-CGD | 2.17 | 120.84 | 115.94 |
| 33 | S | 302 | CHL | CED-O2D-CGD | 2.17 | 120.84 | 115.94 |
| 25 | 1 | 612 | CLA | CMB-C2B-C3B | 2.17 | 128.73 | 124.68 |
| 25 | T | 609 | CLA | CED-O2D-CGD | 2.17 | 120.84 | 115.94 |
| 35 | P | 620 | XAT | C30-C31-C32 | -2.17 | 116.46 | 123.22 |
| 33 | U | 306 | CHL | CHB-C4A-NA | 2.17 | 127.51 | 124.51 |
| 33 | P | 601 | CHL | O2D-CGD-O1D | -2.17 | 119.60 | 123.84 |
| 25 | Q | 612 | CLA | O2A-CGA-O1A | -2.17 | 118.13 | 123.59 |
| 25 | J | 103 | CLA | C1-C2-C3 | -2.17 | 122.30 | 126.04 |
| 28 | L | 204 | BCR | C37-C22-C21 | -2.16 | 119.89 | 122.92 |
| 25 | K | 203 | CLA | C2D-C1D-ND | -2.16 | 108.51 | 110.10 |
| 25 | 4 | 311 | CLA | CMB-C2B-C3B | 2.16 | 128.72 | 124.68 |
| 33 | 8 | 307 | CHL | CED-O2D-CGD | 2.16 | 120.83 | 115.94 |
| 33 | Q | 607 | CHL | O2D-CGD-O1D | -2.16 | 119.61 | 123.84 |
| 28 | 7 | 316 | BCR | C1-C6-C5 | -2.16 | 119.57 | 122.61 |
| 33 | R | 601 | CHL | O2D-CGD-O1D | -2.16 | 119.61 | 123.84 |
| 25 | 8 | 314 | CLA | O2D-CGD-CBD | 2.16 | 115.11 | 111.27 |
| 34 | S | 316 | LUT | C10-C11-C12 | -2.16 | 116.48 | 123.22 |
| 25 | A | 802 | CLA | CAA-C2A-C3A | -2.16 | 106.86 | 112.78 |
| 25 | 8 | 306 | CLA | O1D-CGD-CBD | 2.16 | 128.90 | 124.48 |
| 25 | U | 302 | CLA | O2A-CGA-O1A | -2.16 | 118.14 | 123.59 |
| 34 | 2 | 316 | LUT | C21-C26-C27 | -2.16 | 109.97 | 112.70 |
| 25 | A | 804 | CLA | C11-C10-C8 | -2.16 | 108.94 | 115.92 |
| 34 | 6 | 619 | LUT | C39-C29-C28 | 2.16 | 121.48 | 118.08 |
| 33 | R | 609 | CHL | C2C-C3C-C4C | 2.16 | 108.03 | 106.49 |
| 33 | 4 | 305 | CHL | CED-O2D-CGD | 2.16 | 120.82 | 115.94 |
| 34 | 7 | 315 | LUT | C8-C7-C6 | -2.16 | 121.14 | 127.20 |
| 25 | U | 303 | CLA | CHD-C1D-ND | -2.16 | 122.47 | 124.45 |
| 34 | T | 614 | LUT | C8-C9-C10 | -2.16 | 115.63 | 118.94 |
| 25 | R | 603 | CLA | O2A-CGA-O1A | -2.16 | 118.15 | 123.59 |
| 25 | 2 | 312 | CLA | C2D-C1D-ND | -2.15 | 108.52 | 110.10 |
| 25 | a | 312 | CLA | O2A-CGA-O1A | -2.15 | 118.15 | 123.59 |
| 25 | L | 205 | CLA | CAA-C2A-C3A | -2.15 | 106.88 | 112.78 |
| 33 | 5 | 308 | CHL | OMC-CMC-C2C | -2.15 | 120.82 | 125.69 |
| 34 | 8 | 316 | LUT | C39-C29-C28 | 2.15 | 121.47 | 118.08 |
| 25 | A | 821 | CLA | O1D-CGD-CBD | 2.15 | 128.89 | 124.48 |
| 28 | J | 106 | BCR | C35-C13-C14 | -2.15 | 119.91 | 122.92 |
| 25 | 6 | 620 | CLA | O2A-CGA-O1A | -2.15 | 117.93 | 123.30 |
| 25 | A | 851 | CLA | CHB-C4A-NA | 2.15 | 127.49 | 124.51 |
| 25 | A | 827 | CLA | O2A-CGA-O1A | -2.15 | 118.16 | 123.59 |
| 28 | 8 | 301 | BCR | C37-C22-C21 | -2.15 | 119.91 | 122.92 |
| 25 | B | 820 | CLA | CAA-CBA-CGA | -2.15 | 106.96 | 113.25 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 27 | 8 | 319 | LHG | C5-O7-C7 | -2.15 | 112.49 | 117.79 |
| 25 | A | 828 | CLA | C1B-CHB-C4A | -2.15 | 125.85 | 130.12 |
| 25 | A | 801 | CLA | C11-C10-C8 | -2.15 | 108.96 | 115.92 |
| 28 | G | 203 | BCR | C34-C9-C10 | -2.15 | 119.91 | 122.92 |
| 33 | Q | 601 | CHL | O2D-CGD-O1D | -2.15 | 119.63 | 123.84 |
| 25 | 2 | 309 | CLA | C1B-CHB-C4A | -2.15 | 125.86 | 130.12 |
| 28 | A | 847 | BCR | C11-C10-C9 | -2.15 | 124.24 | 127.31 |
| 34 | a | 316 | LUT | C15-C35-C34 | -2.15 | 119.07 | 123.47 |
| 25 | 7 | 310 | CLA | O2D-CGD-O1D | -2.15 | 119.63 | 123.84 |
| 33 | T | 604 | CHL | O2D-CGD-O1D | -2.15 | 119.63 | 123.84 |
| 25 | 2 | 312 | CLA | CHD-C1D-ND | -2.15 | 122.48 | 124.45 |
| 25 | 8 | 311 | CLA | CHB-C4A-NA | 2.15 | 127.48 | 124.51 |
| 28 | L | 204 | BCR | C8-C7-C6 | -2.15 | 121.16 | 127.20 |
| 31 | B | 850 | SQD | C44-O6-C1 | -2.15 | 109.54 | 113.74 |
| 33 | P | 608 | CHL | O2D-CGD-O1D | -2.15 | 119.64 | 123.84 |
| 25 | A | 812 | CLA | O2A-CGA-O1A | -2.15 | 118.17 | 123.59 |
| 36 | T | 616 | NEX | C4-C3-C2 | -2.15 | 106.62 | 110.77 |
| 25 | B | 808 | CLA | O2A-CGA-O1A | -2.15 | 118.17 | 123.59 |
| 25 | B | 810 | CLA | O2A-CGA-O1A | -2.15 | 118.17 | 123.59 |
| 35 | P | 620 | XAT | C18-C5-C4 | 2.15 | 116.70 | 114.28 |
| 25 | 6 | 614 | CLA | C2D-C1D-ND | -2.15 | 108.52 | 110.10 |
| 25 | A | 807 | CLA | C7-C6-C5 | -2.15 | 107.53 | 113.36 |
| 33 | Q | 607 | CHL | C2A-C3A-C4A | -2.15 | 98.40 | 101.87 |
| 36 | P | 621 | NEX | C12-C13-C14 | 2.15 | 122.24 | 118.94 |
| 33 | T | 606 | CHL | CHB-C4A-NA | 2.15 | 127.48 | 124.51 |
| 25 | A | 826 | CLA | O2D-CGD-CBD | 2.15 | 115.08 | 111.27 |
| 28 | B | 845 | BCR | C39-C30-C25 | -2.15 | 106.82 | 110.30 |
| 25 | A | 825 | CLA | C2D-C1D-ND | -2.15 | 108.52 | 110.10 |
| 33 | R | 608 | CHL | O2D-CGD-O1D | -2.15 | 119.64 | 123.84 |
| 25 | P | 611 | CLA | C1C-C2C-C3C | -2.15 | 104.70 | 106.96 |
| 25 | 3 | 320 | CLA | O1D-CGD-CBD | 2.15 | 128.88 | 124.48 |
| 28 | I | 201 | BCR | C35-C13-C12 | 2.15 | 121.46 | 118.08 |
| 25 | O | 201 | CLA | CHD-C1D-ND | -2.15 | 122.48 | 124.45 |
| 25 | A | 819 | CLA | O2D-CGD-CBD | 2.15 | 115.08 | 111.27 |
| 25 | L | 209 | CLA | C2A-C1A-CHA | 2.15 | 127.60 | 123.85 |
| 25 | B | 819 | CLA | CGD-CBD-CAD | -2.15 | 103.79 | 110.73 |
| 28 | A | 848 | BCR | C2-C1-C6 | 2.14 | 113.78 | 110.48 |
| 25 | 6 | 613 | CLA | O2D-CGD-CBD | 2.14 | 115.08 | 111.27 |
| 25 | 3 | 307 | CLA | CHB-C4A-NA | 2.14 | 127.48 | 124.51 |
| 25 | B | 811 | CLA | CHD-C1D-ND | -2.14 | 122.48 | 124.45 |
| 25 | P | 611 | CLA | CHD-C1D-ND | -2.14 | 122.48 | 124.45 |
| 34 | U | 315 | LUT | C8-C9-C10 | -2.14 | 115.65 | 118.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | 1 | 615 | LUT | C1-C2-C3 | 2.14 | 118.48 | 113.64 |
| 25 | A | 840 | CLA | C11-C12-C13 | -2.14 | 108.99 | 115.92 |
| 25 | B | 833 | CLA | CHA-C1A-NA | -2.14 | 121.49 | 126.40 |
| 34 | 2 | 315 | LUT | C20-C13-C12 | 2.14 | 121.45 | 118.08 |
| 25 | 6 | 614 | CLA | CAC-C3C-C4C | 2.14 | 127.59 | 124.81 |
| 25 | 6 | 615 | CLA | CHD-C1D-ND | -2.14 | 122.49 | 124.45 |
| 25 | A | 823 | CLA | O2D-CGD-CBD | 2.14 | 115.07 | 111.27 |
| 33 | U | 306 | CHL | O2D-CGD-O1D | -2.14 | 119.66 | 123.84 |
| 25 | a | 309 | CLA | O2A-CGA-O1A | -2.14 | 118.19 | 123.59 |
| 33 | U | 307 | CHL | C1B-CHB-C4A | -2.14 | 125.88 | 130.12 |
| 25 | 4 | 303 | CLA | C1-C2-C3 | -2.14 | 123.29 | 126.75 |
| 25 | 5 | 313 | CLA | O2A-CGA-O1A | -2.14 | 118.19 | 123.59 |
| 25 | 5 | 305 | CLA | C1B-CHB-C4A | -2.14 | 125.88 | 130.12 |
| 33 | P | 605 | CHL | CAA-C2A-C3A | -2.14 | 106.92 | 112.78 |
| 28 | 8 | 318 | BCR | C8-C7-C6 | -2.14 | 121.20 | 127.20 |
| 28 | L | 207 | BCR | C35-C13-C14 | -2.14 | 119.93 | 122.92 |
| 33 | 6 | 608 | CHL | C1B-CHB-C4A | -2.14 | 125.88 | 130.12 |
| 25 | 5 | 303 | CLA | O2D-CGD-CBD | 2.14 | 115.06 | 111.27 |
| 25 | S | 320 | CLA | CHD-C1D-ND | -2.14 | 122.49 | 124.45 |
| 28 | B | 845 | BCR | C38-C26-C27 | 2.14 | 117.72 | 113.62 |
| 28 | A | 848 | BCR | C28-C29-C30 | -2.14 | 106.97 | 114.60 |
| 34 | 9 | 313 | LUT | C19-C9-C8 | 2.14 | 121.44 | 118.08 |
| 25 | B | 820 | CLA | O2A-CGA-O1A | -2.13 | 118.20 | 123.59 |
| 25 | 5 | 311 | CLA | CHB-C4A-NA | 2.13 | 127.46 | 124.51 |
| 33 | Q | 605 | CHL | C1B-CHB-C4A | -2.13 | 125.89 | 130.12 |
| 25 | 1 | 609 | CLA | C2D-C1D-ND | -2.13 | 108.53 | 110.10 |
| 33 | 4 | 314 | CHL | O1D-CGD-CBD | -2.13 | 120.12 | 124.48 |
| 25 | 1 | 605 | CLA | C6-C5-C3 | -2.13 | 111.13 | 114.62 |
| 25 | A | 830 | CLA | C2D-C1D-ND | -2.13 | 108.53 | 110.10 |
| 25 | A | 811 | CLA | O2A-CGA-O1A | -2.13 | 118.21 | 123.59 |
| 25 | 1 | 608 | CLA | O2A-CGA-O1A | -2.13 | 118.21 | 123.59 |
| 33 | P | 607 | CHL | C2A-C3A-C4A | -2.13 | 98.42 | 101.87 |
| 28 | A | 847 | BCR | C34-C9-C8 | 2.13 | 121.44 | 118.08 |
| 27 | A | 852 | LHG | O8-C23-O10 | -2.13 | 118.21 | 123.59 |
| 25 | B | 813 | CLA | C2D-C1D-ND | -2.13 | 108.53 | 110.10 |
| 33 | 5 | 308 | CHL | O2A-CGA-O1A | -2.13 | 118.21 | 123.59 |
| 33 | T | 607 | CHL | CHD-C1D-C2D | 2.13 | 129.95 | 125.48 |
| 33 | a | 305 | CHL | CHD-C1D-C2D | 2.13 | 129.95 | 125.48 |
| 33 | U | 305 | CHL | O2A-CGA-O1A | -2.13 | 117.99 | 123.30 |
| 25 | B | 810 | CLA | O2D-CGD-CBD | 2.13 | 115.05 | 111.27 |
| 25 | B | 825 | CLA | O2A-CGA-O1A | -2.13 | 118.22 | 123.59 |
| 25 | 9 | 310 | CLA | CHD-C1D-ND | -2.13 | 122.50 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | 1 | 616 | LUT | C10-C11-C12 | -2.13 | 116.58 | 123.22 |
| 34 | 3 | 315 | LUT | C21-C26-C27 | -2.13 | 110.01 | 112.70 |
| 34 | 9 | 312 | LUT | C38-C25-C24 | -2.13 | 119.01 | 123.56 |
| 25 | 7 | 304 | CLA | CHB-C4A-NA | 2.13 | 127.45 | 124.51 |
| 28 | A | 848 | BCR | C11-C12-C13 | -2.13 | 120.44 | 126.42 |
| 33 | P | 608 | CHL | C2A-C3A-C4A | -2.13 | 98.43 | 101.87 |
| 25 | P | 611 | CLA | CMB-C2B-C3B | 2.13 | 128.66 | 124.68 |
| 36 | R | 617 | NEX | C1-C2-C3 | -2.13 | 108.84 | 113.64 |
| 28 | A | 845 | BCR | C8-C7-C6 | -2.13 | 121.23 | 127.20 |
| 25 | 9 | 303 | CLA | C2D-C1D-ND | -2.13 | 108.54 | 110.10 |
| 30 | B | 848 | DGD | C1E-O6E-C5E | 2.13 | 117.86 | 113.69 |
| 33 | R | 607 | CHL | C2A-C3A-C4A | -2.13 | 98.44 | 101.87 |
| 28 | F | 803 | BCR | C4-C5-C6 | -2.13 | 119.64 | 122.73 |
| 34 | 8 | 317 | LUT | C35-C15-C14 | -2.12 | 119.12 | 123.47 |
| 25 | 3 | 311 | CLA | CHD-C1D-ND | -2.12 | 122.50 | 124.45 |
| 25 | A | 814 | CLA | O2A-CGA-O1A | -2.12 | 118.23 | 123.59 |
| 25 | U | 304 | CLA | O2A-CGA-O1A | -2.12 | 118.23 | 123.59 |
| 34 | 9 | 313 | LUT | C21-C26-C25 | -2.12 | 107.61 | 111.42 |
| 33 | 3 | 306 | CHL | CMB-C2B-C3B | 2.12 | 128.65 | 124.68 |
| 25 | R | 612 | CLA | CED-O2D-CGD | 2.12 | 120.74 | 115.94 |
| 25 | 8 | 311 | CLA | C1B-CHB-C4A | -2.12 | 125.91 | 130.12 |
| 25 | 1 | 613 | CLA | C2D-C1D-ND | -2.12 | 108.54 | 110.10 |
| 25 | 8 | 312 | CLA | O2D-CGD-O1D | -2.12 | 119.69 | 123.84 |
| 33 | R | 608 | CHL | C2A-C3A-C4A | -2.12 | 98.44 | 101.87 |
| 33 | R | 607 | CHL | C1B-CHB-C4A | -2.12 | 125.92 | 130.12 |
| 25 | A | 808 | CLA | CHD-C1D-ND | -2.12 | 122.50 | 124.45 |
| 25 | K | 204 | CLA | O2A-CGA-O1A | -2.12 | 118.01 | 123.30 |
| 28 | A | 845 | BCR | C16-C15-C14 | -2.12 | 119.13 | 123.47 |
| 28 | L | 207 | BCR | C16-C15-C14 | -2.12 | 119.13 | 123.47 |
| 34 | P | 615 | LUT | C20-C13-C12 | 2.12 | 121.42 | 118.08 |
| 25 | B | 821 | CLA | C1B-CHB-C4A | -2.12 | 125.92 | 130.12 |
| 25 | 4 | 309 | CLA | CHB-C4A-NA | 2.12 | 127.44 | 124.51 |
| 28 | F | 803 | BCR | C36-C18-C19 | 2.12 | 121.42 | 118.08 |
| 34 | 2 | 316 | LUT | C20-C13-C12 | 2.12 | 121.42 | 118.08 |
| 33 | 4 | 305 | CHL | CHC-C1C-NC | 2.12 | 127.42 | 124.20 |
| 33 | T | 604 | CHL | C4A-NA-C1A | -2.12 | 105.75 | 106.71 |
| 28 | 7 | 316 | BCR | C39-C30-C25 | -2.12 | 106.86 | 110.30 |
| 34 | 5 | 322 | LUT | C15-C14-C13 | -2.12 | 124.28 | 127.31 |
| 33 | S | 302 | CHL | CHB-C4A-NA | 2.12 | 127.44 | 124.51 |
| 28 | 6 | 621 | BCR | C2-C1-C6 | -2.12 | 107.22 | 110.48 |
| 33 | T | 607 | CHL | O2A-CGA-O1A | -2.12 | 118.25 | 123.59 |
| 34 | 4 | 316 | LUT | C7-C8-C9 | -2.12 | 123.03 | 126.23 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | 6 | 619 | LUT | C10-C11-C12 | -2.12 | 116.61 | 123.22 |
| 25 | P | 602 | CLA | O2A-CGA-O1A | -2.12 | 118.25 | 123.59 |
| 27 | 5 | 321 | LHG | O8-C23-O10 | -2.12 | 118.25 | 123.59 |
| 25 | P | 610 | CLA | C1-C2-C3 | -2.12 | 122.38 | 126.04 |
| 27 | S | 319 | LHG | C5-O7-C7 | -2.12 | 112.58 | 117.79 |
| 25 | B | 817 | CLA | O2D-CGD-CBD | 2.12 | 115.03 | 111.27 |
| 34 | U | 314 | LUT | C8-C7-C6 | -2.12 | 121.26 | 127.20 |
| 33 | 5 | 307 | CHL | C2A-C3A-C4A | -2.12 | 98.45 | 101.87 |
| 28 | A | 846 | BCR | C8-C7-C6 | -2.12 | 121.26 | 127.20 |
| 33 | 6 | 606 | CHL | O1D-CGD-CBD | -2.11 | 120.16 | 124.48 |
| 33 | 6 | 606 | CHL | OMC-CMC-C2C | -2.11 | 120.91 | 125.69 |
| 35 | P | 620 | XAT | C35-C15-C14 | -2.11 | 119.14 | 123.47 |
| 34 | R | 615 | LUT | C22-C23-C24 | 2.11 | 114.15 | 111.74 |
| 25 | U | 310 | CLA | C1-C2-C3 | -2.11 | 122.39 | 126.04 |
| 25 | P | 611 | CLA | C2A-C1A-CHA | -2.11 | 120.17 | 123.85 |
| 36 | R | 617 | NEX | C26-C27-C28 | -2.11 | 121.53 | 125.99 |
| 25 | B | 811 | CLA | C16-C15-C13 | -2.11 | 109.09 | 115.92 |
| 25 | 5 | 313 | CLA | CHA-C4D-ND | 2.11 | 136.92 | 132.50 |
| 28 | A | 845 | BCR | C23-C24-C25 | -2.11 | 121.27 | 127.20 |
| 25 | 8 | 313 | CLA | C1-C2-C3 | -2.11 | 122.39 | 126.04 |
| 25 | A | 808 | CLA | O2D-CGD-CBD | 2.11 | 115.02 | 111.27 |
| 25 | A | 835 | CLA | C2A-C1A-CHA | 2.11 | 127.55 | 123.86 |
| 25 | S | 303 | CLA | C1B-CHB-C4A | -2.11 | 125.94 | 130.12 |
| 36 | P | 617 | NEX | C38-C25-C24 | 2.11 | 116.65 | 114.28 |
| 34 | a | 314 | LUT | C1-C2-C3 | 2.11 | 118.41 | 113.64 |
| 36 | U | 316 | NEX | C5-C6-C1 | 2.11 | 121.79 | 119.70 |
| 34 | U | 315 | LUT | C16-C1-C6 | -2.11 | 106.88 | 110.30 |
| 25 | A | 840 | CLA | CMB-C2B-C3B | 2.11 | 128.62 | 124.68 |
| 33 | 5 | 307 | CHL | O2A-CGA-O1A | -2.11 | 118.27 | 123.59 |
| 28 | 6 | 621 | BCR | C37-C22-C23 | 2.11 | 121.40 | 118.08 |
| 25 | P | 612 | CLA | CED-O2D-CGD | 2.11 | 120.70 | 115.94 |
| 35 | T | 615 | XAT | C31-C32-C33 | -2.11 | 120.50 | 126.42 |
| 25 | P | 611 | CLA | C3C-C4C-NC | -2.11 | 108.21 | 110.57 |
| 28 | A | 849 | BCR | C38-C26-C27 | 2.11 | 117.66 | 113.62 |
| 34 | 6 | 622 | LUT | C22-C23-C24 | -2.11 | 109.34 | 111.74 |
| 25 | T | 612 | CLA | CAA-CBA-CGA | -2.11 | 107.10 | 113.25 |
| 30 | B | 846 | DGD | O3G-C3G-C2G | -2.11 | 105.82 | 110.90 |
| 33 | R | 607 | CHL | OMC-CMC-C2C | -2.11 | 120.93 | 125.69 |
| 34 | 9 | 312 | LUT | C21-C26-C27 | -2.11 | 110.04 | 112.70 |
| 28 | 4 | 321 | BCR | C1-C6-C5 | -2.10 | 119.65 | 122.61 |
| 33 | R | 607 | CHL | C1-C2-C3 | -2.10 | 122.40 | 126.04 |
| 34 | 1 | 615 | LUT | C11-C10-C9 | -2.10 | 124.31 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | 8 | 318 | BCR | C10-C11-C12 | -2.10 | 116.65 | 123.22 |
| 33 | S | 321 | CHL | C2A-C3A-C4A | -2.10 | 98.47 | 101.87 |
| 33 | P | 608 | CHL | CHB-C4A-NA | 2.10 | 127.42 | 124.51 |
| 34 | 2 | 315 | LUT | C38-C25-C24 | -2.10 | 119.06 | 123.56 |
| 34 | 5 | 322 | LUT | C40-C33-C34 | -2.10 | 119.98 | 122.92 |
| 33 | T | 601 | CHL | C4A-NA-C1A | 2.10 | 107.65 | 106.71 |
| 25 | P | 603 | CLA | CMA-C3A-C4A | -2.10 | 106.12 | 111.77 |
| 33 | Q | 607 | CHL | CHB-C4A-NA | 2.10 | 127.42 | 124.51 |
| 25 | Q | 609 | CLA | C1-C2-C3 | -2.10 | 122.41 | 126.04 |
| 25 | 3 | 309 | CLA | CAC-C3C-C4C | 2.10 | 127.54 | 124.81 |
| 28 | O | 205 | BCR | C1-C6-C5 | -2.10 | 119.66 | 122.61 |
| 32 | J | 102 | LMG | O8-C28-O10 | -2.10 | 118.29 | 123.59 |
| 25 | 7 | 301 | CLA | O2A-CGA-O1A | -2.10 | 118.29 | 123.59 |
| 33 | 1 | 601 | CHL | C4-C3-C5 | 2.10 | 118.80 | 115.27 |
| 28 | L | 207 | BCR | C34-C9-C10 | -2.10 | 119.98 | 122.92 |
| 33 | P | 619 | CHL | C1B-CHB-C4A | -2.10 | 125.96 | 130.12 |
| 28 | B | 845 | BCR | C33-C5-C4 | 2.10 | 117.65 | 113.62 |
| 33 | P | 607 | CHL | C1B-CHB-C4A | -2.10 | 125.96 | 130.12 |
| 35 | P | 616 | XAT | C31-C32-C33 | -2.10 | 120.52 | 126.42 |
| 33 | P | 619 | CHL | OMC-CMC-C2C | -2.10 | 120.94 | 125.69 |
| 33 | P | 607 | CHL | OMC-CMC-C2C | -2.10 | 120.94 | 125.69 |
| 25 | 9 | 301 | CLA | O2D-CGD-CBD | 2.10 | 114.99 | 111.27 |
| 25 | a | 312 | CLA | CHD-C1D-ND | -2.10 | 122.53 | 124.45 |
| 25 | 3 | 305 | CLA | CHD-C1D-ND | -2.09 | 122.53 | 124.45 |
| 25 | B | 807 | CLA | C11-C12-C13 | -2.09 | 109.15 | 115.92 |
| 25 | 9 | 308 | CLA | C3A-C2A-C1A | 2.09 | 104.48 | 101.34 |
| 33 | Q | 606 | CHL | OMC-CMC-C2C | -2.09 | 120.95 | 125.69 |
| 25 | S | 315 | CLA | C2D-C1D-ND | -2.09 | 108.56 | 110.10 |
| 28 | L | 204 | BCR | C11-C10-C9 | -2.09 | 124.32 | 127.31 |
| 25 | R | 603 | CLA | CHD-C1D-ND | -2.09 | 122.53 | 124.45 |
| 26 | A | 841 | PQN | C2M-C2-C1 | 2.09 | 119.74 | 116.27 |
| 33 | P | 619 | CHL | C1-C2-C3 | -2.09 | 122.42 | 126.04 |
| 33 | P | 607 | CHL | C1-C2-C3 | -2.09 | 122.42 | 126.04 |
| 25 | 5 | 309 | CLA | C2D-C1D-ND | -2.09 | 108.56 | 110.10 |
| 25 | 2 | 311 | CLA | O2A-CGA-O1A | -2.09 | 118.31 | 123.59 |
| 34 | P | 615 | LUT | C40-C33-C32 | 2.09 | 121.37 | 118.08 |
| 33 | S | 308 | CHL | C1B-CHB-C4A | -2.09 | 125.97 | 130.12 |
| 27 | 2 | 317 | LHG | O8-C23-C24 | 2.09 | 118.47 | 111.91 |
| 34 | U | 315 | LUT | C40-C33-C32 | 2.09 | 121.37 | 118.08 |
| 28 | B | 841 | BCR | C10-C11-C12 | -2.09 | 116.69 | 123.22 |
| 25 | 5 | 324 | CLA | C1B-CHB-C4A | -2.09 | 125.98 | 130.12 |
| 33 | 4 | 314 | CHL | OMC-CMC-C2C | -2.09 | 120.96 | 125.69 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | a | 316 | LUT | C31-C32-C33 | -2.09 | 120.54 | 126.42 |
| 25 | B | 801 | CLA | C16-C15-C13 | -2.09 | 109.17 | 115.92 |
| 35 | T | 615 | XAT | C4-C3-C2 | -2.09 | 106.74 | 110.77 |
| 25 | S | 311 | CLA | CHD-C1D-ND | -2.09 | 122.53 | 124.45 |
| 34 | 6 | 622 | LUT | C38-C25-C24 | -2.09 | 119.09 | 123.56 |
| 34 | 5 | 318 | LUT | C18-C5-C4 | 2.09 | 118.22 | 114.36 |
| 25 | 1 | 604 | CLA | CHB-C4A-NA | 2.09 | 127.40 | 124.51 |
| 28 | A | 849 | BCR | C33-C5-C6 | -2.09 | 122.18 | 124.53 |
| 34 | P | 615 | LUT | C39-C29-C30 | -2.09 | 120.00 | 122.92 |
| 33 | U | 309 | CHL | C3C-C4C-NC | 2.09 | 112.91 | 110.57 |
| 25 | 8 | 306 | CLA | CAA-C2A-C3A | -2.09 | 109.05 | 114.26 |
| 25 | 6 | 615 | CLA | O2A-CGA-O1A | -2.09 | 116.60 | 123.14 |
| 25 | B | 819 | CLA | CHD-C1D-ND | -2.09 | 122.54 | 124.45 |
| 25 | 5 | 316 | CLA | CHD-C1D-ND | -2.09 | 122.54 | 124.45 |
| 33 | S | 310 | CHL | O1D-CGD-CBD | -2.09 | 120.22 | 124.48 |
| 25 | A | 830 | CLA | C16-C15-C13 | -2.09 | 109.18 | 115.92 |
| 25 | B | 827 | CLA | C2D-C1D-ND | -2.09 | 108.57 | 110.10 |
| 33 | S | 308 | CHL | CED-O2D-CGD | 2.09 | 120.65 | 115.94 |
| 27 | 4 | 319 | LHG | O7-C7-O9 | -2.09 | 118.66 | 123.70 |
| 25 | 4 | 307 | CLA | O2A-CGA-O1A | -2.08 | 118.33 | 123.59 |
| 28 | F | 801 | BCR | C38-C26-C27 | 2.08 | 117.62 | 113.62 |
| 28 | B | 841 | BCR | C38-C26-C25 | -2.08 | 122.19 | 124.53 |
| 35 | P | 623 | XAT | C30-C31-C32 | -2.08 | 116.71 | 123.22 |
| 25 | H | 205 | CLA | O2D-CGD-CBD | 2.08 | 114.97 | 111.27 |
| 25 | 1 | 608 | CLA | CHB-C4A-NA | 2.08 | 127.39 | 124.51 |
| 34 | 3 | 315 | LUT | C38-C25-C24 | -2.08 | 119.10 | 123.56 |
| 25 | 4 | 310 | CLA | O2D-CGD-O1D | -2.08 | 119.76 | 123.84 |
| 25 | 7 | 304 | CLA | CAA-C2A-C3A | -2.08 | 109.05 | 114.26 |
| 33 | S | 307 | CHL | CHC-C1C-NC | 2.08 | 127.36 | 124.20 |
| 25 | 3 | 302 | CLA | O2D-CGD-O1D | -2.08 | 119.77 | 123.84 |
| 28 | J | 101 | BCR | C16-C17-C18 | -2.08 | 124.34 | 127.31 |
| 25 | 6 | 611 | CLA | C1B-CHB-C4A | -2.08 | 125.99 | 130.12 |
| 25 | Q | 611 | CLA | CHB-C4A-NA | 2.08 | 127.39 | 124.51 |
| 33 | R | 608 | CHL | CHB-C4A-NA | 2.08 | 127.39 | 124.51 |
| 25 | S | 320 | CLA | O2A-CGA-O1A | -2.08 | 118.34 | 123.59 |
| 33 | S | 306 | CHL | CED-O2D-CGD | 2.08 | 120.65 | 115.94 |
| 33 | 8 | 307 | CHL | CMB-C2B-C3B | 2.08 | 128.57 | 124.68 |
| 28 | G | 203 | BCR | C31-C1-C6 | -2.08 | 106.92 | 110.30 |
| 25 | A | 842 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 25 | B | 836 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 25 | A | 825 | CLA | C1-C2-C3 | -2.08 | 122.44 | 126.04 |
| 33 | 4 | 314 | CHL | CED-O2D-CGD | 2.08 | 120.64 | 115.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25 | B | 804 | CLA | C11-C12-C13 | -2.08 | 109.19 | 115.92 |
| 33 | 4 | 304 | CHL | O1D-CGD-CBD | -2.08 | 120.23 | 124.48 |
| 36 | R | 617 | NEX | C4-C3-C2 | -2.08 | 106.76 | 110.77 |
| 33 | 5 | 317 | CHL | C1B-CHB-C4A | -2.08 | 126.00 | 130.12 |
| 33 | 5 | 317 | CHL | OBD-CAD-C3D | -2.08 | 123.52 | 128.52 |
| 25 | 8 | 302 | CLA | O2A-CGA-O1A | -2.08 | 118.34 | 123.59 |
| 33 | S | 307 | CHL | CHD-C1D-C2D | 2.08 | 129.84 | 125.48 |
| 33 | S | 307 | CHL | O2D-CGD-O1D | -2.08 | 119.77 | 123.84 |
| 25 | A | 827 | CLA | C1B-CHB-C4A | -2.08 | 126.00 | 130.12 |
| 25 | A | 810 | CLA | C2D-C1D-ND | -2.08 | 108.57 | 110.10 |
| 33 | 5 | 308 | CHL | C4A-NA-C1A | -2.08 | 105.77 | 106.71 |
| 34 | 4 | 315 | LUT | C40-C33-C32 | 2.08 | 121.35 | 118.08 |
| 25 | 9 | 305 | CLA | O1D-CGD-CBD | 2.08 | 128.73 | 124.48 |
| 28 | B | 843 | BCR | C39-C30-C25 | -2.08 | 106.93 | 110.30 |
| 28 | 5 | 320 | BCR | C35-C13-C14 | -2.08 | 120.01 | 122.92 |
| 25 | 2 | 303 | CLA | CAC-C3C-C4C | 2.08 | 127.50 | 124.81 |
| 25 | 5 | 319 | CLA | C2D-C1D-ND | -2.08 | 108.57 | 110.10 |
| 25 | 7 | 309 | CLA | CMA-C3A-C2A | -2.08 | 111.25 | 116.10 |
| 34 | 8 | 317 | LUT | C20-C13-C14 | -2.08 | 120.02 | 122.92 |
| 25 | 6 | 610 | CLA | O2A-CGA-O1A | -2.08 | 118.35 | 123.59 |
| 28 | 5 | 320 | BCR | C20-C21-C22 | -2.08 | 124.35 | 127.31 |
| 25 | A | 814 | CLA | C1-C2-C3 | -2.07 | 122.45 | 126.04 |
| 28 | 8 | 318 | BCR | C35-C13-C14 | -2.07 | 120.02 | 122.92 |
| 25 | A | 836 | CLA | O1D-CGD-CBD | 2.07 | 128.73 | 124.48 |
| 25 | A | 803 | CLA | CHB-C4A-NA | 2.07 | 127.38 | 124.51 |
| 33 | 9 | 307 | CHL | CAA-CBA-CGA | -2.07 | 107.19 | 113.25 |
| 28 | A | 848 | BCR | C23-C24-C25 | -2.07 | 121.38 | 127.20 |
| 25 | A | 825 | CLA | CHA-C1A-NA | -2.07 | 121.65 | 126.40 |
| 25 | A | 812 | CLA | C3C-C4C-NC | -2.07 | 108.25 | 110.57 |
| 33 | P | 605 | CHL | C1B-CHB-C4A | -2.07 | 126.01 | 130.12 |
| 34 | a | 316 | LUT | C1-C6-C7 | 2.07 | 121.64 | 115.78 |
| 34 | 5 | 318 | LUT | C38-C25-C24 | -2.07 | 119.13 | 123.56 |
| 25 | A | 829 | CLA | O2A-CGA-O1A | -2.07 | 118.36 | 123.59 |
| 34 | 4 | 316 | LUT | C19-C9-C8 | 2.07 | 121.34 | 118.08 |
| 25 | 1 | 603 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |
| 28 | B | 842 | BCR | C36-C18-C17 | -2.07 | 120.02 | 122.92 |
| 28 | 8 | 301 | BCR | C38-C26-C27 | 2.07 | 117.59 | 113.62 |
| 25 | Q | 610 | CLA | CHD-C1D-ND | -2.07 | 122.55 | 124.45 |
| 33 | 6 | 608 | CHL | C3D-C4D-CHA | -2.07 | 107.99 | 112.72 |
| 33 | 4 | 305 | CHL | CMB-C2B-C3B | 2.07 | 128.55 | 124.68 |
| 25 | 1 | 612 | CLA | C1B-CHB-C4A | -2.07 | 126.02 | 130.12 |
| 33 | Q | 608 | CHL | C2C-C3C-C4C | 2.07 | 107.96 | 106.49 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | 5 | 320 | BCR | C11-C12-C13 | -2.07 | 120.61 | 126.42 |
| 25 | B | 830 | CLA | C2D-C1D-ND | -2.07 | 108.58 | 110.10 |
| 33 | P | 622 | CHL | OBD-CAD-C3D | -2.07 | 123.55 | 128.52 |
| 32 | 4 | 320 | LMG | C6-C5-C4 | -2.07 | 108.17 | 113.00 |
| 25 | 4 | 308 | CLA | O2A-CGA-O1A | -2.06 | 118.38 | 123.59 |
| 33 | 6 | 608 | CHL | C4A-NA-C1A | -2.06 | 105.78 | 106.71 |
| 35 | P | 623 | XAT | C18-C5-C4 | 2.06 | 116.60 | 114.28 |
| 34 | a | 315 | LUT | C10-C11-C12 | -2.06 | 116.78 | 123.22 |
| 25 | 2 | 313 | CLA | CAA-C2A-C1A | -2.06 | 105.21 | 111.97 |
| 34 | Q | 614 | LUT | C8-C7-C6 | -2.06 | 121.41 | 127.20 |
| 33 | 6 | 608 | CHL | C2A-C3A-C4A | -2.06 | 98.54 | 101.87 |
| 25 | 6 | 604 | CLA | CAA-CBA-CGA | -2.06 | 107.23 | 113.25 |
| 33 | P | 619 | CHL | C3D-C4D-CHA | -2.06 | 108.00 | 112.72 |
| 25 | 5 | 311 | CLA | O2A-CGA-O1A | -2.06 | 118.39 | 123.59 |
| 34 | 3 | 316 | LUT | C15-C35-C34 | -2.06 | 119.25 | 123.47 |
| 34 | 5 | 322 | LUT | C38-C25-C24 | -2.06 | 119.15 | 123.56 |
| 36 | P | 617 | NEX | C4-C3-C2 | -2.06 | 106.79 | 110.77 |
| 25 | 5 | 312 | CLA | CBA-CAA-C2A | -2.06 | 107.78 | 113.86 |
| 25 | B | 826 | CLA | C2D-C1D-ND | -2.06 | 108.59 | 110.10 |
| 25 | a | 309 | CLA | C2D-C1D-ND | -2.06 | 108.59 | 110.10 |
| 25 | A | 806 | CLA | O2A-CGA-O1A | -2.06 | 118.39 | 123.59 |
| 33 | 1 | 601 | CHL | OMC-CMC-C2C | -2.06 | 121.03 | 125.69 |
| 33 | R | 607 | CHL | C3D-C4D-CHA | -2.06 | 108.01 | 112.72 |
| 35 | Q | 616 | XAT | C4-C3-C2 | -2.06 | 106.80 | 110.77 |
| 25 | K | 201 | CLA | C2D-C1D-ND | -2.06 | 108.59 | 110.10 |
| 25 | 3 | 310 | CLA | C2D-C1D-ND | -2.06 | 108.59 | 110.10 |
| 25 | a | 308 | CLA | C4D-CHA-C1A | -2.06 | 118.74 | 121.25 |
| 25 | 8 | 302 | CLA | C2D-C1D-ND | -2.06 | 108.59 | 110.10 |
| 28 | I | 201 | BCR | C32-C1-C6 | -2.06 | 106.96 | 110.30 |
| 25 | A | 842 | CLA | O2A-CGA-O1A | -2.06 | 118.40 | 123.59 |
| 25 | a | 306 | CLA | O1D-CGD-CBD | 2.06 | 128.69 | 124.48 |
| 25 | 9 | 305 | CLA | C1B-CHB-C4A | -2.06 | 126.05 | 130.12 |
| 28 | A | 847 | BCR | C33-C5-C4 | 2.06 | 117.56 | 113.62 |
| 25 | L | 202 | CLA | C16-C15-C13 | -2.05 | 109.28 | 115.92 |
| 33 | U | 308 | CHL | CHB-C4A-NA | 2.05 | 127.35 | 124.51 |
| 25 | B | 824 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 33 | 4 | 306 | CHL | OBD-CAD-C3D | -2.05 | 123.58 | 128.52 |
| 33 | 6 | 608 | CHL | C5-C3-C4 | 2.05 | 119.14 | 114.60 |
| 28 | F | 803 | BCR | C24-C23-C22 | -2.05 | 123.13 | 126.23 |
| 33 | S | 310 | CHL | CED-O2D-CGD | 2.05 | 120.58 | 115.94 |
| 25 | B | 822 | CLA | C2D-C1D-ND | -2.05 | 108.59 | 110.10 |
| 27 | 5 | 321 | LHG | O7-C7-O9 | -2.05 | 118.74 | 123.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | B | 841 | BCR | C34-C9-C10 | -2.05 | 120.05 | 122.92 |
| 25 | B | 801 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 33 | S | 310 | CHL | O2D-CGD-O1D | -2.05 | 119.83 | 123.84 |
| 25 | B | 818 | CLA | C2D-C1D-ND | -2.05 | 108.59 | 110.10 |
| 34 | a | 316 | LUT | C39-C29-C30 | -2.05 | 120.05 | 122.92 |
| 34 | 2 | 316 | LUT | C15-C14-C13 | -2.05 | 124.38 | 127.31 |
| 33 | R | 606 | CHL | O2D-CGD-O1D | -2.05 | 119.83 | 123.84 |
| 25 | R | 602 | CLA | CAC-C3C-C4C | 2.05 | 127.47 | 124.81 |
| 33 | P | 607 | CHL | C3D-C4D-CHA | -2.05 | 108.03 | 112.72 |
| 25 | a | 302 | CLA | C2D-C1D-ND | -2.05 | 108.59 | 110.10 |
| 33 | T | 607 | CHL | CHC-C1C-NC | 2.05 | 127.31 | 124.20 |
| 28 | L | 204 | BCR | C8-C9-C10 | 2.05 | 122.09 | 118.94 |
| 25 | P | 611 | CLA | CMC-C2C-C1C | 2.05 | 128.16 | 125.04 |
| 28 | 7 | 316 | BCR | C37-C22-C23 | 2.05 | 121.31 | 118.08 |
| 34 | 6 | 622 | LUT | C39-C29-C28 | 2.05 | 121.31 | 118.08 |
| 34 | U | 315 | LUT | C20-C13-C12 | 2.05 | 121.31 | 118.08 |
| 28 | J | 101 | BCR | C1-C6-C7 | 2.05 | 121.57 | 115.78 |
| 25 | Q | 604 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 34 | T | 613 | LUT | C8-C7-C6 | -2.05 | 121.45 | 127.20 |
| 33 | P | 609 | CHL | C2A-C1A-CHA | 2.05 | 127.44 | 123.86 |
| 33 | U | 306 | CHL | OBD-CAD-C3D | -2.05 | 123.59 | 128.52 |
| 33 | T | 604 | CHL | C1B-CHB-C4A | -2.05 | 126.06 | 130.12 |
| 33 | S | 306 | CHL | C4A-NA-C1A | -2.05 | 105.79 | 106.71 |
| 25 | 1 | 609 | CLA | C4D-CHA-C1A | -2.05 | 118.76 | 121.25 |
| 28 | A | 854 | BCR | C35-C13-C14 | -2.05 | 120.06 | 122.92 |
| 34 | 8 | 317 | LUT | C38-C25-C24 | -2.05 | 119.18 | 123.56 |
| 25 | 3 | 307 | CLA | O2A-CGA-O1A | -2.04 | 118.43 | 123.59 |
| 25 | 7 | 310 | CLA | CAA-CBA-CGA | -2.04 | 107.28 | 113.25 |
| 25 | T | 608 | CLA | C1-C2-C3 | -2.04 | 122.51 | 126.04 |
| 33 | T | 606 | CHL | OBD-CAD-C3D | -2.04 | 123.60 | 128.52 |
| 28 | 8 | 318 | BCR | C29-C30-C25 | 2.04 | 113.63 | 110.48 |
| 34 | 9 | 313 | LUT | C8-C7-C6 | -2.04 | 121.47 | 127.20 |
| 25 | A | 819 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 25 | 1 | 602 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 25 | A | 821 | CLA | O2A-CGA-O1A | -2.04 | 118.21 | 123.30 |
| 25 | 1 | 612 | CLA | O1D-CGD-CBD | 2.04 | 128.66 | 124.48 |
| 25 | a | 308 | CLA | O1D-CGD-CBD | 2.04 | 128.66 | 124.48 |
| 34 | 9 | 313 | LUT | C39-C29-C28 | 2.04 | 121.29 | 118.08 |
| 25 | 4 | 303 | CLA | O1D-CGD-CBD | 2.04 | 128.66 | 124.48 |
| 25 | 3 | 304 | CLA | CHD-C1D-ND | -2.04 | 122.58 | 124.45 |
| 25 | B | 822 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 25 | 6 | 614 | CLA | O1A-CGA-CBA | 2.04 | 129.64 | 123.08 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | 8 | 307 | CHL | C3D-C4D-CHA | -2.04 | 108.05 | 112.72 |
| 25 | A | 815 | CLA | C1-C2-C3 | -2.04 | 122.51 | 126.04 |
| 25 | 5 | 324 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 25 | 2 | 308 | CLA | C2D-C1D-ND | -2.04 | 108.60 | 110.10 |
| 33 | S | 306 | CHL | C3B-C4B-NB | 2.04 | 111.85 | 109.21 |
| 25 | 9 | 301 | CLA | CHD-C1D-ND | -2.04 | 122.58 | 124.45 |
| 34 | 1 | 617 | LUT | C15-C35-C34 | -2.04 | 119.30 | 123.47 |
| 25 | 7 | 308 | CLA | CAA-C2A-C3A | -2.04 | 107.19 | 112.78 |
| 34 | 1 | 617 | LUT | C31-C32-C33 | -2.04 | 120.69 | 126.42 |
| 34 | P | 614 | LUT | C16-C1-C6 | -2.04 | 106.99 | 110.30 |
| 34 | 6 | 622 | LUT | C20-C13-C12 | 2.04 | 121.29 | 118.08 |
| 28 | L | 208 | BCR | C8-C7-C6 | -2.04 | 121.48 | 127.20 |
| 34 | P | 615 | LUT | C30-C31-C32 | -2.04 | 116.86 | 123.22 |
| 25 | 2 | 304 | CLA | O2A-CGA-O1A | -2.04 | 118.45 | 123.59 |
| 25 | T | 602 | CLA | C2D-C1D-ND | -2.04 | 108.60 | 110.10 |
| 28 | B | 840 | BCR | C1-C6-C5 | -2.04 | 119.75 | 122.61 |
| 34 | R | 616 | LUT | C30-C31-C32 | -2.04 | 116.87 | 123.22 |
| 25 | S | 314 | CLA | O2A-CGA-O1A | -2.03 | 118.46 | 123.59 |
| 25 | B | 804 | CLA | O1D-CGD-CBD | 2.03 | 128.65 | 124.48 |
| 34 | S | 317 | LUT | C39-C29-C30 | -2.03 | 120.07 | 122.92 |
| 32 | 4 | 320 | LMG | O6-C1-C2 | -2.03 | 106.04 | 110.35 |
| 25 | 1 | 612 | CLA | CAA-C2A-C3A | -2.03 | 107.21 | 112.78 |
| 28 | 7 | 316 | BCR | C36-C18-C17 | -2.03 | 120.08 | 122.92 |
| 33 | S | 308 | CHL | C4A-NA-C1A | -2.03 | 105.79 | 106.71 |
| 33 | 6 | 607 | CHL | CED-O2D-CGD | 2.03 | 120.53 | 115.94 |
| 25 | 6 | 623 | CLA | O2A-CGA-O1A | -2.03 | 118.46 | 123.59 |
| 28 | 6 | 621 | BCR | C35-C13-C14 | -2.03 | 120.08 | 122.92 |
| 25 | U | 302 | CLA | C2D-C1D-ND | -2.03 | 108.61 | 110.10 |
| 34 | U | 315 | LUT | C30-C31-C32 | -2.03 | 116.88 | 123.22 |
| 25 | B | 808 | CLA | CHB-C4A-NA | 2.03 | 127.32 | 124.51 |
| 25 | 9 | 309 | CLA | CHD-C1D-ND | -2.03 | 122.59 | 124.45 |
| 33 | S | 308 | CHL | C1-C2-C3 | -2.03 | 122.53 | 126.04 |
| 25 | 2 | 307 | CLA | C2D-C1D-ND | -2.03 | 108.61 | 110.10 |
| 28 | O | 204 | BCR | C16-C15-C14 | -2.03 | 119.32 | 123.47 |
| 25 | 7 | 309 | CLA | O2D-CGD-CBD | 2.03 | 114.87 | 111.27 |
| 33 | P | 622 | CHL | C1-O2A-CGA | 2.03 | 121.77 | 116.44 |
| 25 | 8 | 304 | CLA | O2A-CGA-O1A | -2.03 | 118.24 | 123.30 |
| 34 | 7 | 314 | LUT | C20-C13-C12 | 2.03 | 121.27 | 118.08 |
| 25 | 7 | 302 | CLA | O2D-CGD-CBD | 2.03 | 114.87 | 111.27 |
| 27 | A | 852 | LHG | O7-C7-O9 | -2.03 | 118.80 | 123.70 |
| 25 | A | 811 | CLA | C16-C15-C13 | -2.03 | 109.36 | 115.92 |
| 28 | L | 203 | BCR | C23-C24-C25 | -2.03 | 121.51 | 127.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 28 | F | 801 | BCR | C10-C11-C12 | -2.03 | 116.89 | 123.22 |
| 32 | 7 | 319 | LMG | O8-C28-O10 | -2.03 | 118.48 | 123.59 |
| 25 | B | 824 | CLA | O2D-CGD-CBD | 2.03 | 114.87 | 111.27 |
| 33 | R | 609 | CHL | C2A-C1A-CHA | 2.03 | 127.40 | 123.86 |
| 32 | 2 | 301 | LMG | C9-C8-C7 | -2.03 | 107.00 | 111.79 |
| 25 | B | 821 | CLA | CAA-CBA-CGA | -2.03 | 107.33 | 113.25 |
| 34 | Q | 615 | LUT | C3-C4-C5 | -2.02 | 107.82 | 111.85 |
| 25 | Q | 613 | CLA | CHD-C1D-ND | -2.02 | 122.59 | 124.45 |
| 25 | 3 | 301 | CLA | C7-C6-C5 | -2.02 | 107.86 | 113.36 |
| 27 | a | 317 | LHG | O7-C7-O9 | -2.02 | 118.81 | 123.70 |
| 28 | L | 203 | BCR | C28-C29-C30 | -2.02 | 107.37 | 114.60 |
| 33 | U | 305 | CHL | CAA-C2A-C3A | -2.02 | 107.24 | 112.78 |
| 35 | P | 620 | XAT | C38-C25-C24 | 2.02 | 116.55 | 114.28 |
| 25 | L | 209 | CLA | CHA-C1A-NA | -2.02 | 121.77 | 126.40 |
| 25 | K | 201 | CLA | CAC-C3C-C4C | 2.02 | 127.43 | 124.81 |
| 25 | 1 | 605 | CLA | O2D-CGD-CBD | 2.02 | 114.86 | 111.27 |
| 25 | A | 802 | CLA | C1-C2-C3 | -2.02 | 122.55 | 126.04 |
| 25 | Q | 604 | CLA | CMC-C2C-C1C | -2.02 | 121.96 | 125.04 |
| 28 | A | 848 | BCR | C16-C15-C14 | -2.02 | 119.34 | 123.47 |
| 33 | 1 | 606 | CHL | O1D-CGD-CBD | -2.02 | 120.35 | 124.48 |
| 25 | B | 806 | CLA | CAA-CBA-CGA | -2.02 | 107.36 | 113.25 |
| 35 | P | 616 | XAT | O4-C5-C6 | -2.02 | 57.29 | 58.96 |
| 33 | T | 605 | CHL | OMC-CMC-C2C | -2.02 | 121.12 | 125.69 |
| 25 | 1 | 611 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 25 | R | 602 | CLA | C2D-C1D-ND | -2.02 | 108.62 | 110.10 |
| 25 | 8 | 314 | CLA | CMB-C2B-C3B | 2.02 | 128.45 | 124.68 |
| 25 | A | 831 | CLA | C1-C2-C3 | -2.02 | 123.49 | 126.75 |
| 25 | B | 802 | CLA | O1D-CGD-CBD | 2.02 | 128.61 | 124.48 |
| 35 | P | 620 | XAT | C4-C3-C2 | -2.02 | 106.88 | 110.77 |
| 34 | 3 | 315 | LUT | C20-C13-C14 | -2.02 | 120.10 | 122.92 |
| 25 | 8 | 305 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 35 | T | 615 | XAT | C38-C25-C24 | 2.02 | 116.55 | 114.28 |
| 25 | Q | 611 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 36 | U | 316 | NEX | C31-C32-C33 | -2.01 | 120.76 | 126.42 |
| 35 | S | 318 | XAT | C4-C3-C2 | -2.01 | 106.88 | 110.77 |
| 33 | 3 | 306 | CHL | OBD-CAD-C3D | -2.01 | 123.67 | 128.52 |
| 33 | U | 306 | CHL | OMC-CMC-C2C | -2.01 | 121.13 | 125.69 |
| 28 | A | 846 | BCR | C23-C24-C25 | -2.01 | 121.55 | 127.20 |
| 25 | R | 602 | CLA | O2A-CGA-O1A | -2.01 | 118.51 | 123.59 |
| 27 | B | 847 | LHG | O8-C23-O10 | -2.01 | 118.51 | 123.59 |
| 32 | H | 204 | LMG | O7-C10-O9 | -2.01 | 118.84 | 123.70 |
| 33 | Q | 608 | CHL | C2A-C1A-CHA | 2.01 | 127.38 | 123.86 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 33 | S | 302 | CHL | CAA-CBA-CGA | -2.01 | 107.38 | 113.25 |
| 34 | 7 | 314 | LUT | C35-C15-C14 | -2.01 | 119.36 | 123.47 |
| 25 | 2 | 312 | CLA | C3C-C4C-NC | -2.01 | 108.32 | 110.57 |
| 34 | 1 | 617 | LUT | C19-C9-C8 | 2.01 | 121.25 | 118.08 |
| 34 | a | 316 | LUT | C16-C1-C6 | -2.01 | 107.04 | 110.30 |
| 33 | P | 606 | CHL | OBD-CAD-C3D | -2.01 | 123.68 | 128.52 |
| 33 | P | 609 | CHL | C4D-CHA-C1A | 2.01 | 123.69 | 121.25 |
| 32 | J | 104 | LMG | O8-C28-O10 | -2.01 | 118.52 | 123.59 |
| 25 | 7 | 303 | CLA | C2D-C1D-ND | -2.01 | 108.62 | 110.10 |
| 25 | S | 303 | CLA | CMA-C3A-C2A | -2.01 | 105.72 | 113.83 |
| 33 | 4 | 304 | CHL | CMA-C3A-C2A | -2.01 | 111.41 | 116.10 |
| 25 | 8 | 314 | CLA | C2A-C3A-C4A | 2.01 | 105.11 | 101.87 |
| 28 | L | 204 | BCR | C3-C2-C1 | -2.01 | 107.42 | 114.60 |
| 25 | U | 311 | CLA | CHB-C4A-NA | 2.01 | 127.29 | 124.51 |
| 25 | a | 308 | CLA | CMC-C2C-C1C | -2.01 | 121.98 | 125.04 |
| 34 | S | 316 | LUT | C11-C10-C9 | -2.01 | 124.44 | 127.31 |
| 34 | R | 616 | LUT | C7-C8-C9 | -2.01 | 123.20 | 126.23 |
| 34 | 3 | 315 | LUT | C19-C9-C8 | 2.01 | 121.24 | 118.08 |
| 28 | B | 843 | BCR | C4-C5-C6 | -2.01 | 119.82 | 122.73 |
| 25 | G | 201 | CLA | O2A-CGA-O1A | -2.01 | 118.53 | 123.59 |
| 25 | 8 | 313 | CLA | CHB-C4A-NA | 2.01 | 127.29 | 124.51 |
| 25 | 8 | 314 | CLA | CMA-C3A-C2A | -2.01 | 105.74 | 113.83 |
| 34 | T | 614 | LUT | C3-C4-C5 | -2.01 | 107.86 | 111.85 |
| 25 | R | 610 | CLA | C3A-C2A-C1A | 2.01 | 104.34 | 101.34 |
| 28 | O | 204 | BCR | C37-C22-C21 | -2.01 | 120.11 | 122.92 |
| 25 | R | 613 | CLA | CHD-C1D-ND | -2.00 | 122.61 | 124.45 |
| 25 | Q | 612 | CLA | C3A-C2A-C1A | 2.00 | 104.34 | 101.34 |
| 25 | B | 849 | CLA | C2D-C1D-ND | -2.00 | 108.63 | 110.10 |
| 25 | P | 613 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 25 | G | 202 | CLA | CAA-CBA-CGA | -2.00 | 107.40 | 113.25 |
| 25 | 3 | 309 | CLA | C2D-C1D-ND | -2.00 | 108.63 | 110.10 |
| 28 | I | 201 | BCR | C27-C26-C25 | -2.00 | 119.82 | 122.73 |
| 34 | 9 | 313 | LUT | C21-C26-C27 | -2.00 | 110.17 | 112.70 |
| 34 | Q | 614 | LUT | C20-C13-C14 | -2.00 | 120.12 | 122.92 |
| 34 | 9 | 312 | LUT | C40-C33-C34 | -2.00 | 120.12 | 122.92 |
| 25 | 7 | 301 | CLA | C2D-C1D-ND | -2.00 | 108.63 | 110.10 |
| 25 | U | 304 | CLA | CMC-C2C-C3C | 2.00 | 131.55 | 126.12 |
| 36 | P | 621 | NEX | O24-C25-C26 | -2.00 | 57.30 | 58.96 |
| 25 | Q | 603 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 34 | S | 316 | LUT | C7-C8-C9 | -2.00 | 123.21 | 126.23 |
| 25 | Q | 612 | CLA | CAC-C3C-C4C | 2.00 | 127.41 | 124.81 |

All (439) chirality outliers are listed below:

| Mol | Chain | Res | Type | Atom |
|-----|-------|-----|------|------|
| 25 | A | 801 | CLA | ND |
| 25 | A | 802 | CLA | ND |
| 25 | A | 803 | CLA | ND |
| 25 | A | 804 | CLA | ND |
| 25 | A | 805 | CLA | ND |
| 25 | A | 806 | CLA | ND |
| 25 | A | 807 | CLA | ND |
| 25 | A | 808 | CLA | ND |
| 25 | A | 809 | CLA | ND |
| 25 | A | 810 | CLA | ND |
| 25 | A | 811 | CLA | ND |
| 25 | A | 812 | CLA | ND |
| 25 | A | 813 | CLA | ND |
| 25 | A | 814 | CLA | ND |
| 25 | A | 815 | CLA | ND |
| 25 | A | 816 | CLA | ND |
| 25 | A | 817 | CLA | ND |
| 25 | A | 818 | CLA | ND |
| 25 | A | 819 | CLA | ND |
| 25 | A | 820 | CLA | ND |
| 25 | A | 821 | CLA | ND |
| 25 | A | 822 | CLA | ND |
| 25 | A | 823 | CLA | ND |
| 25 | A | 824 | CLA | ND |
| 25 | A | 825 | CLA | ND |
| 25 | A | 826 | CLA | ND |
| 25 | A | 827 | CLA | ND |
| 25 | A | 828 | CLA | ND |
| 25 | A | 829 | CLA | ND |
| 25 | A | 830 | CLA | ND |
| 25 | A | 831 | CLA | ND |
| 25 | A | 832 | CLA | ND |
| 25 | A | 833 | CLA | ND |
| 25 | A | 834 | CLA | ND |
| 25 | A | 835 | CLA | ND |
| 25 | A | 836 | CLA | ND |
| 25 | A | 837 | CLA | ND |
| 25 | A | 838 | CLA | ND |
| 25 | A | 839 | CLA | ND |
| 25 | A | 840 | CLA | ND |
| 25 | A | 842 | CLA | ND |
| 25 | A | 851 | CLA | ND |
| 25 | A | 853 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 25 | B | 801 | CLA | ND |
| 25 | B | 802 | CLA | ND |
| 25 | B | 803 | CLA | ND |
| 25 | B | 804 | CLA | ND |
| 25 | B | 805 | CLA | ND |
| 25 | B | 806 | CLA | ND |
| 25 | B | 807 | CLA | ND |
| 25 | B | 808 | CLA | ND |
| 25 | B | 809 | CLA | ND |
| 25 | B | 810 | CLA | ND |
| 25 | B | 811 | CLA | ND |
| 25 | B | 812 | CLA | ND |
| 25 | B | 813 | CLA | ND |
| 25 | B | 814 | CLA | ND |
| 25 | B | 815 | CLA | ND |
| 25 | B | 816 | CLA | ND |
| 25 | B | 817 | CLA | ND |
| 25 | B | 818 | CLA | ND |
| 25 | B | 819 | CLA | ND |
| 25 | B | 820 | CLA | ND |
| 25 | B | 821 | CLA | ND |
| 25 | B | 822 | CLA | ND |
| 25 | B | 823 | CLA | ND |
| 25 | B | 824 | CLA | ND |
| 25 | B | 825 | CLA | ND |
| 25 | B | 826 | CLA | ND |
| 25 | B | 827 | CLA | ND |
| 25 | B | 828 | CLA | ND |
| 25 | B | 829 | CLA | ND |
| 25 | B | 830 | CLA | ND |
| 25 | B | 831 | CLA | ND |
| 25 | B | 832 | CLA | ND |
| 25 | B | 833 | CLA | ND |
| 25 | B | 834 | CLA | ND |
| 25 | B | 835 | CLA | ND |
| 25 | B | 836 | CLA | ND |
| 25 | B | 837 | CLA | ND |
| 25 | B | 838 | CLA | ND |
| 25 | B | 849 | CLA | ND |
| 25 | F | 802 | CLA | ND |
| 25 | G | 201 | CLA | ND |
| 25 | G | 202 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 25 | H | 201 | CLA | ND |
| 25 | H | 202 | CLA | ND |
| 25 | H | 203 | CLA | ND |
| 25 | H | 205 | CLA | ND |
| 25 | J | 103 | CLA | ND |
| 25 | J | 105 | CLA | ND |
| 25 | K | 201 | CLA | ND |
| 25 | K | 202 | CLA | ND |
| 25 | K | 203 | CLA | ND |
| 25 | K | 204 | CLA | ND |
| 25 | K | 205 | CLA | ND |
| 25 | L | 201 | CLA | ND |
| 25 | L | 202 | CLA | ND |
| 25 | L | 205 | CLA | ND |
| 25 | L | 206 | CLA | ND |
| 25 | L | 209 | CLA | ND |
| 25 | O | 201 | CLA | ND |
| 25 | O | 202 | CLA | ND |
| 25 | O | 203 | CLA | ND |
| 25 | P | 602 | CLA | ND |
| 25 | P | 603 | CLA | ND |
| 25 | P | 604 | CLA | ND |
| 25 | P | 610 | CLA | ND |
| 25 | P | 611 | CLA | ND |
| 25 | P | 612 | CLA | ND |
| 25 | P | 613 | CLA | ND |
| 25 | Q | 602 | CLA | ND |
| 25 | Q | 603 | CLA | ND |
| 25 | Q | 604 | CLA | ND |
| 25 | Q | 609 | CLA | ND |
| 25 | Q | 610 | CLA | ND |
| 25 | Q | 611 | CLA | ND |
| 25 | Q | 612 | CLA | ND |
| 25 | Q | 613 | CLA | ND |
| 25 | R | 602 | CLA | ND |
| 25 | R | 603 | CLA | ND |
| 25 | R | 604 | CLA | ND |
| 25 | R | 610 | CLA | ND |
| 25 | R | 611 | CLA | ND |
| 25 | R | 612 | CLA | ND |
| 25 | R | 613 | CLA | ND |
| 25 | R | 614 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 25 | S | 301 | CLA | ND |
| 25 | S | 303 | CLA | ND |
| 25 | S | 304 | CLA | ND |
| 25 | S | 305 | CLA | ND |
| 25 | S | 311 | CLA | ND |
| 25 | S | 312 | CLA | ND |
| 25 | S | 313 | CLA | ND |
| 25 | S | 315 | CLA | ND |
| 25 | S | 320 | CLA | ND |
| 25 | T | 602 | CLA | ND |
| 25 | T | 603 | CLA | ND |
| 25 | T | 608 | CLA | ND |
| 25 | T | 610 | CLA | ND |
| 25 | T | 611 | CLA | ND |
| 25 | T | 612 | CLA | ND |
| 25 | U | 302 | CLA | ND |
| 25 | U | 303 | CLA | ND |
| 25 | U | 304 | CLA | ND |
| 25 | U | 310 | CLA | ND |
| 25 | U | 311 | CLA | ND |
| 25 | U | 312 | CLA | ND |
| 25 | U | 313 | CLA | ND |
| 25 | 1 | 602 | CLA | ND |
| 25 | 1 | 603 | CLA | ND |
| 25 | 1 | 604 | CLA | ND |
| 25 | 1 | 605 | CLA | ND |
| 25 | 1 | 607 | CLA | ND |
| 25 | 1 | 608 | CLA | ND |
| 25 | 1 | 609 | CLA | ND |
| 25 | 1 | 610 | CLA | ND |
| 25 | 1 | 611 | CLA | ND |
| 25 | 1 | 612 | CLA | ND |
| 25 | 1 | 613 | CLA | ND |
| 25 | 1 | 614 | CLA | ND |
| 25 | 2 | 302 | CLA | ND |
| 25 | 2 | 303 | CLA | ND |
| 25 | 2 | 304 | CLA | ND |
| 25 | 2 | 305 | CLA | ND |
| 25 | 2 | 306 | CLA | ND |
| 25 | 2 | 307 | CLA | ND |
| 25 | 2 | 308 | CLA | ND |
| 25 | 2 | 309 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 25 | 2 | 310 | CLA | ND |
| 25 | 2 | 311 | CLA | ND |
| 25 | 2 | 312 | CLA | ND |
| 25 | 2 | 313 | CLA | ND |
| 25 | 2 | 314 | CLA | ND |
| 25 | 3 | 301 | CLA | ND |
| 25 | 3 | 302 | CLA | ND |
| 25 | 3 | 303 | CLA | ND |
| 25 | 3 | 304 | CLA | ND |
| 25 | 3 | 305 | CLA | ND |
| 25 | 3 | 307 | CLA | ND |
| 25 | 3 | 308 | CLA | ND |
| 25 | 3 | 309 | CLA | ND |
| 25 | 3 | 310 | CLA | ND |
| 25 | 3 | 311 | CLA | ND |
| 25 | 3 | 312 | CLA | ND |
| 25 | 3 | 313 | CLA | ND |
| 25 | 3 | 314 | CLA | ND |
| 25 | 3 | 320 | CLA | ND |
| 25 | 4 | 301 | CLA | ND |
| 25 | 4 | 302 | CLA | ND |
| 25 | 4 | 303 | CLA | ND |
| 25 | 4 | 307 | CLA | ND |
| 25 | 4 | 308 | CLA | ND |
| 25 | 4 | 309 | CLA | ND |
| 25 | 4 | 310 | CLA | ND |
| 25 | 4 | 311 | CLA | ND |
| 25 | 4 | 312 | CLA | ND |
| 25 | 4 | 313 | CLA | ND |
| 25 | 5 | 302 | CLA | ND |
| 25 | 5 | 304 | CLA | ND |
| 25 | 5 | 305 | CLA | ND |
| 25 | 5 | 306 | CLA | ND |
| 25 | 5 | 309 | CLA | ND |
| 25 | 5 | 310 | CLA | ND |
| 25 | 5 | 311 | CLA | ND |
| 25 | 5 | 312 | CLA | ND |
| 25 | 5 | 313 | CLA | ND |
| 25 | 5 | 314 | CLA | ND |
| 25 | 5 | 315 | CLA | ND |
| 25 | 5 | 316 | CLA | ND |
| 25 | 5 | 324 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 25 | 6 | 601 | CLA | ND |
| 25 | 6 | 603 | CLA | ND |
| 25 | 6 | 604 | CLA | ND |
| 25 | 6 | 605 | CLA | ND |
| 25 | 6 | 609 | CLA | ND |
| 25 | 6 | 610 | CLA | ND |
| 25 | 6 | 611 | CLA | ND |
| 25 | 6 | 612 | CLA | ND |
| 25 | 6 | 613 | CLA | ND |
| 25 | 6 | 614 | CLA | ND |
| 25 | 6 | 615 | CLA | ND |
| 25 | 6 | 616 | CLA | ND |
| 25 | 6 | 620 | CLA | ND |
| 25 | 6 | 623 | CLA | ND |
| 25 | 7 | 301 | CLA | ND |
| 25 | 7 | 302 | CLA | ND |
| 25 | 7 | 303 | CLA | ND |
| 25 | 7 | 304 | CLA | ND |
| 25 | 7 | 306 | CLA | ND |
| 25 | 7 | 307 | CLA | ND |
| 25 | 7 | 308 | CLA | ND |
| 25 | 7 | 309 | CLA | ND |
| 25 | 7 | 310 | CLA | ND |
| 25 | 7 | 311 | CLA | ND |
| 25 | 7 | 312 | CLA | ND |
| 25 | 7 | 313 | CLA | ND |
| 25 | 8 | 302 | CLA | ND |
| 25 | 8 | 303 | CLA | ND |
| 25 | 8 | 304 | CLA | ND |
| 25 | 8 | 305 | CLA | ND |
| 25 | 8 | 306 | CLA | ND |
| 25 | 8 | 308 | CLA | ND |
| 25 | 8 | 309 | CLA | ND |
| 25 | 8 | 310 | CLA | ND |
| 25 | 8 | 311 | CLA | ND |
| 25 | 8 | 312 | CLA | ND |
| 25 | 8 | 313 | CLA | ND |
| 25 | 8 | 314 | CLA | ND |
| 25 | 8 | 315 | CLA | ND |
| 25 | 9 | 301 | CLA | ND |
| 25 | 9 | 302 | CLA | ND |
| 25 | 9 | 303 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 25 | 9 | 304 | CLA | ND |
| 25 | 9 | 305 | CLA | ND |
| 25 | 9 | 308 | CLA | ND |
| 25 | 9 | 309 | CLA | ND |
| 25 | 9 | 310 | CLA | ND |
| 25 | 9 | 311 | CLA | ND |
| 25 | a | 301 | CLA | ND |
| 25 | a | 302 | CLA | ND |
| 25 | a | 303 | CLA | ND |
| 25 | a | 304 | CLA | ND |
| 25 | a | 306 | CLA | ND |
| 25 | a | 307 | CLA | ND |
| 25 | a | 308 | CLA | ND |
| 25 | a | 309 | CLA | ND |
| 25 | a | 310 | CLA | ND |
| 25 | a | 311 | CLA | ND |
| 25 | a | 312 | CLA | ND |
| 25 | a | 313 | CLA | ND |
| 33 | P | 601 | CHL | ND |
| 33 | P | 601 | CHL | NA |
| 33 | P | 601 | CHL | NC |
| 33 | P | 605 | CHL | ND |
| 33 | P | 605 | CHL | NA |
| 33 | P | 605 | CHL | NC |
| 33 | P | 606 | CHL | ND |
| 33 | P | 606 | CHL | NA |
| 33 | P | 606 | CHL | NC |
| 33 | P | 607 | CHL | ND |
| 33 | P | 607 | CHL | NA |
| 33 | P | 607 | CHL | NC |
| 33 | P | 608 | CHL | ND |
| 33 | P | 608 | CHL | NA |
| 33 | P | 608 | CHL | NC |
| 33 | P | 609 | CHL | ND |
| 33 | P | 609 | CHL | NA |
| 33 | P | 609 | CHL | NC |
| 33 | P | 619 | CHL | ND |
| 33 | P | 619 | CHL | NA |
| 33 | P | 619 | CHL | NC |
| 33 | P | 622 | CHL | ND |
| 33 | P | 622 | CHL | NA |
| 33 | P | 622 | CHL | NC |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 33 | Q | 601 | CHL | ND |
| 33 | Q | 601 | CHL | NA |
| 33 | Q | 601 | CHL | NC |
| 33 | Q | 605 | CHL | ND |
| 33 | Q | 605 | CHL | NA |
| 33 | Q | 605 | CHL | NC |
| 33 | Q | 606 | CHL | ND |
| 33 | Q | 606 | CHL | NA |
| 33 | Q | 606 | CHL | NC |
| 33 | Q | 607 | CHL | ND |
| 33 | Q | 607 | CHL | NA |
| 33 | Q | 607 | CHL | NC |
| 33 | Q | 608 | CHL | ND |
| 33 | Q | 608 | CHL | NA |
| 33 | Q | 608 | CHL | NC |
| 33 | R | 601 | CHL | ND |
| 33 | R | 601 | CHL | NA |
| 33 | R | 601 | CHL | NC |
| 33 | R | 605 | CHL | ND |
| 33 | R | 605 | CHL | NA |
| 33 | R | 605 | CHL | NC |
| 33 | R | 606 | CHL | ND |
| 33 | R | 606 | CHL | NA |
| 33 | R | 606 | CHL | NC |
| 33 | R | 607 | CHL | ND |
| 33 | R | 607 | CHL | NA |
| 33 | R | 607 | CHL | NC |
| 33 | R | 608 | CHL | ND |
| 33 | R | 608 | CHL | NA |
| 33 | R | 608 | CHL | NC |
| 33 | R | 609 | CHL | ND |
| 33 | R | 609 | CHL | NA |
| 33 | R | 609 | CHL | NC |
| 33 | S | 302 | CHL | ND |
| 33 | S | 302 | CHL | NA |
| 33 | S | 302 | CHL | NC |
| 33 | S | 306 | CHL | ND |
| 33 | S | 306 | CHL | NA |
| 33 | S | 306 | CHL | NC |
| 33 | S | 307 | CHL | ND |
| 33 | S | 307 | CHL | NA |
| 33 | S | 307 | CHL | NC |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 33 | S | 308 | CHL | ND |
| 33 | S | 308 | CHL | NA |
| 33 | S | 308 | CHL | NC |
| 33 | S | 309 | CHL | ND |
| 33 | S | 309 | CHL | NA |
| 33 | S | 309 | CHL | NC |
| 33 | S | 310 | CHL | ND |
| 33 | S | 310 | CHL | NA |
| 33 | S | 310 | CHL | NC |
| 33 | S | 321 | CHL | ND |
| 33 | S | 321 | CHL | NA |
| 33 | S | 321 | CHL | NC |
| 33 | T | 601 | CHL | ND |
| 33 | T | 601 | CHL | NA |
| 33 | T | 601 | CHL | NC |
| 33 | T | 604 | CHL | ND |
| 33 | T | 604 | CHL | NA |
| 33 | T | 604 | CHL | NC |
| 33 | T | 605 | CHL | ND |
| 33 | T | 605 | CHL | NA |
| 33 | T | 605 | CHL | NC |
| 33 | T | 606 | CHL | ND |
| 33 | T | 606 | CHL | NA |
| 33 | T | 606 | CHL | NC |
| 33 | T | 607 | CHL | ND |
| 33 | T | 607 | CHL | NA |
| 33 | T | 607 | CHL | NC |
| 33 | U | 305 | CHL | ND |
| 33 | U | 305 | CHL | NA |
| 33 | U | 305 | CHL | NC |
| 33 | U | 306 | CHL | ND |
| 33 | U | 306 | CHL | NA |
| 33 | U | 306 | CHL | NC |
| 33 | U | 307 | CHL | ND |
| 33 | U | 307 | CHL | NA |
| 33 | U | 307 | CHL | NC |
| 33 | U | 308 | CHL | ND |
| 33 | U | 308 | CHL | NA |
| 33 | U | 308 | CHL | NC |
| 33 | U | 309 | CHL | ND |
| 33 | U | 309 | CHL | NA |
| 33 | U | 309 | CHL | NC |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 33 | 1 | 601 | CHL | ND |
| 33 | 1 | 601 | CHL | NA |
| 33 | 1 | 601 | CHL | NC |
| 33 | 1 | 606 | CHL | ND |
| 33 | 1 | 606 | CHL | NA |
| 33 | 1 | 606 | CHL | NC |
| 33 | 3 | 306 | CHL | ND |
| 33 | 3 | 306 | CHL | NA |
| 33 | 3 | 306 | CHL | NC |
| 33 | 4 | 304 | CHL | ND |
| 33 | 4 | 304 | CHL | NA |
| 33 | 4 | 304 | CHL | NC |
| 33 | 4 | 305 | CHL | ND |
| 33 | 4 | 305 | CHL | NA |
| 33 | 4 | 305 | CHL | NC |
| 33 | 4 | 306 | CHL | ND |
| 33 | 4 | 306 | CHL | NA |
| 33 | 4 | 306 | CHL | NC |
| 33 | 4 | 314 | CHL | ND |
| 33 | 4 | 314 | CHL | NA |
| 33 | 4 | 314 | CHL | NC |
| 33 | 4 | 322 | CHL | ND |
| 33 | 4 | 322 | CHL | NA |
| 33 | 4 | 322 | CHL | NC |
| 33 | 5 | 307 | CHL | ND |
| 33 | 5 | 307 | CHL | NA |
| 33 | 5 | 307 | CHL | NC |
| 33 | 5 | 308 | CHL | ND |
| 33 | 5 | 308 | CHL | NA |
| 33 | 5 | 308 | CHL | NC |
| 33 | 5 | 317 | CHL | ND |
| 33 | 5 | 317 | CHL | NA |
| 33 | 5 | 317 | CHL | NC |
| 33 | 6 | 606 | CHL | ND |
| 33 | 6 | 606 | CHL | NA |
| 33 | 6 | 606 | CHL | NC |
| 33 | 6 | 607 | CHL | ND |
| 33 | 6 | 607 | CHL | NA |
| 33 | 6 | 607 | CHL | NC |
| 33 | 6 | 608 | CHL | ND |
| 33 | 6 | 608 | CHL | NA |
| 33 | 6 | 608 | CHL | NC |

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| Mol | Chain | Res | Type | Atom |
|-----|-------|-----|------|------|
| 33 | 6 | 617 | CHL | ND |
| 33 | 6 | 617 | CHL | NA |
| 33 | 6 | 617 | CHL | NC |
| 33 | 7 | 305 | CHL | ND |
| 33 | 7 | 305 | CHL | NA |
| 33 | 7 | 305 | CHL | NC |
| 33 | 8 | 307 | CHL | ND |
| 33 | 8 | 307 | CHL | NA |
| 33 | 8 | 307 | CHL | NC |
| 33 | 9 | 306 | CHL | ND |
| 33 | 9 | 306 | CHL | NA |
| 33 | 9 | 306 | CHL | NC |
| 33 | 9 | 307 | CHL | ND |
| 33 | 9 | 307 | CHL | NA |
| 33 | 9 | 307 | CHL | NC |
| 33 | a | 305 | CHL | ND |
| 33 | a | 305 | CHL | NA |
| 33 | a | 305 | CHL | NC |

All (3566) torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 801 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 804 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 804 | CLA | CAD-CBD-CGD-O2D |
| 25 | A | 806 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 806 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 808 | CLA | C2-C3-C5-C6 |
| 25 | A | 808 | CLA | C4-C3-C5-C6 |
| 25 | A | 809 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 809 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 810 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 815 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 815 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 815 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 815 | CLA | CAD-CBD-CGD-O2D |
| 25 | A | 816 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 816 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 818 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 818 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 819 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 819 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 820 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 820 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 823 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 823 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 823 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 824 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 824 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 825 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 825 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 828 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 828 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 828 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 828 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 828 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 831 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 831 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 831 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 831 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 831 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 834 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 834 | CLA | CAD-CBD-CGD-O2D |
| 25 | A | 836 | CLA | C2-C3-C5-C6 |
| 25 | A | 836 | CLA | C4-C3-C5-C6 |
| 25 | A | 838 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 838 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 839 | CLA | C2-C3-C5-C6 |
| 25 | A | 839 | CLA | C4-C3-C5-C6 |
| 25 | A | 853 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 853 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 801 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 801 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 801 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 802 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 803 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 803 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 804 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 807 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 807 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 809 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 809 | CLA | C11-C12-C13-C14 |
| 25 | B | 816 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 816 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | B | 817 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 817 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 818 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 818 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 818 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 821 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 825 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 825 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 826 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 826 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 826 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 826 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 828 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 828 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 832 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 832 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 832 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 833 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 833 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 833 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 833 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 834 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 834 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 834 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 837 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 849 | CLA | C1A-C2A-CAA-CBA |
| 25 | F | 802 | CLA | CBD-CGD-O2D-CED |
| 25 | G | 201 | CLA | CHA-CBD-CGD-O1D |
| 25 | G | 201 | CLA | CHA-CBD-CGD-O2D |
| 25 | H | 201 | CLA | C1A-C2A-CAA-CBA |
| 25 | H | 201 | CLA | C3A-C2A-CAA-CBA |
| 25 | H | 202 | CLA | CBD-CGD-O2D-CED |
| 25 | H | 202 | CLA | O1D-CGD-O2D-CED |
| 25 | H | 203 | CLA | C1A-C2A-CAA-CBA |
| 25 | J | 103 | CLA | C3A-C2A-CAA-CBA |
| 25 | J | 105 | CLA | CHA-CBD-CGD-O1D |
| 25 | J | 105 | CLA | CHA-CBD-CGD-O2D |
| 25 | J | 105 | CLA | CAD-CBD-CGD-O1D |
| 25 | K | 204 | CLA | CBD-CGD-O2D-CED |
| 25 | K | 205 | CLA | C2A-CAA-CBA-CGA |
| 25 | L | 202 | CLA | CHA-CBD-CGD-O1D |
| 25 | L | 202 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | L | 202 | CLA | C4-C3-C5-C6 |
| 25 | L | 206 | CLA | C1A-C2A-CAA-CBA |
| 25 | L | 206 | CLA | C3A-C2A-CAA-CBA |
| 25 | O | 201 | CLA | CHA-CBD-CGD-O1D |
| 25 | O | 201 | CLA | CHA-CBD-CGD-O2D |
| 25 | O | 201 | CLA | CAD-CBD-CGD-O1D |
| 25 | O | 201 | CLA | CBD-CGD-O2D-CED |
| 25 | P | 610 | CLA | CBD-CGD-O2D-CED |
| 25 | P | 611 | CLA | CBD-CGD-O2D-CED |
| 25 | P | 611 | CLA | O1D-CGD-O2D-CED |
| 25 | Q | 613 | CLA | CAD-CBD-CGD-O1D |
| 25 | Q | 613 | CLA | CAD-CBD-CGD-O2D |
| 25 | R | 610 | CLA | CBD-CGD-O2D-CED |
| 25 | R | 614 | CLA | CAD-CBD-CGD-O1D |
| 25 | R | 614 | CLA | CAD-CBD-CGD-O2D |
| 25 | S | 301 | CLA | CAD-CBD-CGD-O1D |
| 25 | S | 301 | CLA | CAD-CBD-CGD-O2D |
| 25 | S | 305 | CLA | C1A-C2A-CAA-CBA |
| 25 | S | 305 | CLA | C3A-C2A-CAA-CBA |
| 25 | S | 313 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 315 | CLA | CAD-CBD-CGD-O1D |
| 25 | S | 315 | CLA | CAD-CBD-CGD-O2D |
| 25 | T | 608 | CLA | CBD-CGD-O2D-CED |
| 25 | T | 609 | CLA | C1A-C2A-CAA-CBA |
| 25 | T | 609 | CLA | C3A-C2A-CAA-CBA |
| 25 | T | 612 | CLA | CAD-CBD-CGD-O1D |
| 25 | T | 612 | CLA | CAD-CBD-CGD-O2D |
| 25 | U | 313 | CLA | CAD-CBD-CGD-O1D |
| 25 | U | 313 | CLA | CAD-CBD-CGD-O2D |
| 25 | 1 | 602 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 603 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 603 | CLA | C4-C3-C5-C6 |
| 25 | 1 | 605 | CLA | C3-C5-C6-C7 |
| 25 | 1 | 608 | CLA | C3A-C2A-CAA-CBA |
| 25 | 1 | 610 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 612 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 614 | CLA | CHA-CBD-CGD-O1D |
| 25 | 1 | 614 | CLA | CHA-CBD-CGD-O2D |
| 25 | 2 | 302 | CLA | C3A-C2A-CAA-CBA |
| 25 | 2 | 302 | CLA | CHA-CBD-CGD-O1D |
| 25 | 2 | 302 | CLA | CHA-CBD-CGD-O2D |
| 25 | 2 | 302 | CLA | CAD-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 2 | 302 | CLA | CAD-CBD-CGD-O2D |
| 25 | 2 | 307 | CLA | C1A-C2A-CAA-CBA |
| 25 | 2 | 307 | CLA | C3A-C2A-CAA-CBA |
| 25 | 2 | 308 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 309 | CLA | C2-C3-C5-C6 |
| 25 | 2 | 309 | CLA | C4-C3-C5-C6 |
| 25 | 2 | 310 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 313 | CLA | C1A-C2A-CAA-CBA |
| 25 | 3 | 302 | CLA | CBD-CGD-O2D-CED |
| 25 | 3 | 303 | CLA | C1A-C2A-CAA-CBA |
| 25 | 3 | 303 | CLA | C3A-C2A-CAA-CBA |
| 25 | 3 | 305 | CLA | C11-C10-C8-C9 |
| 25 | 3 | 309 | CLA | CHA-CBD-CGD-O1D |
| 25 | 3 | 309 | CLA | CHA-CBD-CGD-O2D |
| 25 | 3 | 320 | CLA | C2-C3-C5-C6 |
| 25 | 3 | 320 | CLA | C4-C3-C5-C6 |
| 25 | 4 | 307 | CLA | C1A-C2A-CAA-CBA |
| 25 | 4 | 309 | CLA | CBD-CGD-O2D-CED |
| 25 | 4 | 309 | CLA | C2-C3-C5-C6 |
| 25 | 4 | 309 | CLA | C4-C3-C5-C6 |
| 25 | 4 | 311 | CLA | C1A-C2A-CAA-CBA |
| 25 | 4 | 311 | CLA | C3A-C2A-CAA-CBA |
| 25 | 4 | 311 | CLA | CHA-CBD-CGD-O1D |
| 25 | 4 | 311 | CLA | CHA-CBD-CGD-O2D |
| 25 | 5 | 302 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 309 | CLA | C1A-C2A-CAA-CBA |
| 25 | 5 | 309 | CLA | C3A-C2A-CAA-CBA |
| 25 | 5 | 312 | CLA | C3-C5-C6-C7 |
| 25 | 5 | 315 | CLA | CBD-CGD-O2D-CED |
| 25 | 5 | 316 | CLA | CHA-CBD-CGD-O1D |
| 25 | 5 | 316 | CLA | CHA-CBD-CGD-O2D |
| 25 | 5 | 319 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 319 | CLA | CHA-CBD-CGD-O1D |
| 25 | 5 | 319 | CLA | CHA-CBD-CGD-O2D |
| 25 | 5 | 324 | CLA | CHA-CBD-CGD-O1D |
| 25 | 5 | 324 | CLA | CHA-CBD-CGD-O2D |
| 25 | 5 | 324 | CLA | CAD-CBD-CGD-O1D |
| 25 | 5 | 324 | CLA | CAD-CBD-CGD-O2D |
| 25 | 6 | 601 | CLA | CHA-CBD-CGD-O1D |
| 25 | 6 | 601 | CLA | CHA-CBD-CGD-O2D |
| 25 | 6 | 601 | CLA | CAD-CBD-CGD-O1D |
| 25 | 6 | 603 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 6 | 609 | CLA | C1A-C2A-CAA-CBA |
| 25 | 6 | 610 | CLA | CBD-CGD-O2D-CED |
| 25 | 6 | 610 | CLA | C2-C3-C5-C6 |
| 25 | 6 | 610 | CLA | C4-C3-C5-C6 |
| 25 | 6 | 611 | CLA | C2-C3-C5-C6 |
| 25 | 6 | 611 | CLA | C4-C3-C5-C6 |
| 25 | 6 | 612 | CLA | C3-C5-C6-C7 |
| 25 | 6 | 615 | CLA | C1A-C2A-CAA-CBA |
| 25 | 6 | 615 | CLA | C3A-C2A-CAA-CBA |
| 25 | 6 | 616 | CLA | CHA-CBD-CGD-O1D |
| 25 | 6 | 616 | CLA | CHA-CBD-CGD-O2D |
| 25 | 6 | 620 | CLA | C1A-C2A-CAA-CBA |
| 25 | 6 | 620 | CLA | C3A-C2A-CAA-CBA |
| 25 | 6 | 620 | CLA | CHA-CBD-CGD-O1D |
| 25 | 6 | 620 | CLA | CHA-CBD-CGD-O2D |
| 25 | 6 | 620 | CLA | CAD-CBD-CGD-O1D |
| 25 | 6 | 620 | CLA | CAD-CBD-CGD-O2D |
| 25 | 6 | 623 | CLA | O1A-CGA-O2A-C1 |
| 25 | 6 | 623 | CLA | CHA-CBD-CGD-O1D |
| 25 | 6 | 623 | CLA | CHA-CBD-CGD-O2D |
| 25 | 7 | 304 | CLA | CHA-CBD-CGD-O1D |
| 25 | 7 | 304 | CLA | CHA-CBD-CGD-O2D |
| 25 | 7 | 304 | CLA | CAD-CBD-CGD-O1D |
| 25 | 7 | 307 | CLA | C1A-C2A-CAA-CBA |
| 25 | 7 | 310 | CLA | C3-C5-C6-C7 |
| 25 | 7 | 311 | CLA | CHA-CBD-CGD-O1D |
| 25 | 7 | 311 | CLA | CHA-CBD-CGD-O2D |
| 25 | 8 | 302 | CLA | CHA-CBD-CGD-O1D |
| 25 | 8 | 302 | CLA | CHA-CBD-CGD-O2D |
| 25 | 8 | 302 | CLA | CAD-CBD-CGD-O1D |
| 25 | 8 | 302 | CLA | CAD-CBD-CGD-O2D |
| 25 | 8 | 308 | CLA | C1A-C2A-CAA-CBA |
| 25 | 8 | 309 | CLA | C1A-C2A-CAA-CBA |
| 25 | 8 | 309 | CLA | C3A-C2A-CAA-CBA |
| 25 | 8 | 315 | CLA | CHA-CBD-CGD-O1D |
| 25 | 8 | 315 | CLA | CHA-CBD-CGD-O2D |
| 25 | 9 | 302 | CLA | CHA-CBD-CGD-O1D |
| 25 | 9 | 302 | CLA | CHA-CBD-CGD-O2D |
| 25 | 9 | 302 | CLA | CAD-CBD-CGD-O1D |
| 25 | 9 | 302 | CLA | CBD-CGD-O2D-CED |
| 25 | 9 | 303 | CLA | C2-C3-C5-C6 |
| 25 | 9 | 303 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 9 | 308 | CLA | C1A-C2A-CAA-CBA |
| 25 | 9 | 308 | CLA | C3A-C2A-CAA-CBA |
| 25 | a | 301 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 302 | CLA | C2-C3-C5-C6 |
| 25 | a | 302 | CLA | C4-C3-C5-C6 |
| 25 | a | 303 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 303 | CLA | O2A-C1-C2-C3 |
| 25 | a | 304 | CLA | C3-C5-C6-C7 |
| 25 | a | 306 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 307 | CLA | C3A-C2A-CAA-CBA |
| 25 | a | 309 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 311 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 313 | CLA | CHA-CBD-CGD-O1D |
| 25 | a | 313 | CLA | CHA-CBD-CGD-O2D |
| 27 | A | 843 | LHG | C3-O3-P-O5 |
| 27 | A | 843 | LHG | C4-O6-P-O4 |
| 27 | A | 844 | LHG | C3-O3-P-O5 |
| 27 | A | 844 | LHG | C3-O3-P-O6 |
| 27 | A | 844 | LHG | C4-O6-P-O3 |
| 27 | A | 844 | LHG | C4-O6-P-O4 |
| 27 | A | 844 | LHG | C4-O6-P-O5 |
| 27 | A | 852 | LHG | C3-O3-P-O4 |
| 27 | A | 852 | LHG | C3-O3-P-O5 |
| 27 | A | 852 | LHG | C3-O3-P-O6 |
| 27 | A | 852 | LHG | C4-O6-P-O4 |
| 27 | A | 852 | LHG | O9-C7-O7-C5 |
| 27 | A | 852 | LHG | C8-C7-O7-C5 |
| 27 | B | 847 | LHG | O1-C1-C2-C3 |
| 27 | B | 847 | LHG | C4-O6-P-O4 |
| 27 | B | 847 | LHG | O7-C5-C6-O8 |
| 27 | B | 847 | LHG | C8-C7-O7-C5 |
| 27 | P | 618 | LHG | C4-O6-P-O5 |
| 27 | P | 624 | LHG | C4-O6-P-O5 |
| 27 | Q | 617 | LHG | C4-O6-P-O5 |
| 27 | R | 618 | LHG | C4-O6-P-O5 |
| 27 | T | 617 | LHG | C4-O6-P-O5 |
| 27 | 1 | 618 | LHG | C24-C23-O8-C6 |
| 27 | 2 | 317 | LHG | C4-O6-P-O5 |
| 27 | 4 | 318 | LHG | C1-C2-C3-O3 |
| 27 | 4 | 318 | LHG | O2-C2-C3-O3 |
| 27 | 4 | 319 | LHG | C4-O6-P-O5 |
| 27 | 5 | 301 | LHG | C3-O3-P-O4 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 27 | 5 | 301 | LHG | C3-O3-P-O5 |
| 27 | 5 | 301 | LHG | C3-O3-P-O6 |
| 27 | 5 | 321 | LHG | C3-O3-P-O5 |
| 27 | 5 | 321 | LHG | C4-O6-P-O3 |
| 27 | 5 | 321 | LHG | C4-O6-P-O4 |
| 27 | 6 | 618 | LHG | C4-O6-P-O3 |
| 27 | 7 | 317 | LHG | C4-O6-P-O3 |
| 27 | 7 | 317 | LHG | C4-O6-P-O4 |
| 27 | 7 | 317 | LHG | C4-O6-P-O5 |
| 27 | 8 | 319 | LHG | C3-O3-P-O6 |
| 27 | a | 317 | LHG | C24-C23-O8-C6 |
| 28 | A | 845 | BCR | C1-C6-C7-C8 |
| 28 | A | 848 | BCR | C7-C8-C9-C10 |
| 28 | A | 848 | BCR | C7-C8-C9-C34 |
| 28 | A | 848 | BCR | C37-C22-C23-C24 |
| 28 | A | 849 | BCR | C7-C8-C9-C10 |
| 28 | A | 849 | BCR | C7-C8-C9-C34 |
| 28 | A | 854 | BCR | C21-C22-C23-C24 |
| 28 | A | 854 | BCR | C37-C22-C23-C24 |
| 28 | B | 840 | BCR | C7-C8-C9-C34 |
| 28 | B | 841 | BCR | C7-C8-C9-C10 |
| 28 | B | 841 | BCR | C7-C8-C9-C34 |
| 28 | B | 843 | BCR | C1-C6-C7-C8 |
| 28 | B | 844 | BCR | C21-C22-C23-C24 |
| 28 | B | 844 | BCR | C37-C22-C23-C24 |
| 28 | B | 845 | BCR | C21-C22-C23-C24 |
| 28 | B | 845 | BCR | C37-C22-C23-C24 |
| 28 | F | 801 | BCR | C17-C18-C19-C20 |
| 28 | F | 801 | BCR | C36-C18-C19-C20 |
| 28 | I | 201 | BCR | C17-C18-C19-C20 |
| 28 | I | 201 | BCR | C36-C18-C19-C20 |
| 28 | I | 201 | BCR | C21-C22-C23-C24 |
| 28 | I | 201 | BCR | C37-C22-C23-C24 |
| 28 | J | 101 | BCR | C23-C24-C25-C26 |
| 28 | J | 101 | BCR | C23-C24-C25-C30 |
| 28 | J | 106 | BCR | C7-C8-C9-C10 |
| 28 | J | 106 | BCR | C7-C8-C9-C34 |
| 28 | J | 106 | BCR | C17-C18-C19-C20 |
| 28 | J | 106 | BCR | C36-C18-C19-C20 |
| 28 | K | 206 | BCR | C19-C20-C21-C22 |
| 28 | L | 203 | BCR | C9-C10-C11-C12 |
| 28 | L | 204 | BCR | C36-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 28 | L | 207 | BCR | C36-C18-C19-C20 |
| 28 | L | 207 | BCR | C21-C22-C23-C24 |
| 28 | L | 207 | BCR | C37-C22-C23-C24 |
| 28 | L | 207 | BCR | C23-C24-C25-C26 |
| 28 | L | 207 | BCR | C23-C24-C25-C30 |
| 28 | O | 205 | BCR | C23-C24-C25-C26 |
| 28 | 3 | 317 | BCR | C21-C22-C23-C24 |
| 28 | 3 | 317 | BCR | C37-C22-C23-C24 |
| 28 | 3 | 318 | BCR | C5-C6-C7-C8 |
| 28 | 3 | 318 | BCR | C21-C22-C23-C24 |
| 28 | 3 | 318 | BCR | C37-C22-C23-C24 |
| 28 | 4 | 317 | BCR | C11-C12-C13-C14 |
| 28 | 4 | 317 | BCR | C11-C12-C13-C35 |
| 28 | 4 | 321 | BCR | C1-C6-C7-C8 |
| 28 | 4 | 321 | BCR | C5-C6-C7-C8 |
| 28 | 4 | 321 | BCR | C11-C12-C13-C14 |
| 28 | 4 | 321 | BCR | C11-C12-C13-C35 |
| 28 | 5 | 320 | BCR | C1-C6-C7-C8 |
| 28 | 5 | 320 | BCR | C23-C24-C25-C30 |
| 28 | 5 | 323 | BCR | C11-C12-C13-C14 |
| 28 | 5 | 323 | BCR | C11-C12-C13-C35 |
| 28 | 5 | 323 | BCR | C17-C18-C19-C20 |
| 28 | 5 | 323 | BCR | C36-C18-C19-C20 |
| 28 | 5 | 323 | BCR | C21-C22-C23-C24 |
| 28 | 5 | 323 | BCR | C37-C22-C23-C24 |
| 28 | 6 | 621 | BCR | C5-C6-C7-C8 |
| 28 | 7 | 316 | BCR | C23-C24-C25-C30 |
| 28 | 8 | 318 | BCR | C36-C18-C19-C20 |
| 30 | B | 846 | DGD | C2B-C1B-O2G-C2G |
| 30 | B | 846 | DGD | O6D-C1D-O3G-C3G |
| 31 | B | 850 | SQD | C2-C1-O6-C44 |
| 31 | B | 850 | SQD | O5-C1-O6-C44 |
| 32 | J | 102 | LMG | O7-C8-C9-O8 |
| 32 | J | 104 | LMG | C11-C10-O7-C8 |
| 32 | 1 | 619 | LMG | C11-C10-O7-C8 |
| 32 | 6 | 602 | LMG | C11-C10-O7-C8 |
| 32 | 7 | 318 | LMG | C11-C10-O7-C8 |
| 32 | 7 | 319 | LMG | O6-C1-O1-C7 |
| 33 | P | 601 | CHL | C3C-C2C-CMC-OMC |
| 33 | P | 606 | CHL | C3C-C2C-CMC-OMC |
| 33 | P | 607 | CHL | C3C-C2C-CMC-OMC |
| 33 | P | 608 | CHL | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | P | 609 | CHL | C1A-C2A-CAA-CBA |
| 33 | P | 609 | CHL | C3A-C2A-CAA-CBA |
| 33 | P | 609 | CHL | C11-C10-C8-C9 |
| 33 | P | 619 | CHL | C3C-C2C-CMC-OMC |
| 33 | P | 622 | CHL | C1C-C2C-CMC-OMC |
| 33 | P | 622 | CHL | C3C-C2C-CMC-OMC |
| 33 | Q | 601 | CHL | C3C-C2C-CMC-OMC |
| 33 | Q | 606 | CHL | C3C-C2C-CMC-OMC |
| 33 | Q | 607 | CHL | C1A-C2A-CAA-CBA |
| 33 | Q | 608 | CHL | C1A-C2A-CAA-CBA |
| 33 | Q | 608 | CHL | C3A-C2A-CAA-CBA |
| 33 | Q | 608 | CHL | C11-C10-C8-C9 |
| 33 | R | 601 | CHL | C3C-C2C-CMC-OMC |
| 33 | R | 606 | CHL | C3C-C2C-CMC-OMC |
| 33 | R | 607 | CHL | C3C-C2C-CMC-OMC |
| 33 | R | 608 | CHL | C1A-C2A-CAA-CBA |
| 33 | R | 609 | CHL | C1A-C2A-CAA-CBA |
| 33 | R | 609 | CHL | C3A-C2A-CAA-CBA |
| 33 | R | 609 | CHL | C11-C10-C8-C9 |
| 33 | S | 302 | CHL | C3A-C2A-CAA-CBA |
| 33 | S | 302 | CHL | C2A-CAA-CBA-CGA |
| 33 | S | 302 | CHL | C1C-C2C-CMC-OMC |
| 33 | S | 302 | CHL | C3C-C2C-CMC-OMC |
| 33 | S | 302 | CHL | C4-C3-C5-C6 |
| 33 | S | 306 | CHL | C3C-C2C-CMC-OMC |
| 33 | S | 307 | CHL | C1C-C2C-CMC-OMC |
| 33 | S | 307 | CHL | C3C-C2C-CMC-OMC |
| 33 | S | 308 | CHL | C2A-CAA-CBA-CGA |
| 33 | S | 308 | CHL | CHA-CBD-CGD-O1D |
| 33 | S | 308 | CHL | CHA-CBD-CGD-O2D |
| 33 | S | 310 | CHL | C3C-C2C-CMC-OMC |
| 33 | S | 321 | CHL | C3C-C2C-CMC-OMC |
| 33 | T | 601 | CHL | C3C-C2C-CMC-OMC |
| 33 | T | 605 | CHL | C3C-C2C-CMC-OMC |
| 33 | T | 606 | CHL | C1A-C2A-CAA-CBA |
| 33 | U | 305 | CHL | C1A-C2A-CAA-CBA |
| 33 | U | 305 | CHL | C3A-C2A-CAA-CBA |
| 33 | U | 306 | CHL | C3C-C2C-CMC-OMC |
| 33 | U | 307 | CHL | C3C-C2C-CMC-OMC |
| 33 | U | 307 | CHL | C3-C5-C6-C7 |
| 33 | U | 308 | CHL | C1A-C2A-CAA-CBA |
| 33 | 1 | 606 | CHL | C3C-C2C-CMC-OMC |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | 1 | 606 | CHL | CBD-CGD-O2D-CED |
| 33 | 3 | 306 | CHL | CBD-CGD-O2D-CED |
| 33 | 4 | 314 | CHL | C3C-C2C-CMC-OMC |
| 33 | 5 | 307 | CHL | C1C-C2C-CMC-OMC |
| 33 | 5 | 307 | CHL | C3C-C2C-CMC-OMC |
| 33 | 5 | 308 | CHL | C1A-C2A-CAA-CBA |
| 33 | 5 | 308 | CHL | C3A-C2A-CAA-CBA |
| 33 | 6 | 607 | CHL | C1C-C2C-CMC-OMC |
| 33 | 6 | 607 | CHL | C3C-C2C-CMC-OMC |
| 33 | 6 | 607 | CHL | CBD-CGD-O2D-CED |
| 33 | 6 | 608 | CHL | C1C-C2C-CMC-OMC |
| 33 | 6 | 608 | CHL | C3C-C2C-CMC-OMC |
| 33 | 6 | 608 | CHL | CBD-CGD-O2D-CED |
| 33 | 6 | 617 | CHL | C3C-C2C-CMC-OMC |
| 33 | 7 | 305 | CHL | C1C-C2C-CMC-OMC |
| 33 | 7 | 305 | CHL | C3C-C2C-CMC-OMC |
| 33 | 8 | 307 | CHL | C1C-C2C-CMC-OMC |
| 33 | 8 | 307 | CHL | C3C-C2C-CMC-OMC |
| 33 | 9 | 306 | CHL | C3C-C2C-CMC-OMC |
| 33 | 9 | 306 | CHL | CBD-CGD-O2D-CED |
| 33 | 9 | 307 | CHL | C3C-C2C-CMC-OMC |
| 33 | a | 305 | CHL | C3C-C2C-CMC-OMC |
| 33 | a | 305 | CHL | CBD-CGD-O2D-CED |
| 34 | P | 615 | LUT | C1-C6-C7-C8 |
| 34 | R | 616 | LUT | C1-C6-C7-C8 |
| 34 | S | 317 | LUT | C7-C8-C9-C19 |
| 34 | S | 317 | LUT | C31-C32-C33-C40 |
| 34 | U | 315 | LUT | C1-C6-C7-C8 |
| 34 | 1 | 616 | LUT | C1-C6-C7-C8 |
| 34 | 1 | 616 | LUT | C7-C8-C9-C10 |
| 34 | 1 | 616 | LUT | C7-C8-C9-C19 |
| 34 | 1 | 617 | LUT | C7-C8-C9-C10 |
| 34 | 1 | 617 | LUT | C7-C8-C9-C19 |
| 34 | 1 | 617 | LUT | C27-C28-C29-C30 |
| 34 | 1 | 617 | LUT | C27-C28-C29-C39 |
| 34 | 2 | 315 | LUT | C7-C8-C9-C10 |
| 34 | 2 | 315 | LUT | C7-C8-C9-C19 |
| 34 | 2 | 315 | LUT | C31-C32-C33-C34 |
| 34 | 2 | 315 | LUT | C31-C32-C33-C40 |
| 34 | 4 | 316 | LUT | C1-C6-C7-C8 |
| 34 | a | 315 | LUT | C1-C6-C7-C8 |
| 34 | a | 315 | LUT | C7-C8-C9-C10 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | a | 315 | LUT | C7-C8-C9-C19 |
| 34 | a | 316 | LUT | C1-C6-C7-C8 |
| 34 | a | 316 | LUT | C5-C6-C7-C8 |
| 34 | a | 316 | LUT | C7-C8-C9-C10 |
| 34 | a | 316 | LUT | C7-C8-C9-C19 |
| 34 | a | 316 | LUT | C27-C28-C29-C30 |
| 34 | a | 316 | LUT | C27-C28-C29-C39 |
| 35 | P | 616 | XAT | C7-C8-C9-C19 |
| 35 | P | 620 | XAT | C7-C8-C9-C19 |
| 35 | S | 318 | XAT | C7-C8-C9-C19 |
| 35 | S | 318 | XAT | C31-C32-C33-C34 |
| 35 | S | 318 | XAT | C31-C32-C33-C40 |
| 36 | P | 621 | NEX | C7-C8-C9-C19 |
| 36 | P | 621 | NEX | C11-C12-C13-C14 |
| 36 | P | 621 | NEX | C11-C12-C13-C20 |
| 36 | P | 621 | NEX | O24-C26-C27-C28 |
| 36 | P | 621 | NEX | C33-C34-C35-C15 |
| 25 | A | 801 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 802 | CLA | O1D-CGD-O2D-CED |
| 25 | P | 610 | CLA | O1D-CGD-O2D-CED |
| 25 | Q | 609 | CLA | O1D-CGD-O2D-CED |
| 25 | R | 610 | CLA | O1D-CGD-O2D-CED |
| 25 | T | 608 | CLA | O1D-CGD-O2D-CED |
| 25 | U | 310 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 303 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 315 | CLA | O1D-CGD-O2D-CED |
| 25 | 7 | 303 | CLA | O1D-CGD-O2D-CED |
| 25 | 8 | 306 | CLA | O1D-CGD-O2D-CED |
| 33 | P | 608 | CHL | O1D-CGD-O2D-CED |
| 33 | Q | 607 | CHL | O1D-CGD-O2D-CED |
| 33 | R | 608 | CHL | O1D-CGD-O2D-CED |
| 33 | T | 606 | CHL | O1D-CGD-O2D-CED |
| 33 | U | 308 | CHL | O1D-CGD-O2D-CED |
| 33 | 4 | 306 | CHL | O1D-CGD-O2D-CED |
| 25 | P | 612 | CLA | C8-C10-C11-C12 |
| 25 | R | 612 | CLA | C8-C10-C11-C12 |
| 33 | P | 609 | CHL | C15-C16-C17-C18 |
| 33 | Q | 608 | CHL | C15-C16-C17-C18 |
| 33 | R | 609 | CHL | C15-C16-C17-C18 |
| 25 | A | 828 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 853 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 809 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | F | 802 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 308 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 309 | CLA | O1D-CGD-O2D-CED |
| 33 | 1 | 606 | CHL | O1D-CGD-O2D-CED |
| 33 | a | 305 | CHL | O1D-CGD-O2D-CED |
| 25 | A | 811 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 834 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 842 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 853 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 809 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 812 | CLA | CBD-CGD-O2D-CED |
| 25 | H | 205 | CLA | CBD-CGD-O2D-CED |
| 25 | J | 103 | CLA | CBD-CGD-O2D-CED |
| 25 | J | 105 | CLA | CBD-CGD-O2D-CED |
| 25 | K | 201 | CLA | CBD-CGD-O2D-CED |
| 25 | Q | 609 | CLA | CBD-CGD-O2D-CED |
| 25 | R | 602 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 303 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 304 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 311 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 312 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 315 | CLA | CBD-CGD-O2D-CED |
| 25 | U | 310 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 607 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 302 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 303 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 306 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 309 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 311 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 313 | CLA | CBD-CGD-O2D-CED |
| 25 | 4 | 301 | CLA | CBD-CGD-O2D-CED |
| 25 | 4 | 307 | CLA | CBD-CGD-O2D-CED |
| 25 | 5 | 306 | CLA | CBD-CGD-O2D-CED |
| 25 | 6 | 614 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 303 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 304 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 306 | CLA | CBD-CGD-O2D-CED |
| 25 | 8 | 306 | CLA | CBD-CGD-O2D-CED |
| 25 | 8 | 308 | CLA | CBD-CGD-O2D-CED |
| 25 | 8 | 311 | CLA | CBD-CGD-O2D-CED |
| 25 | 9 | 304 | CLA | CBD-CGD-O2D-CED |
| 25 | 9 | 305 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | a | 303 | CLA | CBD-CGD-O2D-CED |
| 33 | P | 608 | CHL | CBD-CGD-O2D-CED |
| 33 | Q | 607 | CHL | CBD-CGD-O2D-CED |
| 33 | R | 608 | CHL | CBD-CGD-O2D-CED |
| 33 | S | 302 | CHL | CBD-CGD-O2D-CED |
| 33 | T | 606 | CHL | CBD-CGD-O2D-CED |
| 33 | U | 308 | CHL | CBD-CGD-O2D-CED |
| 33 | 4 | 306 | CHL | CBD-CGD-O2D-CED |
| 33 | 5 | 307 | CHL | CBD-CGD-O2D-CED |
| 33 | 5 | 308 | CHL | CBD-CGD-O2D-CED |
| 25 | A | 839 | CLA | O1A-CGA-O2A-C1 |
| 25 | Q | 613 | CLA | O1A-CGA-O2A-C1 |
| 27 | 1 | 618 | LHG | O10-C23-O8-C6 |
| 27 | a | 317 | LHG | O10-C23-O8-C6 |
| 32 | 1 | 619 | LMG | O10-C28-O8-C9 |
| 32 | 4 | 320 | LMG | O10-C28-O8-C9 |
| 32 | 7 | 319 | LMG | O10-C28-O8-C9 |
| 33 | P | 605 | CHL | O1A-CGA-O2A-C1 |
| 25 | A | 842 | CLA | C2C-C3C-CAC-CBC |
| 25 | A | 834 | CLA | O1D-CGD-O2D-CED |
| 25 | K | 204 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 302 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 311 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 306 | CLA | O1D-CGD-O2D-CED |
| 25 | 7 | 306 | CLA | O1D-CGD-O2D-CED |
| 33 | 6 | 608 | CHL | O1D-CGD-O2D-CED |
| 25 | H | 201 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 832 | CLA | O1D-CGD-O2D-CED |
| 25 | S | 303 | CLA | O1D-CGD-O2D-CED |
| 25 | S | 313 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 602 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 610 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 612 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 310 | CLA | O1D-CGD-O2D-CED |
| 25 | 9 | 302 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 301 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 306 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 311 | CLA | O1D-CGD-O2D-CED |
| 33 | 3 | 306 | CHL | O1D-CGD-O2D-CED |
| 25 | A | 839 | CLA | CBA-CGA-O2A-C1 |
| 25 | Q | 613 | CLA | CBA-CGA-O2A-C1 |
| 25 | 6 | 623 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 32 | 1 | 619 | LMG | C29-C28-O8-C9 |
| 32 | 4 | 320 | LMG | C29-C28-O8-C9 |
| 32 | 7 | 319 | LMG | C29-C28-O8-C9 |
| 25 | A | 812 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 835 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 826 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 827 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 838 | CLA | CBD-CGD-O2D-CED |
| 25 | H | 203 | CLA | CBD-CGD-O2D-CED |
| 25 | L | 209 | CLA | CBD-CGD-O2D-CED |
| 25 | P | 602 | CLA | CBD-CGD-O2D-CED |
| 25 | Q | 602 | CLA | CBD-CGD-O2D-CED |
| 25 | T | 602 | CLA | CBD-CGD-O2D-CED |
| 25 | U | 302 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 604 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 608 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 611 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 613 | CLA | CBD-CGD-O2D-CED |
| 25 | 5 | 314 | CLA | CBD-CGD-O2D-CED |
| 25 | 6 | 609 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 310 | CLA | CBD-CGD-O2D-CED |
| 25 | 8 | 305 | CLA | CBD-CGD-O2D-CED |
| 25 | 8 | 312 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 307 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 310 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 312 | CLA | CBD-CGD-O2D-CED |
| 33 | 7 | 305 | CHL | CBD-CGD-O2D-CED |
| 25 | A | 842 | CLA | C4C-C3C-CAC-CBC |
| 25 | A | 806 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 816 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 809 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 816 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 820 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 831 | CLA | O1A-CGA-O2A-C1 |
| 25 | P | 603 | CLA | O1A-CGA-O2A-C1 |
| 25 | Q | 603 | CLA | O1A-CGA-O2A-C1 |
| 25 | R | 603 | CLA | O1A-CGA-O2A-C1 |
| 25 | R | 614 | CLA | O1A-CGA-O2A-C1 |
| 25 | S | 312 | CLA | O1A-CGA-O2A-C1 |
| 25 | S | 320 | CLA | O1A-CGA-O2A-C1 |
| 25 | T | 609 | CLA | O1A-CGA-O2A-C1 |
| 25 | U | 303 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 1 | 610 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 309 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 810 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 801 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 821 | CLA | O1D-CGD-O2D-CED |
| 25 | O | 201 | CLA | O1D-CGD-O2D-CED |
| 25 | 6 | 610 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 309 | CLA | O1D-CGD-O2D-CED |
| 33 | 9 | 306 | CHL | O1D-CGD-O2D-CED |
| 25 | 4 | 309 | CLA | O1D-CGD-O2D-CED |
| 33 | 6 | 607 | CHL | O1D-CGD-O2D-CED |
| 25 | A | 829 | CLA | CBD-CGD-O2D-CED |
| 25 | K | 202 | CLA | CBD-CGD-O2D-CED |
| 25 | Q | 612 | CLA | CBD-CGD-O2D-CED |
| 25 | 6 | 623 | CLA | CBD-CGD-O2D-CED |
| 25 | 9 | 310 | CLA | CBD-CGD-O2D-CED |
| 25 | Q | 603 | CLA | C5-C6-C7-C8 |
| 25 | 3 | 302 | CLA | O1D-CGD-O2D-CED |
| 25 | 6 | 603 | CLA | O1D-CGD-O2D-CED |
| 33 | 5 | 308 | CHL | O1D-CGD-O2D-CED |
| 27 | B | 847 | LHG | O9-C7-O7-C5 |
| 30 | B | 846 | DGD | O1B-C1B-O2G-C2G |
| 32 | 1 | 619 | LMG | O9-C10-O7-C8 |
| 32 | 6 | 602 | LMG | O9-C10-O7-C8 |
| 32 | 7 | 318 | LMG | O9-C10-O7-C8 |
| 25 | A | 812 | CLA | C3-C5-C6-C7 |
| 25 | A | 830 | CLA | C3-C5-C6-C7 |
| 25 | A | 832 | CLA | C3-C5-C6-C7 |
| 25 | A | 840 | CLA | C3-C5-C6-C7 |
| 25 | A | 851 | CLA | C3-C5-C6-C7 |
| 25 | B | 805 | CLA | C3-C5-C6-C7 |
| 25 | B | 806 | CLA | C3-C5-C6-C7 |
| 25 | B | 807 | CLA | C3-C5-C6-C7 |
| 25 | B | 808 | CLA | C3-C5-C6-C7 |
| 25 | B | 813 | CLA | C3-C5-C6-C7 |
| 25 | B | 816 | CLA | C3-C5-C6-C7 |
| 25 | B | 820 | CLA | C3-C5-C6-C7 |
| 25 | B | 838 | CLA | C3-C5-C6-C7 |
| 25 | L | 201 | CLA | C3-C5-C6-C7 |
| 25 | Q | 612 | CLA | C3-C5-C6-C7 |
| 25 | S | 313 | CLA | C3-C5-C6-C7 |
| 25 | S | 314 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 3 | 305 | CLA | C3-C5-C6-C7 |
| 25 | 3 | 314 | CLA | C3-C5-C6-C7 |
| 25 | 7 | 311 | CLA | C3-C5-C6-C7 |
| 25 | 8 | 314 | CLA | C3-C5-C6-C7 |
| 25 | 9 | 303 | CLA | C3-C5-C6-C7 |
| 25 | A | 812 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 820 | CLA | CBA-CGA-O2A-C1 |
| 25 | K | 201 | CLA | CBA-CGA-O2A-C1 |
| 25 | P | 603 | CLA | CBA-CGA-O2A-C1 |
| 25 | Q | 603 | CLA | CBA-CGA-O2A-C1 |
| 25 | R | 603 | CLA | CBA-CGA-O2A-C1 |
| 25 | R | 614 | CLA | CBA-CGA-O2A-C1 |
| 25 | S | 312 | CLA | CBA-CGA-O2A-C1 |
| 25 | S | 320 | CLA | CBA-CGA-O2A-C1 |
| 25 | U | 303 | CLA | CBA-CGA-O2A-C1 |
| 25 | 2 | 312 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 303 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 607 | CLA | O1D-CGD-O2D-CED |
| 25 | 9 | 305 | CLA | O1D-CGD-O2D-CED |
| 33 | S | 302 | CHL | O1D-CGD-O2D-CED |
| 25 | 3 | 320 | CLA | CBD-CGD-O2D-CED |
| 25 | 5 | 303 | CLA | CBD-CGD-O2D-CED |
| 25 | 6 | 613 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 301 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 307 | CLA | CBD-CGD-O2D-CED |
| 33 | 4 | 305 | CHL | CBD-CGD-O2D-CED |
| 25 | H | 201 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 305 | CLA | CBA-CGA-O2A-C1 |
| 33 | 3 | 306 | CHL | C3-C5-C6-C7 |
| 33 | 6 | 607 | CHL | C3-C5-C6-C7 |
| 33 | 8 | 307 | CHL | C3-C5-C6-C7 |
| 25 | 6 | 609 | CLA | C2C-C3C-CAC-CBC |
| 25 | A | 802 | CLA | C4-C3-C5-C6 |
| 25 | A | 814 | CLA | C4-C3-C5-C6 |
| 25 | B | 816 | CLA | C4-C3-C5-C6 |
| 25 | B | 837 | CLA | C4-C3-C5-C6 |
| 25 | A | 802 | CLA | C2-C3-C5-C6 |
| 25 | L | 202 | CLA | C2-C3-C5-C6 |
| 33 | S | 302 | CHL | C2-C3-C5-C6 |
| 25 | A | 823 | CLA | CBD-CGD-O2D-CED |
| 25 | K | 205 | CLA | CBD-CGD-O2D-CED |
| 25 | Q | 604 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | T | 603 | CLA | CBD-CGD-O2D-CED |
| 25 | T | 611 | CLA | CBD-CGD-O2D-CED |
| 25 | U | 312 | CLA | CBD-CGD-O2D-CED |
| 25 | 3 | 313 | CLA | CBD-CGD-O2D-CED |
| 25 | 4 | 311 | CLA | CBD-CGD-O2D-CED |
| 25 | 9 | 309 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 809 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 834 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 851 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 809 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 822 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 825 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 832 | CLA | C2A-CAA-CBA-CGA |
| 25 | F | 802 | CLA | C2A-CAA-CBA-CGA |
| 25 | 3 | 305 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 314 | CLA | C2A-CAA-CBA-CGA |
| 33 | P | 605 | CHL | C2A-CAA-CBA-CGA |
| 33 | R | 605 | CHL | C2A-CAA-CBA-CGA |
| 33 | S | 306 | CHL | C2A-CAA-CBA-CGA |
| 33 | U | 305 | CHL | C2A-CAA-CBA-CGA |
| 33 | 3 | 306 | CHL | C2A-CAA-CBA-CGA |
| 33 | 8 | 307 | CHL | C2A-CAA-CBA-CGA |
| 25 | A | 828 | CLA | O1A-CGA-O2A-C1 |
| 33 | 5 | 307 | CHL | O1D-CGD-O2D-CED |
| 25 | A | 801 | CLA | C3-C5-C6-C7 |
| 25 | A | 853 | CLA | C3-C5-C6-C7 |
| 25 | P | 613 | CLA | C3-C5-C6-C7 |
| 25 | R | 613 | CLA | C3-C5-C6-C7 |
| 25 | T | 611 | CLA | C3-C5-C6-C7 |
| 25 | U | 312 | CLA | C3-C5-C6-C7 |
| 25 | 8 | 302 | CLA | C3-C5-C6-C7 |
| 25 | 9 | 301 | CLA | C3-C5-C6-C7 |
| 25 | 9 | 309 | CLA | C3-C5-C6-C7 |
| 25 | A | 806 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 809 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 816 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 818 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 836 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 809 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 816 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 820 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 829 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | B | 831 | CLA | CBA-CGA-O2A-C1 |
| 25 | J | 103 | CLA | CBA-CGA-O2A-C1 |
| 25 | T | 609 | CLA | CBA-CGA-O2A-C1 |
| 25 | T | 612 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 610 | CLA | CBA-CGA-O2A-C1 |
| 25 | 4 | 309 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 309 | CLA | CBA-CGA-O2A-C1 |
| 32 | H | 204 | LMG | C29-C28-O8-C9 |
| 33 | P | 605 | CHL | CBA-CGA-O2A-C1 |
| 33 | P | 622 | CHL | CBA-CGA-O2A-C1 |
| 33 | 7 | 305 | CHL | CBA-CGA-O2A-C1 |
| 25 | 6 | 609 | CLA | C4C-C3C-CAC-CBC |
| 25 | A | 811 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 306 | CLA | O1D-CGD-O2D-CED |
| 30 | B | 848 | DGD | C4D-C5D-C6D-O5D |
| 25 | R | 613 | CLA | CBD-CGD-O2D-CED |
| 25 | R | 614 | CLA | CBD-CGD-O2D-CED |
| 33 | 9 | 307 | CHL | CBD-CGD-O2D-CED |
| 25 | K | 201 | CLA | O1D-CGD-O2D-CED |
| 25 | S | 312 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 313 | CLA | O1D-CGD-O2D-CED |
| 25 | 4 | 301 | CLA | O1D-CGD-O2D-CED |
| 32 | J | 104 | LMG | O9-C10-O7-C8 |
| 32 | 4 | 320 | LMG | O9-C10-O7-C8 |
| 25 | A | 812 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 818 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 836 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 829 | CLA | O1A-CGA-O2A-C1 |
| 25 | J | 103 | CLA | O1A-CGA-O2A-C1 |
| 25 | K | 201 | CLA | O1A-CGA-O2A-C1 |
| 25 | 4 | 309 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 305 | CLA | O1A-CGA-O2A-C1 |
| 25 | H | 205 | CLA | O1D-CGD-O2D-CED |
| 25 | J | 105 | CLA | O1D-CGD-O2D-CED |
| 25 | S | 315 | CLA | O1D-CGD-O2D-CED |
| 28 | L | 203 | BCR | C13-C14-C15-C16 |
| 28 | O | 205 | BCR | C9-C10-C11-C12 |
| 28 | 5 | 320 | BCR | C19-C20-C21-C22 |
| 25 | A | 830 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 840 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 805 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 819 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | P | 604 | CLA | CBD-CGD-O2D-CED |
| 25 | P | 613 | CLA | CBD-CGD-O2D-CED |
| 25 | Q | 613 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 301 | CLA | CBD-CGD-O2D-CED |
| 25 | S | 314 | CLA | CBD-CGD-O2D-CED |
| 25 | T | 612 | CLA | CBD-CGD-O2D-CED |
| 25 | U | 304 | CLA | CBD-CGD-O2D-CED |
| 25 | U | 313 | CLA | CBD-CGD-O2D-CED |
| 25 | 4 | 308 | CLA | CBD-CGD-O2D-CED |
| 25 | 5 | 304 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 308 | CLA | CBD-CGD-O2D-CED |
| 25 | 9 | 303 | CLA | CBD-CGD-O2D-CED |
| 33 | 4 | 314 | CHL | CBD-CGD-O2D-CED |
| 33 | 6 | 606 | CHL | CBD-CGD-O2D-CED |
| 25 | A | 842 | CLA | O1D-CGD-O2D-CED |
| 25 | J | 103 | CLA | O1D-CGD-O2D-CED |
| 25 | S | 304 | CLA | O1D-CGD-O2D-CED |
| 25 | 8 | 308 | CLA | O1D-CGD-O2D-CED |
| 27 | 1 | 618 | LHG | O2-C2-C3-O3 |
| 27 | 2 | 317 | LHG | O2-C2-C3-O3 |
| 27 | a | 317 | LHG | O2-C2-C3-O3 |
| 25 | A | 804 | CLA | C3-C5-C6-C7 |
| 25 | A | 806 | CLA | C3-C5-C6-C7 |
| 25 | A | 807 | CLA | C3-C5-C6-C7 |
| 25 | A | 818 | CLA | C3-C5-C6-C7 |
| 25 | A | 837 | CLA | C3-C5-C6-C7 |
| 25 | B | 830 | CLA | C3-C5-C6-C7 |
| 25 | L | 202 | CLA | C3-C5-C6-C7 |
| 25 | 3 | 303 | CLA | C3-C5-C6-C7 |
| 25 | 6 | 611 | CLA | C3-C5-C6-C7 |
| 25 | 6 | 623 | CLA | C3-C5-C6-C7 |
| 25 | A | 828 | CLA | CBA-CGA-O2A-C1 |
| 33 | P | 601 | CHL | CBA-CGA-O2A-C1 |
| 33 | Q | 601 | CHL | CBA-CGA-O2A-C1 |
| 33 | R | 601 | CHL | CBA-CGA-O2A-C1 |
| 33 | S | 302 | CHL | CBA-CGA-O2A-C1 |
| 33 | T | 601 | CHL | CBA-CGA-O2A-C1 |
| 25 | A | 820 | CLA | O1A-CGA-O2A-C1 |
| 25 | 2 | 312 | CLA | O1A-CGA-O2A-C1 |
| 33 | P | 622 | CHL | O1A-CGA-O2A-C1 |
| 25 | 7 | 304 | CLA | O1D-CGD-O2D-CED |
| 25 | 9 | 304 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | R | 603 | CLA | C5-C6-C7-C8 |
| 25 | S | 320 | CLA | C5-C6-C7-C8 |
| 25 | U | 303 | CLA | C5-C6-C7-C8 |
| 32 | 4 | 320 | LMG | C11-C10-O7-C8 |
| 25 | 2 | 302 | CLA | CBA-CGA-O2A-C1 |
| 25 | 2 | 314 | CLA | CBA-CGA-O2A-C1 |
| 25 | 7 | 313 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 816 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 836 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 808 | CLA | CBD-CGD-O2D-CED |
| 25 | 4 | 303 | CLA | CBD-CGD-O2D-CED |
| 25 | 5 | 312 | CLA | CBD-CGD-O2D-CED |
| 33 | P | 601 | CHL | CBD-CGD-O2D-CED |
| 33 | P | 622 | CHL | CBD-CGD-O2D-CED |
| 33 | Q | 601 | CHL | CBD-CGD-O2D-CED |
| 33 | R | 601 | CHL | CBD-CGD-O2D-CED |
| 33 | S | 306 | CHL | CBD-CGD-O2D-CED |
| 33 | S | 310 | CHL | CBD-CGD-O2D-CED |
| 33 | T | 601 | CHL | CBD-CGD-O2D-CED |
| 25 | P | 603 | CLA | C5-C6-C7-C8 |
| 25 | a | 303 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 837 | CLA | C2C-C3C-CAC-CBC |
| 25 | R | 602 | CLA | O1D-CGD-O2D-CED |
| 25 | 3 | 312 | CLA | CBD-CGD-O2D-CED |
| 33 | 6 | 617 | CHL | CBD-CGD-O2D-CED |
| 25 | A | 802 | CLA | C3-C5-C6-C7 |
| 25 | A | 814 | CLA | C3-C5-C6-C7 |
| 25 | T | 612 | CLA | O1A-CGA-O2A-C1 |
| 32 | H | 204 | LMG | O10-C28-O8-C9 |
| 33 | P | 601 | CHL | O1A-CGA-O2A-C1 |
| 33 | Q | 601 | CHL | O1A-CGA-O2A-C1 |
| 33 | R | 601 | CHL | O1A-CGA-O2A-C1 |
| 33 | S | 302 | CHL | O1A-CGA-O2A-C1 |
| 33 | T | 601 | CHL | O1A-CGA-O2A-C1 |
| 33 | 7 | 305 | CHL | O1A-CGA-O2A-C1 |
| 25 | A | 818 | CLA | C4-C3-C5-C6 |
| 25 | A | 830 | CLA | C4-C3-C5-C6 |
| 25 | L | 201 | CLA | C4-C3-C5-C6 |
| 25 | 1 | 602 | CLA | C4-C3-C5-C6 |
| 25 | 2 | 305 | CLA | C4-C3-C5-C6 |
| 25 | a | 301 | CLA | C4-C3-C5-C6 |
| 33 | 6 | 607 | CHL | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 818 | CLA | C2-C3-C5-C6 |
| 25 | A | 830 | CLA | C2-C3-C5-C6 |
| 25 | B | 816 | CLA | C2-C3-C5-C6 |
| 25 | L | 201 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 602 | CLA | C2-C3-C5-C6 |
| 25 | 2 | 305 | CLA | C2-C3-C5-C6 |
| 25 | a | 301 | CLA | C2-C3-C5-C6 |
| 33 | 6 | 607 | CHL | C2-C3-C5-C6 |
| 25 | A | 814 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 823 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 839 | CLA | C2A-CAA-CBA-CGA |
| 25 | 3 | 320 | CLA | C2A-CAA-CBA-CGA |
| 33 | 4 | 305 | CHL | C2A-CAA-CBA-CGA |
| 33 | 4 | 306 | CHL | C2A-CAA-CBA-CGA |
| 25 | 4 | 307 | CLA | O1D-CGD-O2D-CED |
| 25 | 8 | 311 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 809 | CLA | O1A-CGA-O2A-C1 |
| 25 | 6 | 611 | CLA | CBA-CGA-O2A-C1 |
| 25 | L | 202 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 812 | CLA | O1D-CGD-O2D-CED |
| 25 | 6 | 614 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 819 | CLA | CBA-CGA-O2A-C1 |
| 25 | 3 | 310 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 835 | CLA | O1D-CGD-O2D-CED |
| 25 | Q | 602 | CLA | O1D-CGD-O2D-CED |
| 25 | S | 311 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 604 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 608 | CLA | O1D-CGD-O2D-CED |
| 33 | 7 | 305 | CHL | O1D-CGD-O2D-CED |
| 25 | P | 602 | CLA | O1D-CGD-O2D-CED |
| 25 | T | 602 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 613 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 314 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 307 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 312 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 822 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 314 | CLA | CBD-CGD-O2D-CED |
| 25 | 6 | 611 | CLA | O1A-CGA-O2A-C1 |
| 25 | 9 | 310 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 810 | CLA | C3-C5-C6-C7 |
| 25 | B | 827 | CLA | O1D-CGD-O2D-CED |
| 25 | H | 203 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 6 | 609 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 805 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 807 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 815 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 835 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 840 | CLA | CBA-CGA-O2A-C1 |
| 25 | Q | 611 | CLA | CBA-CGA-O2A-C1 |
| 25 | S | 304 | CLA | CBA-CGA-O2A-C1 |
| 25 | S | 313 | CLA | CBA-CGA-O2A-C1 |
| 25 | T | 610 | CLA | CBA-CGA-O2A-C1 |
| 25 | U | 311 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 603 | CLA | CBA-CGA-O2A-C1 |
| 25 | 2 | 304 | CLA | CBA-CGA-O2A-C1 |
| 25 | 2 | 307 | CLA | CBA-CGA-O2A-C1 |
| 25 | 2 | 311 | CLA | CBA-CGA-O2A-C1 |
| 25 | 3 | 305 | CLA | CBA-CGA-O2A-C1 |
| 25 | 4 | 310 | CLA | CBA-CGA-O2A-C1 |
| 25 | 5 | 311 | CLA | CBA-CGA-O2A-C1 |
| 25 | 6 | 612 | CLA | CBA-CGA-O2A-C1 |
| 25 | 8 | 313 | CLA | CBA-CGA-O2A-C1 |
| 25 | 9 | 301 | CLA | CBA-CGA-O2A-C1 |
| 25 | 9 | 310 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 302 | CLA | CBA-CGA-O2A-C1 |
| 33 | S | 306 | CHL | CBA-CGA-O2A-C1 |
| 33 | 8 | 307 | CHL | CBA-CGA-O2A-C1 |
| 25 | B | 802 | CLA | C10-C11-C12-C13 |
| 25 | 2 | 314 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 808 | CLA | C10-C11-C12-C13 |
| 25 | A | 836 | CLA | C13-C15-C16-C17 |
| 25 | R | 611 | CLA | C5-C6-C7-C8 |
| 25 | 3 | 311 | CLA | C5-C6-C7-C8 |
| 25 | A | 805 | CLA | O1A-CGA-O2A-C1 |
| 25 | 2 | 302 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 837 | CLA | C4C-C3C-CAC-CBC |
| 25 | A | 812 | CLA | C10-C11-C12-C13 |
| 25 | A | 820 | CLA | C13-C15-C16-C17 |
| 25 | A | 832 | CLA | C5-C6-C7-C8 |
| 25 | A | 838 | CLA | C15-C16-C17-C18 |
| 25 | 5 | 324 | CLA | C5-C6-C7-C8 |
| 26 | B | 839 | PQN | C20-C21-C22-C23 |
| 27 | 8 | 319 | LHG | O2-C2-C3-O3 |
| 25 | 2 | 305 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 4 | 310 | CLA | C3-C5-C6-C7 |
| 27 | 4 | 318 | LHG | O7-C5-C6-O8 |
| 27 | 6 | 618 | LHG | O7-C5-C6-O8 |
| 33 | S | 306 | CHL | O1A-CGA-O2A-C1 |
| 25 | A | 832 | CLA | C4-C3-C5-C6 |
| 25 | A | 814 | CLA | C2-C3-C5-C6 |
| 25 | B | 837 | CLA | C2-C3-C5-C6 |
| 25 | A | 806 | CLA | C11-C10-C8-C9 |
| 25 | A | 815 | CLA | C11-C10-C8-C9 |
| 25 | A | 825 | CLA | C6-C7-C8-C9 |
| 25 | A | 826 | CLA | C6-C7-C8-C9 |
| 25 | A | 836 | CLA | C14-C13-C15-C16 |
| 25 | A | 851 | CLA | C11-C12-C13-C14 |
| 25 | B | 810 | CLA | C11-C12-C13-C14 |
| 25 | P | 612 | CLA | C11-C10-C8-C9 |
| 25 | R | 612 | CLA | C11-C10-C8-C9 |
| 25 | S | 304 | CLA | C6-C7-C8-C9 |
| 25 | 1 | 609 | CLA | C6-C7-C8-C9 |
| 25 | 2 | 304 | CLA | C14-C13-C15-C16 |
| 25 | 3 | 308 | CLA | C14-C13-C15-C16 |
| 25 | 3 | 320 | CLA | C11-C12-C13-C14 |
| 25 | 5 | 303 | CLA | C11-C12-C13-C14 |
| 25 | 7 | 308 | CLA | C11-C10-C8-C9 |
| 25 | a | 308 | CLA | C6-C7-C8-C9 |
| 26 | A | 841 | PQN | C24-C23-C25-C26 |
| 25 | A | 812 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 838 | CLA | O1D-CGD-O2D-CED |
| 25 | U | 302 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 807 | CLA | C15-C16-C17-C18 |
| 25 | 6 | 603 | CLA | C15-C16-C17-C18 |
| 25 | A | 840 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 307 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 314 | CLA | C2A-CAA-CBA-CGA |
| 33 | a | 305 | CHL | C2A-CAA-CBA-CGA |
| 28 | A | 848 | BCR | C11-C12-C13-C35 |
| 28 | J | 106 | BCR | C37-C22-C23-C24 |
| 28 | K | 206 | BCR | C36-C18-C19-C20 |
| 28 | K | 206 | BCR | C37-C22-C23-C24 |
| 28 | L | 203 | BCR | C11-C12-C13-C35 |
| 28 | O | 204 | BCR | C37-C22-C23-C24 |
| 28 | 4 | 317 | BCR | C36-C18-C19-C20 |
| 28 | 5 | 320 | BCR | C11-C12-C13-C35 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 28 | 5 | 320 | BCR | C37-C22-C23-C24 |
| 34 | S | 316 | LUT | C11-C12-C13-C20 |
| 34 | 7 | 314 | LUT | C7-C8-C9-C19 |
| 35 | Q | 616 | XAT | C7-C8-C9-C19 |
| 35 | T | 615 | XAT | C7-C8-C9-C19 |
| 36 | U | 316 | NEX | C11-C12-C13-C20 |
| 28 | B | 840 | BCR | C7-C8-C9-C10 |
| 28 | J | 106 | BCR | C21-C22-C23-C24 |
| 28 | K | 206 | BCR | C17-C18-C19-C20 |
| 28 | K | 206 | BCR | C21-C22-C23-C24 |
| 28 | L | 203 | BCR | C11-C12-C13-C14 |
| 32 | 2 | 301 | LMG | O6-C5-C6-O5 |
| 27 | S | 319 | LHG | C7-C8-C9-C10 |
| 25 | A | 840 | CLA | O1A-CGA-O2A-C1 |
| 25 | 2 | 304 | CLA | O1A-CGA-O2A-C1 |
| 25 | 2 | 311 | CLA | O1A-CGA-O2A-C1 |
| 25 | 6 | 612 | CLA | O1A-CGA-O2A-C1 |
| 25 | S | 314 | CLA | C8-C10-C11-C12 |
| 26 | B | 839 | PQN | C15-C16-C17-C18 |
| 25 | 8 | 312 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 825 | CLA | CBD-CGD-O2D-CED |
| 25 | 2 | 305 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 802 | CLA | C15-C16-C17-C18 |
| 25 | A | 803 | CLA | C13-C15-C16-C17 |
| 25 | A | 807 | CLA | C8-C10-C11-C12 |
| 25 | A | 840 | CLA | C15-C16-C17-C18 |
| 25 | B | 804 | CLA | C15-C16-C17-C18 |
| 25 | B | 815 | CLA | C5-C6-C7-C8 |
| 25 | B | 827 | CLA | C5-C6-C7-C8 |
| 25 | B | 834 | CLA | C13-C15-C16-C17 |
| 25 | B | 834 | CLA | C15-C16-C17-C18 |
| 25 | S | 303 | CLA | C8-C10-C11-C12 |
| 25 | 3 | 302 | CLA | C10-C11-C12-C13 |
| 25 | 3 | 308 | CLA | C13-C15-C16-C17 |
| 30 | B | 848 | DGD | O6D-C5D-C6D-O5D |
| 25 | A | 827 | CLA | C8-C10-C11-C12 |
| 25 | A | 830 | CLA | C10-C11-C12-C13 |
| 25 | A | 830 | CLA | C13-C15-C16-C17 |
| 25 | B | 802 | CLA | C13-C15-C16-C17 |
| 25 | B | 804 | CLA | C13-C15-C16-C17 |
| 25 | B | 808 | CLA | C15-C16-C17-C18 |
| 25 | B | 849 | CLA | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | Q | 611 | CLA | C5-C6-C7-C8 |
| 25 | T | 609 | CLA | C8-C10-C11-C12 |
| 25 | T | 610 | CLA | C5-C6-C7-C8 |
| 25 | U | 311 | CLA | C5-C6-C7-C8 |
| 25 | 2 | 304 | CLA | C13-C15-C16-C17 |
| 25 | 3 | 308 | CLA | C10-C11-C12-C13 |
| 25 | 5 | 302 | CLA | C13-C15-C16-C17 |
| 25 | 6 | 605 | CLA | C15-C16-C17-C18 |
| 25 | 7 | 308 | CLA | C5-C6-C7-C8 |
| 25 | 9 | 303 | CLA | C5-C6-C7-C8 |
| 25 | a | 311 | CLA | C10-C11-C12-C13 |
| 25 | B | 826 | CLA | O1D-CGD-O2D-CED |
| 27 | B | 847 | LHG | O1-C1-C2-O2 |
| 27 | A | 843 | LHG | C7-C8-C9-C10 |
| 27 | 6 | 618 | LHG | C7-C8-C9-C10 |
| 27 | 7 | 317 | LHG | C23-C24-C25-C26 |
| 32 | 6 | 602 | LMG | C10-C11-C12-C13 |
| 25 | A | 819 | CLA | CBD-CGD-O2D-CED |
| 25 | 7 | 313 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 810 | CLA | C15-C16-C17-C18 |
| 25 | B | 830 | CLA | C10-C11-C12-C13 |
| 25 | 5 | 302 | CLA | C8-C10-C11-C12 |
| 25 | 7 | 301 | CLA | C13-C15-C16-C17 |
| 25 | B | 825 | CLA | C3-C5-C6-C7 |
| 25 | A | 801 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 811 | CLA | C15-C16-C17-C18 |
| 25 | A | 815 | CLA | C5-C6-C7-C8 |
| 25 | A | 830 | CLA | C8-C10-C11-C12 |
| 25 | A | 839 | CLA | C5-C6-C7-C8 |
| 25 | A | 851 | CLA | C13-C15-C16-C17 |
| 25 | B | 801 | CLA | C13-C15-C16-C17 |
| 25 | B | 831 | CLA | C5-C6-C7-C8 |
| 25 | 1 | 612 | CLA | C10-C11-C12-C13 |
| 25 | 7 | 311 | CLA | C5-C6-C7-C8 |
| 25 | 8 | 310 | CLA | C5-C6-C7-C8 |
| 25 | 8 | 313 | CLA | C15-C16-C17-C18 |
| 27 | 1 | 618 | LHG | C7-C8-C9-C10 |
| 27 | a | 317 | LHG | C7-C8-C9-C10 |
| 25 | K | 203 | CLA | CBD-CGD-O2D-CED |
| 25 | 4 | 310 | CLA | CBD-CGD-O2D-CED |
| 25 | 6 | 615 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 817 | CLA | C8-C10-C11-C12 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | B | 813 | CLA | C8-C10-C11-C12 |
| 30 | B | 848 | DGD | C4E-C5E-C6E-O5E |
| 25 | 7 | 313 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 810 | CLA | C4-C3-C5-C6 |
| 25 | A | 808 | CLA | C11-C12-C13-C15 |
| 25 | A | 812 | CLA | C6-C7-C8-C10 |
| 25 | A | 825 | CLA | C6-C7-C8-C10 |
| 25 | A | 839 | CLA | C6-C7-C8-C10 |
| 25 | B | 805 | CLA | C11-C10-C8-C7 |
| 25 | B | 836 | CLA | C6-C7-C8-C10 |
| 25 | R | 613 | CLA | C11-C12-C13-C15 |
| 25 | U | 312 | CLA | C11-C12-C13-C15 |
| 25 | 3 | 320 | CLA | C12-C13-C15-C16 |
| 25 | 5 | 313 | CLA | C6-C7-C8-C10 |
| 33 | P | 609 | CHL | C12-C13-C15-C16 |
| 33 | Q | 608 | CHL | C12-C13-C15-C16 |
| 33 | R | 609 | CHL | C12-C13-C15-C16 |
| 25 | A | 807 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 815 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 835 | CLA | O1A-CGA-O2A-C1 |
| 25 | Q | 611 | CLA | O1A-CGA-O2A-C1 |
| 25 | S | 304 | CLA | O1A-CGA-O2A-C1 |
| 25 | S | 313 | CLA | O1A-CGA-O2A-C1 |
| 25 | U | 311 | CLA | O1A-CGA-O2A-C1 |
| 25 | 4 | 310 | CLA | O1A-CGA-O2A-C1 |
| 25 | 5 | 311 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 313 | CLA | O1A-CGA-O2A-C1 |
| 25 | 9 | 301 | CLA | O1A-CGA-O2A-C1 |
| 33 | 8 | 307 | CHL | O1A-CGA-O2A-C1 |
| 28 | O | 205 | BCR | C13-C14-C15-C16 |
| 28 | 4 | 321 | BCR | C13-C14-C15-C16 |
| 34 | S | 317 | LUT | C33-C34-C35-C15 |
| 25 | B | 826 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 814 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 824 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 829 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 836 | CLA | C2A-CAA-CBA-CGA |
| 25 | S | 314 | CLA | C2A-CAA-CBA-CGA |
| 25 | 6 | 623 | CLA | C2A-CAA-CBA-CGA |
| 25 | 9 | 305 | CLA | C2A-CAA-CBA-CGA |
| 33 | P | 607 | CHL | C2A-CAA-CBA-CGA |
| 33 | P | 619 | CHL | C2A-CAA-CBA-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | R | 607 | CHL | C2A-CAA-CBA-CGA |
| 33 | S | 321 | CHL | C2A-CAA-CBA-CGA |
| 33 | 1 | 606 | CHL | C2A-CAA-CBA-CGA |
| 25 | K | 202 | CLA | O1D-CGD-O2D-CED |
| 25 | Q | 612 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 611 | CLA | O1D-CGD-O2D-CED |
| 25 | 7 | 310 | CLA | O1D-CGD-O2D-CED |
| 25 | 8 | 305 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 310 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 805 | CLA | C10-C11-C12-C13 |
| 25 | B | 811 | CLA | C10-C11-C12-C13 |
| 25 | B | 831 | CLA | C10-C11-C12-C13 |
| 25 | B | 836 | CLA | C15-C16-C17-C18 |
| 25 | T | 610 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 603 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 849 | CLA | CBD-CGD-O2D-CED |
| 32 | 2 | 301 | LMG | O6-C1-O1-C7 |
| 25 | B | 816 | CLA | C8-C10-C11-C12 |
| 25 | P | 612 | CLA | C10-C11-C12-C13 |
| 25 | R | 612 | CLA | C10-C11-C12-C13 |
| 25 | L | 209 | CLA | O1D-CGD-O2D-CED |
| 32 | J | 104 | LMG | C28-C29-C30-C31 |
| 25 | A | 822 | CLA | C3-C5-C6-C7 |
| 25 | B | 824 | CLA | C3-C5-C6-C7 |
| 25 | 4 | 311 | CLA | C3-C5-C6-C7 |
| 25 | A | 840 | CLA | C13-C15-C16-C17 |
| 25 | B | 809 | CLA | C13-C15-C16-C17 |
| 25 | 4 | 308 | CLA | C8-C10-C11-C12 |
| 25 | 7 | 308 | CLA | C10-C11-C12-C13 |
| 25 | a | 306 | CLA | C13-C15-C16-C17 |
| 25 | 2 | 307 | CLA | O1A-CGA-O2A-C1 |
| 25 | 3 | 305 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 302 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 309 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 836 | CLA | C15-C16-C17-C18 |
| 25 | S | 304 | CLA | C5-C6-C7-C8 |
| 25 | S | 304 | CLA | C15-C16-C17-C18 |
| 25 | S | 312 | CLA | C5-C6-C7-C8 |
| 25 | 2 | 313 | CLA | C5-C6-C7-C8 |
| 25 | 5 | 302 | CLA | C15-C16-C17-C18 |
| 25 | 5 | 324 | CLA | C8-C10-C11-C12 |
| 25 | 6 | 601 | CLA | C8-C10-C11-C12 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 6 | 601 | CLA | C10-C11-C12-C13 |
| 25 | A | 829 | CLA | O1D-CGD-O2D-CED |
| 25 | 6 | 613 | CLA | O1D-CGD-O2D-CED |
| 25 | 7 | 301 | CLA | O1D-CGD-O2D-CED |
| 25 | 9 | 310 | CLA | O1D-CGD-O2D-CED |
| 25 | R | 604 | CLA | CBD-CGD-O2D-CED |
| 32 | J | 107 | LMG | C11-C10-O7-C8 |
| 25 | 9 | 309 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 810 | CLA | C5-C6-C7-C8 |
| 25 | A | 816 | CLA | C13-C15-C16-C17 |
| 25 | A | 827 | CLA | C15-C16-C17-C18 |
| 25 | A | 838 | CLA | C8-C10-C11-C12 |
| 25 | B | 825 | CLA | C8-C10-C11-C12 |
| 25 | L | 201 | CLA | C8-C10-C11-C12 |
| 25 | S | 313 | CLA | C5-C6-C7-C8 |
| 25 | S | 313 | CLA | C10-C11-C12-C13 |
| 25 | 1 | 607 | CLA | C13-C15-C16-C17 |
| 25 | 3 | 320 | CLA | C8-C10-C11-C12 |
| 25 | 4 | 308 | CLA | C5-C6-C7-C8 |
| 25 | 5 | 302 | CLA | C10-C11-C12-C13 |
| 25 | 5 | 303 | CLA | C8-C10-C11-C12 |
| 25 | 8 | 302 | CLA | C8-C10-C11-C12 |
| 27 | A | 843 | LHG | C4-O6-P-O3 |
| 27 | B | 847 | LHG | C4-O6-P-O3 |
| 27 | P | 618 | LHG | C4-O6-P-O3 |
| 27 | P | 624 | LHG | C4-O6-P-O3 |
| 27 | Q | 617 | LHG | C4-O6-P-O3 |
| 27 | R | 618 | LHG | C4-O6-P-O3 |
| 27 | T | 617 | LHG | C4-O6-P-O3 |
| 27 | 2 | 317 | LHG | C4-O6-P-O3 |
| 27 | 6 | 618 | LHG | C3-O3-P-O6 |
| 27 | 7 | 317 | LHG | C3-O3-P-O6 |
| 25 | A | 820 | CLA | C3-C5-C6-C7 |
| 25 | B | 815 | CLA | C3-C5-C6-C7 |
| 25 | J | 103 | CLA | C3-C5-C6-C7 |
| 25 | L | 205 | CLA | CBA-CGA-O2A-C1 |
| 25 | 3 | 314 | CLA | CBA-CGA-O2A-C1 |
| 32 | 6 | 602 | LMG | C29-C28-O8-C9 |
| 33 | 5 | 307 | CHL | CBA-CGA-O2A-C1 |
| 25 | K | 205 | CLA | O1D-CGD-O2D-CED |
| 25 | 3 | 313 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 303 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | 4 | 305 | CHL | O1D-CGD-O2D-CED |
| 25 | 8 | 314 | CLA | CBD-CGD-O2D-CED |
| 25 | 3 | 308 | CLA | C8-C10-C11-C12 |
| 33 | 6 | 606 | CHL | C3-C5-C6-C7 |
| 31 | B | 850 | SQD | C24-C25-C26-C27 |
| 25 | 8 | 303 | CLA | C13-C15-C16-C17 |
| 27 | 1 | 618 | LHG | C1-C2-C3-O3 |
| 27 | 2 | 317 | LHG | C1-C2-C3-O3 |
| 27 | a | 317 | LHG | C1-C2-C3-O3 |
| 32 | J | 107 | LMG | O9-C10-O7-C8 |
| 25 | B | 821 | CLA | C4-C3-C5-C6 |
| 25 | 3 | 305 | CLA | C4-C3-C5-C6 |
| 25 | 3 | 311 | CLA | C4-C3-C5-C6 |
| 25 | B | 812 | CLA | C8-C10-C11-C12 |
| 25 | R | 613 | CLA | C8-C10-C11-C12 |
| 25 | U | 312 | CLA | C8-C10-C11-C12 |
| 25 | T | 610 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 818 | CLA | C2A-CAA-CBA-CGA |
| 25 | K | 204 | CLA | C2A-CAA-CBA-CGA |
| 25 | S | 303 | CLA | C2A-CAA-CBA-CGA |
| 25 | 1 | 609 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 303 | CLA | C2A-CAA-CBA-CGA |
| 25 | 8 | 303 | CLA | C2A-CAA-CBA-CGA |
| 25 | a | 303 | CLA | C2A-CAA-CBA-CGA |
| 25 | a | 308 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 811 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 822 | CLA | CBA-CGA-O2A-C1 |
| 25 | 5 | 303 | CLA | CBA-CGA-O2A-C1 |
| 25 | 7 | 310 | CLA | CBA-CGA-O2A-C1 |
| 25 | P | 611 | CLA | C2C-C3C-CAC-CBC |
| 25 | S | 314 | CLA | O1D-CGD-O2D-CED |
| 32 | J | 107 | LMG | C14-C15-C16-C17 |
| 25 | R | 614 | CLA | O1D-CGD-O2D-CED |
| 25 | T | 611 | CLA | O1D-CGD-O2D-CED |
| 25 | U | 312 | CLA | O1D-CGD-O2D-CED |
| 25 | 7 | 307 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 827 | CLA | C3-C5-C6-C7 |
| 25 | B | 831 | CLA | C3-C5-C6-C7 |
| 25 | 5 | 311 | CLA | C3-C5-C6-C7 |
| 27 | A | 852 | LHG | C14-C15-C16-C17 |
| 27 | 4 | 318 | LHG | C27-C28-C29-C30 |
| 32 | H | 204 | LMG | C17-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 32 | 1 | 619 | LMG | C16-C17-C18-C19 |
| 25 | A | 801 | CLA | O1A-CGA-O2A-C1 |
| 25 | Q | 613 | CLA | O1D-CGD-O2D-CED |
| 25 | R | 613 | CLA | O1D-CGD-O2D-CED |
| 25 | 6 | 623 | CLA | O1D-CGD-O2D-CED |
| 33 | 9 | 307 | CHL | O1D-CGD-O2D-CED |
| 25 | B | 814 | CLA | C6-C7-C8-C10 |
| 25 | P | 610 | CLA | C11-C12-C13-C14 |
| 25 | R | 613 | CLA | C16-C17-C18-C19 |
| 25 | 2 | 309 | CLA | C11-C12-C13-C15 |
| 25 | 3 | 303 | CLA | CBA-CGA-O2A-C1 |
| 27 | 8 | 319 | LHG | C16-C17-C18-C19 |
| 27 | 8 | 319 | LHG | C32-C33-C34-C35 |
| 32 | 4 | 320 | LMG | C16-C17-C18-C19 |
| 25 | T | 603 | CLA | O1D-CGD-O2D-CED |
| 25 | T | 612 | CLA | O1D-CGD-O2D-CED |
| 25 | 3 | 320 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 610 | CLA | C5-C6-C7-C8 |
| 25 | 6 | 623 | CLA | C5-C6-C7-C8 |
| 25 | 6 | 623 | CLA | C10-C11-C12-C13 |
| 25 | a | 309 | CLA | C5-C6-C7-C8 |
| 27 | B | 847 | LHG | C24-C25-C26-C27 |
| 27 | R | 618 | LHG | C32-C33-C34-C35 |
| 27 | 2 | 317 | LHG | C25-C26-C27-C28 |
| 27 | 4 | 318 | LHG | C25-C26-C27-C28 |
| 25 | Q | 604 | CLA | O1D-CGD-O2D-CED |
| 27 | 6 | 618 | LHG | C16-C17-C18-C19 |
| 30 | B | 848 | DGD | C5A-C6A-C7A-C8A |
| 25 | A | 822 | CLA | C15-C16-C17-C18 |
| 25 | K | 203 | CLA | CBA-CGA-O2A-C1 |
| 27 | A | 844 | LHG | O2-C2-C3-O3 |
| 27 | A | 843 | LHG | C14-C15-C16-C17 |
| 25 | P | 613 | CLA | O1D-CGD-O2D-CED |
| 25 | S | 301 | CLA | O1D-CGD-O2D-CED |
| 25 | U | 313 | CLA | O1D-CGD-O2D-CED |
| 33 | 4 | 314 | CHL | O1D-CGD-O2D-CED |
| 33 | 6 | 606 | CHL | O1D-CGD-O2D-CED |
| 32 | 2 | 301 | LMG | C2-C1-O1-C7 |
| 32 | 7 | 318 | LMG | C2-C1-O1-C7 |
| 27 | P | 618 | LHG | C32-C33-C34-C35 |
| 27 | Q | 617 | LHG | C32-C33-C34-C35 |
| 32 | J | 107 | LMG | C13-C14-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 1 | 604 | CLA | C5-C6-C7-C8 |
| 25 | 2 | 305 | CLA | O1A-CGA-O2A-C1 |
| 25 | 2 | 309 | CLA | C11-C12-C13-C14 |
| 25 | U | 304 | CLA | O1D-CGD-O2D-CED |
| 25 | 4 | 311 | CLA | O1D-CGD-O2D-CED |
| 25 | 6 | 613 | CLA | C4-C3-C5-C6 |
| 33 | P | 609 | CHL | C4-C3-C5-C6 |
| 33 | Q | 608 | CHL | C4-C3-C5-C6 |
| 33 | R | 609 | CHL | C4-C3-C5-C6 |
| 27 | P | 624 | LHG | C32-C33-C34-C35 |
| 27 | T | 617 | LHG | C32-C33-C34-C35 |
| 27 | 5 | 301 | LHG | C15-C16-C17-C18 |
| 25 | 3 | 305 | CLA | C2-C3-C5-C6 |
| 25 | 3 | 311 | CLA | C2-C3-C5-C6 |
| 25 | A | 814 | CLA | C11-C10-C8-C9 |
| 25 | A | 825 | CLA | C14-C13-C15-C16 |
| 25 | A | 839 | CLA | C6-C7-C8-C9 |
| 25 | B | 805 | CLA | C11-C10-C8-C9 |
| 25 | B | 822 | CLA | C11-C10-C8-C9 |
| 25 | B | 836 | CLA | C6-C7-C8-C9 |
| 25 | T | 608 | CLA | C14-C13-C15-C16 |
| 25 | 1 | 609 | CLA | C11-C10-C8-C9 |
| 25 | 2 | 309 | CLA | C11-C10-C8-C9 |
| 25 | a | 308 | CLA | C11-C10-C8-C9 |
| 25 | A | 823 | CLA | O1D-CGD-O2D-CED |
| 25 | P | 604 | CLA | O1D-CGD-O2D-CED |
| 32 | J | 104 | LMG | C10-C11-C12-C13 |
| 27 | 8 | 319 | LHG | C10-C11-C12-C13 |
| 25 | B | 807 | CLA | C13-C15-C16-C17 |
| 25 | Q | 612 | CLA | C8-C10-C11-C12 |
| 25 | T | 611 | CLA | C8-C10-C11-C12 |
| 25 | 2 | 303 | CLA | C5-C6-C7-C8 |
| 25 | 3 | 305 | CLA | C10-C11-C12-C13 |
| 25 | A | 842 | CLA | C2A-CAA-CBA-CGA |
| 25 | 3 | 311 | CLA | C2A-CAA-CBA-CGA |
| 25 | 4 | 303 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 324 | CLA | C2A-CAA-CBA-CGA |
| 33 | U | 307 | CHL | C2A-CAA-CBA-CGA |
| 25 | B | 826 | CLA | O1A-CGA-O2A-C1 |
| 32 | 6 | 602 | LMG | O10-C28-O8-C9 |
| 28 | B | 842 | BCR | C7-C8-C9-C34 |
| 28 | B | 851 | BCR | C36-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 28 | F | 801 | BCR | C37-C22-C23-C24 |
| 28 | L | 207 | BCR | C7-C8-C9-C34 |
| 28 | 6 | 621 | BCR | C7-C8-C9-C34 |
| 27 | 5 | 321 | LHG | C9-C10-C11-C12 |
| 32 | H | 204 | LMG | C29-C30-C31-C32 |
| 27 | 4 | 318 | LHG | O1-C1-C2-C3 |
| 27 | 5 | 301 | LHG | O1-C1-C2-C3 |
| 27 | 6 | 618 | LHG | O1-C1-C2-C3 |
| 28 | B | 851 | BCR | C17-C18-C19-C20 |
| 28 | F | 801 | BCR | C21-C22-C23-C24 |
| 28 | L | 207 | BCR | C7-C8-C9-C10 |
| 28 | O | 204 | BCR | C21-C22-C23-C24 |
| 28 | 4 | 317 | BCR | C7-C8-C9-C10 |
| 28 | 5 | 320 | BCR | C21-C22-C23-C24 |
| 28 | 6 | 621 | BCR | C7-C8-C9-C10 |
| 34 | S | 317 | LUT | C7-C8-C9-C10 |
| 25 | L | 202 | CLA | C5-C6-C7-C8 |
| 25 | P | 613 | CLA | C8-C10-C11-C12 |
| 27 | A | 843 | LHG | C28-C29-C30-C31 |
| 27 | 2 | 317 | LHG | C27-C28-C29-C30 |
| 31 | B | 850 | SQD | C13-C14-C15-C16 |
| 27 | 4 | 318 | LHG | C7-C8-C9-C10 |
| 27 | 2 | 317 | LHG | C16-C17-C18-C19 |
| 25 | L | 205 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 819 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 801 | CLA | C16-C17-C18-C19 |
| 25 | P | 610 | CLA | C11-C12-C13-C15 |
| 25 | P | 612 | CLA | C11-C12-C13-C15 |
| 25 | R | 612 | CLA | C11-C12-C13-C15 |
| 25 | 3 | 311 | CLA | C6-C7-C8-C9 |
| 25 | B | 818 | CLA | C5-C6-C7-C8 |
| 25 | 9 | 301 | CLA | C5-C6-C7-C8 |
| 25 | a | 303 | CLA | C5-C6-C7-C8 |
| 27 | A | 852 | LHG | C25-C26-C27-C28 |
| 27 | 4 | 318 | LHG | C13-C14-C15-C16 |
| 32 | 6 | 602 | LMG | C14-C15-C16-C17 |
| 25 | A | 807 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 840 | CLA | O1D-CGD-O2D-CED |
| 25 | 4 | 308 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 304 | CLA | O1D-CGD-O2D-CED |
| 27 | 5 | 301 | LHG | C28-C29-C30-C31 |
| 32 | J | 102 | LMG | C12-C13-C14-C15 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 27 | B | 847 | LHG | C23-C24-C25-C26 |
| 30 | B | 848 | DGD | C1A-C2A-C3A-C4A |
| 25 | A | 810 | CLA | C15-C16-C17-C18 |
| 25 | B | 815 | CLA | C8-C10-C11-C12 |
| 25 | R | 610 | CLA | C10-C11-C12-C13 |
| 25 | 7 | 301 | CLA | C15-C16-C17-C18 |
| 25 | 3 | 314 | CLA | O1A-CGA-O2A-C1 |
| 30 | B | 848 | DGD | C7B-C8B-C9B-CAB |
| 32 | J | 107 | LMG | C16-C17-C18-C19 |
| 25 | 7 | 303 | CLA | C3-C5-C6-C7 |
| 25 | R | 611 | CLA | CBA-CGA-O2A-C1 |
| 25 | 8 | 303 | CLA | CBA-CGA-O2A-C1 |
| 27 | A | 843 | LHG | C27-C28-C29-C30 |
| 32 | J | 107 | LMG | C34-C35-C36-C37 |
| 25 | A | 830 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 803 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 804 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 807 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 832 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 811 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 822 | CLA | C3A-C2A-CAA-CBA |
| 25 | K | 204 | CLA | C3A-C2A-CAA-CBA |
| 25 | R | 611 | CLA | C3A-C2A-CAA-CBA |
| 25 | 1 | 611 | CLA | C3A-C2A-CAA-CBA |
| 25 | 3 | 313 | CLA | C3A-C2A-CAA-CBA |
| 25 | 4 | 307 | CLA | C3A-C2A-CAA-CBA |
| 25 | 5 | 302 | CLA | C3A-C2A-CAA-CBA |
| 25 | 6 | 609 | CLA | C3A-C2A-CAA-CBA |
| 25 | 8 | 308 | CLA | C3A-C2A-CAA-CBA |
| 25 | a | 310 | CLA | C3A-C2A-CAA-CBA |
| 33 | P | 605 | CHL | C3A-C2A-CAA-CBA |
| 33 | P | 607 | CHL | C3A-C2A-CAA-CBA |
| 33 | P | 619 | CHL | C3A-C2A-CAA-CBA |
| 33 | R | 607 | CHL | C3A-C2A-CAA-CBA |
| 33 | S | 321 | CHL | C3A-C2A-CAA-CBA |
| 33 | U | 307 | CHL | C3A-C2A-CAA-CBA |
| 33 | 5 | 307 | CHL | C3A-C2A-CAA-CBA |
| 25 | P | 610 | CLA | C10-C11-C12-C13 |
| 25 | R | 610 | CLA | C15-C16-C17-C18 |
| 32 | 6 | 602 | LMG | C11-C12-C13-C14 |
| 25 | B | 805 | CLA | O1D-CGD-O2D-CED |
| 33 | 5 | 307 | CHL | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 3 | 310 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 815 | CLA | C11-C12-C13-C15 |
| 25 | R | 613 | CLA | C16-C17-C18-C20 |
| 25 | A | 838 | CLA | C2C-C3C-CAC-CBC |
| 27 | A | 843 | LHG | C9-C10-C11-C12 |
| 27 | A | 844 | LHG | C11-C10-C9-C8 |
| 32 | 1 | 619 | LMG | C7-C8-C9-O8 |
| 25 | A | 839 | CLA | CBD-CGD-O2D-CED |
| 32 | H | 204 | LMG | C15-C16-C17-C18 |
| 25 | B | 808 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 303 | CLA | O1A-CGA-O2A-C1 |
| 25 | 7 | 301 | CLA | C8-C10-C11-C12 |
| 25 | 7 | 311 | CLA | C8-C10-C11-C12 |
| 25 | A | 825 | CLA | C4-C3-C5-C6 |
| 25 | B | 825 | CLA | C4-C3-C5-C6 |
| 25 | P | 612 | CLA | C4-C3-C5-C6 |
| 25 | Q | 611 | CLA | C4-C3-C5-C6 |
| 25 | R | 612 | CLA | C4-C3-C5-C6 |
| 25 | T | 610 | CLA | C4-C3-C5-C6 |
| 25 | U | 311 | CLA | C4-C3-C5-C6 |
| 25 | 3 | 302 | CLA | C4-C3-C5-C6 |
| 25 | 4 | 311 | CLA | C4-C3-C5-C6 |
| 33 | 4 | 322 | CHL | C4-C3-C5-C6 |
| 25 | A | 825 | CLA | C2-C3-C5-C6 |
| 25 | A | 832 | CLA | C2-C3-C5-C6 |
| 25 | A | 838 | CLA | C2-C3-C5-C6 |
| 25 | B | 807 | CLA | C2-C3-C5-C6 |
| 25 | Q | 611 | CLA | C2-C3-C5-C6 |
| 25 | U | 311 | CLA | C2-C3-C5-C6 |
| 25 | 4 | 311 | CLA | C2-C3-C5-C6 |
| 25 | 6 | 613 | CLA | C2-C3-C5-C6 |
| 33 | 1 | 601 | CHL | C2-C3-C5-C6 |
| 33 | 4 | 322 | CHL | C2-C3-C5-C6 |
| 25 | P | 612 | CLA | O1A-CGA-O2A-C1 |
| 25 | R | 612 | CLA | O1A-CGA-O2A-C1 |
| 25 | 7 | 310 | CLA | O1A-CGA-O2A-C1 |
| 25 | 2 | 312 | CLA | C16-C17-C18-C19 |
| 25 | K | 203 | CLA | C2C-C3C-CAC-CBC |
| 27 | A | 843 | LHG | O2-C2-C3-O3 |
| 25 | R | 603 | CLA | C15-C16-C17-C18 |
| 25 | A | 809 | CLA | C3-C5-C6-C7 |
| 25 | B | 818 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 811 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 822 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 826 | CLA | CBD-CGD-O2D-CED |
| 27 | 6 | 618 | LHG | C1-C2-C3-O3 |
| 25 | A | 806 | CLA | C2-C1-O2A-CGA |
| 25 | A | 828 | CLA | C2-C1-O2A-CGA |
| 25 | B | 831 | CLA | C2-C1-O2A-CGA |
| 27 | 5 | 301 | LHG | C29-C30-C31-C32 |
| 30 | B | 846 | DGD | C3B-C4B-C5B-C6B |
| 25 | A | 808 | CLA | C13-C15-C16-C17 |
| 25 | A | 825 | CLA | C10-C11-C12-C13 |
| 25 | B | 805 | CLA | C15-C16-C17-C18 |
| 25 | L | 205 | CLA | C8-C10-C11-C12 |
| 25 | S | 303 | CLA | C10-C11-C12-C13 |
| 25 | S | 320 | CLA | C15-C16-C17-C18 |
| 25 | T | 608 | CLA | C10-C11-C12-C13 |
| 25 | R | 611 | CLA | O1A-CGA-O2A-C1 |
| 25 | 3 | 303 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 303 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 836 | CLA | C3-C5-C6-C7 |
| 25 | P | 612 | CLA | C3-C5-C6-C7 |
| 25 | R | 612 | CLA | C3-C5-C6-C7 |
| 28 | A | 845 | BCR | C5-C6-C7-C8 |
| 28 | A | 847 | BCR | C1-C6-C7-C8 |
| 28 | A | 847 | BCR | C5-C6-C7-C8 |
| 28 | B | 841 | BCR | C5-C6-C7-C8 |
| 28 | J | 101 | BCR | C1-C6-C7-C8 |
| 28 | J | 101 | BCR | C5-C6-C7-C8 |
| 28 | L | 204 | BCR | C1-C6-C7-C8 |
| 28 | L | 204 | BCR | C5-C6-C7-C8 |
| 28 | O | 205 | BCR | C23-C24-C25-C30 |
| 28 | 3 | 317 | BCR | C23-C24-C25-C26 |
| 28 | 3 | 317 | BCR | C23-C24-C25-C30 |
| 28 | 3 | 318 | BCR | C1-C6-C7-C8 |
| 28 | 5 | 320 | BCR | C5-C6-C7-C8 |
| 28 | 5 | 320 | BCR | C23-C24-C25-C26 |
| 28 | 5 | 323 | BCR | C23-C24-C25-C26 |
| 28 | 5 | 323 | BCR | C23-C24-C25-C30 |
| 28 | 6 | 621 | BCR | C1-C6-C7-C8 |
| 28 | 6 | 621 | BCR | C23-C24-C25-C26 |
| 28 | 6 | 621 | BCR | C23-C24-C25-C30 |
| 28 | 7 | 316 | BCR | C23-C24-C25-C26 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 28 | 8 | 301 | BCR | C1-C6-C7-C8 |
| 28 | 8 | 301 | BCR | C5-C6-C7-C8 |
| 28 | 8 | 318 | BCR | C1-C6-C7-C8 |
| 28 | 8 | 318 | BCR | C5-C6-C7-C8 |
| 34 | Q | 615 | LUT | C1-C6-C7-C8 |
| 34 | T | 614 | LUT | C1-C6-C7-C8 |
| 34 | 1 | 616 | LUT | C5-C6-C7-C8 |
| 34 | 1 | 617 | LUT | C1-C6-C7-C8 |
| 34 | 1 | 617 | LUT | C5-C6-C7-C8 |
| 34 | 4 | 316 | LUT | C5-C6-C7-C8 |
| 34 | 7 | 315 | LUT | C1-C6-C7-C8 |
| 34 | 7 | 315 | LUT | C5-C6-C7-C8 |
| 34 | a | 314 | LUT | C1-C6-C7-C8 |
| 34 | a | 315 | LUT | C5-C6-C7-C8 |
| 32 | J | 102 | LMG | O6-C5-C6-O5 |
| 25 | B | 819 | CLA | O1D-CGD-O2D-CED |
| 25 | 3 | 311 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 812 | CLA | C8-C10-C11-C12 |
| 25 | B | 806 | CLA | C13-C15-C16-C17 |
| 25 | B | 807 | CLA | C15-C16-C17-C18 |
| 25 | U | 310 | CLA | C10-C11-C12-C13 |
| 25 | 2 | 304 | CLA | C5-C6-C7-C8 |
| 27 | 6 | 618 | LHG | C8-C7-O7-C5 |
| 27 | 8 | 319 | LHG | C31-C32-C33-C34 |
| 25 | H | 201 | CLA | CBD-CGD-O2D-CED |
| 27 | Q | 617 | LHG | C7-C8-C9-C10 |
| 25 | A | 812 | CLA | C13-C15-C16-C17 |
| 25 | 7 | 308 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 838 | CLA | C4-C3-C5-C6 |
| 25 | B | 801 | CLA | C4-C3-C5-C6 |
| 25 | B | 807 | CLA | C4-C3-C5-C6 |
| 25 | 1 | 607 | CLA | C4-C3-C5-C6 |
| 25 | 1 | 613 | CLA | C4-C3-C5-C6 |
| 25 | a | 312 | CLA | C4-C3-C5-C6 |
| 33 | 1 | 601 | CHL | C4-C3-C5-C6 |
| 25 | L | 202 | CLA | O1D-CGD-O2D-CED |
| 33 | S | 310 | CHL | O1D-CGD-O2D-CED |
| 25 | A | 808 | CLA | C12-C13-C15-C16 |
| 25 | A | 809 | CLA | C6-C7-C8-C10 |
| 25 | A | 818 | CLA | C11-C12-C13-C15 |
| 25 | A | 819 | CLA | C12-C13-C15-C16 |
| 25 | A | 820 | CLA | C11-C12-C13-C15 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 825 | CLA | C11-C10-C8-C7 |
| 25 | A | 826 | CLA | C6-C7-C8-C10 |
| 25 | B | 801 | CLA | C2-C3-C5-C6 |
| 25 | B | 810 | CLA | C11-C12-C13-C15 |
| 25 | B | 822 | CLA | C11-C10-C8-C7 |
| 25 | B | 822 | CLA | C11-C12-C13-C15 |
| 25 | B | 822 | CLA | C12-C13-C15-C16 |
| 25 | B | 825 | CLA | C2-C3-C5-C6 |
| 25 | B | 830 | CLA | C6-C7-C8-C10 |
| 25 | B | 830 | CLA | C11-C12-C13-C15 |
| 25 | B | 836 | CLA | C11-C12-C13-C15 |
| 25 | B | 838 | CLA | C6-C7-C8-C10 |
| 25 | P | 612 | CLA | C2-C3-C5-C6 |
| 25 | R | 612 | CLA | C2-C3-C5-C6 |
| 25 | S | 313 | CLA | C2-C3-C5-C6 |
| 25 | S | 314 | CLA | C11-C10-C8-C7 |
| 25 | T | 610 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 607 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 609 | CLA | C11-C10-C8-C7 |
| 25 | 1 | 613 | CLA | C2-C3-C5-C6 |
| 25 | 2 | 309 | CLA | C11-C10-C8-C7 |
| 25 | 3 | 302 | CLA | C2-C3-C5-C6 |
| 25 | 7 | 303 | CLA | C6-C7-C8-C10 |
| 25 | 8 | 313 | CLA | C6-C7-C8-C10 |
| 25 | a | 306 | CLA | C2-C3-C5-C6 |
| 25 | a | 308 | CLA | C11-C10-C8-C7 |
| 25 | a | 312 | CLA | C2-C3-C5-C6 |
| 26 | A | 841 | PQN | C22-C23-C25-C26 |
| 33 | P | 609 | CHL | C2-C3-C5-C6 |
| 33 | Q | 608 | CHL | C2-C3-C5-C6 |
| 33 | R | 609 | CHL | C2-C3-C5-C6 |
| 27 | 8 | 319 | LHG | C30-C31-C32-C33 |
| 32 | J | 104 | LMG | C12-C13-C14-C15 |
| 32 | J | 107 | LMG | C22-C23-C24-C25 |
| 25 | P | 603 | CLA | C15-C16-C17-C18 |
| 25 | 8 | 310 | CLA | C8-C10-C11-C12 |
| 36 | P | 621 | NEX | C29-C30-C31-C32 |
| 36 | R | 617 | NEX | C13-C14-C15-C35 |
| 36 | U | 316 | NEX | C29-C30-C31-C32 |
| 27 | P | 618 | LHG | C7-C8-C9-C10 |
| 27 | P | 624 | LHG | C7-C8-C9-C10 |
| 25 | A | 825 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 842 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 813 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 823 | CLA | CBA-CGA-O2A-C1 |
| 25 | S | 303 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 604 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 613 | CLA | CBA-CGA-O2A-C1 |
| 25 | 5 | 324 | CLA | CBA-CGA-O2A-C1 |
| 25 | 6 | 609 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 311 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 312 | CLA | CBA-CGA-O2A-C1 |
| 27 | B | 847 | LHG | C24-C23-O8-C6 |
| 27 | 5 | 301 | LHG | C24-C23-O8-C6 |
| 33 | 6 | 607 | CHL | CBA-CGA-O2A-C1 |
| 27 | 5 | 301 | LHG | C12-C13-C14-C15 |
| 32 | 2 | 301 | LMG | C16-C17-C18-C19 |
| 32 | 7 | 319 | LMG | C13-C14-C15-C16 |
| 25 | A | 803 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 819 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 836 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 826 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 311 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 312 | CLA | C2A-CAA-CBA-CGA |
| 25 | 4 | 311 | CLA | C2A-CAA-CBA-CGA |
| 25 | 6 | 604 | CLA | C2A-CAA-CBA-CGA |
| 25 | 9 | 310 | CLA | C2A-CAA-CBA-CGA |
| 25 | 9 | 303 | CLA | O1D-CGD-O2D-CED |
| 25 | J | 103 | CLA | C5-C6-C7-C8 |
| 25 | 2 | 304 | CLA | C10-C11-C12-C13 |
| 25 | 2 | 312 | CLA | C8-C10-C11-C12 |
| 25 | 8 | 302 | CLA | C13-C15-C16-C17 |
| 25 | 2 | 308 | CLA | C2A-CAA-CBA-CGA |
| 33 | P | 601 | CHL | O1D-CGD-O2D-CED |
| 33 | Q | 601 | CHL | O1D-CGD-O2D-CED |
| 33 | R | 601 | CHL | O1D-CGD-O2D-CED |
| 33 | S | 306 | CHL | O1D-CGD-O2D-CED |
| 25 | 6 | 601 | CLA | C12-C13-C15-C16 |
| 27 | A | 844 | LHG | C7-C8-C9-C10 |
| 30 | B | 848 | DGD | C1B-C2B-C3B-C4B |
| 31 | B | 850 | SQD | C7-C8-C9-C10 |
| 25 | 4 | 303 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 312 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 827 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | U | 302 | CLA | C8-C10-C11-C12 |
| 27 | S | 319 | LHG | C32-C33-C34-C35 |
| 33 | T | 601 | CHL | O1D-CGD-O2D-CED |
| 25 | A | 838 | CLA | C4C-C3C-CAC-CBC |
| 27 | B | 847 | LHG | C11-C10-C9-C8 |
| 27 | B | 847 | LHG | C25-C26-C27-C28 |
| 27 | 5 | 321 | LHG | C26-C27-C28-C29 |
| 27 | 5 | 321 | LHG | C27-C28-C29-C30 |
| 33 | S | 309 | CHL | CBD-CGD-O2D-CED |
| 33 | 8 | 307 | CHL | CBD-CGD-O2D-CED |
| 25 | A | 853 | CLA | C16-C17-C18-C20 |
| 32 | 7 | 318 | LMG | O6-C1-O1-C7 |
| 25 | P | 602 | CLA | C8-C10-C11-C12 |
| 25 | R | 602 | CLA | C8-C10-C11-C12 |
| 25 | T | 602 | CLA | C8-C10-C11-C12 |
| 25 | 2 | 314 | CLA | O1D-CGD-O2D-CED |
| 25 | 3 | 312 | CLA | O1D-CGD-O2D-CED |
| 33 | P | 622 | CHL | O1D-CGD-O2D-CED |
| 33 | 6 | 617 | CHL | O1D-CGD-O2D-CED |
| 25 | B | 812 | CLA | C2C-C3C-CAC-CBC |
| 27 | Q | 617 | LHG | C11-C12-C13-C14 |
| 30 | B | 846 | DGD | C2B-C3B-C4B-C5B |
| 32 | 7 | 319 | LMG | C14-C15-C16-C17 |
| 30 | B | 846 | DGD | C3A-C4A-C5A-C6A |
| 32 | 1 | 619 | LMG | C13-C14-C15-C16 |
| 25 | 8 | 313 | CLA | C3-C5-C6-C7 |
| 25 | a | 309 | CLA | C3-C5-C6-C7 |
| 27 | T | 617 | LHG | C7-C8-C9-C10 |
| 31 | B | 850 | SQD | C28-C29-C30-C31 |
| 27 | 2 | 317 | LHG | O7-C5-C6-O8 |
| 30 | B | 848 | DGD | O1G-C1G-C2G-O2G |
| 32 | 1 | 619 | LMG | O7-C8-C9-O8 |
| 32 | 7 | 319 | LMG | O7-C8-C9-O8 |
| 25 | A | 820 | CLA | CBD-CGD-O2D-CED |
| 25 | 3 | 303 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 824 | CLA | C6-C7-C8-C10 |
| 25 | A | 840 | CLA | C16-C17-C18-C19 |
| 25 | B | 814 | CLA | C6-C7-C8-C9 |
| 25 | 3 | 311 | CLA | C6-C7-C8-C10 |
| 25 | 8 | 314 | CLA | C6-C7-C8-C10 |
| 27 | 5 | 301 | LHG | C11-C10-C9-C8 |
| 25 | B | 824 | CLA | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | L | 201 | CLA | C10-C11-C12-C13 |
| 25 | 2 | 312 | CLA | C5-C6-C7-C8 |
| 25 | S | 313 | CLA | C4-C3-C5-C6 |
| 25 | a | 306 | CLA | C4-C3-C5-C6 |
| 27 | a | 317 | LHG | C23-C24-C25-C26 |
| 25 | A | 810 | CLA | C2-C3-C5-C6 |
| 25 | B | 821 | CLA | C2-C3-C5-C6 |
| 25 | S | 314 | CLA | C2-C3-C5-C6 |
| 25 | A | 807 | CLA | C14-C13-C15-C16 |
| 25 | A | 808 | CLA | C11-C12-C13-C14 |
| 25 | A | 808 | CLA | C14-C13-C15-C16 |
| 25 | A | 812 | CLA | C6-C7-C8-C9 |
| 25 | A | 818 | CLA | C11-C12-C13-C14 |
| 25 | A | 819 | CLA | C14-C13-C15-C16 |
| 25 | A | 820 | CLA | C11-C12-C13-C14 |
| 25 | A | 822 | CLA | C6-C7-C8-C9 |
| 25 | A | 828 | CLA | C6-C7-C8-C9 |
| 25 | A | 838 | CLA | C11-C10-C8-C9 |
| 25 | B | 816 | CLA | C6-C7-C8-C9 |
| 25 | B | 822 | CLA | C11-C12-C13-C14 |
| 25 | R | 610 | CLA | C11-C12-C13-C14 |
| 25 | R | 613 | CLA | C14-C13-C15-C16 |
| 25 | S | 314 | CLA | C11-C10-C8-C9 |
| 25 | 1 | 610 | CLA | C11-C12-C13-C14 |
| 25 | 2 | 303 | CLA | C14-C13-C15-C16 |
| 25 | 2 | 312 | CLA | C14-C13-C15-C16 |
| 25 | 4 | 301 | CLA | C11-C10-C8-C9 |
| 25 | 7 | 303 | CLA | C6-C7-C8-C9 |
| 25 | 7 | 311 | CLA | C14-C13-C15-C16 |
| 25 | 9 | 303 | CLA | C6-C7-C8-C9 |
| 25 | a | 309 | CLA | C11-C12-C13-C14 |
| 25 | A | 836 | CLA | O1D-CGD-O2D-CED |
| 25 | U | 303 | CLA | C15-C16-C17-C18 |
| 25 | A | 838 | CLA | C2A-CAA-CBA-CGA |
| 25 | 3 | 314 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 313 | CLA | C2A-CAA-CBA-CGA |
| 25 | 9 | 309 | CLA | C2A-CAA-CBA-CGA |
| 33 | 6 | 606 | CHL | C2A-CAA-CBA-CGA |
| 32 | H | 204 | LMG | C30-C31-C32-C33 |
| 27 | 1 | 618 | LHG | C23-C24-C25-C26 |
| 28 | A | 846 | BCR | C7-C8-C9-C34 |
| 28 | I | 201 | BCR | C7-C8-C9-C34 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 28 | O | 204 | BCR | C7-C8-C9-C34 |
| 28 | 4 | 317 | BCR | C7-C8-C9-C34 |
| 25 | A | 816 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 806 | CLA | C15-C16-C17-C18 |
| 25 | Q | 603 | CLA | C15-C16-C17-C18 |
| 27 | Q | 617 | LHG | C24-C25-C26-C27 |
| 27 | R | 618 | LHG | C24-C25-C26-C27 |
| 25 | S | 303 | CLA | O1A-CGA-O2A-C1 |
| 25 | 3 | 311 | CLA | O1A-CGA-O2A-C1 |
| 25 | 6 | 609 | CLA | O1A-CGA-O2A-C1 |
| 33 | 6 | 607 | CHL | O1A-CGA-O2A-C1 |
| 25 | A | 803 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 804 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 807 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 809 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 823 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 832 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 804 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 818 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 822 | CLA | C1A-C2A-CAA-CBA |
| 25 | J | 103 | CLA | C1A-C2A-CAA-CBA |
| 25 | K | 201 | CLA | C1A-C2A-CAA-CBA |
| 25 | K | 202 | CLA | C1A-C2A-CAA-CBA |
| 25 | K | 204 | CLA | C1A-C2A-CAA-CBA |
| 25 | P | 610 | CLA | C1A-C2A-CAA-CBA |
| 25 | Q | 604 | CLA | C1A-C2A-CAA-CBA |
| 25 | Q | 609 | CLA | C1A-C2A-CAA-CBA |
| 25 | Q | 613 | CLA | C1A-C2A-CAA-CBA |
| 25 | R | 610 | CLA | C1A-C2A-CAA-CBA |
| 25 | R | 611 | CLA | C1A-C2A-CAA-CBA |
| 25 | R | 614 | CLA | C1A-C2A-CAA-CBA |
| 25 | S | 301 | CLA | C1A-C2A-CAA-CBA |
| 25 | S | 303 | CLA | C1A-C2A-CAA-CBA |
| 25 | T | 608 | CLA | C1A-C2A-CAA-CBA |
| 25 | T | 612 | CLA | C1A-C2A-CAA-CBA |
| 25 | U | 304 | CLA | C1A-C2A-CAA-CBA |
| 25 | U | 310 | CLA | C1A-C2A-CAA-CBA |
| 25 | U | 313 | CLA | C1A-C2A-CAA-CBA |
| 25 | 1 | 608 | CLA | C1A-C2A-CAA-CBA |
| 25 | 1 | 609 | CLA | C1A-C2A-CAA-CBA |
| 25 | 1 | 611 | CLA | C1A-C2A-CAA-CBA |
| 25 | 2 | 302 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 2 | 305 | CLA | C1A-C2A-CAA-CBA |
| 25 | 3 | 313 | CLA | C1A-C2A-CAA-CBA |
| 25 | 4 | 308 | CLA | C1A-C2A-CAA-CBA |
| 25 | 5 | 302 | CLA | C1A-C2A-CAA-CBA |
| 25 | 5 | 315 | CLA | C1A-C2A-CAA-CBA |
| 25 | 6 | 605 | CLA | C1A-C2A-CAA-CBA |
| 25 | 7 | 308 | CLA | C1A-C2A-CAA-CBA |
| 25 | 8 | 310 | CLA | C1A-C2A-CAA-CBA |
| 25 | 8 | 314 | CLA | C1A-C2A-CAA-CBA |
| 25 | 9 | 301 | CLA | C1A-C2A-CAA-CBA |
| 25 | a | 307 | CLA | C1A-C2A-CAA-CBA |
| 25 | a | 308 | CLA | C1A-C2A-CAA-CBA |
| 25 | a | 310 | CLA | C1A-C2A-CAA-CBA |
| 33 | P | 605 | CHL | C1A-C2A-CAA-CBA |
| 33 | P | 607 | CHL | C1A-C2A-CAA-CBA |
| 33 | P | 619 | CHL | C1A-C2A-CAA-CBA |
| 33 | R | 607 | CHL | C1A-C2A-CAA-CBA |
| 33 | S | 302 | CHL | C1A-C2A-CAA-CBA |
| 33 | S | 309 | CHL | C1A-C2A-CAA-CBA |
| 33 | S | 321 | CHL | C1A-C2A-CAA-CBA |
| 33 | T | 604 | CHL | C1A-C2A-CAA-CBA |
| 33 | U | 307 | CHL | C1A-C2A-CAA-CBA |
| 33 | 5 | 307 | CHL | C1A-C2A-CAA-CBA |
| 33 | 8 | 307 | CHL | C1A-C2A-CAA-CBA |
| 25 | A | 816 | CLA | C16-C17-C18-C20 |
| 25 | A | 853 | CLA | C16-C17-C18-C19 |
| 25 | 3 | 320 | CLA | C16-C17-C18-C19 |
| 25 | 8 | 314 | CLA | C6-C7-C8-C9 |
| 27 | 6 | 618 | LHG | O9-C7-O7-C5 |
| 32 | 7 | 319 | LMG | C11-C10-O7-C8 |
| 27 | P | 618 | LHG | C11-C12-C13-C14 |
| 27 | R | 618 | LHG | C11-C12-C13-C14 |
| 27 | 2 | 317 | LHG | C17-C18-C19-C20 |
| 30 | B | 846 | DGD | C4B-C5B-C6B-C7B |
| 28 | I | 201 | BCR | C19-C20-C21-C22 |
| 36 | P | 617 | NEX | C29-C30-C31-C32 |
| 36 | R | 617 | NEX | C29-C30-C31-C32 |
| 36 | T | 616 | NEX | C29-C30-C31-C32 |
| 36 | U | 301 | NEX | C29-C30-C31-C32 |
| 25 | A | 814 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 815 | CLA | C10-C11-C12-C13 |
| 25 | B | 824 | CLA | C8-C10-C11-C12 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | Q | 609 | CLA | C10-C11-C12-C13 |
| 25 | 1 | 613 | CLA | C15-C16-C17-C18 |
| 27 | A | 852 | LHG | C4-O6-P-O3 |
| 25 | A | 837 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 817 | CLA | C3-C5-C6-C7 |
| 25 | A | 825 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 801 | CLA | C15-C16-C17-C18 |
| 25 | A | 825 | CLA | C13-C15-C16-C17 |
| 25 | A | 827 | CLA | C10-C11-C12-C13 |
| 25 | Q | 602 | CLA | C8-C10-C11-C12 |
| 25 | 2 | 309 | CLA | C10-C11-C12-C13 |
| 25 | 4 | 301 | CLA | C10-C11-C12-C13 |
| 27 | 5 | 301 | LHG | O6-C4-C5-C6 |
| 27 | P | 624 | LHG | C24-C25-C26-C27 |
| 27 | 2 | 317 | LHG | C23-C24-C25-C26 |
| 32 | 7 | 319 | LMG | C28-C29-C30-C31 |
| 26 | A | 841 | PQN | C23-C25-C26-C27 |
| 27 | T | 617 | LHG | C24-C25-C26-C27 |
| 27 | P | 618 | LHG | C24-C25-C26-C27 |
| 25 | 3 | 320 | CLA | C5-C6-C7-C8 |
| 27 | T | 617 | LHG | C11-C12-C13-C14 |
| 25 | A | 824 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 612 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 310 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 604 | CLA | O1A-CGA-O2A-C1 |
| 32 | J | 104 | LMG | O6-C5-C6-O5 |
| 25 | B | 834 | CLA | C4-C3-C5-C6 |
| 25 | 2 | 304 | CLA | C4-C3-C5-C6 |
| 25 | 7 | 304 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 806 | CLA | C10-C11-C12-C13 |
| 25 | B | 825 | CLA | C10-C11-C12-C13 |
| 25 | B | 837 | CLA | C15-C16-C17-C18 |
| 27 | 5 | 301 | LHG | C11-C12-C13-C14 |
| 25 | B | 813 | CLA | O1A-CGA-O2A-C1 |
| 25 | 5 | 324 | CLA | O1A-CGA-O2A-C1 |
| 27 | B | 847 | LHG | O10-C23-O8-C6 |
| 27 | P | 624 | LHG | C11-C12-C13-C14 |
| 32 | J | 107 | LMG | C15-C16-C17-C18 |
| 25 | 6 | 603 | CLA | C8-C10-C11-C12 |
| 25 | 2 | 312 | CLA | C16-C17-C18-C20 |
| 25 | 9 | 303 | CLA | C11-C12-C13-C15 |
| 32 | 1 | 619 | LMG | O6-C5-C6-O5 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | K | 203 | CLA | C4C-C3C-CAC-CBC |
| 27 | A | 844 | LHG | C4-C5-C6-O8 |
| 31 | B | 850 | SQD | O6-C44-C45-C46 |
| 32 | J | 104 | LMG | O1-C7-C8-C9 |
| 32 | J | 107 | LMG | O1-C7-C8-C9 |
| 25 | 8 | 310 | CLA | C10-C11-C12-C13 |
| 32 | J | 104 | LMG | C31-C32-C33-C34 |
| 31 | B | 850 | SQD | C45-C44-O6-C1 |
| 27 | 2 | 317 | LHG | C32-C33-C34-C35 |
| 25 | B | 815 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 837 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 827 | CLA | C13-C15-C16-C17 |
| 25 | B | 824 | CLA | C13-C15-C16-C17 |
| 25 | T | 609 | CLA | C5-C6-C7-C8 |
| 25 | a | 312 | CLA | C15-C16-C17-C18 |
| 27 | 5 | 321 | LHG | C11-C10-C9-C8 |
| 27 | R | 618 | LHG | C7-C8-C9-C10 |
| 25 | A | 842 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 311 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 312 | CLA | O1A-CGA-O2A-C1 |
| 27 | 1 | 618 | LHG | C25-C26-C27-C28 |
| 25 | 1 | 610 | CLA | C3-C5-C6-C7 |
| 27 | A | 843 | LHG | C11-C10-C9-C8 |
| 31 | B | 850 | SQD | C27-C28-C29-C30 |
| 25 | B | 801 | CLA | C8-C10-C11-C12 |
| 25 | L | 205 | CLA | C5-C6-C7-C8 |
| 25 | 3 | 320 | CLA | C13-C15-C16-C17 |
| 25 | B | 823 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 613 | CLA | O1A-CGA-O2A-C1 |
| 32 | 7 | 318 | LMG | C28-C29-C30-C31 |
| 30 | B | 846 | DGD | O6E-C5E-C6E-O5E |
| 25 | A | 822 | CLA | C4-C3-C5-C6 |
| 25 | B | 812 | CLA | C4-C3-C5-C6 |
| 25 | B | 830 | CLA | C4-C3-C5-C6 |
| 25 | S | 314 | CLA | C4-C3-C5-C6 |
| 25 | 8 | 313 | CLA | C4-C3-C5-C6 |
| 25 | B | 812 | CLA | C2-C3-C5-C6 |
| 25 | 8 | 313 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 611 | CLA | CBA-CGA-O2A-C1 |
| 32 | 2 | 301 | LMG | C29-C28-O8-C9 |
| 25 | B | 810 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 815 | CLA | C8-C10-C11-C12 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | B | 801 | CLA | C10-C11-C12-C13 |
| 25 | B | 834 | CLA | C8-C10-C11-C12 |
| 25 | B | 836 | CLA | C13-C15-C16-C17 |
| 27 | A | 843 | LHG | C19-C20-C21-C22 |
| 25 | 8 | 309 | CLA | O1A-CGA-O2A-C1 |
| 25 | K | 203 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 810 | CLA | C2A-CAA-CBA-CGA |
| 25 | T | 608 | CLA | C2A-CAA-CBA-CGA |
| 33 | 5 | 308 | CHL | C2A-CAA-CBA-CGA |
| 25 | A | 832 | CLA | C13-C15-C16-C17 |
| 25 | B | 834 | CLA | C5-C6-C7-C8 |
| 25 | B | 849 | CLA | C15-C16-C17-C18 |
| 25 | S | 311 | CLA | C10-C11-C12-C13 |
| 25 | 3 | 305 | CLA | C8-C10-C11-C12 |
| 25 | 2 | 307 | CLA | C2-C1-O2A-CGA |
| 25 | a | 303 | CLA | C2-C1-O2A-CGA |
| 33 | 1 | 601 | CHL | C2-C1-O2A-CGA |
| 33 | 5 | 308 | CHL | C2-C1-O2A-CGA |
| 25 | 4 | 310 | CLA | O1D-CGD-O2D-CED |
| 25 | 7 | 313 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 311 | CLA | C3-C5-C6-C7 |
| 31 | B | 850 | SQD | C31-C32-C33-C34 |
| 25 | A | 822 | CLA | O1D-CGD-O2D-CED |
| 27 | A | 852 | LHG | C24-C25-C26-C27 |
| 25 | B | 834 | CLA | CBA-CGA-O2A-C1 |
| 25 | 3 | 320 | CLA | CBA-CGA-O2A-C1 |
| 25 | 5 | 309 | CLA | CBA-CGA-O2A-C1 |
| 33 | P | 609 | CHL | CBA-CGA-O2A-C1 |
| 33 | Q | 608 | CHL | CBA-CGA-O2A-C1 |
| 33 | R | 609 | CHL | CBA-CGA-O2A-C1 |
| 27 | 4 | 318 | LHG | O6-C4-C5-O7 |
| 27 | 5 | 321 | LHG | O6-C4-C5-O7 |
| 25 | A | 824 | CLA | C6-C7-C8-C9 |
| 25 | 7 | 301 | CLA | C16-C17-C18-C19 |
| 25 | 9 | 303 | CLA | C11-C12-C13-C14 |
| 27 | 5 | 301 | LHG | O10-C23-O8-C6 |
| 25 | A | 839 | CLA | C13-C15-C16-C17 |
| 25 | S | 304 | CLA | C8-C10-C11-C12 |
| 33 | P | 609 | CHL | C10-C11-C12-C13 |
| 33 | Q | 608 | CHL | C10-C11-C12-C13 |
| 30 | B | 848 | DGD | C2D-C1D-O3G-C3G |
| 32 | 7 | 319 | LMG | C2-C1-O1-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 27 | 6 | 618 | LHG | C9-C10-C11-C12 |
| 27 | A | 843 | LHG | C24-C23-O8-C6 |
| 27 | 2 | 317 | LHG | C24-C25-C26-C27 |
| 25 | A | 853 | CLA | C15-C16-C17-C18 |
| 33 | R | 609 | CHL | C10-C11-C12-C13 |
| 25 | 5 | 304 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 825 | CLA | O1D-CGD-O2D-CED |
| 27 | a | 317 | LHG | C25-C26-C27-C28 |
| 25 | 8 | 303 | CLA | C8-C10-C11-C12 |
| 25 | A | 801 | CLA | C6-C7-C8-C10 |
| 25 | A | 807 | CLA | C11-C12-C13-C15 |
| 25 | A | 807 | CLA | C12-C13-C15-C16 |
| 25 | A | 819 | CLA | C11-C12-C13-C15 |
| 25 | A | 822 | CLA | C6-C7-C8-C10 |
| 25 | A | 828 | CLA | C6-C7-C8-C10 |
| 25 | A | 830 | CLA | C11-C10-C8-C7 |
| 25 | A | 836 | CLA | C12-C13-C15-C16 |
| 25 | A | 838 | CLA | C11-C10-C8-C7 |
| 25 | B | 805 | CLA | C11-C12-C13-C15 |
| 25 | B | 805 | CLA | C12-C13-C15-C16 |
| 25 | B | 808 | CLA | C11-C12-C13-C15 |
| 25 | B | 809 | CLA | C11-C10-C8-C7 |
| 25 | B | 809 | CLA | C11-C12-C13-C15 |
| 25 | B | 811 | CLA | C11-C10-C8-C7 |
| 25 | B | 817 | CLA | C12-C13-C15-C16 |
| 25 | B | 824 | CLA | C11-C10-C8-C7 |
| 25 | B | 836 | CLA | C12-C13-C15-C16 |
| 25 | B | 837 | CLA | C12-C13-C15-C16 |
| 25 | B | 849 | CLA | C11-C10-C8-C7 |
| 25 | P | 613 | CLA | C11-C10-C8-C7 |
| 25 | Q | 609 | CLA | C11-C12-C13-C15 |
| 25 | Q | 612 | CLA | C11-C10-C8-C7 |
| 25 | R | 610 | CLA | C11-C12-C13-C15 |
| 25 | R | 613 | CLA | C11-C10-C8-C7 |
| 25 | R | 613 | CLA | C12-C13-C15-C16 |
| 25 | S | 314 | CLA | C12-C13-C15-C16 |
| 25 | T | 608 | CLA | C11-C12-C13-C15 |
| 25 | T | 611 | CLA | C11-C10-C8-C7 |
| 25 | U | 310 | CLA | C11-C12-C13-C15 |
| 25 | 1 | 608 | CLA | C11-C10-C8-C7 |
| 25 | 1 | 609 | CLA | C6-C7-C8-C10 |
| 25 | 1 | 610 | CLA | C11-C12-C13-C15 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 2 | 303 | CLA | C12-C13-C15-C16 |
| 25 | 2 | 309 | CLA | C6-C7-C8-C10 |
| 25 | 2 | 312 | CLA | C11-C10-C8-C7 |
| 25 | 2 | 312 | CLA | C12-C13-C15-C16 |
| 25 | 4 | 301 | CLA | C11-C10-C8-C7 |
| 25 | 4 | 311 | CLA | C6-C7-C8-C10 |
| 25 | 5 | 303 | CLA | C11-C12-C13-C15 |
| 25 | 6 | 613 | CLA | C6-C7-C8-C10 |
| 25 | 6 | 623 | CLA | C6-C7-C8-C10 |
| 25 | 7 | 311 | CLA | C12-C13-C15-C16 |
| 25 | a | 307 | CLA | C11-C10-C8-C7 |
| 25 | a | 308 | CLA | C6-C7-C8-C10 |
| 25 | a | 309 | CLA | C11-C12-C13-C15 |
| 25 | B | 822 | CLA | C3-C5-C6-C7 |
| 32 | 2 | 301 | LMG | C14-C15-C16-C17 |
| 25 | A | 802 | CLA | C11-C10-C8-C9 |
| 25 | A | 807 | CLA | C11-C12-C13-C14 |
| 25 | A | 812 | CLA | C14-C13-C15-C16 |
| 25 | A | 819 | CLA | C11-C12-C13-C14 |
| 25 | A | 825 | CLA | C11-C10-C8-C9 |
| 25 | A | 830 | CLA | C11-C10-C8-C9 |
| 25 | B | 805 | CLA | C11-C12-C13-C14 |
| 25 | B | 805 | CLA | C14-C13-C15-C16 |
| 25 | B | 808 | CLA | C11-C12-C13-C14 |
| 25 | B | 809 | CLA | C11-C10-C8-C9 |
| 25 | B | 811 | CLA | C11-C10-C8-C9 |
| 25 | B | 817 | CLA | C14-C13-C15-C16 |
| 25 | B | 824 | CLA | C11-C10-C8-C9 |
| 25 | B | 825 | CLA | C6-C7-C8-C9 |
| 25 | B | 831 | CLA | C11-C10-C8-C9 |
| 25 | B | 836 | CLA | C14-C13-C15-C16 |
| 25 | B | 838 | CLA | C6-C7-C8-C9 |
| 25 | L | 205 | CLA | C11-C12-C13-C14 |
| 25 | P | 613 | CLA | C11-C10-C8-C9 |
| 25 | Q | 609 | CLA | C11-C12-C13-C14 |
| 25 | Q | 612 | CLA | C11-C10-C8-C9 |
| 25 | R | 613 | CLA | C11-C10-C8-C9 |
| 25 | S | 314 | CLA | C14-C13-C15-C16 |
| 25 | T | 608 | CLA | C11-C12-C13-C14 |
| 25 | T | 609 | CLA | C11-C10-C8-C9 |
| 25 | T | 611 | CLA | C11-C10-C8-C9 |
| 25 | U | 310 | CLA | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | U | 312 | CLA | C11-C10-C8-C9 |
| 25 | 2 | 304 | CLA | C11-C12-C13-C14 |
| 25 | 2 | 312 | CLA | C11-C10-C8-C9 |
| 25 | 5 | 303 | CLA | C14-C13-C15-C16 |
| 25 | 5 | 313 | CLA | C6-C7-C8-C9 |
| 25 | 6 | 613 | CLA | C6-C7-C8-C9 |
| 25 | 6 | 623 | CLA | C6-C7-C8-C9 |
| 25 | 8 | 302 | CLA | C11-C12-C13-C14 |
| 25 | 8 | 313 | CLA | C6-C7-C8-C9 |
| 26 | A | 841 | PQN | C19-C18-C20-C21 |
| 27 | 7 | 317 | LHG | C27-C28-C29-C30 |
| 25 | A | 813 | CLA | C2A-CAA-CBA-CGA |
| 25 | R | 610 | CLA | C2A-CAA-CBA-CGA |
| 25 | U | 310 | CLA | C2A-CAA-CBA-CGA |
| 25 | 4 | 301 | CLA | C2A-CAA-CBA-CGA |
| 25 | 6 | 603 | CLA | C2A-CAA-CBA-CGA |
| 25 | 8 | 313 | CLA | C2A-CAA-CBA-CGA |
| 25 | 9 | 302 | CLA | C2A-CAA-CBA-CGA |
| 33 | S | 309 | CHL | O1D-CGD-O2D-CED |
| 25 | a | 310 | CLA | O1A-CGA-O2A-C1 |
| 28 | B | 840 | BCR | C37-C22-C23-C24 |
| 28 | J | 101 | BCR | C37-C22-C23-C24 |
| 34 | 4 | 316 | LUT | C11-C12-C13-C20 |
| 36 | P | 617 | NEX | C11-C12-C13-C20 |
| 25 | U | 312 | CLA | C16-C17-C18-C20 |
| 32 | J | 107 | LMG | C10-C11-C12-C13 |
| 28 | 5 | 320 | BCR | C11-C12-C13-C14 |
| 35 | P | 616 | XAT | C7-C8-C9-C10 |
| 35 | S | 318 | XAT | C7-C8-C9-C10 |
| 36 | U | 316 | NEX | C11-C12-C13-C14 |
| 32 | 7 | 319 | LMG | O9-C10-O7-C8 |
| 25 | B | 805 | CLA | C8-C10-C11-C12 |
| 25 | 2 | 309 | CLA | C8-C10-C11-C12 |
| 32 | H | 204 | LMG | C18-C19-C20-C21 |
| 25 | A | 814 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 804 | CLA | CBA-CGA-O2A-C1 |
| 27 | A | 852 | LHG | C24-C23-O8-C6 |
| 33 | S | 310 | CHL | CBA-CGA-O2A-C1 |
| 25 | 1 | 602 | CLA | C5-C6-C7-C8 |
| 25 | K | 203 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 309 | CLA | CBD-CGD-O2D-CED |
| 25 | U | 312 | CLA | C16-C17-C18-C19 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 3 | 320 | CLA | C10-C11-C12-C13 |
| 25 | a | 301 | CLA | C5-C6-C7-C8 |
| 27 | 4 | 318 | LHG | O6-C4-C5-C6 |
| 27 | 1 | 618 | LHG | C28-C29-C30-C31 |
| 25 | 8 | 304 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 818 | CLA | C10-C11-C12-C13 |
| 25 | T | 608 | CLA | C15-C16-C17-C18 |
| 25 | 3 | 303 | CLA | C4-C3-C5-C6 |
| 25 | 4 | 308 | CLA | C4-C3-C5-C6 |
| 33 | P | 622 | CHL | C4-C3-C5-C6 |
| 25 | 5 | 324 | CLA | C10-C11-C12-C13 |
| 27 | A | 852 | LHG | C11-C10-C9-C8 |
| 27 | 2 | 317 | LHG | C9-C10-C11-C12 |
| 25 | B | 849 | CLA | C3-C5-C6-C7 |
| 25 | 7 | 301 | CLA | C16-C17-C18-C20 |
| 27 | 4 | 319 | LHG | C11-C12-C13-C14 |
| 25 | B | 824 | CLA | C10-C11-C12-C13 |
| 25 | B | 814 | CLA | CBA-CGA-O2A-C1 |
| 27 | 2 | 317 | LHG | C7-C8-C9-C10 |
| 27 | S | 319 | LHG | C31-C32-C33-C34 |
| 25 | R | 604 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 824 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 834 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 837 | CLA | C3A-C2A-CAA-CBA |
| 25 | H | 203 | CLA | C3A-C2A-CAA-CBA |
| 25 | K | 201 | CLA | C3A-C2A-CAA-CBA |
| 25 | P | 604 | CLA | C3A-C2A-CAA-CBA |
| 25 | Q | 604 | CLA | C3A-C2A-CAA-CBA |
| 25 | T | 603 | CLA | C3A-C2A-CAA-CBA |
| 25 | U | 304 | CLA | C3A-C2A-CAA-CBA |
| 25 | 2 | 305 | CLA | C3A-C2A-CAA-CBA |
| 25 | 2 | 313 | CLA | C3A-C2A-CAA-CBA |
| 25 | 3 | 307 | CLA | C3A-C2A-CAA-CBA |
| 25 | 6 | 613 | CLA | C3A-C2A-CAA-CBA |
| 25 | 7 | 307 | CLA | C3A-C2A-CAA-CBA |
| 33 | T | 604 | CHL | C3A-C2A-CAA-CBA |
| 28 | K | 206 | BCR | C15-C16-C17-C18 |
| 36 | P | 617 | NEX | C13-C14-C15-C35 |
| 36 | T | 616 | NEX | C13-C14-C15-C35 |
| 36 | U | 301 | NEX | C13-C14-C15-C35 |
| 25 | P | 612 | CLA | C11-C12-C13-C14 |
| 25 | R | 612 | CLA | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 4 | 309 | CLA | C6-C7-C8-C9 |
| 25 | 6 | 615 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 812 | CLA | CBA-CGA-O2A-C1 |
| 25 | P | 612 | CLA | CBA-CGA-O2A-C1 |
| 25 | R | 612 | CLA | CBA-CGA-O2A-C1 |
| 33 | 3 | 306 | CHL | CBA-CGA-O2A-C1 |
| 25 | 7 | 308 | CLA | C8-C10-C11-C12 |
| 27 | A | 852 | LHG | C4-C5-C6-O8 |
| 27 | B | 847 | LHG | C4-C5-C6-O8 |
| 27 | 2 | 317 | LHG | C4-C5-C6-O8 |
| 27 | 4 | 318 | LHG | C4-C5-C6-O8 |
| 27 | 6 | 618 | LHG | C4-C5-C6-O8 |
| 32 | J | 102 | LMG | C7-C8-C9-O8 |
| 32 | 2 | 301 | LMG | O1-C7-C8-C9 |
| 32 | 6 | 602 | LMG | C7-C8-C9-O8 |
| 32 | 7 | 318 | LMG | O1-C7-C8-C9 |
| 32 | 7 | 319 | LMG | C7-C8-C9-O8 |
| 25 | 9 | 308 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 611 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 612 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 314 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 311 | CLA | C4-C3-C5-C6 |
| 25 | A | 840 | CLA | C16-C17-C18-C20 |
| 25 | 3 | 320 | CLA | C16-C17-C18-C20 |
| 25 | 3 | 303 | CLA | C2-C3-C5-C6 |
| 25 | T | 610 | CLA | O1D-CGD-O2D-CED |
| 25 | 3 | 309 | CLA | CBD-CGD-O2D-CED |
| 33 | 4 | 304 | CHL | CBD-CGD-O2D-CED |
| 32 | H | 204 | LMG | C16-C17-C18-C19 |
| 33 | P | 608 | CHL | C3C-C2C-CMC-OMC |
| 33 | Q | 607 | CHL | C3C-C2C-CMC-OMC |
| 33 | R | 605 | CHL | C3C-C2C-CMC-OMC |
| 33 | R | 608 | CHL | C3C-C2C-CMC-OMC |
| 33 | S | 308 | CHL | C3C-C2C-CMC-OMC |
| 33 | T | 606 | CHL | C3C-C2C-CMC-OMC |
| 33 | U | 305 | CHL | C3C-C2C-CMC-OMC |
| 33 | 5 | 317 | CHL | C3C-C2C-CMC-OMC |
| 25 | 3 | 320 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 819 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 820 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 849 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 804 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 829 | CLA | C2A-CAA-CBA-CGA |
| 25 | Q | 609 | CLA | C2A-CAA-CBA-CGA |
| 27 | 7 | 317 | LHG | O1-C1-C2-O2 |
| 27 | A | 843 | LHG | C13-C14-C15-C16 |
| 27 | 4 | 318 | LHG | C15-C16-C17-C18 |
| 32 | J | 104 | LMG | C11-C12-C13-C14 |
| 25 | A | 817 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 834 | CLA | O1A-CGA-O2A-C1 |
| 32 | 2 | 301 | LMG | O10-C28-O8-C9 |
| 25 | A | 815 | CLA | C11-C12-C13-C14 |
| 25 | A | 816 | CLA | C16-C17-C18-C19 |
| 25 | A | 851 | CLA | C10-C11-C12-C13 |
| 27 | S | 319 | LHG | O2-C2-C3-O3 |
| 32 | 2 | 301 | LMG | C15-C16-C17-C18 |
| 25 | A | 853 | CLA | C8-C10-C11-C12 |
| 25 | 5 | 309 | CLA | O1A-CGA-O2A-C1 |
| 27 | A | 852 | LHG | C15-C16-C17-C18 |
| 27 | A | 844 | LHG | O7-C5-C6-O8 |
| 25 | R | 611 | CLA | CAA-CBA-CGA-O2A |
| 30 | B | 848 | DGD | C9B-CAB-CBB-CCB |
| 27 | S | 319 | LHG | C26-C27-C28-C29 |
| 27 | a | 317 | LHG | C24-C25-C26-C27 |
| 32 | H | 204 | LMG | C31-C32-C33-C34 |
| 25 | A | 807 | CLA | C4-C3-C5-C6 |
| 25 | A | 828 | CLA | C4-C3-C5-C6 |
| 25 | A | 818 | CLA | C2-C1-O2A-CGA |
| 25 | A | 853 | CLA | C2-C1-O2A-CGA |
| 25 | 3 | 314 | CLA | C2-C1-O2A-CGA |
| 25 | 6 | 605 | CLA | C2-C1-O2A-CGA |
| 25 | 7 | 310 | CLA | C2-C1-O2A-CGA |
| 33 | 3 | 306 | CHL | C2-C1-O2A-CGA |
| 33 | 4 | 305 | CHL | C2-C1-O2A-CGA |
| 33 | 8 | 307 | CHL | C2-C1-O2A-CGA |
| 25 | A | 825 | CLA | C11-C12-C13-C14 |
| 25 | A | 830 | CLA | C6-C7-C8-C9 |
| 25 | B | 813 | CLA | C6-C7-C8-C9 |
| 25 | B | 823 | CLA | C6-C7-C8-C9 |
| 25 | B | 830 | CLA | C6-C7-C8-C9 |
| 25 | B | 836 | CLA | C11-C12-C13-C14 |
| 25 | B | 849 | CLA | C6-C7-C8-C9 |
| 25 | U | 312 | CLA | C14-C13-C15-C16 |
| 25 | 2 | 309 | CLA | C6-C7-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 3 | 308 | CLA | C6-C7-C8-C9 |
| 25 | 7 | 301 | CLA | C11-C10-C8-C9 |
| 25 | 7 | 301 | CLA | C11-C12-C13-C14 |
| 25 | 7 | 311 | CLA | C6-C7-C8-C9 |
| 25 | A | 814 | CLA | C8-C10-C11-C12 |
| 25 | B | 810 | CLA | C10-C11-C12-C13 |
| 25 | B | 806 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 814 | CLA | C2A-CAA-CBA-CGA |
| 25 | P | 610 | CLA | C2A-CAA-CBA-CGA |
| 25 | P | 613 | CLA | C2A-CAA-CBA-CGA |
| 25 | S | 305 | CLA | C2A-CAA-CBA-CGA |
| 25 | 7 | 311 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 829 | CLA | C16-C17-C18-C20 |
| 28 | B | 841 | BCR | C1-C6-C7-C8 |
| 28 | B | 843 | BCR | C5-C6-C7-C8 |
| 28 | B | 843 | BCR | C23-C24-C25-C30 |
| 28 | B | 845 | BCR | C1-C6-C7-C8 |
| 28 | B | 845 | BCR | C5-C6-C7-C8 |
| 28 | K | 206 | BCR | C1-C6-C7-C8 |
| 28 | K | 206 | BCR | C5-C6-C7-C8 |
| 28 | K | 206 | BCR | C23-C24-C25-C26 |
| 28 | K | 206 | BCR | C23-C24-C25-C30 |
| 28 | L | 208 | BCR | C23-C24-C25-C26 |
| 28 | L | 208 | BCR | C23-C24-C25-C30 |
| 28 | 3 | 317 | BCR | C5-C6-C7-C8 |
| 34 | Q | 615 | LUT | C5-C6-C7-C8 |
| 34 | T | 614 | LUT | C5-C6-C7-C8 |
| 34 | 1 | 615 | LUT | C1-C6-C7-C8 |
| 34 | 1 | 615 | LUT | C5-C6-C7-C8 |
| 34 | 2 | 315 | LUT | C5-C6-C7-C8 |
| 34 | 9 | 313 | LUT | C1-C6-C7-C8 |
| 34 | a | 314 | LUT | C5-C6-C7-C8 |
| 27 | 4 | 318 | LHG | C26-C27-C28-C29 |
| 31 | B | 850 | SQD | C35-C36-C37-C38 |
| 32 | 6 | 602 | LMG | C33-C34-C35-C36 |
| 28 | A | 848 | BCR | C11-C12-C13-C14 |
| 28 | A | 848 | BCR | C21-C22-C23-C24 |
| 28 | L | 207 | BCR | C17-C18-C19-C20 |
| 28 | 8 | 318 | BCR | C17-C18-C19-C20 |
| 34 | S | 316 | LUT | C11-C12-C13-C14 |
| 34 | S | 317 | LUT | C31-C32-C33-C34 |
| 34 | 7 | 314 | LUT | C7-C8-C9-C10 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 35 | P | 620 | XAT | C7-C8-C9-C10 |
| 36 | P | 617 | NEX | C11-C12-C13-C14 |
| 36 | T | 616 | NEX | C11-C12-C13-C14 |
| 25 | 2 | 303 | CLA | C15-C16-C17-C18 |
| 25 | 6 | 605 | CLA | C8-C10-C11-C12 |
| 27 | 1 | 618 | LHG | C24-C25-C26-C27 |
| 32 | 1 | 619 | LMG | C14-C15-C16-C17 |
| 25 | S | 315 | CLA | O2A-C1-C2-C3 |
| 25 | A | 801 | CLA | C16-C17-C18-C20 |
| 25 | Q | 609 | CLA | C16-C17-C18-C20 |
| 27 | A | 844 | LHG | C15-C16-C17-C18 |
| 27 | 5 | 321 | LHG | C24-C25-C26-C27 |
| 25 | A | 807 | CLA | O1D-CGD-O2D-CED |
| 25 | H | 201 | CLA | O1D-CGD-O2D-CED |
| 27 | 4 | 318 | LHG | C14-C15-C16-C17 |
| 32 | 1 | 619 | LMG | C33-C34-C35-C36 |
| 25 | B | 811 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 808 | CLA | C5-C6-C7-C8 |
| 27 | 5 | 301 | LHG | O2-C2-C3-O3 |
| 25 | A | 802 | CLA | C11-C10-C8-C7 |
| 25 | A | 807 | CLA | C2-C3-C5-C6 |
| 25 | A | 815 | CLA | C11-C10-C8-C7 |
| 25 | A | 840 | CLA | C6-C7-C8-C10 |
| 25 | B | 806 | CLA | C12-C13-C15-C16 |
| 25 | B | 813 | CLA | C6-C7-C8-C10 |
| 25 | B | 823 | CLA | C6-C7-C8-C10 |
| 25 | B | 825 | CLA | C6-C7-C8-C10 |
| 25 | B | 830 | CLA | C2-C3-C5-C6 |
| 25 | B | 831 | CLA | C11-C10-C8-C7 |
| 25 | B | 831 | CLA | C11-C12-C13-C15 |
| 25 | B | 834 | CLA | C11-C10-C8-C7 |
| 25 | B | 849 | CLA | C6-C7-C8-C10 |
| 25 | L | 202 | CLA | C11-C12-C13-C15 |
| 25 | L | 205 | CLA | C11-C12-C13-C15 |
| 25 | S | 304 | CLA | C6-C7-C8-C10 |
| 25 | U | 312 | CLA | C11-C10-C8-C7 |
| 25 | U | 312 | CLA | C12-C13-C15-C16 |
| 25 | 2 | 304 | CLA | C11-C12-C13-C15 |
| 25 | 3 | 305 | CLA | C11-C10-C8-C7 |
| 25 | 3 | 308 | CLA | C6-C7-C8-C10 |
| 25 | 3 | 308 | CLA | C12-C13-C15-C16 |
| 25 | 5 | 303 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 5 | 303 | CLA | C12-C13-C15-C16 |
| 25 | 6 | 601 | CLA | C11-C10-C8-C7 |
| 25 | 7 | 301 | CLA | C11-C10-C8-C7 |
| 25 | 8 | 302 | CLA | C11-C12-C13-C15 |
| 26 | A | 841 | PQN | C17-C18-C20-C21 |
| 25 | B | 812 | CLA | O1A-CGA-O2A-C1 |
| 28 | B | 851 | BCR | C19-C20-C21-C22 |
| 36 | U | 316 | NEX | C13-C14-C15-C35 |
| 25 | A | 829 | CLA | C16-C17-C18-C19 |
| 25 | Q | 612 | CLA | C11-C12-C13-C15 |
| 25 | T | 611 | CLA | C11-C12-C13-C15 |
| 25 | 4 | 309 | CLA | C6-C7-C8-C10 |
| 27 | 8 | 319 | LHG | C33-C34-C35-C36 |
| 25 | 6 | 603 | CLA | CBA-CGA-O2A-C1 |
| 27 | a | 317 | LHG | C28-C29-C30-C31 |
| 32 | J | 107 | LMG | C21-C22-C23-C24 |
| 33 | S | 310 | CHL | O1A-CGA-O2A-C1 |
| 25 | 6 | 601 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 313 | CLA | CBD-CGD-O2D-CED |
| 25 | B | 804 | CLA | C10-C11-C12-C13 |
| 25 | B | 821 | CLA | C10-C11-C12-C13 |
| 25 | 8 | 312 | CLA | CBA-CGA-O2A-C1 |
| 27 | 2 | 317 | LHG | C31-C32-C33-C34 |
| 27 | 6 | 618 | LHG | C11-C10-C9-C8 |
| 27 | 7 | 317 | LHG | C11-C10-C9-C8 |
| 25 | A | 806 | CLA | C8-C10-C11-C12 |
| 25 | A | 814 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 804 | CLA | O1A-CGA-O2A-C1 |
| 27 | 2 | 317 | LHG | C33-C34-C35-C36 |
| 25 | A | 805 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 809 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 810 | CLA | CAD-CBD-CGD-O2D |
| 25 | H | 203 | CLA | CAD-CBD-CGD-O2D |
| 25 | J | 105 | CLA | CAD-CBD-CGD-O2D |
| 25 | O | 201 | CLA | CAD-CBD-CGD-O2D |
| 25 | P | 604 | CLA | CAD-CBD-CGD-O2D |
| 25 | P | 612 | CLA | CAD-CBD-CGD-O2D |
| 25 | Q | 604 | CLA | CAD-CBD-CGD-O2D |
| 25 | R | 612 | CLA | CAD-CBD-CGD-O2D |
| 25 | S | 311 | CLA | CAD-CBD-CGD-O2D |
| 25 | S | 312 | CLA | CAD-CBD-CGD-O2D |
| 25 | T | 603 | CLA | CAD-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | T | 610 | CLA | CAD-CBD-CGD-O2D |
| 25 | U | 304 | CLA | CAD-CBD-CGD-O2D |
| 25 | 3 | 302 | CLA | CAD-CBD-CGD-O2D |
| 25 | 3 | 307 | CLA | CAD-CBD-CGD-O2D |
| 25 | 3 | 308 | CLA | CAD-CBD-CGD-O2D |
| 25 | 3 | 311 | CLA | CAD-CBD-CGD-O2D |
| 25 | 4 | 301 | CLA | CAD-CBD-CGD-O2D |
| 25 | 4 | 310 | CLA | CAD-CBD-CGD-O2D |
| 25 | 5 | 304 | CLA | CAD-CBD-CGD-O2D |
| 25 | 5 | 309 | CLA | CAD-CBD-CGD-O2D |
| 25 | 6 | 601 | CLA | CAD-CBD-CGD-O2D |
| 25 | 6 | 604 | CLA | CAD-CBD-CGD-O2D |
| 25 | 6 | 610 | CLA | CAD-CBD-CGD-O2D |
| 25 | 8 | 314 | CLA | CAD-CBD-CGD-O2D |
| 32 | J | 107 | LMG | C9-C8-O7-C10 |
| 32 | J | 102 | LMG | C16-C17-C18-C19 |
| 25 | A | 829 | CLA | C5-C6-C7-C8 |
| 25 | A | 853 | CLA | C5-C6-C7-C8 |
| 25 | B | 811 | CLA | C8-C10-C11-C12 |
| 25 | 5 | 305 | CLA | CBD-CGD-O2D-CED |
| 27 | 6 | 618 | LHG | C24-C23-O8-C6 |
| 25 | A | 837 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 839 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 822 | CLA | C4-C3-C5-C6 |
| 25 | a | 311 | CLA | C4-C3-C5-C6 |
| 33 | 7 | 305 | CHL | C4-C3-C5-C6 |
| 25 | 3 | 308 | CLA | C16-C17-C18-C19 |
| 25 | B | 814 | CLA | C5-C6-C7-C8 |
| 25 | A | 828 | CLA | C2-C3-C5-C6 |
| 25 | B | 822 | CLA | C2-C3-C5-C6 |
| 33 | 7 | 305 | CHL | C2-C3-C5-C6 |
| 27 | A | 852 | LHG | C2-C3-O3-P |
| 27 | 2 | 317 | LHG | C2-C3-O3-P |
| 30 | B | 848 | DGD | O1G-C1G-C2G-C3G |
| 32 | J | 107 | LMG | C7-C8-C9-O8 |
| 25 | B | 836 | CLA | CBD-CGD-O2D-CED |
| 27 | 5 | 301 | LHG | O6-C4-C5-O7 |
| 25 | A | 802 | CLA | C8-C10-C11-C12 |
| 25 | S | 314 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 604 | CLA | C2A-CAA-CBA-CGA |
| 25 | 6 | 613 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 814 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 6 | 605 | CLA | C16-C17-C18-C19 |
| 25 | A | 809 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 814 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 814 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 822 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 822 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 830 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 830 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 842 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 842 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 804 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 804 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 811 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 811 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 824 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 824 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 849 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 849 | CLA | CHA-CBD-CGD-O2D |
| 25 | G | 202 | CLA | CHA-CBD-CGD-O1D |
| 25 | L | 209 | CLA | CHA-CBD-CGD-O1D |
| 25 | L | 209 | CLA | CHA-CBD-CGD-O2D |
| 25 | P | 603 | CLA | CHA-CBD-CGD-O1D |
| 25 | P | 603 | CLA | CHA-CBD-CGD-O2D |
| 25 | Q | 603 | CLA | CHA-CBD-CGD-O1D |
| 25 | Q | 603 | CLA | CHA-CBD-CGD-O2D |
| 25 | R | 603 | CLA | CHA-CBD-CGD-O1D |
| 25 | R | 603 | CLA | CHA-CBD-CGD-O2D |
| 25 | S | 303 | CLA | CHA-CBD-CGD-O1D |
| 25 | S | 320 | CLA | CHA-CBD-CGD-O1D |
| 25 | S | 320 | CLA | CHA-CBD-CGD-O2D |
| 25 | U | 303 | CLA | CHA-CBD-CGD-O1D |
| 25 | U | 303 | CLA | CHA-CBD-CGD-O2D |
| 25 | 2 | 303 | CLA | CHA-CBD-CGD-O1D |
| 25 | 2 | 303 | CLA | CHA-CBD-CGD-O2D |
| 25 | 2 | 304 | CLA | CHA-CBD-CGD-O1D |
| 25 | 7 | 302 | CLA | CHA-CBD-CGD-O1D |
| 25 | 7 | 302 | CLA | CHA-CBD-CGD-O2D |
| 25 | 7 | 309 | CLA | CHA-CBD-CGD-O1D |
| 25 | 7 | 309 | CLA | CHA-CBD-CGD-O2D |
| 25 | 8 | 303 | CLA | CHA-CBD-CGD-O1D |
| 25 | 8 | 303 | CLA | CHA-CBD-CGD-O2D |
| 25 | 8 | 311 | CLA | CHA-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 8 | 311 | CLA | CHA-CBD-CGD-O2D |
| 33 | 1 | 601 | CHL | CHA-CBD-CGD-O1D |
| 33 | 1 | 601 | CHL | CHA-CBD-CGD-O2D |
| 33 | 4 | 322 | CHL | CHA-CBD-CGD-O1D |
| 33 | 4 | 322 | CHL | CHA-CBD-CGD-O2D |
| 25 | 8 | 312 | CLA | O1A-CGA-O2A-C1 |
| 27 | A | 843 | LHG | O10-C23-O8-C6 |
| 27 | A | 852 | LHG | O10-C23-O8-C6 |
| 33 | 3 | 306 | CHL | O1A-CGA-O2A-C1 |
| 32 | J | 107 | LMG | C17-C18-C19-C20 |
| 27 | A | 852 | LHG | O7-C5-C6-O8 |
| 32 | J | 104 | LMG | O1-C7-C8-O7 |
| 32 | 6 | 602 | LMG | O7-C8-C9-O8 |
| 32 | 7 | 319 | LMG | O1-C7-C8-O7 |
| 25 | A | 832 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 806 | CLA | C10-C11-C12-C13 |
| 25 | B | 815 | CLA | C11-C12-C13-C14 |
| 27 | 6 | 618 | LHG | C25-C26-C27-C28 |
| 25 | 5 | 305 | CLA | O1D-CGD-O2D-CED |
| 25 | Q | 611 | CLA | C2C-C3C-CAC-CBC |
| 27 | S | 319 | LHG | C30-C31-C32-C33 |
| 25 | 8 | 303 | CLA | C3-C5-C6-C7 |
| 25 | A | 853 | CLA | C4-C3-C5-C6 |
| 25 | A | 817 | CLA | O1A-CGA-O2A-C1 |
| 25 | 6 | 603 | CLA | O1A-CGA-O2A-C1 |
| 32 | H | 204 | LMG | C10-C11-C12-C13 |
| 25 | A | 822 | CLA | C2-C3-C5-C6 |
| 27 | 5 | 301 | LHG | O9-C7-O7-C5 |
| 25 | B | 815 | CLA | C11-C10-C8-C9 |
| 25 | 5 | 303 | CLA | C11-C10-C8-C9 |
| 25 | 5 | 310 | CLA | C11-C10-C8-C9 |
| 25 | 8 | 309 | CLA | O1D-CGD-O2D-CED |
| 33 | 7 | 305 | CHL | C5-C6-C7-C8 |
| 25 | B | 838 | CLA | C15-C16-C17-C18 |
| 25 | B | 816 | CLA | C2A-CAA-CBA-CGA |
| 25 | P | 604 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 309 | CLA | C2A-CAA-CBA-CGA |
| 25 | 6 | 601 | CLA | C14-C13-C15-C16 |
| 25 | B | 830 | CLA | CAA-CBA-CGA-O2A |
| 25 | 4 | 307 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 842 | CLA | C3-C5-C6-C7 |
| 25 | T | 608 | CLA | C8-C10-C11-C12 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 30 | B | 846 | DGD | C2A-C3A-C4A-C5A |
| 25 | 3 | 303 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 824 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 811 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 824 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 835 | CLA | C1A-C2A-CAA-CBA |
| 25 | P | 604 | CLA | C1A-C2A-CAA-CBA |
| 25 | T | 603 | CLA | C1A-C2A-CAA-CBA |
| 25 | 1 | 610 | CLA | C1A-C2A-CAA-CBA |
| 25 | 3 | 307 | CLA | C1A-C2A-CAA-CBA |
| 25 | 4 | 301 | CLA | C1A-C2A-CAA-CBA |
| 25 | 6 | 610 | CLA | C1A-C2A-CAA-CBA |
| 33 | S | 306 | CHL | C1A-C2A-CAA-CBA |
| 32 | 7 | 318 | LMG | C10-C11-C12-C13 |
| 27 | 5 | 301 | LHG | C8-C7-O7-C5 |
| 25 | A | 851 | CLA | CBD-CGD-O2D-CED |
| 27 | 5 | 321 | LHG | C3-O3-P-O6 |
| 27 | 2 | 317 | LHG | C28-C29-C30-C31 |
| 27 | 6 | 618 | LHG | C33-C34-C35-C36 |
| 27 | 6 | 618 | LHG | O2-C2-C3-O3 |
| 25 | 8 | 304 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 608 | CLA | C4-C3-C5-C6 |
| 25 | 1 | 612 | CLA | C4-C3-C5-C6 |
| 25 | B | 837 | CLA | O1D-CGD-O2D-CED |
| 27 | A | 852 | LHG | C4-O6-P-O5 |
| 27 | P | 618 | LHG | C4-O6-P-O4 |
| 27 | P | 624 | LHG | C4-O6-P-O4 |
| 27 | Q | 617 | LHG | C4-O6-P-O4 |
| 27 | R | 618 | LHG | C4-O6-P-O4 |
| 27 | T | 617 | LHG | C4-O6-P-O4 |
| 27 | 5 | 321 | LHG | C4-O6-P-O5 |
| 27 | 6 | 618 | LHG | C3-O3-P-O4 |
| 27 | 7 | 317 | LHG | C3-O3-P-O5 |
| 27 | 8 | 319 | LHG | C3-O3-P-O4 |
| 25 | A | 819 | CLA | C16-C17-C18-C20 |
| 25 | R | 611 | CLA | C11-C12-C13-C15 |
| 25 | A | 805 | CLA | CBD-CGD-O2D-CED |
| 27 | 5 | 321 | LHG | O6-C4-C5-C6 |
| 25 | 7 | 301 | CLA | C5-C6-C7-C8 |
| 25 | 1 | 613 | CLA | C3-C5-C6-C7 |
| 25 | 6 | 610 | CLA | C3-C5-C6-C7 |
| 33 | Q | 608 | CHL | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | R | 609 | CHL | O1A-CGA-O2A-C1 |
| 25 | a | 311 | CLA | C16-C17-C18-C19 |
| 25 | A | 806 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 814 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 816 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 825 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 836 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 842 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 804 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 811 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 812 | CLA | CAD-CBD-CGD-O1D |
| 25 | B | 824 | CLA | CAD-CBD-CGD-O1D |
| 25 | G | 202 | CLA | CAD-CBD-CGD-O1D |
| 25 | S | 303 | CLA | CAD-CBD-CGD-O1D |
| 25 | 2 | 303 | CLA | CAD-CBD-CGD-O1D |
| 25 | 2 | 304 | CLA | CAD-CBD-CGD-O1D |
| 25 | 6 | 623 | CLA | CAD-CBD-CGD-O1D |
| 36 | P | 621 | NEX | C7-C8-C9-C10 |
| 25 | 5 | 319 | CLA | CBD-CGD-O2D-CED |
| 32 | H | 204 | LMG | C28-C29-C30-C31 |
| 33 | 4 | 305 | CHL | CAA-CBA-CGA-O2A |
| 25 | A | 832 | CLA | O1A-CGA-O2A-C1 |
| 33 | P | 609 | CHL | O1A-CGA-O2A-C1 |
| 32 | 1 | 619 | LMG | C10-C11-C12-C13 |
| 30 | B | 848 | DGD | C3B-C4B-C5B-C6B |
| 25 | a | 307 | CLA | CBA-CGA-O2A-C1 |
| 25 | 4 | 307 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 810 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 811 | CLA | C13-C15-C16-C17 |
| 25 | A | 814 | CLA | C16-C17-C18-C19 |
| 25 | A | 806 | CLA | C11-C10-C8-C7 |
| 25 | A | 851 | CLA | C11-C12-C13-C15 |
| 25 | A | 851 | CLA | C12-C13-C15-C16 |
| 25 | B | 801 | CLA | C6-C7-C8-C10 |
| 25 | B | 806 | CLA | C11-C10-C8-C7 |
| 25 | B | 813 | CLA | C11-C10-C8-C7 |
| 25 | B | 815 | CLA | C11-C10-C8-C7 |
| 25 | B | 824 | CLA | C3A-C2A-CAA-CBA |
| 25 | L | 202 | CLA | C6-C7-C8-C10 |
| 25 | P | 612 | CLA | C11-C10-C8-C7 |
| 25 | R | 612 | CLA | C11-C10-C8-C7 |
| 25 | 1 | 612 | CLA | C6-C7-C8-C10 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 3 | 320 | CLA | C11-C12-C13-C15 |
| 25 | 5 | 310 | CLA | C11-C10-C8-C7 |
| 25 | 5 | 324 | CLA | C6-C7-C8-C10 |
| 25 | 6 | 603 | CLA | C11-C10-C8-C7 |
| 25 | 6 | 605 | CLA | C11-C10-C8-C7 |
| 25 | 6 | 605 | CLA | C12-C13-C15-C16 |
| 25 | a | 311 | CLA | C6-C7-C8-C10 |
| 33 | P | 609 | CHL | C11-C10-C8-C7 |
| 33 | Q | 608 | CHL | C11-C10-C8-C7 |
| 33 | R | 609 | CHL | C11-C10-C8-C7 |
| 32 | 1 | 619 | LMG | C29-C30-C31-C32 |
| 25 | S | 314 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 825 | CLA | CAA-CBA-CGA-O2A |
| 25 | 8 | 302 | CLA | C2C-C3C-CAC-CBC |
| 30 | B | 846 | DGD | C1B-C2B-C3B-C4B |
| 27 | B | 847 | LHG | C26-C27-C28-C29 |
| 27 | 4 | 318 | LHG | C9-C10-C11-C12 |
| 32 | 2 | 301 | LMG | C12-C13-C14-C15 |
| 33 | U | 309 | CHL | C2C-C3C-CAC-CBC |
| 27 | 7 | 317 | LHG | C10-C11-C12-C13 |
| 25 | 8 | 315 | CLA | CBD-CGD-O2D-CED |
| 25 | Q | 604 | CLA | C2A-CAA-CBA-CGA |
| 25 | U | 304 | CLA | C2A-CAA-CBA-CGA |
| 25 | 1 | 602 | CLA | C2A-CAA-CBA-CGA |
| 25 | S | 314 | CLA | C16-C17-C18-C20 |
| 25 | a | 312 | CLA | C3-C5-C6-C7 |
| 27 | 8 | 319 | LHG | C4-C5-C6-O8 |
| 32 | 7 | 319 | LMG | O1-C7-C8-C9 |
| 33 | P | 601 | CHL | C1C-C2C-CMC-OMC |
| 33 | P | 606 | CHL | C1C-C2C-CMC-OMC |
| 33 | P | 607 | CHL | C1C-C2C-CMC-OMC |
| 33 | P | 608 | CHL | C1C-C2C-CMC-OMC |
| 33 | P | 619 | CHL | C1C-C2C-CMC-OMC |
| 33 | Q | 601 | CHL | C1C-C2C-CMC-OMC |
| 33 | Q | 606 | CHL | C1C-C2C-CMC-OMC |
| 33 | Q | 607 | CHL | C1C-C2C-CMC-OMC |
| 33 | R | 601 | CHL | C1C-C2C-CMC-OMC |
| 33 | R | 606 | CHL | C1C-C2C-CMC-OMC |
| 33 | R | 607 | CHL | C1C-C2C-CMC-OMC |
| 33 | R | 608 | CHL | C1C-C2C-CMC-OMC |
| 33 | S | 306 | CHL | C1C-C2C-CMC-OMC |
| 33 | S | 308 | CHL | C1C-C2C-CMC-OMC |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | S | 310 | CHL | C1C-C2C-CMC-OMC |
| 33 | S | 321 | CHL | C1C-C2C-CMC-OMC |
| 33 | T | 601 | CHL | C1C-C2C-CMC-OMC |
| 33 | T | 605 | CHL | C1C-C2C-CMC-OMC |
| 33 | T | 606 | CHL | C1C-C2C-CMC-OMC |
| 33 | U | 305 | CHL | C1C-C2C-CMC-OMC |
| 33 | U | 306 | CHL | C1C-C2C-CMC-OMC |
| 33 | U | 307 | CHL | C1C-C2C-CMC-OMC |
| 33 | 1 | 606 | CHL | C1C-C2C-CMC-OMC |
| 33 | 4 | 314 | CHL | C1C-C2C-CMC-OMC |
| 33 | 5 | 317 | CHL | C1C-C2C-CMC-OMC |
| 33 | 6 | 617 | CHL | C1C-C2C-CMC-OMC |
| 33 | 9 | 306 | CHL | C1C-C2C-CMC-OMC |
| 33 | 9 | 307 | CHL | C1C-C2C-CMC-OMC |
| 33 | a | 305 | CHL | C1C-C2C-CMC-OMC |
| 31 | B | 850 | SQD | O6-C44-C45-O47 |
| 32 | J | 107 | LMG | O7-C8-C9-O8 |
| 32 | 7 | 318 | LMG | O1-C7-C8-O7 |
| 25 | P | 611 | CLA | C4C-C3C-CAC-CBC |
| 25 | P | 610 | CLA | C8-C10-C11-C12 |
| 32 | H | 204 | LMG | C35-C36-C37-C38 |
| 25 | A | 819 | CLA | C16-C17-C18-C19 |
| 25 | 1 | 612 | CLA | C16-C17-C18-C19 |
| 25 | A | 825 | CLA | C3-C5-C6-C7 |
| 25 | A | 837 | CLA | C4-C3-C5-C6 |
| 25 | 6 | 601 | CLA | C4-C3-C5-C6 |
| 25 | B | 834 | CLA | C2-C3-C5-C6 |
| 25 | A | 803 | CLA | C11-C12-C13-C14 |
| 25 | A | 840 | CLA | C6-C7-C8-C9 |
| 25 | B | 825 | CLA | C14-C13-C15-C16 |
| 25 | B | 831 | CLA | C11-C12-C13-C14 |
| 25 | B | 834 | CLA | C11-C10-C8-C9 |
| 25 | L | 201 | CLA | C11-C12-C13-C14 |
| 25 | L | 202 | CLA | C6-C7-C8-C9 |
| 25 | L | 202 | CLA | C11-C12-C13-C14 |
| 25 | R | 602 | CLA | C6-C7-C8-C9 |
| 25 | 1 | 608 | CLA | C11-C10-C8-C9 |
| 25 | 2 | 312 | CLA | C6-C7-C8-C9 |
| 25 | 8 | 310 | CLA | C11-C10-C8-C9 |
| 25 | 8 | 313 | CLA | C11-C12-C13-C14 |
| 25 | a | 311 | CLA | C6-C7-C8-C9 |
| 33 | P | 609 | CHL | C14-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | Q | 608 | CHL | C14-C13-C15-C16 |
| 33 | R | 609 | CHL | C14-C13-C15-C16 |
| 25 | A | 826 | CLA | O1D-CGD-O2D-CED |
| 25 | 5 | 313 | CLA | O1D-CGD-O2D-CED |
| 33 | 4 | 304 | CHL | O1D-CGD-O2D-CED |
| 30 | B | 848 | DGD | O6E-C5E-C6E-O5E |
| 31 | B | 850 | SQD | C26-C27-C28-C29 |
| 25 | Q | 609 | CLA | C8-C10-C11-C12 |
| 36 | T | 616 | NEX | C11-C12-C13-C20 |
| 25 | U | 310 | CLA | C8-C10-C11-C12 |
| 25 | A | 812 | CLA | C16-C17-C18-C19 |
| 28 | L | 204 | BCR | C17-C18-C19-C20 |
| 27 | a | 317 | LHG | C10-C11-C12-C13 |
| 27 | A | 844 | LHG | O9-C7-O7-C5 |
| 25 | A | 804 | CLA | C8-C10-C11-C12 |
| 25 | B | 810 | CLA | C4-C3-C5-C6 |
| 25 | a | 311 | CLA | C2-C3-C5-C6 |
| 25 | T | 610 | CLA | C2C-C3C-CAC-CBC |
| 25 | A | 823 | CLA | C1-C2-C3-C4 |
| 25 | B | 829 | CLA | C1-C2-C3-C4 |
| 33 | P | 606 | CHL | C1-C2-C3-C4 |
| 33 | Q | 606 | CHL | C1-C2-C3-C4 |
| 33 | R | 606 | CHL | C1-C2-C3-C4 |
| 33 | S | 307 | CHL | C1-C2-C3-C4 |
| 33 | T | 601 | CHL | C1-C2-C3-C4 |
| 33 | T | 605 | CHL | C1-C2-C3-C4 |
| 33 | U | 306 | CHL | C1-C2-C3-C4 |
| 25 | A | 810 | CLA | C3-C5-C6-C7 |
| 25 | A | 837 | CLA | C10-C11-C12-C13 |
| 25 | B | 815 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 820 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 802 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 804 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 834 | CLA | C2A-CAA-CBA-CGA |
| 25 | Q | 612 | CLA | C2A-CAA-CBA-CGA |
| 25 | R | 613 | CLA | C2A-CAA-CBA-CGA |
| 25 | T | 611 | CLA | C2A-CAA-CBA-CGA |
| 25 | U | 312 | CLA | C2A-CAA-CBA-CGA |
| 25 | 8 | 304 | CLA | C2A-CAA-CBA-CGA |
| 25 | 8 | 310 | CLA | C2A-CAA-CBA-CGA |
| 25 | a | 301 | CLA | C2A-CAA-CBA-CGA |
| 25 | P | 613 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 826 | CLA | C2-C1-O2A-CGA |
| 25 | B | 815 | CLA | C2-C1-O2A-CGA |
| 25 | R | 603 | CLA | C2-C1-O2A-CGA |
| 25 | 1 | 613 | CLA | C2-C1-O2A-CGA |
| 25 | 9 | 310 | CLA | C2-C1-O2A-CGA |
| 25 | a | 312 | CLA | C2-C1-O2A-CGA |
| 33 | S | 302 | CHL | C2-C1-O2A-CGA |
| 33 | T | 607 | CHL | C2-C1-O2A-CGA |
| 25 | 5 | 319 | CLA | O1D-CGD-O2D-CED |
| 25 | 9 | 308 | CLA | O1D-CGD-O2D-CED |
| 32 | 7 | 318 | LMG | C29-C30-C31-C32 |
| 25 | 3 | 314 | CLA | CBD-CGD-O2D-CED |
| 28 | B | 843 | BCR | C19-C20-C21-C22 |
| 25 | P | 613 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 307 | CLA | O1A-CGA-O2A-C1 |
| 27 | 6 | 618 | LHG | O10-C23-O8-C6 |
| 25 | R | 610 | CLA | C8-C10-C11-C12 |
| 25 | a | 307 | CLA | C4-C3-C5-C6 |
| 25 | A | 805 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 824 | CLA | O1D-CGD-O2D-CED |
| 28 | B | 843 | BCR | C23-C24-C25-C26 |
| 28 | 3 | 317 | BCR | C1-C6-C7-C8 |
| 34 | P | 615 | LUT | C5-C6-C7-C8 |
| 34 | R | 616 | LUT | C5-C6-C7-C8 |
| 34 | U | 315 | LUT | C5-C6-C7-C8 |
| 34 | 2 | 315 | LUT | C1-C6-C7-C8 |
| 34 | 9 | 312 | LUT | C1-C6-C7-C8 |
| 34 | 9 | 313 | LUT | C5-C6-C7-C8 |
| 25 | A | 853 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 612 | CLA | C2-C3-C5-C6 |
| 25 | 2 | 304 | CLA | C2-C3-C5-C6 |
| 25 | 4 | 308 | CLA | C2-C3-C5-C6 |
| 33 | P | 622 | CHL | C2-C3-C5-C6 |
| 25 | B | 802 | CLA | O1A-CGA-O2A-C1 |
| 27 | 8 | 319 | LHG | C17-C18-C19-C20 |
| 25 | Q | 611 | CLA | C4C-C3C-CAC-CBC |
| 25 | S | 311 | CLA | C11-C12-C13-C14 |
| 25 | 1 | 612 | CLA | C16-C17-C18-C20 |
| 25 | 3 | 308 | CLA | C16-C17-C18-C20 |
| 25 | a | 311 | CLA | C16-C17-C18-C20 |
| 27 | 2 | 317 | LHG | C13-C14-C15-C16 |
| 32 | J | 102 | LMG | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 802 | CLA | C2A-CAA-CBA-CGA |
| 25 | G | 201 | CLA | C2A-CAA-CBA-CGA |
| 25 | R | 604 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 303 | CLA | C2A-CAA-CBA-CGA |
| 27 | 8 | 319 | LHG | O7-C5-C6-O8 |
| 30 | B | 846 | DGD | O2G-C2G-C3G-O3G |
| 32 | J | 107 | LMG | O1-C7-C8-O7 |
| 32 | 2 | 301 | LMG | O1-C7-C8-O7 |
| 27 | A | 843 | LHG | C3-O3-P-O6 |
| 27 | P | 618 | LHG | C3-O3-P-O6 |
| 27 | P | 624 | LHG | C3-O3-P-O6 |
| 27 | Q | 617 | LHG | C3-O3-P-O6 |
| 27 | R | 618 | LHG | C3-O3-P-O6 |
| 27 | S | 319 | LHG | C3-O3-P-O6 |
| 27 | T | 617 | LHG | C3-O3-P-O6 |
| 27 | 1 | 618 | LHG | C3-O3-P-O6 |
| 27 | 1 | 618 | LHG | C4-O6-P-O3 |
| 27 | 2 | 317 | LHG | C3-O3-P-O6 |
| 27 | 4 | 318 | LHG | C3-O3-P-O6 |
| 27 | 4 | 318 | LHG | C4-O6-P-O3 |
| 27 | 4 | 319 | LHG | C3-O3-P-O6 |
| 27 | 4 | 319 | LHG | C4-O6-P-O3 |
| 27 | a | 317 | LHG | C3-O3-P-O6 |
| 27 | a | 317 | LHG | C4-O6-P-O3 |
| 27 | 7 | 317 | LHG | C4-C5-C6-O8 |
| 25 | B | 805 | CLA | C4-C3-C5-C6 |
| 25 | B | 816 | CLA | C5-C6-C7-C8 |
| 25 | B | 826 | CLA | C5-C6-C7-C8 |
| 25 | B | 830 | CLA | C12-C13-C15-C16 |
| 25 | Q | 602 | CLA | C6-C7-C8-C10 |
| 25 | R | 602 | CLA | C6-C7-C8-C10 |
| 25 | T | 608 | CLA | C12-C13-C15-C16 |
| 25 | T | 609 | CLA | C11-C10-C8-C7 |
| 25 | 3 | 302 | CLA | C11-C12-C13-C15 |
| 25 | 5 | 304 | CLA | O1A-CGA-O2A-C1 |
| 27 | A | 843 | LHG | C10-C11-C12-C13 |
| 25 | A | 851 | CLA | C14-C13-C15-C16 |
| 25 | B | 801 | CLA | C6-C7-C8-C9 |
| 25 | B | 806 | CLA | C11-C10-C8-C9 |
| 25 | B | 806 | CLA | C14-C13-C15-C16 |
| 25 | B | 813 | CLA | C11-C10-C8-C9 |
| 25 | B | 822 | CLA | C14-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | B | 830 | CLA | C14-C13-C15-C16 |
| 25 | B | 837 | CLA | C14-C13-C15-C16 |
| 25 | B | 849 | CLA | C11-C10-C8-C9 |
| 25 | Q | 602 | CLA | C6-C7-C8-C9 |
| 25 | R | 613 | CLA | C11-C12-C13-C14 |
| 25 | 1 | 612 | CLA | C6-C7-C8-C9 |
| 25 | 5 | 324 | CLA | C6-C7-C8-C9 |
| 25 | 6 | 603 | CLA | C11-C10-C8-C9 |
| 25 | a | 307 | CLA | C11-C10-C8-C9 |
| 25 | 6 | 604 | CLA | O1D-CGD-O2D-CED |
| 35 | P | 620 | XAT | C9-C10-C11-C12 |
| 35 | Q | 616 | XAT | C9-C10-C11-C12 |
| 25 | B | 836 | CLA | C16-C17-C18-C20 |
| 25 | U | 311 | CLA | C2C-C3C-CAC-CBC |
| 25 | B | 802 | CLA | CBA-CGA-O2A-C1 |
| 25 | T | 611 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 802 | CLA | C8-C10-C11-C12 |
| 25 | B | 827 | CLA | O1A-CGA-O2A-C1 |
| 27 | 2 | 317 | LHG | C26-C27-C28-C29 |
| 32 | J | 102 | LMG | C31-C32-C33-C34 |
| 25 | 4 | 307 | CLA | C2A-CAA-CBA-CGA |
| 25 | 7 | 313 | CLA | C2A-CAA-CBA-CGA |
| 27 | 6 | 618 | LHG | C17-C18-C19-C20 |
| 28 | 6 | 621 | BCR | C11-C12-C13-C35 |
| 27 | B | 847 | LHG | C2-C3-O3-P |
| 27 | 4 | 318 | LHG | C2-C3-O3-P |
| 25 | T | 611 | CLA | O1A-CGA-O2A-C1 |
| 25 | U | 302 | CLA | C10-C11-C12-C13 |
| 28 | O | 204 | BCR | C7-C8-C9-C10 |
| 28 | 4 | 317 | BCR | C17-C18-C19-C20 |
| 32 | 1 | 619 | LMG | C20-C21-C22-C23 |
| 25 | 6 | 611 | CLA | C5-C6-C7-C8 |
| 25 | T | 610 | CLA | C4C-C3C-CAC-CBC |
| 25 | A | 829 | CLA | C4-C3-C5-C6 |
| 25 | 7 | 303 | CLA | C4-C3-C5-C6 |
| 32 | J | 107 | LMG | C28-C29-C30-C31 |
| 27 | 5 | 301 | LHG | O1-C1-C2-O2 |
| 27 | 6 | 618 | LHG | O1-C1-C2-O2 |
| 25 | S | 314 | CLA | C16-C17-C18-C19 |
| 25 | 4 | 308 | CLA | C11-C12-C13-C15 |
| 25 | B | 827 | CLA | CBA-CGA-O2A-C1 |
| 25 | S | 305 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | U | 312 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 608 | CLA | CBA-CGA-O2A-C1 |
| 25 | 8 | 310 | CLA | CBA-CGA-O2A-C1 |
| 27 | 7 | 317 | LHG | C7-C8-C9-C10 |
| 25 | B | 820 | CLA | C11-C12-C13-C14 |
| 25 | R | 602 | CLA | C2A-CAA-CBA-CGA |
| 25 | S | 311 | CLA | C2A-CAA-CBA-CGA |
| 25 | 3 | 301 | CLA | C2A-CAA-CBA-CGA |
| 25 | 9 | 303 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 836 | CLA | C16-C17-C18-C19 |
| 25 | 5 | 310 | CLA | C11-C12-C13-C14 |
| 25 | B | 810 | CLA | C5-C6-C7-C8 |
| 27 | Q | 617 | LHG | C28-C29-C30-C31 |
| 25 | U | 312 | CLA | O1A-CGA-O2A-C1 |
| 25 | 8 | 310 | CLA | O1A-CGA-O2A-C1 |
| 25 | R | 602 | CLA | C10-C11-C12-C13 |
| 25 | A | 819 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 604 | CLA | C4-C3-C5-C6 |
| 25 | 5 | 324 | CLA | C4-C3-C5-C6 |
| 25 | 8 | 312 | CLA | C4-C3-C5-C6 |
| 25 | B | 826 | CLA | C2-C3-C5-C6 |
| 25 | S | 305 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 811 | CLA | O1D-CGD-O2D-CED |
| 25 | 6 | 603 | CLA | C10-C11-C12-C13 |
| 25 | a | 308 | CLA | C8-C10-C11-C12 |
| 35 | P | 623 | XAT | C7-C8-C9-C10 |
| 35 | P | 623 | XAT | C9-C10-C11-C12 |
| 25 | A | 811 | CLA | C2-C1-O2A-CGA |
| 25 | A | 814 | CLA | C2-C1-O2A-CGA |
| 25 | B | 809 | CLA | C2-C1-O2A-CGA |
| 25 | B | 829 | CLA | C2-C1-O2A-CGA |
| 25 | B | 837 | CLA | C2-C1-O2A-CGA |
| 25 | P | 603 | CLA | C2-C1-O2A-CGA |
| 25 | Q | 603 | CLA | C2-C1-O2A-CGA |
| 25 | S | 320 | CLA | C2-C1-O2A-CGA |
| 25 | U | 303 | CLA | C2-C1-O2A-CGA |
| 25 | 1 | 603 | CLA | C2-C1-O2A-CGA |
| 33 | P | 609 | CHL | C2-C1-O2A-CGA |
| 33 | Q | 608 | CHL | C2-C1-O2A-CGA |
| 33 | R | 609 | CHL | C2-C1-O2A-CGA |
| 33 | T | 607 | CHL | C2C-C3C-CAC-CBC |
| 25 | T | 609 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 816 | CLA | C8-C10-C11-C12 |
| 25 | A | 828 | CLA | C5-C6-C7-C8 |
| 25 | B | 812 | CLA | C2A-CAA-CBA-CGA |
| 25 | P | 602 | CLA | C2A-CAA-CBA-CGA |
| 25 | Q | 602 | CLA | C2A-CAA-CBA-CGA |
| 25 | T | 602 | CLA | C2A-CAA-CBA-CGA |
| 25 | U | 302 | CLA | C2A-CAA-CBA-CGA |
| 25 | 6 | 610 | CLA | C2A-CAA-CBA-CGA |
| 25 | 7 | 301 | CLA | C2A-CAA-CBA-CGA |
| 25 | a | 311 | CLA | C2A-CAA-CBA-CGA |
| 33 | R | 606 | CHL | C2A-CAA-CBA-CGA |
| 25 | A | 801 | CLA | CAA-CBA-CGA-O2A |
| 25 | B | 834 | CLA | CBD-CGD-O2D-CED |
| 25 | U | 311 | CLA | C4C-C3C-CAC-CBC |
| 27 | A | 844 | LHG | C11-C12-C13-C14 |
| 27 | 5 | 321 | LHG | C28-C29-C30-C31 |
| 25 | B | 803 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 815 | CLA | C3A-C2A-CAA-CBA |
| 25 | R | 604 | CLA | C3A-C2A-CAA-CBA |
| 25 | 5 | 324 | CLA | C3A-C2A-CAA-CBA |
| 25 | 8 | 302 | CLA | C3A-C2A-CAA-CBA |
| 25 | A | 838 | CLA | C13-C15-C16-C17 |
| 25 | A | 832 | CLA | C16-C17-C18-C19 |
| 25 | 3 | 302 | CLA | C16-C17-C18-C19 |
| 31 | B | 850 | SQD | O47-C7-C8-C9 |
| 32 | 6 | 602 | LMG | C29-C30-C31-C32 |
| 27 | S | 319 | LHG | C16-C17-C18-C19 |
| 25 | B | 826 | CLA | C4-C3-C5-C6 |
| 25 | L | 205 | CLA | C4-C3-C5-C6 |
| 32 | 6 | 602 | LMG | C12-C13-C14-C15 |
| 25 | 1 | 608 | CLA | C2-C3-C5-C6 |
| 25 | 7 | 302 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 810 | CLA | C11-C10-C8-C9 |
| 25 | A | 818 | CLA | C14-C13-C15-C16 |
| 25 | L | 205 | CLA | C11-C10-C8-C9 |
| 25 | P | 603 | CLA | C11-C12-C13-C14 |
| 25 | Q | 603 | CLA | C11-C12-C13-C14 |
| 25 | R | 610 | CLA | C14-C13-C15-C16 |
| 25 | S | 320 | CLA | C11-C12-C13-C14 |
| 25 | U | 302 | CLA | C6-C7-C8-C9 |
| 25 | U | 303 | CLA | C11-C12-C13-C14 |
| 25 | 5 | 302 | CLA | C11-C10-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 822 | CLA | C13-C15-C16-C17 |
| 30 | B | 846 | DGD | CEA-CFA-CGA-CHA |
| 28 | A | 849 | BCR | C11-C10-C9-C34 |
| 28 | A | 849 | BCR | C16-C17-C18-C36 |
| 28 | B | 842 | BCR | C11-C10-C9-C34 |
| 28 | B | 842 | BCR | C20-C21-C22-C37 |
| 28 | F | 803 | BCR | C35-C13-C14-C15 |
| 28 | L | 204 | BCR | C11-C10-C9-C34 |
| 28 | 3 | 318 | BCR | C35-C13-C14-C15 |
| 28 | 3 | 318 | BCR | C16-C17-C18-C36 |
| 28 | 3 | 319 | BCR | C35-C13-C14-C15 |
| 28 | 3 | 319 | BCR | C16-C17-C18-C36 |
| 28 | 4 | 321 | BCR | C20-C21-C22-C37 |
| 30 | B | 846 | DGD | C1G-C2G-C3G-O3G |
| 36 | P | 617 | NEX | C39-C29-C30-C31 |
| 36 | P | 621 | NEX | C39-C29-C30-C31 |
| 36 | R | 617 | NEX | C39-C29-C30-C31 |
| 36 | T | 616 | NEX | C39-C29-C30-C31 |
| 36 | U | 301 | NEX | C39-C29-C30-C31 |
| 36 | U | 316 | NEX | C39-C29-C30-C31 |
| 25 | T | 603 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 302 | CLA | C2A-CAA-CBA-CGA |
| 33 | P | 606 | CHL | C2A-CAA-CBA-CGA |
| 27 | A | 852 | LHG | C13-C14-C15-C16 |
| 27 | Q | 617 | LHG | C13-C14-C15-C16 |
| 25 | R | 611 | CLA | C11-C12-C13-C14 |
| 25 | S | 311 | CLA | C11-C12-C13-C15 |
| 25 | B | 836 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 824 | CLA | C2C-C3C-CAC-CBC |
| 25 | a | 306 | CLA | C3-C5-C6-C7 |
| 25 | B | 824 | CLA | CBD-CGD-O2D-CED |
| 27 | P | 624 | LHG | C31-C32-C33-C34 |
| 32 | 7 | 318 | LMG | C7-C8-O7-C10 |
| 25 | B | 815 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 830 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 837 | CLA | C1A-C2A-CAA-CBA |
| 25 | R | 604 | CLA | C1A-C2A-CAA-CBA |
| 25 | S | 315 | CLA | C1A-C2A-CAA-CBA |
| 25 | 3 | 305 | CLA | C1A-C2A-CAA-CBA |
| 25 | 5 | 319 | CLA | C1A-C2A-CAA-CBA |
| 25 | 5 | 324 | CLA | C1A-C2A-CAA-CBA |
| 25 | 8 | 302 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 8 | 311 | CLA | C1A-C2A-CAA-CBA |
| 33 | 6 | 606 | CHL | C1A-C2A-CAA-CBA |
| 33 | 6 | 608 | CHL | C1A-C2A-CAA-CBA |
| 33 | 7 | 305 | CHL | C1A-C2A-CAA-CBA |
| 25 | A | 814 | CLA | C11-C10-C8-C7 |
| 25 | B | 824 | CLA | C11-C12-C13-C15 |
| 25 | B | 826 | CLA | C11-C10-C8-C7 |
| 25 | L | 201 | CLA | C11-C10-C8-C7 |
| 25 | P | 612 | CLA | C6-C7-C8-C10 |
| 25 | R | 612 | CLA | C6-C7-C8-C10 |
| 25 | 1 | 603 | CLA | C11-C12-C13-C15 |
| 25 | 2 | 304 | CLA | C12-C13-C15-C16 |
| 25 | 6 | 601 | CLA | C2-C3-C5-C6 |
| 25 | 7 | 308 | CLA | C11-C10-C8-C7 |
| 25 | 1 | 609 | CLA | C8-C10-C11-C12 |
| 32 | 2 | 301 | LMG | C4-C5-C6-O5 |
| 25 | A | 834 | CLA | CAA-CBA-CGA-O1A |
| 34 | S | 316 | LUT | C33-C34-C35-C15 |
| 35 | T | 615 | XAT | C9-C10-C11-C12 |
| 33 | P | 605 | CHL | C3C-C2C-CMC-OMC |
| 33 | Q | 605 | CHL | C3C-C2C-CMC-OMC |
| 33 | T | 604 | CHL | C3C-C2C-CMC-OMC |
| 33 | U | 308 | CHL | C3C-C2C-CMC-OMC |
| 25 | B | 834 | CLA | C3-C5-C6-C7 |
| 25 | 1 | 612 | CLA | C3-C5-C6-C7 |
| 33 | T | 607 | CHL | O1D-CGD-O2D-CED |
| 25 | B | 811 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 815 | CLA | C2A-CAA-CBA-CGA |
| 25 | 1 | 612 | CLA | C2A-CAA-CBA-CGA |
| 33 | T | 605 | CHL | C2A-CAA-CBA-CGA |
| 33 | U | 306 | CHL | C2A-CAA-CBA-CGA |
| 25 | A | 801 | CLA | C5-C6-C7-C8 |
| 25 | A | 807 | CLA | C10-C11-C12-C13 |
| 25 | P | 602 | CLA | C10-C11-C12-C13 |
| 33 | U | 306 | CHL | O1A-CGA-O2A-C1 |
| 25 | A | 828 | CLA | CAA-CBA-CGA-O2A |
| 25 | B | 815 | CLA | CAA-CBA-CGA-O2A |
| 25 | 7 | 303 | CLA | CBA-CGA-O2A-C1 |
| 27 | 8 | 319 | LHG | C13-C14-C15-C16 |
| 33 | U | 309 | CHL | C4C-C3C-CAC-CBC |
| 32 | H | 204 | LMG | C32-C33-C34-C35 |
| 27 | A | 844 | LHG | C8-C7-O7-C5 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 1 | 607 | CLA | C3-C5-C6-C7 |
| 25 | Q | 602 | CLA | C10-C11-C12-C13 |
| 25 | A | 806 | CLA | C4-C3-C5-C6 |
| 32 | 1 | 619 | LMG | C12-C13-C14-C15 |
| 25 | B | 805 | CLA | C2-C3-C5-C6 |
| 25 | 7 | 303 | CLA | C2-C3-C5-C6 |
| 25 | a | 307 | CLA | C2-C3-C5-C6 |
| 27 | P | 618 | LHG | C31-C32-C33-C34 |
| 25 | A | 832 | CLA | C16-C17-C18-C20 |
| 28 | A | 849 | BCR | C11-C10-C9-C8 |
| 28 | A | 849 | BCR | C16-C17-C18-C19 |
| 28 | B | 842 | BCR | C11-C10-C9-C8 |
| 28 | B | 842 | BCR | C20-C21-C22-C23 |
| 28 | F | 803 | BCR | C12-C13-C14-C15 |
| 28 | L | 204 | BCR | C11-C10-C9-C8 |
| 28 | 3 | 318 | BCR | C12-C13-C14-C15 |
| 28 | 3 | 318 | BCR | C16-C17-C18-C19 |
| 28 | 3 | 319 | BCR | C12-C13-C14-C15 |
| 28 | 3 | 319 | BCR | C16-C17-C18-C19 |
| 28 | 4 | 321 | BCR | C20-C21-C22-C23 |
| 36 | P | 617 | NEX | C28-C29-C30-C31 |
| 36 | P | 621 | NEX | C28-C29-C30-C31 |
| 36 | R | 617 | NEX | C28-C29-C30-C31 |
| 36 | T | 616 | NEX | C28-C29-C30-C31 |
| 36 | U | 301 | NEX | C28-C29-C30-C31 |
| 36 | U | 316 | NEX | C28-C29-C30-C31 |
| 27 | 4 | 319 | LHG | O7-C5-C6-O8 |
| 32 | H | 204 | LMG | O7-C8-C9-O8 |
| 25 | B | 838 | CLA | CBA-CGA-O2A-C1 |
| 25 | 5 | 309 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 825 | CLA | C2C-C3C-CAC-CBC |
| 27 | T | 617 | LHG | C31-C32-C33-C34 |
| 28 | G | 203 | BCR | C9-C10-C11-C12 |
| 28 | J | 101 | BCR | C19-C20-C21-C22 |
| 35 | P | 620 | XAT | C29-C30-C31-C32 |
| 35 | Q | 616 | XAT | C29-C30-C31-C32 |
| 35 | T | 615 | XAT | C29-C30-C31-C32 |
| 25 | 7 | 303 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 807 | CLA | C16-C17-C18-C20 |
| 25 | Q | 612 | CLA | C11-C12-C13-C14 |
| 27 | R | 618 | LHG | C31-C32-C33-C34 |
| 27 | 4 | 319 | LHG | C9-C10-C11-C12 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | T | 607 | CHL | CBD-CGD-O2D-CED |
| 25 | B | 838 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 608 | CLA | O1A-CGA-O2A-C1 |
| 33 | P | 606 | CHL | O1A-CGA-O2A-C1 |
| 27 | S | 319 | LHG | C1-C2-C3-O3 |
| 25 | A | 834 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 805 | CLA | C3-C5-C6-C7 |
| 25 | B | 808 | CLA | C4-C3-C5-C6 |
| 33 | 1 | 606 | CHL | C2-C1-O2A-CGA |
| 25 | A | 804 | CLA | C2-C1-O2A-CGA |
| 25 | A | 836 | CLA | C2-C1-O2A-CGA |
| 25 | B | 802 | CLA | C2-C1-O2A-CGA |
| 25 | B | 826 | CLA | C2-C1-O2A-CGA |
| 25 | a | 302 | CLA | C2-C1-O2A-CGA |
| 33 | P | 606 | CHL | C2-C1-O2A-CGA |
| 33 | Q | 606 | CHL | C2-C1-O2A-CGA |
| 33 | R | 606 | CHL | C2-C1-O2A-CGA |
| 33 | S | 307 | CHL | C2-C1-O2A-CGA |
| 33 | S | 309 | CHL | C2-C1-O2A-CGA |
| 33 | U | 306 | CHL | C2-C1-O2A-CGA |
| 33 | 4 | 322 | CHL | C2-C1-O2A-CGA |
| 25 | 8 | 315 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 829 | CLA | C2-C3-C5-C6 |
| 33 | a | 305 | CHL | C2-C1-O2A-CGA |
| 33 | R | 606 | CHL | O1A-CGA-O2A-C1 |
| 33 | T | 605 | CHL | O1A-CGA-O2A-C1 |
| 25 | A | 807 | CLA | C11-C10-C8-C9 |
| 25 | A | 837 | CLA | C14-C13-C15-C16 |
| 25 | B | 807 | CLA | C14-C13-C15-C16 |
| 25 | P | 602 | CLA | C6-C7-C8-C9 |
| 25 | S | 313 | CLA | C11-C10-C8-C9 |
| 25 | T | 602 | CLA | C6-C7-C8-C9 |
| 25 | 5 | 302 | CLA | C6-C7-C8-C9 |
| 25 | 6 | 603 | CLA | C14-C13-C15-C16 |
| 25 | U | 310 | CLA | C15-C16-C17-C18 |
| 33 | Q | 606 | CHL | O1A-CGA-O2A-C1 |
| 33 | Q | 608 | CHL | C2C-C3C-CAC-CBC |
| 33 | S | 310 | CHL | C4-C3-C5-C6 |
| 33 | T | 607 | CHL | C4-C3-C5-C6 |
| 25 | 3 | 309 | CLA | O1D-CGD-O2D-CED |
| 27 | B | 847 | LHG | O2-C2-C3-O3 |
| 33 | R | 609 | CHL | C2C-C3C-CAC-CBC |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | Q | 606 | CHL | C2A-CAA-CBA-CGA |
| 25 | T | 611 | CLA | C11-C12-C13-C14 |
| 25 | A | 829 | CLA | O1A-CGA-O2A-C1 |
| 25 | 4 | 303 | CLA | O1A-CGA-O2A-C1 |
| 28 | B | 840 | BCR | C23-C24-C25-C30 |
| 28 | O | 204 | BCR | C1-C6-C7-C8 |
| 28 | 3 | 319 | BCR | C1-C6-C7-C8 |
| 28 | 4 | 317 | BCR | C1-C6-C7-C8 |
| 28 | 4 | 317 | BCR | C5-C6-C7-C8 |
| 28 | 8 | 301 | BCR | C23-C24-C25-C30 |
| 34 | R | 615 | LUT | C1-C6-C7-C8 |
| 34 | R | 615 | LUT | C5-C6-C7-C8 |
| 34 | S | 316 | LUT | C1-C6-C7-C8 |
| 34 | S | 317 | LUT | C1-C6-C7-C8 |
| 34 | 6 | 619 | LUT | C1-C6-C7-C8 |
| 34 | 6 | 622 | LUT | C1-C6-C7-C8 |
| 34 | 8 | 316 | LUT | C1-C6-C7-C8 |
| 34 | 8 | 317 | LUT | C1-C6-C7-C8 |
| 34 | 9 | 312 | LUT | C5-C6-C7-C8 |
| 26 | A | 841 | PQN | C18-C20-C21-C22 |
| 25 | 8 | 304 | CLA | CAA-CBA-CGA-O2A |
| 27 | 7 | 317 | LHG | O1-C1-C2-C3 |
| 27 | 8 | 319 | LHG | O1-C1-C2-C3 |
| 35 | P | 616 | XAT | C9-C10-C11-C12 |
| 25 | Q | 612 | CLA | CBA-CGA-O2A-C1 |
| 33 | P | 609 | CHL | C2C-C3C-CAC-CBC |
| 25 | A | 805 | CLA | C4-C3-C5-C6 |
| 25 | B | 815 | CLA | C4-C3-C5-C6 |
| 25 | 5 | 312 | CLA | C4-C3-C5-C6 |
| 25 | 7 | 304 | CLA | C1A-C2A-CAA-CBA |
| 28 | A | 846 | BCR | C7-C8-C9-C10 |
| 34 | 4 | 316 | LUT | C11-C12-C13-C14 |
| 35 | Q | 616 | XAT | C7-C8-C9-C10 |
| 35 | T | 615 | XAT | C7-C8-C9-C10 |
| 36 | R | 617 | NEX | C11-C12-C13-C14 |
| 25 | A | 837 | CLA | C2-C3-C5-C6 |
| 25 | B | 810 | CLA | C2-C3-C5-C6 |
| 25 | 3 | 307 | CLA | CAA-CBA-CGA-O2A |
| 25 | L | 205 | CLA | C13-C15-C16-C17 |
| 25 | T | 602 | CLA | C10-C11-C12-C13 |
| 32 | 4 | 320 | LMG | C8-C7-O1-C1 |
| 25 | Q | 612 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | A | 809 | CLA | C8-C10-C11-C12 |
| 25 | 4 | 308 | CLA | C10-C11-C12-C13 |
| 25 | L | 206 | CLA | O1D-CGD-O2D-CED |
| 25 | R | 611 | CLA | CAA-CBA-CGA-O1A |
| 33 | R | 605 | CHL | CAA-CBA-CGA-O2A |
| 25 | B | 803 | CLA | C2A-CAA-CBA-CGA |
| 25 | 3 | 307 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 801 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 829 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 837 | CLA | CBA-CGA-O2A-C1 |
| 33 | R | 606 | CHL | CBA-CGA-O2A-C1 |
| 27 | Q | 617 | LHG | C31-C32-C33-C34 |
| 25 | 3 | 312 | CLA | CAA-CBA-CGA-O1A |
| 25 | 3 | 307 | CLA | O1A-CGA-O2A-C1 |
| 26 | B | 839 | PQN | C14-C13-C15-C16 |
| 25 | A | 807 | CLA | C11-C10-C8-C7 |
| 25 | A | 812 | CLA | C12-C13-C15-C16 |
| 25 | B | 825 | CLA | C12-C13-C15-C16 |
| 25 | L | 205 | CLA | C2-C3-C5-C6 |
| 25 | P | 602 | CLA | C6-C7-C8-C10 |
| 25 | R | 610 | CLA | C12-C13-C15-C16 |
| 25 | T | 602 | CLA | C6-C7-C8-C10 |
| 25 | U | 302 | CLA | C6-C7-C8-C10 |
| 25 | 5 | 302 | CLA | C6-C7-C8-C10 |
| 25 | 7 | 301 | CLA | C11-C12-C13-C15 |
| 25 | K | 204 | CLA | CAA-CBA-CGA-O2A |
| 25 | B | 836 | CLA | CBA-CGA-O2A-C1 |
| 33 | P | 606 | CHL | CBA-CGA-O2A-C1 |
| 33 | U | 306 | CHL | CBA-CGA-O2A-C1 |
| 25 | A | 818 | CLA | C8-C10-C11-C12 |
| 25 | A | 827 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 836 | CLA | O1A-CGA-O2A-C1 |
| 27 | A | 843 | LHG | C16-C17-C18-C19 |
| 27 | A | 852 | LHG | C11-C12-C13-C14 |
| 25 | a | 303 | CLA | C1-C2-C3-C4 |
| 25 | a | 302 | CLA | CAA-CBA-CGA-O2A |
| 25 | B | 807 | CLA | C16-C17-C18-C19 |
| 25 | B | 837 | CLA | O1A-CGA-O2A-C1 |
| 25 | 4 | 303 | CLA | CBA-CGA-O2A-C1 |
| 25 | 9 | 309 | CLA | CBA-CGA-O2A-C1 |
| 33 | T | 605 | CHL | CBA-CGA-O2A-C1 |
| 25 | 3 | 314 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 32 | J | 102 | LMG | C33-C34-C35-C36 |
| 32 | J | 104 | LMG | C30-C31-C32-C33 |
| 25 | S | 313 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 603 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 614 | CLA | CAA-CBA-CGA-O2A |
| 25 | a | 313 | CLA | CAA-CBA-CGA-O2A |
| 27 | 8 | 319 | LHG | O8-C23-C24-C25 |
| 30 | B | 848 | DGD | C4A-C5A-C6A-C7A |
| 25 | A | 812 | CLA | C16-C17-C18-C20 |
| 25 | B | 811 | CLA | C16-C17-C18-C19 |
| 25 | 4 | 308 | CLA | C11-C12-C13-C14 |
| 25 | B | 834 | CLA | O1D-CGD-O2D-CED |
| 30 | B | 846 | DGD | C6B-C7B-C8B-C9B |
| 25 | 3 | 312 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 827 | CLA | CBA-CGA-O2A-C1 |
| 33 | Q | 606 | CHL | CBA-CGA-O2A-C1 |
| 27 | T | 617 | LHG | C13-C14-C15-C16 |
| 25 | a | 310 | CLA | CAA-CBA-CGA-O2A |
| 27 | 6 | 618 | LHG | O8-C23-C24-C25 |
| 33 | 6 | 606 | CHL | C4-C3-C5-C6 |
| 25 | A | 806 | CLA | C2-C3-C5-C6 |
| 25 | 5 | 311 | CLA | C2-C3-C5-C6 |
| 27 | 1 | 618 | LHG | O7-C7-C8-C9 |
| 25 | A | 809 | CLA | C6-C7-C8-C9 |
| 25 | B | 804 | CLA | C6-C7-C8-C9 |
| 25 | B | 809 | CLA | C6-C7-C8-C9 |
| 25 | B | 824 | CLA | C11-C12-C13-C14 |
| 25 | B | 830 | CLA | C11-C10-C8-C9 |
| 25 | B | 834 | CLA | C11-C12-C13-C14 |
| 25 | R | 603 | CLA | C11-C12-C13-C14 |
| 25 | S | 312 | CLA | C6-C7-C8-C9 |
| 25 | 1 | 602 | CLA | C6-C7-C8-C9 |
| 25 | 6 | 605 | CLA | C11-C10-C8-C9 |
| 25 | 6 | 605 | CLA | C14-C13-C15-C16 |
| 25 | a | 301 | CLA | C6-C7-C8-C9 |
| 33 | P | 609 | CHL | C11-C12-C13-C14 |
| 33 | Q | 608 | CHL | C11-C12-C13-C14 |
| 33 | R | 609 | CHL | C11-C12-C13-C14 |
| 27 | A | 843 | LHG | C26-C27-C28-C29 |
| 25 | A | 853 | CLA | C3A-C2A-CAA-CBA |
| 25 | B | 834 | CLA | C3A-C2A-CAA-CBA |
| 25 | S | 314 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | 6 | 606 | CHL | C3A-C2A-CAA-CBA |
| 33 | 6 | 608 | CHL | C3A-C2A-CAA-CBA |
| 25 | P | 603 | CLA | CAA-CBA-CGA-O2A |
| 25 | 3 | 310 | CLA | CAA-CBA-CGA-O2A |
| 27 | a | 317 | LHG | O7-C7-C8-C9 |
| 33 | 9 | 307 | CHL | CAA-CBA-CGA-O2A |
| 25 | A | 807 | CLA | CAD-CBD-CGD-O2D |
| 25 | A | 831 | CLA | CAD-CBD-CGD-O2D |
| 25 | A | 837 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 808 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 818 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 822 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 823 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 827 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 828 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 834 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 835 | CLA | CAD-CBD-CGD-O2D |
| 25 | B | 838 | CLA | CAD-CBD-CGD-O2D |
| 25 | K | 205 | CLA | CAD-CBD-CGD-O2D |
| 25 | L | 201 | CLA | CAD-CBD-CGD-O2D |
| 25 | R | 604 | CLA | CAD-CBD-CGD-O2D |
| 25 | 1 | 603 | CLA | CAD-CBD-CGD-O2D |
| 25 | 1 | 605 | CLA | CAD-CBD-CGD-O2D |
| 25 | 3 | 310 | CLA | CAD-CBD-CGD-O2D |
| 25 | 4 | 302 | CLA | CAD-CBD-CGD-O2D |
| 25 | 4 | 308 | CLA | CAD-CBD-CGD-O2D |
| 25 | 4 | 312 | CLA | CAD-CBD-CGD-O2D |
| 25 | 5 | 303 | CLA | CAD-CBD-CGD-O2D |
| 25 | 5 | 313 | CLA | CAD-CBD-CGD-O2D |
| 25 | 6 | 605 | CLA | CAD-CBD-CGD-O2D |
| 25 | 7 | 304 | CLA | CAD-CBD-CGD-O2D |
| 25 | 7 | 310 | CLA | CAD-CBD-CGD-O2D |
| 25 | 7 | 312 | CLA | CAD-CBD-CGD-O2D |
| 25 | 9 | 302 | CLA | CAD-CBD-CGD-O2D |
| 25 | 9 | 305 | CLA | CAD-CBD-CGD-O2D |
| 25 | a | 302 | CLA | CAD-CBD-CGD-O2D |
| 25 | a | 303 | CLA | CAD-CBD-CGD-O2D |
| 25 | a | 304 | CLA | CAD-CBD-CGD-O2D |
| 33 | S | 306 | CHL | CAD-CBD-CGD-O2D |
| 33 | 9 | 306 | CHL | CAD-CBD-CGD-O2D |
| 32 | J | 107 | LMG | C29-C30-C31-C32 |
| 33 | U | 305 | CHL | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | B | 835 | CLA | CAA-CBA-CGA-O2A |
| 25 | T | 609 | CLA | CAA-CBA-CGA-O2A |
| 27 | 2 | 317 | LHG | C29-C30-C31-C32 |
| 30 | B | 846 | DGD | C7B-C8B-C9B-CAB |
| 31 | B | 850 | SQD | C25-C26-C27-C28 |
| 25 | B | 814 | CLA | C3-C5-C6-C7 |
| 25 | A | 810 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 611 | CLA | CAA-CBA-CGA-O2A |
| 25 | 2 | 304 | CLA | CAA-CBA-CGA-O2A |
| 25 | 5 | 309 | CLA | CAA-CBA-CGA-O2A |
| 30 | B | 848 | DGD | C8B-C9B-CAB-CBB |
| 28 | B | 840 | BCR | C21-C22-C23-C24 |
| 28 | B | 842 | BCR | C7-C8-C9-C10 |
| 28 | I | 201 | BCR | C7-C8-C9-C10 |
| 28 | 6 | 621 | BCR | C11-C12-C13-C14 |
| 36 | P | 617 | NEX | O24-C26-C27-C28 |
| 36 | R | 617 | NEX | O24-C26-C27-C28 |
| 36 | T | 616 | NEX | O24-C26-C27-C28 |
| 36 | U | 301 | NEX | O24-C26-C27-C28 |
| 36 | U | 316 | NEX | O24-C26-C27-C28 |
| 27 | P | 624 | LHG | C13-C14-C15-C16 |
| 27 | A | 852 | LHG | O6-C4-C5-O7 |
| 25 | B | 830 | CLA | C13-C15-C16-C17 |
| 25 | A | 806 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 823 | CLA | CAA-CBA-CGA-O2A |
| 25 | R | 603 | CLA | CAA-CBA-CGA-O2A |
| 33 | R | 606 | CHL | O2A-C1-C2-C3 |
| 25 | 8 | 304 | CLA | CAA-CBA-CGA-O1A |
| 27 | P | 618 | LHG | C13-C14-C15-C16 |
| 25 | A | 806 | CLA | O2A-C1-C2-C3 |
| 25 | A | 851 | CLA | O2A-C1-C2-C3 |
| 25 | P | 603 | CLA | O2A-C1-C2-C3 |
| 25 | Q | 603 | CLA | O2A-C1-C2-C3 |
| 25 | R | 603 | CLA | O2A-C1-C2-C3 |
| 25 | S | 320 | CLA | O2A-C1-C2-C3 |
| 25 | U | 303 | CLA | O2A-C1-C2-C3 |
| 25 | 9 | 305 | CLA | O2A-C1-C2-C3 |
| 33 | P | 607 | CHL | O2A-C1-C2-C3 |
| 33 | P | 619 | CHL | O2A-C1-C2-C3 |
| 33 | R | 607 | CHL | O2A-C1-C2-C3 |
| 33 | S | 308 | CHL | O2A-C1-C2-C3 |
| 33 | S | 321 | CHL | O2A-C1-C2-C3 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 33 | U | 307 | CHL | O2A-C1-C2-C3 |
| 33 | 6 | 608 | CHL | O2A-C1-C2-C3 |
| 27 | 8 | 319 | LHG | C27-C28-C29-C30 |
| 25 | A | 813 | CLA | C6-C7-C8-C9 |
| 25 | J | 103 | CLA | CAA-CBA-CGA-O2A |
| 25 | U | 303 | CLA | CAA-CBA-CGA-O2A |
| 25 | 4 | 302 | CLA | CAA-CBA-CGA-O2A |
| 25 | 7 | 313 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 809 | CLA | C13-C15-C16-C17 |
| 25 | A | 804 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 804 | CLA | CHA-CBD-CGD-O2D |
| 25 | A | 835 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 837 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 851 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 851 | CLA | CHA-CBD-CGD-O2D |
| 25 | B | 819 | CLA | CHA-CBD-CGD-O1D |
| 25 | B | 819 | CLA | CHA-CBD-CGD-O2D |
| 25 | G | 202 | CLA | CHA-CBD-CGD-O2D |
| 25 | J | 103 | CLA | CHA-CBD-CGD-O1D |
| 25 | K | 202 | CLA | CHA-CBD-CGD-O2D |
| 25 | Q | 613 | CLA | CHA-CBD-CGD-O1D |
| 25 | Q | 613 | CLA | CHA-CBD-CGD-O2D |
| 25 | R | 614 | CLA | CHA-CBD-CGD-O1D |
| 25 | R | 614 | CLA | CHA-CBD-CGD-O2D |
| 25 | S | 301 | CLA | CHA-CBD-CGD-O1D |
| 25 | S | 301 | CLA | CHA-CBD-CGD-O2D |
| 25 | S | 303 | CLA | CHA-CBD-CGD-O2D |
| 25 | S | 304 | CLA | CHA-CBD-CGD-O2D |
| 25 | S | 305 | CLA | CHA-CBD-CGD-O2D |
| 25 | T | 612 | CLA | CHA-CBD-CGD-O1D |
| 25 | T | 612 | CLA | CHA-CBD-CGD-O2D |
| 25 | U | 313 | CLA | CHA-CBD-CGD-O1D |
| 25 | U | 313 | CLA | CHA-CBD-CGD-O2D |
| 25 | 1 | 612 | CLA | CHA-CBD-CGD-O2D |
| 25 | 2 | 304 | CLA | CHA-CBD-CGD-O2D |
| 25 | 2 | 311 | CLA | CHA-CBD-CGD-O1D |
| 25 | 2 | 311 | CLA | CHA-CBD-CGD-O2D |
| 25 | 3 | 301 | CLA | CHA-CBD-CGD-O1D |
| 25 | 3 | 301 | CLA | CHA-CBD-CGD-O2D |
| 25 | 3 | 314 | CLA | CHA-CBD-CGD-O1D |
| 25 | 3 | 314 | CLA | CHA-CBD-CGD-O2D |
| 25 | 4 | 303 | CLA | CHA-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 4 | 303 | CLA | CHA-CBD-CGD-O2D |
| 25 | 5 | 311 | CLA | CHA-CBD-CGD-O2D |
| 25 | 5 | 315 | CLA | CHA-CBD-CGD-O1D |
| 25 | 5 | 315 | CLA | CHA-CBD-CGD-O2D |
| 25 | 7 | 301 | CLA | CHA-CBD-CGD-O1D |
| 25 | 8 | 304 | CLA | CHA-CBD-CGD-O1D |
| 25 | 8 | 304 | CLA | CHA-CBD-CGD-O2D |
| 25 | 8 | 306 | CLA | CHA-CBD-CGD-O1D |
| 25 | 9 | 303 | CLA | CHA-CBD-CGD-O1D |
| 25 | 9 | 304 | CLA | CHA-CBD-CGD-O1D |
| 25 | 9 | 304 | CLA | CHA-CBD-CGD-O2D |
| 25 | 9 | 310 | CLA | CHA-CBD-CGD-O1D |
| 25 | 9 | 310 | CLA | CHA-CBD-CGD-O2D |
| 25 | a | 301 | CLA | CHA-CBD-CGD-O1D |
| 33 | P | 607 | CHL | CHA-CBD-CGD-O1D |
| 33 | P | 607 | CHL | CHA-CBD-CGD-O2D |
| 33 | P | 619 | CHL | CHA-CBD-CGD-O1D |
| 33 | P | 619 | CHL | CHA-CBD-CGD-O2D |
| 33 | R | 607 | CHL | CHA-CBD-CGD-O1D |
| 33 | R | 607 | CHL | CHA-CBD-CGD-O2D |
| 33 | S | 309 | CHL | CHA-CBD-CGD-O1D |
| 33 | S | 309 | CHL | CHA-CBD-CGD-O2D |
| 33 | S | 321 | CHL | CHA-CBD-CGD-O1D |
| 33 | S | 321 | CHL | CHA-CBD-CGD-O2D |
| 33 | U | 307 | CHL | CHA-CBD-CGD-O1D |
| 33 | U | 307 | CHL | CHA-CBD-CGD-O2D |
| 33 | 6 | 608 | CHL | CHA-CBD-CGD-O1D |
| 33 | 6 | 608 | CHL | CHA-CBD-CGD-O2D |
| 35 | P | 616 | XAT | C29-C30-C31-C32 |
| 33 | U | 305 | CHL | CAA-CBA-CGA-O1A |
| 25 | S | 320 | CLA | CAA-CBA-CGA-O2A |
| 25 | 9 | 309 | CLA | CAA-CBA-CGA-O2A |
| 27 | A | 852 | LHG | O7-C7-C8-C9 |
| 25 | A | 805 | CLA | C2-C3-C5-C6 |
| 25 | K | 205 | CLA | CAA-CBA-CGA-O2A |
| 25 | Q | 603 | CLA | CAA-CBA-CGA-O2A |
| 25 | 6 | 616 | CLA | CAA-CBA-CGA-O2A |
| 25 | 9 | 304 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 831 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 610 | CLA | C4C-C3C-CAC-CBC |
| 33 | T | 607 | CHL | C4C-C3C-CAC-CBC |
| 25 | 2 | 303 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 4 | 311 | CLA | CAA-CBA-CGA-O2A |
| 27 | Q | 617 | LHG | O8-C23-C24-C25 |
| 27 | S | 319 | LHG | C15-C16-C17-C18 |
| 25 | B | 810 | CLA | C2A-CAA-CBA-CGA |
| 25 | 3 | 308 | CLA | C2A-CAA-CBA-CGA |
| 27 | a | 317 | LHG | C11-C10-C9-C8 |
| 25 | A | 831 | CLA | CBA-CGA-O2A-C1 |
| 25 | 3 | 307 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 818 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 826 | CLA | CAA-CBA-CGA-O2A |
| 25 | H | 203 | CLA | CAA-CBA-CGA-O2A |
| 25 | 9 | 305 | CLA | CAA-CBA-CGA-O2A |
| 33 | 5 | 307 | CHL | CAA-CBA-CGA-O2A |
| 25 | A | 818 | CLA | C6-C7-C8-C10 |
| 25 | B | 802 | CLA | C11-C12-C13-C15 |
| 25 | 7 | 311 | CLA | C6-C7-C8-C10 |
| 25 | B | 811 | CLA | C16-C17-C18-C20 |
| 25 | Q | 609 | CLA | C16-C17-C18-C19 |
| 27 | 5 | 301 | LHG | O8-C23-C24-C25 |
| 25 | A | 832 | CLA | C6-C7-C8-C9 |
| 25 | B | 826 | CLA | C11-C10-C8-C9 |
| 25 | B | 830 | CLA | C11-C12-C13-C14 |
| 25 | L | 201 | CLA | C11-C10-C8-C9 |
| 25 | U | 312 | CLA | C11-C12-C13-C14 |
| 25 | 1 | 603 | CLA | C11-C12-C13-C14 |
| 33 | T | 601 | CHL | O2A-C1-C2-C3 |
| 25 | 7 | 311 | CLA | CBA-CGA-O2A-C1 |
| 25 | 7 | 311 | CLA | O1A-CGA-O2A-C1 |
| 33 | R | 605 | CHL | CAA-CBA-CGA-O1A |
| 25 | A | 806 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 310 | CLA | C2A-CAA-CBA-CGA |
| 25 | a | 313 | CLA | CAA-CBA-CGA-O1A |
| 25 | a | 309 | CLA | C4C-C3C-CAC-CBC |
| 25 | A | 814 | CLA | CAA-CBA-CGA-O2A |
| 25 | B | 818 | CLA | CBA-CGA-O2A-C1 |
| 28 | B | 840 | BCR | C36-C18-C19-C20 |
| 25 | A | 823 | CLA | CAA-CBA-CGA-O1A |
| 25 | 1 | 611 | CLA | CAA-CBA-CGA-O1A |
| 25 | a | 310 | CLA | CAA-CBA-CGA-O1A |
| 25 | B | 805 | CLA | C16-C17-C18-C19 |
| 25 | S | 312 | CLA | C4-C3-C5-C6 |
| 25 | K | 204 | CLA | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 4 | 312 | CLA | CAA-CBA-CGA-O2A |
| 27 | a | 317 | LHG | O9-C7-C8-C9 |
| 25 | A | 814 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 825 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 826 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 851 | CLA | C1A-C2A-CAA-CBA |
| 25 | A | 853 | CLA | C1A-C2A-CAA-CBA |
| 25 | B | 803 | CLA | C1A-C2A-CAA-CBA |
| 25 | S | 314 | CLA | C1A-C2A-CAA-CBA |
| 25 | 2 | 303 | CLA | C1A-C2A-CAA-CBA |
| 25 | 4 | 310 | CLA | C1A-C2A-CAA-CBA |
| 25 | 6 | 613 | CLA | C1A-C2A-CAA-CBA |
| 25 | 7 | 313 | CLA | C1A-C2A-CAA-CBA |
| 25 | 9 | 309 | CLA | C1A-C2A-CAA-CBA |
| 25 | a | 309 | CLA | C1A-C2A-CAA-CBA |
| 33 | 4 | 306 | CHL | C1A-C2A-CAA-CBA |
| 25 | 1 | 603 | CLA | CAA-CBA-CGA-O1A |
| 25 | 3 | 310 | CLA | CAA-CBA-CGA-O1A |
| 25 | a | 302 | CLA | CAA-CBA-CGA-O1A |
| 25 | 5 | 314 | CLA | CAA-CBA-CGA-O2A |
| 25 | 9 | 309 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 808 | CLA | C2-C1-O2A-CGA |
| 33 | T | 605 | CHL | C2-C1-O2A-CGA |
| 25 | 1 | 614 | CLA | CAA-CBA-CGA-O1A |
| 25 | 9 | 309 | CLA | CAA-CBA-CGA-O1A |
| 27 | 6 | 618 | LHG | O10-C23-C24-C25 |
| 25 | a | 301 | CLA | CAA-CBA-CGA-O2A |
| 25 | H | 203 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 309 | CLA | C2A-CAA-CBA-CGA |
| 25 | 8 | 315 | CLA | C2A-CAA-CBA-CGA |
| 25 | L | 206 | CLA | CBD-CGD-O2D-CED |
| 32 | J | 104 | LMG | C29-C30-C31-C32 |
| 25 | B | 830 | CLA | C16-C17-C18-C20 |
| 25 | P | 603 | CLA | CAA-CBA-CGA-O1A |
| 27 | 1 | 618 | LHG | O9-C7-C8-C9 |
| 33 | 9 | 307 | CHL | CAA-CBA-CGA-O1A |
| 25 | 5 | 319 | CLA | C4C-C3C-CAC-CBC |
| 31 | B | 850 | SQD | C34-C35-C36-C37 |
| 25 | S | 313 | CLA | CAA-CBA-CGA-O1A |
| 25 | 4 | 311 | CLA | CAA-CBA-CGA-O1A |
| 25 | 5 | 324 | CLA | C2-C3-C5-C6 |
| 25 | 8 | 312 | CLA | C2-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 6 | 614 | CLA | CAA-CBA-CGA-O2A |
| 27 | 1 | 618 | LHG | C3-O3-P-O5 |
| 27 | 1 | 618 | LHG | C4-O6-P-O5 |
| 27 | 4 | 318 | LHG | C4-O6-P-O5 |
| 27 | 4 | 319 | LHG | C3-O3-P-O5 |
| 27 | 6 | 618 | LHG | C4-O6-P-O4 |
| 27 | a | 317 | LHG | C3-O3-P-O5 |
| 27 | a | 317 | LHG | C4-O6-P-O5 |
| 25 | 3 | 308 | CLA | O1D-CGD-O2D-CED |
| 33 | P | 609 | CHL | C4C-C3C-CAC-CBC |
| 33 | Q | 608 | CHL | C4C-C3C-CAC-CBC |
| 33 | R | 609 | CHL | C4C-C3C-CAC-CBC |
| 25 | A | 806 | CLA | CAA-CBA-CGA-O1A |
| 25 | A | 810 | CLA | CAA-CBA-CGA-O1A |
| 25 | S | 320 | CLA | CAA-CBA-CGA-O1A |
| 25 | T | 609 | CLA | CAA-CBA-CGA-O1A |
| 25 | 6 | 616 | CLA | CAA-CBA-CGA-O1A |
| 25 | 7 | 313 | CLA | CAA-CBA-CGA-O1A |
| 25 | 9 | 304 | CLA | CAA-CBA-CGA-O1A |
| 25 | K | 205 | CLA | CAA-CBA-CGA-O1A |
| 28 | B | 840 | BCR | C23-C24-C25-C26 |
| 28 | 3 | 319 | BCR | C5-C6-C7-C8 |
| 34 | S | 316 | LUT | C5-C6-C7-C8 |
| 25 | B | 835 | CLA | CAA-CBA-CGA-O1A |
| 25 | J | 103 | CLA | CAA-CBA-CGA-O1A |
| 25 | Q | 603 | CLA | CAA-CBA-CGA-O1A |
| 25 | R | 603 | CLA | CAA-CBA-CGA-O1A |
| 25 | U | 303 | CLA | CAA-CBA-CGA-O1A |
| 25 | 5 | 309 | CLA | CAA-CBA-CGA-O1A |
| 27 | A | 852 | LHG | O9-C7-C8-C9 |
| 27 | 8 | 319 | LHG | O10-C23-C24-C25 |
| 25 | A | 816 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 602 | CLA | CAA-CBA-CGA-O2A |
| 25 | 8 | 312 | CLA | CAA-CBA-CGA-O2A |
| 27 | P | 618 | LHG | O8-C23-C24-C25 |
| 27 | P | 624 | LHG | O8-C23-C24-C25 |
| 25 | 5 | 310 | CLA | C5-C6-C7-C8 |
| 25 | 5 | 319 | CLA | C2C-C3C-CAC-CBC |
| 33 | U | 309 | CHL | C2-C1-O2A-CGA |
| 25 | R | 613 | CLA | CBA-CGA-O2A-C1 |
| 25 | K | 201 | CLA | C2A-CAA-CBA-CGA |
| 25 | 2 | 304 | CLA | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 27 | Q | 617 | LHG | O10-C23-C24-C25 |
| 27 | T | 617 | LHG | O8-C23-C24-C25 |
| 27 | 7 | 317 | LHG | O8-C23-C24-C25 |
| 25 | 4 | 302 | CLA | CAA-CBA-CGA-O1A |
| 25 | B | 815 | CLA | C2-C3-C5-C6 |
| 25 | A | 807 | CLA | C16-C17-C18-C19 |
| 25 | A | 821 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 834 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 835 | CLA | CAD-CBD-CGD-O1D |
| 25 | A | 851 | CLA | CAD-CBD-CGD-O1D |
| 25 | K | 201 | CLA | C2-C3-C5-C6 |
| 25 | S | 314 | CLA | CAD-CBD-CGD-O1D |
| 25 | 2 | 308 | CLA | CAD-CBD-CGD-O1D |
| 25 | 5 | 315 | CLA | CAD-CBD-CGD-O1D |
| 25 | 7 | 308 | CLA | CAD-CBD-CGD-O1D |
| 25 | 8 | 304 | CLA | CAD-CBD-CGD-O1D |
| 25 | 9 | 303 | CLA | CAD-CBD-CGD-O1D |
| 32 | 7 | 318 | LMG | C9-C8-O7-C10 |
| 33 | 4 | 304 | CHL | CAD-CBD-CGD-O1D |
| 33 | 6 | 608 | CHL | CAD-CBD-CGD-O1D |
| 27 | 2 | 317 | LHG | C11-C10-C9-C8 |
| 25 | B | 806 | CLA | CAA-CBA-CGA-O2A |
| 25 | 6 | 601 | CLA | CAA-CBA-CGA-O2A |
| 27 | R | 618 | LHG | O8-C23-C24-C25 |
| 25 | A | 807 | CLA | C5-C6-C7-C8 |
| 25 | B | 802 | CLA | C11-C12-C13-C14 |
| 25 | 4 | 311 | CLA | C6-C7-C8-C9 |
| 25 | 7 | 311 | CLA | C11-C12-C13-C14 |
| 27 | R | 618 | LHG | C13-C14-C15-C16 |
| 25 | 5 | 309 | CLA | CBD-CGD-O2D-CED |
| 25 | R | 613 | CLA | O1A-CGA-O2A-C1 |
| 25 | L | 205 | CLA | C3-C5-C6-C7 |
| 25 | A | 822 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 840 | CLA | CAA-CBA-CGA-O2A |
| 25 | H | 201 | CLA | CAA-CBA-CGA-O2A |
| 25 | S | 314 | CLA | CAA-CBA-CGA-O2A |
| 25 | 3 | 314 | CLA | CAA-CBA-CGA-O2A |
| 25 | 5 | 312 | CLA | CAA-CBA-CGA-O2A |
| 30 | B | 848 | DGD | O2G-C1B-C2B-C3B |
| 33 | U | 307 | CHL | CAA-CBA-CGA-O2A |
| 33 | 8 | 307 | CHL | CAA-CBA-CGA-O2A |
| 25 | S | 304 | CLA | C13-C15-C16-C17 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 4 | 301 | CLA | C5-C6-C7-C8 |
| 27 | R | 618 | LHG | C28-C29-C30-C31 |
| 25 | H | 203 | CLA | CAA-CBA-CGA-O1A |
| 25 | A | 840 | CLA | C5-C6-C7-C8 |
| 25 | B | 807 | CLA | C2A-CAA-CBA-CGA |
| 25 | 4 | 308 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 805 | CLA | CAA-CBA-CGA-O2A |
| 25 | B | 822 | CLA | CAA-CBA-CGA-O2A |
| 25 | R | 610 | CLA | CAA-CBA-CGA-O2A |
| 25 | 4 | 301 | CLA | CAA-CBA-CGA-O2A |
| 25 | 9 | 302 | CLA | CAA-CBA-CGA-O2A |
| 33 | R | 601 | CHL | CAA-CBA-CGA-O2A |
| 33 | T | 601 | CHL | CAA-CBA-CGA-O2A |
| 33 | 3 | 306 | CHL | CAA-CBA-CGA-O2A |
| 25 | S | 312 | CLA | C8-C10-C11-C12 |
| 25 | 8 | 313 | CLA | C13-C15-C16-C17 |
| 25 | B | 826 | CLA | CAA-CBA-CGA-O1A |
| 25 | a | 301 | CLA | CAA-CBA-CGA-O1A |
| 27 | 4 | 318 | LHG | C29-C30-C31-C32 |
| 25 | A | 809 | CLA | C4-C3-C5-C6 |
| 25 | T | 609 | CLA | C4-C3-C5-C6 |
| 25 | B | 833 | CLA | C10-C11-C12-C13 |
| 25 | A | 808 | CLA | C6-C7-C8-C10 |
| 25 | A | 820 | CLA | C11-C10-C8-C7 |
| 25 | A | 830 | CLA | C6-C7-C8-C10 |
| 25 | A | 832 | CLA | C6-C7-C8-C10 |
| 25 | A | 837 | CLA | C12-C13-C15-C16 |
| 25 | A | 840 | CLA | C11-C10-C8-C7 |
| 25 | B | 802 | CLA | C12-C13-C15-C16 |
| 25 | B | 830 | CLA | C11-C10-C8-C7 |
| 25 | B | 849 | CLA | C3A-C2A-CAA-CBA |
| 25 | L | 201 | CLA | C11-C12-C13-C15 |
| 25 | R | 602 | CLA | C12-C13-C15-C16 |
| 25 | S | 313 | CLA | C11-C10-C8-C7 |
| 25 | U | 302 | CLA | C12-C13-C15-C16 |
| 25 | 1 | 604 | CLA | C2-C3-C5-C6 |
| 25 | 3 | 303 | CLA | C11-C10-C8-C7 |
| 25 | 3 | 314 | CLA | C6-C7-C8-C10 |
| 25 | 4 | 310 | CLA | C3A-C2A-CAA-CBA |
| 25 | 9 | 309 | CLA | C6-C7-C8-C10 |
| 33 | U | 308 | CHL | C3A-C2A-CAA-CBA |
| 25 | 2 | 303 | CLA | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 9 | 305 | CLA | CAA-CBA-CGA-O1A |
| 25 | A | 815 | CLA | CAA-CBA-CGA-O2A |
| 25 | P | 610 | CLA | CAA-CBA-CGA-O2A |
| 25 | Q | 609 | CLA | CAA-CBA-CGA-O2A |
| 25 | 2 | 311 | CLA | CAA-CBA-CGA-O2A |
| 25 | 5 | 311 | CLA | CAA-CBA-CGA-O2A |
| 25 | 9 | 310 | CLA | CAA-CBA-CGA-O2A |
| 33 | P | 601 | CHL | CAA-CBA-CGA-O2A |
| 33 | P | 607 | CHL | CAA-CBA-CGA-O2A |
| 33 | P | 619 | CHL | CAA-CBA-CGA-O2A |
| 33 | Q | 601 | CHL | CAA-CBA-CGA-O2A |
| 33 | R | 607 | CHL | CAA-CBA-CGA-O2A |
| 33 | S | 321 | CHL | CAA-CBA-CGA-O2A |
| 25 | 6 | 605 | CLA | C3-C5-C6-C7 |
| 28 | A | 845 | BCR | C7-C8-C9-C10 |
| 28 | 8 | 318 | BCR | C7-C8-C9-C10 |
| 34 | 4 | 315 | LUT | C11-C12-C13-C14 |
| 36 | U | 301 | NEX | C11-C12-C13-C14 |
| 25 | A | 814 | CLA | CAA-CBA-CGA-O1A |
| 33 | P | 601 | CHL | CAA-CBA-CGA-O1A |
| 33 | P | 607 | CHL | CAA-CBA-CGA-O1A |
| 33 | P | 619 | CHL | CAA-CBA-CGA-O1A |
| 33 | Q | 601 | CHL | CAA-CBA-CGA-O1A |
| 33 | R | 607 | CHL | CAA-CBA-CGA-O1A |
| 28 | L | 204 | BCR | C15-C16-C17-C18 |
| 35 | P | 623 | XAT | C29-C30-C31-C32 |
| 36 | P | 621 | NEX | C13-C14-C15-C35 |
| 25 | S | 304 | CLA | CAA-CBA-CGA-O2A |
| 25 | T | 608 | CLA | CAA-CBA-CGA-O2A |
| 25 | 3 | 305 | CLA | CAA-CBA-CGA-O2A |
| 33 | P | 622 | CHL | CAA-CBA-CGA-O2A |
| 25 | 3 | 314 | CLA | C5-C6-C7-C8 |
| 27 | A | 852 | LHG | C34-C35-C36-C37 |
| 25 | A | 815 | CLA | CAA-CBA-CGA-O1A |
| 25 | H | 201 | CLA | CAA-CBA-CGA-O1A |
| 25 | S | 314 | CLA | CAA-CBA-CGA-O1A |
| 25 | 1 | 602 | CLA | CAA-CBA-CGA-O1A |
| 25 | 5 | 311 | CLA | CAA-CBA-CGA-O1A |
| 27 | P | 618 | LHG | O10-C23-C24-C25 |
| 33 | R | 601 | CHL | CAA-CBA-CGA-O1A |
| 25 | B | 802 | CLA | CAA-CBA-CGA-O2A |
| 25 | U | 310 | CLA | CAA-CBA-CGA-O2A |

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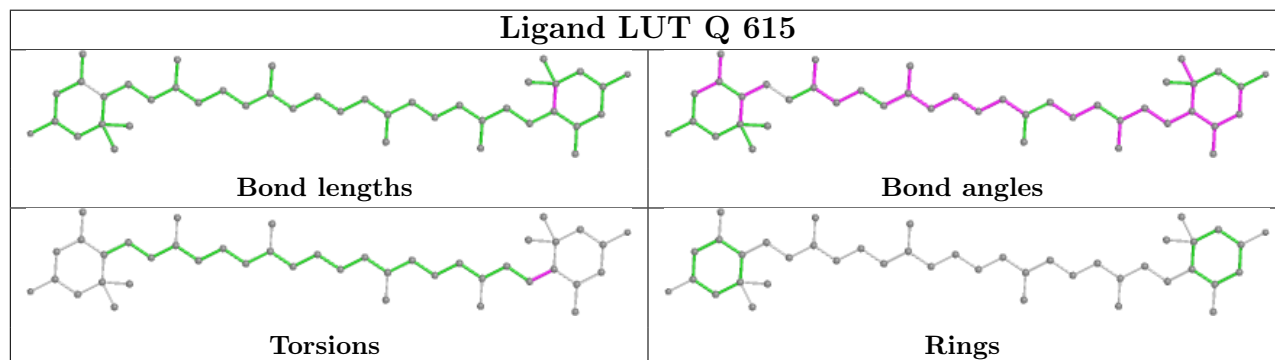
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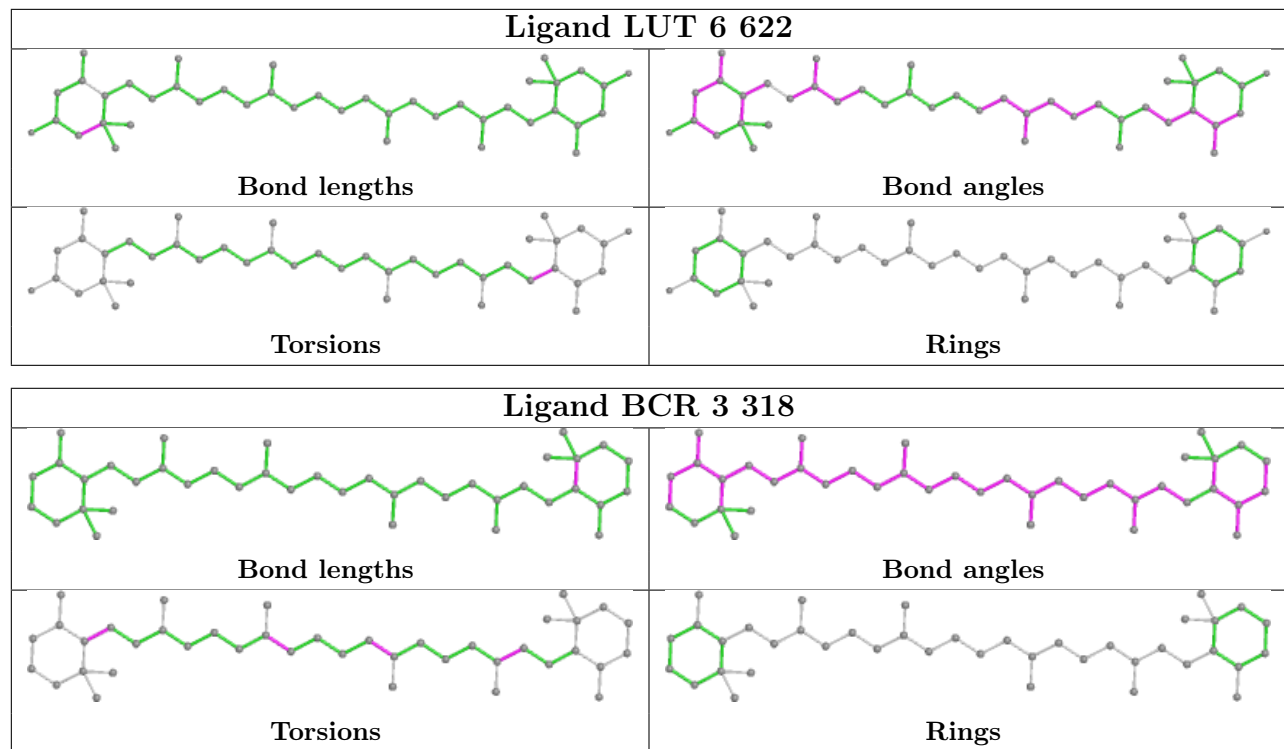
| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 25 | 5 | 324 | CLA | CAA-CBA-CGA-O2A |
| 32 | J | 104 | LMG | O7-C10-C11-C12 |
| 25 | 3 | 314 | CLA | CAA-CBA-CGA-O1A |
| 25 | 4 | 301 | CLA | CAA-CBA-CGA-O1A |
| 27 | P | 624 | LHG | O10-C23-C24-C25 |
| 27 | R | 618 | LHG | O10-C23-C24-C25 |
| 27 | T | 617 | LHG | O10-C23-C24-C25 |
| 33 | 8 | 307 | CHL | CAA-CBA-CGA-O1A |
| 25 | 7 | 308 | CLA | C2A-CAA-CBA-CGA |
| 25 | 8 | 302 | CLA | C2A-CAA-CBA-CGA |
| 25 | 5 | 314 | CLA | CAA-CBA-CGA-O1A |
| 25 | 1 | 608 | CLA | C10-C11-C12-C13 |
| 25 | 9 | 302 | CLA | CAA-CBA-CGA-O1A |
| 25 | 9 | 310 | CLA | CAA-CBA-CGA-O1A |
| 33 | U | 307 | CHL | CAA-CBA-CGA-O1A |
| 33 | 3 | 306 | CHL | CAA-CBA-CGA-O1A |
| 25 | B | 821 | CLA | CAA-CBA-CGA-O2A |
| 33 | S | 302 | CHL | CAA-CBA-CGA-O2A |

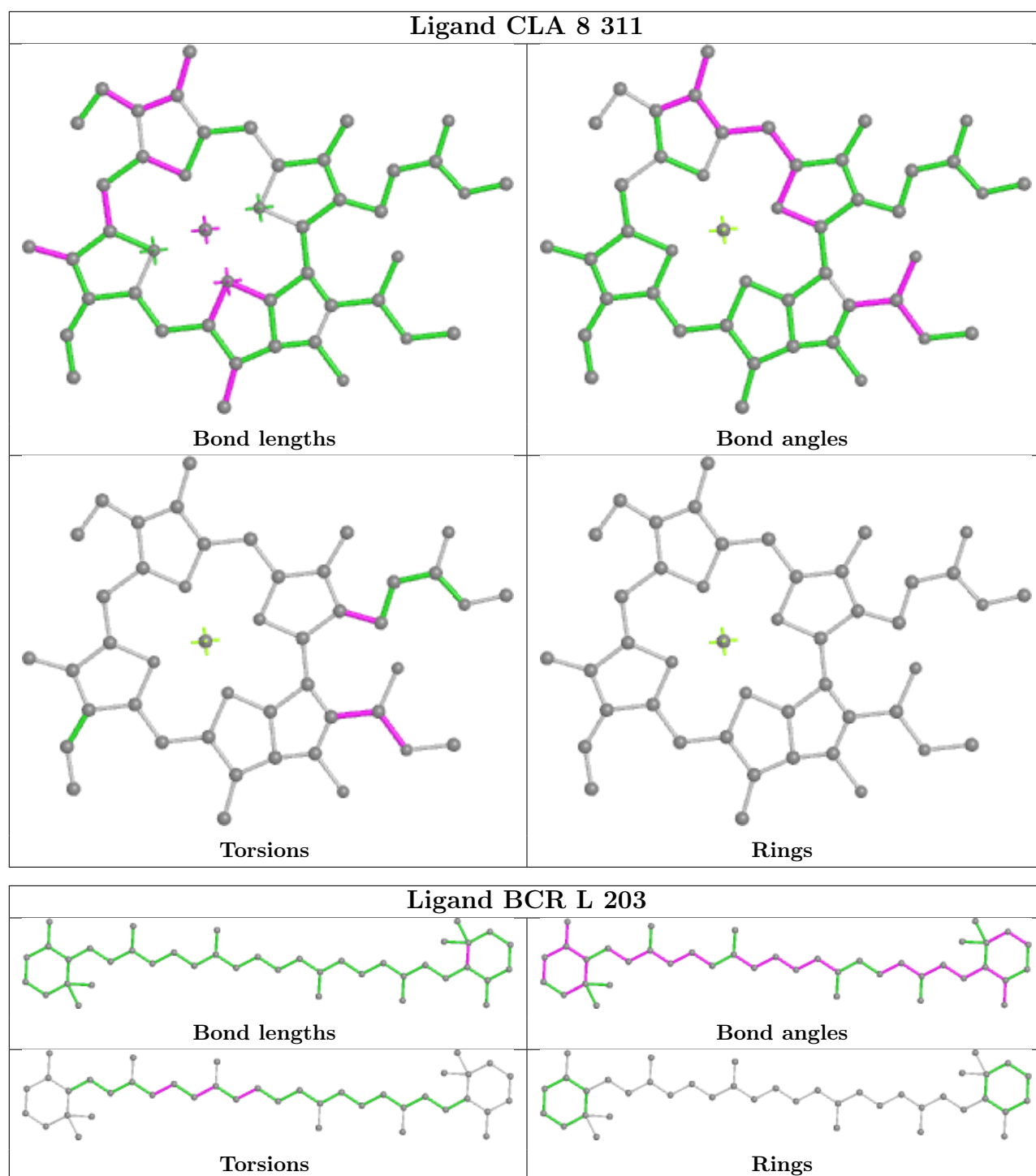
There are no ring outliers.

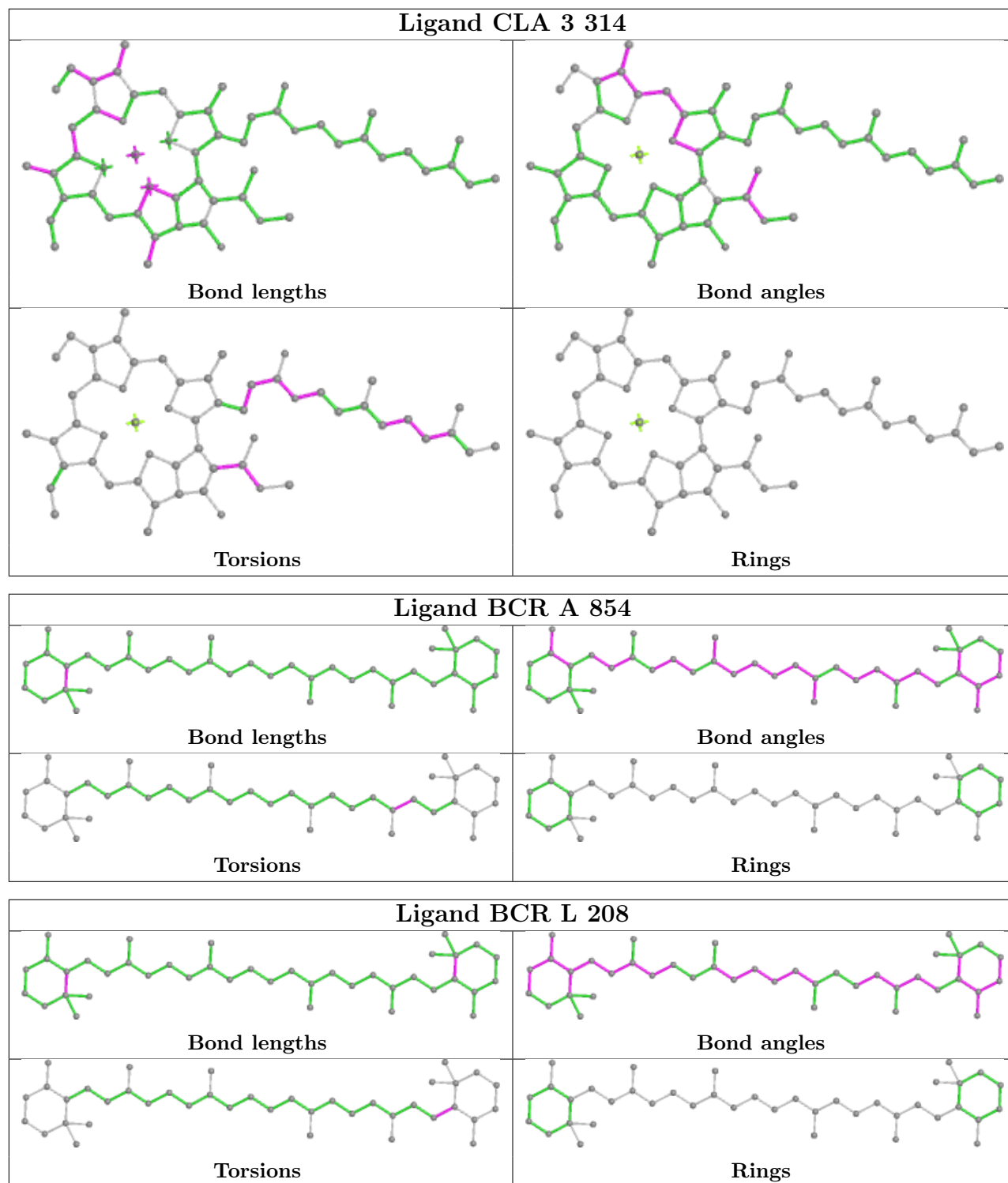
No monomer is involved in short contacts.

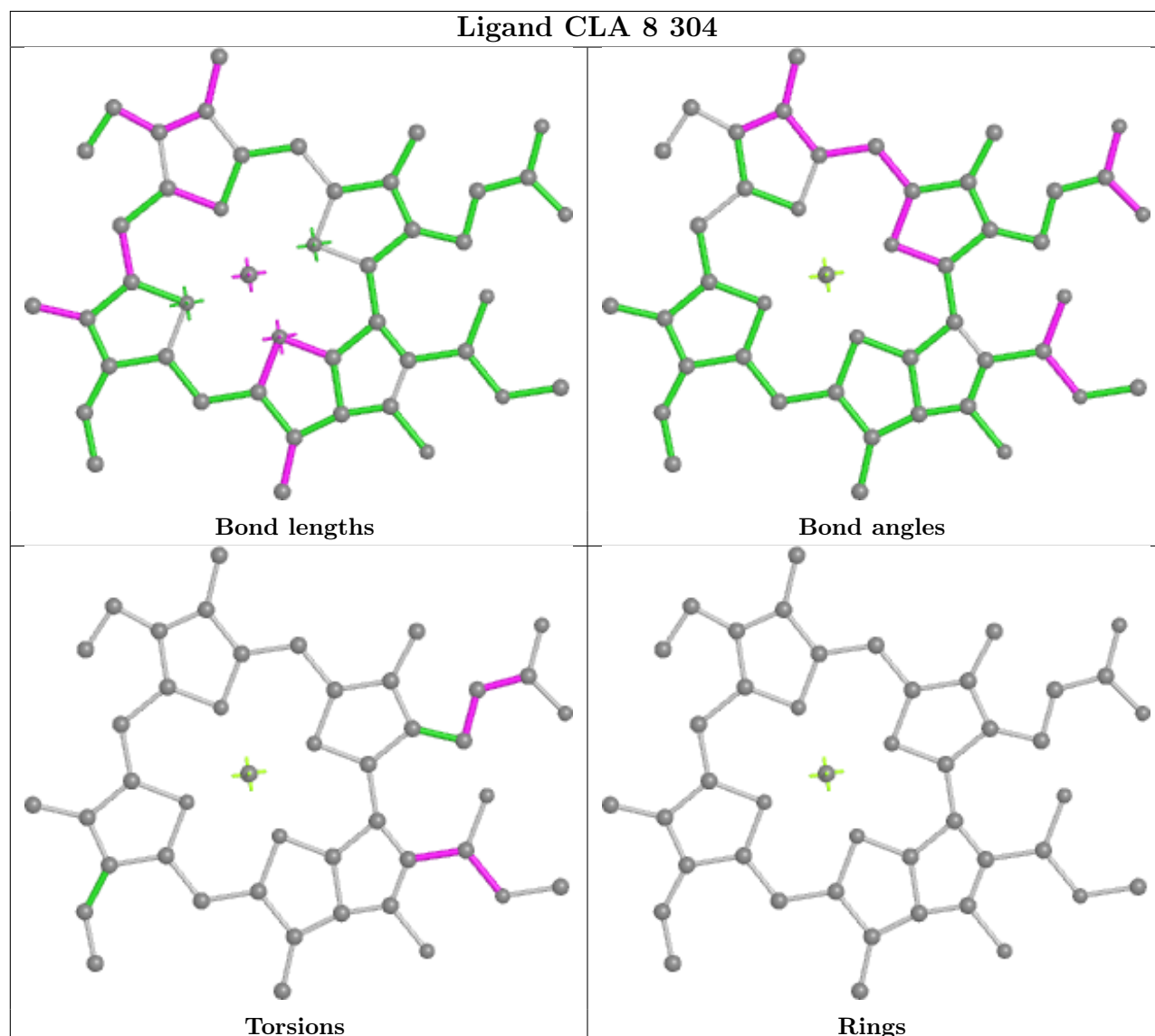
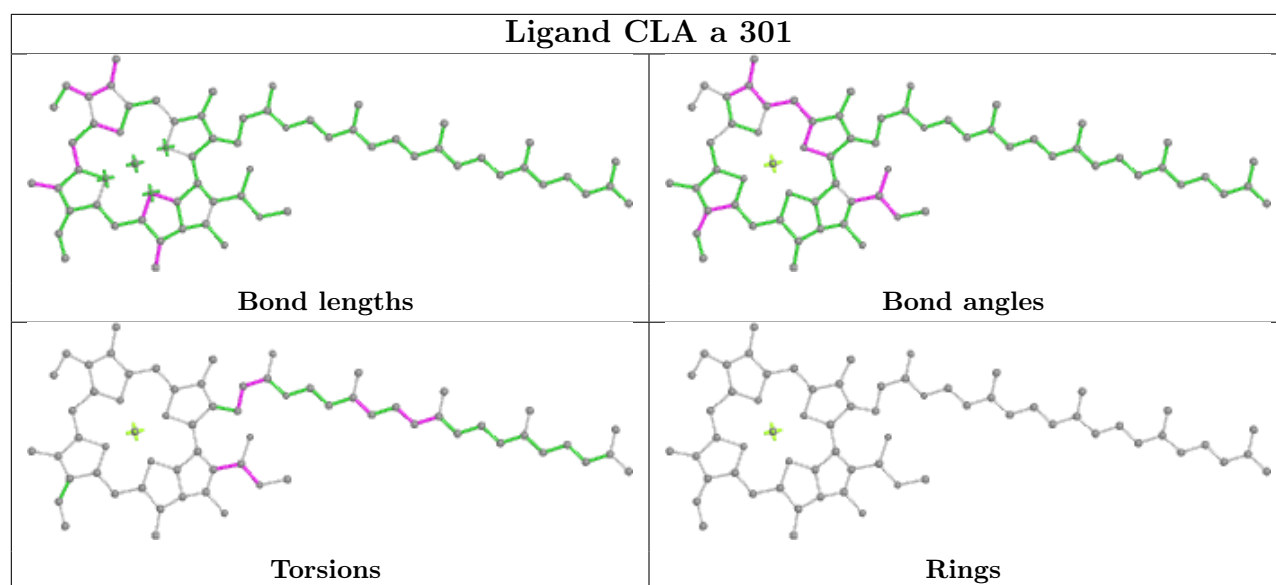
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

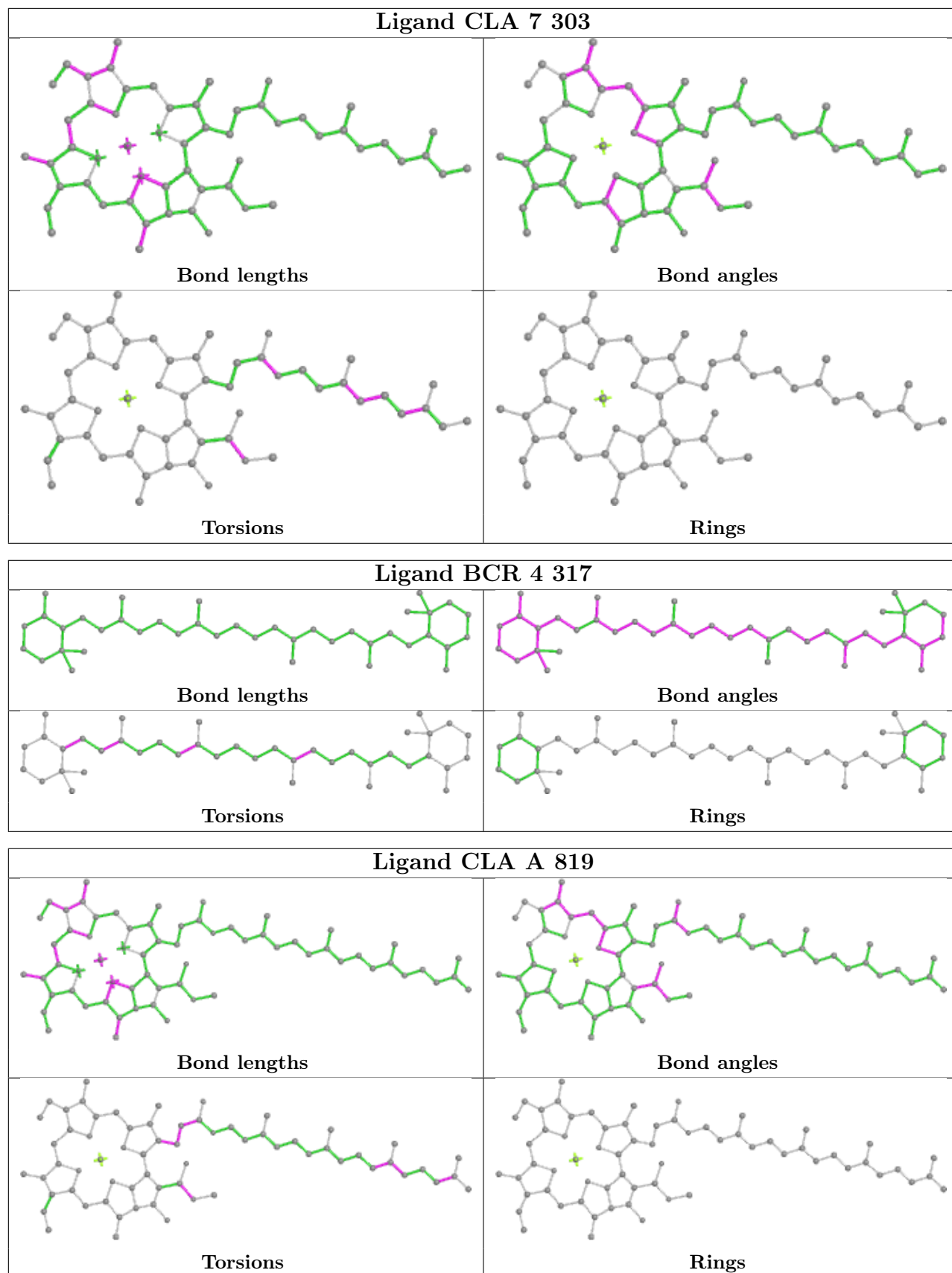


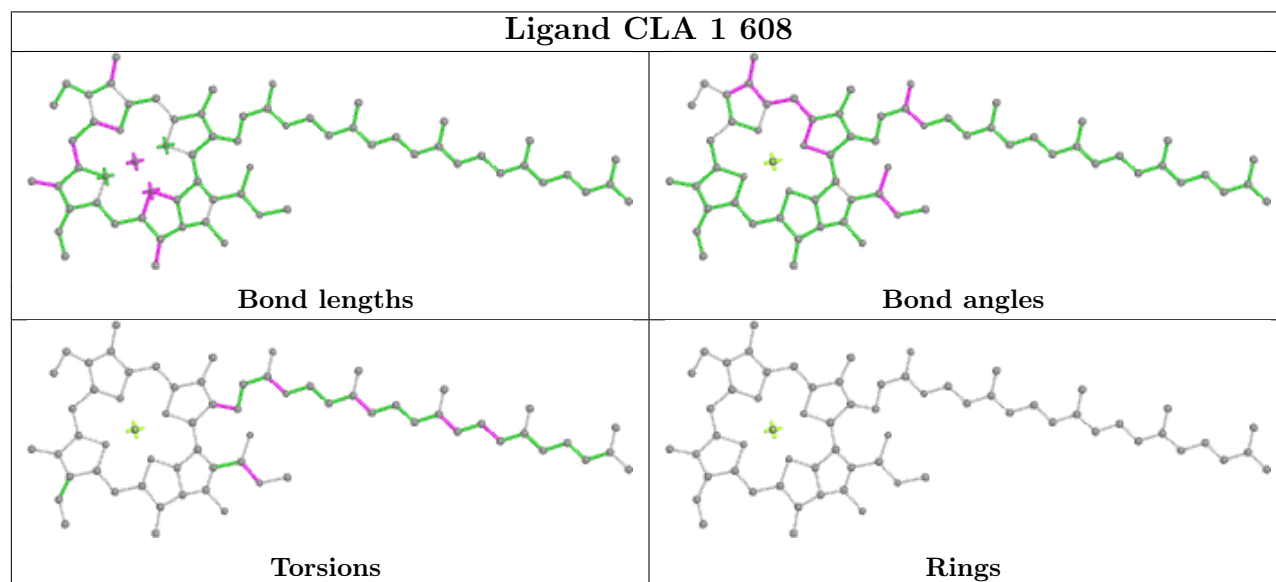
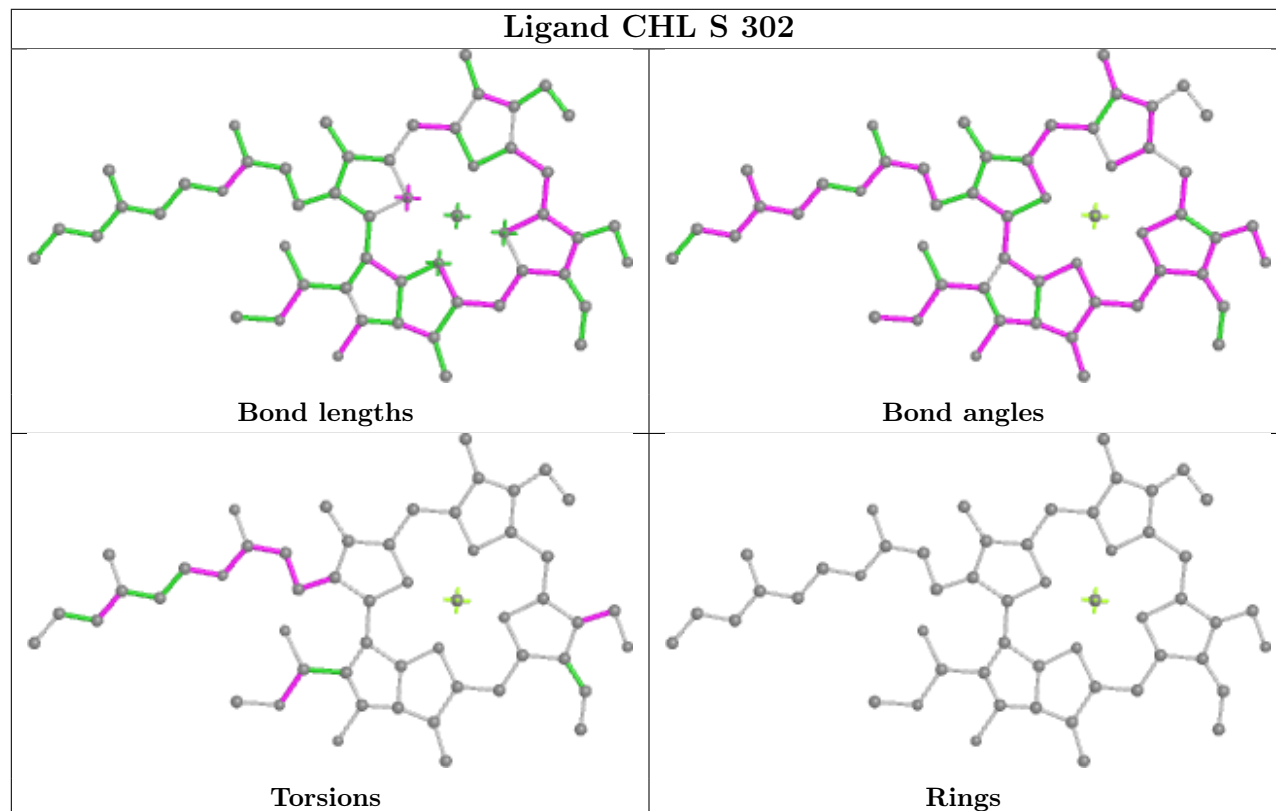
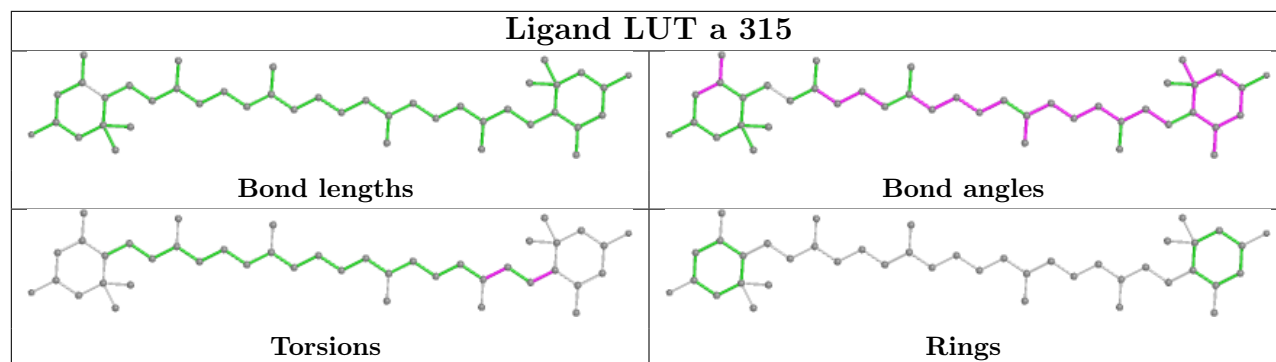


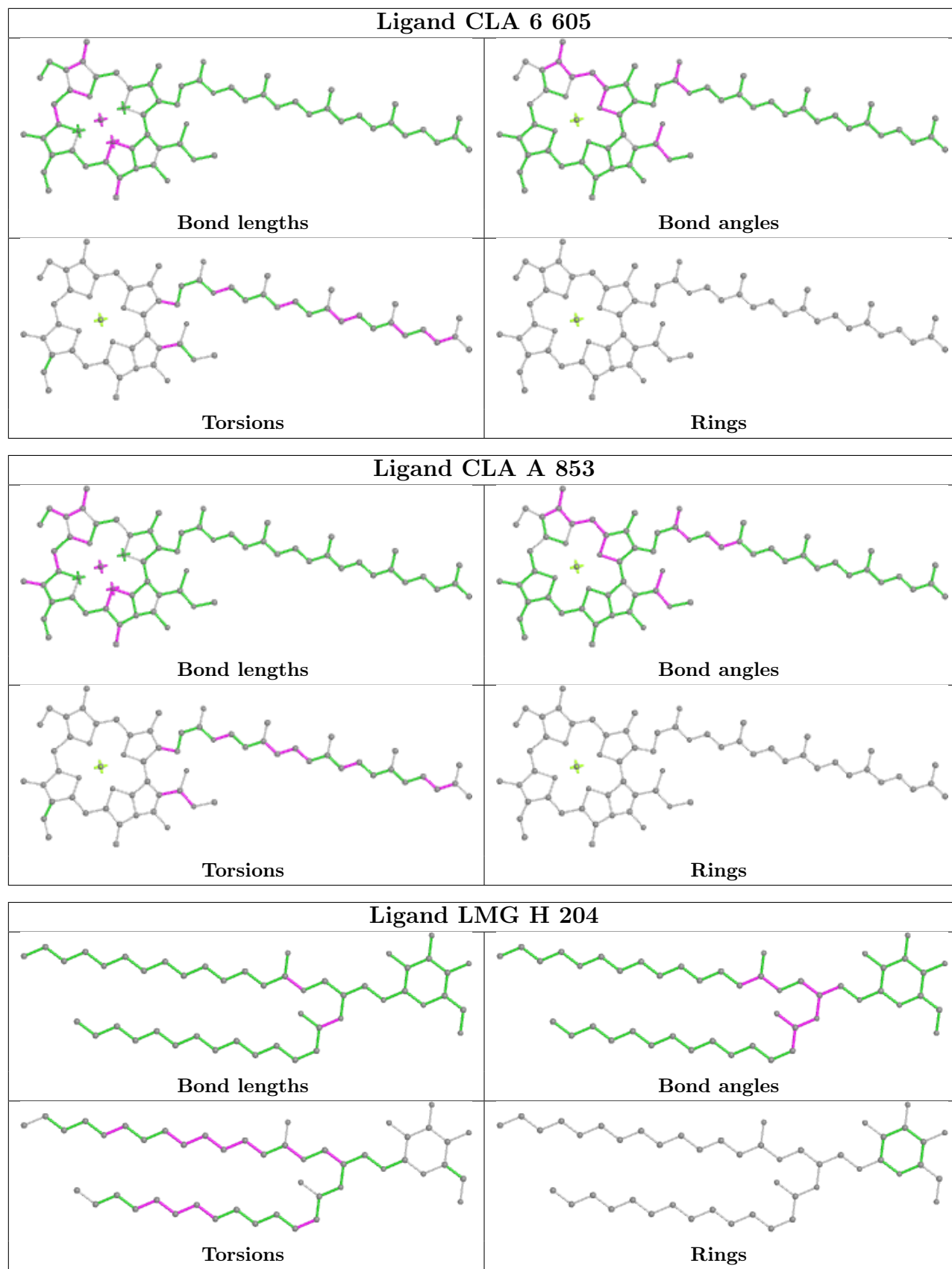


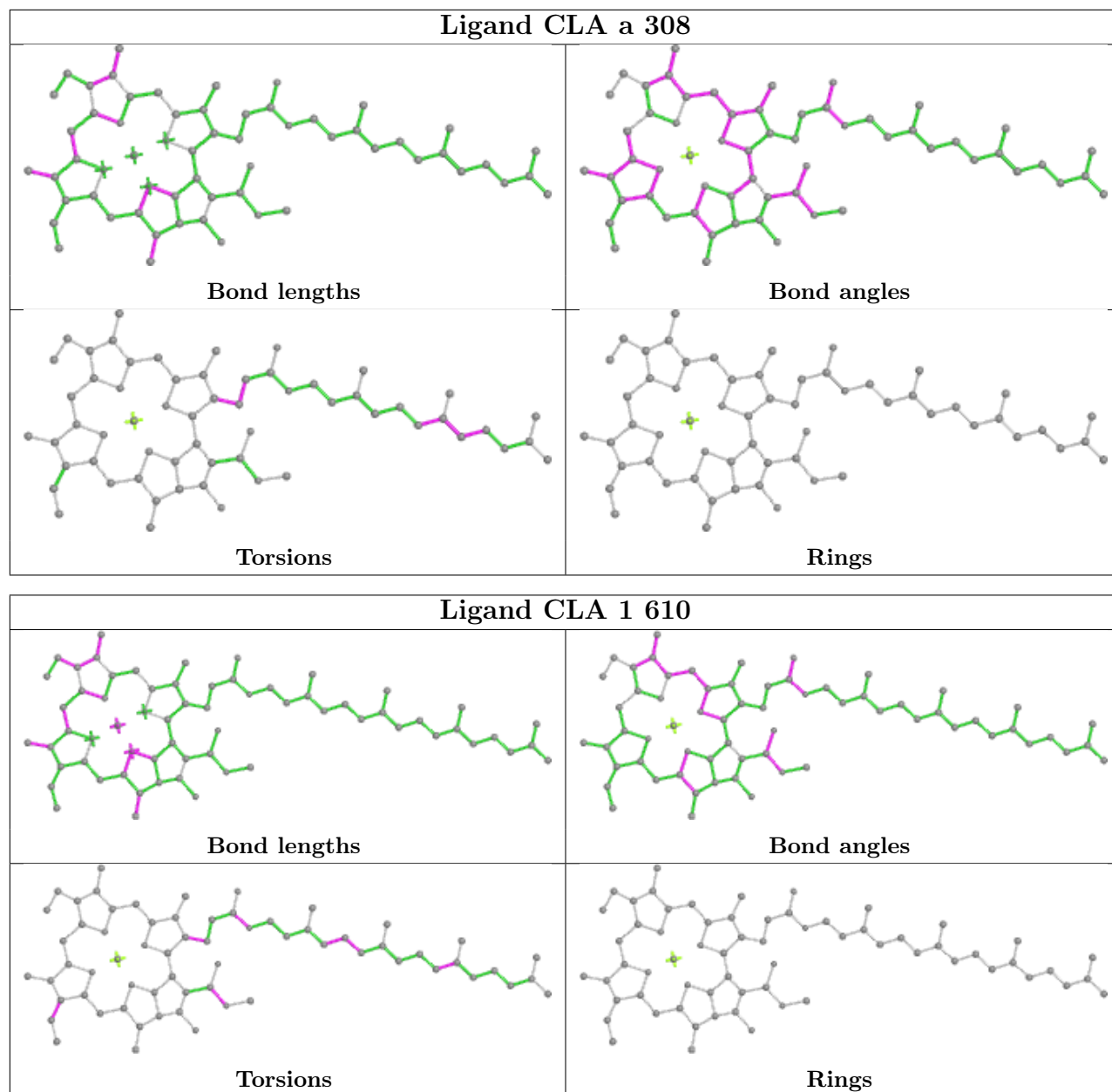


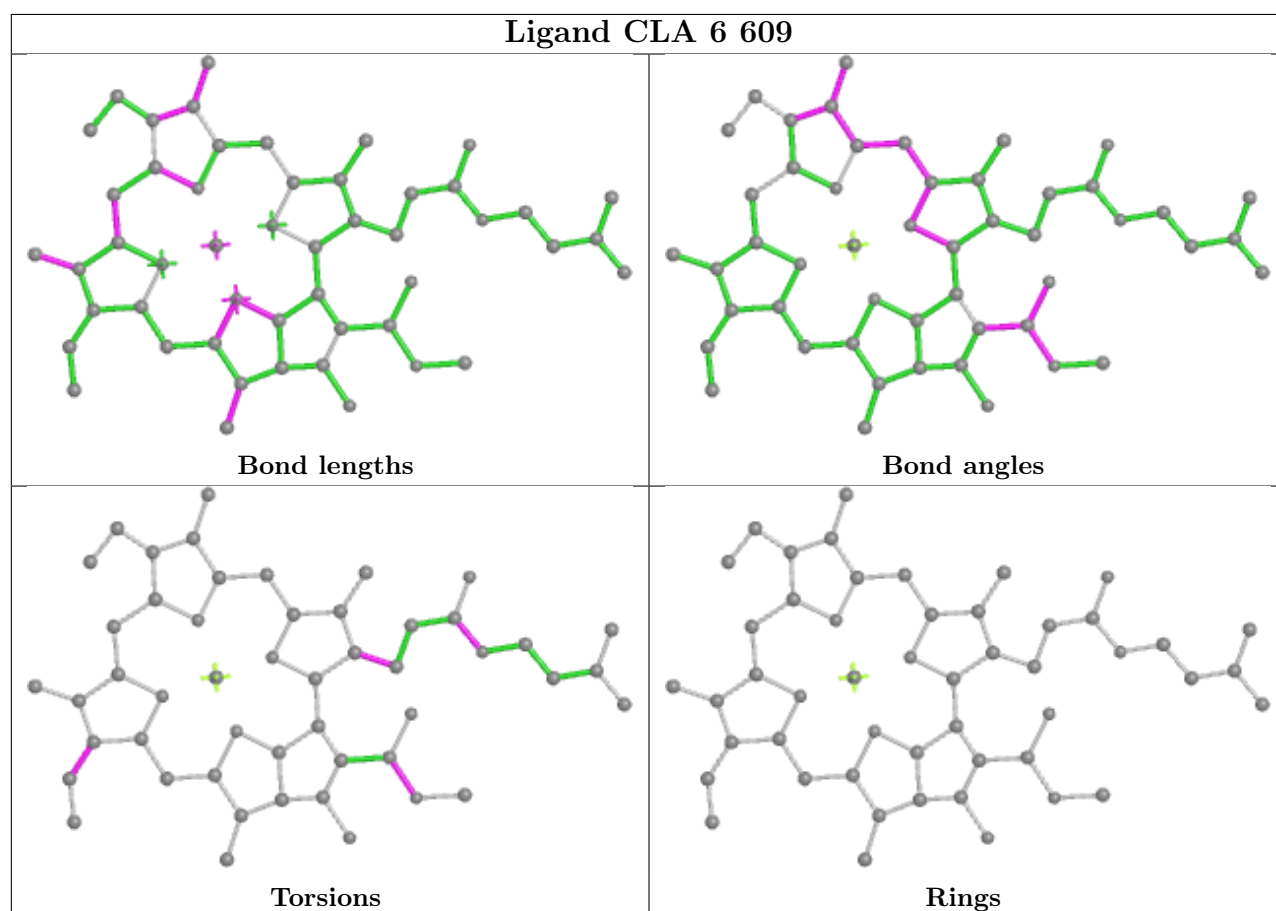
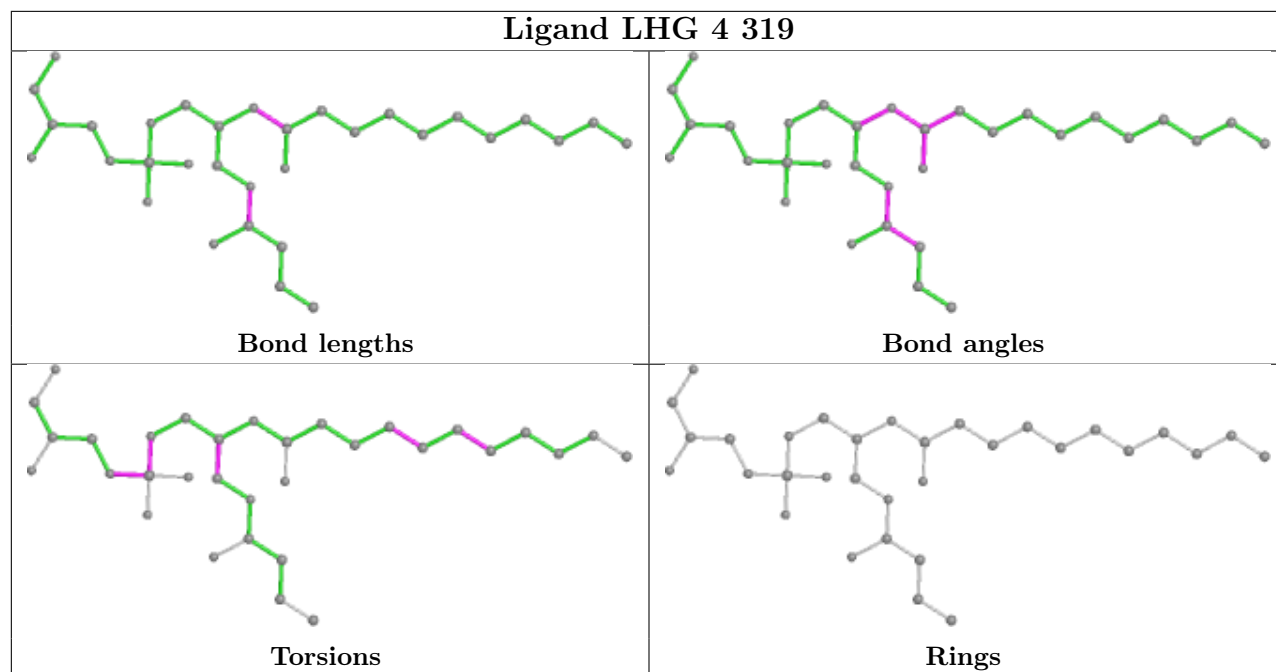




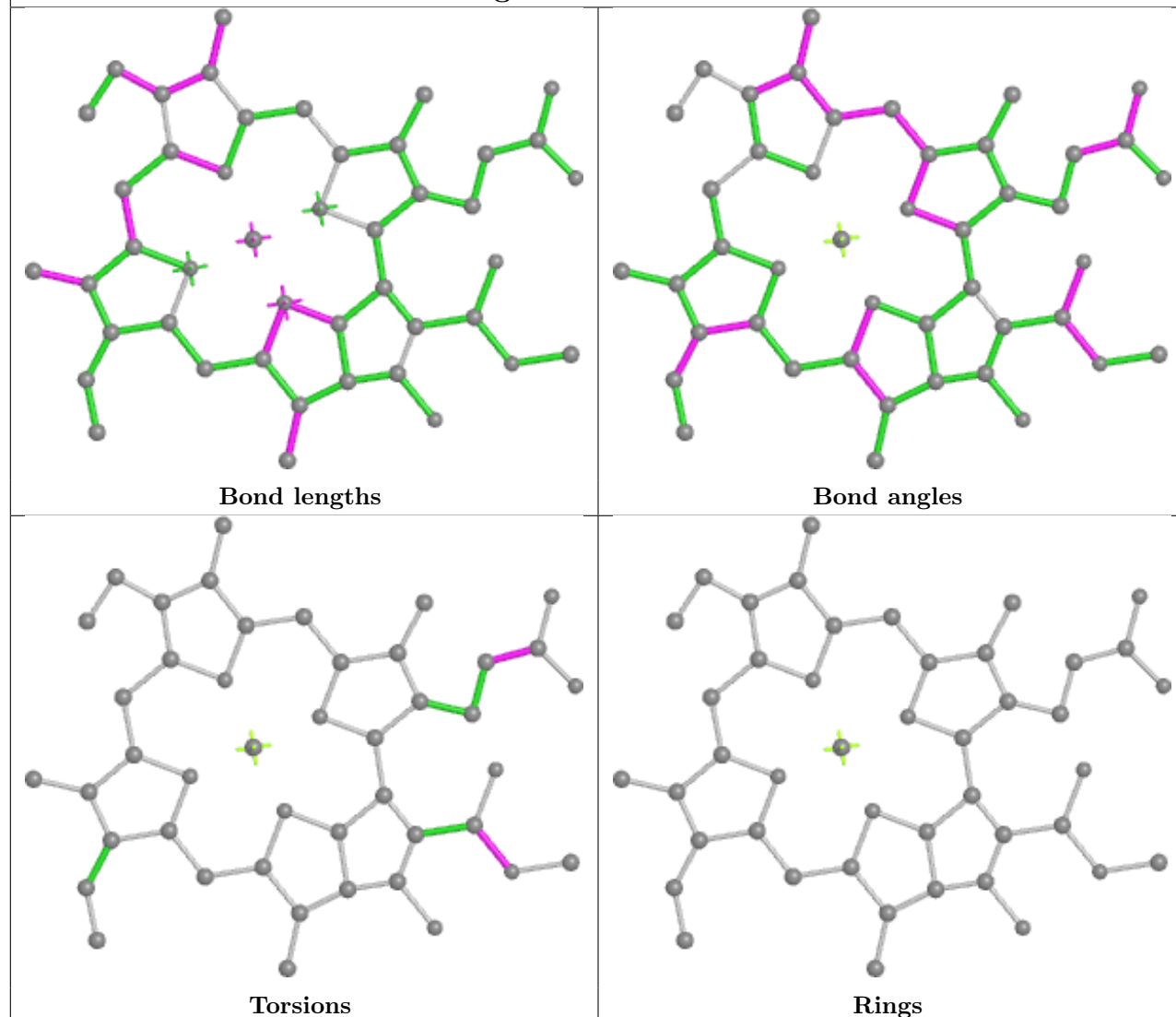




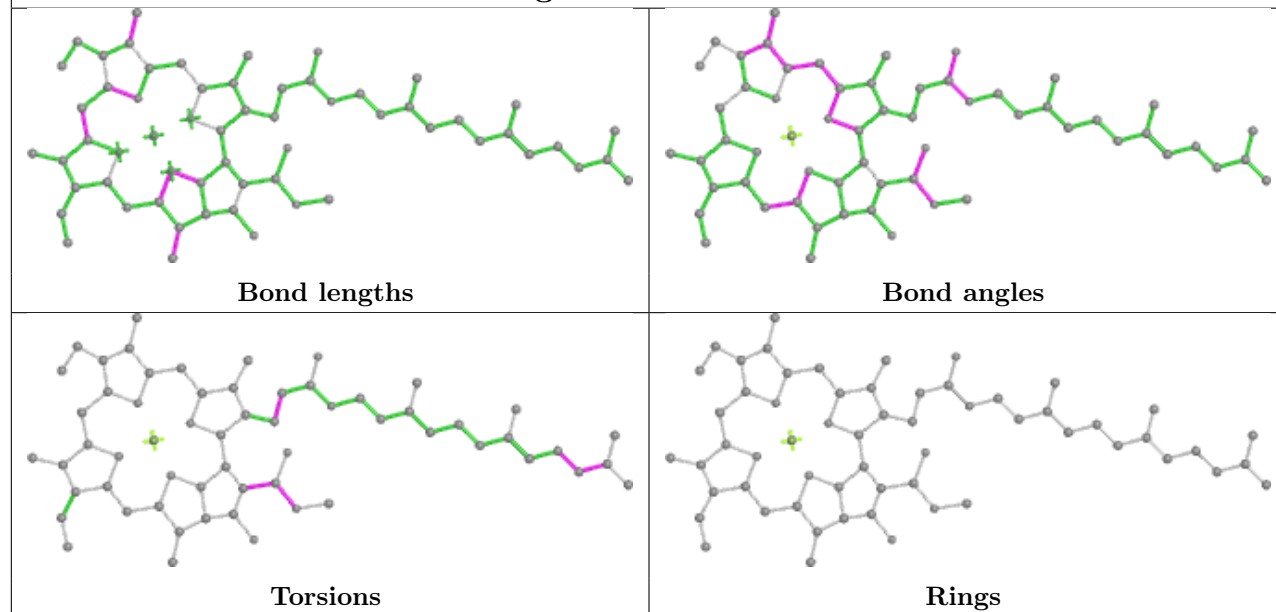


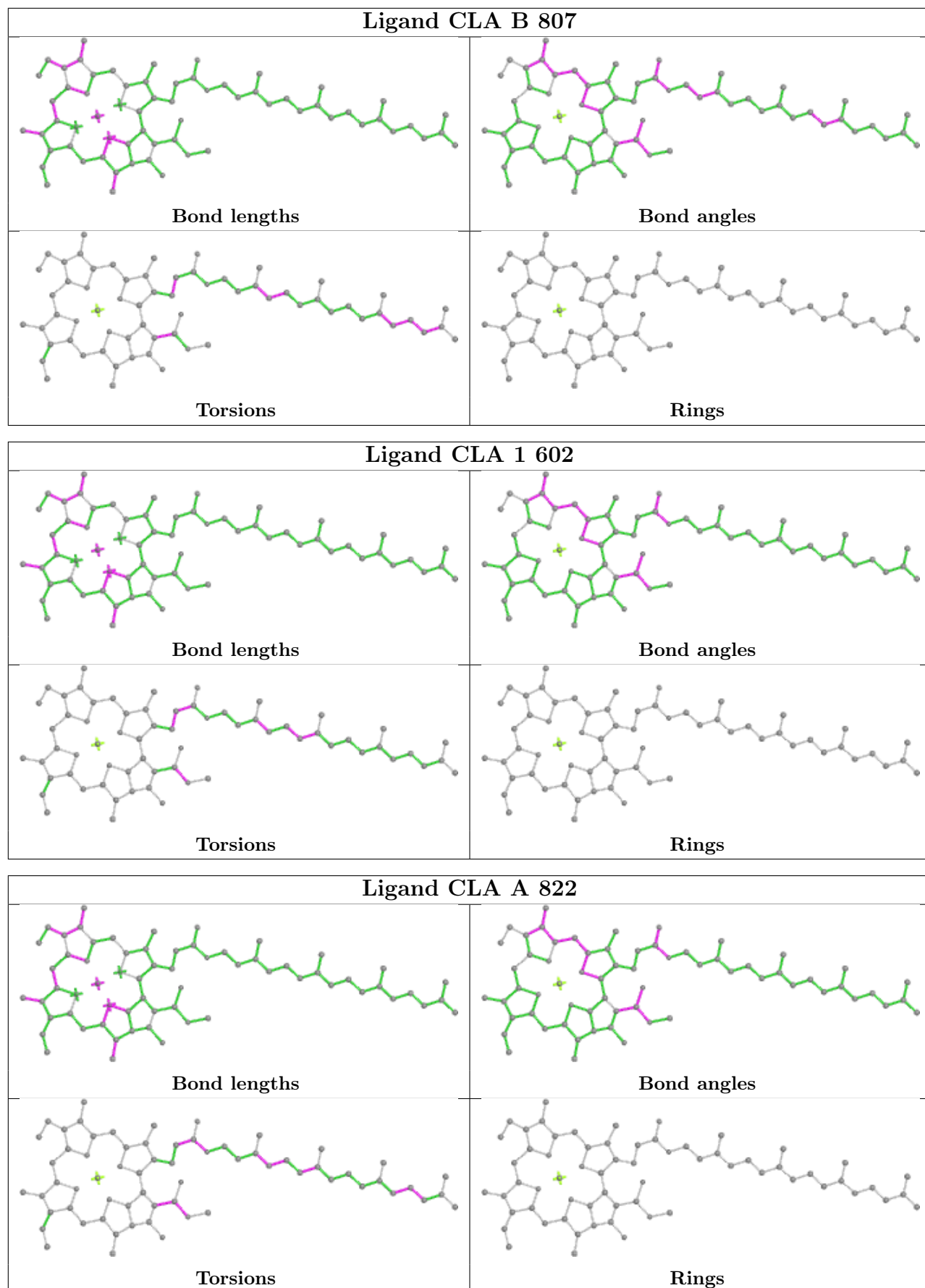


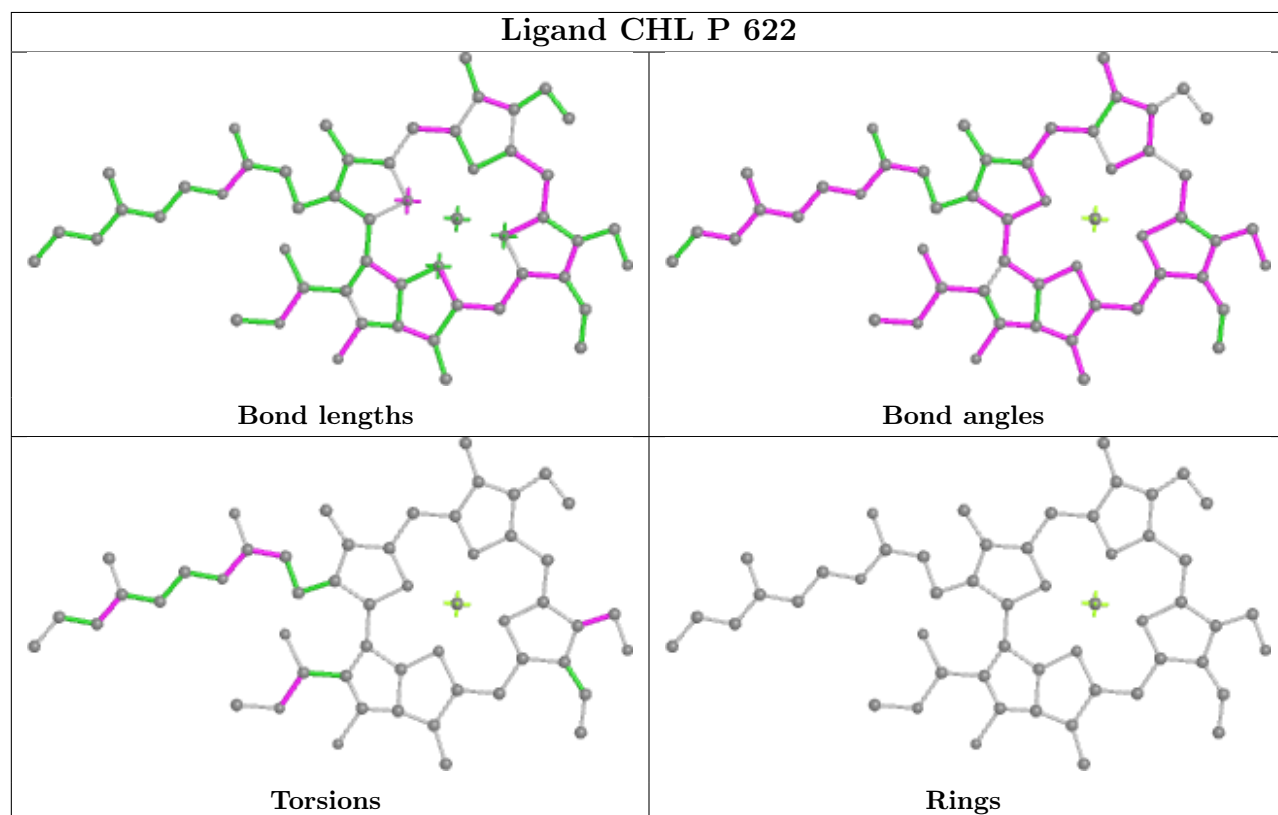
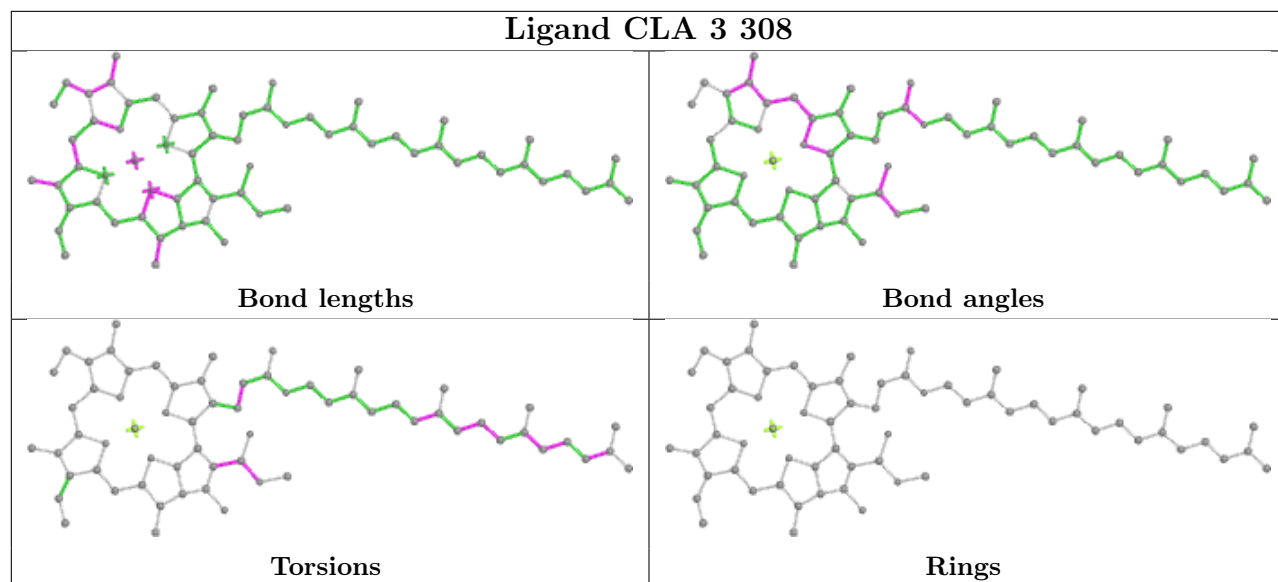
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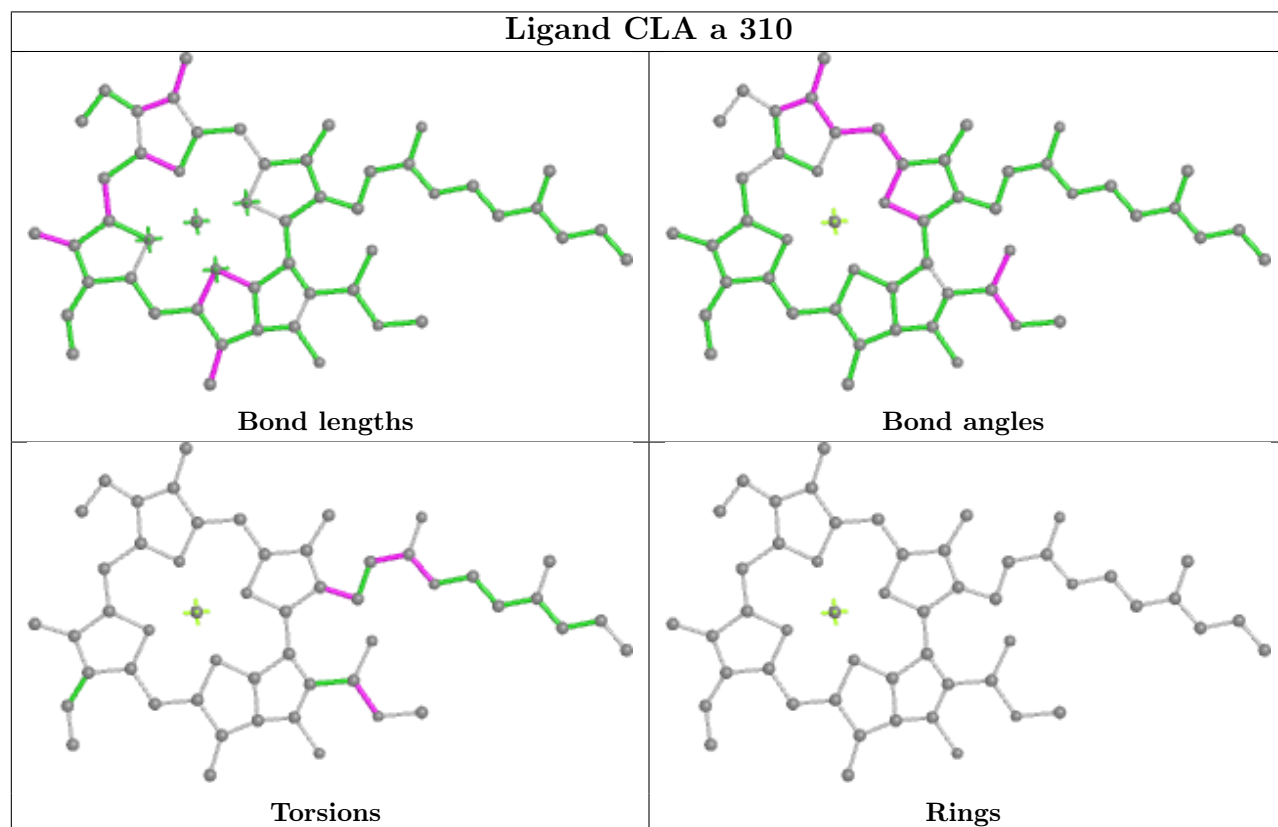
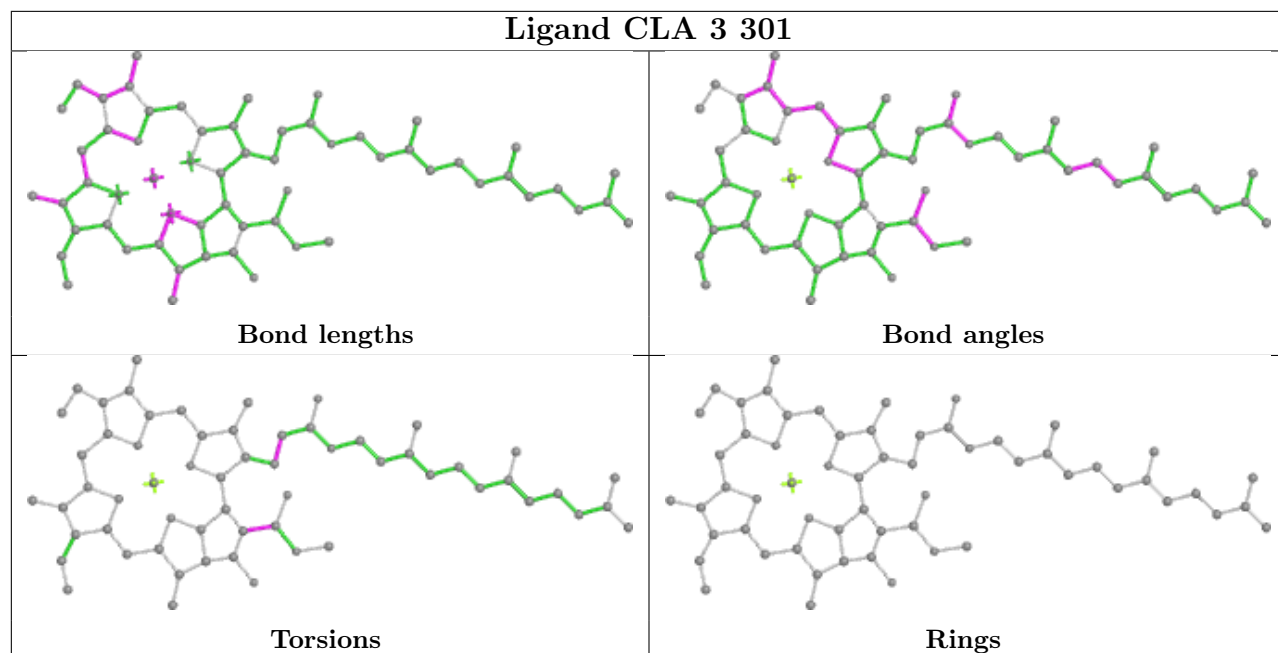


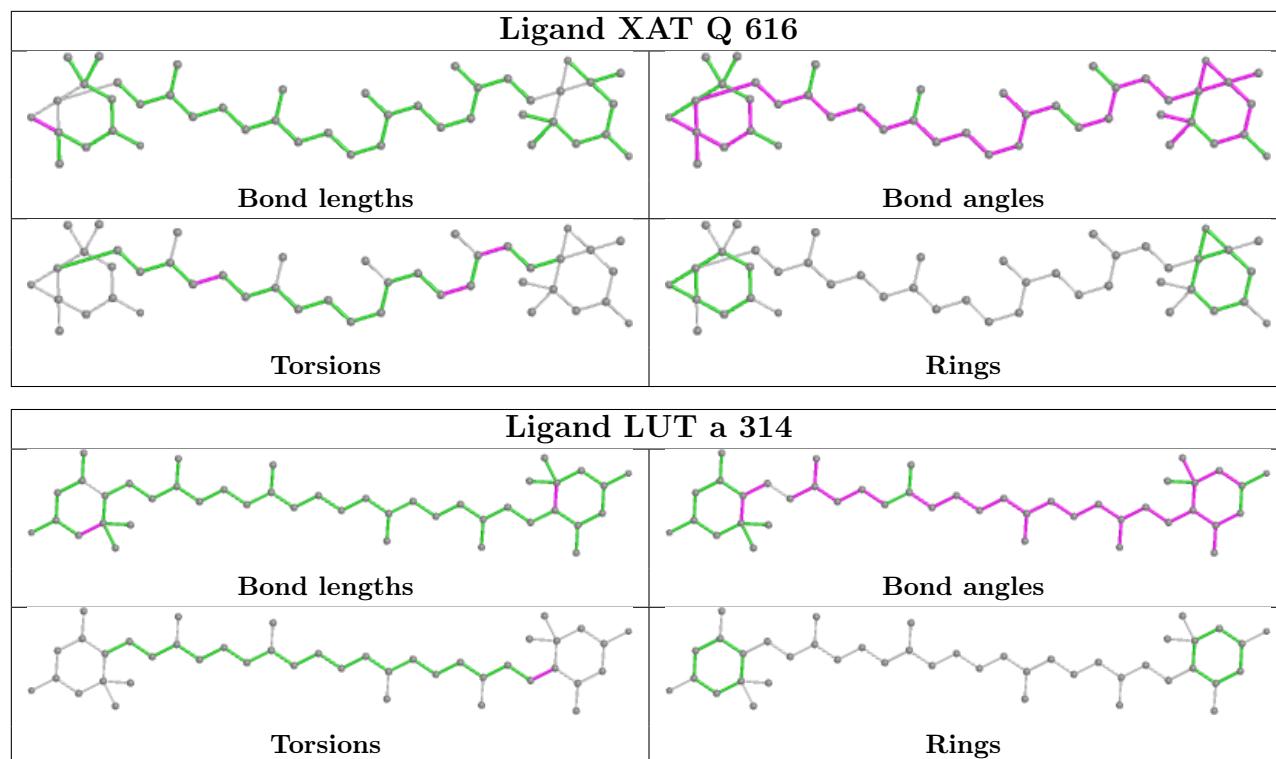
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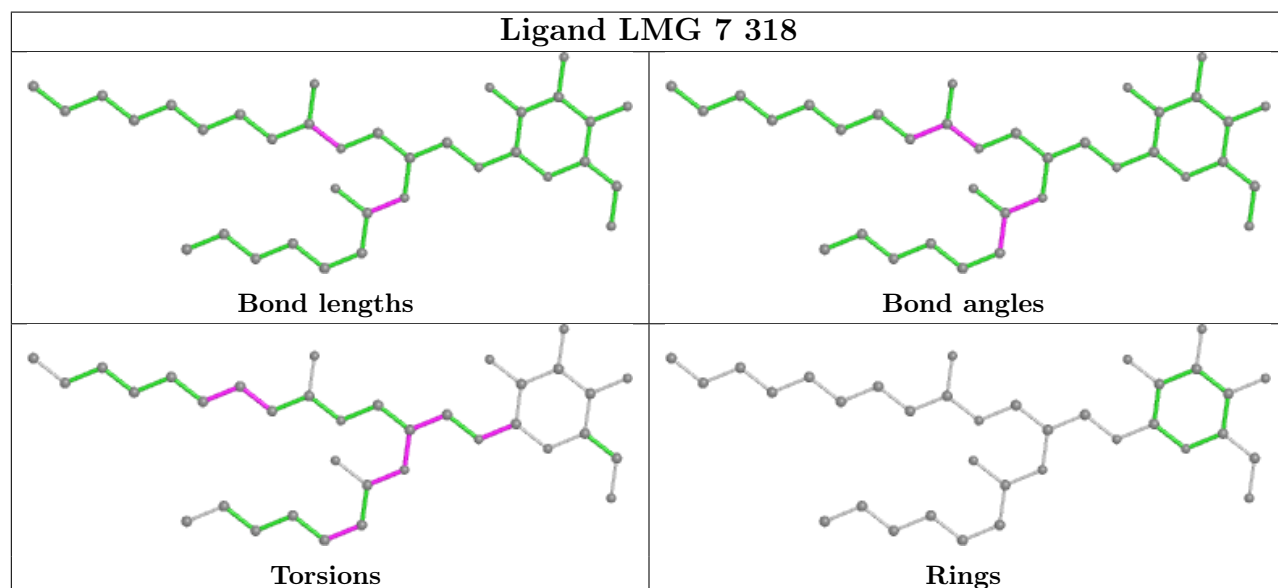
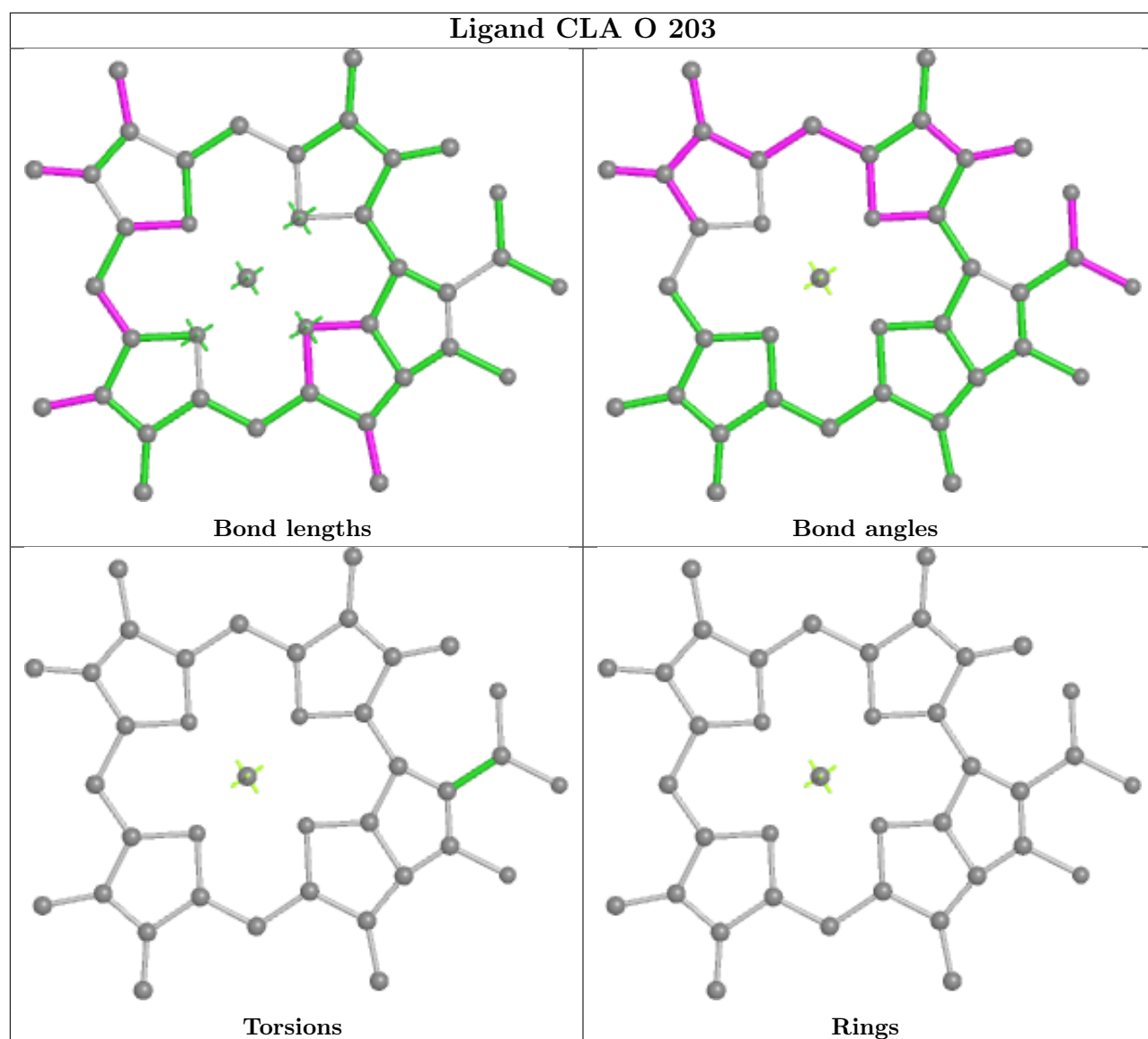


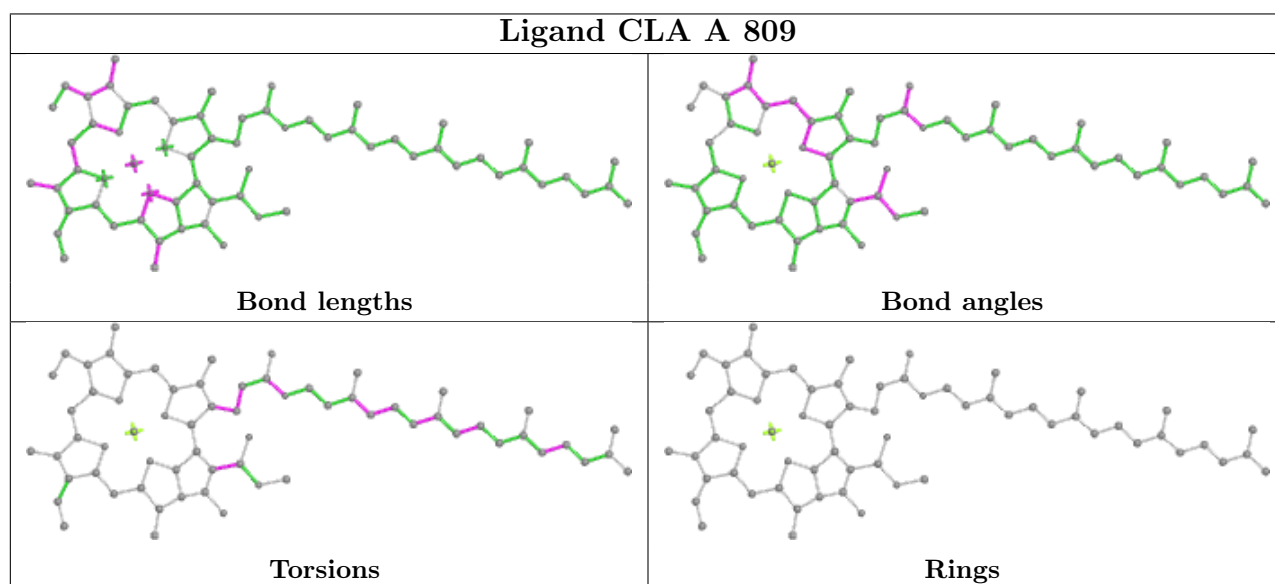
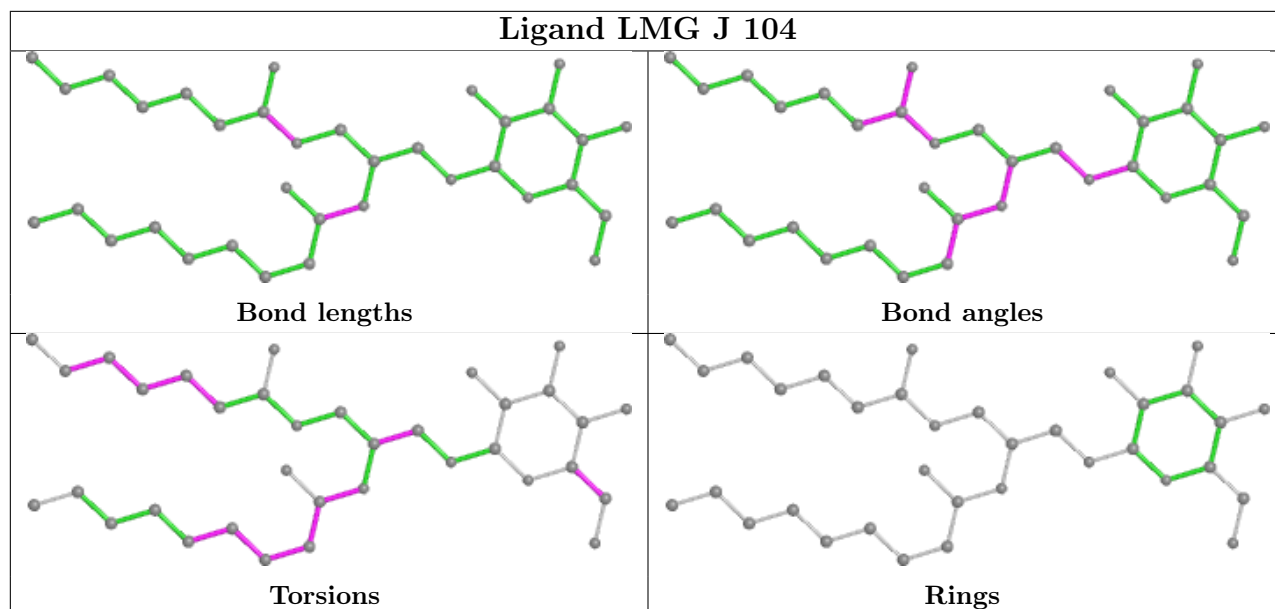


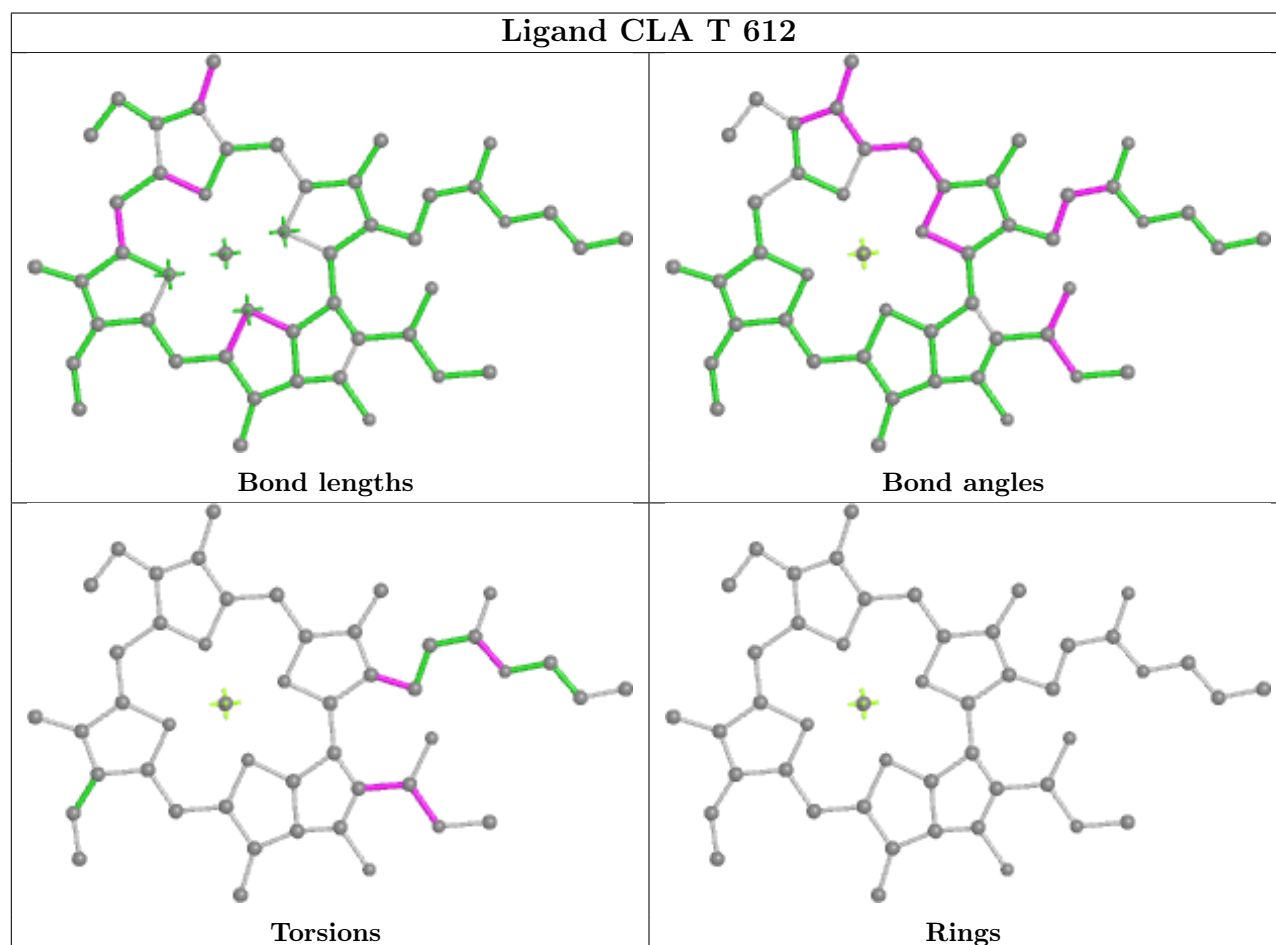
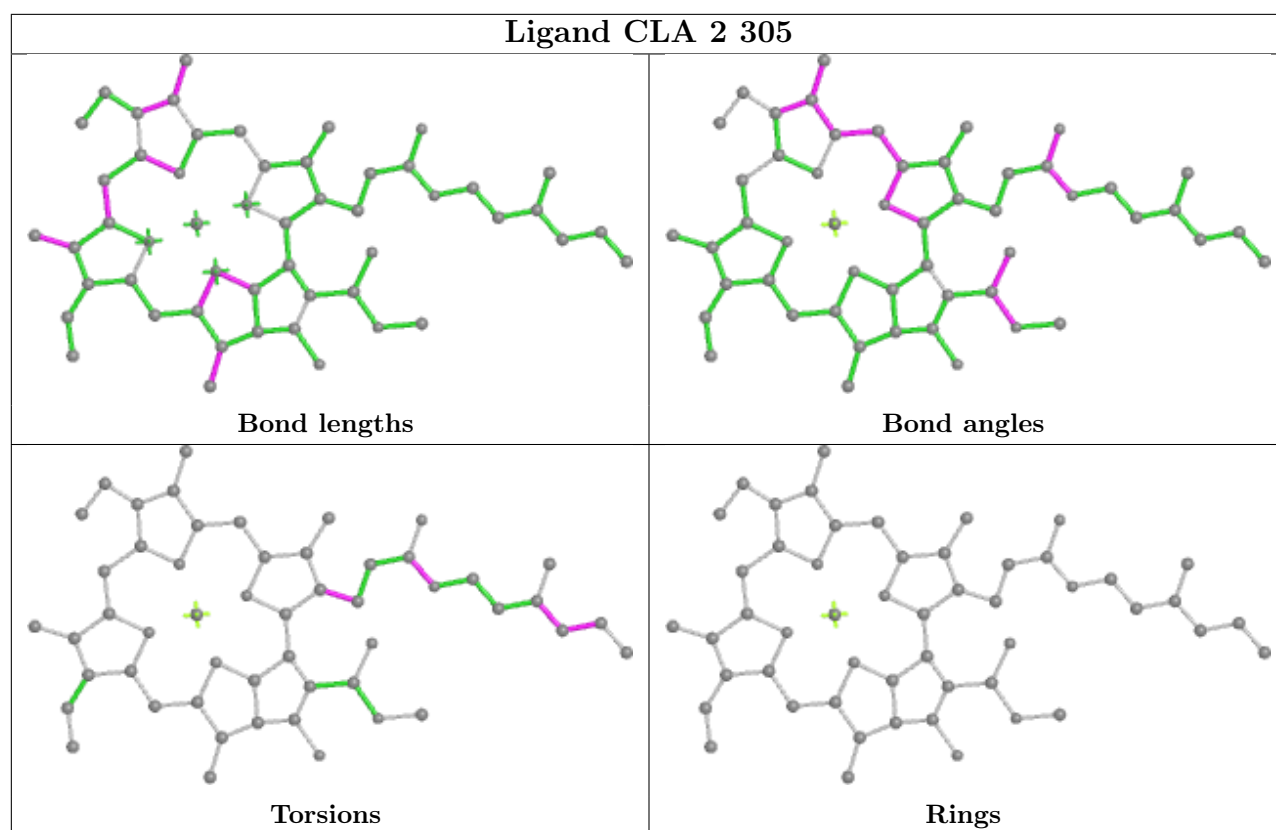


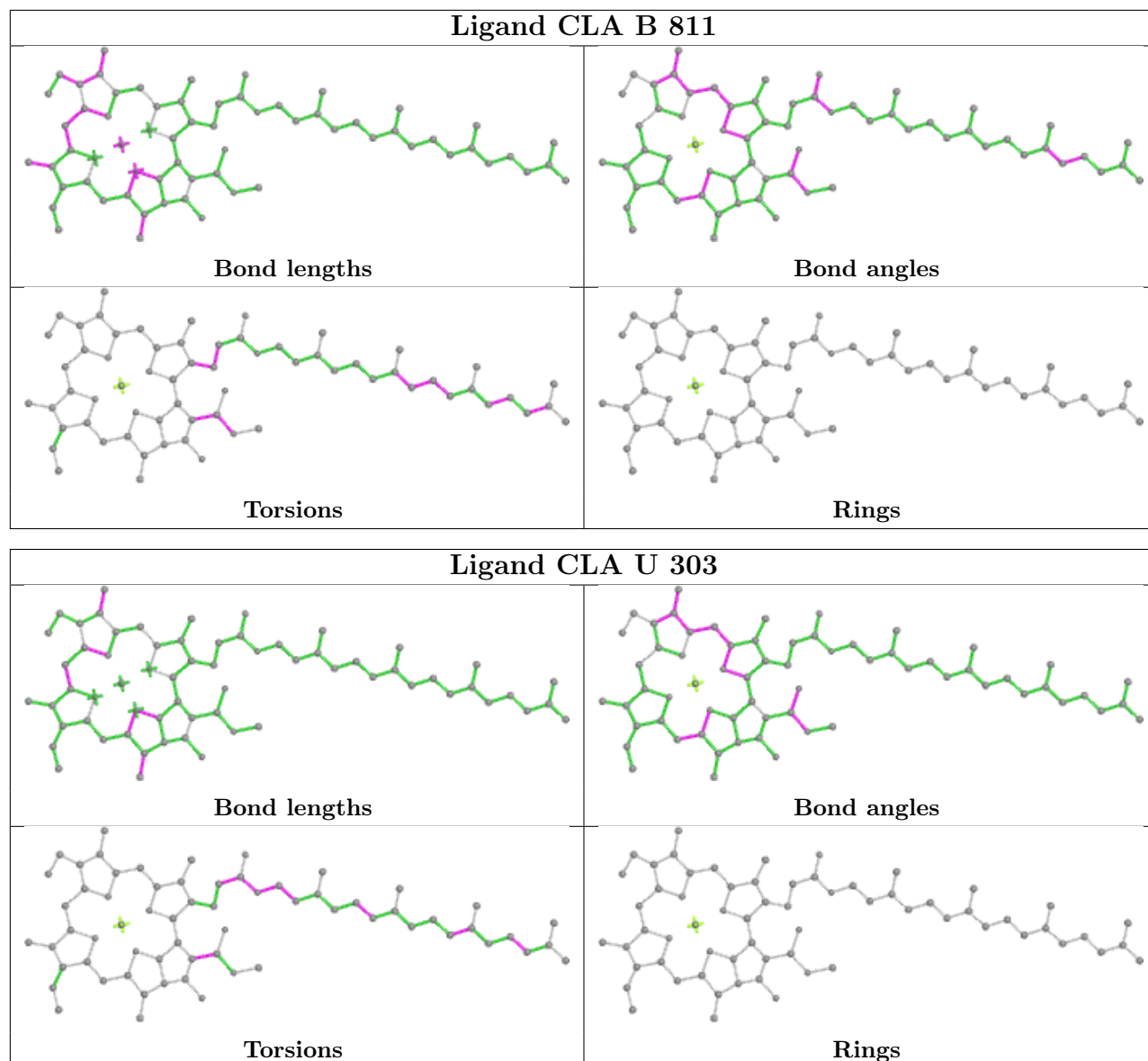


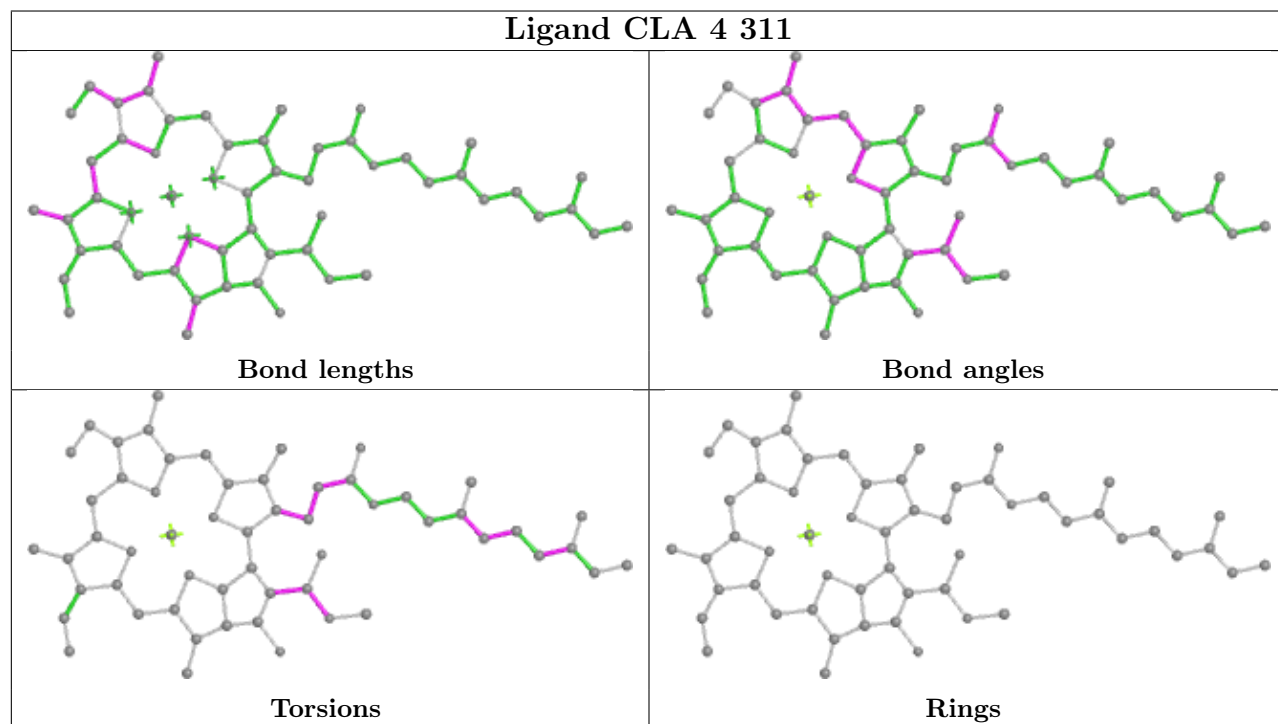
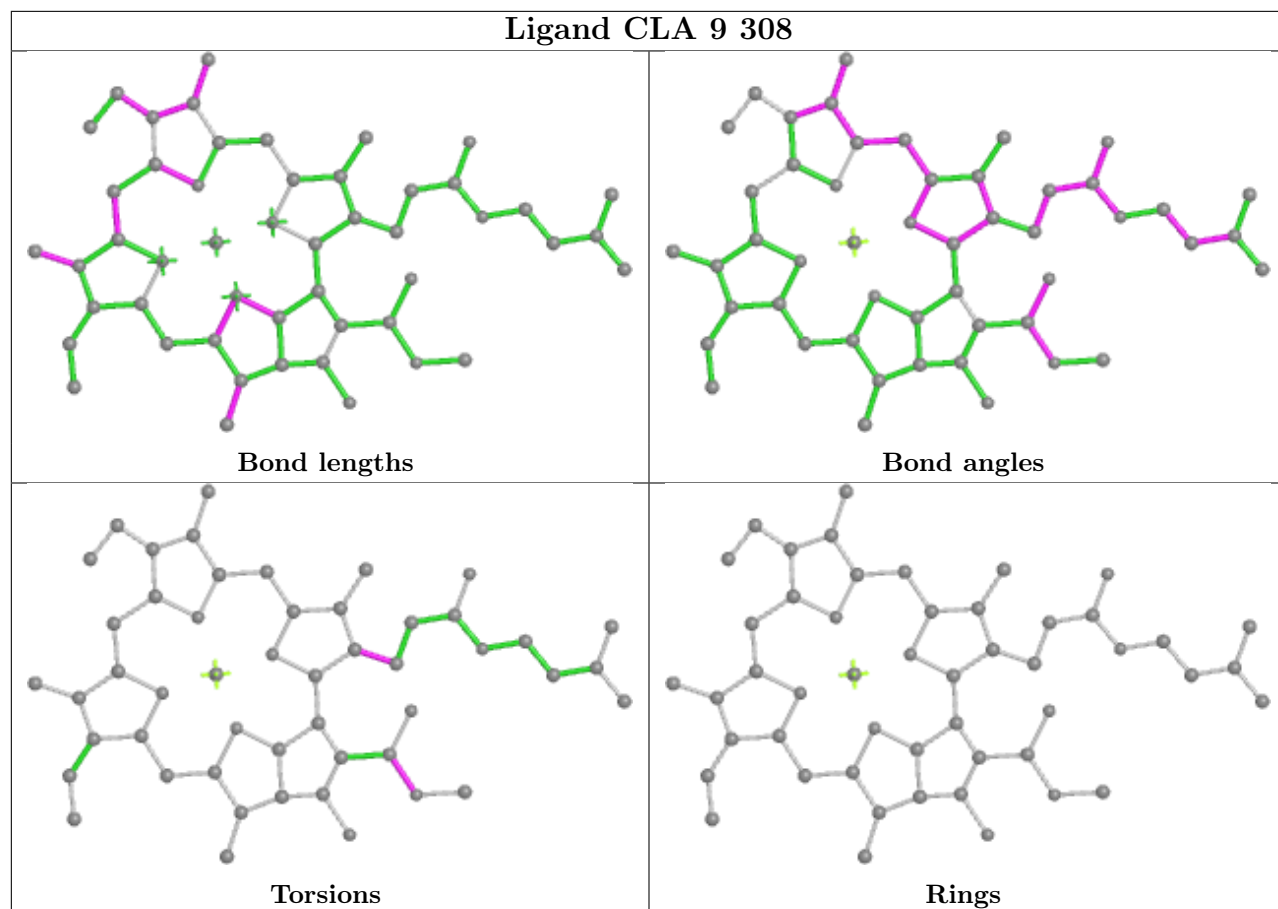


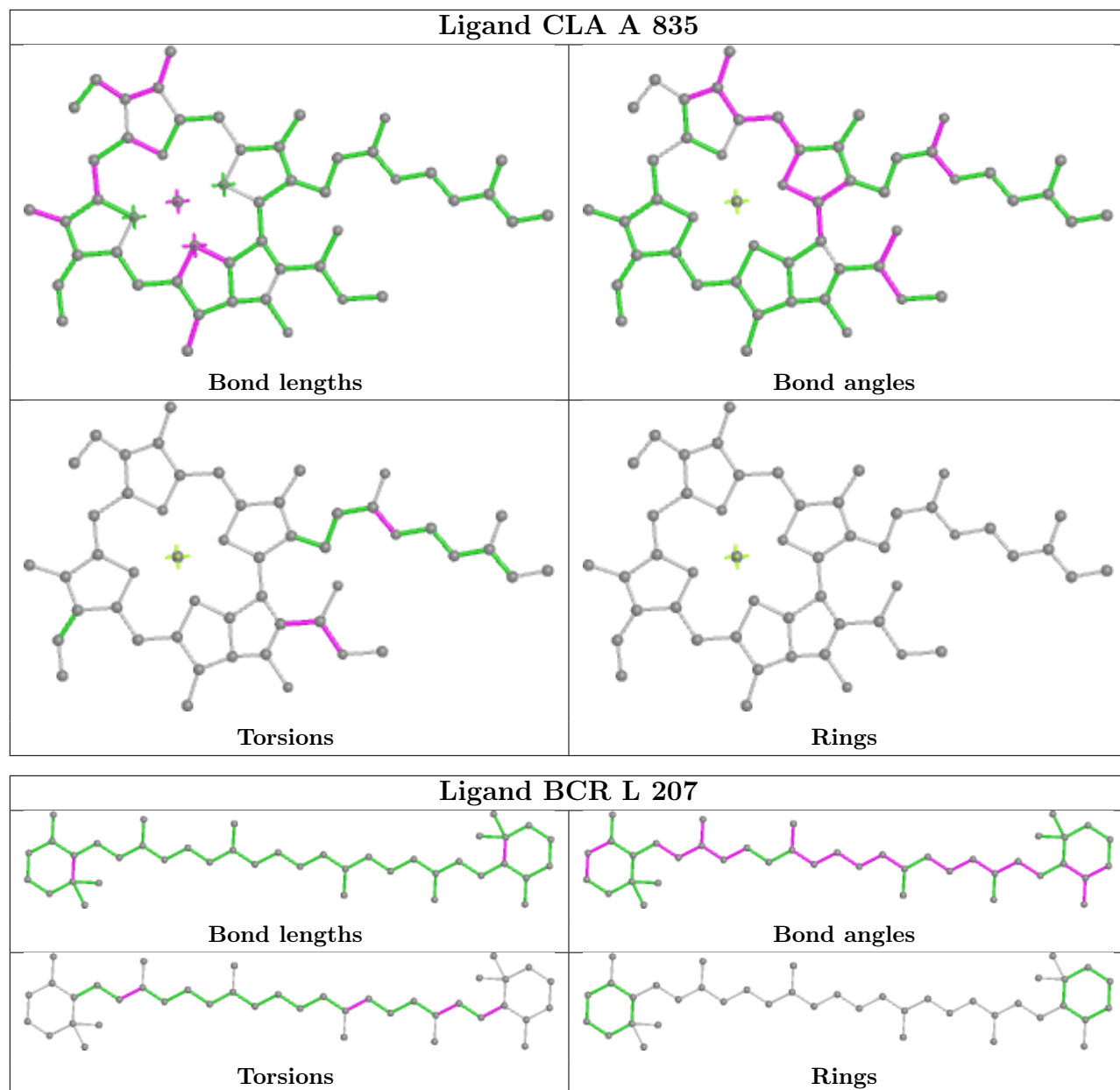


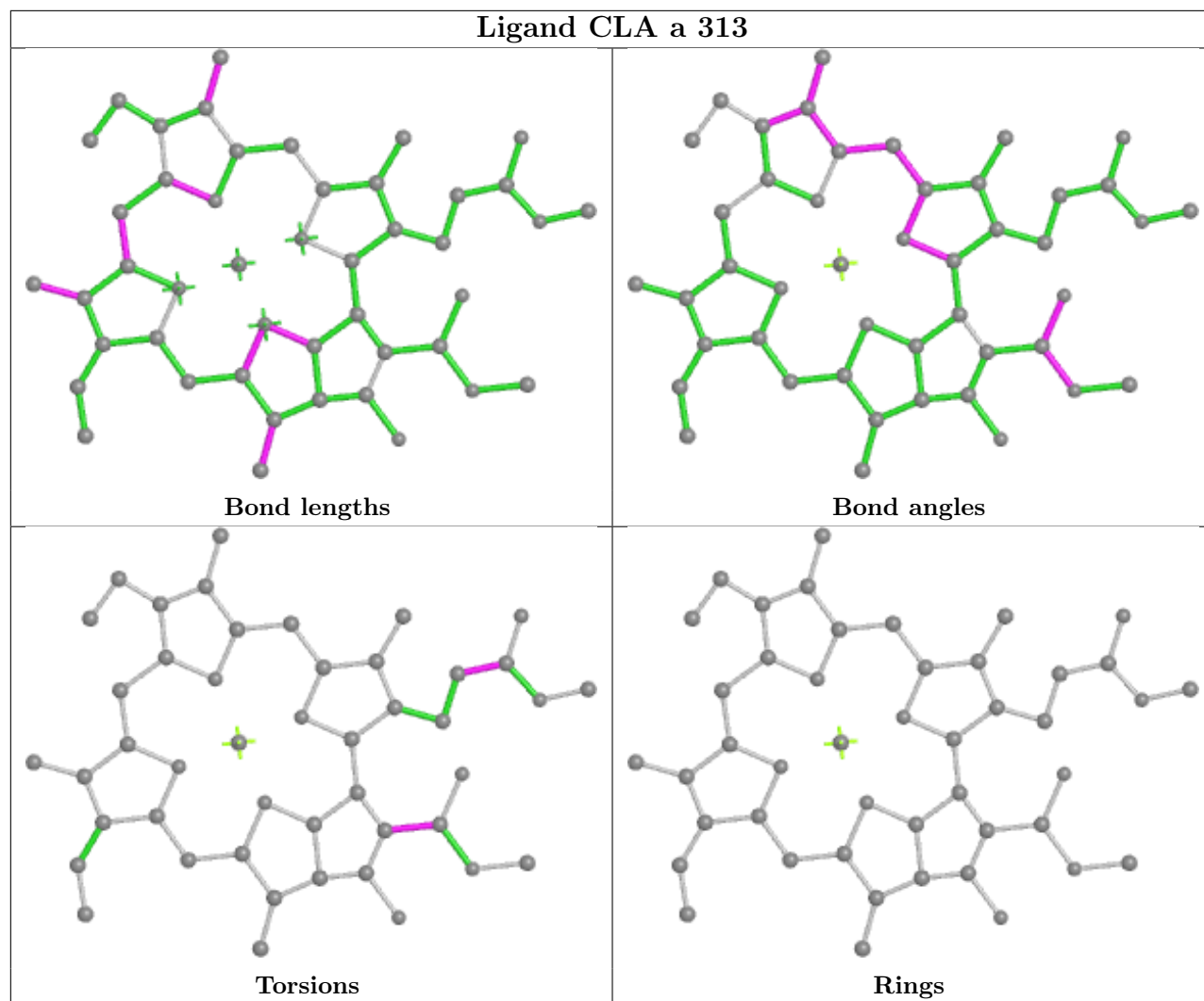


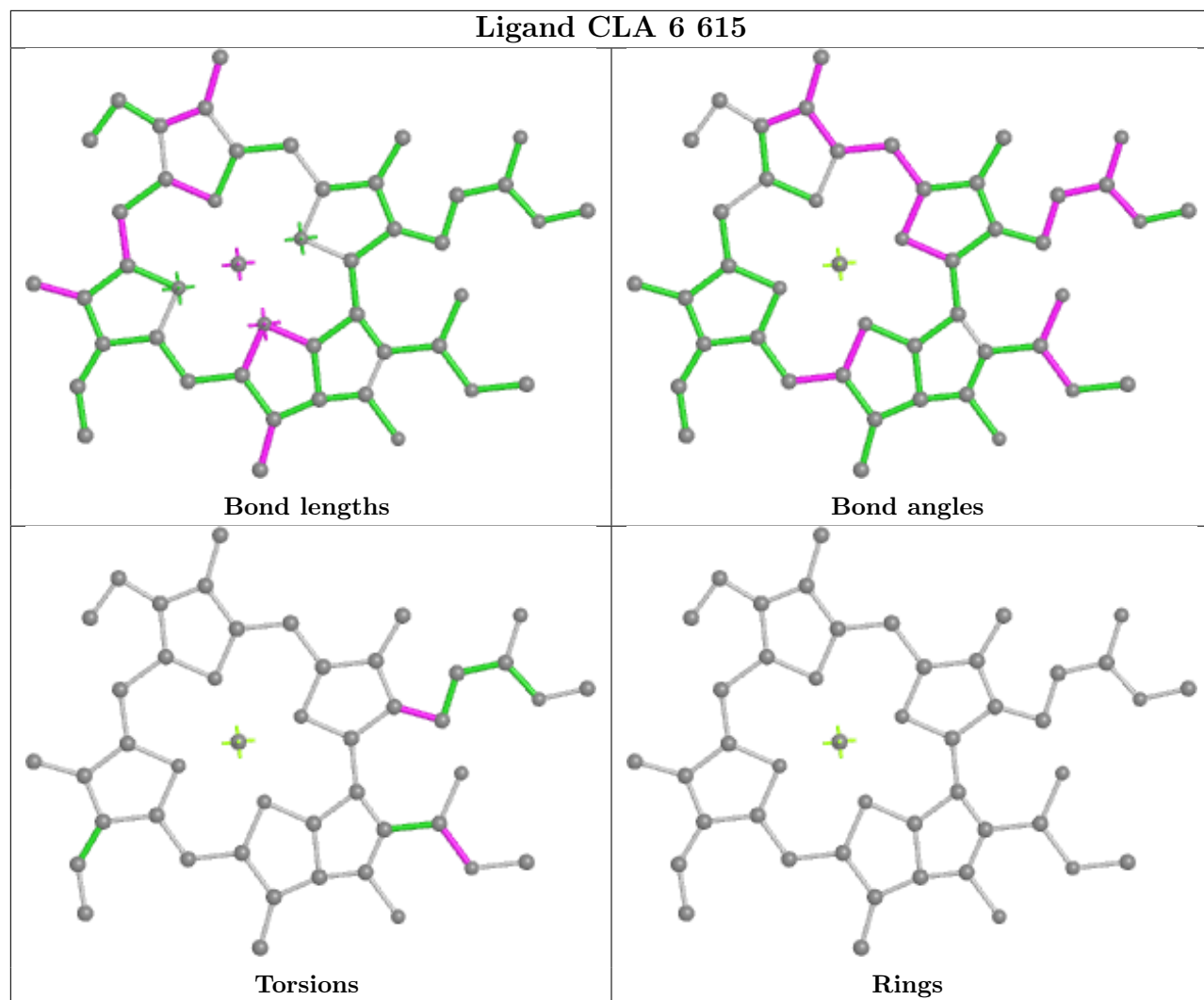


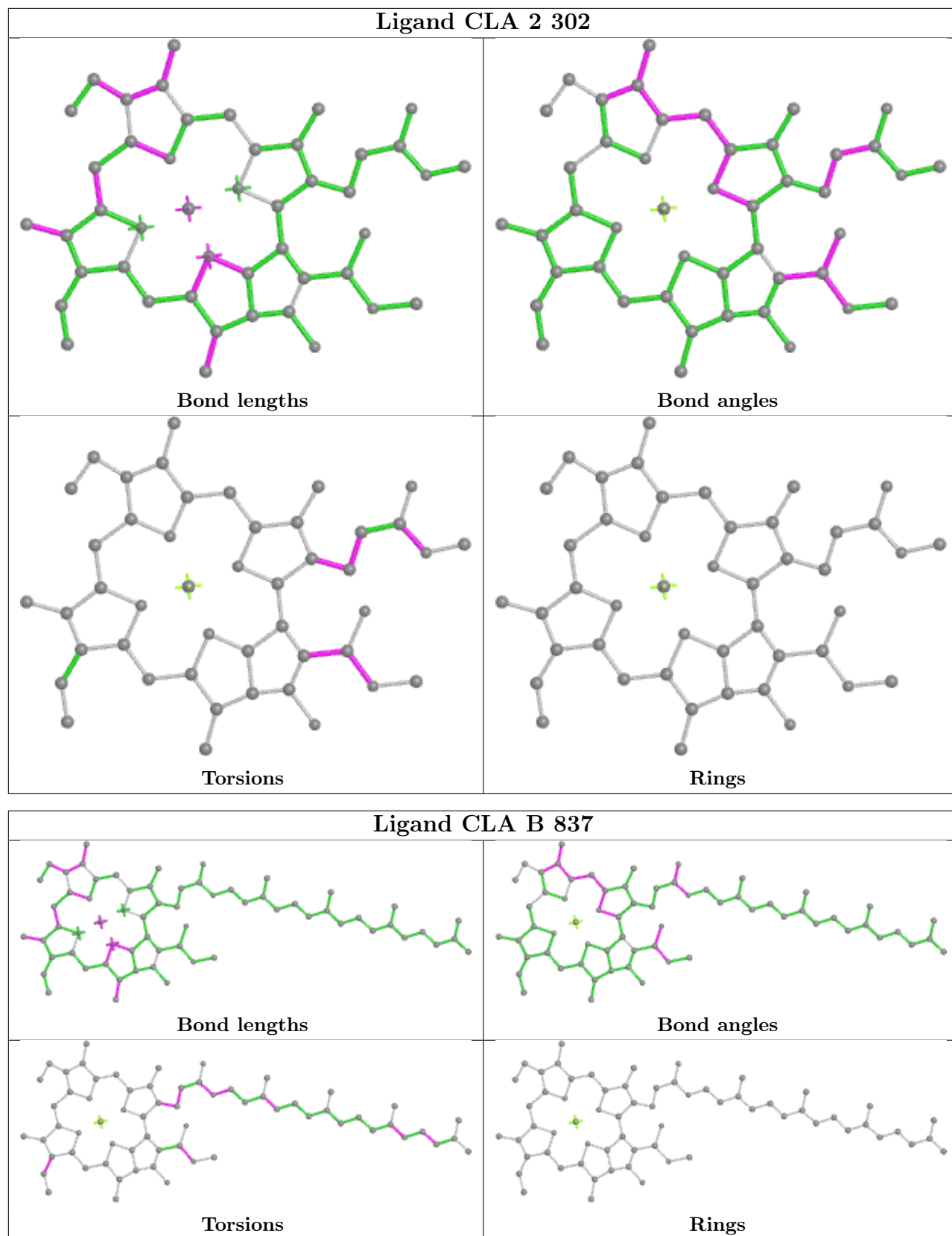


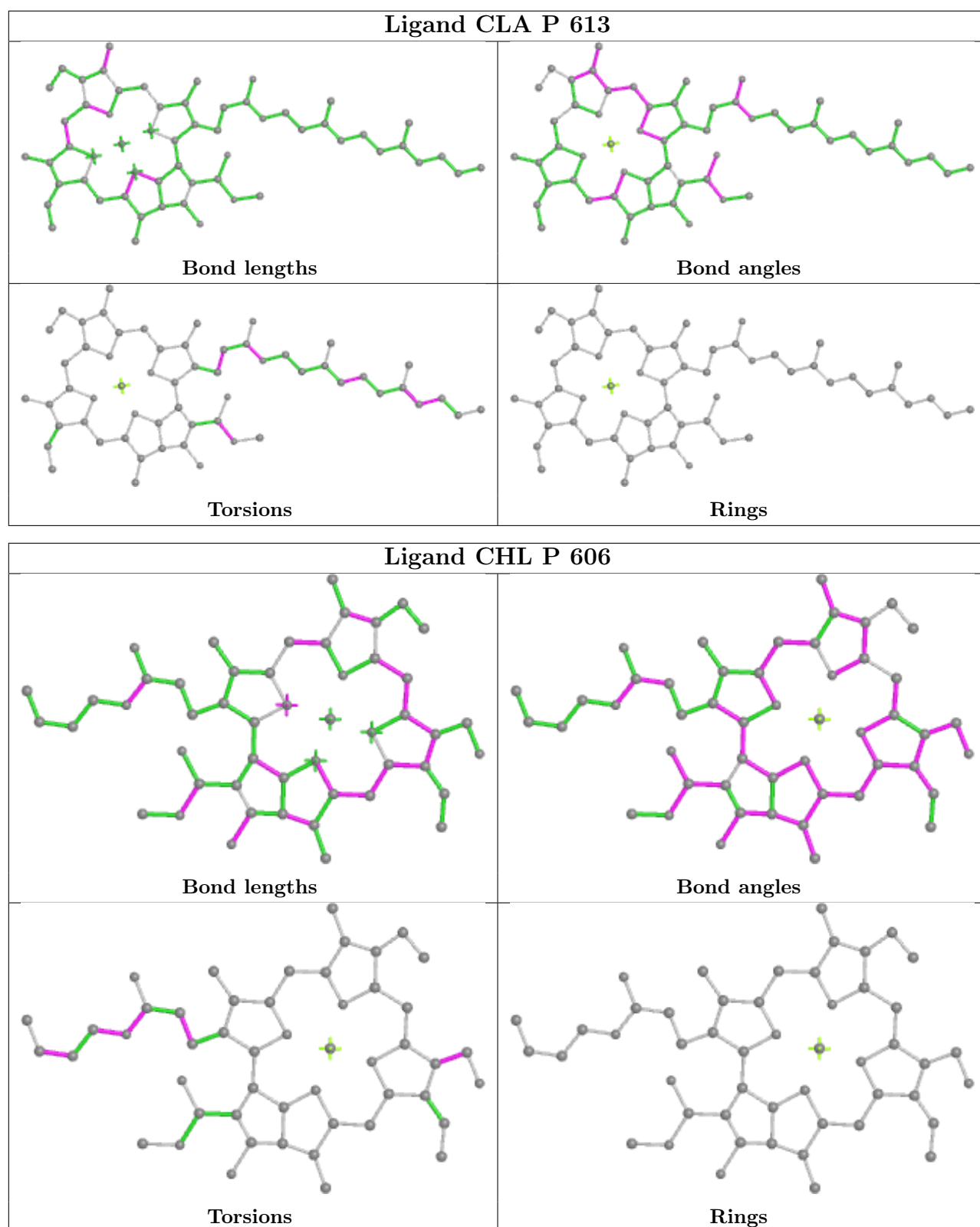


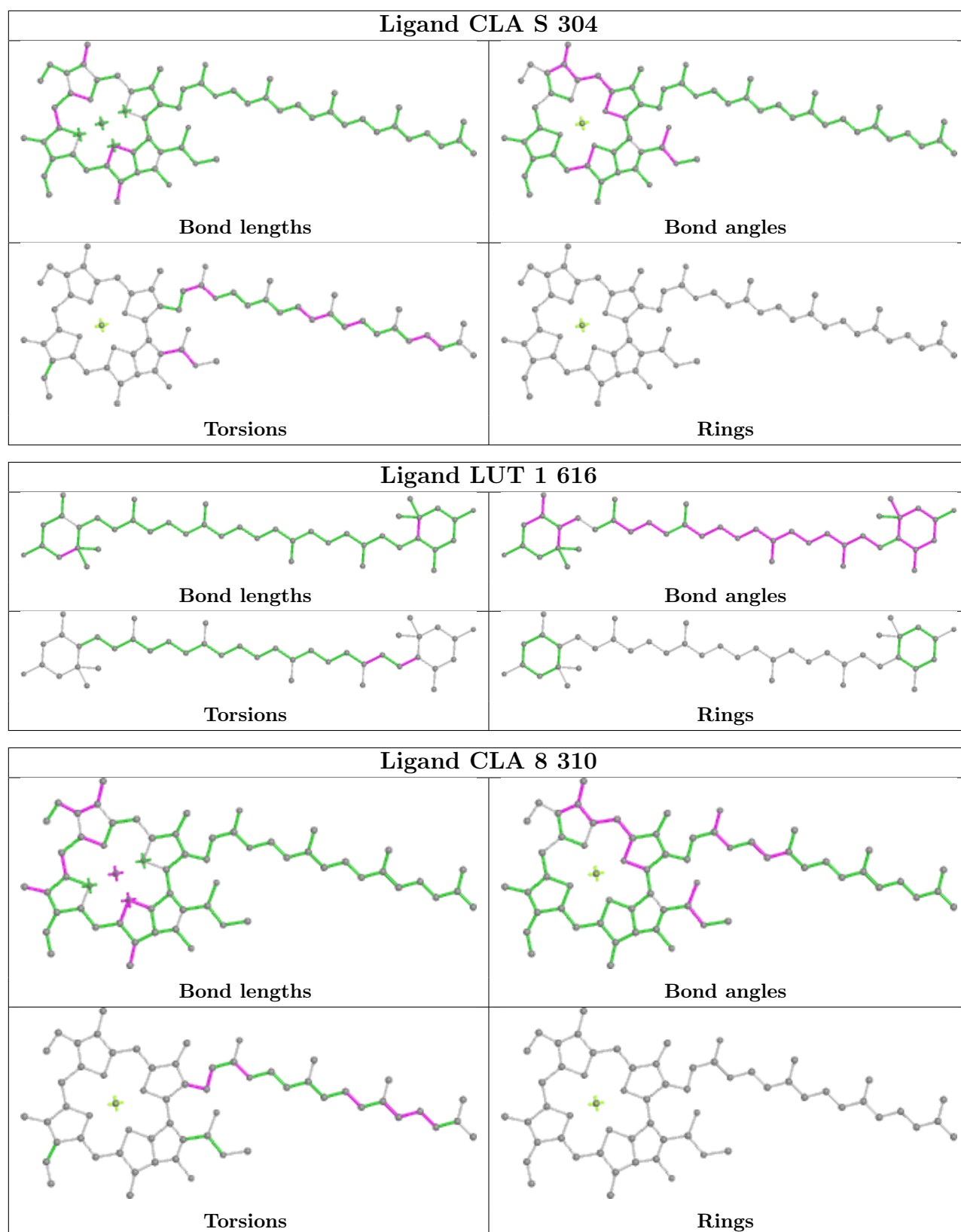


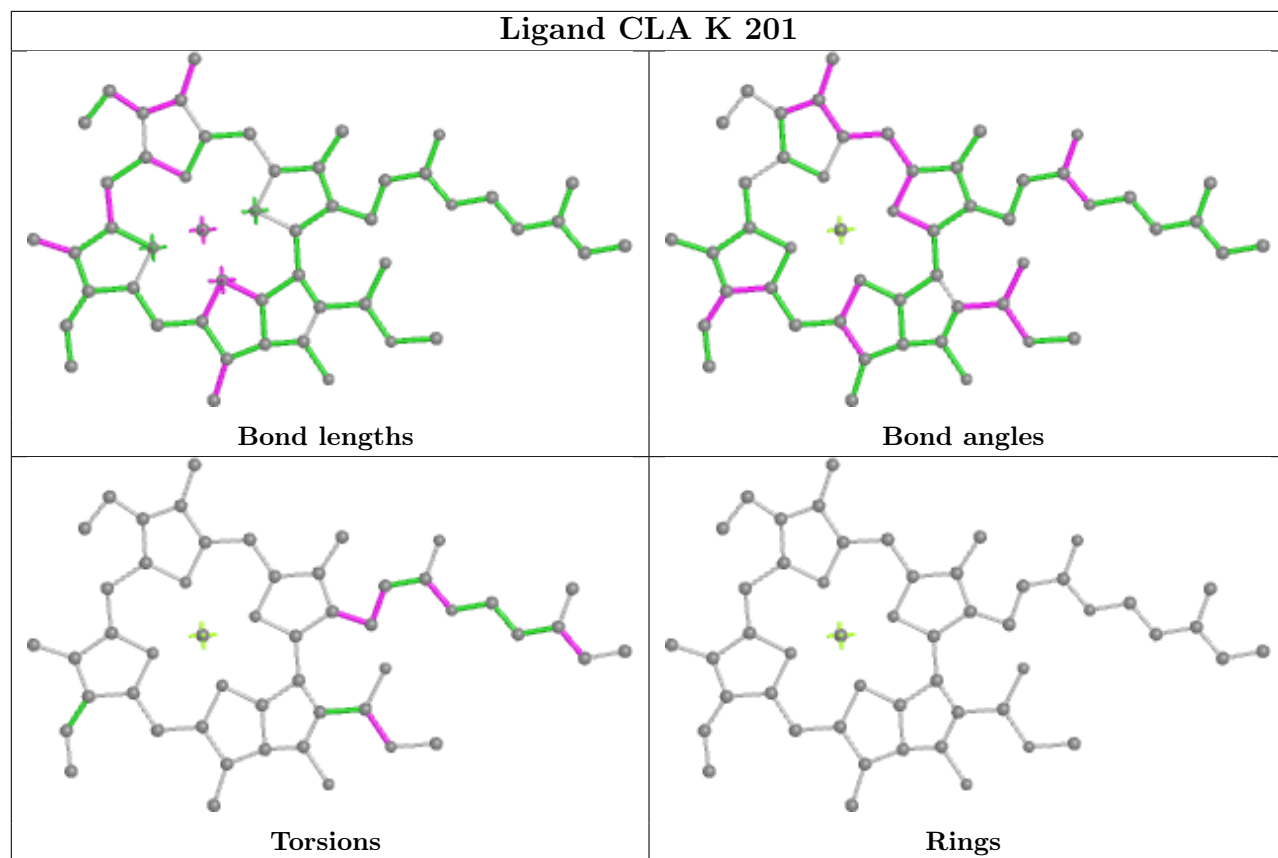


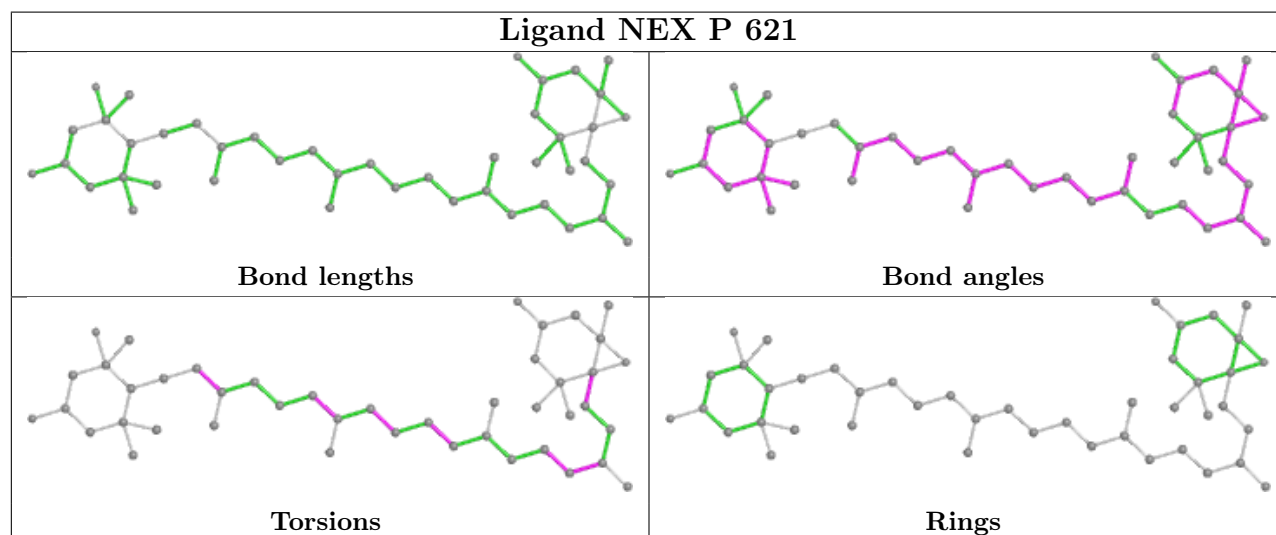
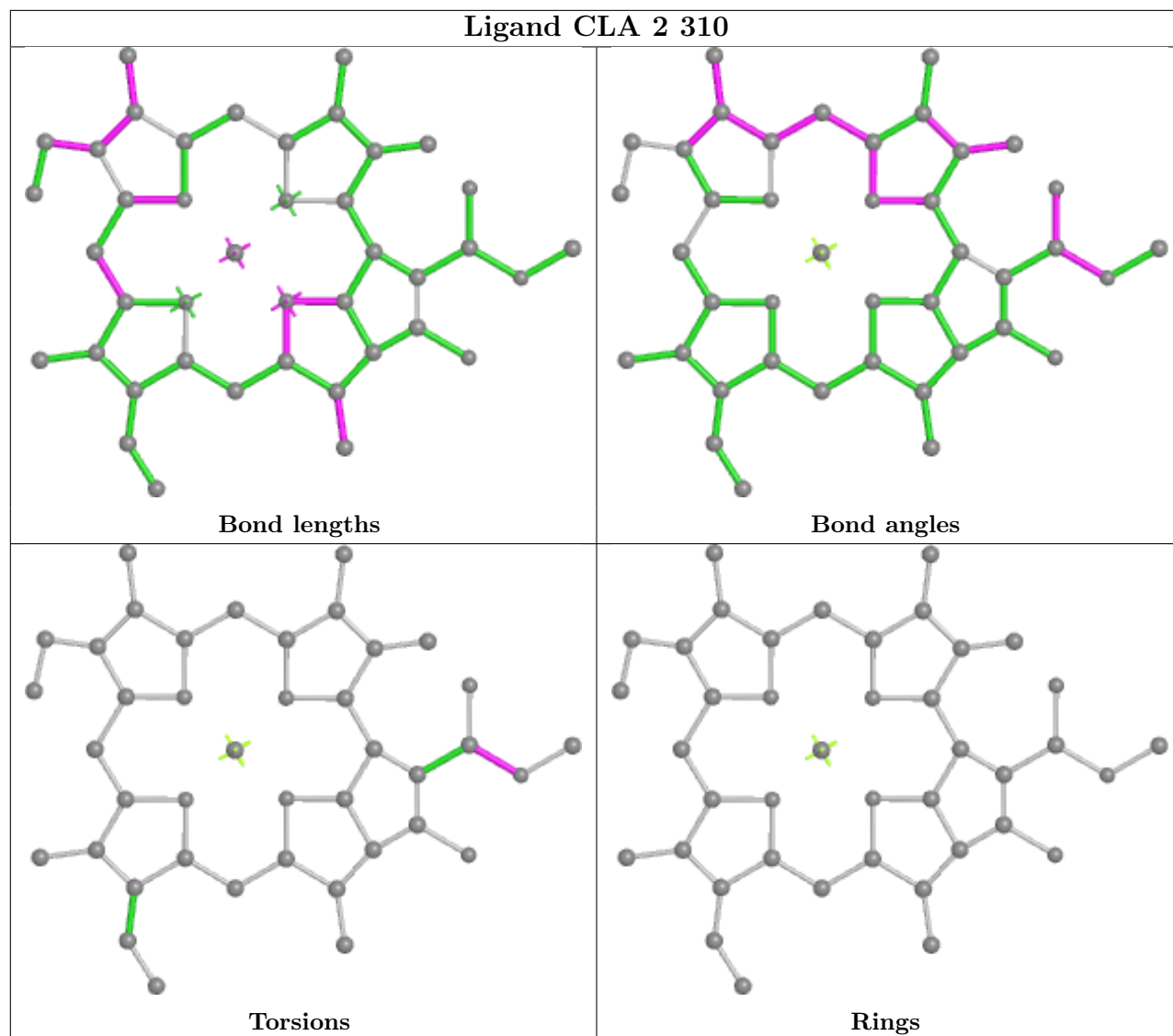


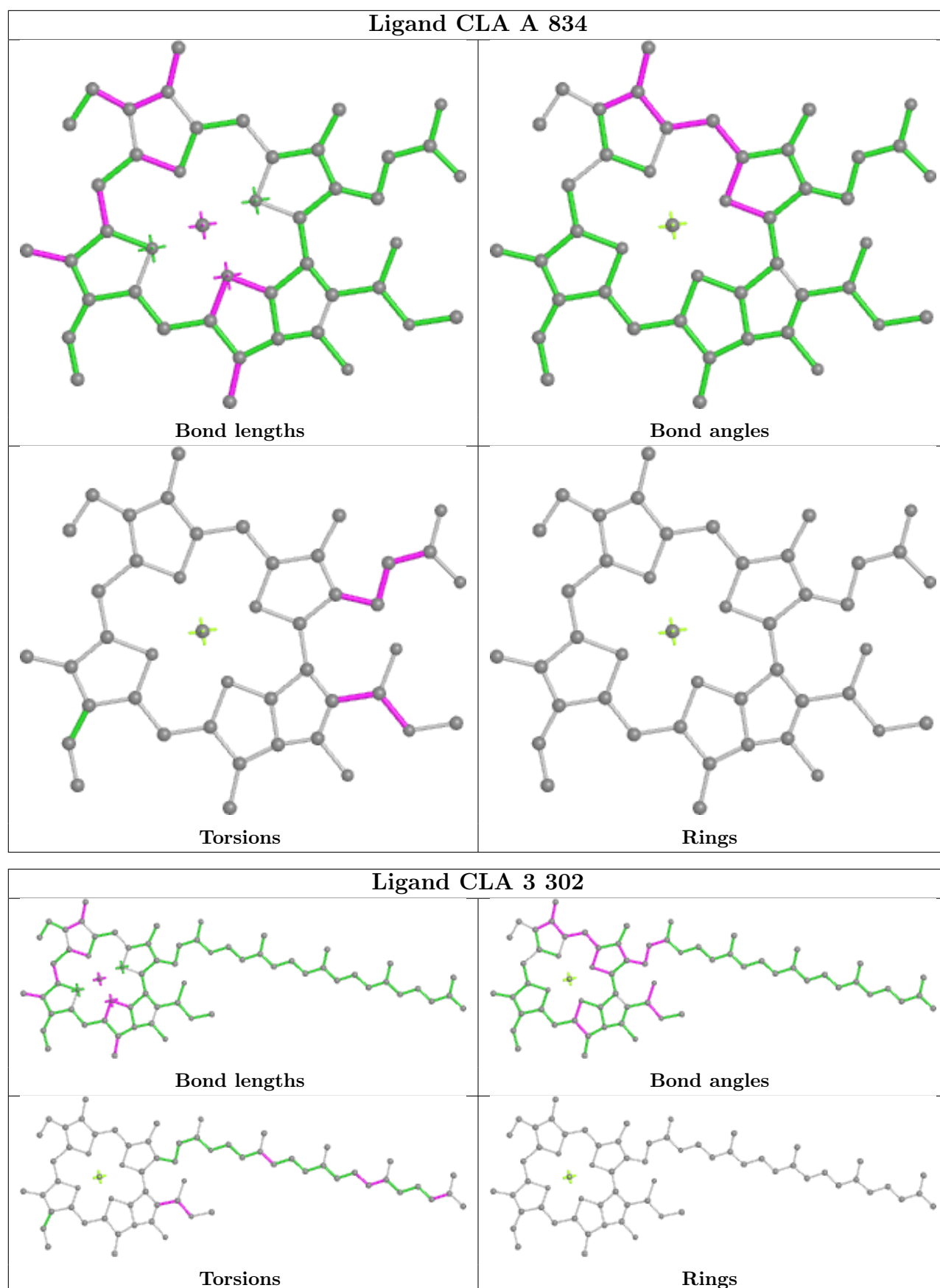


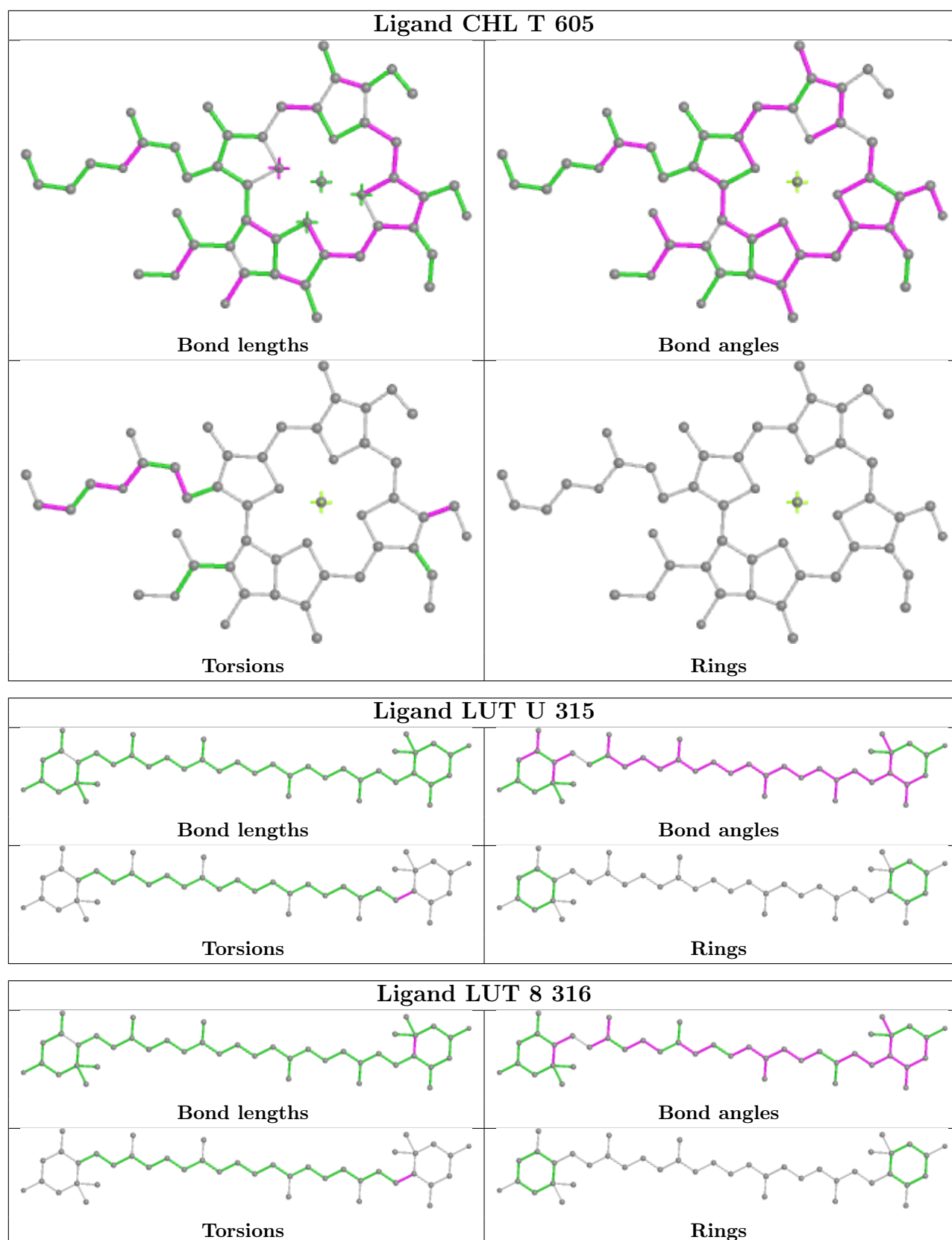


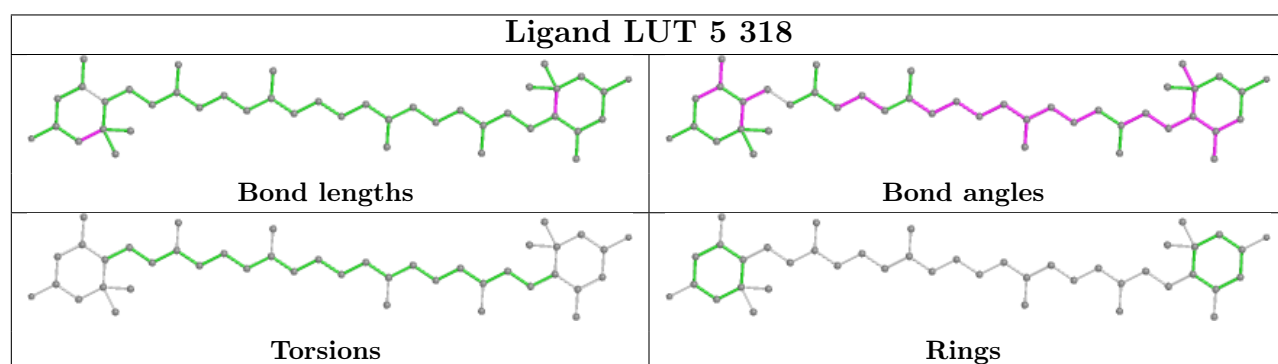
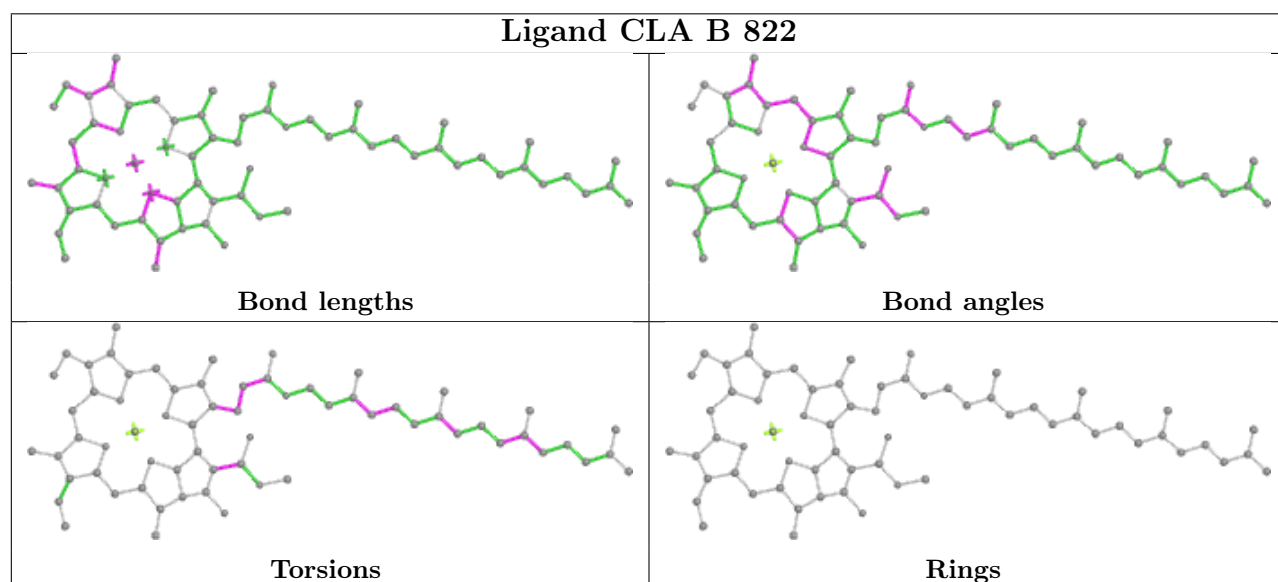
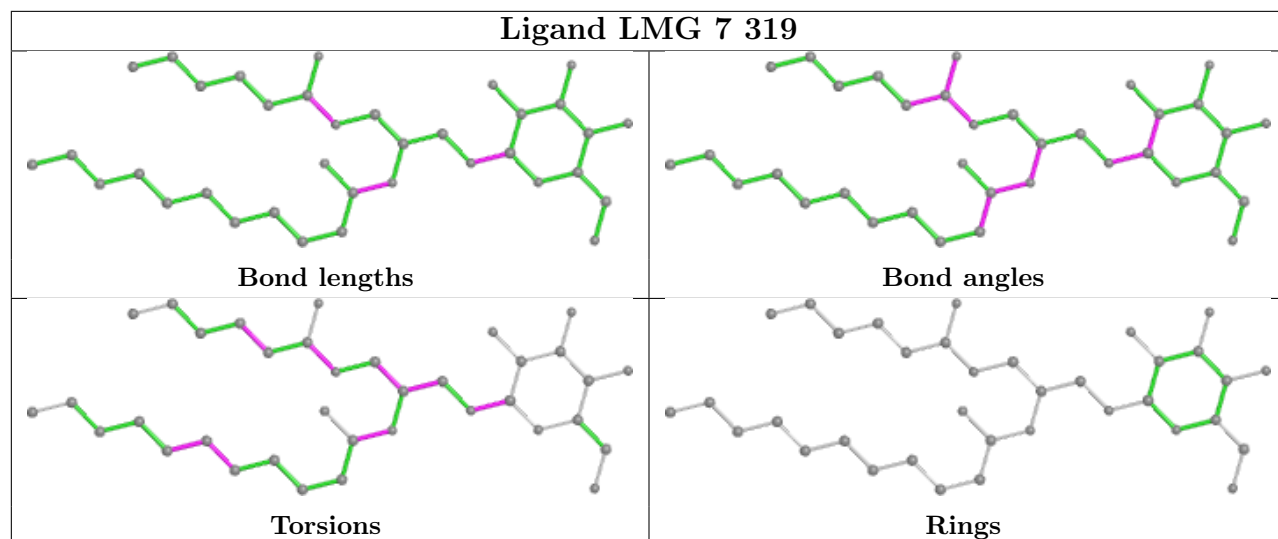


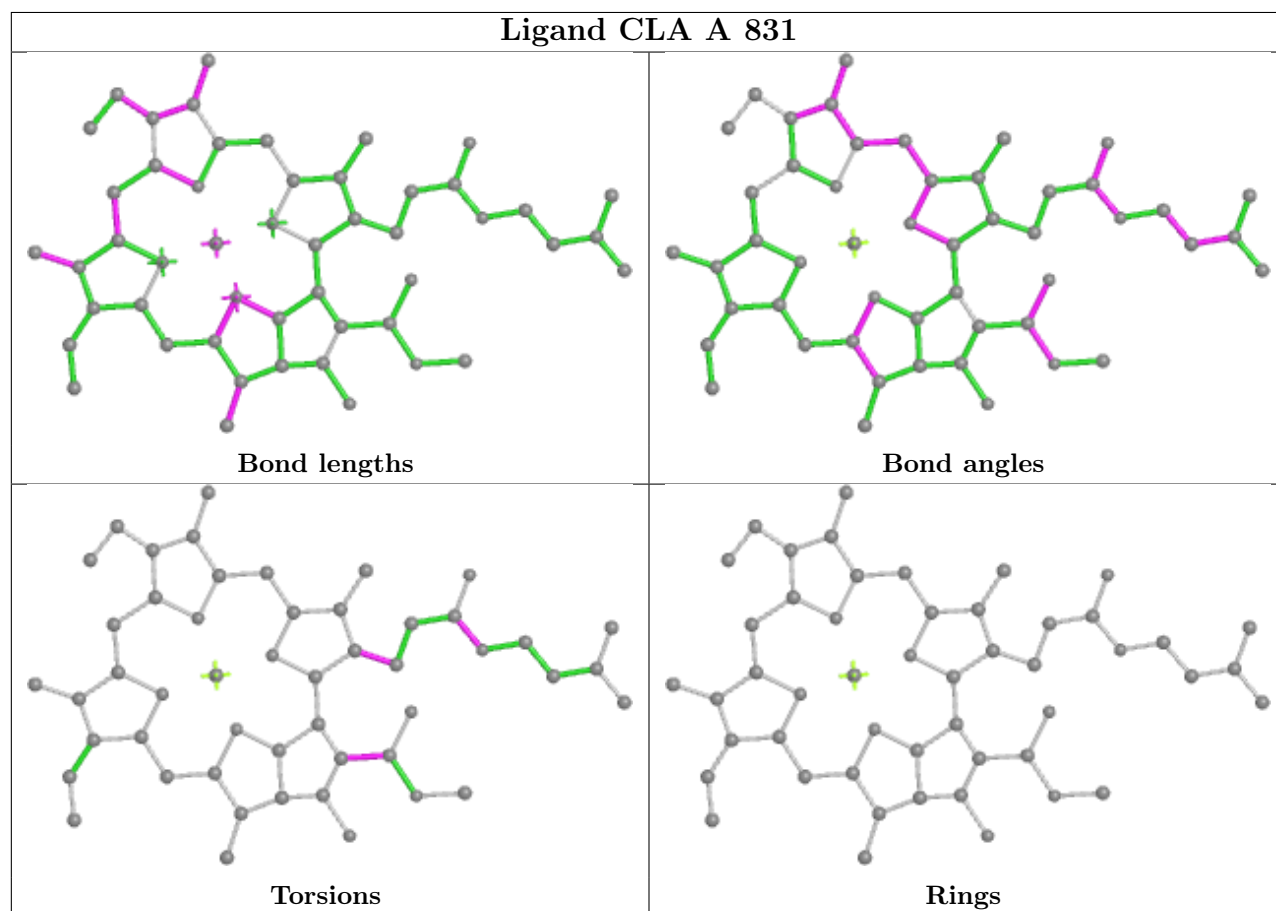
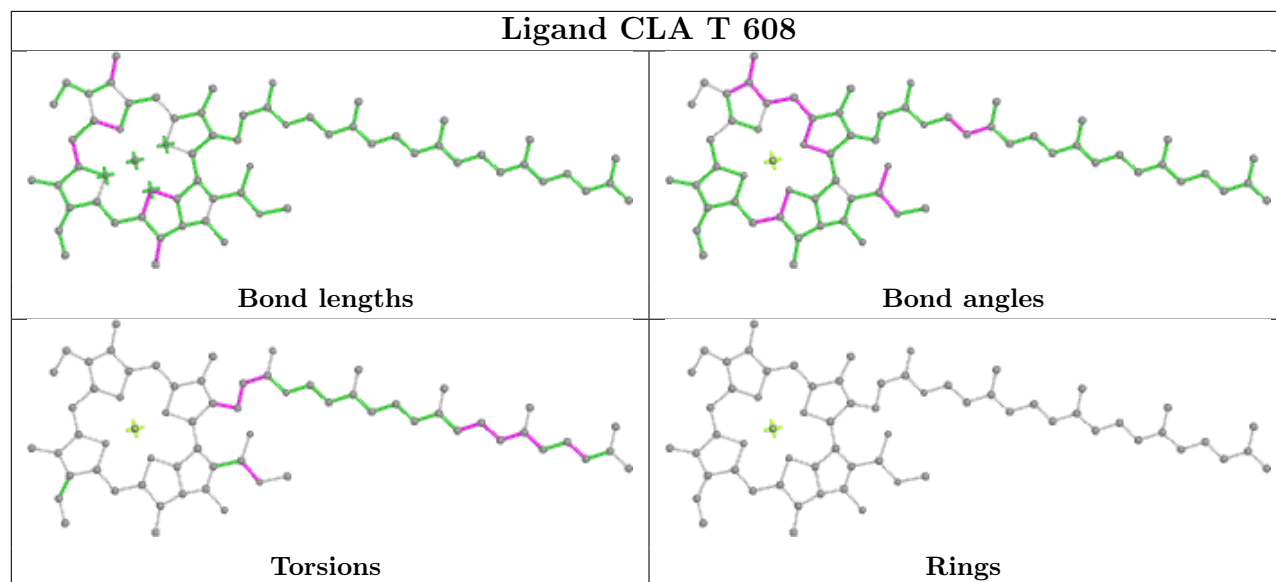


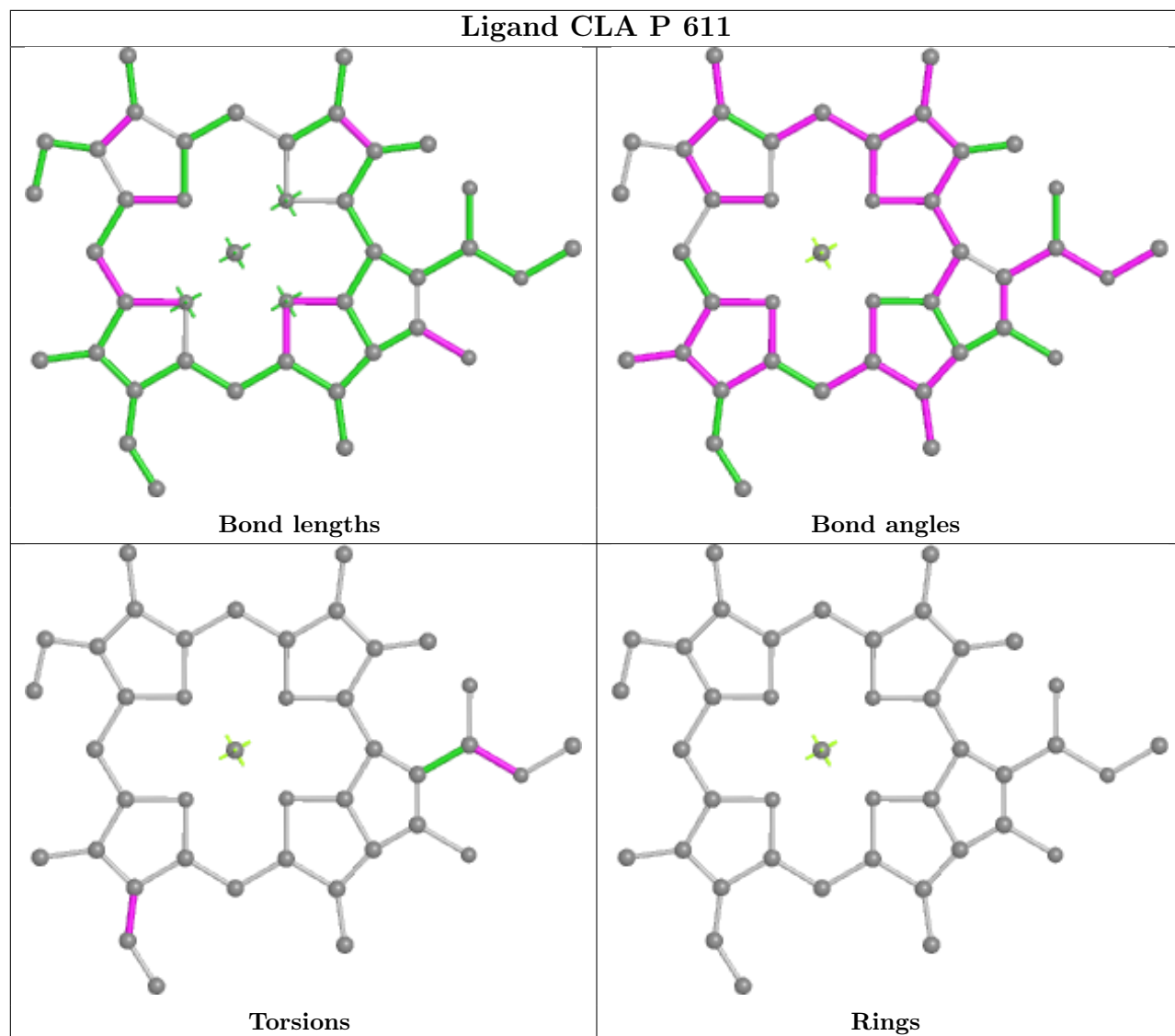


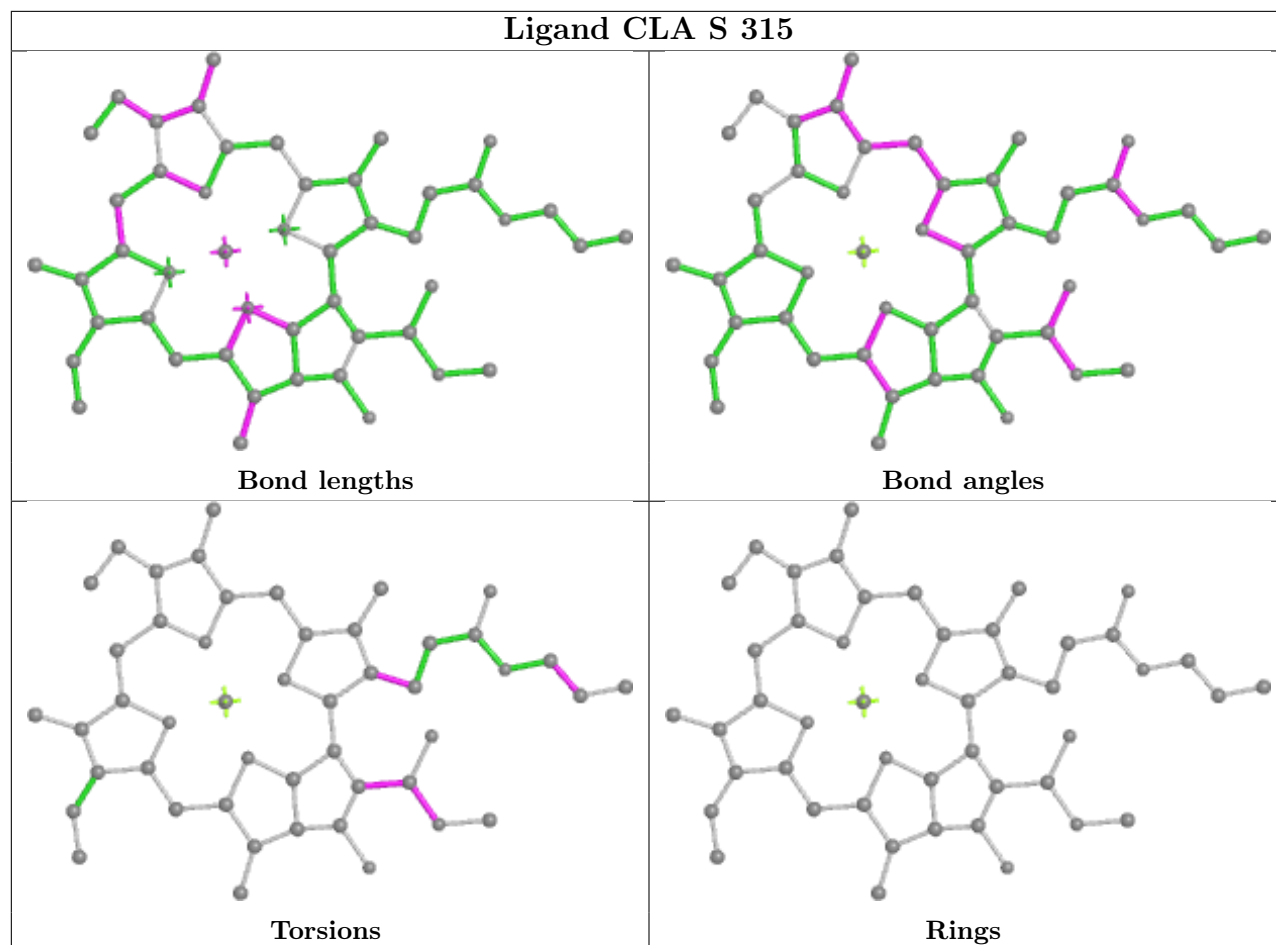


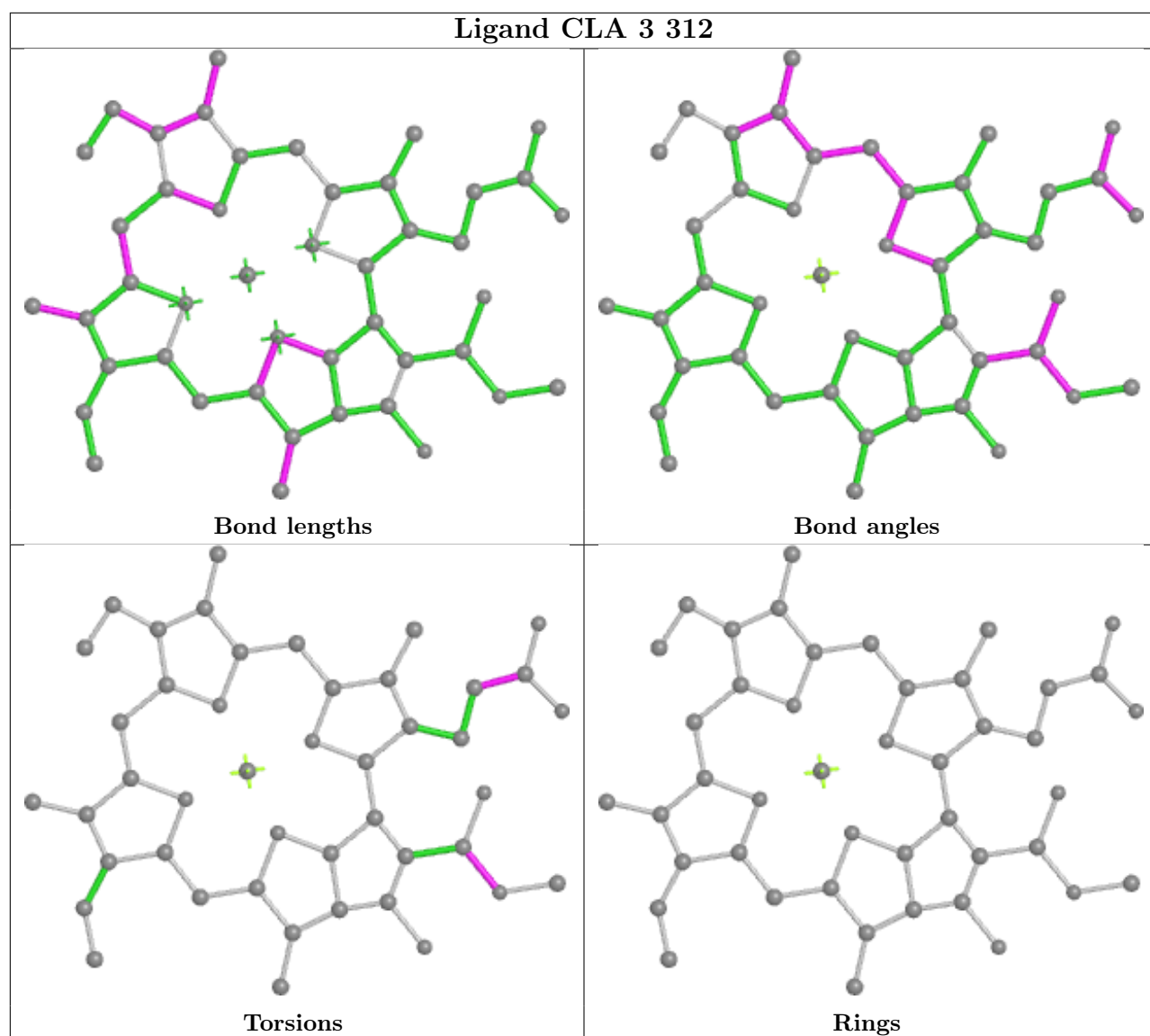


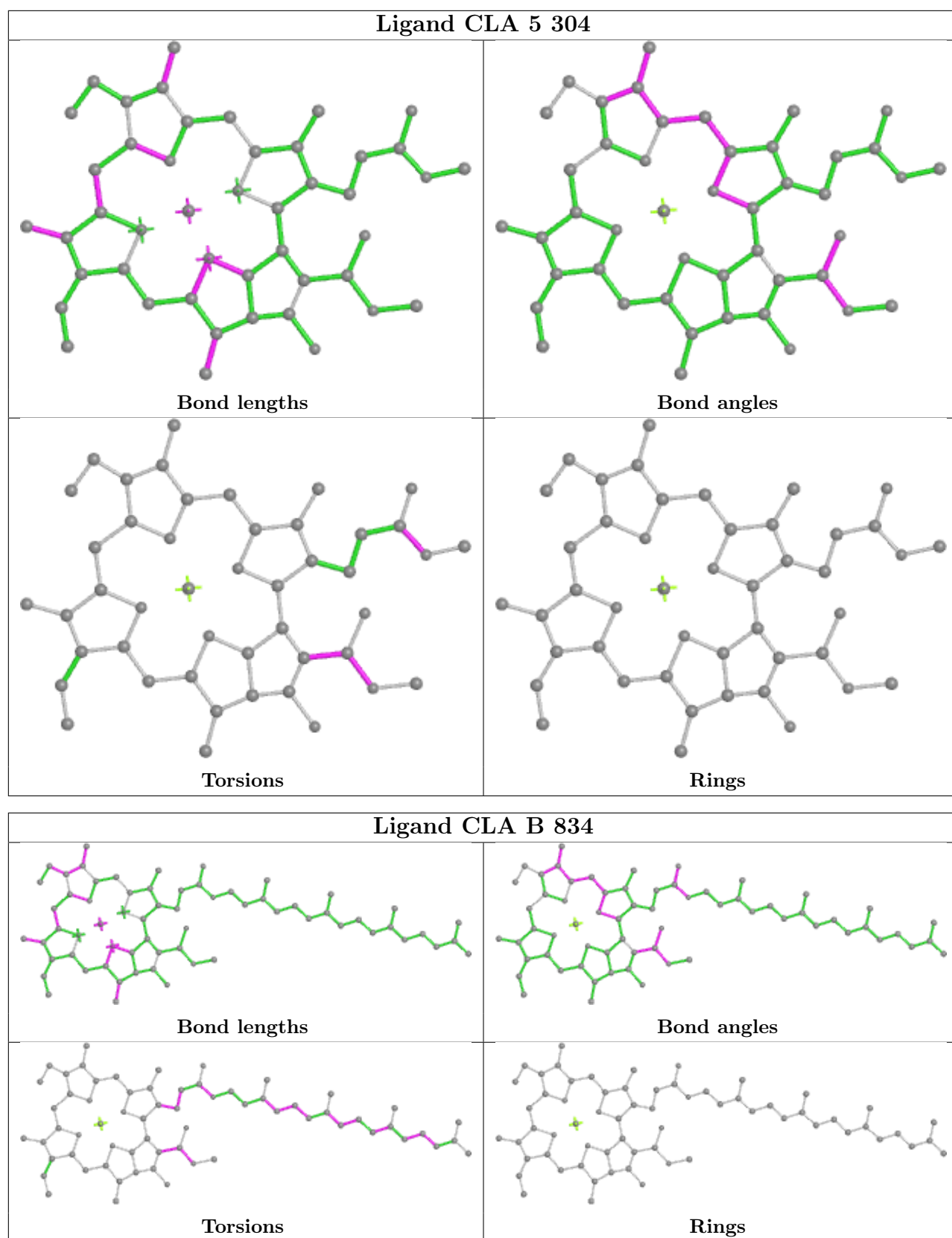


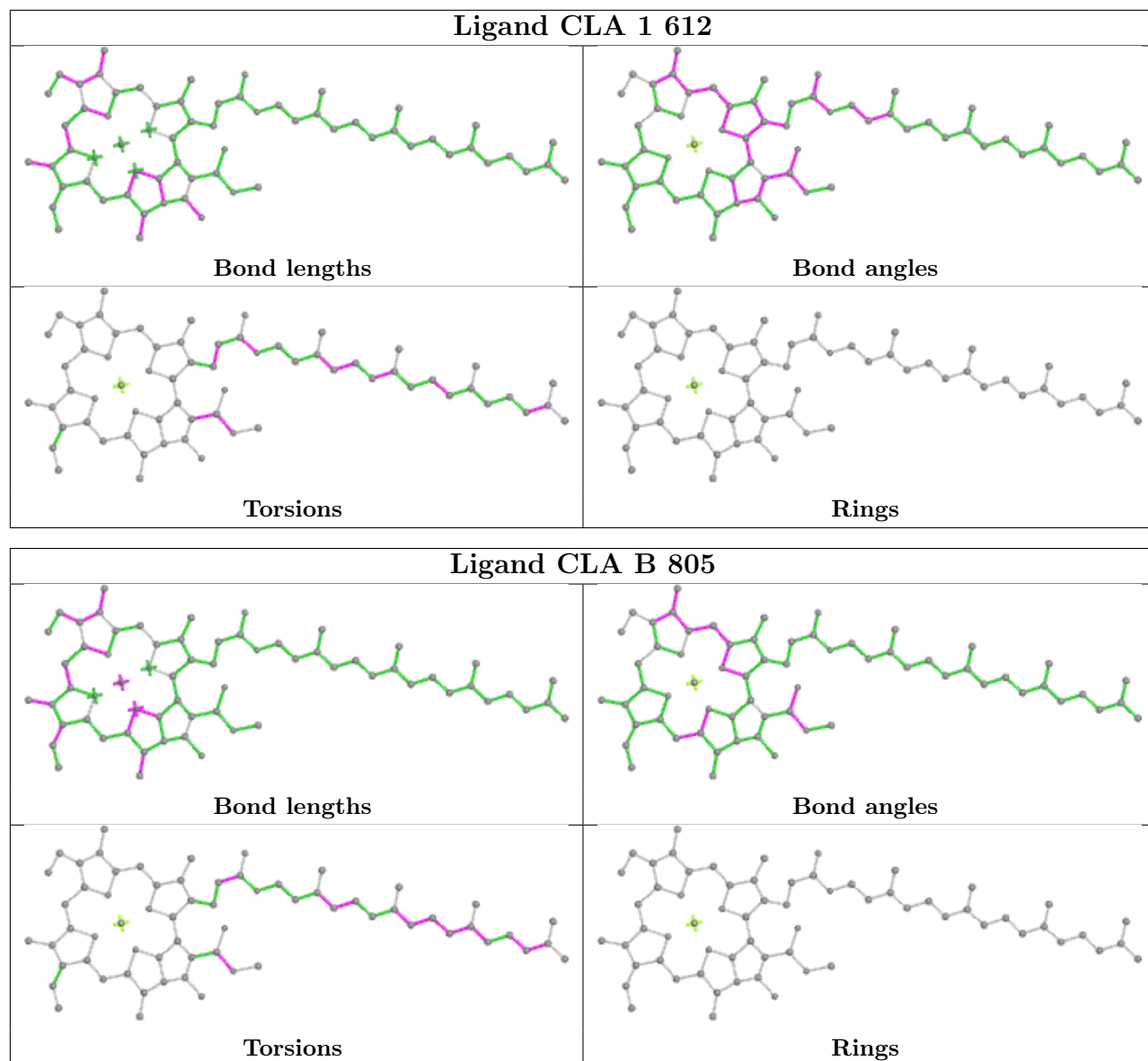


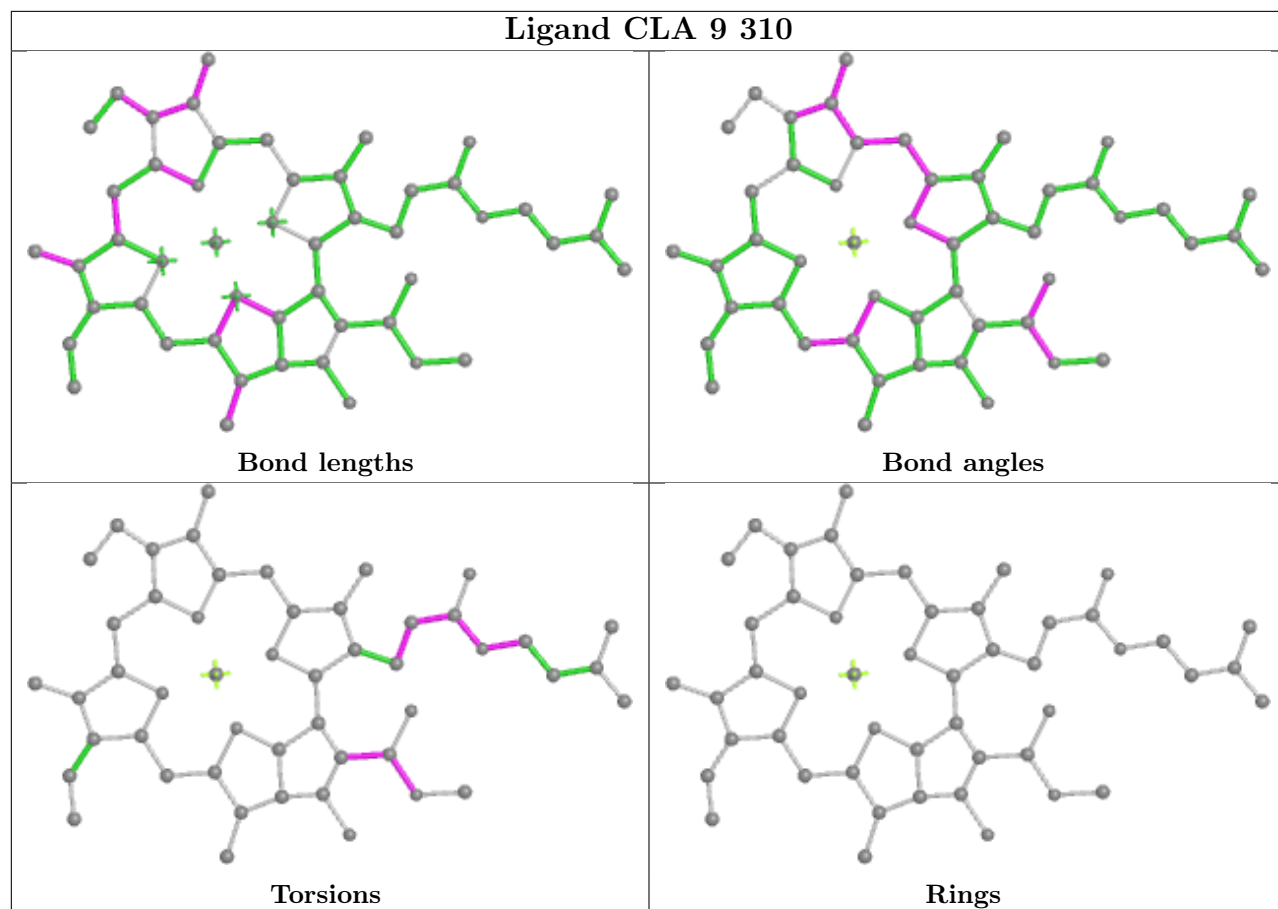


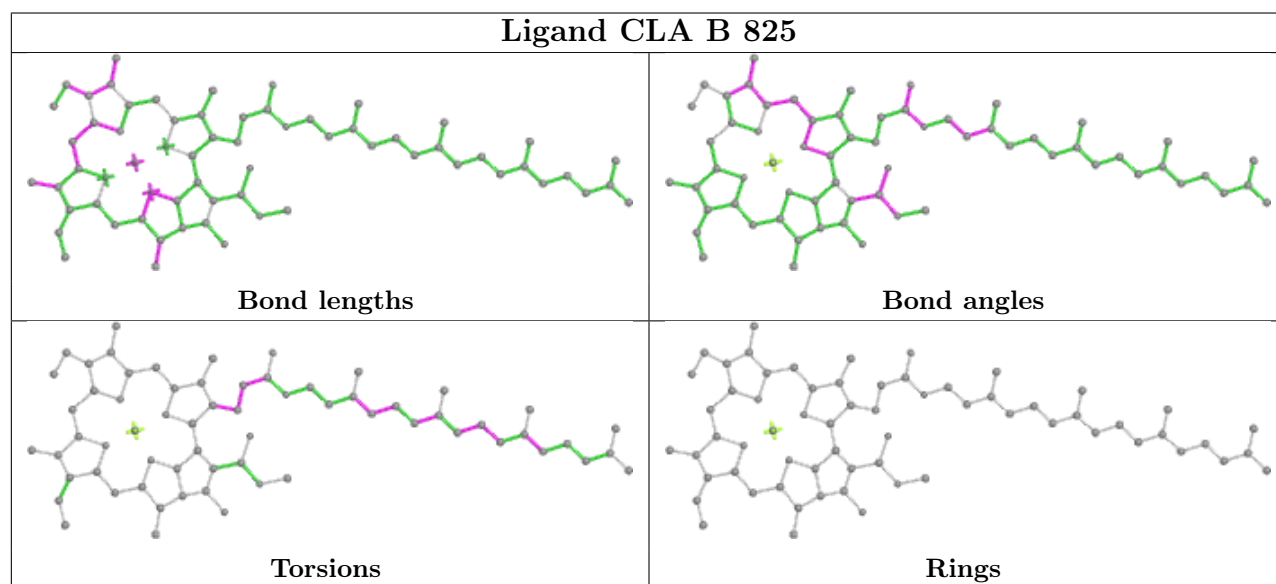
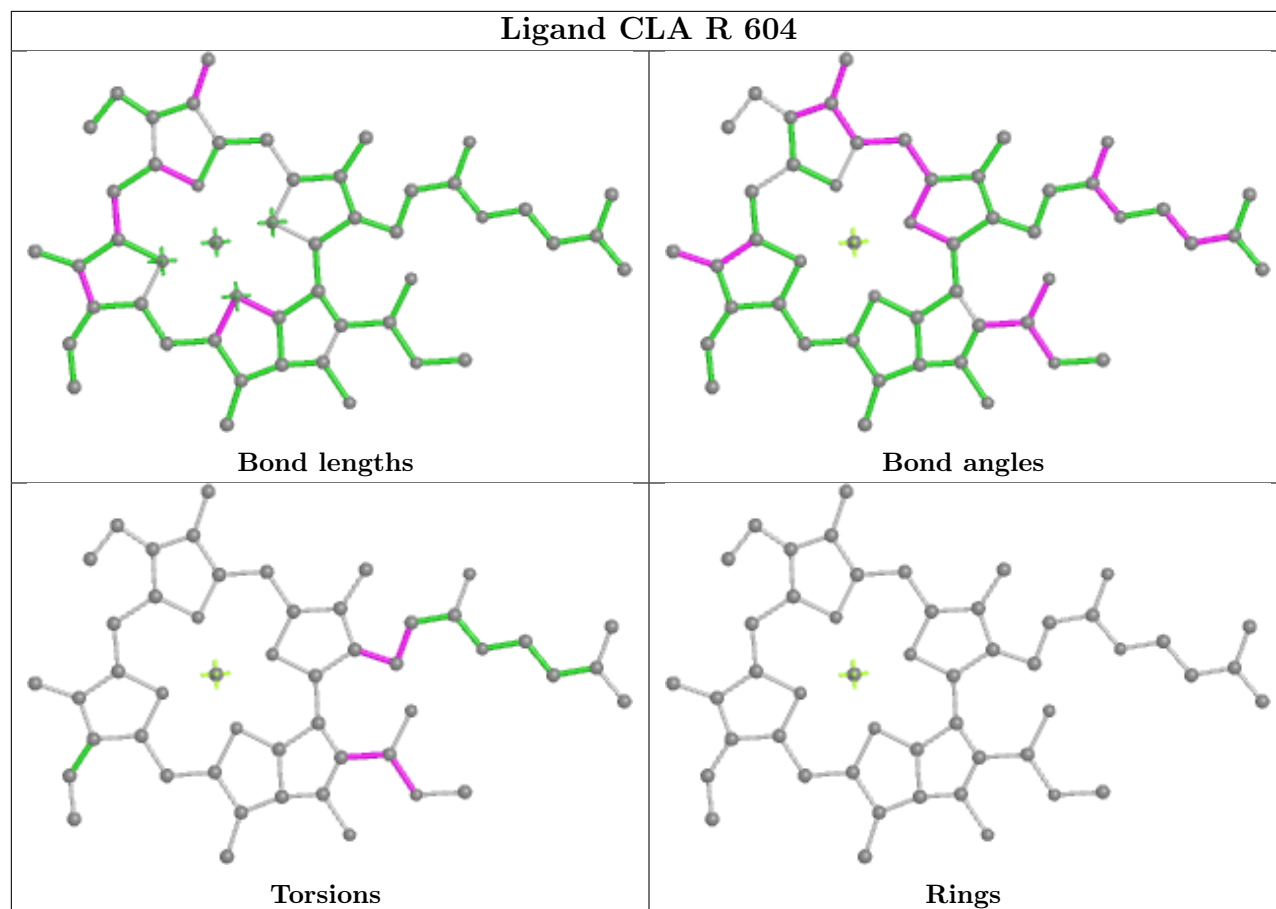


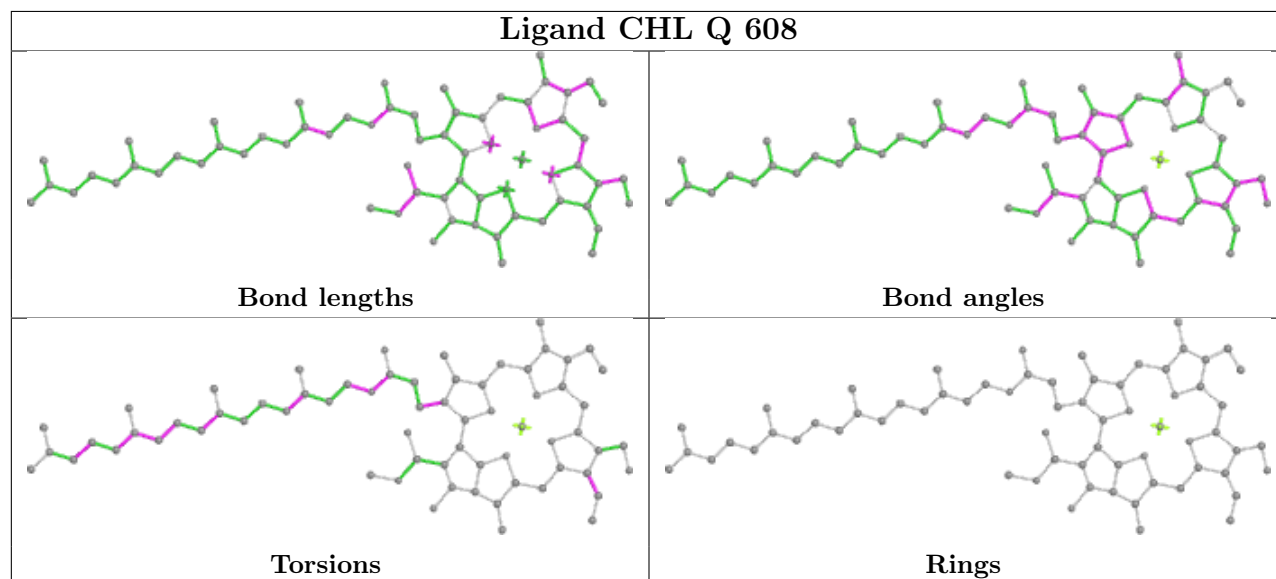
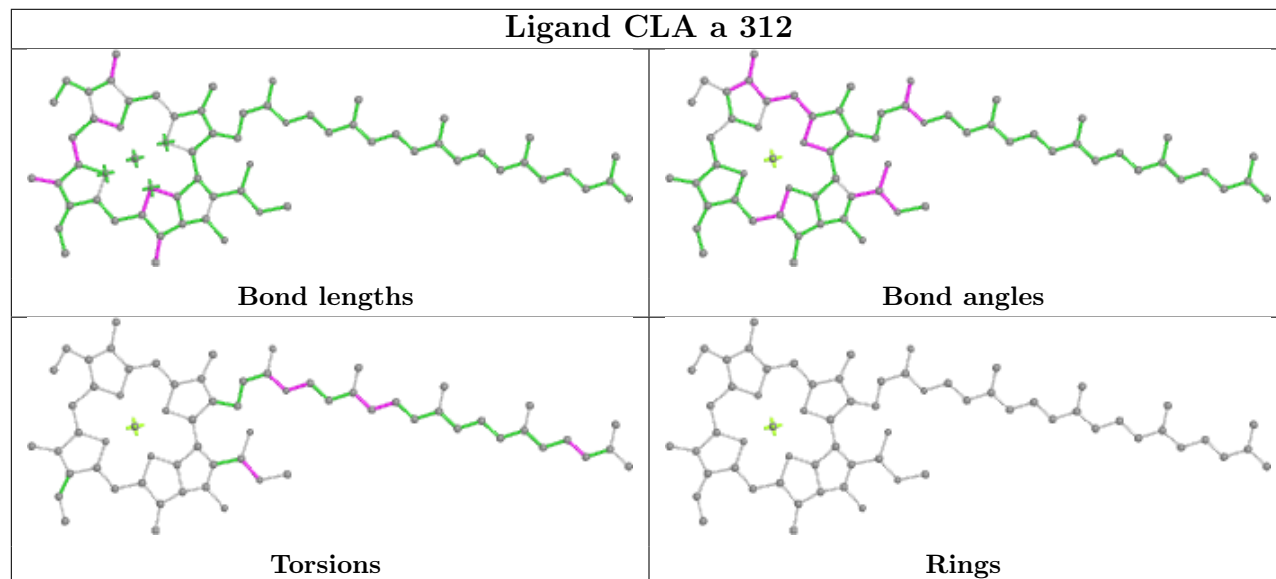
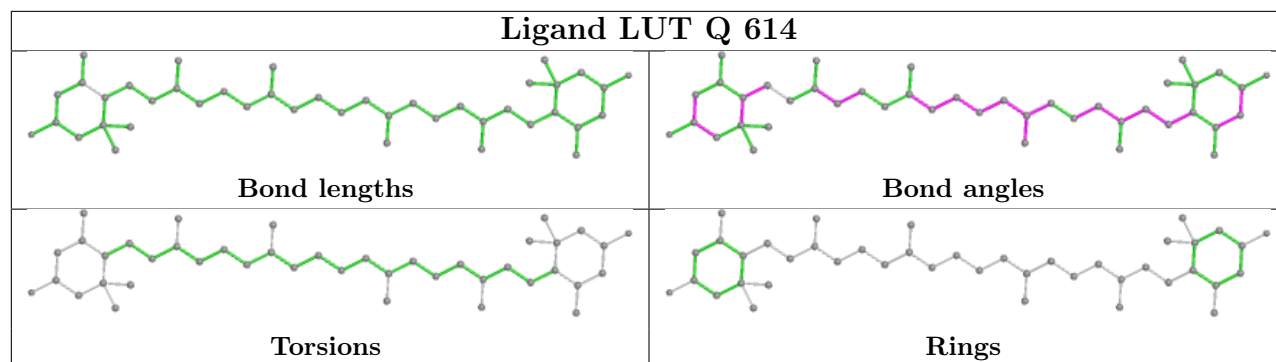


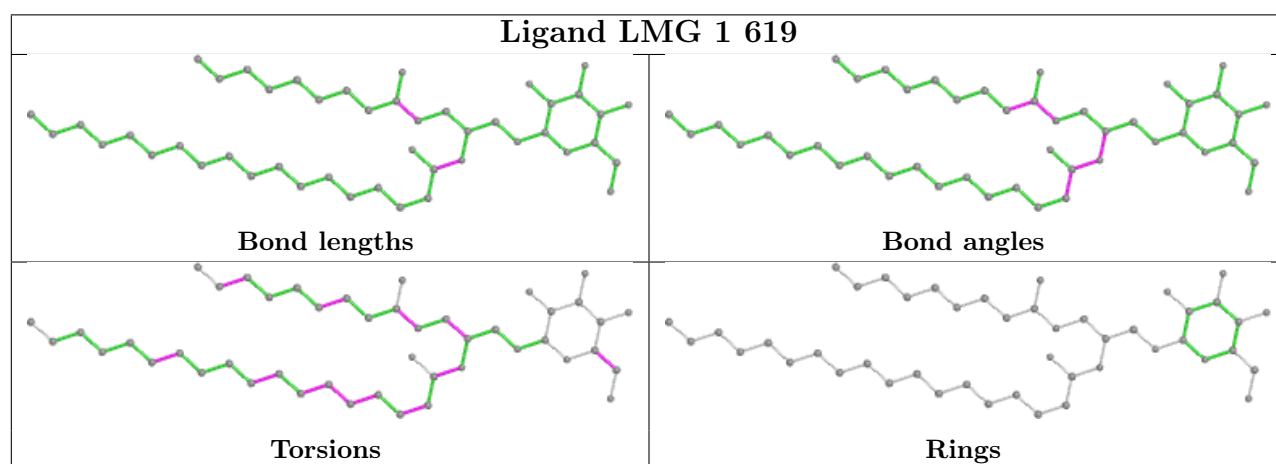
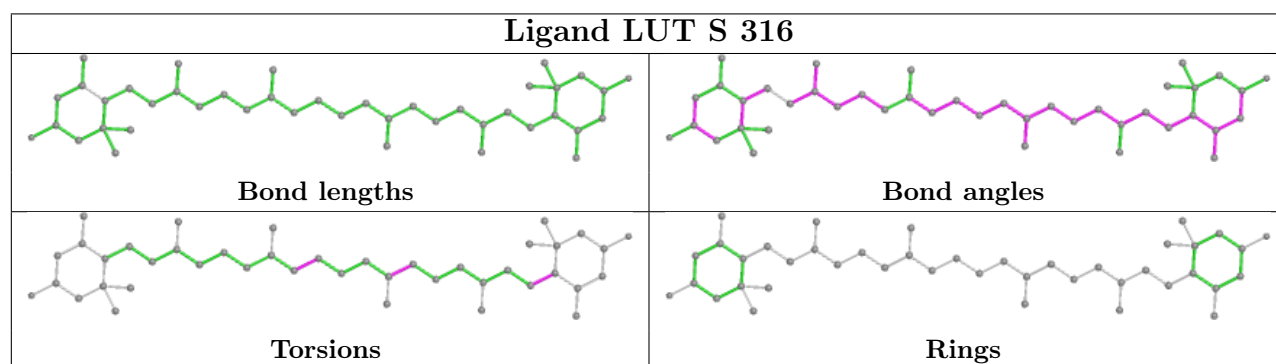
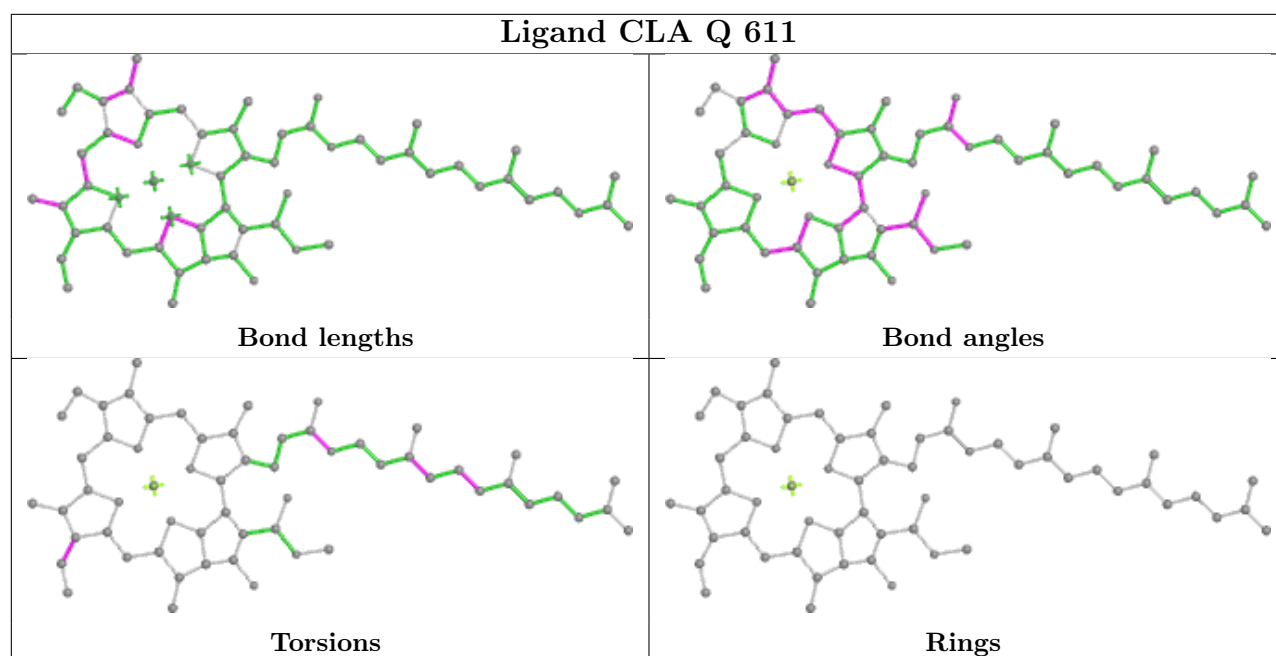


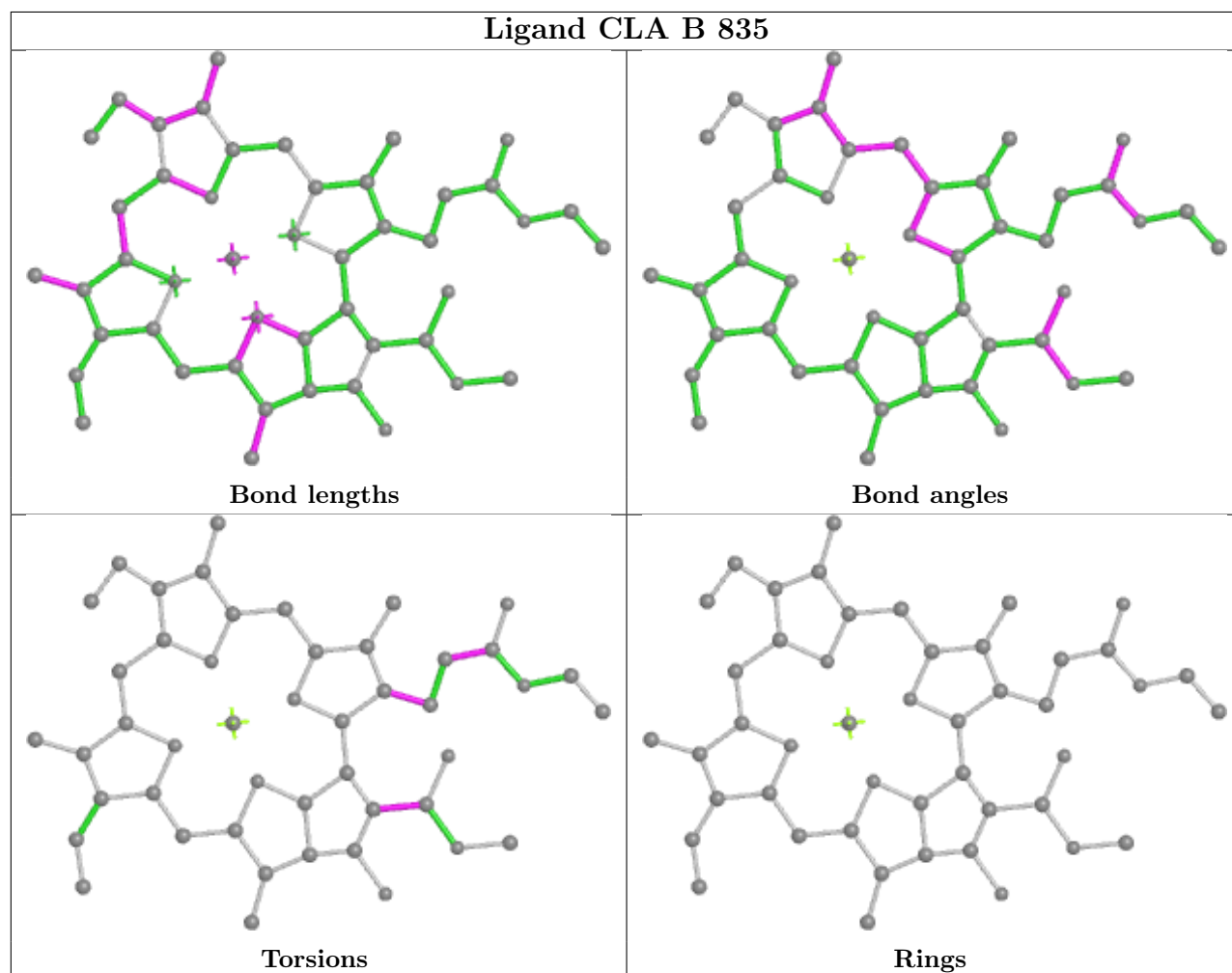
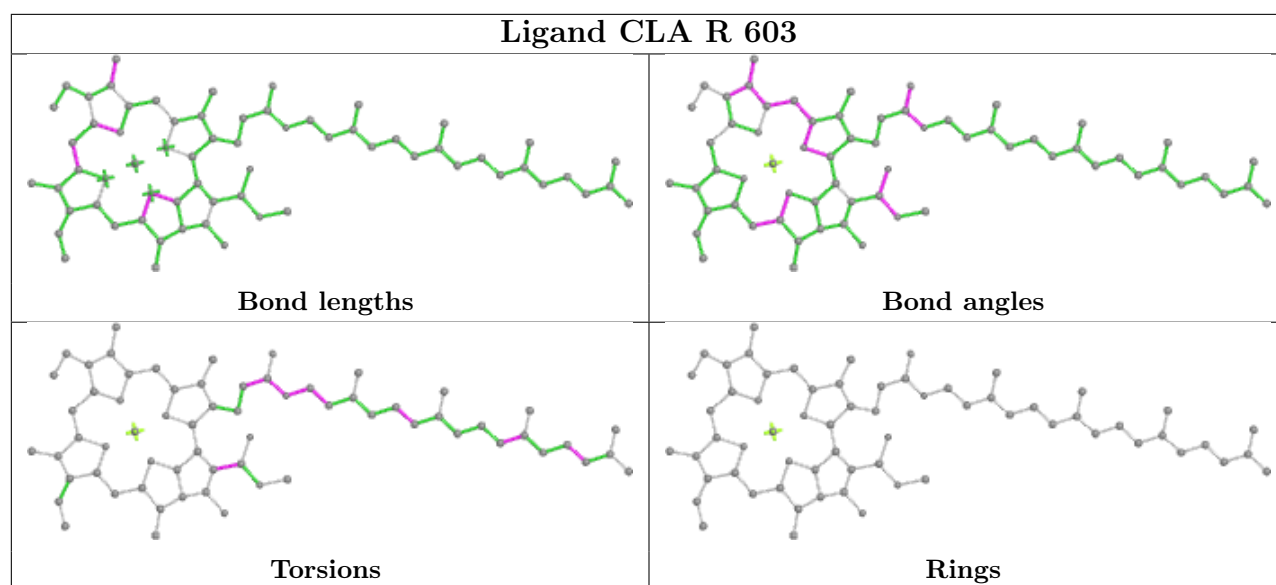


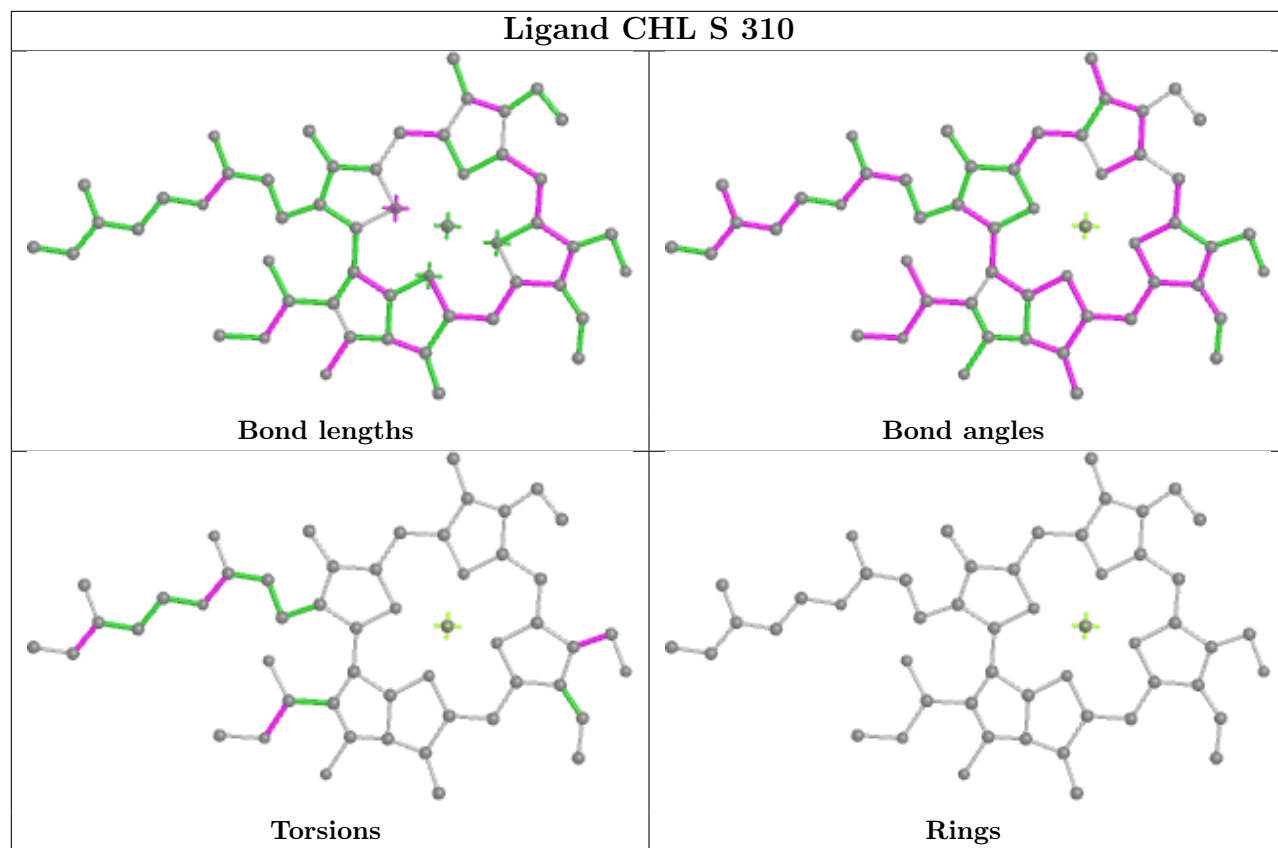


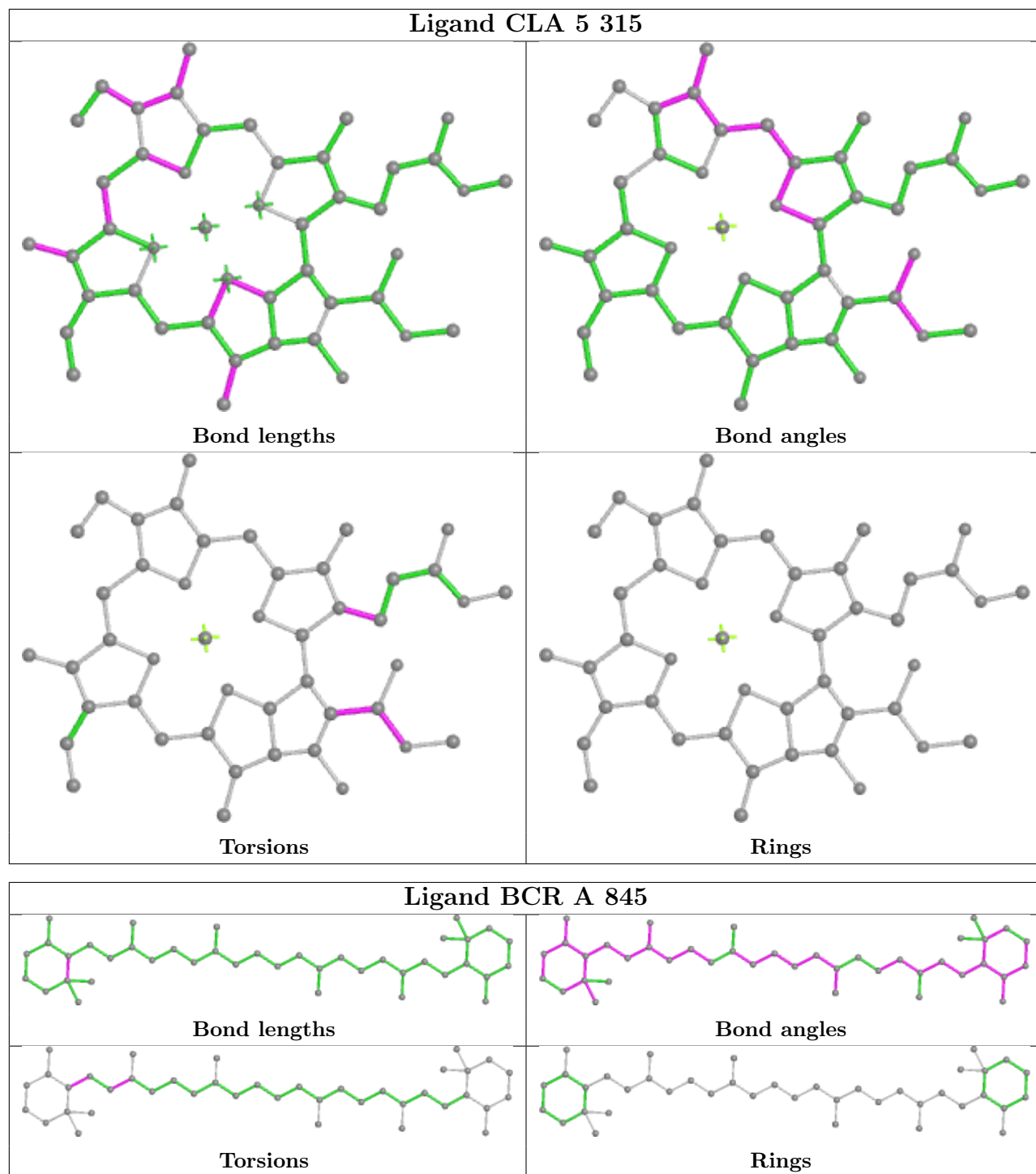


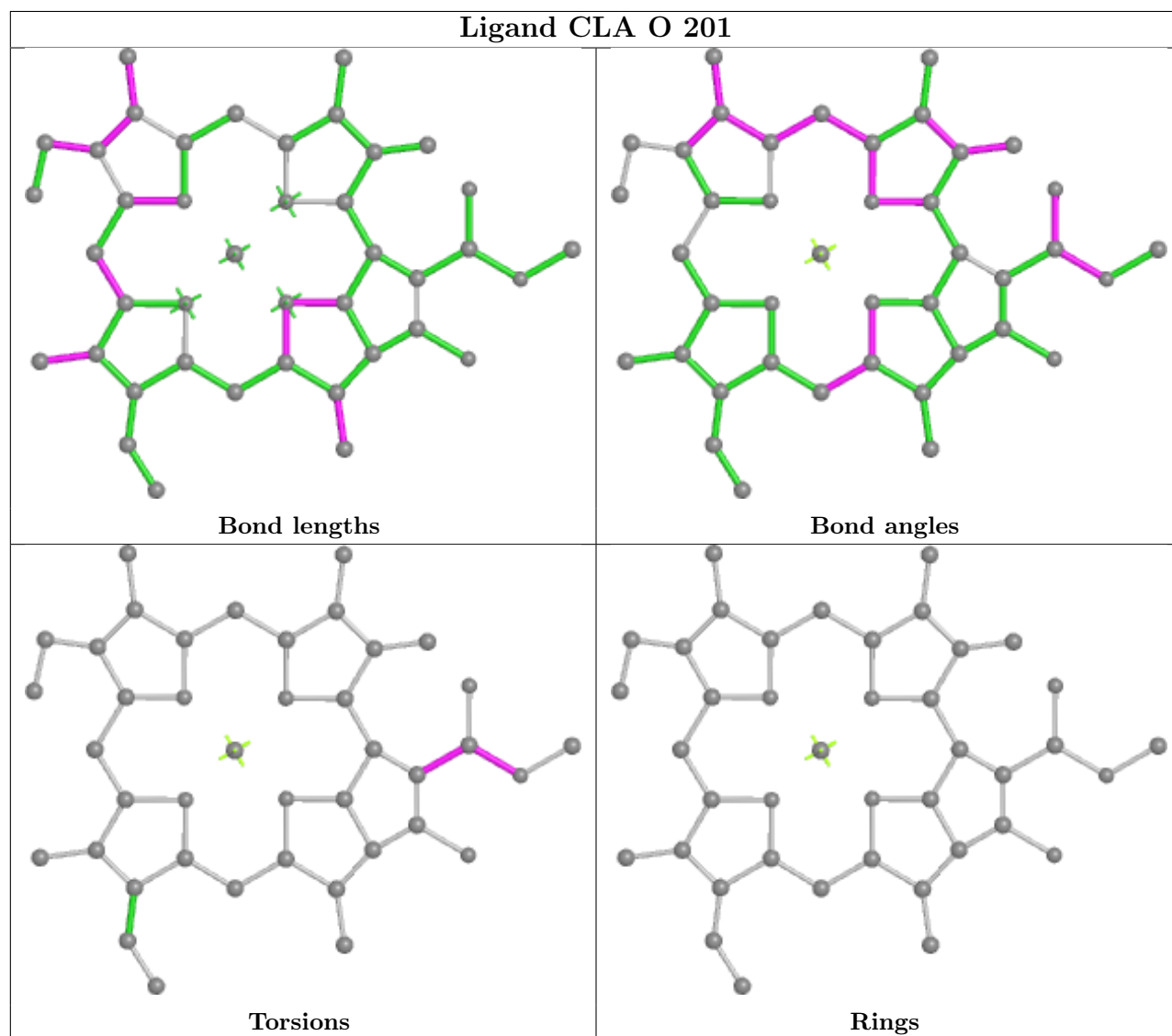
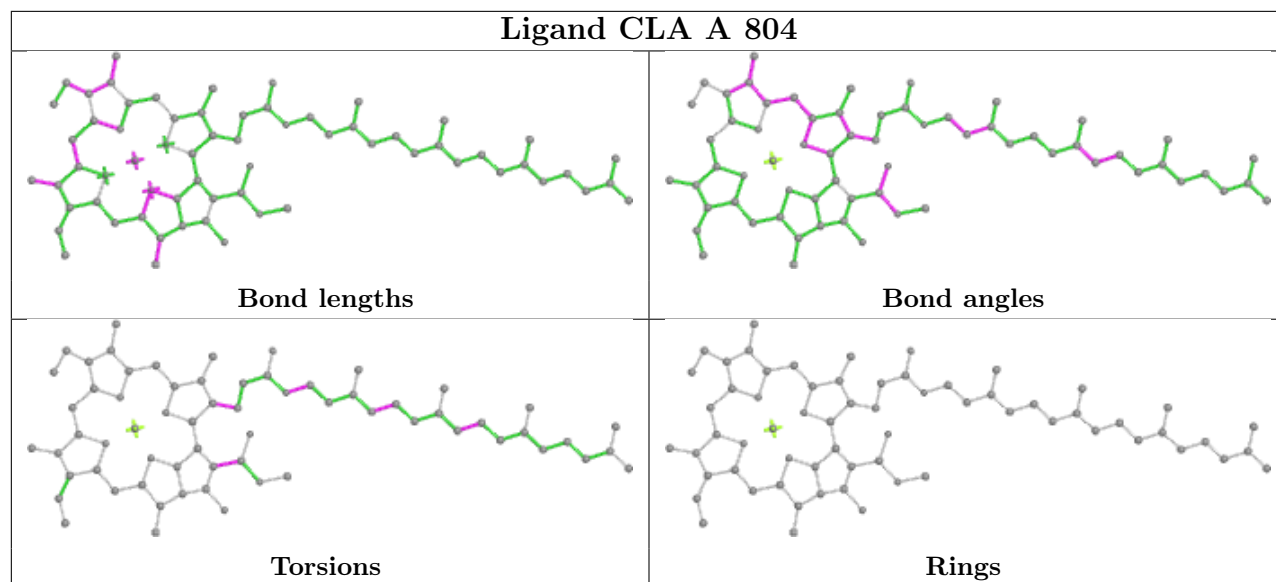


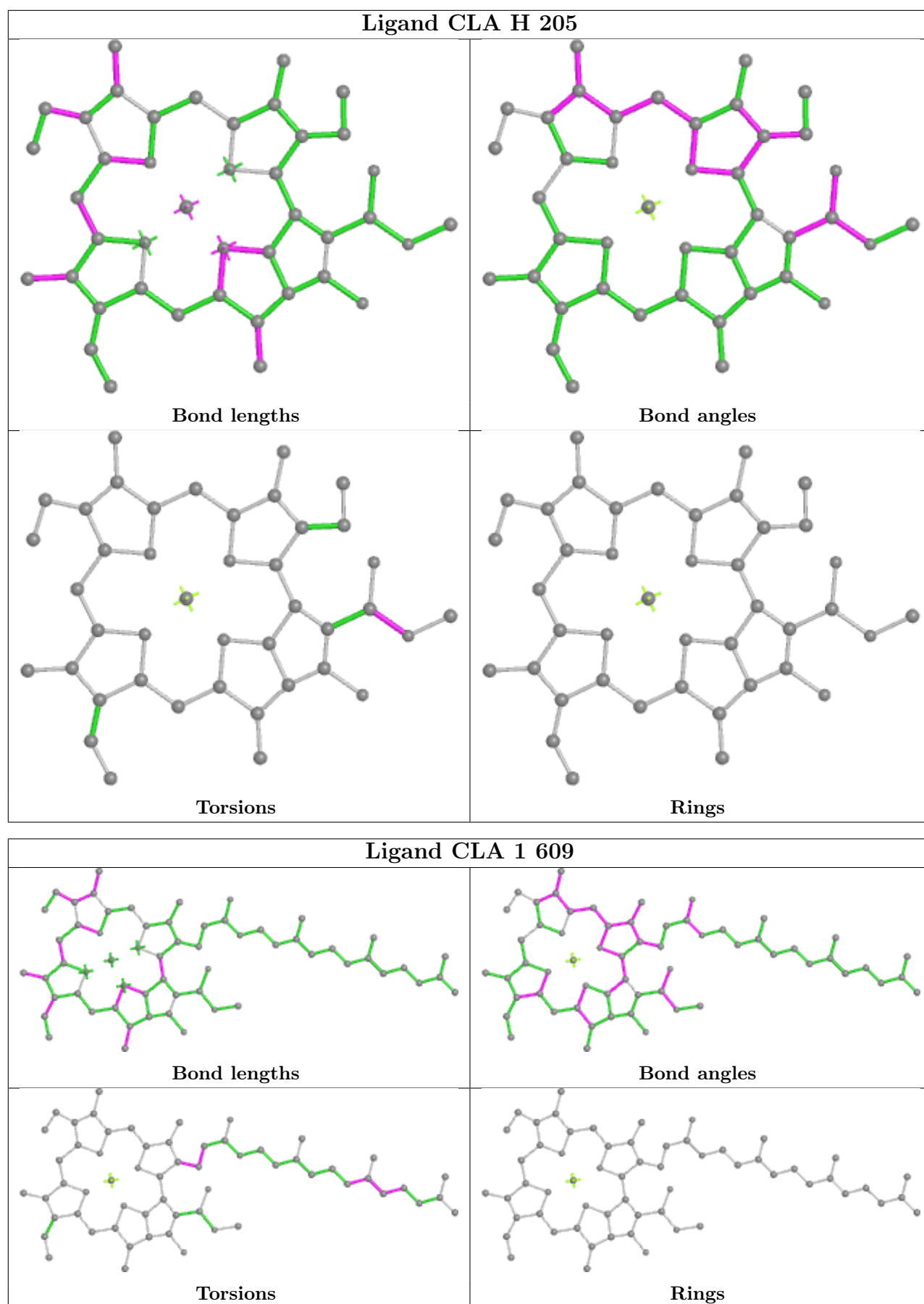


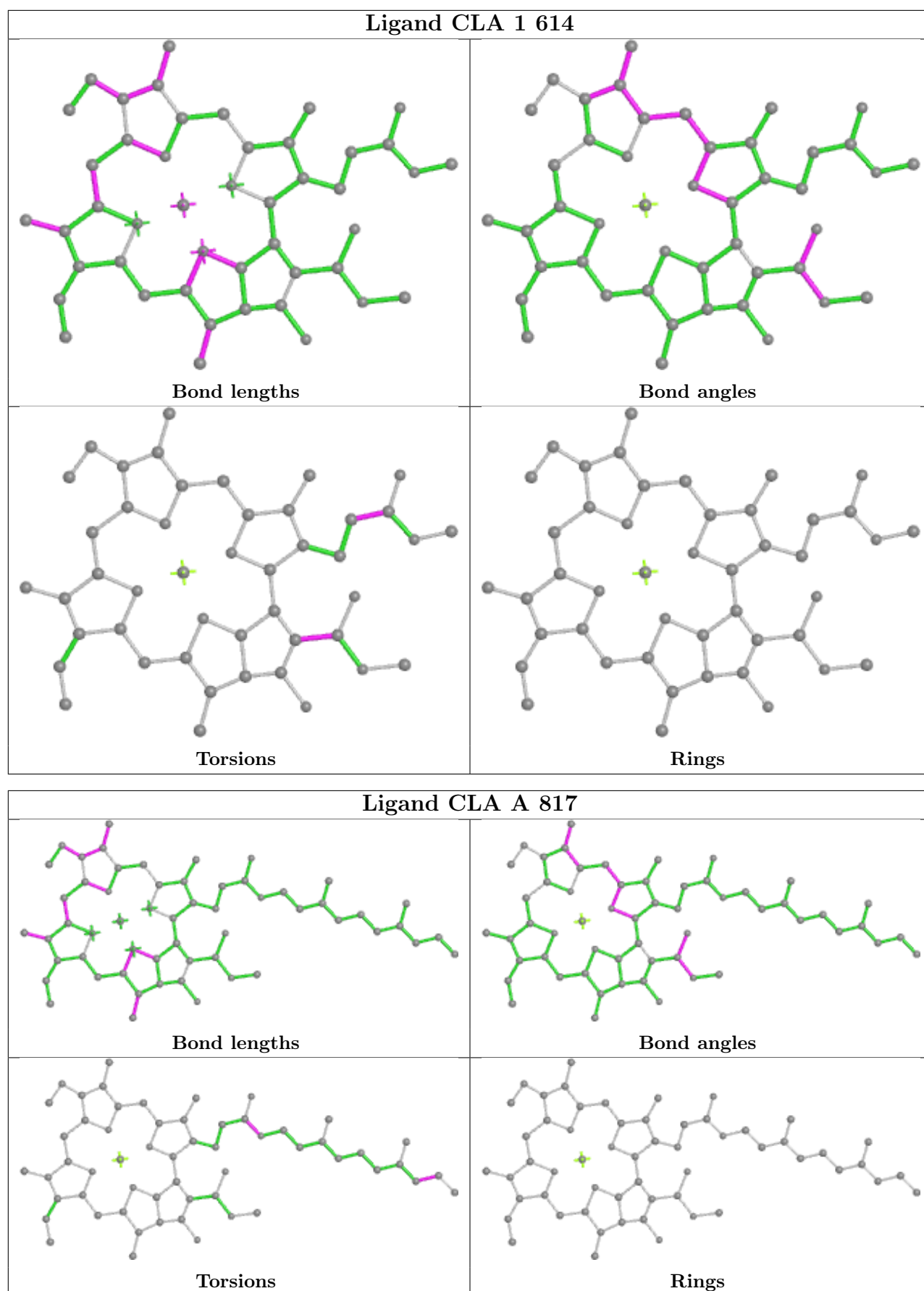


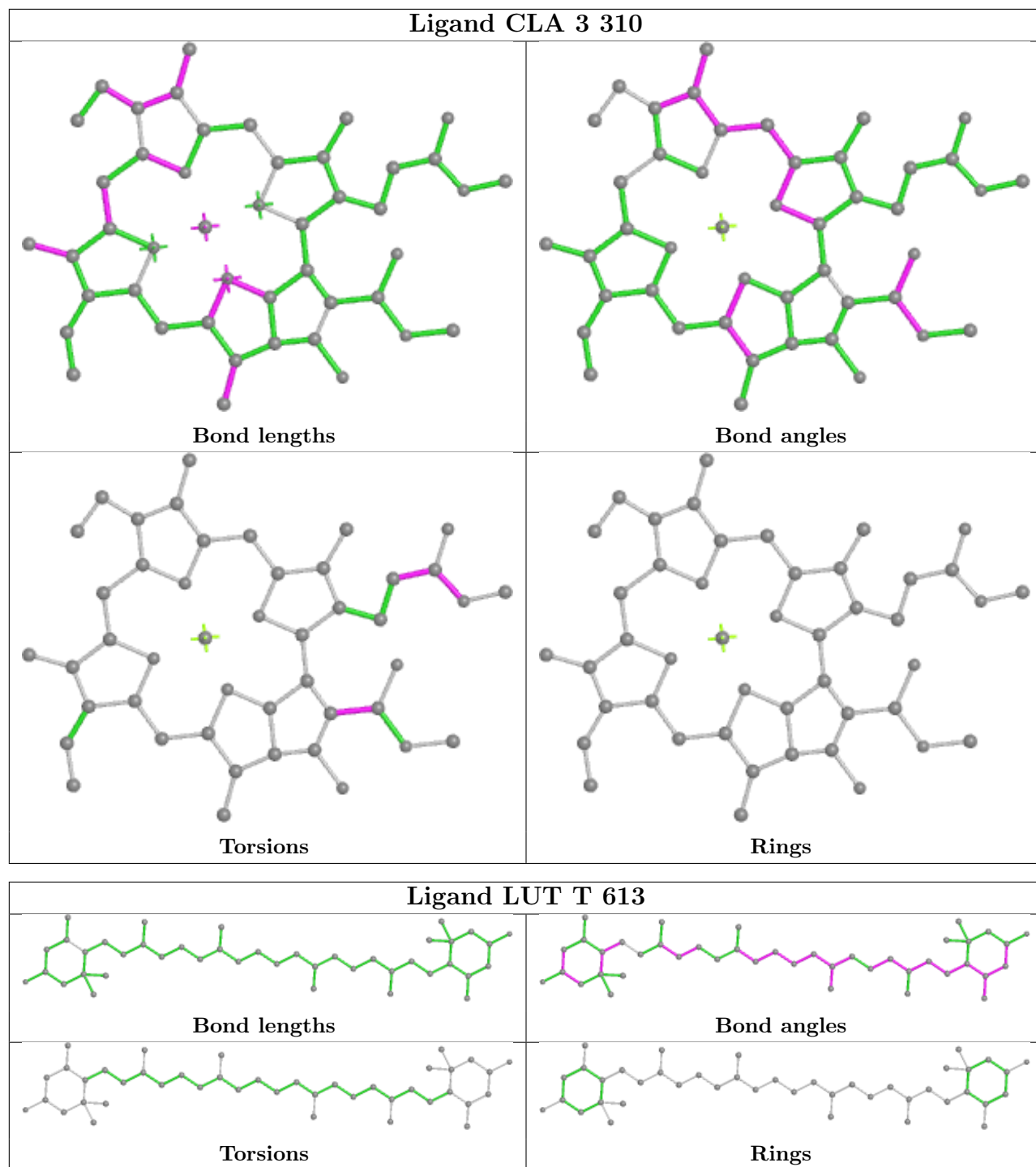


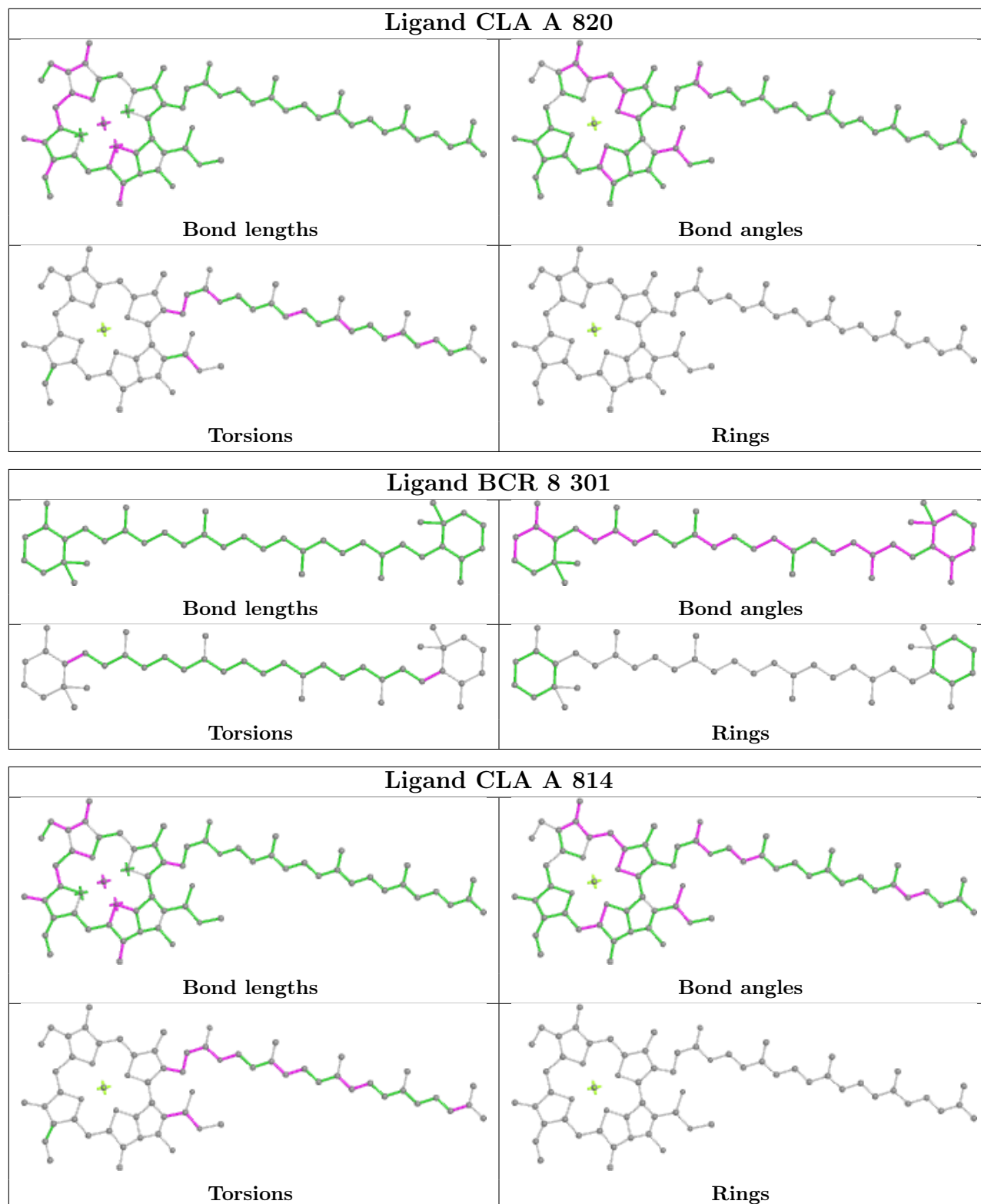


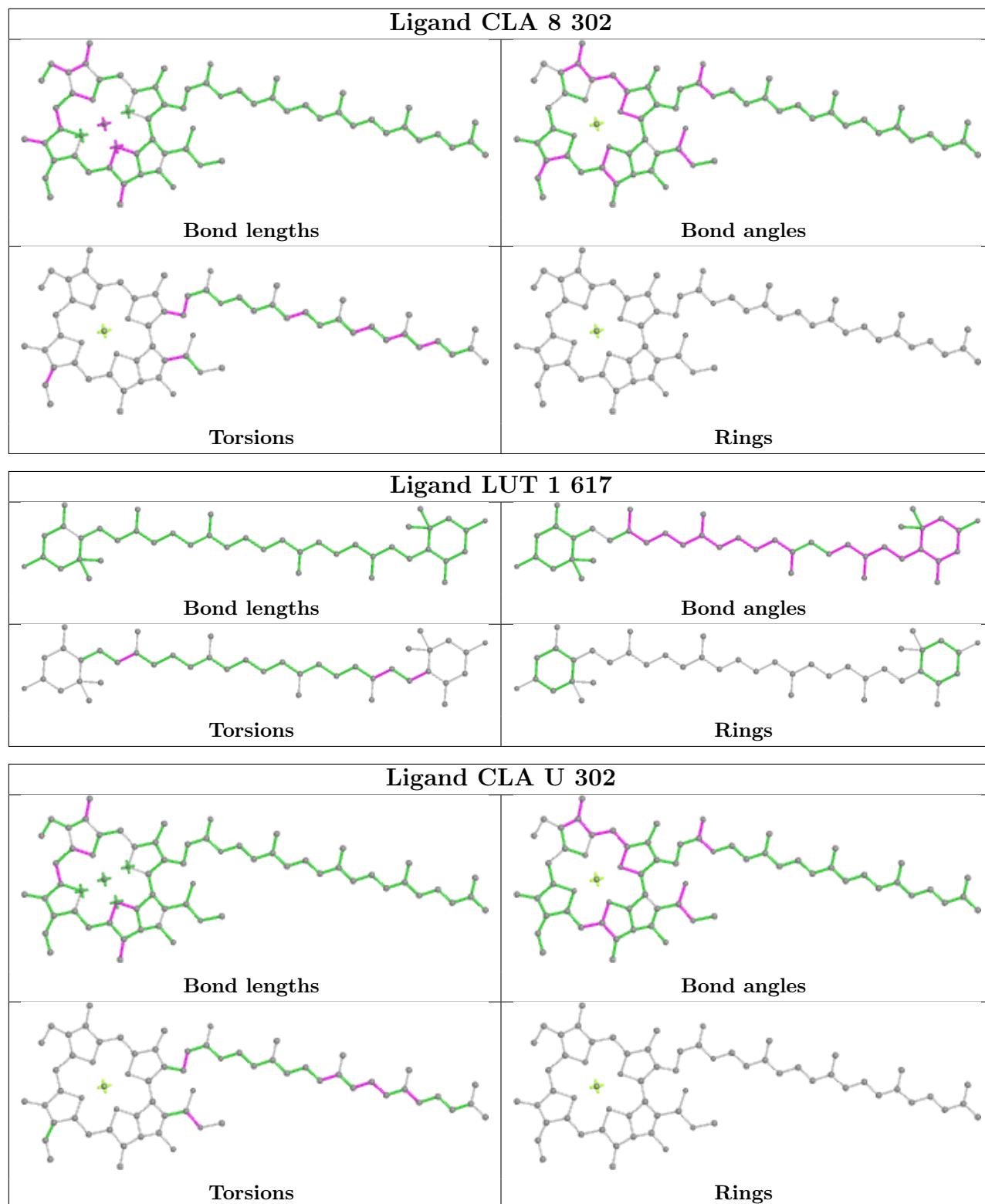


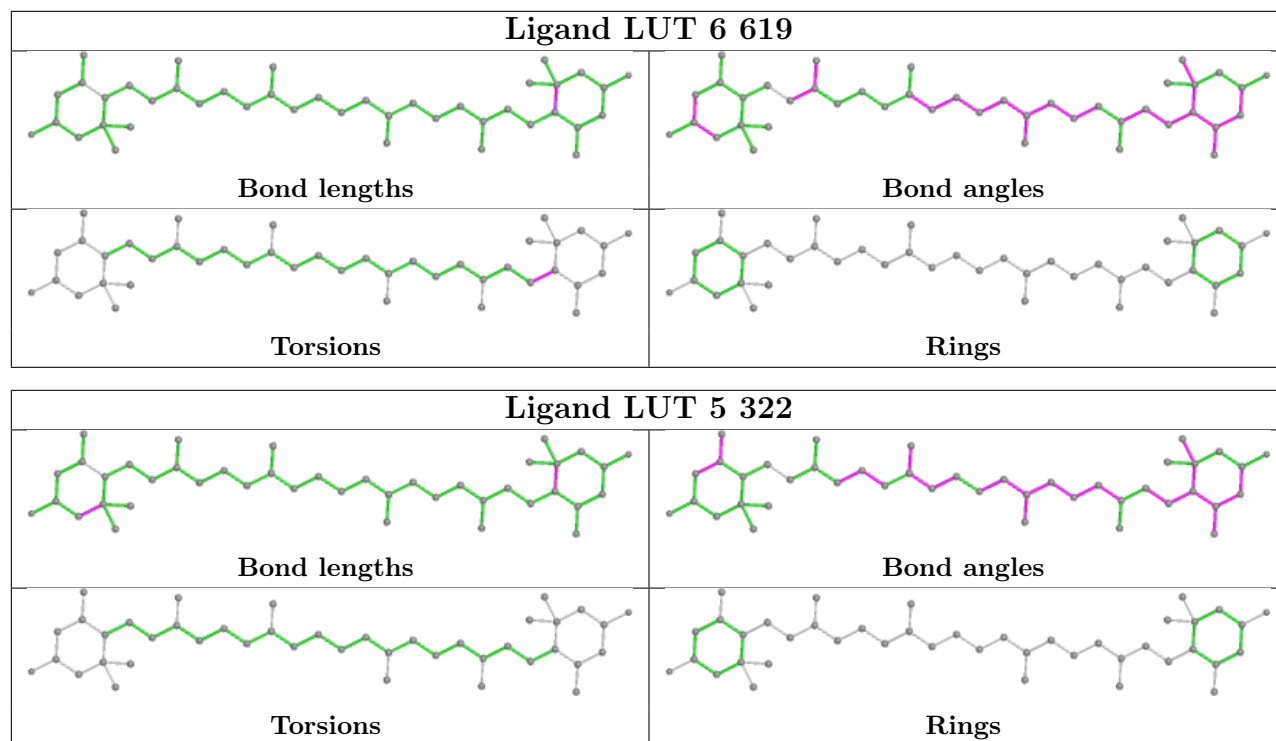


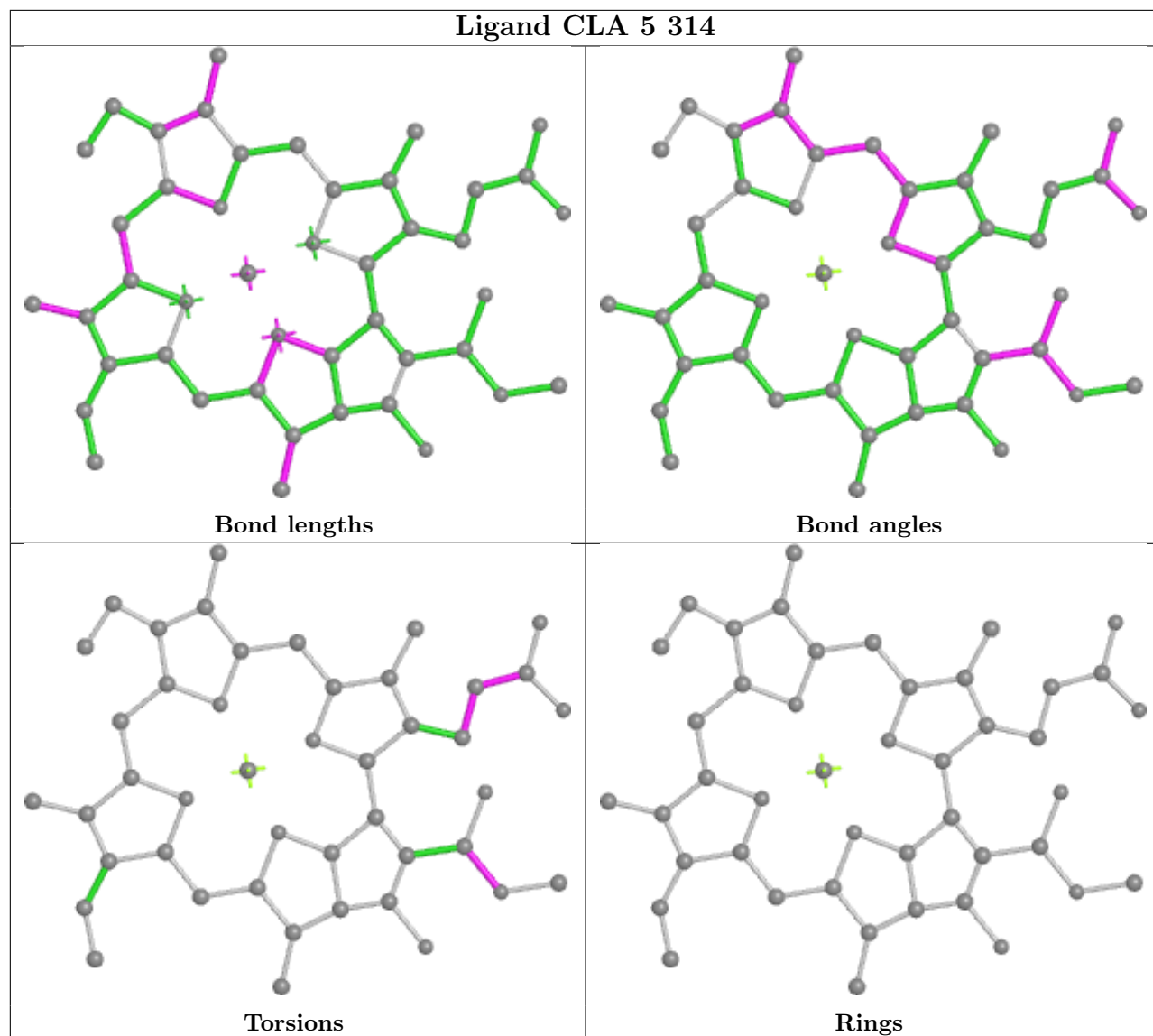


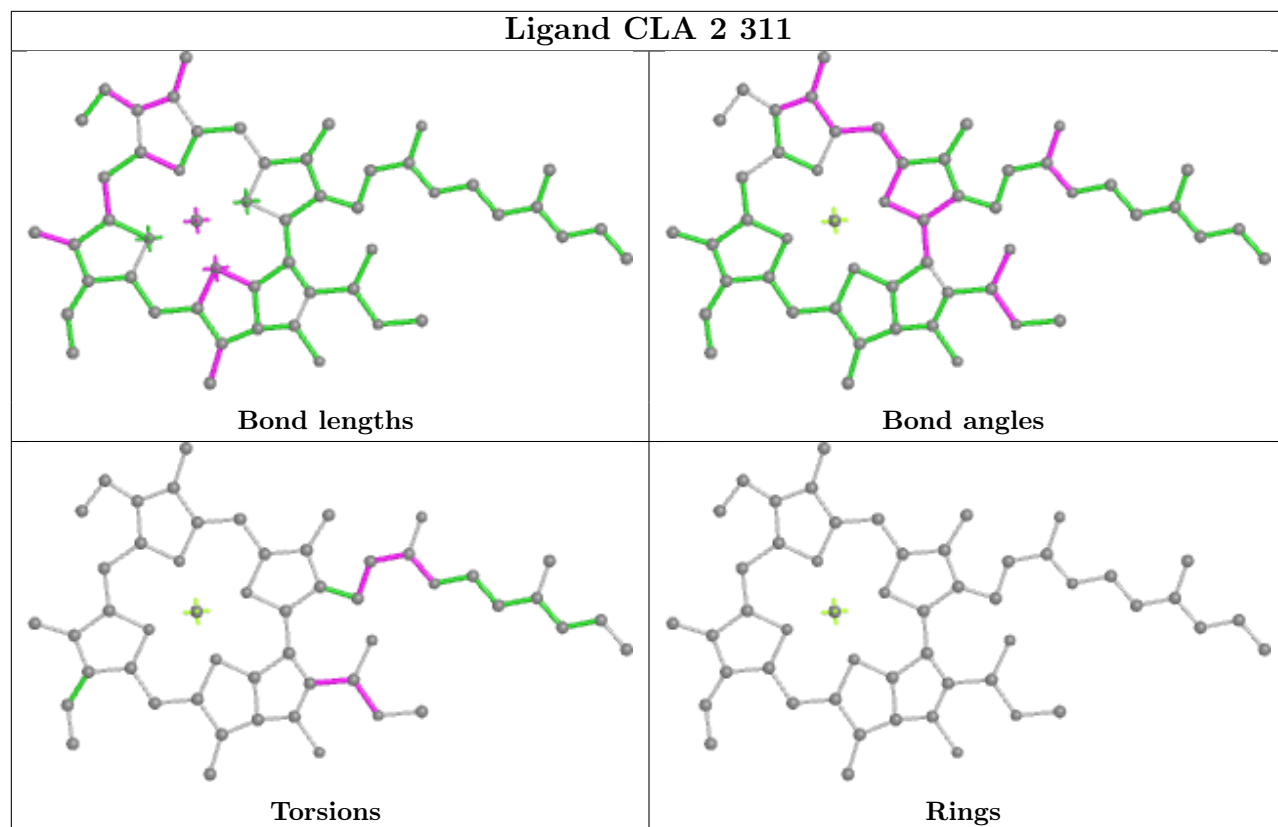


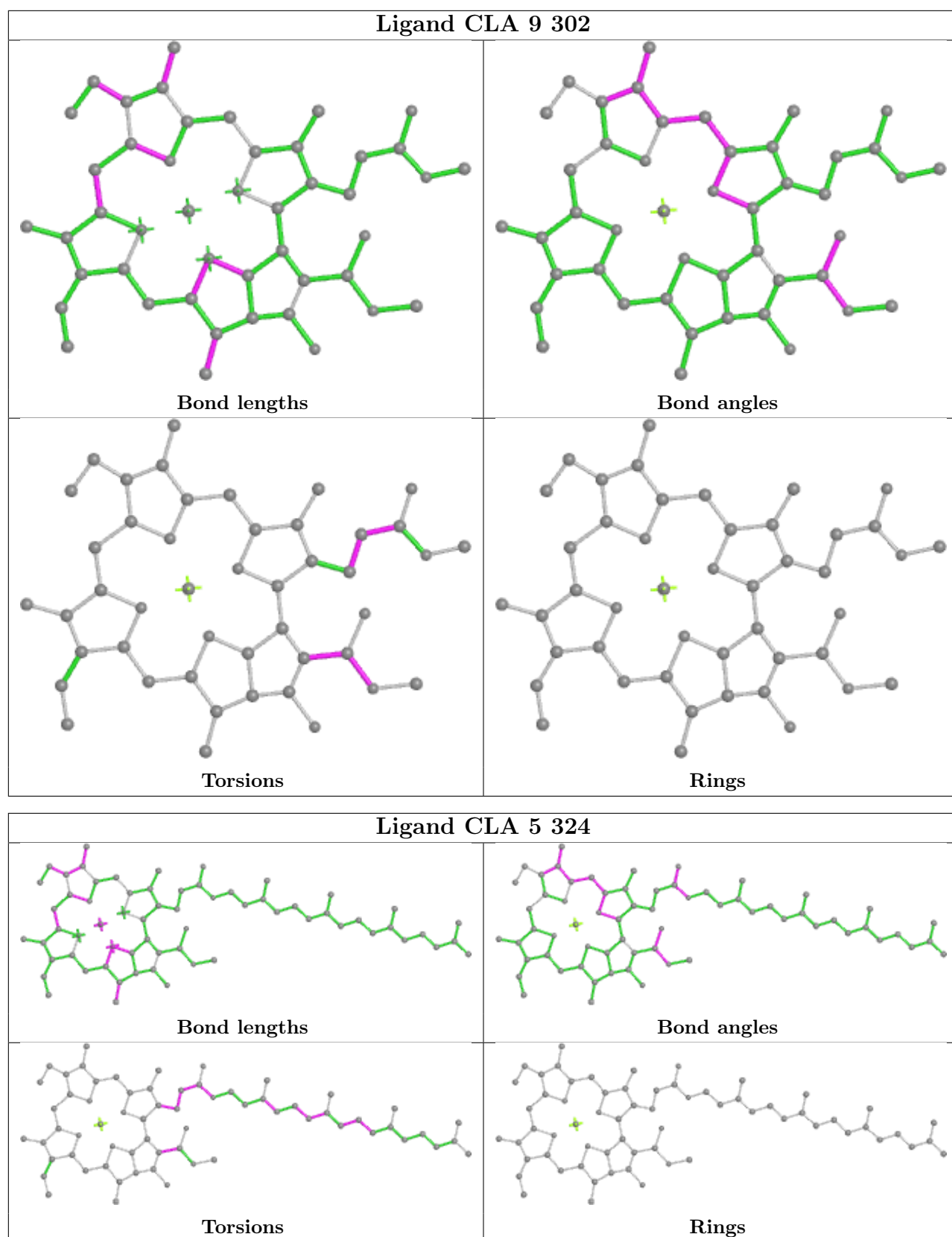


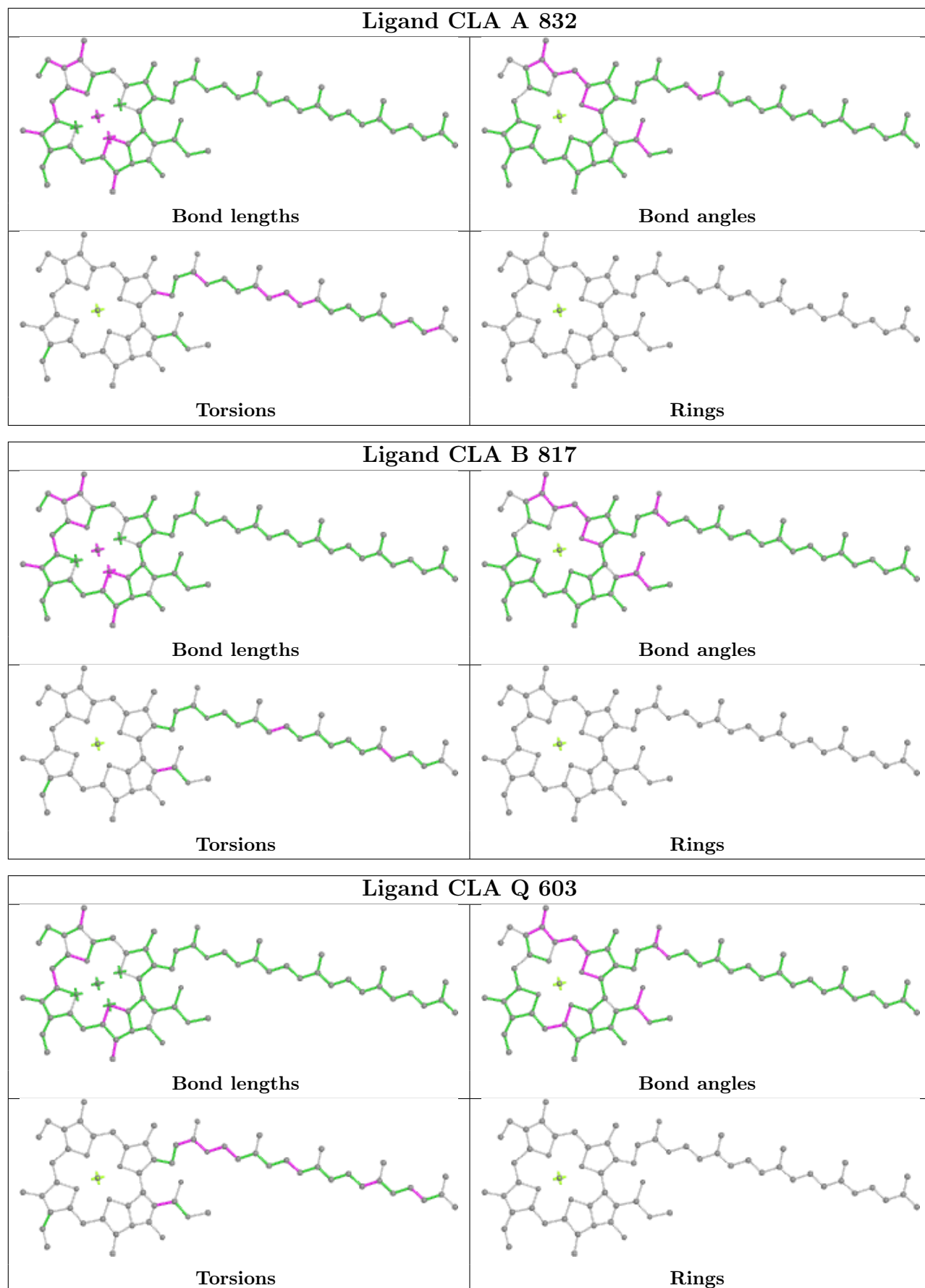


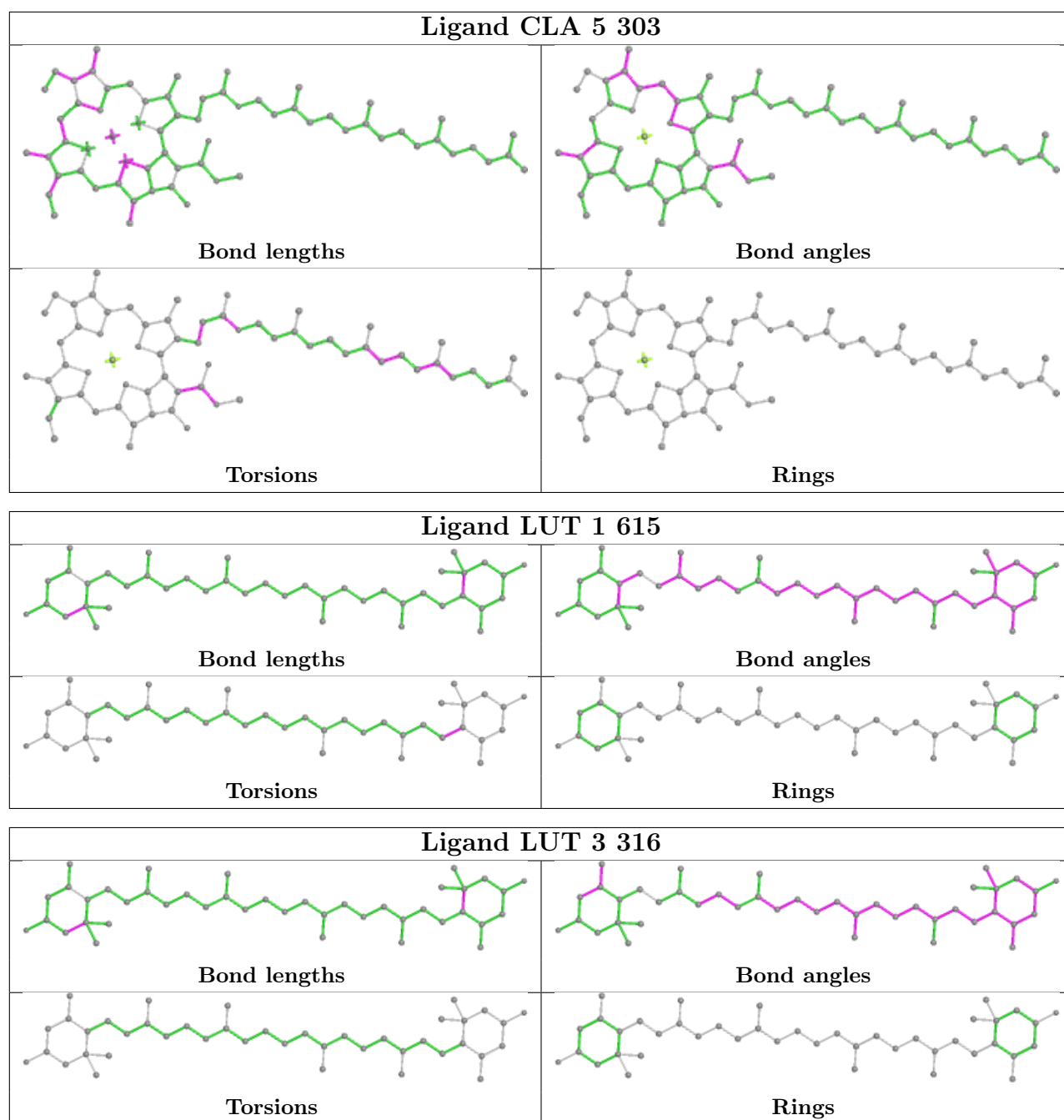


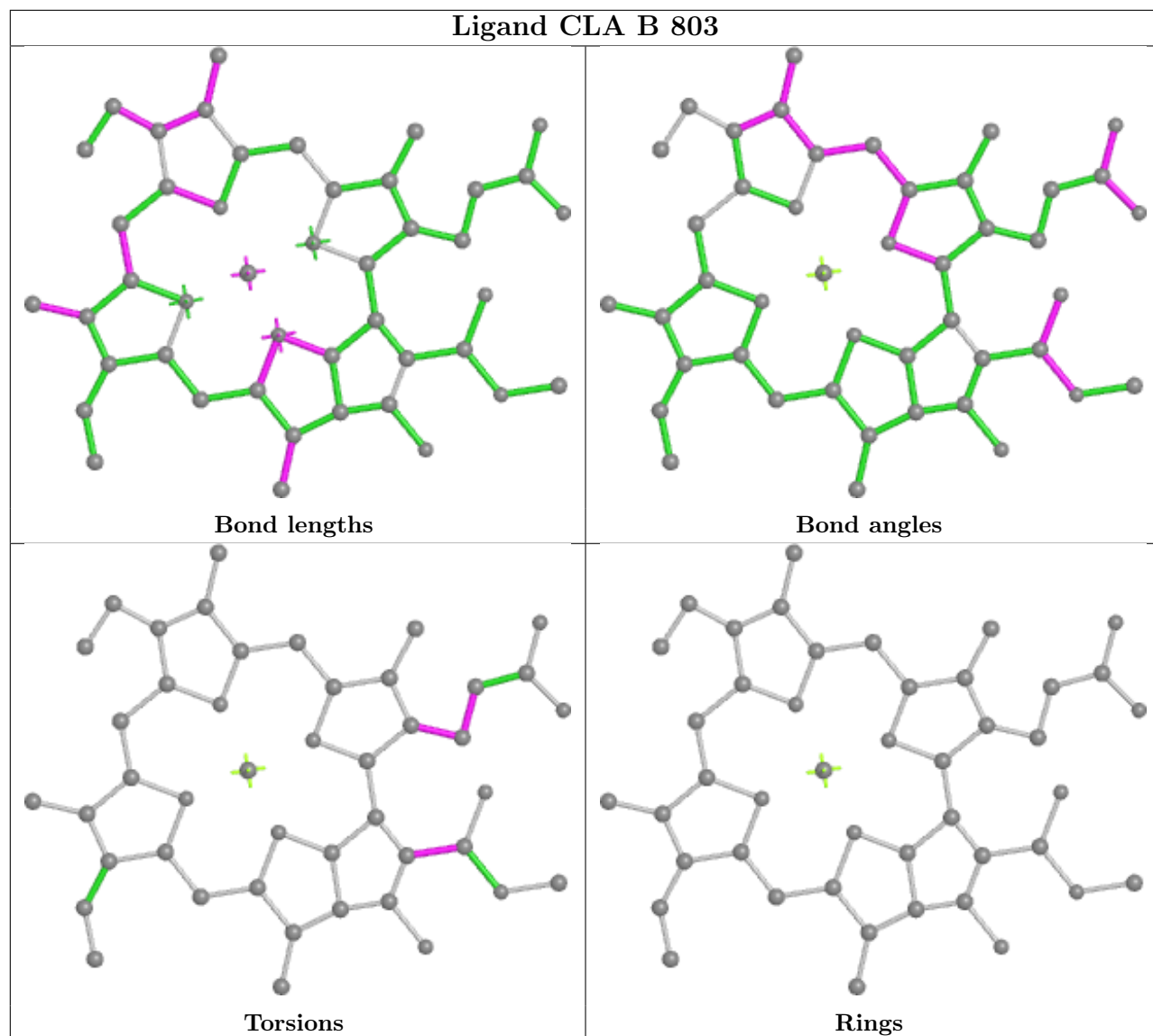


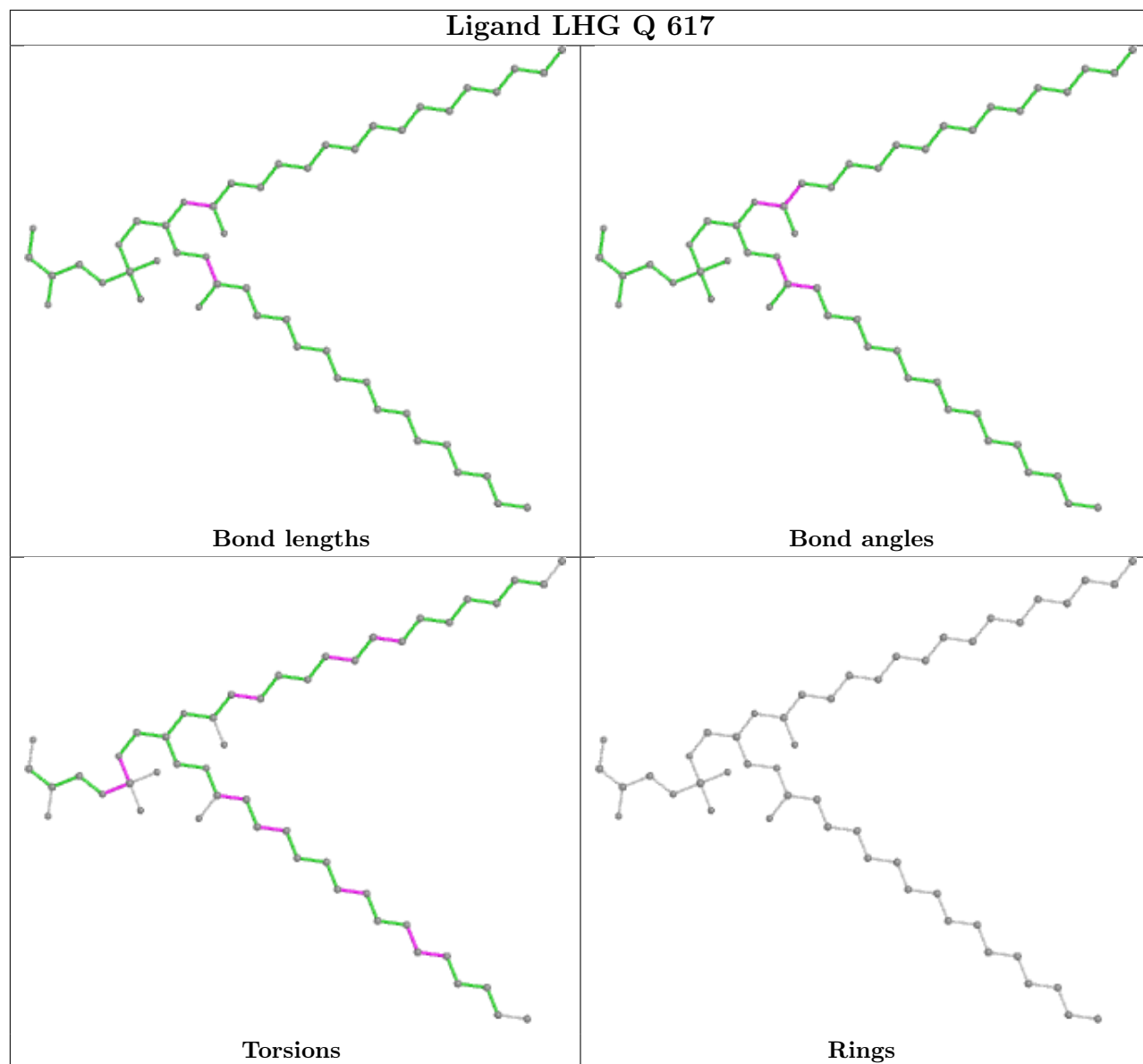


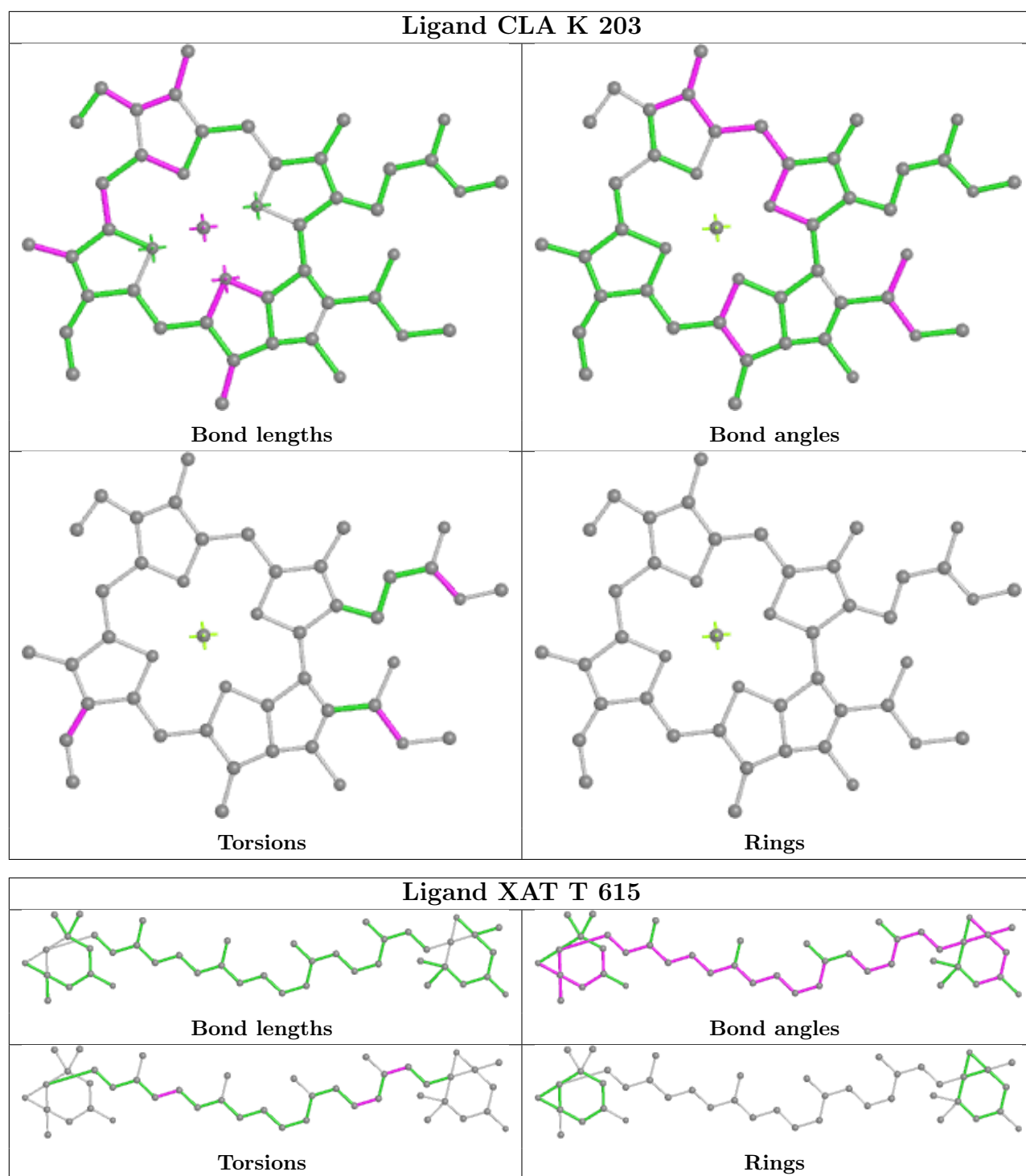


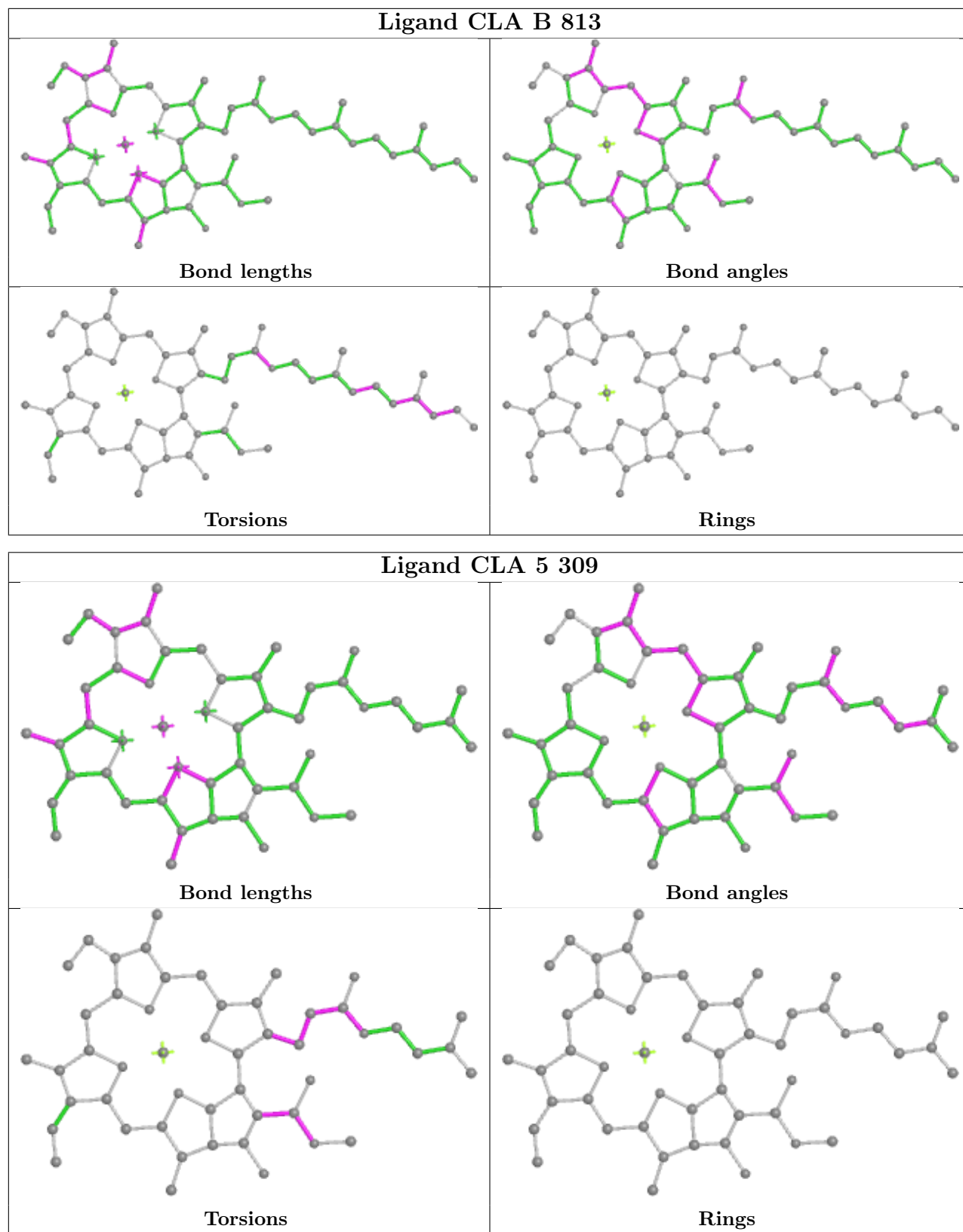


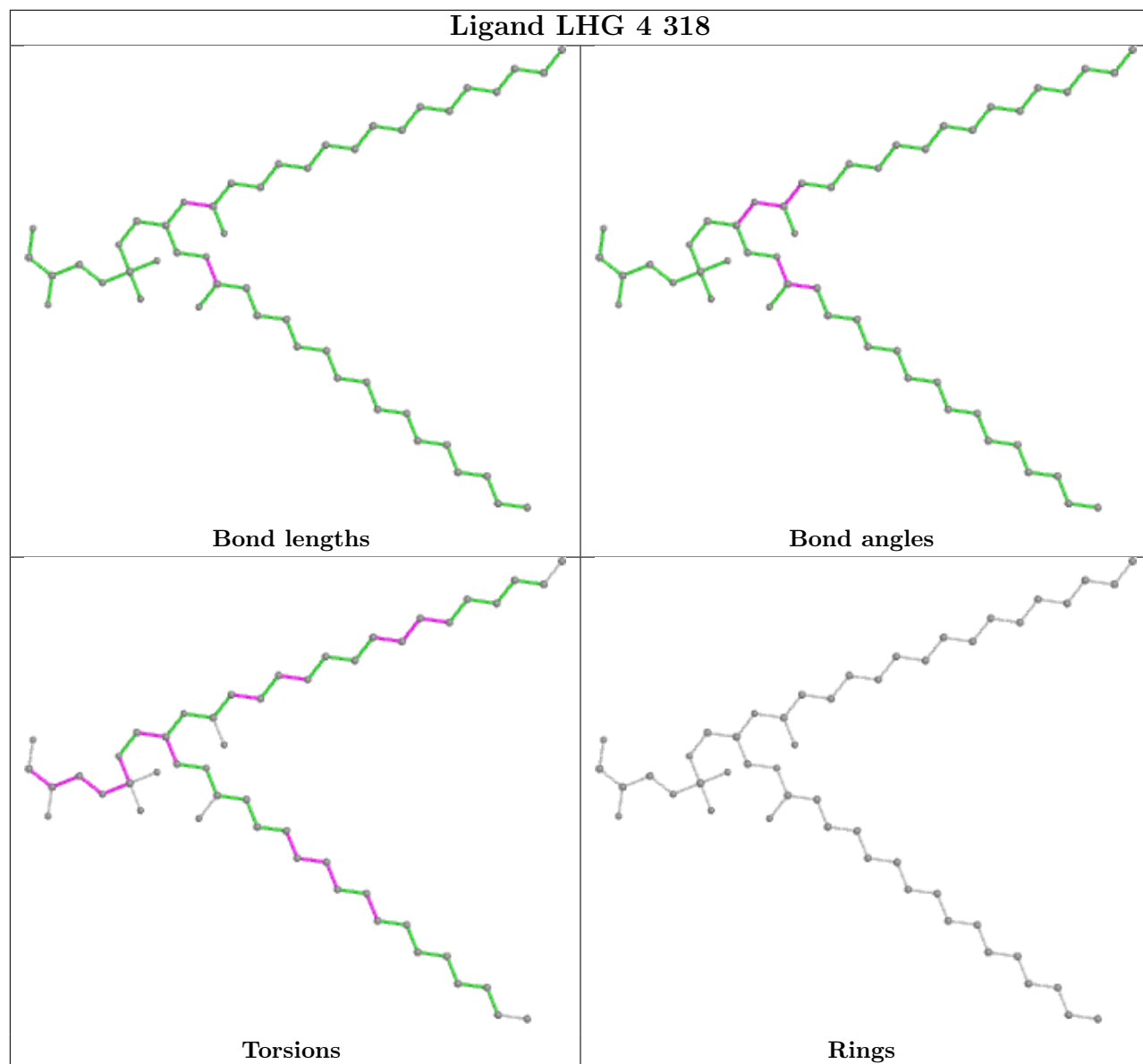


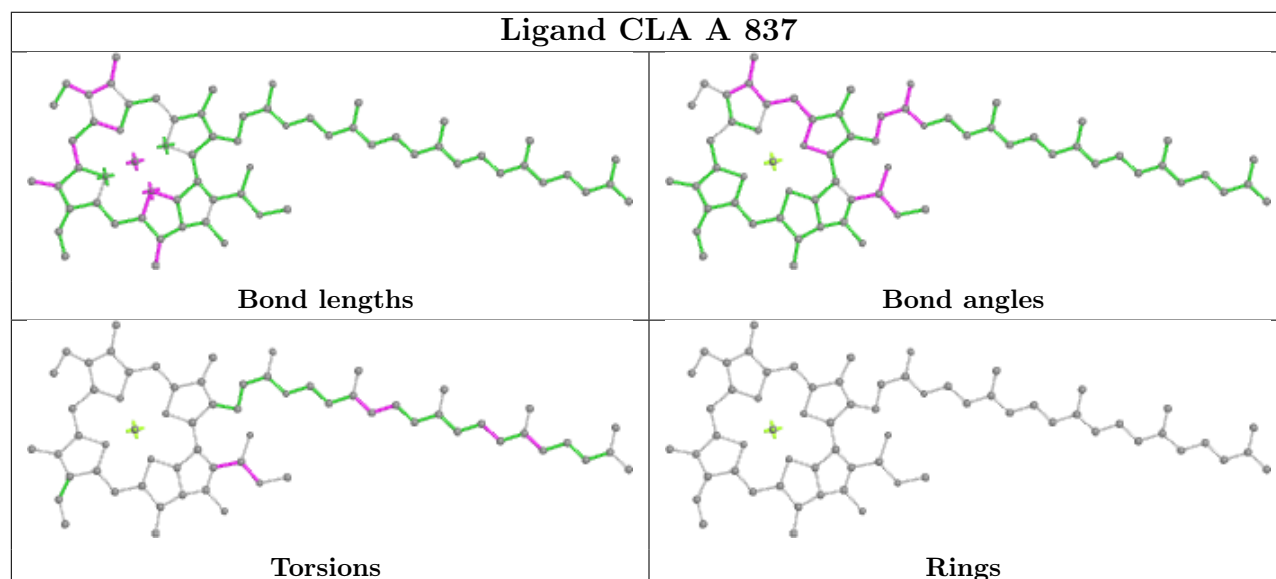
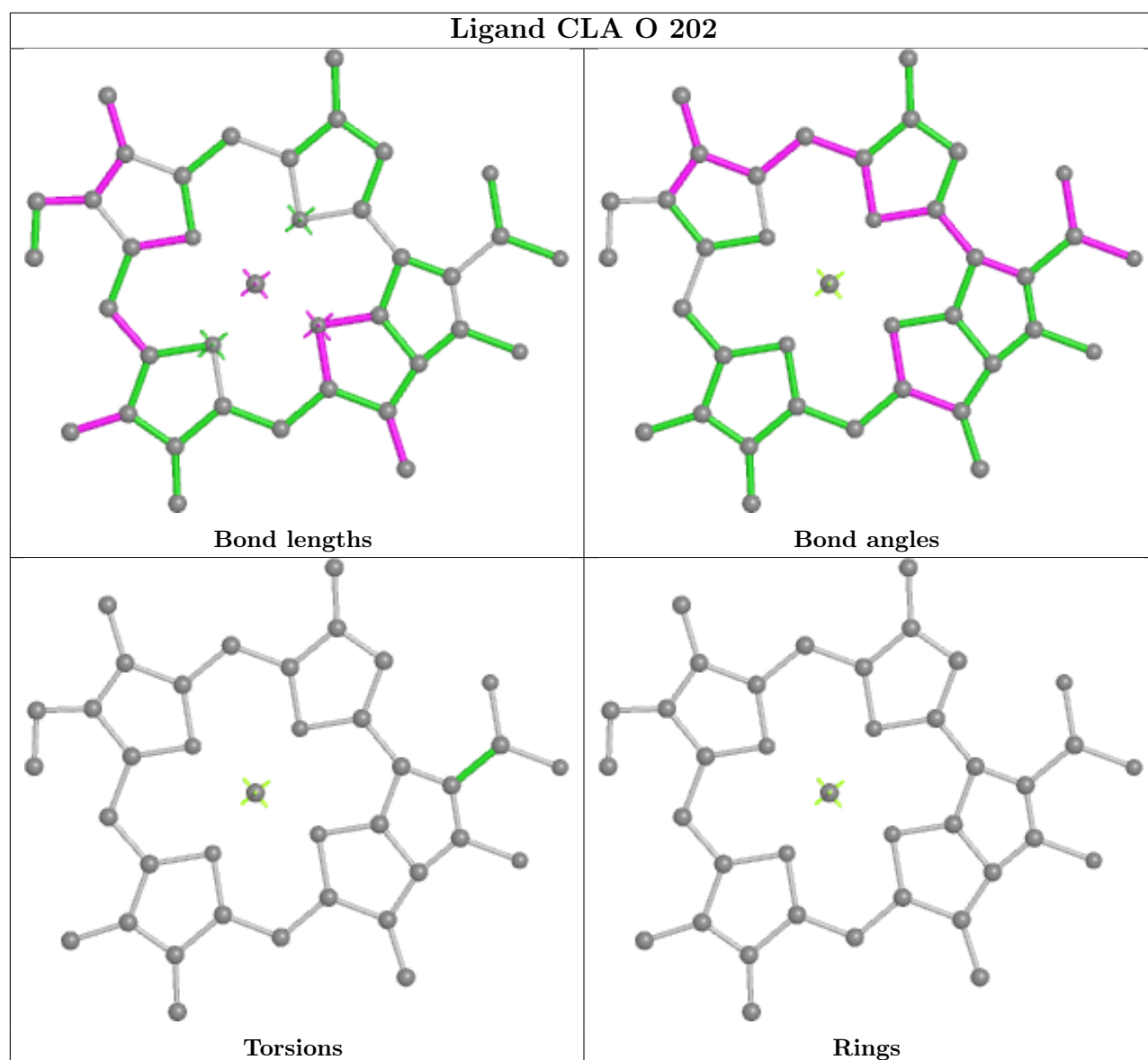


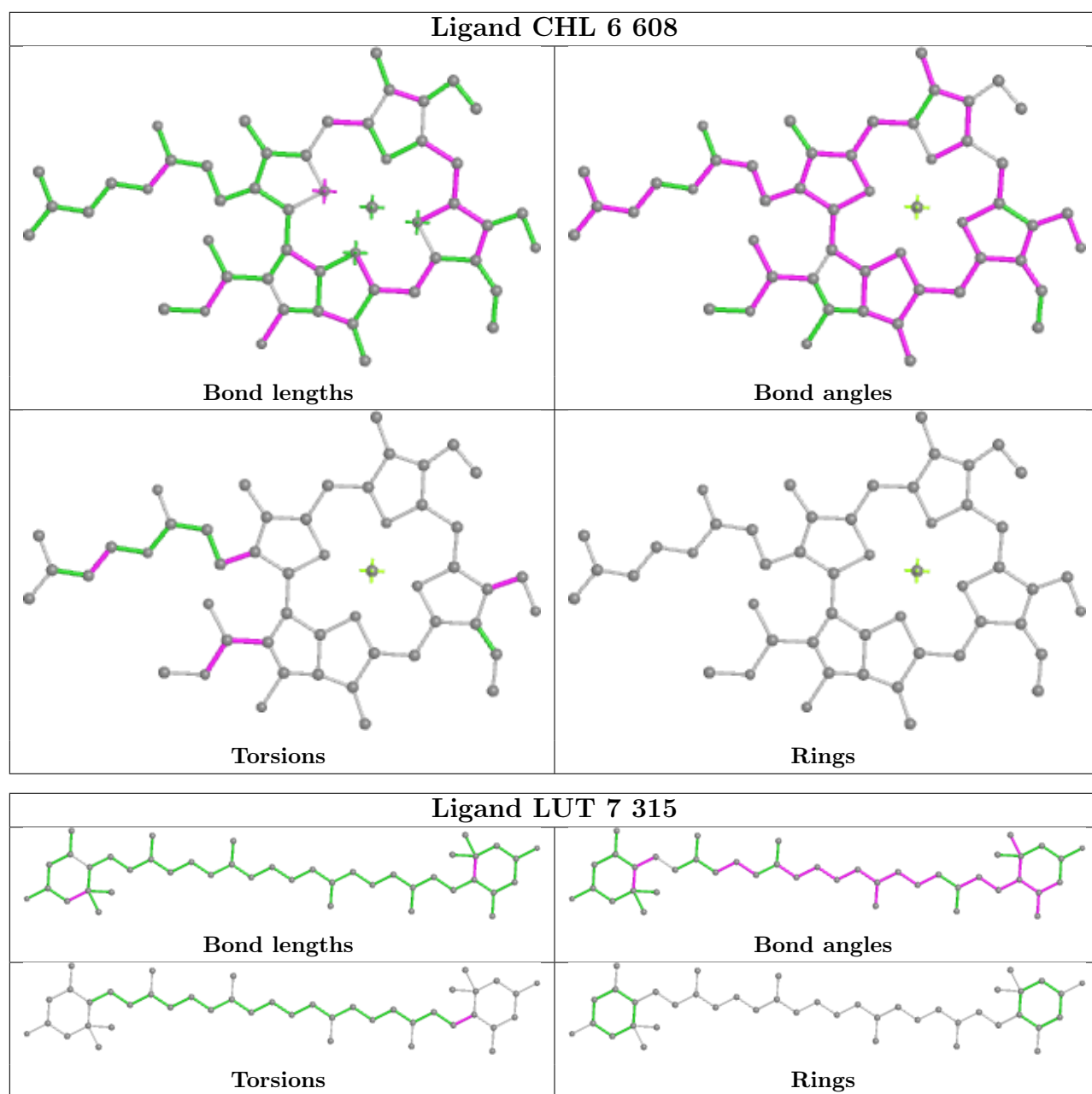


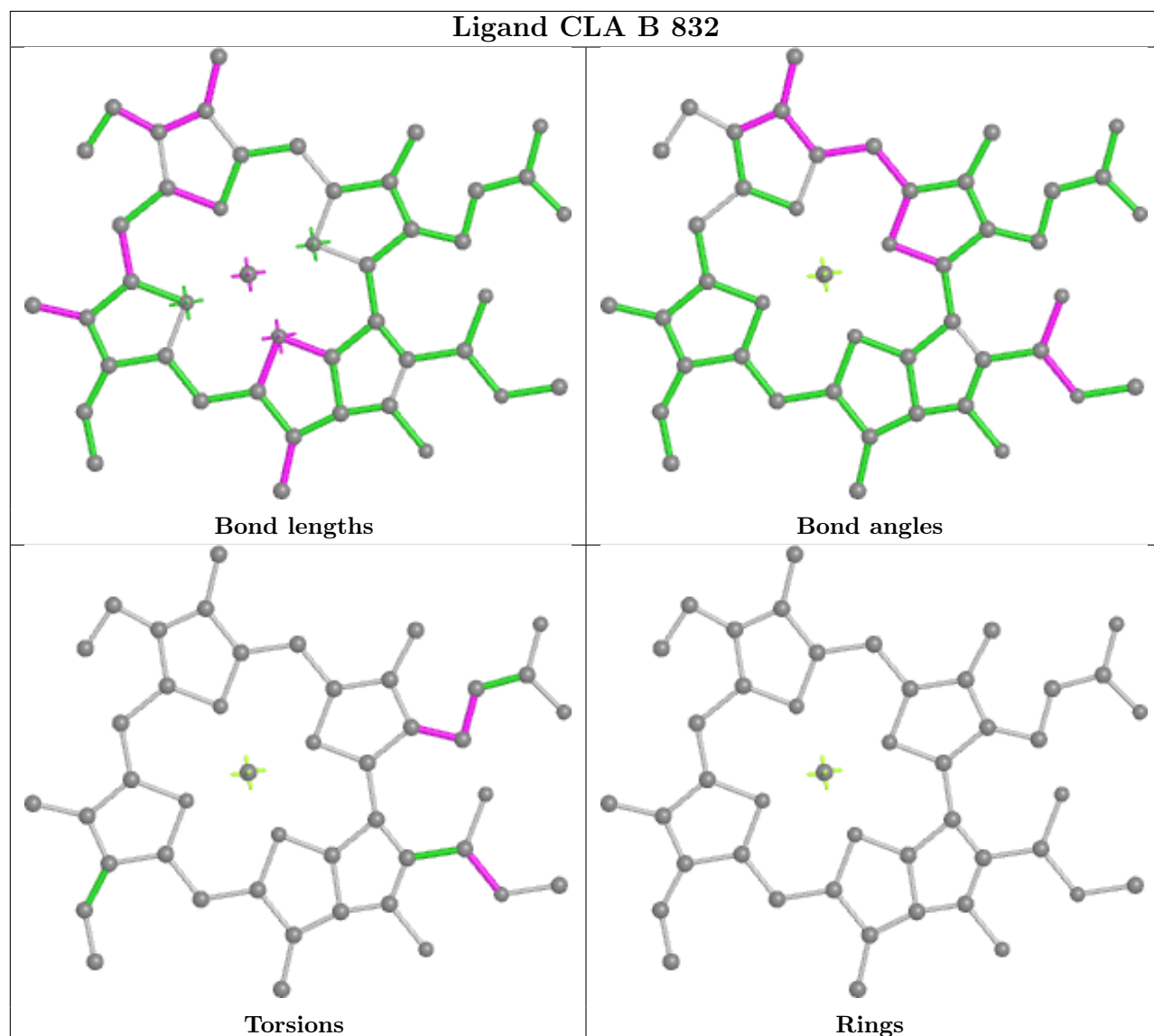
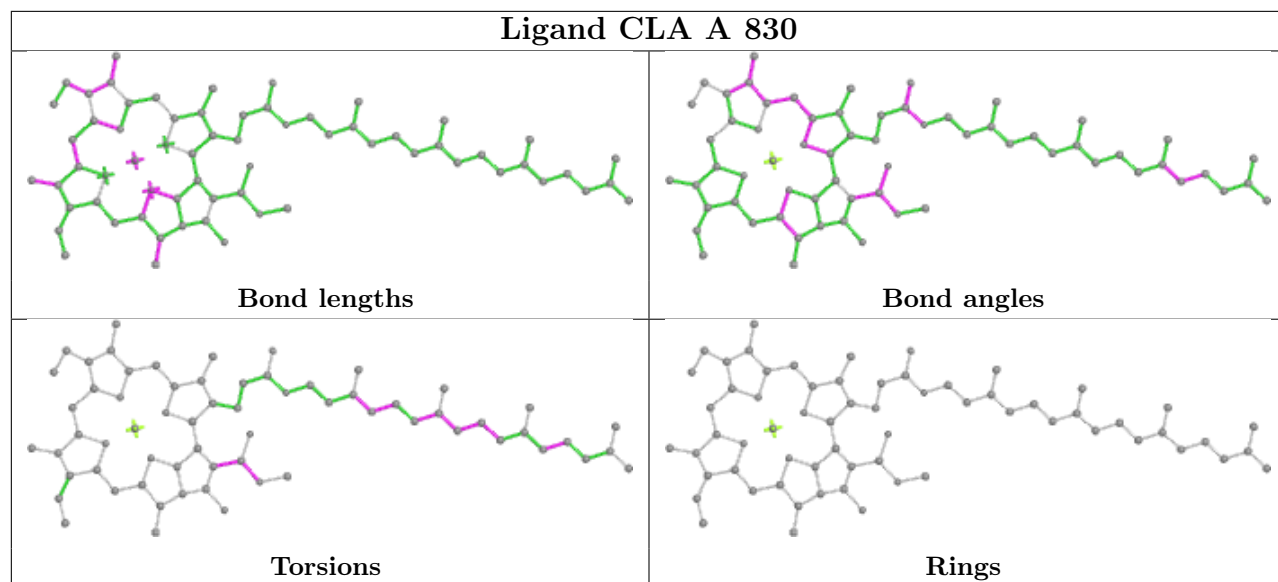


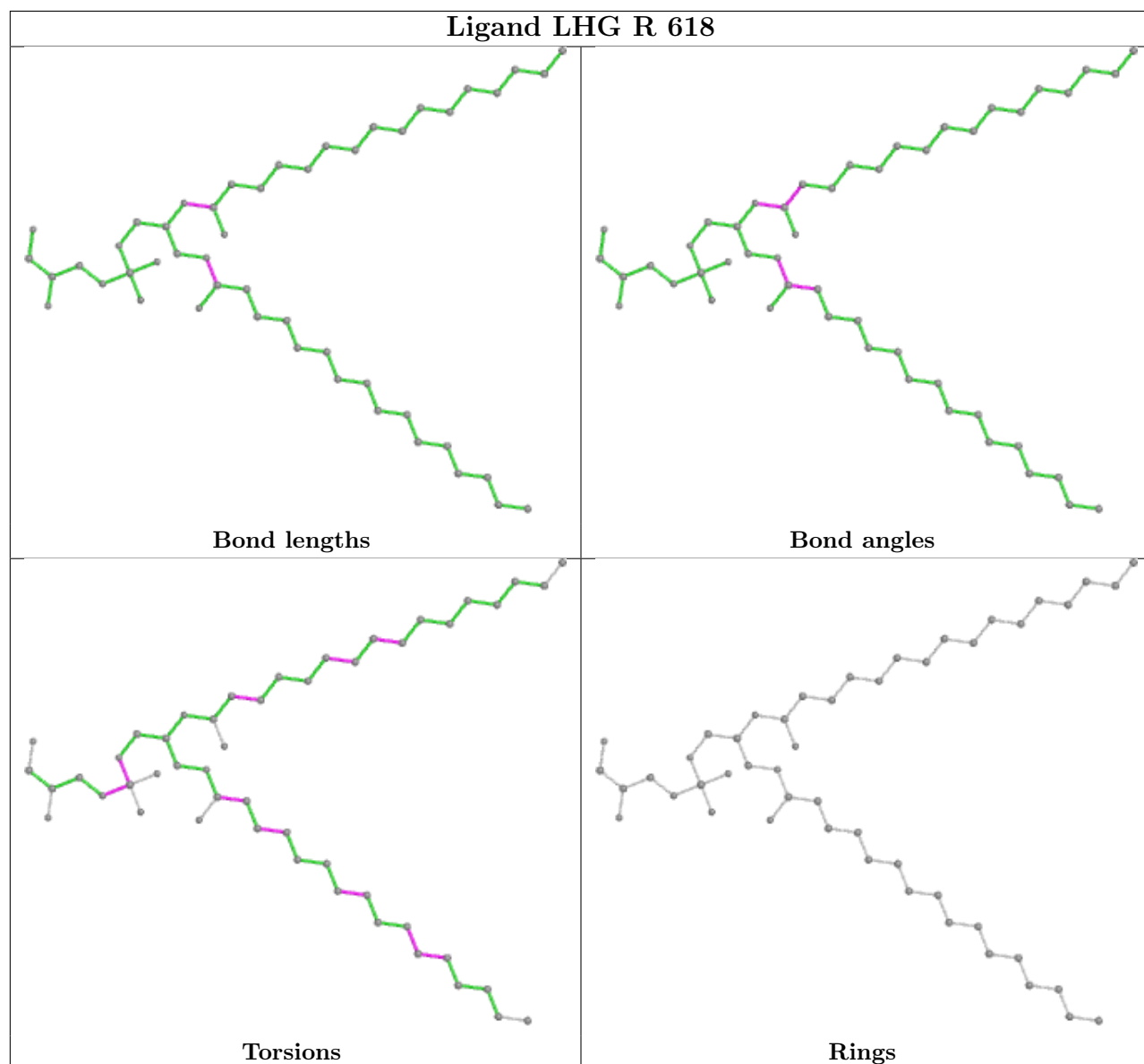
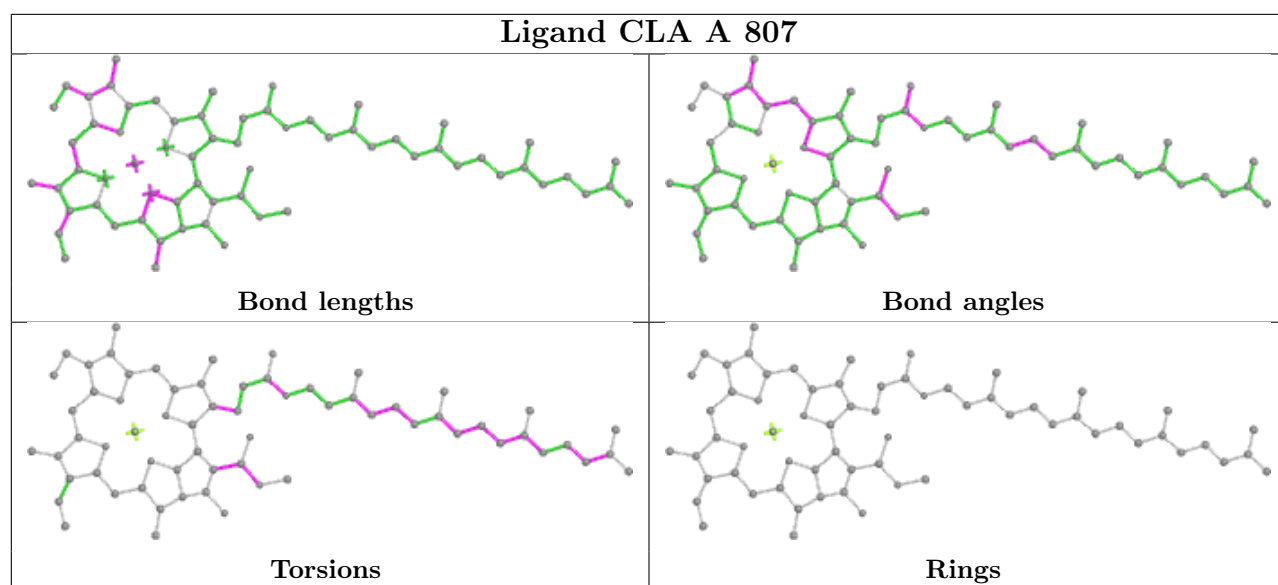


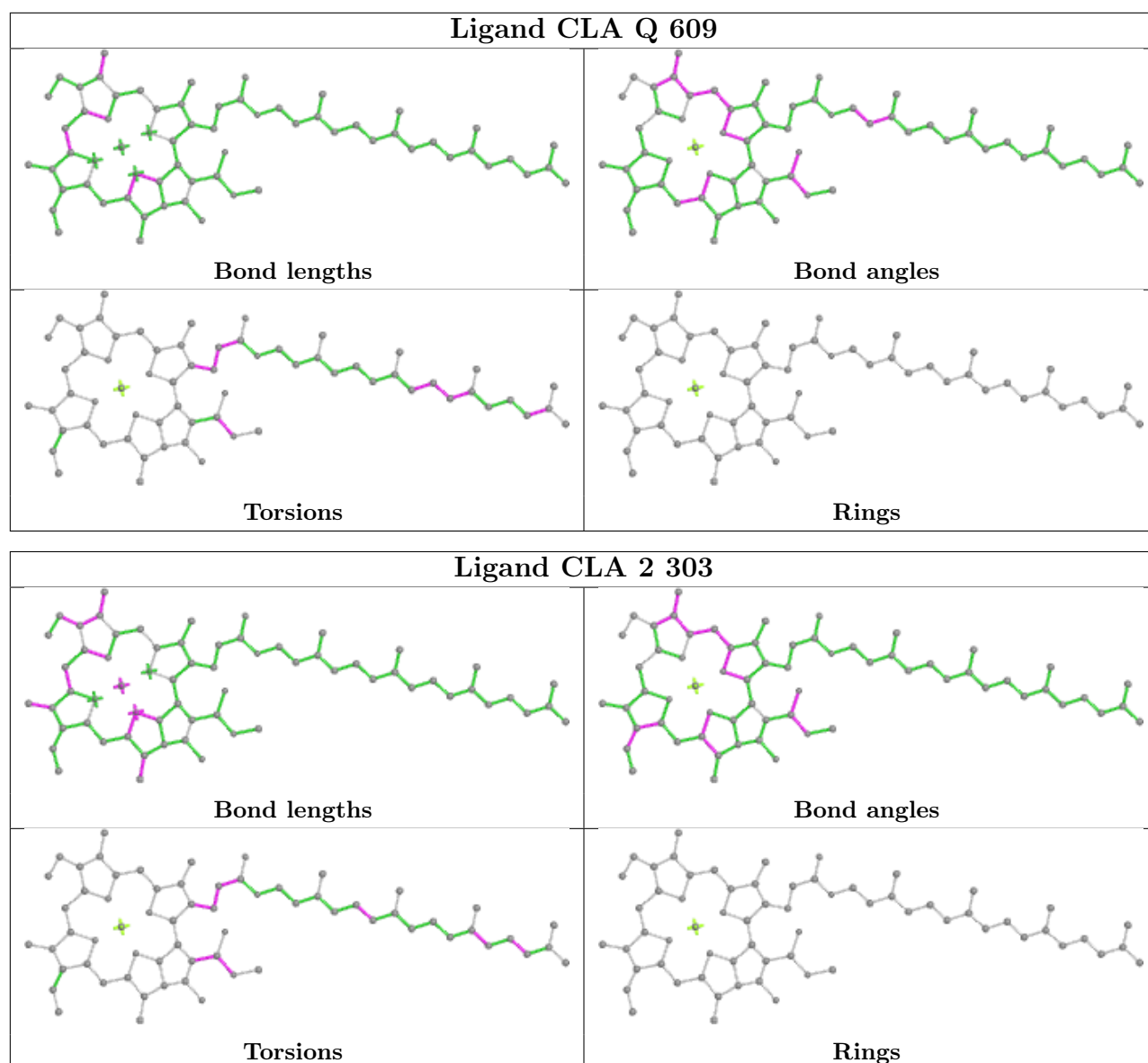


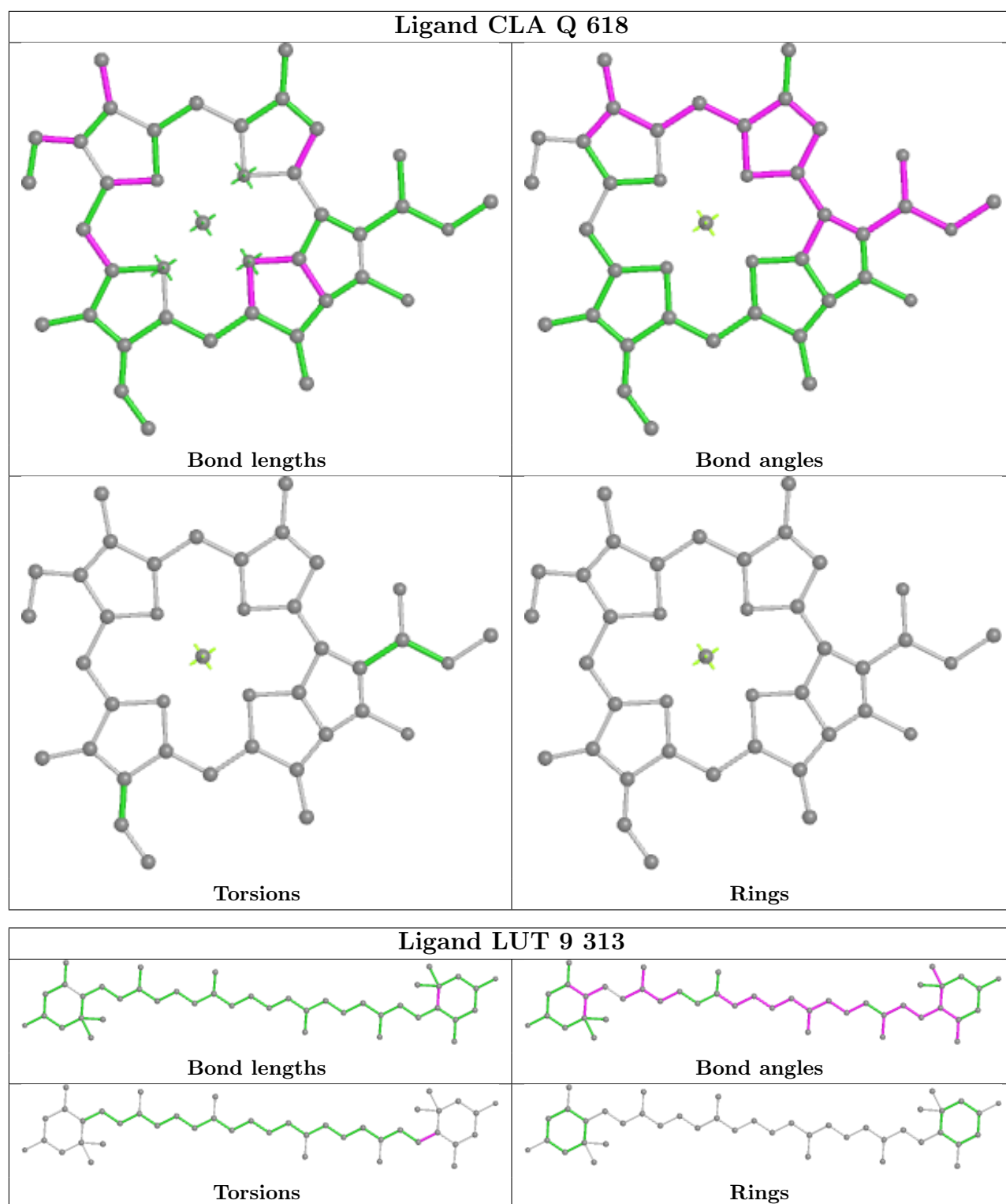


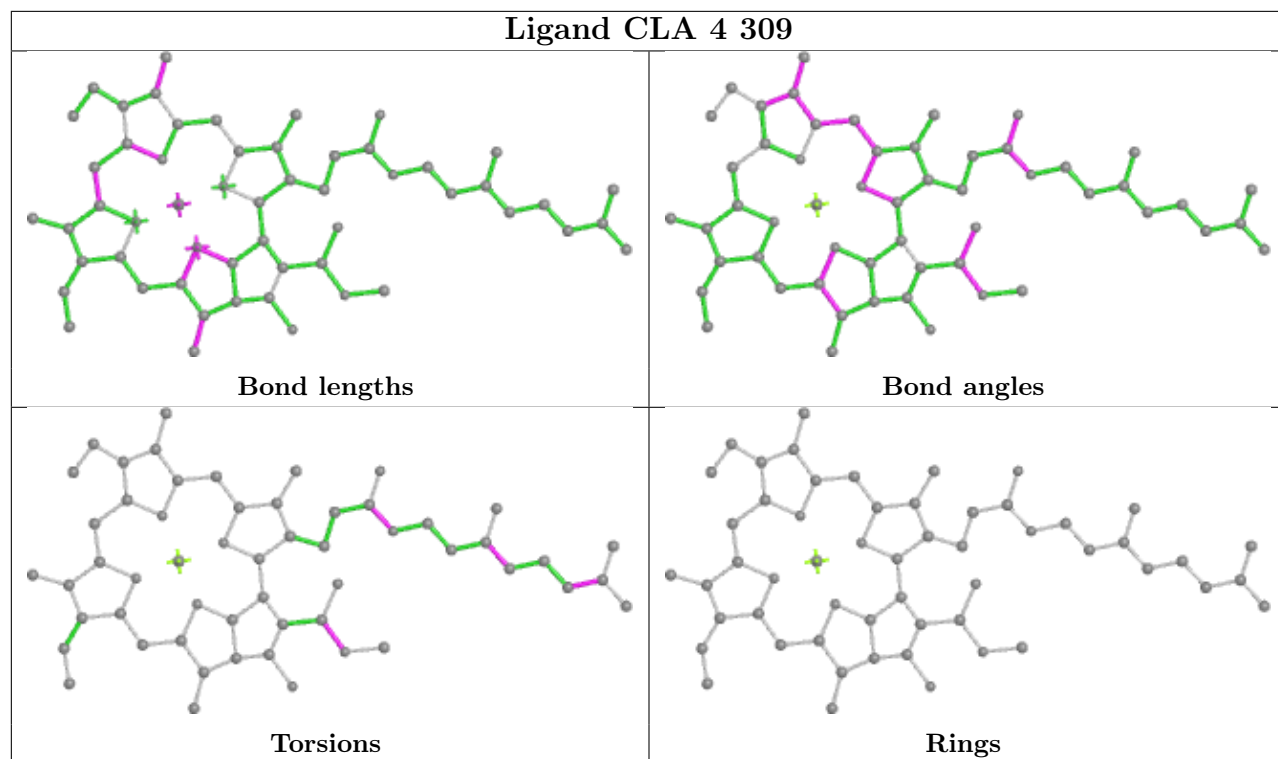


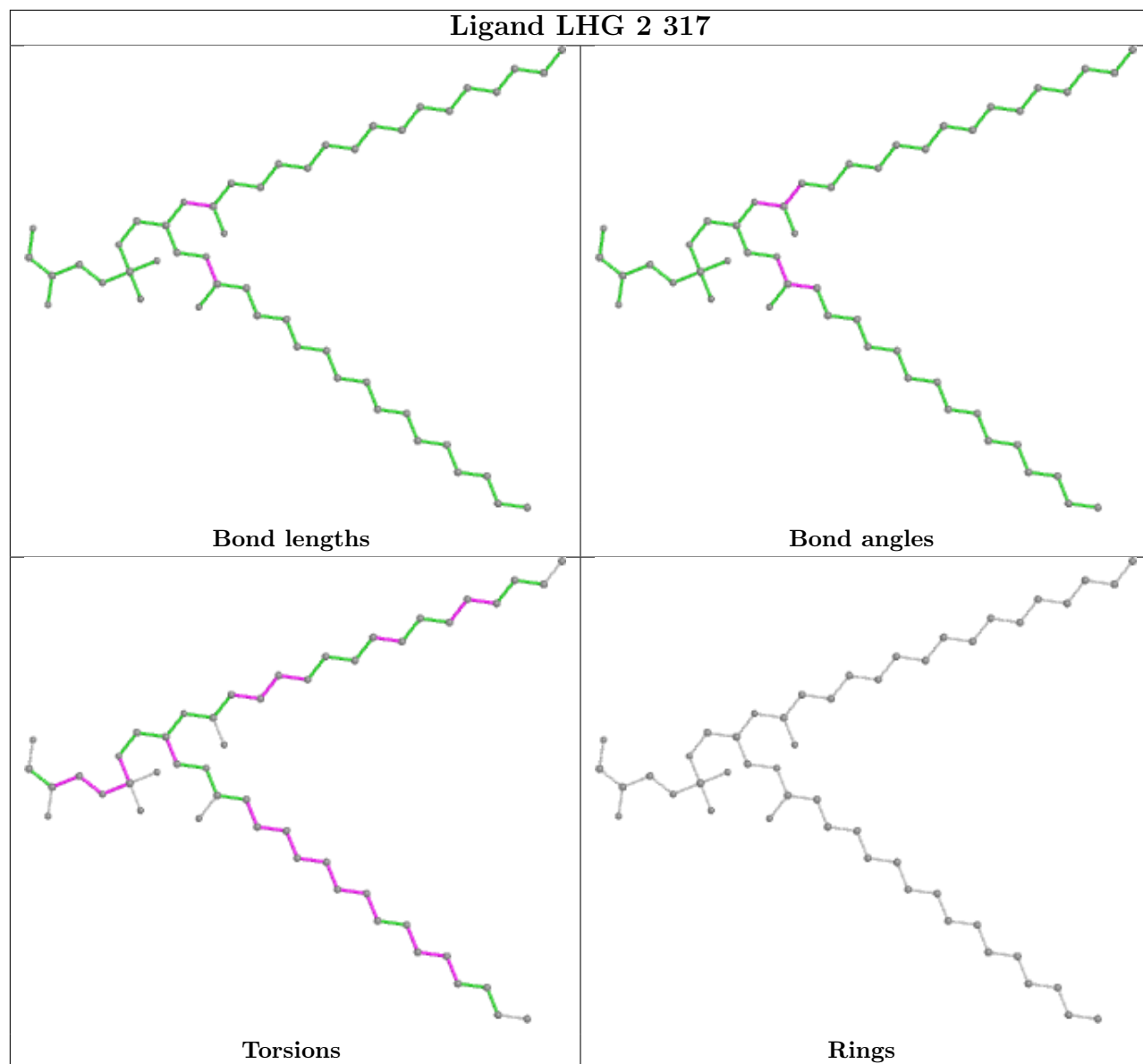


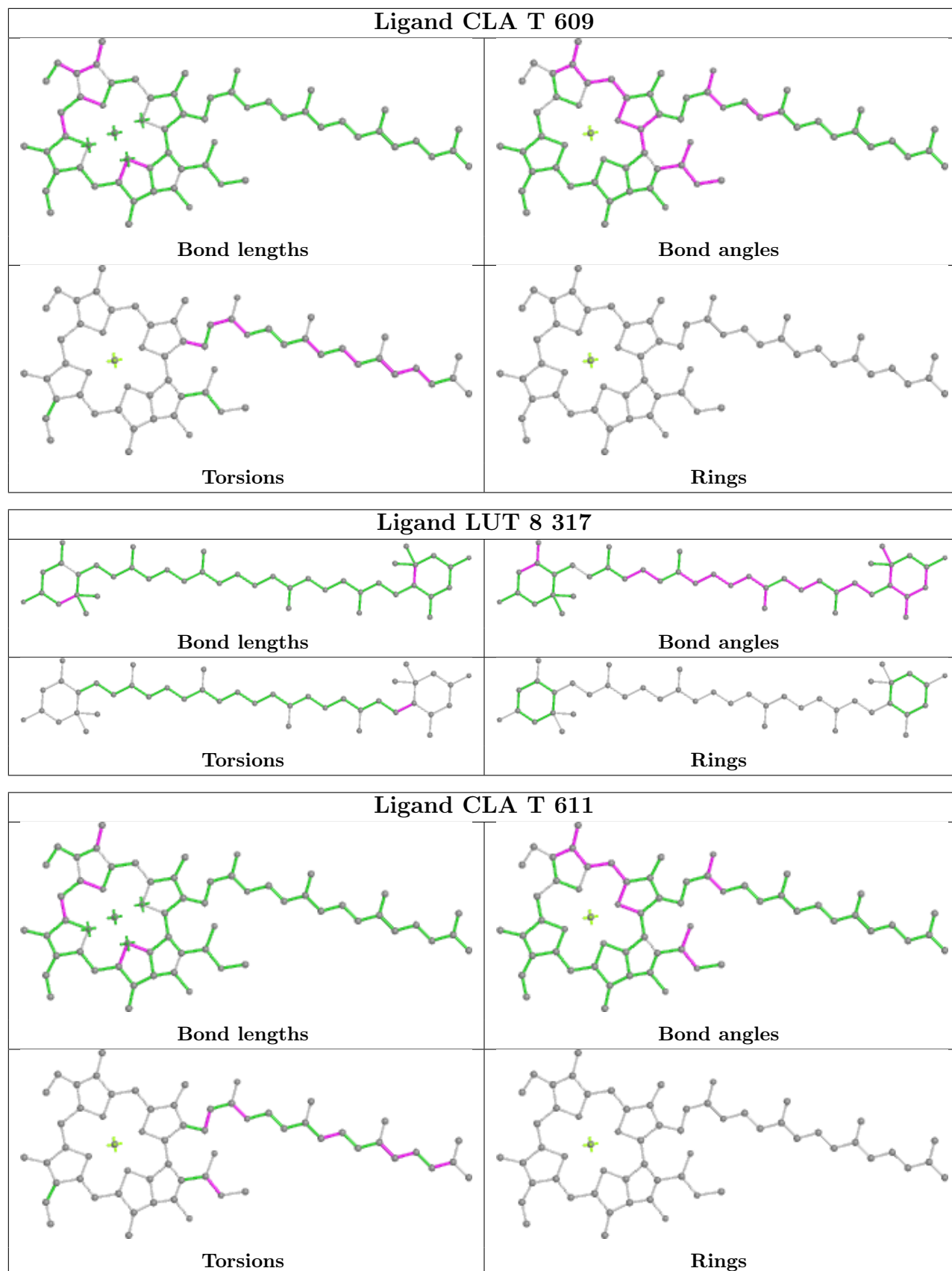


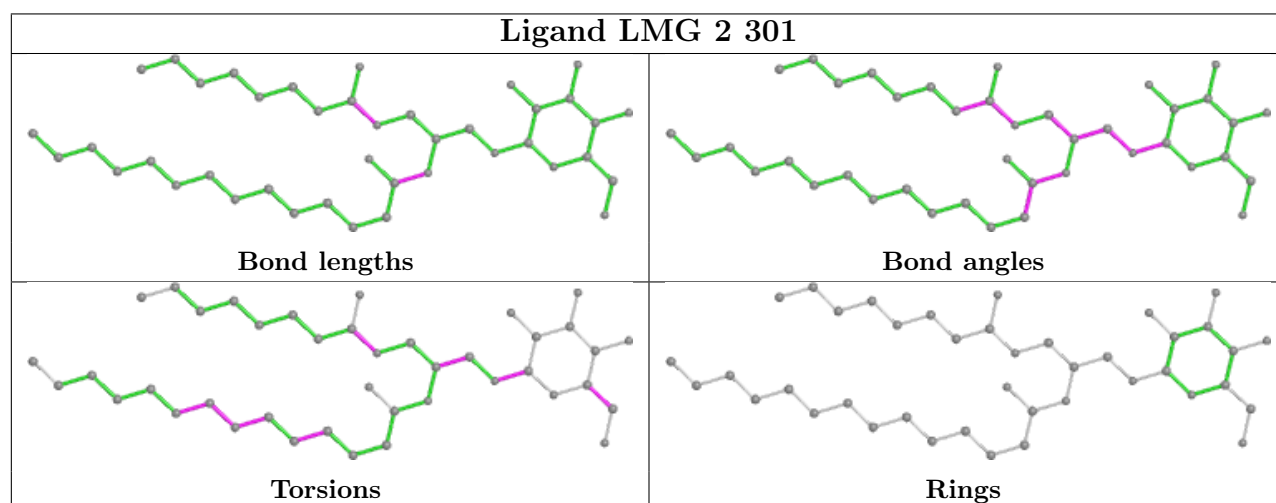
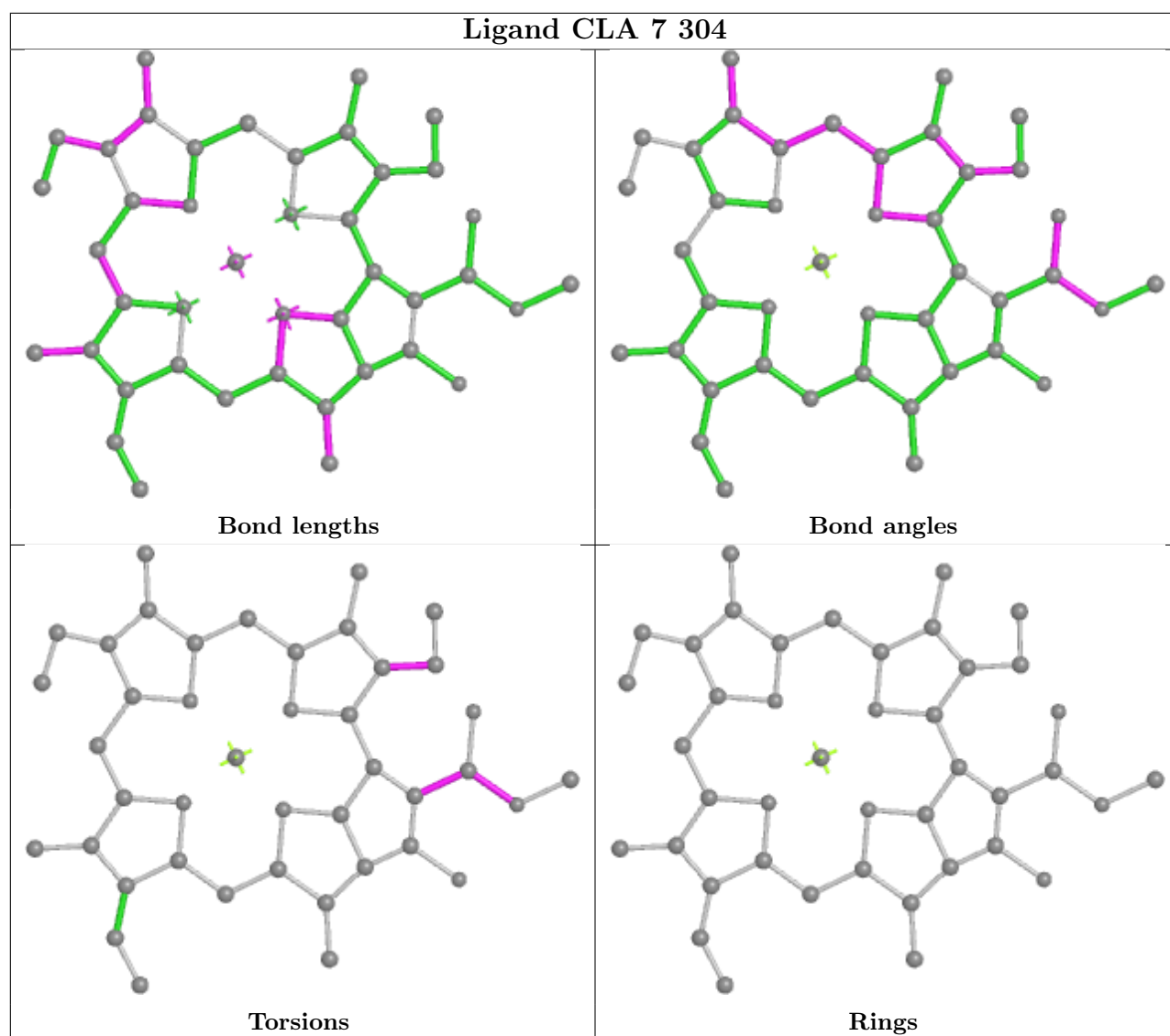


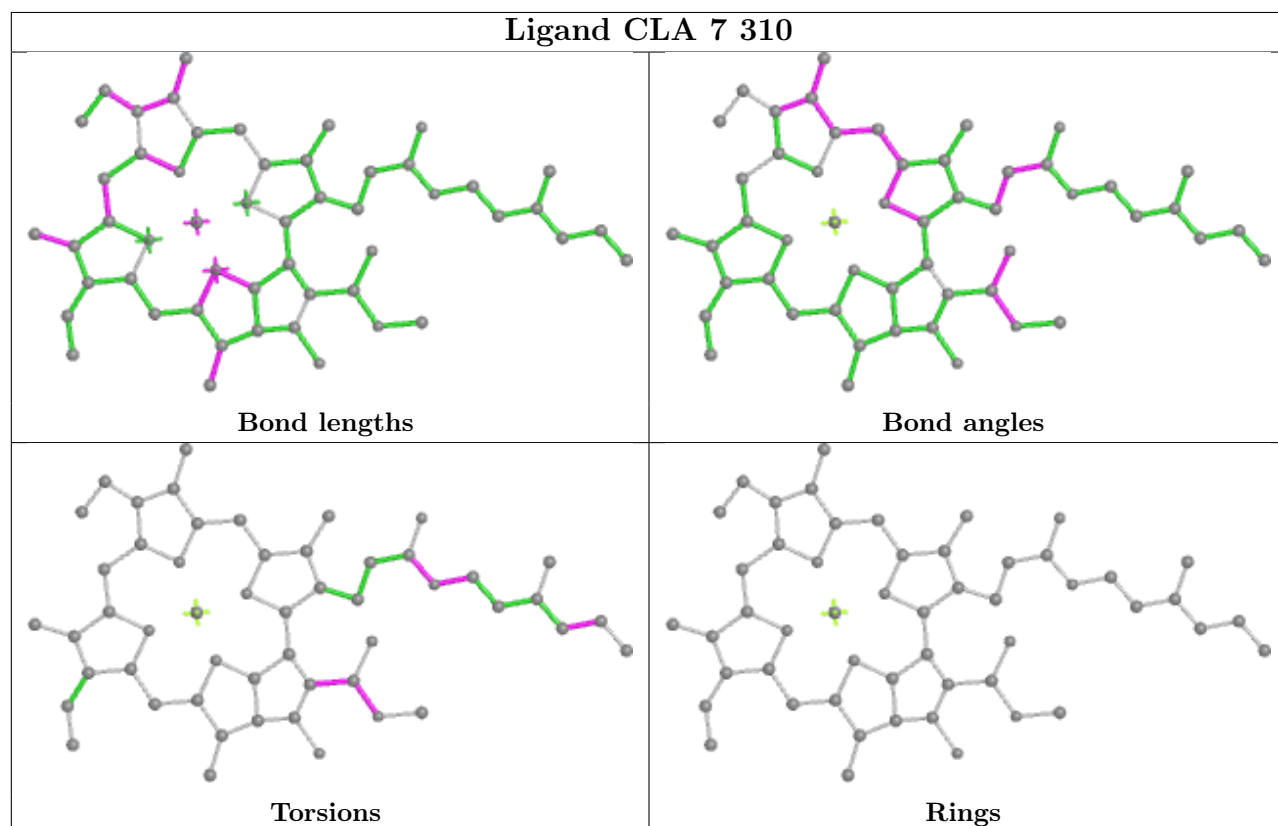
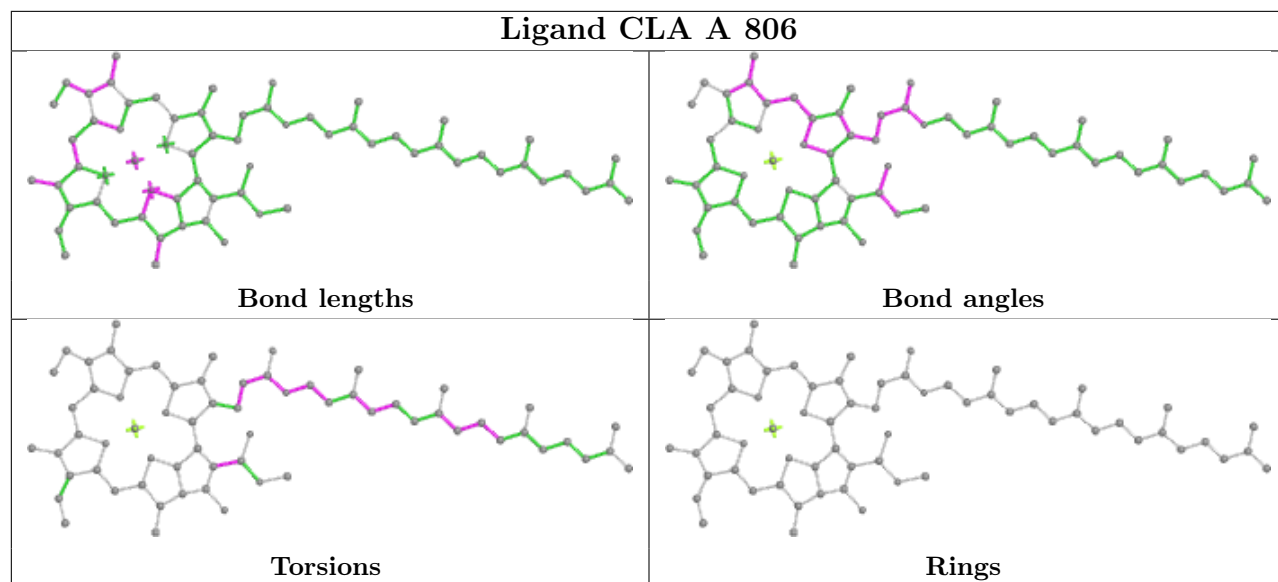


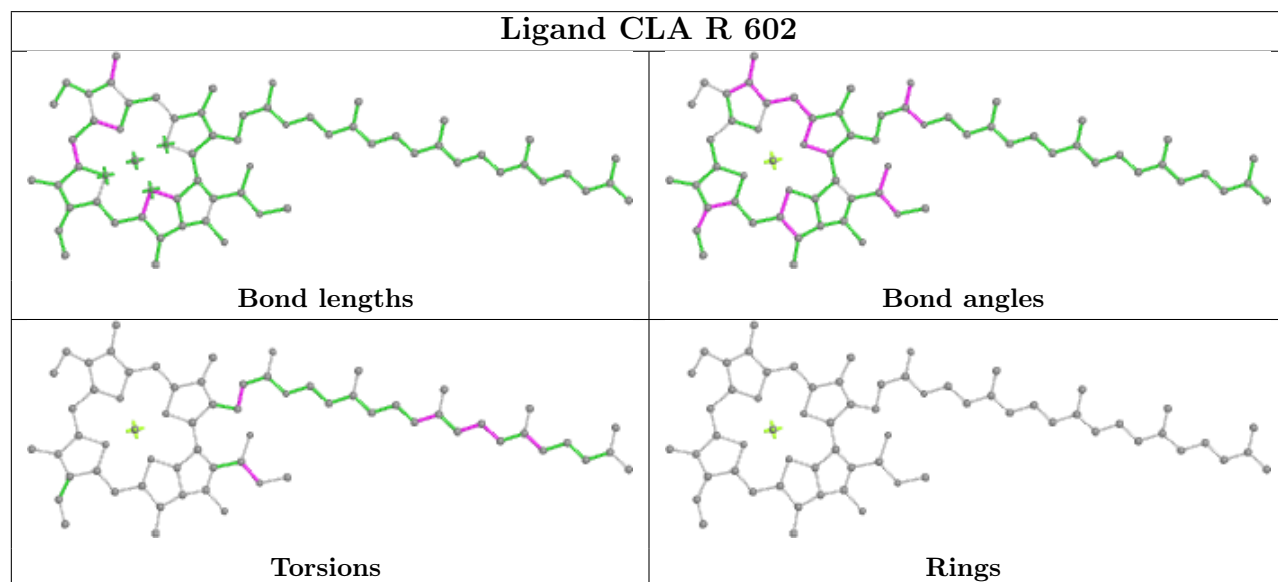
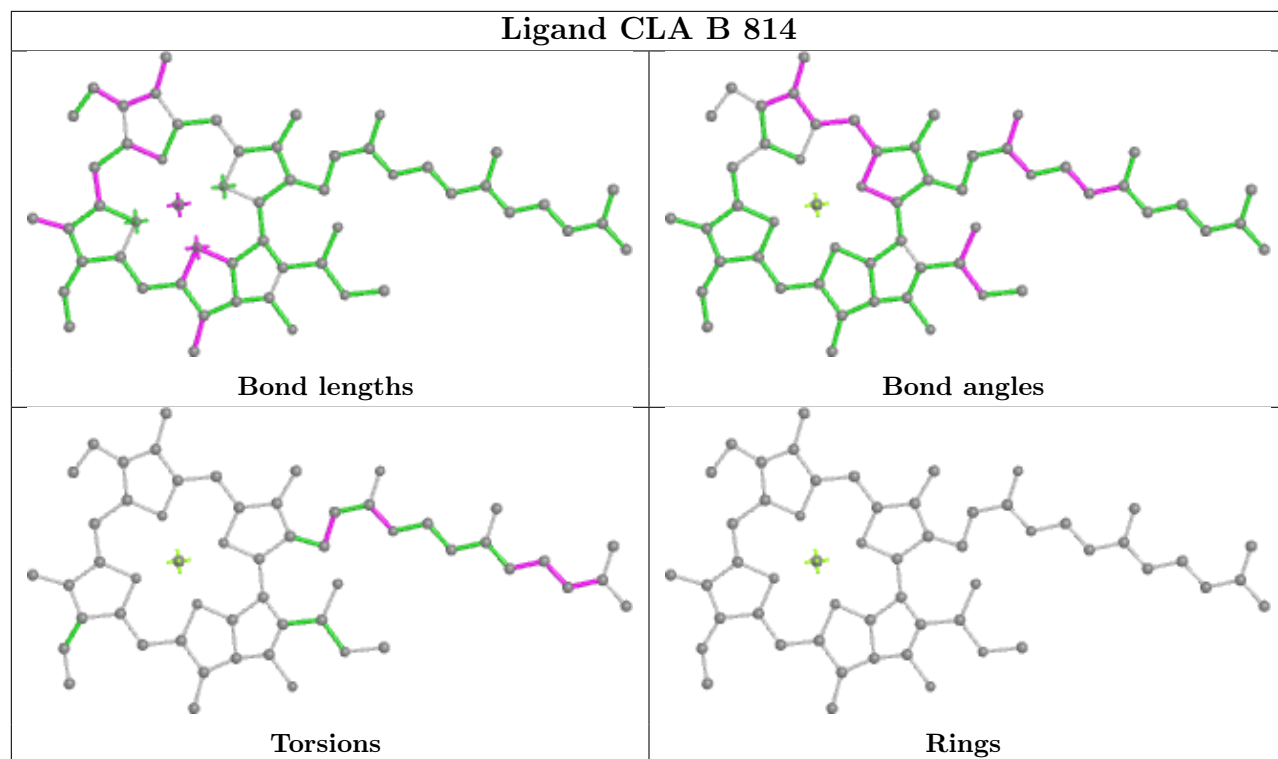


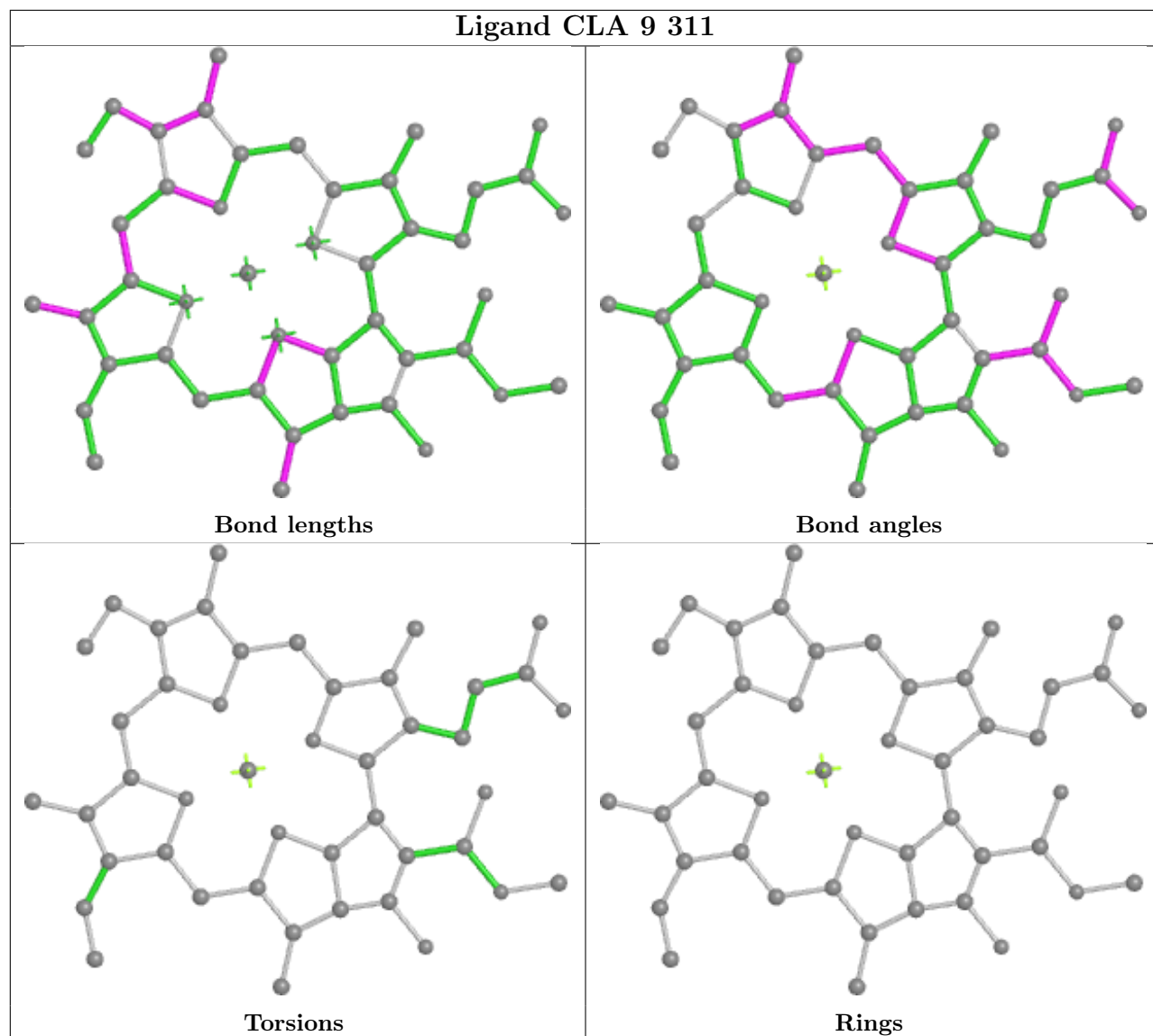


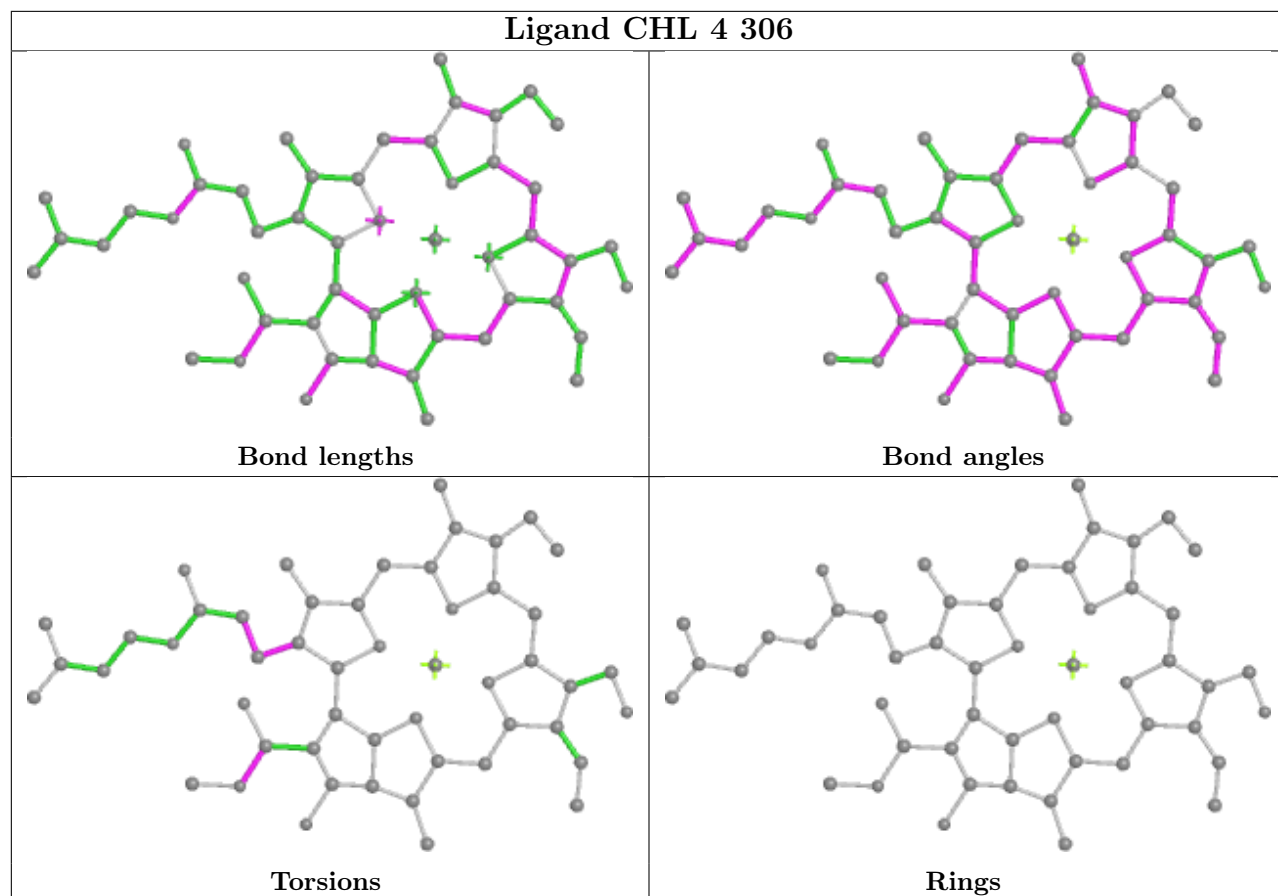


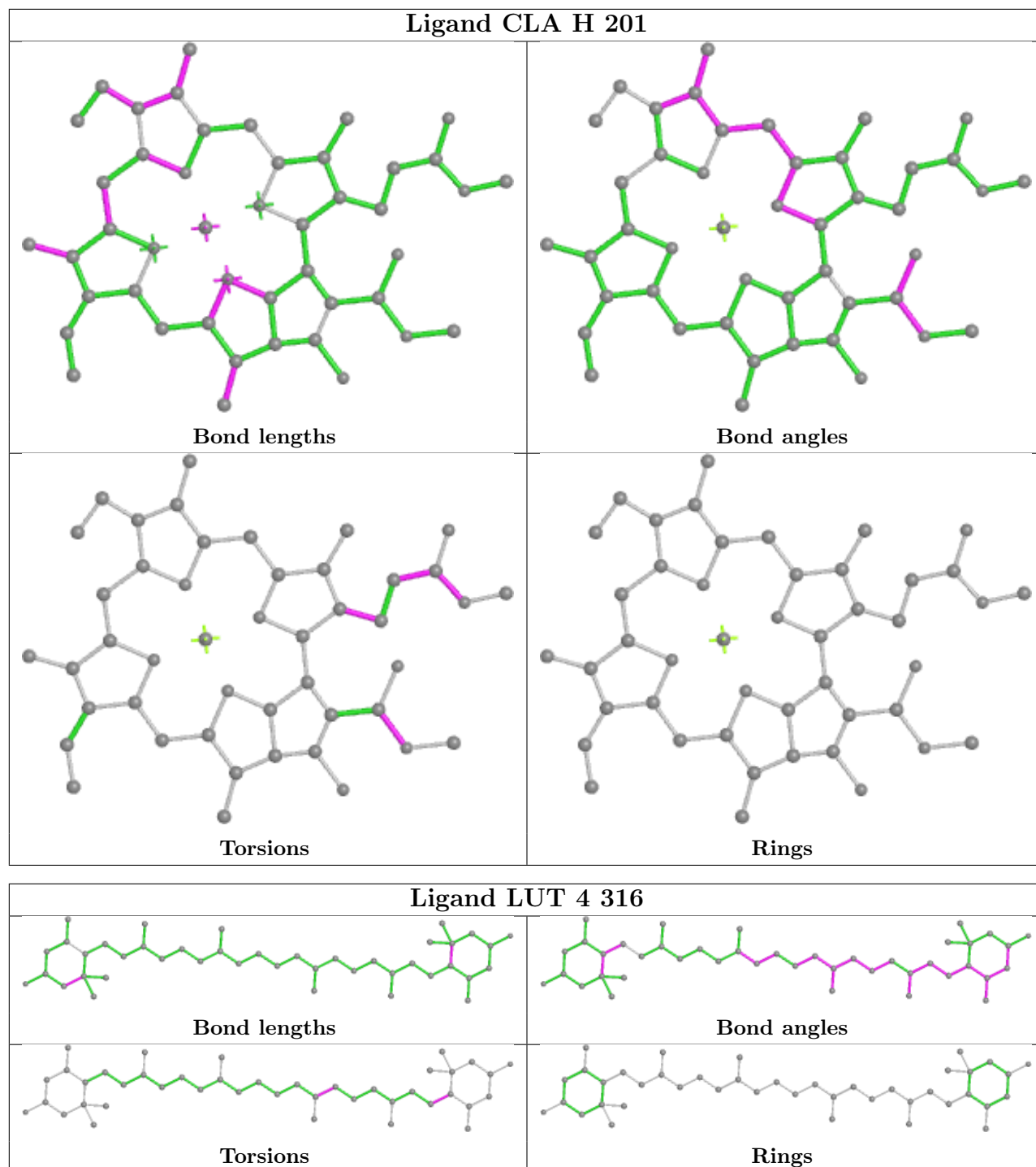


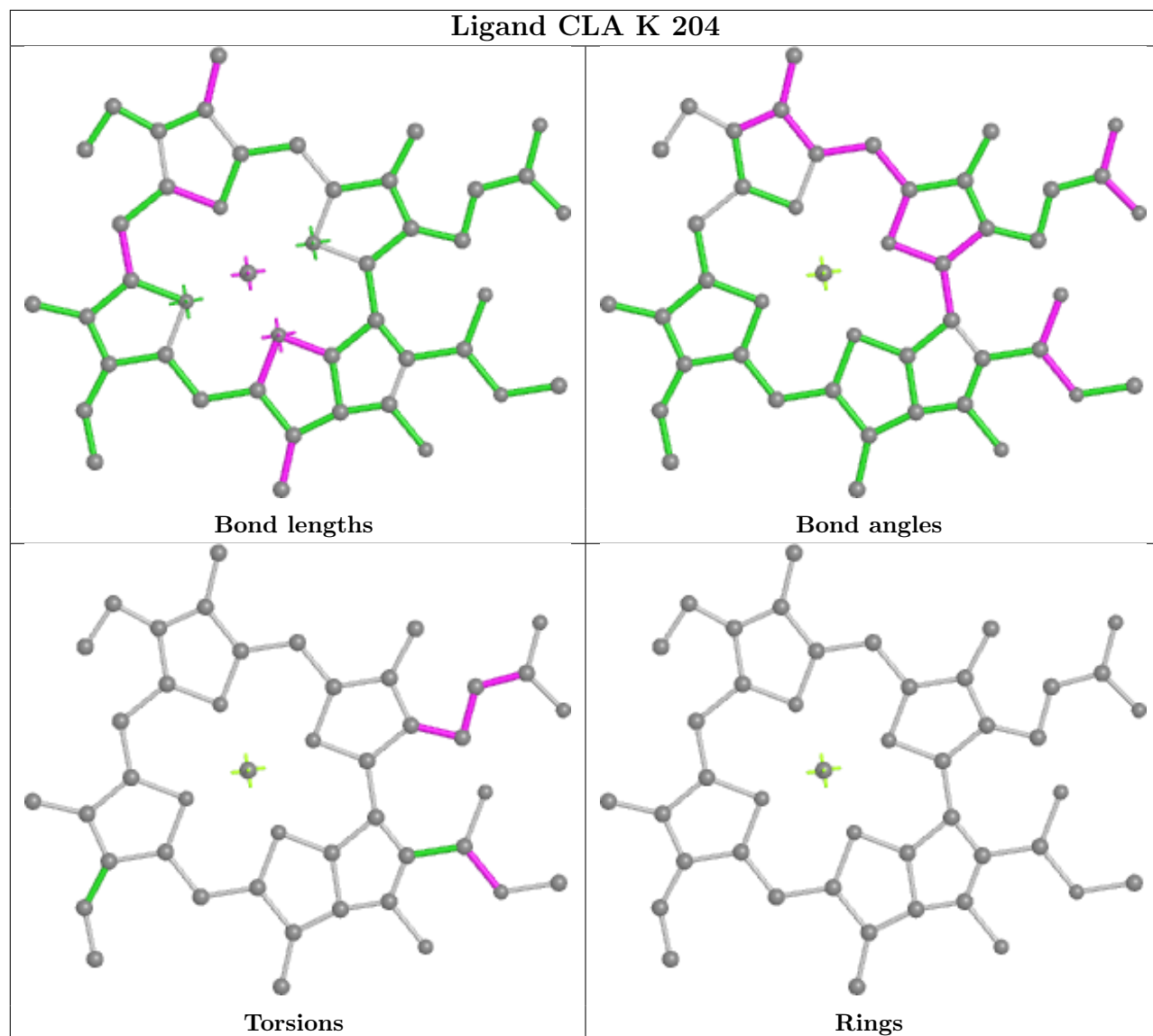


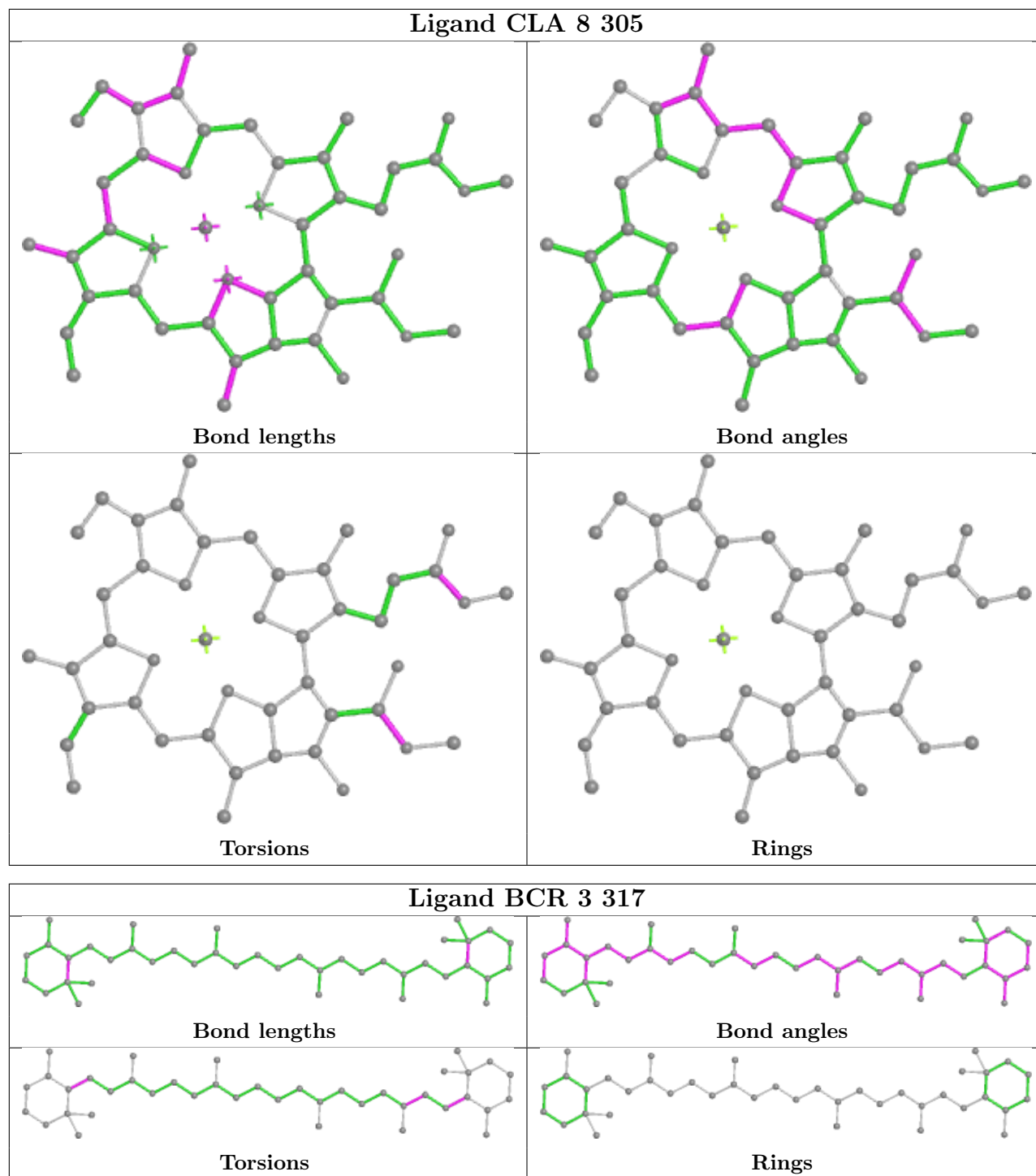


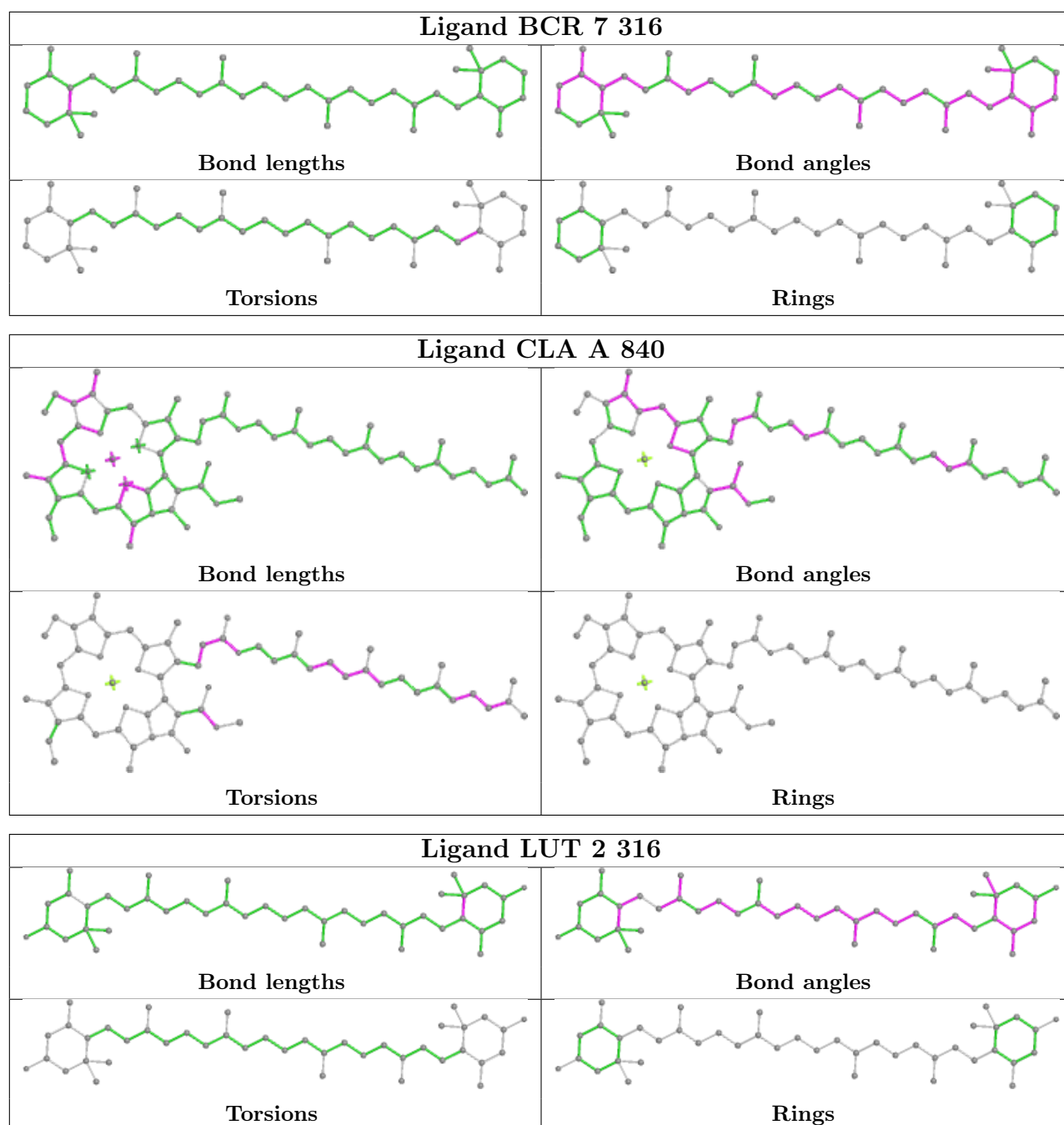


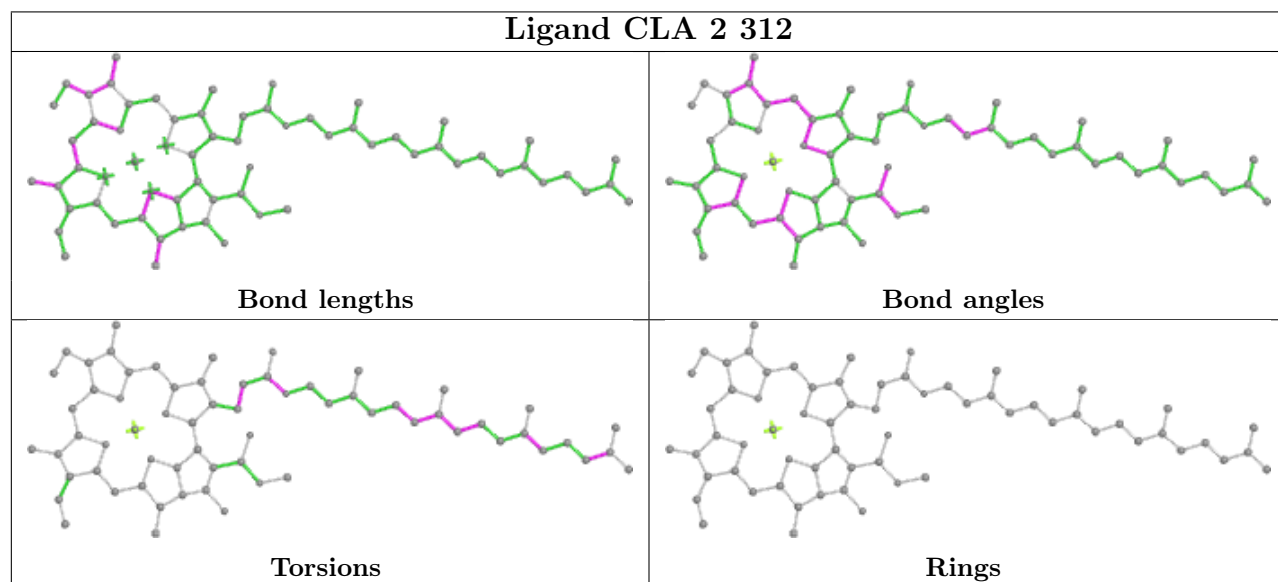
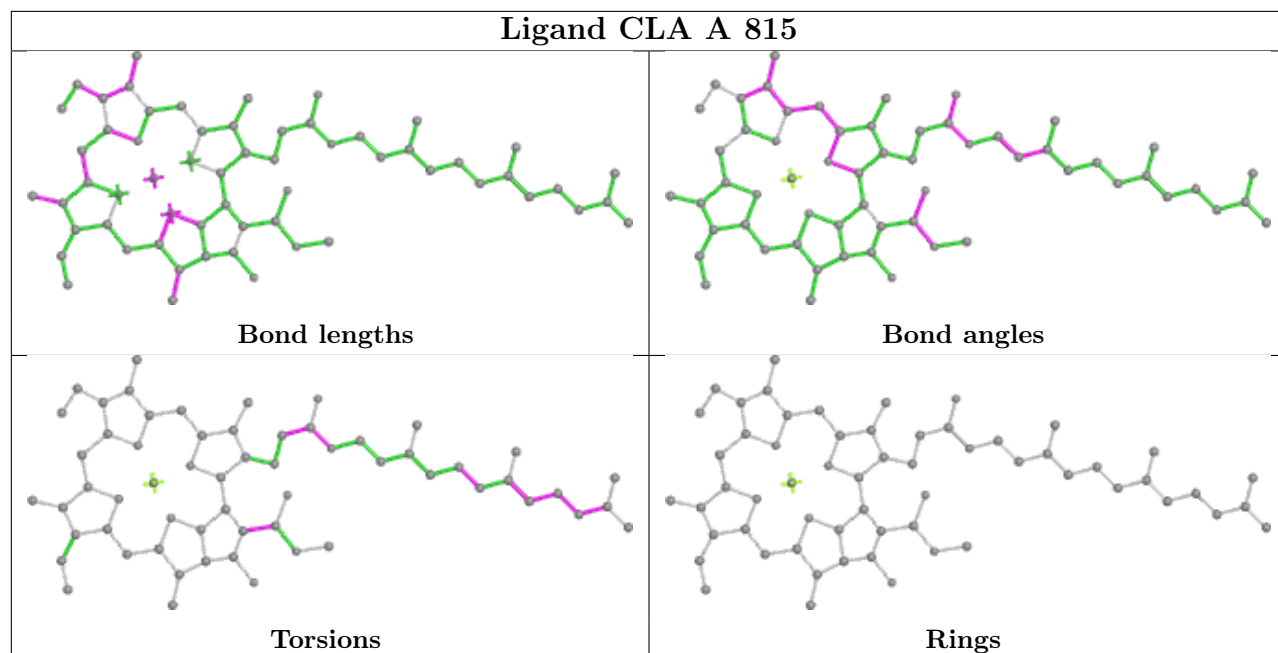


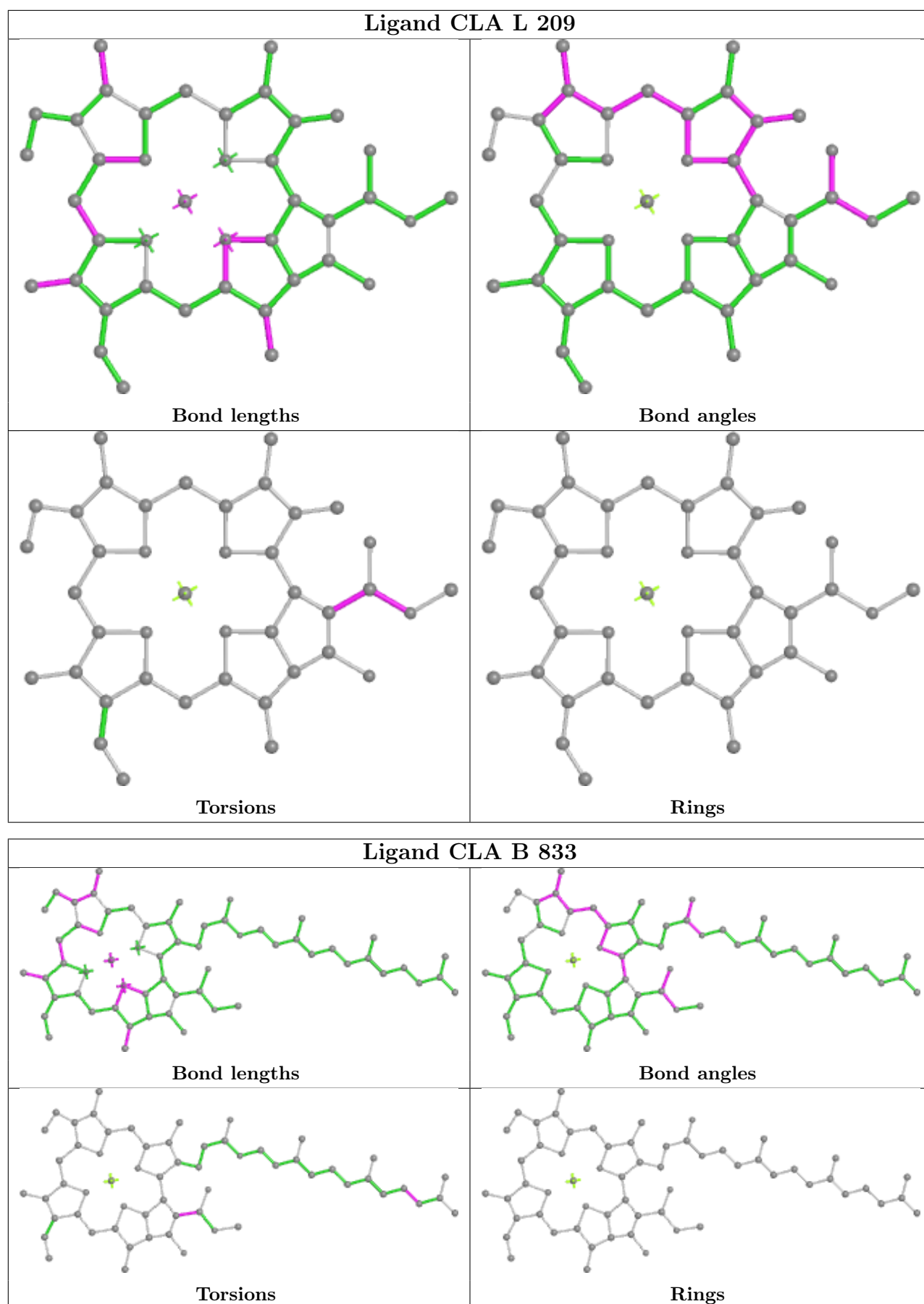


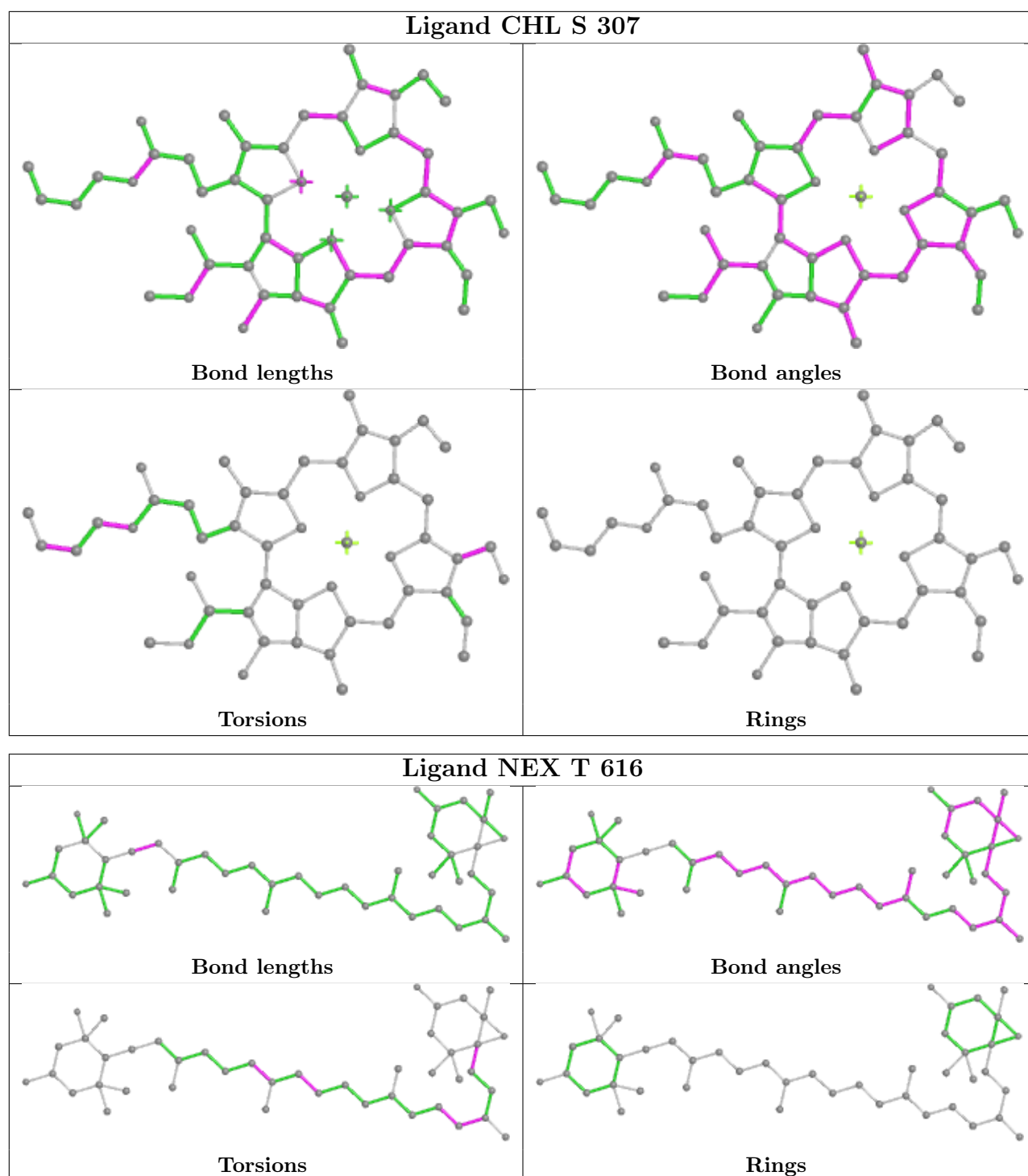


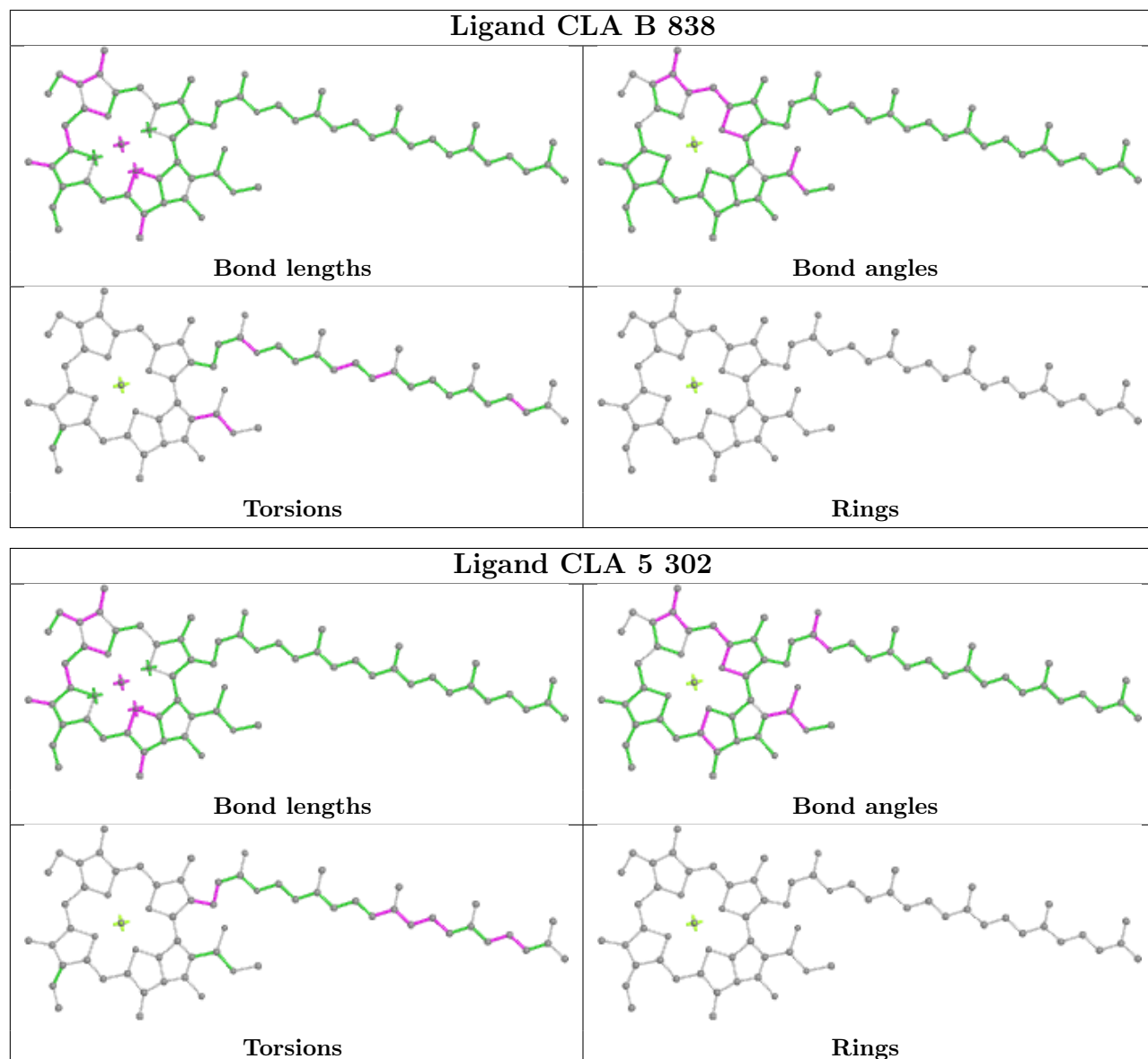


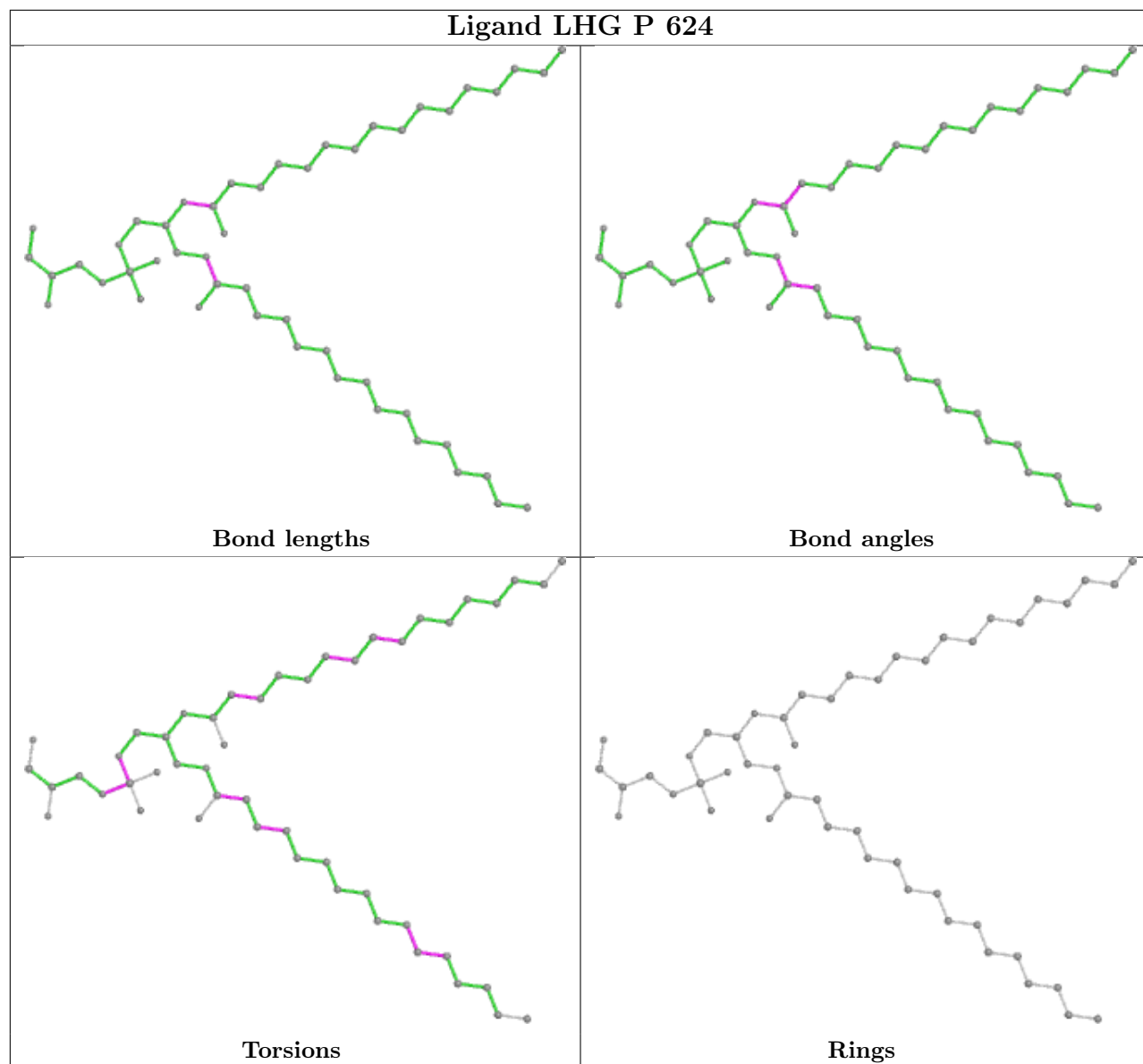


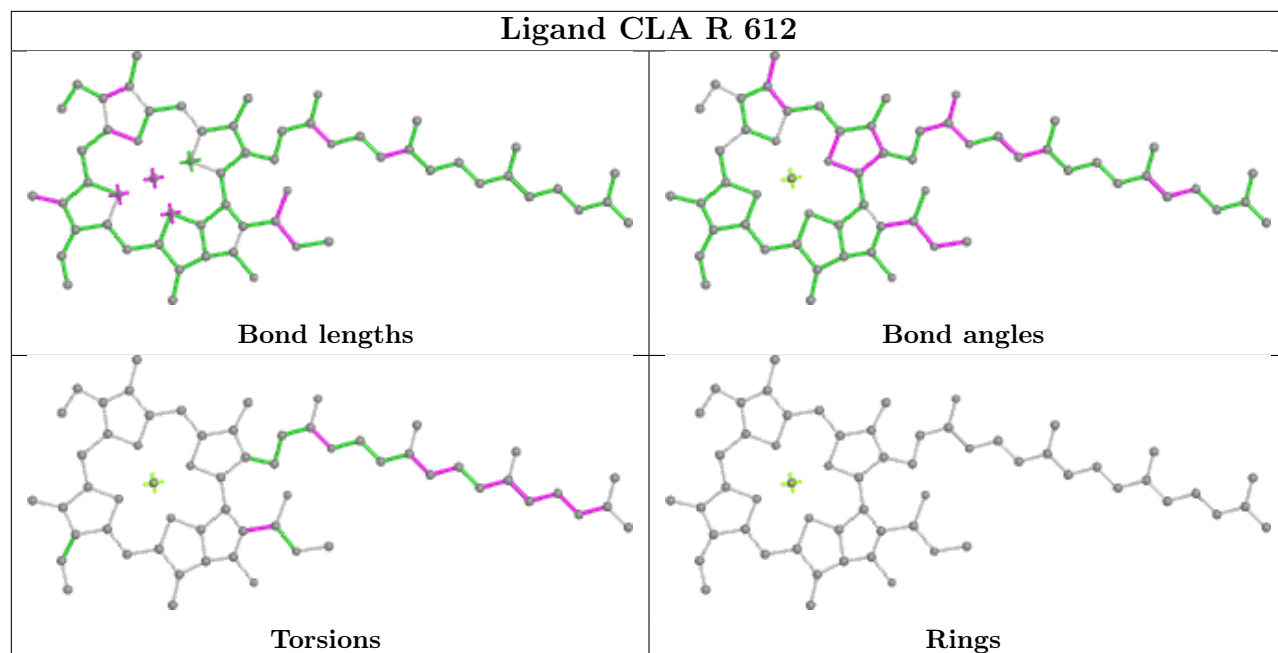


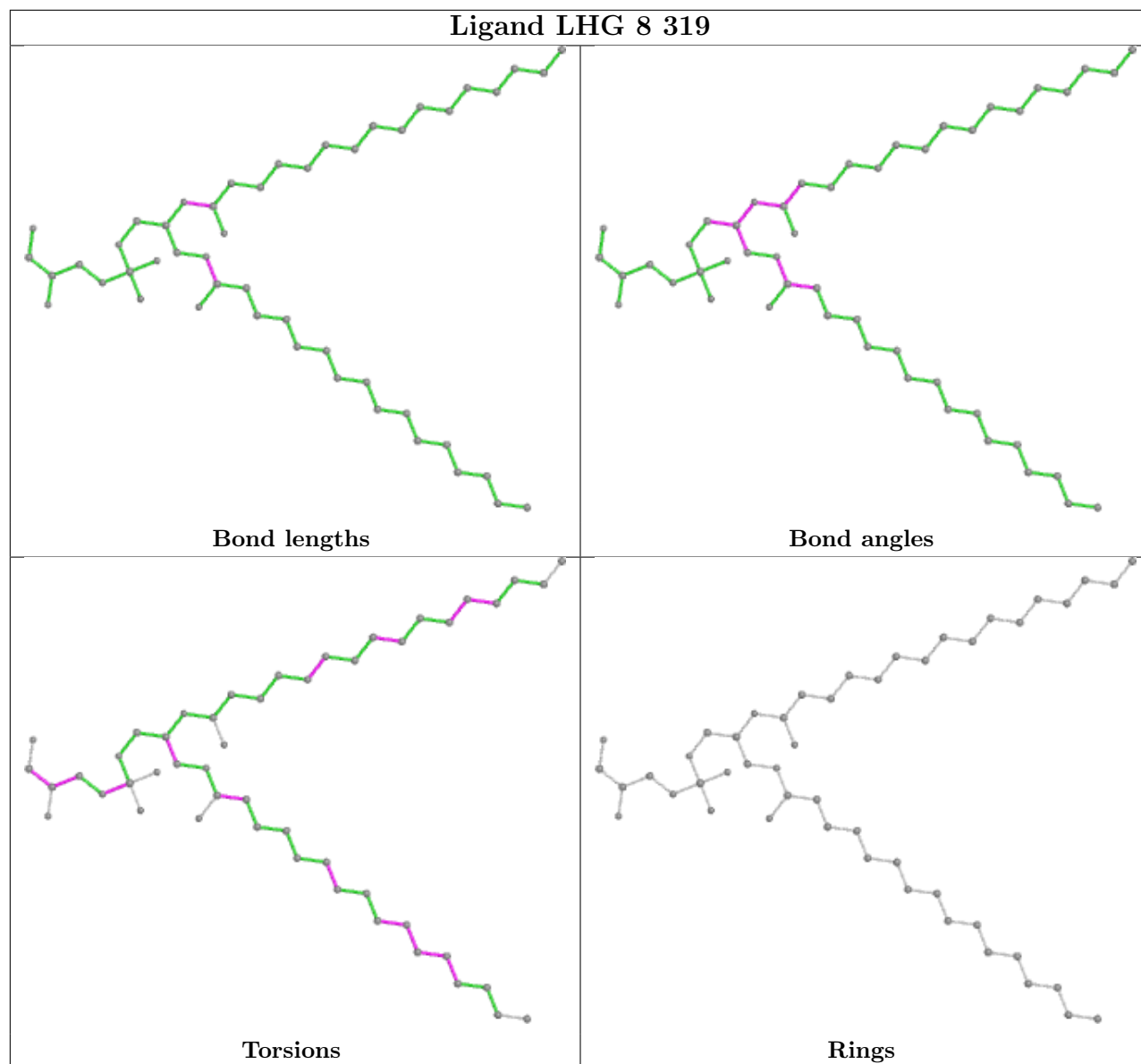




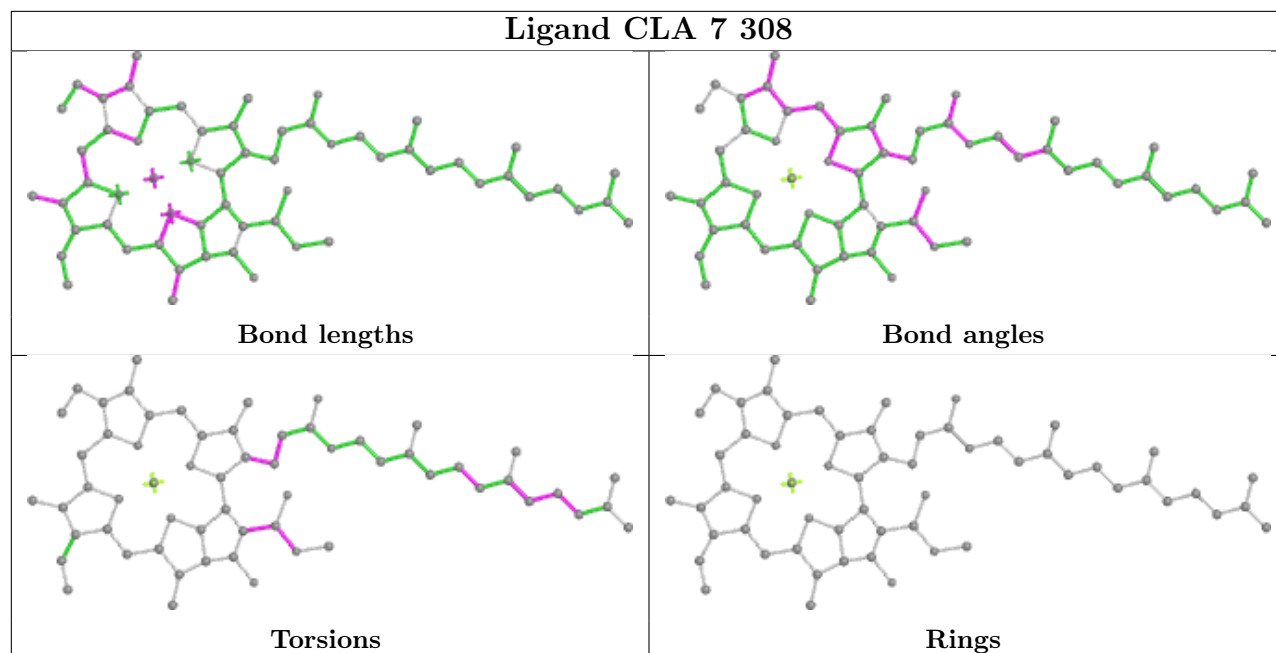




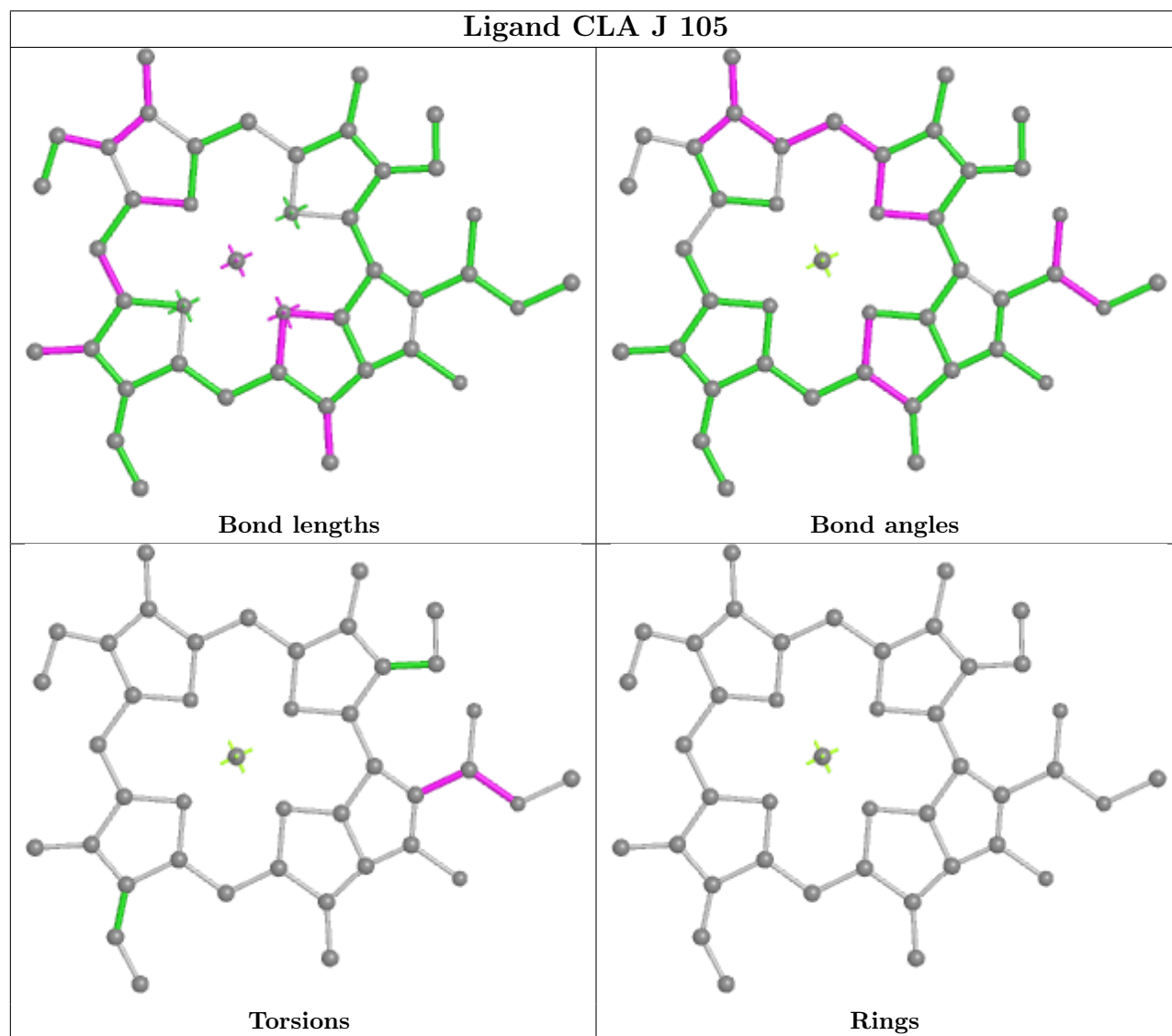


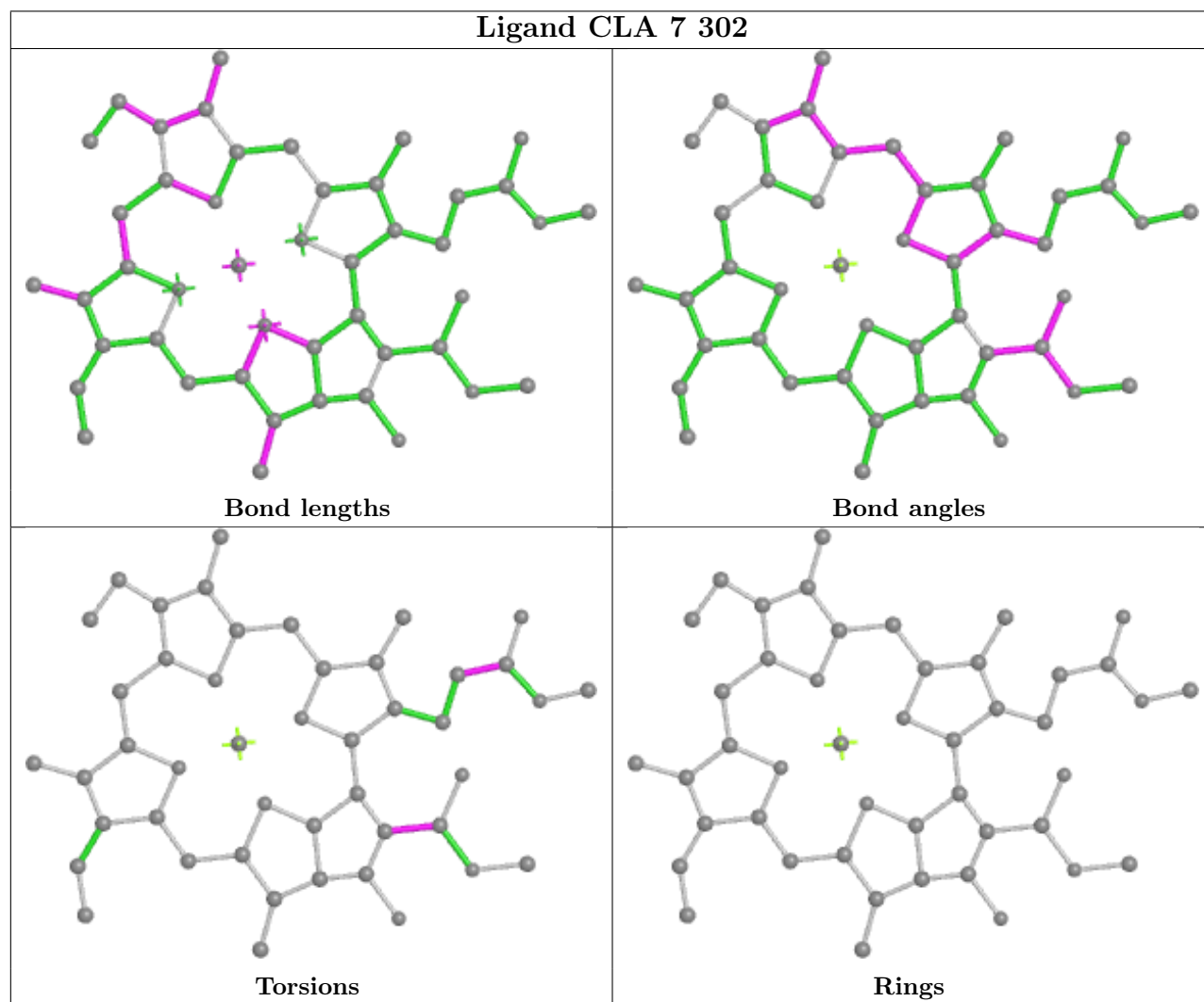
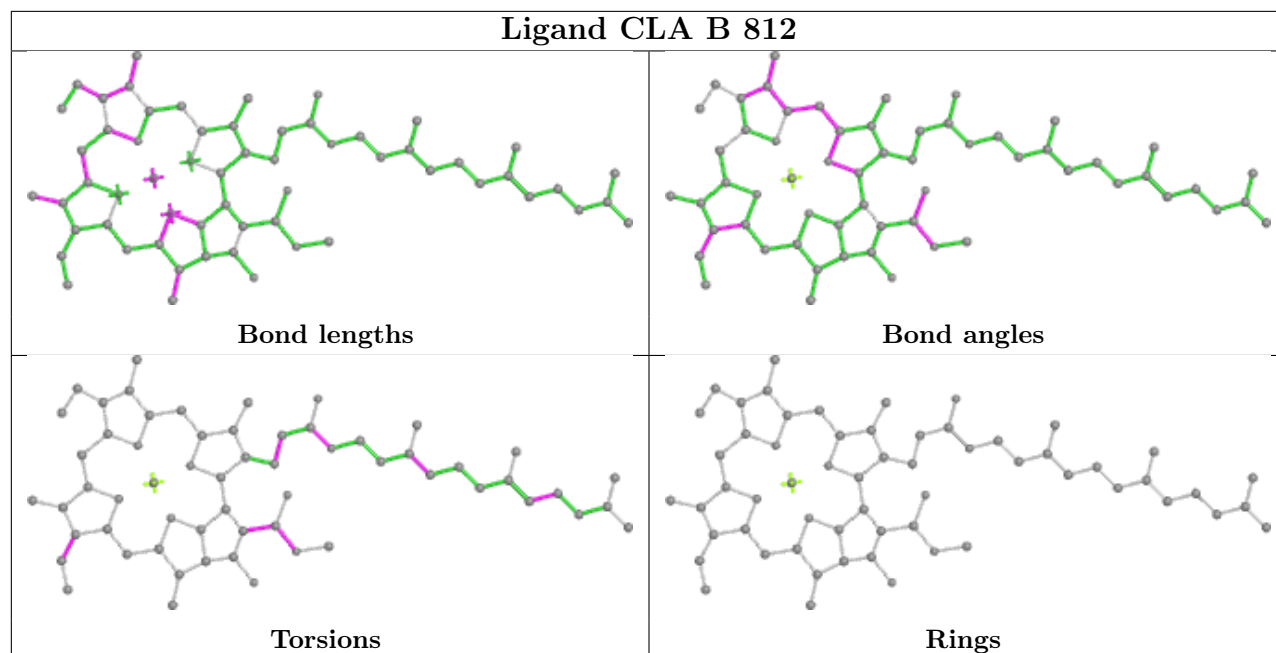


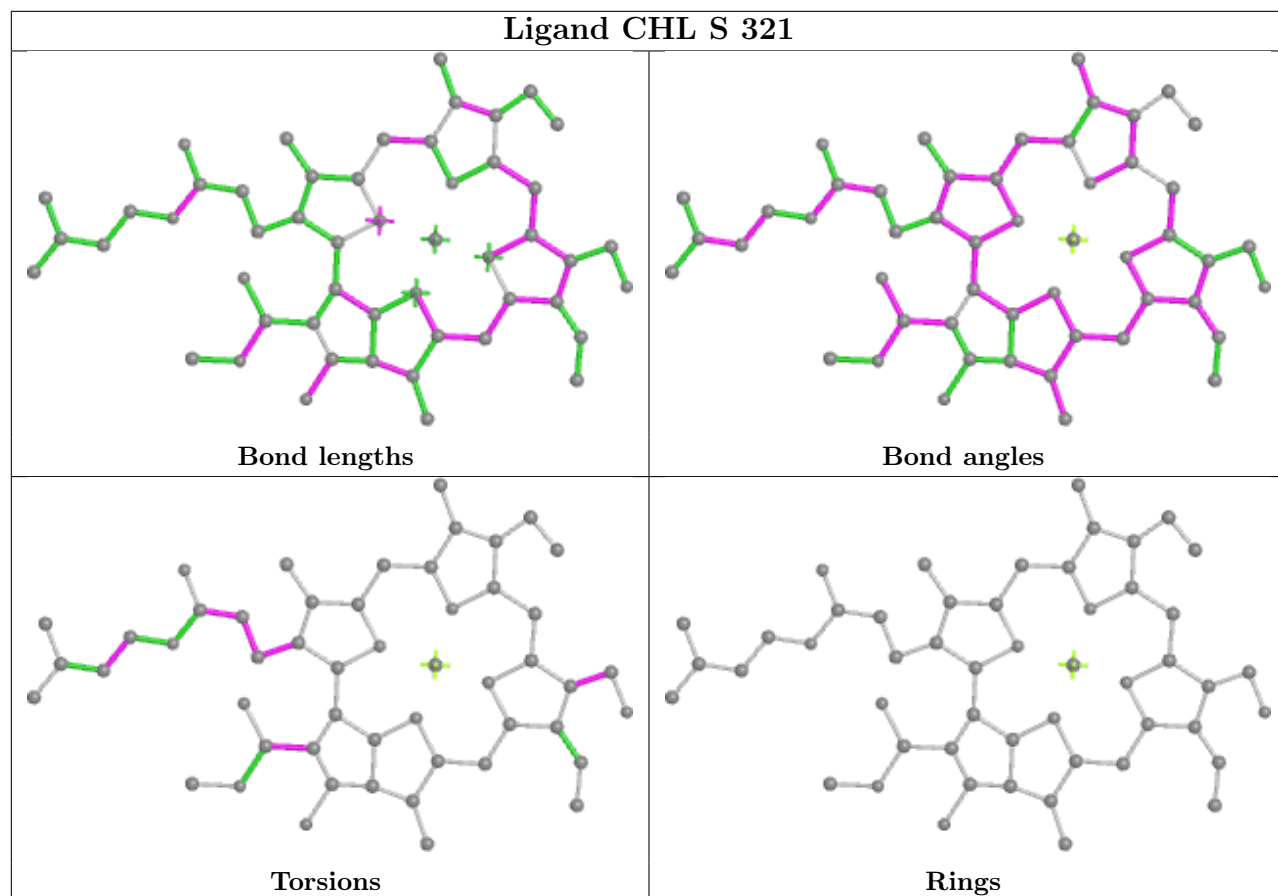
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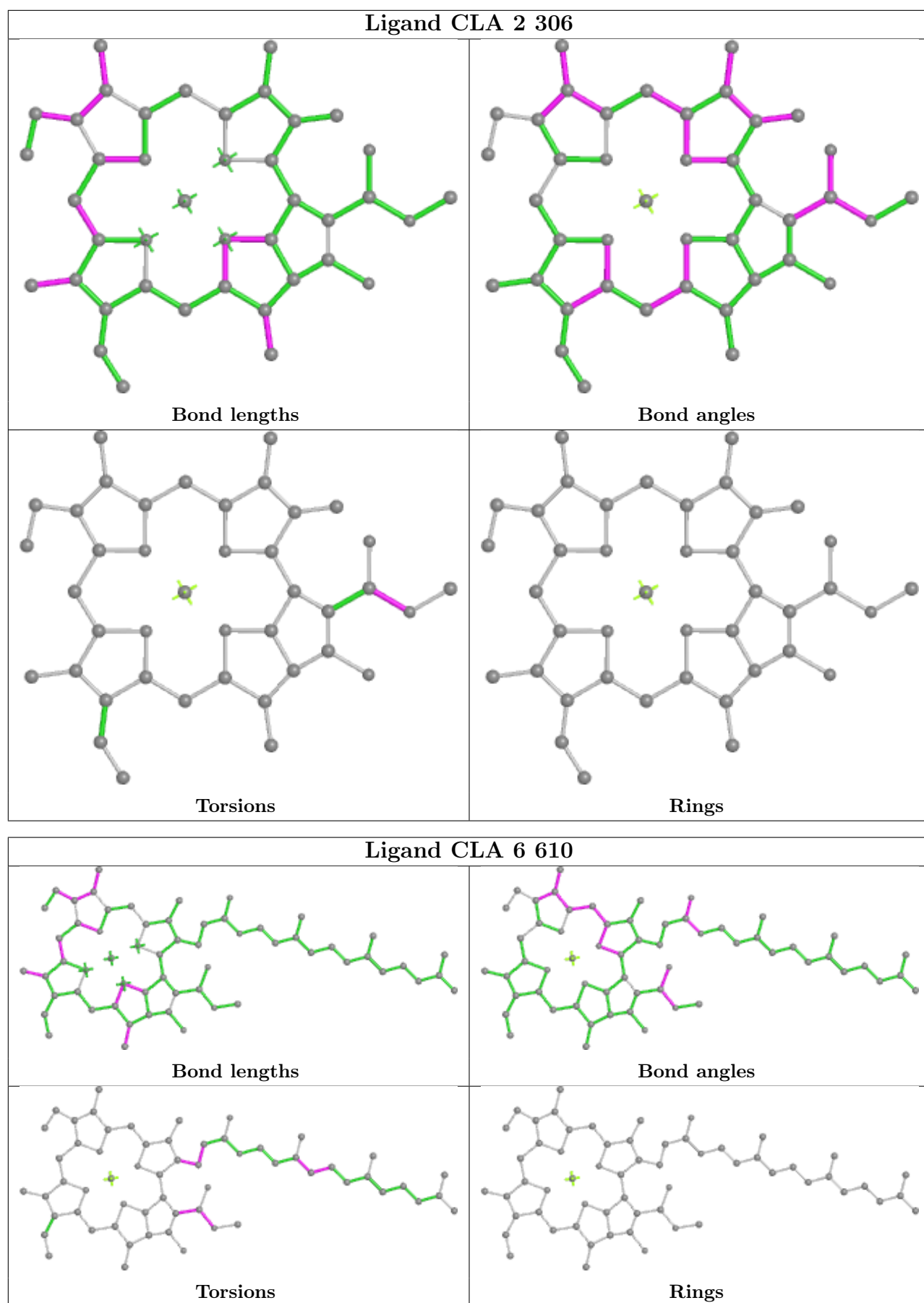


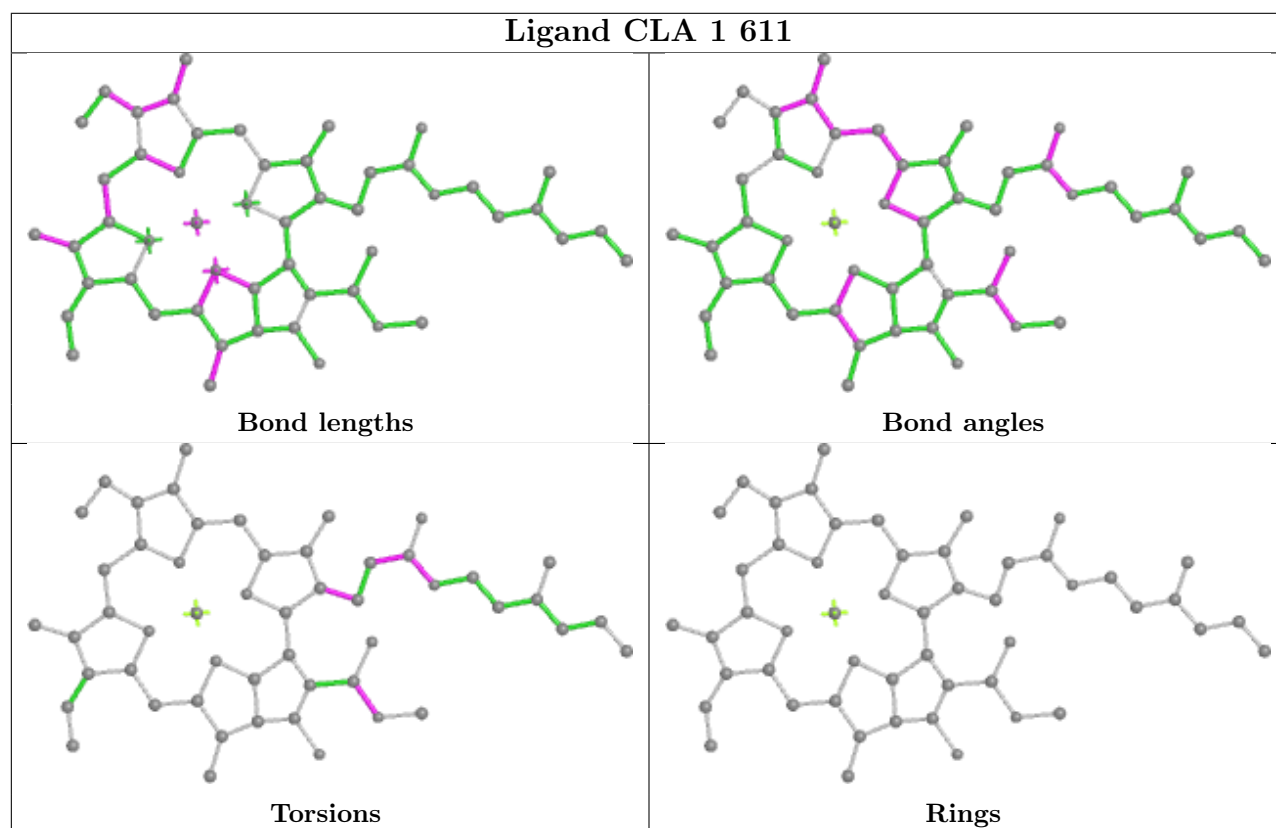
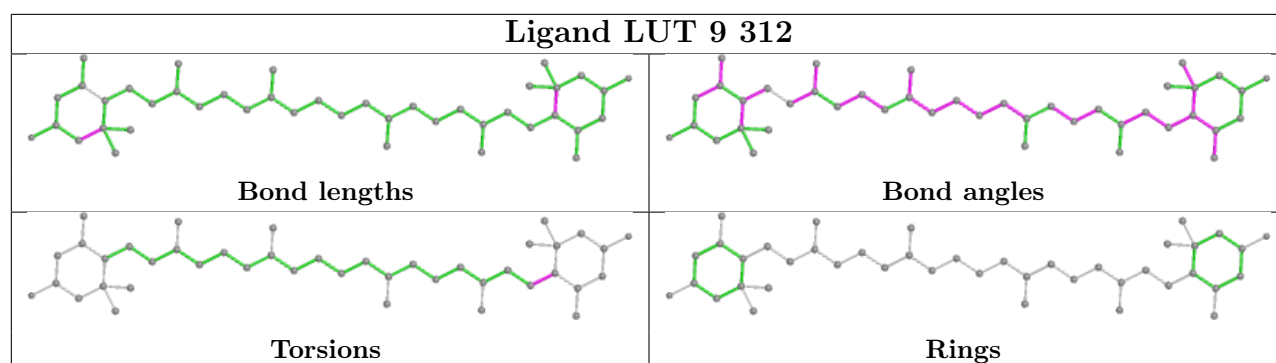
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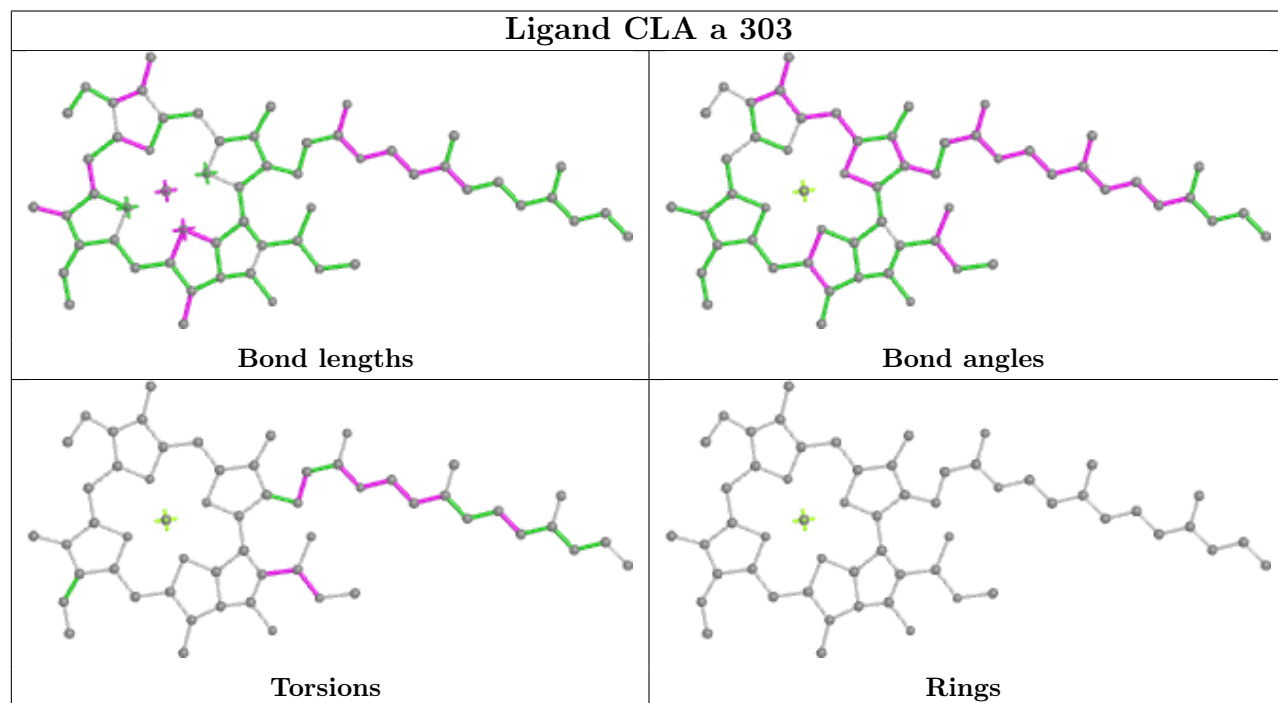
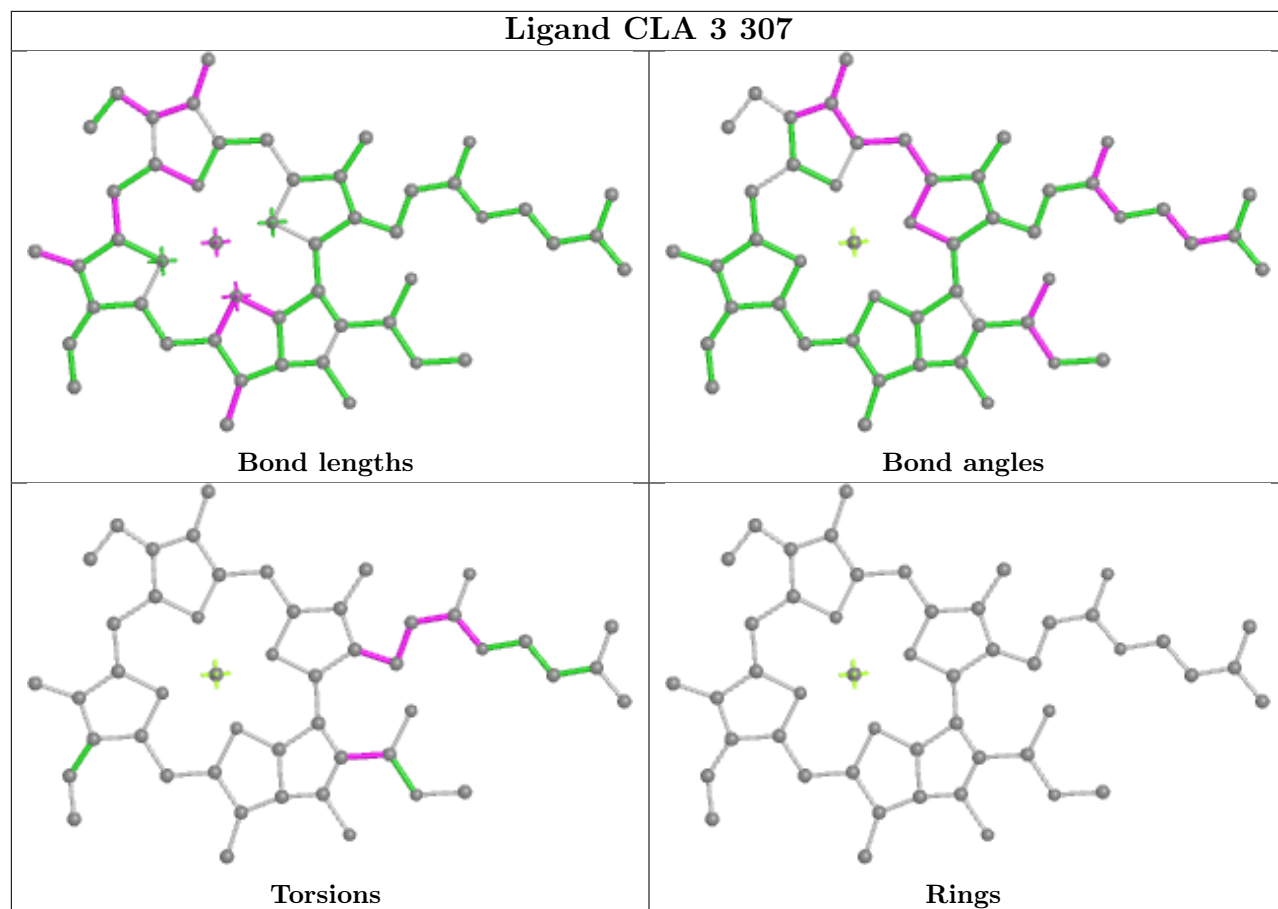


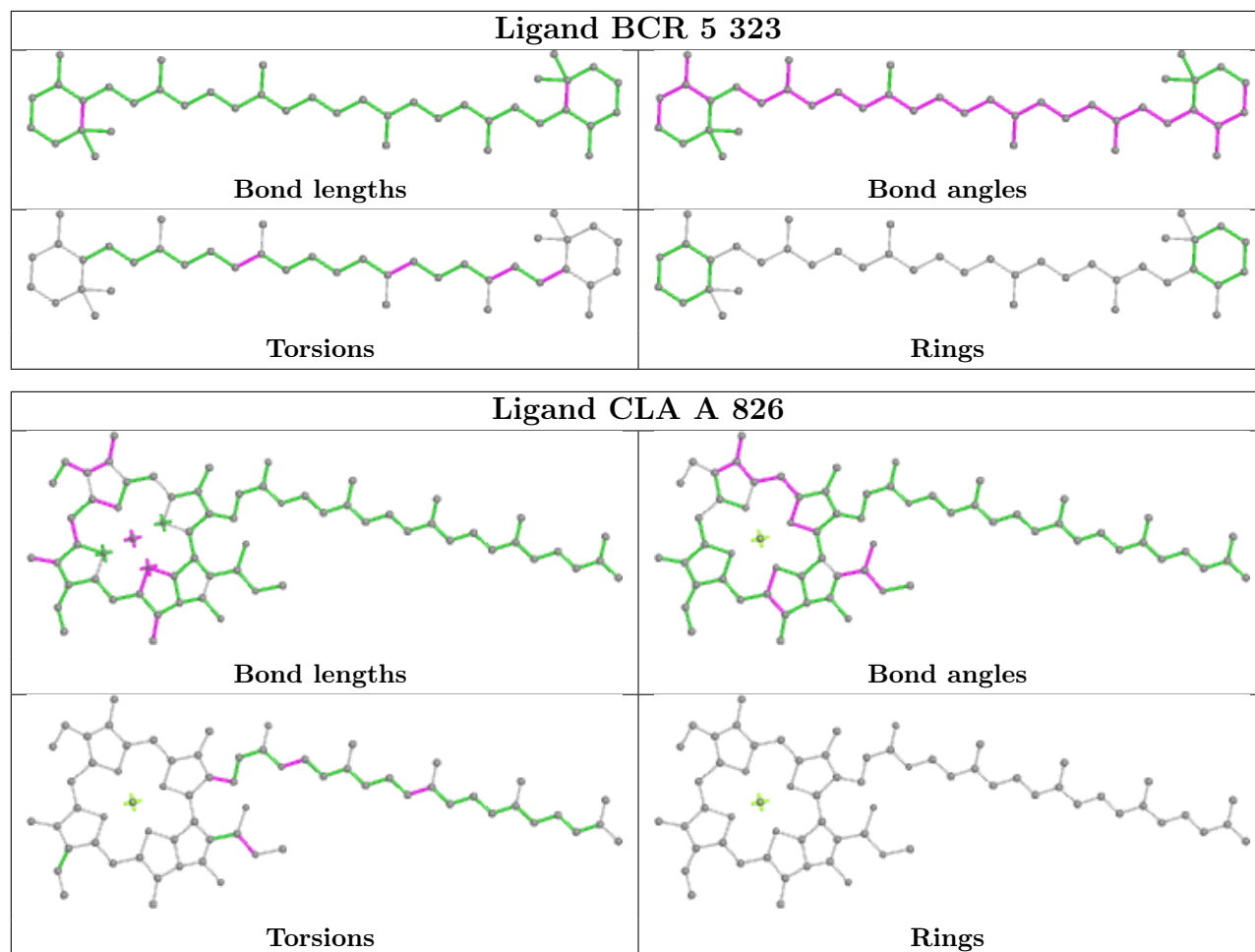


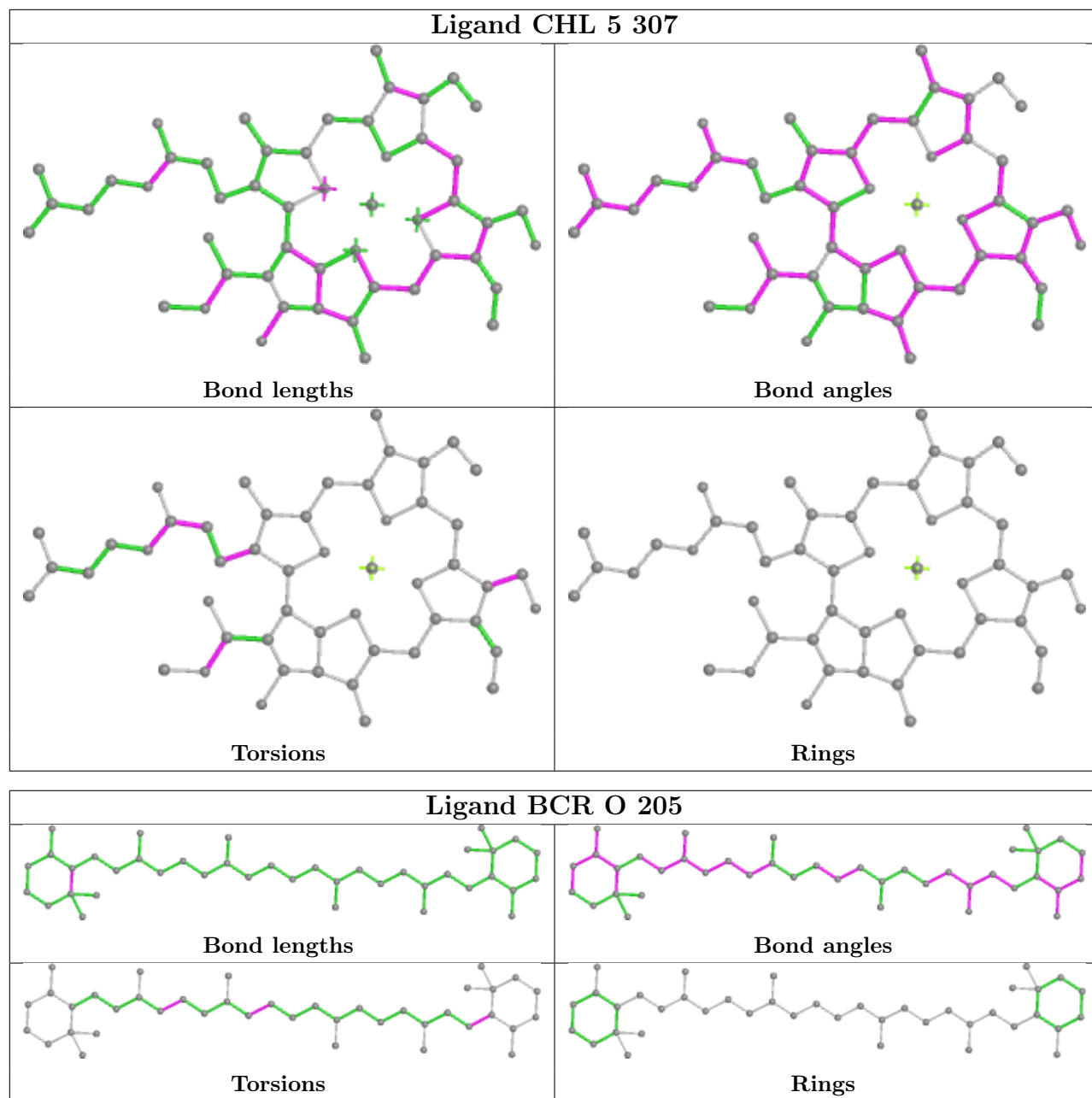


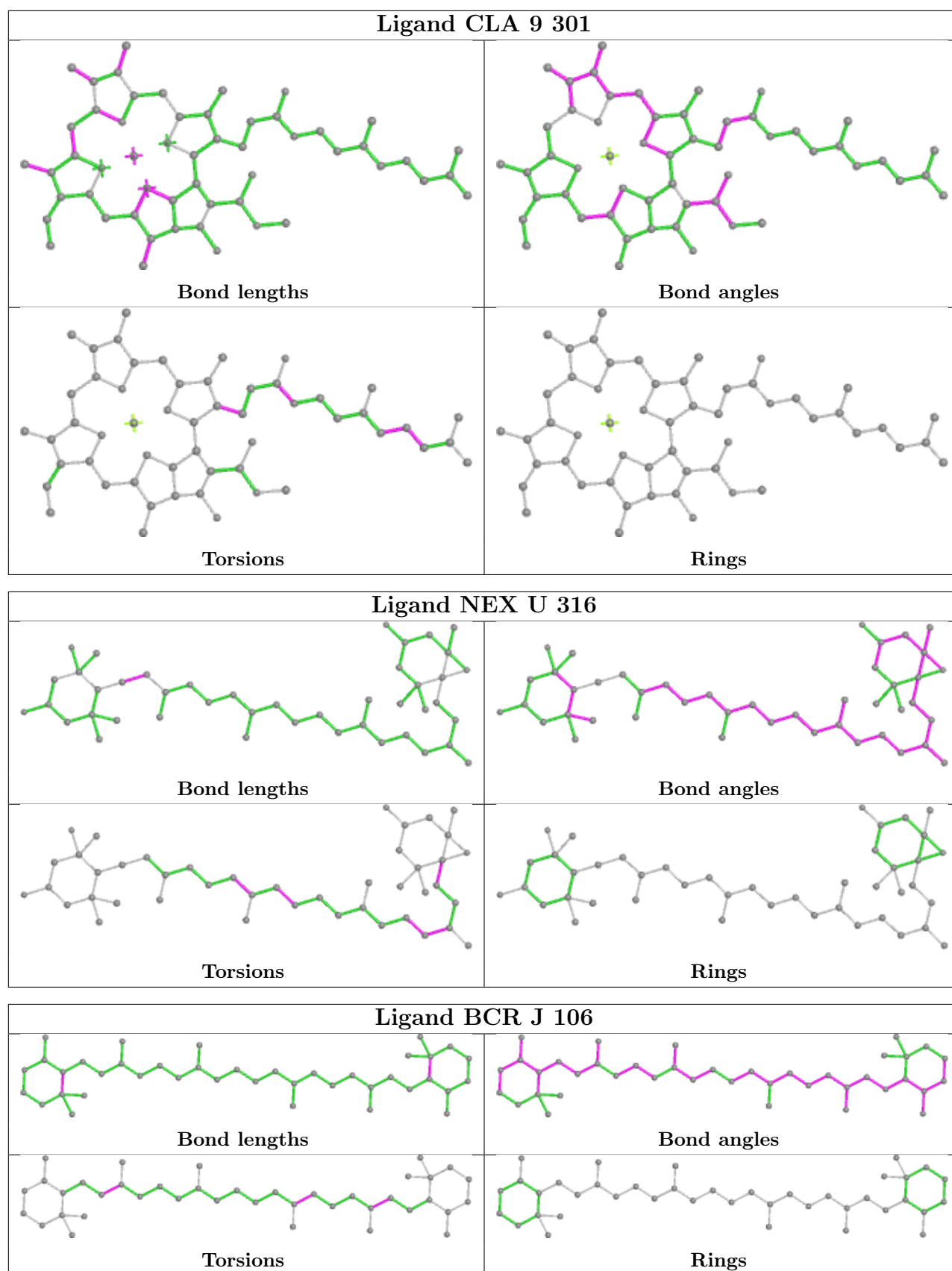


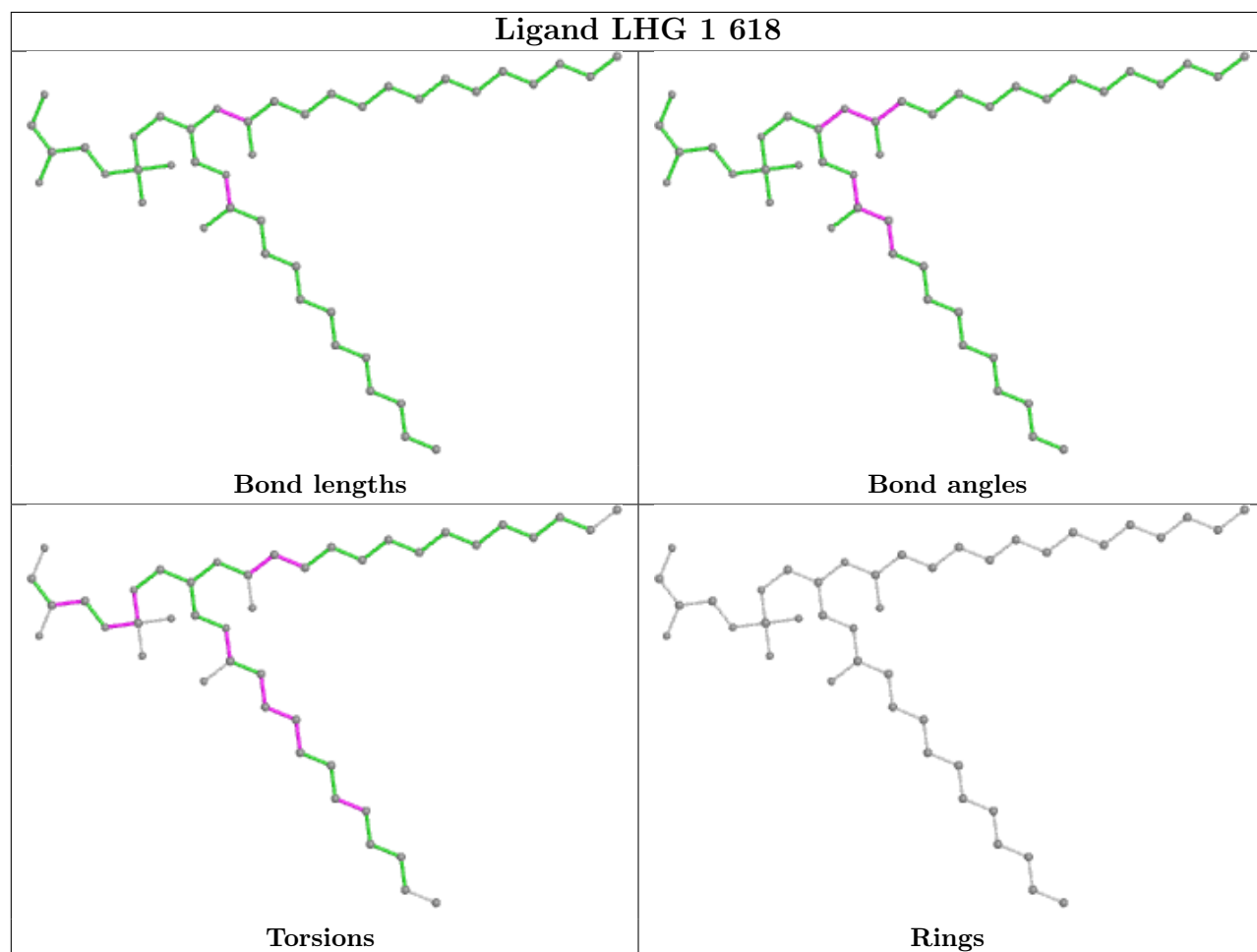
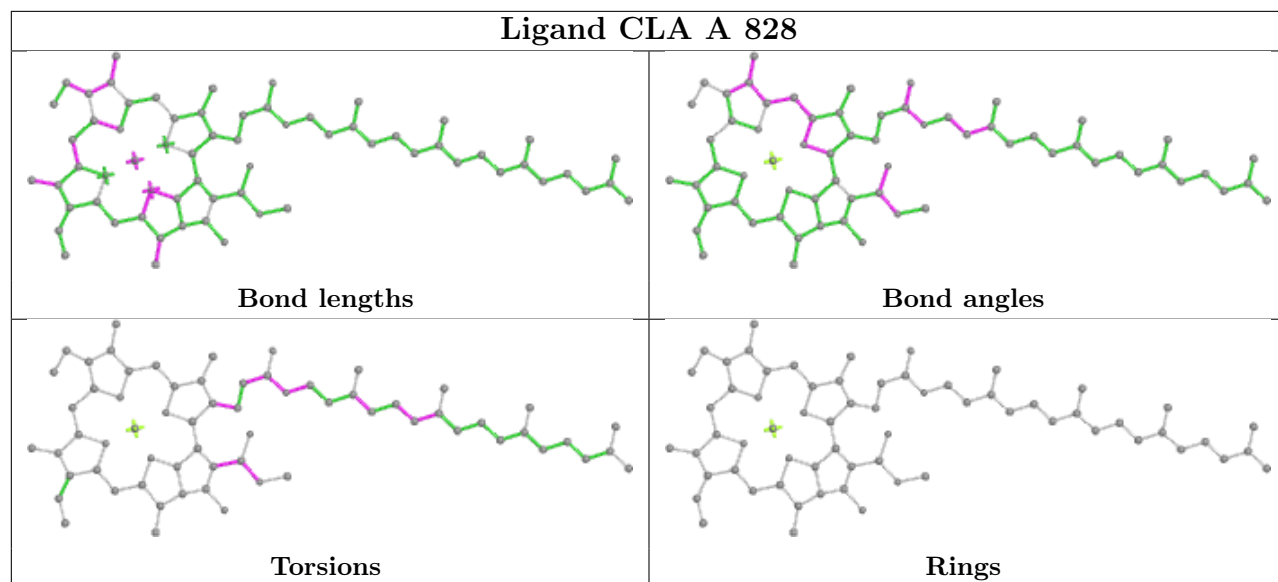


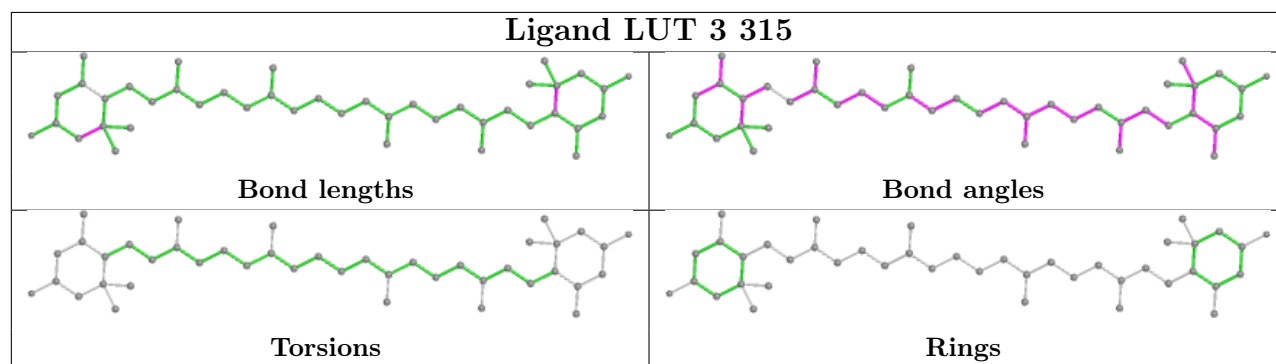
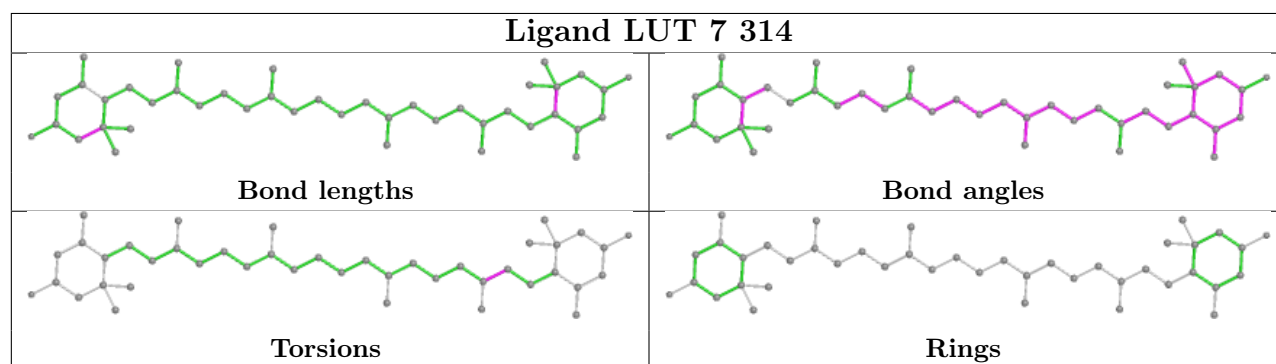
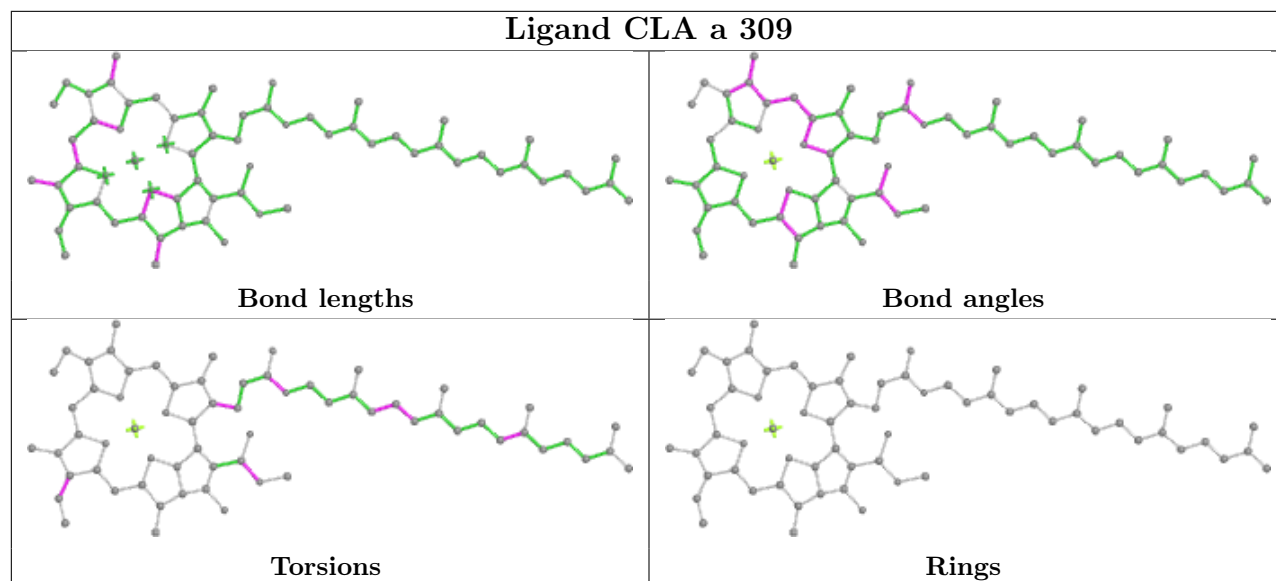
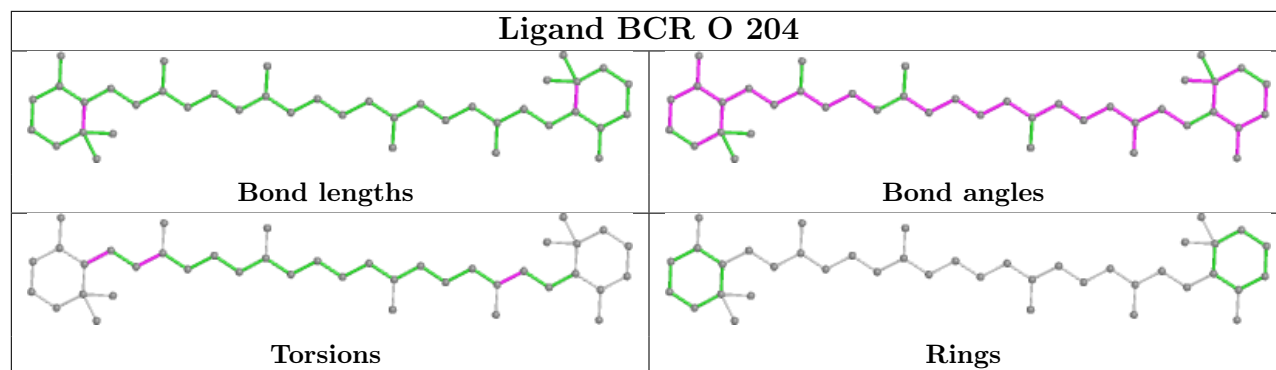


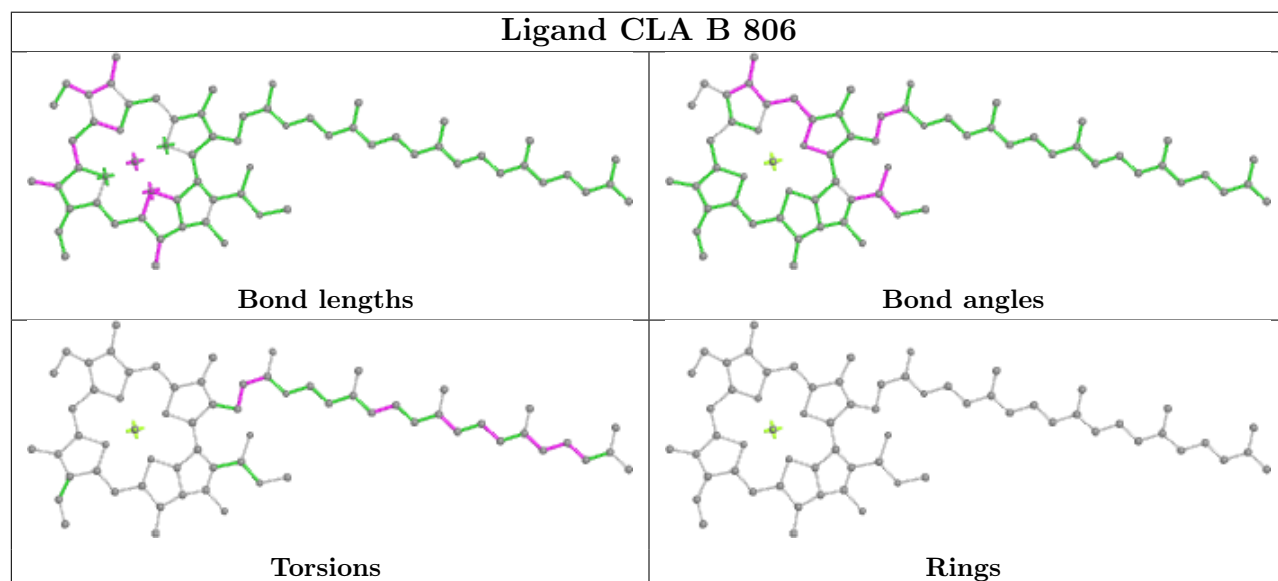
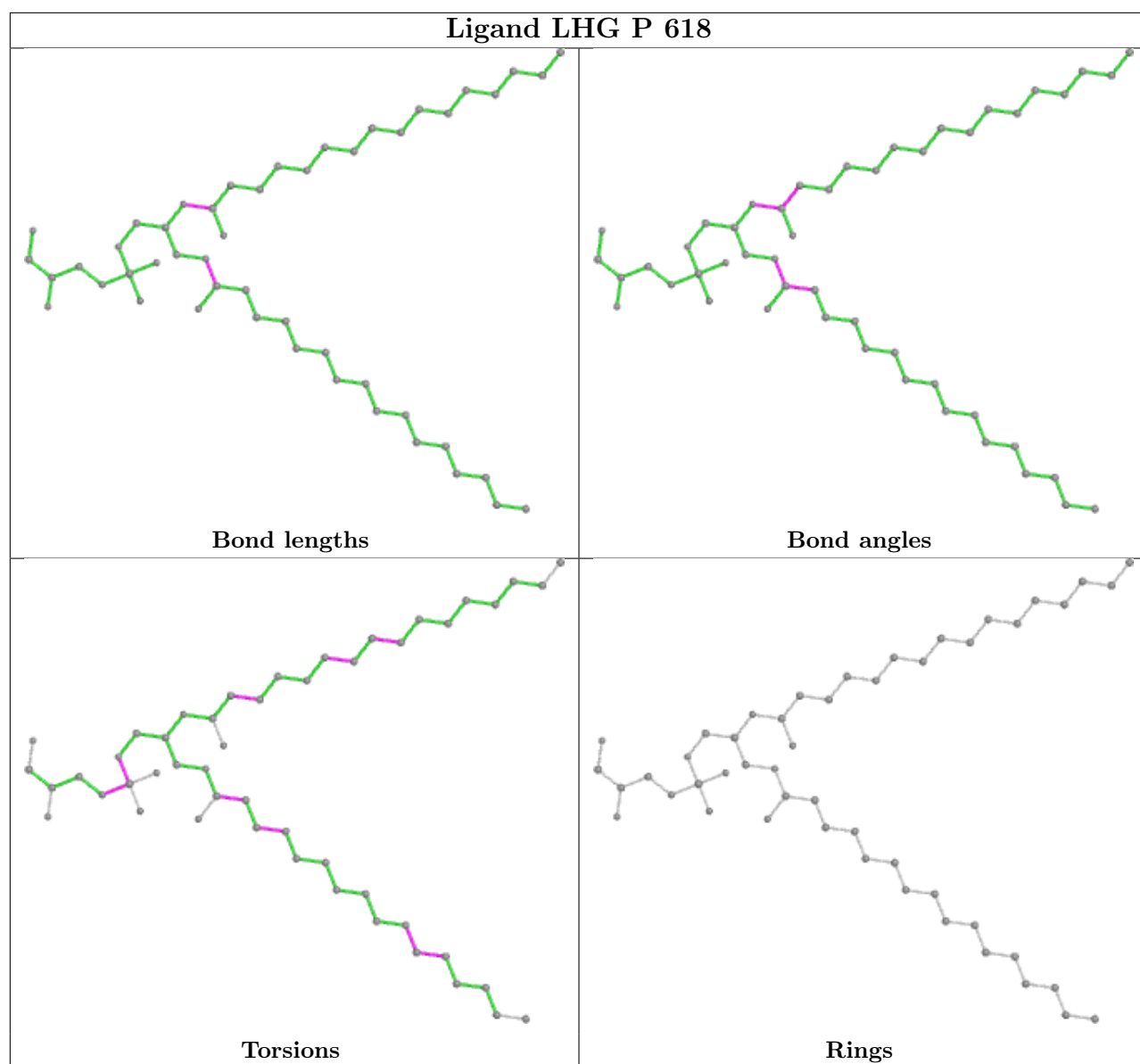


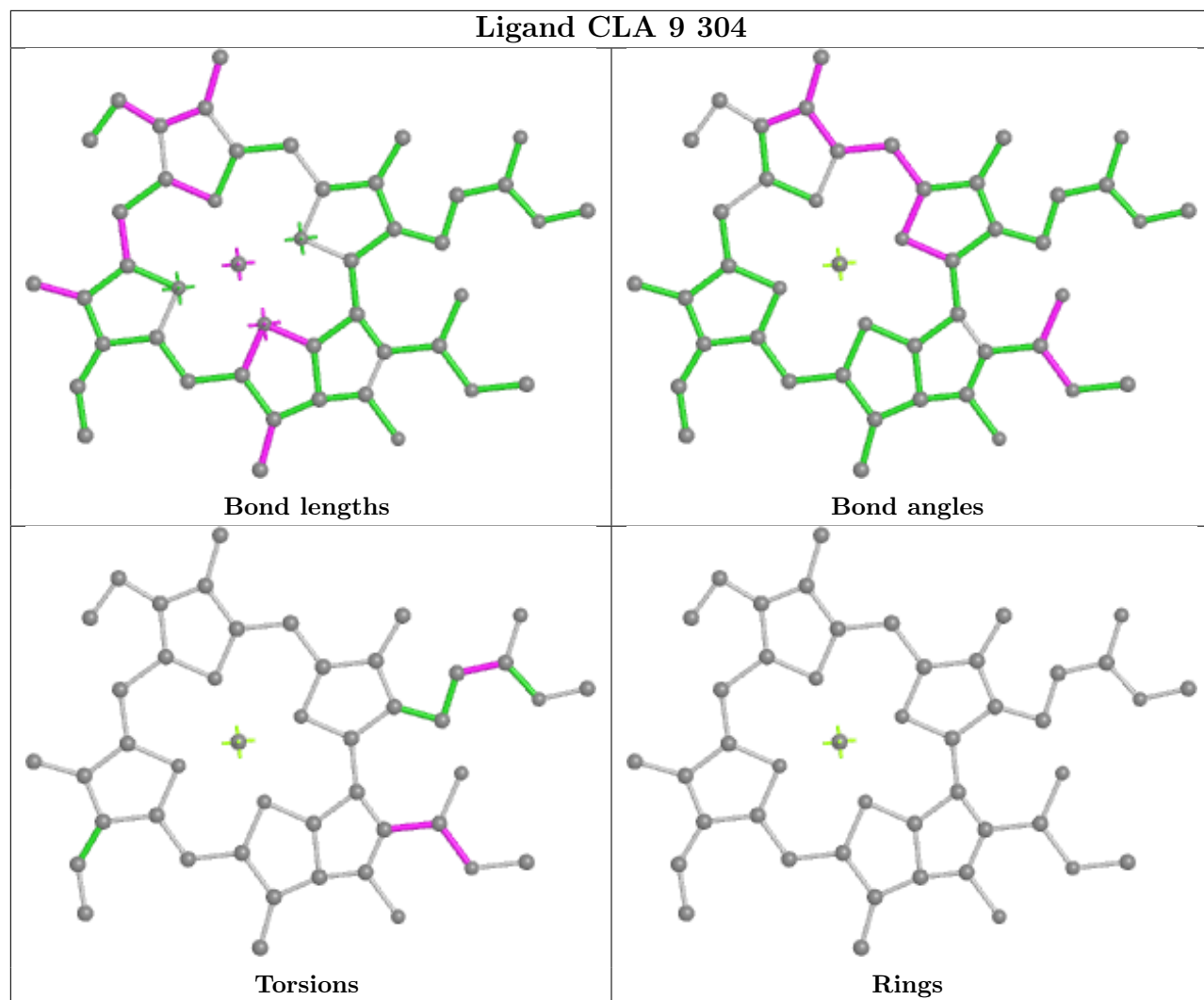


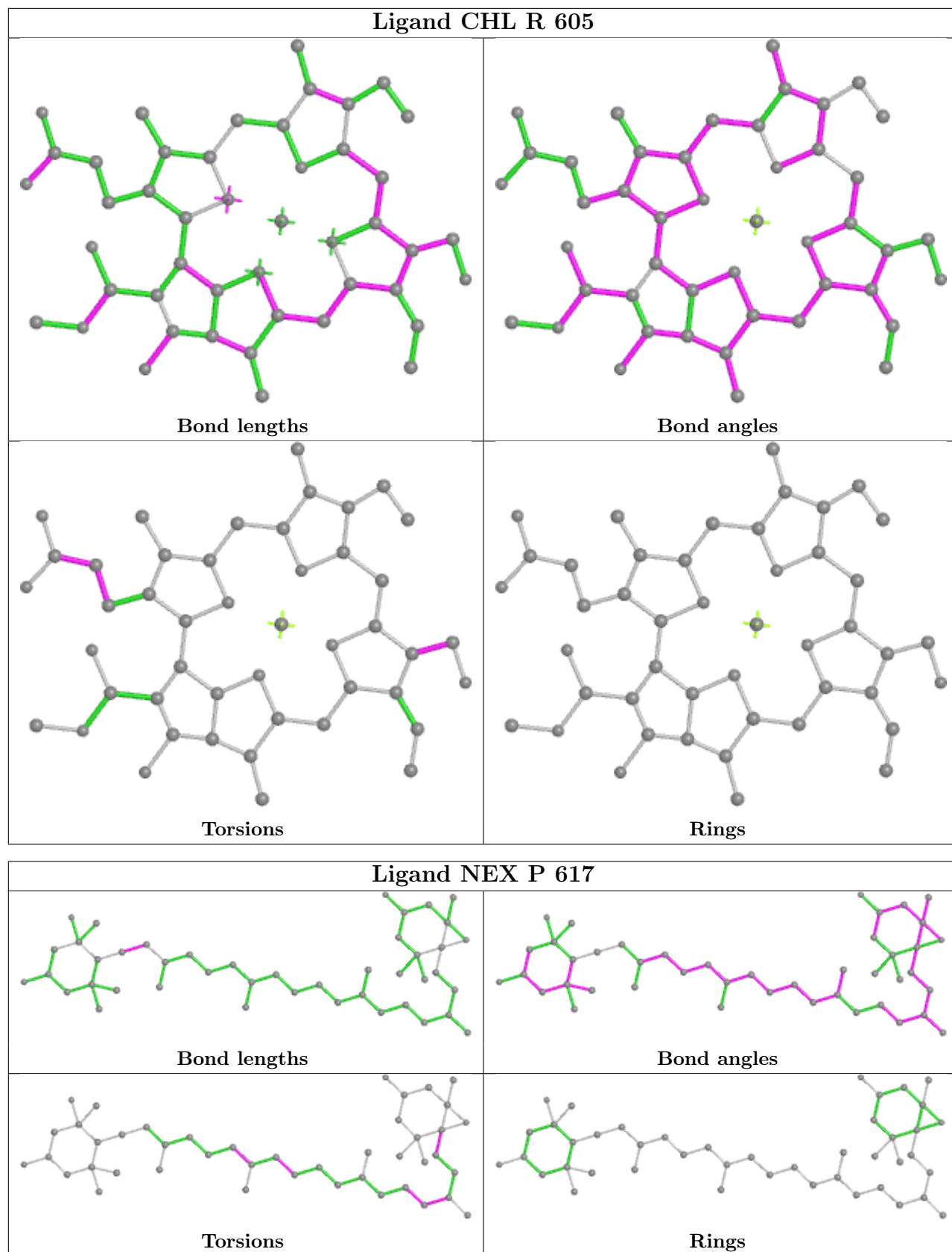


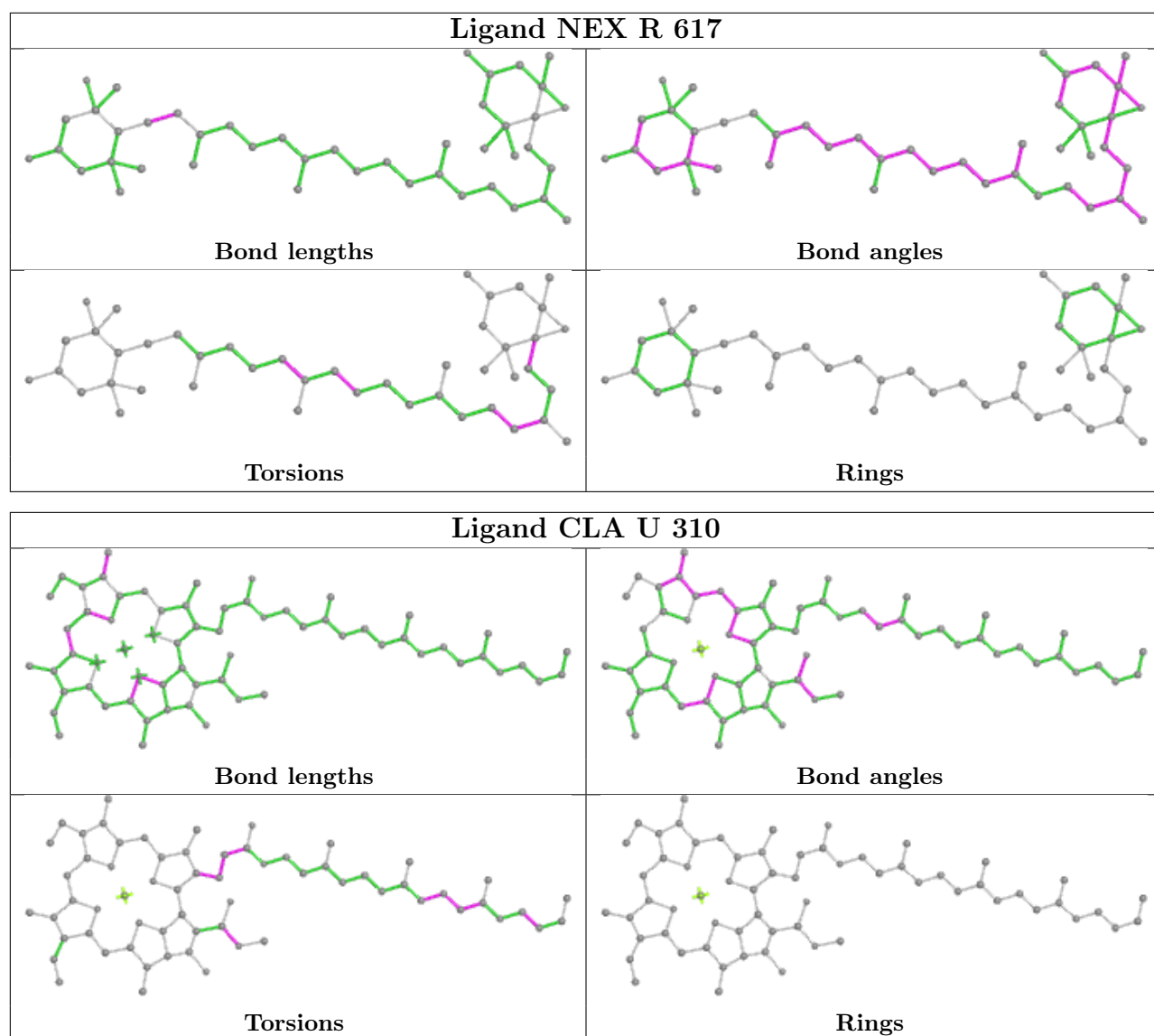


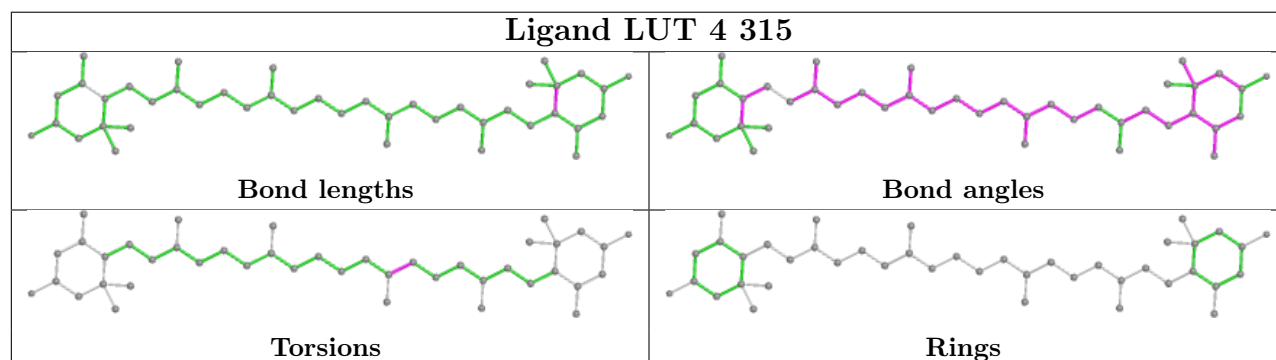
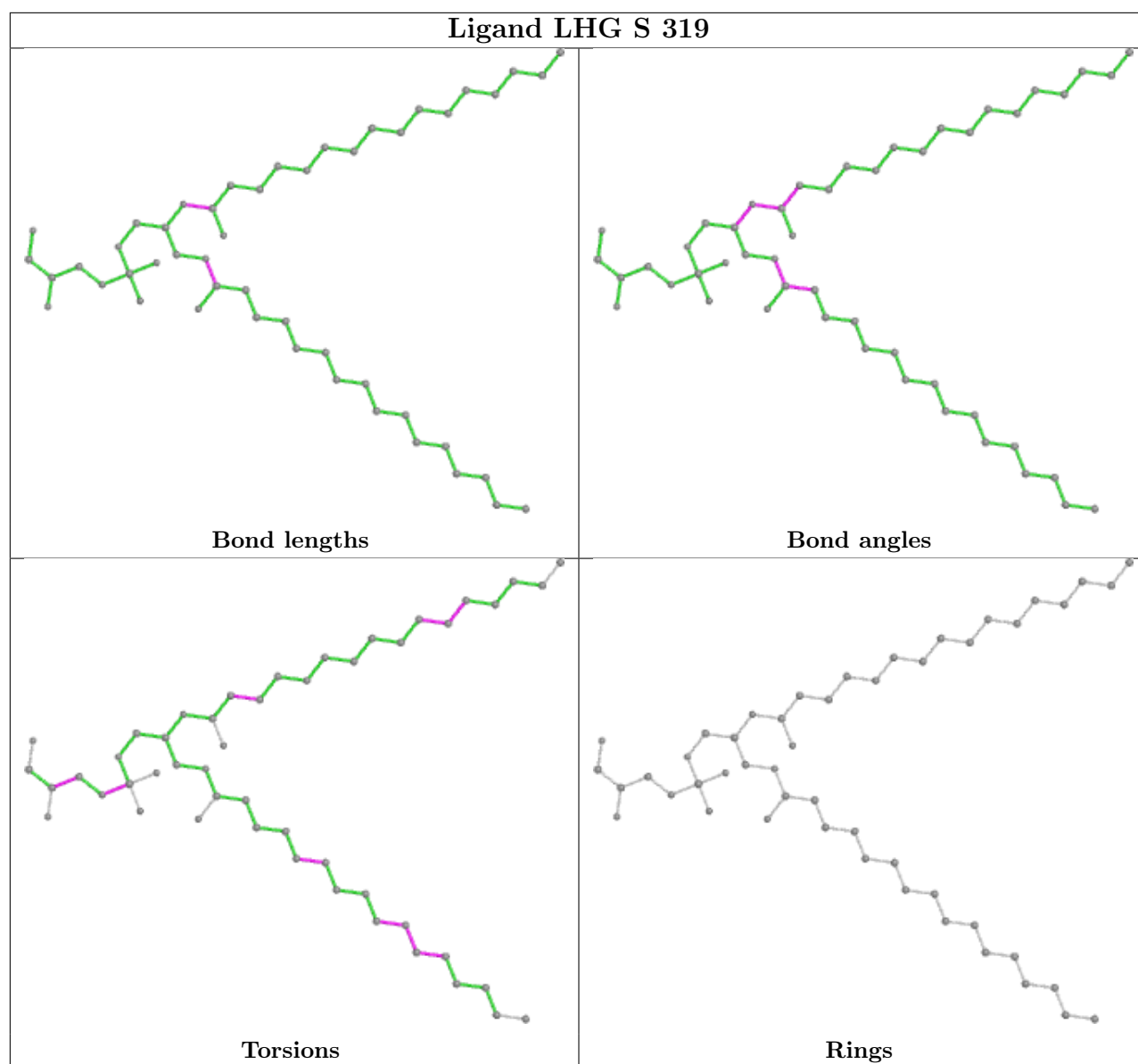


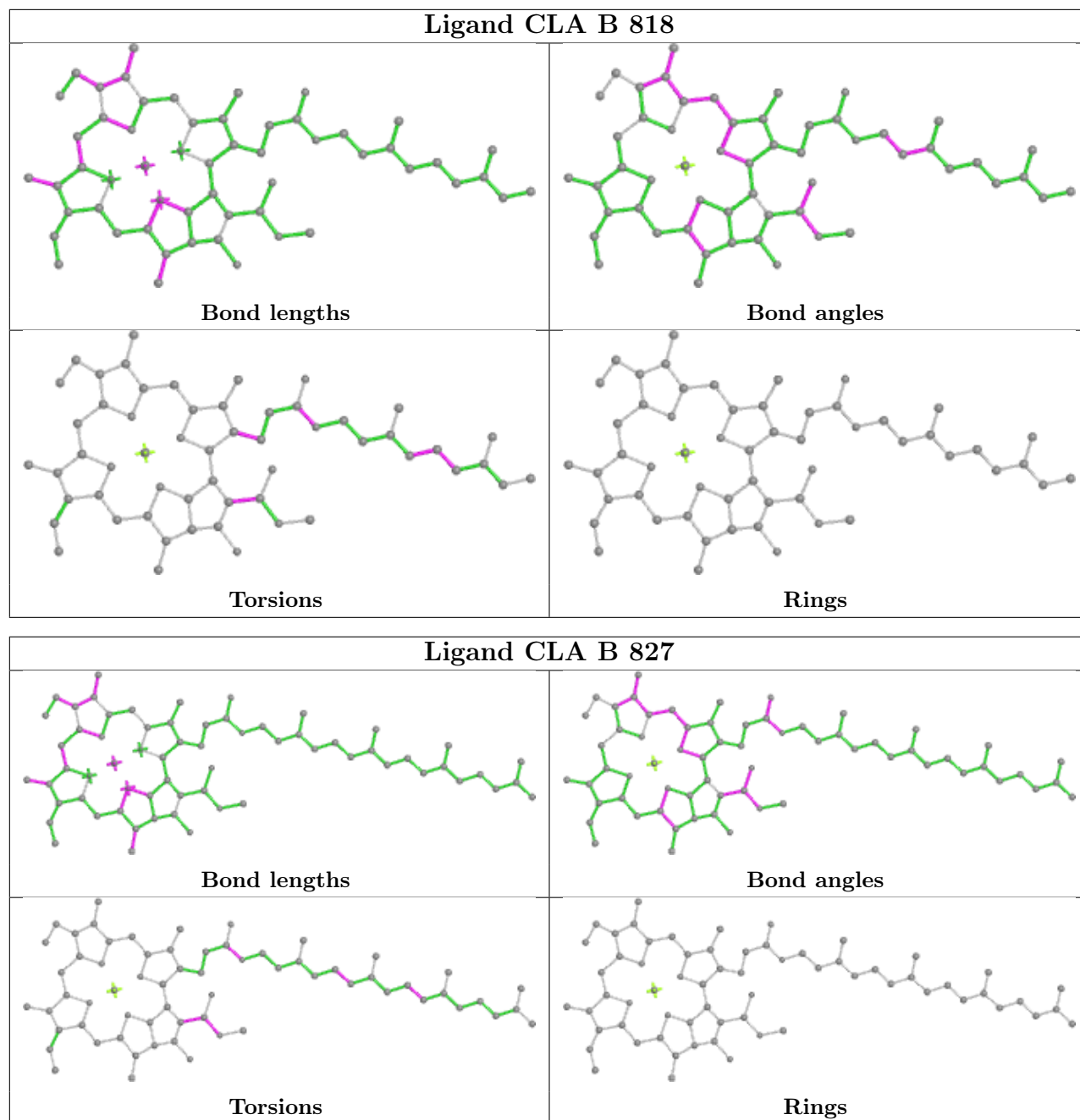


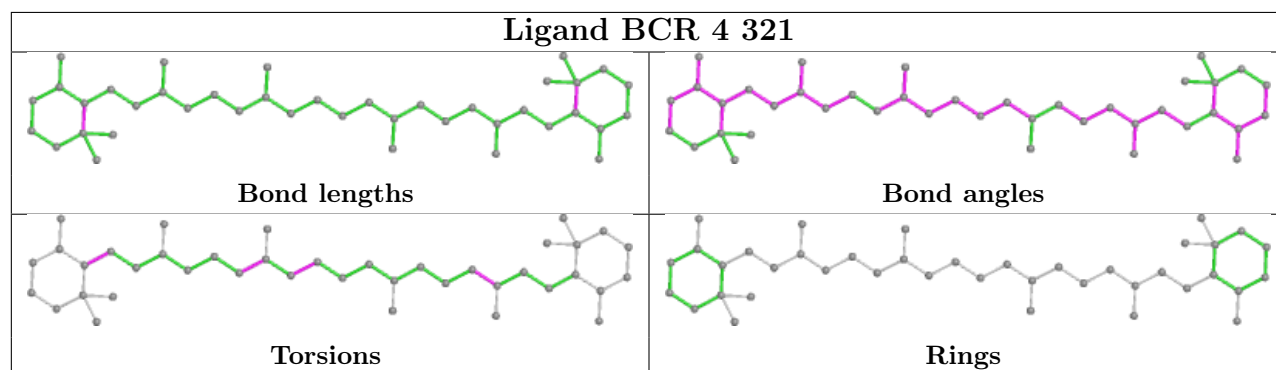
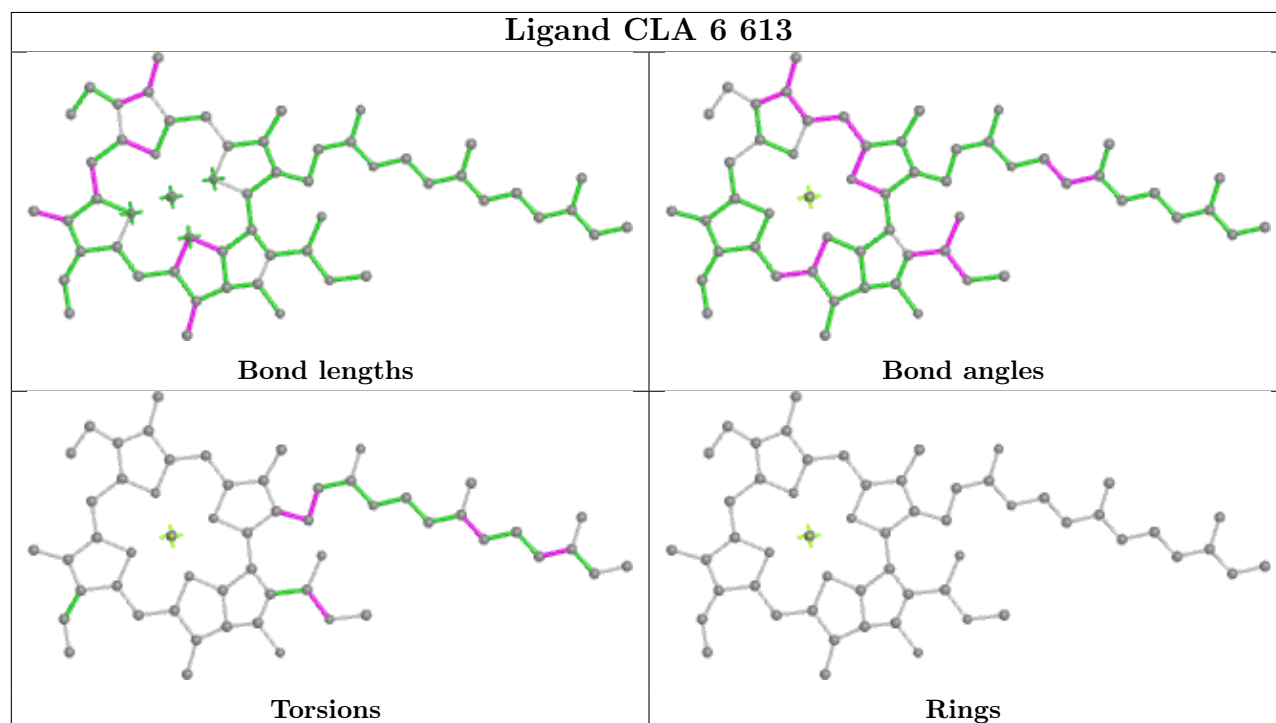
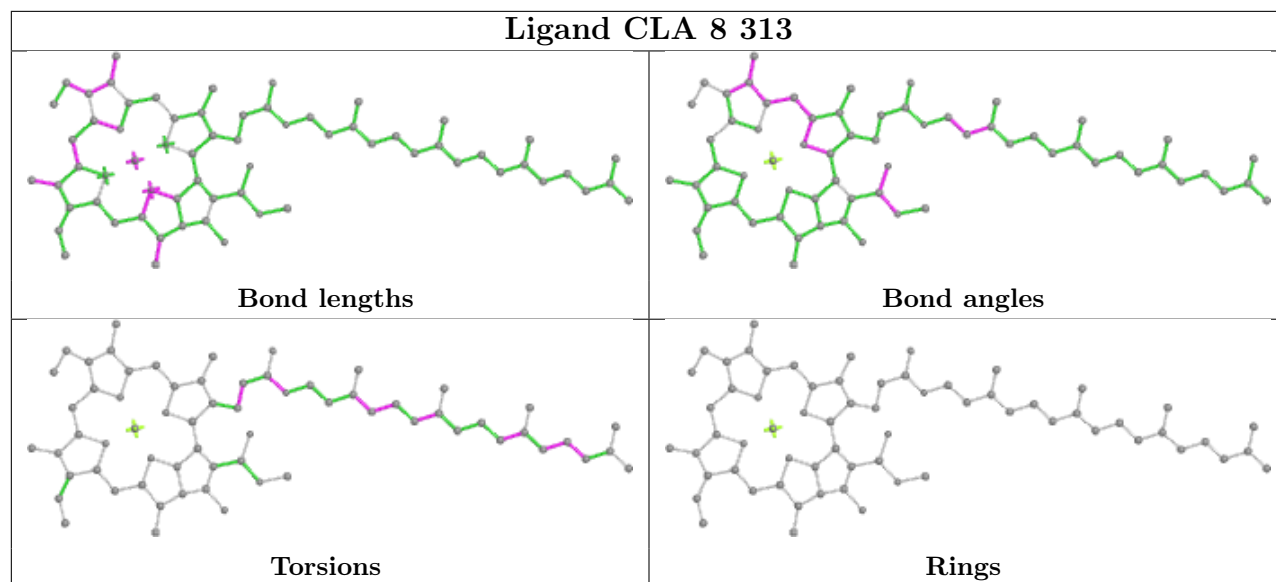


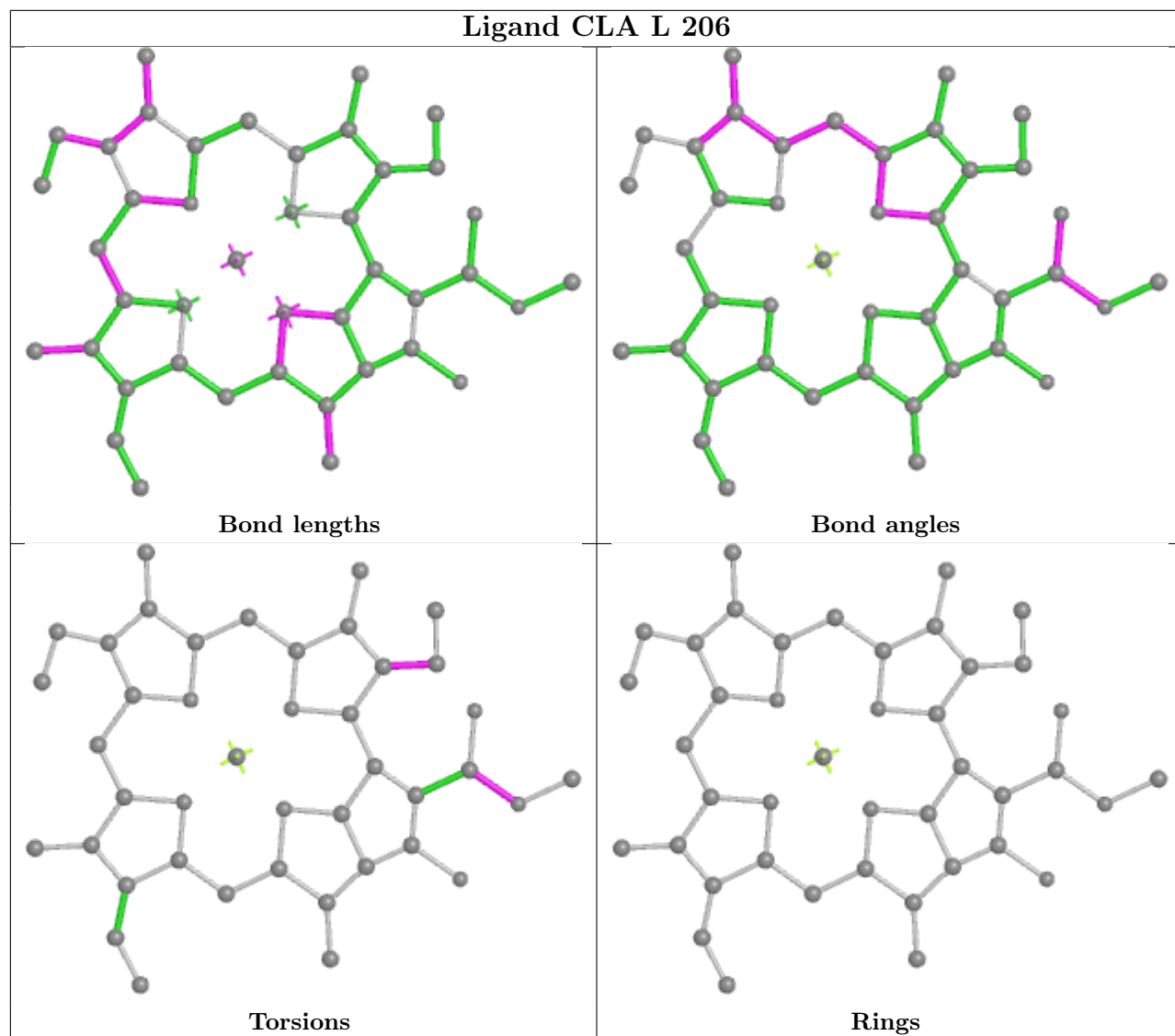


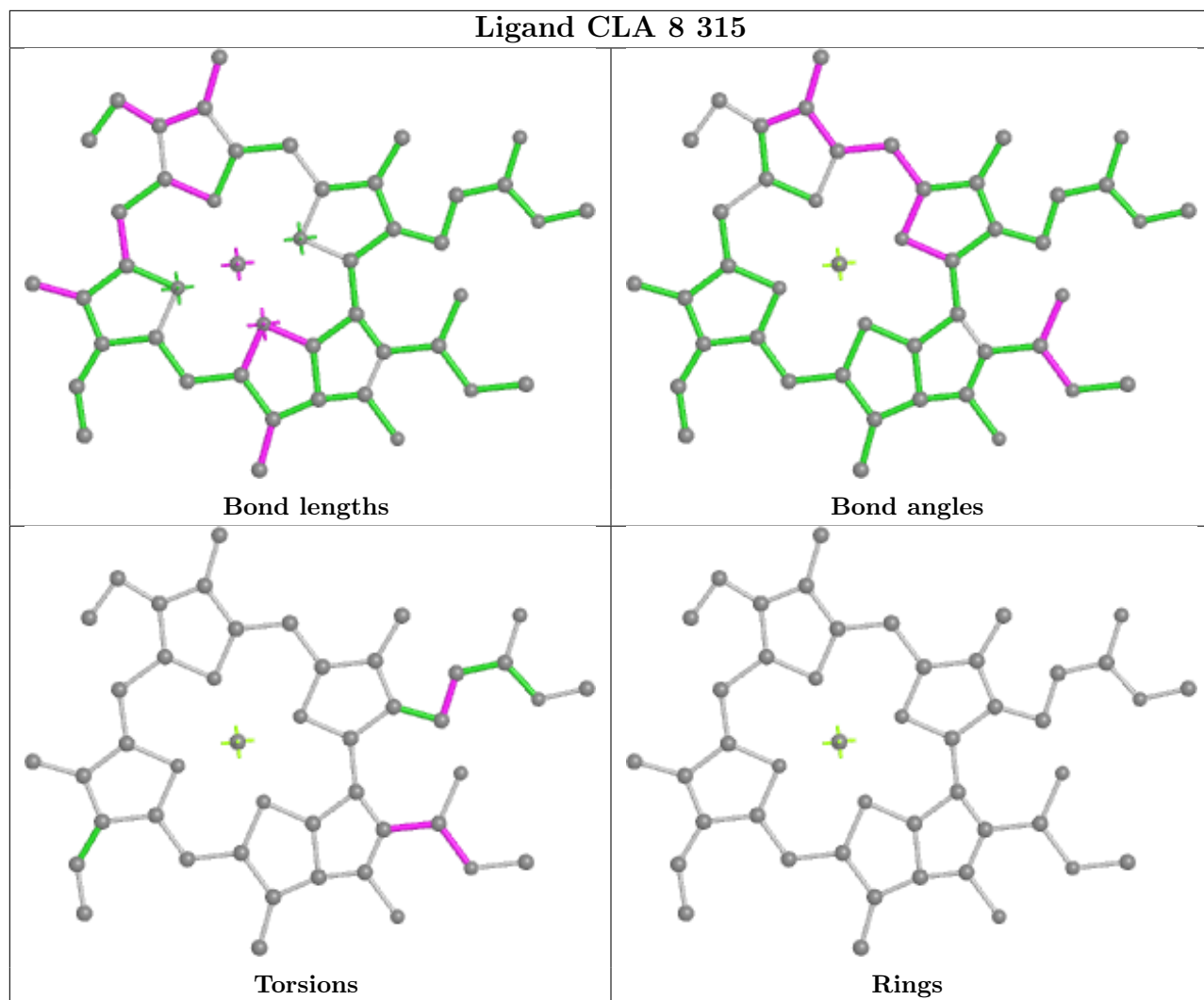


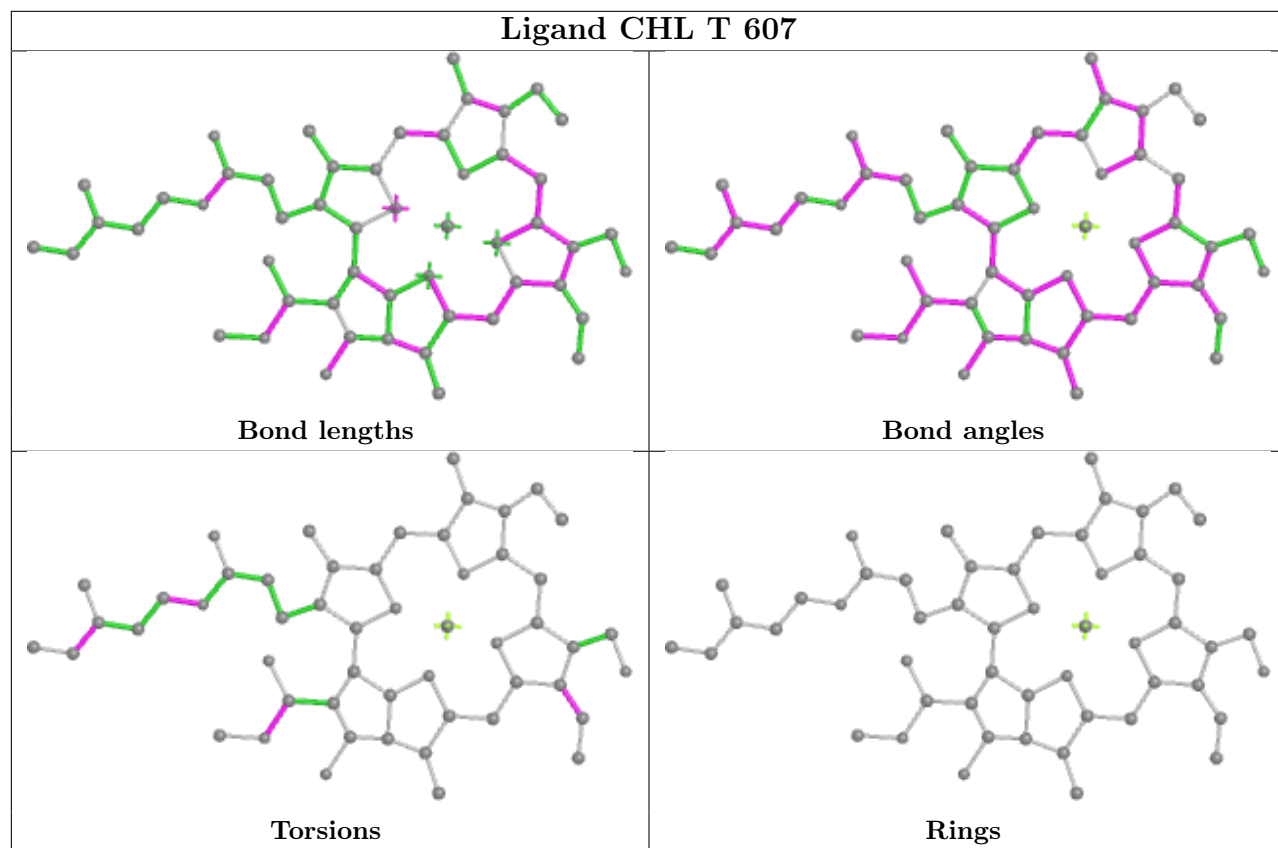


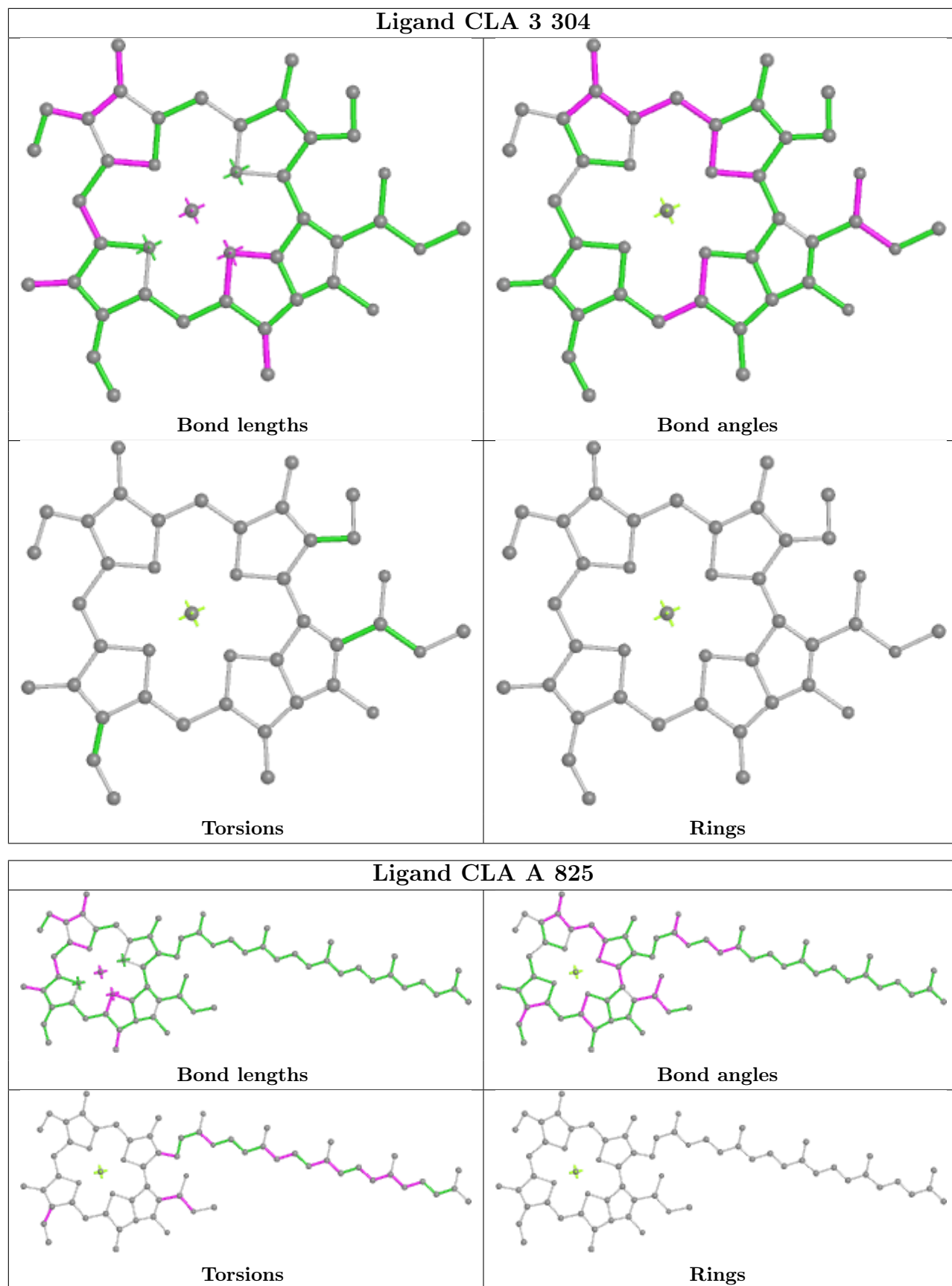


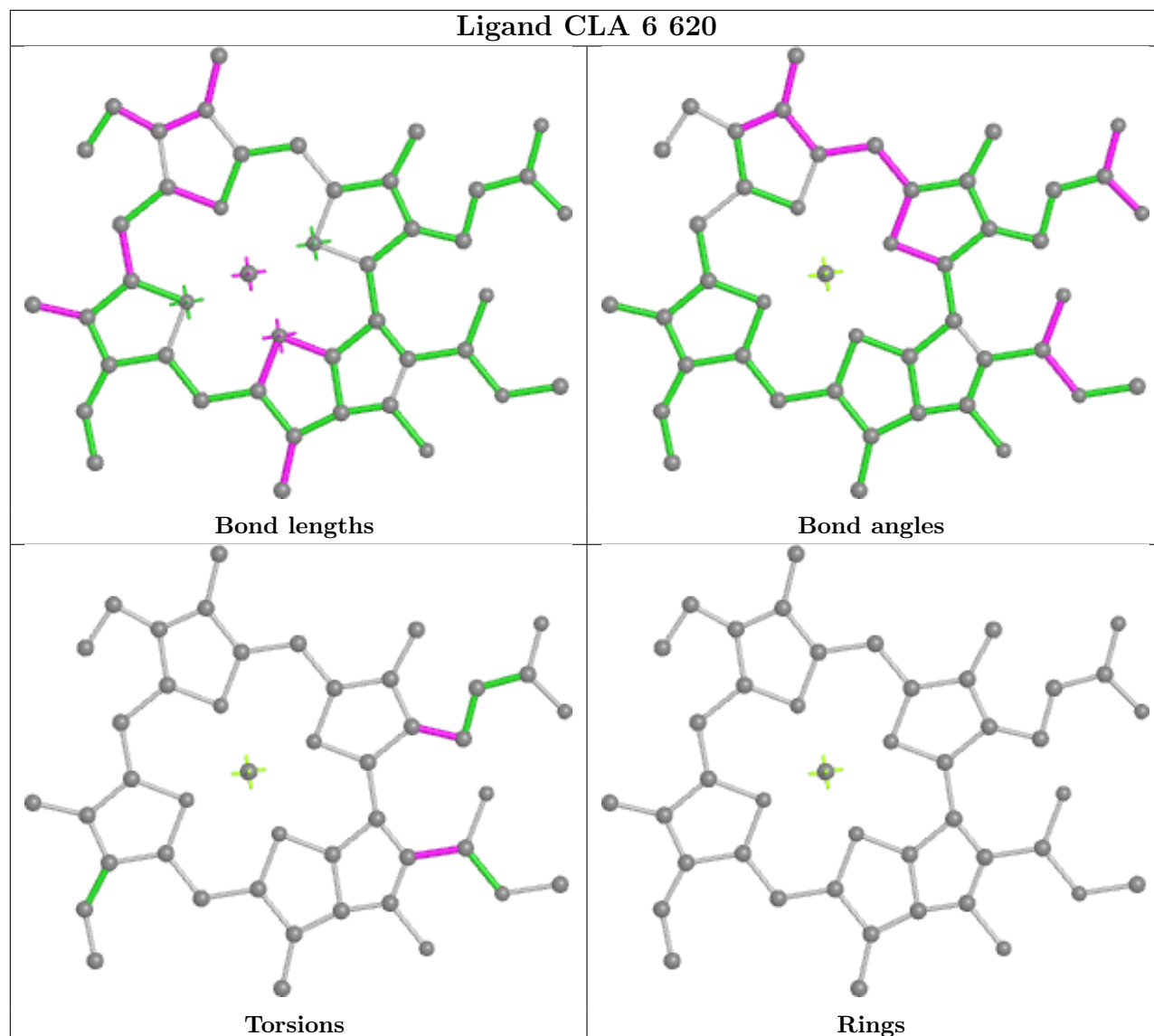


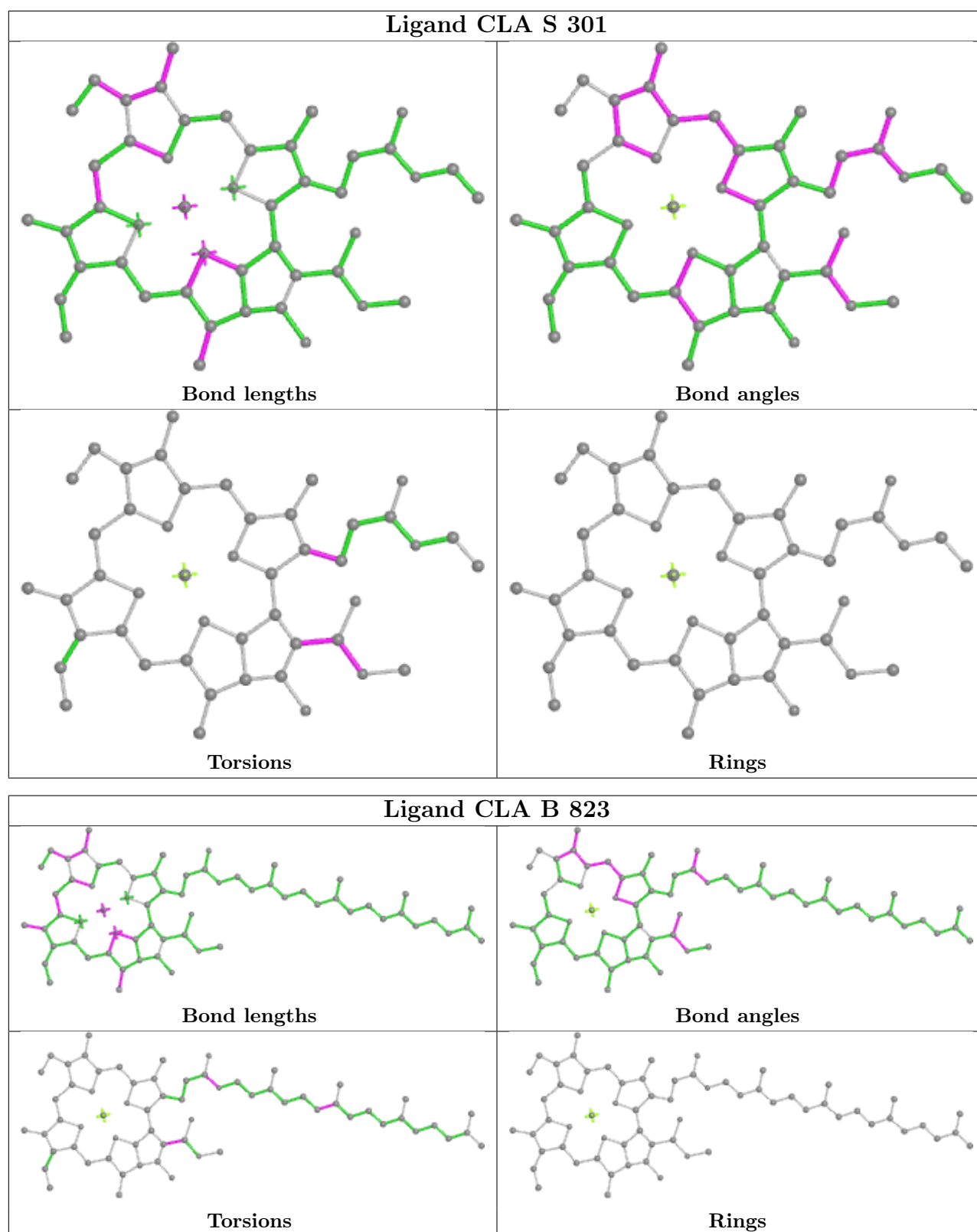


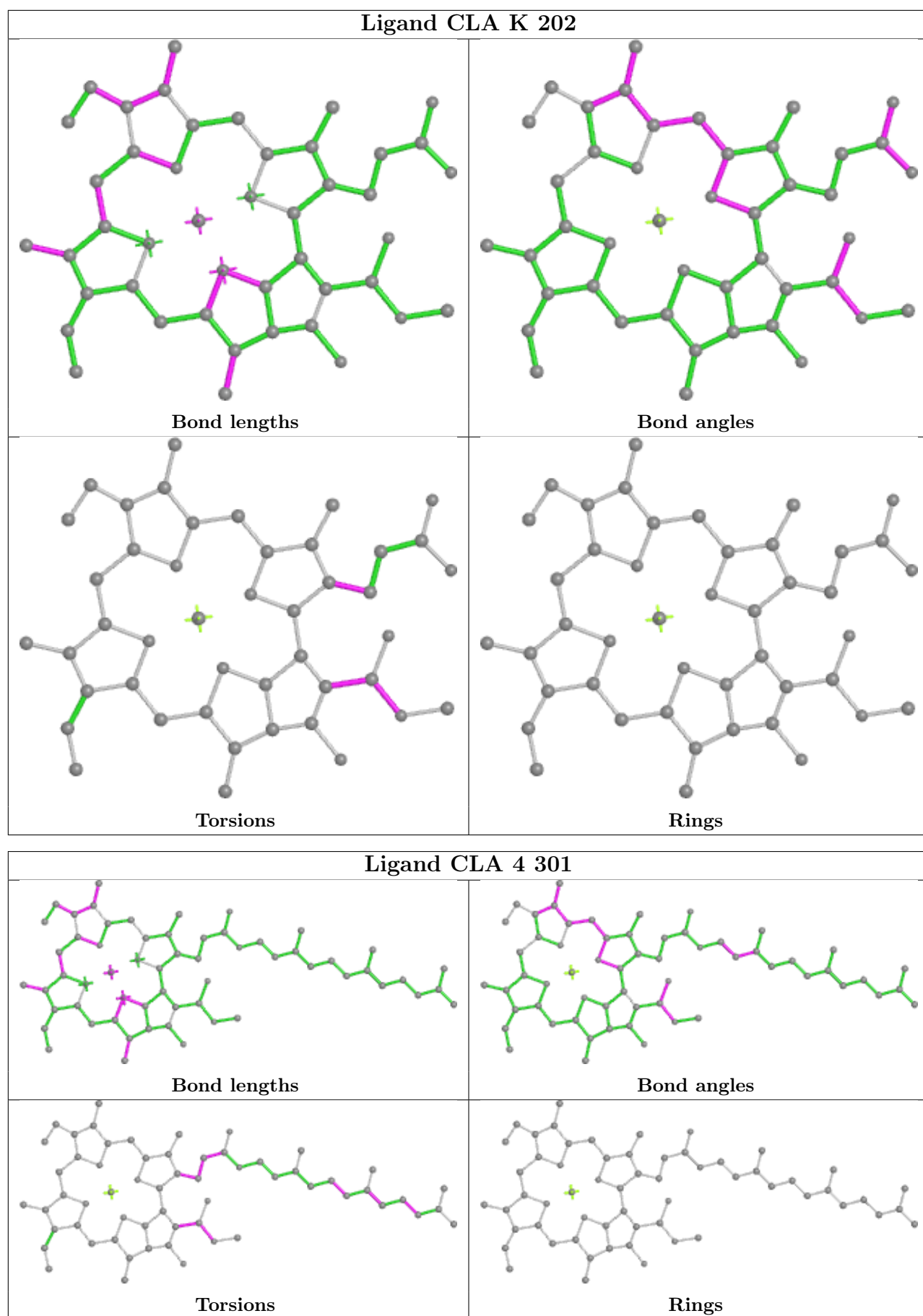


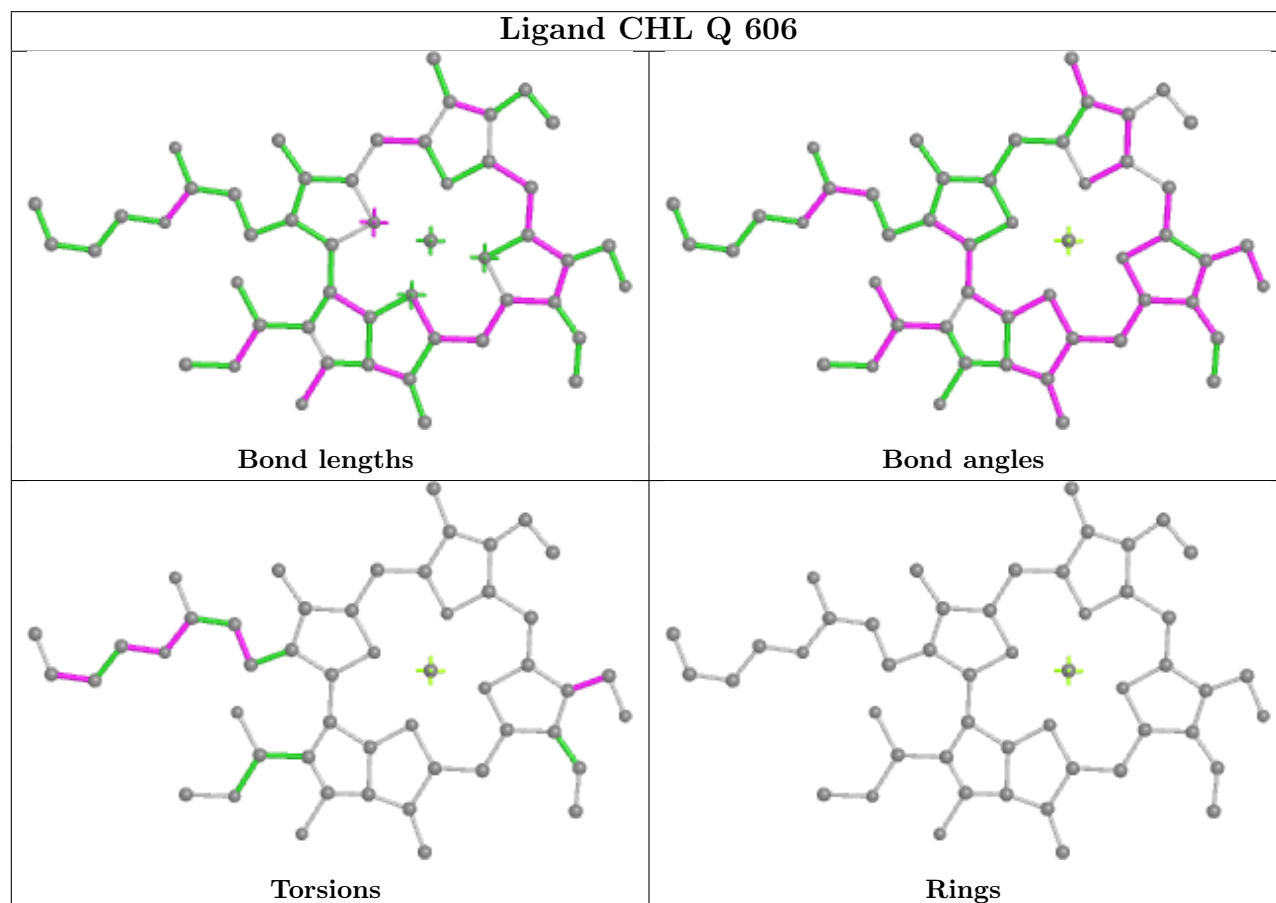
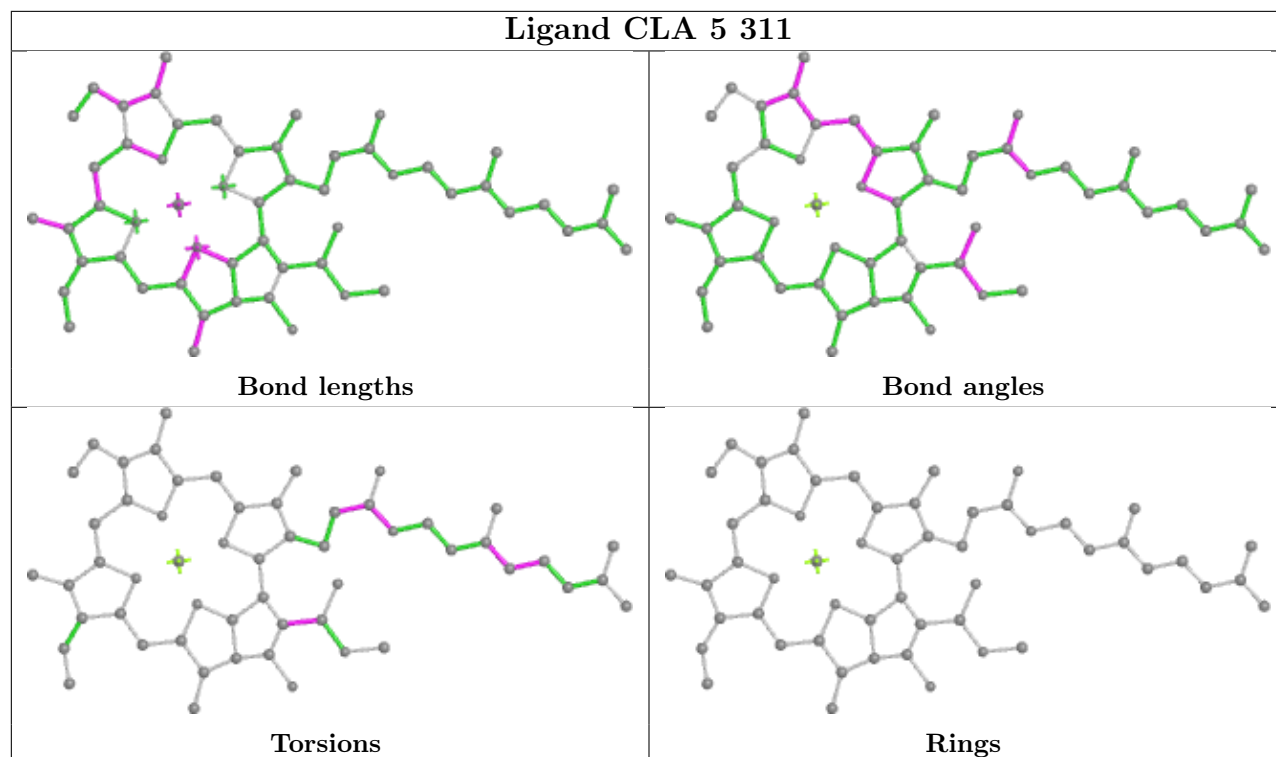


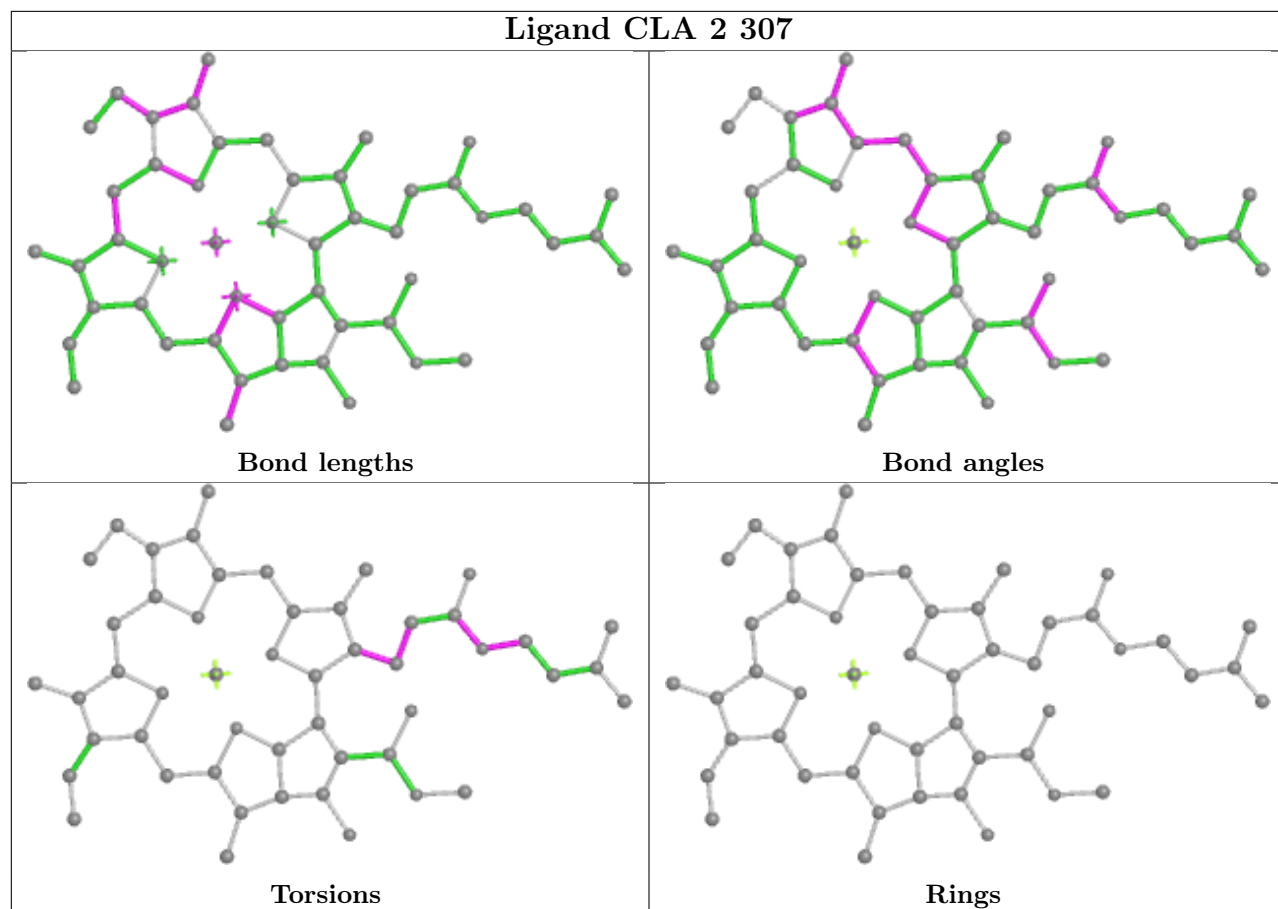


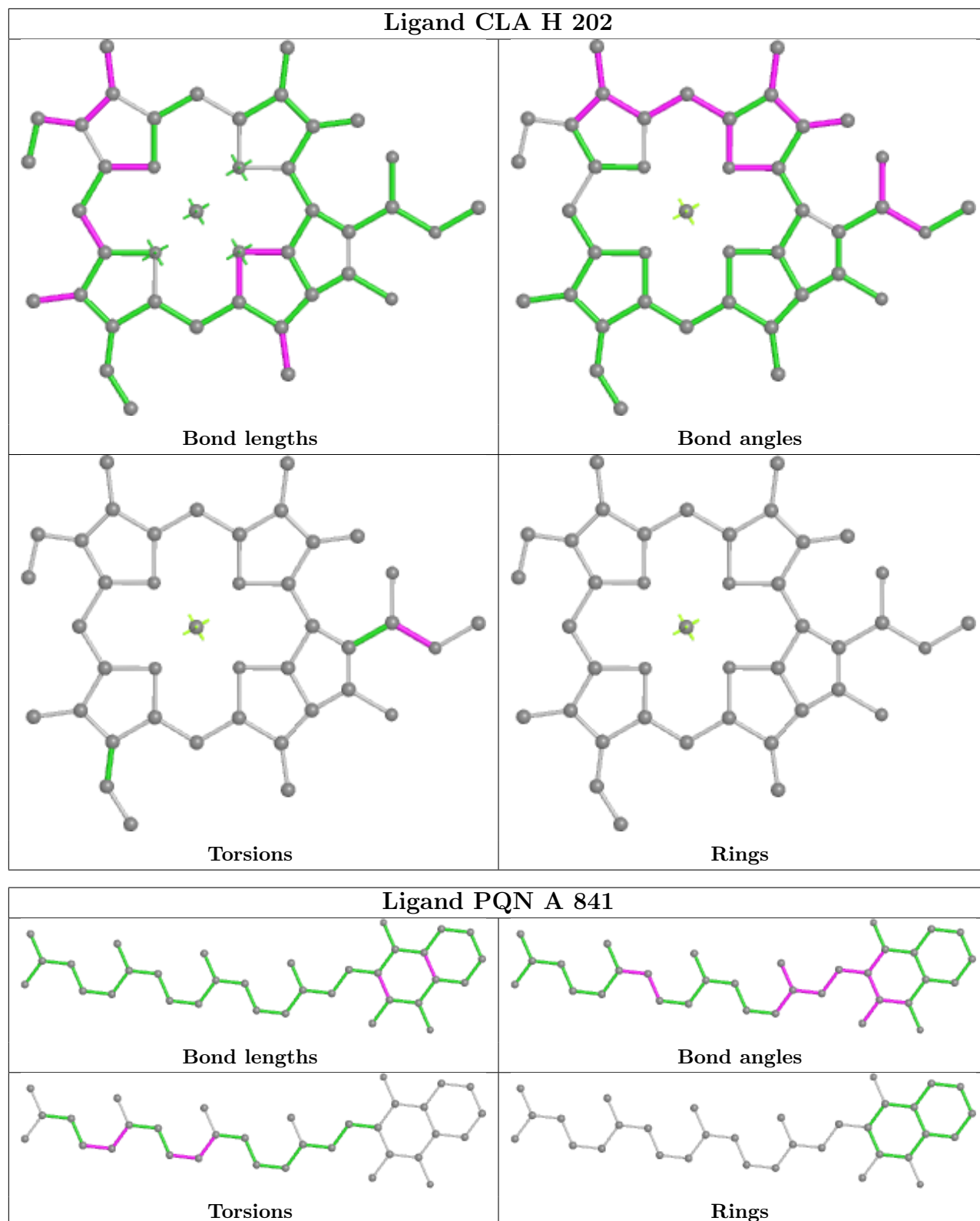


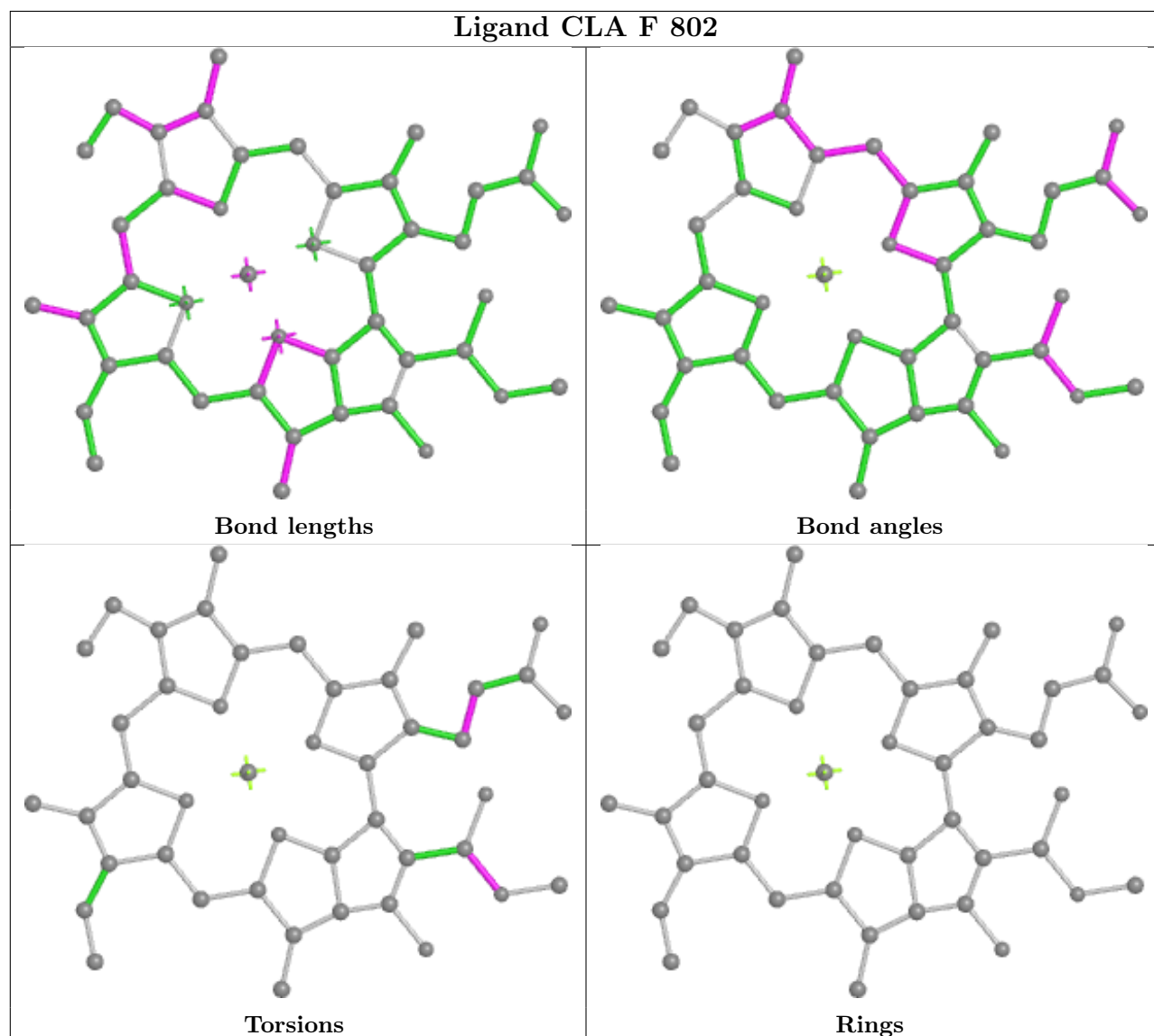
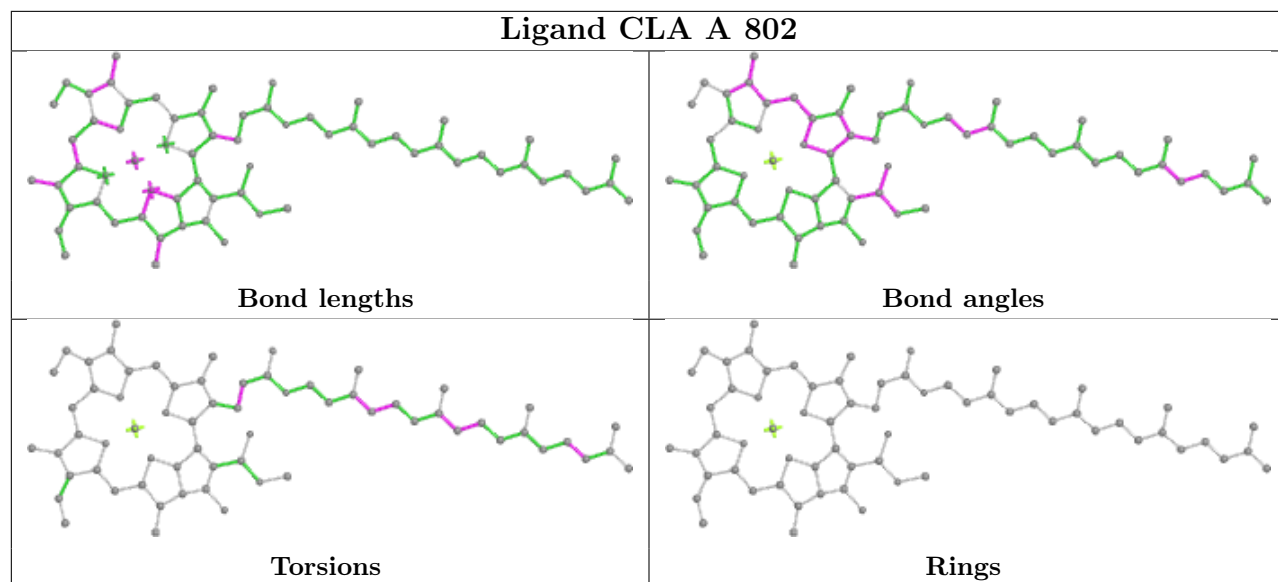


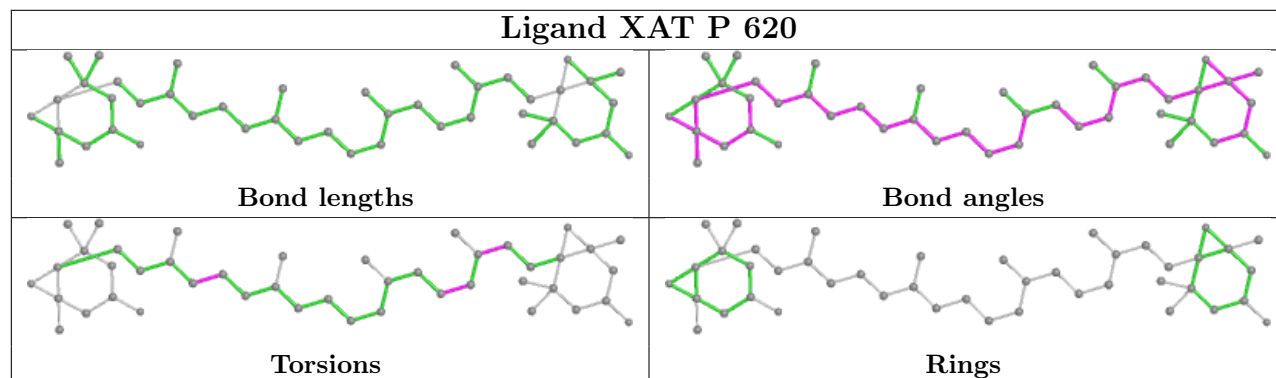
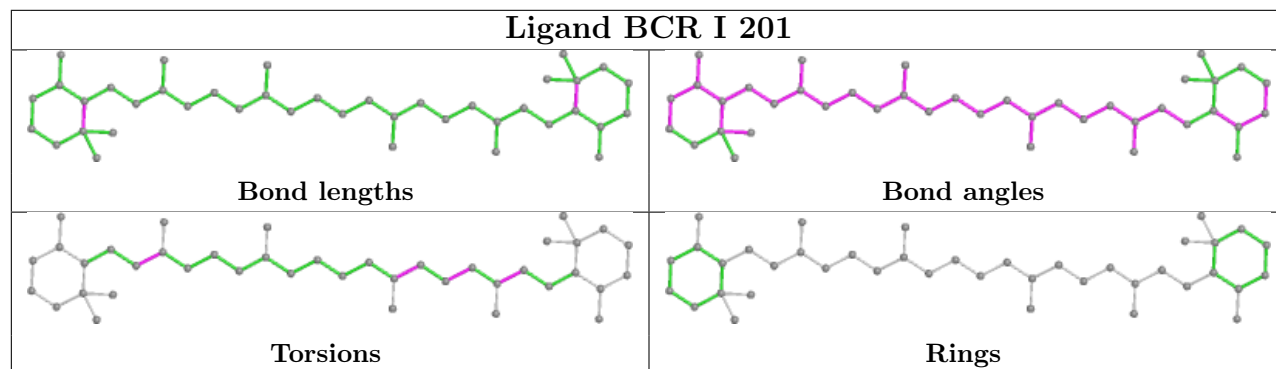
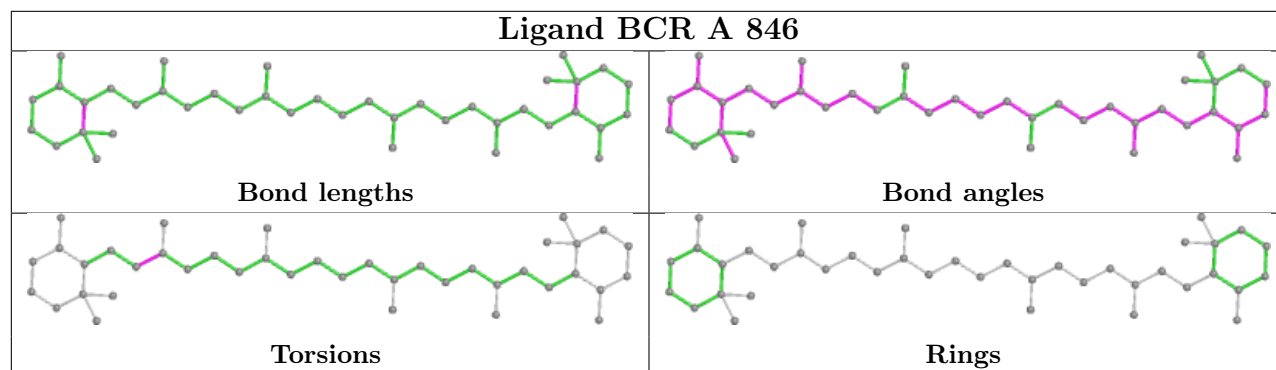
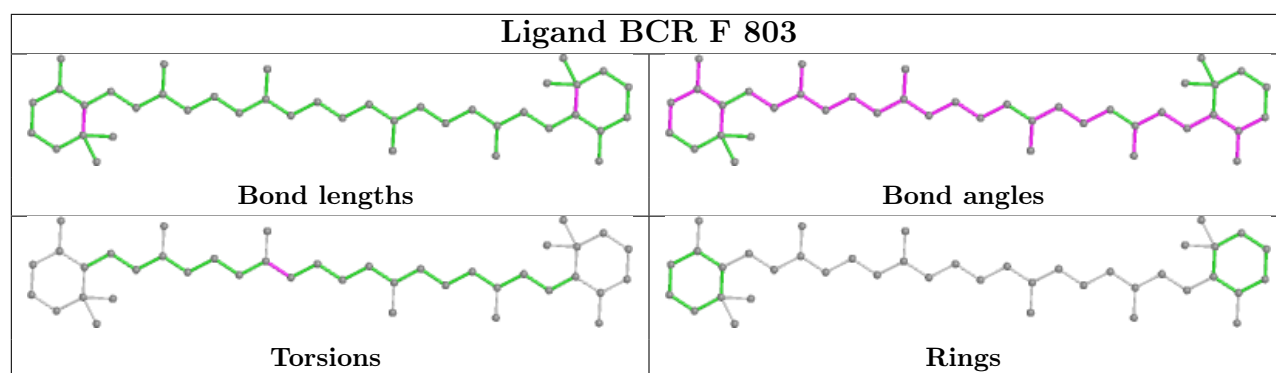


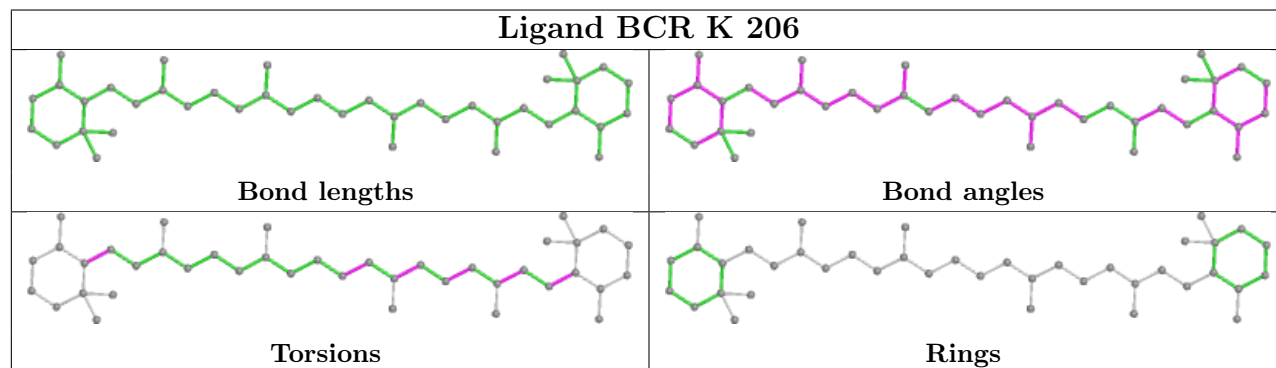
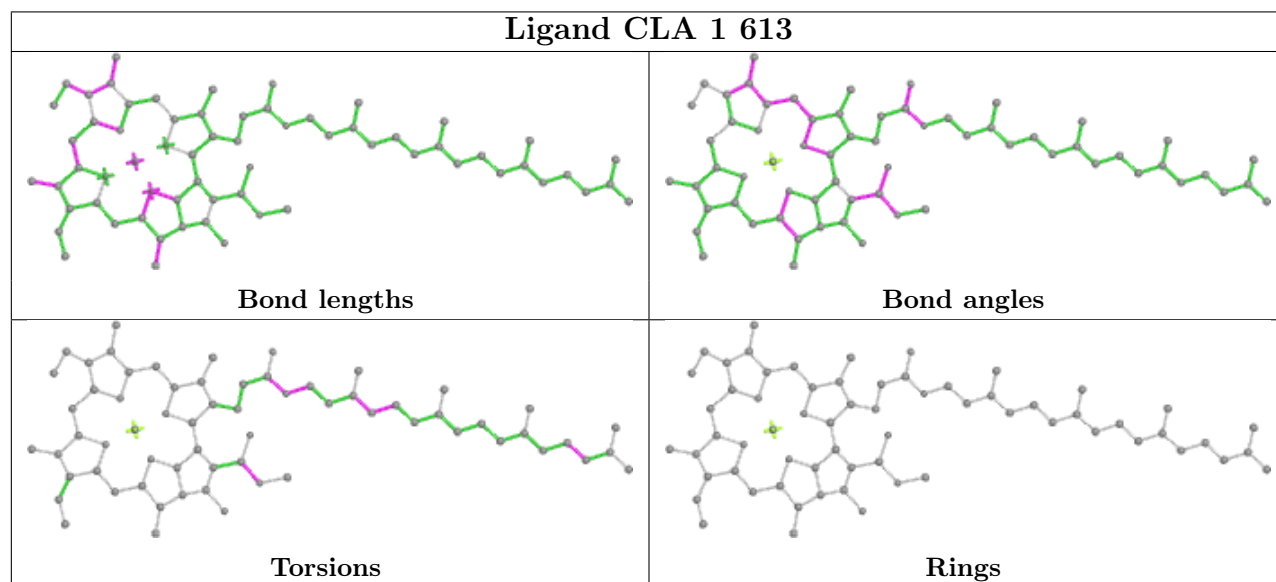
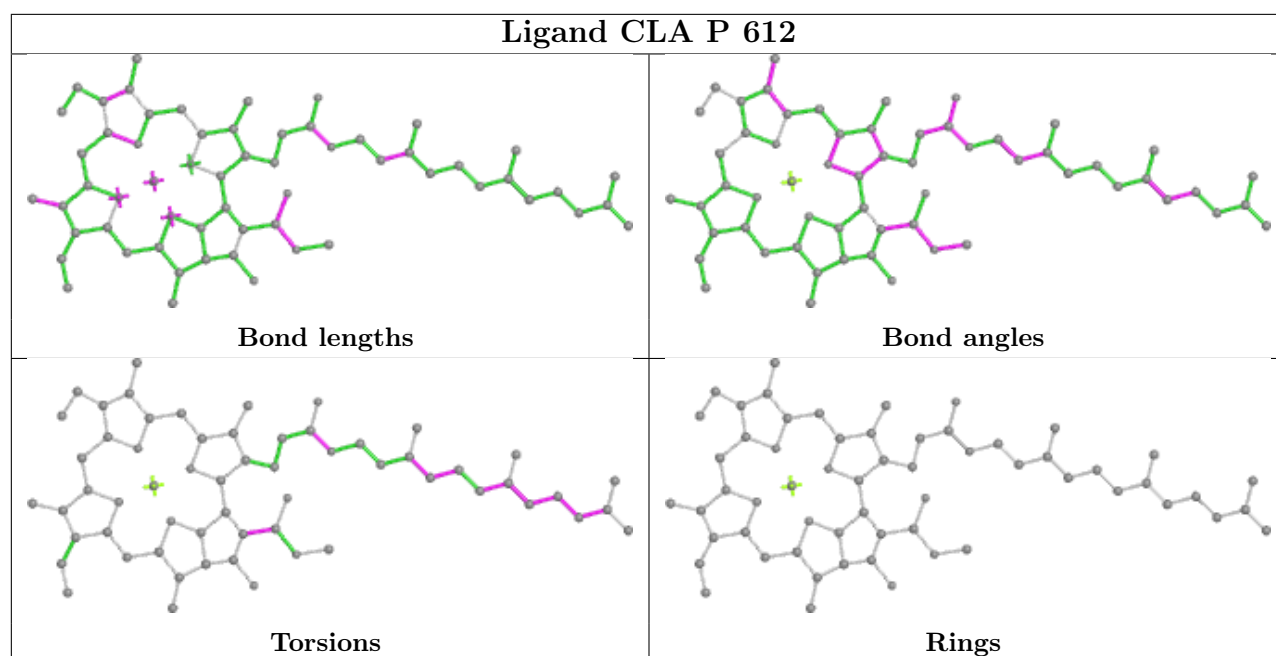


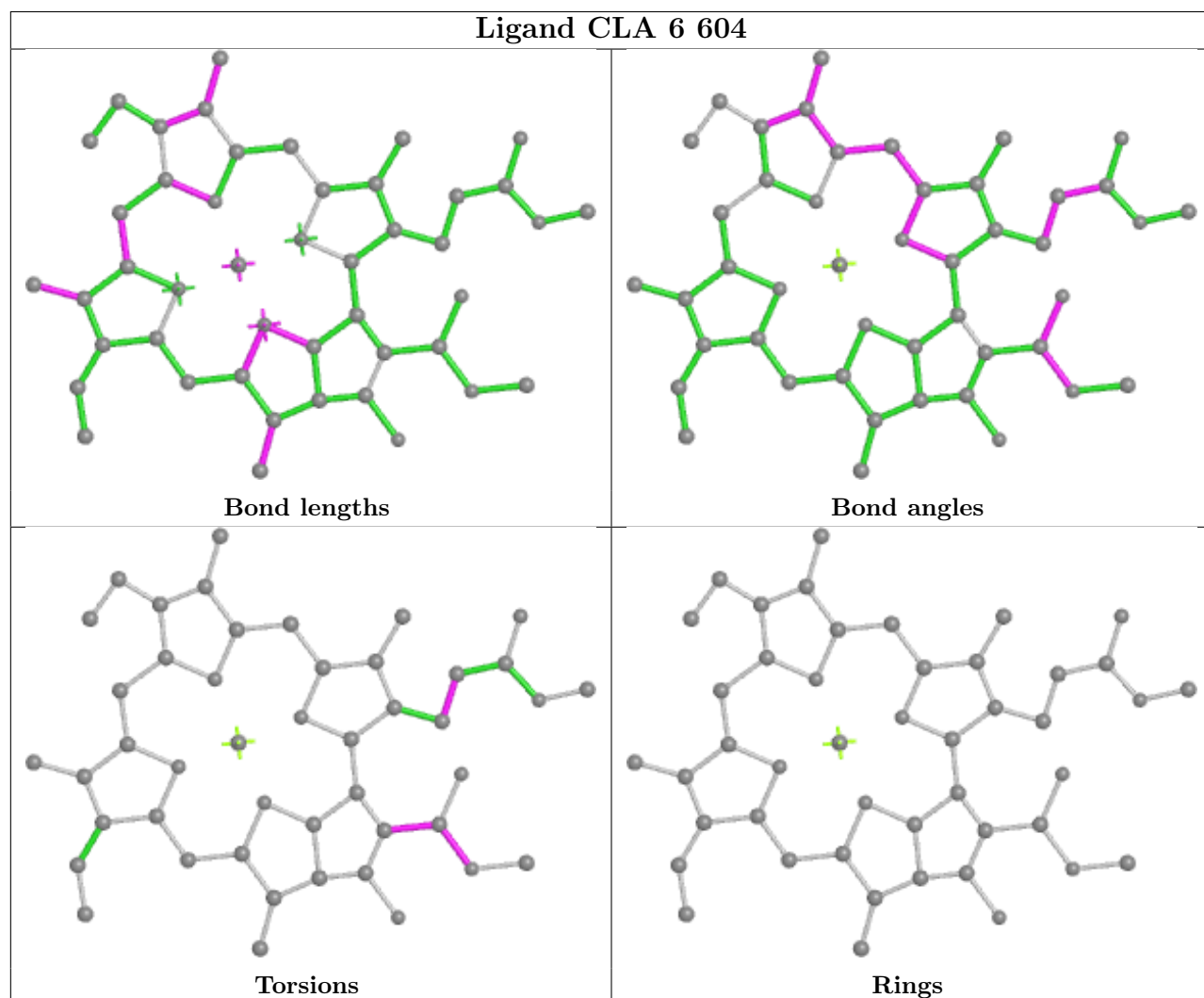
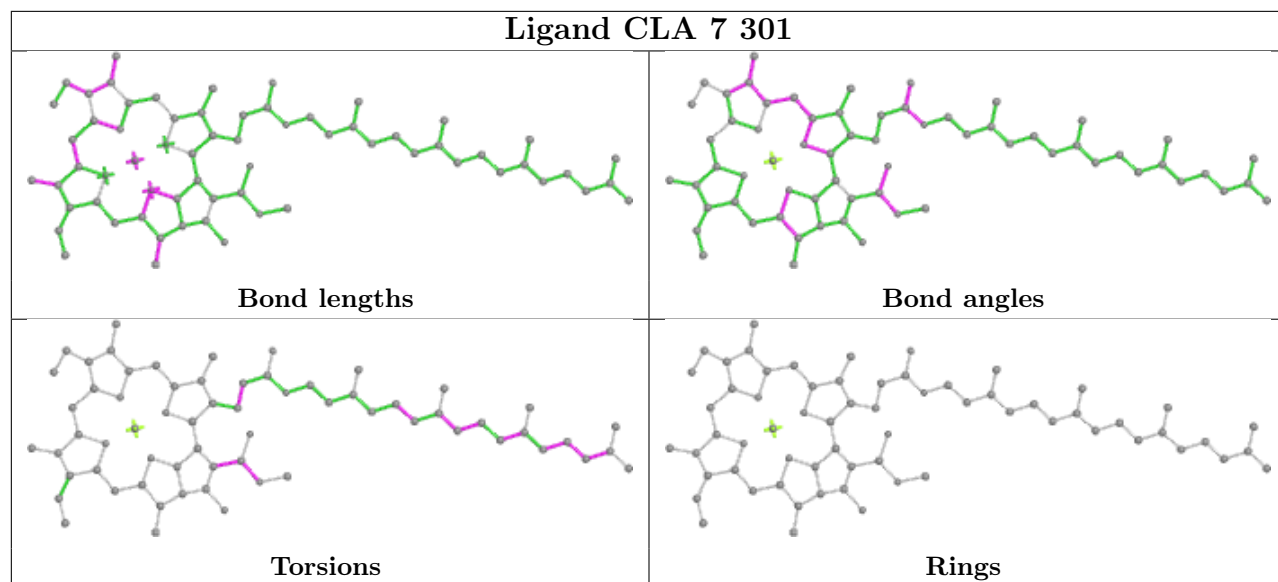


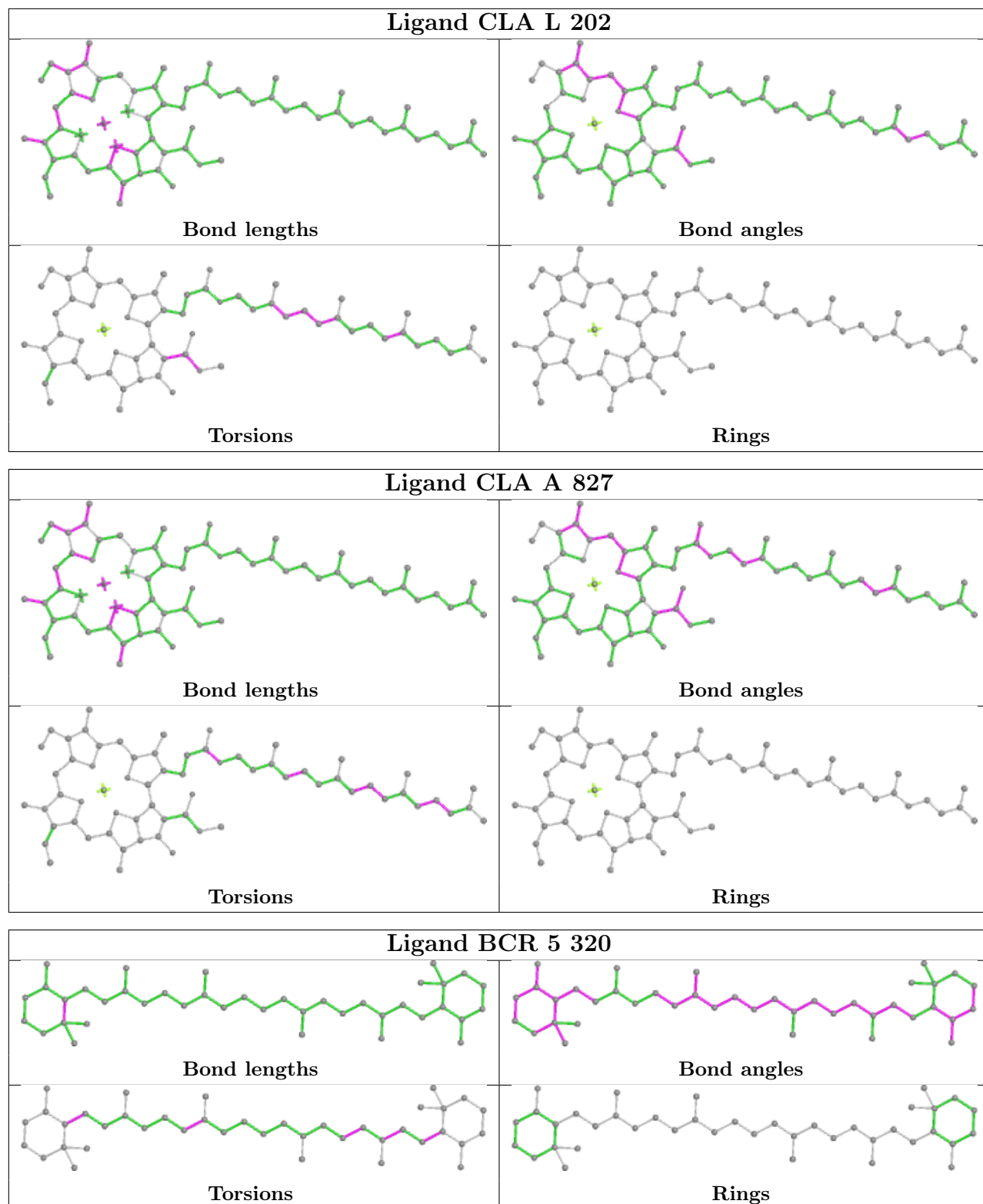


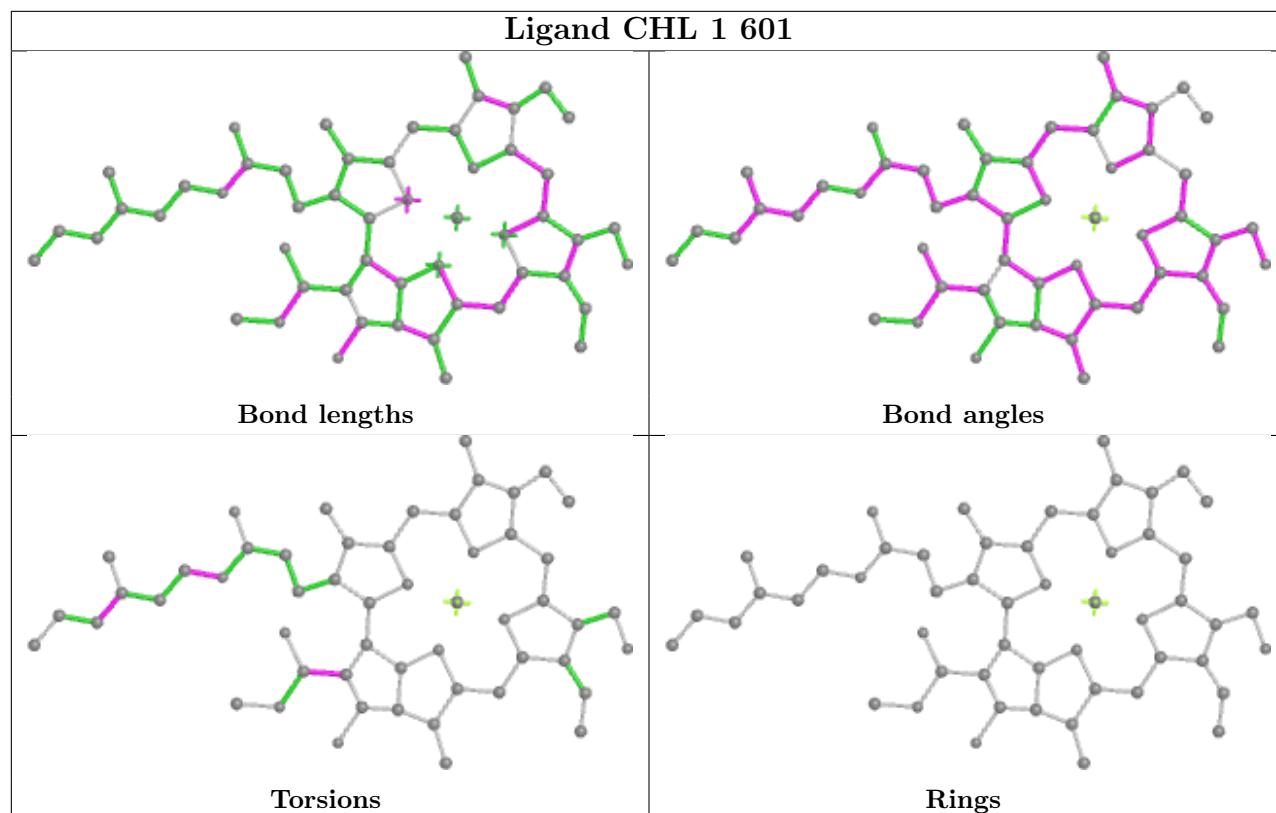
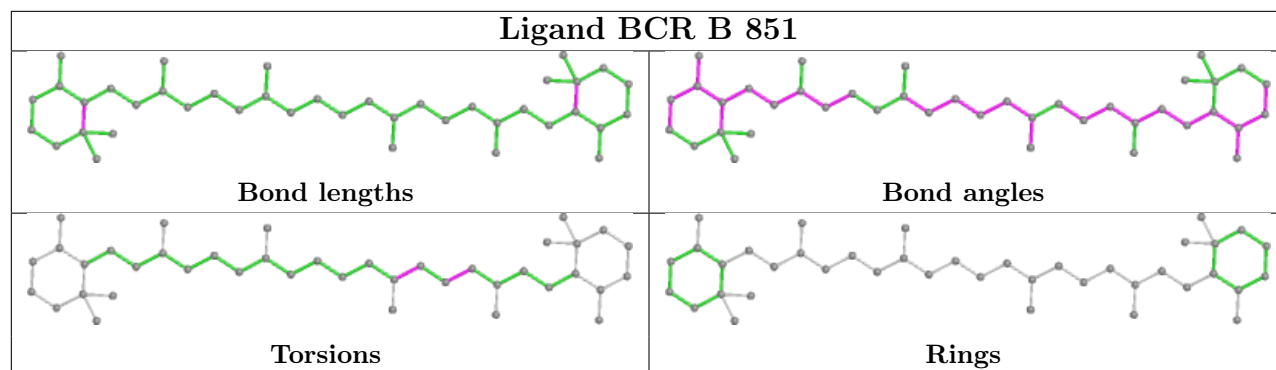


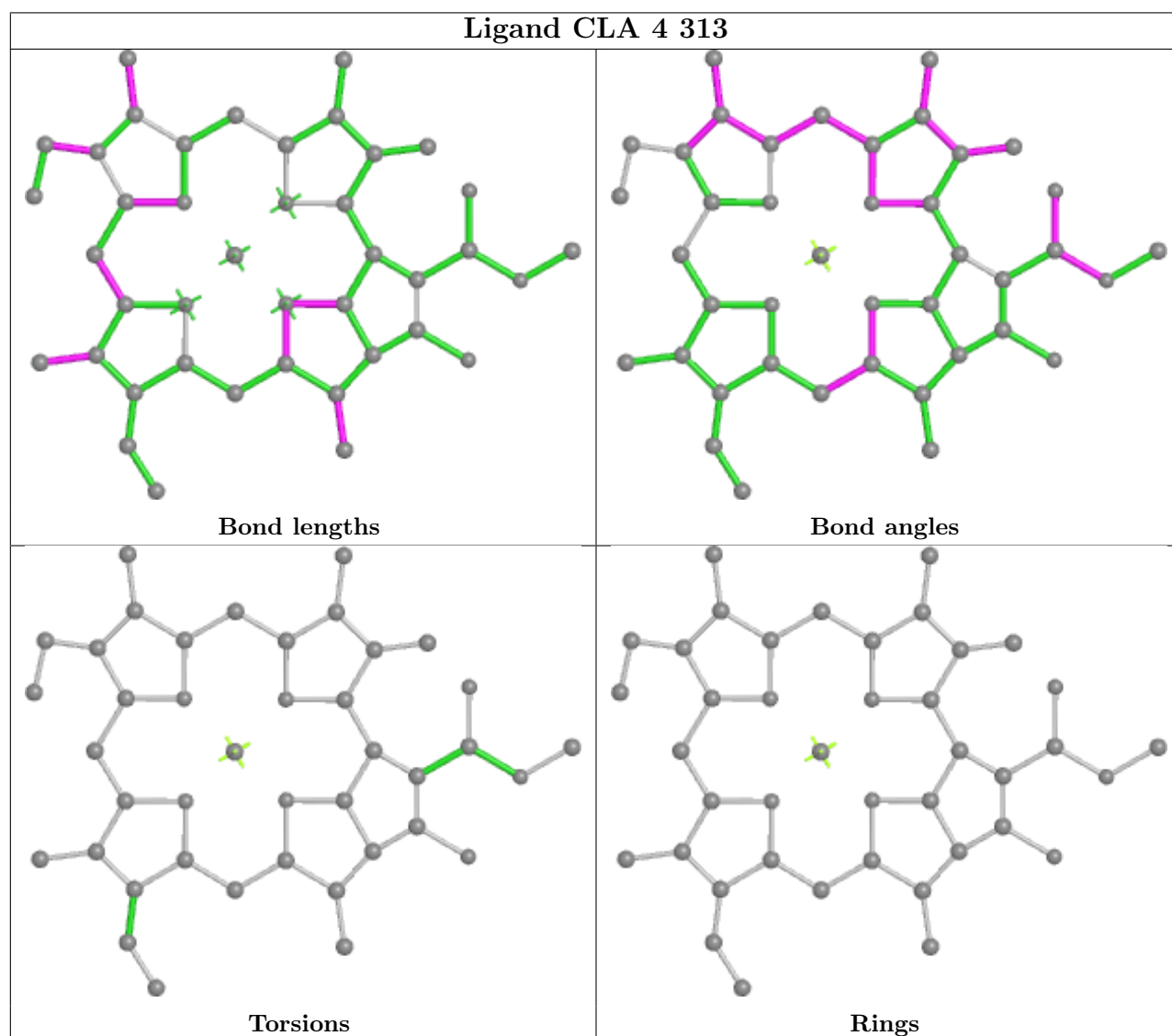
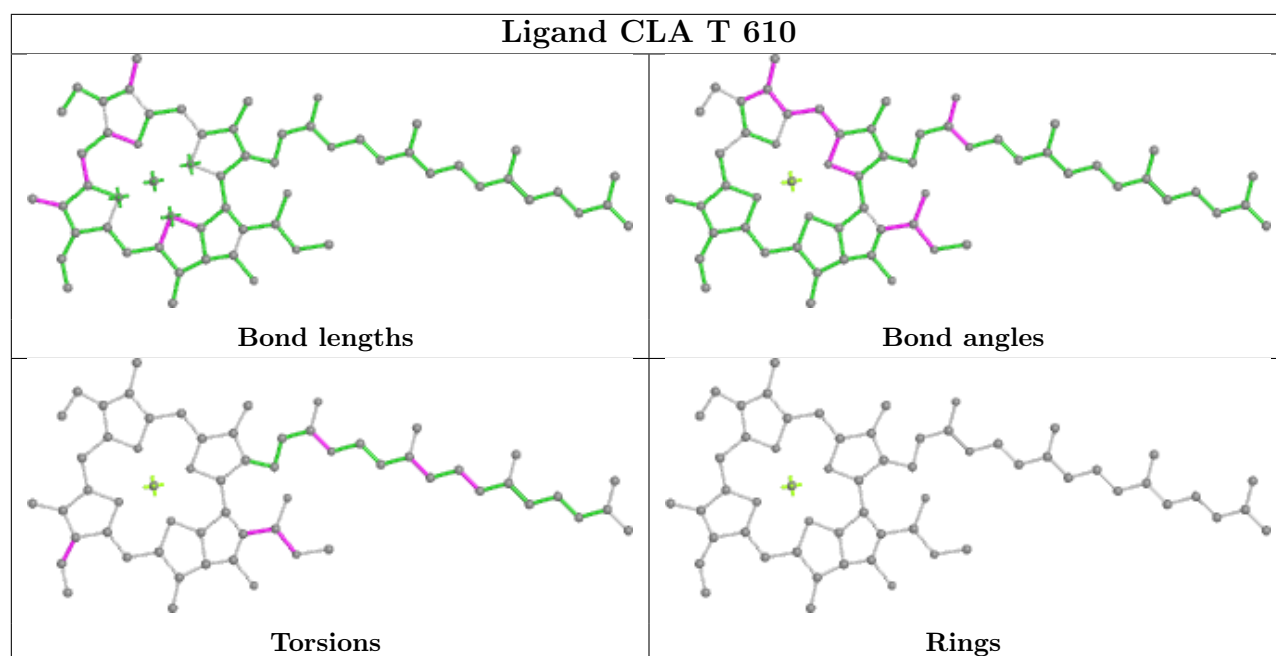


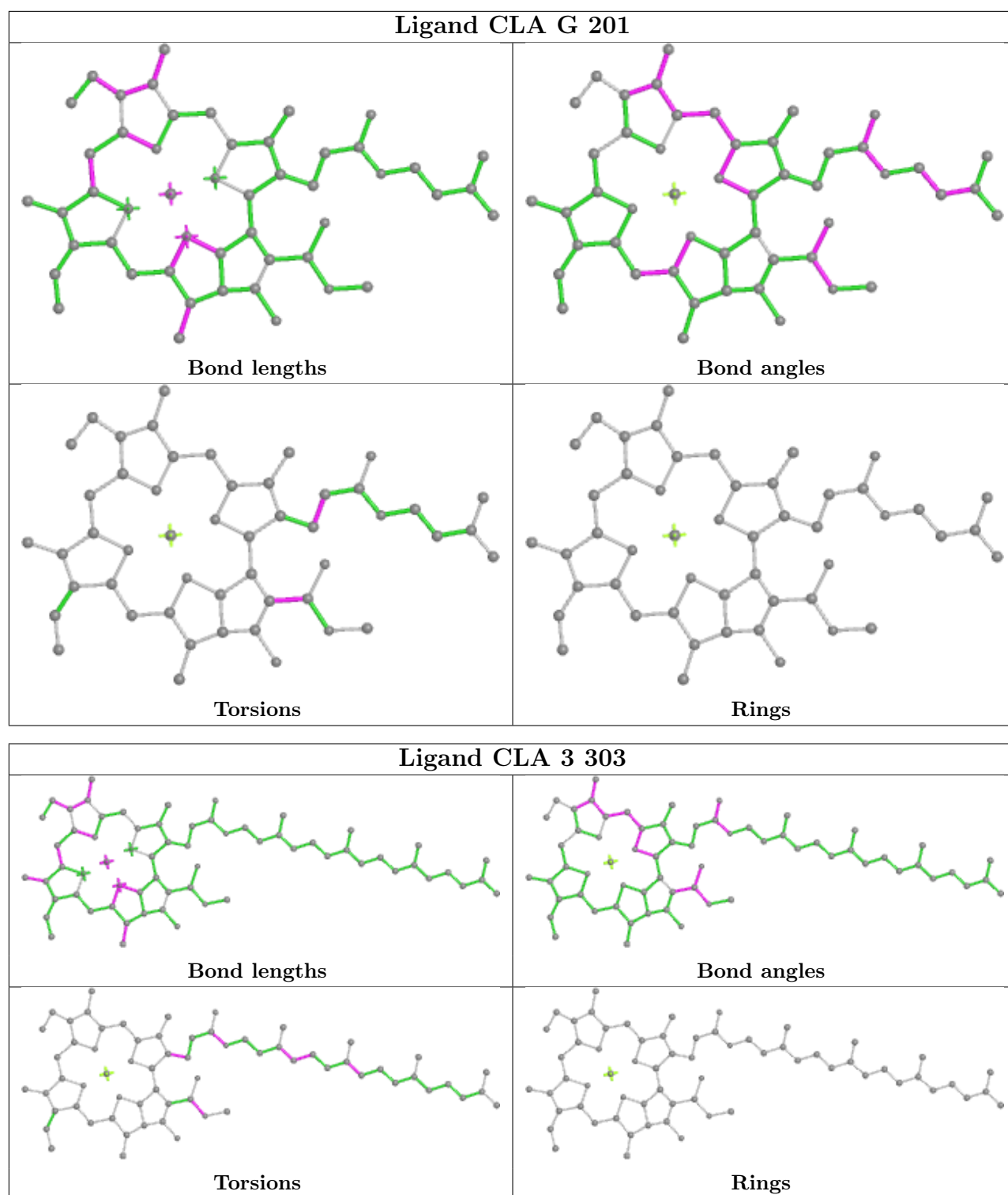


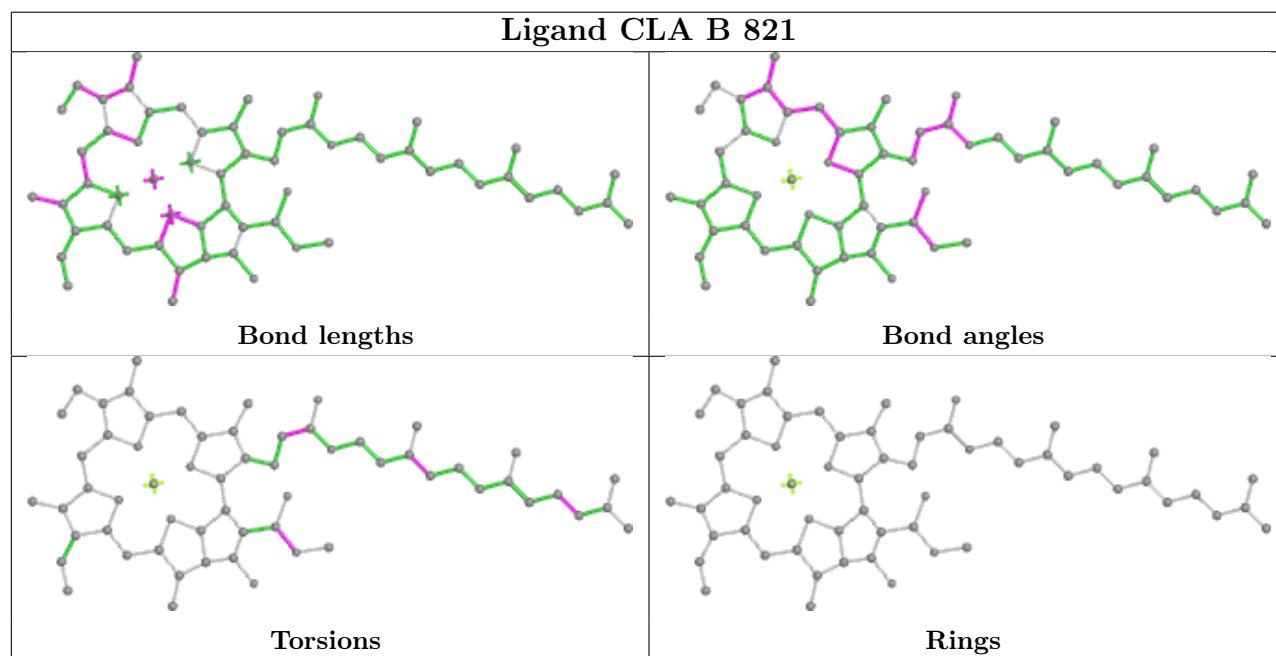
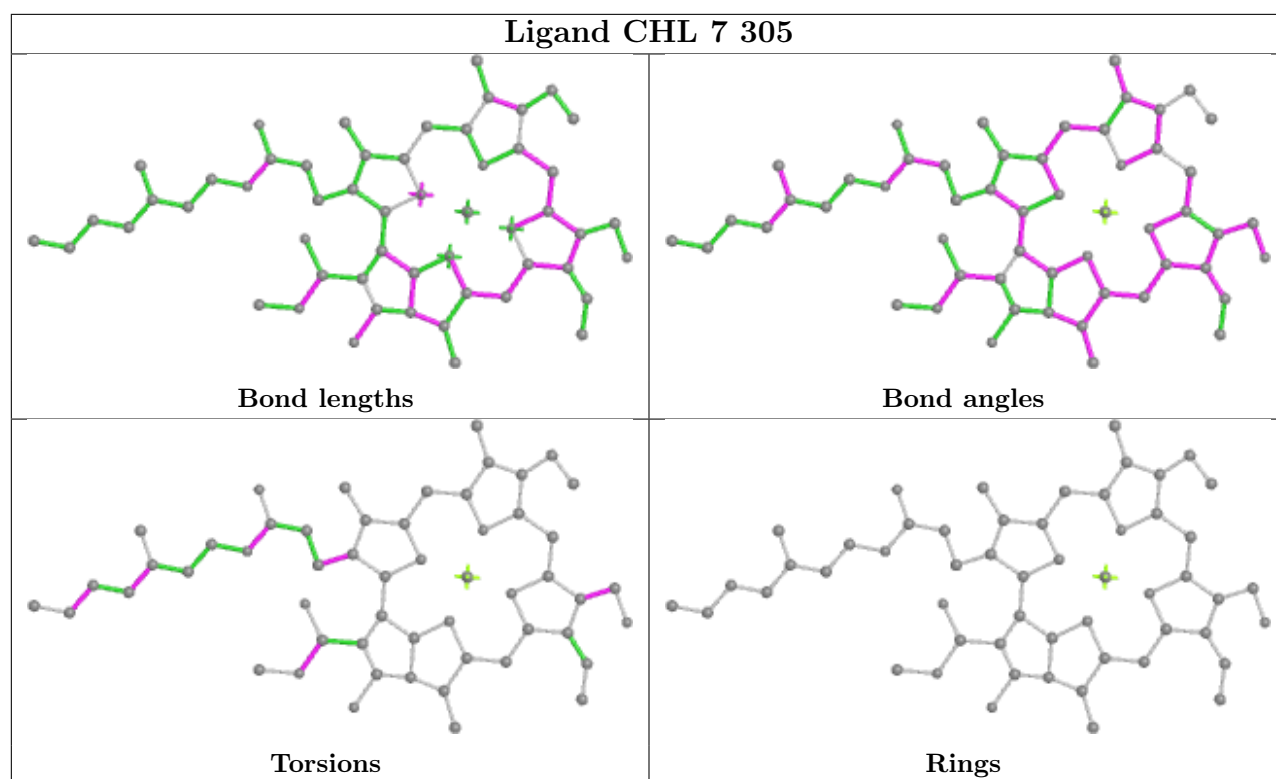


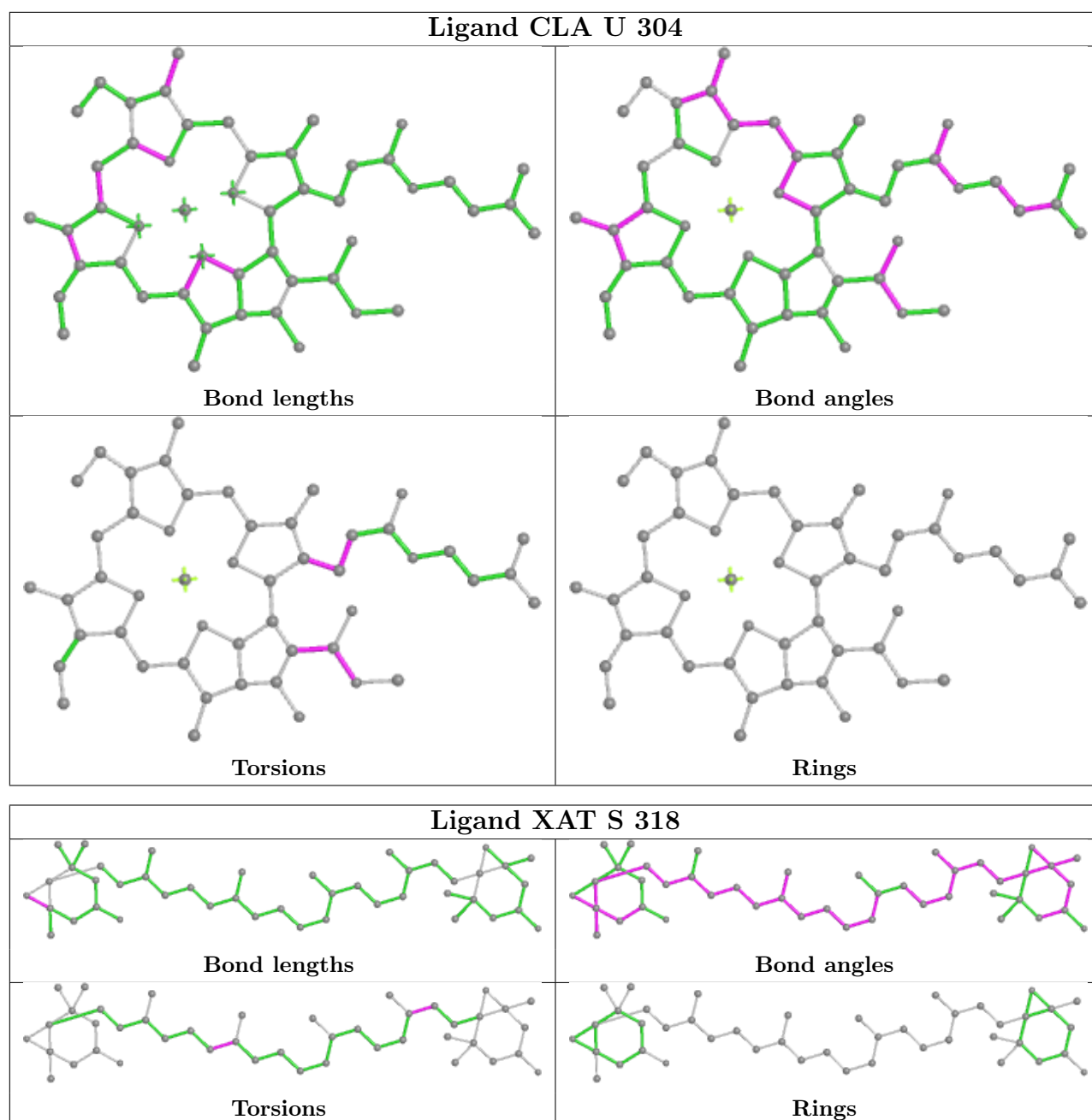


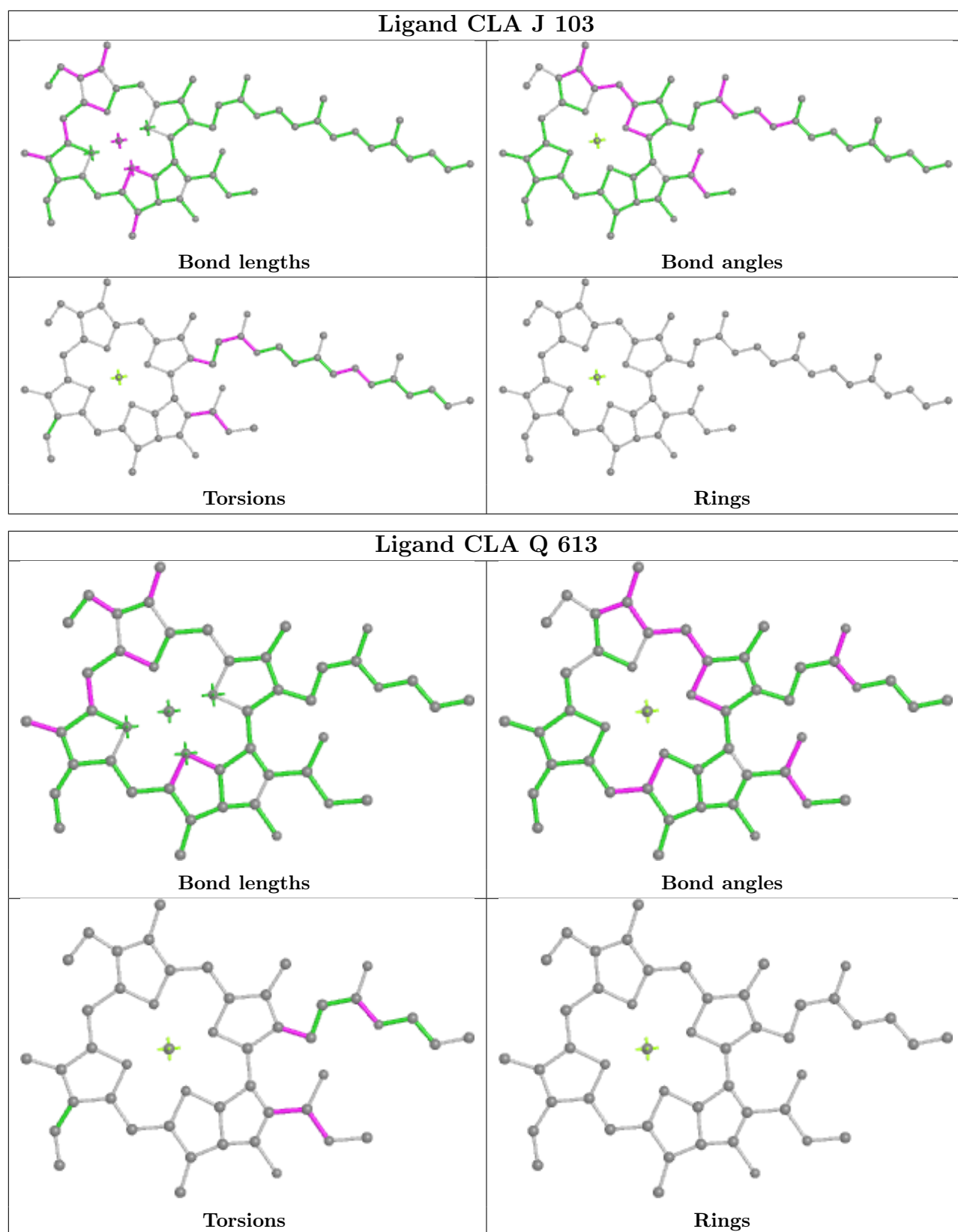


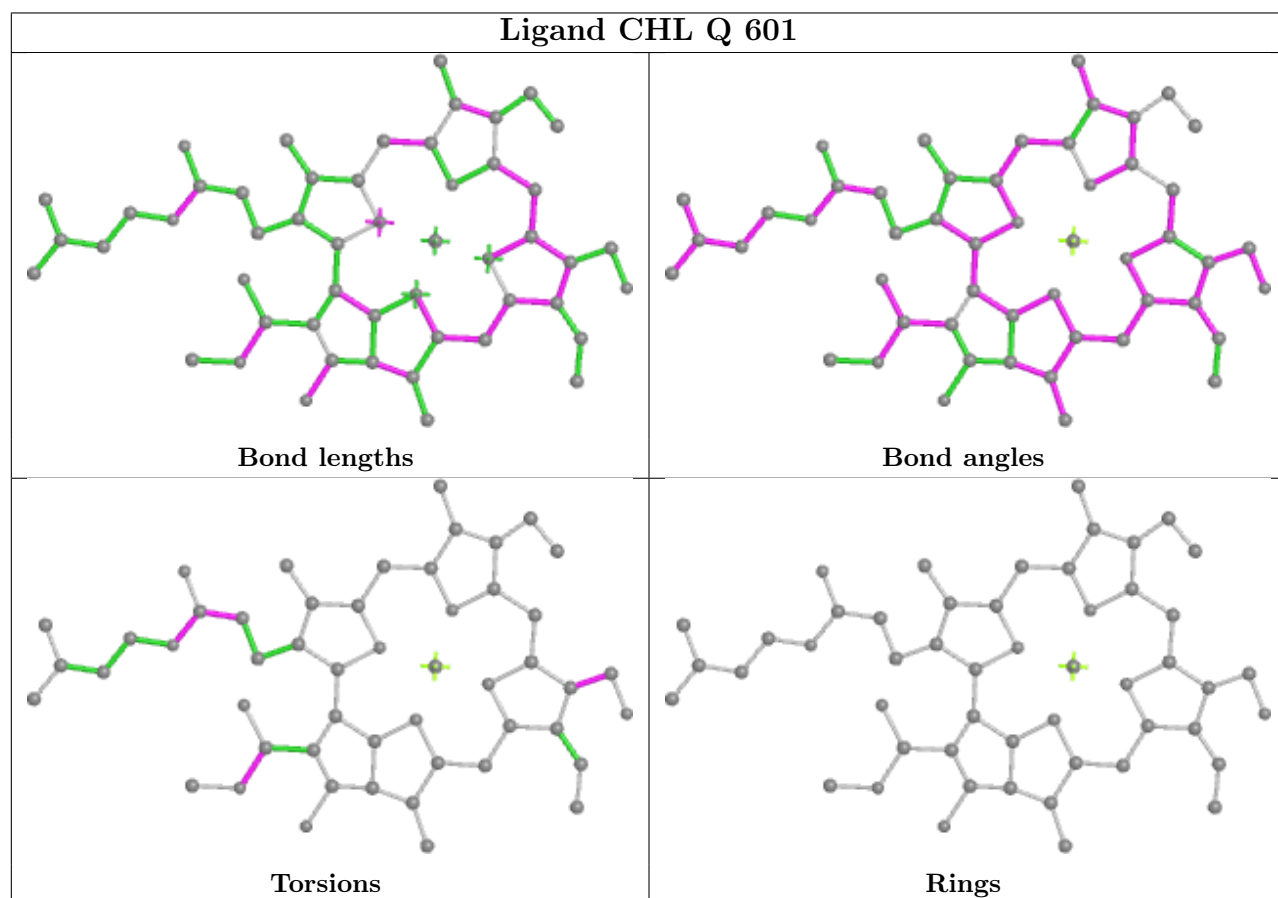
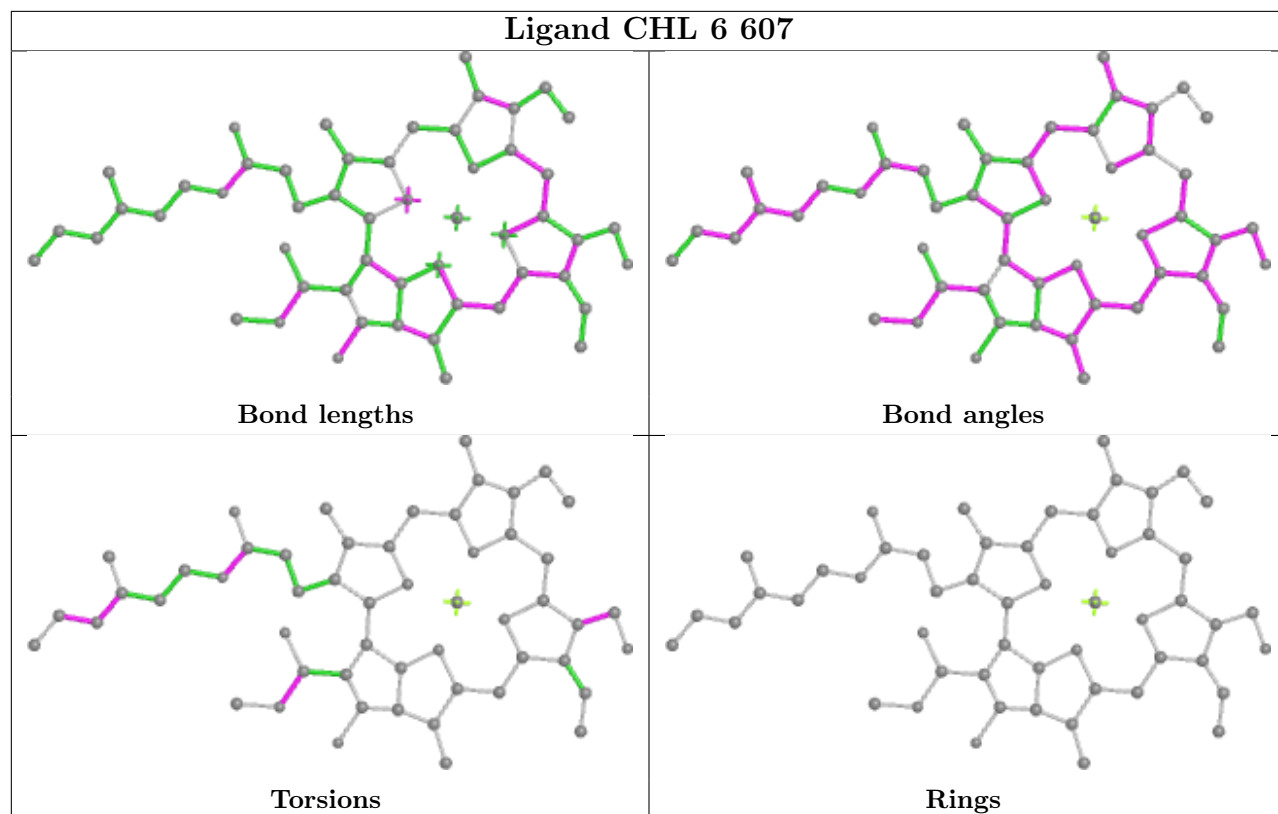


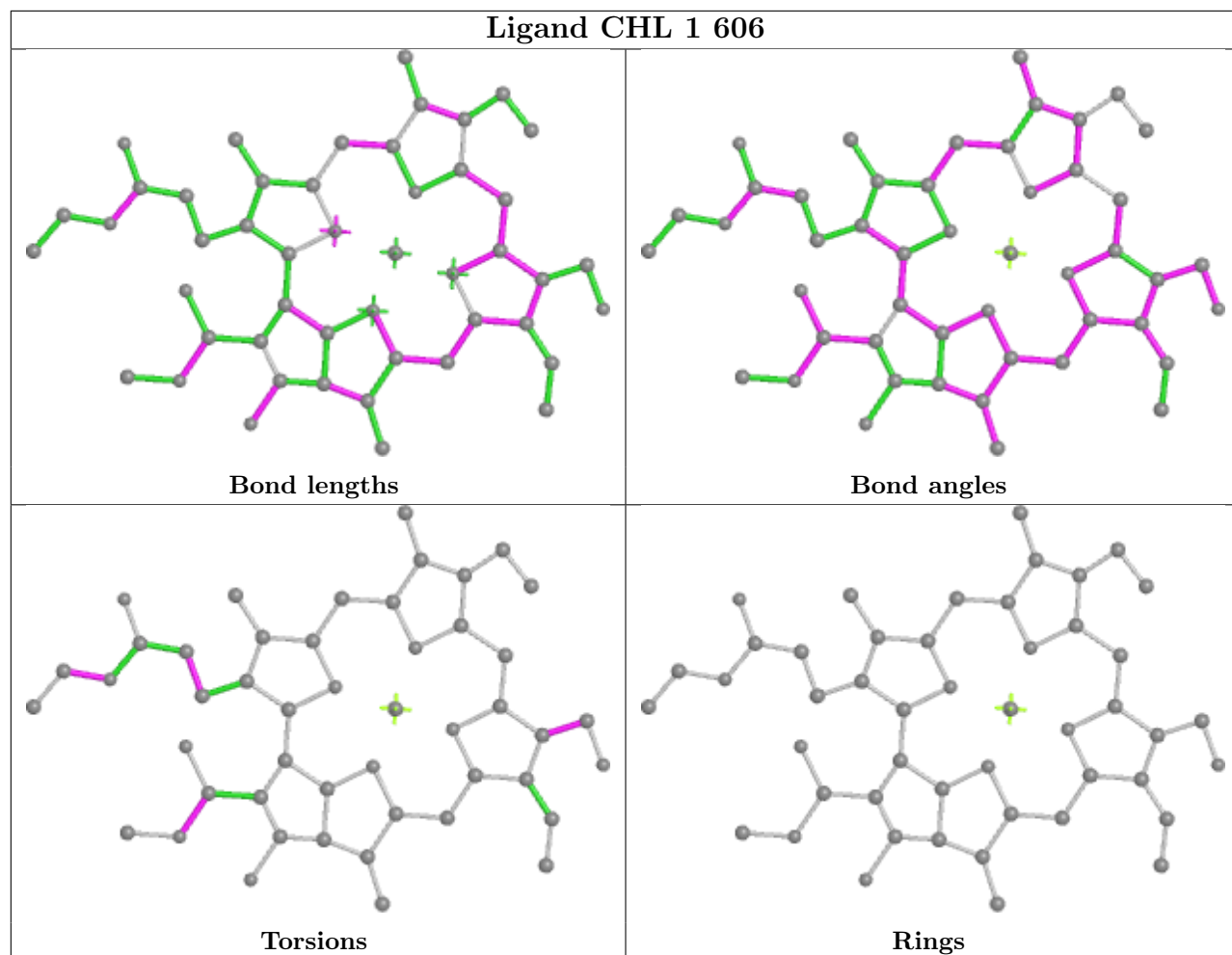


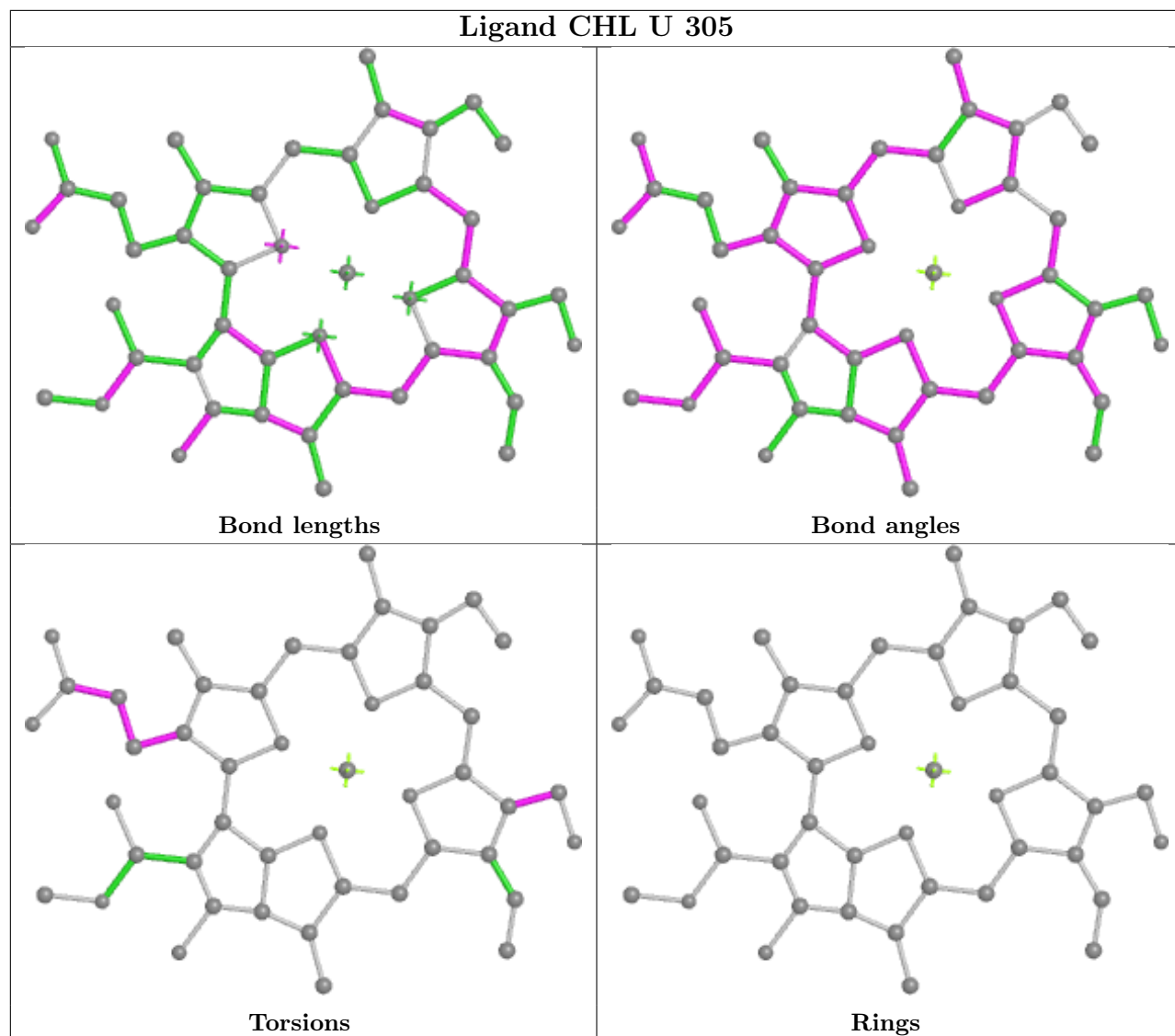


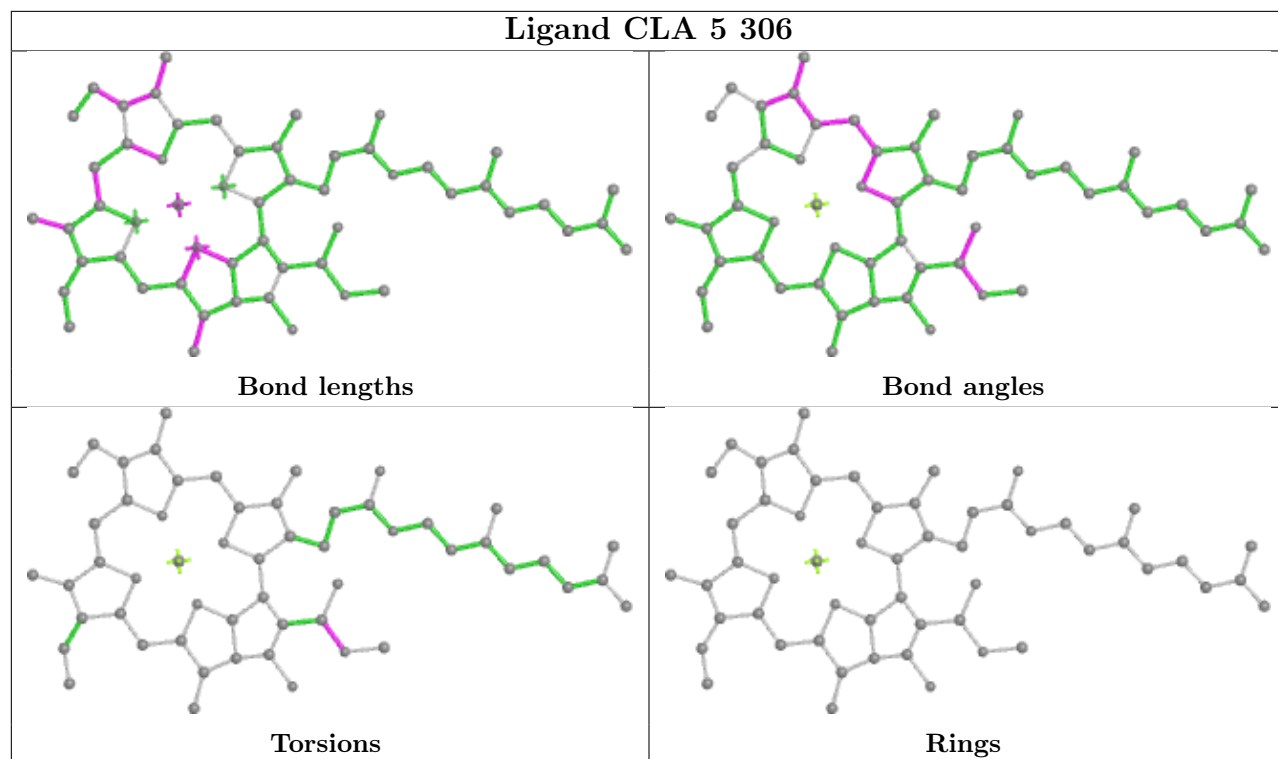


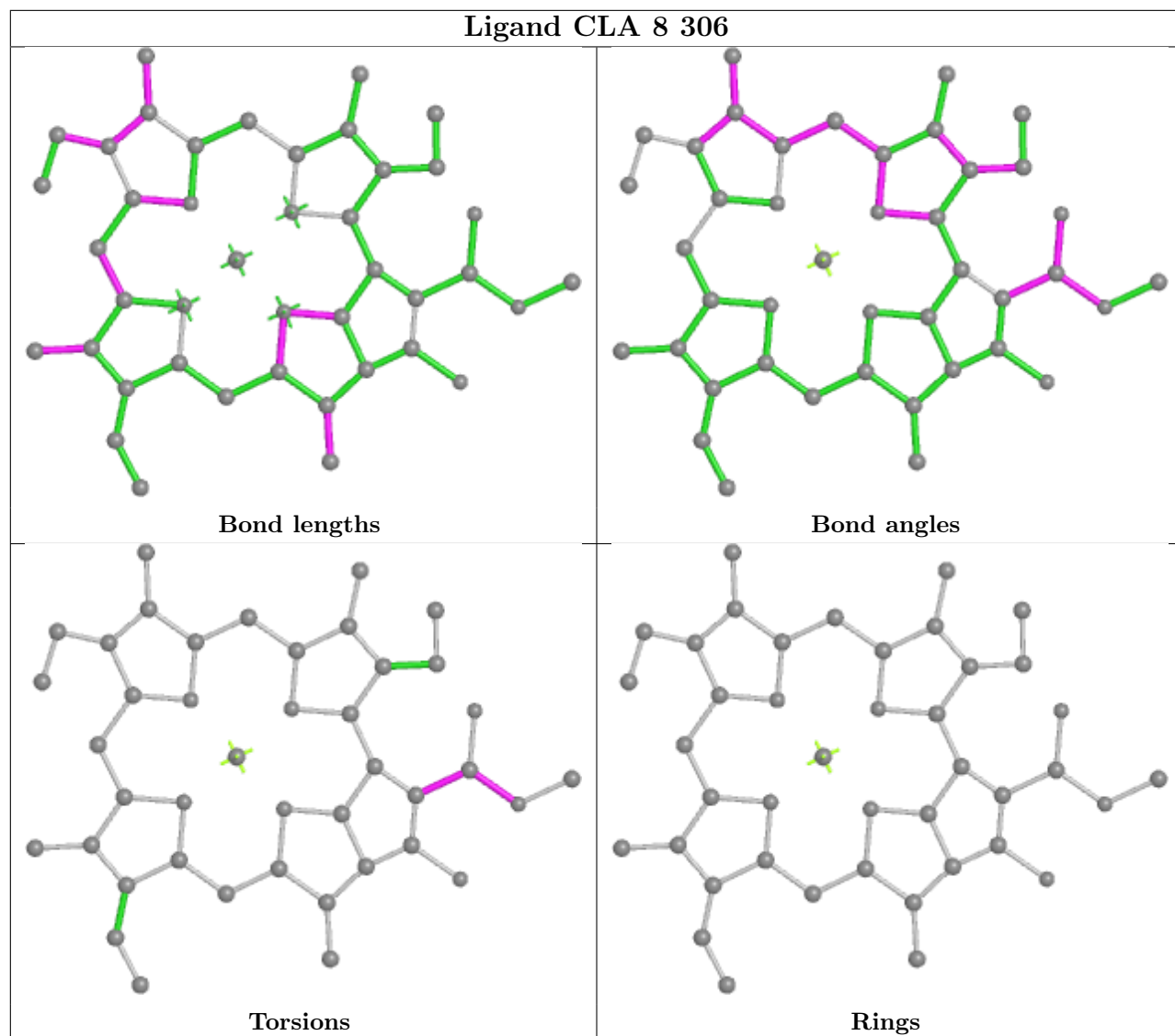


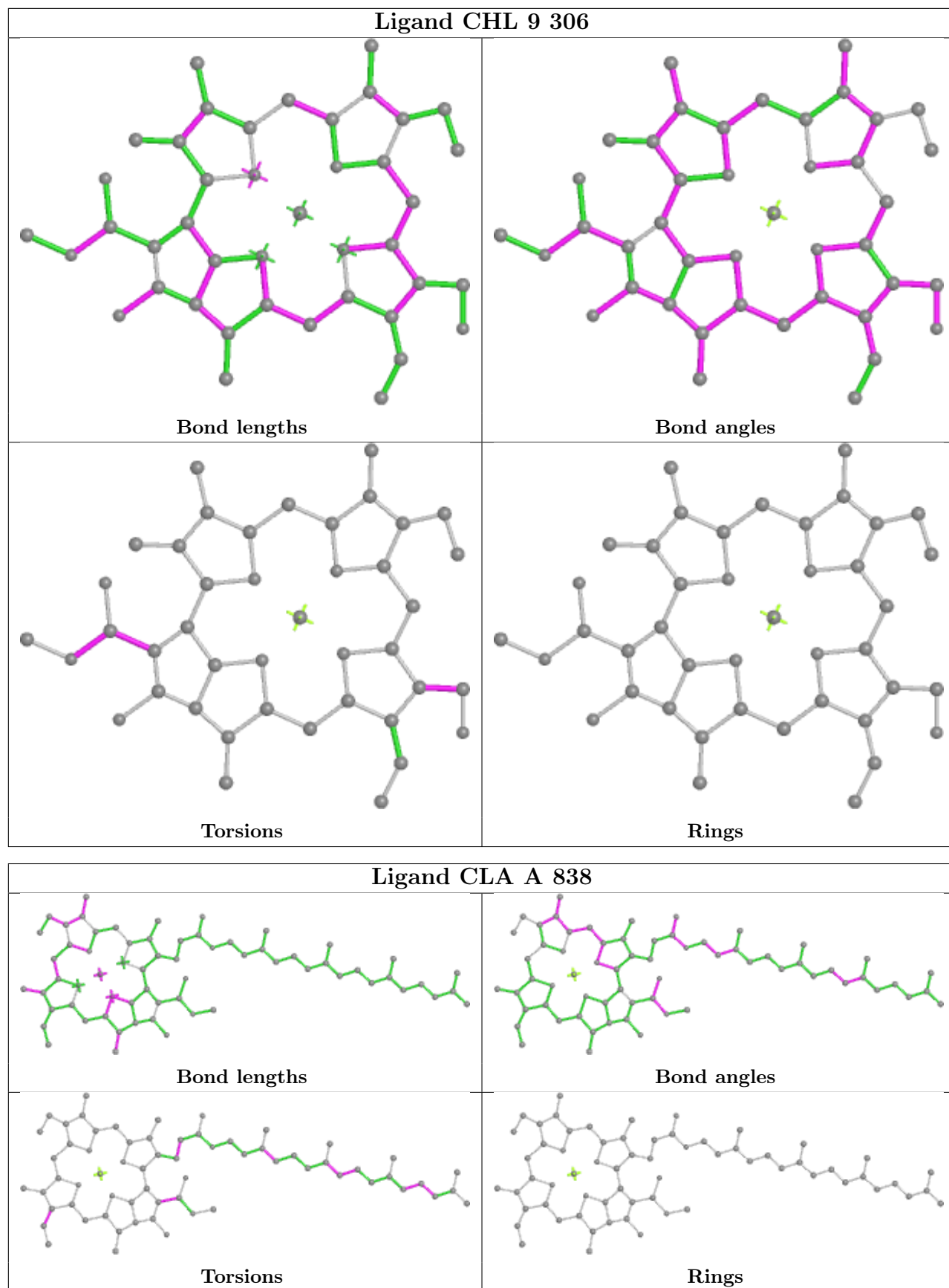


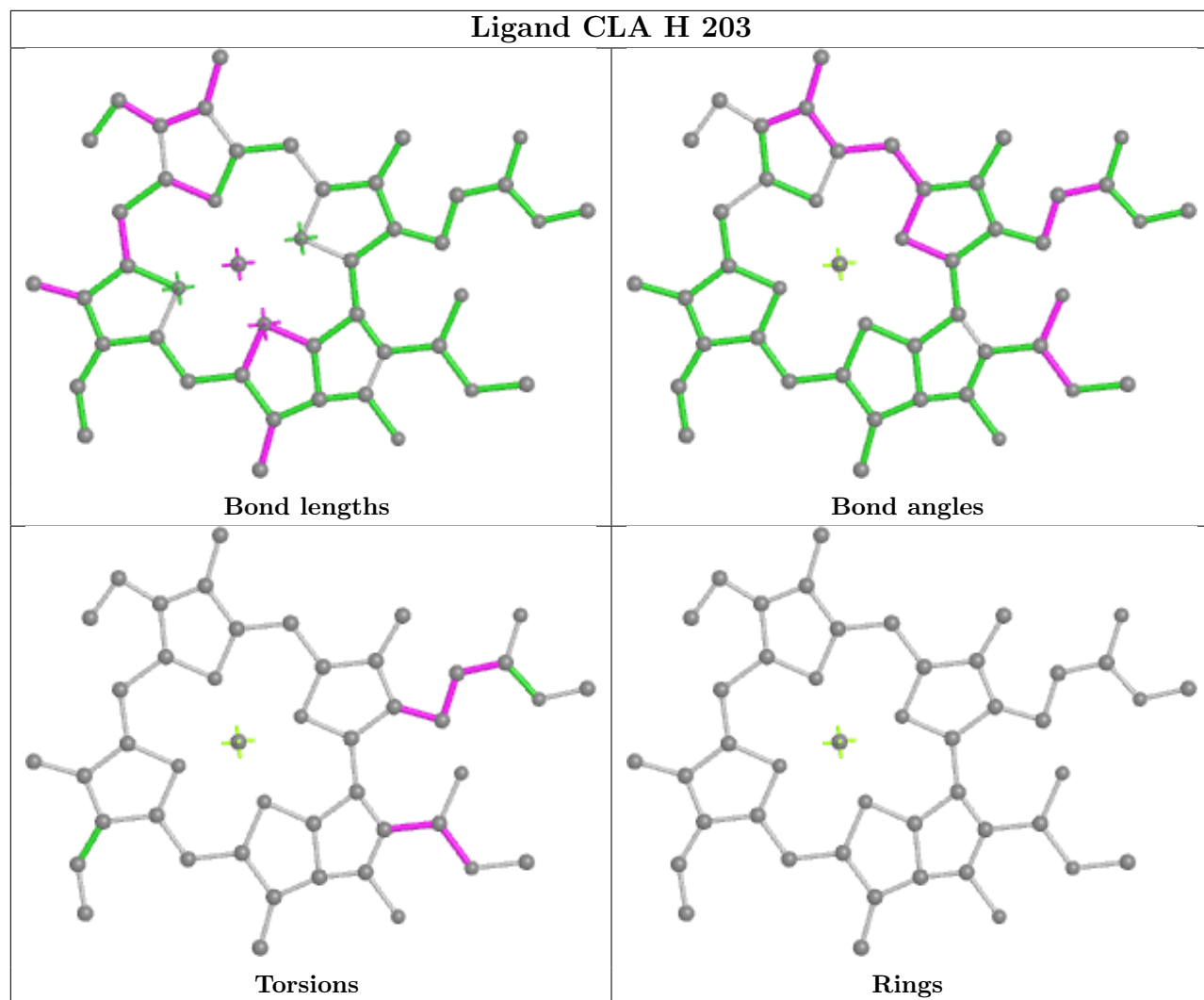


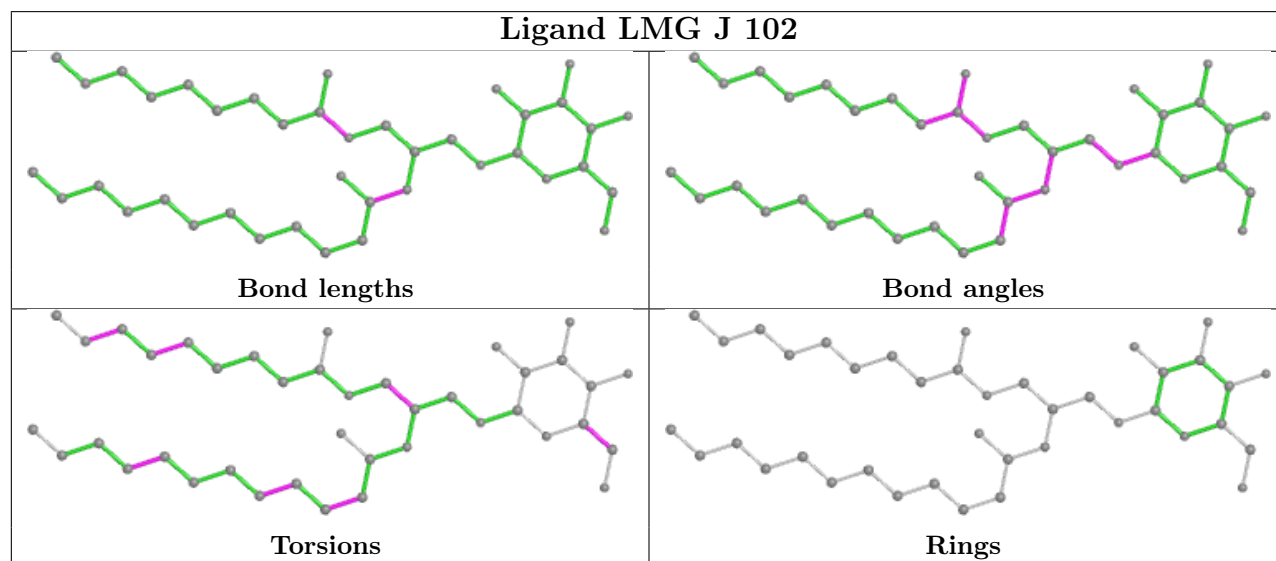
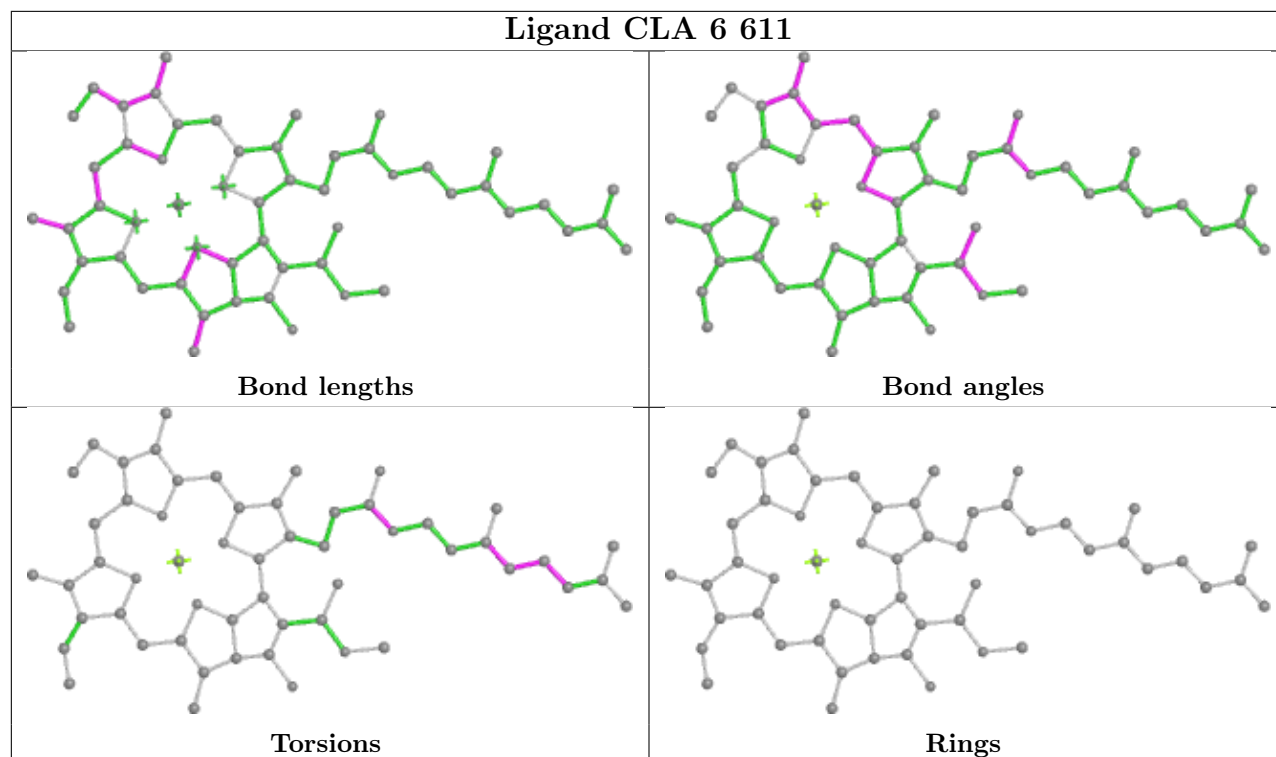


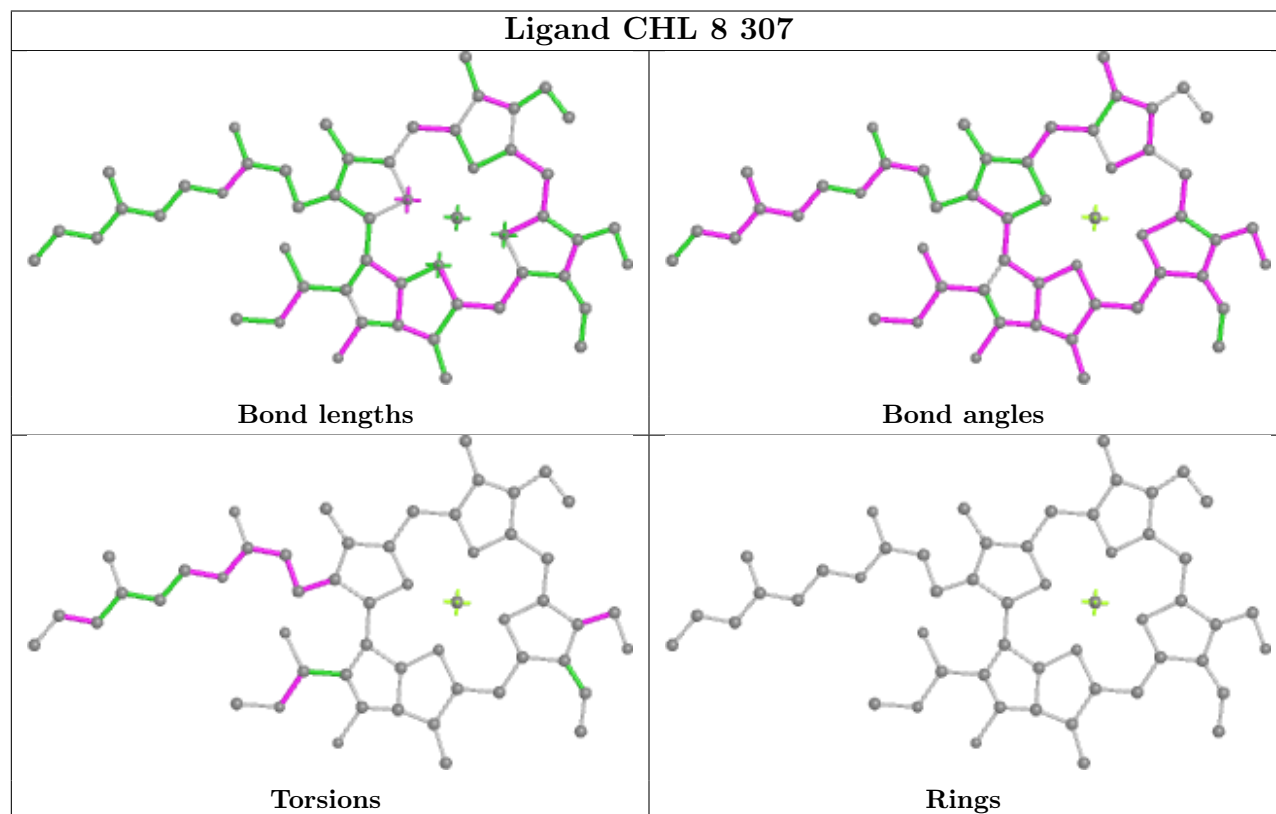
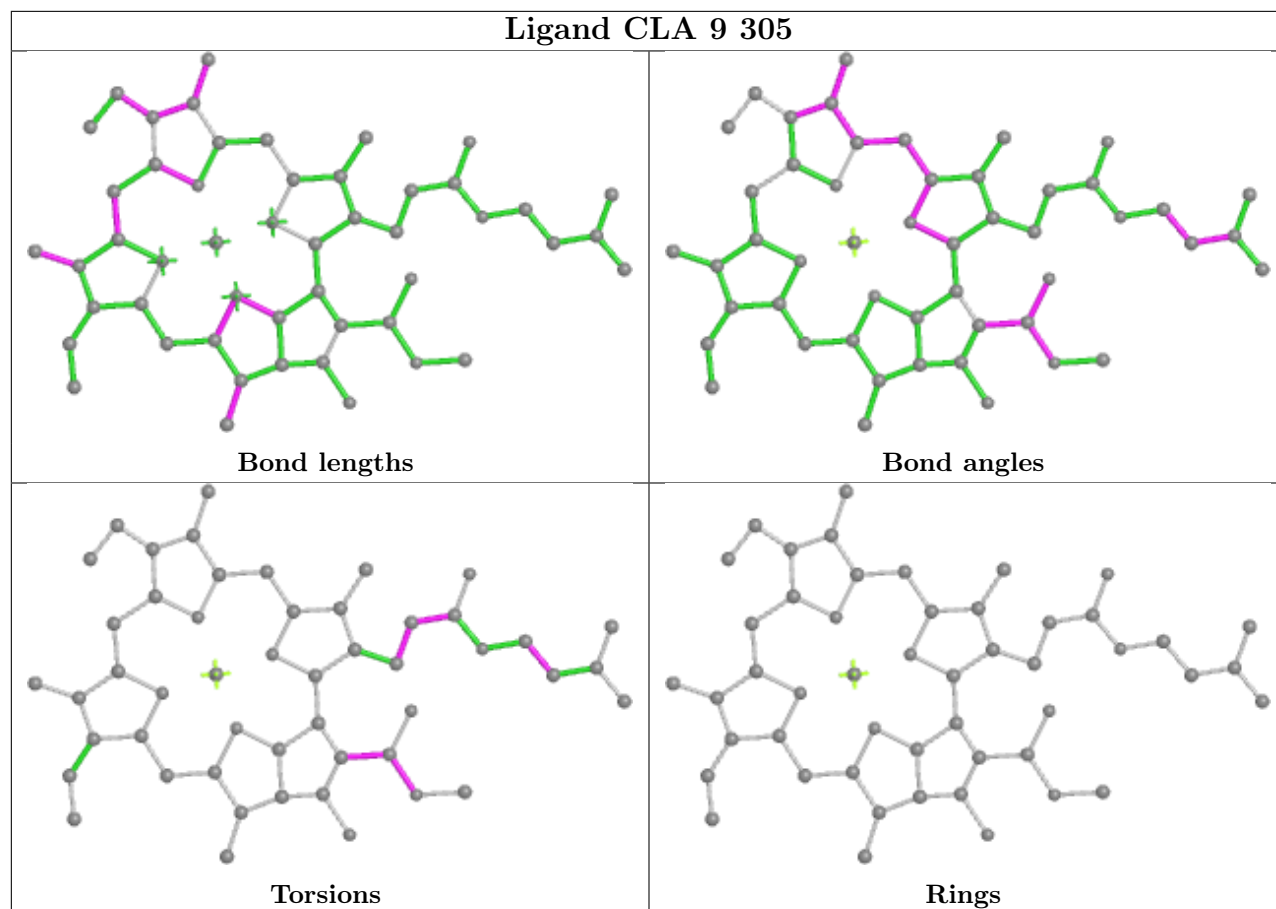


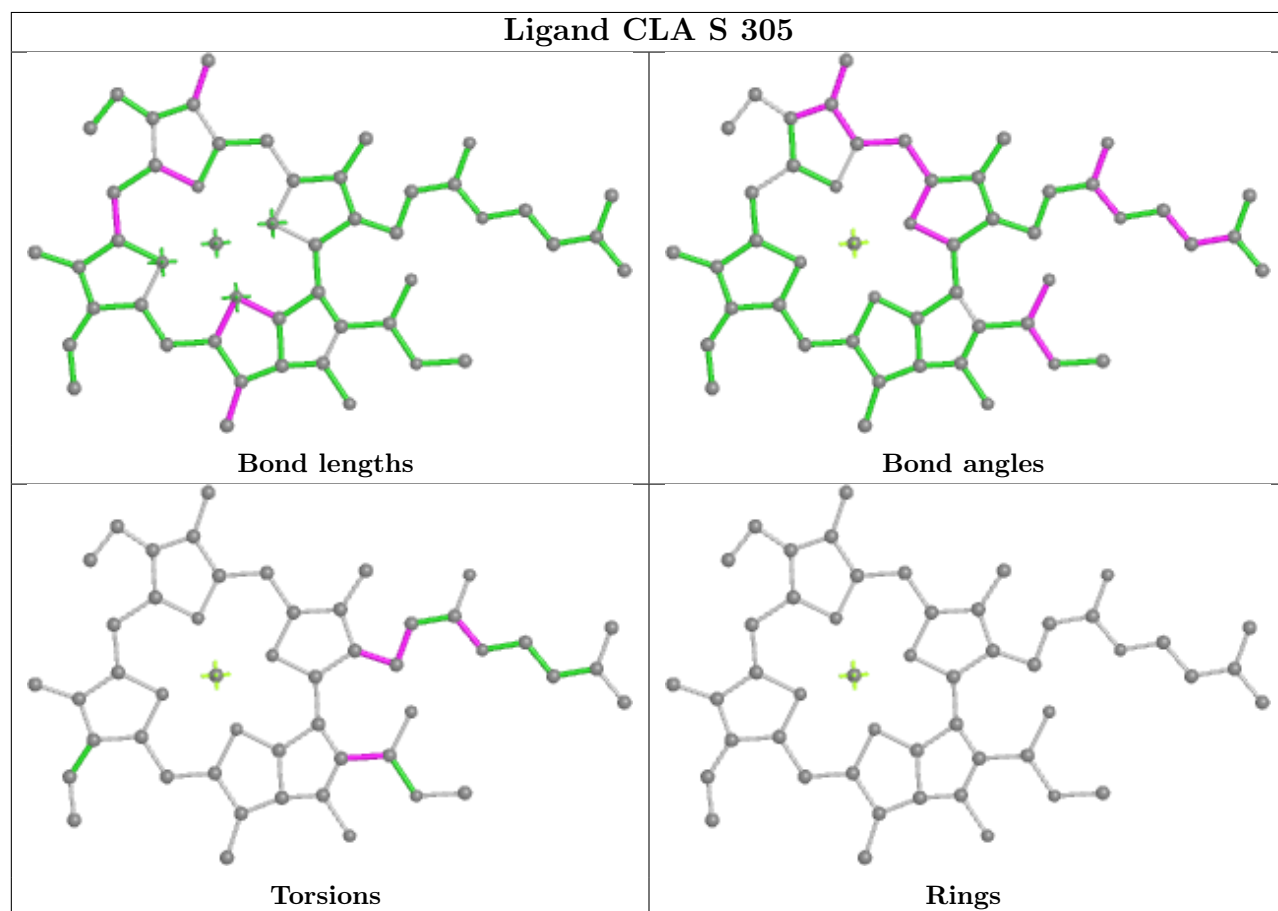
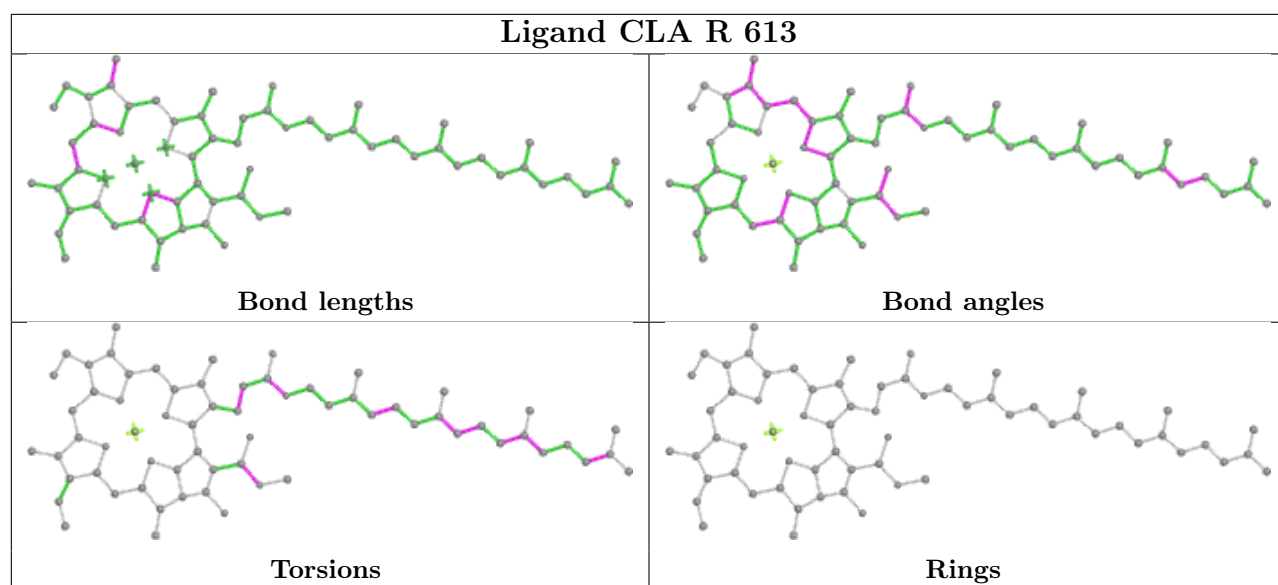


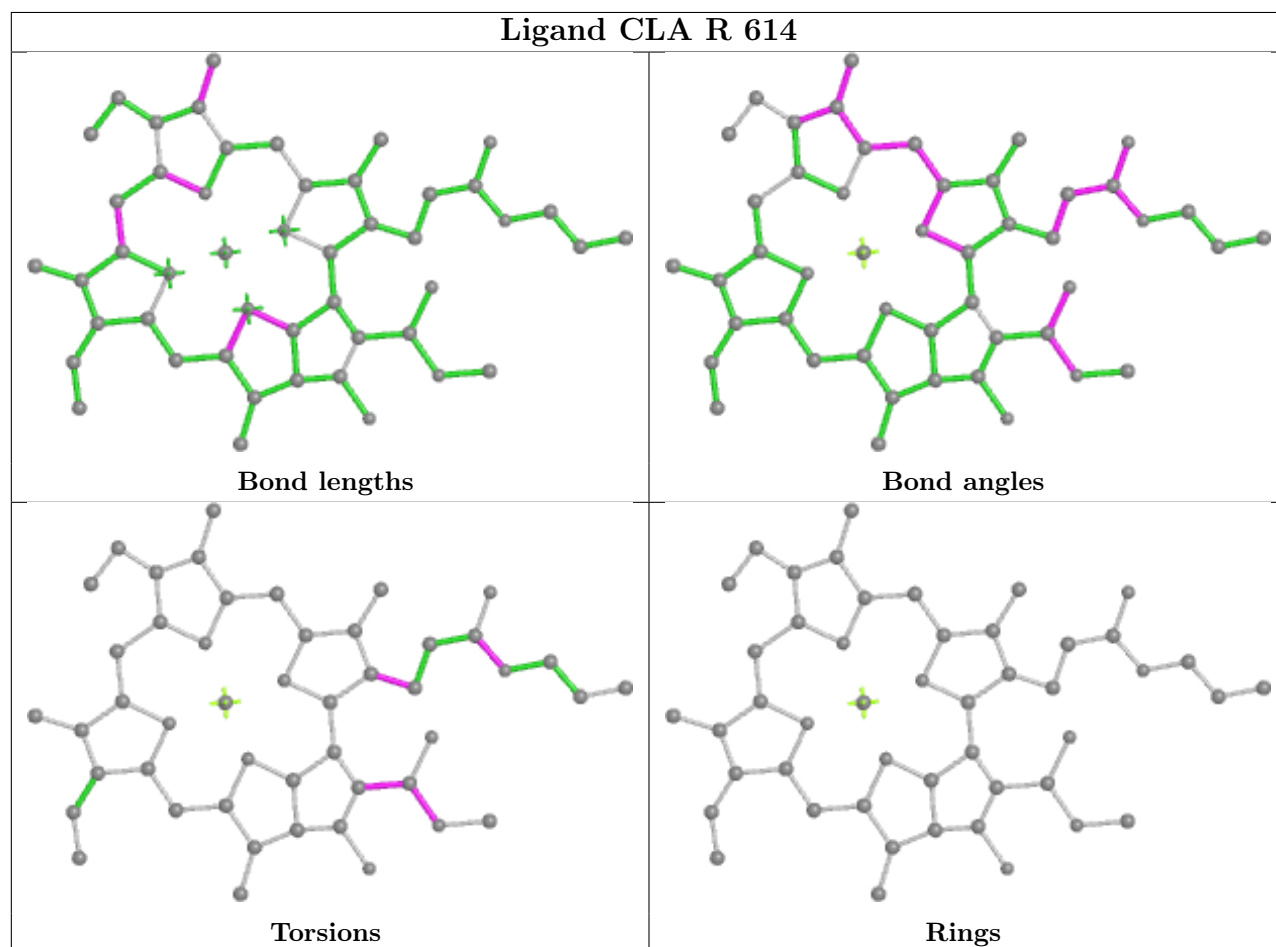
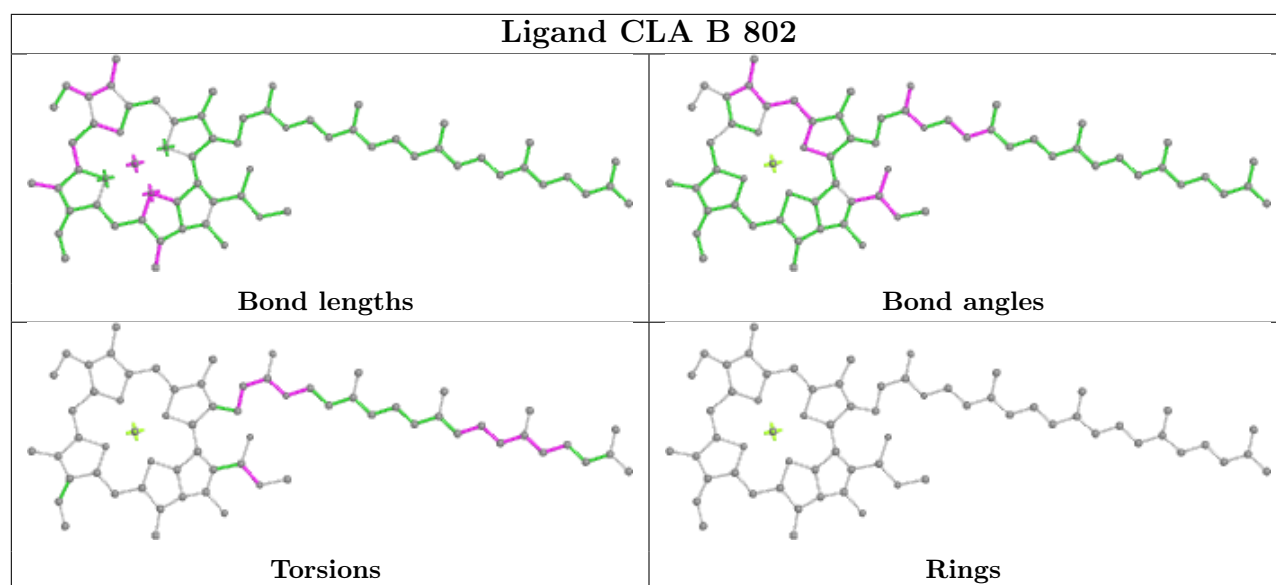


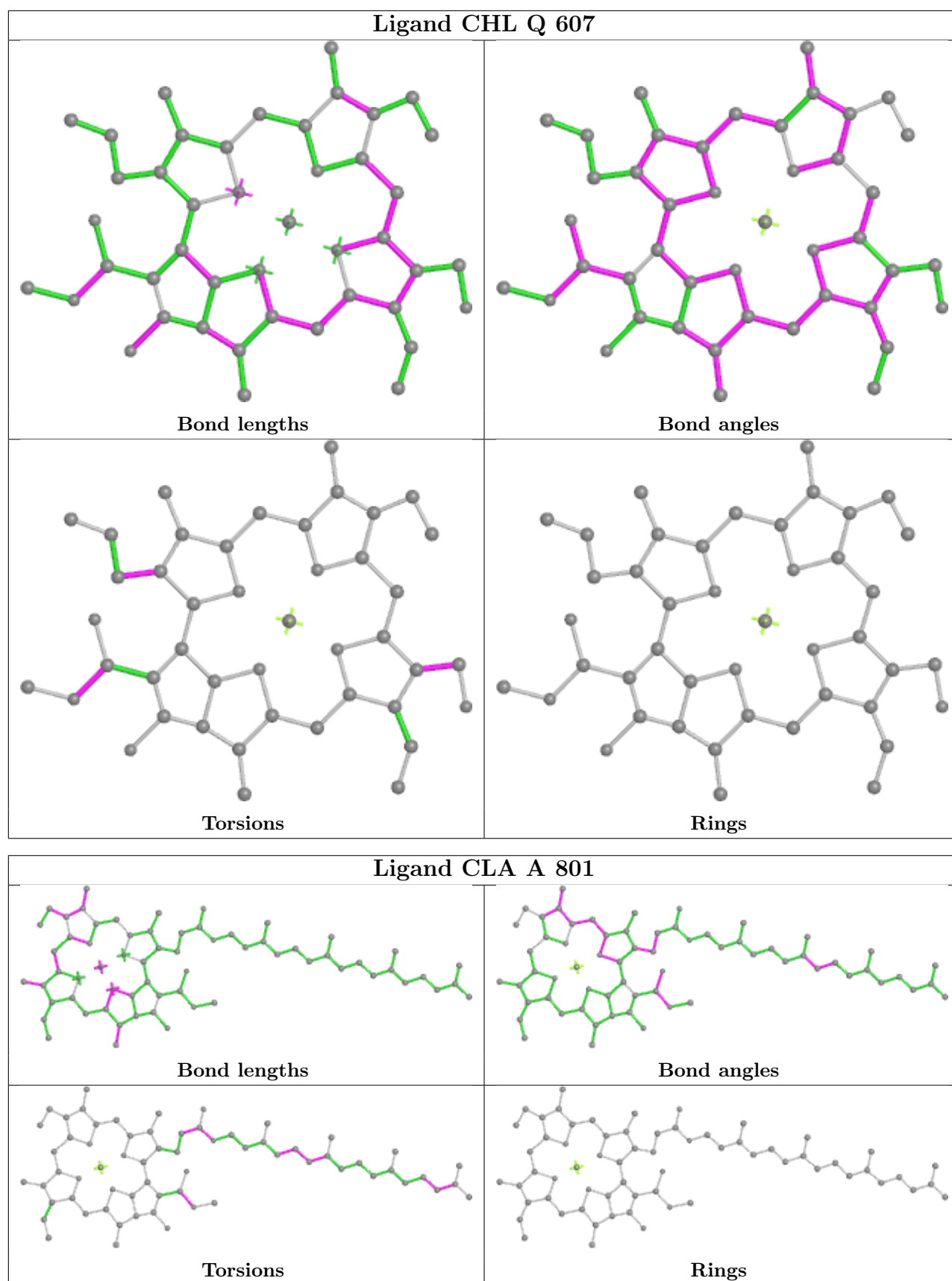


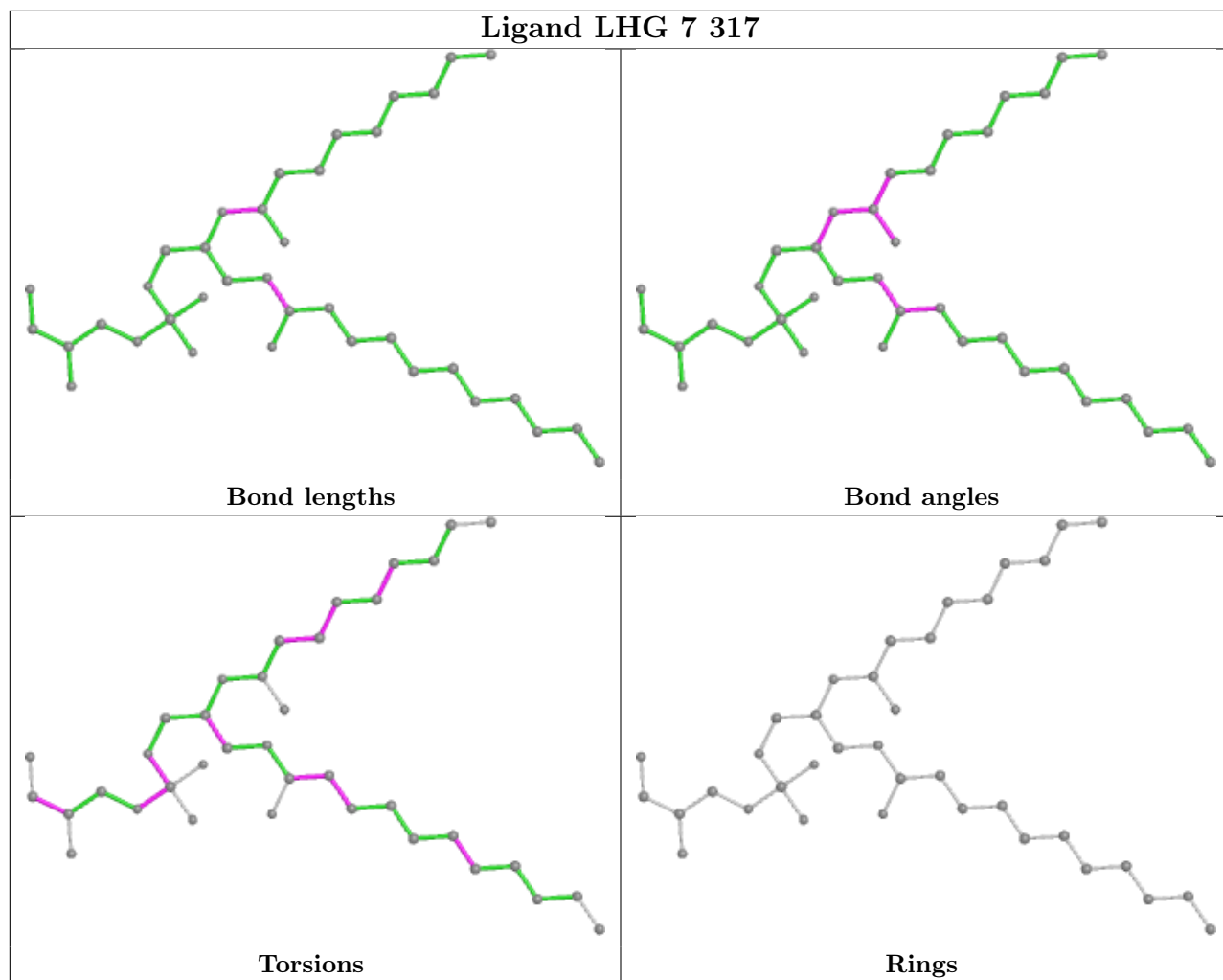


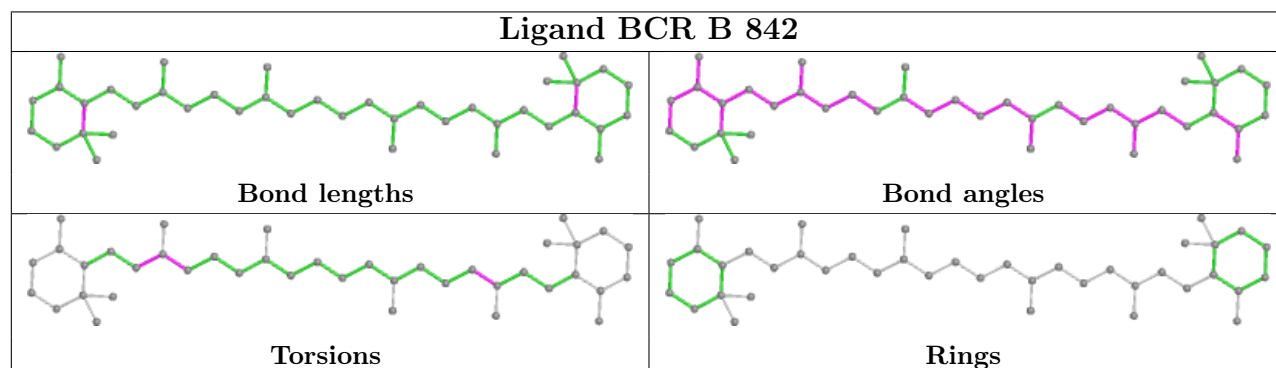
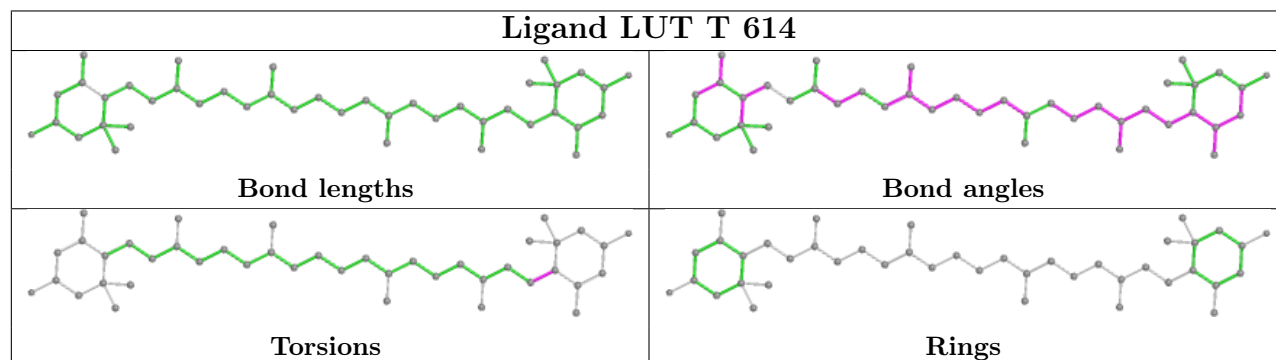
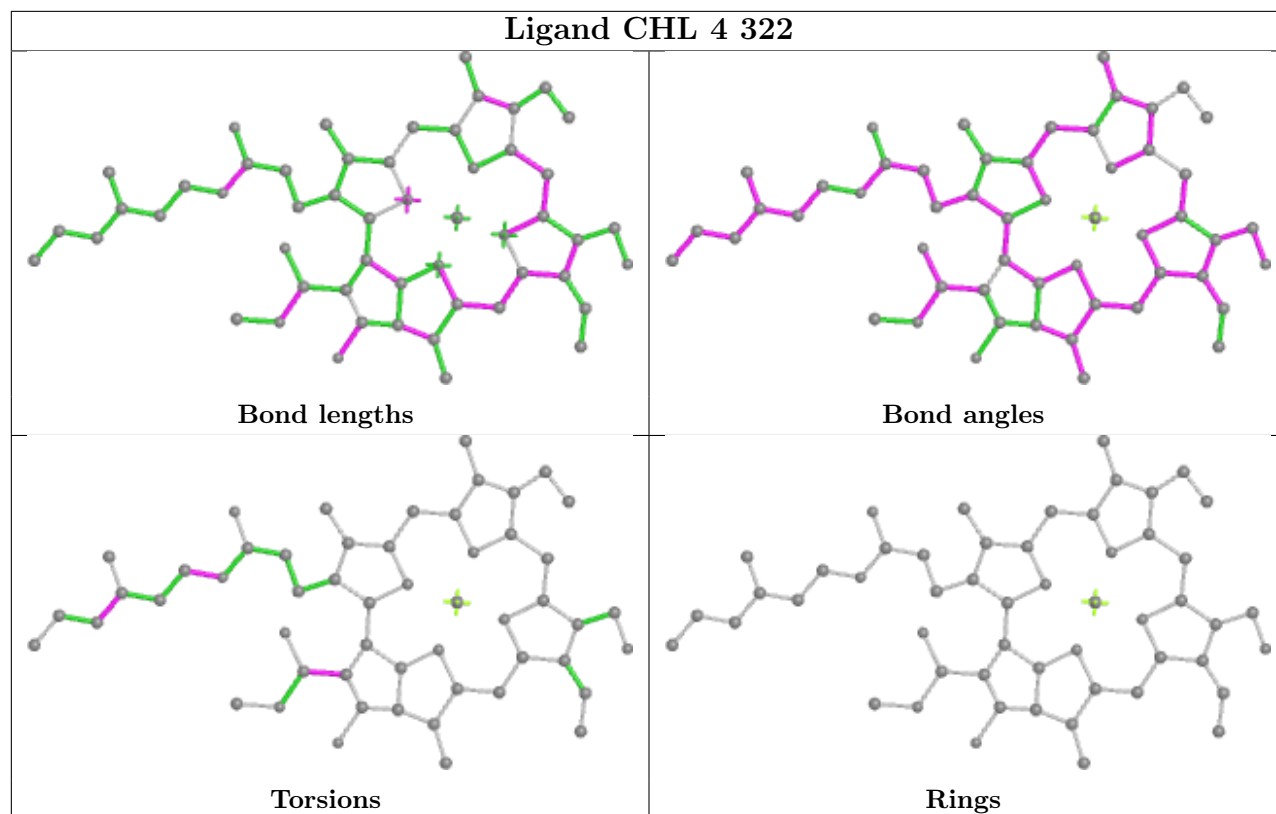


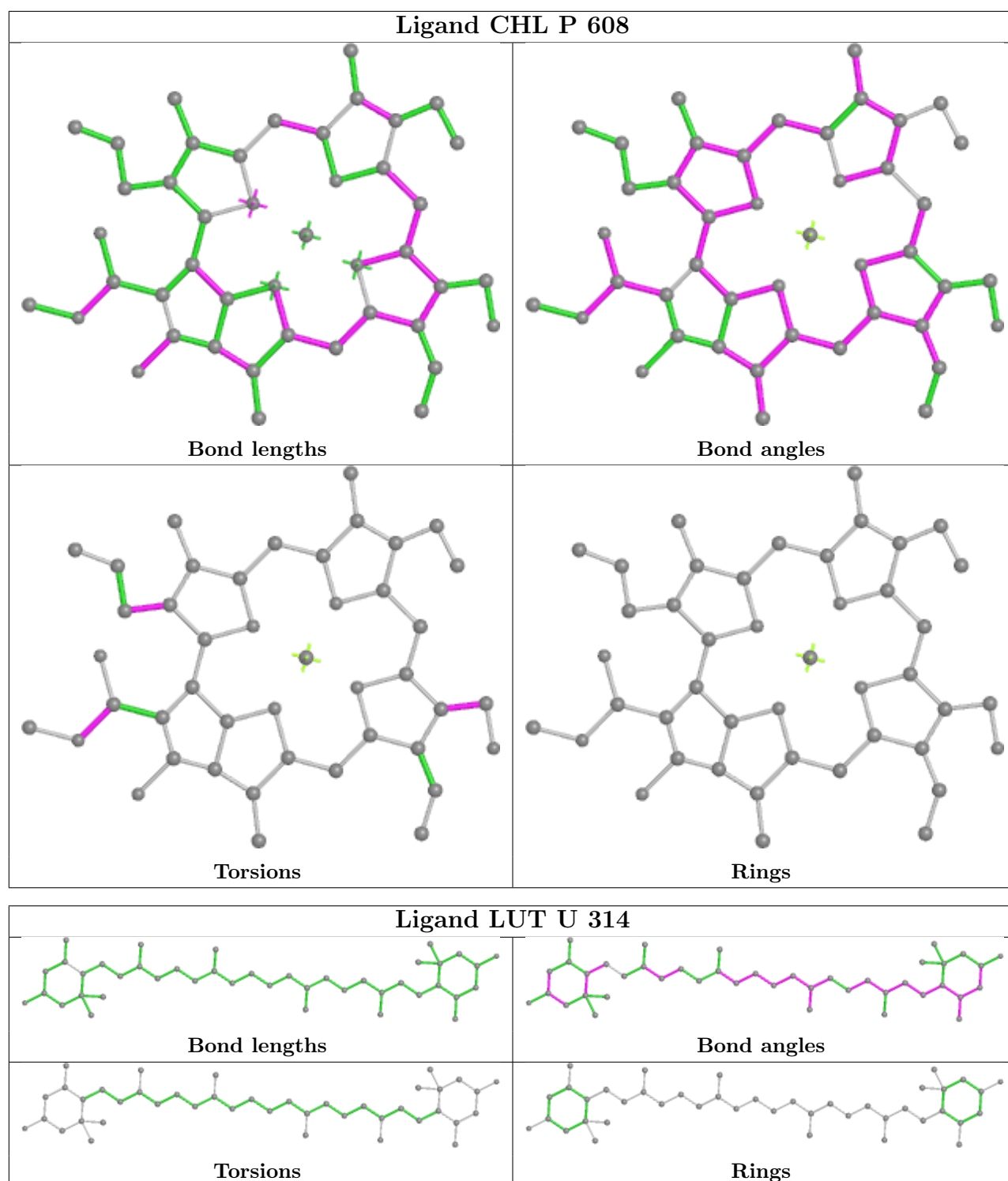


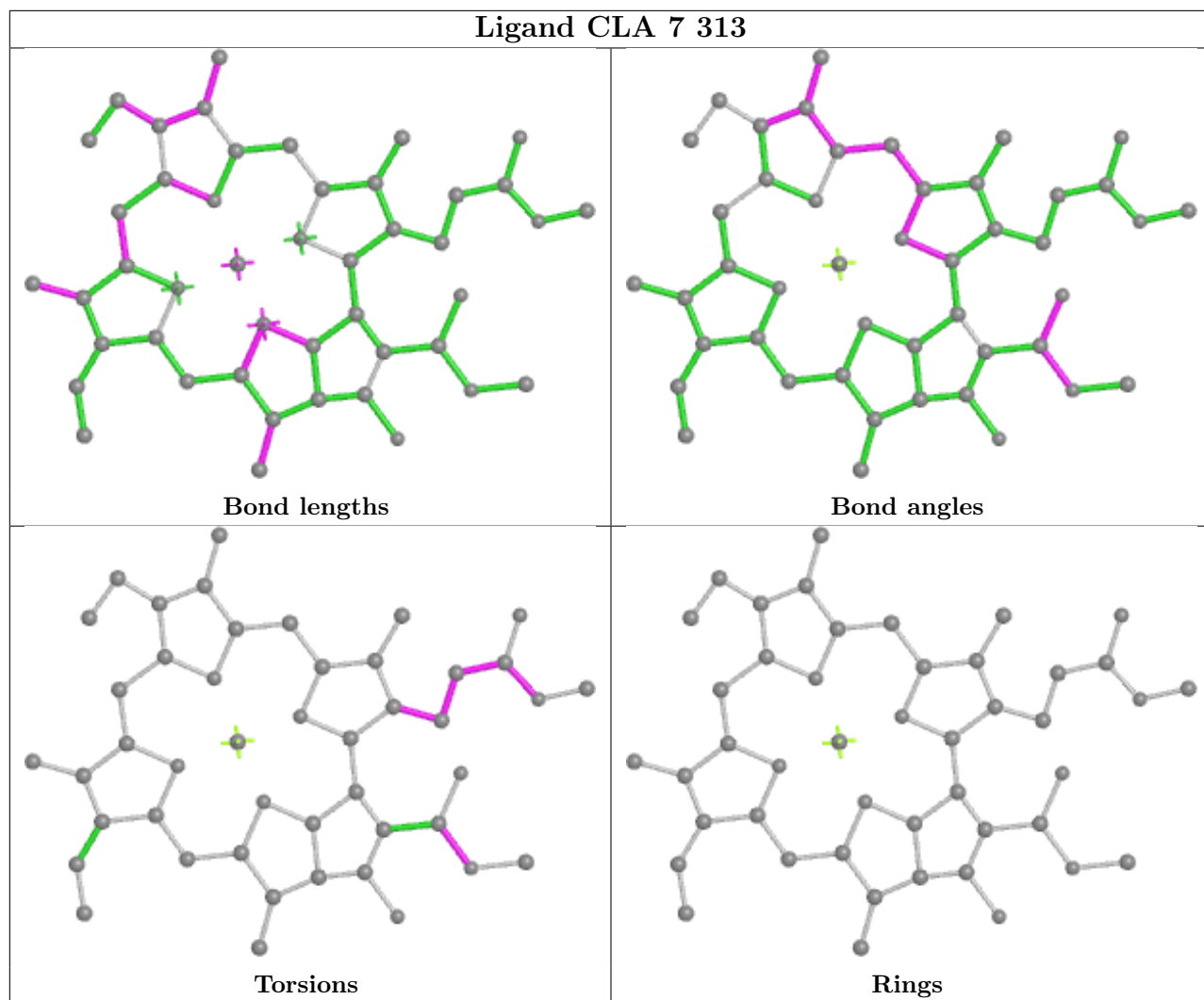


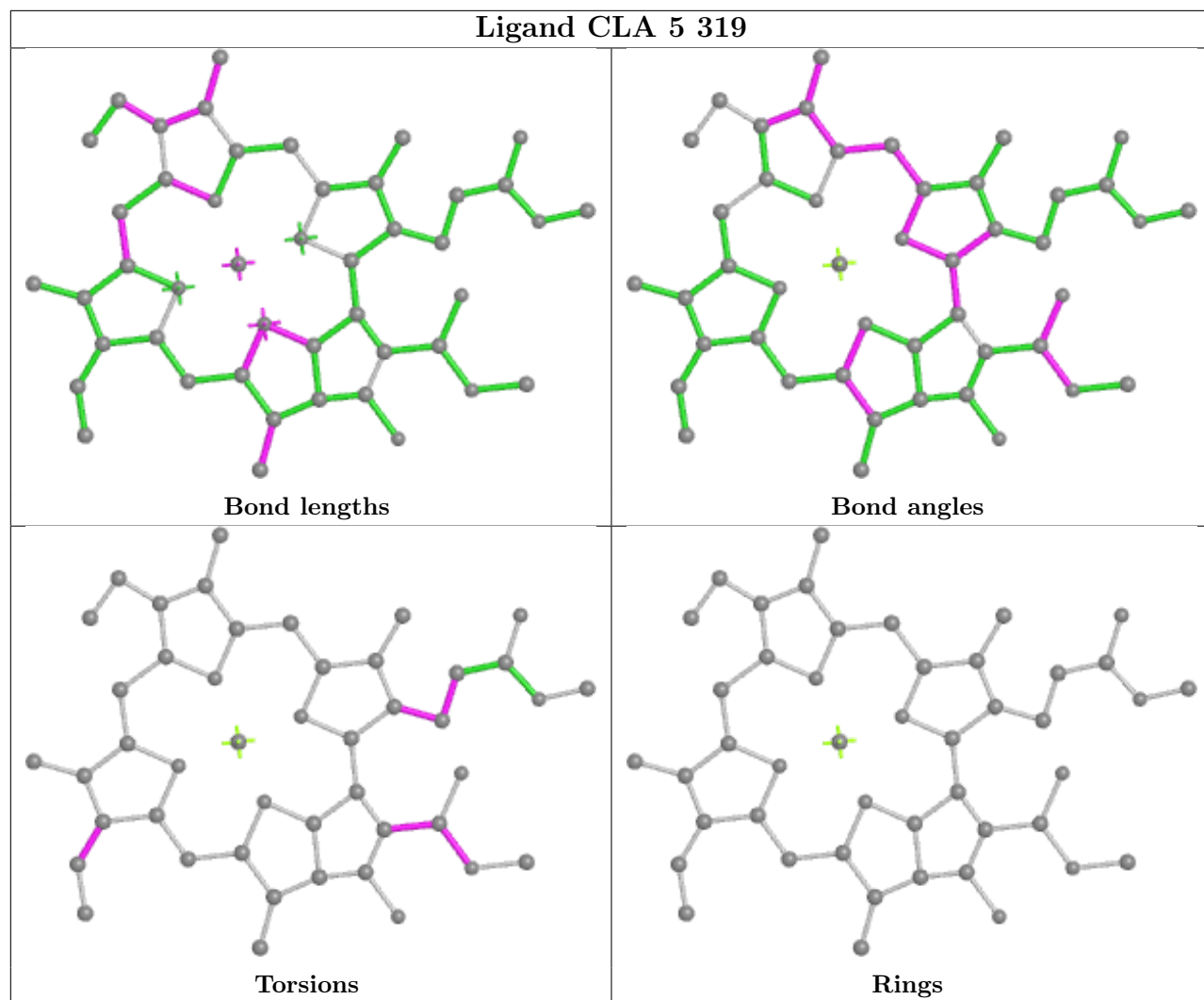


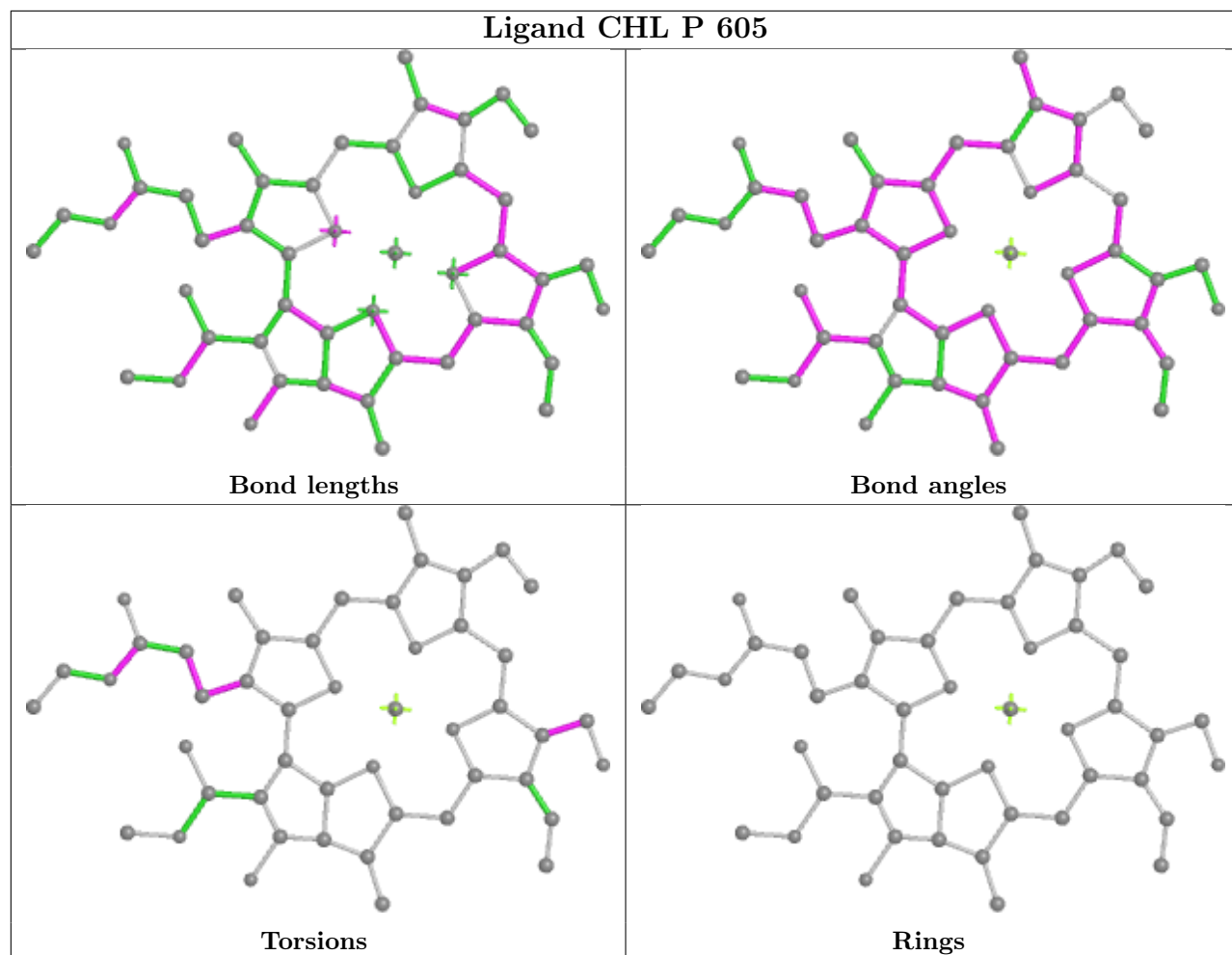


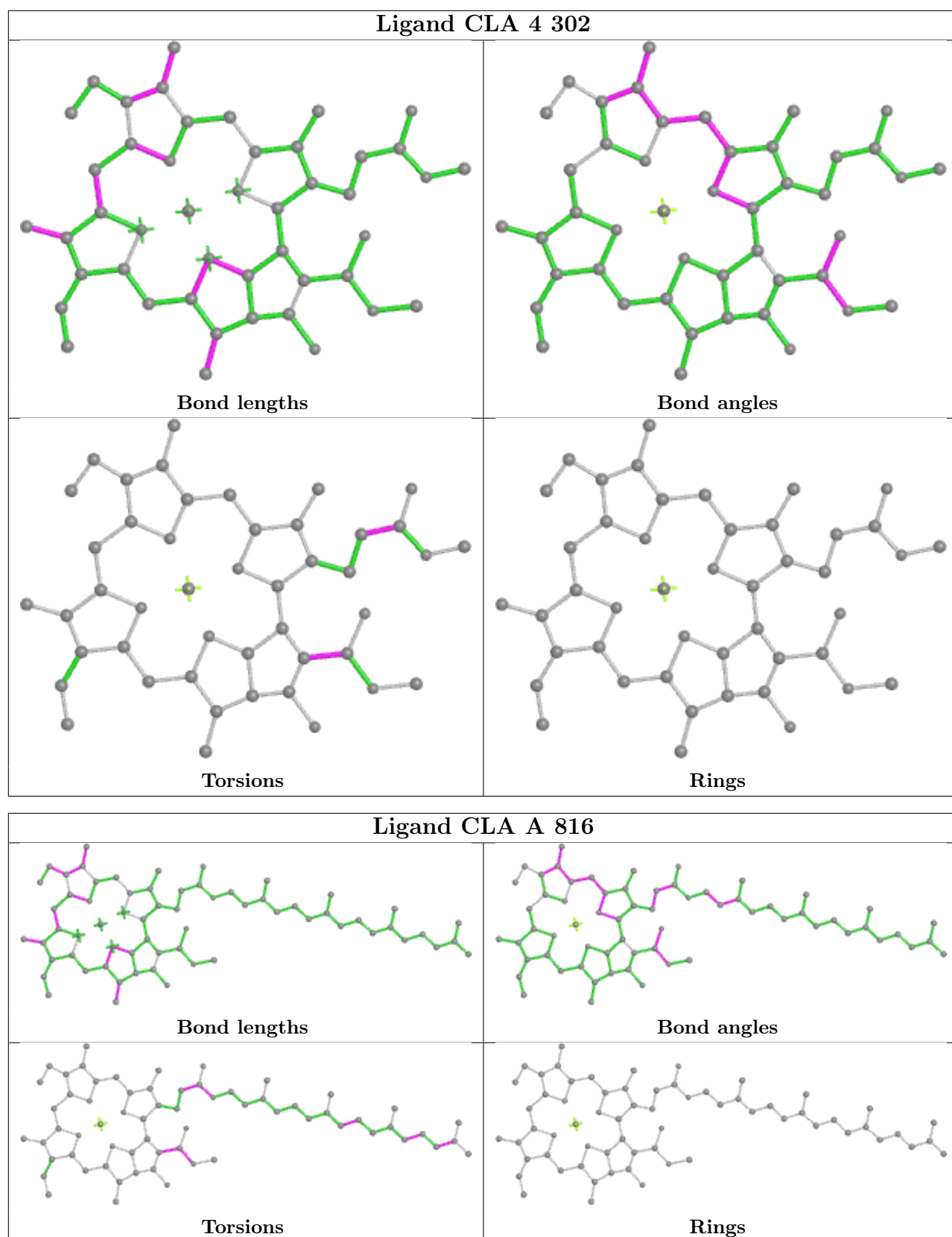


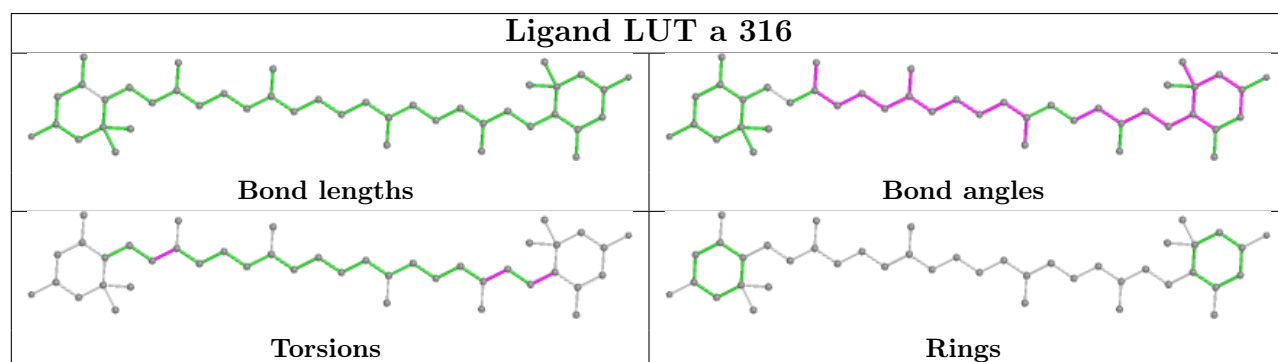
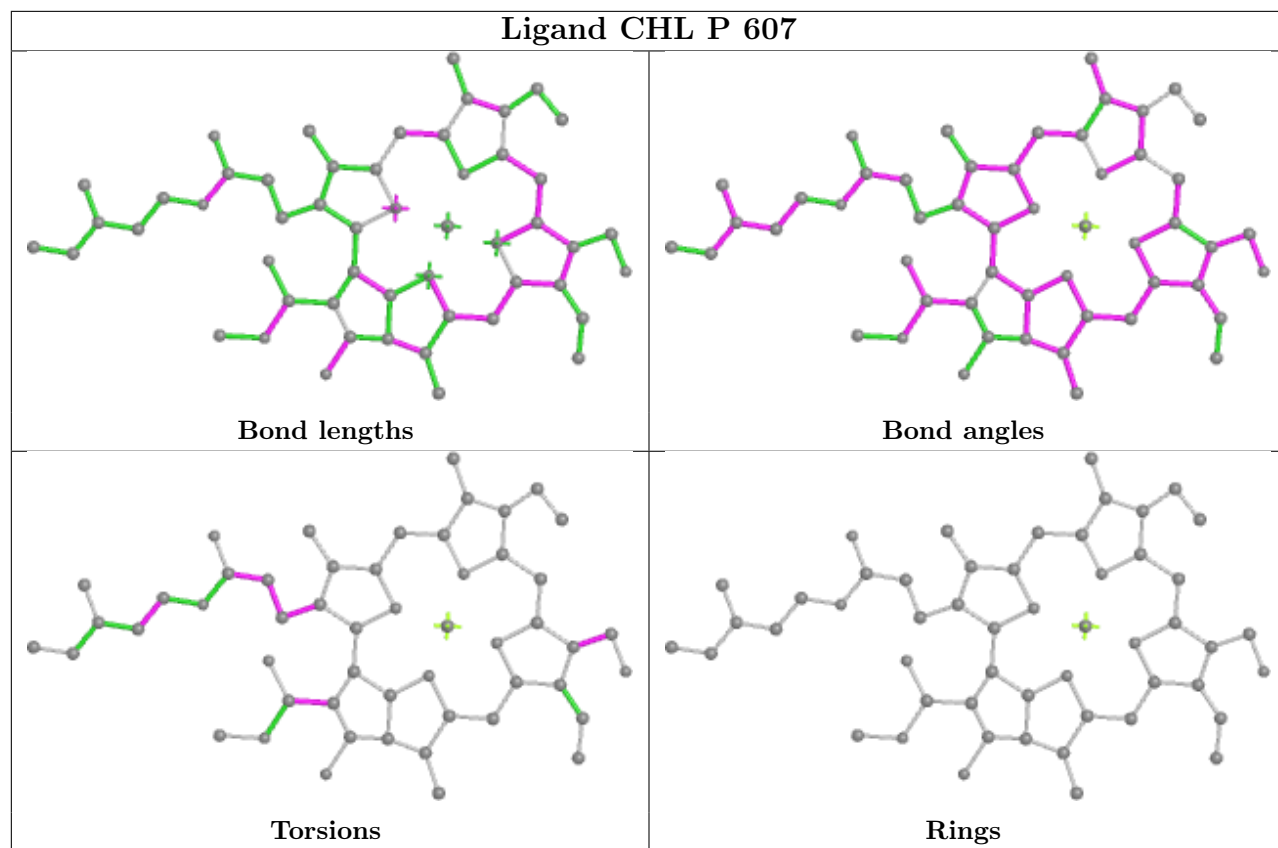


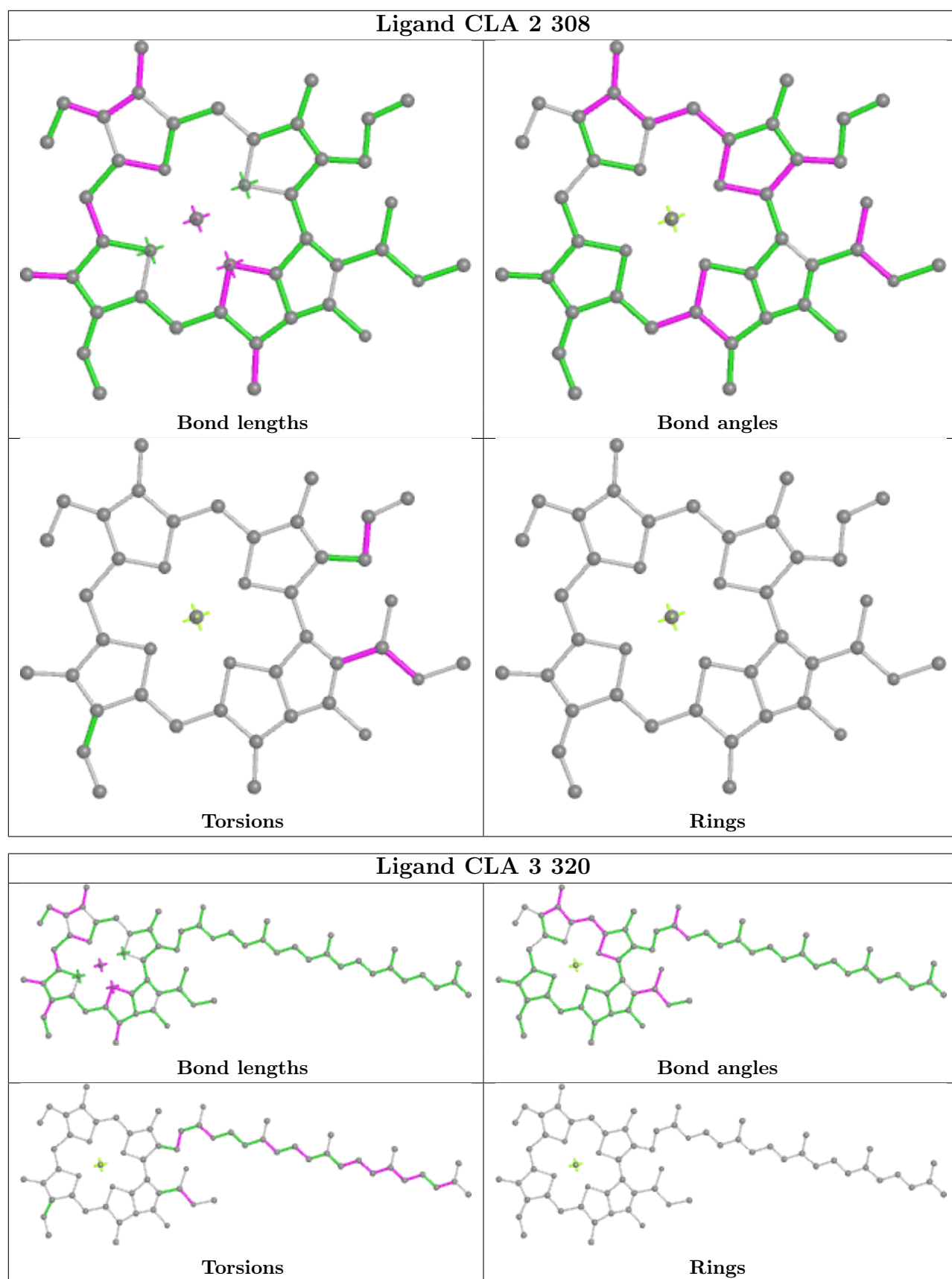


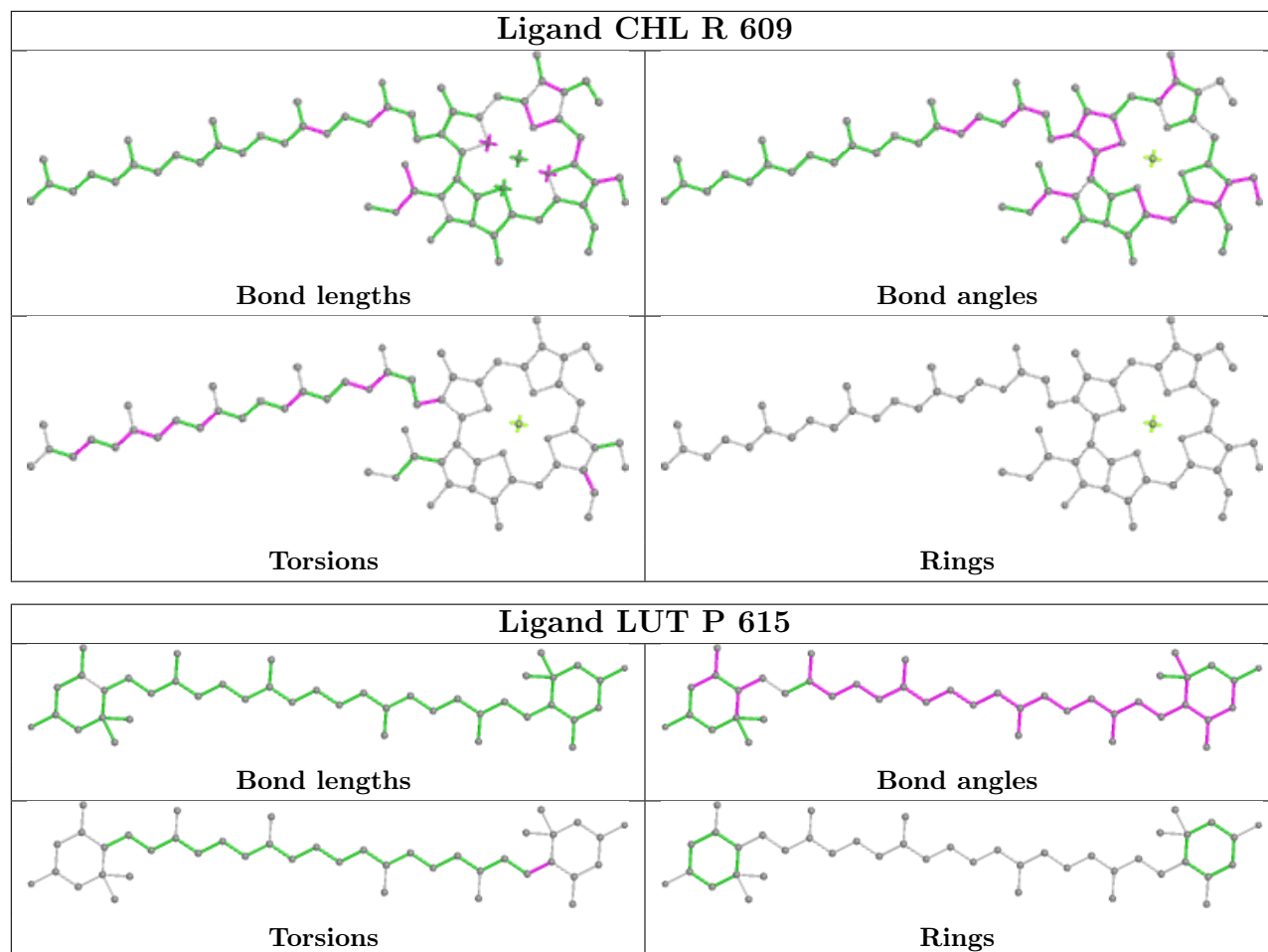


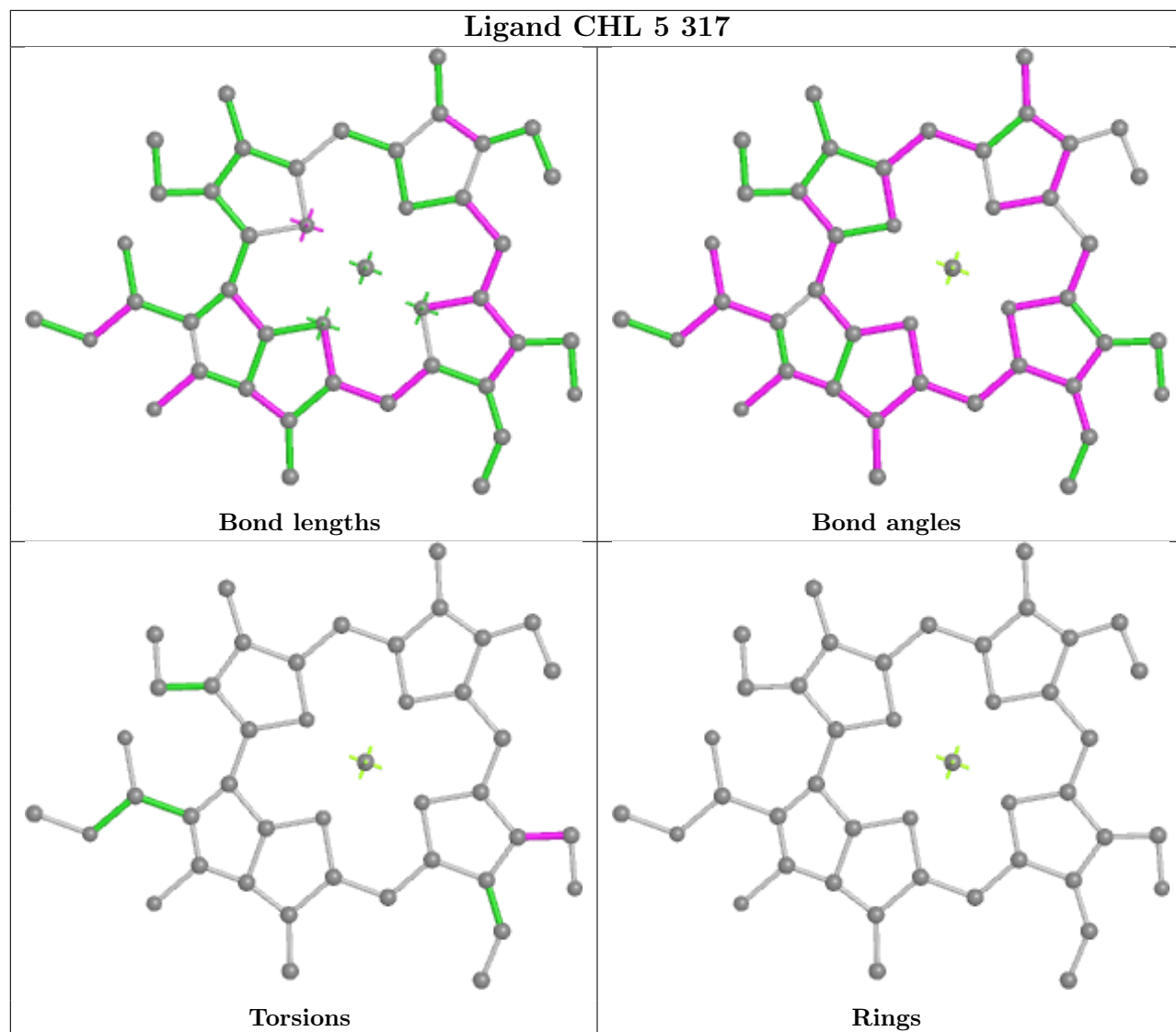


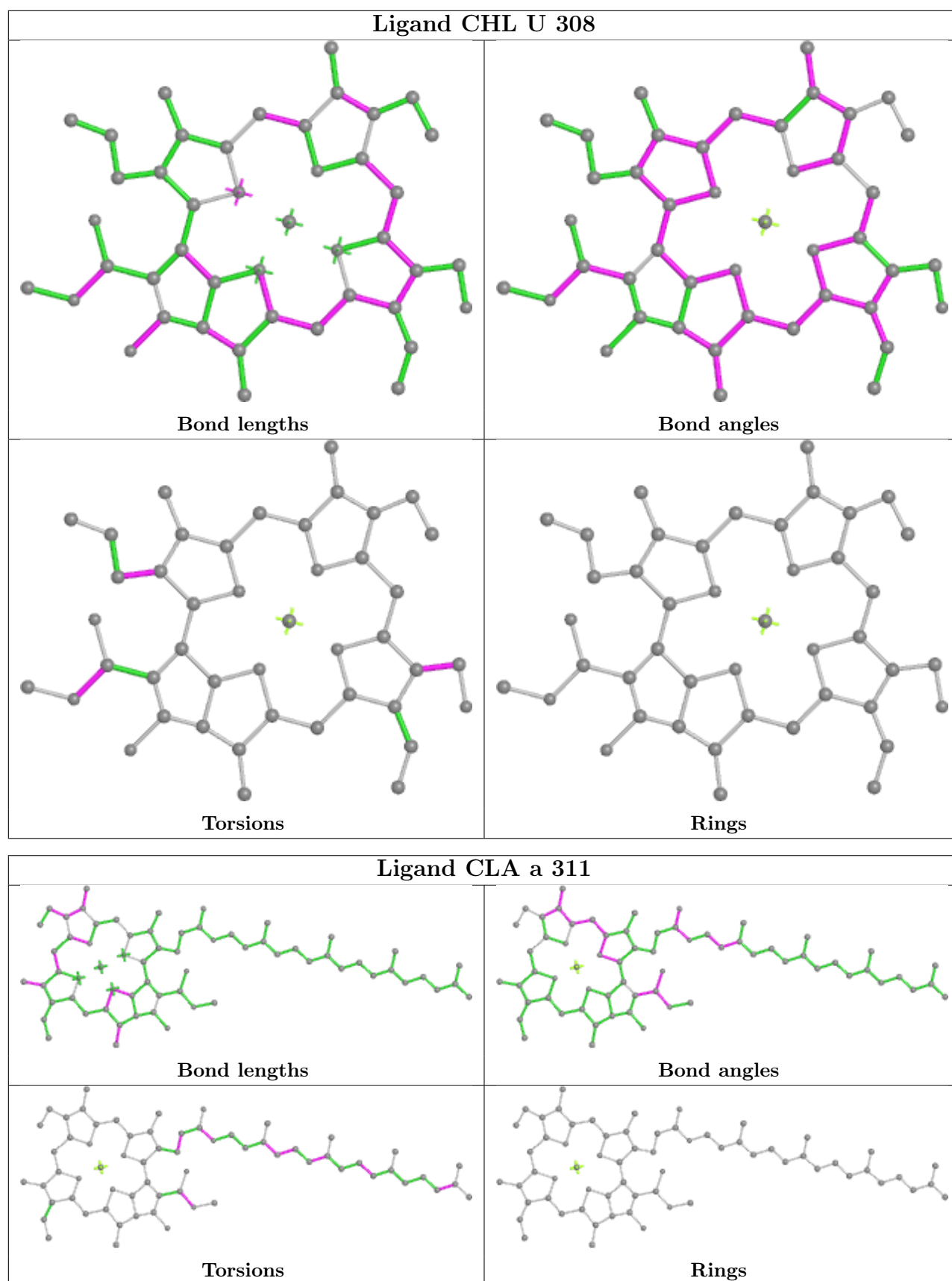


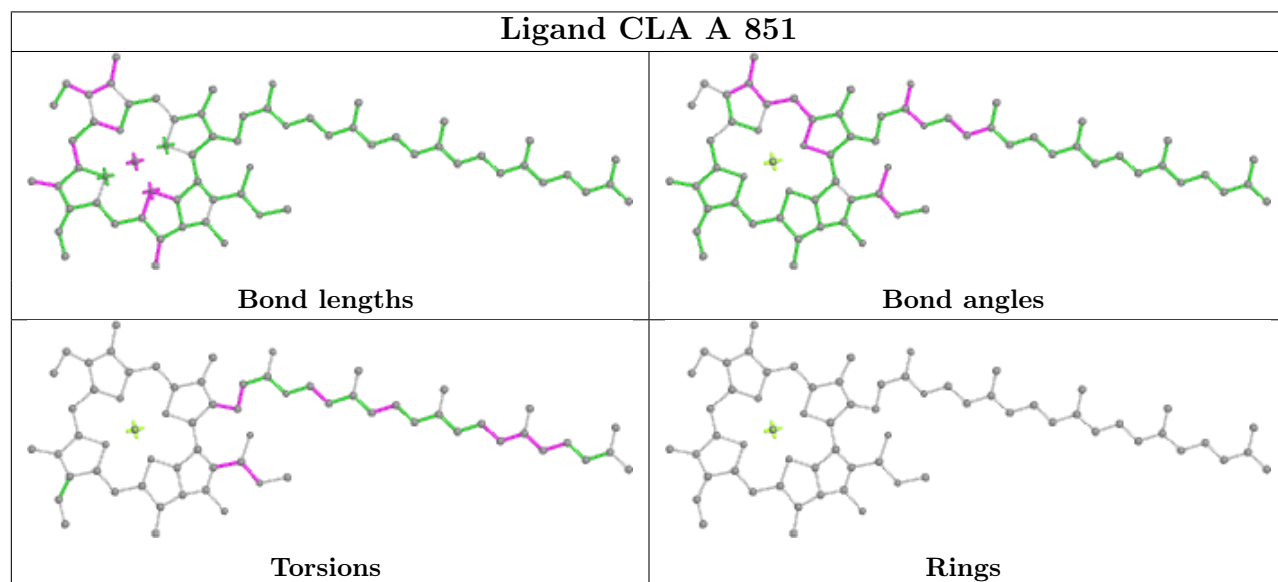
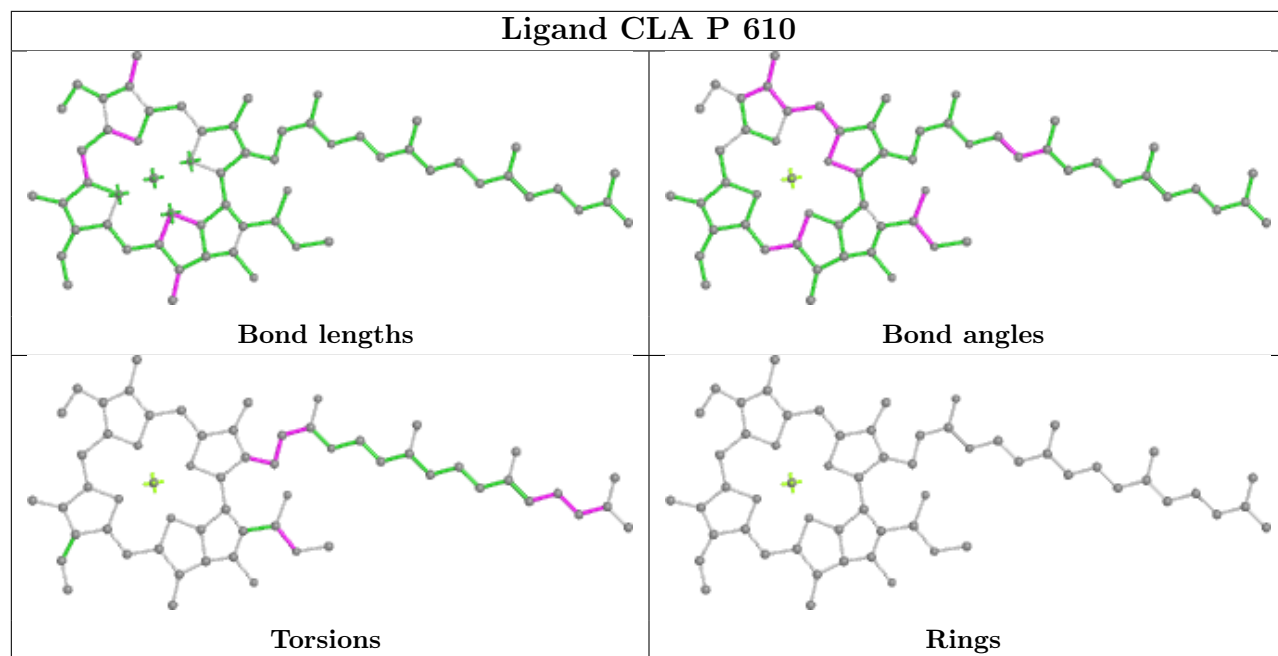


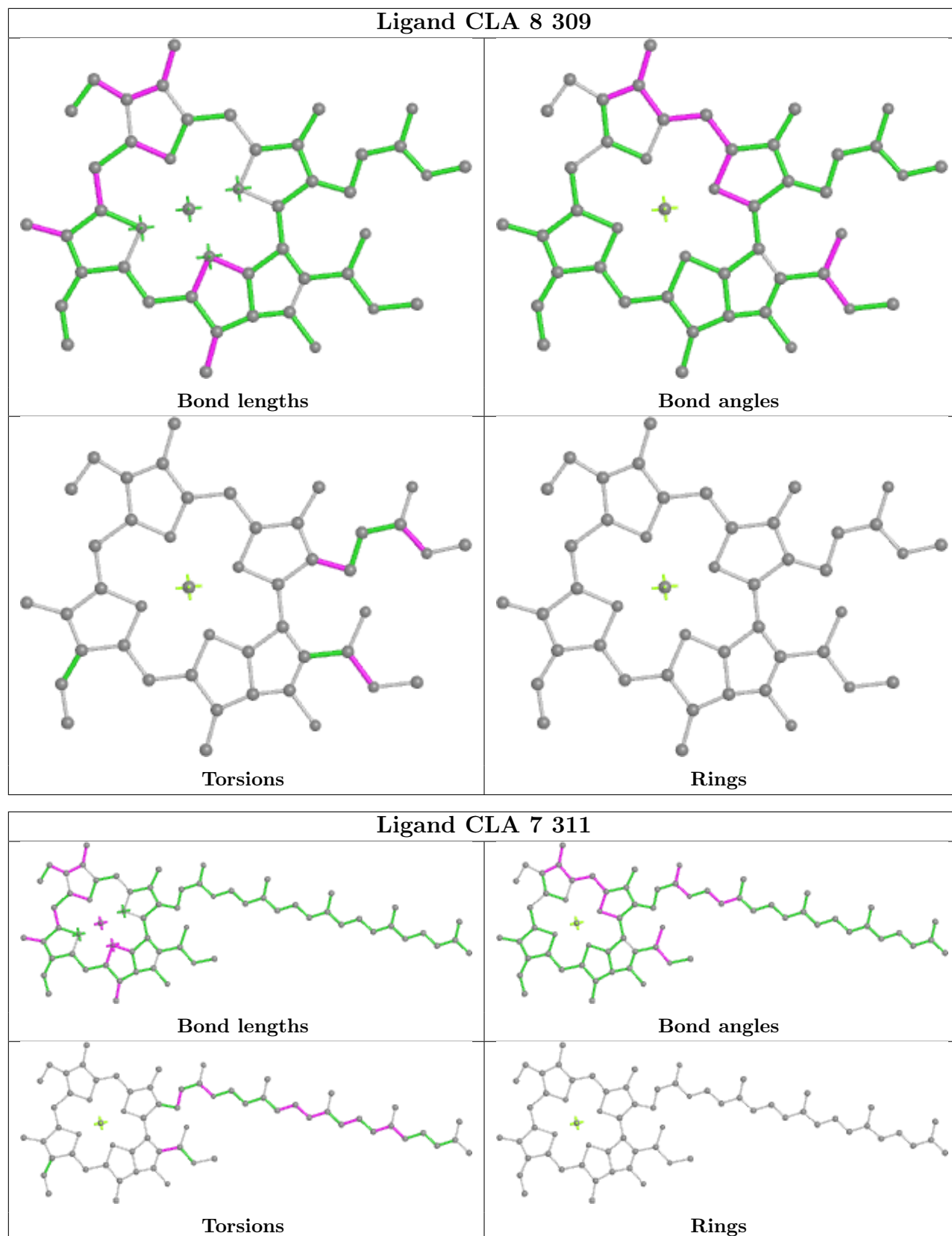


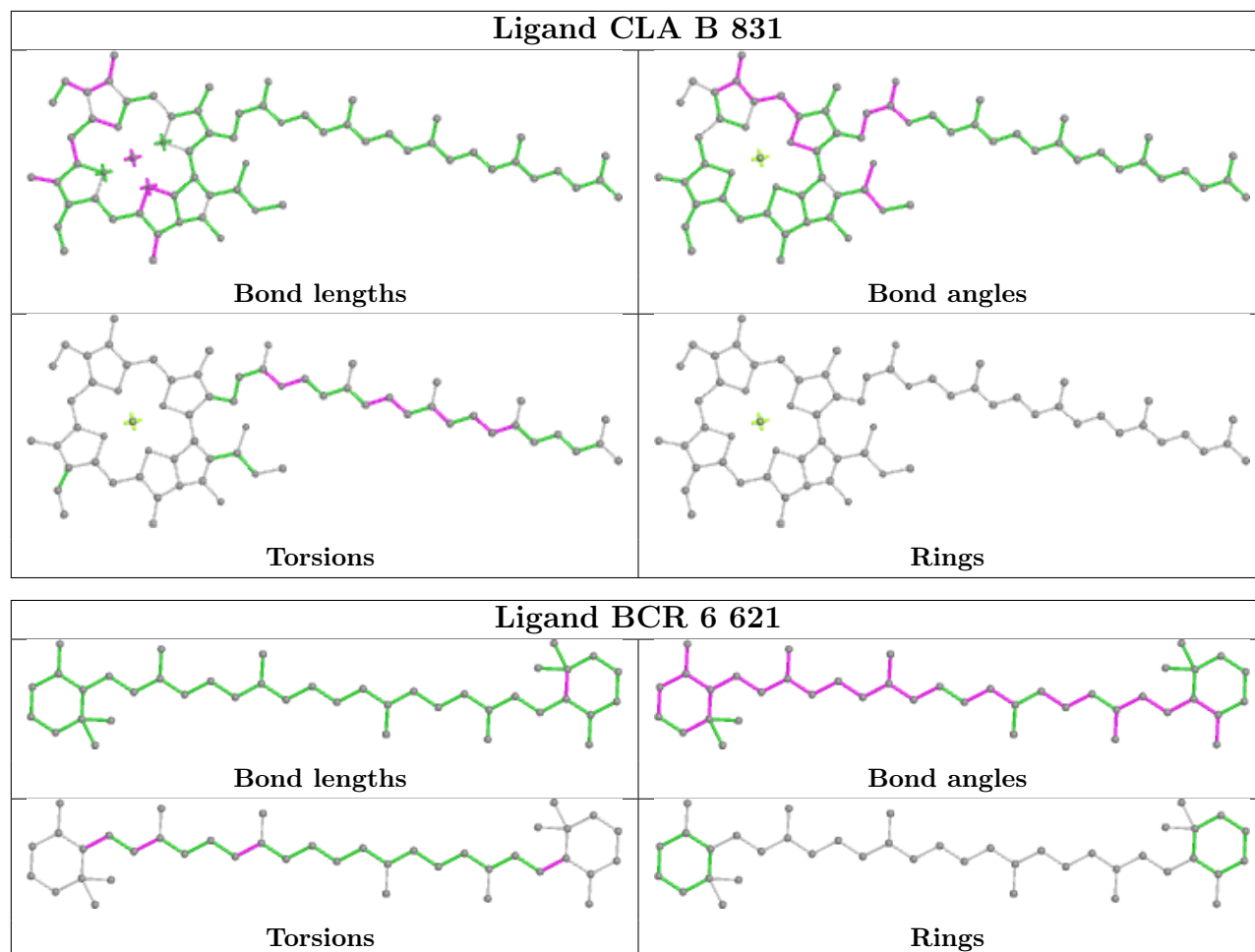


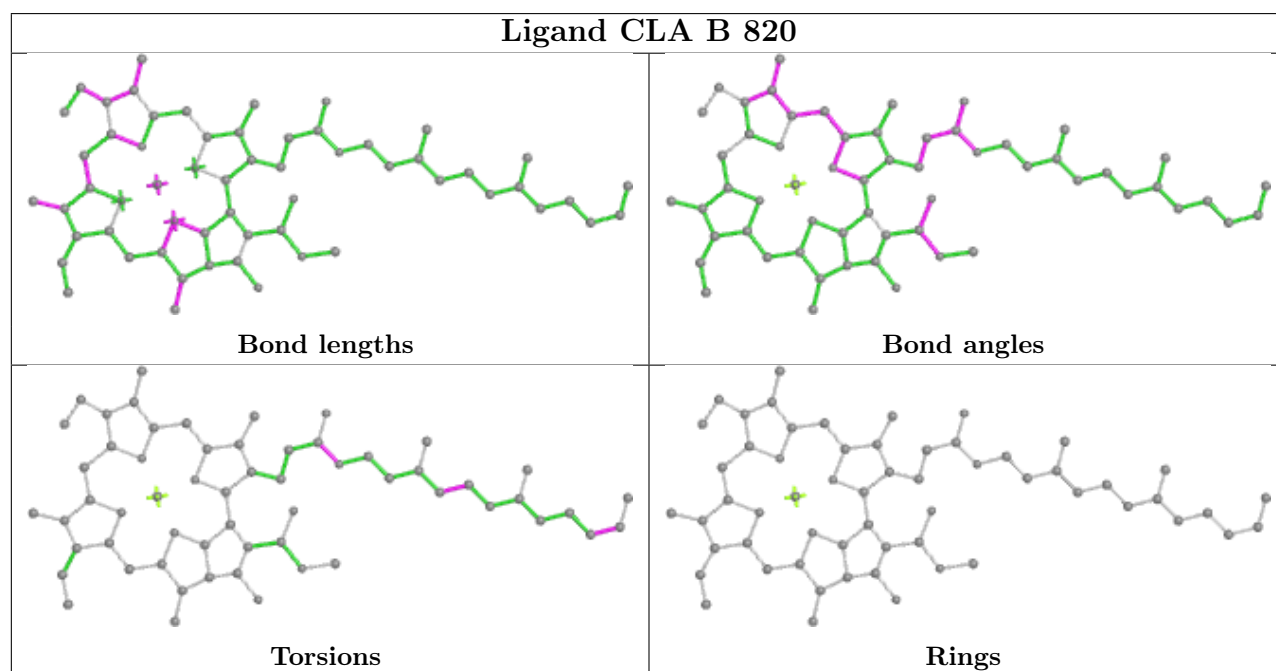
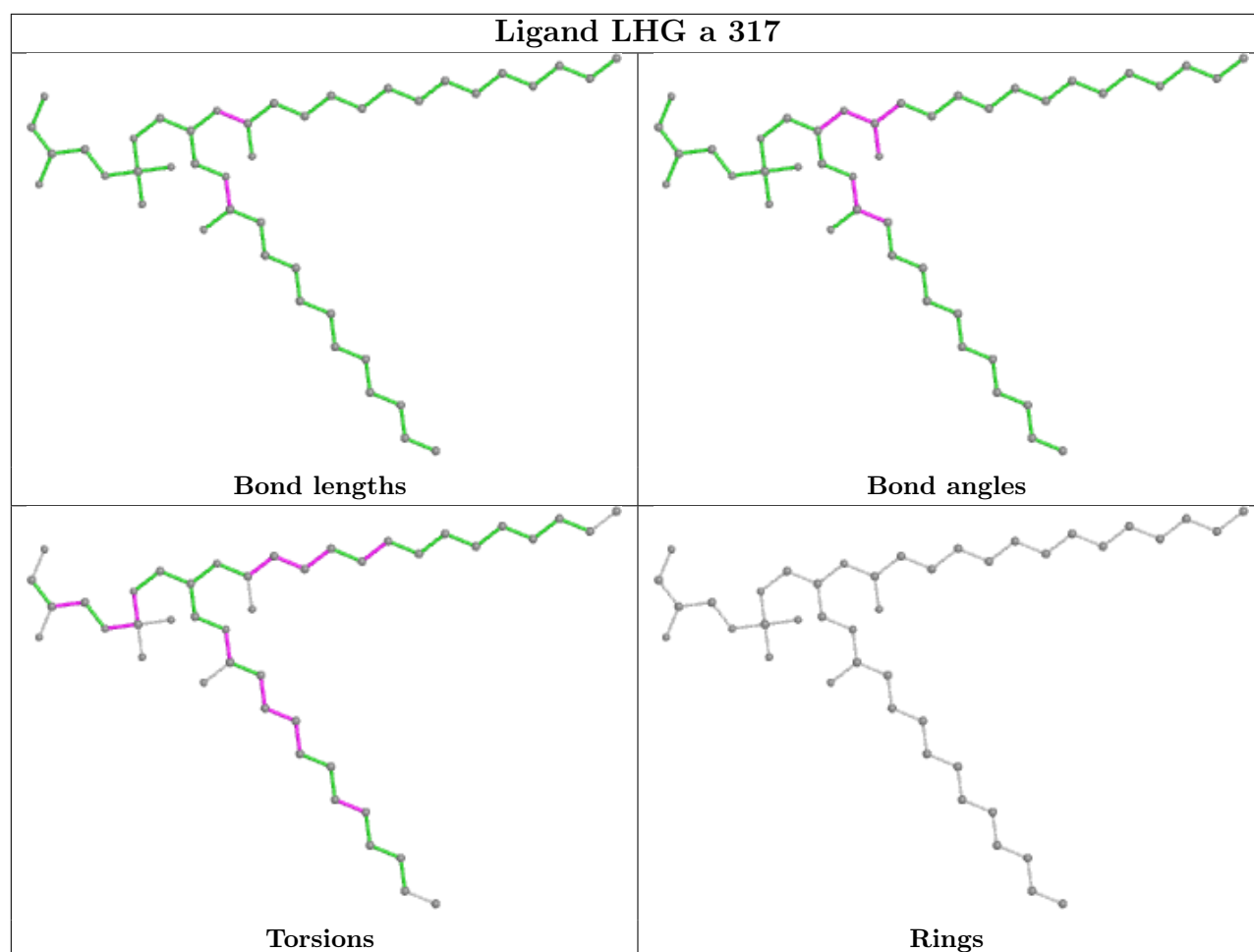


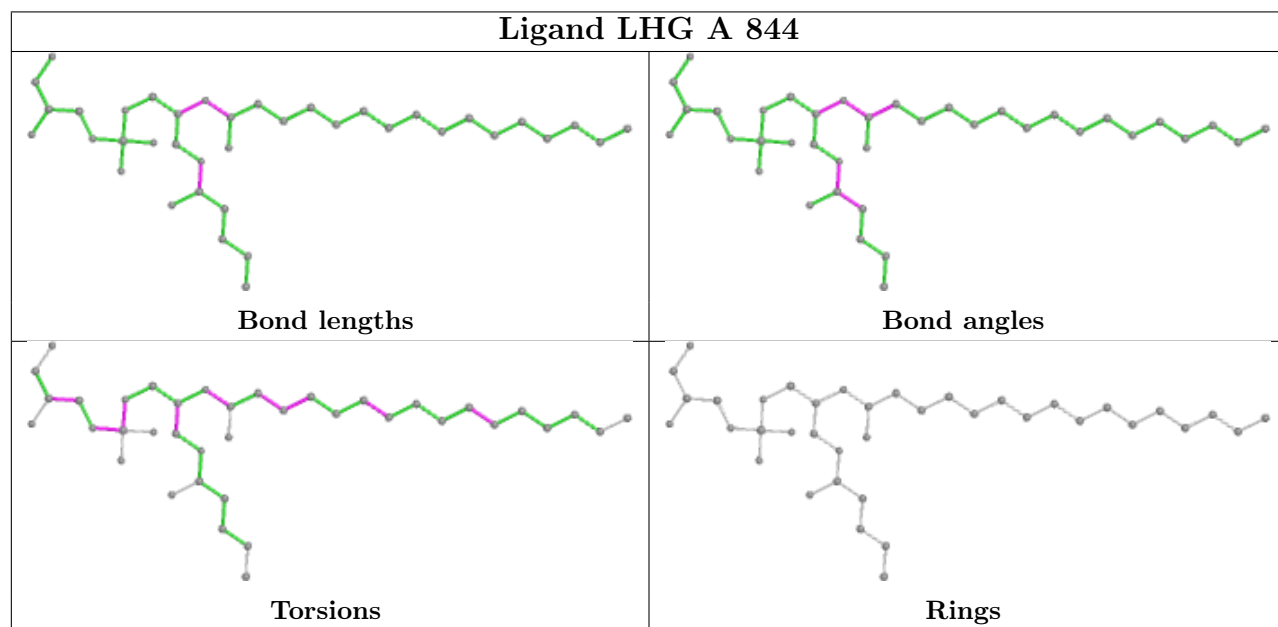
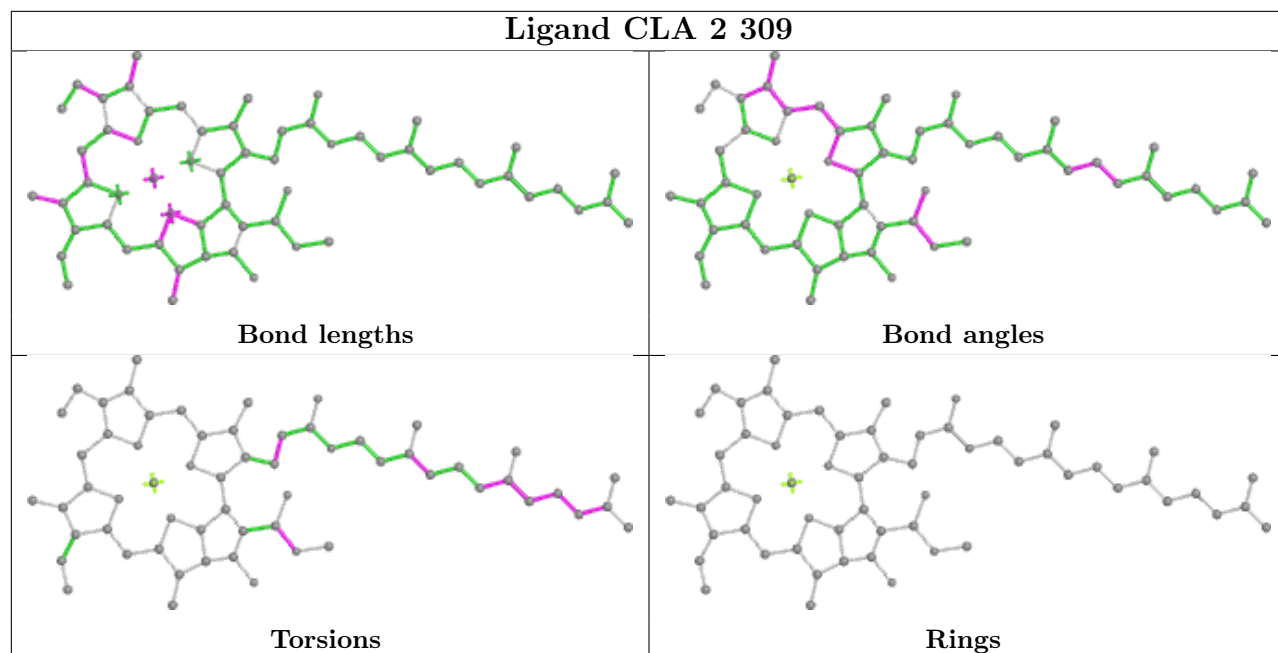


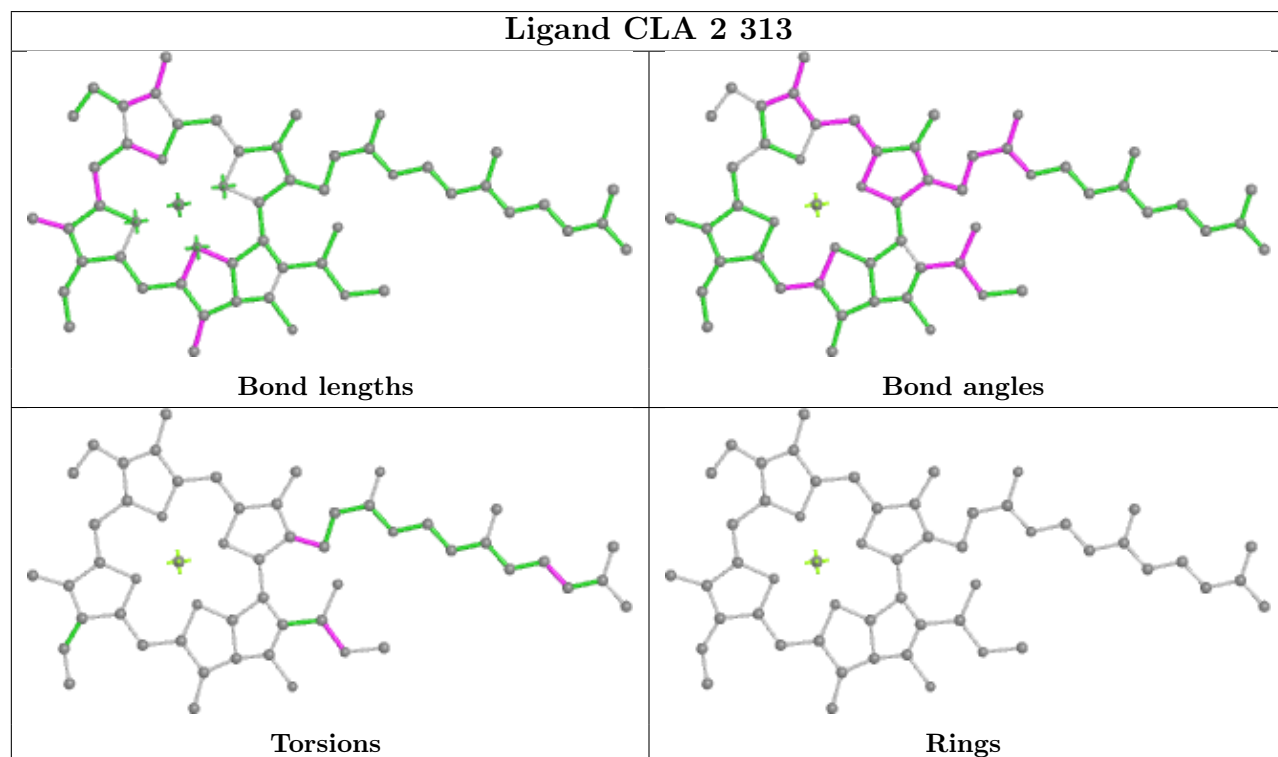
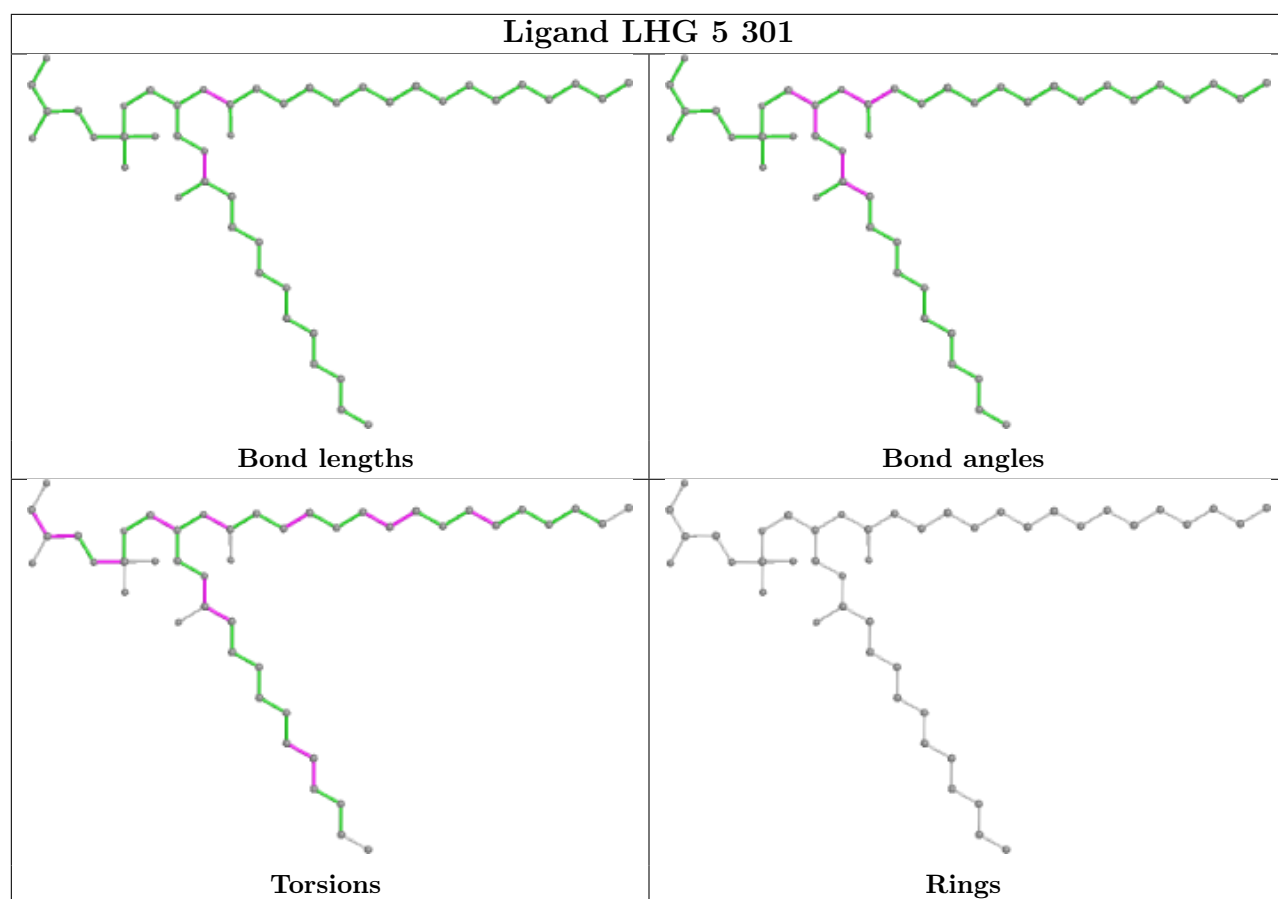


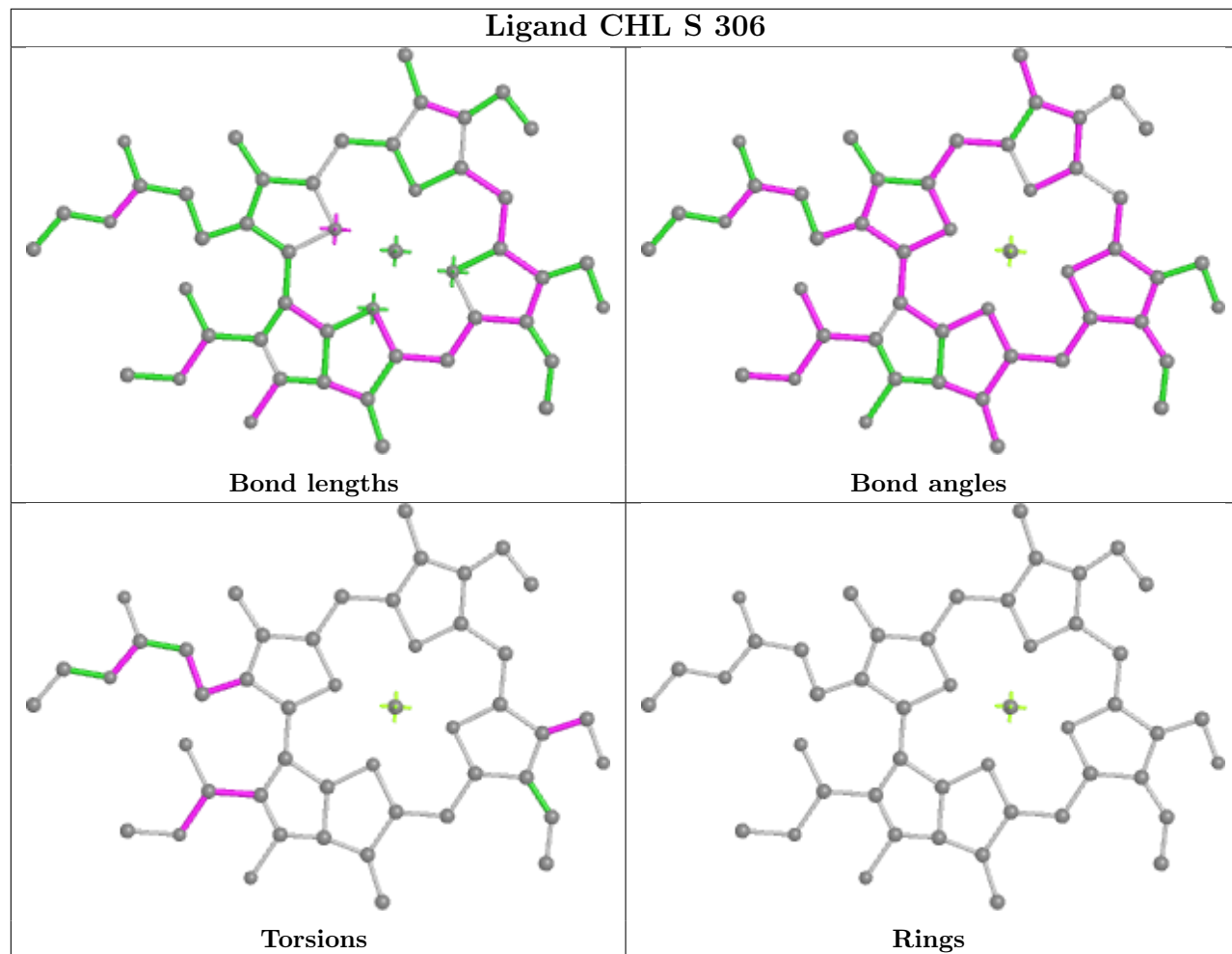
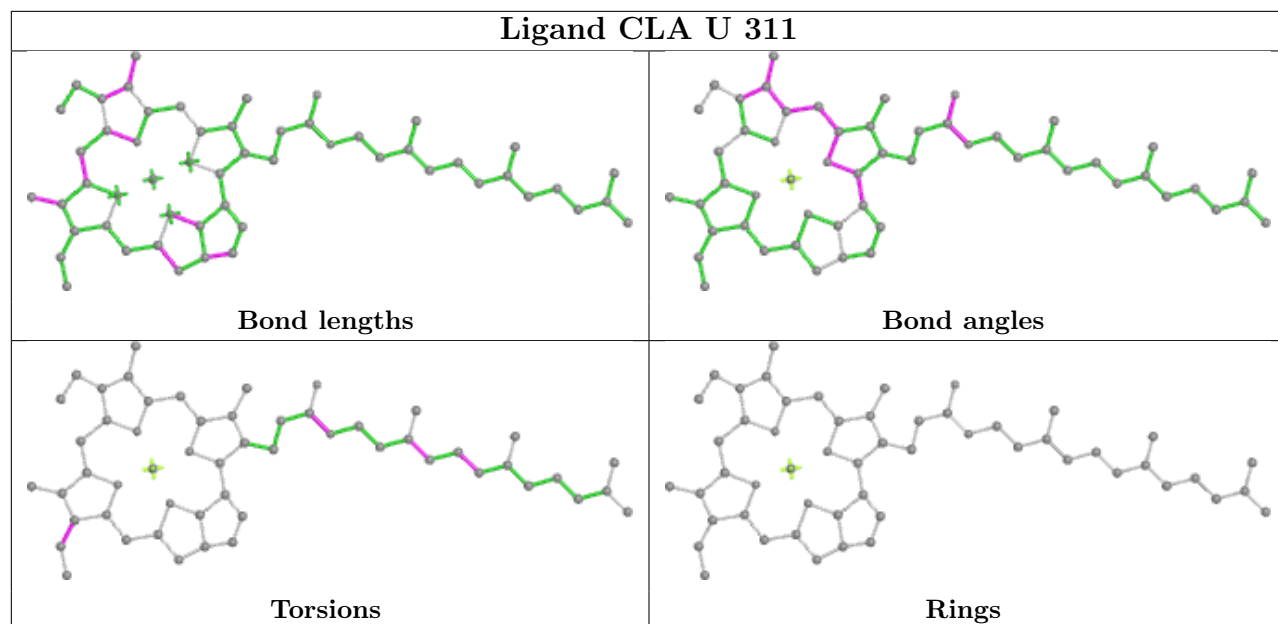


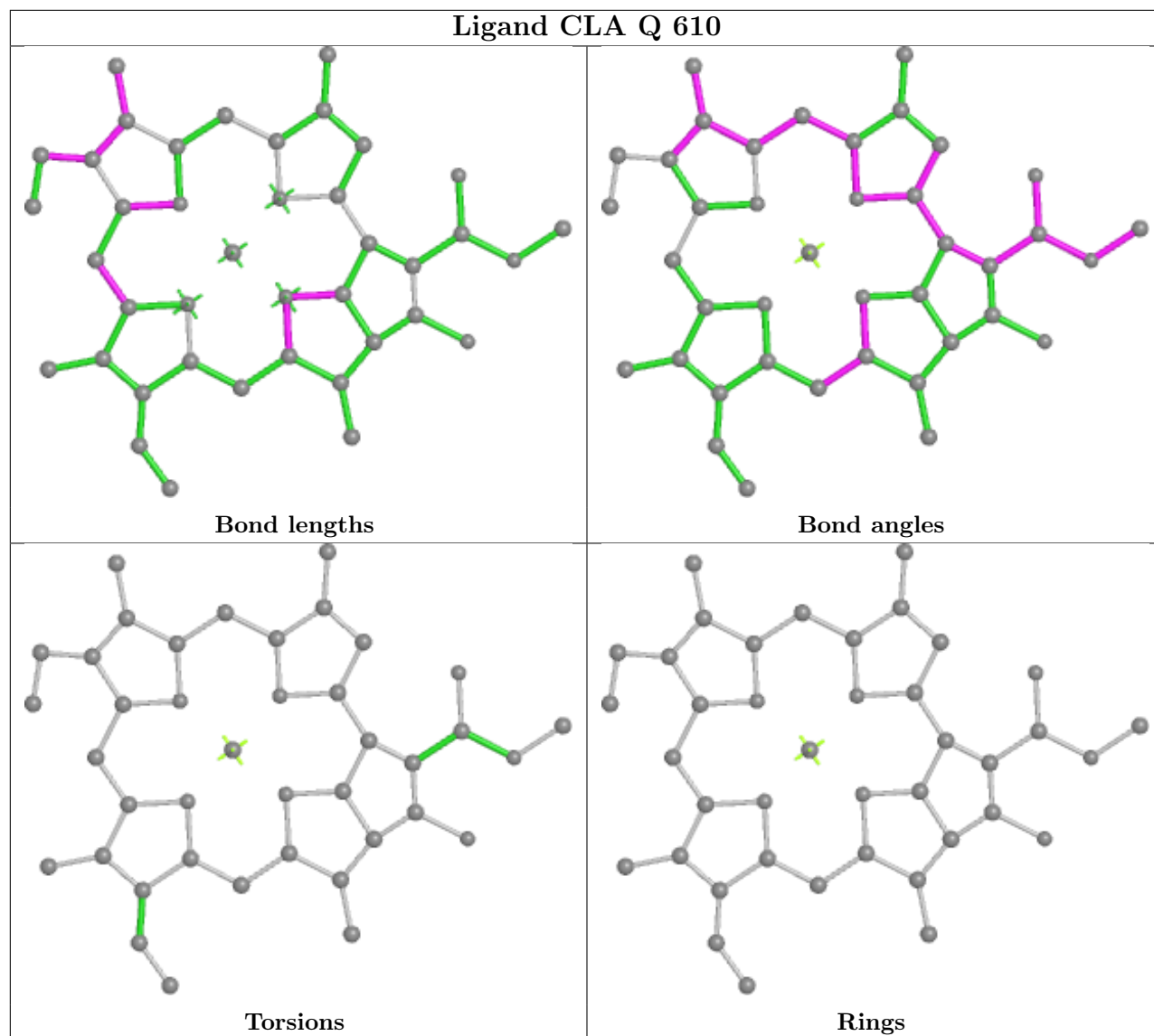


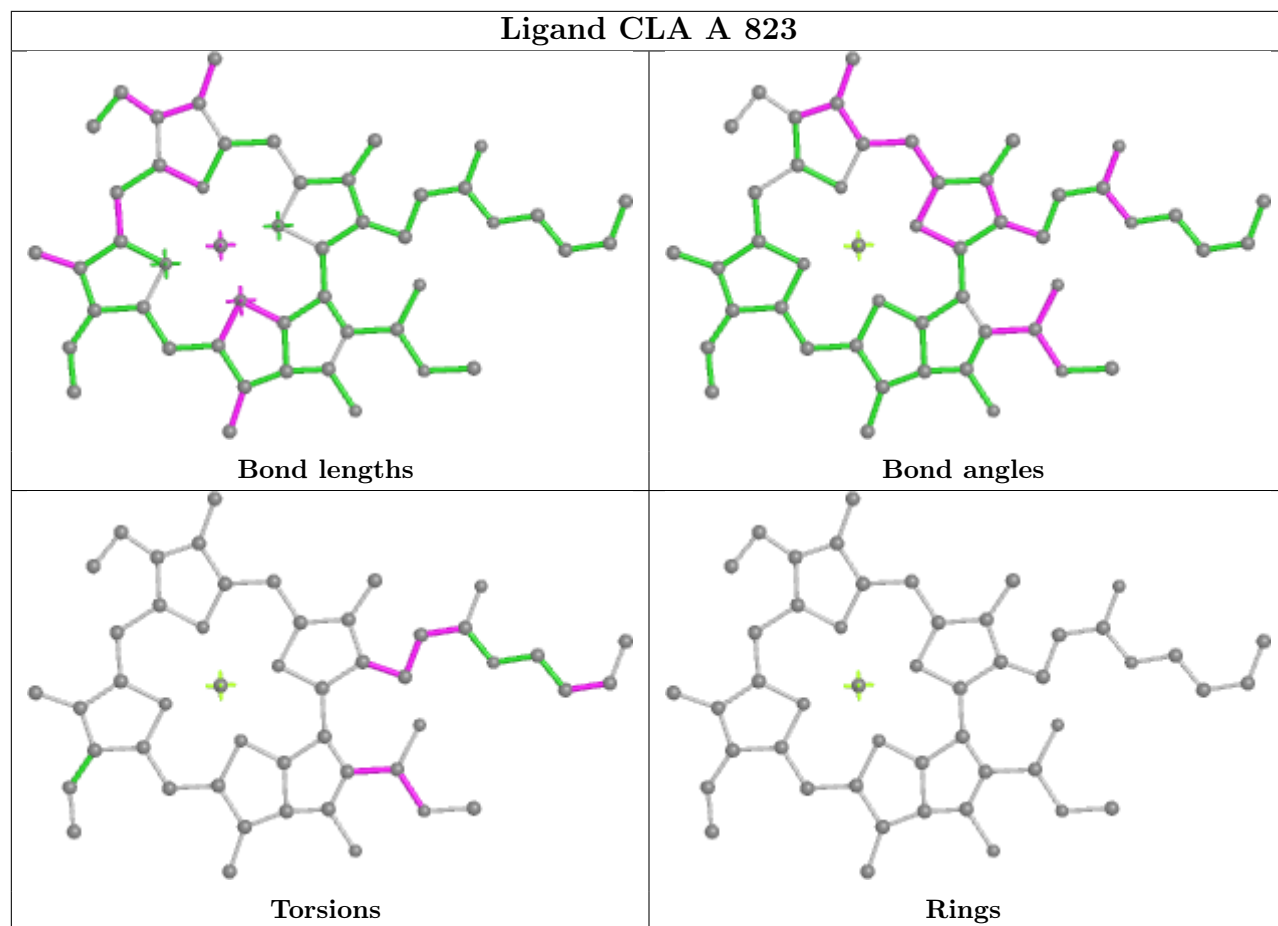


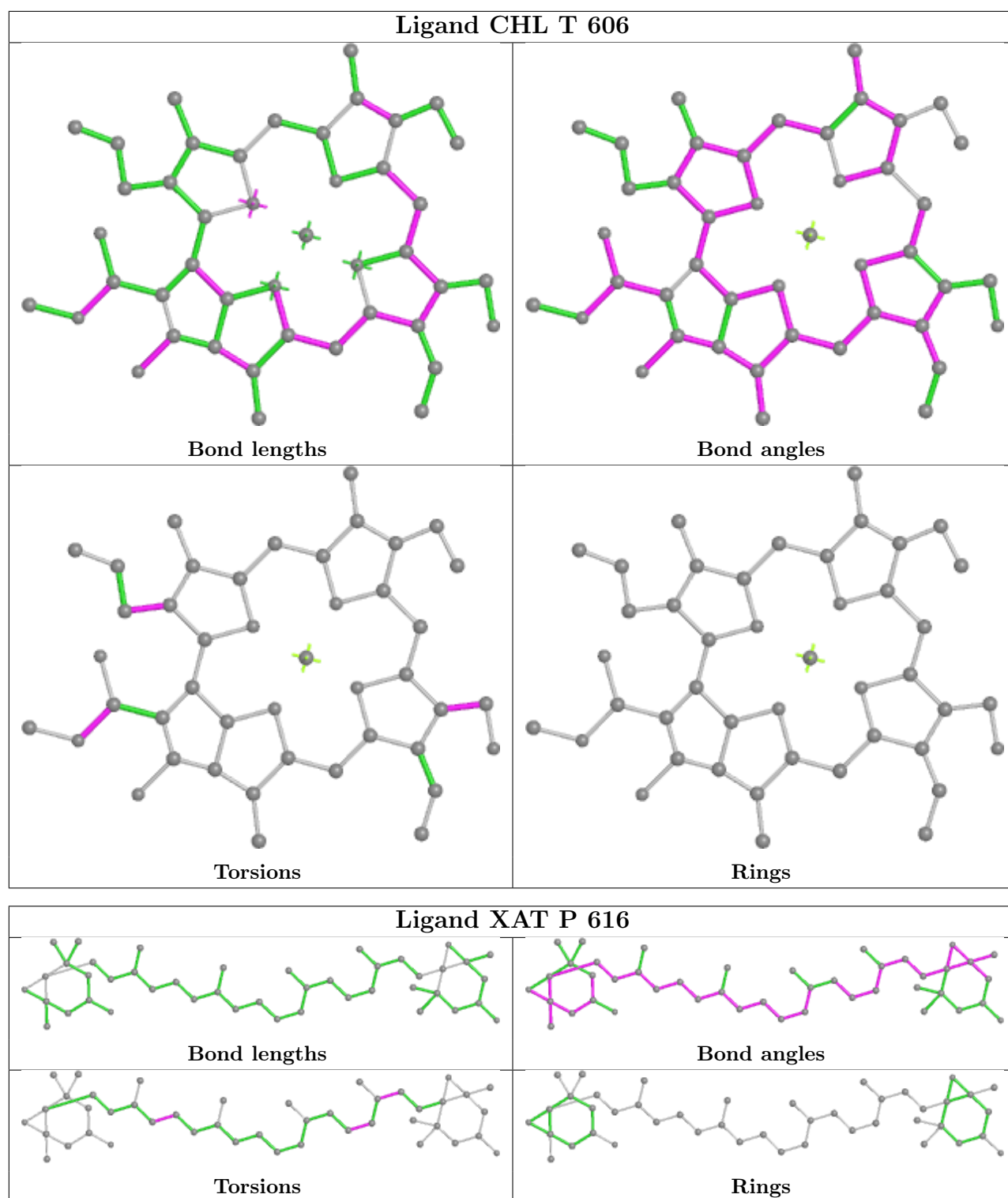


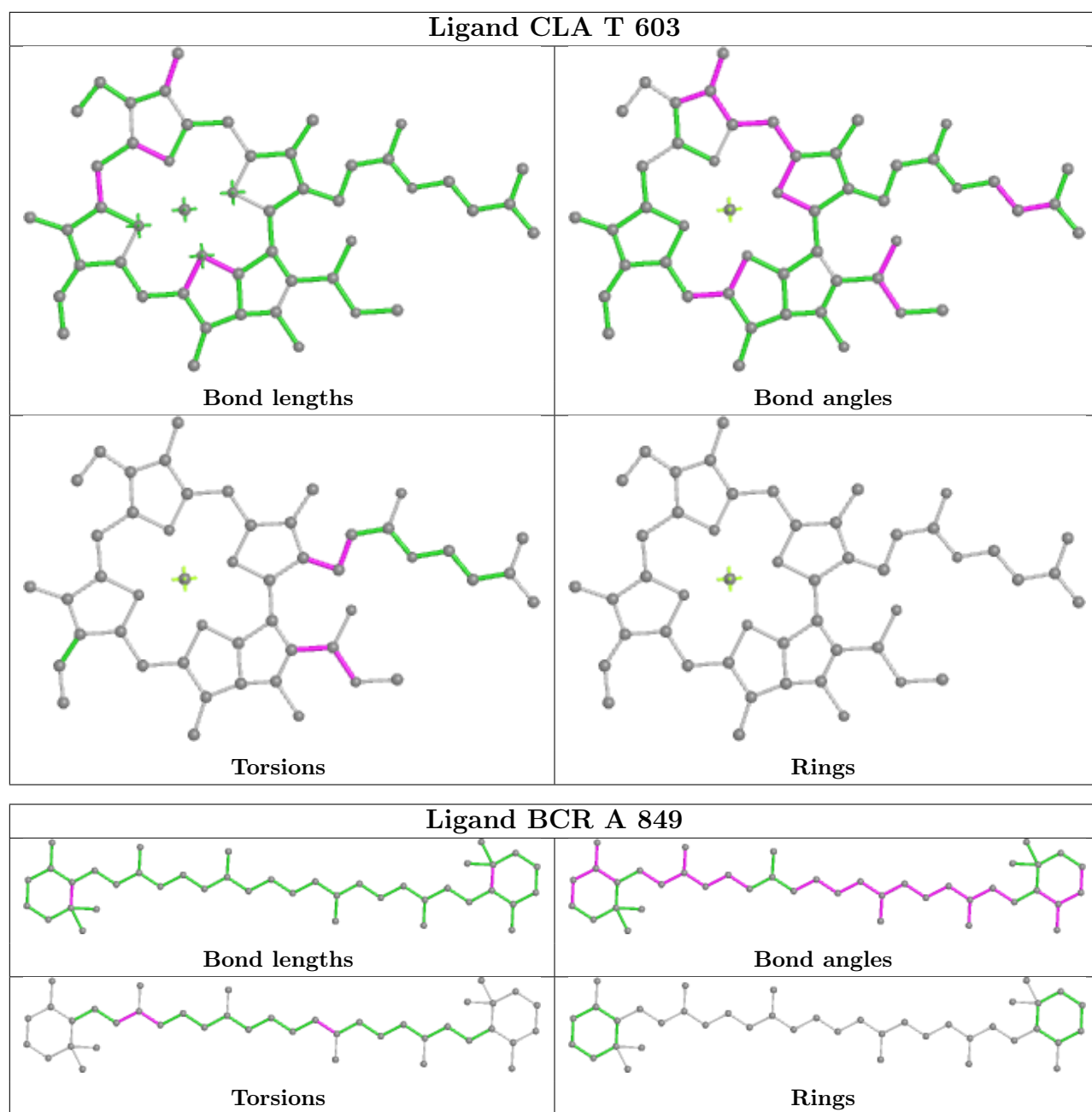


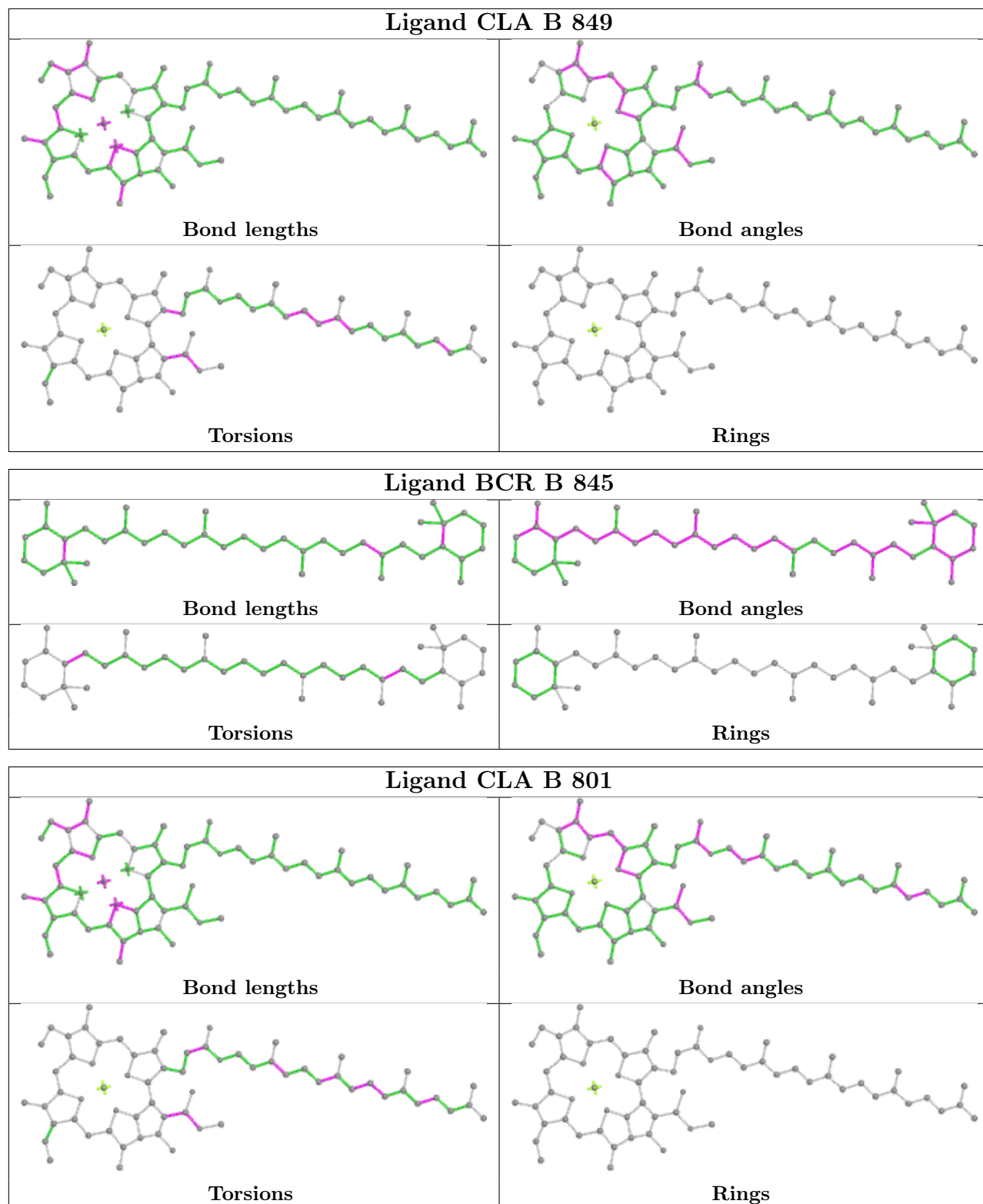


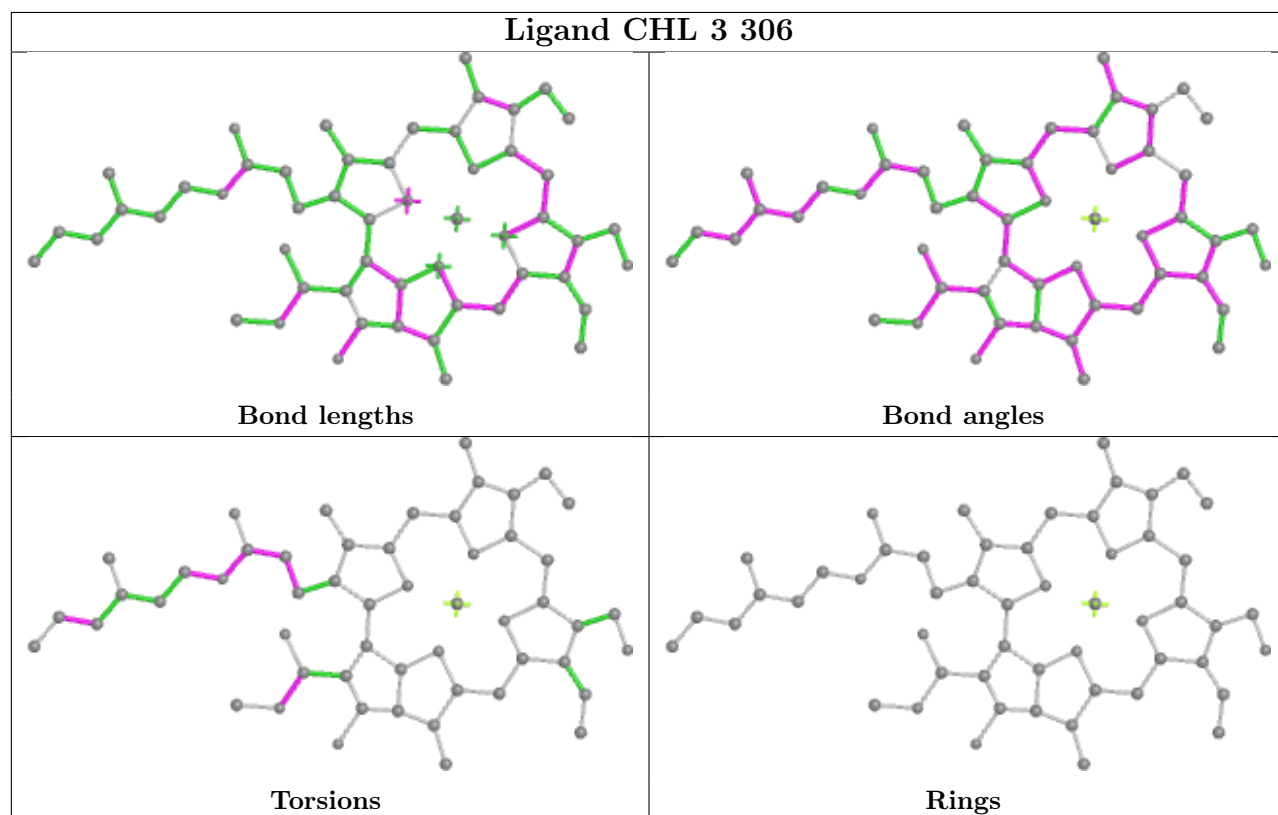
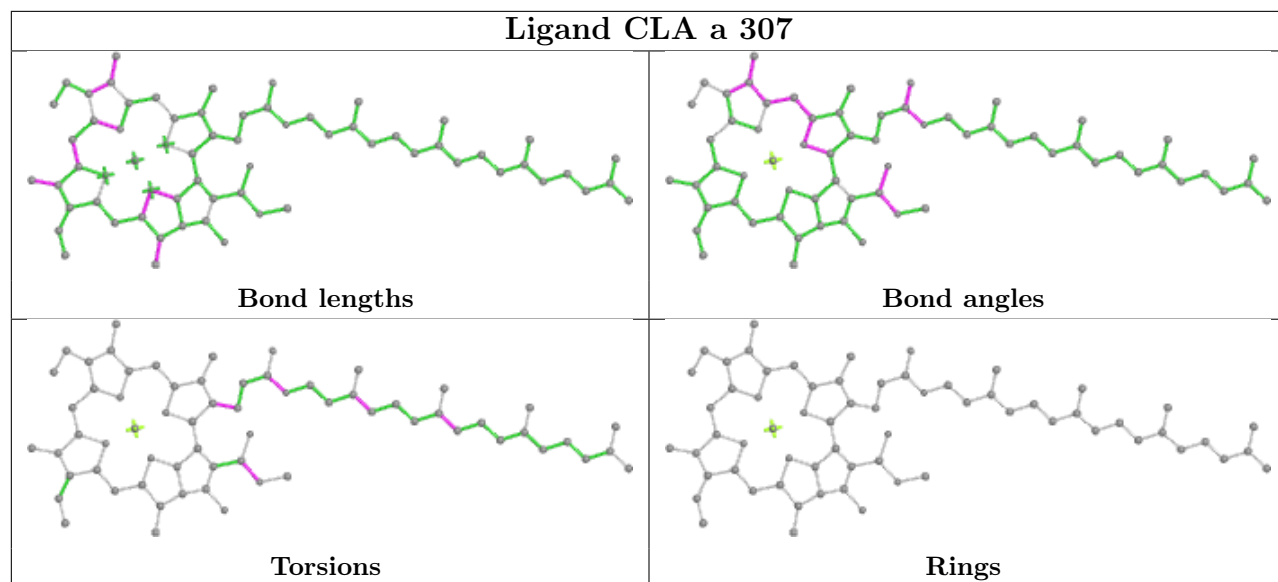


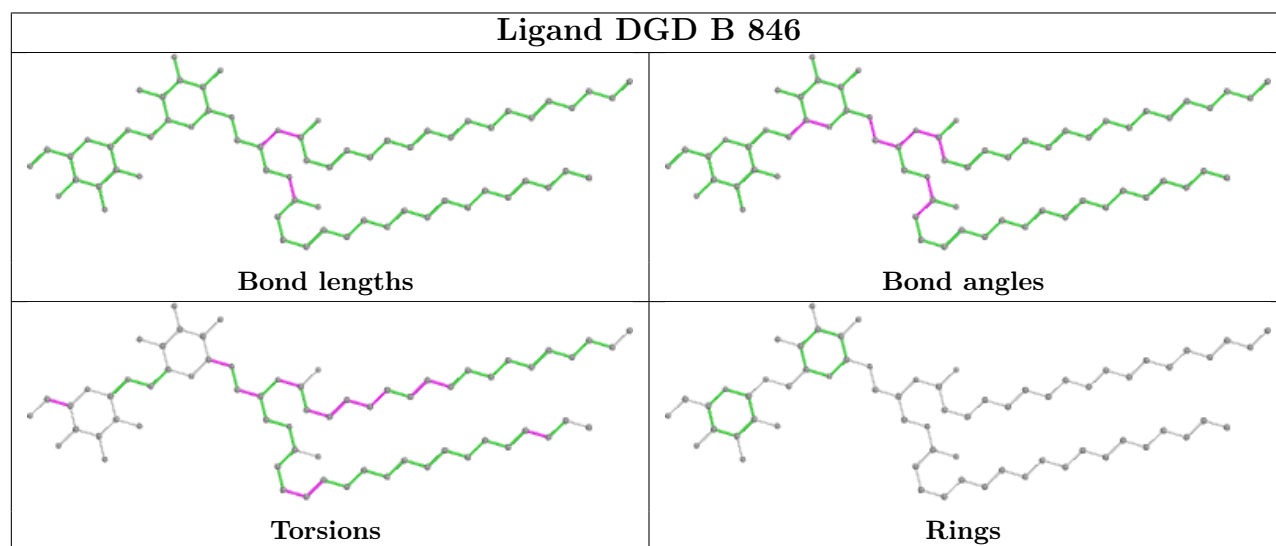
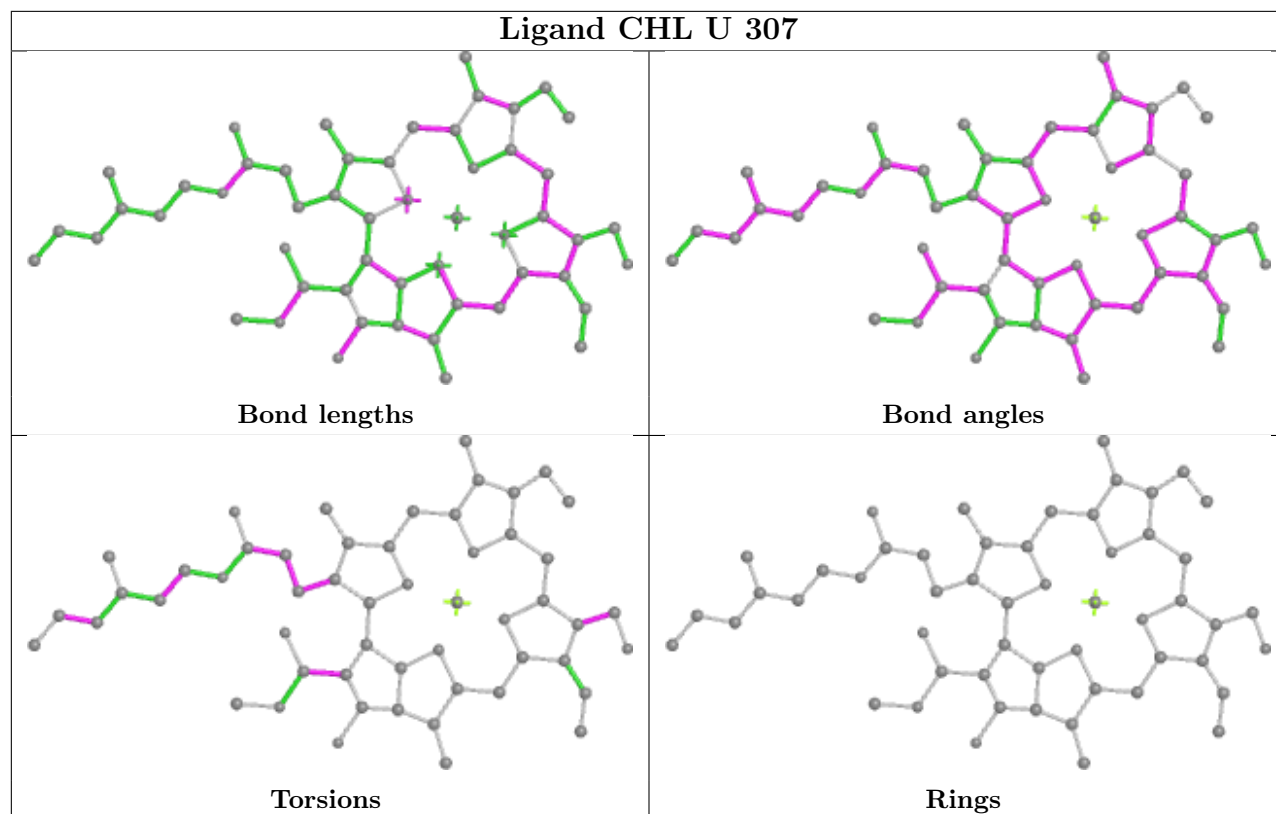


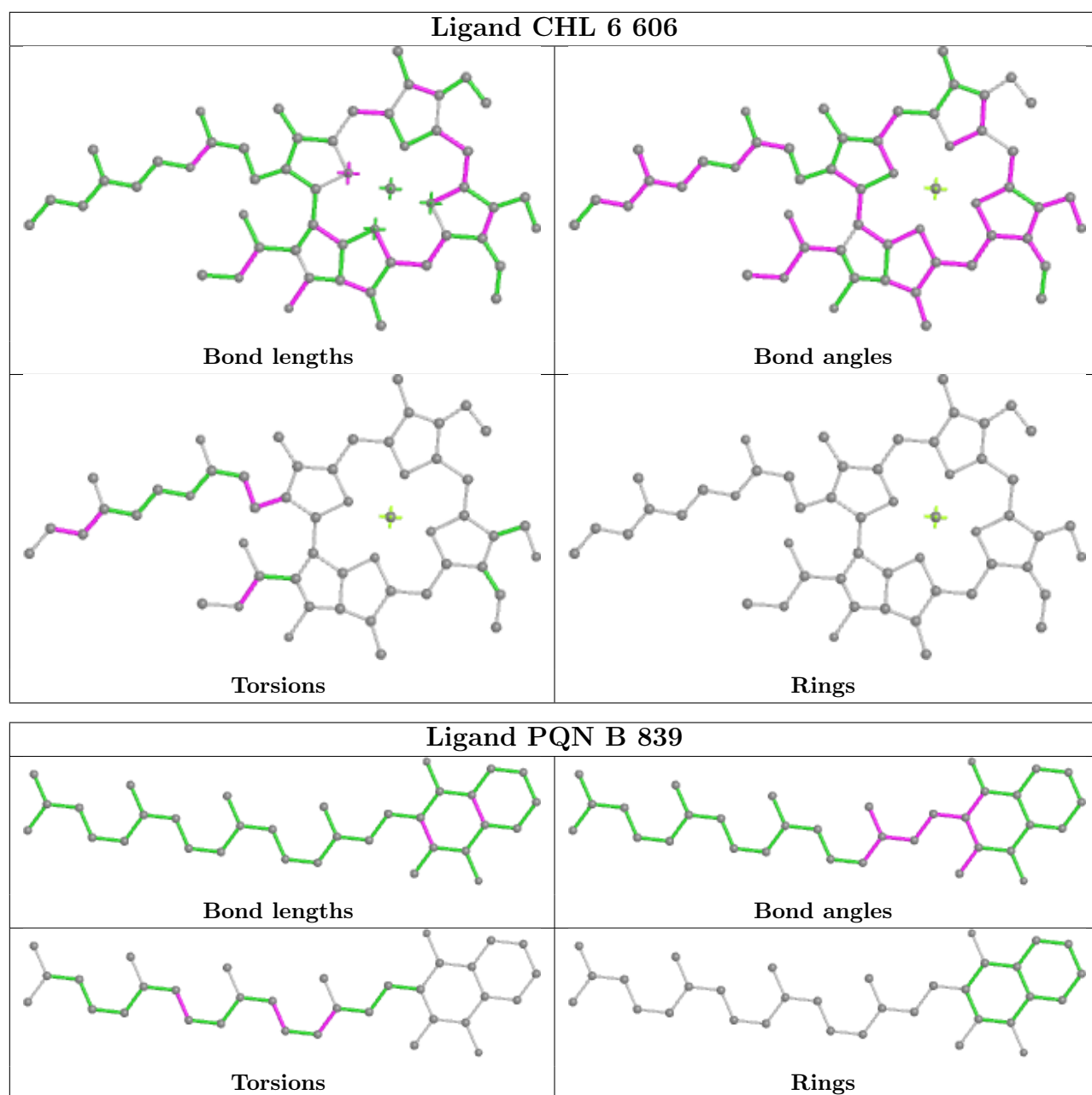


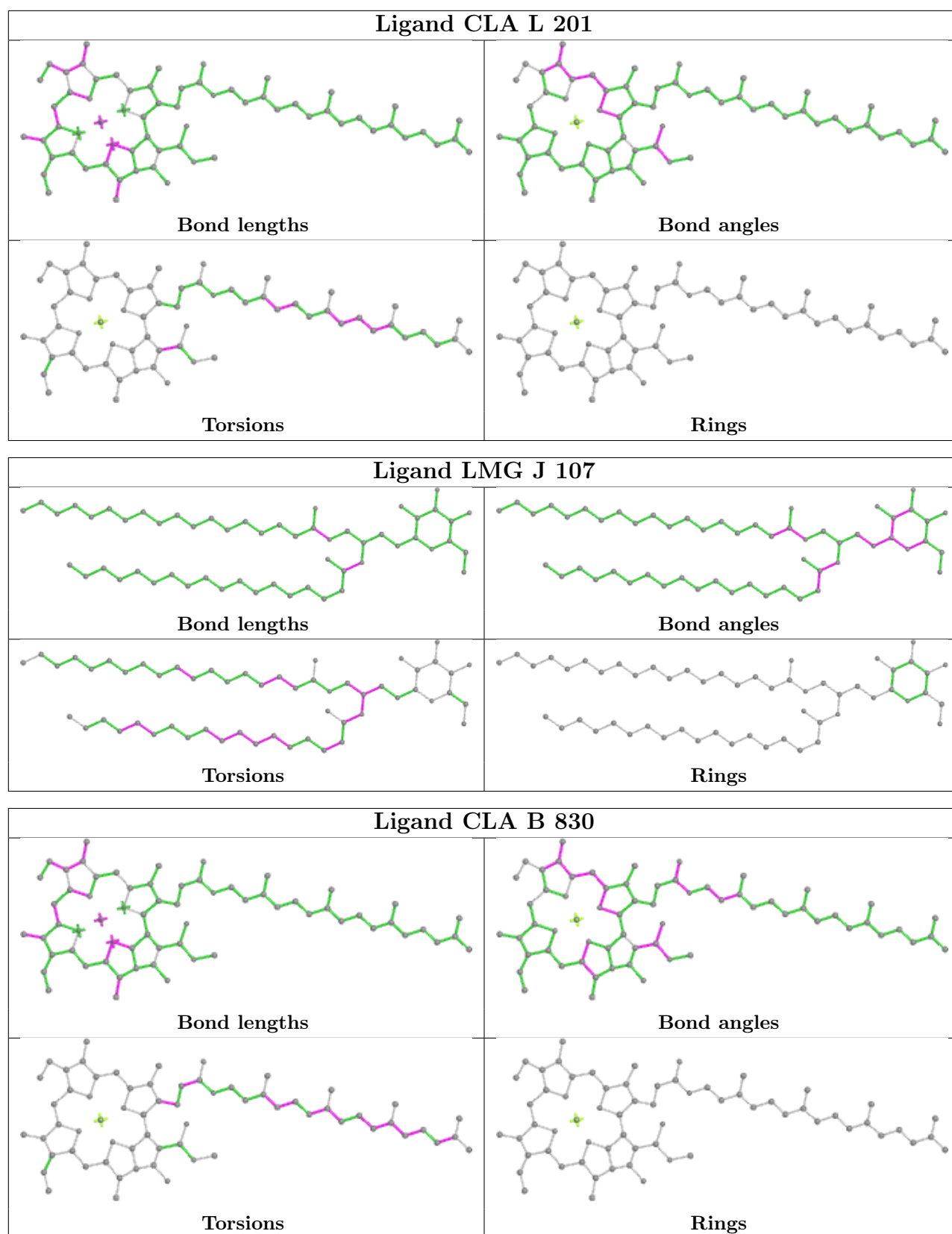


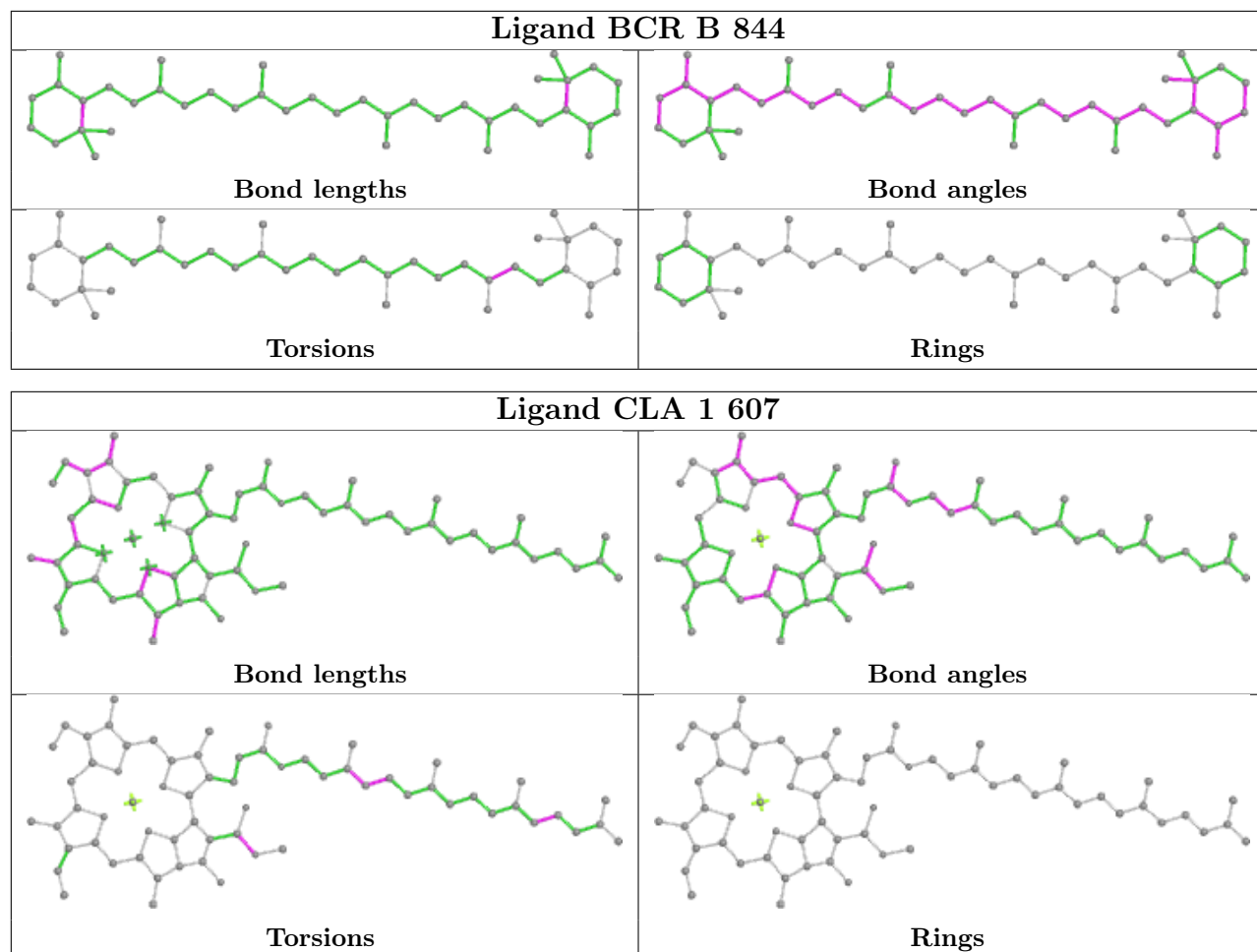


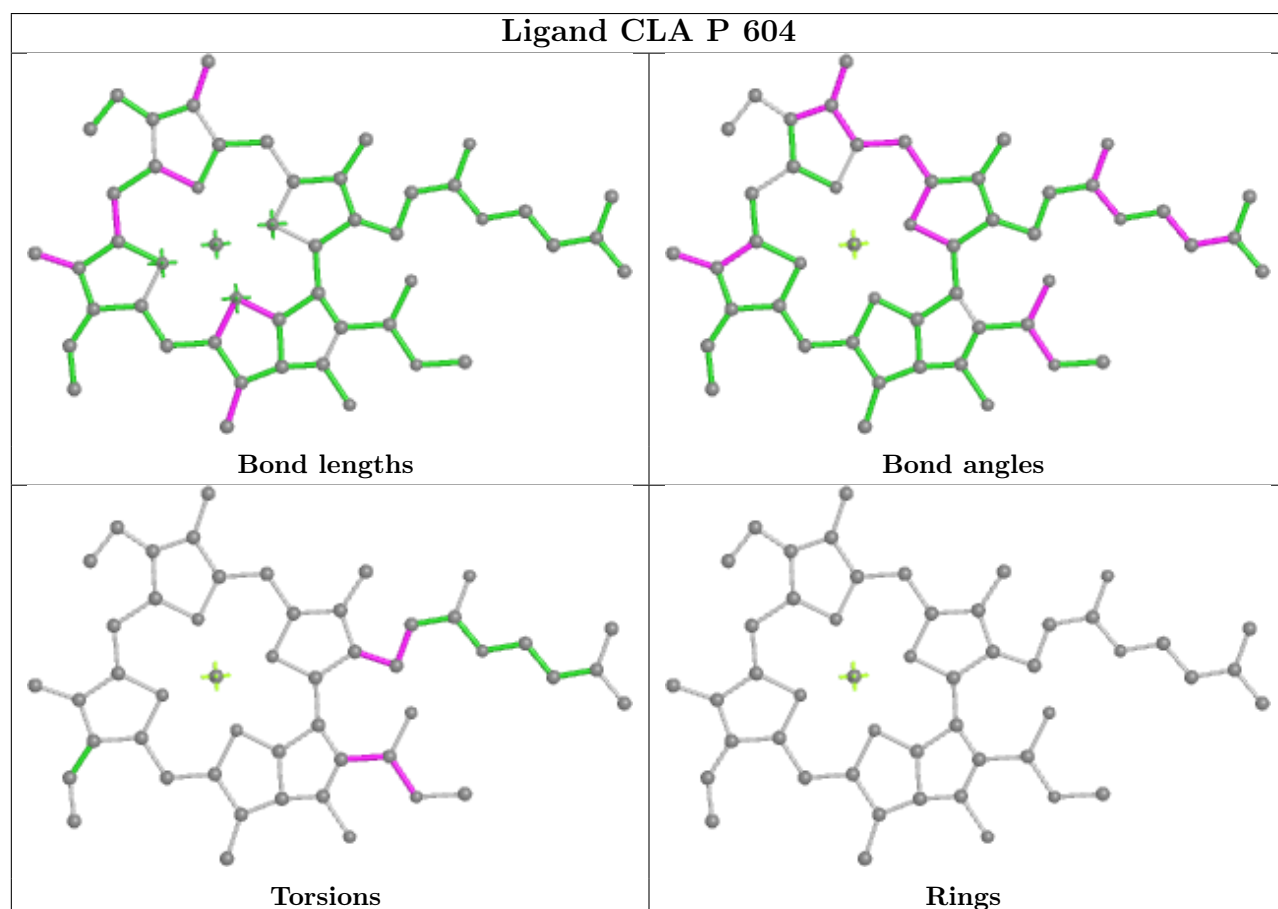
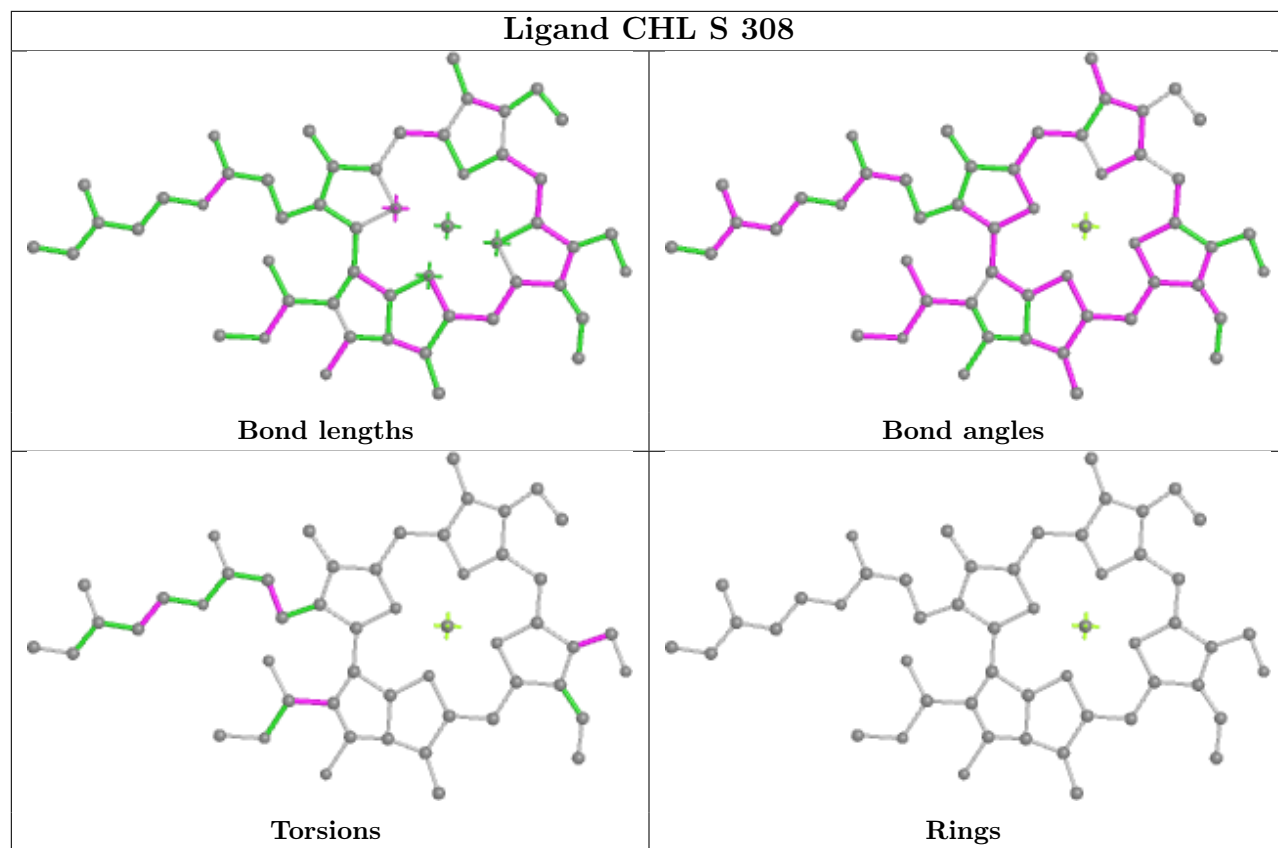


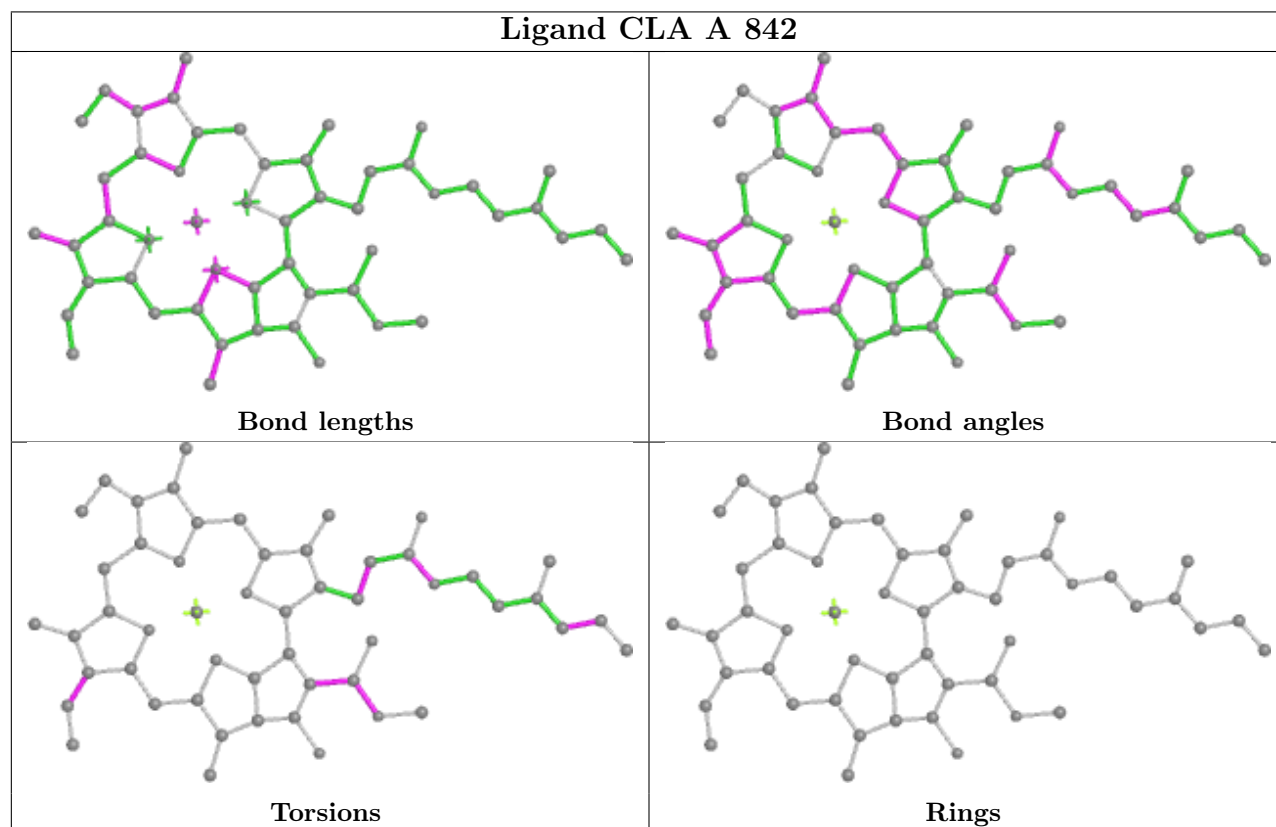
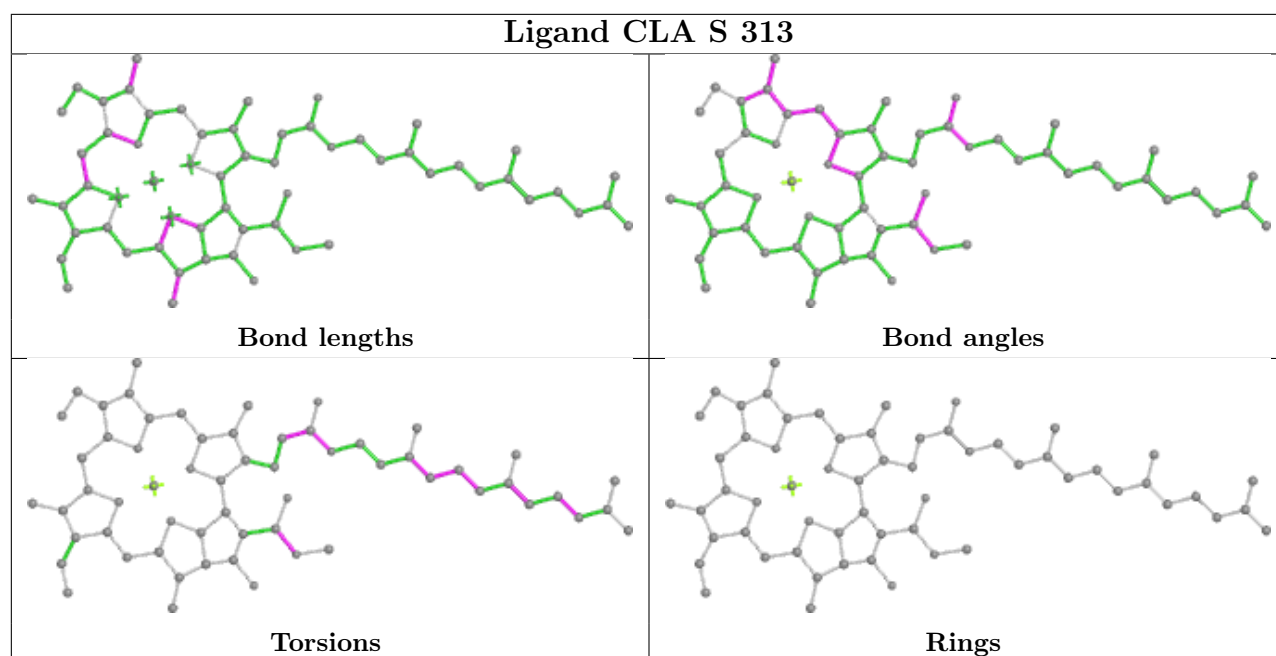


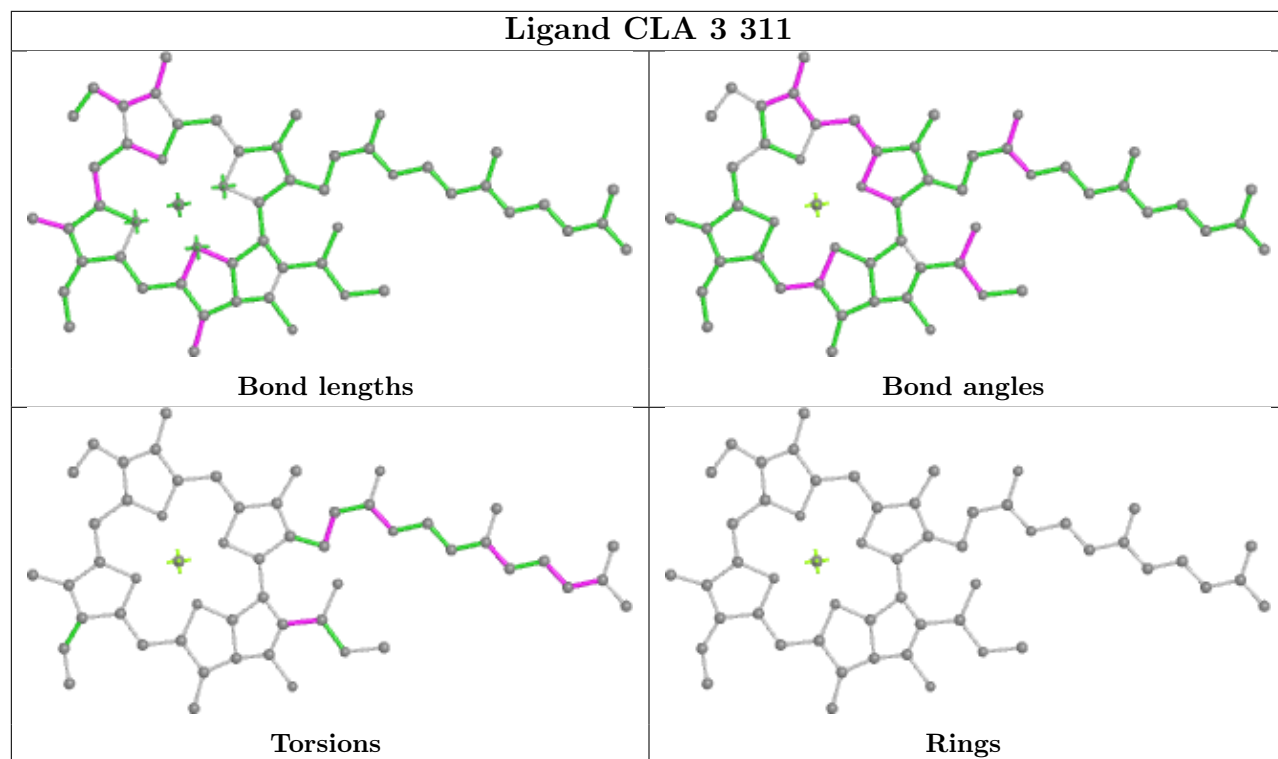
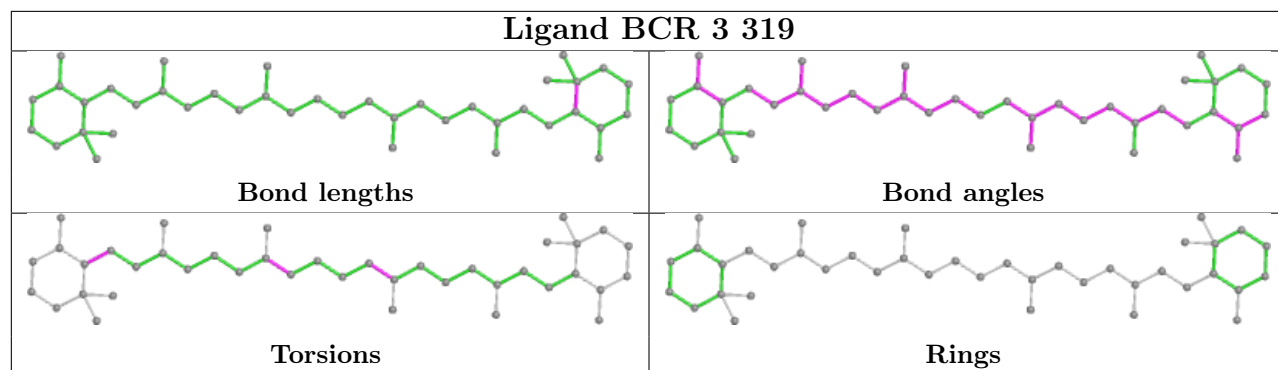


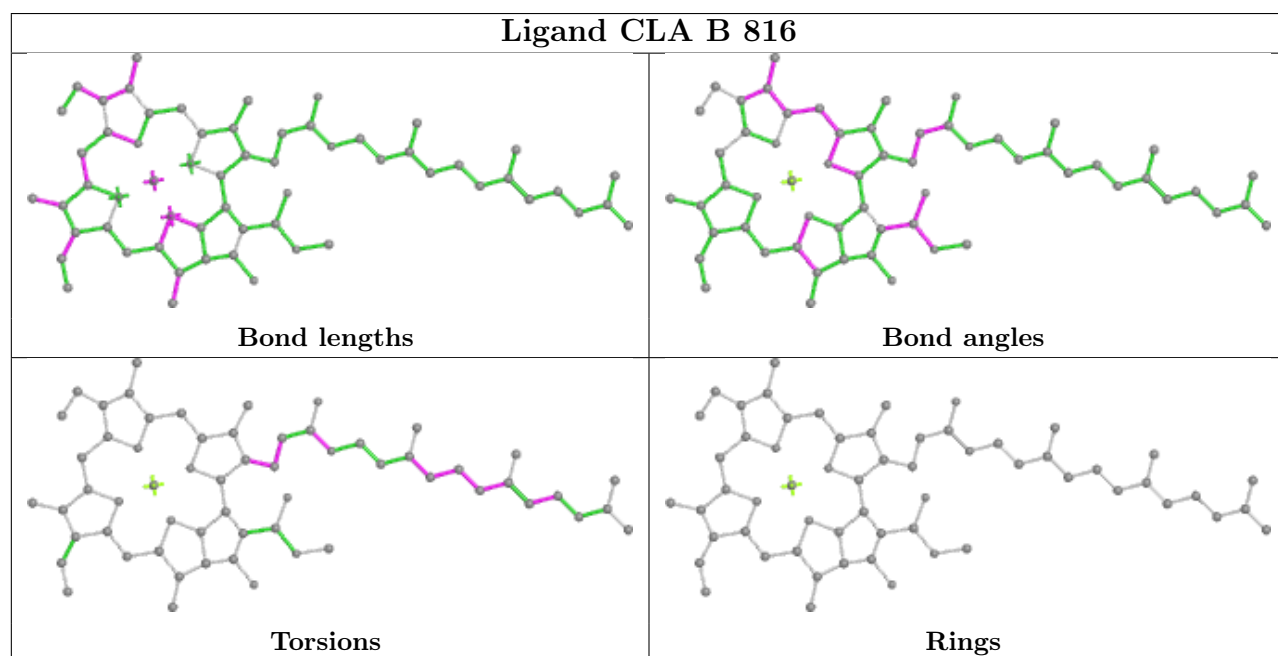
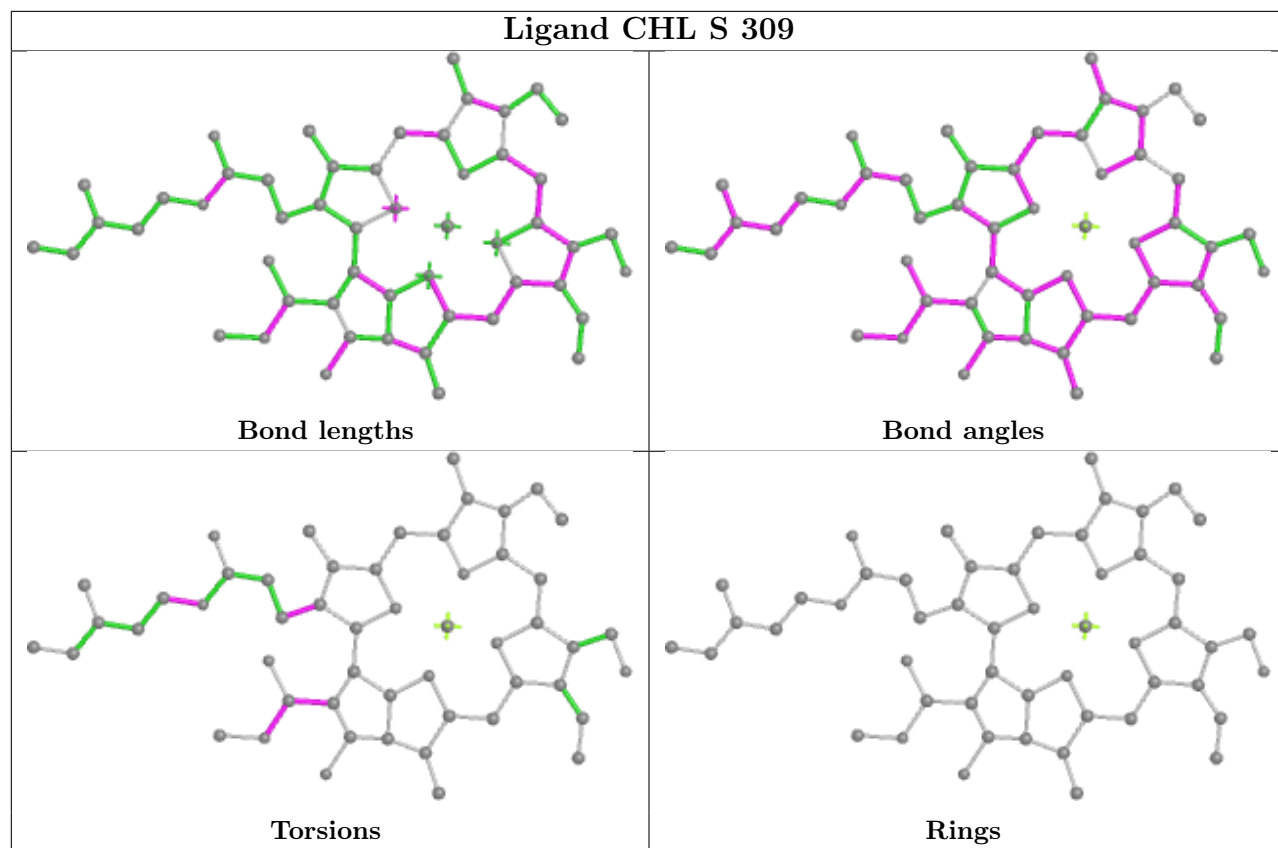


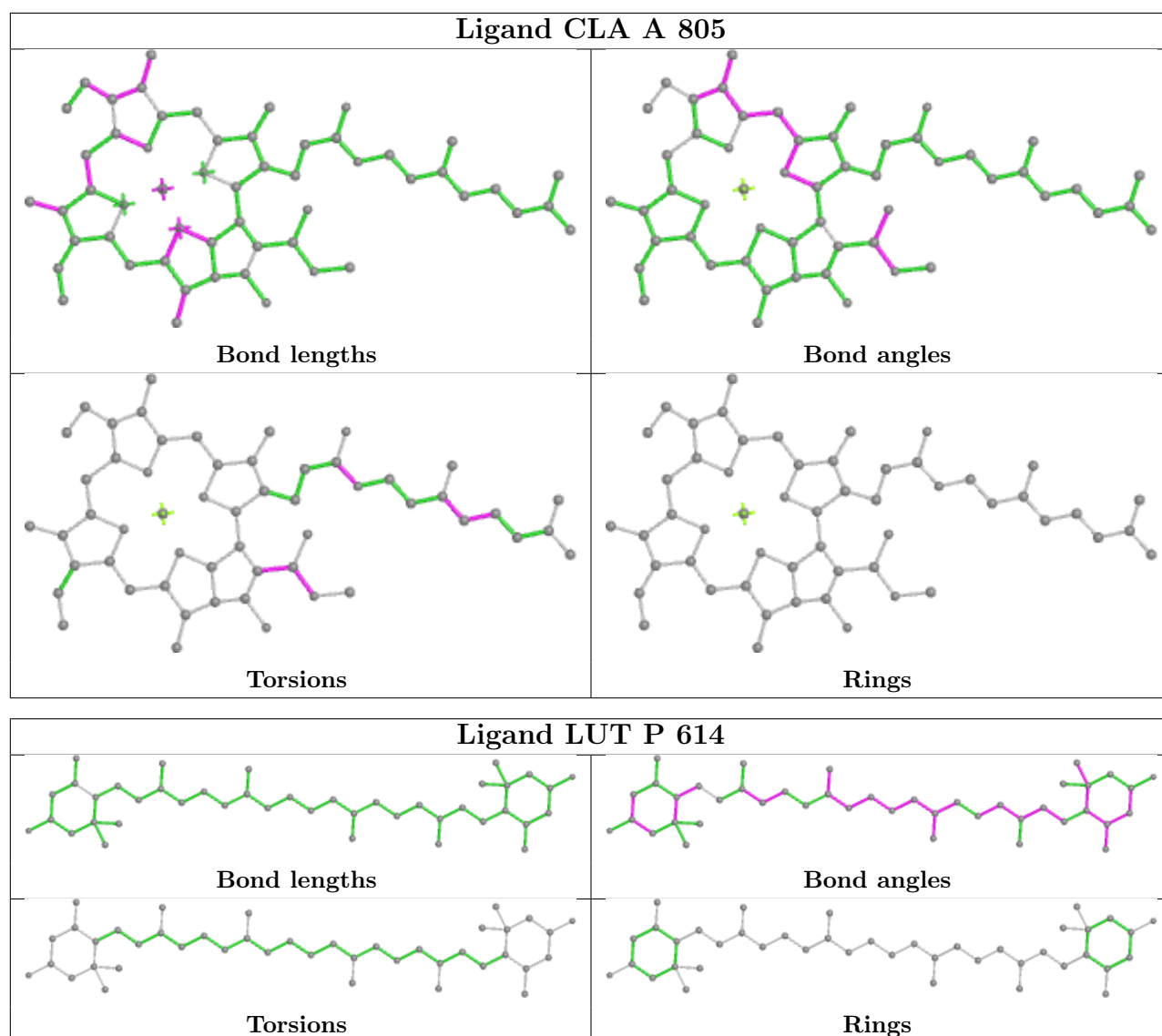


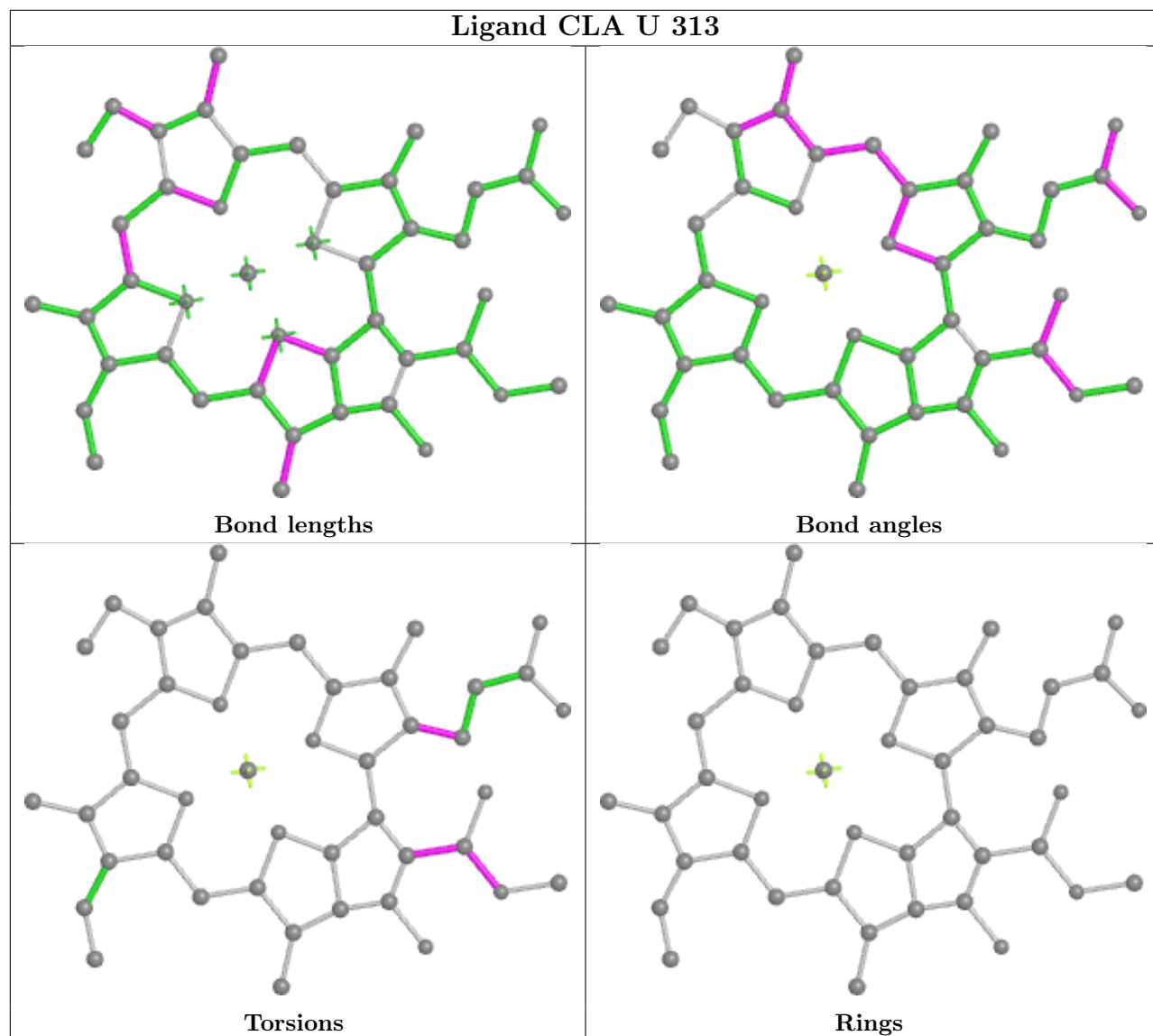


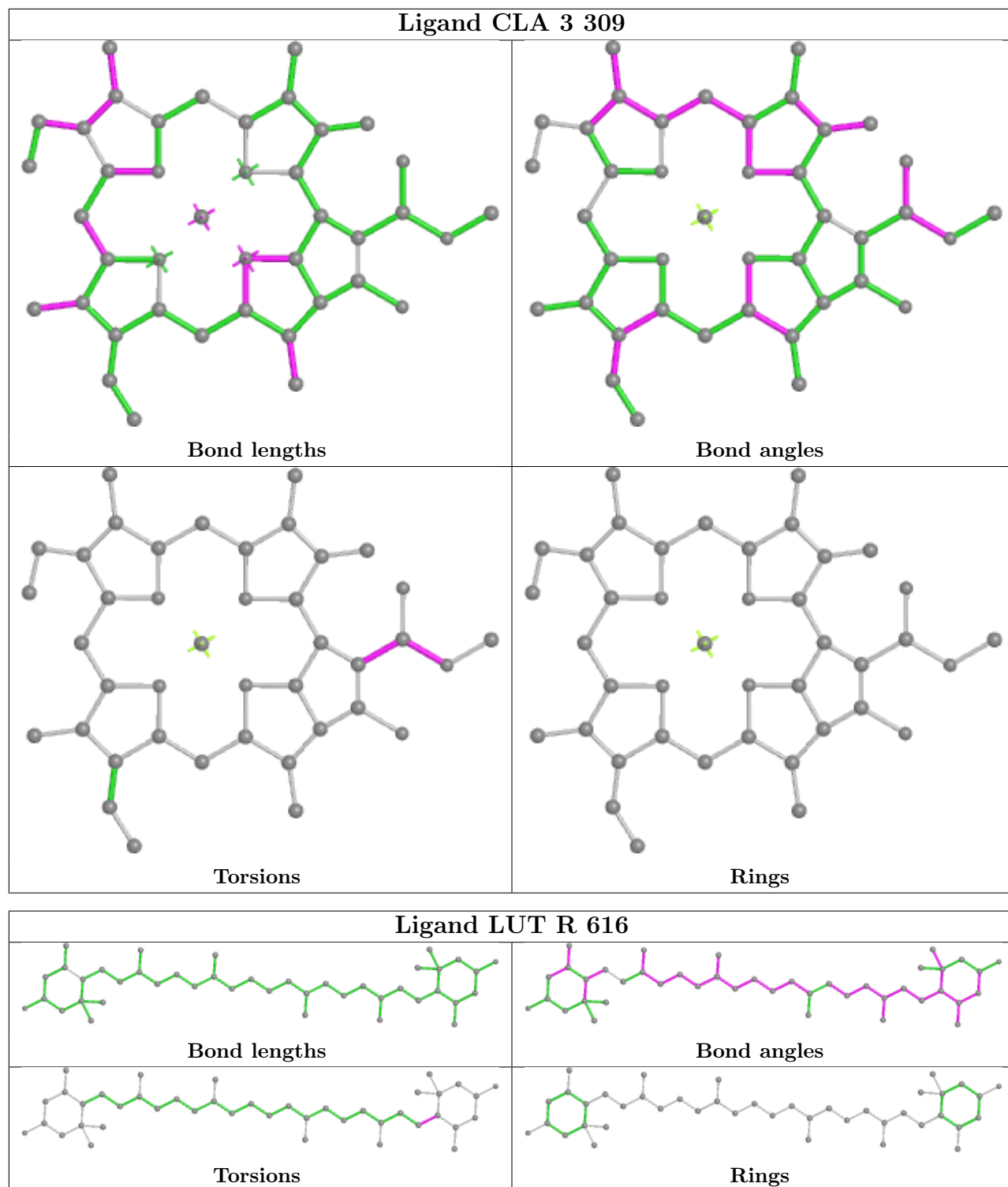


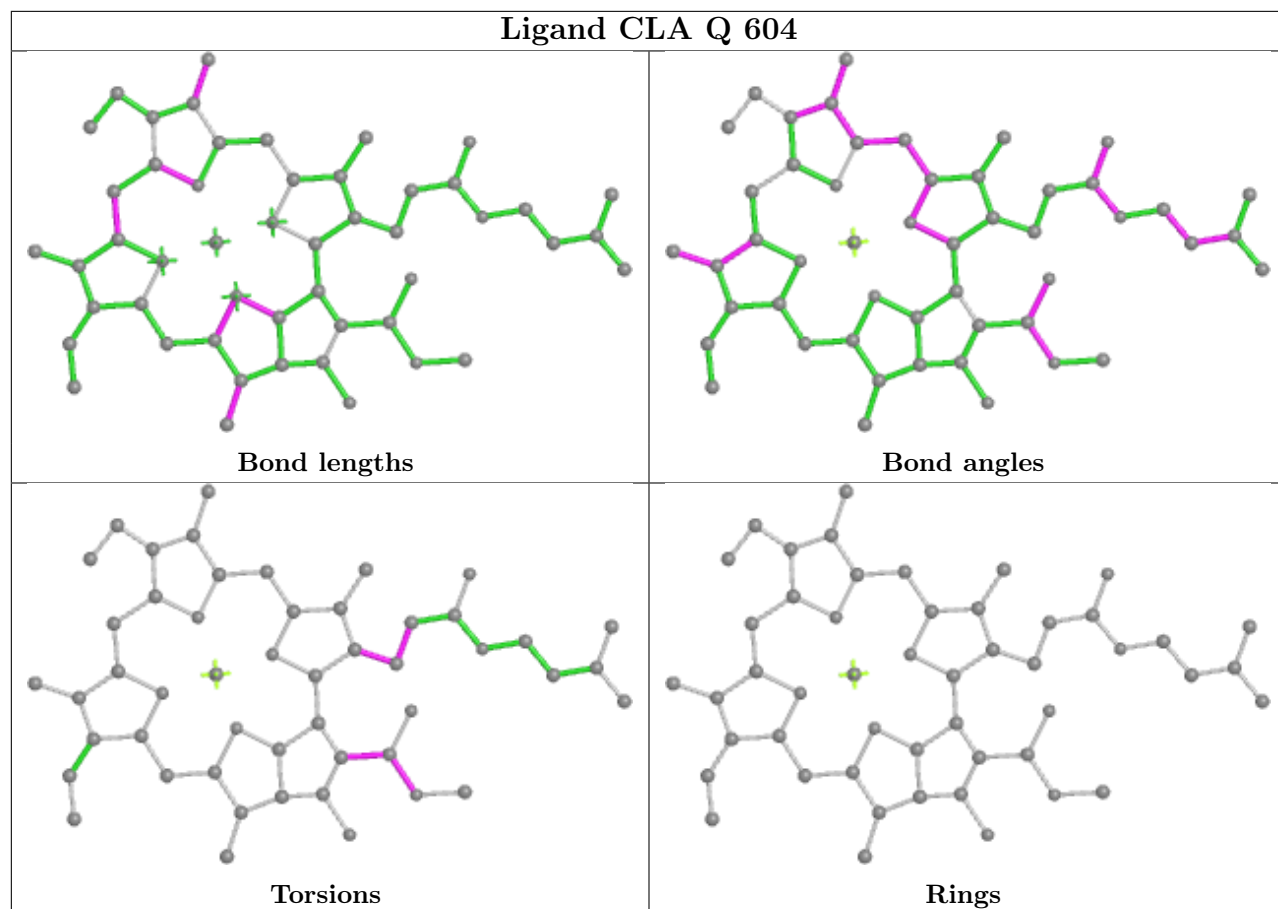


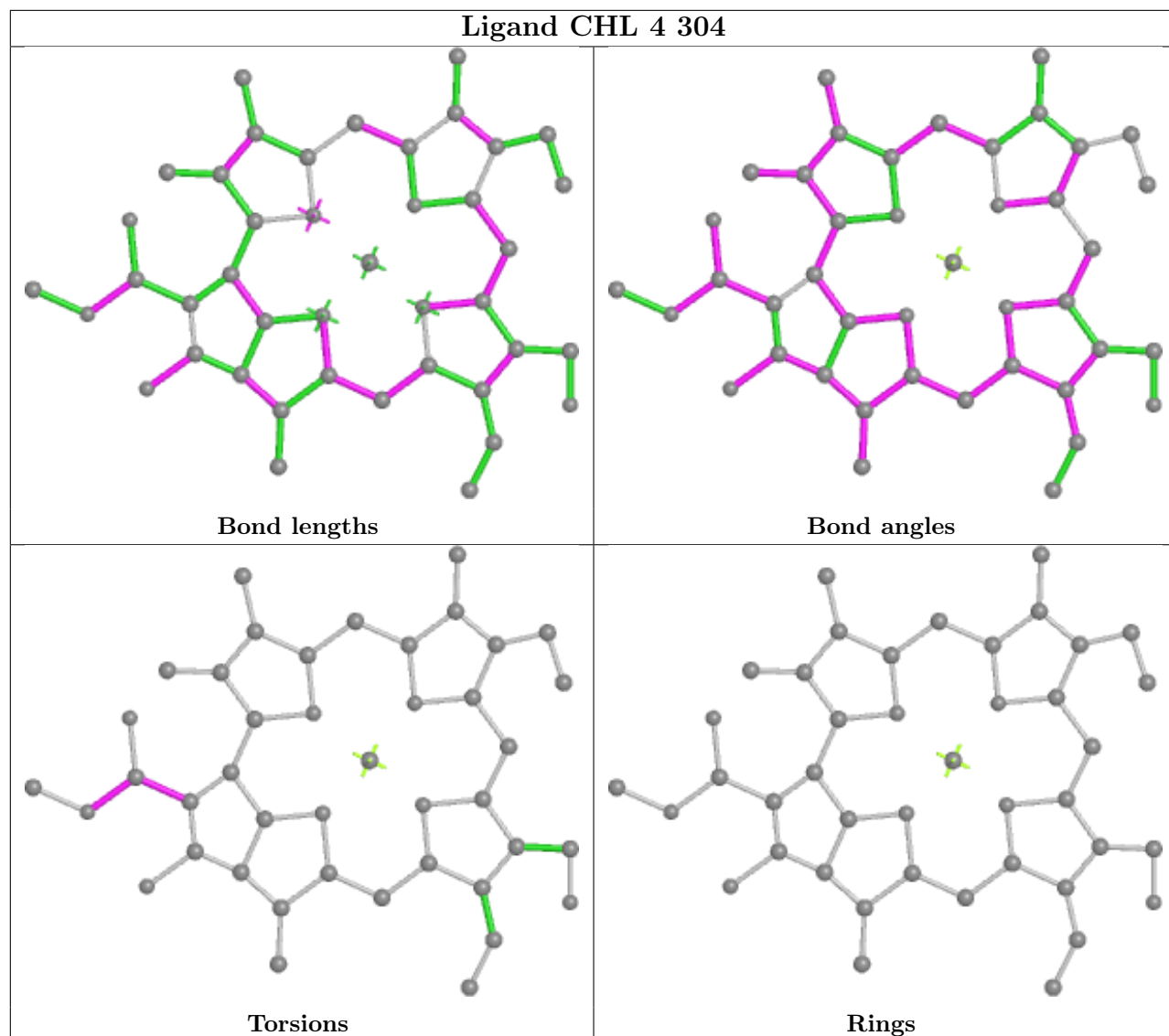


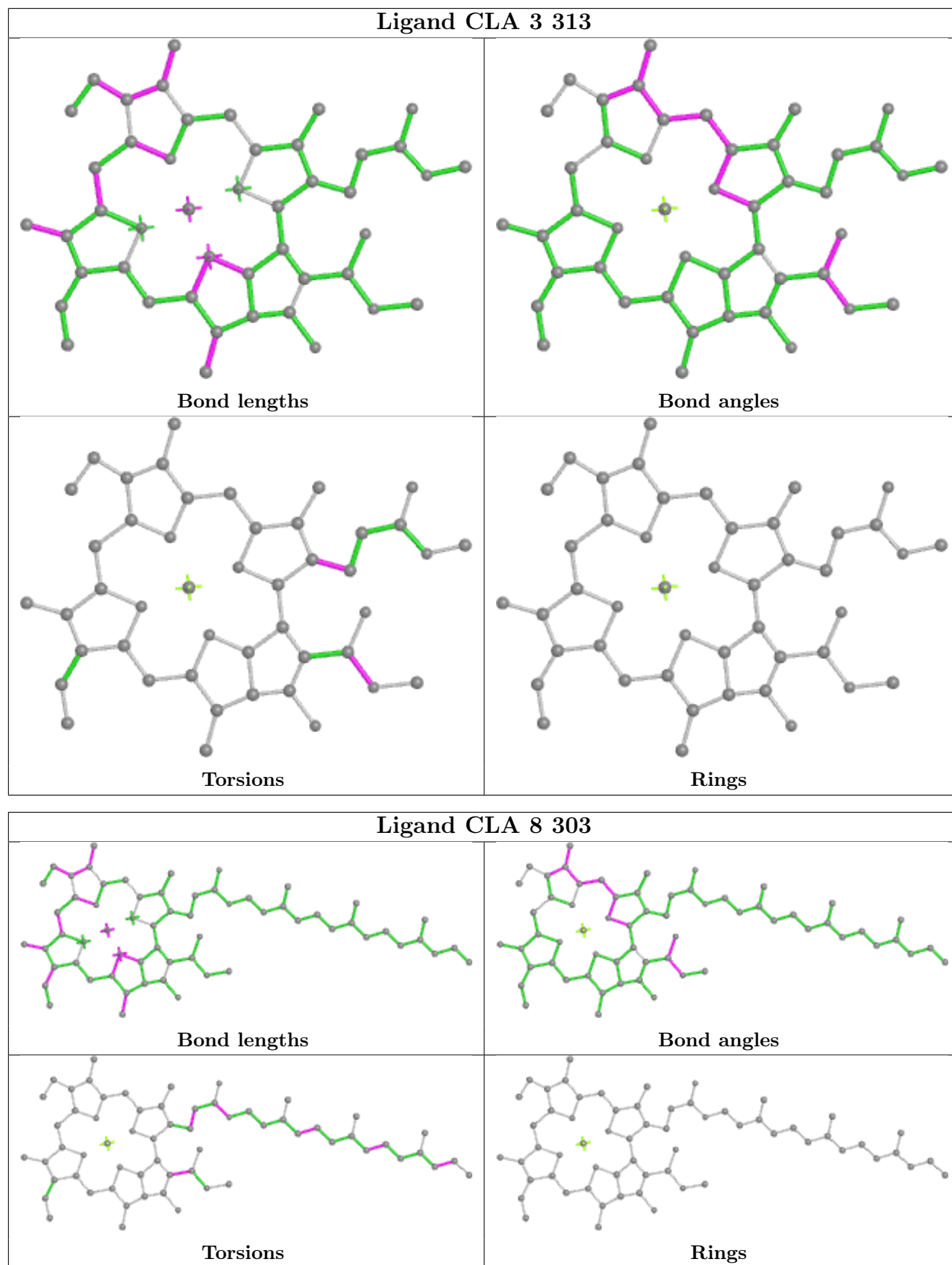


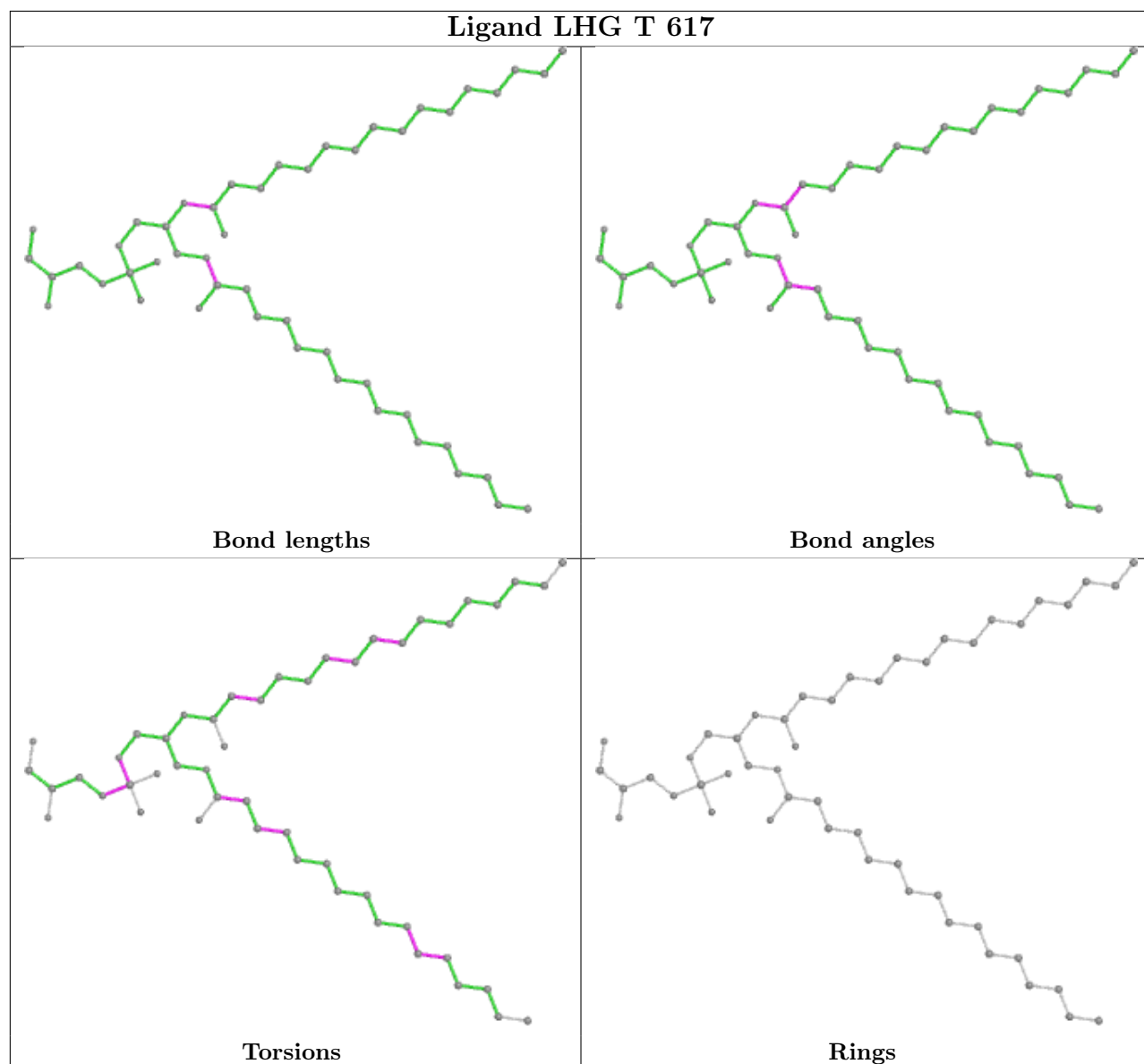
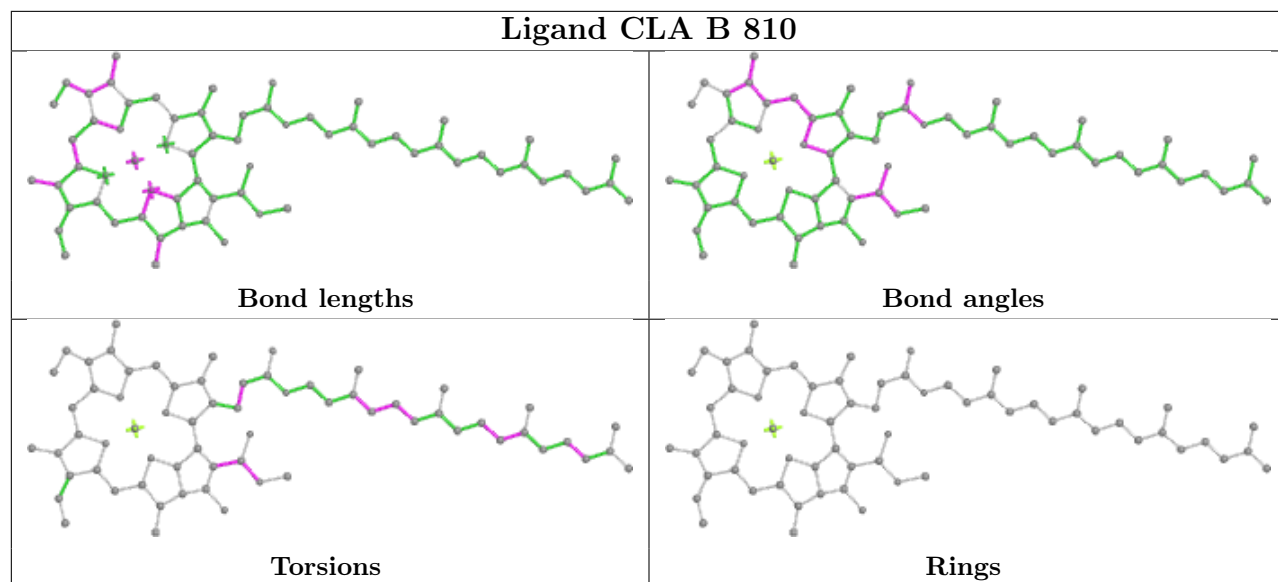


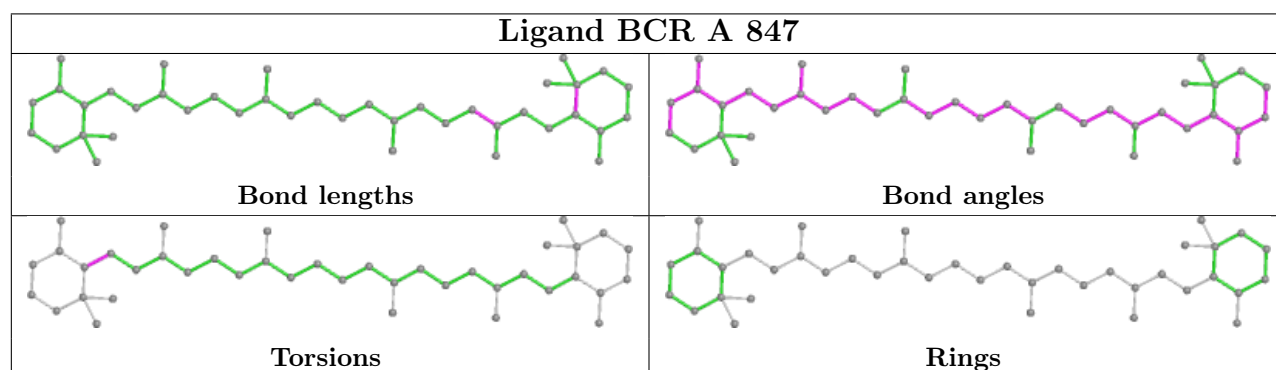
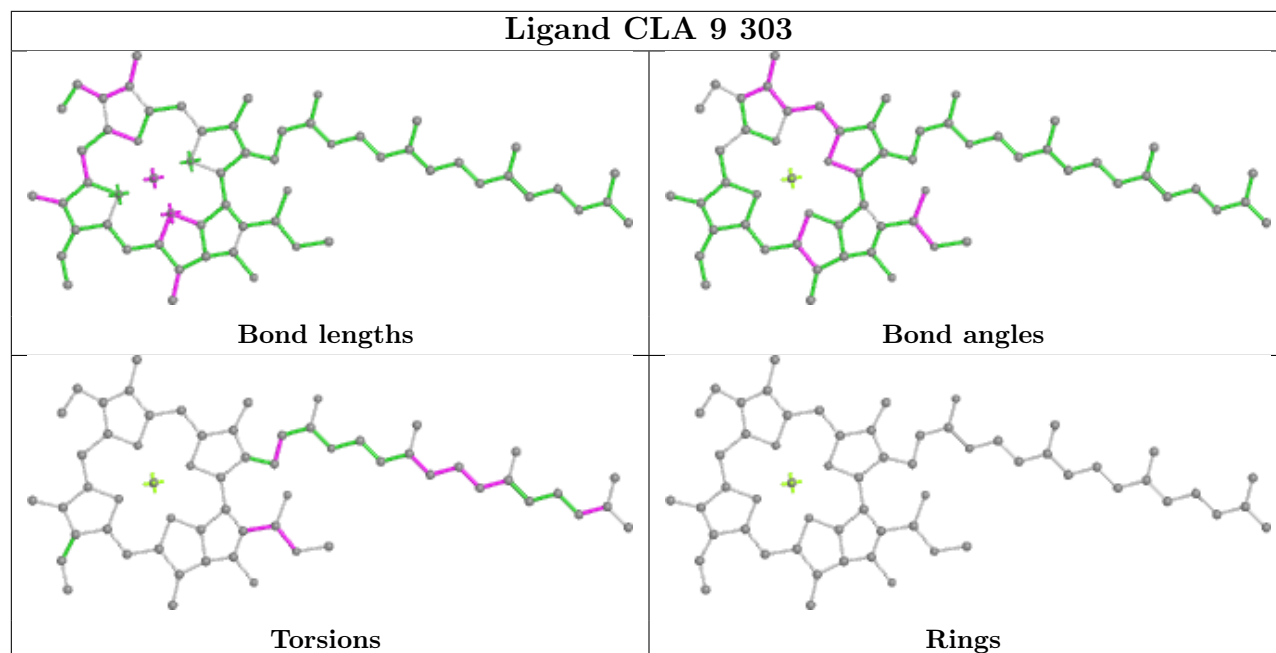
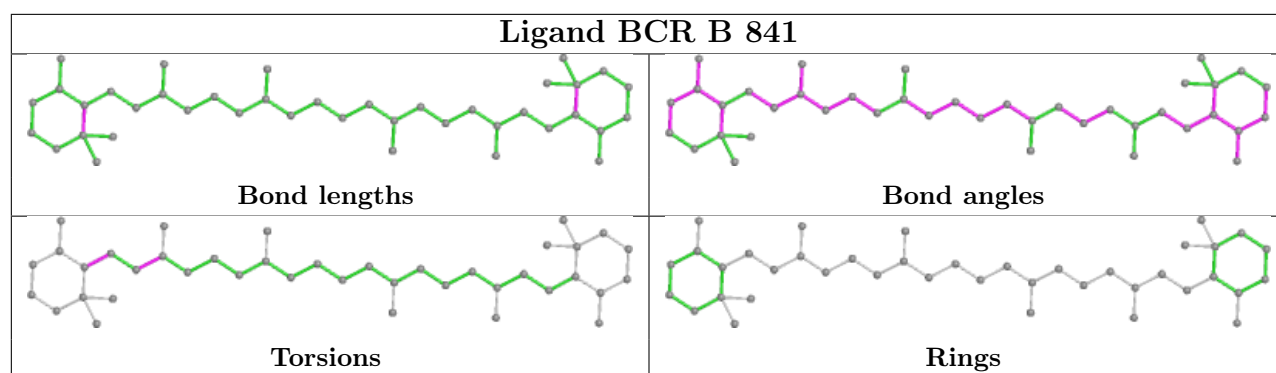


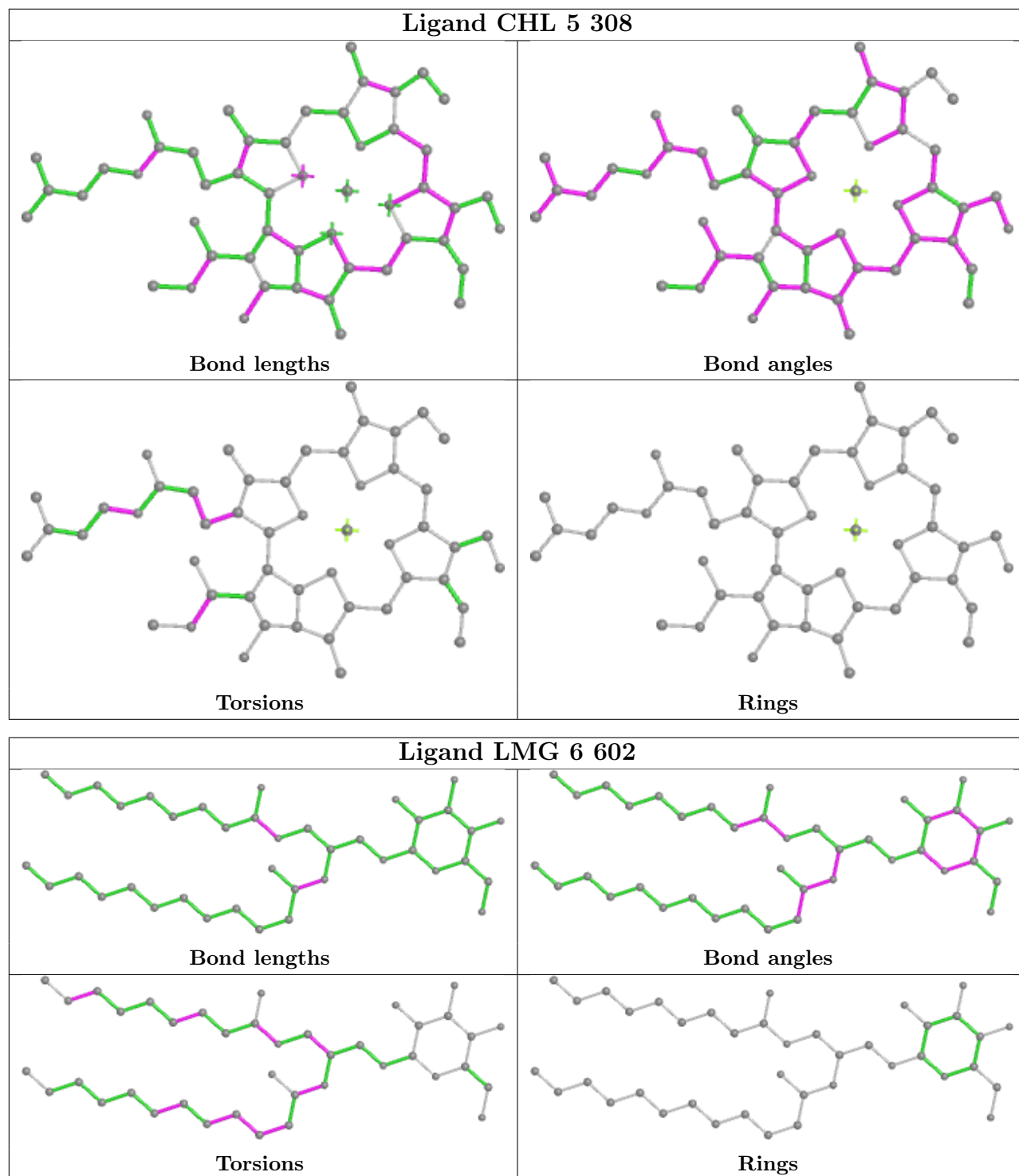


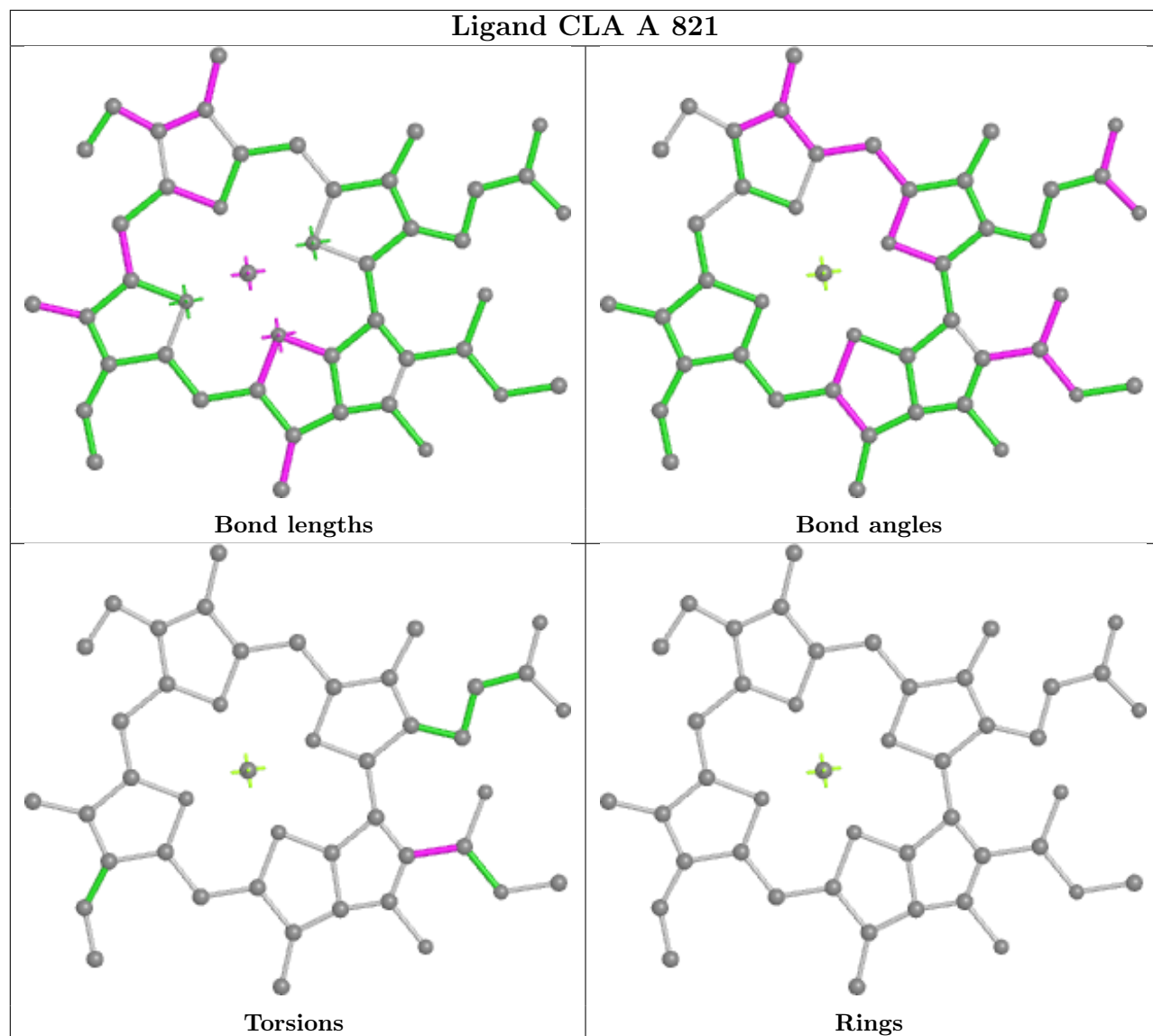


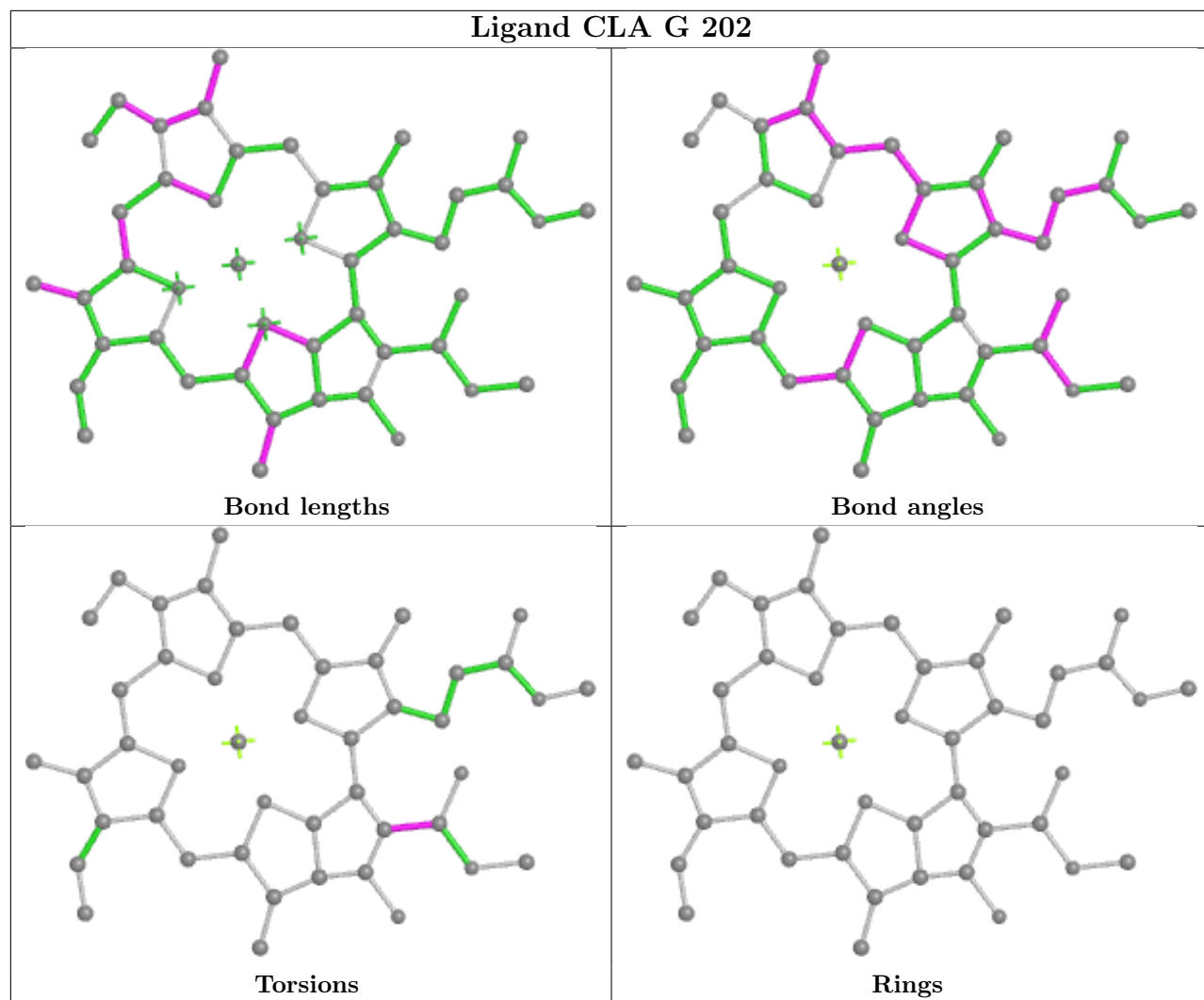


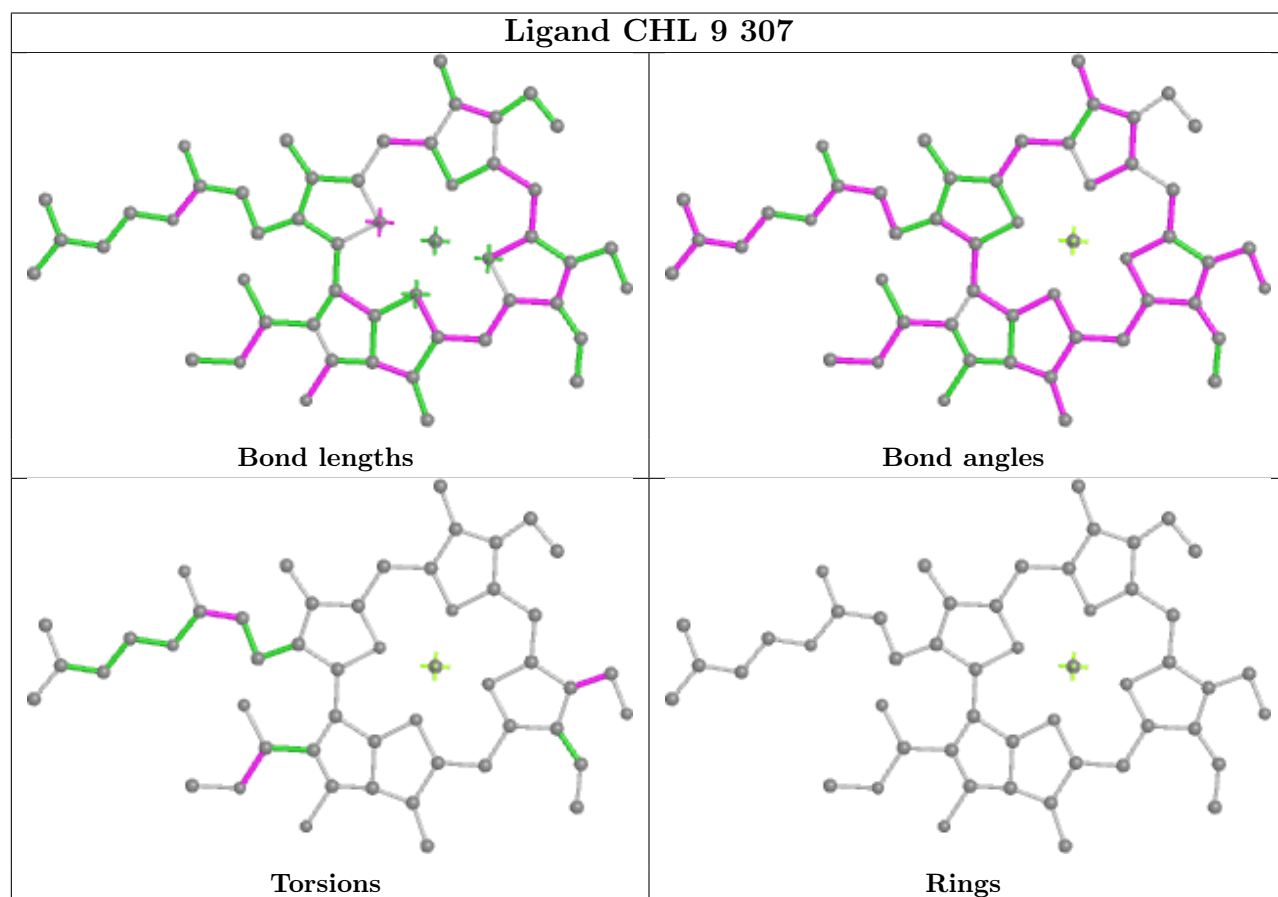
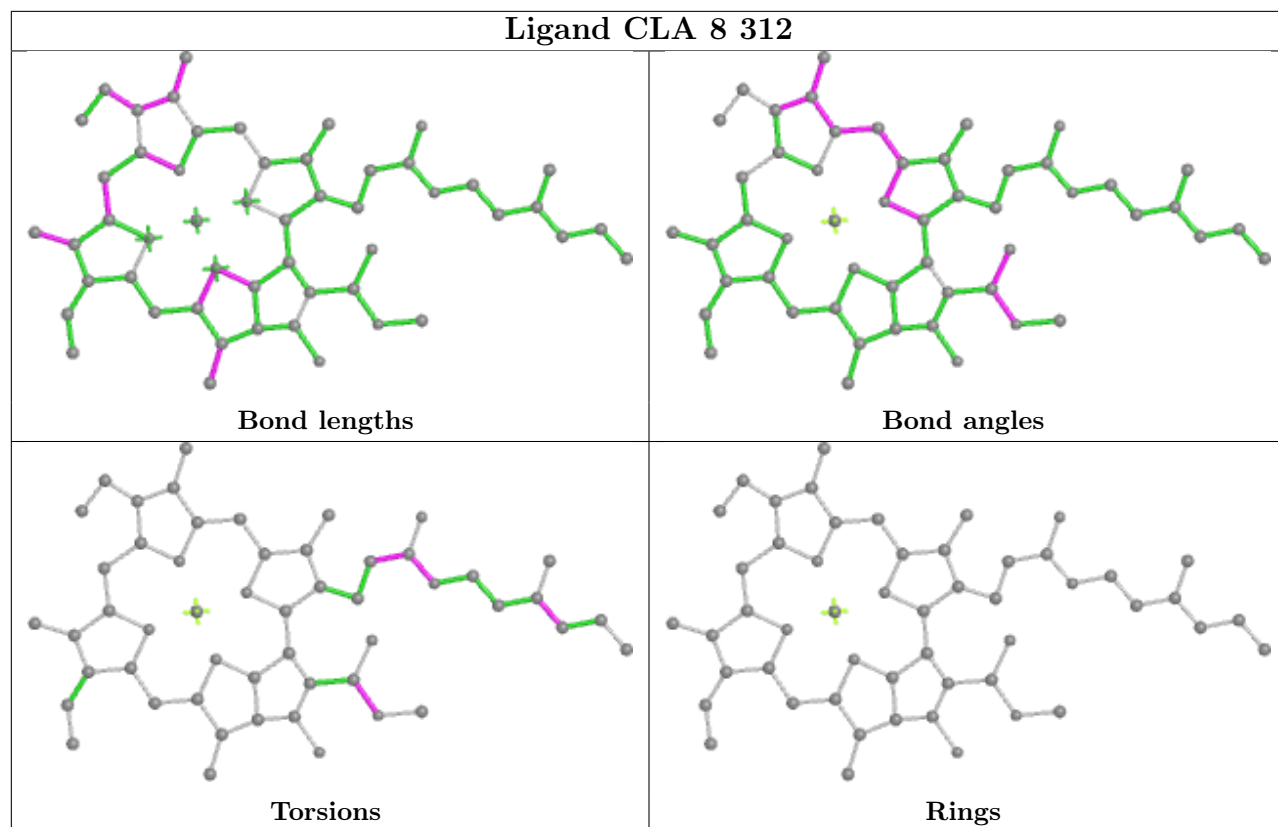


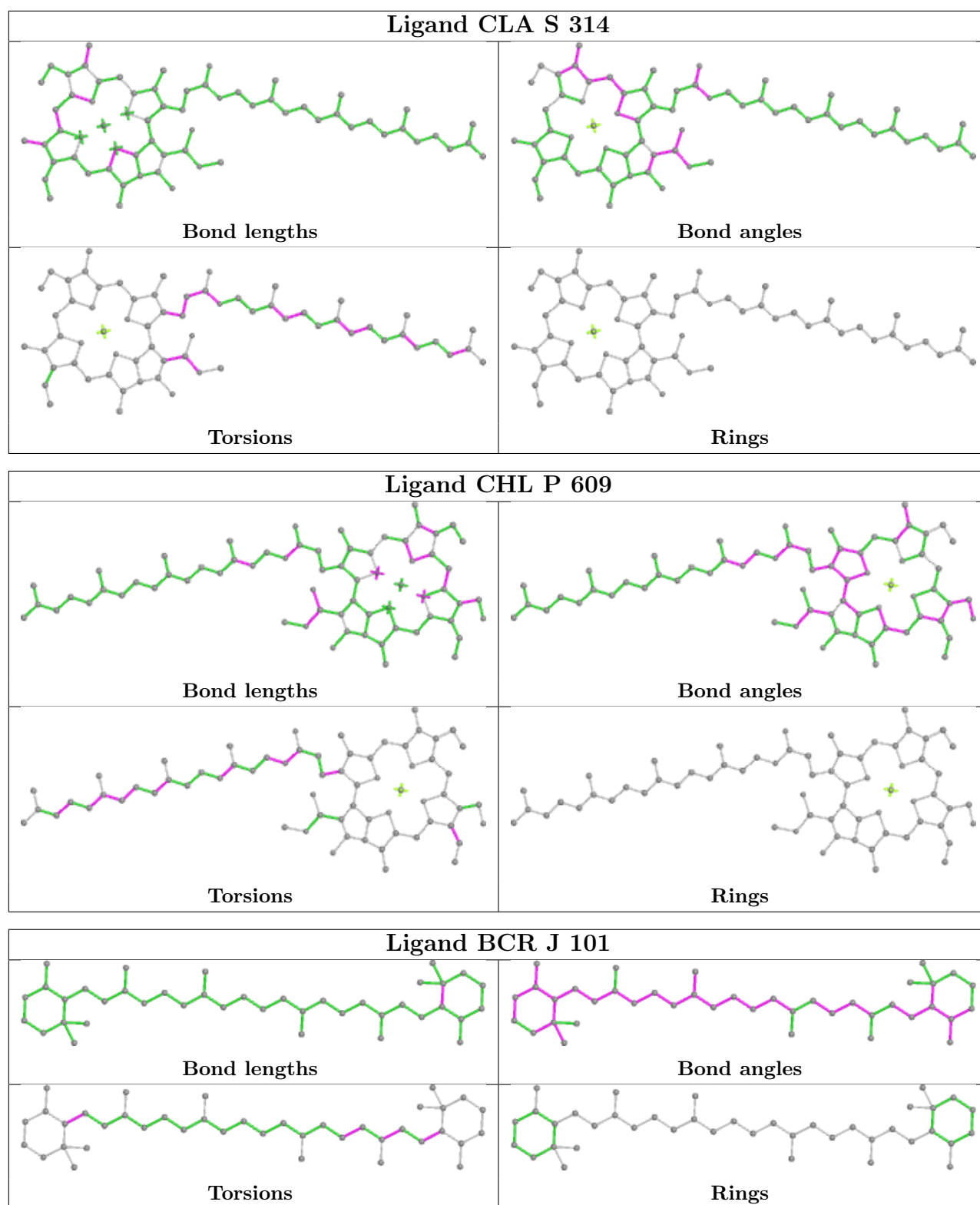


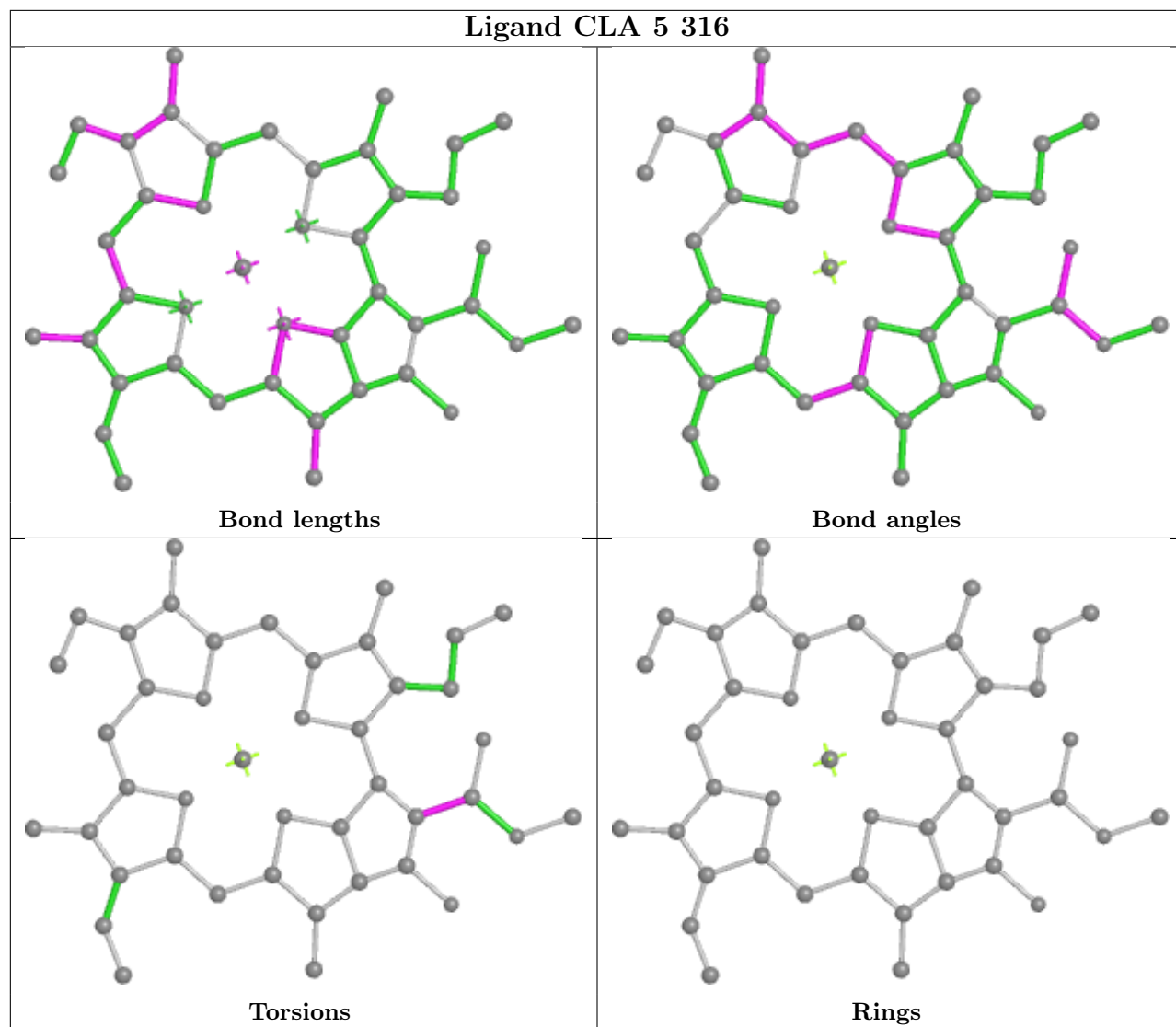


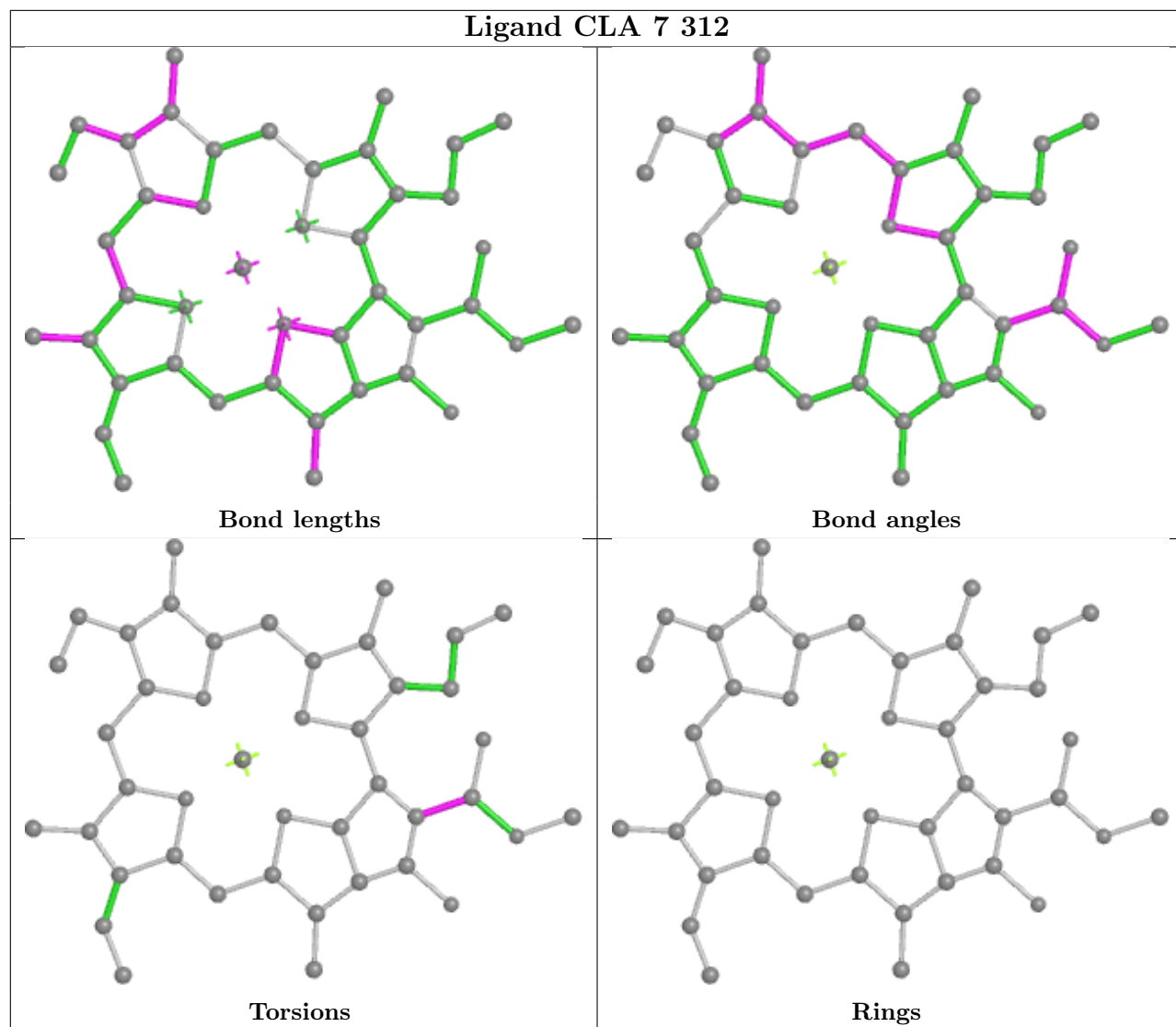


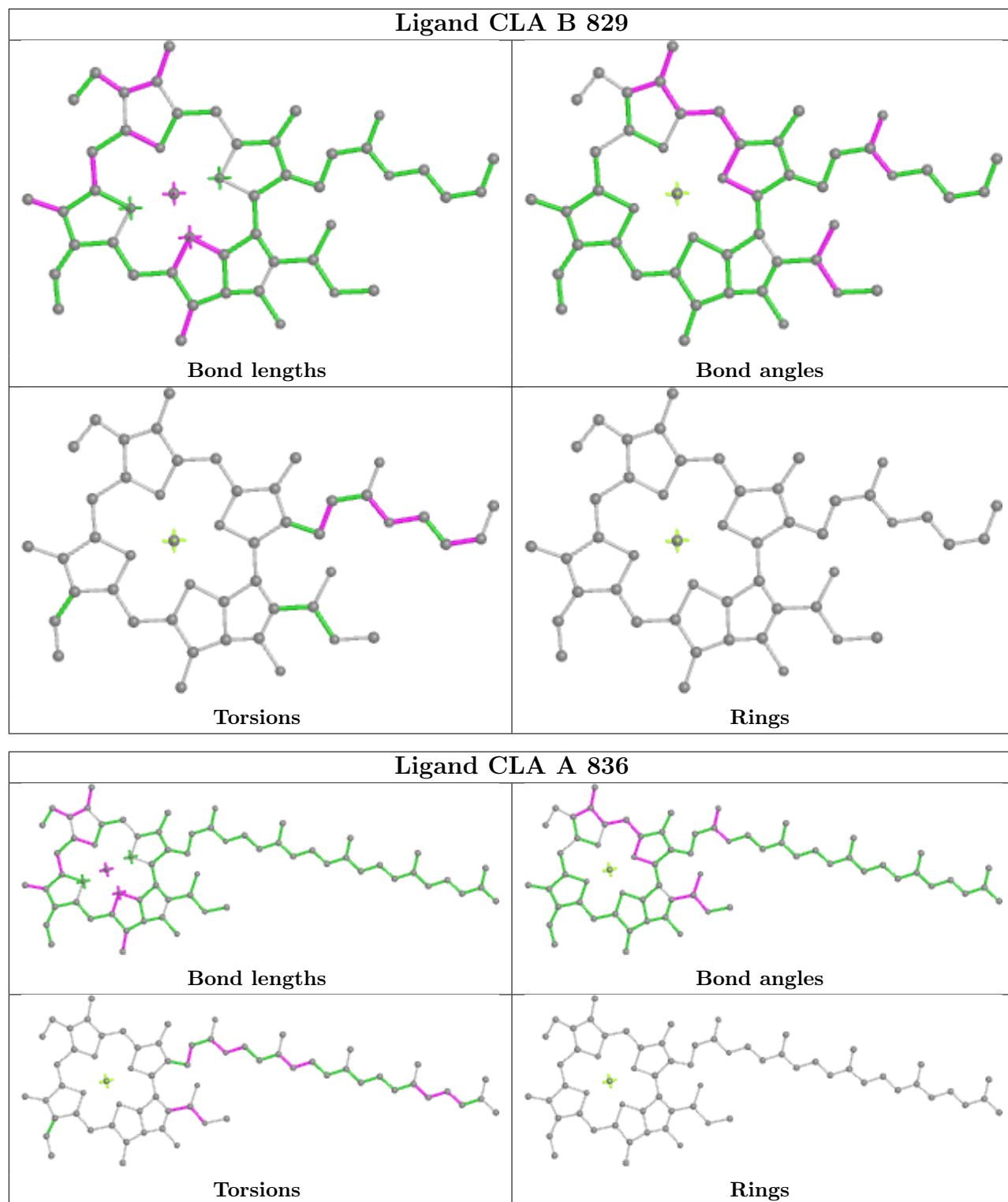


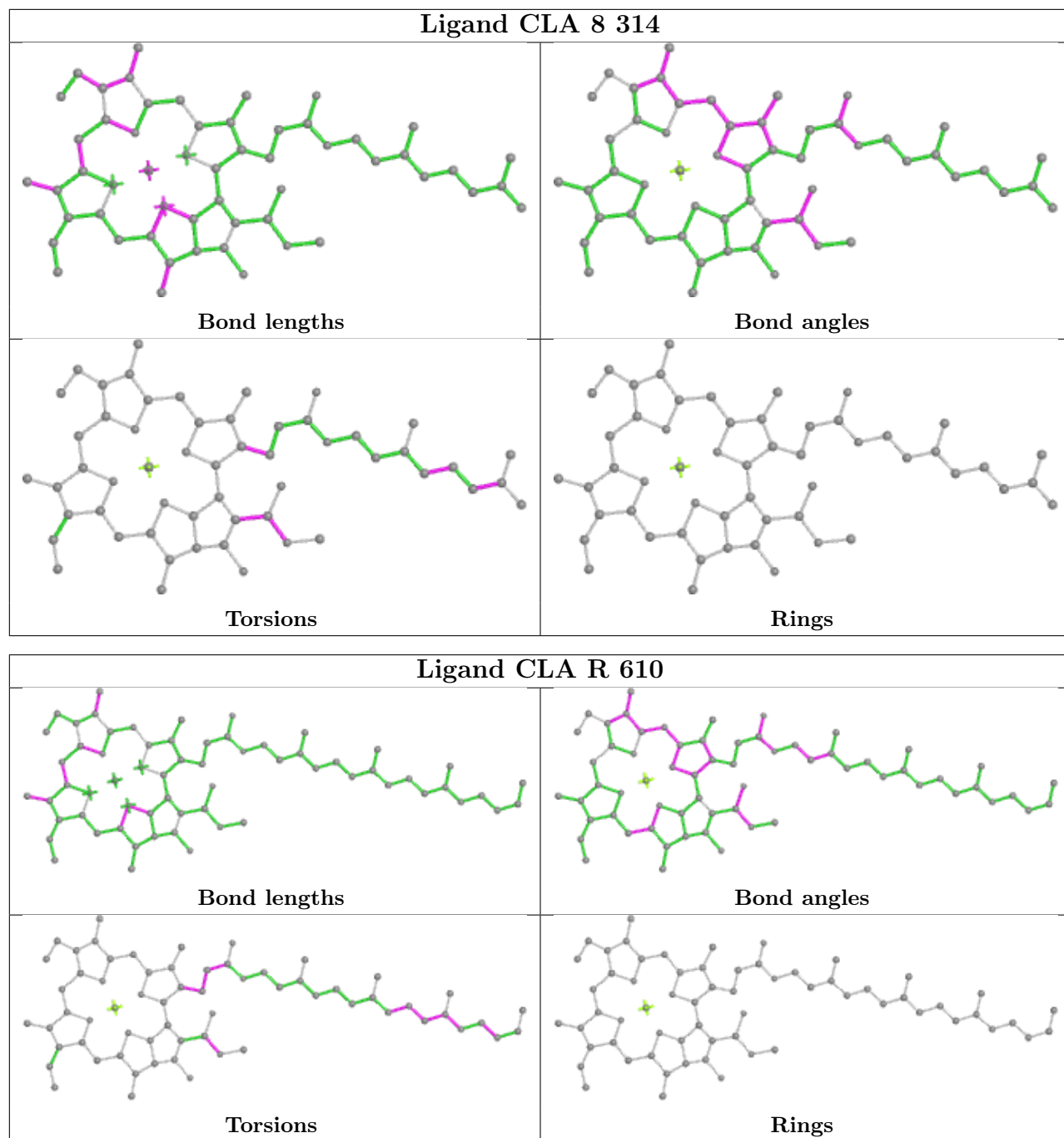


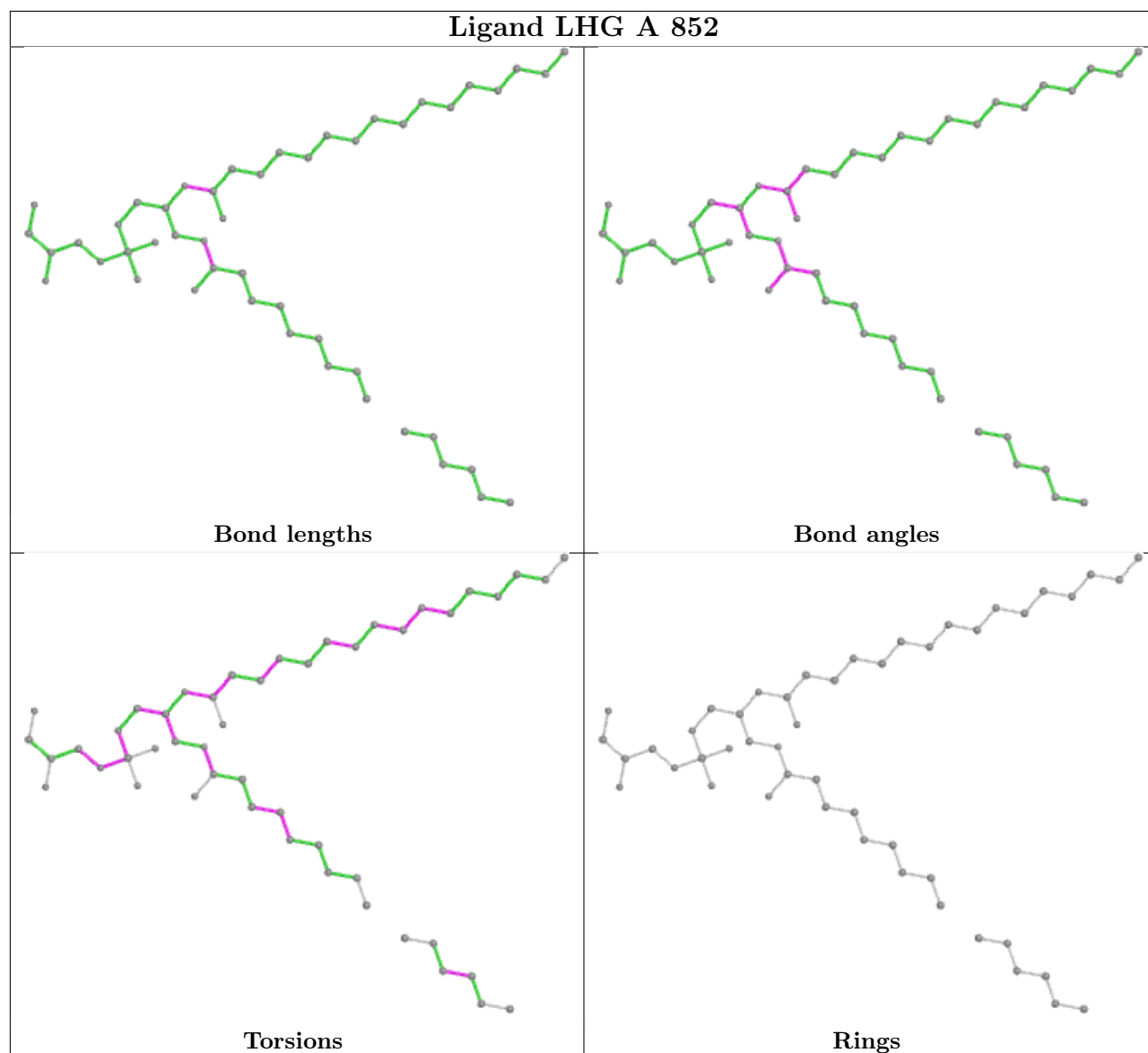
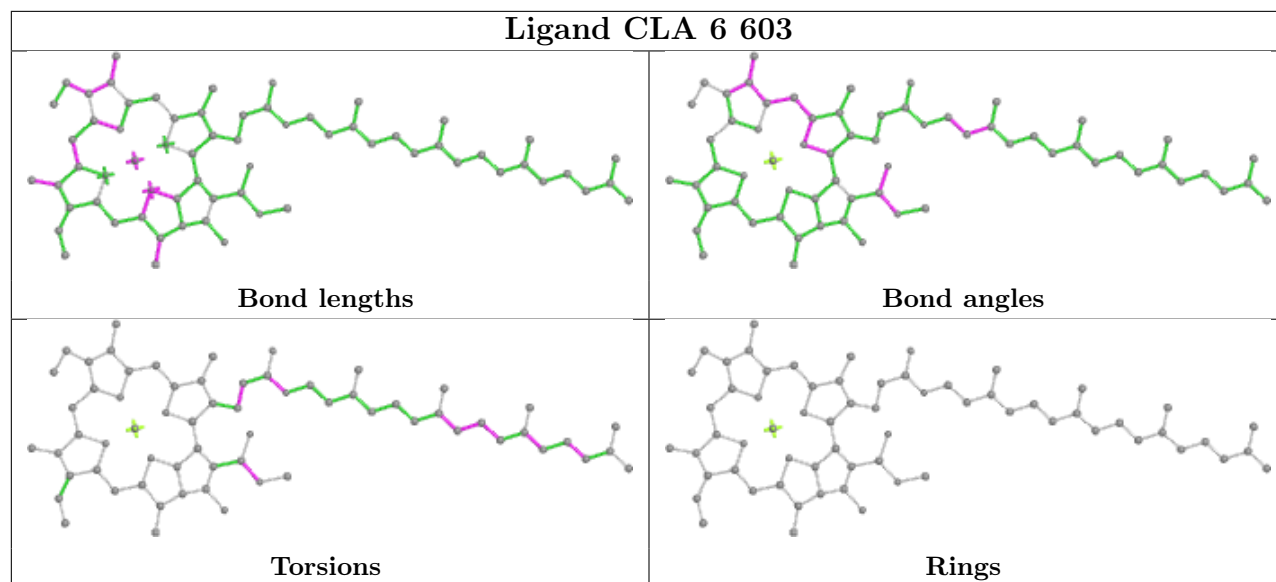


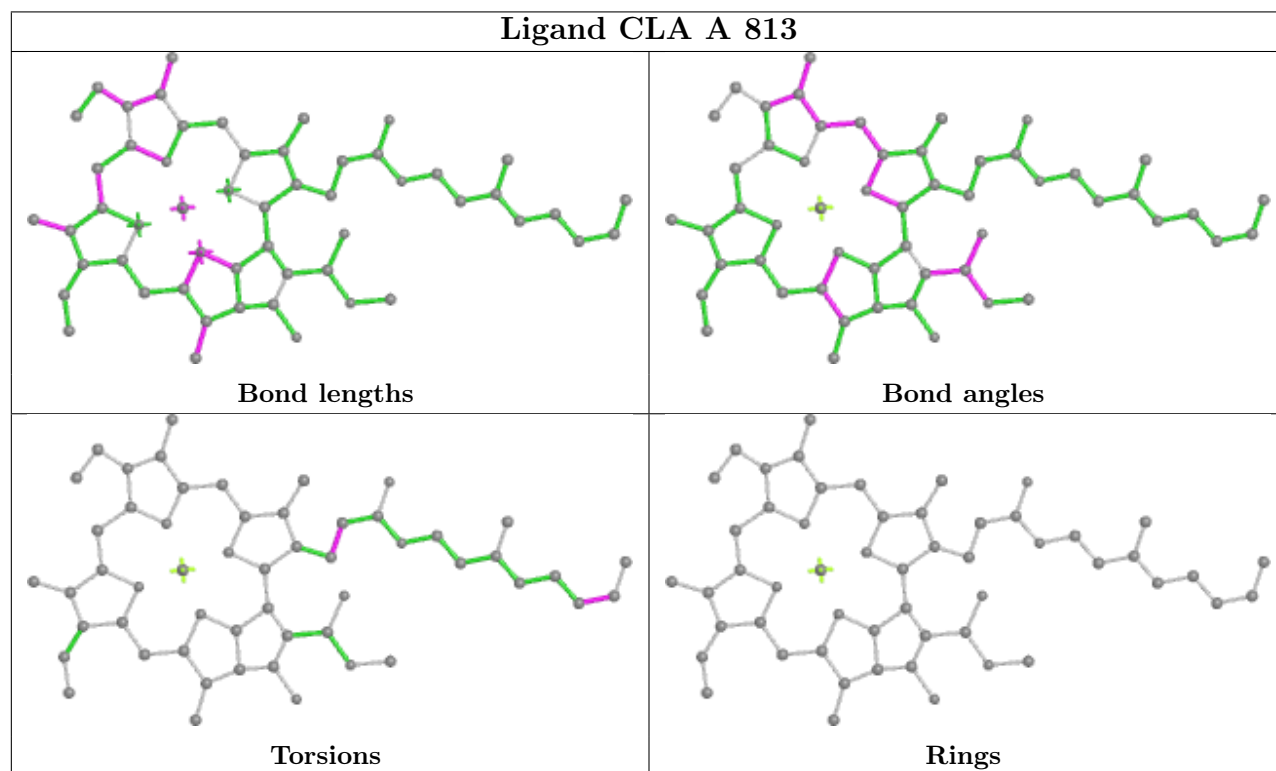
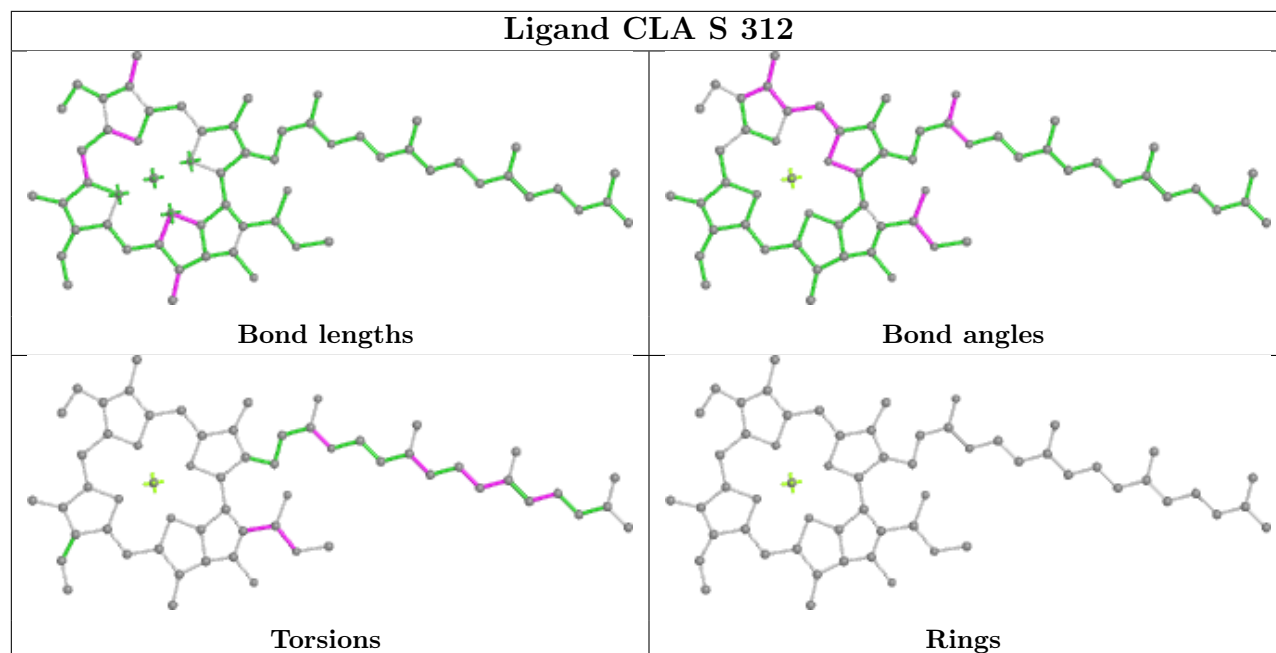


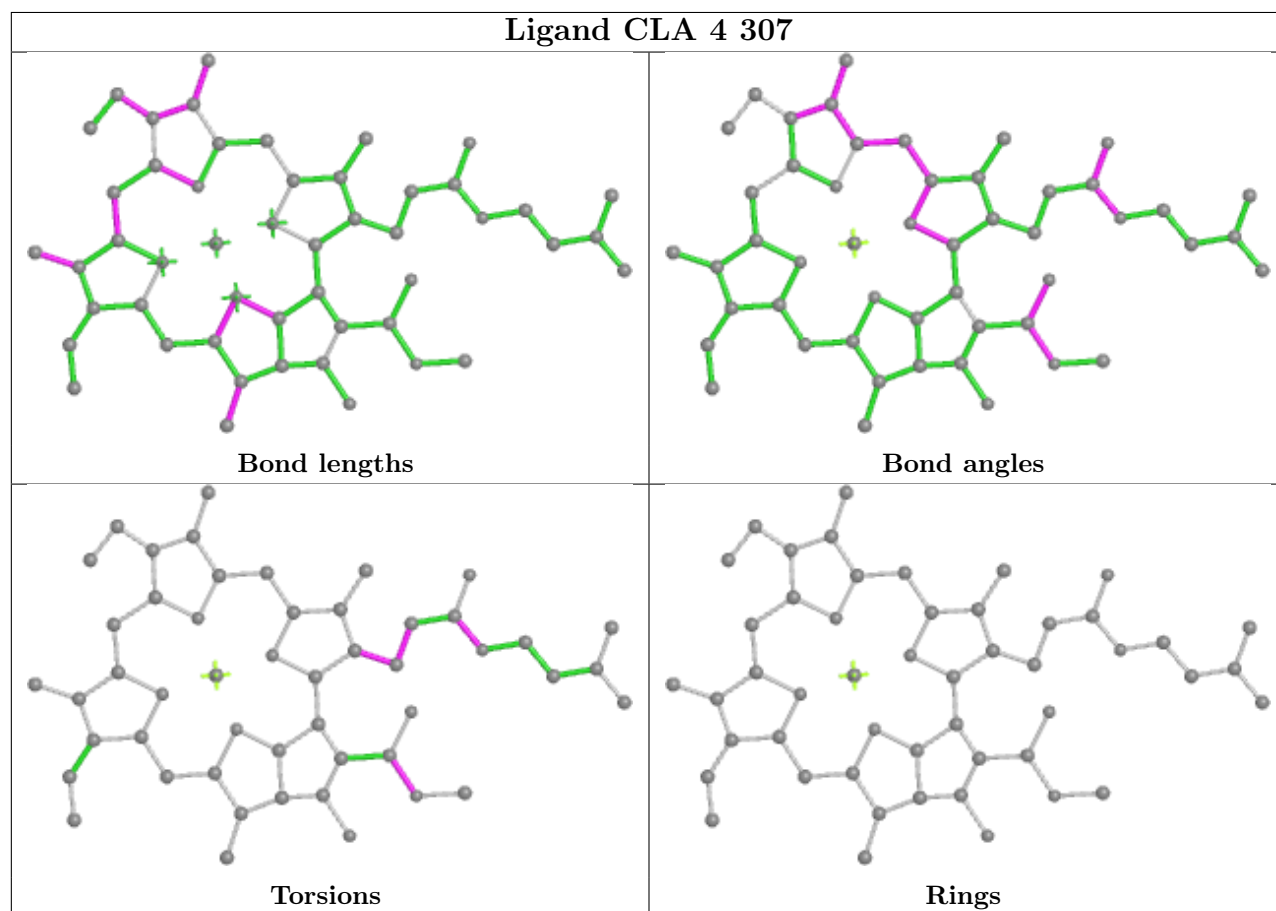
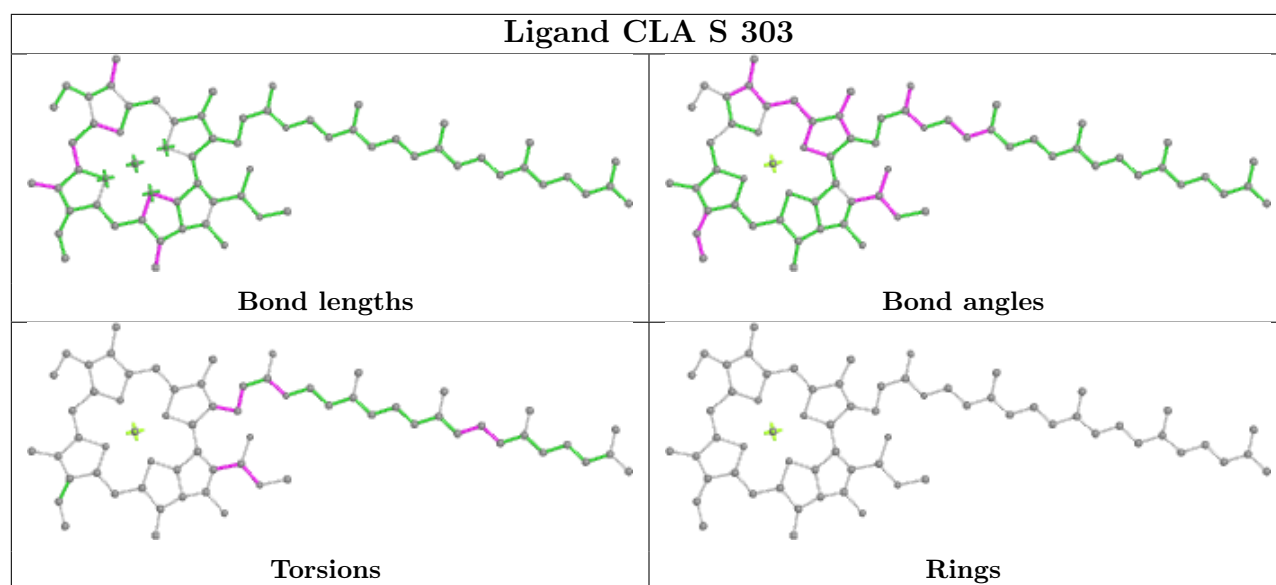


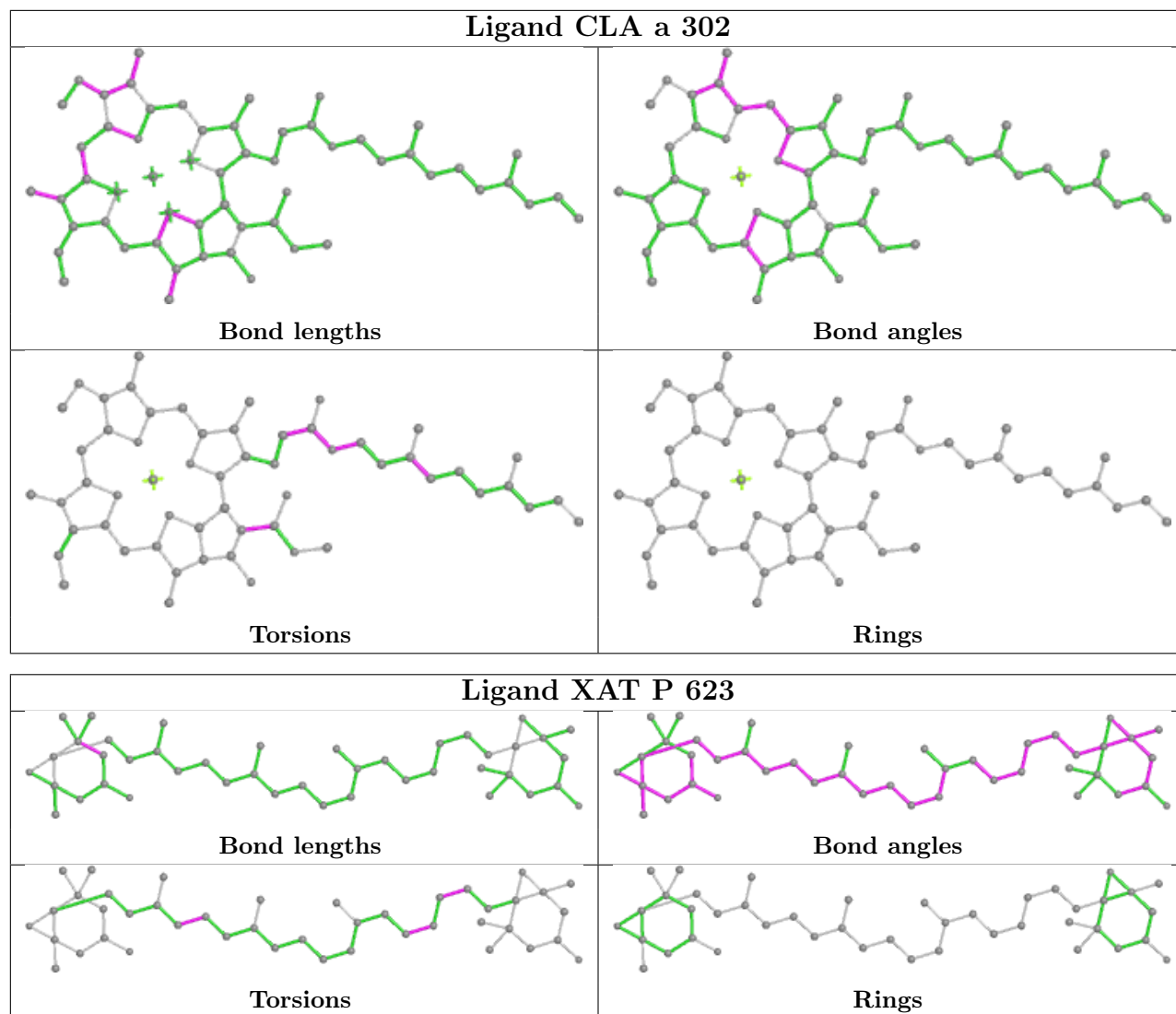


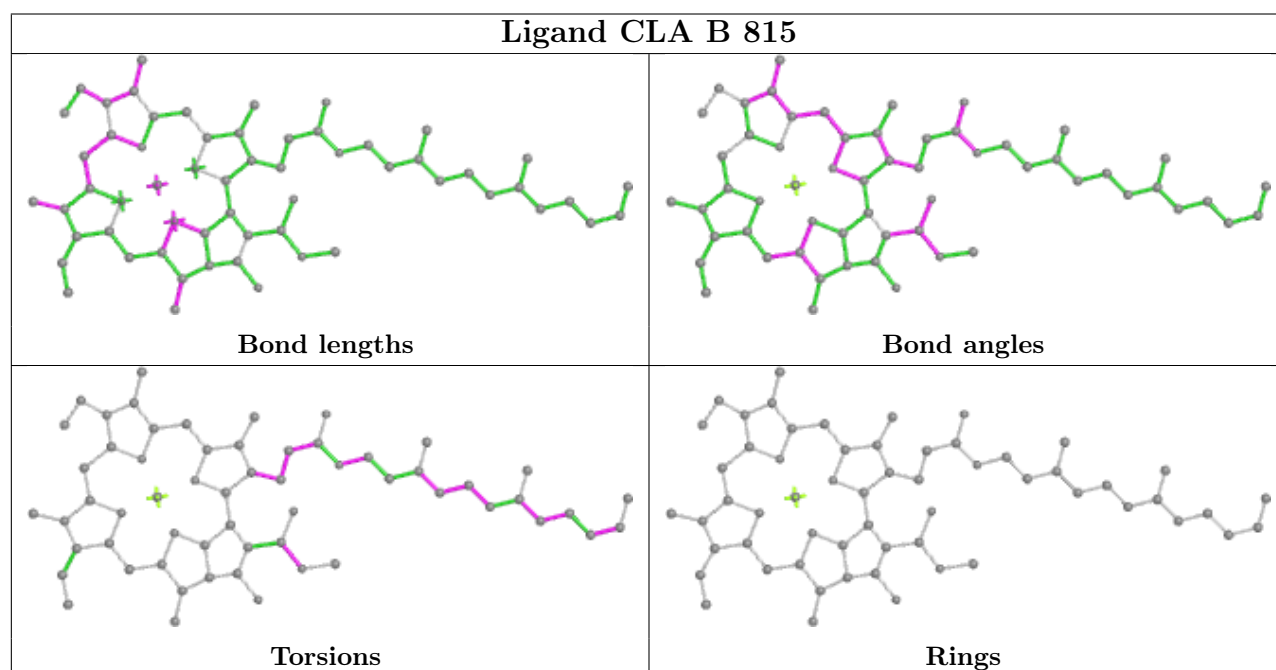
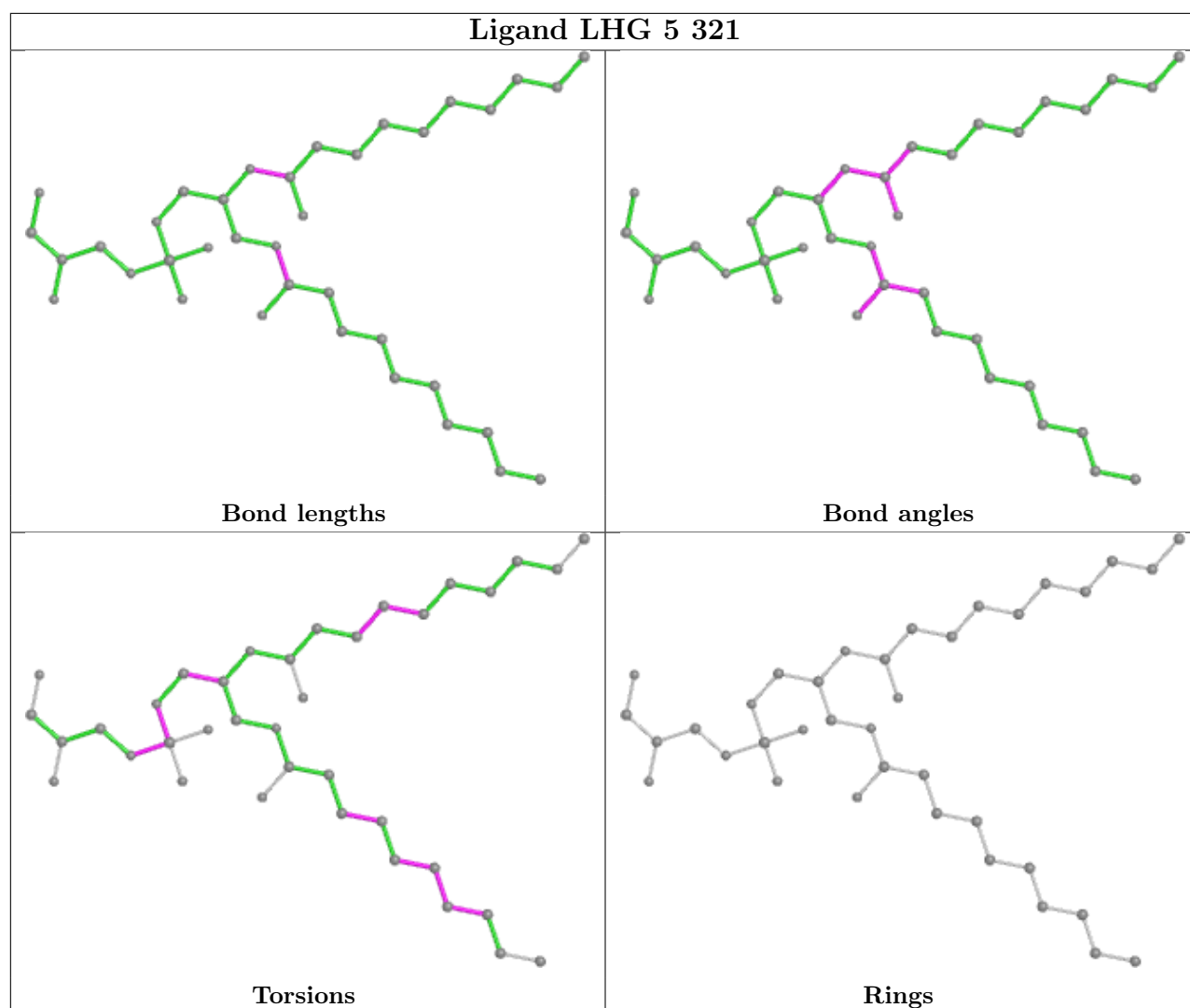


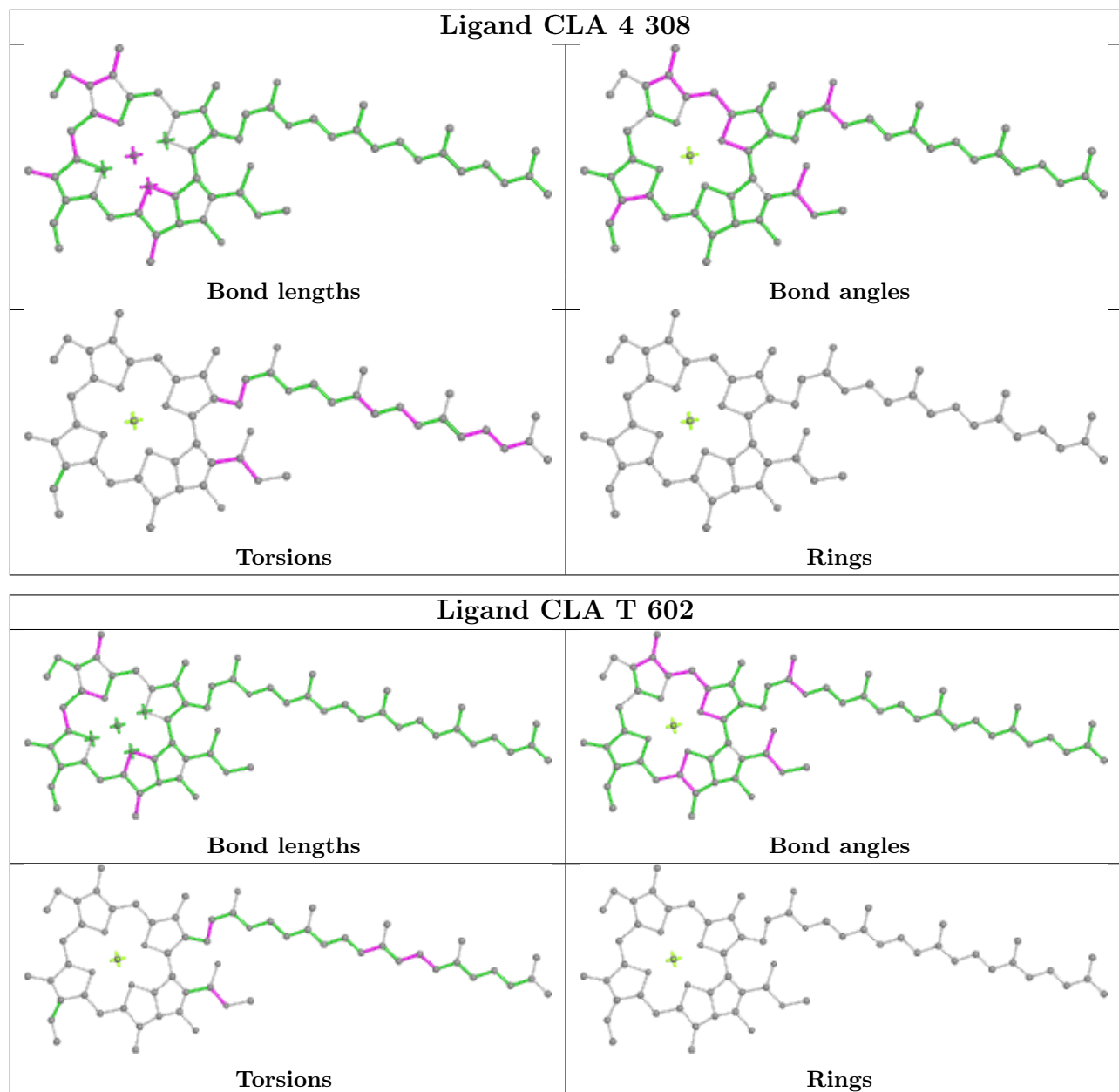


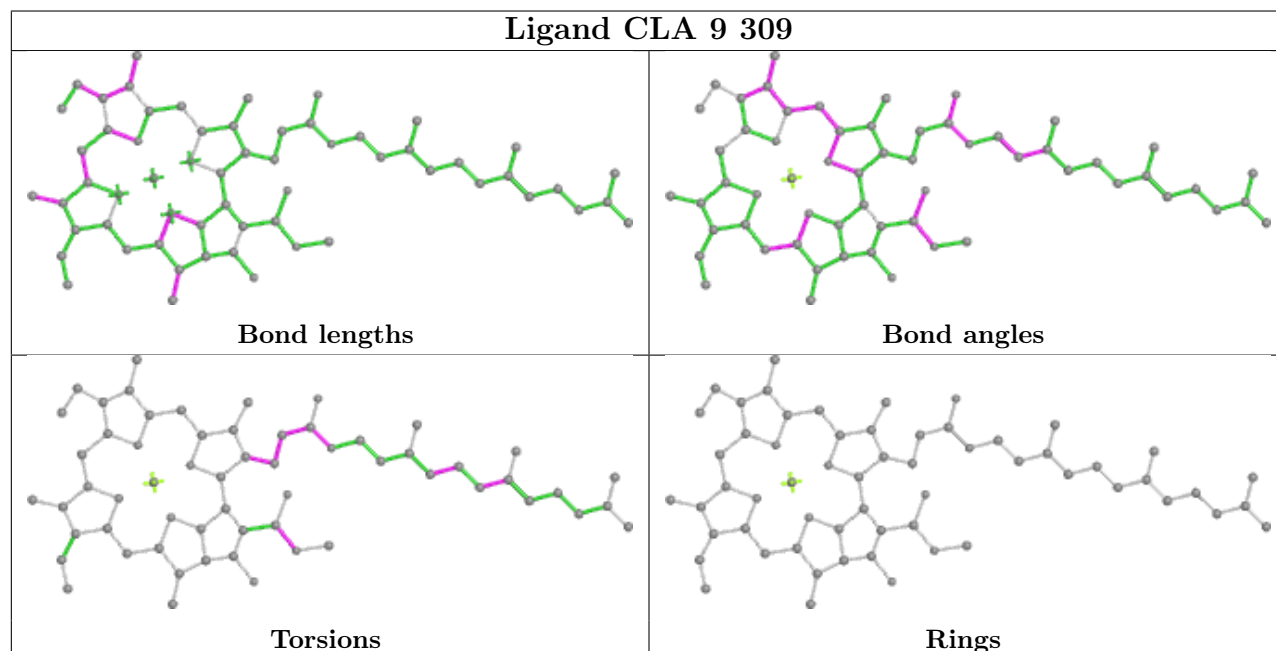
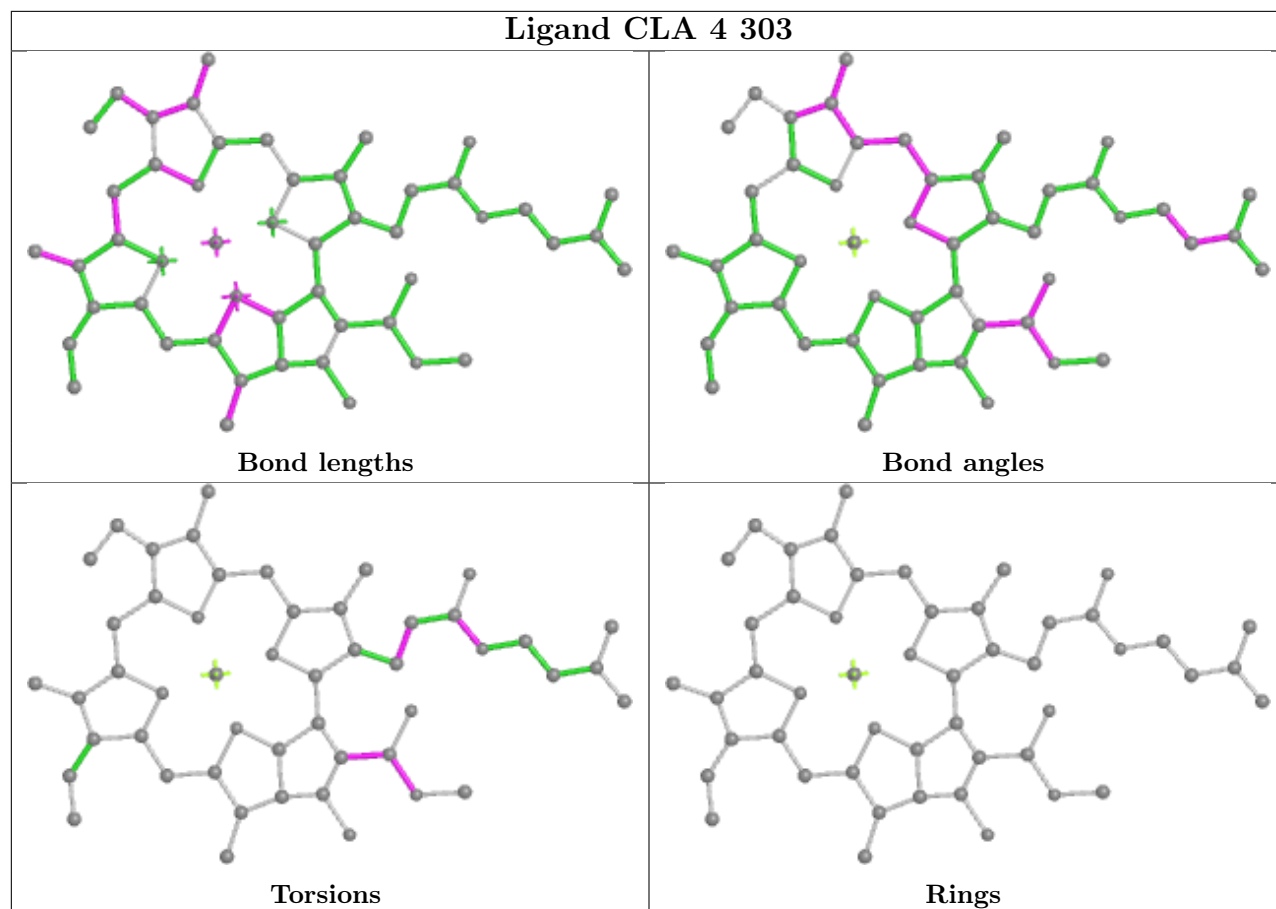


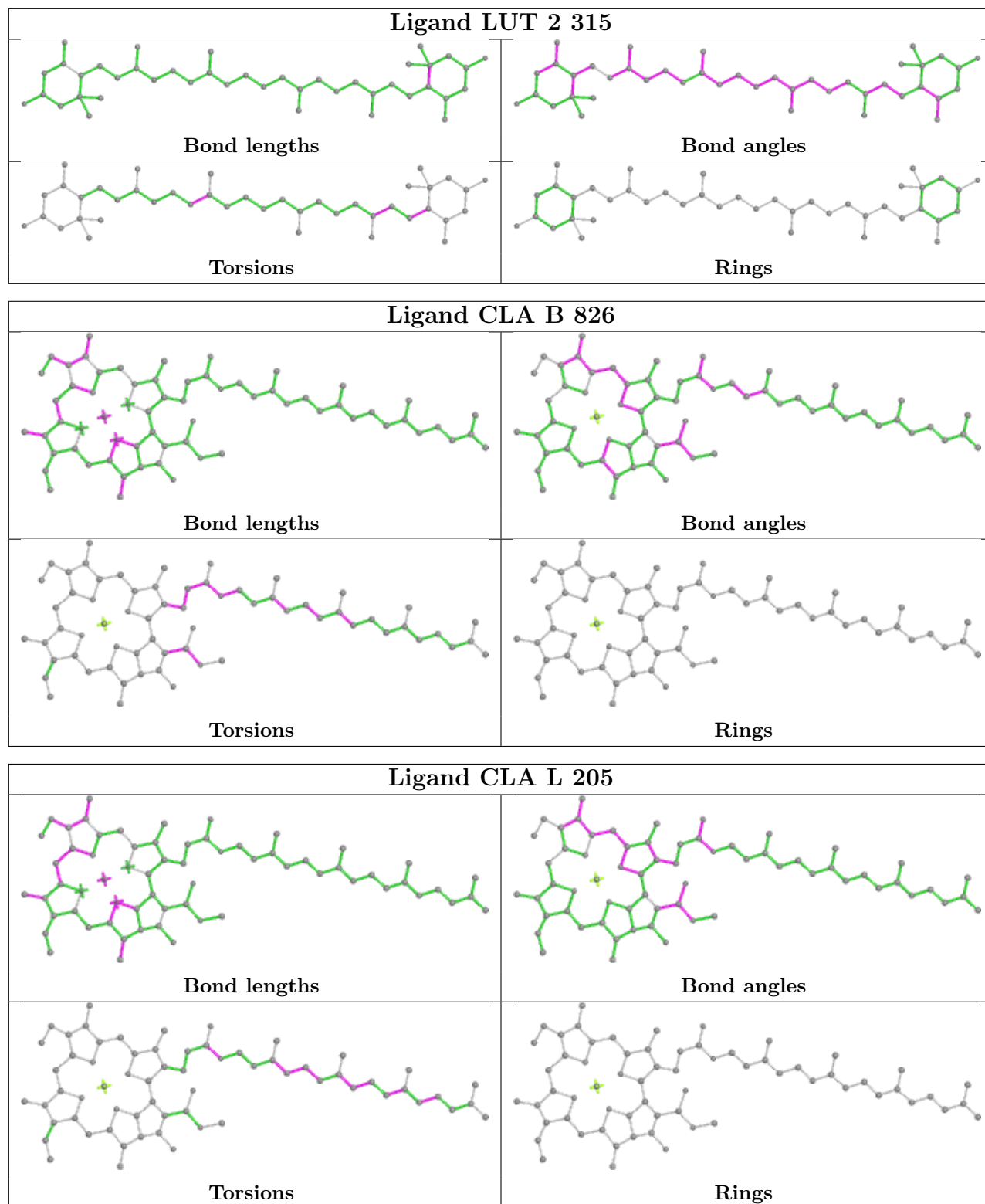


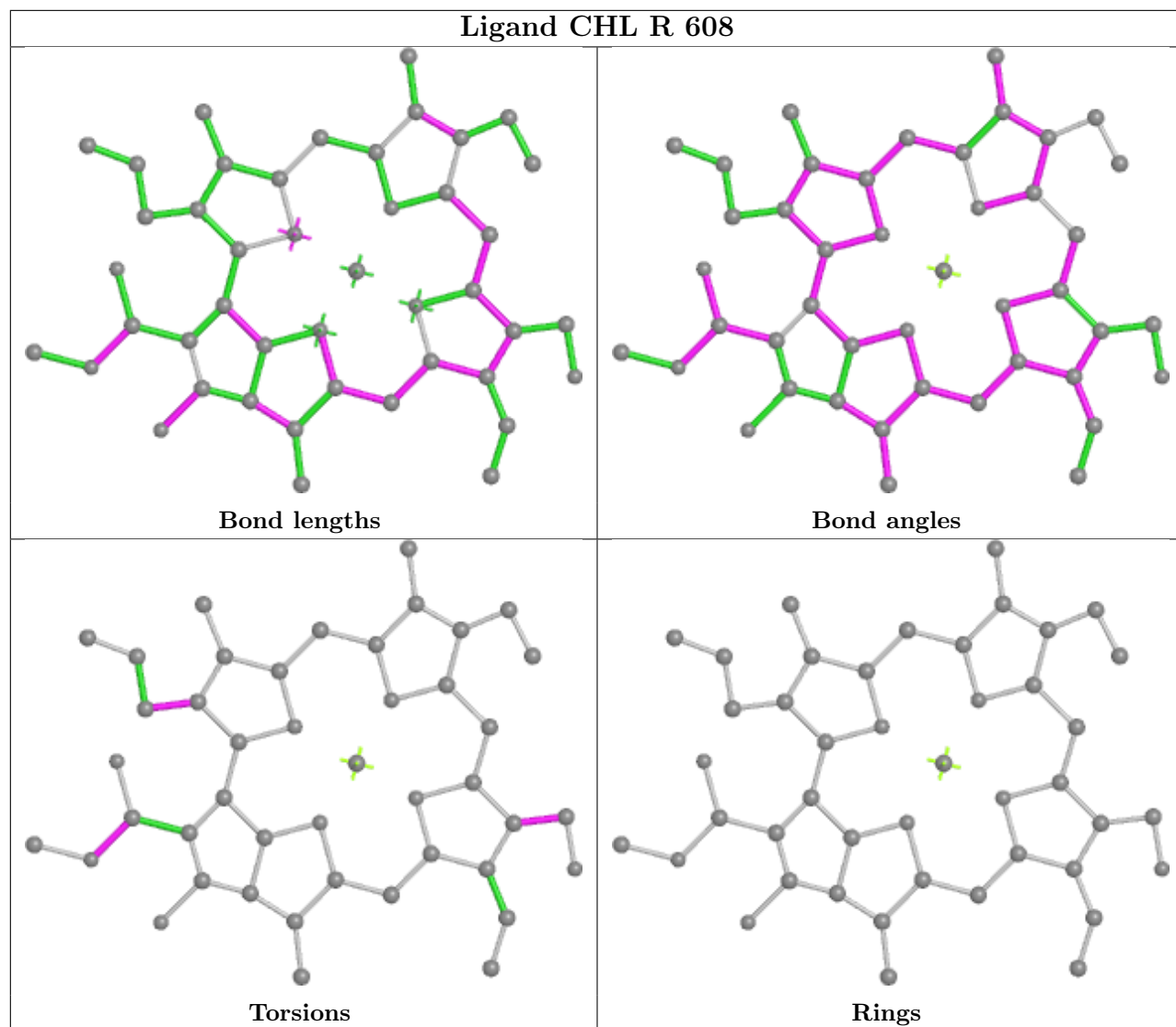


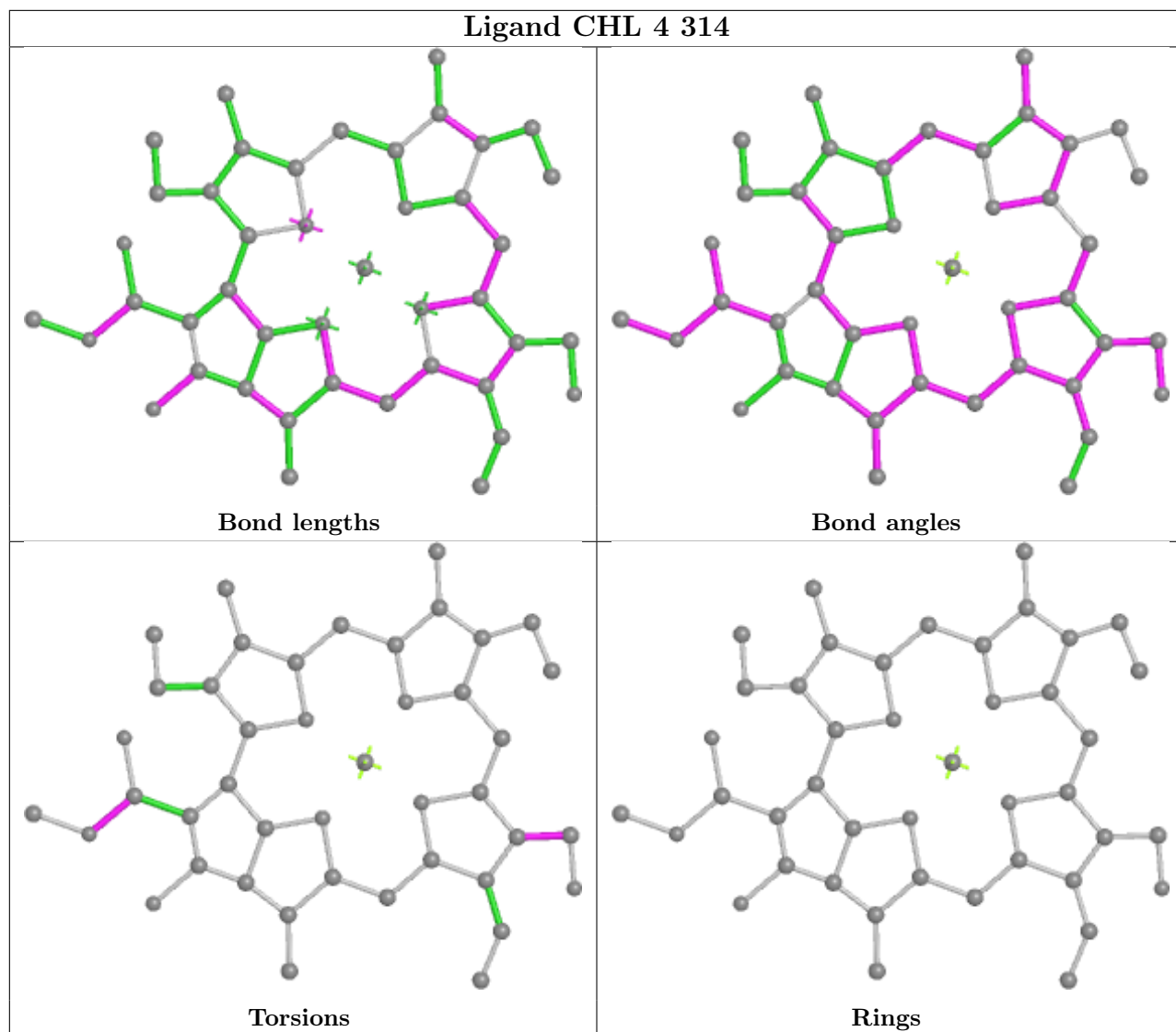


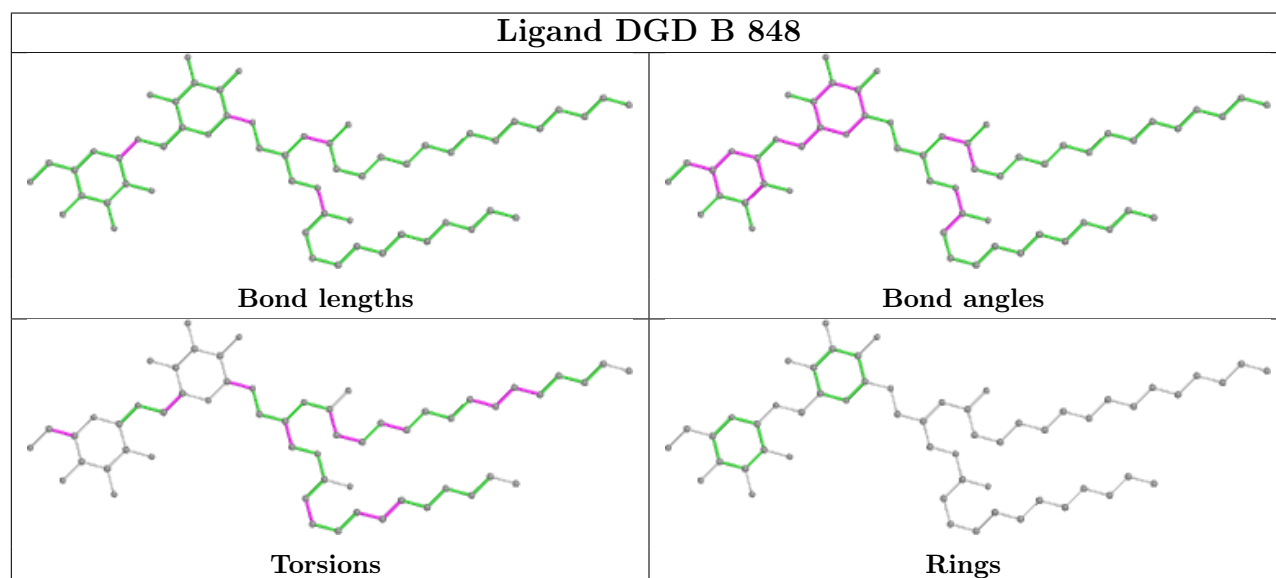
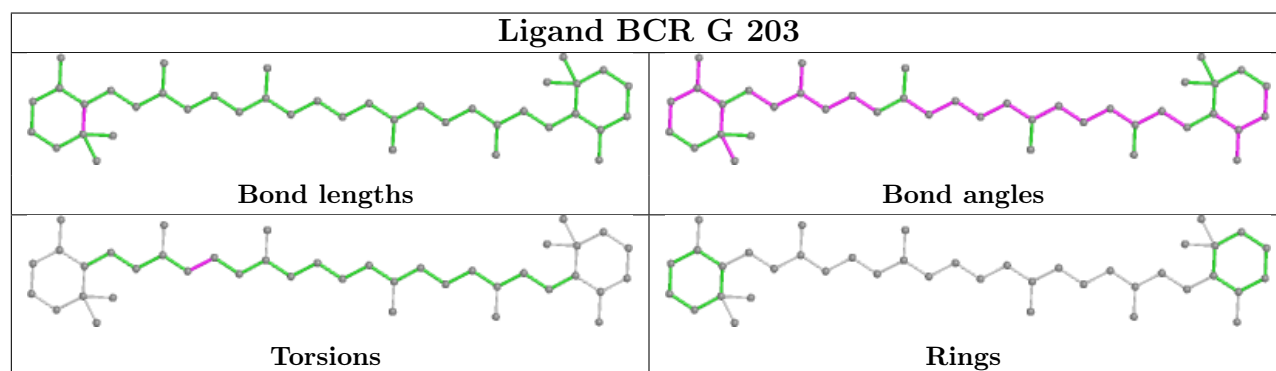
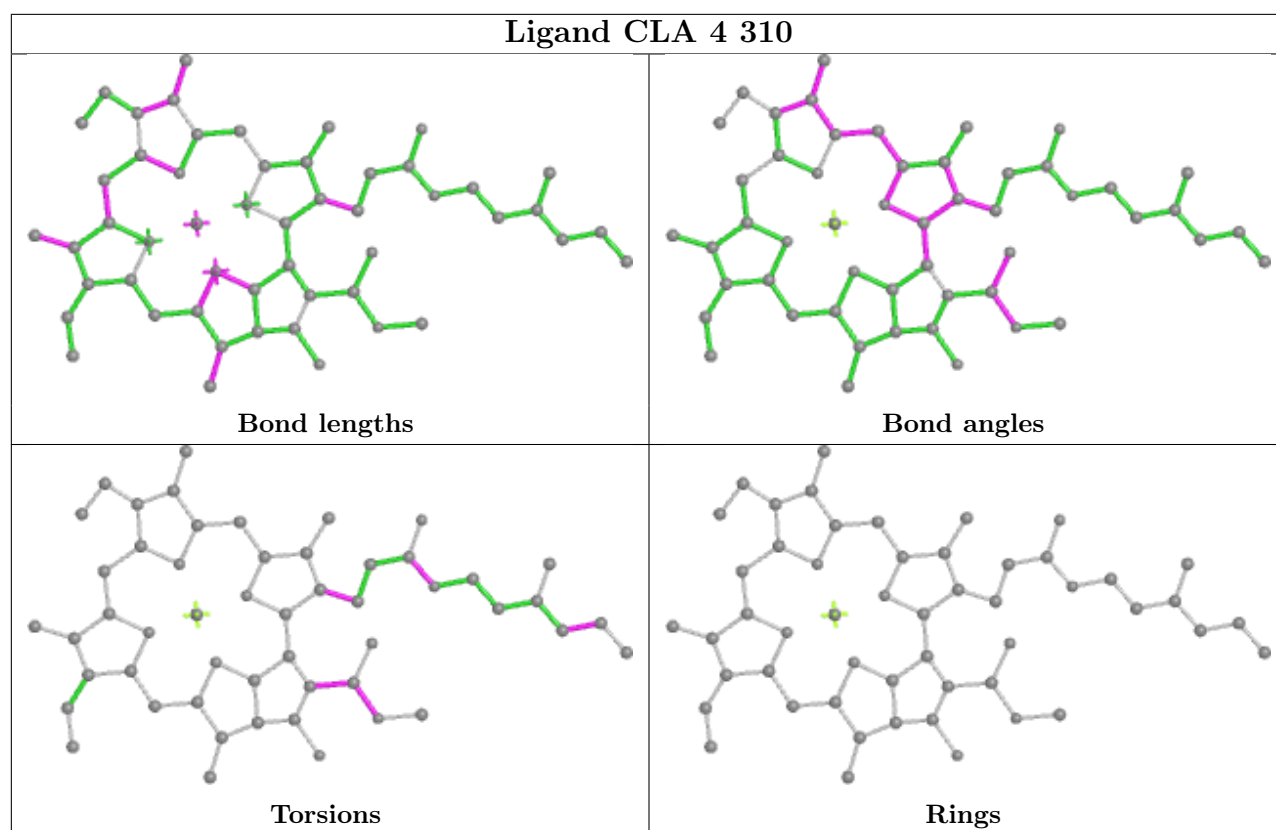


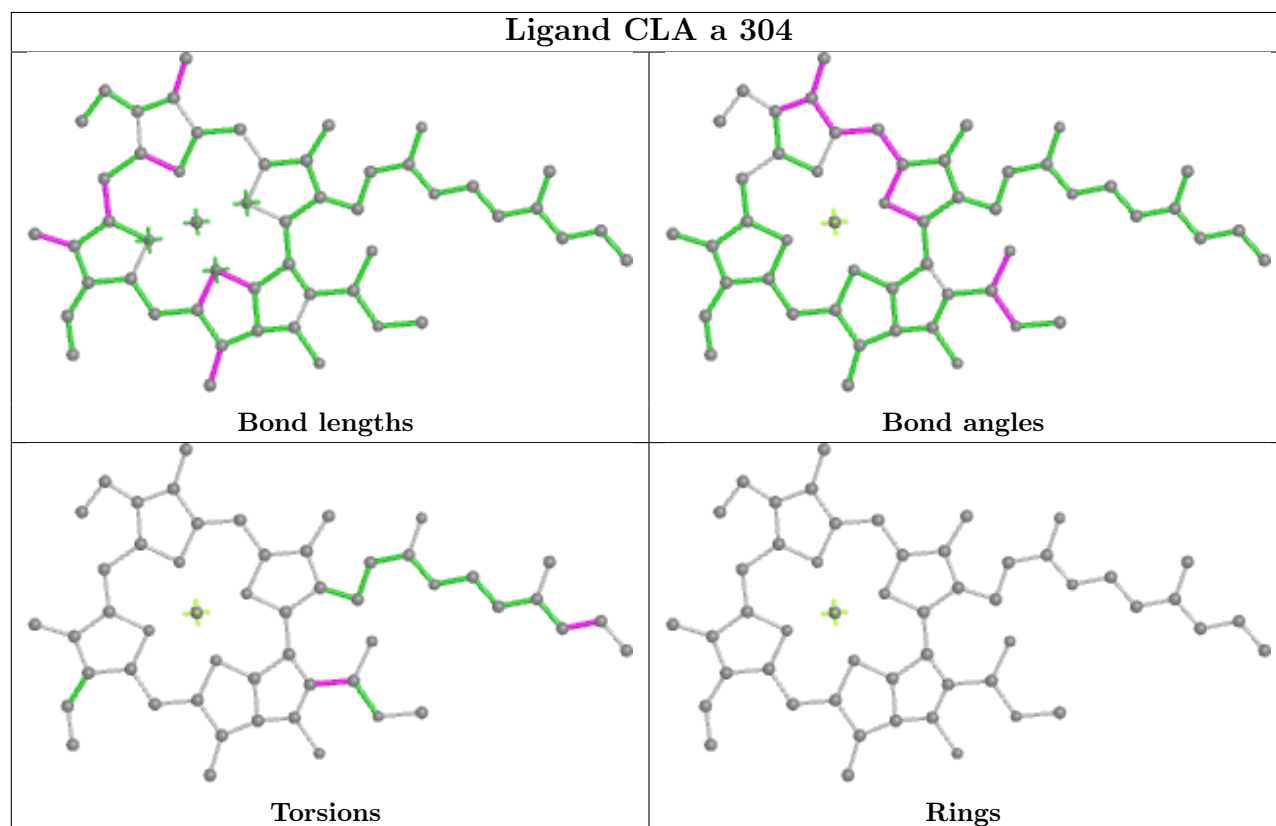
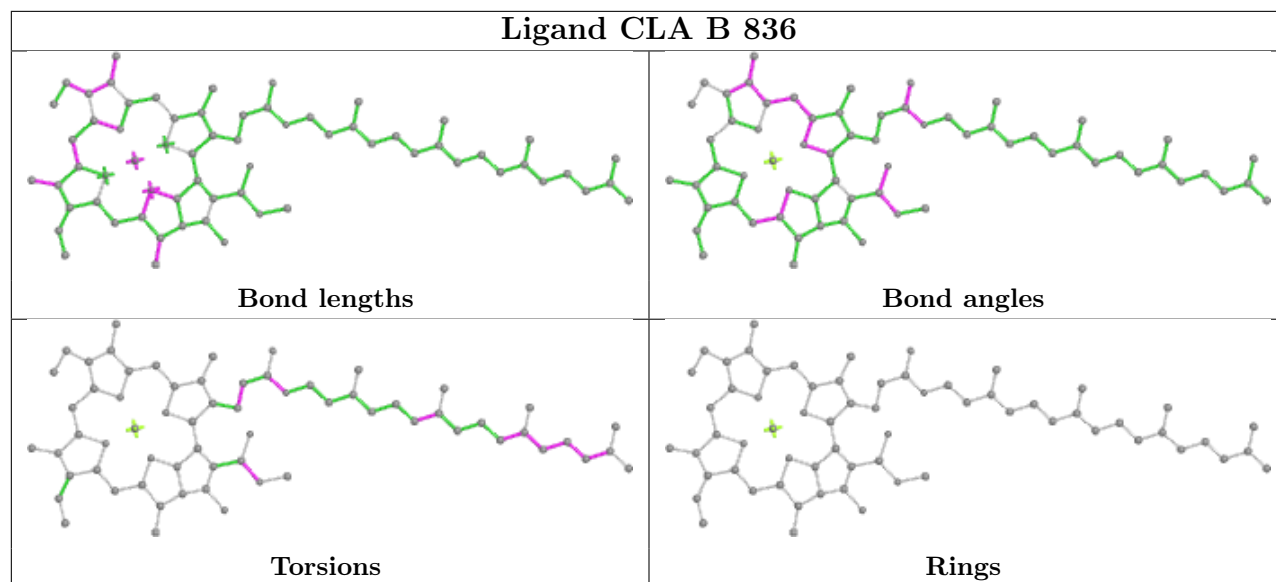


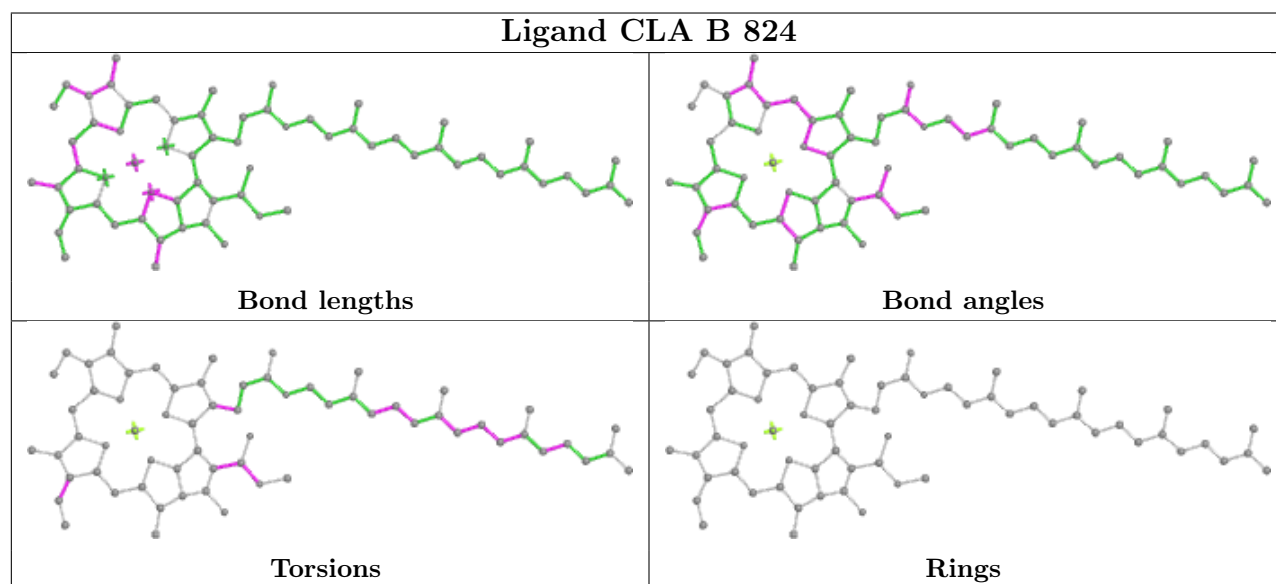
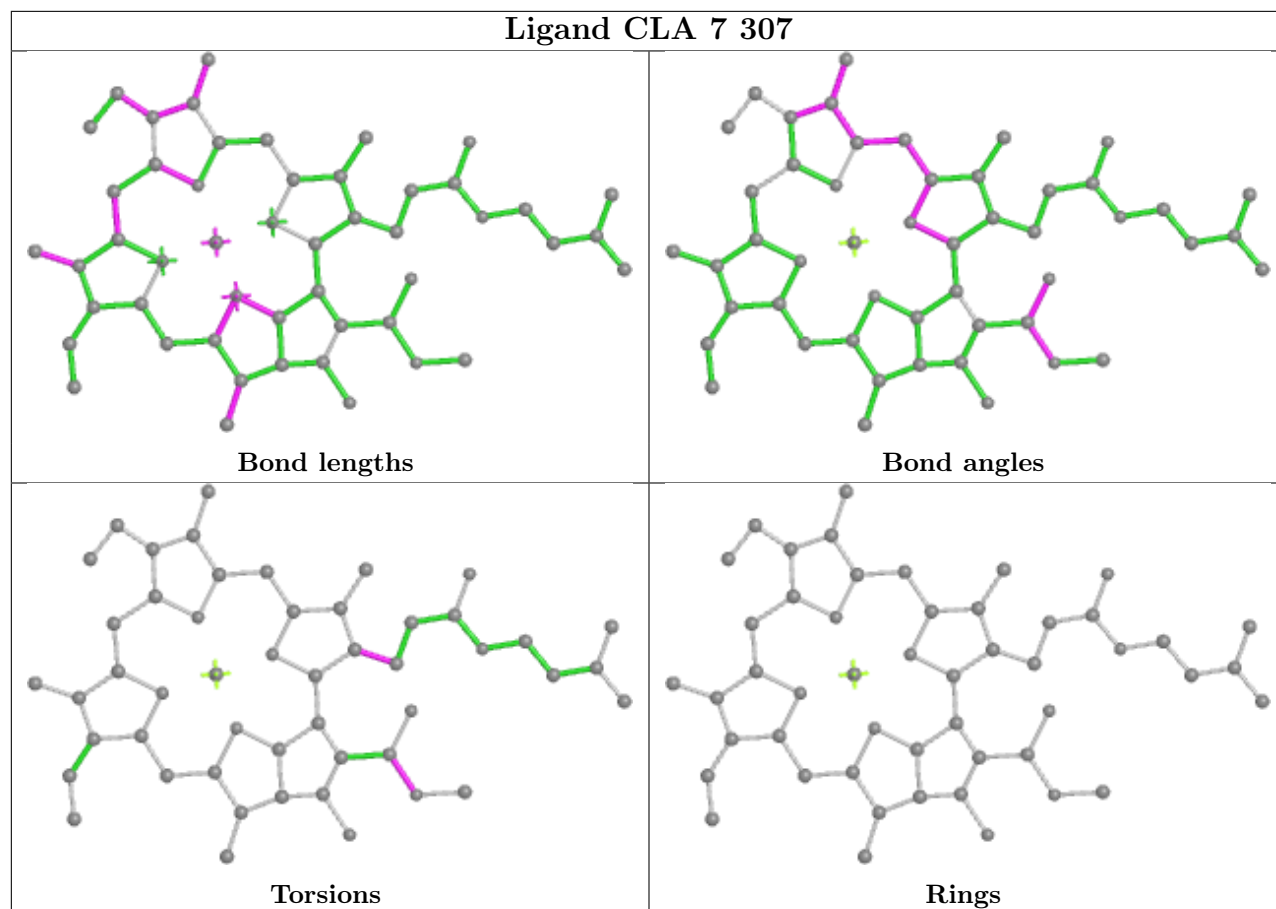


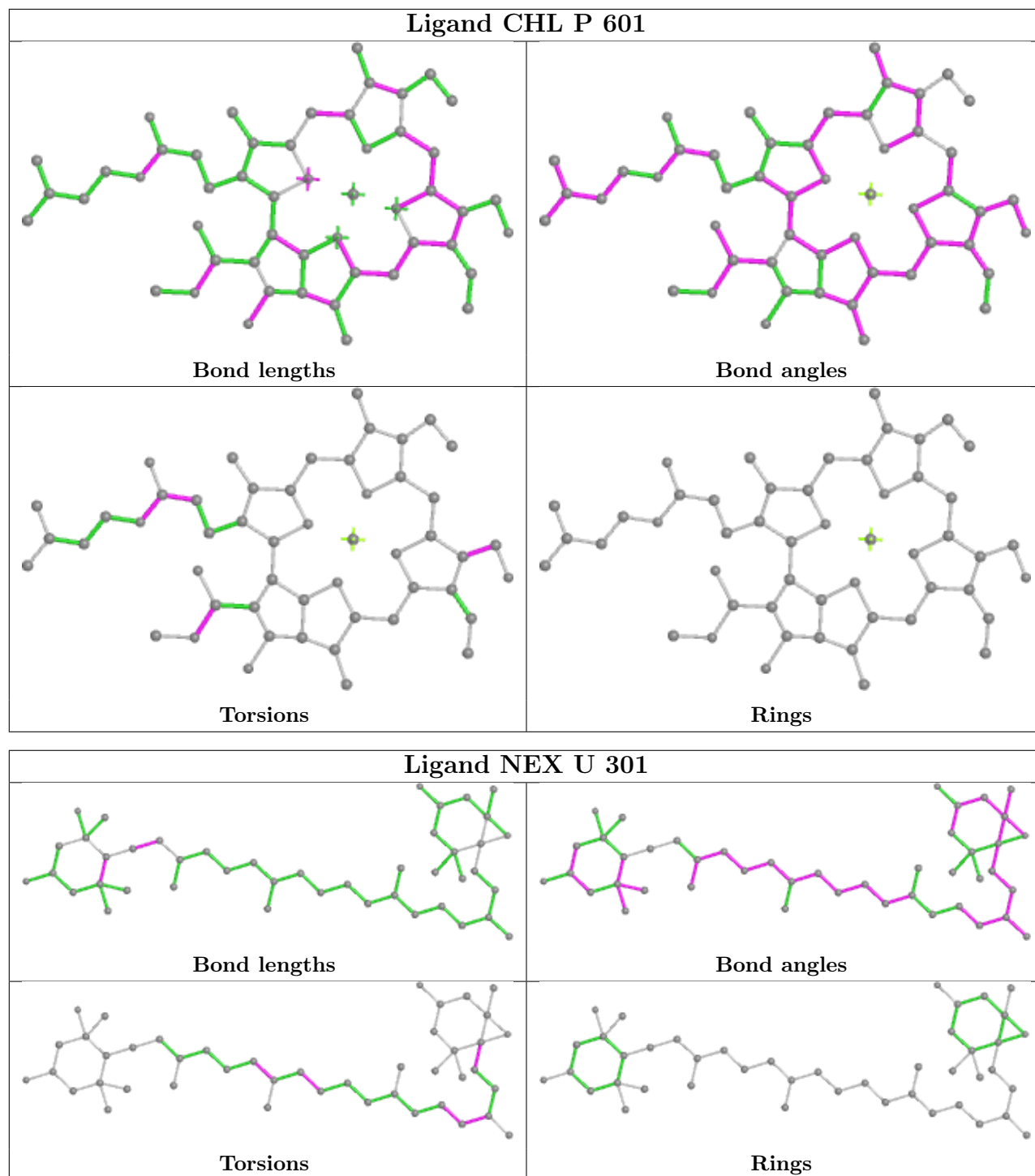


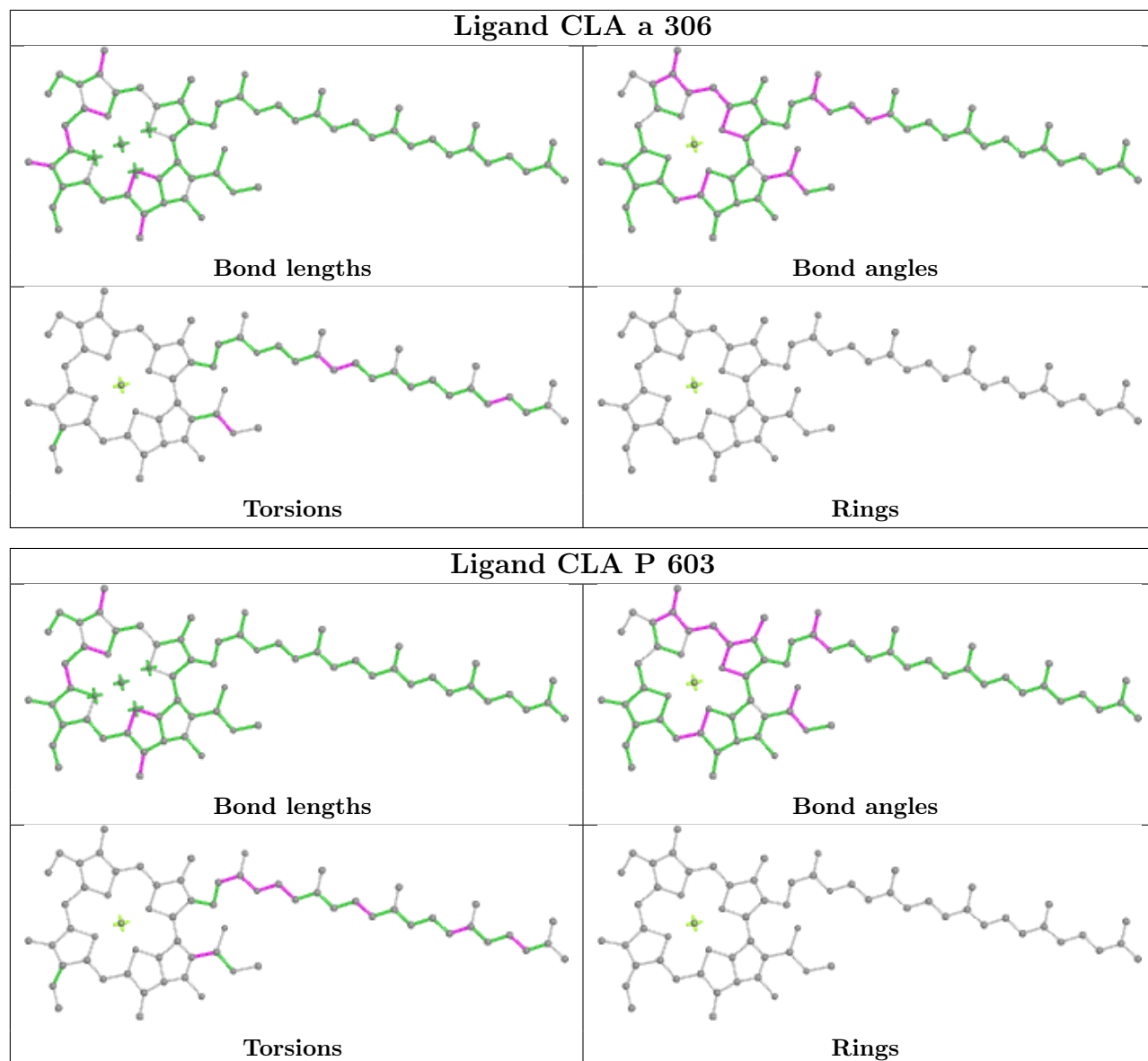


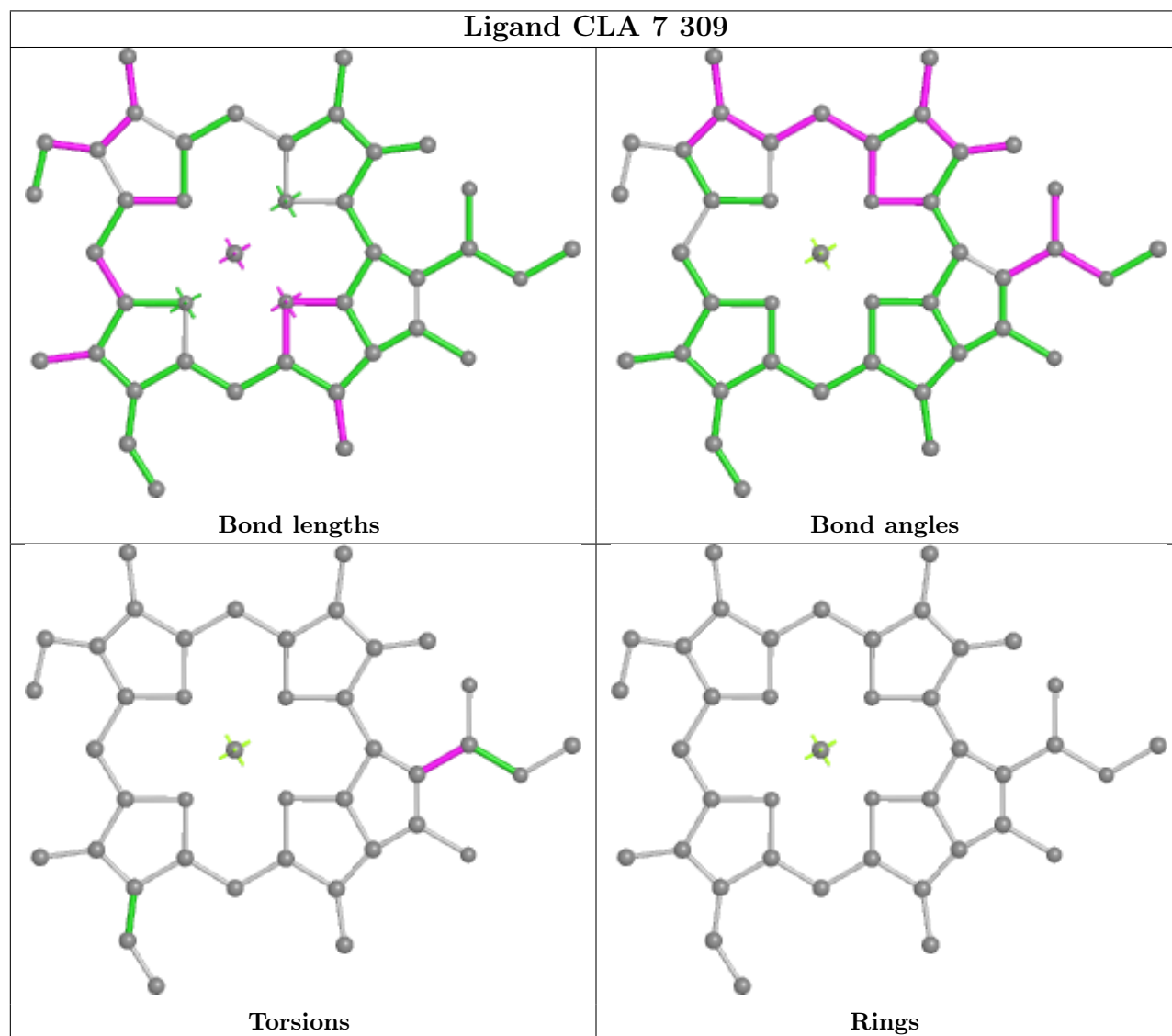
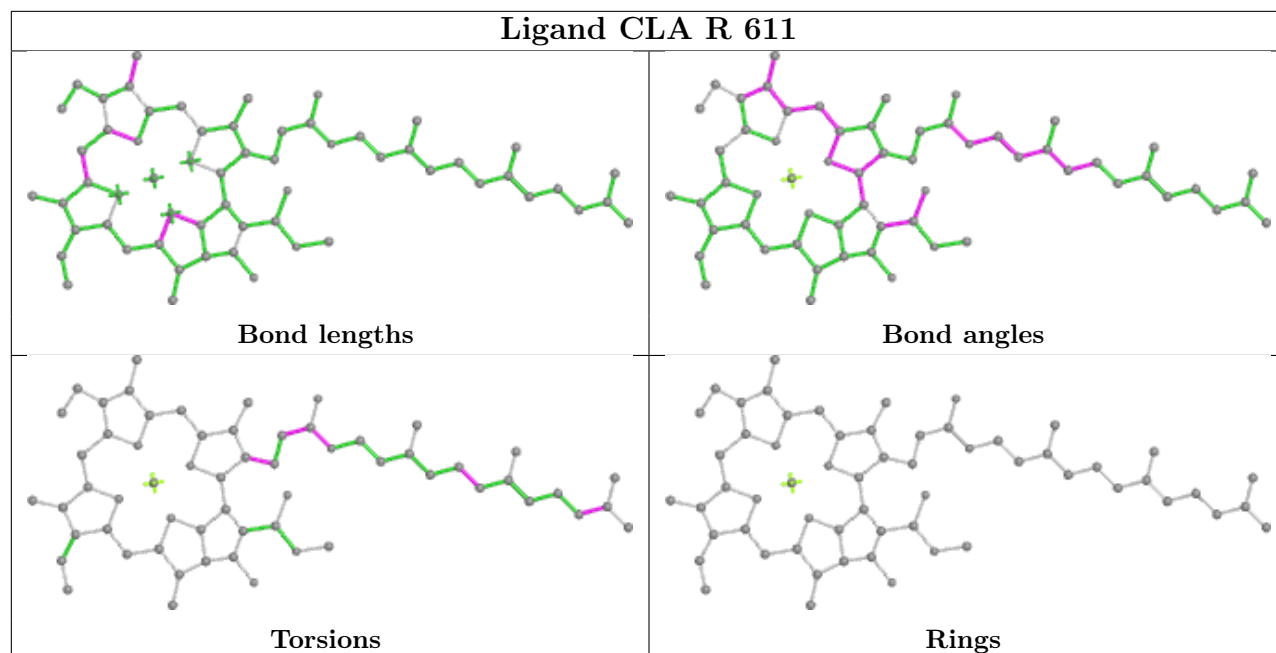


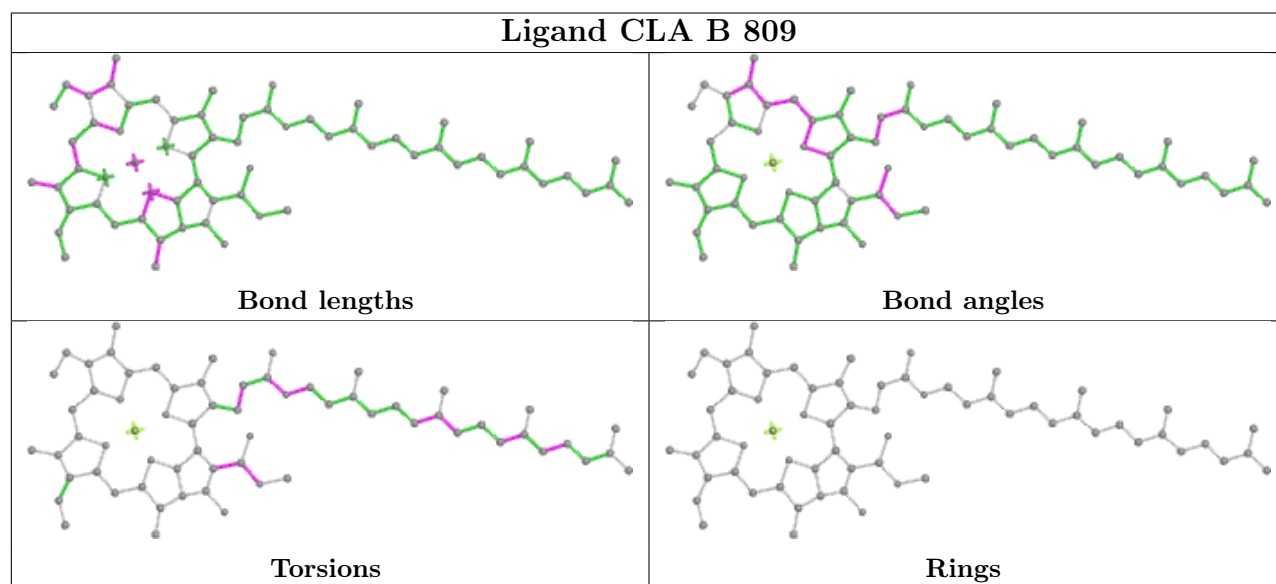
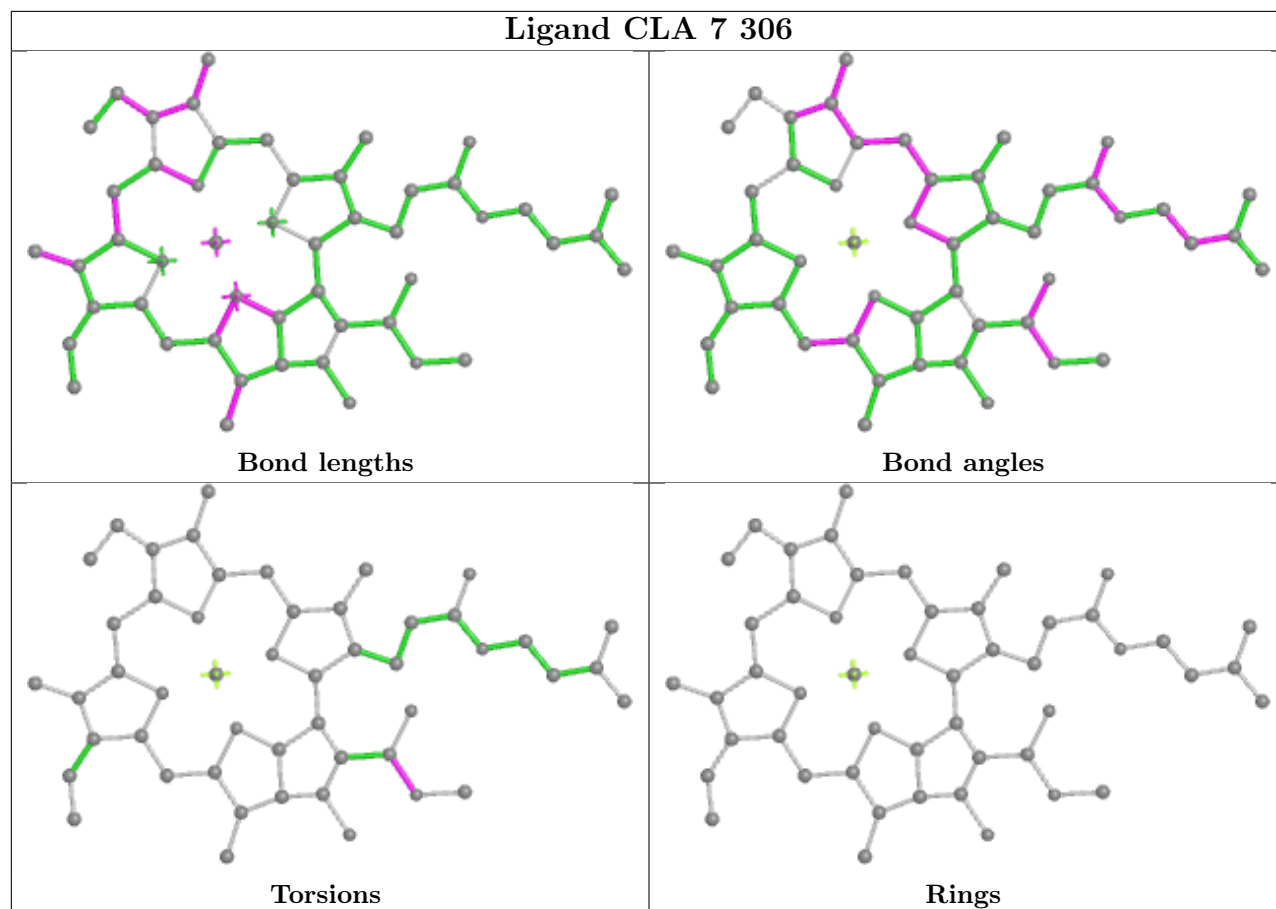


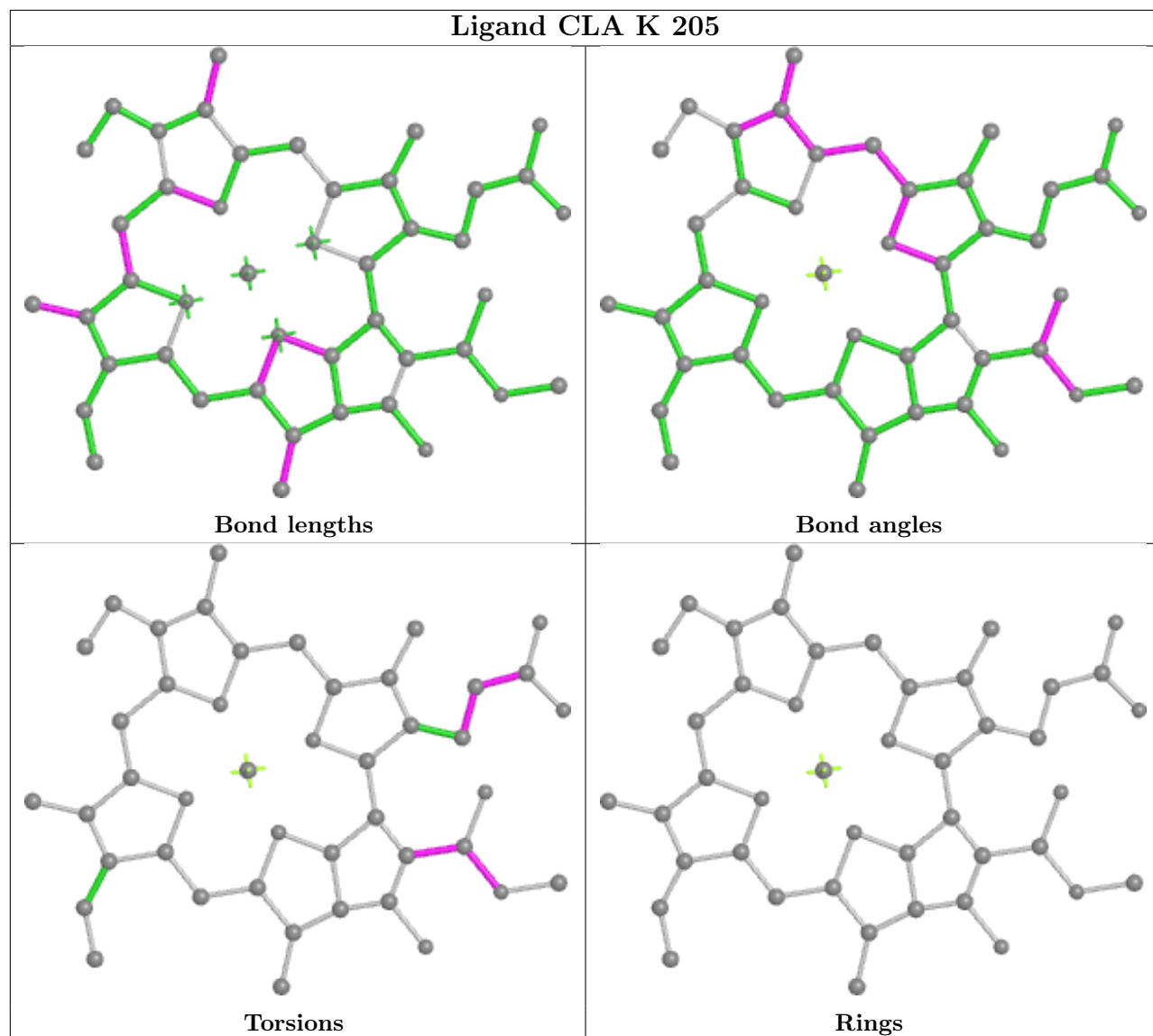


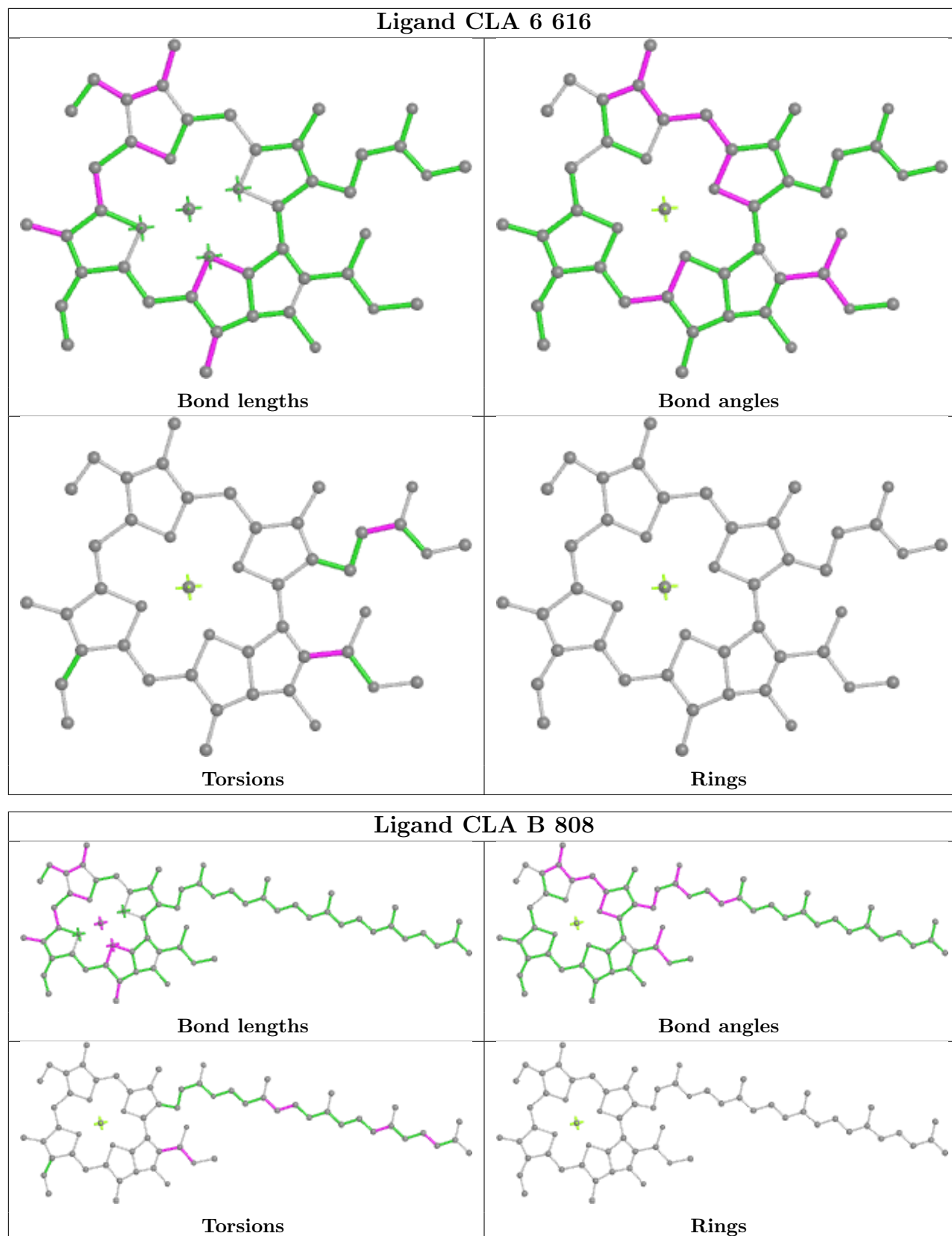


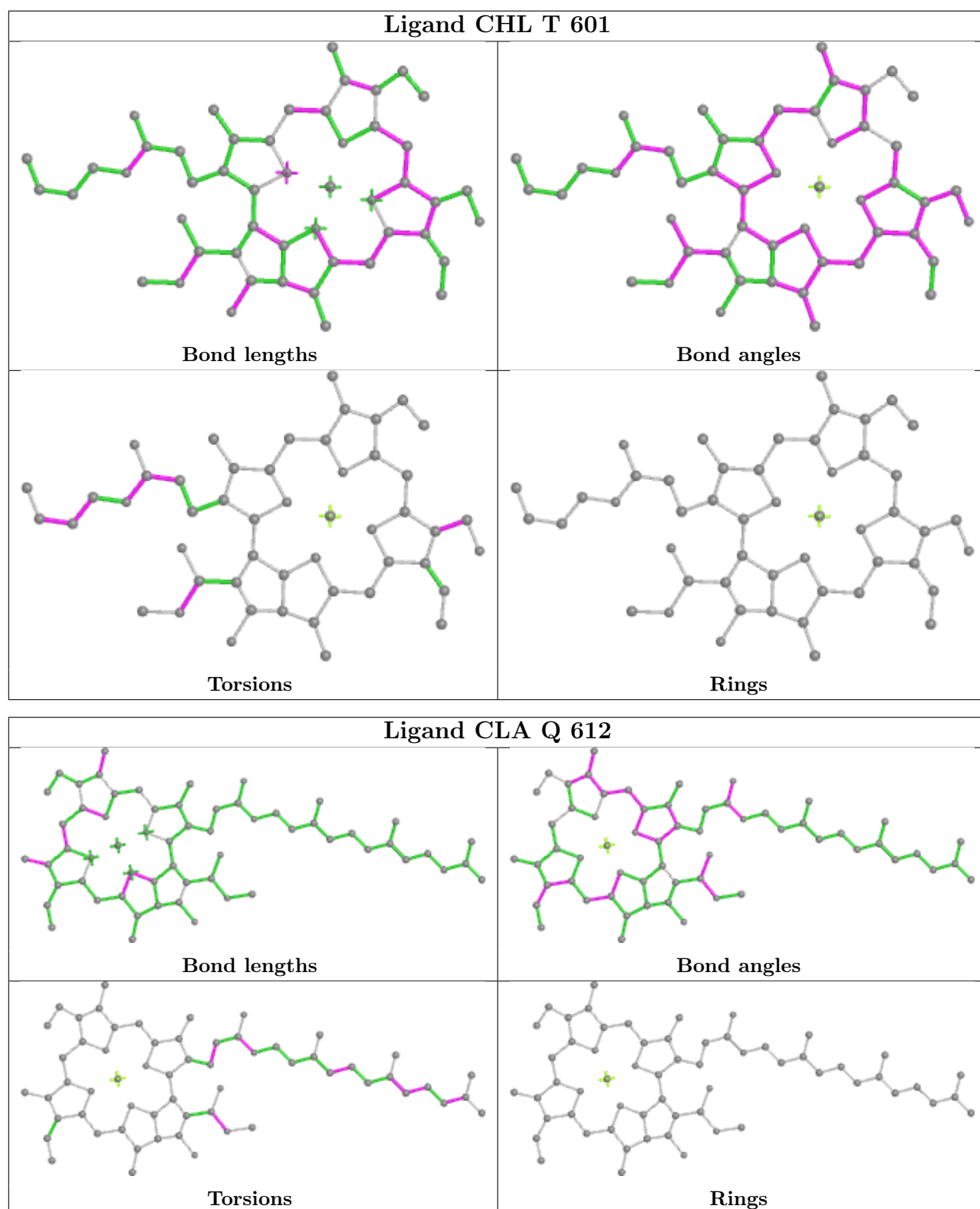


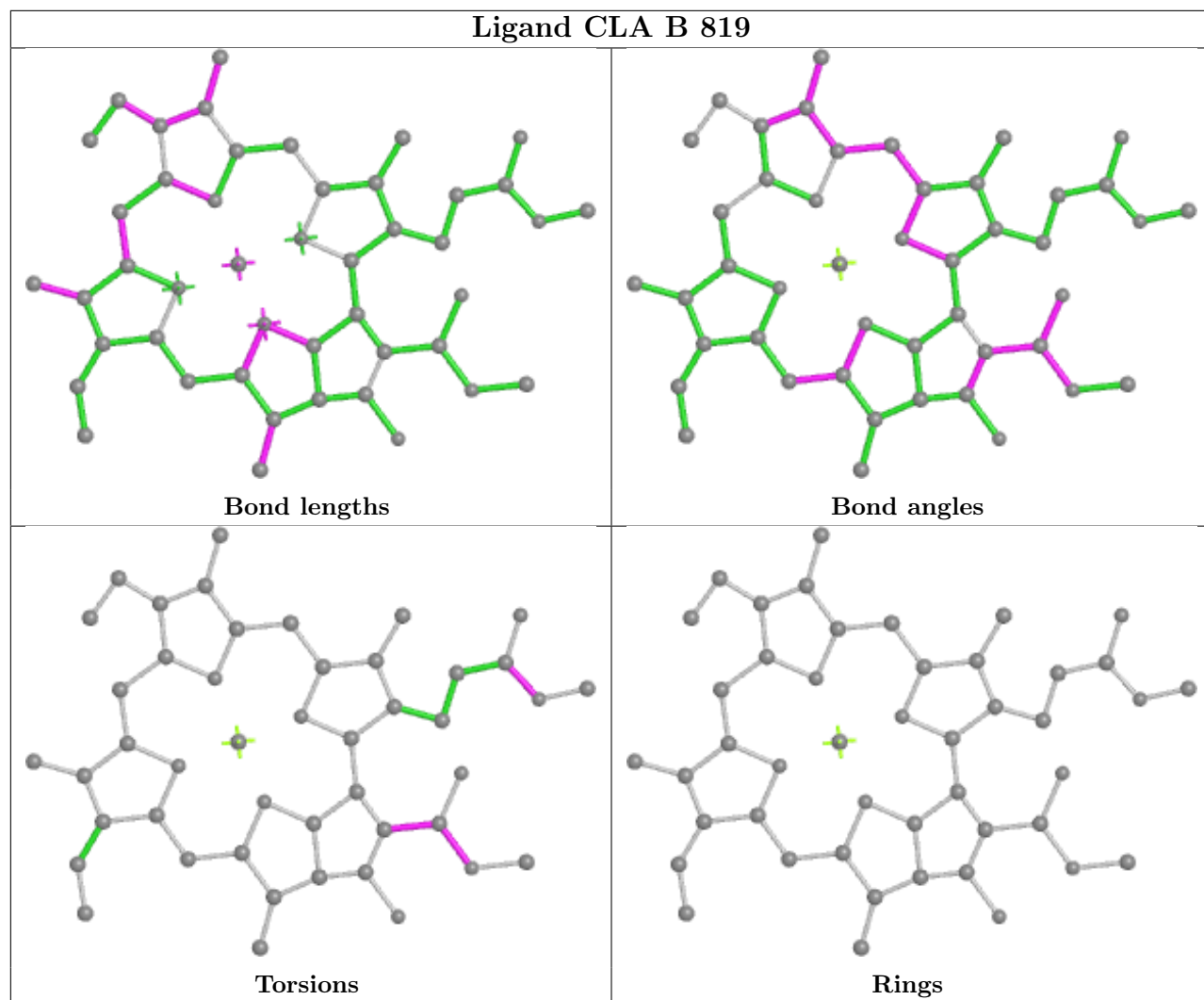
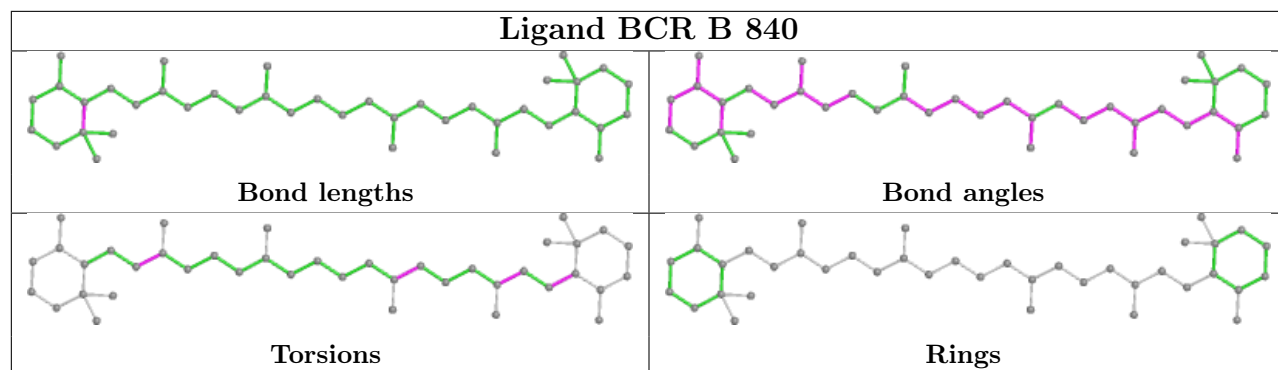


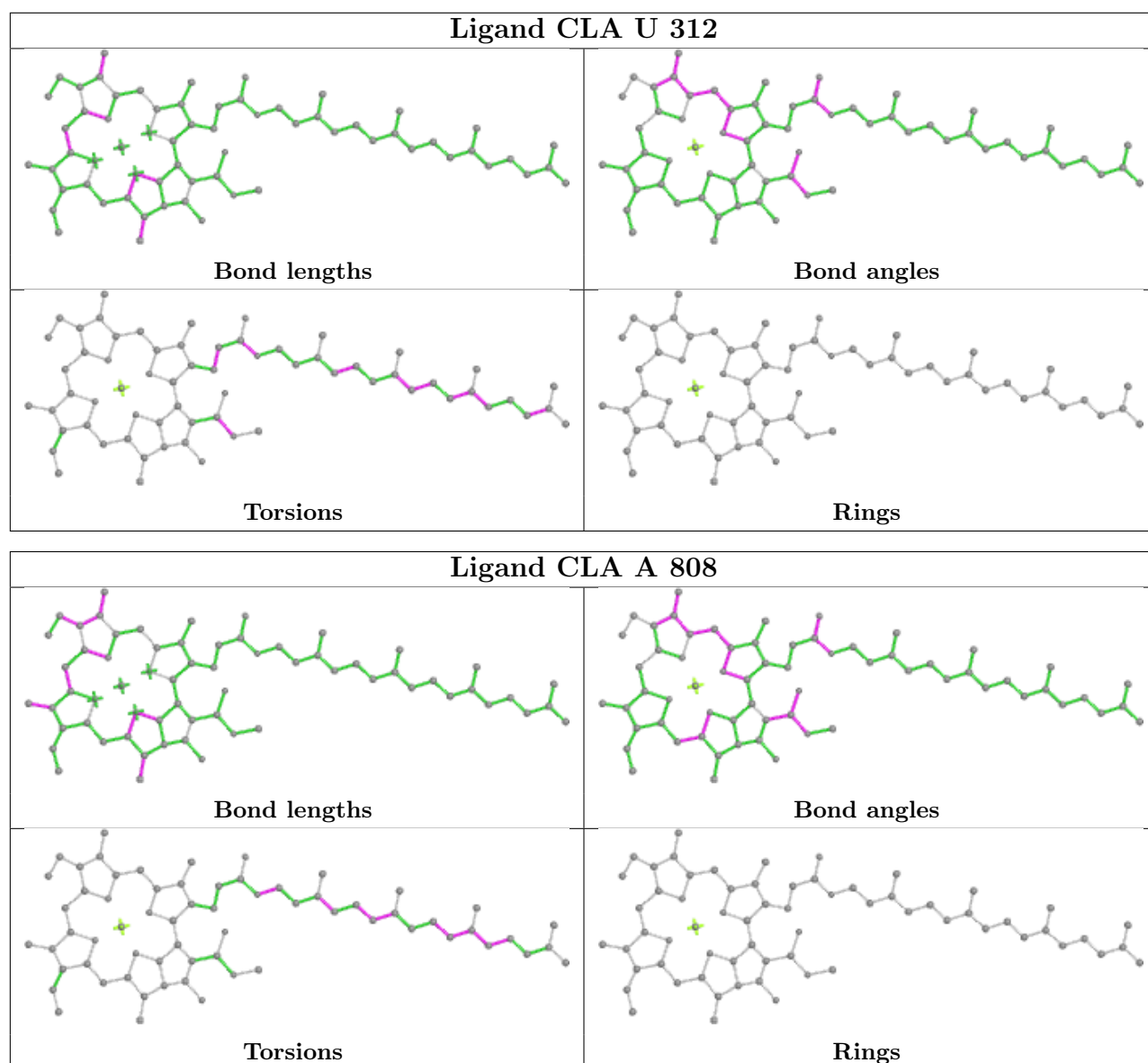


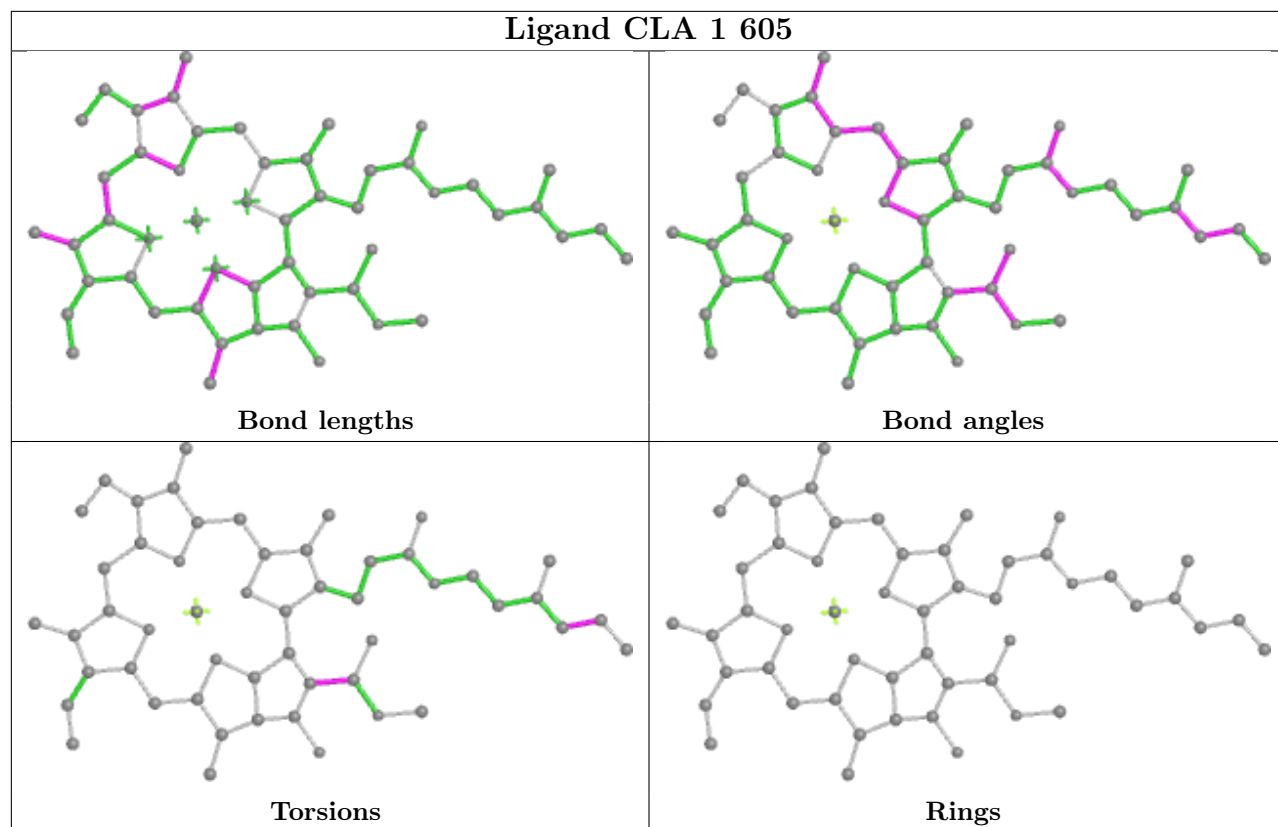


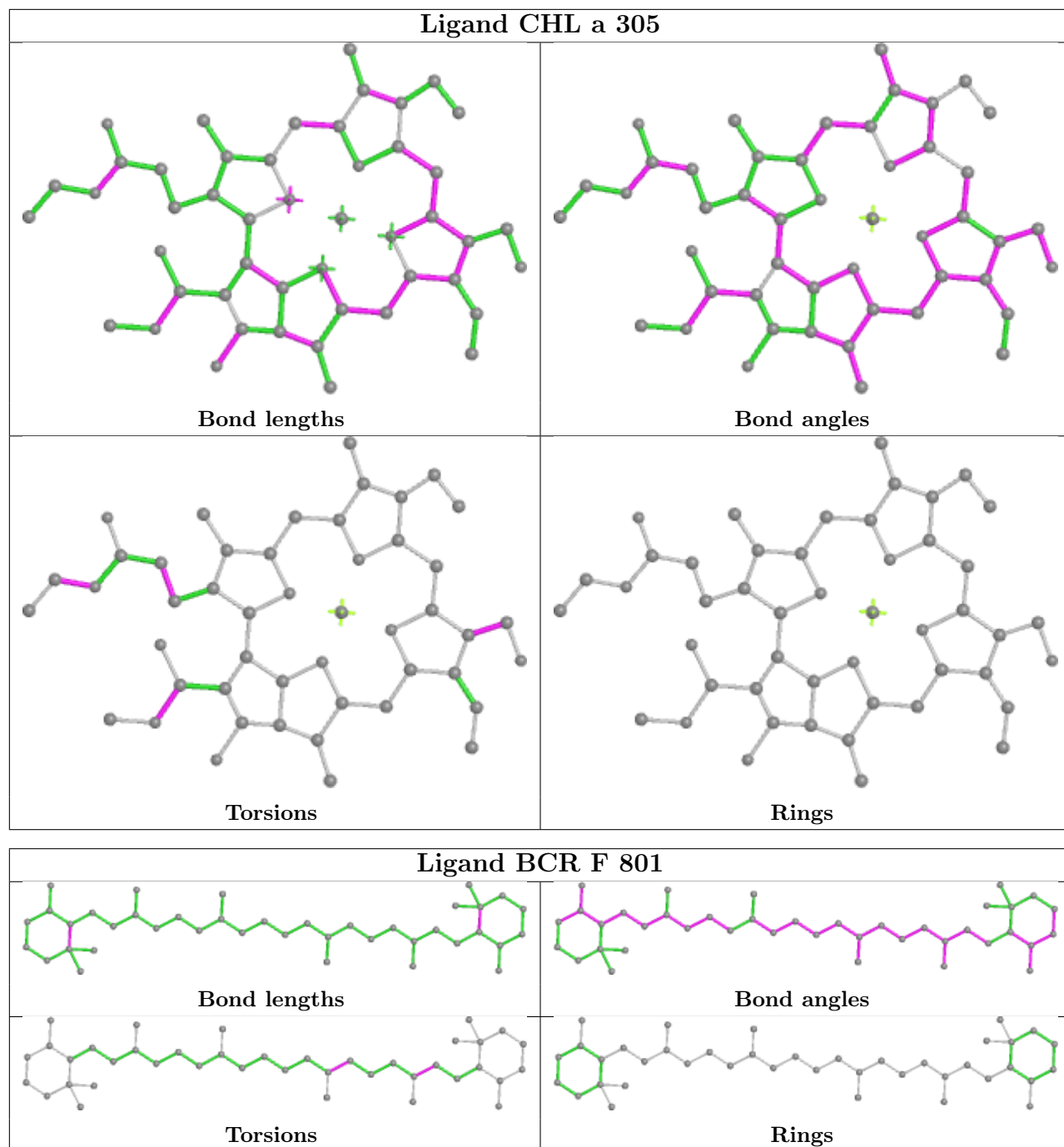


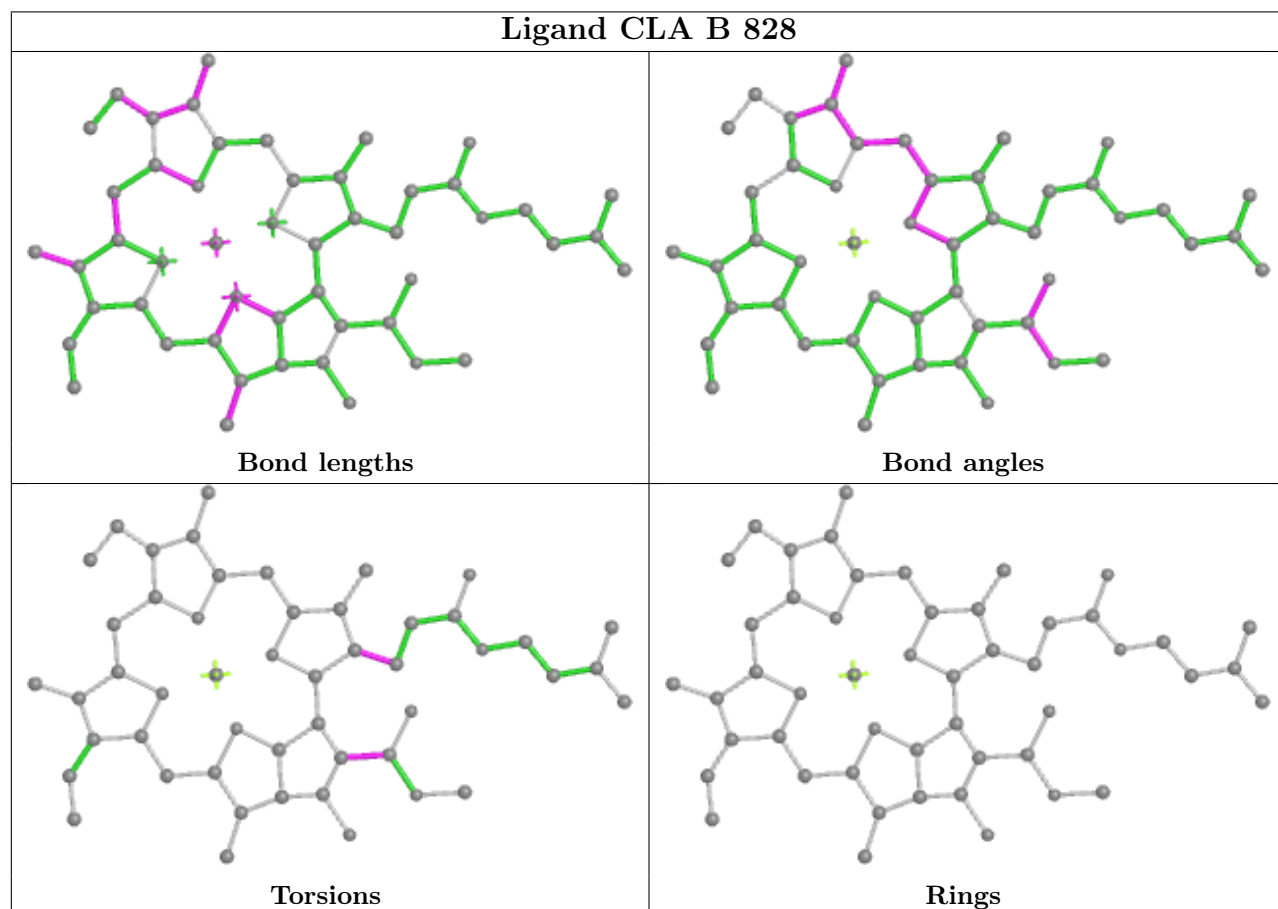
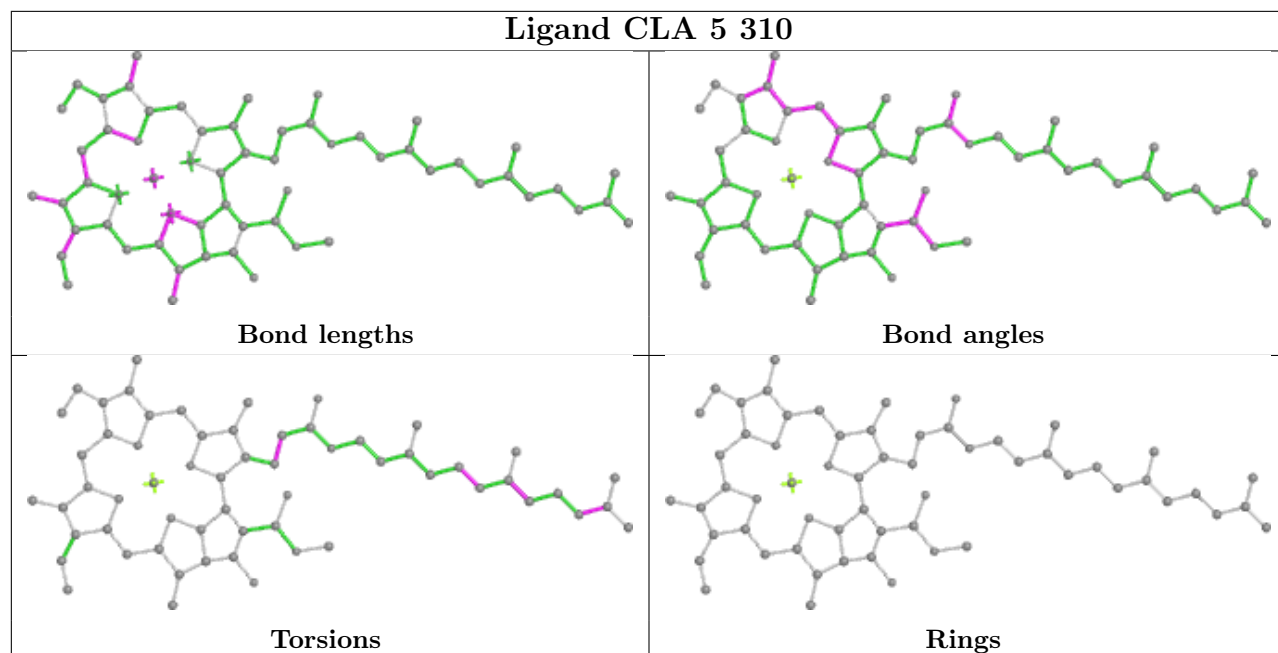


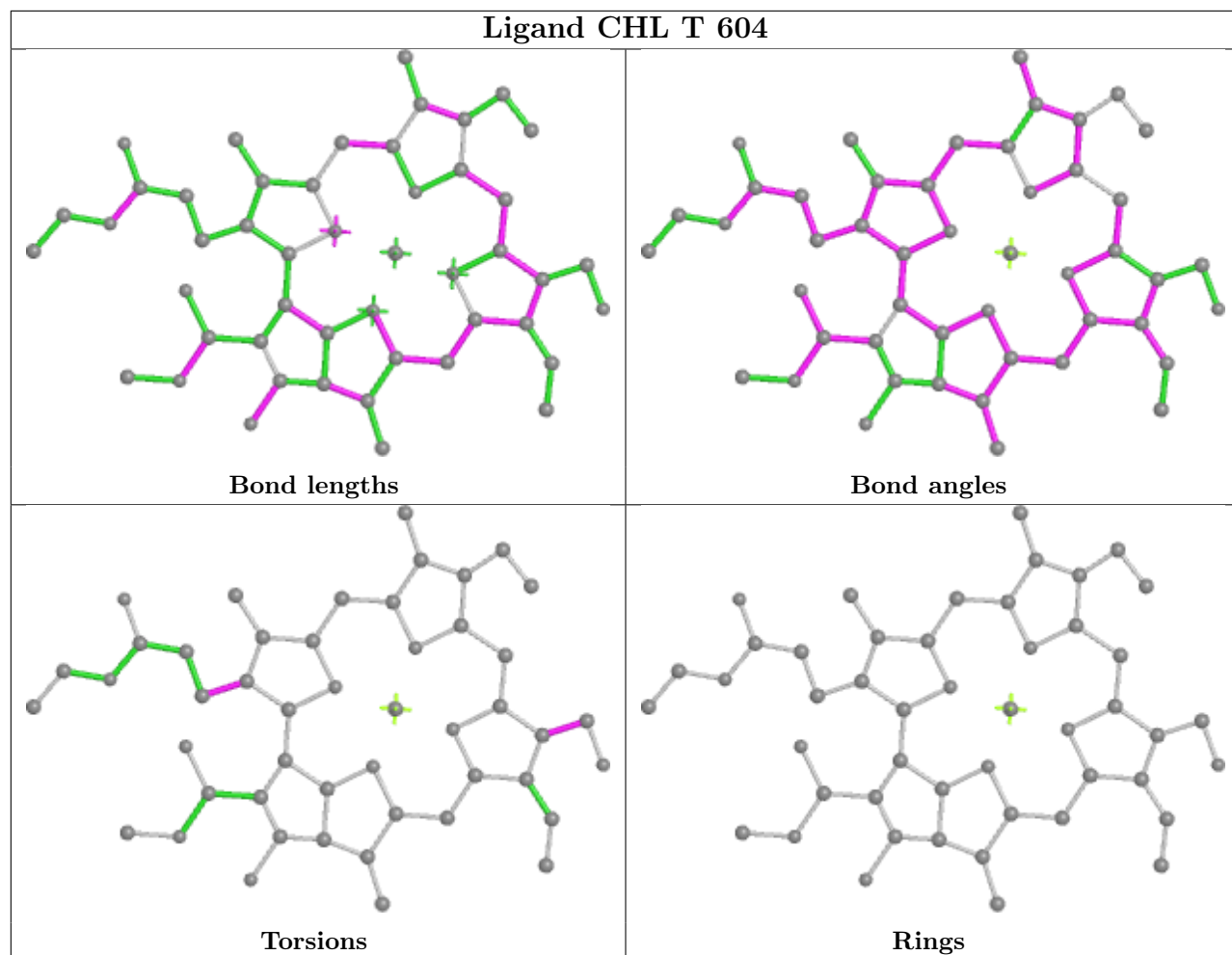


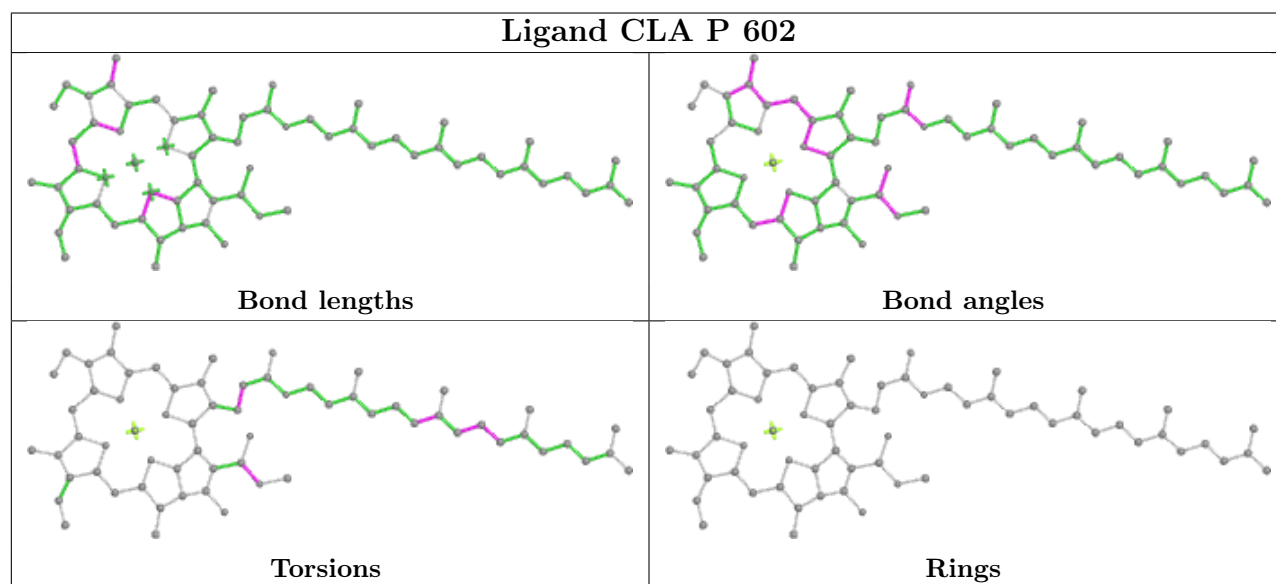
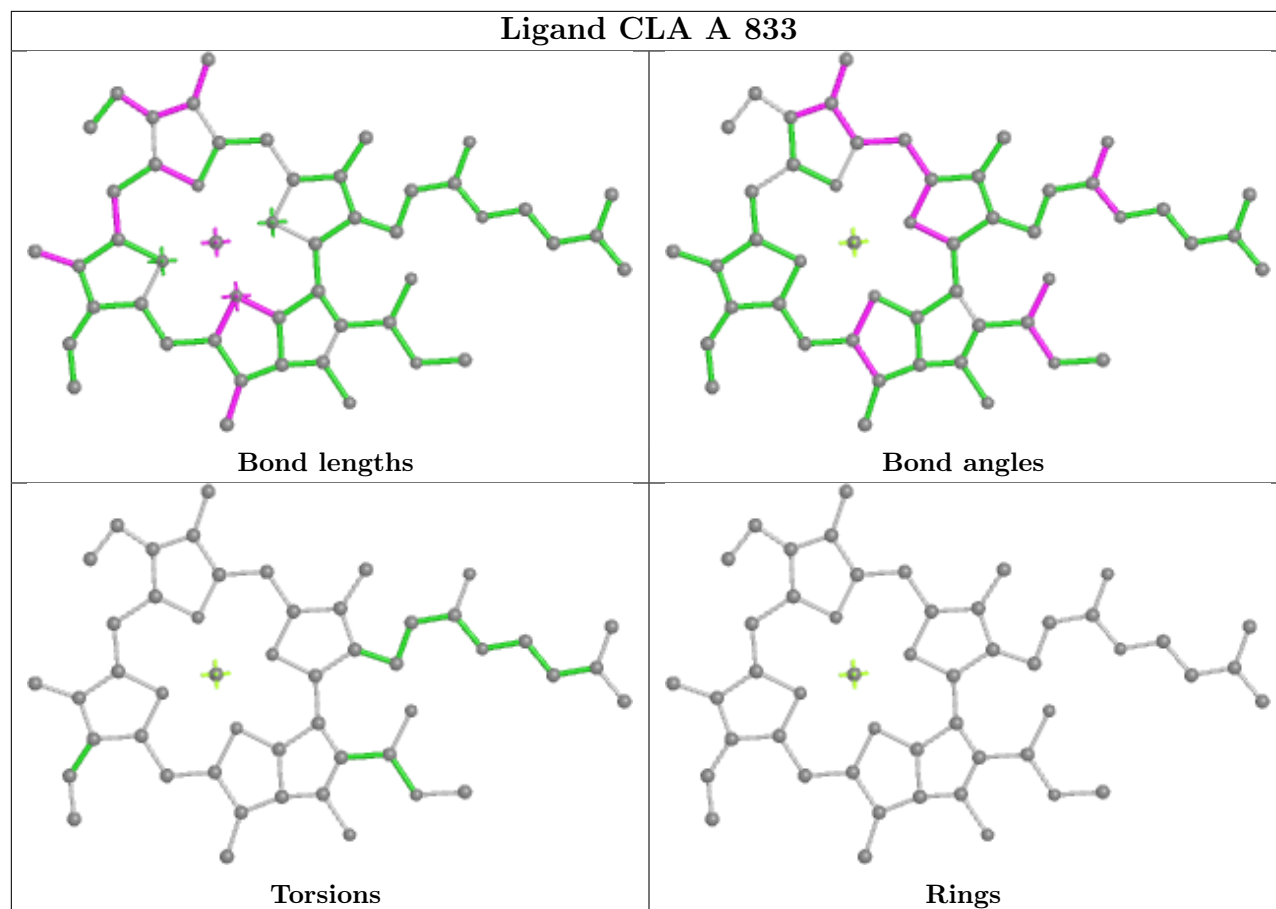


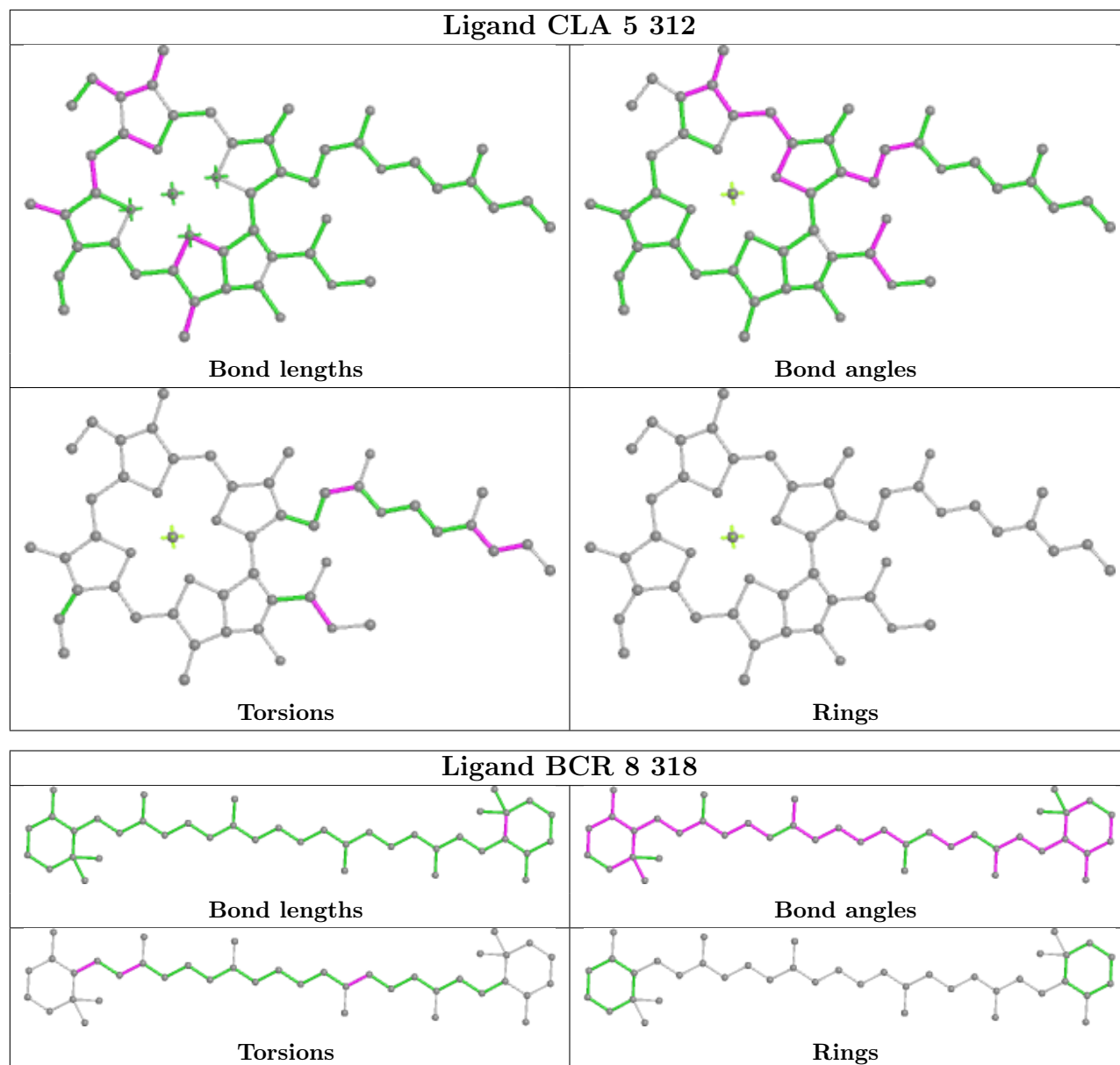


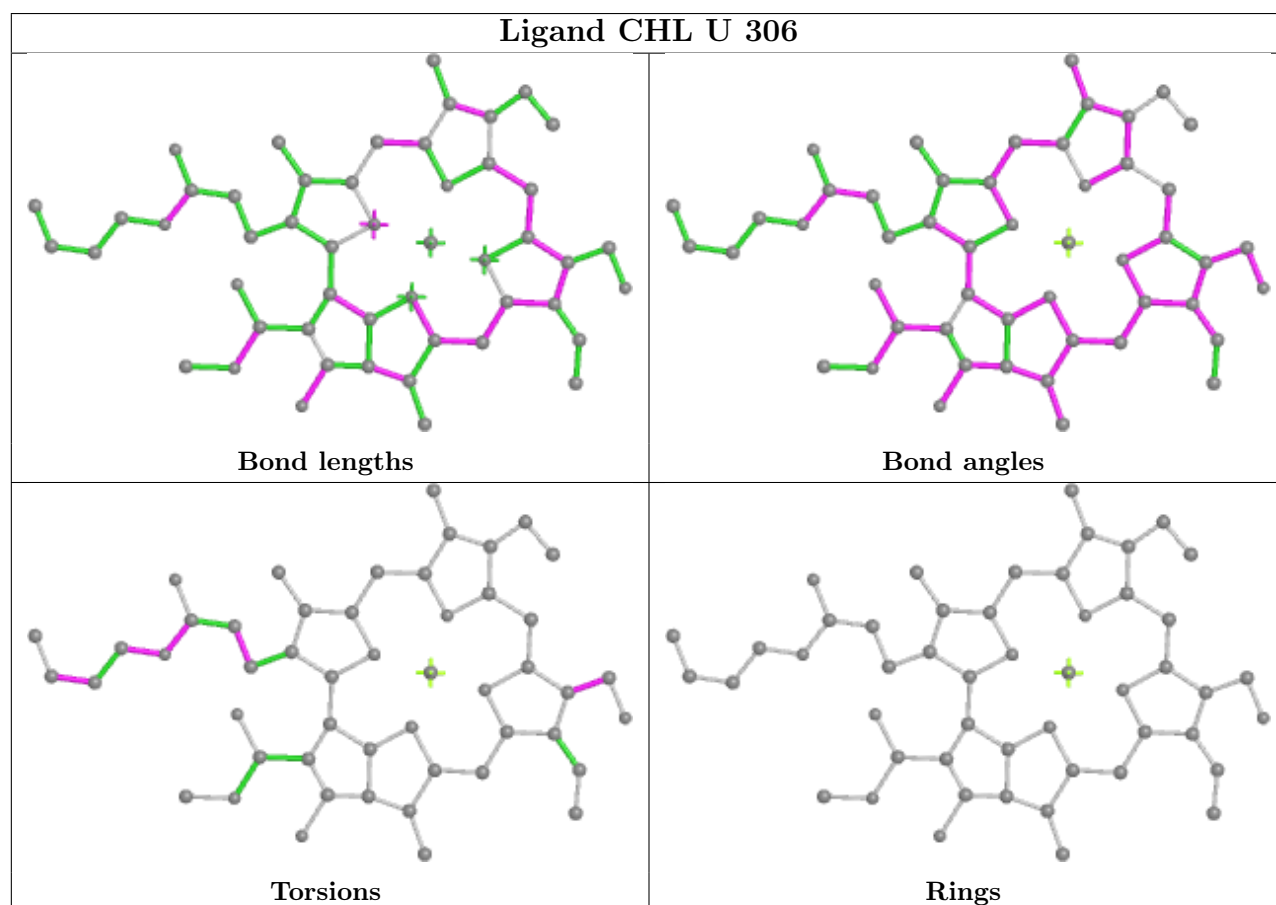
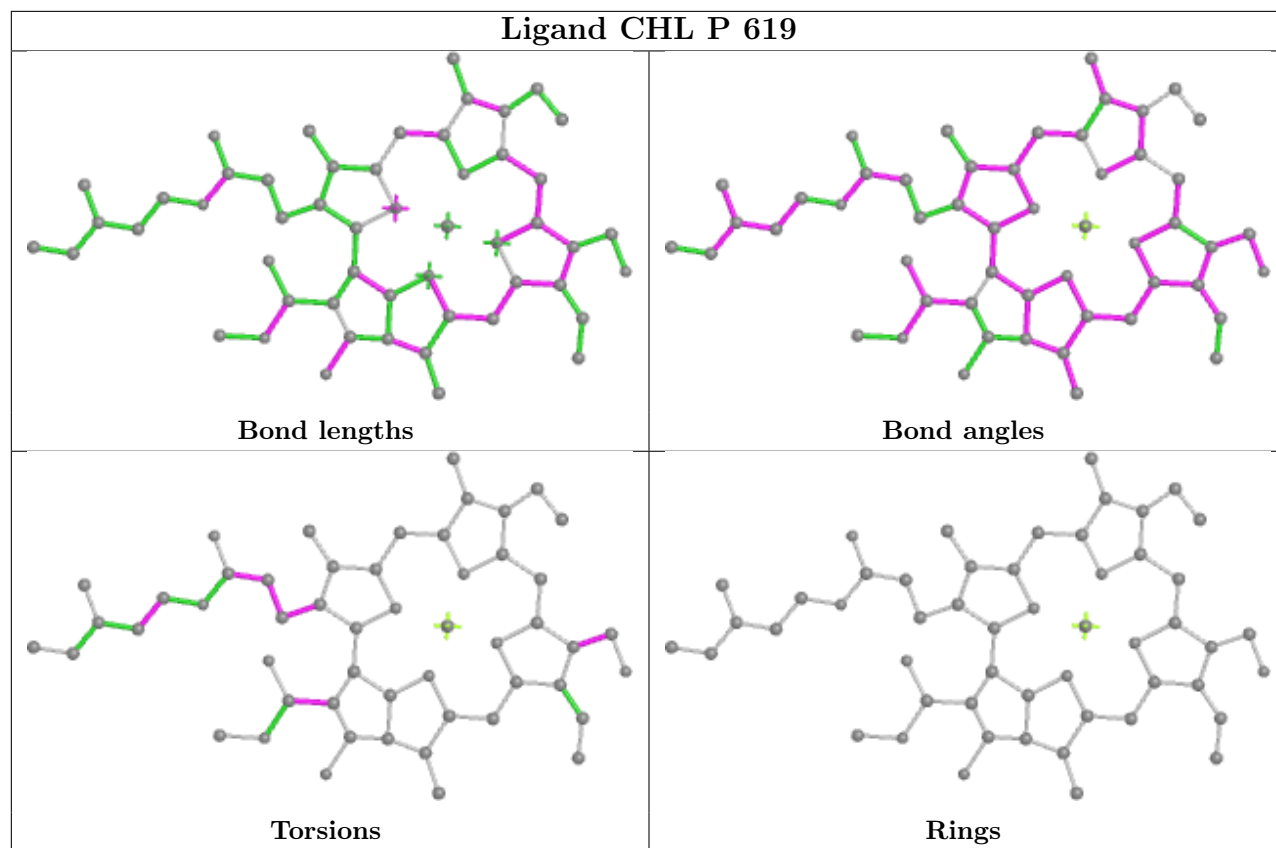


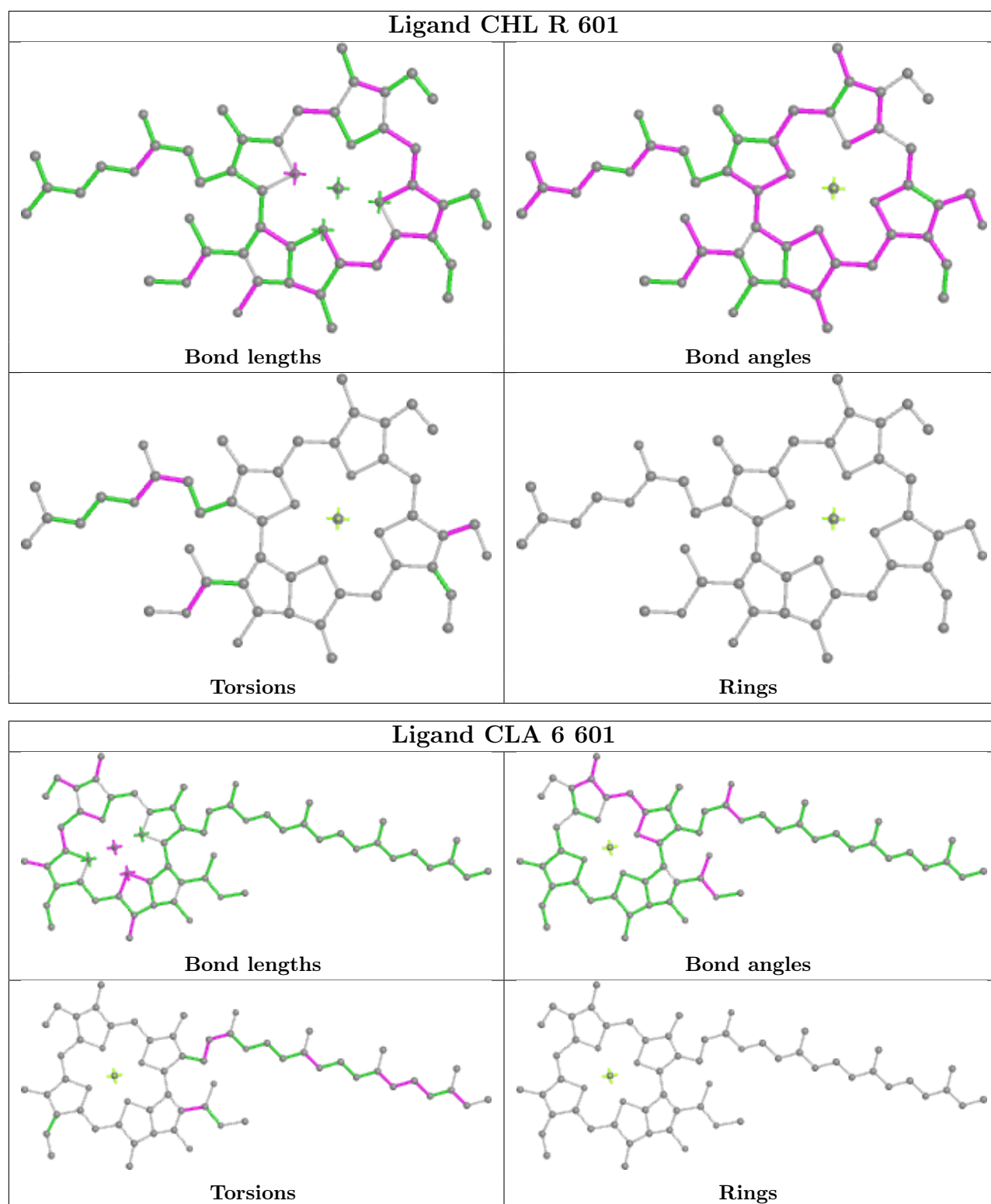


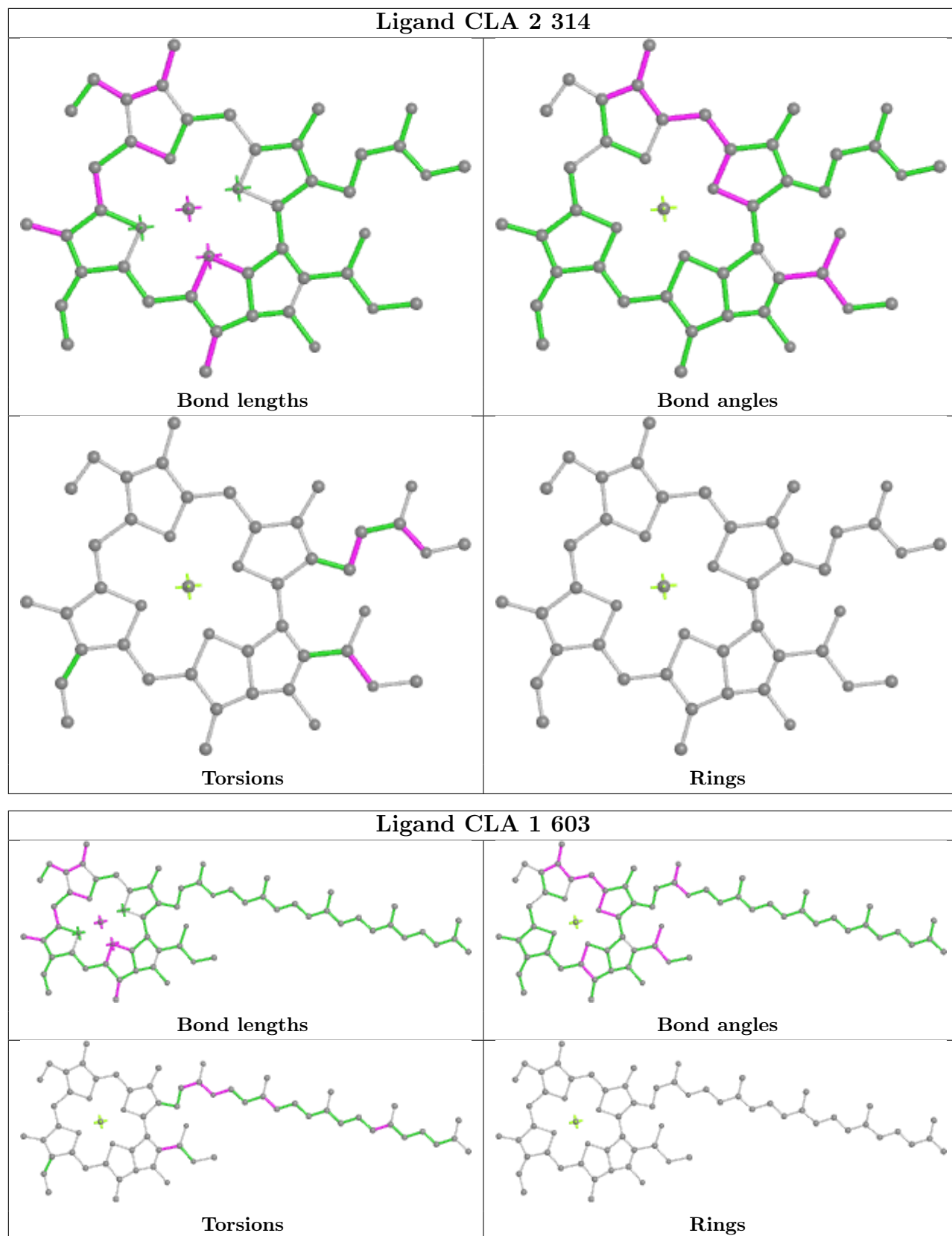


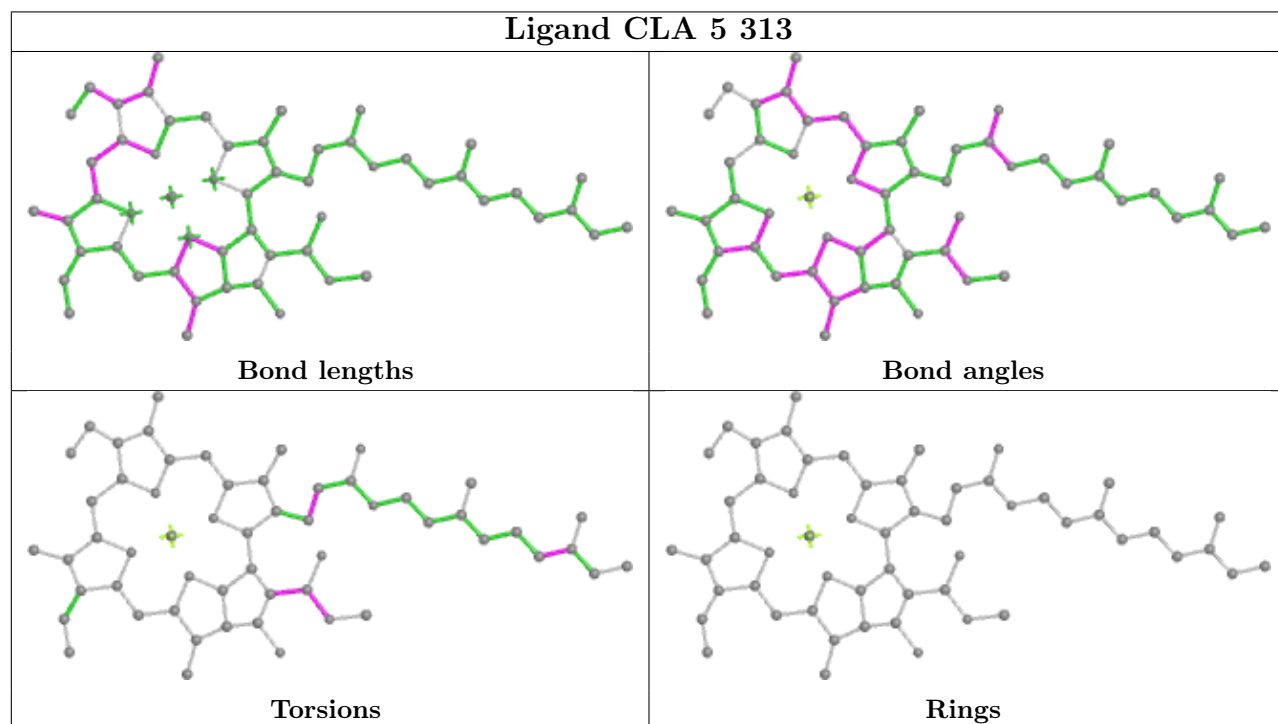
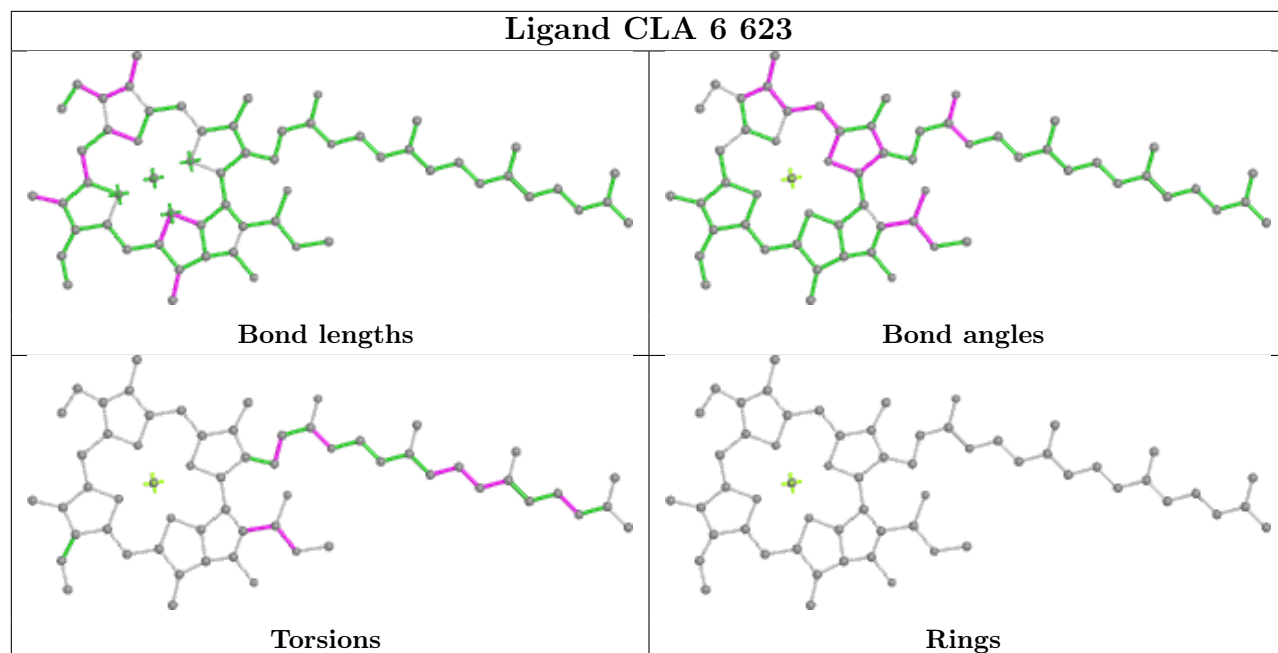


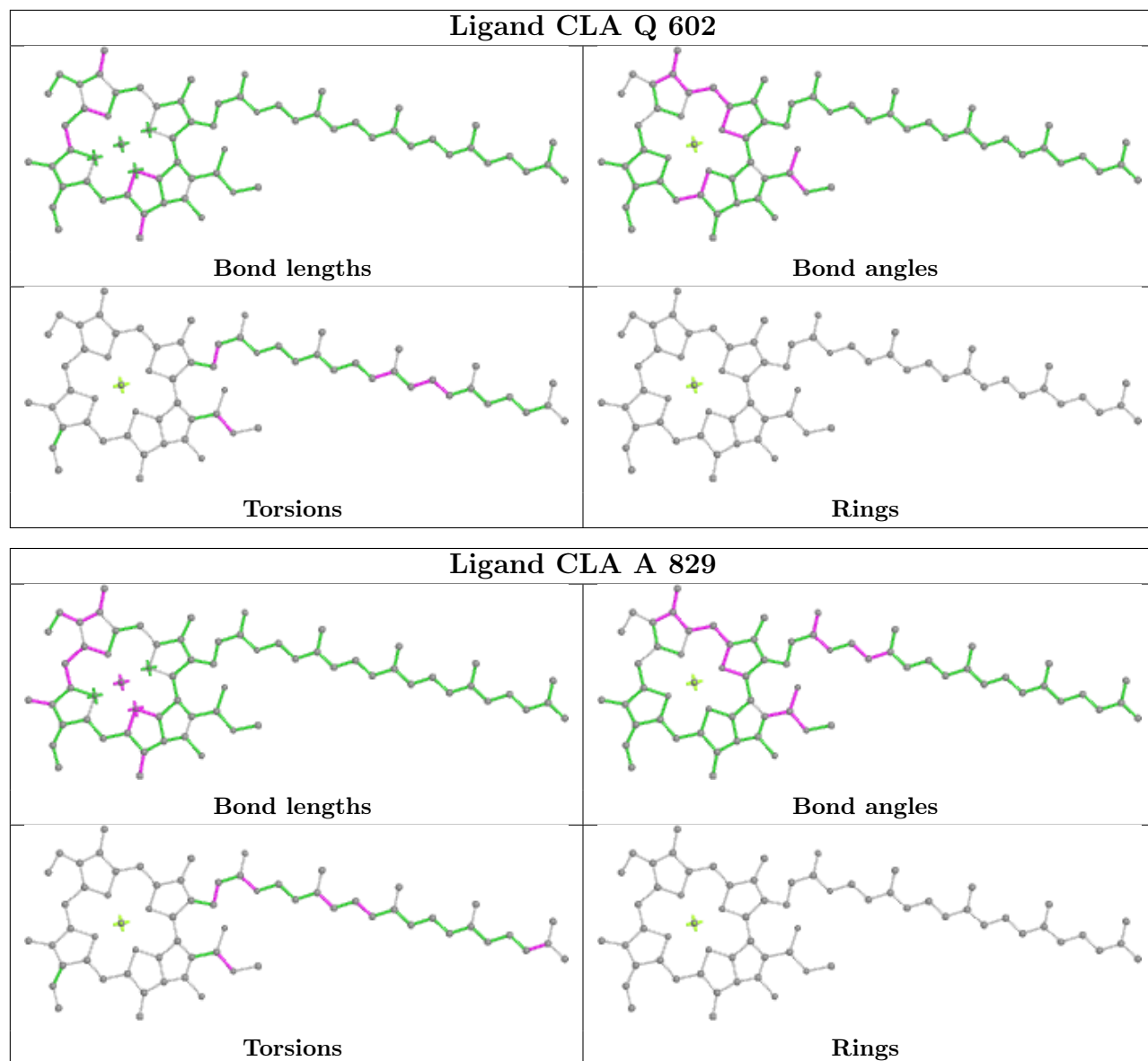


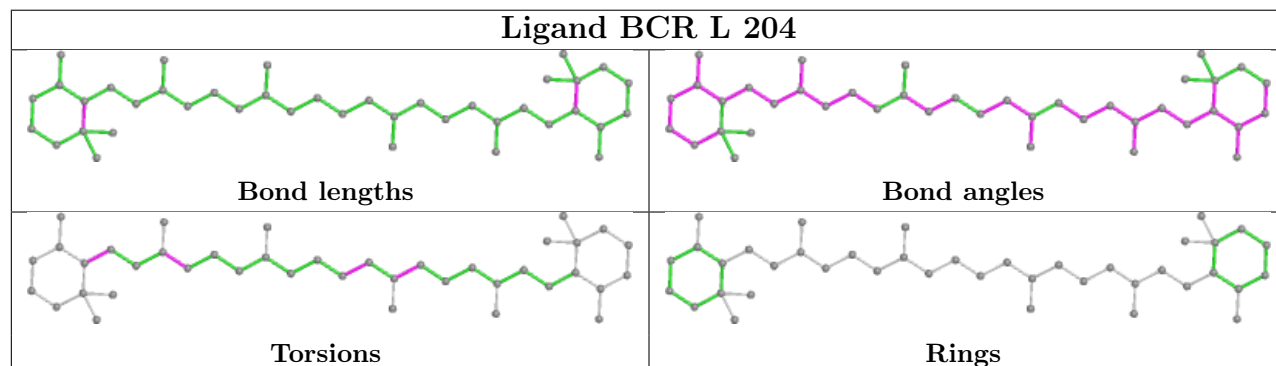
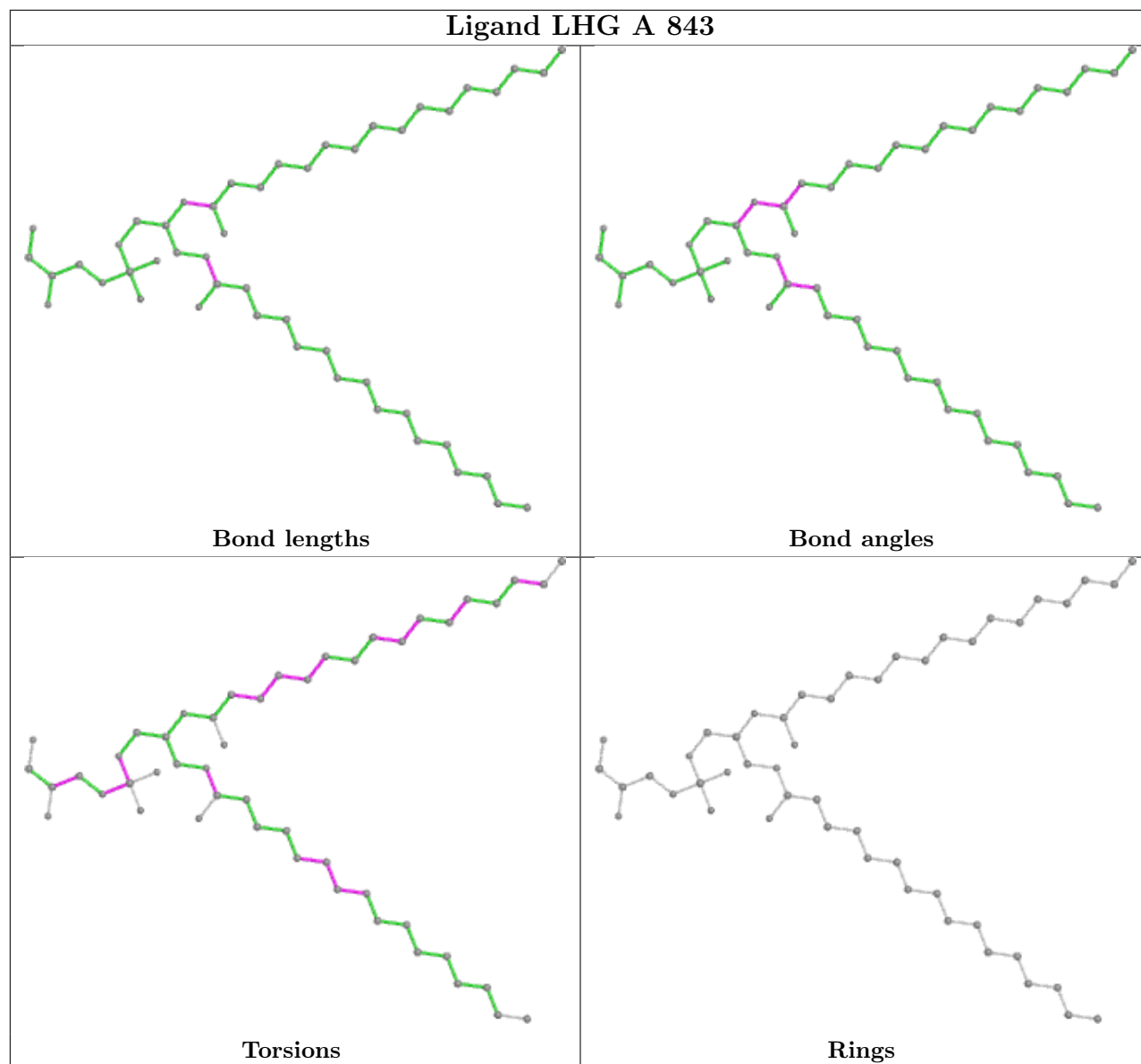


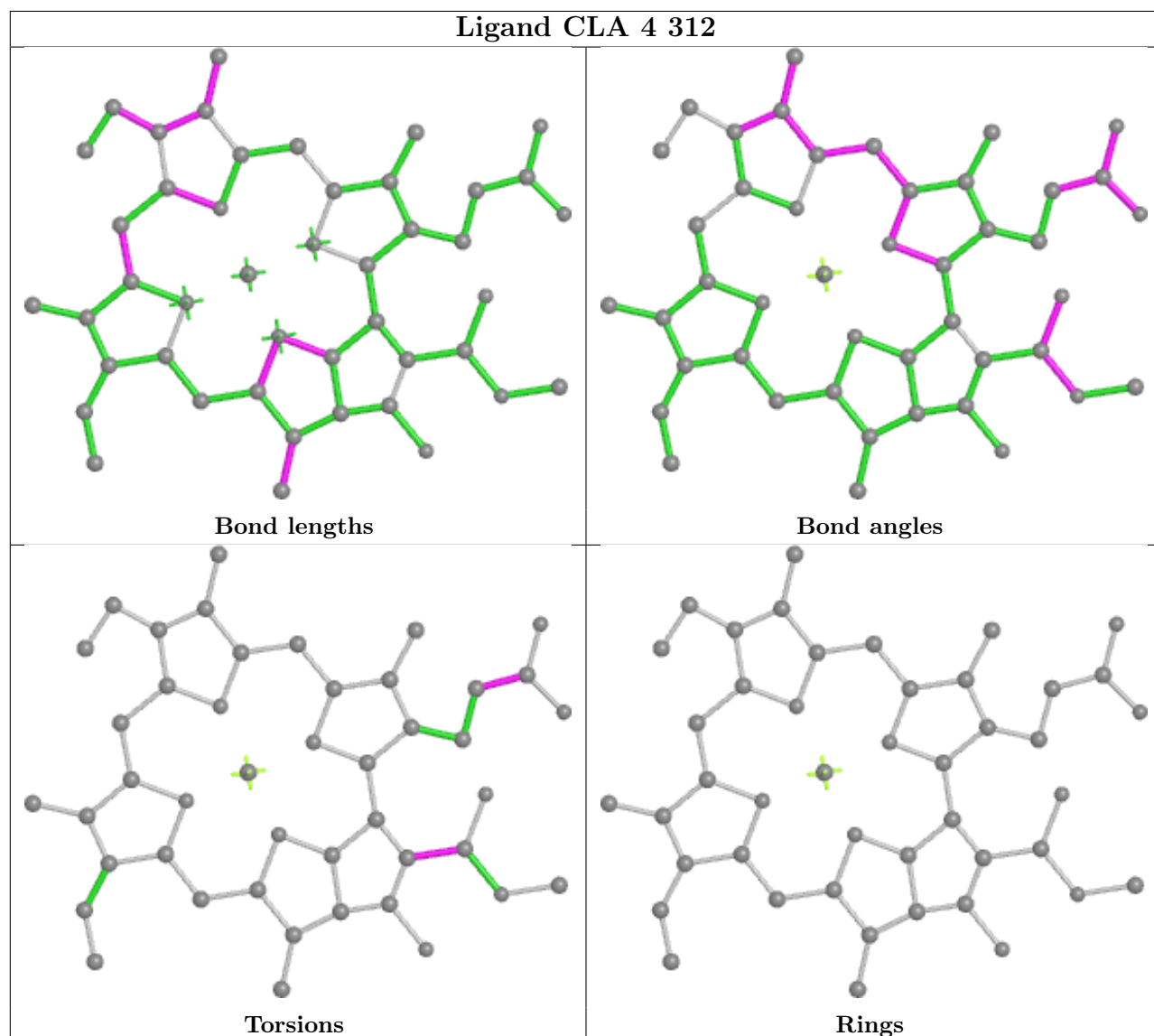
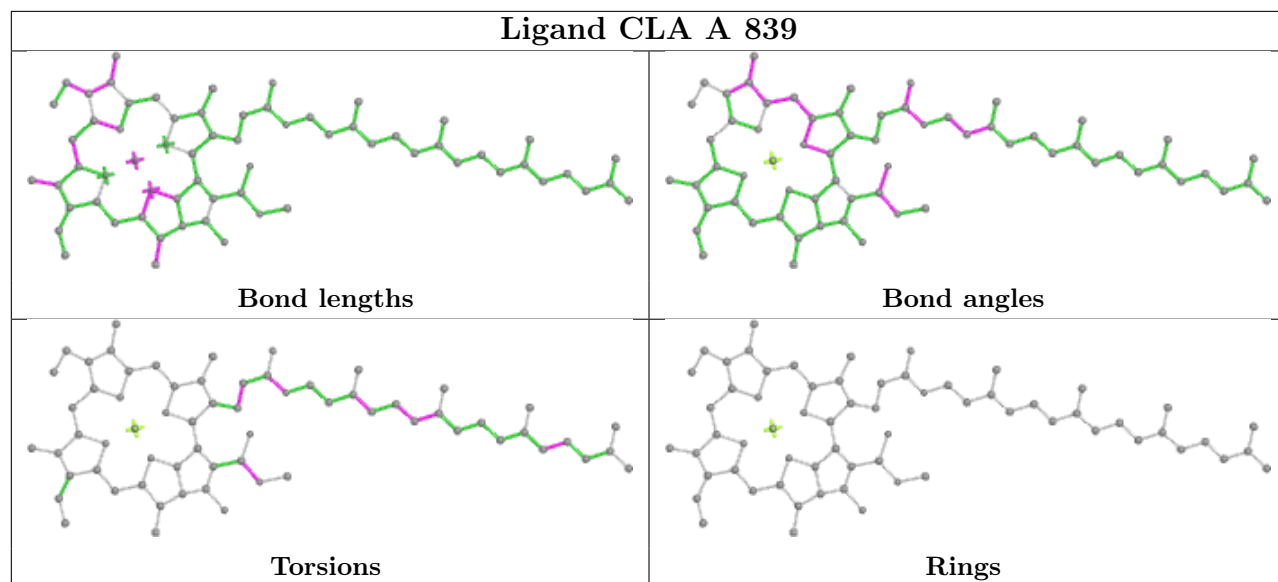


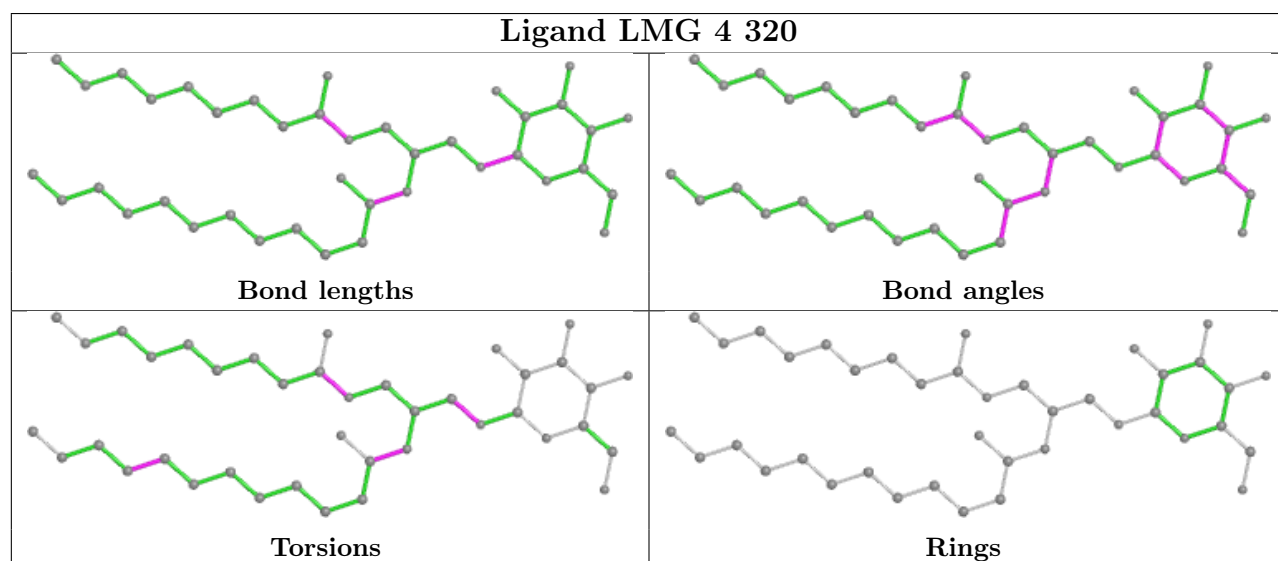
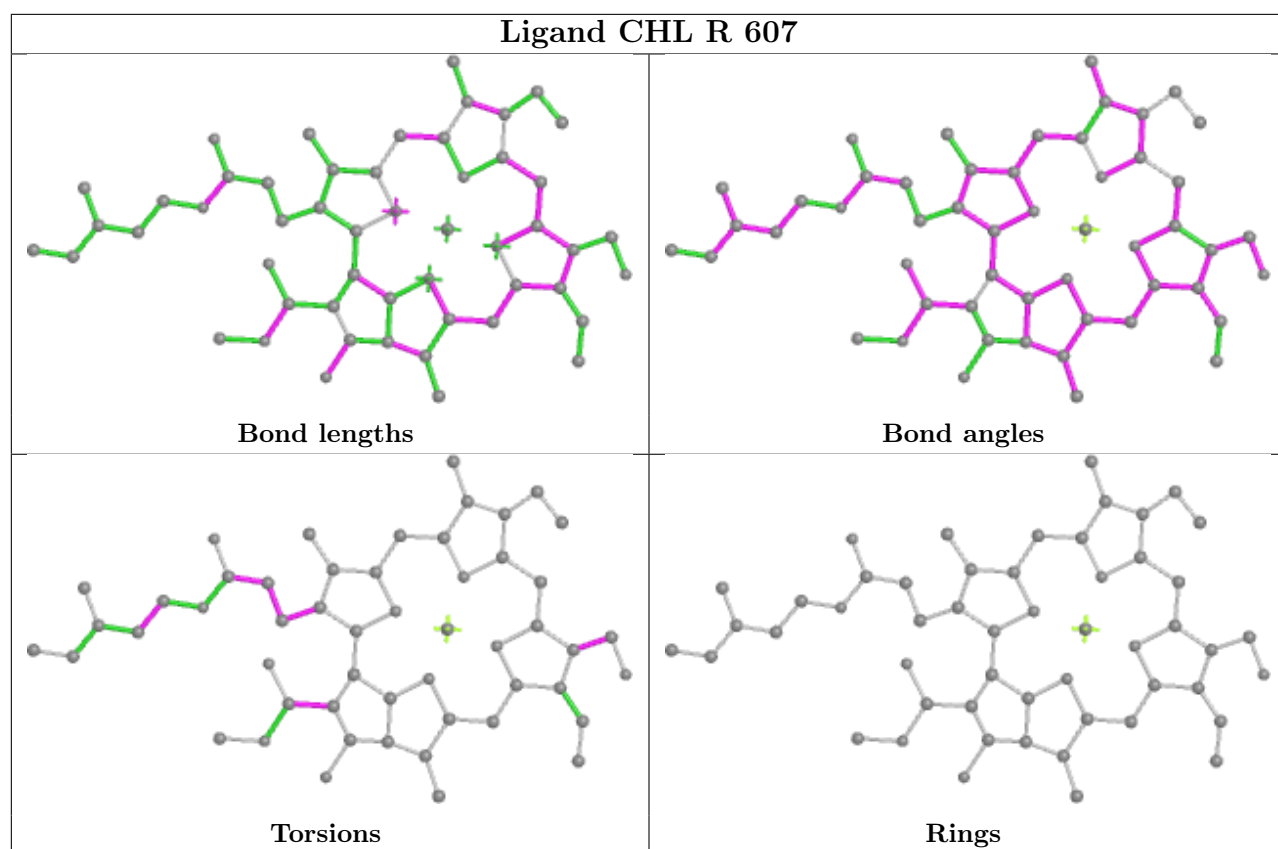


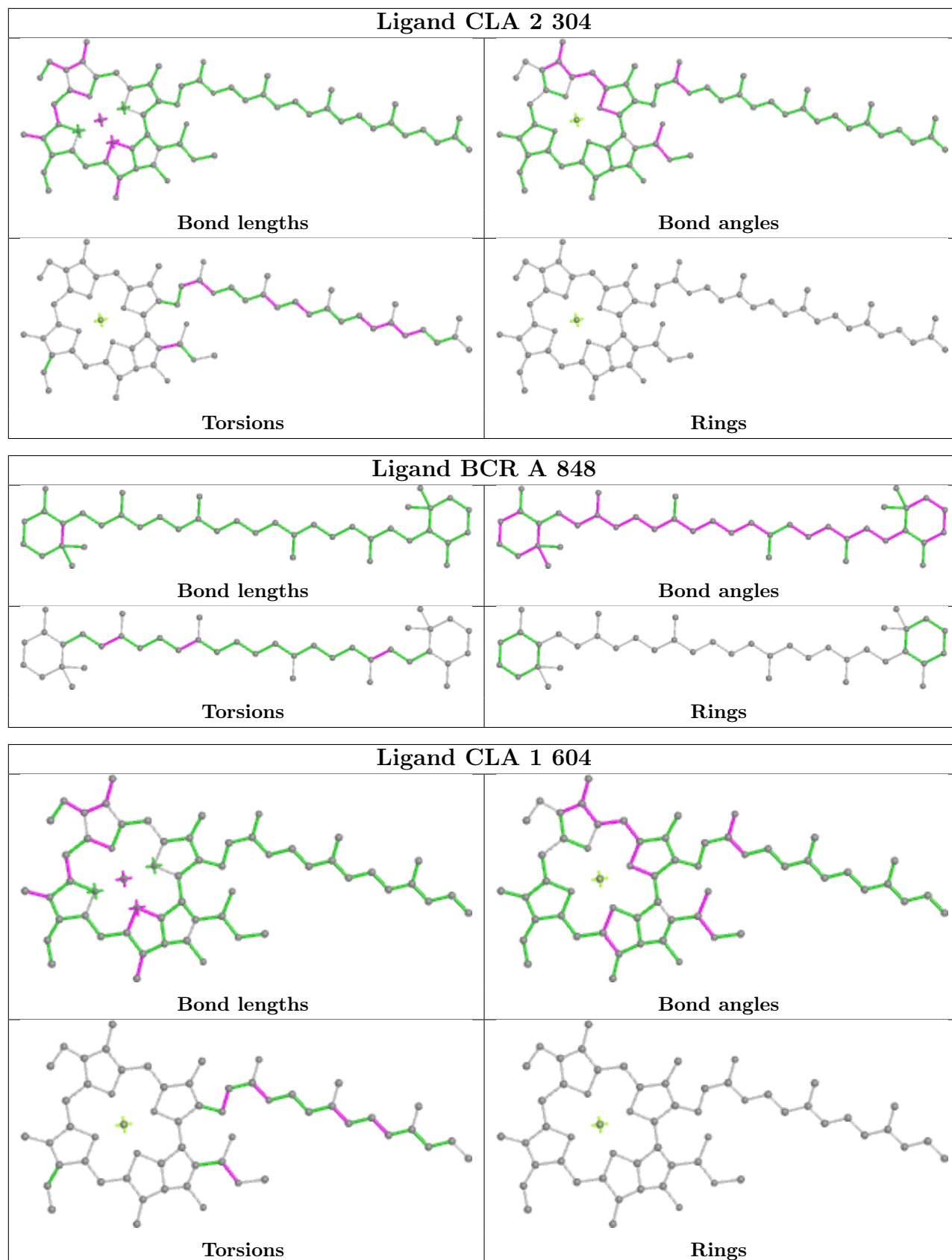


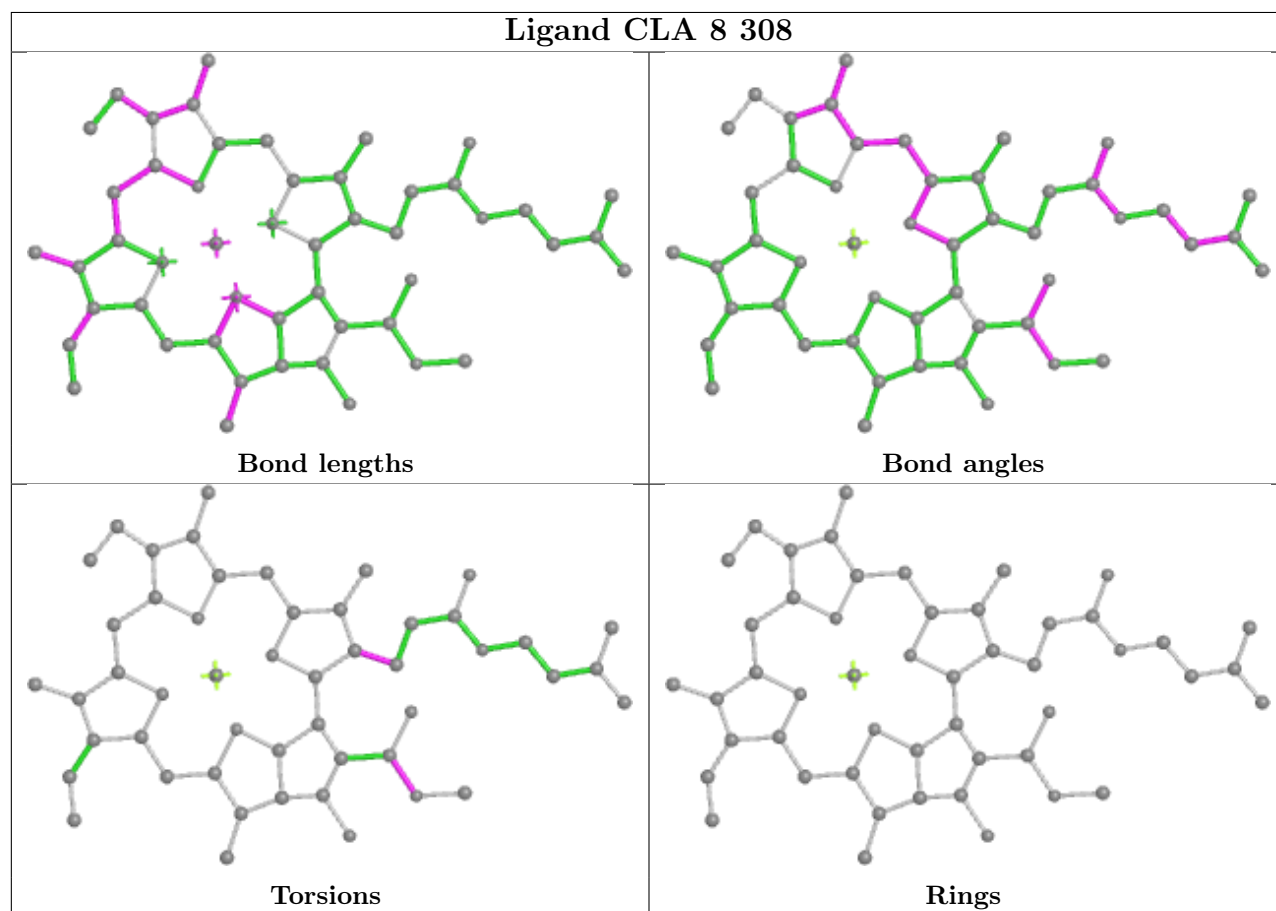
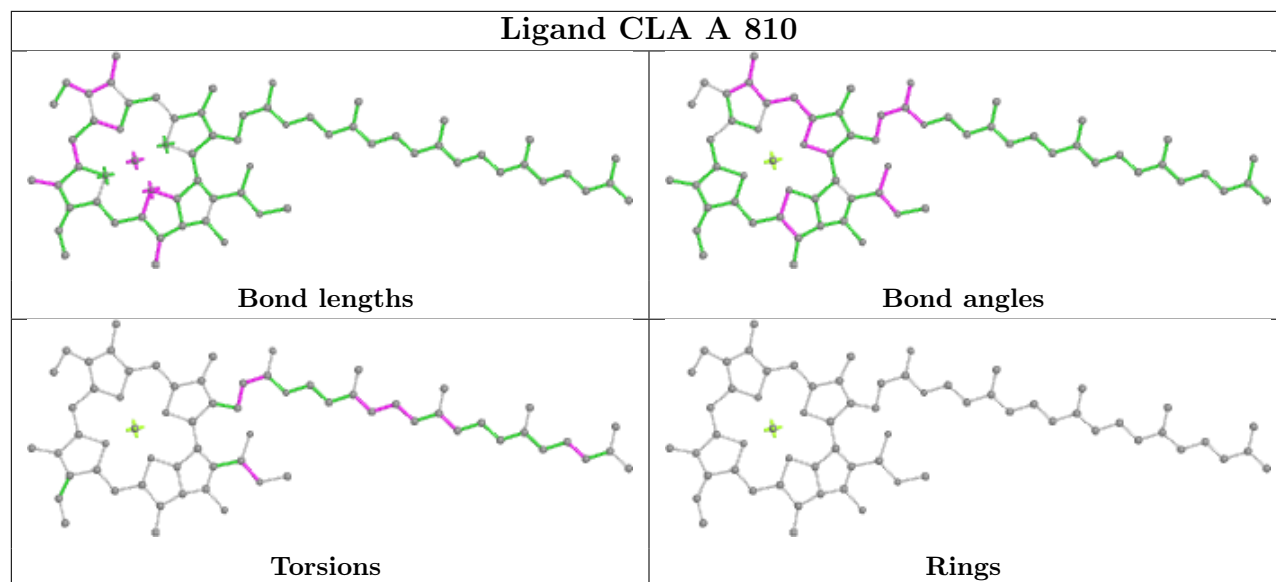


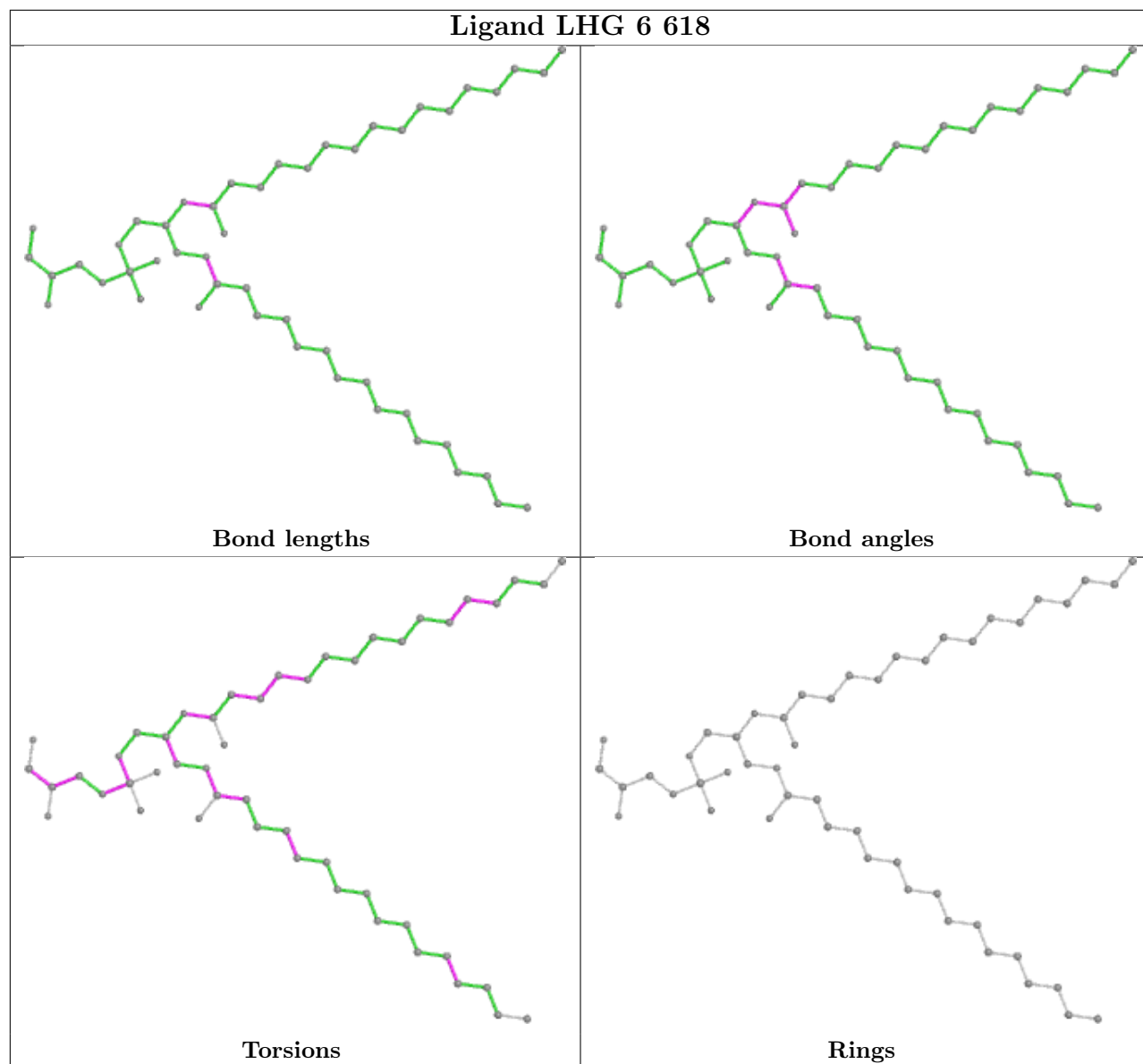


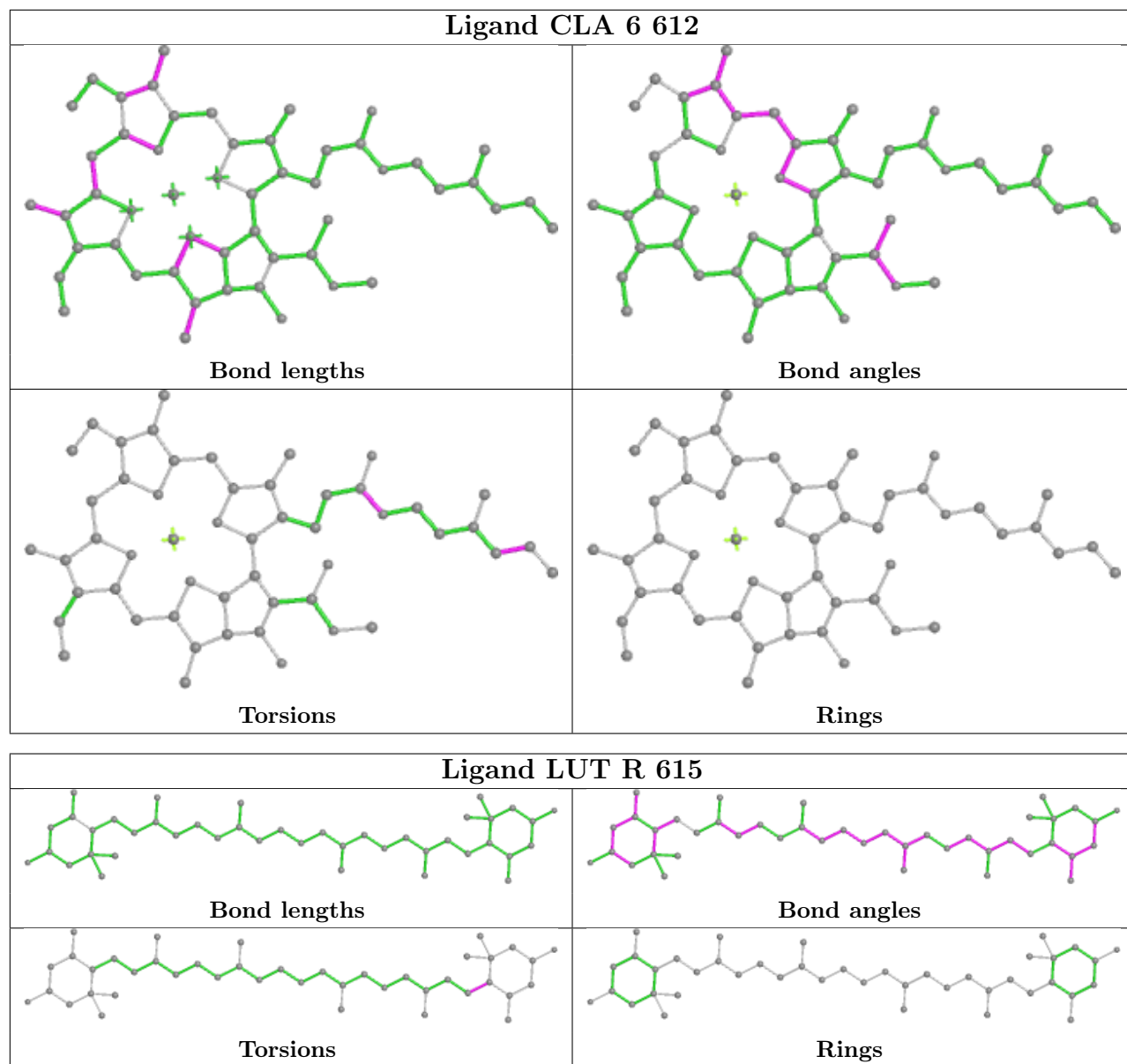


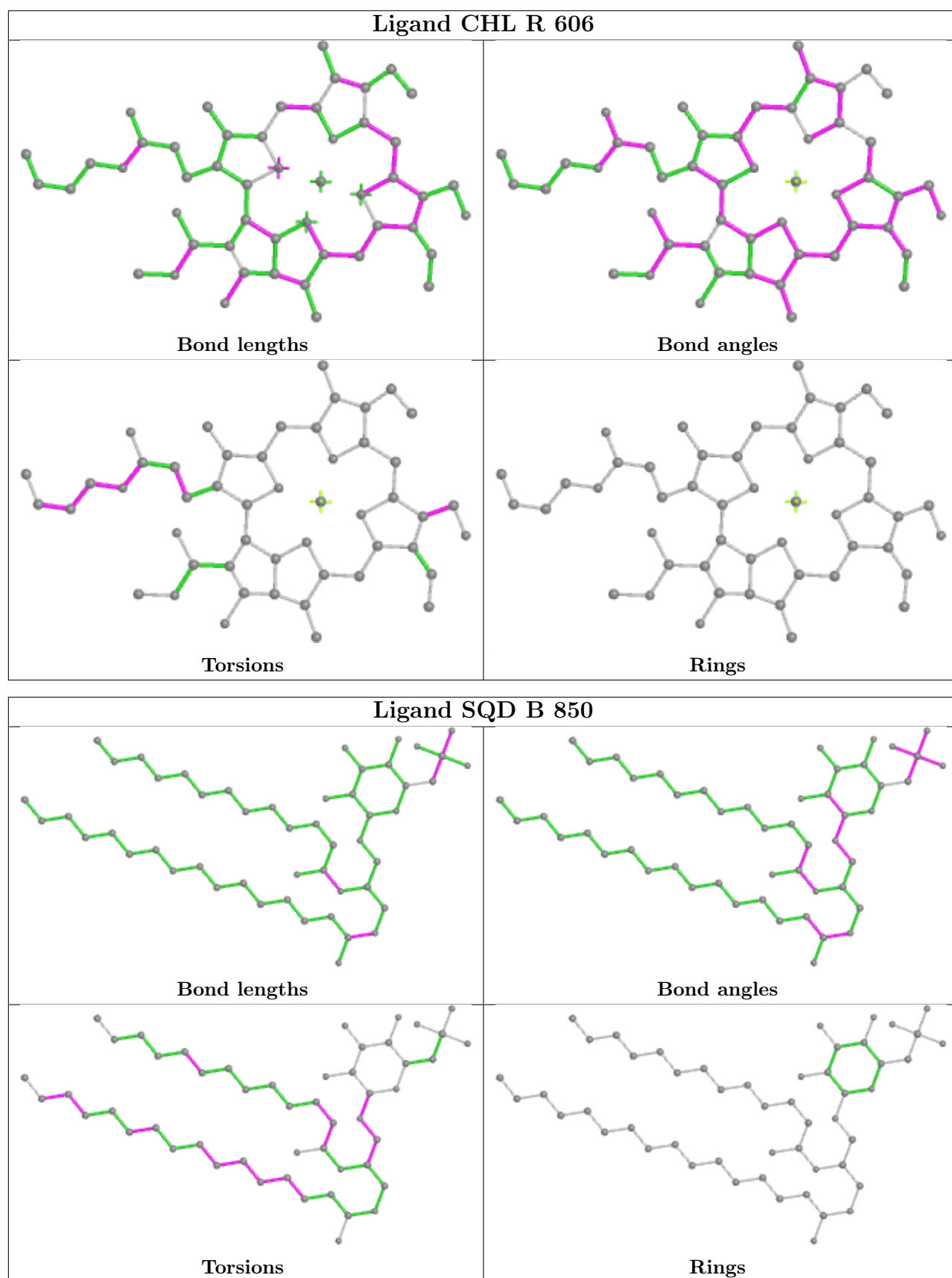


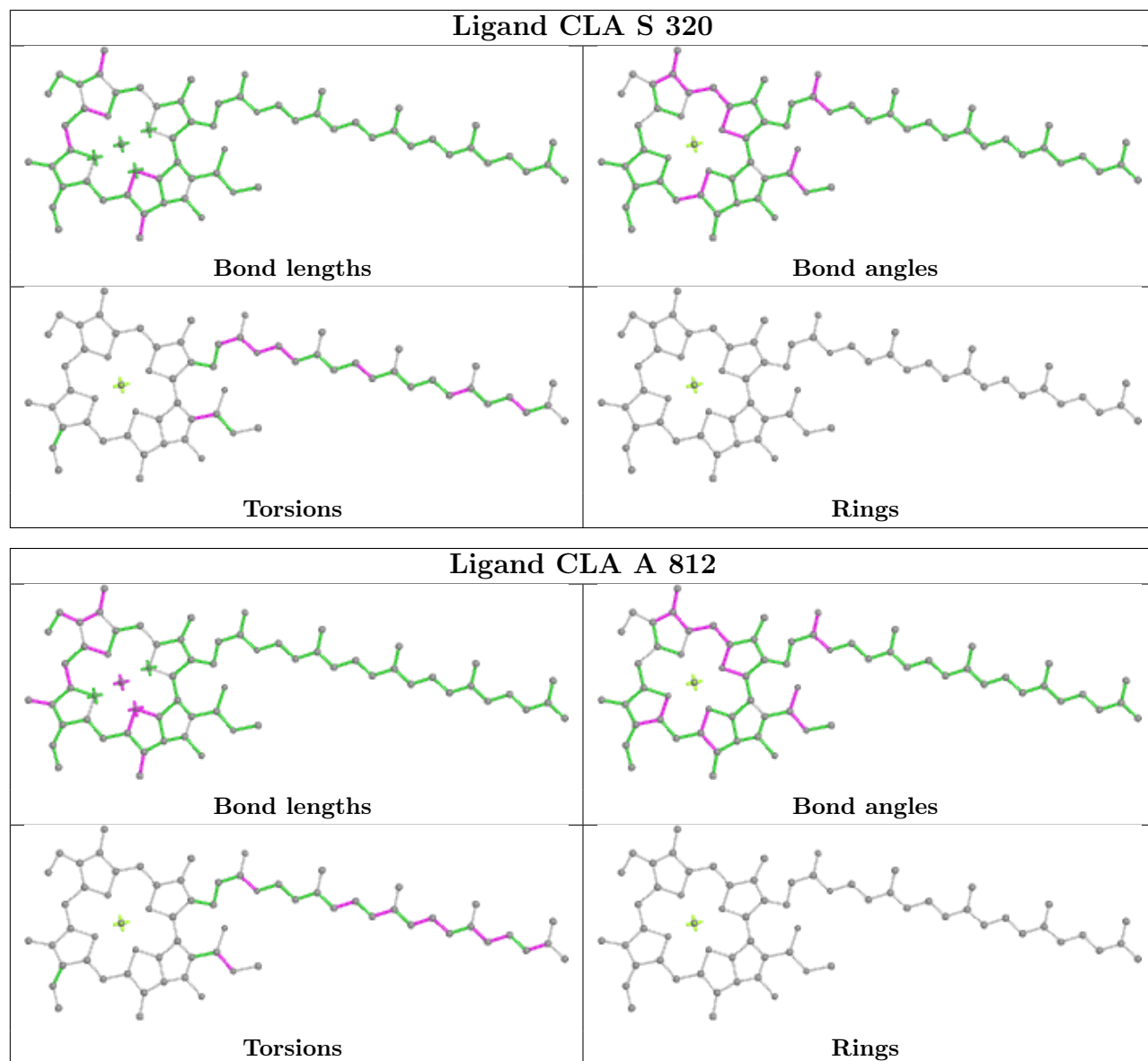


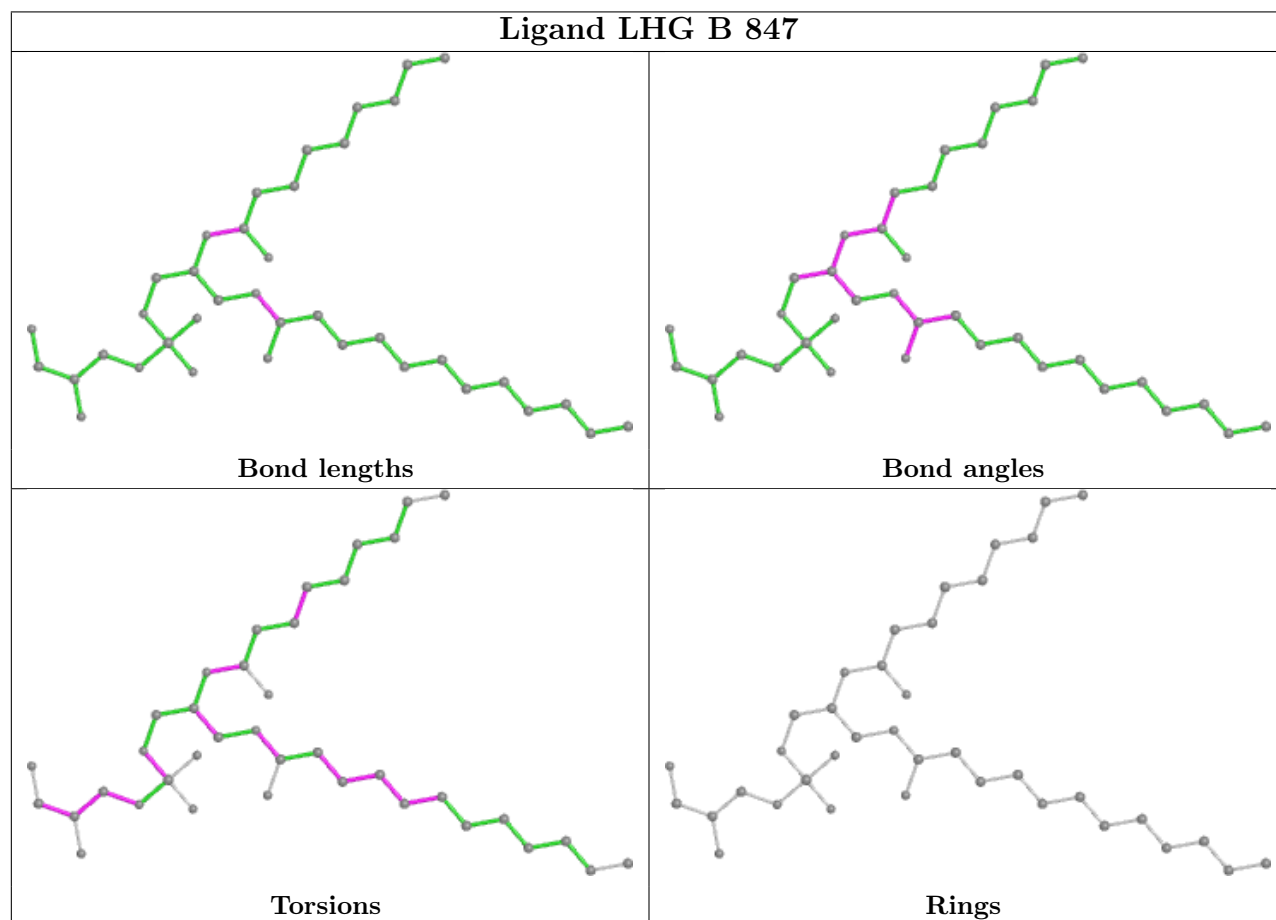
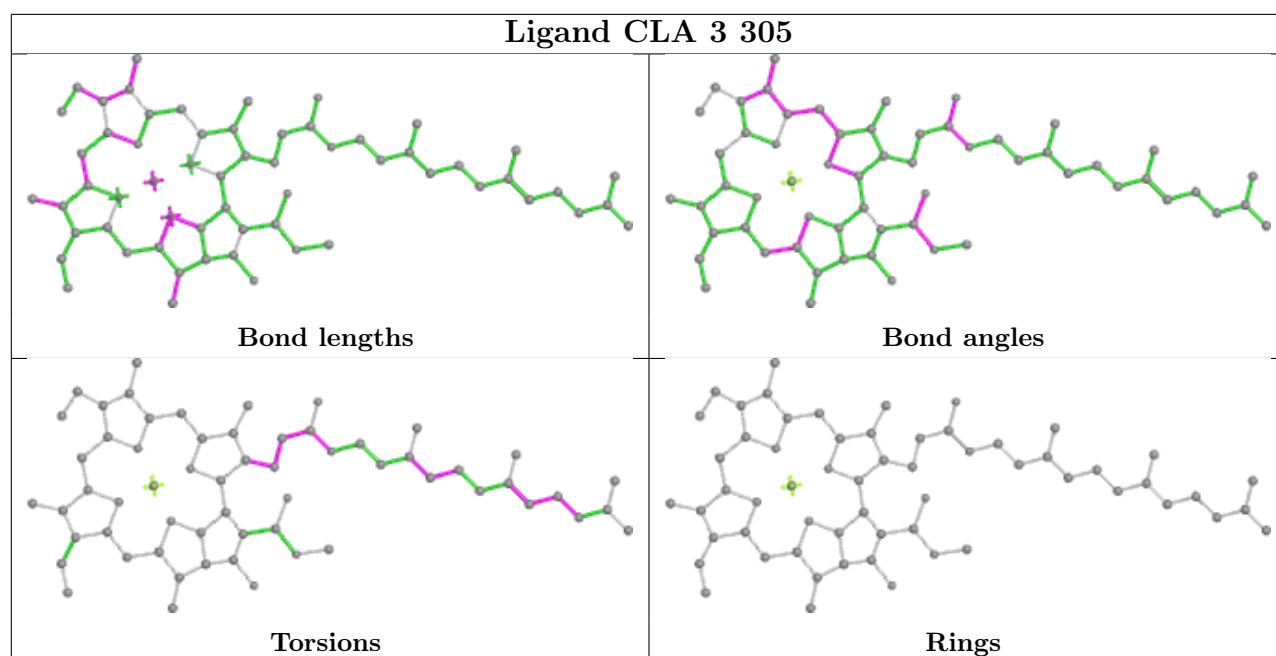


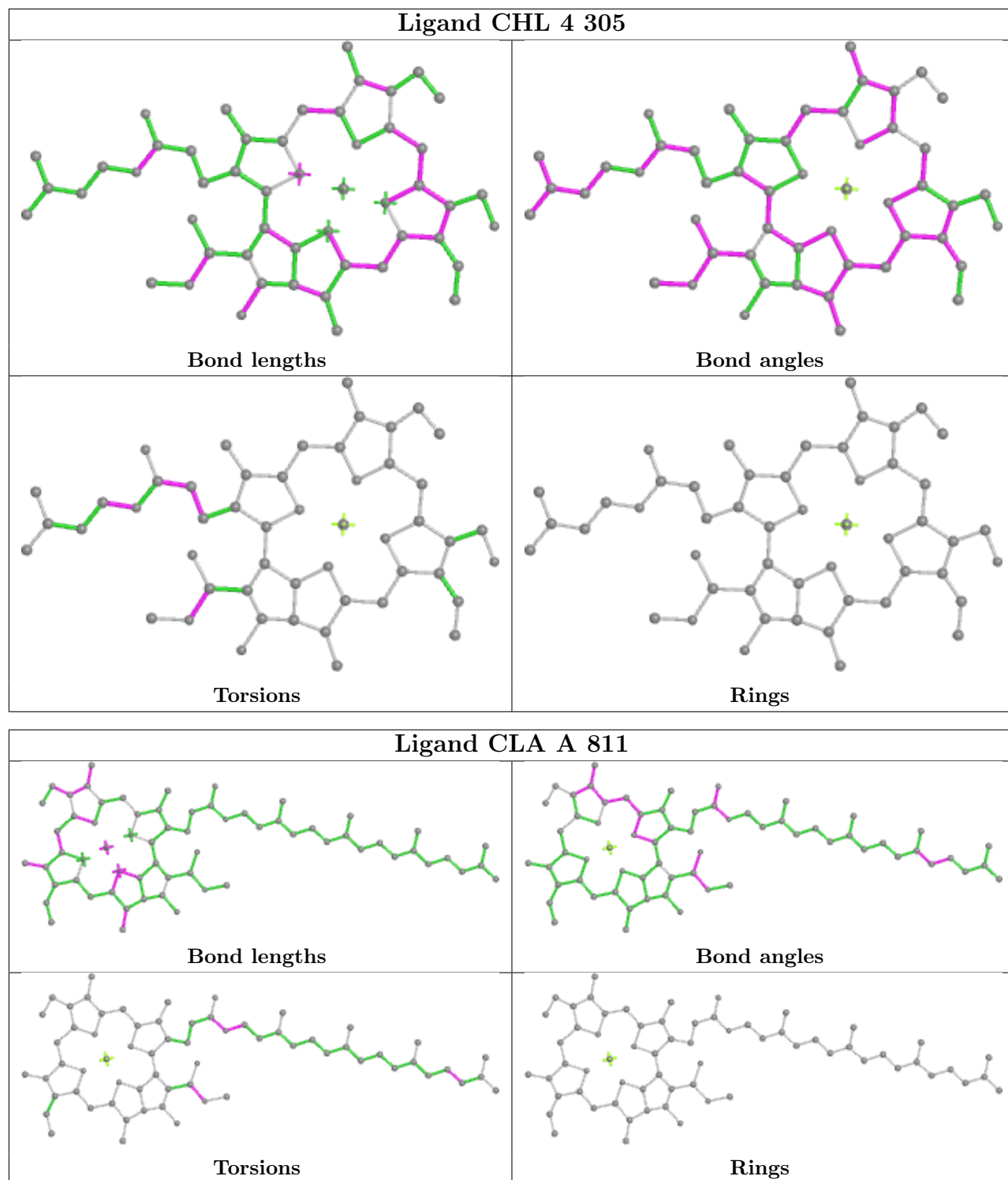


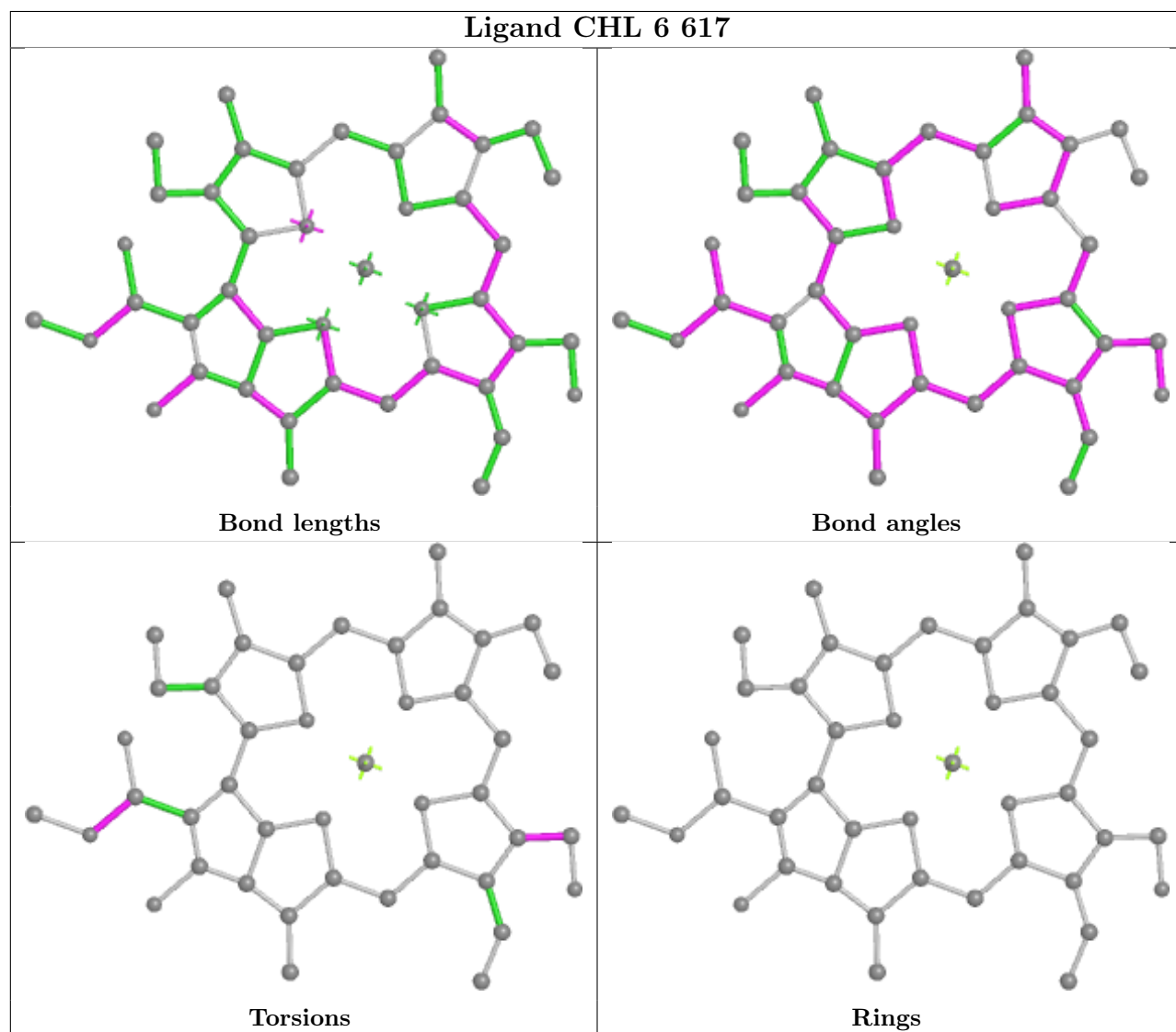
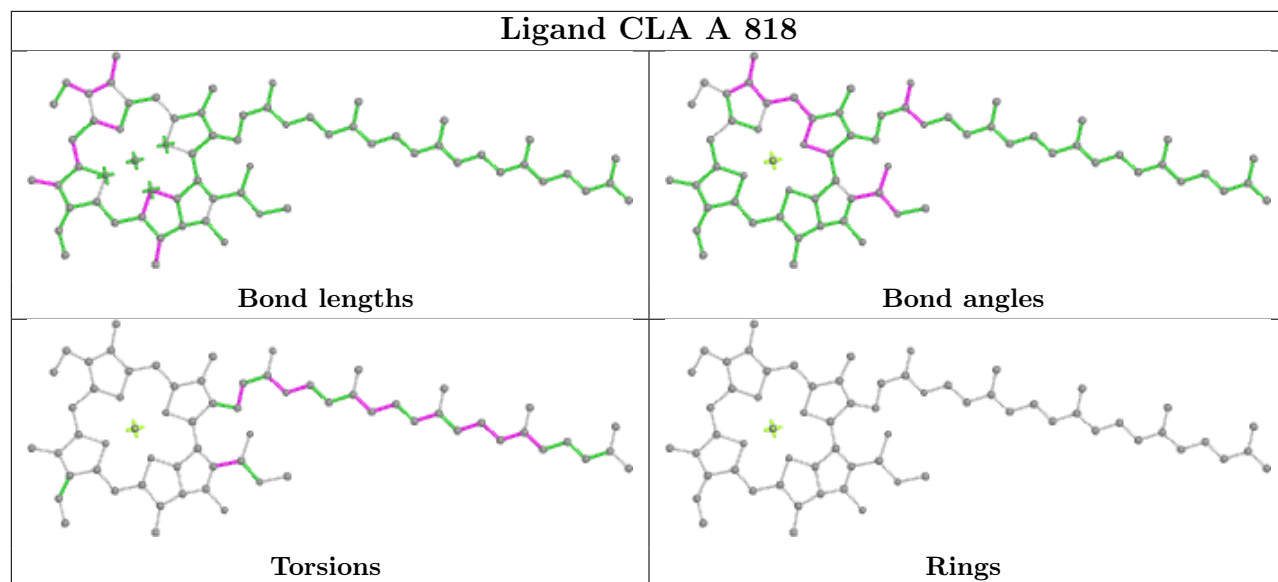


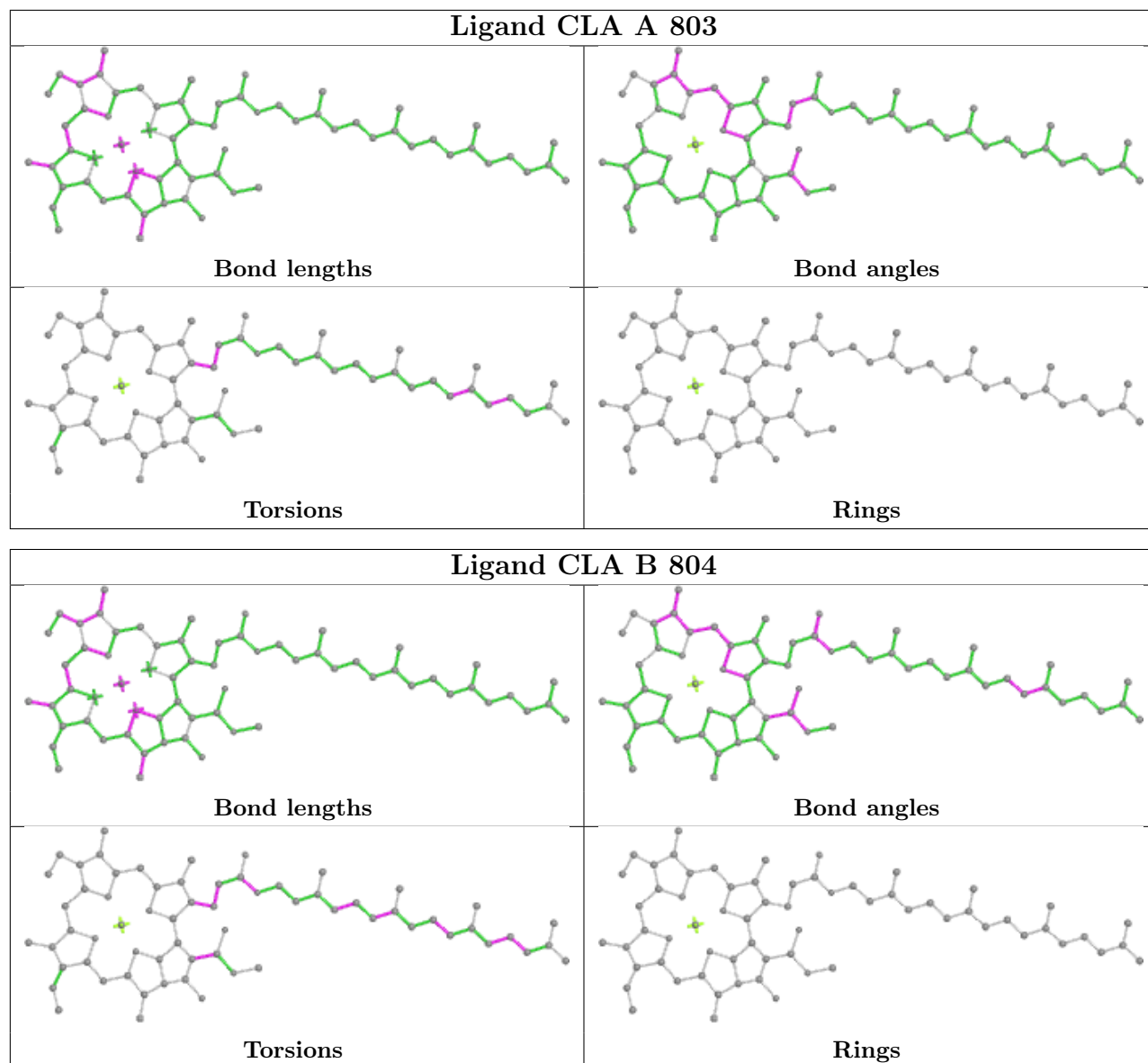


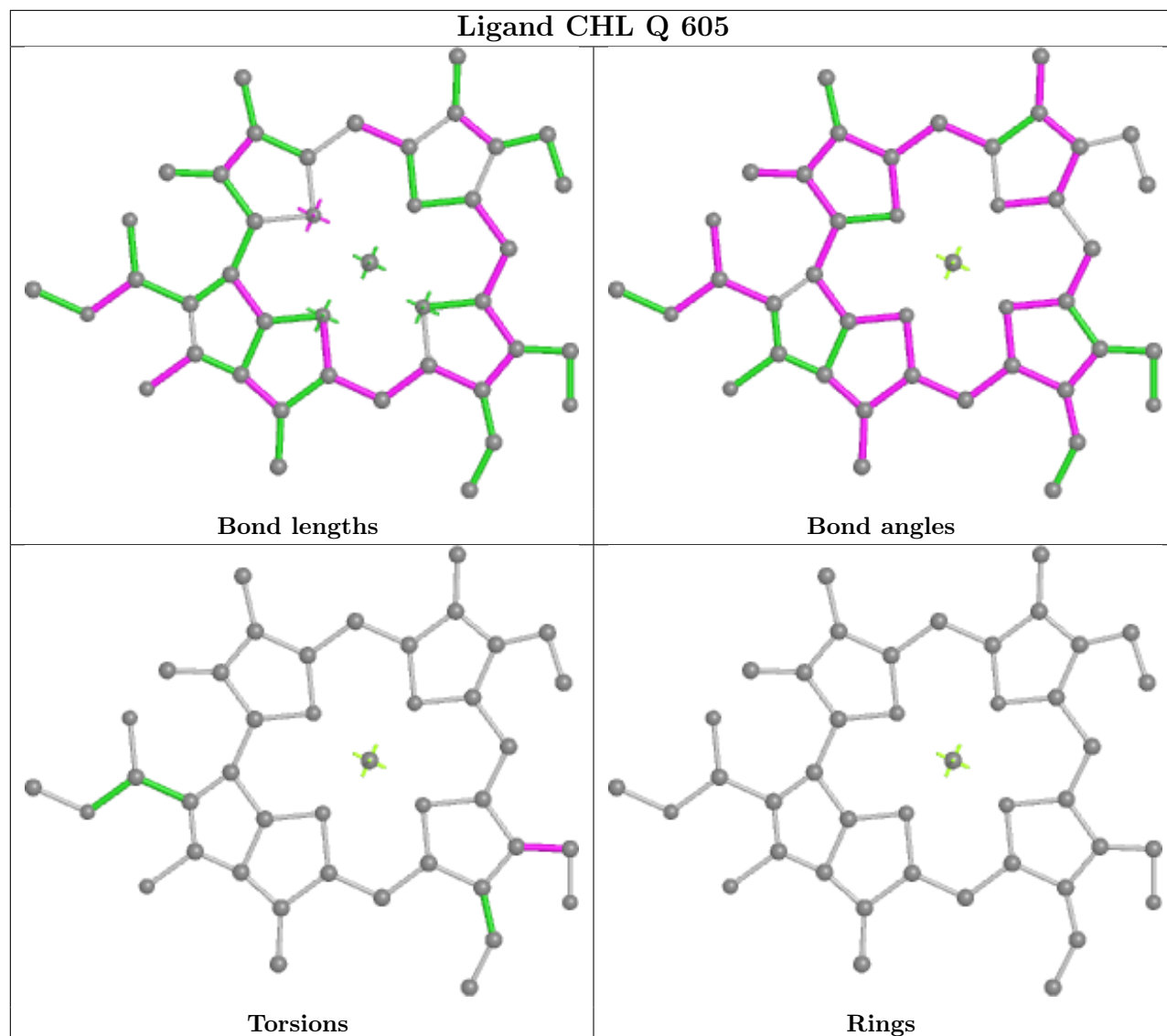


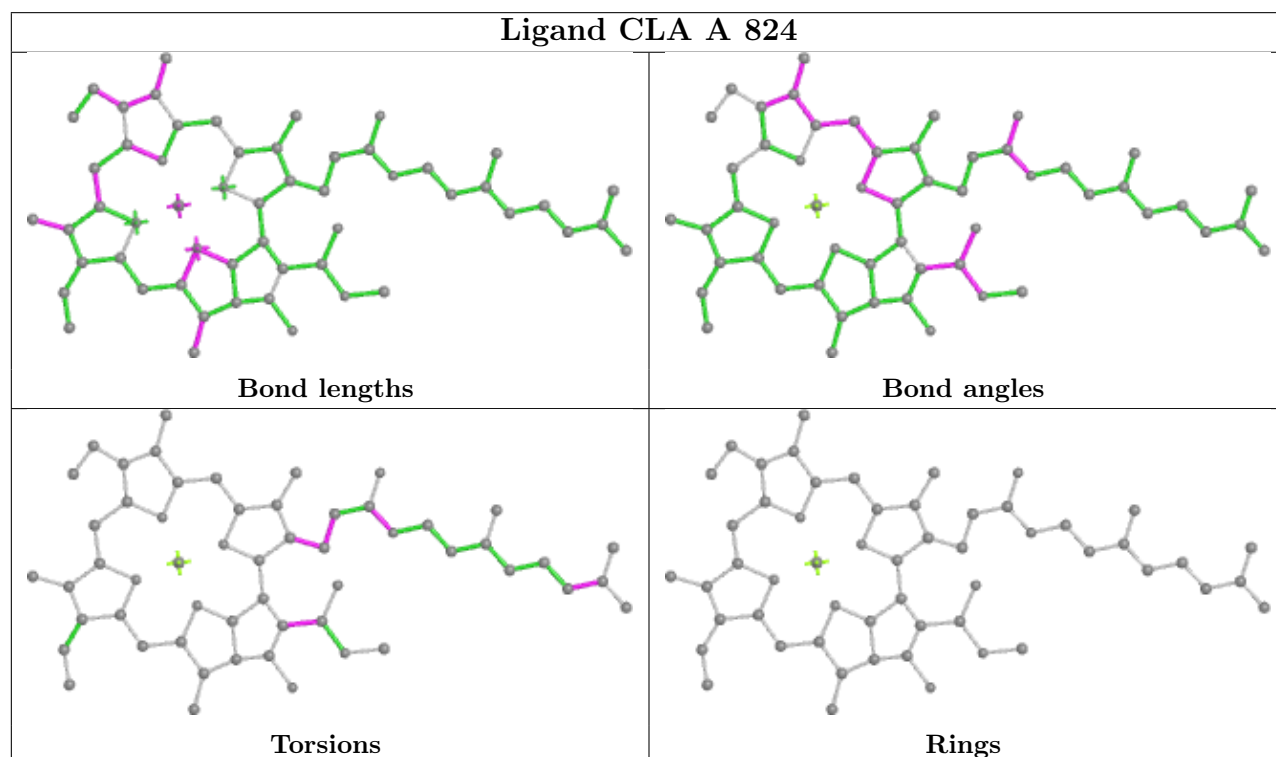
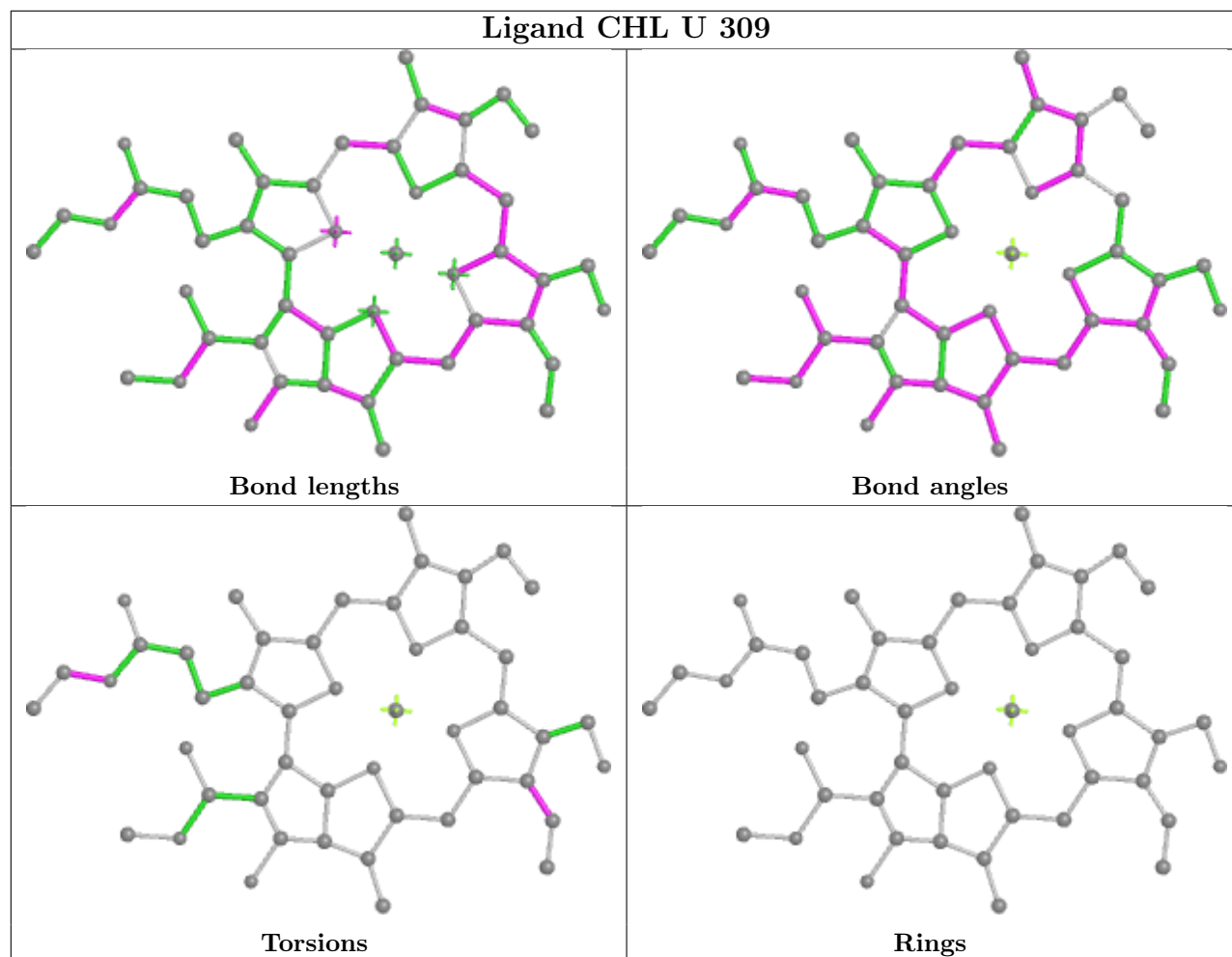


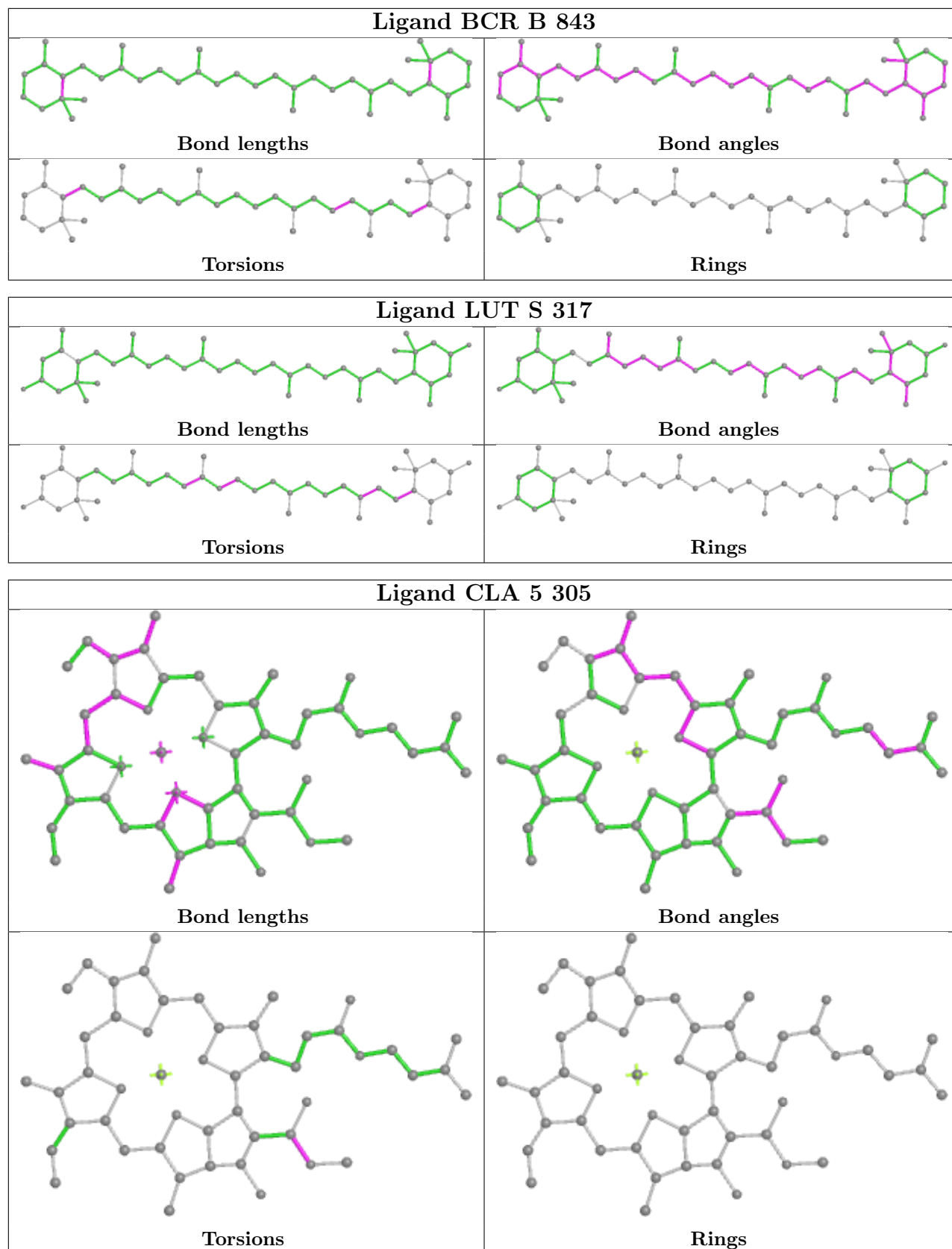












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

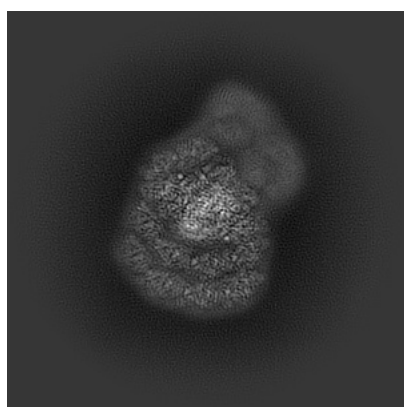
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-30536. These allow visual inspection of the internal detail of the map and identification of artifacts.

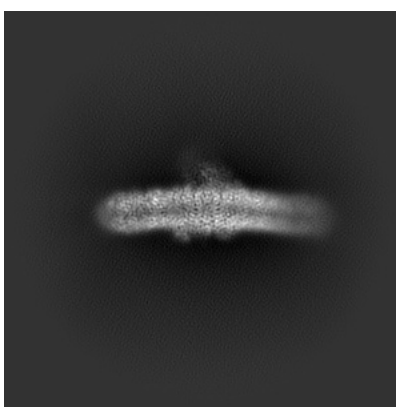
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

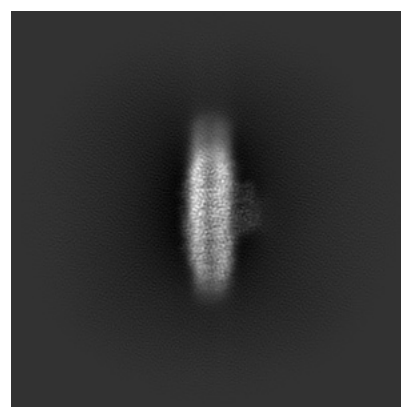
6.1.1 Primary map



X



Y

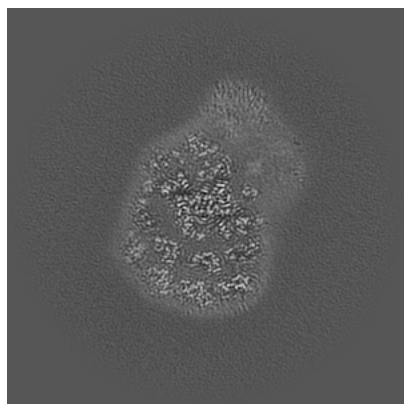


Z

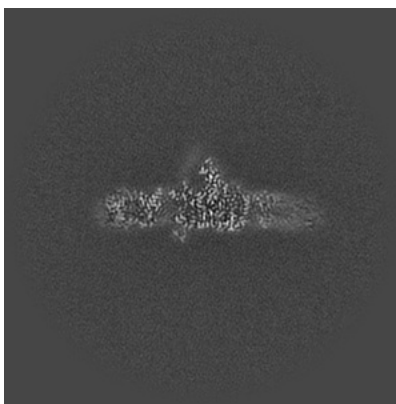
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

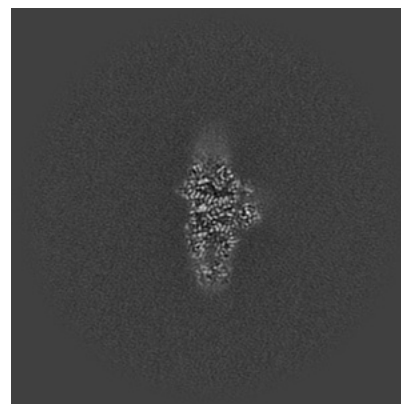
6.2.1 Primary map



X Index: 180



Y Index: 180

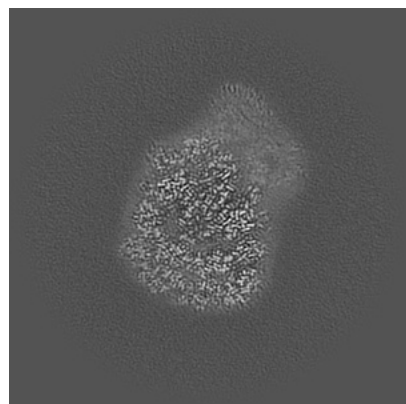


Z Index: 180

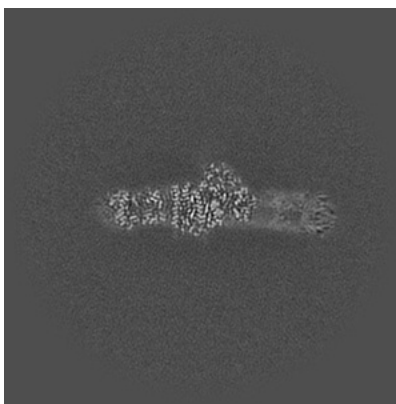
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

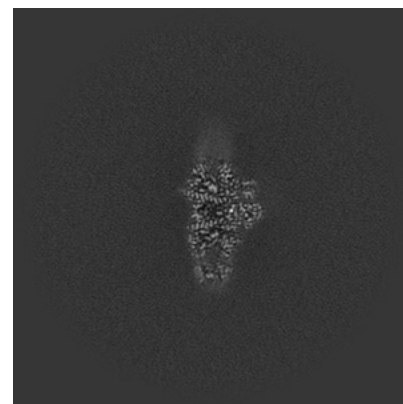
6.3.1 Primary map



X Index: 187



Y Index: 198



Z Index: 182

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

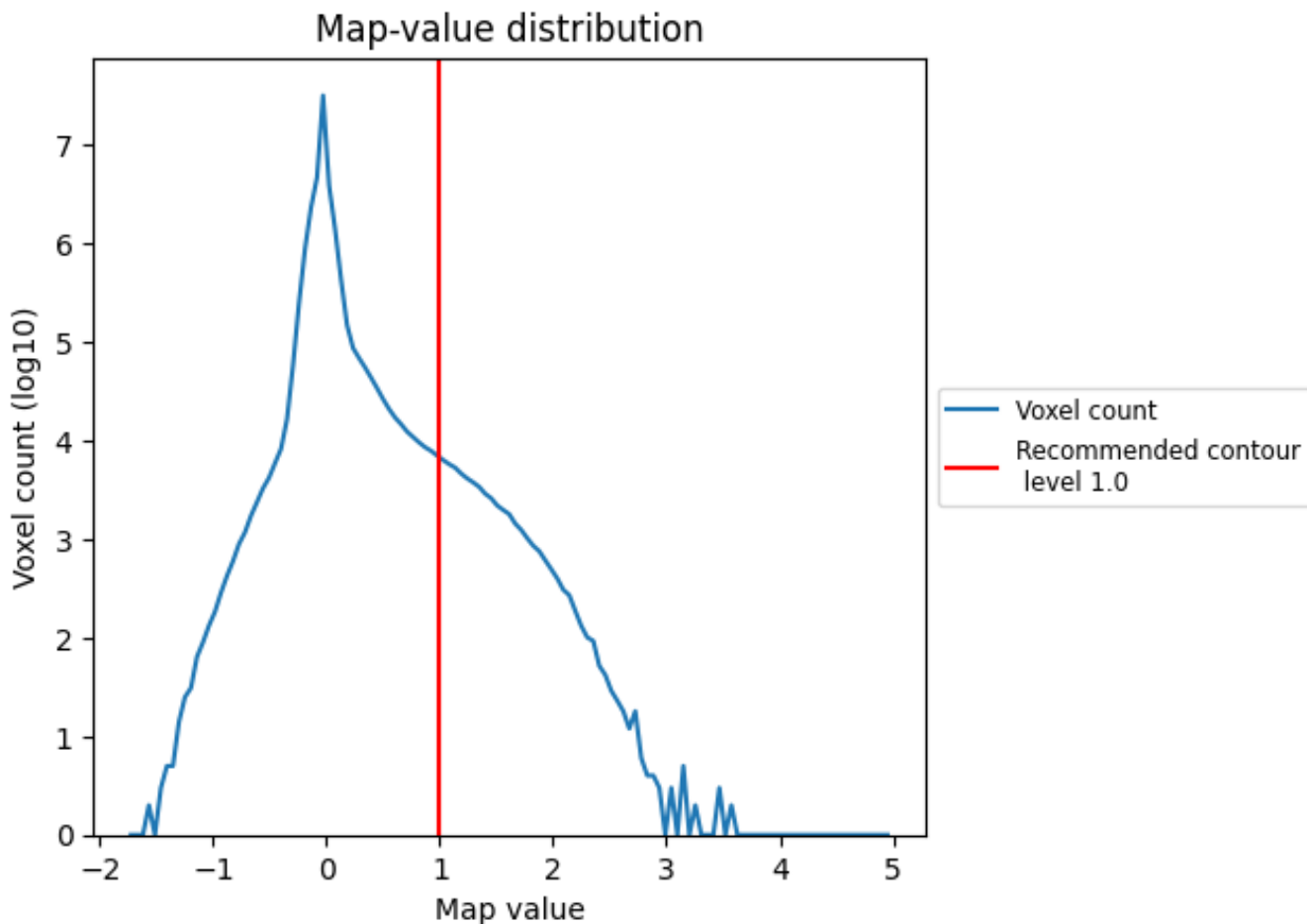
6.5 Mask visualisation

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

7 Map analysis [i](#)

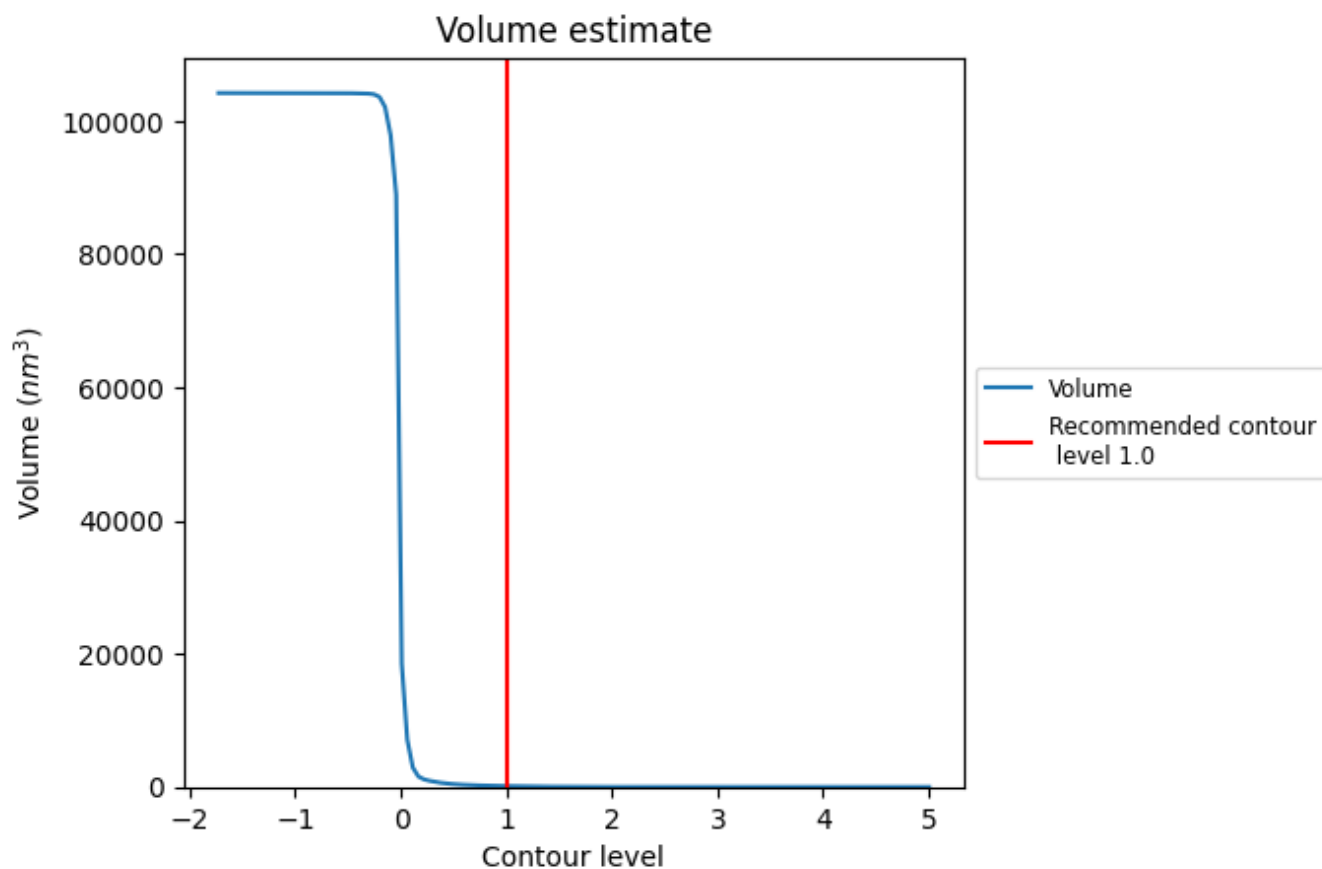
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

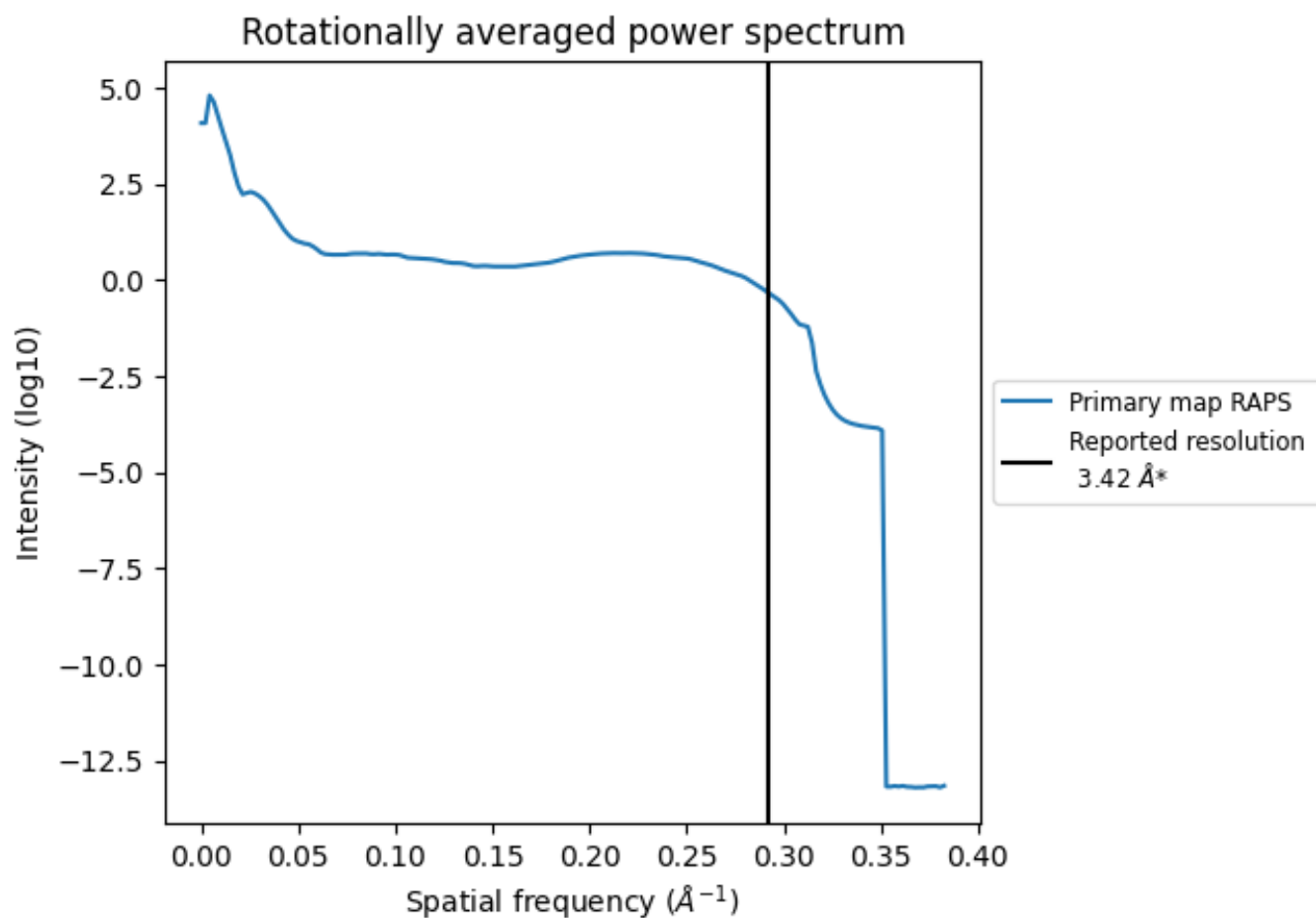
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 128 nm³; this corresponds to an approximate mass of 115 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.292\AA^{-1}

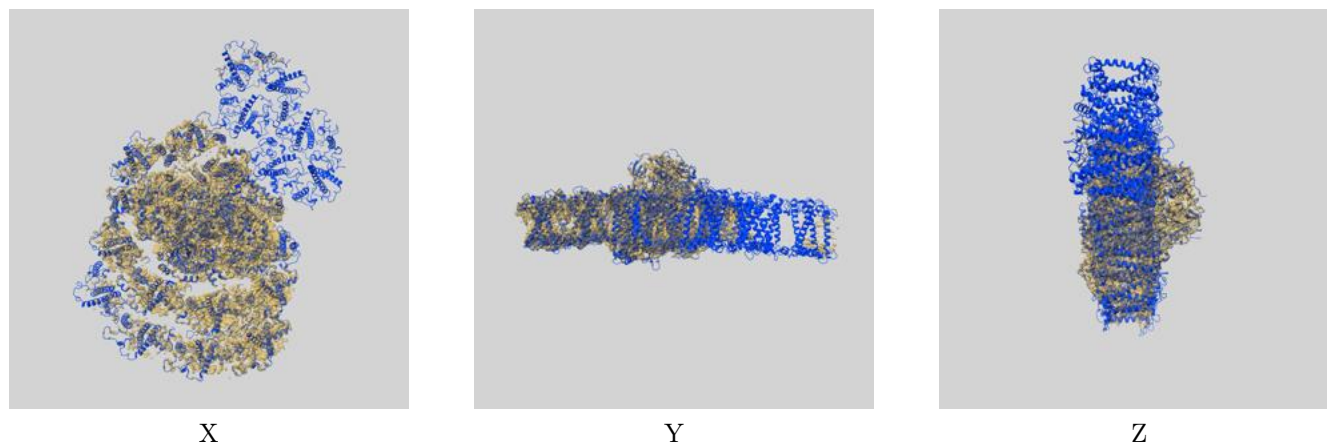
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

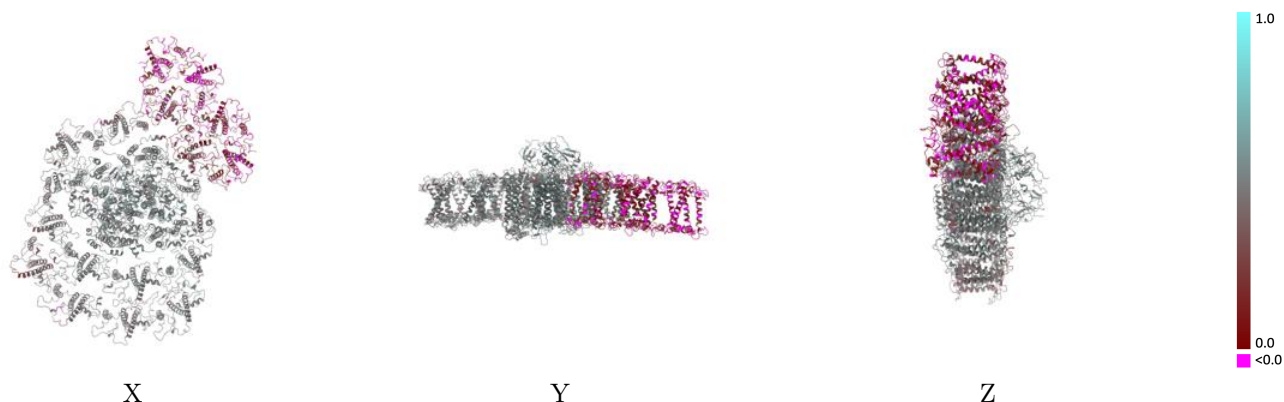
This section contains information regarding the fit between EMDB map EMD-30536 and PDB model 7D0J. Per-residue inclusion information can be found in section 3 on page 44.

9.1 Map-model overlay [i](#)



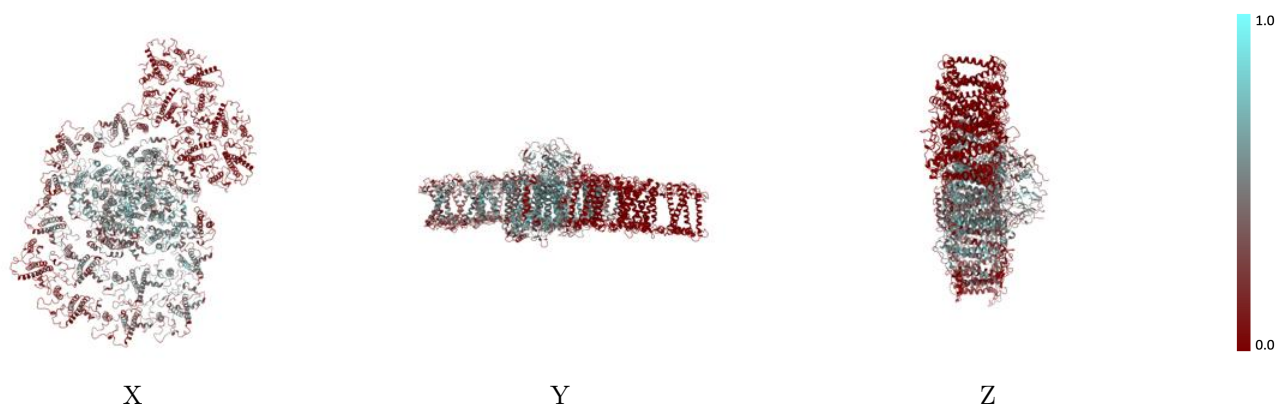
The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



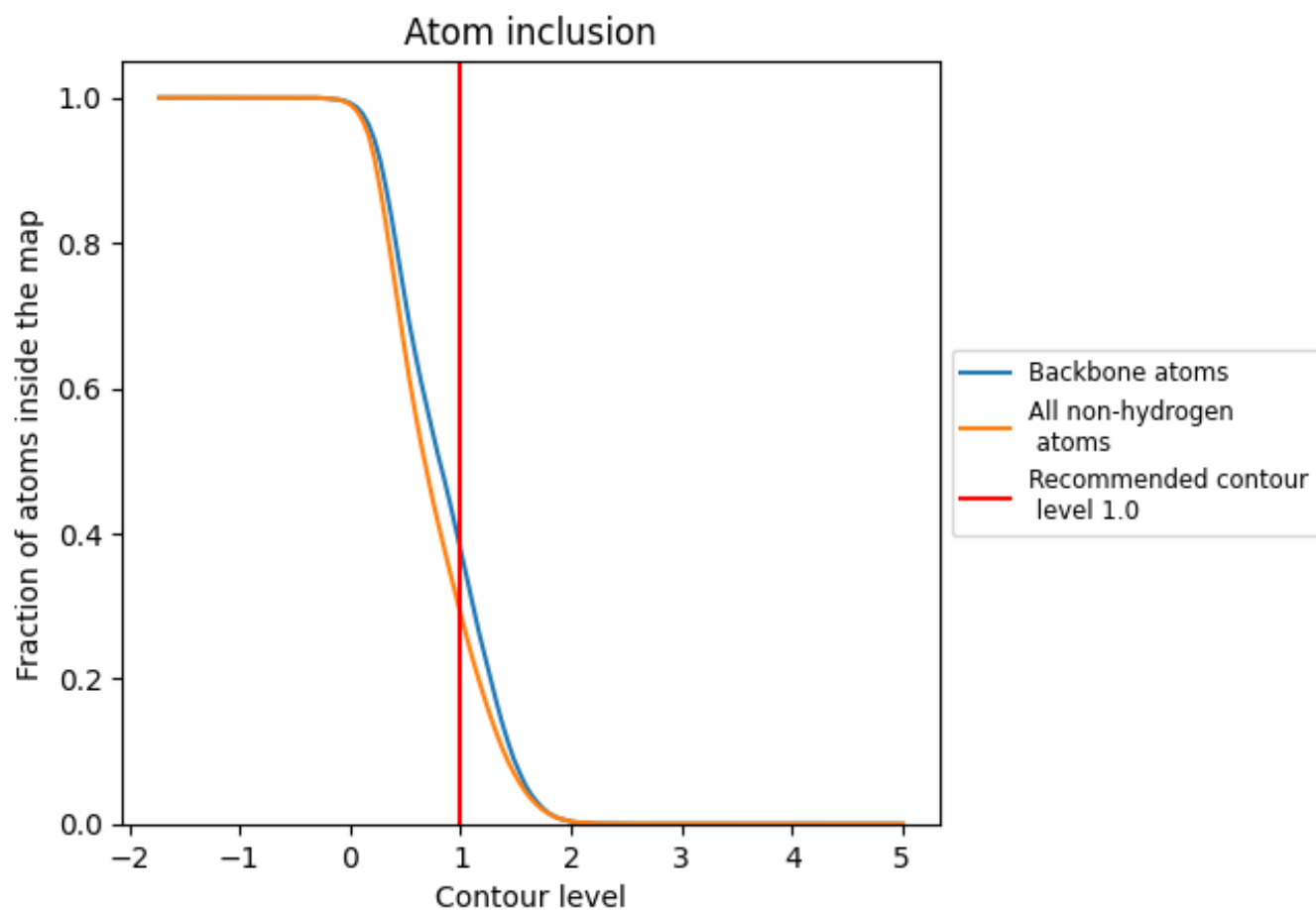
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.0).





























































9.4 Atom inclusion [i](#)



At the recommended contour level, 38% of all backbone atoms, 29% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1.0) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion | Q-score |
|-------|--|--|
| All |  0.2895 |  0.4070 |
| 1 |  0.3153 |  0.4760 |
| 2 |  0.2701 |  0.4450 |
| 3 |  0.4267 |  0.5110 |
| 4 |  0.1245 |  0.4380 |
| 5 |  0.3906 |  0.4980 |
| 6 |  0.2671 |  0.4690 |
| 7 |  0.4372 |  0.5110 |
| 8 |  0.3667 |  0.4930 |
| 9 |  0.2294 |  0.4440 |
| A |  0.5312 |  0.5300 |
| B |  0.5205 |  0.5290 |
| C |  0.5714 |  0.5210 |
| D |  0.3739 |  0.5140 |
| E |  0.3706 |  0.5020 |
| F |  0.2698 |  0.4750 |
| G |  0.1380 |  0.4410 |
| H |  0.3034 |  0.4750 |
| I |  0.4734 |  0.5110 |
| J |  0.2902 |  0.5190 |
| K |  0.1582 |  0.4560 |
| L |  0.4356 |  0.5030 |
| O |  0.3058 |  0.4670 |
| P |  0.0000 |  0.1620 |
| Q |  0.0016 |  0.0510 |
| R |  0.0047 |  0.0630 |
| S |  0.0025 |  0.2360 |
| T |  0.0000 |  0.1130 |
| U |  0.0000 |  0.1020 |
| a |  0.0573 |  0.3750 |

