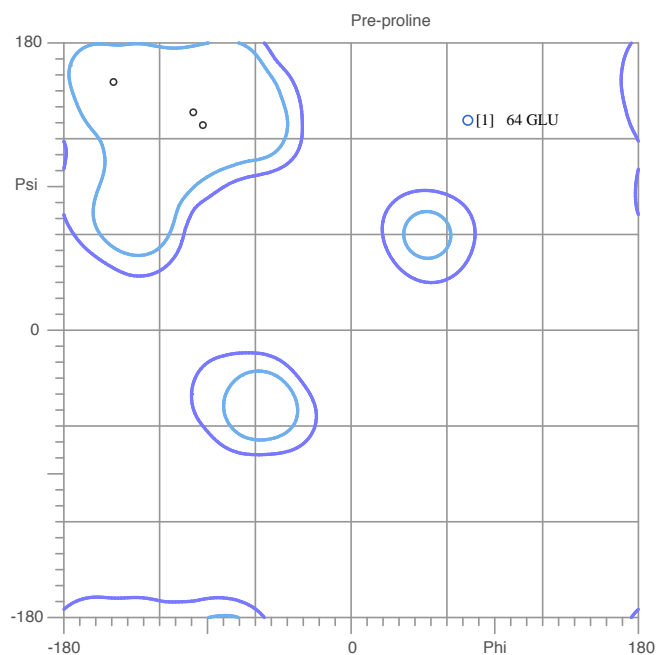
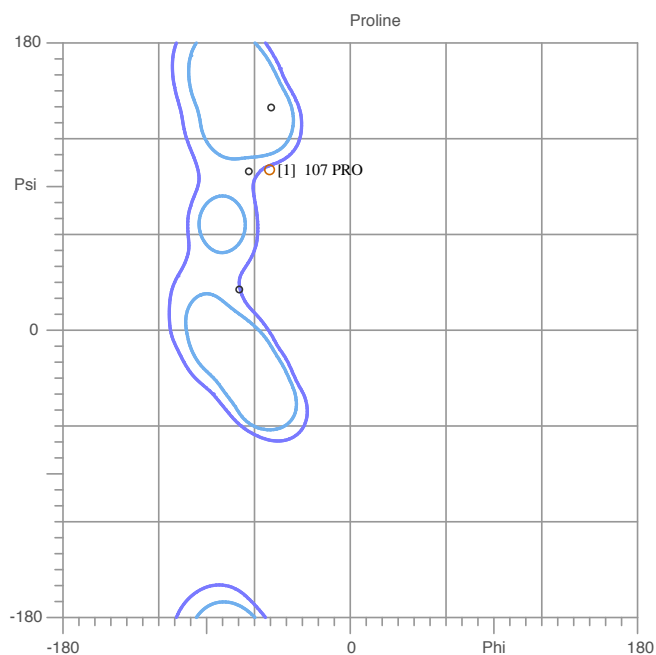
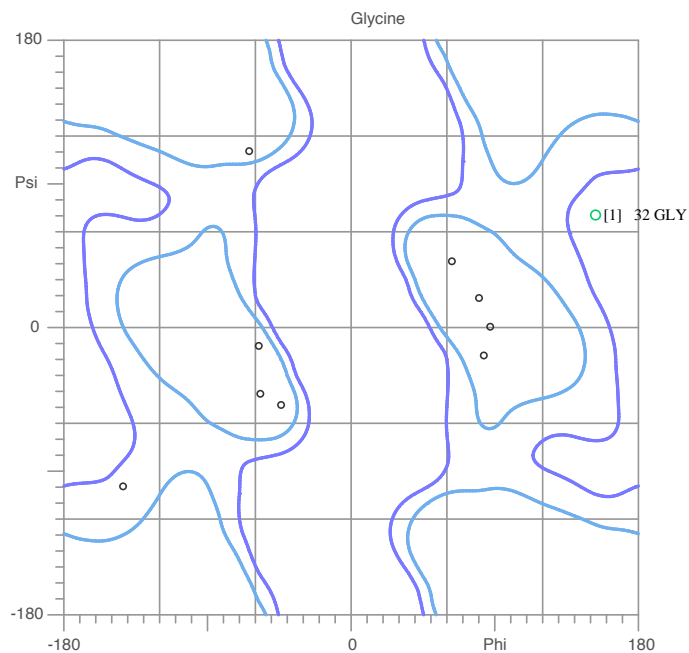
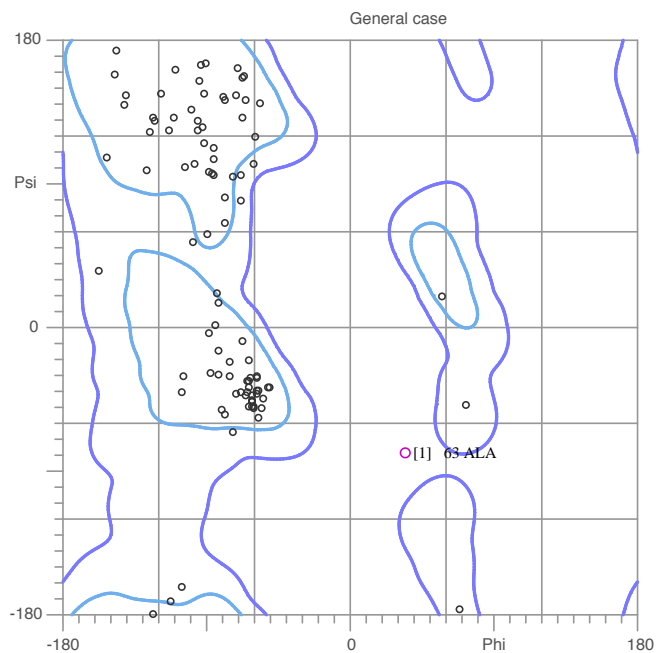




# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 1



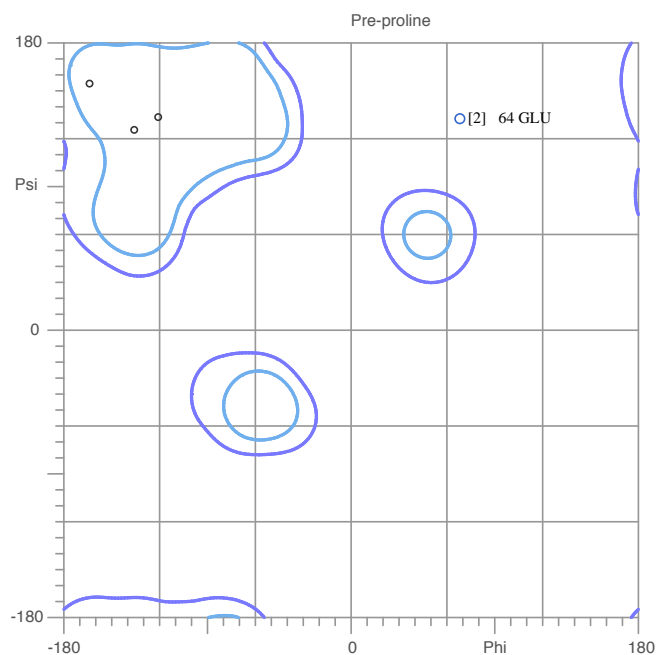
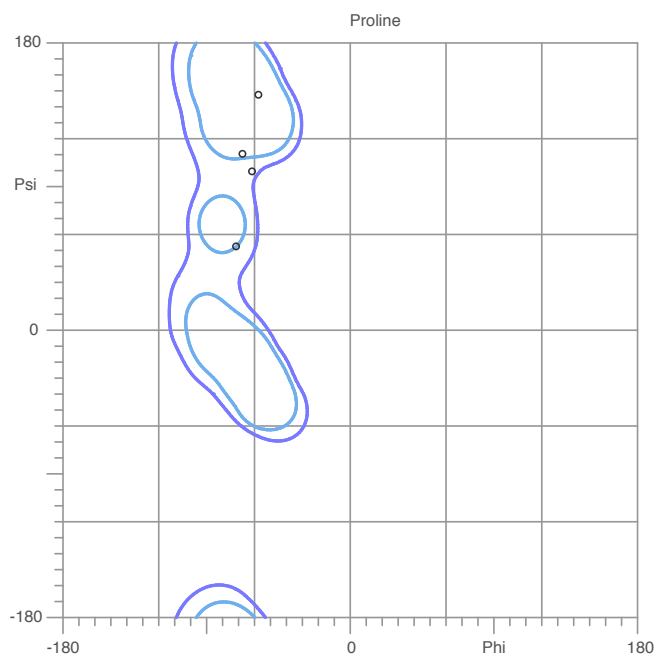
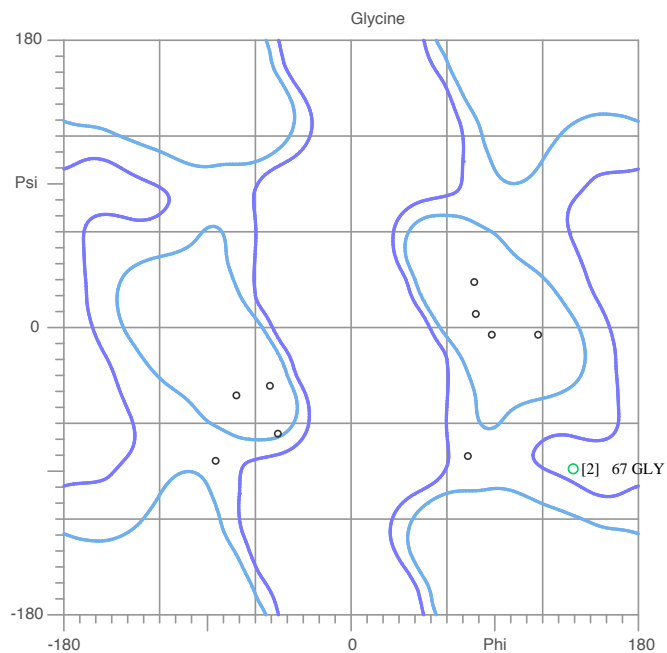
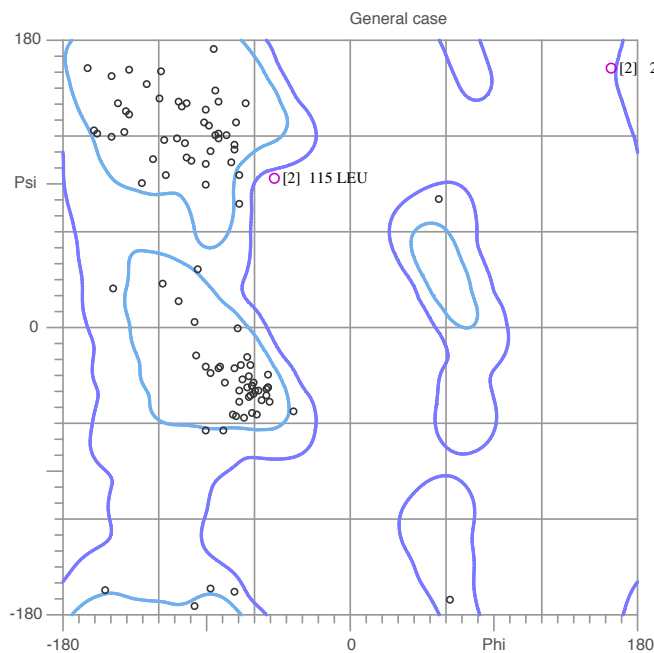
84.2% (96/114) of all residues were in favored (98%) regions.  
96.5% (110/114) of all residues were in allowed (>99.8%) regions.

There were 4 outliers (phi, psi):

- [1] 32 GLY (153.5, 71.4)
- [1] 63 ALA (34.2, -78.4)
- [1] 64 GLU (73.2, 132.7)
- [1] 107 PRO (-51.7, 101.3)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 2



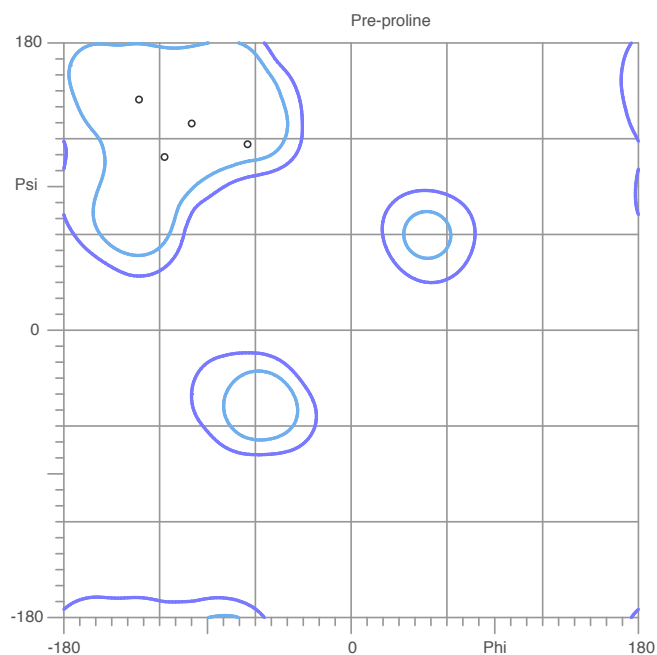
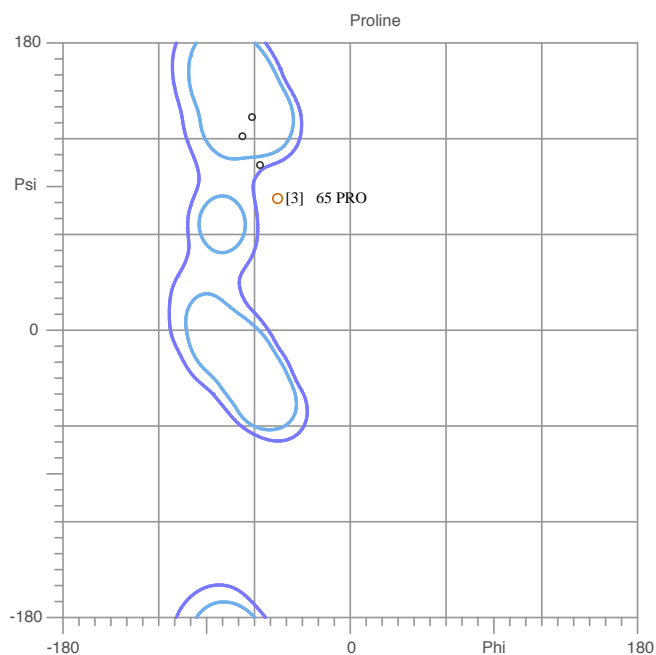
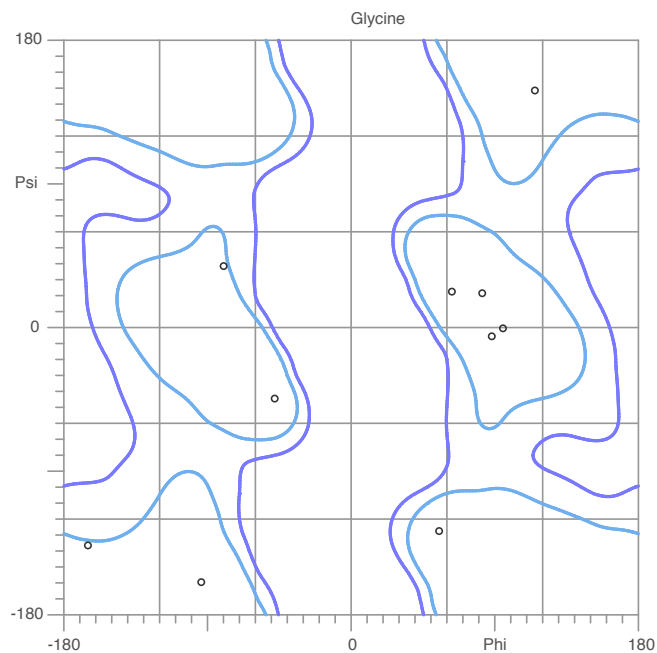
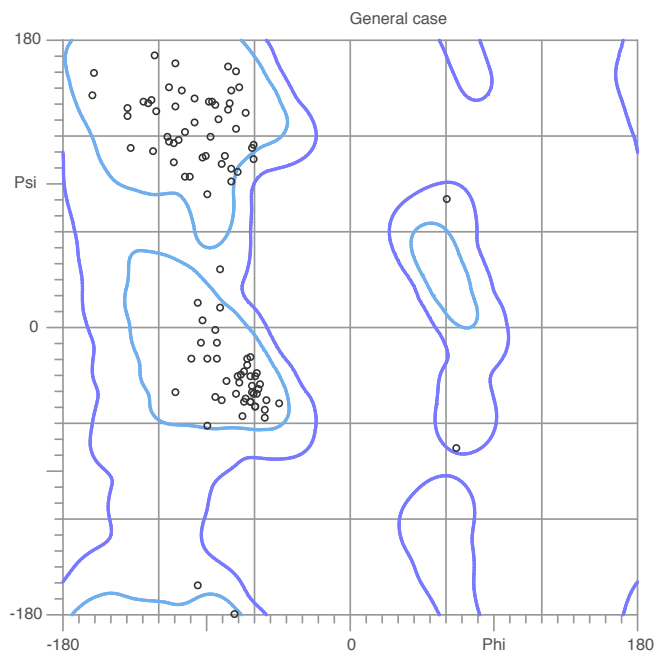
83.3% (95/114) of all residues were in favored (98%) regions.  
96.5% (110/114) of all residues were in allowed (>99.8%) regions.

There were 4 outliers (phi, psi):

- [2] 25 SER (164.0, 163.3)
- [2] 64 GLU (69.0, 133.8)
- [2] 67 GLY (139.5, -88.7)
- [2] 115 LEU (-48.9, 94.8)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 3

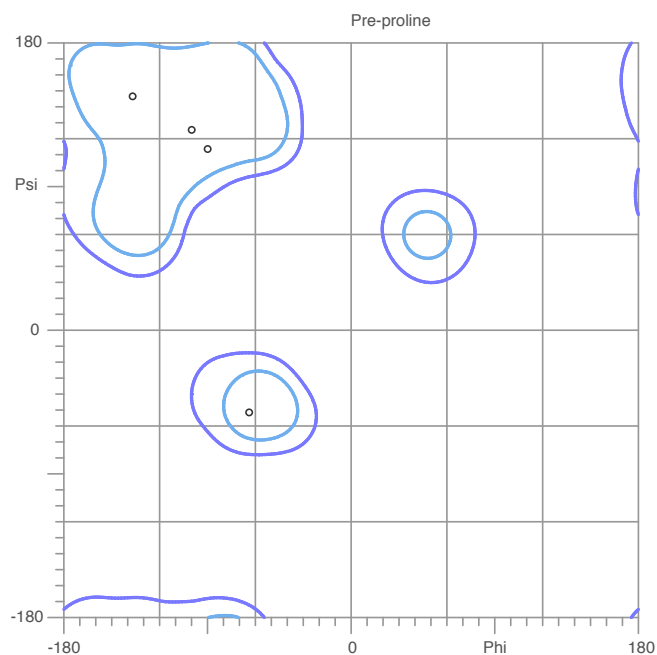
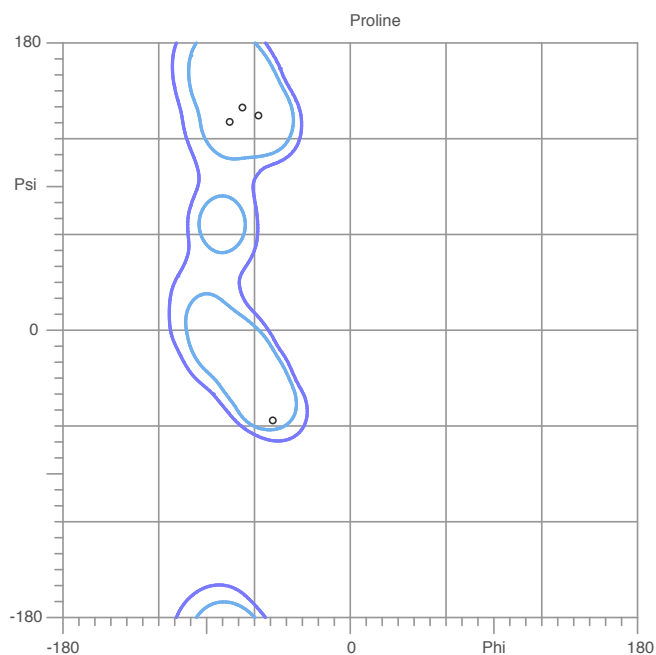
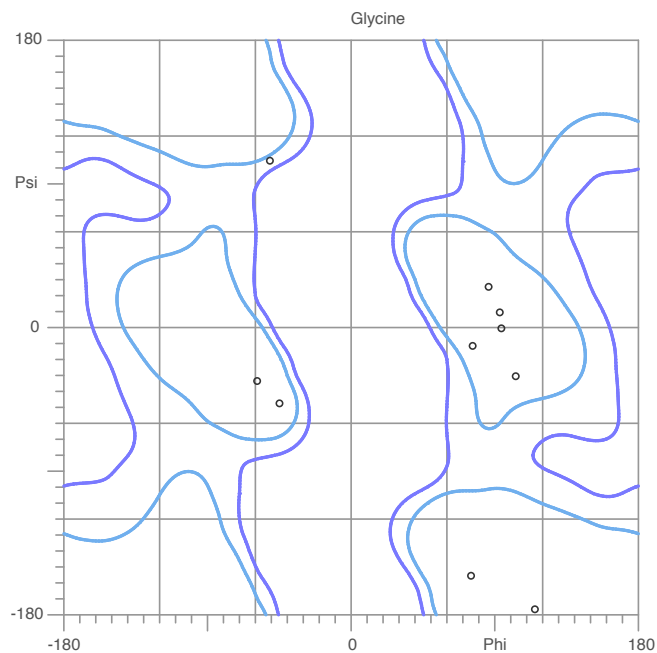
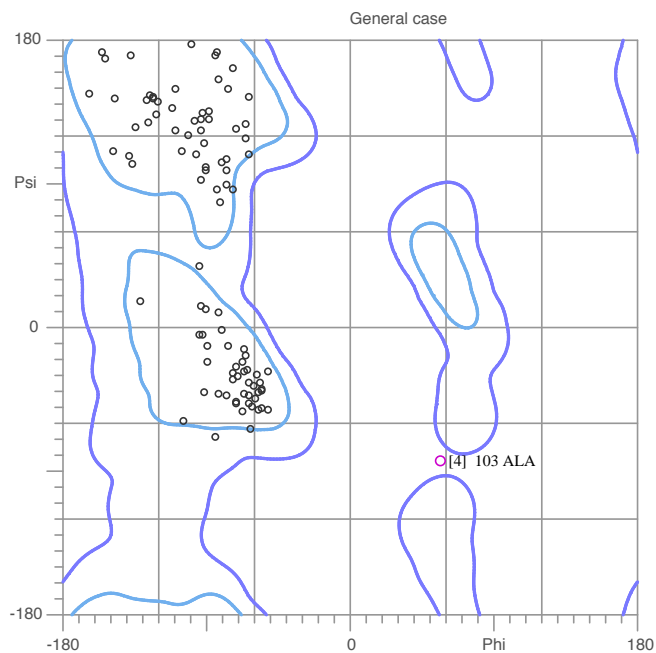


93.9% (107/114) of all residues were in favored (98%) regions.  
99.1% (113/114) of all residues were in allowed (>99.8%) regions.

There were 1 outliers (phi, psi):  
[3] 65 PRO (-46.3, 83.3)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 4



95.6% (109/114) of all residues were in favored (98%) regions.  
99.1% (113/114) of all residues were in allowed (>99.8%) regions.

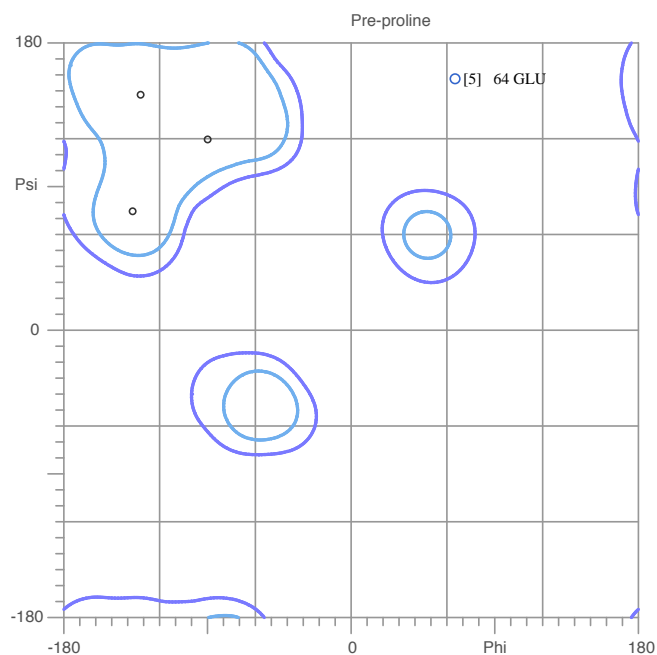
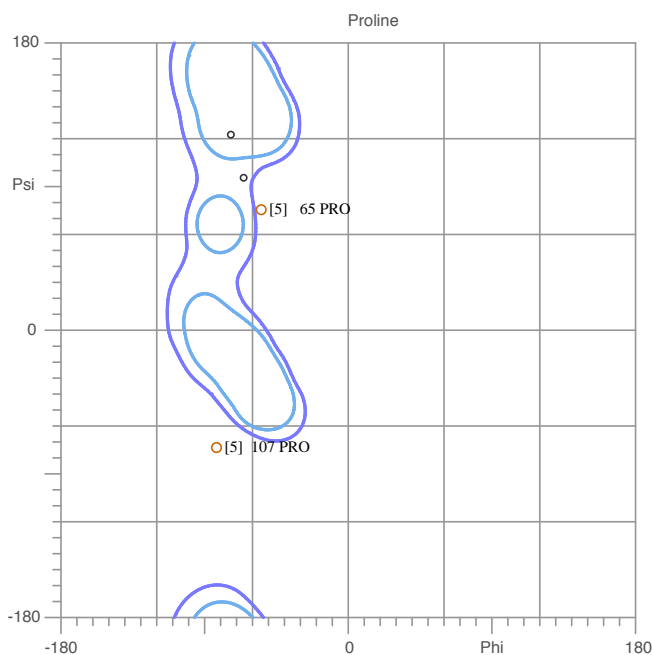
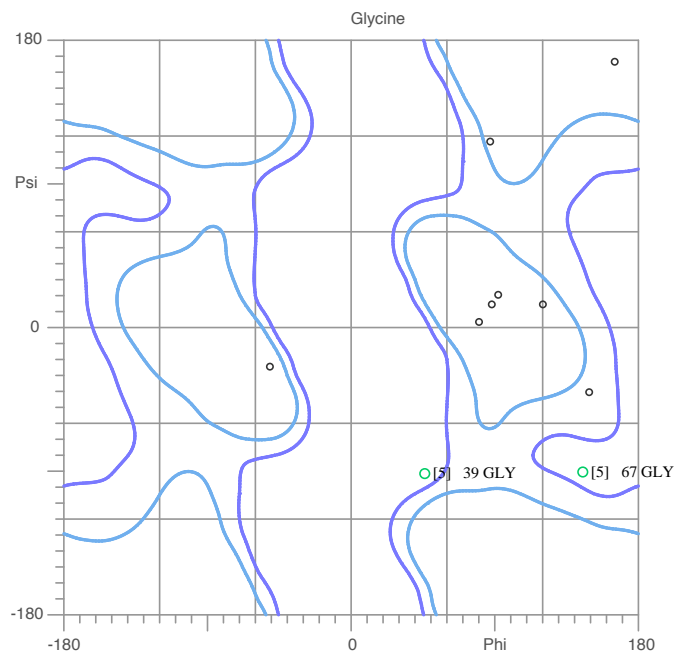
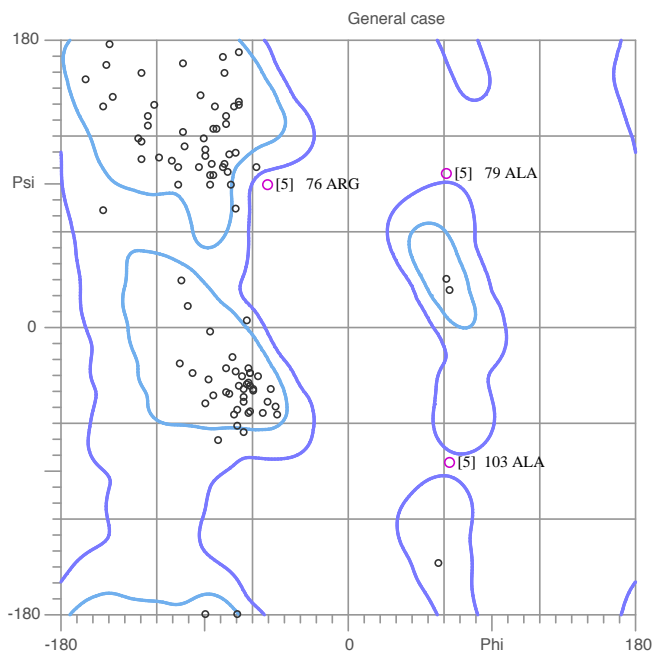
There were 1 outliers (phi, psi):  
[4] 103 ALA (56.6, -83.5)

<http://kinemage.biochem.duke.edu>

Lovell, Davis, et al. Proteins 50:437 (2003)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 5



85.1% (97/114) of all residues were in favored (98%) regions.  
93.0% (106/114) of all residues were in allowed (>99.8%) regions.

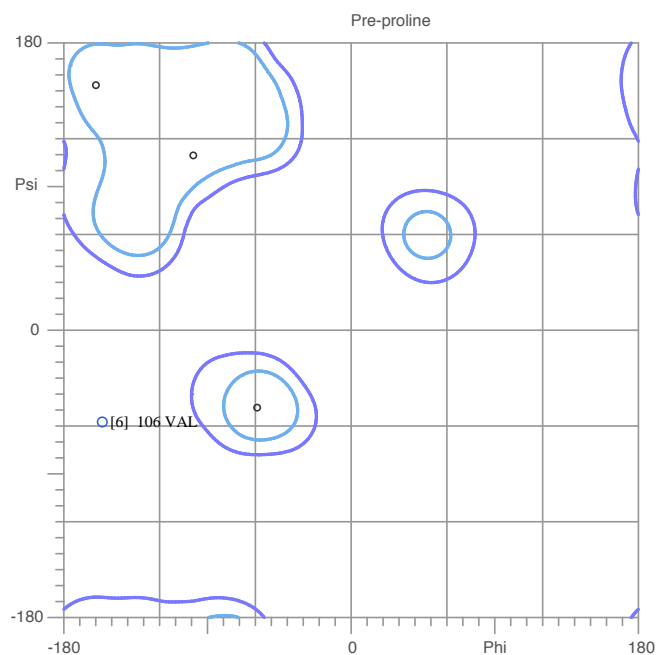
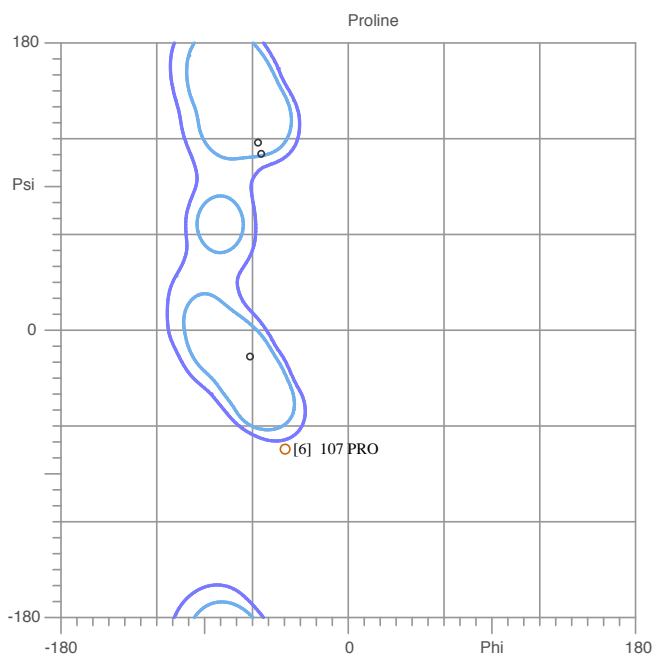
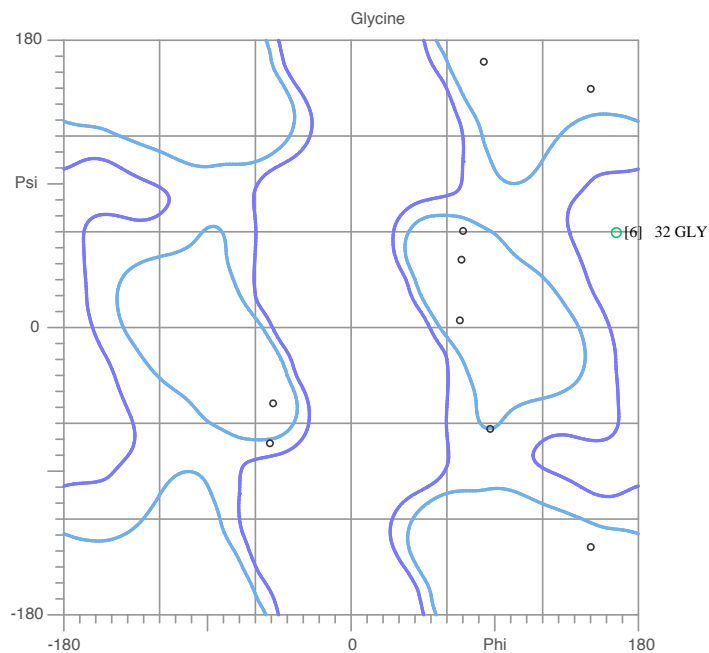
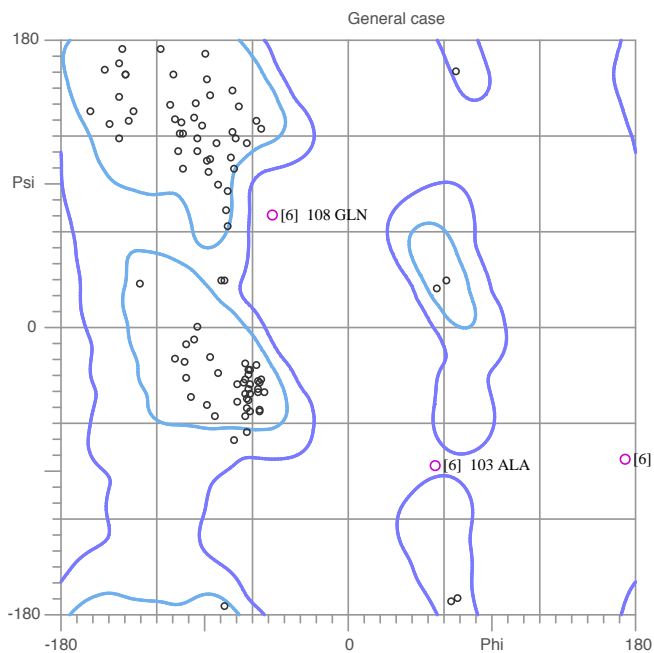
There were 8 outliers (phi, psi):

[5] 39 GLY (46.7, -91.9)  
[5] 64 GLU (65.7, 158.9)

[5] 65 PRO (-55.9, 76.5)  
[5] 67 GLY (145.5, -90.6)  
[5] 76 ARG (-51.4, 90.9)  
[5] 79 ALA (61.4, 97.0)  
[5] 103 ALA (63.4, -85.0)  
[5] 107 PRO (-83.6, -73.9)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 6



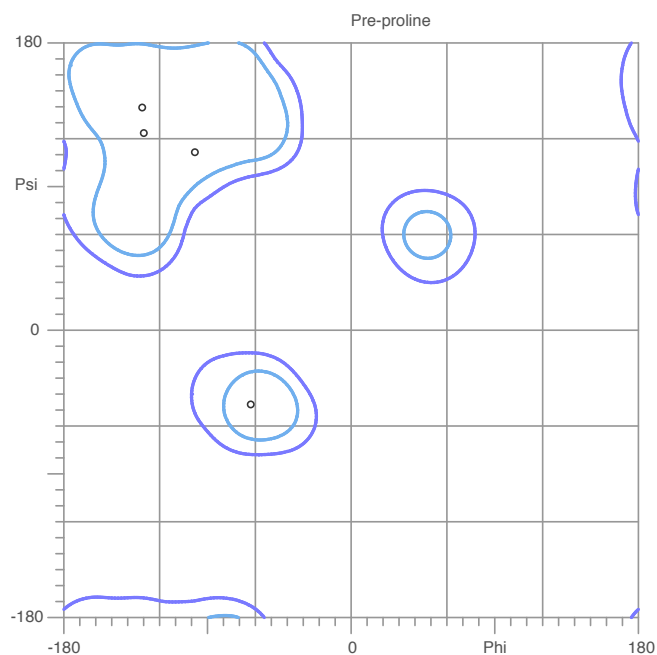
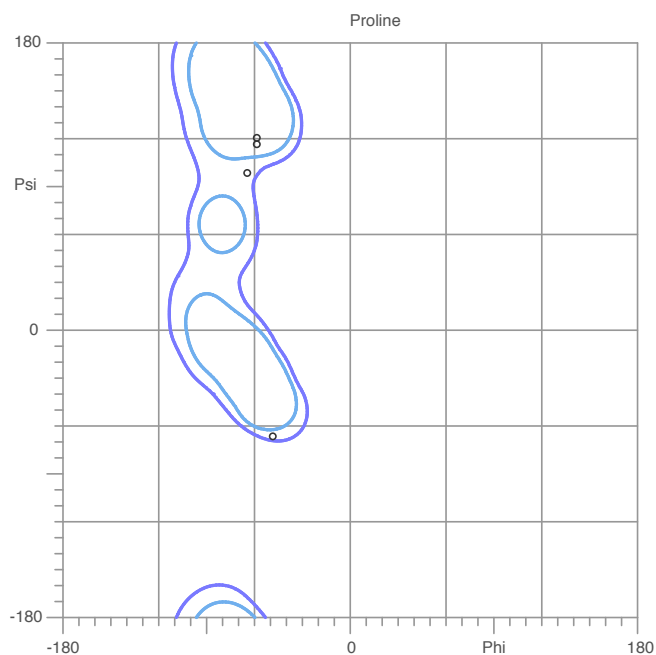
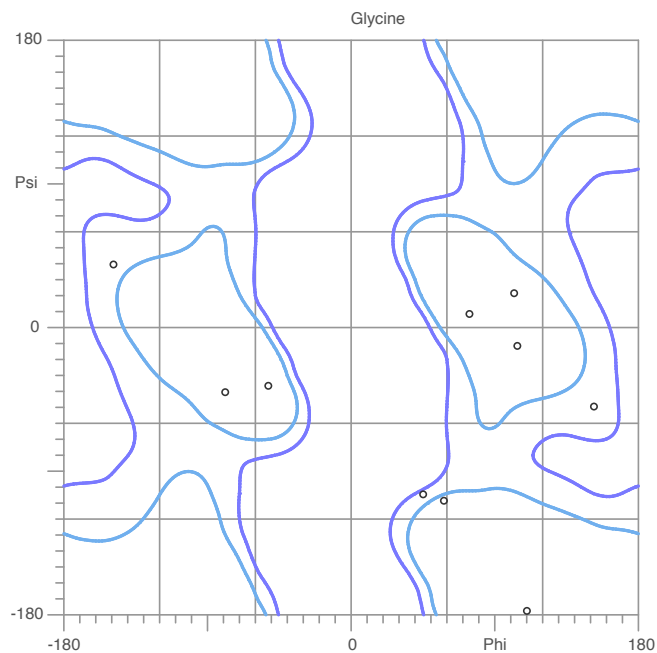
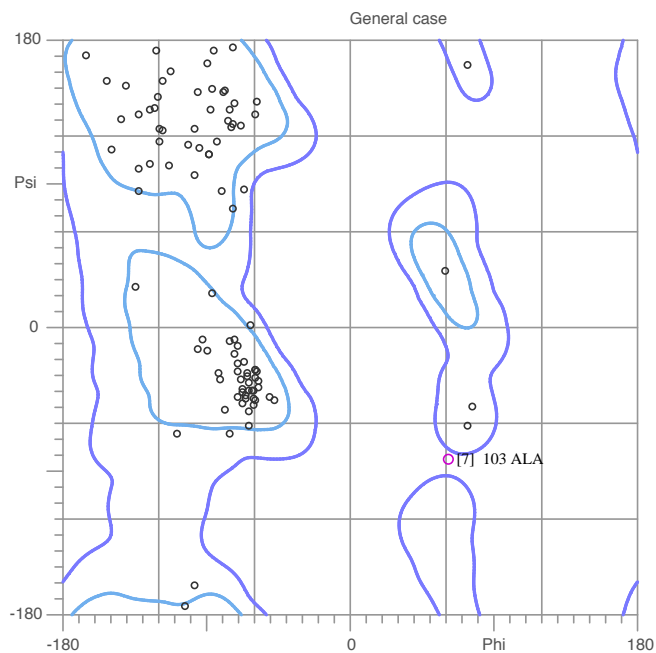
87.7% (100/114) of all residues were in favored (98%) regions.  
94.7% (108/114) of all residues were in allowed (>99.8%) regions.

There were 6 outliers (phi, psi):  
[6] 32 GLY (166.3, 60.3)

[6] 103 ALA (54.8, -86.4)  
[6] 106 VAL (-156.1, -57.8)  
[6] 107 PRO (-40.7, -74.5)  
[6] 108 GLN (-48.7, 71.5)  
[6] 114 ALA (173.9, -82.1)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 7



87.7% (100/114) of all residues were in favored (98%) regions.  
99.1% (113/114) of all residues were in allowed (>99.8%) regions.

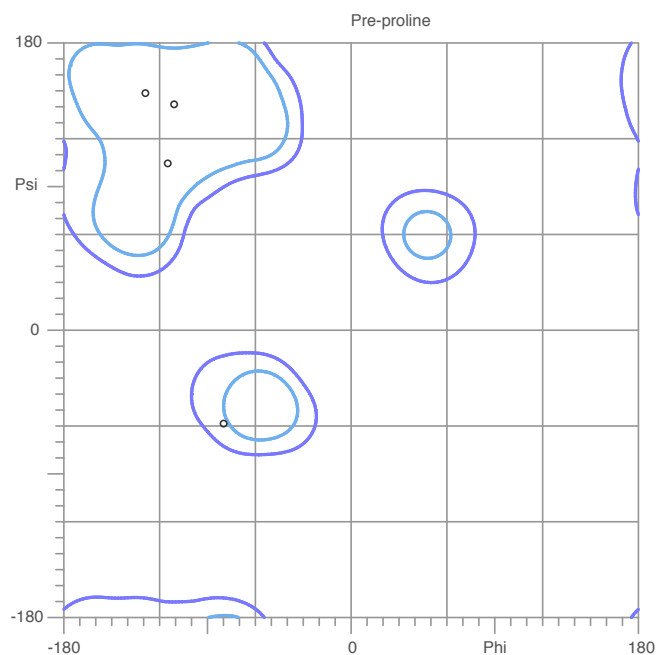
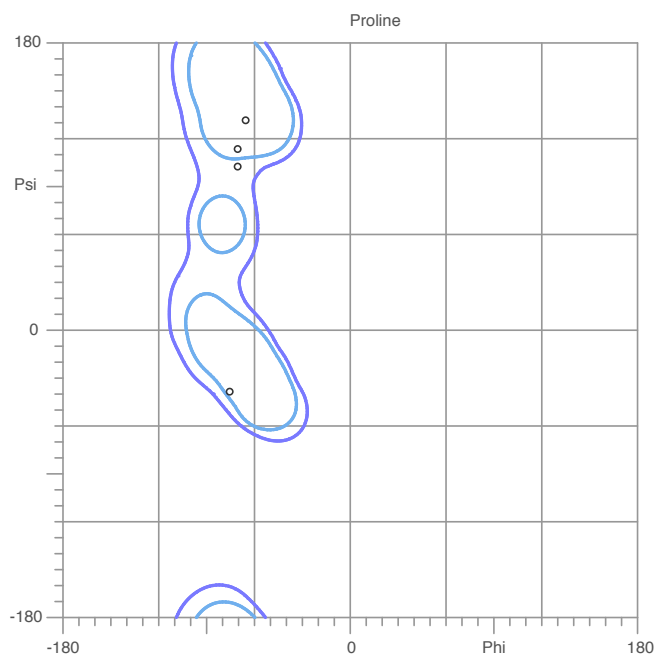
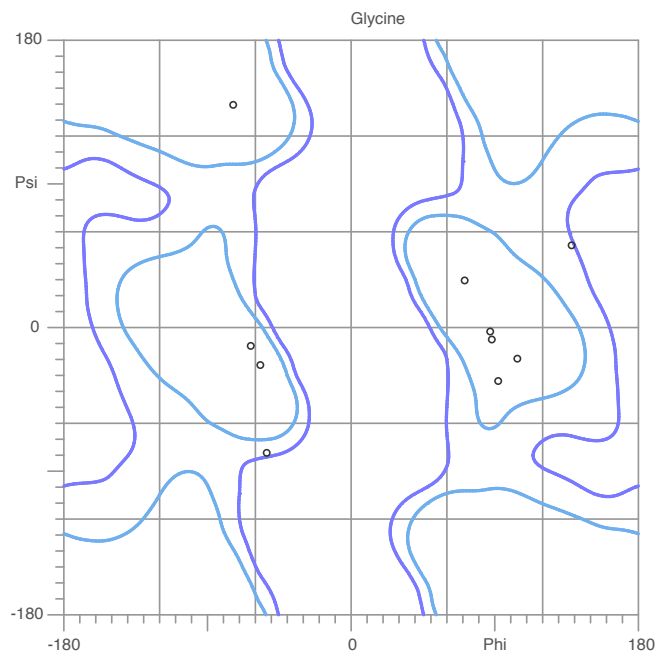
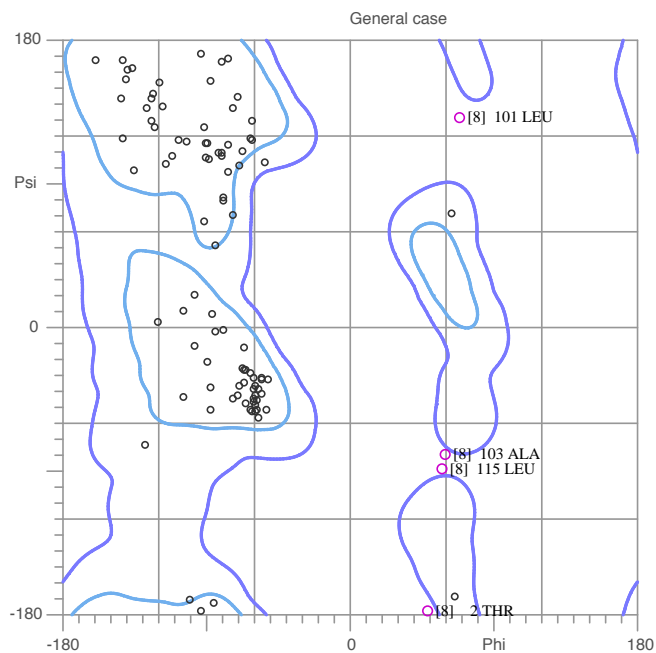
There were 1 outliers (phi, psi):  
[7] 103 ALA (61.1, -82.2)

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Lovell, Davis, et al. Proteins 50:437 (2003)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 8



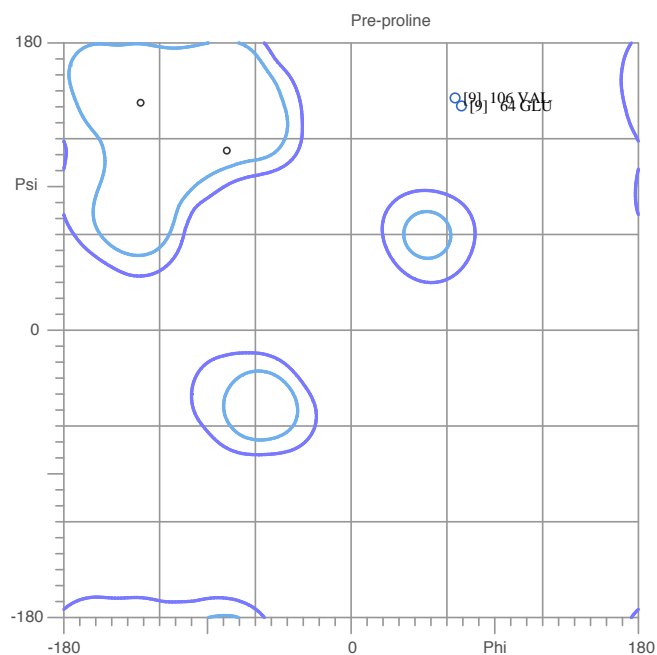
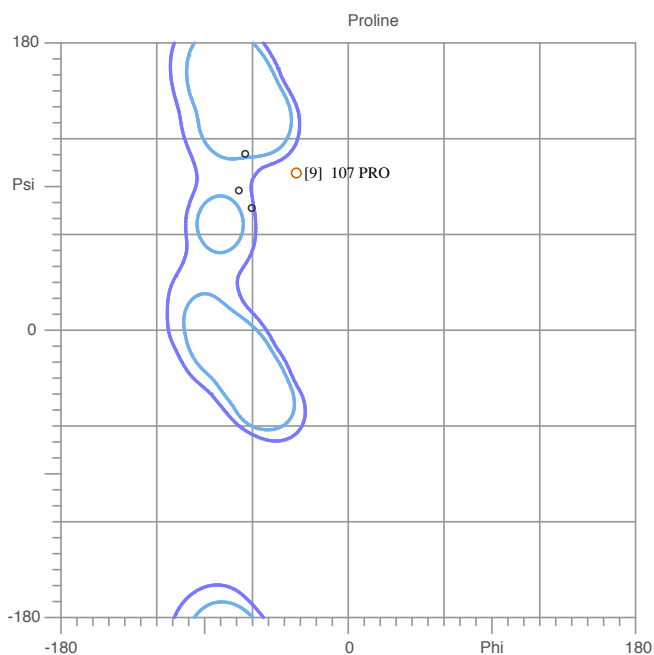
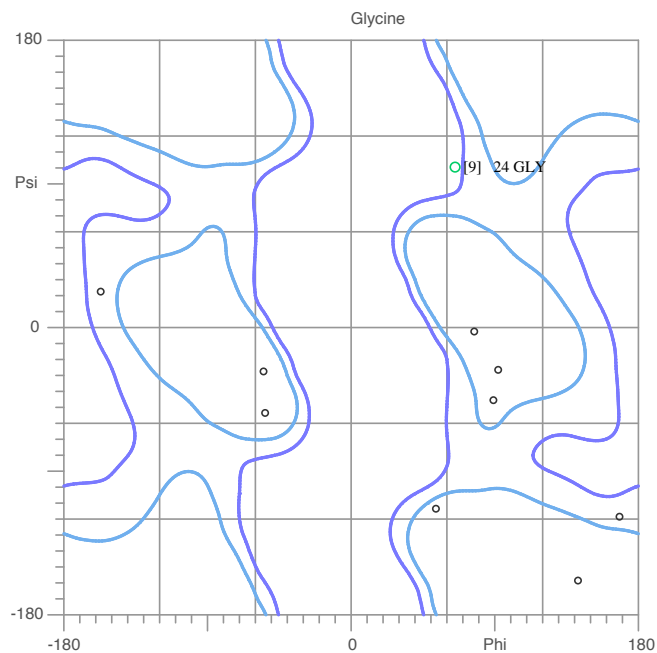
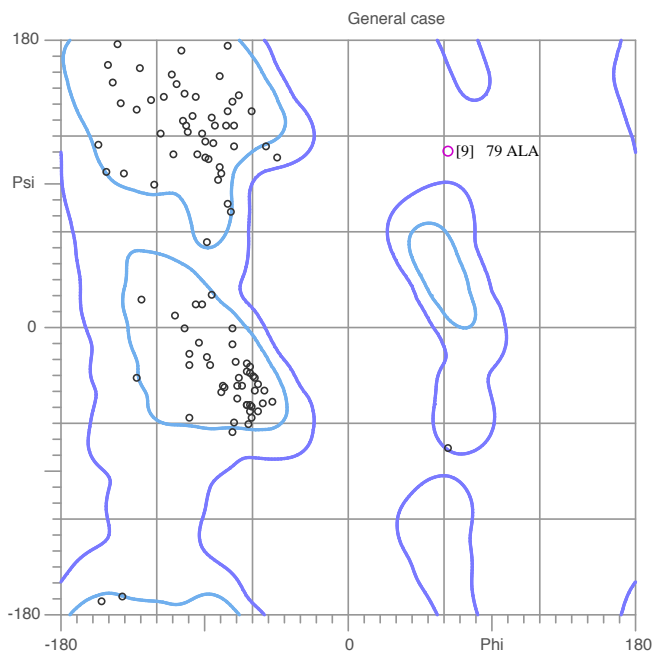
88.6% (101/114) of all residues were in favored (98%) regions.  
96.5% (110/114) of all residues were in allowed (>99.8%) regions.

There were 4 outliers (phi, psi):

- [8] 2 THR (49.0, -177.7)
- [8] 101 LEU (68.3, 132.8)
- [8] 103 ALA (59.2, -79.8)
- [8] 115 LEU (57.1, -88.3)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 9



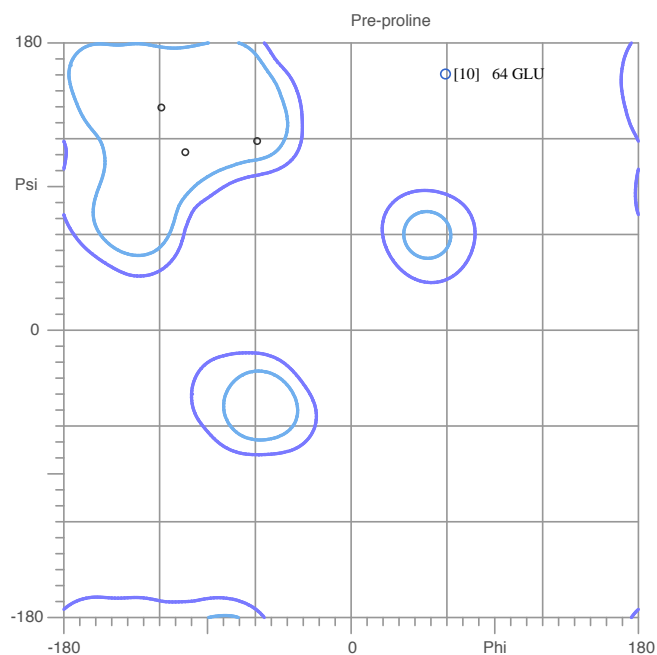
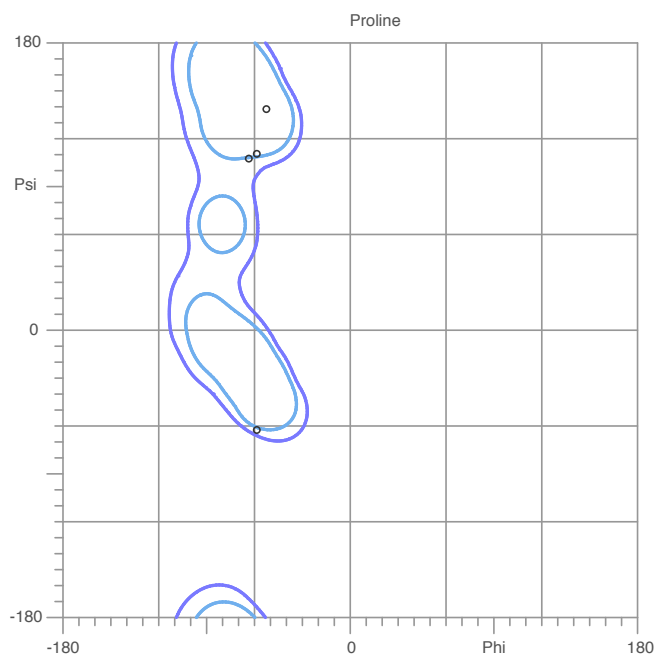
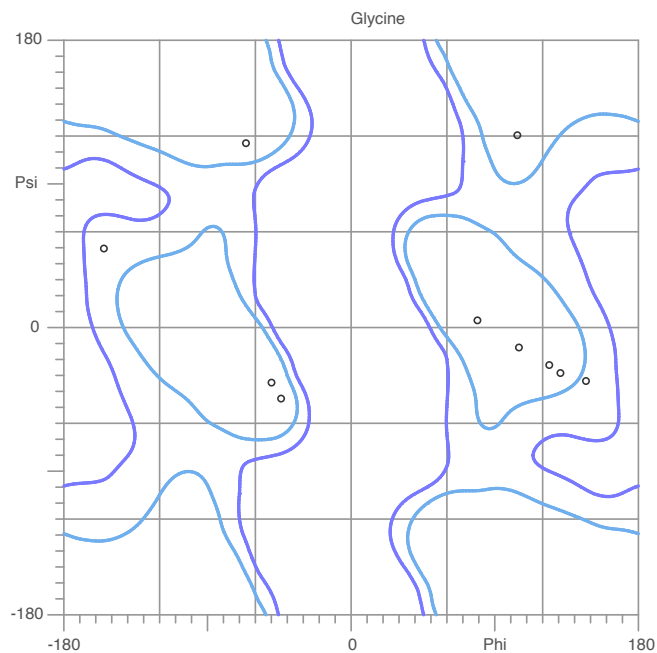
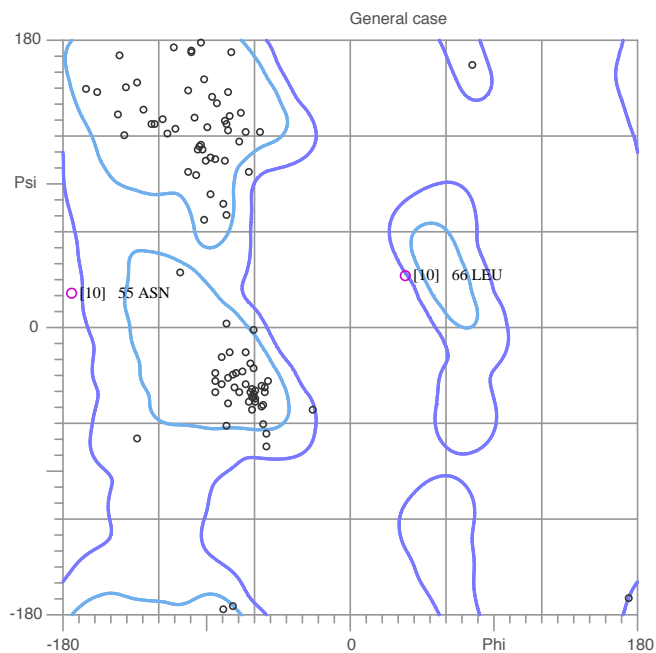
87.7% (100/114) of all residues were in favored (98%) regions.  
95.6% (109/114) of all residues were in allowed (>99.8%) regions.

There were 5 outliers (phi, psi):

[9] 24 GLY (66.0, 101.6)  
[9] 64 GLU (69.4, 141.5)  
[9] 79 ALA (62.9, 111.4)  
[9] 106 VAL (65.7, 146.0)  
[9] 107 PRO (-33.3, 99.4)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 10



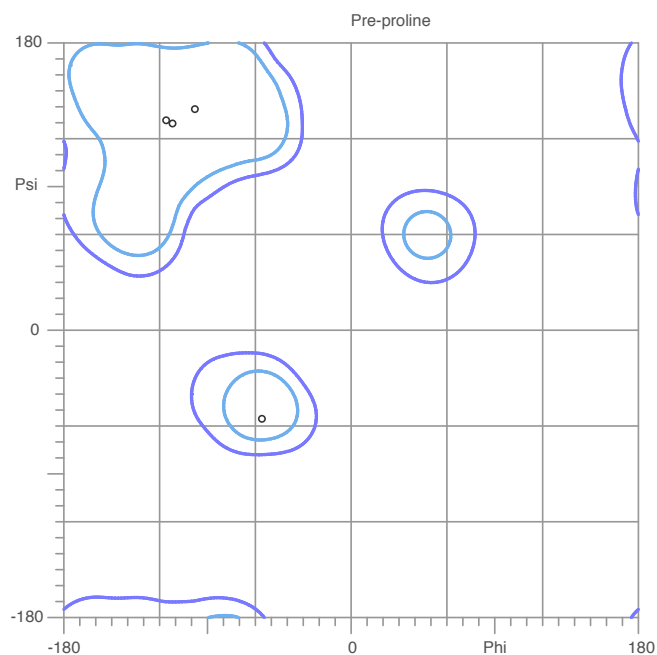
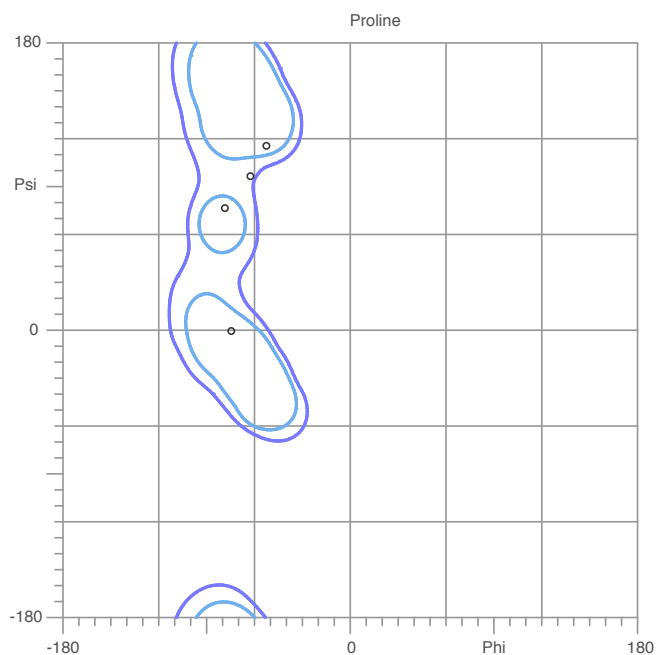
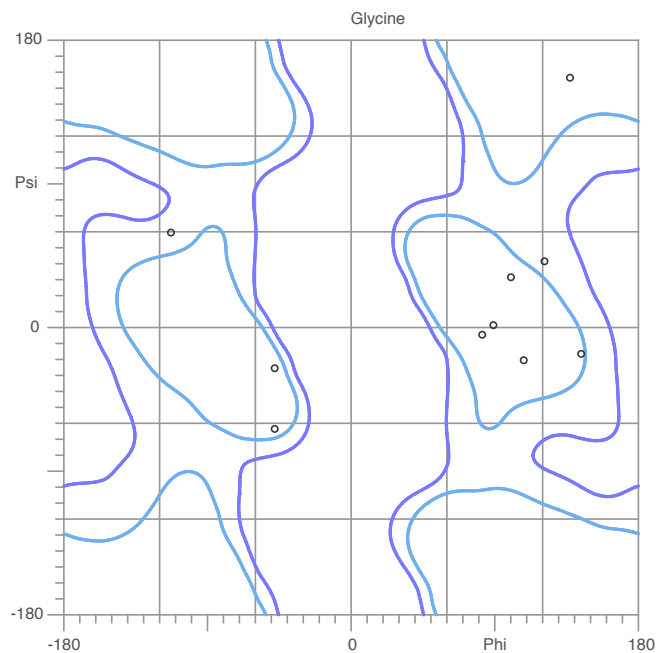
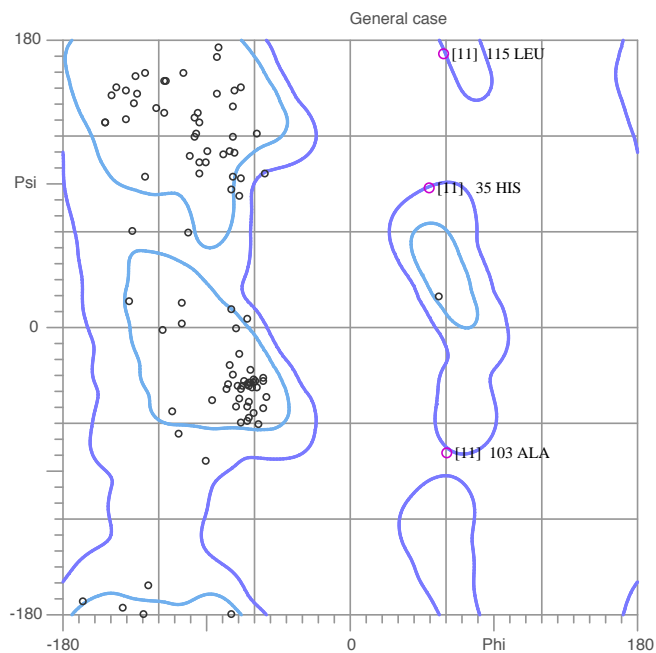
87.7% (100/114) of all residues were in favored (98%) regions.  
97.4% (111/114) of all residues were in allowed (>99.8%) regions.

There were 3 outliers (phi, psi):

- [10] 55 ASN (-175.4, 22.6)
- [10] 64 GLU (59.2, 161.5)
- [10] 66 LEU (34.6, 33.7)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 11



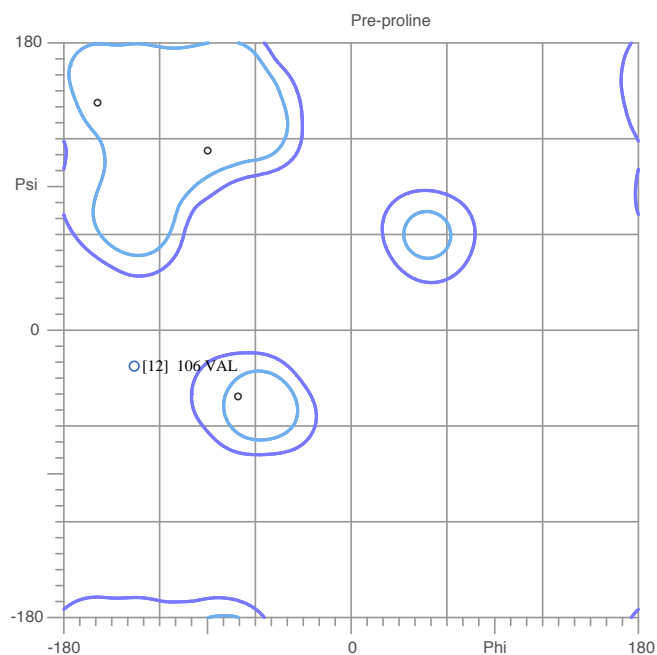
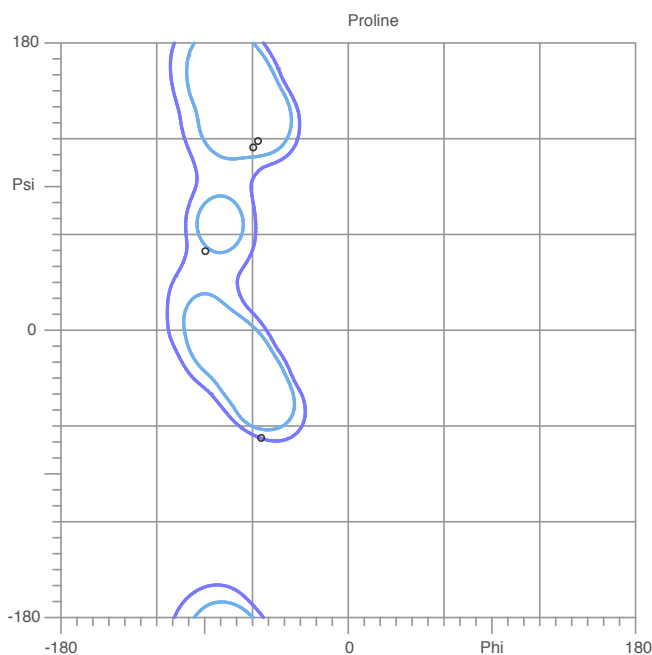
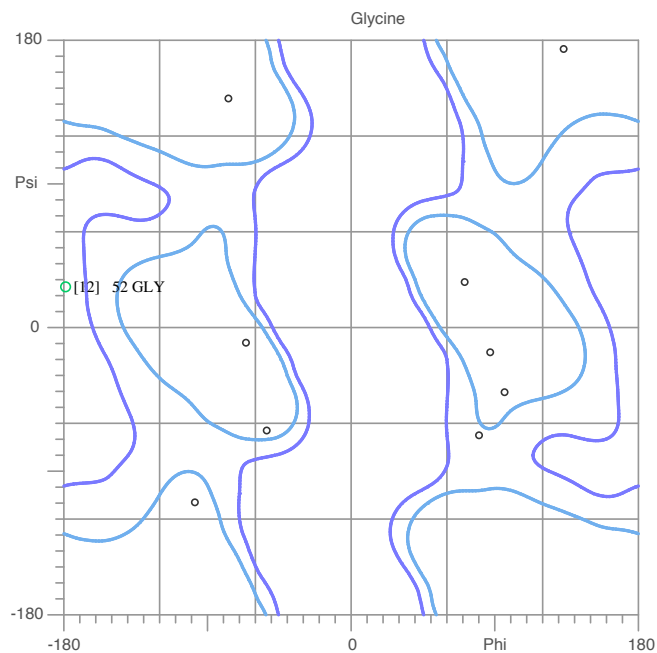
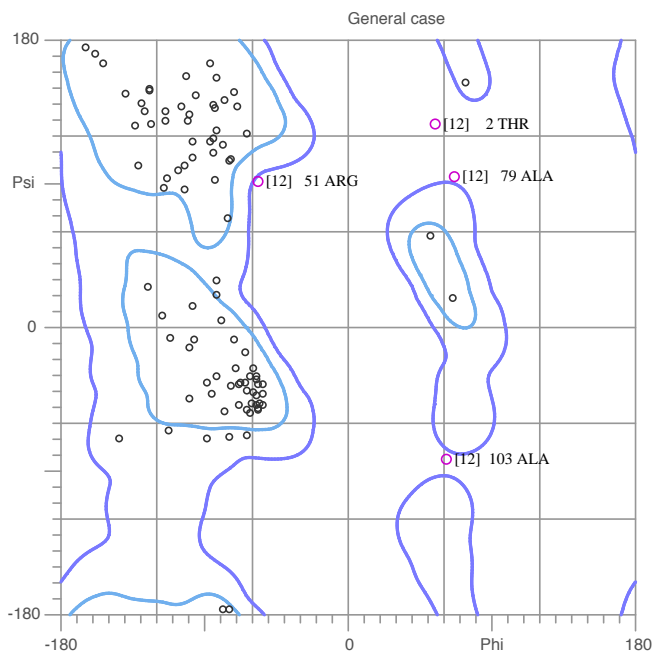
86.0% (98/114) of all residues were in favored (98%) regions.  
97.4% (111/114) of all residues were in allowed (>99.8%) regions.

There were 3 outliers (phi, psi):

- [11] 35 HIS (49.6, 88.7)
- [11] 103 ALA (60.8, -78.2)
- [11] 115 LEU (58.4, 172.6)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 12



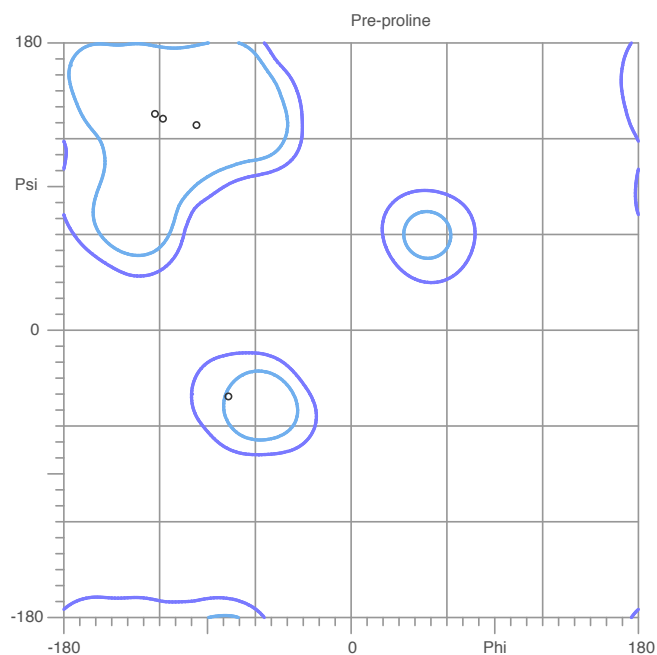
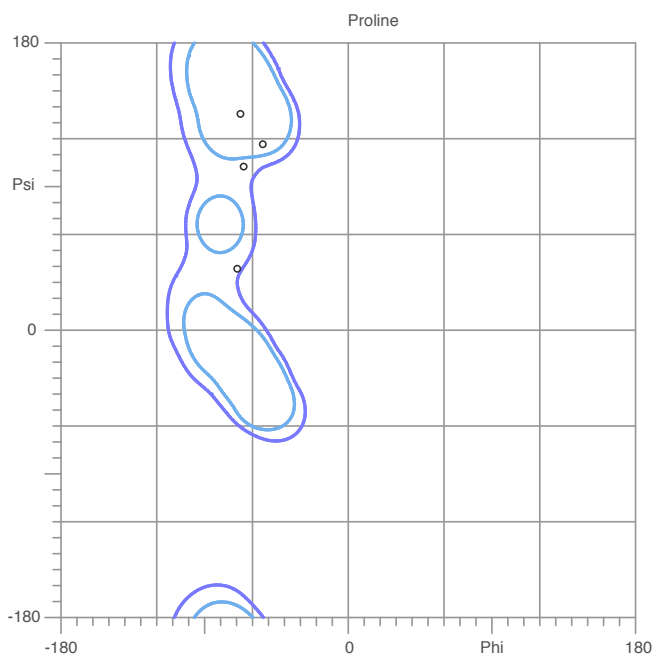
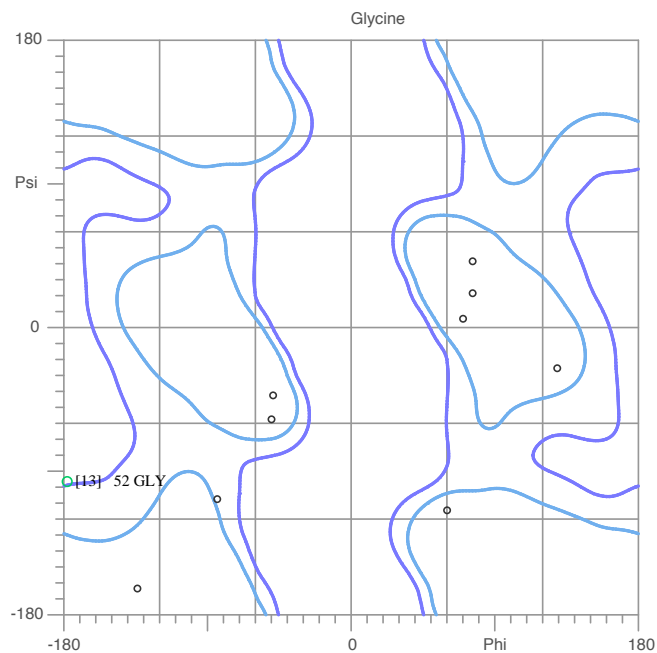
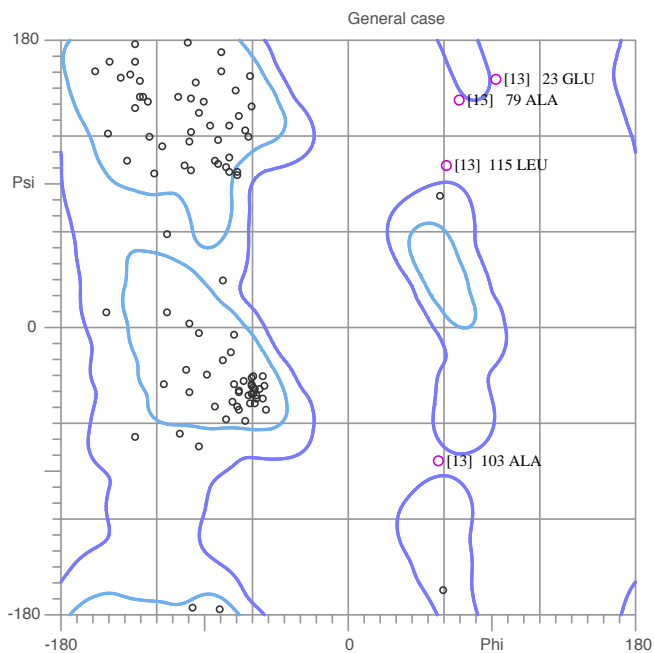
85.1% (97/114) of all residues were in favored (98%) regions.  
94.7% (108/114) of all residues were in allowed (>99.8%) regions.

There were 6 outliers (phi, psi):  
[12] 2 THR (55.0, 128.2)

[12] 51 ARG (-58.0, 93.0)  
[12] 52 GLY (-179.4, 26.9)  
[12] 79 ALA (66.1, 95.9)  
[12] 103 ALA (61.5, -82.9)  
[12] 106 VAL (-136.4, -22.1)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 13



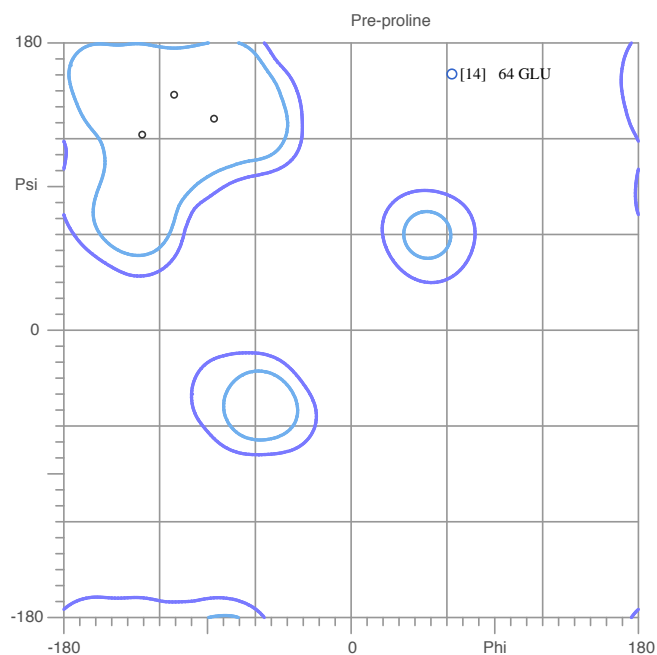
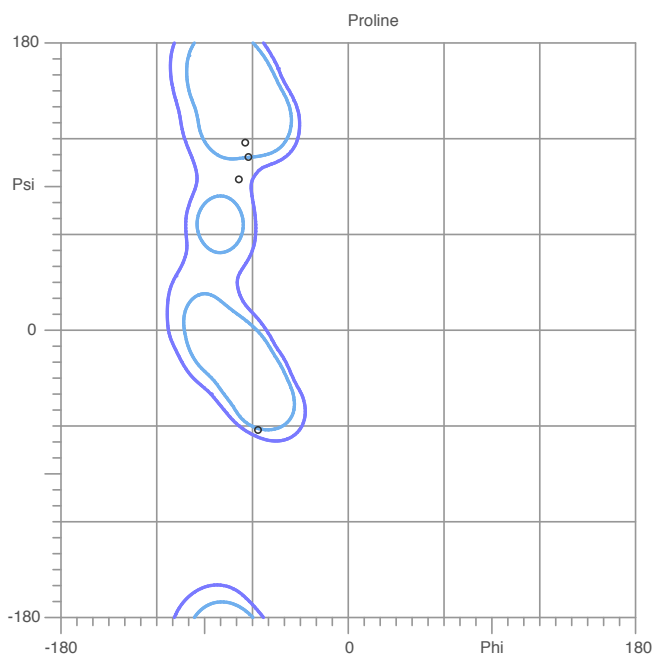
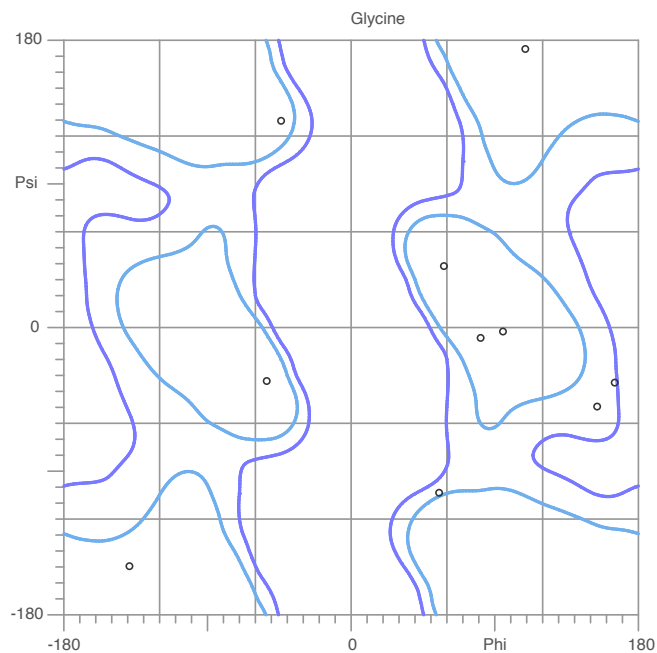
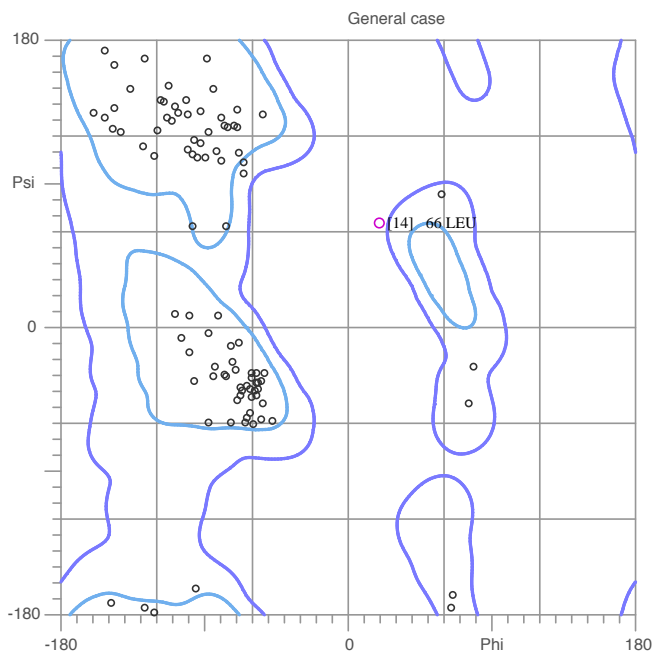
84.2% (96/114) of all residues were in favored (98%) regions.  
95.6% (109/114) of all residues were in allowed (>99.8%) regions.

There were 5 outliers (phi, psi):

[13] 23 GLU (92.5, 156.1)  
[13] 52 GLY (-178.6, -96.8)  
[13] 79 ALA (69.7, 143.9)  
[13] 103 ALA (56.6, -83.0)  
[13] 115 LEU (61.1, 102.5)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 14

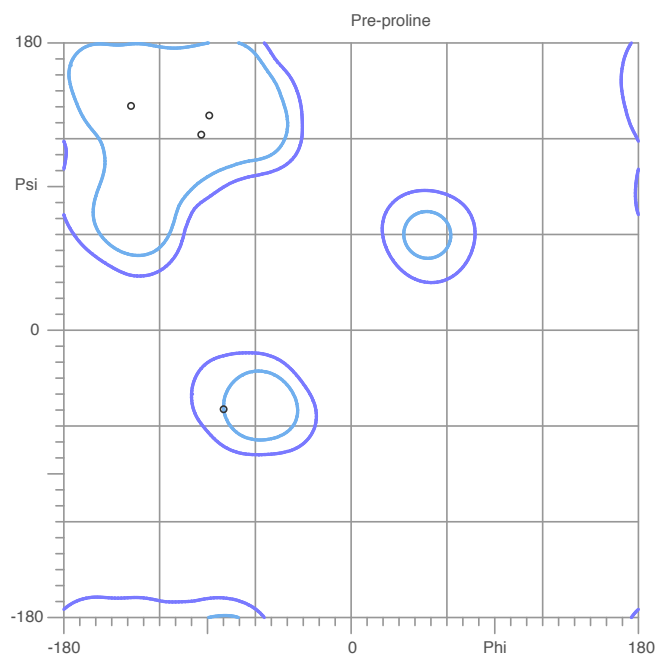
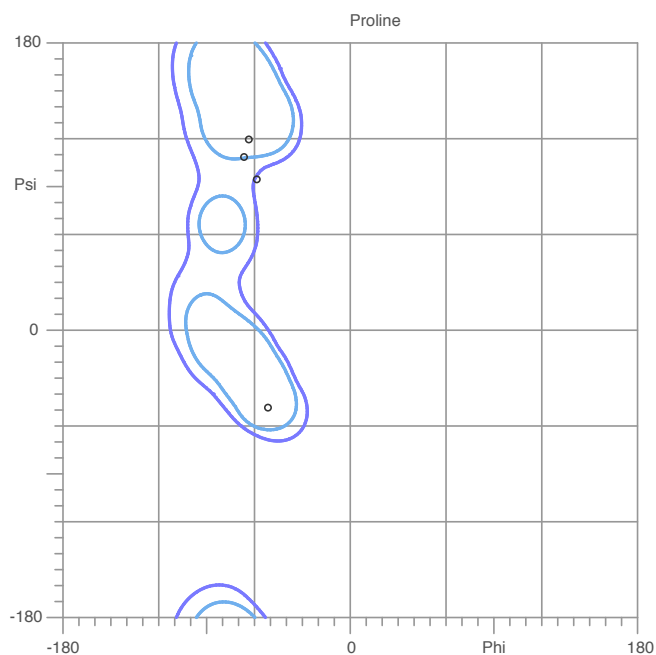
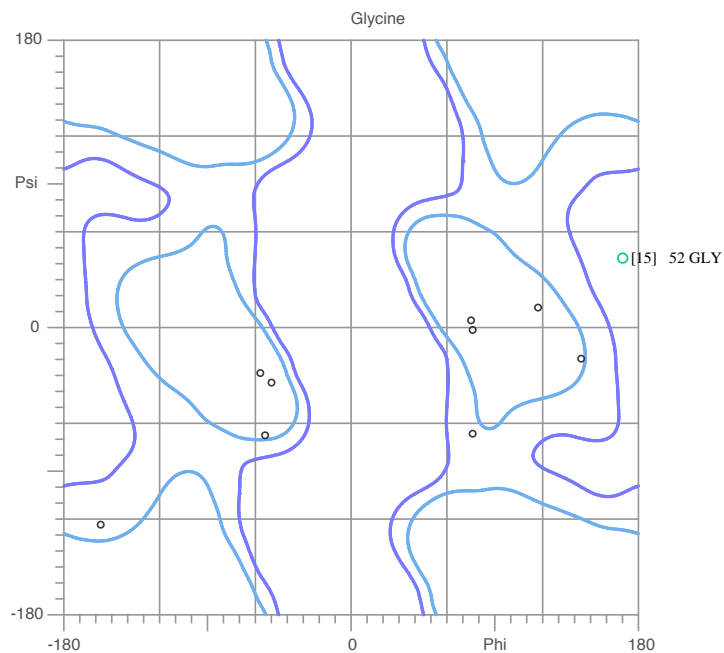
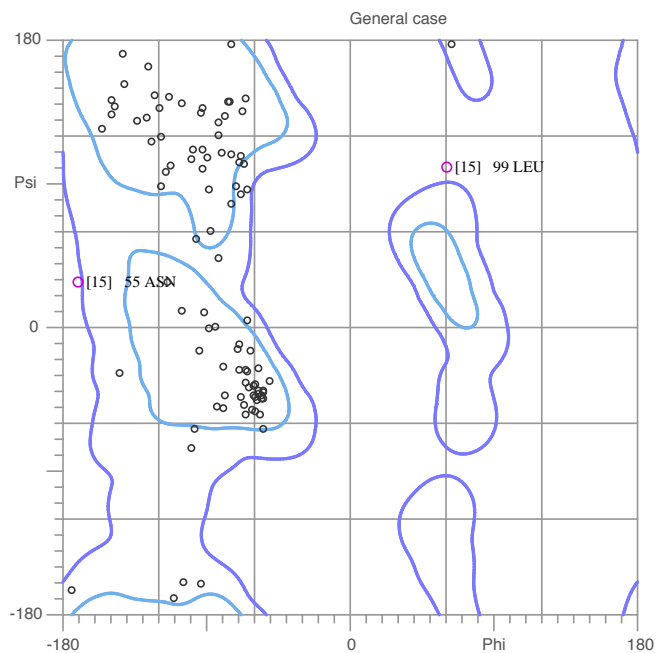


86.0% (98/114) of all residues were in favored (98%) regions.  
98.2% (112/114) of all residues were in allowed (>99.8%) regions.

There were 2 outliers (phi, psi):  
[14] 64 GLU (63.4, 161.9)  
[14] 66 LEU (19.0, 66.0)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 15



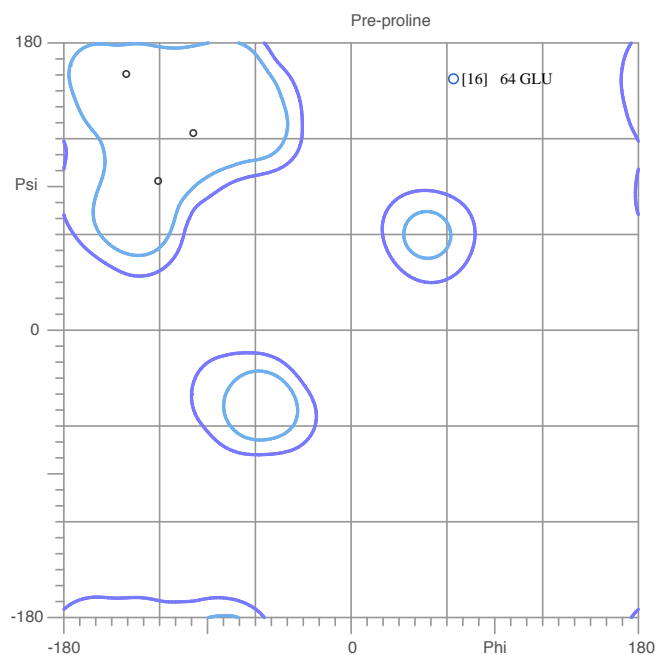
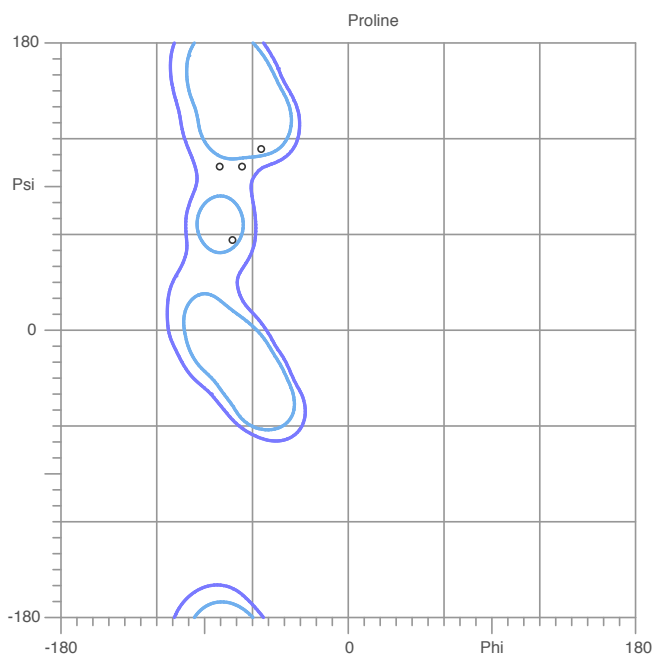
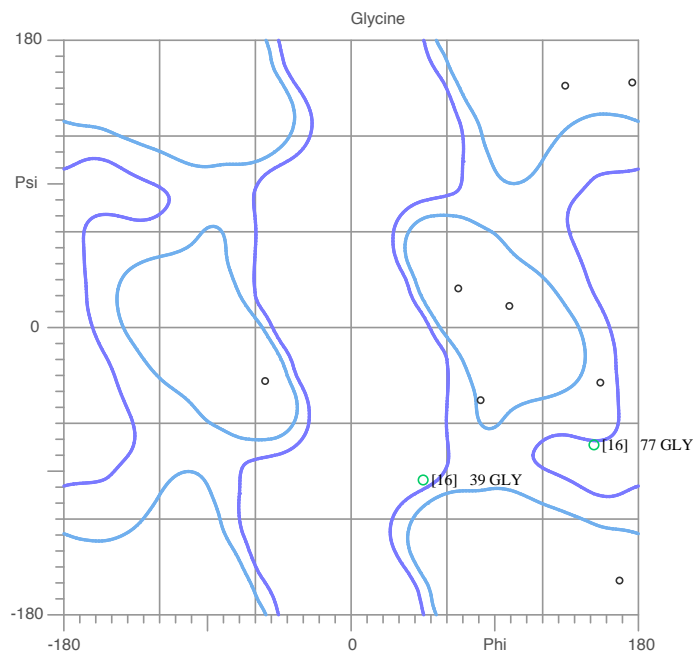
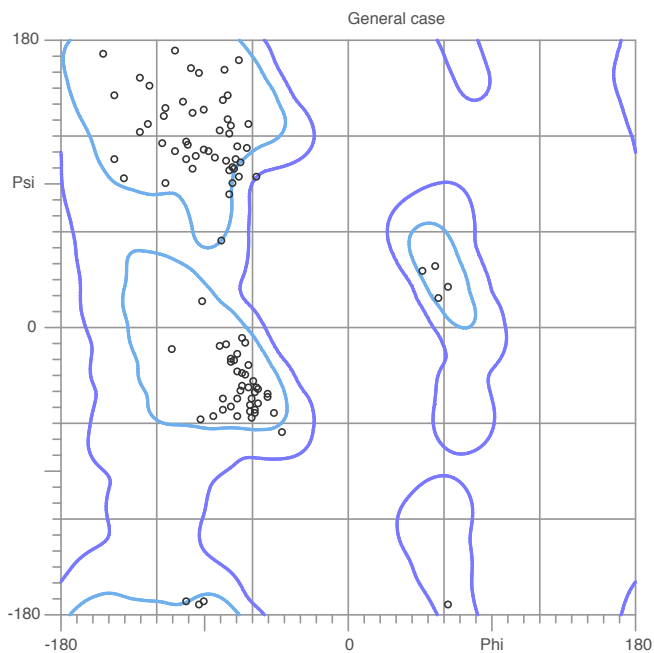
81.6% (93/114) of all residues were in favored (98%) regions.  
97.4% (111/114) of all residues were in allowed (>99.8%) regions.

There were 3 outliers (phi, psi):

- [15] 52 GLY (170.8, 45.0)
- [15] 55 ASN (-171.8, 29.9)
- [15] 99 LEU (60.1, 101.6)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 16



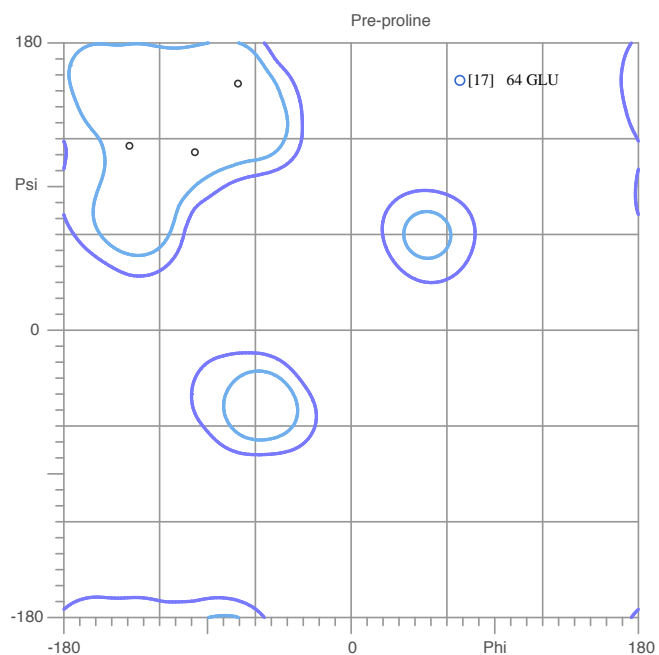
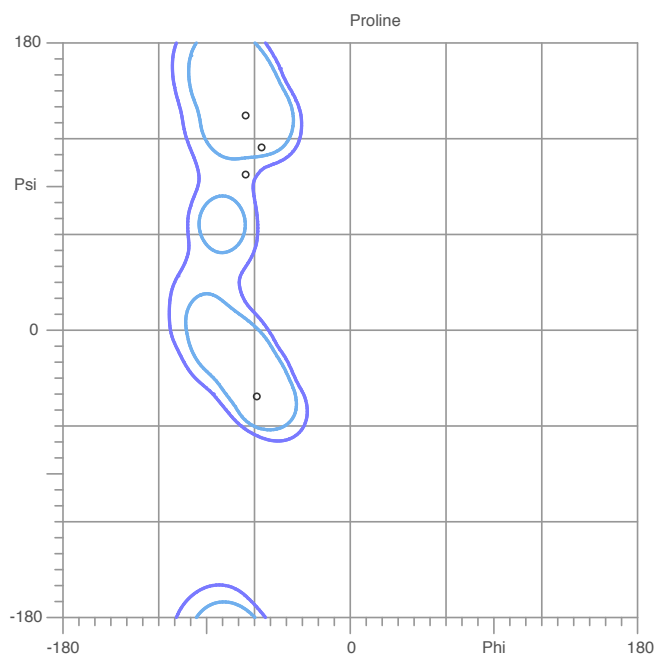
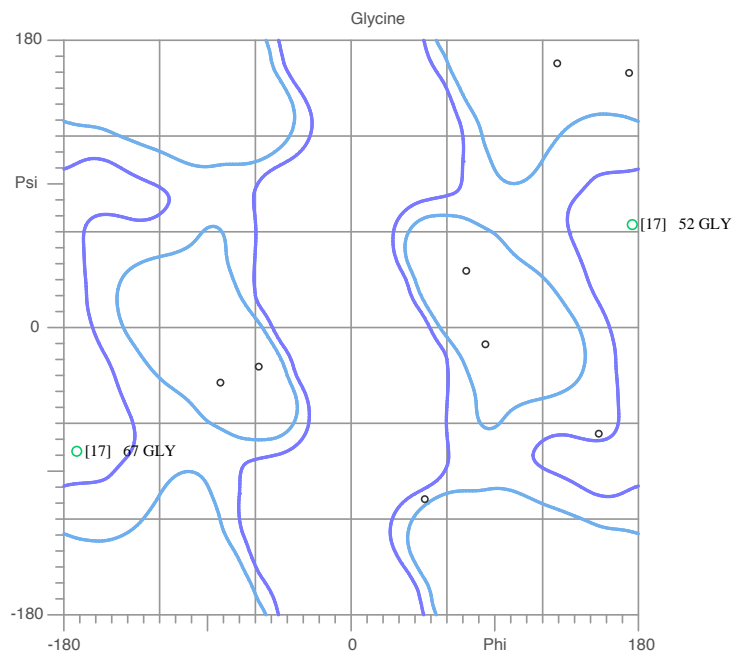
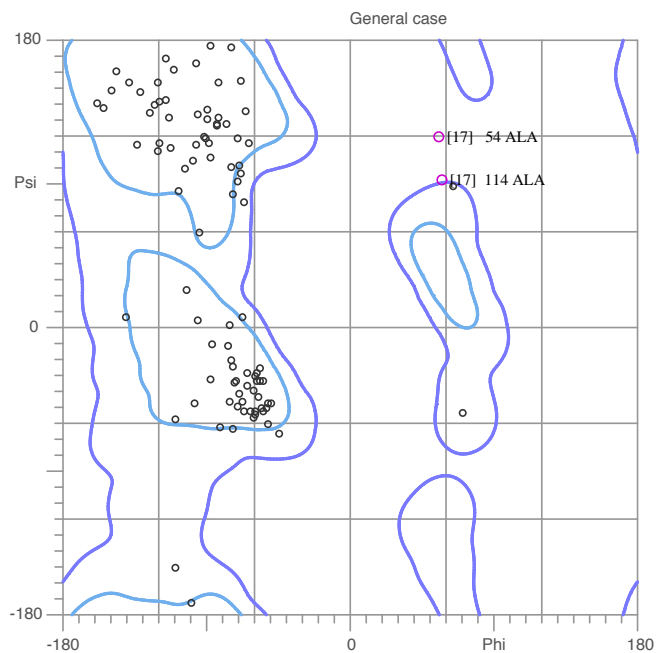
90.4% (103/114) of all residues were in favored (98%) regions.  
97.4% (111/114) of all residues were in allowed (>99.8%) regions.

There were 3 outliers (phi, psi):

- [16] 39 GLY (45.9, -96.0)
- [16] 64 GLU (64.7, 158.3)
- [16] 77 GLY (152.9, -73.2)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 17



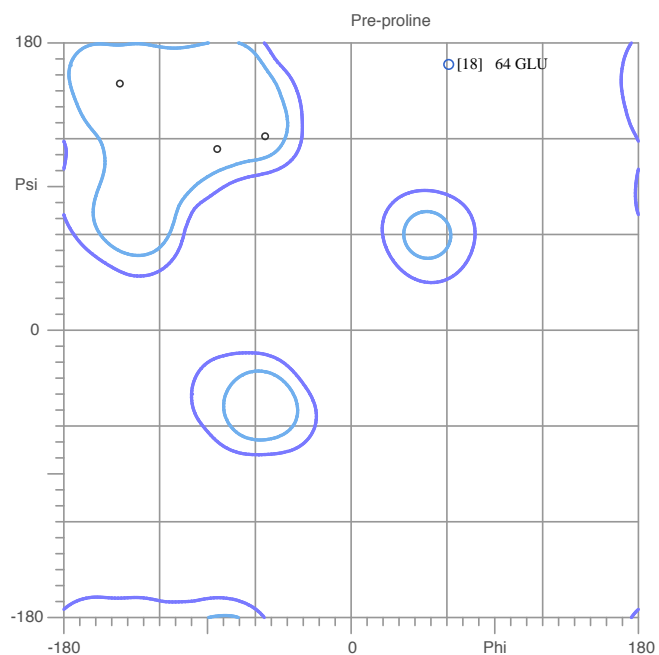
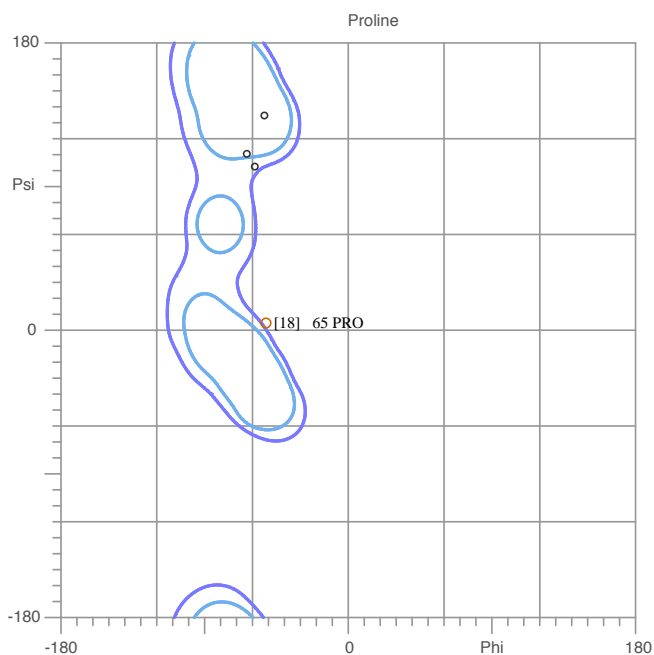
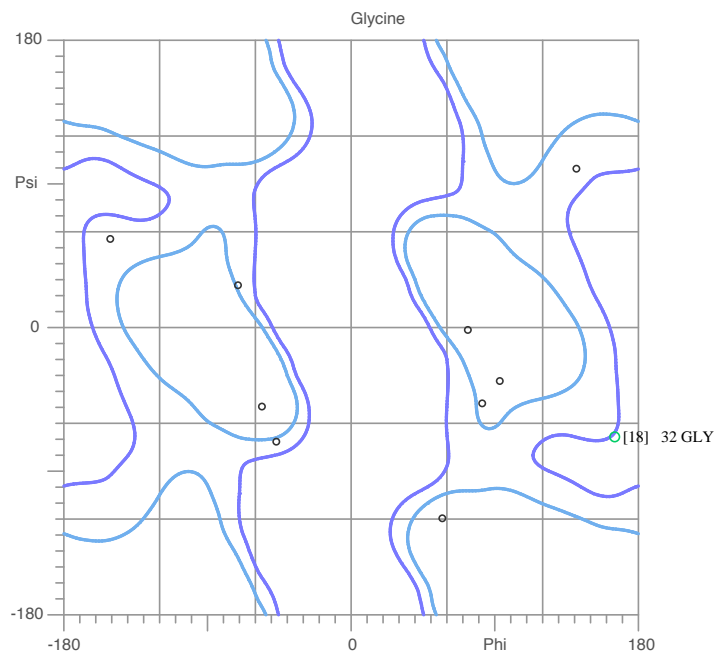
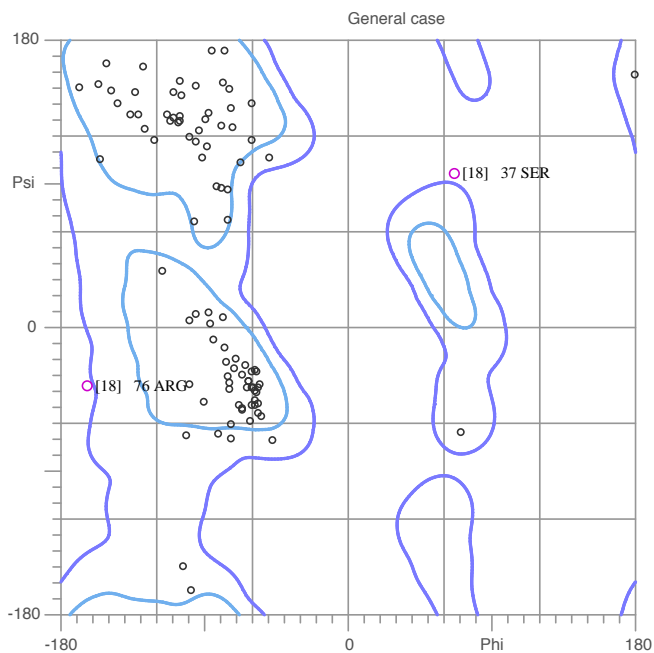
84.2% (96/114) of all residues were in favored (98%) regions.  
95.6% (109/114) of all residues were in allowed (>99.8%) regions.

There were 5 outliers (phi, psi):

[17] 52 GLY (176.9, 65.9)  
[17] 54 ALA (55.5, 120.8)  
[17] 64 GLU (68.7, 157.4)  
[17] 67 GLY (-172.2, -77.6)  
[17] 114 ALA (57.6, 93.5)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 18



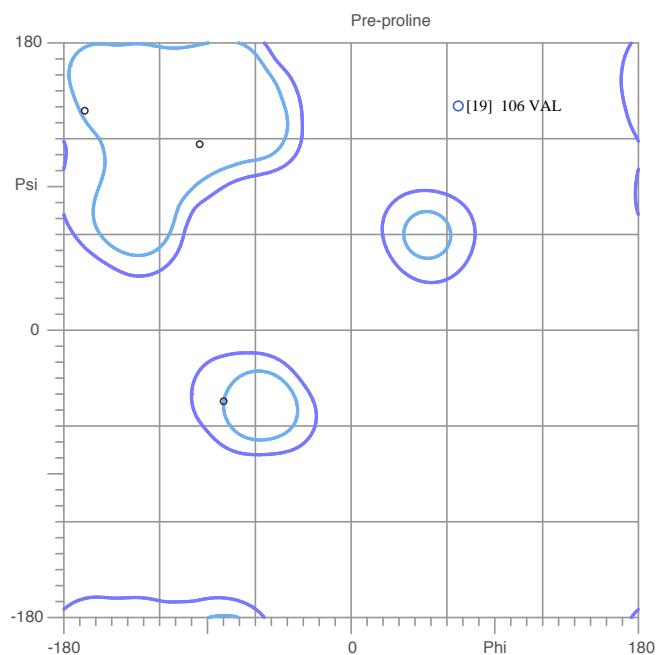
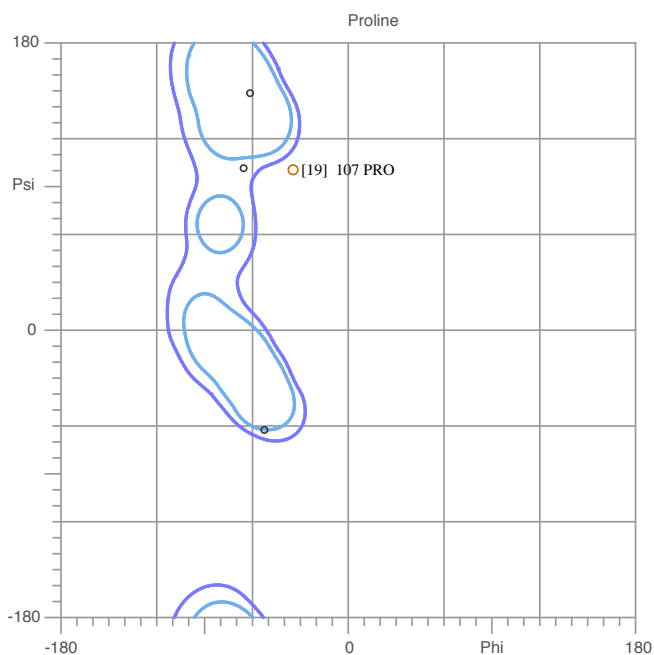
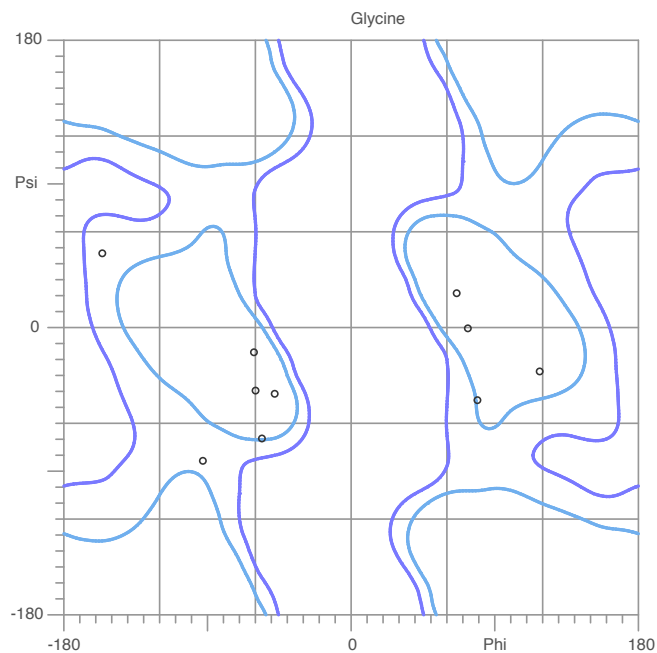
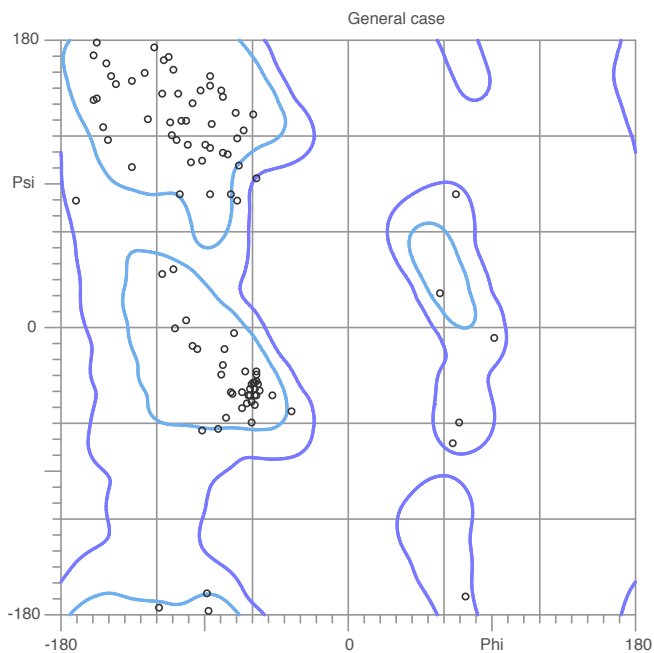
83.3% (95/114) of all residues were in favored (98%) regions.  
95.6% (109/114) of all residues were in allowed (>99.8%) regions.

There were 5 outliers (phi, psi):

[18] 32 GLY (165.1, -68.9)  
[18] 37 SER (66.5, 97.1)  
[18] 64 GLU (61.2, 168.0)  
[18] 65 PRO (-52.2, 6.0)  
[18] 76 ARG (-164.3, -36.4)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 19

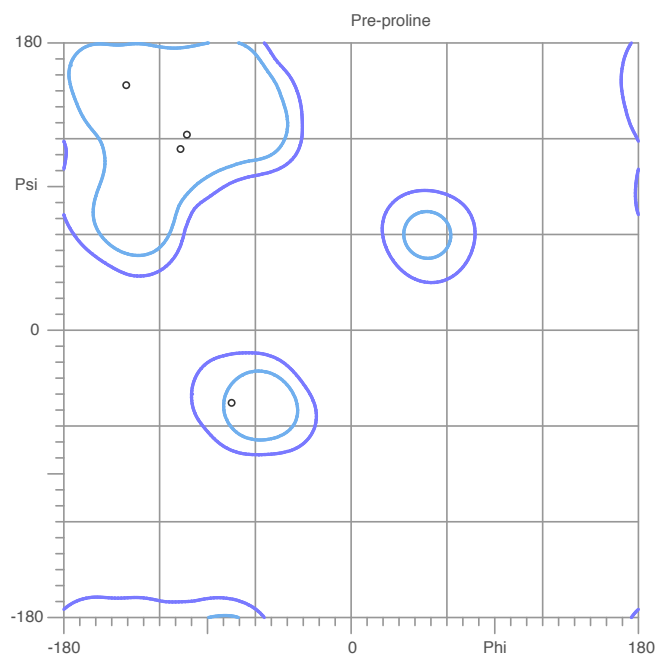
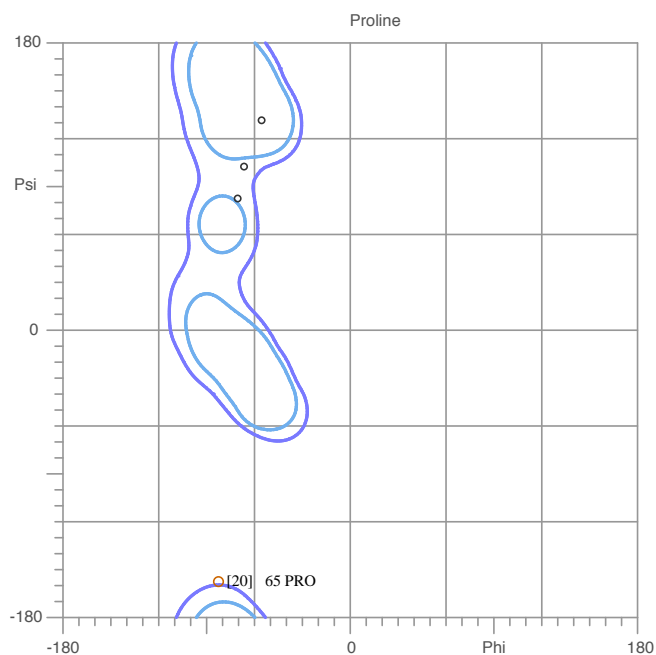
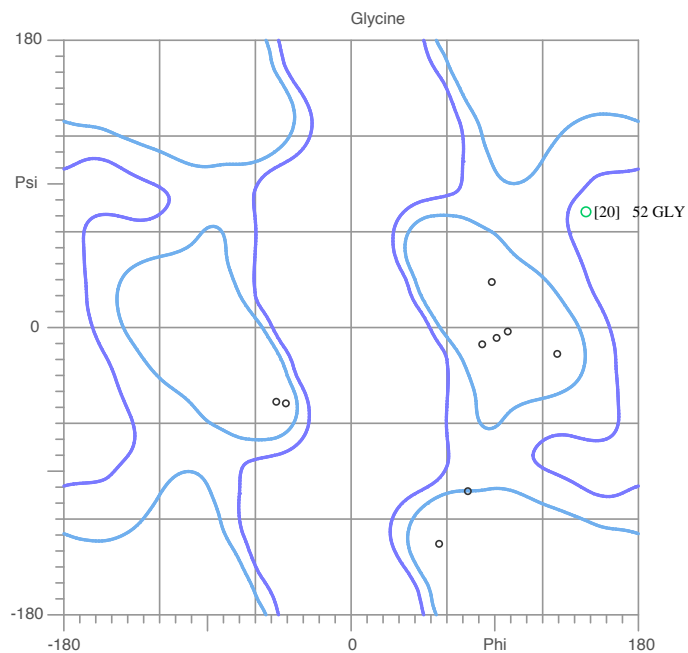
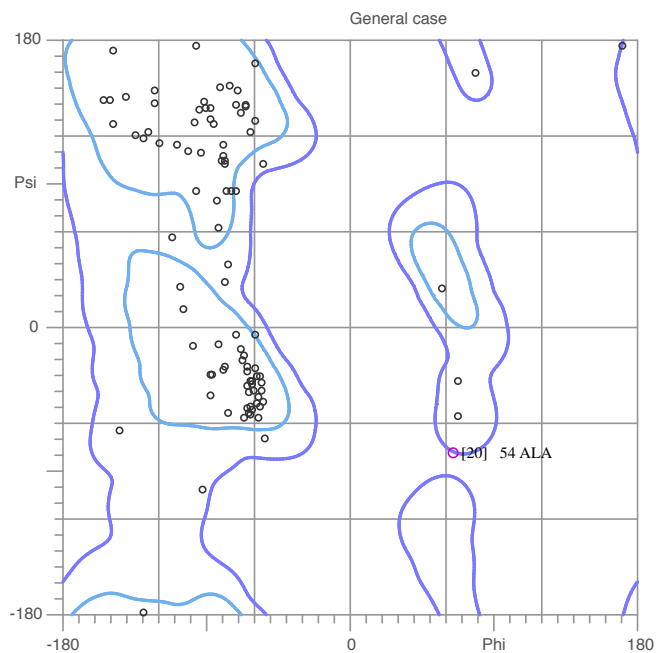


84.2% (96/114) of all residues were in favored (98%) regions.  
98.2% (112/114) of all residues were in allowed (>99.8%) regions.

There were 2 outliers (phi, psi):  
[19] 106 VAL (67.1, 141.1)  
[19] 107 PRO (-35.0, 101.8)

# MolProbity Ramachandran analysis

CCR55\_NMR\_em\_bcr3.pdb, model 20



85.1% (97/114) of all residues were in favored (98%) regions.  
97.4% (111/114) of all residues were in allowed (>99.8%) regions.

There were 3 outliers (phi, psi):

[20] 52 GLY (147.9, 73.6)

[20] 54 ALA (64.5, -78.6)

[20] 65 PRO (-83.8, -157.2)