

Structure Factor Check

3L71

Title: CYTOCHROME BC1 COMPLEX FROM CHICKEN WITH AZOXYSTROBIN BOUND
Date: 27-DEC-09
PDB code: 3L71

Crystal

Cell parameters:

a: 170.15 A b: 181.31 A c: 240.50 A
 α : 90.00 β : 90.00 γ : 90.00

Space group: P 21 21 21

Model

32655 atoms (19 water molecules)

Number of chains: 51

Volume not occupied by model: 62.0 %

 (for atomic model): 73.6 A²

σ (B): 18.83 A²

Matthews coefficient: 4.06

Corresponding solvent % : 69.45

Refinement

Program: CNS 1.1

Nominal resolution range: 24.9 – 2.84 A

Reported R-factor: 0.247

Number of reflections used: 165215

Reported Rfree: 0.28

Sigma cut-off: N.A.

Structure Factors

Input

Nominal resolution range: 144.8 – 2.80 A

Reflections in file: 170949

Unique reflections above 0: 170949

above 1 σ : 167603

above 3 σ : 112140

SF CHECK

Nominal resolution range: 144.8 – 2.84 A

\05max. from input data, min. from author\05

Used reflections: 165523

Reflections out of resolution: 5426

Completeness: 94.5 %

R_{stand}(F) = $\langle \sigma(F) \rangle / \langle F \rangle$: 0.062

Anisotropic distribution of Structure Factors

ratio of eigen values: 1.0000 0.4725 0.4425

B_{overall} (by Patterson): 49.A²

Optical resolution: 2.13 A

Expected opt. resol. for complete data set: 2.13 A

Estimated minimal error: 0.067 A

Model vs. Structure Factors

R-factor for all reflections: 0.298

Correlation factor: 0.865

R-factor: 0.302

for $F > 2.0 \sigma$

nom. resolution range: 24.94 – 2.84A

reflections used: 162125

Rfree: 0.331

Nfree: 3168

R-factor without free-refl.: 0.301

Non free-reflections: 158957

<u> (error in coords by Luzzati plot): 0.459 A

Estimated maximal error: 0.353 A

DPI: 0.350 A

Scaling

Scale: 0.476

Bdiff: -9.70

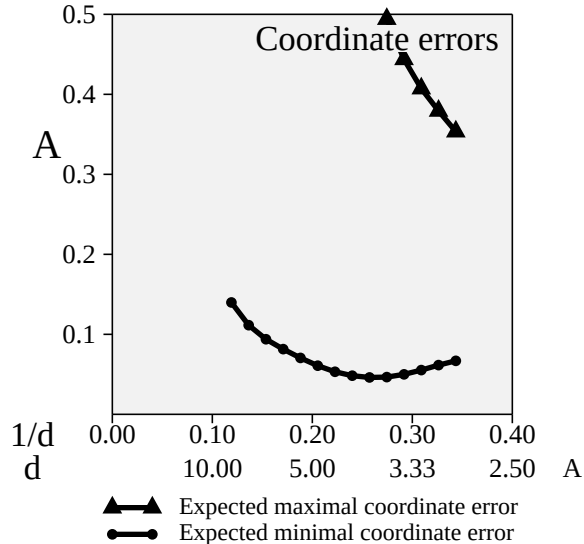
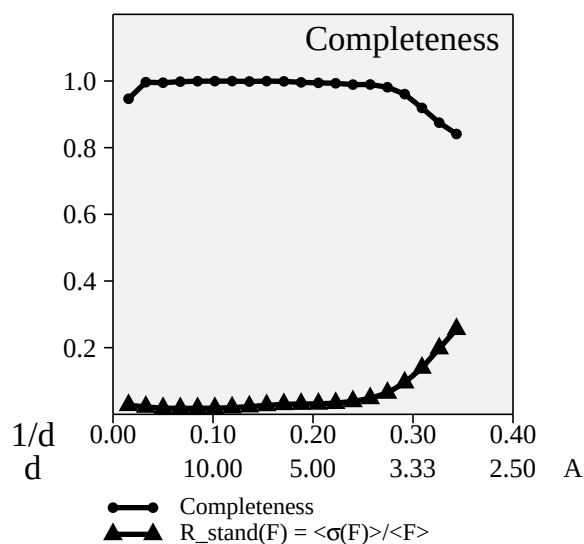
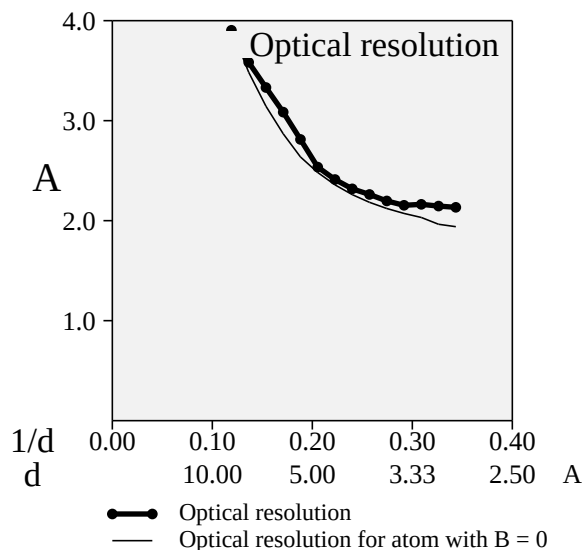
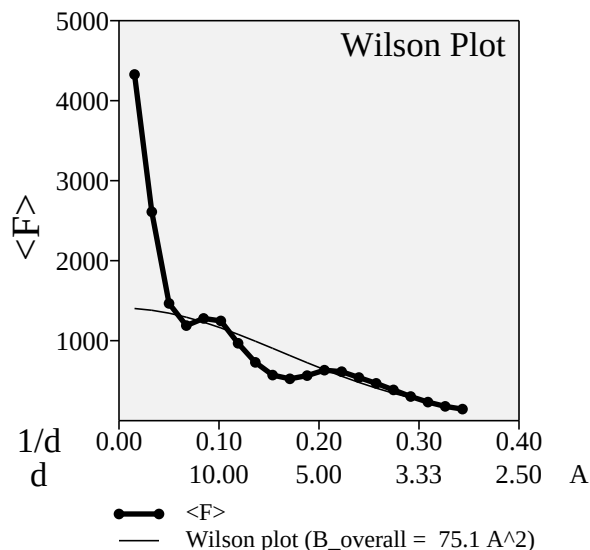
Anisothermal Scaling (Beta):

10.9330 -1.7389 -2.6990 0.0000 0.0000 0.0000

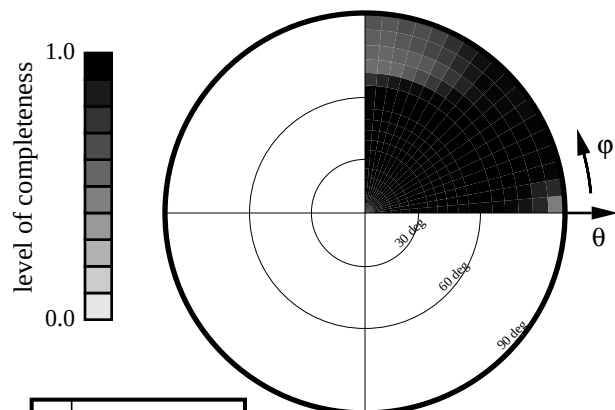
Solvent correction – Ks,Bs: 0.750 250.127

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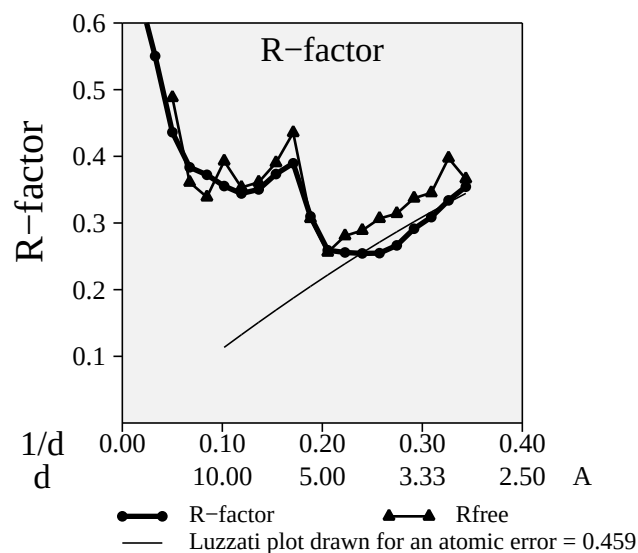


Stereographic projection of the averaged radial completeness



	θ	ϕ
h	90.00	0.00
k	90.00	90.00
l	0.00	0.00

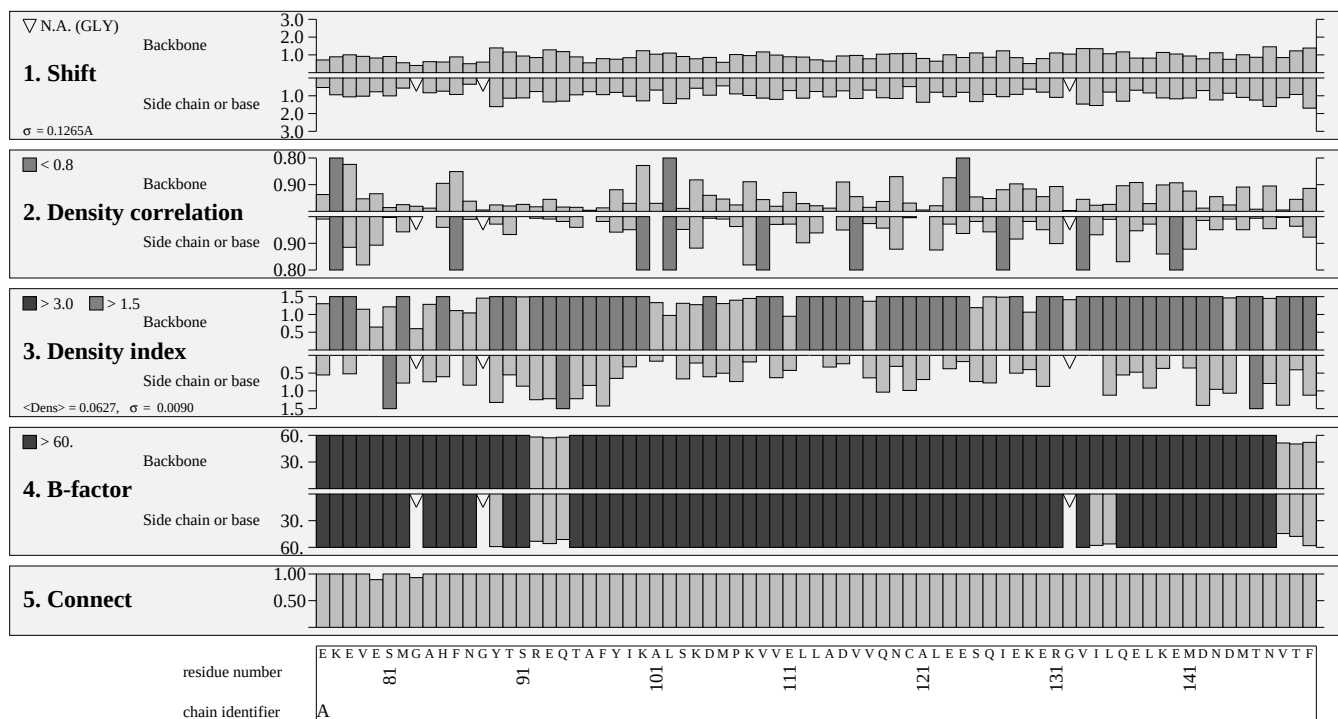
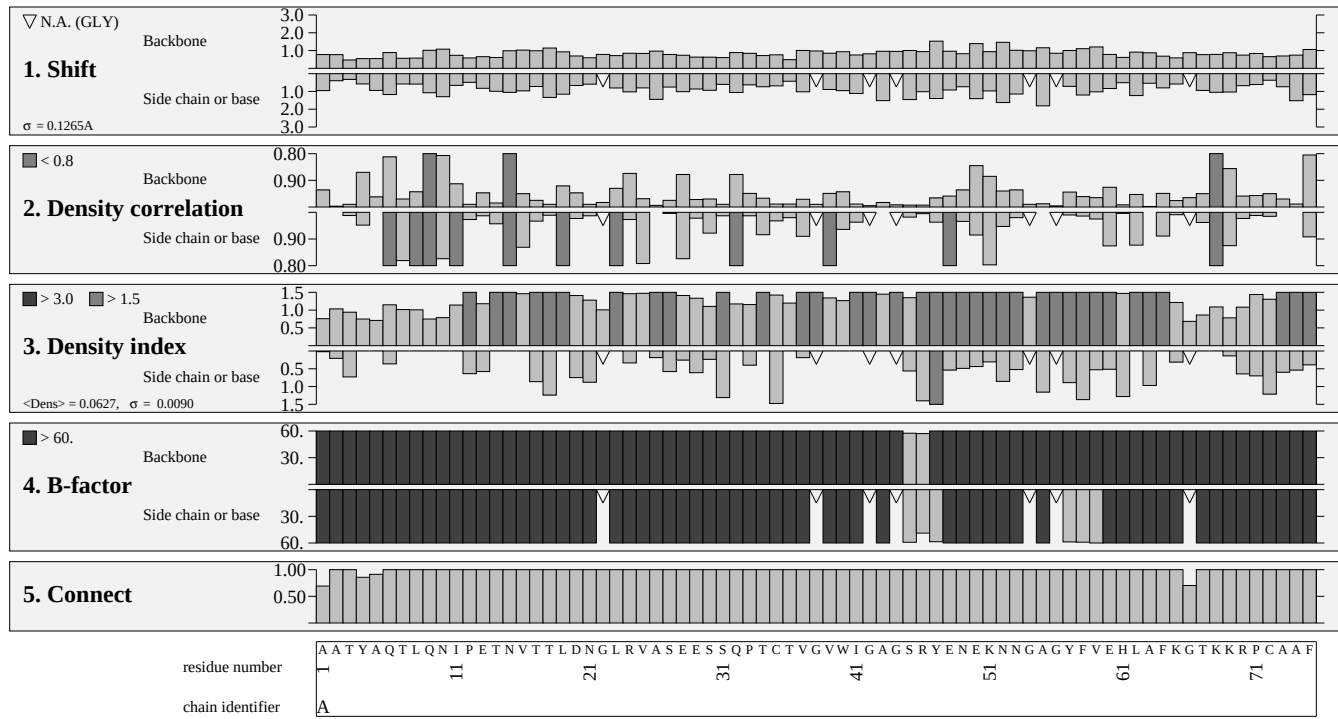
polar coordinates of the crystallographical axes



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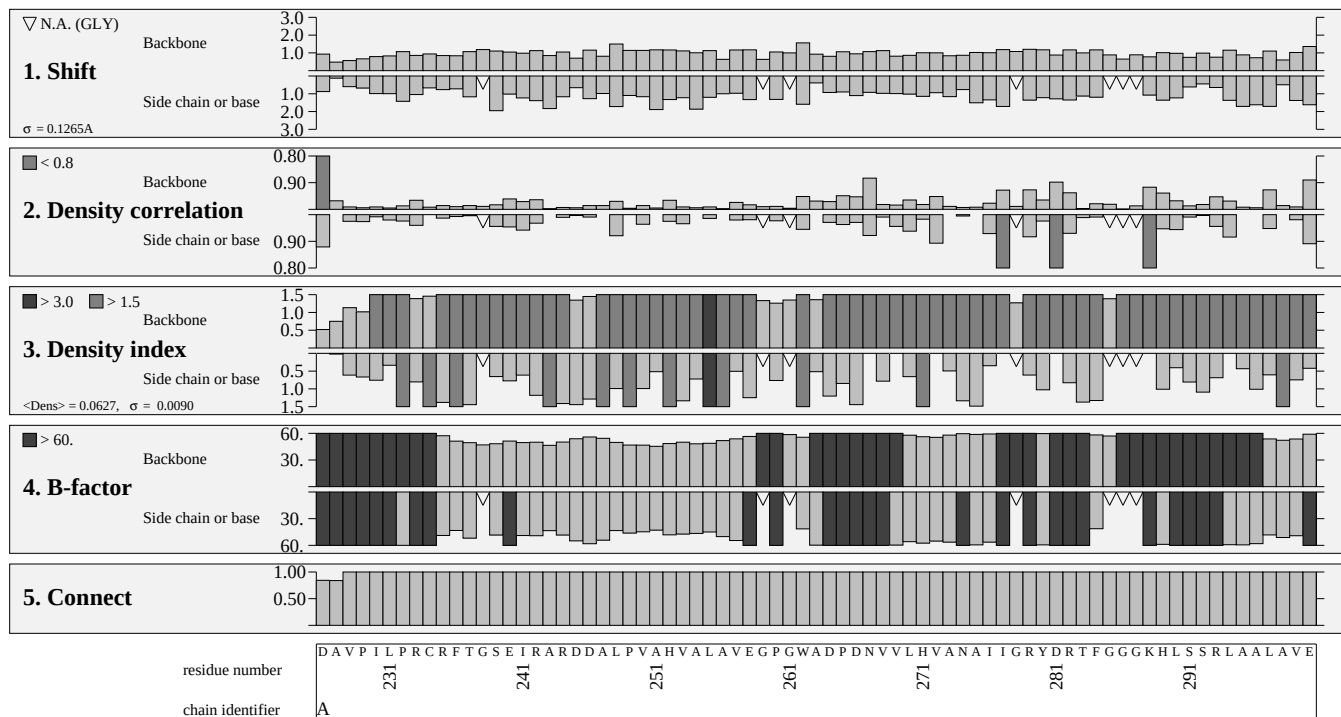
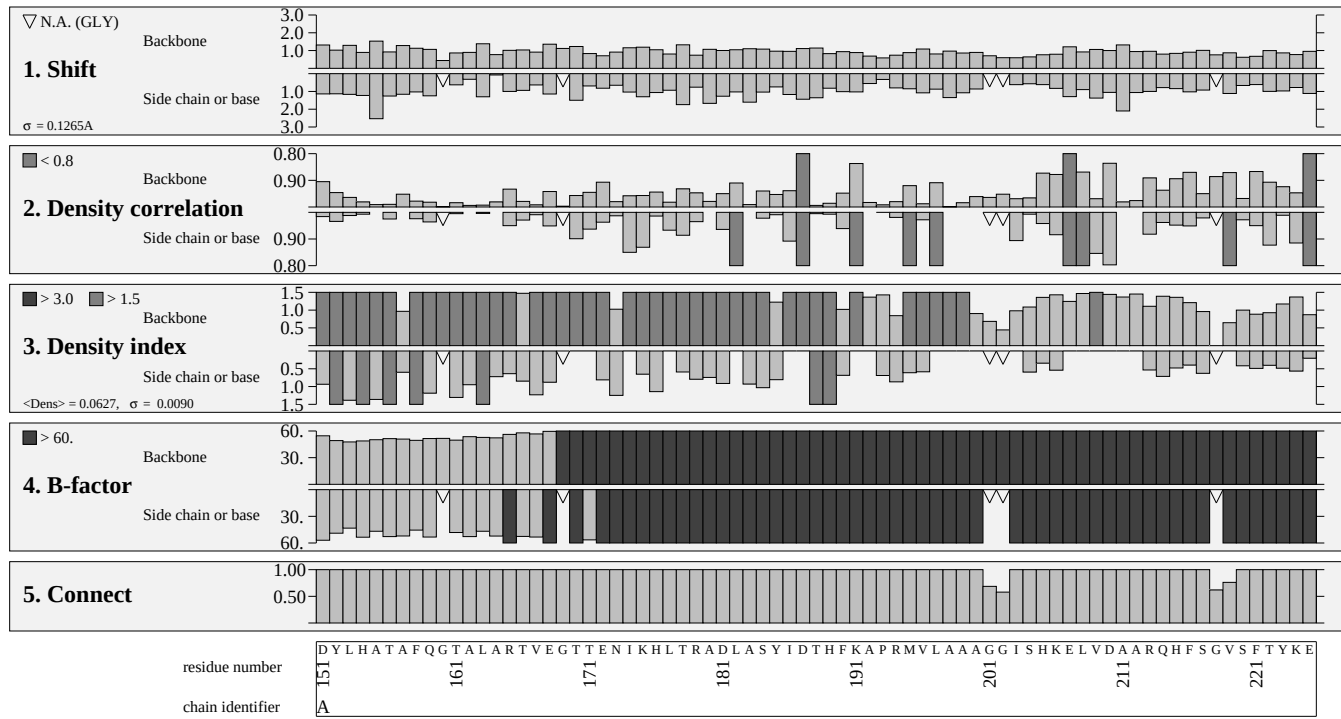
Local estimation



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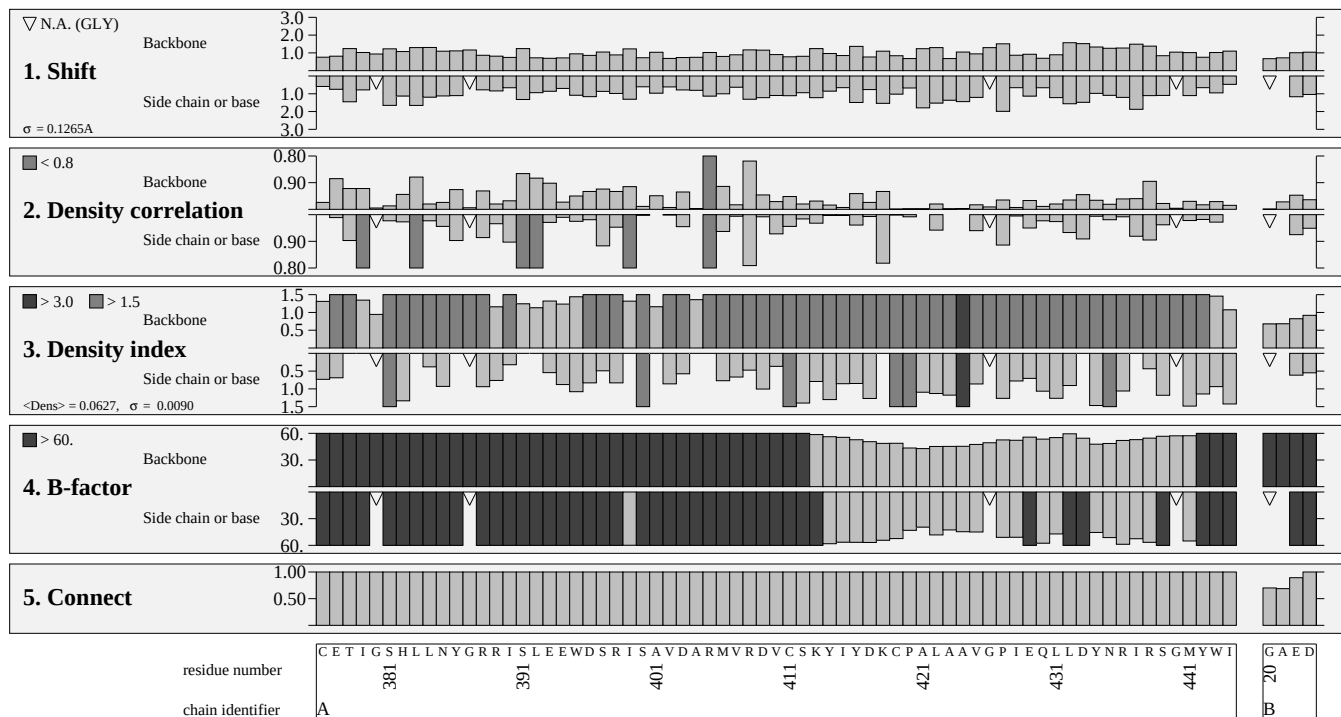
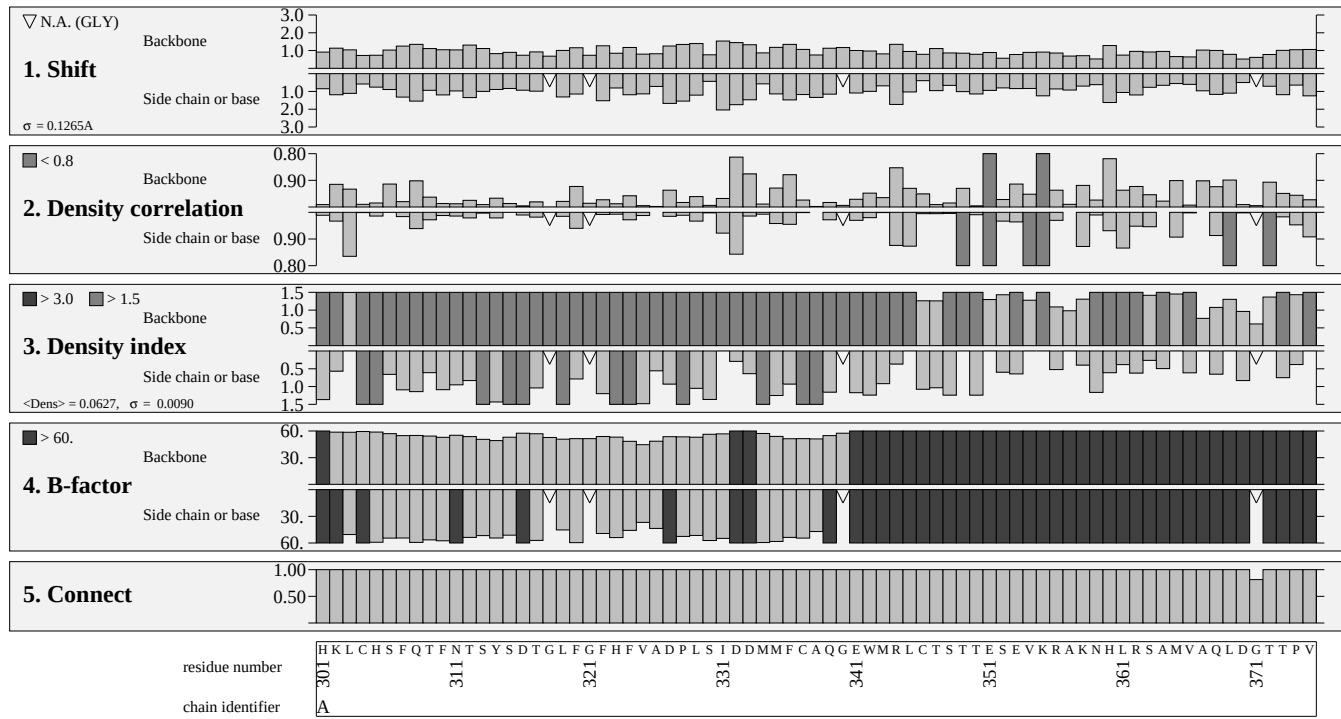
Local estimation (2)



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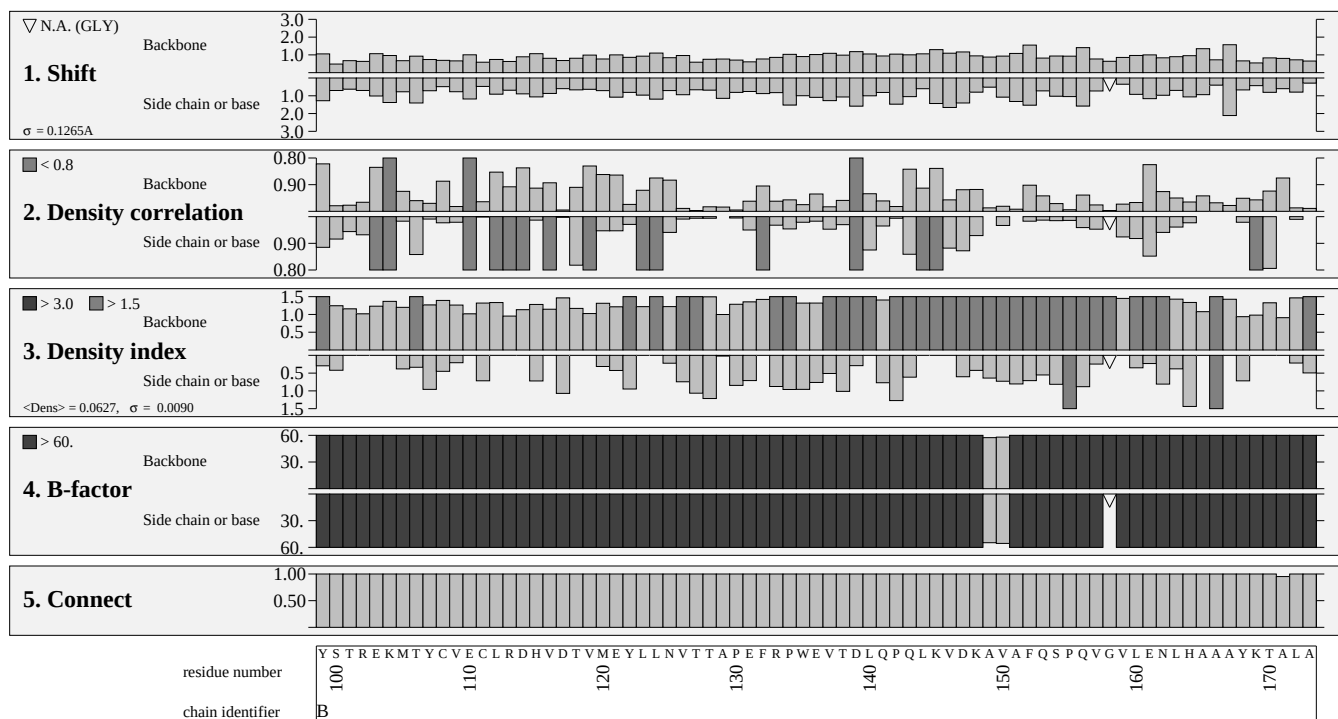
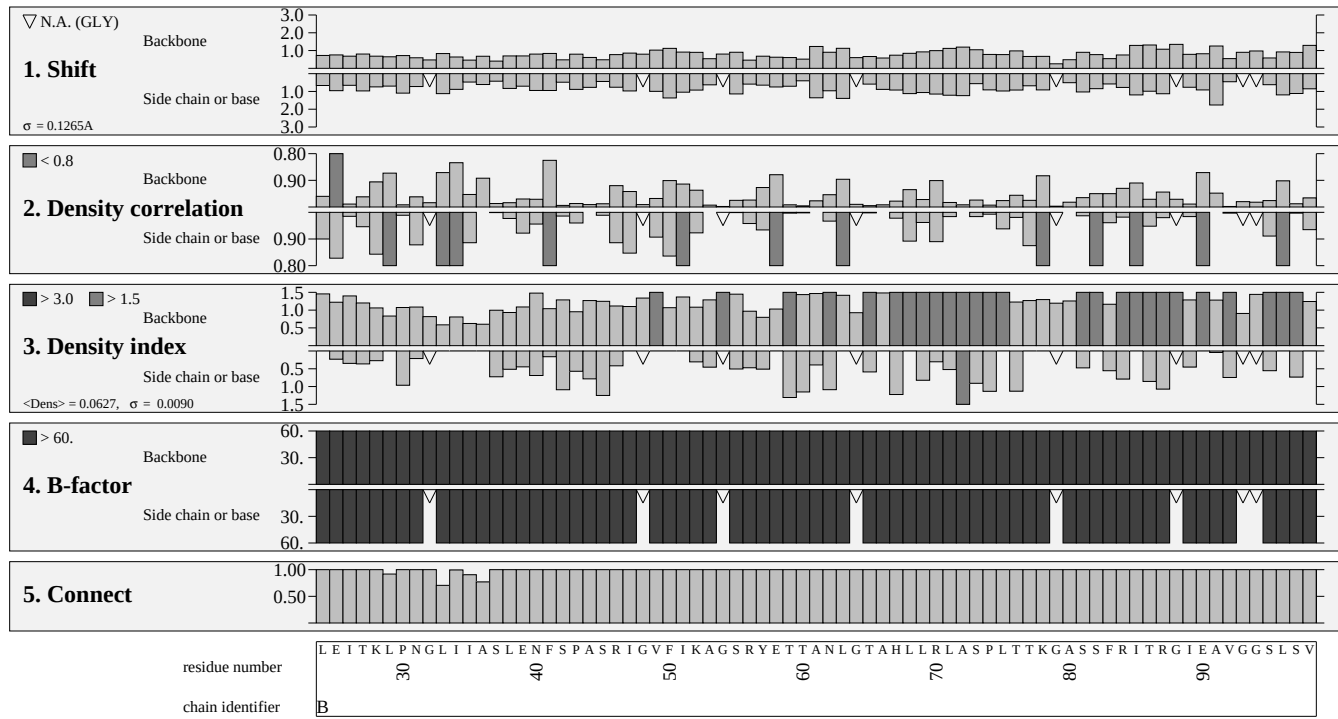
Local estimation (3)



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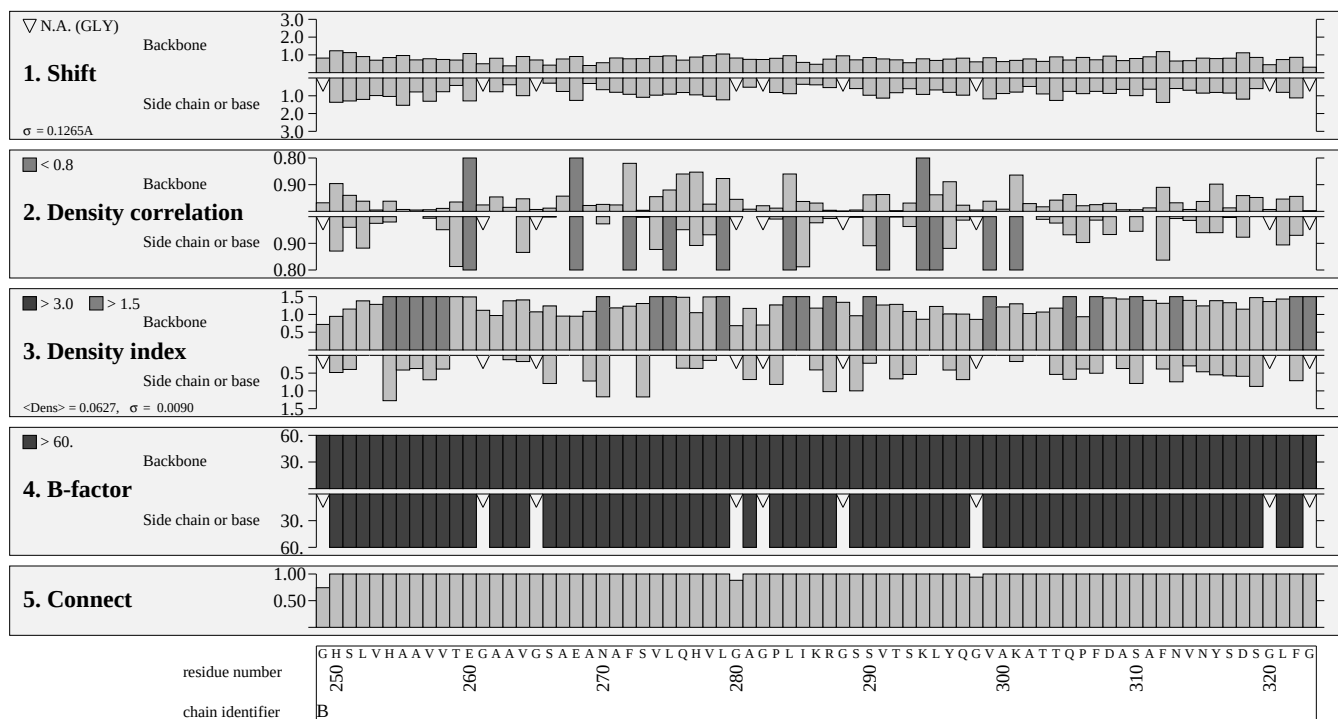
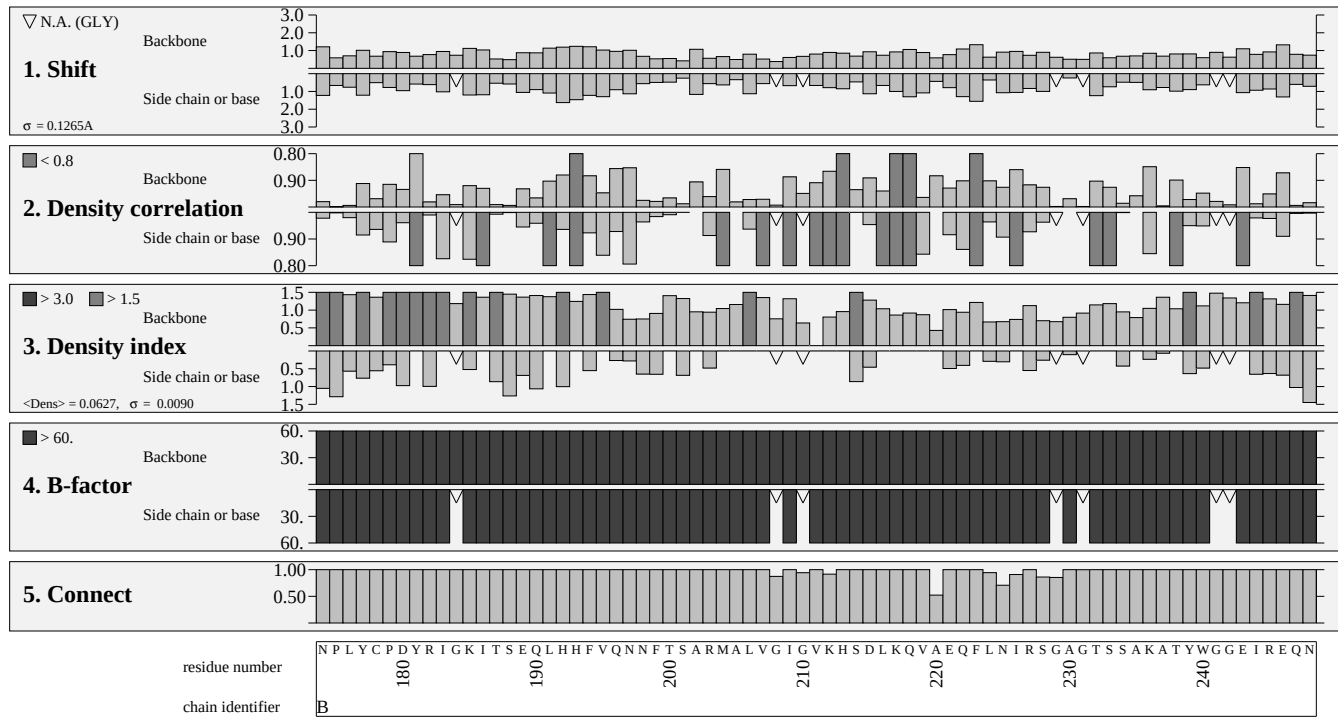
Local estimation (4)



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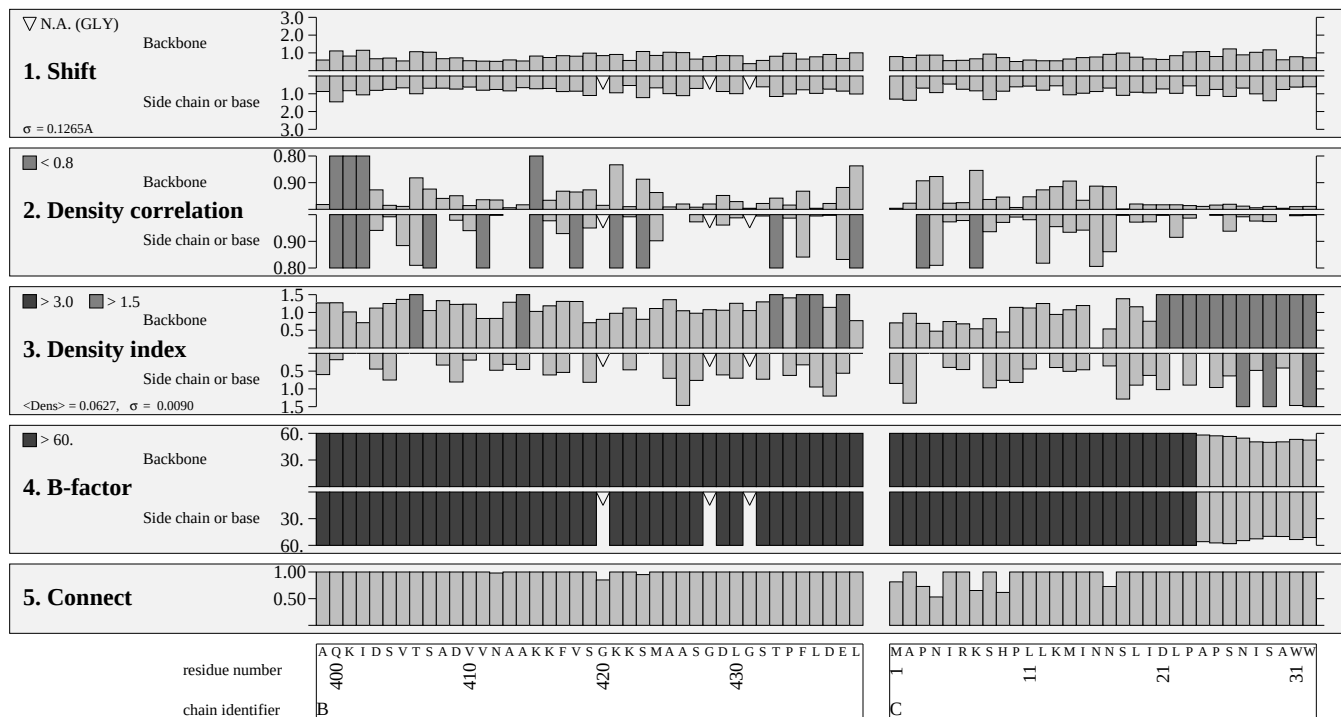
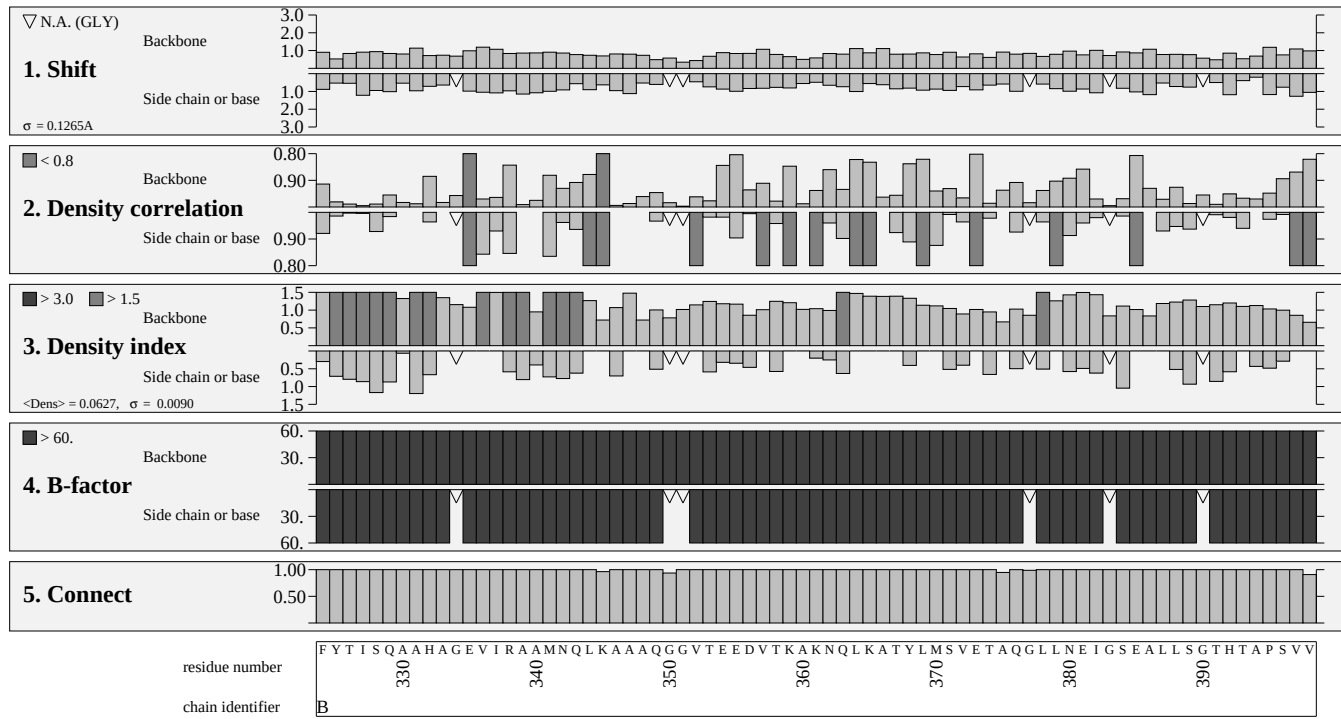
Local estimation (5)



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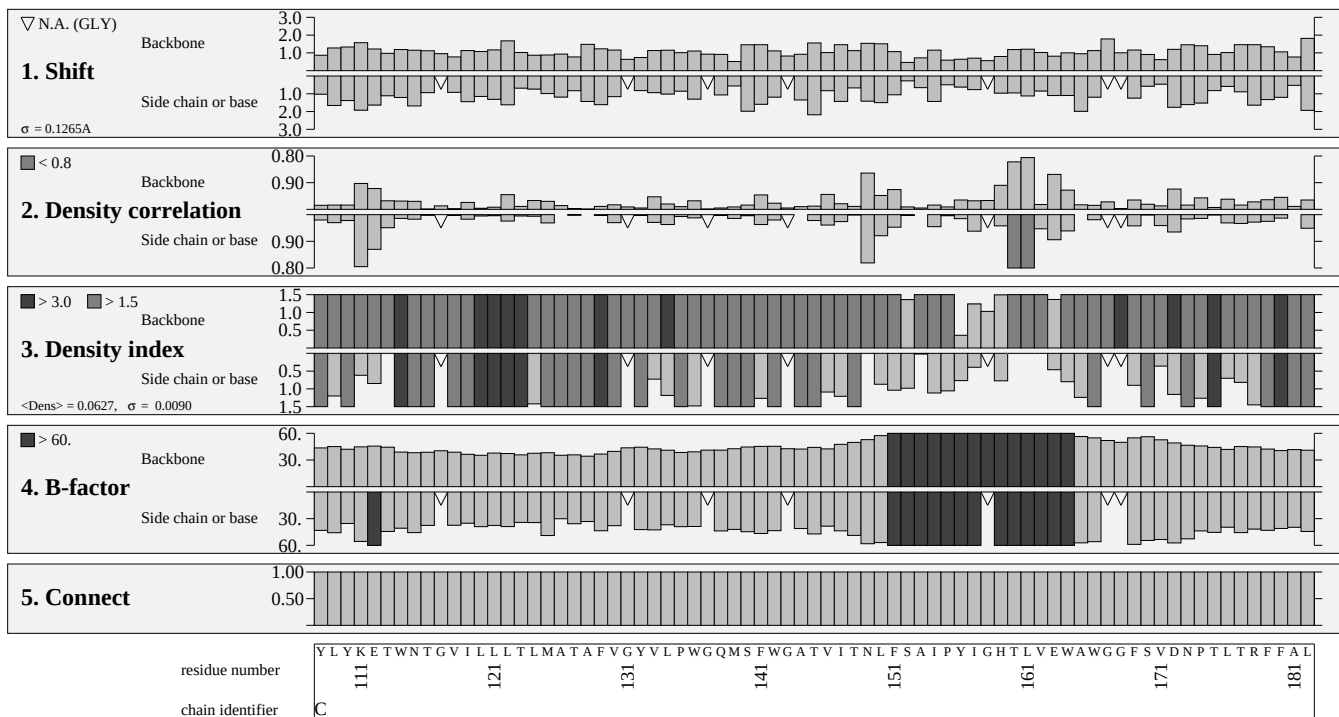
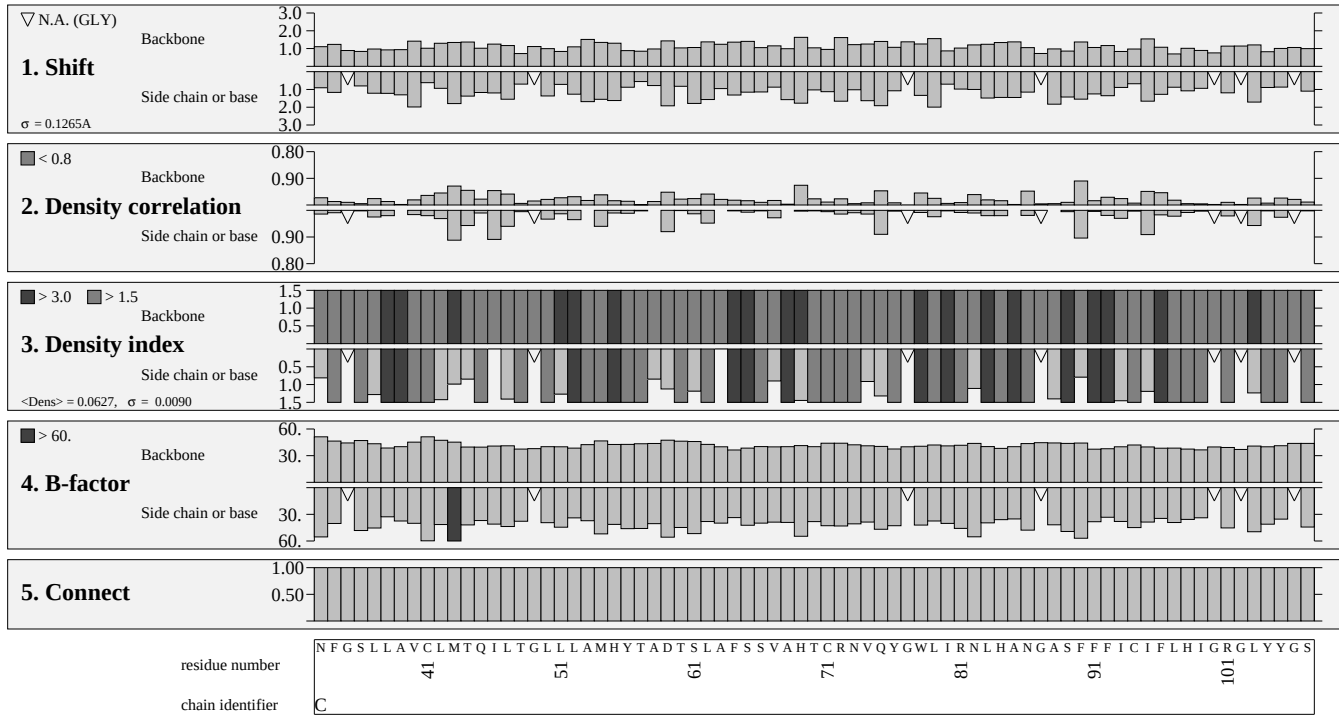
Local estimation (6)



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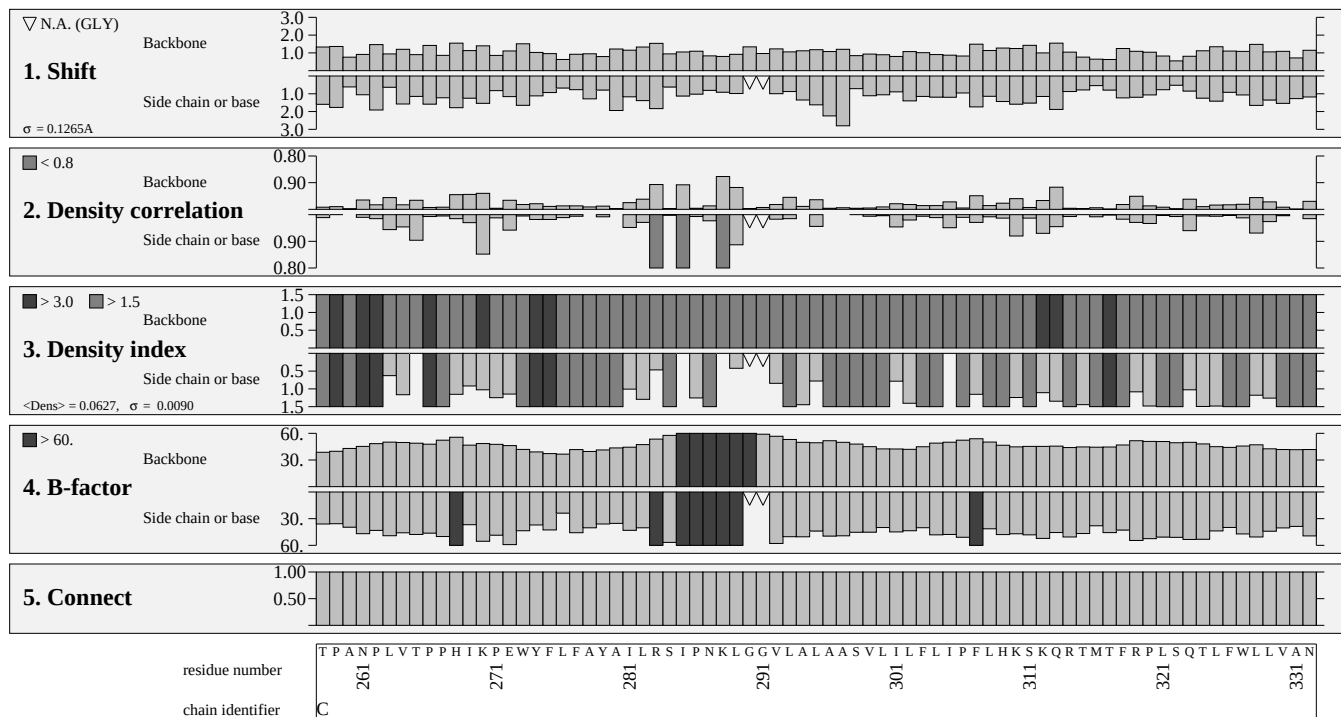
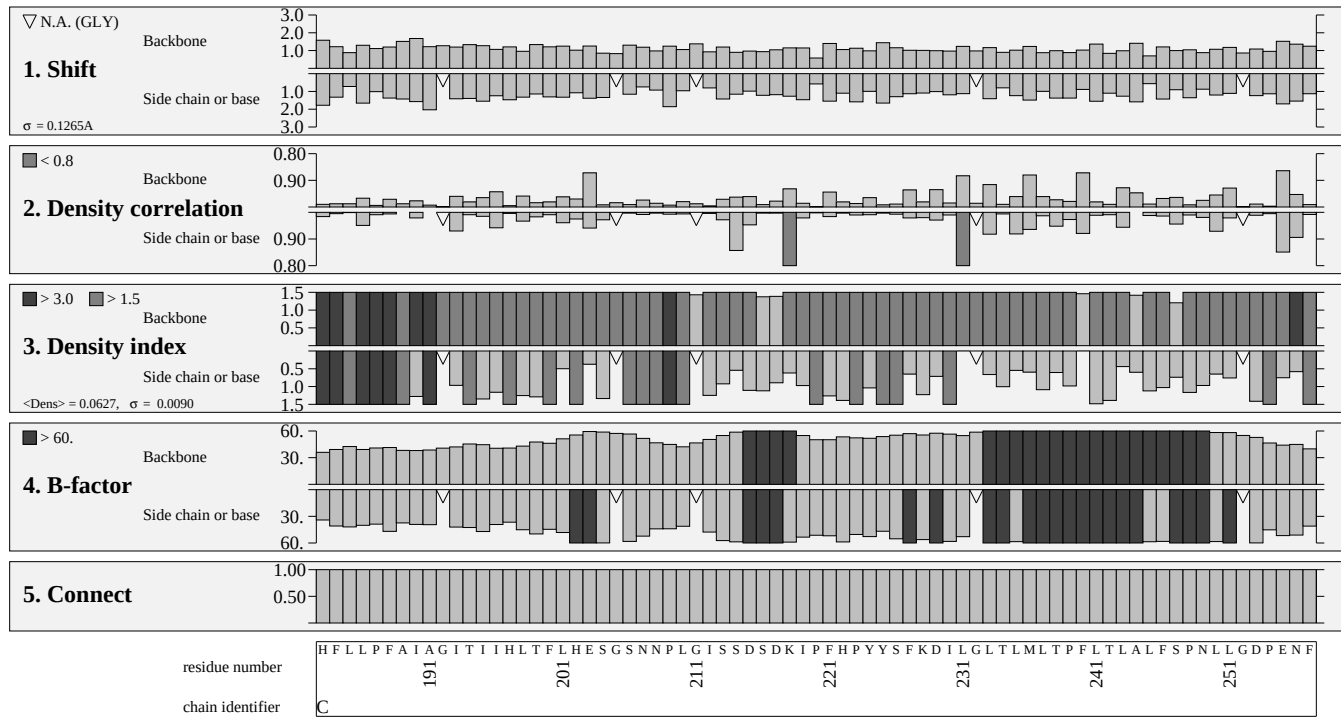
Local estimation (7)



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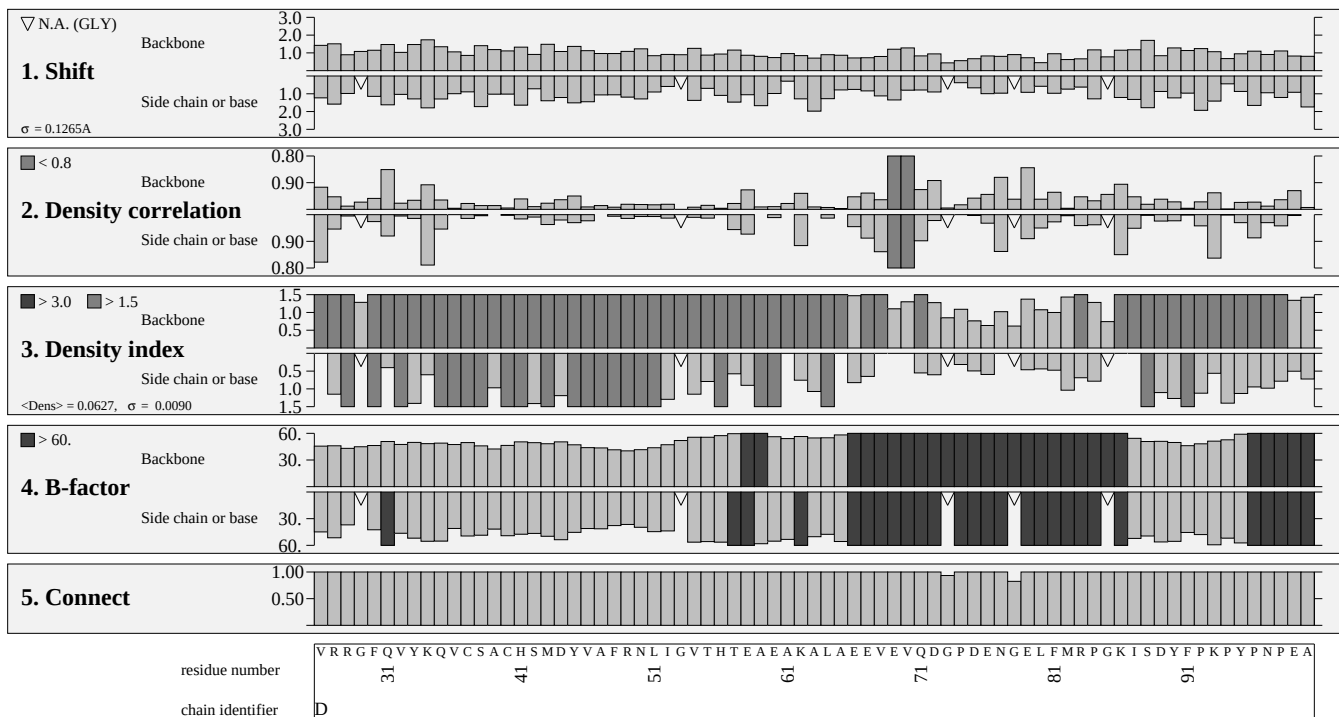
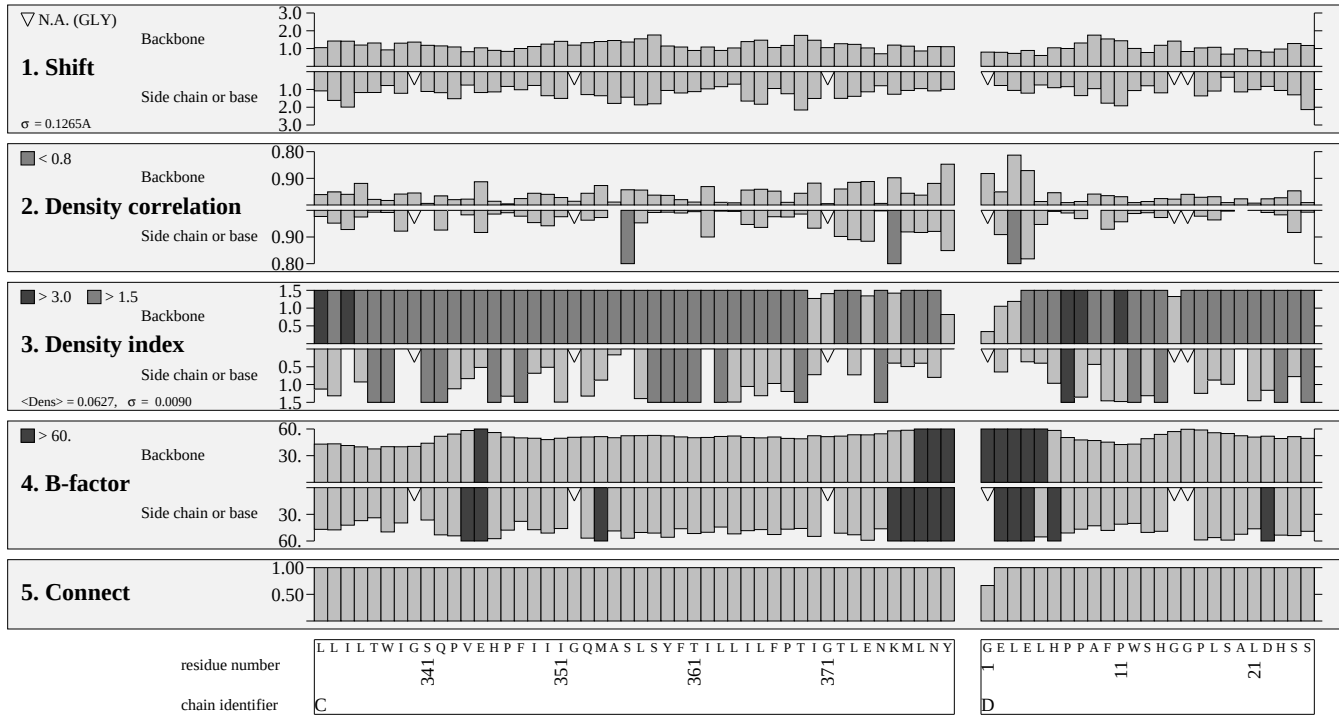
Local estimation (8)



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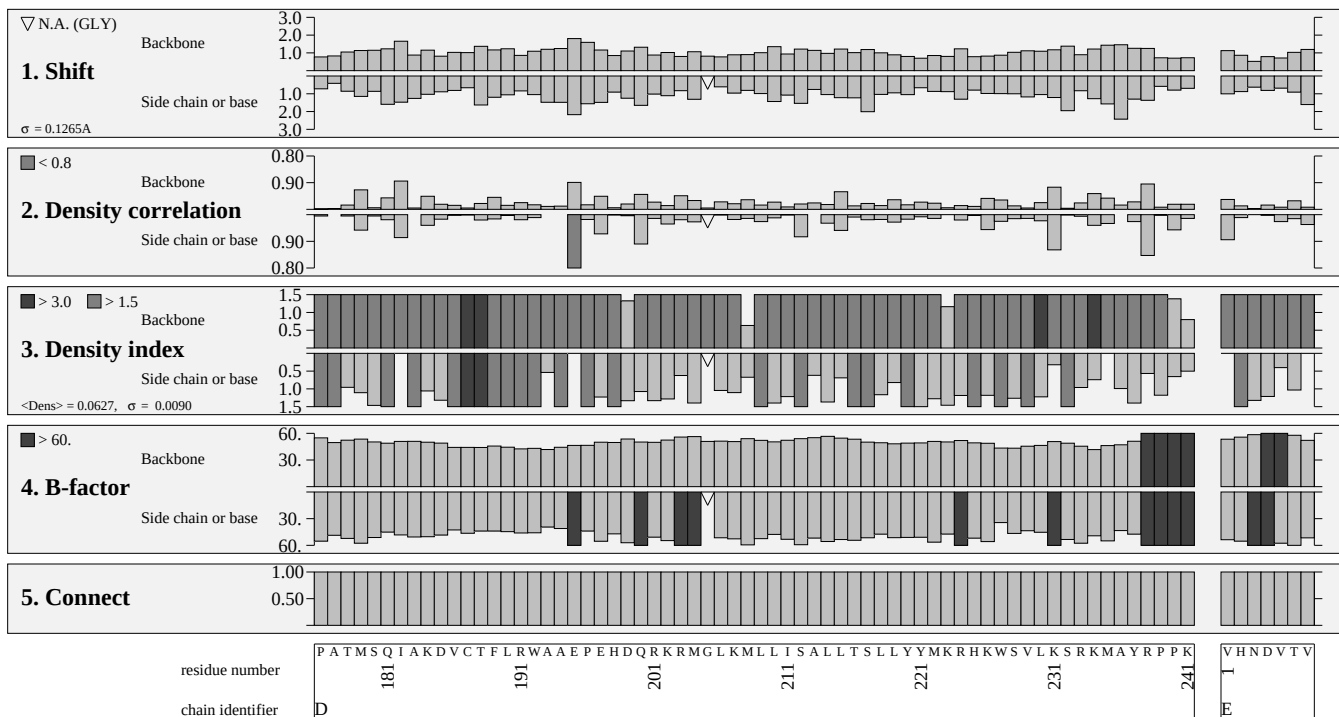
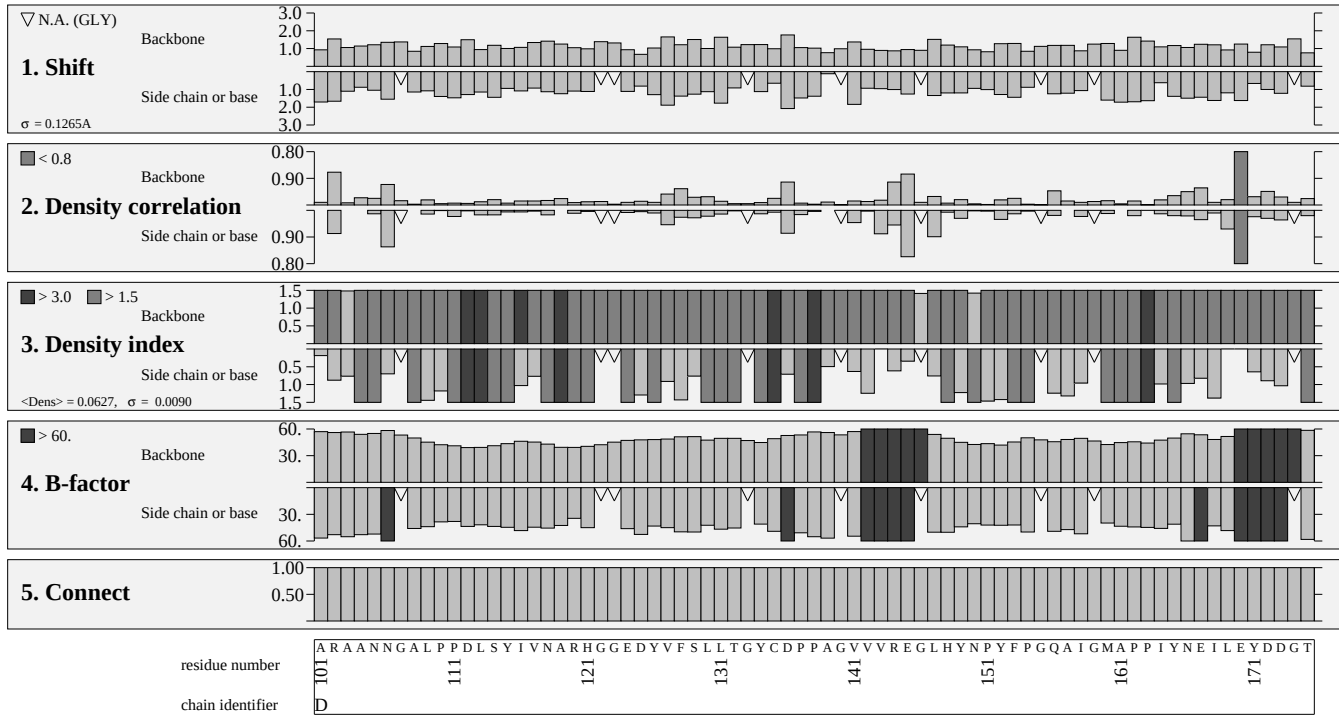
Local estimation (9)



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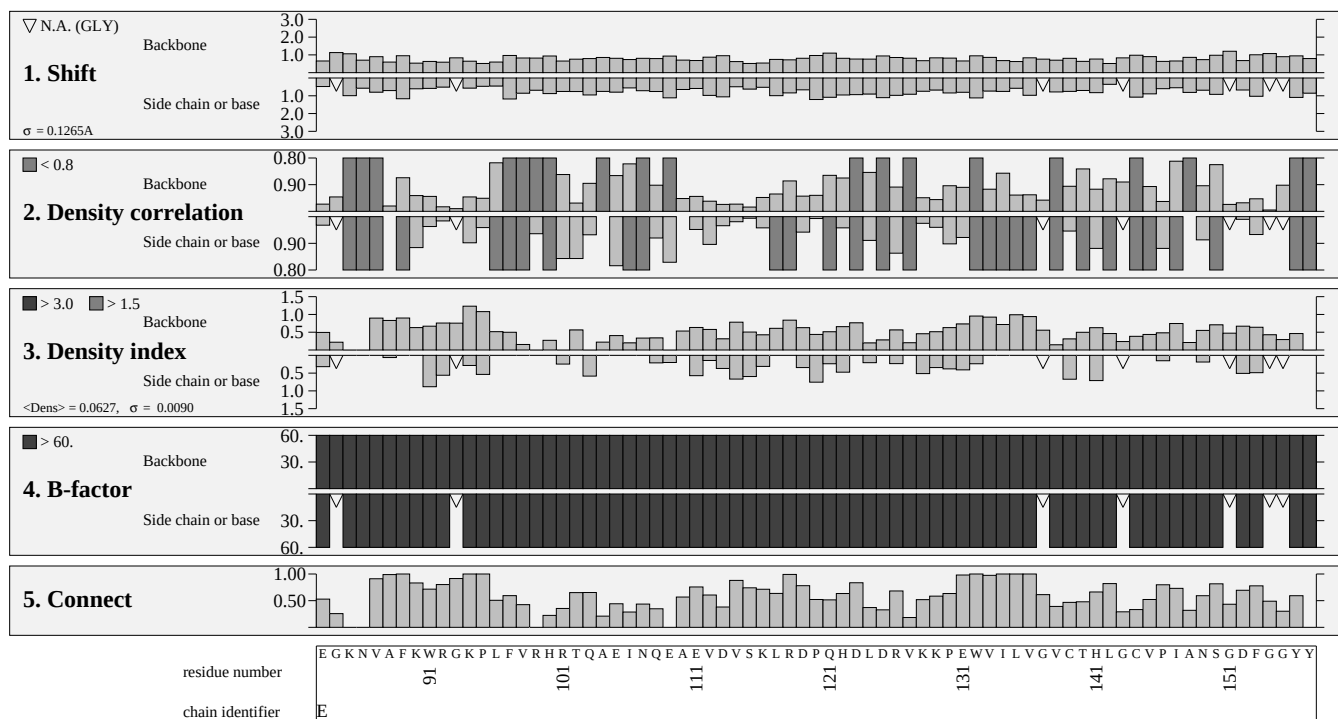
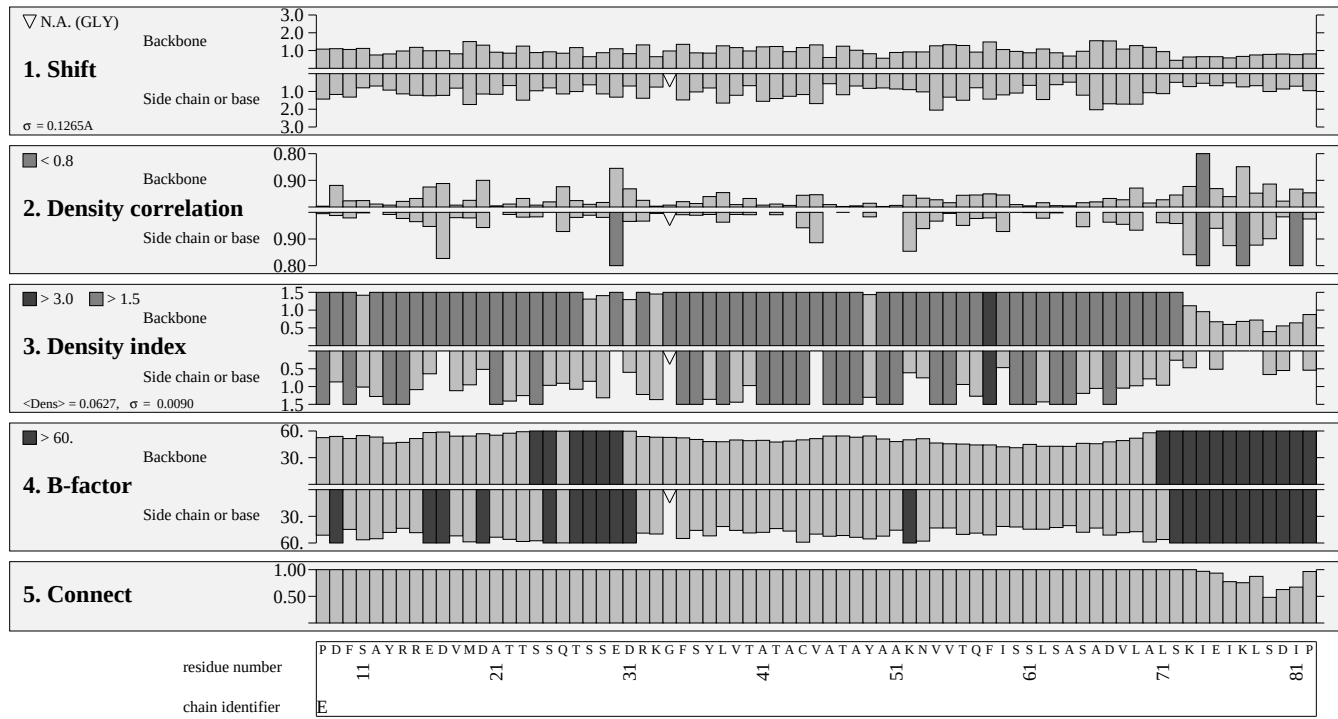
Local estimation (10)



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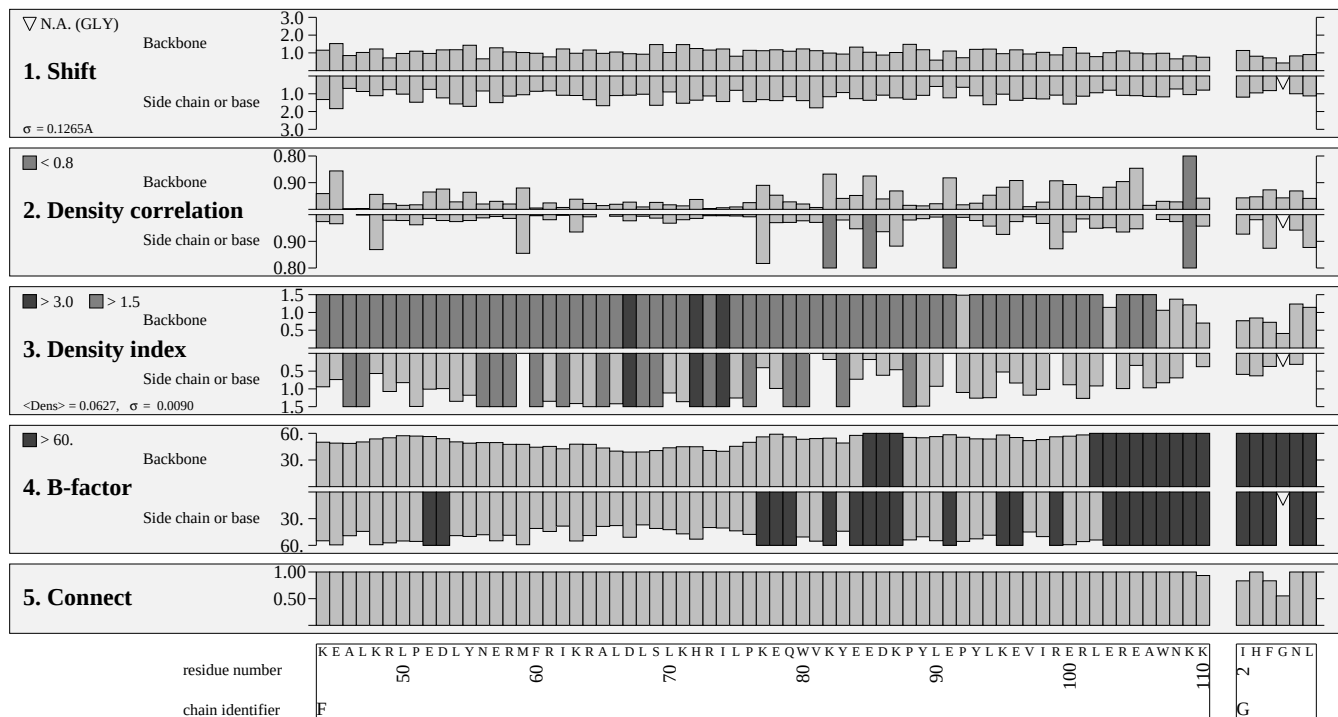
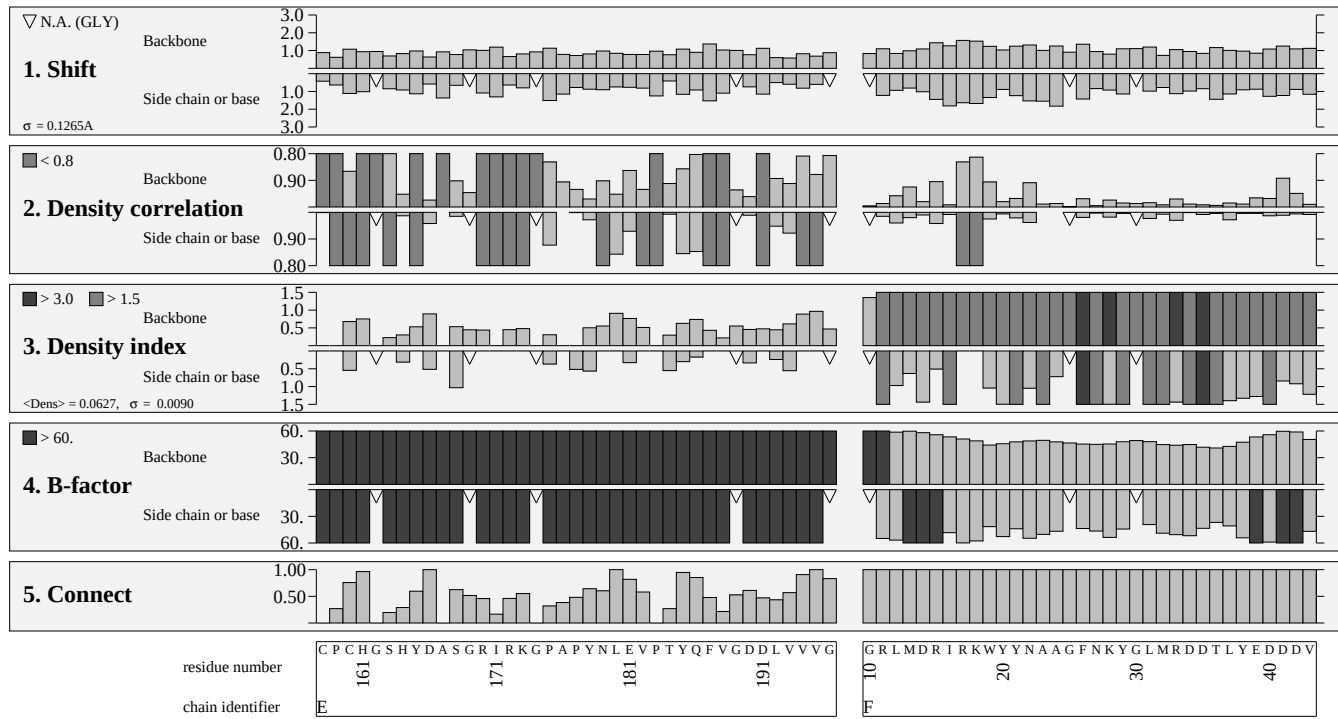
Local estimation (11)



Structure Factor Check

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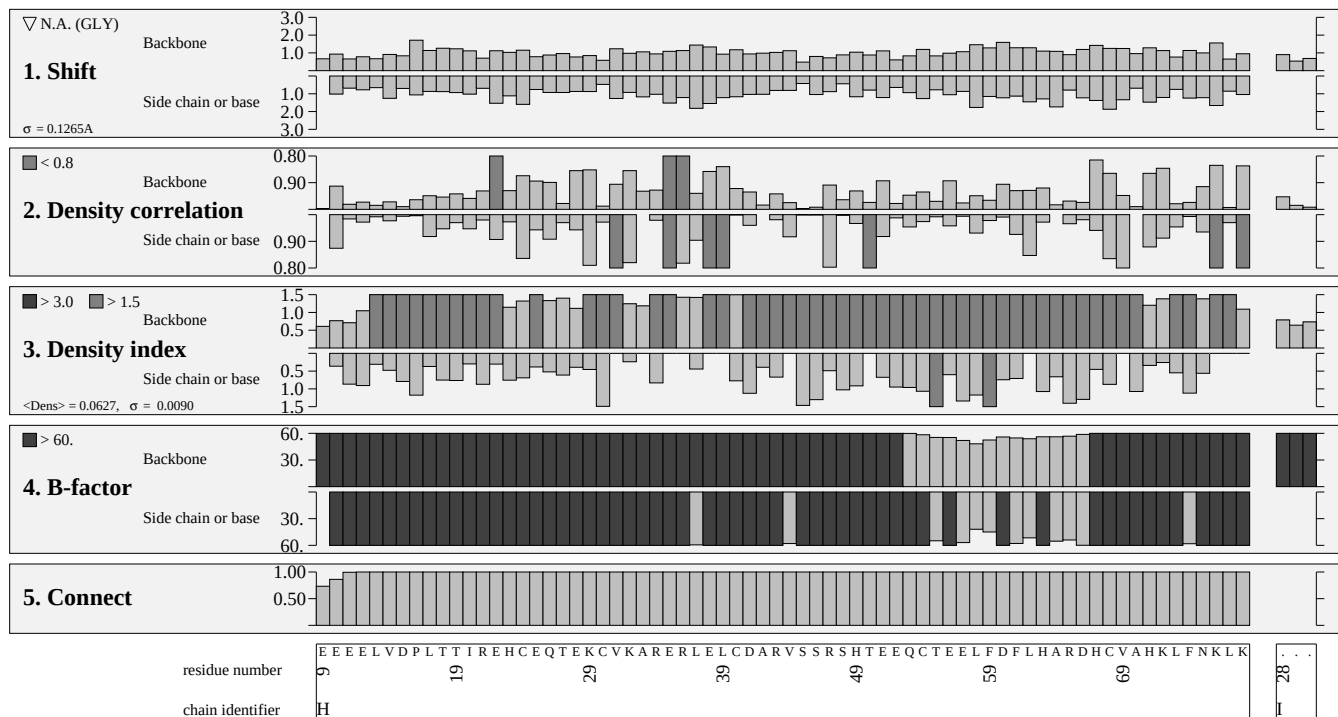
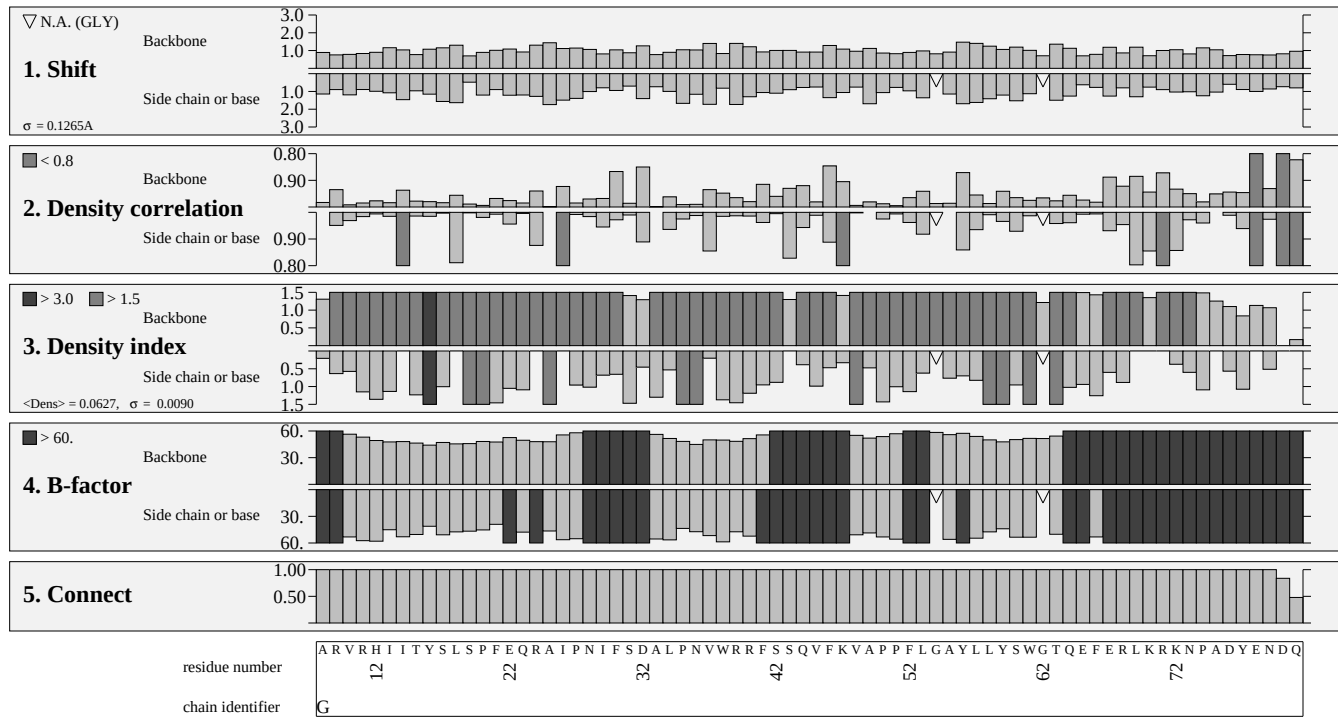
Local estimation (12)



Structure Factor Check

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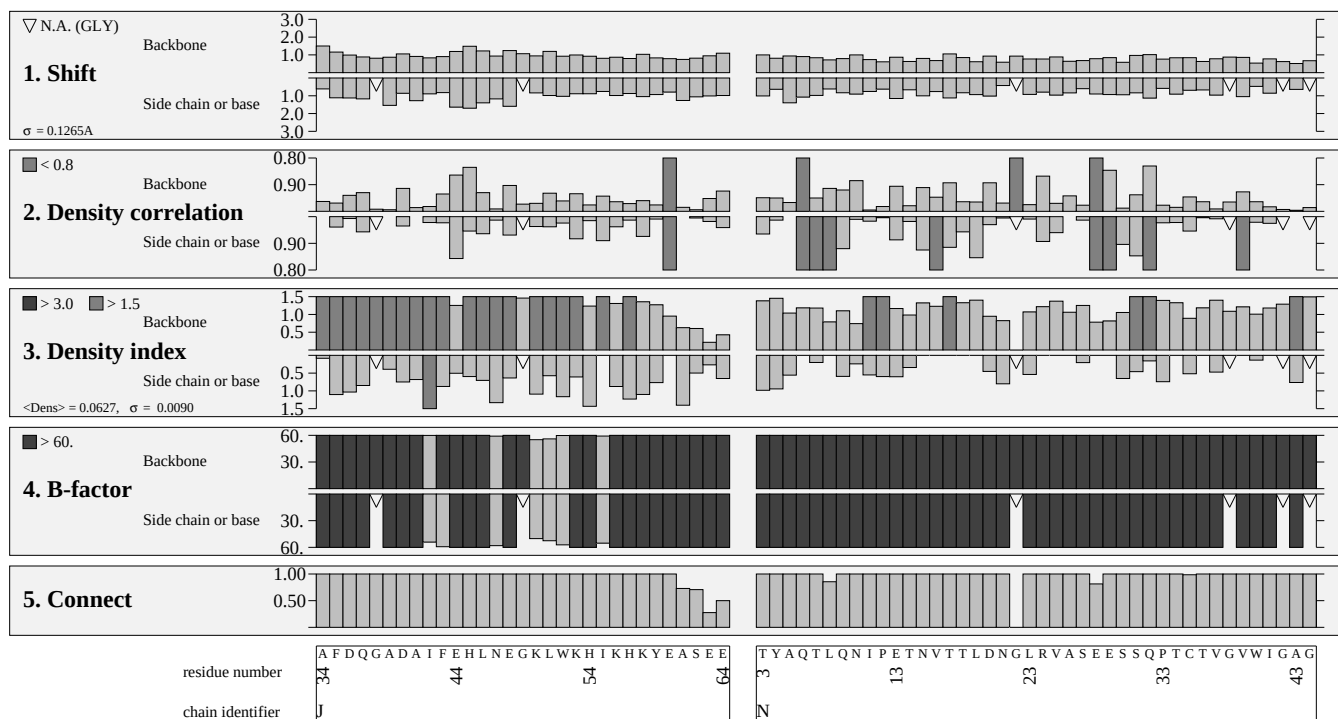
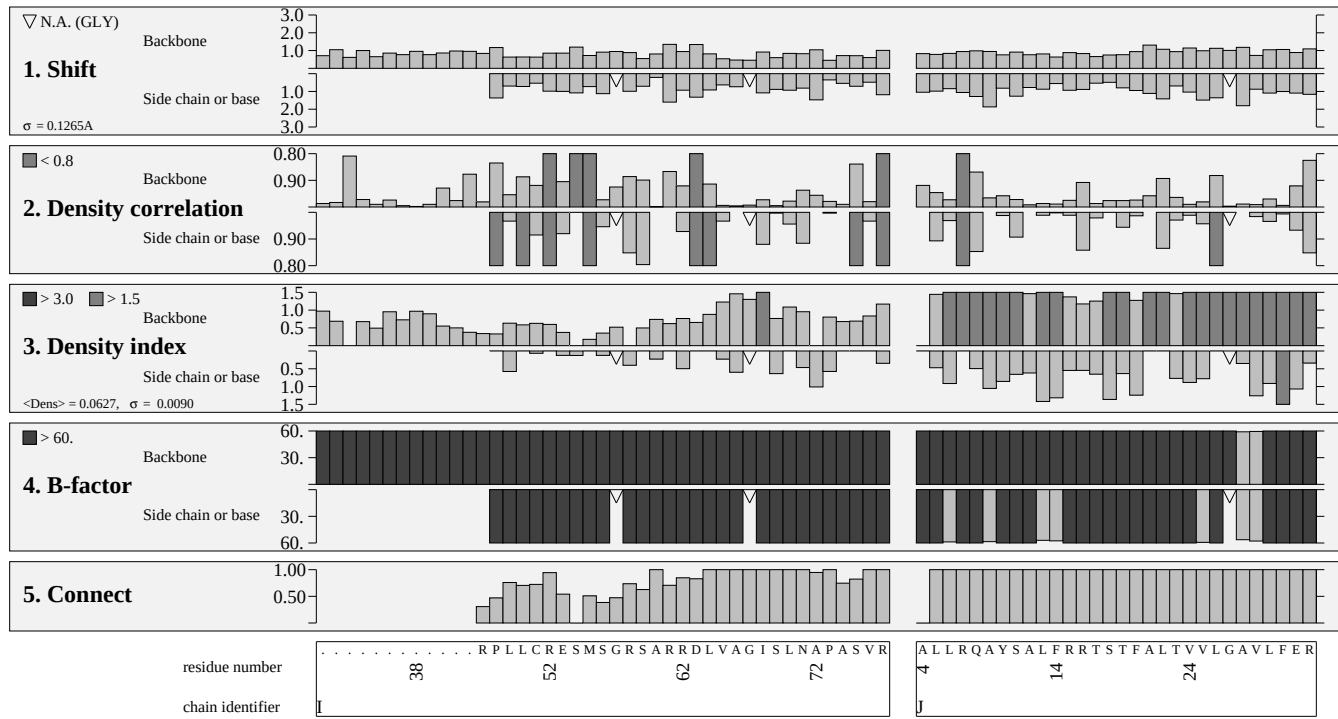
Local estimation (13)



Structure Factor Check

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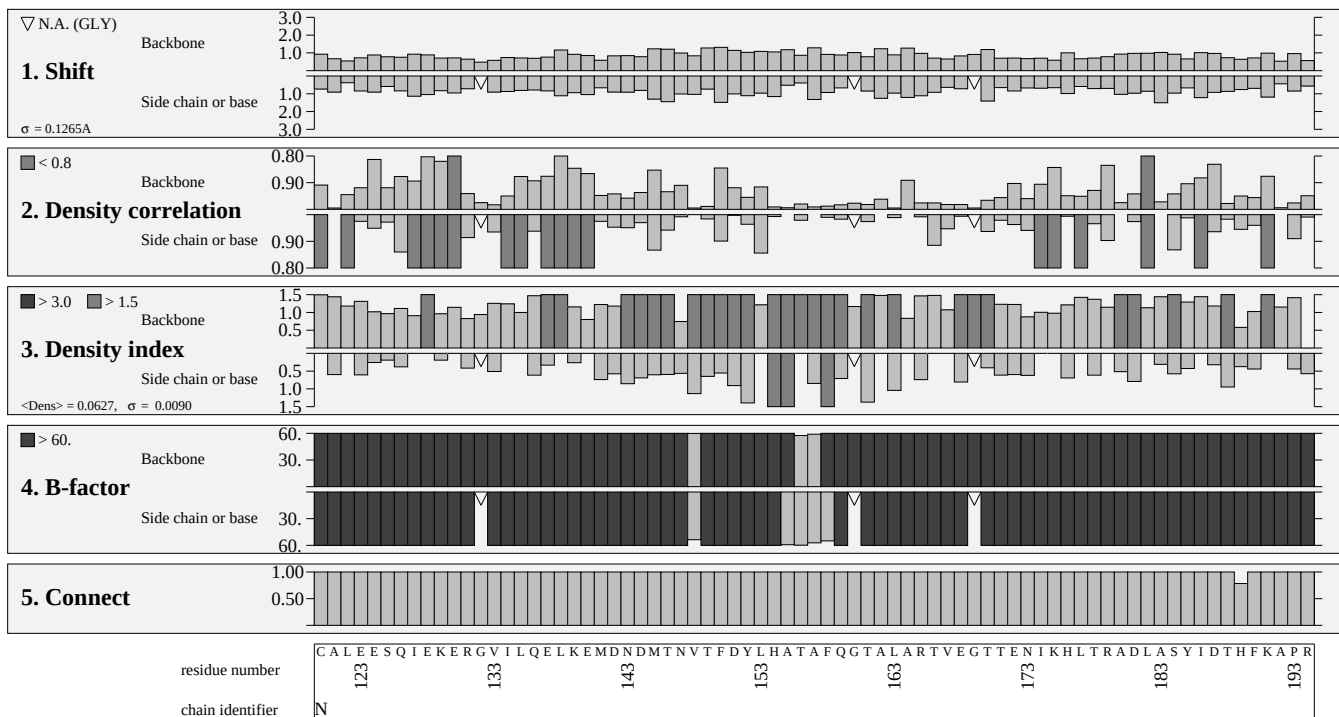
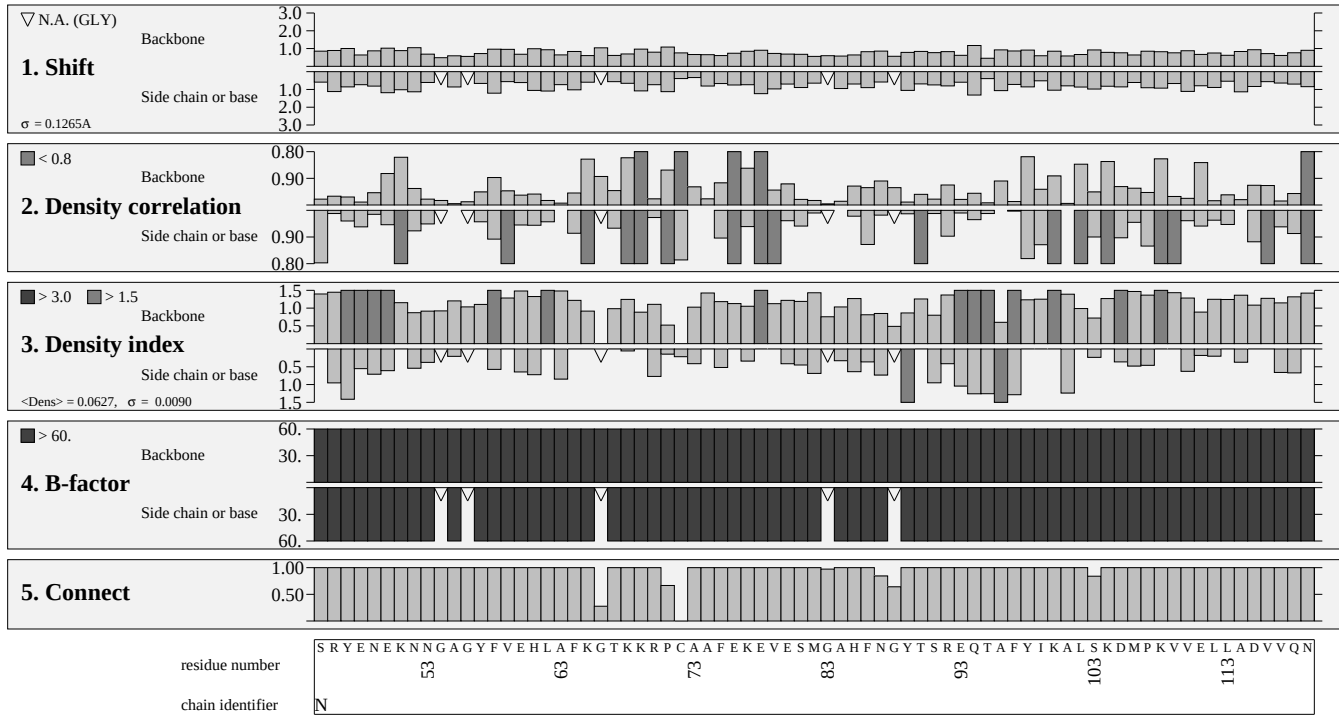
Local estimation (14)



Structure Factor Check

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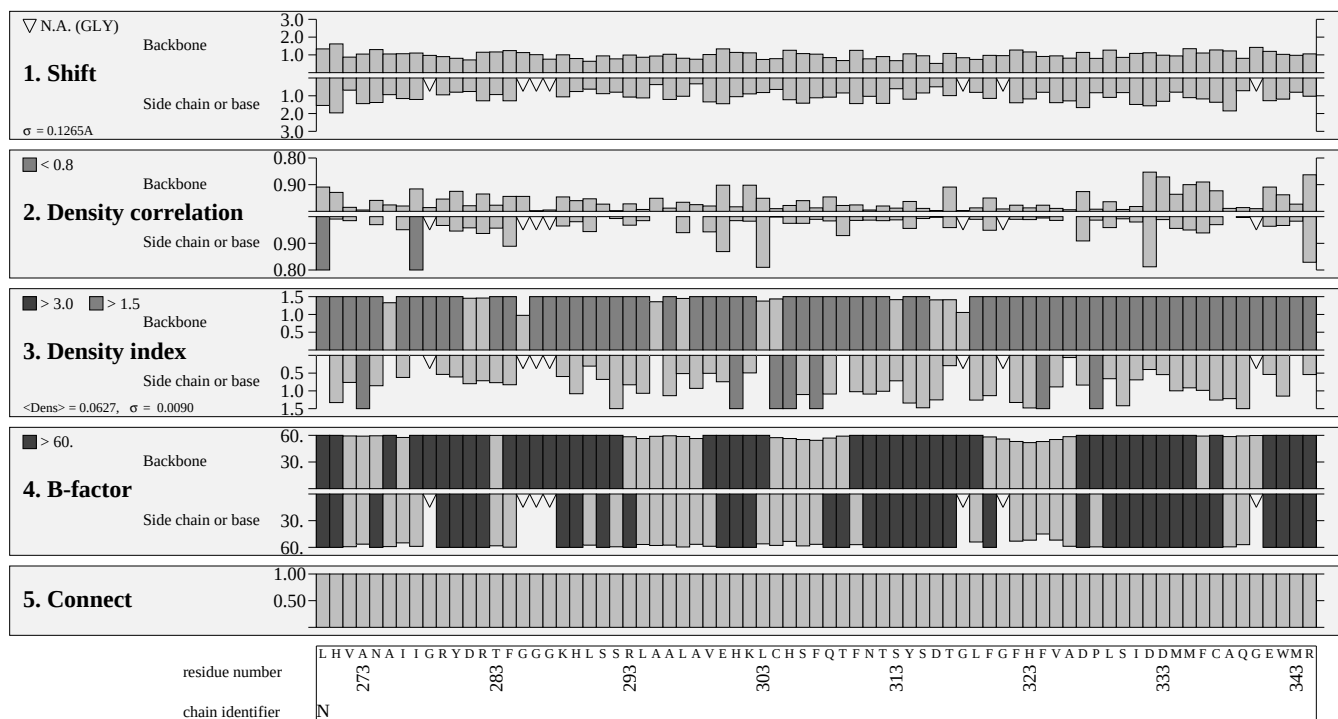
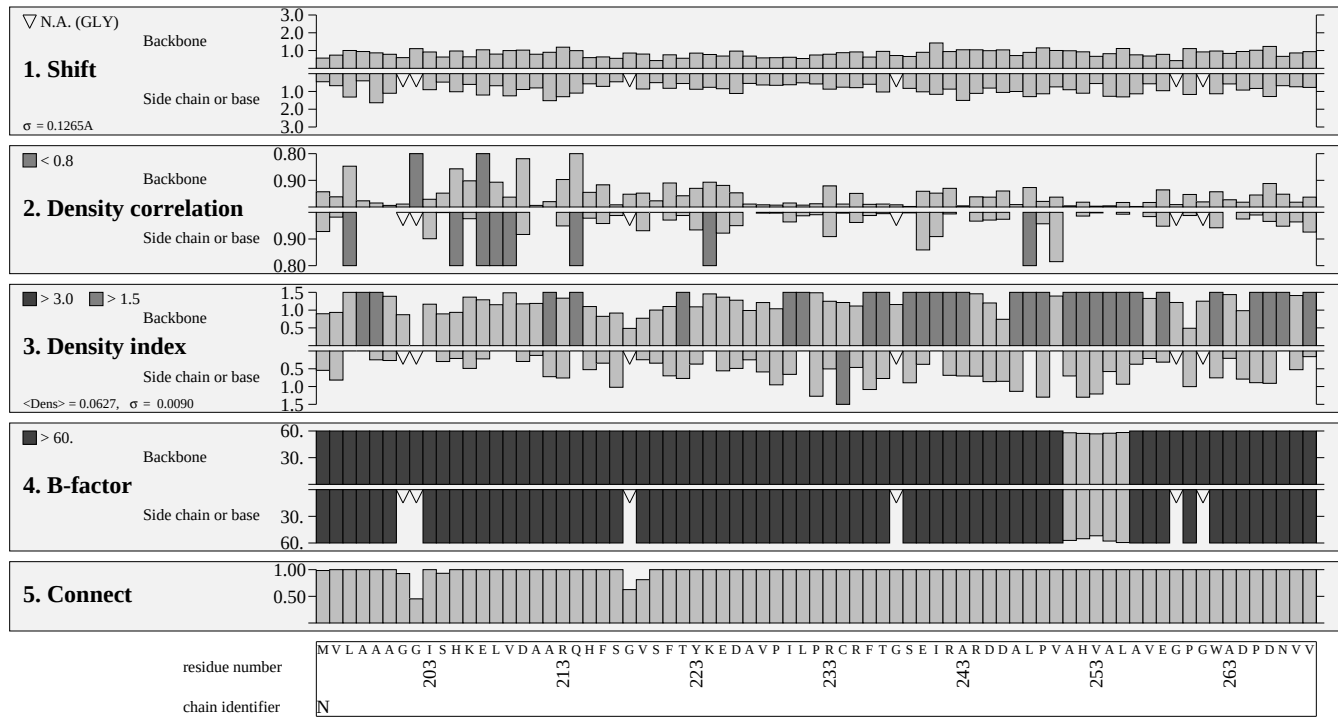
Local estimation (15)



Structure Factor Check

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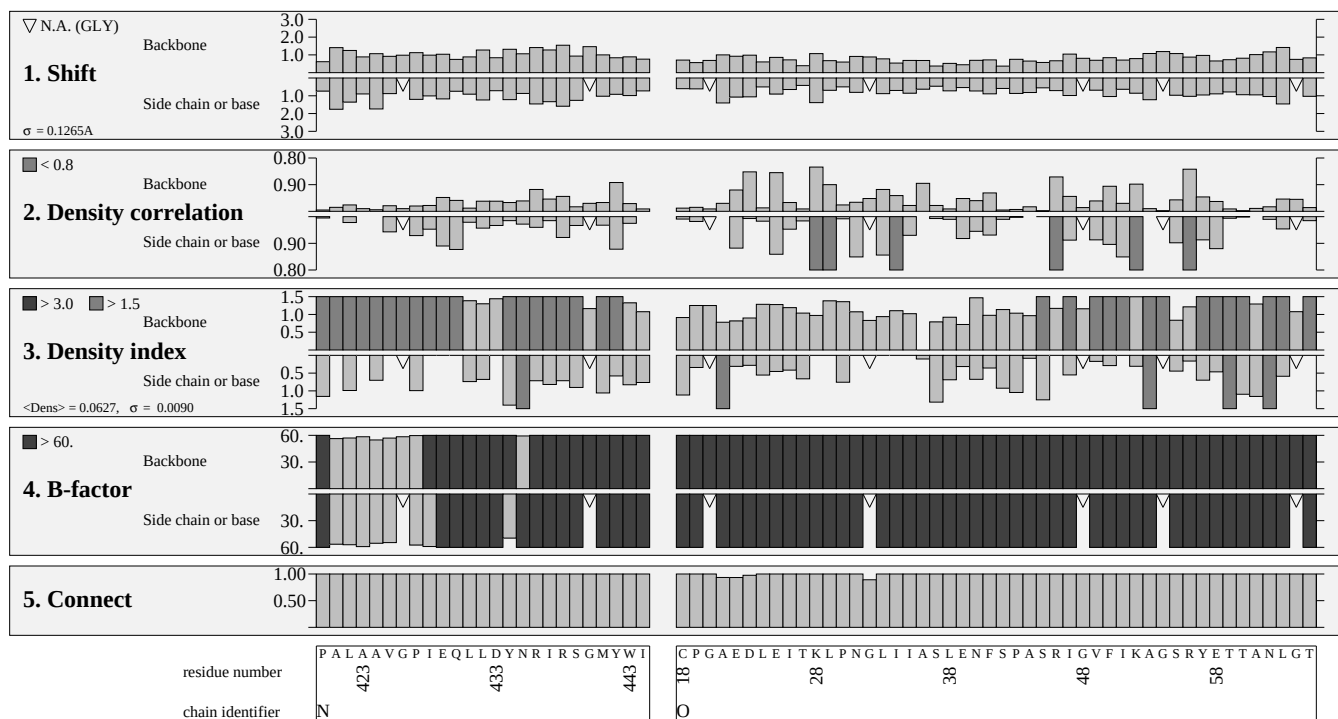
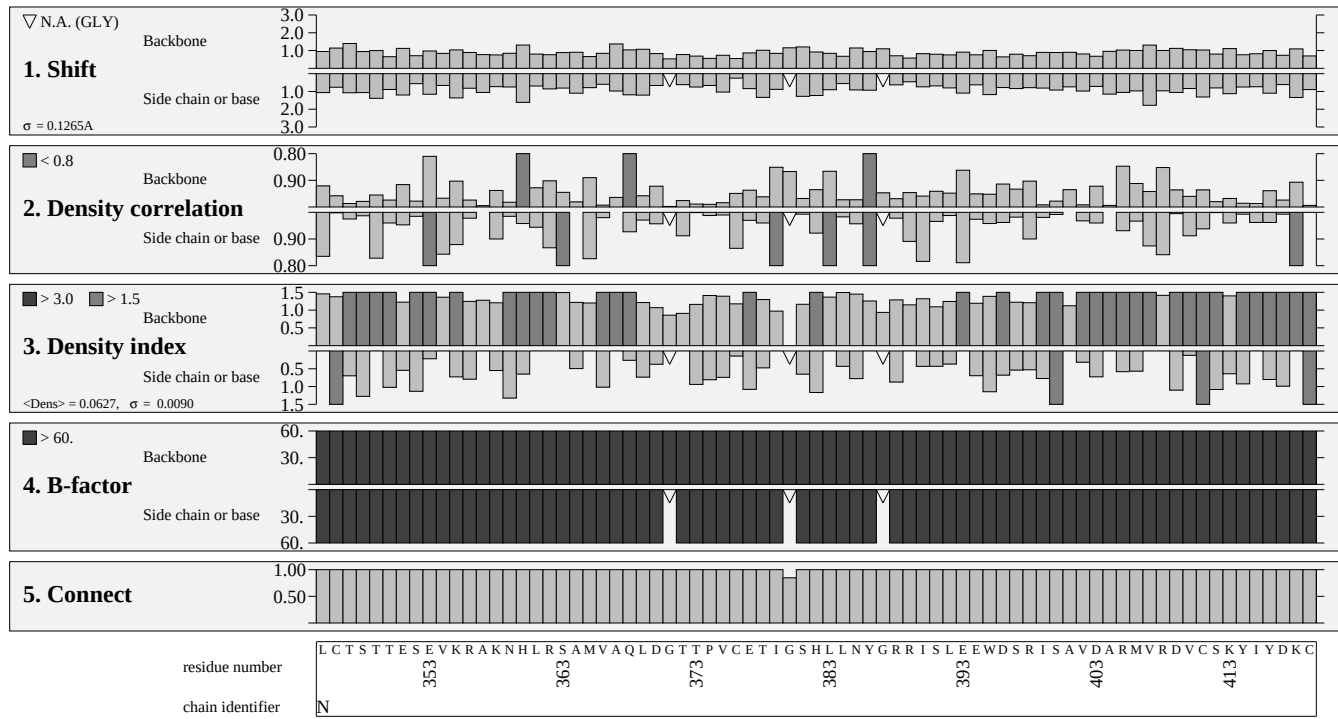
Local estimation (16)



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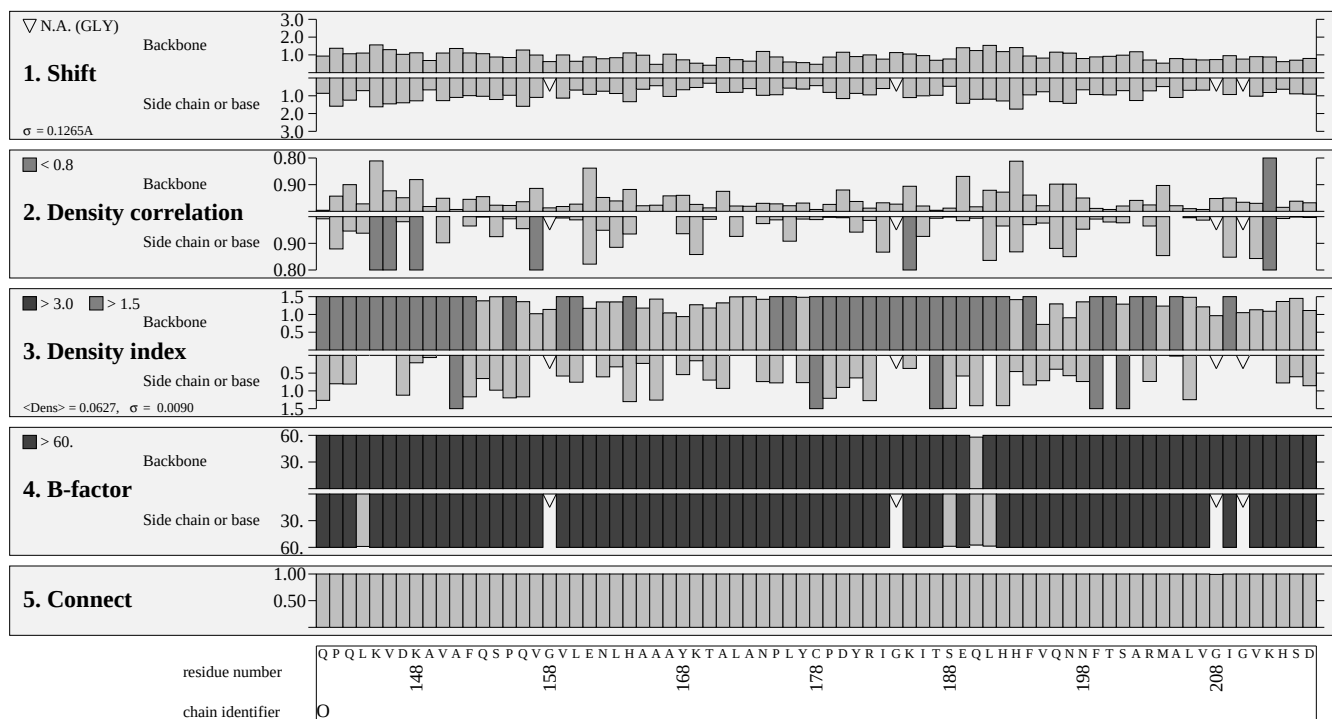
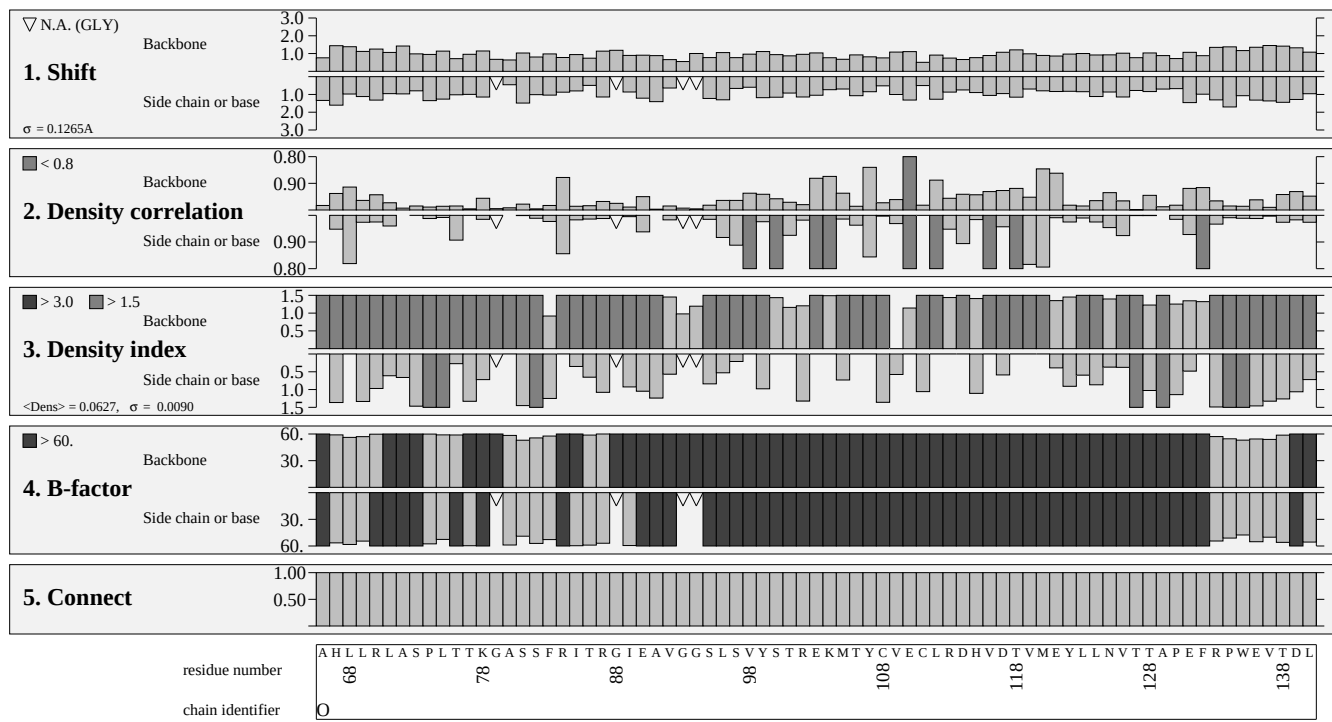
Local estimation (17)



Structure Factor Check

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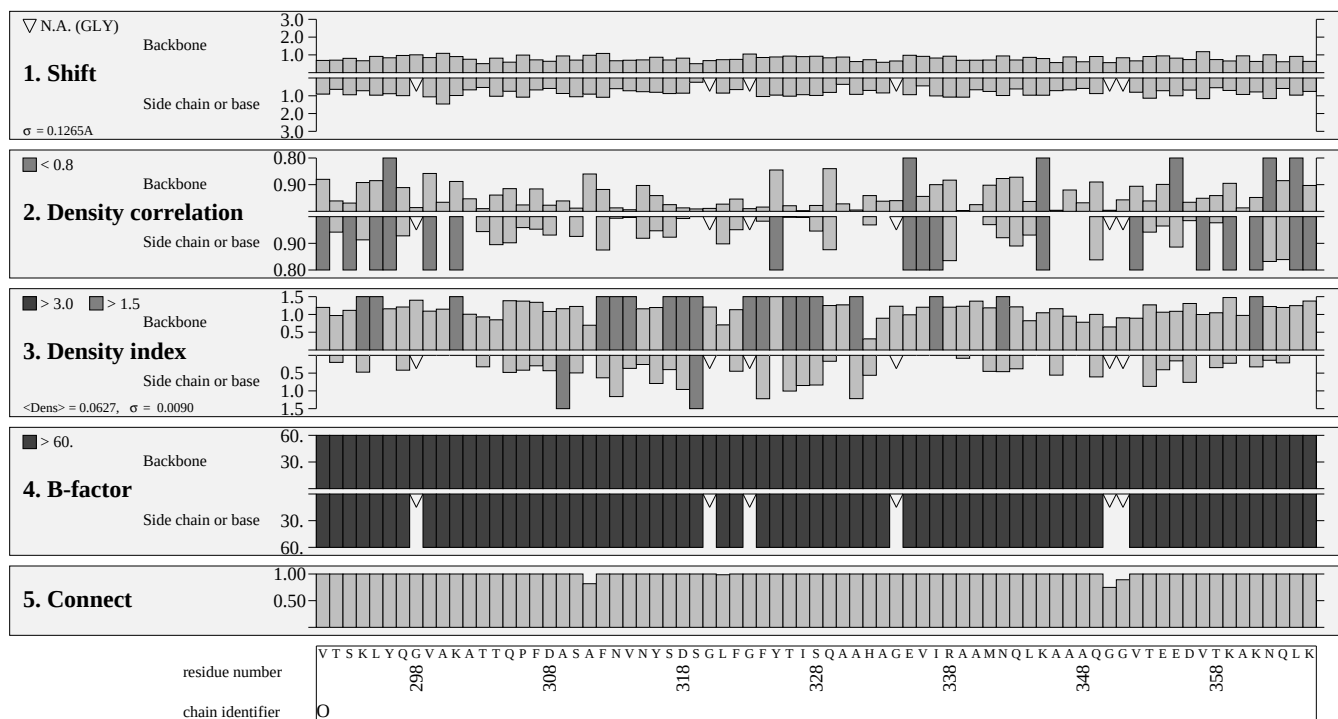
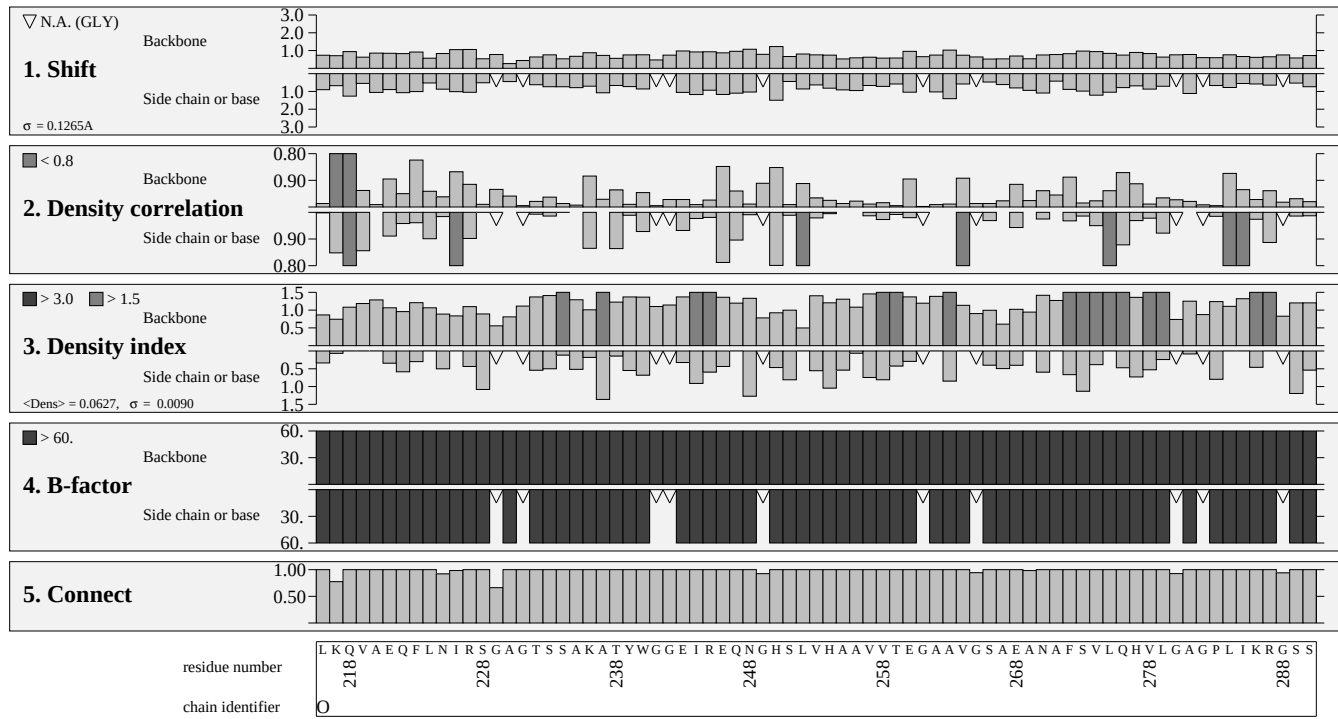
Local estimation (18)



Structure Factor Check

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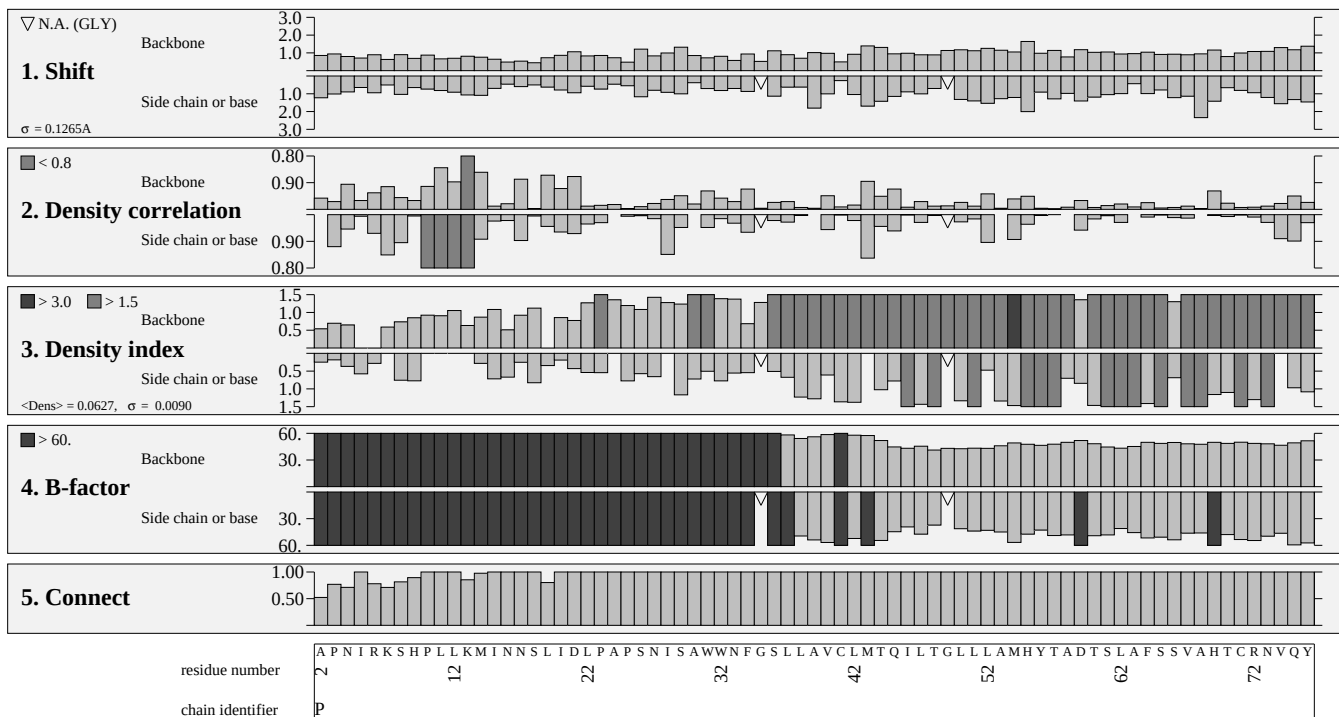
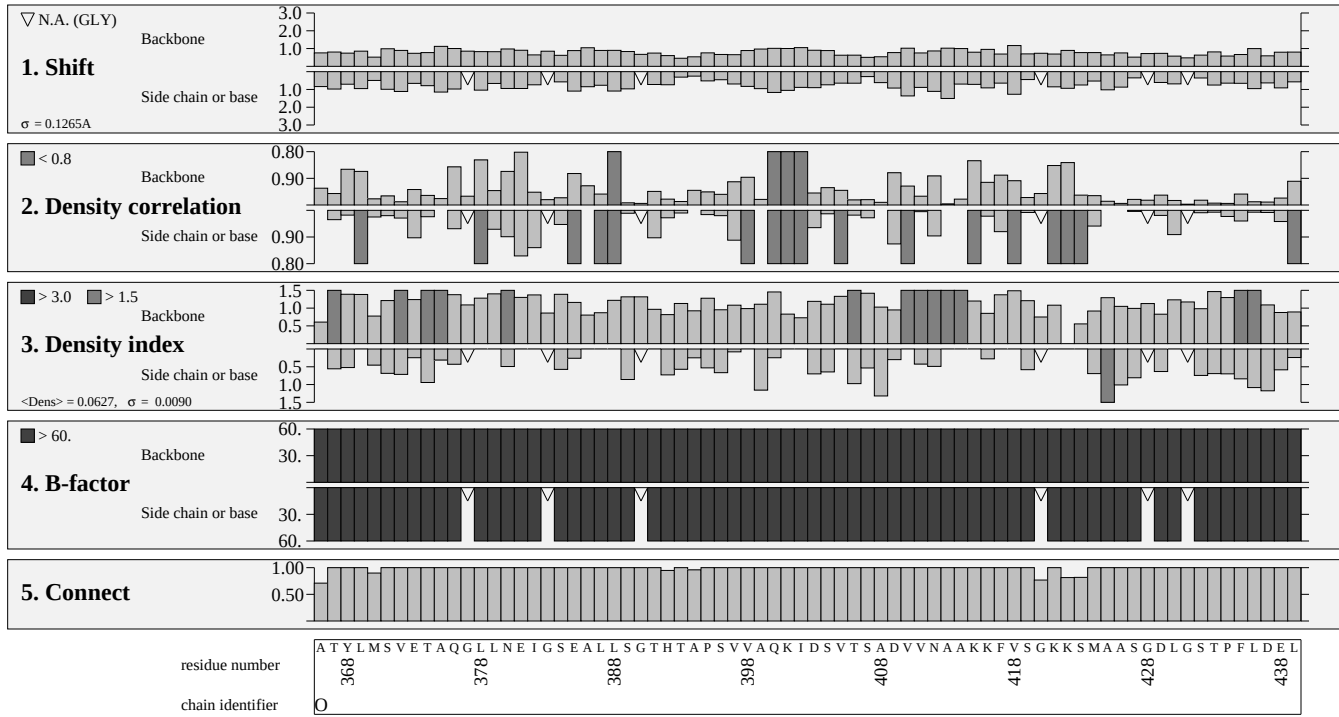
Local estimation (19)



Structure Factor Check

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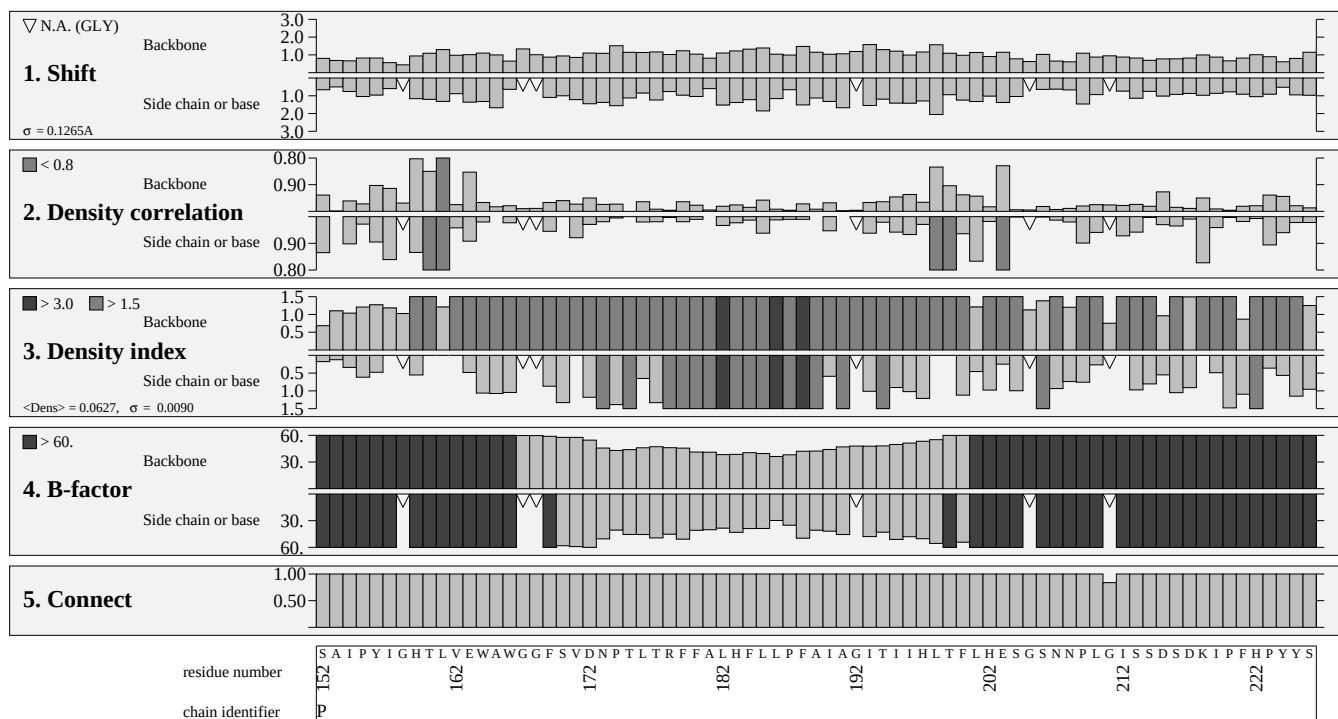
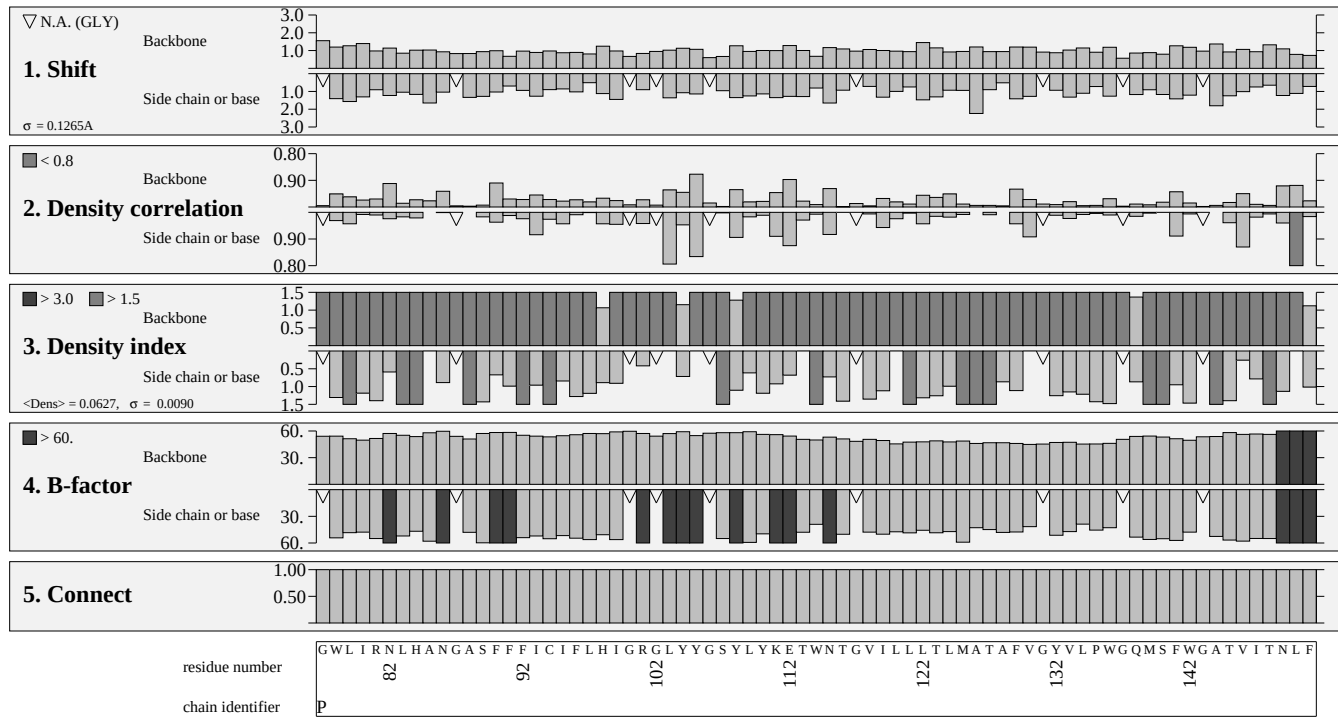
Local estimation (20)



Structure Factor Check

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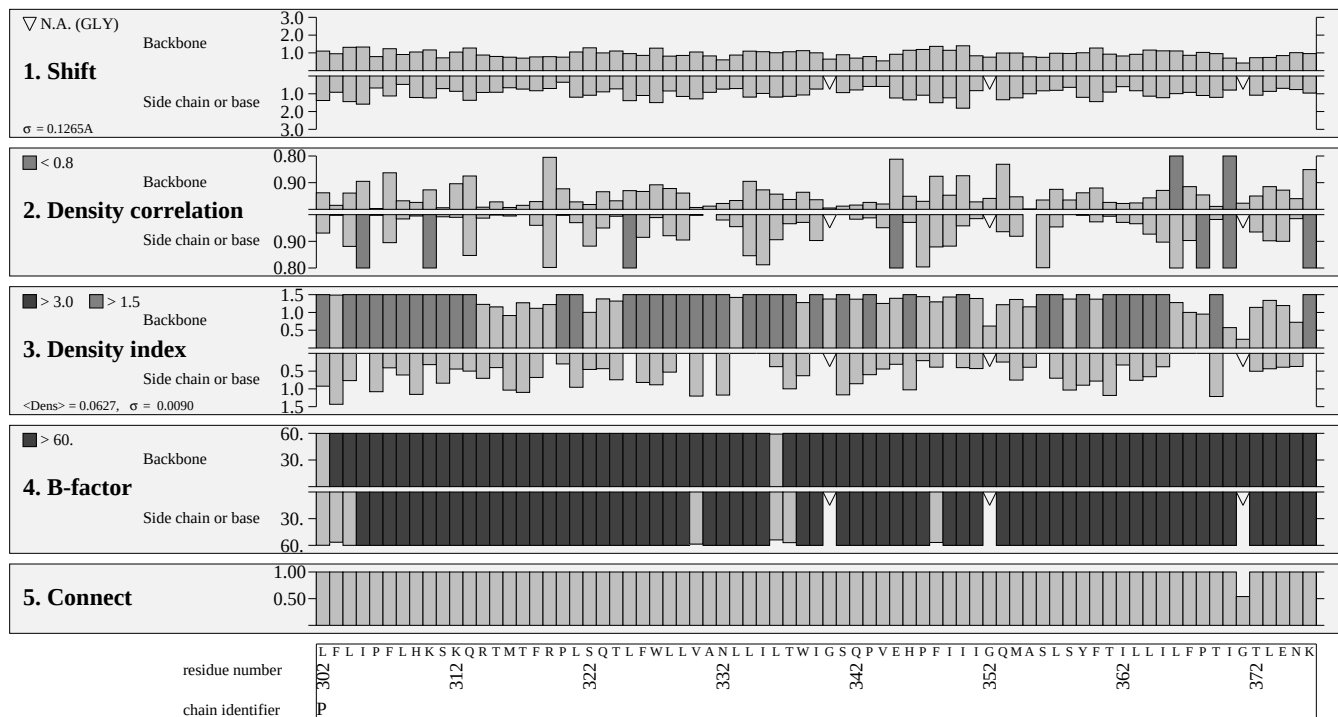
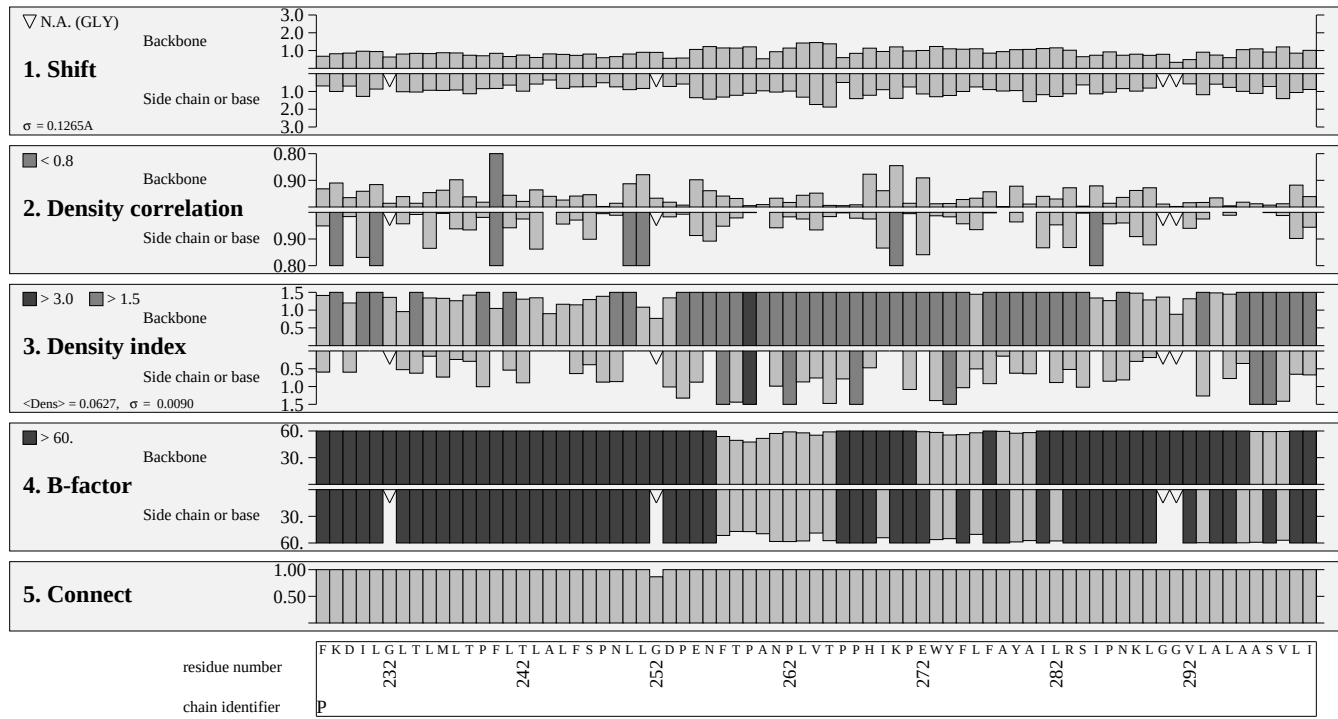
Local estimation (21)



Structure Factor Check

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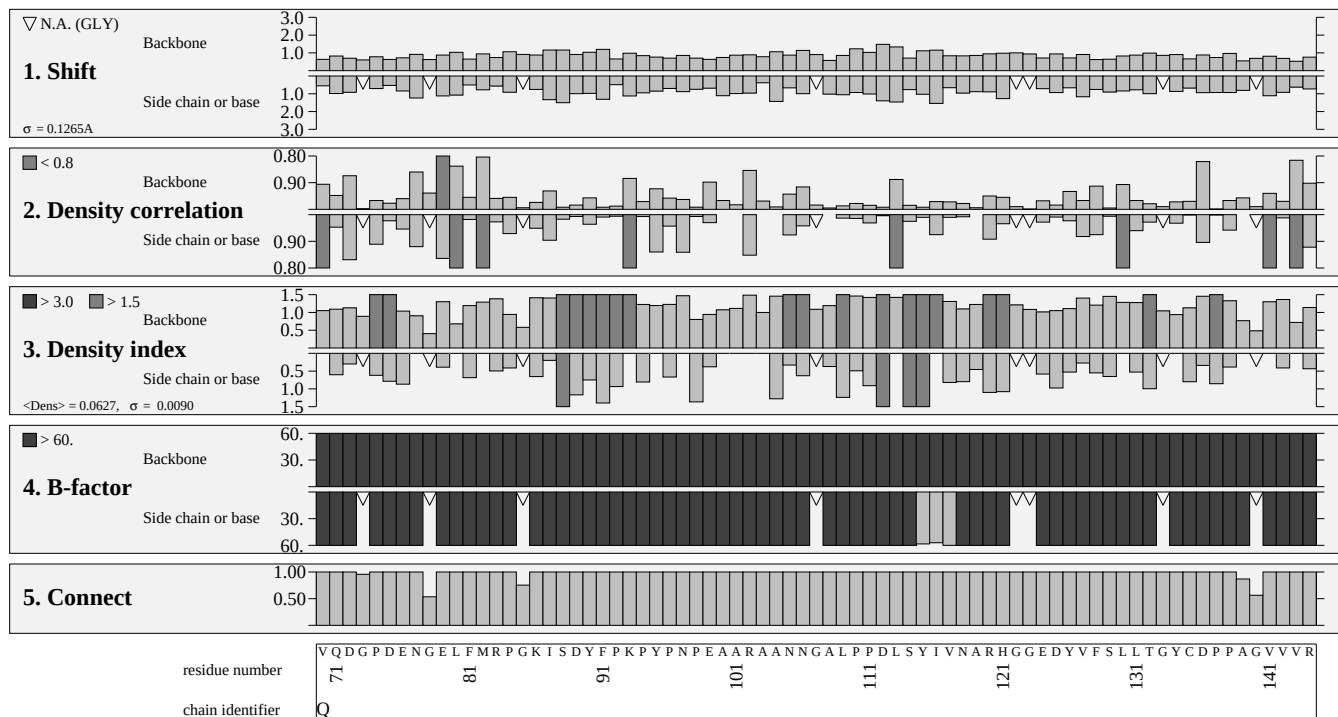
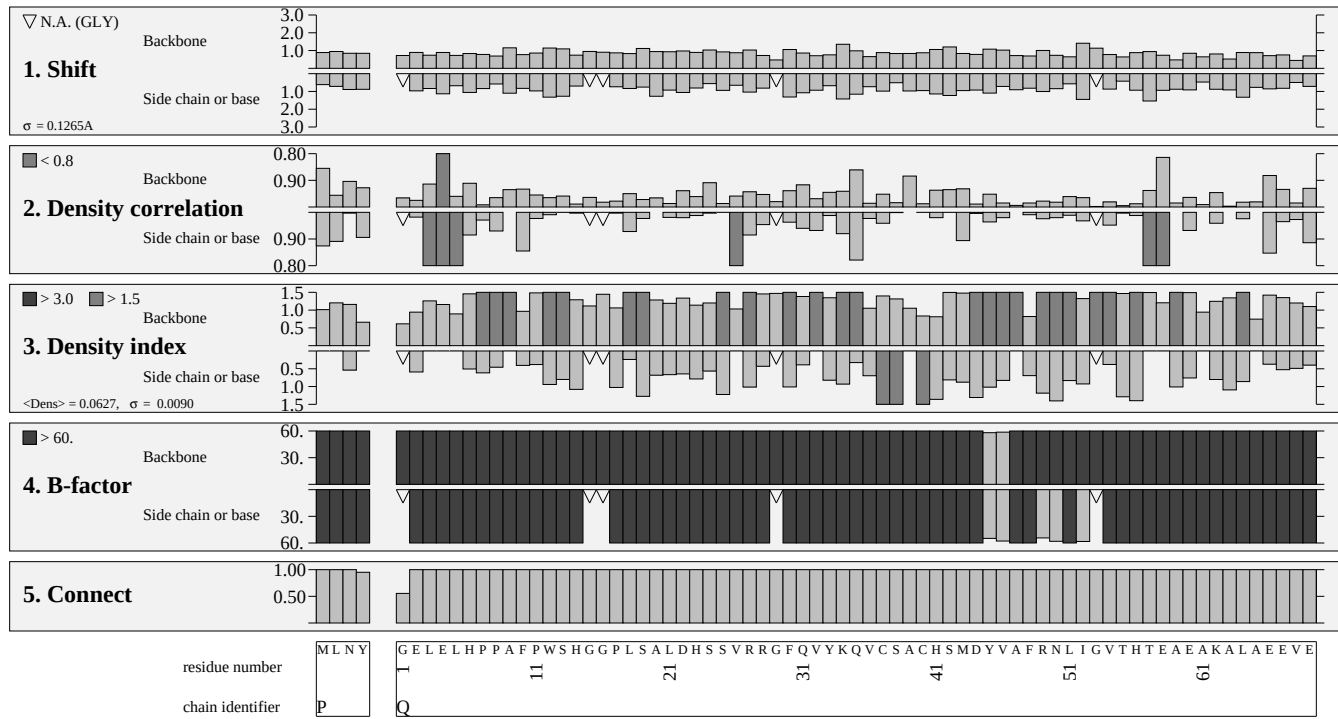
Local estimation (22)



Structure Factor Check

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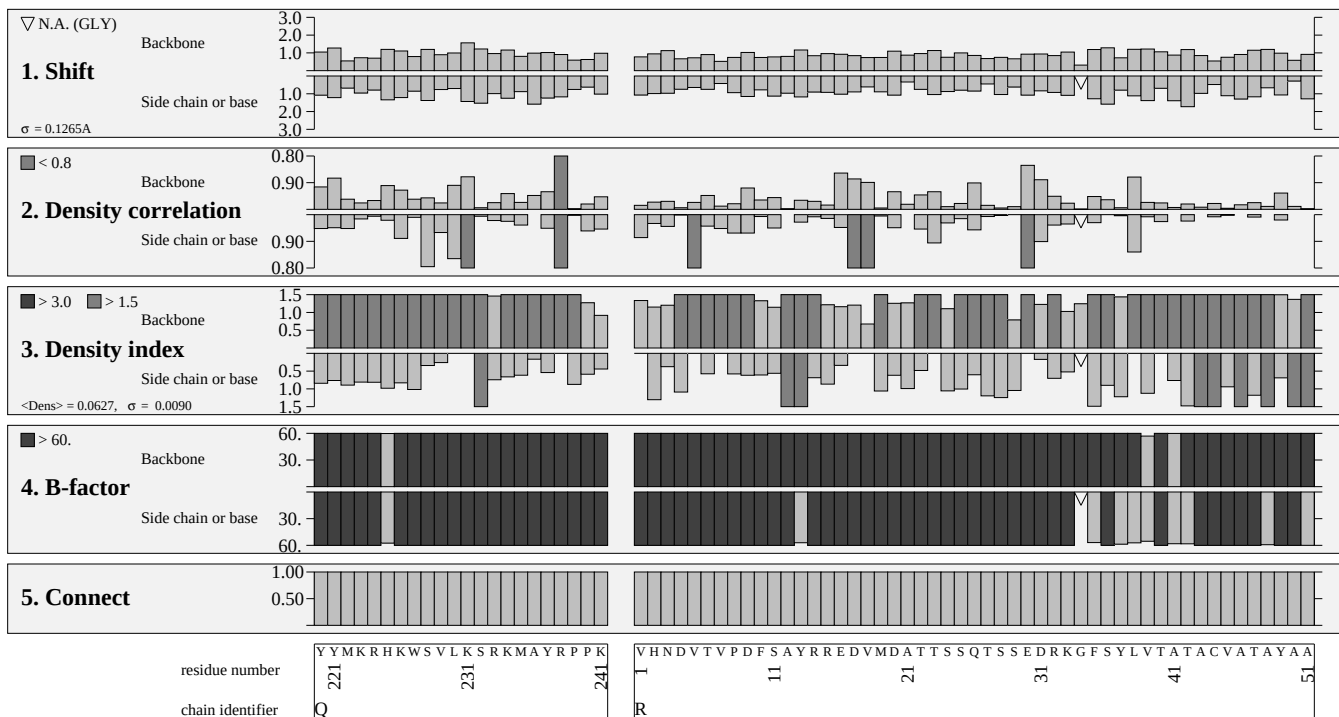
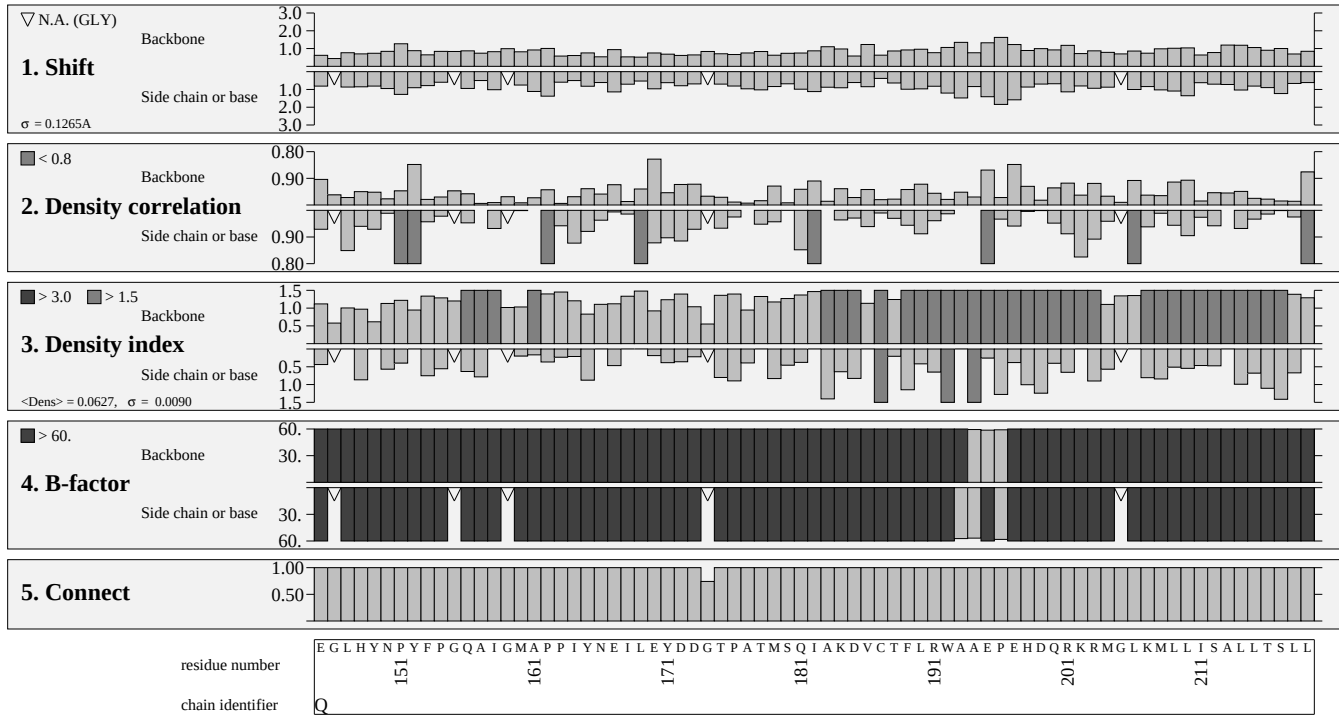
Local estimation (23)



Structure Factor Check

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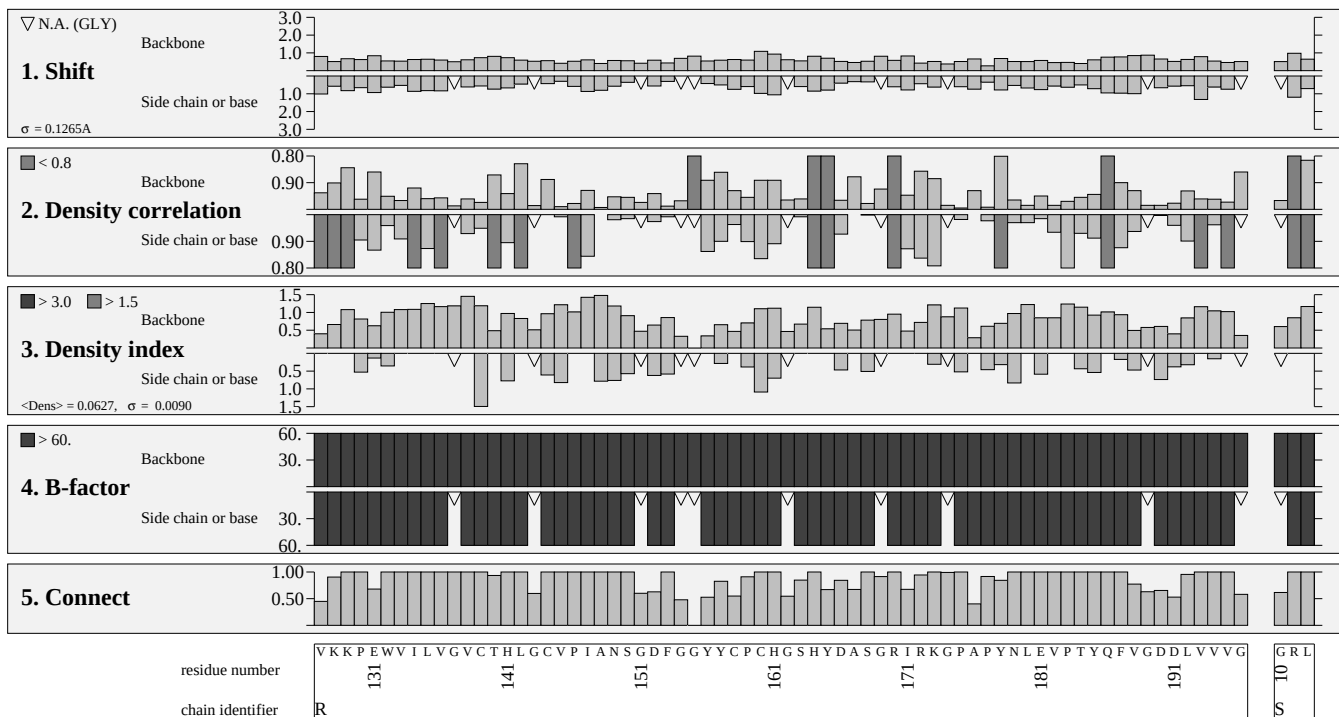
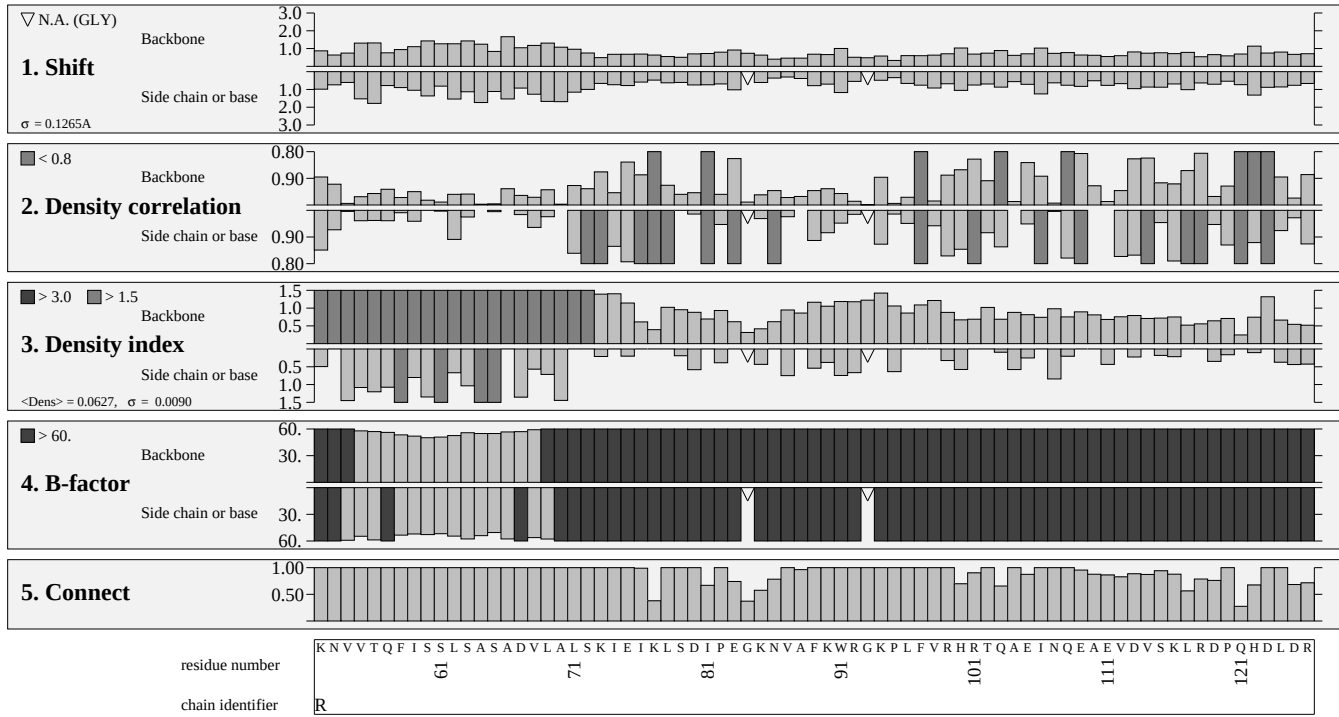
Local estimation (24)



Structure Factor Check

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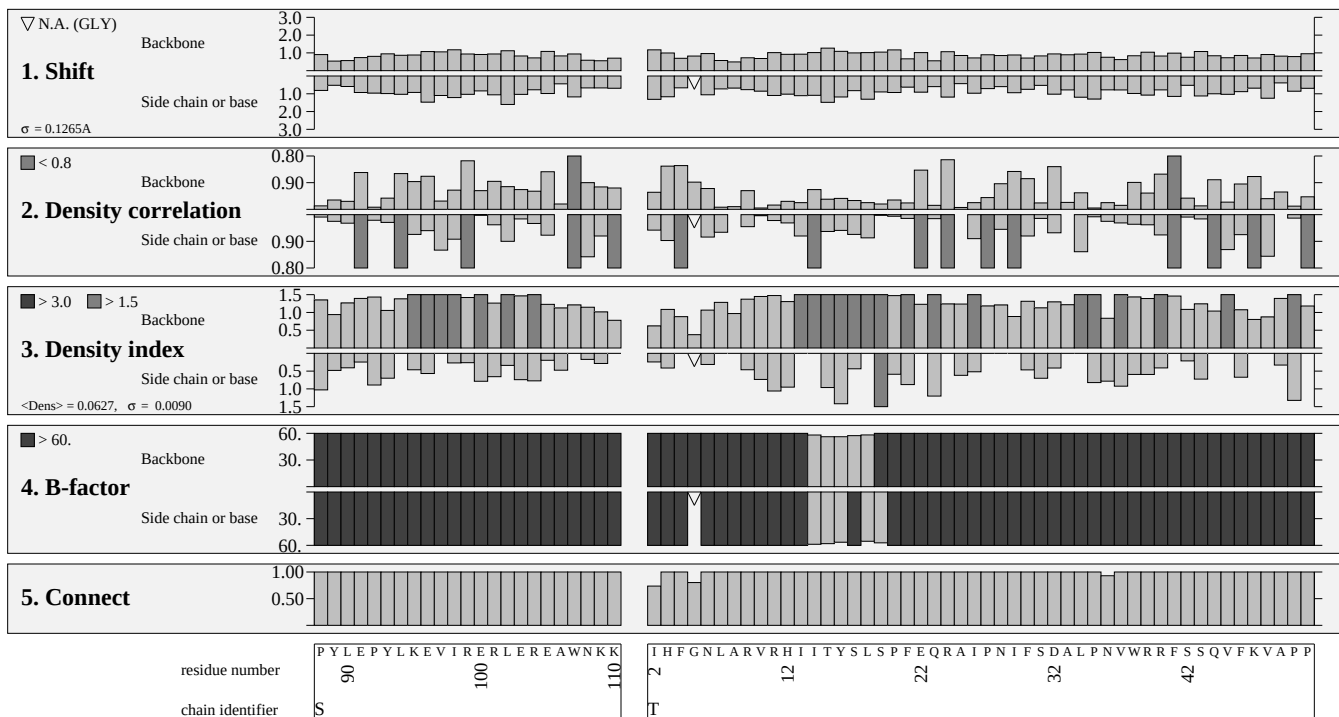
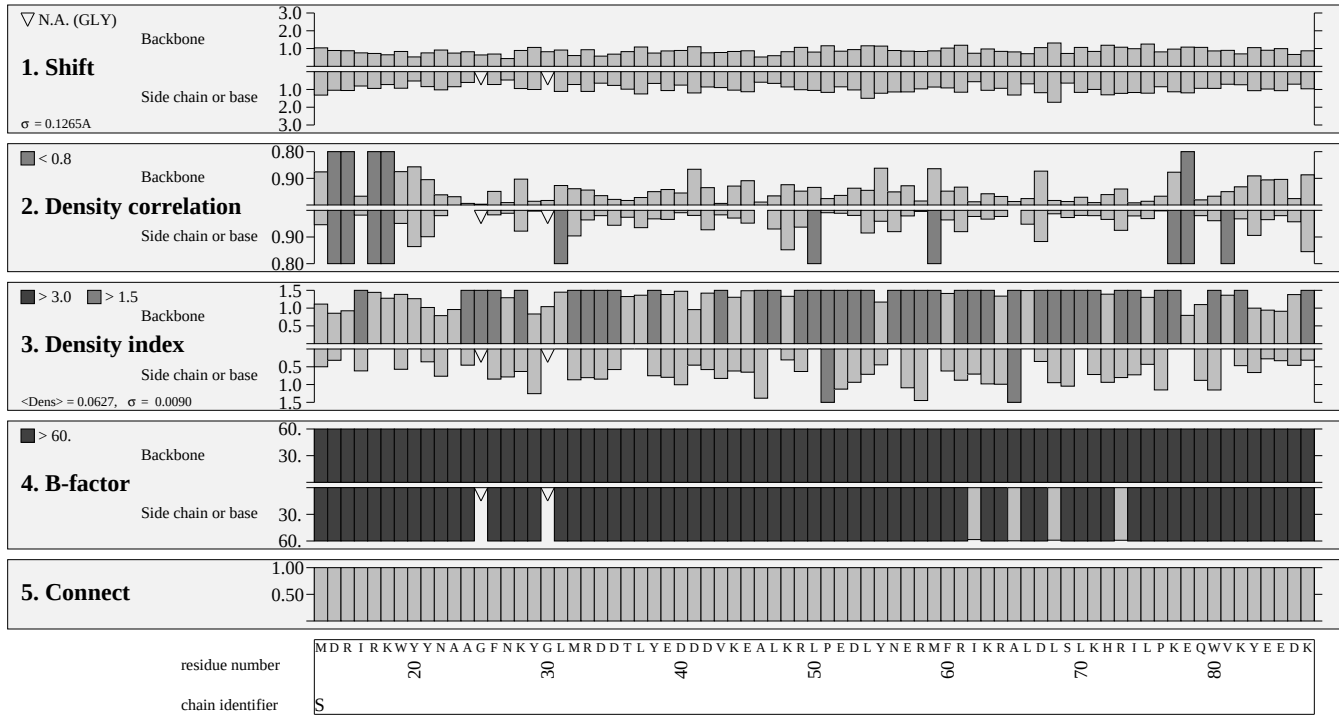
Local estimation (25)



Structure Factor Check

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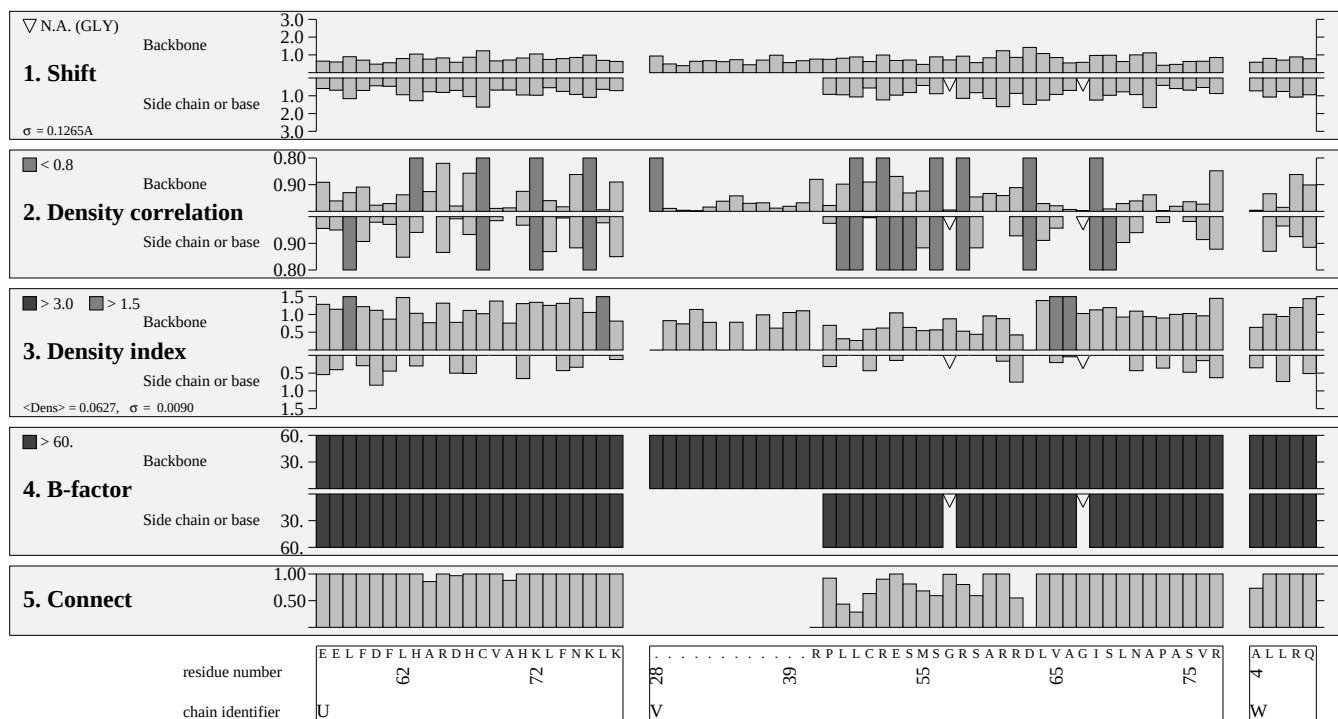
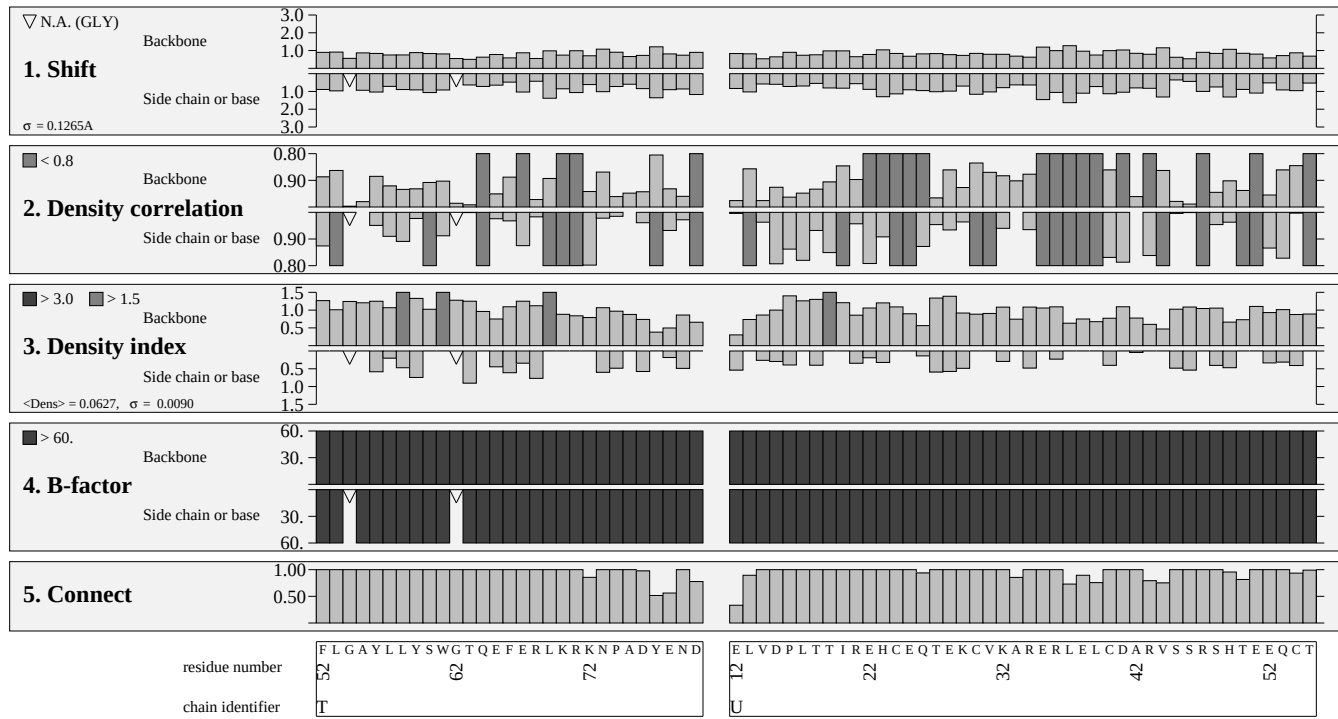
Local estimation (26)



Structure Factor Check

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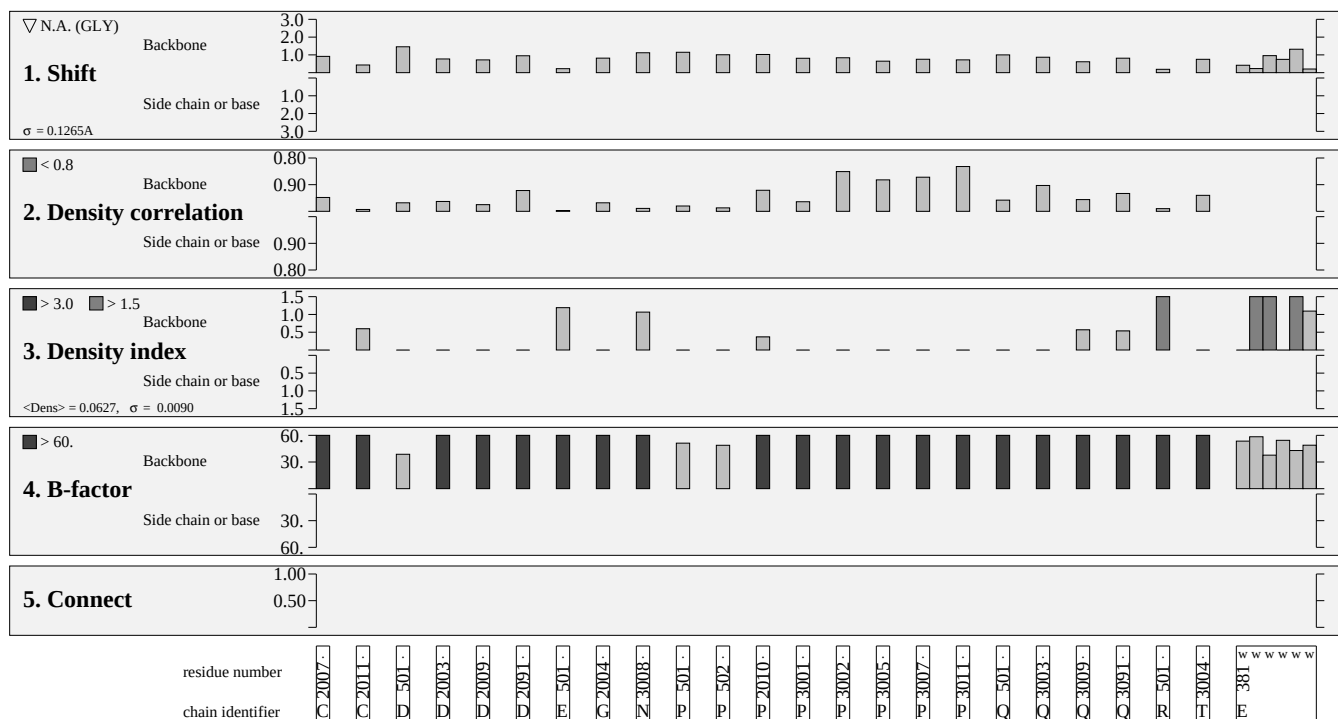
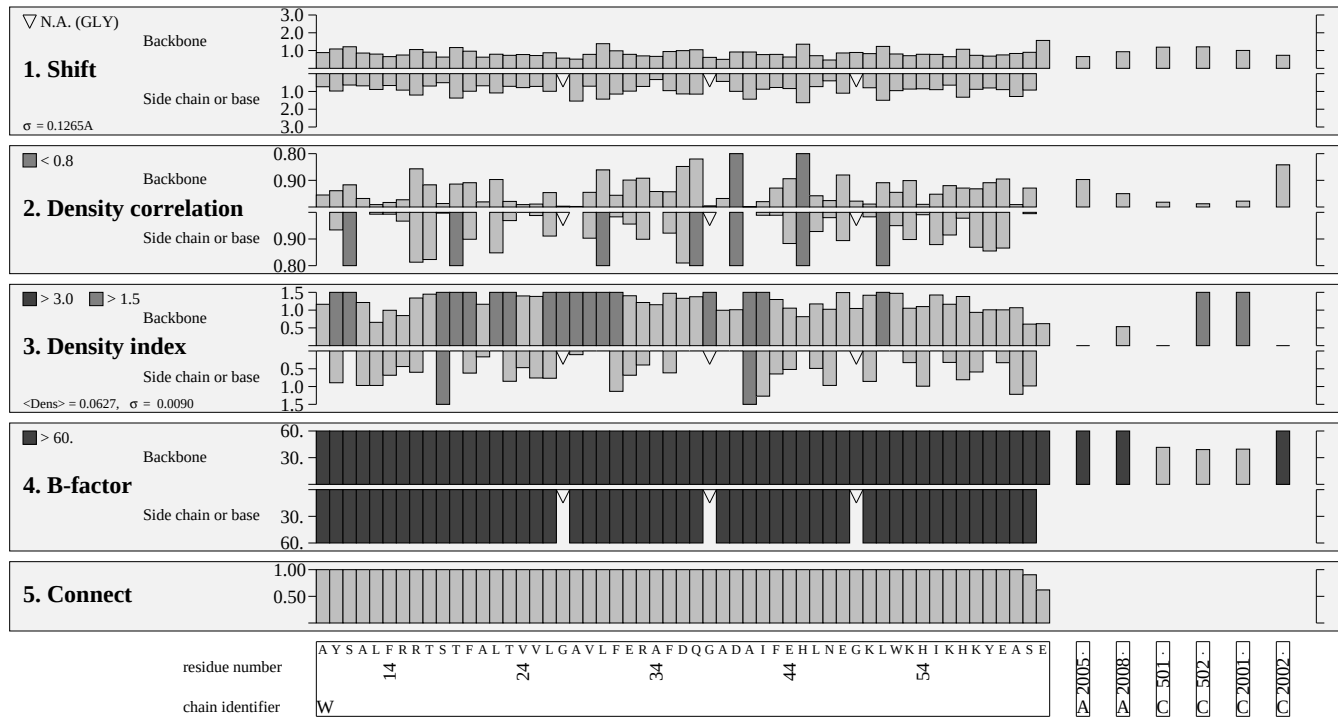
Local estimation (27)



Structure Factor Check

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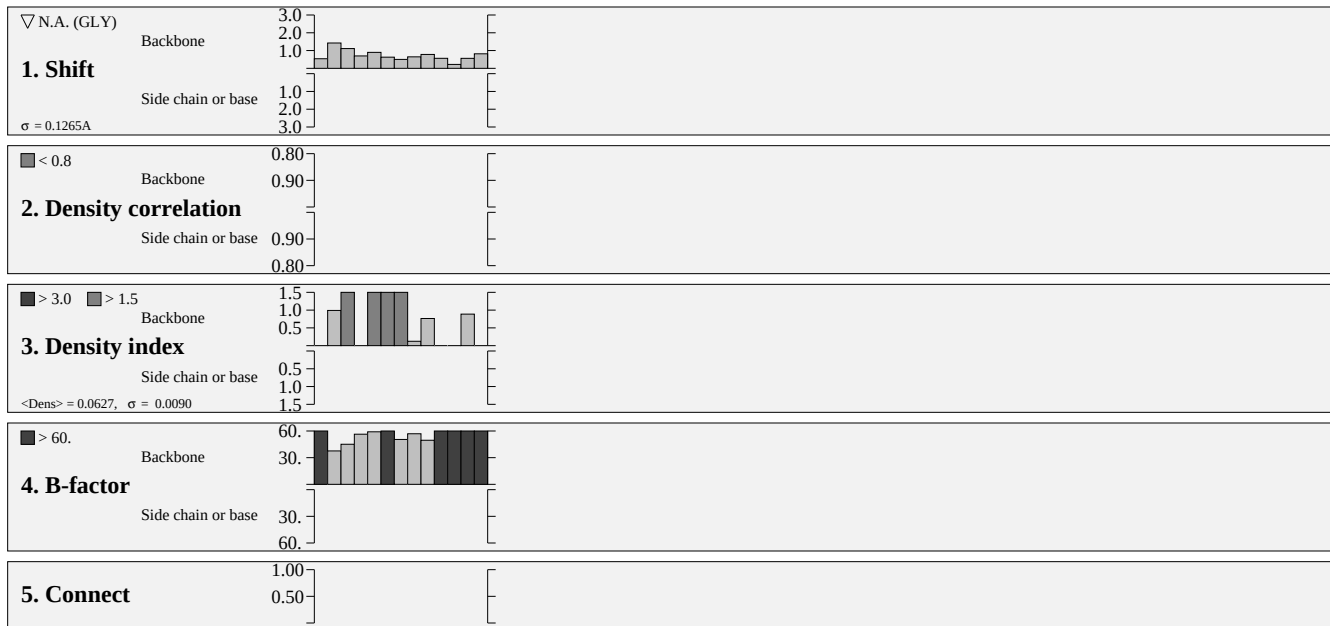
Local estimation (28)



Structure Factor Check

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Local estimation (29)



residue number

382

chain identifier

E