

Structure Factor Check

3VRA

Title: MITOCHONDRIAL RHODOQUINOL-FUMARATE REDUCTASE FROM THE PARASITIC NEMATODE ASCARIS SUUM WITH THE SPECIFIC INHIBITOR ATPENIN A
Date: 07-APR-12
PDB code: 3VRA

Crystal

Cell parameters:

a: 122.82 Å b: 132.25 Å c: 220.58 Å
 α : 90.00 β : 90.00 γ : 90.00

Space group: P 21 21 21

Model

18262 atoms

Number of chains: 24

Volume not occupied by model: 56.4 %

 (for atomic model): 96.7 Å²

σ (B): 4.70 Å²

Matthews coefficient: 3.50

Corresponding solvent % : 64.62

Refinement

Program: REFMAC 5.5.0109

Nominal resolution range: 49.7 – 3.44 Å

Reported R-factor: 0.205

Number of reflections used: 41132

Reported Rfree: 0.28

Sigma cut-off: N.A.

Structure Factors

Input

Nominal resolution range: 49.7 – 3.44 Å

Reflections in file: 43349

Unique reflections above 0: 43349

above 1 σ : 42401

above 3 σ : 25401

SF CHECK

Nominal resolution range: 49.7 – 3.44 Å

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

Used reflections: 43348

Reflections out of resolution: 1

Completeness: 89.5 %

R_{stand}(F) = $\langle \sigma(F) \rangle / \langle F \rangle$: 0.097

Anisotropic distribution of Structure Factors

ratio of eigen values: 0.9350 1.0000 0.9435

B_{overall} (by Patterson): 68.Å²

Optical resolution: 2.55 Å

Expected opt. resol. for complete data set: 2.55 Å

Estimated minimal error: 0.149 Å

Model vs. Structure Factors

R-factor for all reflections: 0.301

Correlation factor: 0.797

R-factor: 0.307

for $F > 2.0 \sigma$

nom. resolution range: 49.72 – 3.44 Å

reflections used: 42399

Rfree: 0.358

Nfree: 2169

R-factor without free-refl.: 0.304

Non free-reflections: 40230

<u> (error in coords by Luzzati plot): 0.665 Å

Estimated maximal error: 0.329 Å

DPI: 0.651 Å

Scaling

Scale: 0.792

Bdiff: -3.32

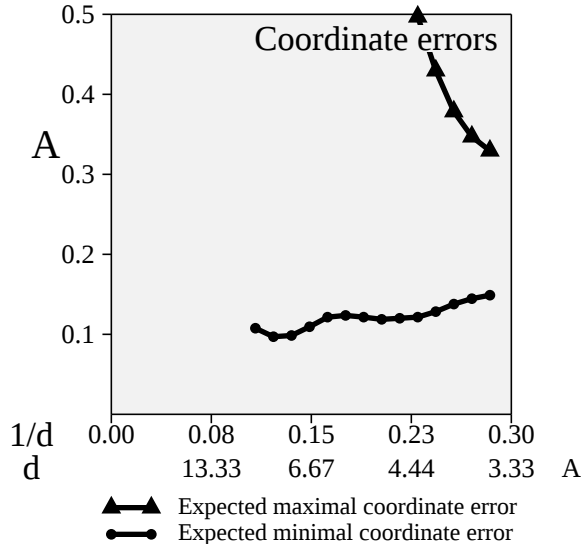
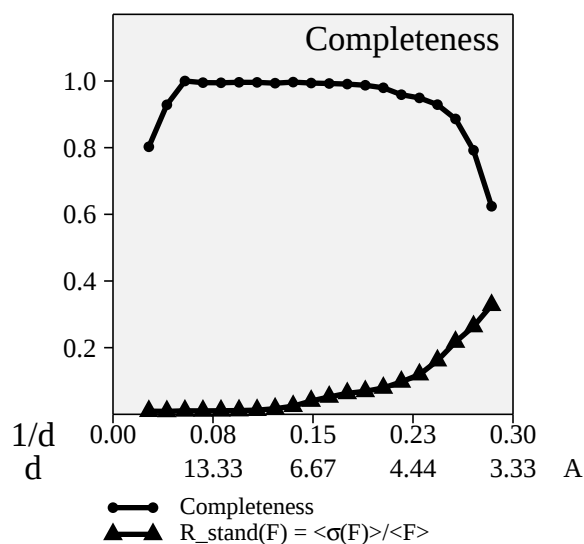
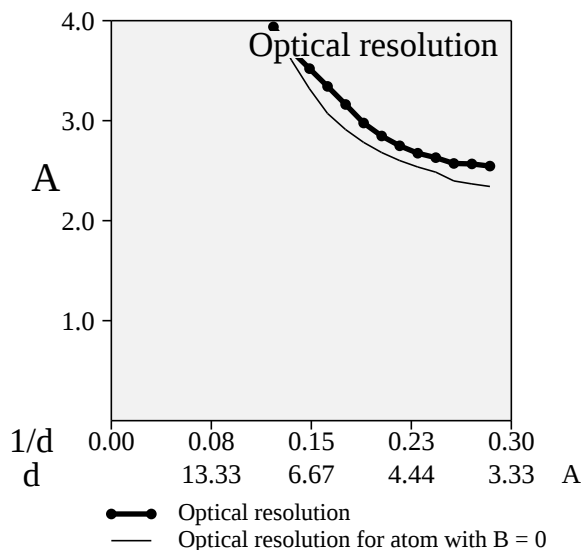
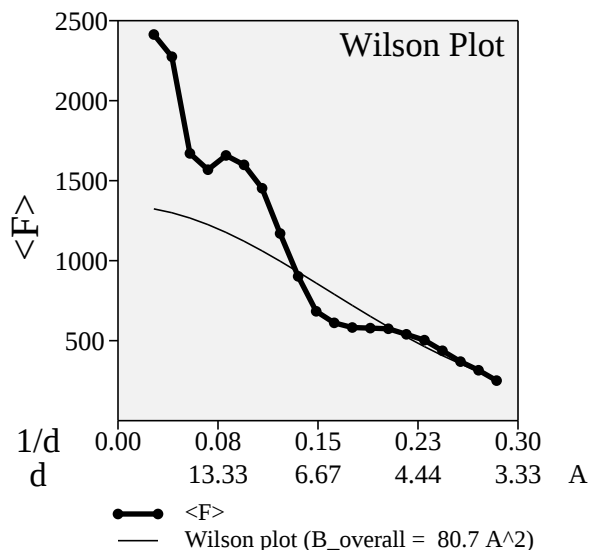
Anisothermal Scaling (Beta):

4.4900 5.6745 4.2389 -0.0000 -0.0000 -0.0000

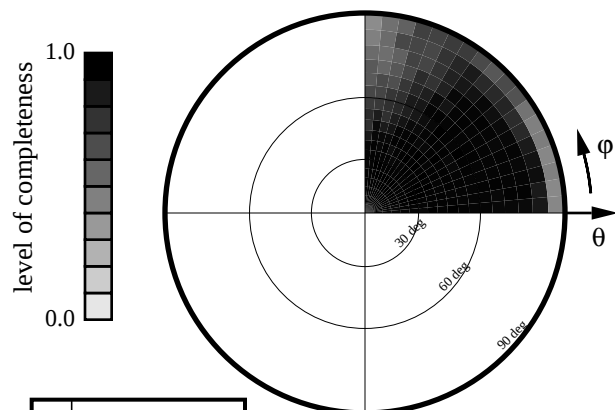
Solvent correction – Ks,Bs: 0.570 250.448

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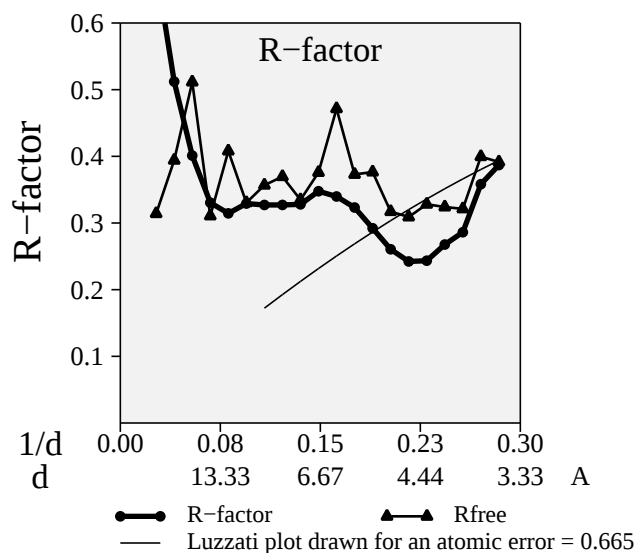


Stereographic projection of the averaged radial completeness



	θ	ϕ
h	90.00	0.00
k	90.00	90.00
l	0.00	0.00

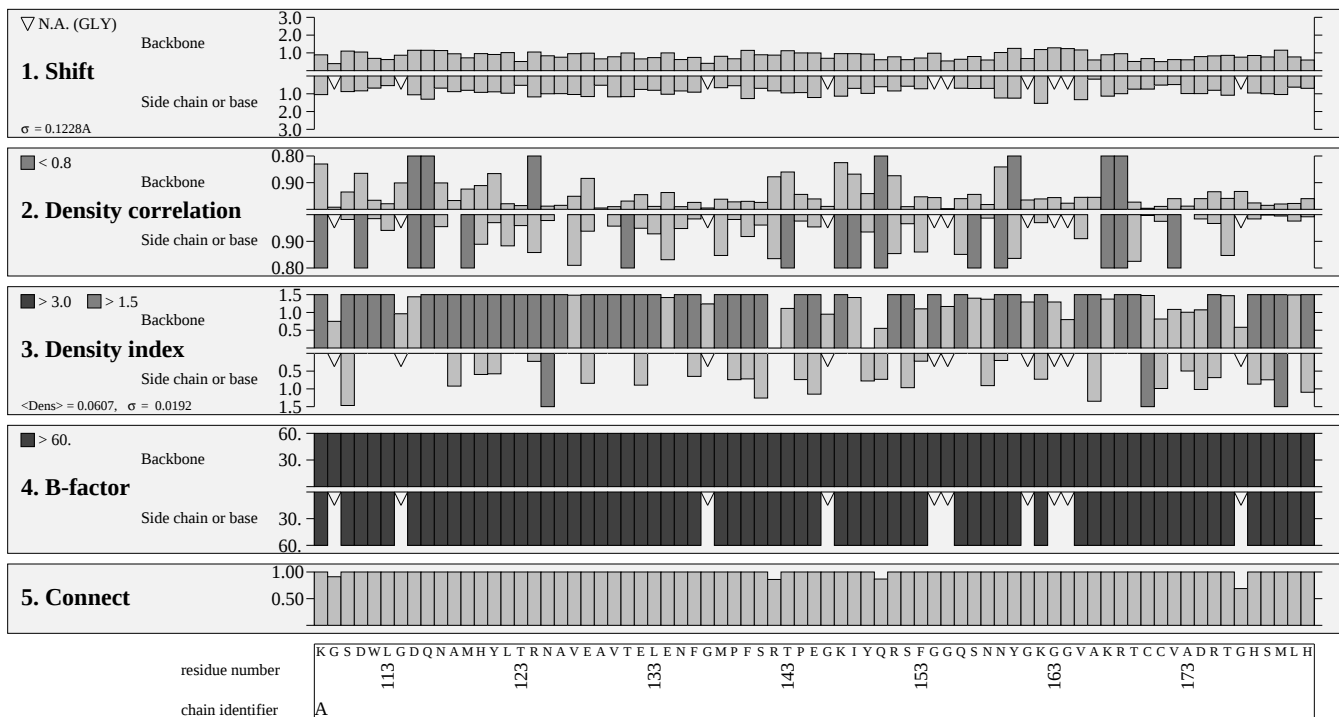
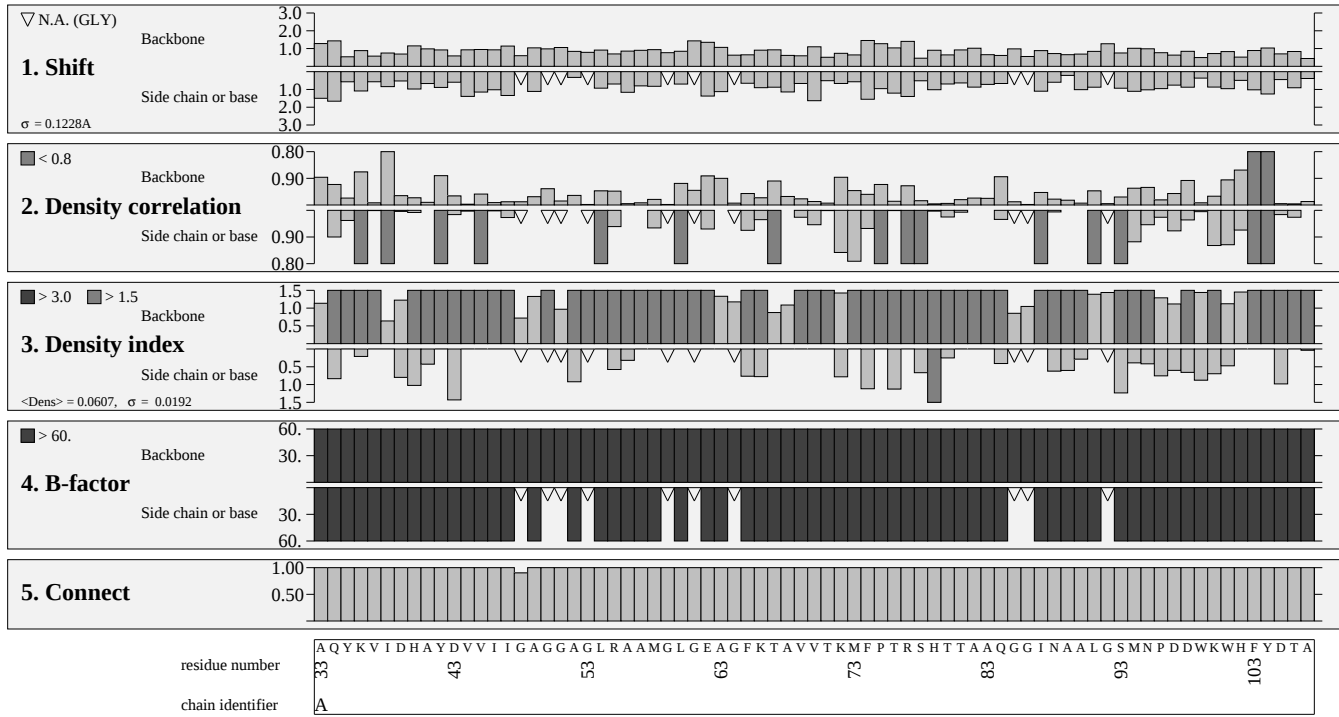
polar coordinates of the crystallographical axes



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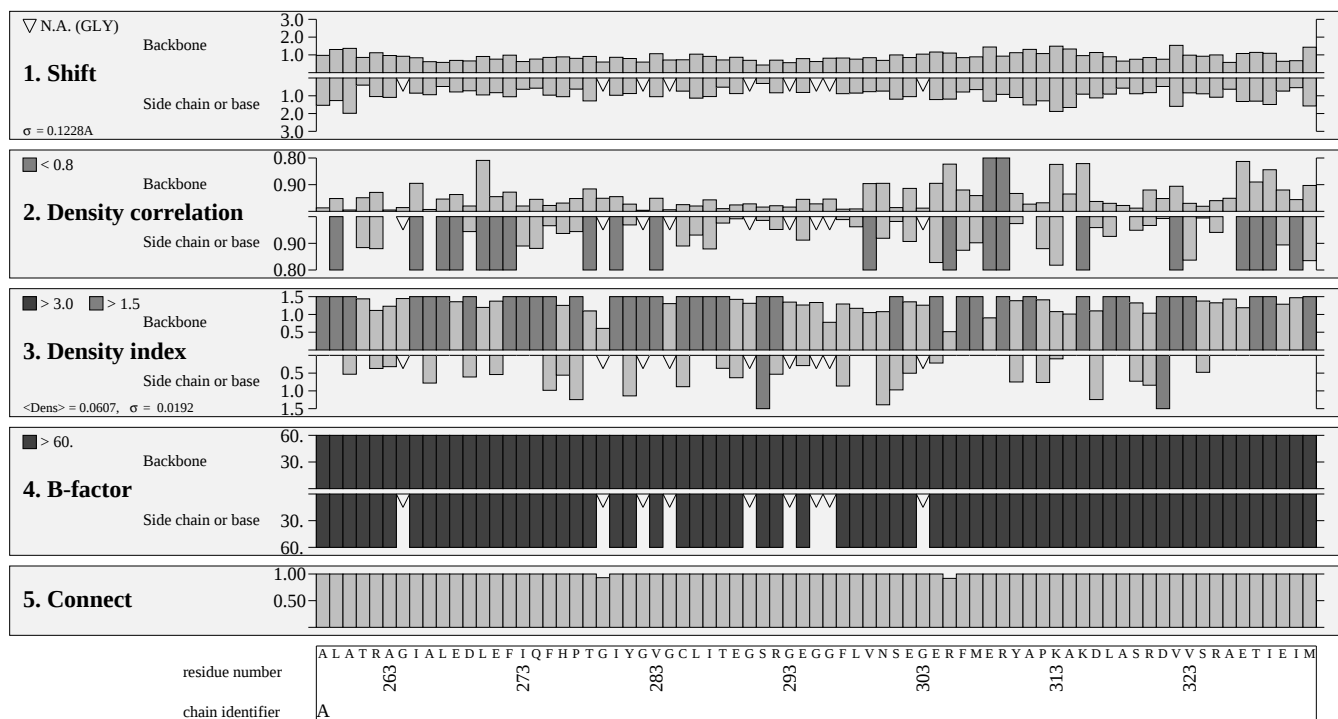
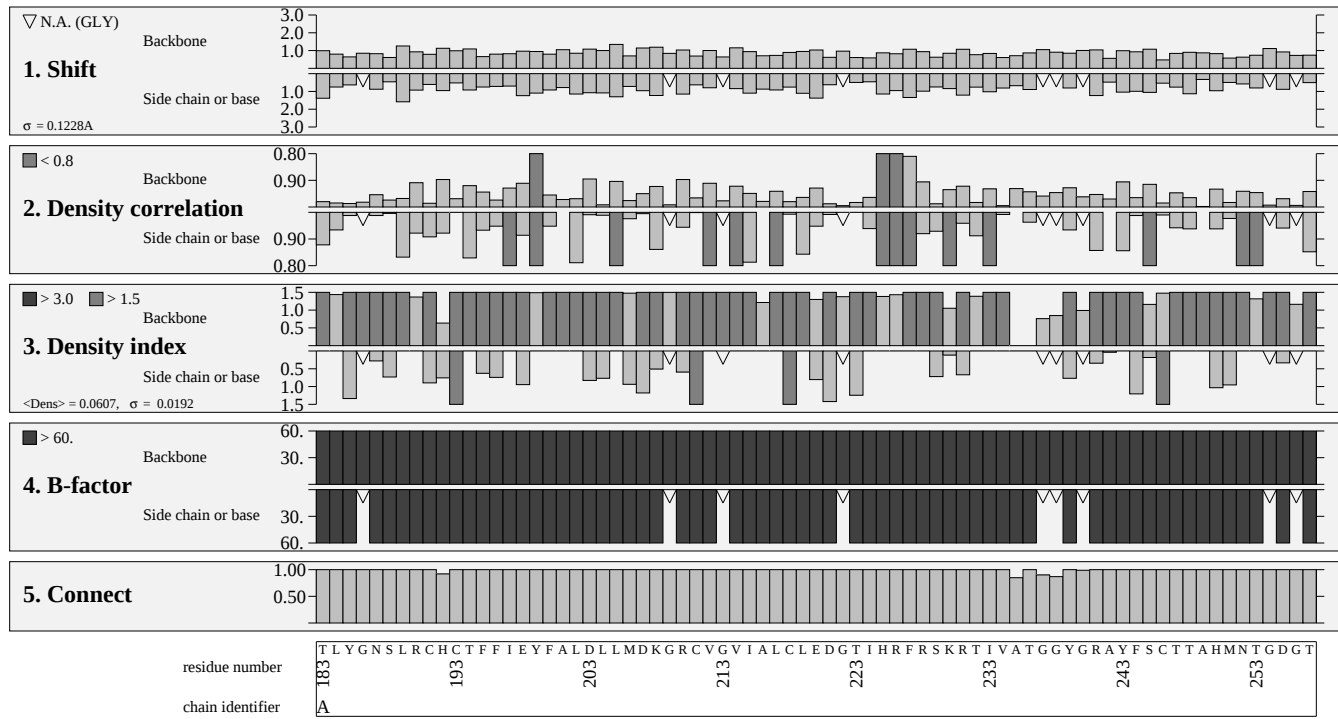
Local estimation



Structure Factor Check

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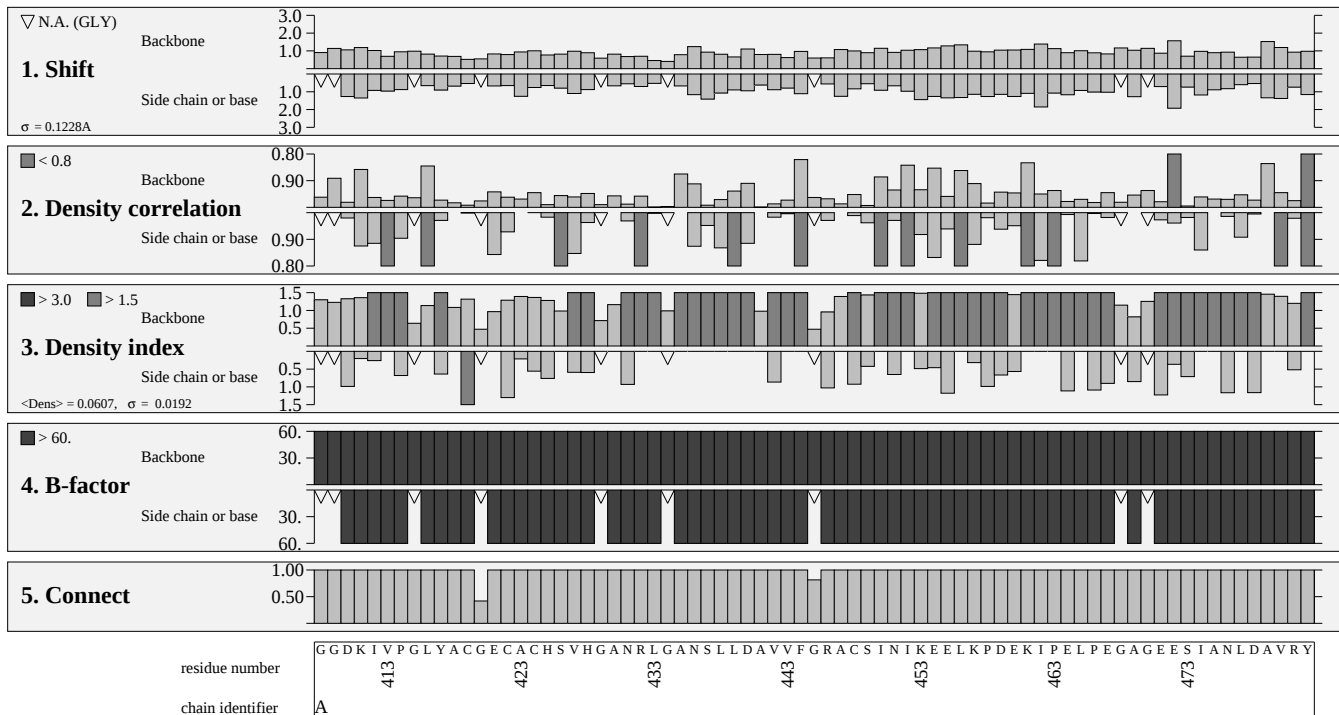
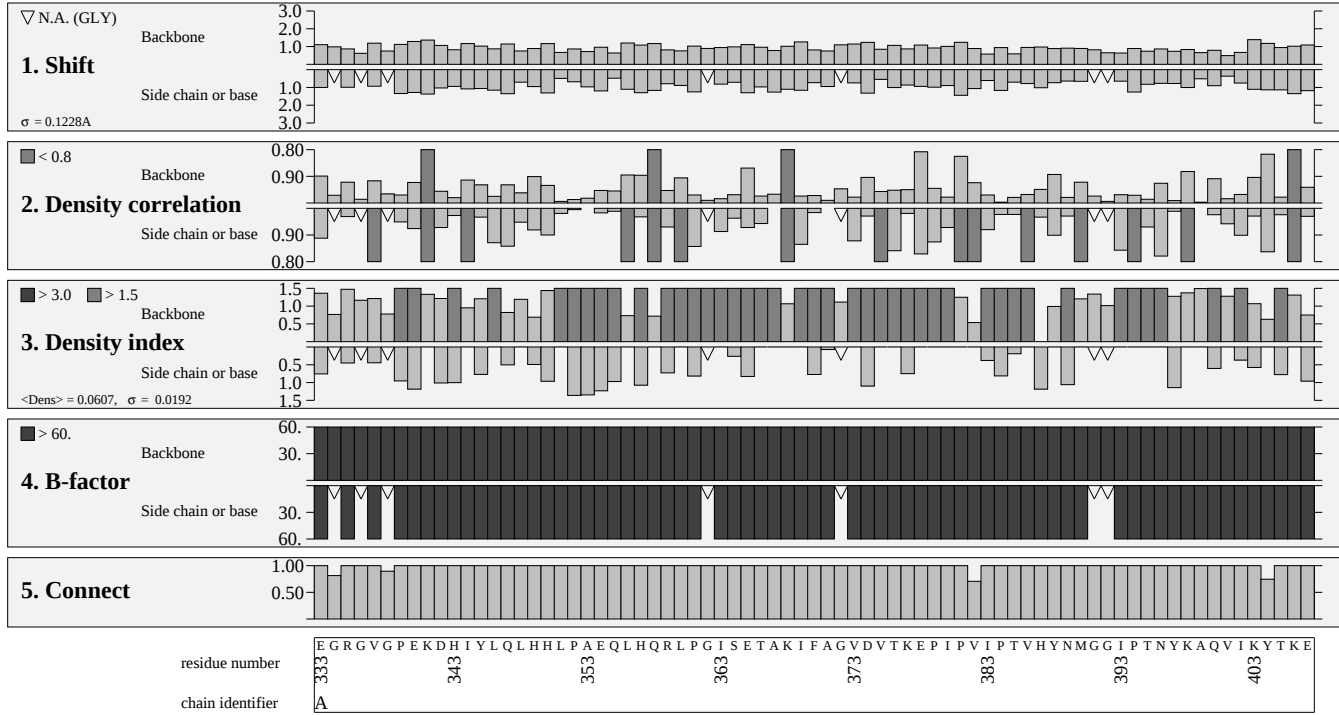
Local estimation (2)



Structure Factor Check

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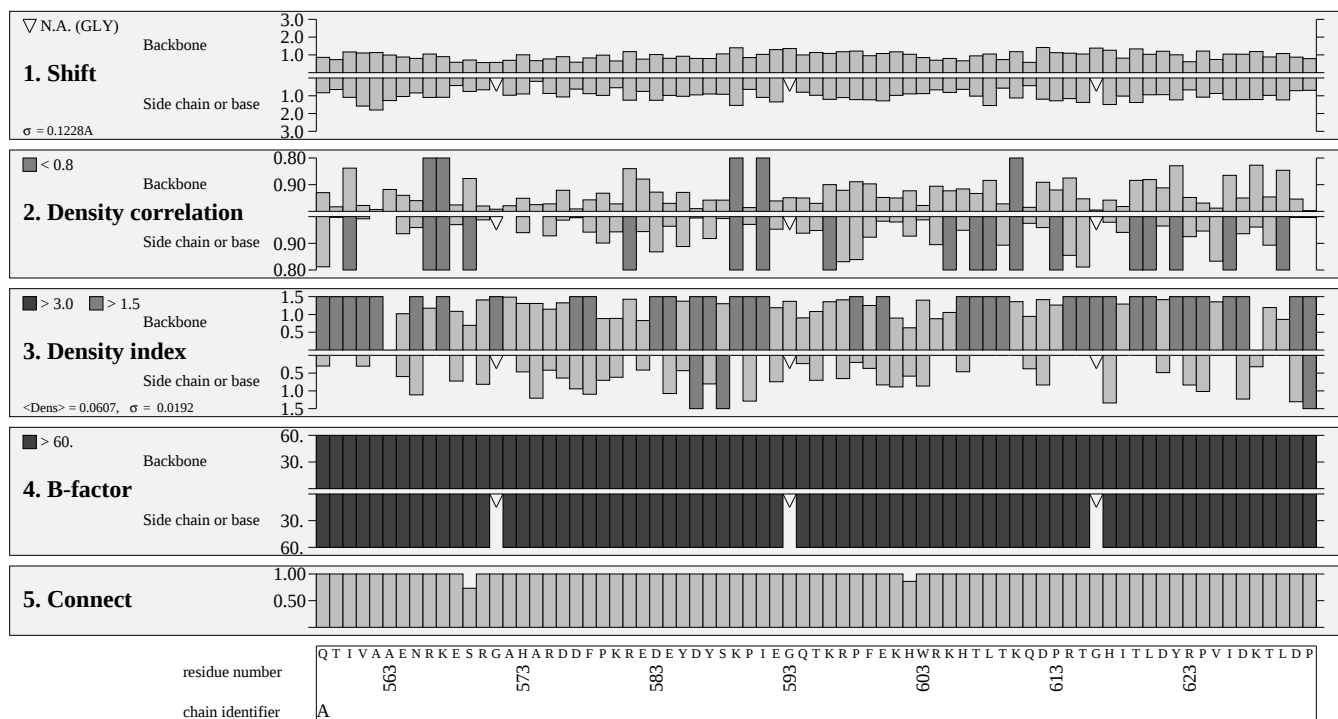
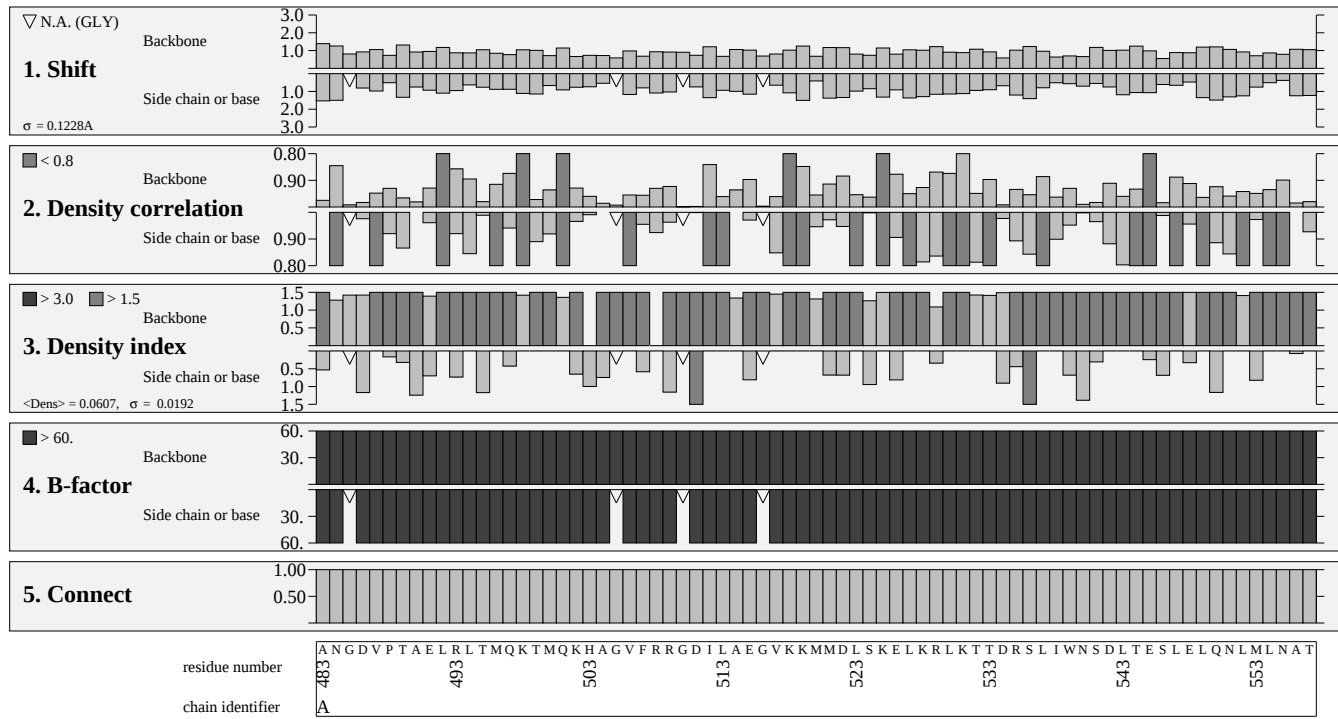
Local estimation (3)



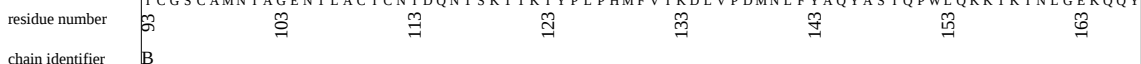
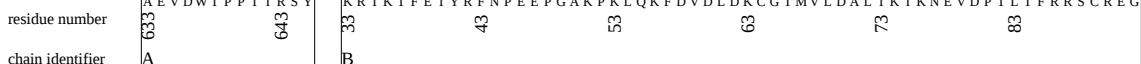
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Local estimation (4)



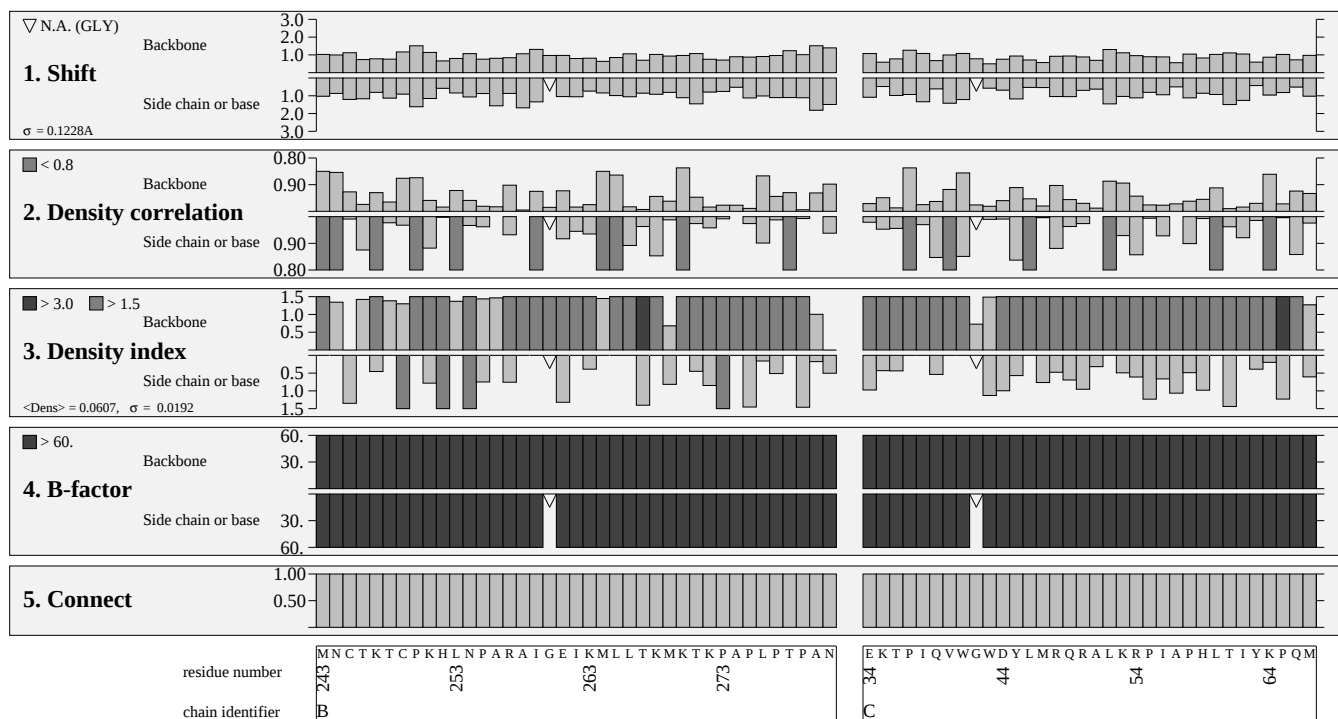
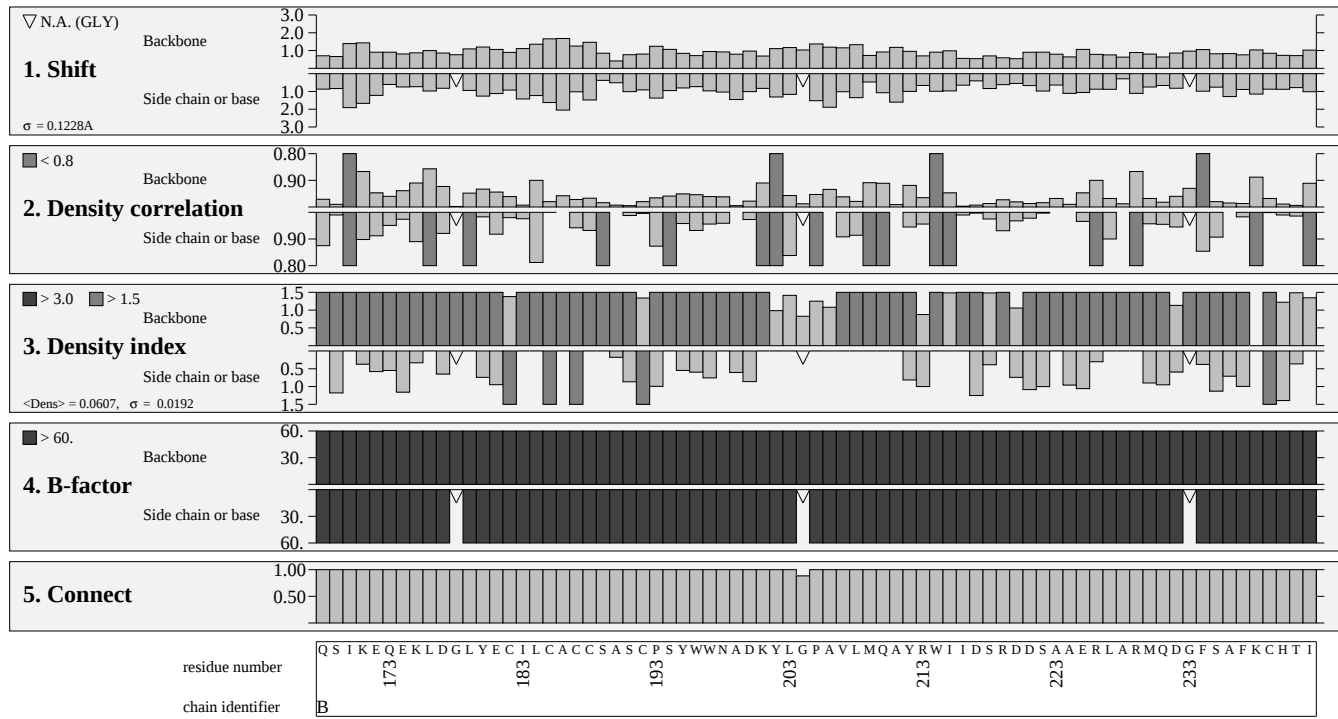
Local estimation (5)



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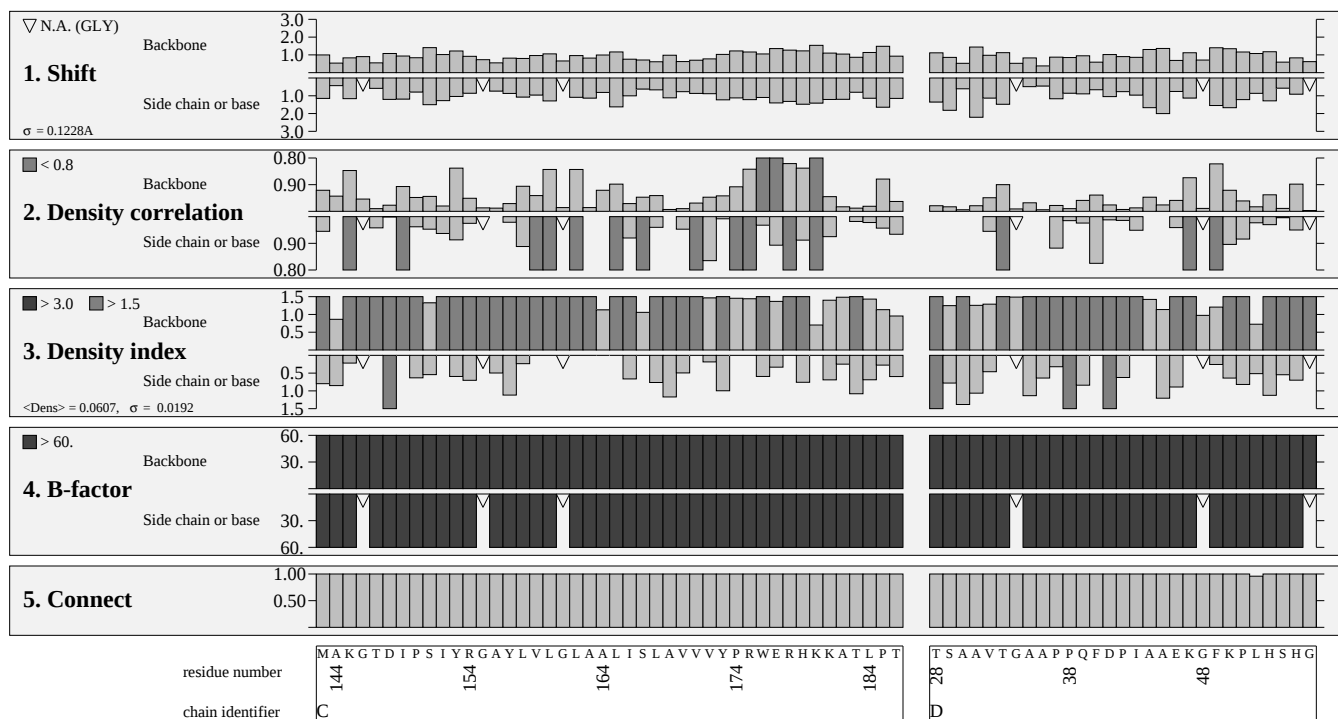
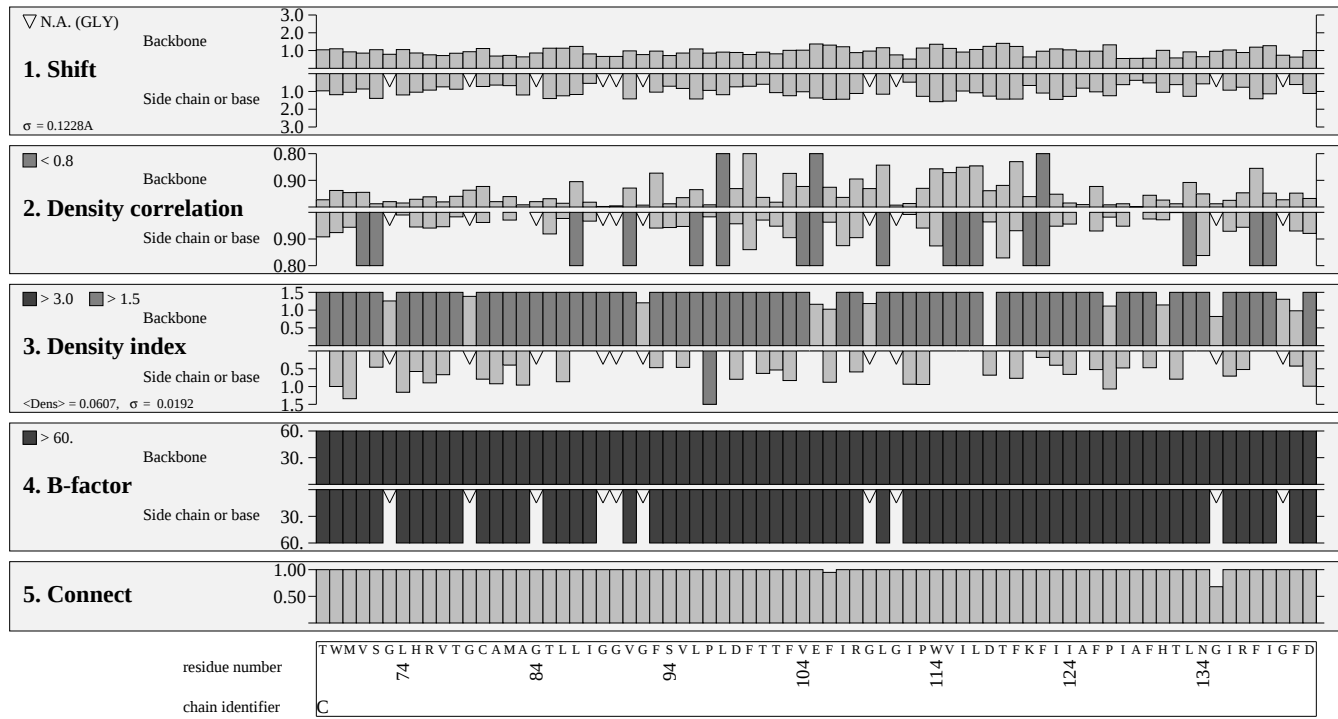
Local estimation (6)



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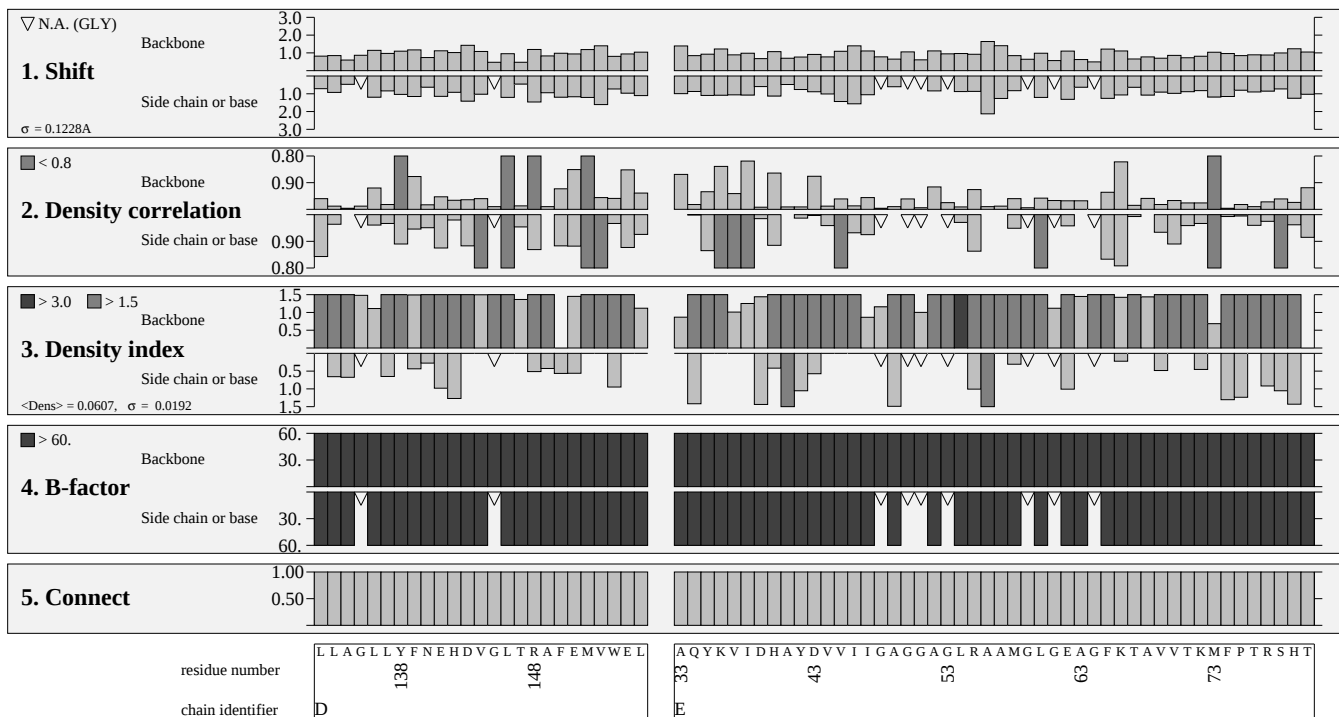
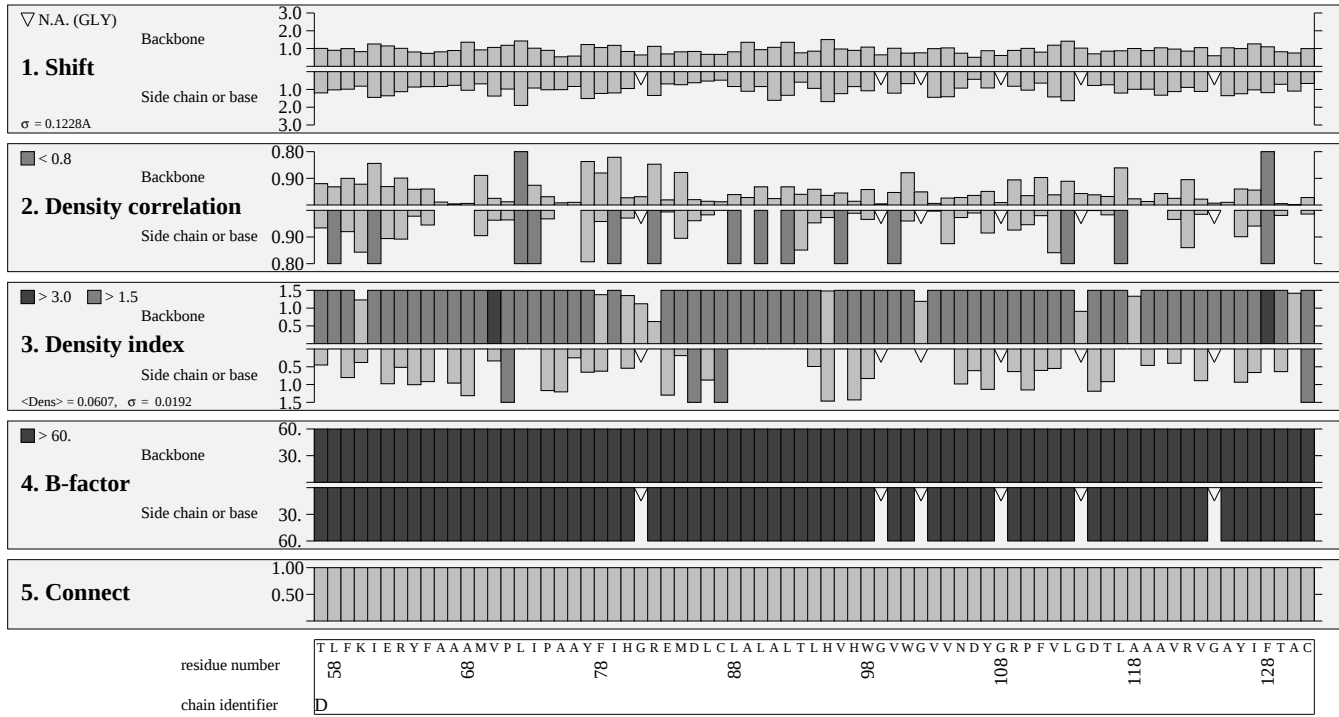
Local estimation (7)



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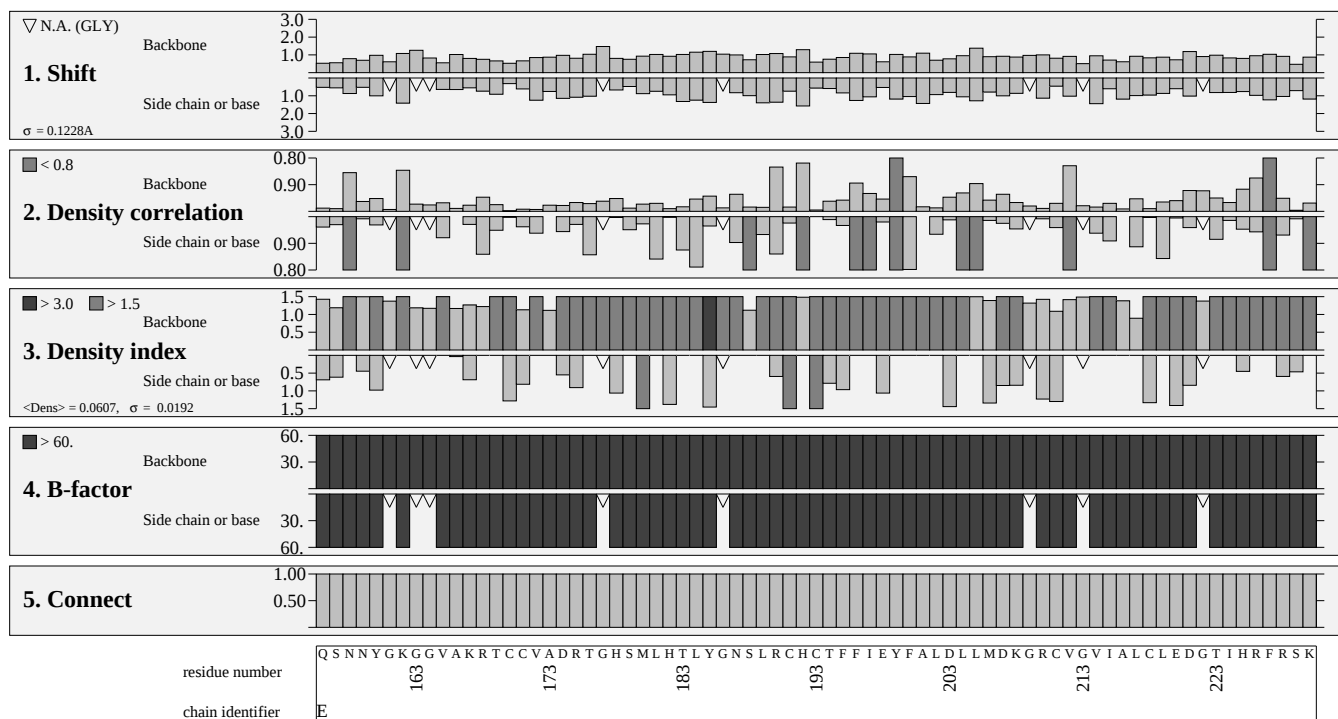
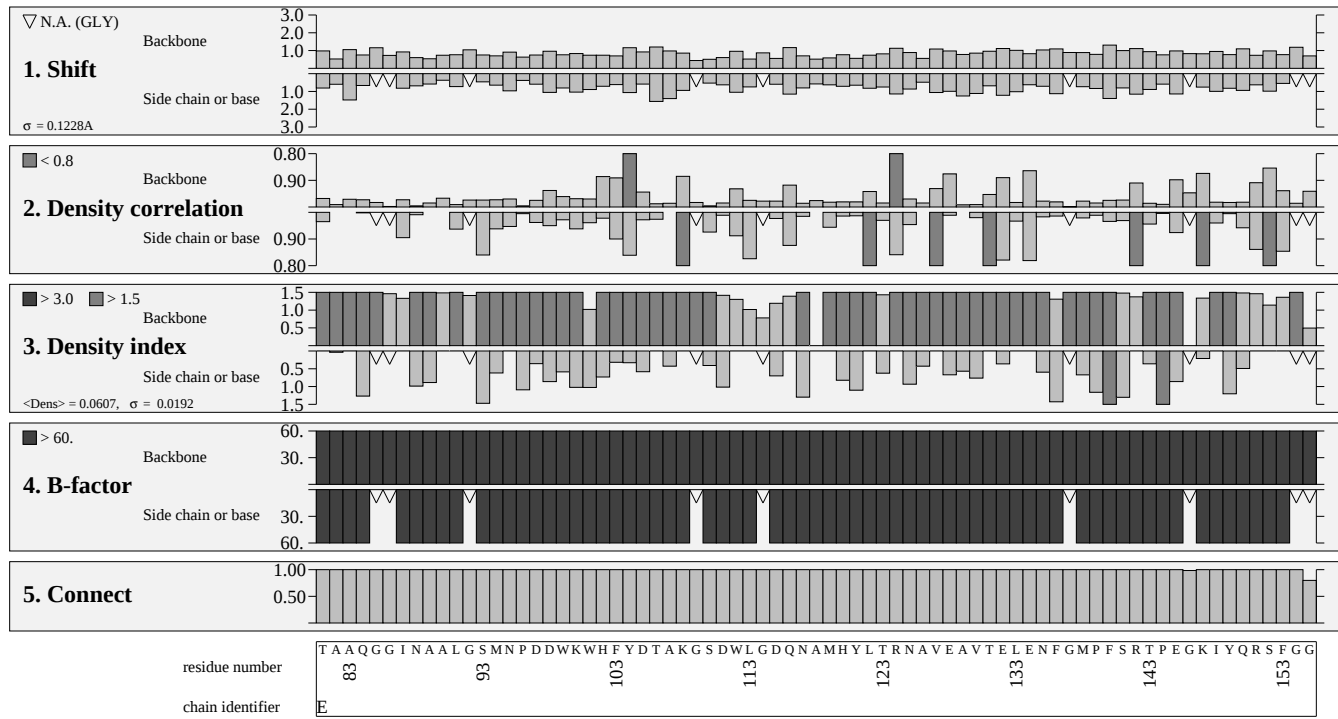
Local estimation (8)



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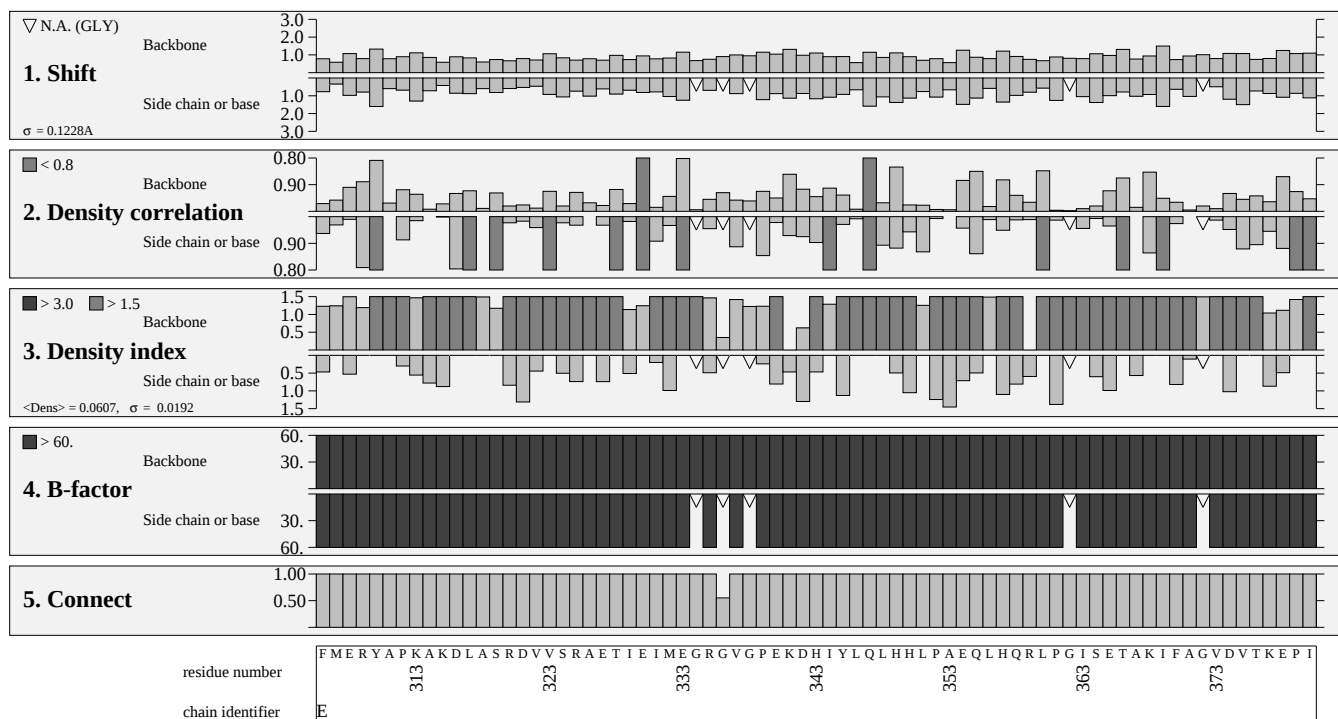
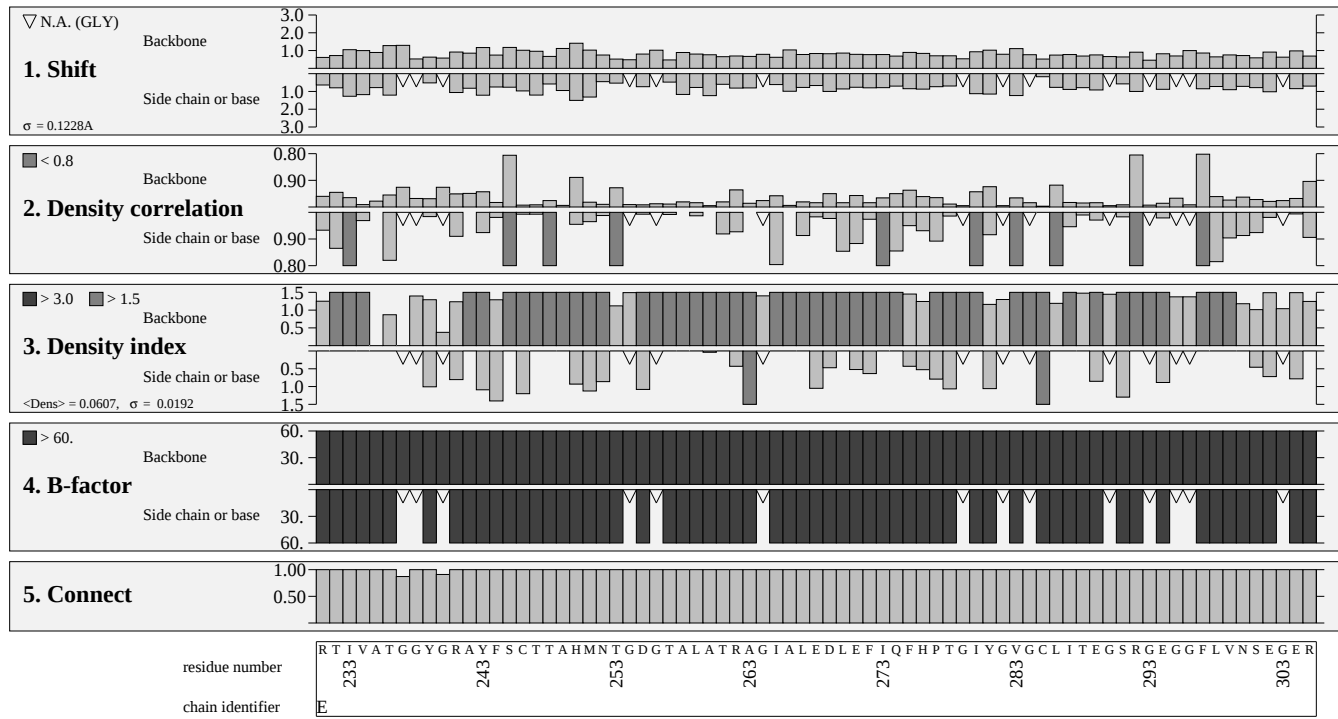
Local estimation (9)



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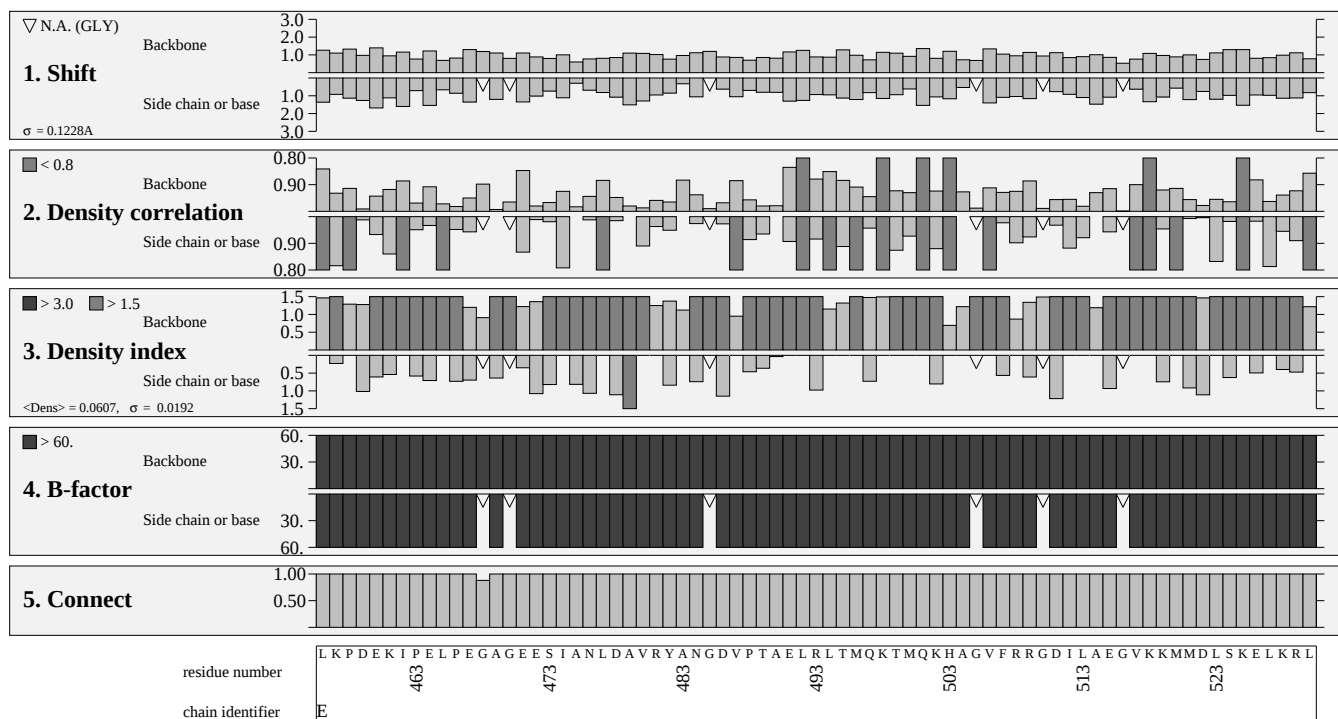
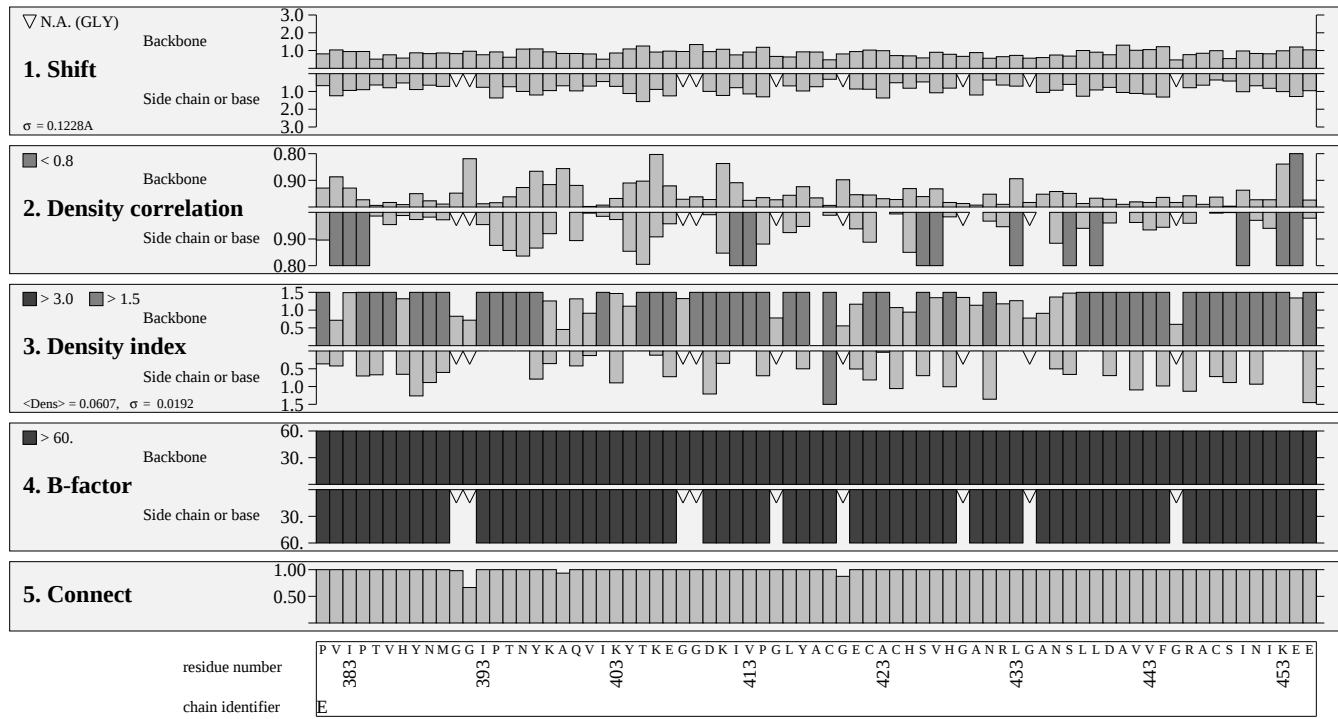
Local estimation (10)



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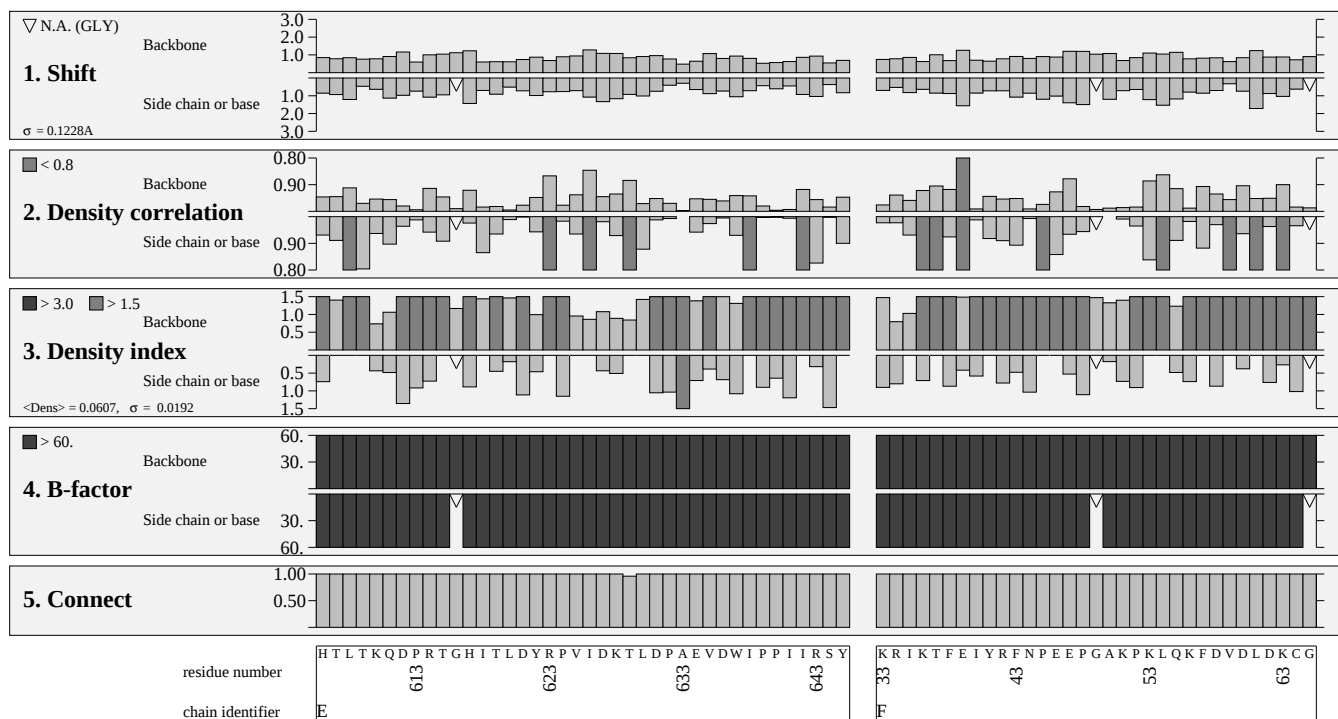
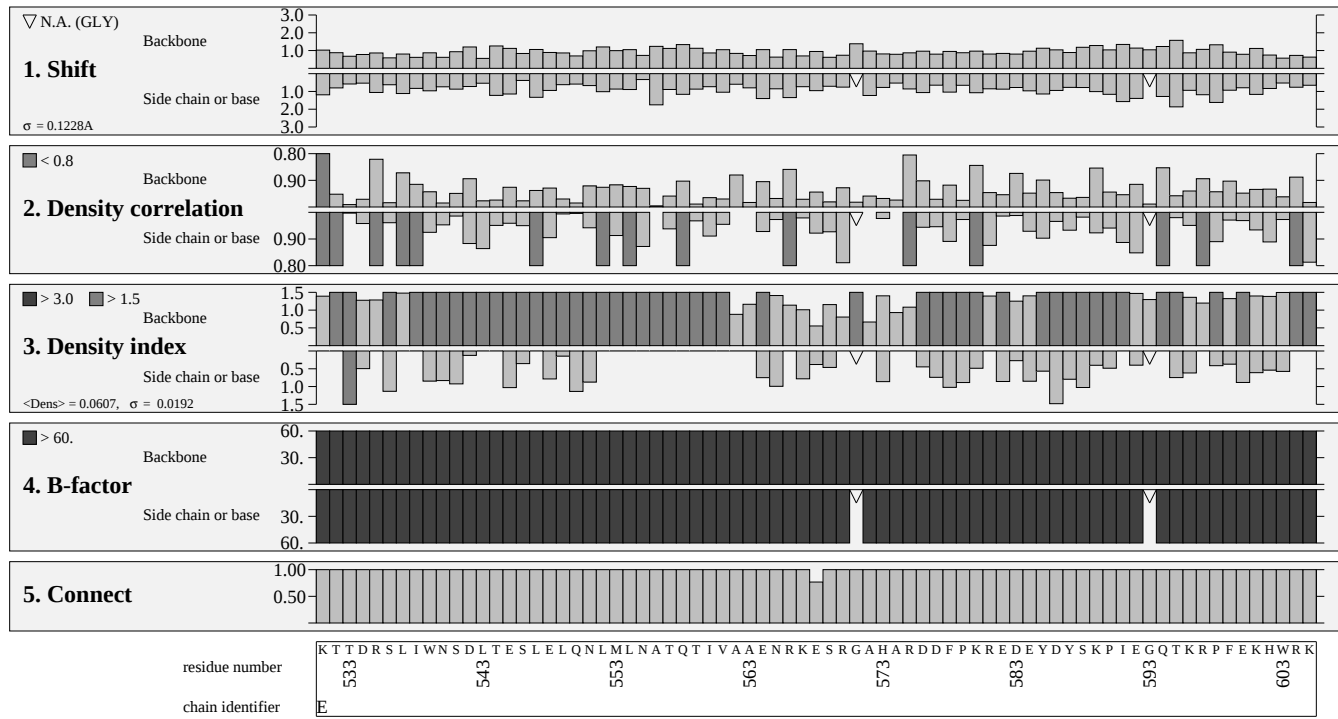
Local estimation (11)



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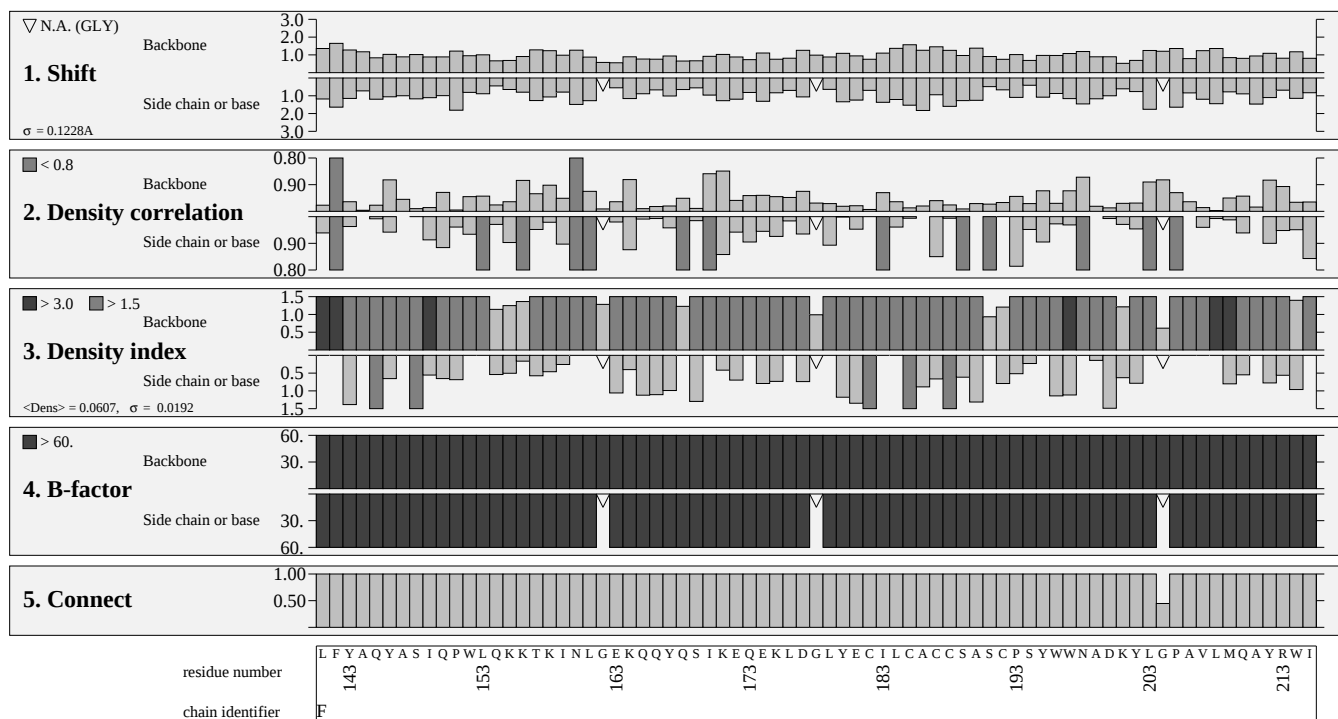
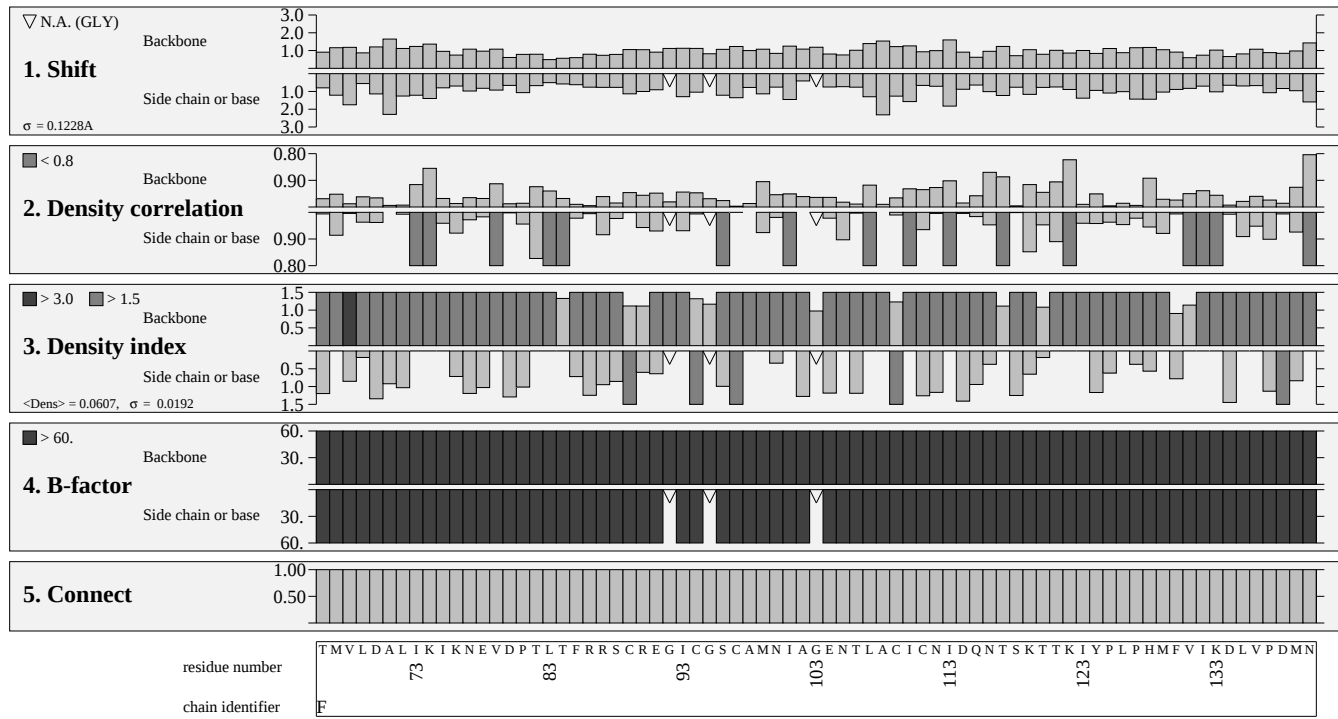
Local estimation (12)



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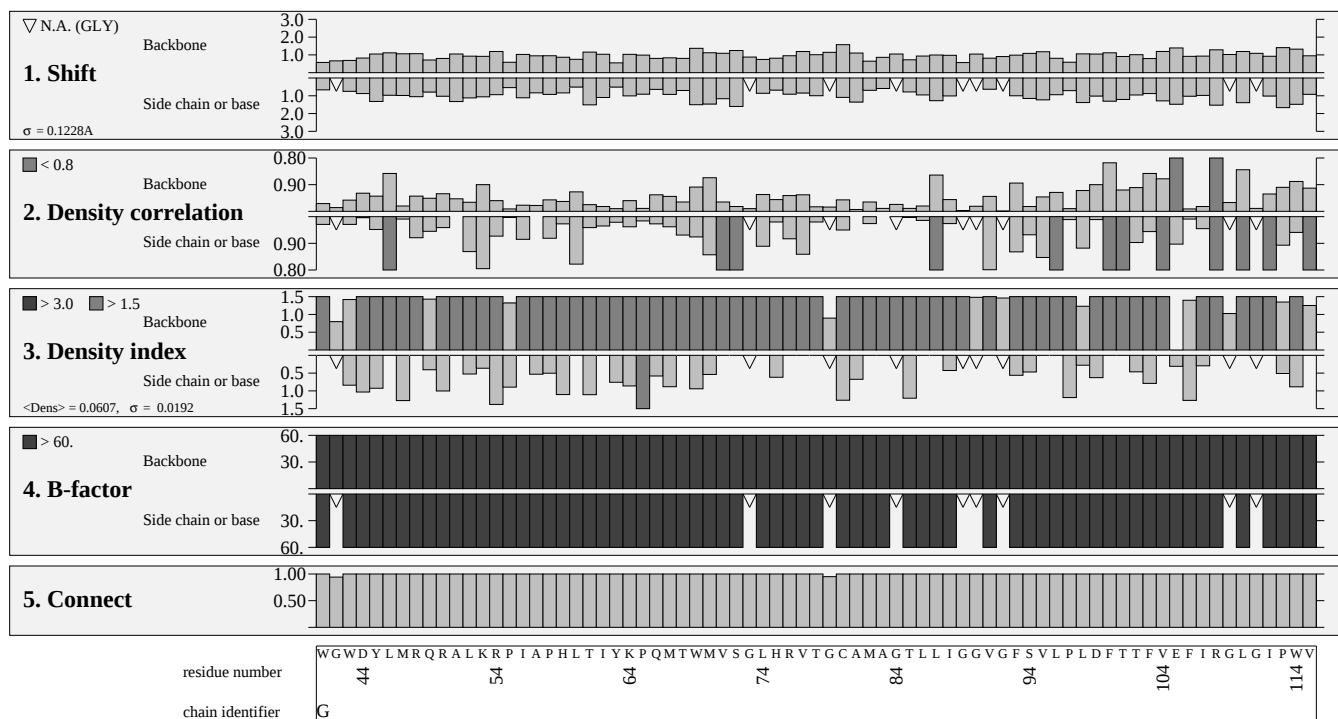
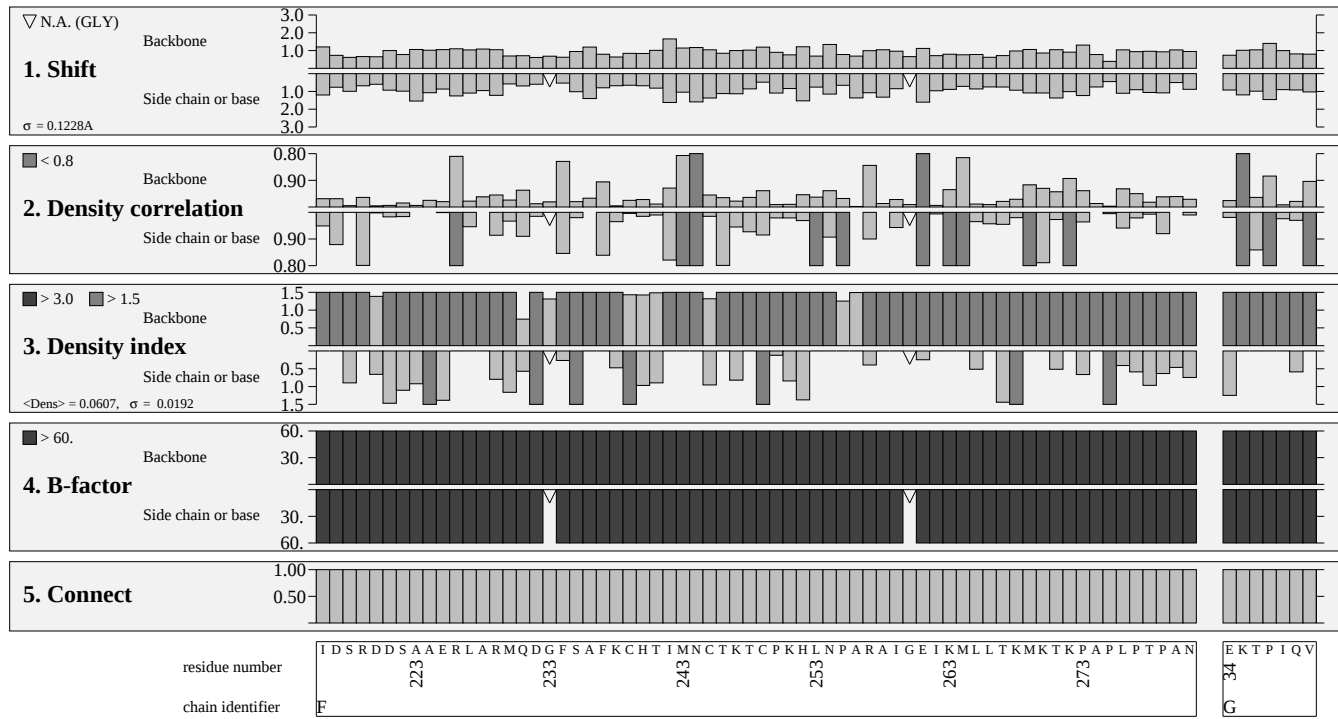
Local estimation (13)



Structure Factor Check

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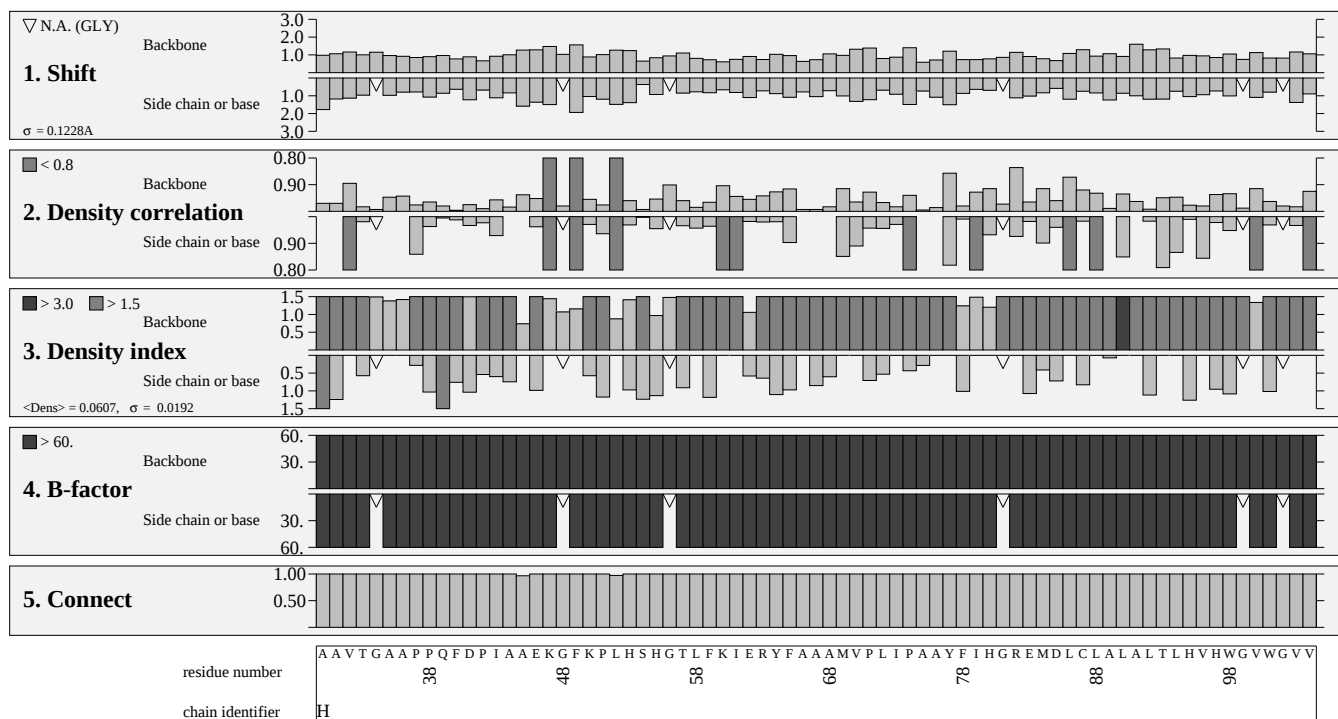
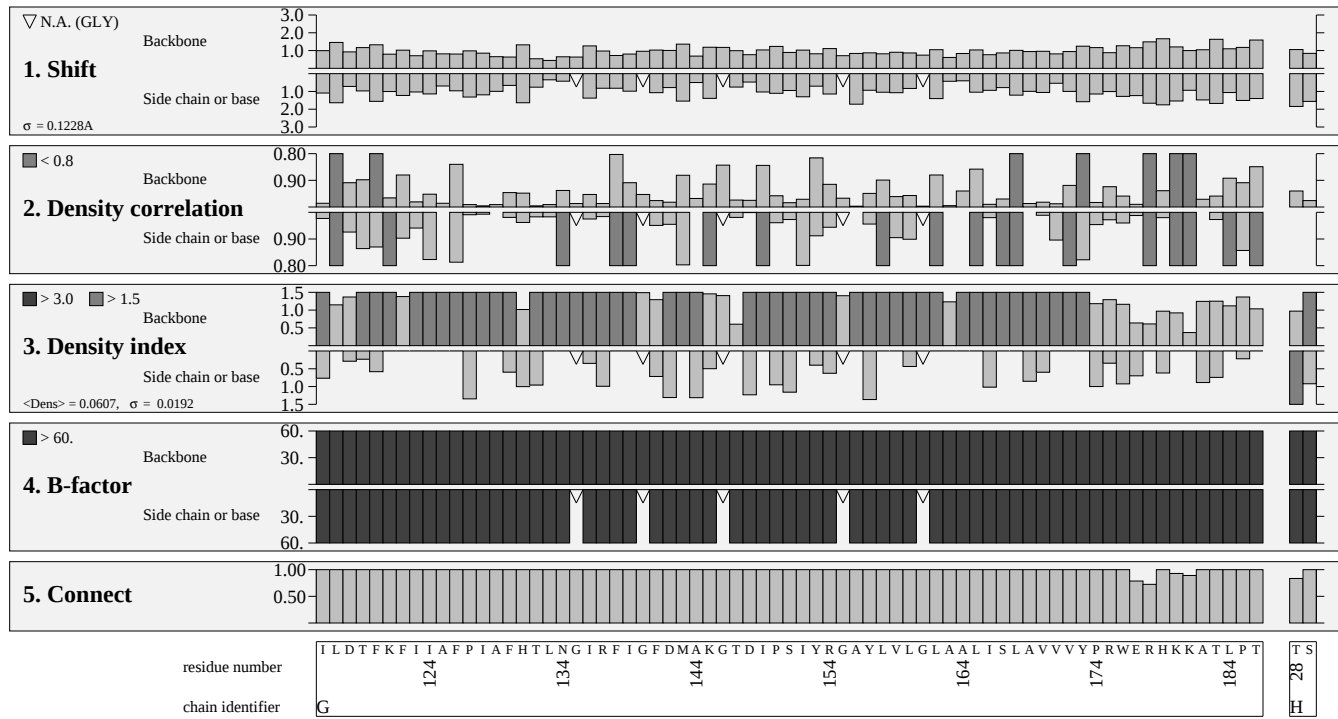
Local estimation (14)



Structure Factor Check

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Local estimation (15)



Structure Factor Check

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Local estimation (16)

