specRQC: Spectral Unmixing Quality Control Report

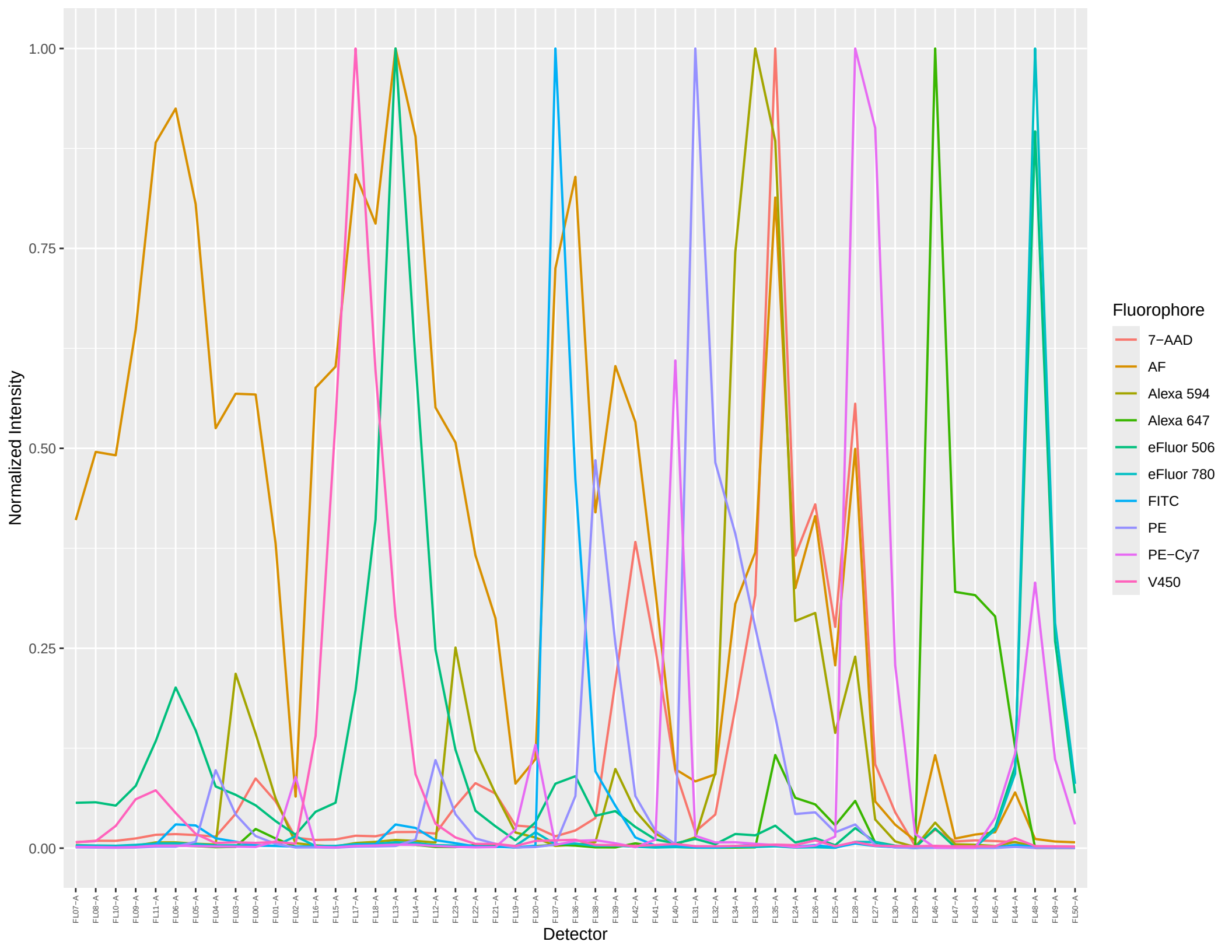
Generated on: 2025−12−27 11:17:05.529029

Files Processed: 2

Total Markers: 10

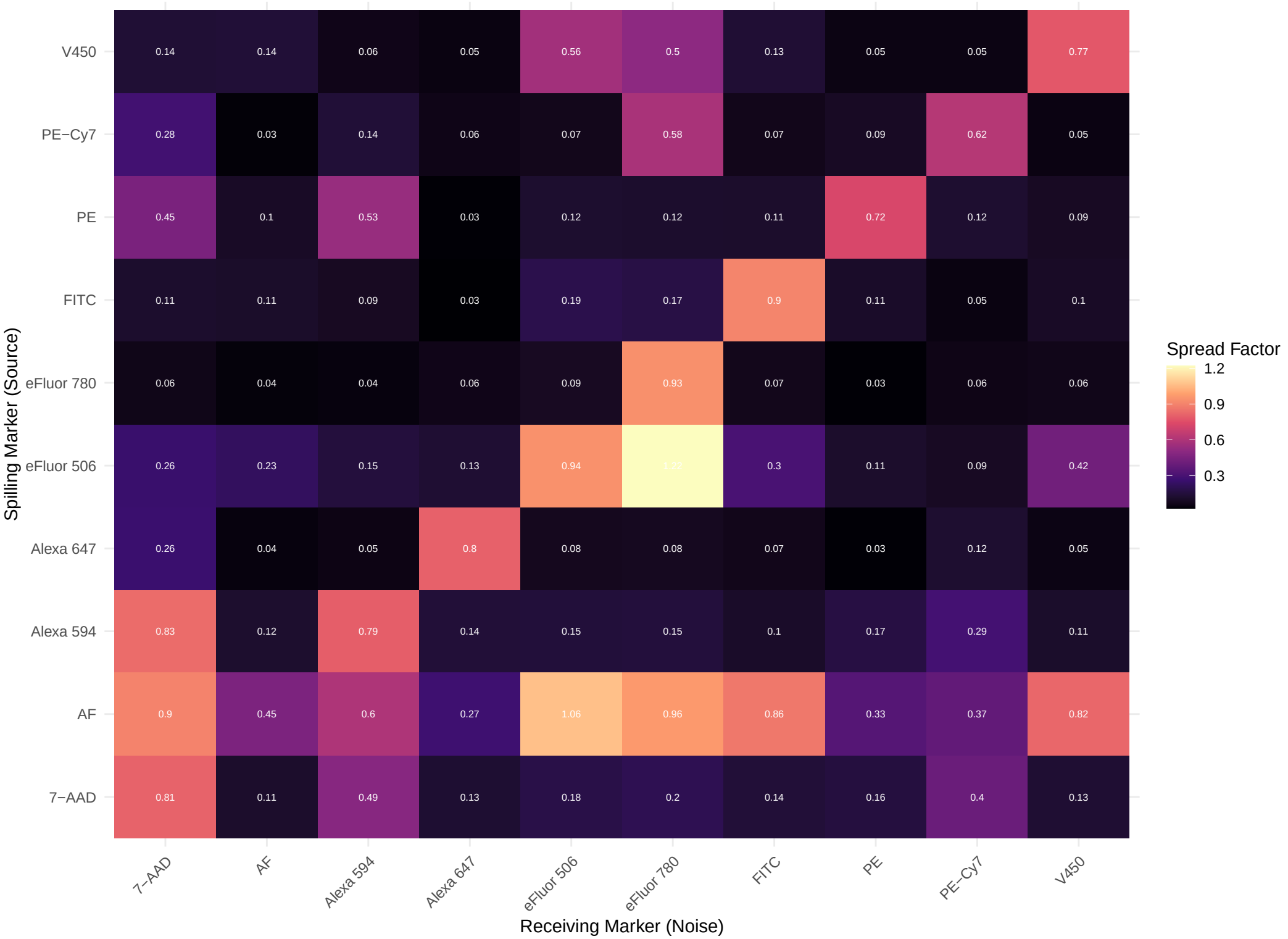
Global Median RRMSE: 0.36

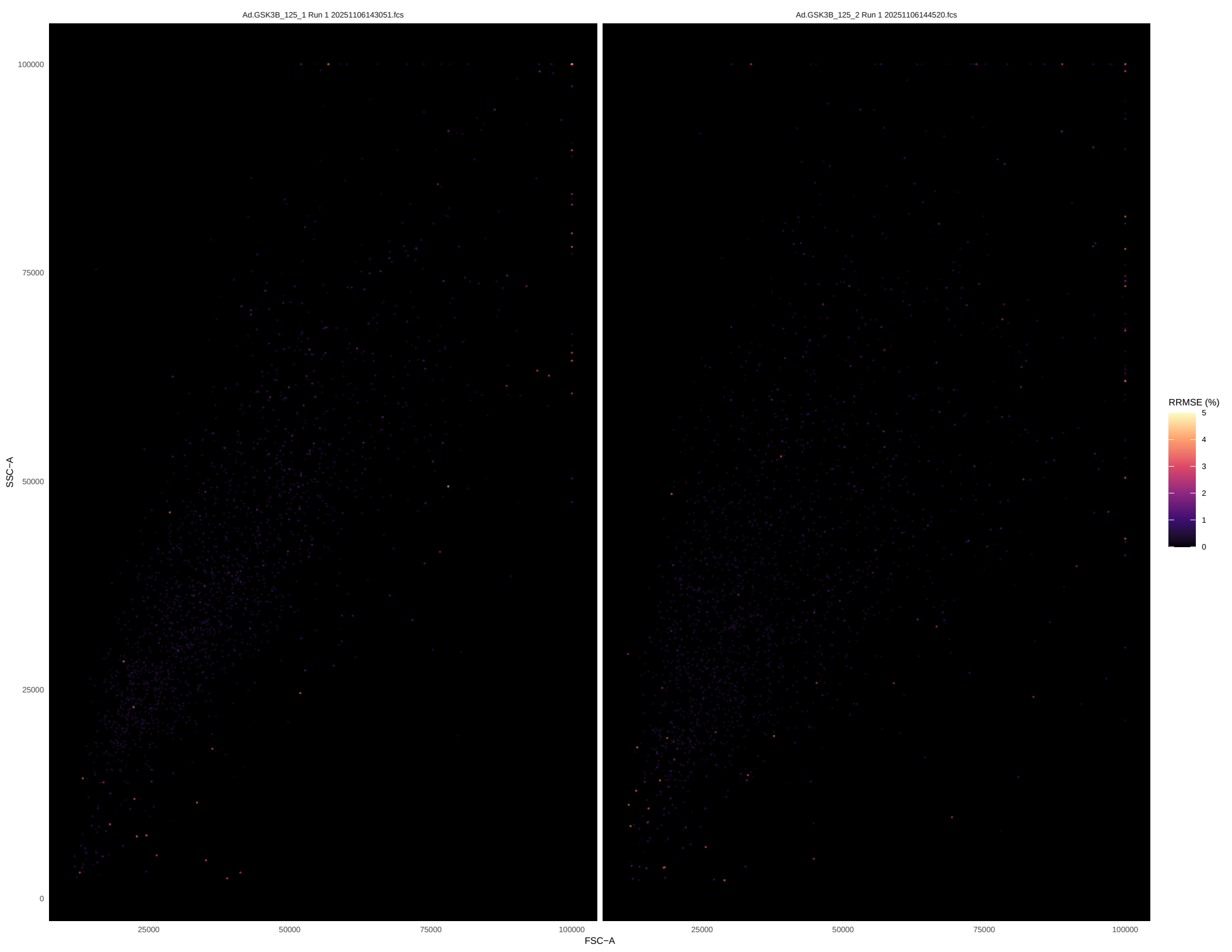
Global Mean RRMSE: 0.5%

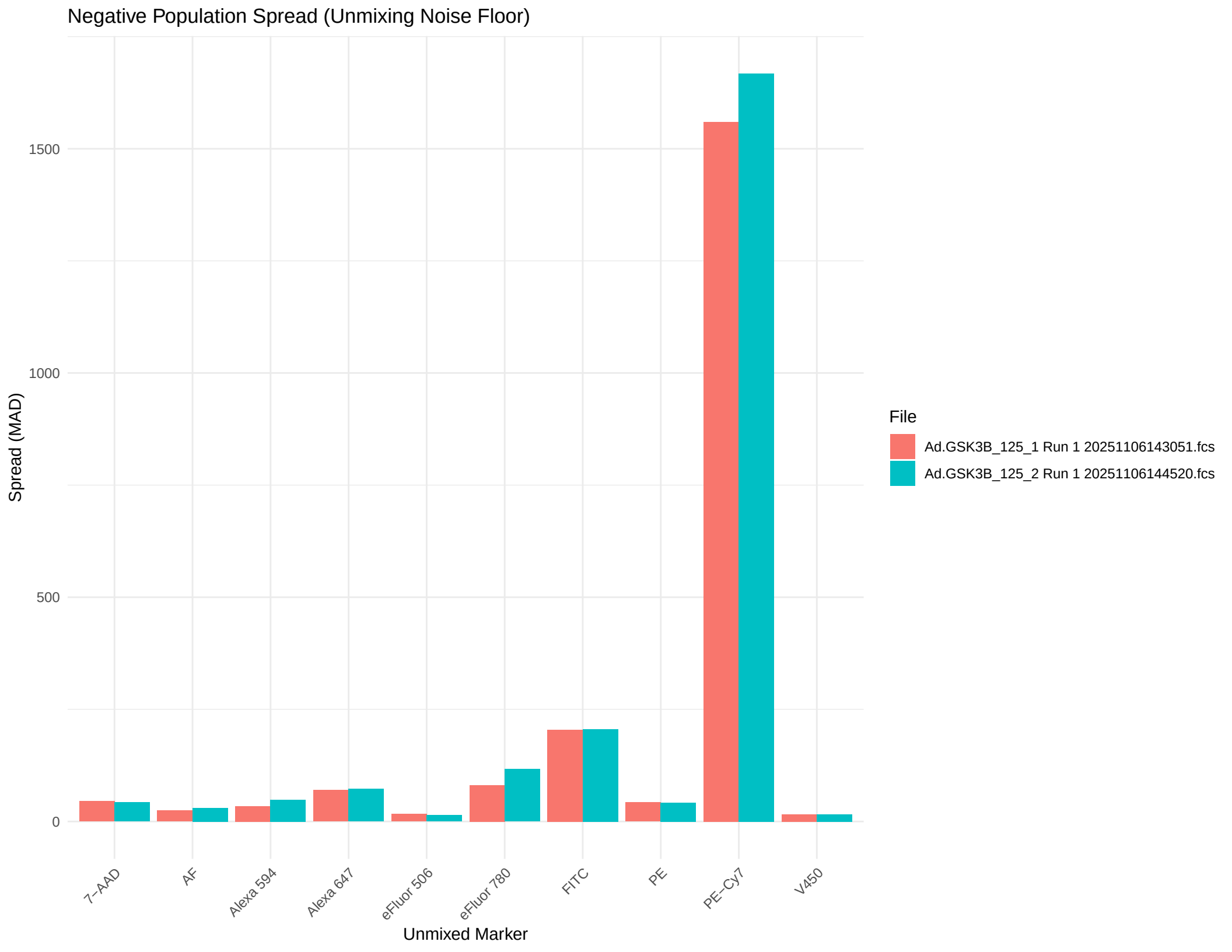

1.00
0.75
0.50
0.25
0.00
Normalized Intensity
FL07−A
FL08−A
FL10−A
FL09−A
FL11−A
FL06−A
FL05−A
FL04−A
FL03−A
FL00−A
FL01−A
FL02−A
FL16−A
FL15−A
FL17−A
FL18−A
FL13−A
FL14−A
FL12−A
FL23−A
FL22−A
FL21−A
FL19−A
FL20−A
FL37−A
FL36−A
FL38−A
FL39−A
FL42−A
FL41−A
FL40−A
FL31−A
FL32−A
FL34−A
FL33−A
FL35−A
FL24−A
FL26−A
FL25−A
FL28−A
FL27−A
FL30−A
FL29−A
FL46−A
FL47−A
FL43−A
FL45−A
FL44−A
FL48−A
FL49−A
FL50−A
Detector
Fluorophore
7−AAD
AF
Alexa 594
Alexa 647
eFluor 506
eFluor 780
FITC
PE
PE−Cy7
V450

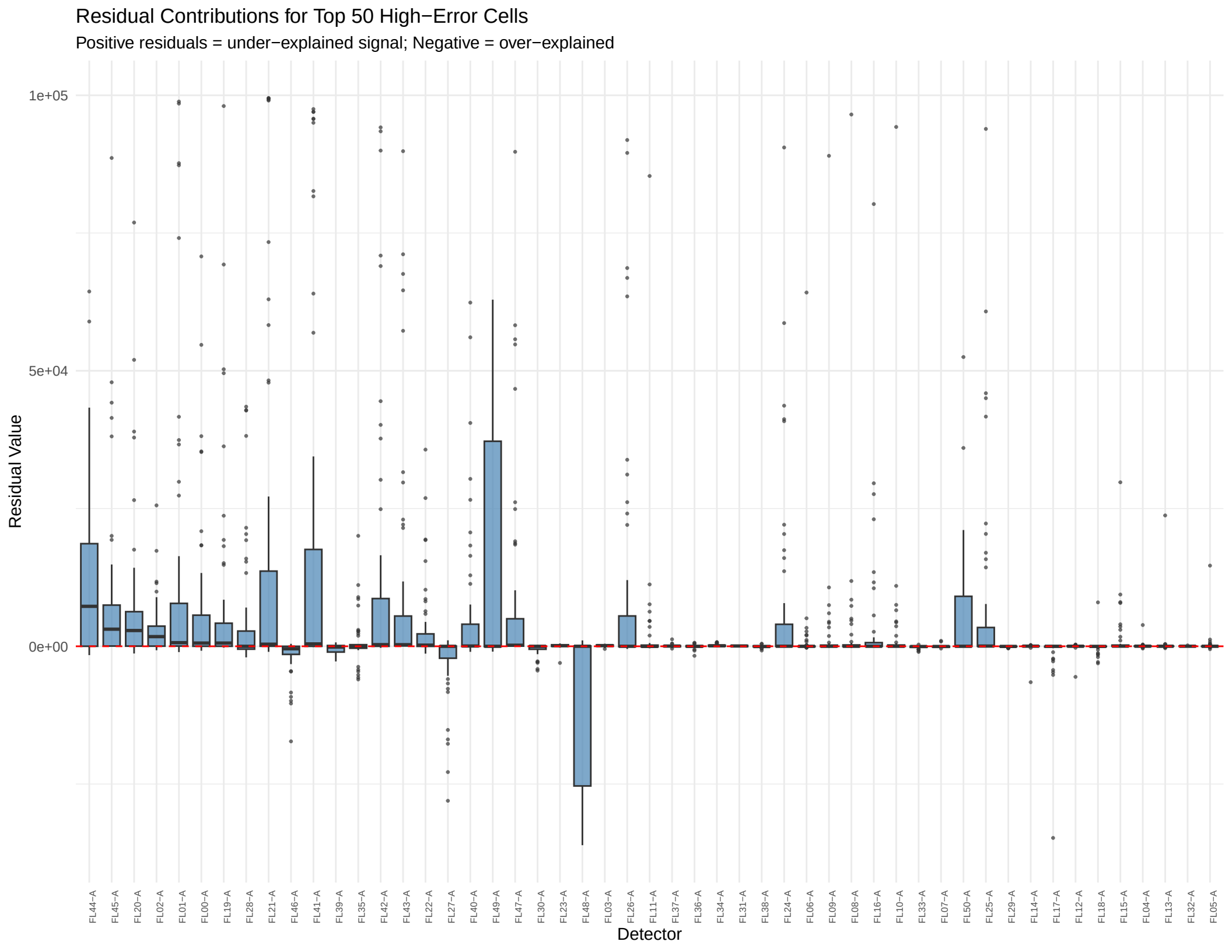
Spectral Spread Matrix

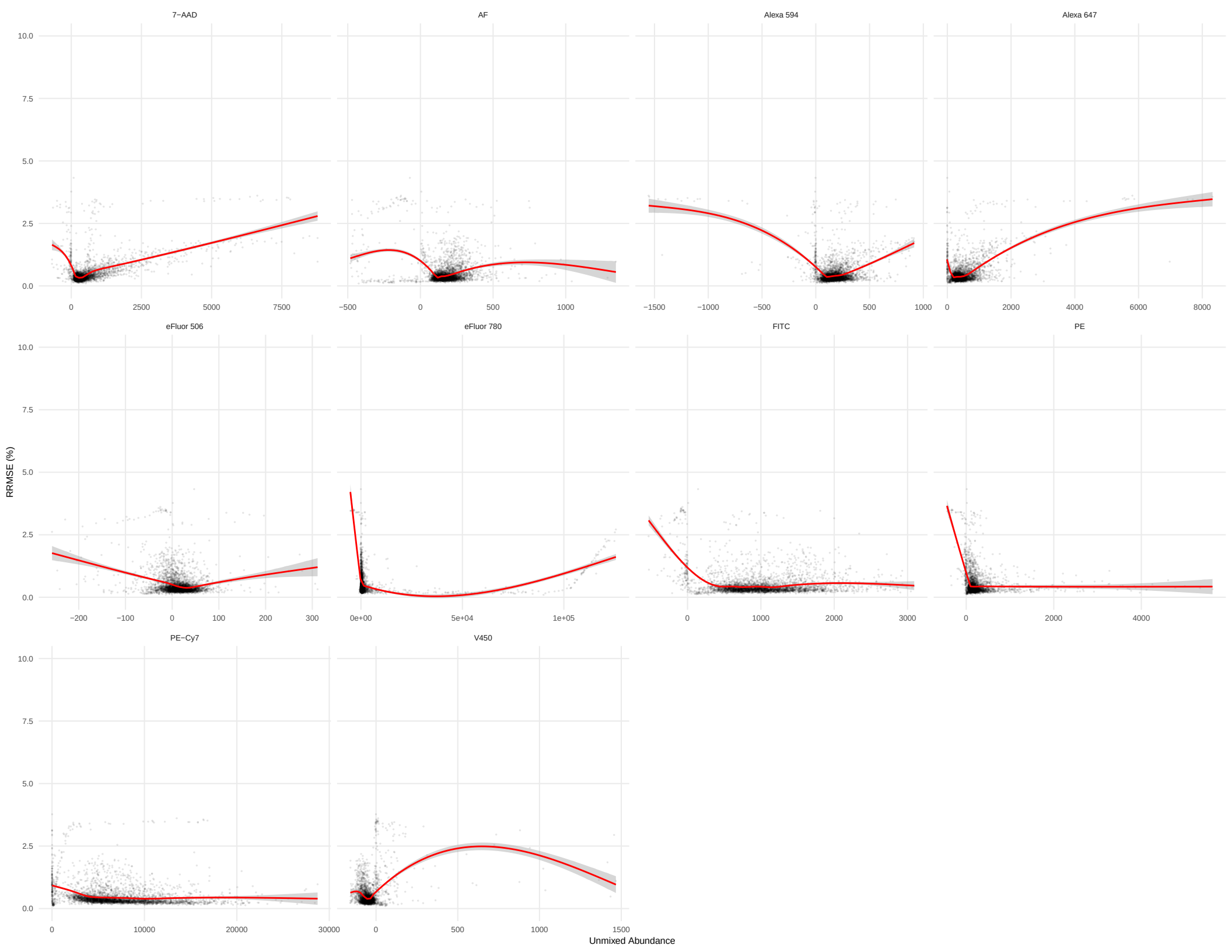
Quantifies how noise from marker Y spreads into marker X




Ad.GSK3B_125_1 Run 1 20251106143051.fcs
Ad.GSK3B_125_2 Run 1 20251106144520.fcs
SSC−A
FSC−A
0
25000
50000
75000
100000
RRMSE (%)
5
4
3
2
1
0


Negative Population Spread (Unmixing Noise Floor)
Spread (MAD)
1500
1000
500
0
7−AAD
AF
Alexa 594
Alexa 647
eFluor 506
eFluor 780
FITC
PE
PE−Cy7
V450
Unmixed Marker
File
Ad.GSK3B_125_1 Run 1 20251106143051.fcs
Ad.GSK3B_125_2 Run 1 20251106144520.fcs


Residual Contributions for Top 50 High−Error Cells
Positive residuals = under−explained signal; Negative = over−explained
Residual Value
1e+05
5e+04
0e+00
Detector
FL44−A
FL45−A
FL20−A
FL02−A
FL01−A
FL00−A
FL19−A
FL28−A
FL21−A
FL46−A
FL41−A
FL39−A
FL35−A
FL42−A
FL43−A
FL22−A
FL27−A
FL40−A
FL49−A
FL47−A
FL30−A
FL23−A
FL48−A
FL03−A
FL26−A
FL11−A
FL37−A
FL36−A
FL34−A
FL31−A
FL38−A
FL24−A
FL06−A
FL09−A
FL08−A
FL16−A
FL10−A
FL33−A
FL07−A
FL50−A
FL25−A
FL29−A
FL14−A
FL17−A
FL12−A
FL18−A
FL15−A
FL04−A
FL13−A
FL32−A
FL05−A


7−AAD
AF
Alexa 594
Alexa 647
eFluor 506
eFluor 780
FITC
PE
PE−Cy7
V450
RRMSE (%)
Unmixed Abundance