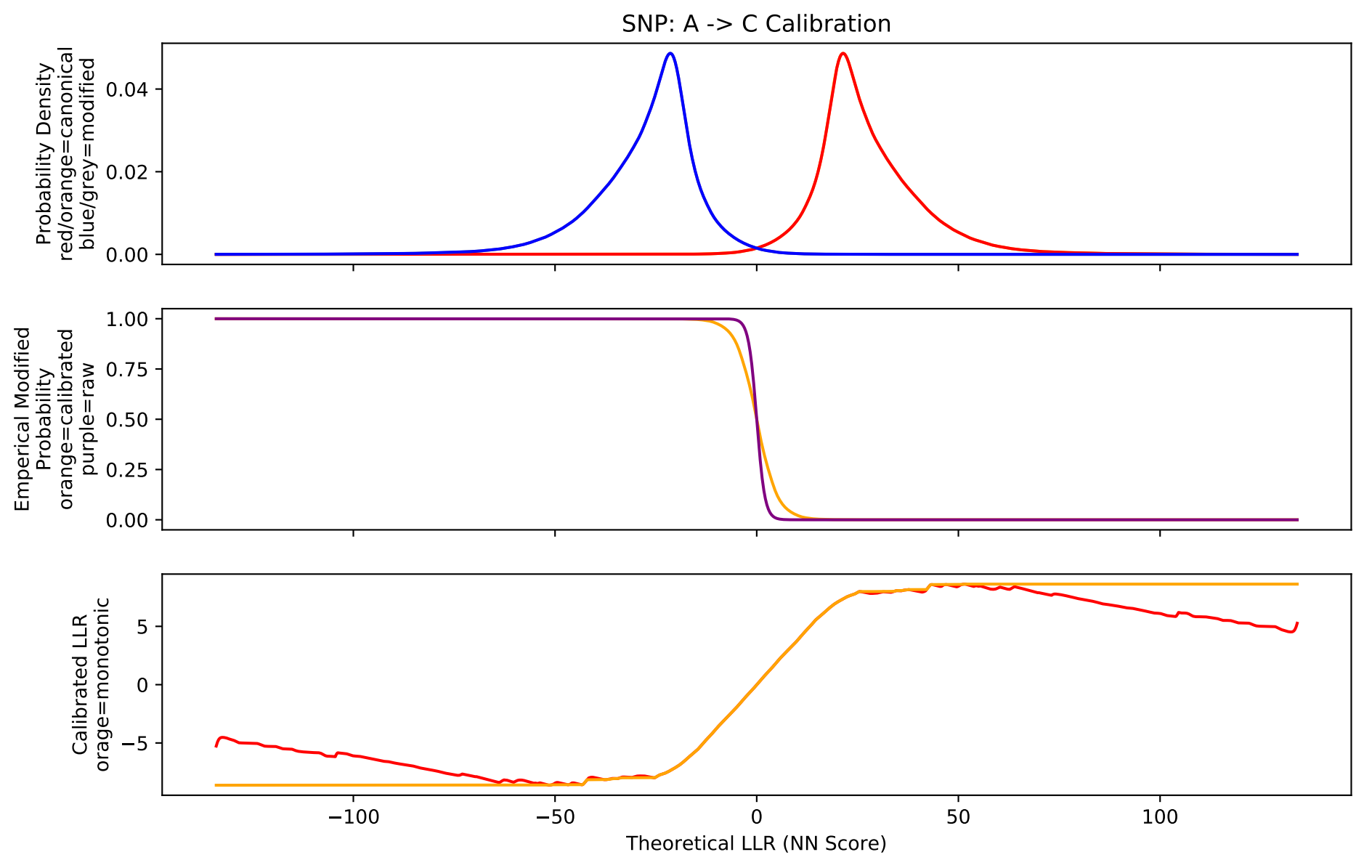
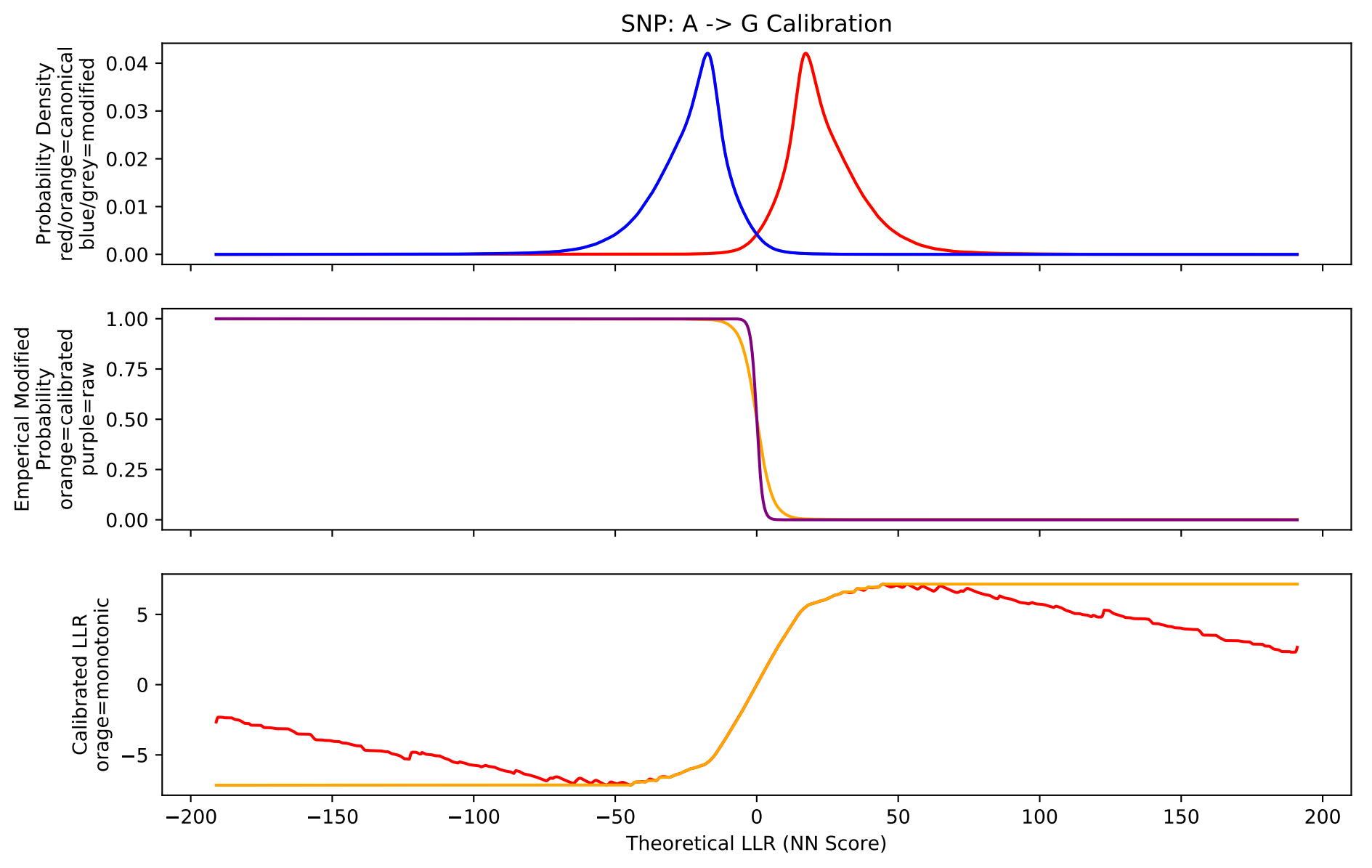

SNP: A -> C Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)


SNP: A -> G Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.03
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
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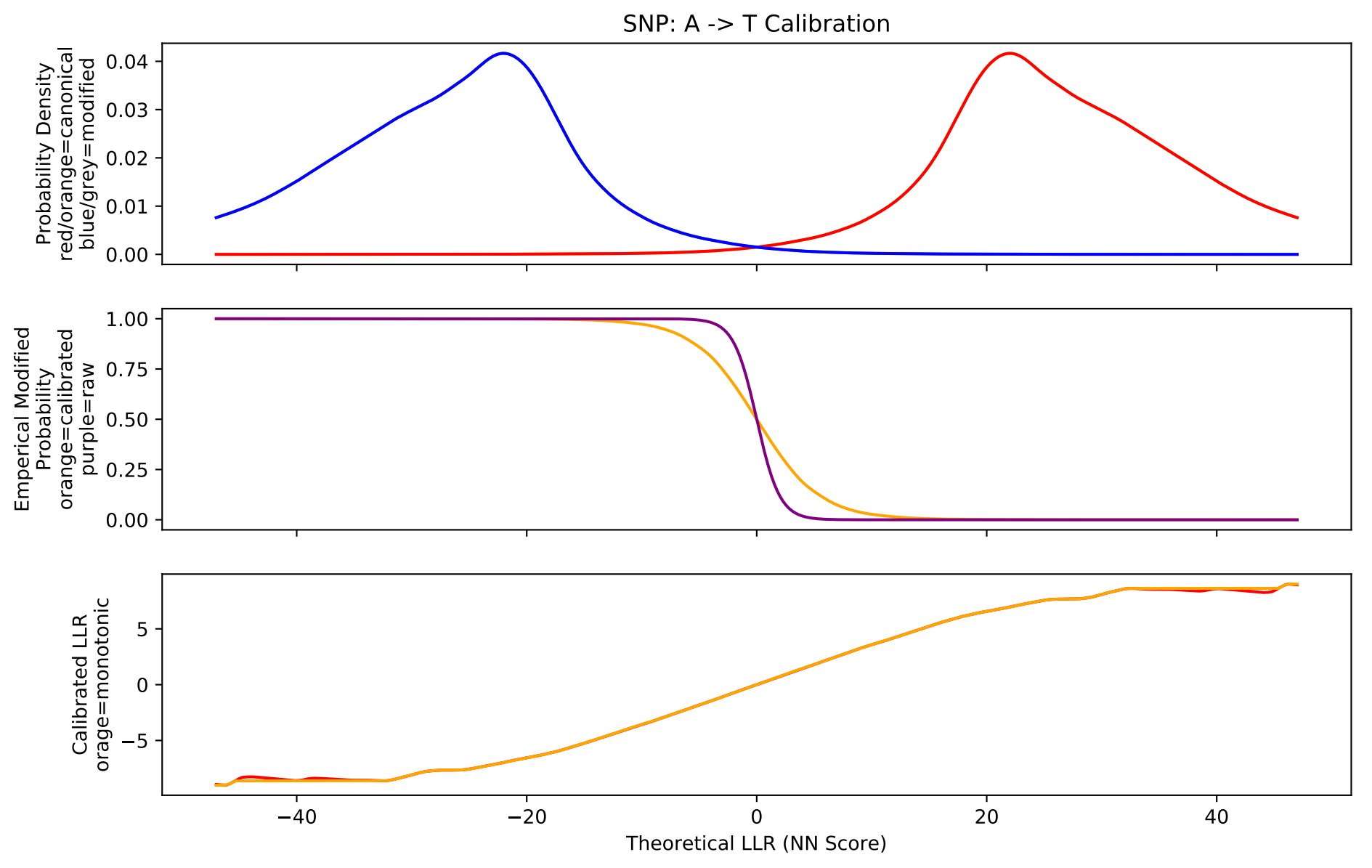
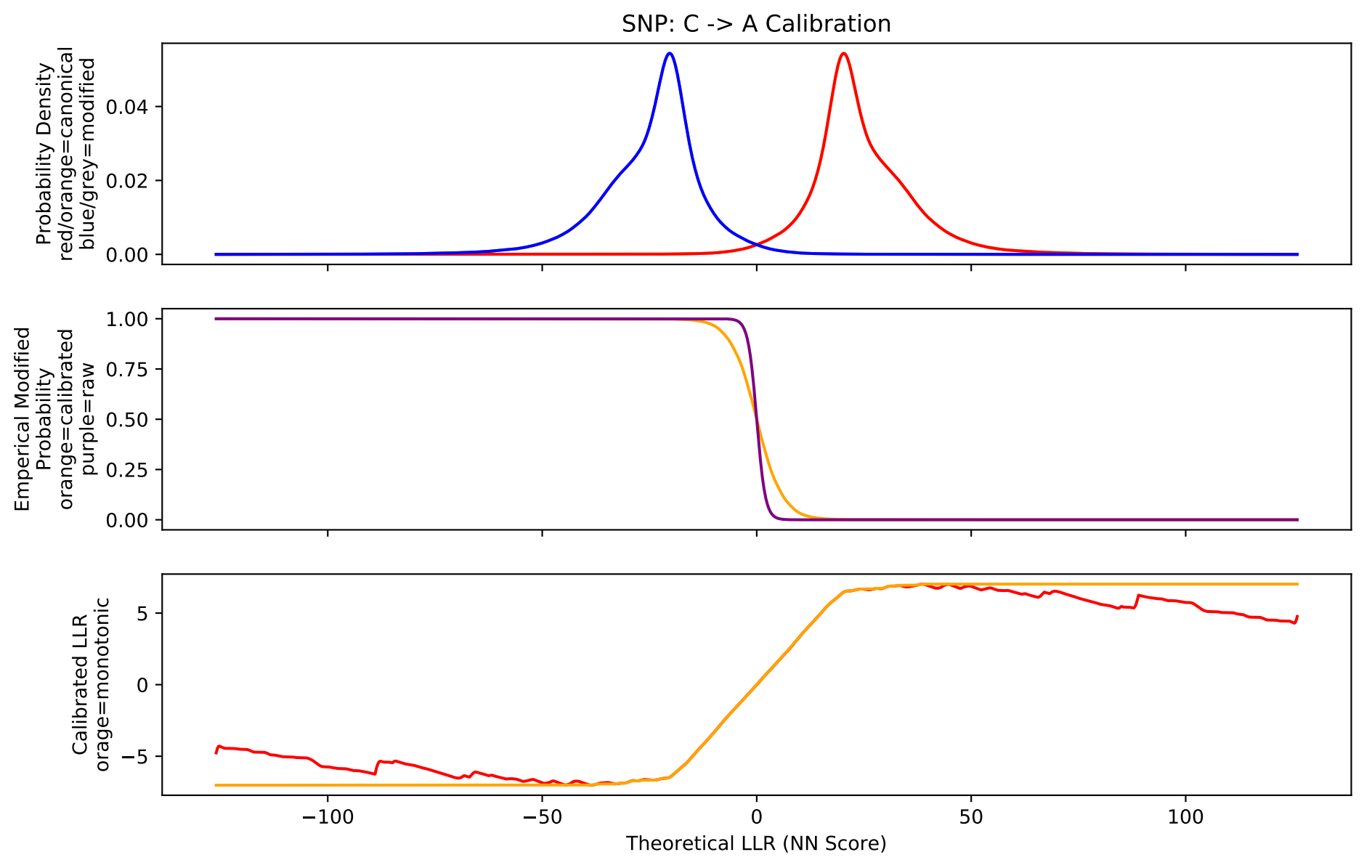
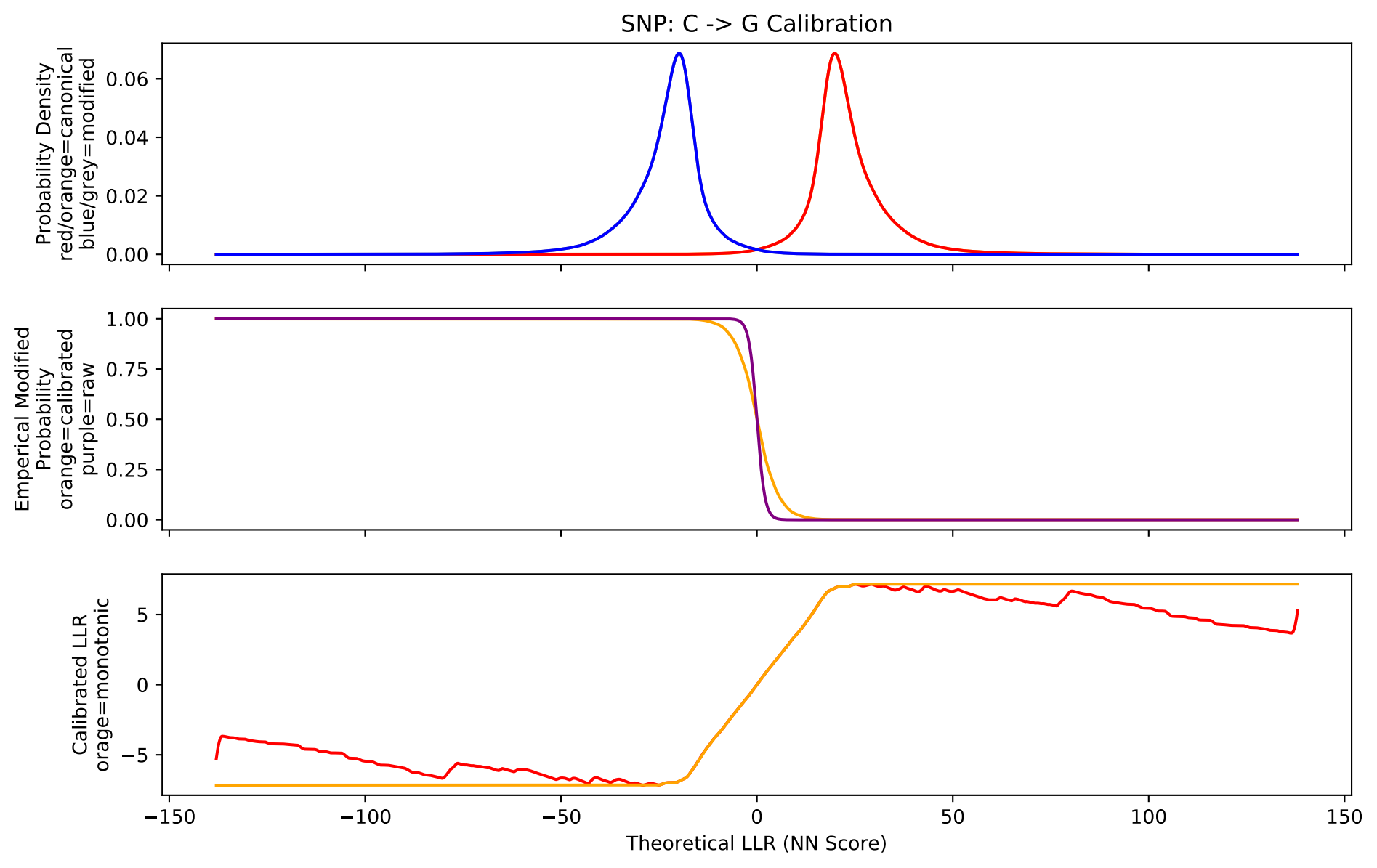
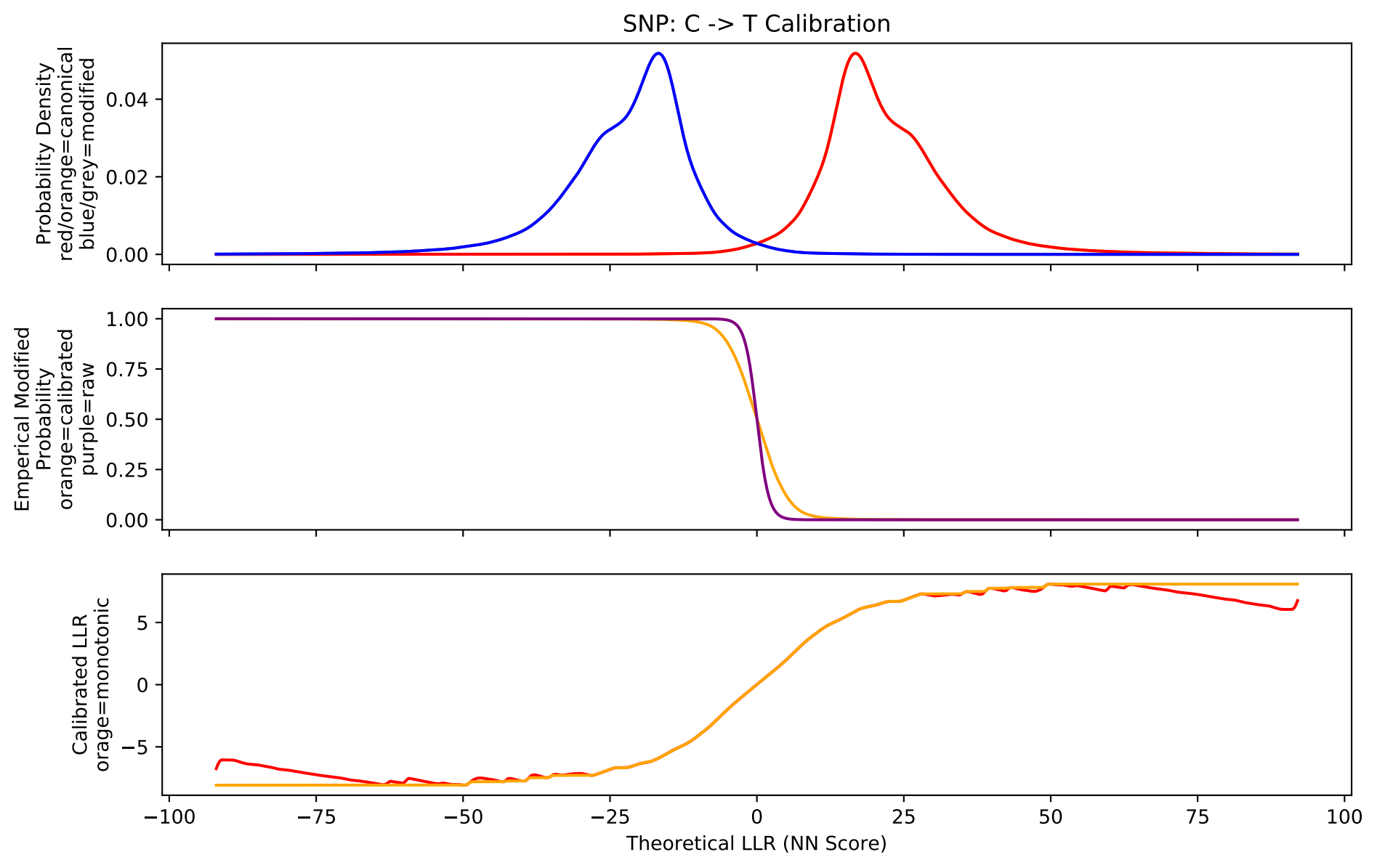
0
−5
−200
−150
−100
−50
0
50
100
150
200
Theoretical LLR (NN Score)


SNP: A -> T Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.03
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−40
−20
0
20
40
Theoretical LLR (NN Score)


SNP: C -> A Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)


SNP: C -> G Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.06
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−150
−100
−50
0
50
100
150
Theoretical LLR (NN Score)


SNP: C -> T Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
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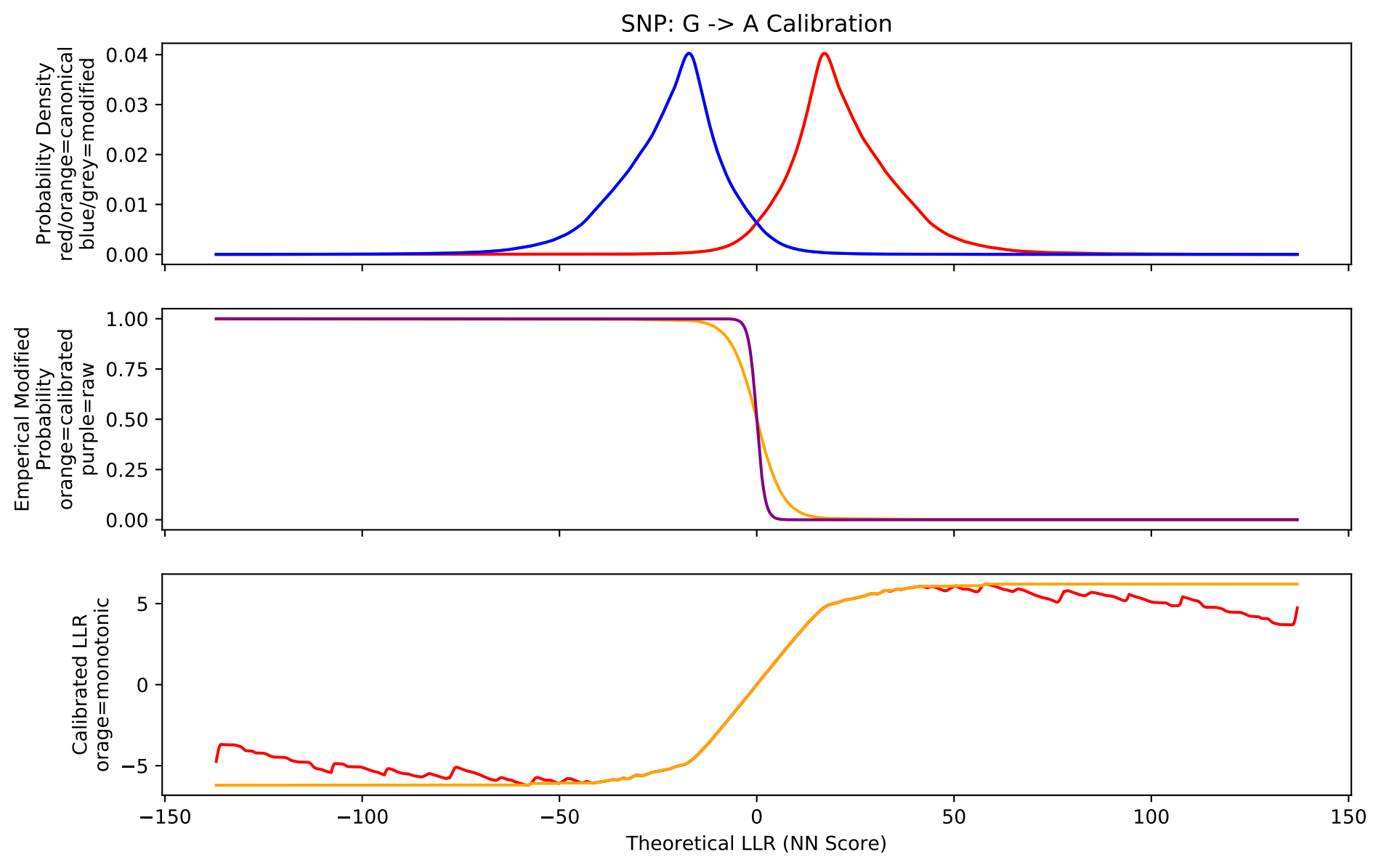
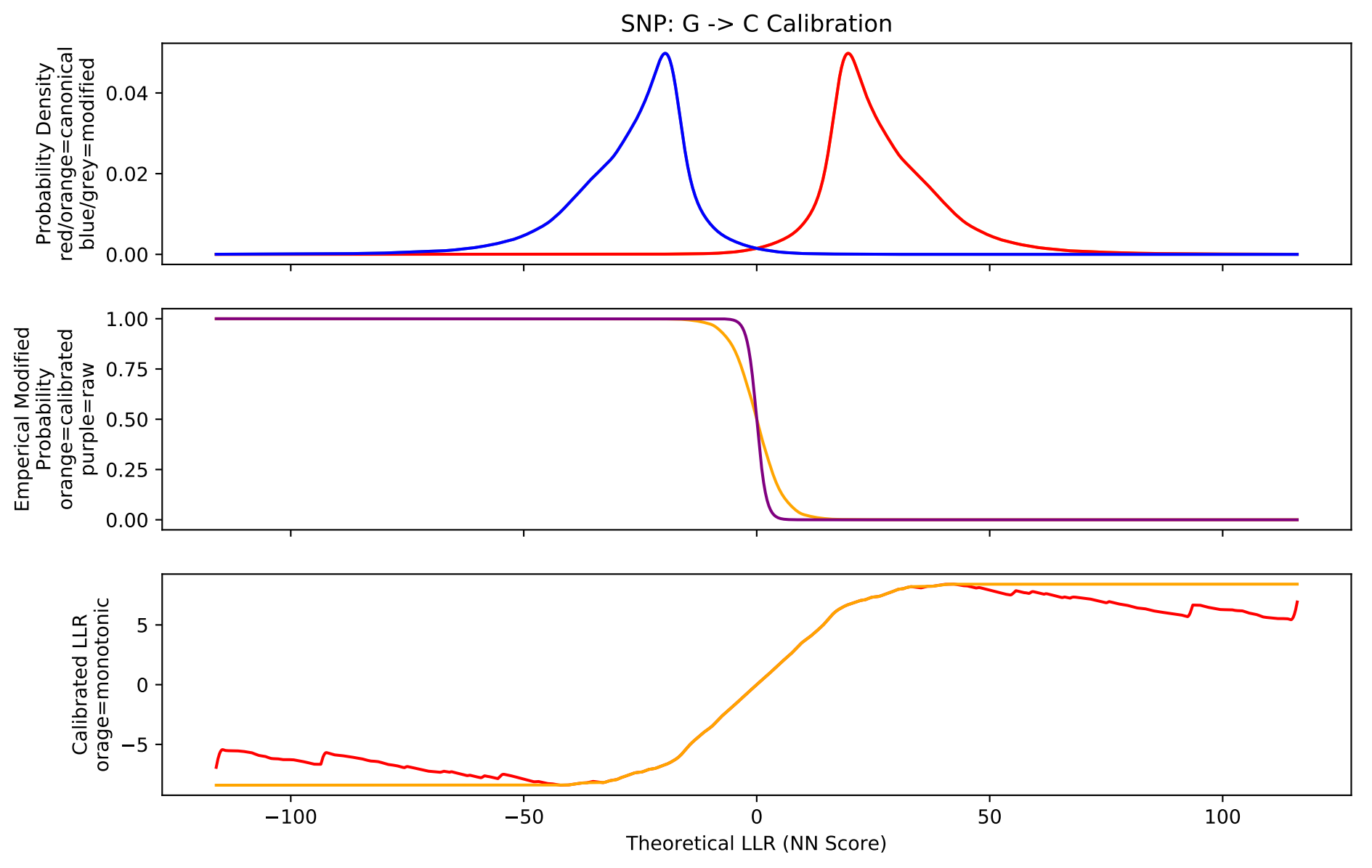
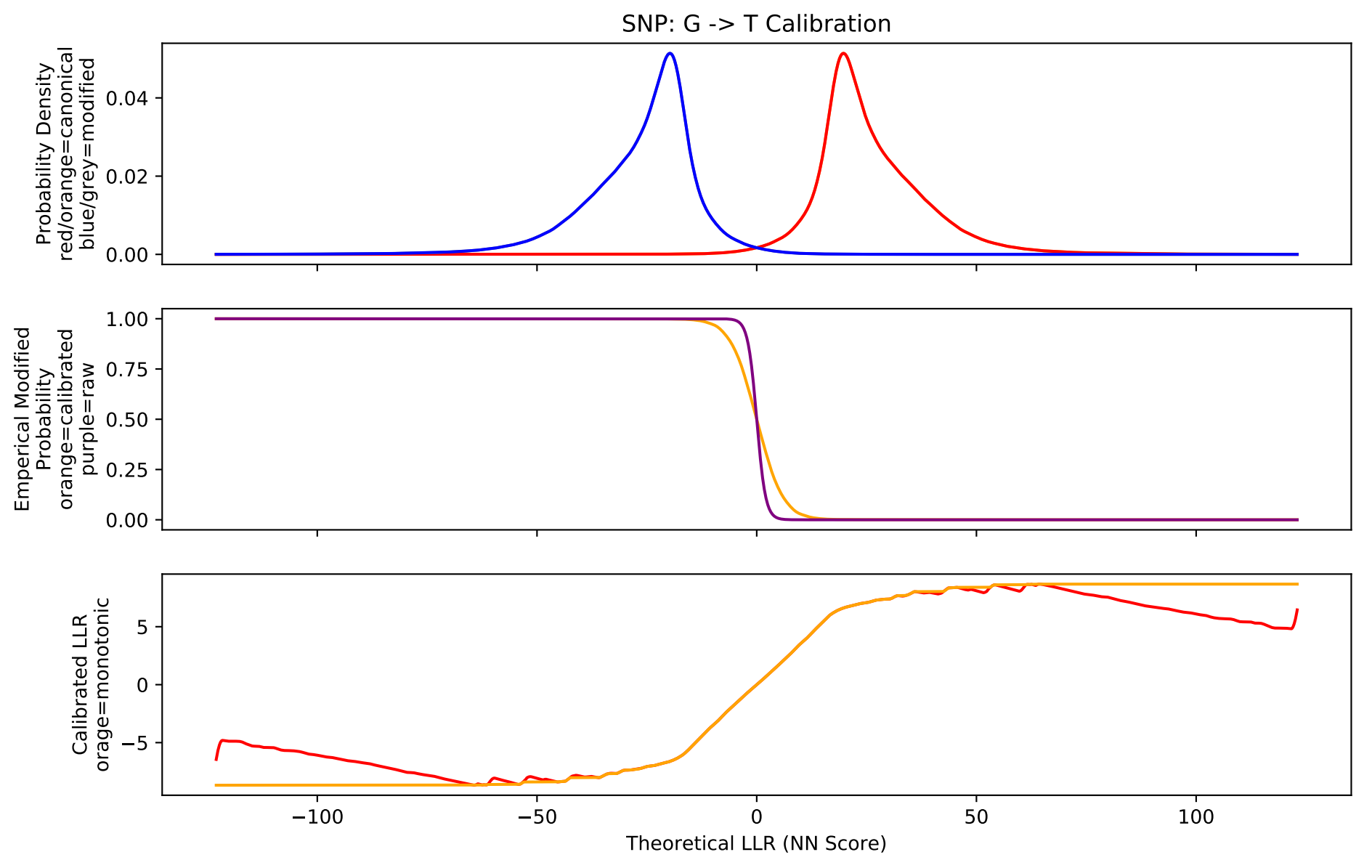
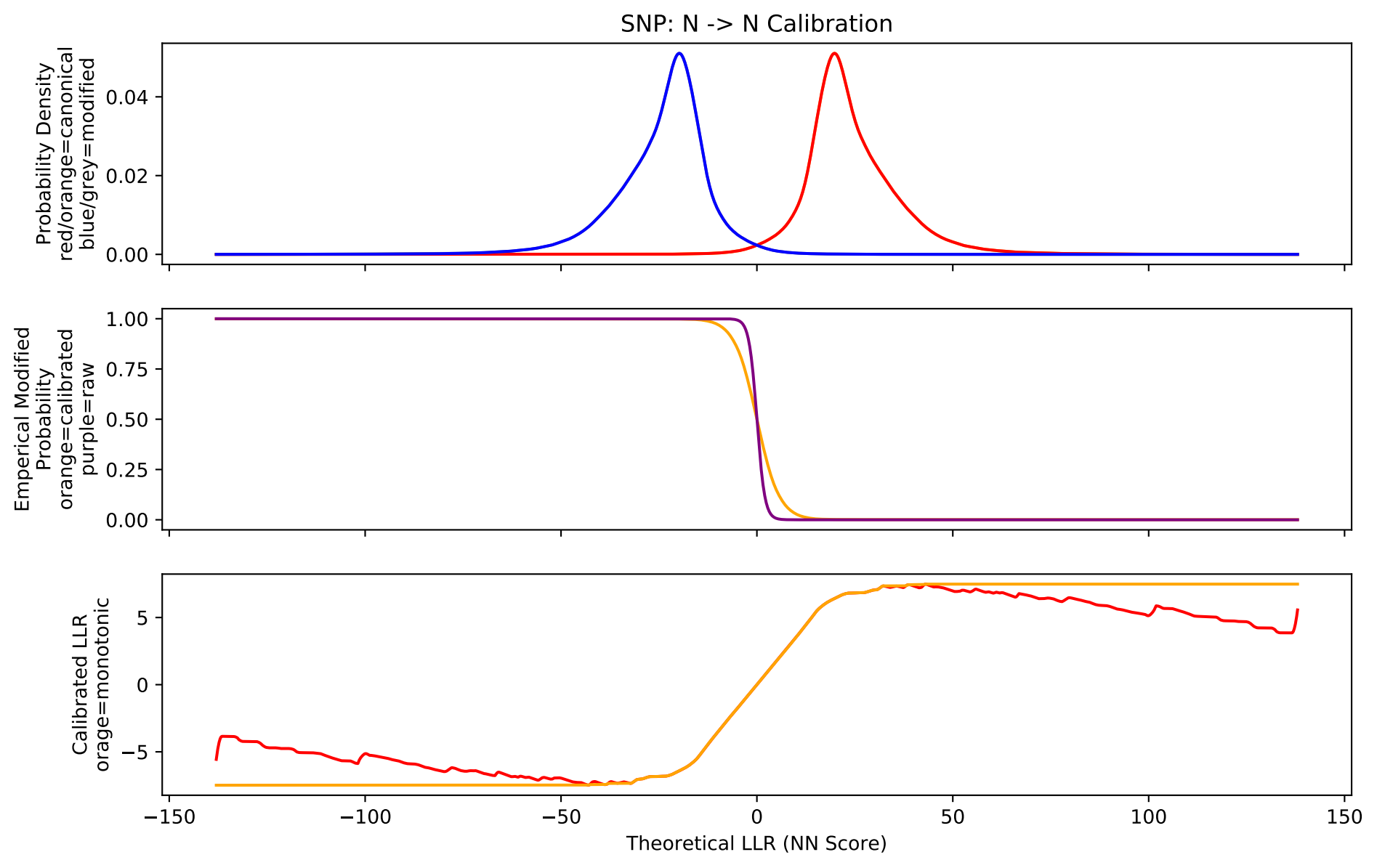
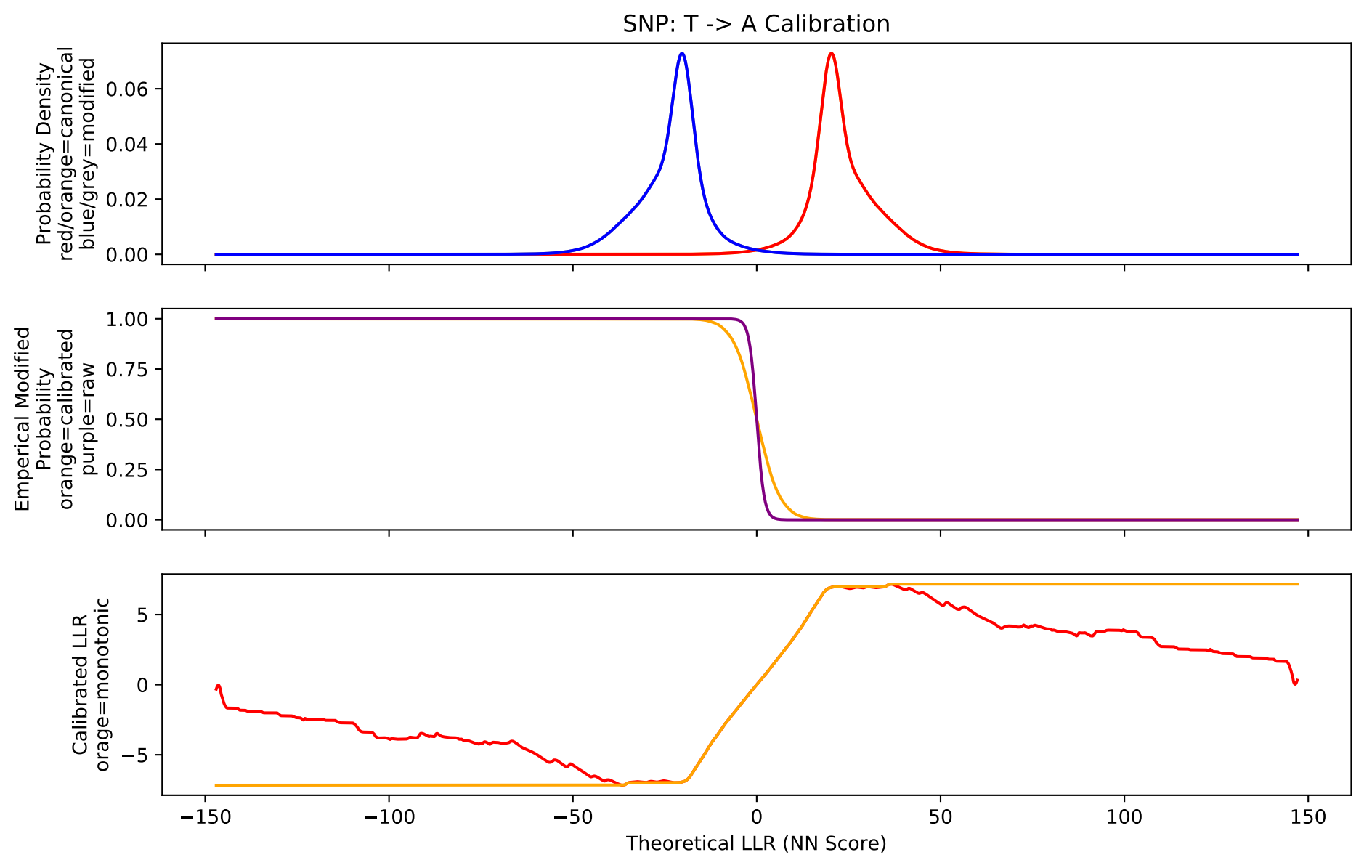
0
−5
−100
−75
−50
−25
0
25
50
75
100
Theoretical LLR (NN Score)

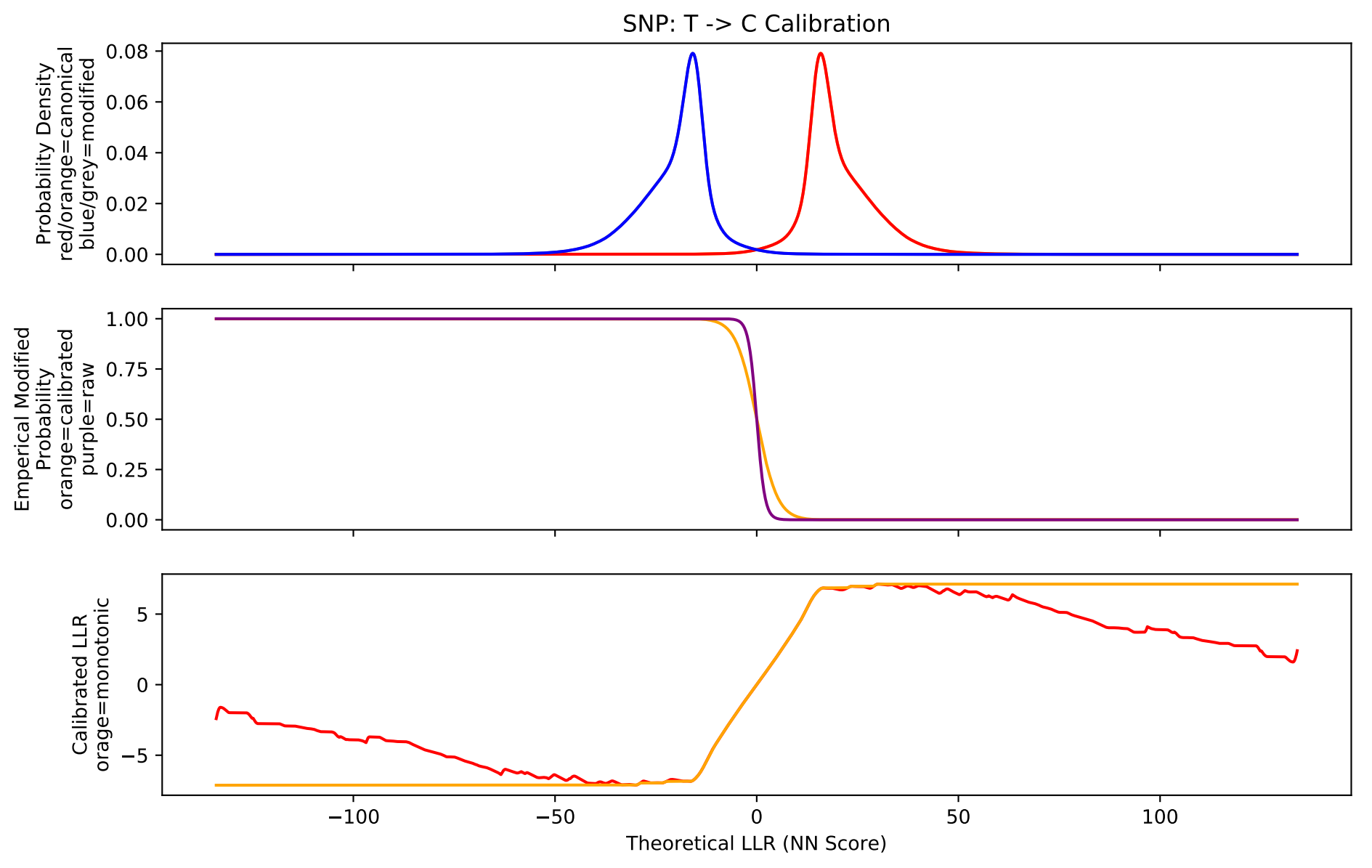

SNP: G -> A Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.03
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−150
−100
−50
0
50
100
150
Theoretical LLR (NN Score)

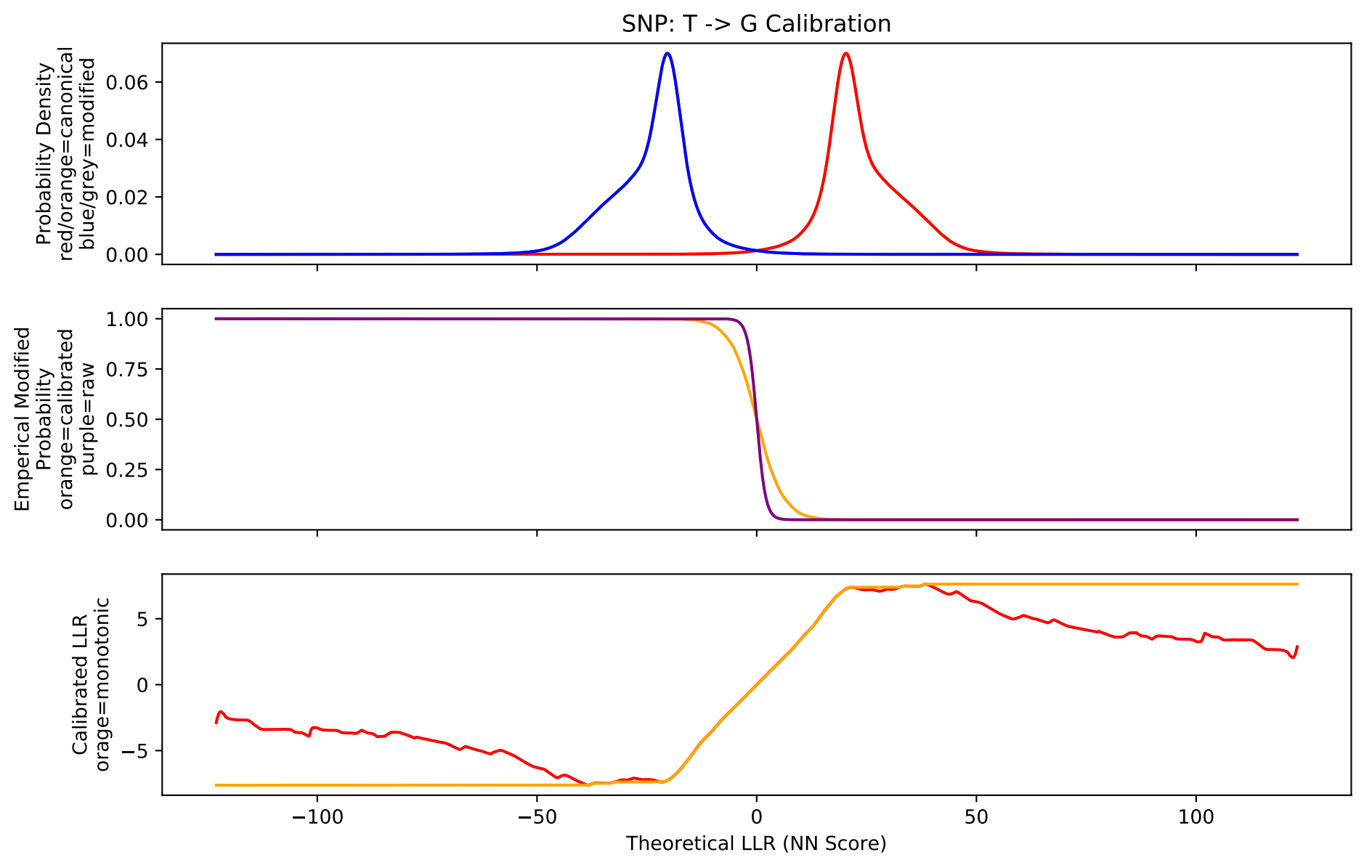

SNP: G -> C Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)

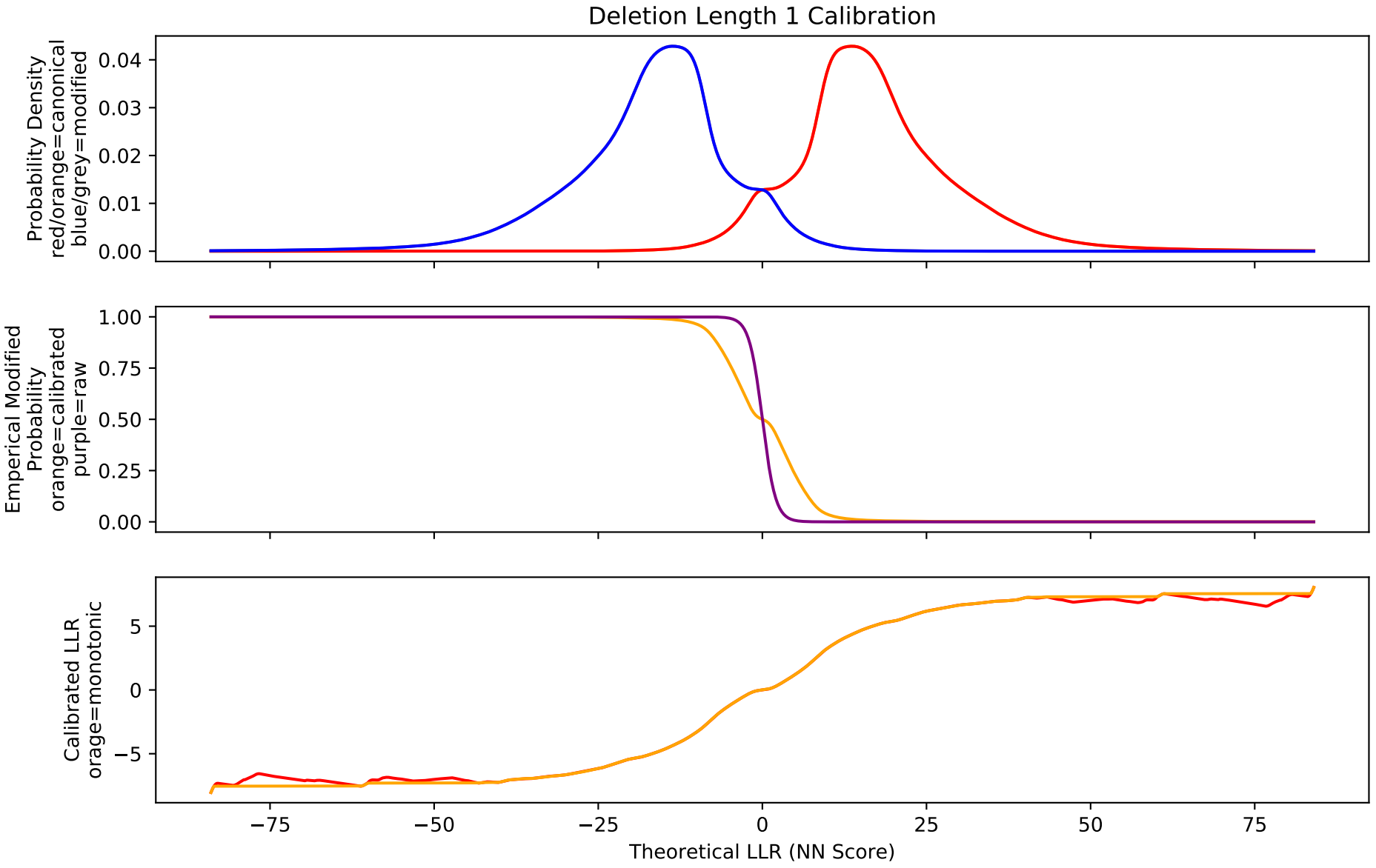

SNP: G -> T Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)

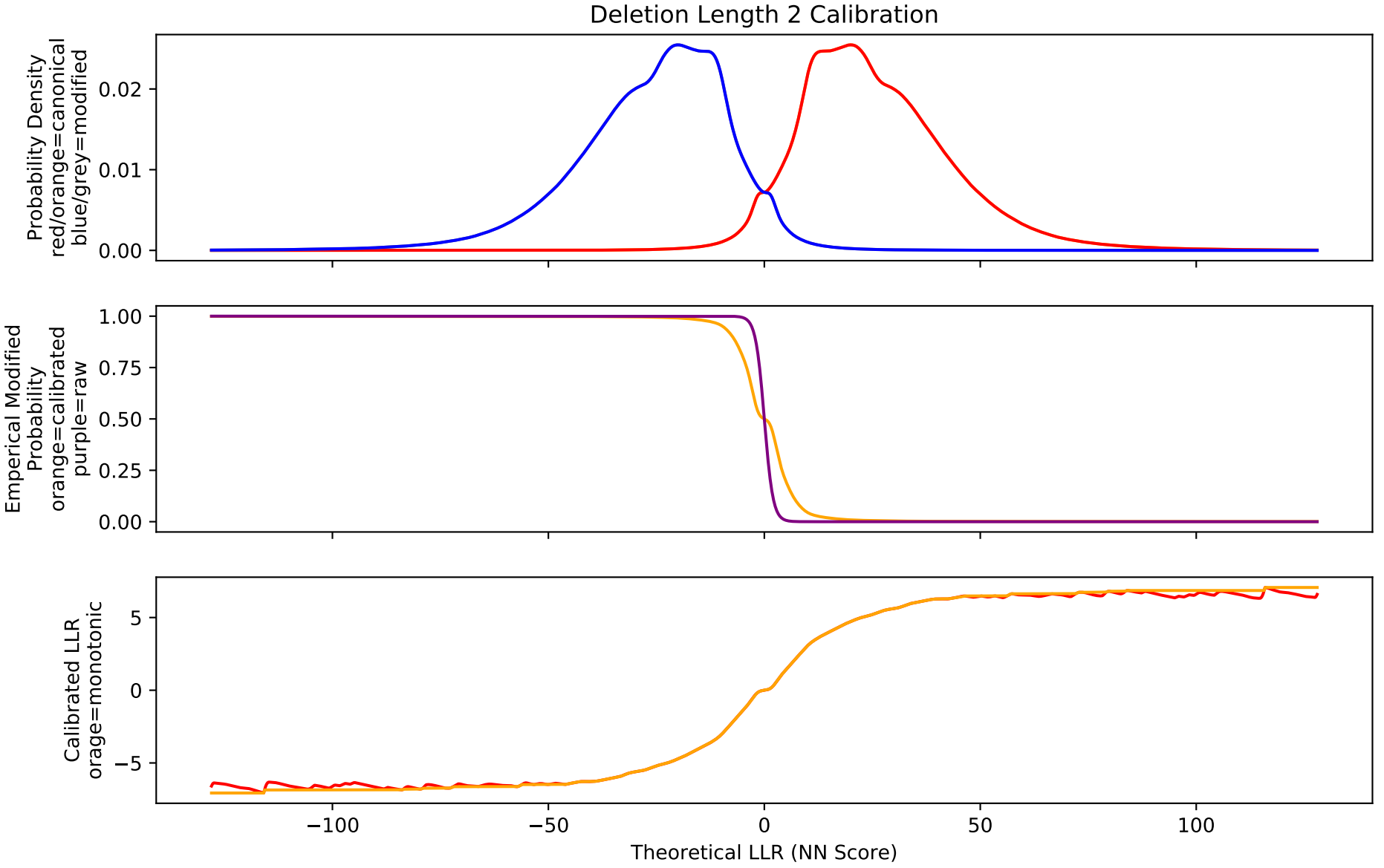

SNP: N -> N Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−150
−100
−50
0
50
100
150
Theoretical LLR (NN Score)

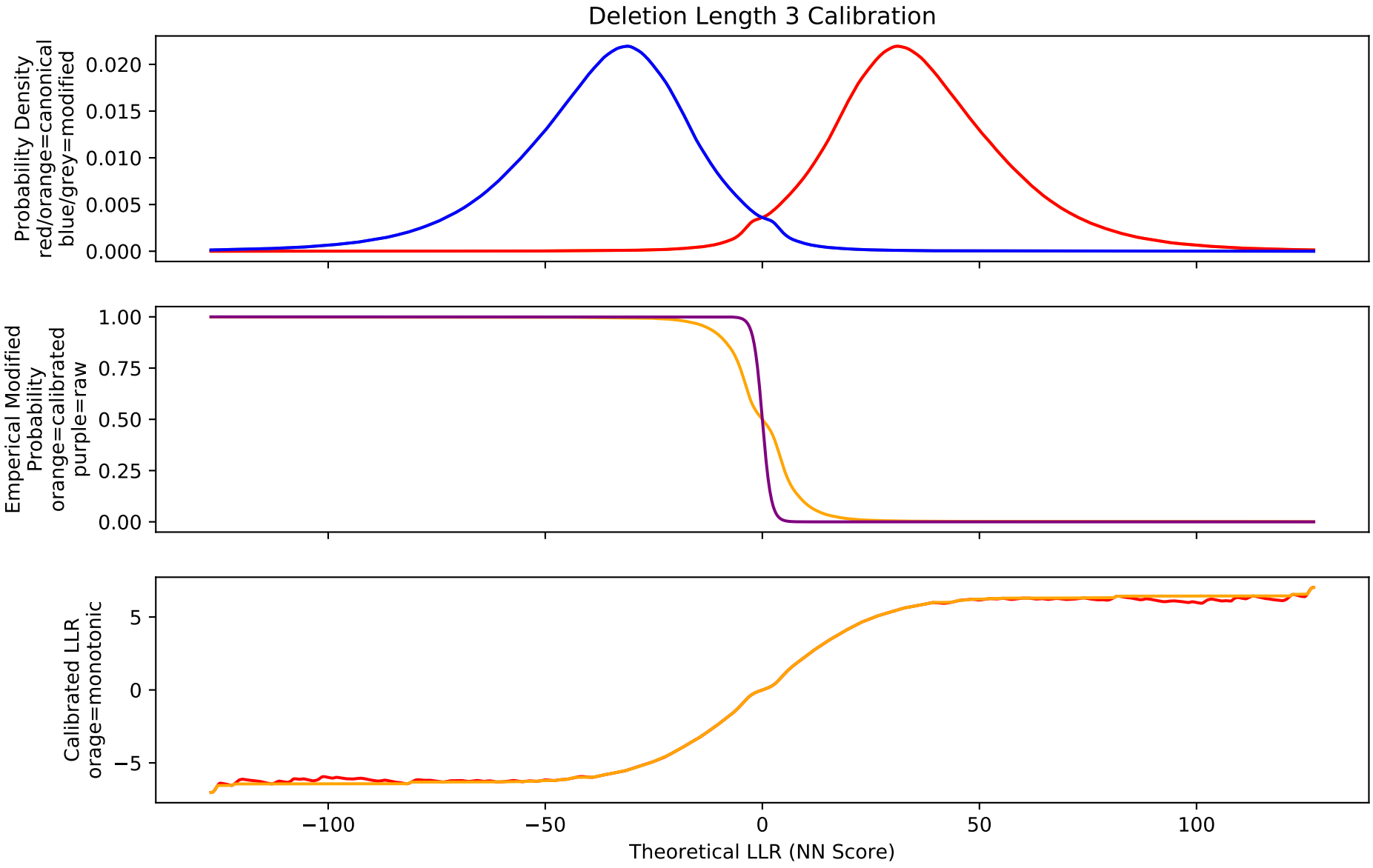

SNP: T -> A Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.06
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−150
−100
−50
0
50
100
150
Theoretical LLR (NN Score)

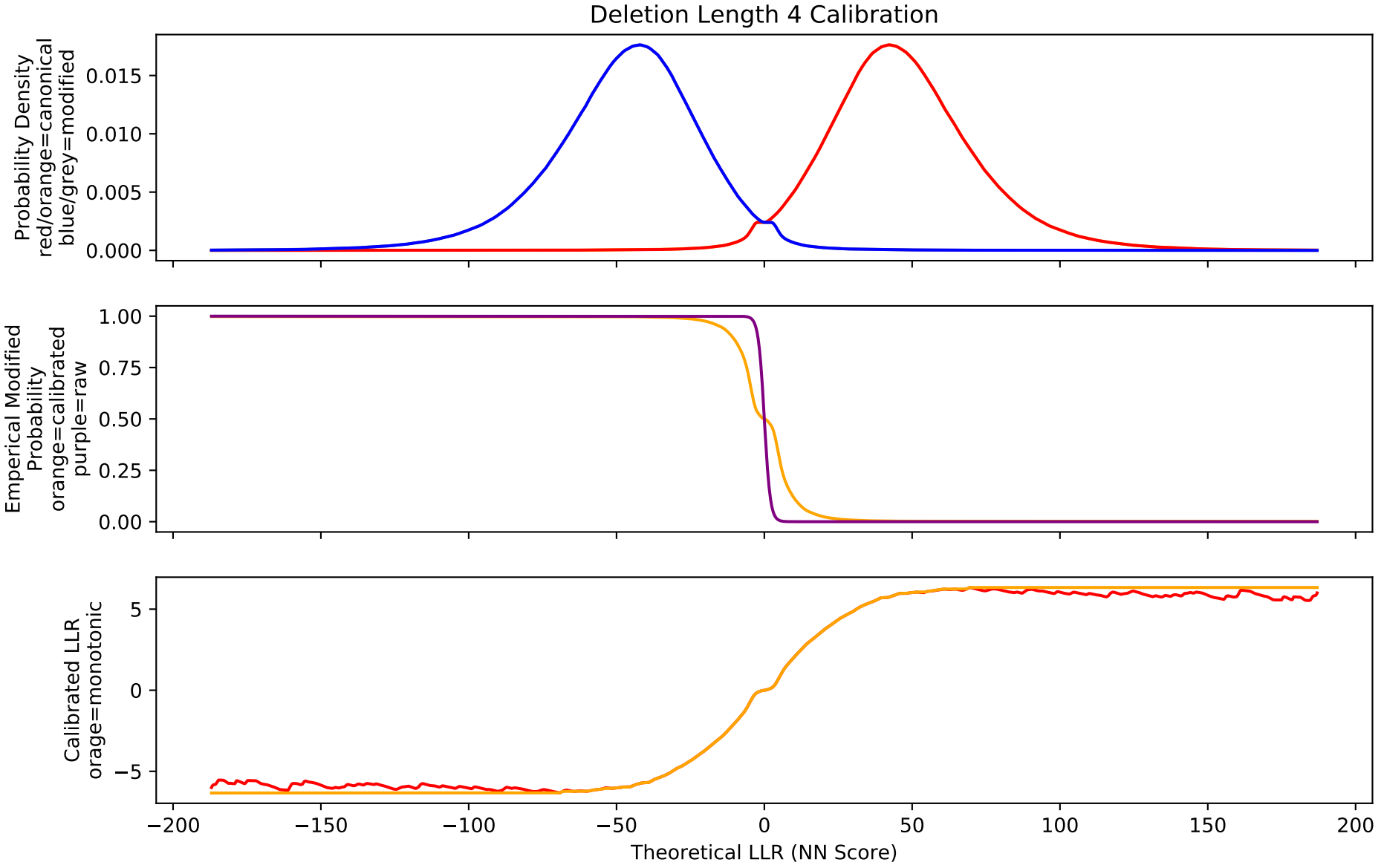

SNP: T -> C Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.08
0.06
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)

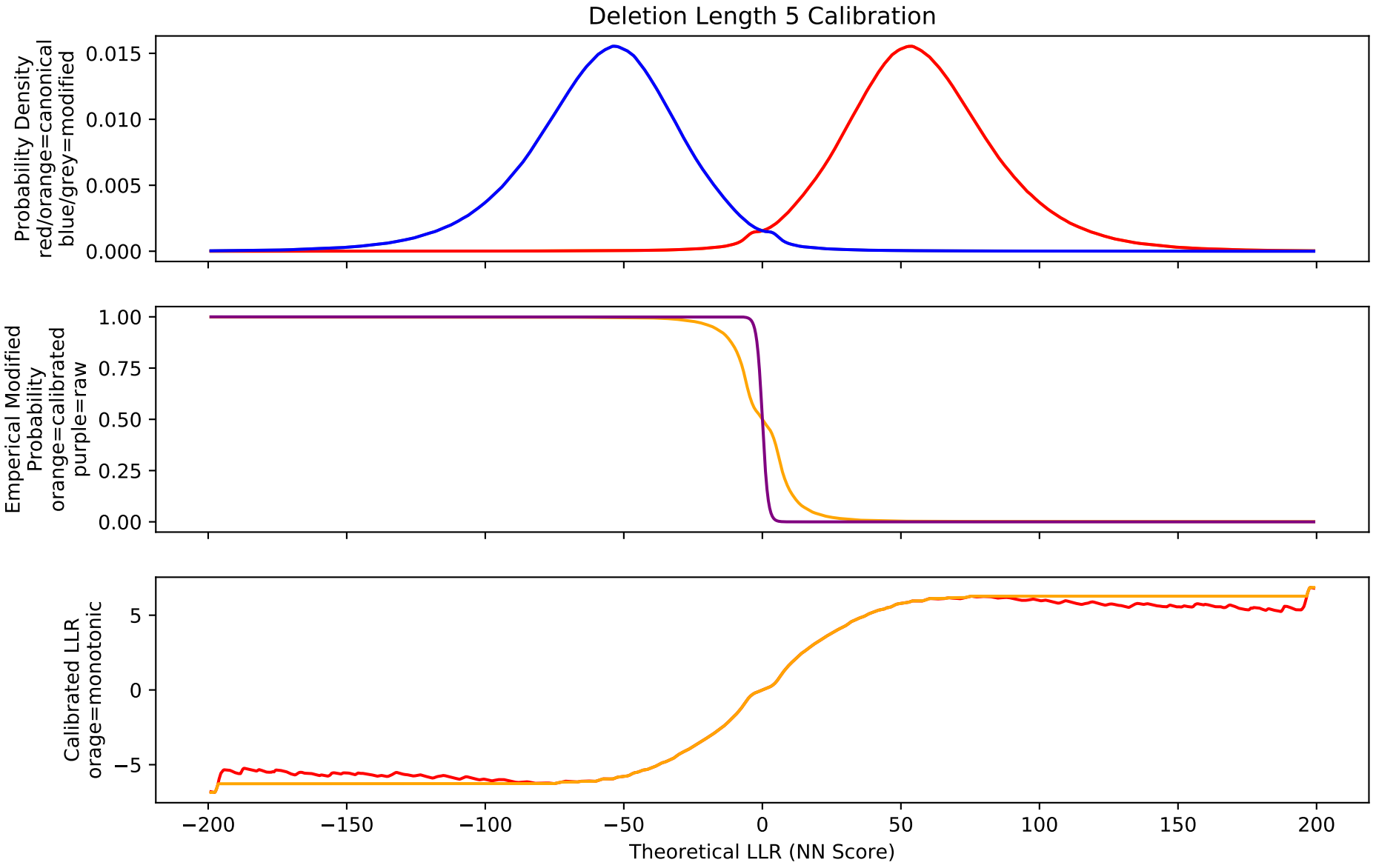

SNP: T -> G Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.06
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)

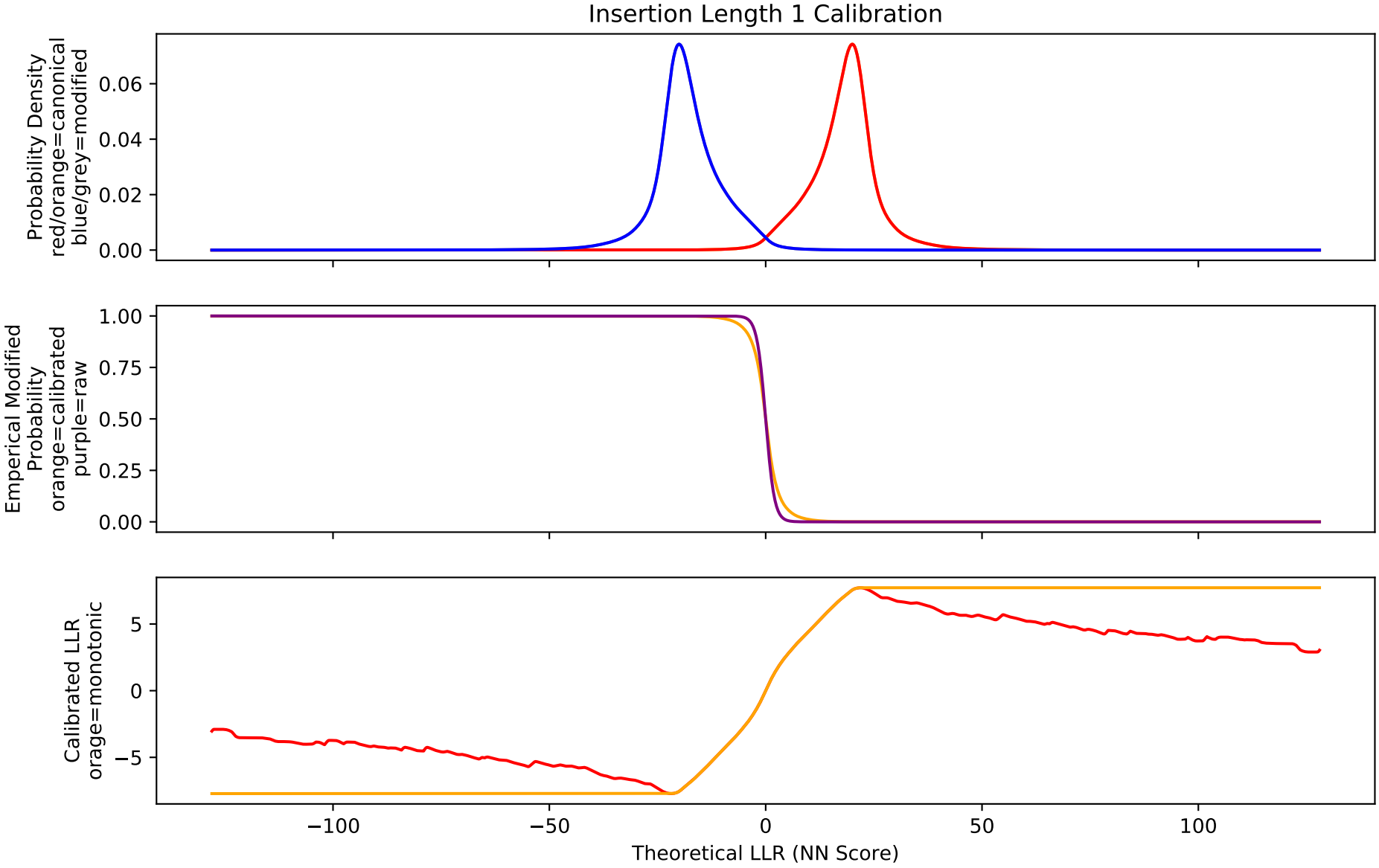

Deletion Length 1 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.04
0.03
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−75
−50
−25
0
25
50
75
Theoretical LLR (NN Score)

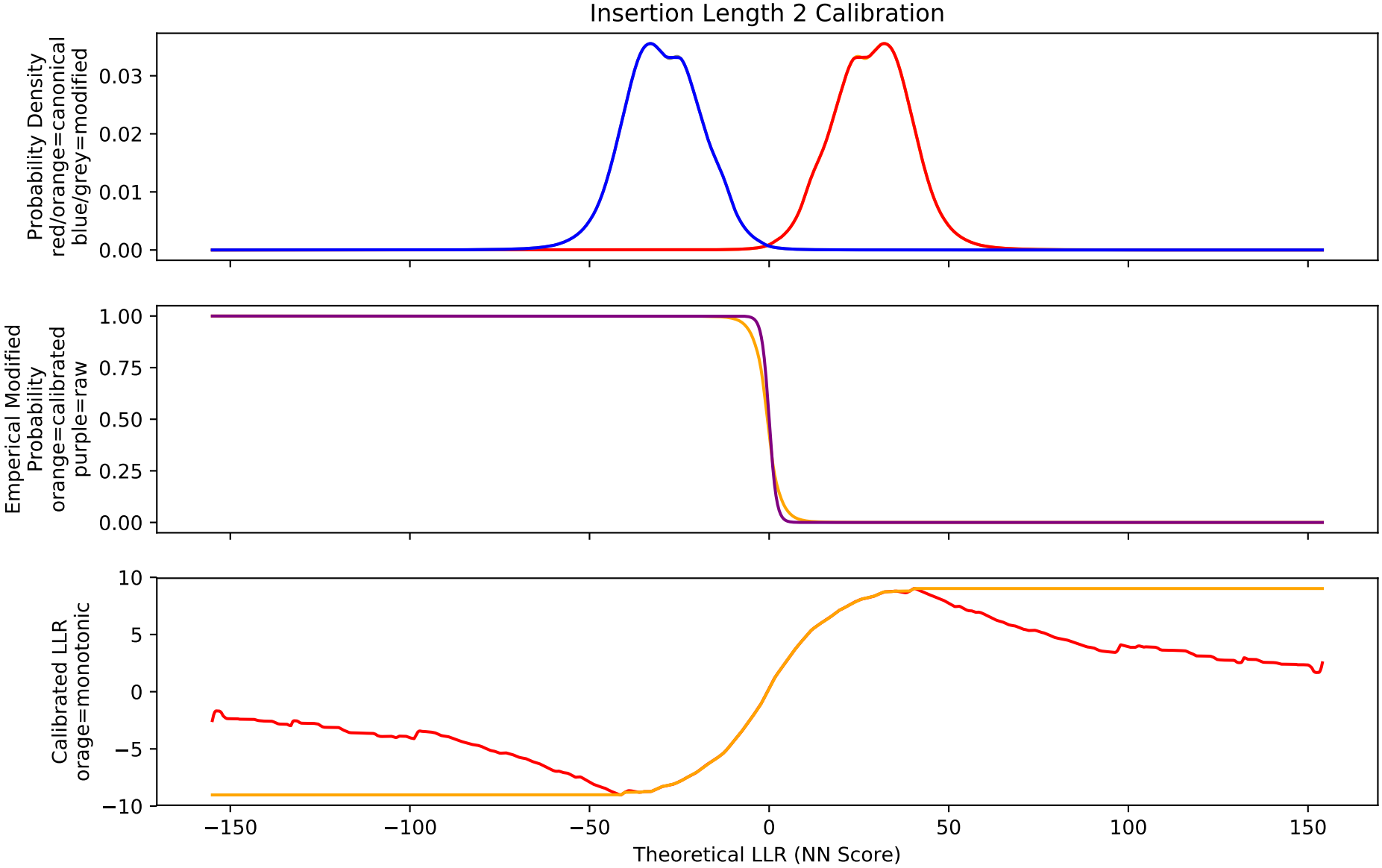

Deletion Length 2 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)

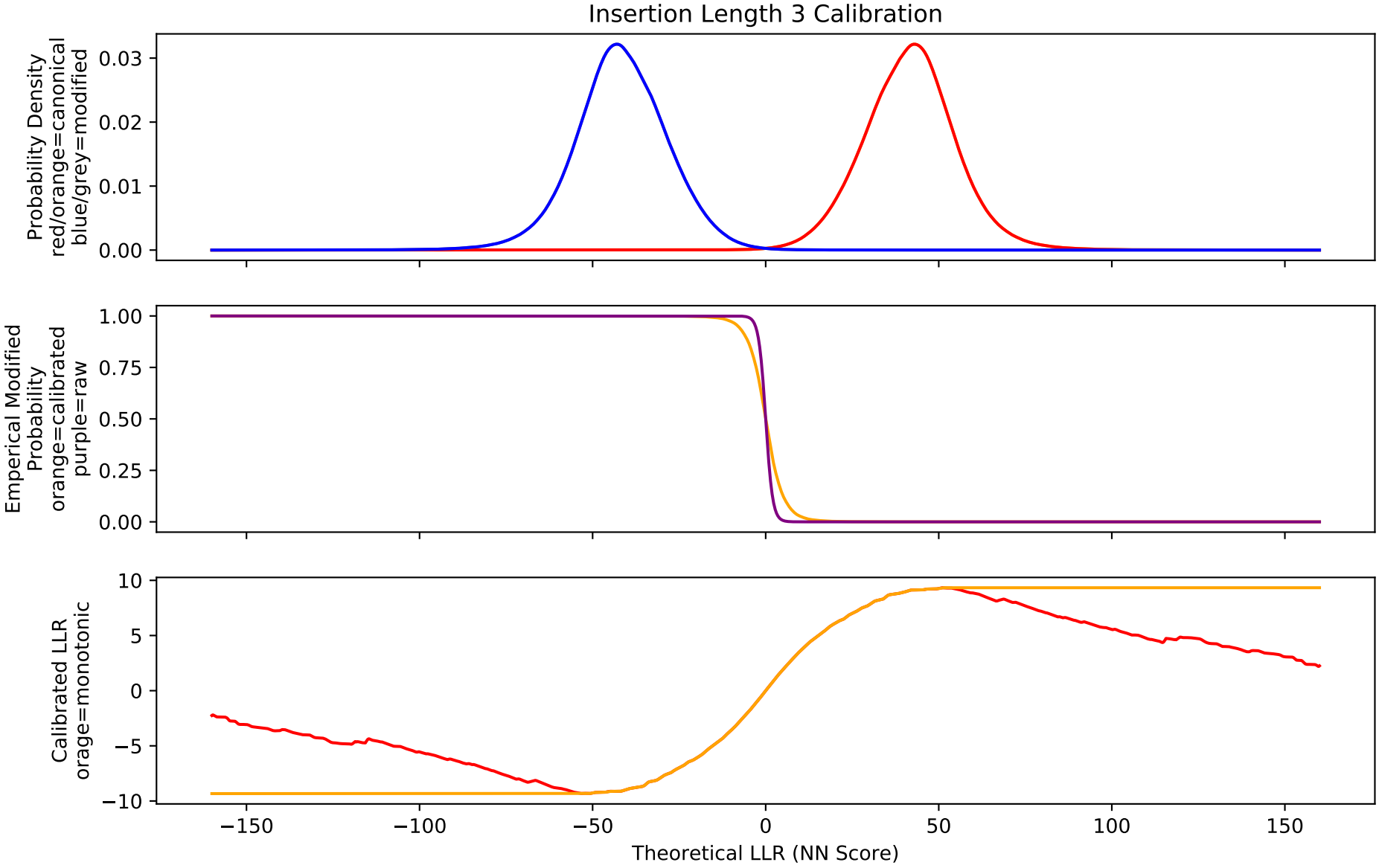

Deletion Length 3 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.020
0.015
0.010
0.005
0.000
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)

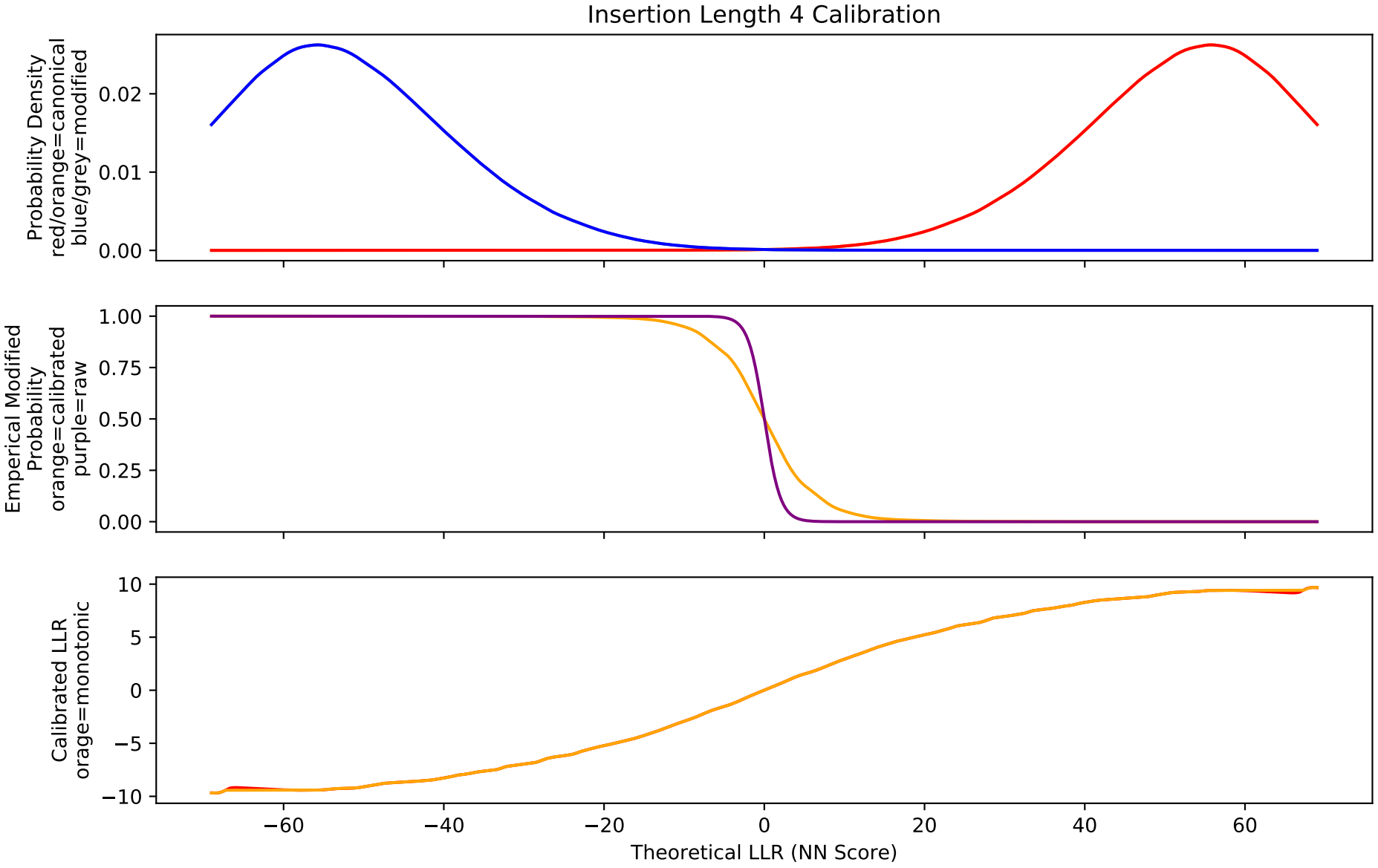

Deletion Length 4 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.015
0.010
0.005
0.000
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−200
−150
−100
−50
0
50
100
150
200
Theoretical LLR (NN Score)

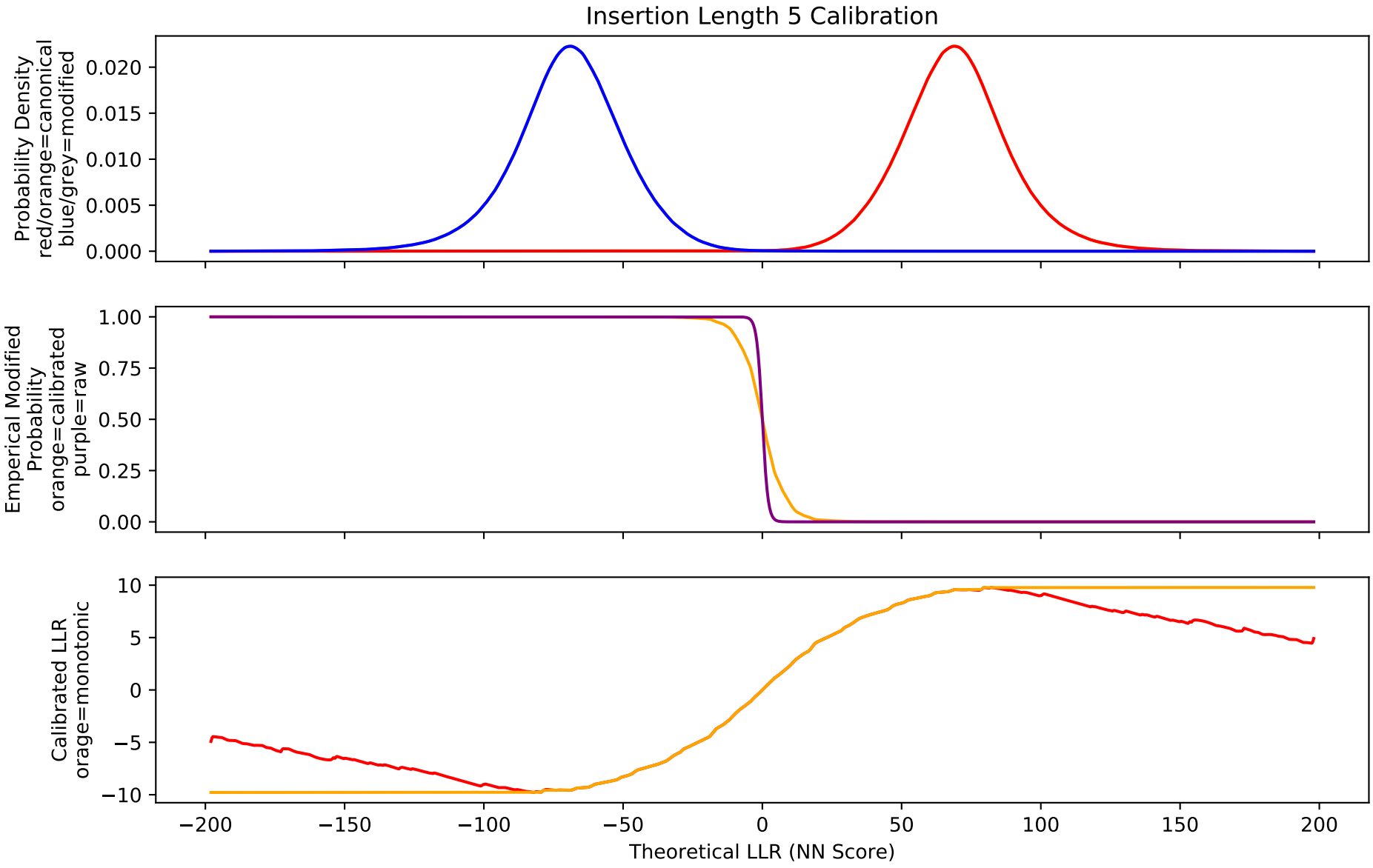

Deletion Length 5 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.015
0.010
0.005
0.000
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−200
−150
−100
−50
0
50
100
150
200
Theoretical LLR (NN Score)


Insertion Length 1 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.06
0.04
0.02
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
5
0
−5
−100
−50
0
50
100
Theoretical LLR (NN Score)


Insertion Length 2 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.03
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
10
5
0
−5
−10
−150
−100
−50
0
50
100
150
Theoretical LLR (NN Score)


Insertion Length 3 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.03
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
10
5
0
−5
−10
−150
−100
−50
0
50
100
150
Theoretical LLR (NN Score)


Insertion Length 4 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.02
0.01
0.00
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
10
5
0
−5
−10
−60
−40
−20
0
20
40
60
Theoretical LLR (NN Score)


Insertion Length 5 Calibration
Probability Density
red/orange=canonical
blue/grey=modified
0.020
0.015
0.010
0.005
0.000
Emperical Modified
Probability
orange=calibrated
purple=raw
1.00
0.75
0.50
0.25
0.00
Calibrated LLR
orage=monotonic
10
5
0
−5
−10
−200
−150
−100
−50
0
50
100
150
200
Theoretical LLR (NN Score)