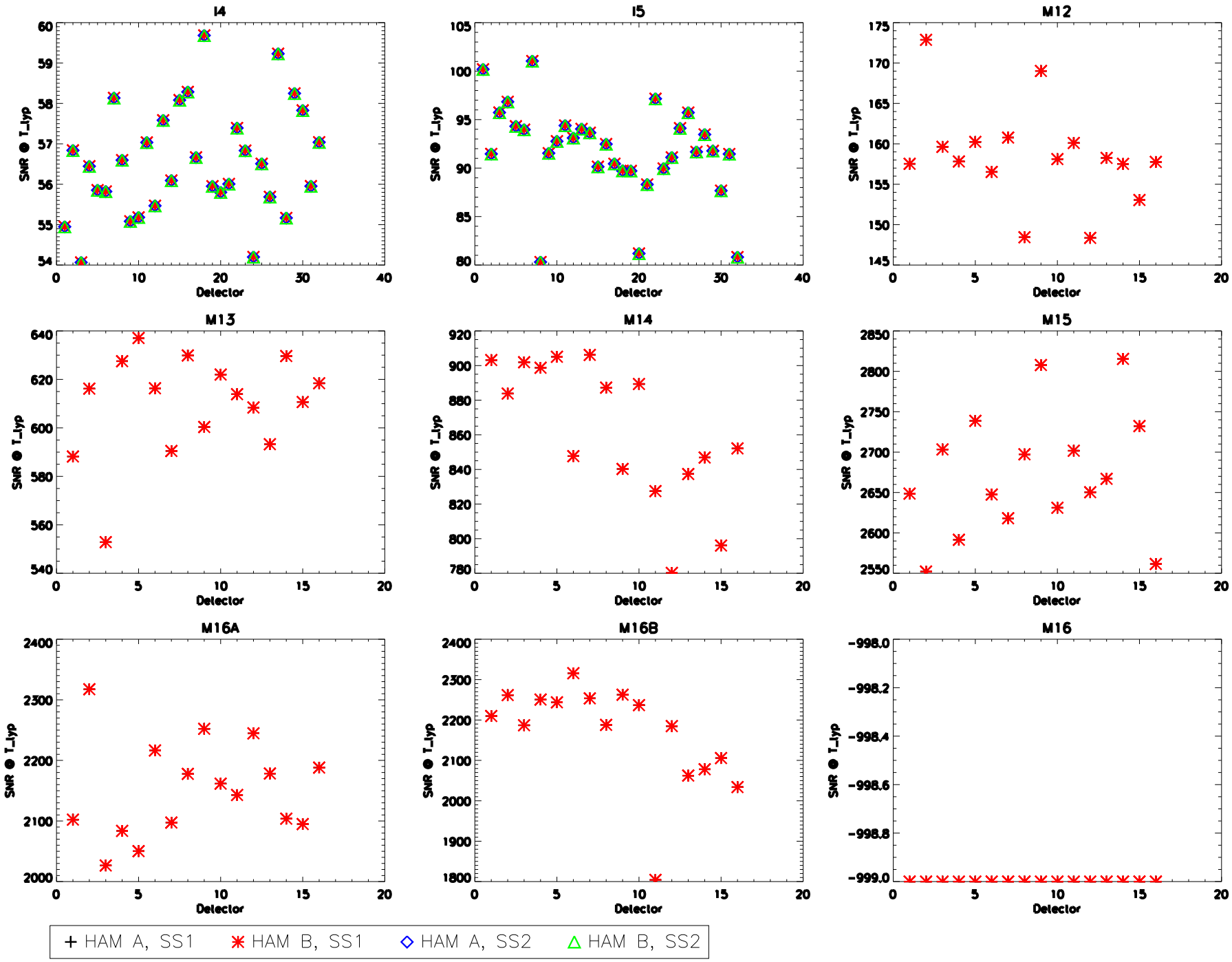
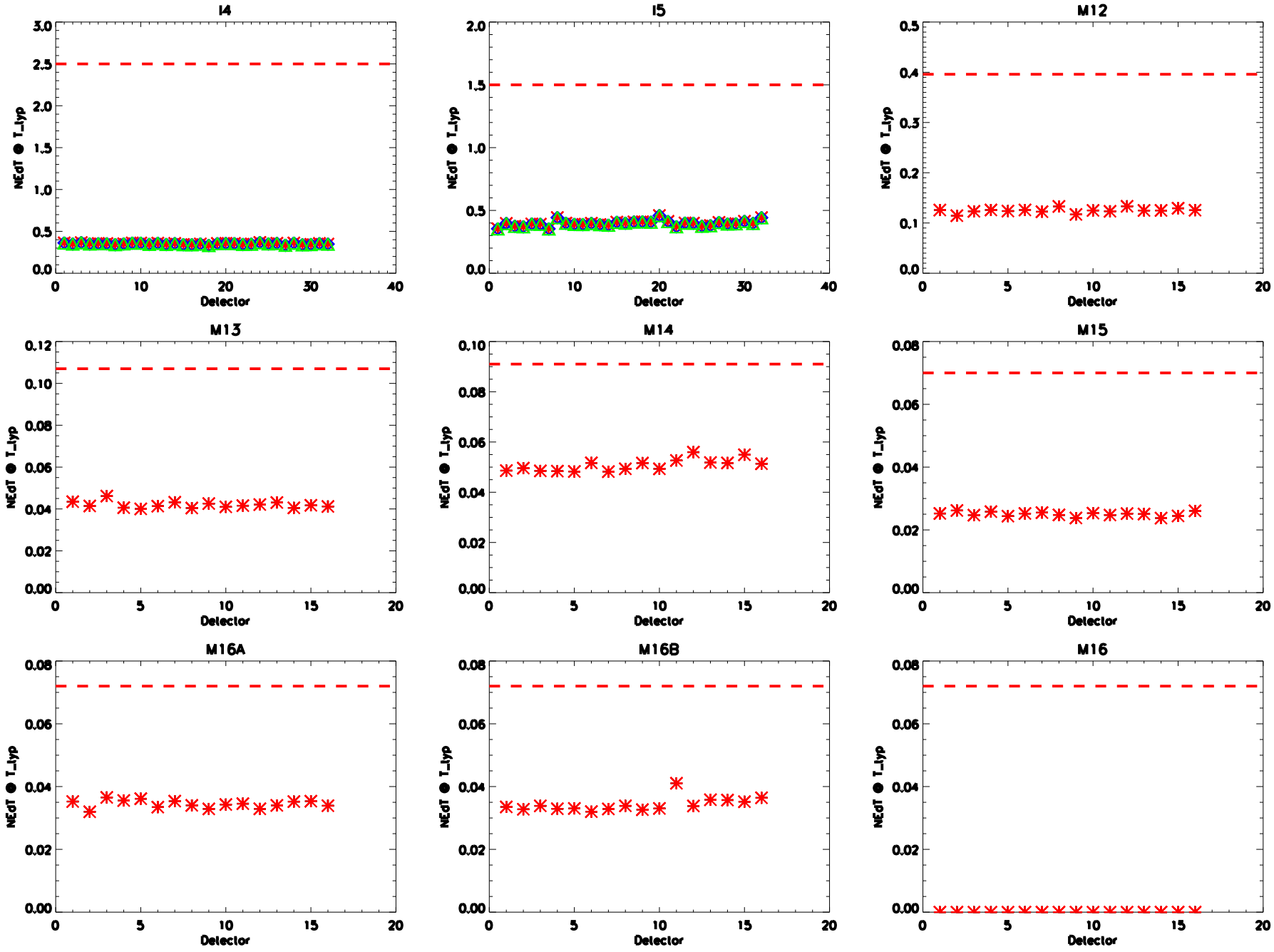
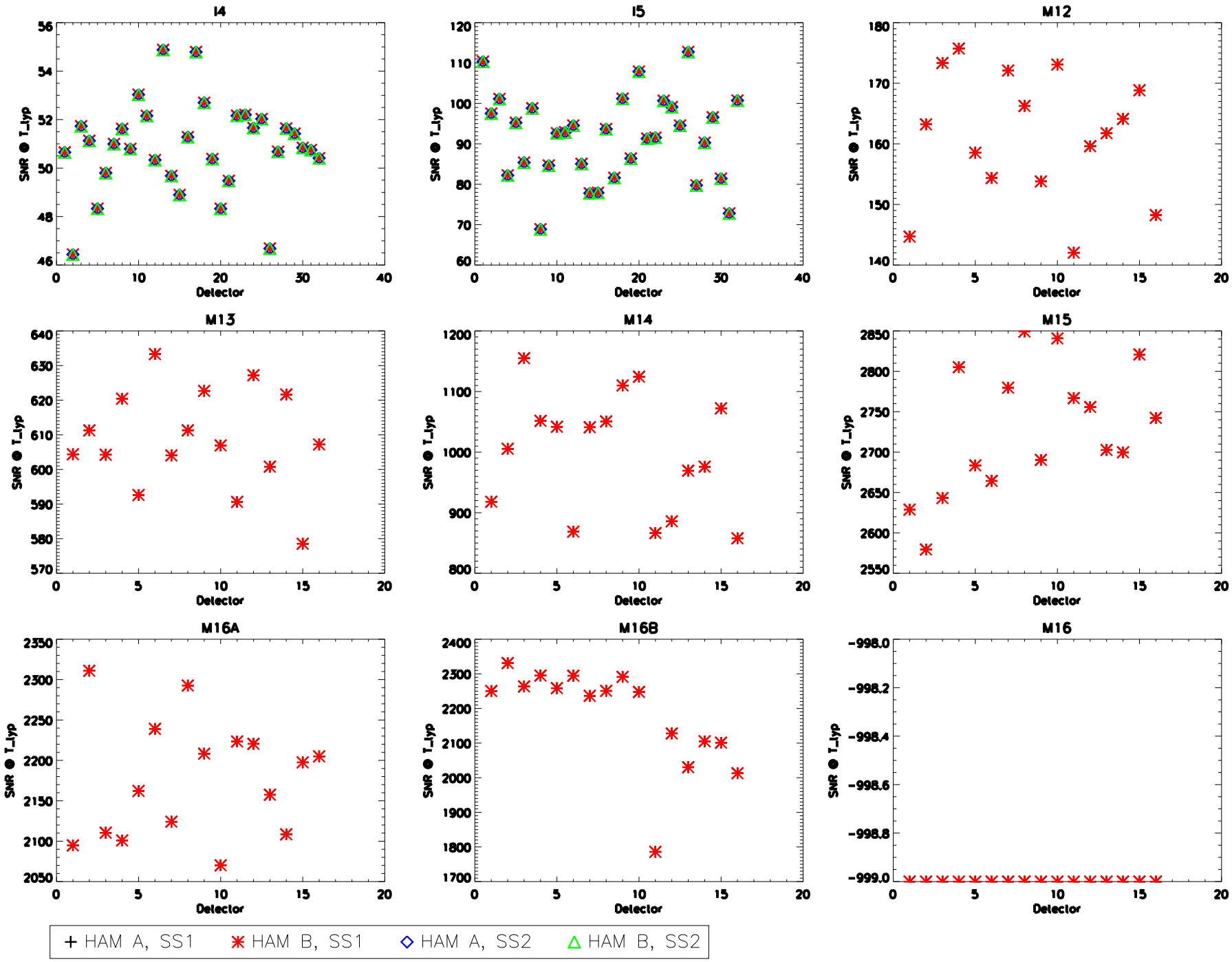
SNR at T_typ (warm-up)

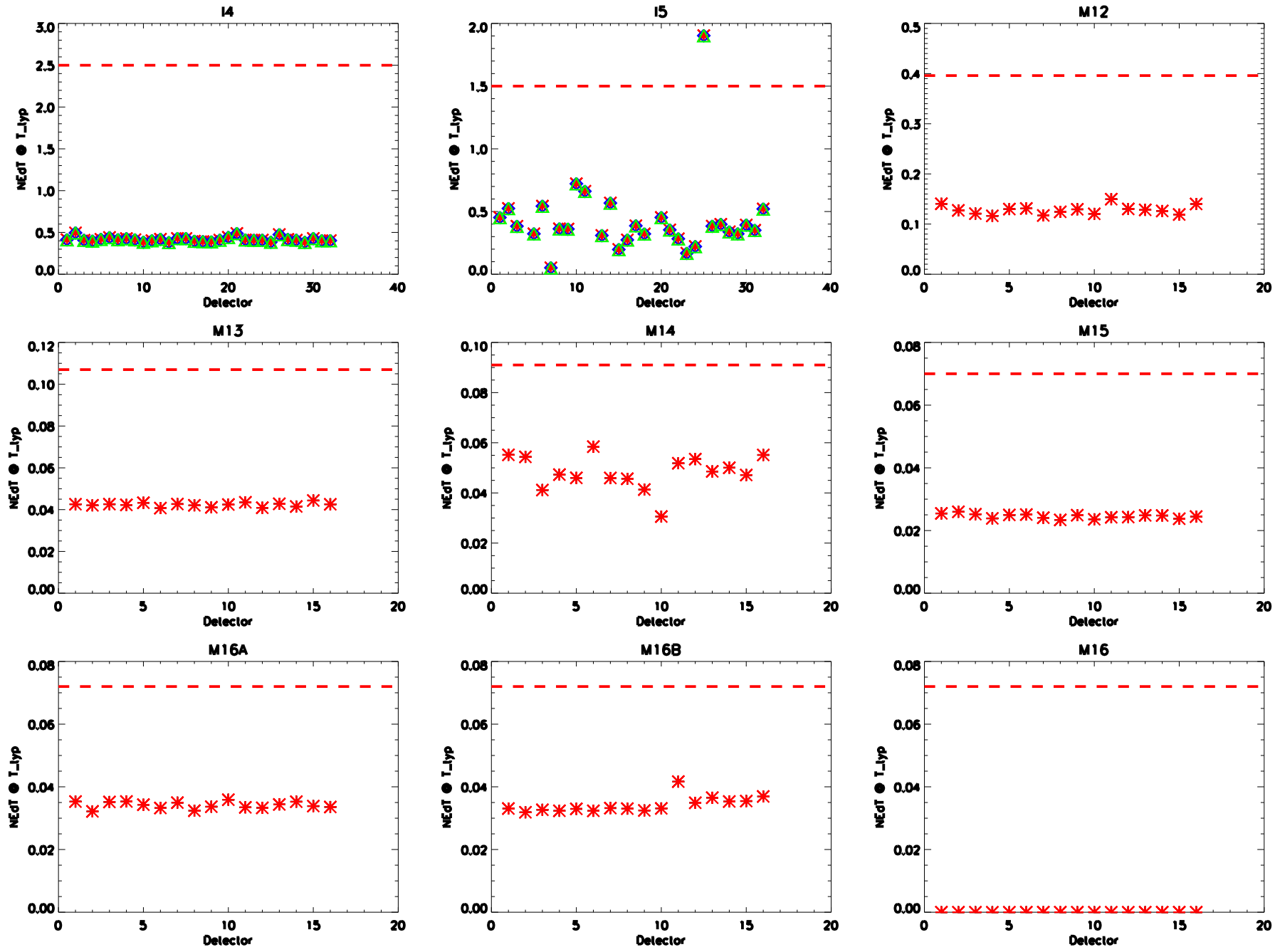


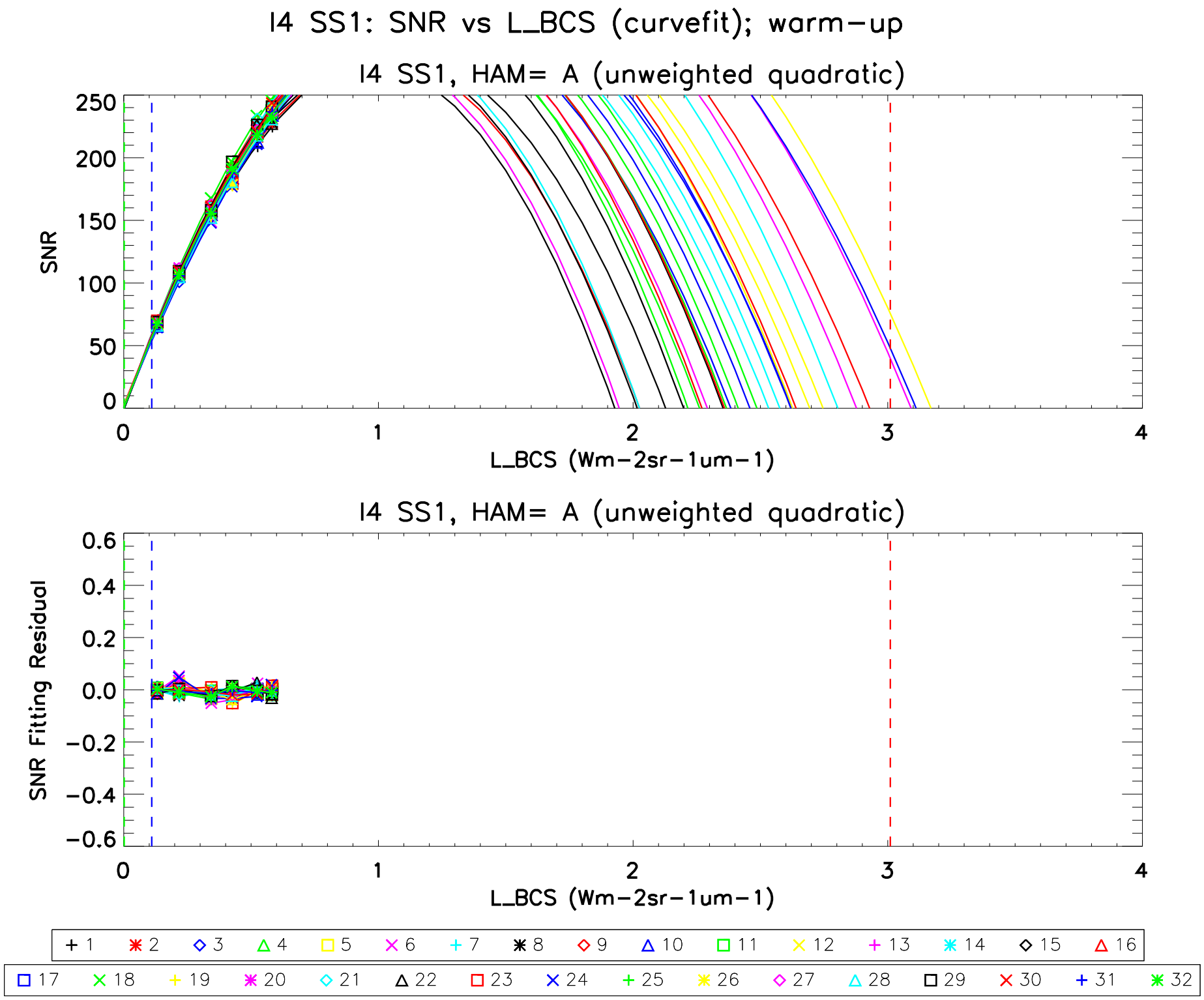
NEdT at T_typ (warm-up)

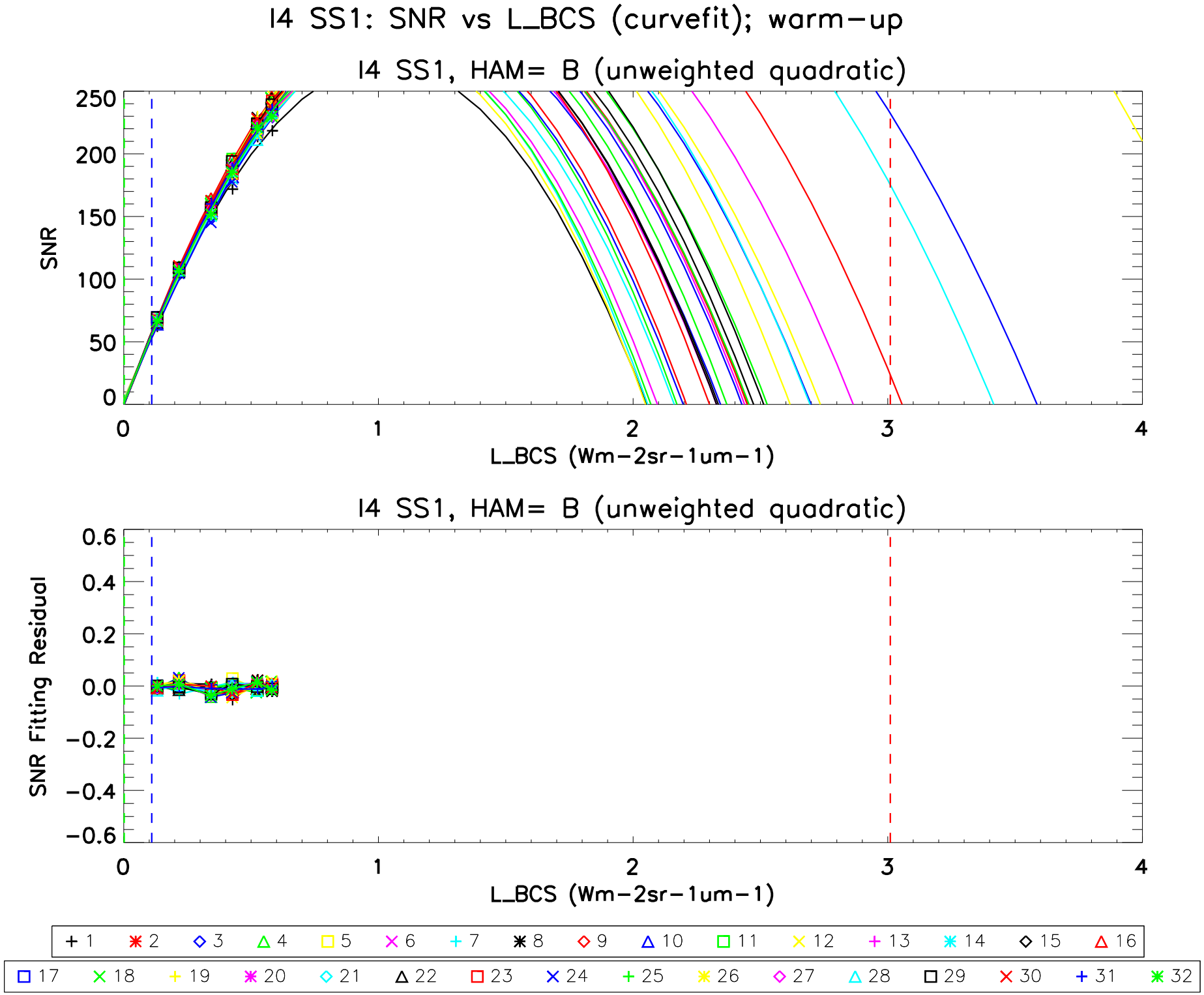


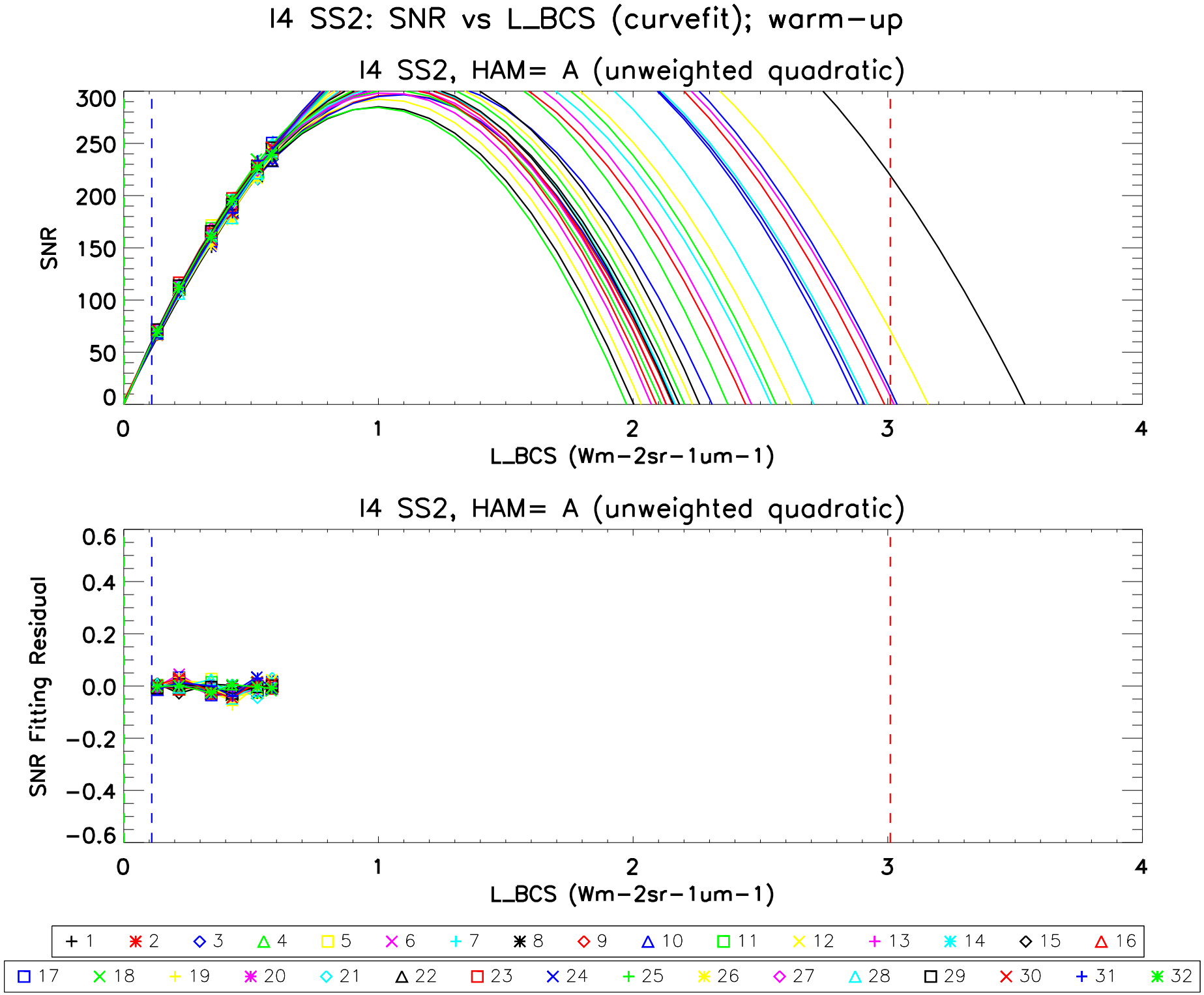
SNR at T_typ (cool-down)

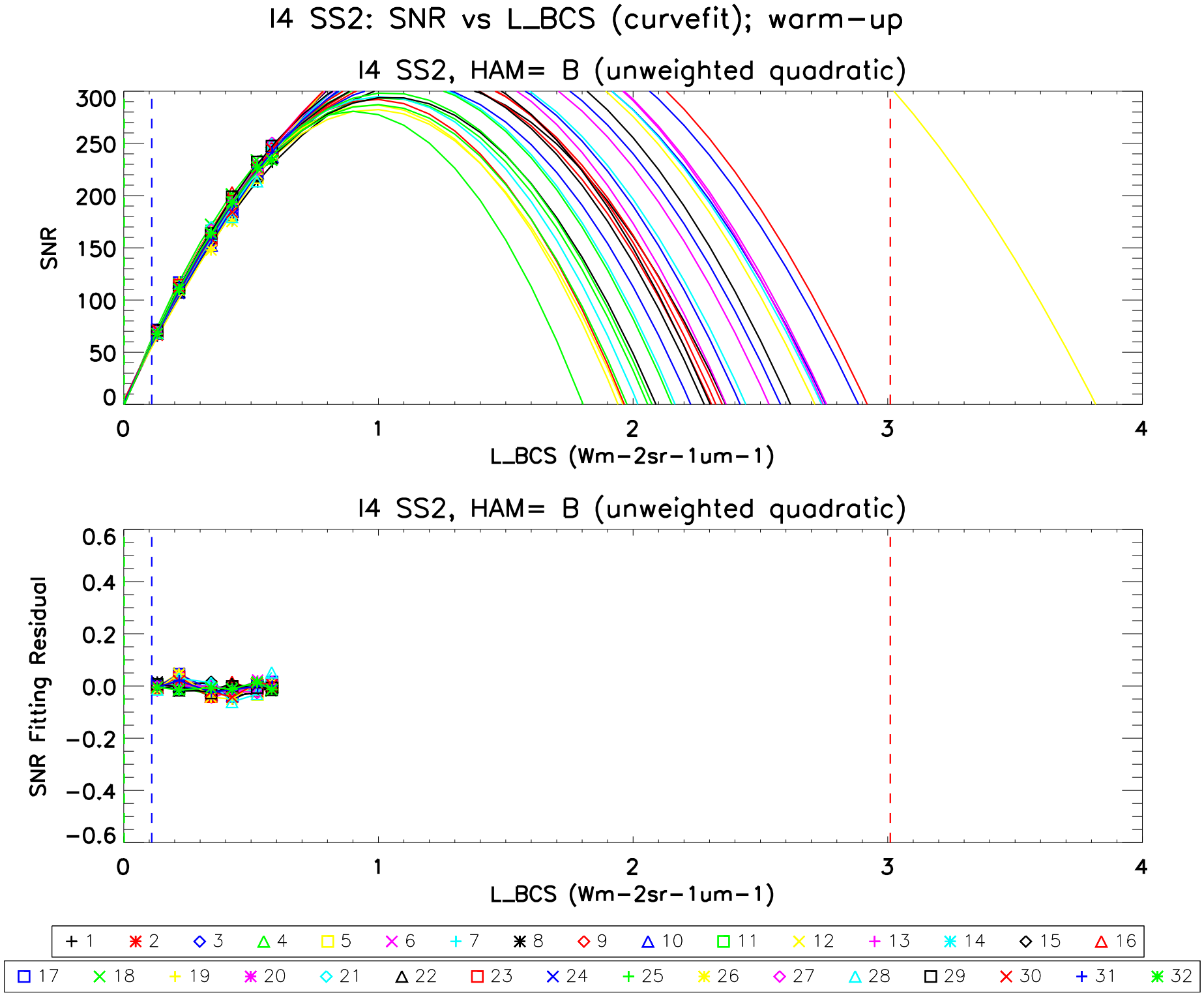


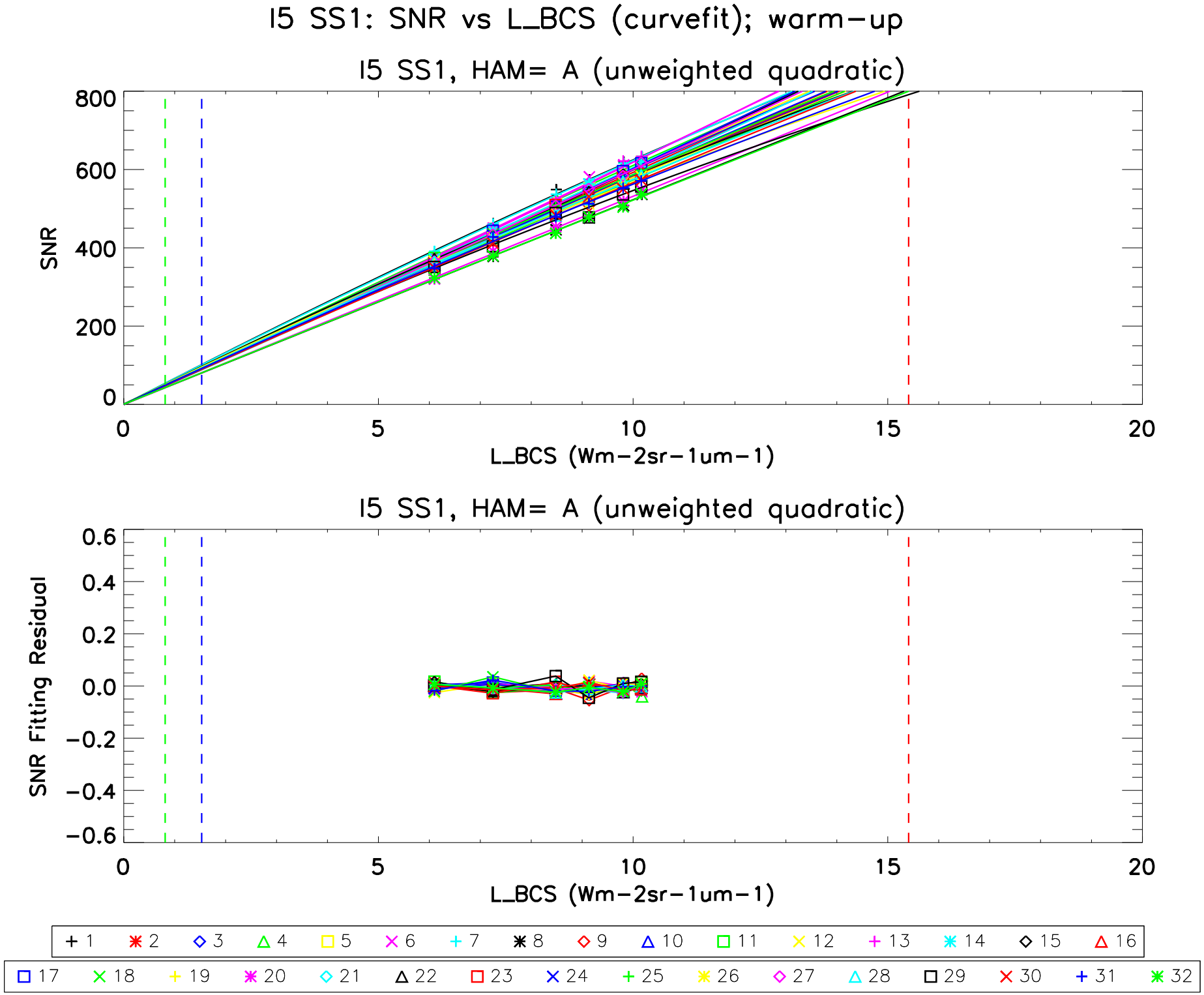

NEdT at T_typ (cool-down)
I4
I5
M12
M13
M14
M15
M16A
M16B
M16
NEdT @ T_typ
Detector
HAM A, SS1
HAM B, SS1
HAM A, SS2
HAM B, SS2

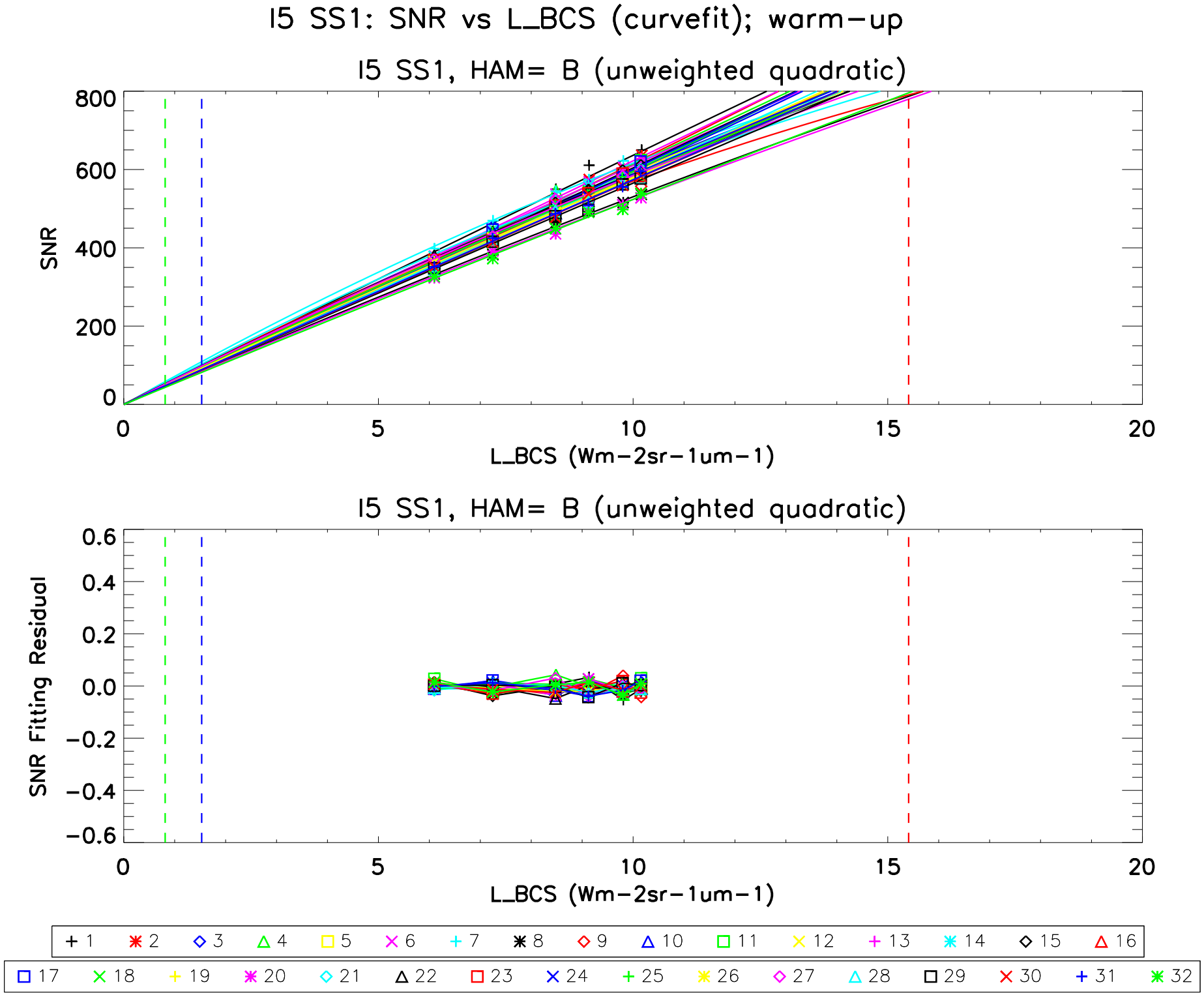

I4 SS1: SNR vs L_BCS (curvefit); warm-up
I4 SS1, HAM= A (unweighted quadratic)
SNR
250
200
150
100
50
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
I4 SS1, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

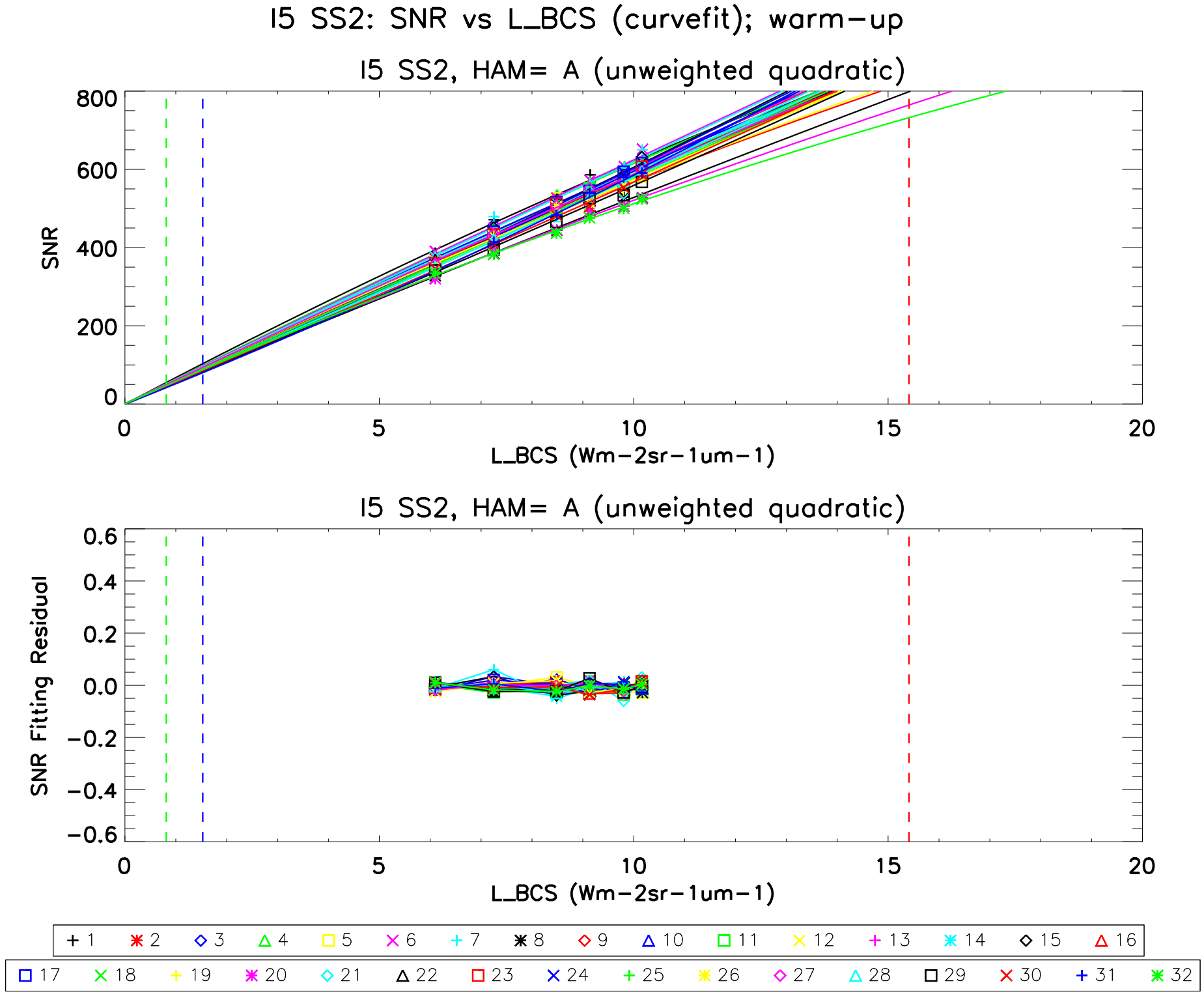

I4 SS1: SNR vs L_BCS (curvefit); warm-up
I4 SS1, HAM= B (unweighted quadratic)
SNR
250
200
150
100
50
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
I4 SS1, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

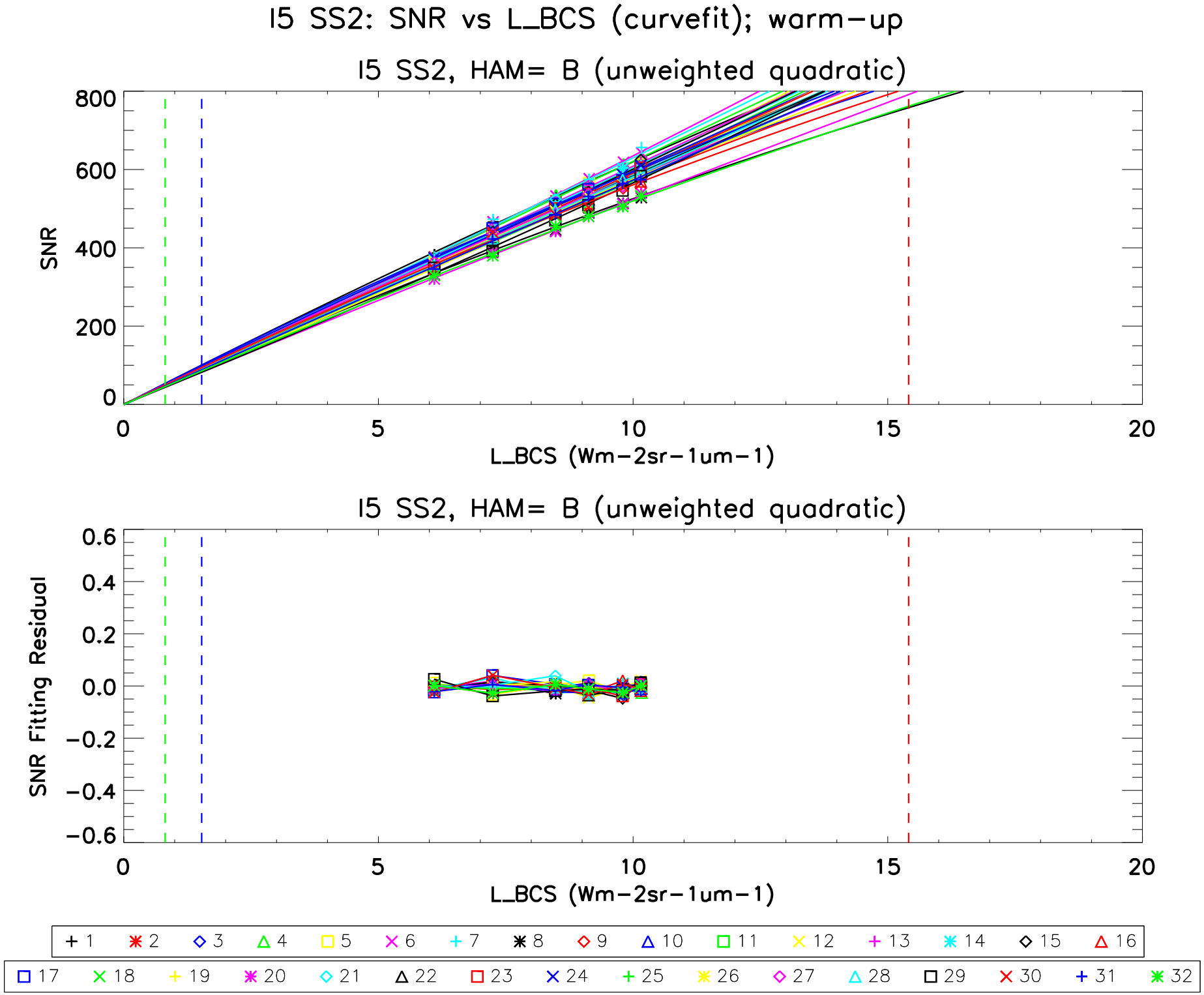

I4 SS2: SNR vs L_BCS (curvefit); warm-up
I4 SS2, HAM= A (unweighted quadratic)
SNR
300
250
200
150
100
50
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
I4 SS2, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

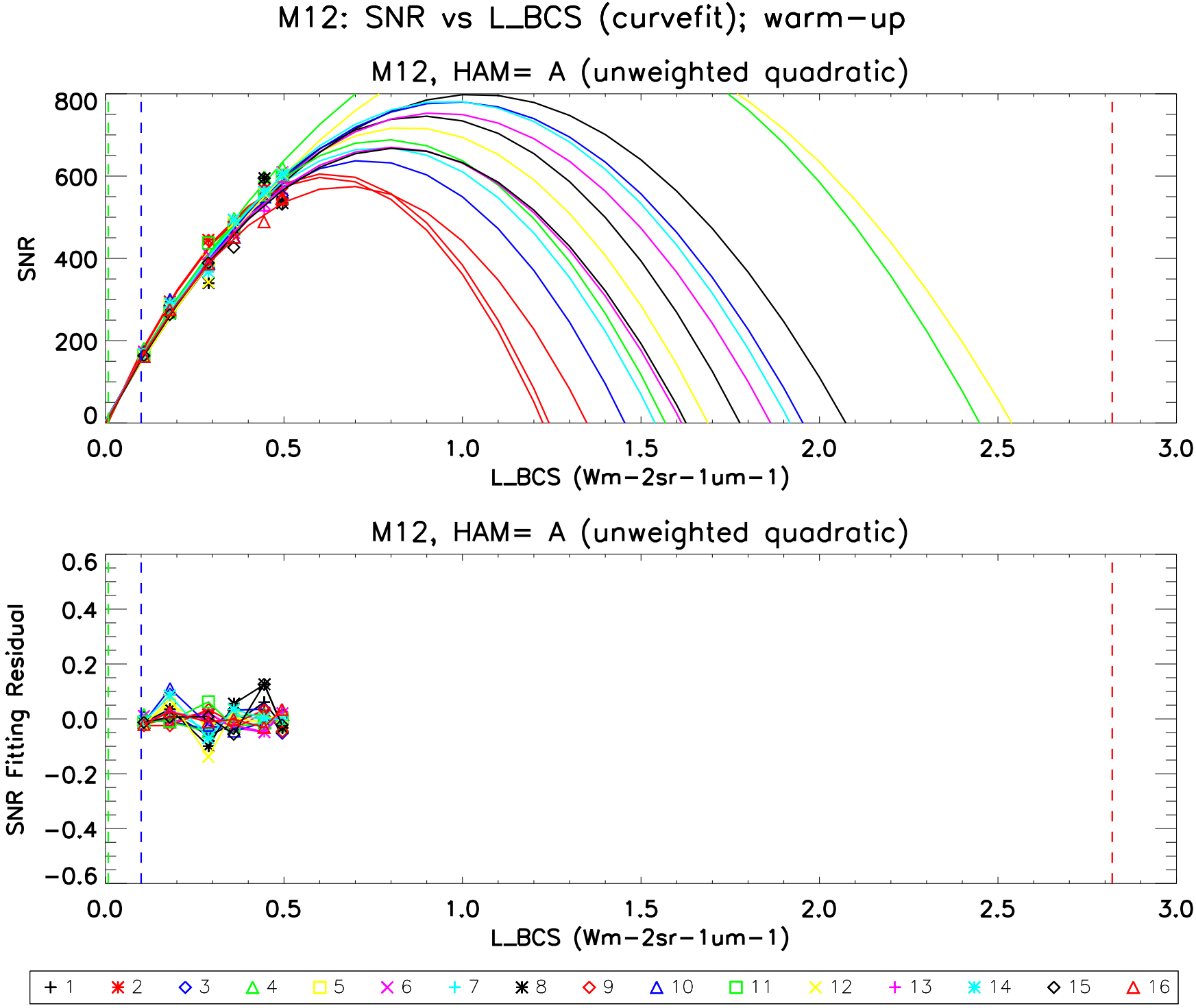

I4 SS2: SNR vs L_BCS (curvefit); warm-up
I4 SS2, HAM= B (unweighted quadratic)
SNR
300
250
200
150
100
50
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
I4 SS2, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

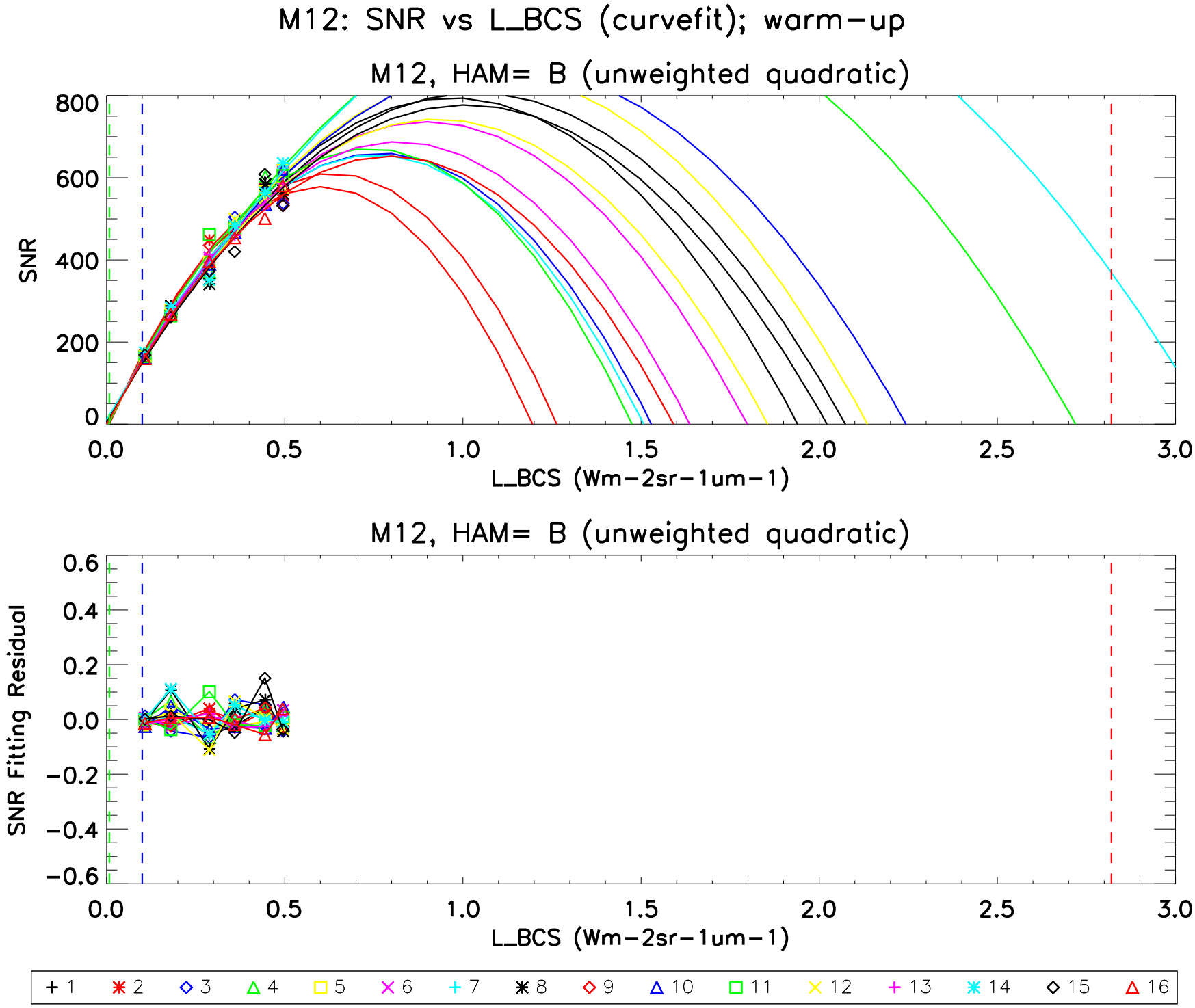

I5 SS1: SNR vs L_BCS (curvefit); warm-up
I5 SS1, HAM= A (unweighted quadratic)
SNR
800
600
400
200
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
I5 SS1, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

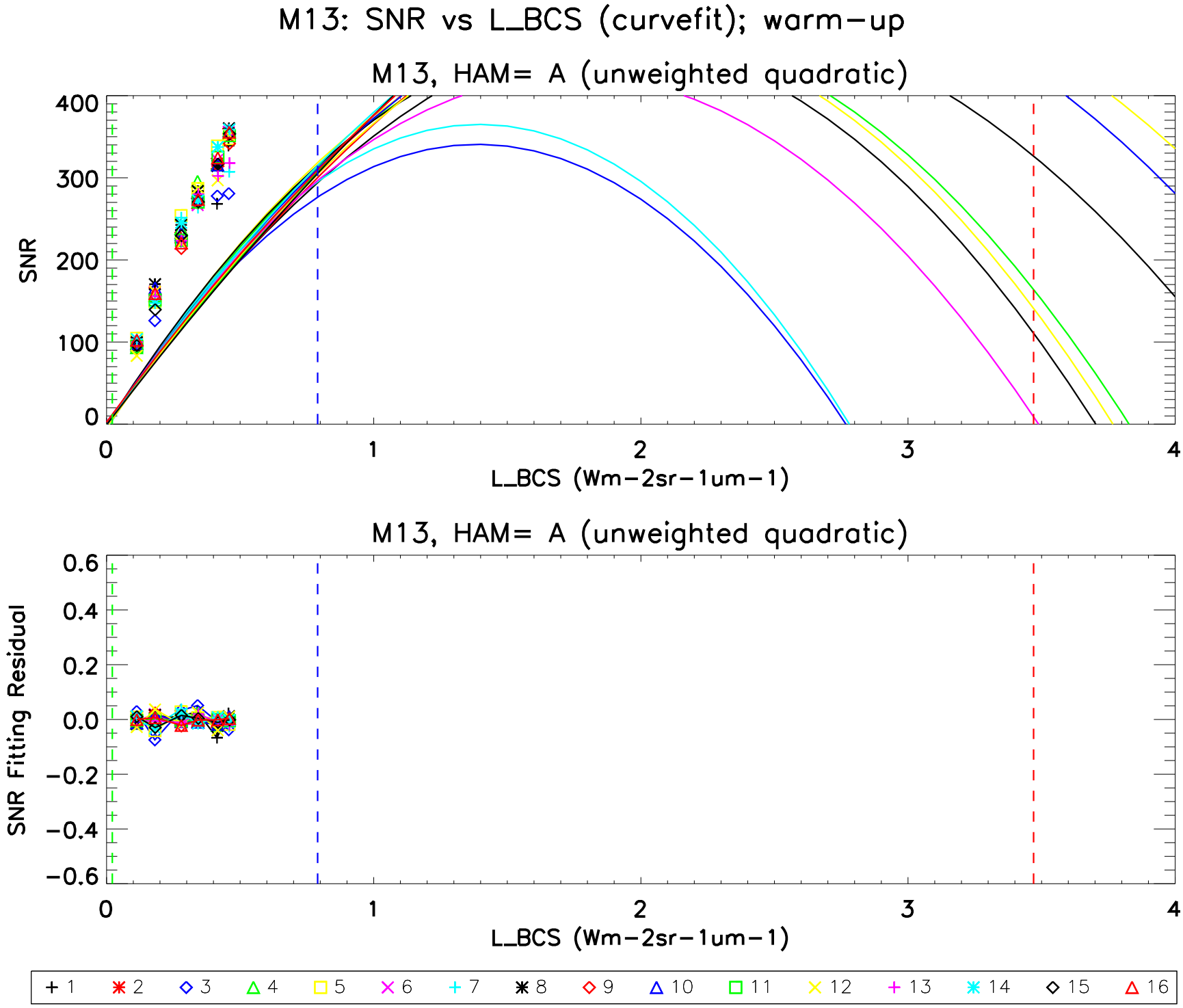

I5 SS1: SNR vs L_BCS (curvefit); warm-up
I5 SS1, HAM= B (unweighted quadratic)
SNR
L_BCS (Wm-2sr-1um-1)
I5 SS1, HAM= B (unweighted quadratic)
SNR Fitting Residual
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

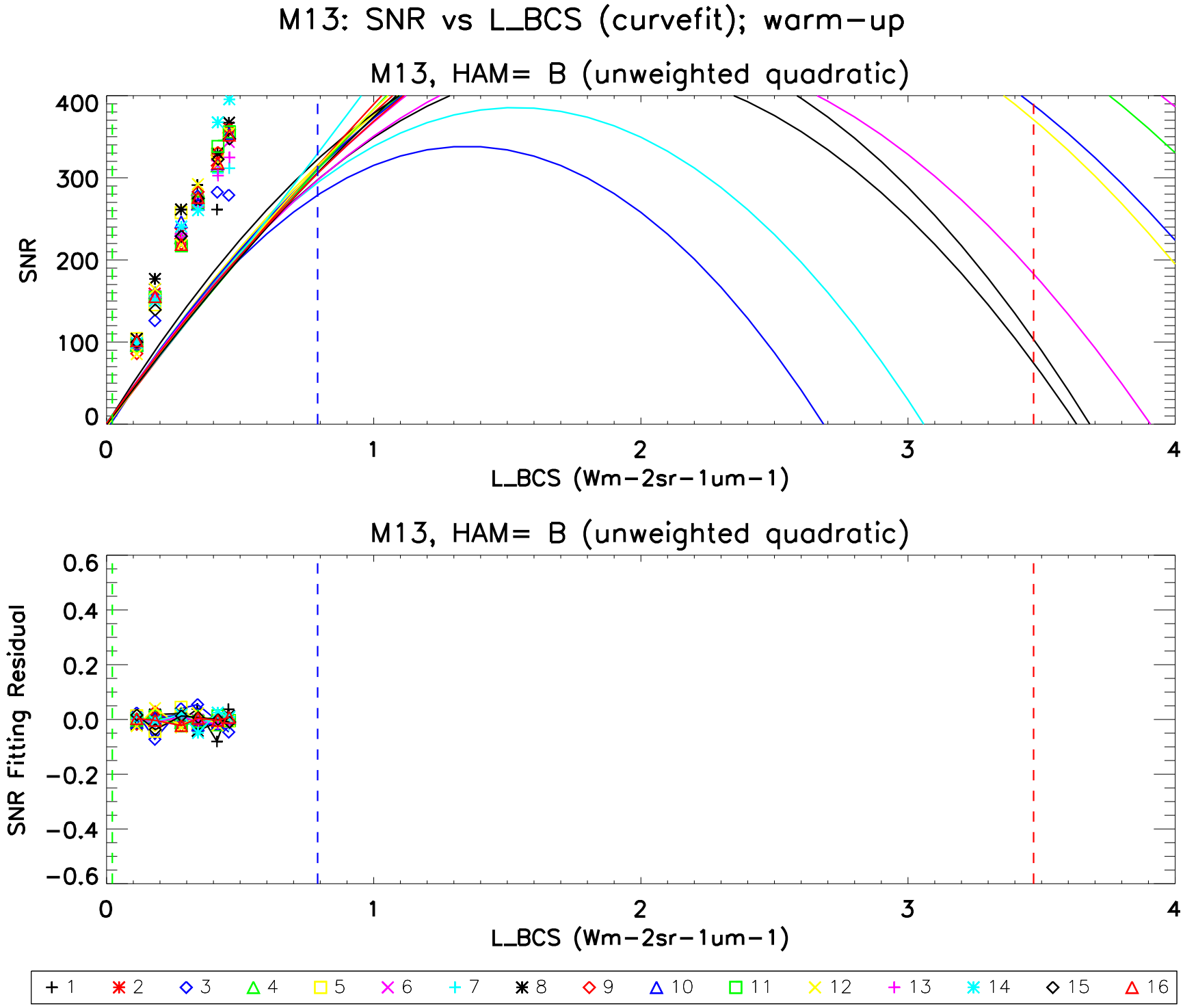

I5 SS2: SNR vs L_BCS (curvefit); warm-up
I5 SS2, HAM= A (unweighted quadratic)
SNR
800
600
400
200
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
I5 SS2, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

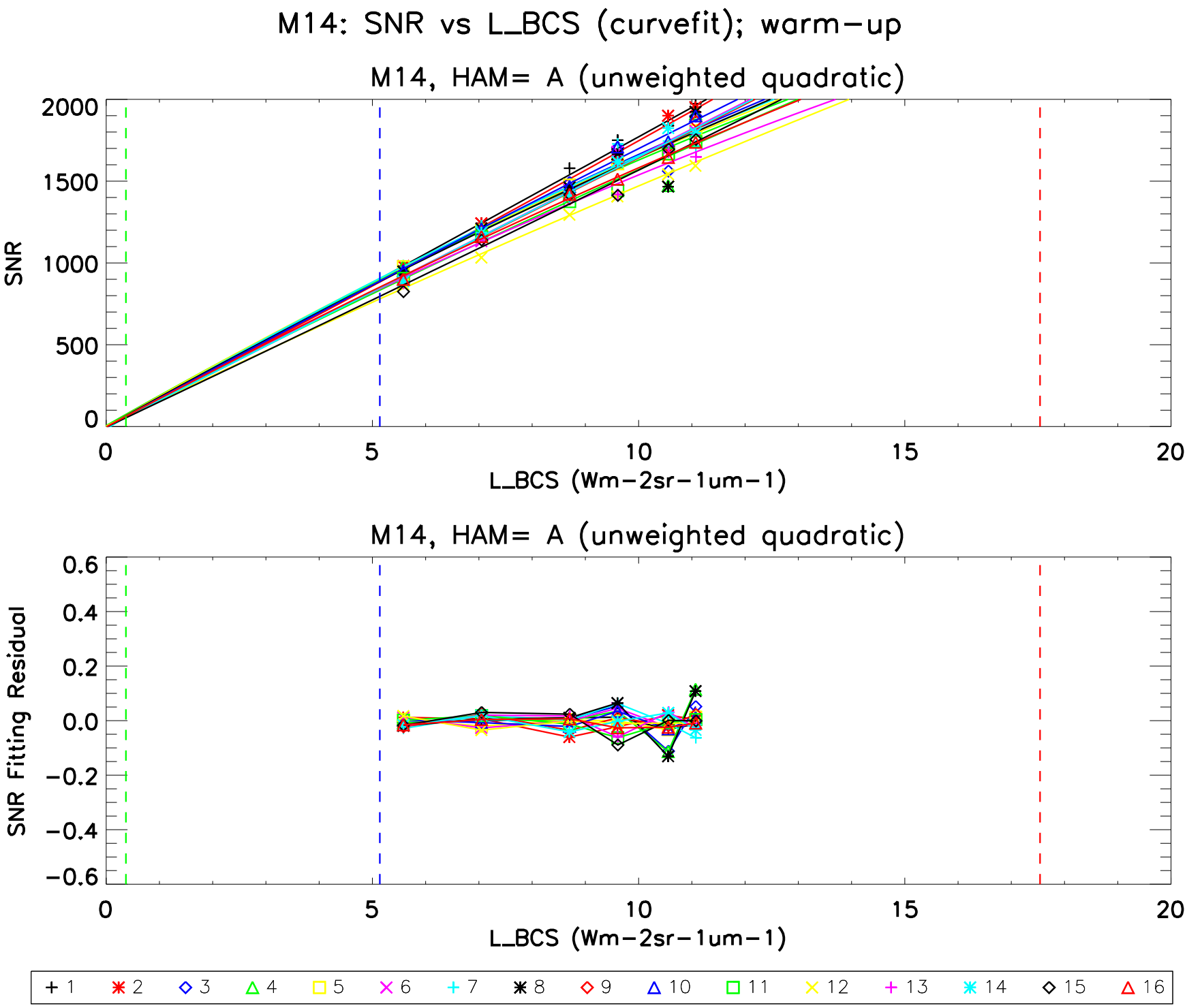

I5 SS2: SNR vs L_BCS (curvefit); warm-up
I5 SS2, HAM= B (unweighted quadratic)
SNR
800
600
400
200
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
I5 SS2, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

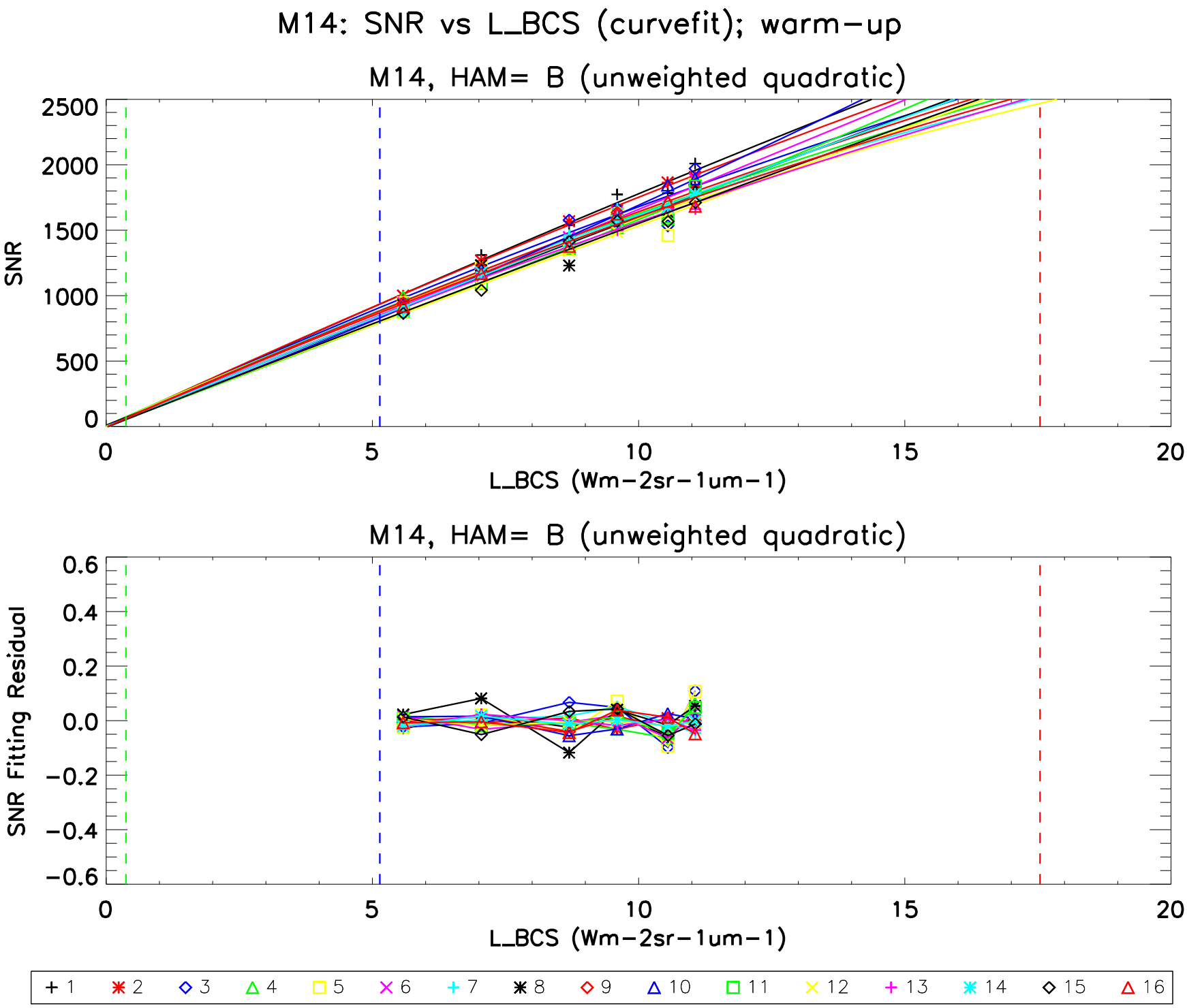

M12: SNR vs L_BCS (curvefit); warm-up
M12, HAM= A (unweighted quadratic)
SNR
800
600
400
200
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
M12, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

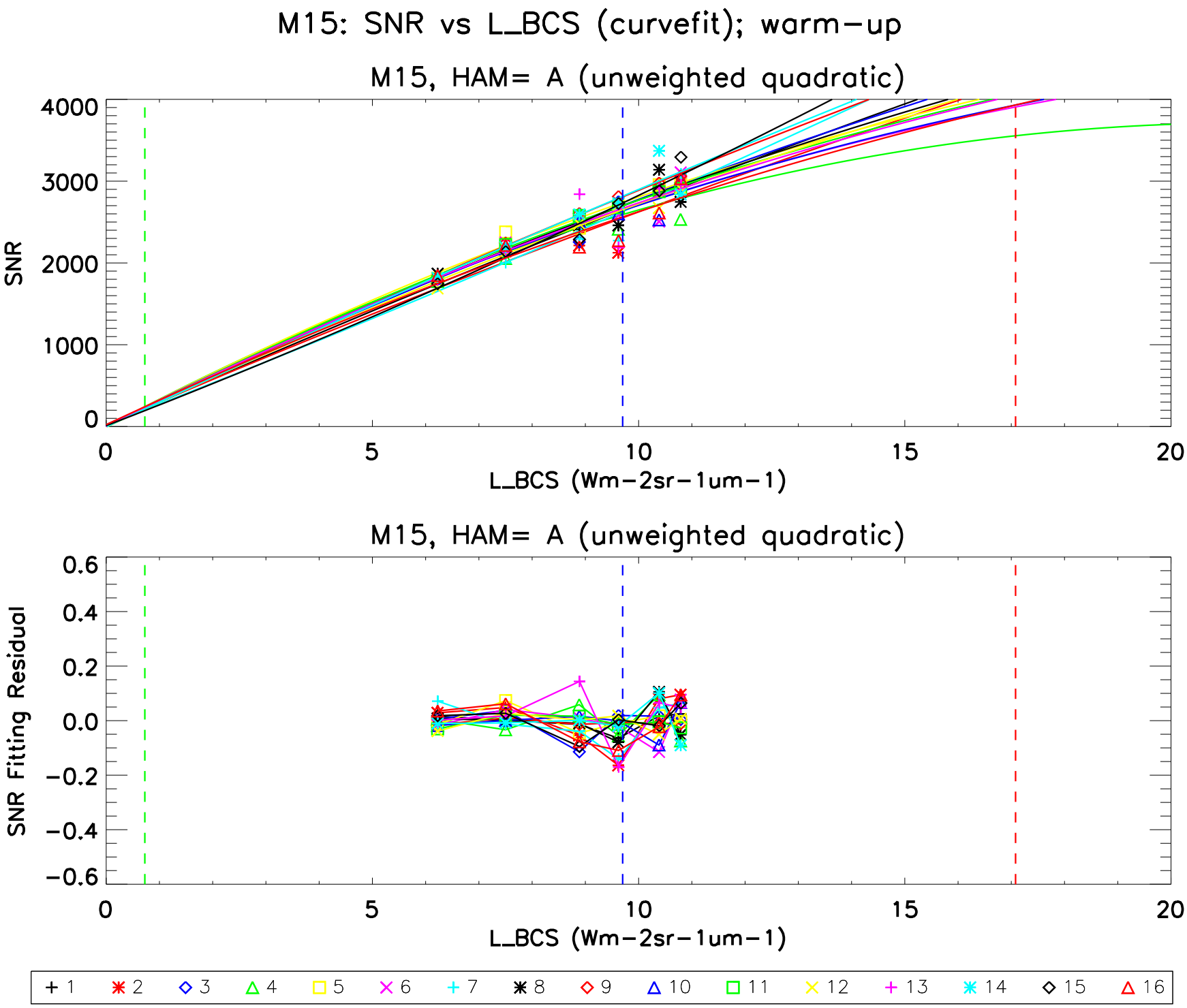

M12: SNR vs L_BCS (curvefit); warm-up
M12, HAM= B (unweighted quadratic)
SNR
800
600
400
200
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
M12, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16


M13: SNR vs L_BCS (curvefit); warm-up
M13, HAM= A (unweighted quadratic)
SNR
400
300
200
100
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
M13, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

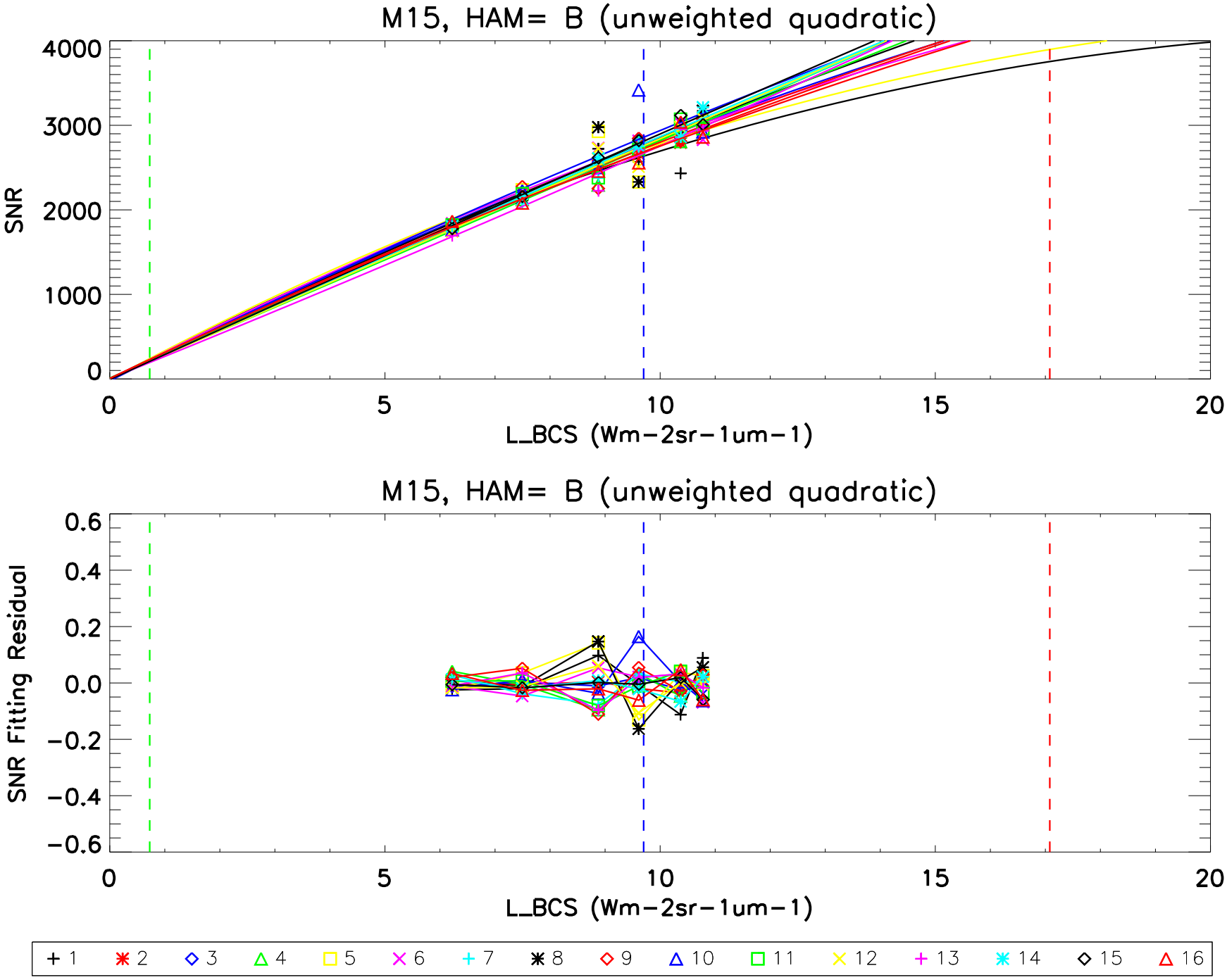

M13: SNR vs L_BCS (curvefit); warm-up
M13, HAM= B (unweighted quadratic)
SNR
L_BCS (Wm-2sr-1um-1)
M13, HAM= B (unweighted quadratic)
SNR Fitting Residual
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

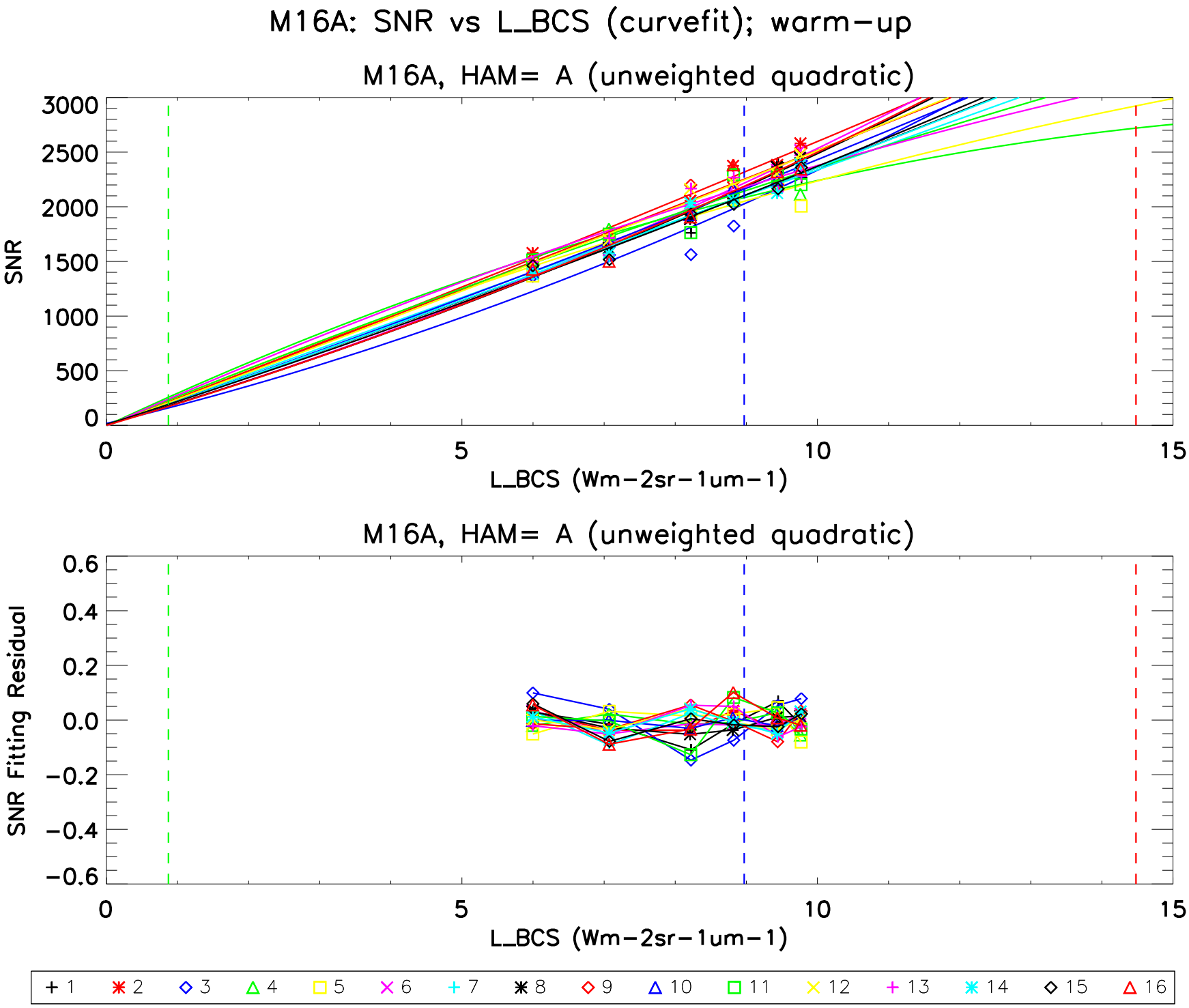

M14: SNR vs L_BCS (curvefit); warm-up
M14, HAM= A (unweighted quadratic)
SNR
2000
1500
1000
500
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
M14, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

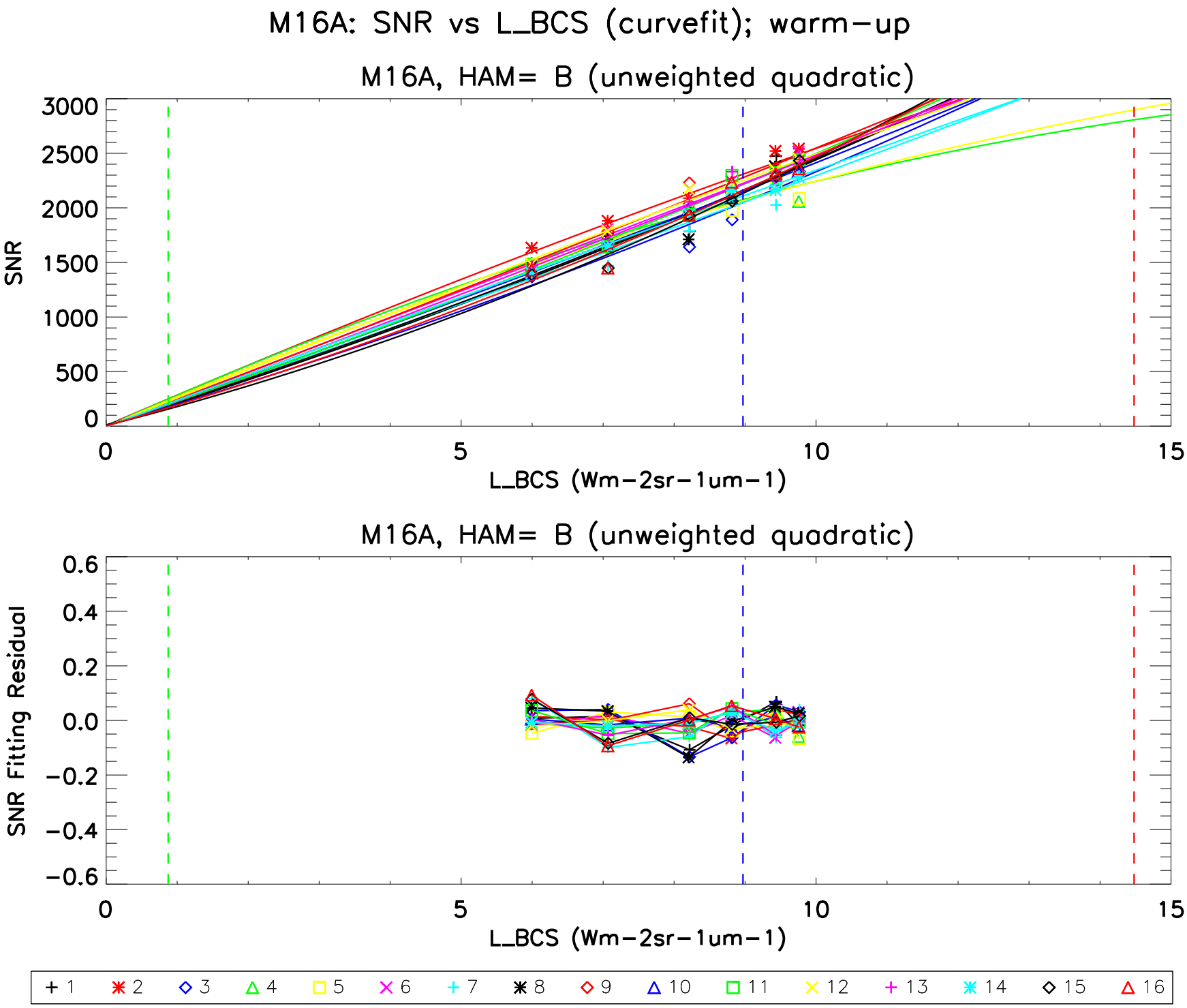

M14: SNR vs L_BCS (curvefit); warm-up
M14, HAM= B (unweighted quadratic)
SNR
2500
2000
1500
1000
500
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
M14, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

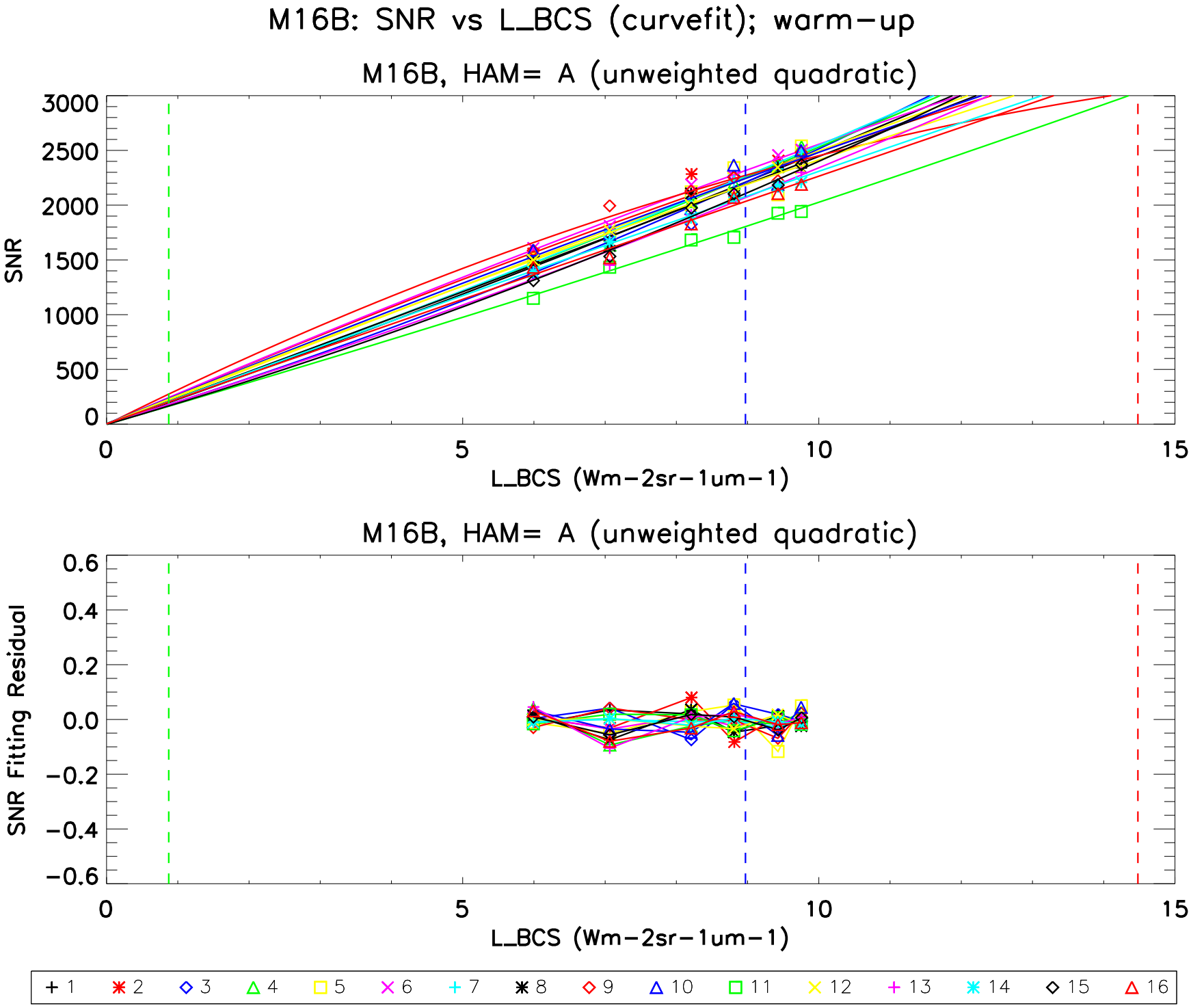

M15: SNR vs L_BCS (curvefit); warm-up
M15, HAM= A (unweighted quadratic)
SNR
4000
3000
2000
1000
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
M15, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

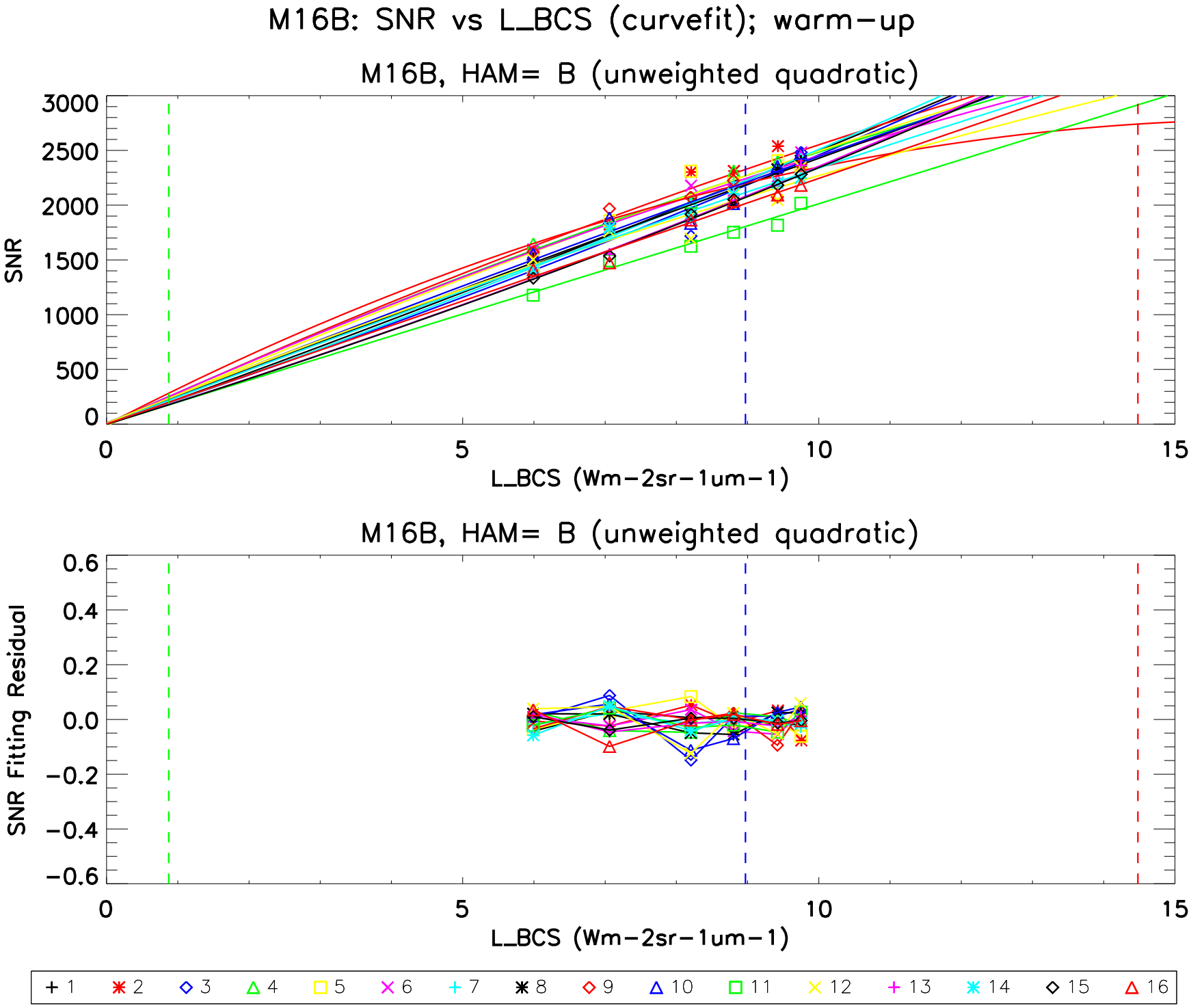
M15: SNR vs L_BCS (curvefit); warm-up

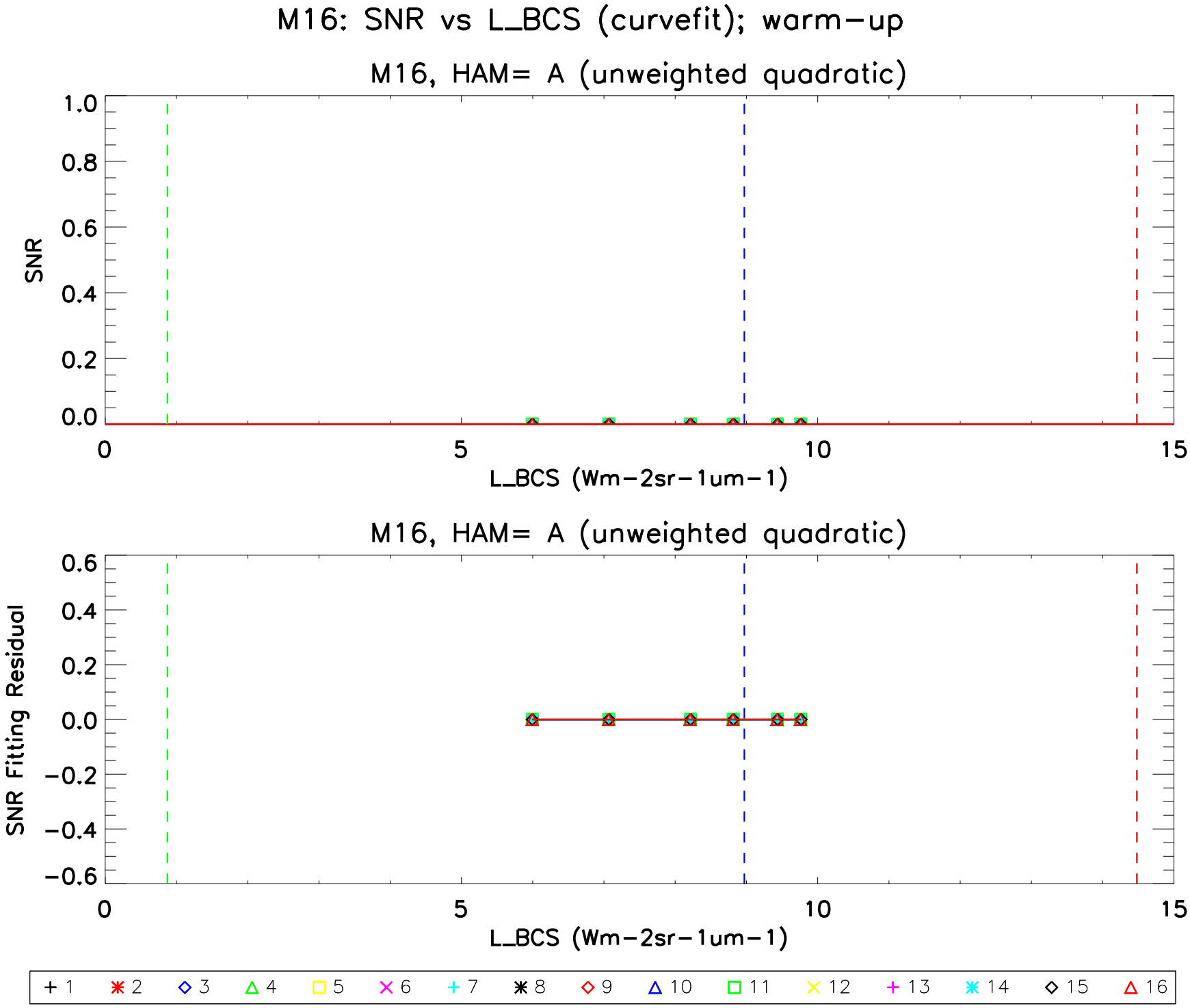


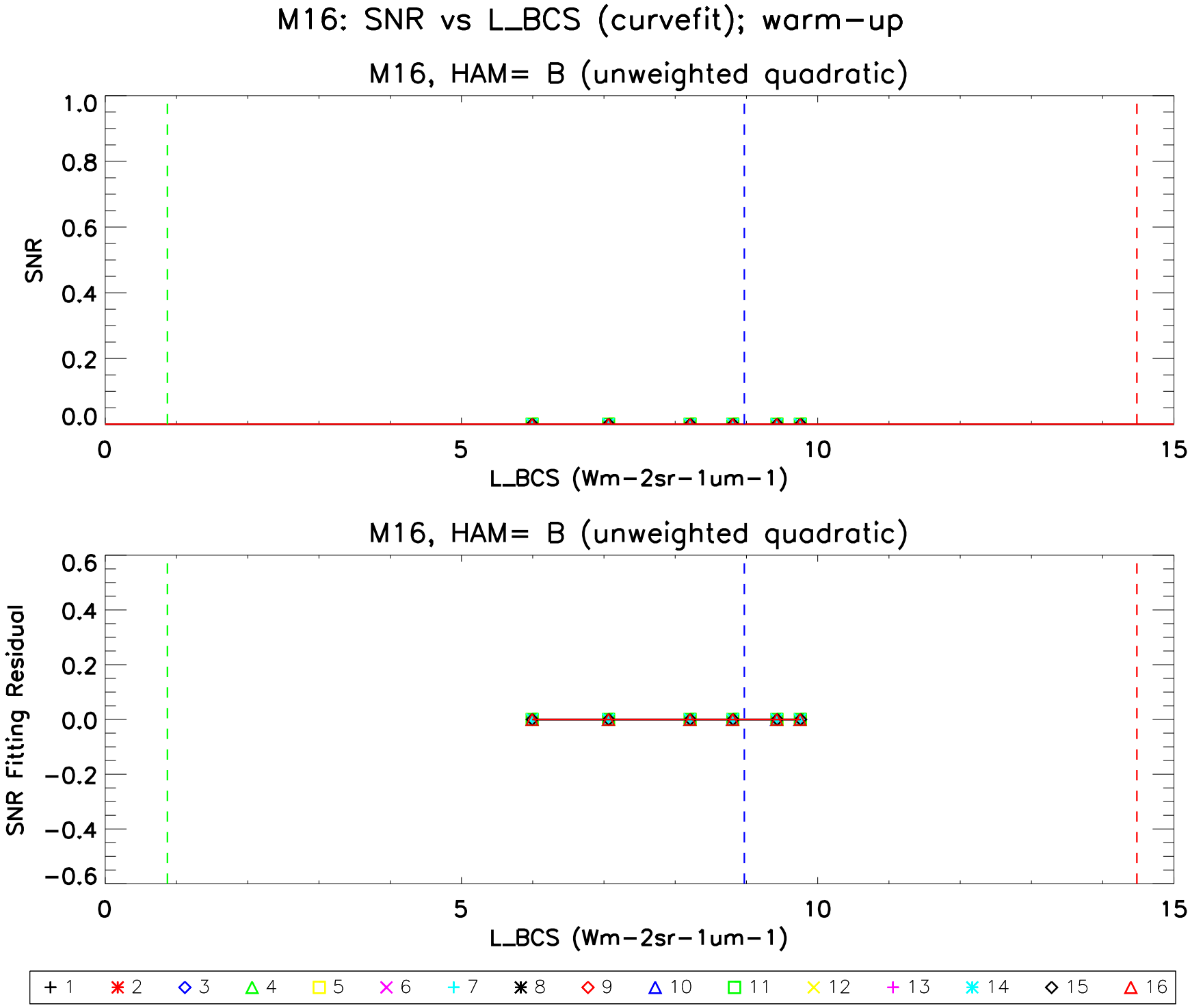

M16A: SNR vs L_BCS (curvefit); warm-up
M16A, HAM= A (unweighted quadratic)
SNR
3000
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16A, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

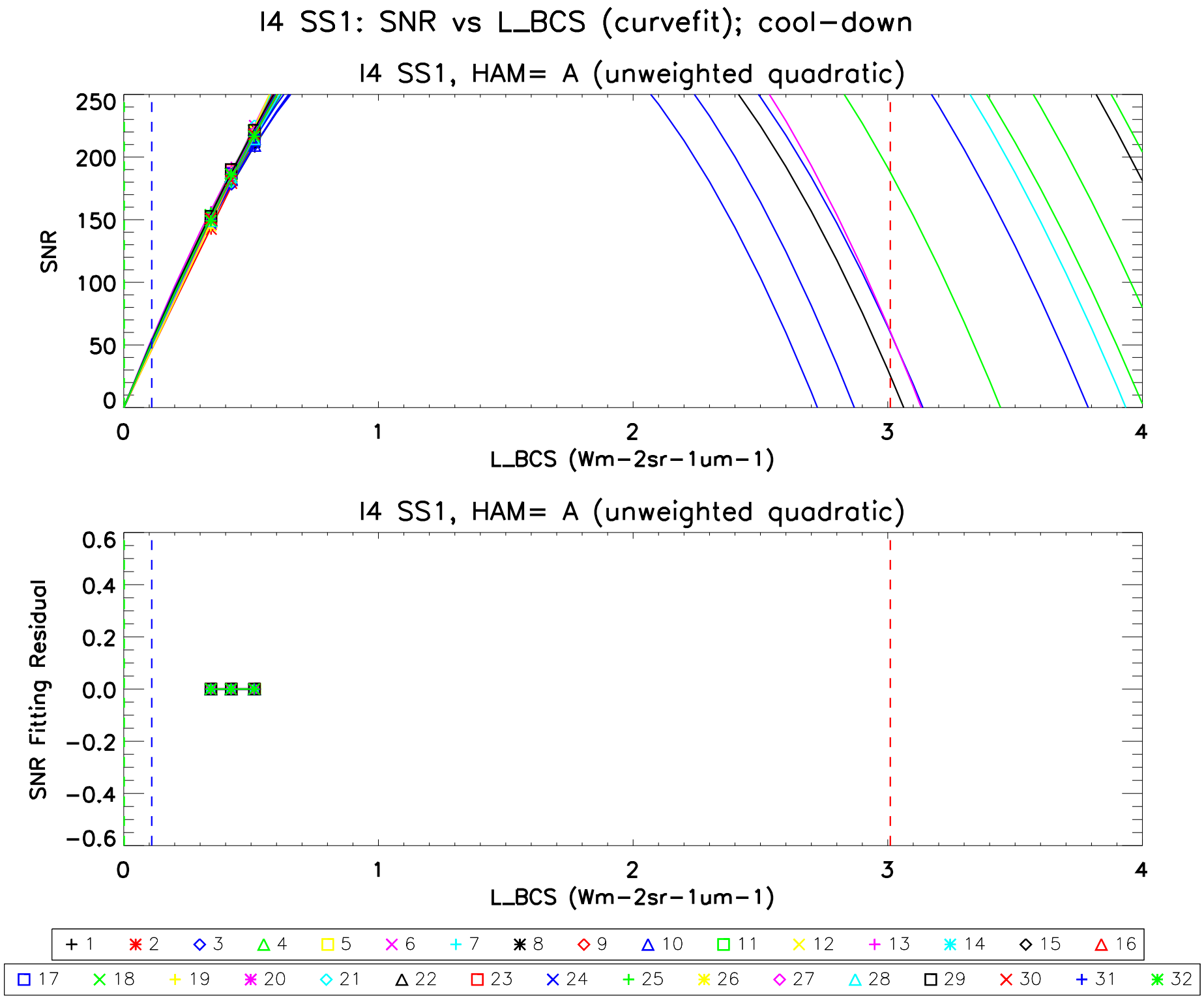

M16A: SNR vs L_BCS (curvefit); warm-up
M16A, HAM= B (unweighted quadratic)
SNR
3000
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16A, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

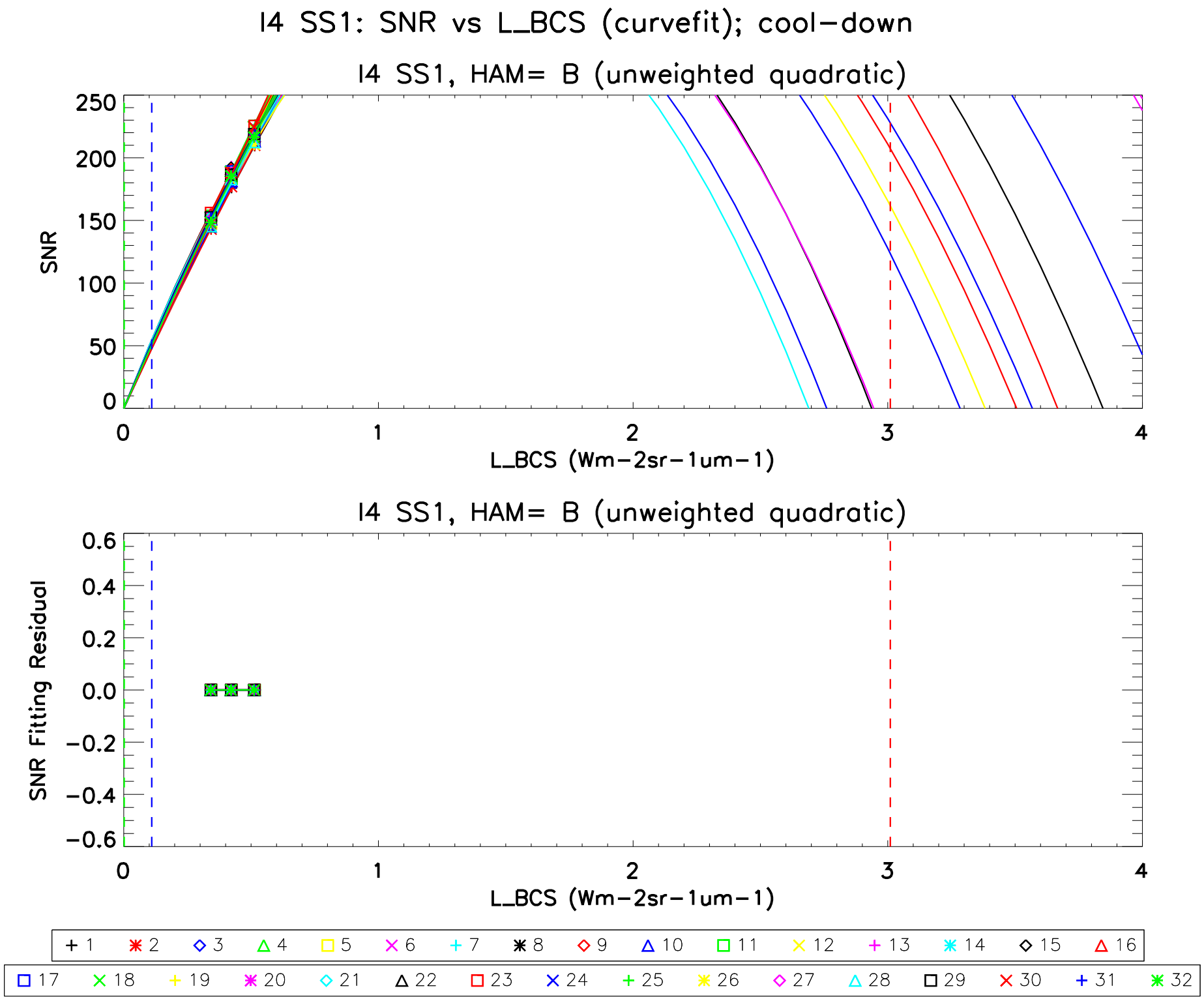

M16B: SNR vs L_BCS (curvefit); warm-up
M16B, HAM= A (unweighted quadratic)
SNR
3000
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16B, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

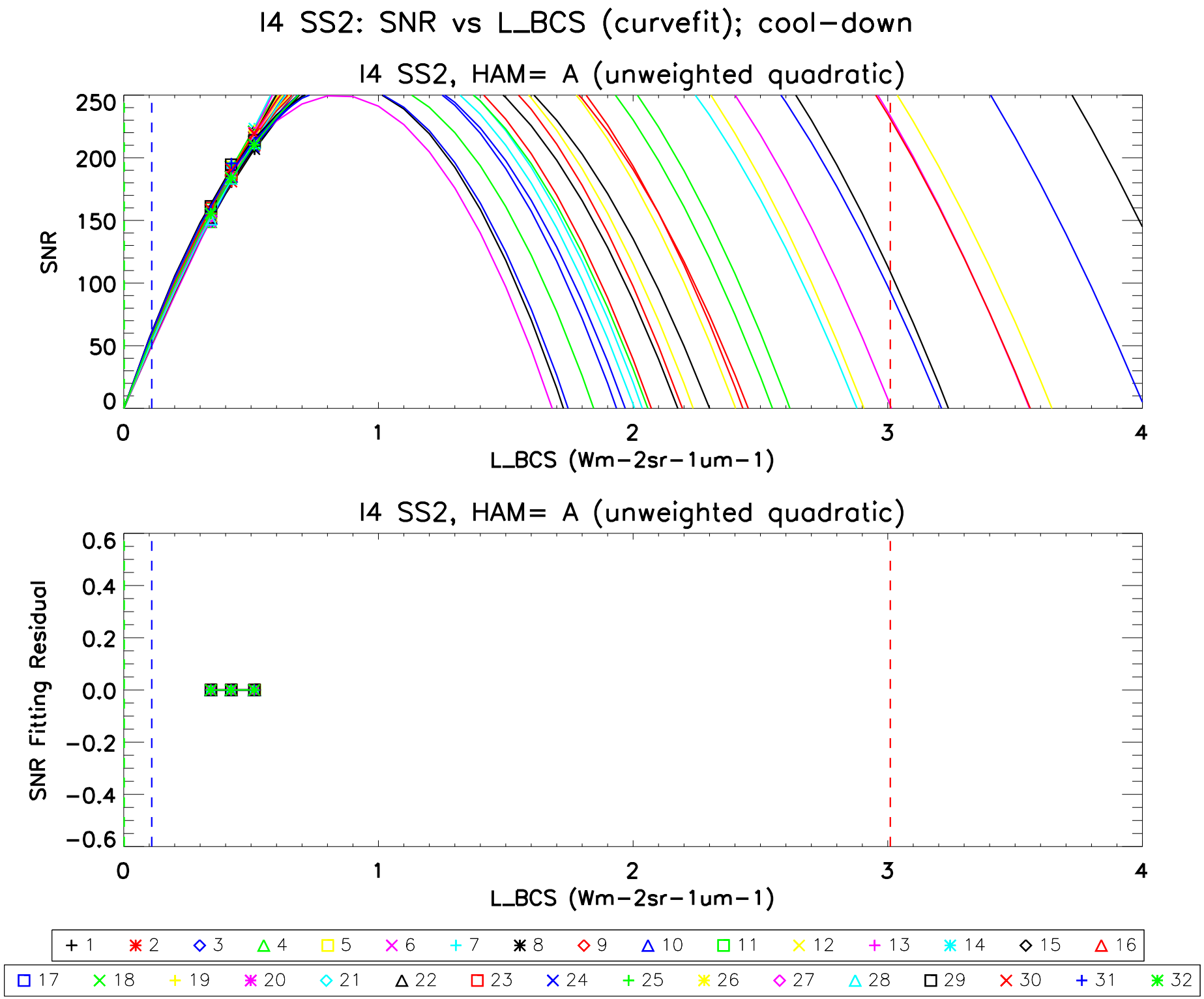

M16B: SNR vs L_BCS (curvefit); warm-up
M16B, HAM= B (unweighted quadratic)
SNR
3000
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16B, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16


M16: SNR vs L_BCS (curvefit); warm-up
M16, HAM= A (unweighted quadratic)
SNR
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

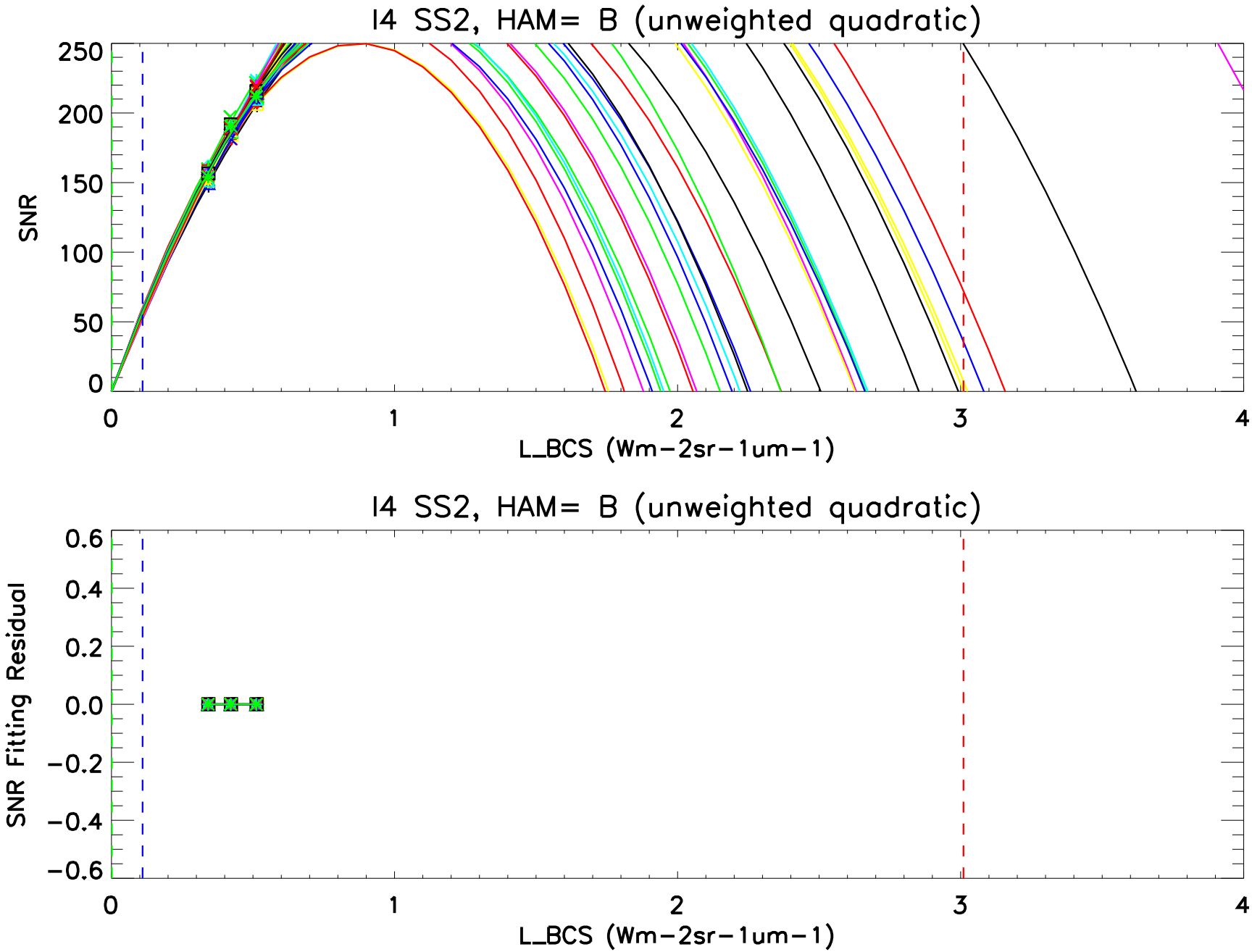

M16: SNR vs L_BCS (curvefit); warm-up
M16, HAM= B (unweighted quadratic)
SNR
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

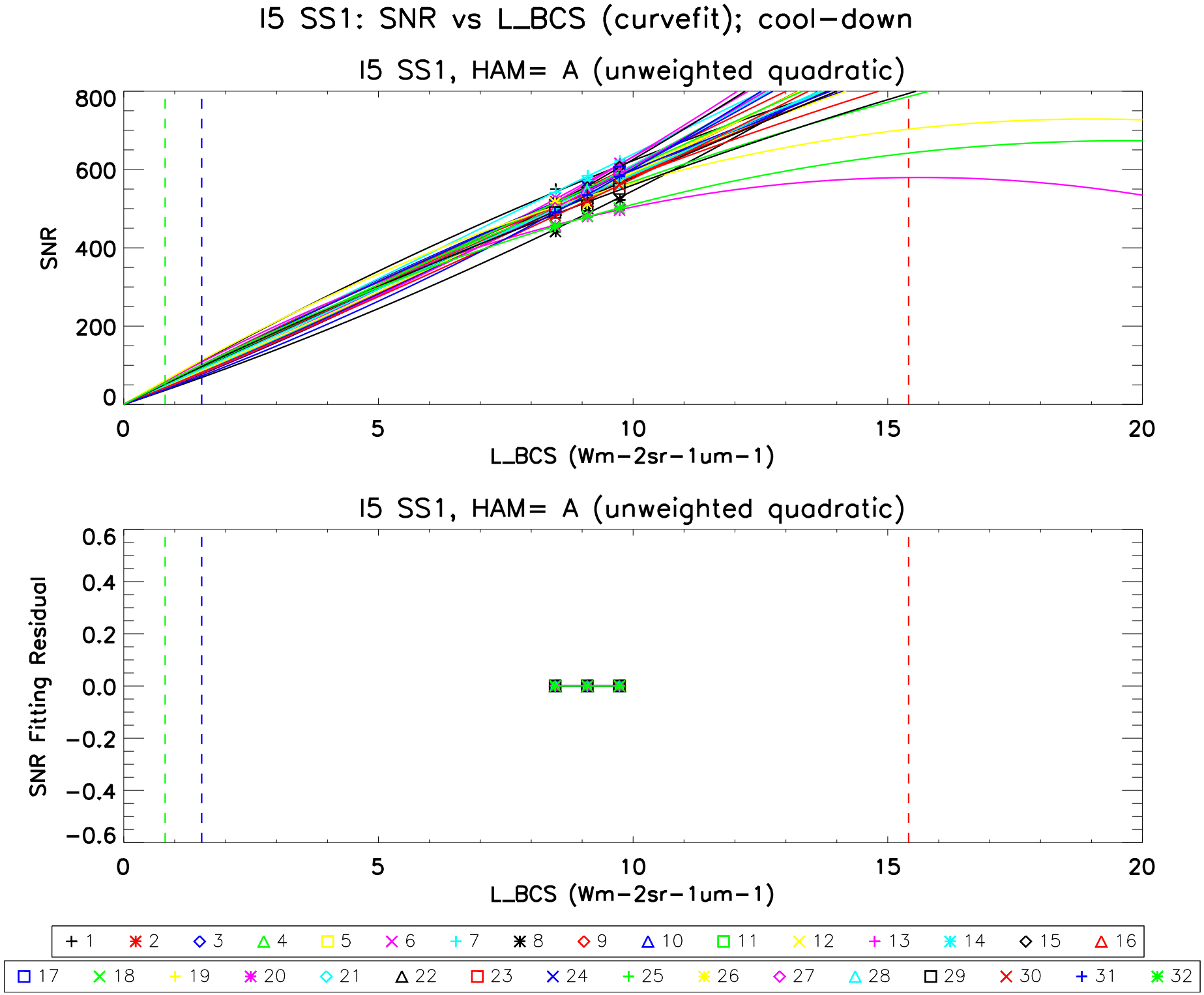

I4 SS1: SNR vs L_BCS (curvefit); cool-down
I4 SS1, HAM= A (unweighted quadratic)
SNR
250
200
150
100
50
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
I4 SS1, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

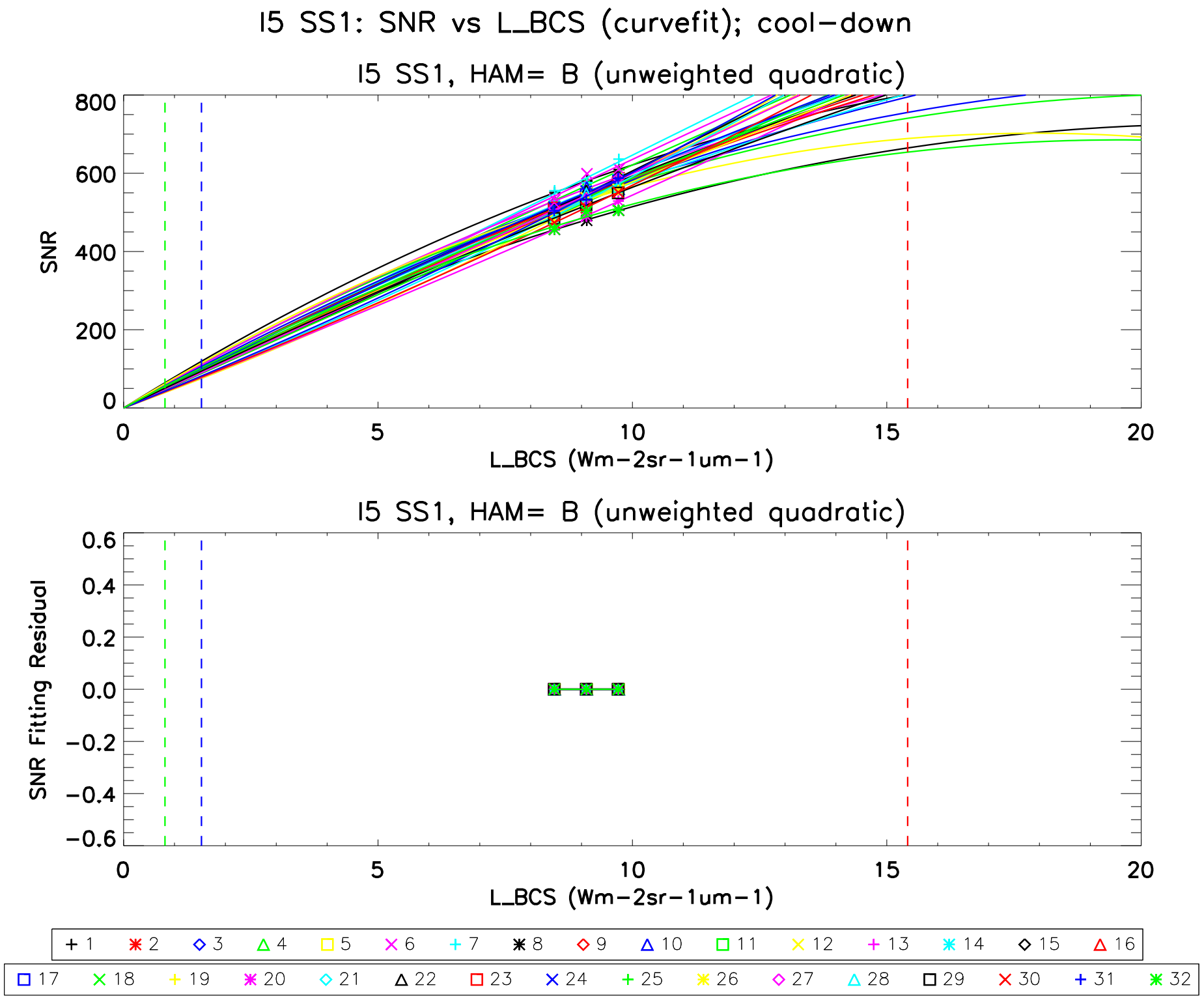

I4 SS1: SNR vs L_BCS (curvefit); cool-down
I4 SS1, HAM= B (unweighted quadratic)
SNR
250
200
150
100
50
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
I4 SS1, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

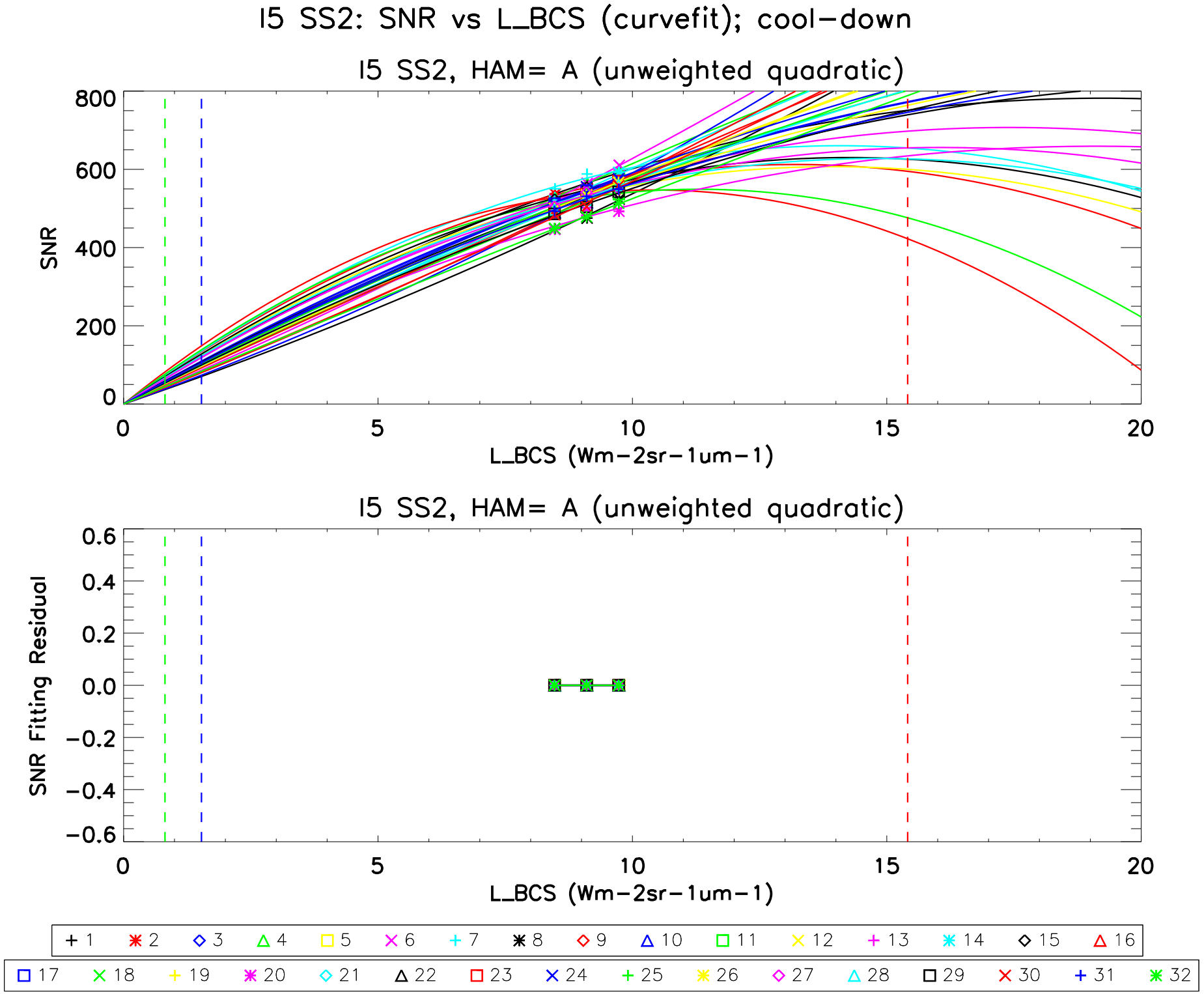

I4 SS2: SNR vs L_BCS (curvefit); cool-down
I4 SS2, HAM= A (unweighted quadratic)
SNR
250
200
150
100
50
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
I4 SS2, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

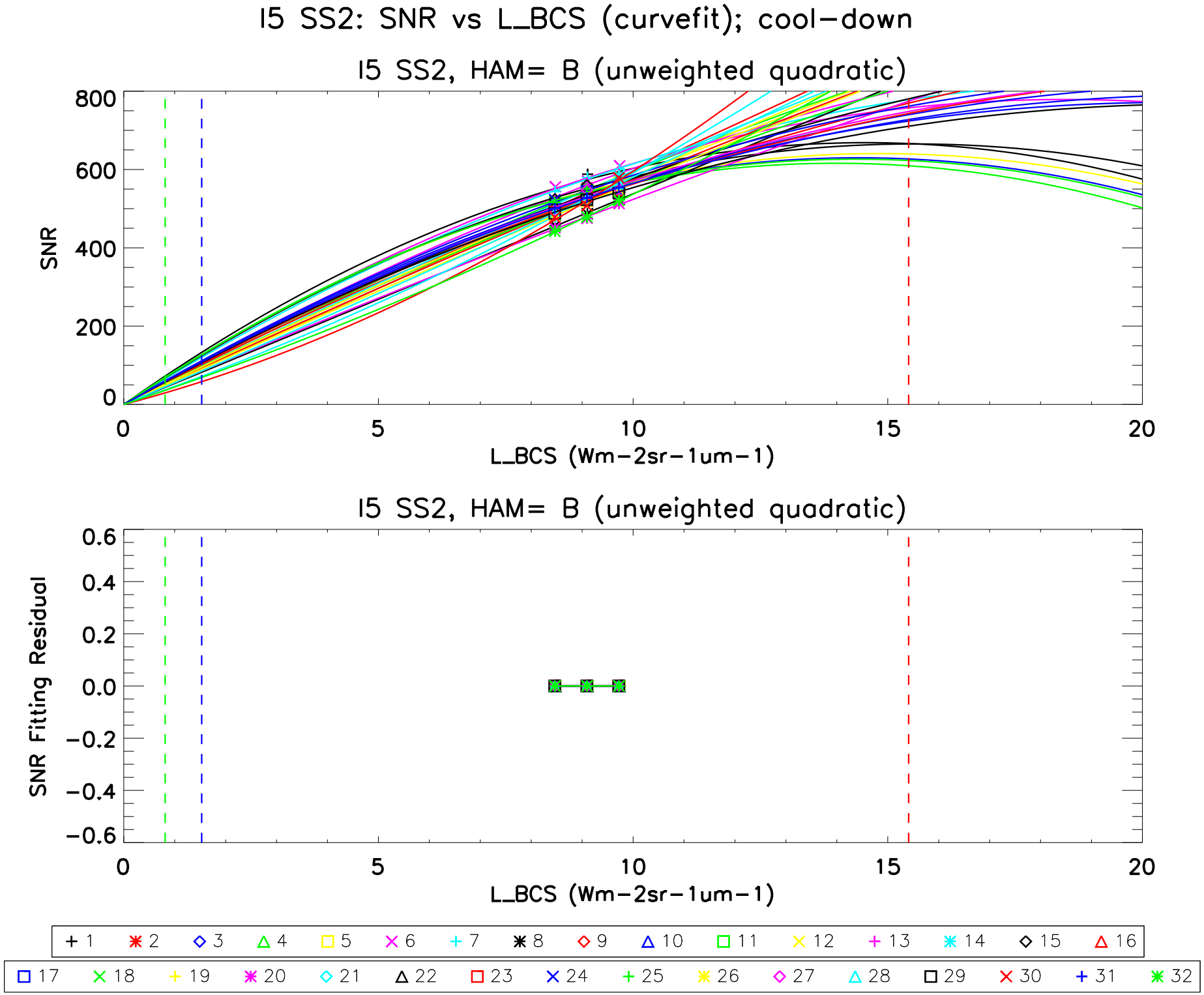
I4 SS2: SNR vs L_BCS (curvefit); cool-down

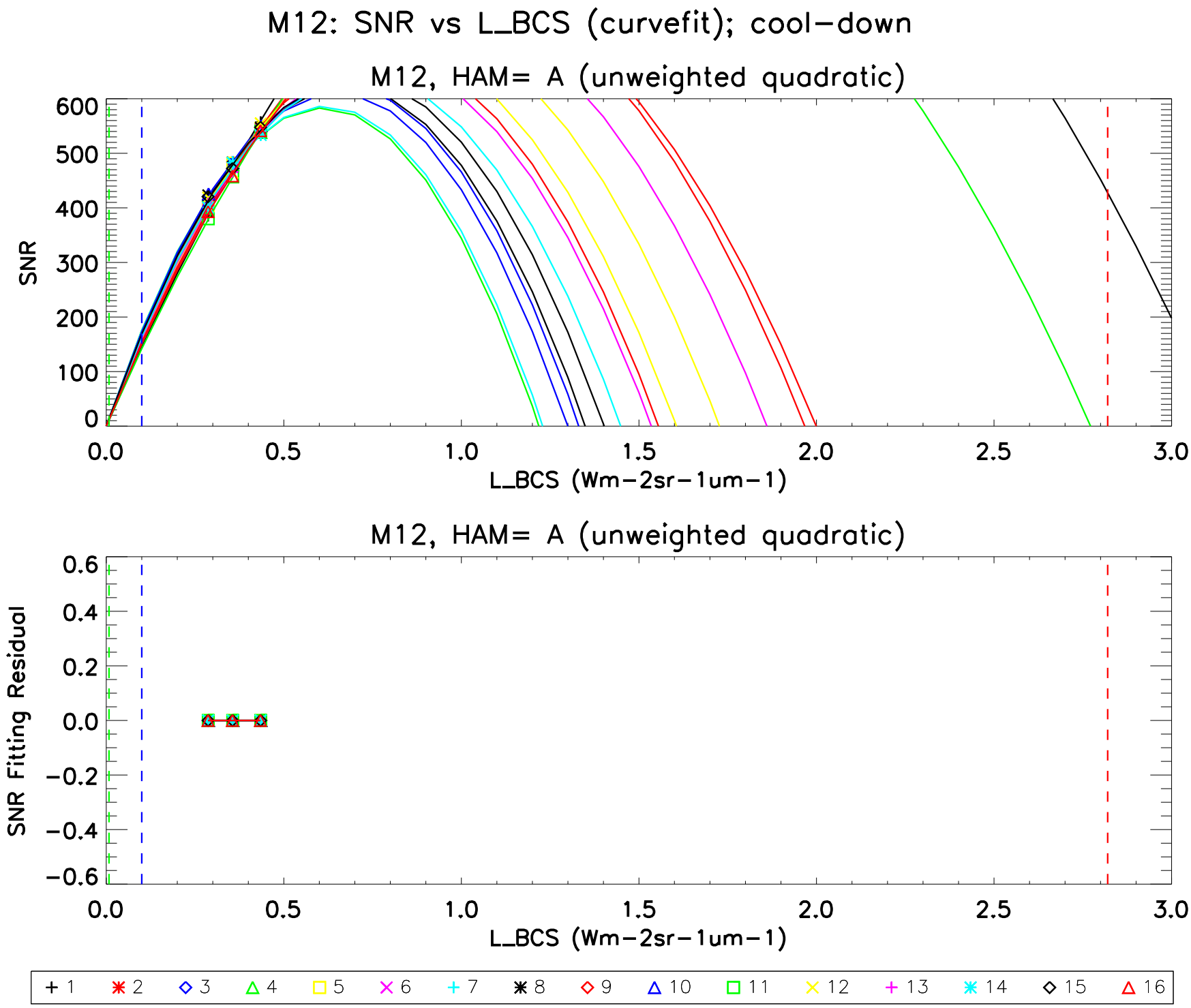


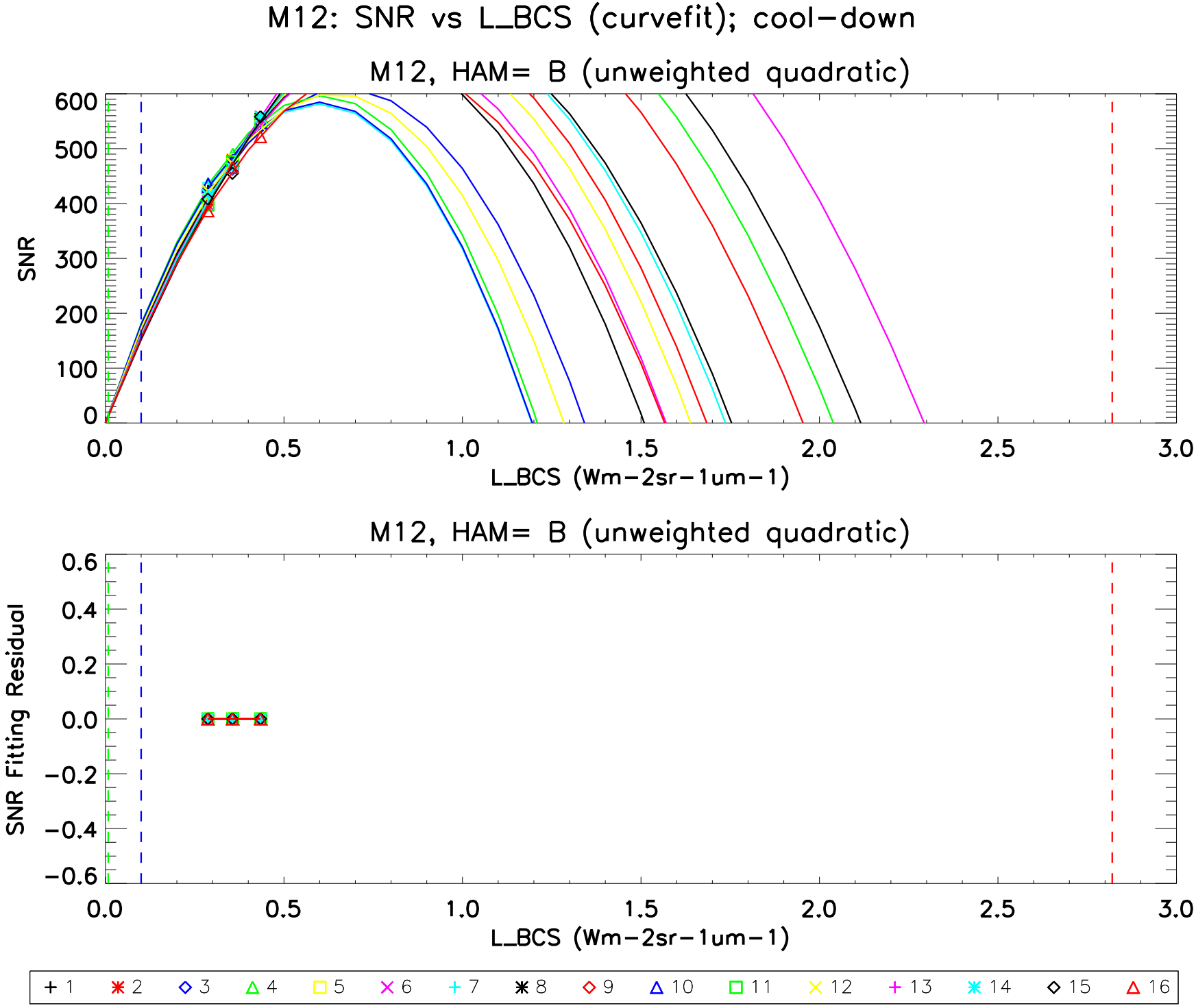

I5 SS1: SNR vs L_BCS (curvefit); cool-down
I5 SS1, HAM= A (unweighted quadratic)
SNR
800
600
400
200
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
I5 SS1, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

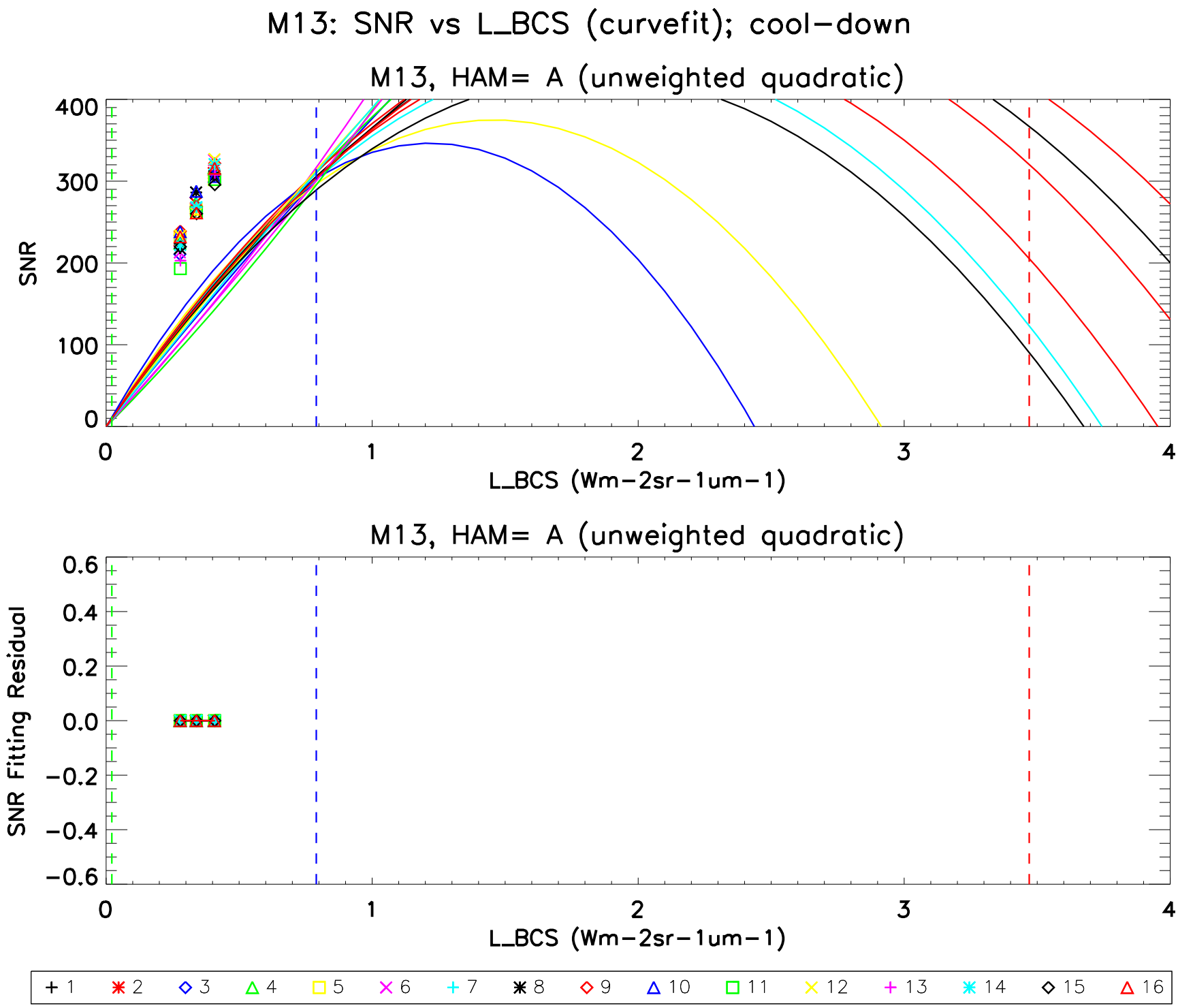

I5 SS1: SNR vs L_BCS (curvefit); cool-down
I5 SS1, HAM= B (unweighted quadratic)
SNR
800
600
400
200
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
I5 SS1, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

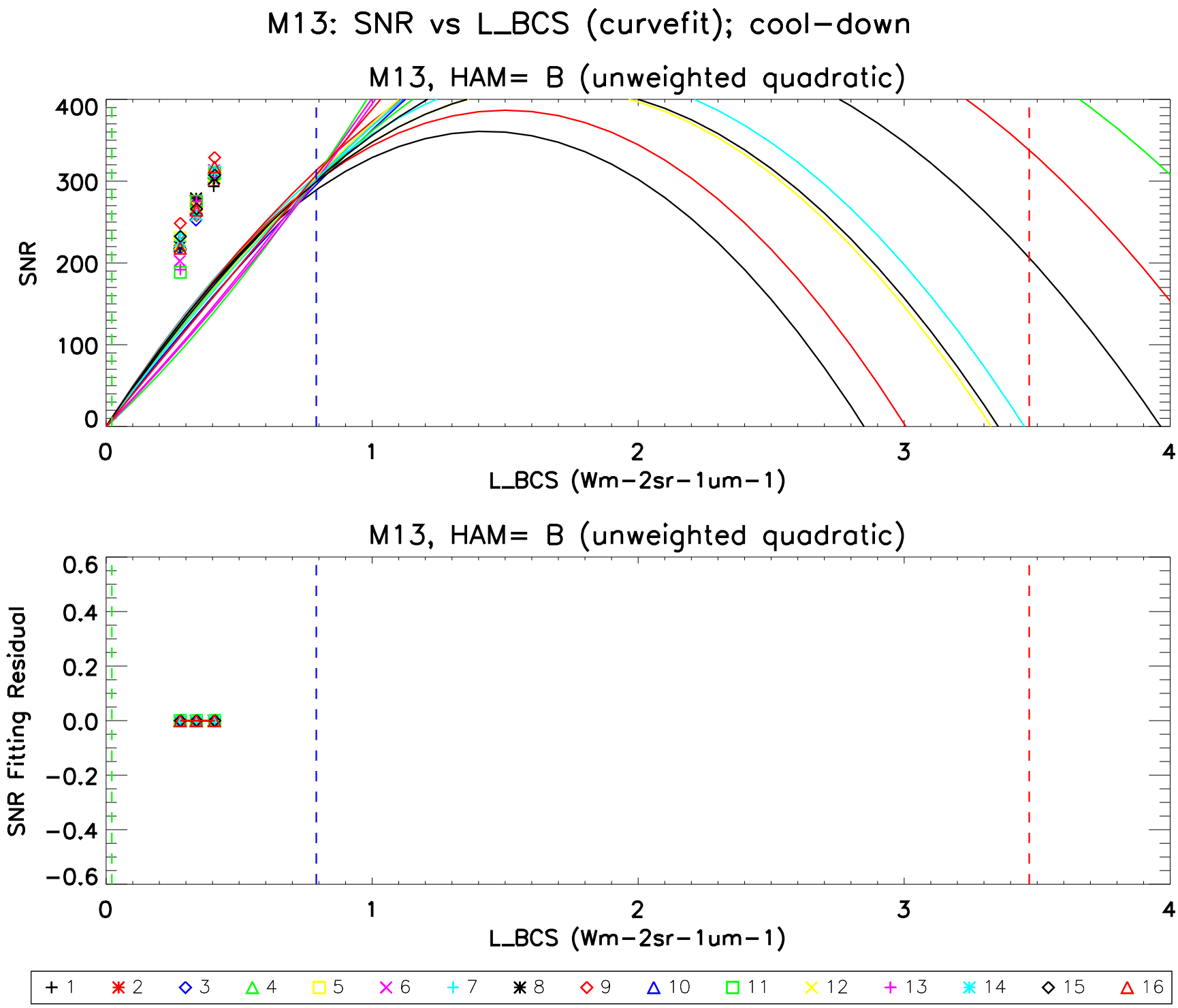

I5 SS2: SNR vs L_BCS (curvefit); cool-down
I5 SS2, HAM= A (unweighted quadratic)
SNR
800
600
400
200
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
I5 SS2, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

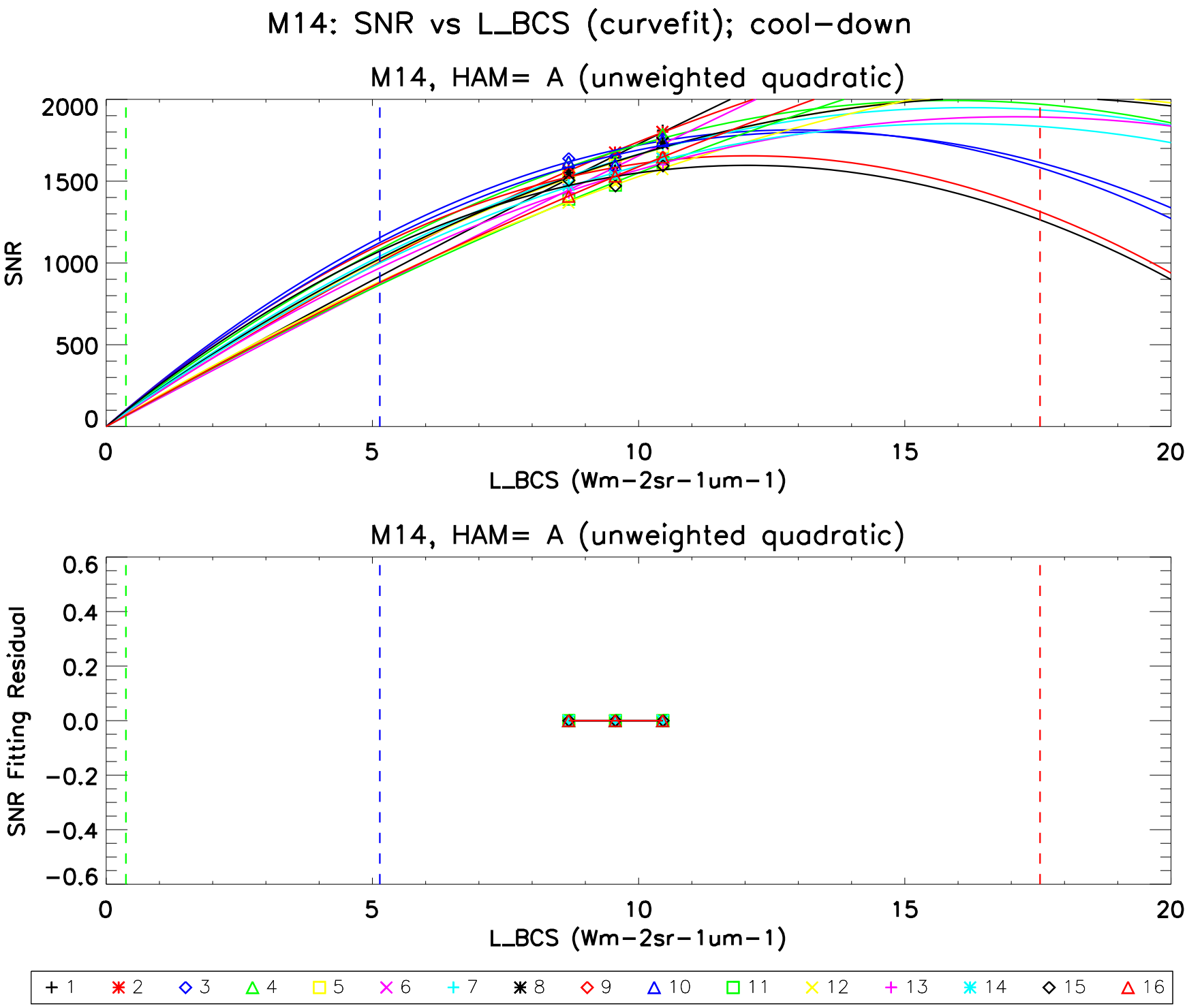

I5 SS2: SNR vs L_BCS (curvefit); cool-down
I5 SS2, HAM= B (unweighted quadratic)
SNR
800
600
400
200
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
I5 SS2, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

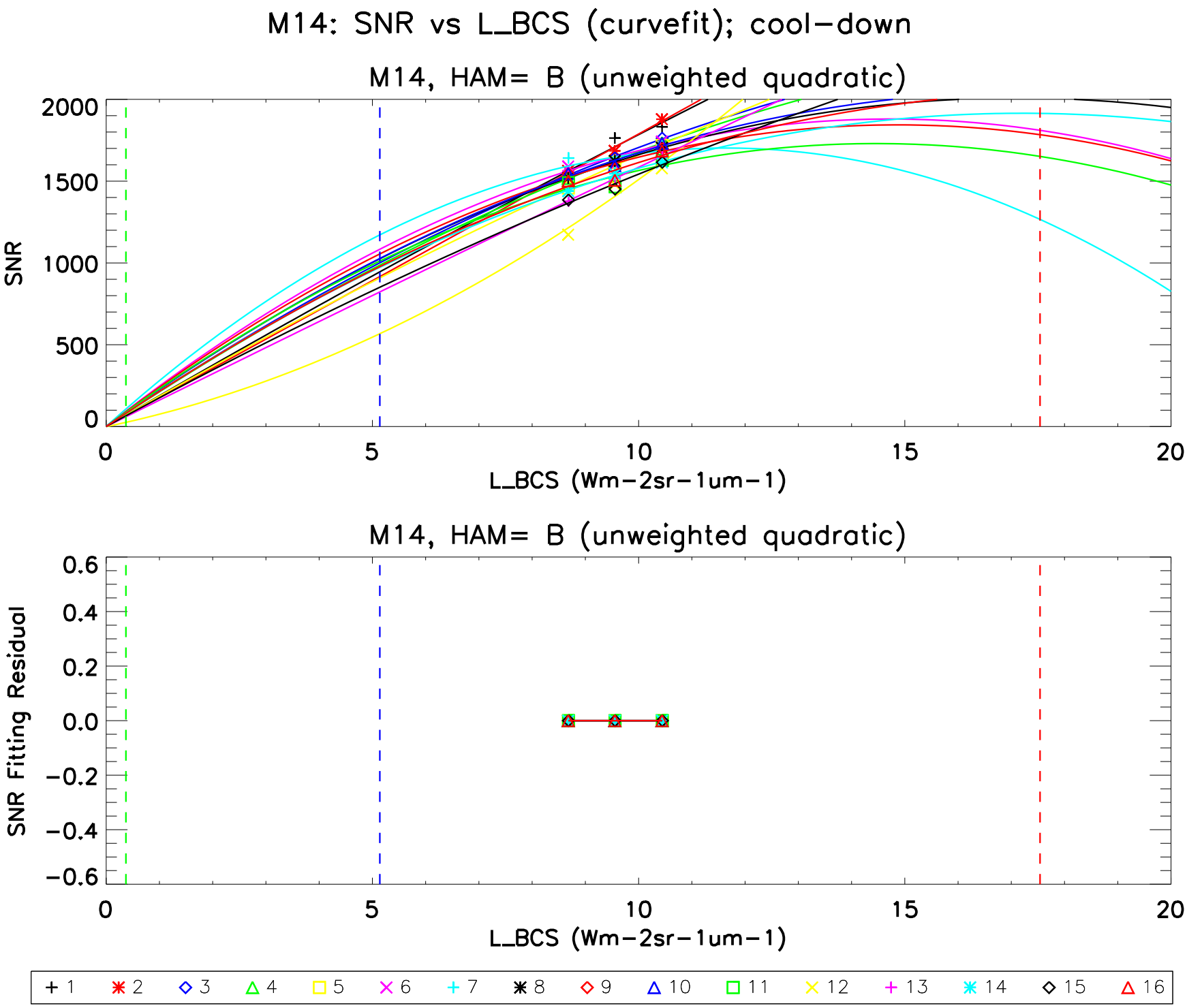

M12: SNR vs L_BCS (curvefit); cool-down
M12, HAM= A (unweighted quadratic)
SNR
600
500
400
300
200
100
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
M12, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

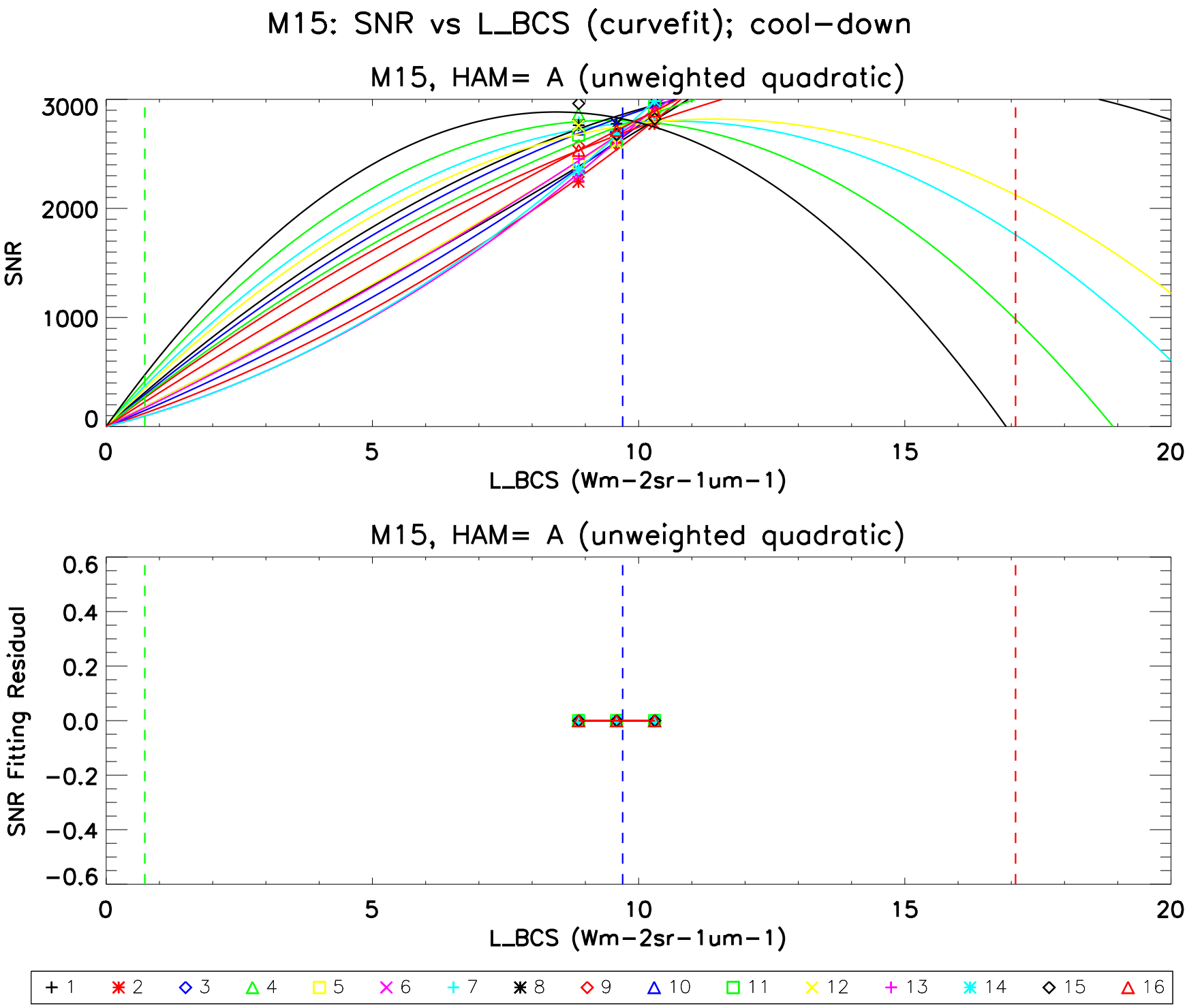

M12: SNR vs L_BCS (curvefit); cool-down
M12, HAM= B (unweighted quadratic)
SNR
600
500
400
300
200
100
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
M12, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0.0
0.5
1.0
1.5
2.0
2.5
3.0
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

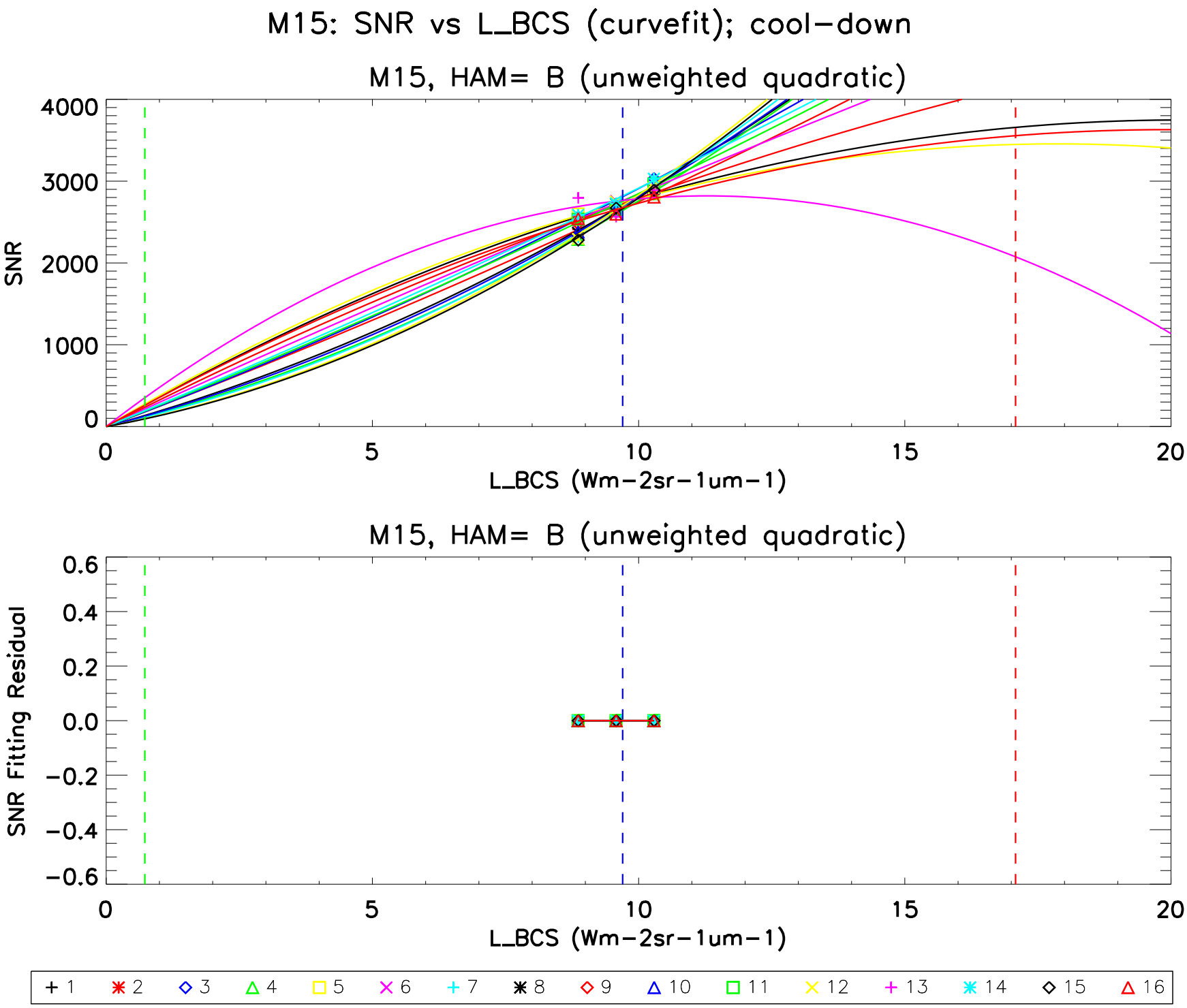

M13: SNR vs L_BCS (curvefit); cool-down
M13, HAM= A (unweighted quadratic)
SNR
400
300
200
100
0
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
M13, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
1
2
3
4
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

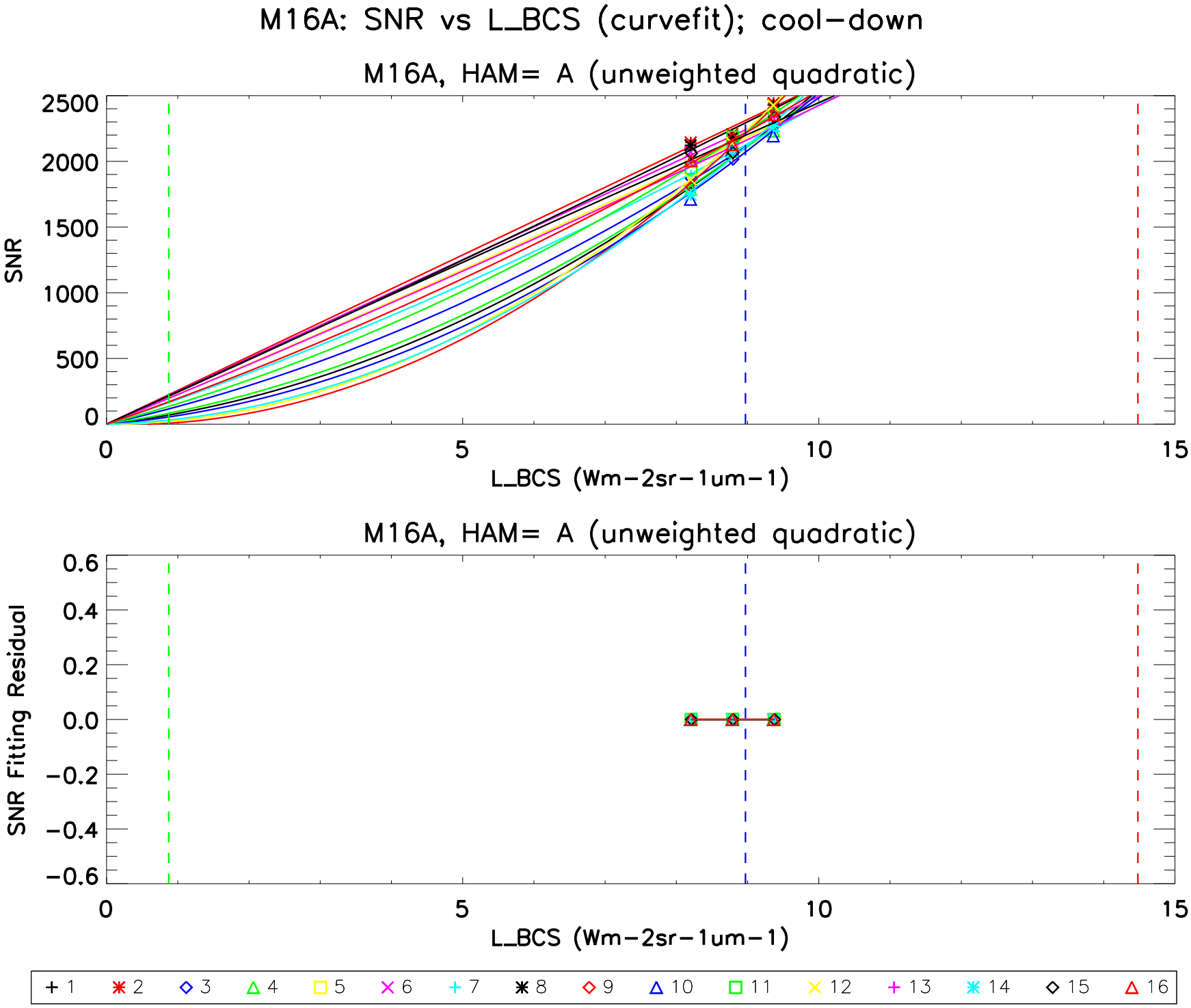

M13: SNR vs L_BCS (curvefit); cool-down
M13, HAM= B (unweighted quadratic)
SNR
L_BCS (Wm-2sr-1um-1)
M13, HAM= B (unweighted quadratic)
SNR Fitting Residual
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

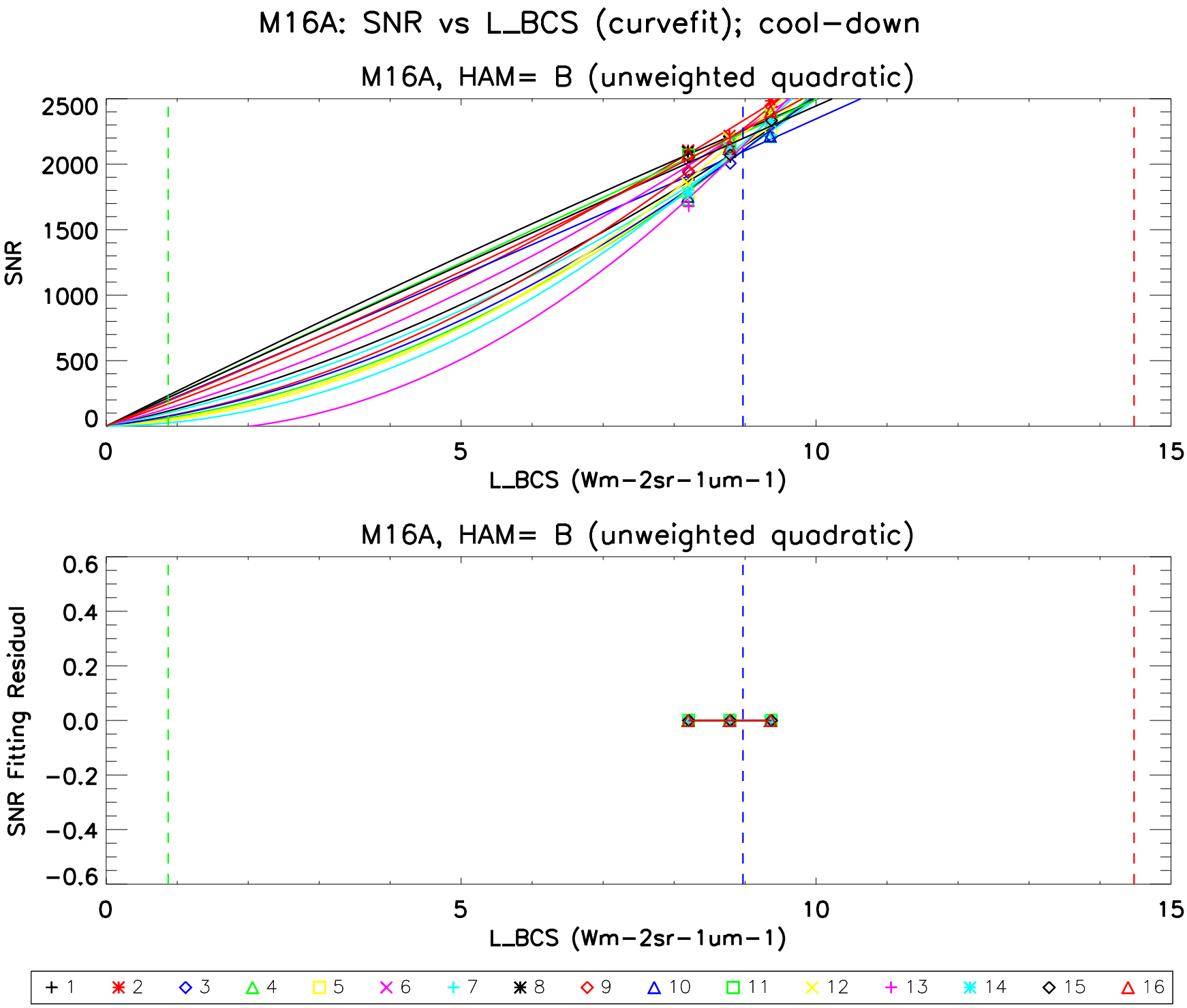

M14: SNR vs L_BCS (curvefit); cool-down
M14, HAM= A (unweighted quadratic)
SNR
2000
1500
1000
500
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
M14, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

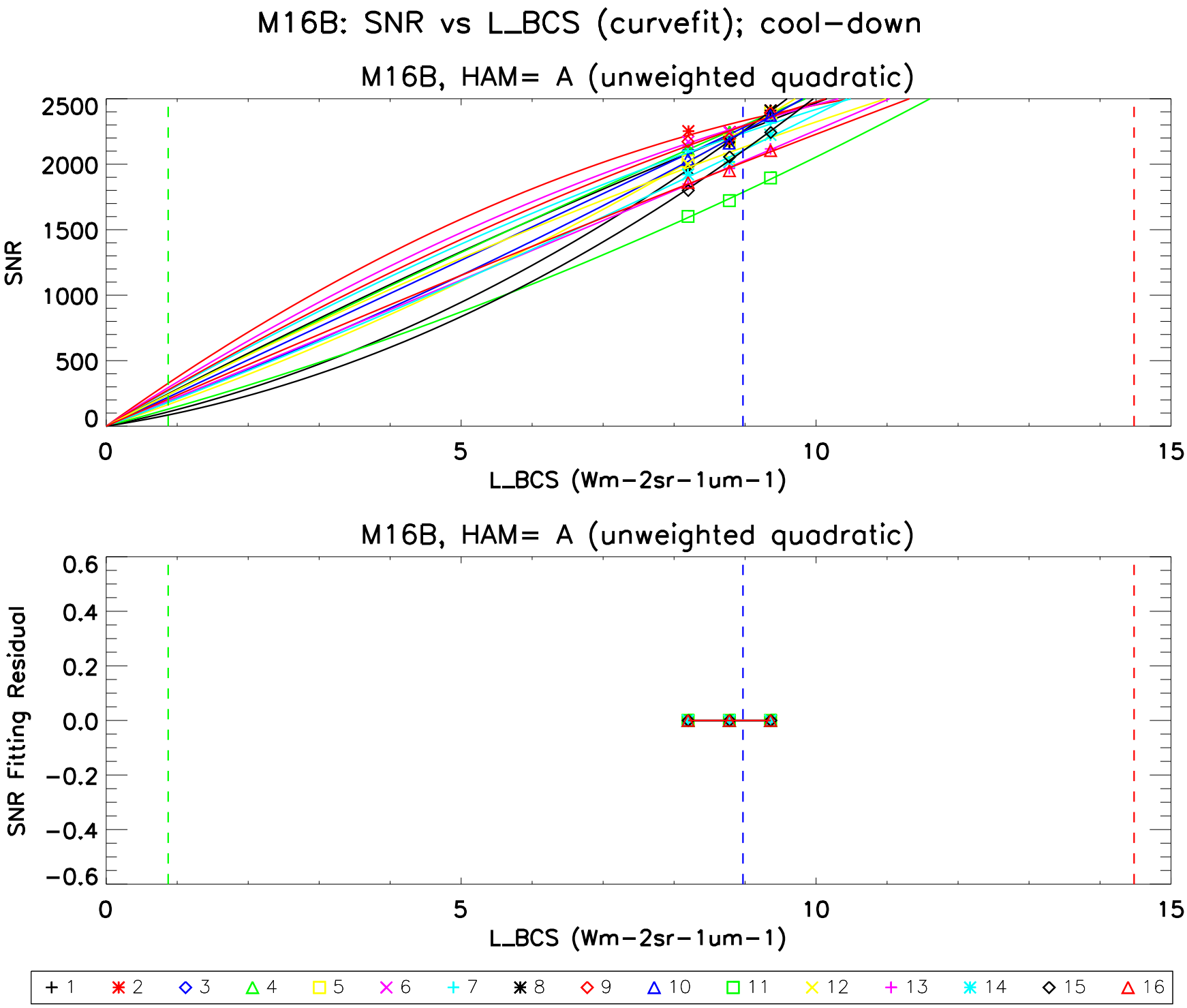

M14: SNR vs L_BCS (curvefit); cool-down
M14, HAM= B (unweighted quadratic)
SNR
2000
1500
1000
500
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
M14, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

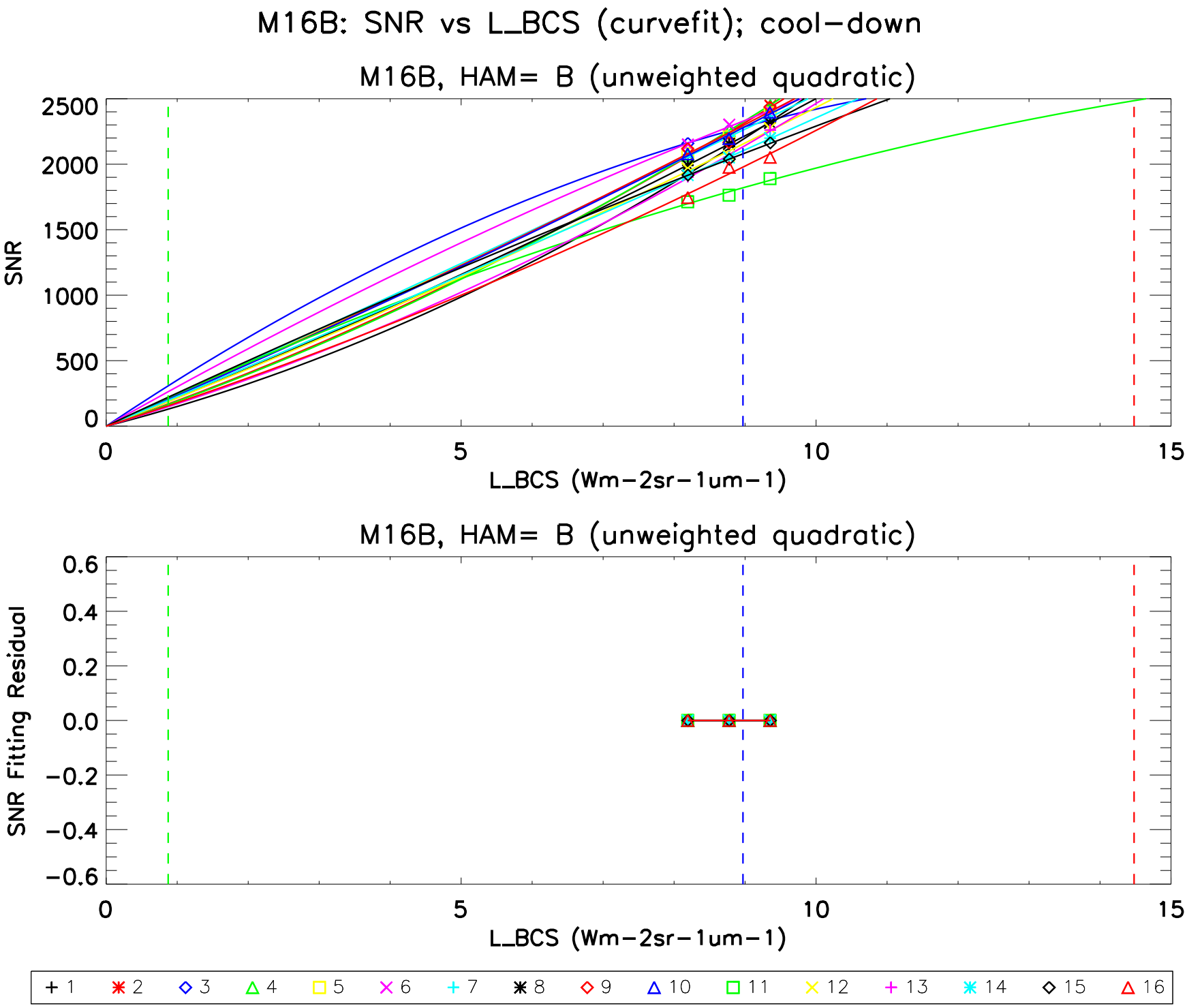

M15: SNR vs L_BCS (curvefit); cool-down
M15, HAM= A (unweighted quadratic)
SNR
3000
2000
1000
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
M15, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

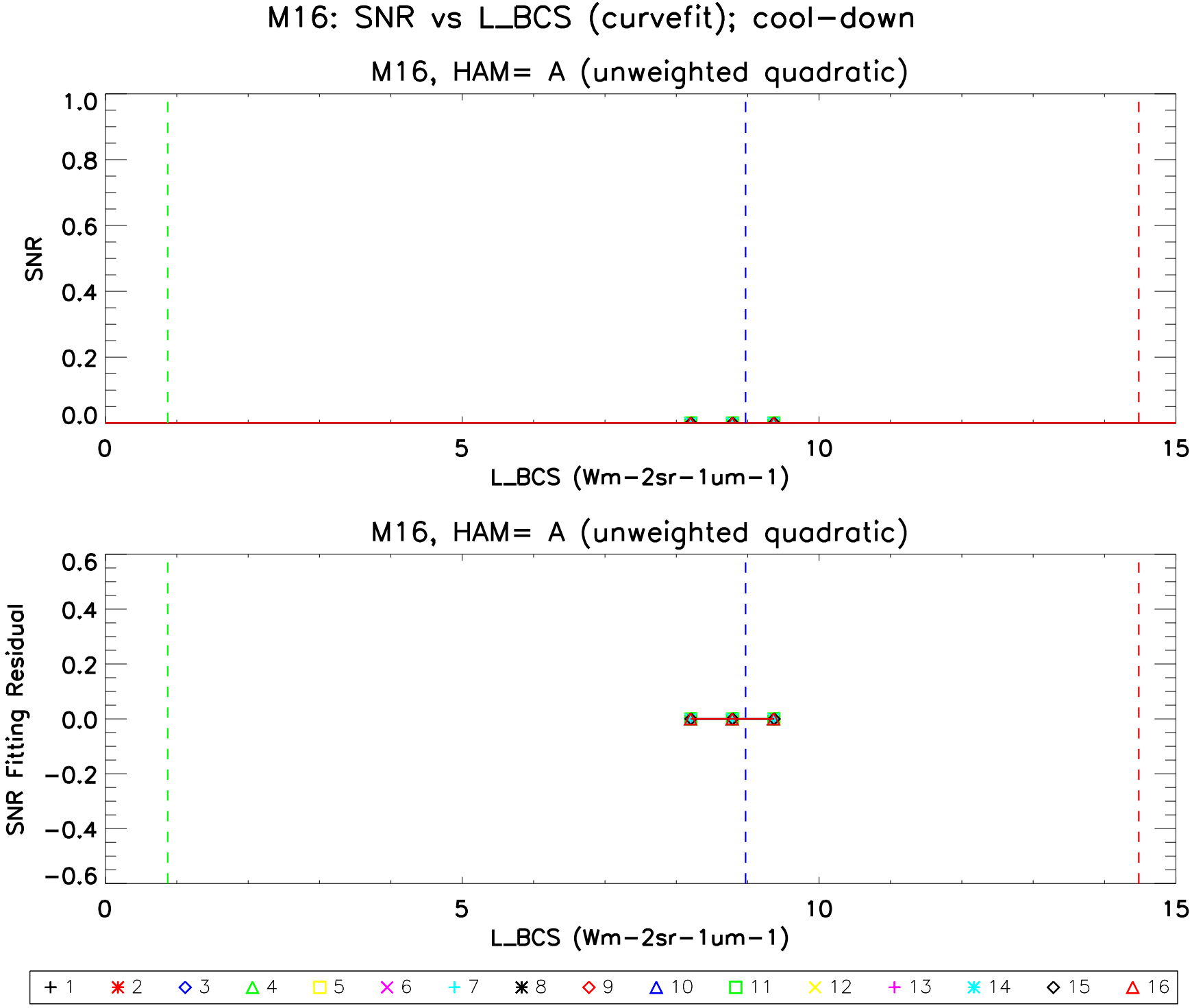

M15: SNR vs L_BCS (curvefit); cool-down
M15, HAM= B (unweighted quadratic)
SNR
4000
3000
2000
1000
0
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
M15, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
20
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

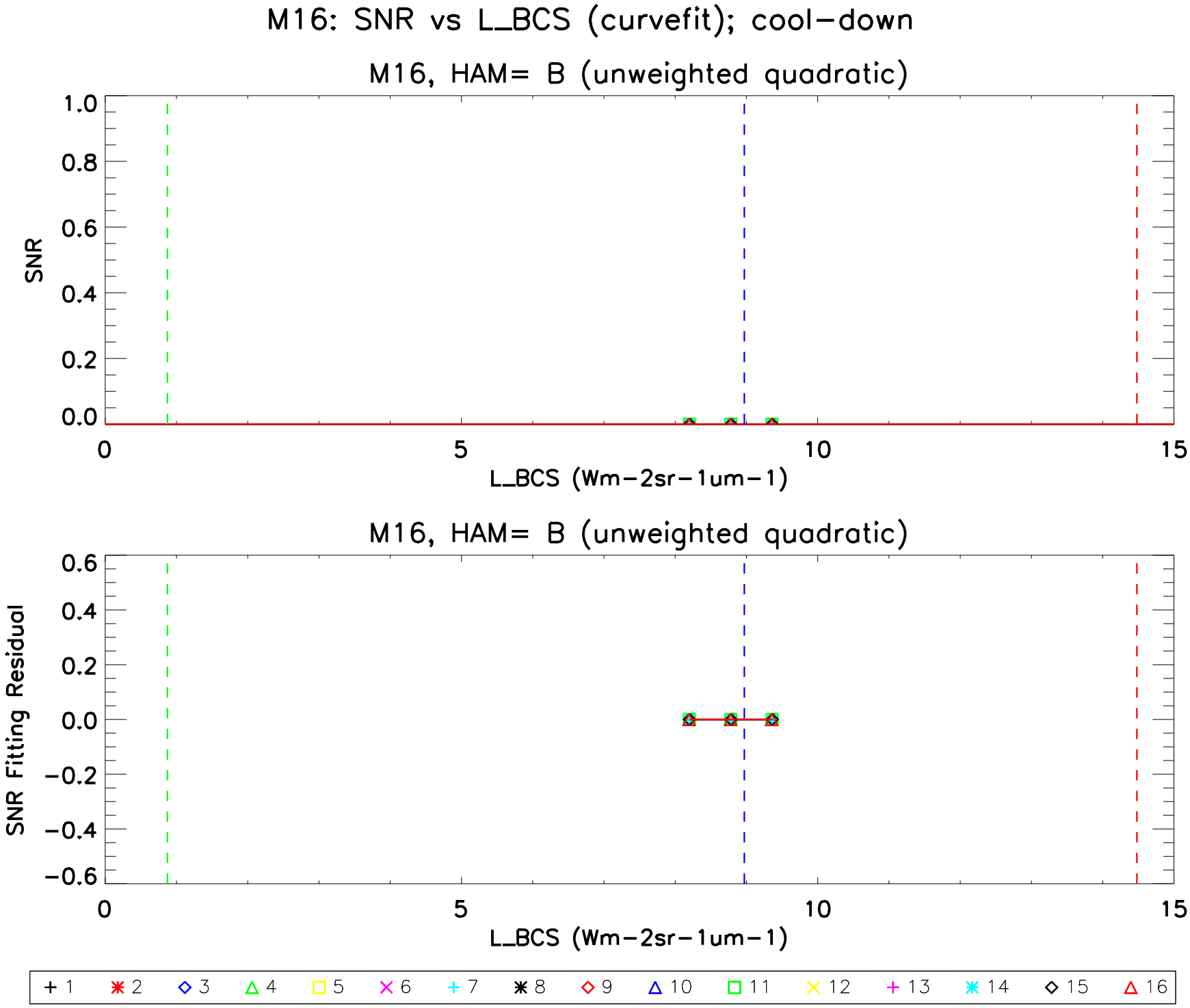

M16A: SNR vs L_BCS (curvefit); cool-down
M16A, HAM= A (unweighted quadratic)
SNR
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16A, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16


M16A: SNR vs L_BCS (curvefit); cool-down
M16A, HAM= B (unweighted quadratic)
SNR
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16A, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16


M16B: SNR vs L_BCS (curvefit); cool-down
M16B, HAM= A (unweighted quadratic)
SNR
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16B, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16


M16B: SNR vs L_BCS (curvefit); cool-down
M16B, HAM= B (unweighted quadratic)
SNR
2500
2000
1500
1000
500
0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16B, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16


M16: SNR vs L_BCS (curvefit); cool-down
M16, HAM= A (unweighted quadratic)
SNR
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16, HAM= A (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16


M16: SNR vs L_BCS (curvefit); cool-down
M16, HAM= B (unweighted quadratic)
SNR
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
L_BCS (Wm-2sr-1um-1)
M16, HAM= B (unweighted quadratic)
SNR Fitting Residual
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
0
5
10
15
L_BCS (Wm-2sr-1um-1)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16