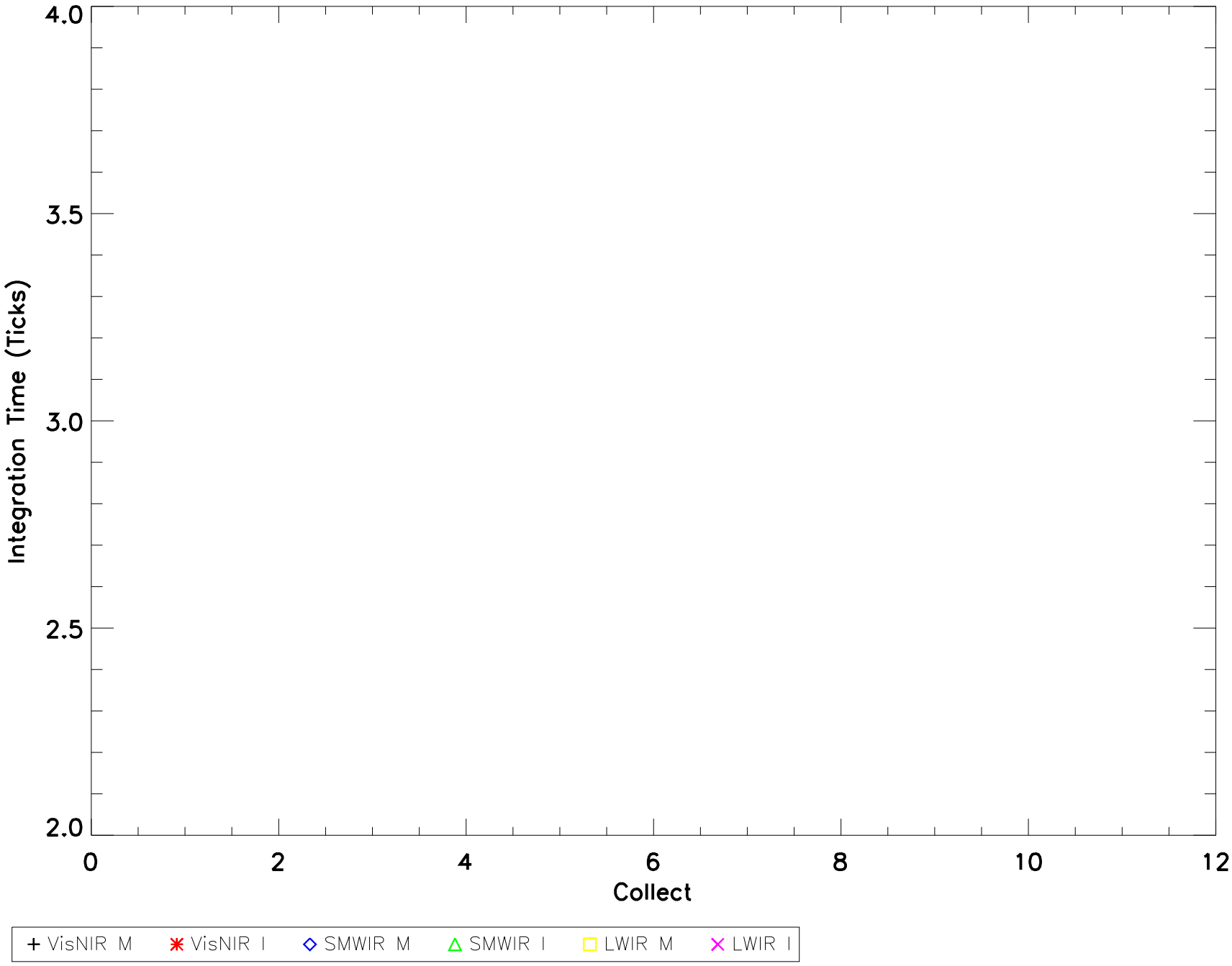
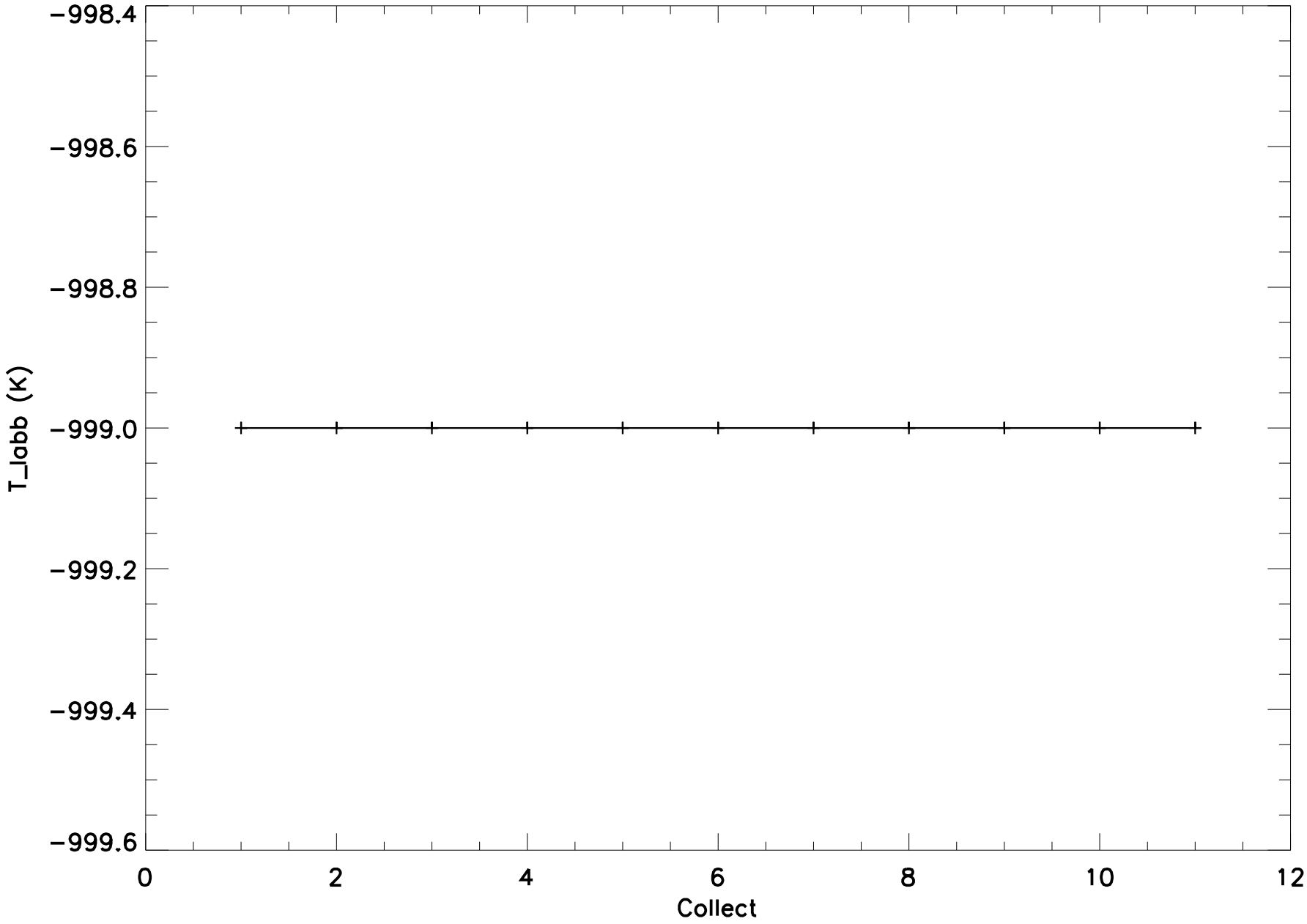
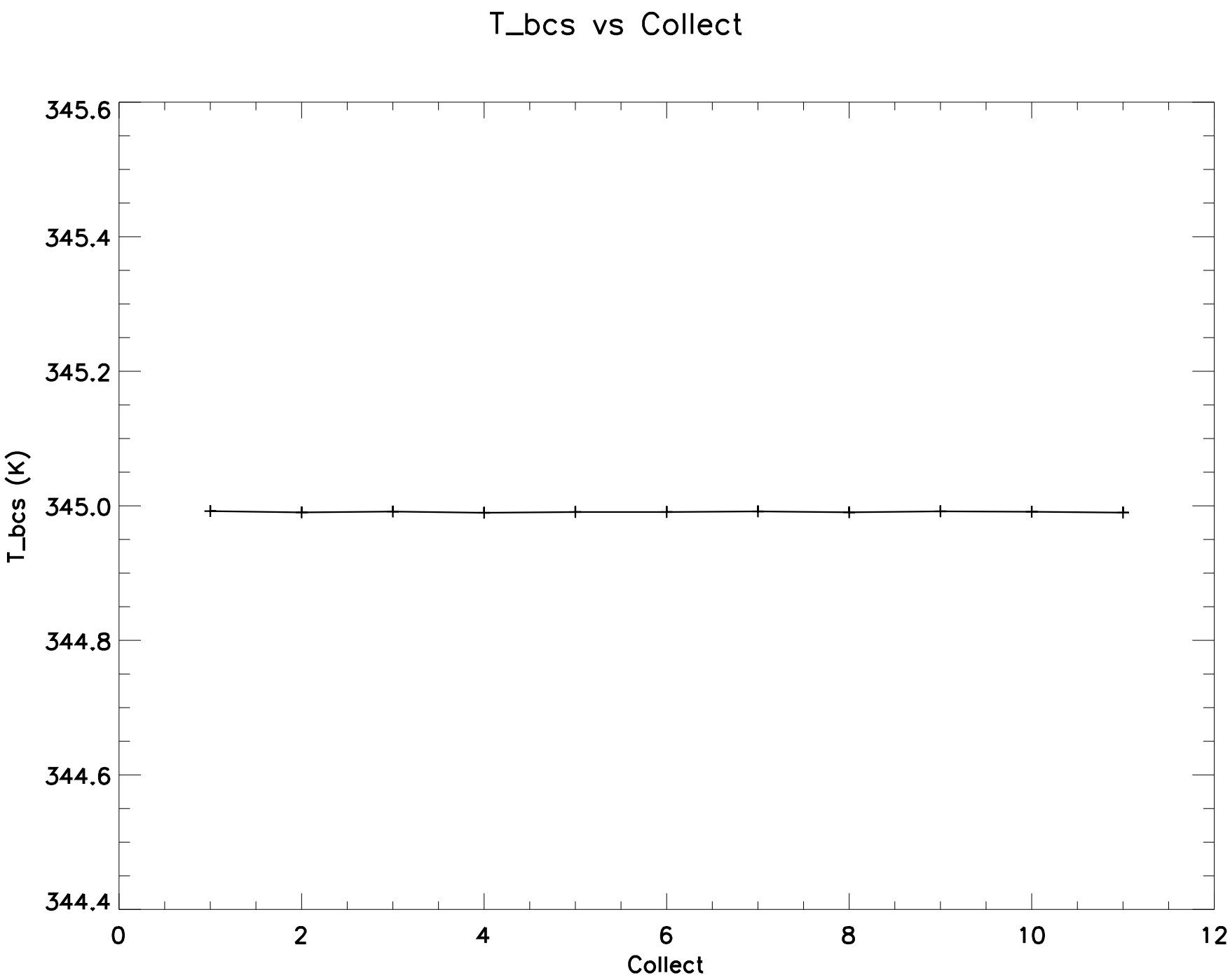
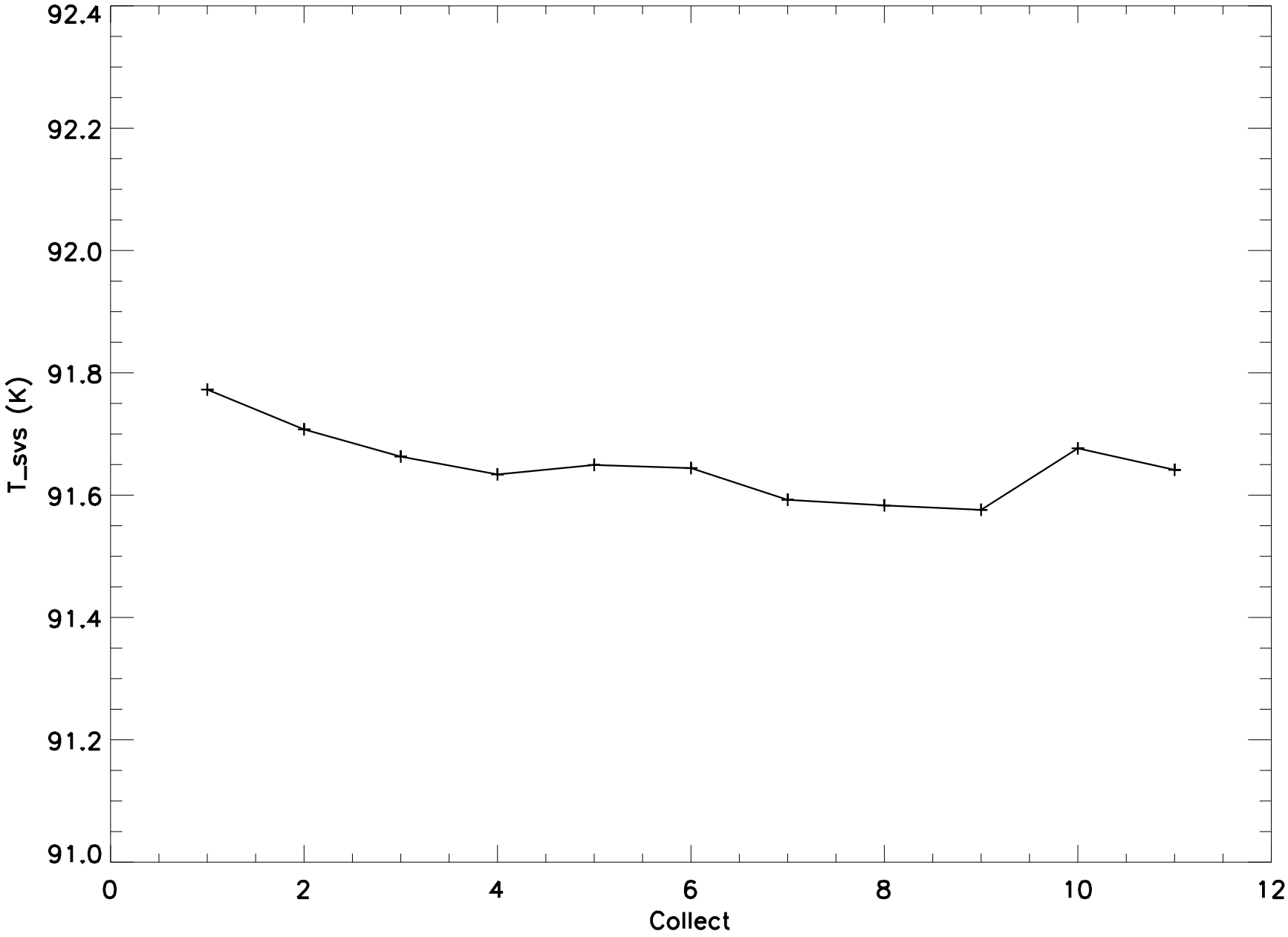
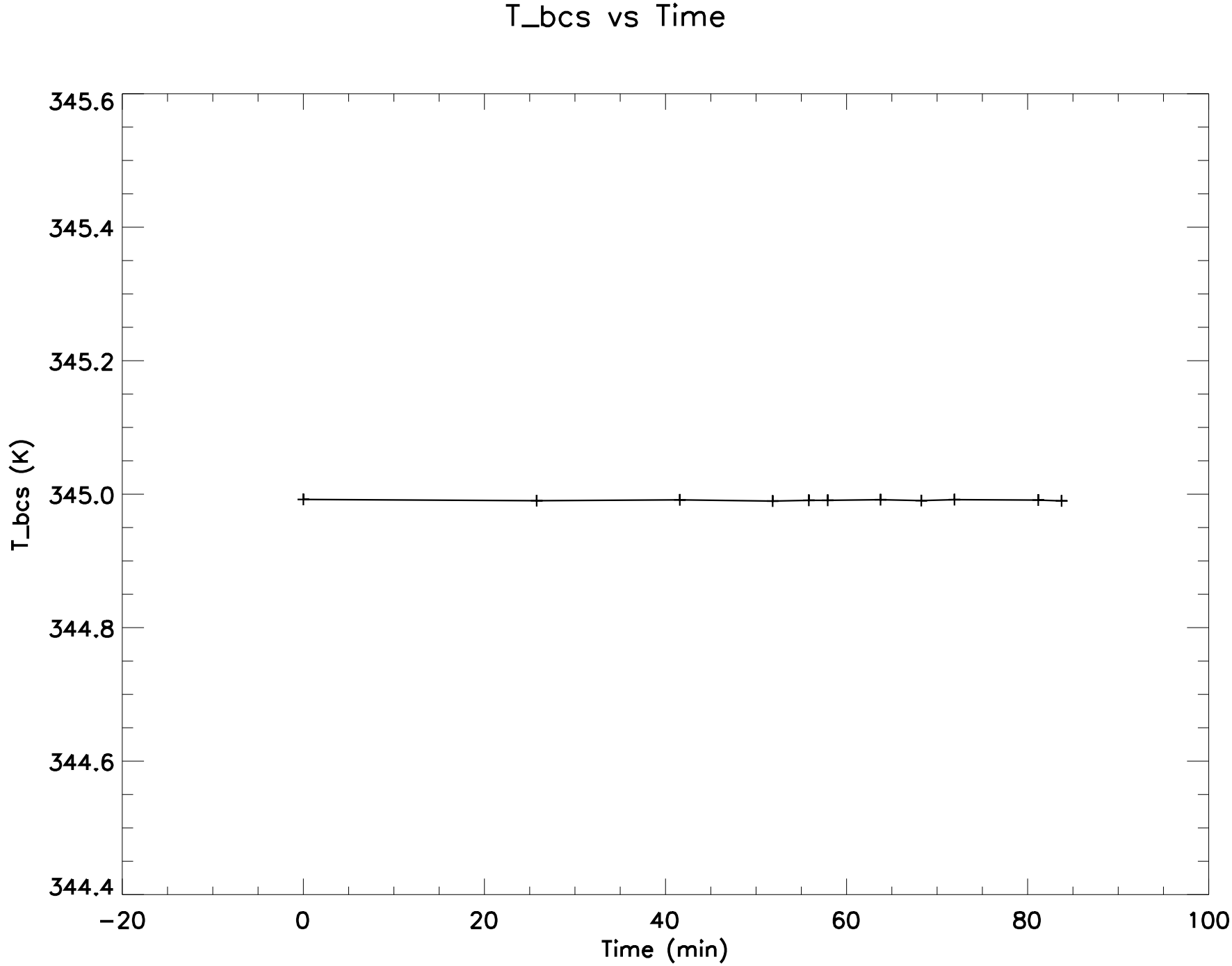
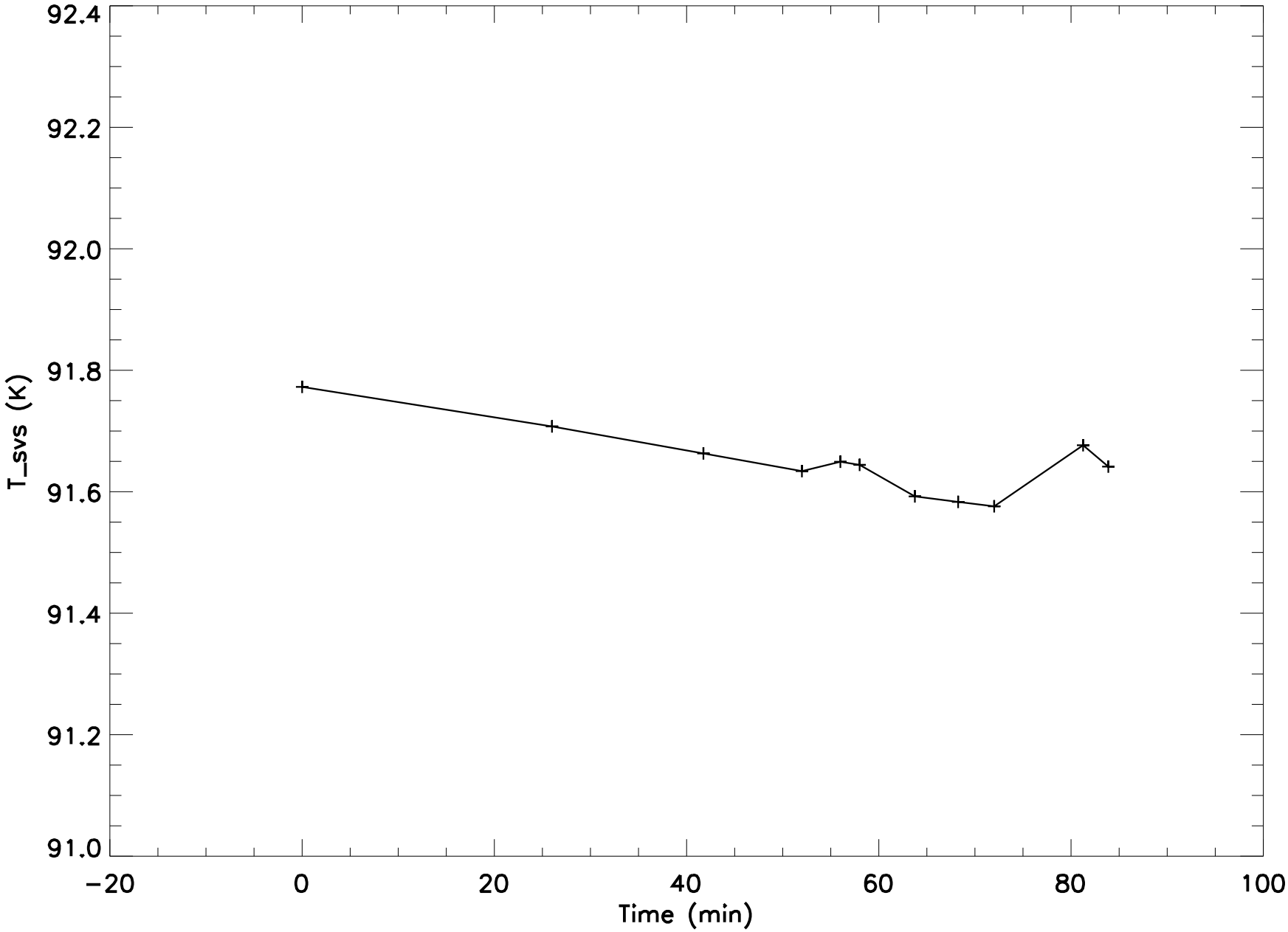

Integration Time vs Collect
Integration Time (Ticks)
4.0
3.5
3.0
2.5
2.0
0
2
4
6
8
10
12
Collect
+ VisNIR M
✳ VisNIR I
◇ SMWIR M
△ SMWIR I
□ LWIR M
× LWIR I

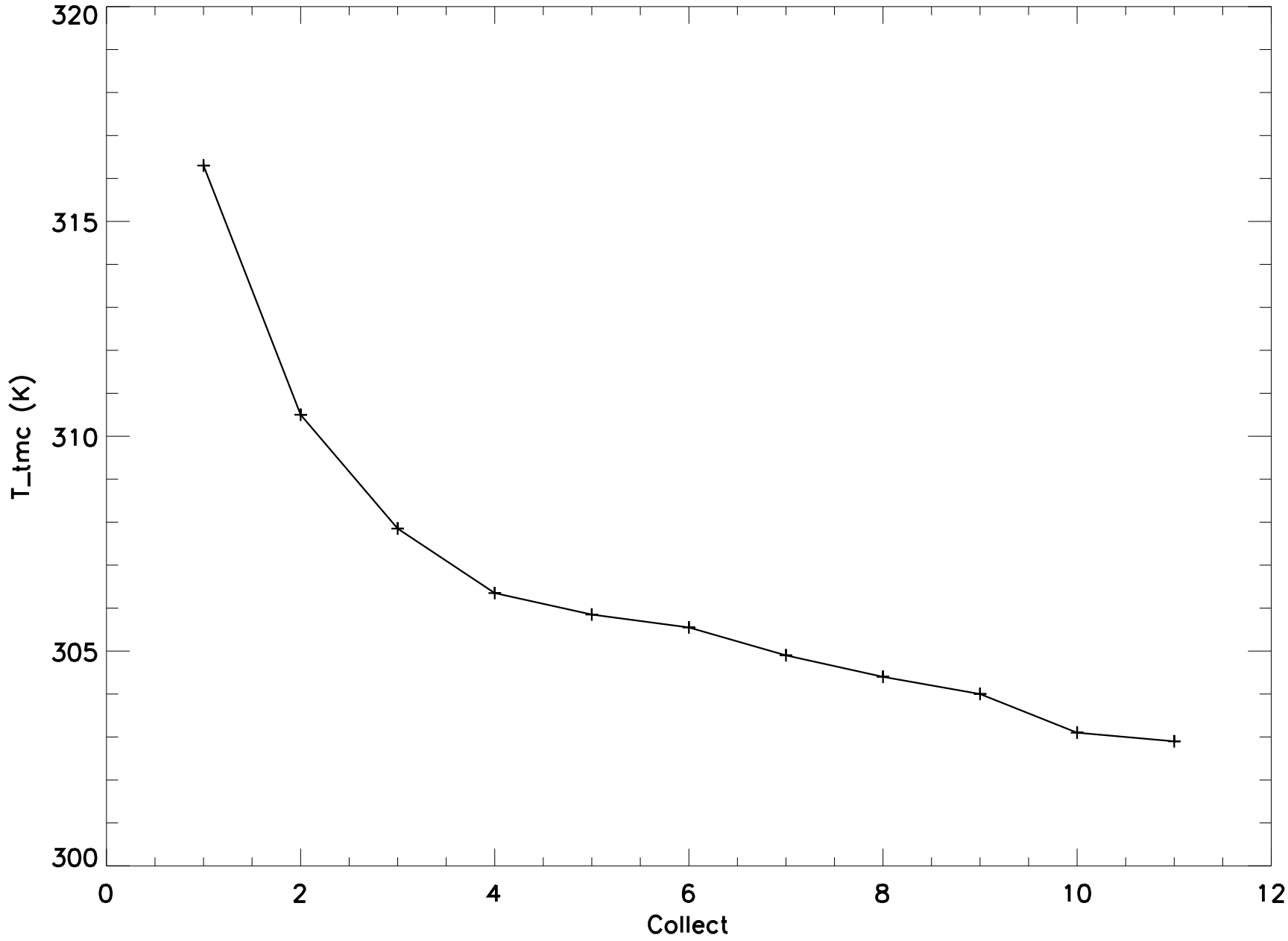

T_labb vs Collect
−998.4
−998.6
−998.8
−999.0
−999.2
−999.4
−999.6
T_labb (K)
0
2
4
6
8
10
12
Collect

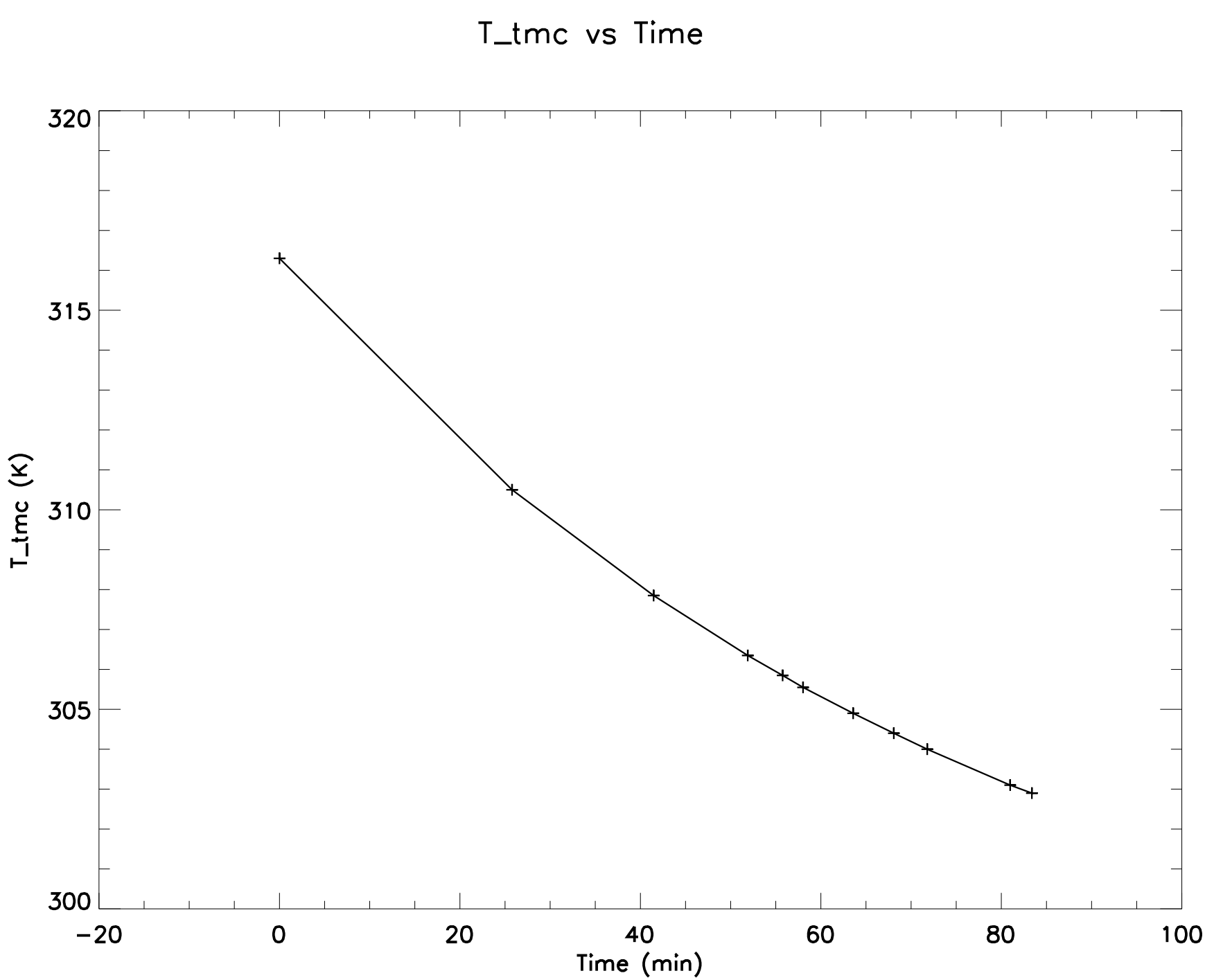

T_bcs vs Collect
345.6
345.4
345.2
345.0
344.8
344.6
344.4
T_bcs (K)
0
2
4
6
8
10
12
Collect

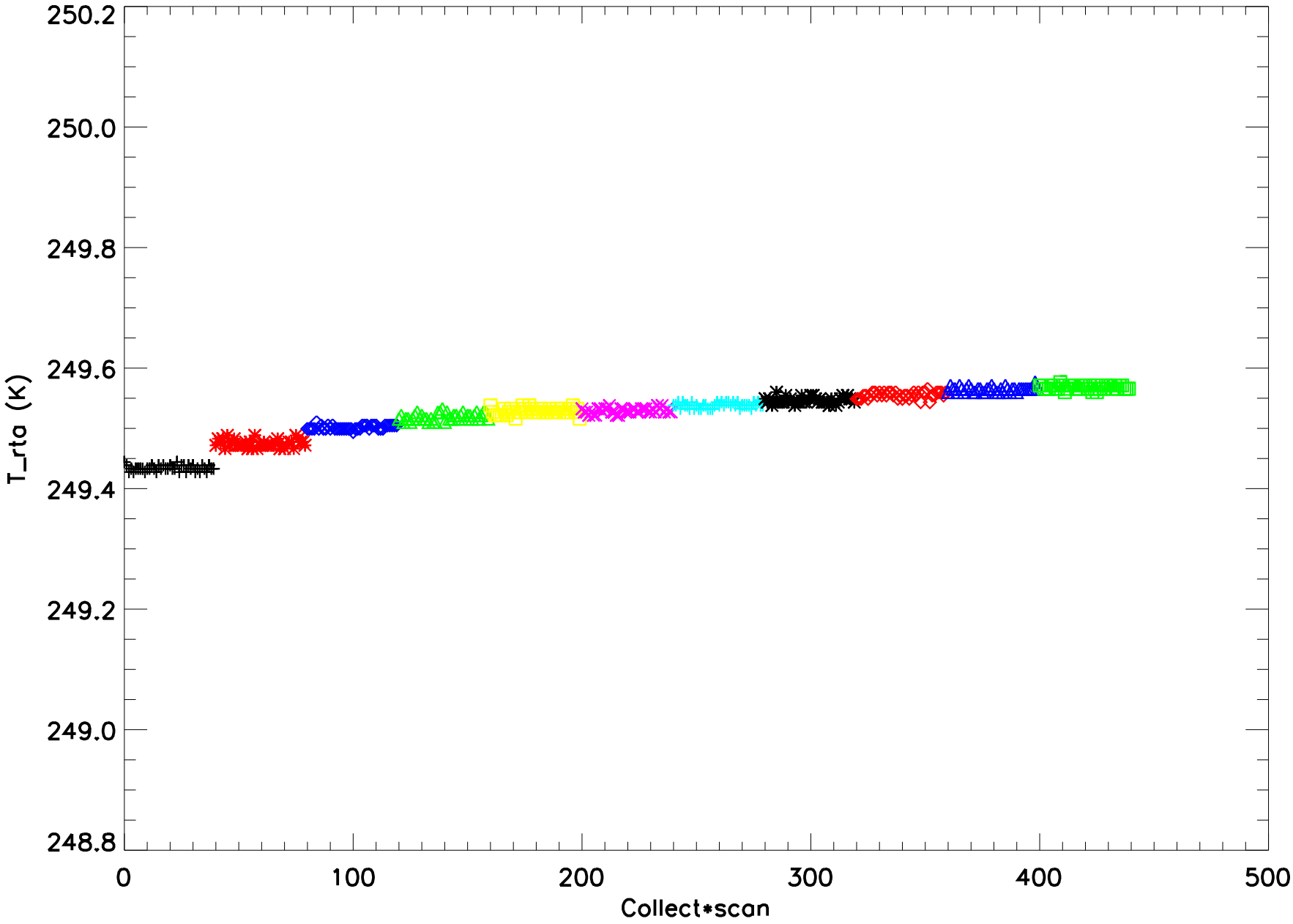

T_svs vs Collect
92.4
92.2
92.0
91.8
91.6
91.4
91.2
91.0
T_svs (K)
0
2
4
6
8
10
12
Collect

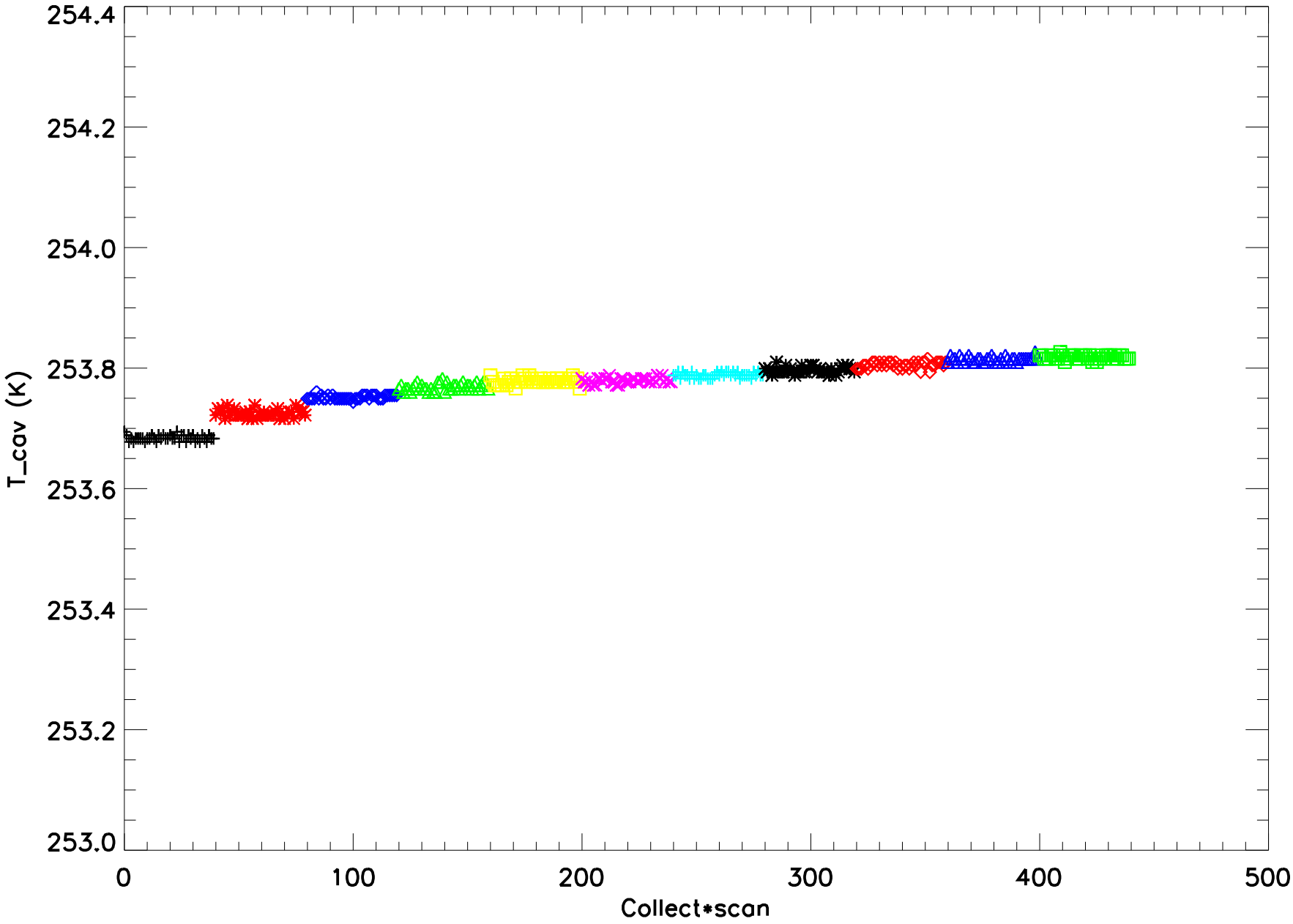

T_bcs vs Time
345.6
345.4
345.2
345.0
344.8
344.6
344.4
T_bcs (K)
−20
0
20
40
60
80
100
Time (min)

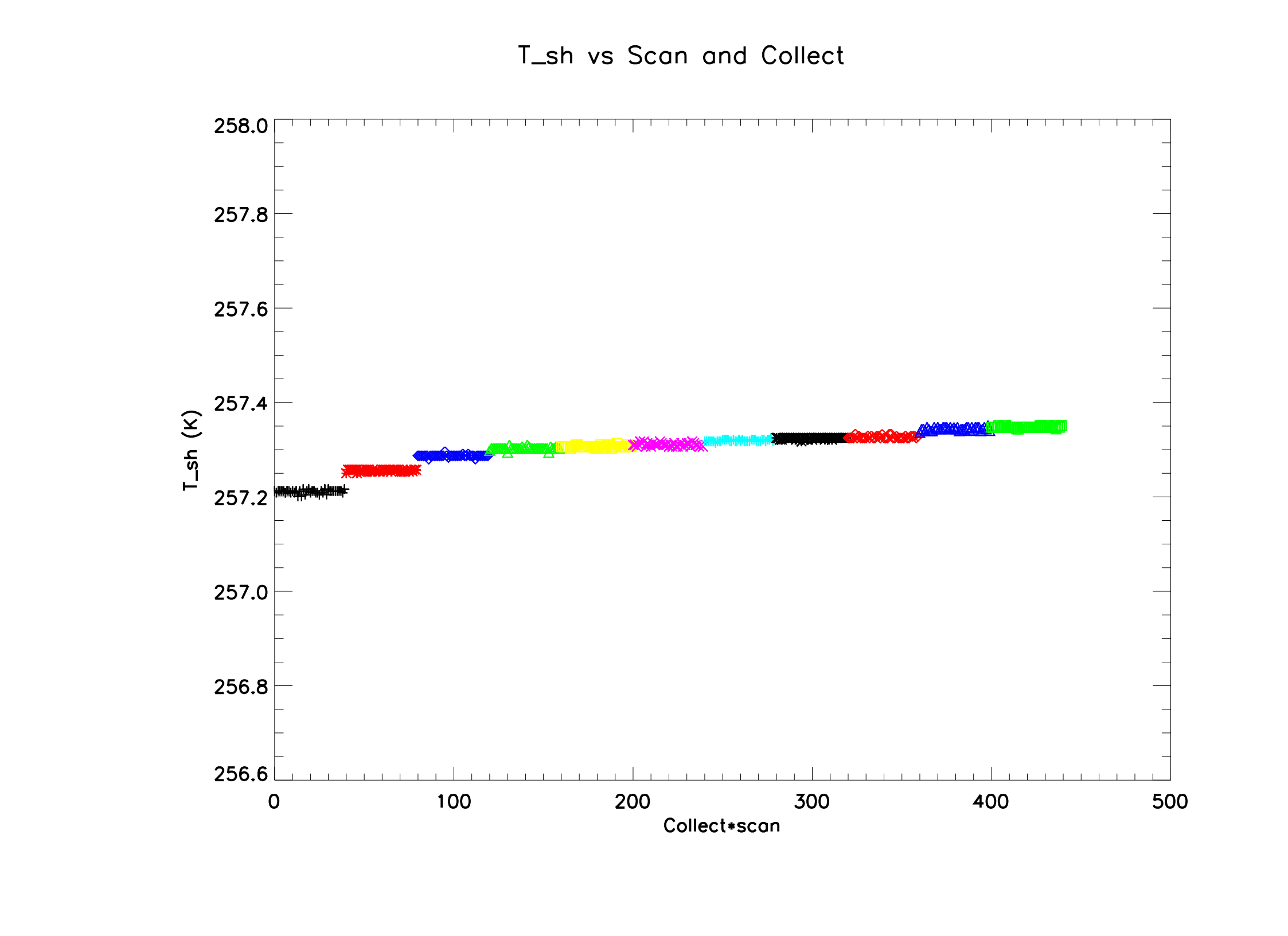

T_svs vs Time
92.4
92.2
92.0
91.8
91.6
91.4
91.2
91.0
T_svs (K)
−20
0
20
40
60
80
100
Time (min)

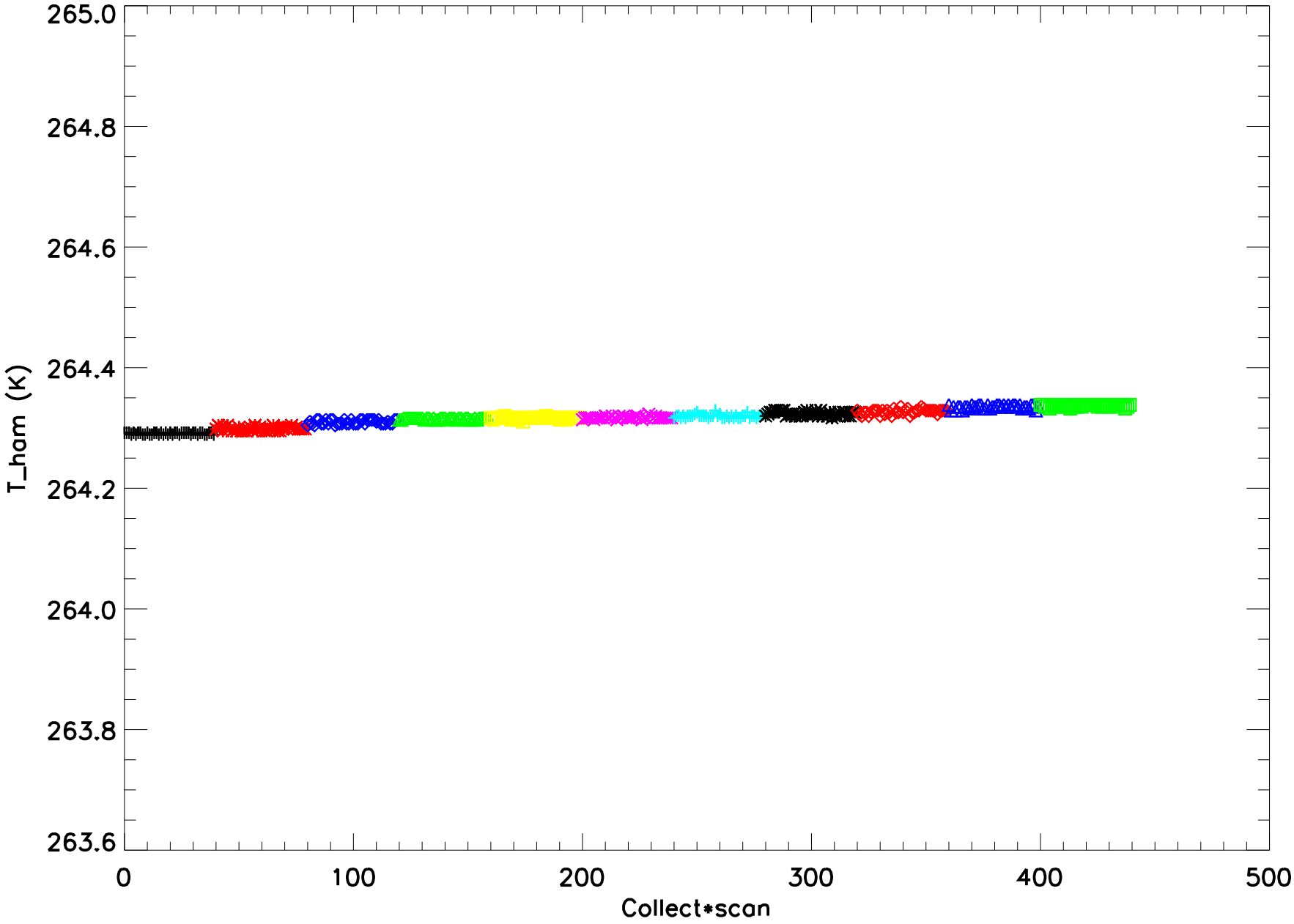

T_tmc vs Collect
320
315
310
305
300
T_tmc (K)
0
2
4
6
8
10
12
Collect

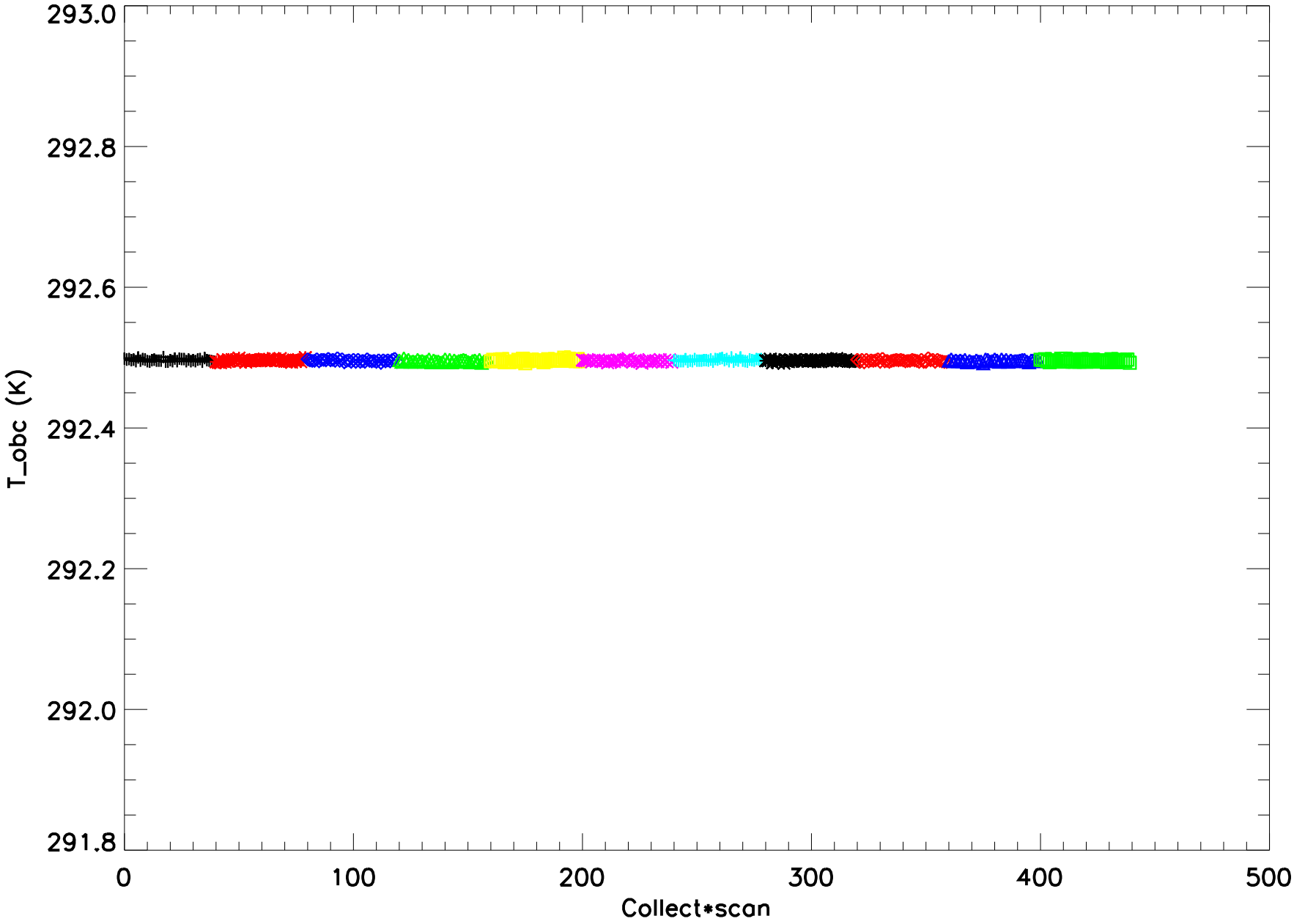

T_tmc vs Time
320
315
310
305
300
T_tmc (K)
−20
0
20
40
60
80
100
Time (min)

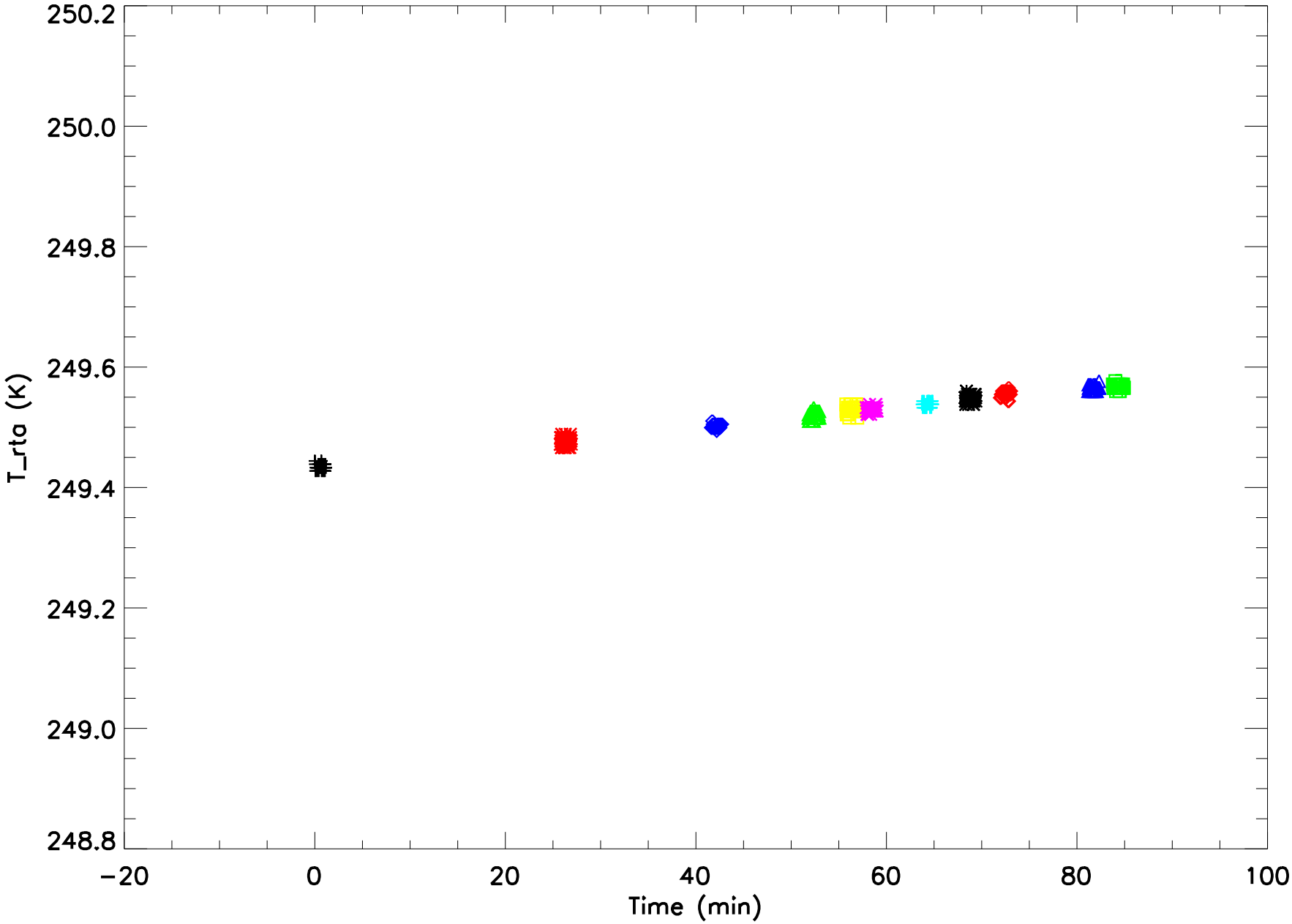

T_rta vs Scan and Collect
250.2
250.0
249.8
249.6
249.4
249.2
249.0
248.8
T_rta (K)
0
100
200
300
400
500
Collect*scan

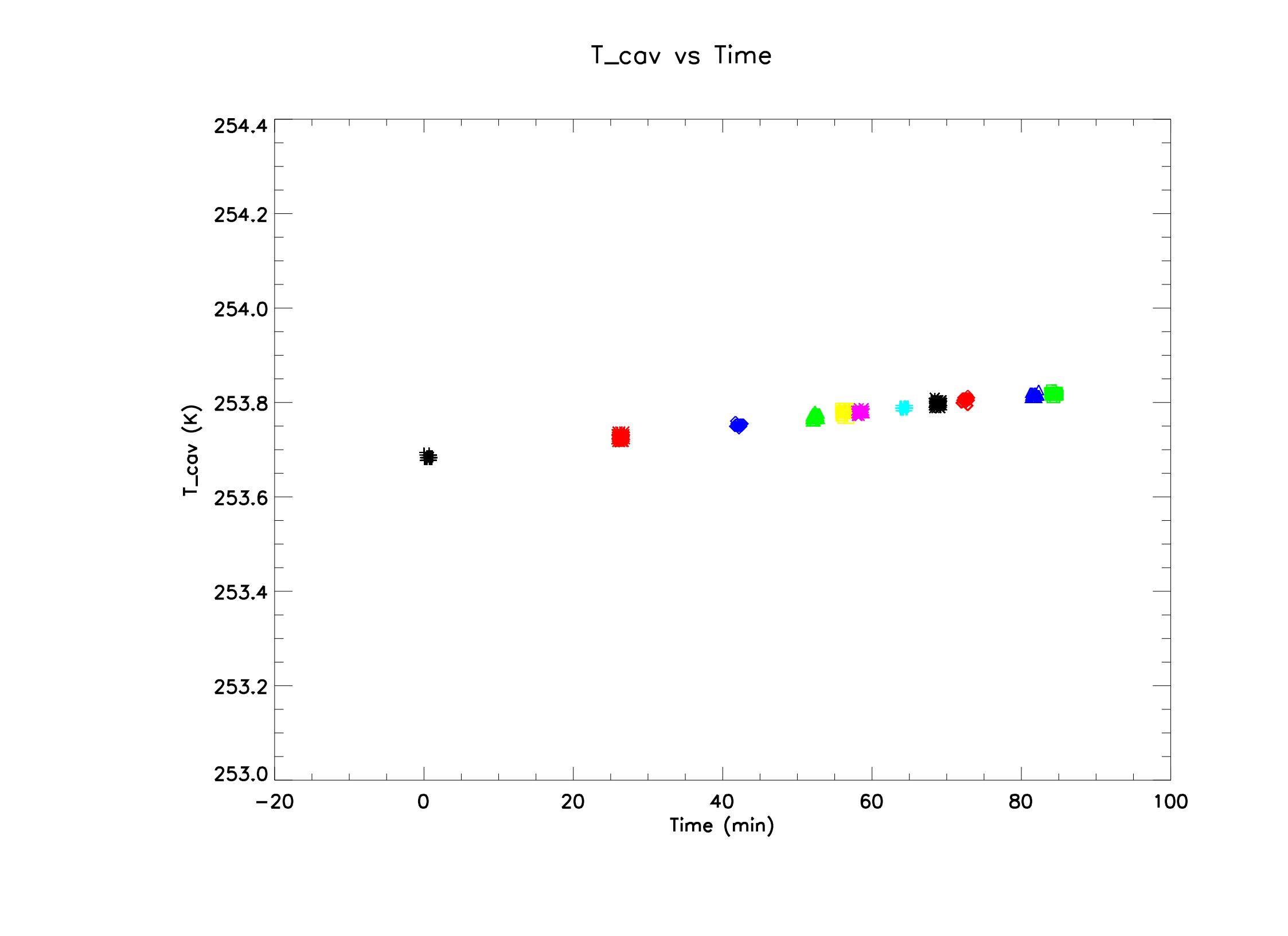

T_cav vs Scan and Collect
254.4
254.2
254.0
253.8
253.6
253.4
253.2
253.0
T_cav (K)
0
100
200
300
400
500
Collect*scan

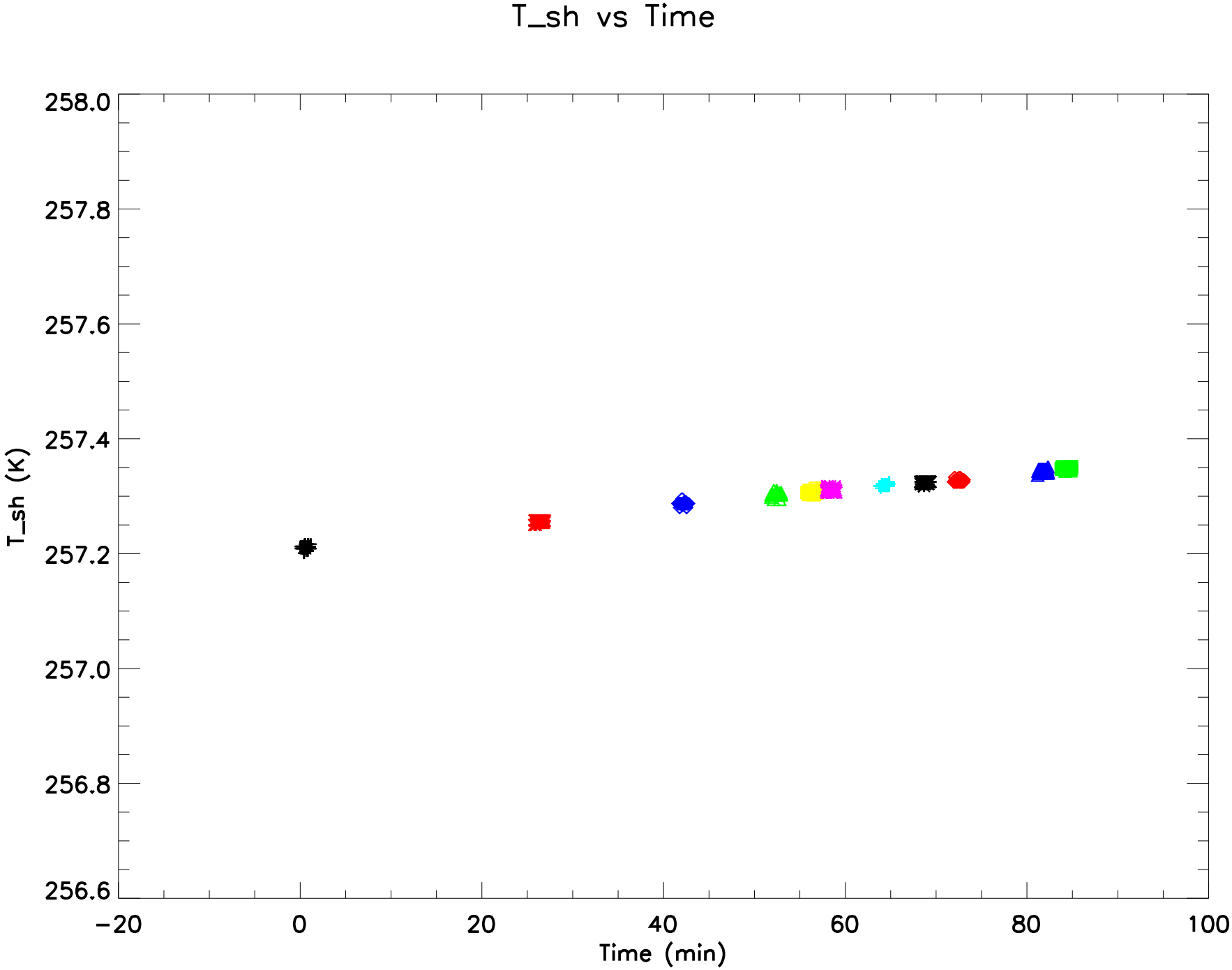

T_sh vs Scan and Collect
258.0
257.8
257.6
257.4
257.2
257.0
256.8
256.6
T_sh (K)
0
100
200
300
400
500
Collect*scan

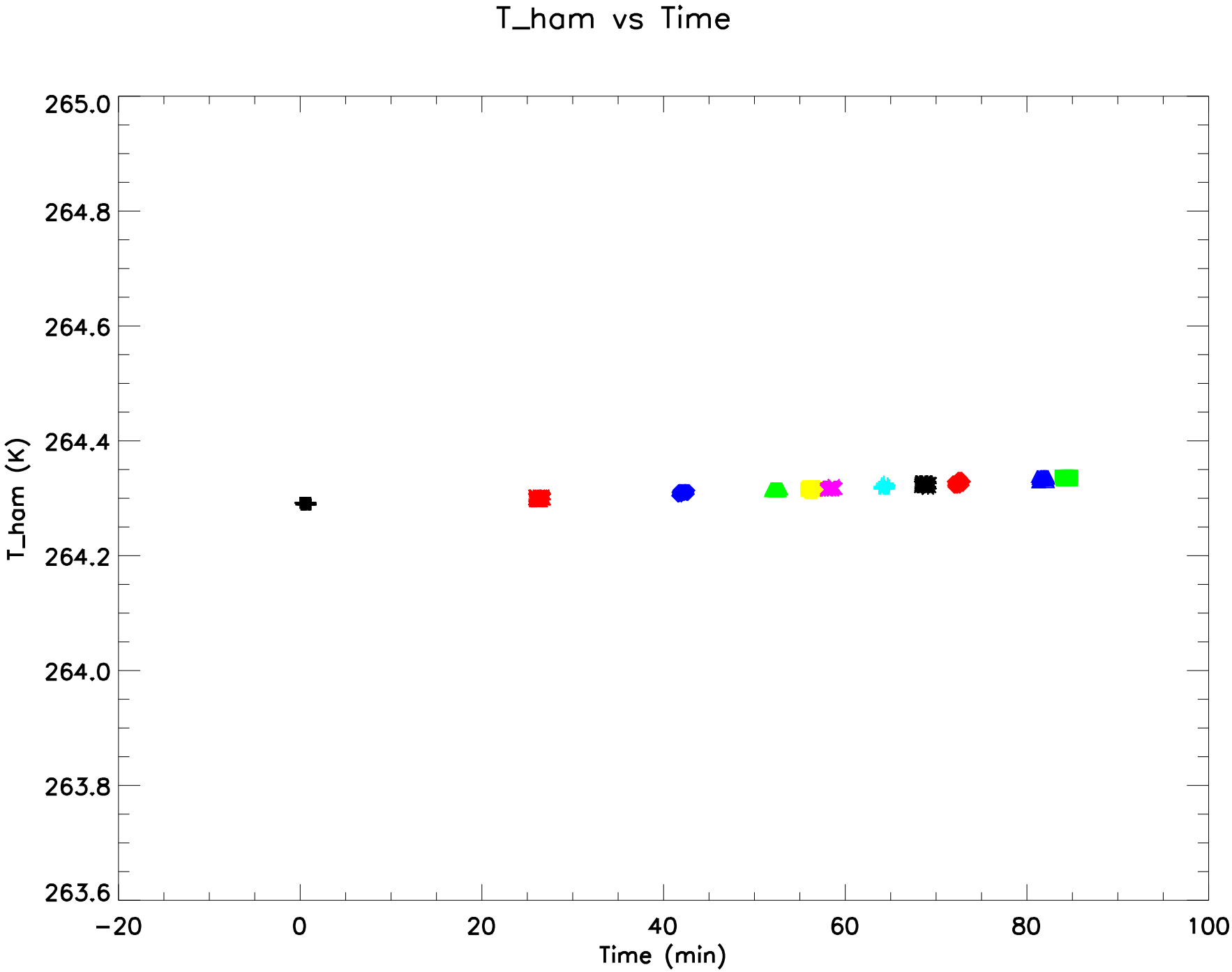

T_ham vs Scan and Collect
265.0
264.8
264.6
264.4
264.2
264.0
263.8
263.6
T_ham (K)
0
100
200
300
400
500
Collect*scan

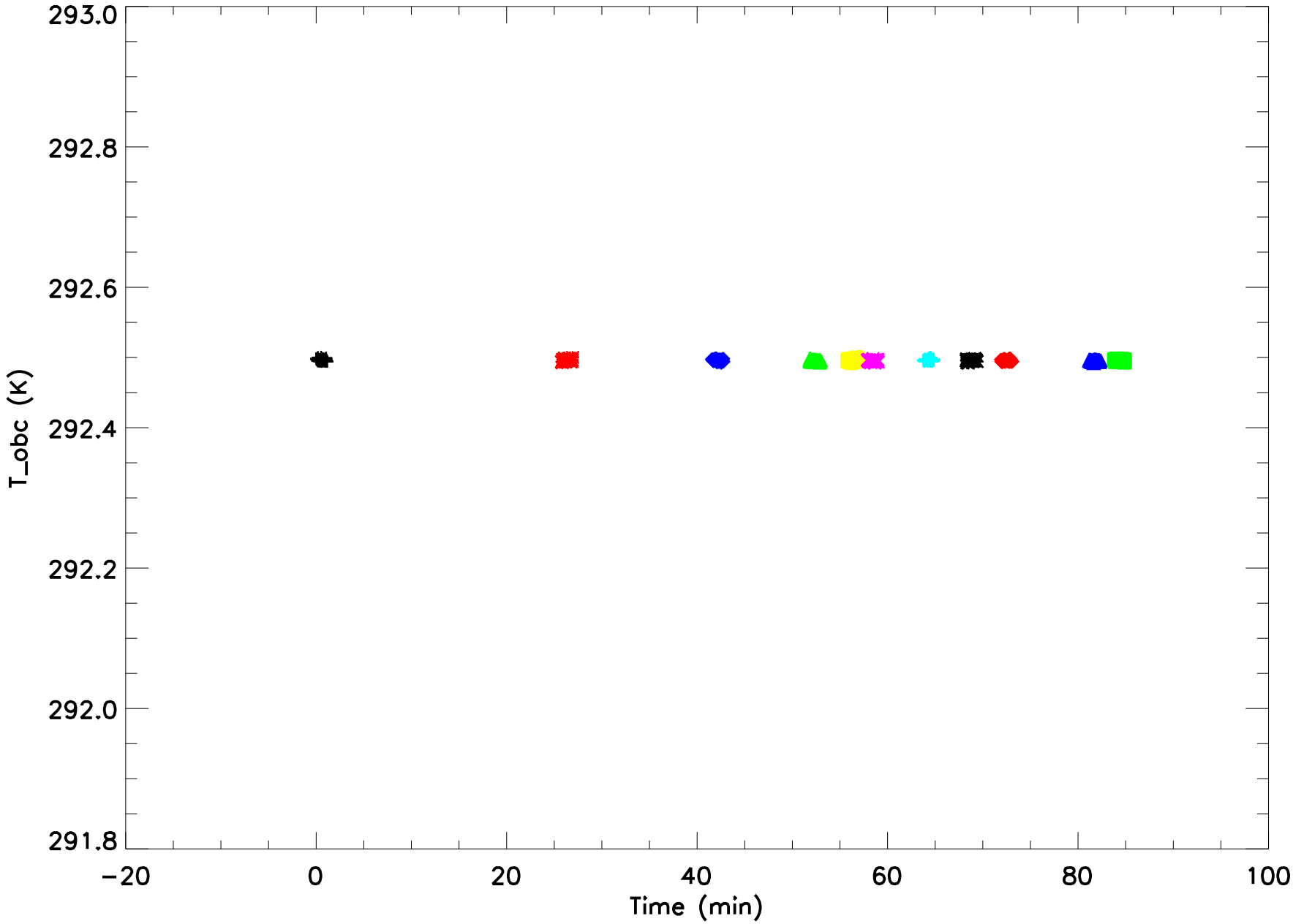

T_obc vs Scan and Collect
293.0
292.8
292.6
292.4
292.2
292.0
291.8
T_obc (K)
0
100
200
300
400
500
Collect*scan


T_rta vs Time
250.2
250.0
249.8
249.6
249.4
249.2
249.0
248.8
T_rta (K)
−20
0
20
40
60
80
100
Time (min)

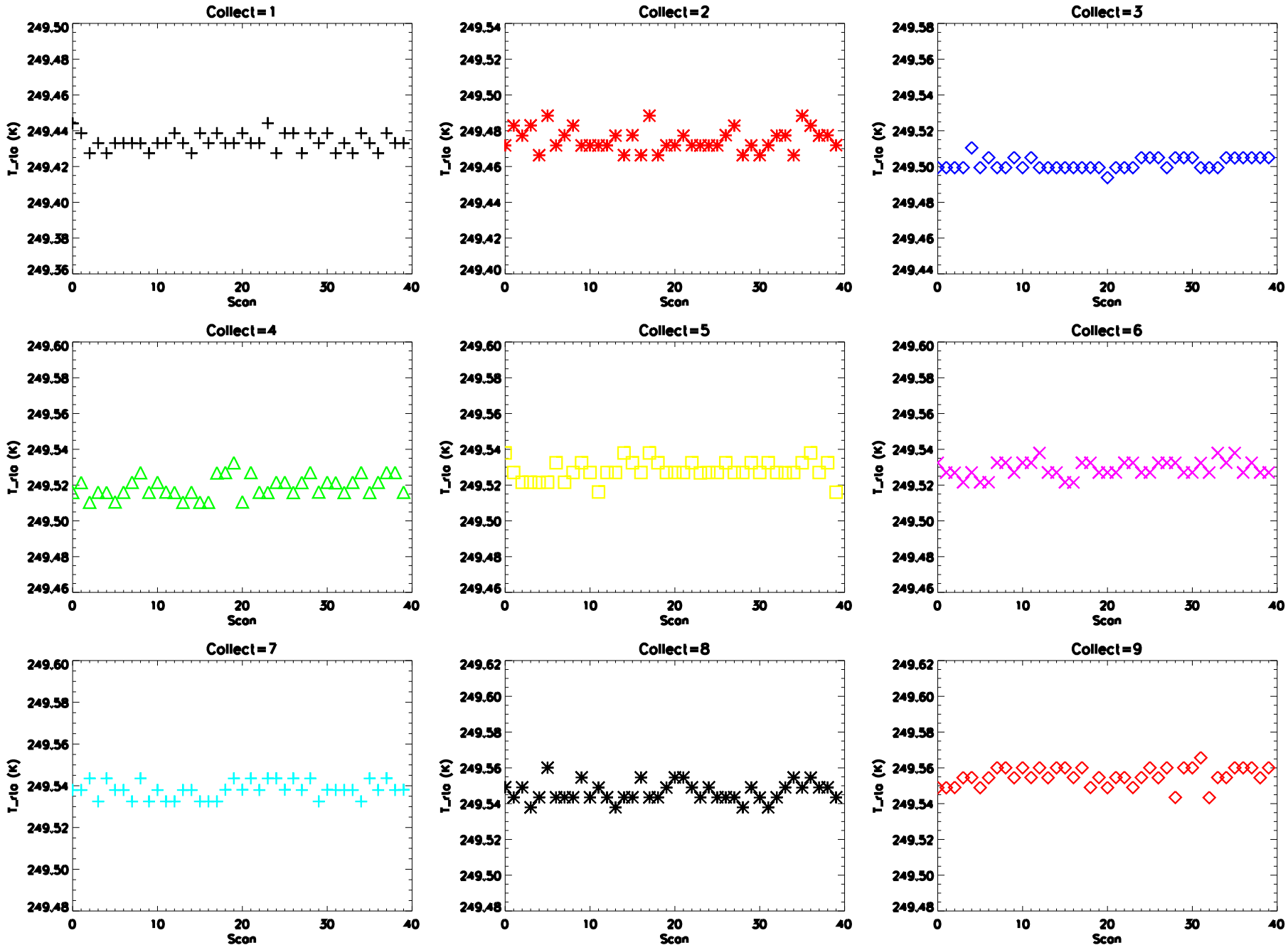

T_cav vs Time
254.4
254.2
254.0
253.8
253.6
253.4
253.2
253.0
T_cav (K)
−20
0
20
40
60
80
100
Time (min)


T_sh vs Time
258.0
257.8
257.6
257.4
257.2
257.0
256.8
256.6
T_sh (K)
−20
0
20
40
60
80
100
Time (min)

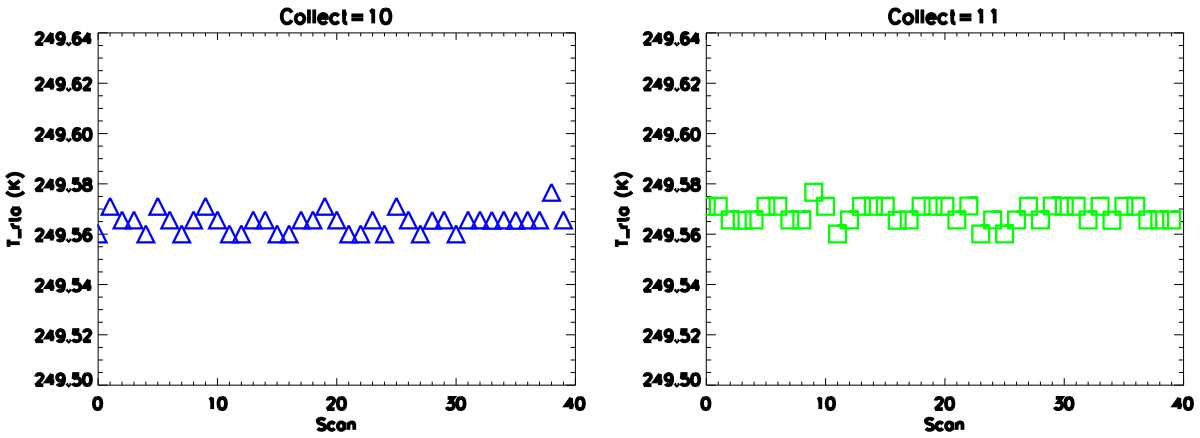

T_ham vs Time
265.0
264.8
264.6
264.4
264.2
264.0
263.8
263.6
T_ham (K)
−20
0
20
40
60
80
100
Time (min)


T_obc vs Time
293.0
292.8
292.6
292.4
292.2
292.0
291.8
T_obc (K)
−20
0
20
40
60
80
100
Time (min)

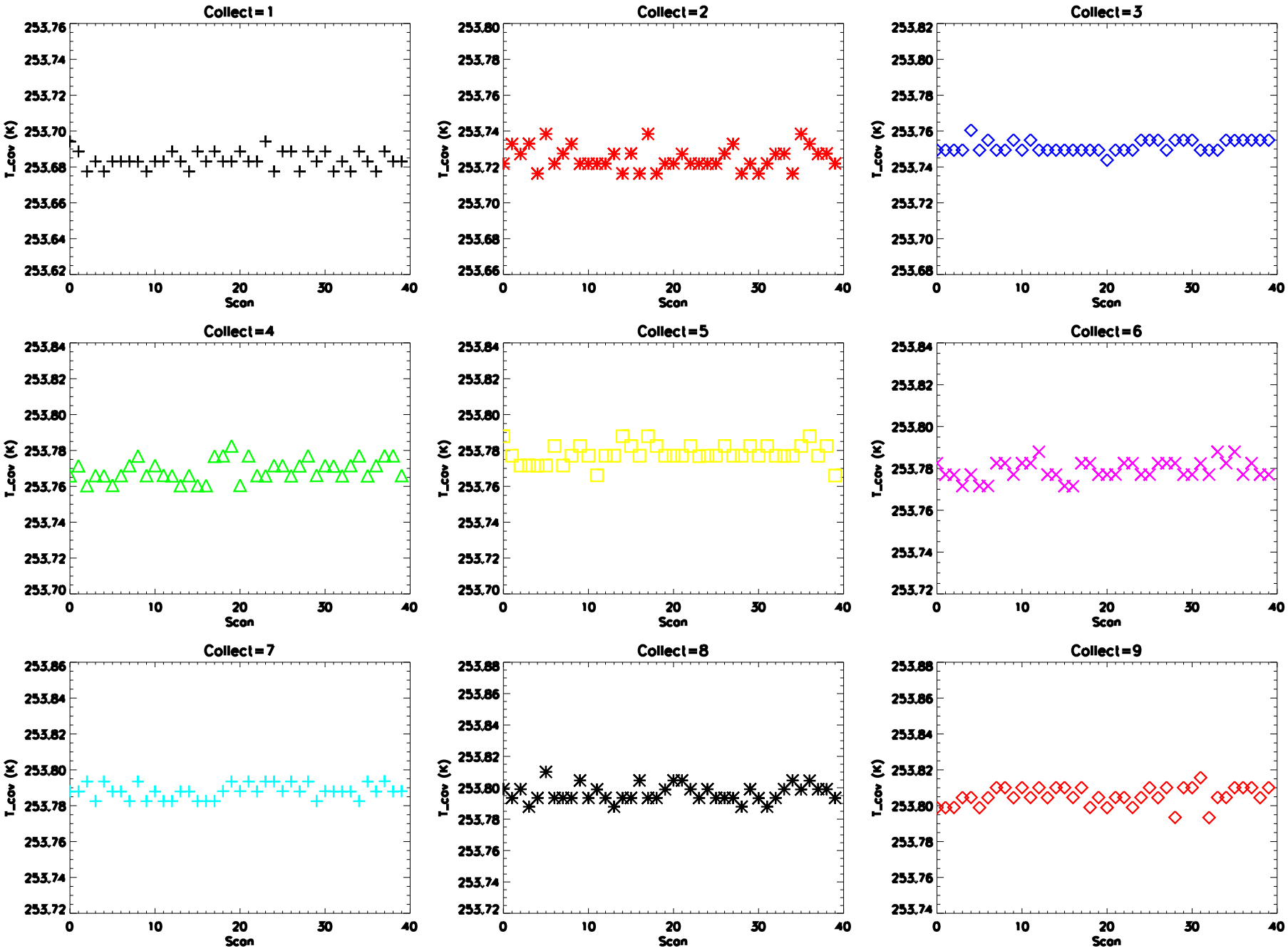
T_rta vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_rta (K)
Scan

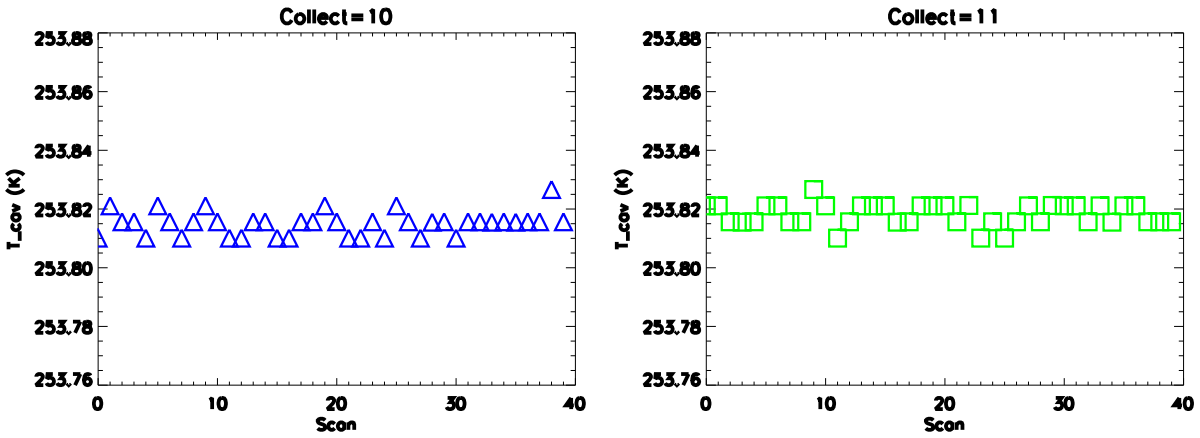
T_rta vs Scan


Collect = 10
Collect = 11
T_rta (K)
249.64
249.62
249.60
249.58
249.56
249.54
249.52
249.50
0
10
20
30
40
Scan

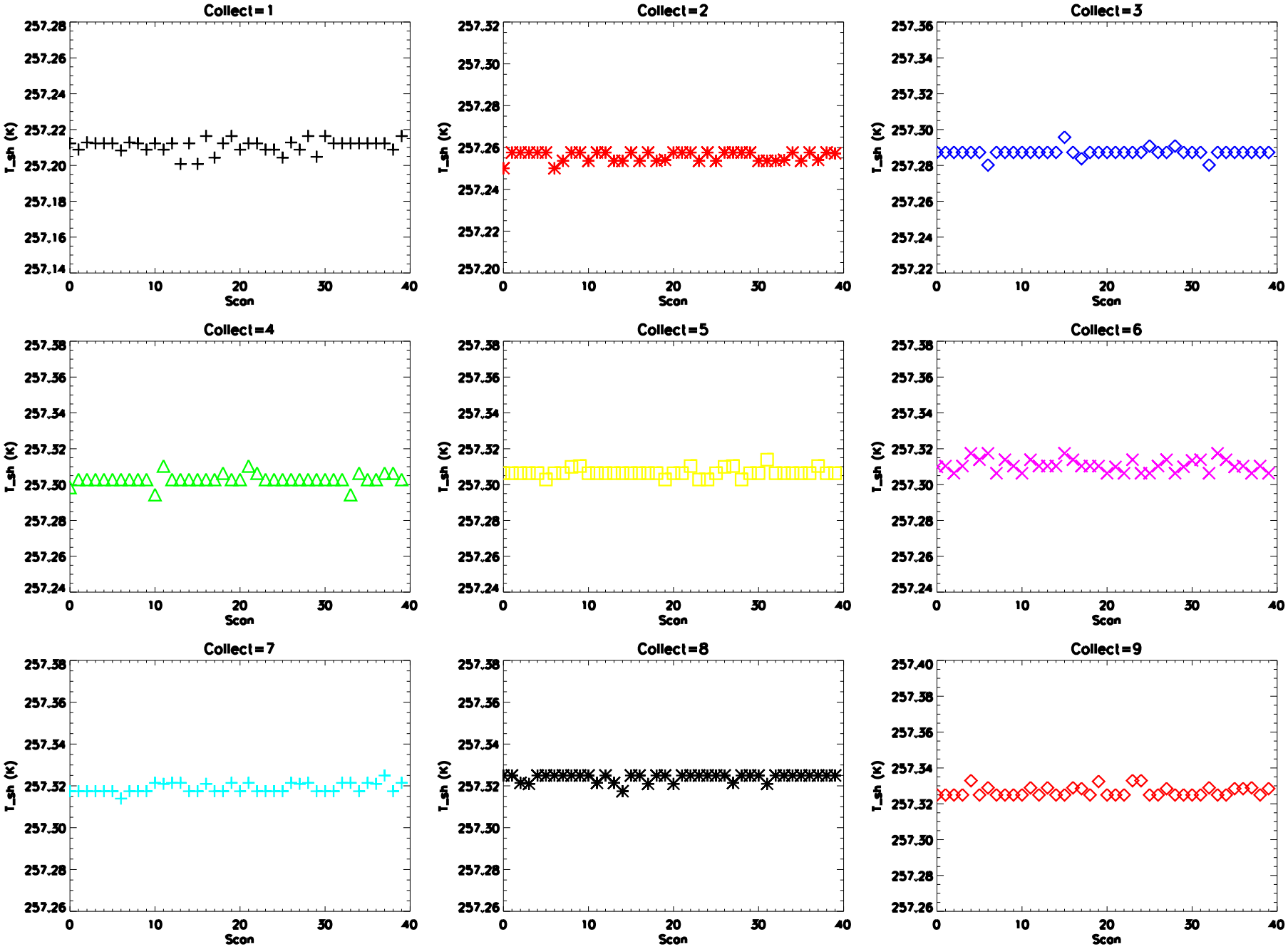
T_cav vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_cav (K)
Scan

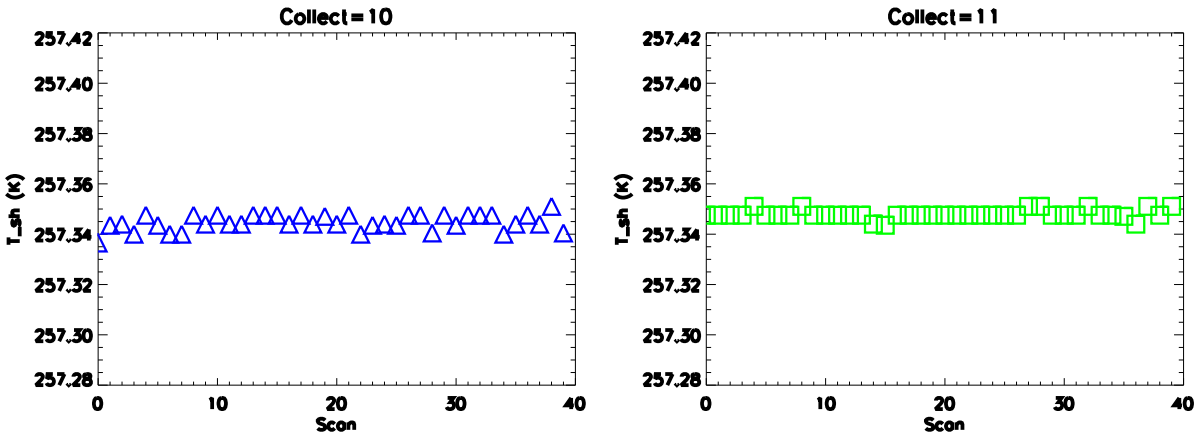
T_cav vs Scan


Collect = 10
Collect = 11
T_cav (K)
Scan
253.88
253.86
253.84
253.82
253.80
253.78
253.76
0
10
20
30
40

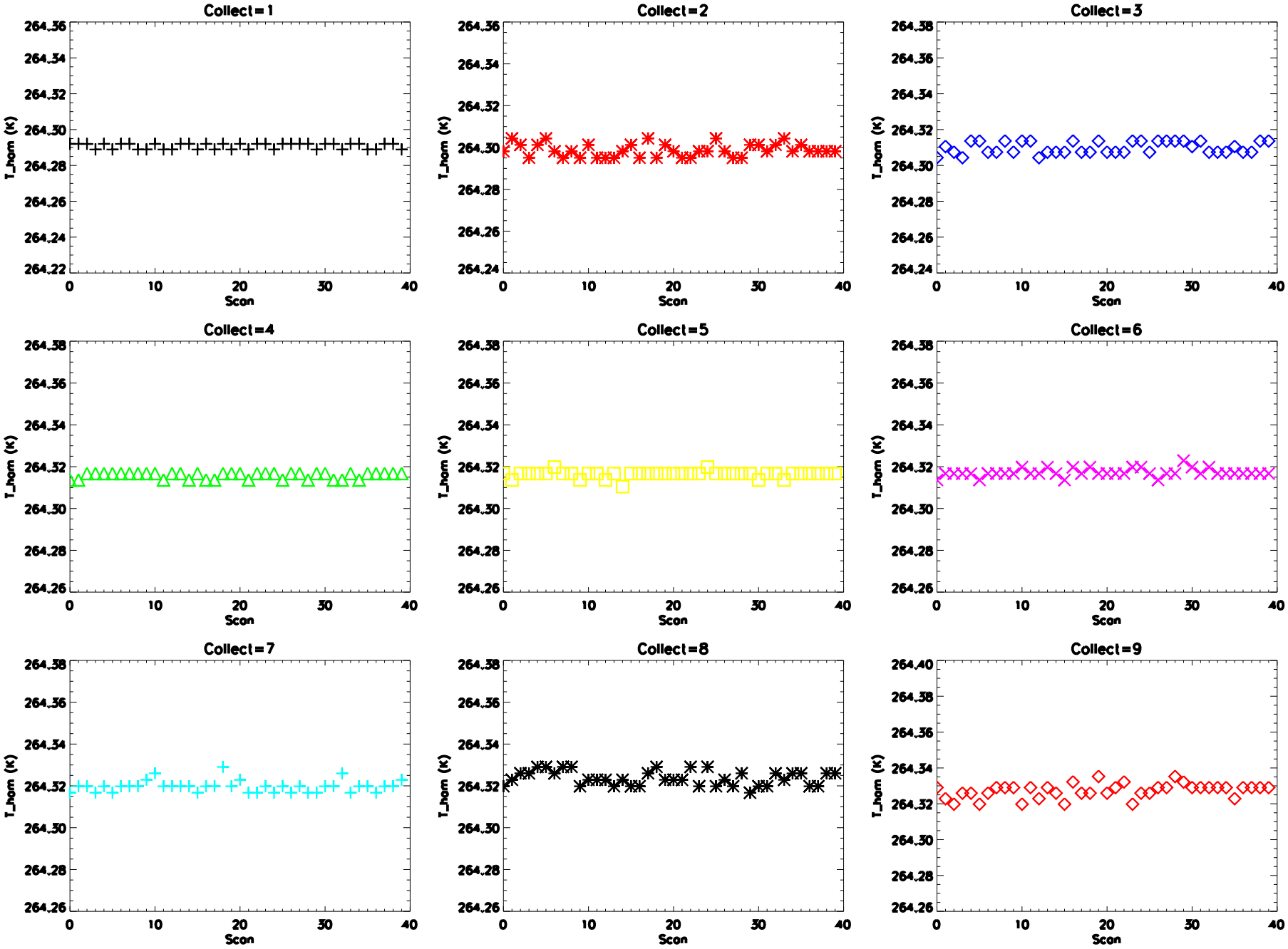
T_sh vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_sh (K)
Scan

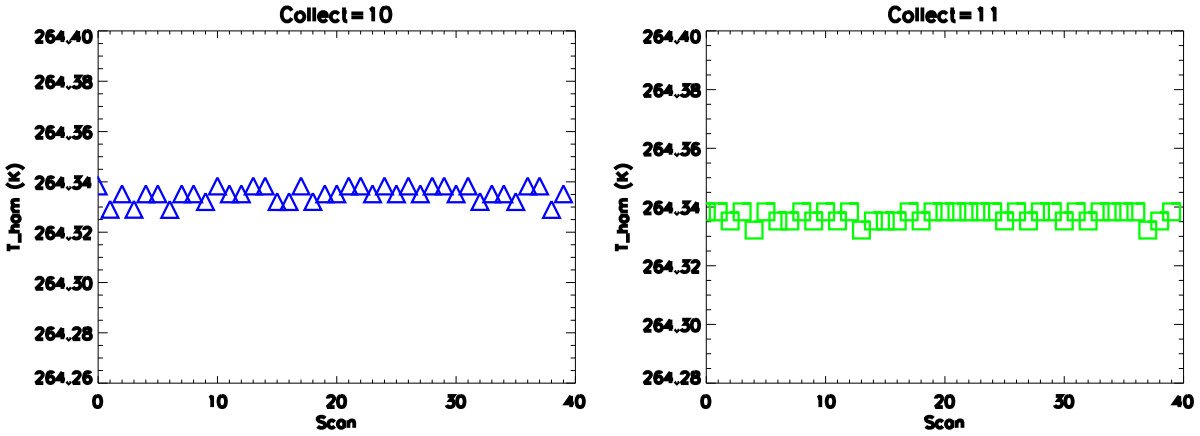
T_sh vs Scan


Collect = 10
Collect = 11
T_sh (K)
Scan
257.42
257.40
257.38
257.36
257.34
257.32
257.30
257.28
0
10
20
30
40

T_ham vs Scan

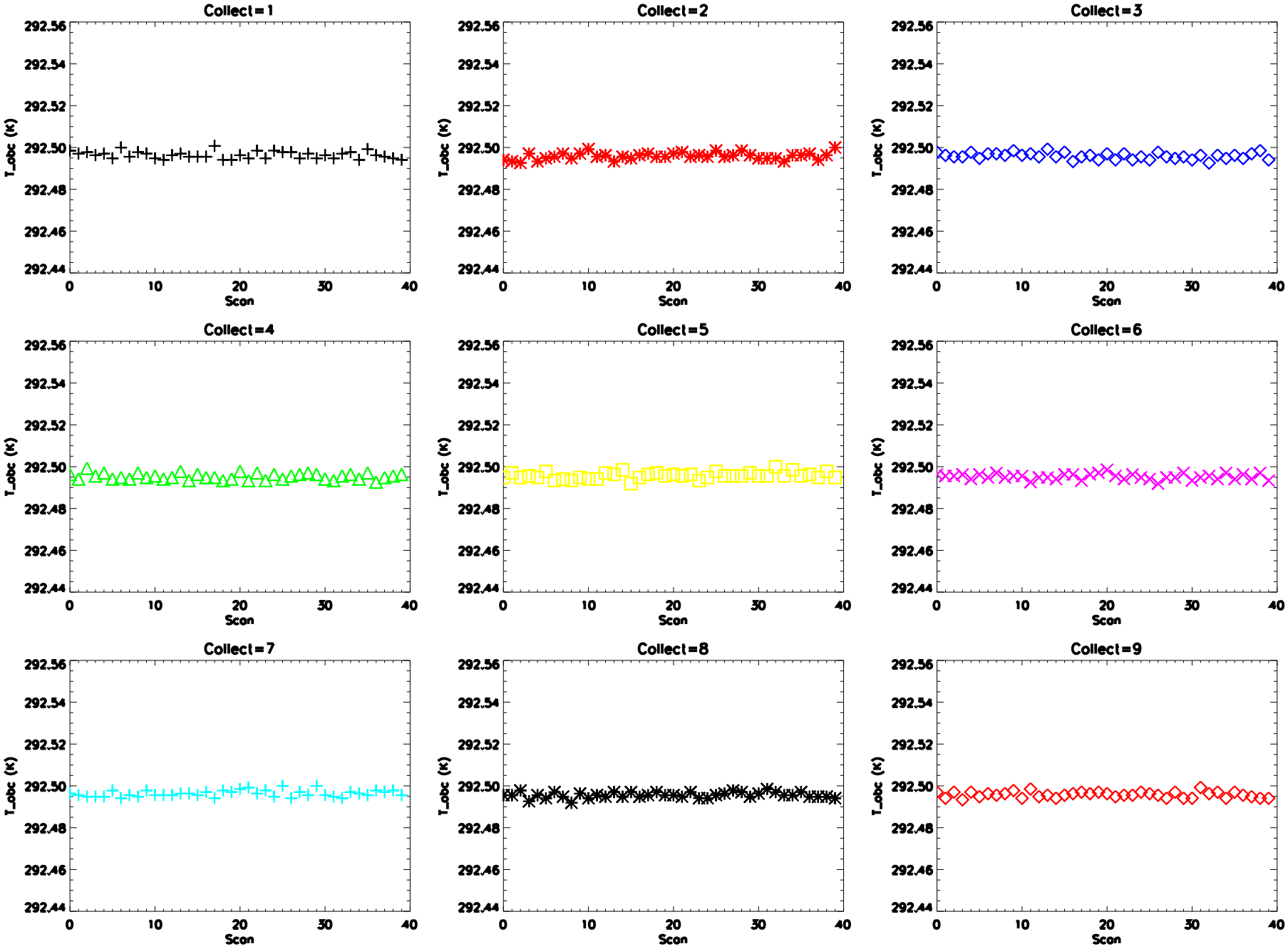

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_ham (K)
Scan

T_ham vs Scan

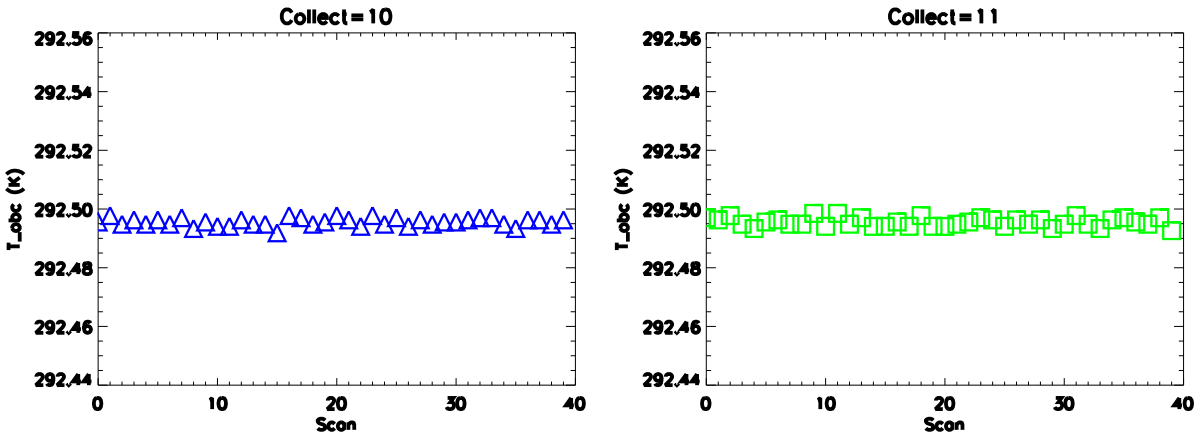

Collect = 10
T_ham (K)
264.40
264.38
264.36
264.34
264.32
264.30
264.28
264.26
0
10
20
30
40
Scan

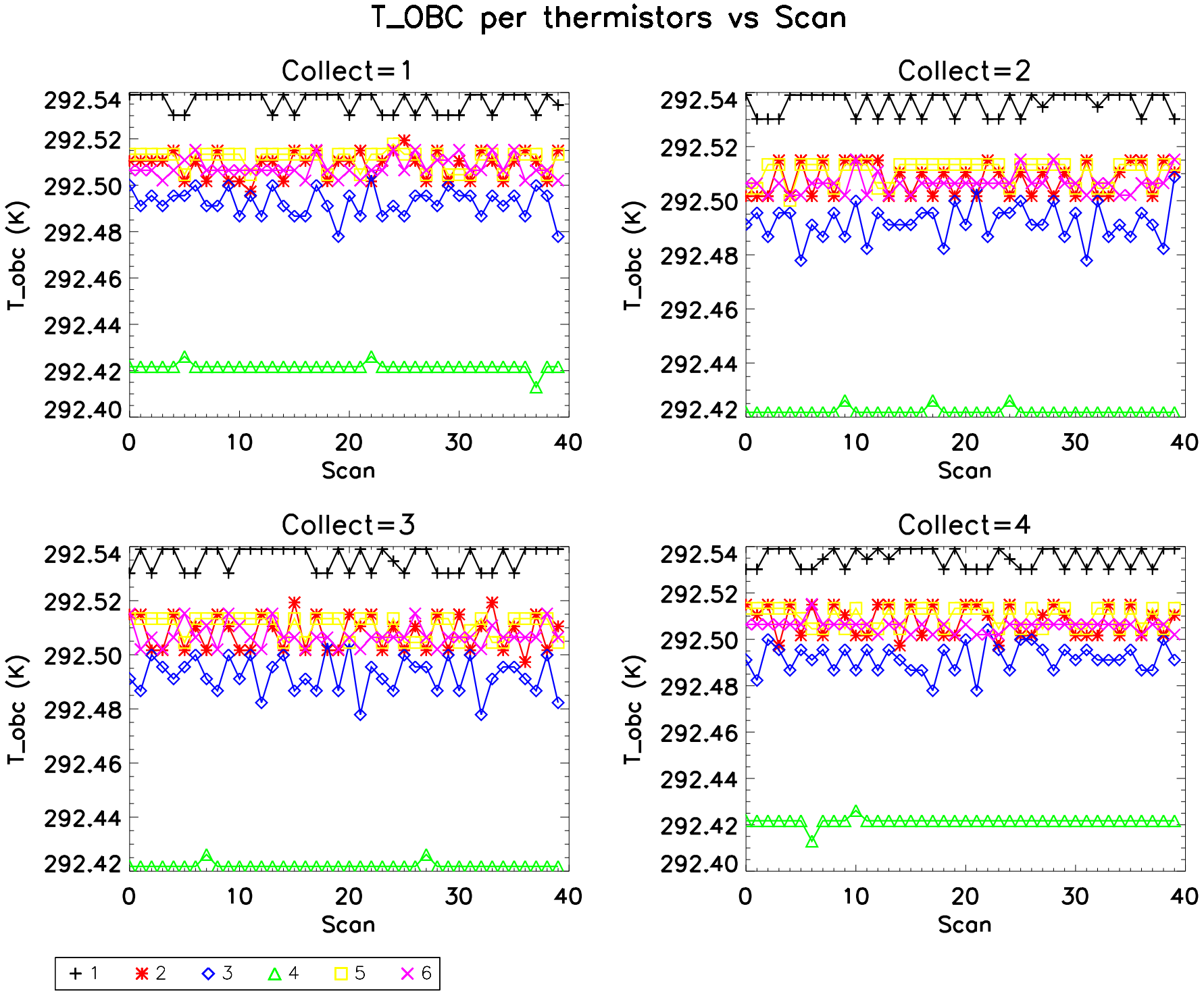
Collect = 11
T_ham (K)
264.40
264.38
264.36
264.34
264.32
264.30
264.28
0
10
20
30
40
Scan

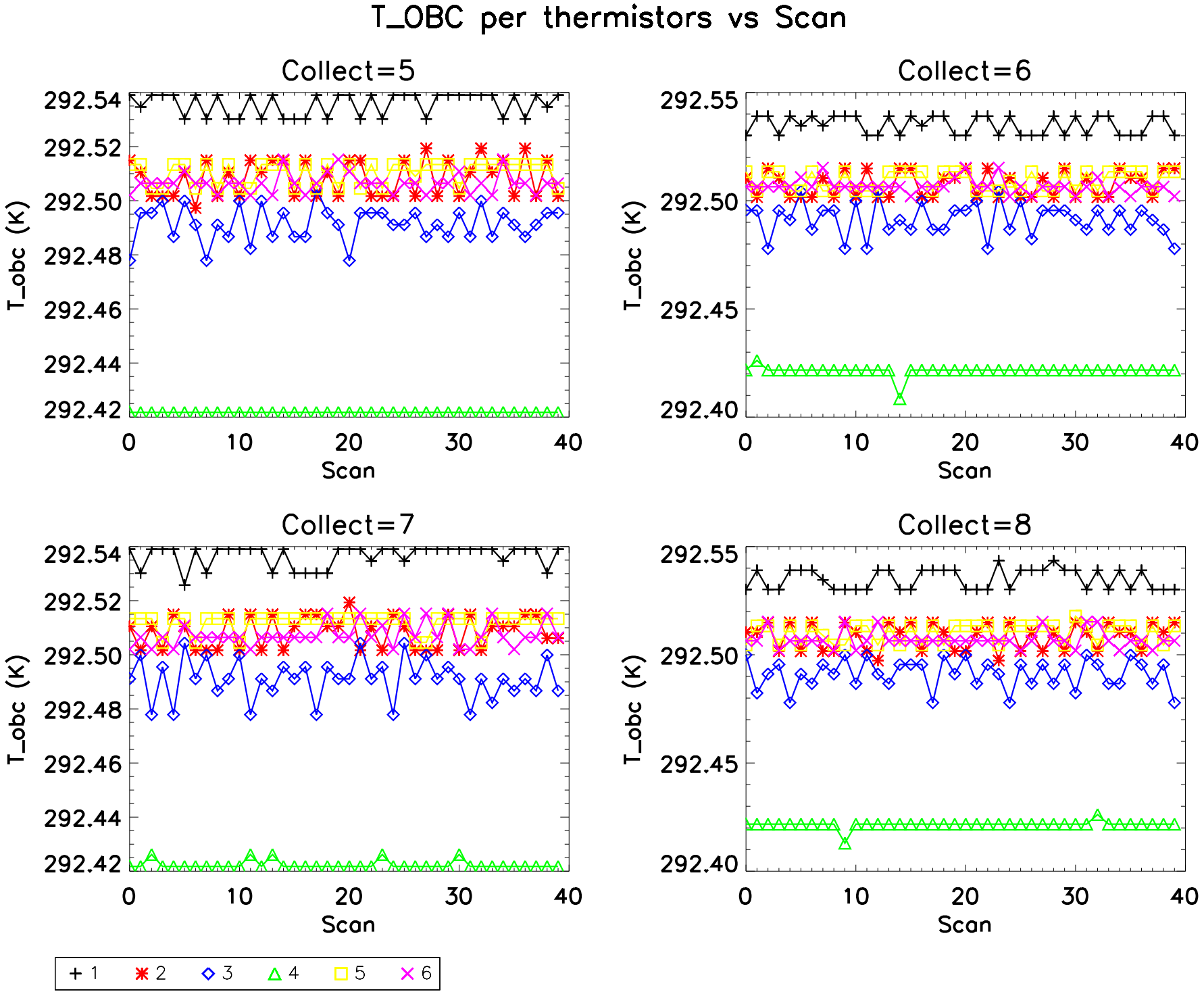
T_obc vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan
292.56
292.54
292.52
292.50
292.48
292.46
292.44
0
10
20
30
40

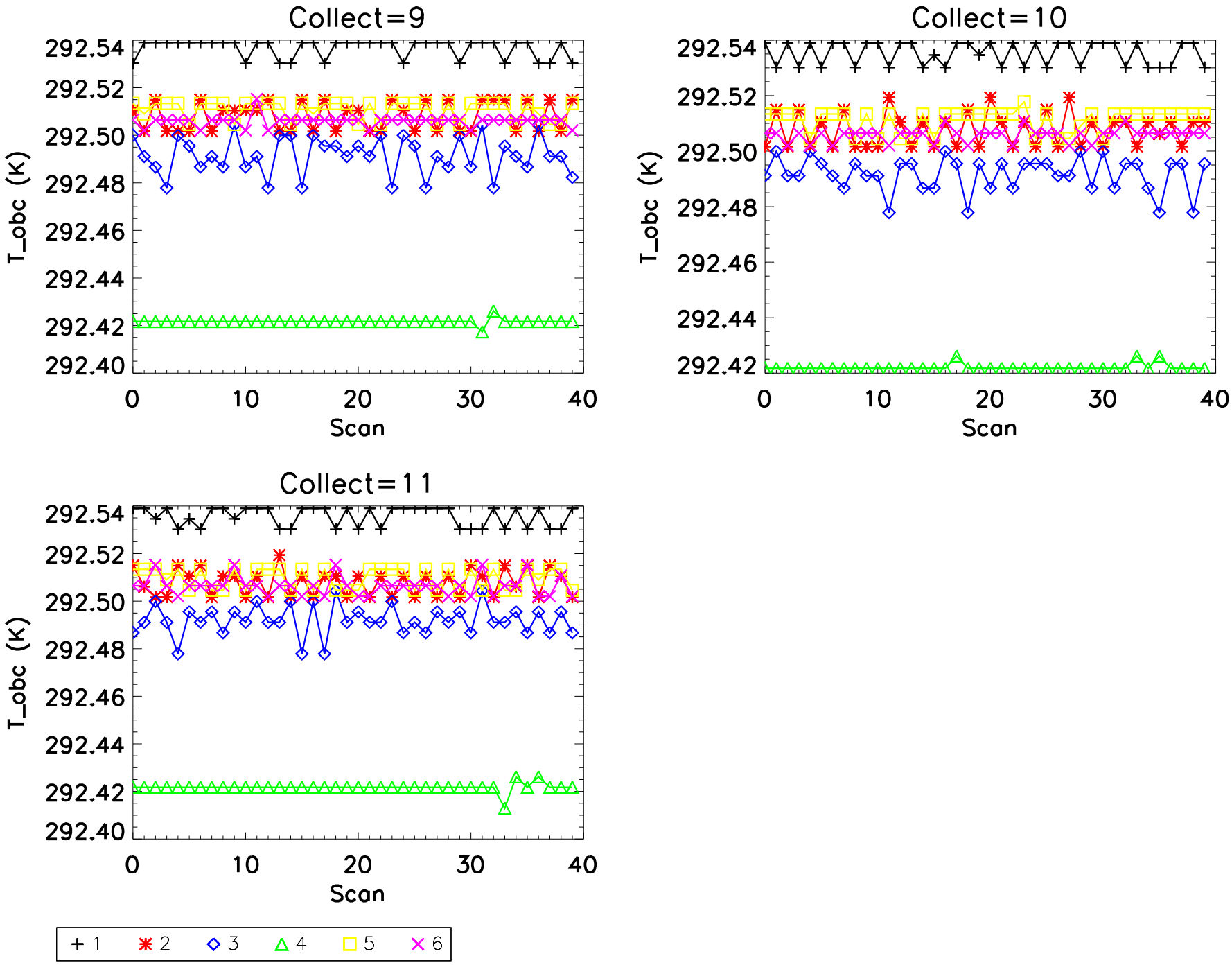
T_obc vs Scan

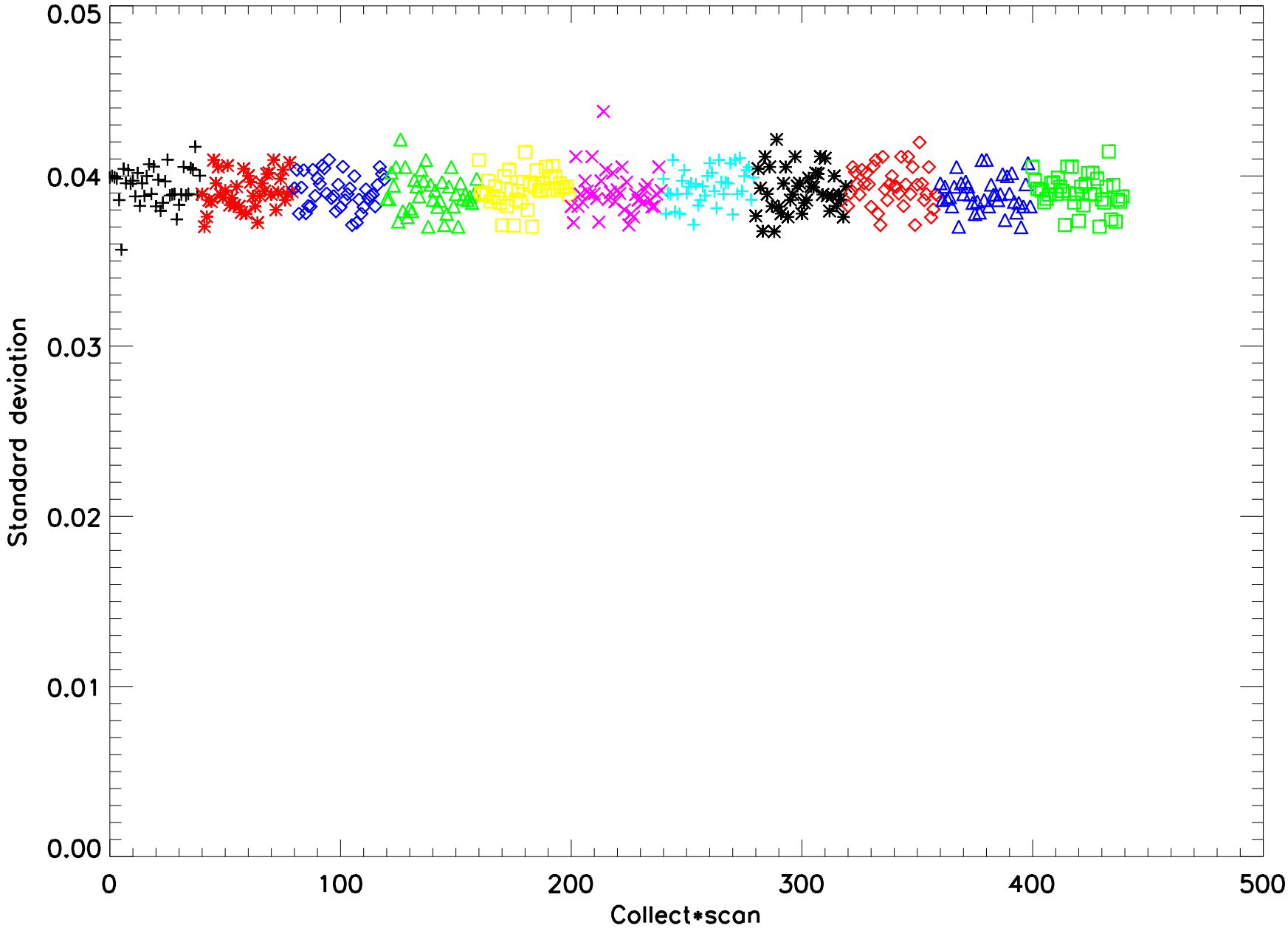

Collect = 10
Collect = 11
T_obc (K)
Scan
292.56
292.54
292.52
292.50
292.48
292.46
292.44
0
10
20
30
40

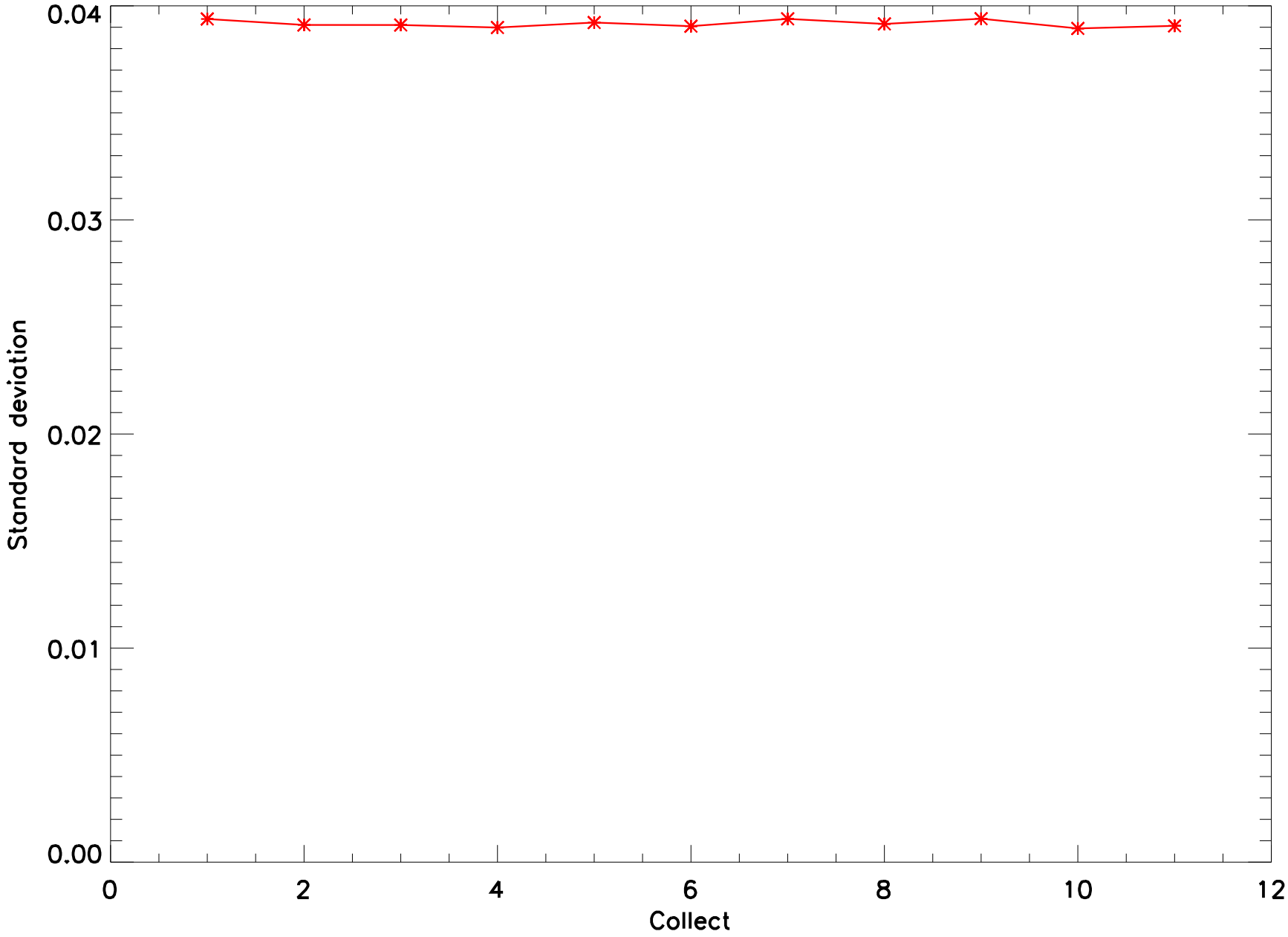

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
Scan
292.54
292.52
292.50
292.48
292.46
292.44
292.42
292.40
0
10
20
30
40
1
2
3
4
5
6

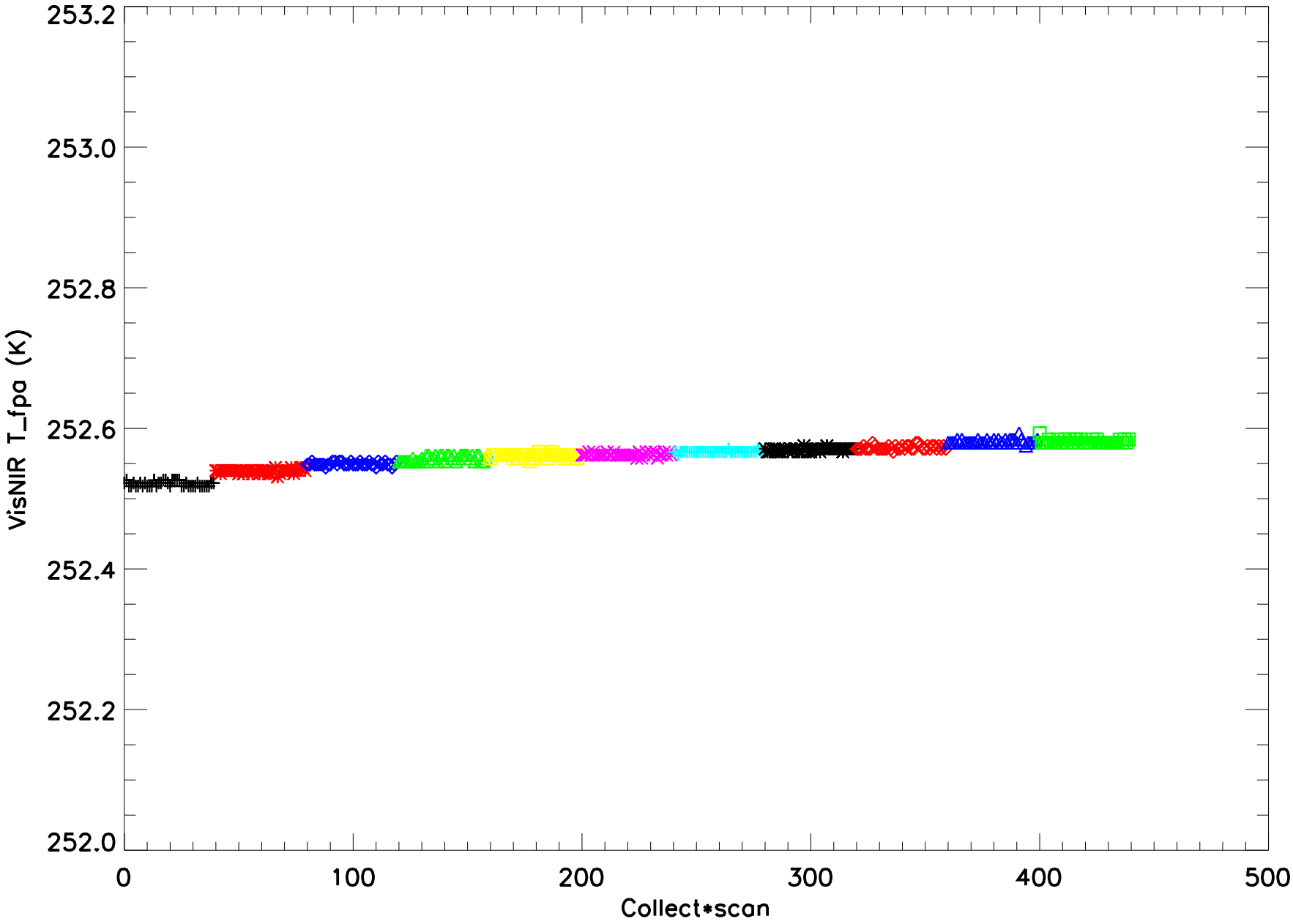

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
Scan
292.54
292.52
292.50
292.48
292.46
292.44
292.42
292.55
292.45
292.40
0
10
20
30
40
1
2
3
4
5
6

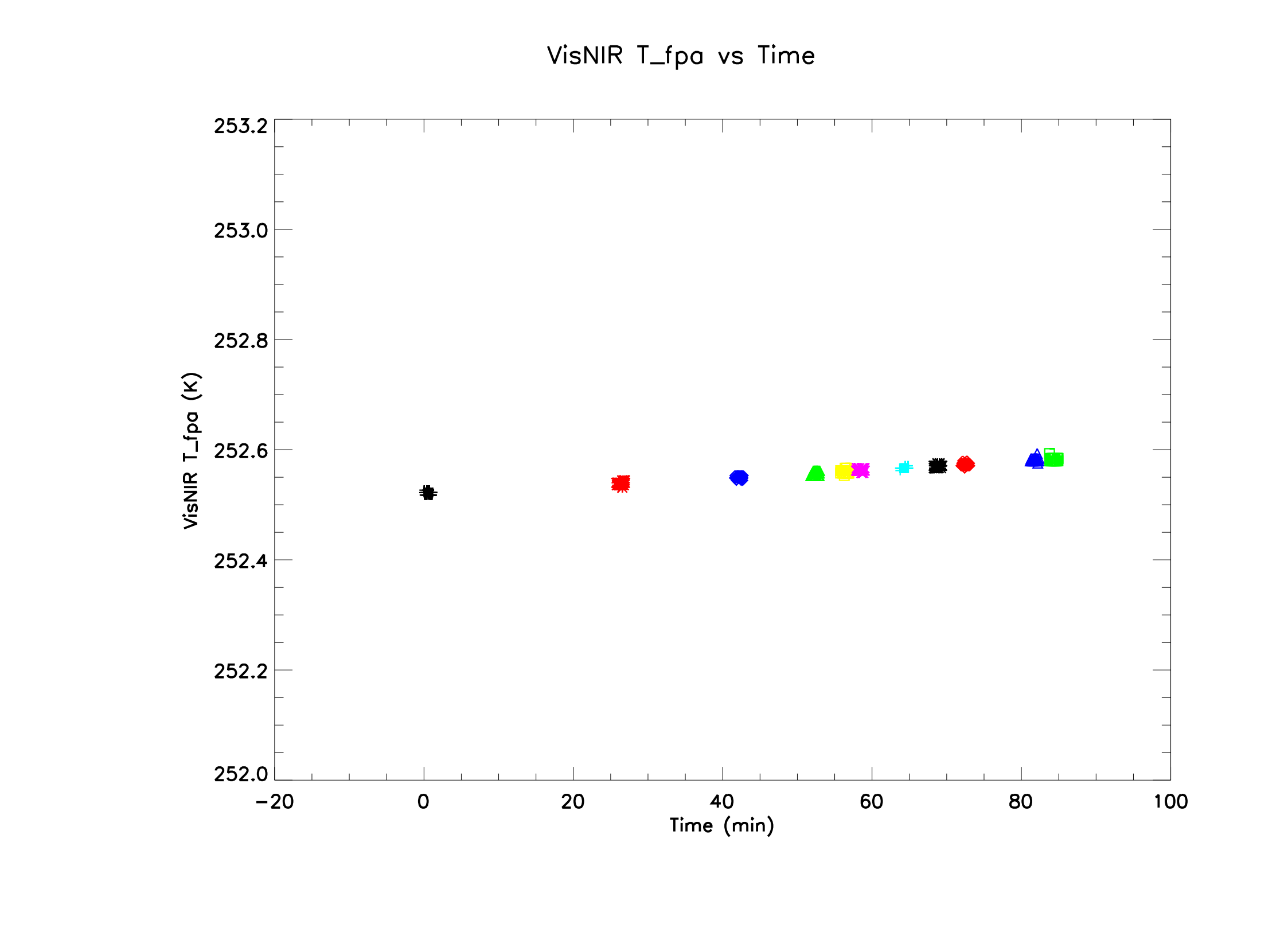
T_OBC per thermistors vs Scan

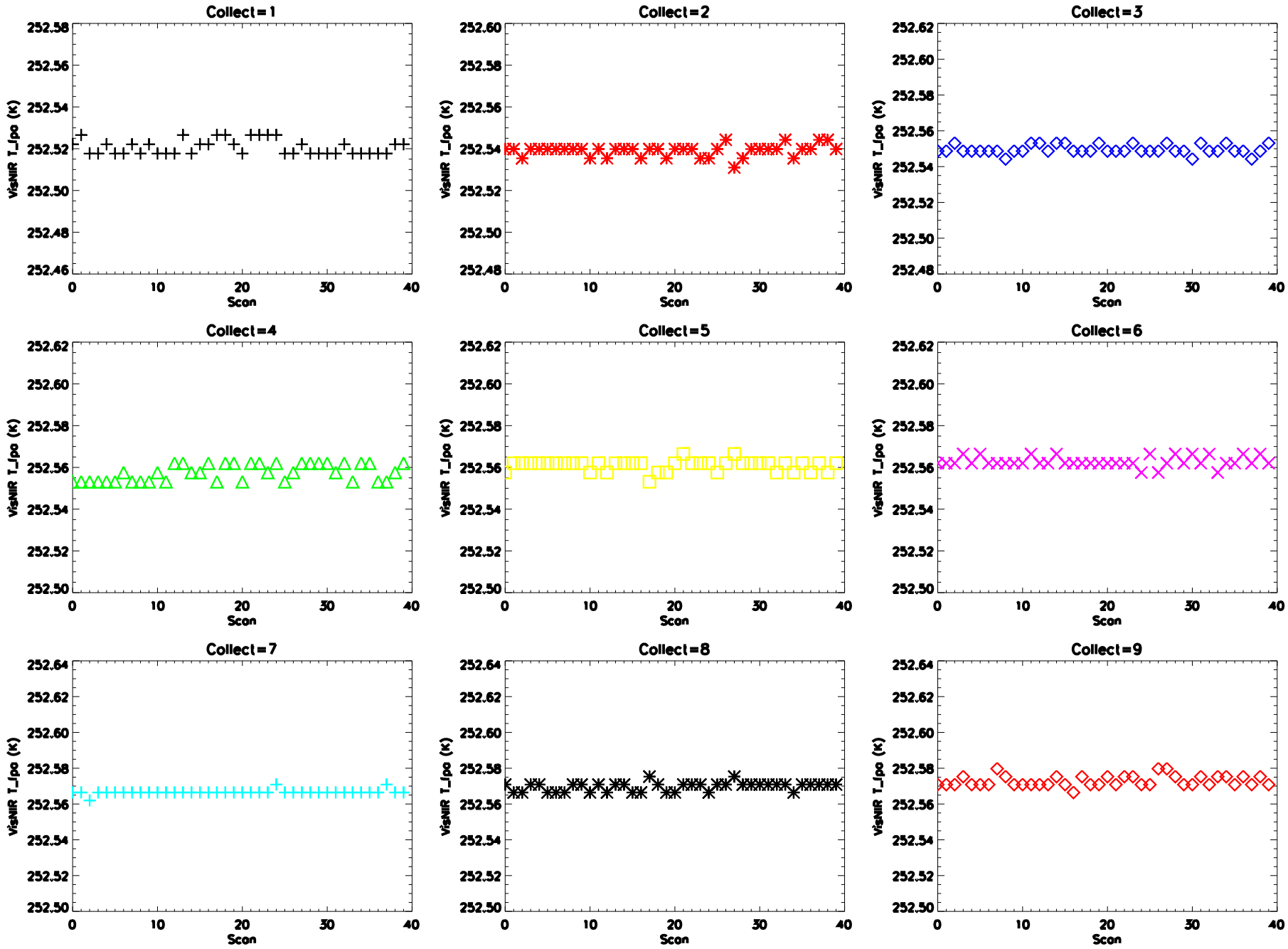



OBC thermistor standard deviation vs Scan and Collect
Standard deviation
0.05
0.04
0.03
0.02
0.01
0.00
0
100
200
300
400
500
Collect*scan

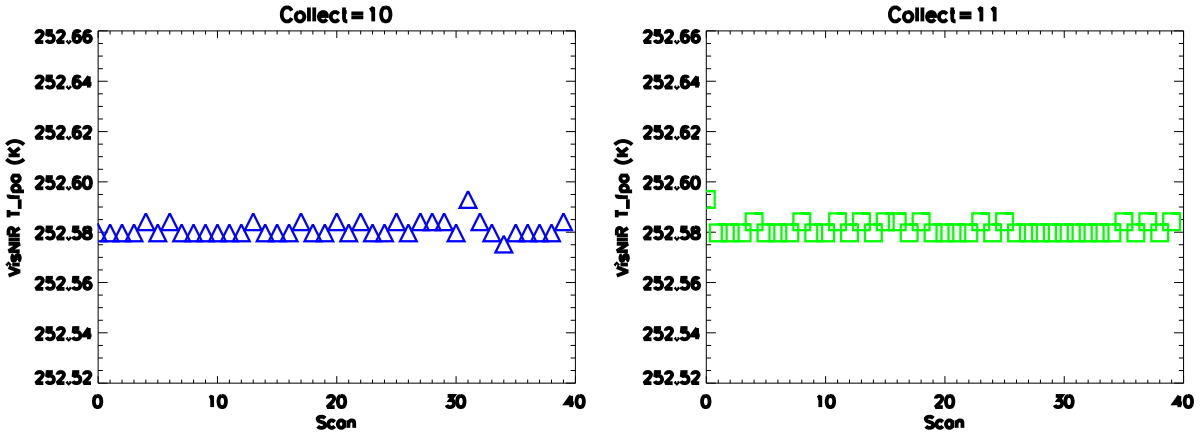

OBC thermistor standard deviation vs Collect
Standard deviation
0.04
0.03
0.02
0.01
0.00
0
2
4
6
8
10
12
Collect

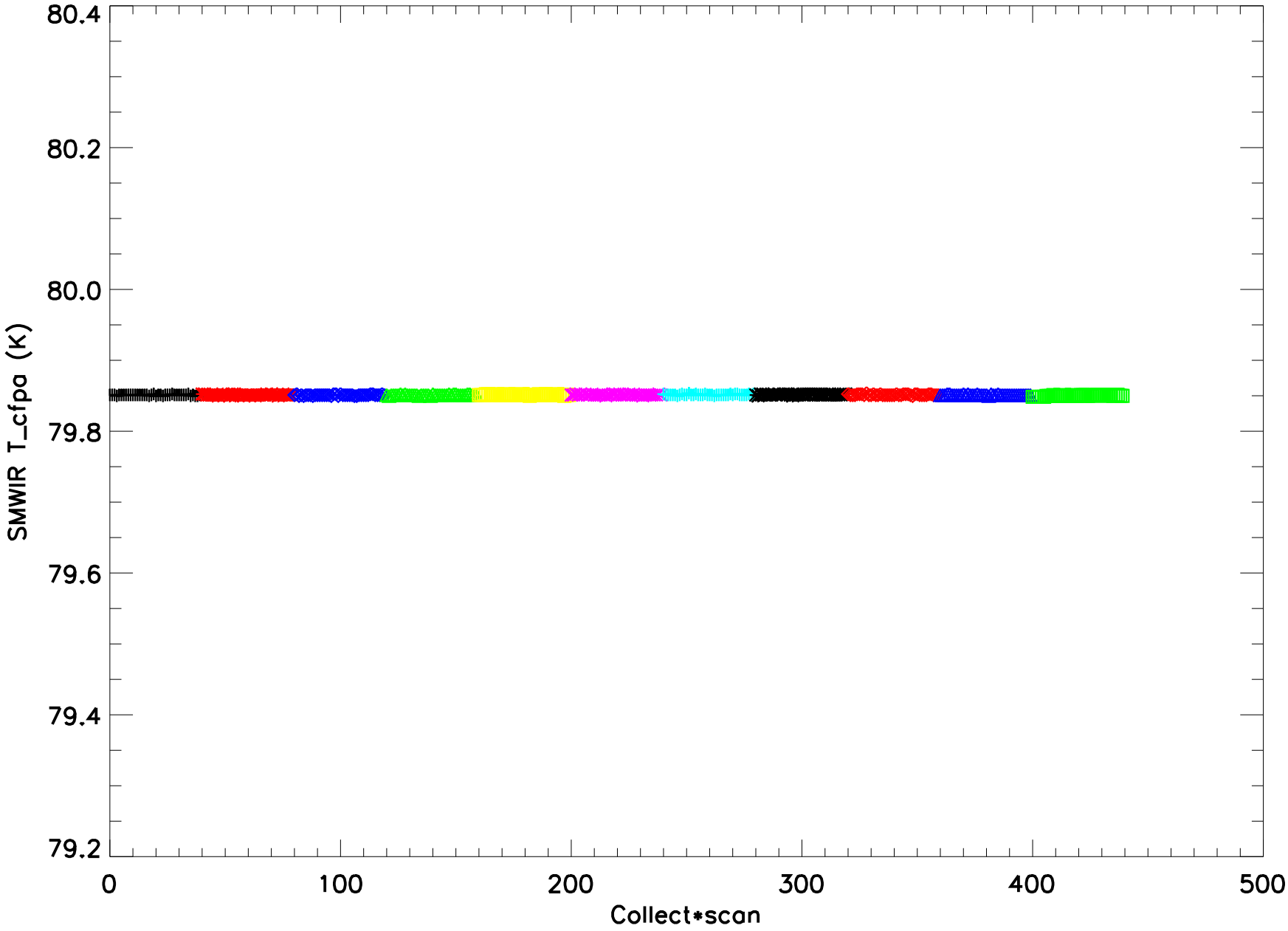

VisNIR T_fpa vs Scan and Collect
253.2
253.0
252.8
252.6
252.4
252.2
252.0
VisNIR T_fpa (K)
0
100
200
300
400
500
Collect*scan

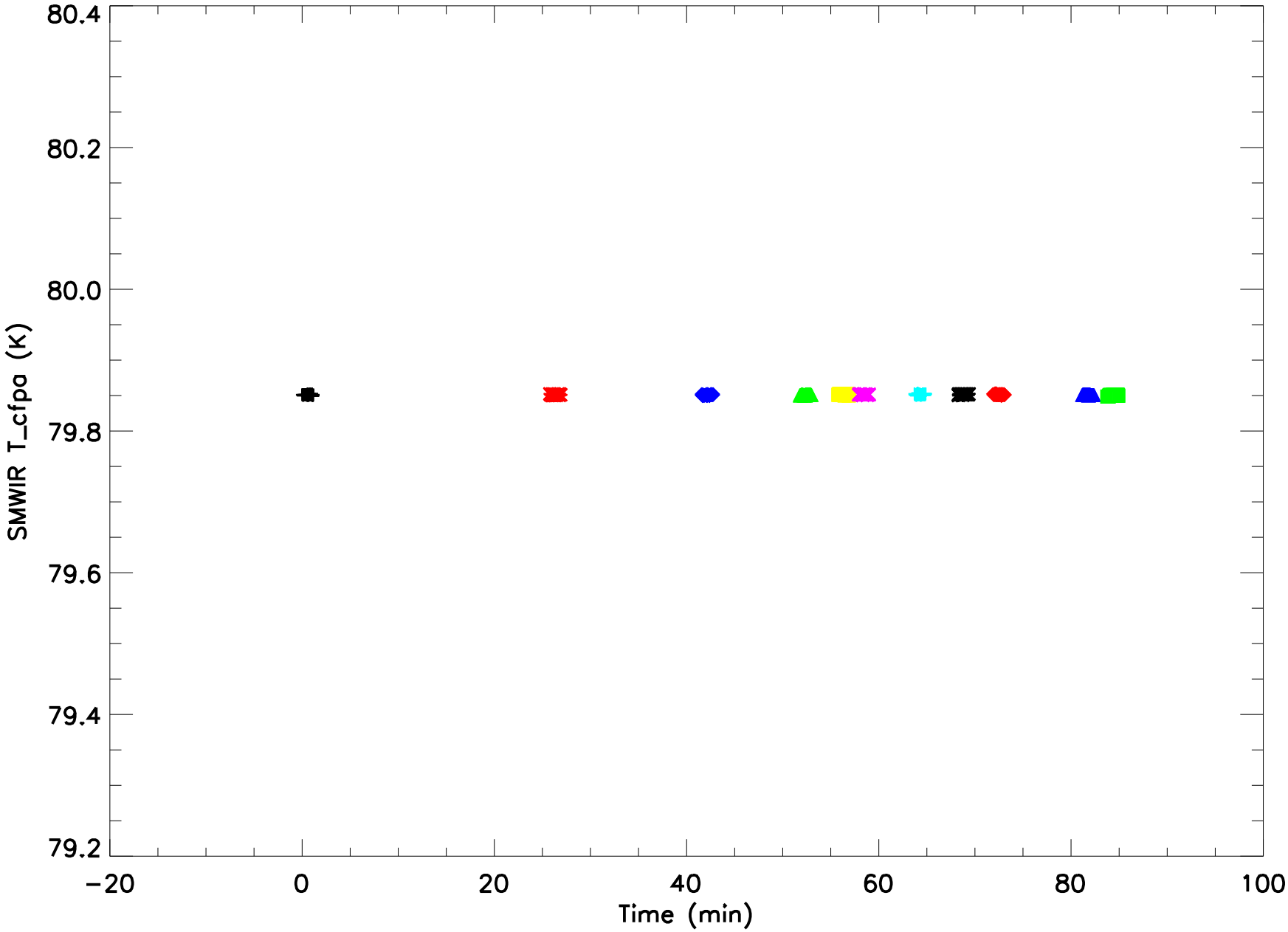

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
253.2
253.0
252.8
252.6
252.4
252.2
252.0
−20
0
20
40
60
80
100
Time (min)

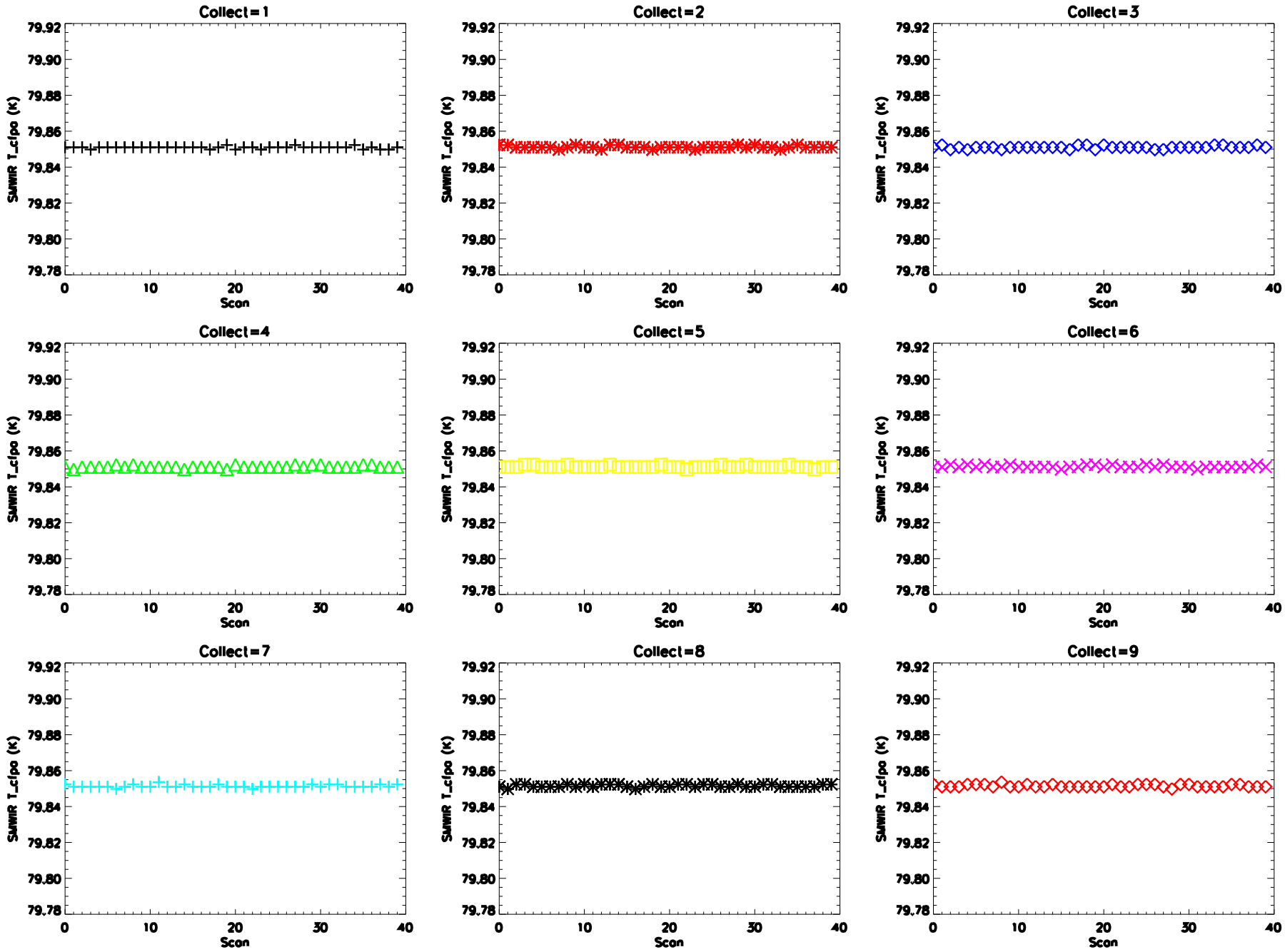

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_lpo (K)
Scan

VisNIR T_fpa vs Scan

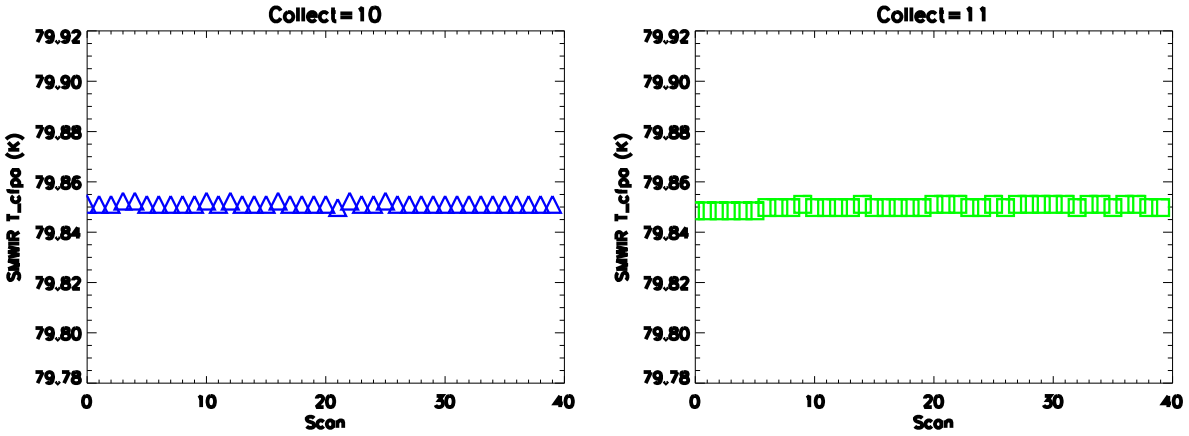


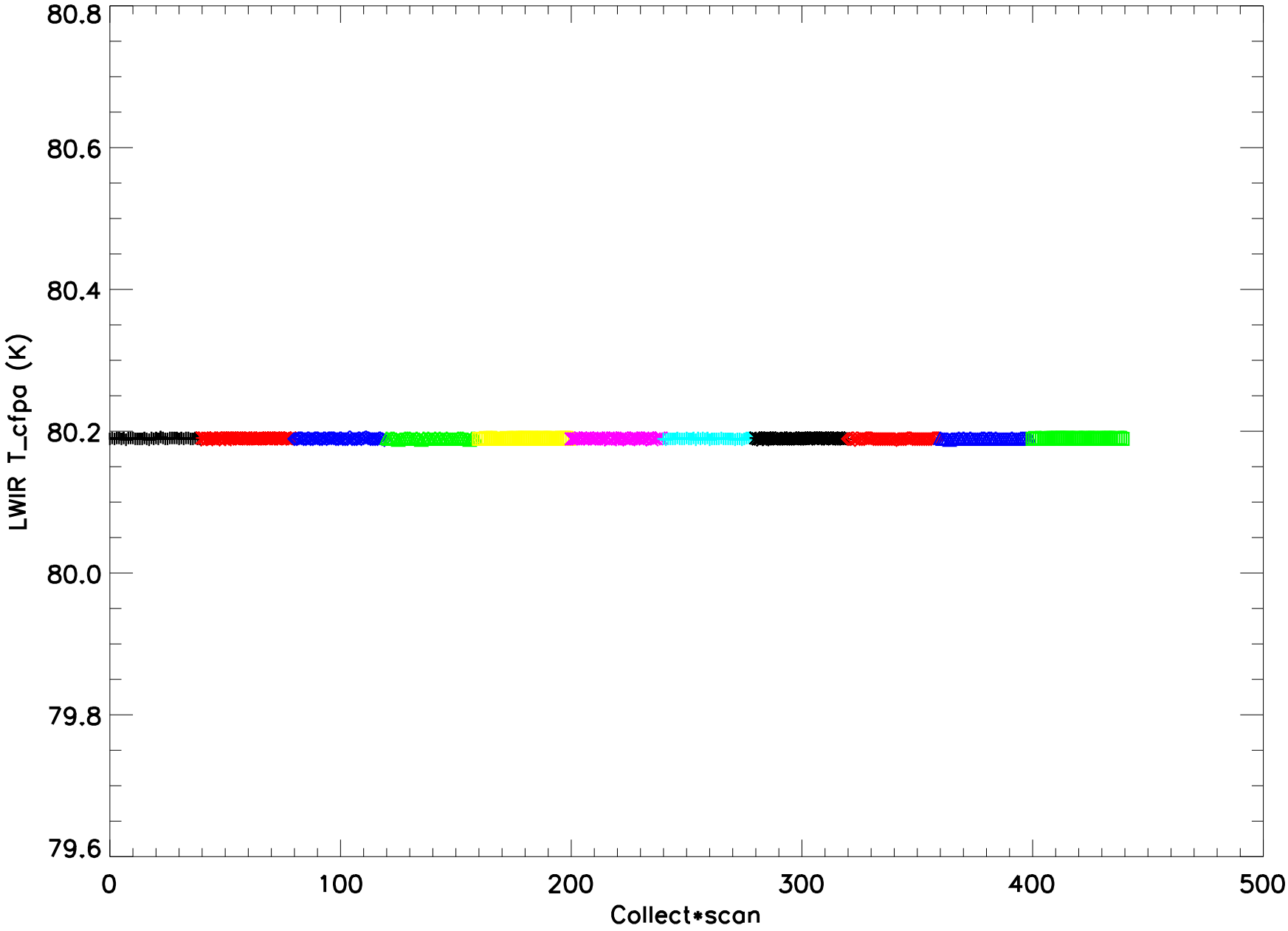

SMWIR T_cfpa vs Scan and Collect
80.4
80.2
80.0
79.8
79.6
79.4
79.2
SMWIR T_cfpa (K)
0
100
200
300
400
500
Collect*scan

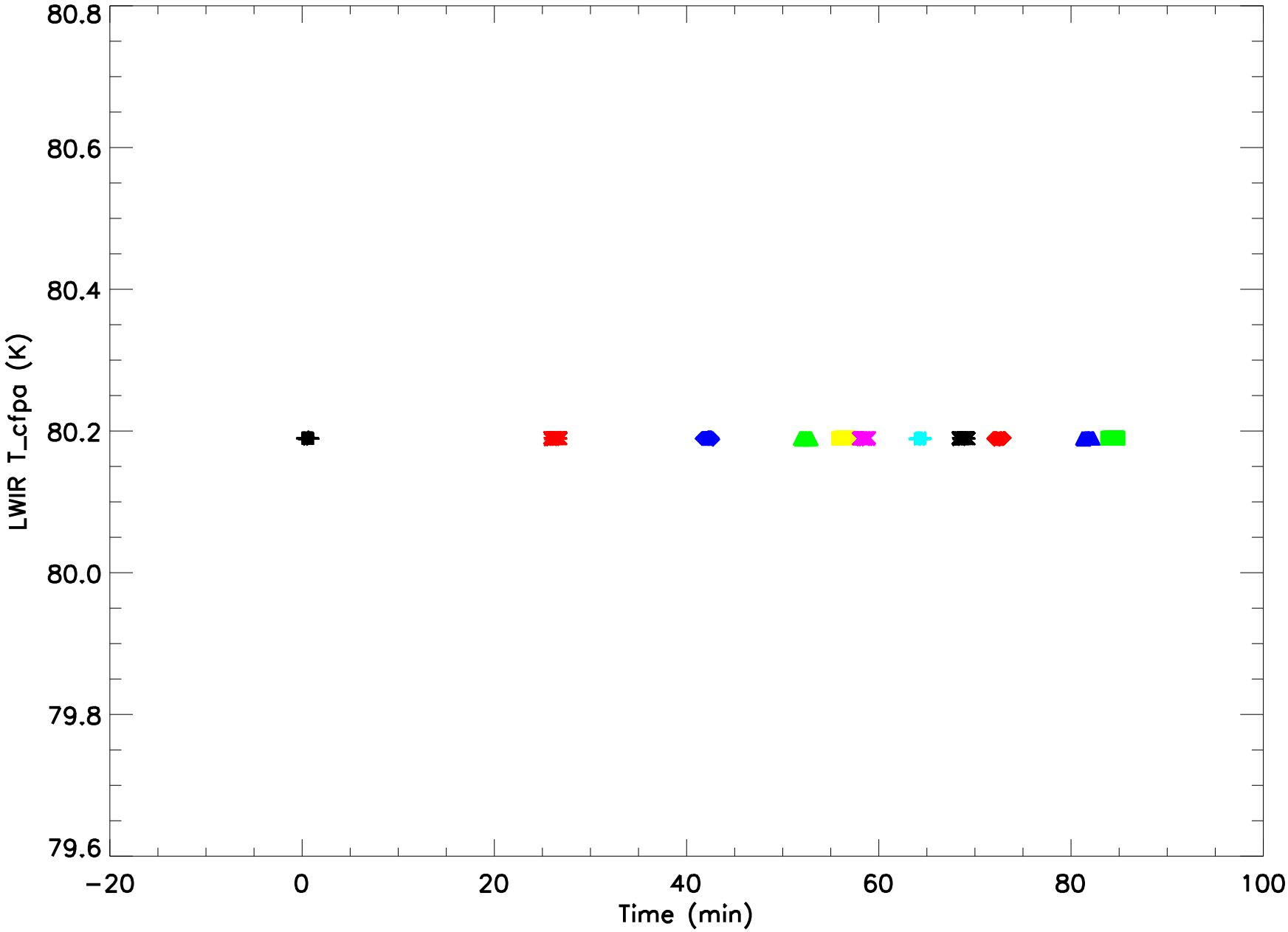

SMWIR T_cfpa vs Time
80.4
80.2
80.0
79.8
79.6
79.4
79.2
SMWIR T_cfpa (K)
−20
0
20
40
60
80
100
Time (min)

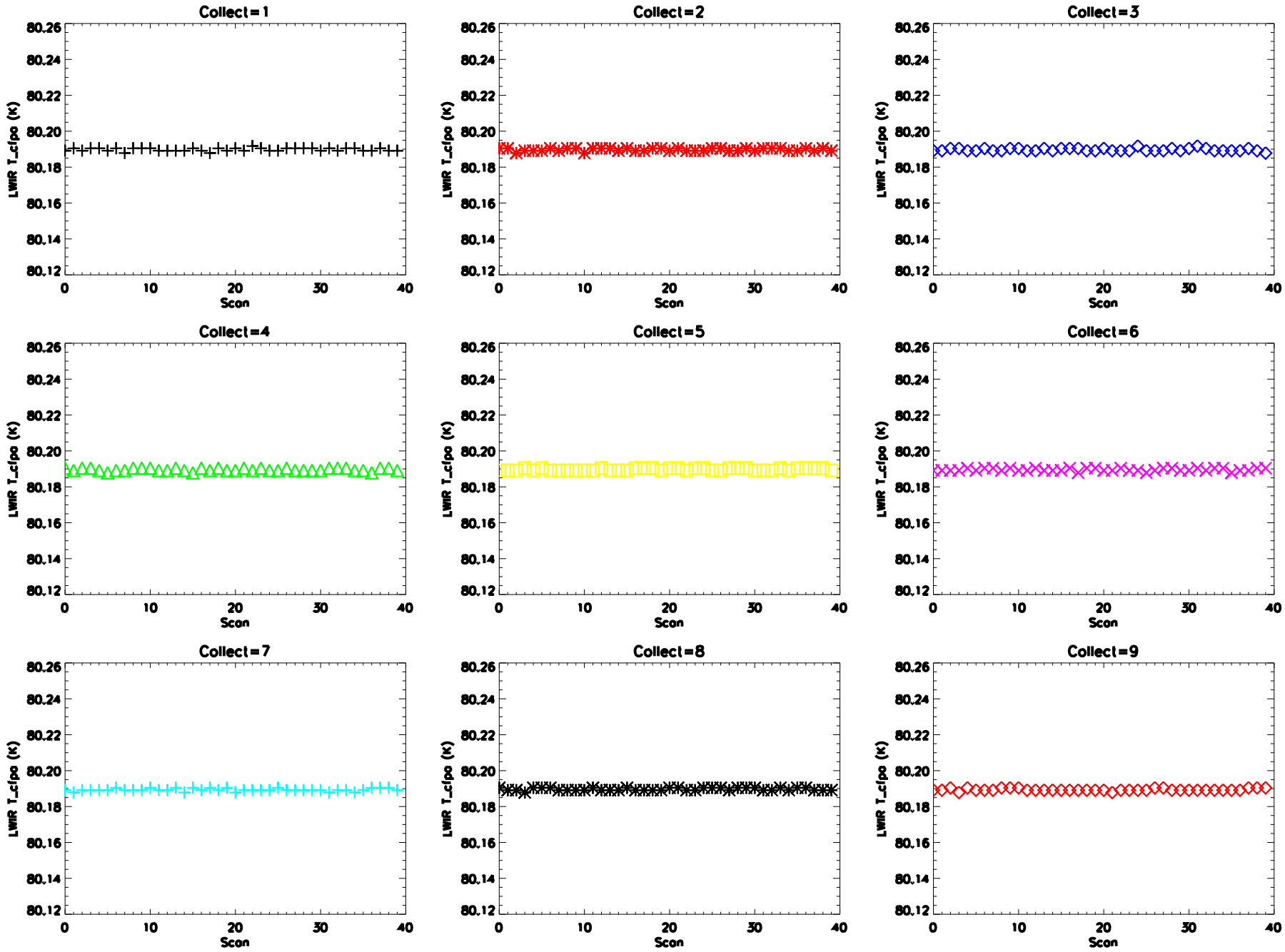

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40

SMWIR T_cfpa vs Scan

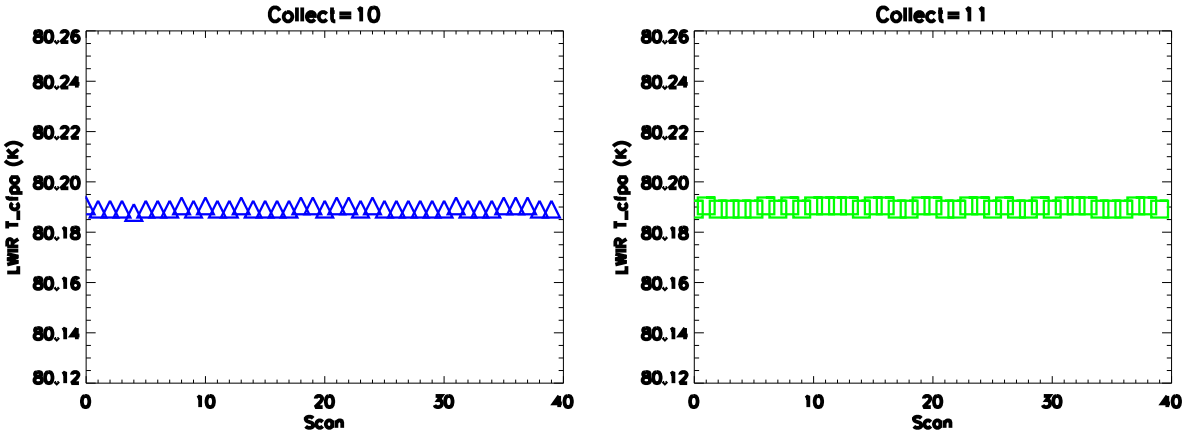


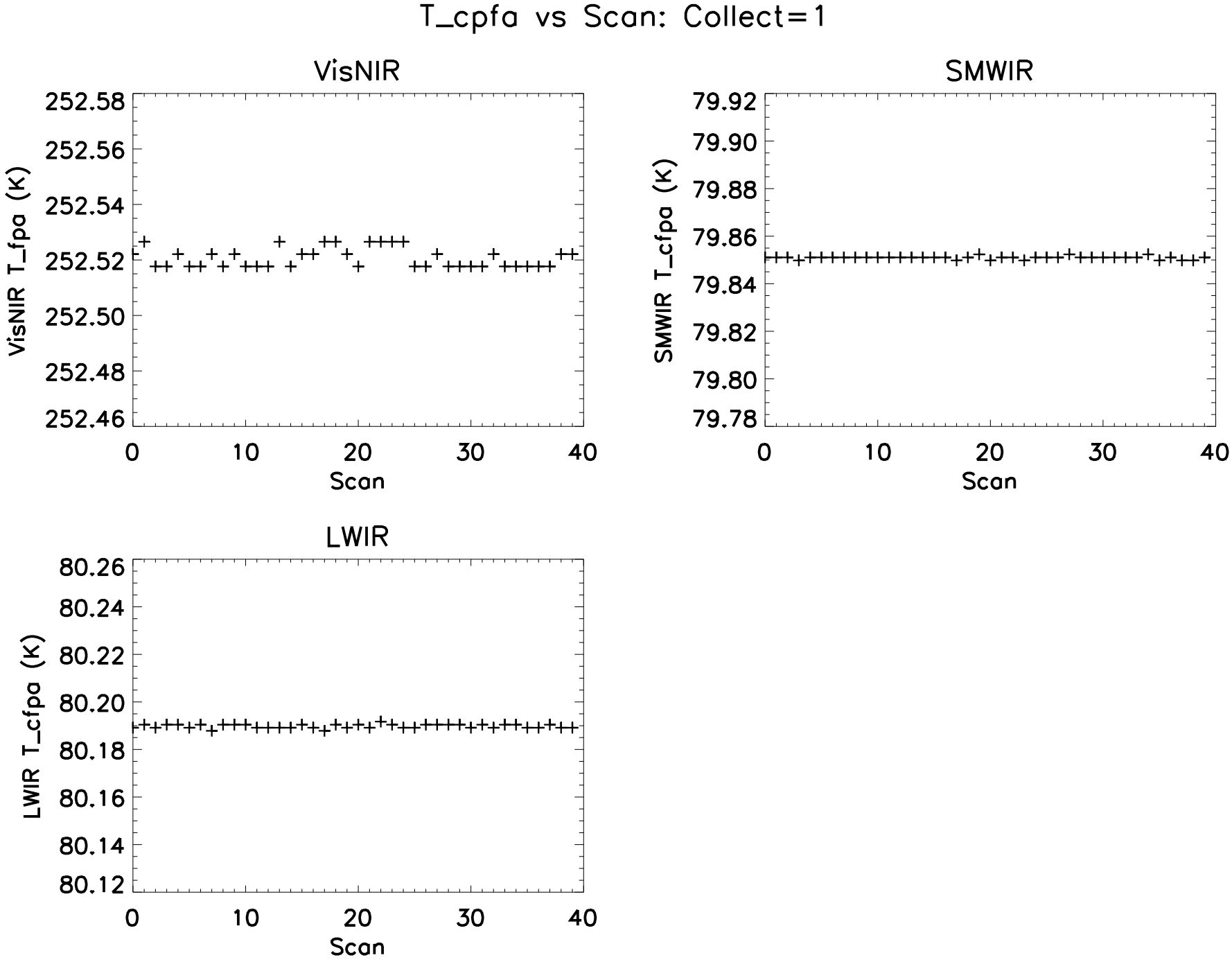

LWIR T_cfpa vs Scan and Collect
LWIR T_cfpa (K)
80.8
80.6
80.4
80.2
80.0
79.8
79.6
0
100
200
300
400
500
Collect*scan

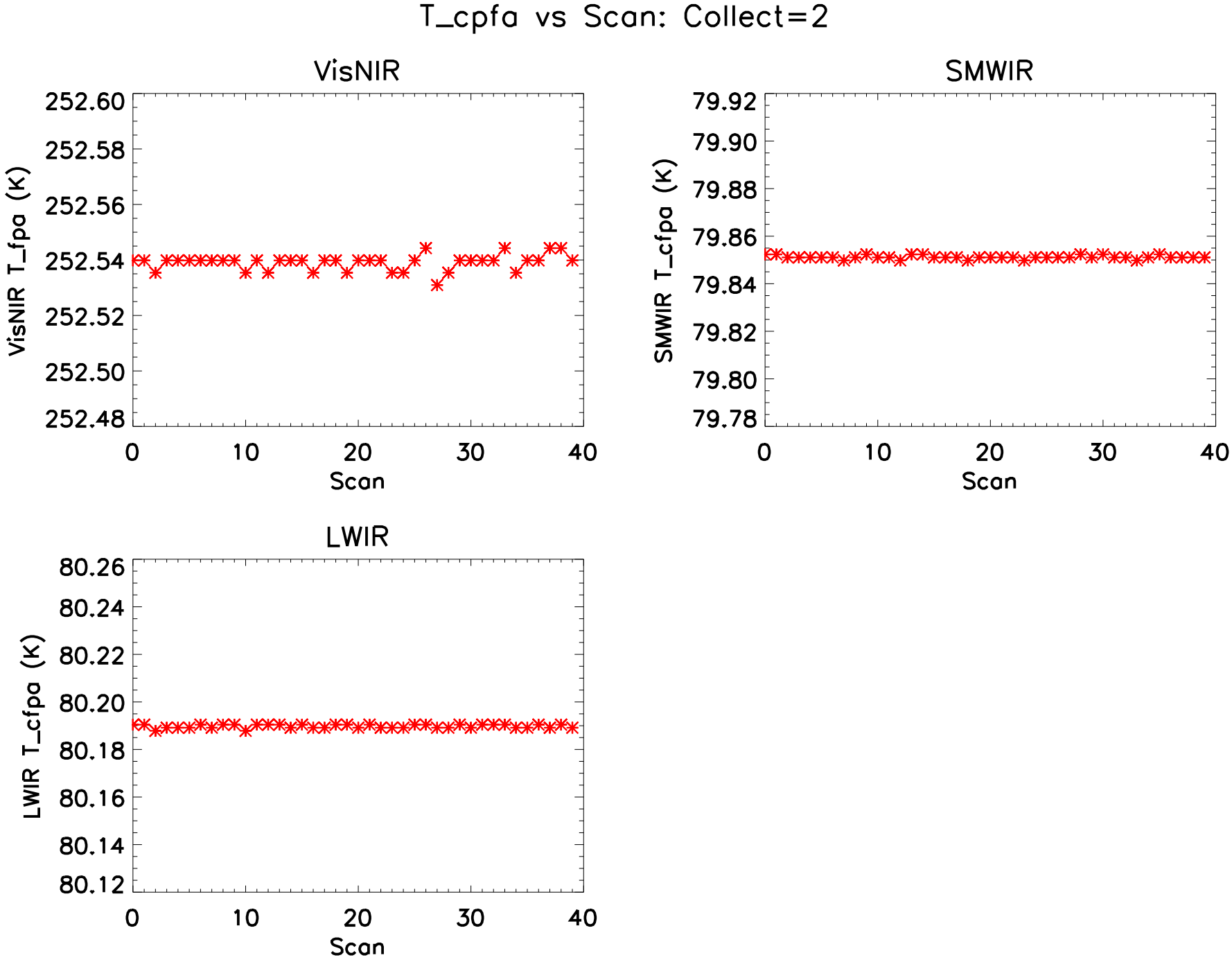

LWIR T_cfpa vs Time
LWIR T_cfpa (K)
80.8
80.6
80.4
80.2
80.0
79.8
79.6
−20
0
20
40
60
80
100
Time (min)

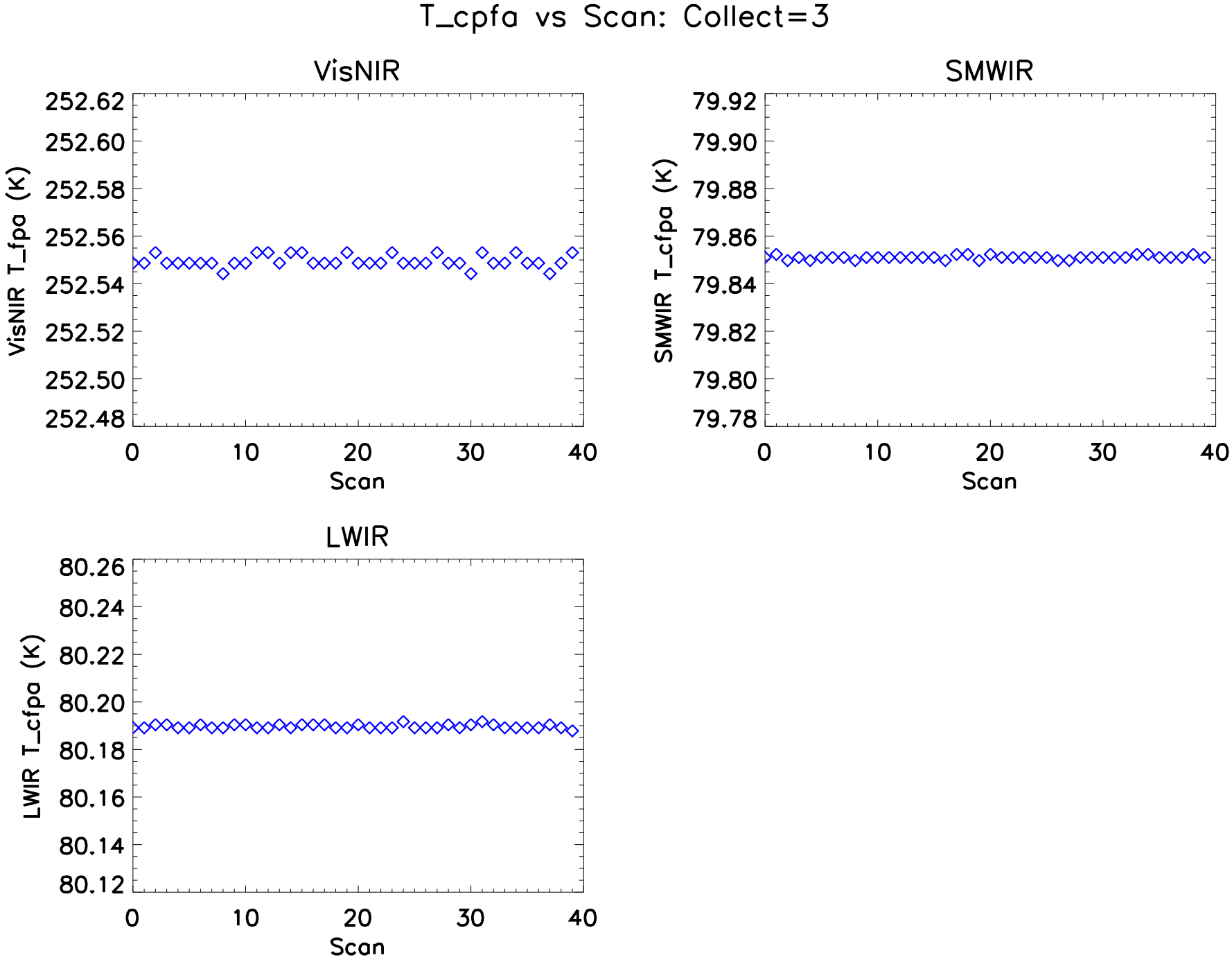

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_cfpa (K)
Scan
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40

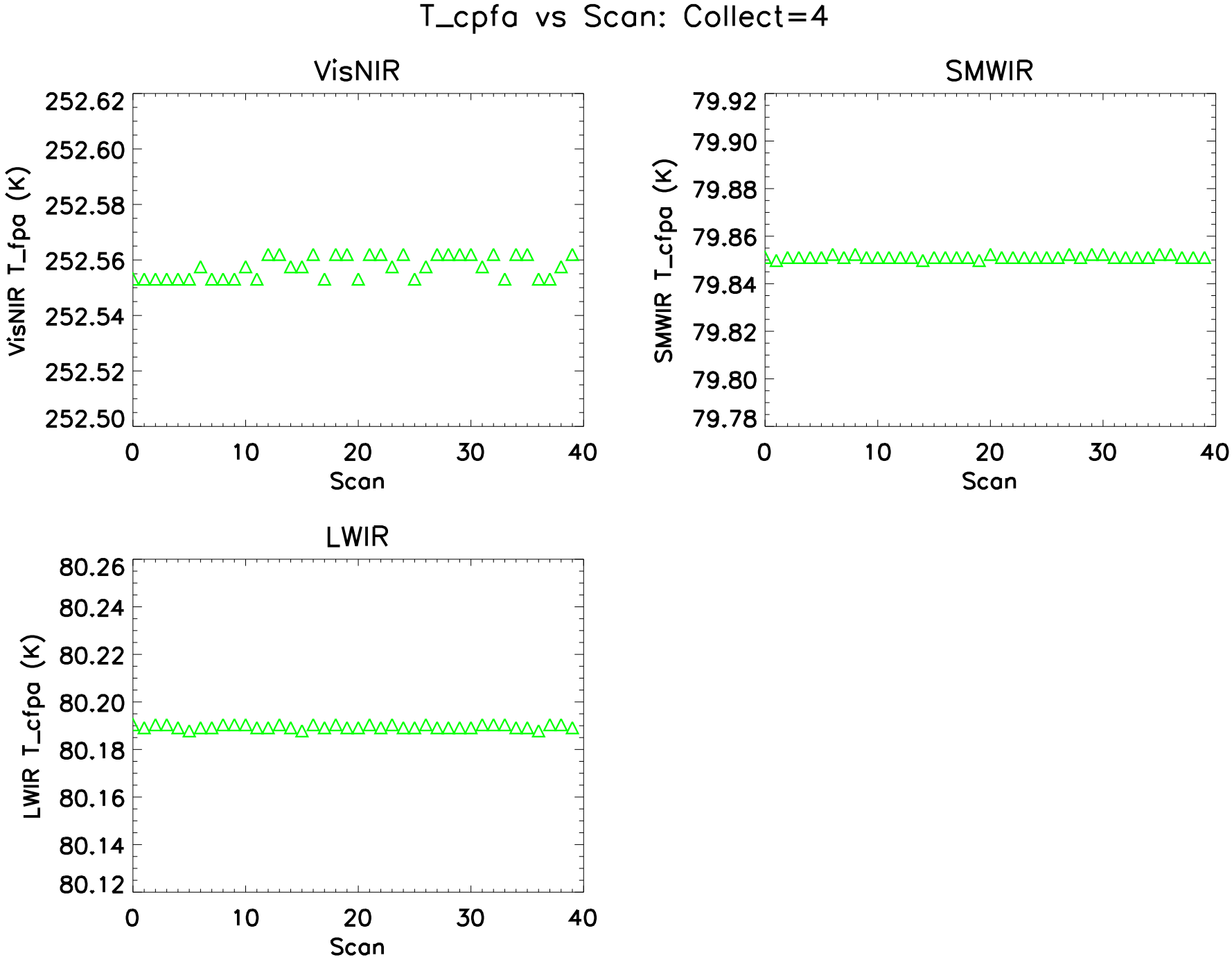
LWIR T_cfpa vs Scan

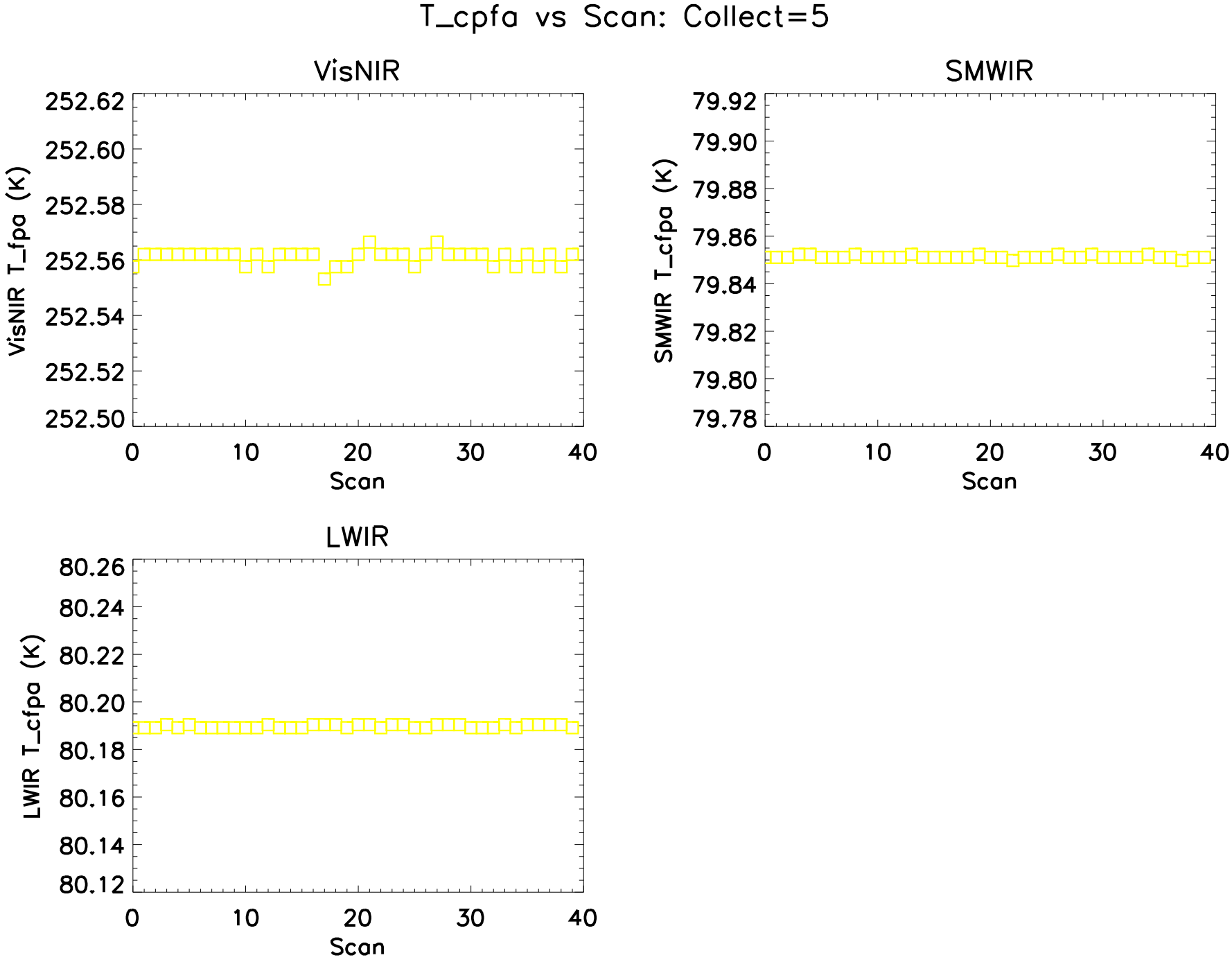


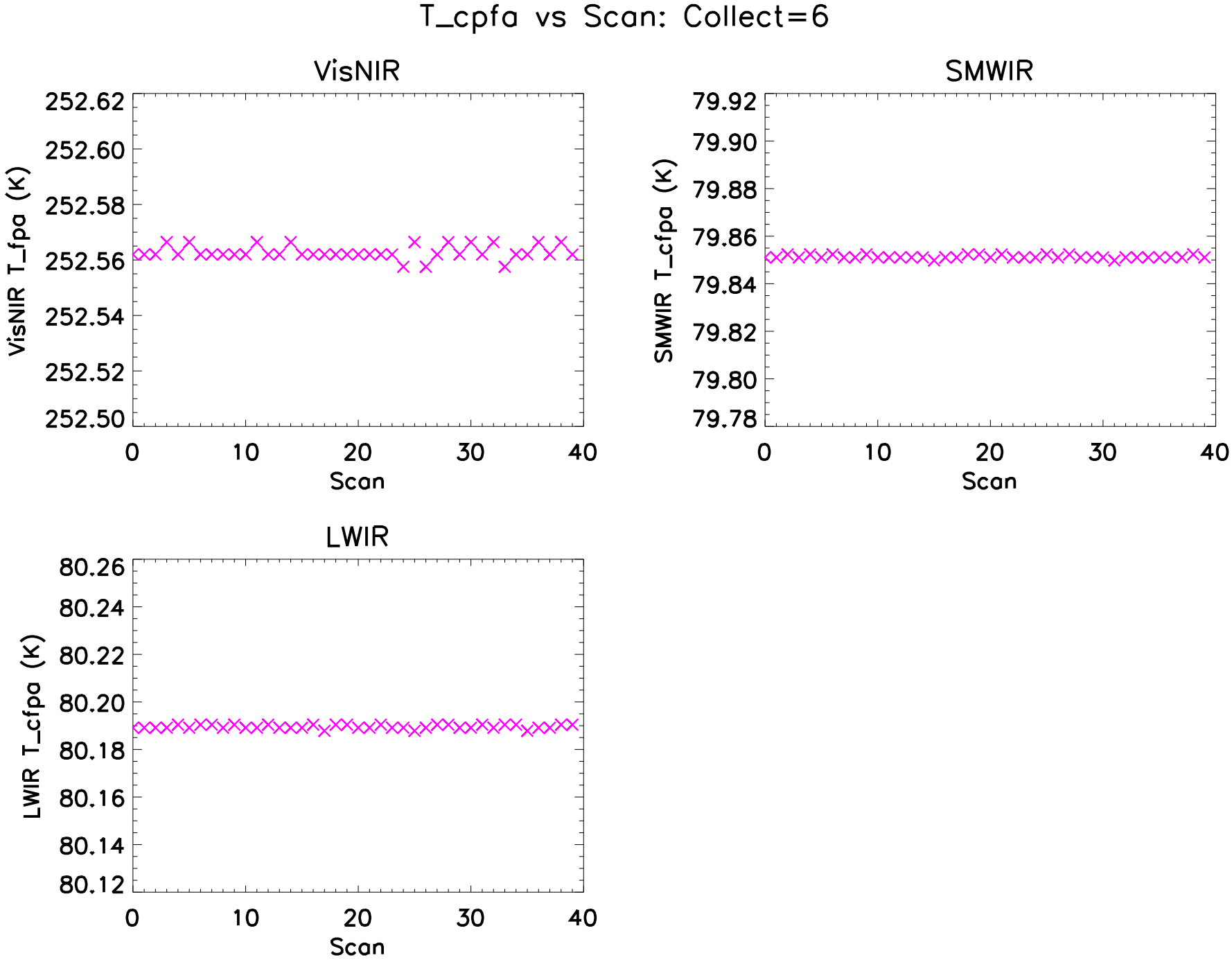

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
252.58
252.56
252.54
252.52
252.50
252.48
252.46
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

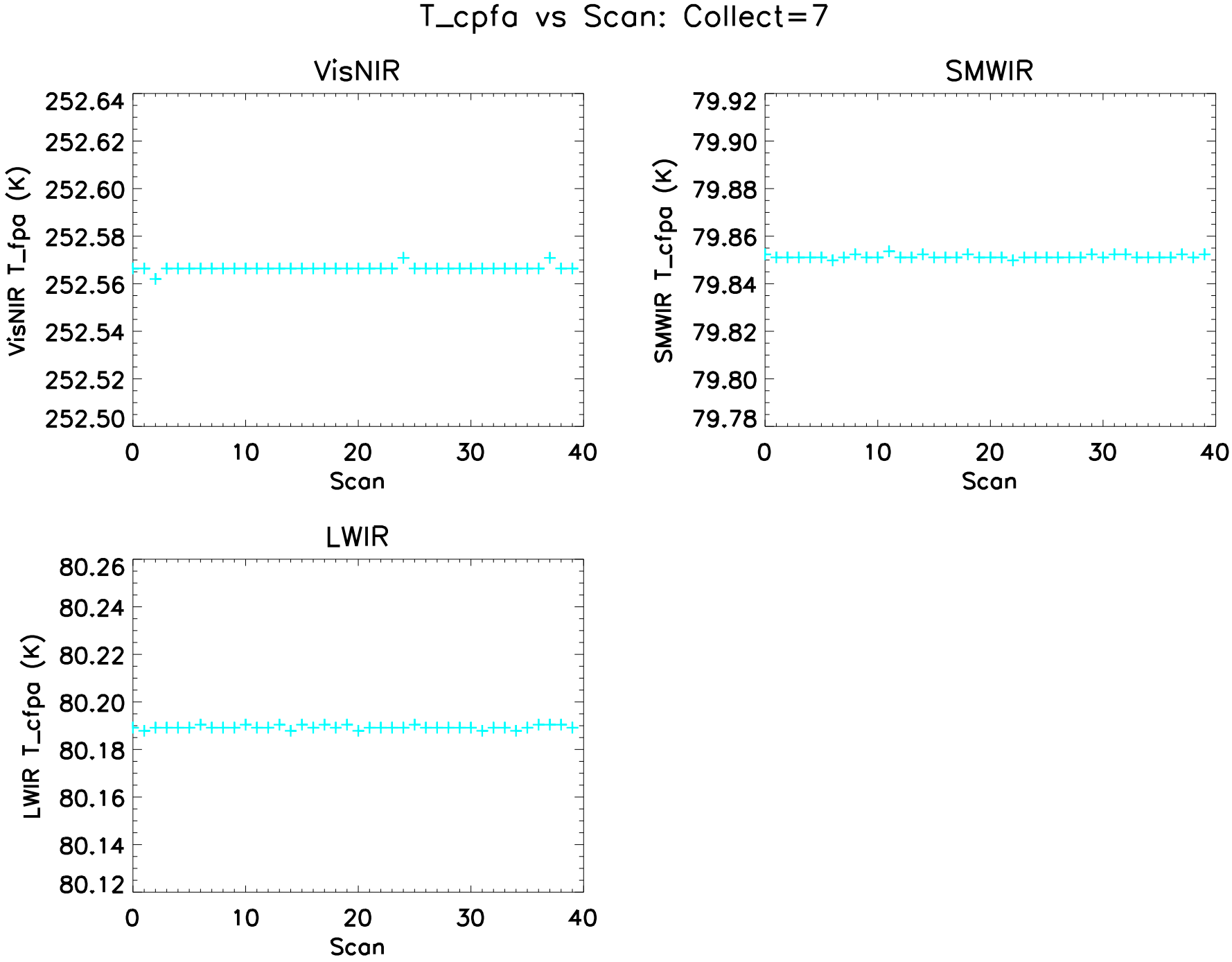

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
252.60
252.58
252.56
252.54
252.52
252.50
252.48
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

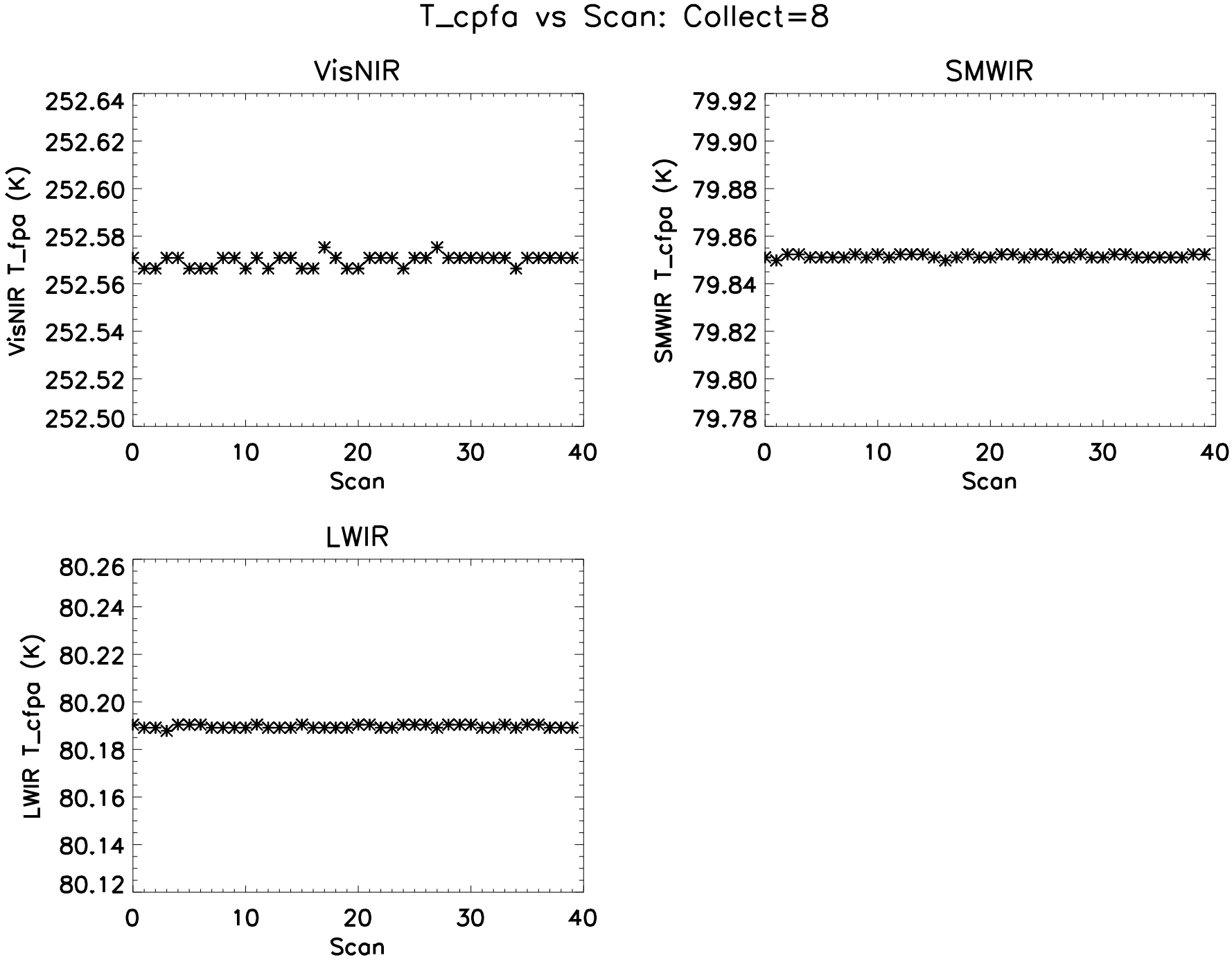

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
252.62
252.60
252.58
252.56
252.54
252.52
252.50
252.48
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

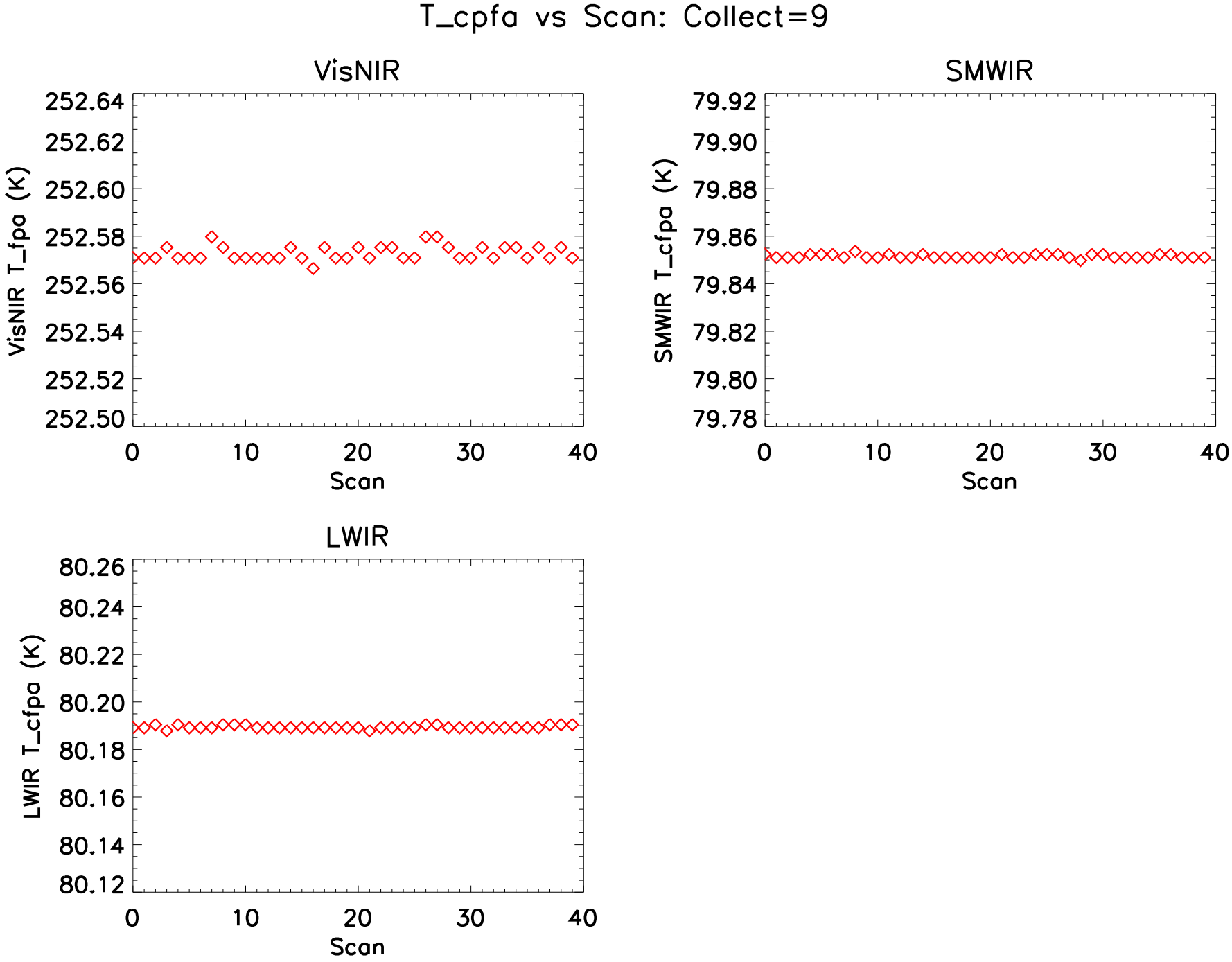

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
252.62
252.60
252.58
252.56
252.54
252.52
252.50
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

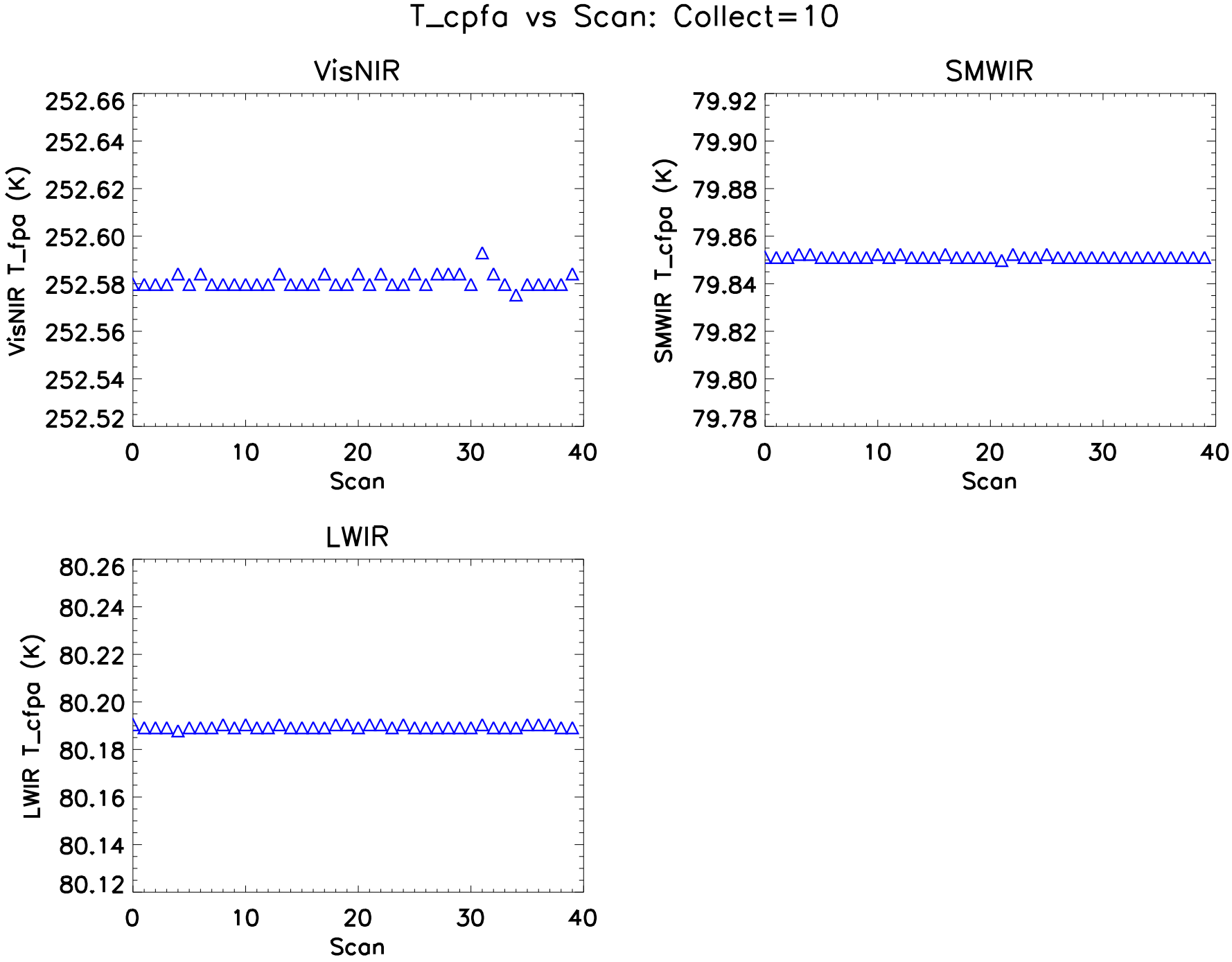

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
252.62
252.60
252.58
252.56
252.54
252.52
252.50
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

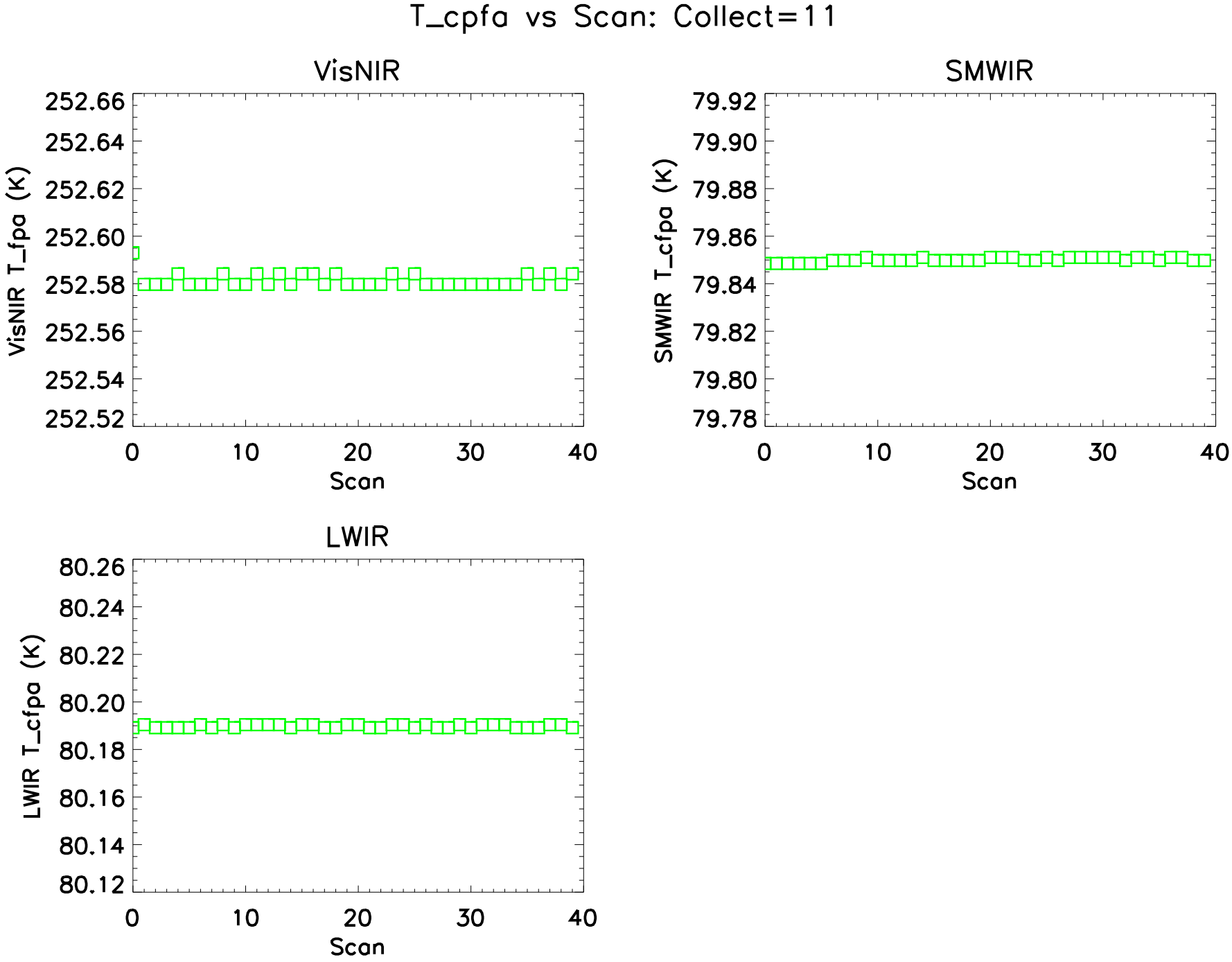

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
252.62
252.60
252.58
252.56
252.54
252.52
252.50
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

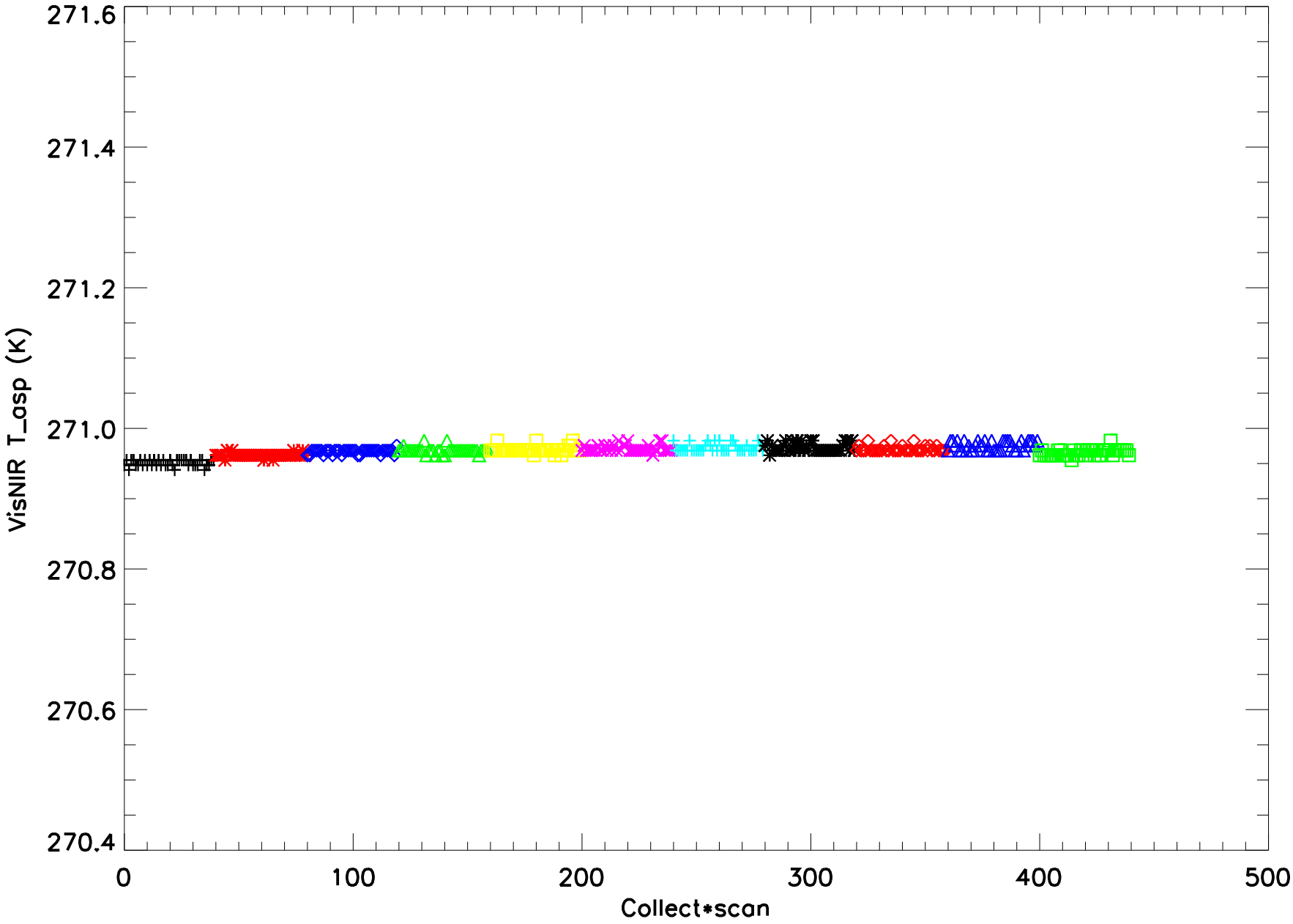

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
252.64
252.62
252.60
252.58
252.56
252.54
252.52
252.50
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

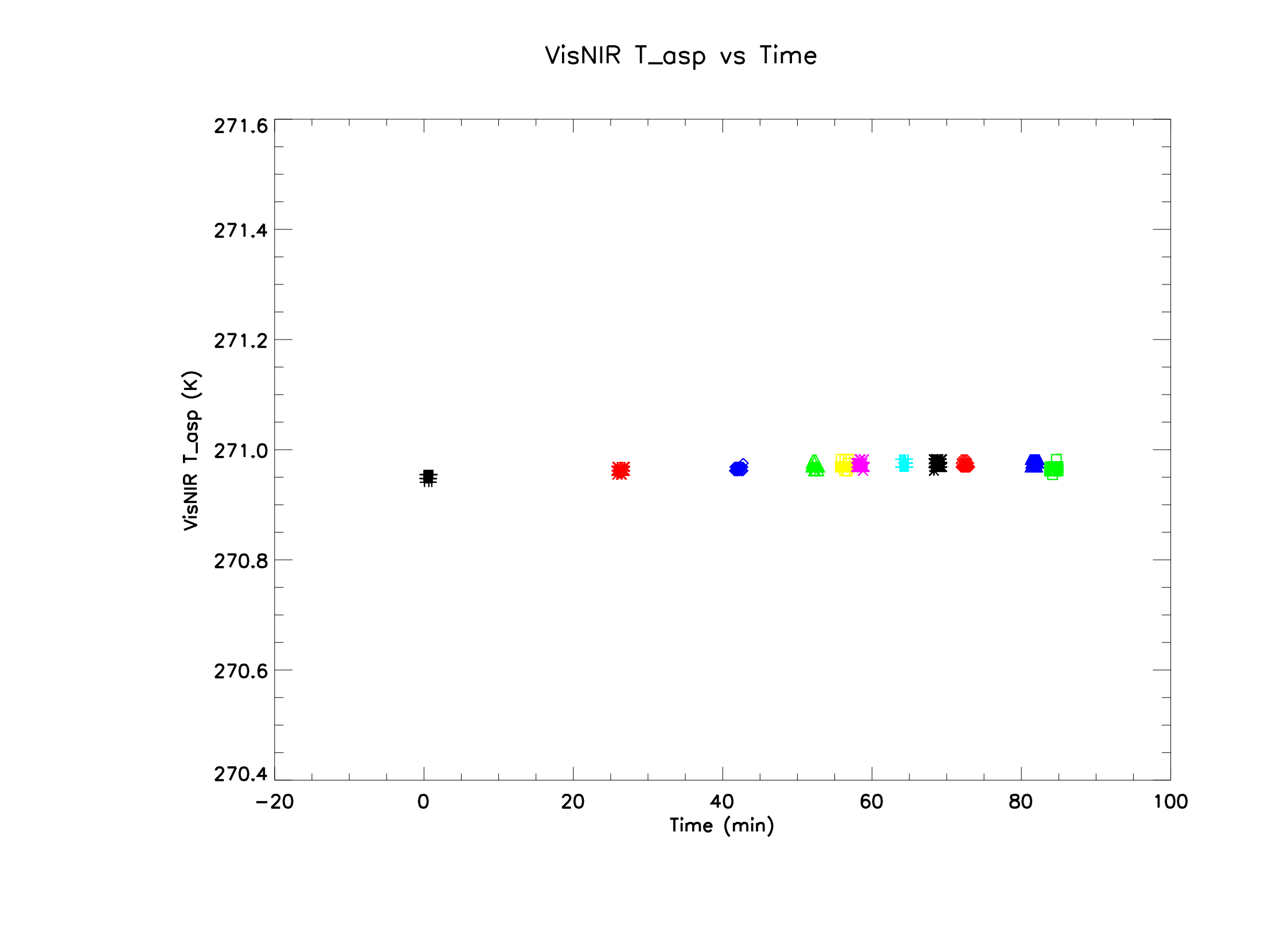

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
252.64
252.62
252.60
252.58
252.56
252.54
252.52
252.50
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

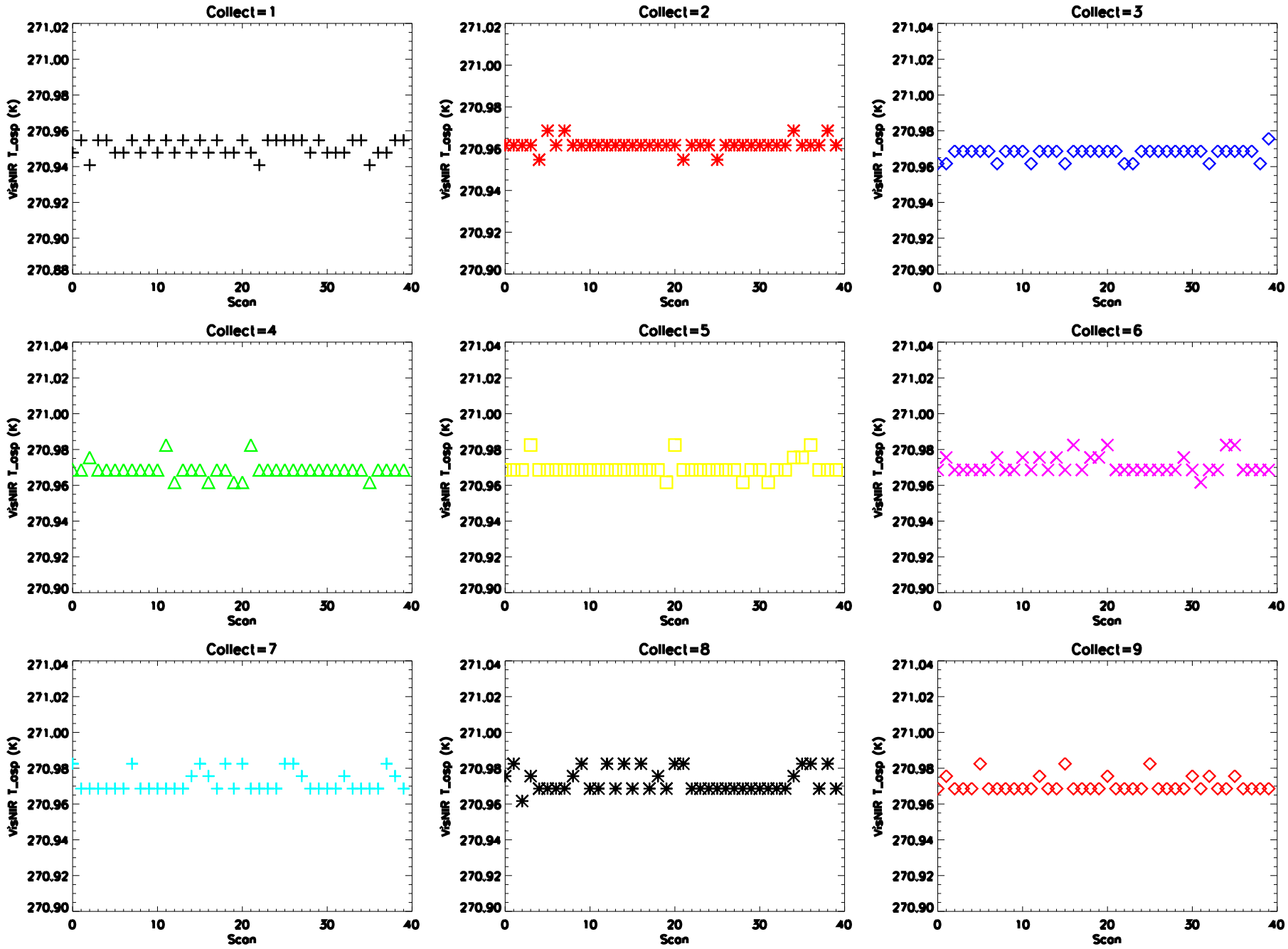

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
252.64
252.62
252.60
252.58
252.56
252.54
252.52
252.50
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan


T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
252.66
252.64
252.62
252.60
252.58
252.56
252.54
252.52
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

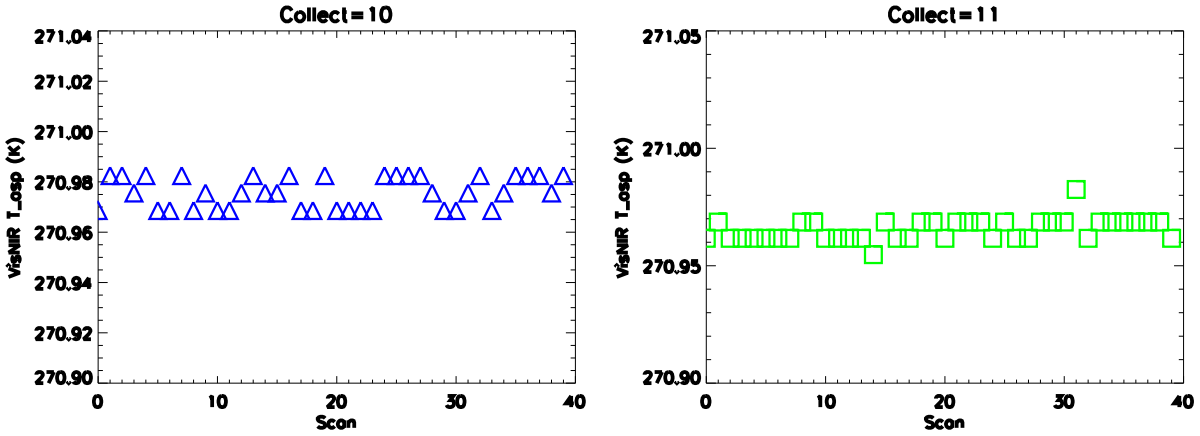

T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
252.66
252.64
252.62
252.60
252.58
252.56
252.54
252.52
0
10
20
30
40
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
10
20
30
40
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
10
20
30
40
Scan

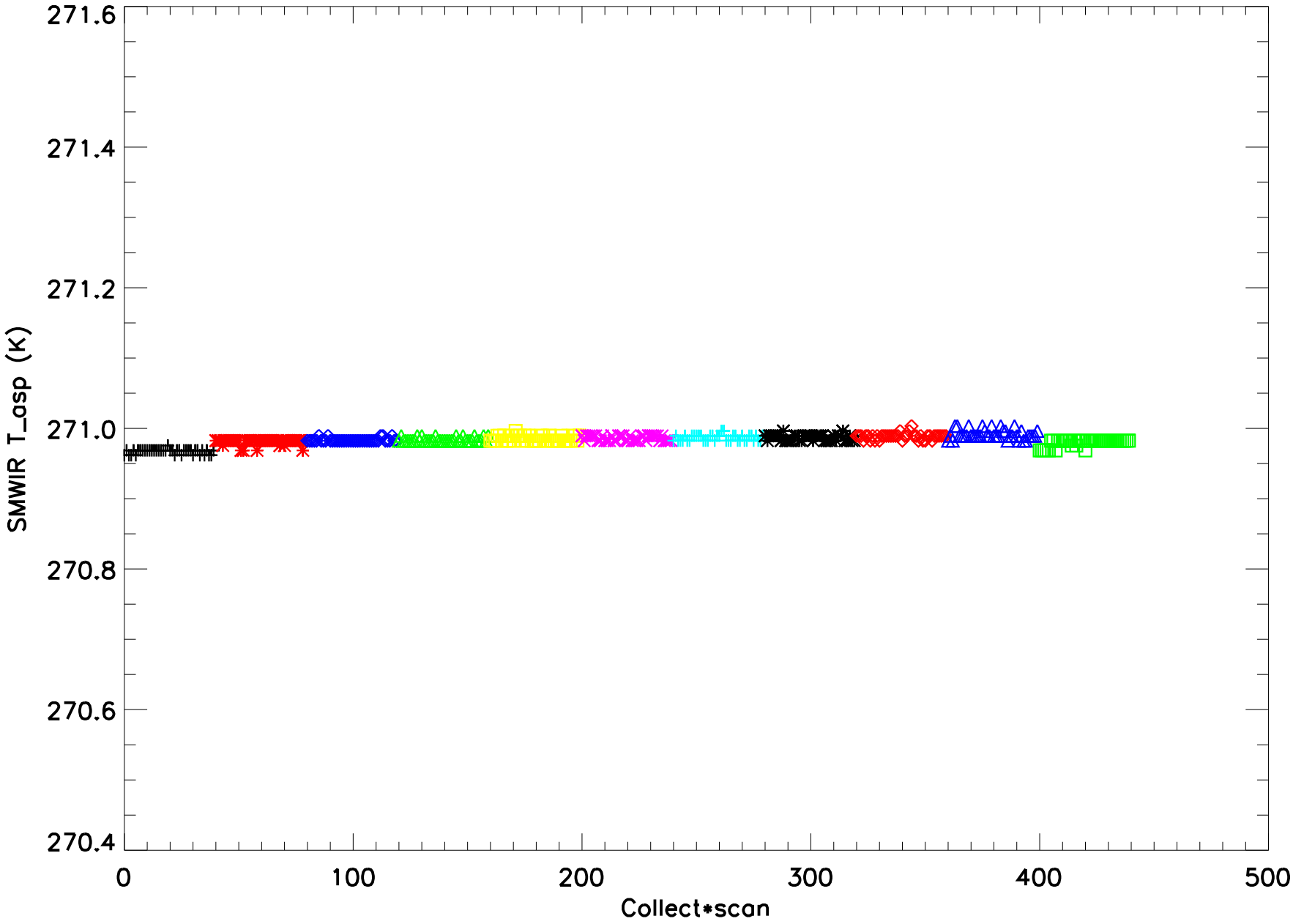

VisNIR T_asp vs Scan and Collect
VisNIR T_asp (K)
271.6
271.4
271.2
271.0
270.8
270.6
270.4
0
100
200
300
400
500
Collect*scan

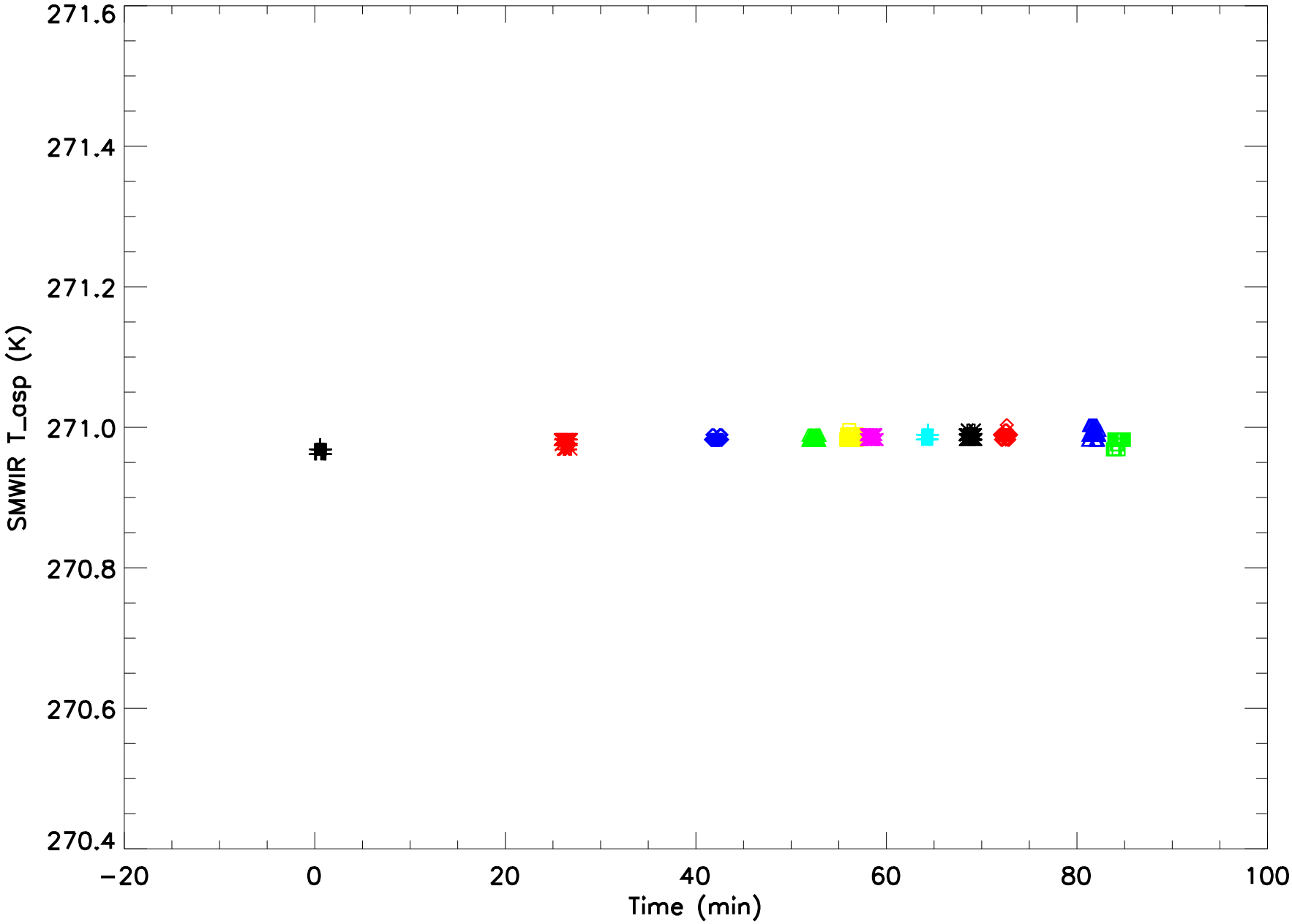

VisNIR T_asp vs Time
VisNIR T_asp (K)
271.6
271.4
271.2
271.0
270.8
270.6
270.4
−20
0
20
40
60
80
100
Time (min)

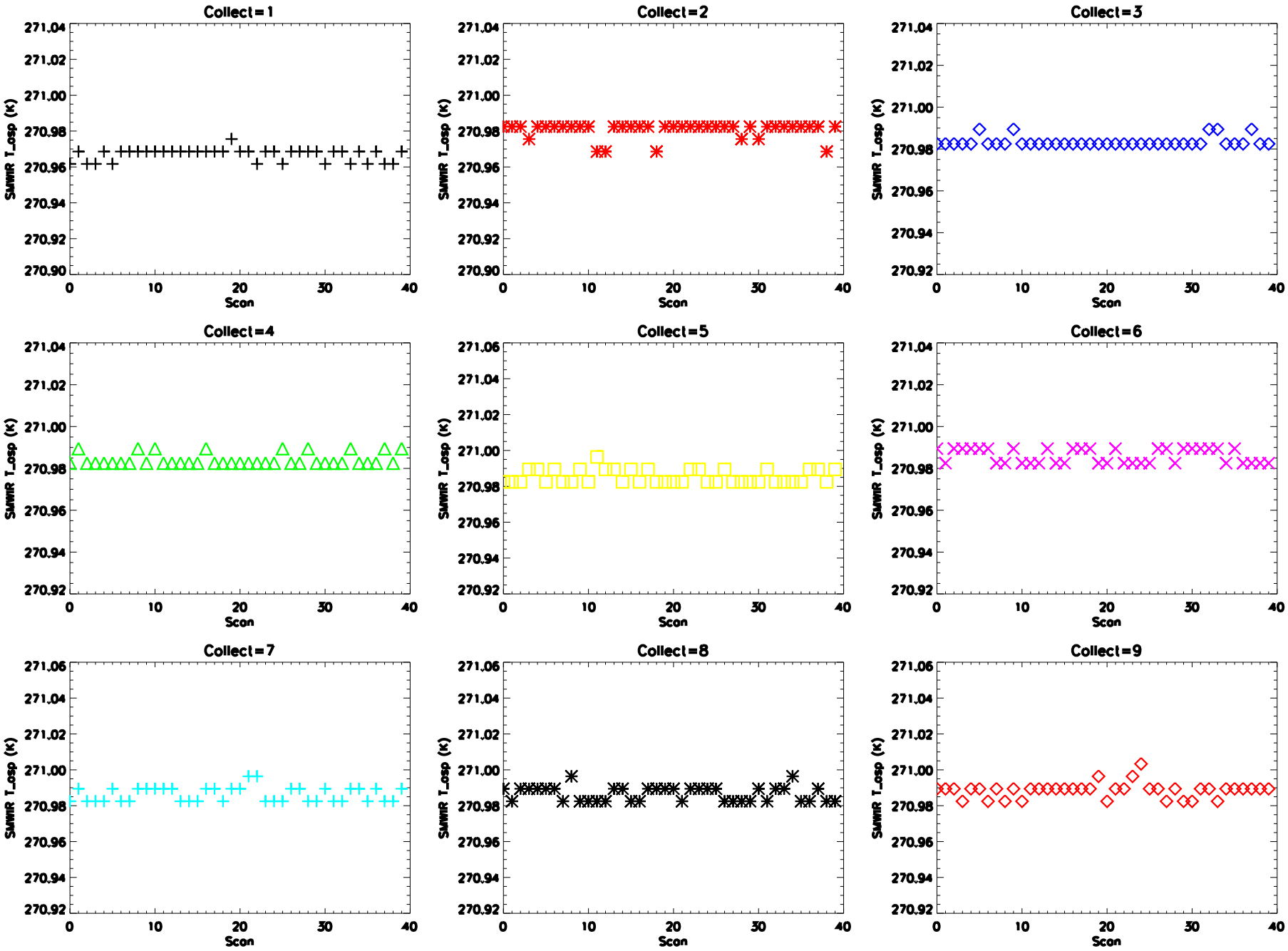

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_osp (K)
Scan

VisNIR T_asp vs Scan

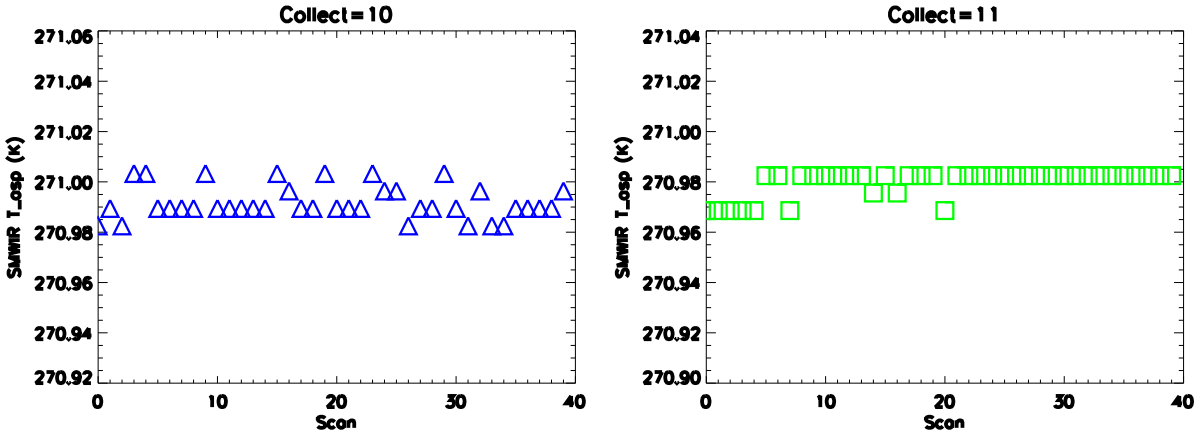


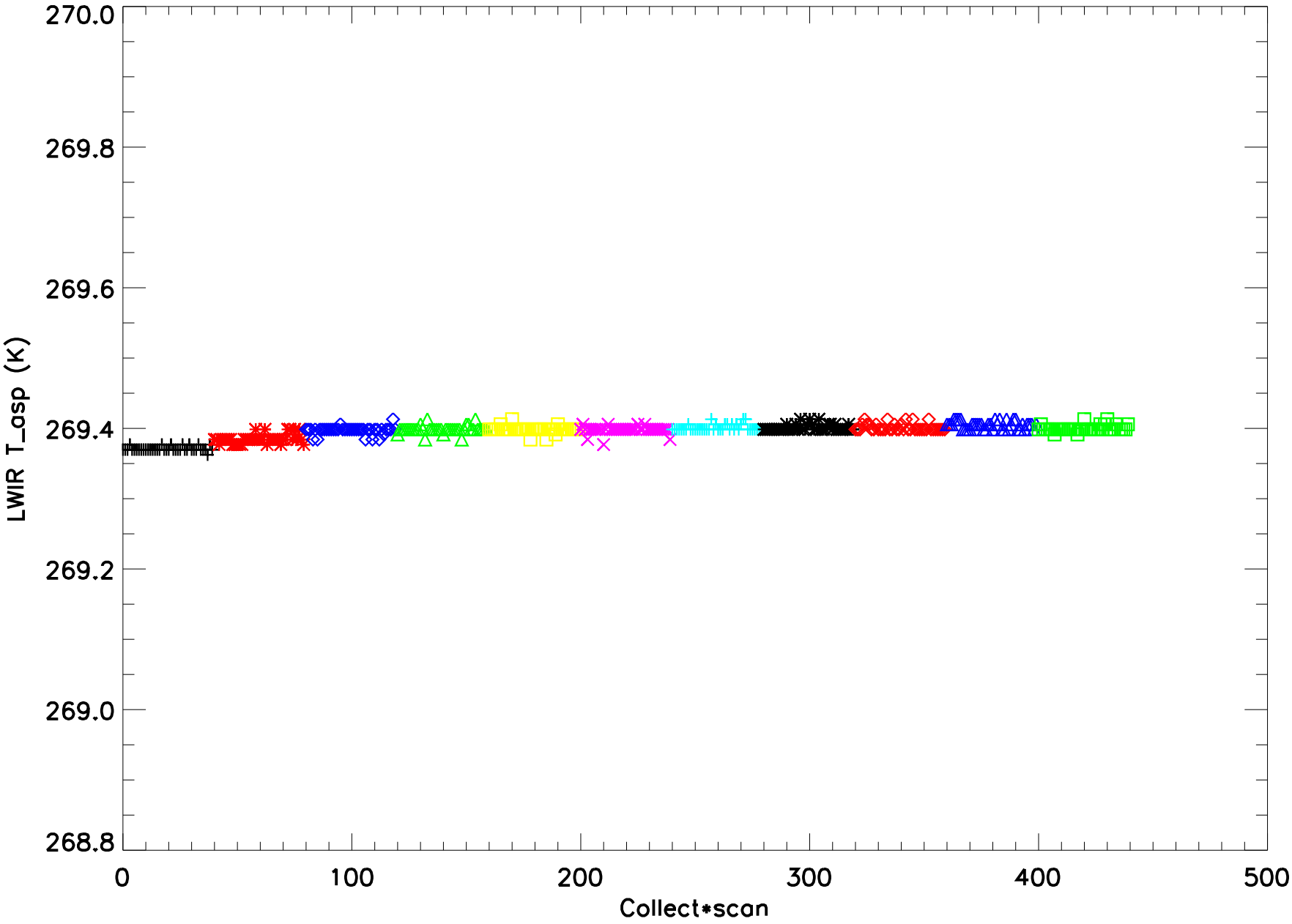

SMWIR T_asp vs Scan and Collect
271.6
271.4
271.2
271.0
270.8
270.6
270.4
SMWIR T_asp (K)
0
100
200
300
400
500
Collect*scan

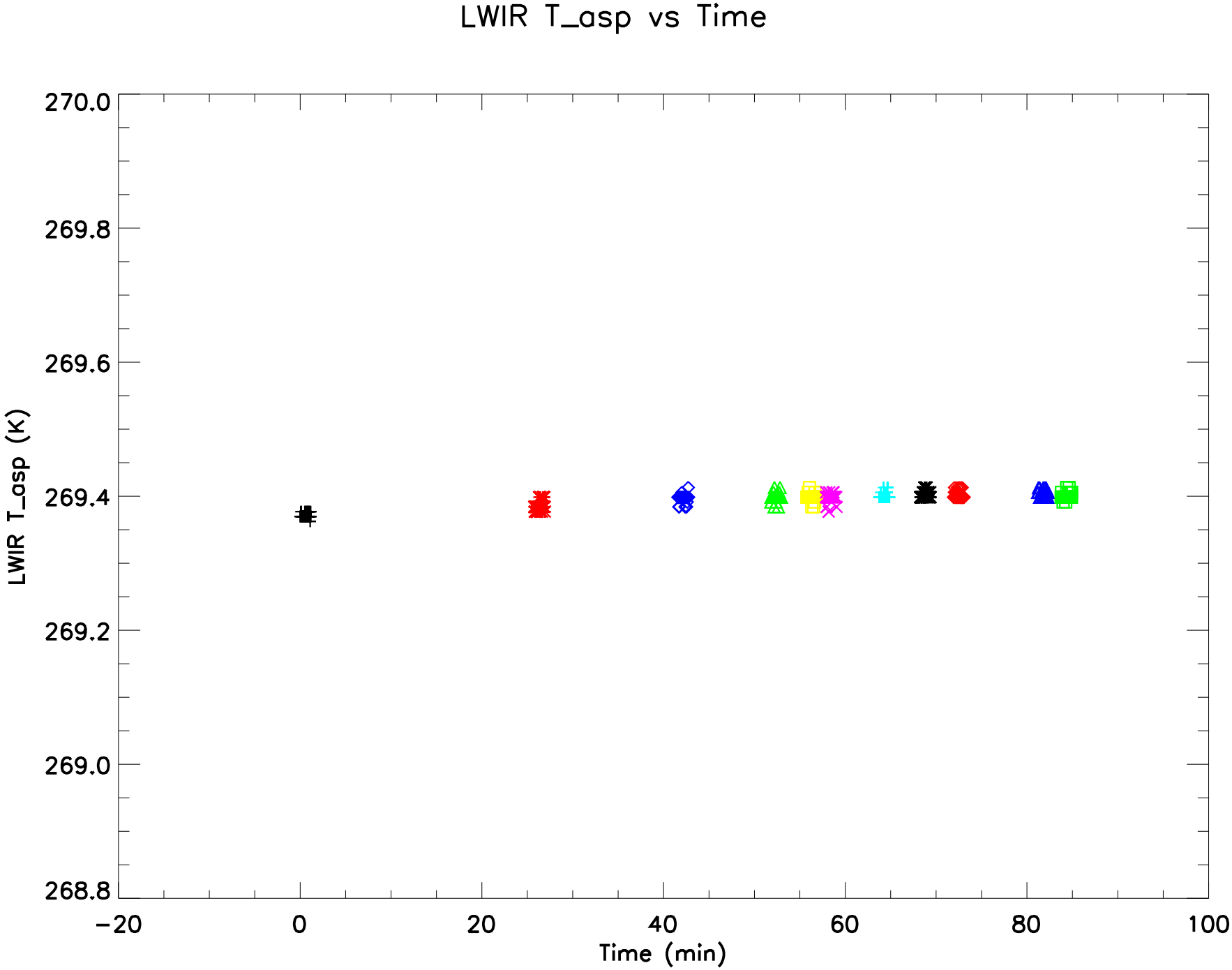

SMWIR T_asp vs Time
SMWIR T_asp (K)
271.6
271.4
271.2
271.0
270.8
270.6
270.4
−20
0
20
40
60
80
100
Time (min)

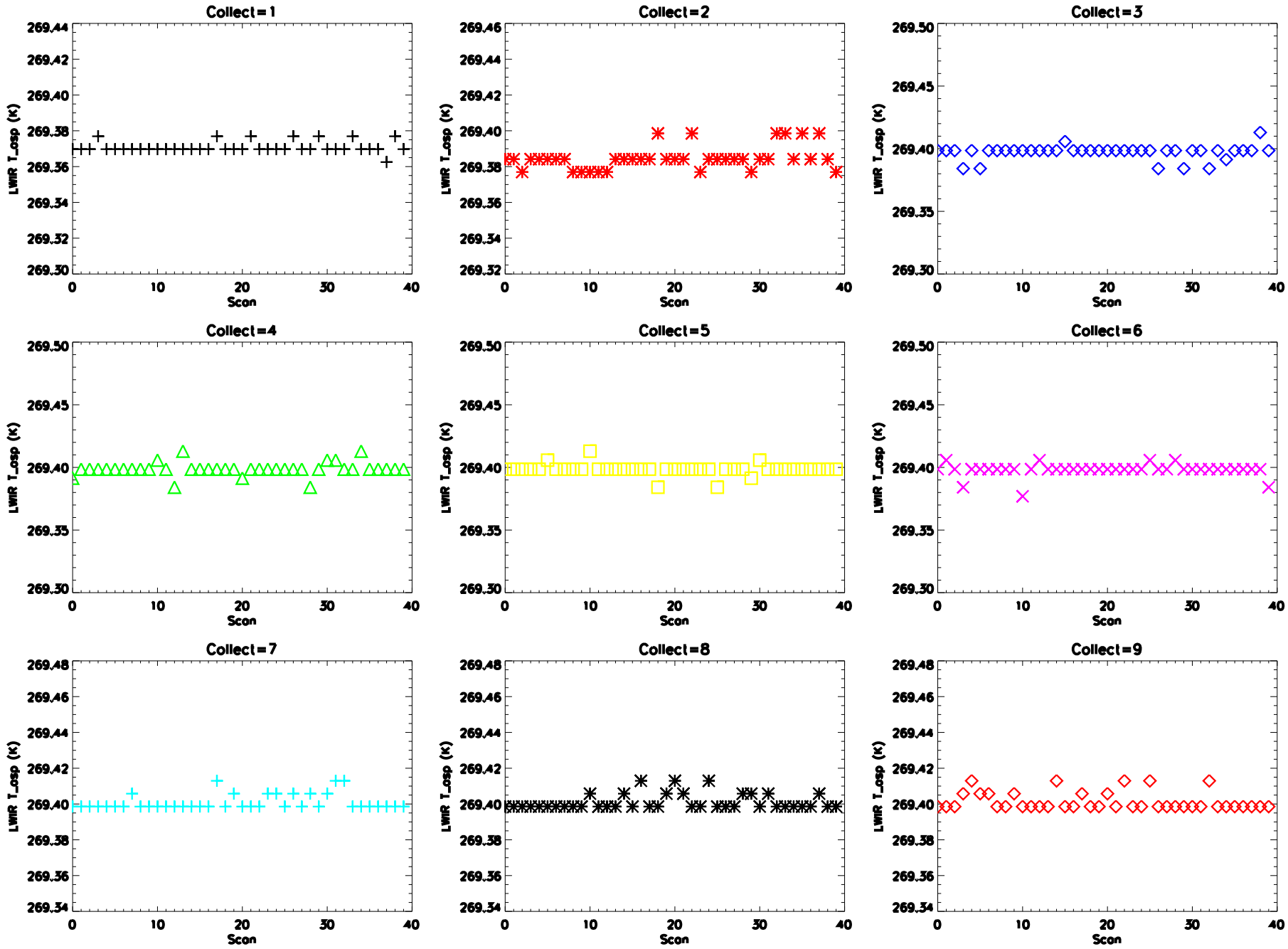

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SNWNR T_osp (K)
Scan

SMWIR T_asp vs Scan

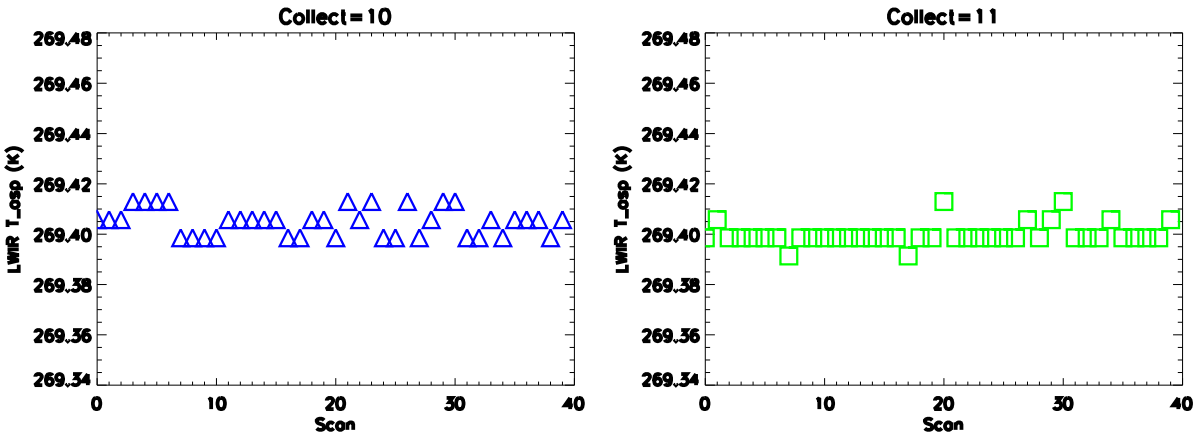


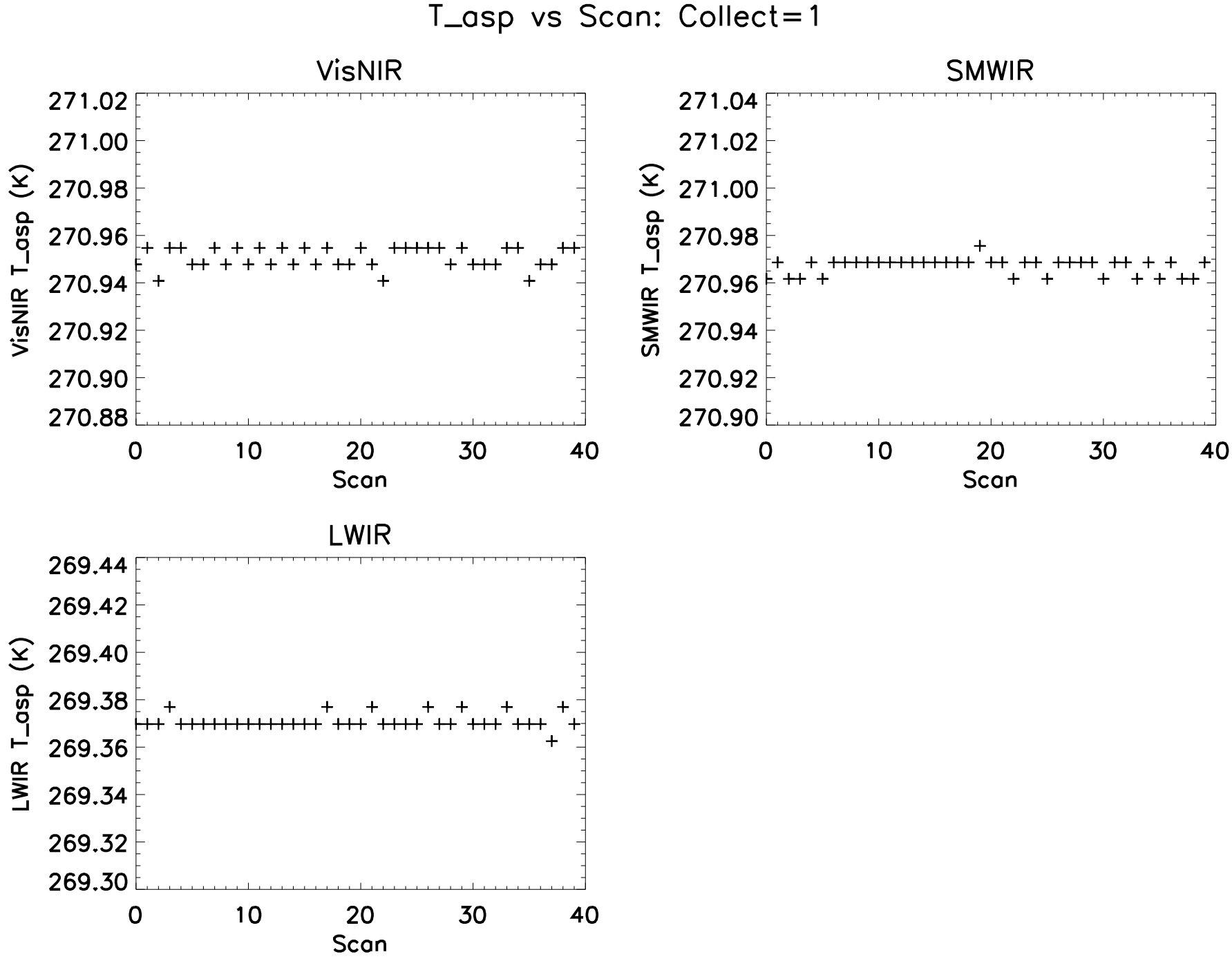

LWIR T_asp vs Scan and Collect
LWIR T_asp (K)
270.0
269.8
269.6
269.4
269.2
269.0
268.8
0
100
200
300
400
500
Collect*scan

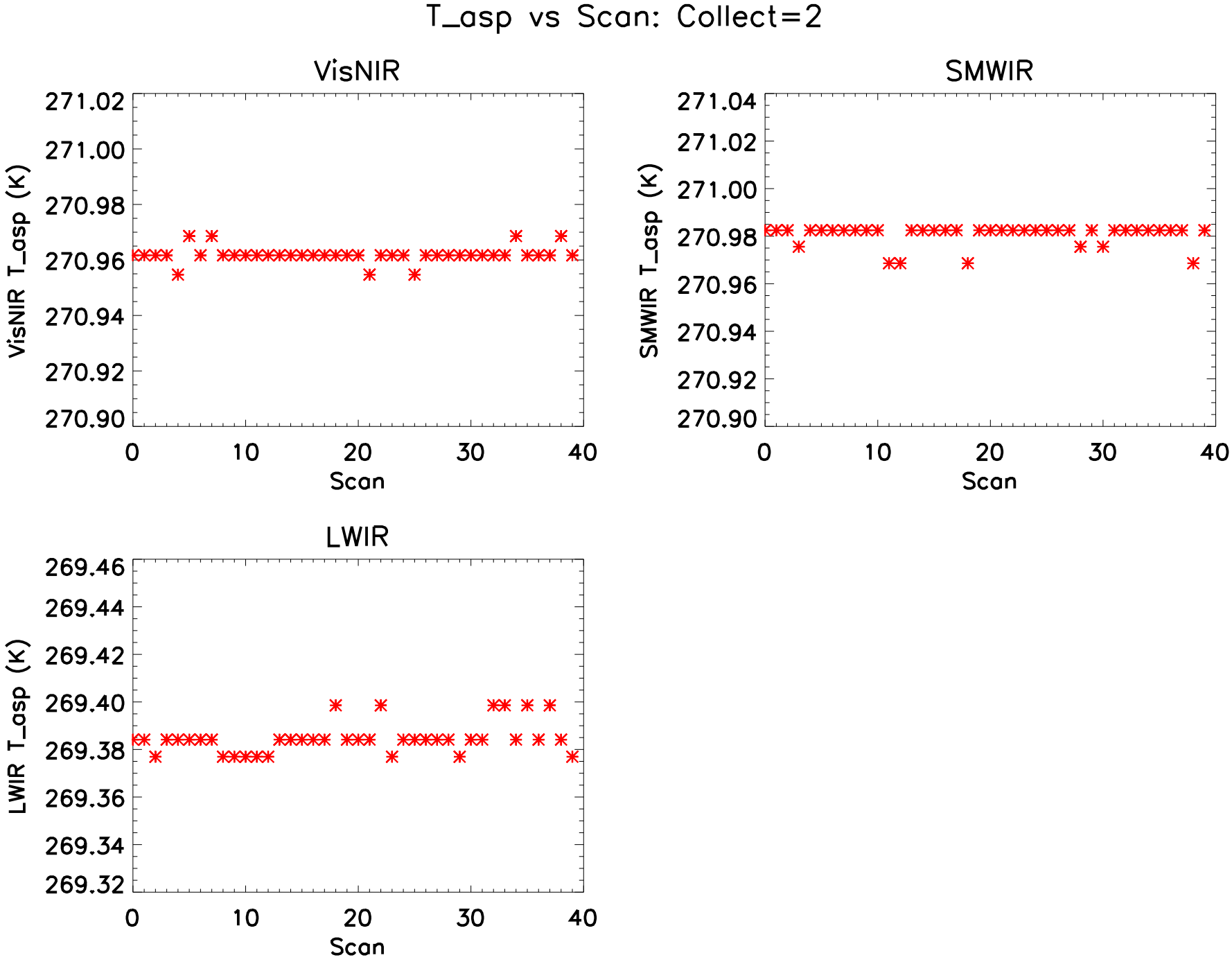

LWIR T_asp vs Time
LWIR T_asp (K)
270.0
269.8
269.6
269.4
269.2
269.0
268.8
−20
0
20
40
60
80
100
Time (min)

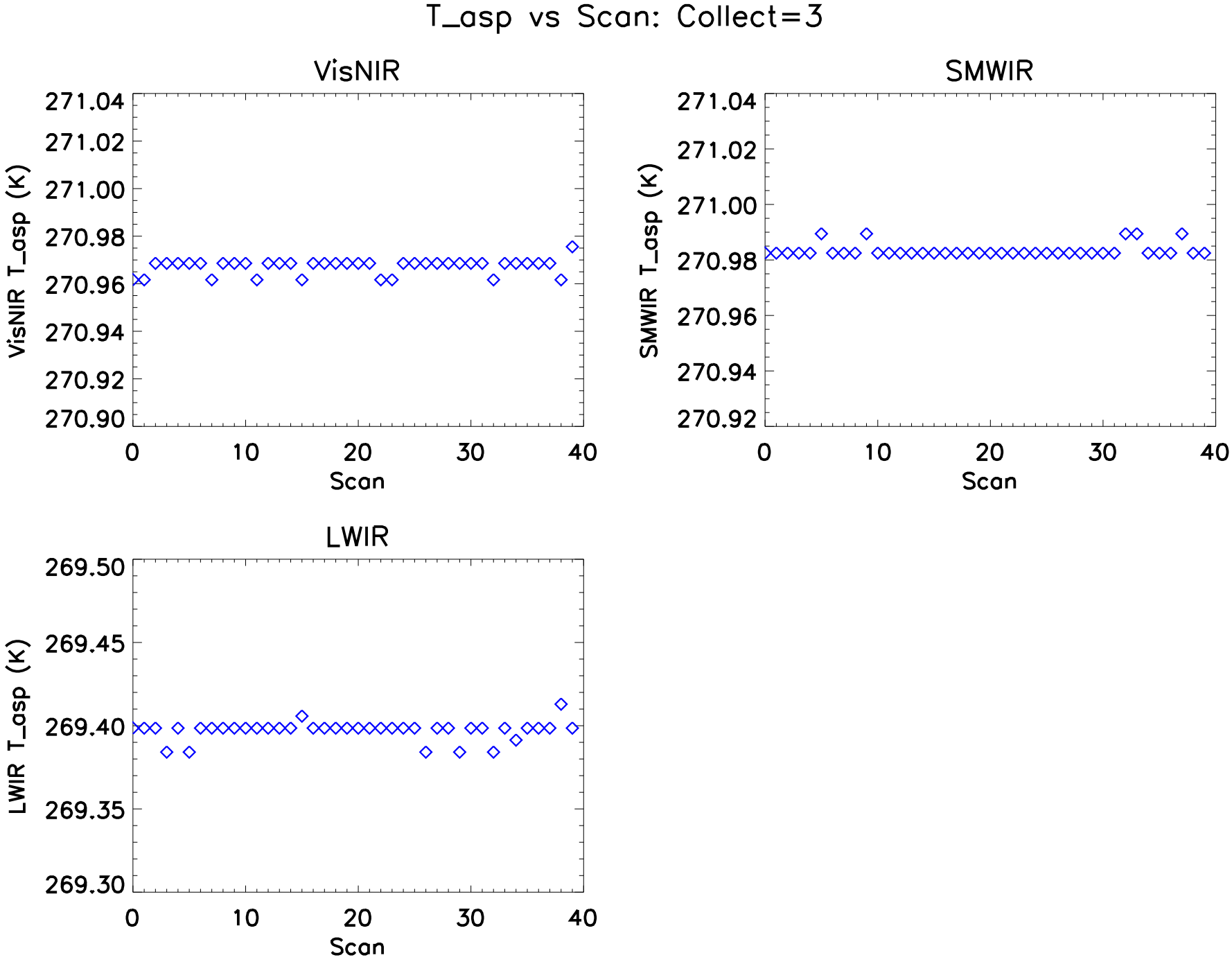

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_osp (K)
Scan

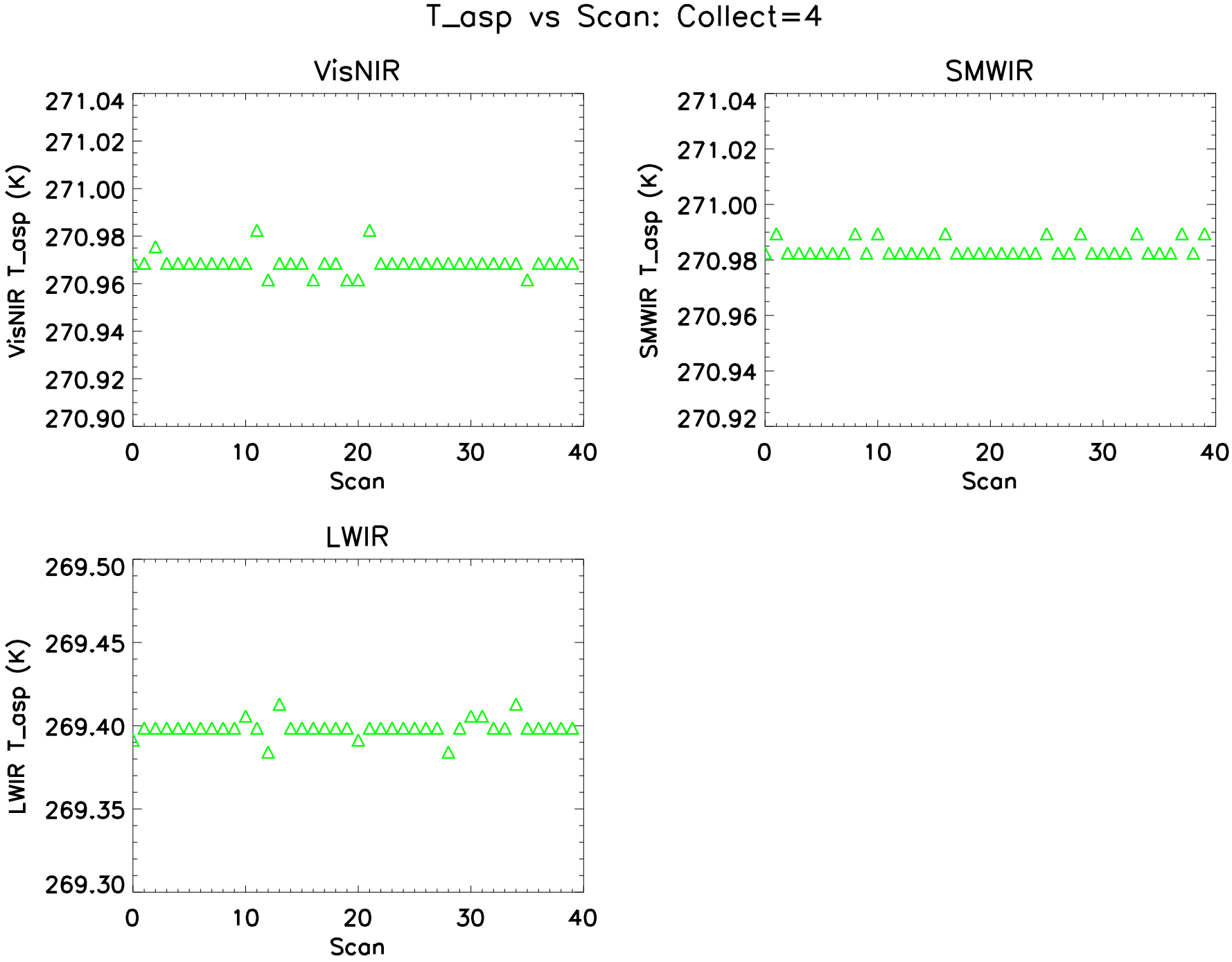
LWIR T_asp vs Scan

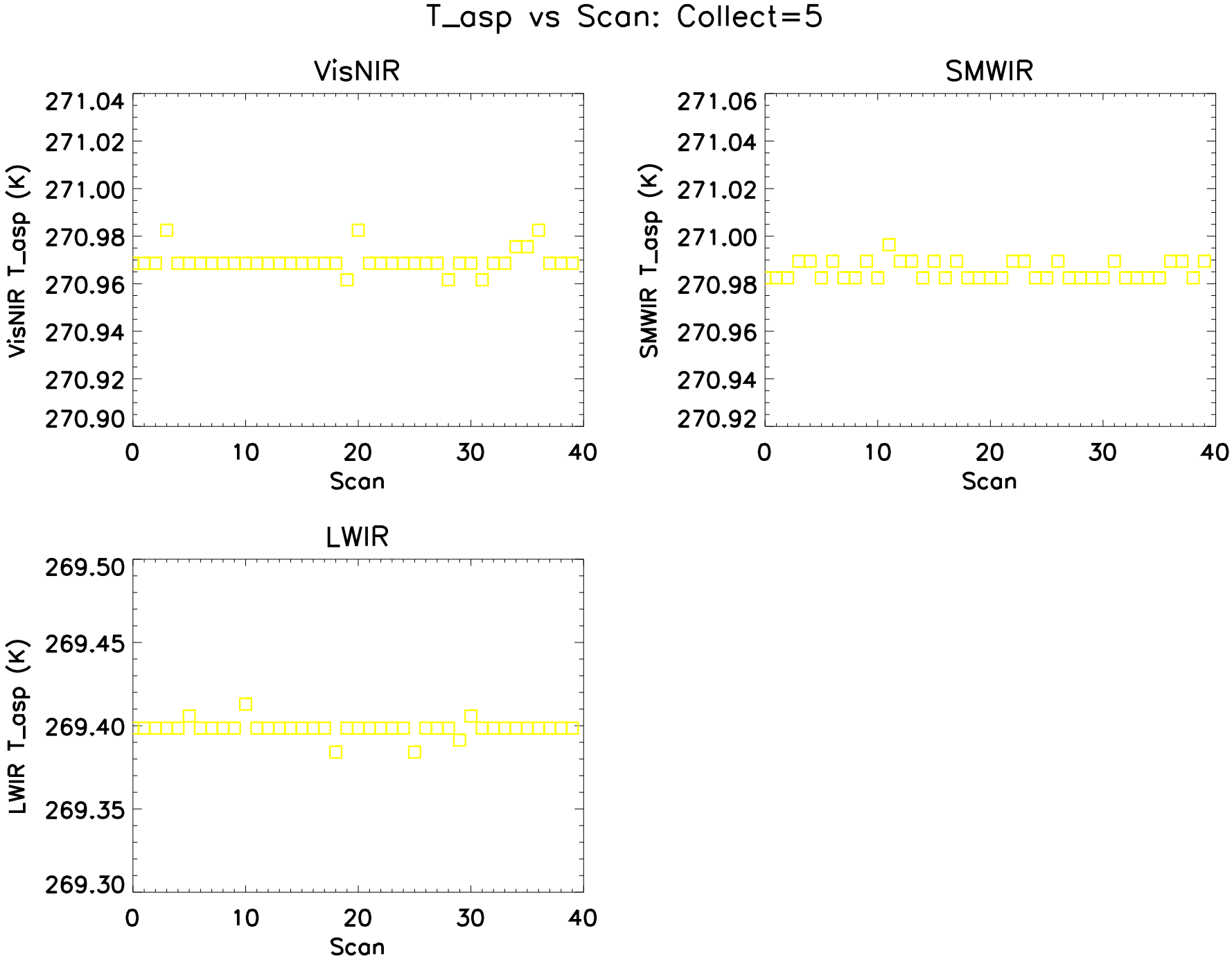


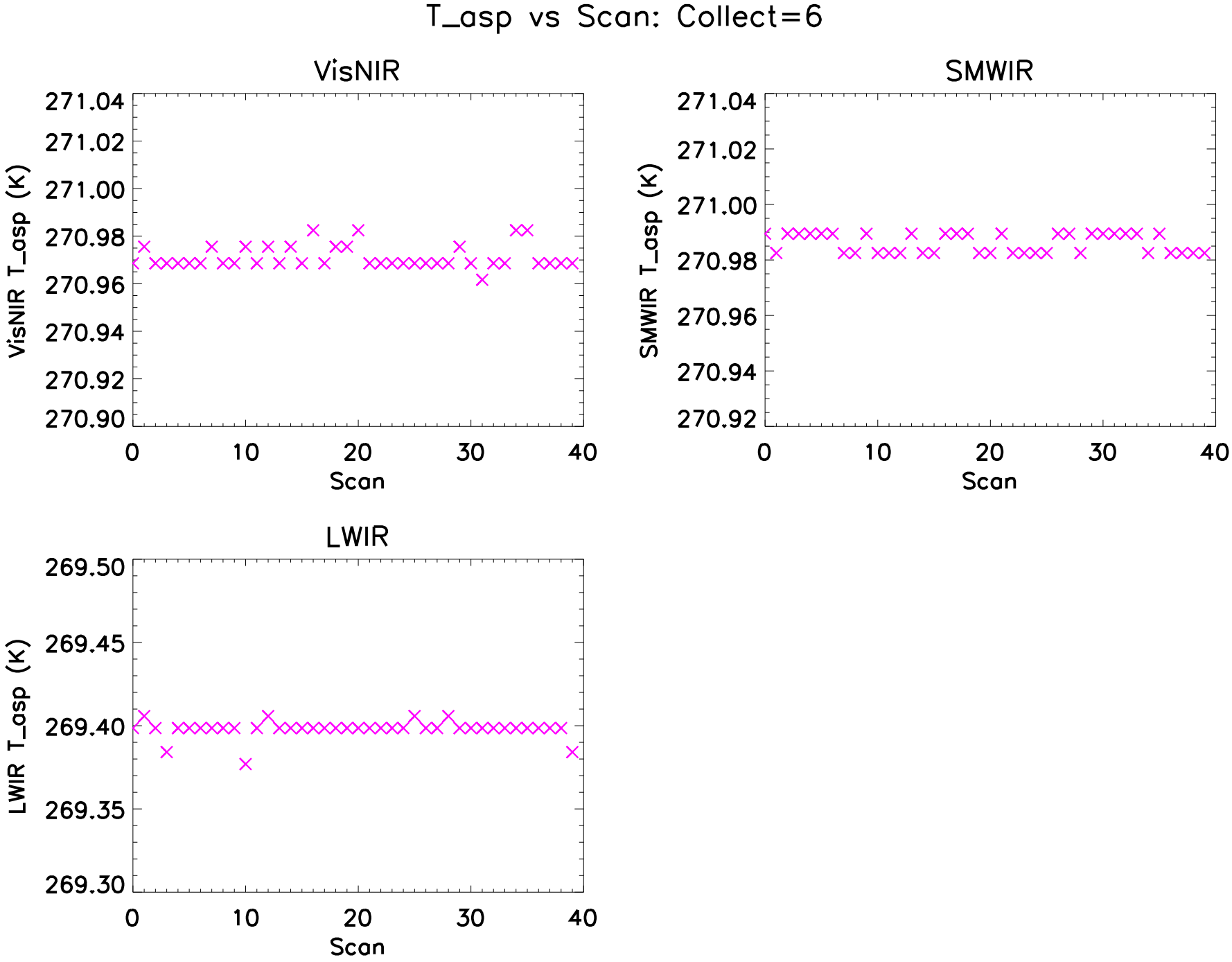

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
271.02
271.00
270.98
270.96
270.94
270.92
270.90
270.88
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.44
269.42
269.40
269.38
269.36
269.34
269.32
269.30
0
10
20
30
40
Scan

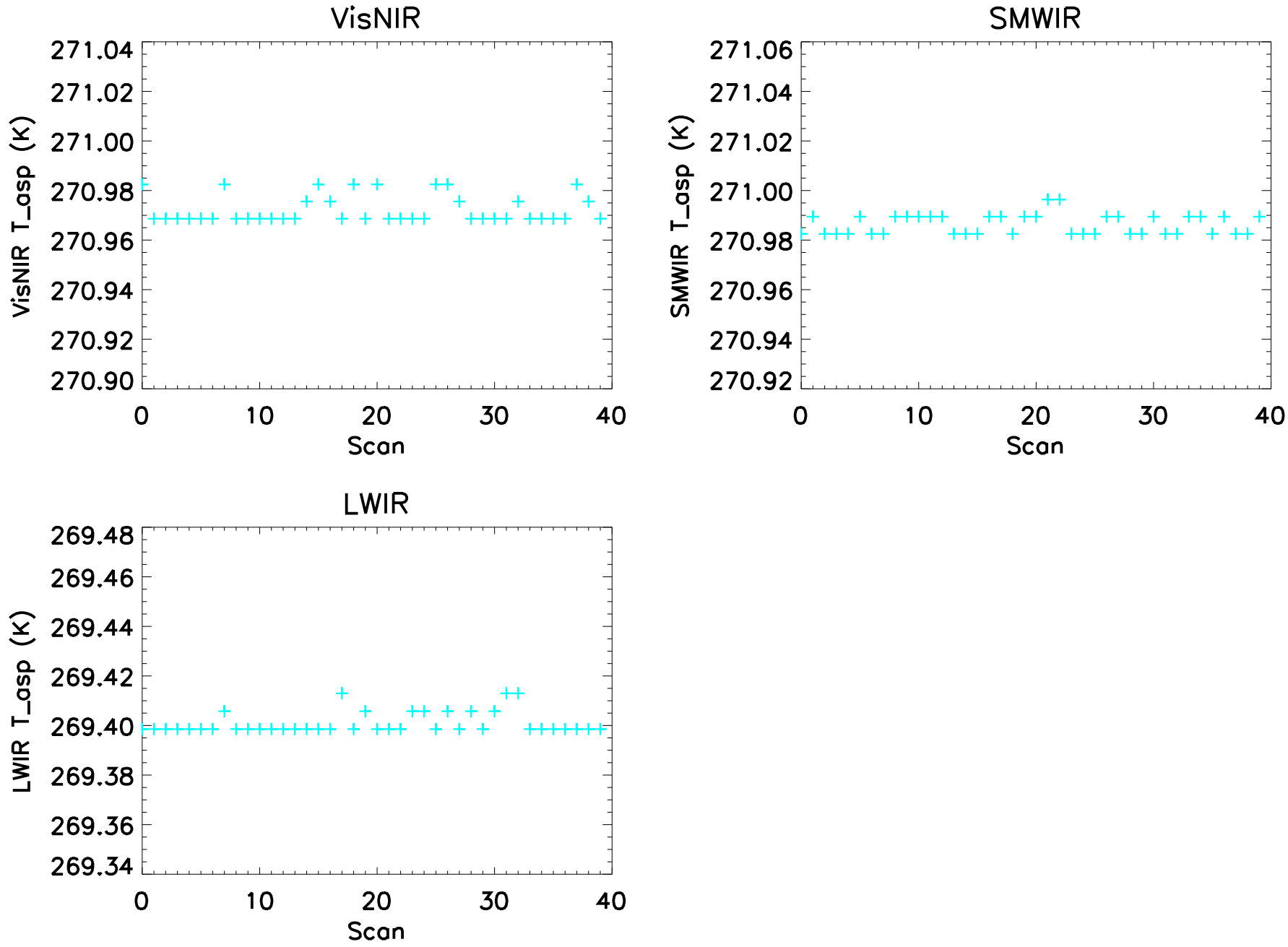

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.46
269.44
269.42
269.40
269.38
269.36
269.34
269.32
0
10
20
30
40
Scan

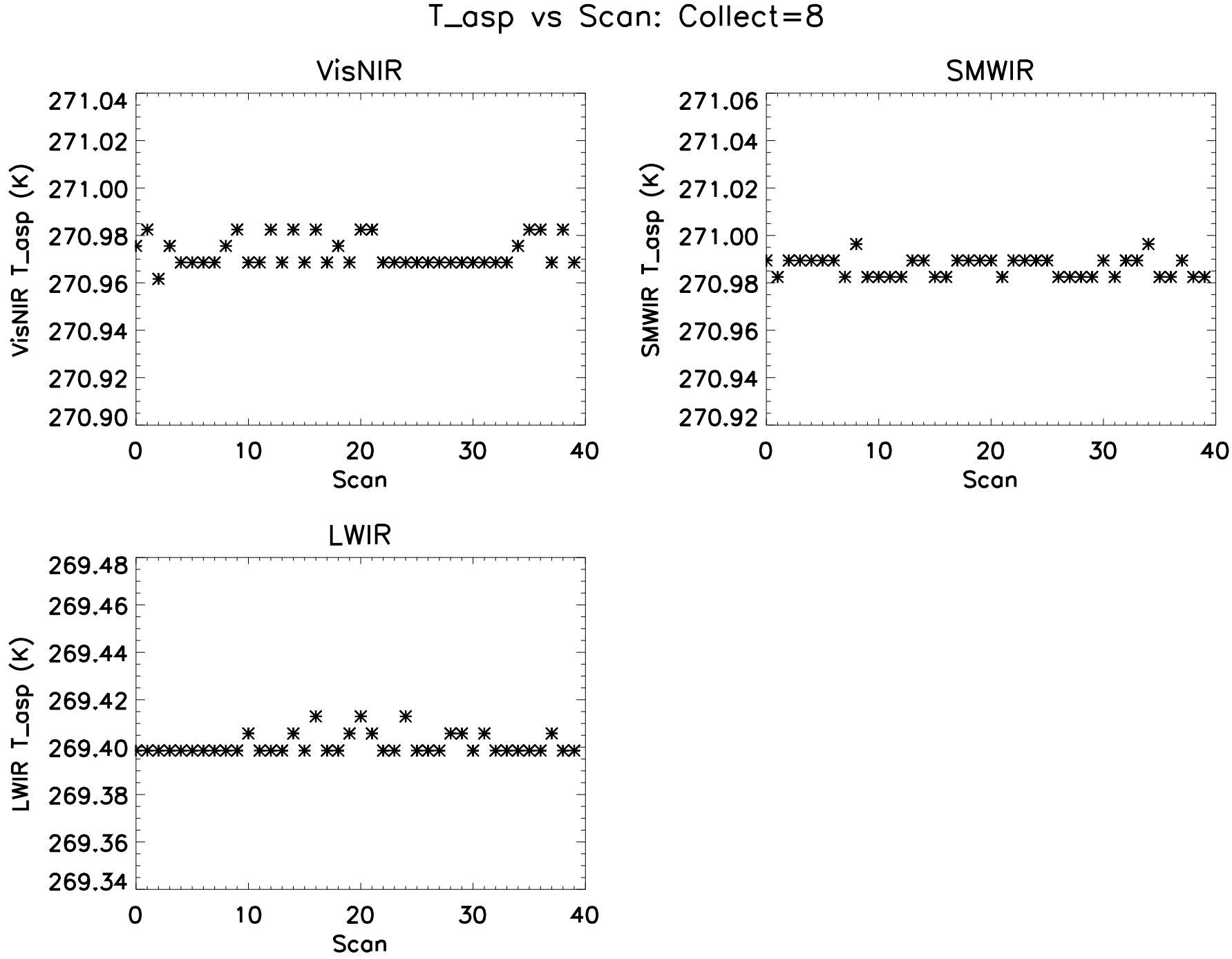

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.50
269.45
269.40
269.35
269.30
0
10
20
30
40
Scan

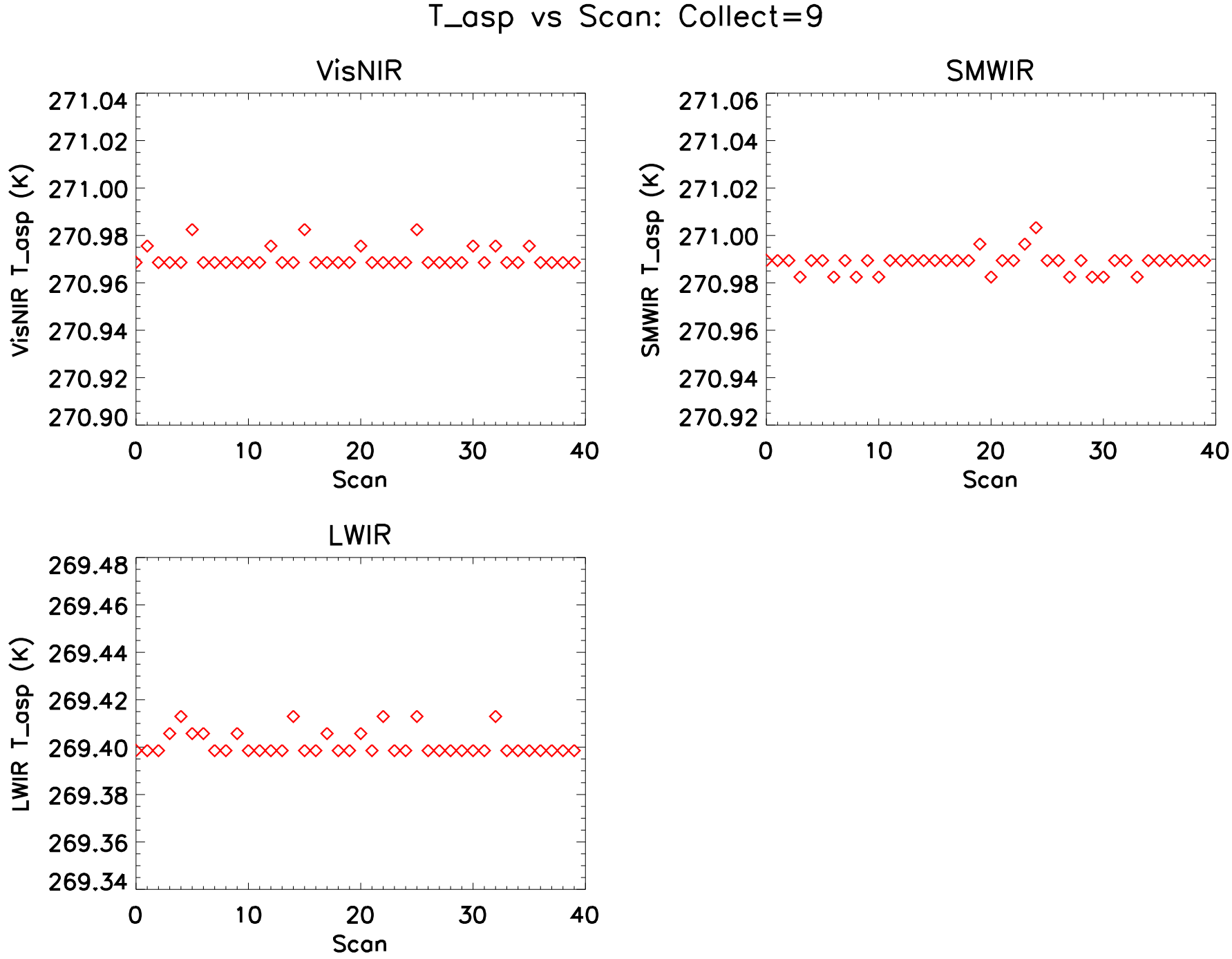

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.50
269.45
269.40
269.35
269.30
0
10
20
30
40
Scan

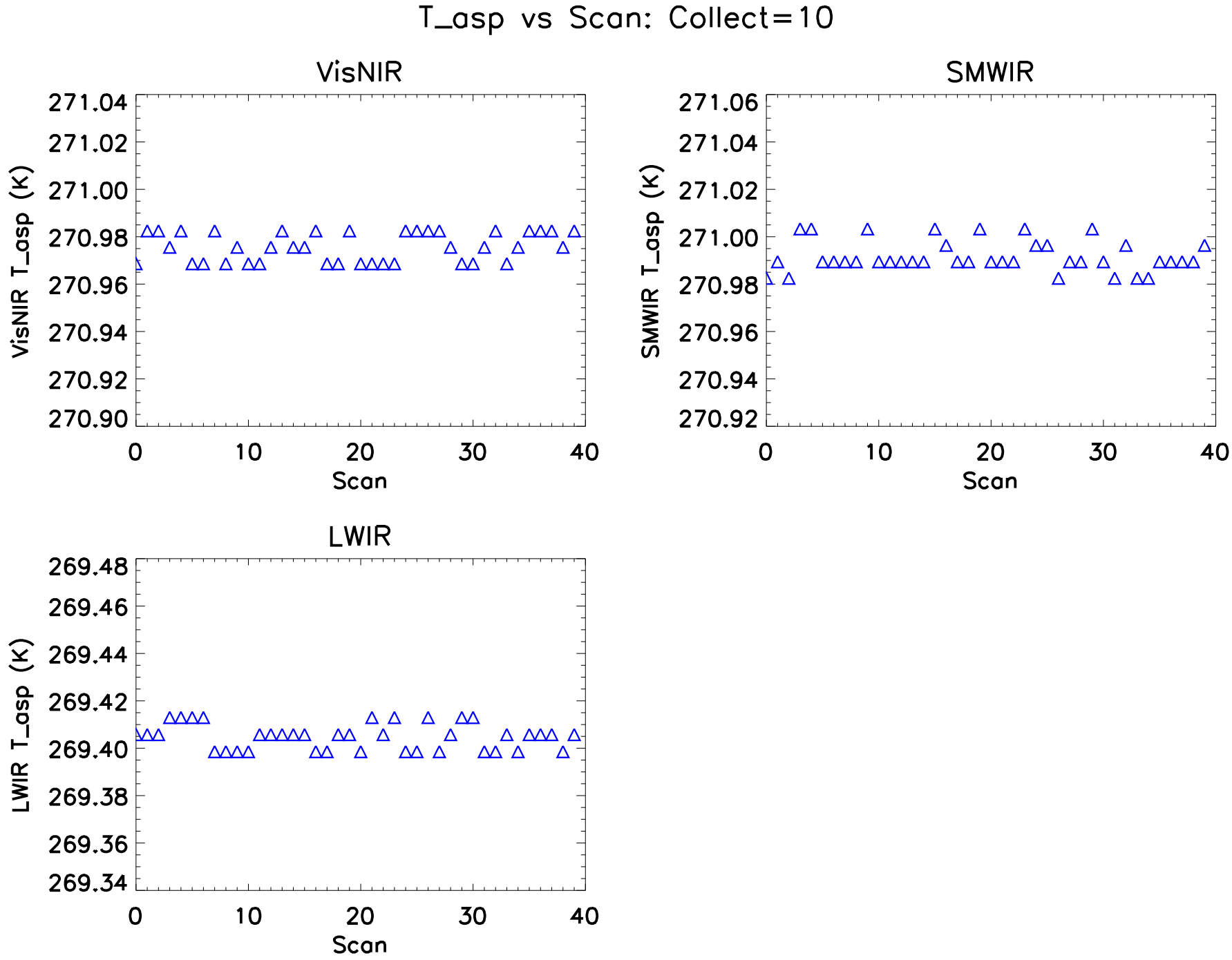

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.06
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.50
269.45
269.40
269.35
269.30
0
10
20
30
40
Scan

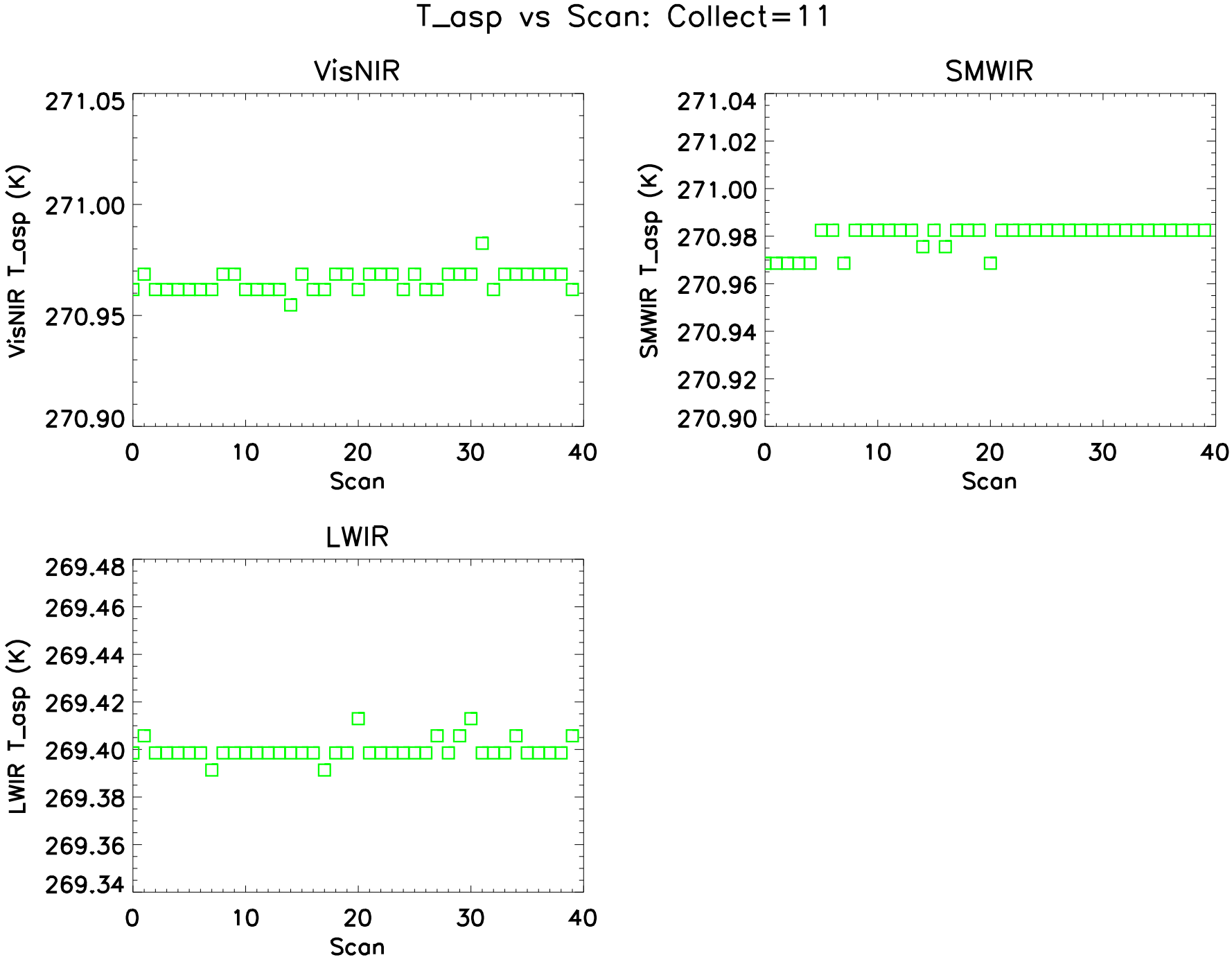

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.50
269.45
269.40
269.35
269.30
0
10
20
30
40
Scan

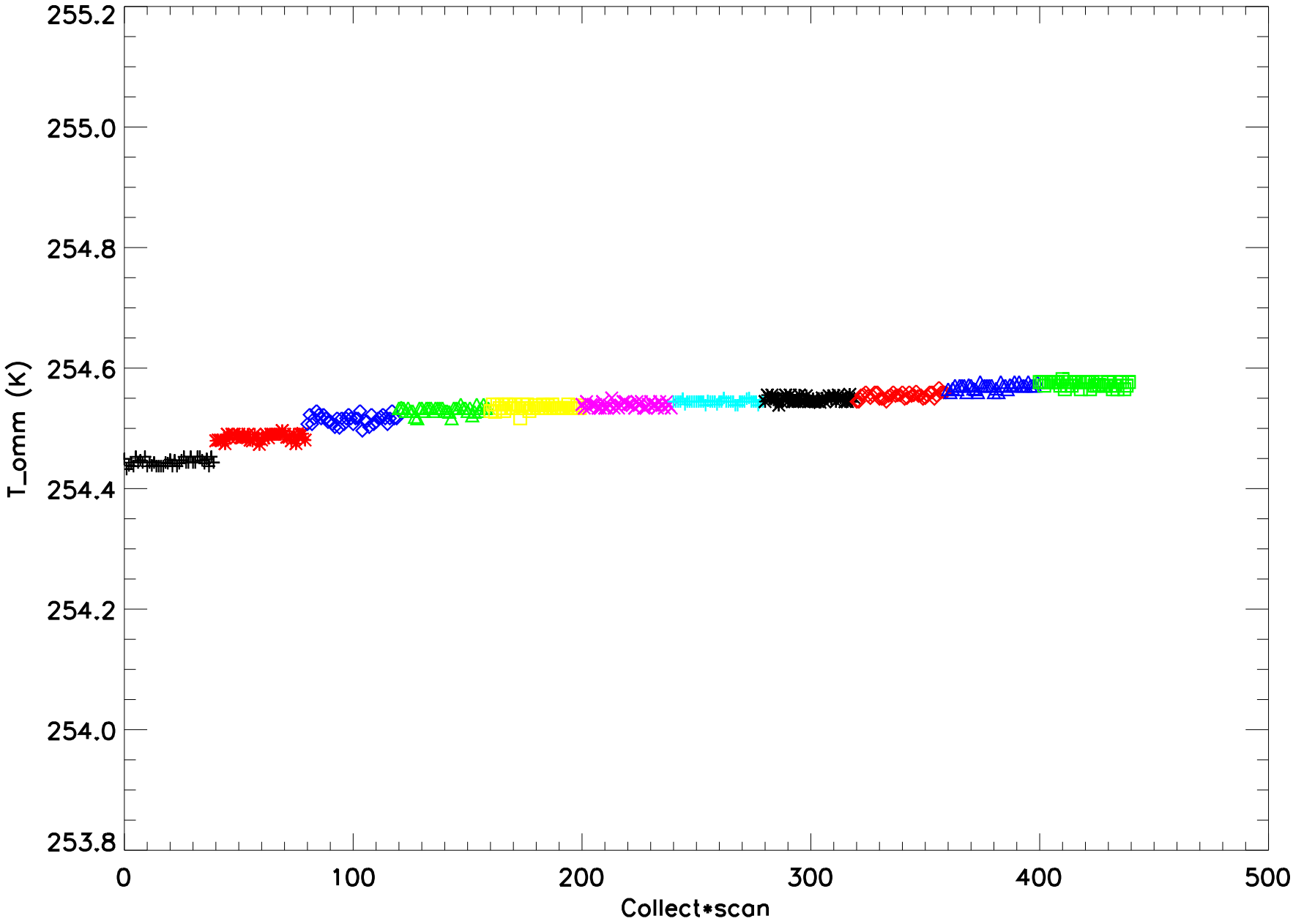

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.06
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.48
269.46
269.44
269.42
269.40
269.38
269.36
269.34
0
10
20
30
40
Scan

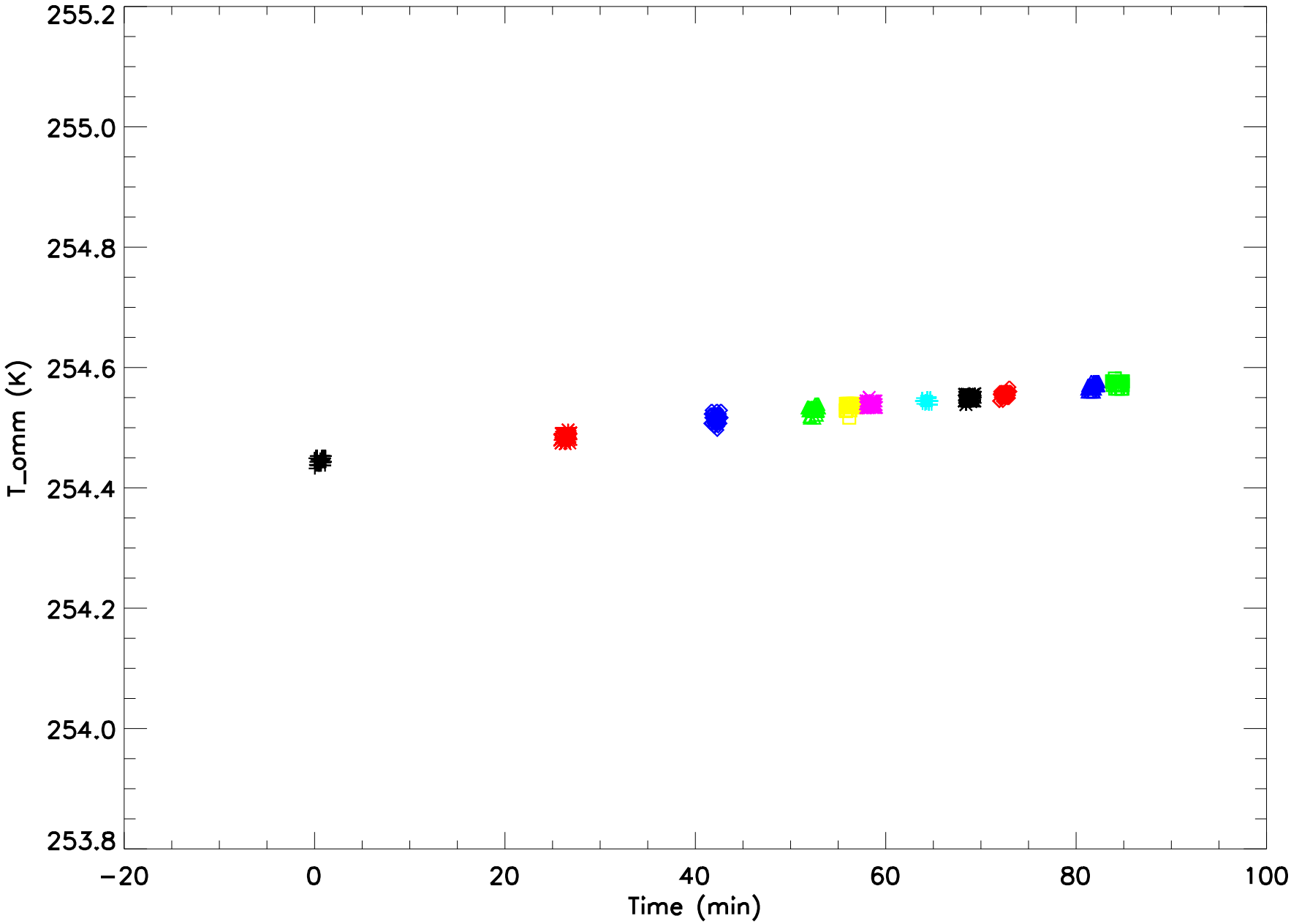

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.06
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.48
269.46
269.44
269.42
269.40
269.38
269.36
269.34
0
10
20
30
40
Scan


T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.06
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.48
269.46
269.44
269.42
269.40
269.38
269.36
269.34
0
10
20
30
40
Scan

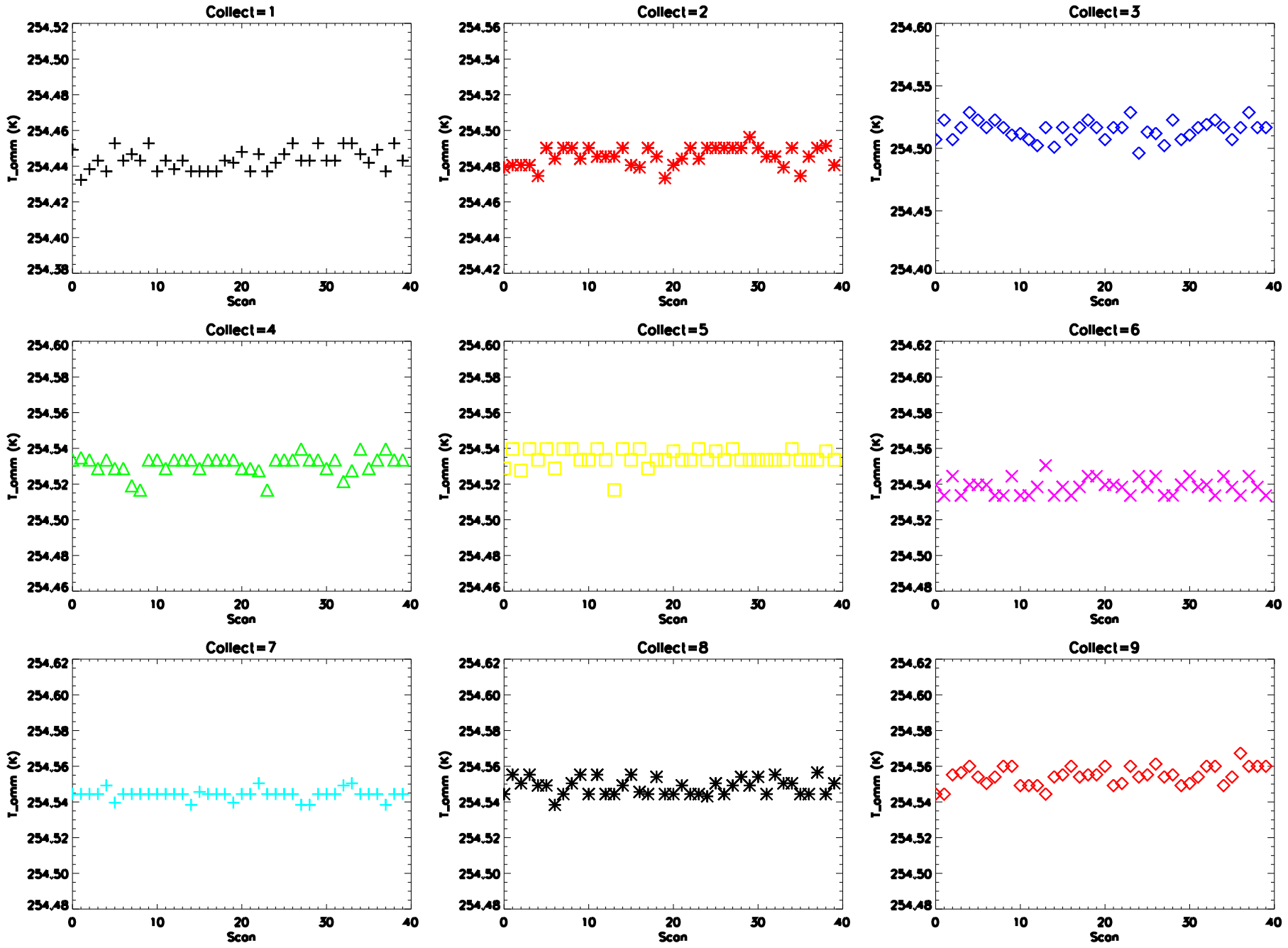

T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.06
271.04
271.02
271.00
270.98
270.96
270.94
270.92
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.48
269.46
269.44
269.42
269.40
269.38
269.36
269.34
0
10
20
30
40
Scan


T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
271.05
271.00
270.95
270.90
0
10
20
30
40
Scan
SMWIR
SMWIR T_asp (K)
271.04
271.02
271.00
270.98
270.96
270.94
270.92
270.90
0
10
20
30
40
Scan
LWIR
LWIR T_asp (K)
269.48
269.46
269.44
269.42
269.40
269.38
269.36
269.34
0
10
20
30
40
Scan

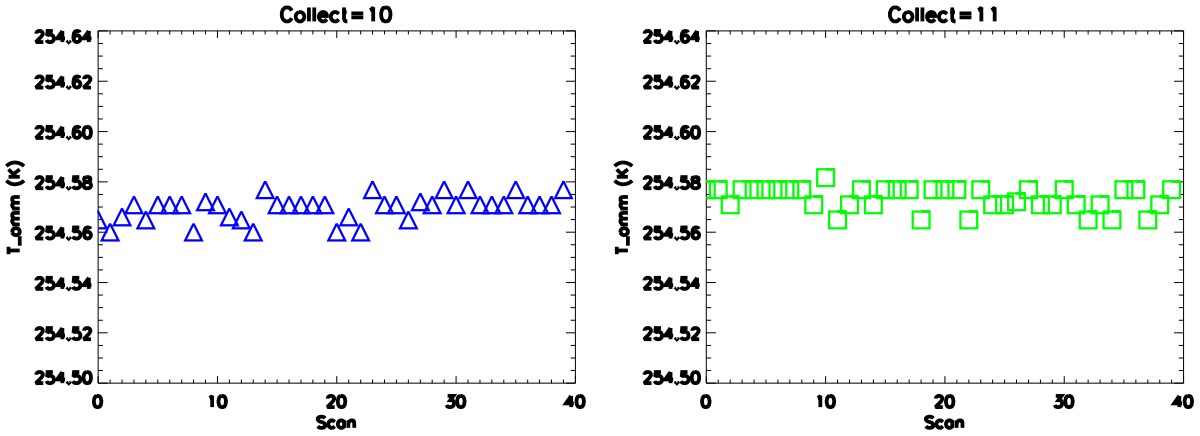

T_omm vs Scan and Collect
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
T_omm (K)
0
100
200
300
400
500
Collect*scan


T_omm vs Time
T_omm (K)
255.2
255.0
254.8
254.6
254.4
254.2
254.0
253.8
−20
0
20
40
60
80
100
Time (min)

T_omm vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_omm (K)
Scan

T_omm vs Scan


Collect = 10
Collect = 11
T_omm (K)
Scan
254.64
254.62
254.60
254.58
254.56
254.54
254.52
254.50
0
10
20
30
40