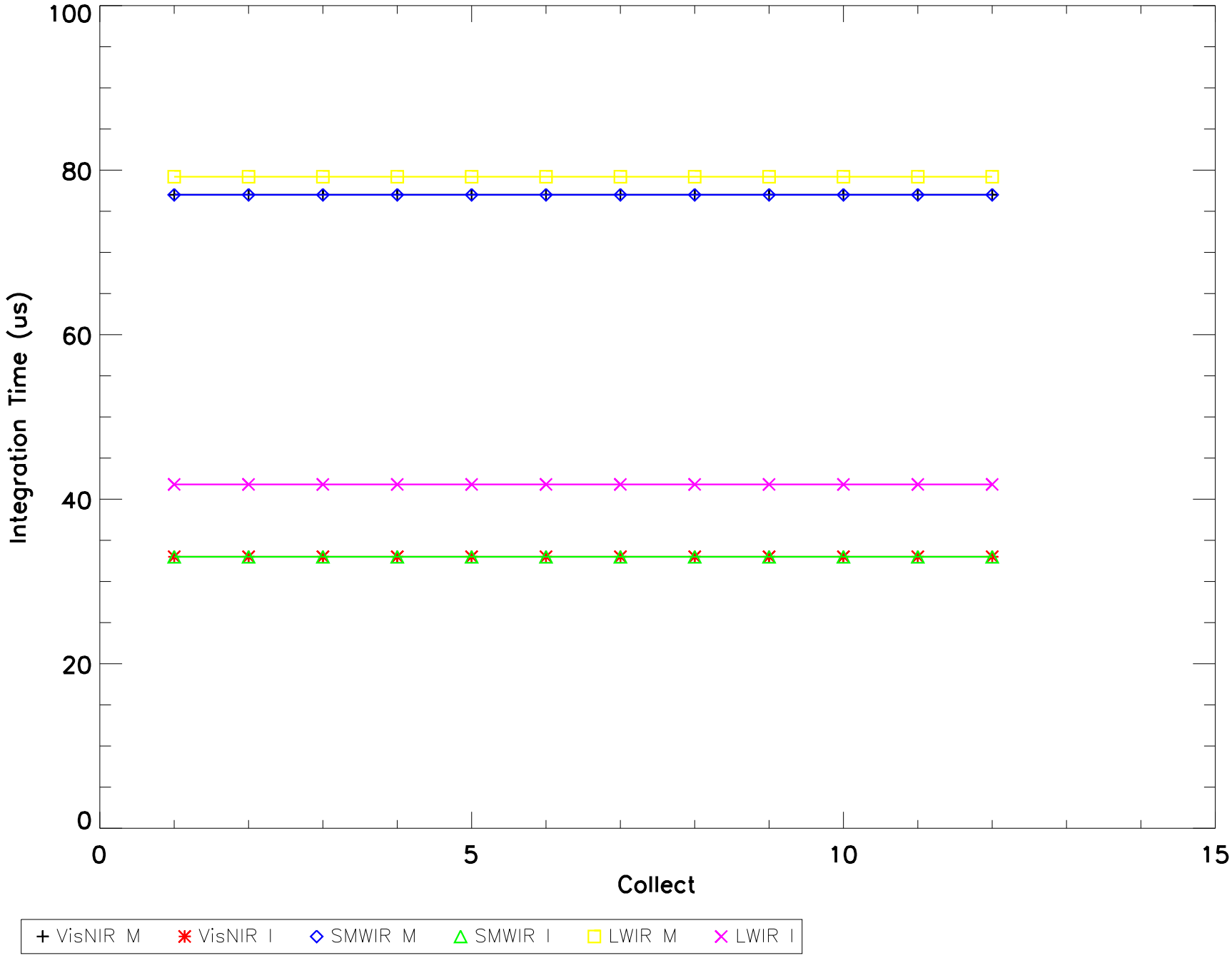
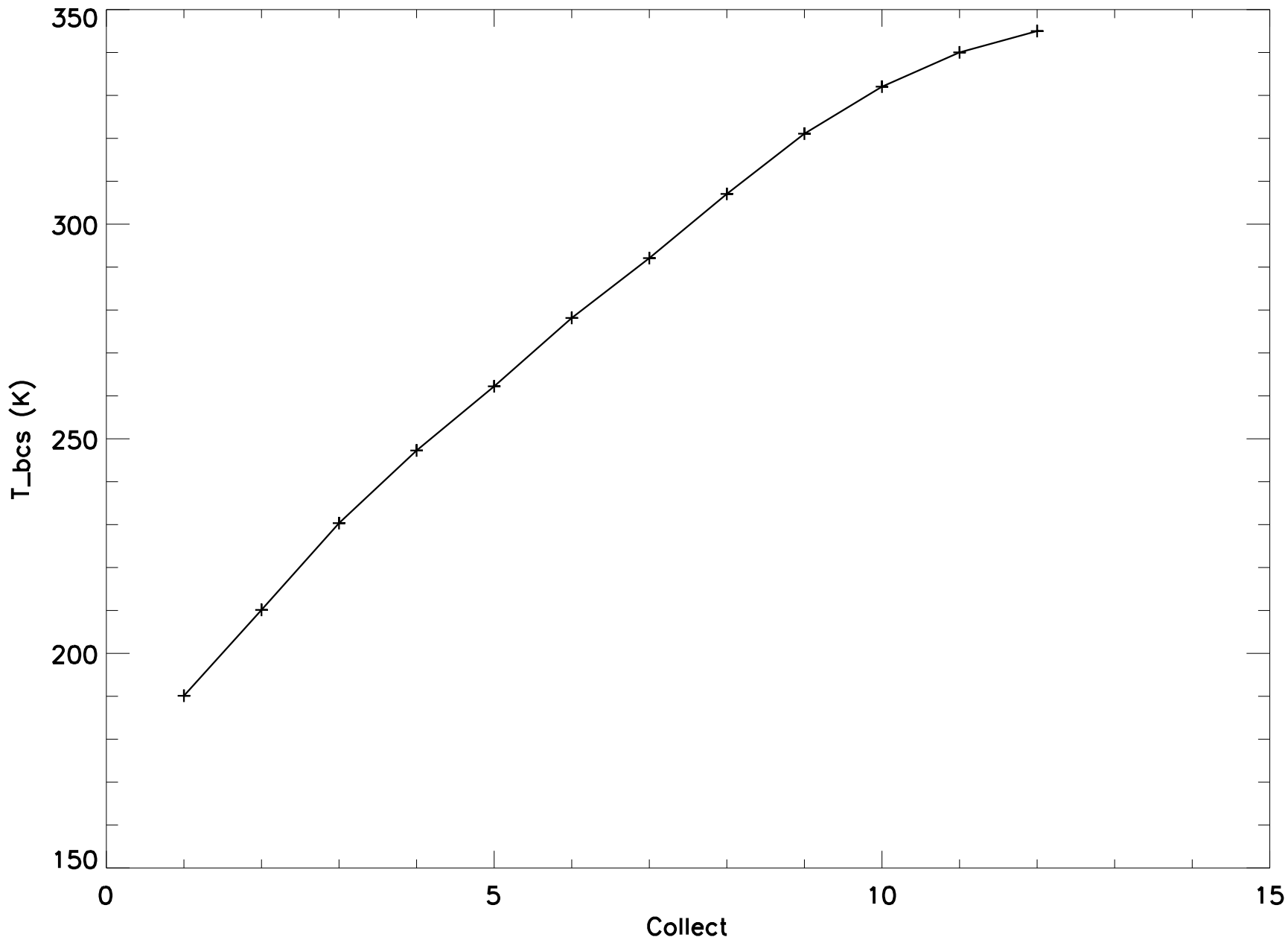
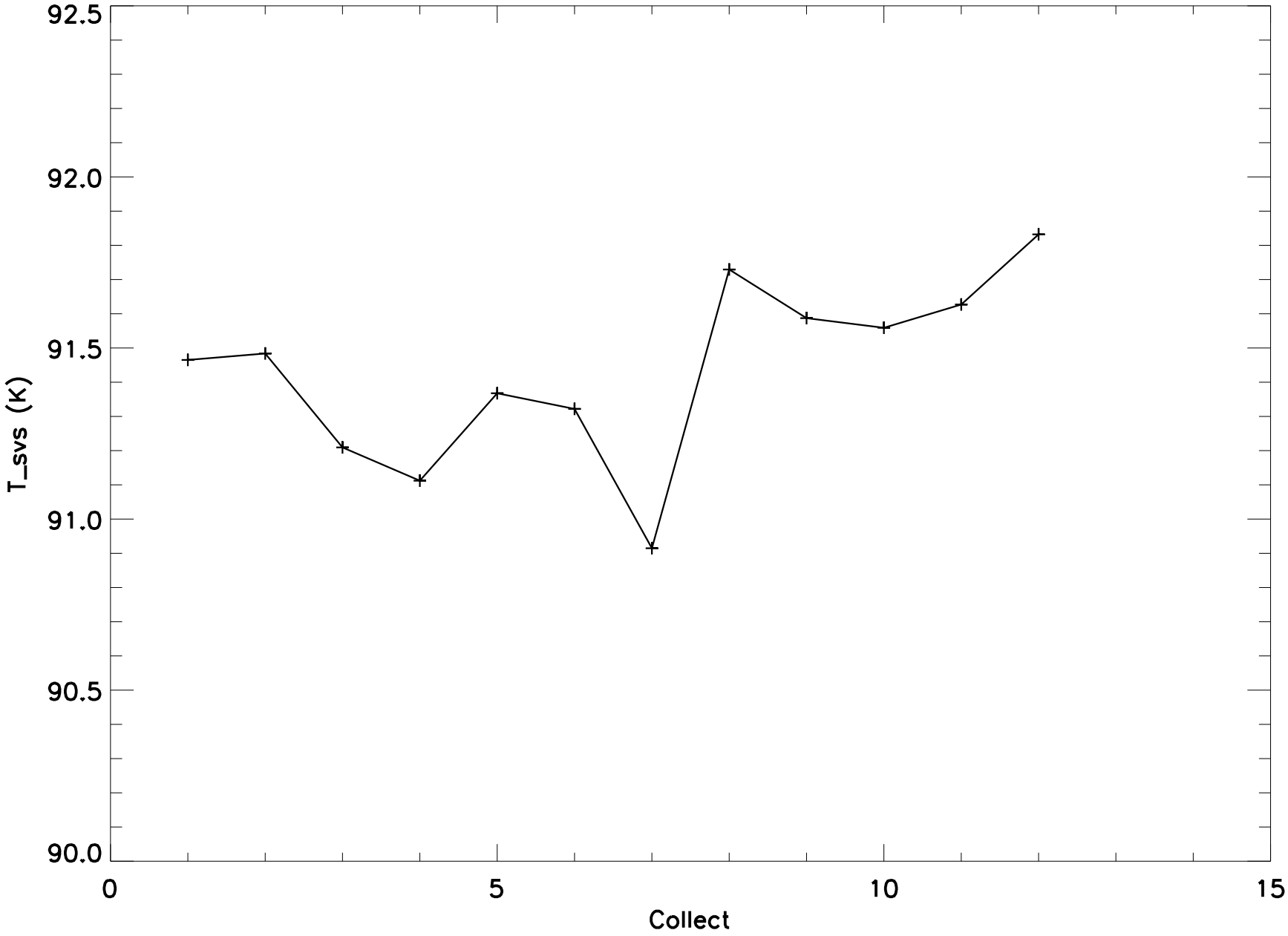
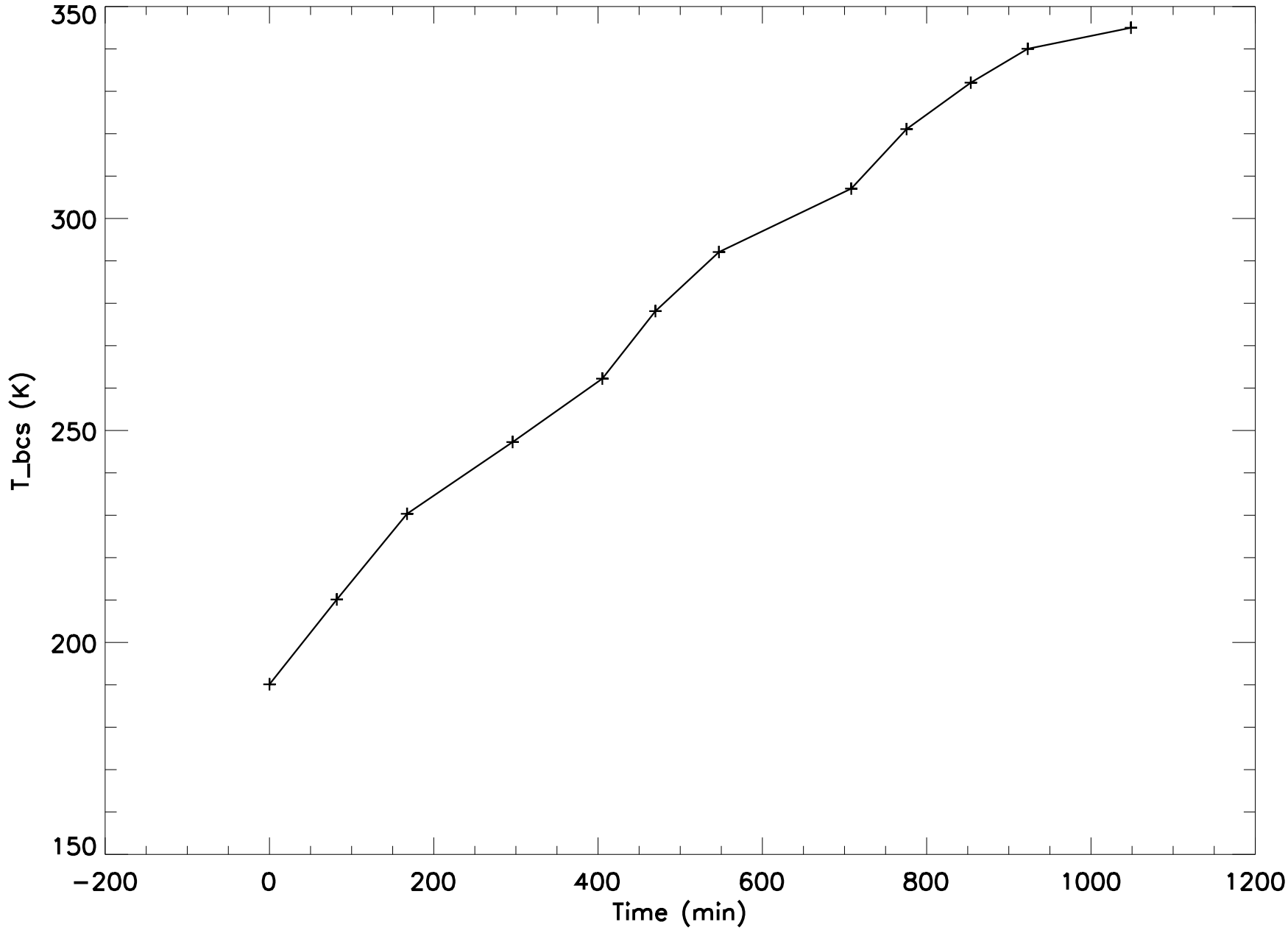
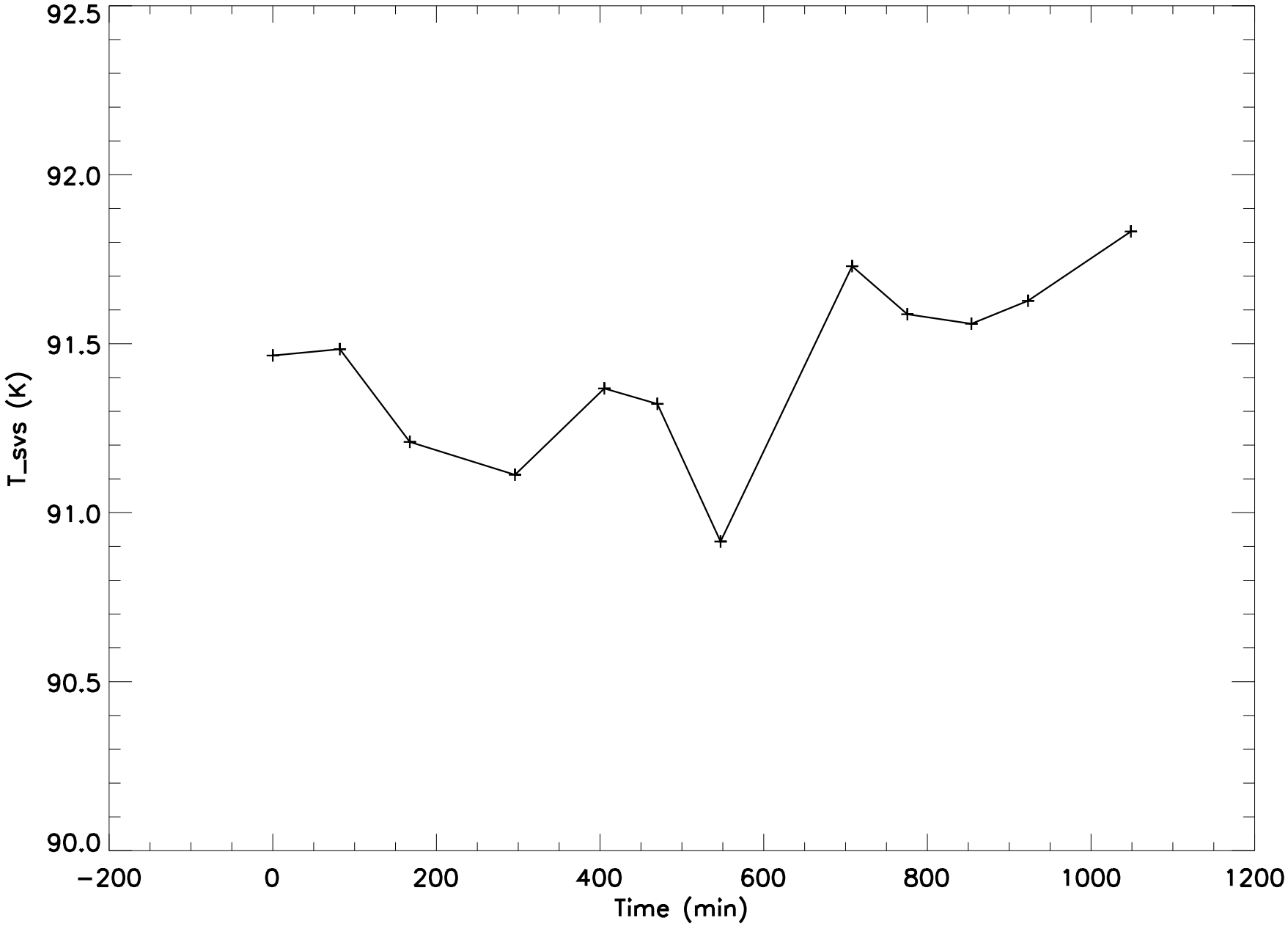
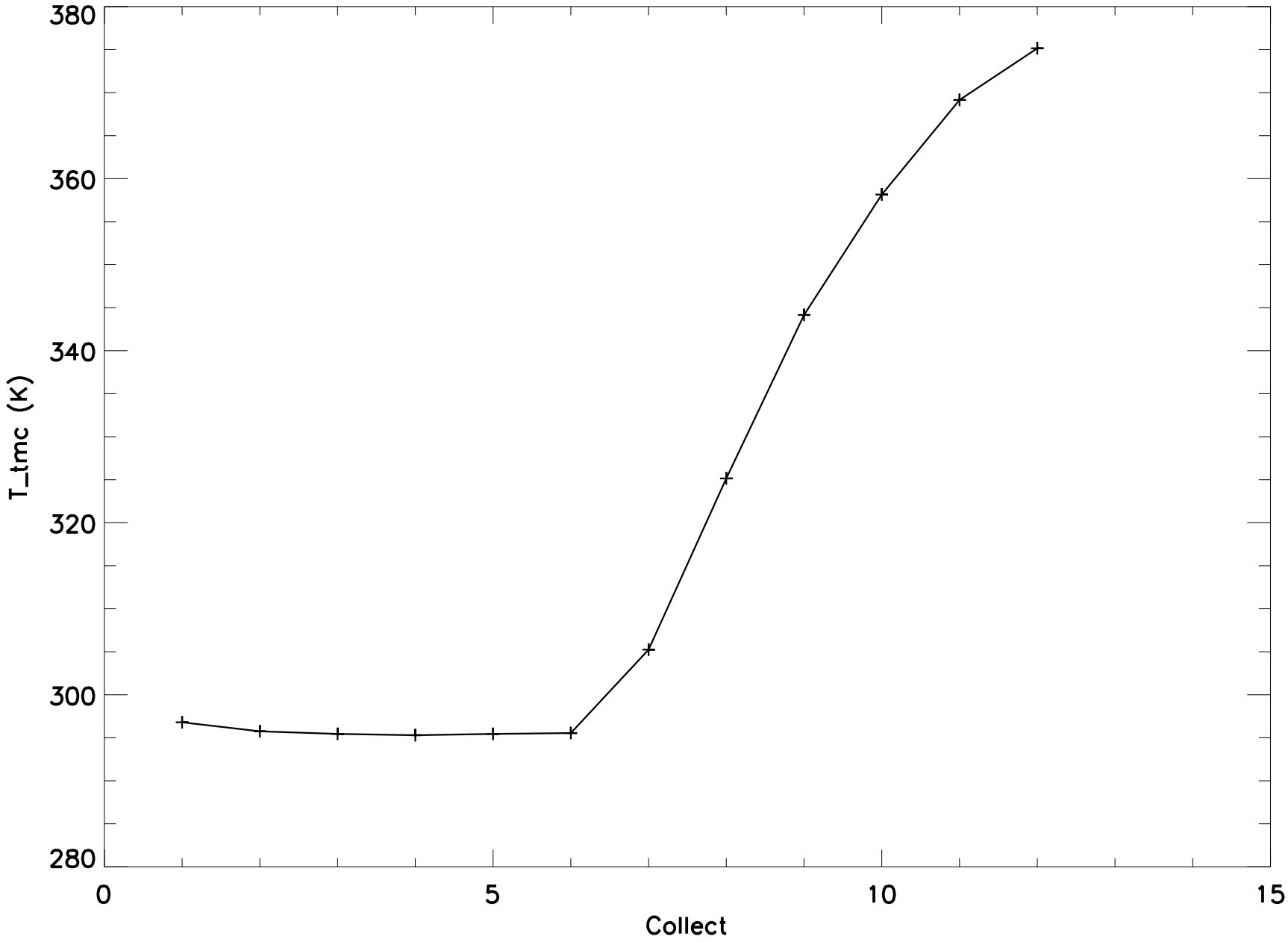

Integration Time vs Collect
Integration Time (us)
100
80
60
40
20
0
0
5
10
15
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I

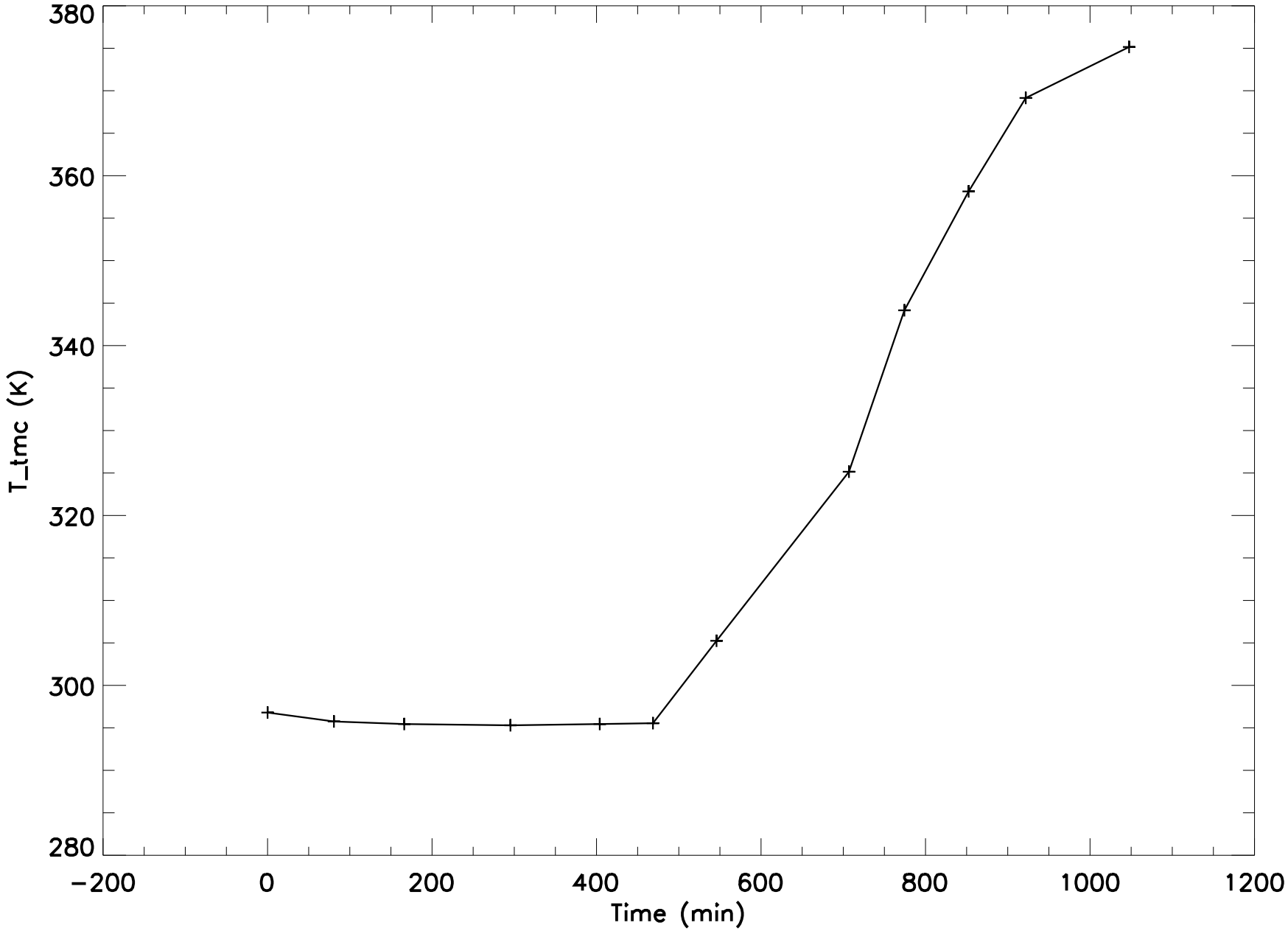

T_bcs vs Collect
350
300
250
200
150
T_bcs (K)
0
5
10
15
Collect

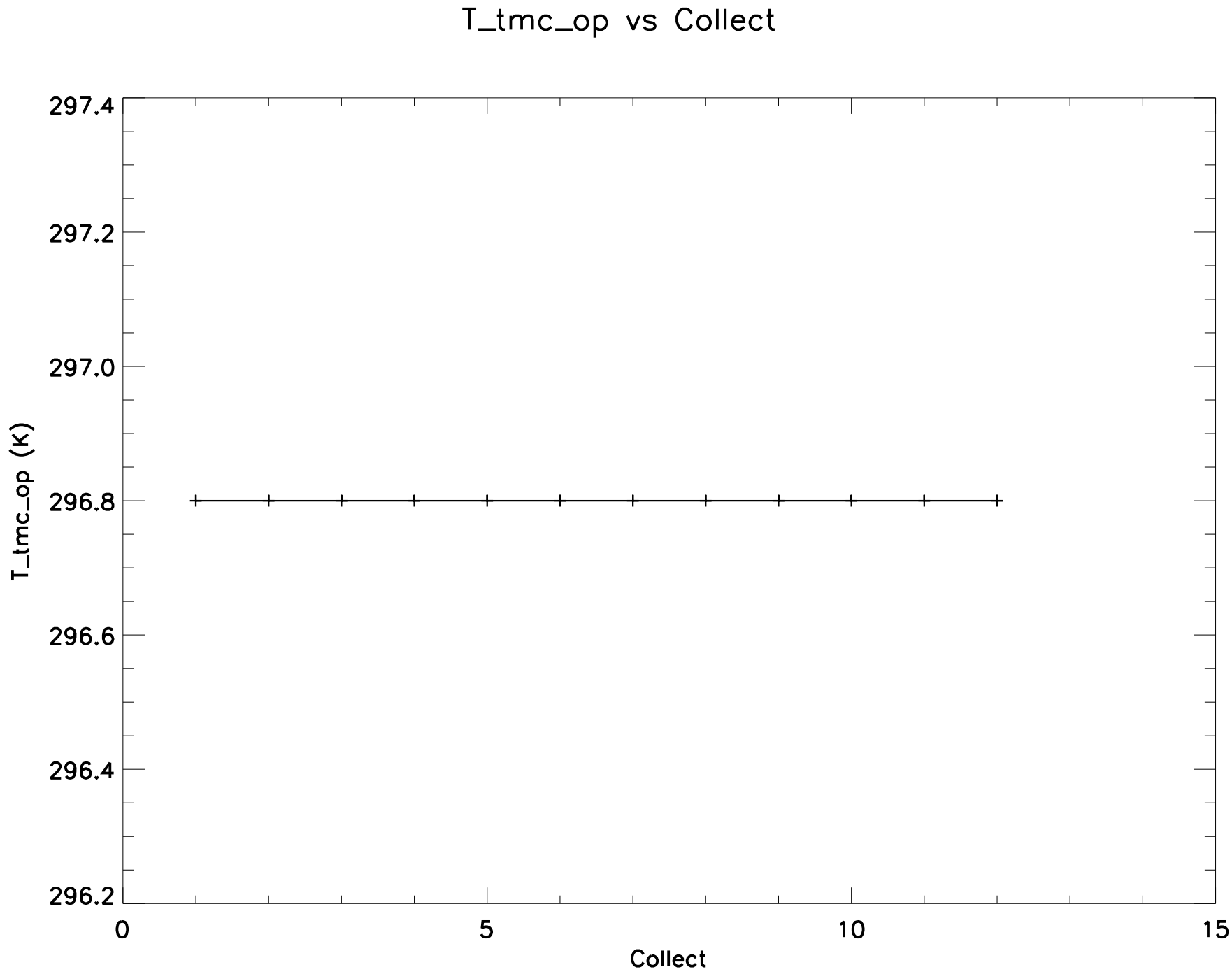

T_svs vs Collect
92.5
92.0
91.5
91.0
90.5
90.0
T_svs (K)
0
5
10
15
Collect

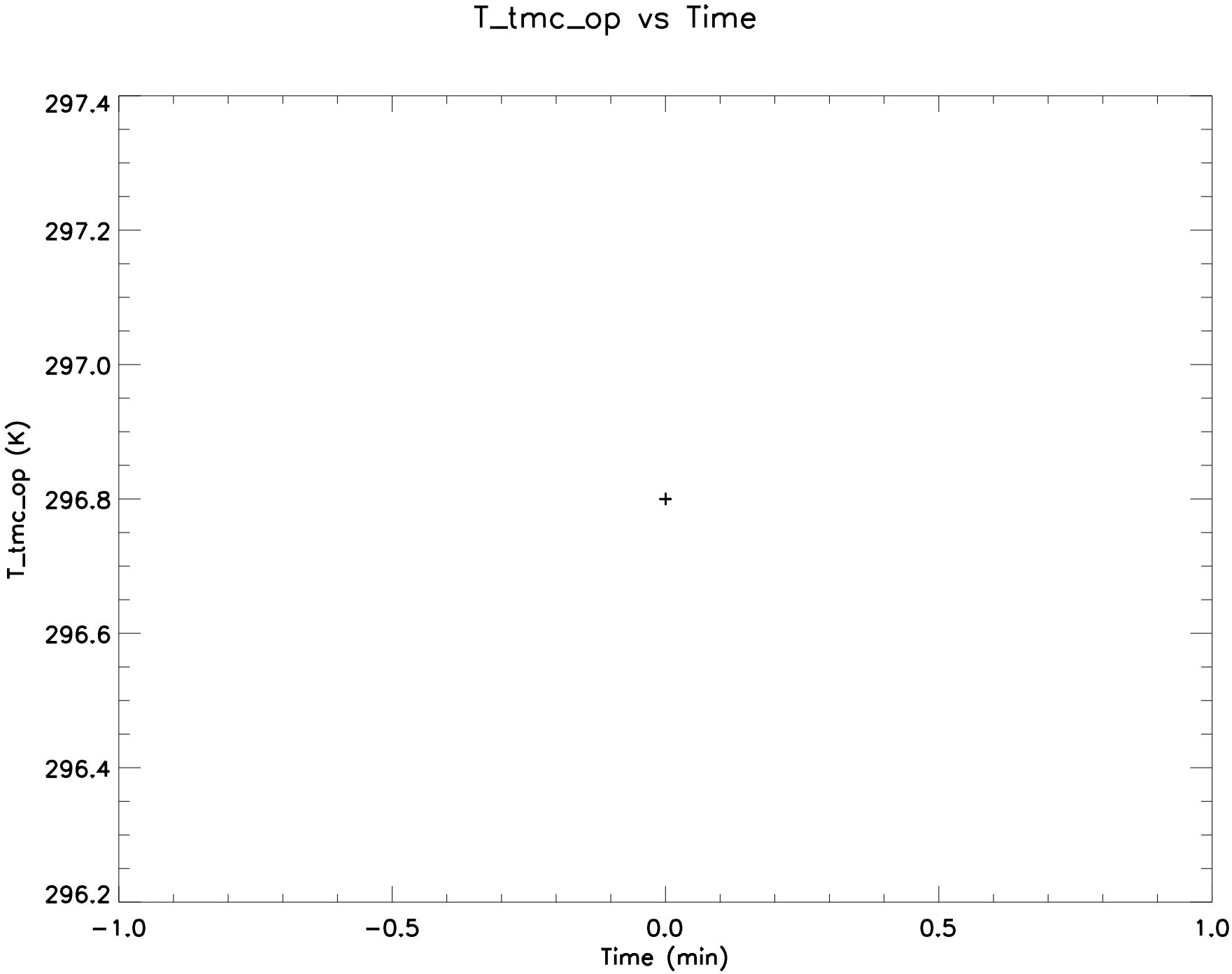

T_bcs vs Time
350
300
250
200
150
T_bcs (K)
−200
0
200
400
600
800
1000
1200
Time (min)

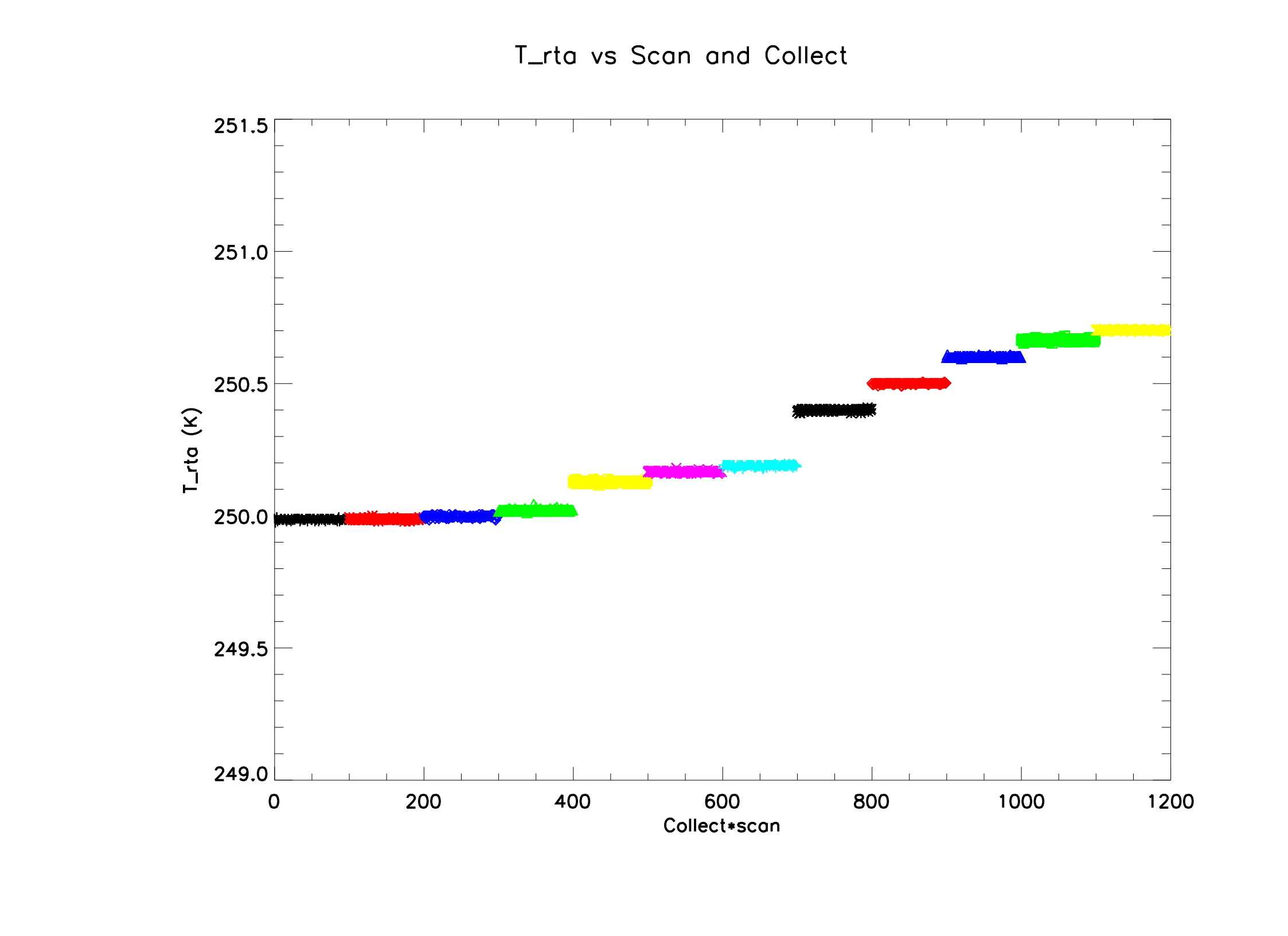

T_svs vs Time
92.5
92.0
91.5
91.0
90.5
90.0
T_svs (K)
−200
0
200
400
600
800
1000
1200
Time (min)

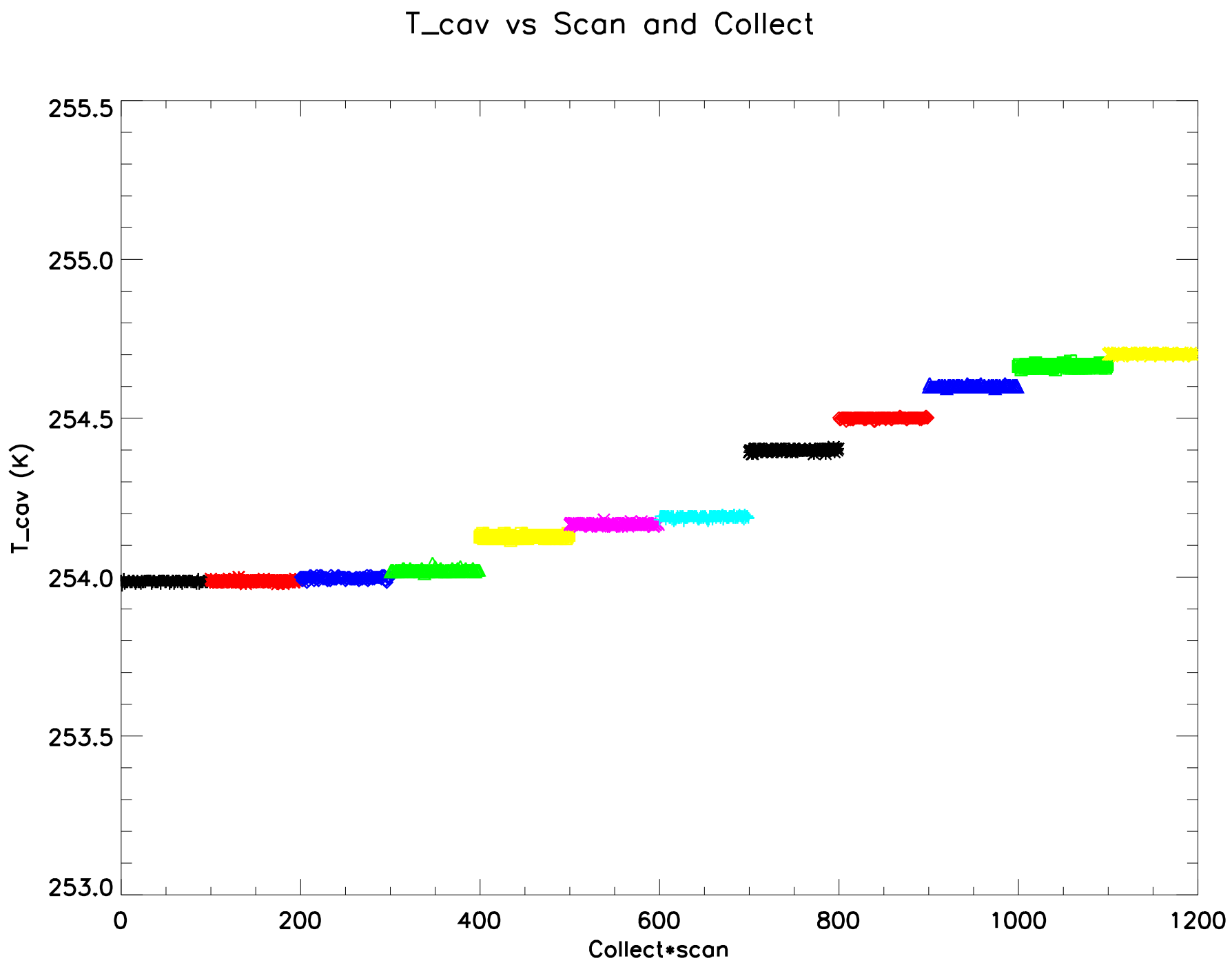

T_tmc vs Collect
380
360
340
320
300
280
T_tmc (K)
0
5
10
15
Collect

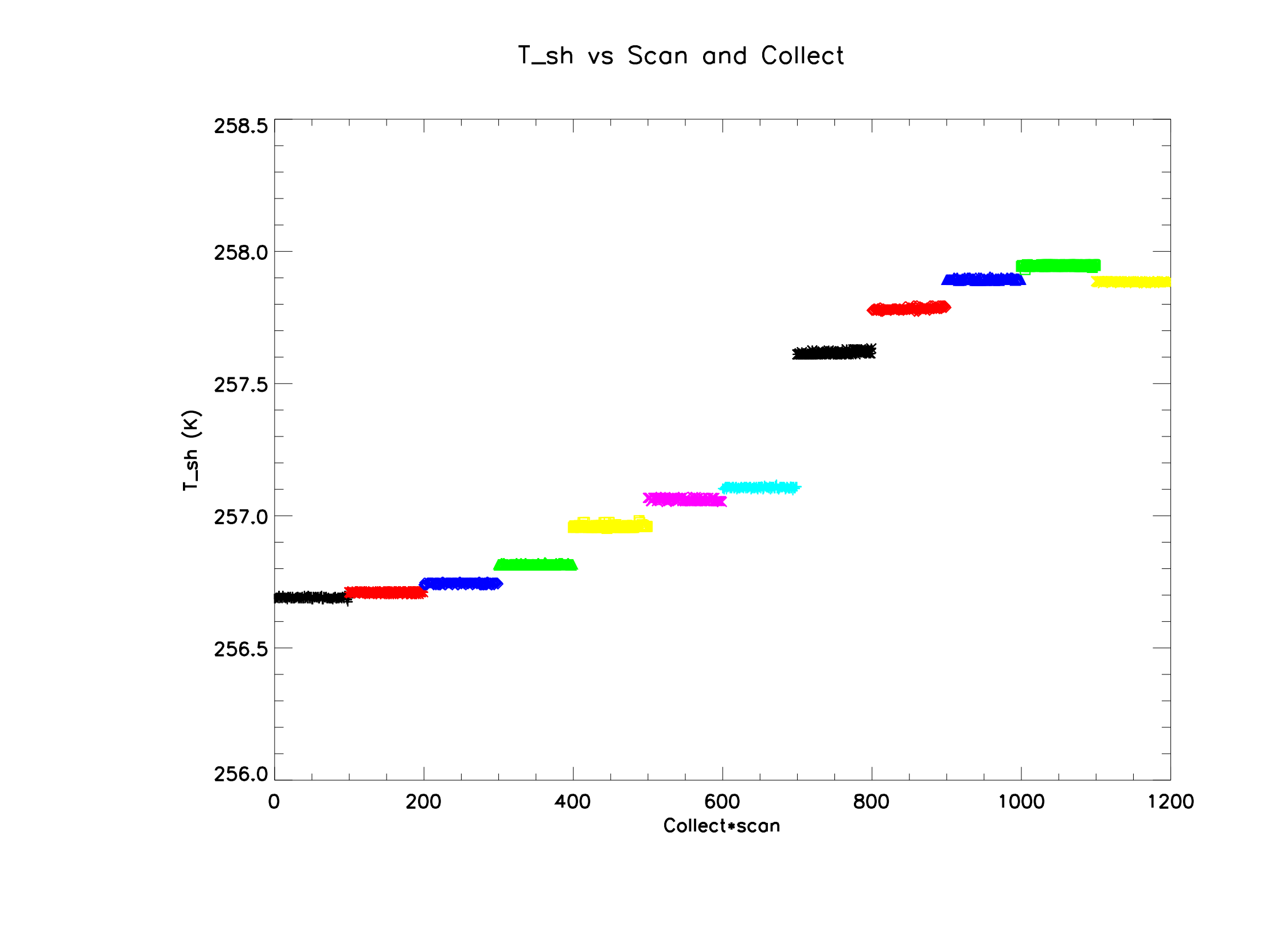

T_tmc vs Time
380
360
340
320
300
280
T_tmc (K)
−200
0
200
400
600
800
1000
1200
Time (min)

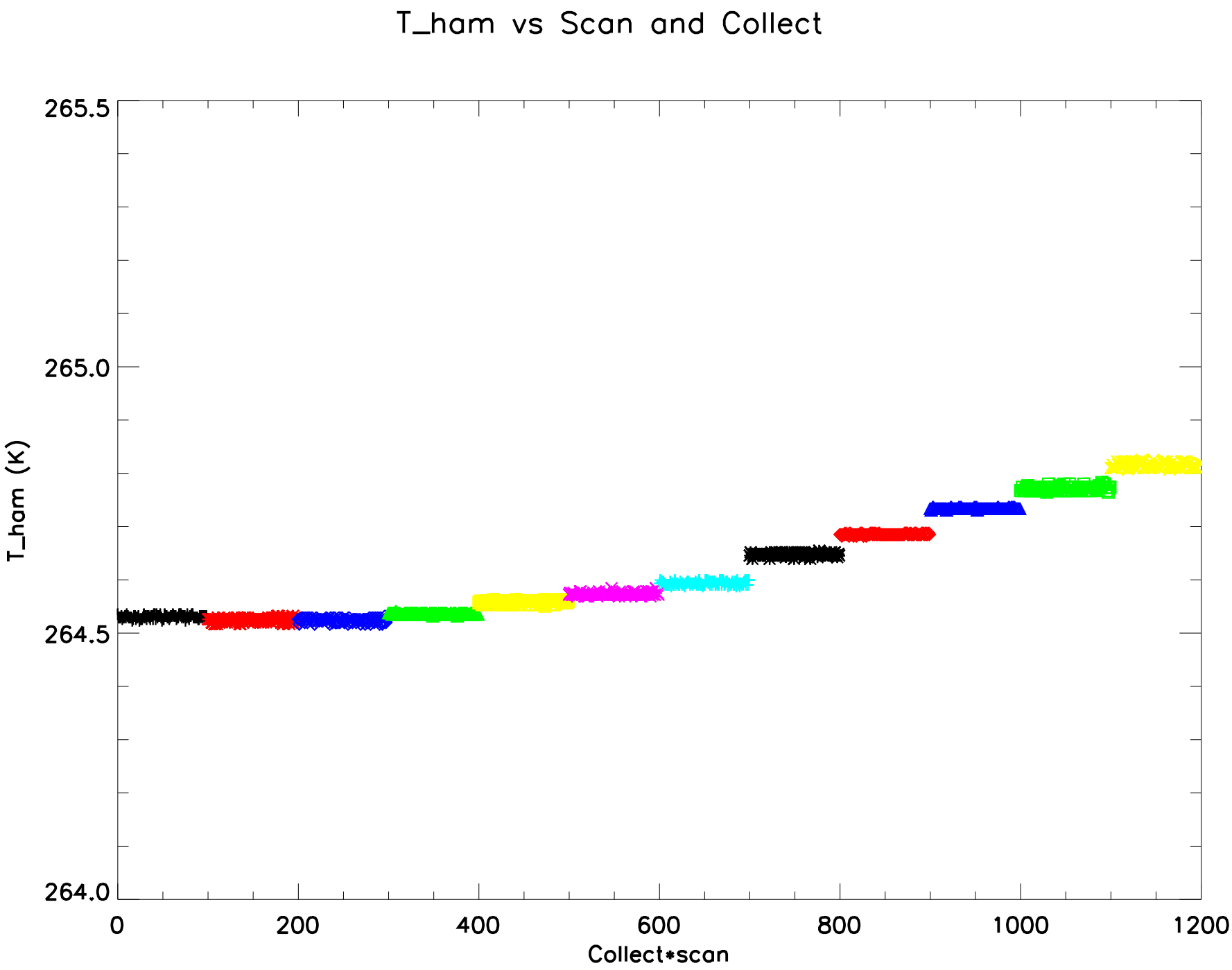

T_tmc_op vs Collect
297.4
297.2
297.0
296.8
296.6
296.4
296.2
T_tmc_op (K)
0
5
10
15
Collect

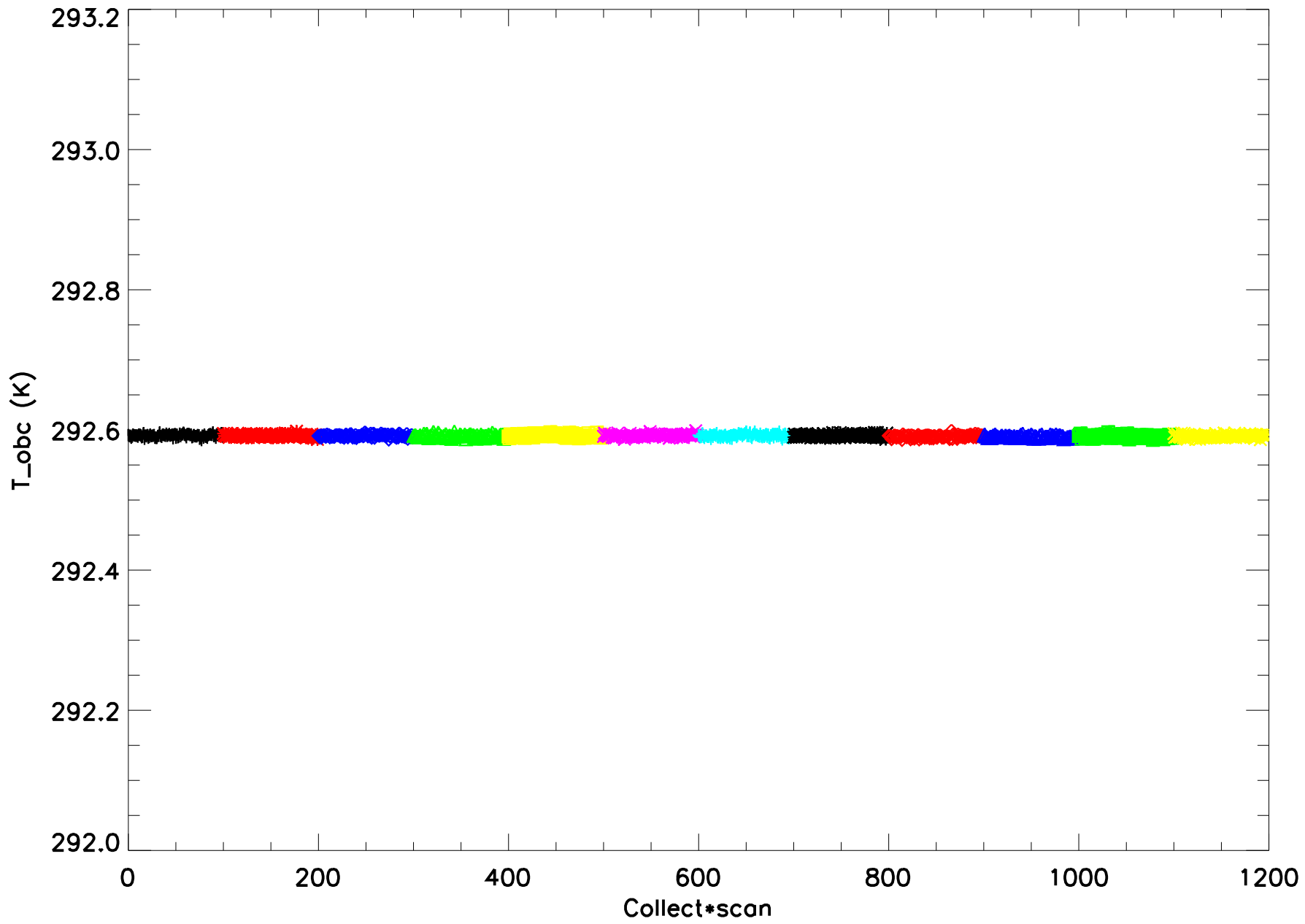

T_tmc_op vs Time
297.4
297.2
297.0
296.8
296.6
296.4
296.2
T_tmc_op (K)
−1.0
−0.5
0.0
0.5
1.0
Time (min)

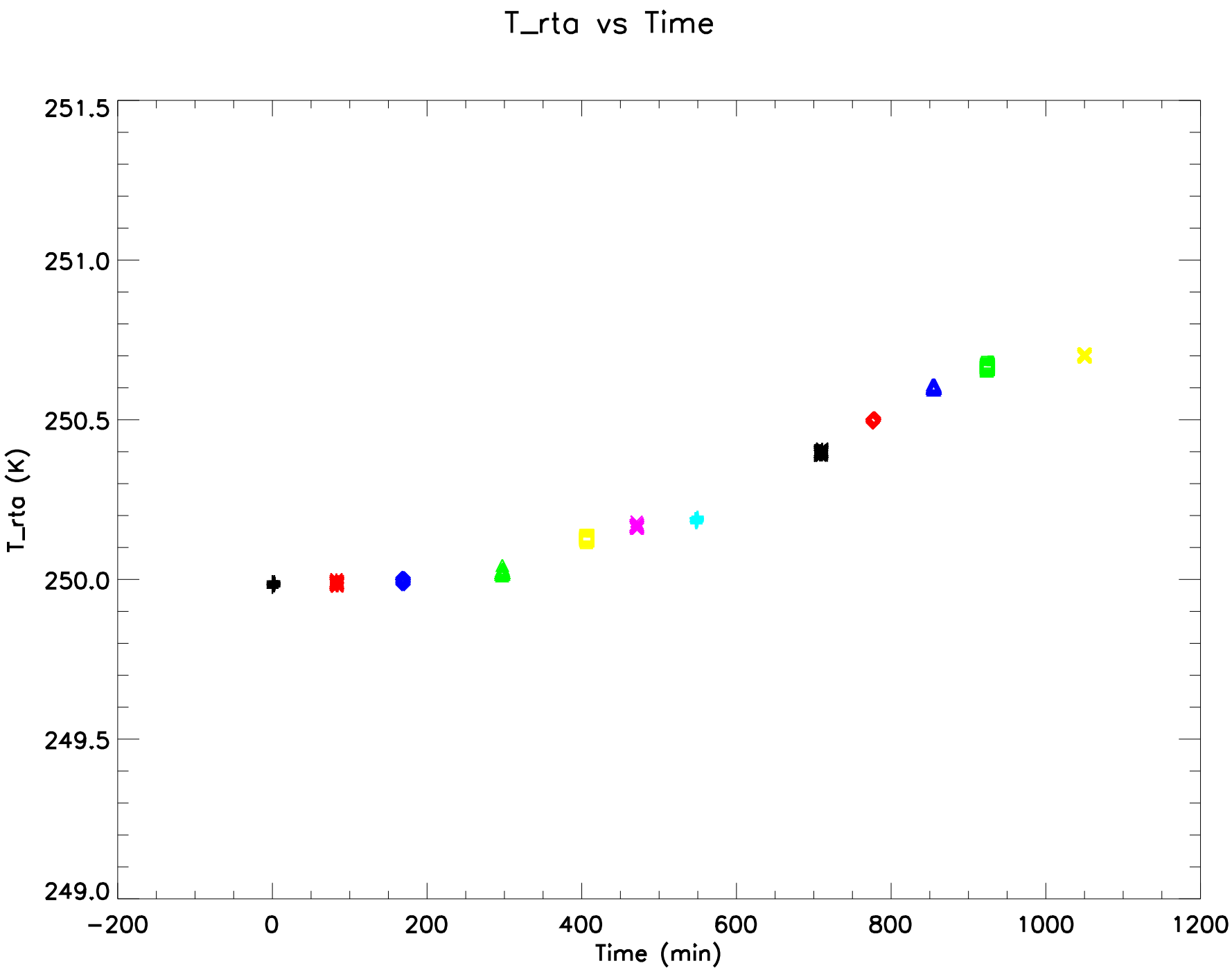

T_rta vs Scan and Collect
251.5
251.0
250.5
250.0
249.5
249.0
T_rta (K)
0
200
400
600
800
1000
1200
Collect*scan

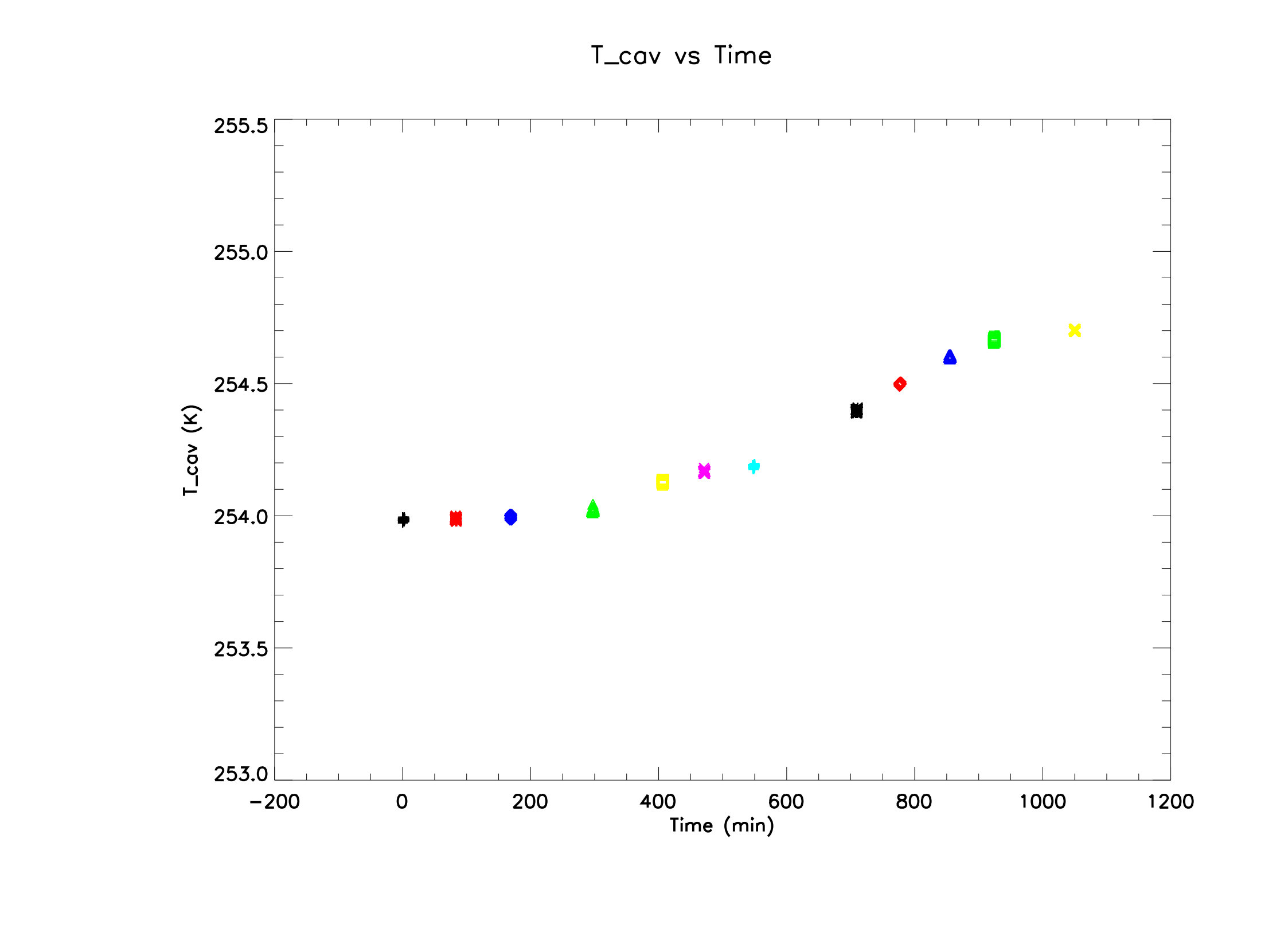

T_cav vs Scan and Collect
255.5
255.0
254.5
254.0
253.5
253.0
T_cav (K)
0
200
400
600
800
1000
1200
Collect*scan

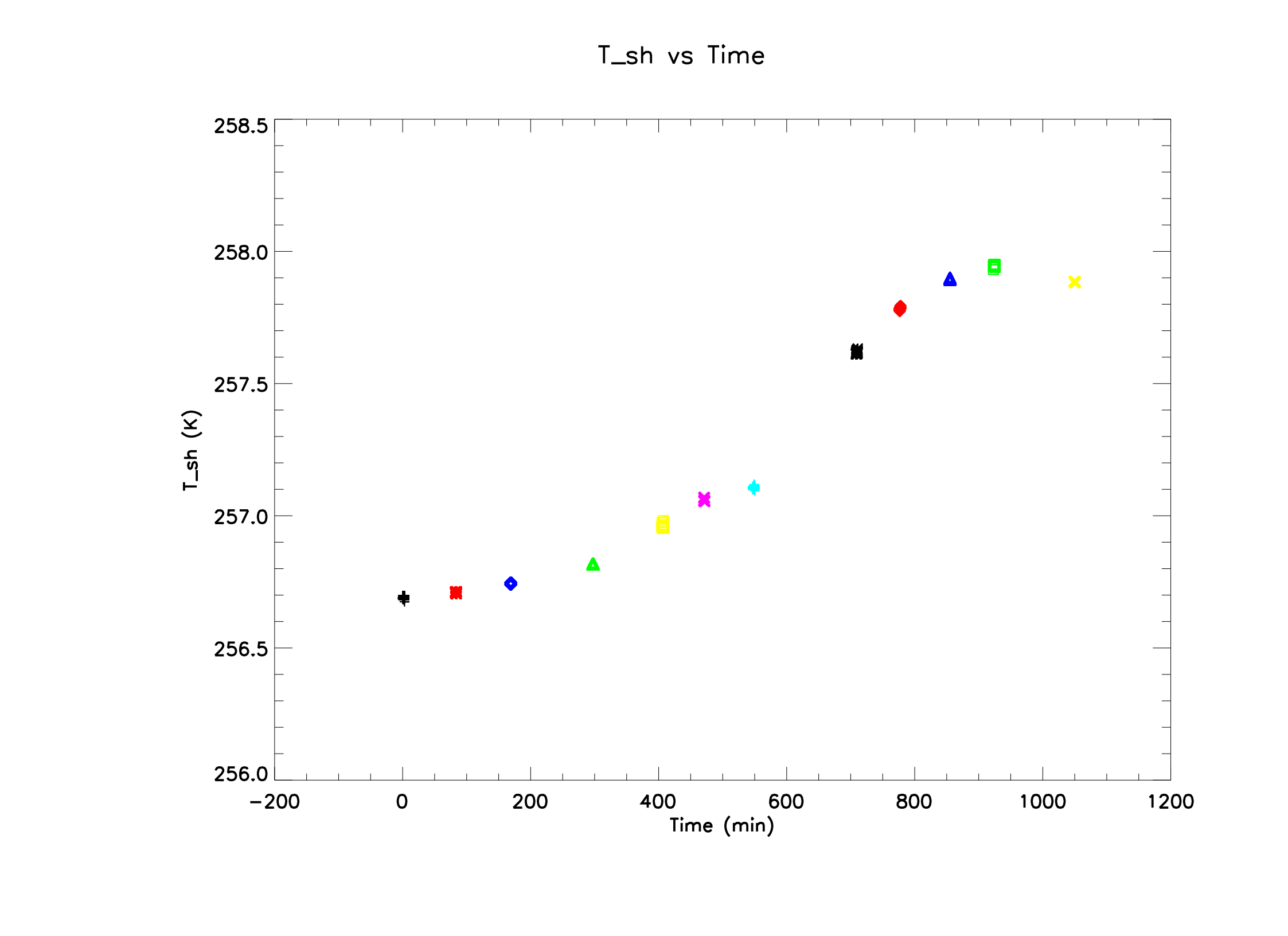

T_sh vs Scan and Collect
258.5
258.0
257.5
257.0
256.5
256.0
T_sh (K)
0
200
400
600
800
1000
1200
Collect*scan

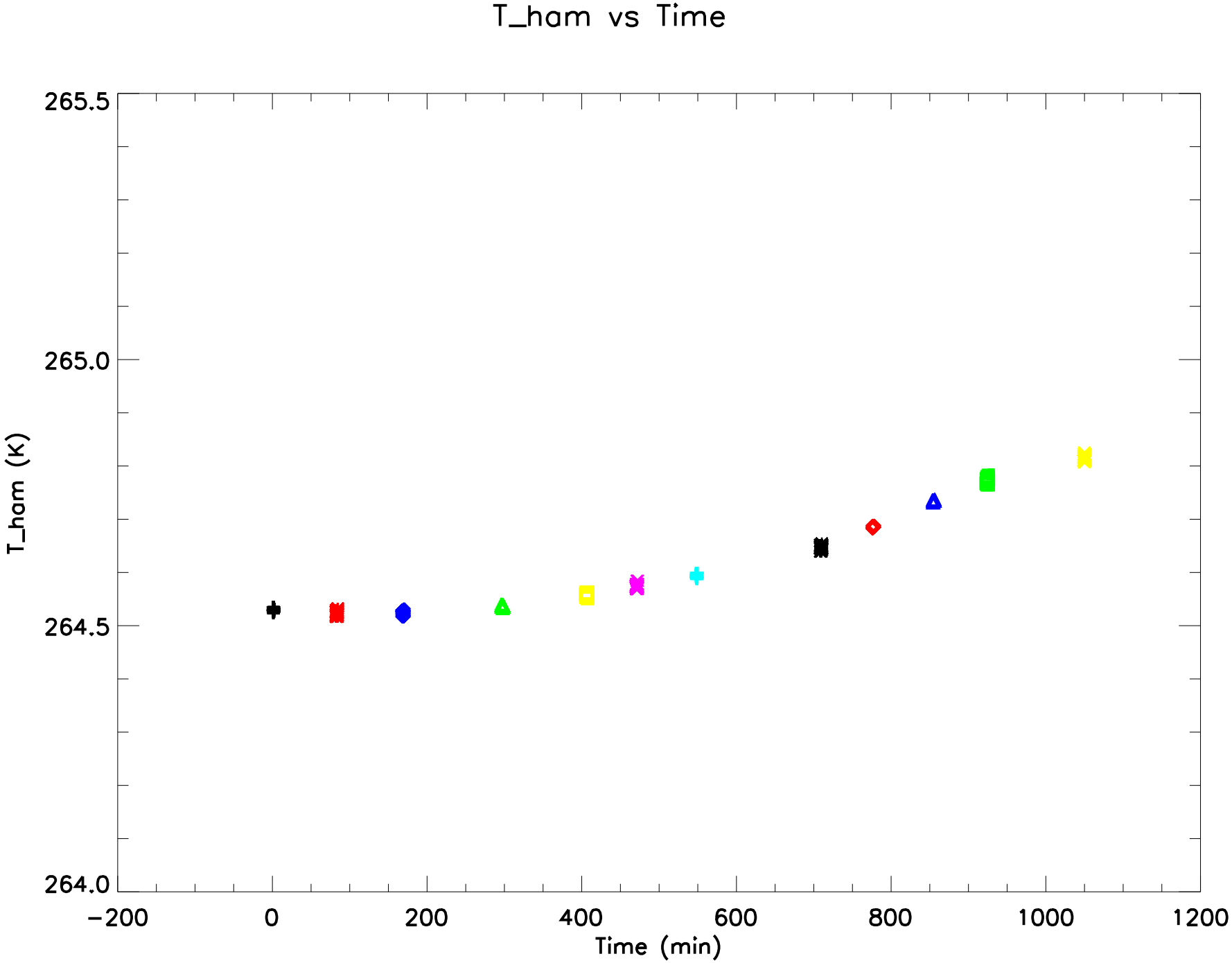

T_ham vs Scan and Collect
265.5
265.0
264.5
264.0
T_ham (K)
0
200
400
600
800
1000
1200
Collect*scan

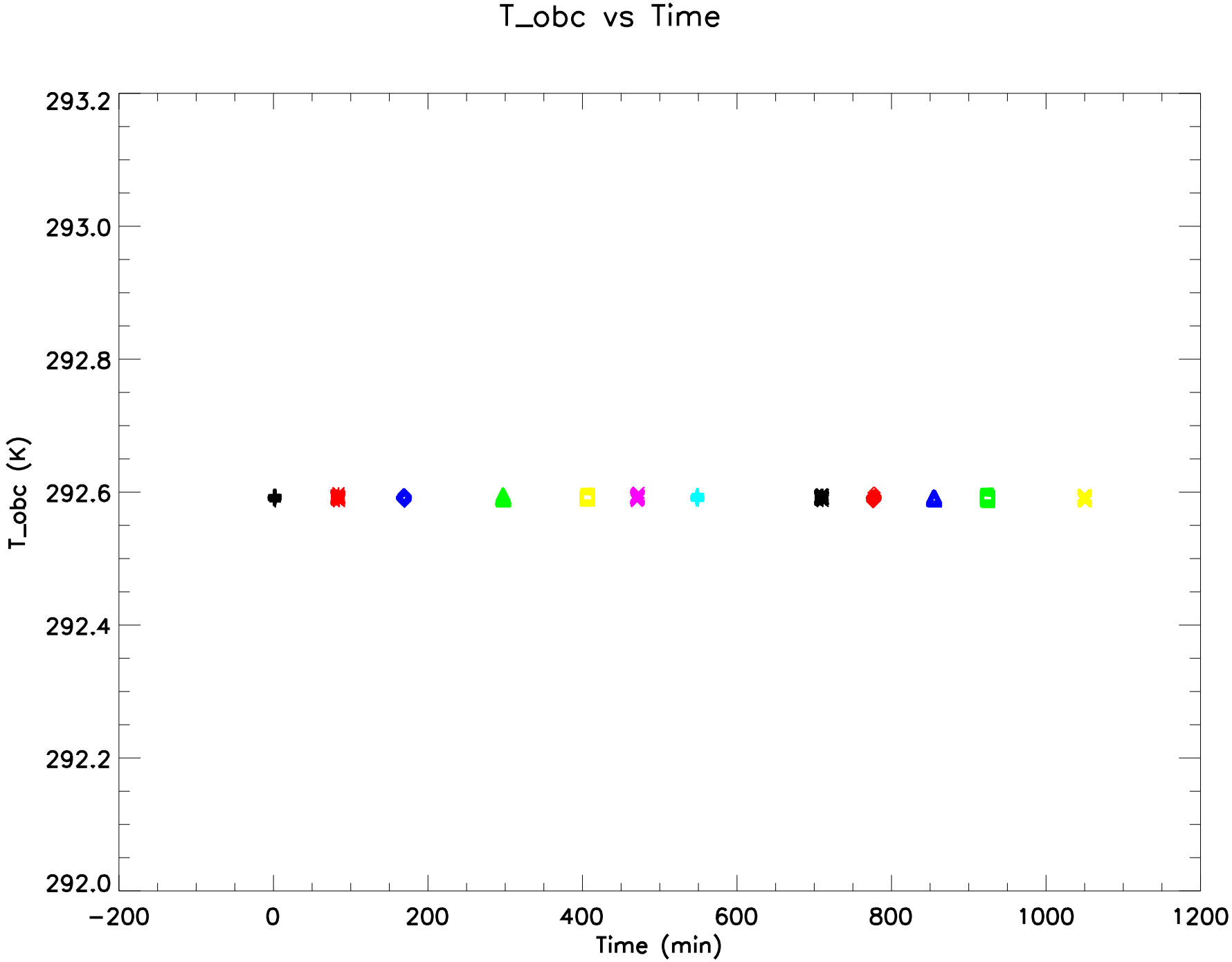

T_obc vs Scan and Collect
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
0
200
400
600
800
1000
1200
Collect*scan

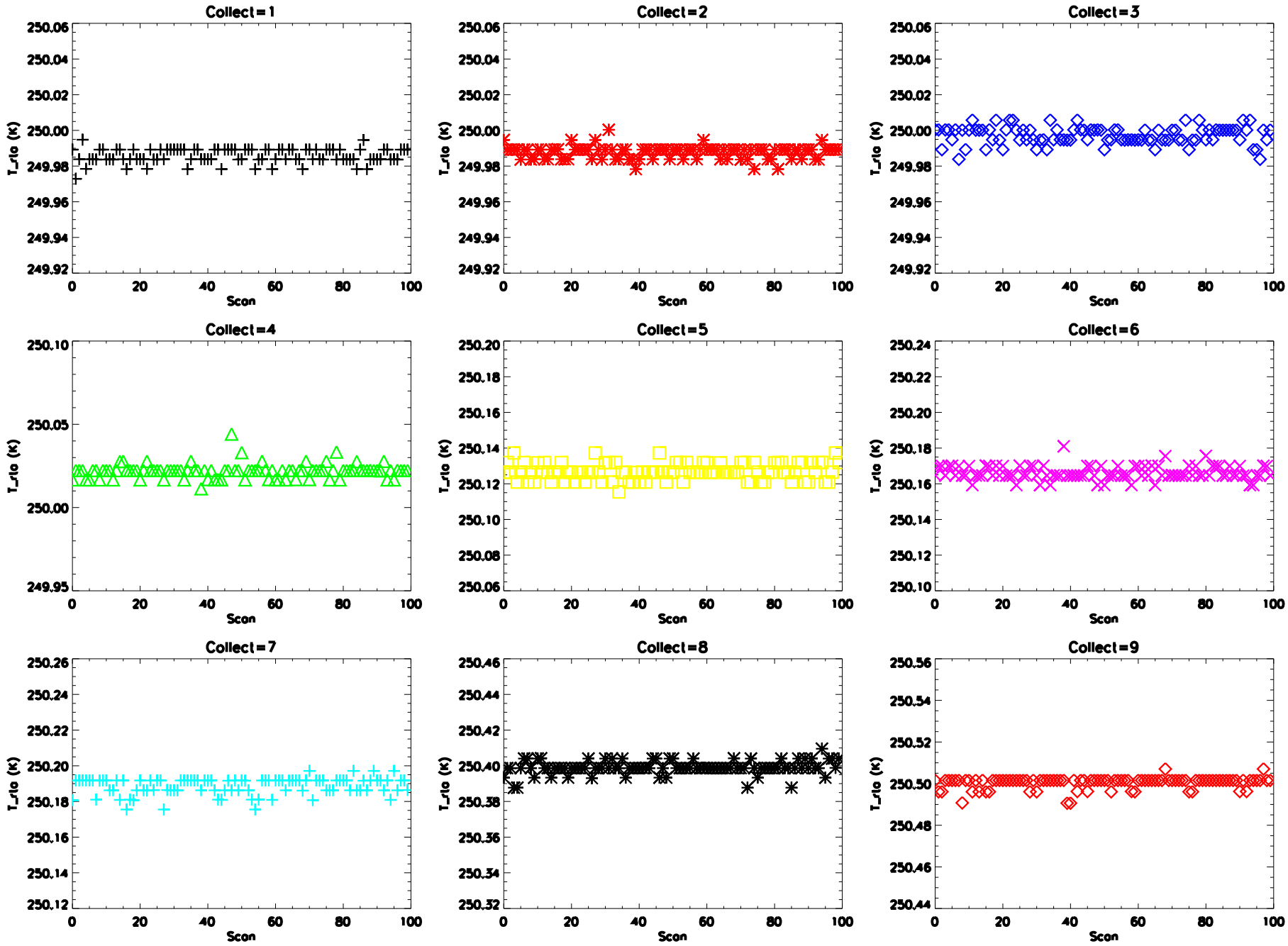

T_rta vs Time
T_rta (K)
251.5
251.0
250.5
250.0
249.5
249.0
−200
0
200
400
600
800
1000
1200
Time (min)


T_cav vs Time
255.5
255.0
254.5
254.0
253.5
253.0
T_cav (K)
−200
0
200
400
600
800
1000
1200
Time (min)

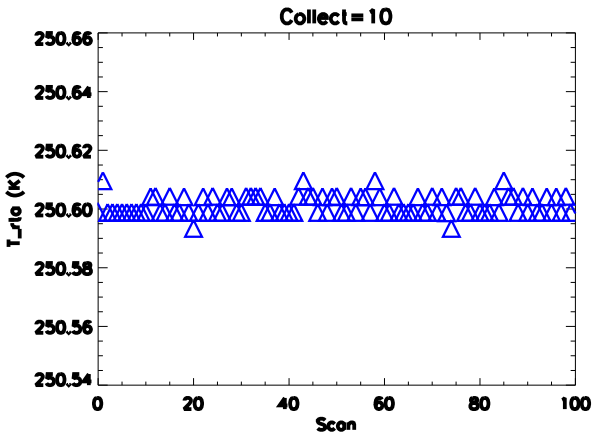

T_sh vs Time
258.5
258.0
257.5
257.0
256.5
256.0
T_sh (K)
−200
0
200
400
600
800
1000
1200
Time (min)

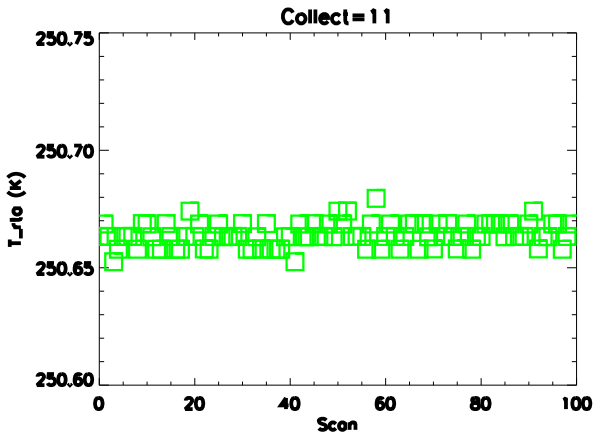

T_ham vs Time
265.5
265.0
264.5
264.0
T_ham (K)
−200
0
200
400
600
800
1000
1200
Time (min)

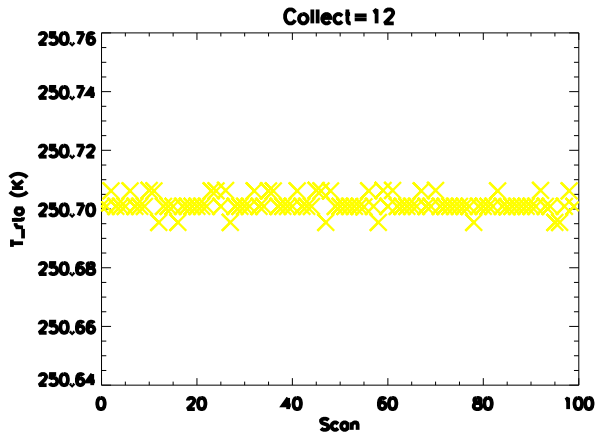

T_obc vs Time
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
−200
0
200
400
600
800
1000
1200
Time (min)


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

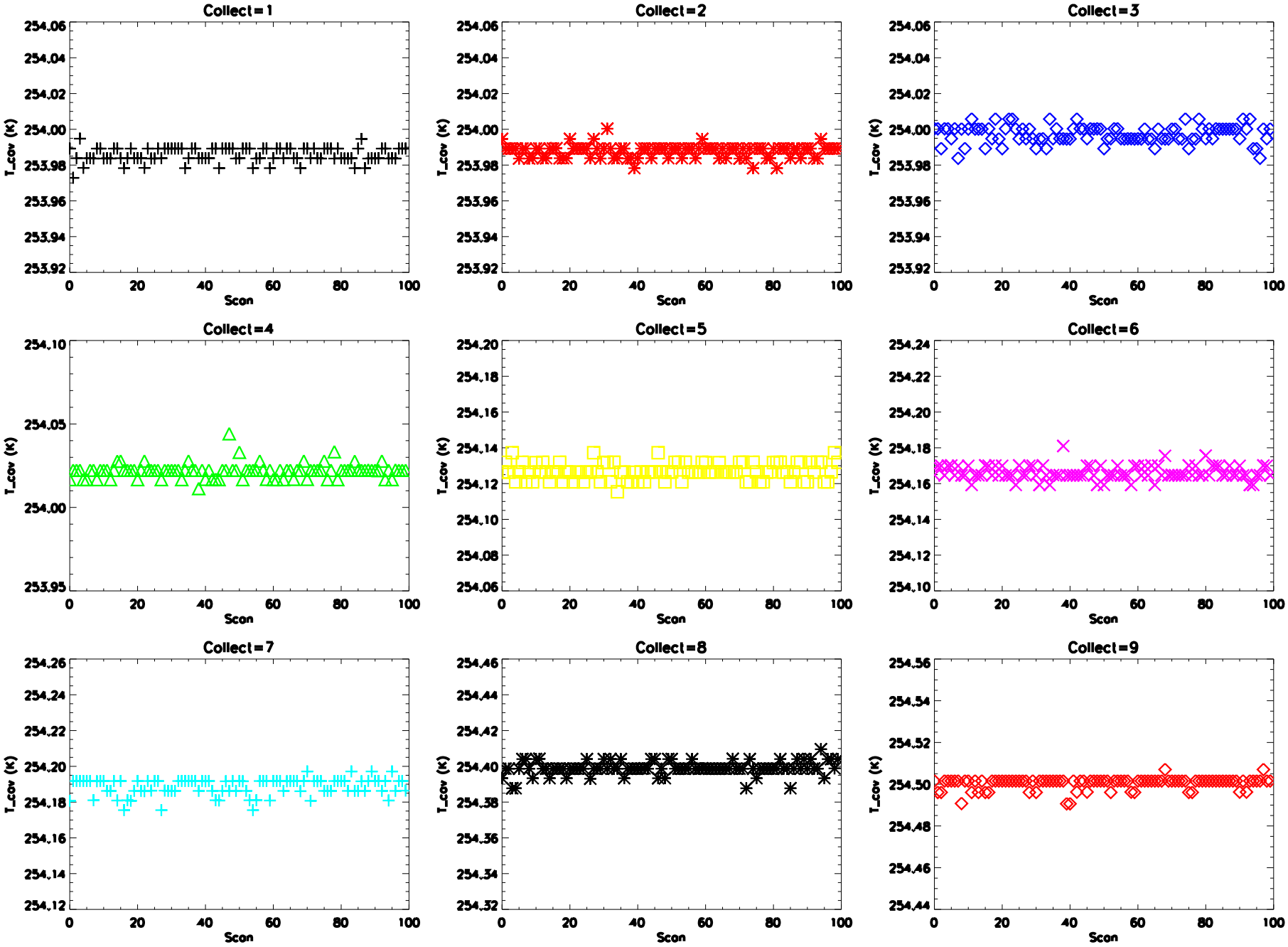
T_rta vs Scan


Collect = 10
250.66
250.64
250.62
250.60
250.58
250.56
250.54
T_rta (K)
0
20
40
60
80
100
Scan

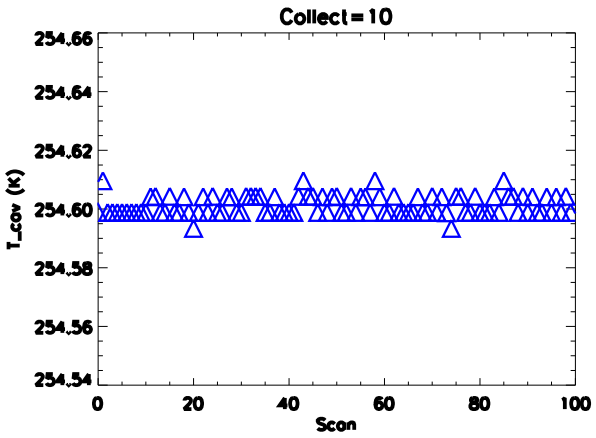

Collect = 11
250.75
250.70
250.65
250.60
T_rta (K)
0
20
40
60
80
100
Scan

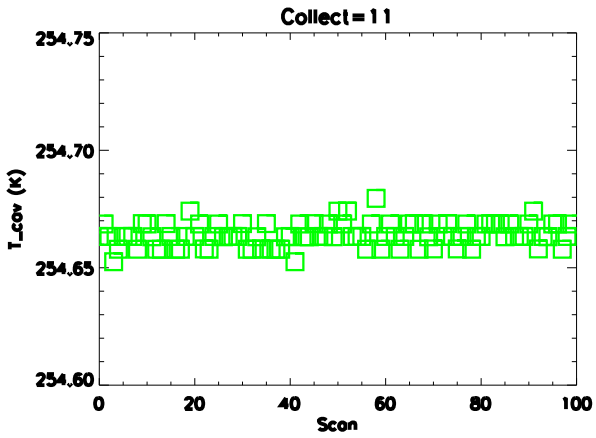

Collect = 12
250.76
250.74
250.72
250.70
250.68
250.66
250.64
T_rta (K)
0
20
40
60
80
100
Scan

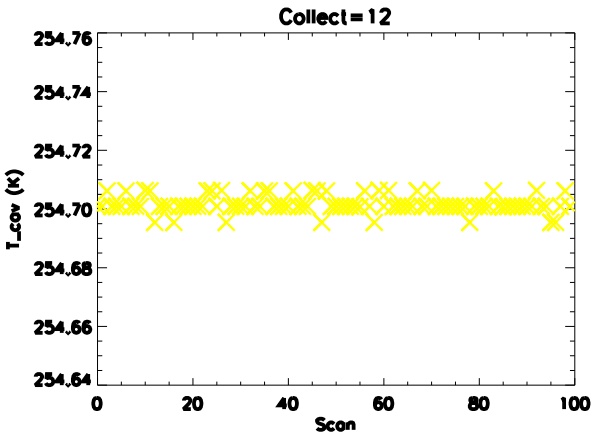
T_cav vs Scan

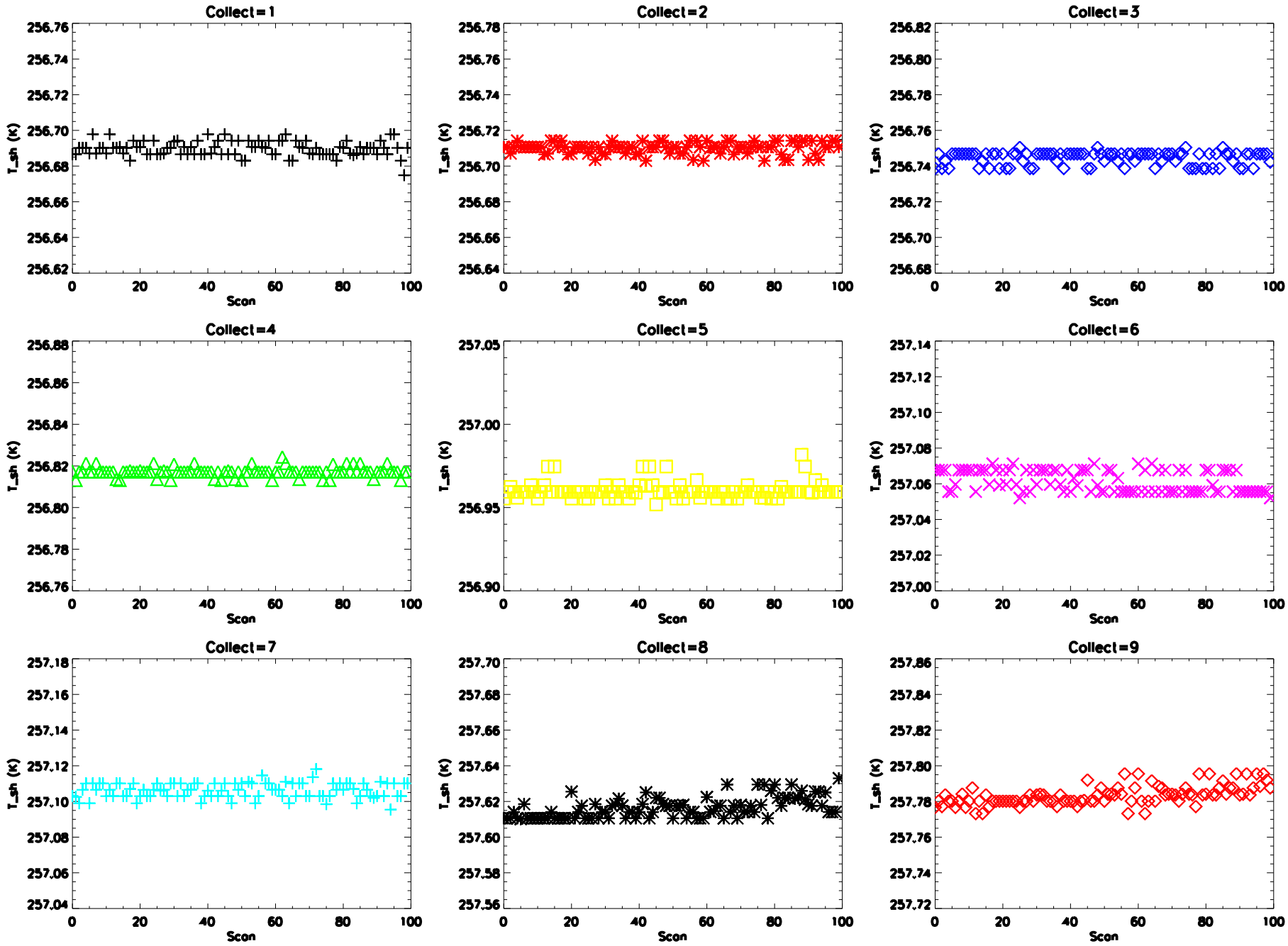

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_cav (K)
Scan

T_cav vs Scan

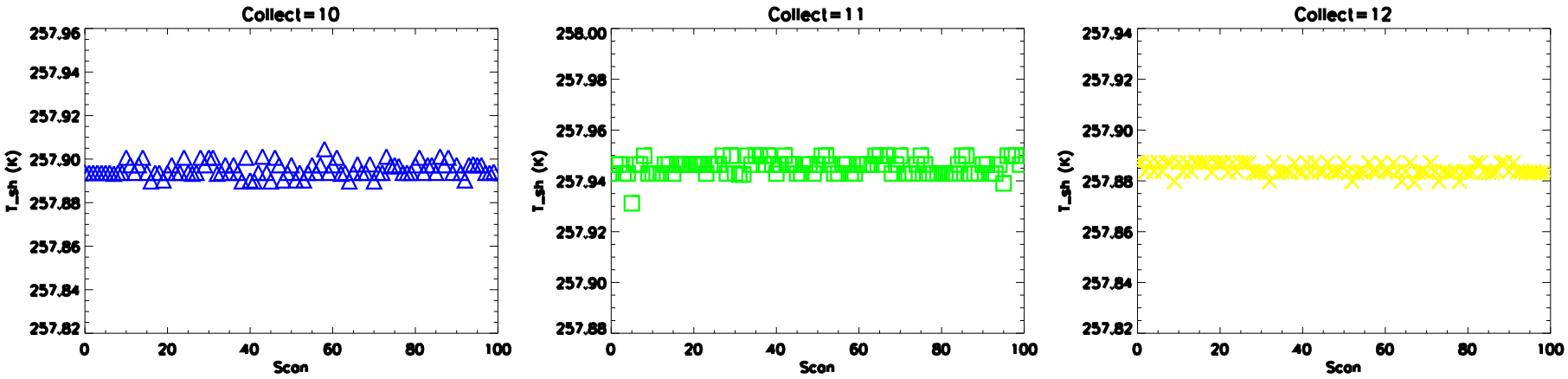

Collect = 10
T_cav (K)
254.66
254.64
254.62
254.60
254.58
254.56
254.54
0
20
40
60
80
100
Scan


Collect = 11
T_cav (K)
254.75
254.70
254.65
254.60
0
20
40
60
80
100
Scan

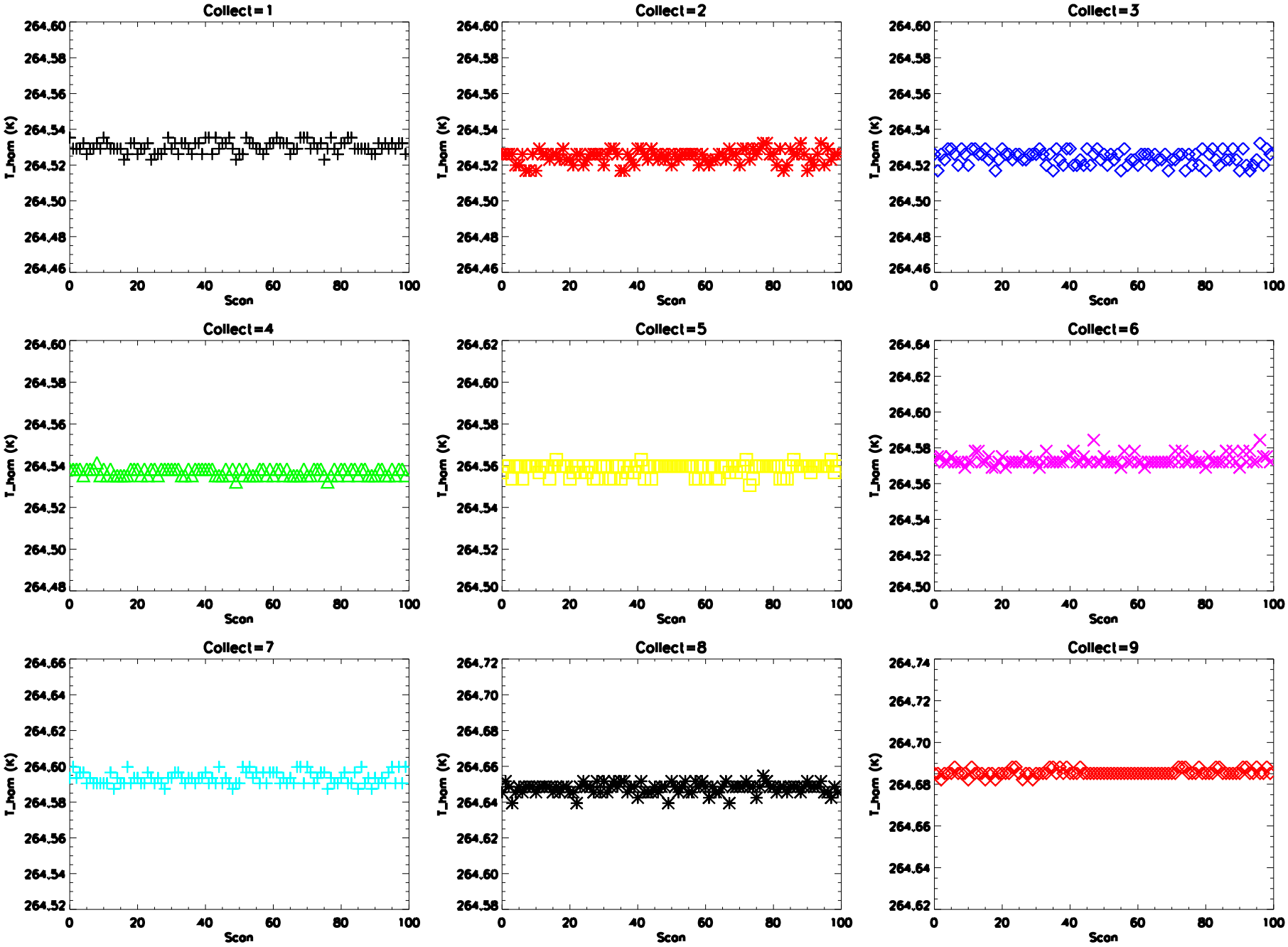

Collect = 12
T_cav (K)
254.76
254.74
254.72
254.70
254.68
254.66
254.64
0
20
40
60
80
100
Scan


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

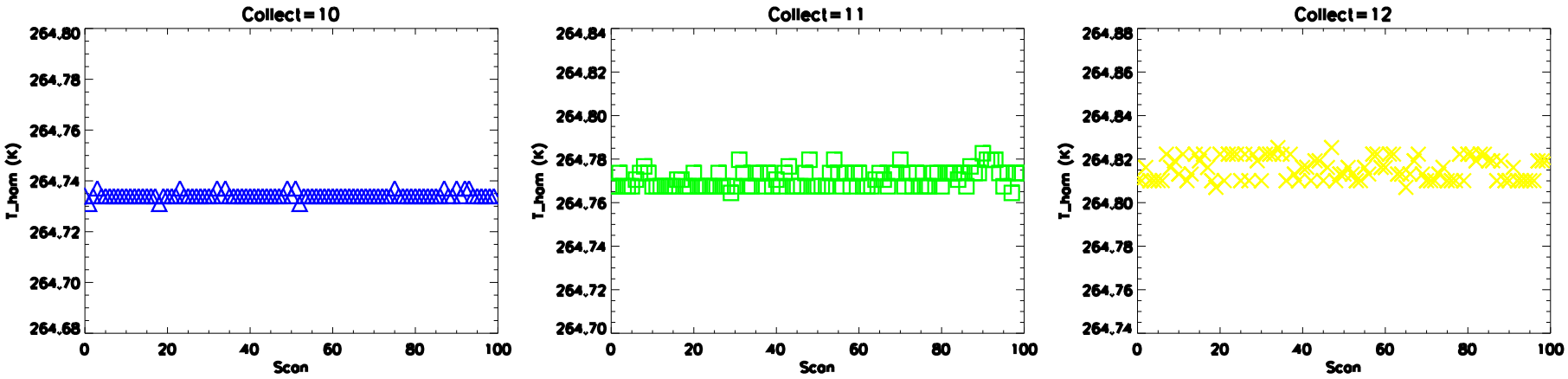
T_sh vs Scan


Collect = 10
T_sh (K)
257.96
257.94
257.92
257.90
257.88
257.86
257.84
257.82
0
20
40
60
80
100
Scan
Collect = 11
T_sh (K)
258.00
257.98
257.96
257.94
257.92
257.90
257.88
0
20
40
60
80
100
Scan
Collect = 12
T_sh (K)
257.94
257.92
257.90
257.88
257.86
257.84
257.82
0
20
40
60
80
100
Scan

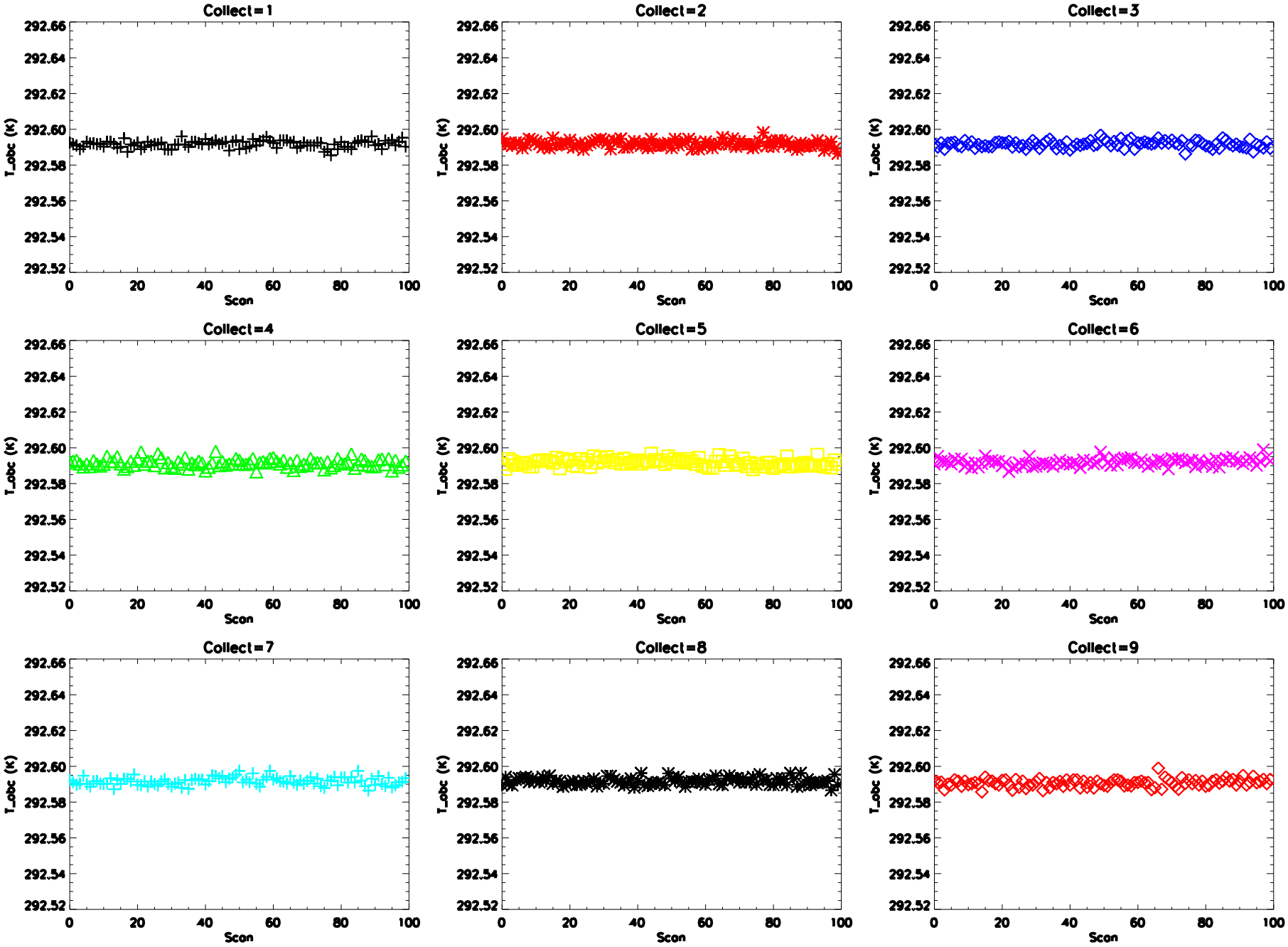
T_ham vs Scan


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

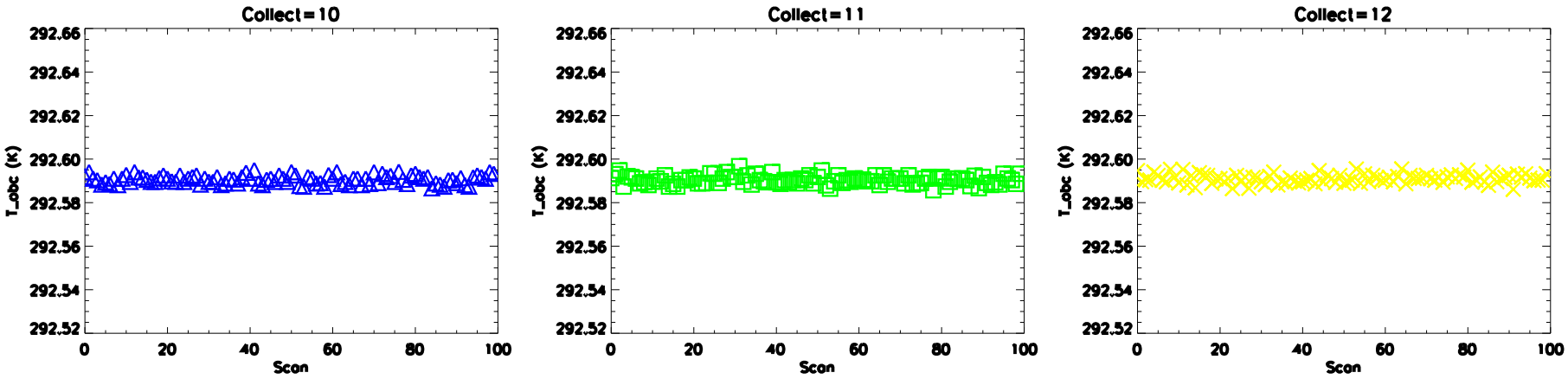
T_ham vs Scan

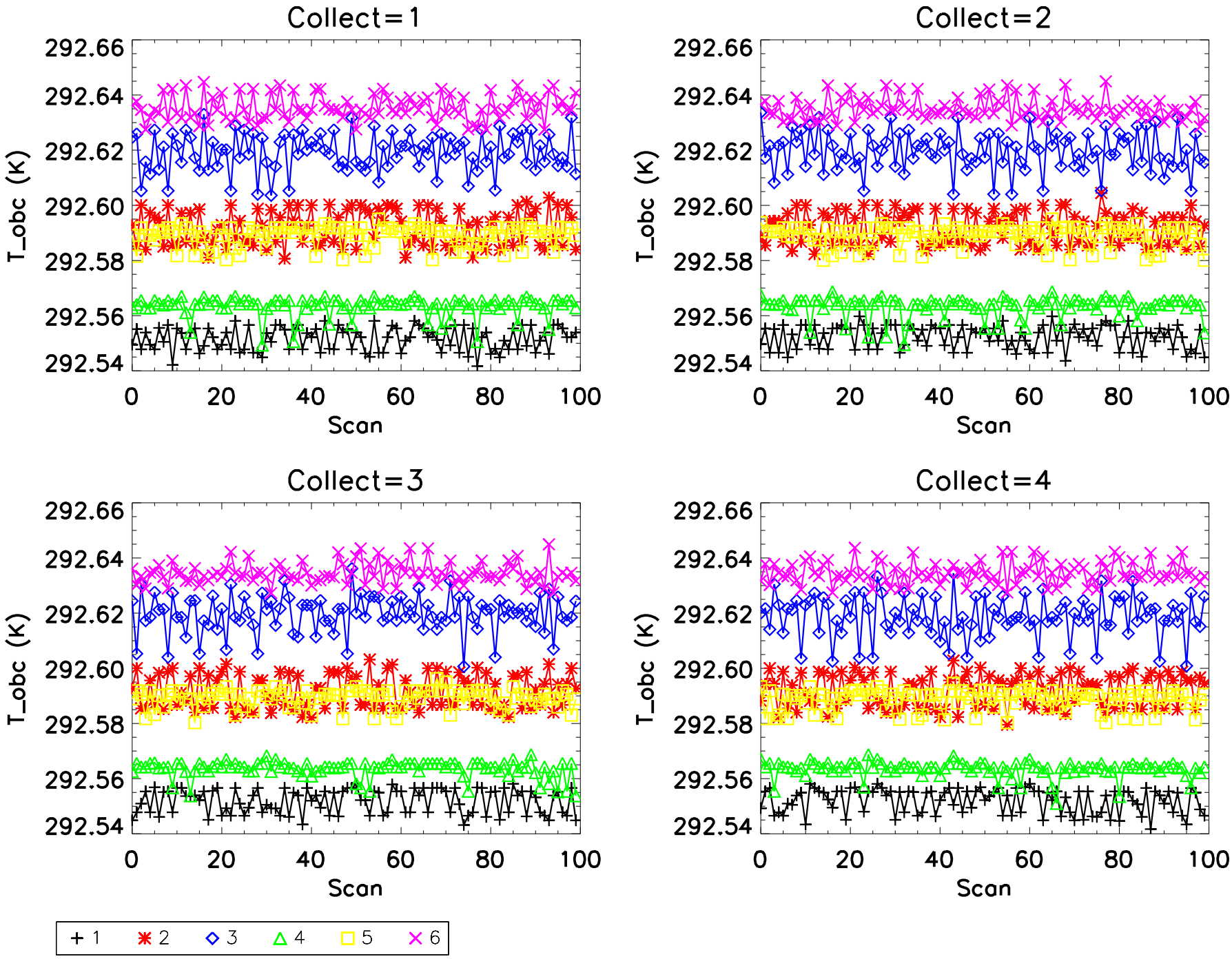

Collect = 10
T_ham (K)
264.80
264.78
264.76
264.74
264.72
264.70
264.68
0
20
40
60
80
100
Scan
Collect = 11
T_ham (K)
264.84
264.82
264.80
264.78
264.76
264.74
264.72
264.70
0
20
40
60
80
100
Scan
Collect = 12
T_ham (K)
264.88
264.86
264.84
264.82
264.80
264.78
264.76
264.74
0
20
40
60
80
100
Scan

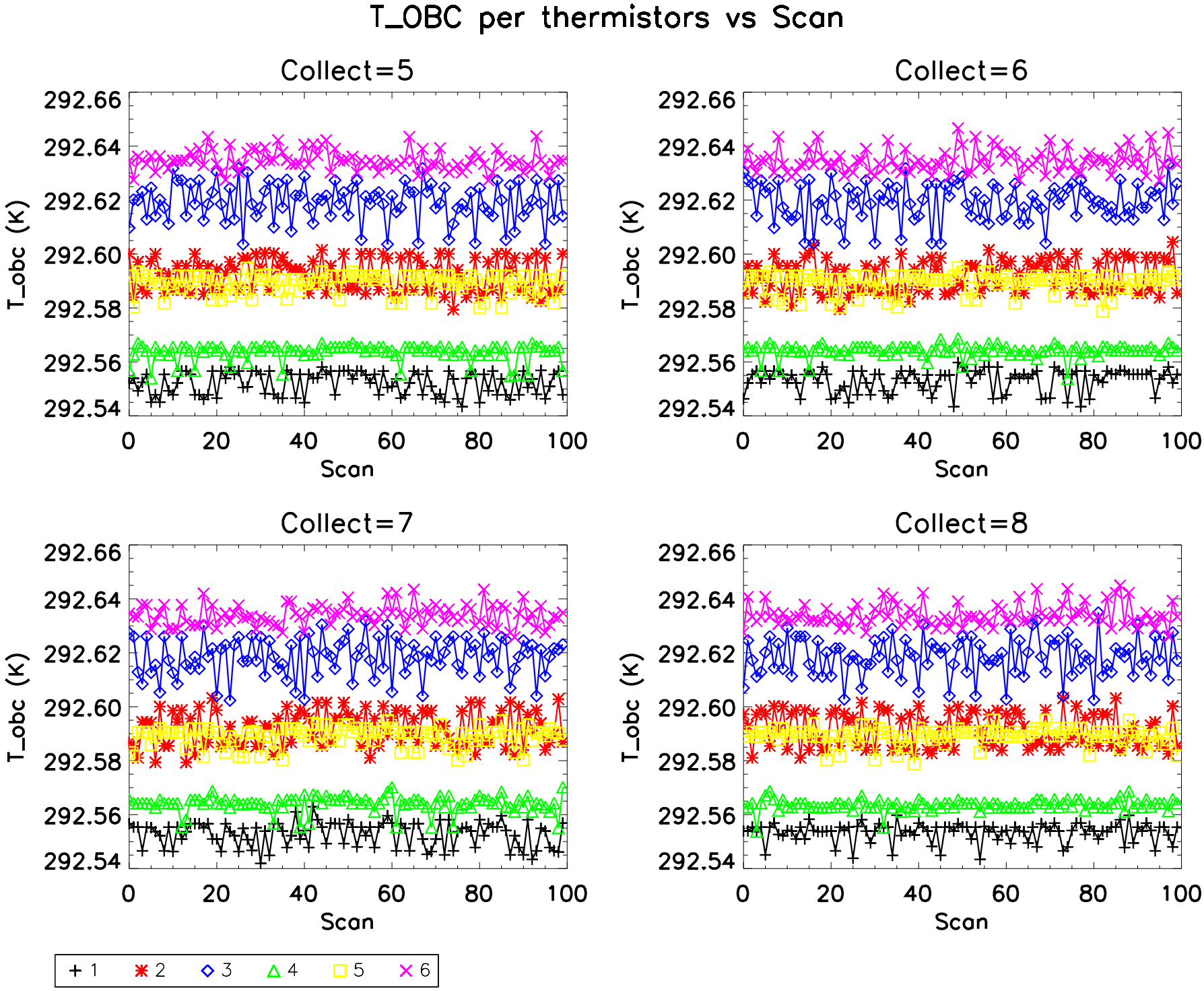
T_obc vs Scan

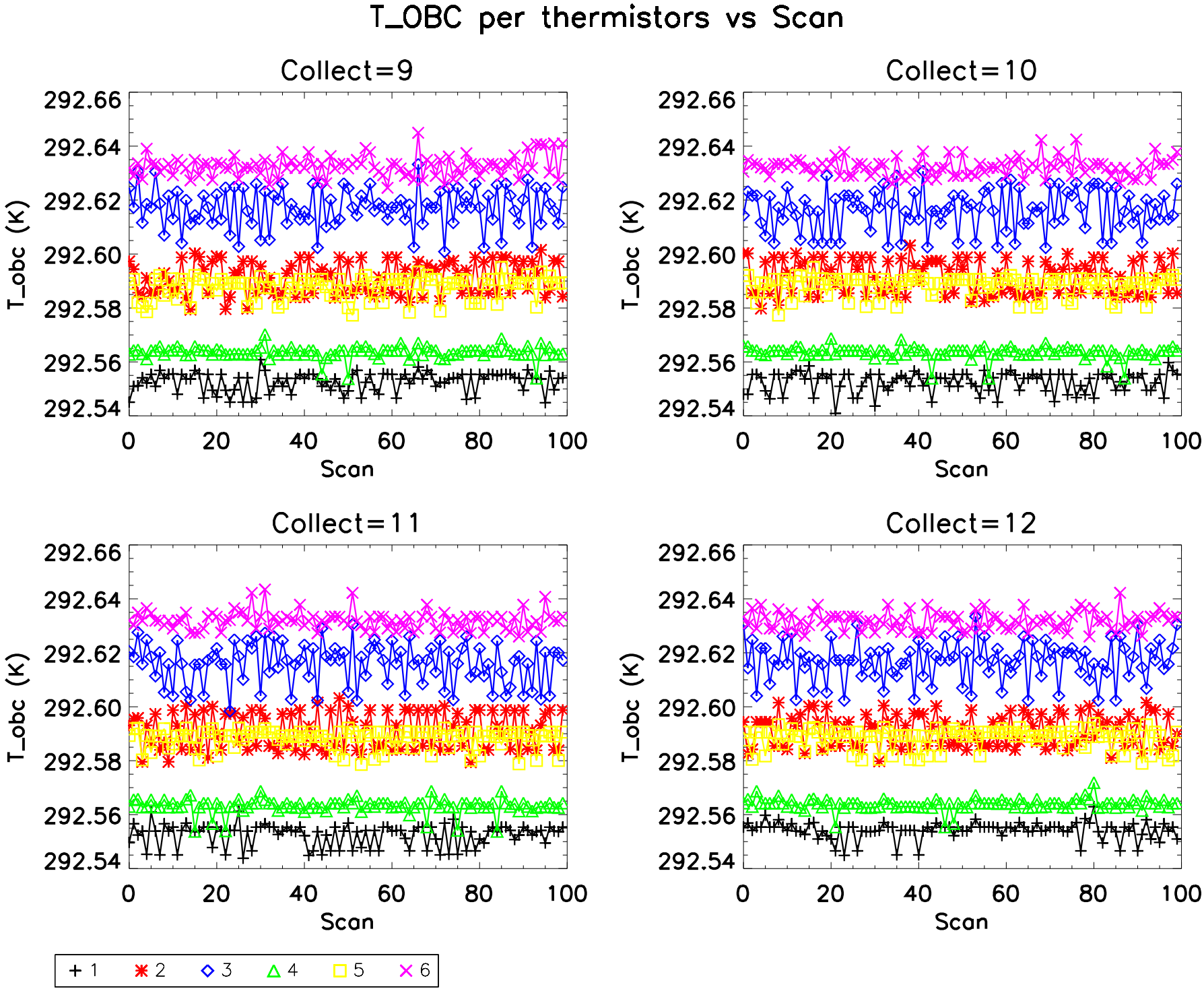

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan
292.66
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100

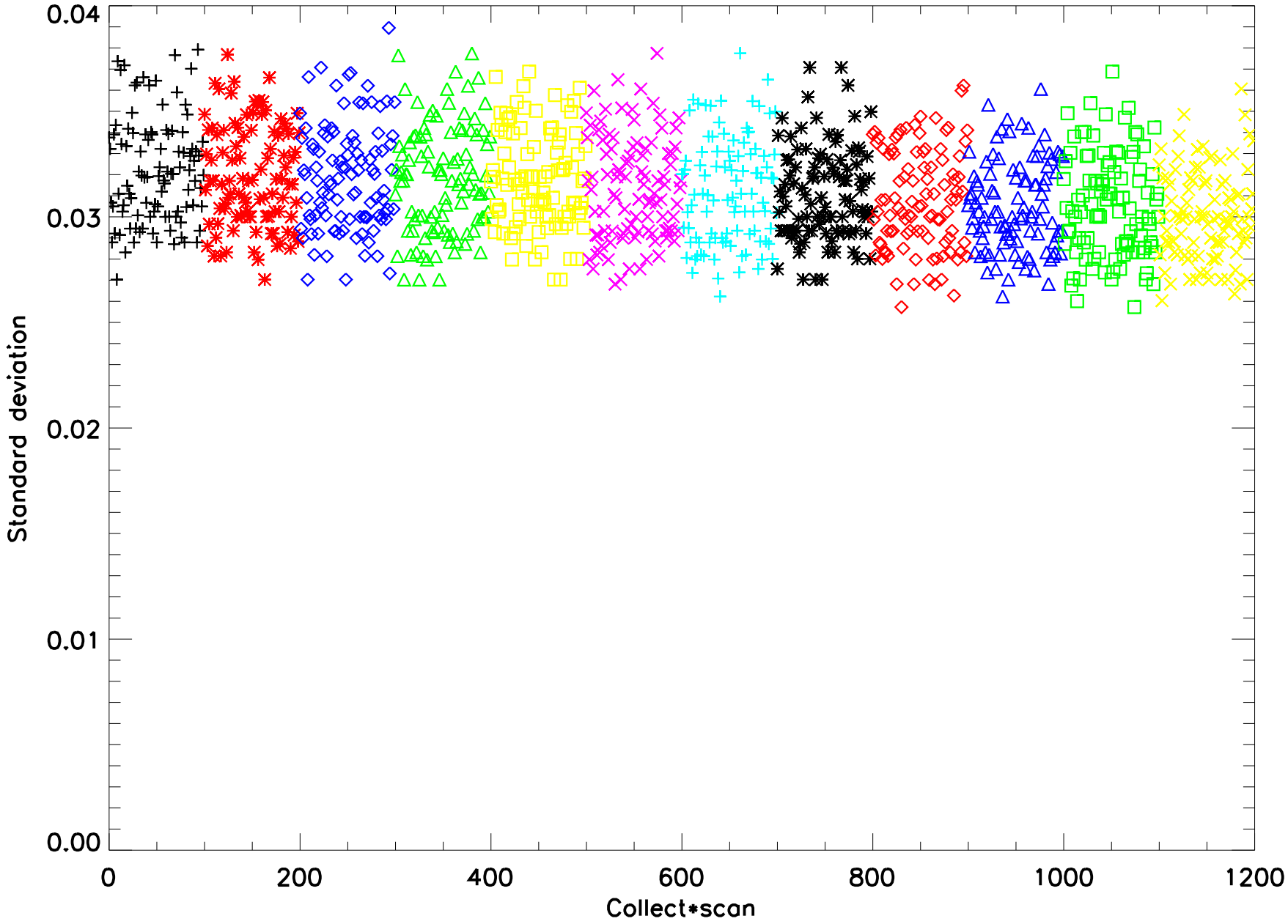
T_obc vs Scan

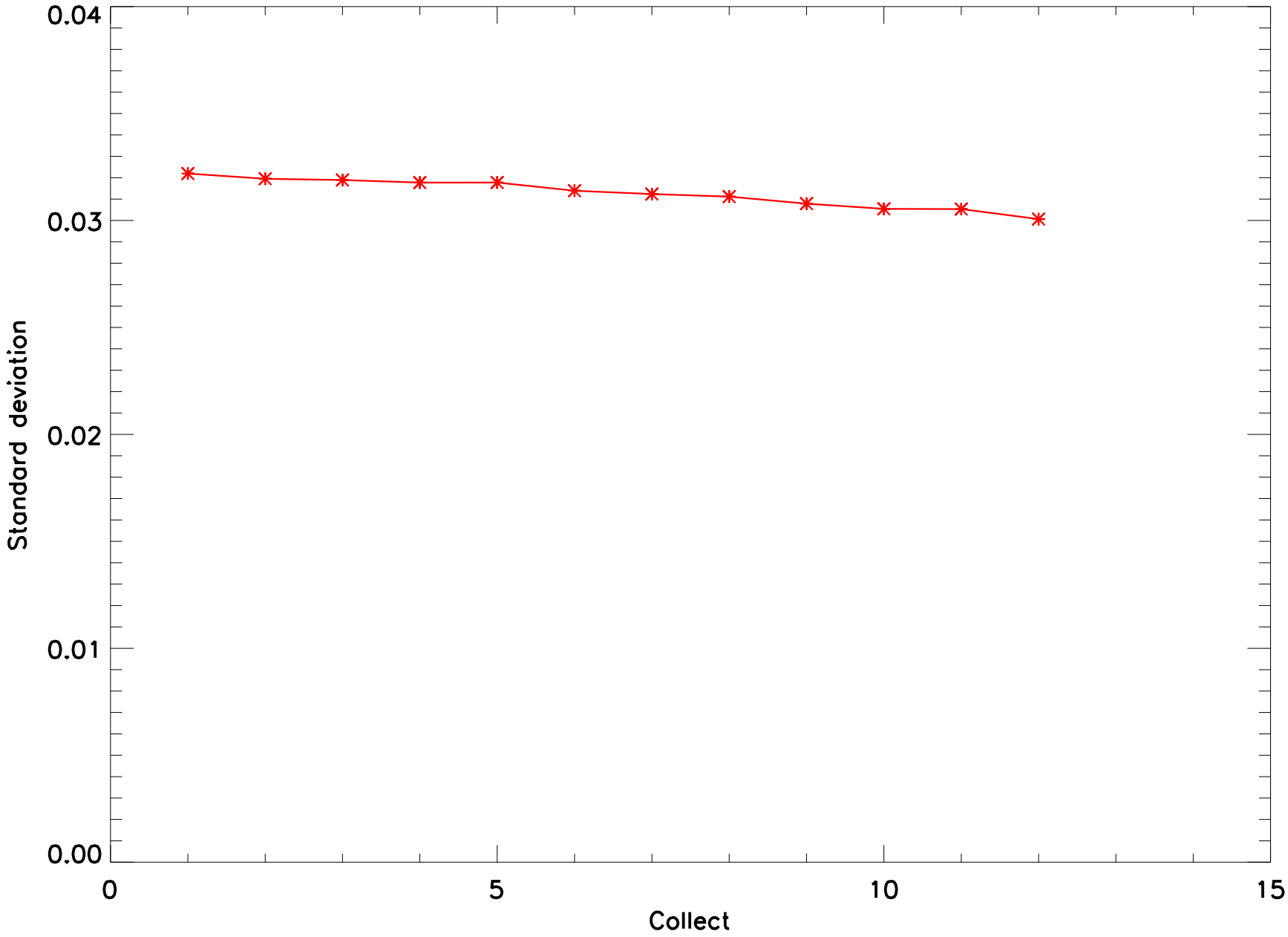

Collect = 10
Collect = 11
Collect = 12
T_obc (K)
Scan
292.66
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100

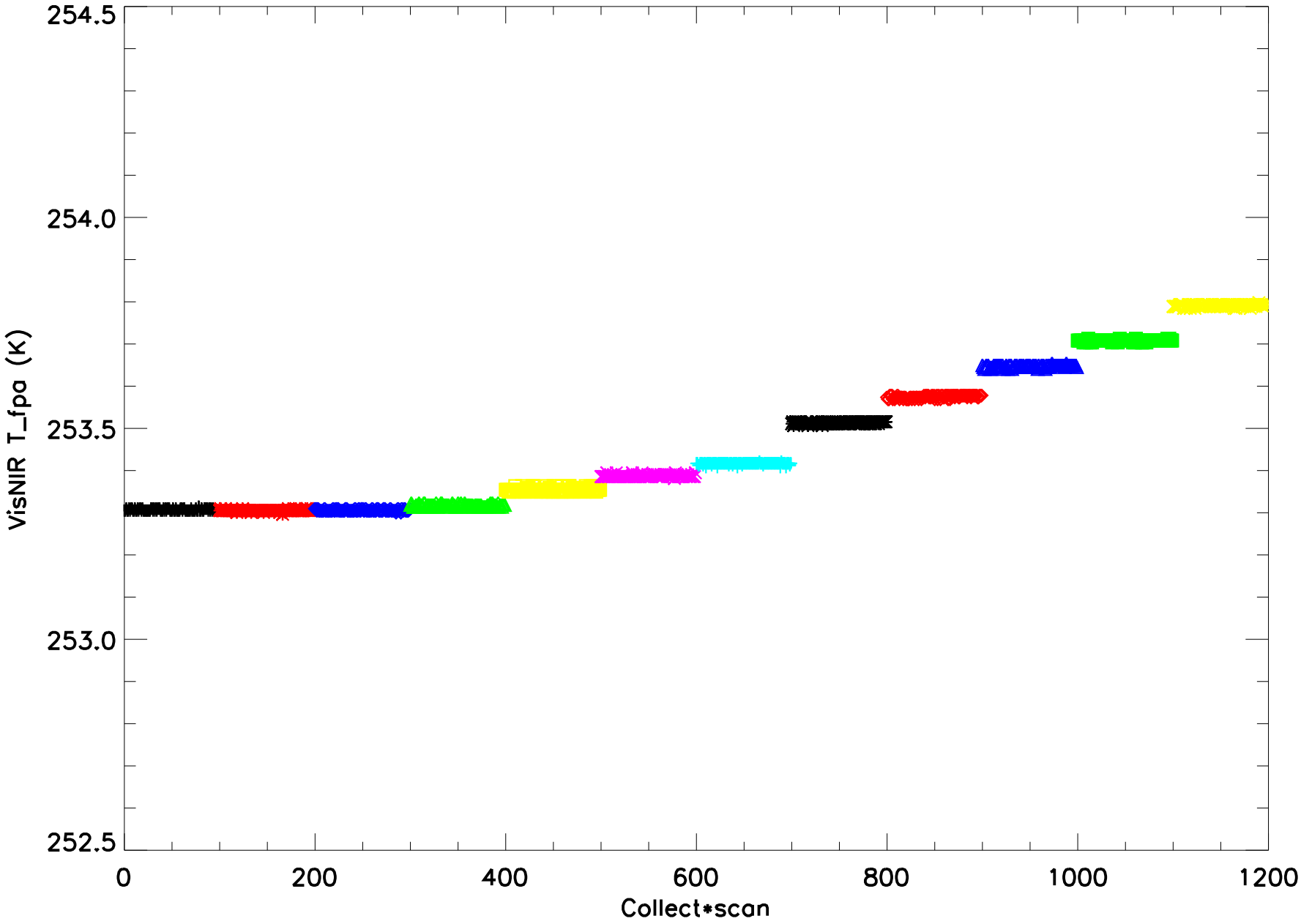

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
Scan
292.66
292.64
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
1
2
3
4
5
6

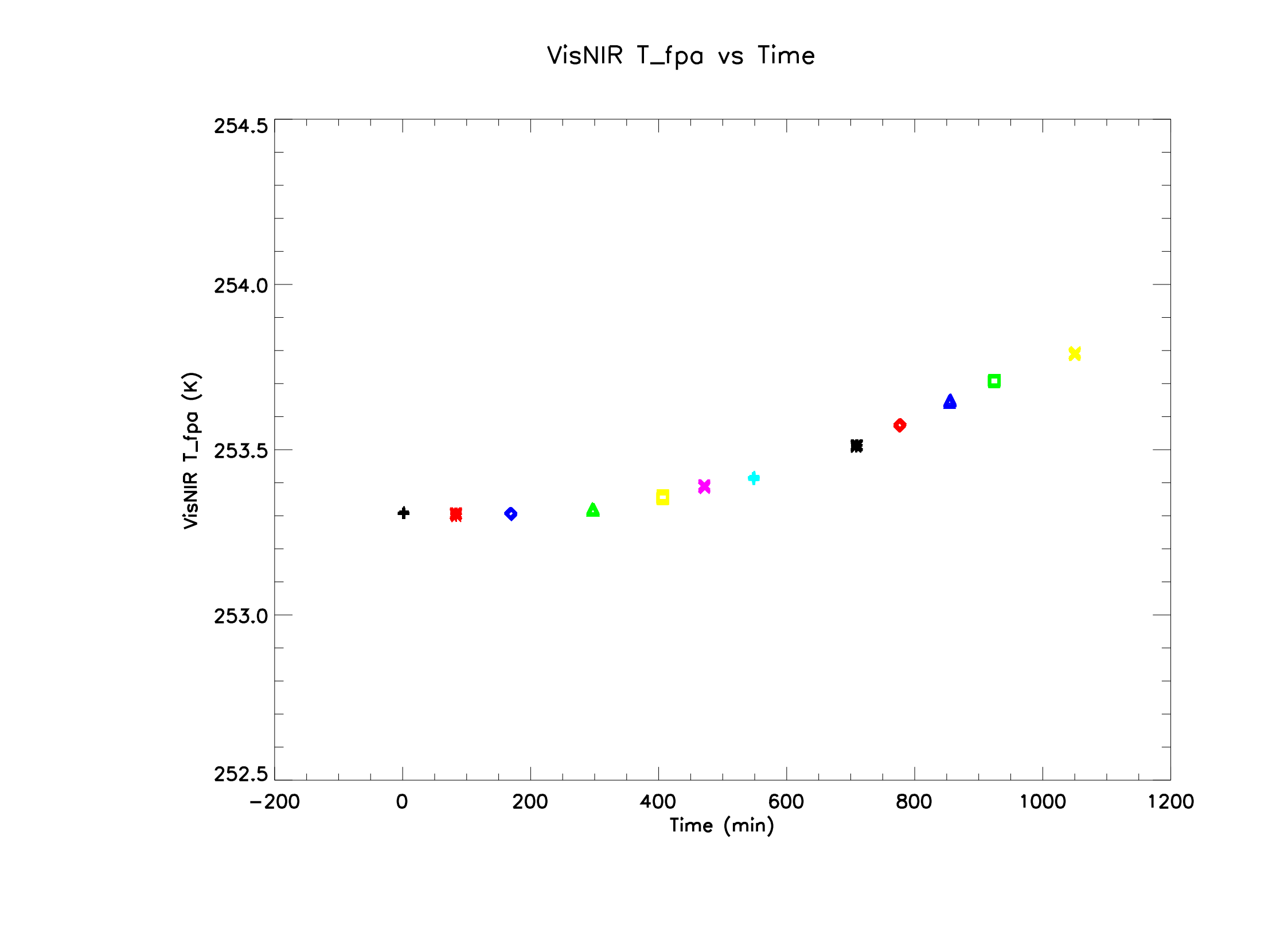

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
Scan
292.66
292.64
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
1
2
3
4
5
6

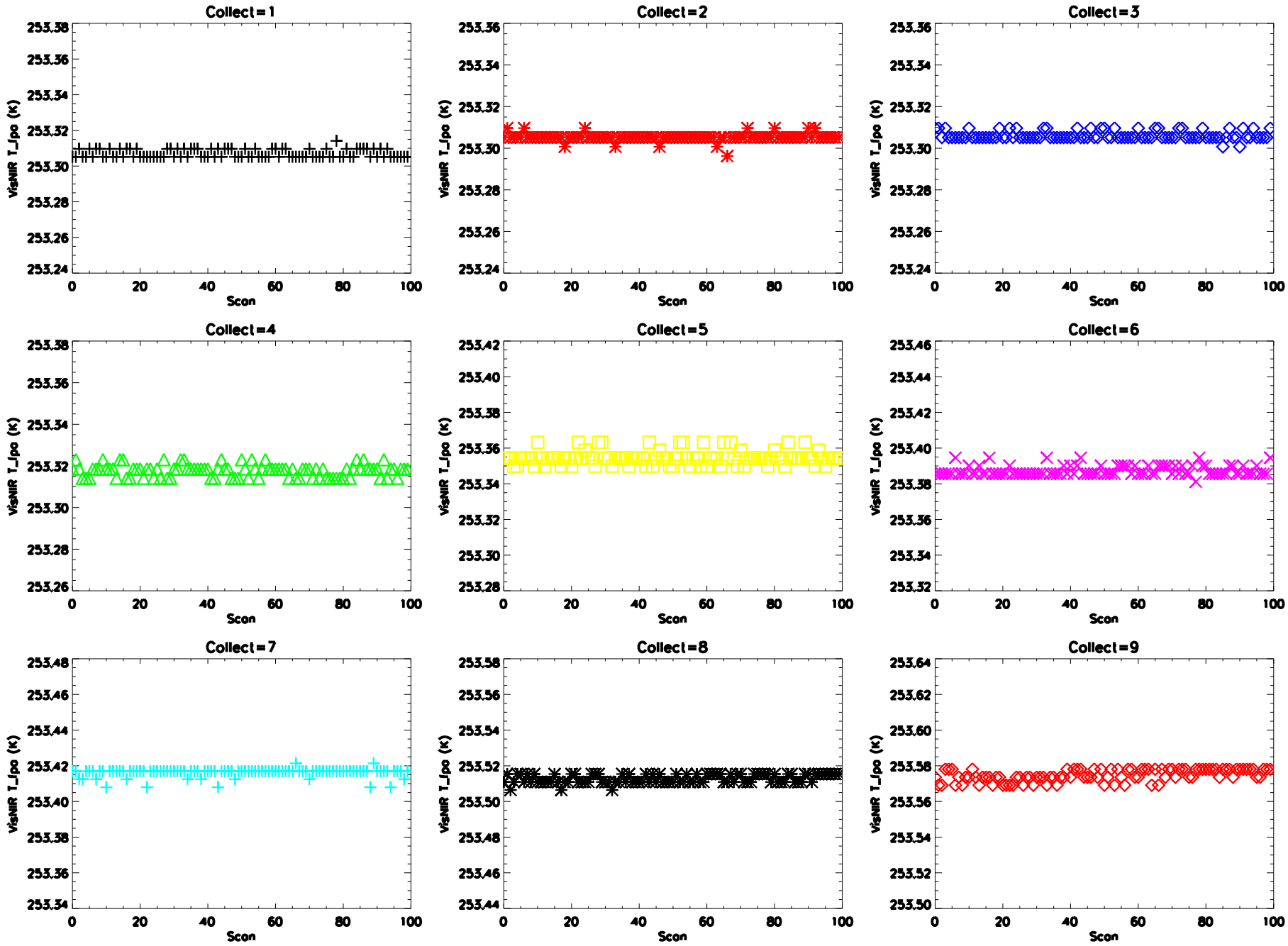

T_OBC per thermistors vs Scan
Collect=9
Collect=10
Collect=11
Collect=12
T_obc (K)
Scan
292.66
292.64
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
1
2
3
4
5
6


OBC thermistor standard deviation vs Scan and Collect
Standard deviation
0.04
0.03
0.02
0.01
0.00
0
200
400
600
800
1000
1200
Collect*scan

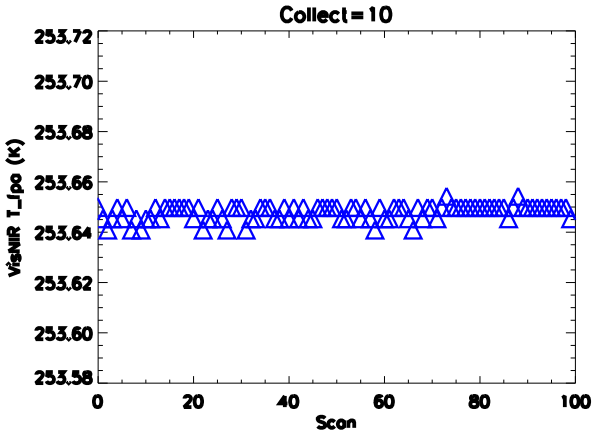

OBC thermistor standard deviation vs Collect
0.04
0.03
0.02
0.01
0.00
Standard deviation
0
5
10
15
Collect

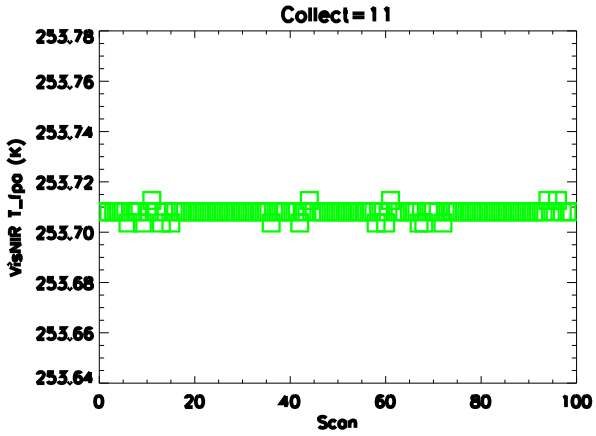

VisNIR T_fpa vs Scan and Collect
254.5
254.0
253.5
253.0
252.5
VisNIR T_fpa (K)
0
200
400
600
800
1000
1200
Collect*scan

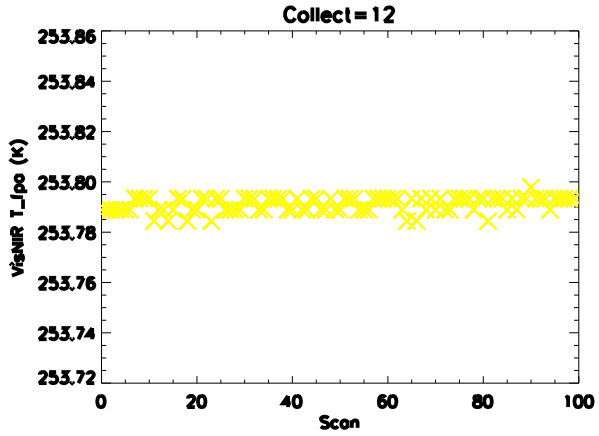

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
254.5
254.0
253.5
253.0
252.5
−200
0
200
400
600
800
1000
1200
Time (min)

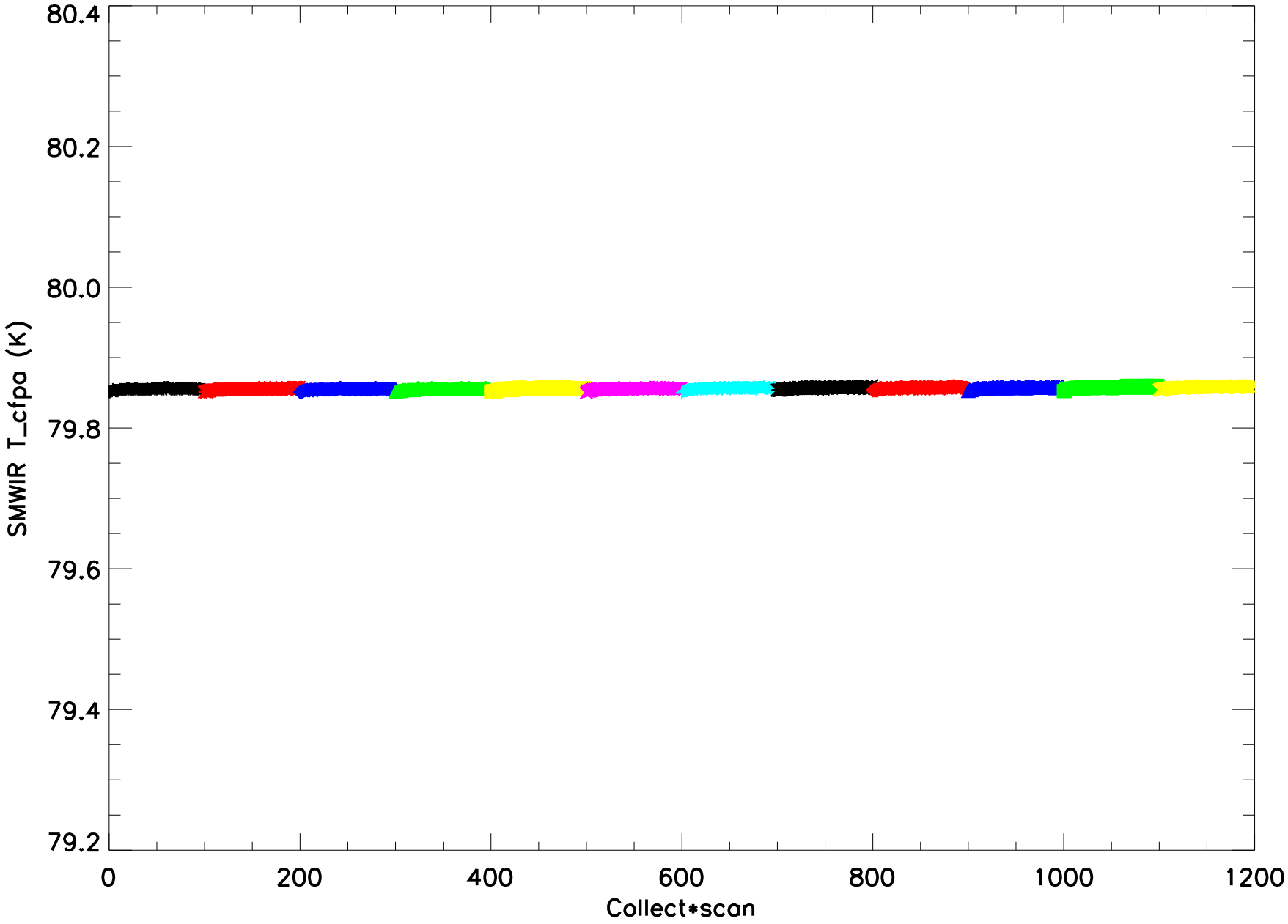

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_lpo (K)
Scan

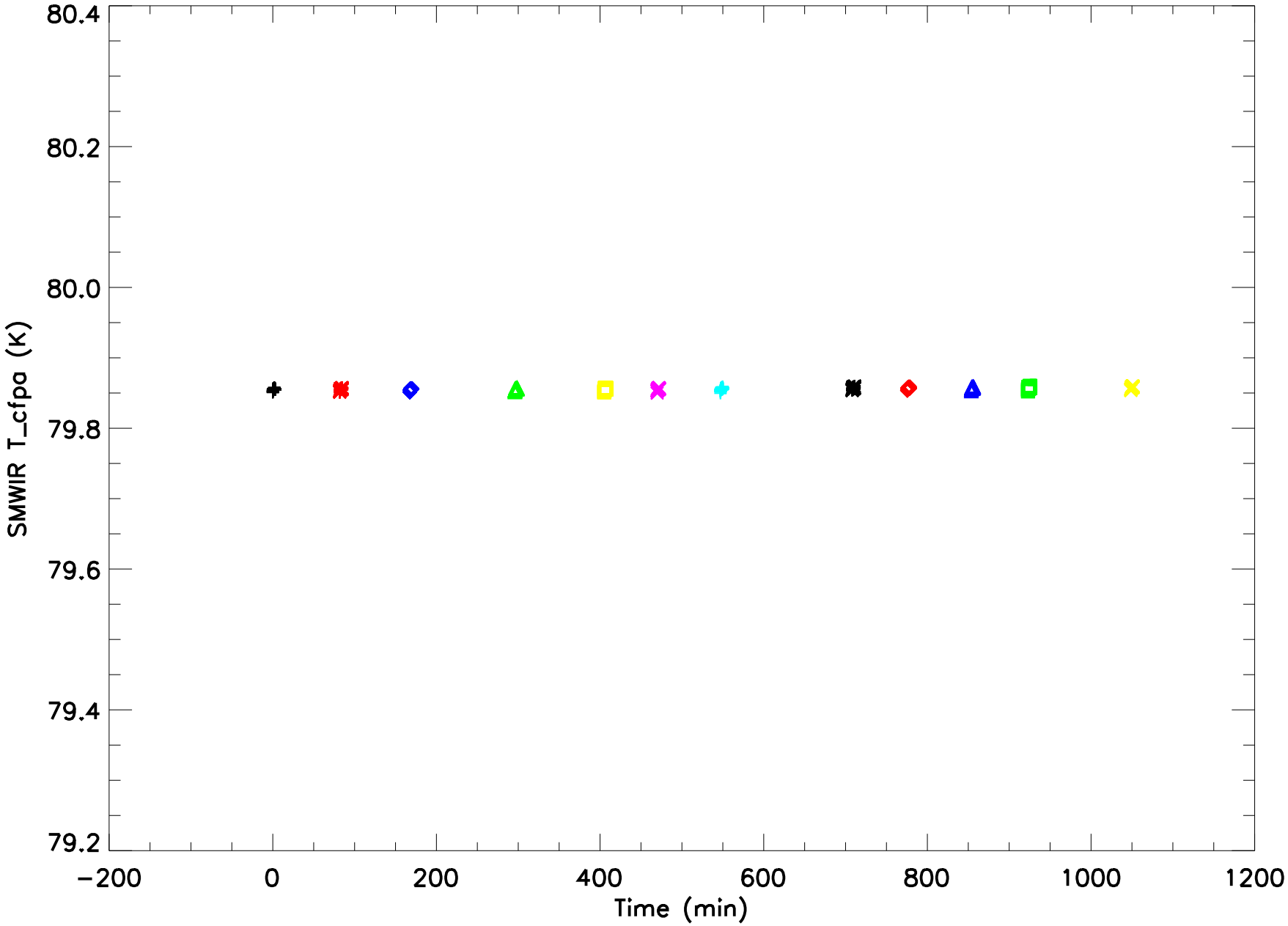
VisNIR T_fpa vs Scan

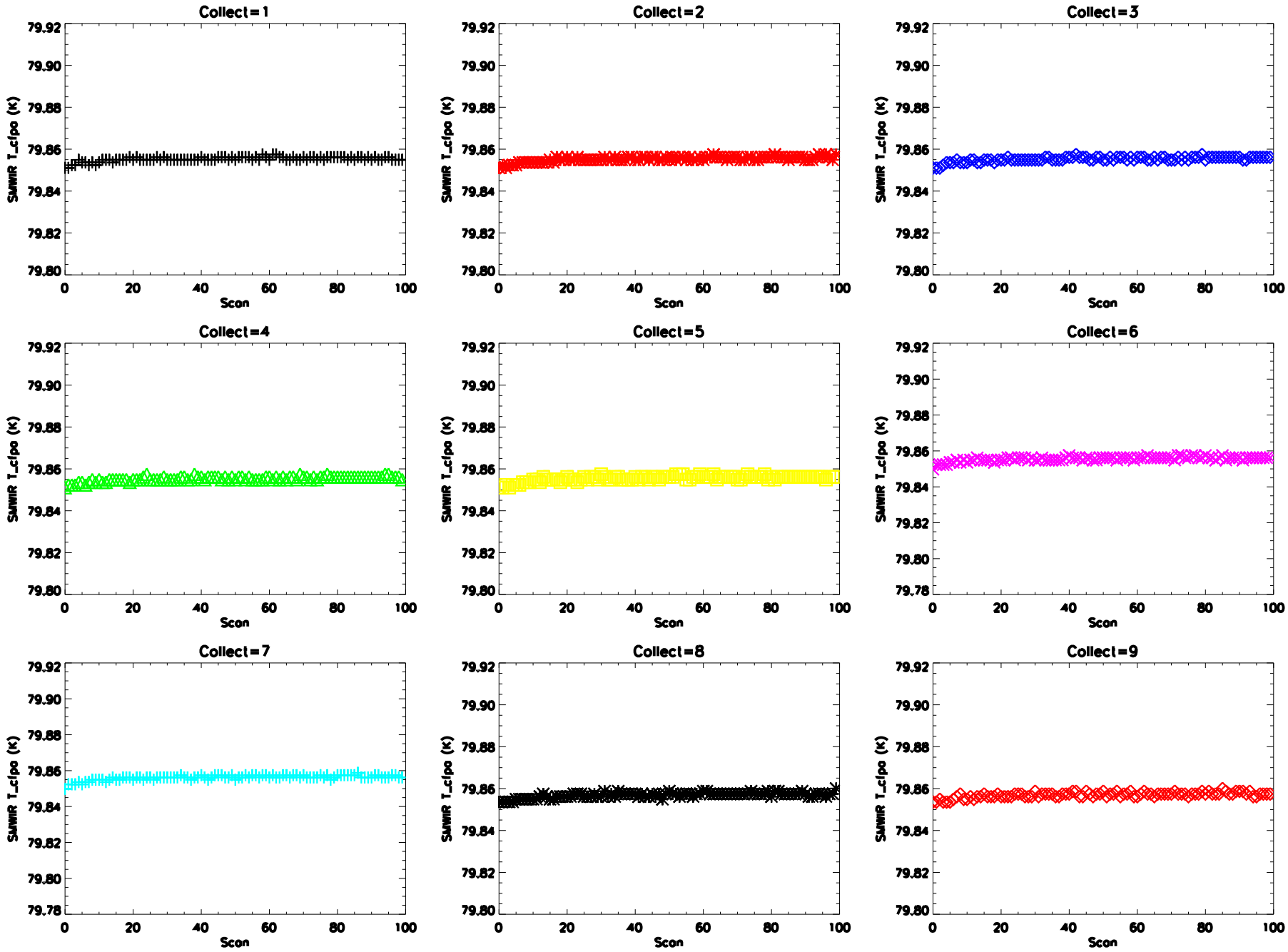




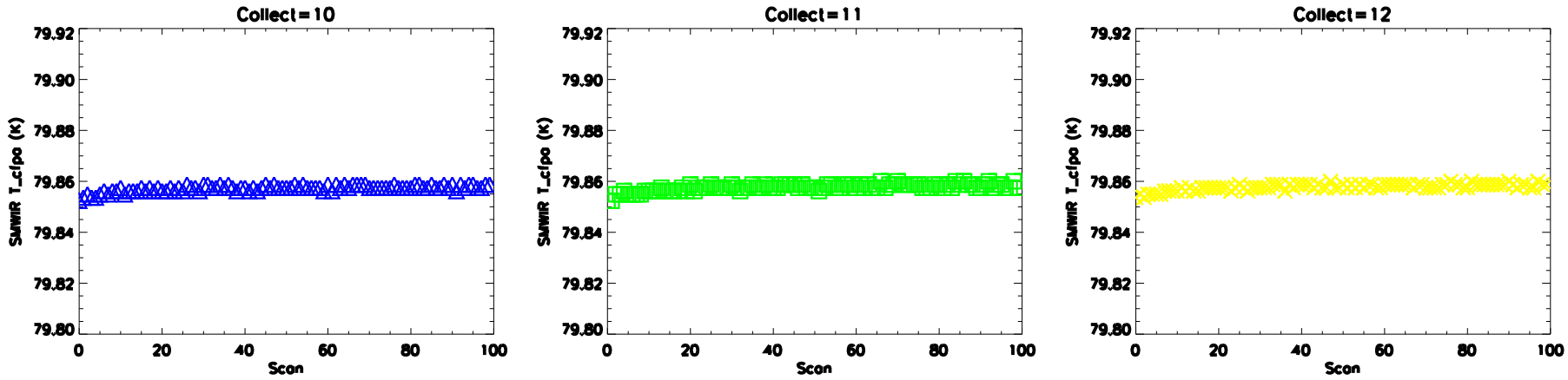


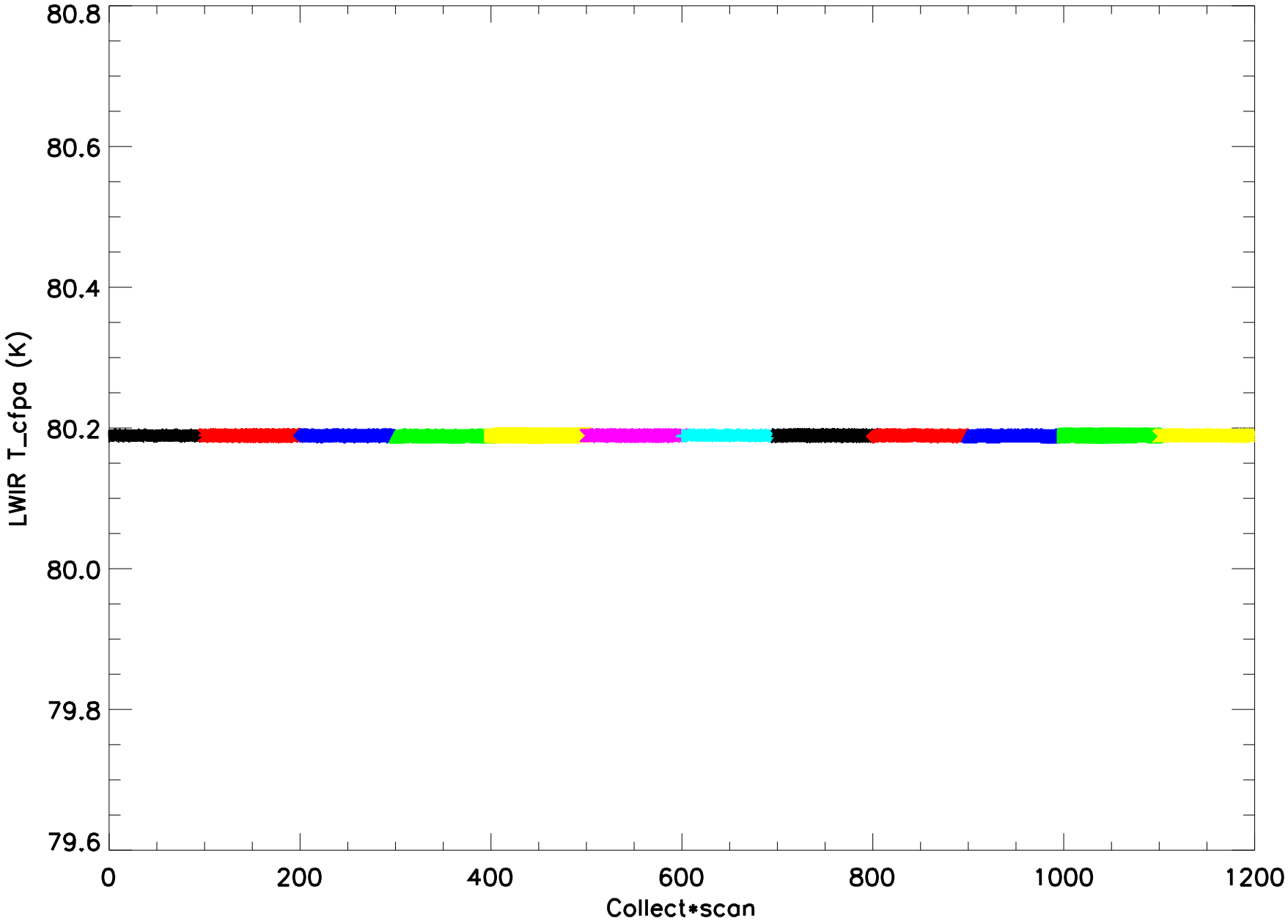

SMWIR T_cfpa vs Scan and Collect
80.4
80.2
80.0
79.8
79.6
79.4
79.2
SMWIR T_cfpa (K)
0
200
400
600
800
1000
1200
Collect*scan

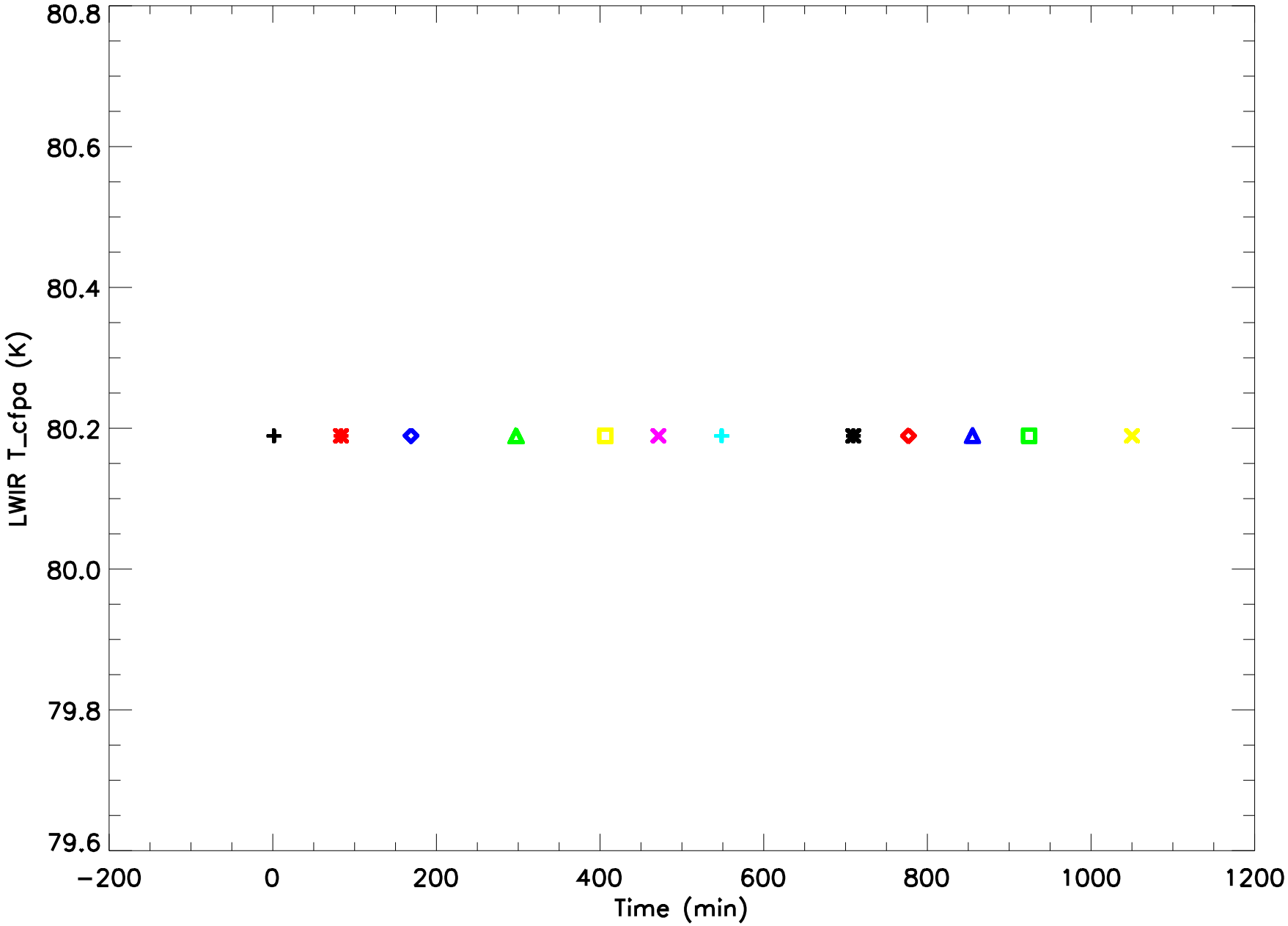

SMWIR T_cfpa vs Time
SMWIR T_cfpa (K)
80.4
80.2
80.0
79.8
79.6
79.4
79.2
−200
0
200
400
600
800
1000
1200
Time (min)

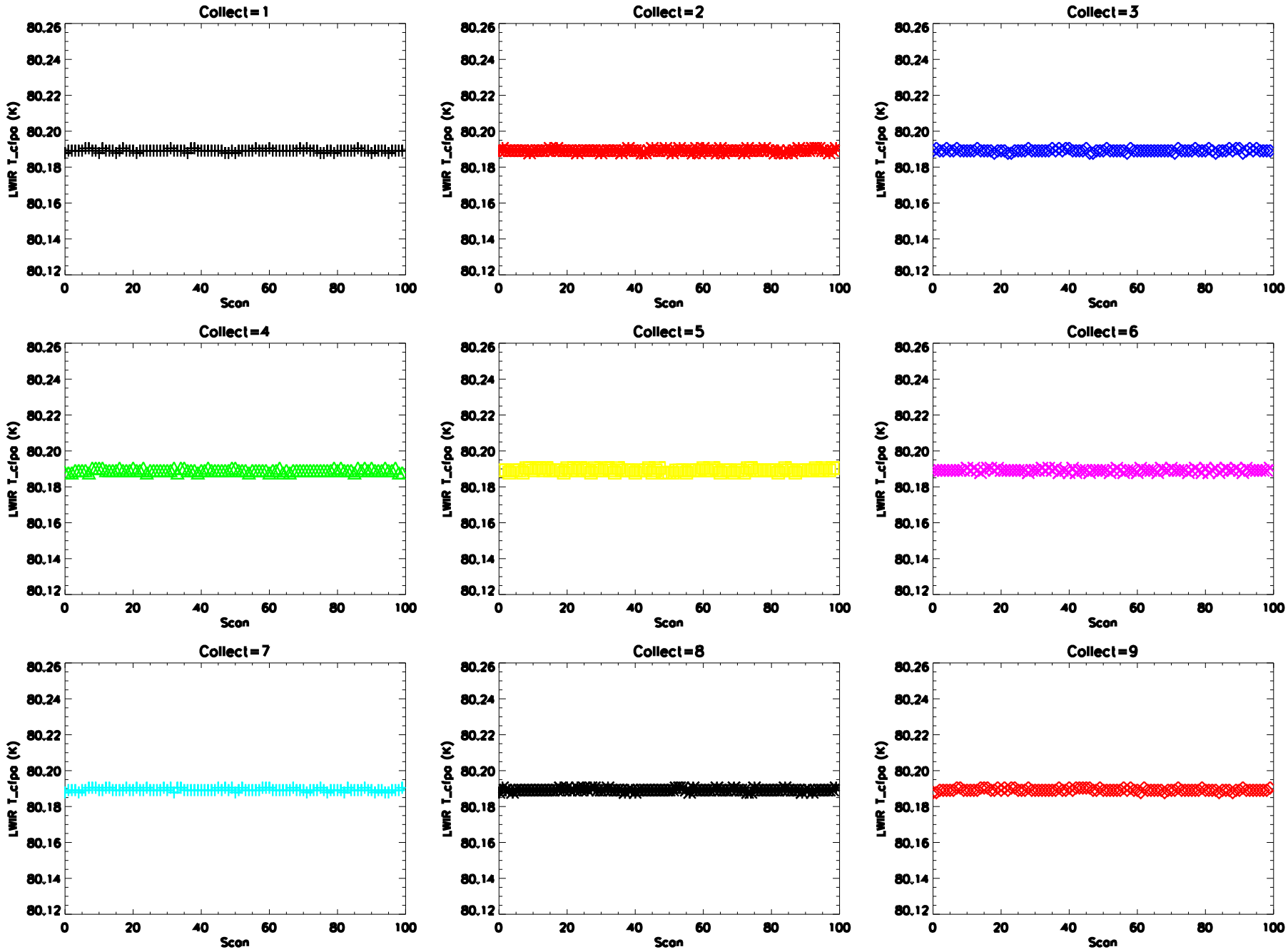

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
20
40
60
80
100

SMWIR T_cfpa vs Scan

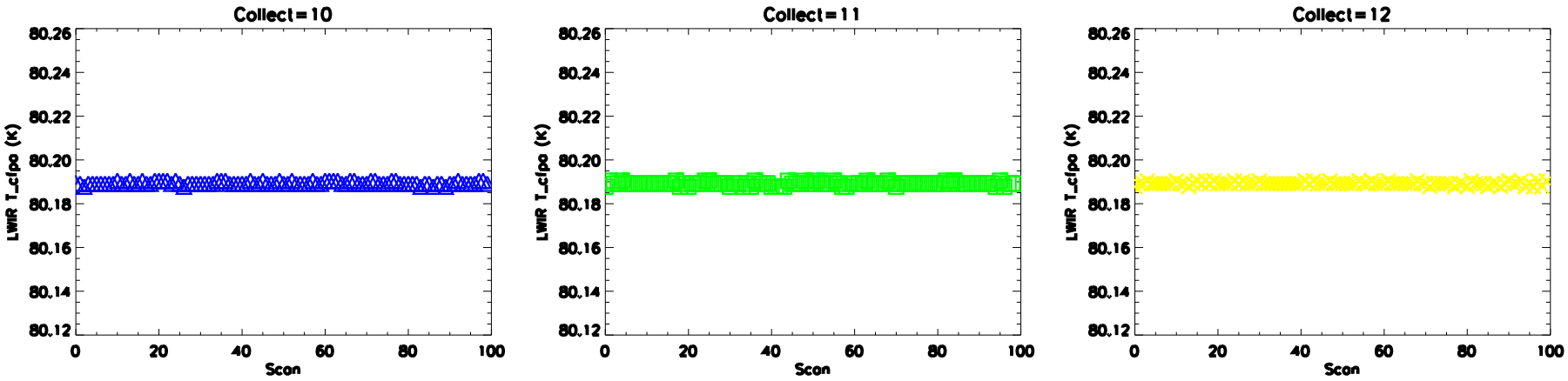


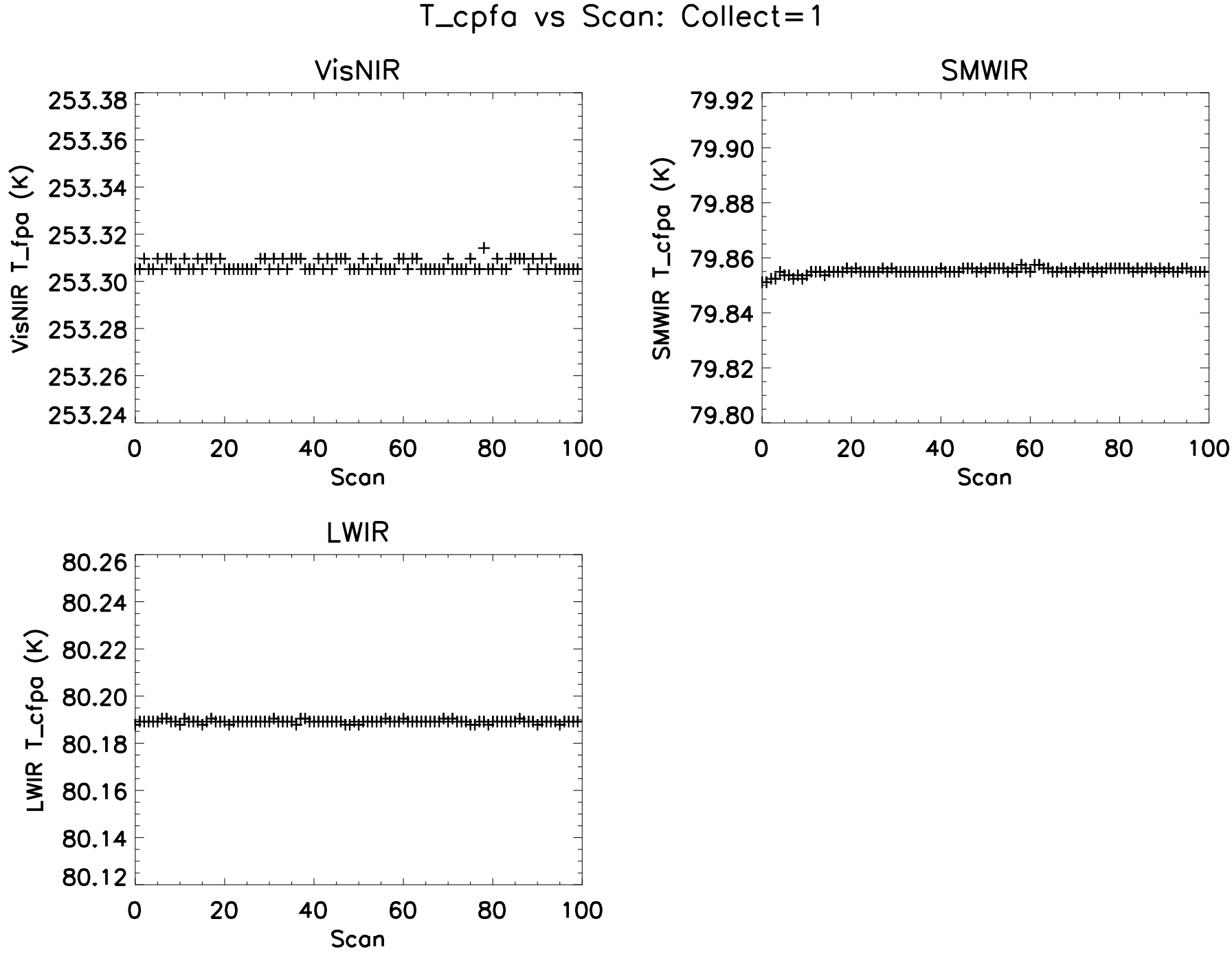

LWIR T_cfpa vs Scan and Collect
LWIR T_cfpa (K)
80.8
80.6
80.4
80.2
80.0
79.8
79.6
0
200
400
600
800
1000
1200
Collect*scan

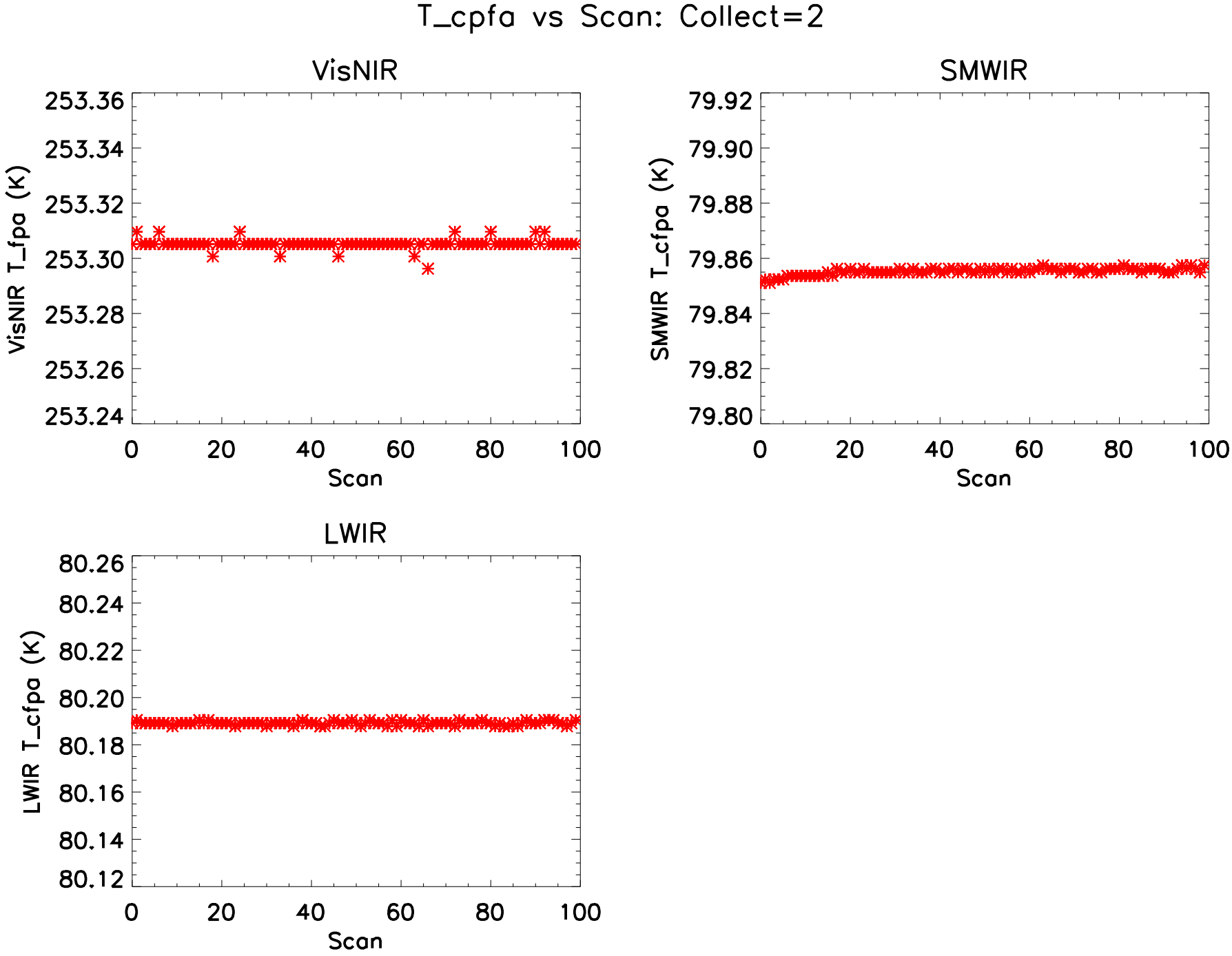

LWIR T_cfpa vs Time
LWIR T_cfpa (K)
80.8
80.6
80.4
80.2
80.0
79.8
79.6
−200
0
200
400
600
800
1000
1200
Time (min)

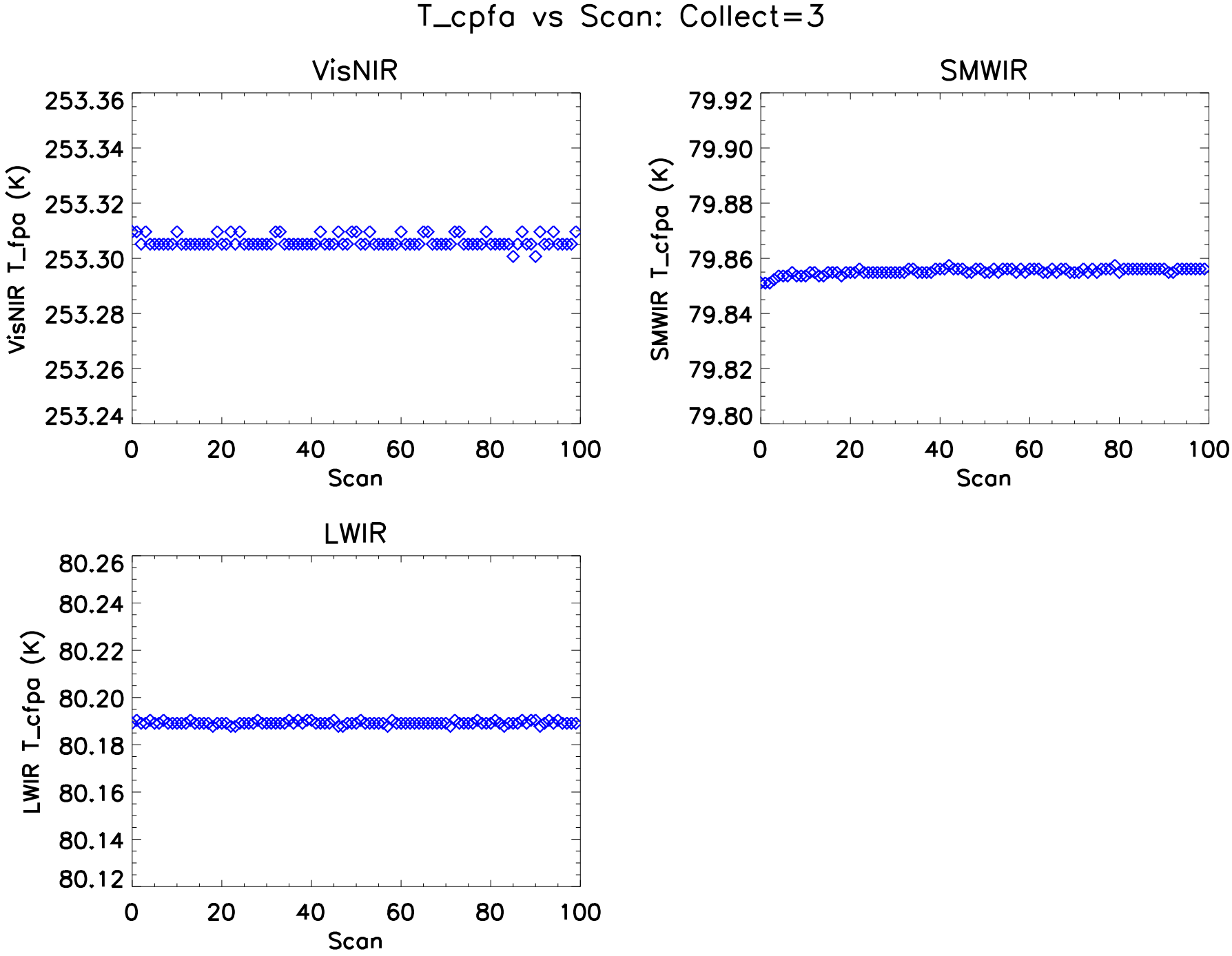

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_cfpa (K)
Scan
80.12
80.14
80.16
80.18
80.20
80.22
80.24
80.26
0
20
40
60
80
100

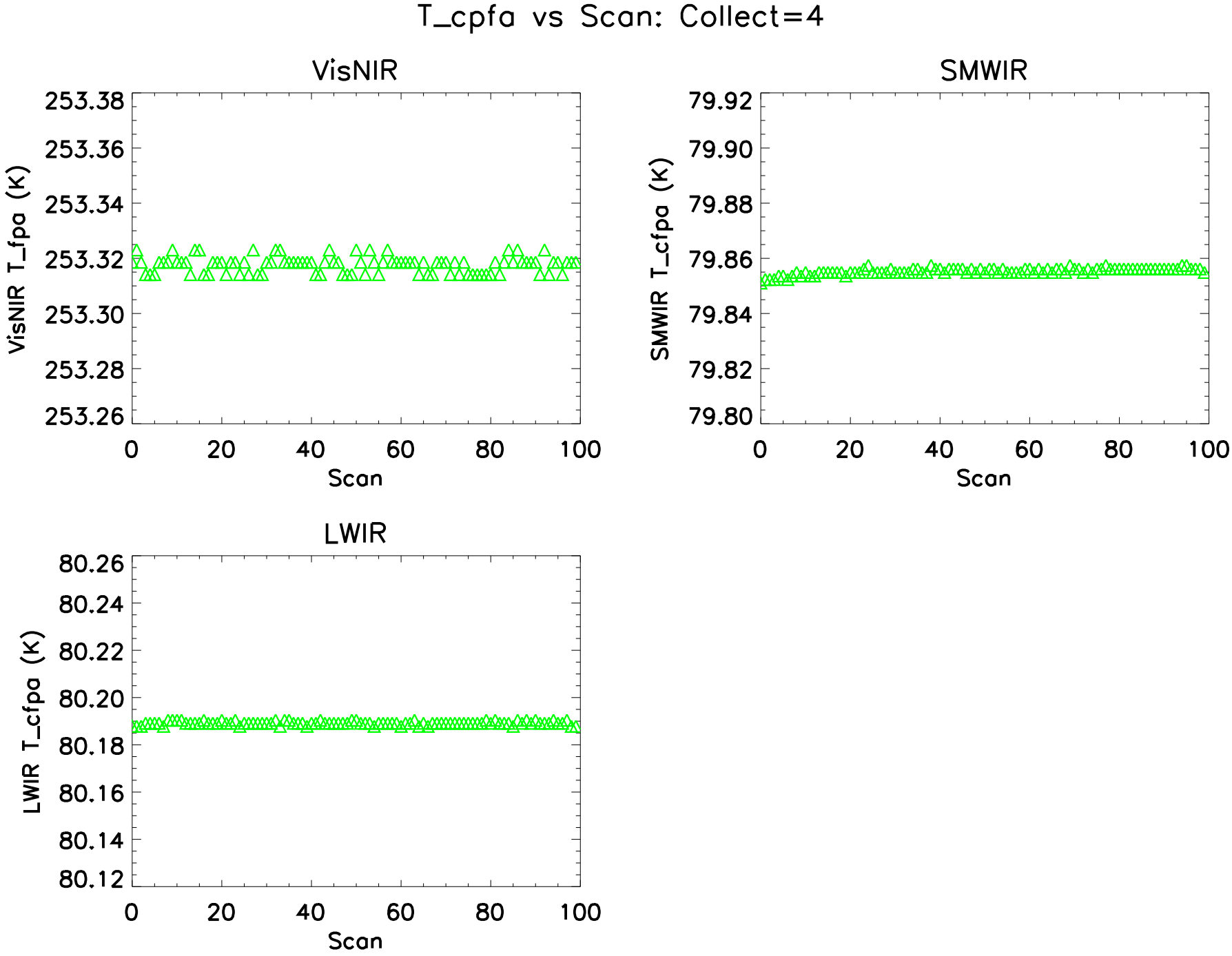
LWIR T_cfpa vs Scan

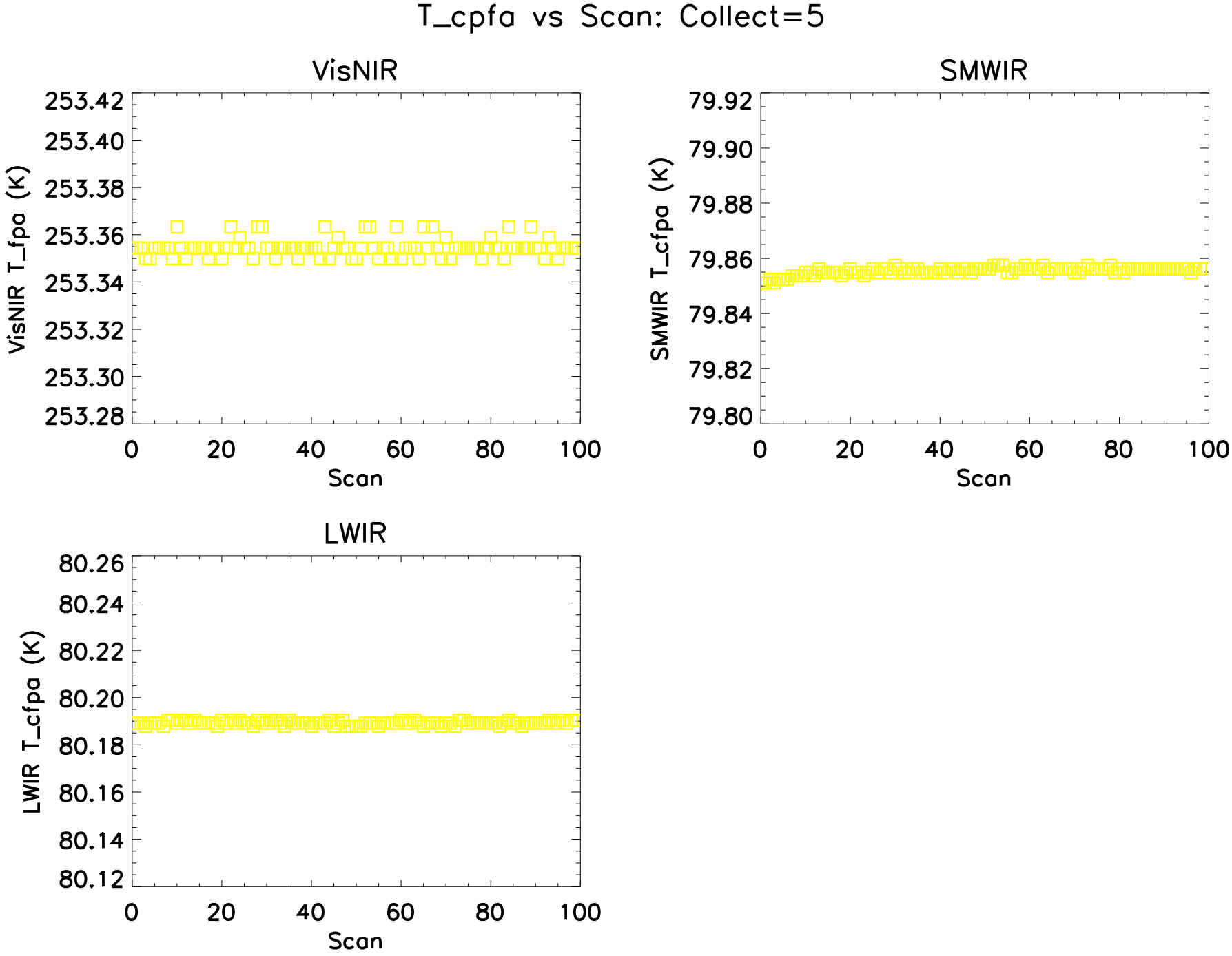


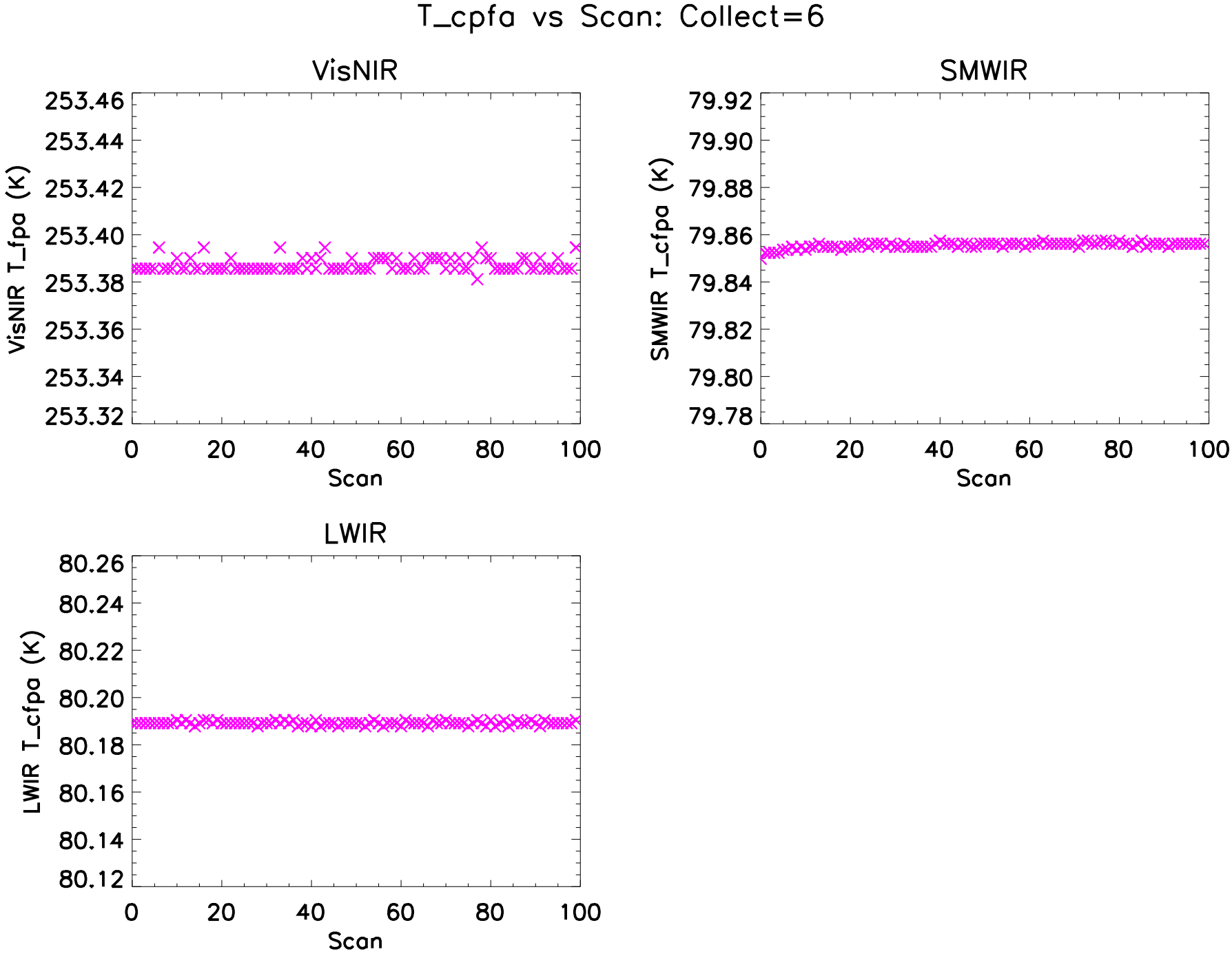

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
253.38
253.36
253.34
253.32
253.30
253.28
253.26
253.24
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

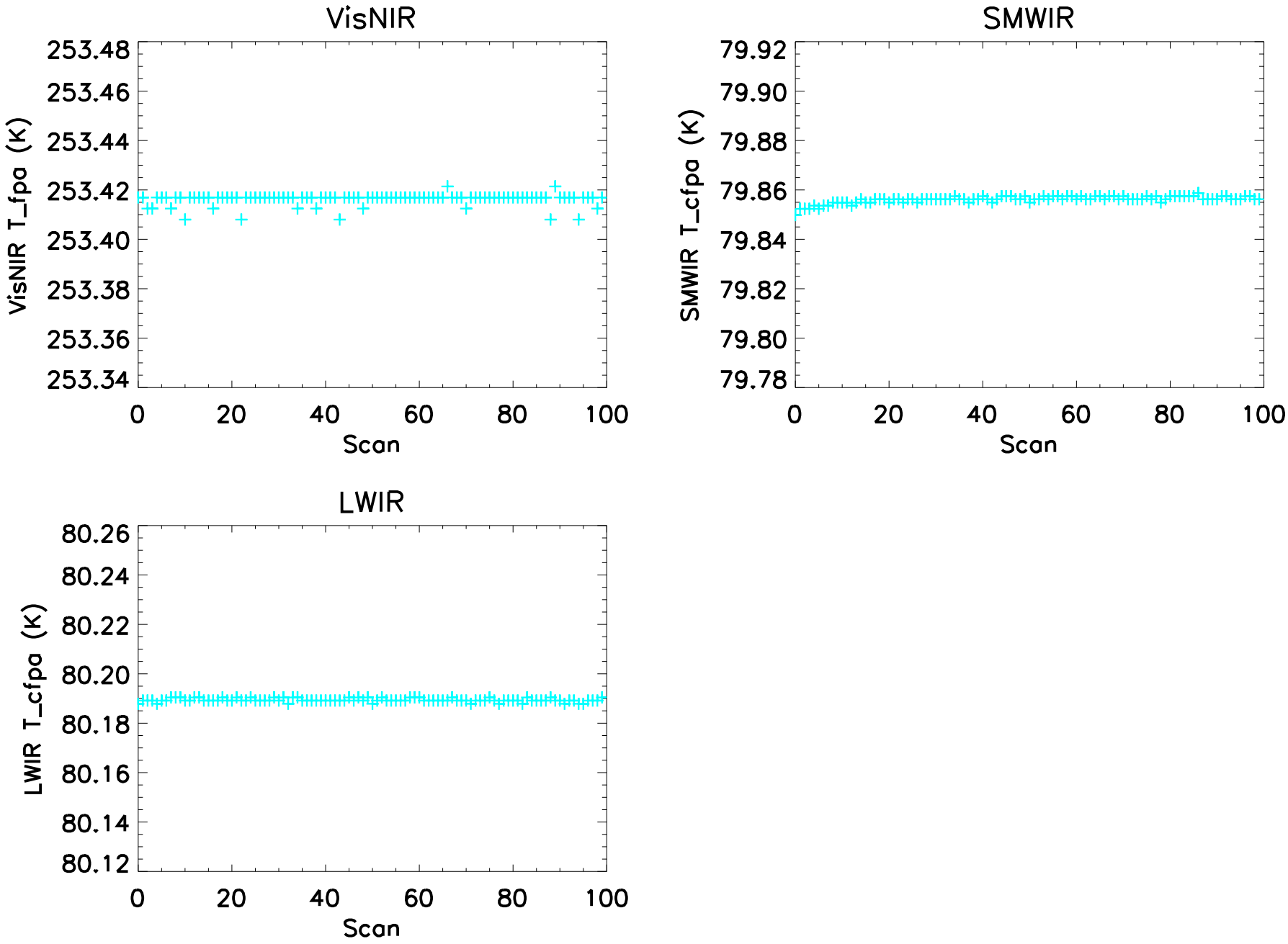

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
253.36
253.34
253.32
253.30
253.28
253.26
253.24
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

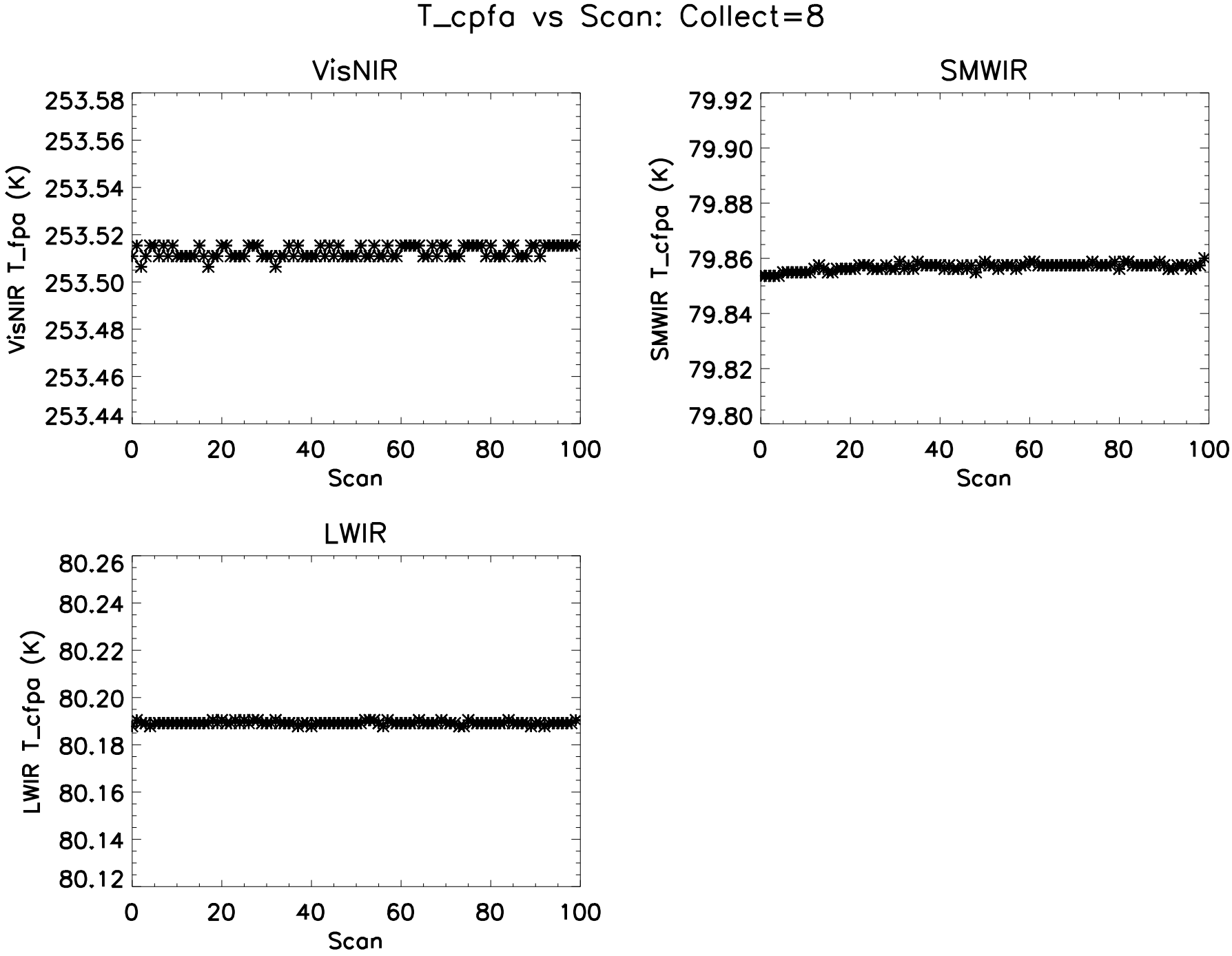

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
253.36
253.34
253.32
253.30
253.28
253.26
253.24
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

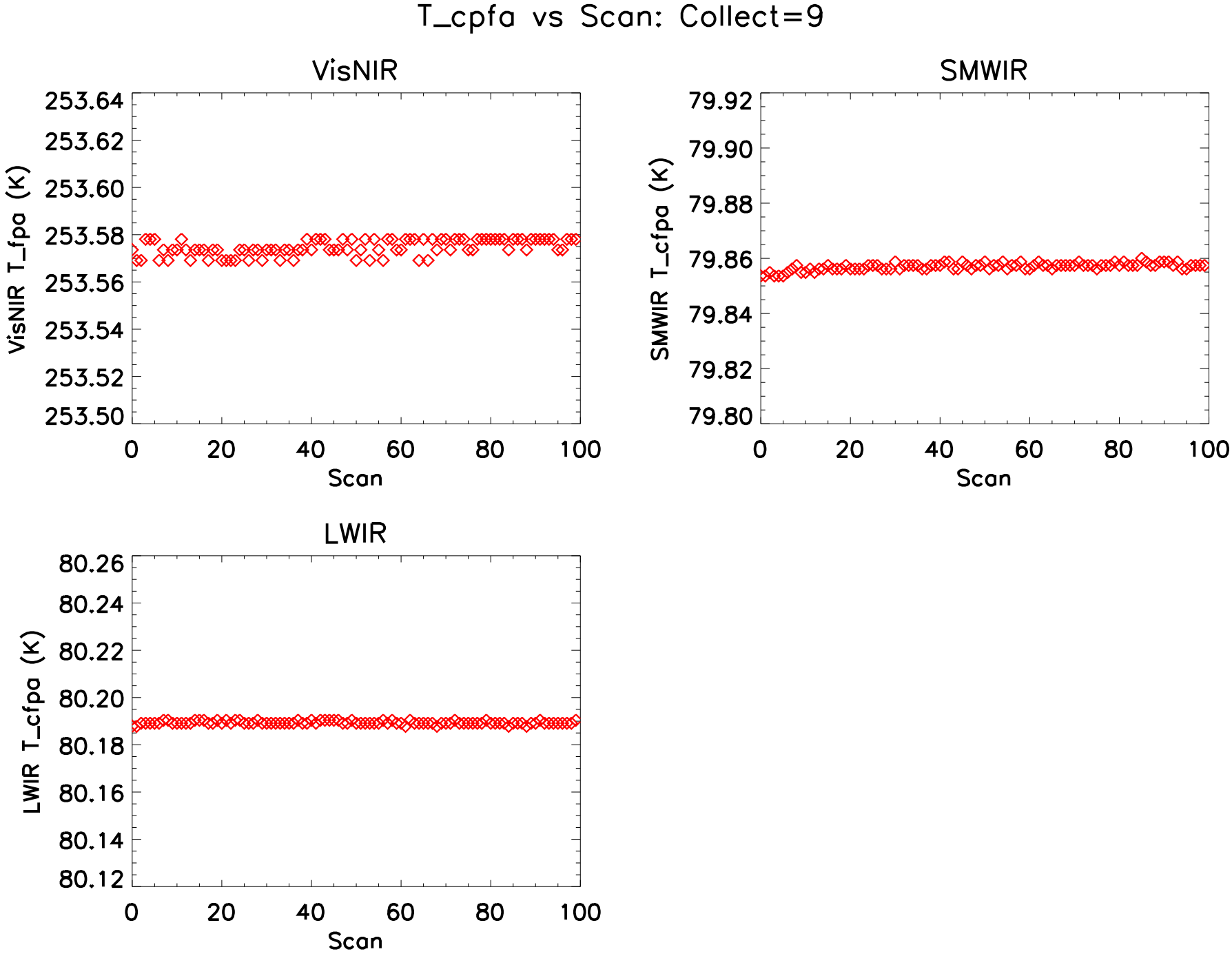

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
253.38
253.36
253.34
253.32
253.30
253.28
253.26
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

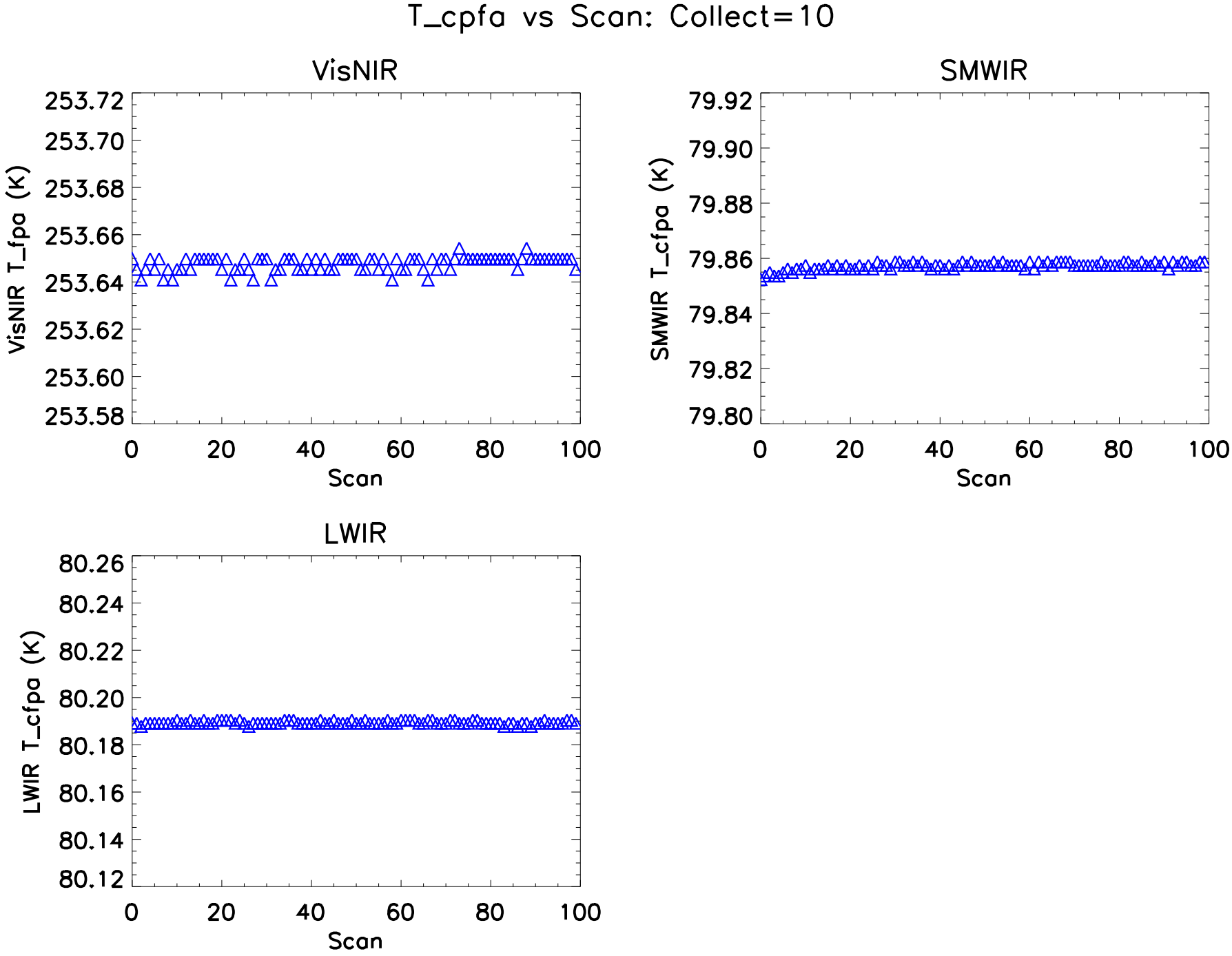

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
253.42
253.40
253.38
253.36
253.34
253.32
253.30
253.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

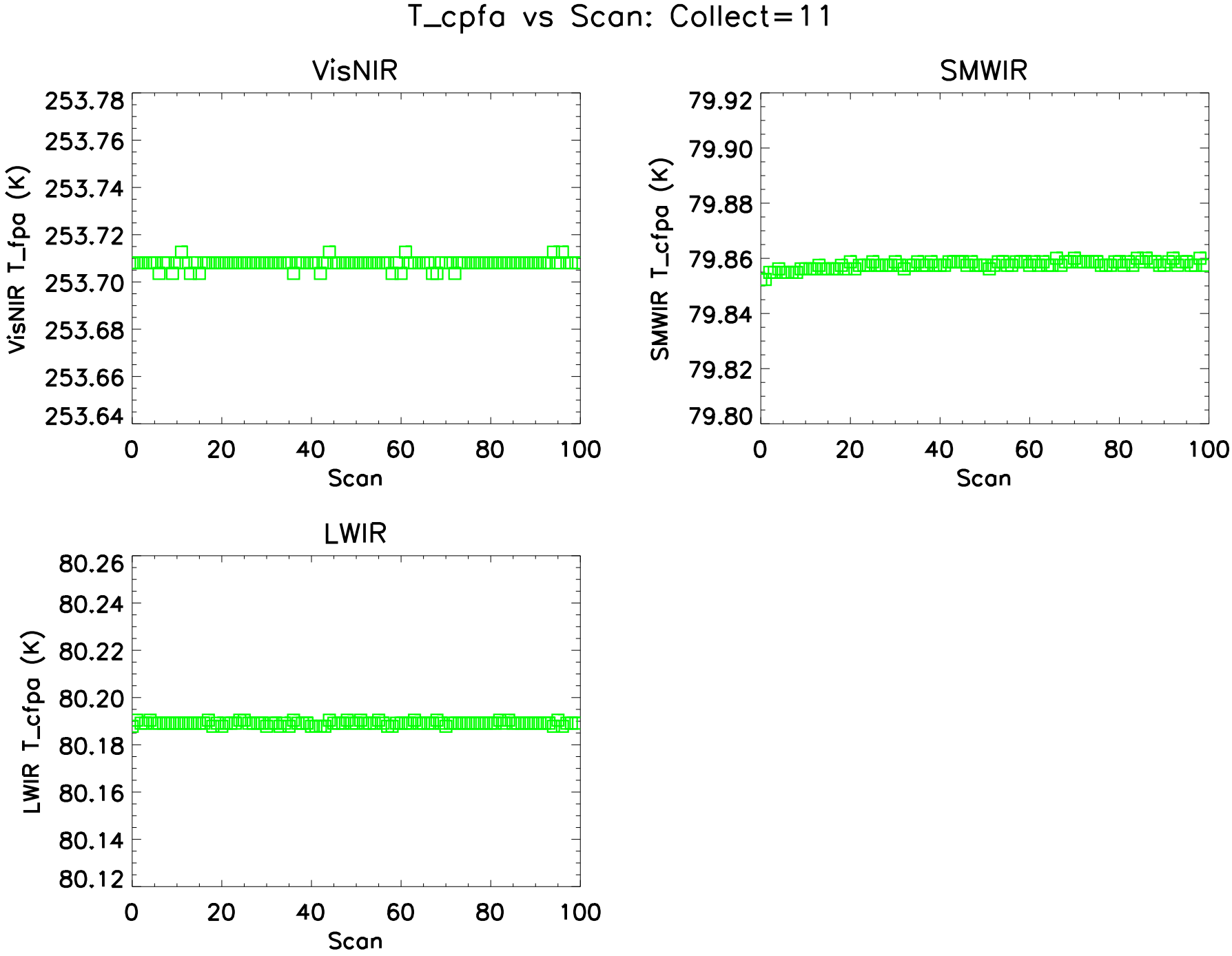

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
253.46
253.44
253.42
253.40
253.38
253.36
253.34
253.32
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

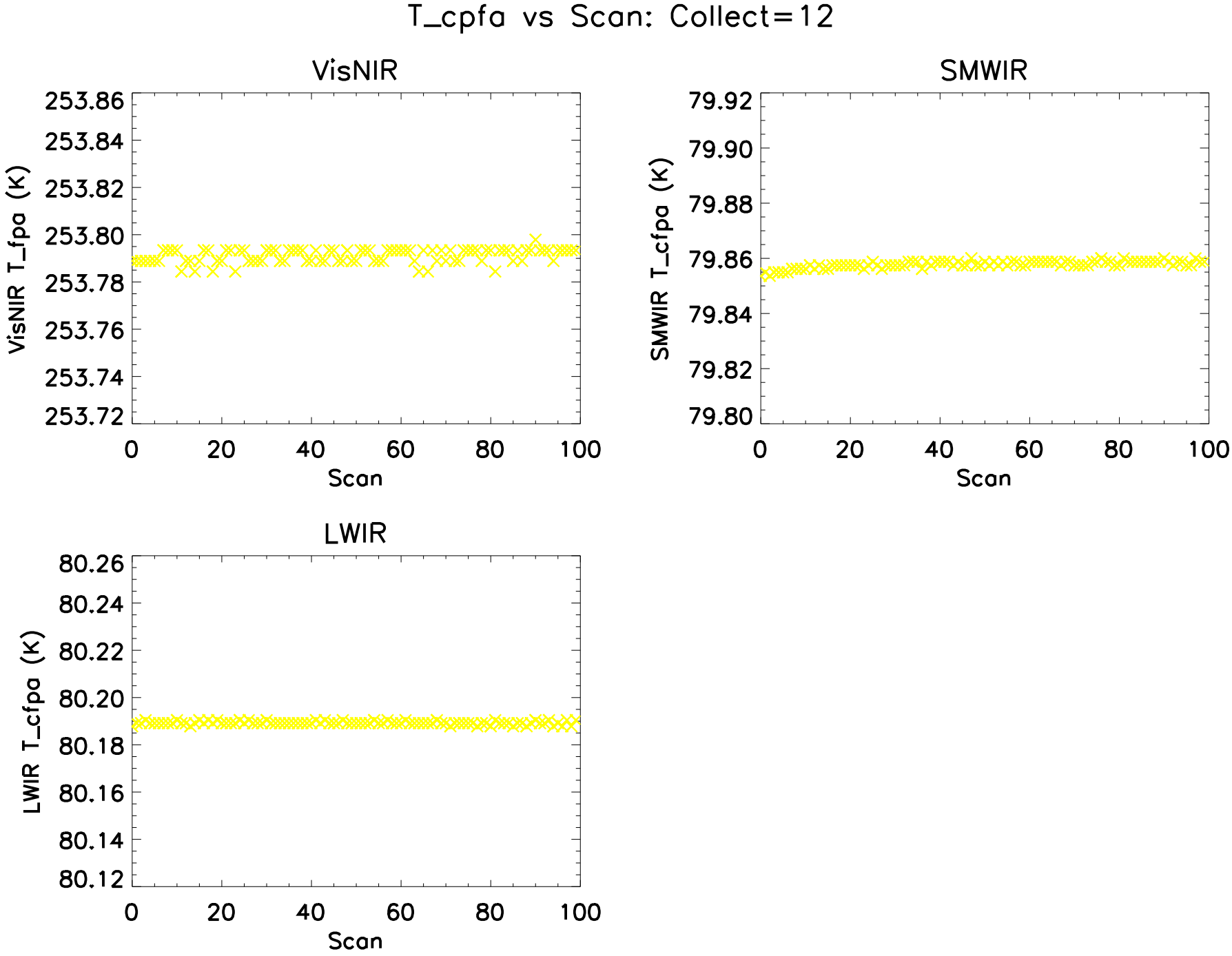

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
253.48
253.46
253.44
253.42
253.40
253.38
253.36
253.34
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
79.78
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

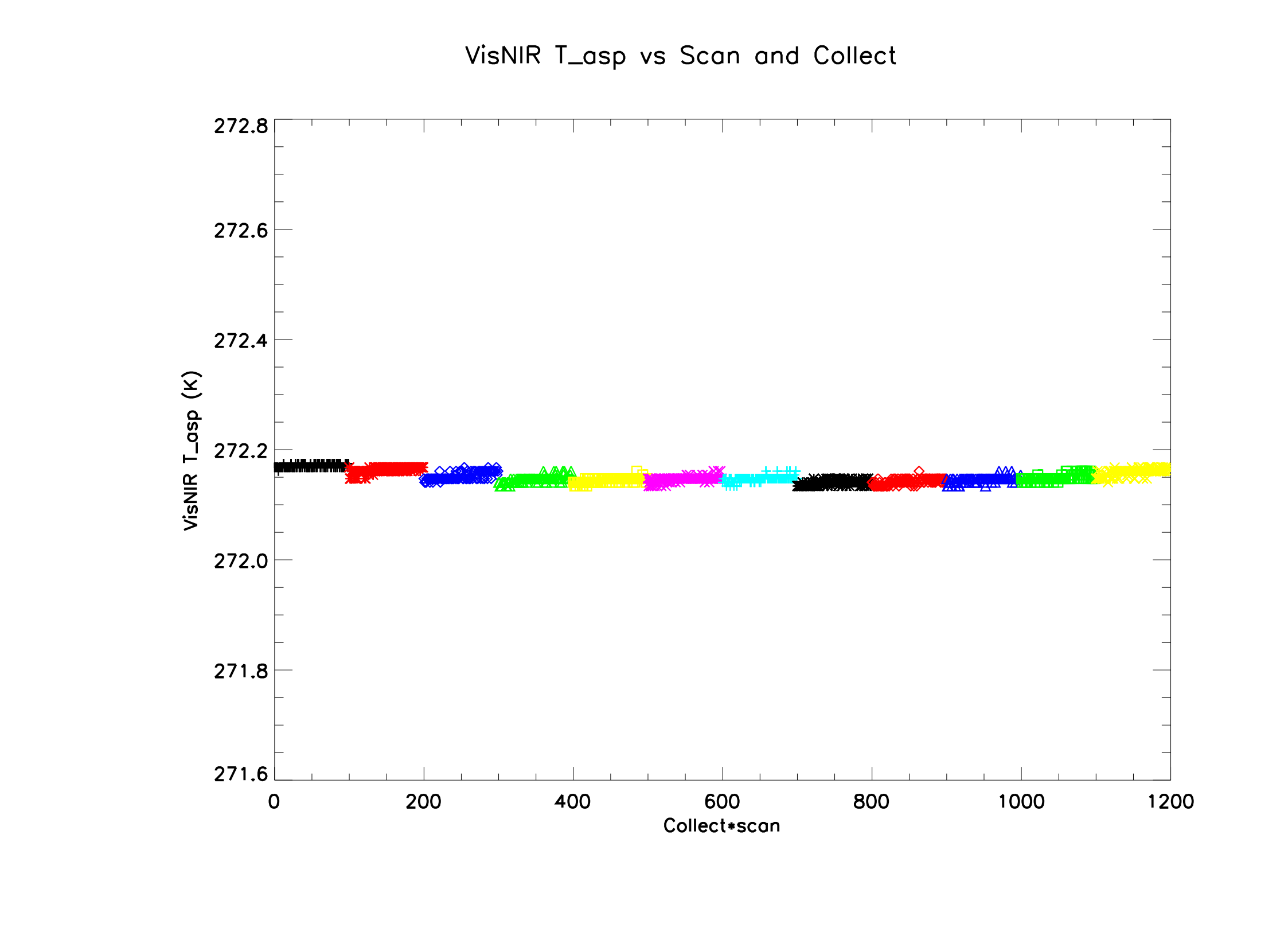

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
253.58
253.56
253.54
253.52
253.50
253.48
253.46
253.44
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

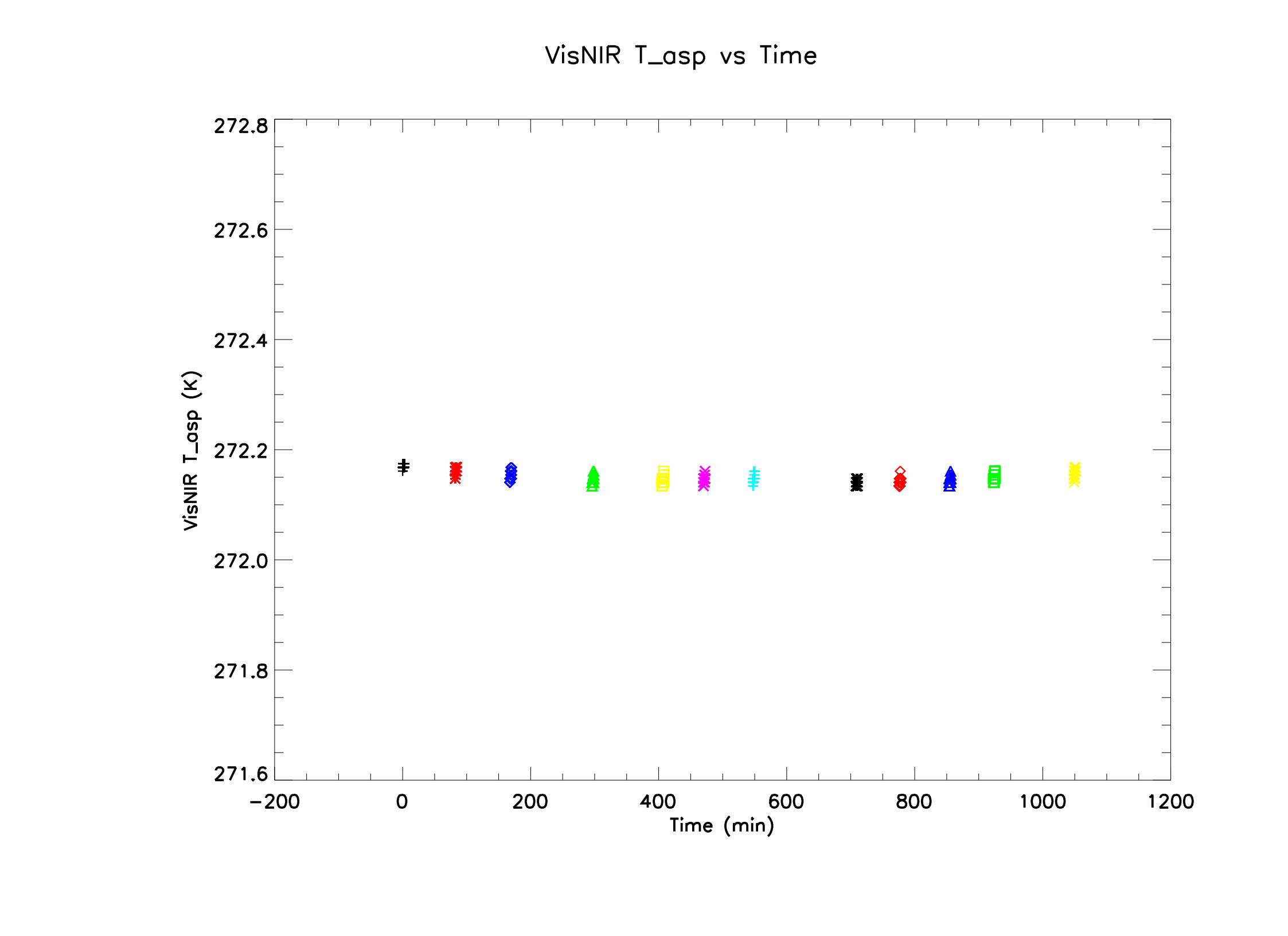

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
253.64
253.62
253.60
253.58
253.56
253.54
253.52
253.50
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

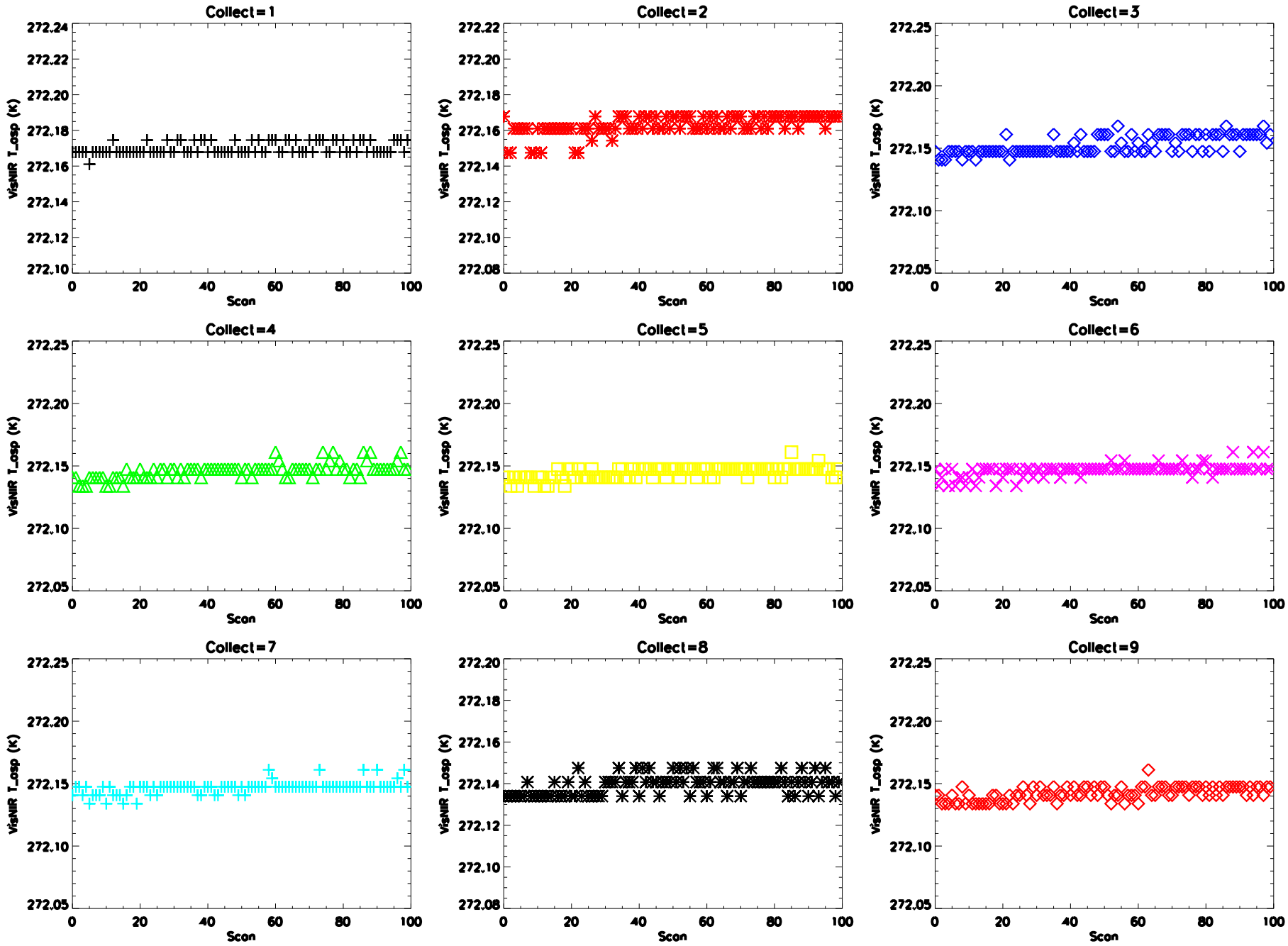

T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
253.72
253.70
253.68
253.66
253.64
253.62
253.60
253.58
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan


T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
253.78
253.76
253.74
253.72
253.70
253.68
253.66
253.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

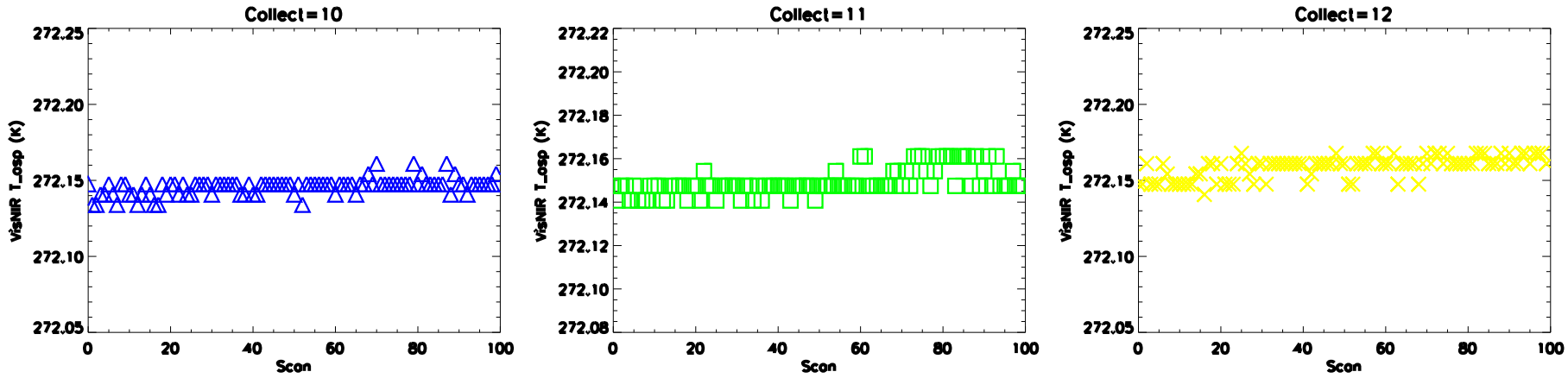

T_cpfa vs Scan: Collect=12
VisNIR
VisNIR T_fpa (K)
253.86
253.84
253.82
253.80
253.78
253.76
253.74
253.72
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.92
79.90
79.88
79.86
79.84
79.82
79.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

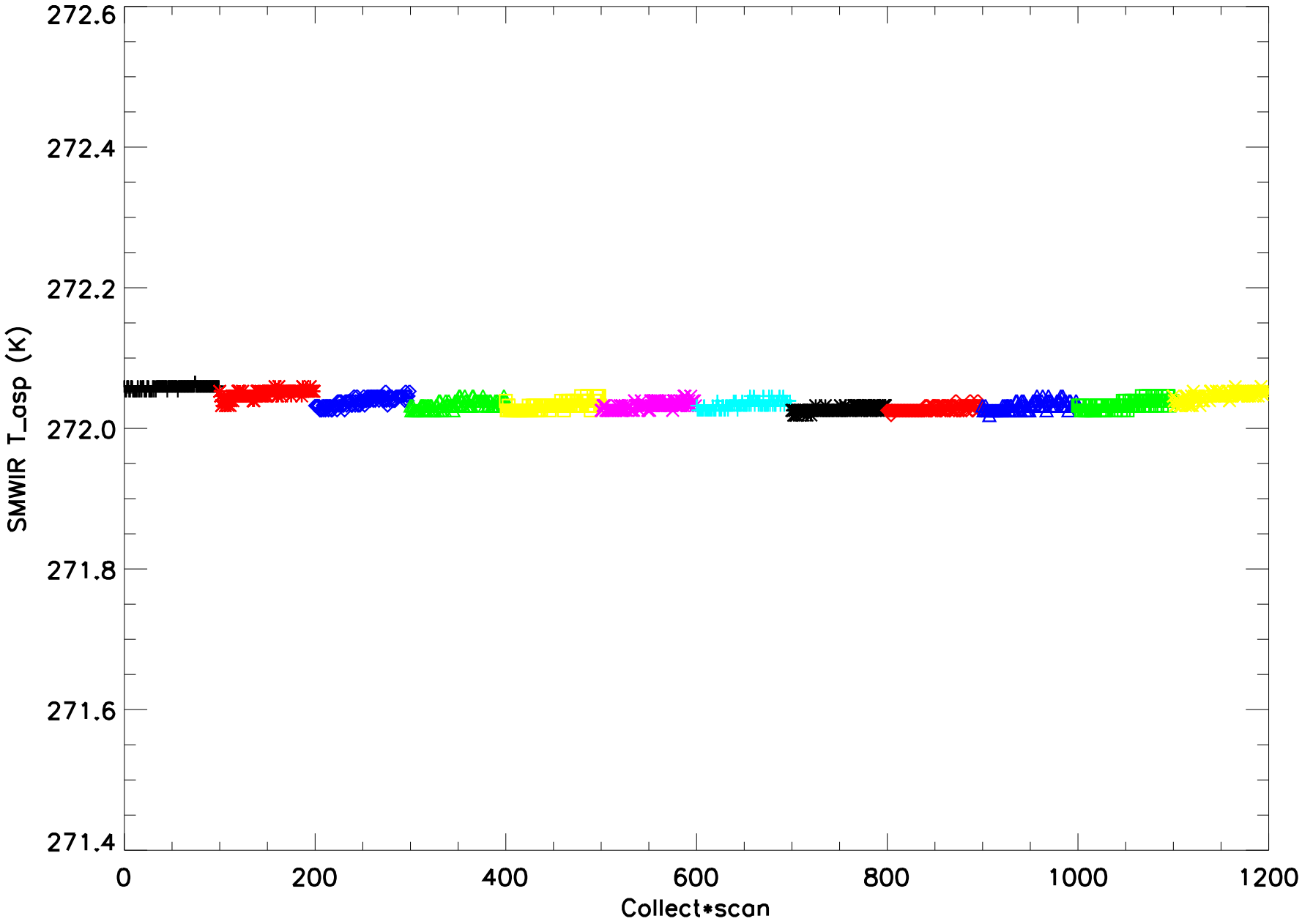

VisNIR T_asp vs Scan and Collect
VisNIR T_asp (K)
272.8
272.6
272.4
272.2
272.0
271.8
271.6
0
200
400
600
800
1000
1200
Collect*scan

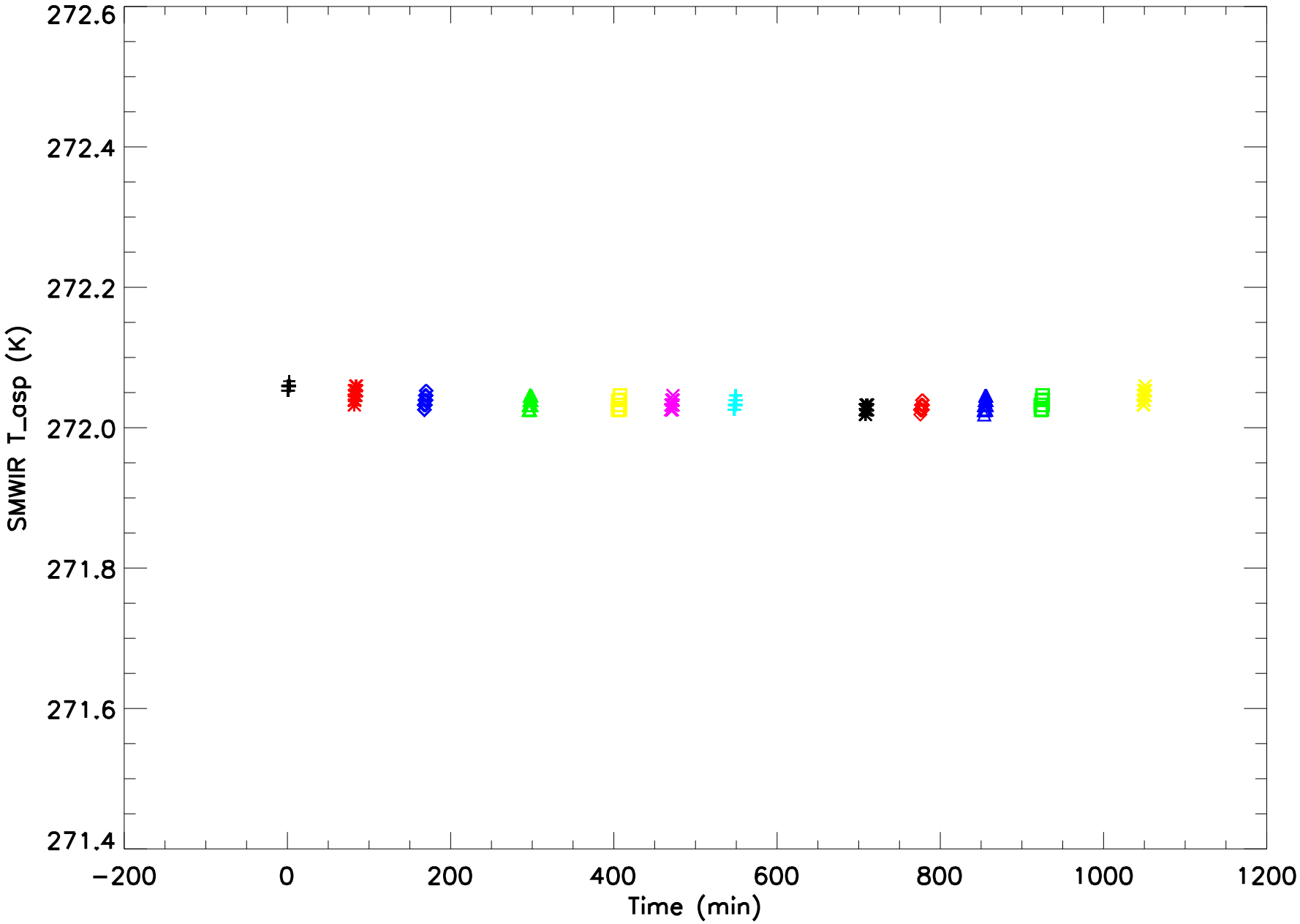

VisNIR T_asp vs Time
VisNIR T_asp (K)
272.8
272.6
272.4
272.2
272.0
271.8
271.6
−200
0
200
400
600
800
1000
1200
Time (min)

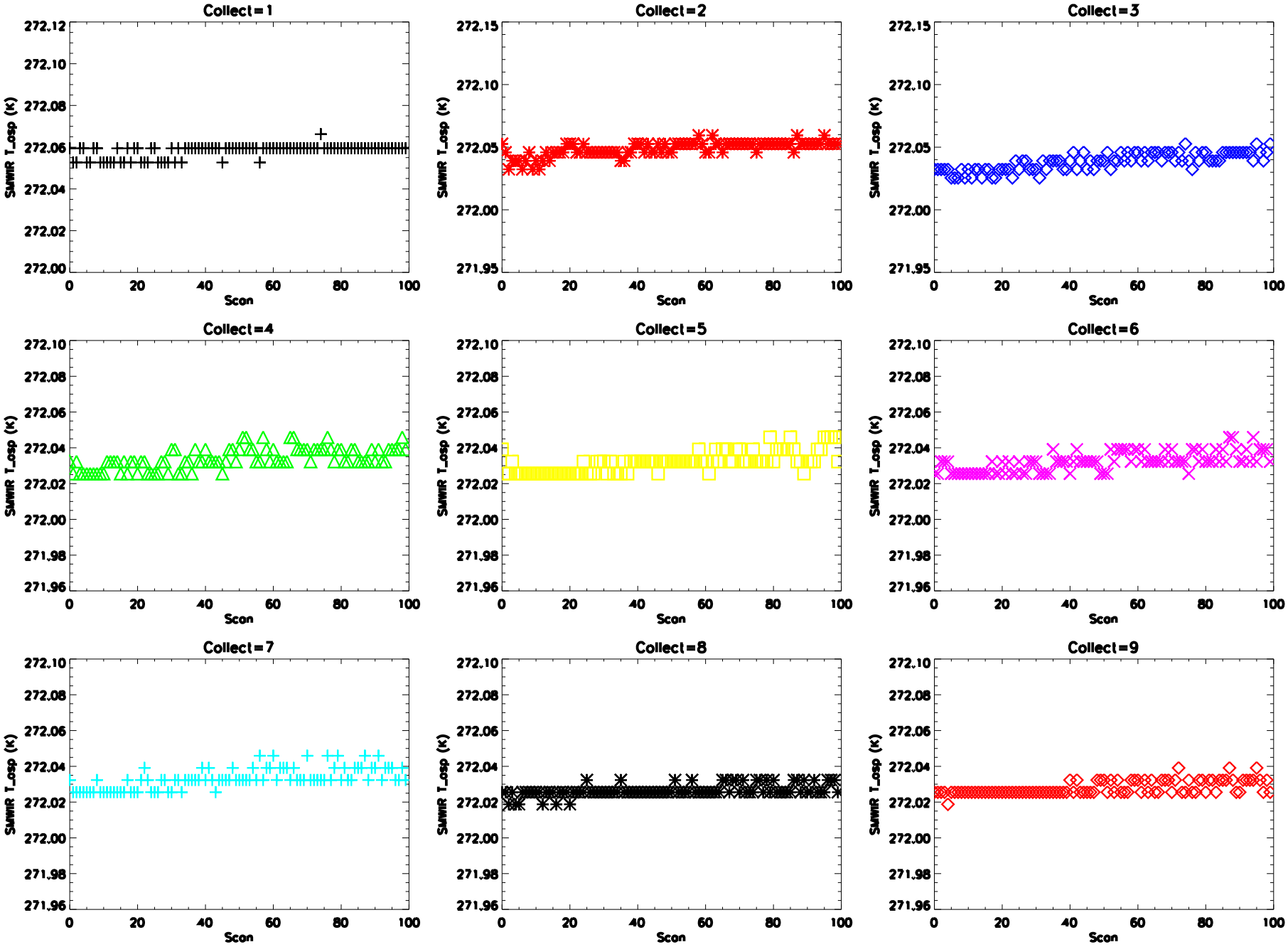

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_osp (K)
Scan

VisNIR T_asp vs Scan

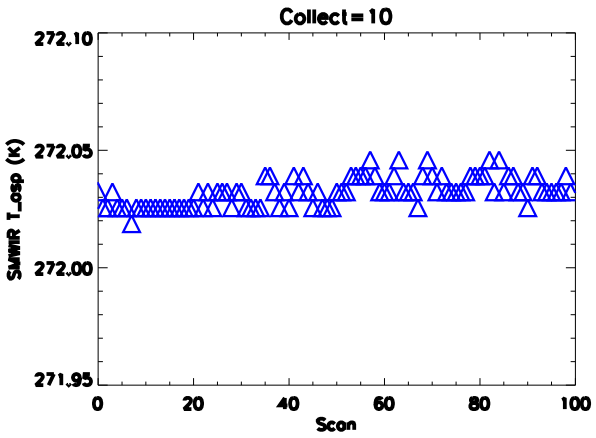


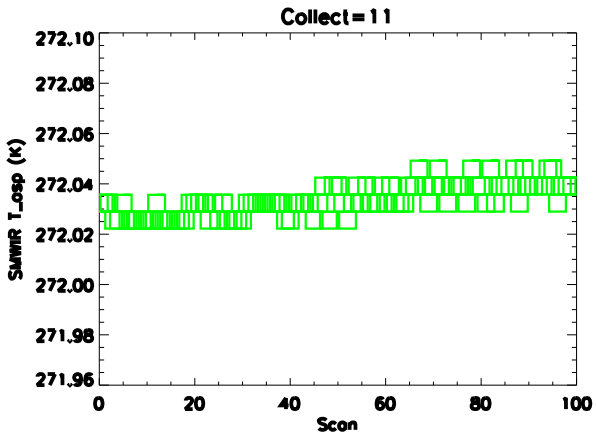

SMWIR T_asp vs Scan and Collect
272.6
272.4
272.2
272.0
271.8
271.6
271.4
SMWIR T_asp (K)
0
200
400
600
800
1000
1200
Collect*scan

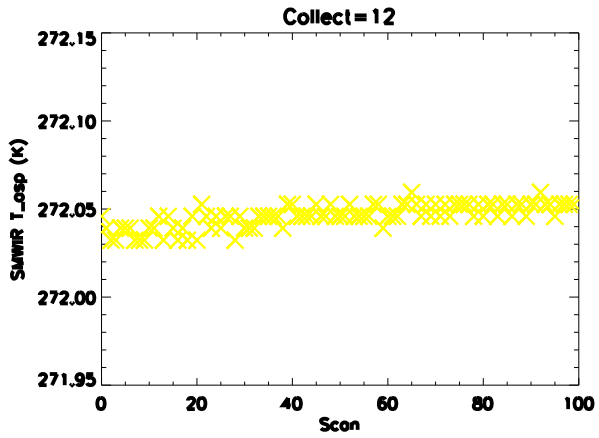

SMWIR T_asp vs Time
SMWIR T_asp (K)
272.6
272.4
272.2
272.0
271.8
271.6
271.4
−200
0
200
400
600
800
1000
1200
Time (min)

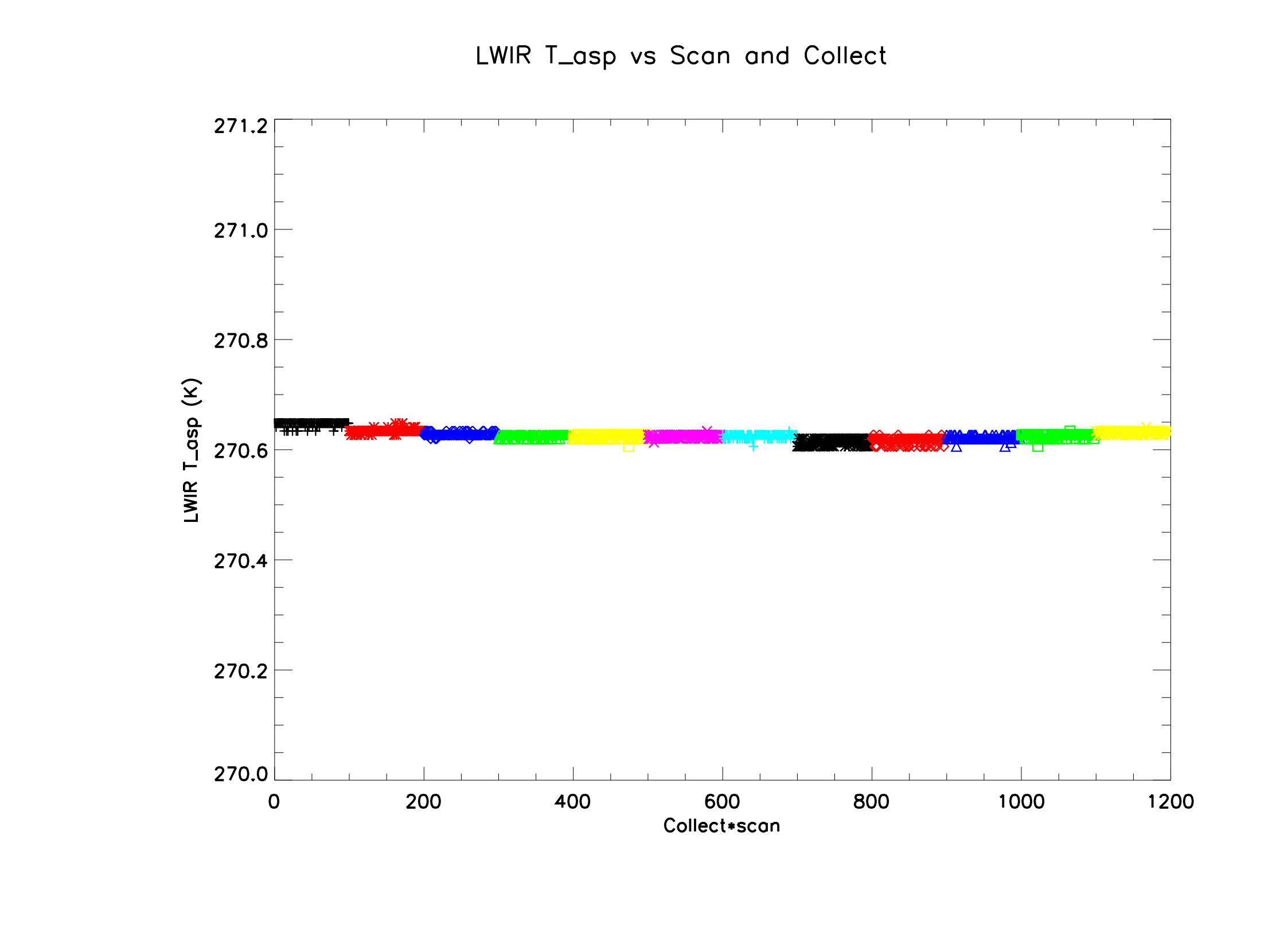

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SNWNR T_osp (K)
Scan

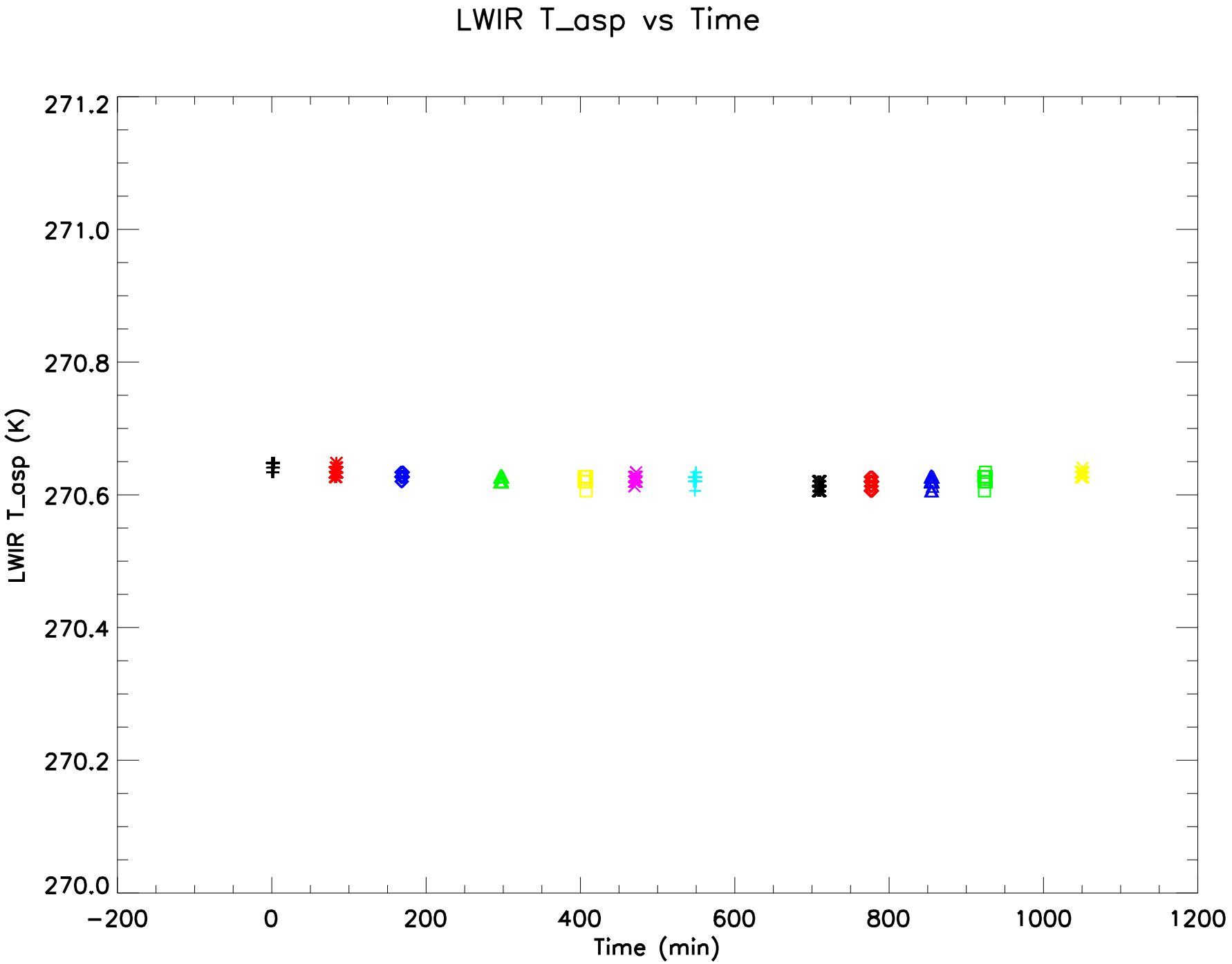
SMWIR T_asp vs Scan

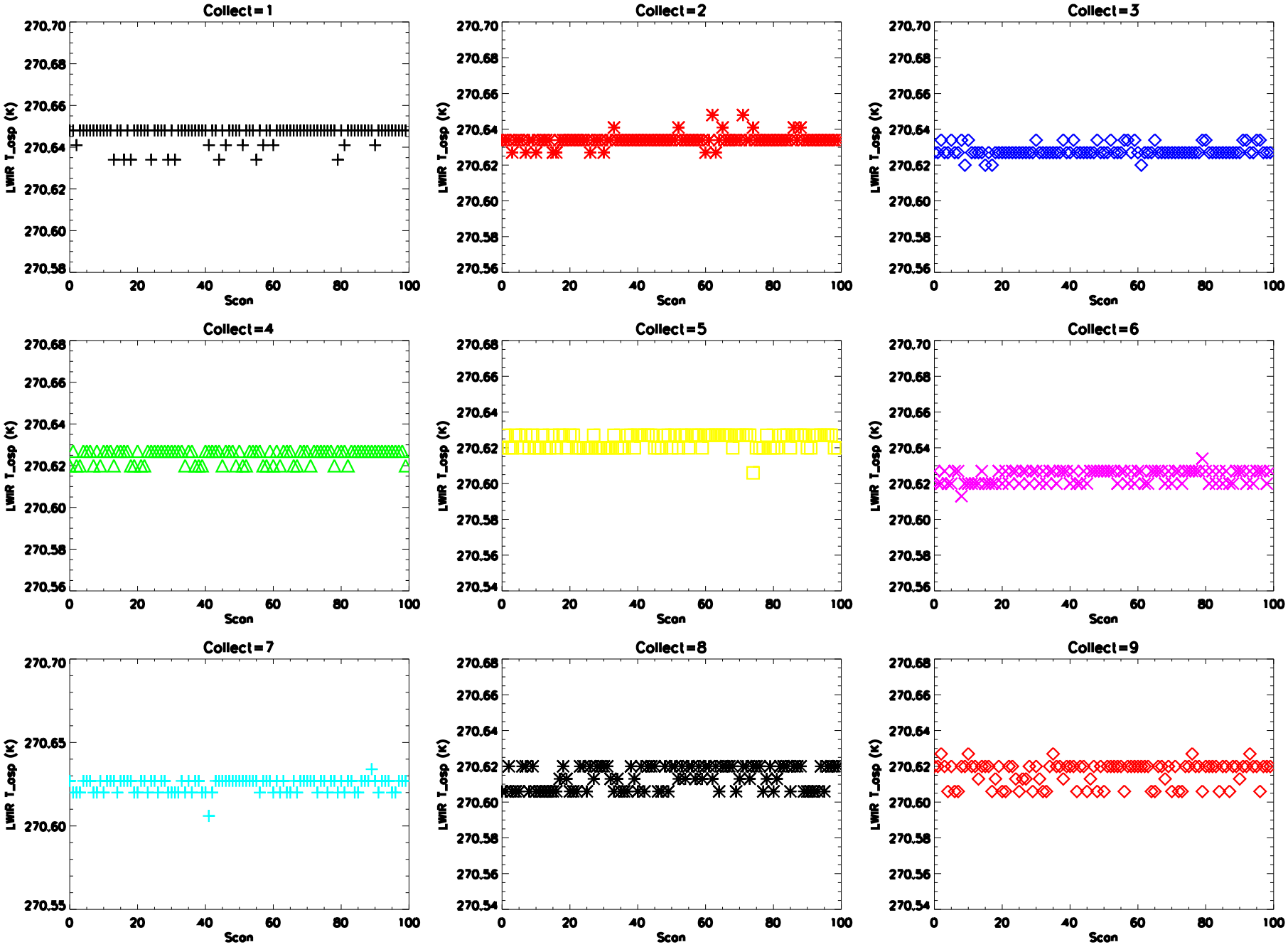




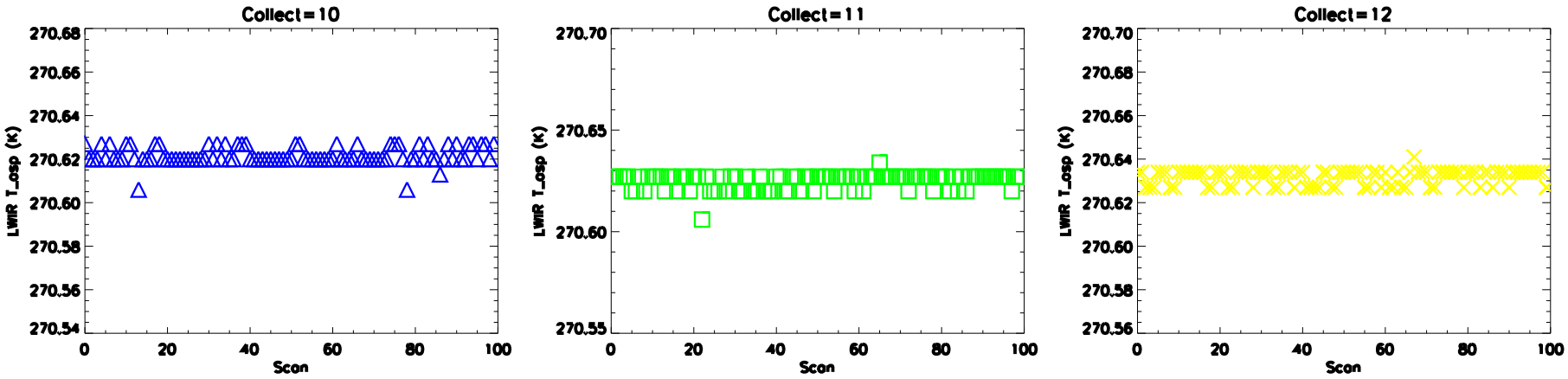


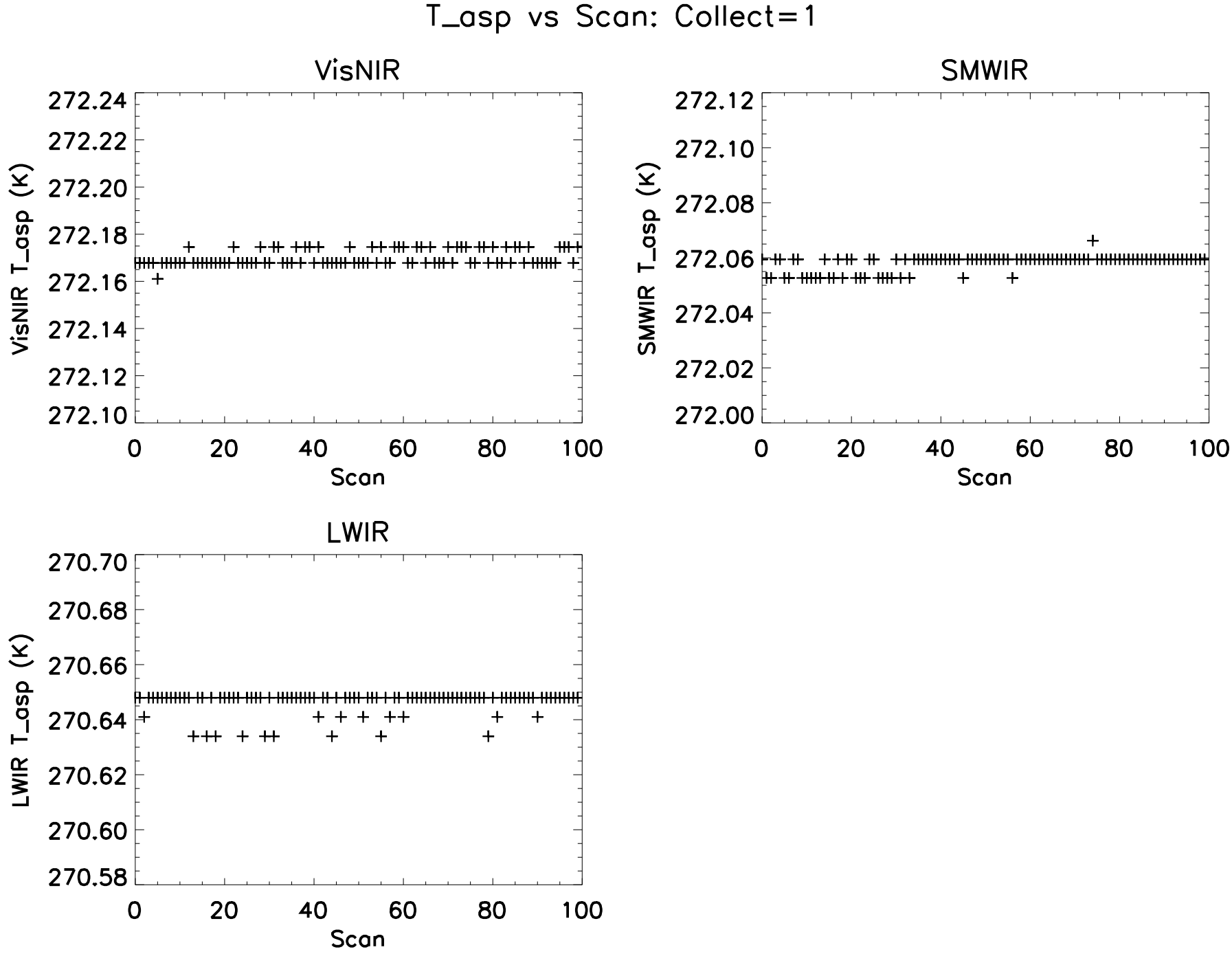

LWIR T_asp vs Scan and Collect
271.2
271.0
270.8
270.6
270.4
270.2
270.0
LWIR T_asp (K)
0
200
400
600
800
1000
1200
Collect*scan

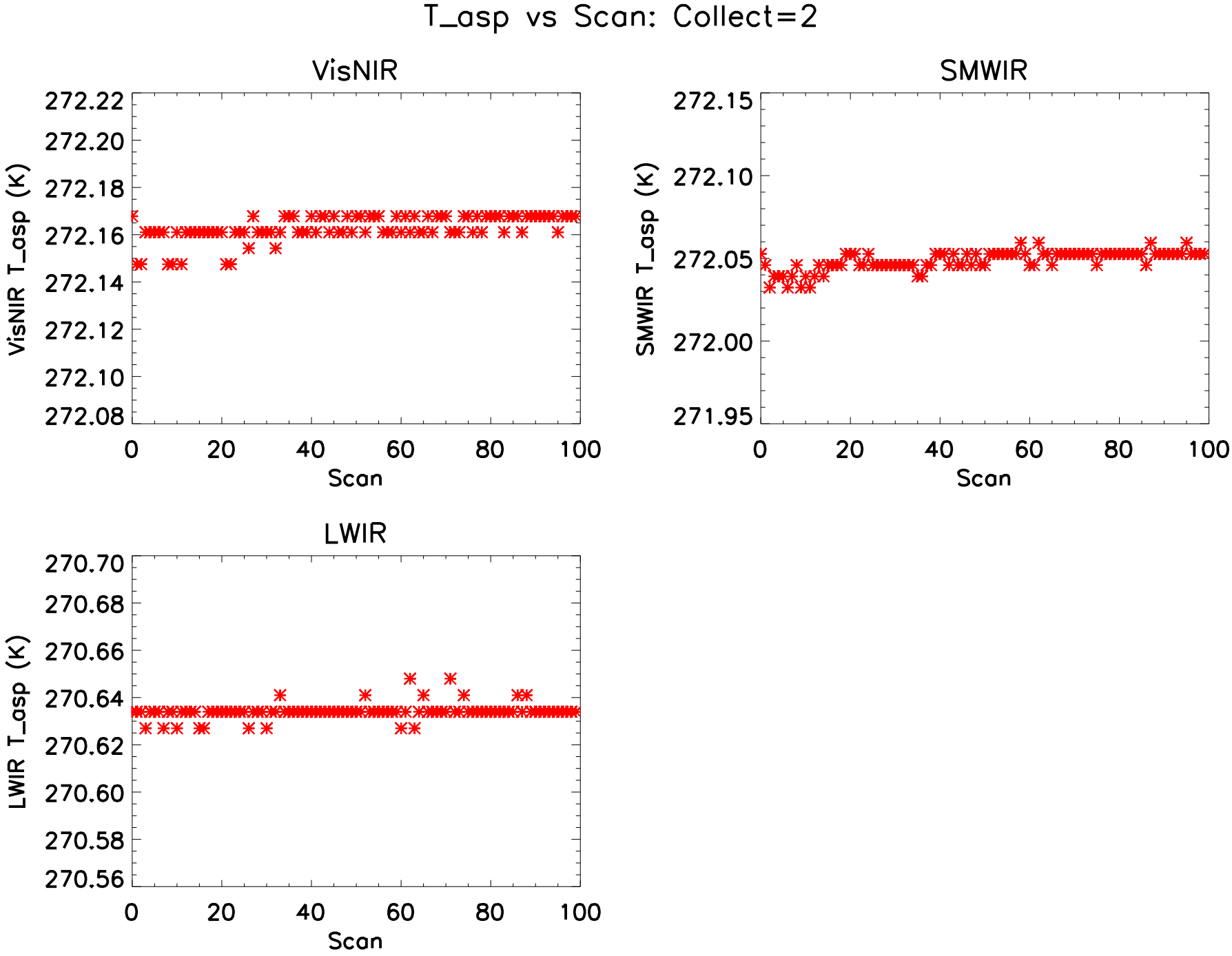

LWIR T_asp vs Time
LWIR T_asp (K)
271.2
271.0
270.8
270.6
270.4
270.2
270.0
−200
0
200
400
600
800
1000
1200
Time (min)

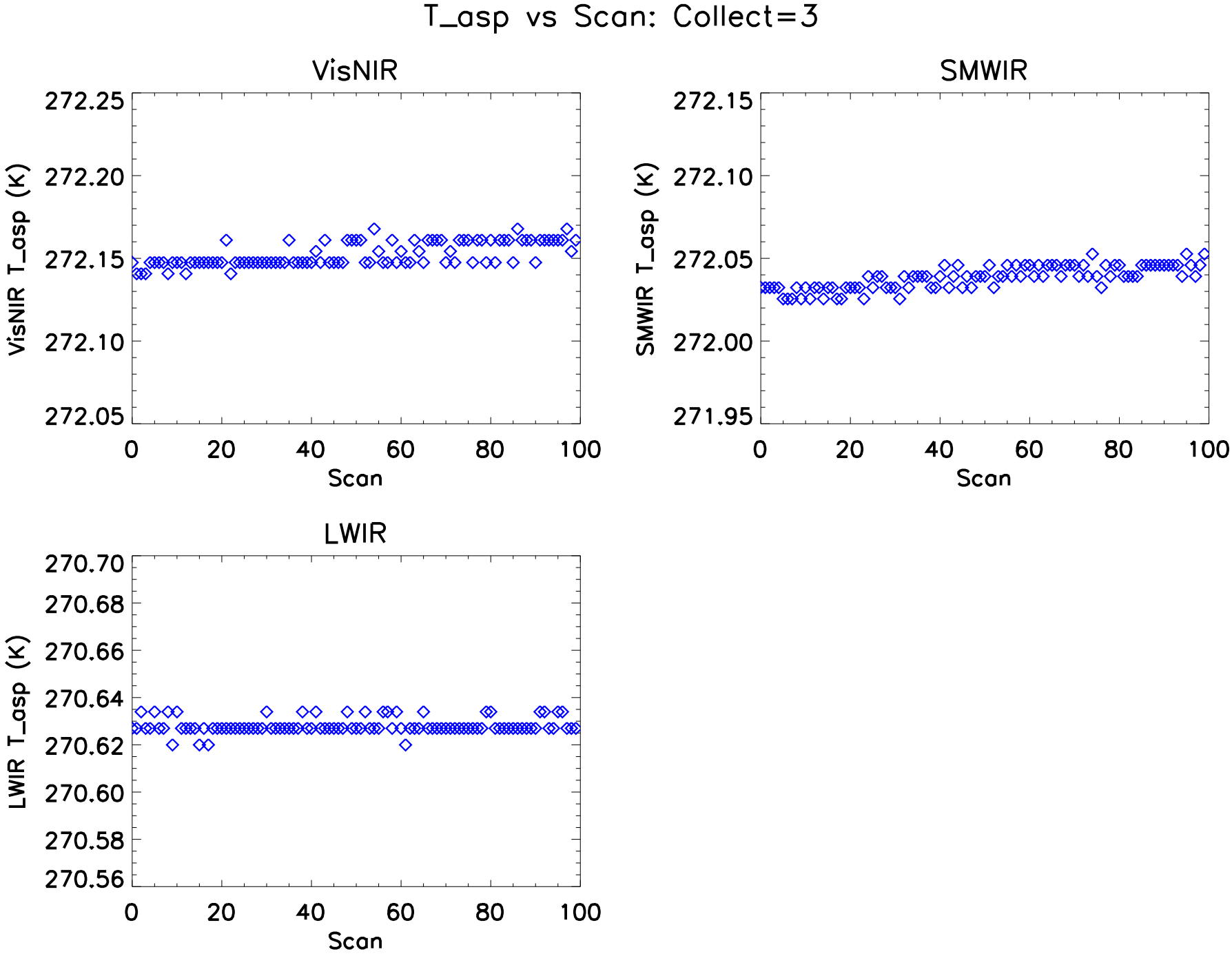

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_osp (K)
Scan

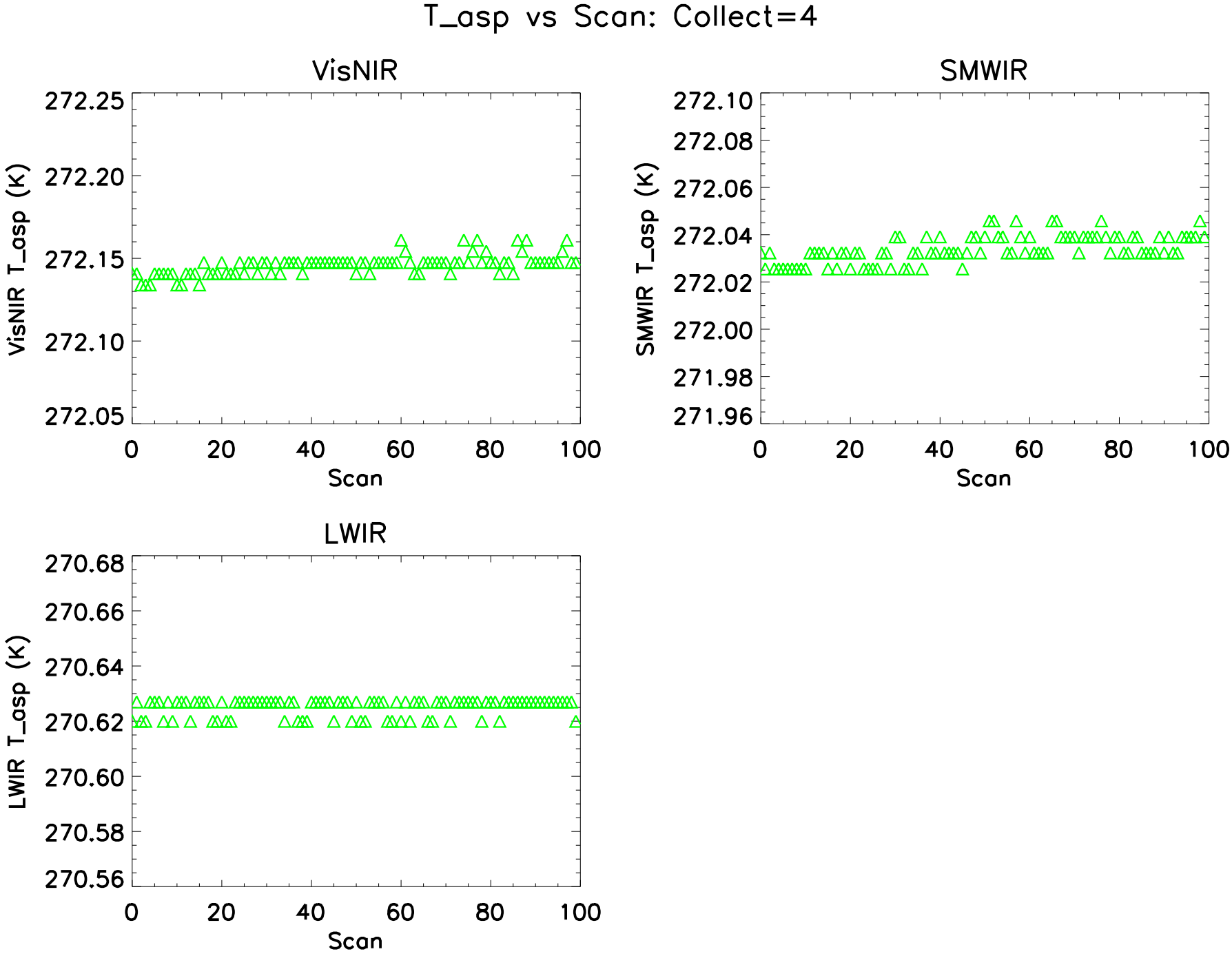
LWIR T_asp vs Scan

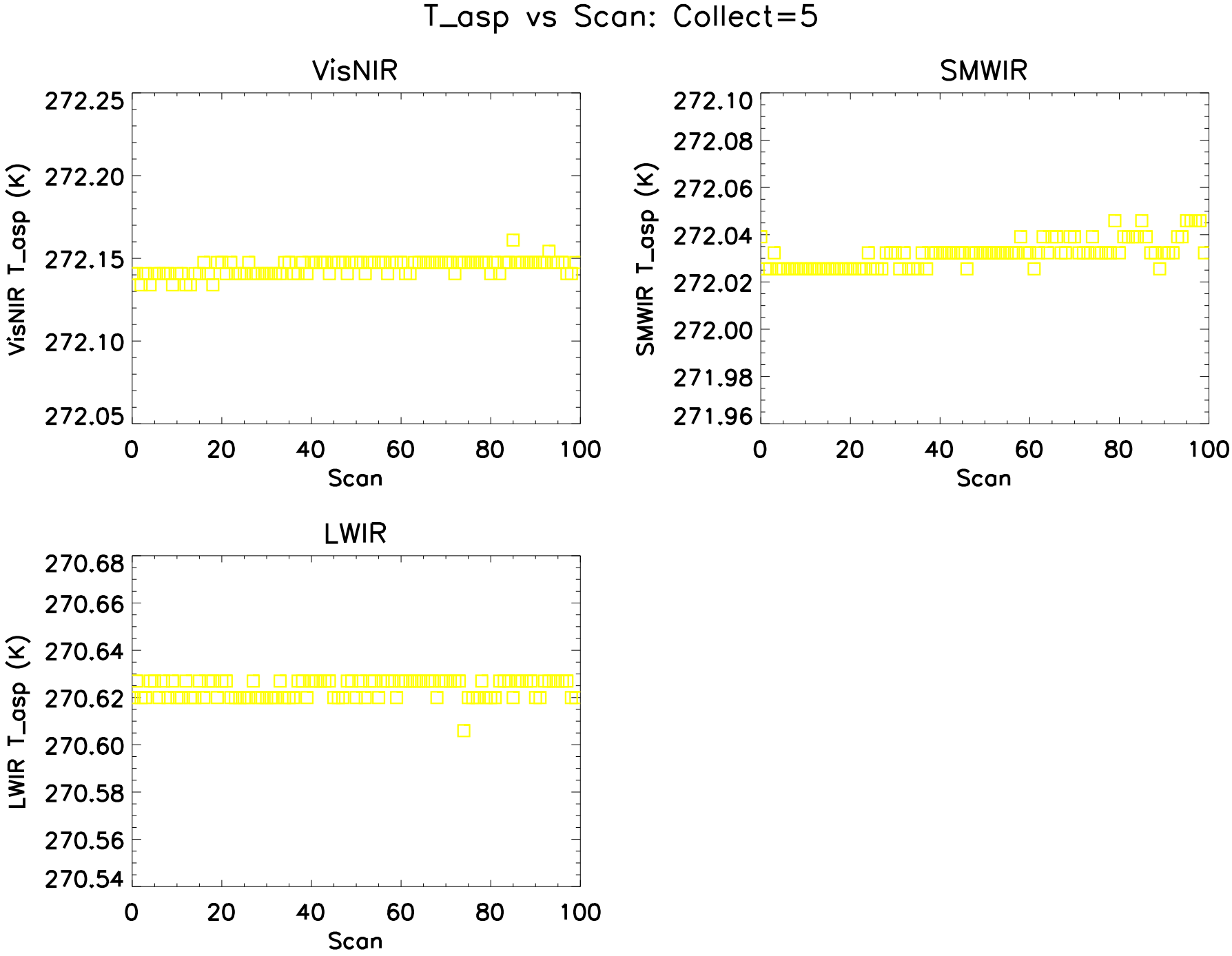


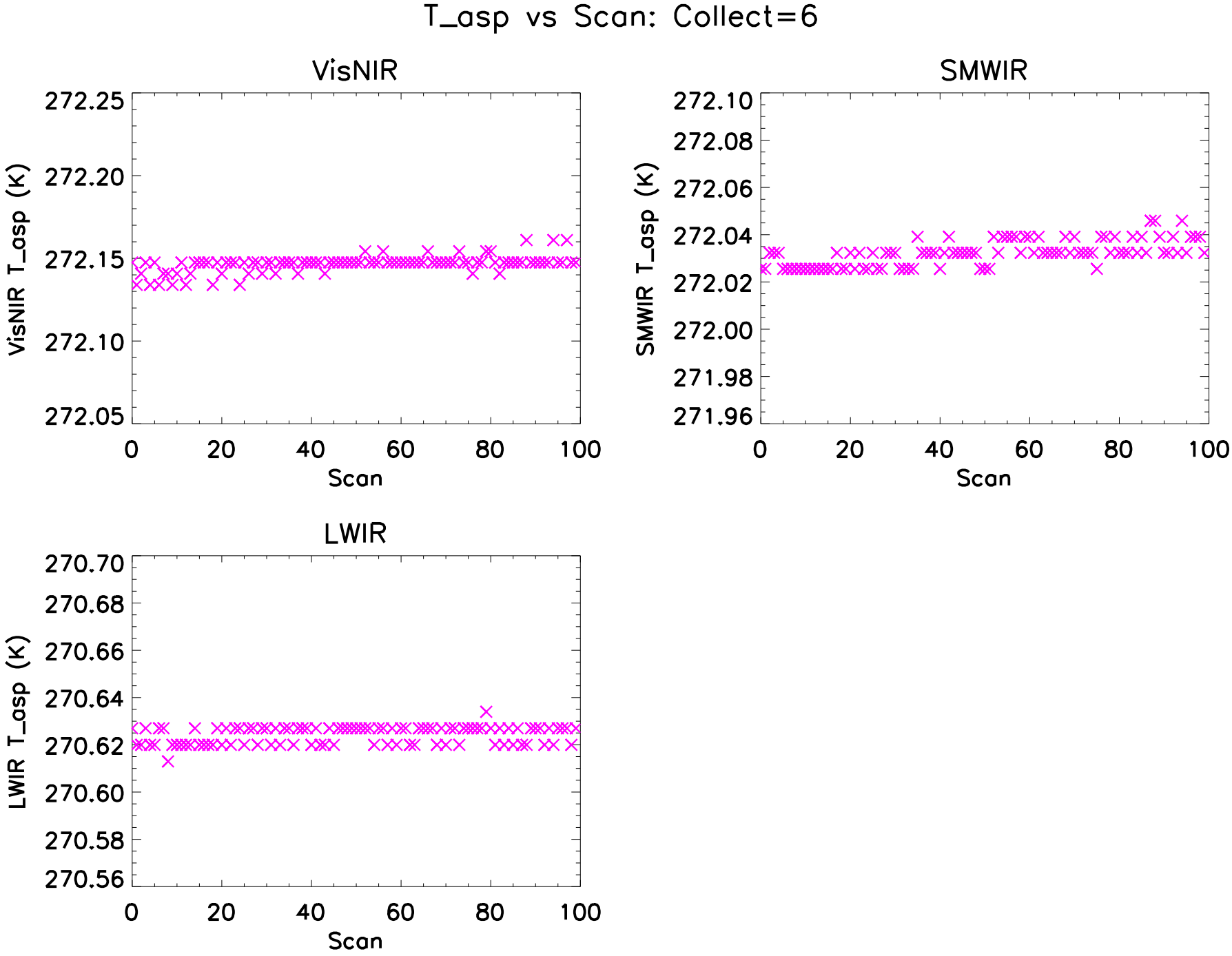

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
272.24
272.22
272.20
272.18
272.16
272.14
272.12
272.10
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.12
272.10
272.08
272.06
272.04
272.02
272.00
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.70
270.68
270.66
270.64
270.62
270.60
270.58
0
20
40
60
80
100
Scan

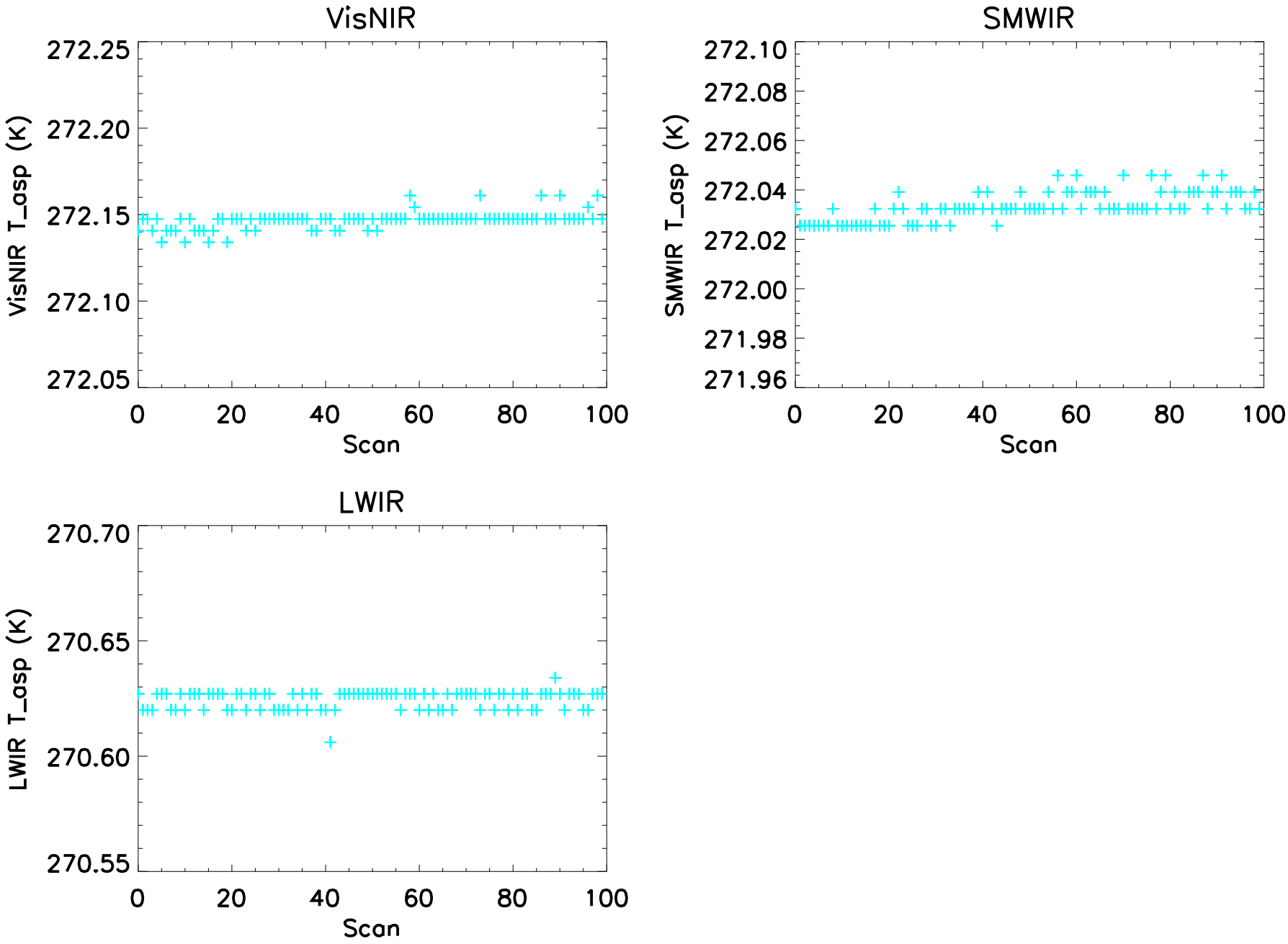

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
272.22
272.20
272.18
272.16
272.14
272.12
272.10
272.08
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.15
272.10
272.05
272.00
271.95
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.70
270.68
270.66
270.64
270.62
270.60
270.58
270.56
0
20
40
60
80
100
Scan

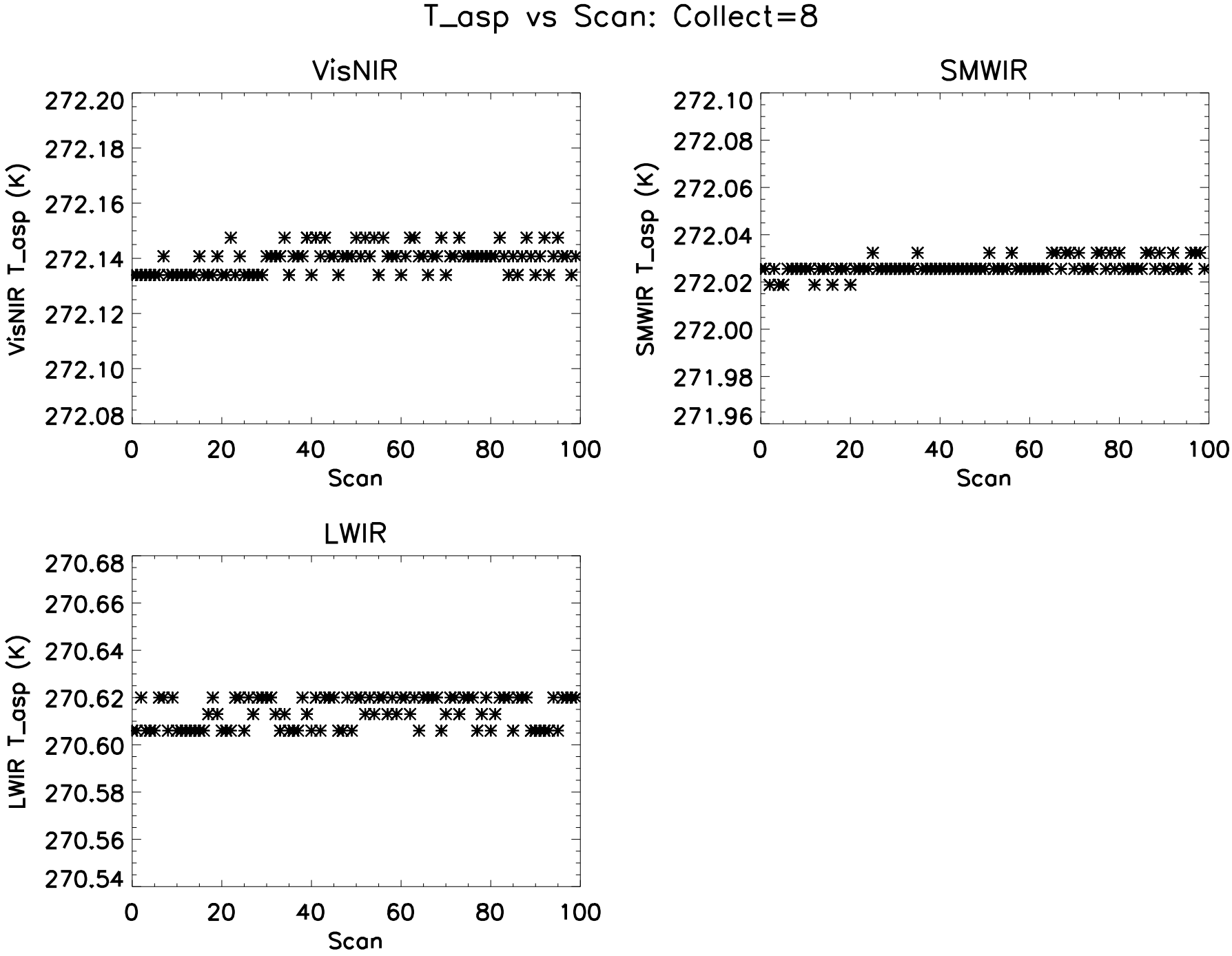

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.15
272.10
272.05
272.00
271.95
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.70
270.68
270.66
270.64
270.62
270.60
270.58
270.56
0
20
40
60
80
100
Scan

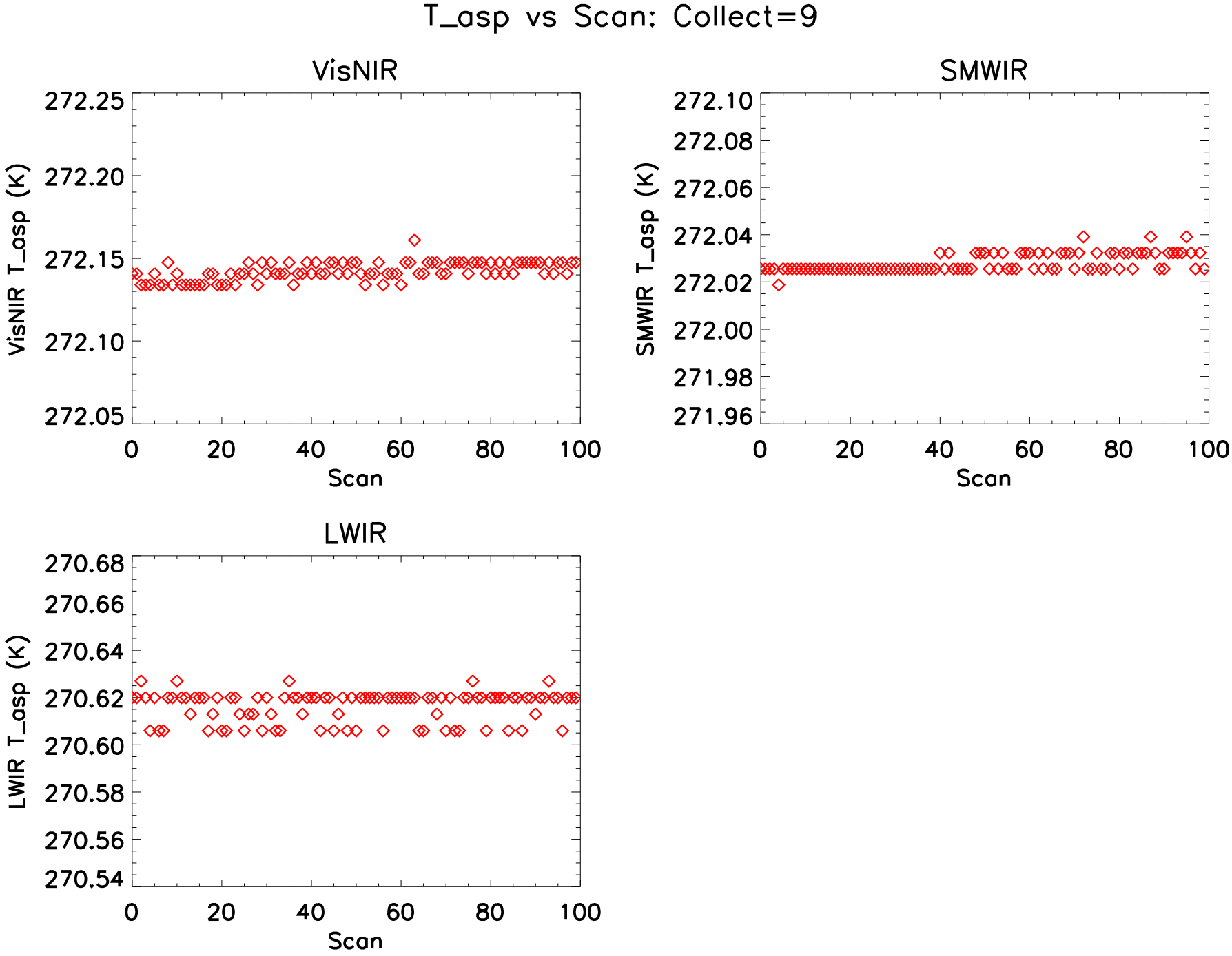

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.08
272.06
272.04
272.02
272.00
271.98
271.96
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.68
270.66
270.64
270.62
270.60
270.58
270.56
0
20
40
60
80
100
Scan

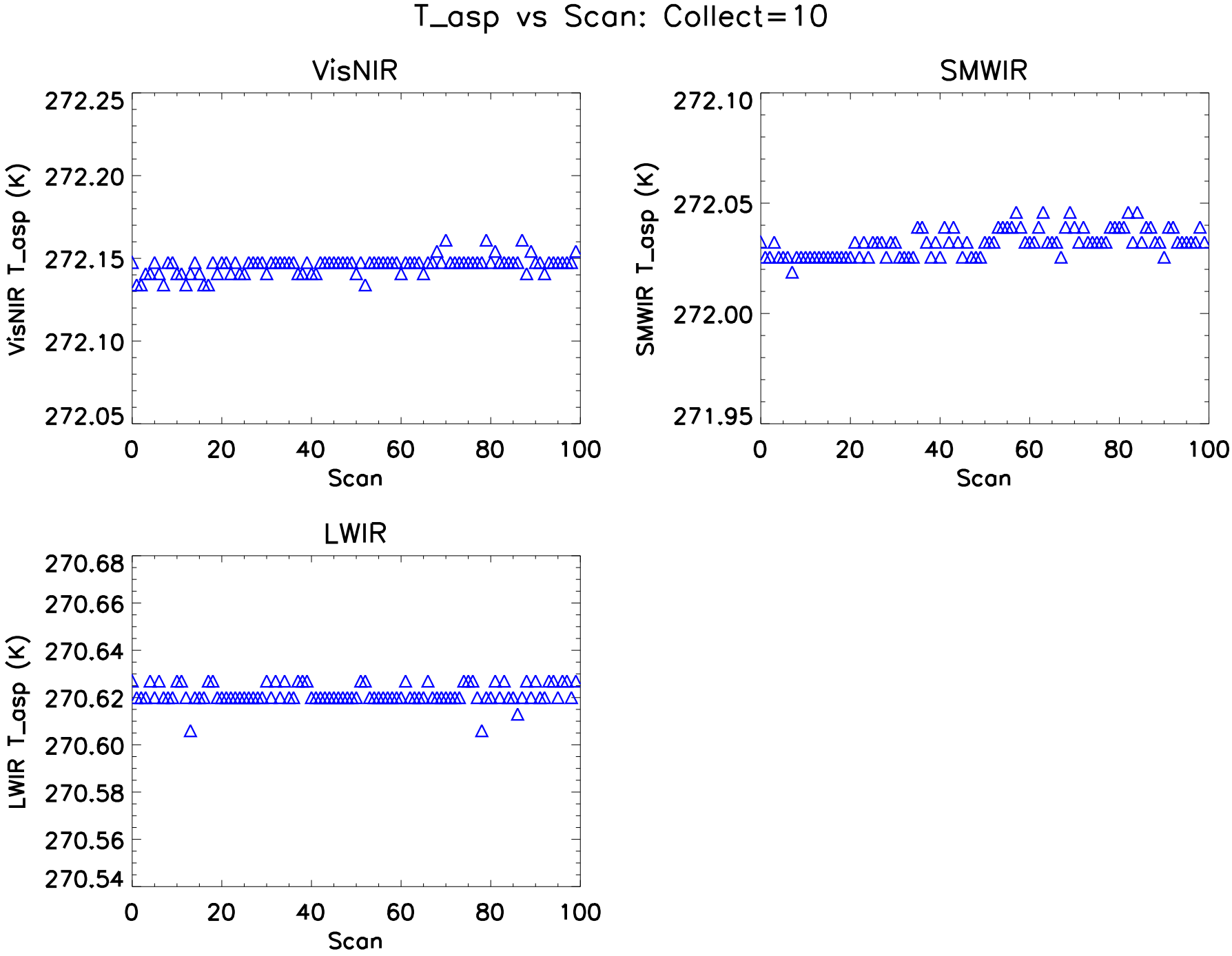

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.08
272.06
272.04
272.02
272.00
271.98
271.96
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.68
270.66
270.64
270.62
270.60
270.58
270.56
270.54
0
20
40
60
80
100
Scan

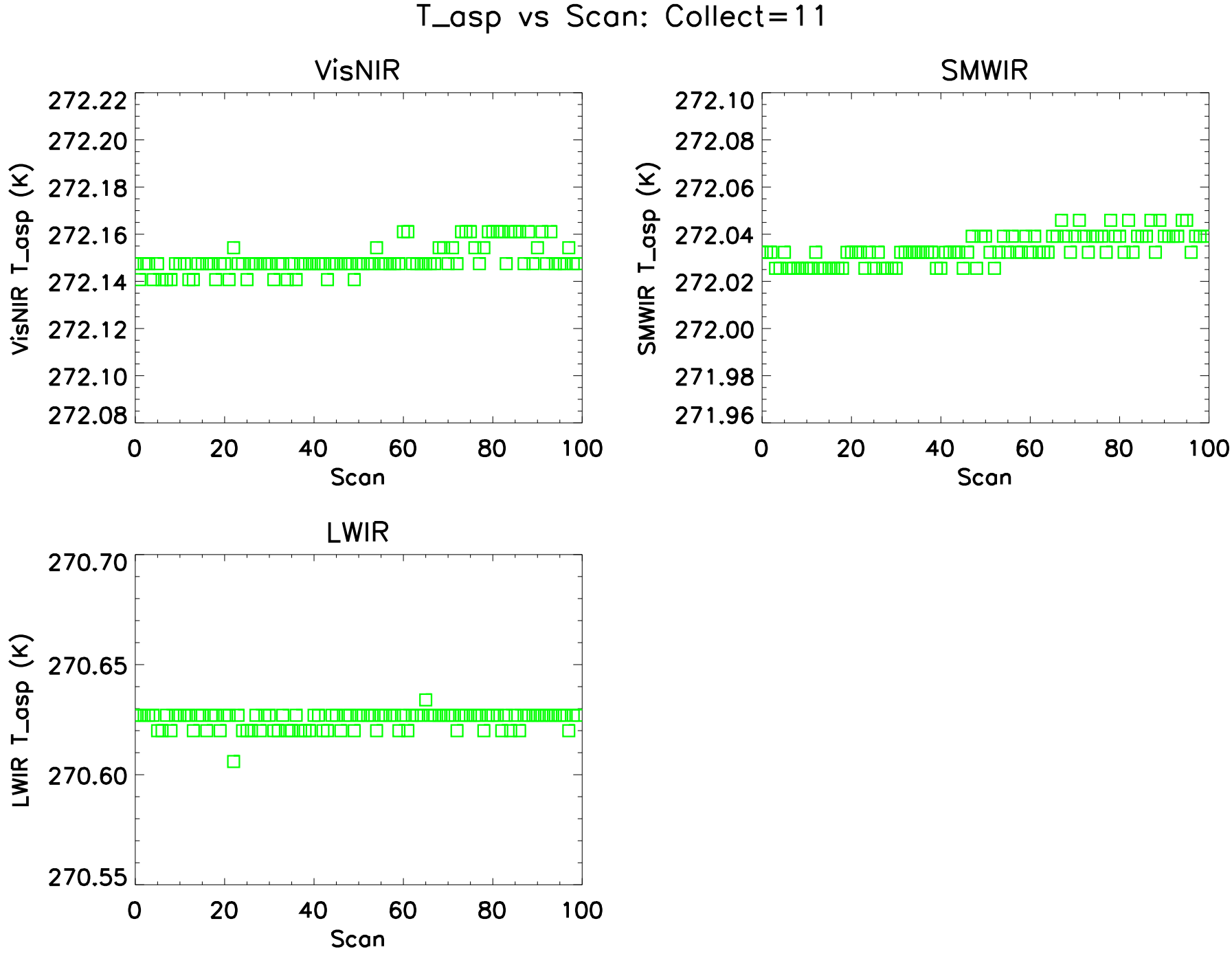

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.08
272.06
272.04
272.02
272.00
271.98
271.96
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.70
270.68
270.66
270.64
270.62
270.60
270.58
270.56
0
20
40
60
80
100
Scan

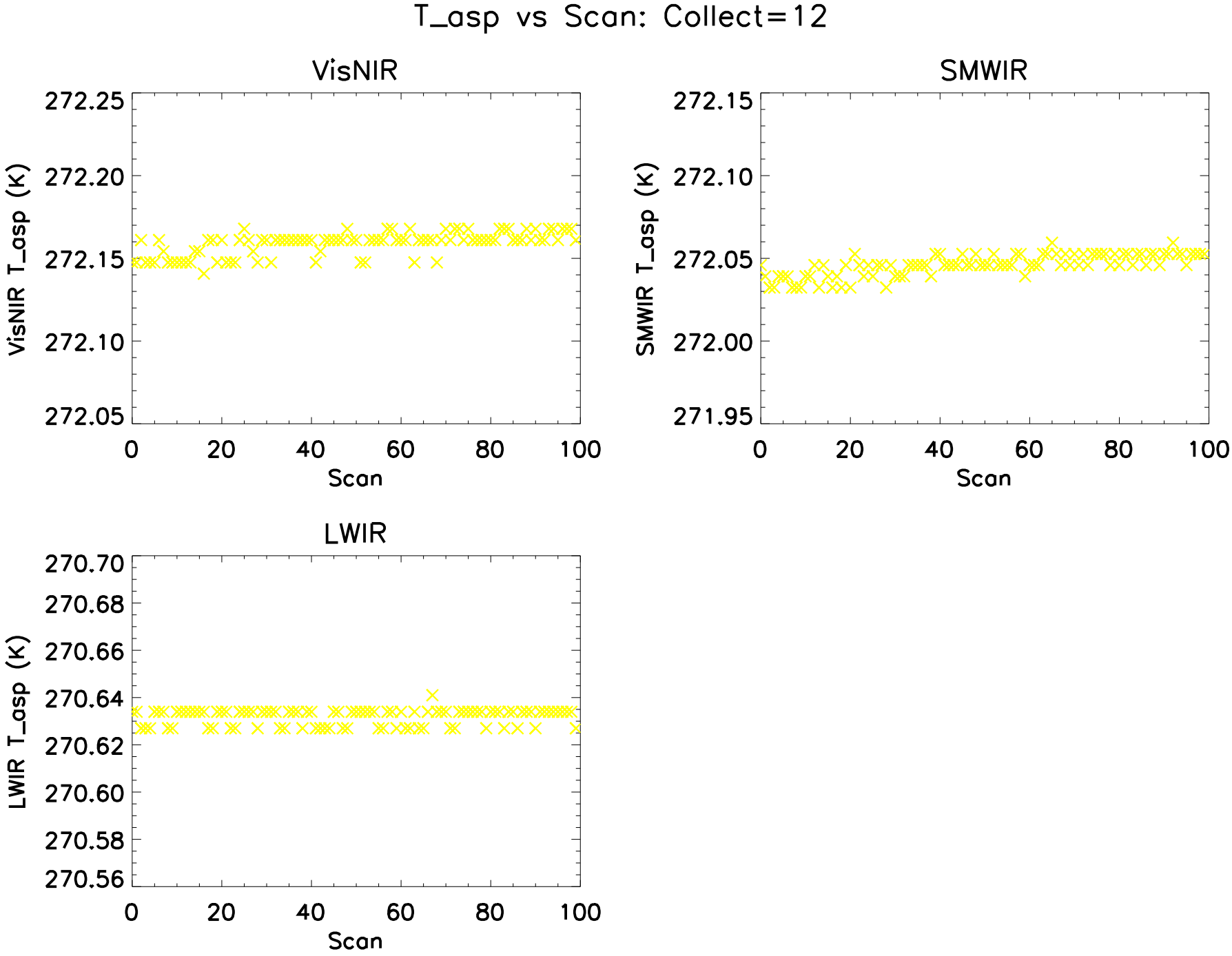

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.08
272.06
272.04
272.02
272.00
271.98
271.96
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.70
270.65
270.60
270.55
0
20
40
60
80
100
Scan

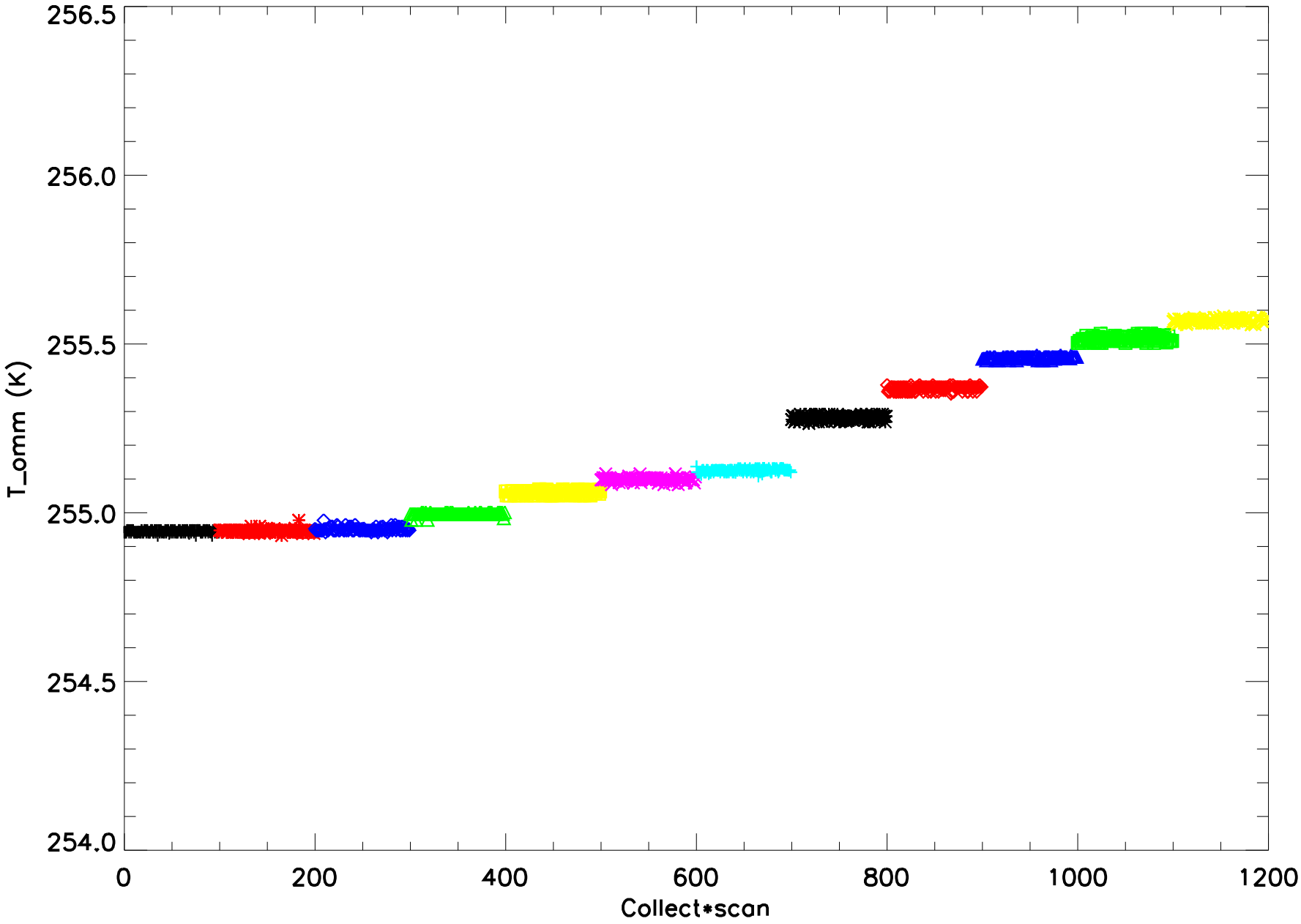

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
272.20
272.18
272.16
272.14
272.12
272.10
272.08
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.08
272.06
272.04
272.02
272.00
271.98
271.96
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.68
270.66
270.64
270.62
270.60
270.58
270.56
270.54
0
20
40
60
80
100
Scan

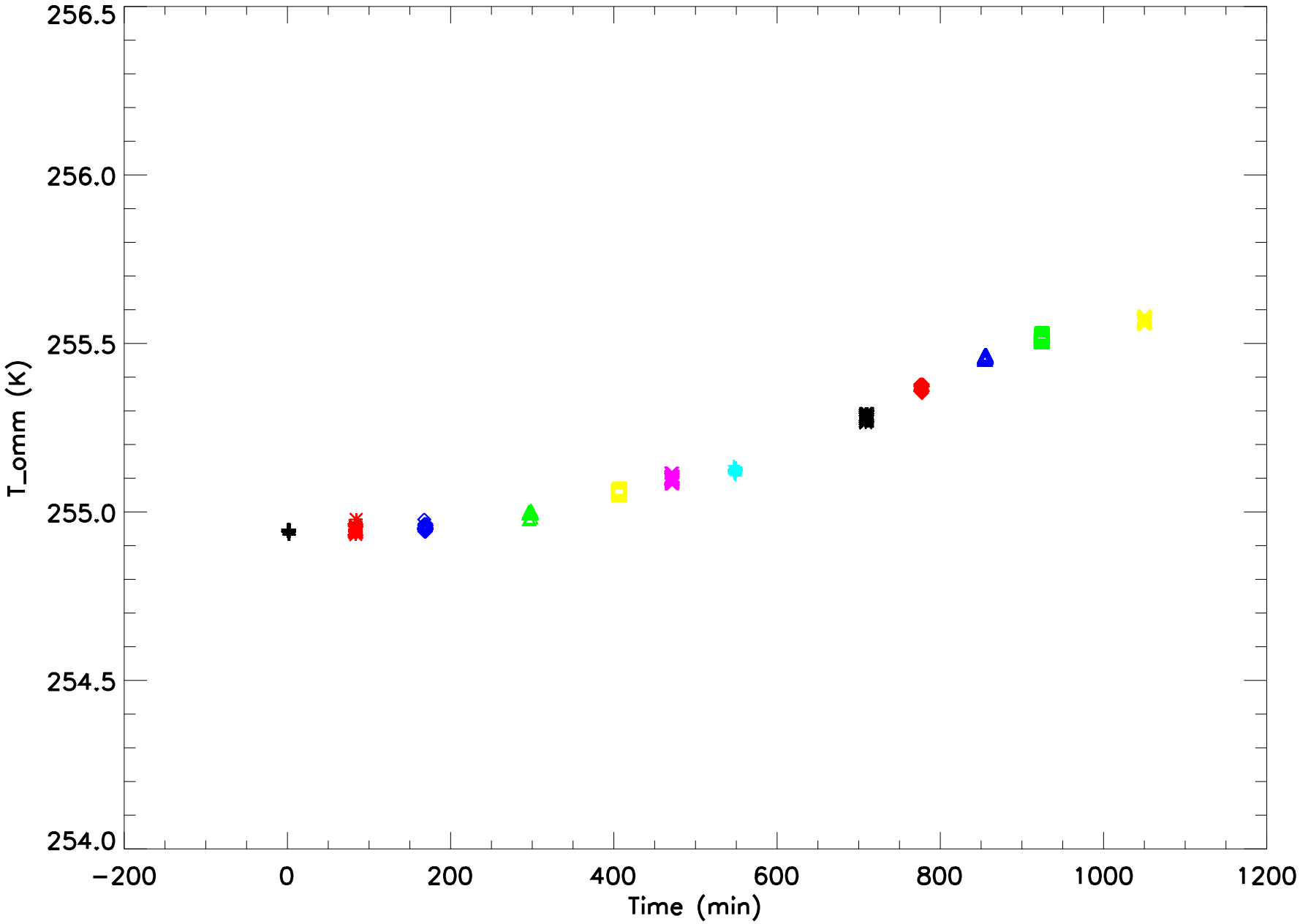

T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.08
272.06
272.04
272.02
272.00
271.98
271.96
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.68
270.66
270.64
270.62
270.60
270.58
270.56
270.54
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.05
272.00
271.95
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.68
270.66
270.64
270.62
270.60
270.58
270.56
270.54
0
20
40
60
80
100
Scan

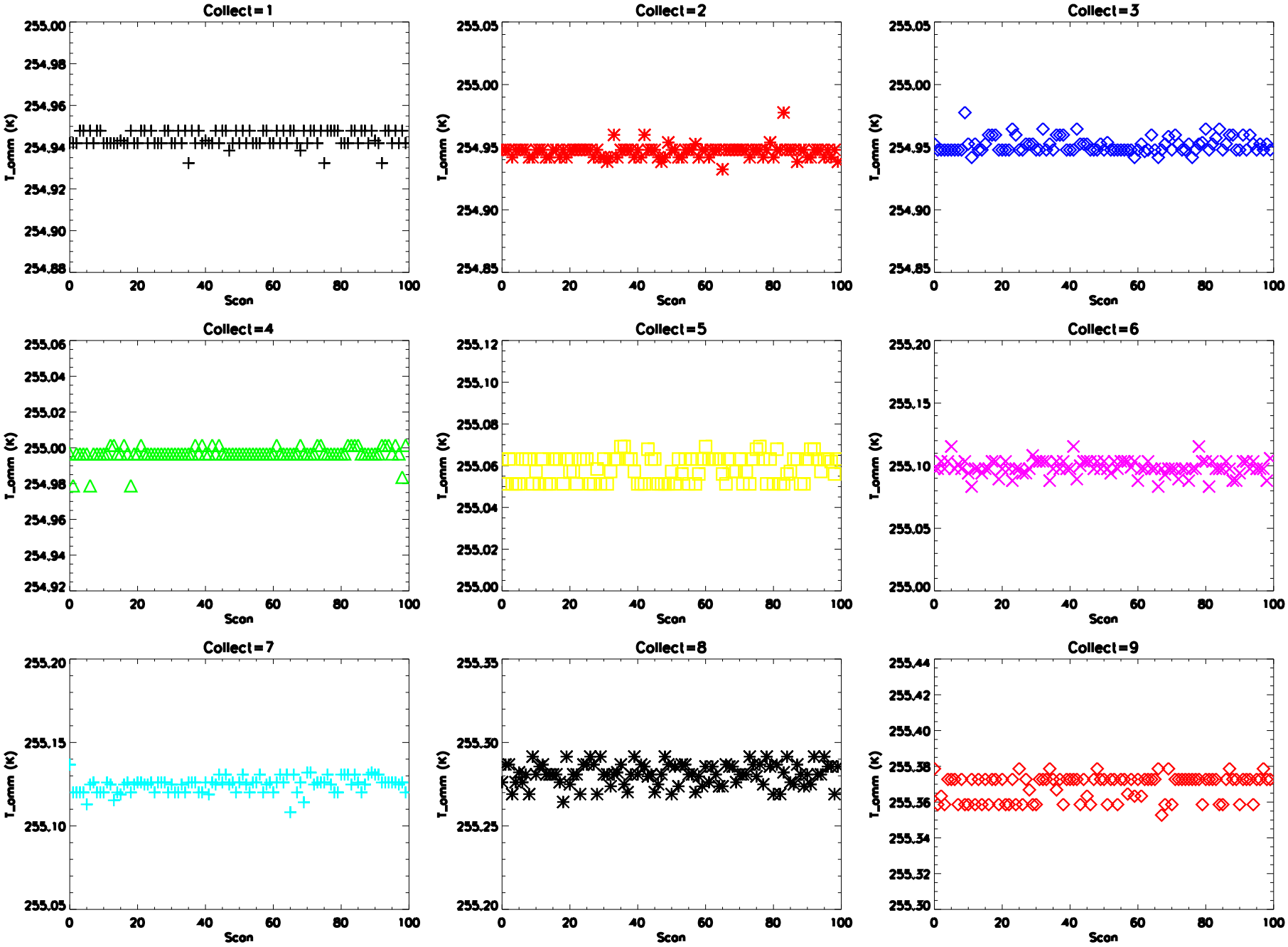

T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
272.22
272.20
272.18
272.16
272.14
272.12
272.10
272.08
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.10
272.08
272.06
272.04
272.02
272.00
271.98
271.96
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.70
270.65
270.60
270.55
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=12
VisNIR
VisNIR T_asp (K)
272.25
272.20
272.15
272.10
272.05
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
272.15
272.10
272.05
272.00
271.95
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
270.70
270.68
270.66
270.64
270.62
270.60
270.58
270.56
0
20
40
60
80
100
Scan

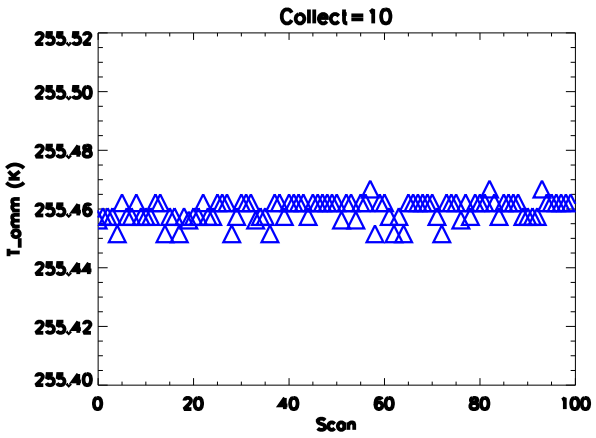

T_omm vs Scan and Collect
256.5
256.0
255.5
255.0
254.5
254.0
T_omm (K)
0
200
400
600
800
1000
1200
Collect*scan

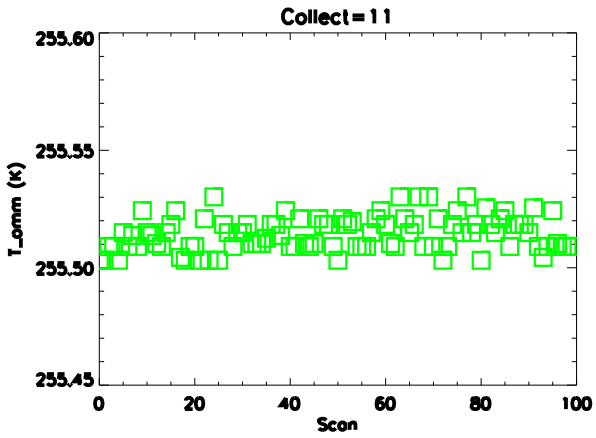

T_omm vs Time
256.5
256.0
255.5
255.0
254.5
254.0
T_omm (K)
−200
0
200
400
600
800
1000
1200
Time (min)

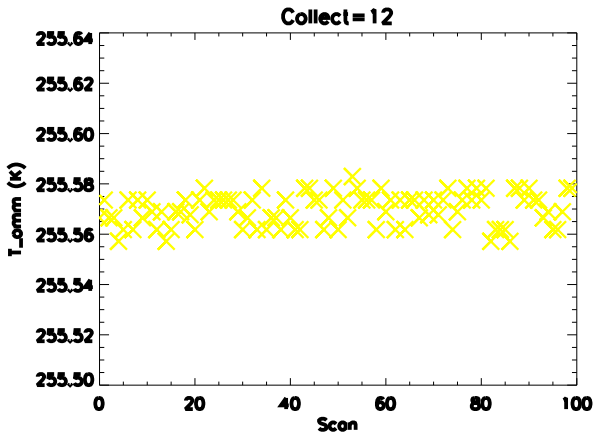
T_omm vs Scan


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
T_omm (K)
255.52
255.50
255.48
255.46
255.44
255.42
255.40
0
20
40
60
80
100
Scan


Collect = 11
T_omm (K)
255.60
255.55
255.50
255.45
0
20
40
60
80
100
Scan


Collect = 12
T_omm (K)
255.64
255.62
255.60
255.58
255.56
255.54
255.52
255.50
0
20
40
60
80
100
Scan