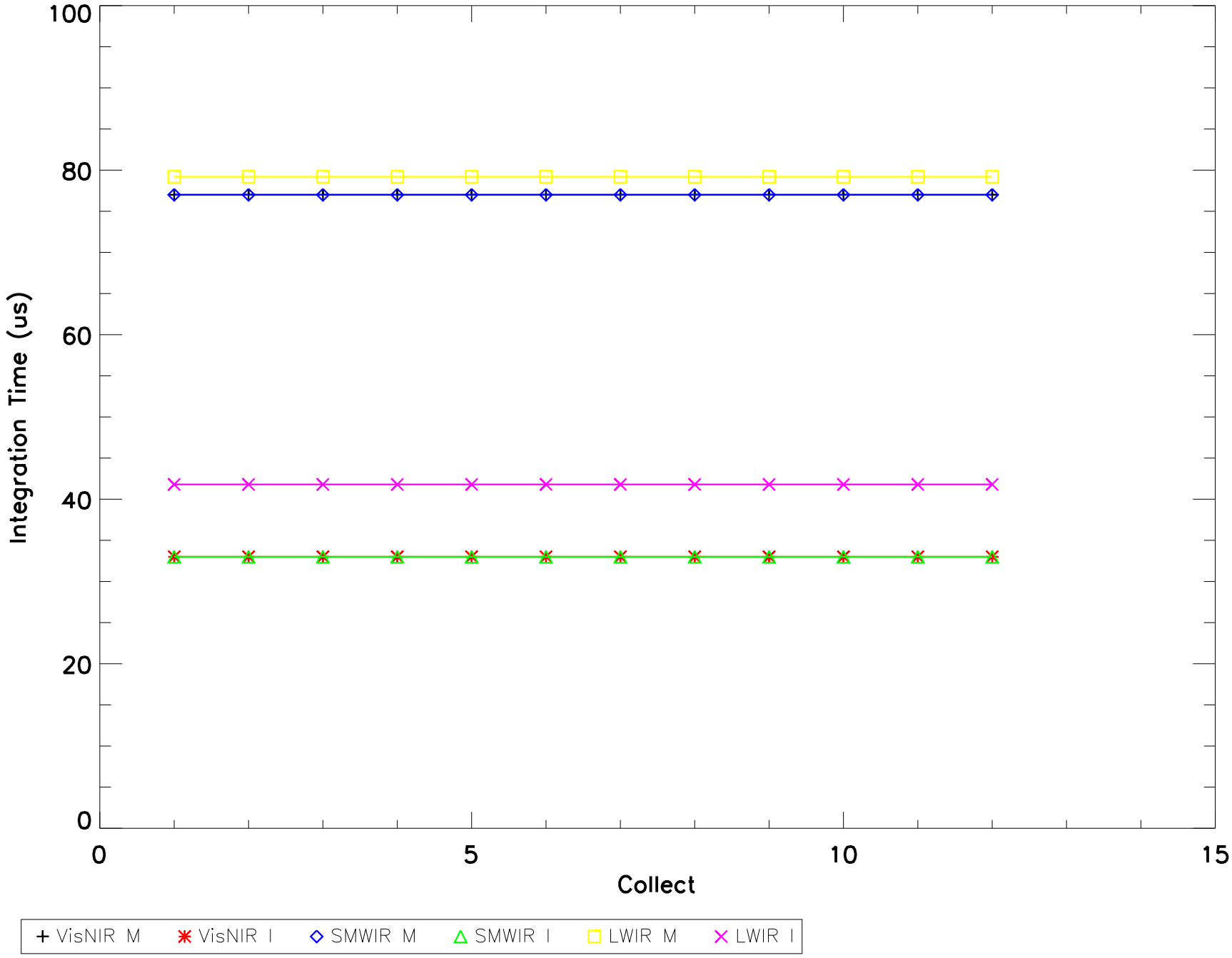
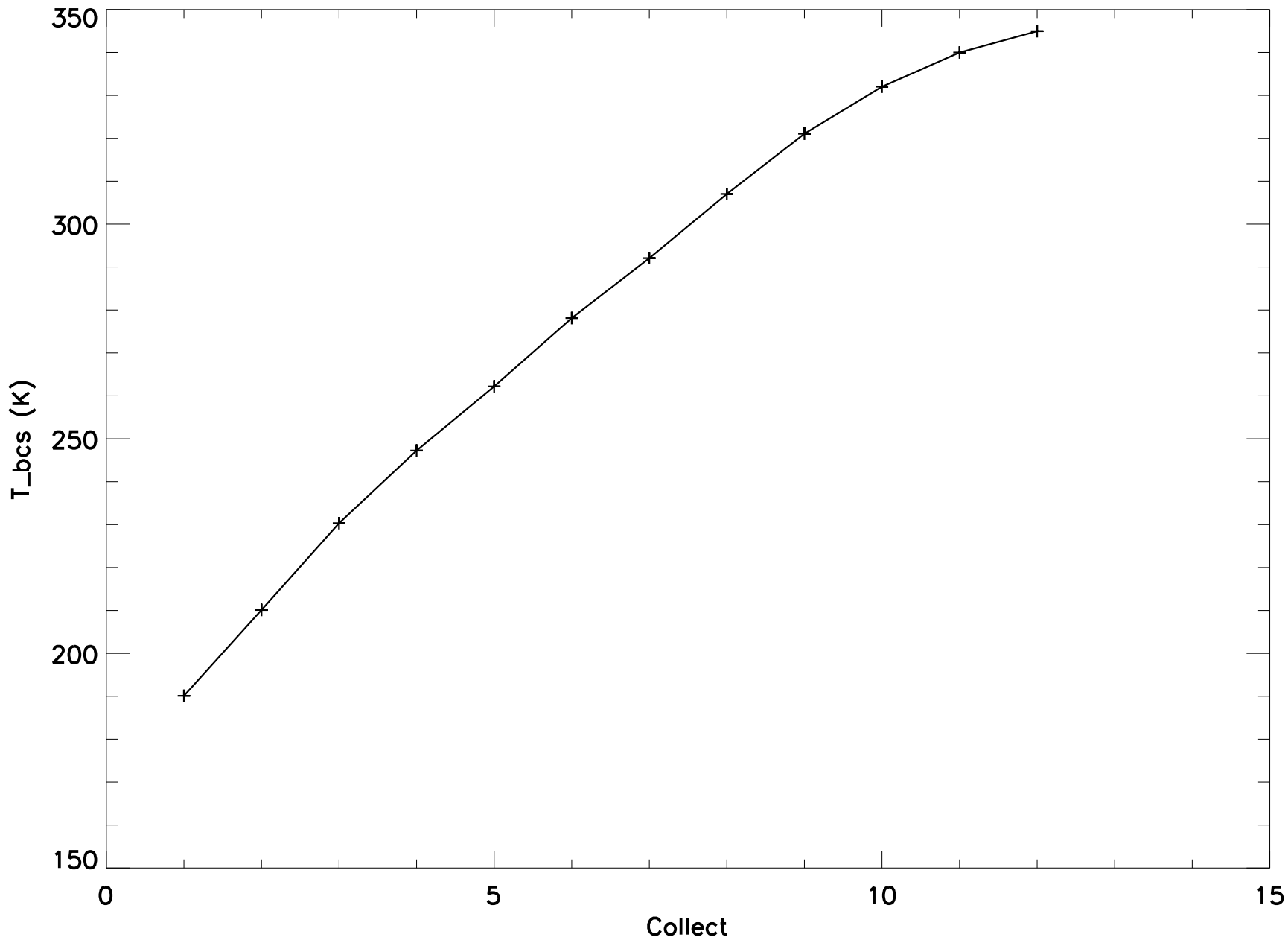
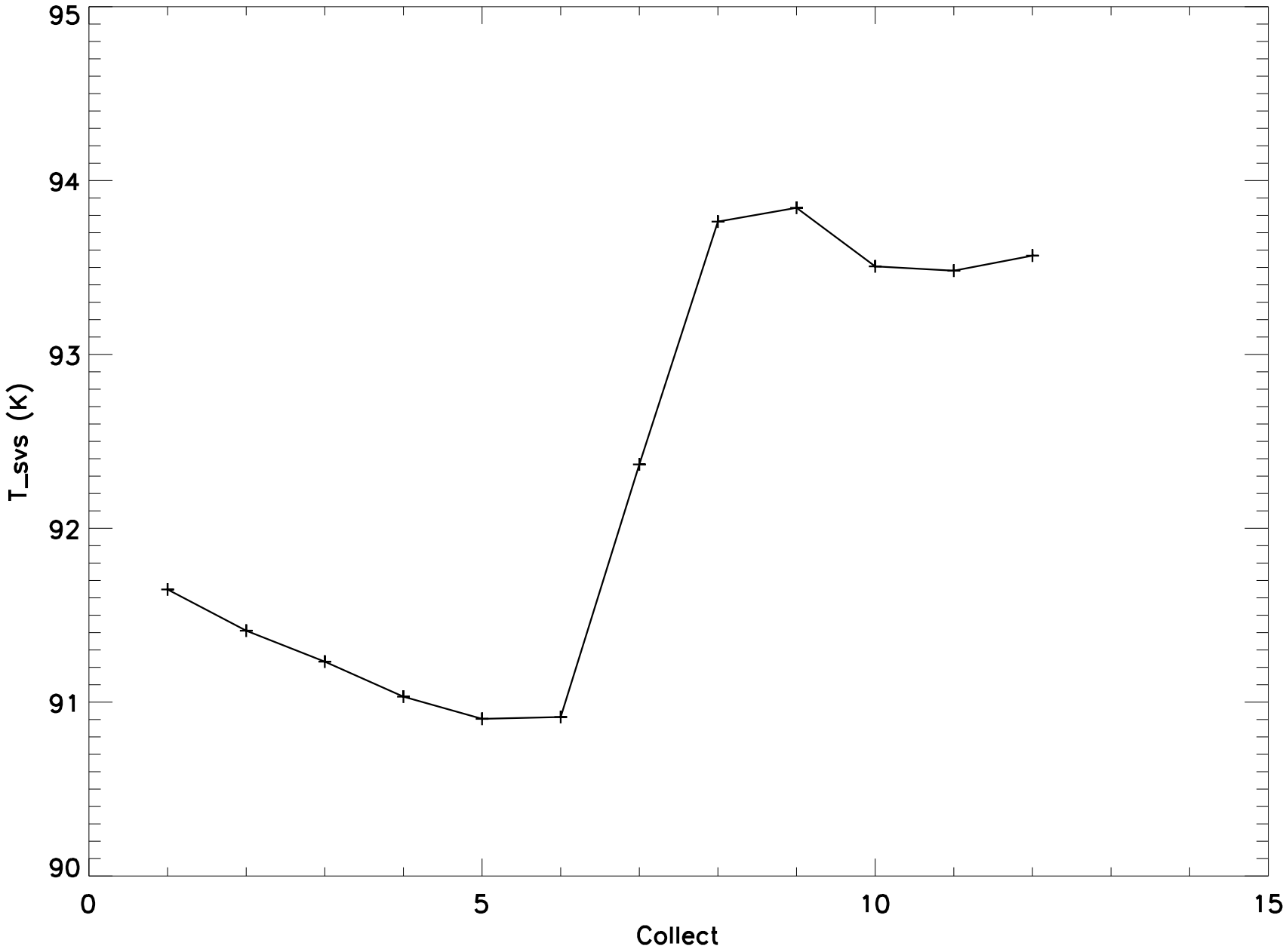
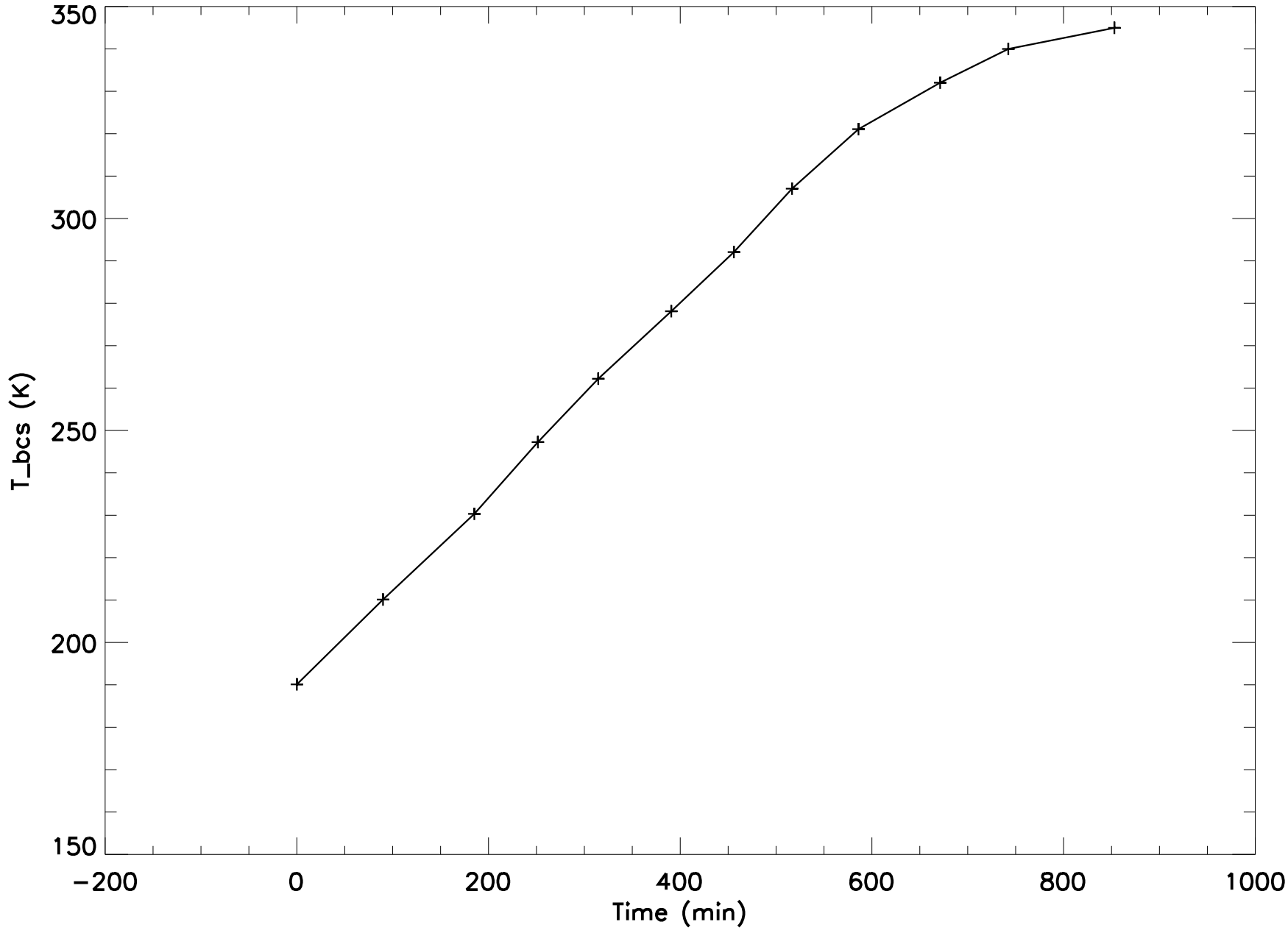
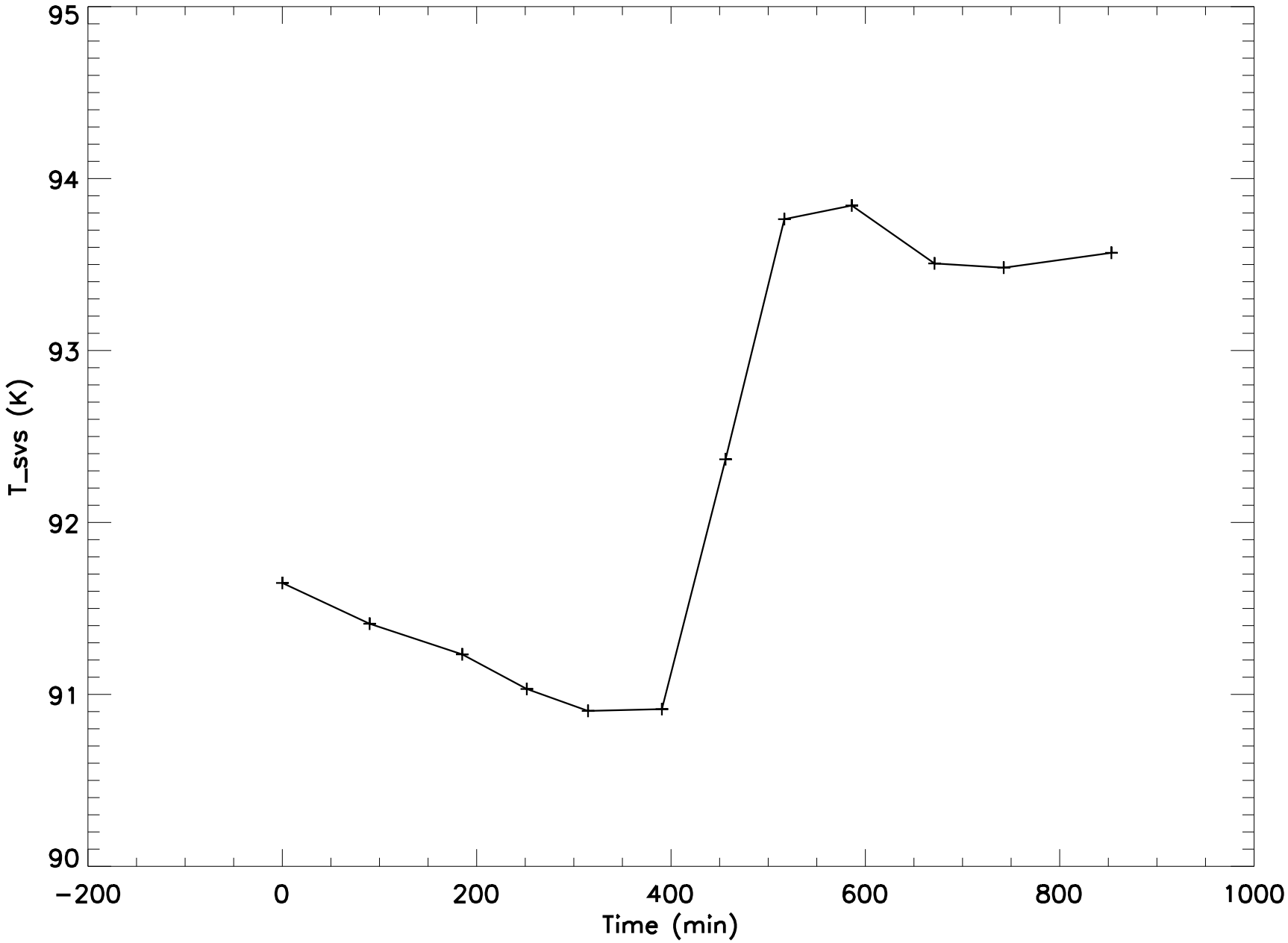
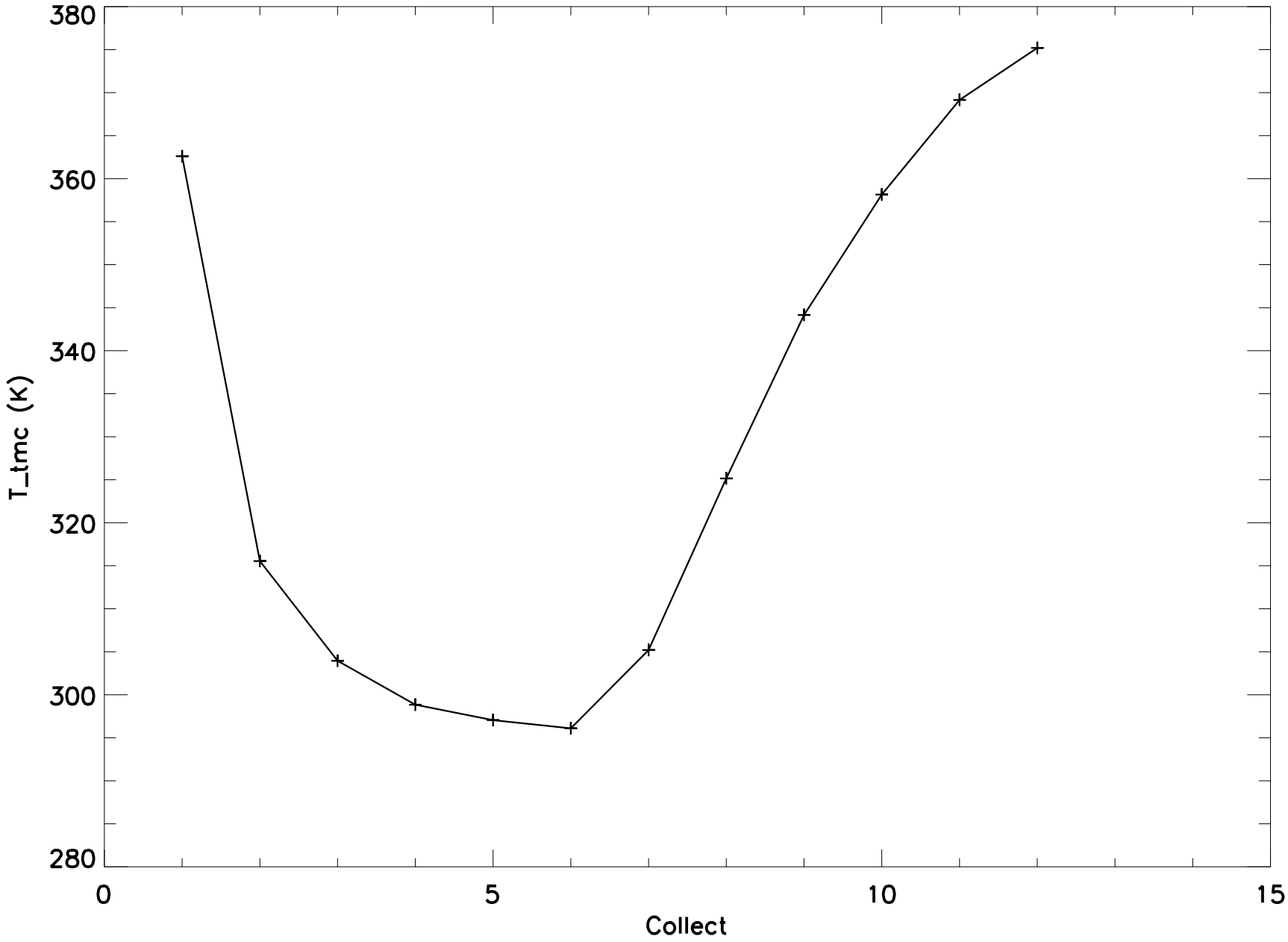

Integration Time vs Collect
Integration Time (us)
100
80
60
40
20
0
0
5
10
15
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I

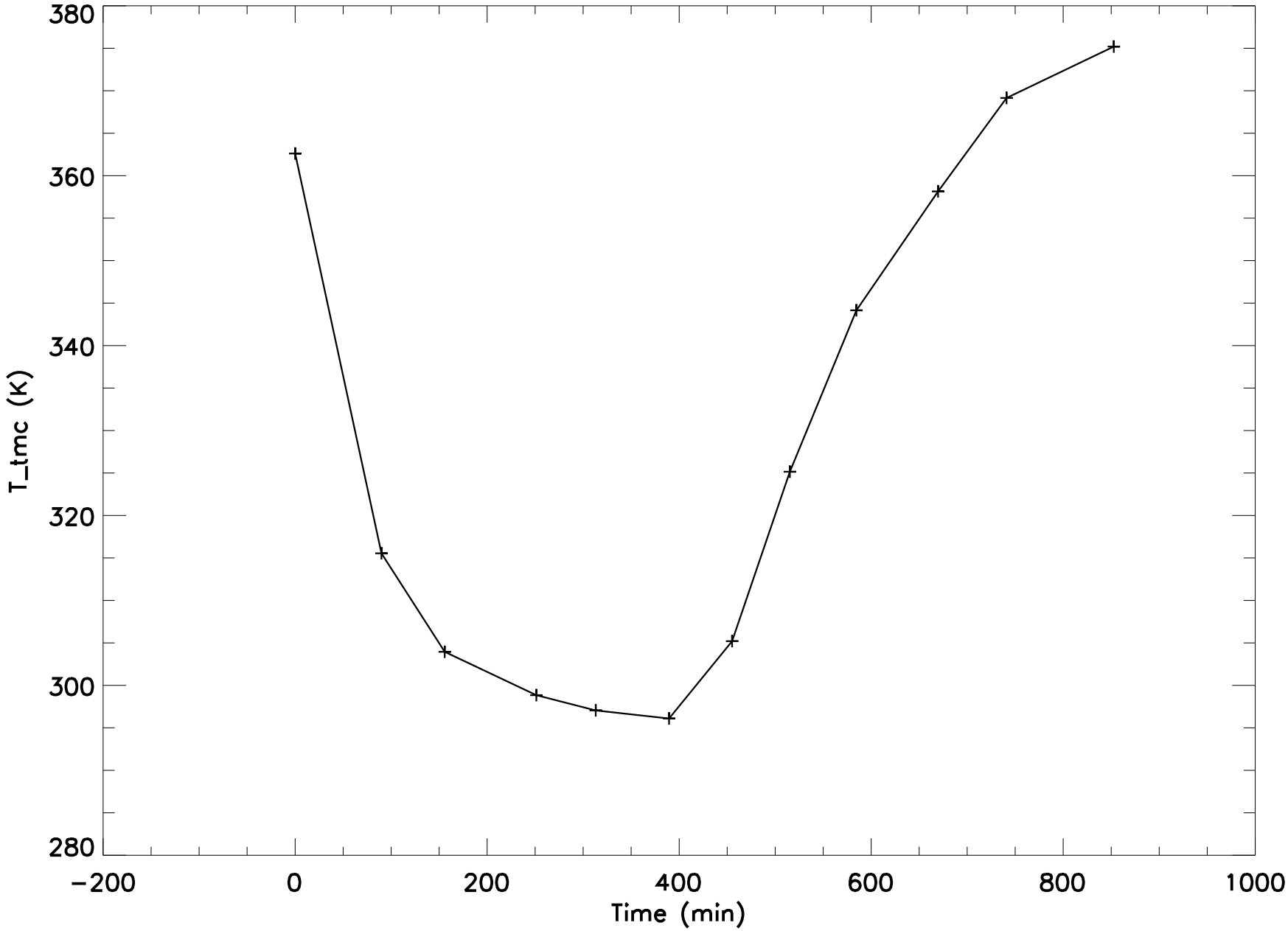

T_bcs vs Collect
350
300
250
200
150
T_bcs (K)
0
5
10
15
Collect

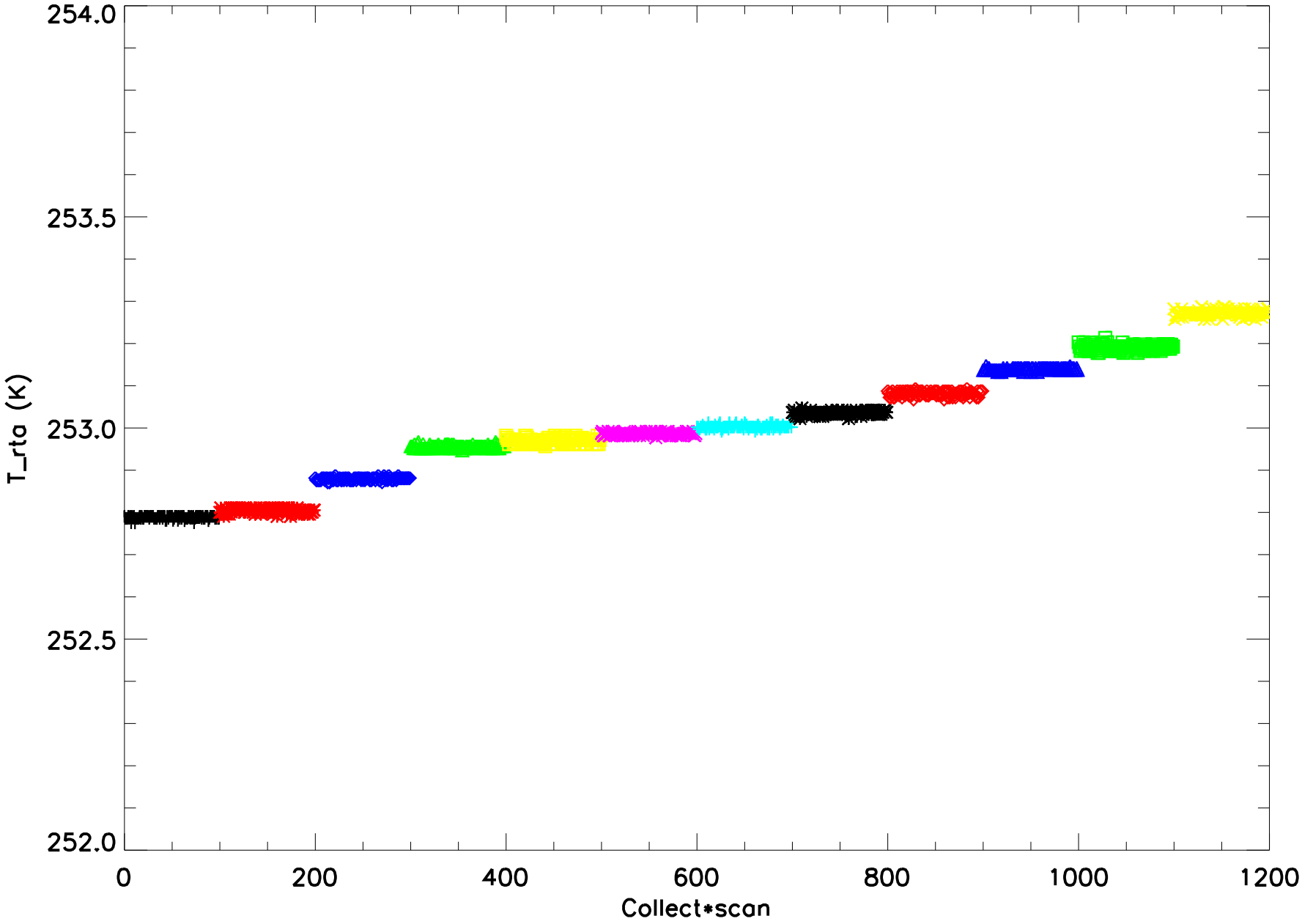

T_svs vs Collect
95
94
93
92
91
90
T_svs (K)
0
5
10
15
Collect

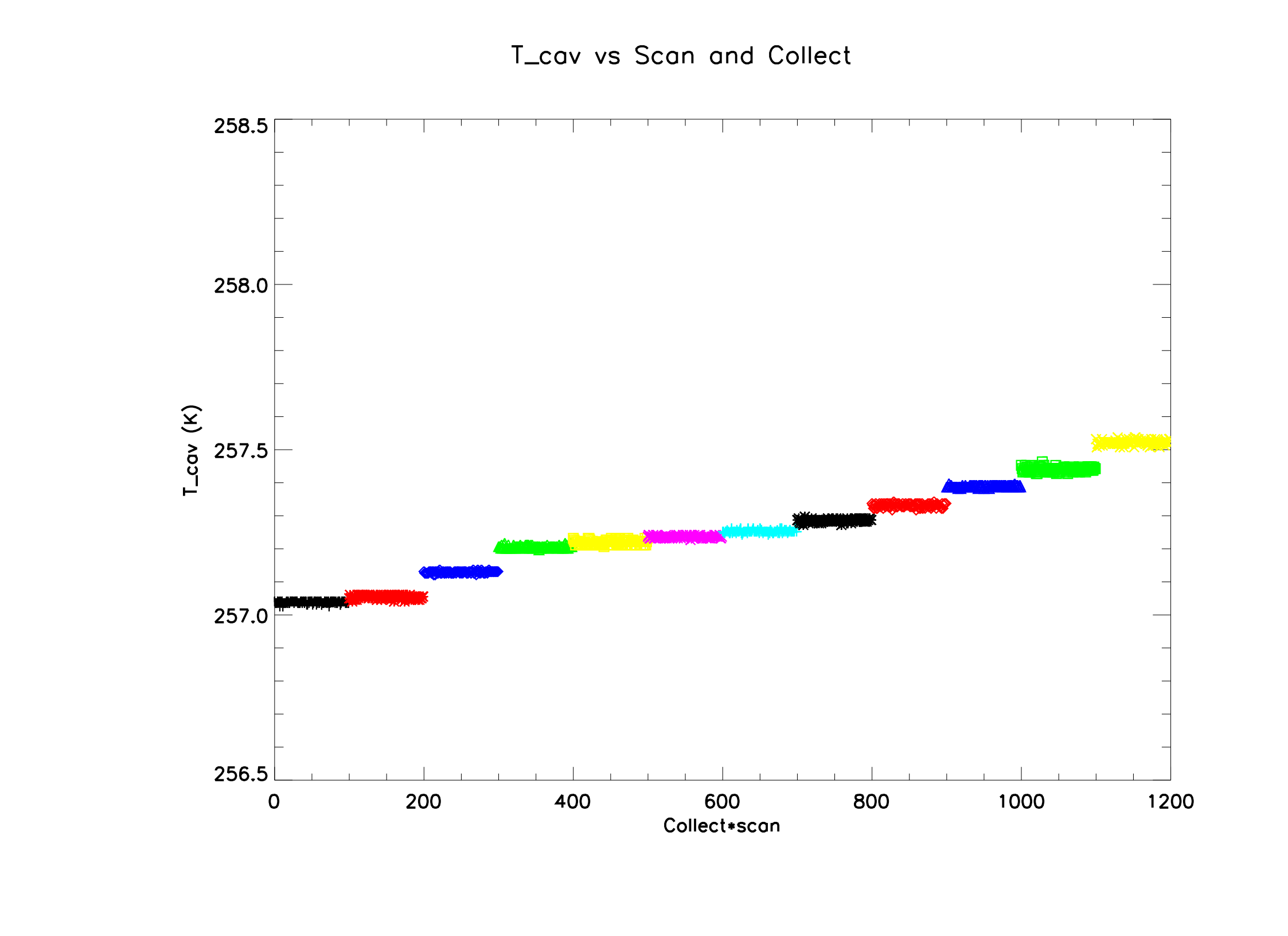

T_bcs vs Time
350
300
250
200
150
T_bcs (K)
−200
0
200
400
600
800
1000
Time (min)

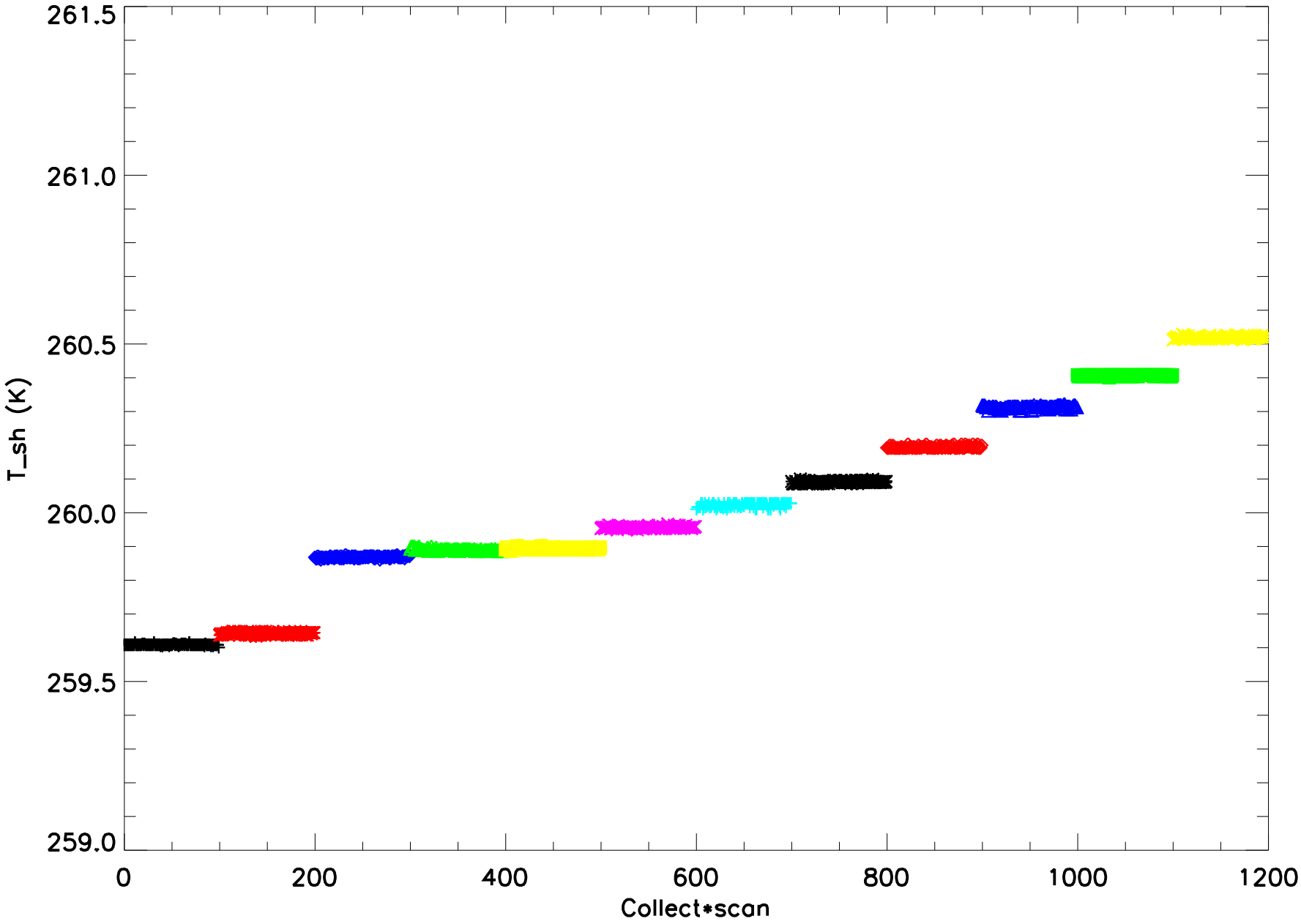

T_svs vs Time
95
94
93
92
91
90
T_svs (K)
−200
0
200
400
600
800
1000
Time (min)

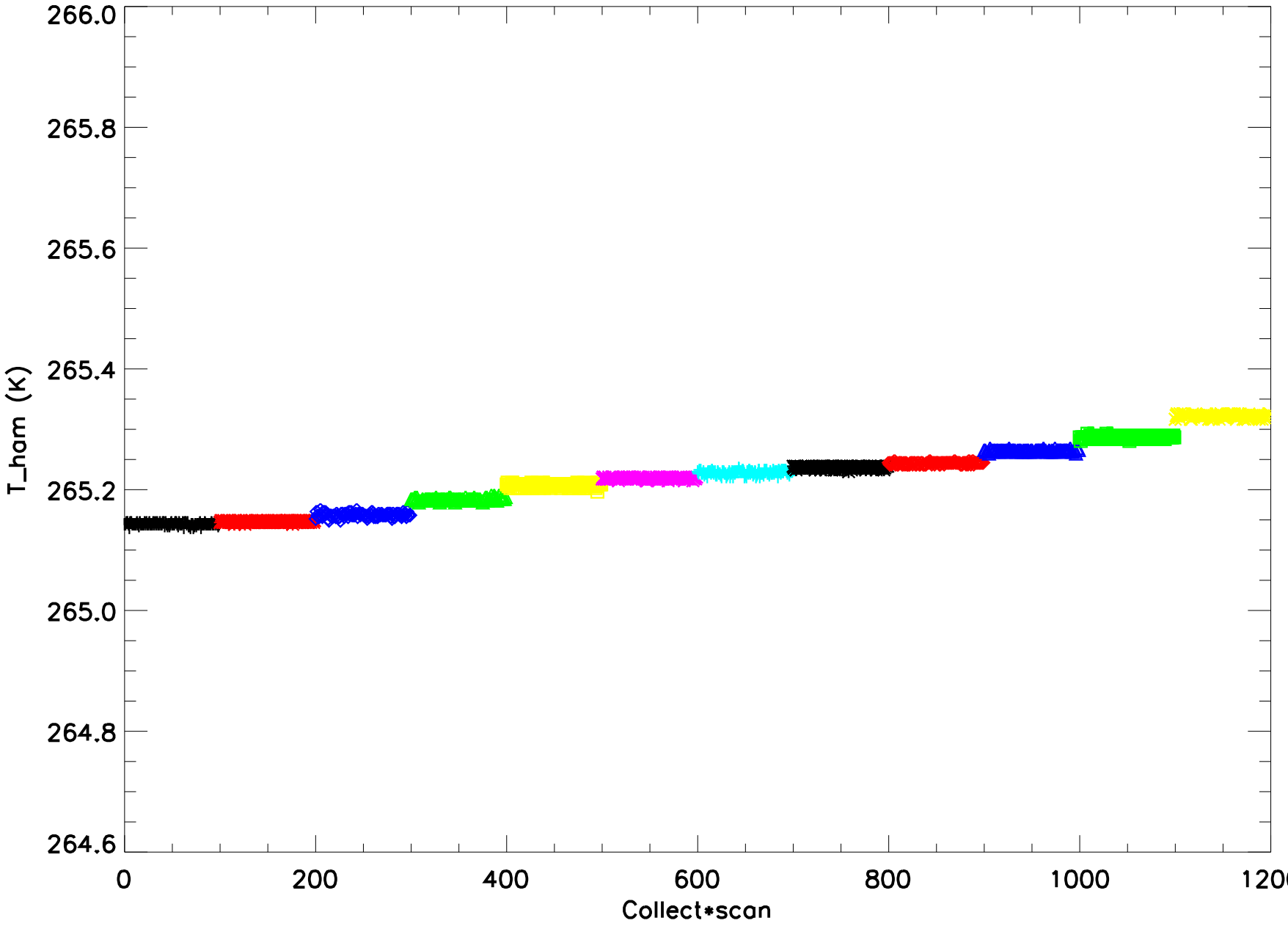

T_tmc vs Collect
380
360
340
320
300
280
T_tmc (K)
0
5
10
15
Collect

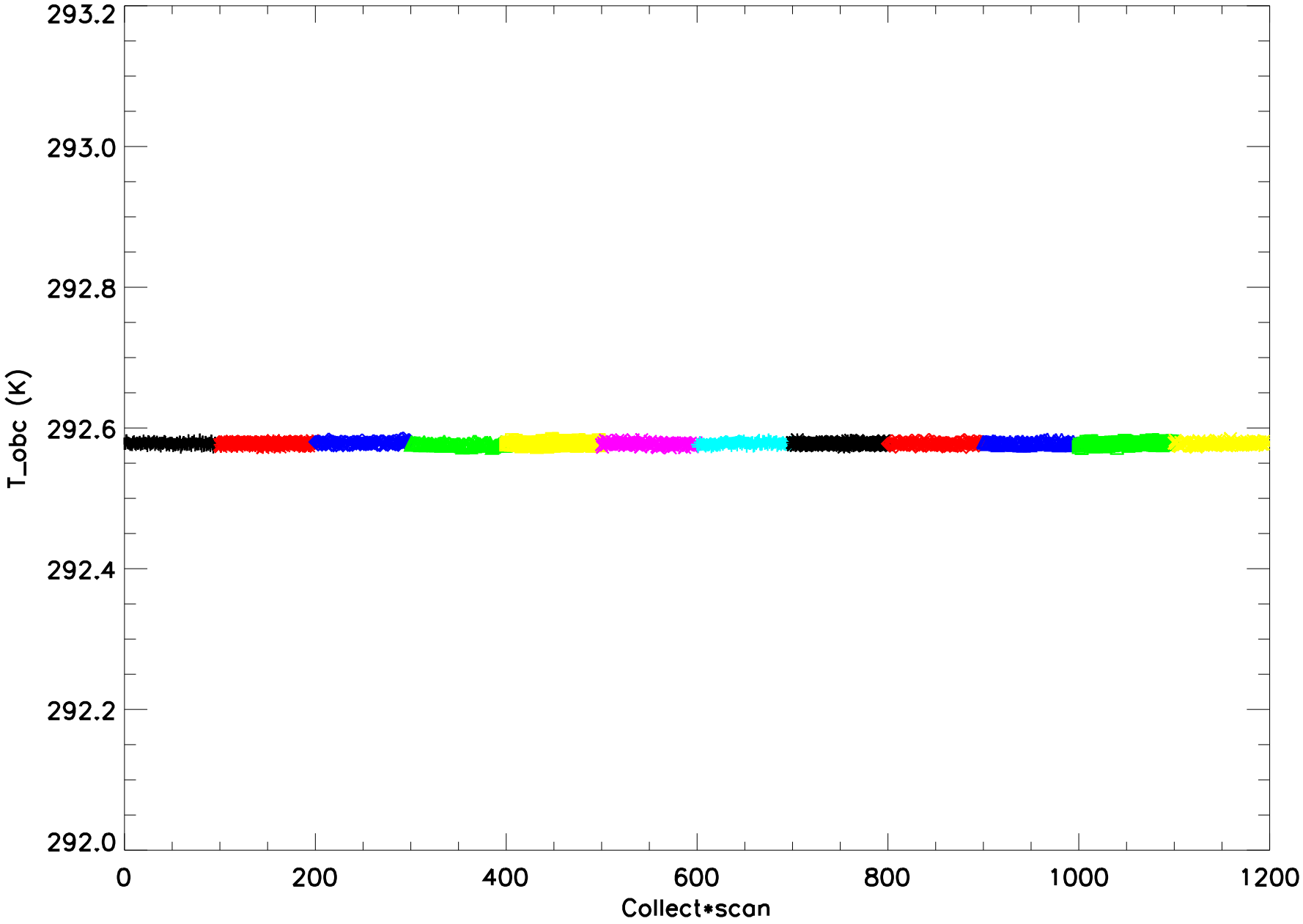

T_tmc vs Time
380
360
340
320
300
280
T_tmc (K)
−200
0
200
400
600
800
1000
Time (min)

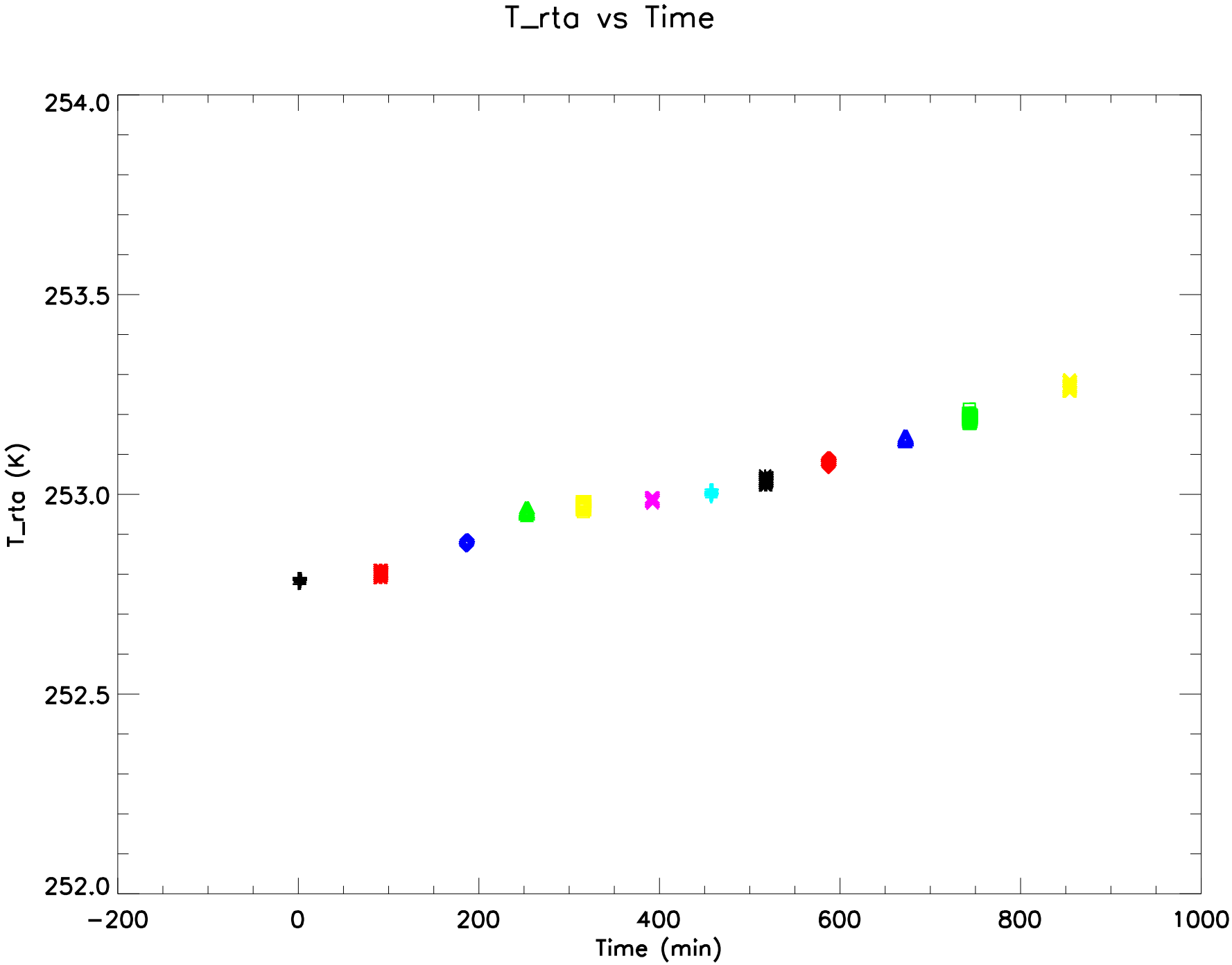

T_rta vs Scan and Collect
254.0
253.5
253.0
252.5
252.0
T_rta (K)
0
200
400
600
800
1000
1200
Collect*scan

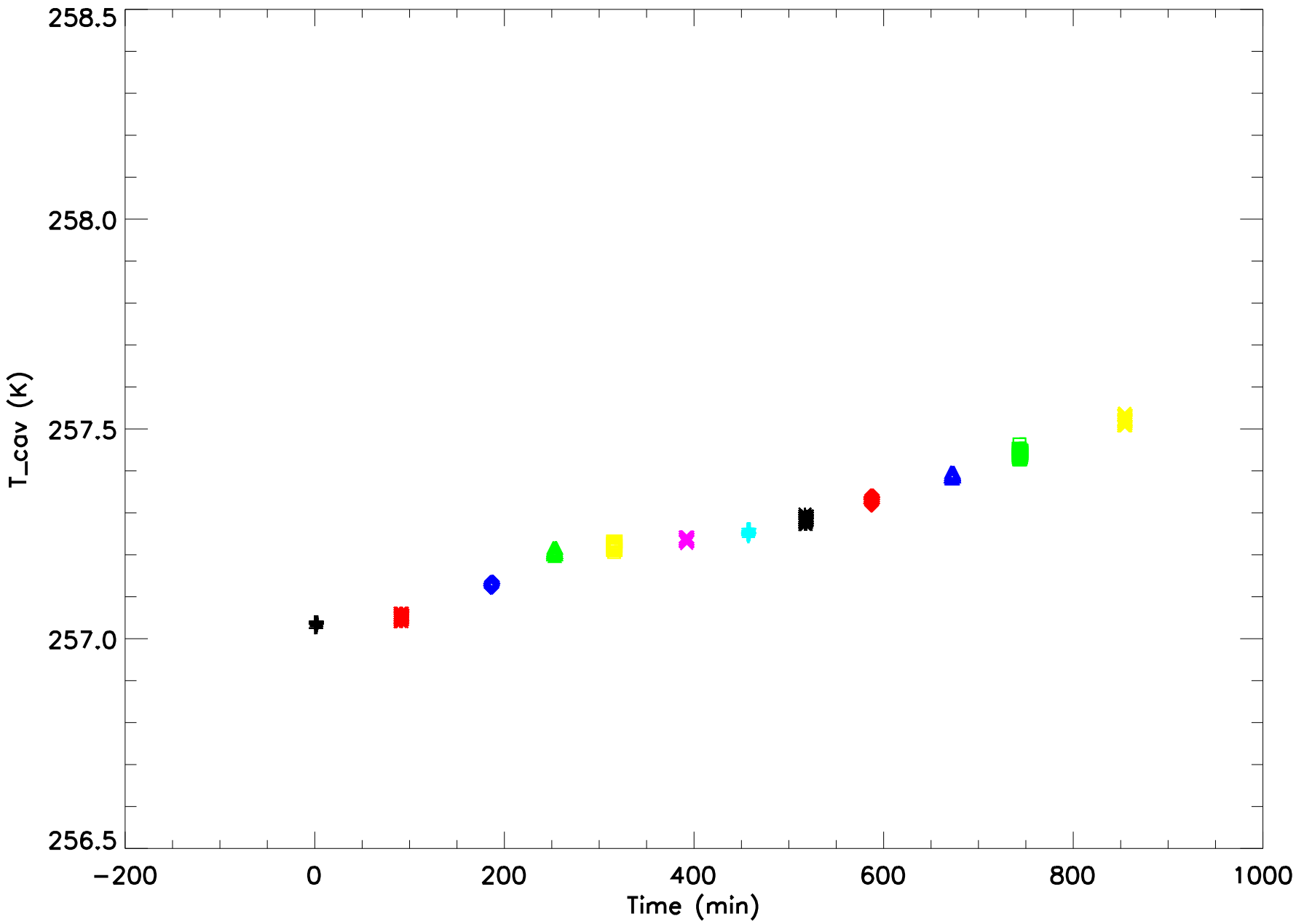

T_cav vs Scan and Collect
258.5
258.0
257.5
257.0
256.5
T_cav (K)
0
200
400
600
800
1000
1200
Collect*scan

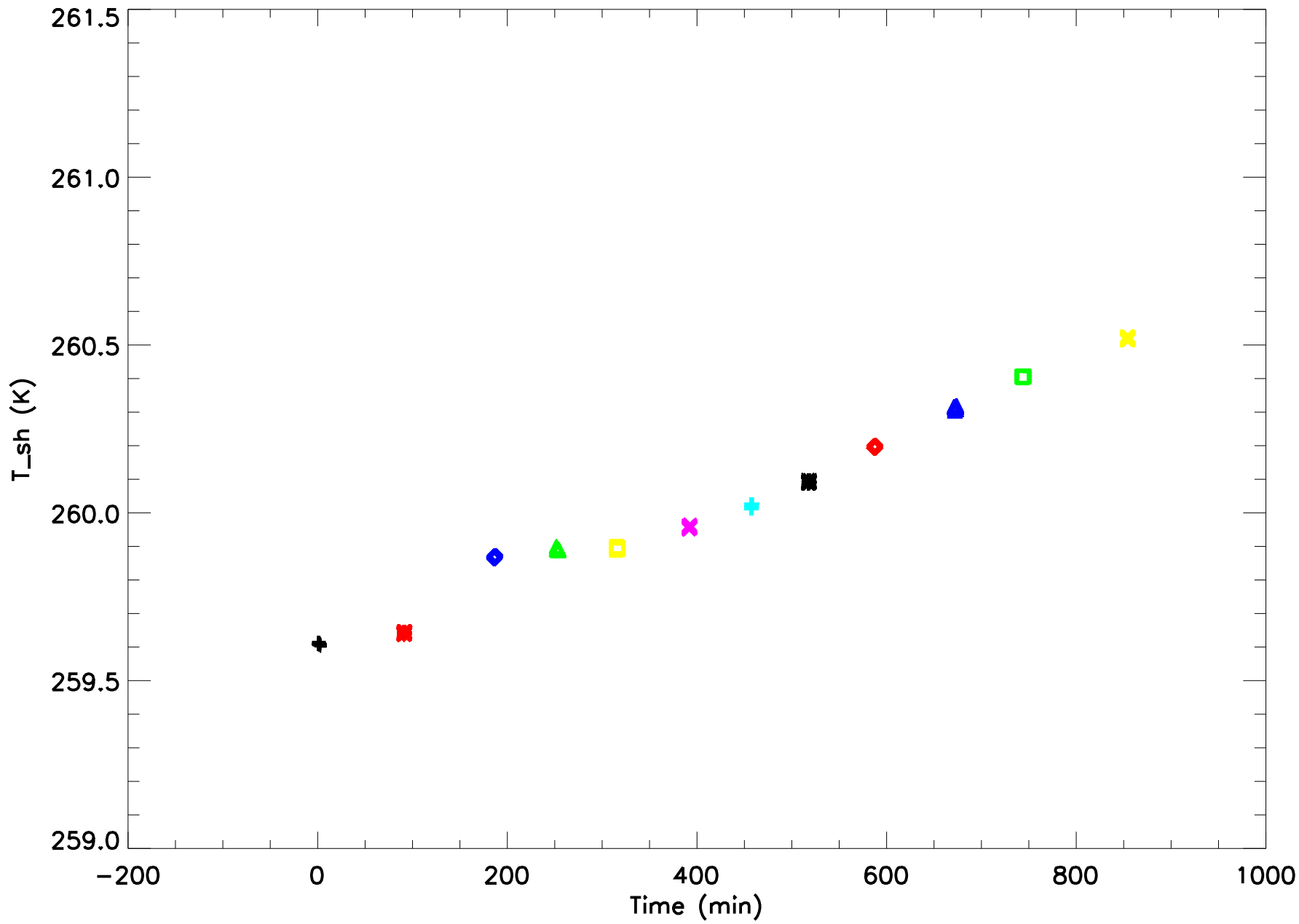

T_sh vs Scan and Collect
261.5
261.0
260.5
260.0
259.5
259.0
T_sh (K)
0
200
400
600
800
1000
1200
Collect*scan

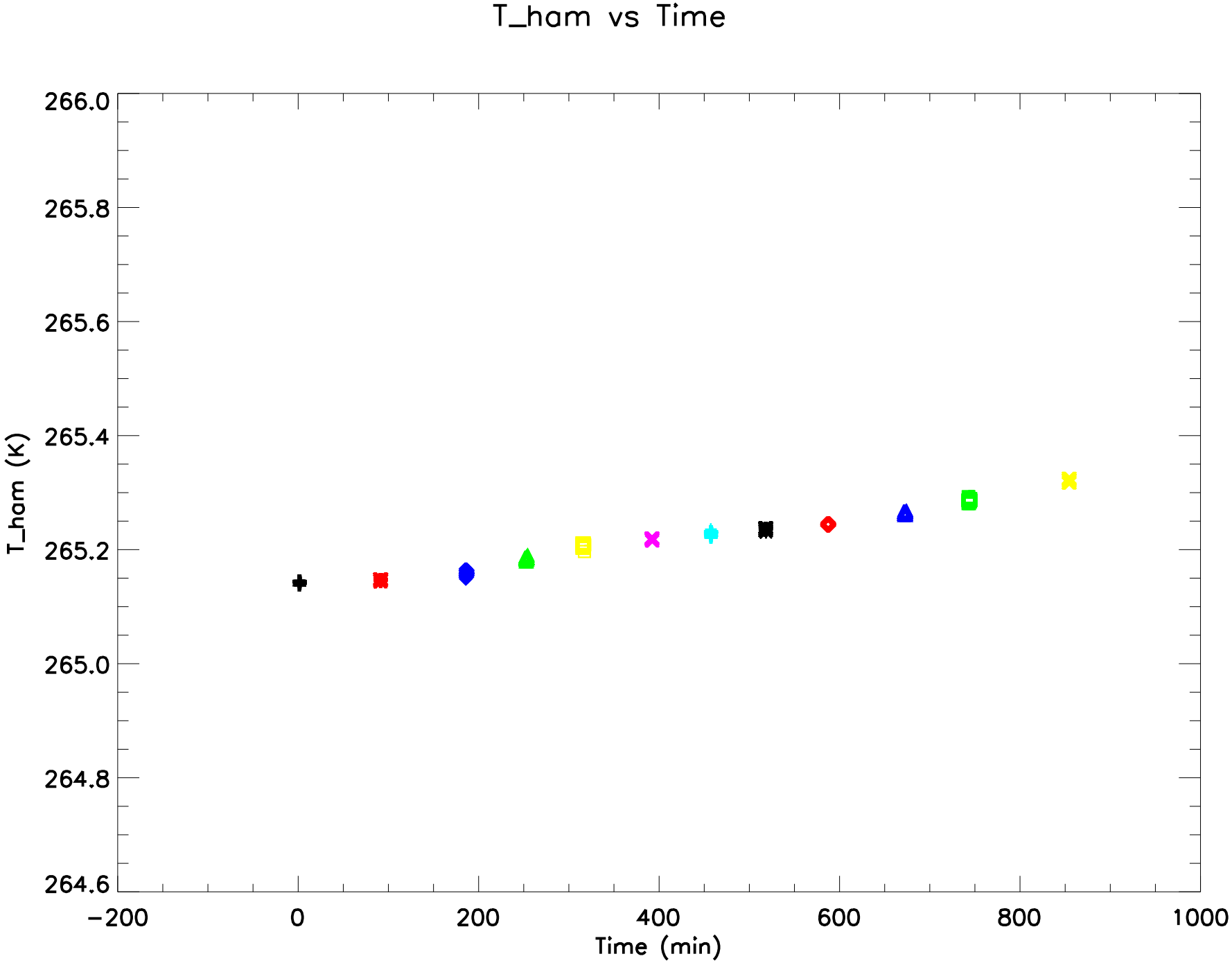

T_ham vs Scan and Collect
266.0
265.8
265.6
265.4
265.2
265.0
264.8
264.6
T_ham (K)
0
200
400
600
800
1000
1200
Collect*scan

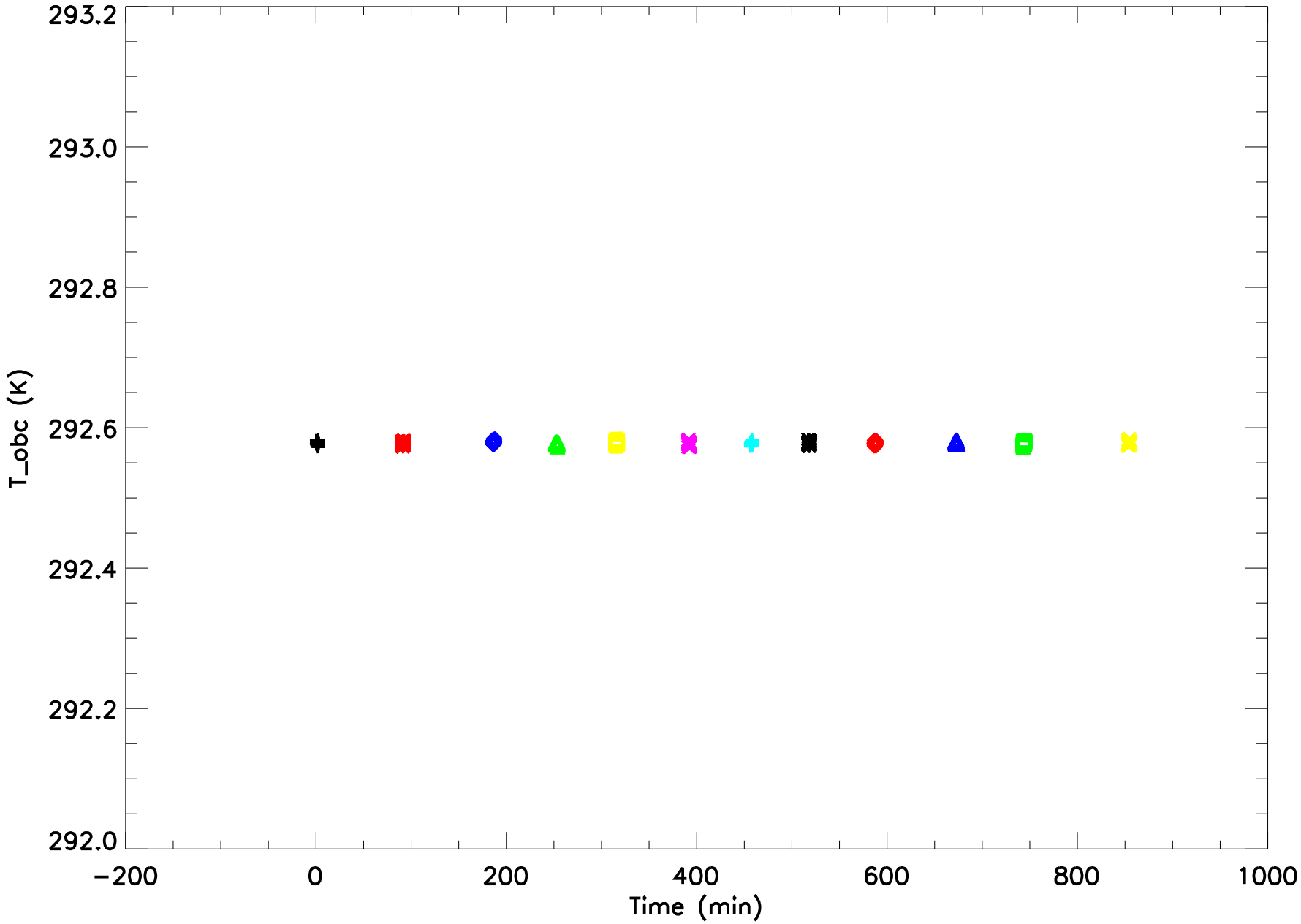

T_obc vs Scan and Collect
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
0
200
400
600
800
1000
1200
Collect*scan

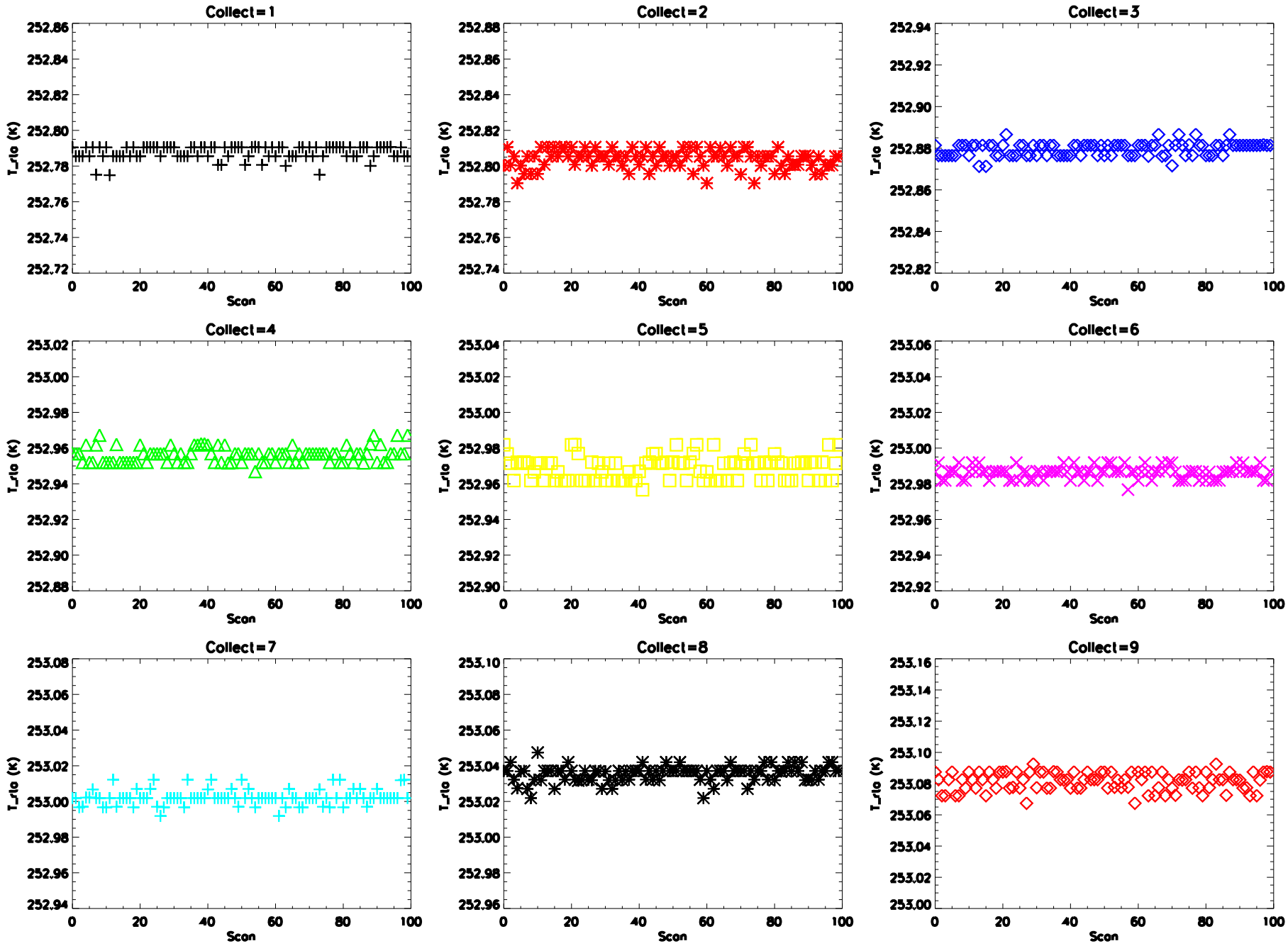

T_rta vs Time
254.0
253.5
253.0
252.5
252.0
T_rta (K)
−200
0
200
400
600
800
1000
Time (min)


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

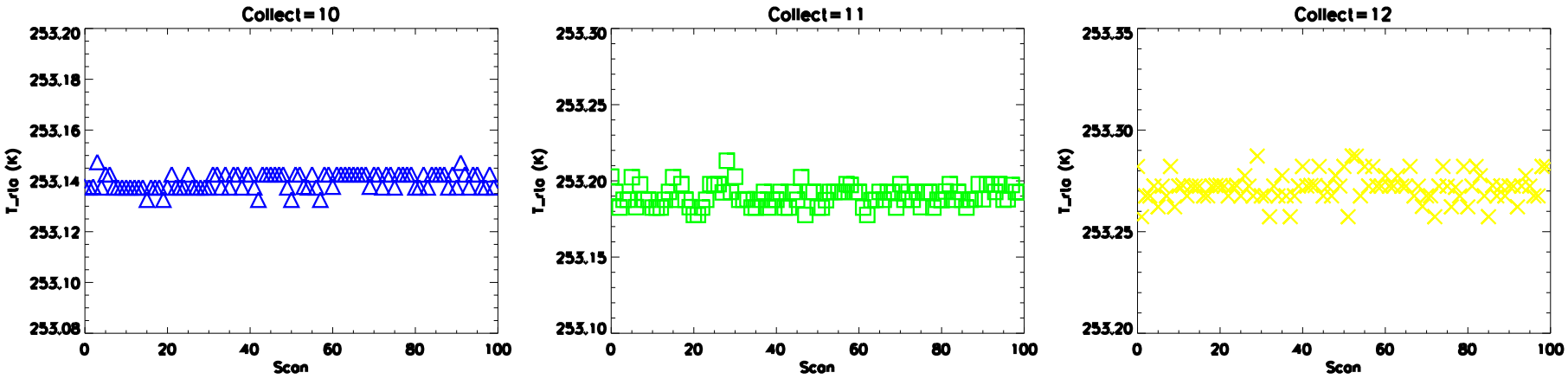

T_sh vs Time
261.5
261.0
260.5
260.0
259.5
259.0
T_sh (K)
−200
0
200
400
600
800
1000
Time (min)


T_ham vs Time
T_ham (K)
266.0
265.8
265.6
265.4
265.2
265.0
264.8
264.6
−200
0
200
400
600
800
1000
Time (min)

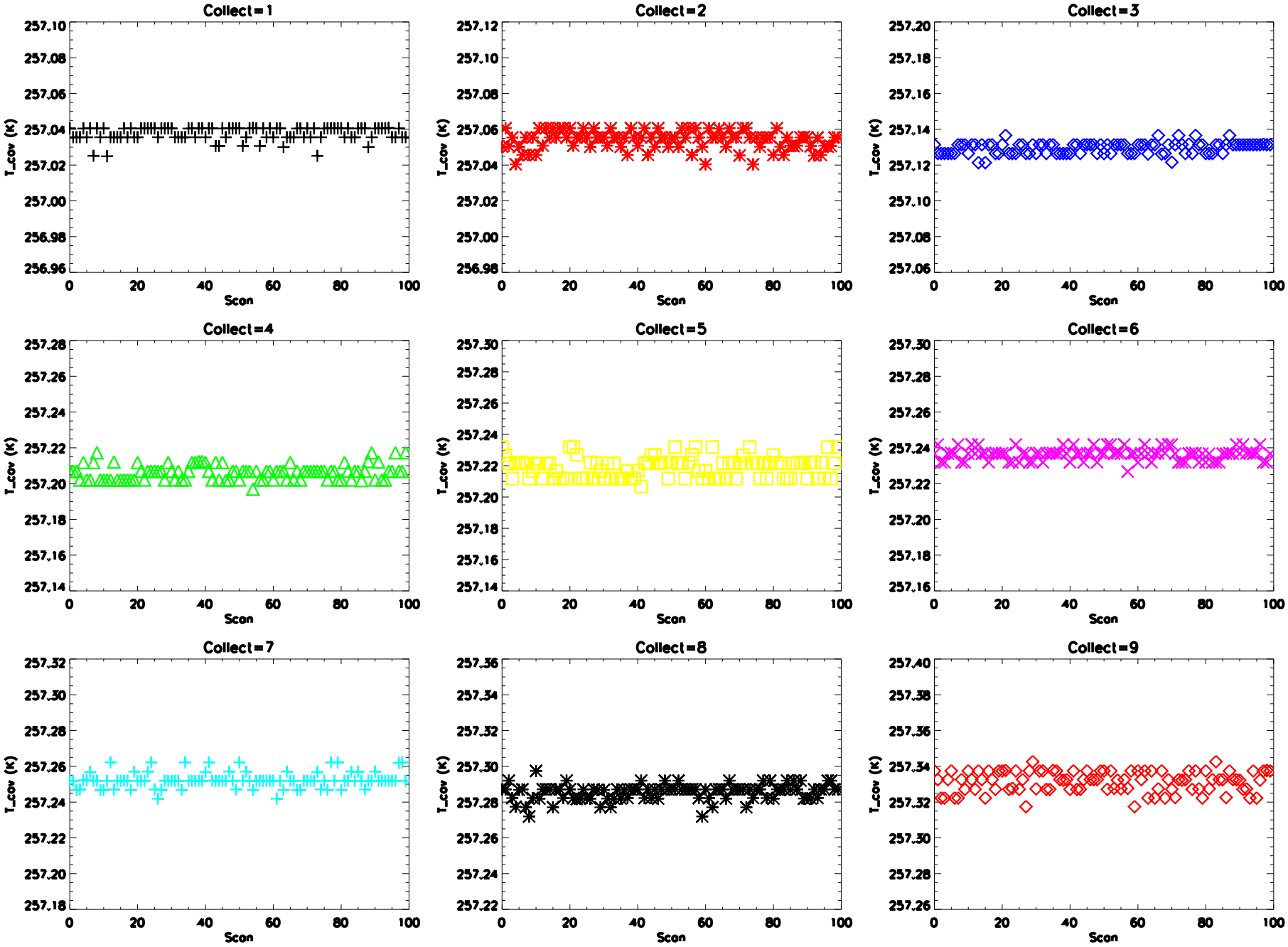

T_obc vs Time
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
−200
0
200
400
600
800
1000
Time (min)


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

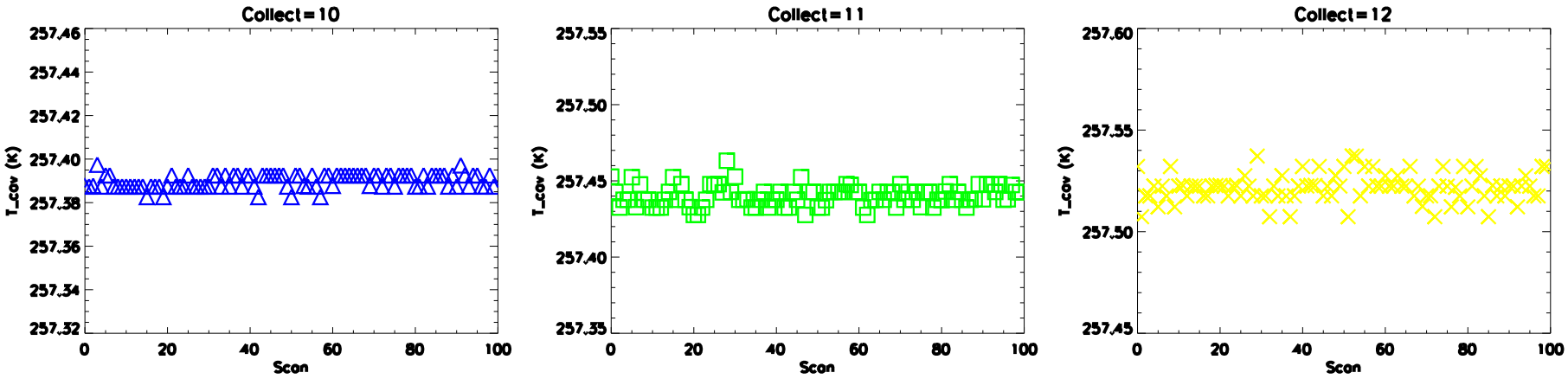
T_rta vs Scan

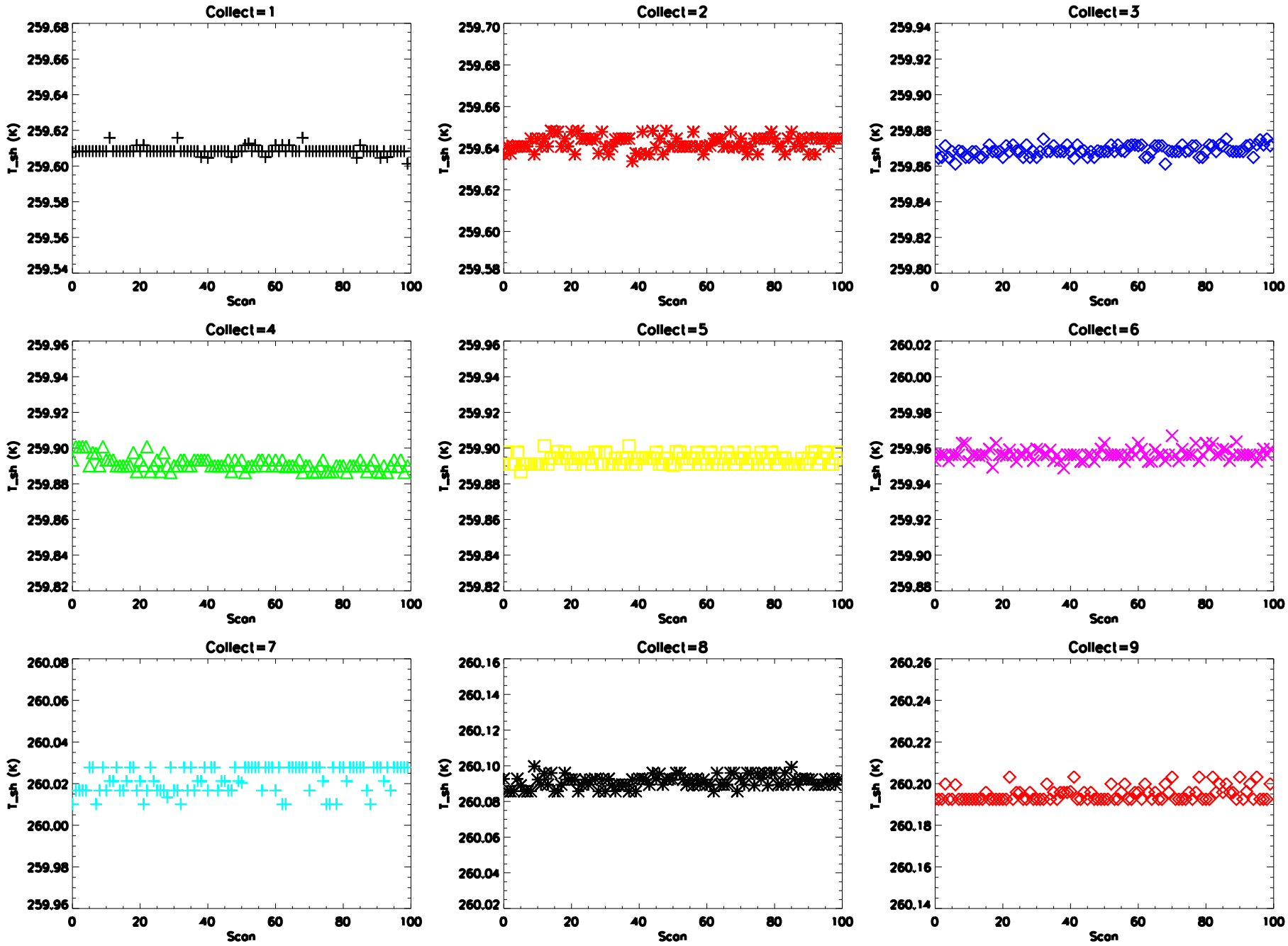

Collect = 10
253.20
253.18
253.16
253.14
253.12
253.10
253.08
T_rta (K)
0
20
40
60
80
100
Scan
Collect = 11
253.30
253.25
253.20
253.15
253.10
T_rta (K)
0
20
40
60
80
100
Scan
Collect = 12
253.35
253.30
253.25
253.20
T_rta (K)
0
20
40
60
80
100
Scan

T_cav vs Scan

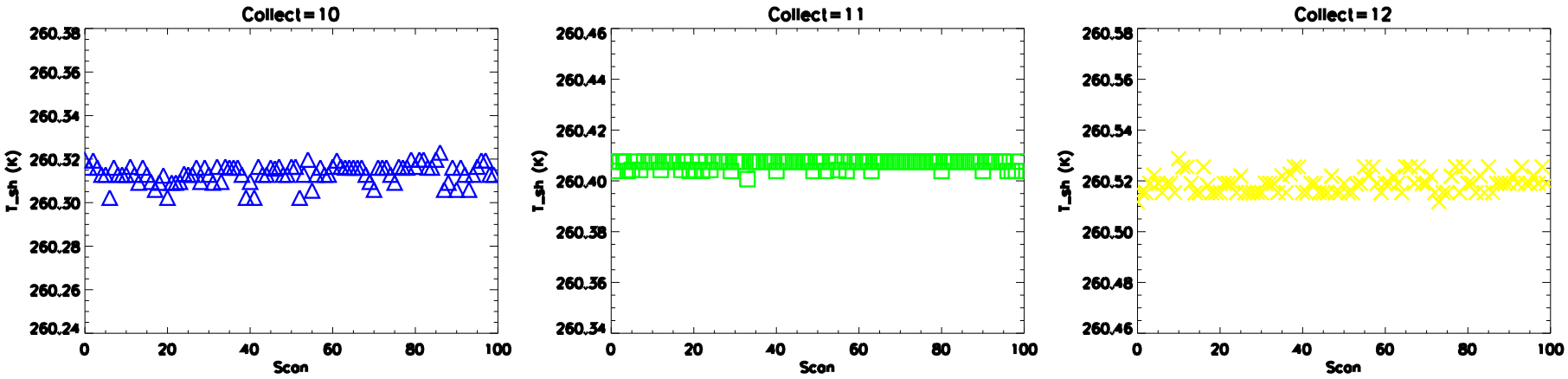

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_cav (K)
Scan

T_cav vs Scan

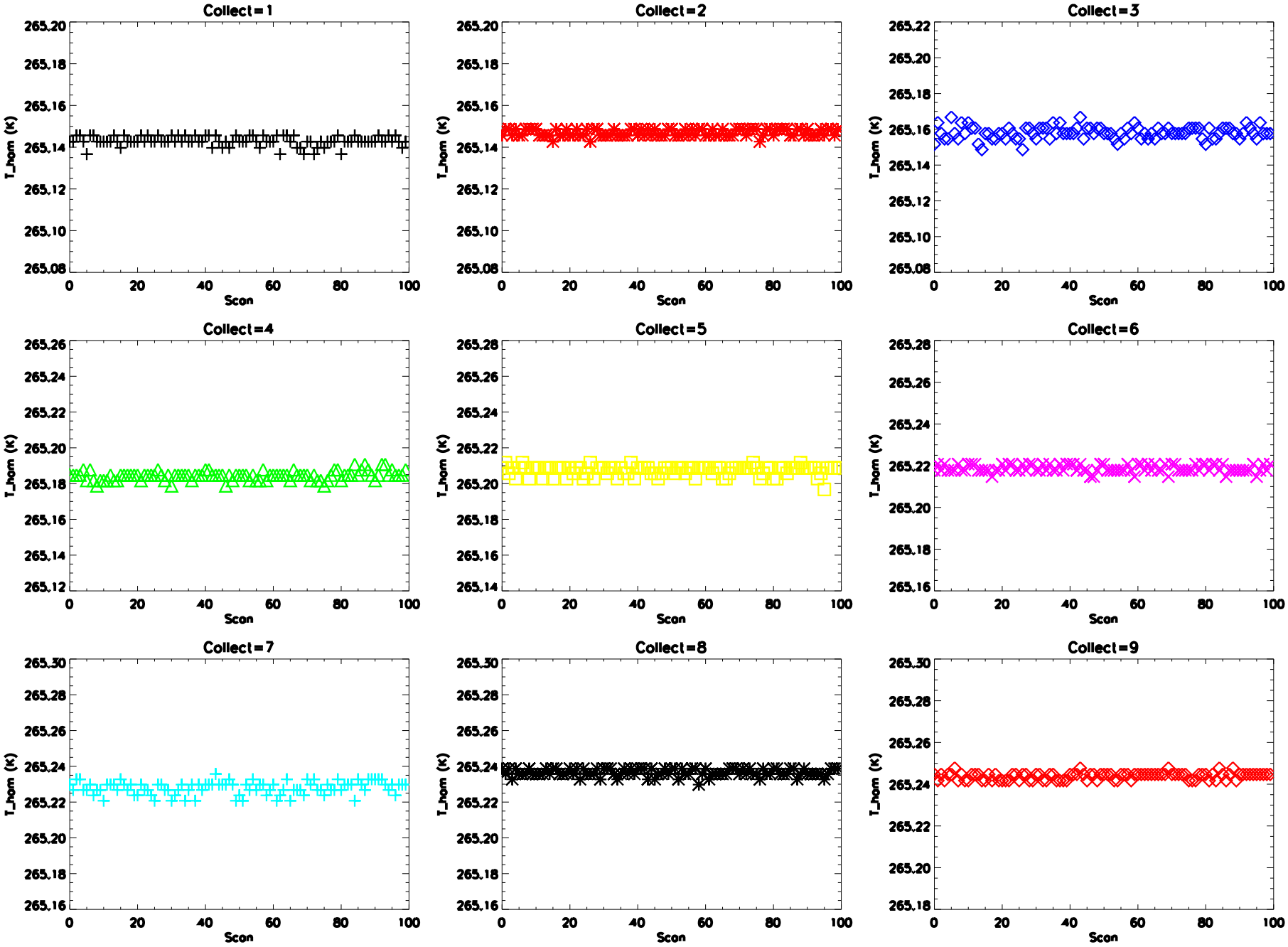

Collect = 10
Collect = 11
Collect = 12
T_cav (K)
Scan
257.46
257.44
257.42
257.40
257.38
257.36
257.34
257.32
257.55
257.50
257.45
257.40
257.35
257.60
257.55
257.50
257.45
0
20
40
60
80
100


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

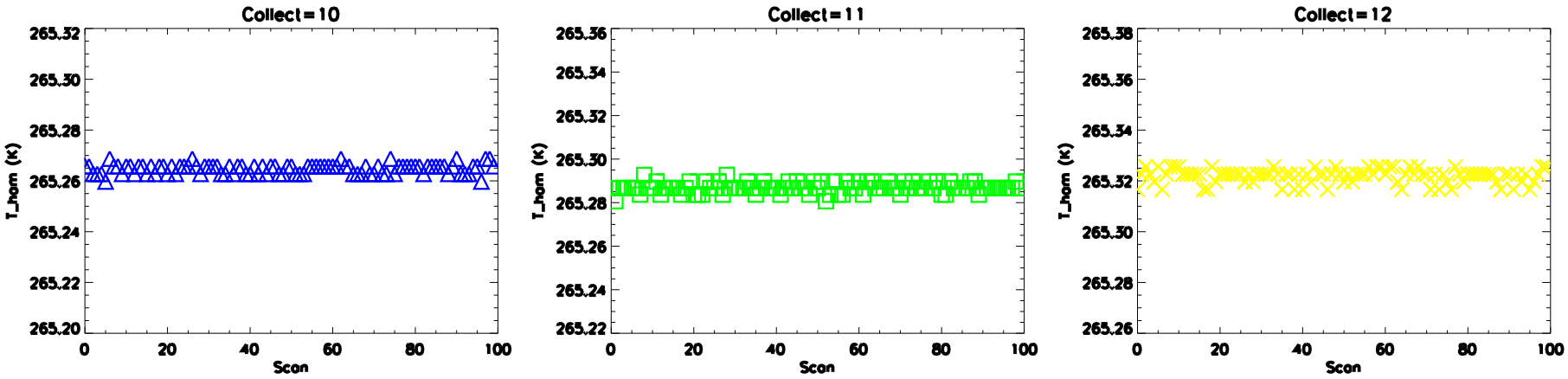
T_sh vs Scan

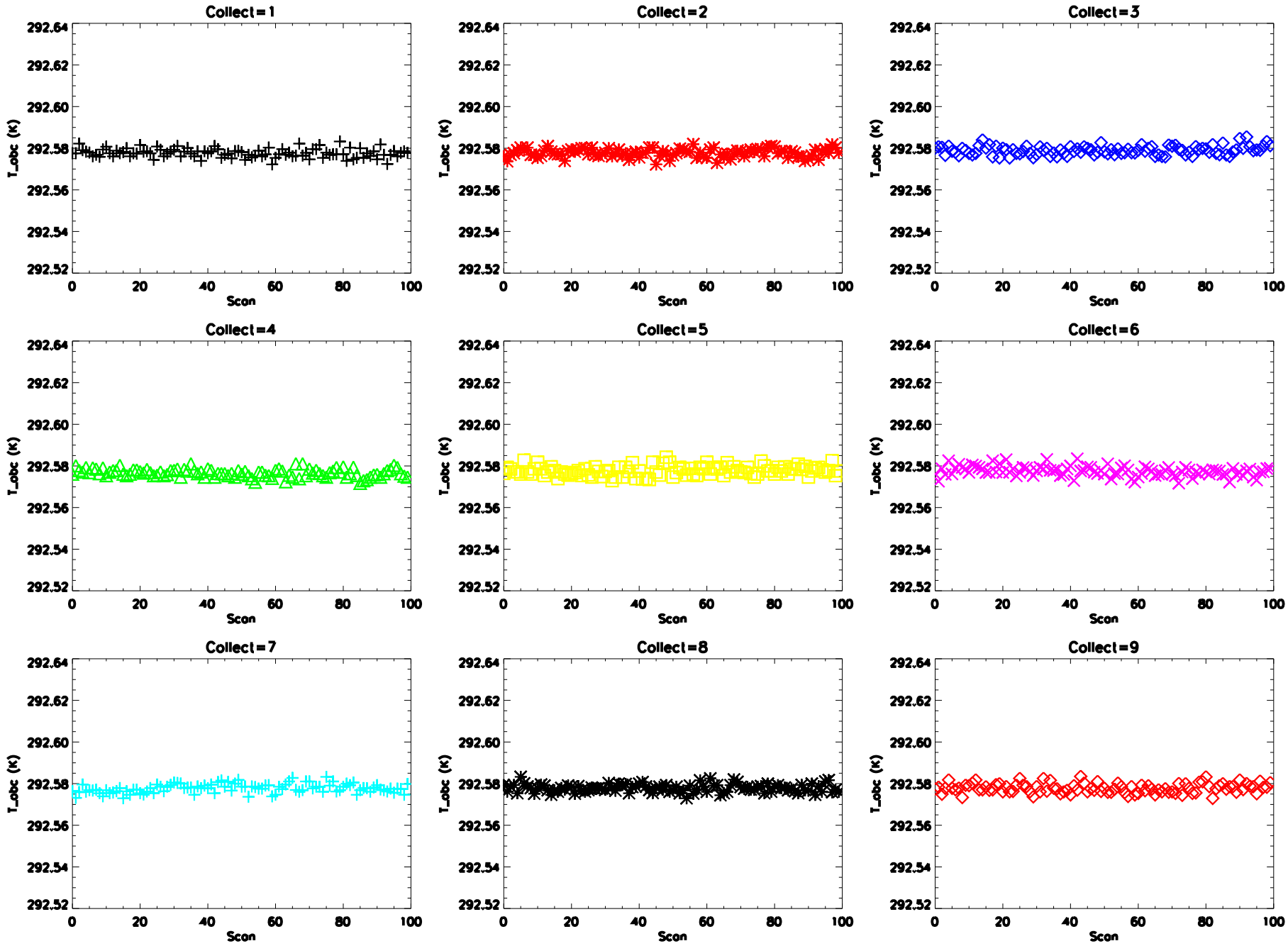

Collect = 10
T_sh (K)
260.38
260.36
260.34
260.32
260.30
260.28
260.26
260.24
0
20
40
60
80
100
Scan
Collect = 11
T_sh (K)
260.46
260.44
260.42
260.40
260.38
260.36
260.34
0
20
40
60
80
100
Scan
Collect = 12
T_sh (K)
260.58
260.56
260.54
260.52
260.50
260.48
260.46
0
20
40
60
80
100
Scan

T_ham vs Scan

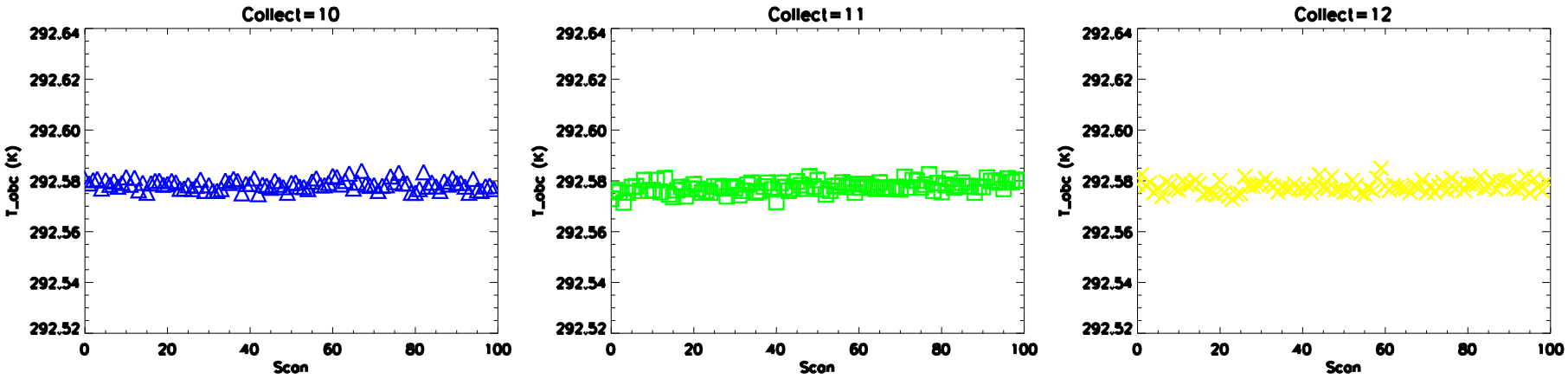

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_ham (K)
Scan

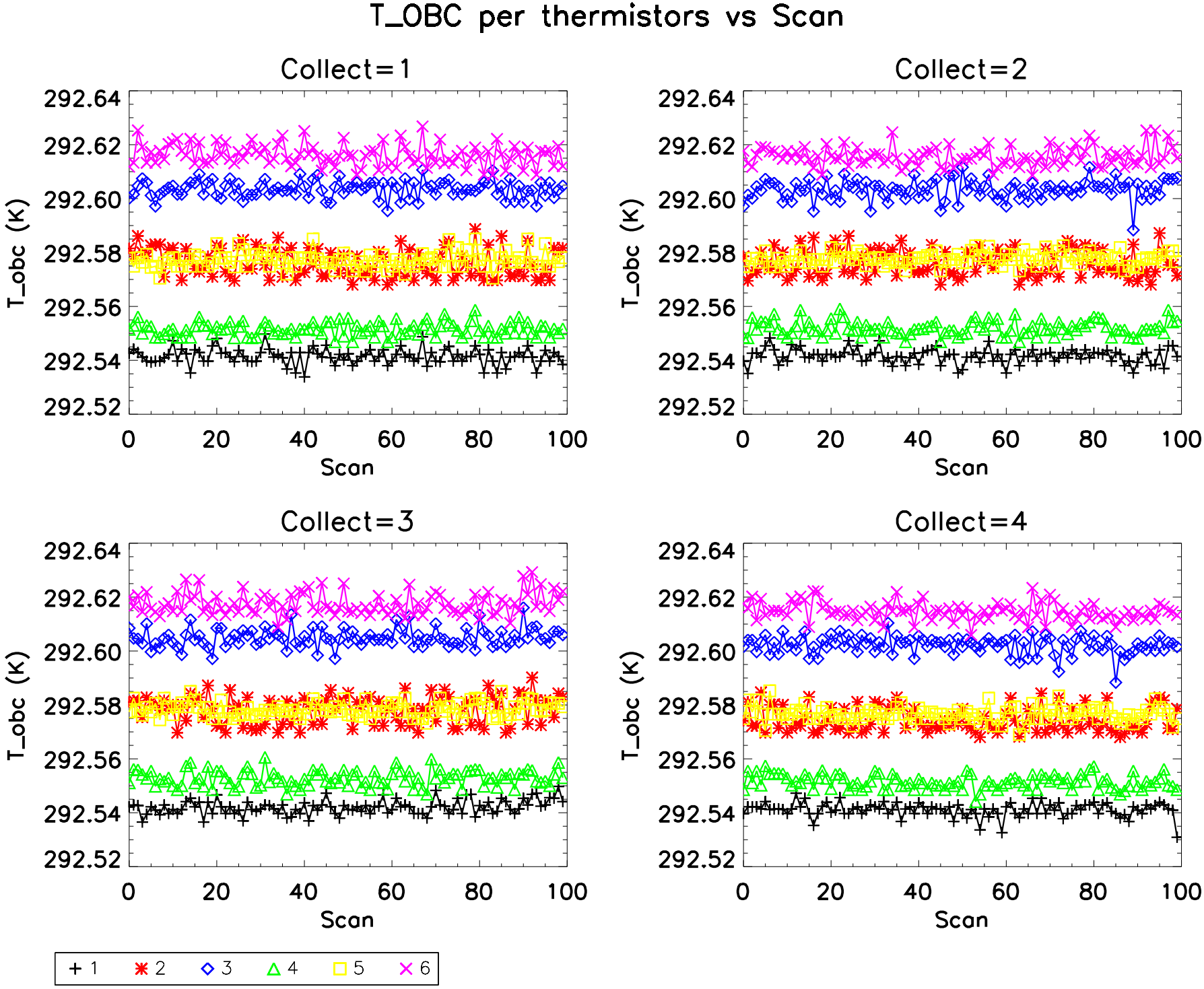
T_ham vs Scan

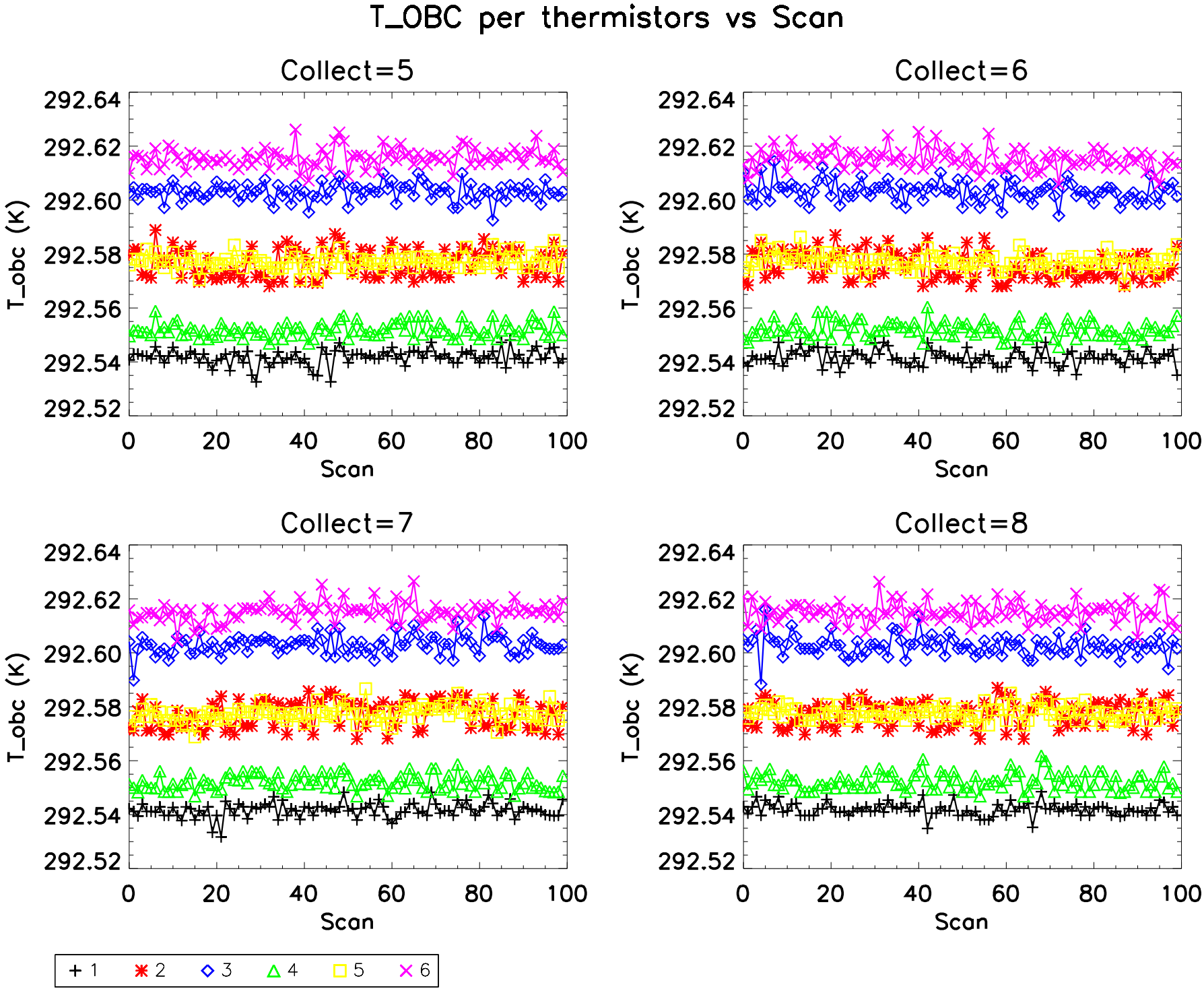

Collect = 10
T_ham (K)
265.32
265.30
265.28
265.26
265.24
265.22
265.20
0
20
40
60
80
100
Scan
Collect = 11
T_ham (K)
265.36
265.34
265.32
265.30
265.28
265.26
265.24
265.22
0
20
40
60
80
100
Scan
Collect = 12
T_ham (K)
265.38
265.36
265.34
265.32
265.30
265.28
265.26
0
20
40
60
80
100
Scan

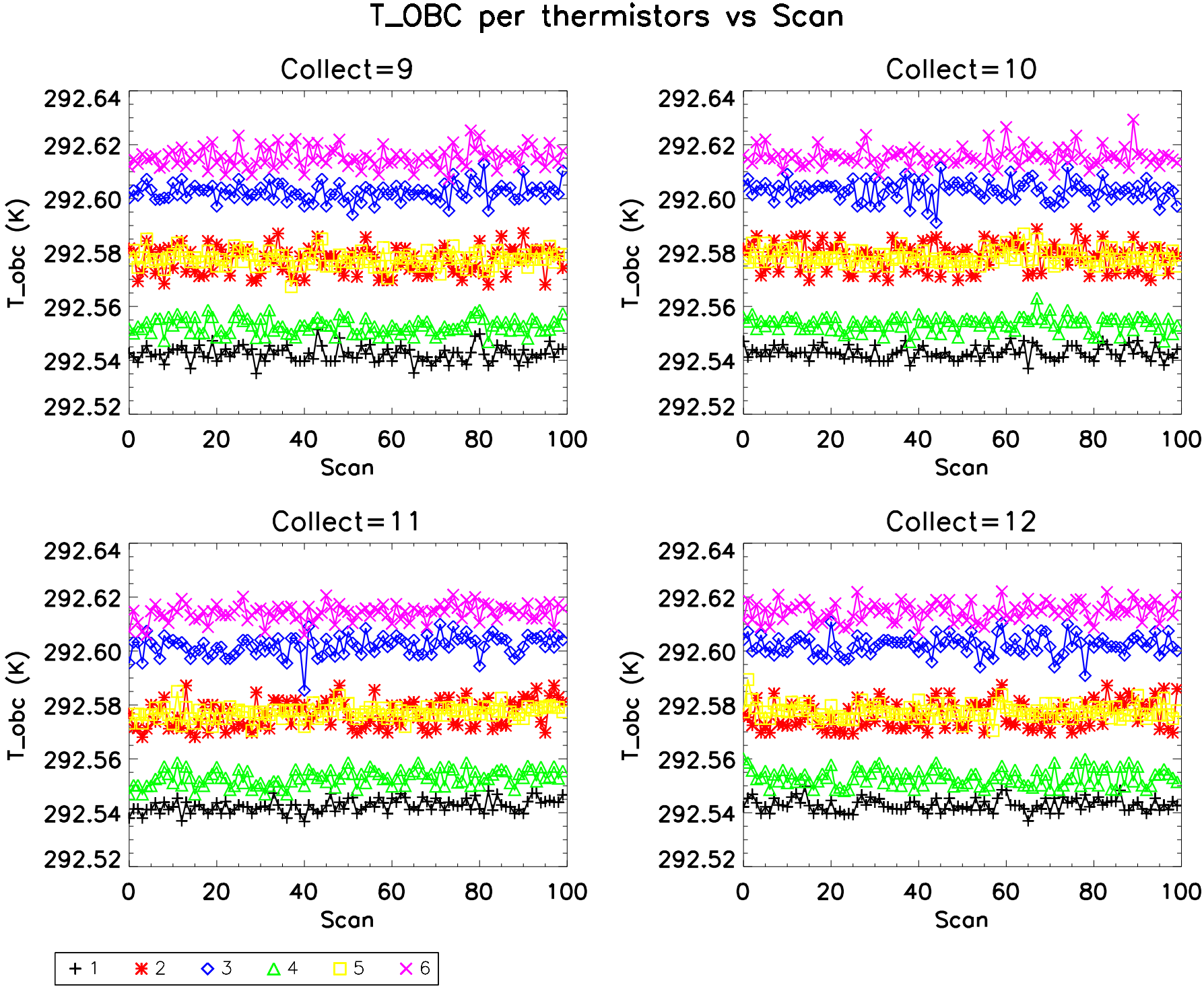

T_obc vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100

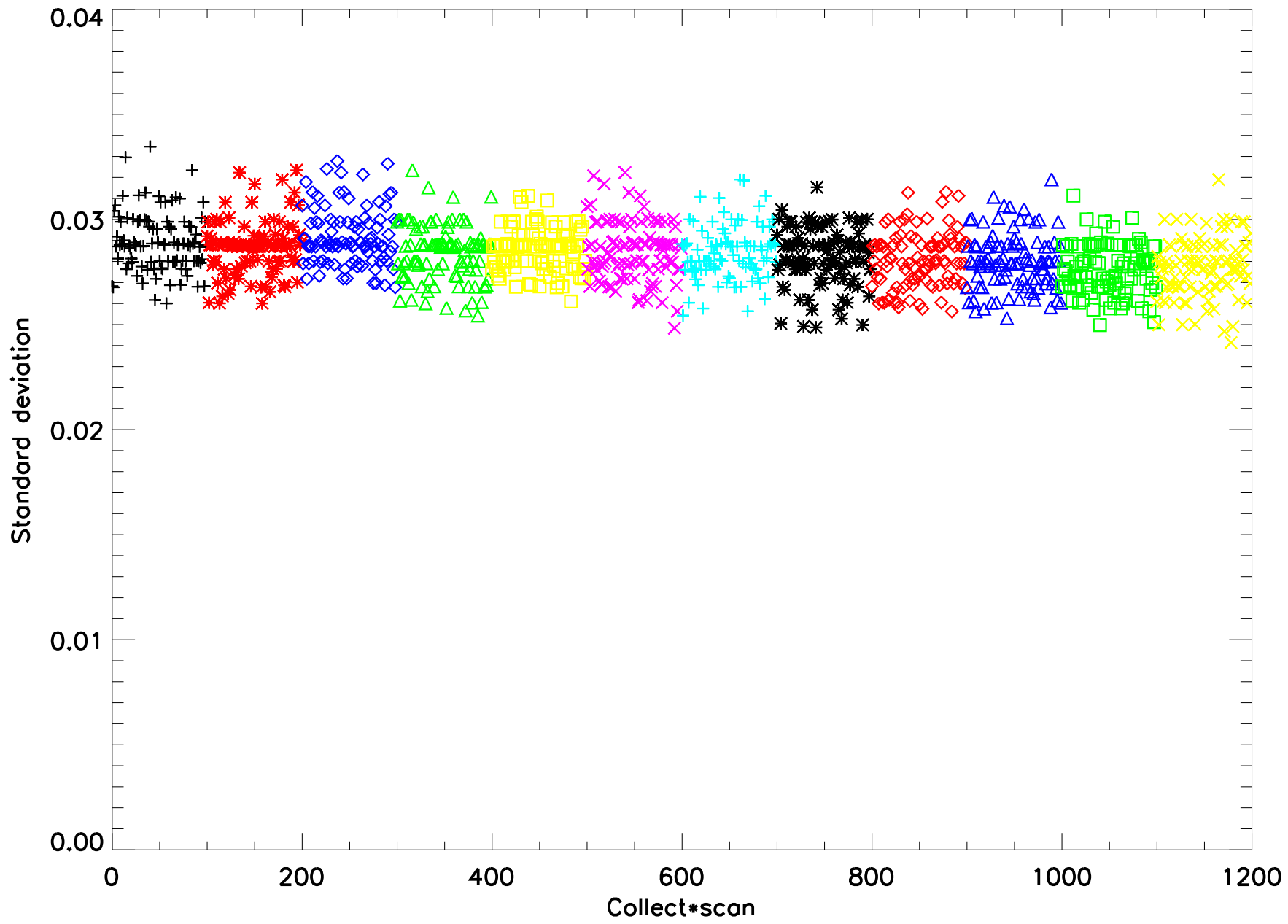
T_obc vs Scan

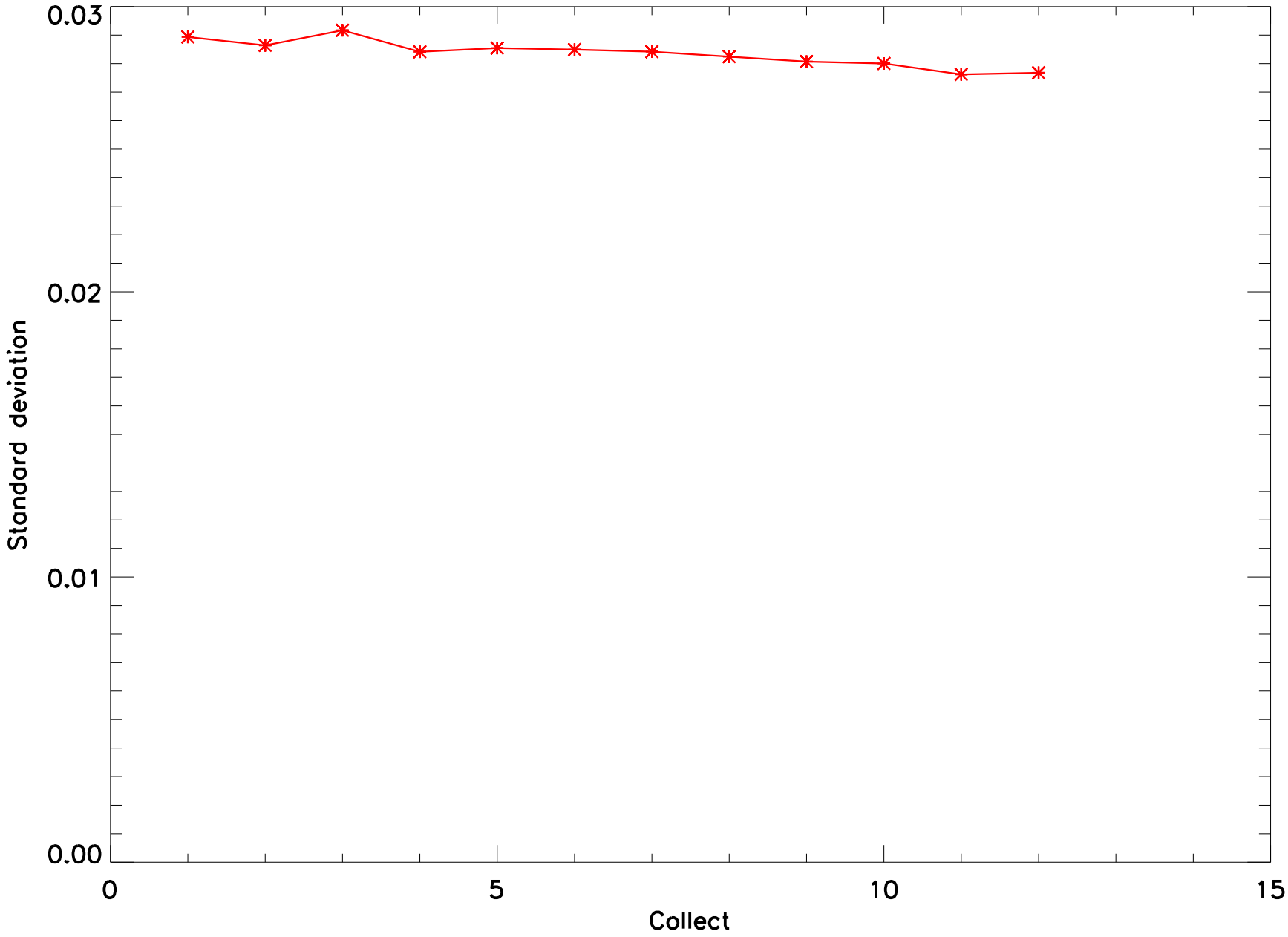

Collect = 10
Collect = 11
Collect = 12
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100

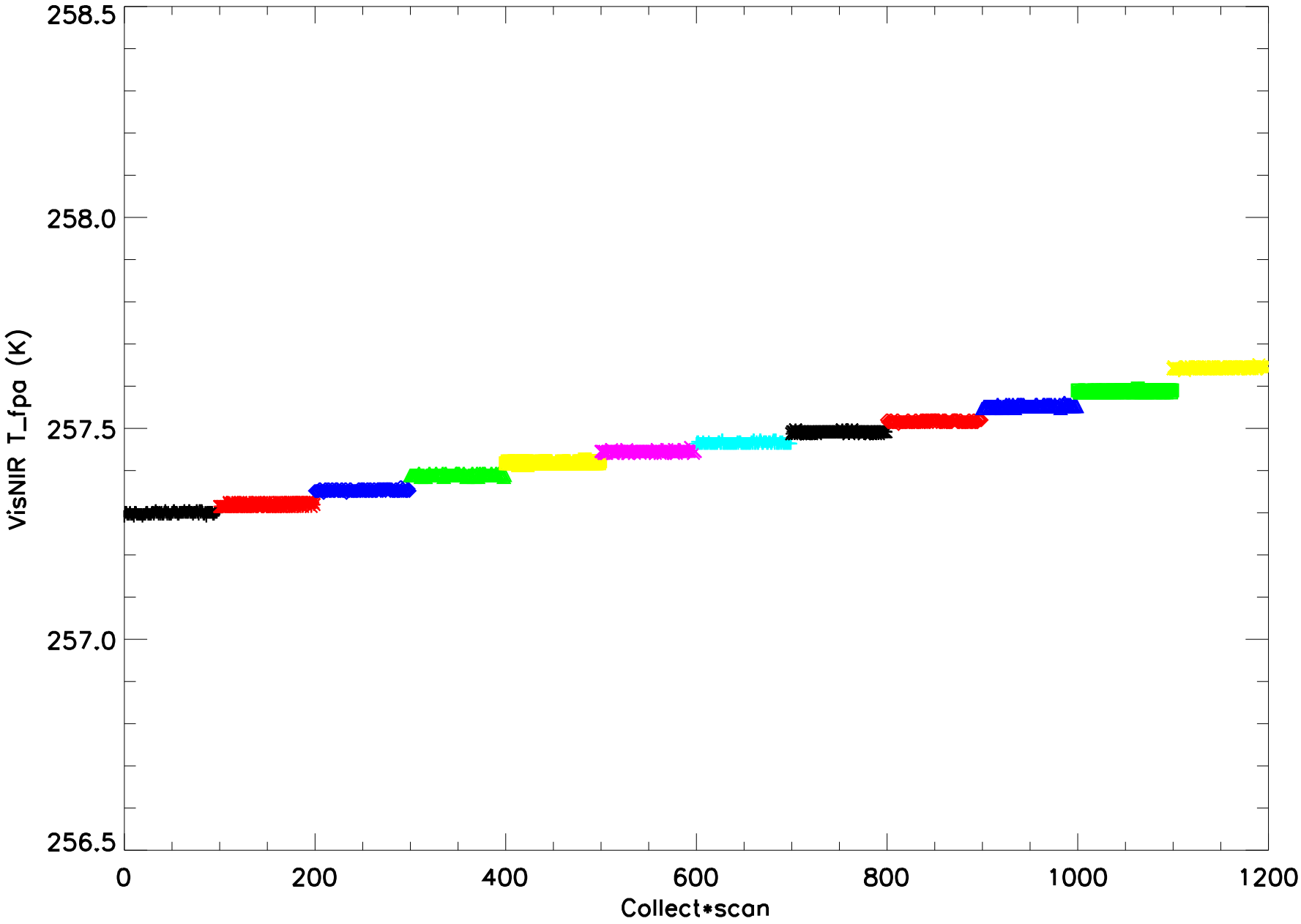

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100
Scan
1
2
3
4
5
6

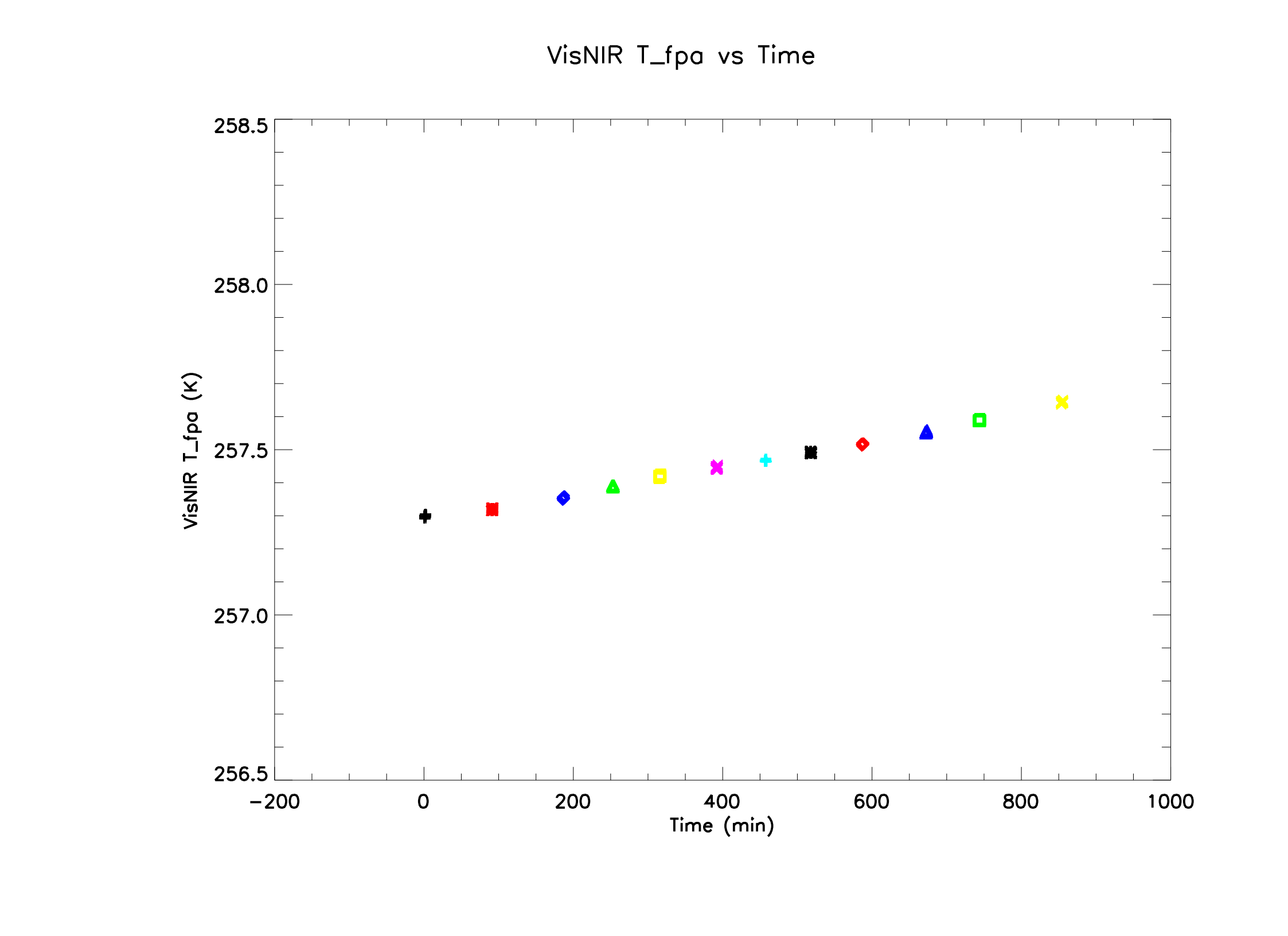

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100
1
2
3
4
5
6

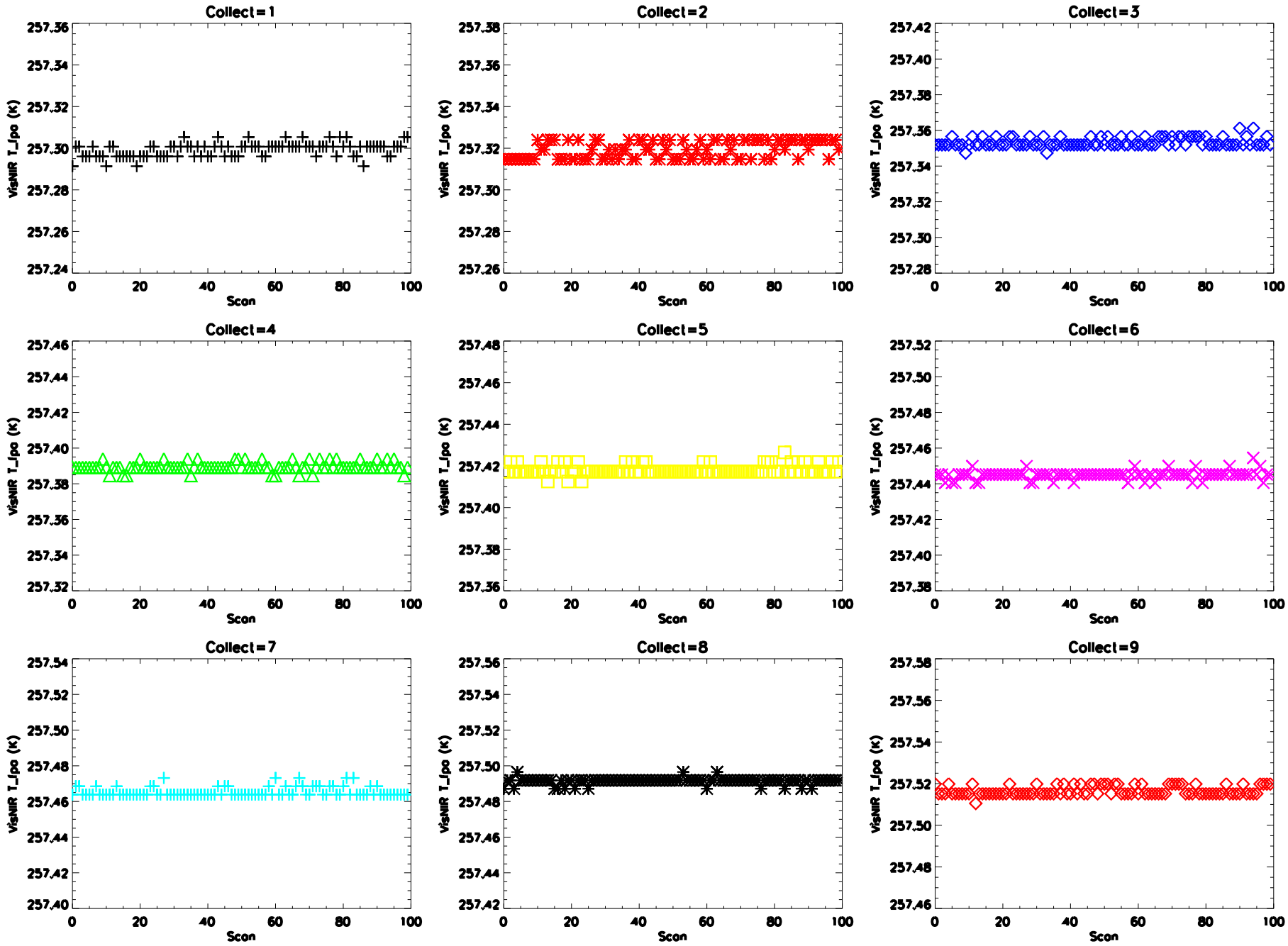

T_OBC per thermistors vs Scan
Collect=9
Collect=10
Collect=11
Collect=12
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100
1
2
3
4
5
6


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

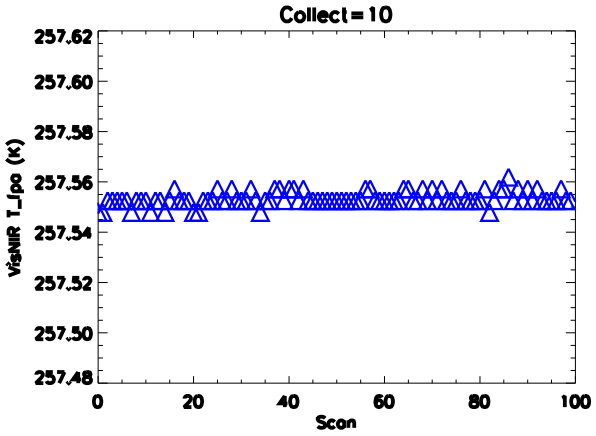

OBC thermistor standard deviation vs Collect
0.03
0.02
0.01
0.00
Standard deviation
0
5
10
15
Collect

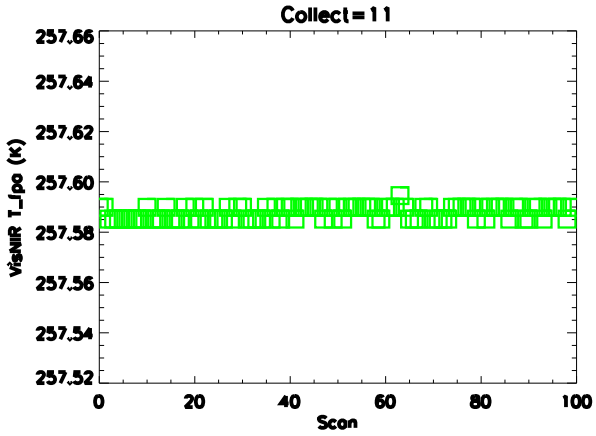

VisNIR T_fpa vs Scan and Collect
VisNIR T_fpa (K)
258.5
258.0
257.5
257.0
256.5
0
200
400
600
800
1000
1200
Collect*scan

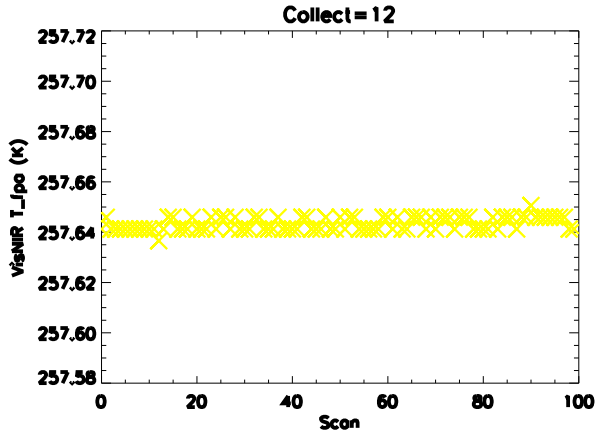

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
258.5
258.0
257.5
257.0
256.5
−200
0
200
400
600
800
1000
Time (min)

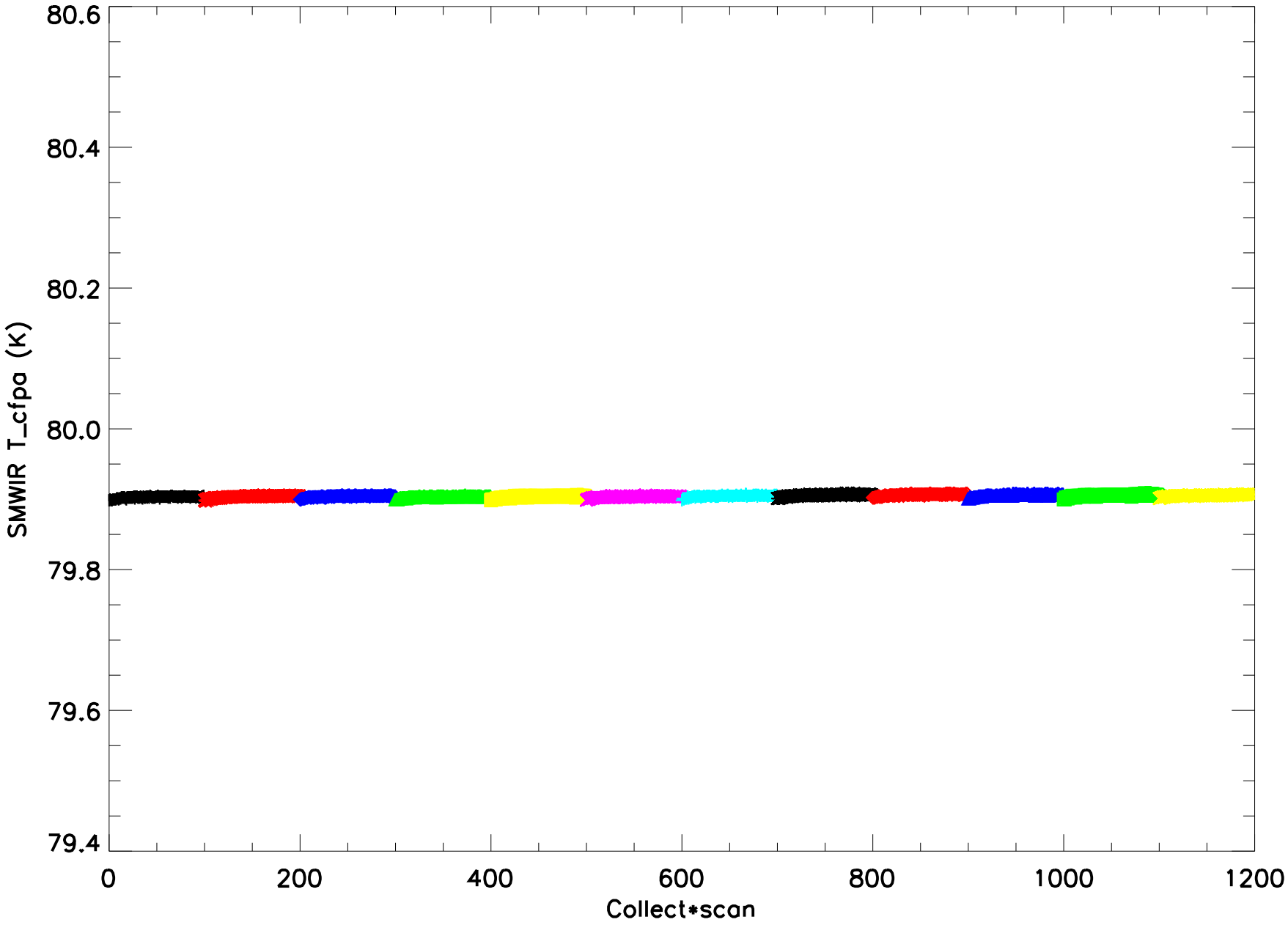

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_lpo (K)
Scan

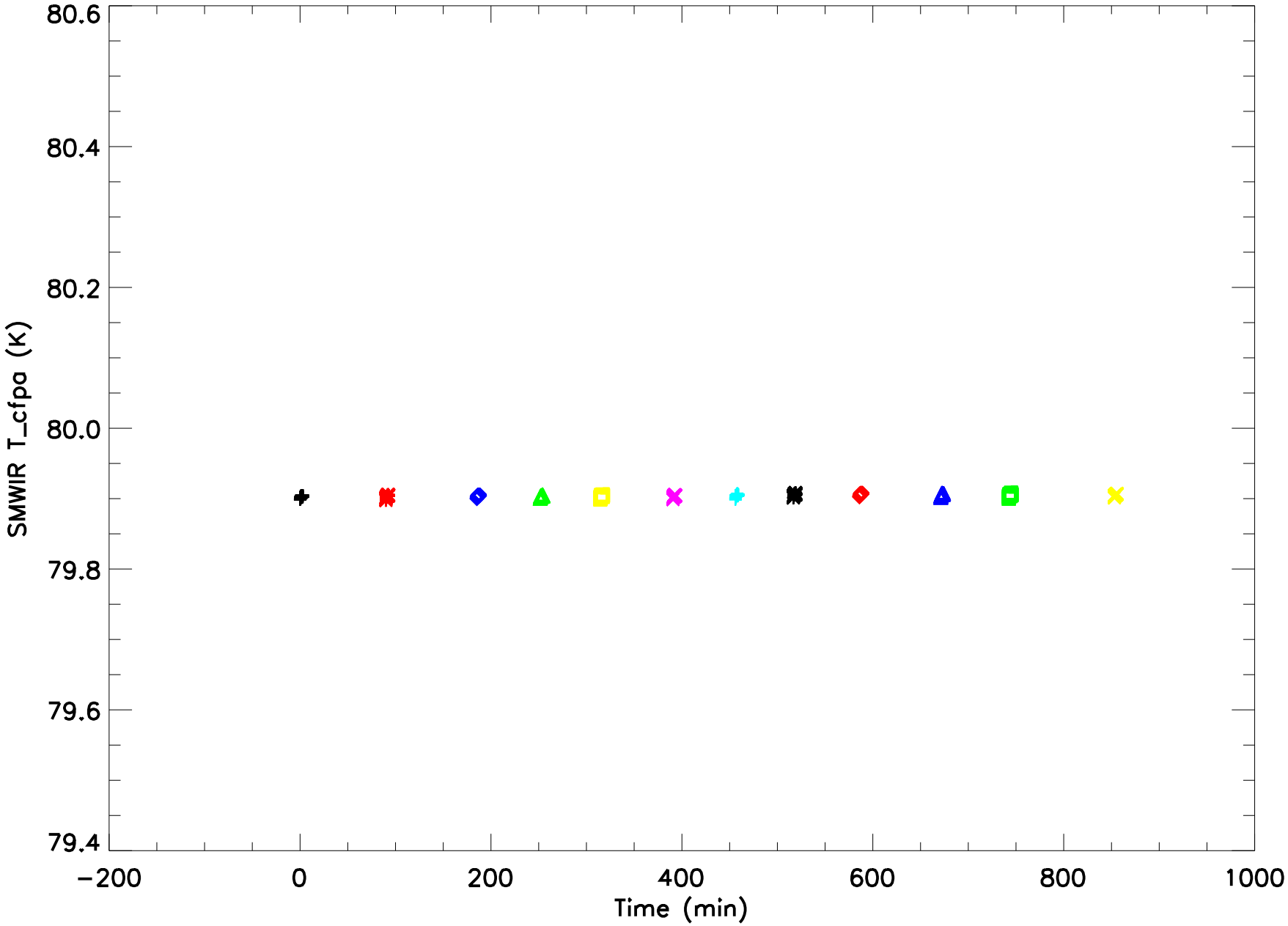
VisNIR T_fpa vs Scan

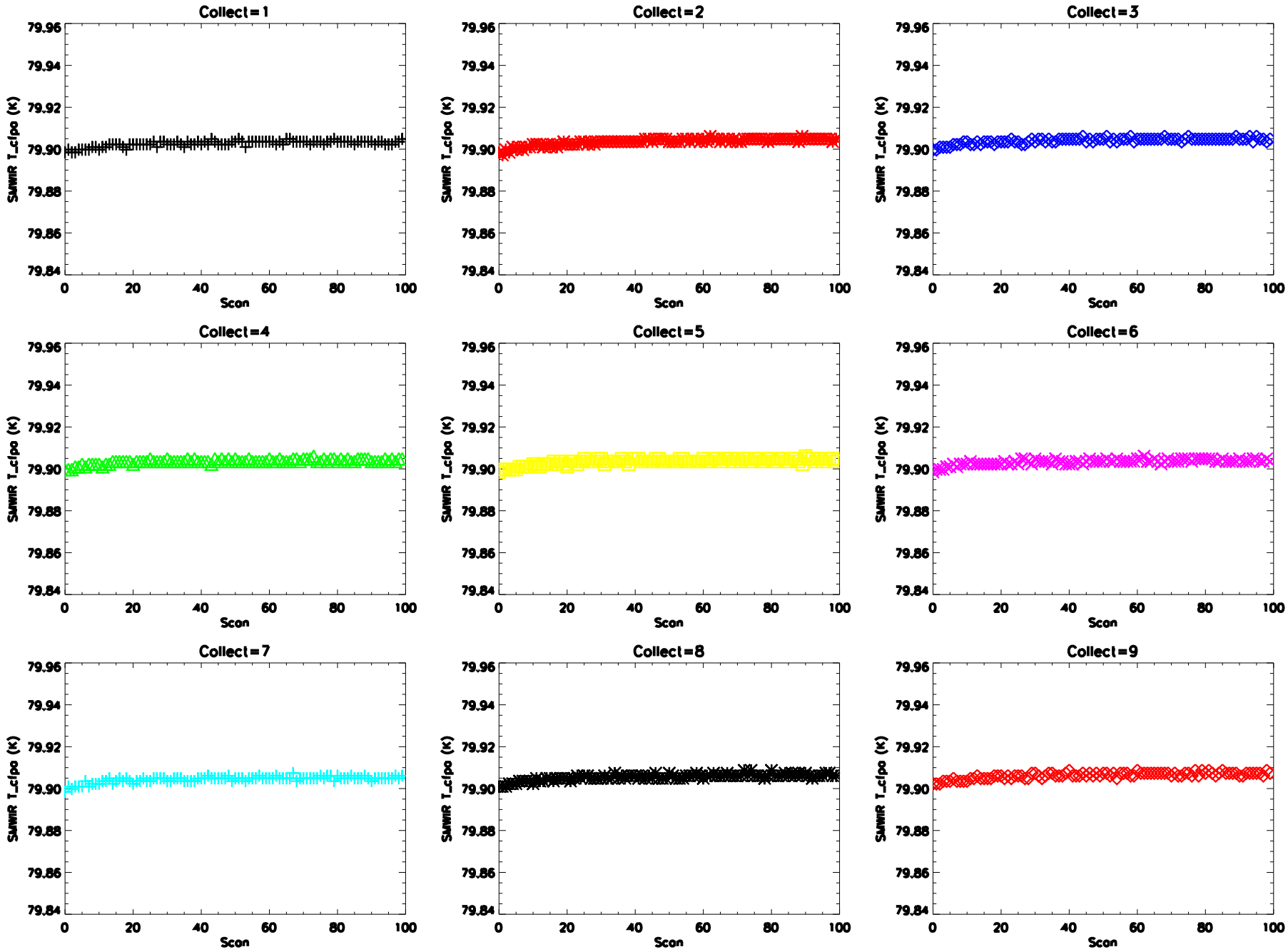




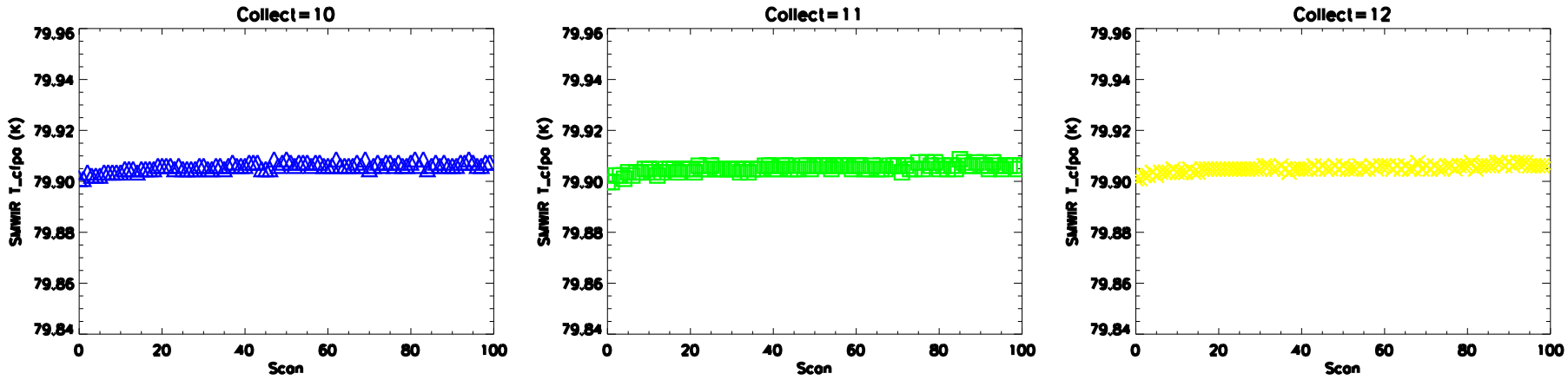


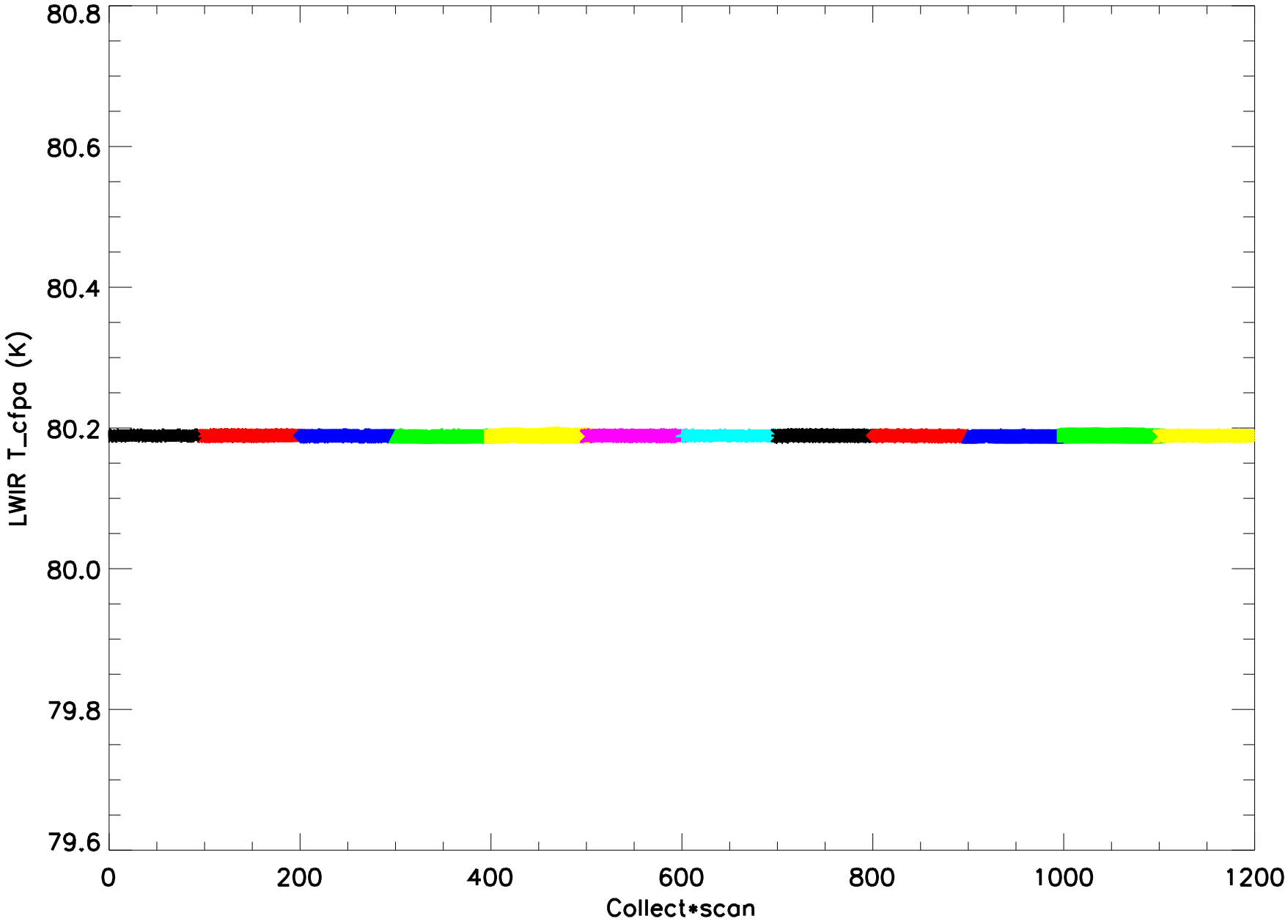

SMWIR T_cfpa vs Scan and Collect
80.6
80.4
80.2
80.0
79.8
79.6
79.4
SMWIR T_cfpa (K)
0
200
400
600
800
1000
1200
Collect*scan

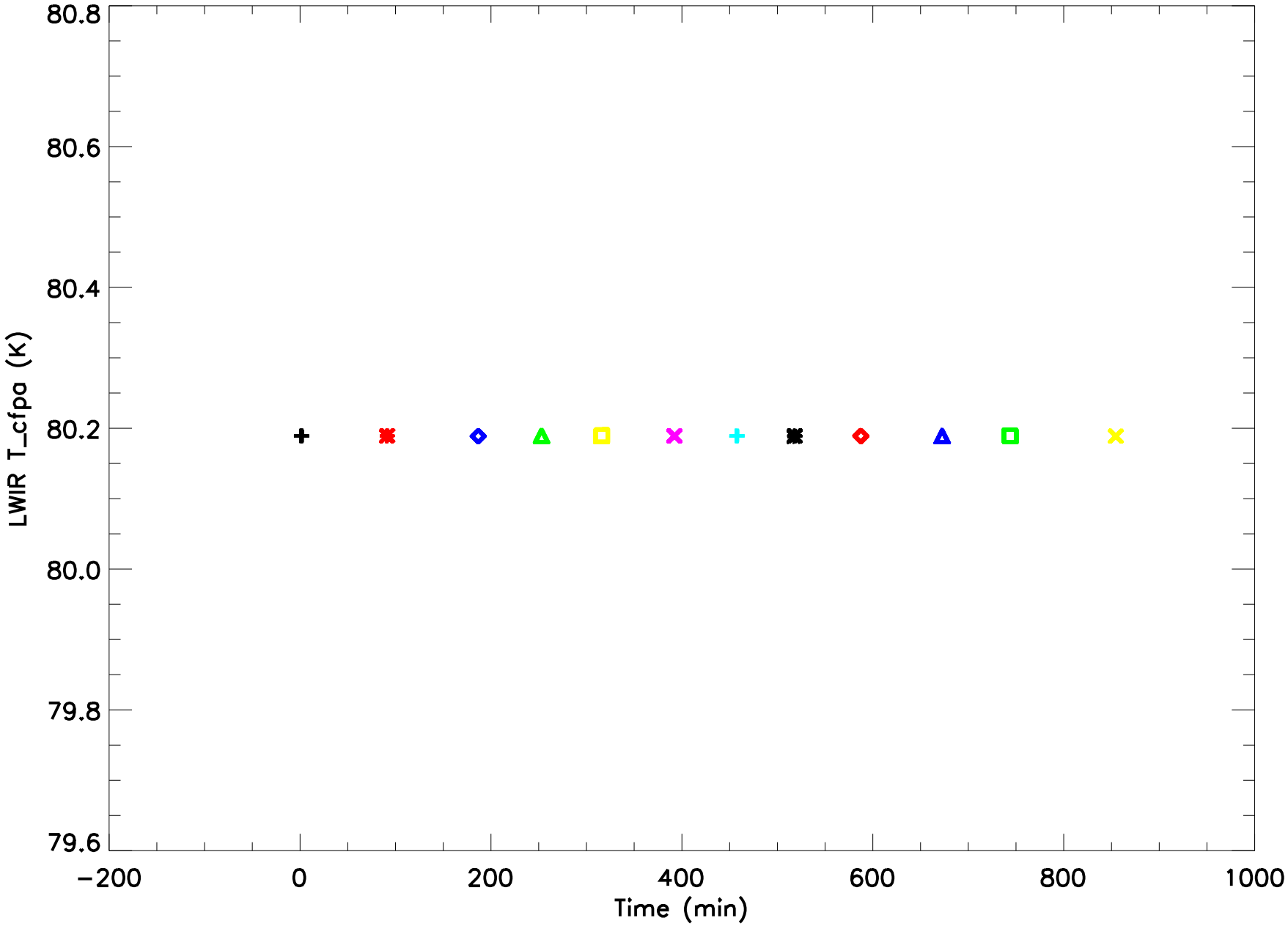

SMWIR T_cfpa vs Time
80.6
80.4
80.2
80.0
79.8
79.6
79.4
SMWIR T_cfpa (K)
−200
0
200
400
600
800
1000
Time (min)

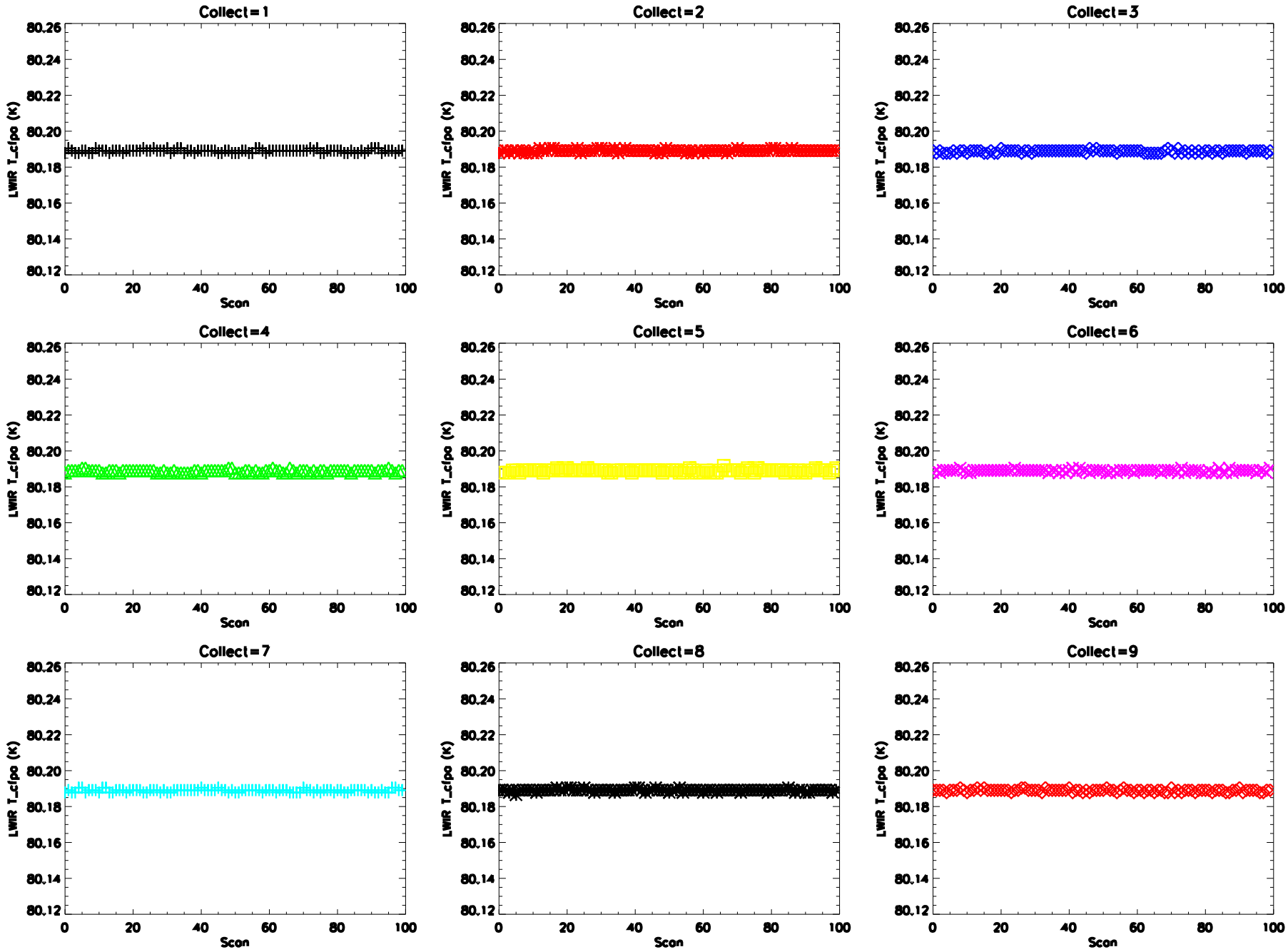

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100

SMWIR T_cfpa vs Scan

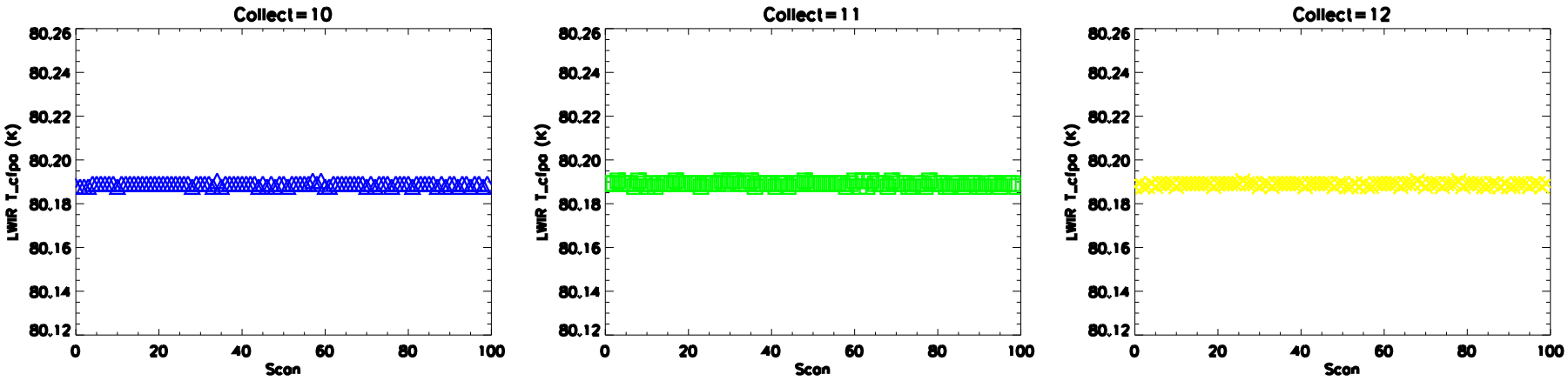


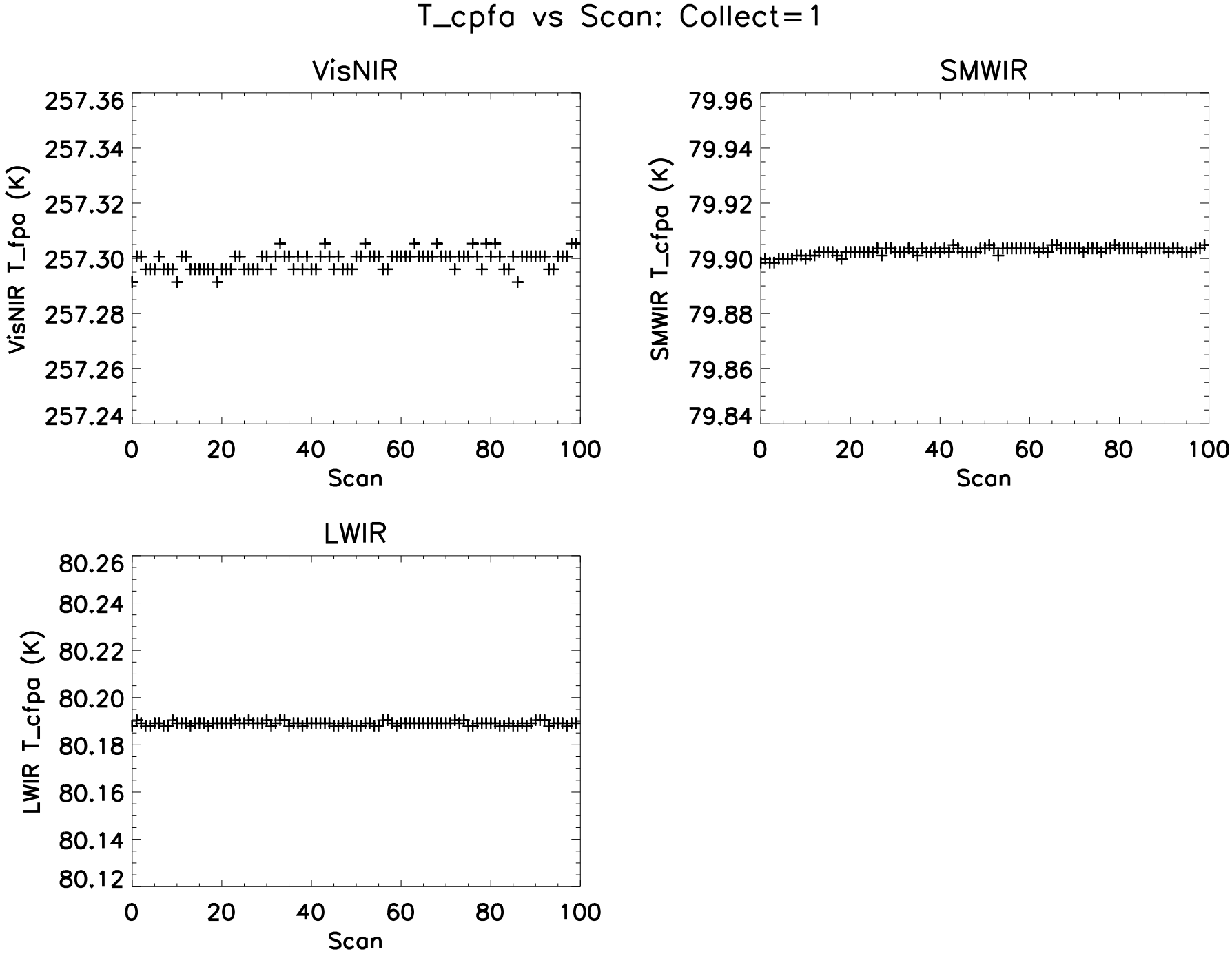

LWIR T_cfpa vs Scan and Collect
LWIR T_cfpa (K)
80.8
80.6
80.4
80.2
80.0
79.8
79.6
0
200
400
600
800
1000
1200
Collect*scan

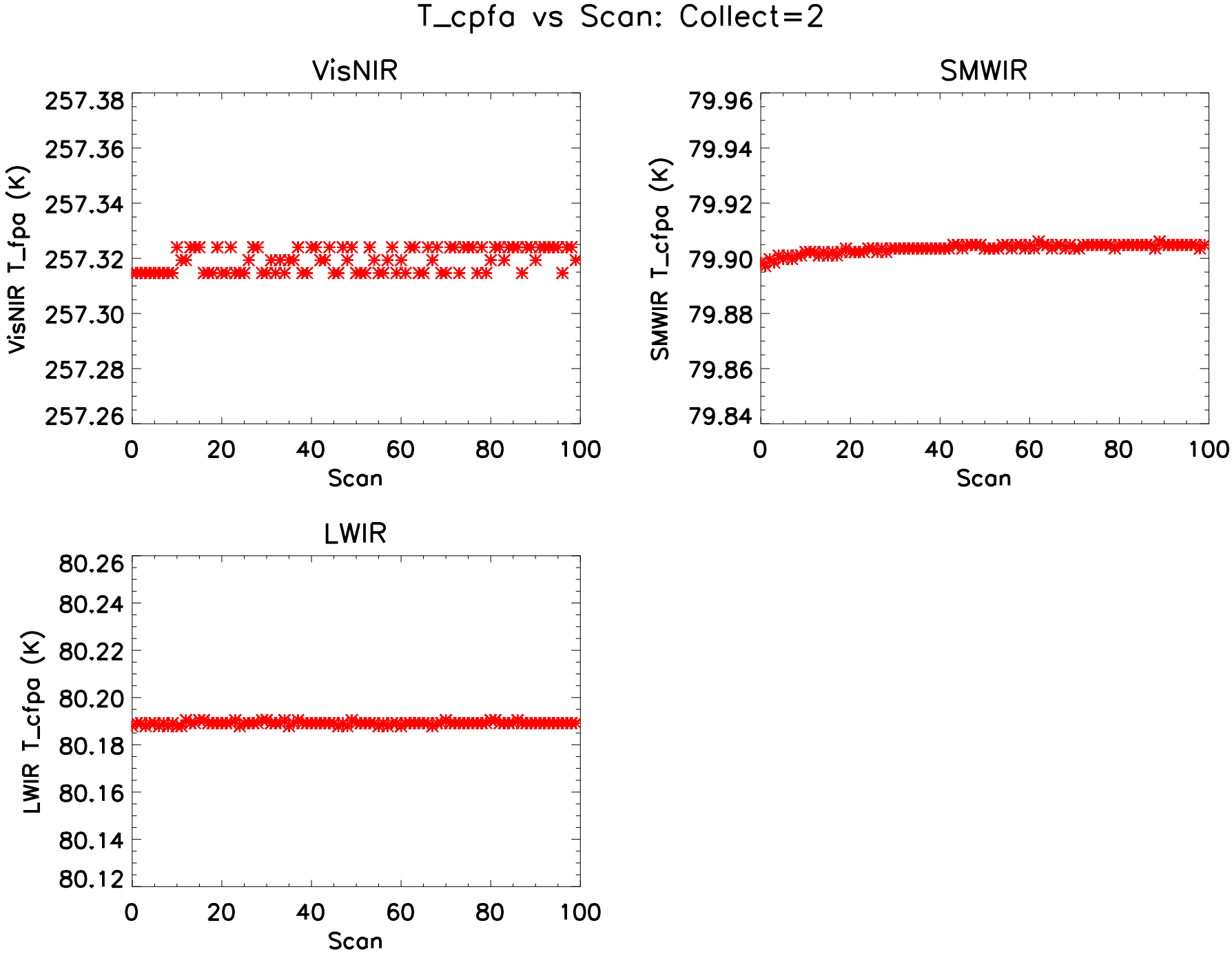

LWIR T_cfpa vs Time
LWIR T_cfpa (K)
80.8
80.6
80.4
80.2
80.0
79.8
79.6
−200
0
200
400
600
800
1000
Time (min)

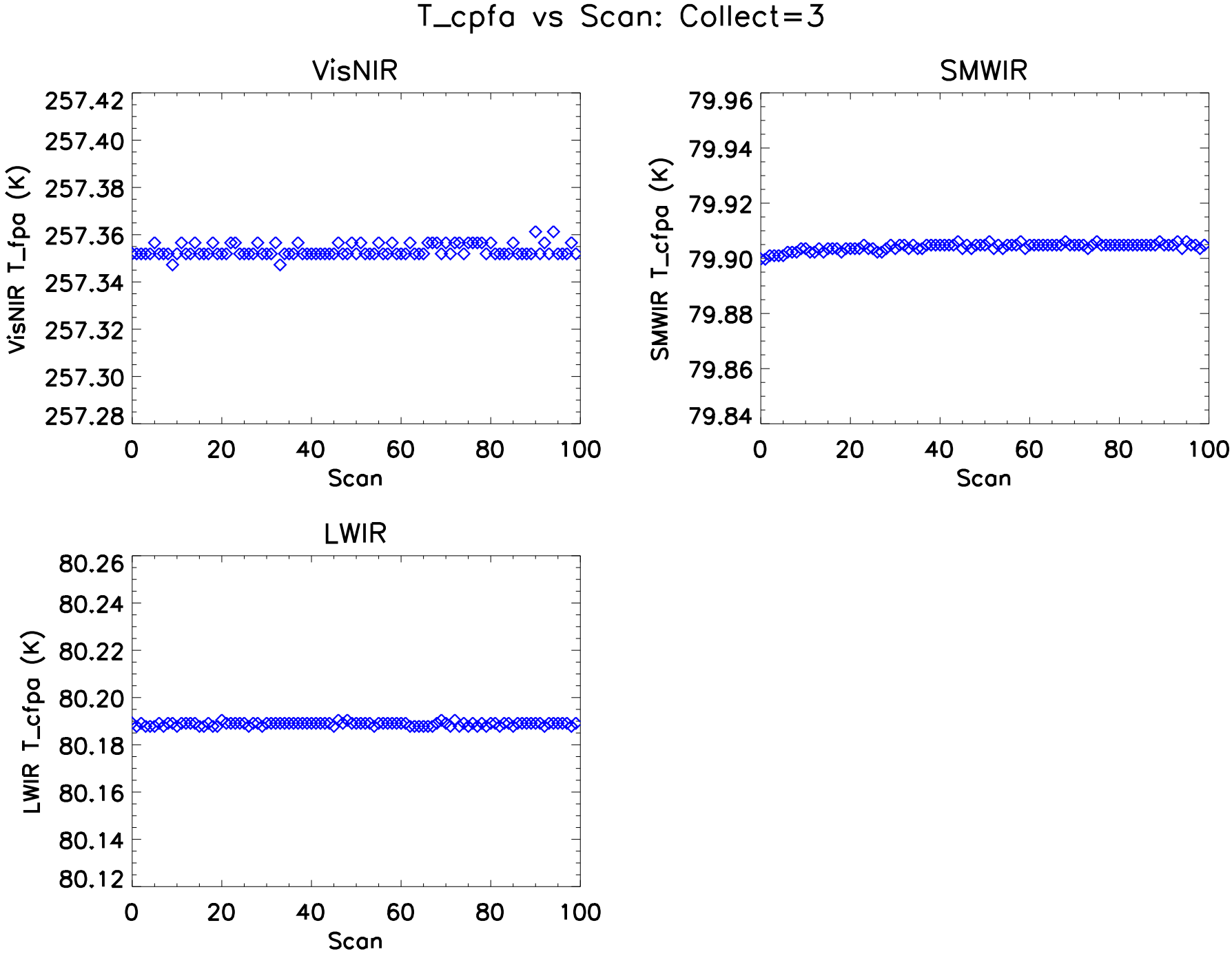

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_cfpa (K)
Scan
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100

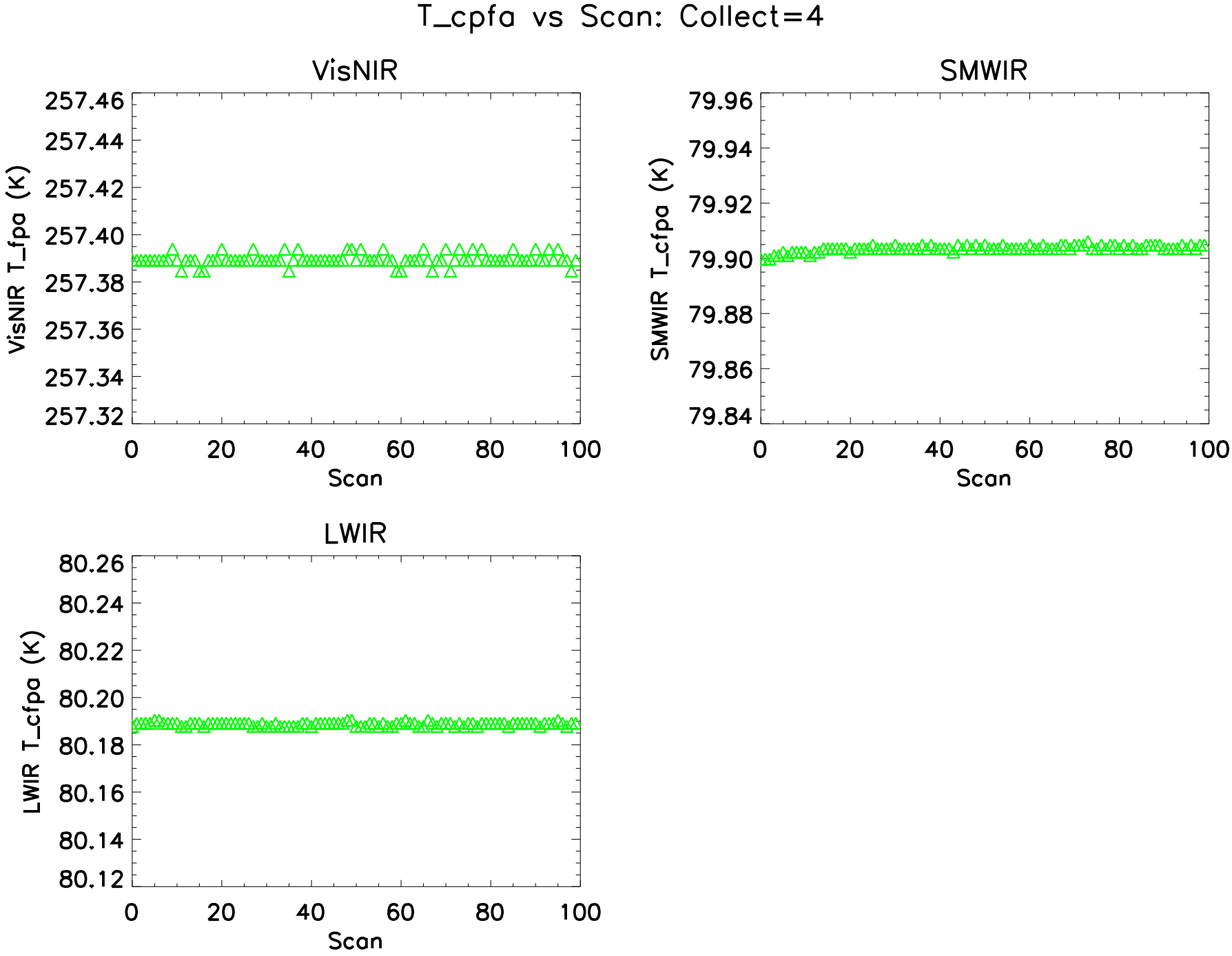
LWIR T_cfpa vs Scan

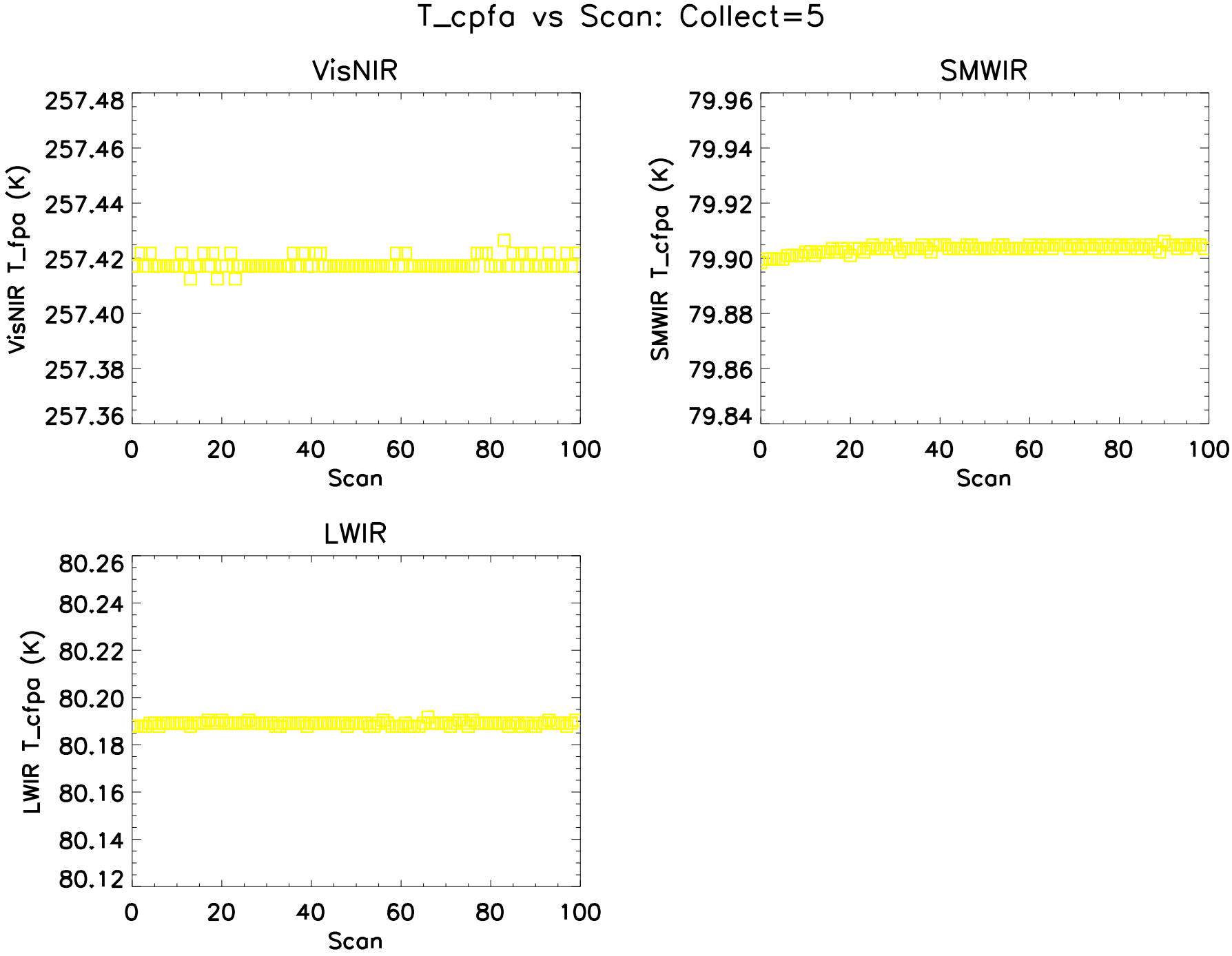


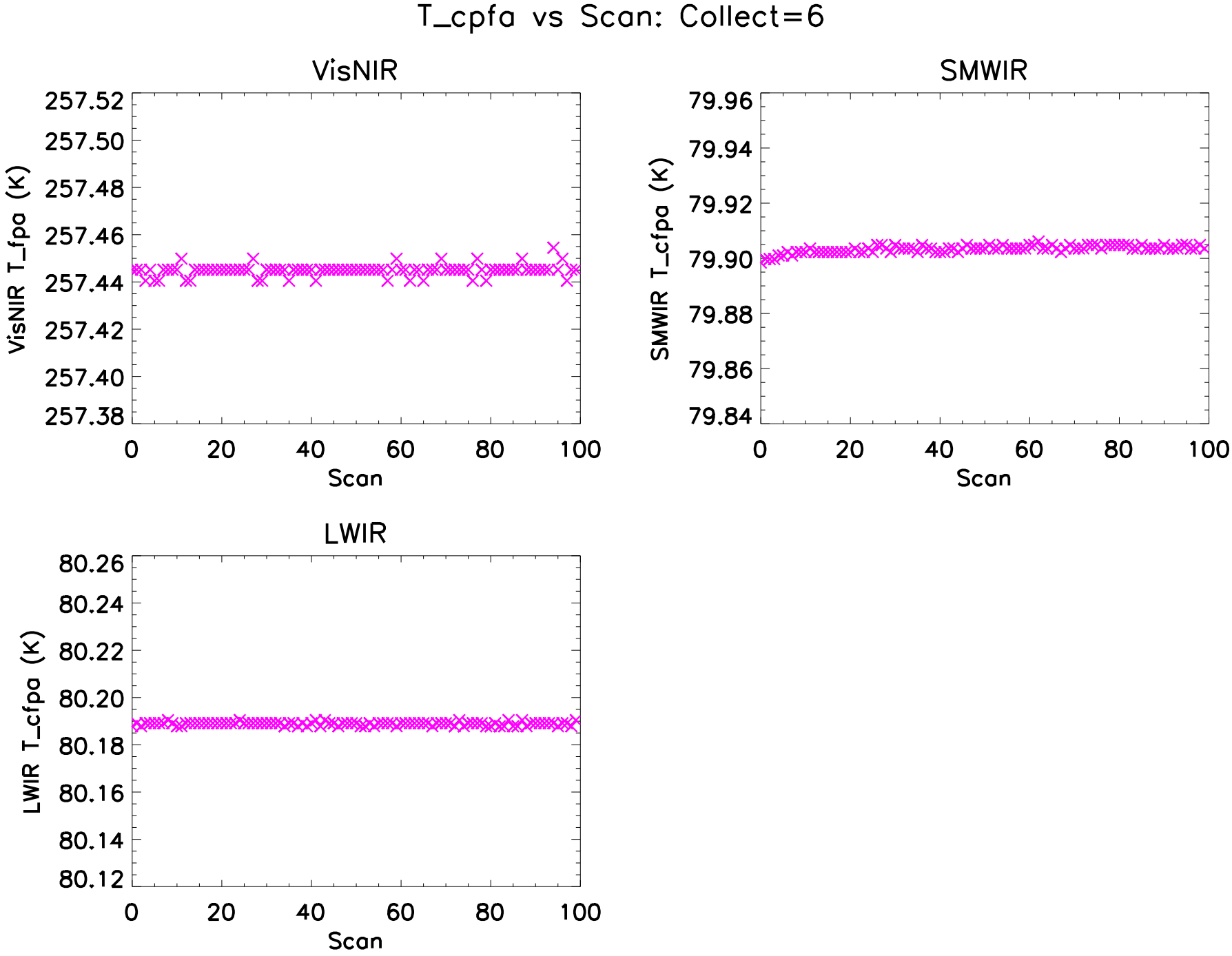

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
257.36
257.34
257.32
257.30
257.28
257.26
257.24
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

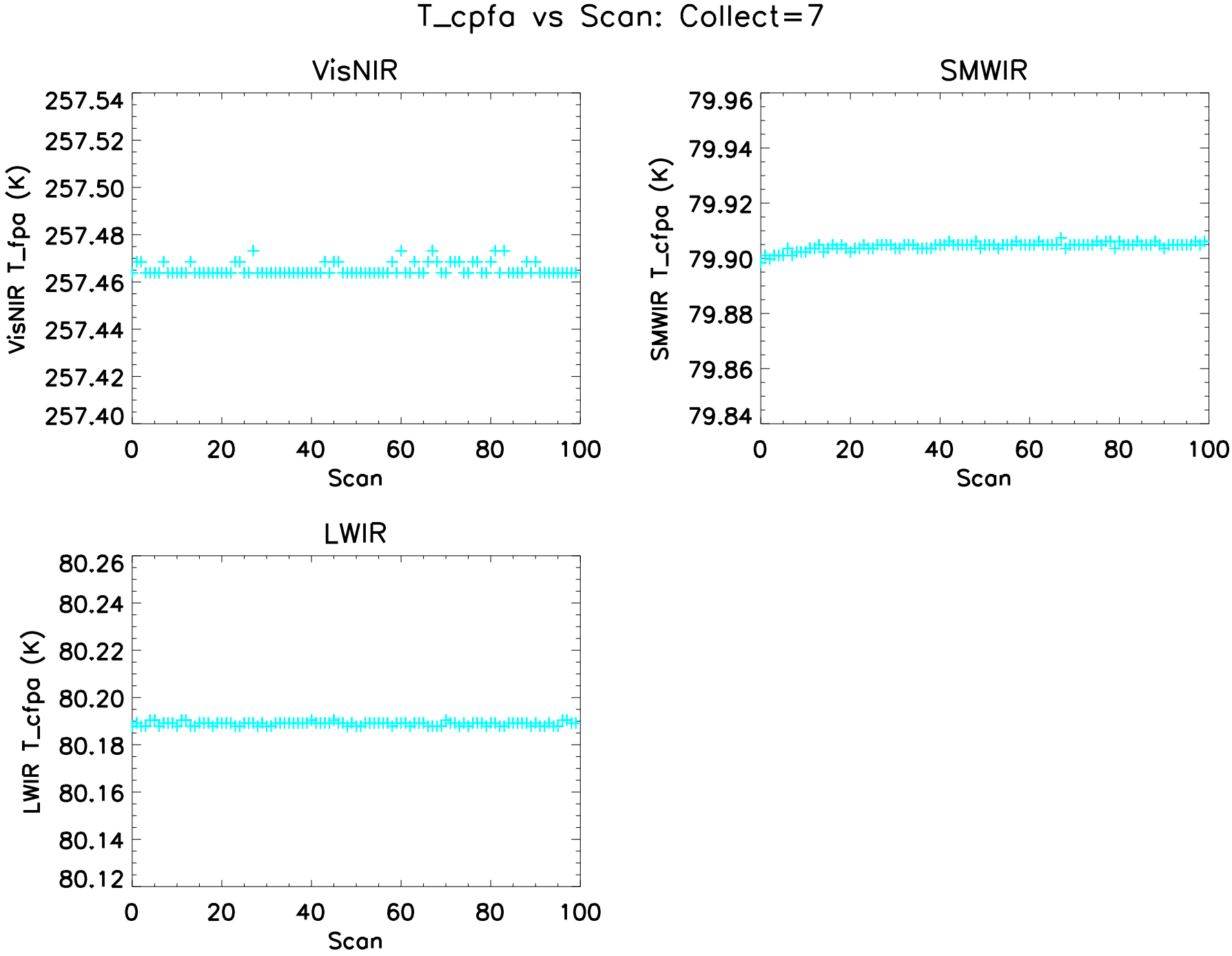

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
257.38
257.36
257.34
257.32
257.30
257.28
257.26
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

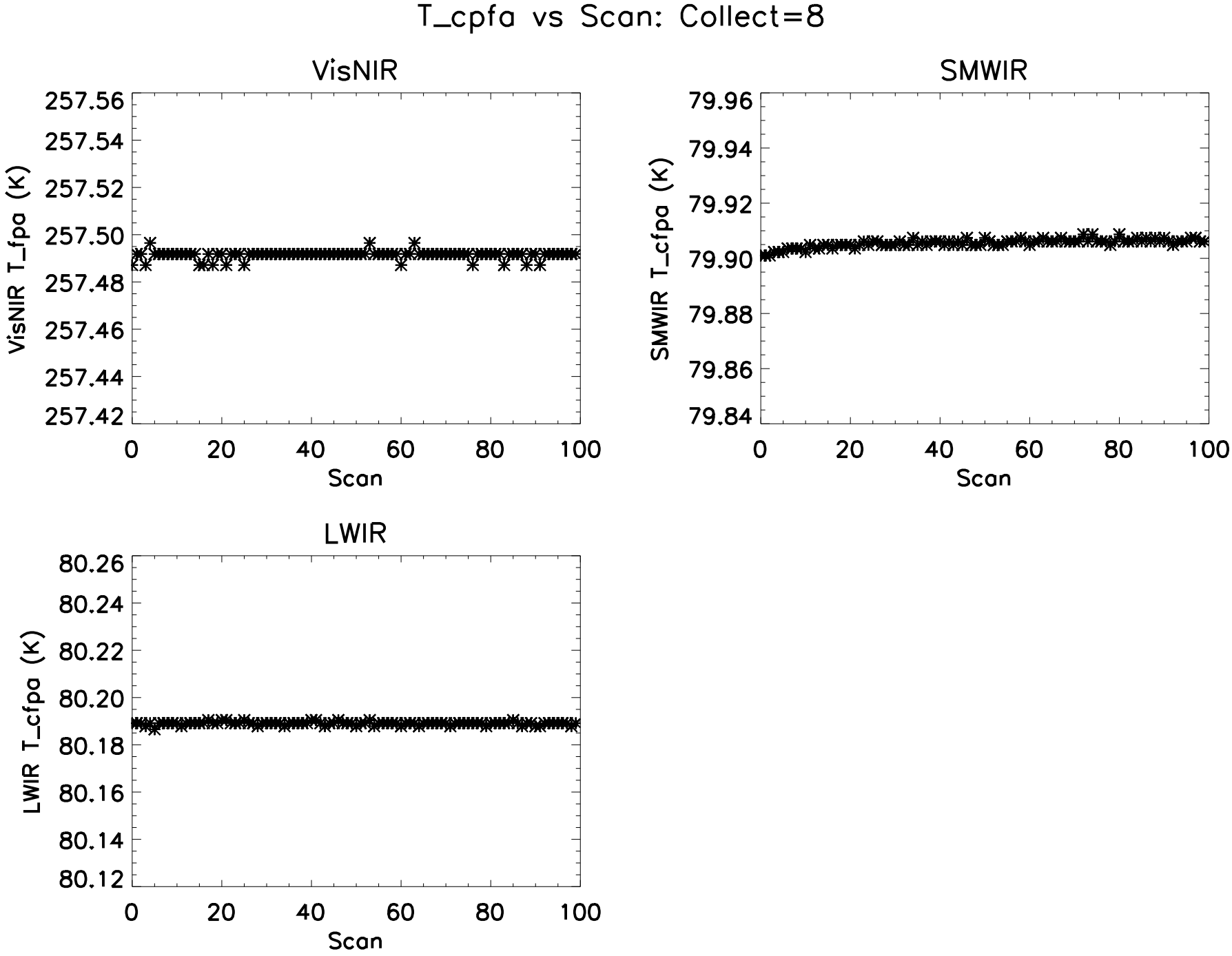

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
257.42
257.40
257.38
257.36
257.34
257.32
257.30
257.28
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

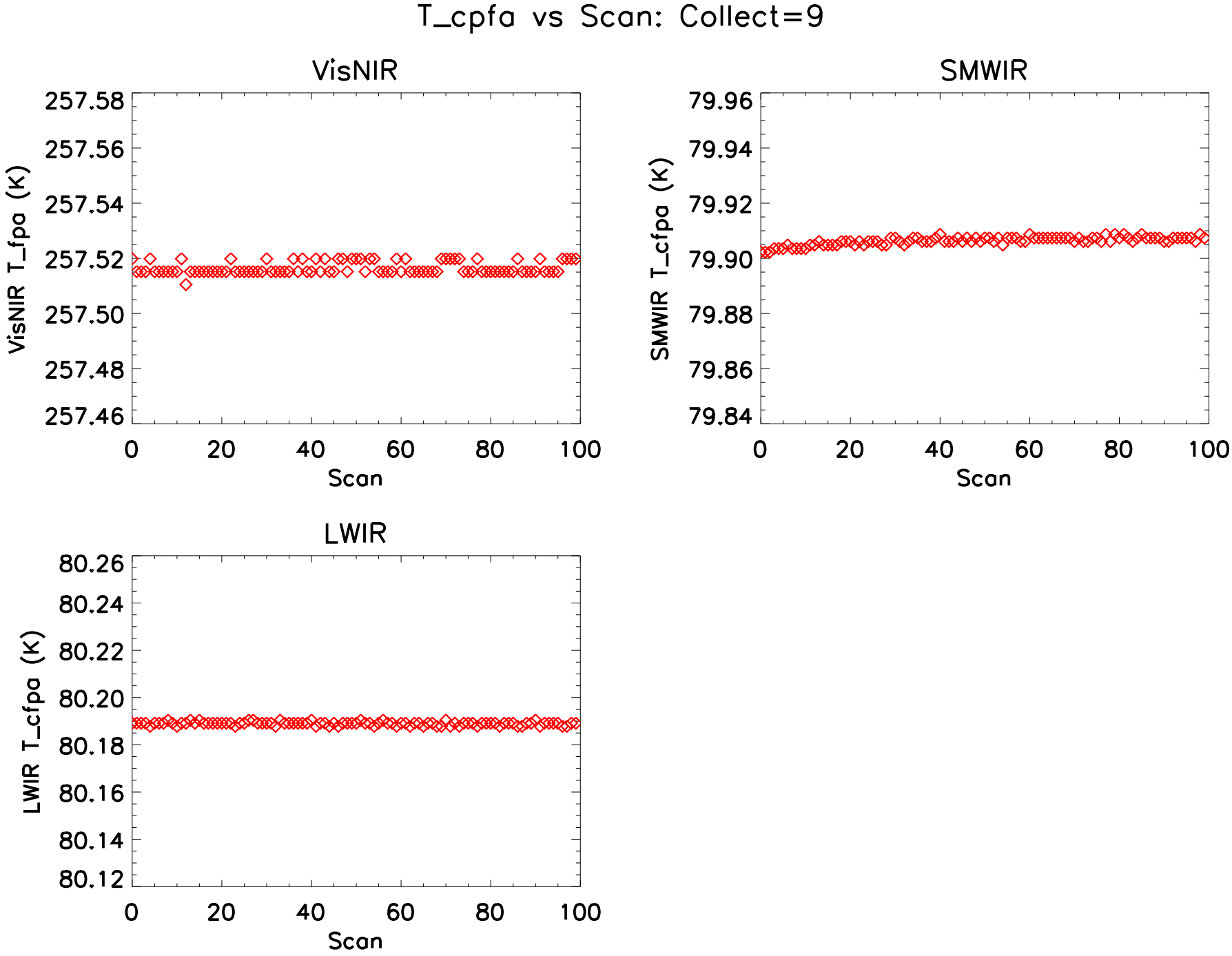

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
257.46
257.44
257.42
257.40
257.38
257.36
257.34
257.32
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

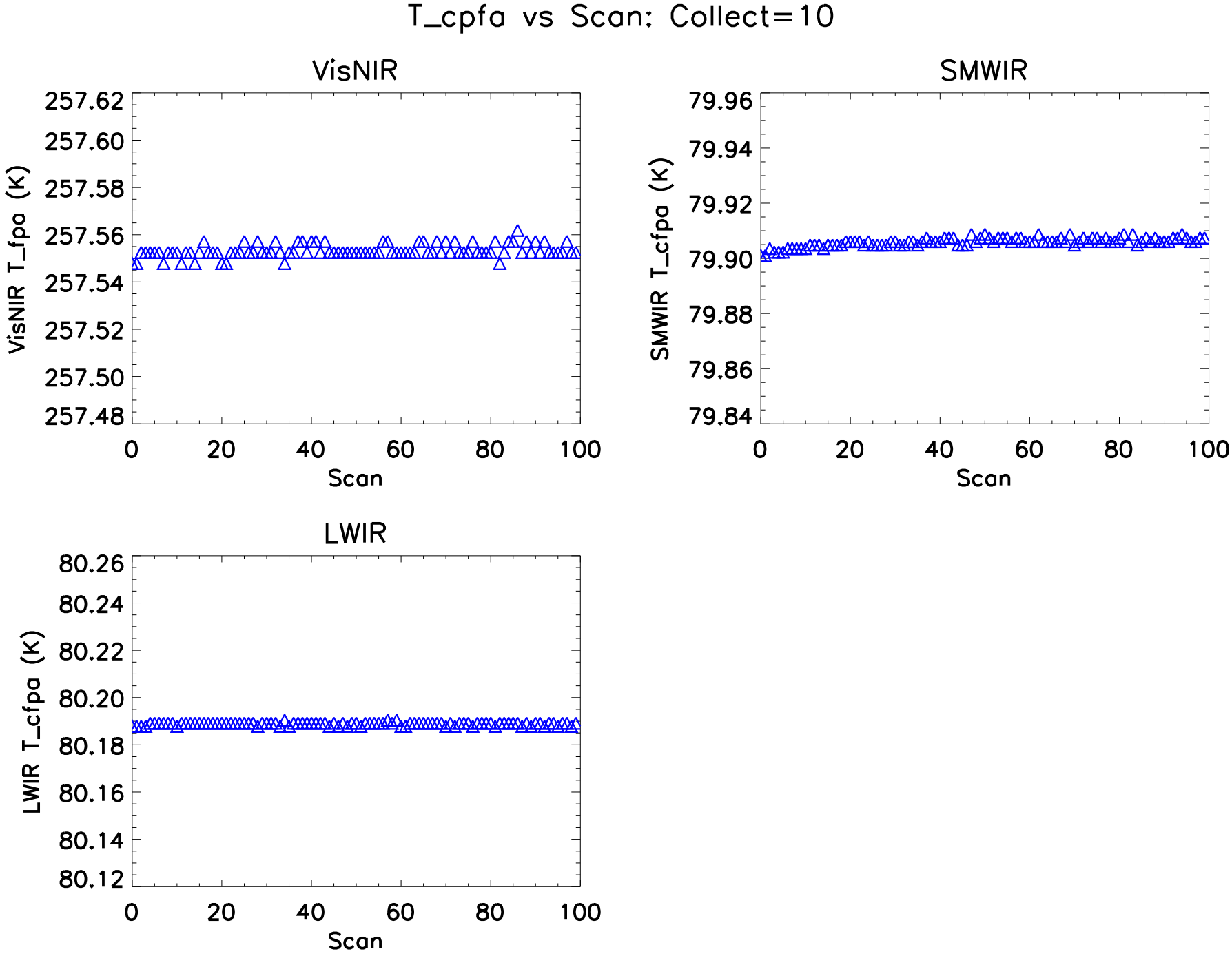

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
257.48
257.46
257.44
257.42
257.40
257.38
257.36
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

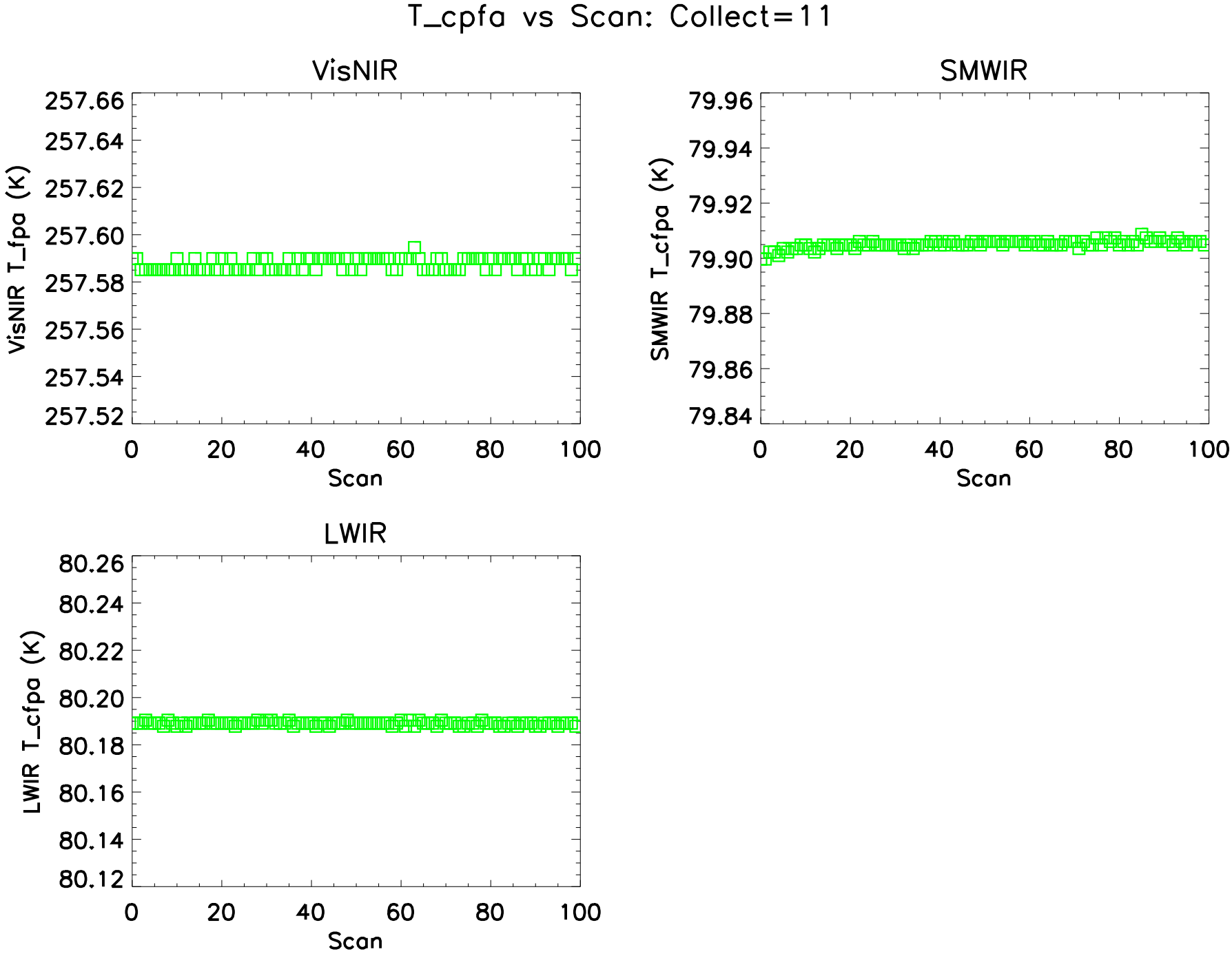

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
257.52
257.50
257.48
257.46
257.44
257.42
257.40
257.38
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

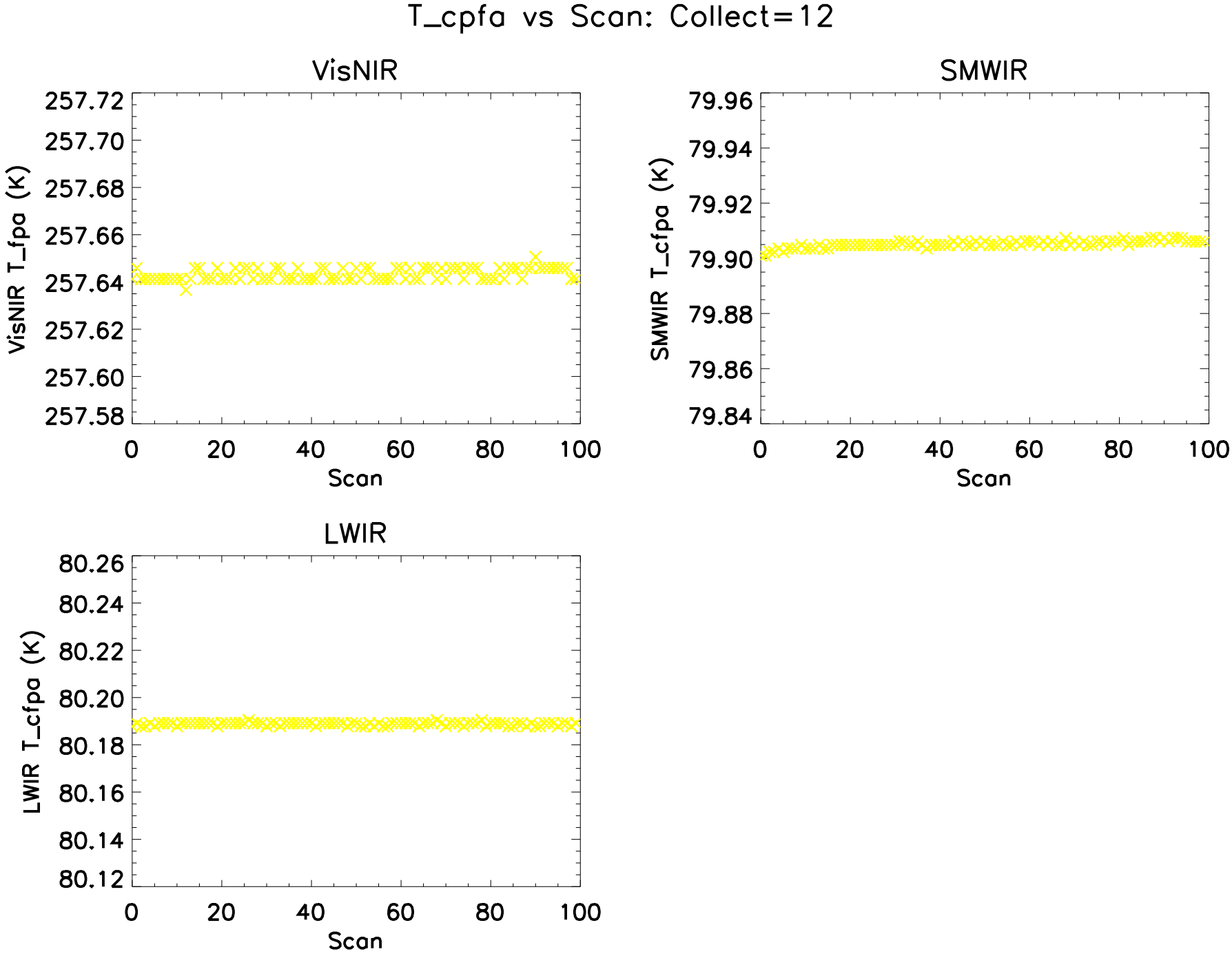

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
257.54
257.52
257.50
257.48
257.46
257.44
257.42
257.40
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

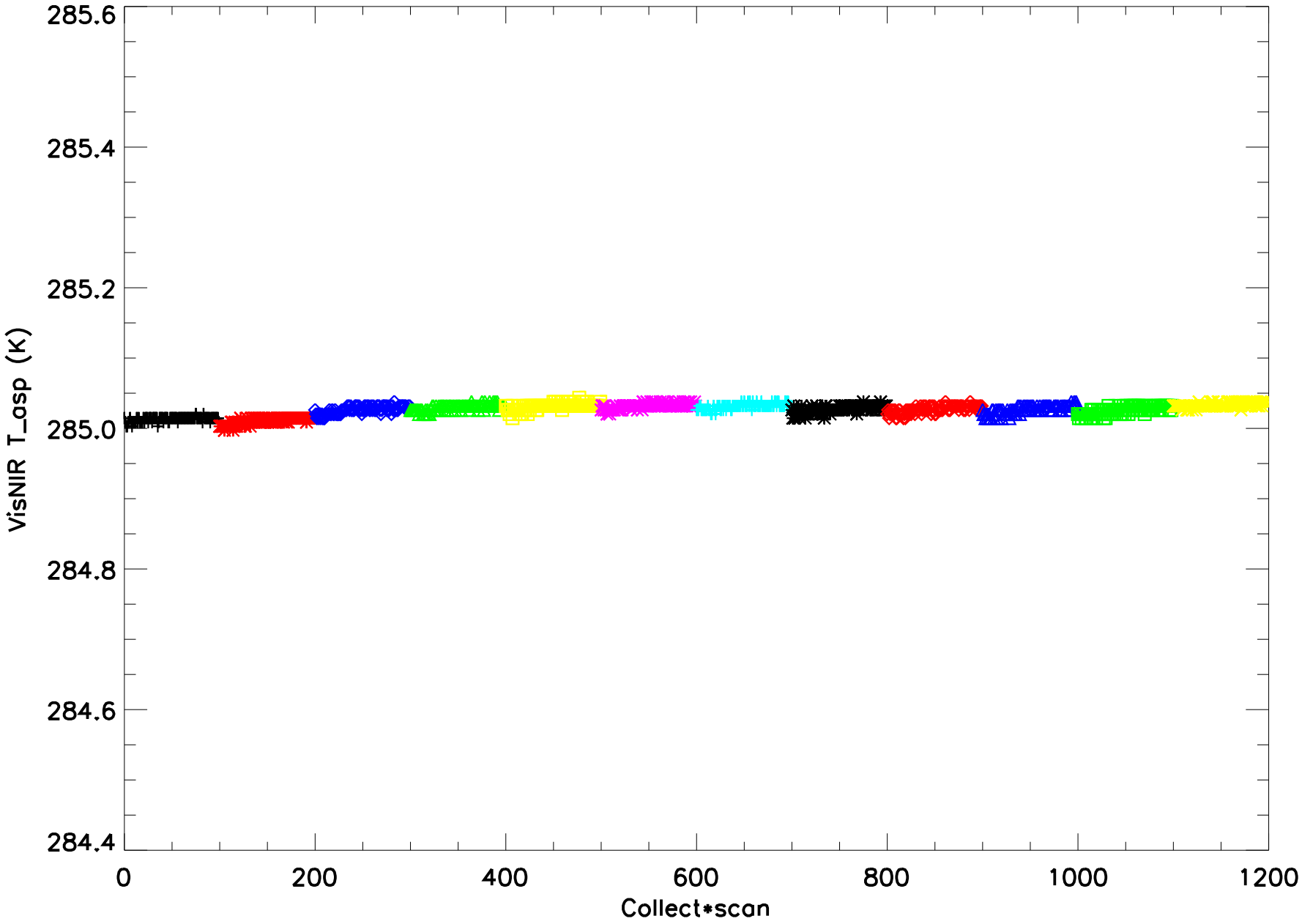

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
257.56
257.54
257.52
257.50
257.48
257.46
257.44
257.42
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

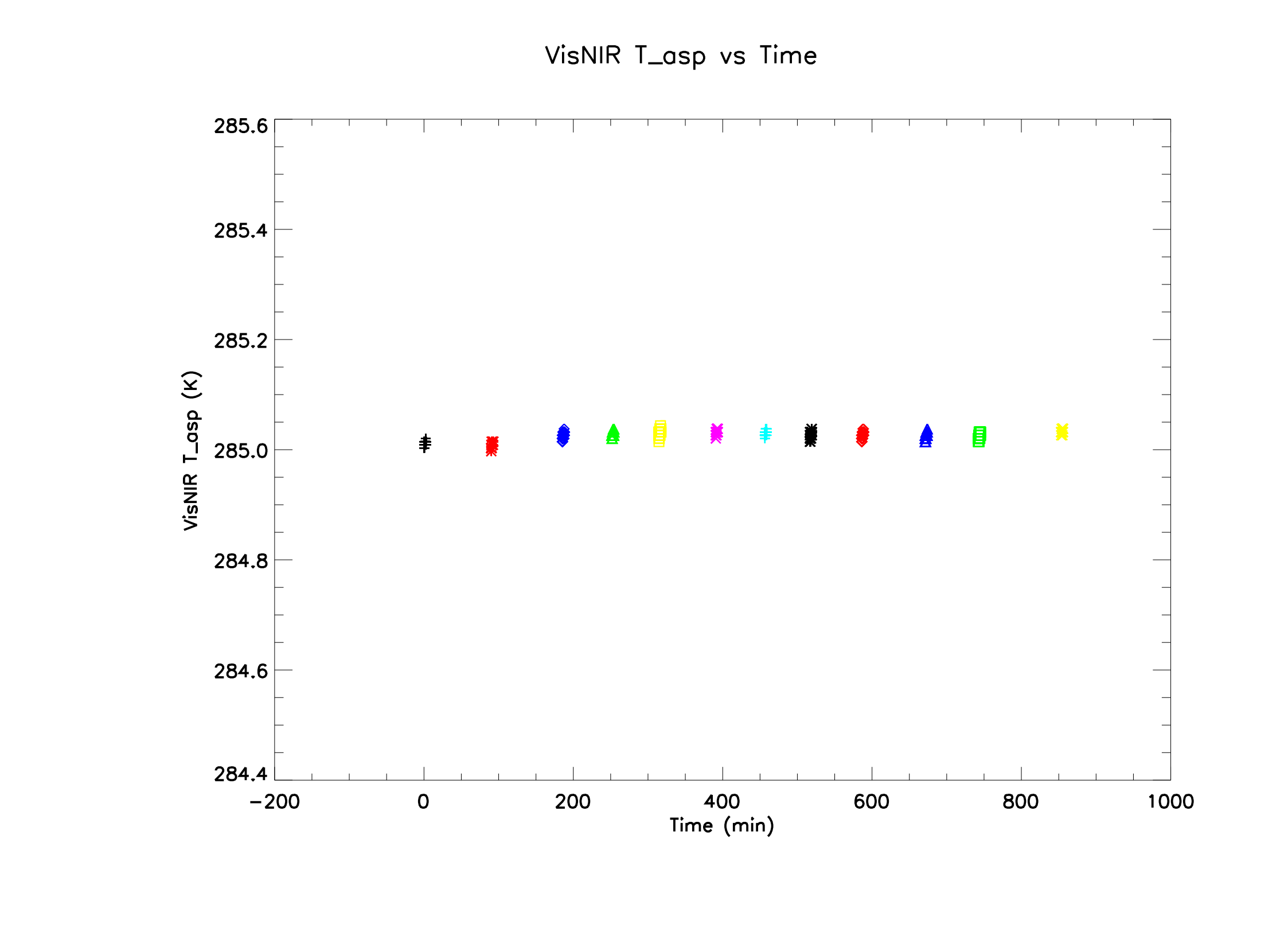

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
257.58
257.56
257.54
257.52
257.50
257.48
257.46
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

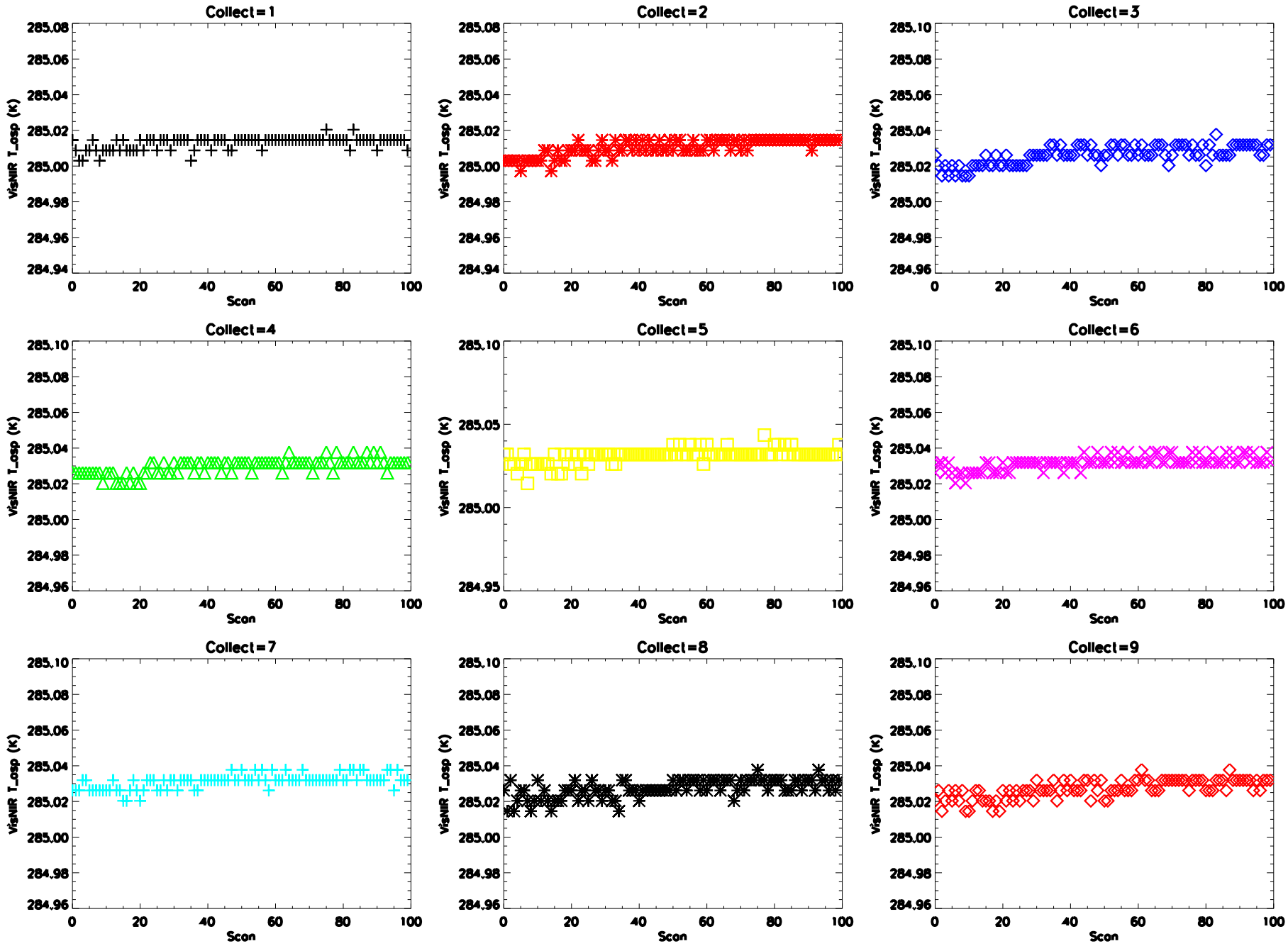

T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
257.62
257.60
257.58
257.56
257.54
257.52
257.50
257.48
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan


T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
257.66
257.64
257.62
257.60
257.58
257.56
257.54
257.52
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
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

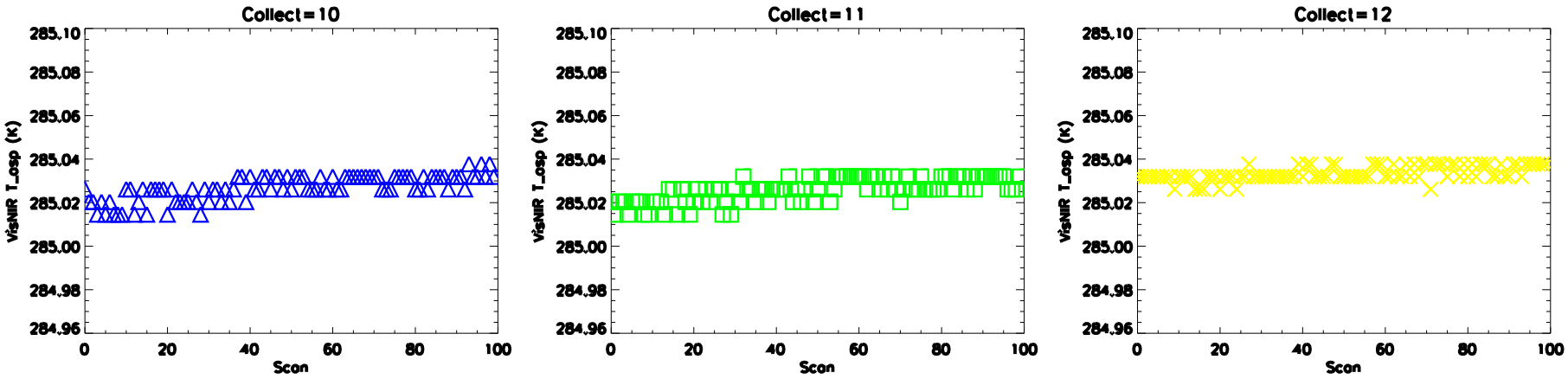

T_cpfa vs Scan: Collect=12
VisNIR
VisNIR T_fpa (K)
257.72
257.70
257.68
257.66
257.64
257.62
257.60
257.58
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
79.96
79.94
79.92
79.90
79.88
79.86
79.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
80.26
80.24
80.22
80.20
80.18
80.16
80.14
80.12
0
20
40
60
80
100
Scan

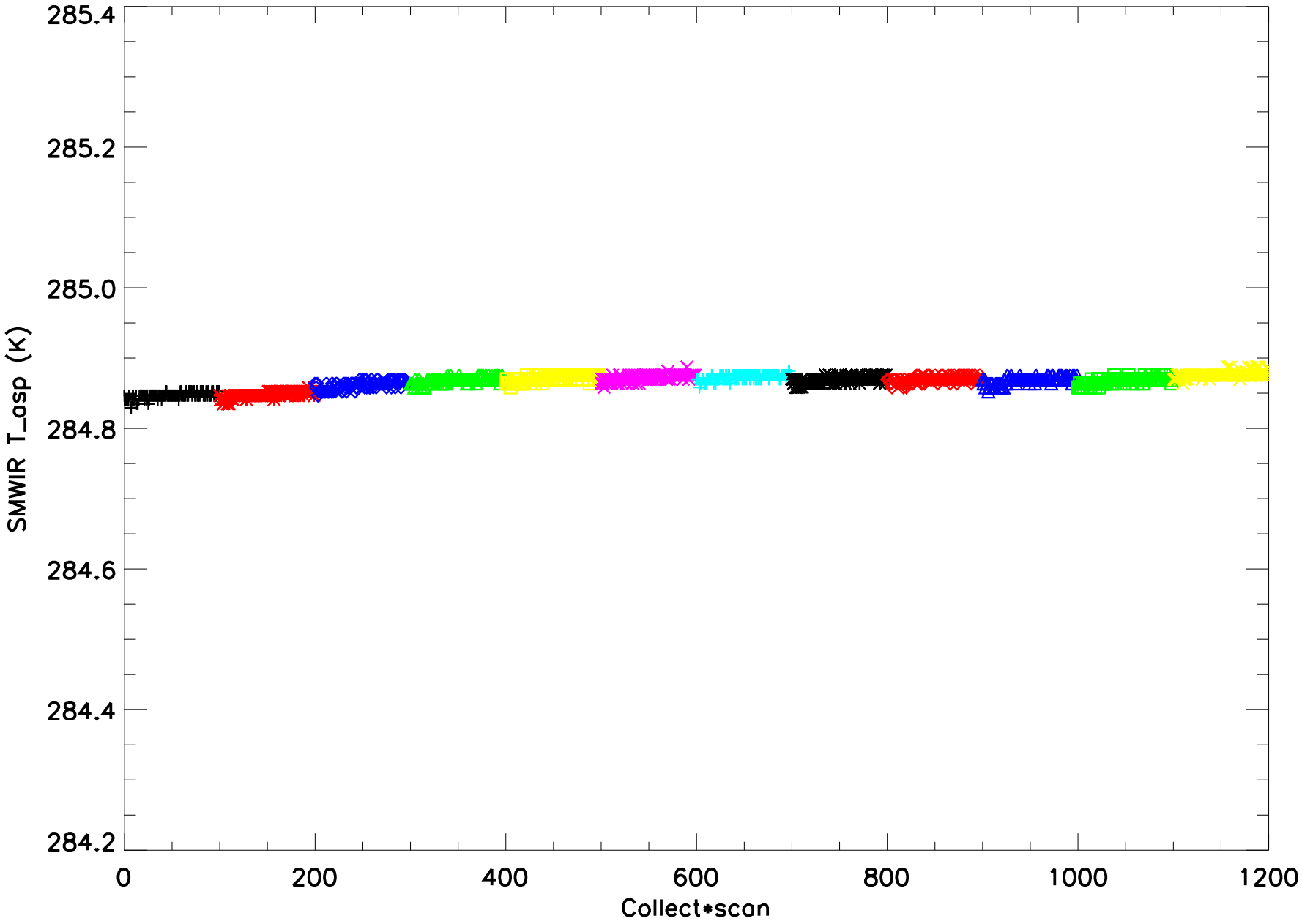

VisNIR T_asp vs Scan and Collect
VisNIR T_asp (K)
285.6
285.4
285.2
285.0
284.8
284.6
284.4
0
200
400
600
800
1000
1200
Collect*scan

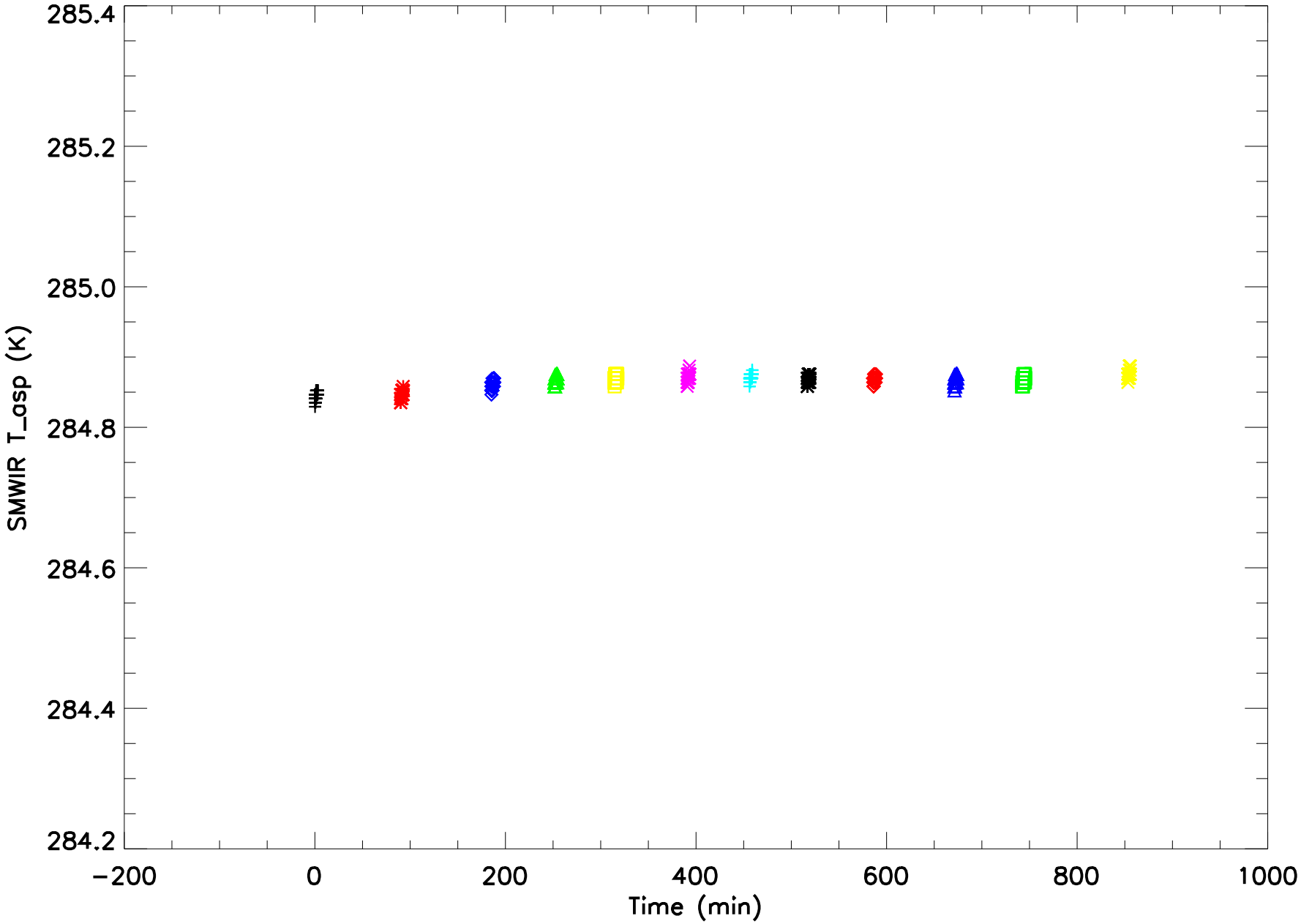

VisNIR T_asp vs Time
VisNIR T_asp (K)
285.6
285.4
285.2
285.0
284.8
284.6
284.4
−200
0
200
400
600
800
1000
Time (min)

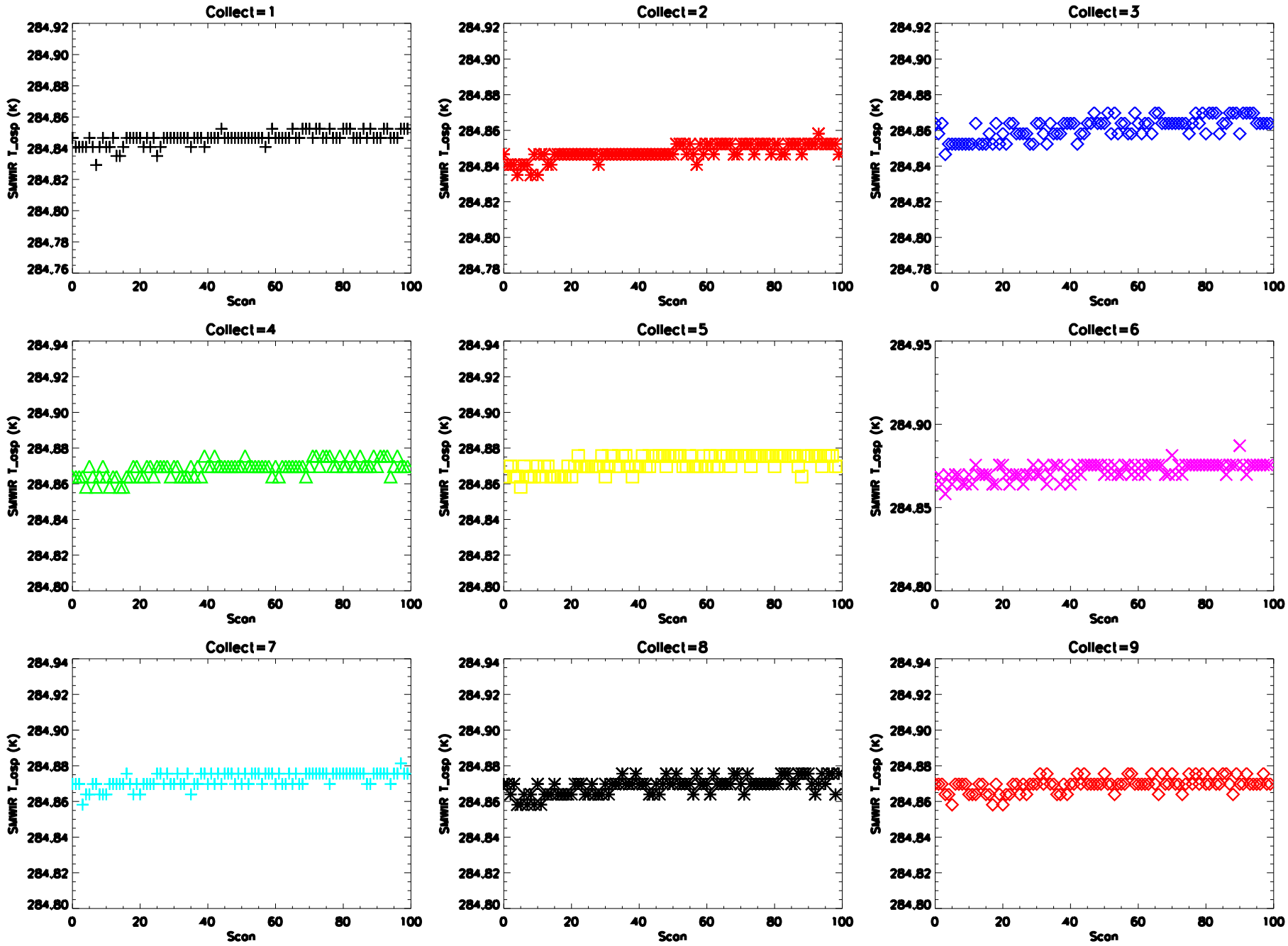

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_osp (K)
Scan

VisNIR T_asp vs Scan

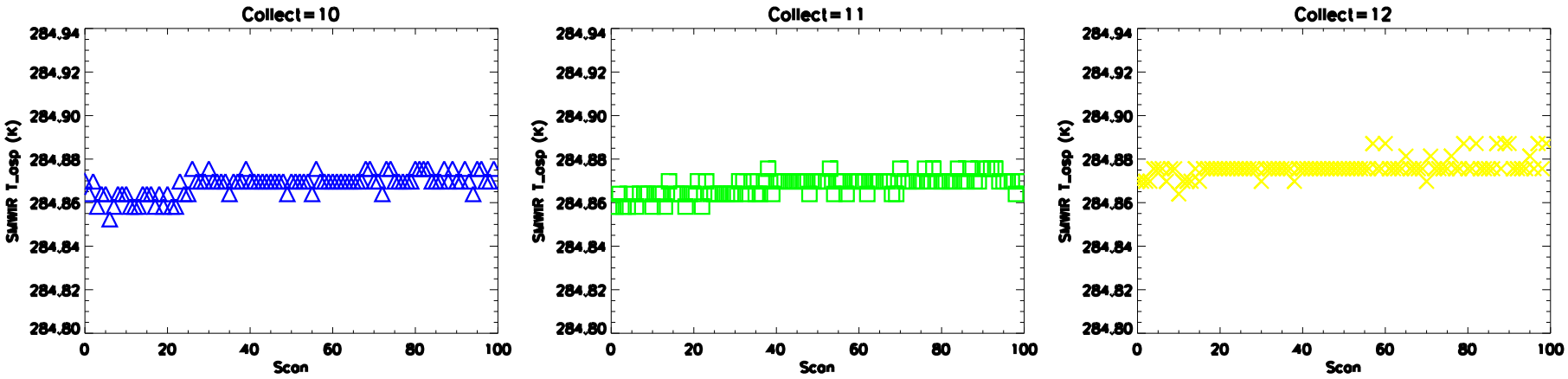


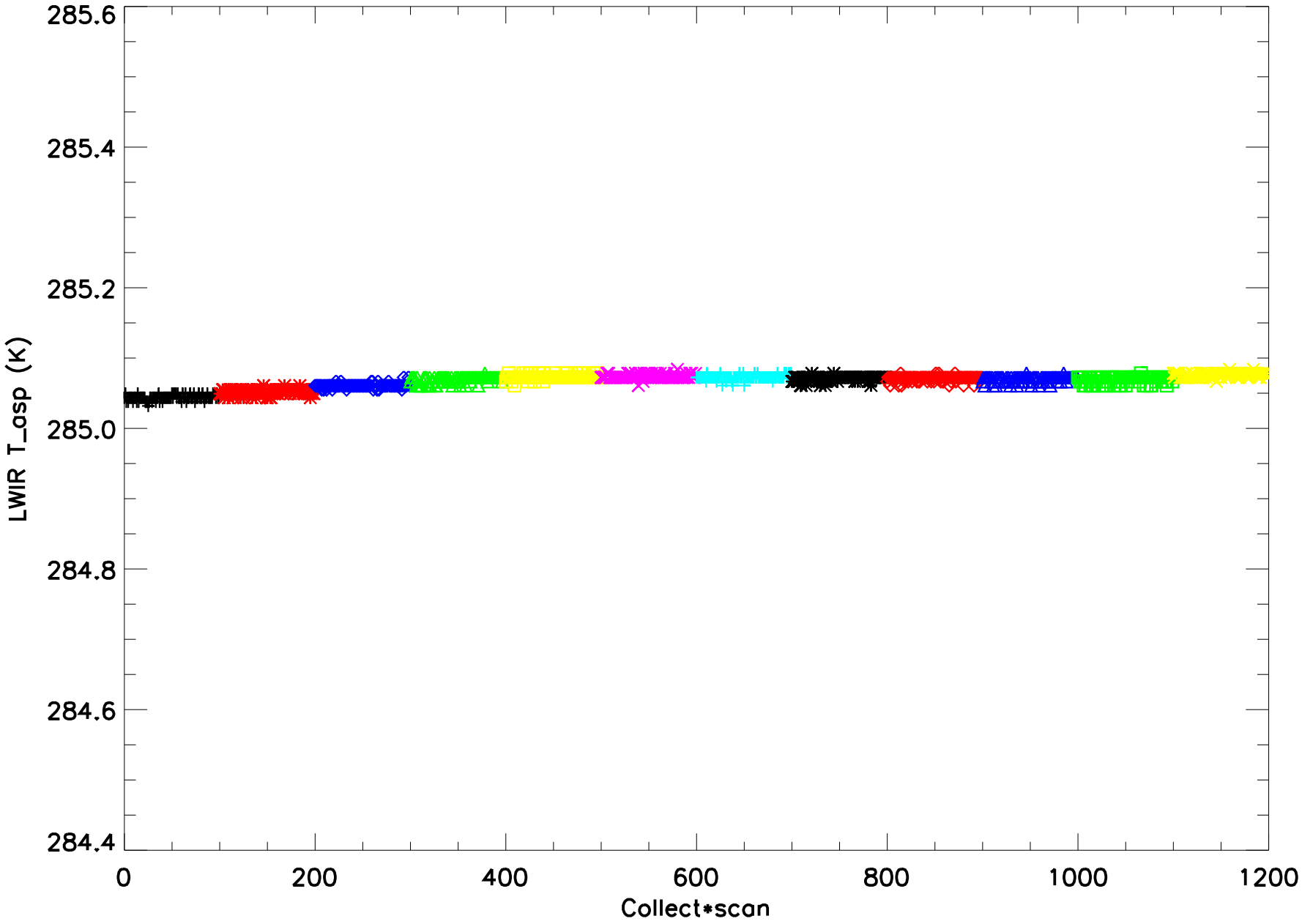

SMWIR T_asp vs Scan and Collect
285.4
285.2
285.0
284.8
284.6
284.4
284.2
SMWIR T_asp (K)
0
200
400
600
800
1000
1200
Collect*scan

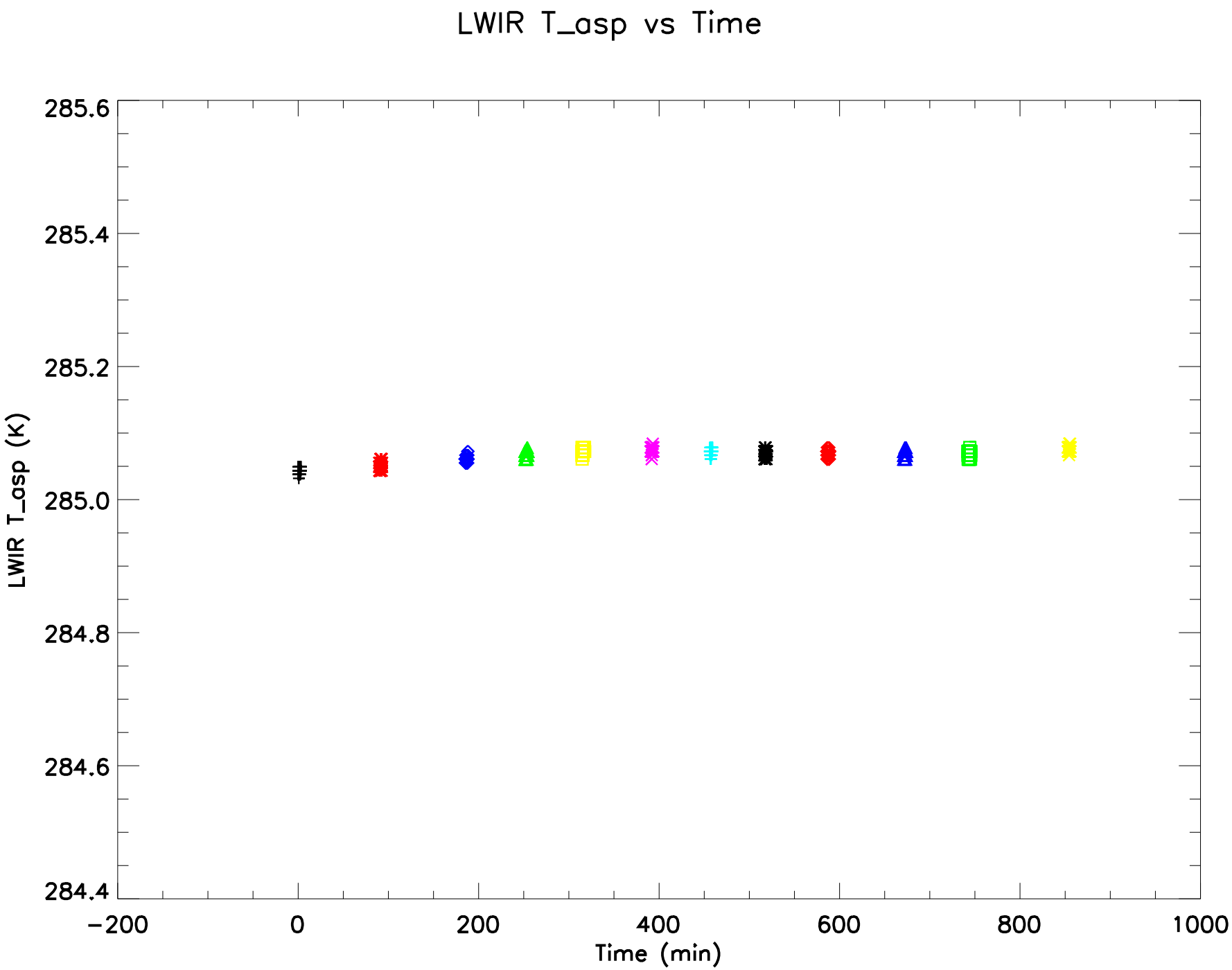

SMWIR T_asp vs Time
285.4
285.2
285.0
284.8
284.6
284.4
284.2
SMWIR T_asp (K)
−200
0
200
400
600
800
1000
Time (min)

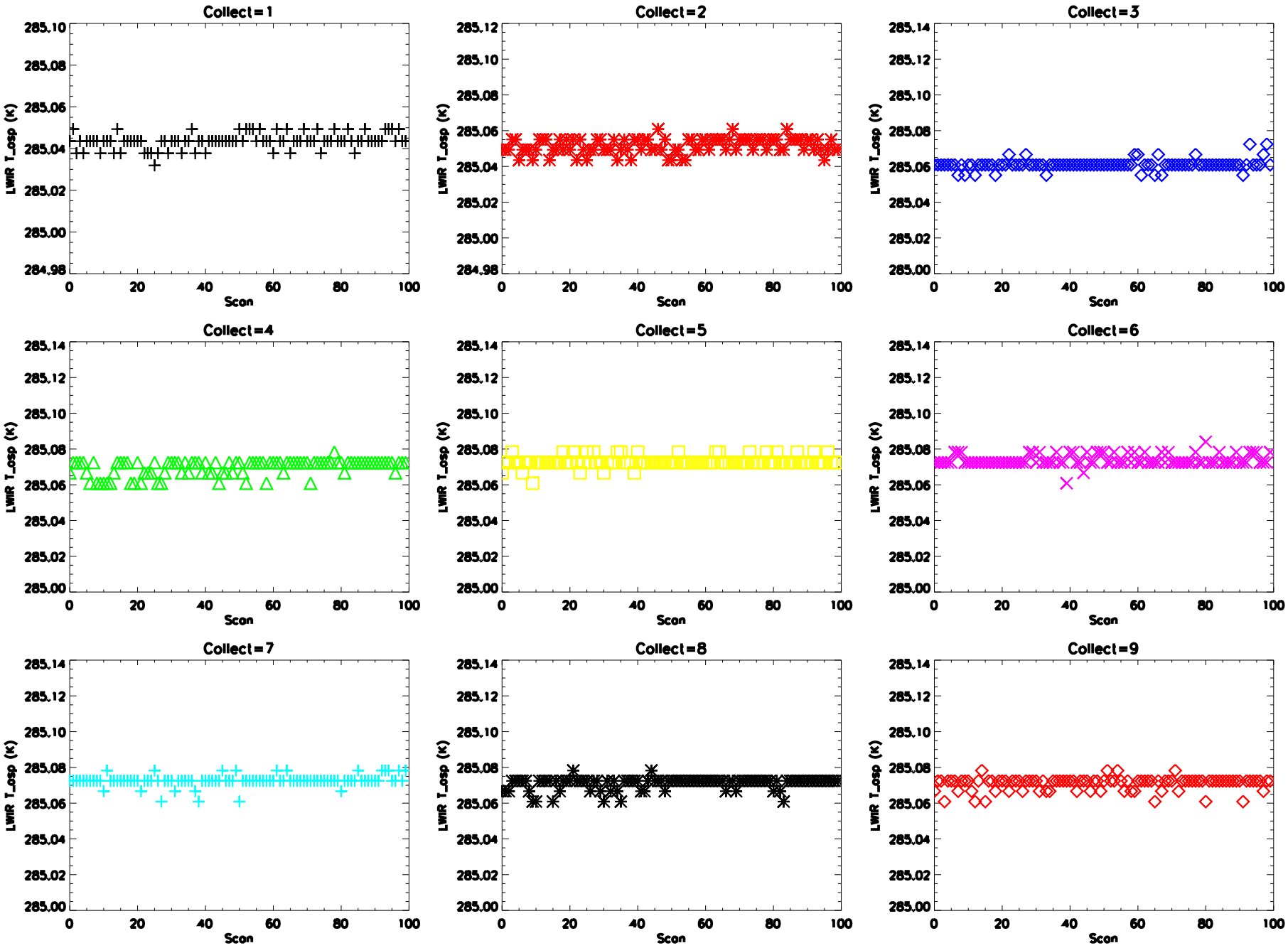

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SWWR T_osp (K)
Scan

SMWIR T_asp vs Scan

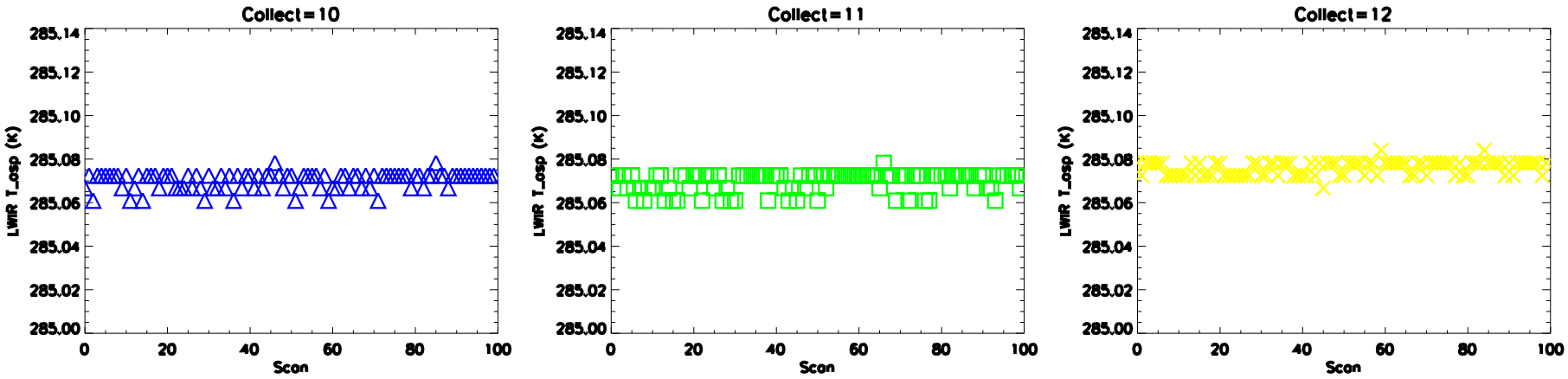


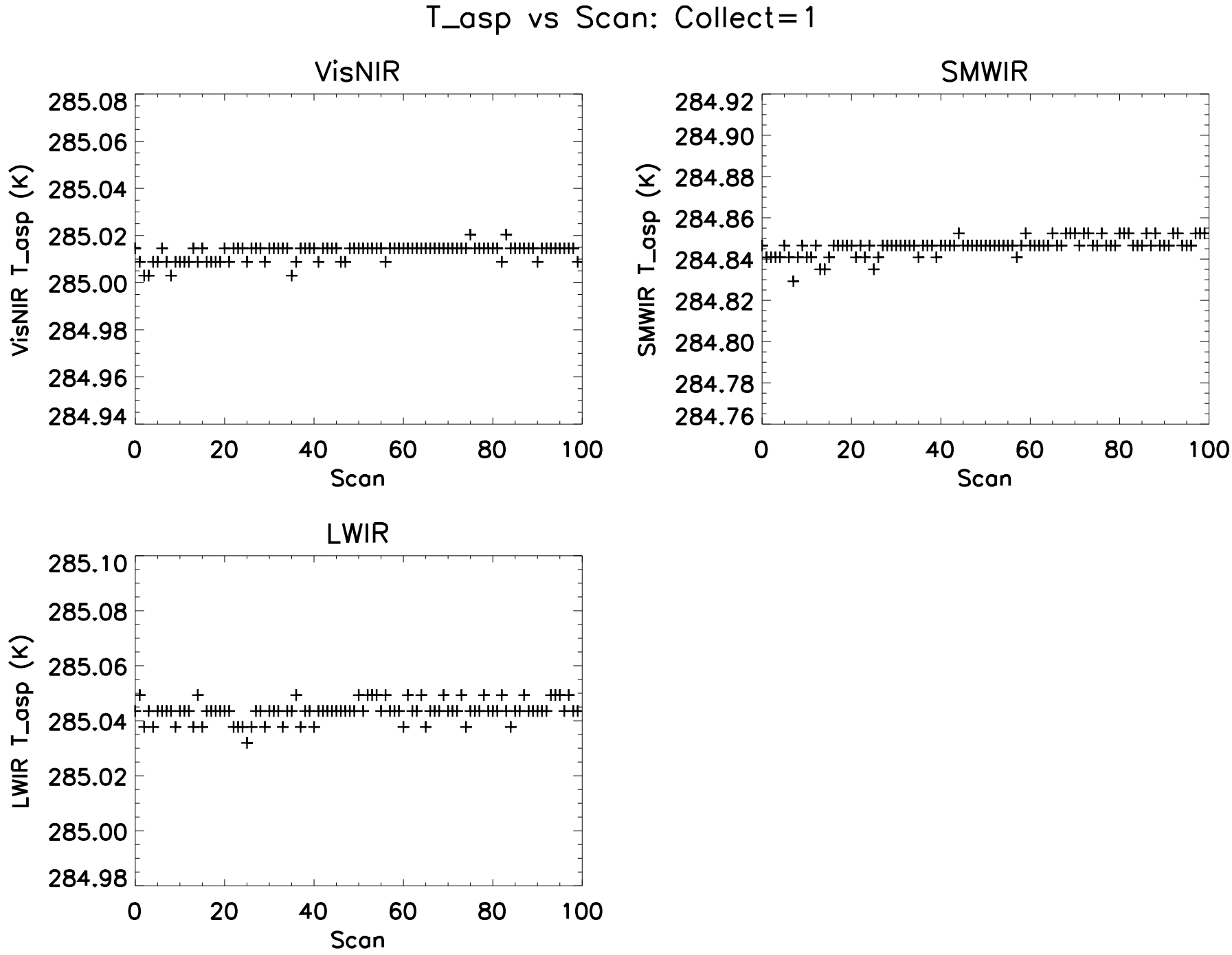

LWIR T_asp vs Scan and Collect
LWIR T_asp (K)
285.6
285.4
285.2
285.0
284.8
284.6
284.4
0
200
400
600
800
1000
1200
Collect*scan

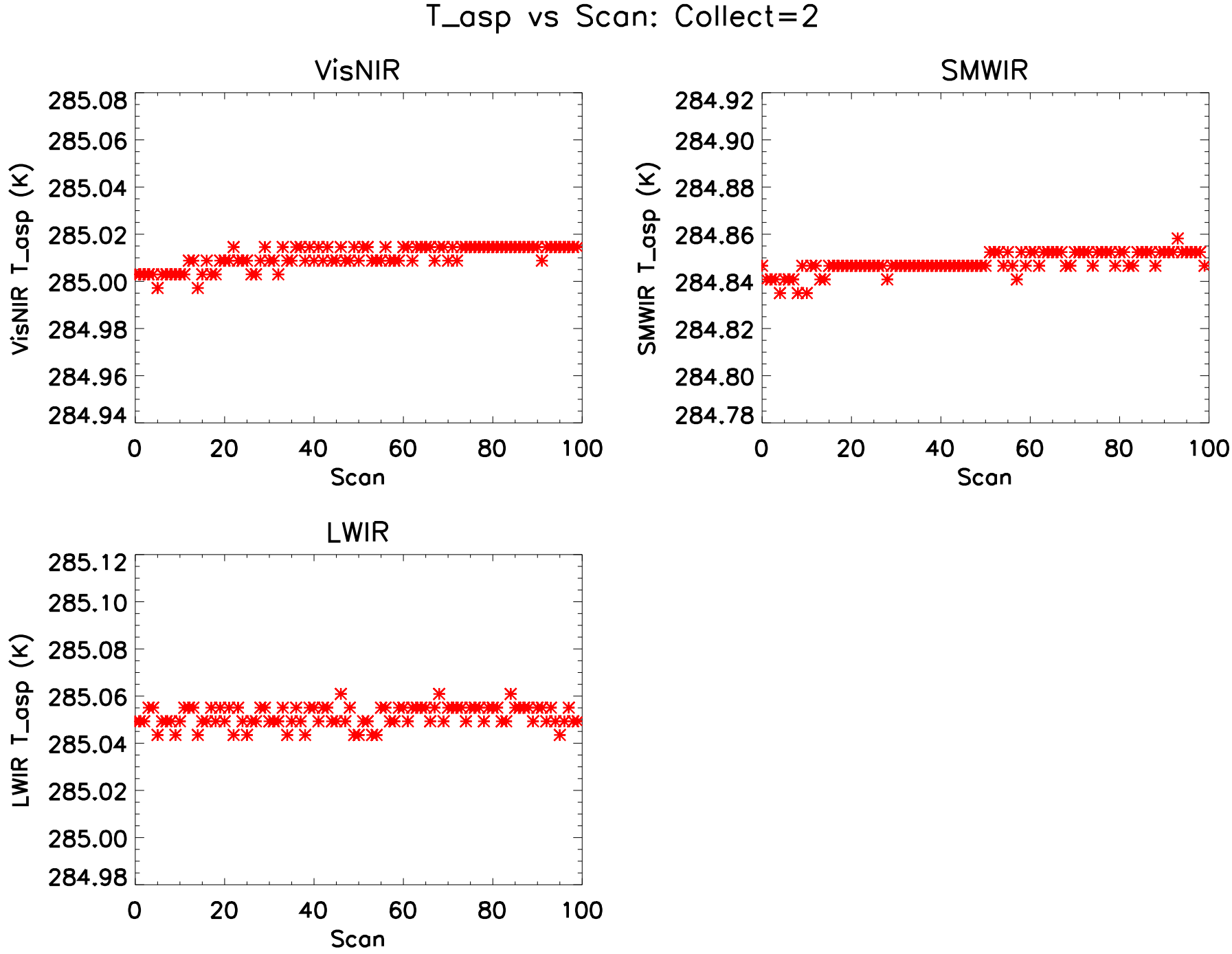

LWIR T_asp vs Time
LWIR T_asp (K)
285.6
285.4
285.2
285.0
284.8
284.6
284.4
−200
0
200
400
600
800
1000
Time (min)

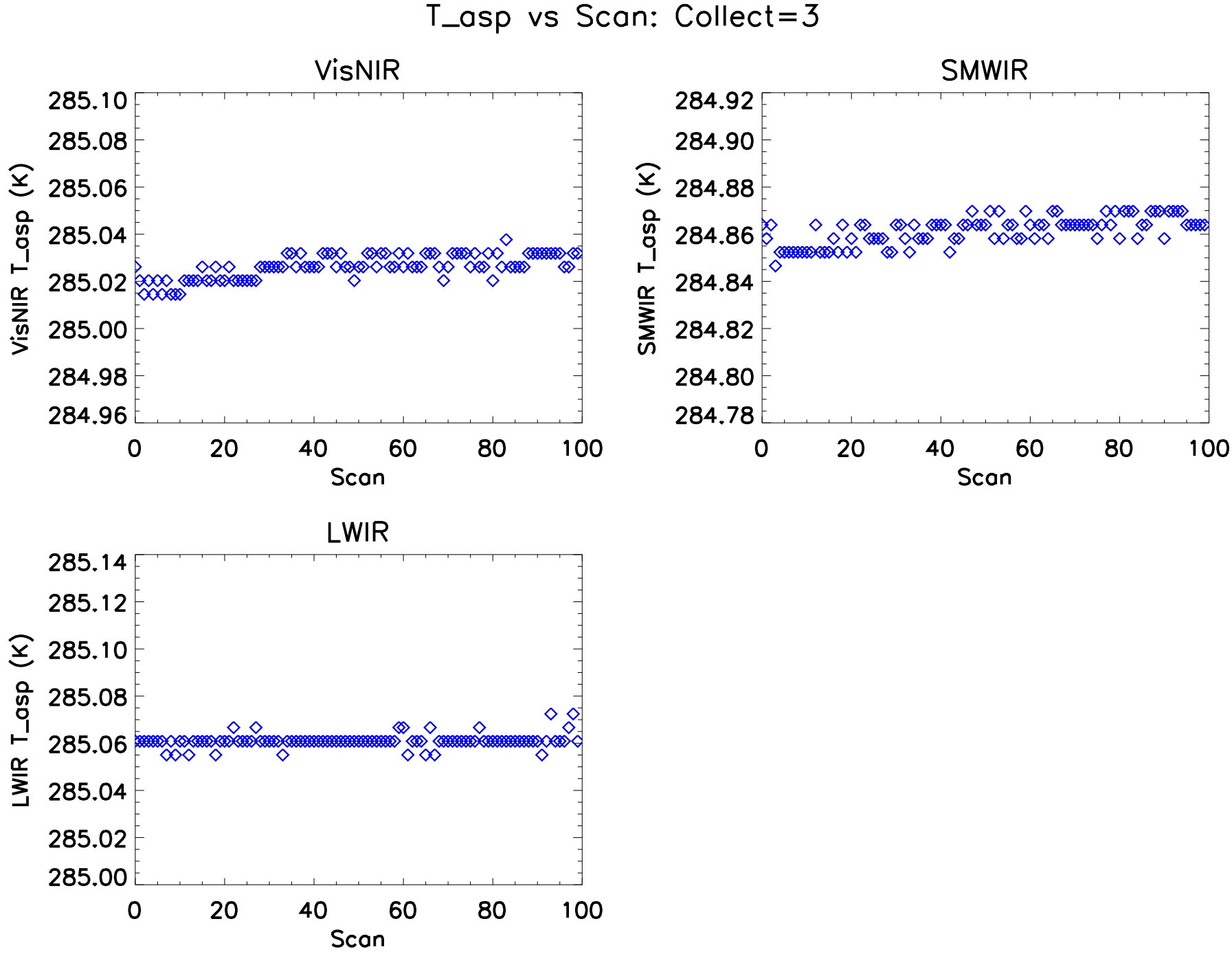

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_osp (K)
Scan

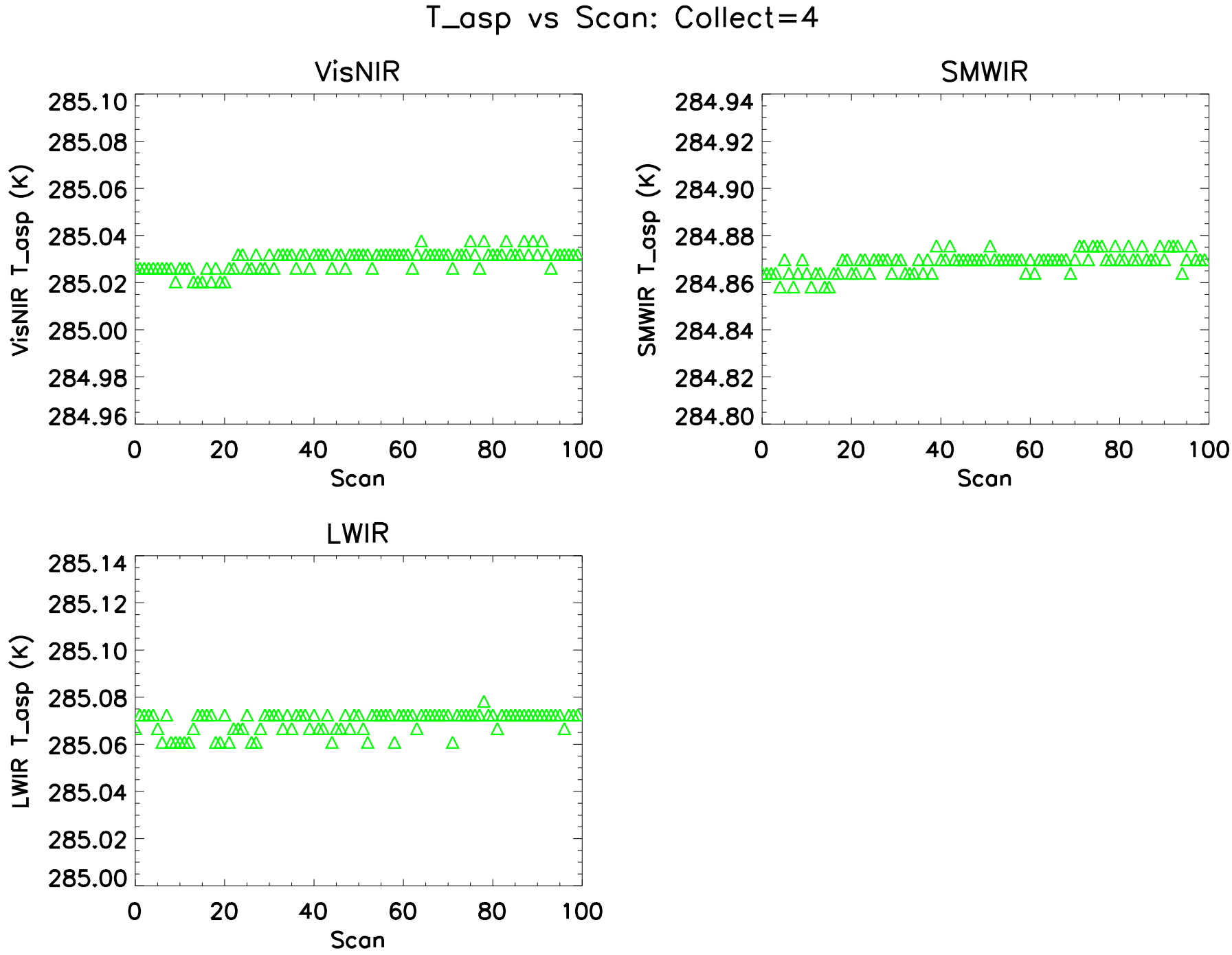
LWIR T_asp vs Scan

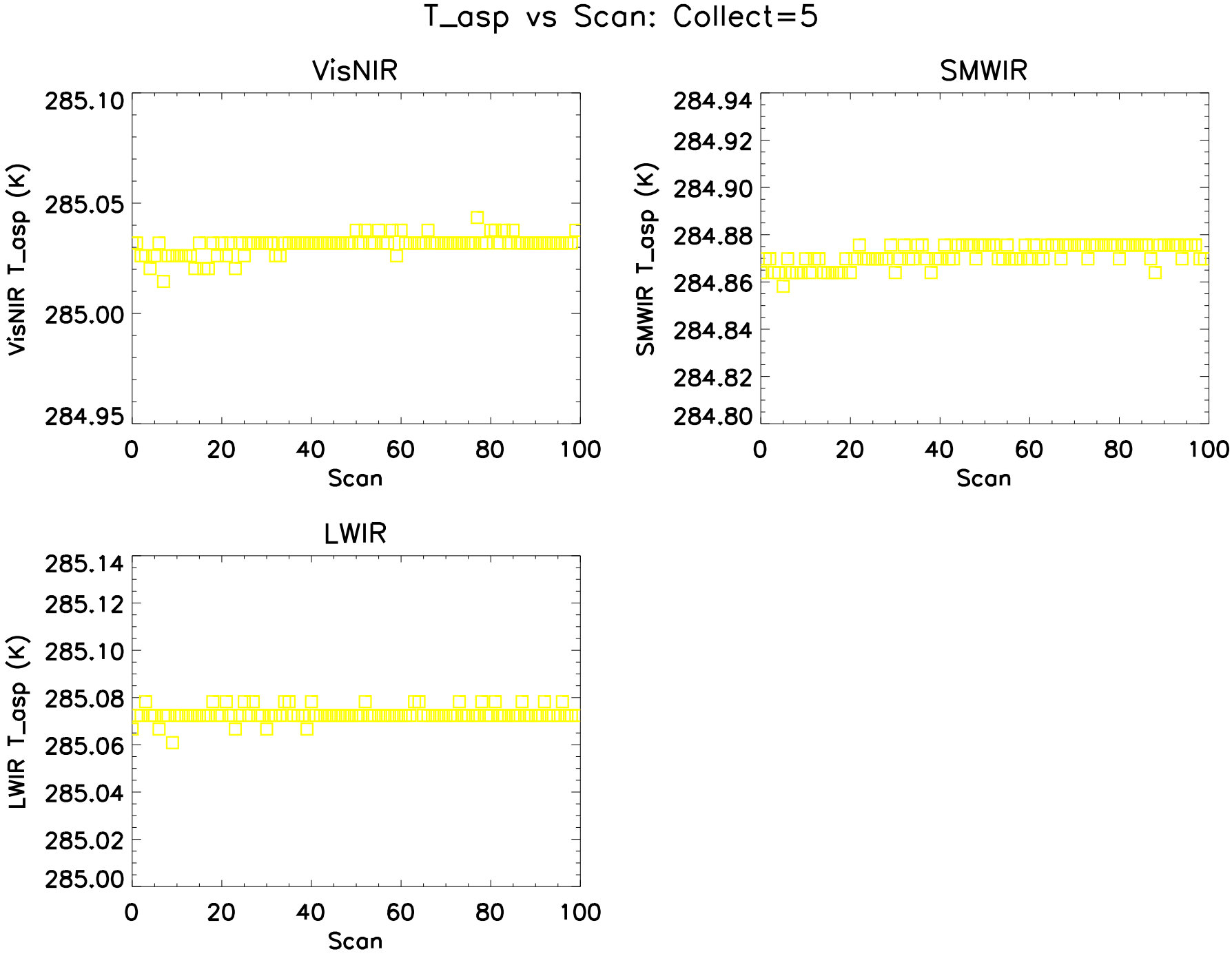


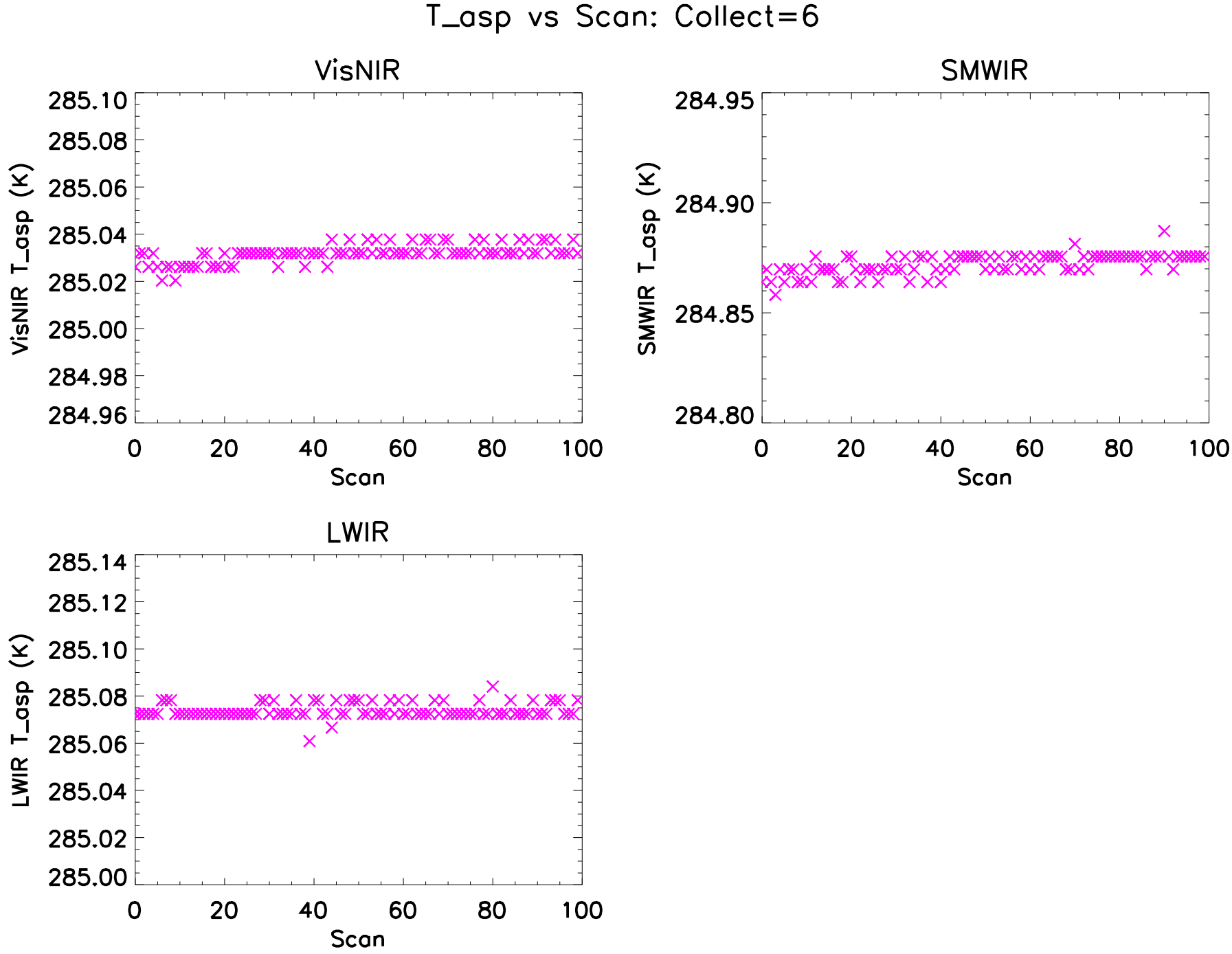

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
285.08
285.06
285.04
285.02
285.00
284.98
284.96
284.94
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.92
284.90
284.88
284.86
284.84
284.82
284.80
284.78
284.76
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
0
20
40
60
80
100
Scan

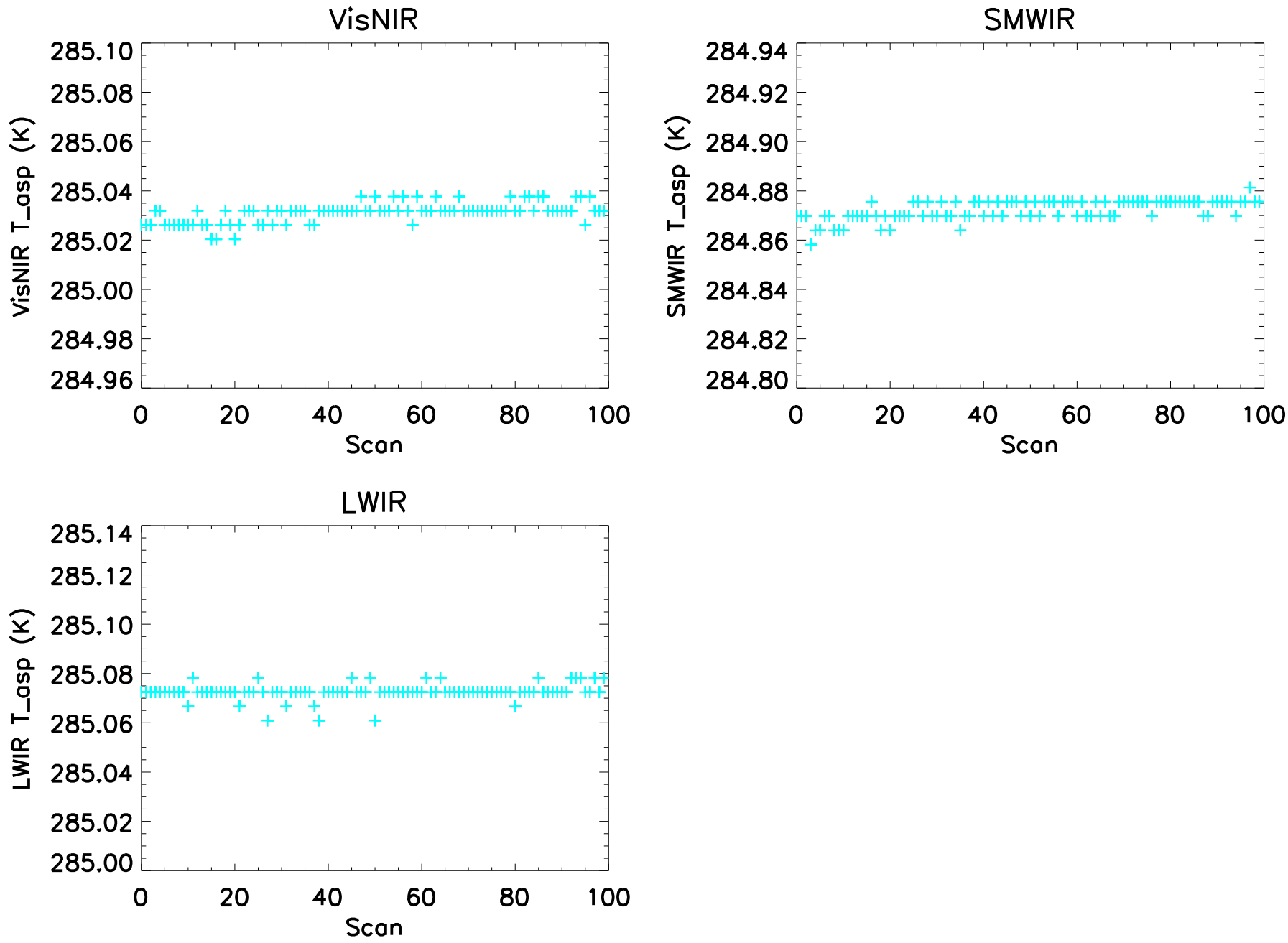

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
285.08
285.06
285.04
285.02
285.00
284.98
284.96
284.94
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.92
284.90
284.88
284.86
284.84
284.82
284.80
284.78
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.12
285.10
285.08
285.06
285.04
285.02
285.00
284.98
0
20
40
60
80
100
Scan

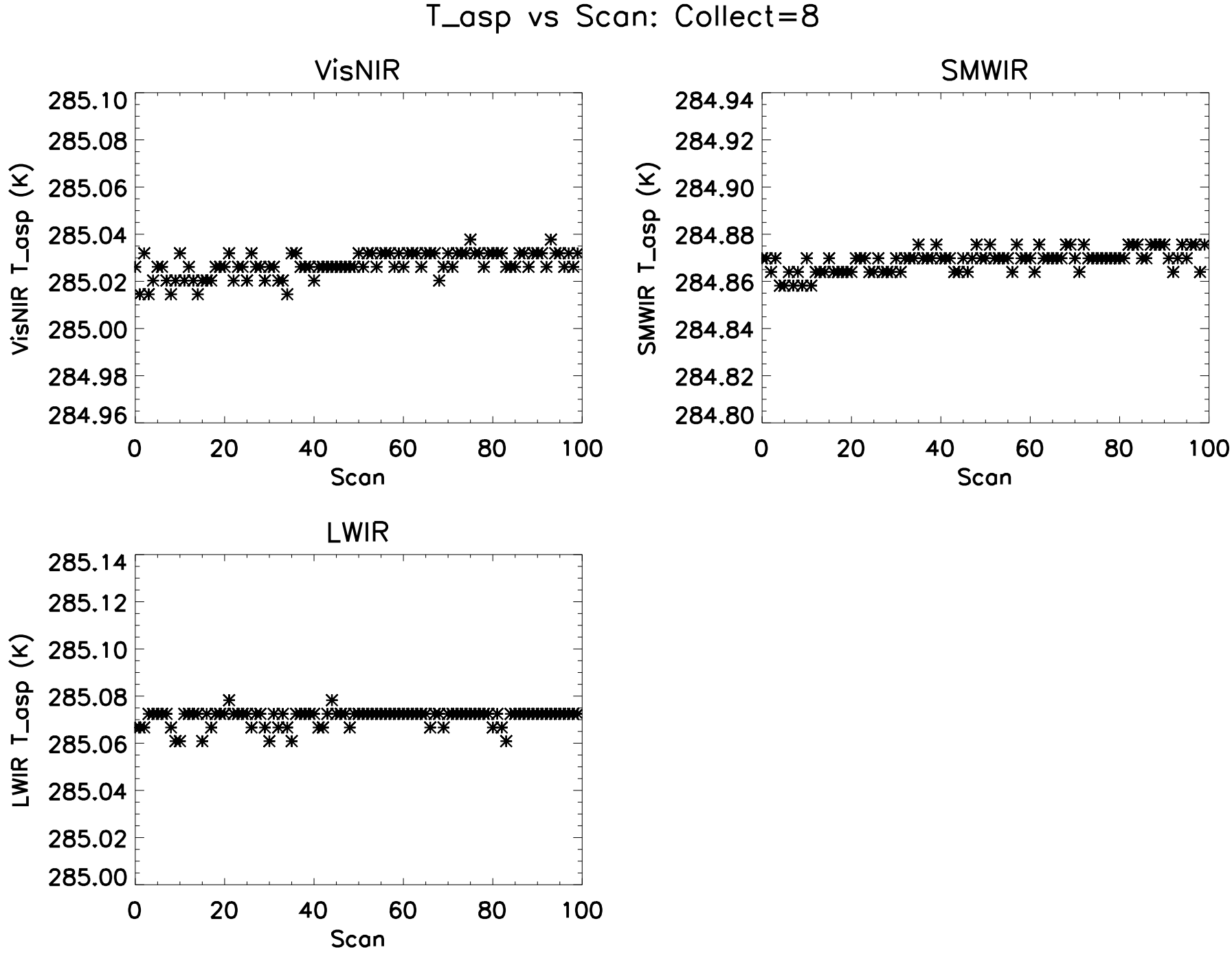

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.92
284.90
284.88
284.86
284.84
284.82
284.80
284.78
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

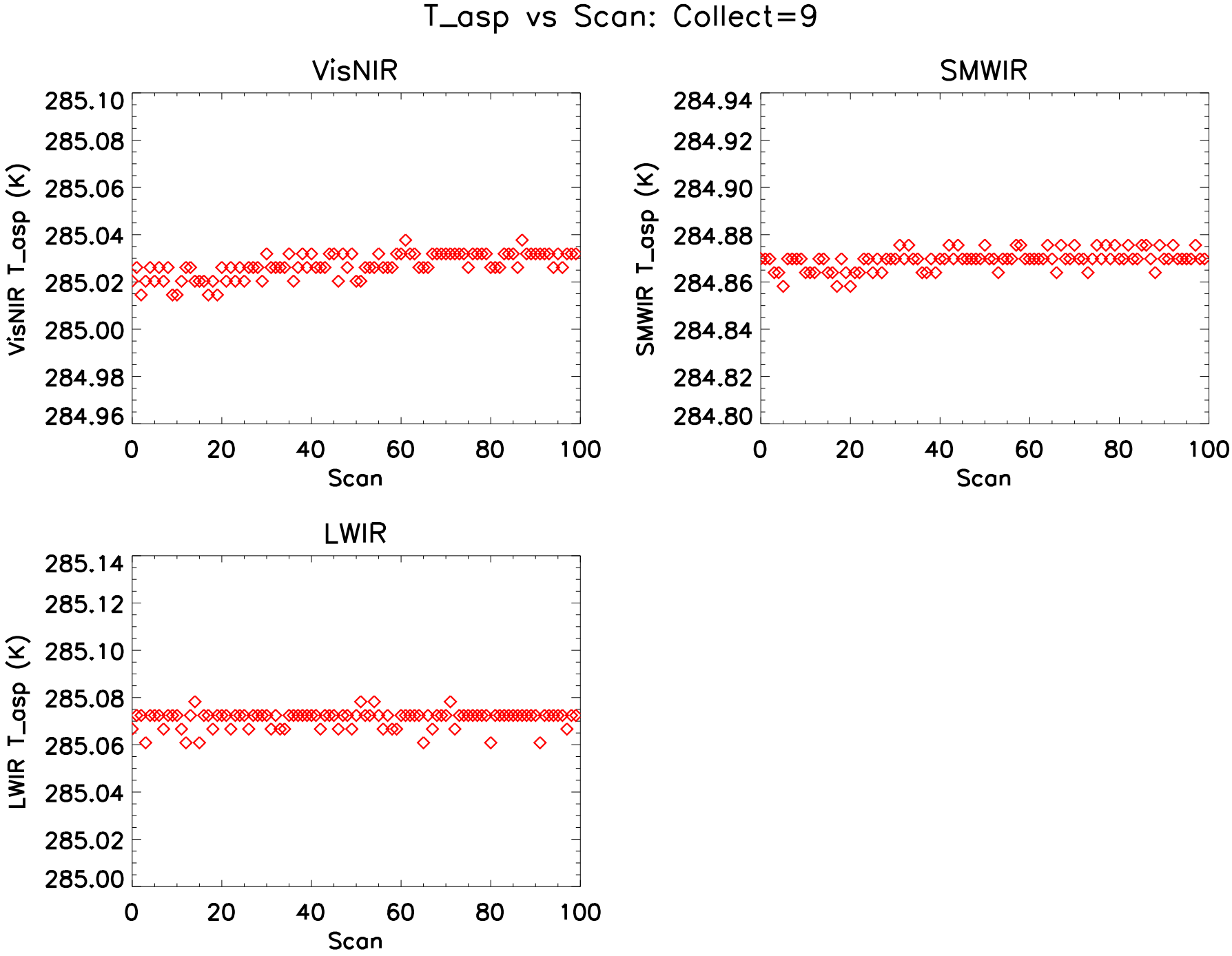

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

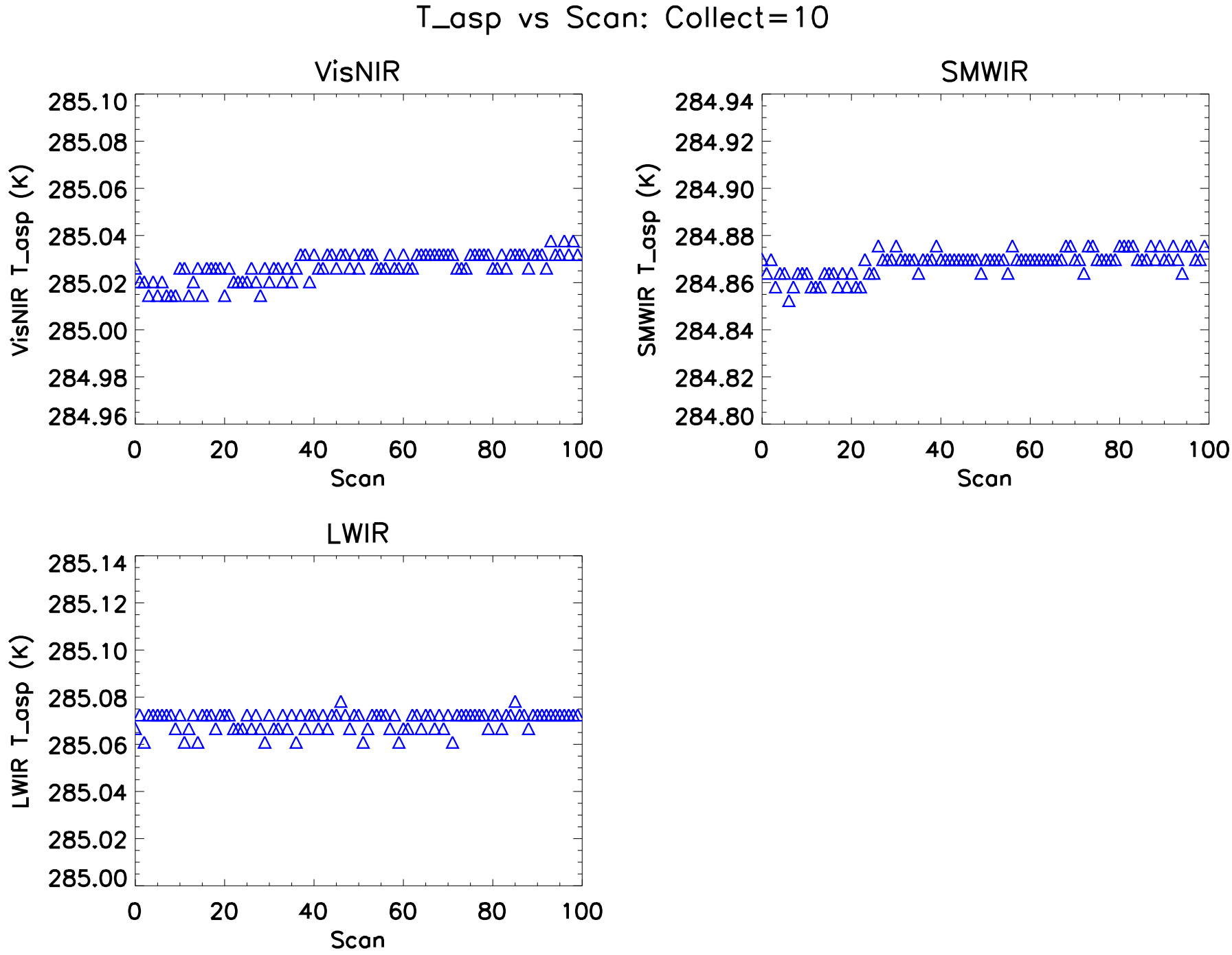

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
285.10
285.05
285.00
284.95
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

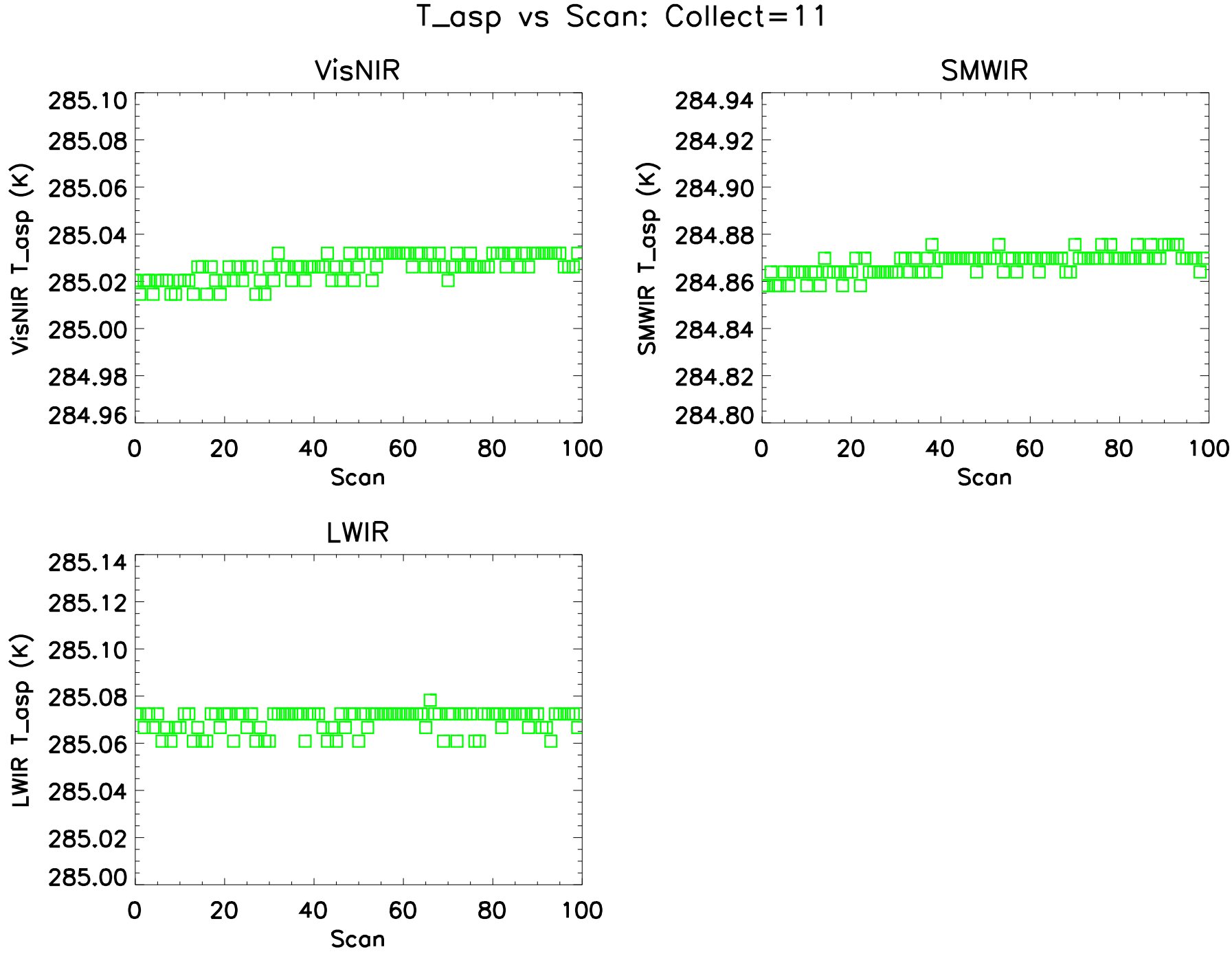

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.95
284.90
284.85
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

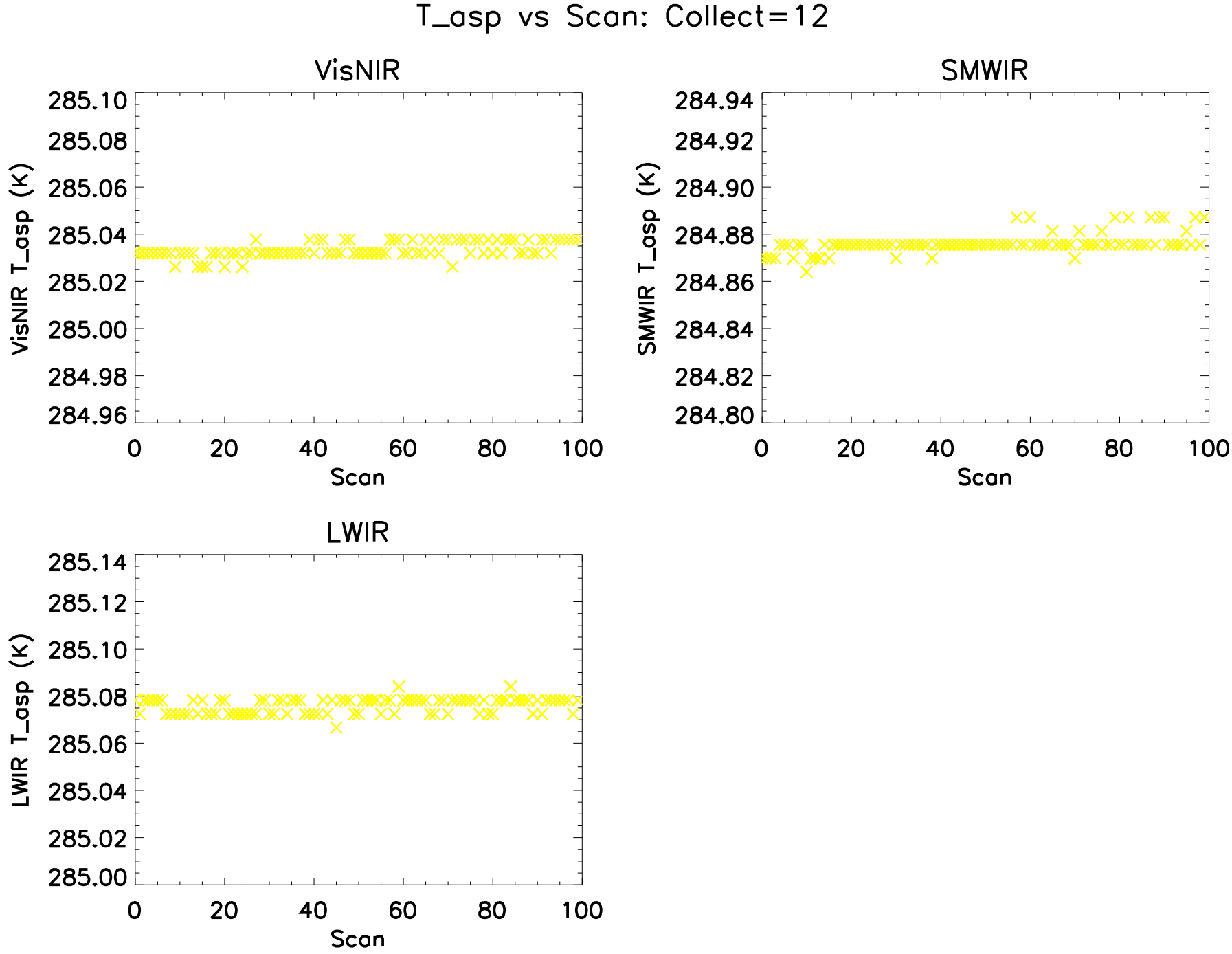

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

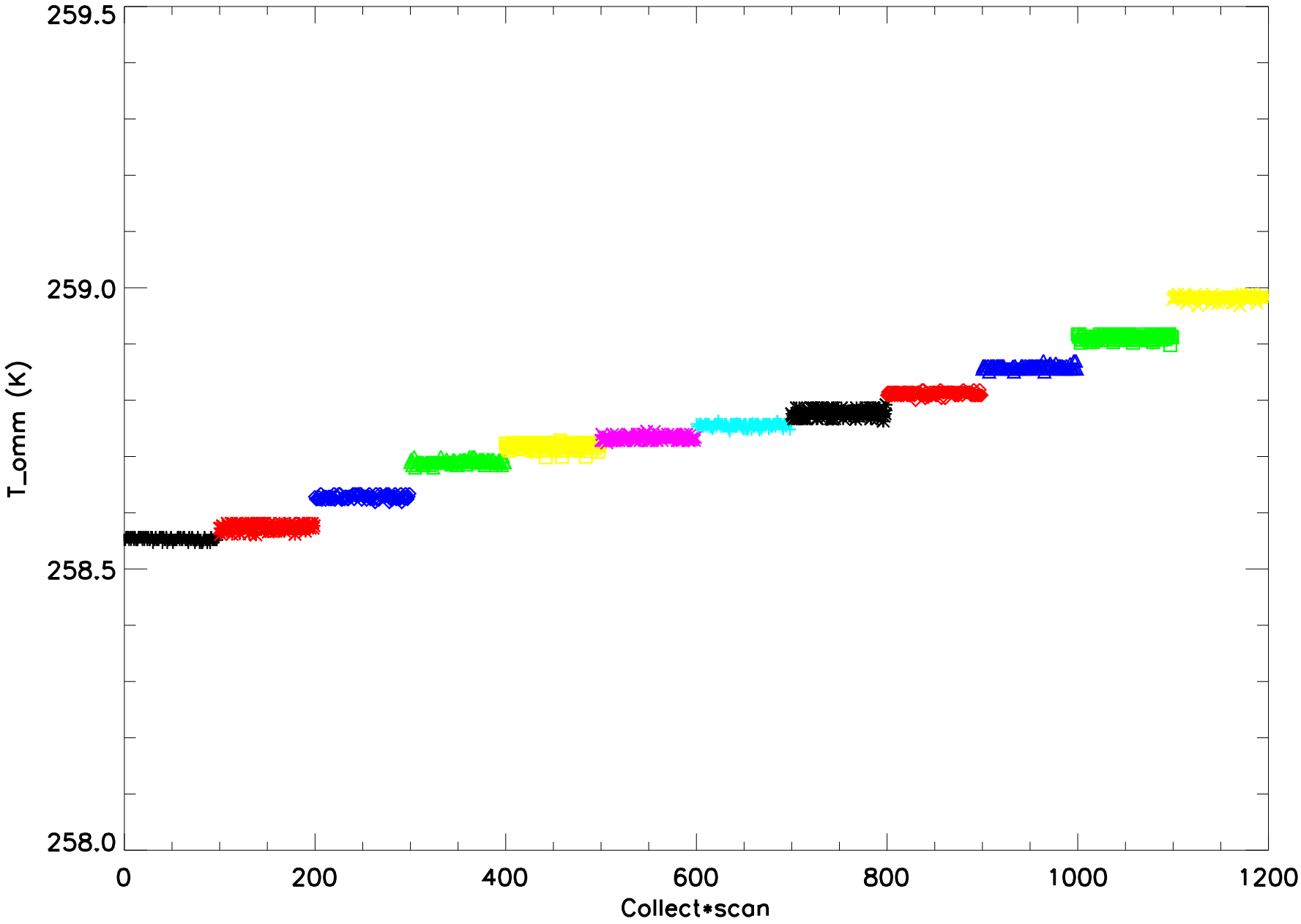

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

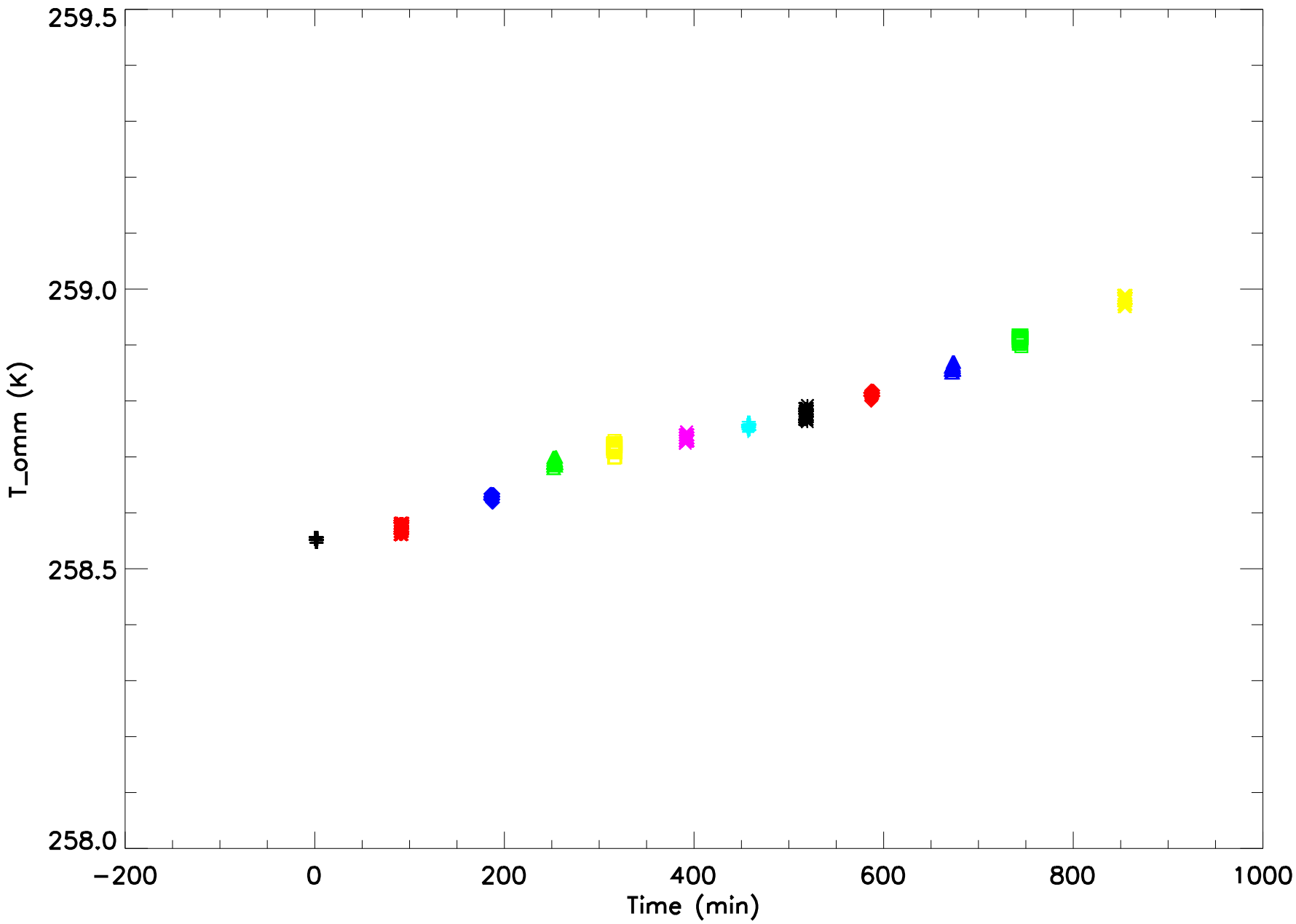

T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

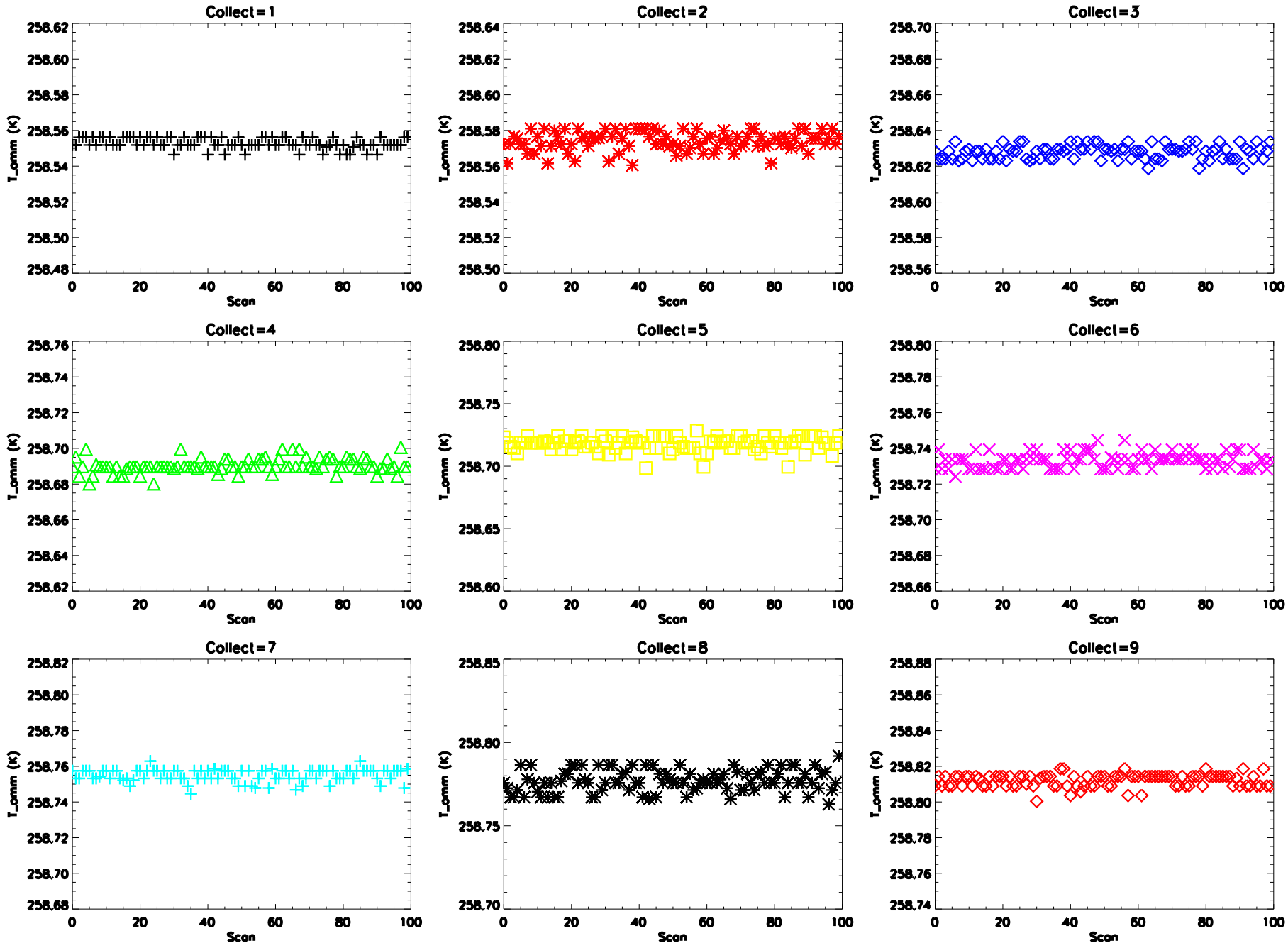

T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=12
VisNIR
VisNIR T_asp (K)
285.10
285.08
285.06
285.04
285.02
285.00
284.98
284.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.94
284.92
284.90
284.88
284.86
284.84
284.82
284.80
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
285.14
285.12
285.10
285.08
285.06
285.04
285.02
285.00
0
20
40
60
80
100
Scan

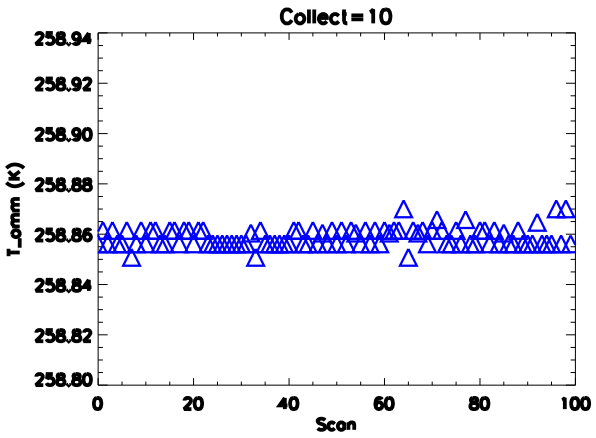

T_omm vs Scan and Collect
259.5
259.0
258.5
258.0
T_omm (K)
0
200
400
600
800
1000
1200
Collect*scan

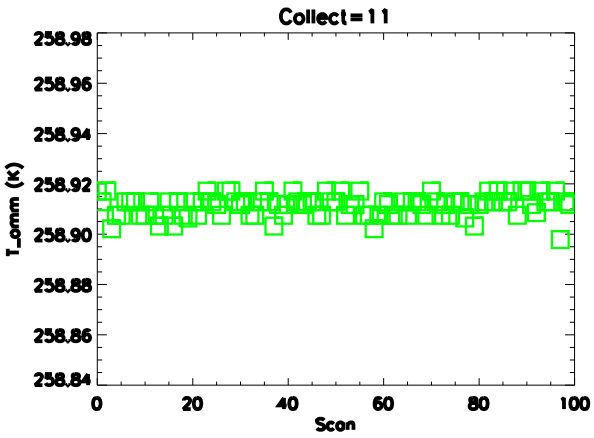

T_omm vs Time
259.5
259.0
258.5
258.0
T_omm (K)
−200
0
200
400
600
800
1000
Time (min)

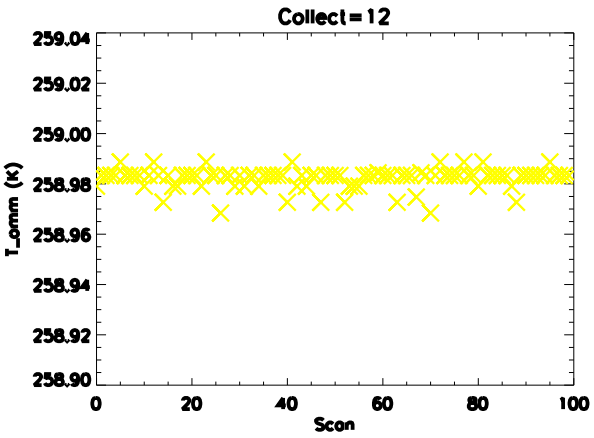
T_omm vs Scan


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)
258.94
258.92
258.90
258.88
258.86
258.84
258.82
258.80
0
20
40
60
80
100
Scan


Collect = 11
T_omm (K)
258.98
258.96
258.94
258.92
258.90
258.88
258.86
258.84
0
20
40
60
80
100
Scan


Collect = 12
T_omm (K)
259.04
259.02
259.00
258.98
258.96
258.94
258.92
258.90
0
20
40
60
80
100
Scan