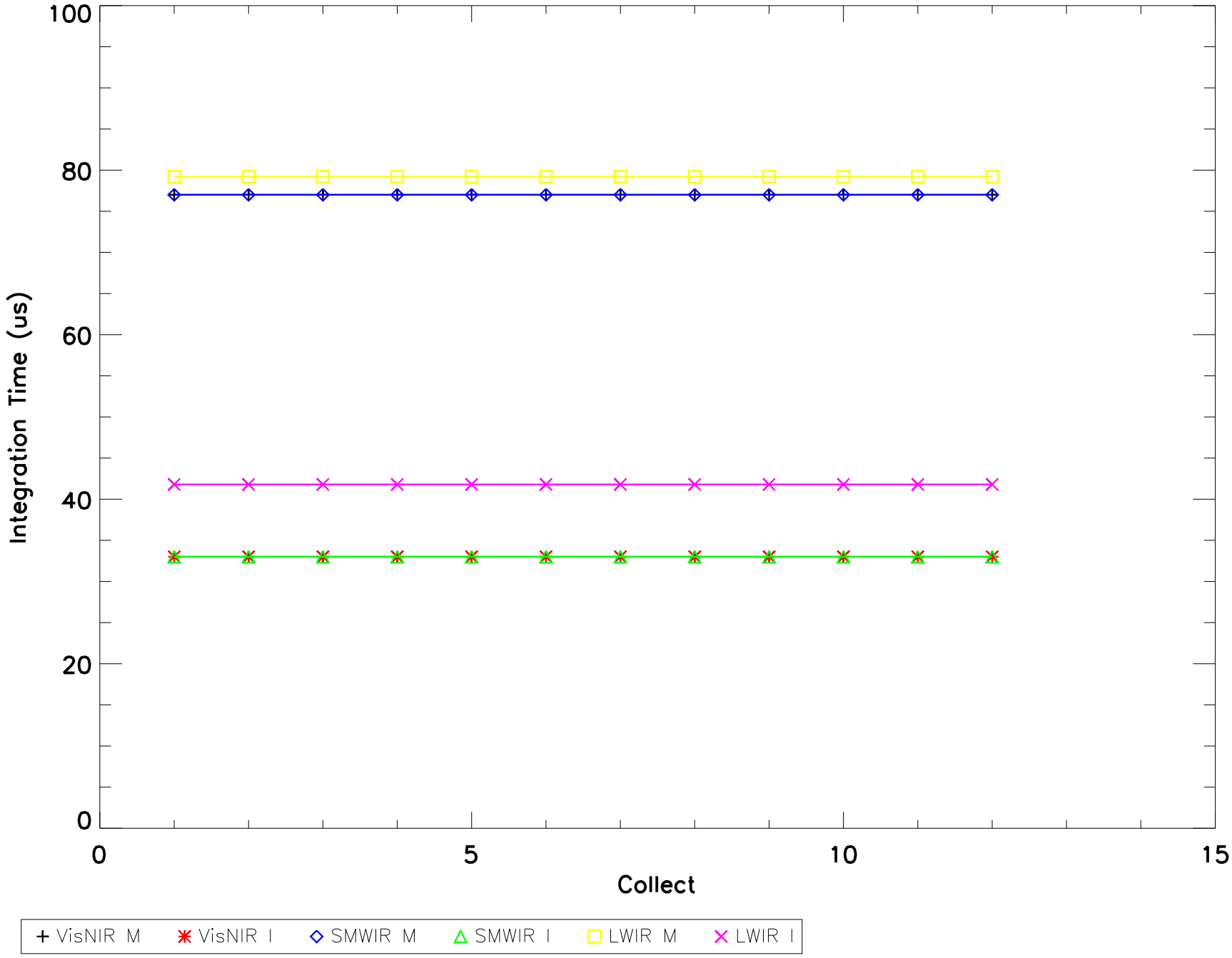
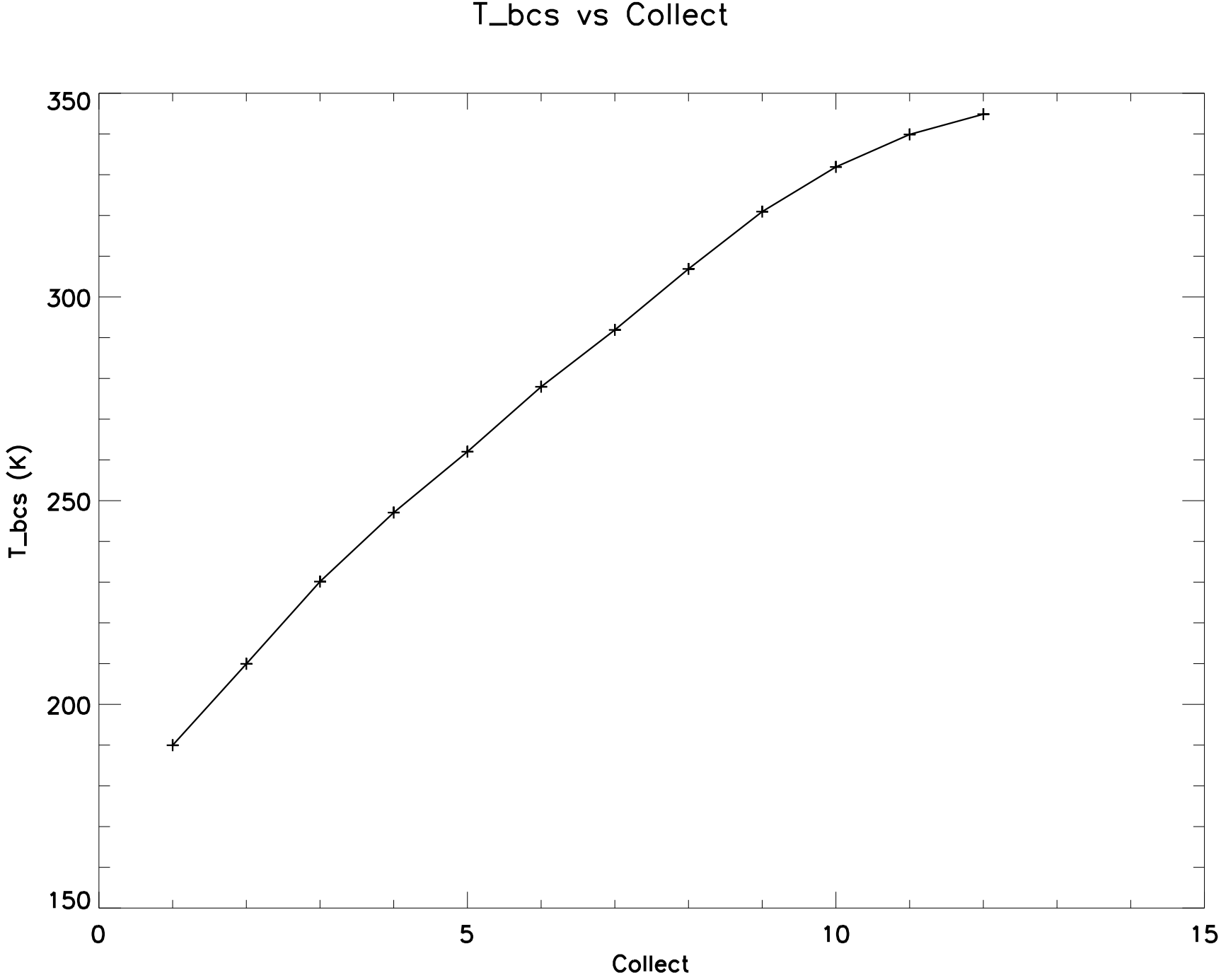
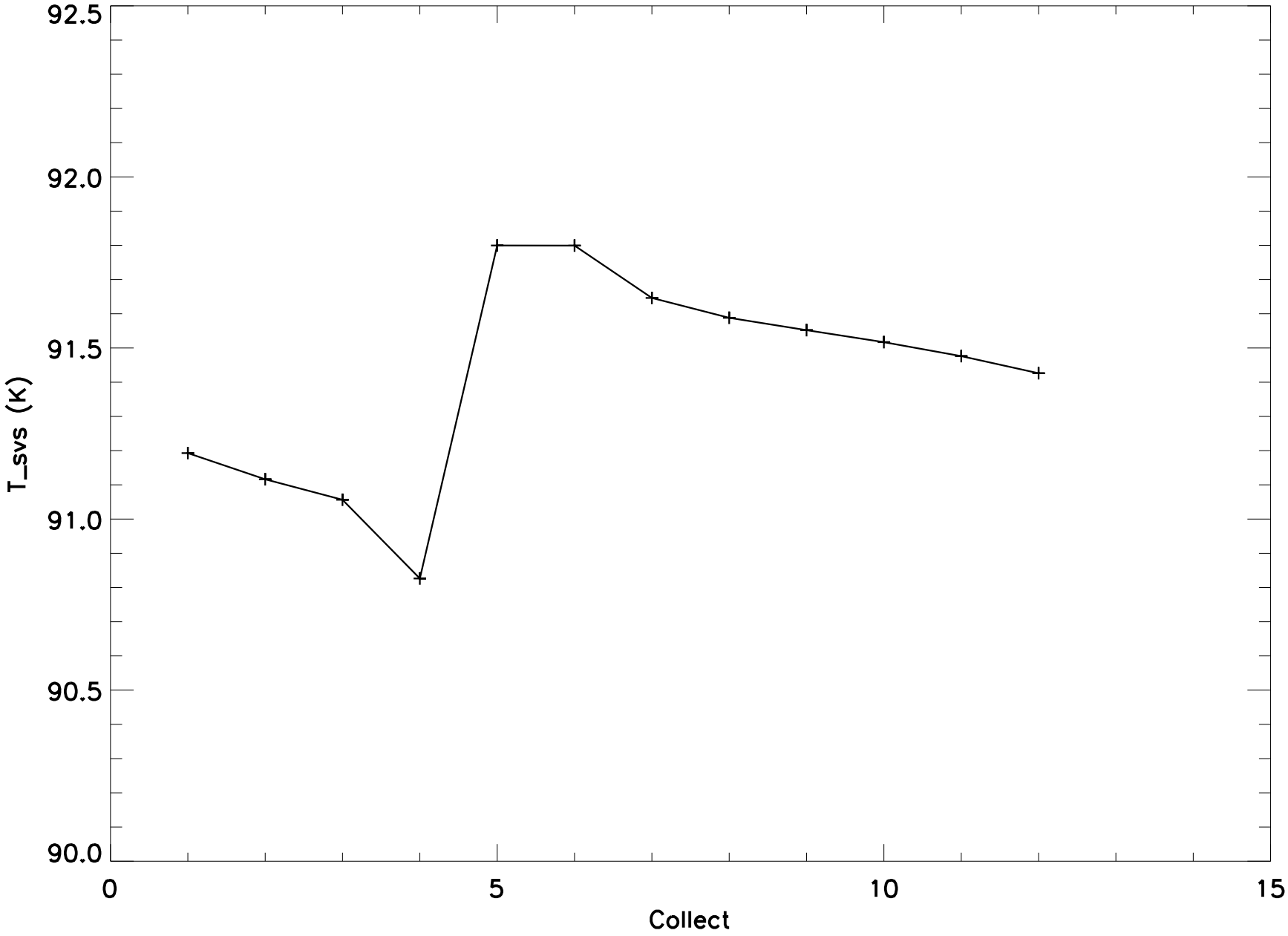
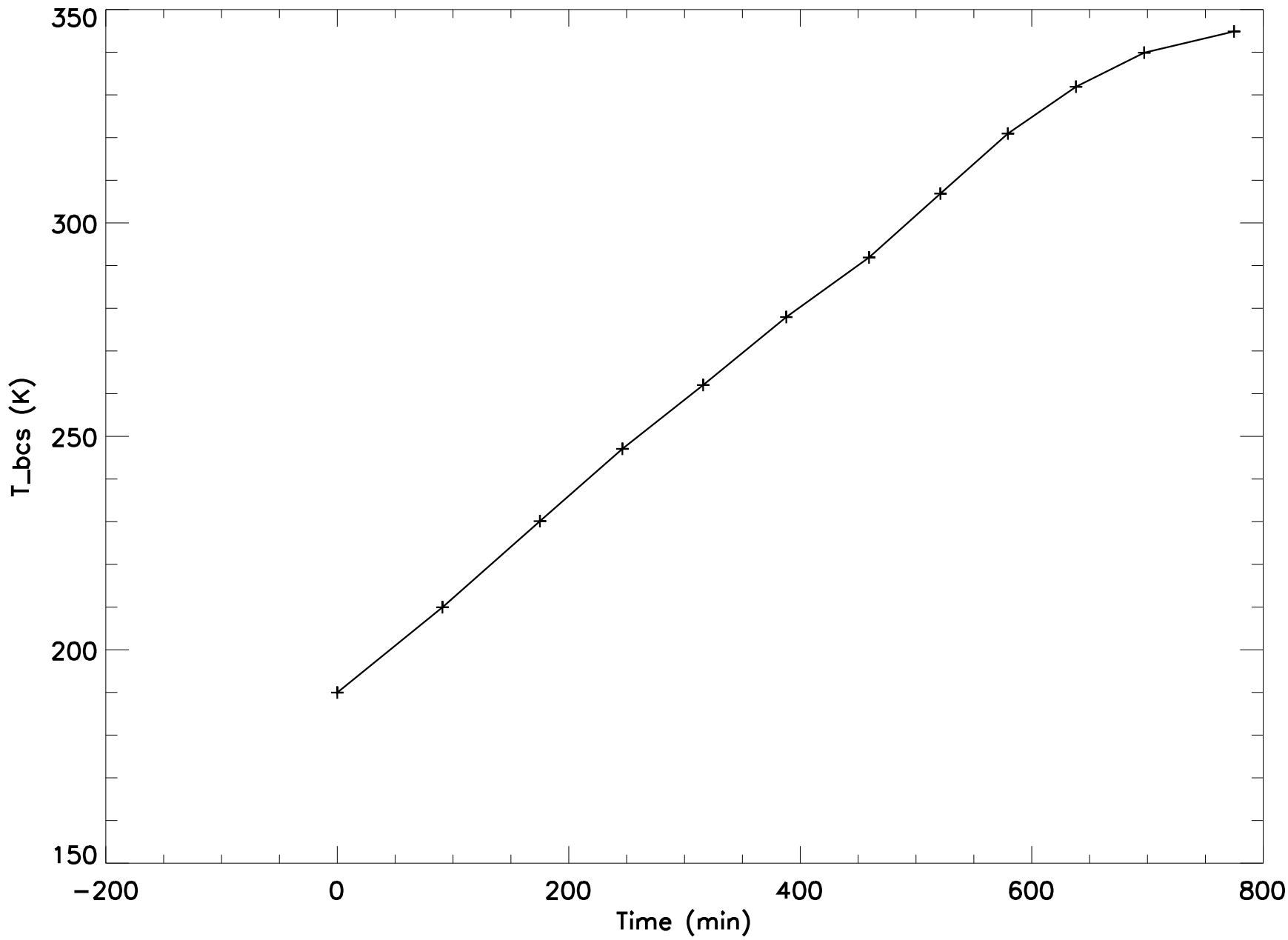
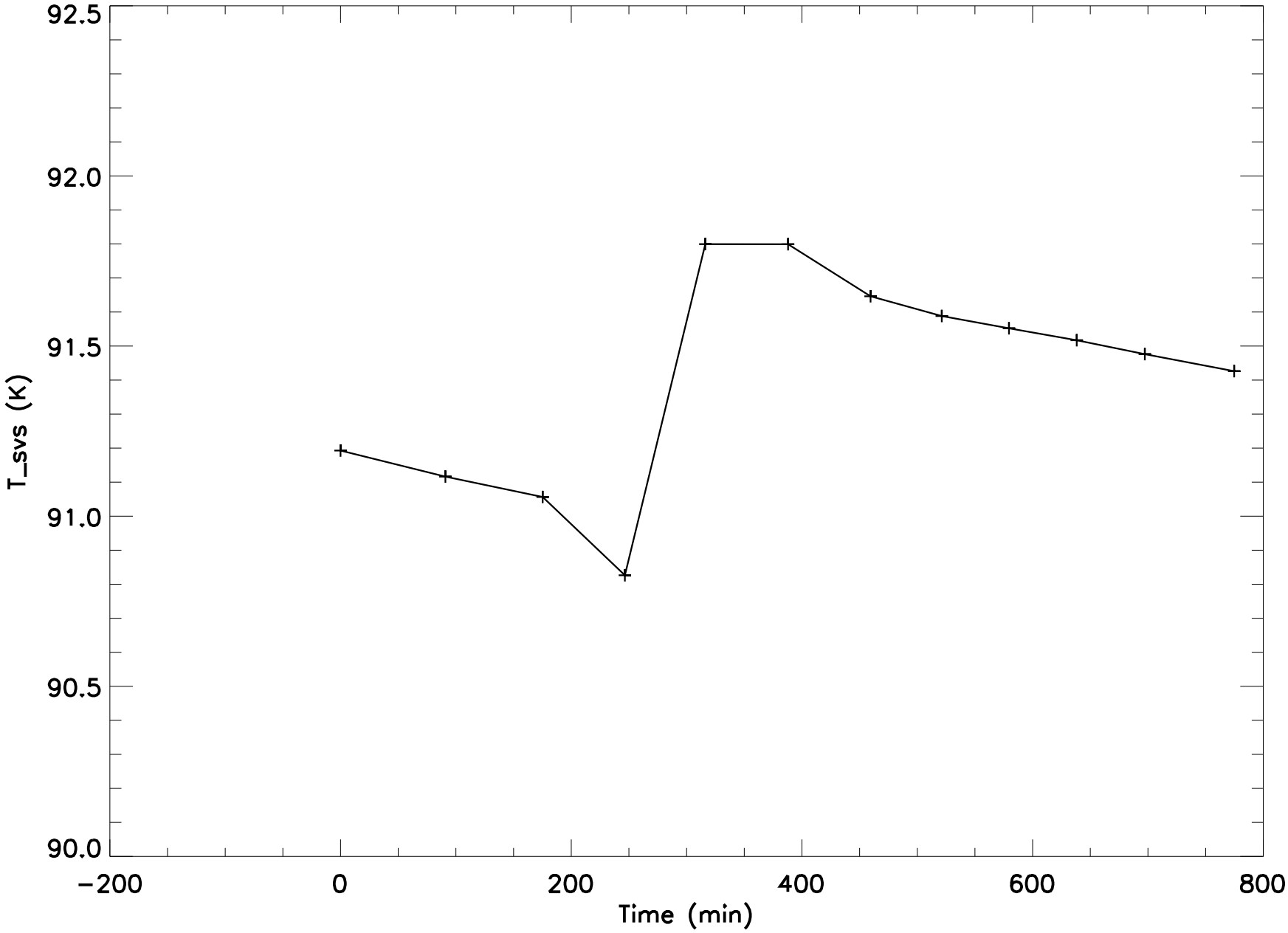
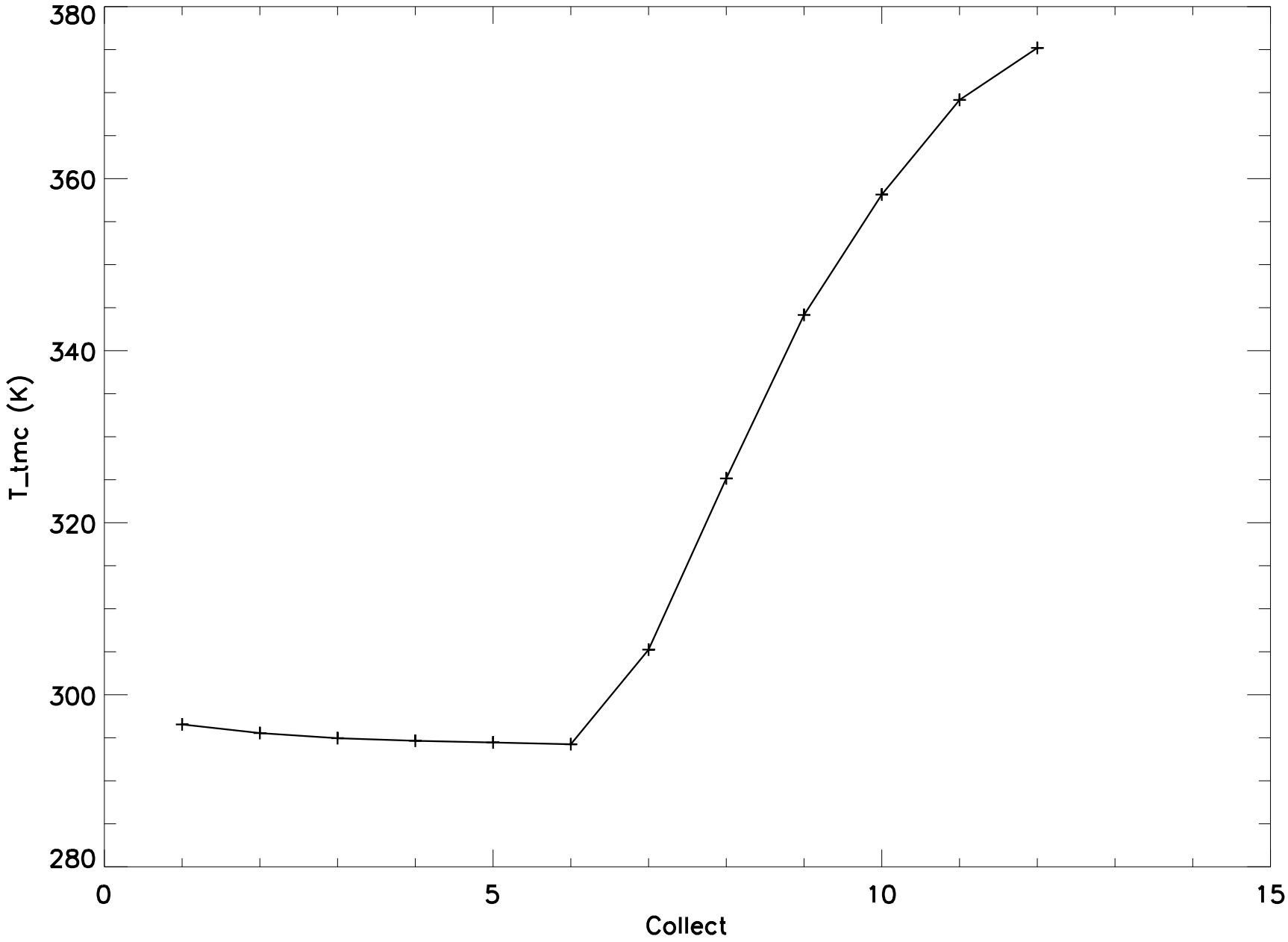

Integration Time vs Collect
Integration Time (us)
100
80
60
40
20
0
0
5
10
15
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I

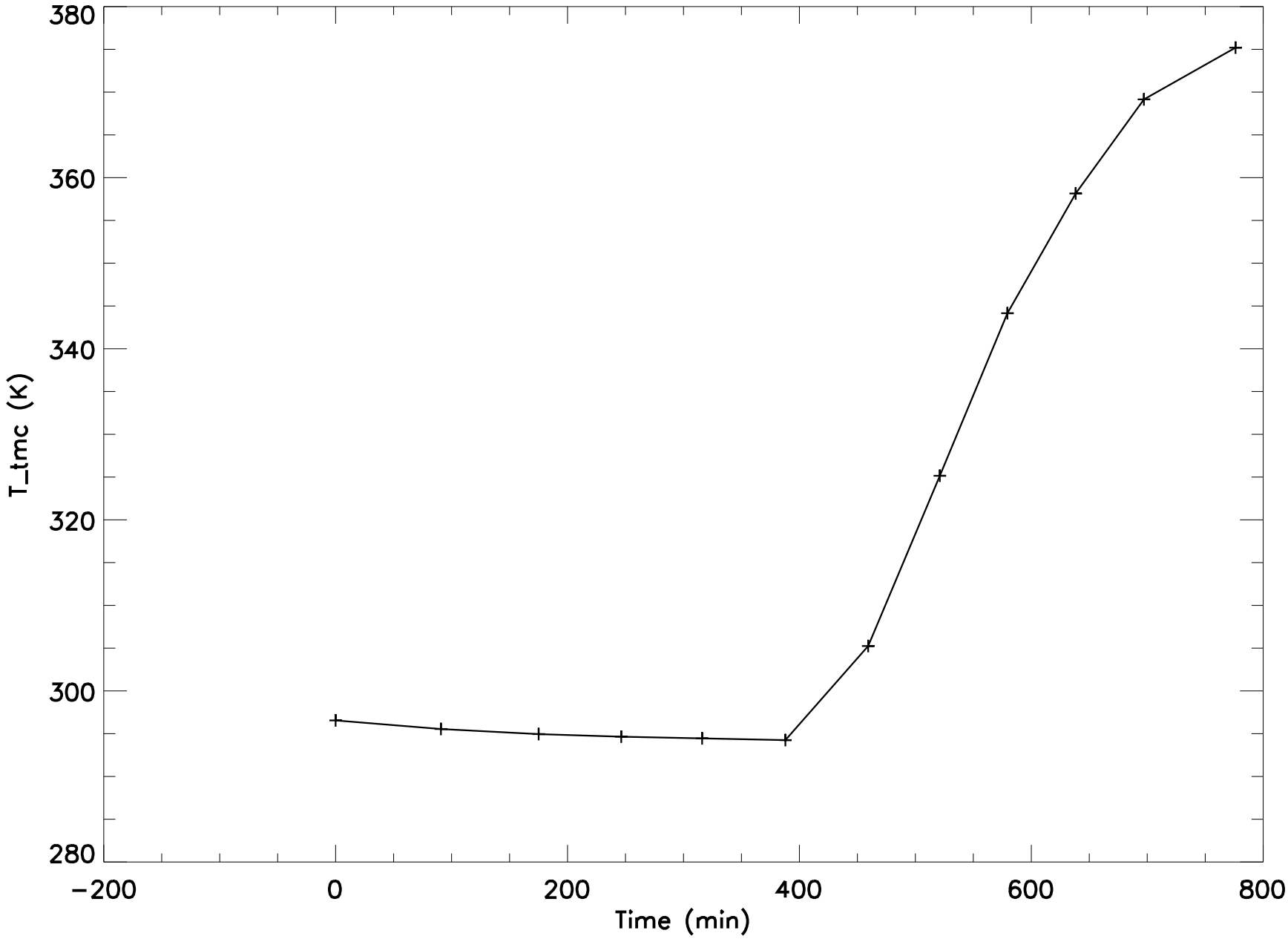

T_bcs vs Collect
350
300
250
200
150
T_bcs (K)
0
5
10
15
Collect

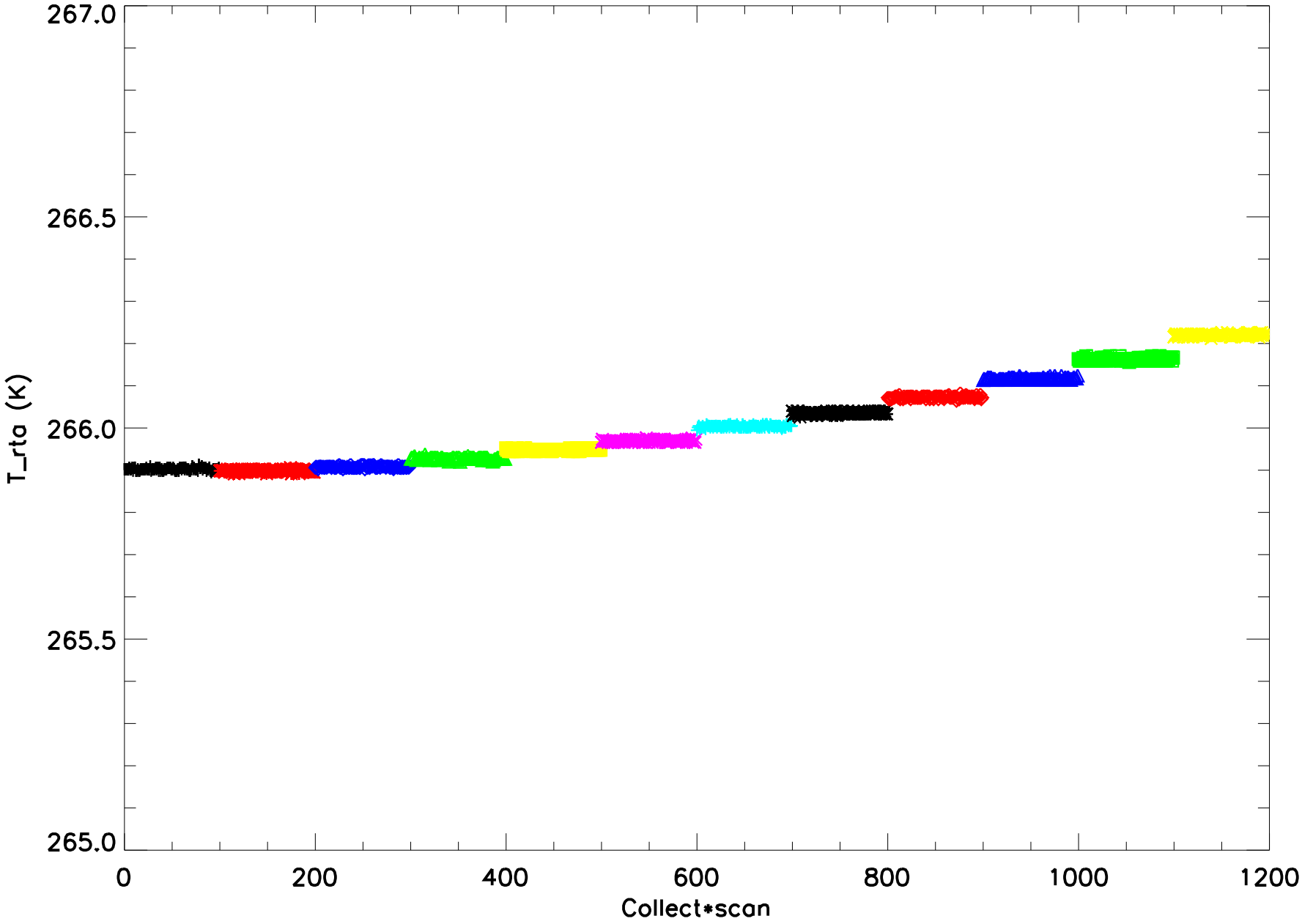

T_svs vs Collect
92.5
92.0
91.5
91.0
90.5
90.0
T_svs (K)
0
5
10
15
Collect

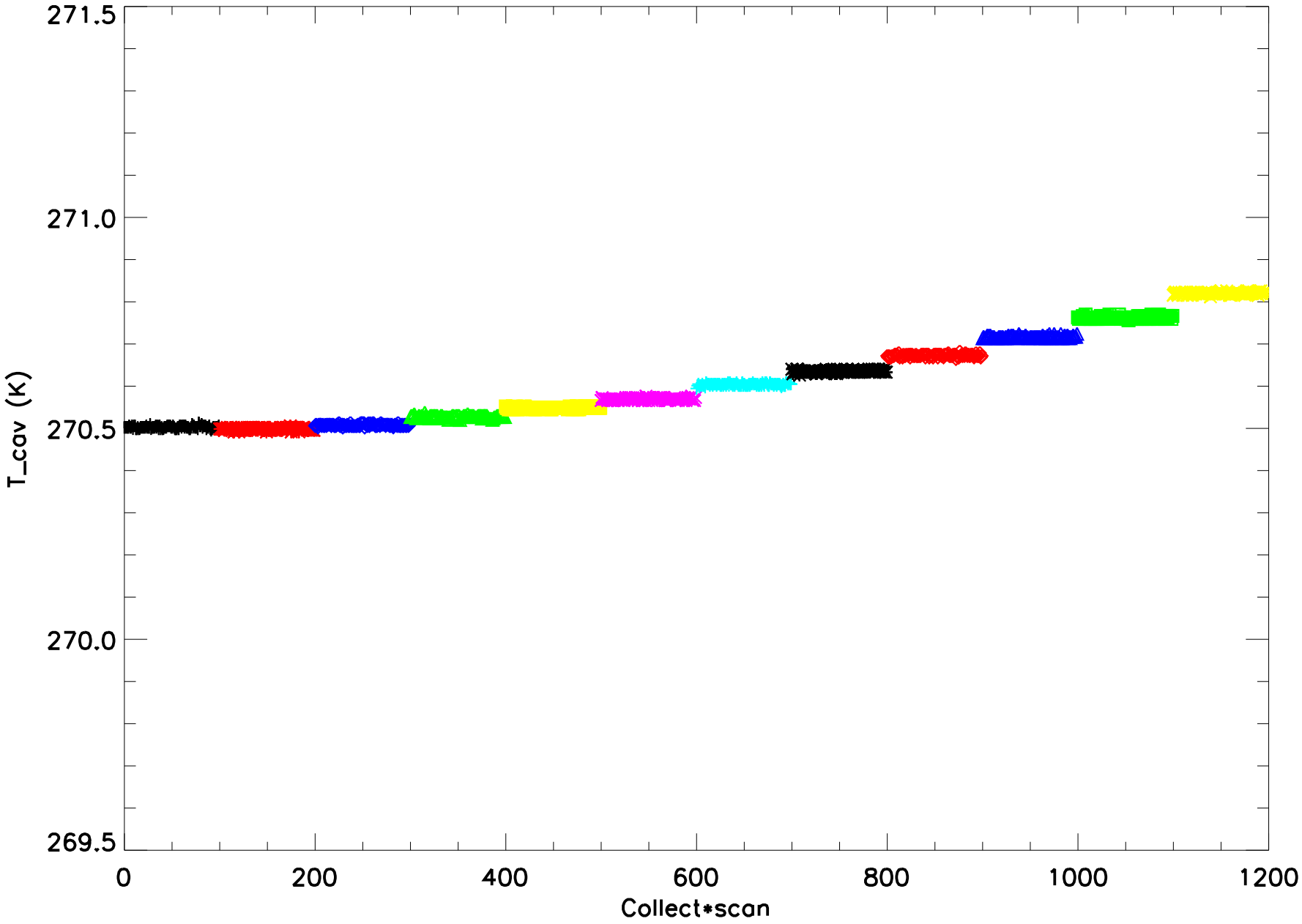

T_bcs vs Time
350
300
250
200
150
T_bcs (K)
−200
0
200
400
600
800
Time (min)

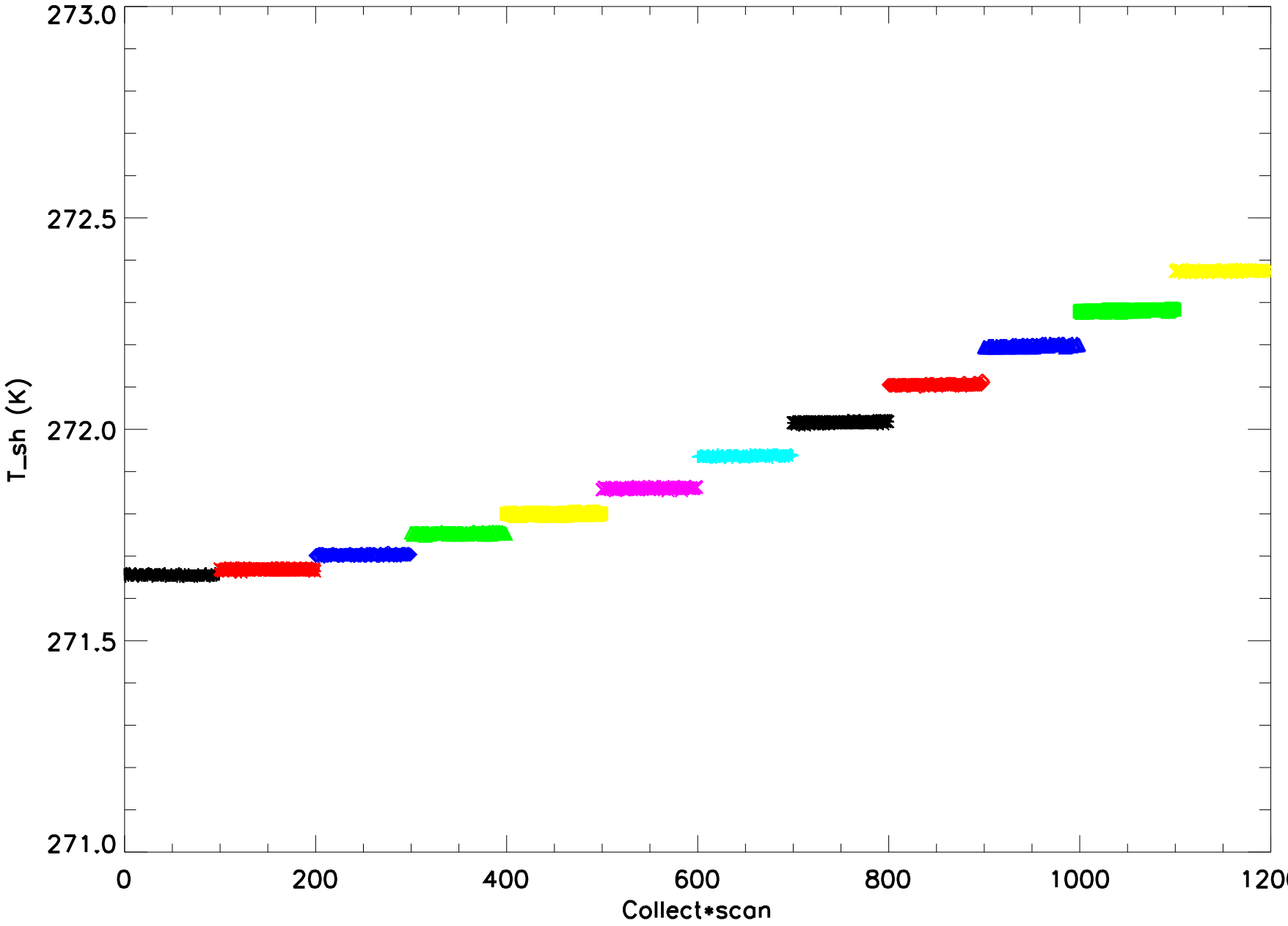

T_svs vs Time
92.5
92.0
91.5
91.0
90.5
90.0
T_svs (K)
−200
0
200
400
600
800
Time (min)

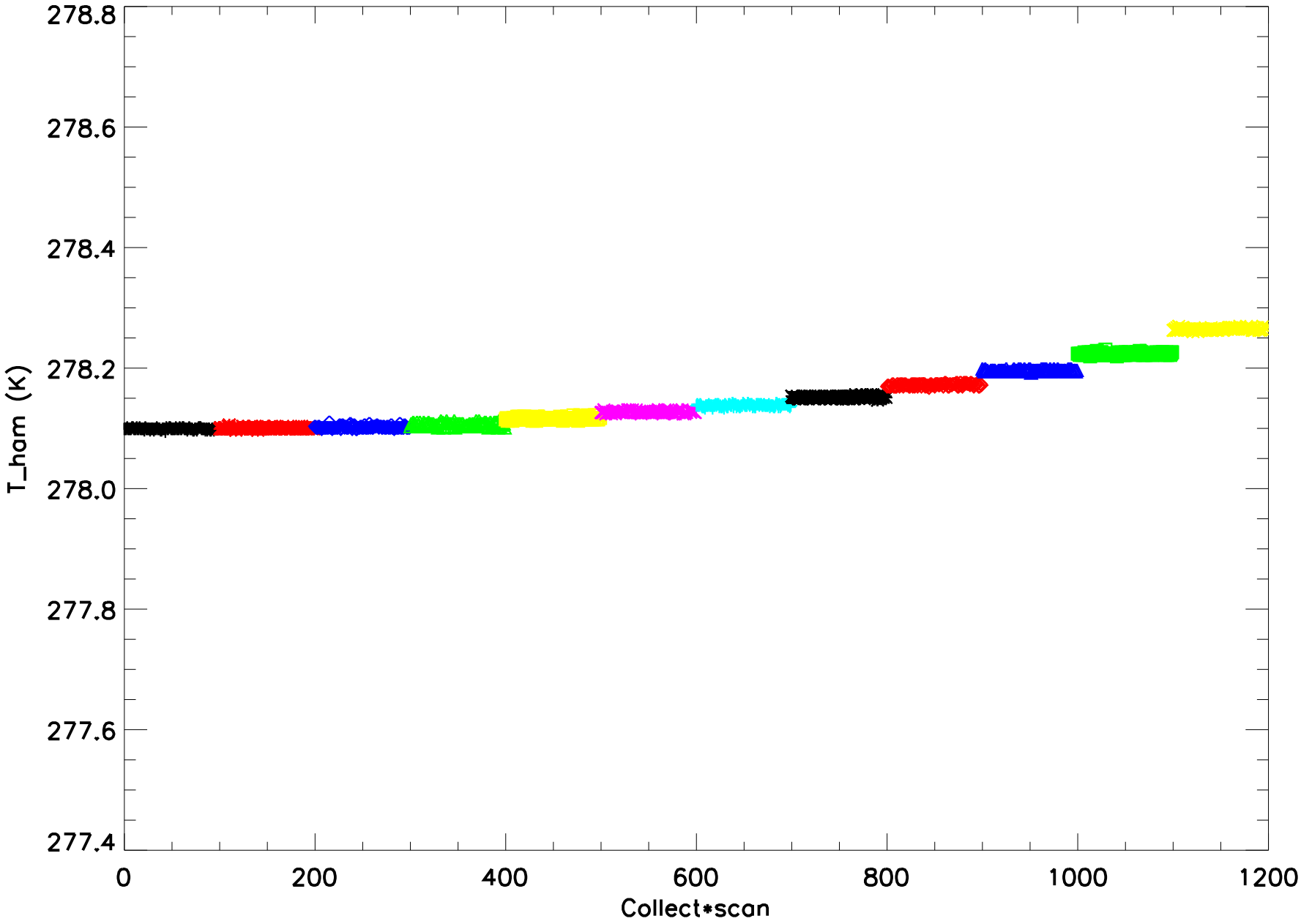

T_tmc vs Collect
380
360
340
320
300
280
T_tmc (K)
0
5
10
15
Collect

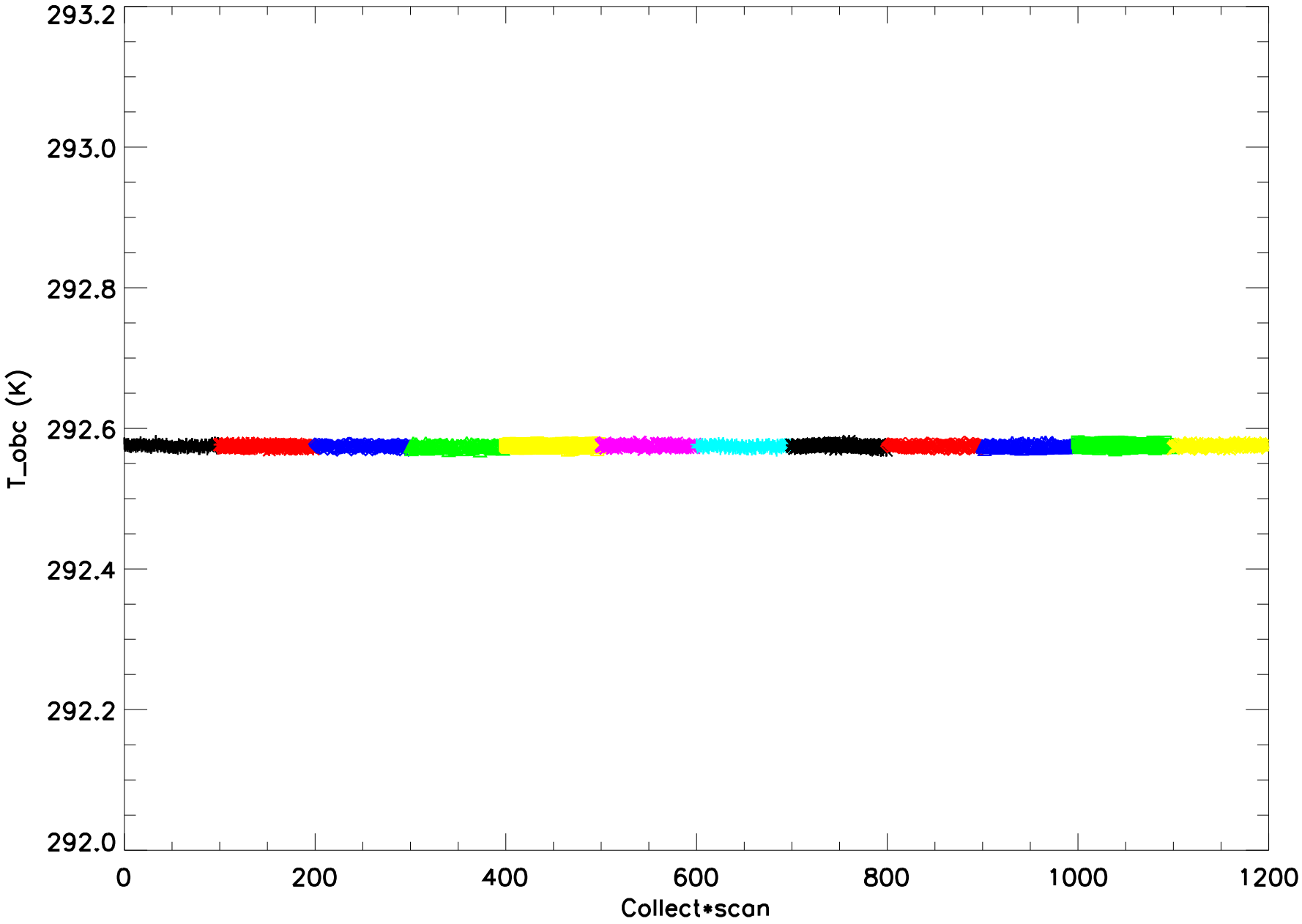

T_tmc vs Time
T_tmc (K)
380
360
340
320
300
280
−200
0
200
400
600
800
Time (min)

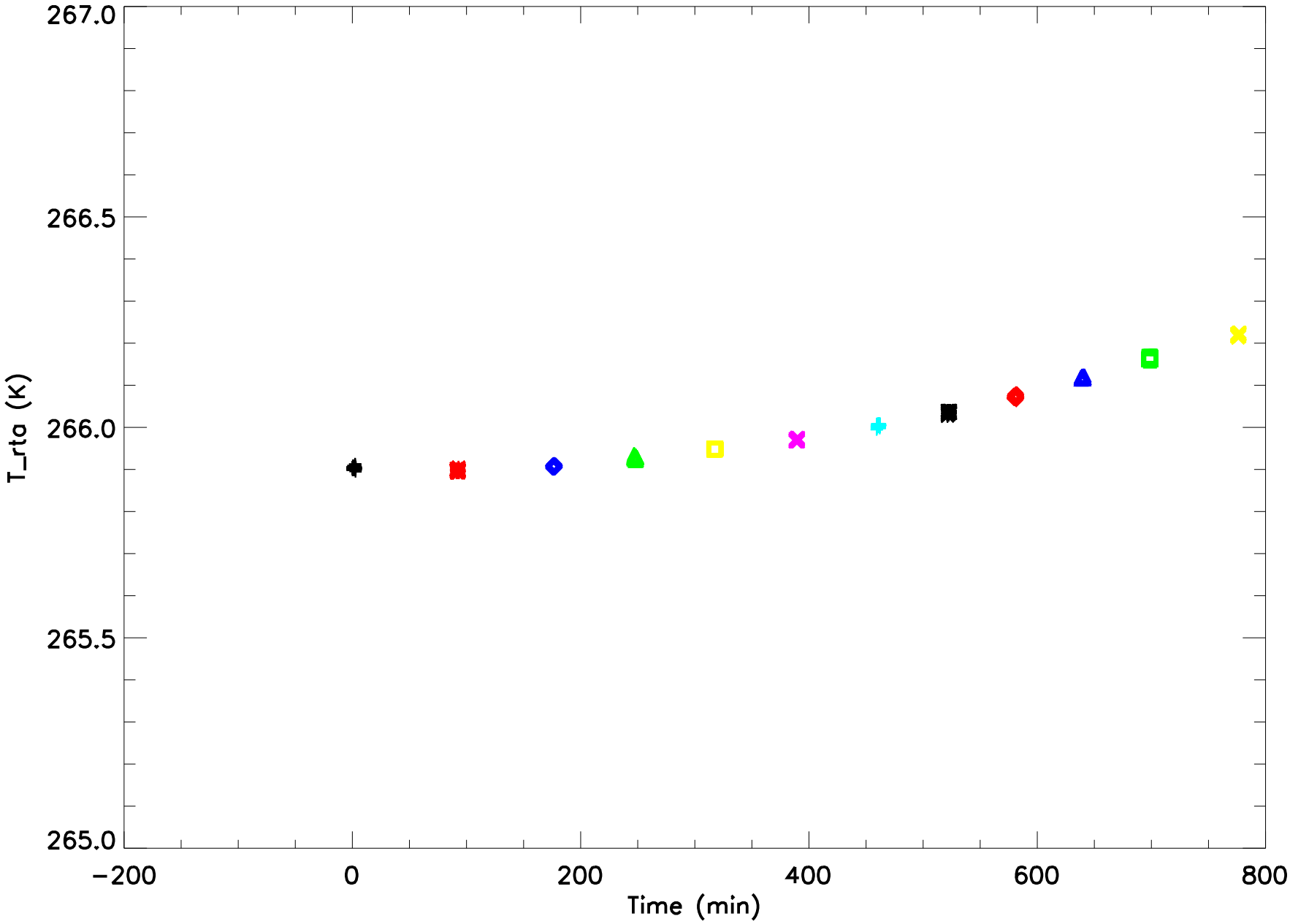

T_rta vs Scan and Collect
267.0
266.5
266.0
265.5
265.0
T_rta (K)
0
200
400
600
800
1000
1200
Collect*scan

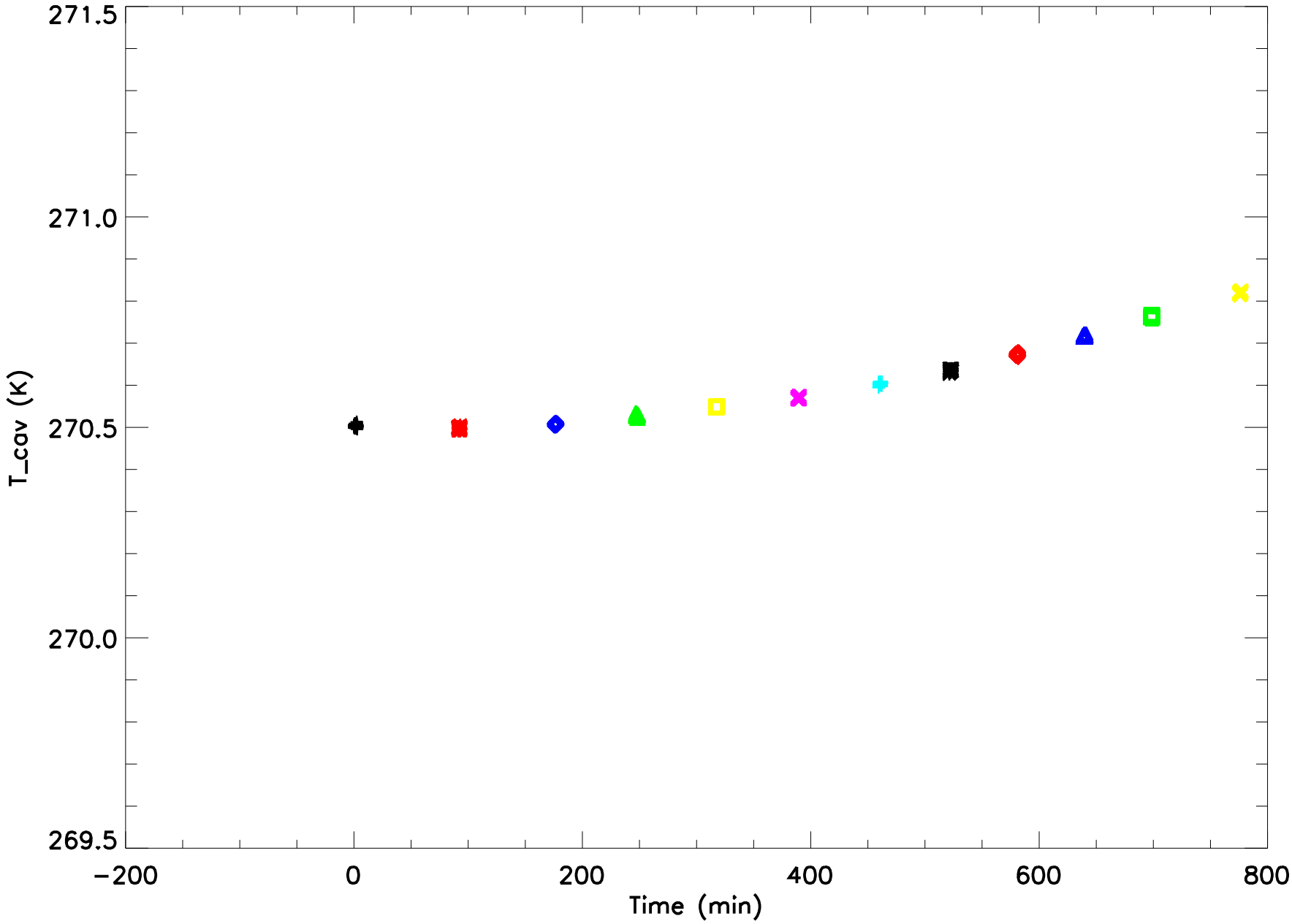

T_cav vs Scan and Collect
271.5
271.0
270.5
270.0
269.5
T_cav (K)
0
200
400
600
800
1000
1200
Collect*scan

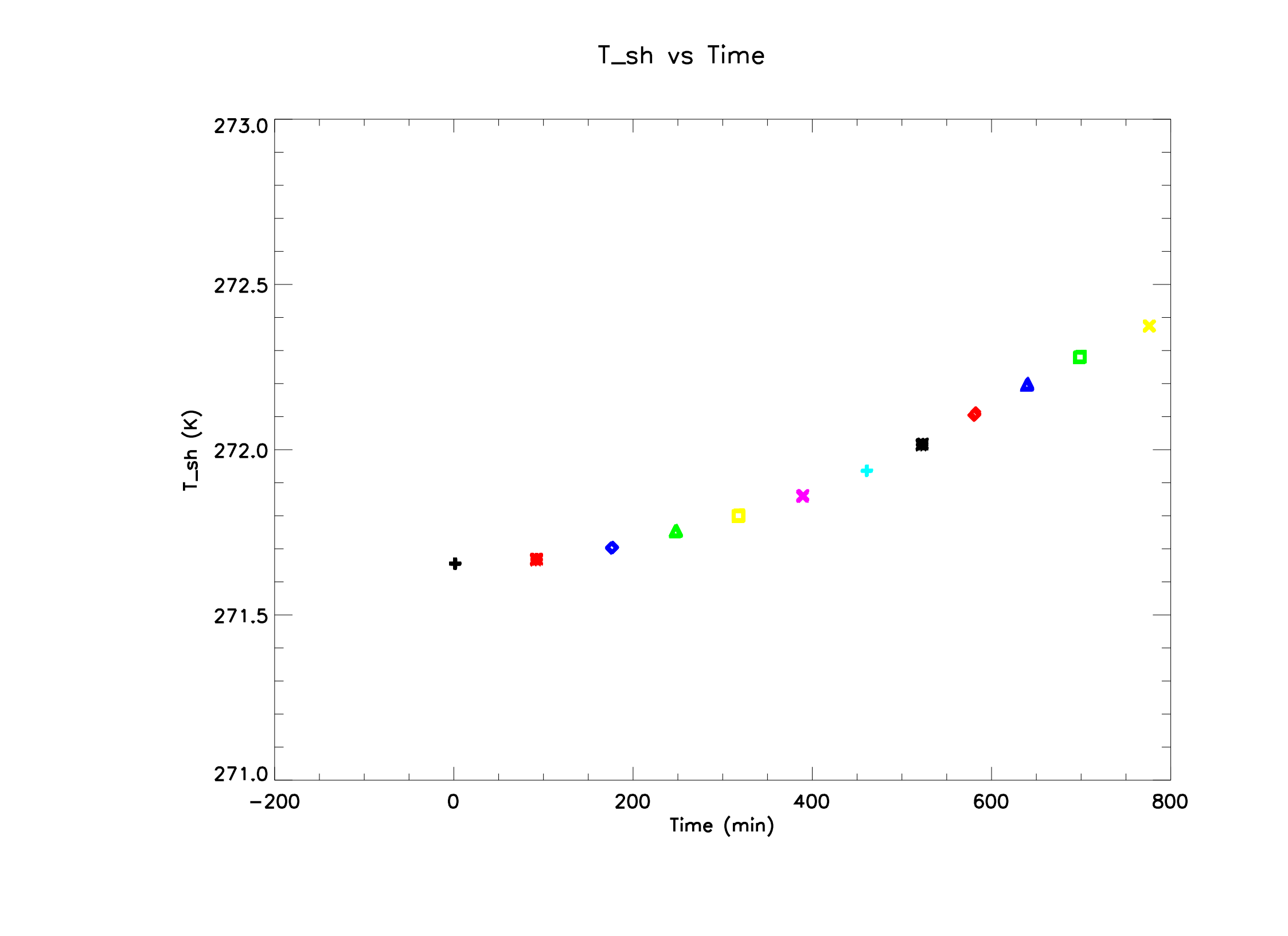

T_sh vs Scan and Collect
273.0
272.5
272.0
271.5
271.0
T_sh (K)
0
200
400
600
800
1000
1200
Collect*scan

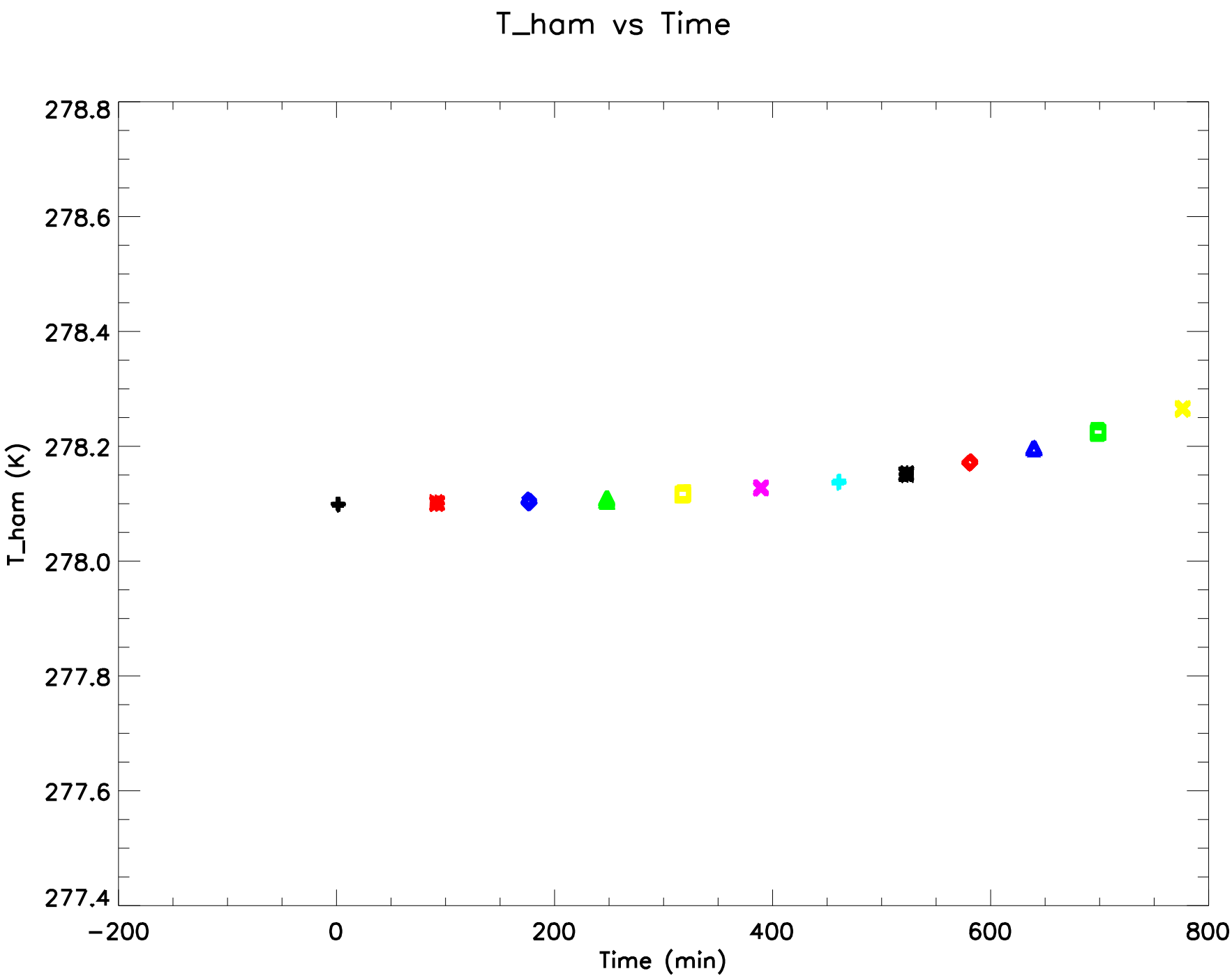

T_ham vs Scan and Collect
278.8
278.6
278.4
278.2
278.0
277.8
277.6
277.4
T_ham (K)
0
200
400
600
800
1000
1200
Collect*scan

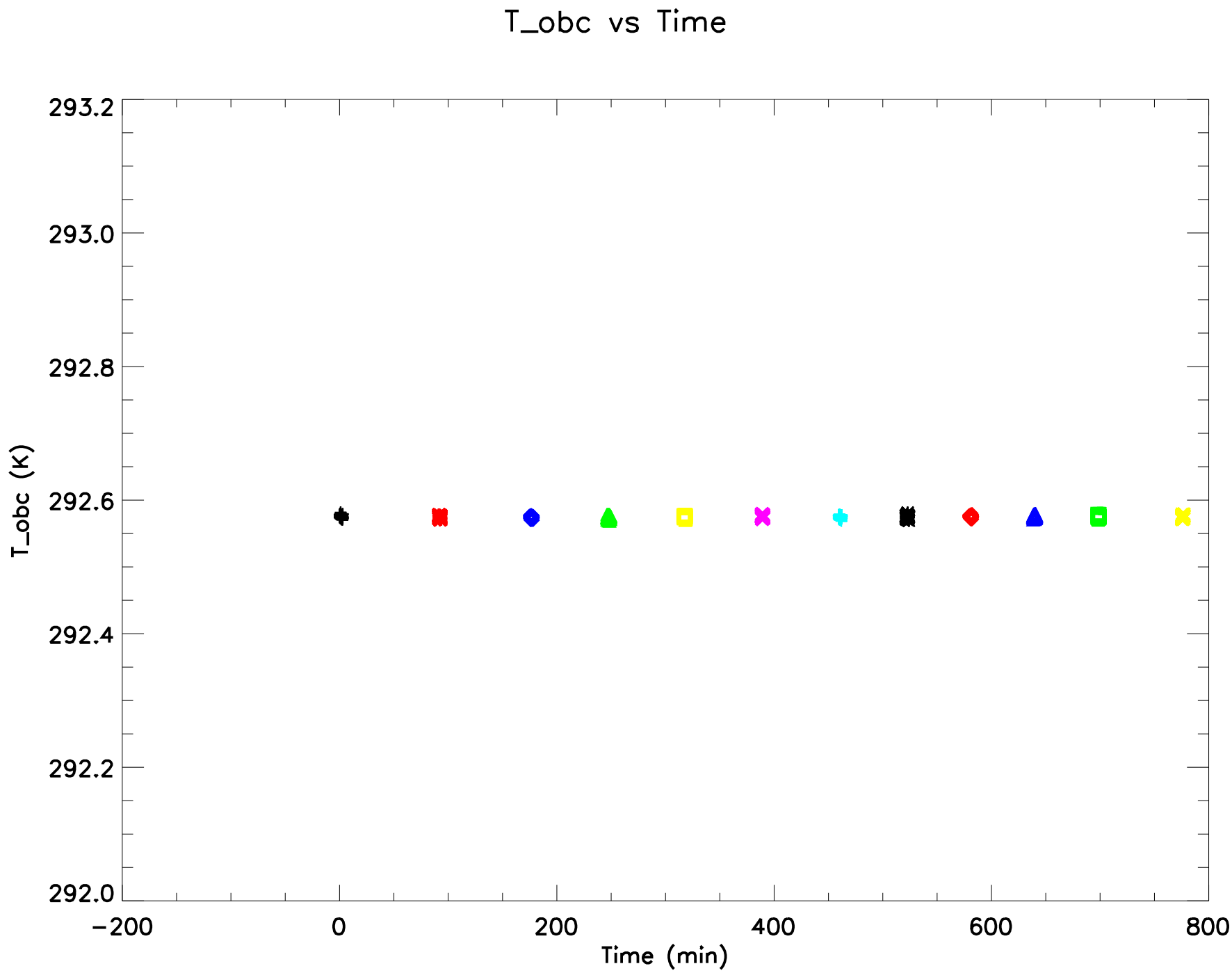

T_obc vs Scan and Collect
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
0
200
400
600
800
1000
1200
Collect*scan

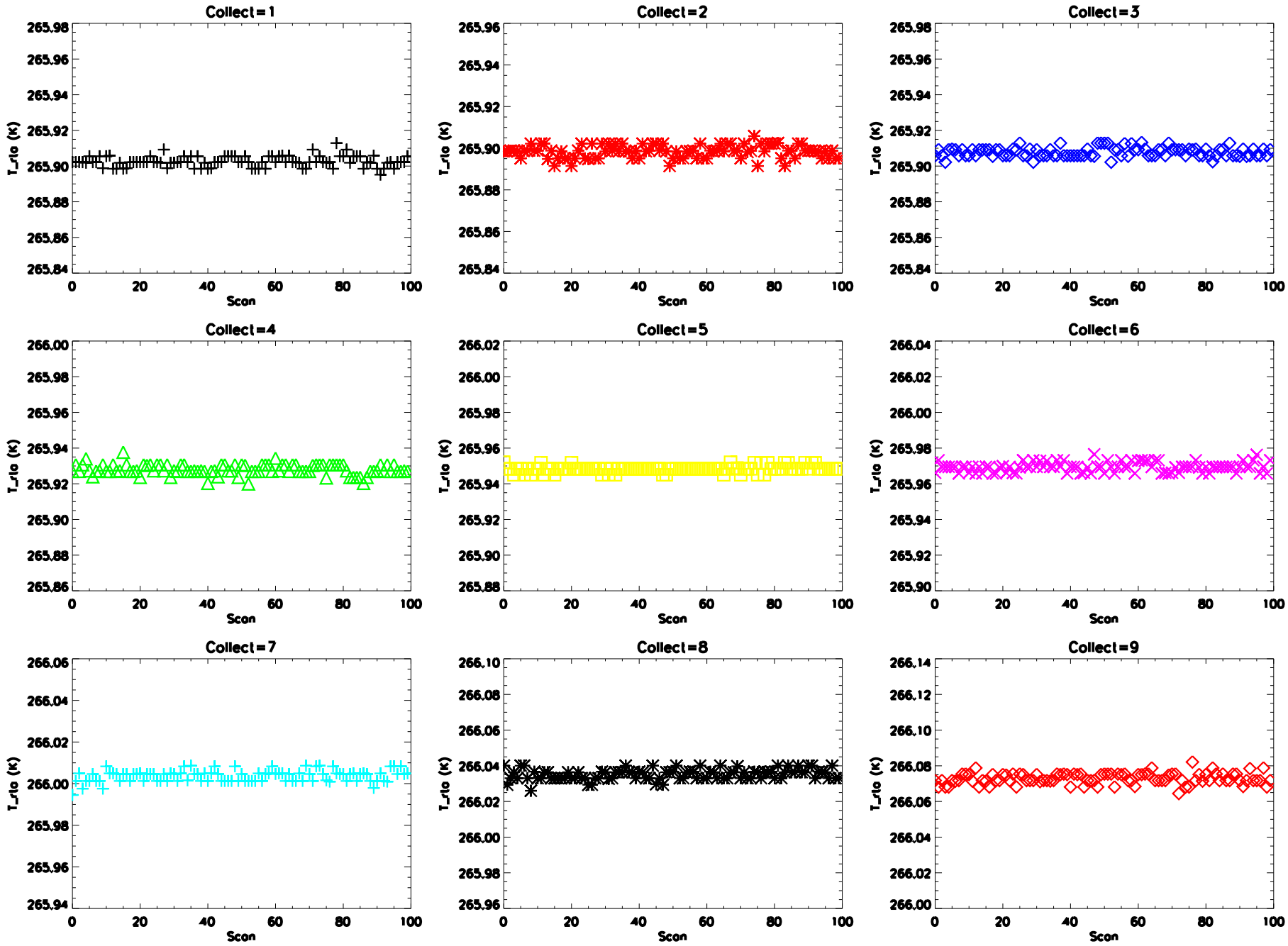

T_rta vs Time
267.0
266.5
266.0
265.5
265.0
T_rta (K)
−200
0
200
400
600
800
Time (min)


T_cav vs Time
271.5
271.0
270.5
270.0
269.5
T_cav (K)
−200
0
200
400
600
800
Time (min)

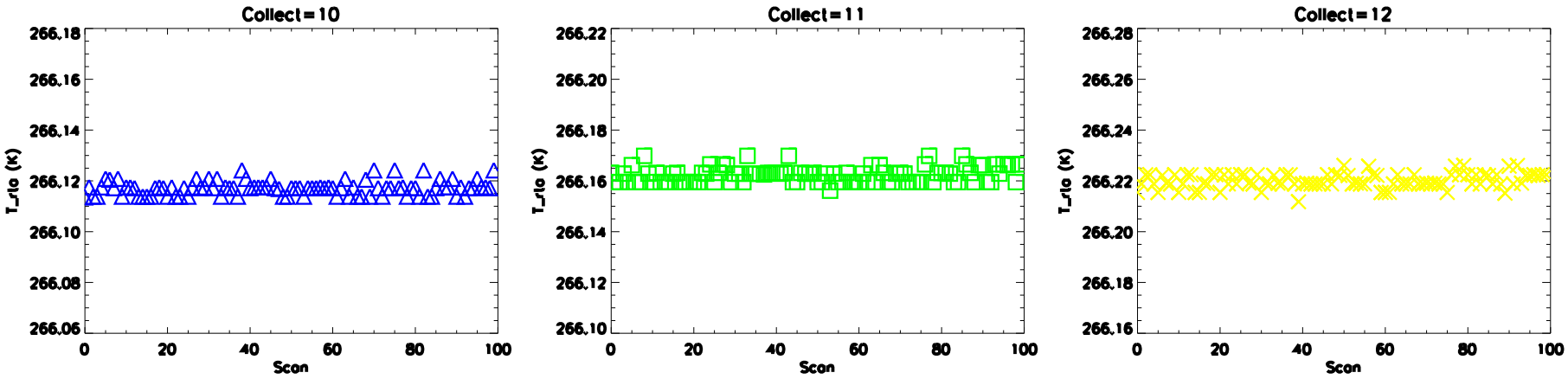

T_sh vs Time
273.0
272.5
272.0
271.5
271.0
T_sh (K)
−200
0
200
400
600
800
Time (min)

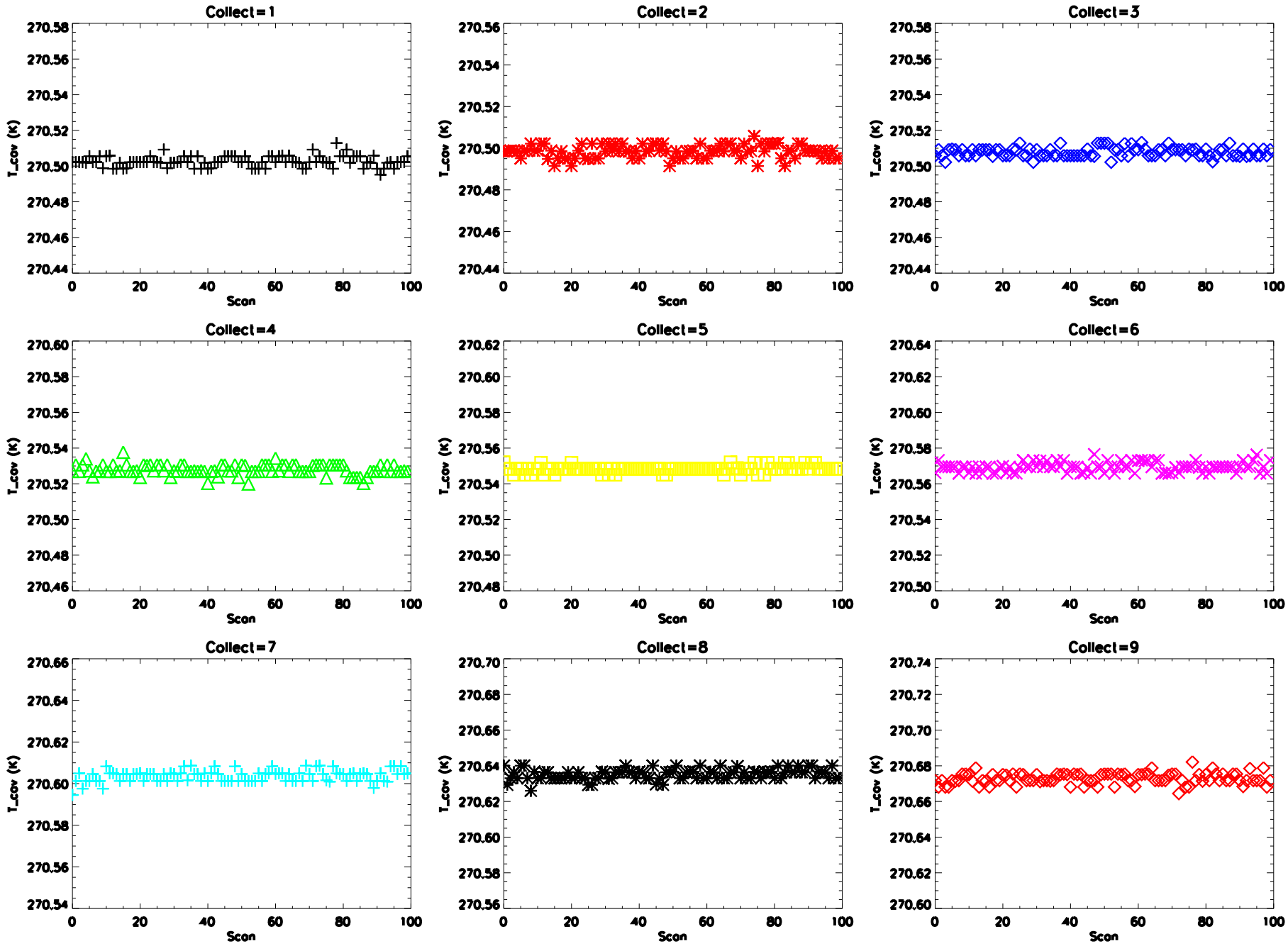

T_ham vs Time
278.8
278.6
278.4
278.2
278.0
277.8
277.6
277.4
T_ham (K)
−200
0
200
400
600
800
Time (min)


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
Time (min)

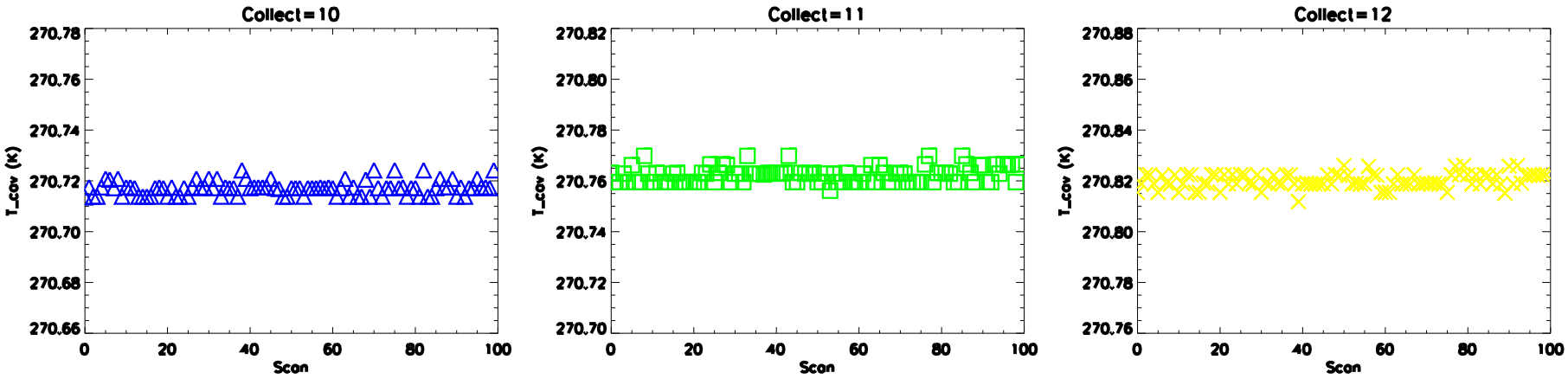

T_rta vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_rta (K)
Scan

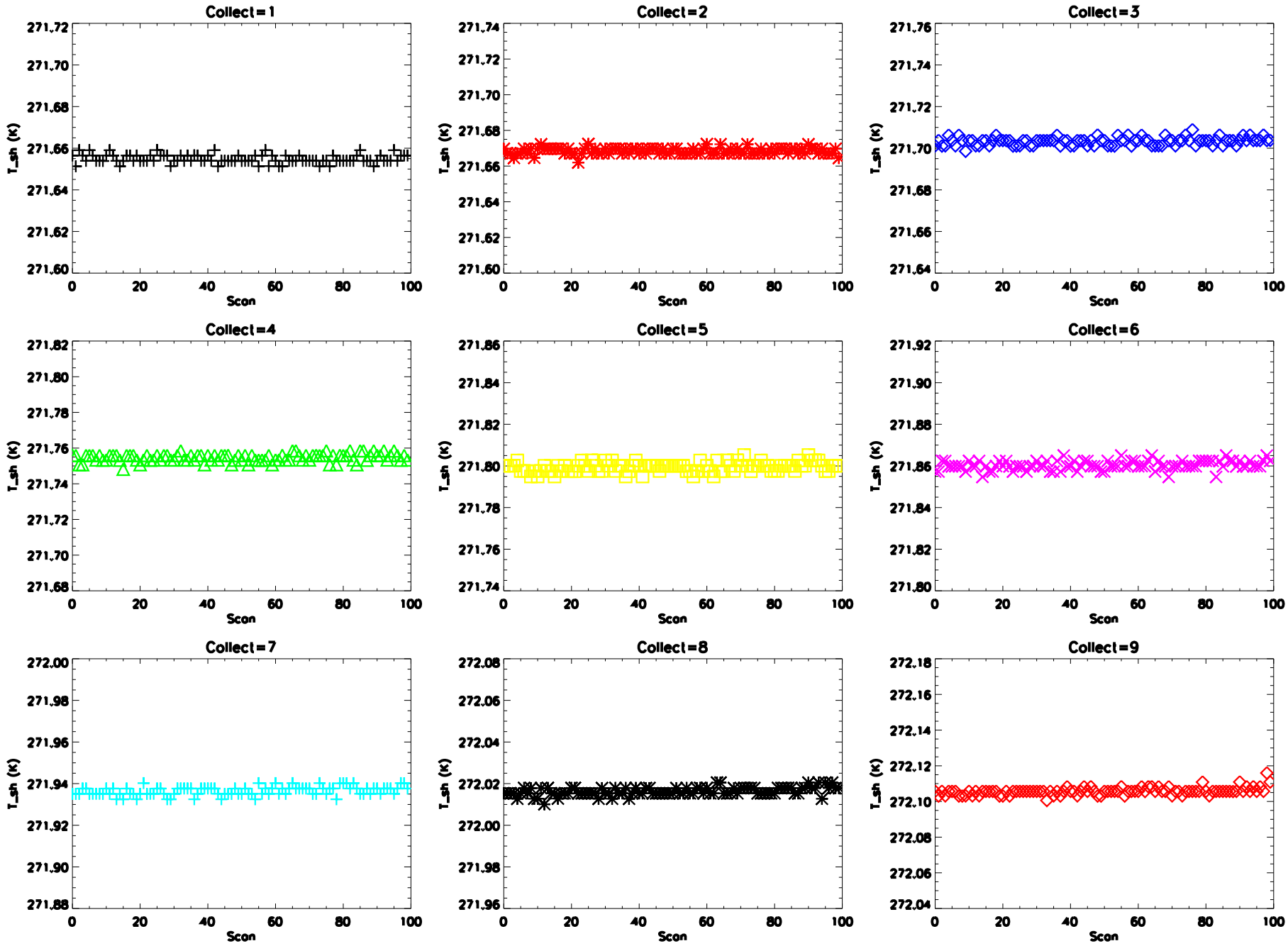
T_rta vs Scan


Collect = 10
Collect = 11
Collect = 12
T_rta (K)
Scan
266.18
266.16
266.14
266.12
266.10
266.08
266.06
266.22
266.20
266.18
266.16
266.14
266.12
266.10
266.28
266.26
266.24
266.22
266.20
266.18
266.16
0
20
40
60
80
100

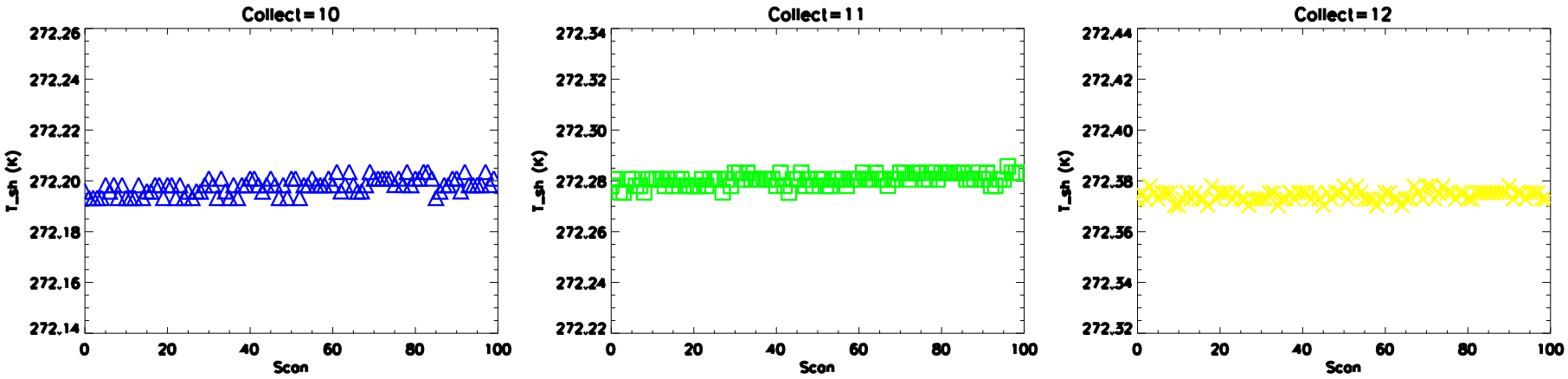

T_cav vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_cav (K)
Scan

T_cav vs Scan

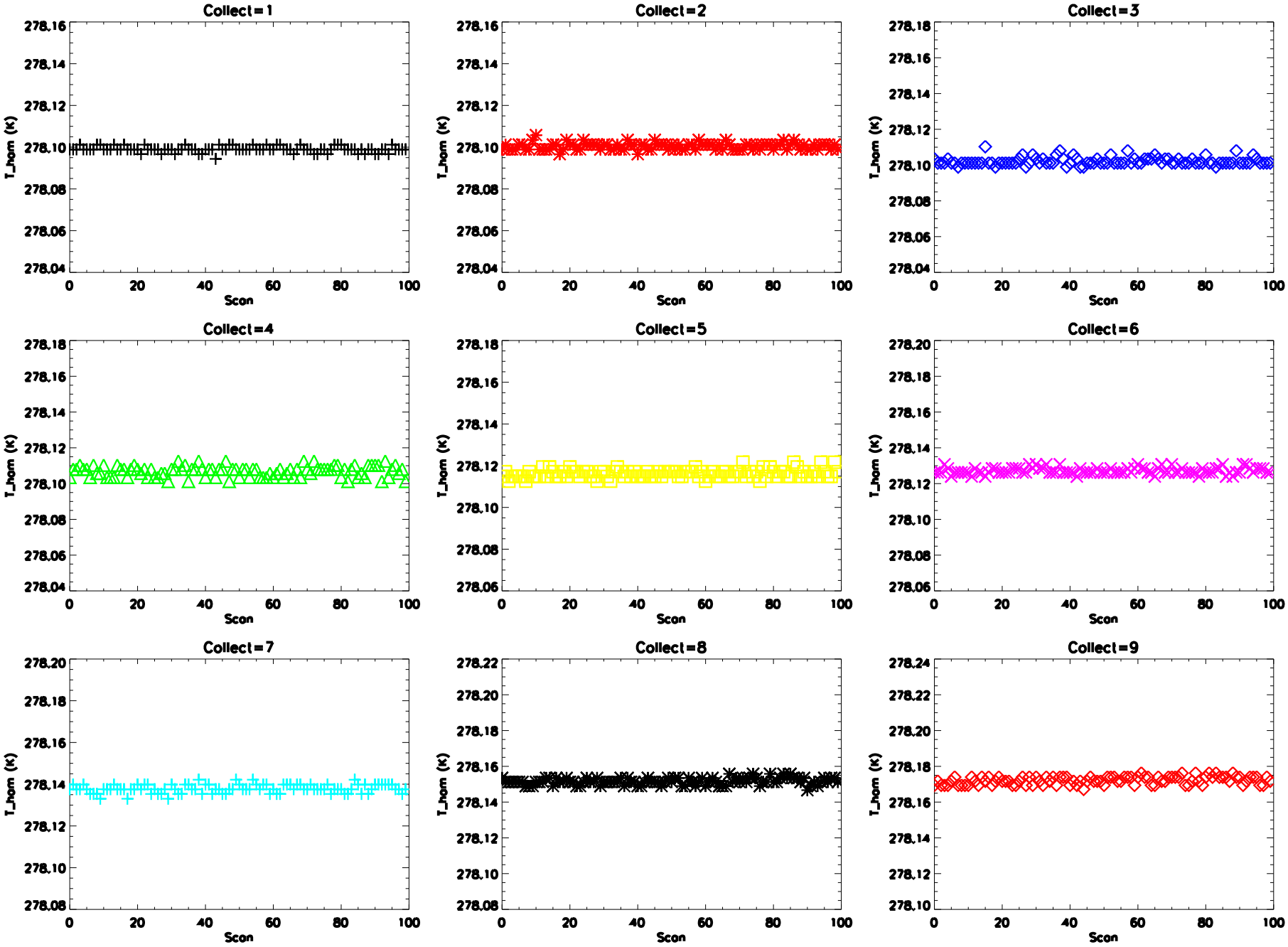

Collect = 10
T_cav (K)
270.78
270.76
270.74
270.72
270.70
270.68
270.66
0
20
40
60
80
100
Scan
Collect = 11
T_cav (K)
270.82
270.80
270.78
270.76
270.74
270.72
270.70
0
20
40
60
80
100
Scan
Collect = 12
T_cav (K)
270.88
270.86
270.84
270.82
270.80
270.78
270.76
0
20
40
60
80
100
Scan


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

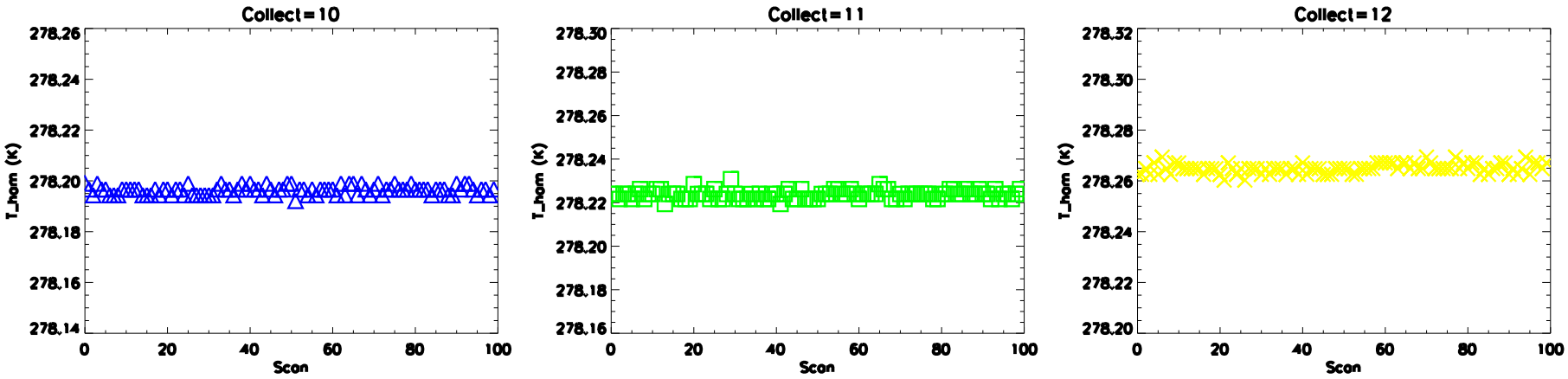
T_sh vs Scan


Collect = 10
T_sh (K)
272.26
272.24
272.22
272.20
272.18
272.16
272.14
0
20
40
60
80
100
Scan
Collect = 11
T_sh (K)
272.34
272.32
272.30
272.28
272.26
272.24
272.22
0
20
40
60
80
100
Scan
Collect = 12
T_sh (K)
272.44
272.42
272.40
272.38
272.36
272.34
272.32
0
20
40
60
80
100
Scan

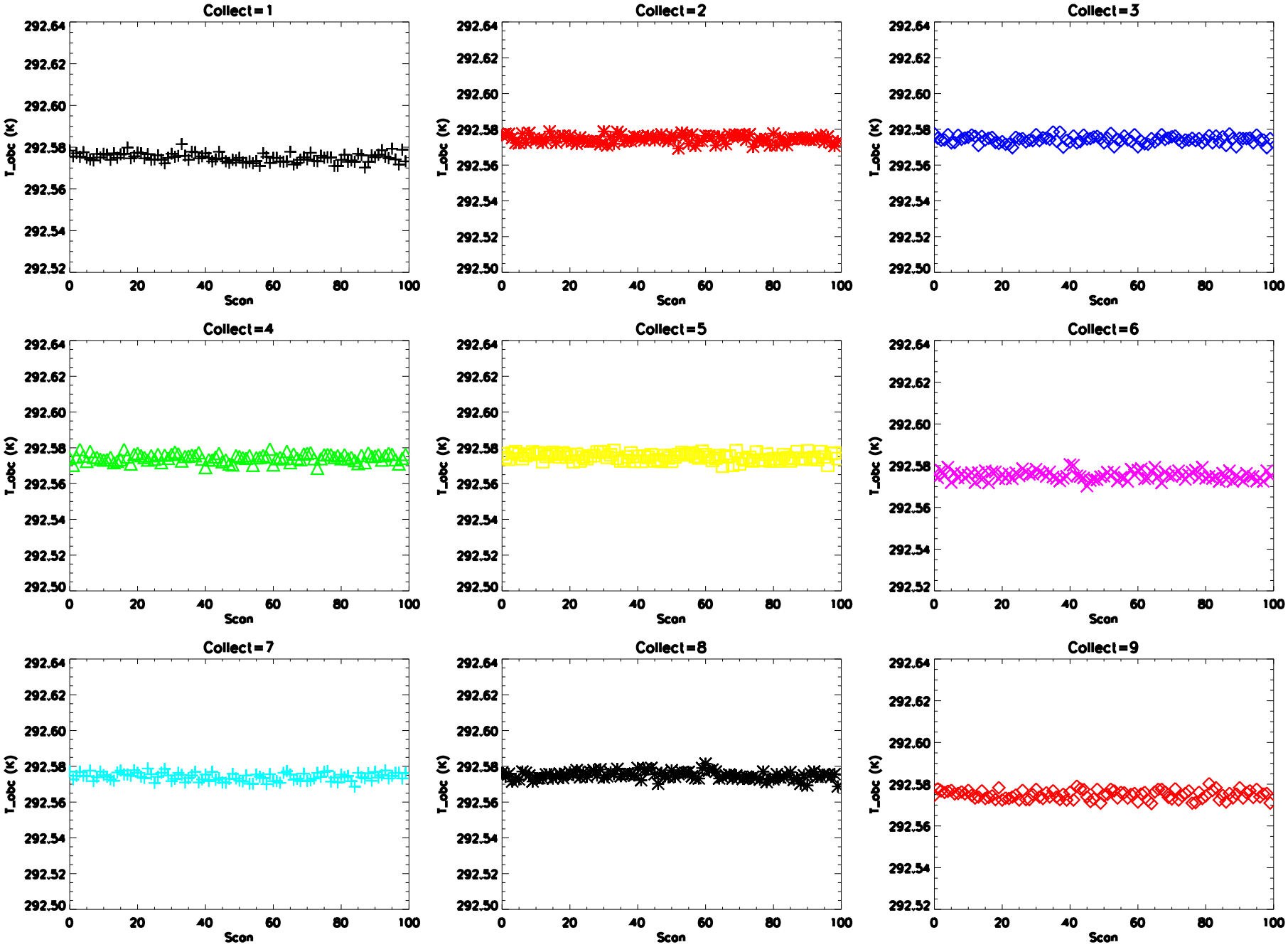
T_ham vs Scan


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

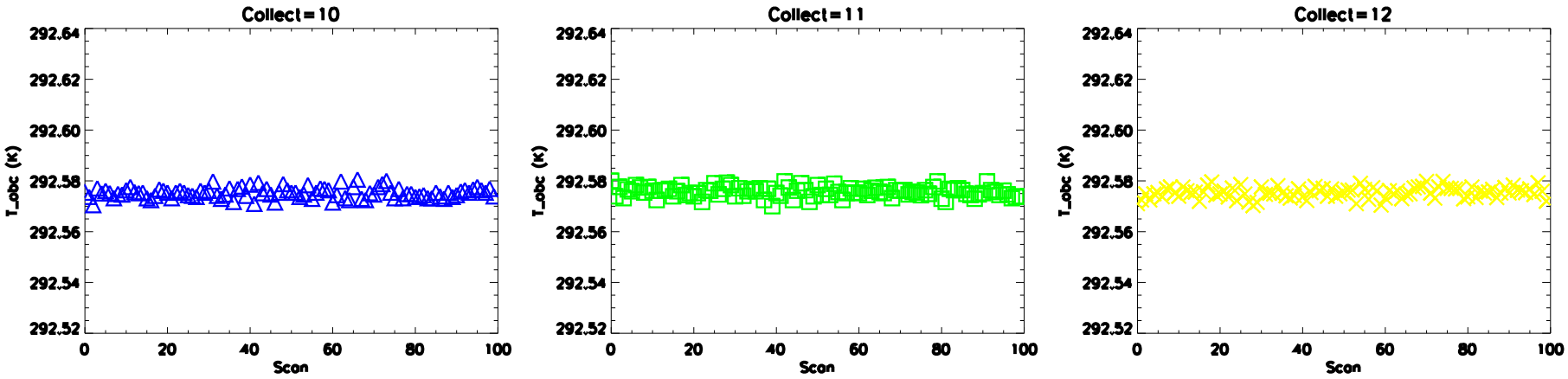
T_ham vs Scan

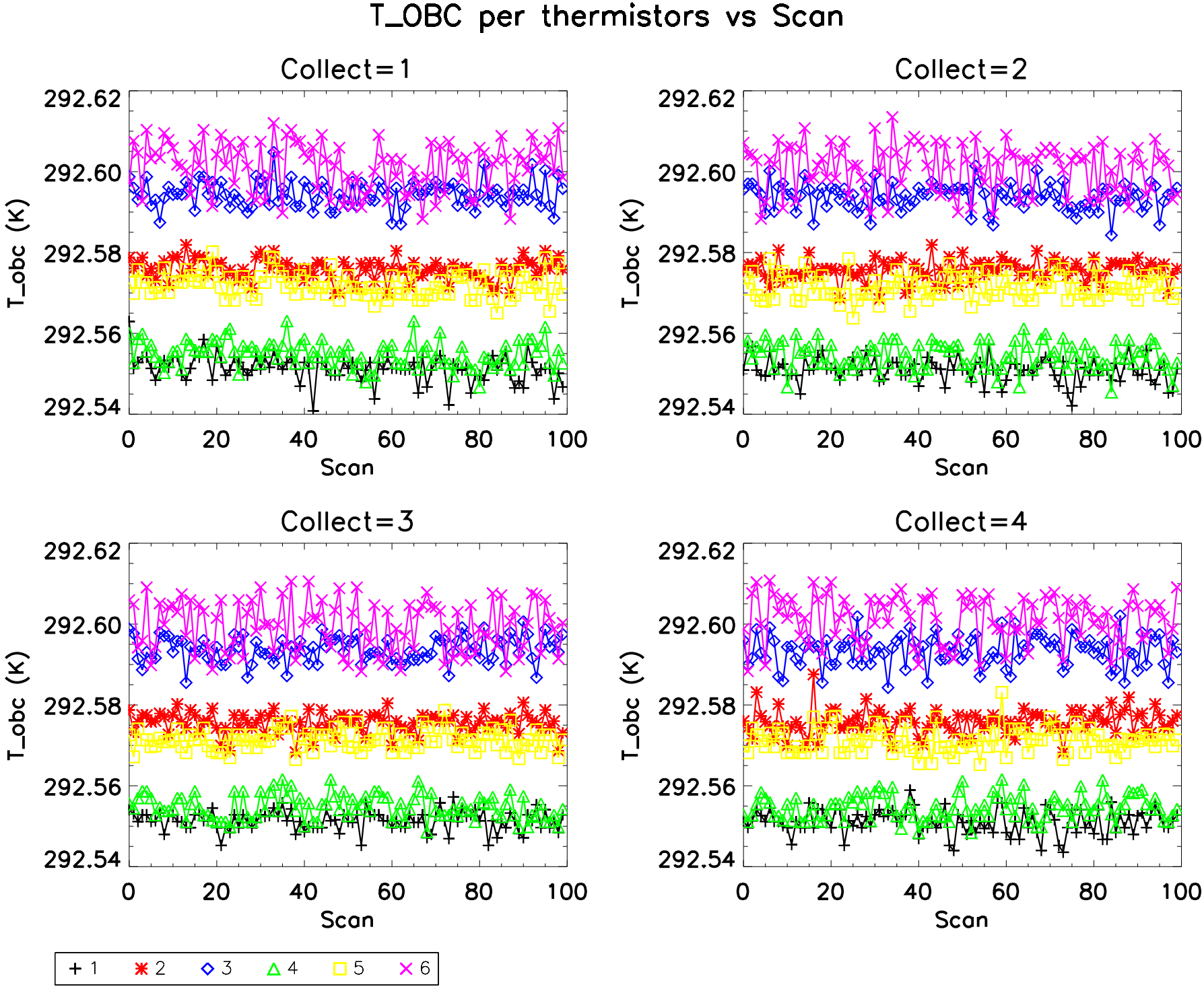

Collect = 10
T_ham (K)
278.26
278.24
278.22
278.20
278.18
278.16
278.14
0
20
40
60
80
100
Scan
Collect = 11
T_ham (K)
278.30
278.28
278.26
278.24
278.22
278.20
278.18
278.16
0
20
40
60
80
100
Scan
Collect = 12
T_ham (K)
278.32
278.30
278.28
278.26
278.24
278.22
278.20
0
20
40
60
80
100
Scan

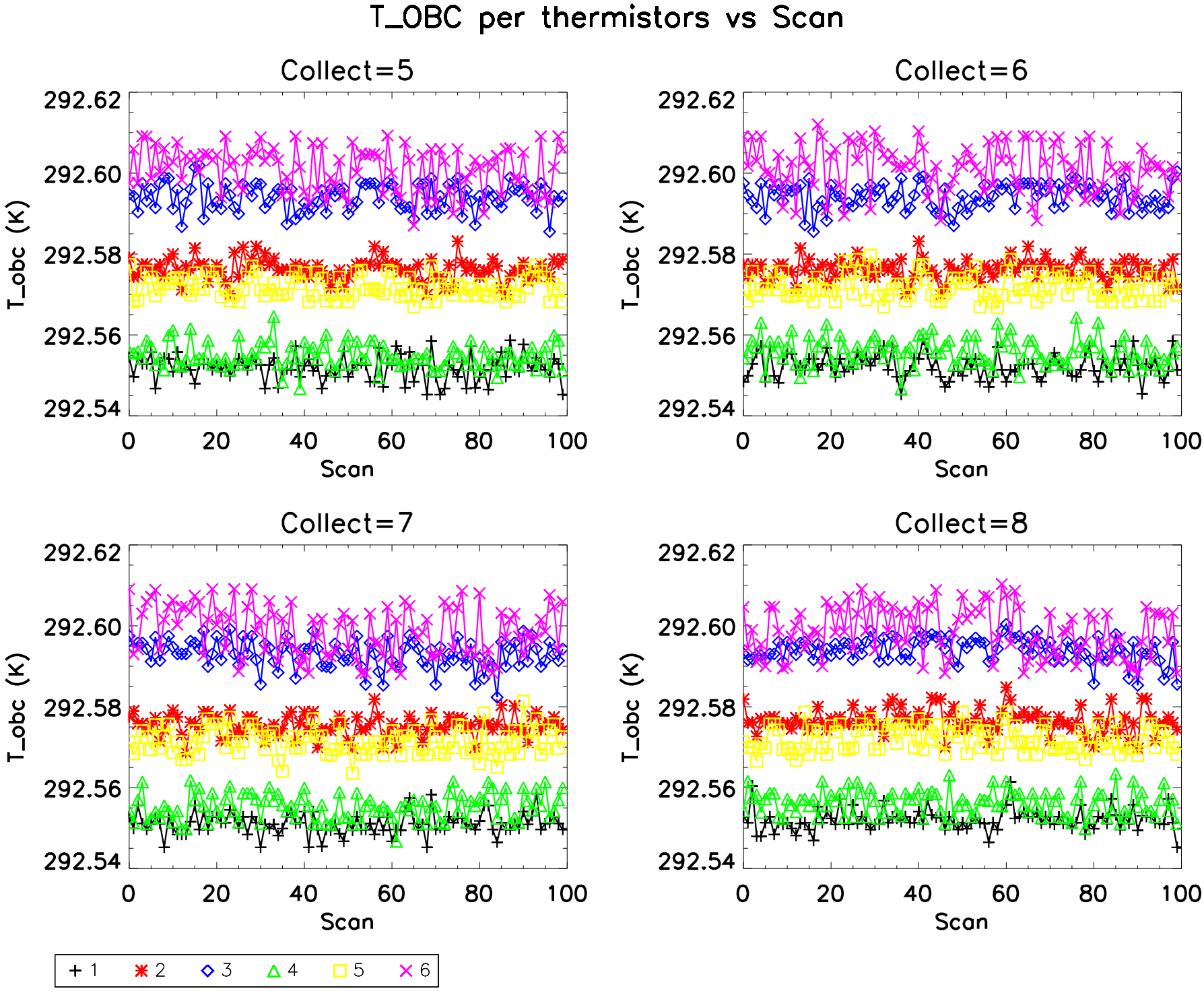
T_obc vs Scan

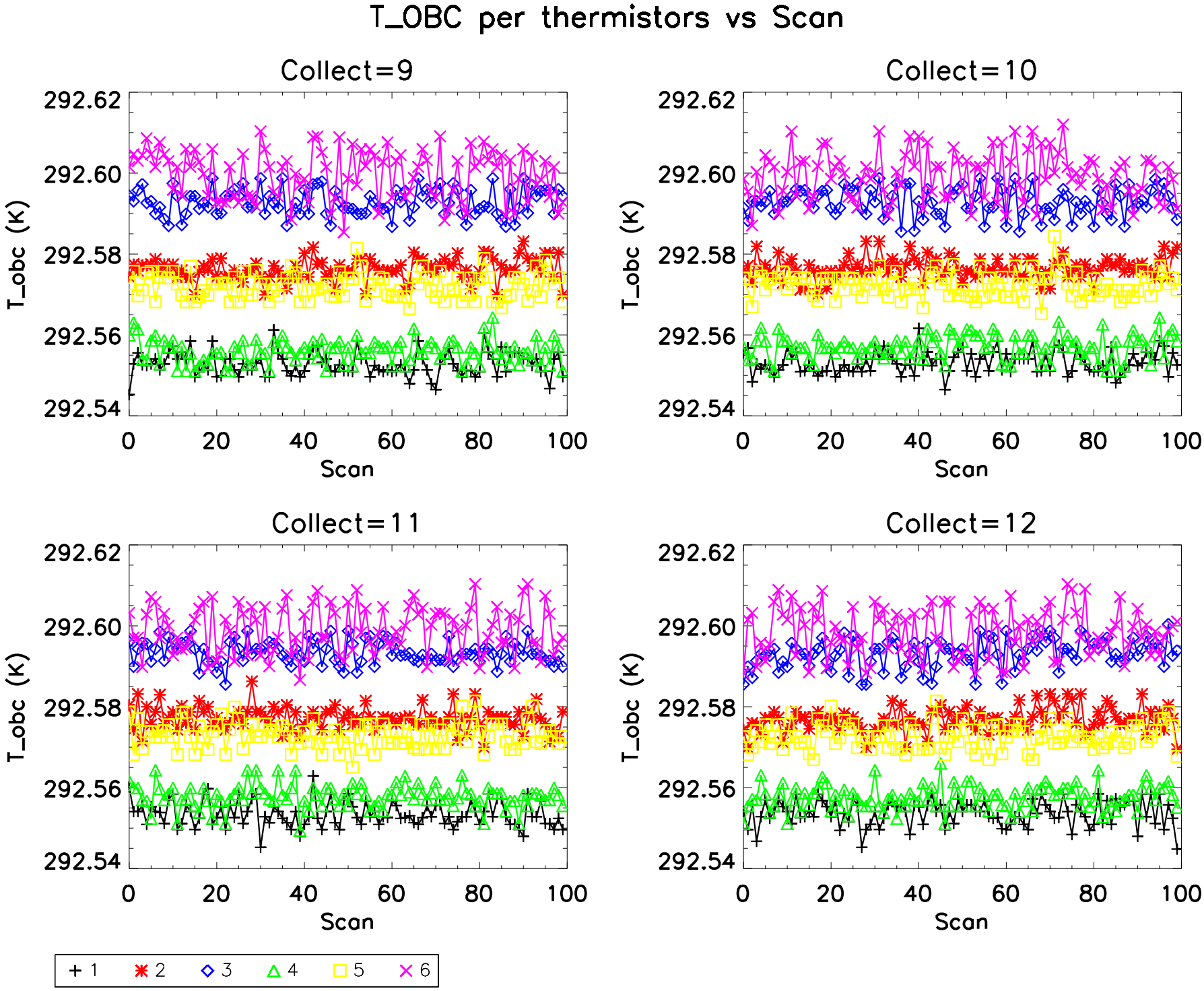

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
292.50
0
20
40
60
80
100

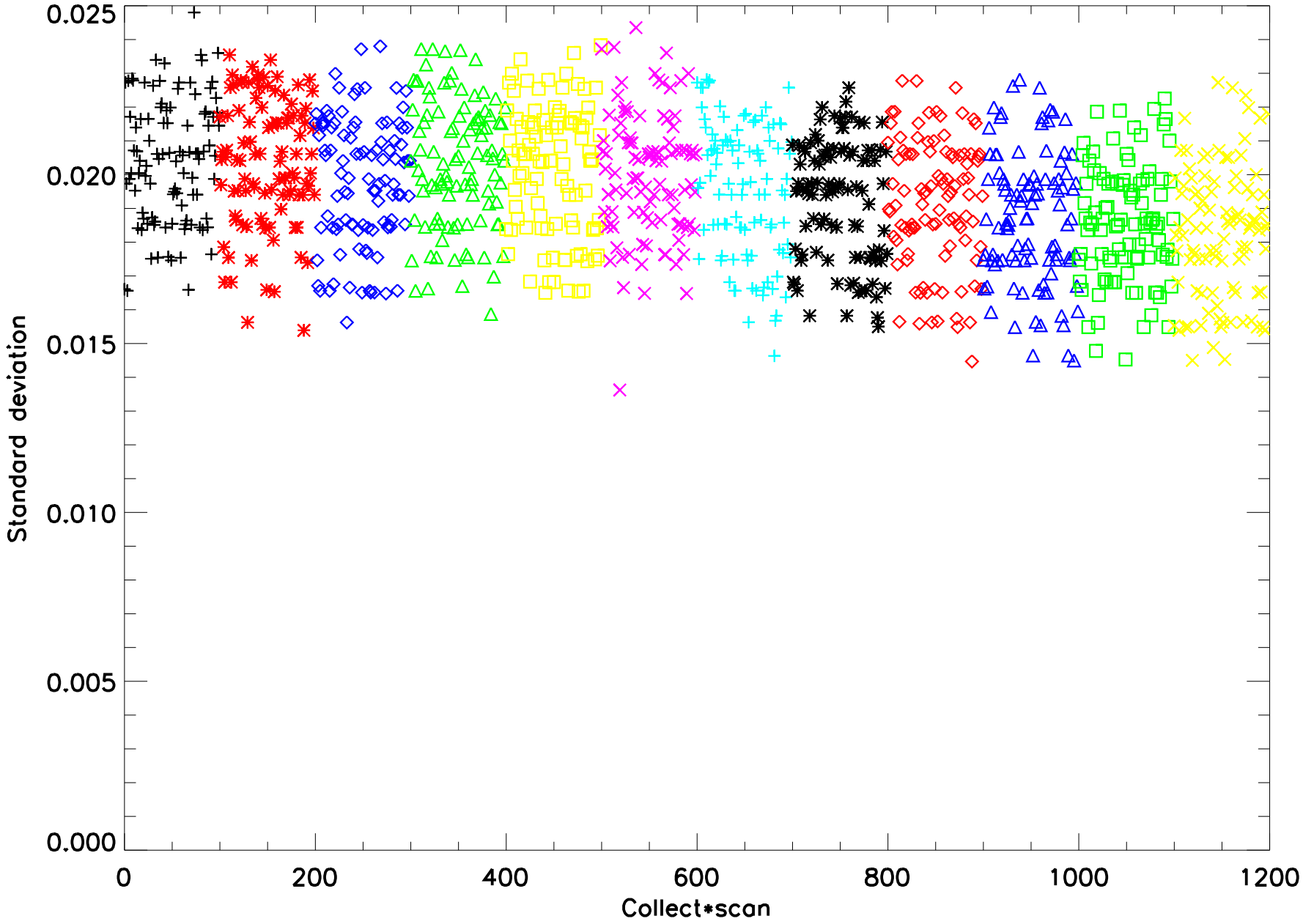
T_obc vs Scan

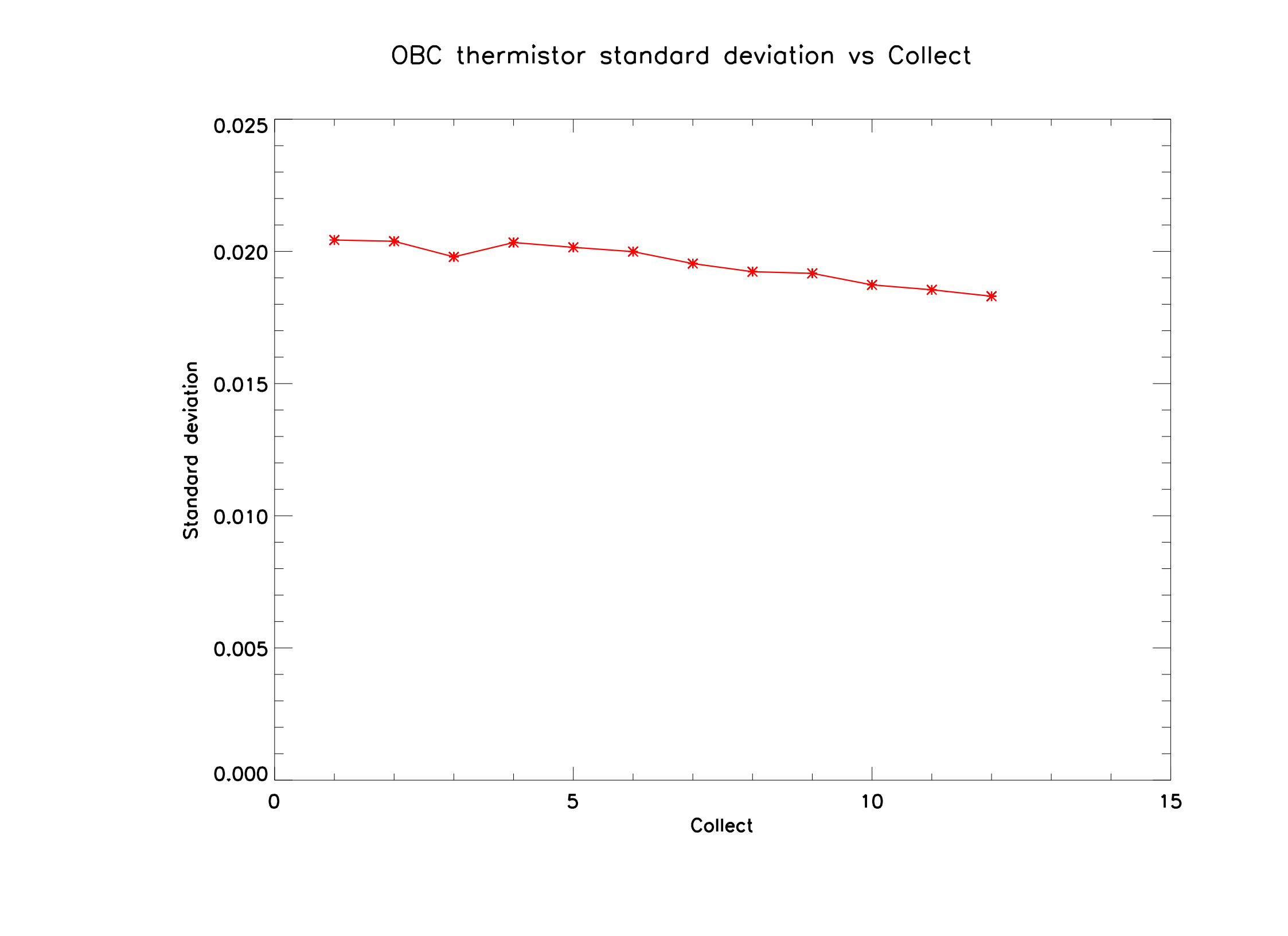

Collect = 10
Collect = 11
Collect = 12
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100

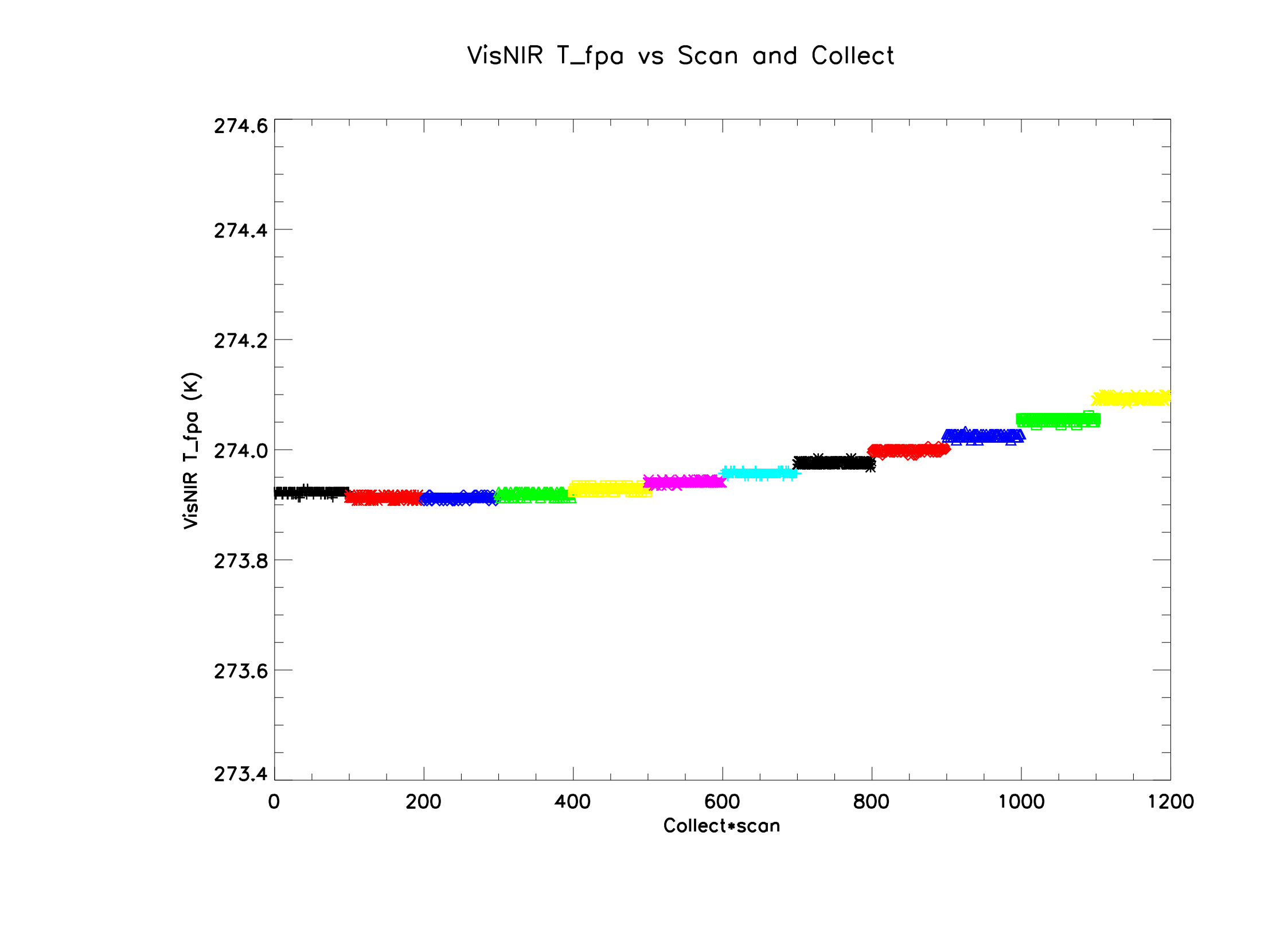

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
Scan
1
2
3
4
5
6

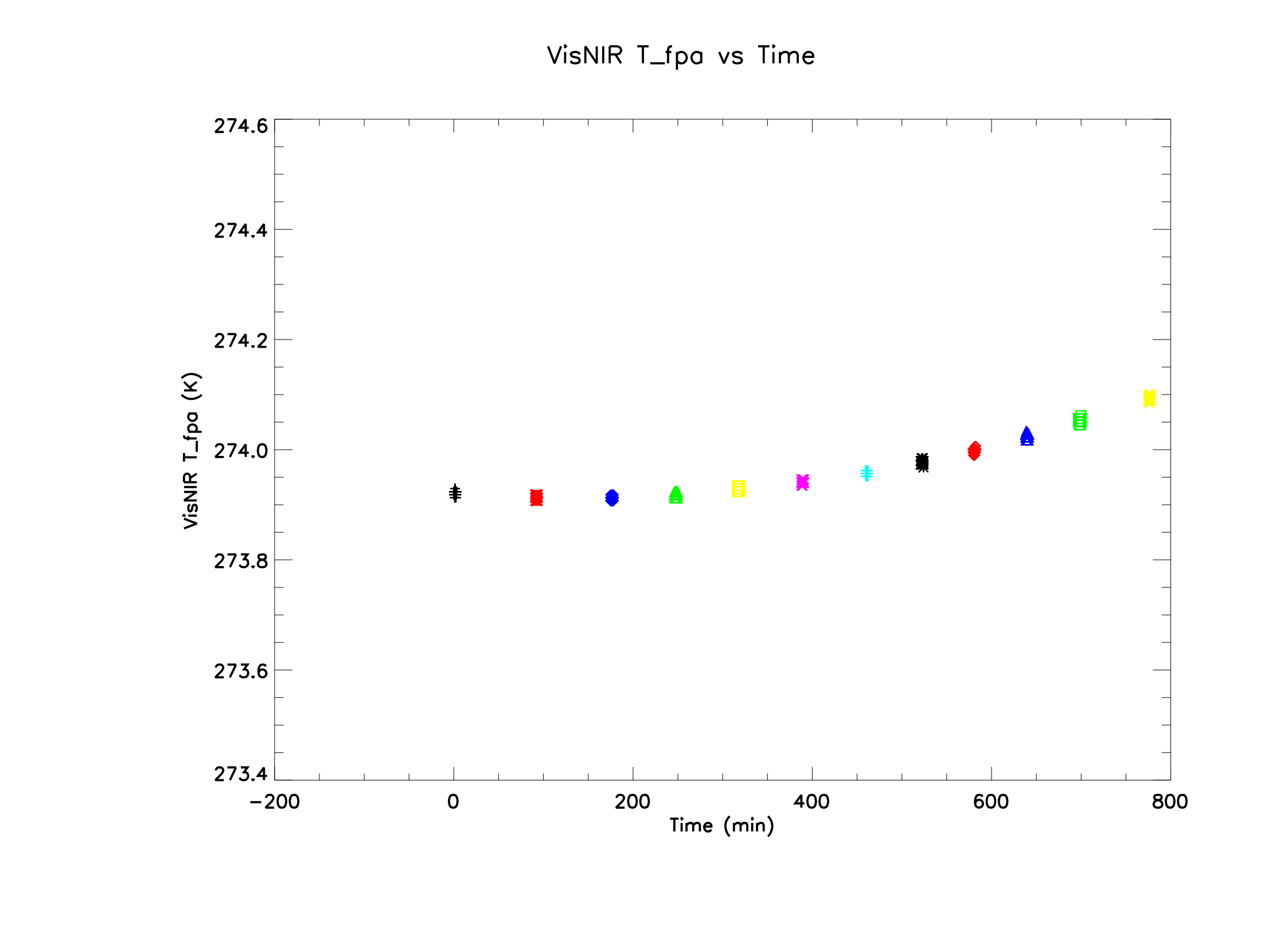

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
Scan
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
1
2
3
4
5
6

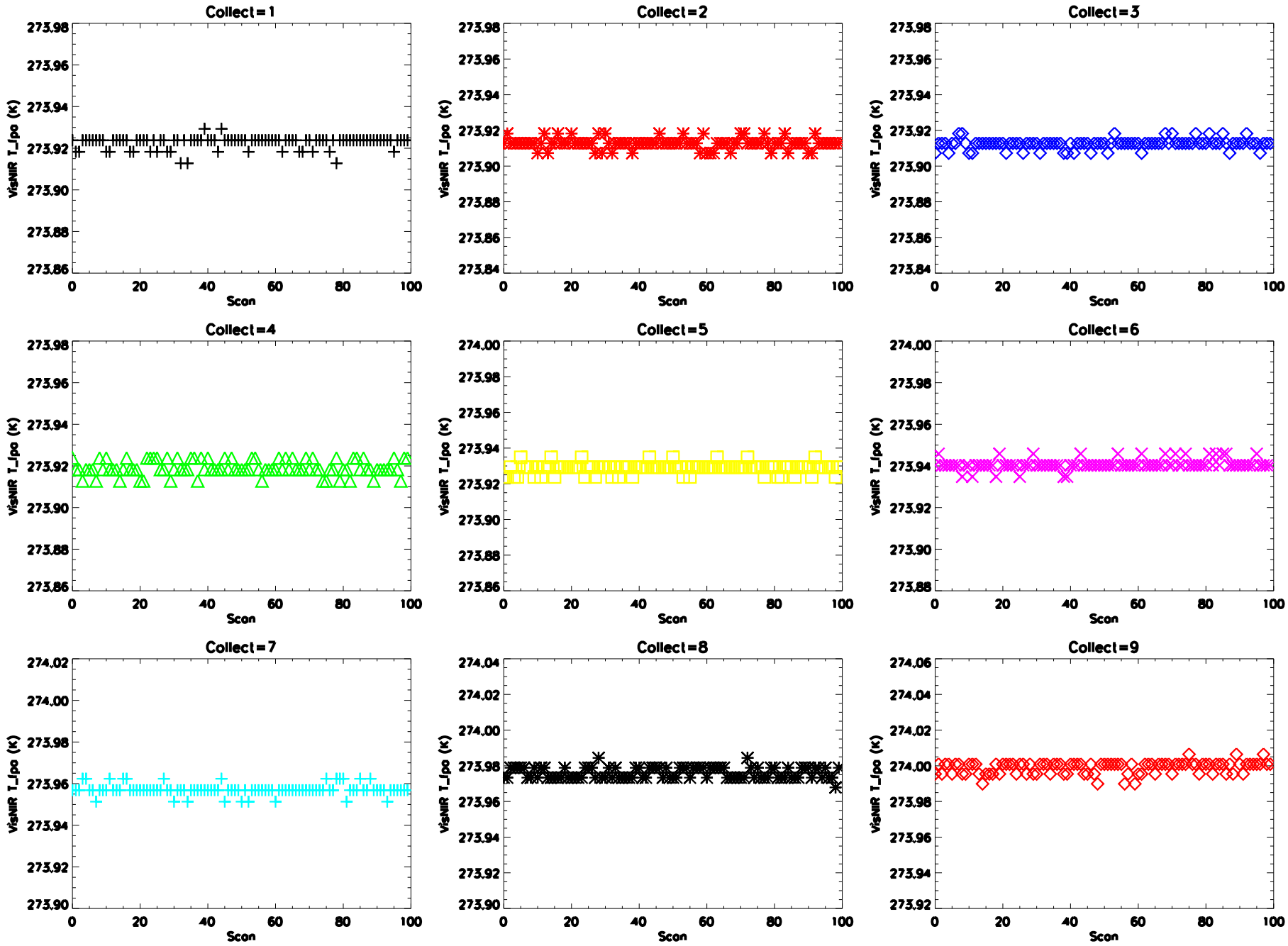

T_OBC per thermistors vs Scan
Collect=9
Collect=10
Collect=11
Collect=12
T_obc (K)
292.62
292.60
292.58
292.56
292.54
0
20
40
60
80
100
Scan
1
2
3
4
5
6


OBC thermistor standard deviation vs Scan and Collect
Standard deviation
0.025
0.020
0.015
0.010
0.005
0.000
0
200
400
600
800
1000
1200
Collect*scan

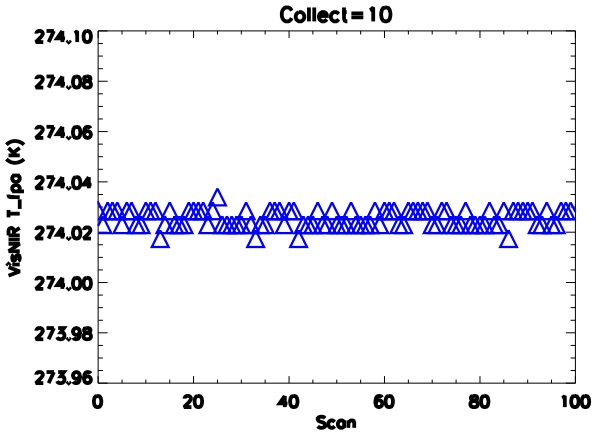

OBC thermistor standard deviation vs Collect
Standard deviation
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
Collect

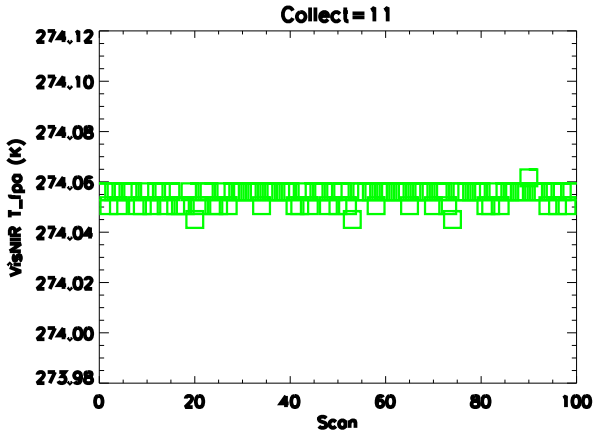

VisNIR T_fpa vs Scan and Collect
274.6
274.4
274.2
274.0
273.8
273.6
273.4
VisNIR T_fpa (K)
0
200
400
600
800
1000
1200
Collect*scan

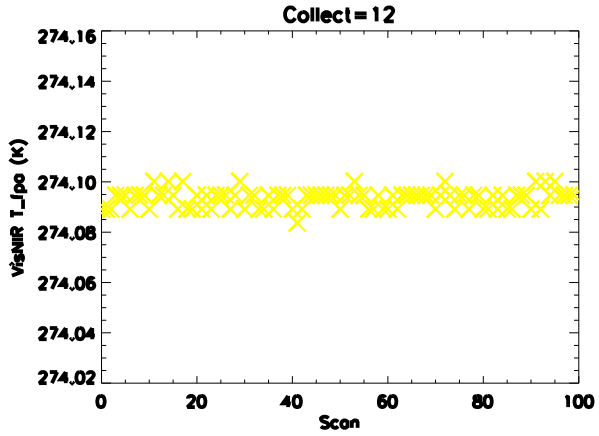

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
274.6
274.4
274.2
274.0
273.8
273.6
273.4
−200
0
200
400
600
800
Time (min)

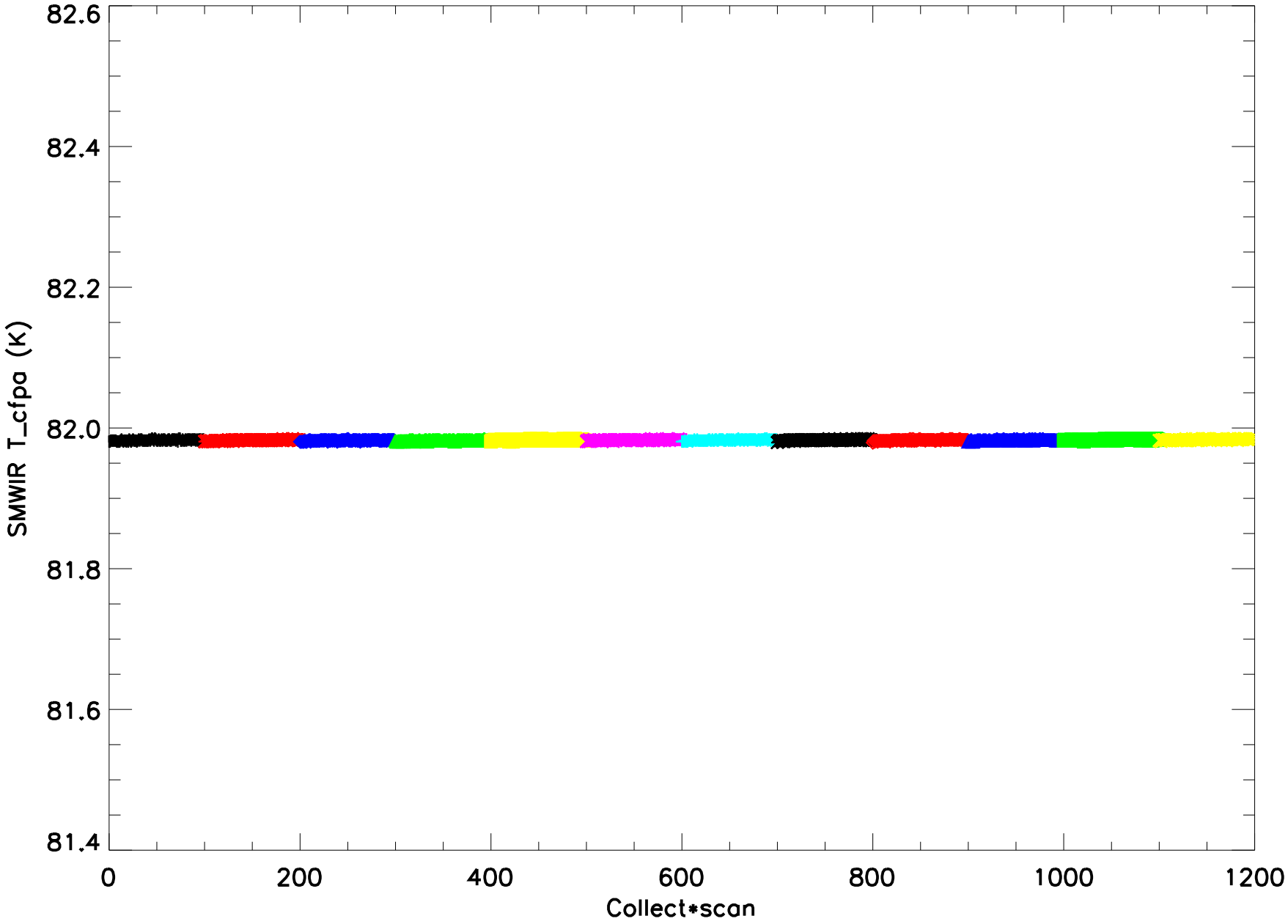

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_ipo (K)
Scan

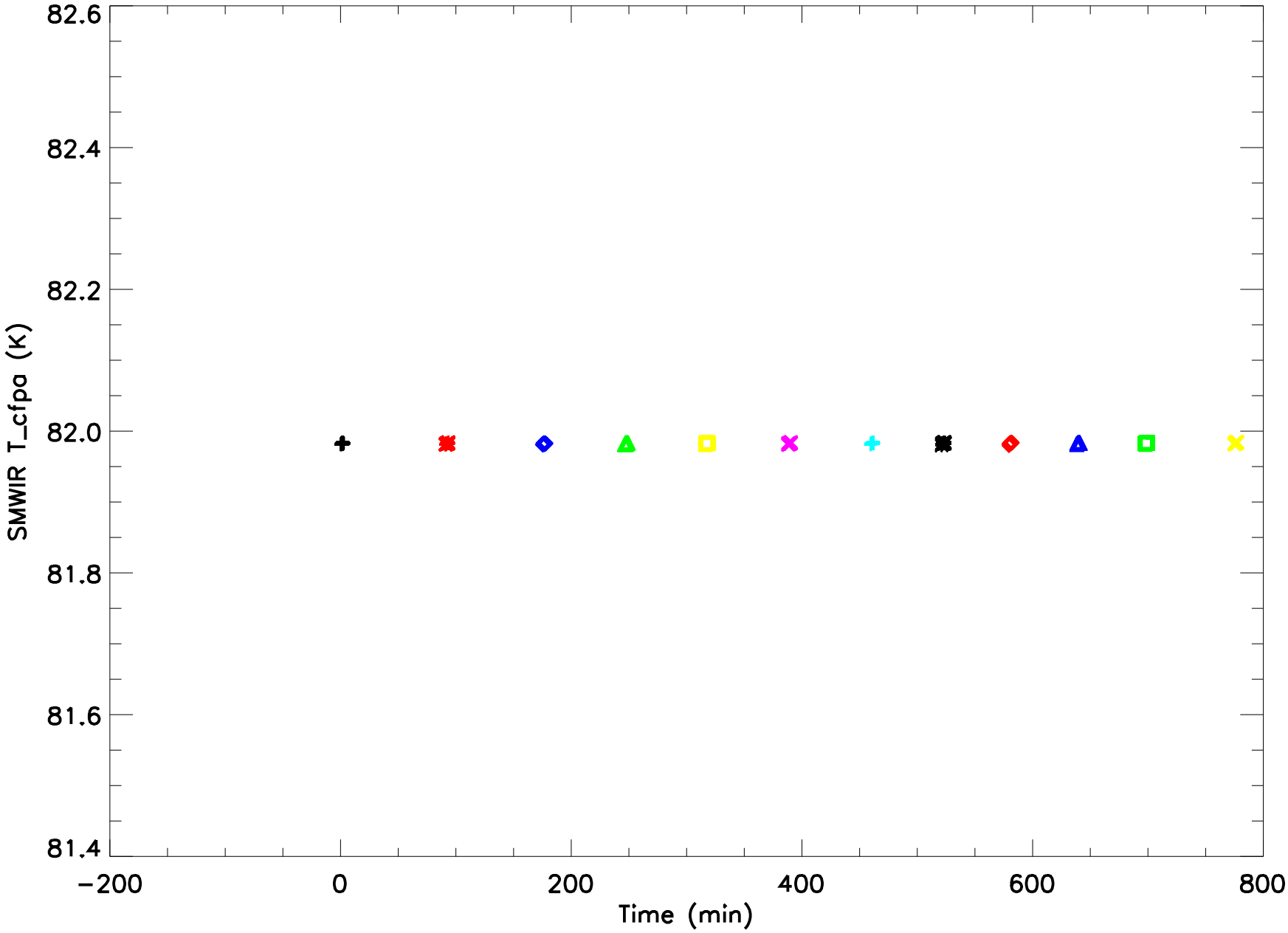
VisNIR T_fpa vs Scan

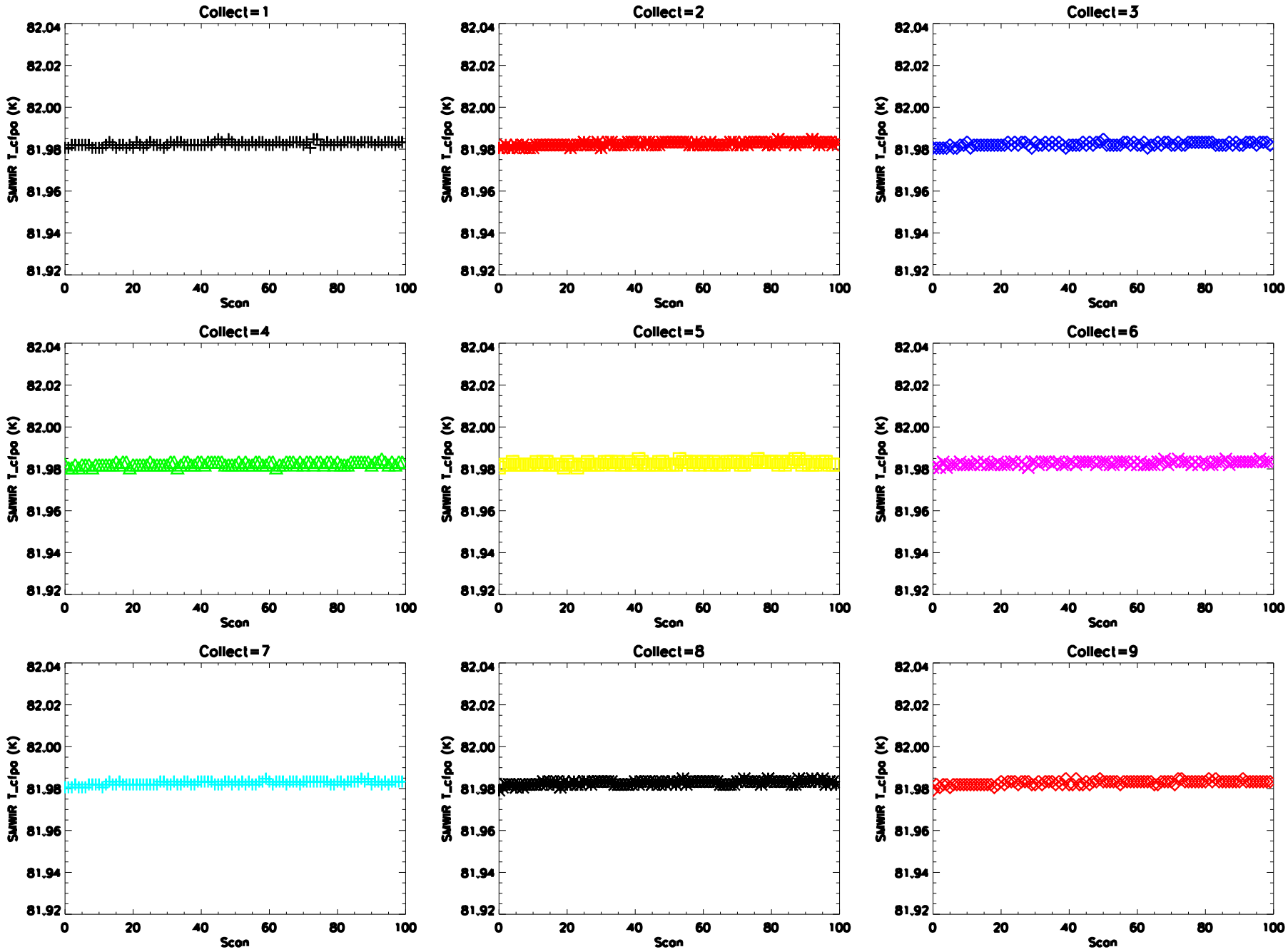




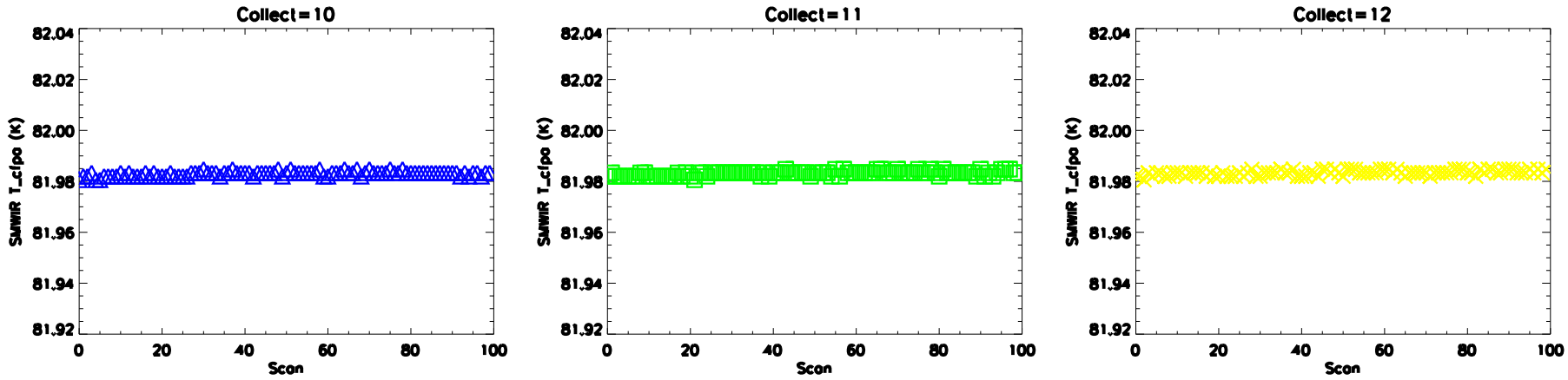


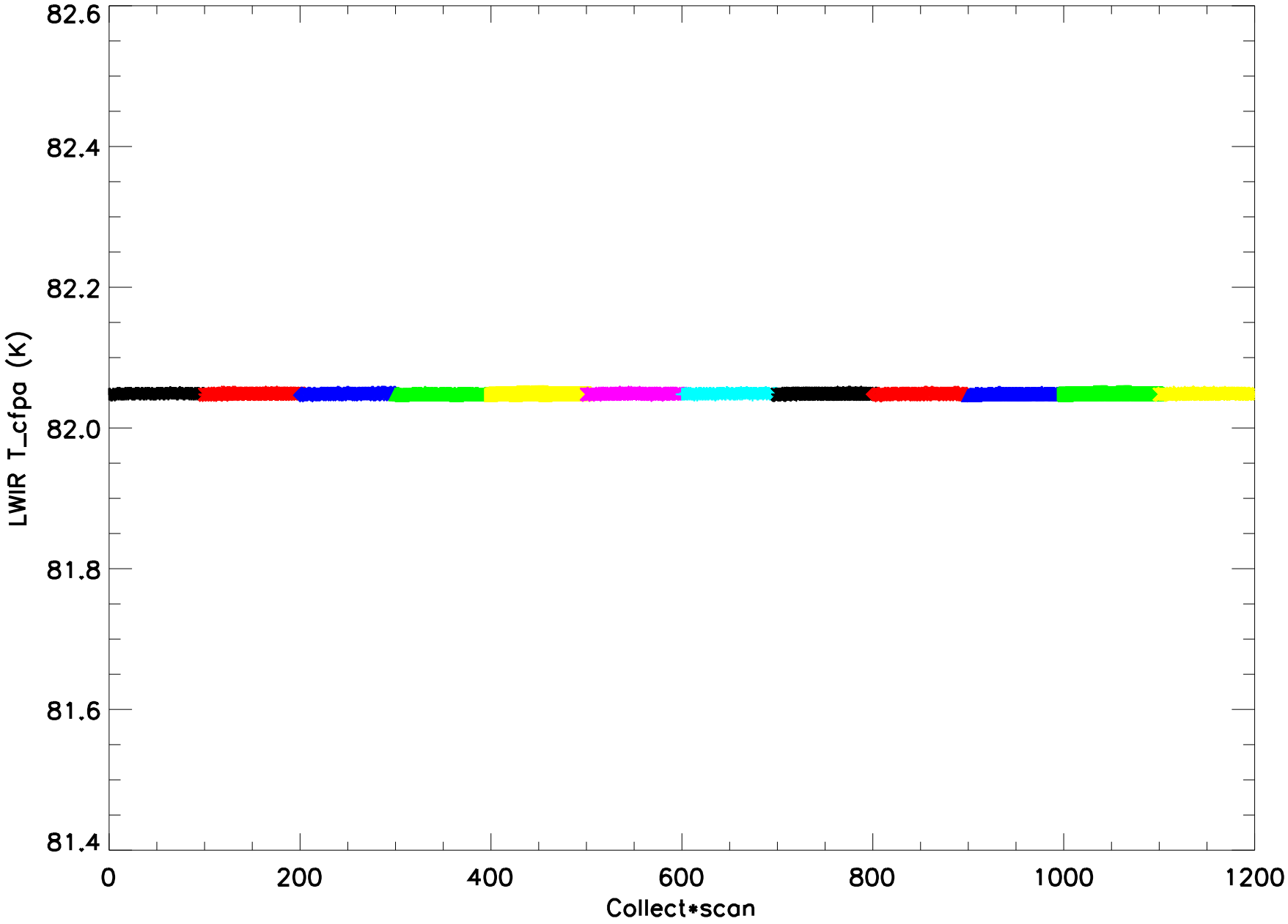

SMWIR T_cfpa vs Scan and Collect
SMWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
0
200
400
600
800
1000
1200
Collect*scan

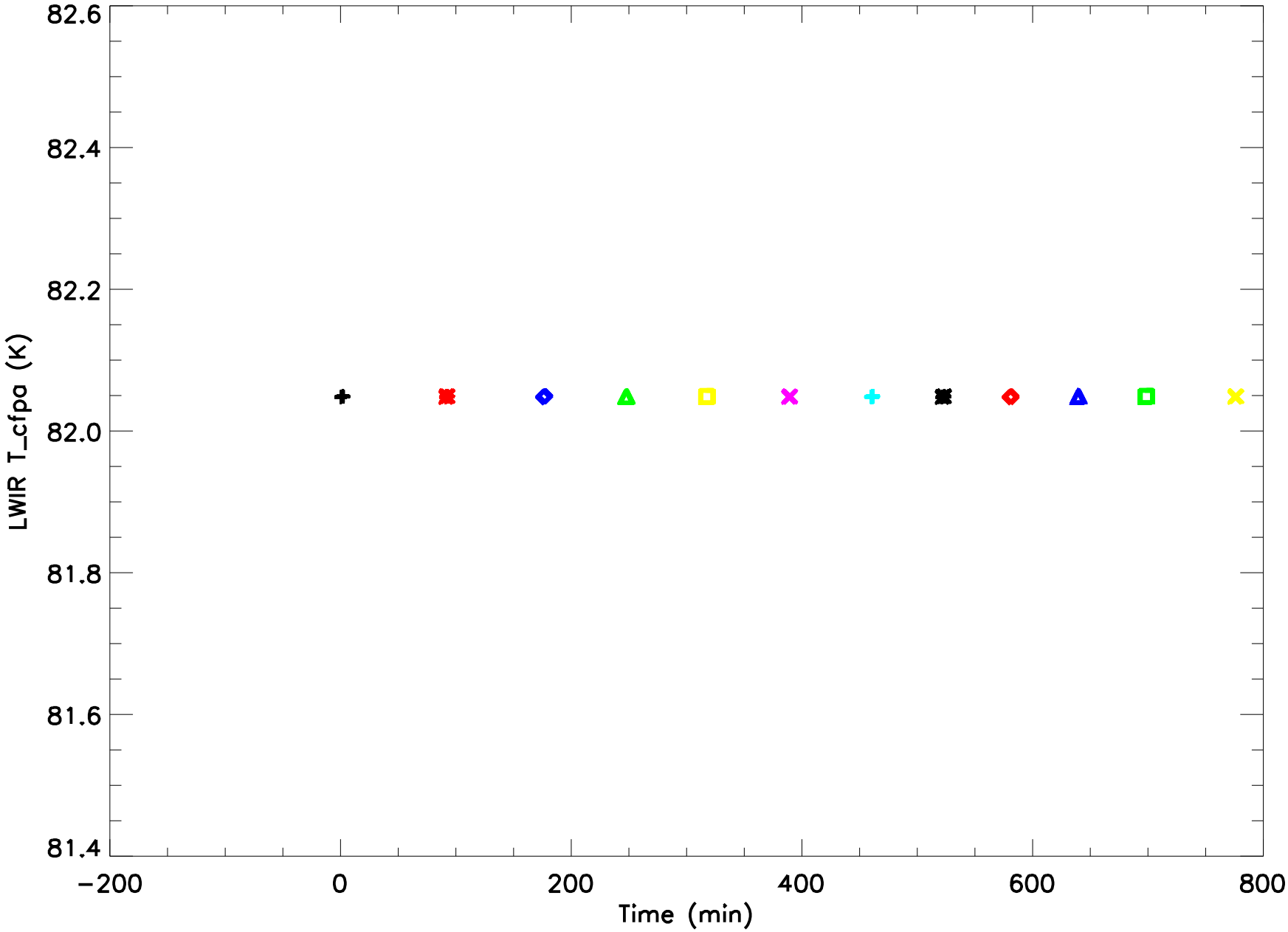

SMWIR T_cfpa vs Time
82.6
82.4
82.2
82.0
81.8
81.6
81.4
SMWIR T_cfpa (K)
−200
0
200
400
600
800
Time (min)

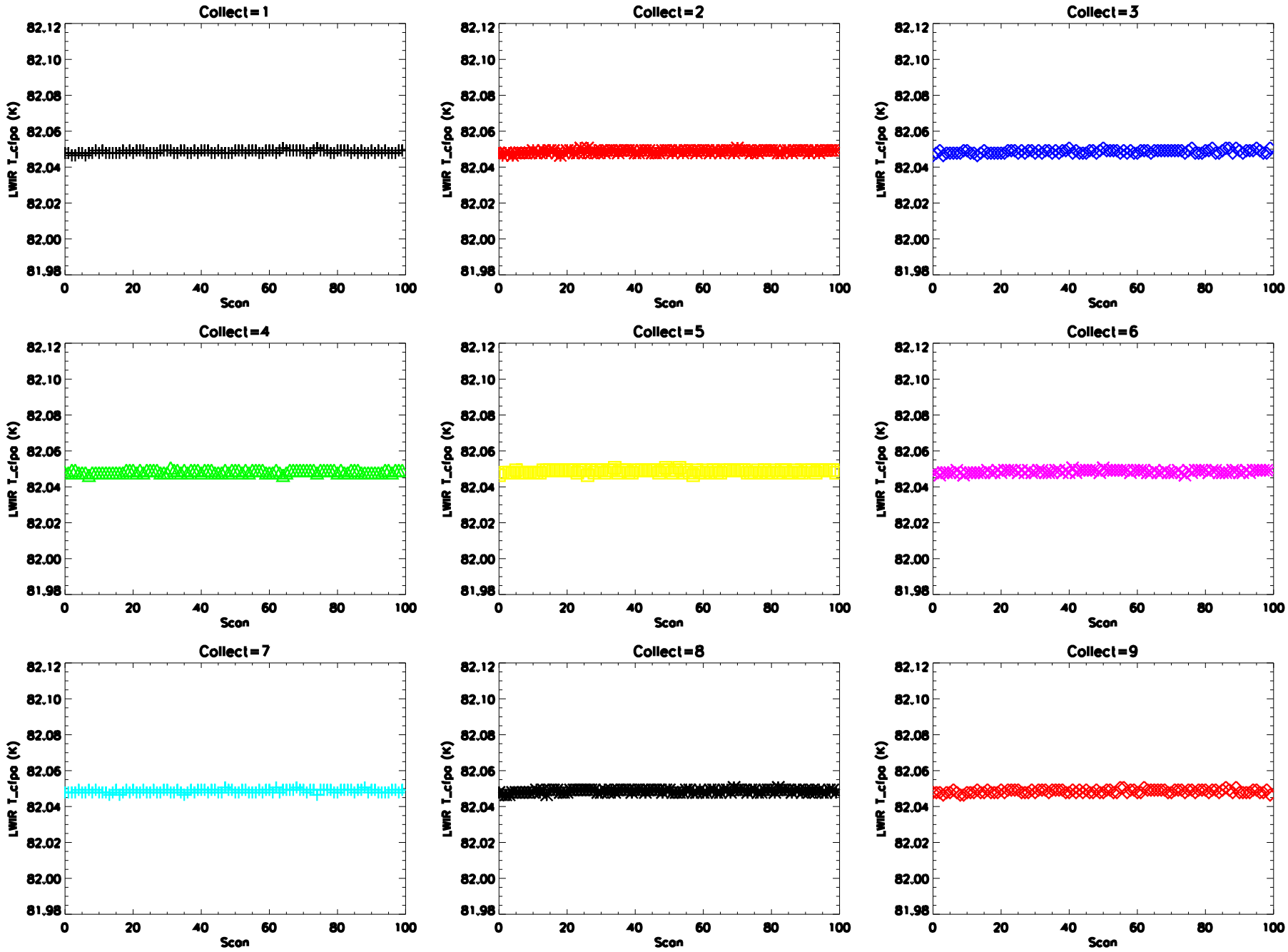

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100

SMWIR T_cfpa vs Scan

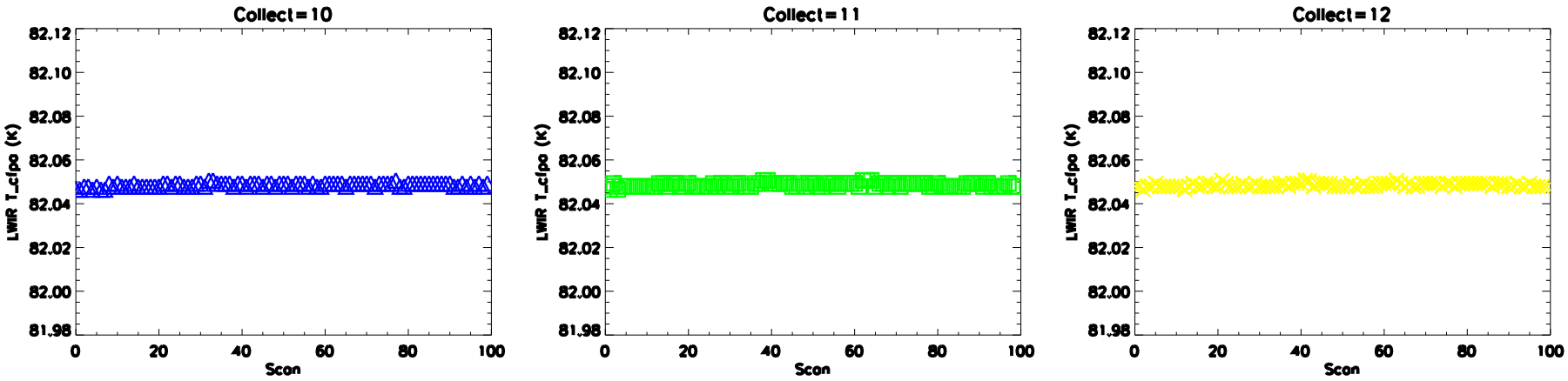


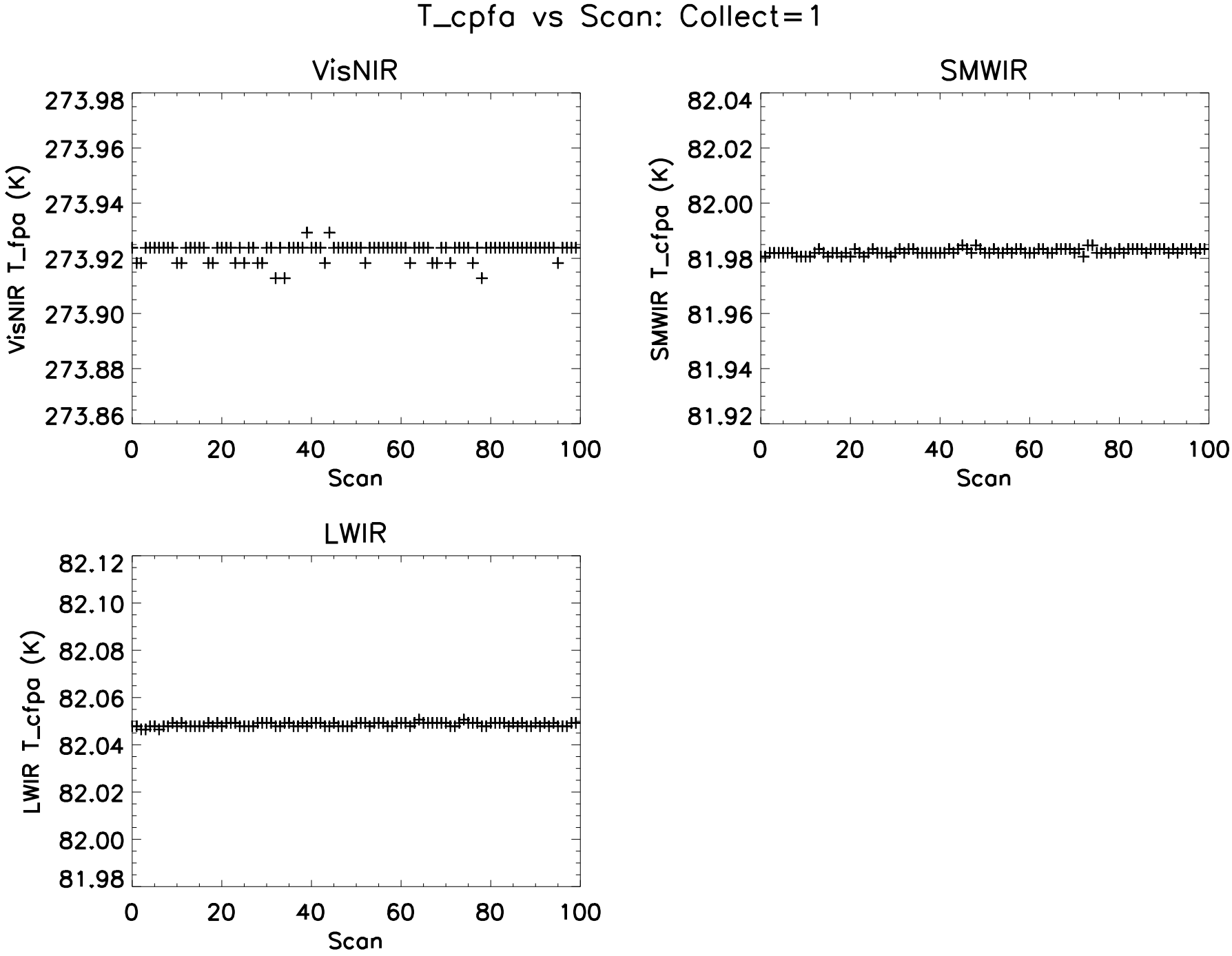

LWIR T_cfpa vs Scan and Collect
LWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
0
200
400
600
800
1000
1200
Collect*scan

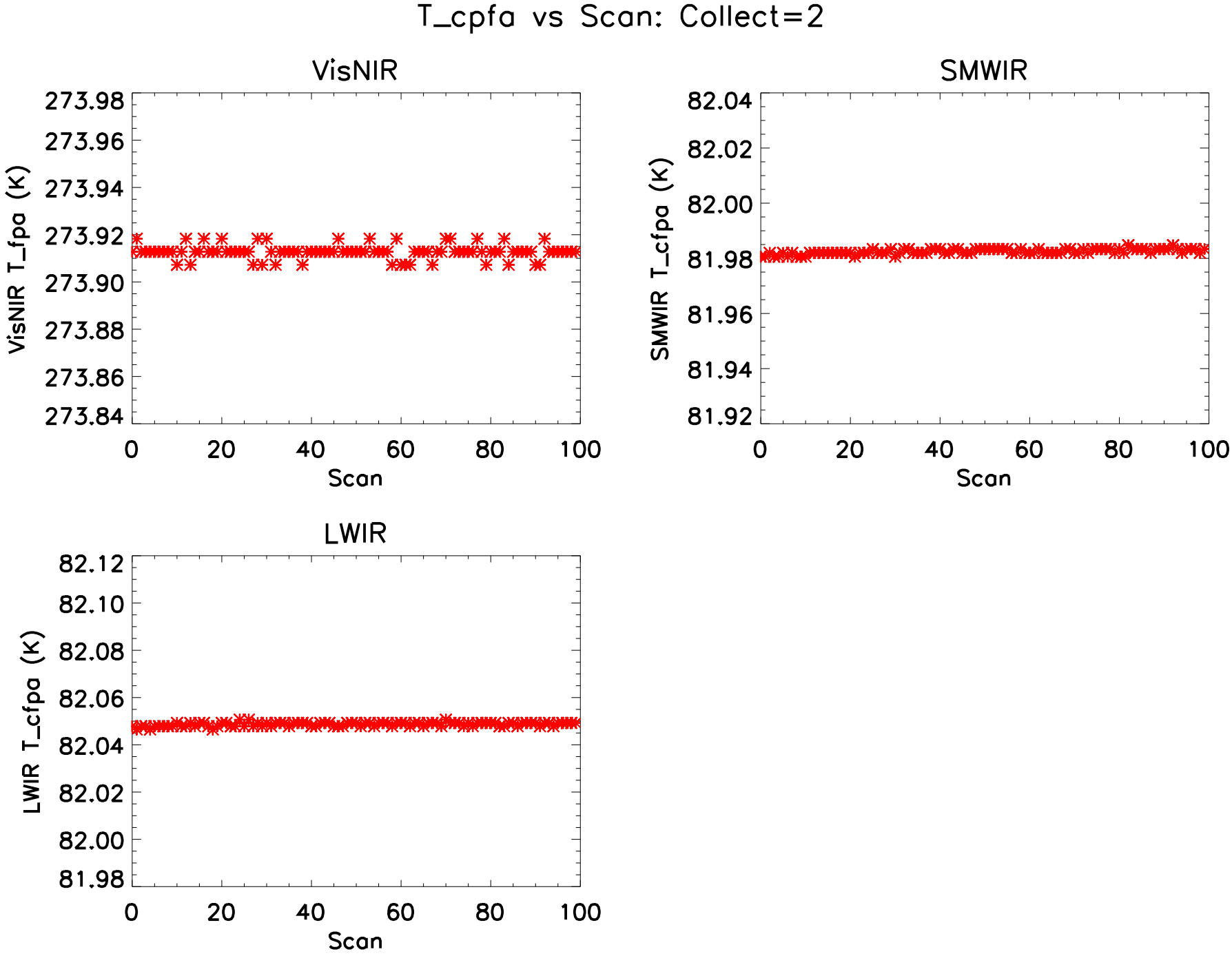

LWIR T_cfpa vs Time
82.6
82.4
82.2
82.0
81.8
81.6
81.4
LWIR T_cfpa (K)
−200
0
200
400
600
800
Time (min)

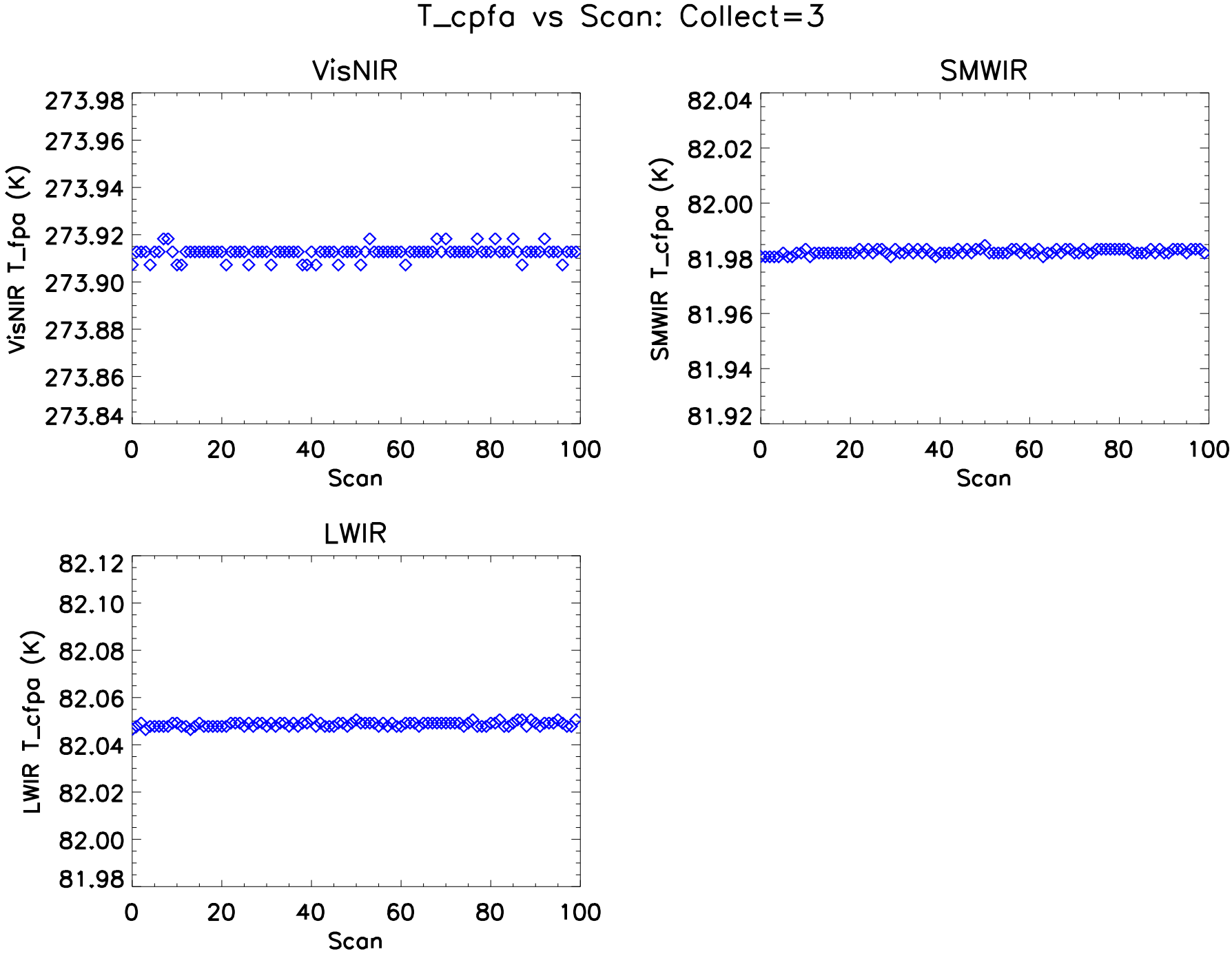

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_cfpa (K)
Scan
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100

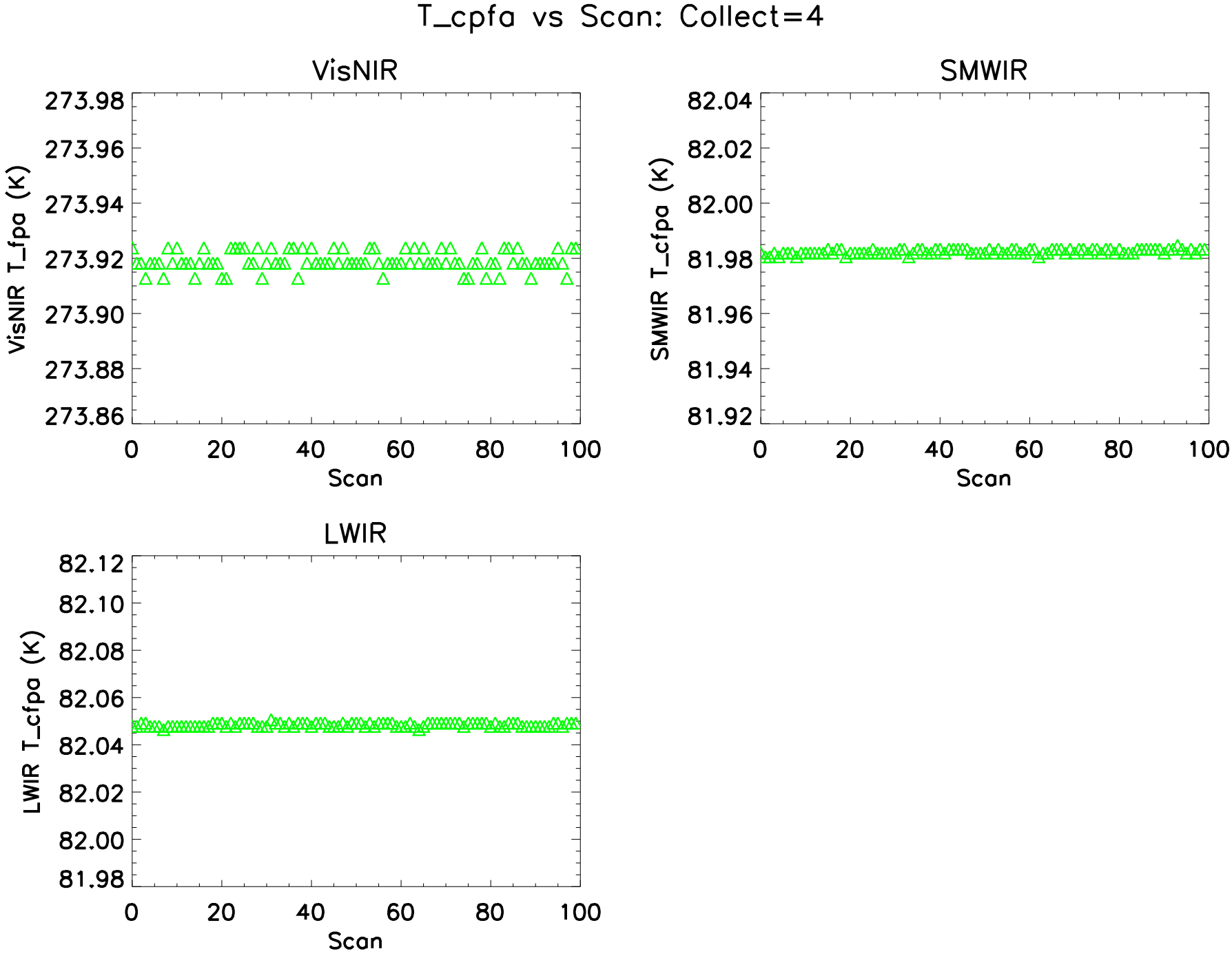
LWIR T_cfpa vs Scan

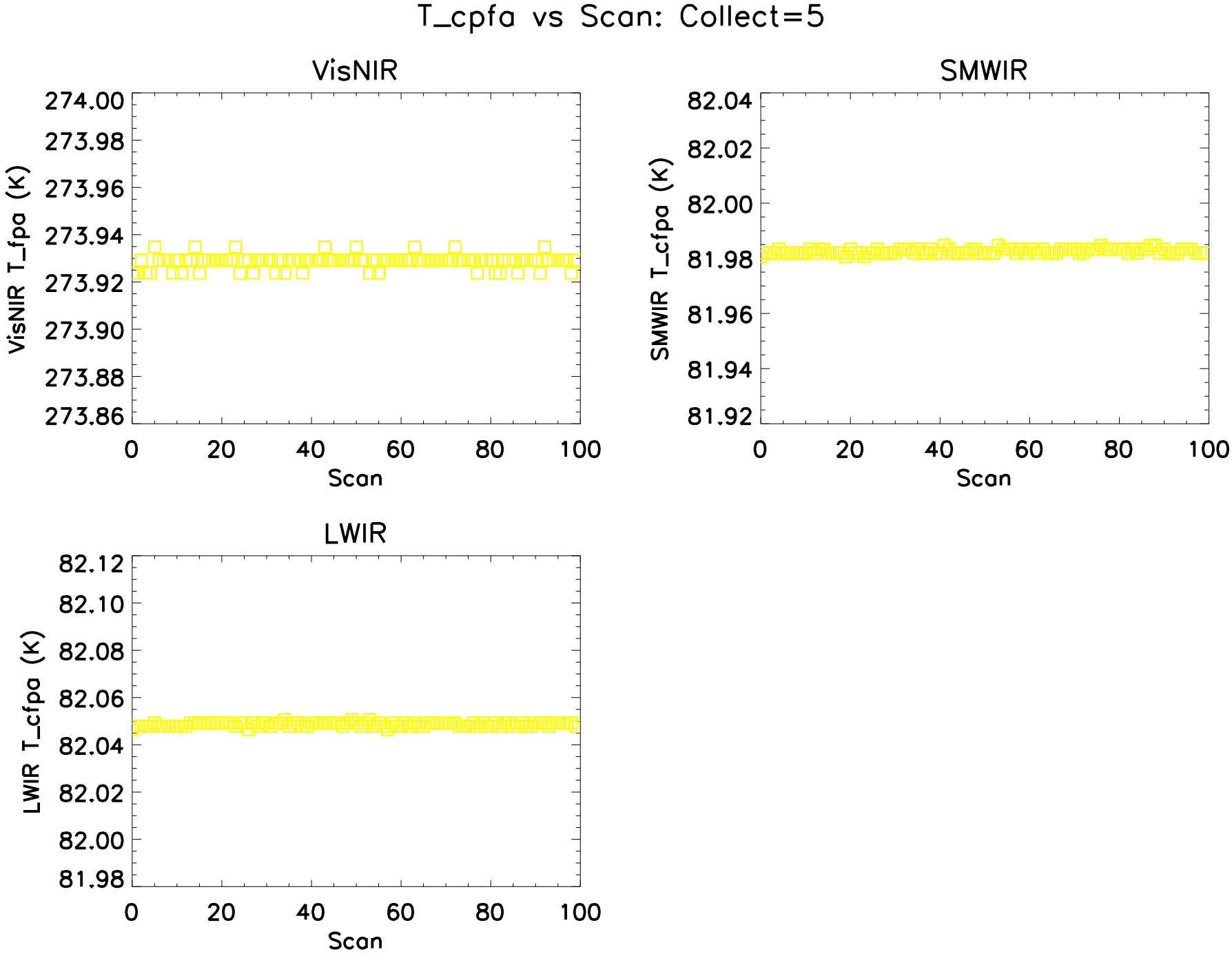


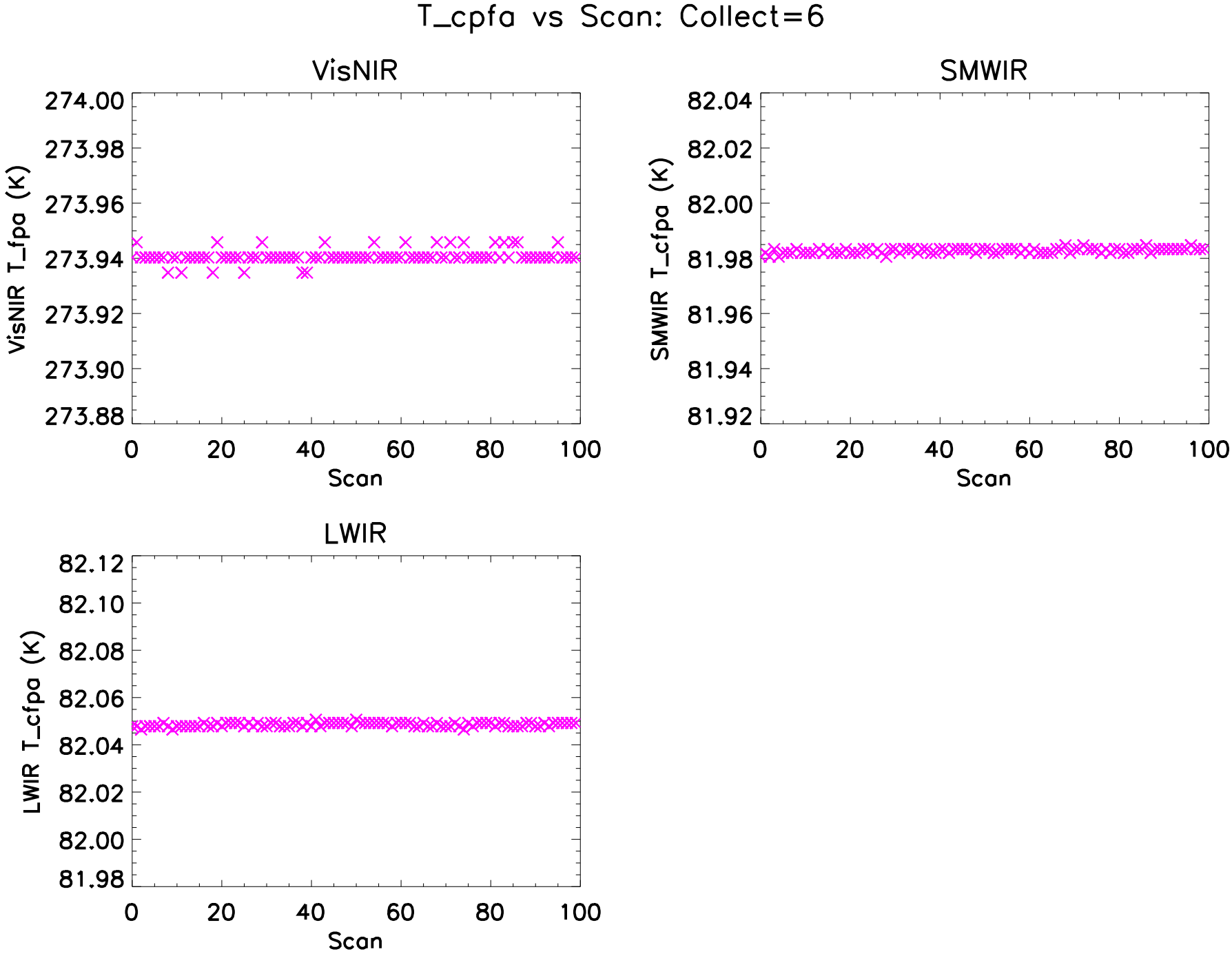

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
273.98
273.96
273.94
273.92
273.90
273.88
273.86
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

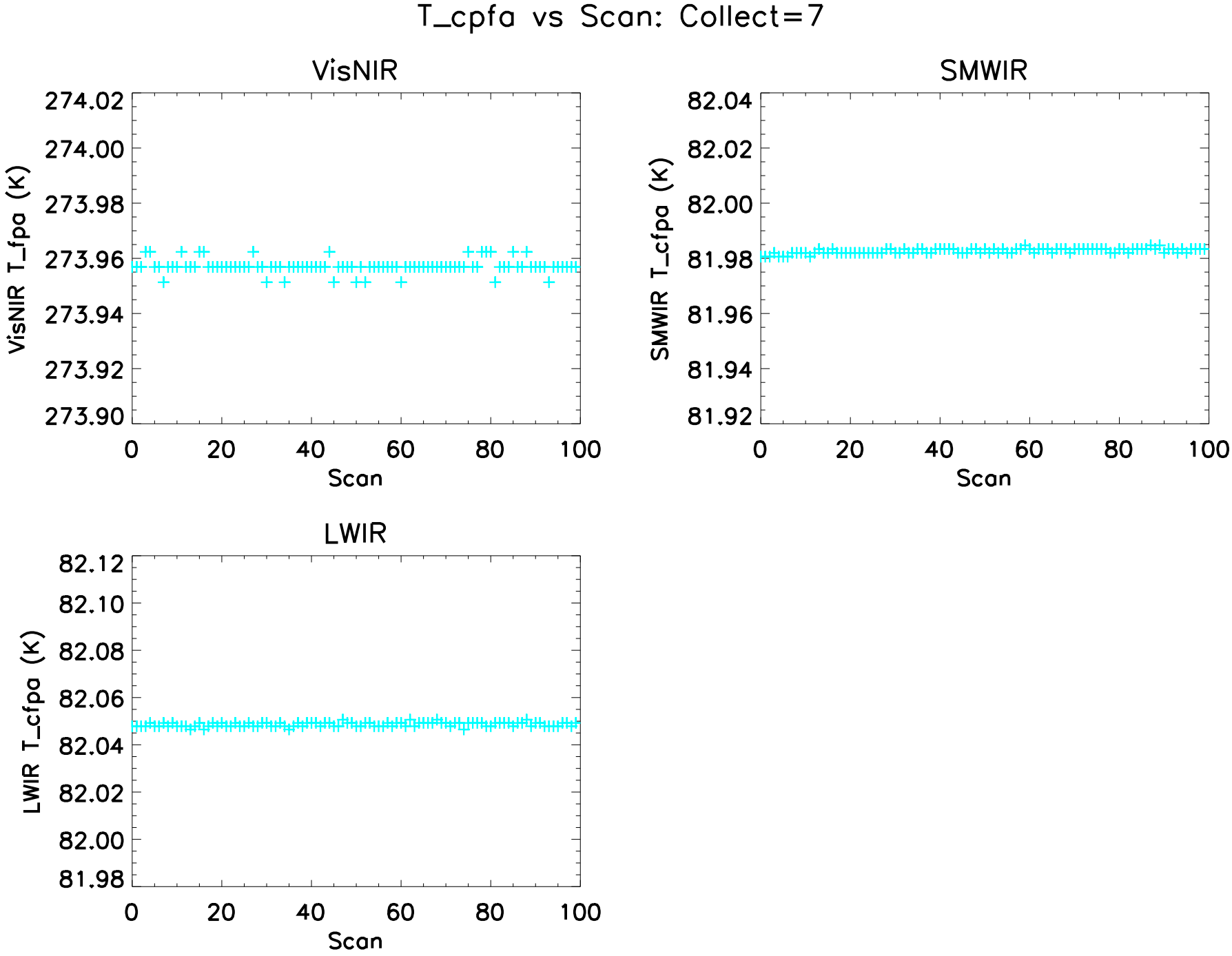

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
273.98
273.96
273.94
273.92
273.90
273.88
273.86
273.84
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

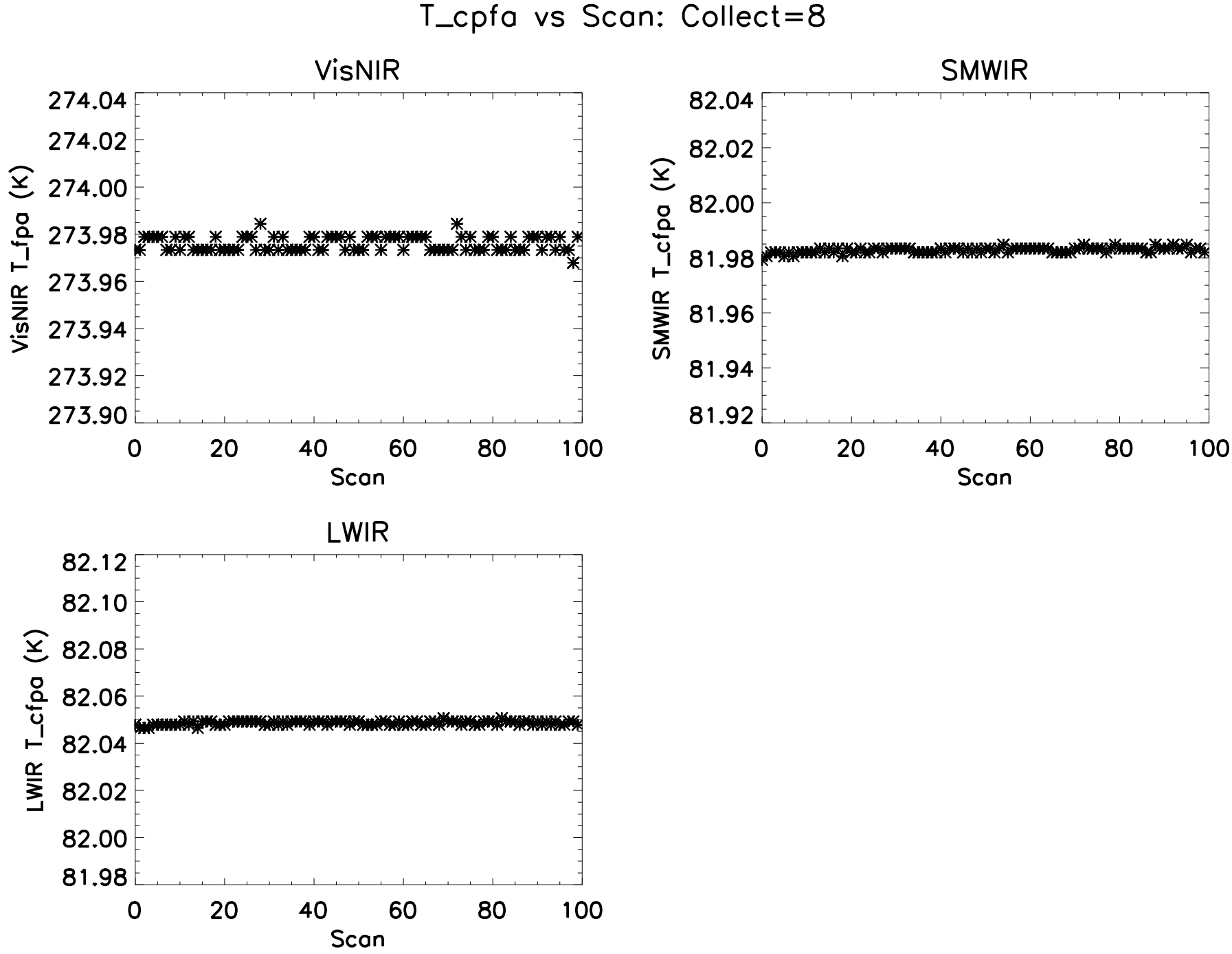

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
273.98
273.96
273.94
273.92
273.90
273.88
273.86
273.84
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

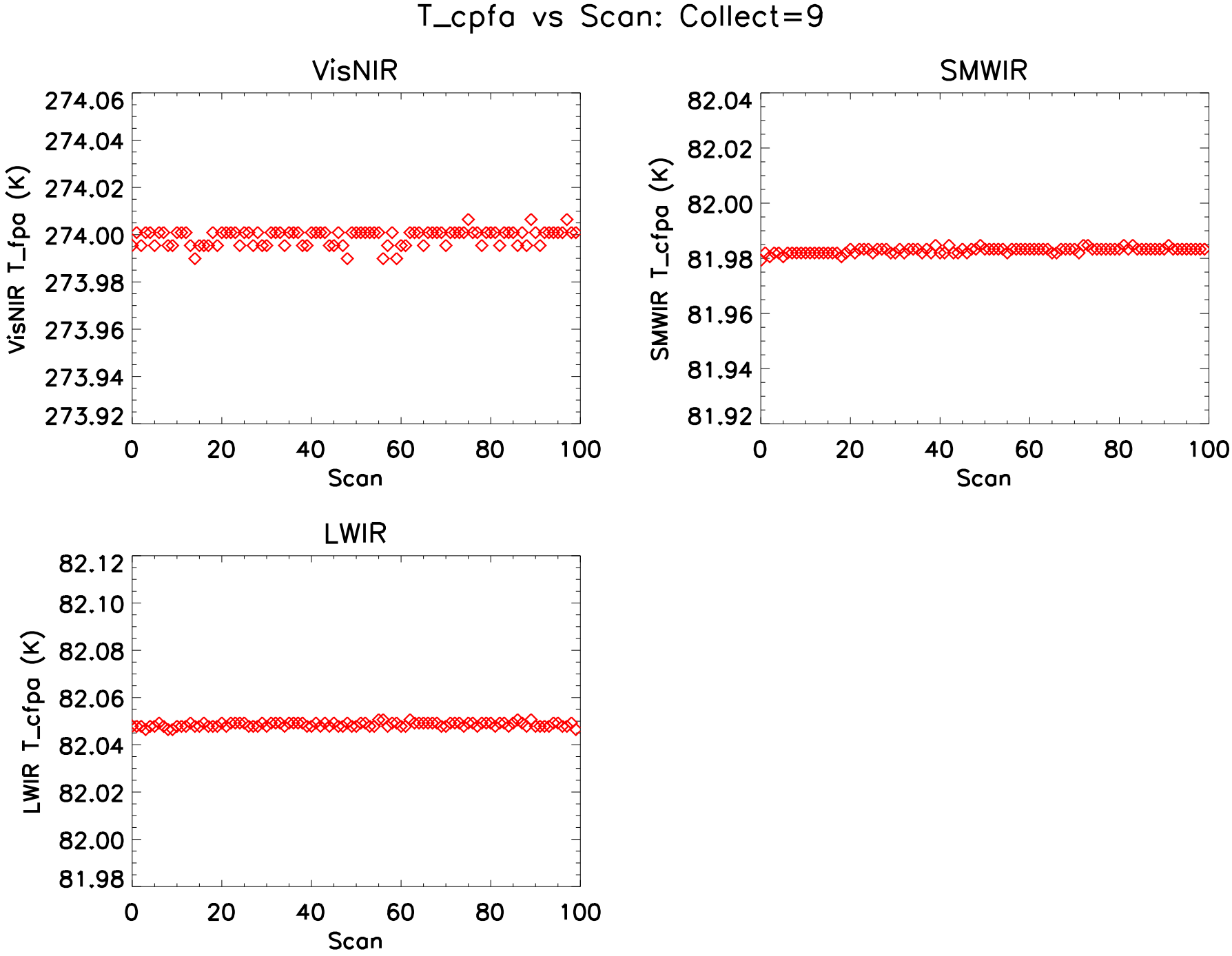

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
273.98
273.96
273.94
273.92
273.90
273.88
273.86
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

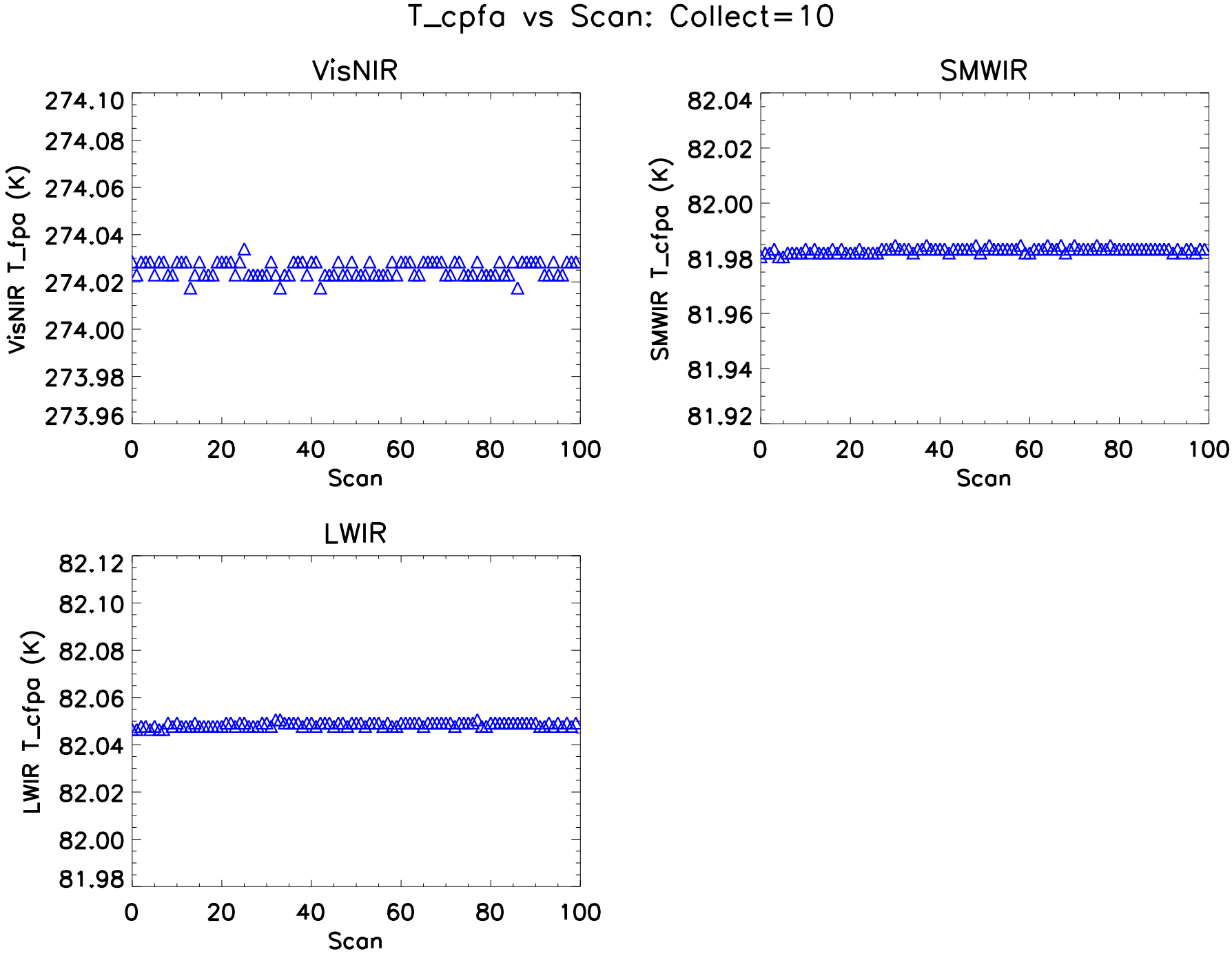

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
274.00
273.98
273.96
273.94
273.92
273.90
273.88
273.86
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

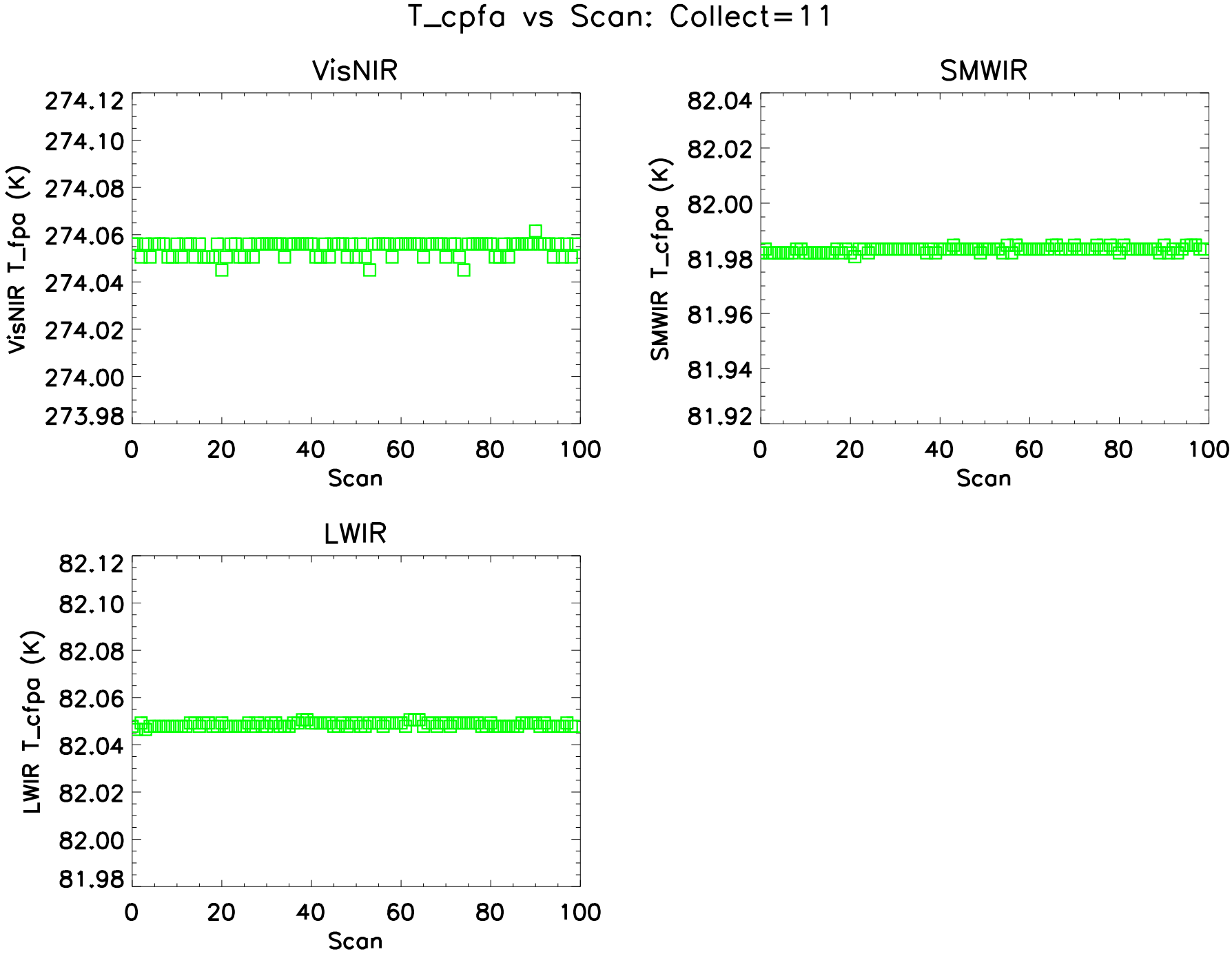

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
274.00
273.98
273.96
273.94
273.92
273.90
273.88
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

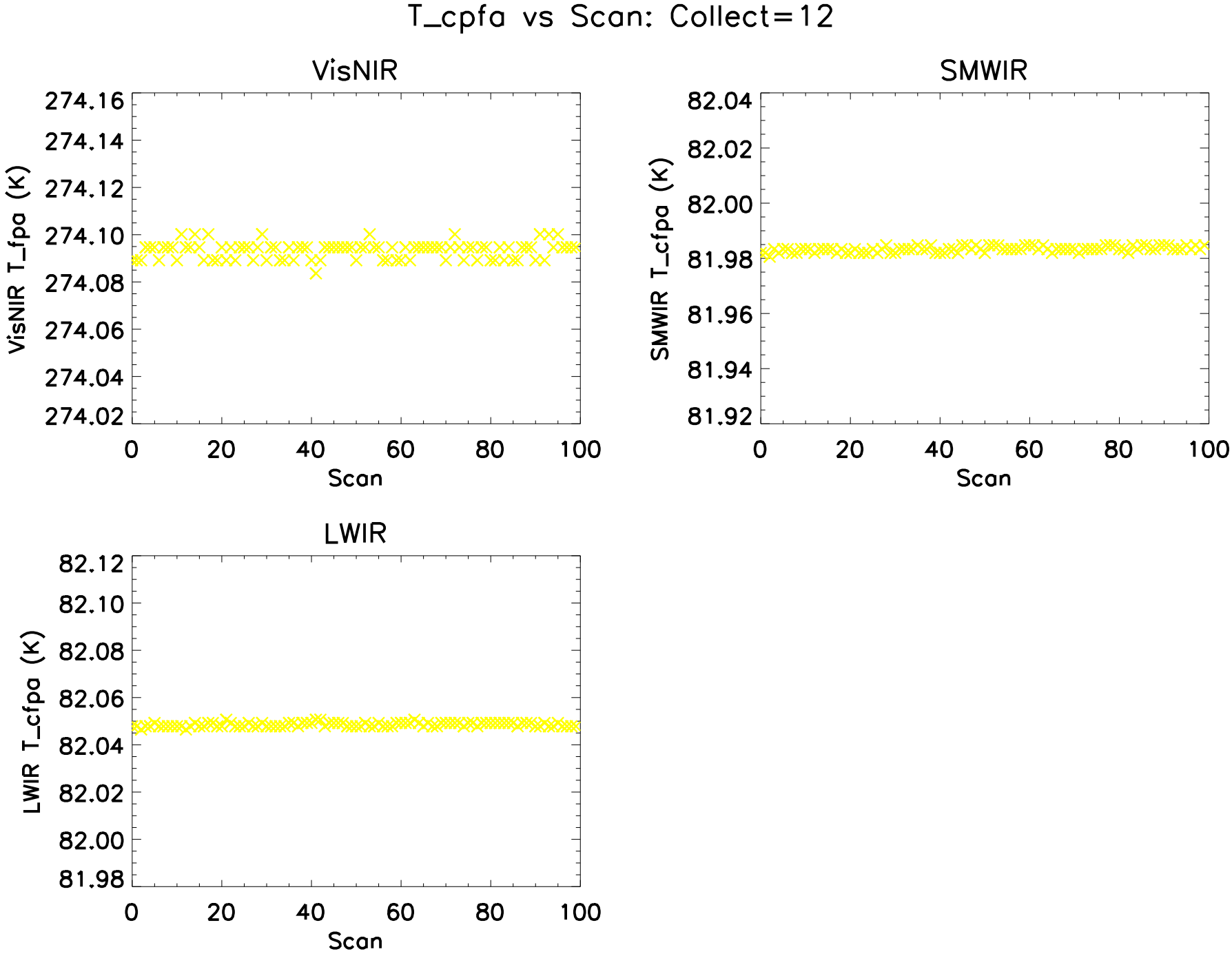

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
274.02
274.00
273.98
273.96
273.94
273.92
273.90
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

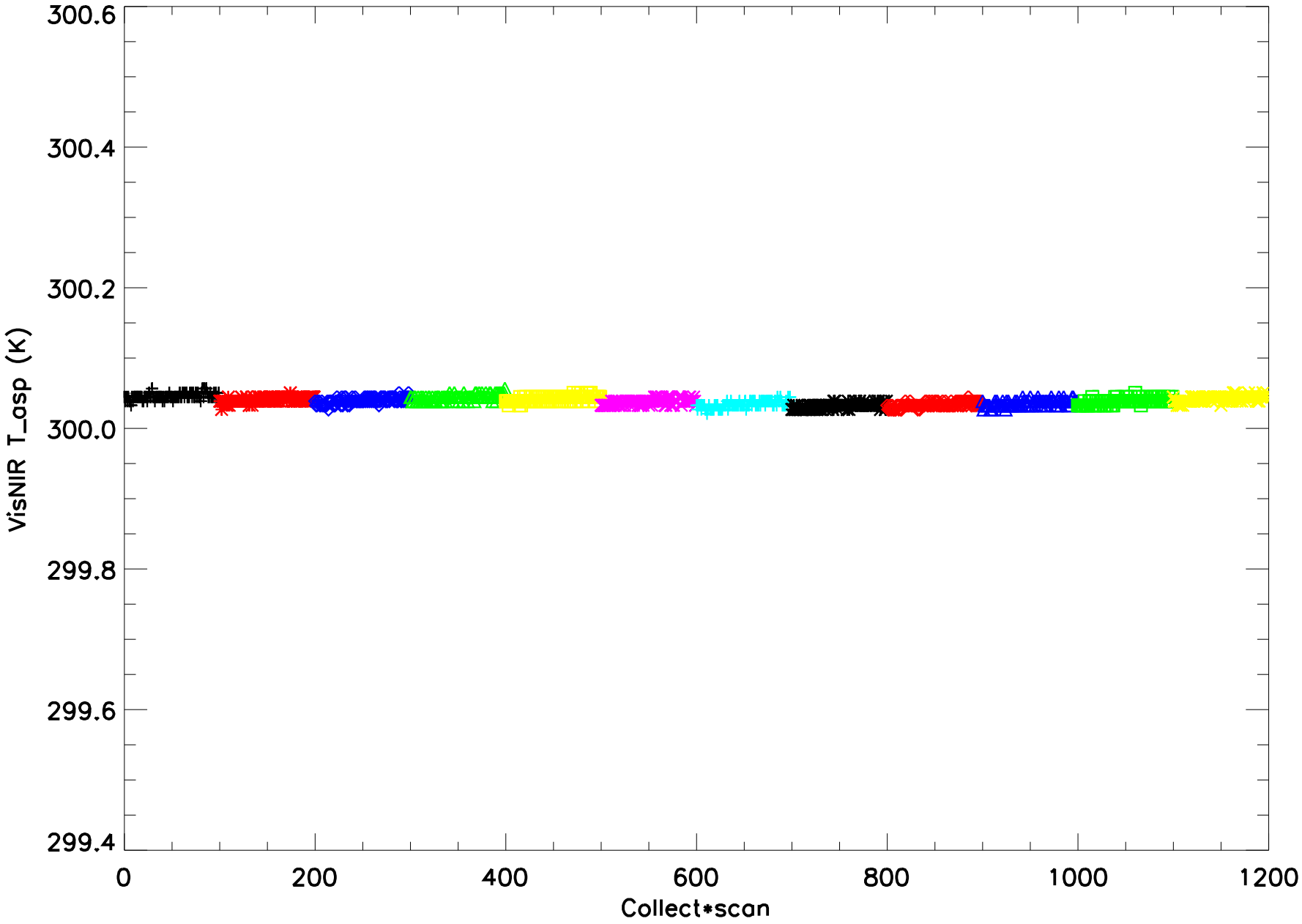

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
274.04
274.02
274.00
273.98
273.96
273.94
273.92
273.90
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

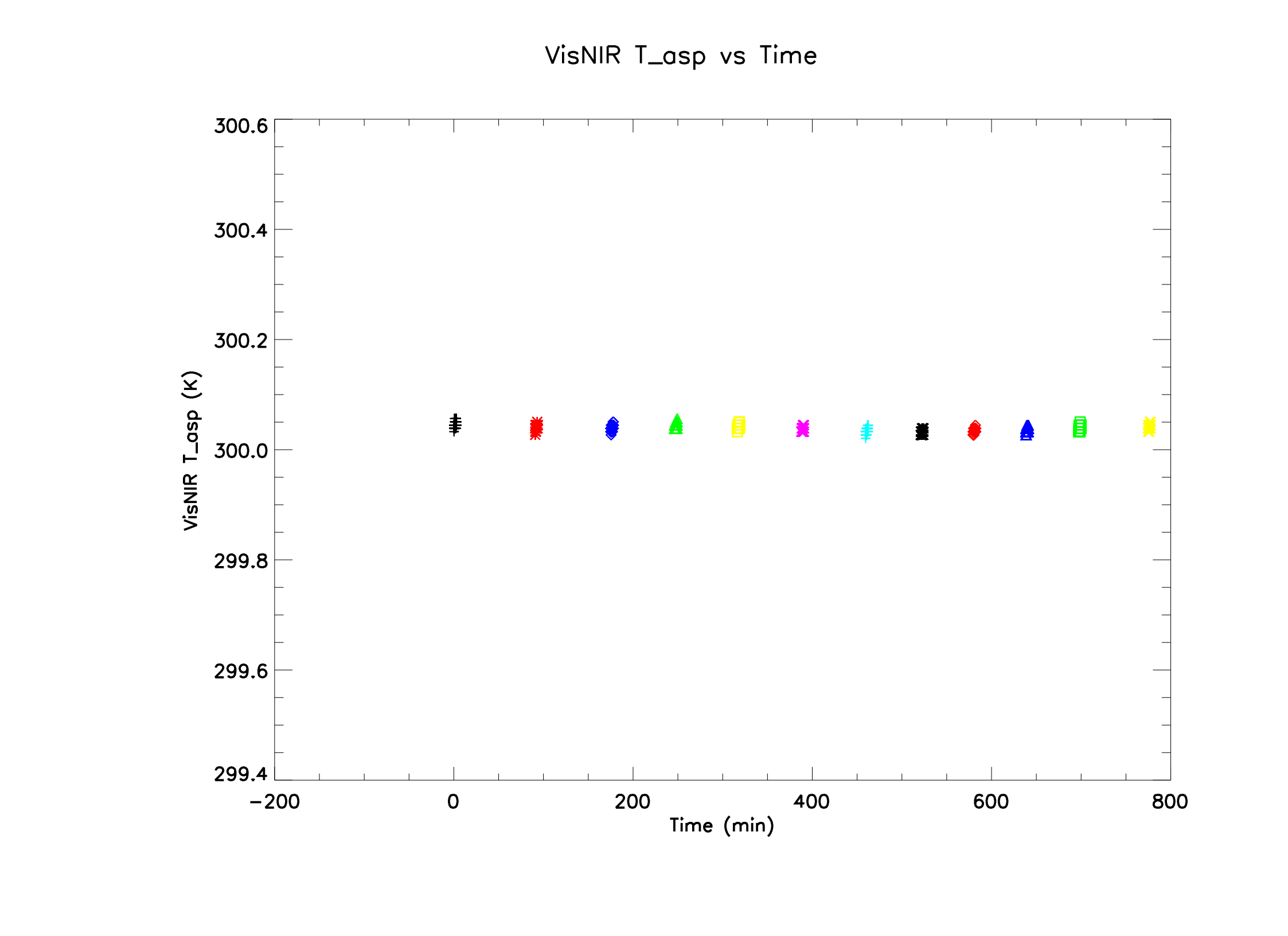

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
274.06
274.04
274.02
274.00
273.98
273.96
273.94
273.92
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

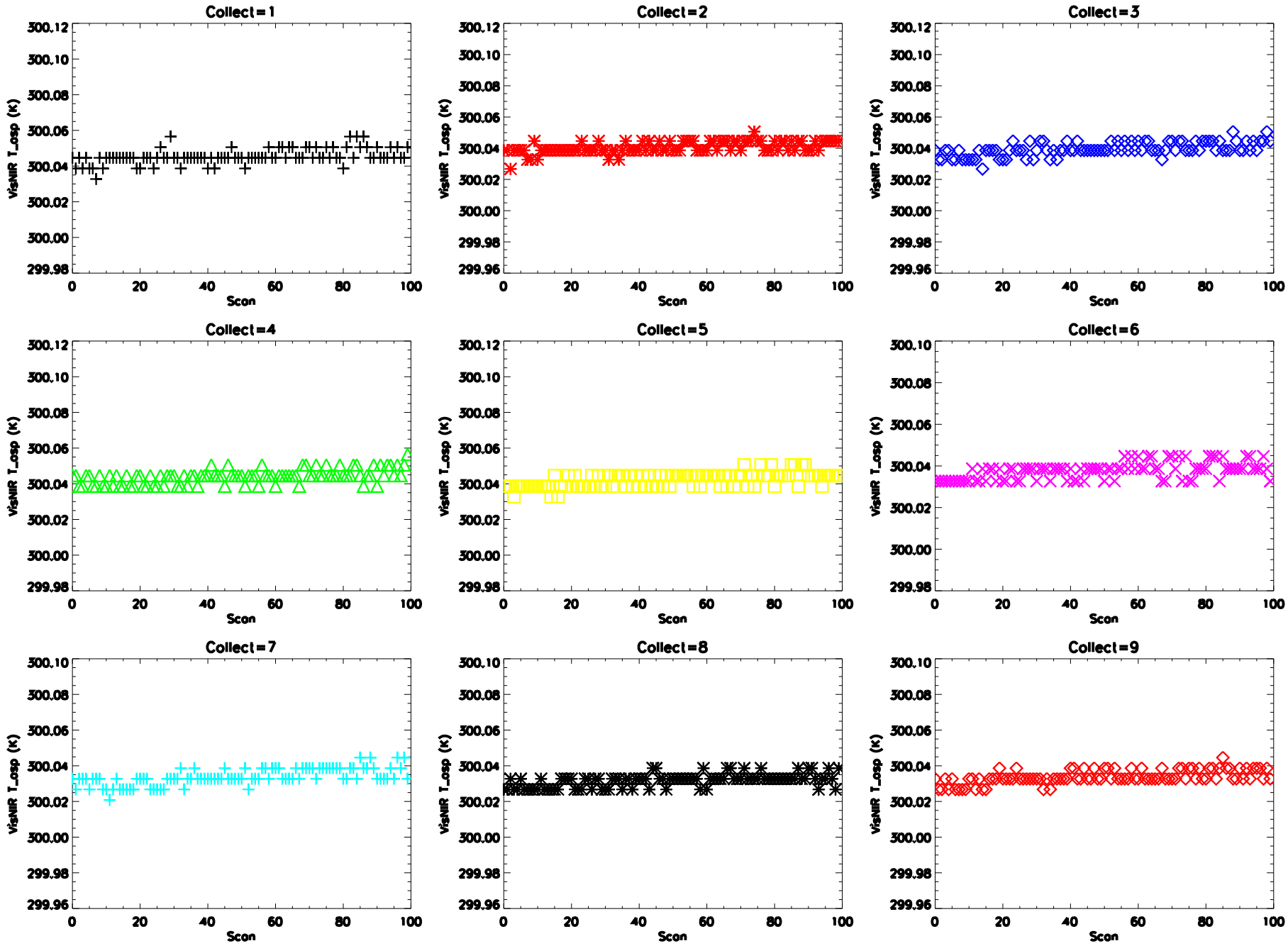

T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
274.10
274.08
274.06
274.04
274.02
274.00
273.98
273.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan


T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
274.12
274.10
274.08
274.06
274.04
274.02
274.00
273.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

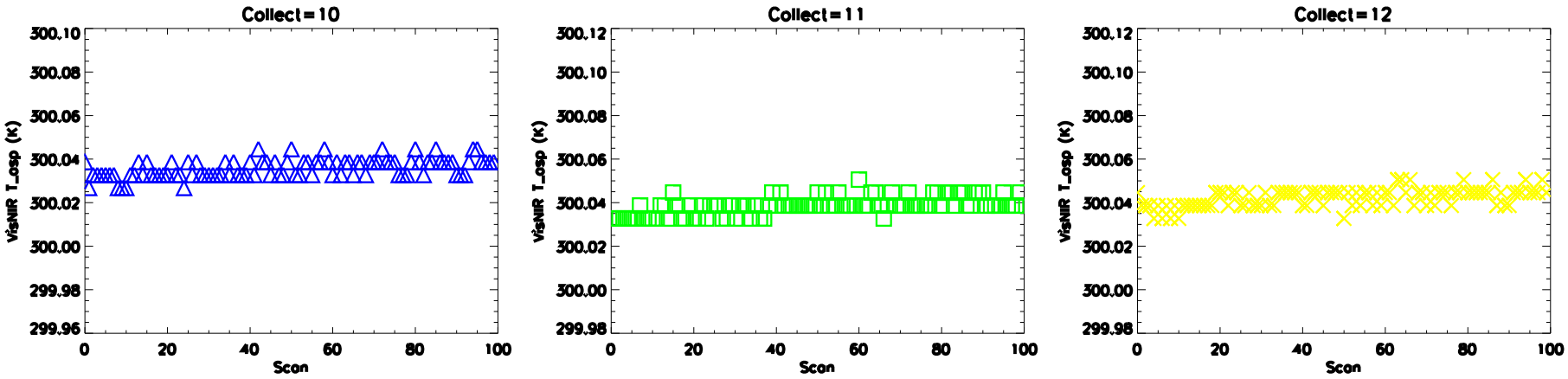

T_cpfa vs Scan: Collect=12
VisNIR
VisNIR T_fpa (K)
274.16
274.14
274.12
274.10
274.08
274.06
274.04
274.02
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.12
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

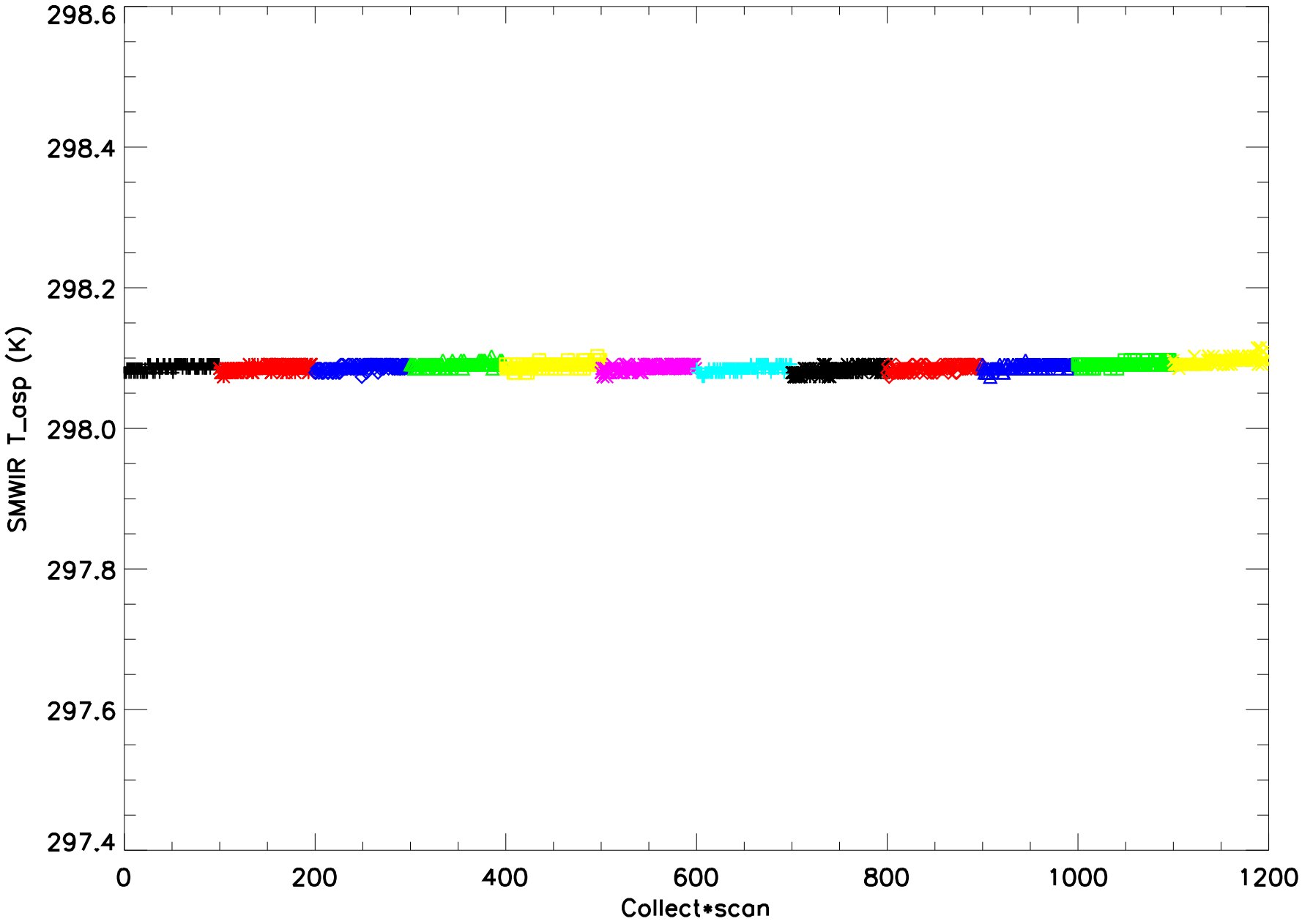

VisNIR T_asp vs Scan and Collect
VisNIR T_asp (K)
300.6
300.4
300.2
300.0
299.8
299.6
299.4
0
200
400
600
800
1000
1200
Collect*scan

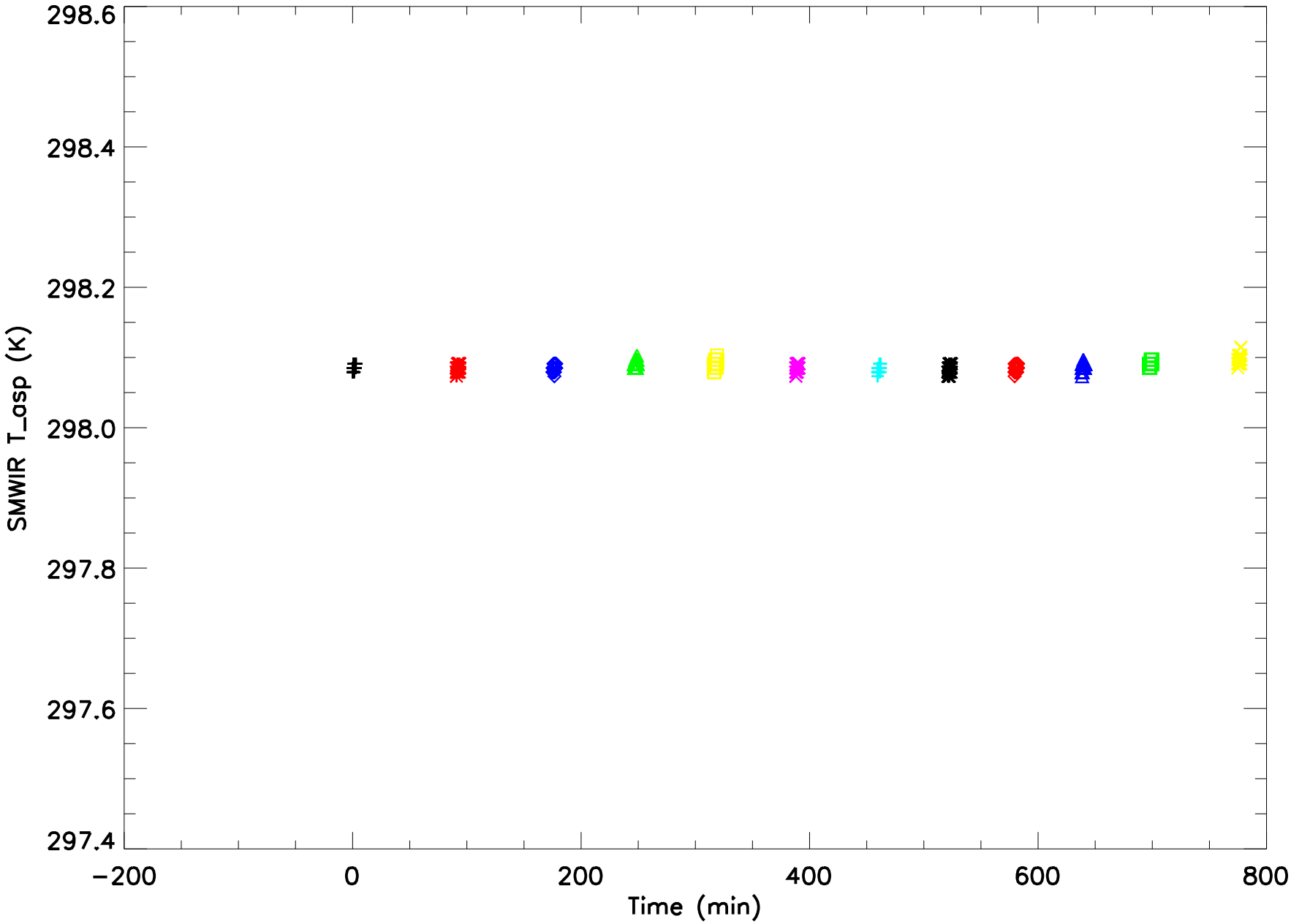

VisNIR T_asp vs Time
VisNIR T_asp (K)
300.6
300.4
300.2
300.0
299.8
299.6
299.4
−200
0
200
400
600
800
Time (min)

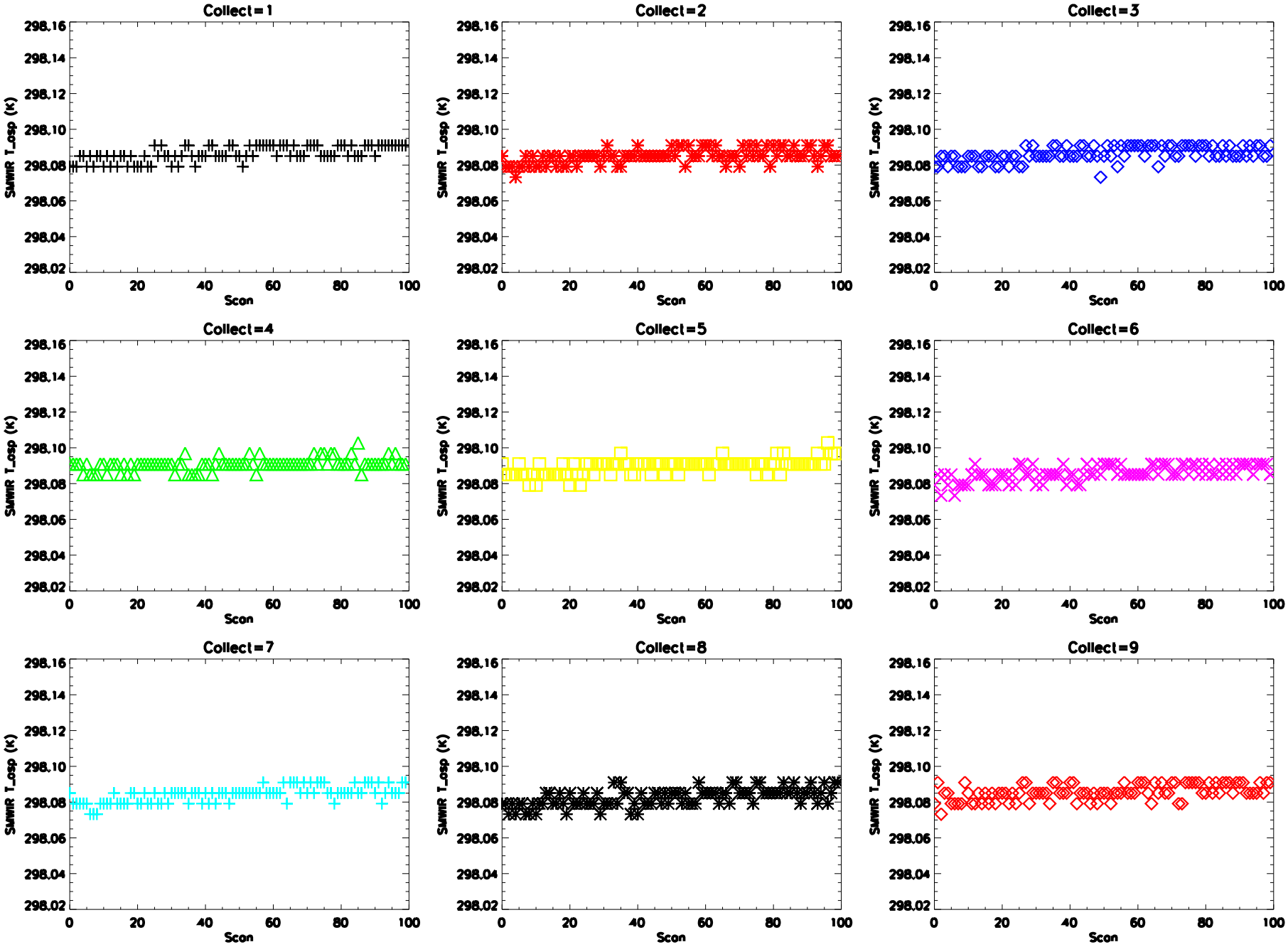

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_osp (K)
Scan

VisNIR T_asp vs Scan

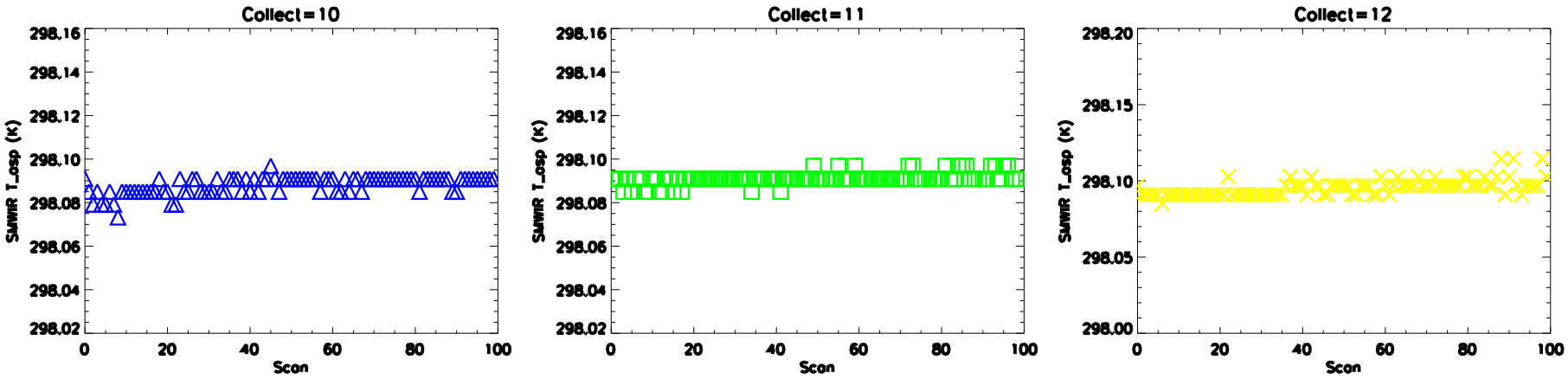


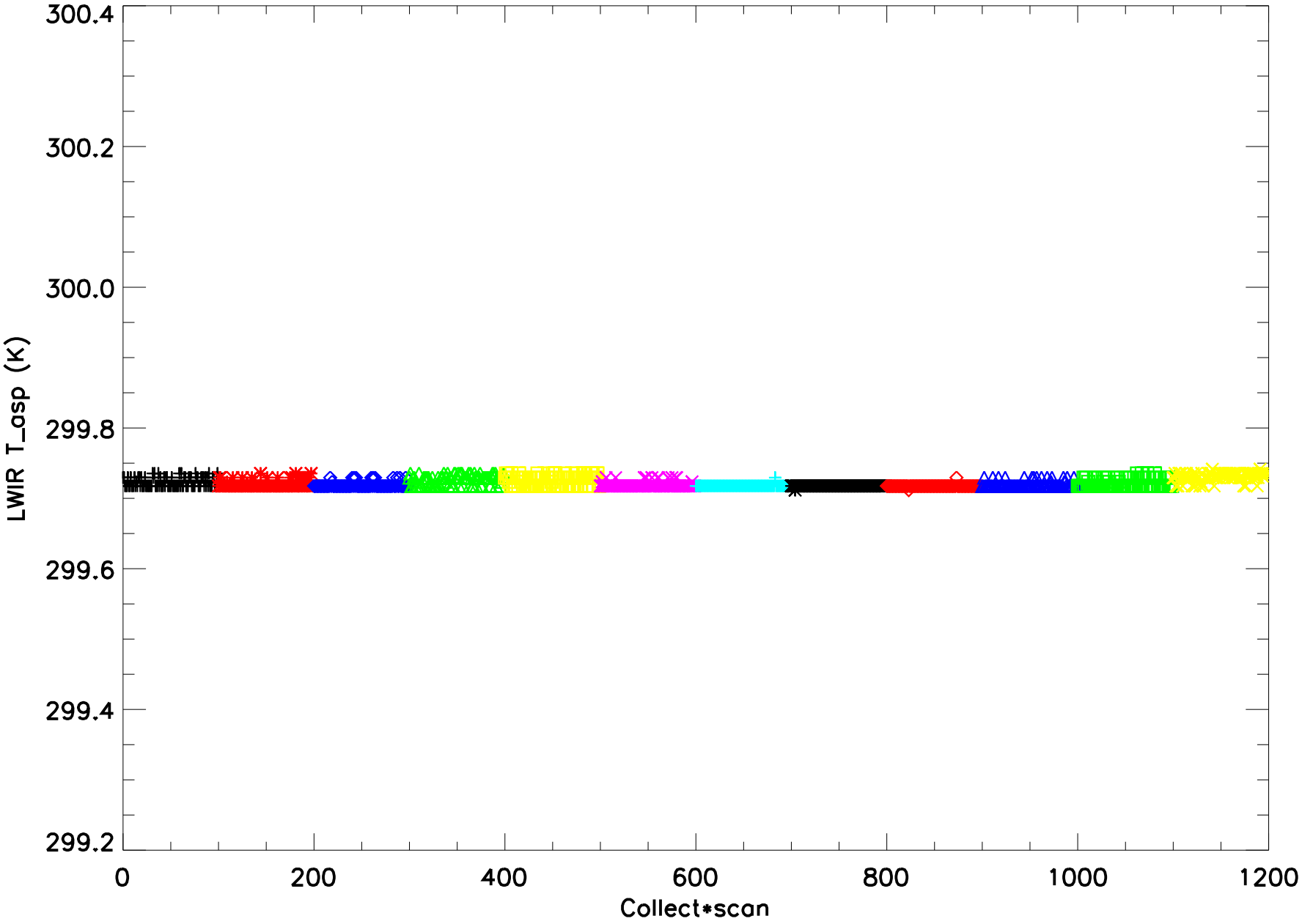

SMWIR T_asp vs Scan and Collect
298.6
298.4
298.2
298.0
297.8
297.6
297.4
SMWIR T_asp (K)
0
200
400
600
800
1000
1200
Collect*scan

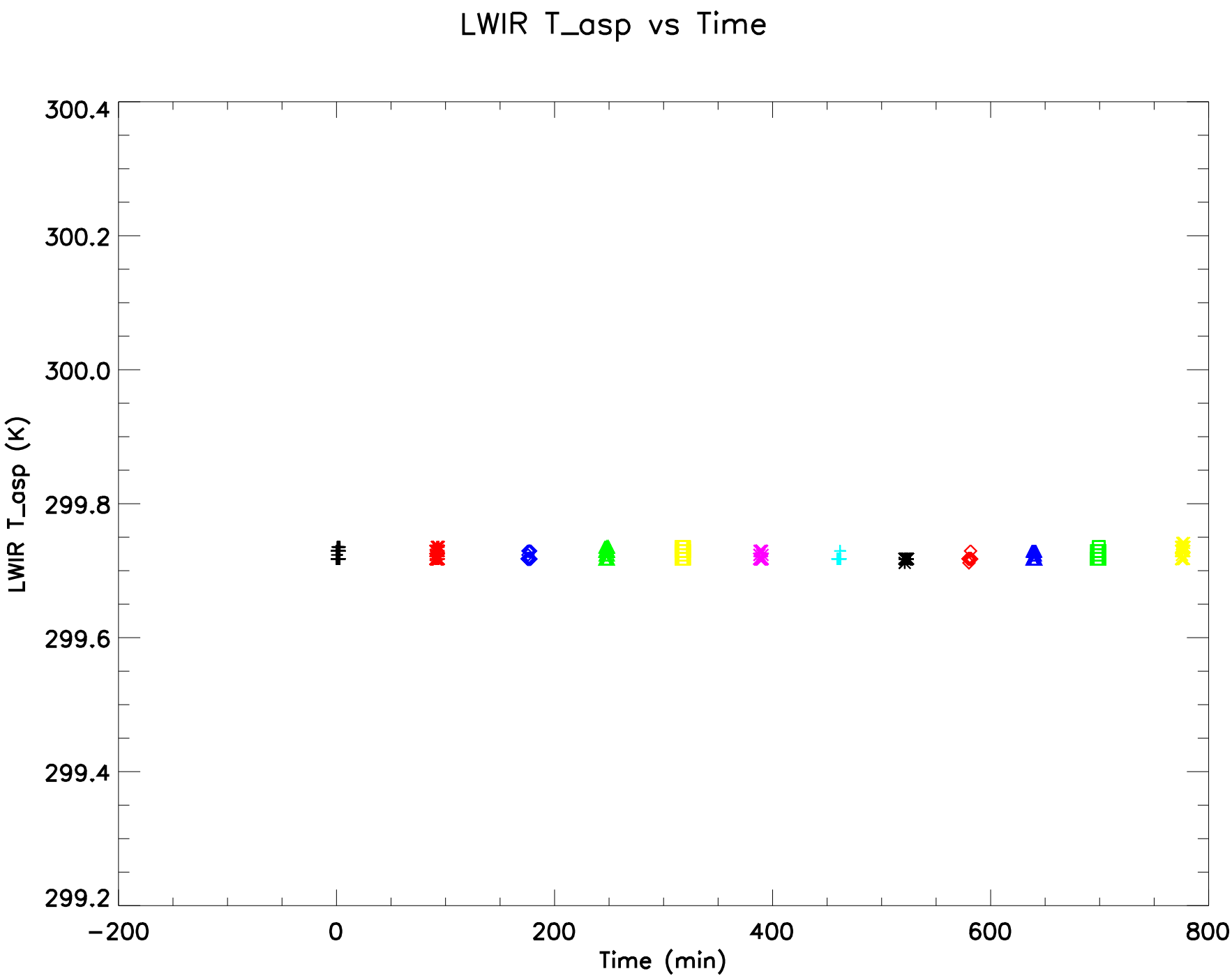

SMWIR T_asp vs Time
SMWIR T_asp (K)
298.6
298.4
298.2
298.0
297.8
297.6
297.4
−200
0
200
400
600
800
Time (min)

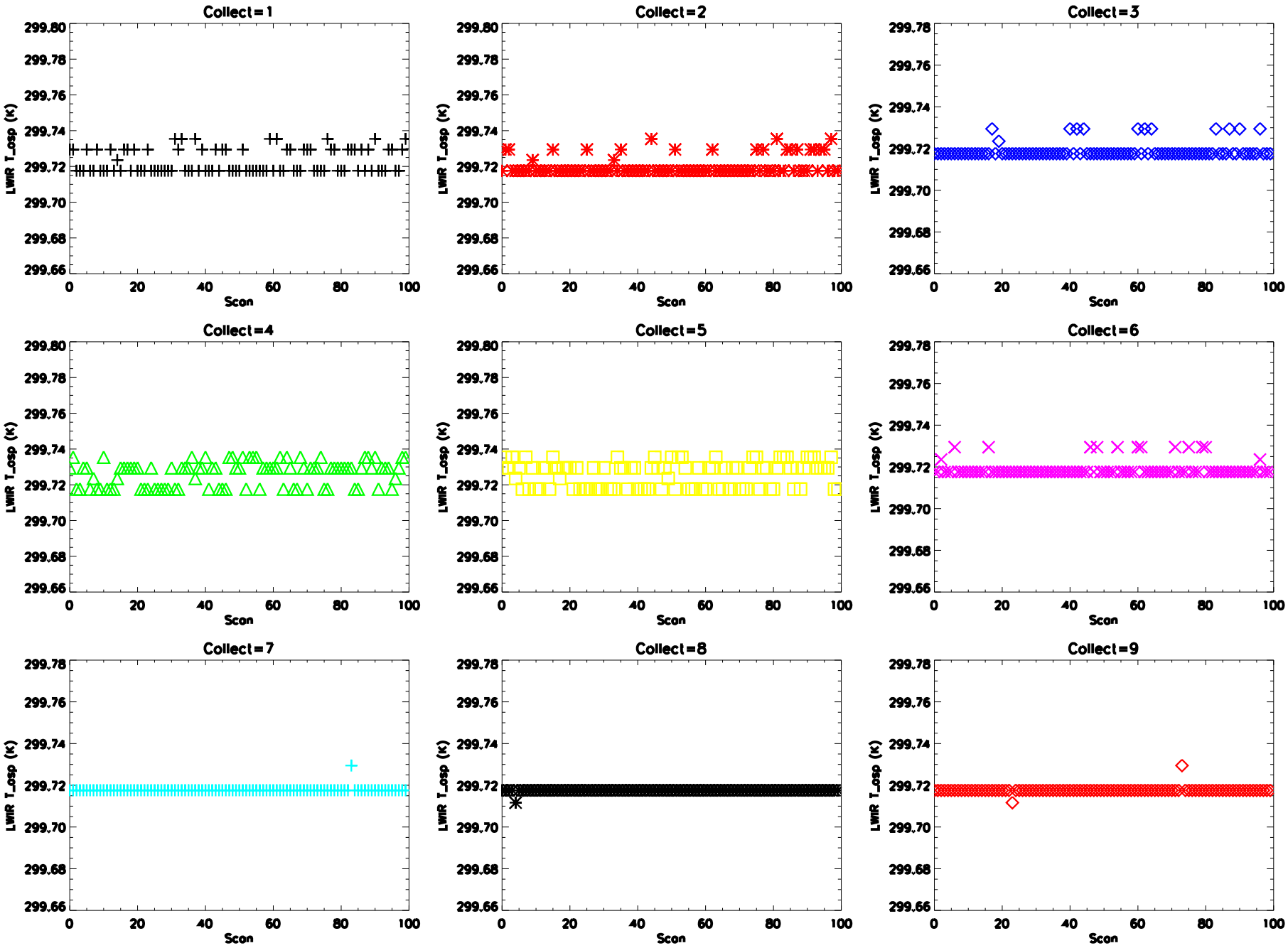

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMMR T_osp (K)
Scan
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100

SMWIR T_asp vs Scan

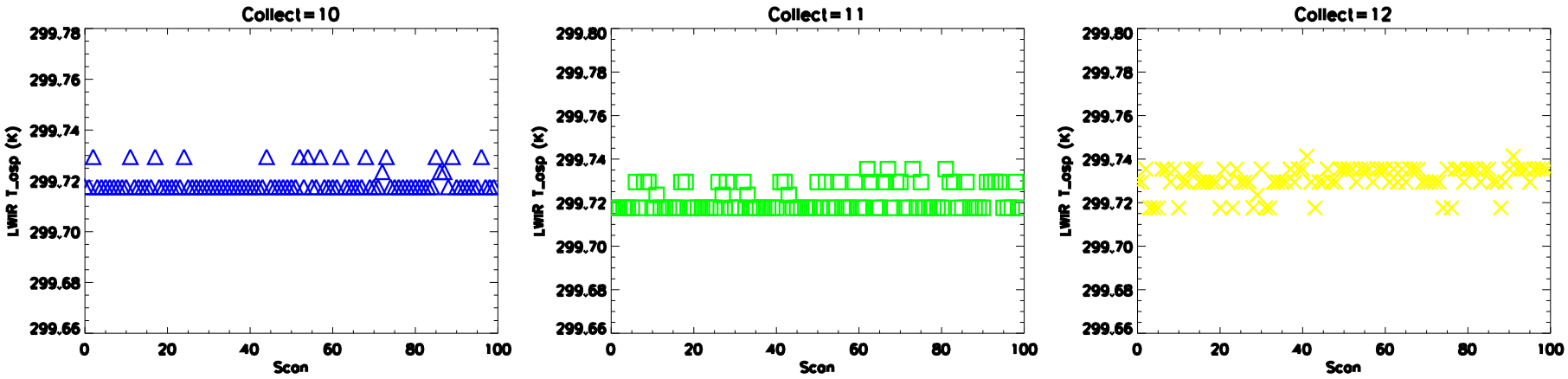


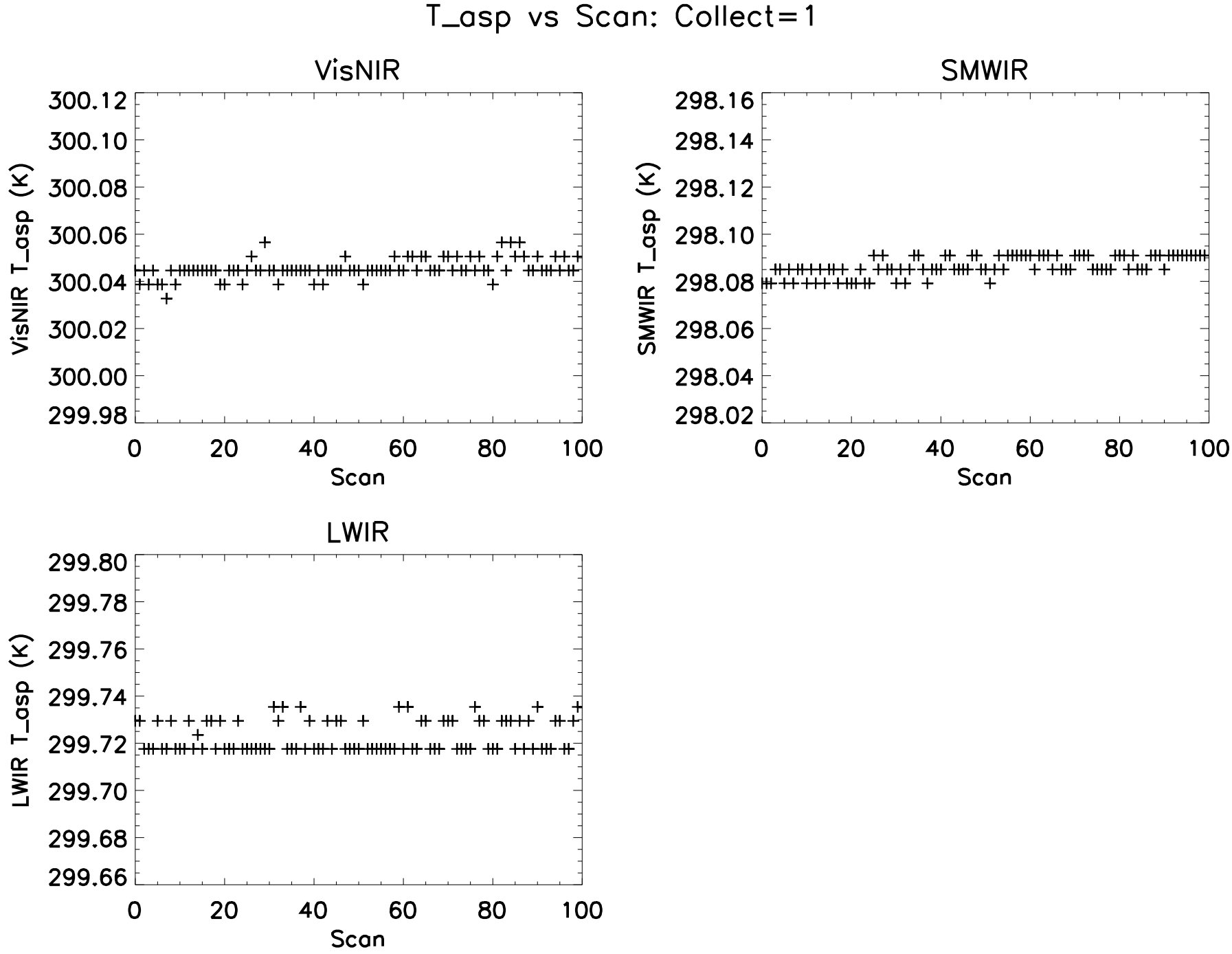

LWIR T_asp vs Scan and Collect
LWIR T_asp (K)
300.4
300.2
300.0
299.8
299.6
299.4
299.2
0
200
400
600
800
1000
1200
Collect*scan

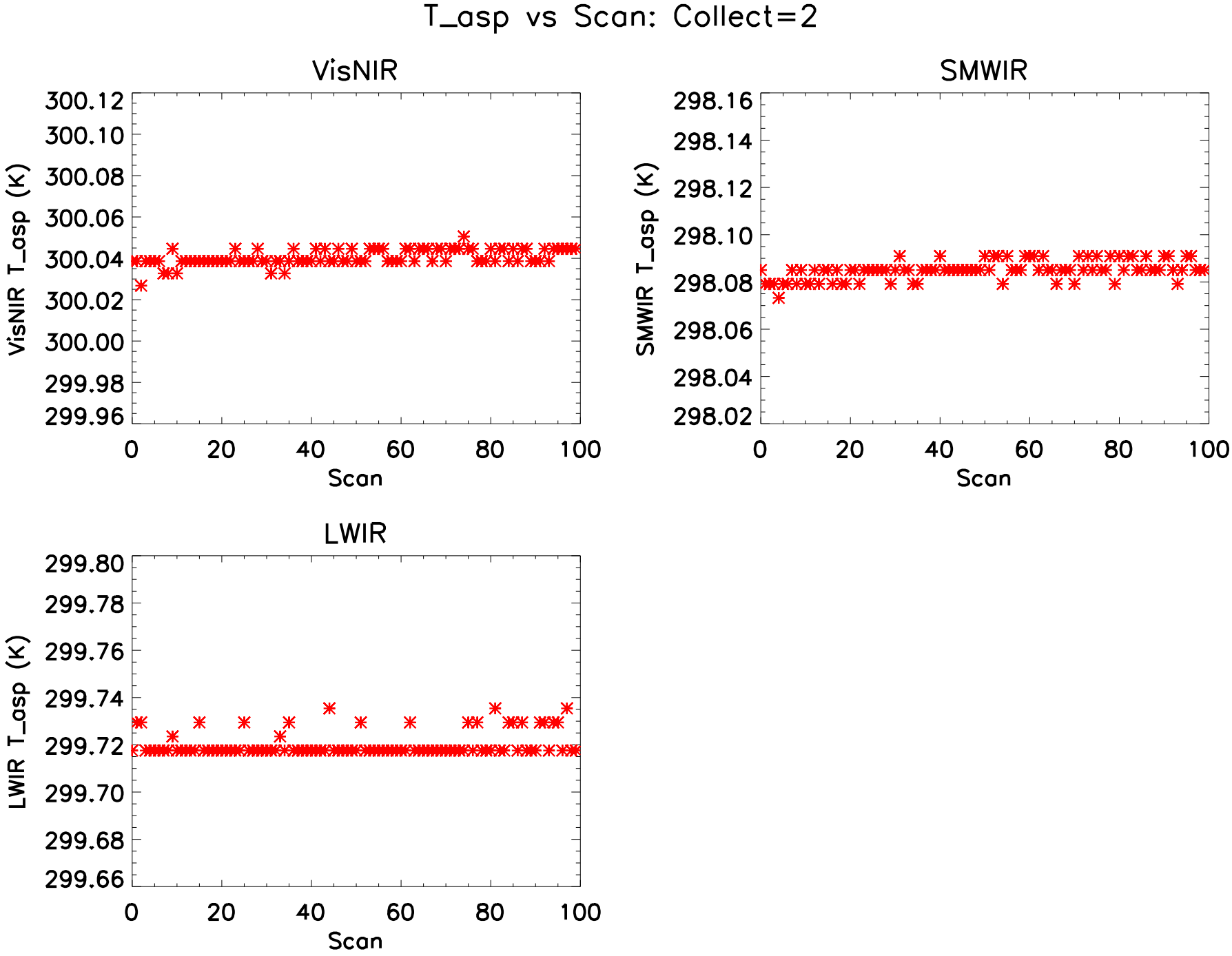

LWIR T_asp vs Time
LWIR T_asp (K)
300.4
300.2
300.0
299.8
299.6
299.4
299.2
−200
0
200
400
600
800
Time (min)

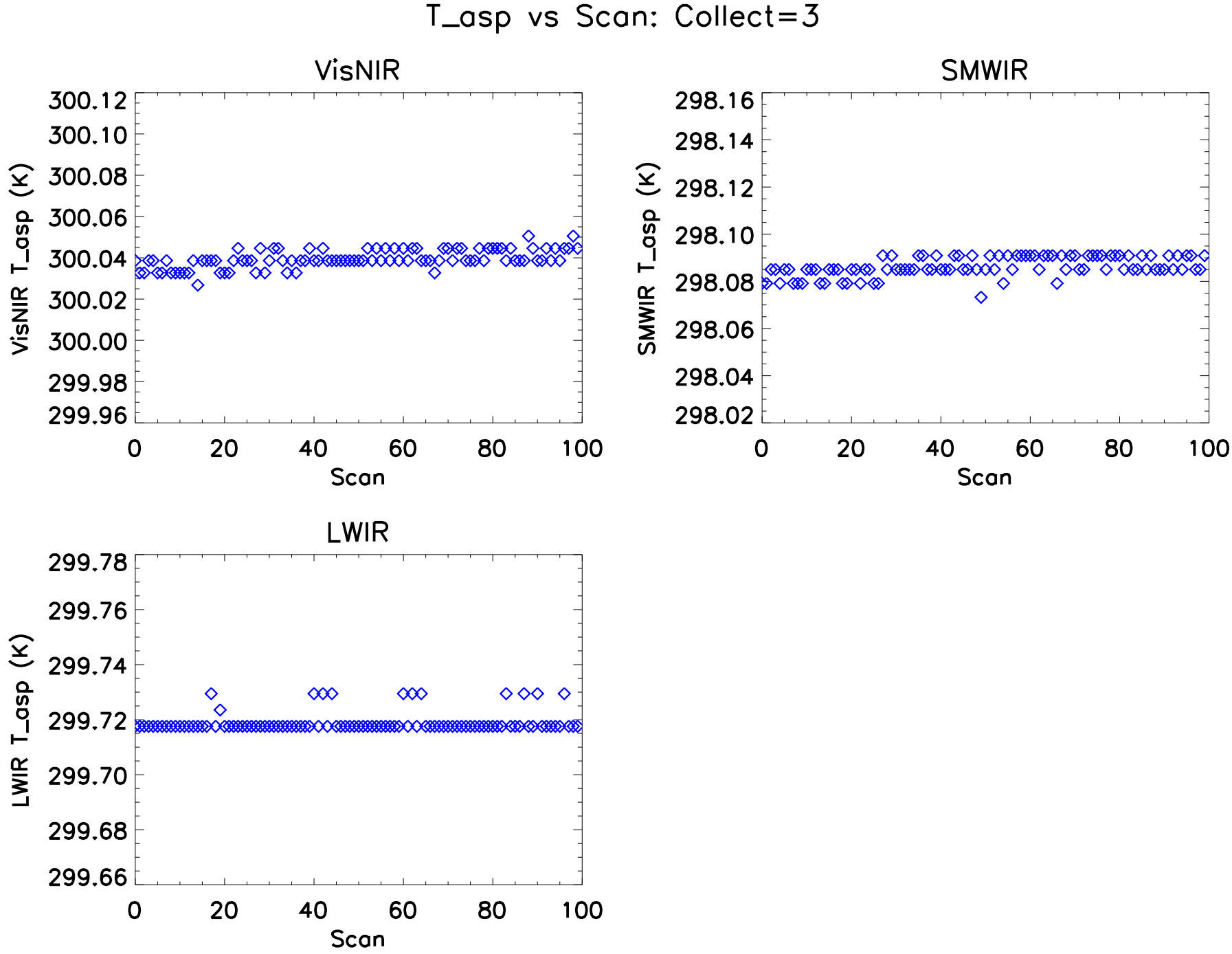

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_osp (K)
Scan

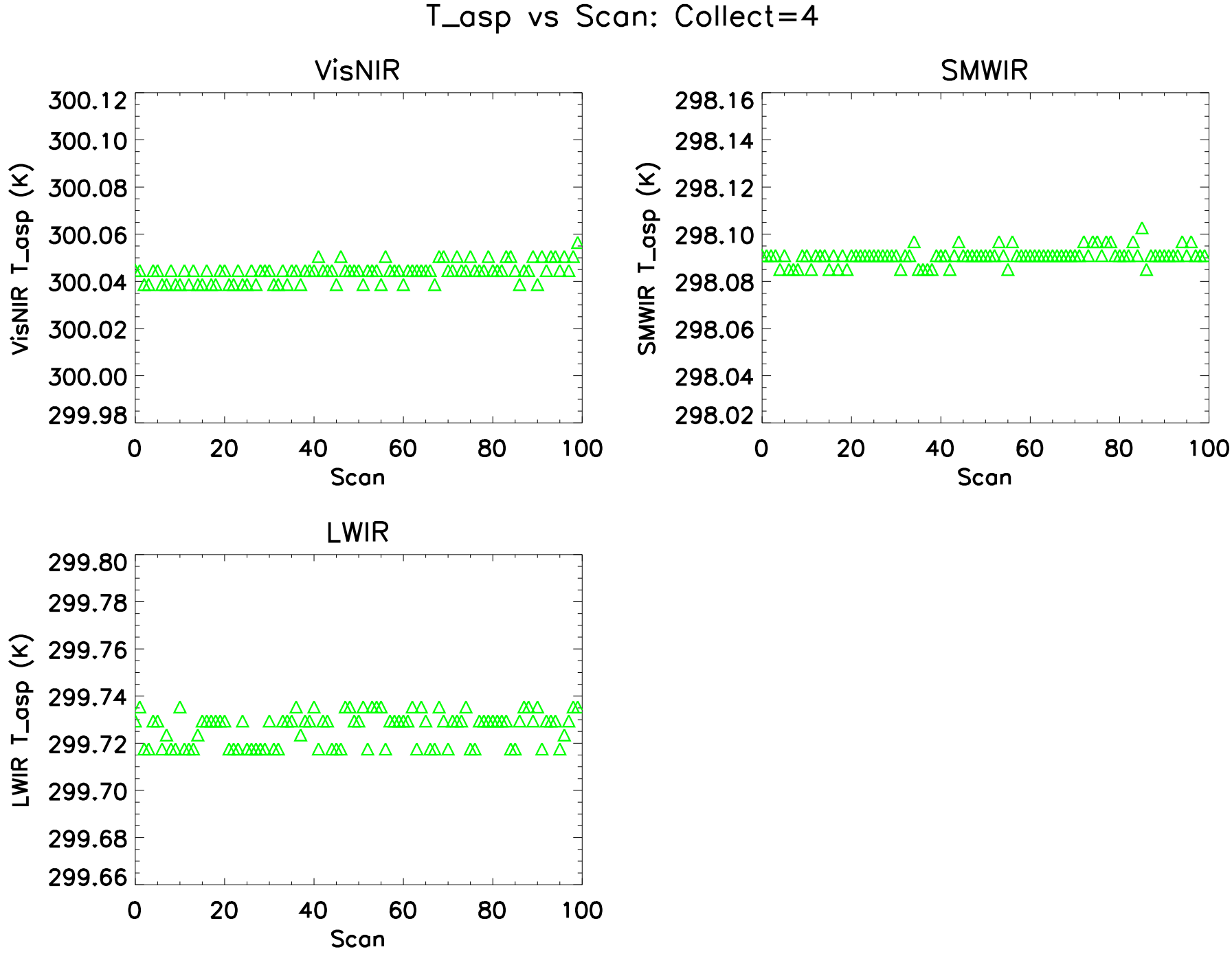
LWIR T_asp vs Scan

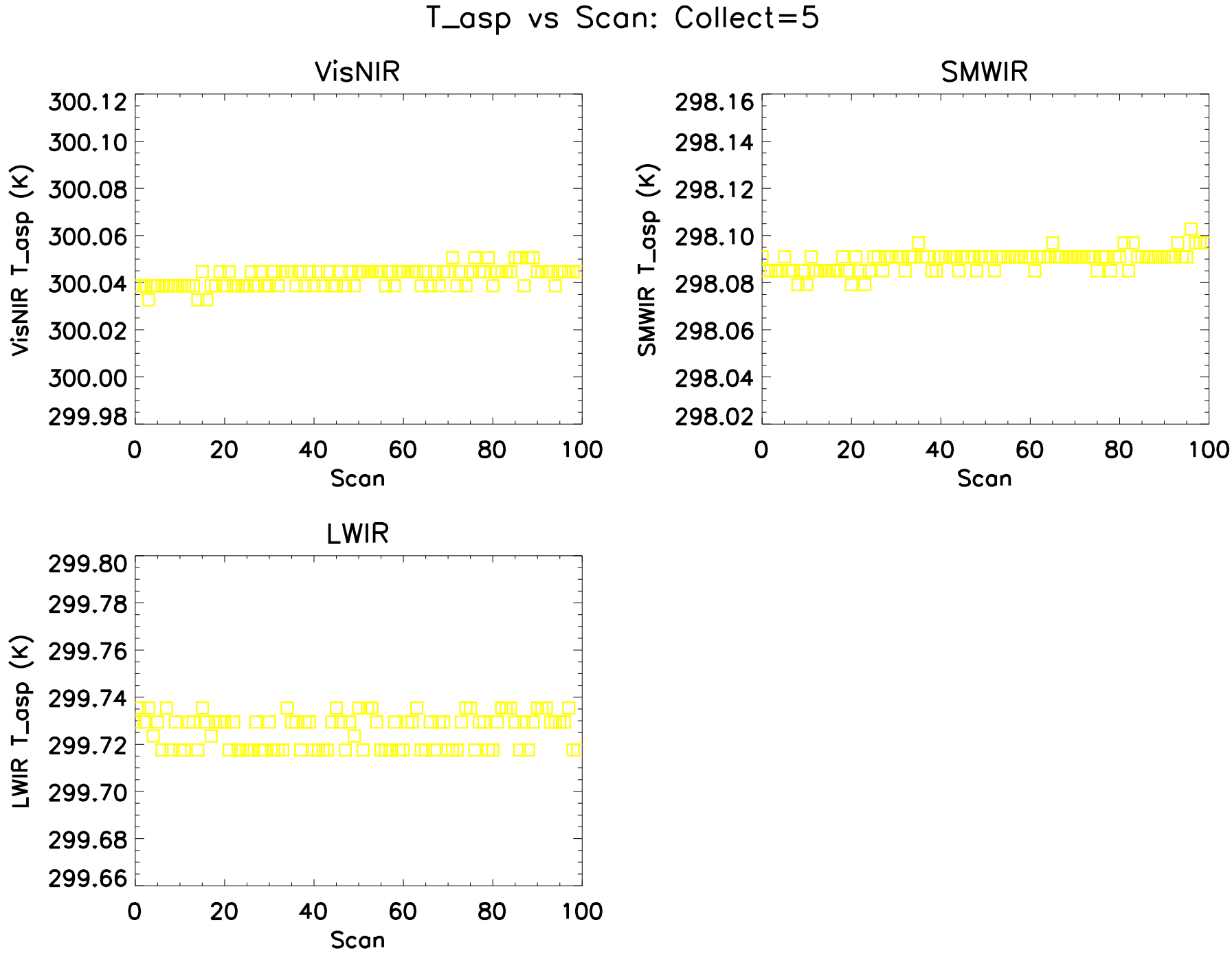


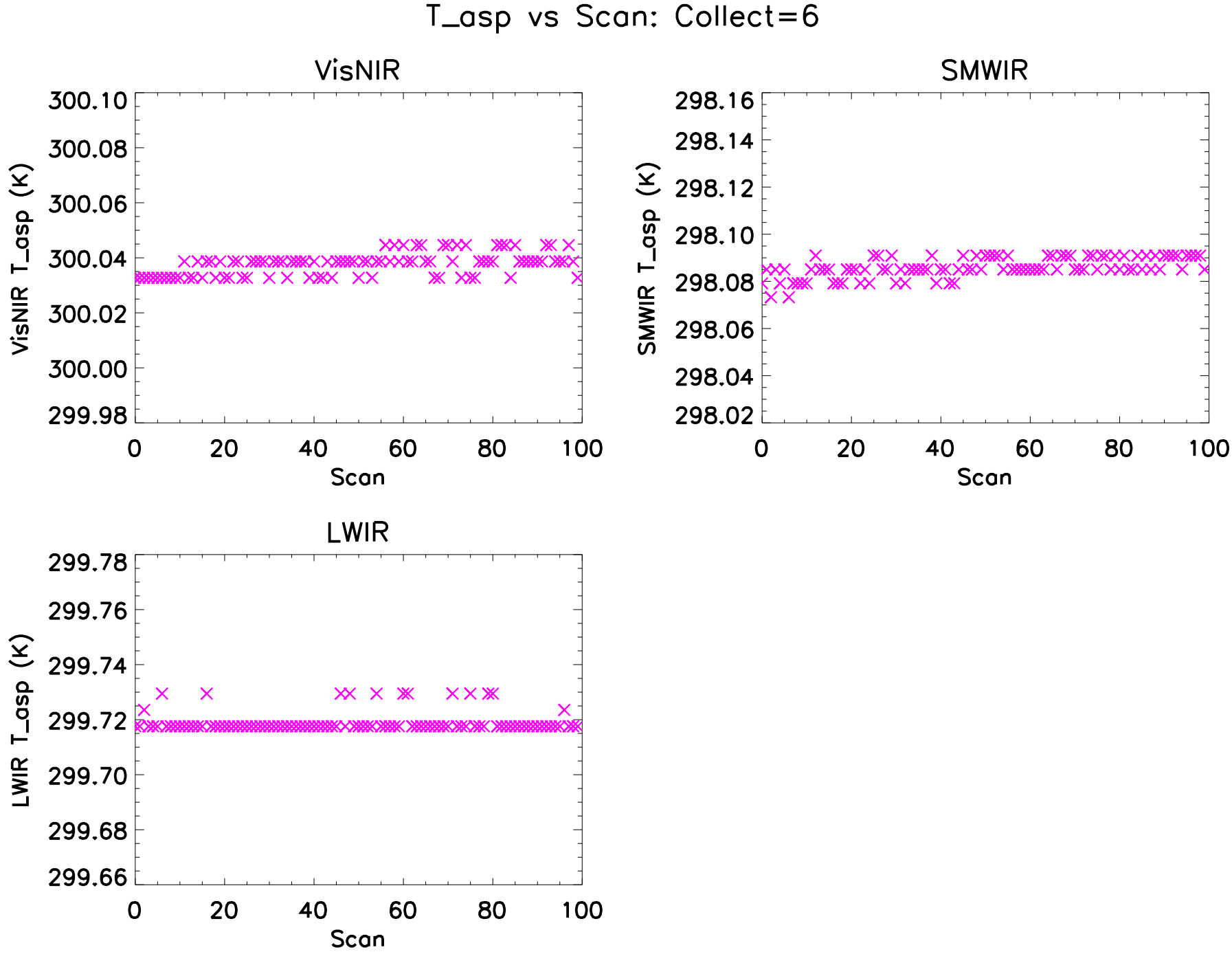

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
300.12
300.10
300.08
300.06
300.04
300.02
300.00
299.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.80
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

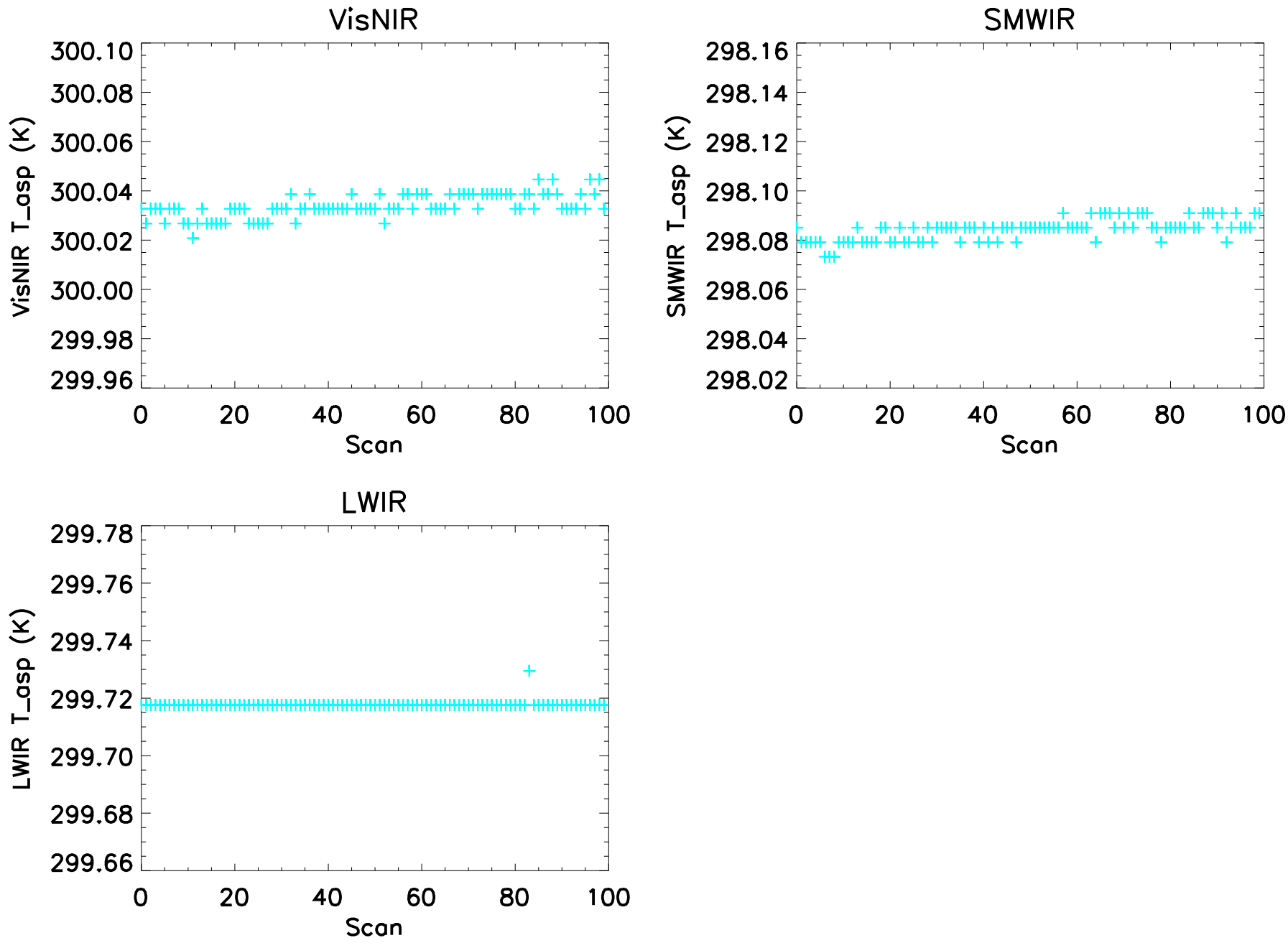

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
300.12
300.10
300.08
300.06
300.04
300.02
300.00
299.98
299.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.80
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

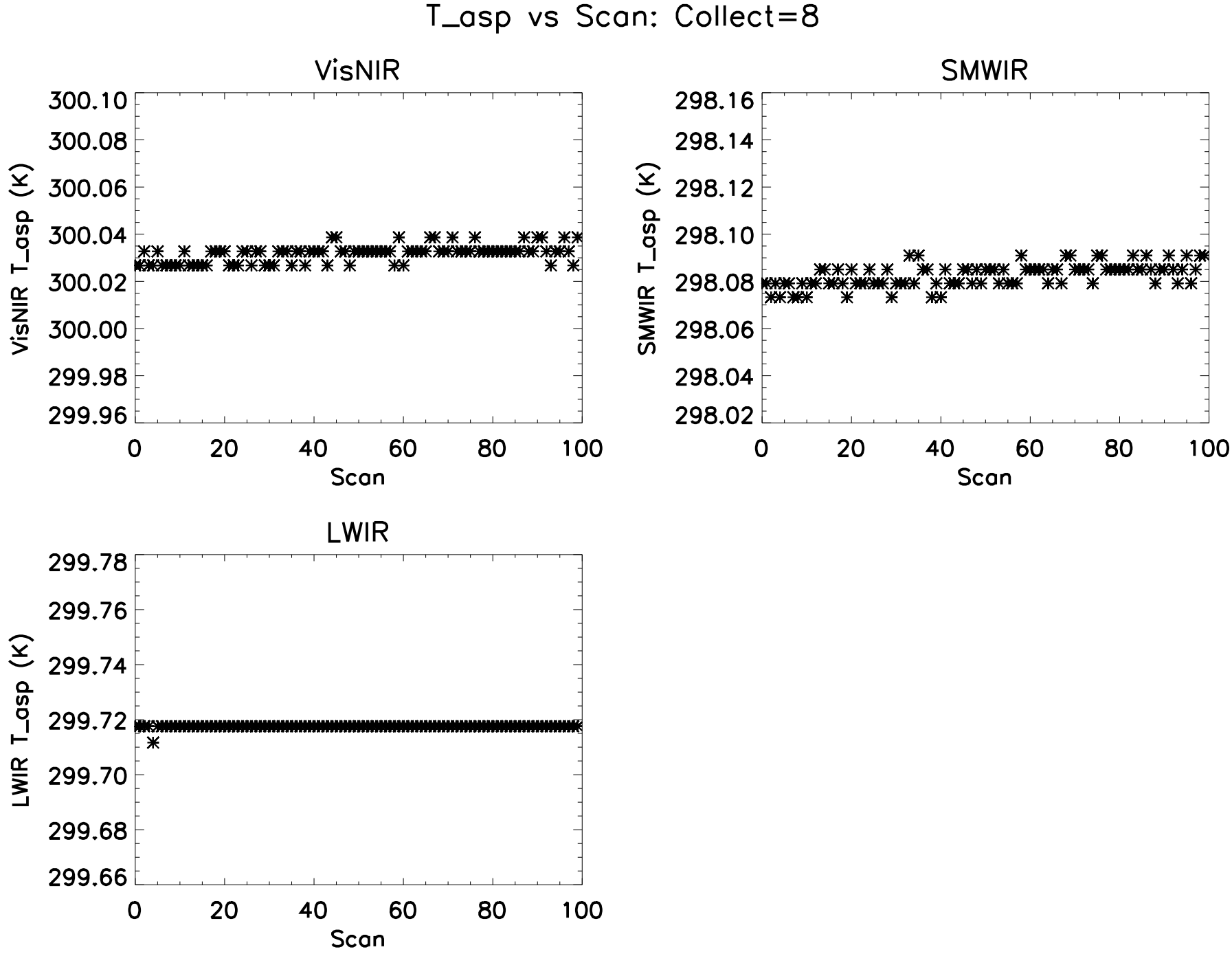

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
300.12
300.10
300.08
300.06
300.04
300.02
300.00
299.98
299.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

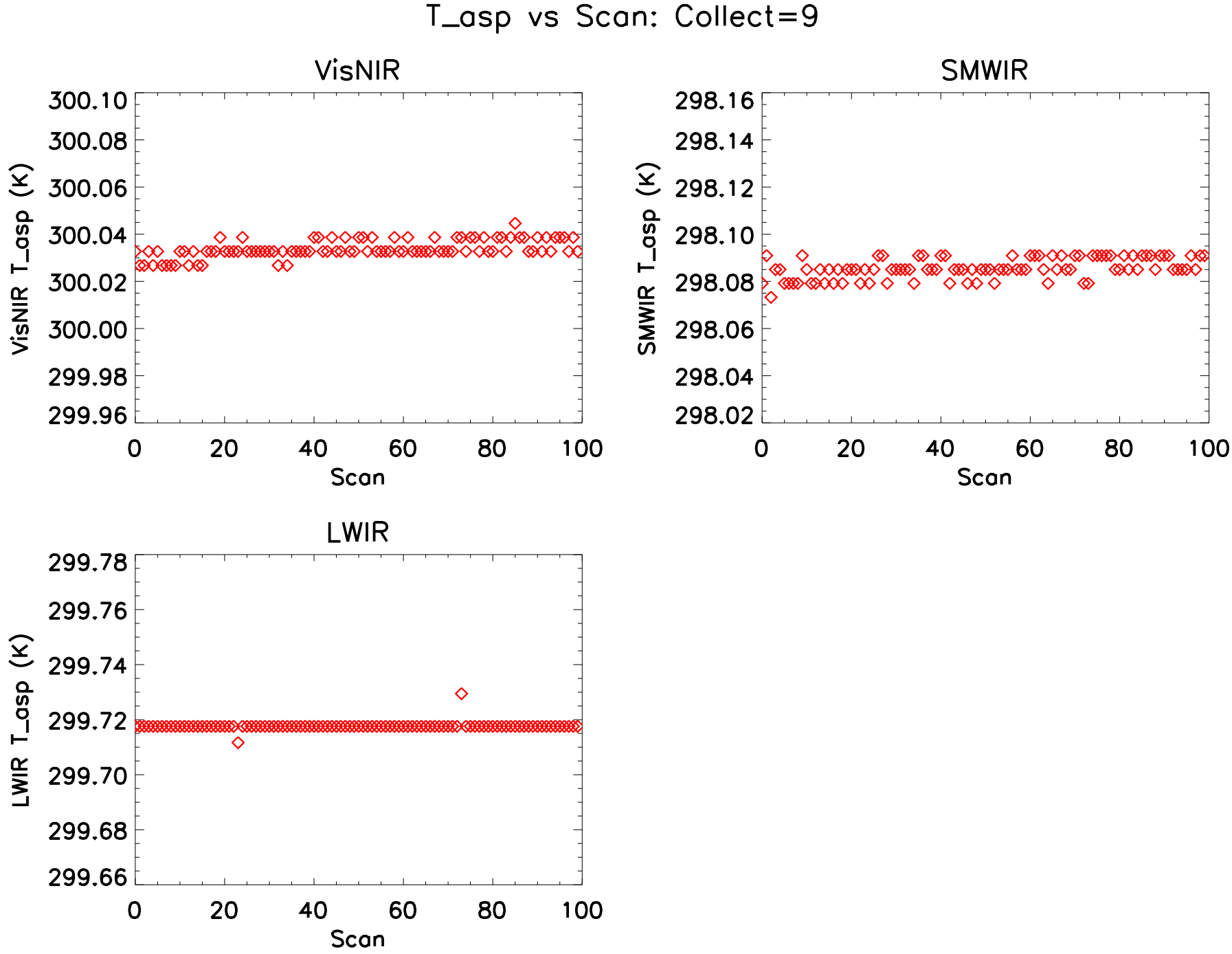

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
300.12
300.10
300.08
300.06
300.04
300.02
300.00
299.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.80
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

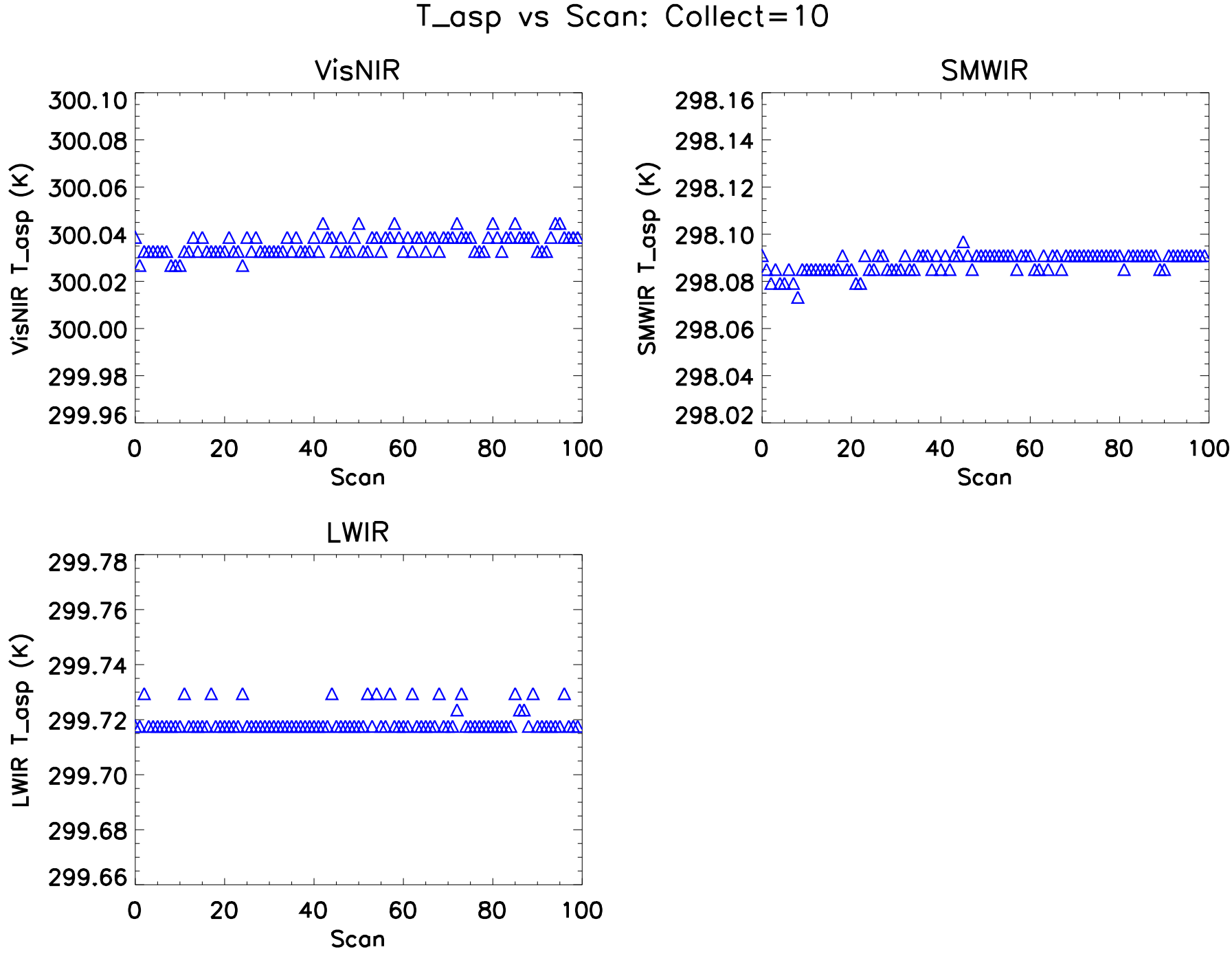

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
300.12
300.10
300.08
300.06
300.04
300.02
300.00
299.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.80
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

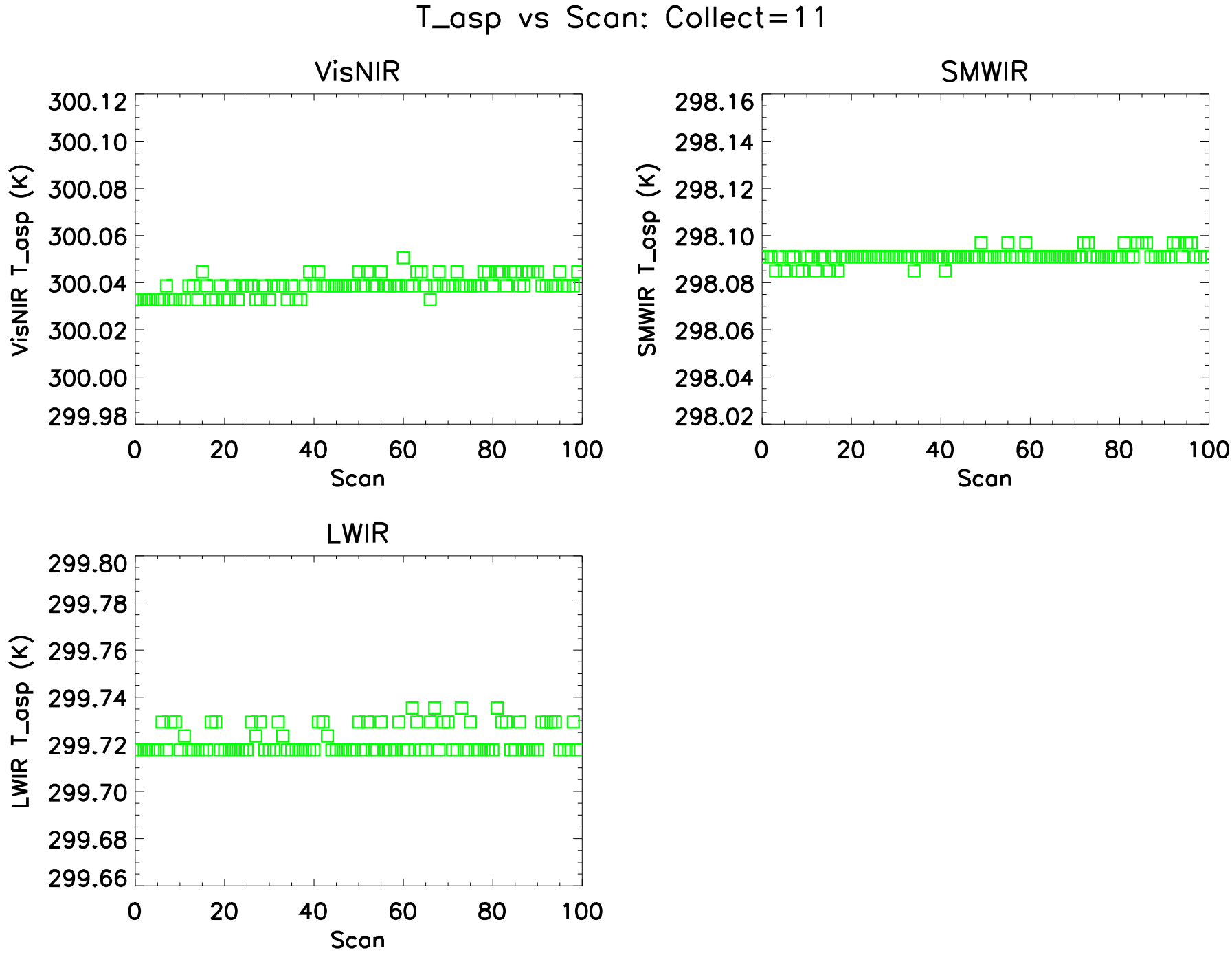

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
300.10
300.08
300.06
300.04
300.02
300.00
299.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

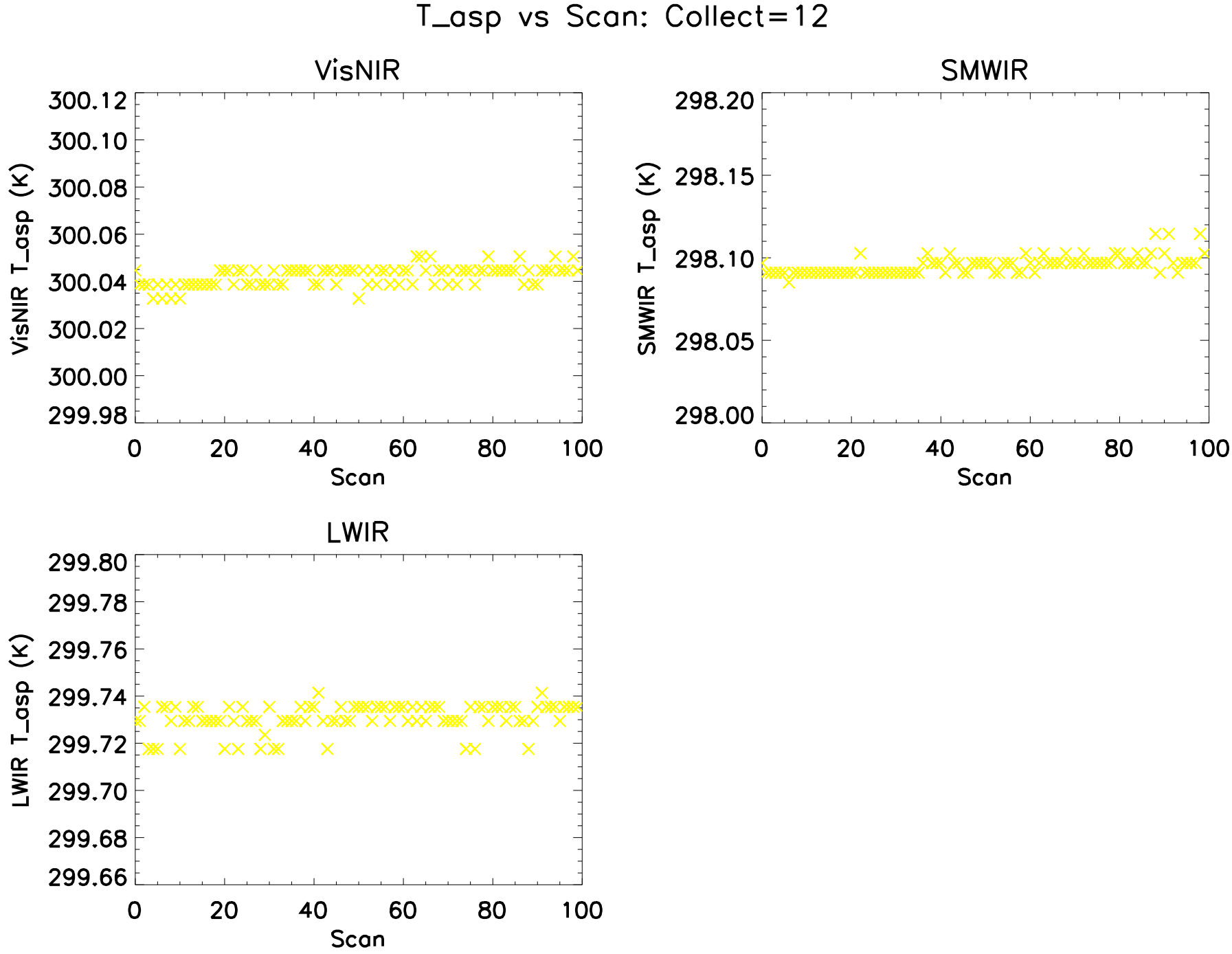

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
300.10
300.08
300.06
300.04
300.02
300.00
299.98
299.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

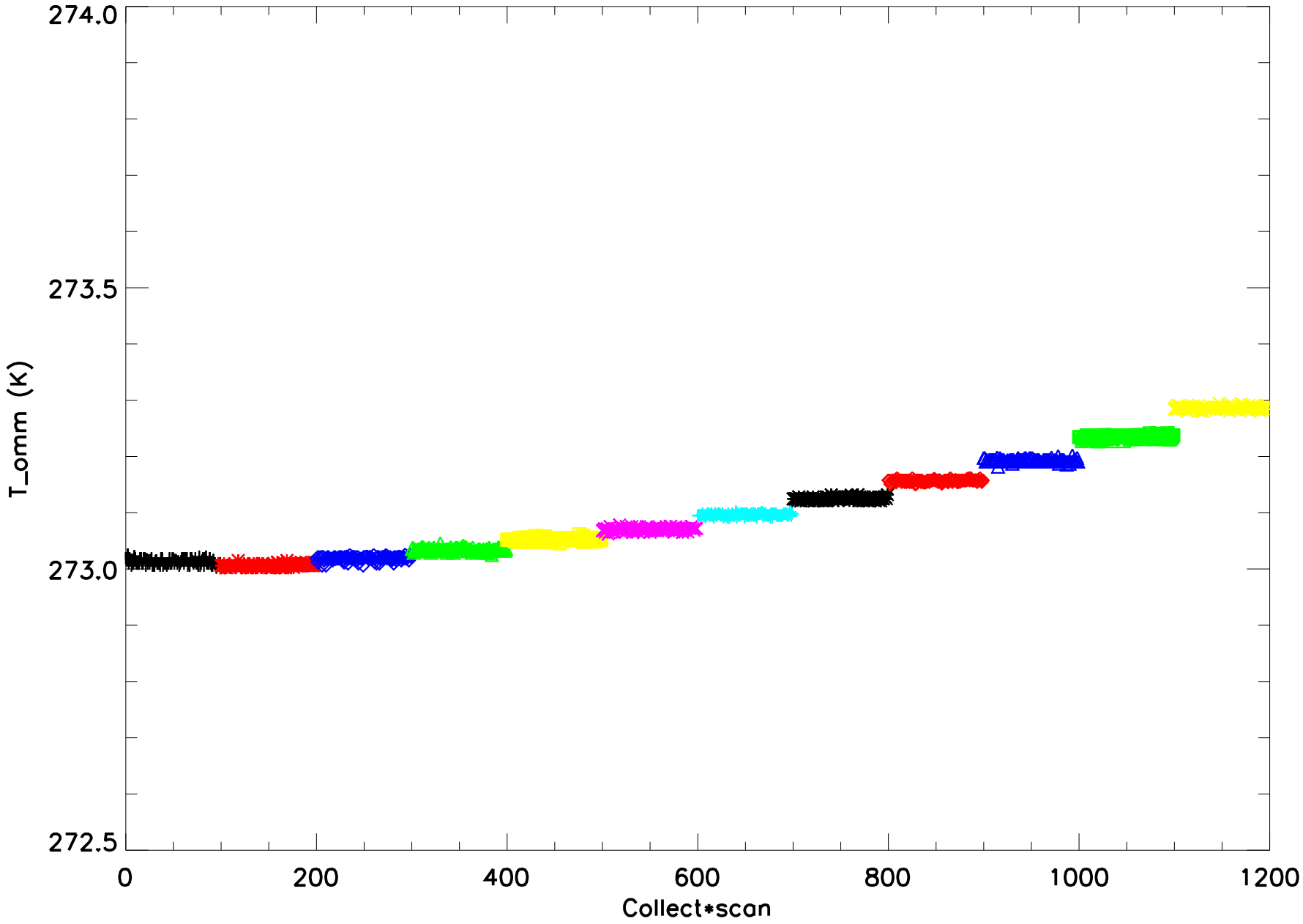

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
300.10
300.08
300.06
300.04
300.02
300.00
299.98
299.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

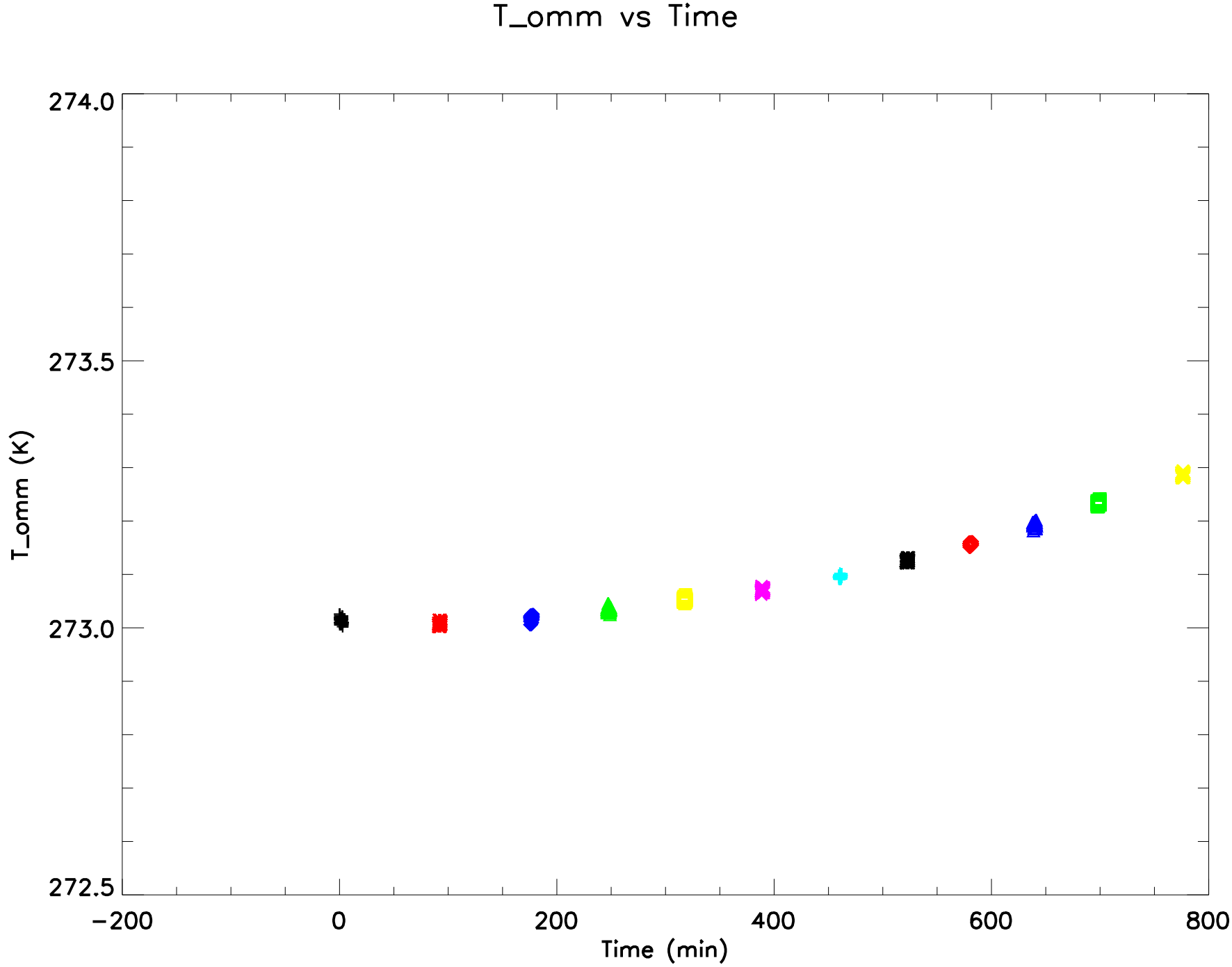

T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
300.10
300.08
300.06
300.04
300.02
300.00
299.98
299.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
300.10
300.08
300.06
300.04
300.02
300.00
299.98
299.96
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

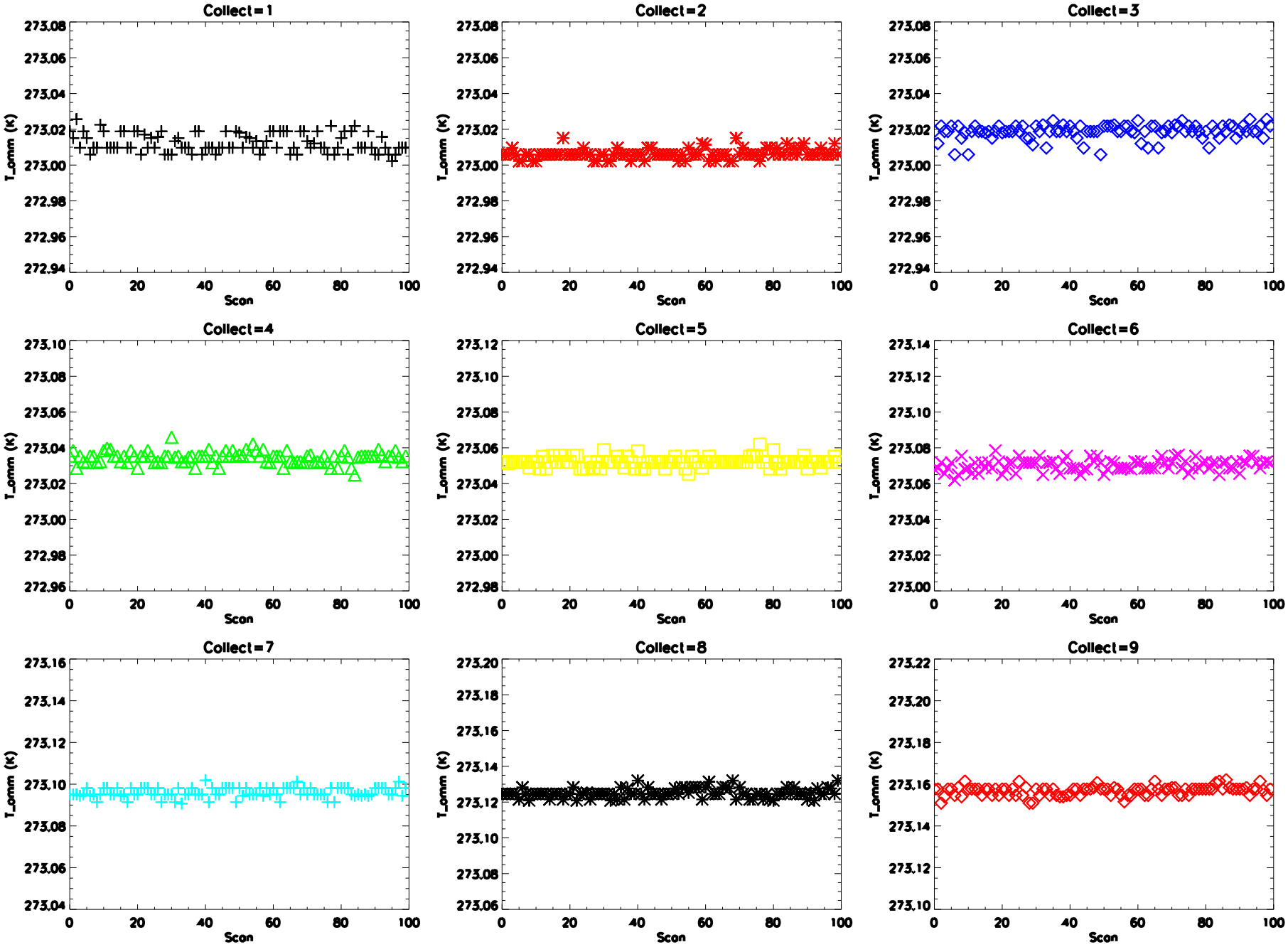

T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
300.12
300.10
300.08
300.06
300.04
300.02
300.00
299.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.16
298.14
298.12
298.10
298.08
298.06
298.04
298.02
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.80
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=12
VisNIR
VisNIR T_asp (K)
300.12
300.10
300.08
300.06
300.04
300.02
300.00
299.98
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
298.20
298.15
298.10
298.05
298.00
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
299.80
299.78
299.76
299.74
299.72
299.70
299.68
299.66
0
20
40
60
80
100
Scan

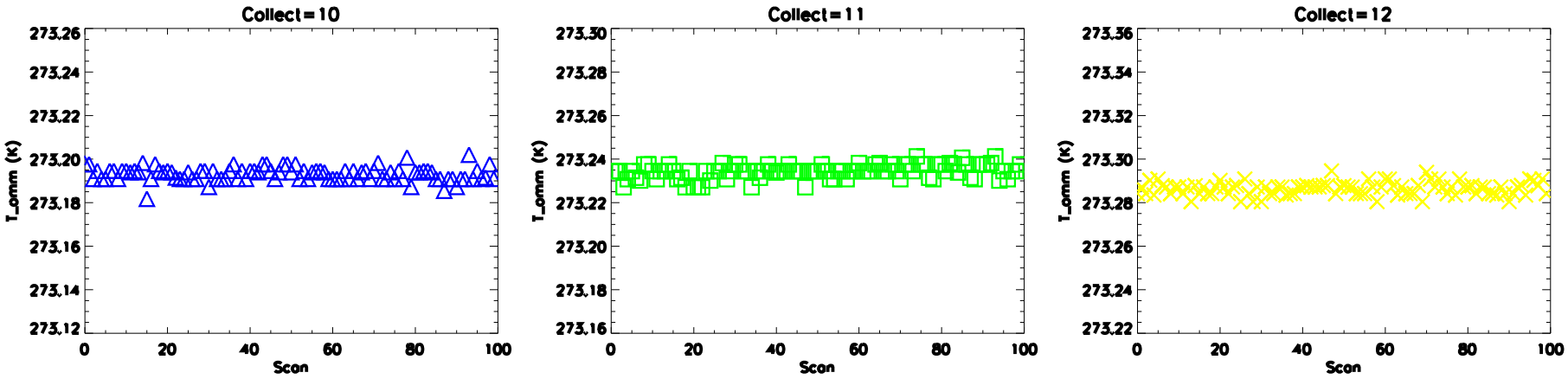

T_omm vs Scan and Collect
274.0
273.5
273.0
272.5
T_omm (K)
0
200
400
600
800
1000
1200
Collect*scan


T_omm vs Time
274.0
273.5
273.0
272.5
T_omm (K)
−200
0
200
400
600
800
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
Collect = 12
T_omm (K)
Scan
273.26
273.24
273.22
273.20
273.18
273.16
273.14
273.12
273.30
273.28
273.36
273.34
273.32
0
20
40
60
80
100