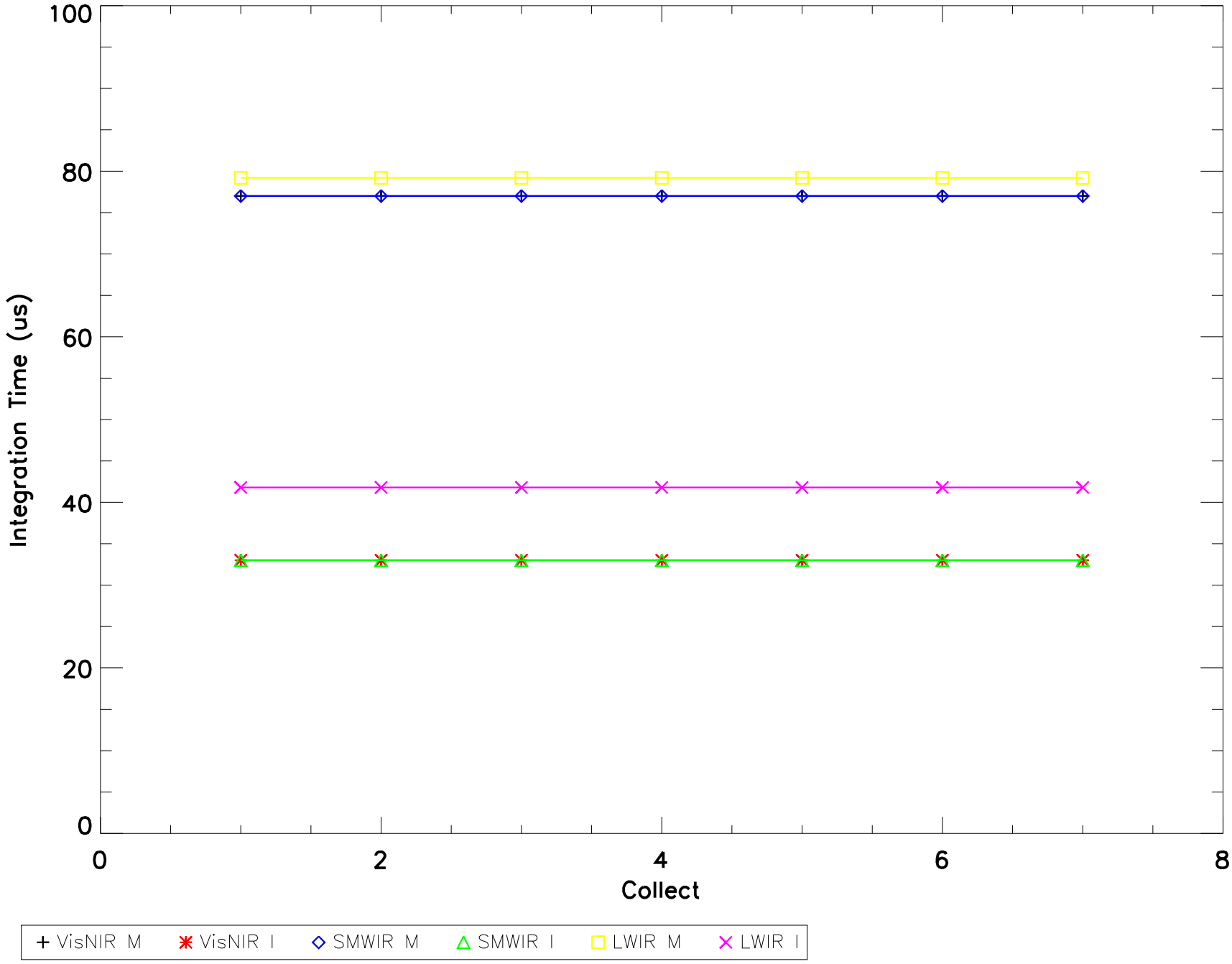
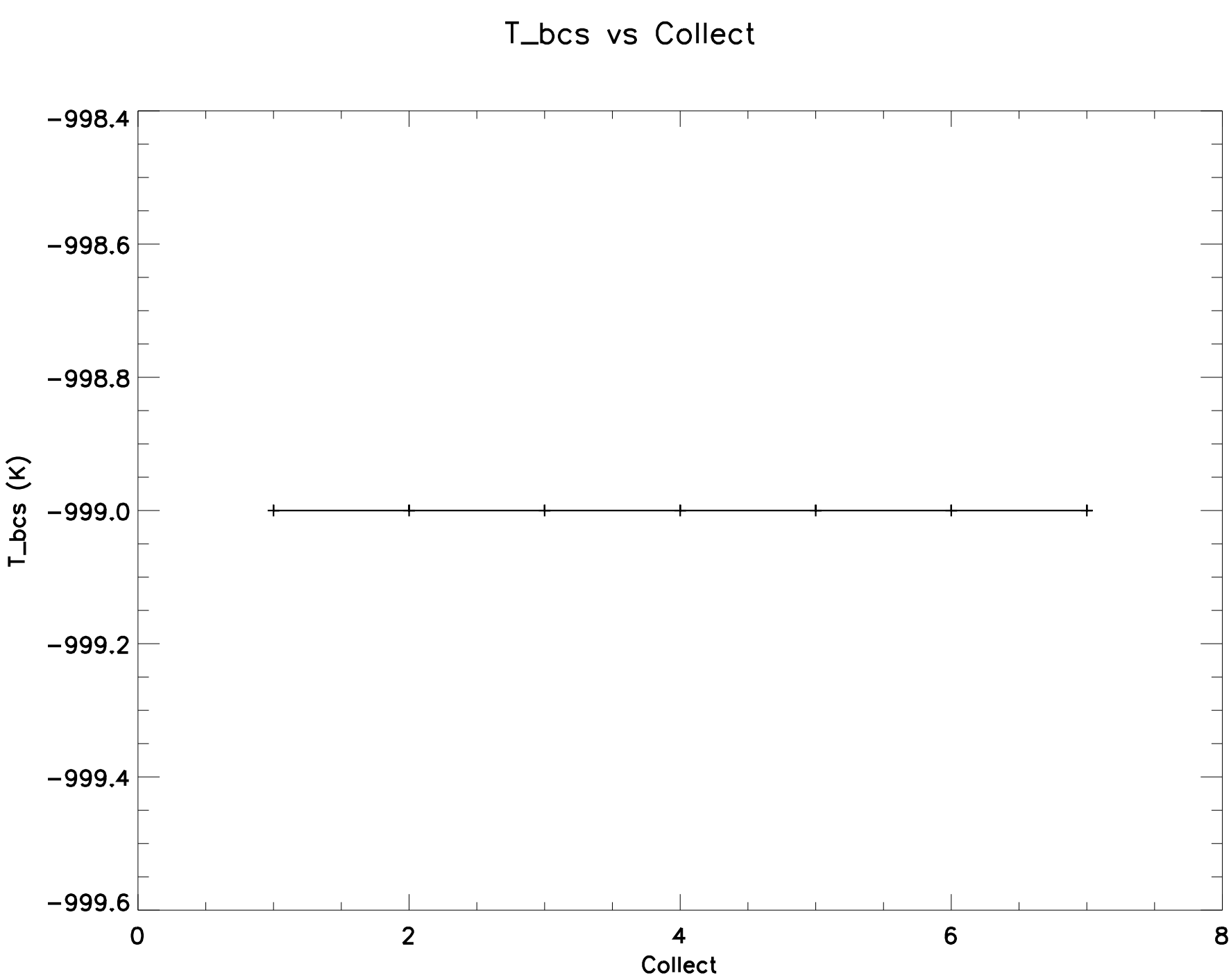
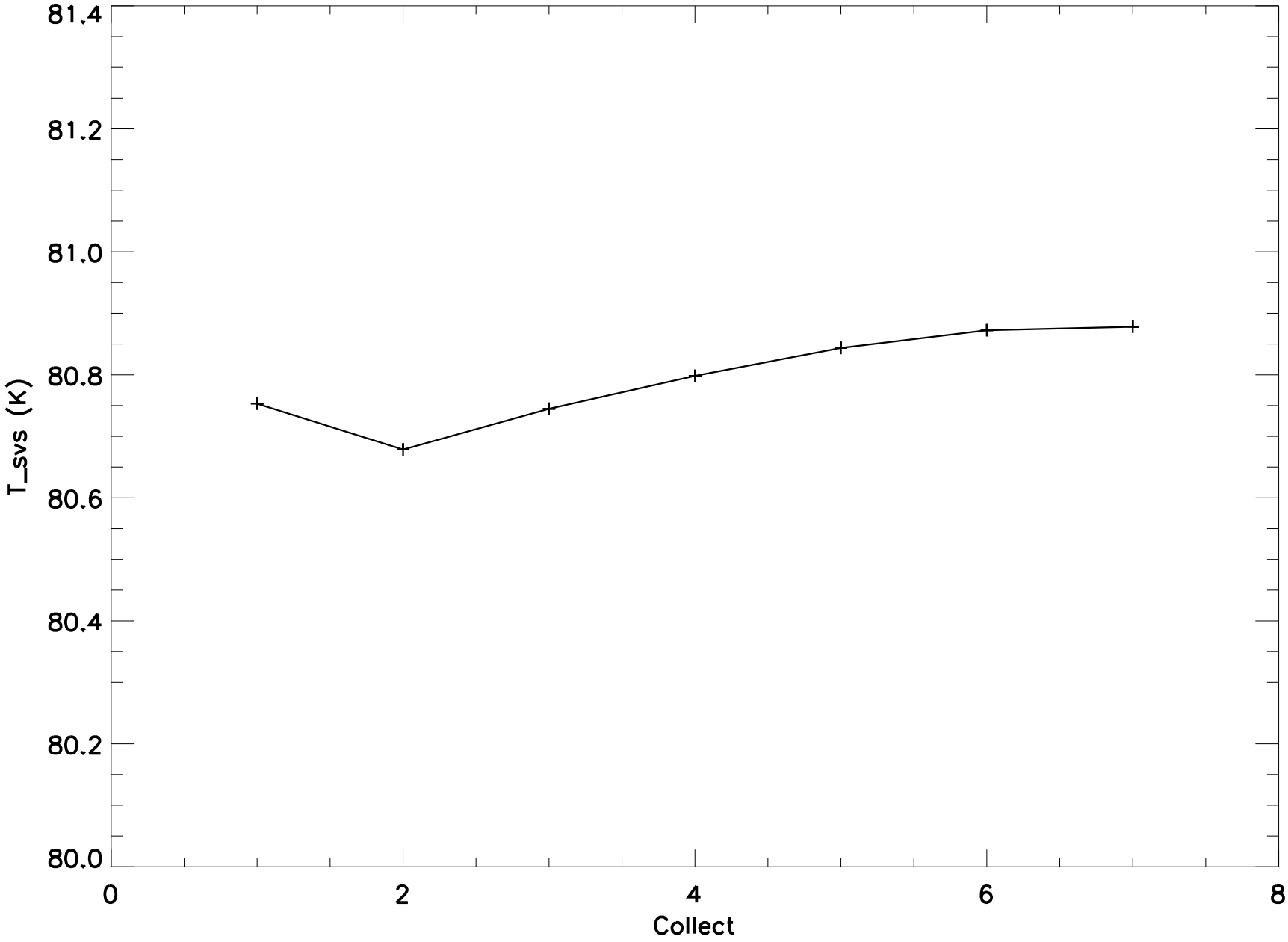
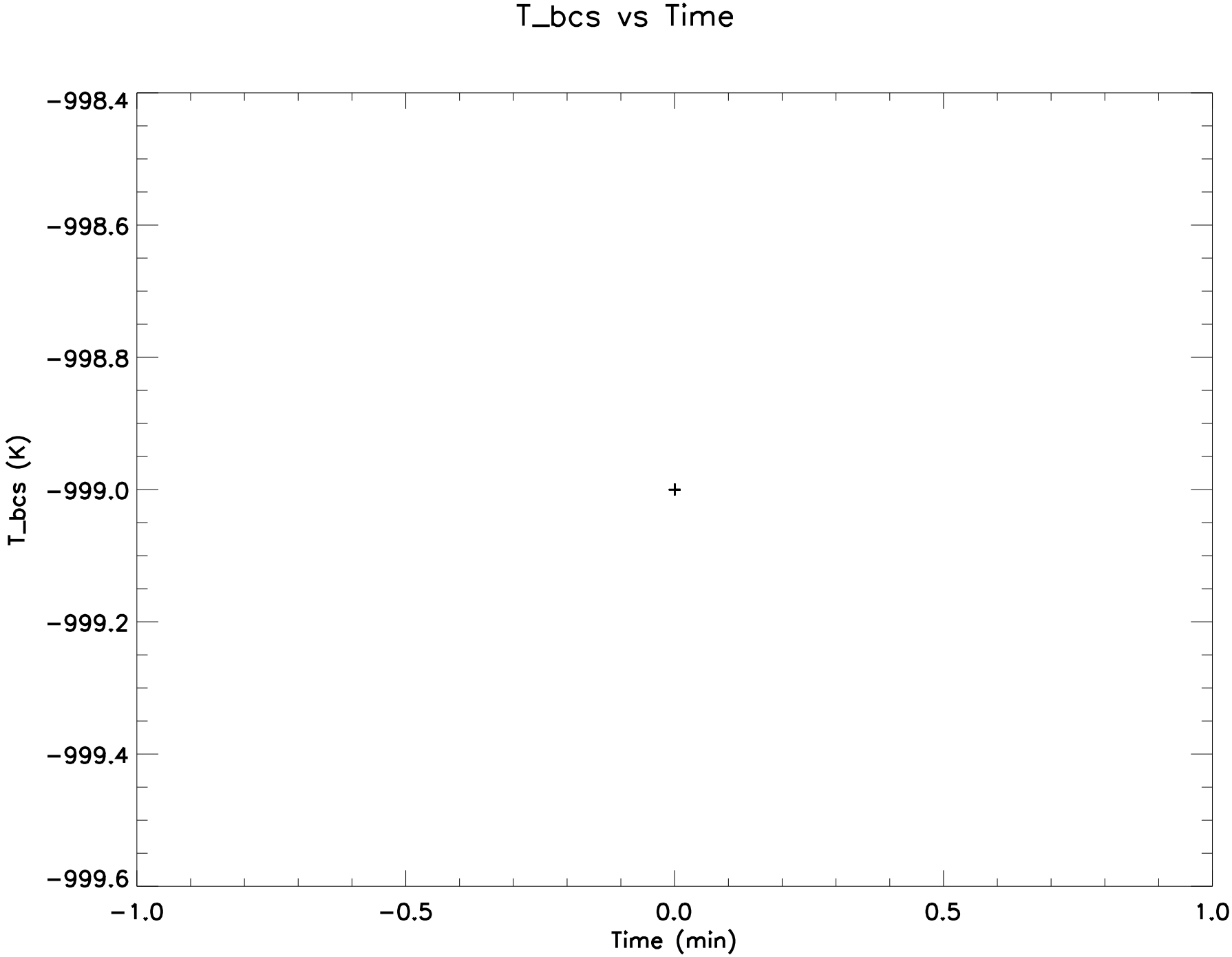
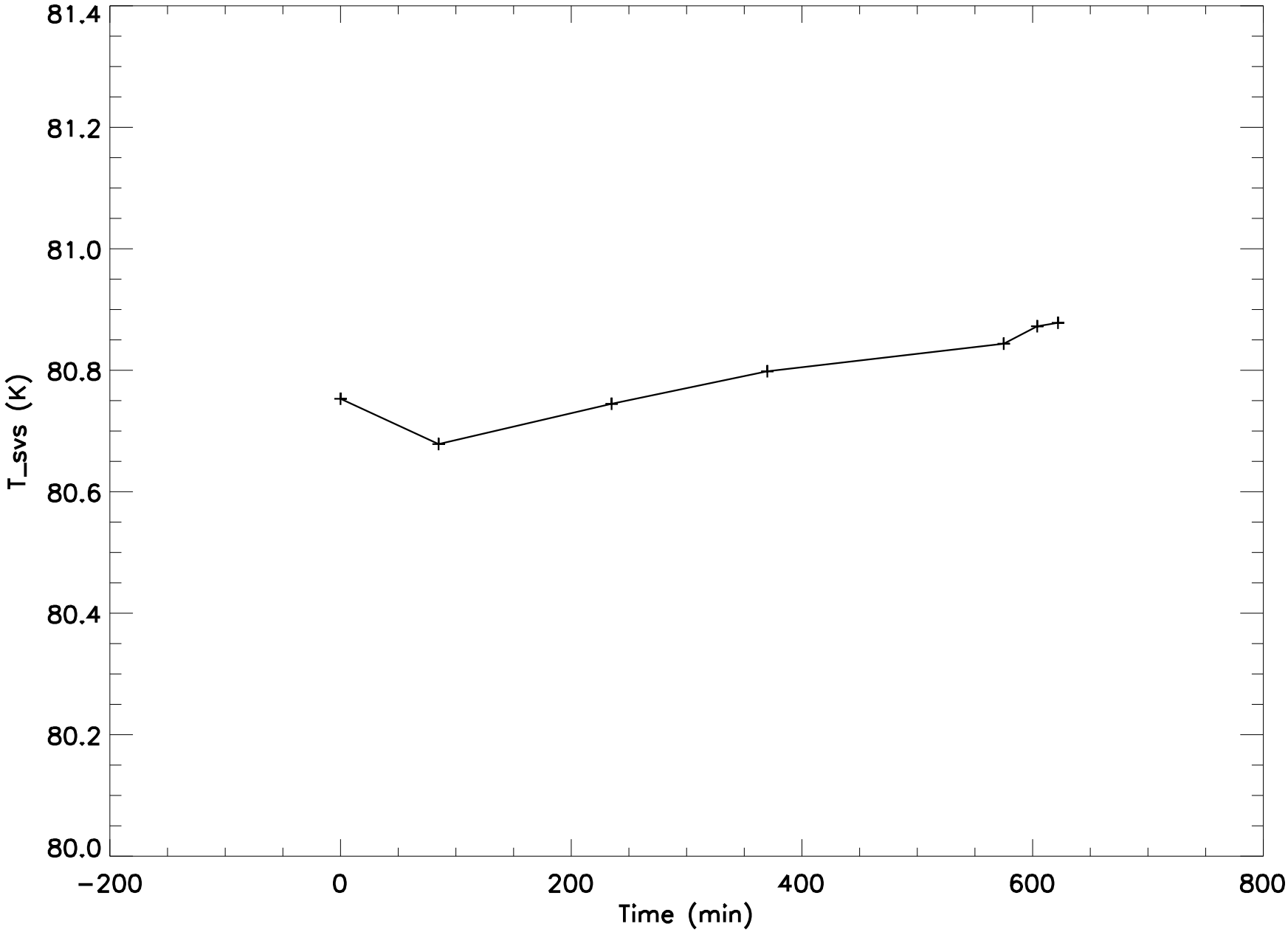
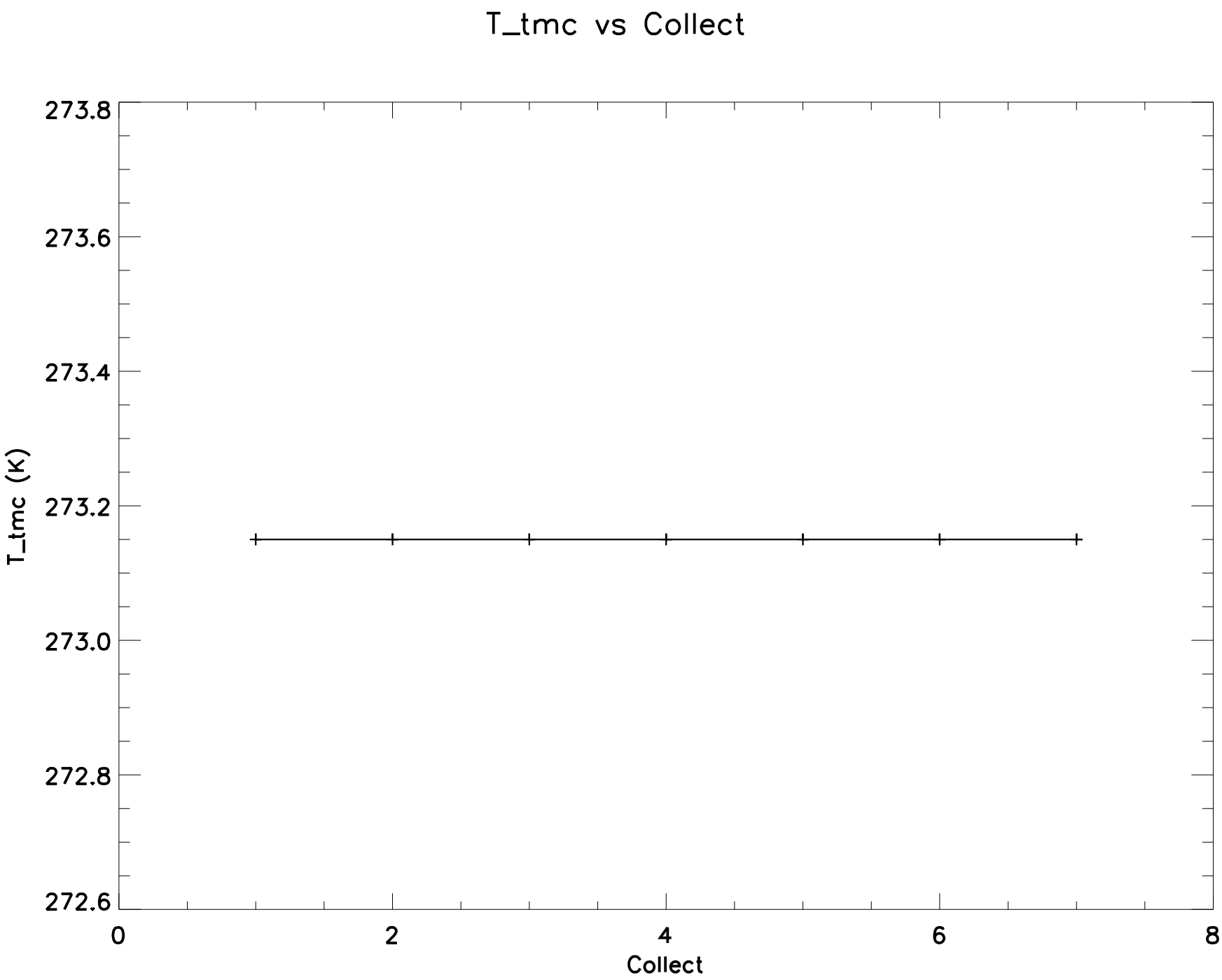

Integration Time vs Collect
Integration Time (us)
100
80
60
40
20
0
0
2
4
6
8
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I

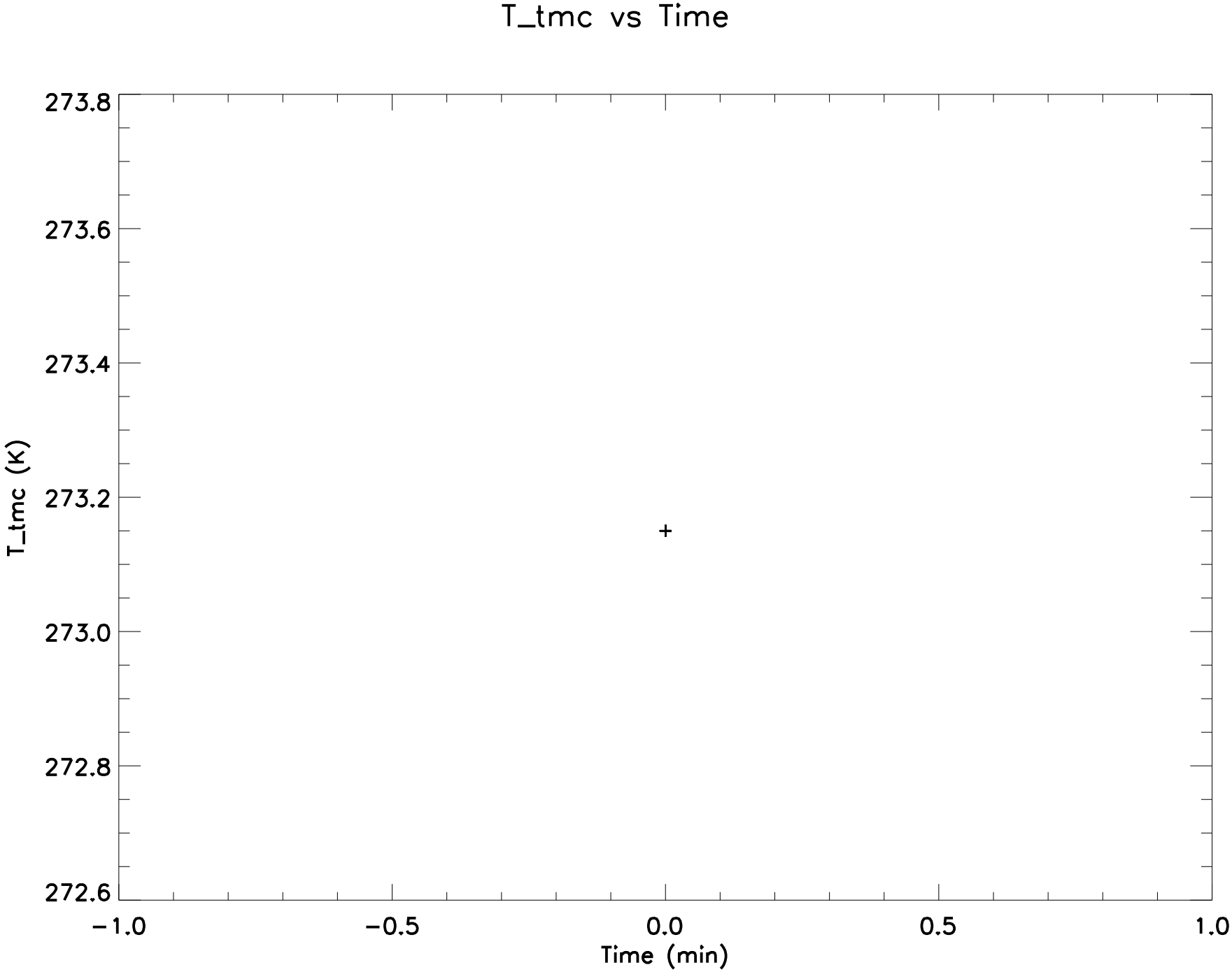

T_bcs vs Collect
−998.4
−998.6
−998.8
−999.0
−999.2
−999.4
−999.6
T_bcs (K)
0
2
4
6
8
Collect

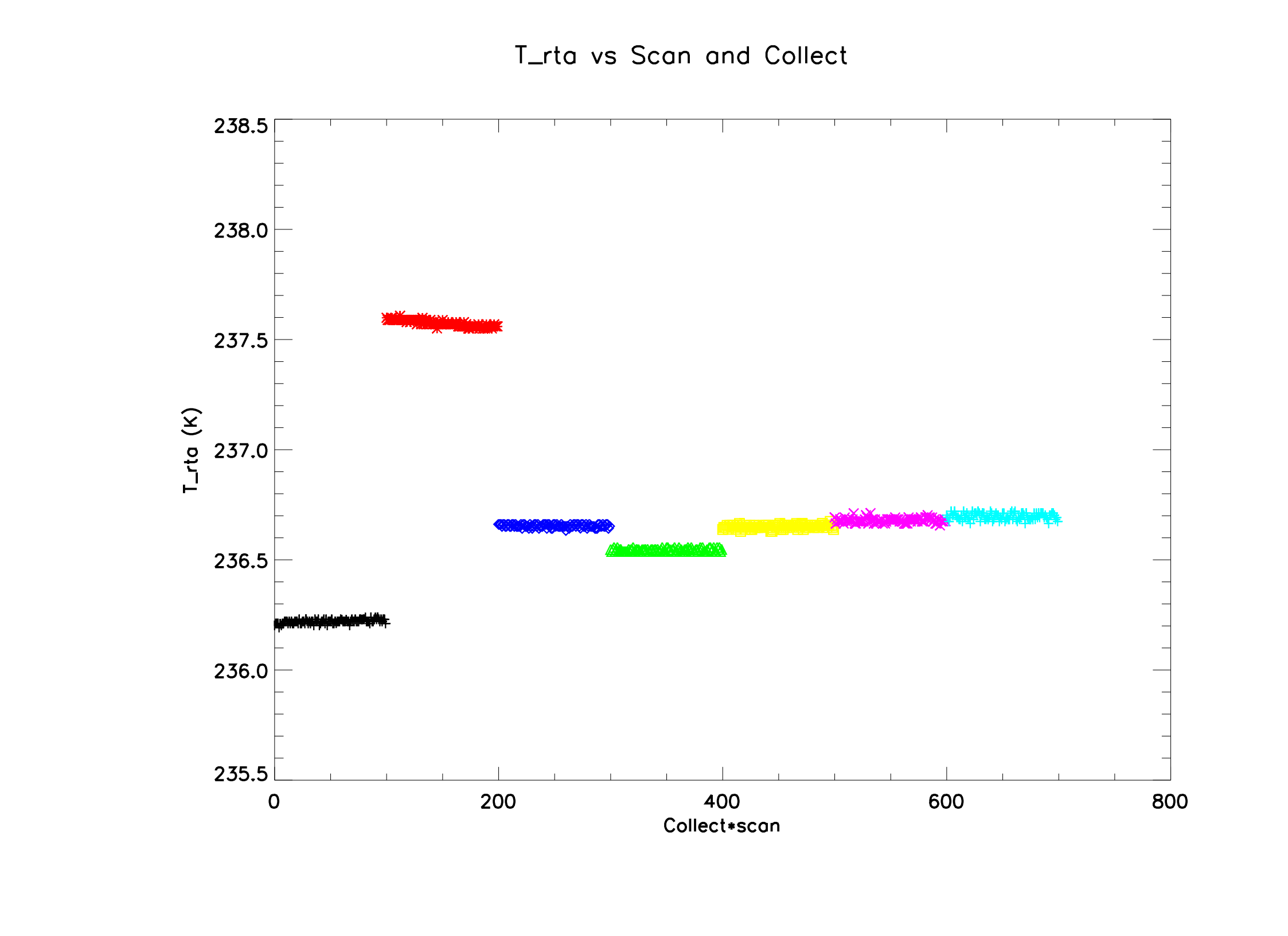

T_svs vs Collect
81.4
81.2
81.0
80.8
80.6
80.4
80.2
80.0
T_svs (K)
0
2
4
6
8
Collect

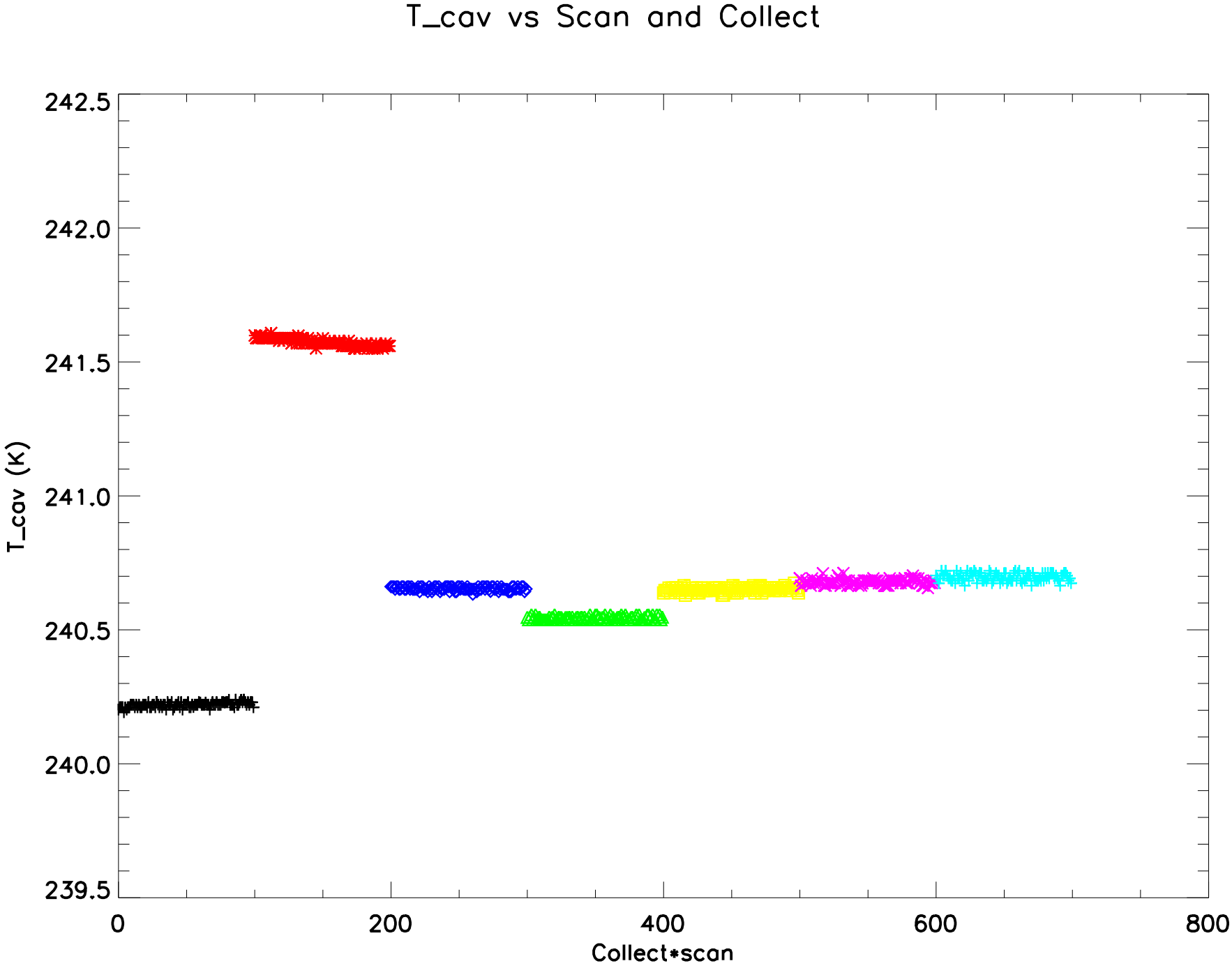

T_bcs vs Time
−998.4
−998.6
−998.8
−999.0
−999.2
−999.4
−999.6
T_bcs (K)
−1.0
−0.5
0.0
0.5
1.0
Time (min)

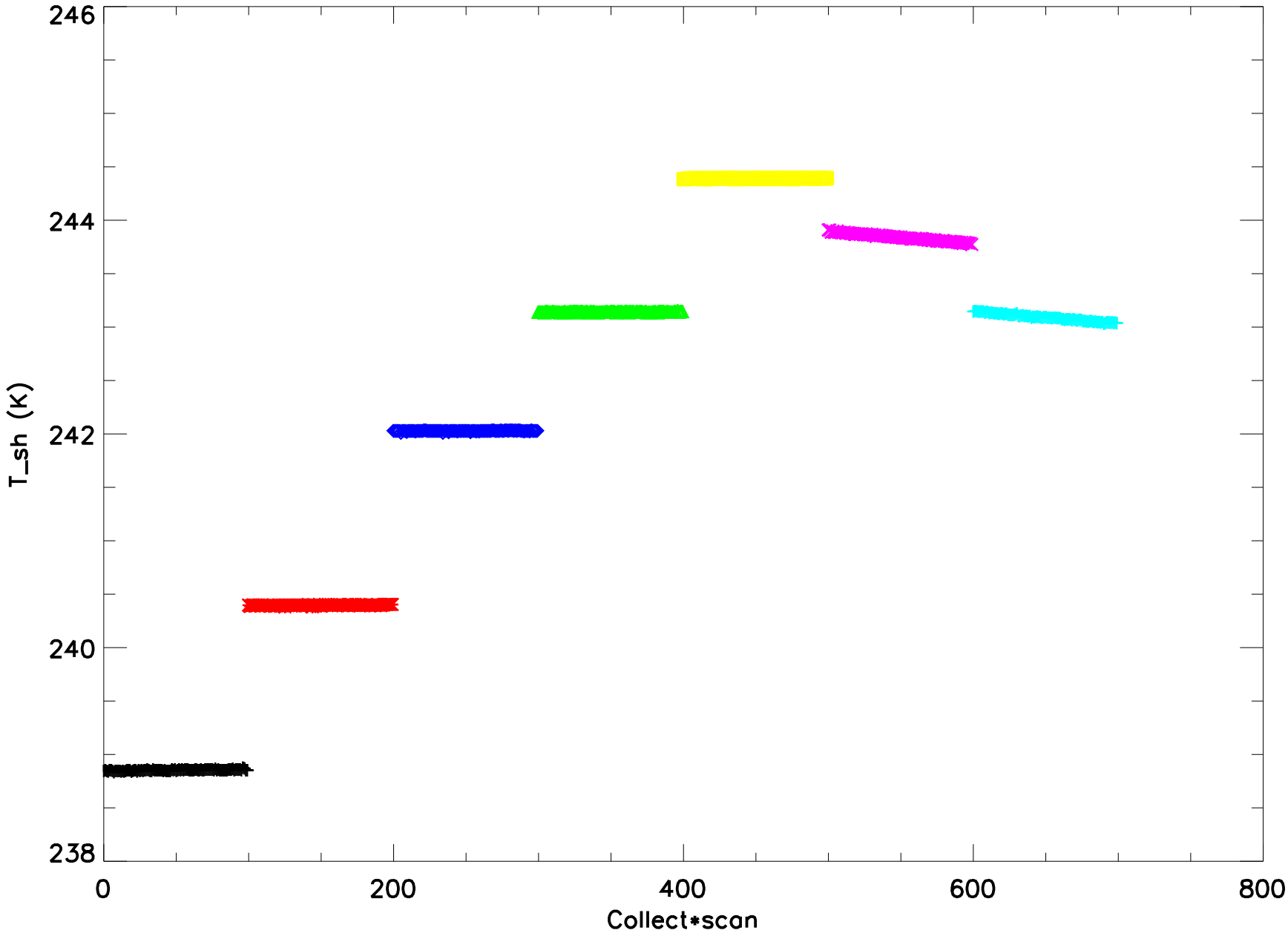

T_svs vs Time
81.4
81.2
81.0
80.8
80.6
80.4
80.2
80.0
T_svs (K)
−200
0
200
400
600
800
Time (min)

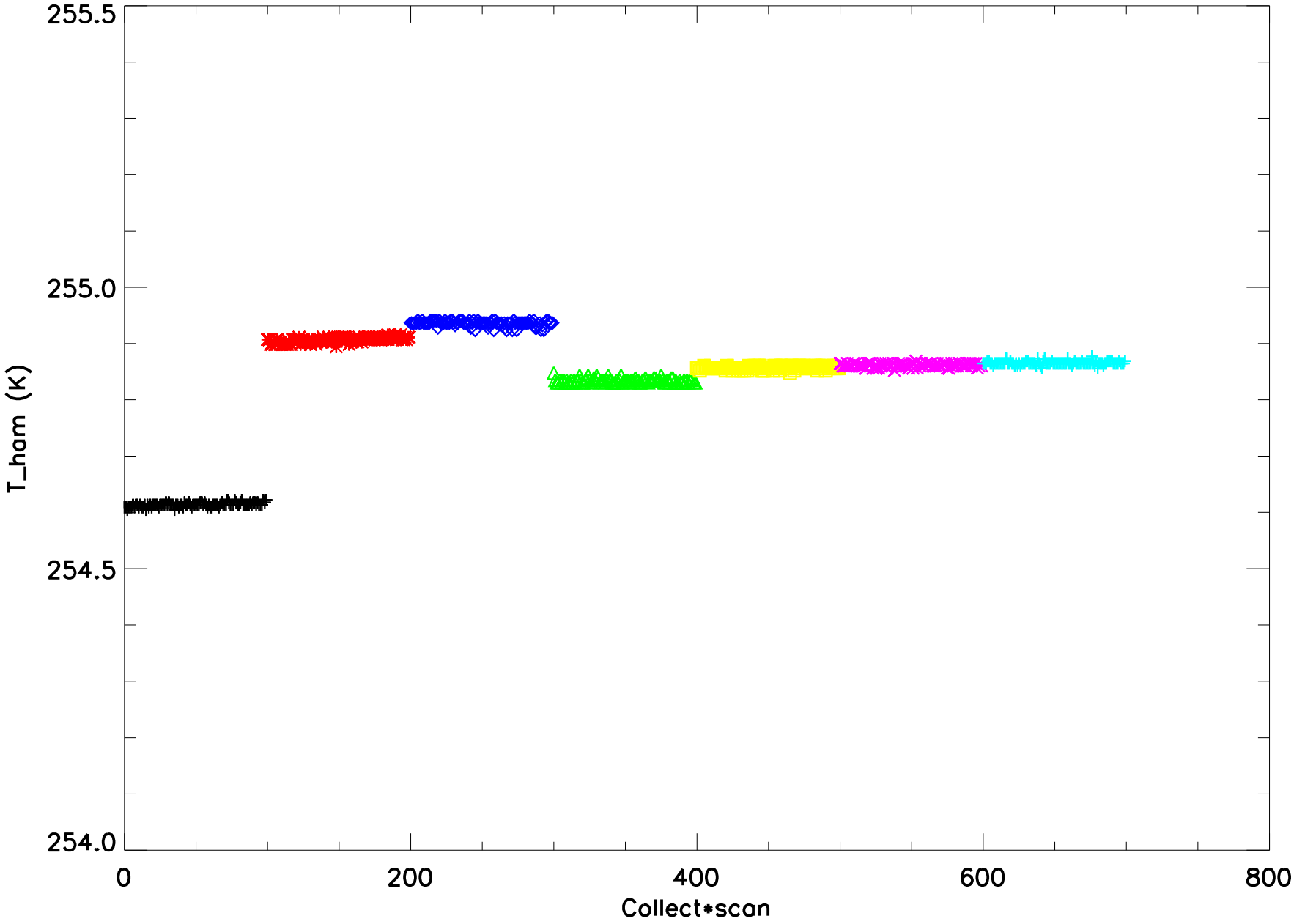

T_tmc vs Collect
273.8
273.6
273.4
273.2
273.0
272.8
272.6
T_tmc (K)
0
2
4
6
8
Collect

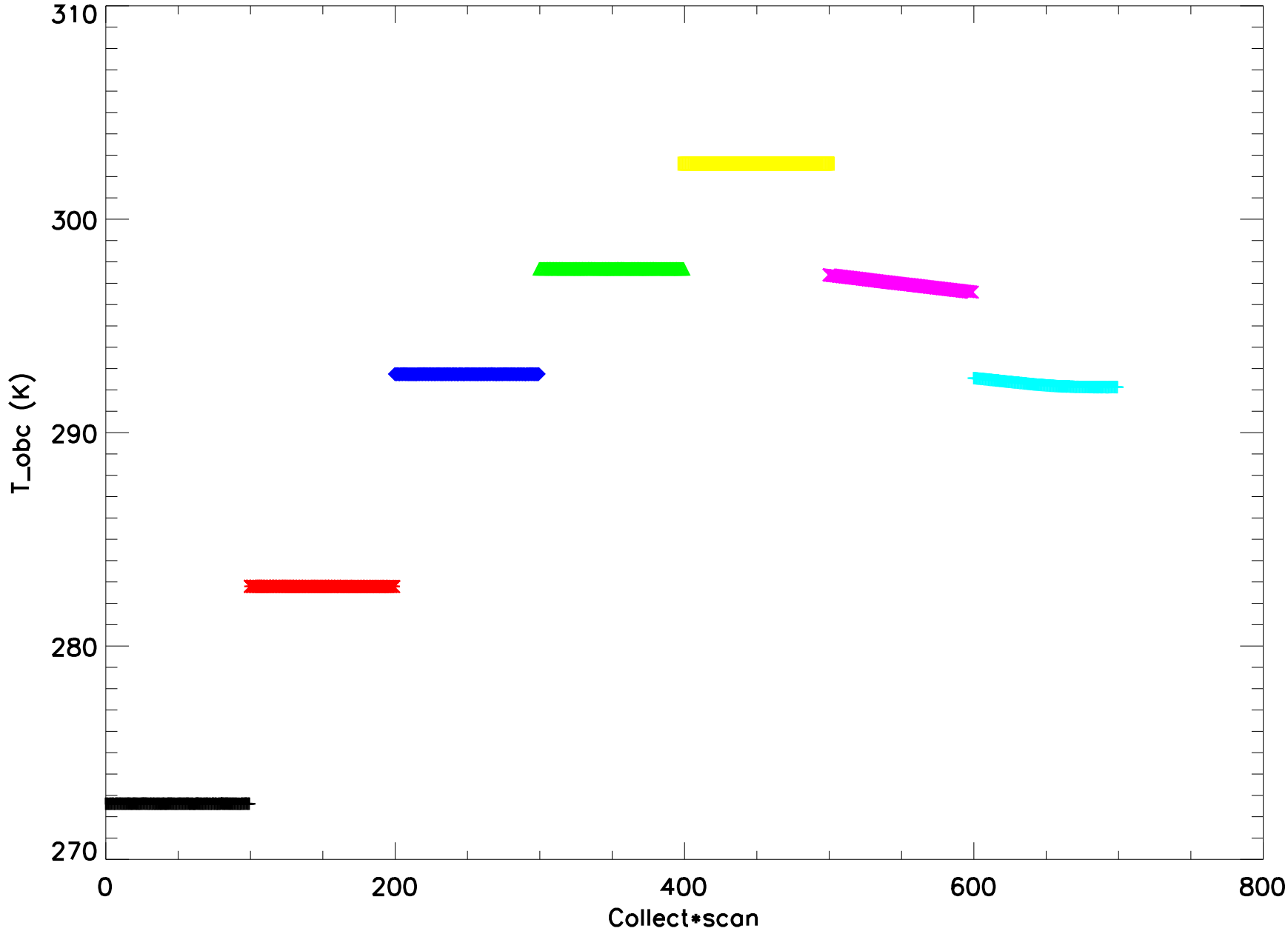

T_tmc vs Time
273.8
273.6
273.4
273.2
273.0
272.8
272.6
T_tmc (K)
−1.0
−0.5
0.0
0.5
1.0
Time (min)

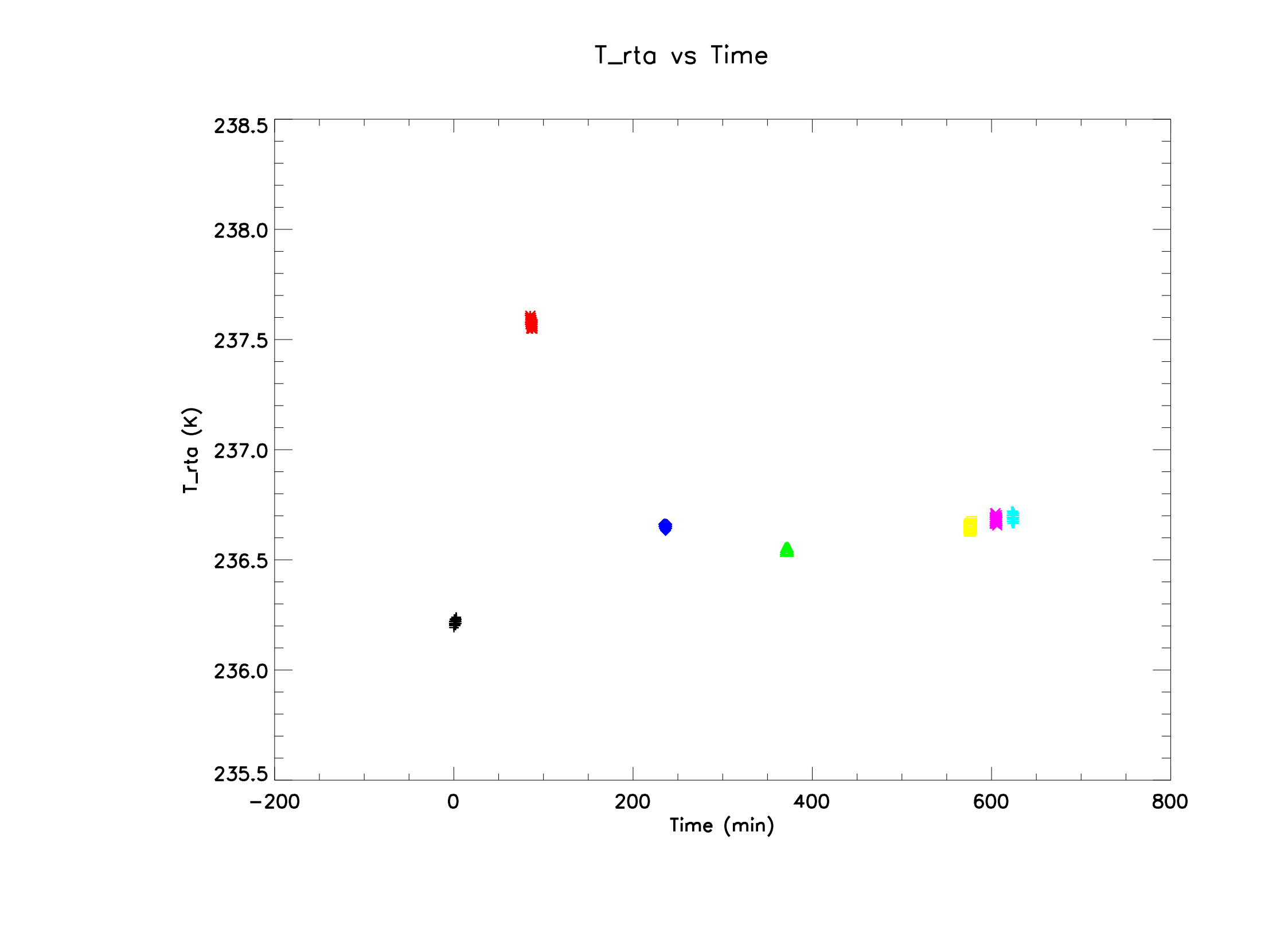

T_rta vs Scan and Collect
238.5
238.0
237.5
237.0
236.5
236.0
235.5
T_rta (K)
0
200
400
600
800
Collect*scan

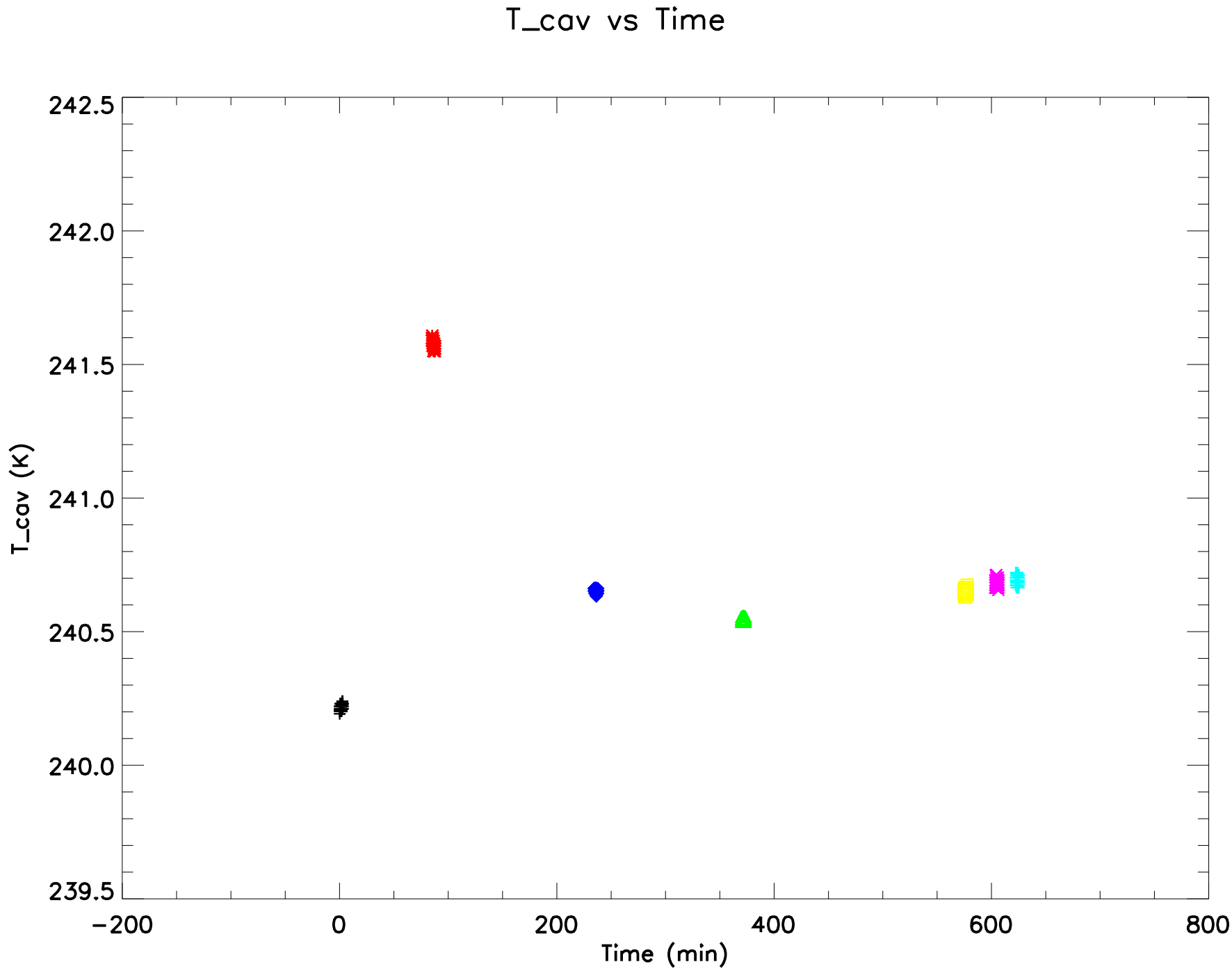

T_cav vs Scan and Collect
242.5
242.0
241.5
241.0
240.5
240.0
239.5
T_cav (K)
0
200
400
600
800
Collect*scan

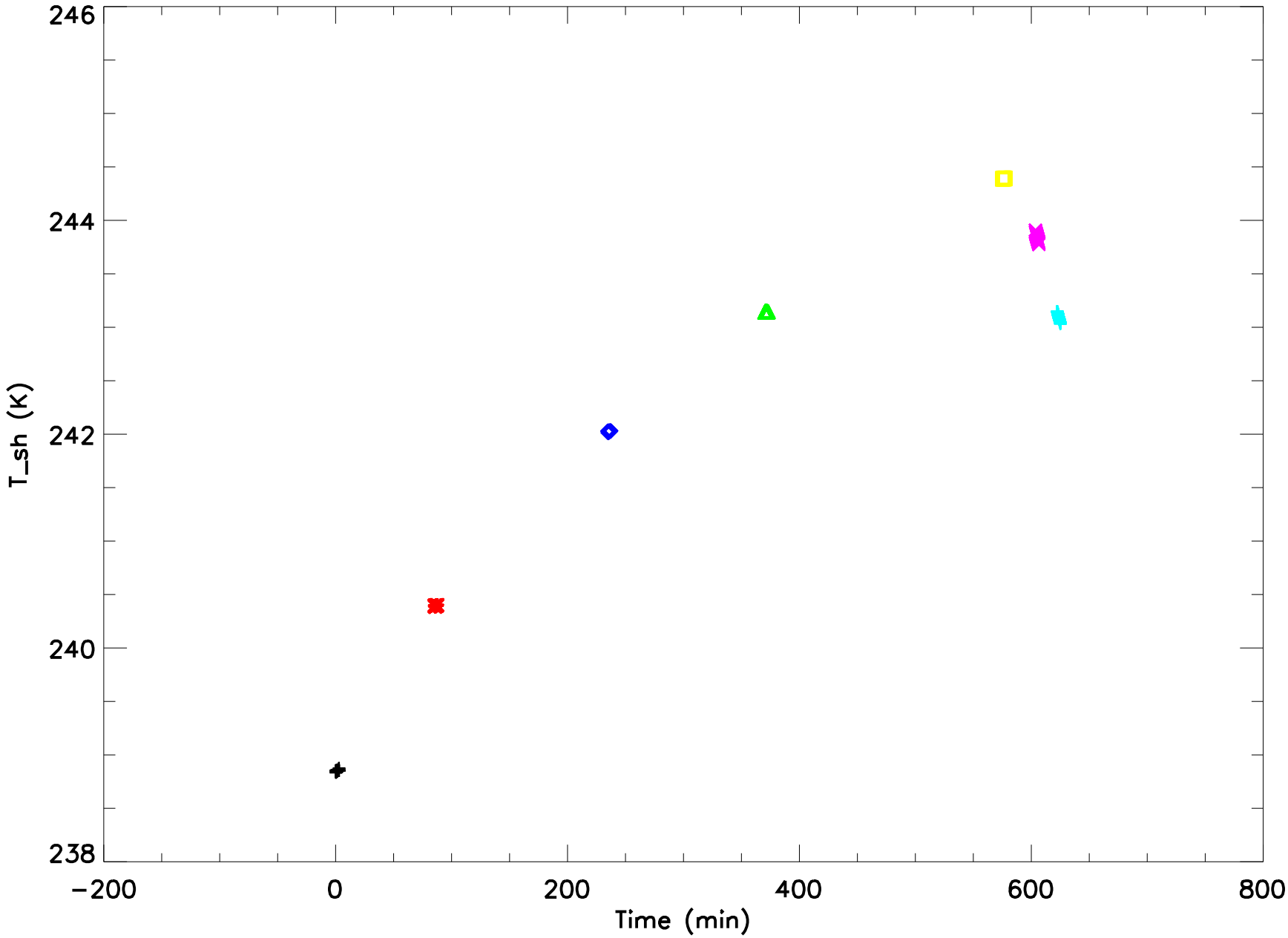

T_sh vs Scan and Collect
246
244
242
240
238
T_sh (K)
0
200
400
600
800
Collect*scan

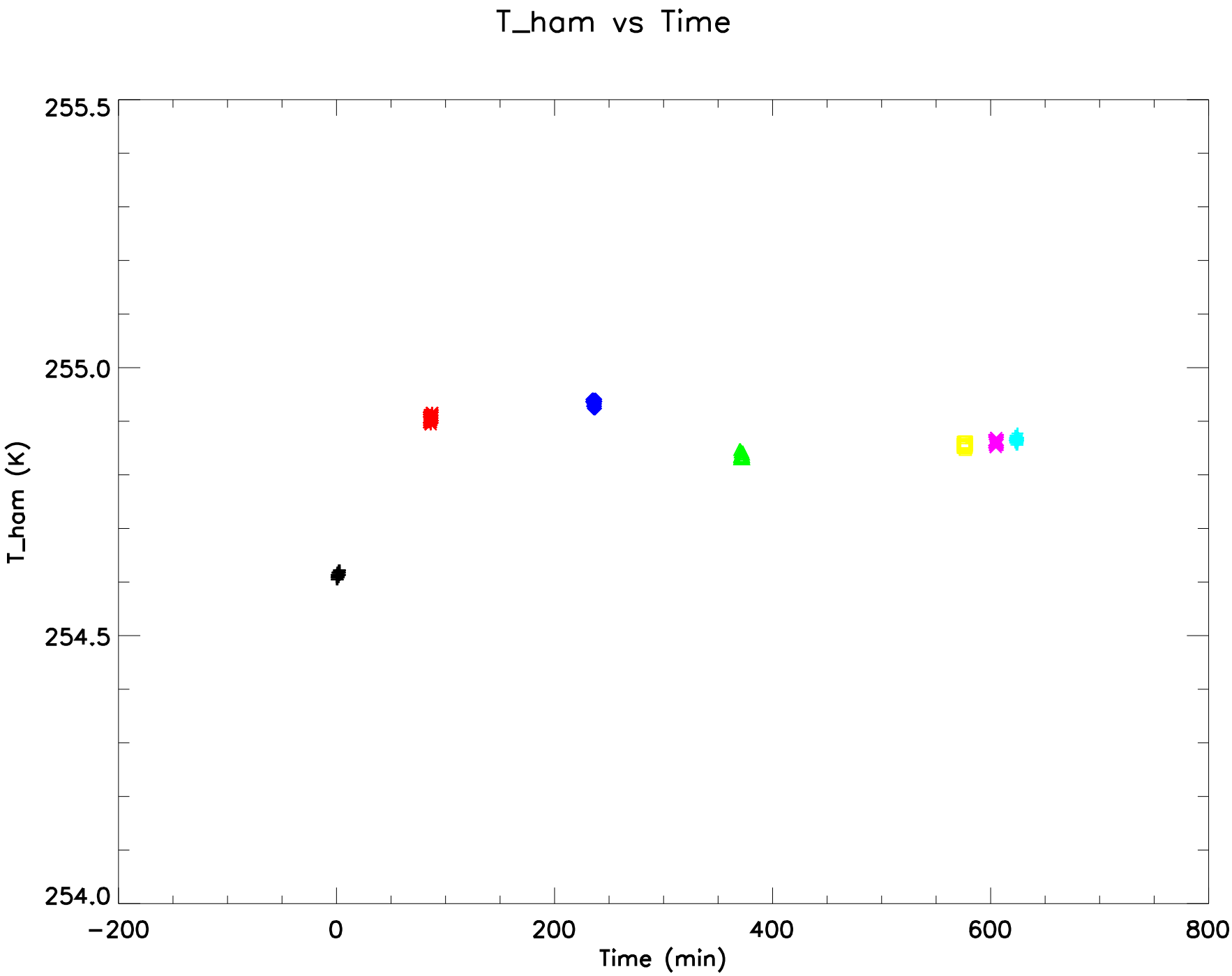

T_ham vs Scan and Collect
255.5
255.0
254.5
254.0
T_ham (K)
0
200
400
600
800
Collect*scan

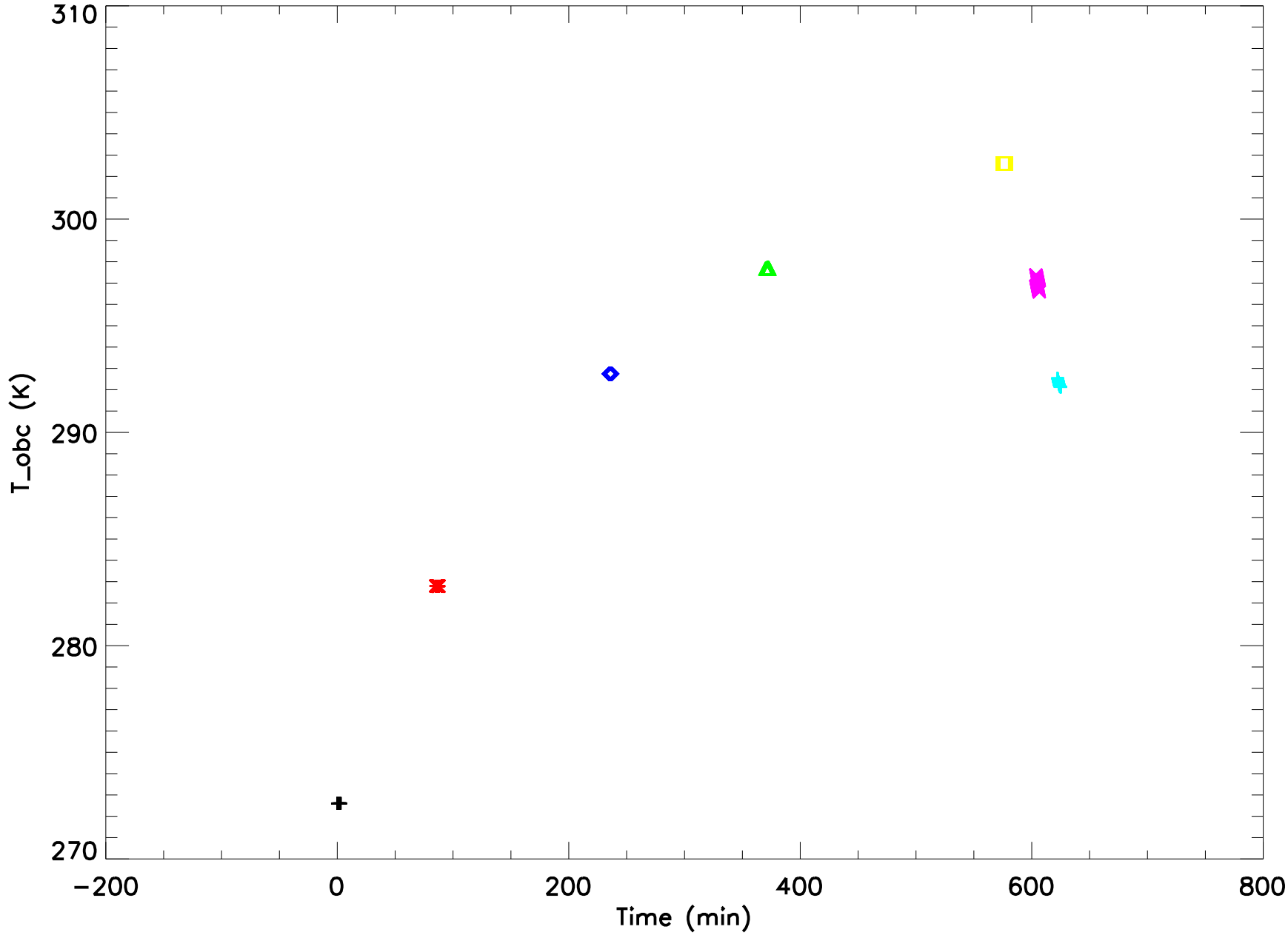

T_obc vs Scan and Collect
310
300
290
280
270
T_obc (K)
0
200
400
600
800
Collect*scan


T_rta vs Time
238.5
238.0
237.5
237.0
236.5
236.0
235.5
T_rta (K)
−200
0
200
400
600
800
Time (min)

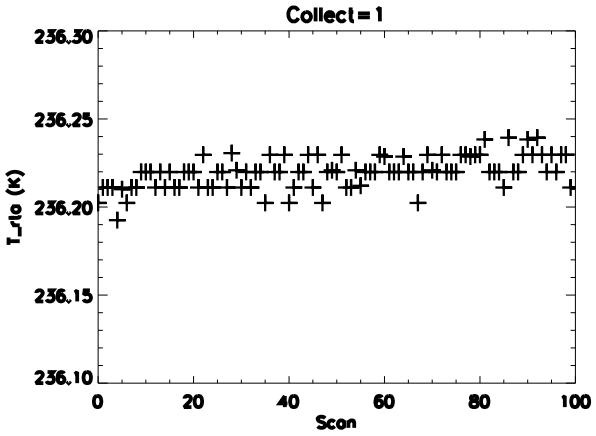

T_cav vs Time
242.5
242.0
241.5
241.0
240.5
240.0
239.5
T_cav (K)
−200
0
200
400
600
800
Time (min)

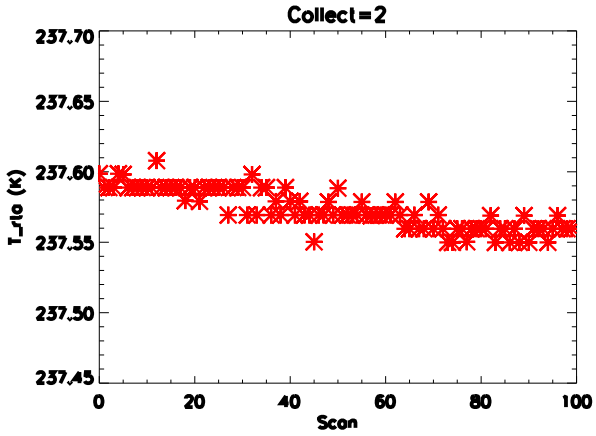

T_sh vs Time
246
244
242
240
238
T_sh (K)
−200
0
200
400
600
800
Time (min)

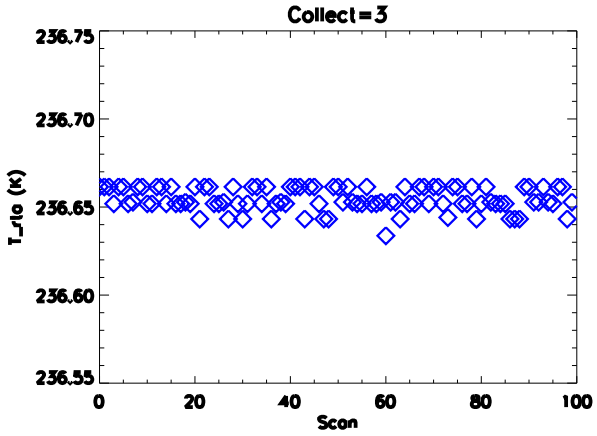

T_ham vs Time
255.5
255.0
254.5
254.0
T_ham (K)
−200
0
200
400
600
800
Time (min)

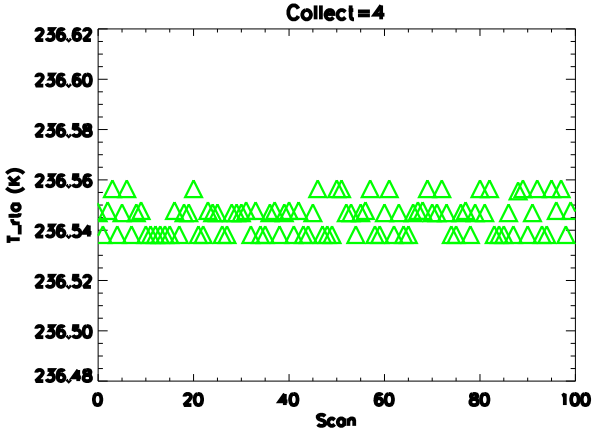

T_obc vs Time
310
300
290
280
270
T_obc (K)
−200
0
200
400
600
800
Time (min)

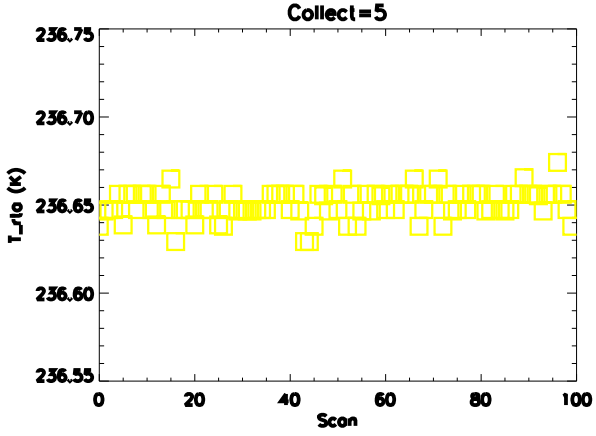
T_rta vs Scan

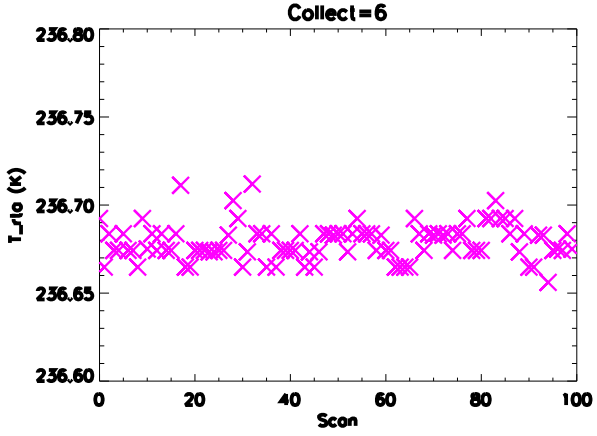

Collect=1
T_rta (K)
236.30
236.25
236.20
236.15
236.10
0
20
40
60
80
100
Scan

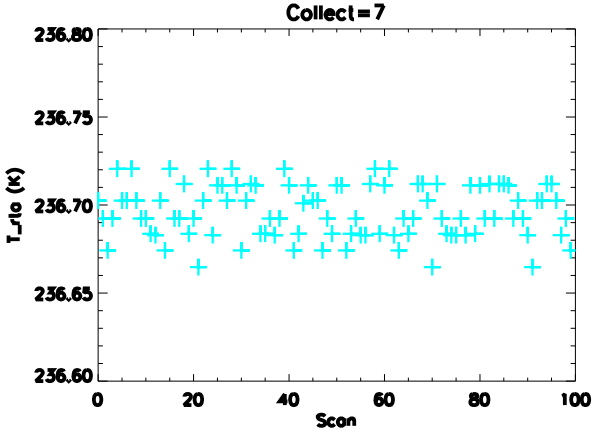

Collect=2
T_rta (K)
237.70
237.65
237.60
237.55
237.50
237.45
0
20
40
60
80
100
Scan


Collect=3
T_rta (K)
236.75
236.70
236.65
236.60
236.55
0
20
40
60
80
100
Scan

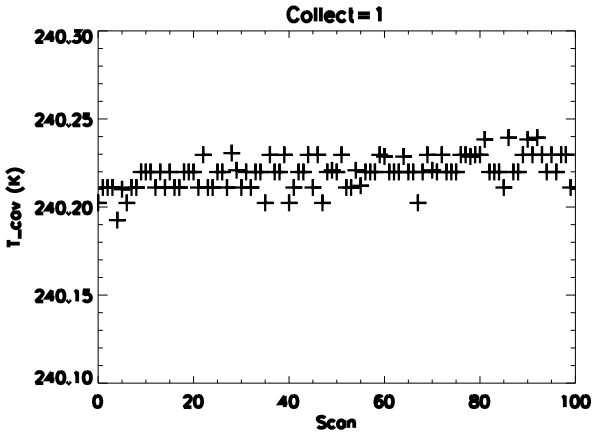

Collect=4
T_rta (K)
236.62
236.60
236.58
236.56
236.54
236.52
236.50
236.48
0
20
40
60
80
100
Scan

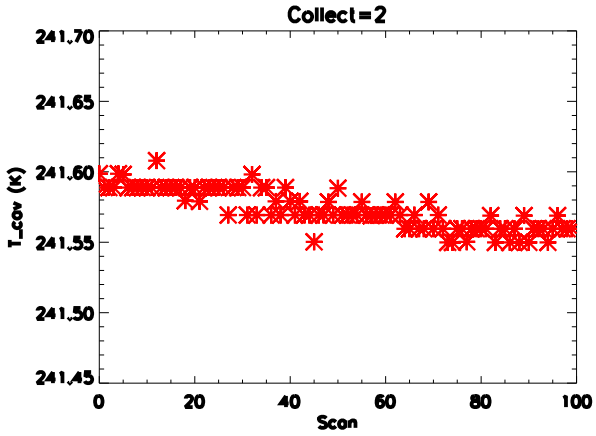

Collect=5
T_rta (K)
236.75
236.70
236.65
236.60
236.55
0
20
40
60
80
100
Scan

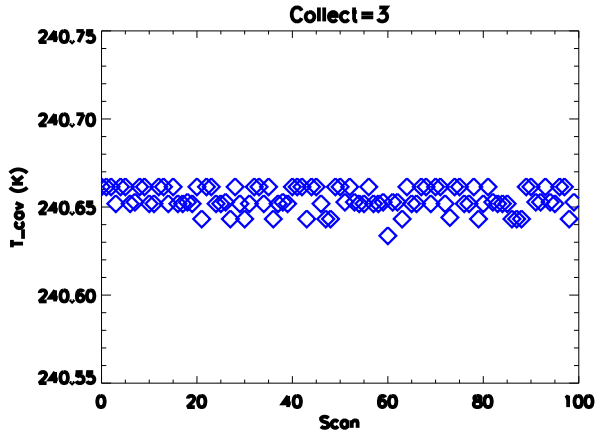

Collect=6
T_rta (K)
236.80
236.75
236.70
236.65
236.60
0
20
40
60
80
100
Scan

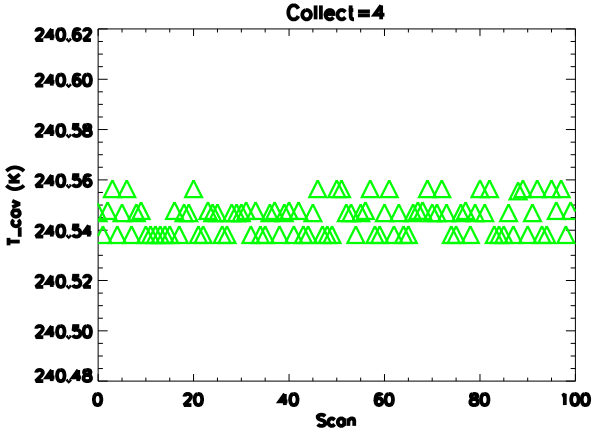

Collect=7
T_rta (K)
236.80
236.75
236.70
236.65
236.60
0
20
40
60
80
100
Scan

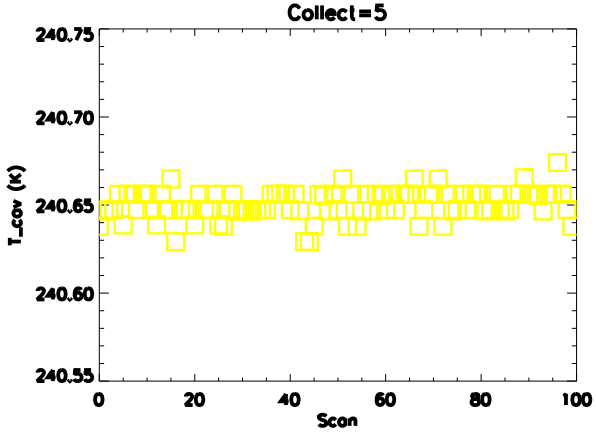
T_cav vs Scan

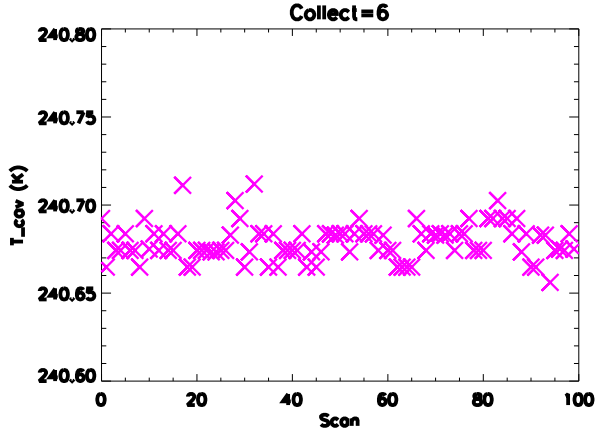

Collect=1
T_cav (K)
240.30
240.25
240.20
240.15
240.10
0
20
40
60
80
100
Scan

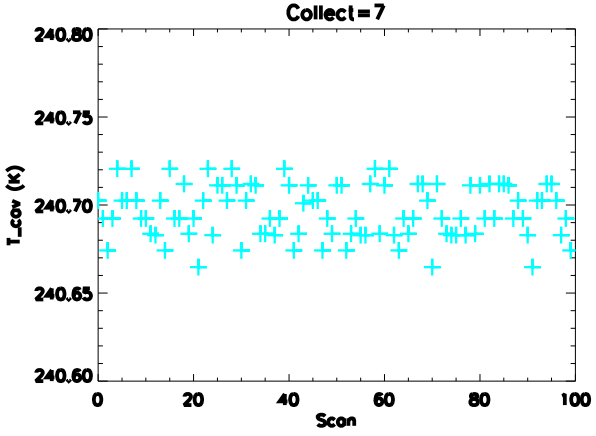

Collect=2
T_cav (K)
241.70
241.65
241.60
241.55
241.50
241.45
0
20
40
60
80
100
Scan


Collect=3
T_cav (K)
240.75
240.70
240.65
240.60
240.55
0
20
40
60
80
100
Scan

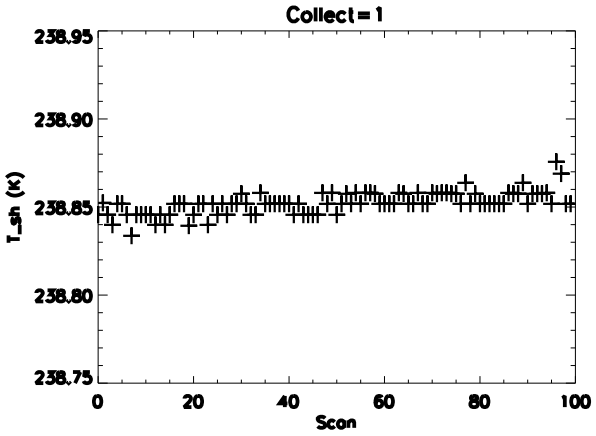

Collect=4
T_cav (K)
240.62
240.60
240.58
240.56
240.54
240.52
240.50
240.48
0
20
40
60
80
100
Scan

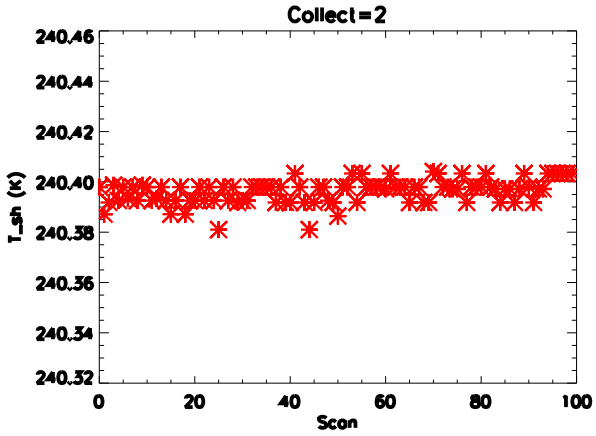

Collect=5
T_cav (K)
240.75
240.70
240.65
240.60
240.55
0
20
40
60
80
100
Scan

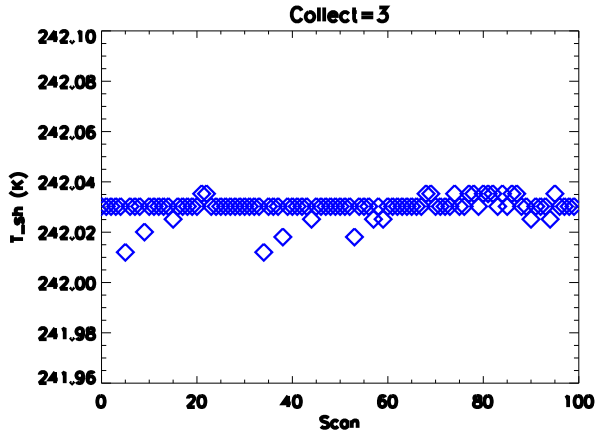

Collect=6
T_cav (K)
240.80
240.75
240.70
240.65
240.60
0
20
40
60
80
100
Scan

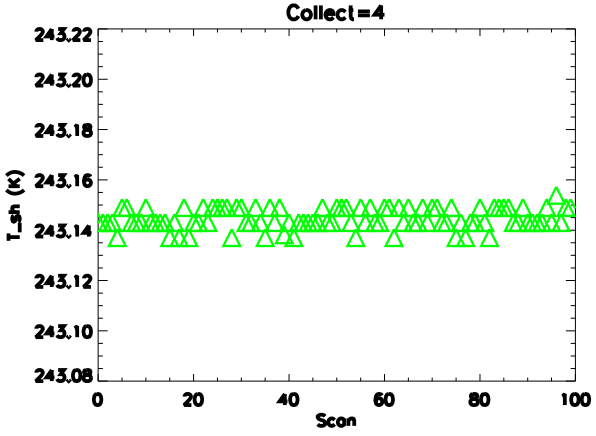

Collect=7
T_cav (K)
240.80
240.75
240.70
240.65
240.60
0
20
40
60
80
100
Scan

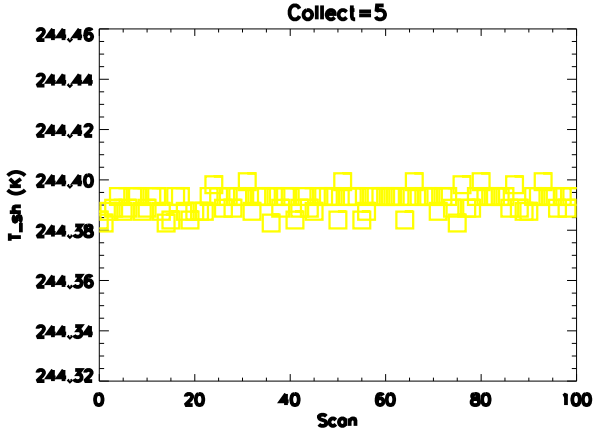
T_sh vs Scan

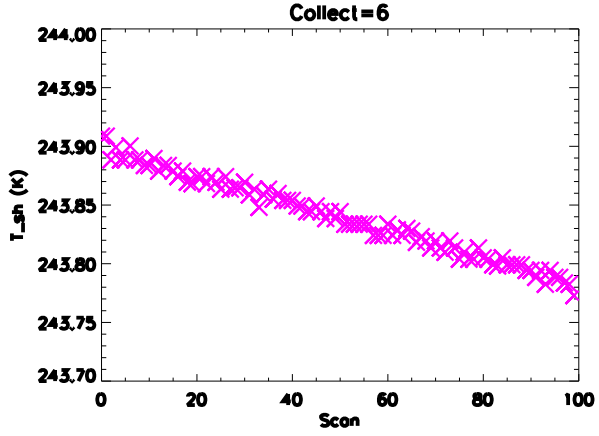

Collect=1
T_sh (K)
238.95
238.90
238.85
238.80
238.75
0
20
40
60
80
100
Scan

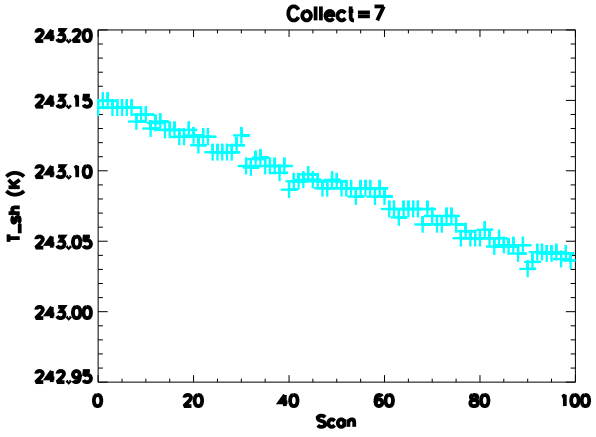

Collect=2
T_sh (K)
240.46
240.44
240.42
240.40
240.38
240.36
240.34
240.32
0
20
40
60
80
100
Scan


Collect=3
T_sh (K)
242.10
242.08
242.06
242.04
242.02
242.00
241.98
241.96
0
20
40
60
80
100
Scan

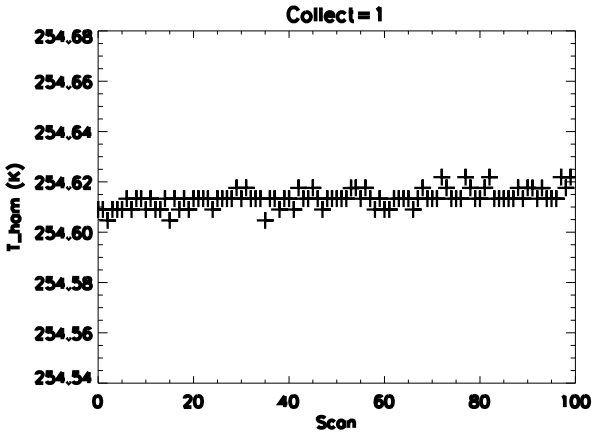

Collect=4
T_sh (K)
243.22
243.20
243.18
243.16
243.14
243.12
243.10
243.08
0
20
40
60
80
100
Scan

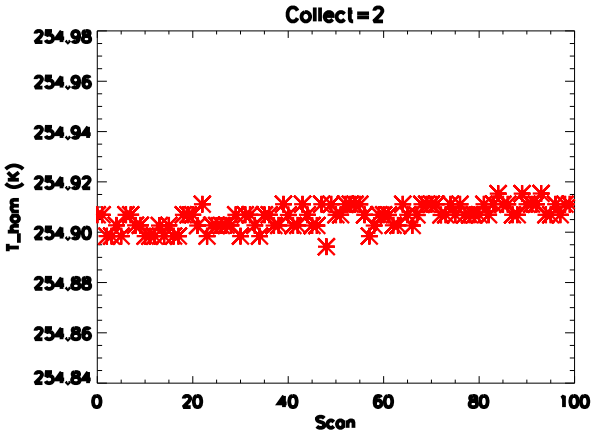

Collect=5
T_sh (K)
244.46
244.44
244.42
244.40
244.38
244.36
244.34
244.32
0
20
40
60
80
100
Scan

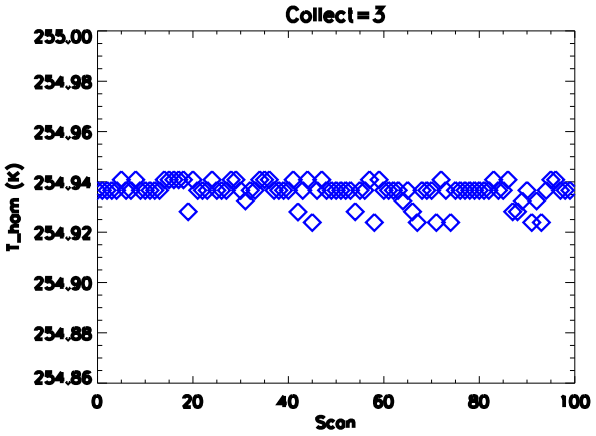

Collect=6
T_sh (K)
244.00
243.95
243.90
243.85
243.80
243.75
243.70
0
20
40
60
80
100
Scan

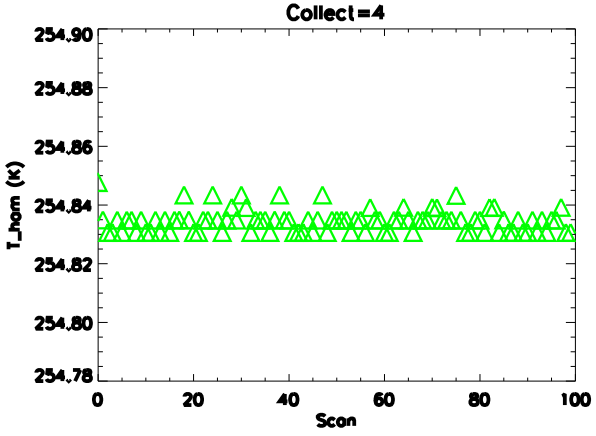

Collect=7
T_sh (K)
243.20
243.15
243.10
243.05
243.00
242.95
0
20
40
60
80
100
Scan

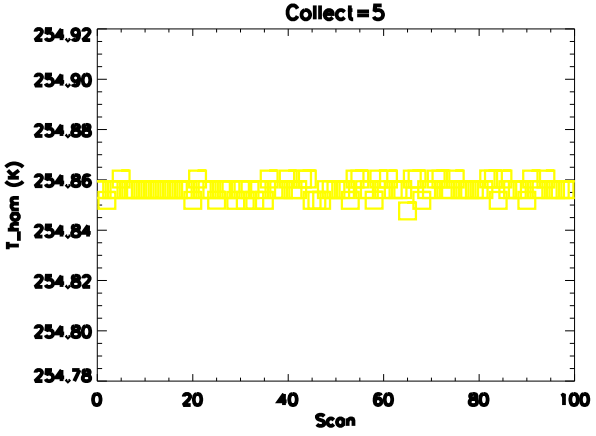
T_ham vs Scan

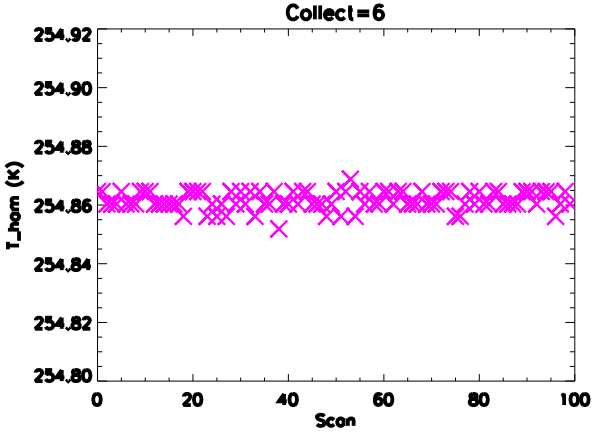

Collect=1
T_ham (K)
254.68
254.66
254.64
254.62
254.60
254.58
254.56
254.54
0
20
40
60
80
100
Scan

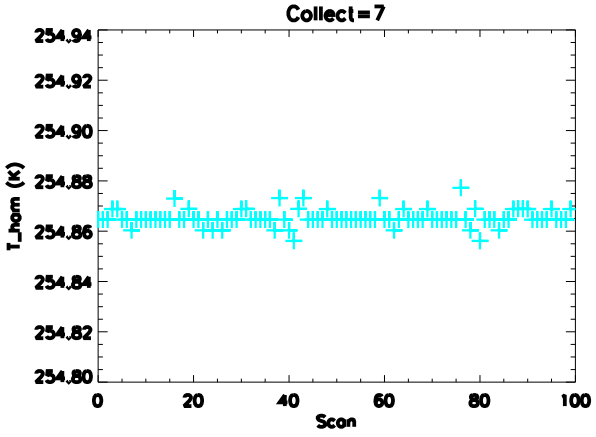

Collect=2
T_ham (K)
254.98
254.96
254.94
254.92
254.90
254.88
254.86
254.84
0
20
40
60
80
100
Scan


Collect=3
T_ham (K)
255.00
254.98
254.96
254.94
254.92
254.90
254.88
254.86
0
20
40
60
80
100
Scan

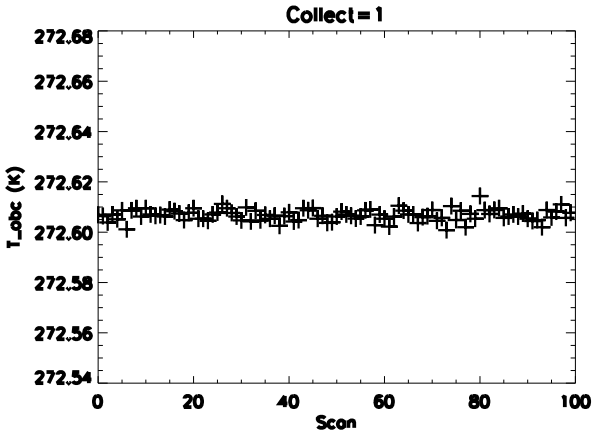

Collect=4
T_ham (K)
254.90
254.88
254.86
254.84
254.82
254.80
254.78
0
20
40
60
80
100
Scan

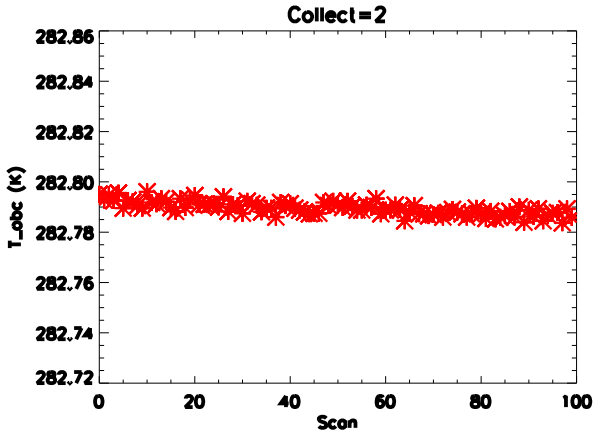

Collect=5
T_ham (K)
254.92
254.90
254.88
254.86
254.84
254.82
254.80
254.78
0
20
40
60
80
100
Scan

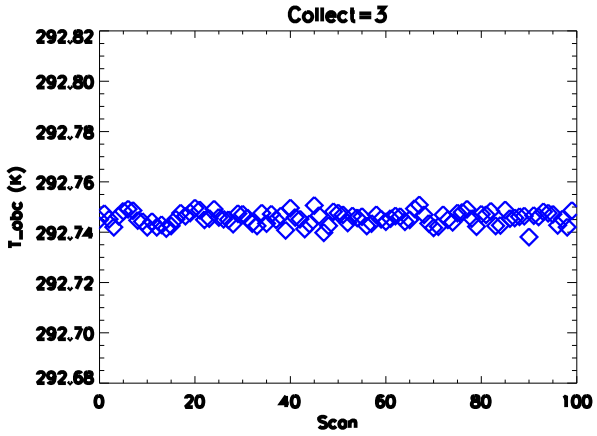

Collect=6
T_ham (K)
254.92
254.90
254.88
254.86
254.84
254.82
254.80
0
20
40
60
80
100
Scan

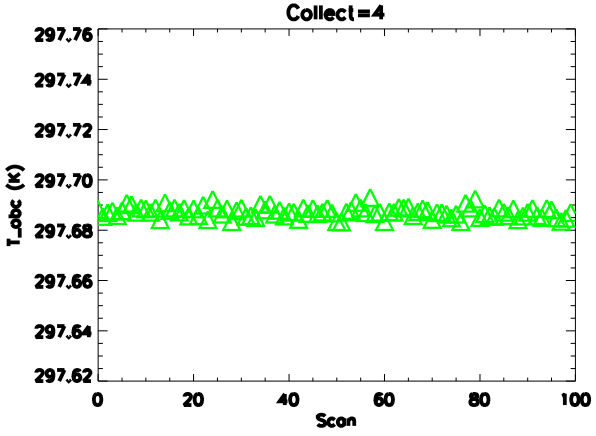

Collect=7
T_ham (K)
254.94
254.92
254.90
254.88
254.86
254.84
254.82
254.80
0
20
40
60
80
100
Scan

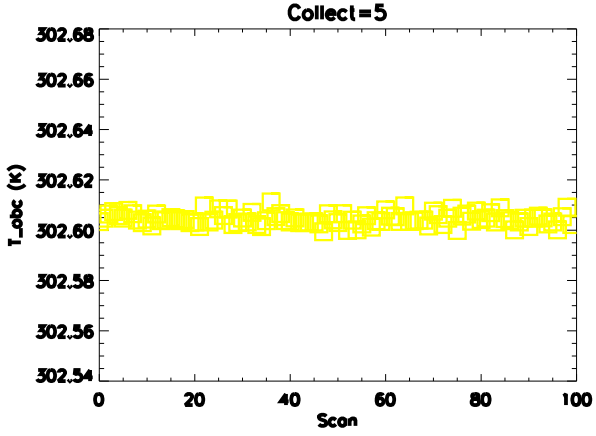
T_obc vs Scan

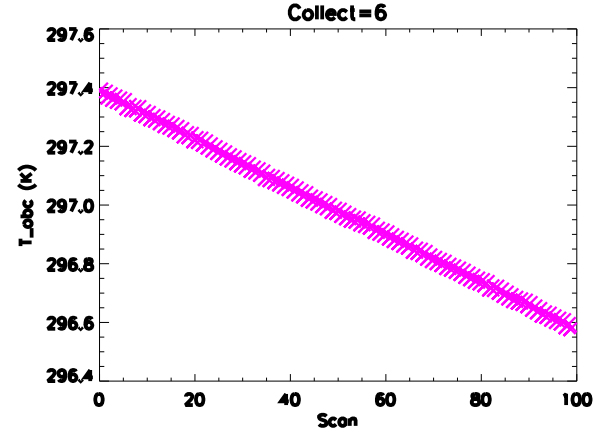

Collect=1
T_obc (K)
272.68
272.66
272.64
272.62
272.60
272.58
272.56
272.54
0
20
40
60
80
100
Scan

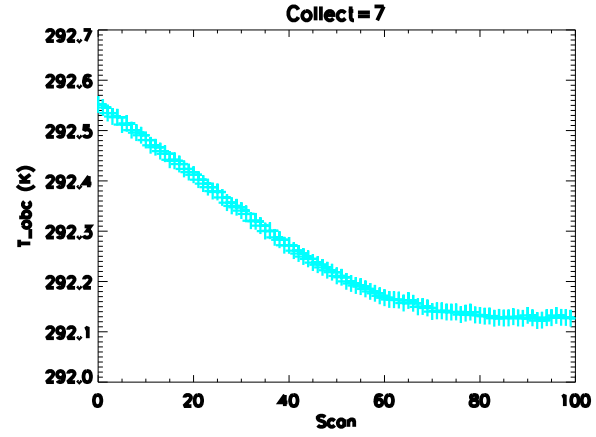

Collect=2
T_obc (K)
282.86
282.84
282.82
282.80
282.78
282.76
282.74
282.72
0
20
40
60
80
100
Scan

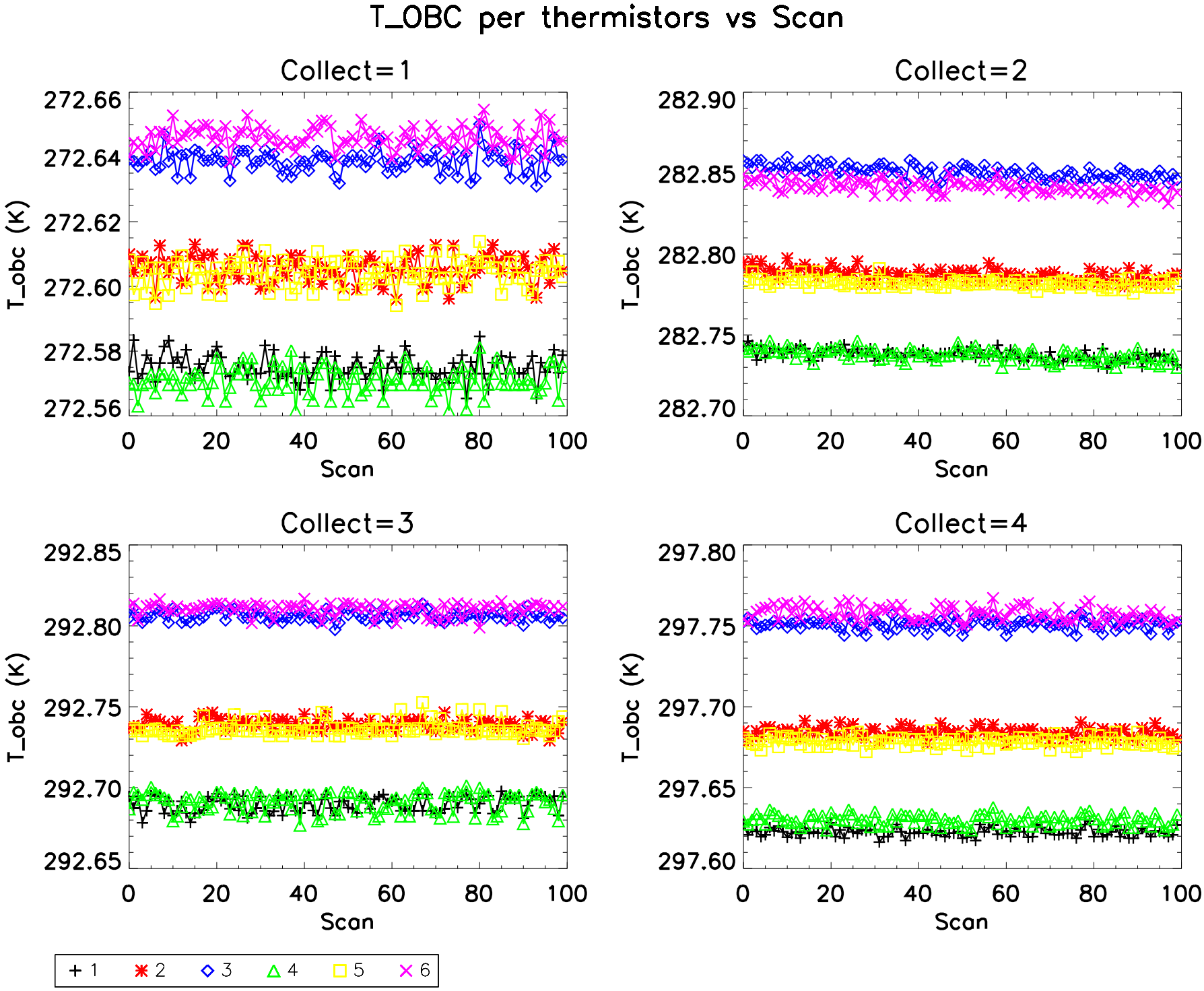

Collect=3
T_obc (K)
292.82
292.80
292.78
292.76
292.74
292.72
292.70
292.68
0
20
40
60
80
100
Scan


Collect=4
T_obc (K)
297.76
297.74
297.72
297.70
297.68
297.66
297.64
297.62
0
20
40
60
80
100
Scan

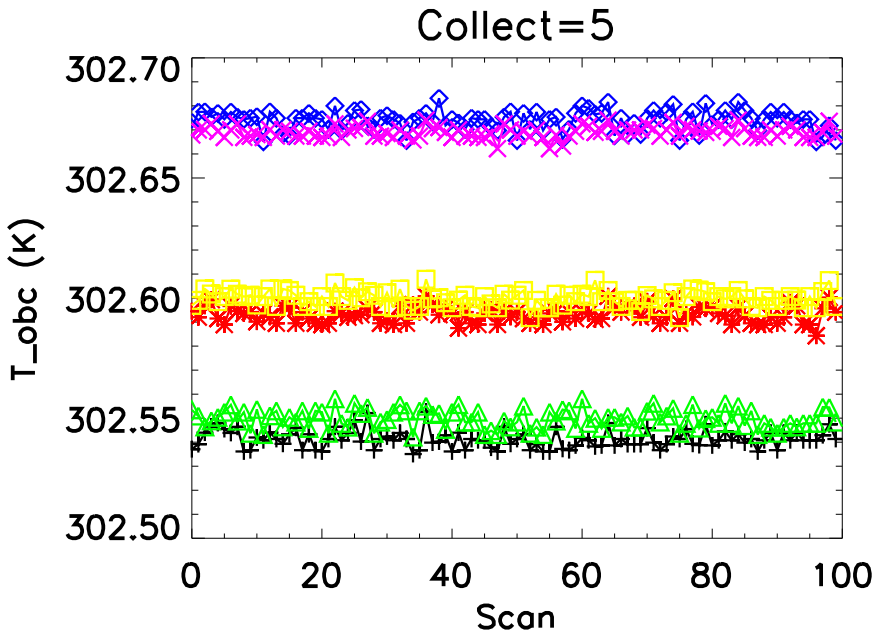

Collect=5
T_obc (K)
302.68
302.66
302.64
302.62
302.60
302.58
302.56
302.54
0
20
40
60
80
100
Scan

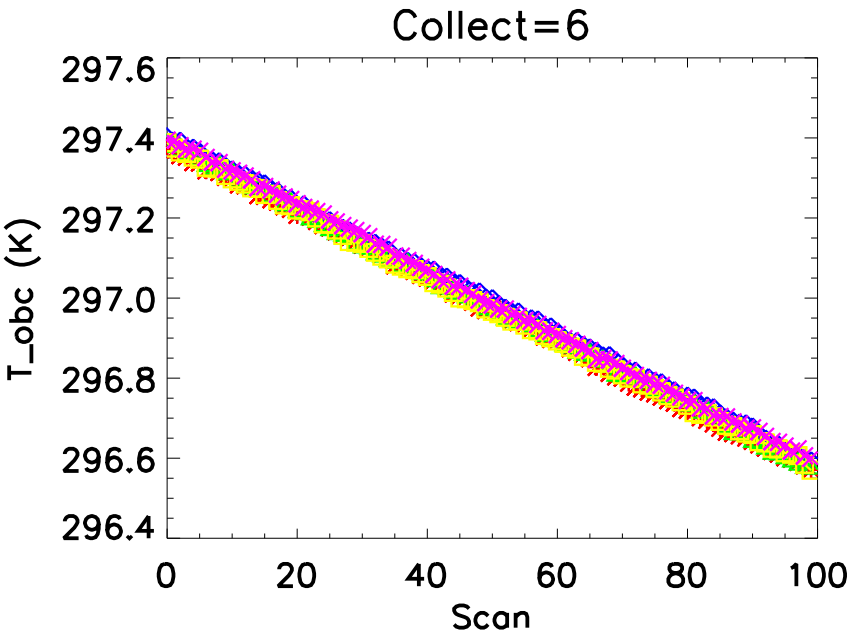

Collect=6
T_obc (K)
297.6
297.4
297.2
297.0
296.8
296.6
296.4
0
20
40
60
80
100
Scan

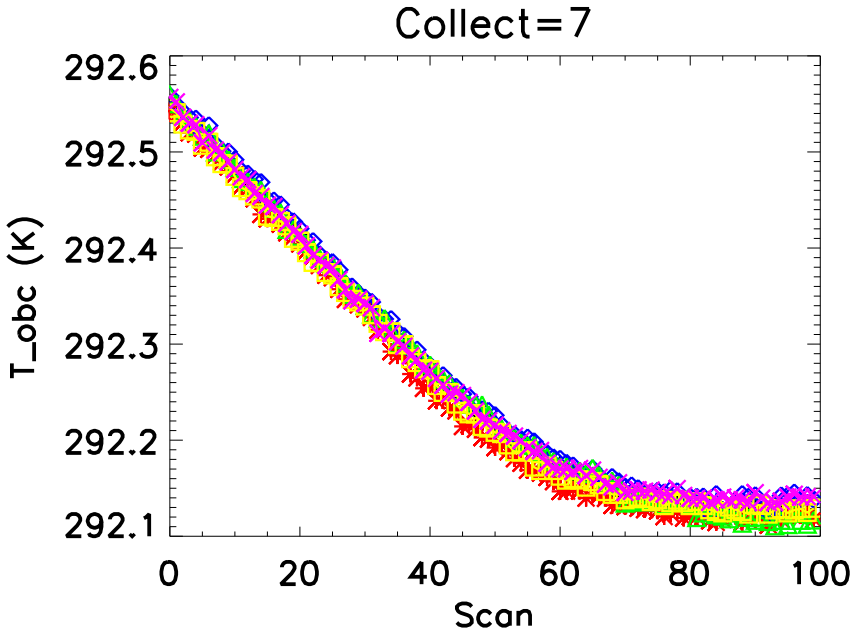

Collect=7
T_obc (K)
292.7
292.6
292.5
292.4
292.3
292.2
292.1
292.0
0
20
40
60
80
100
Scan

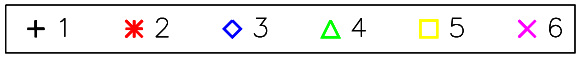

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
Scan
272.66
272.64
272.62
272.60
272.58
272.56
282.90
282.85
282.80
282.75
282.70
292.85
292.80
292.75
292.70
292.65
297.80
297.75
297.70
297.65
297.60
0
20
40
60
80
100
1
2
3
4
5
6

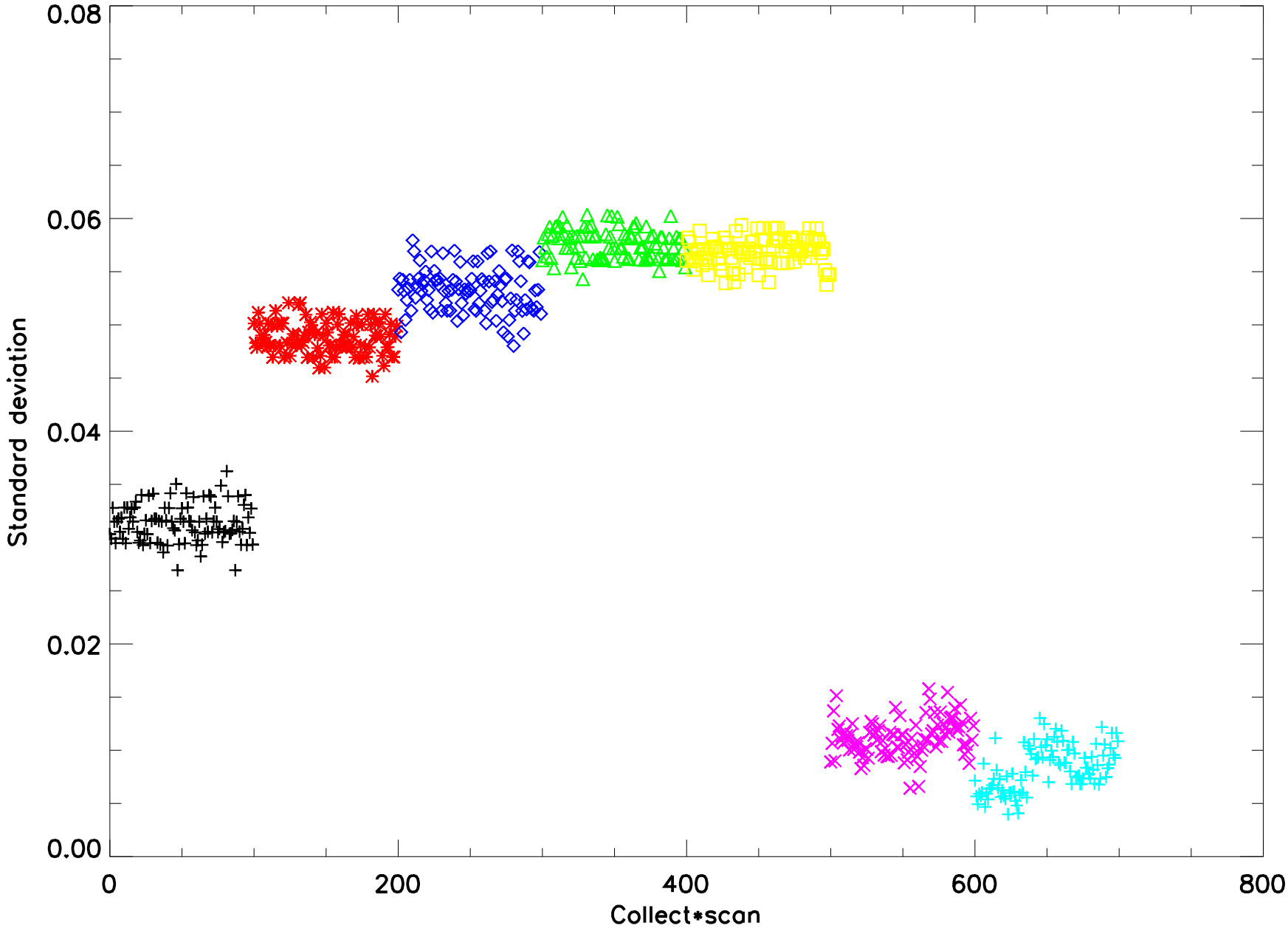
T_OBC per thermistors vs Scan

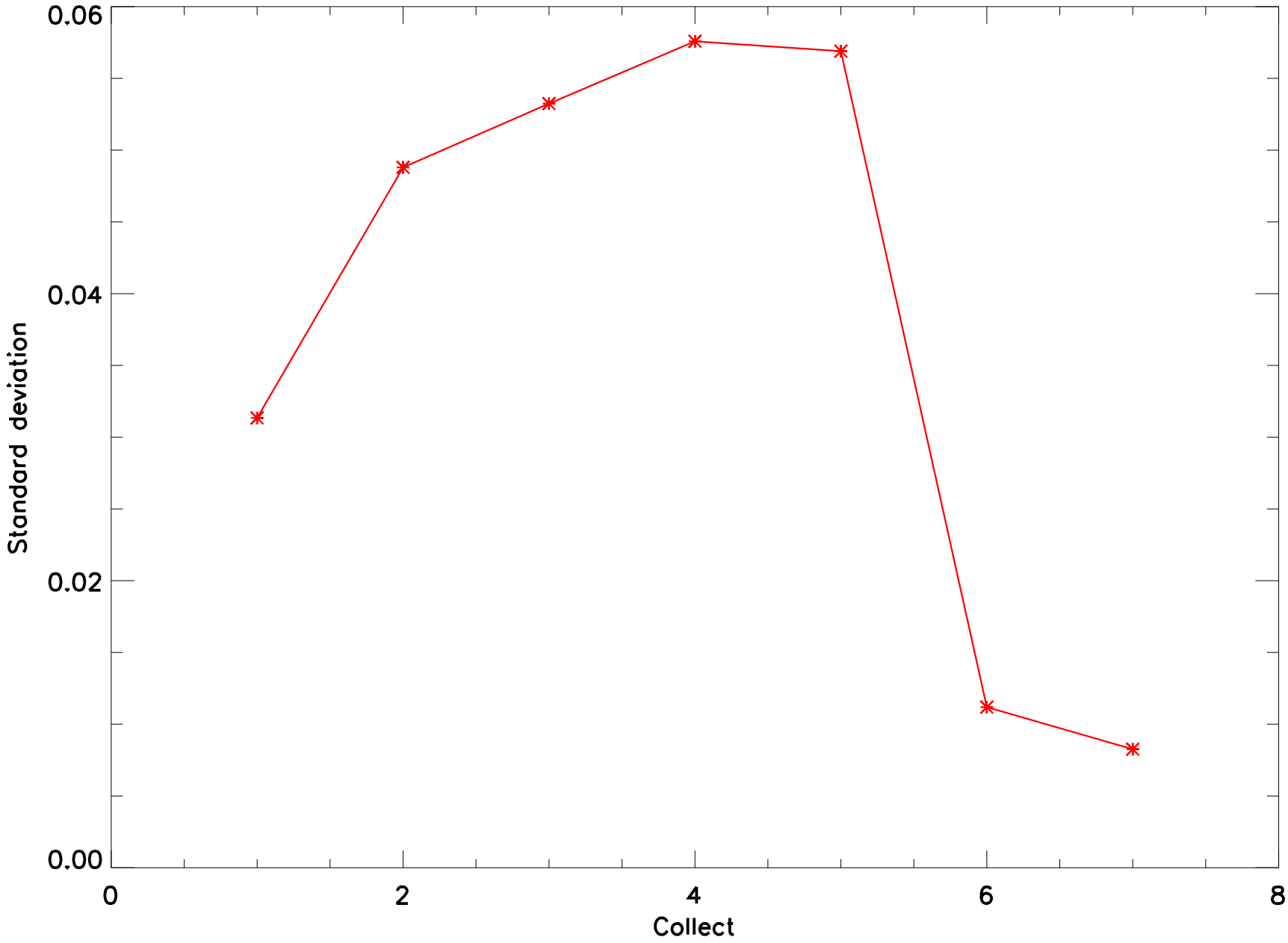


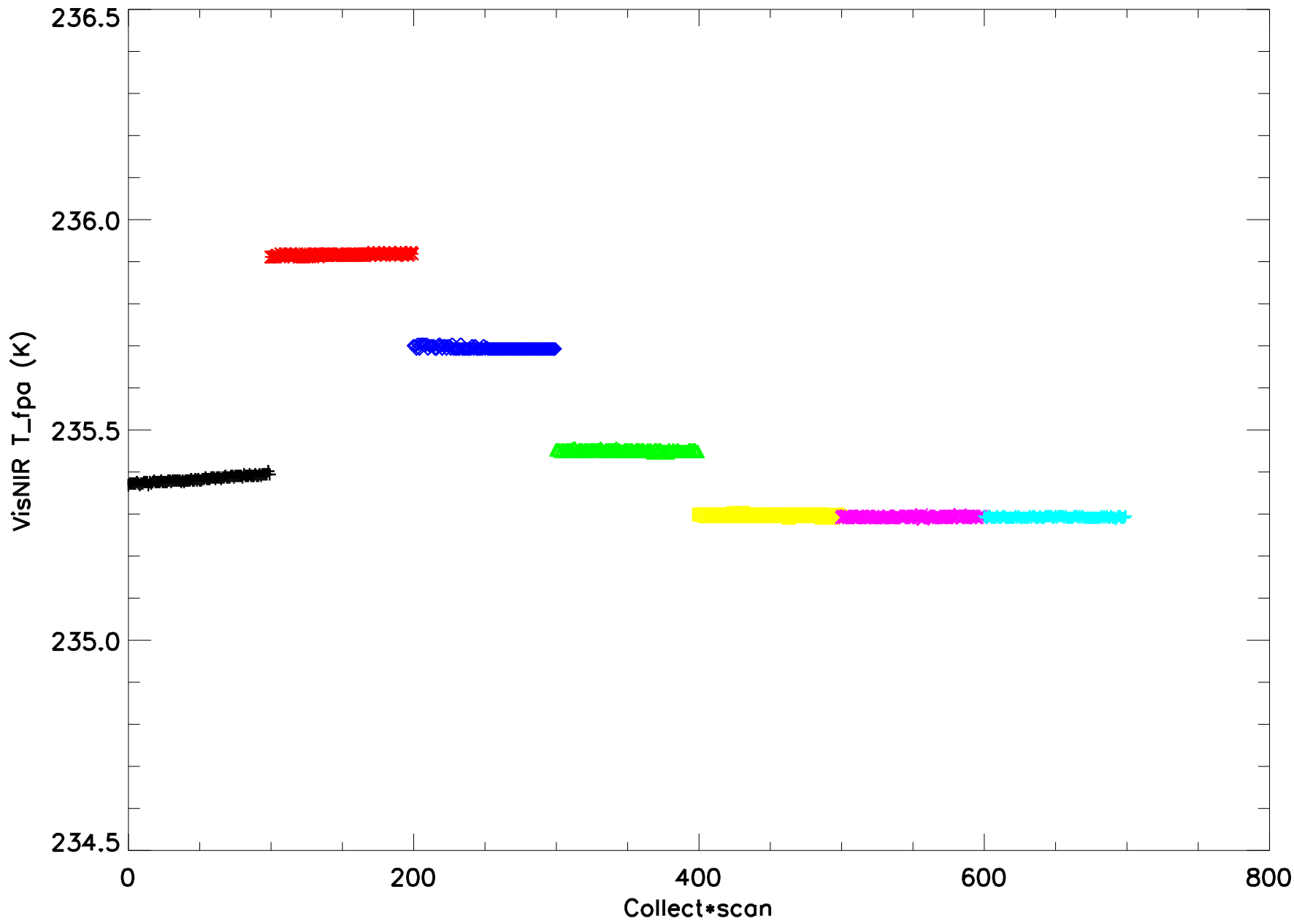


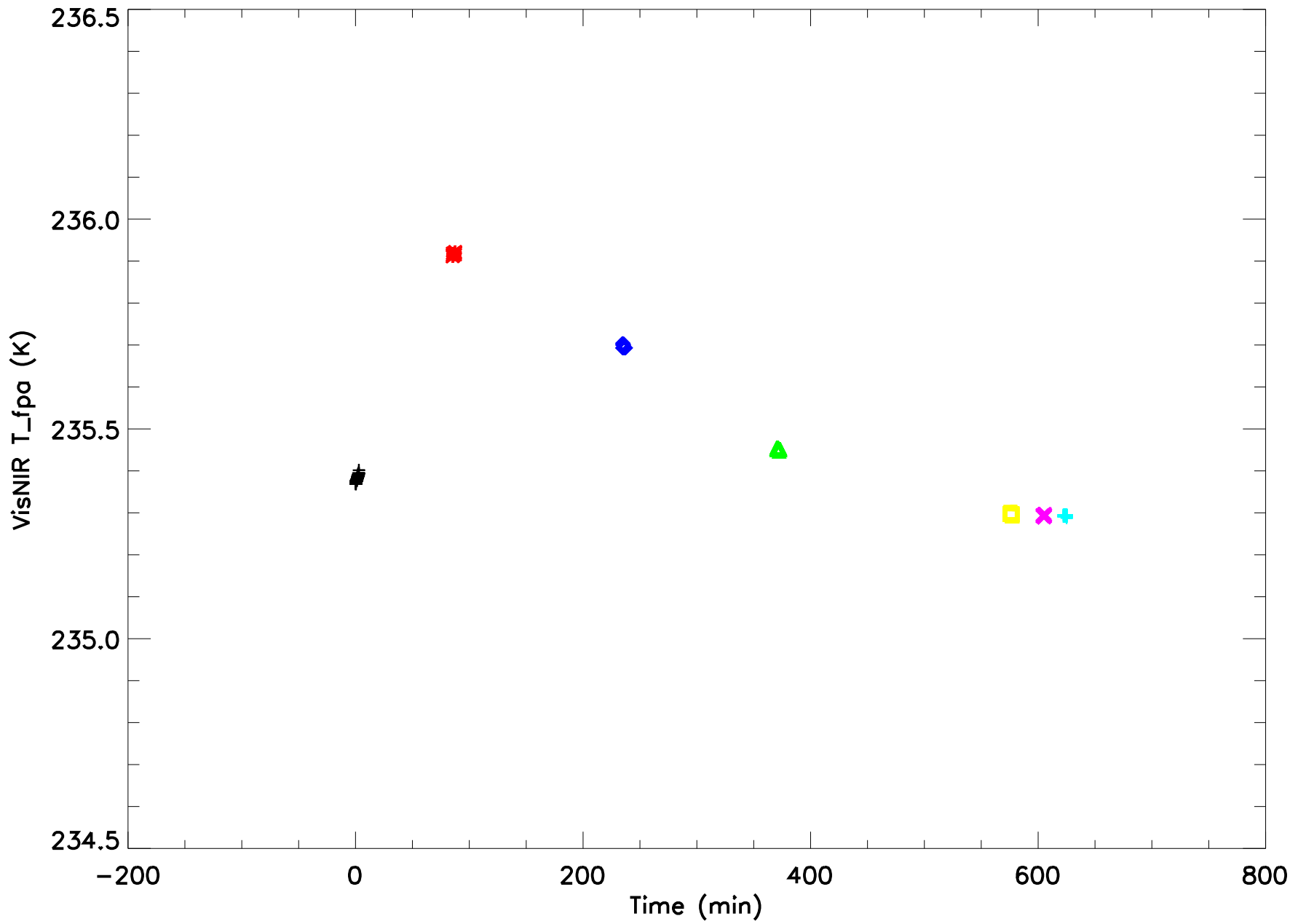




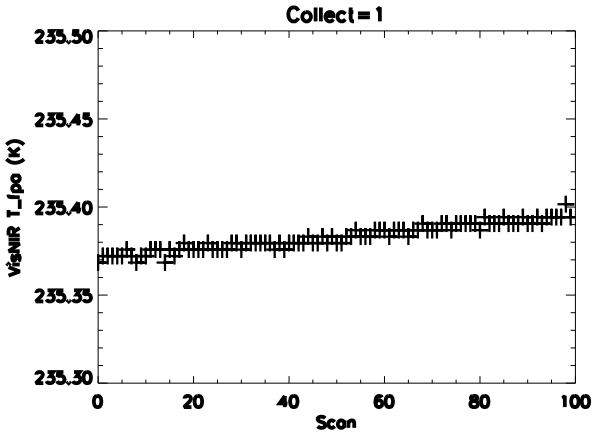

OBC thermistor standard deviation vs Scan and Collect
Standard deviation
0.08
0.06
0.04
0.02
0.00
0
200
400
600
800
Collect*scan

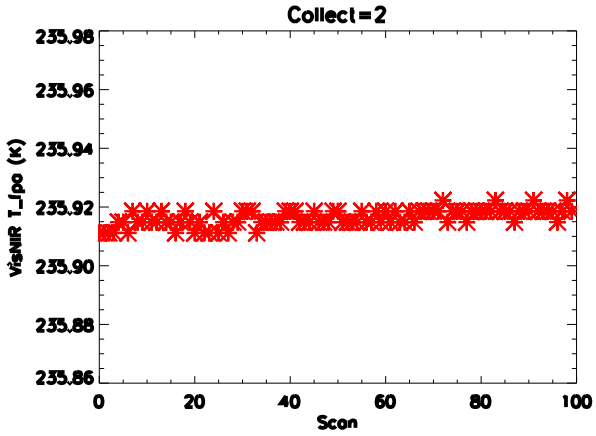

OBC thermistor standard deviation vs Collect
0.06
0.04
0.02
0.00
Standard deviation
0
2
4
6
8
Collect

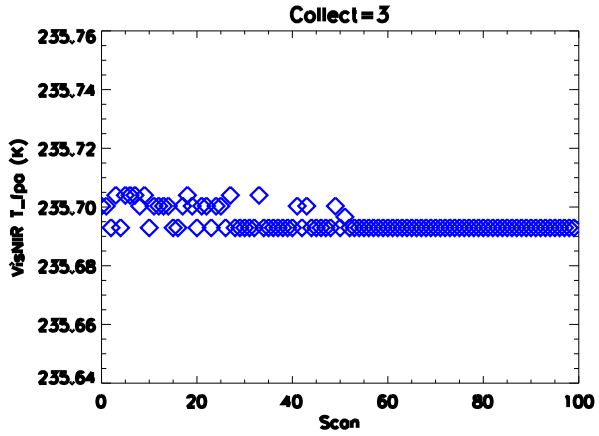

VisNIR T_fpa vs Scan and Collect
236.5
236.0
235.5
235.0
234.5
VisNIR T_fpa (K)
0
200
400
600
800
Collect*scan

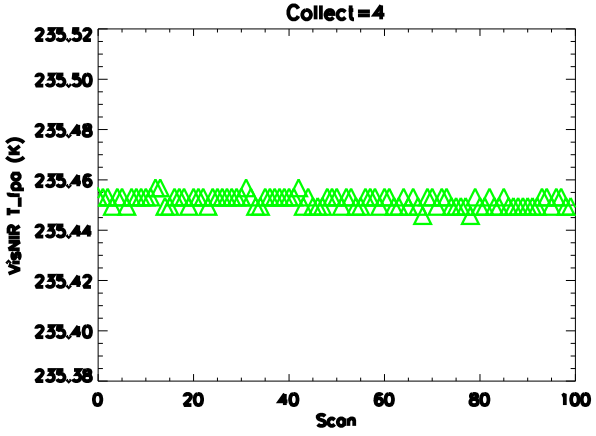

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
236.5
236.0
235.5
235.0
234.5
−200
0
200
400
600
800
Time (min)

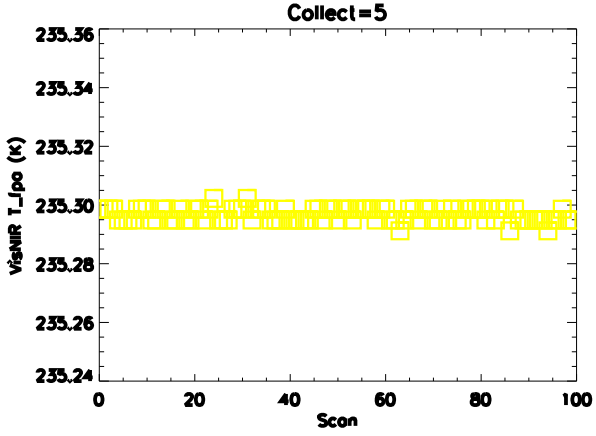
VisNIR T_fpa vs Scan

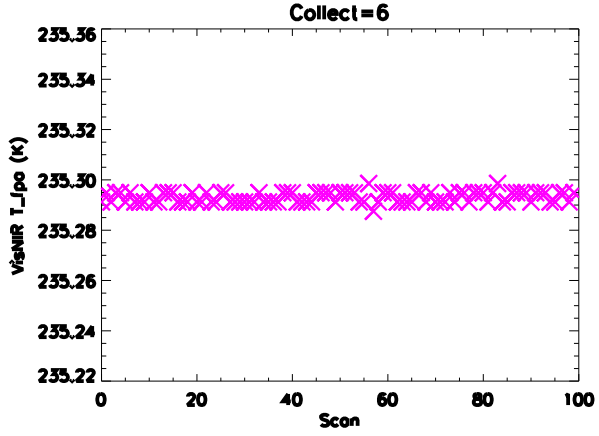


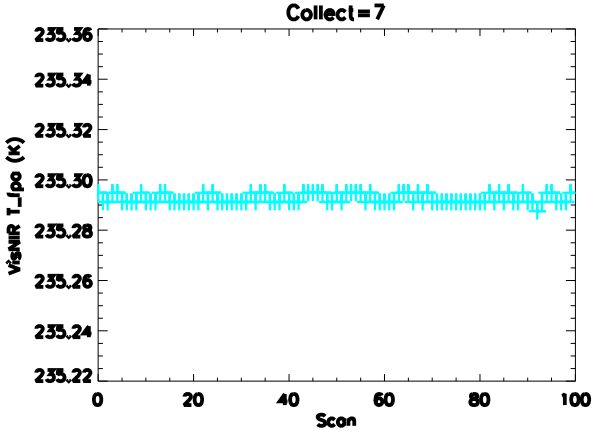


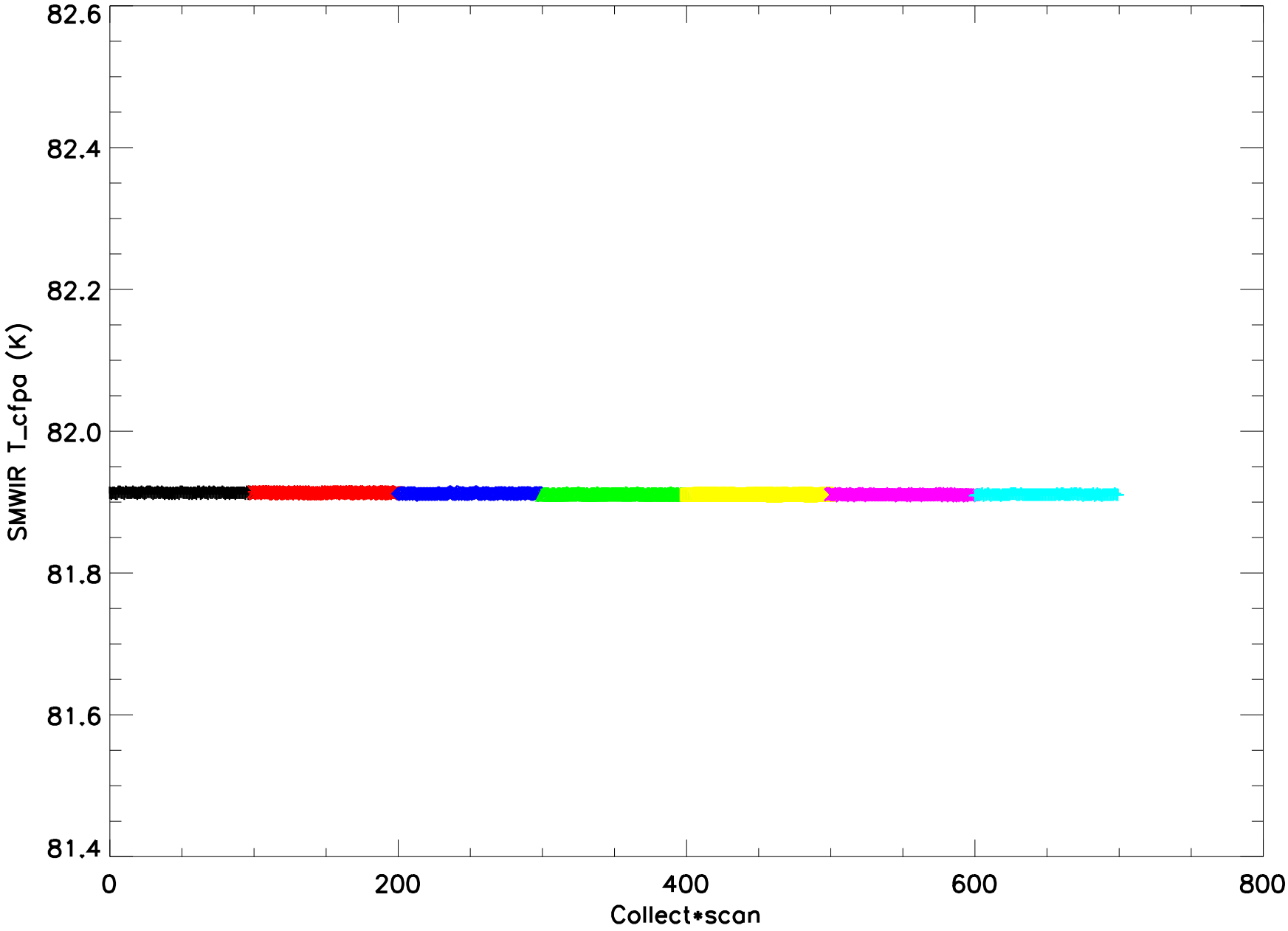


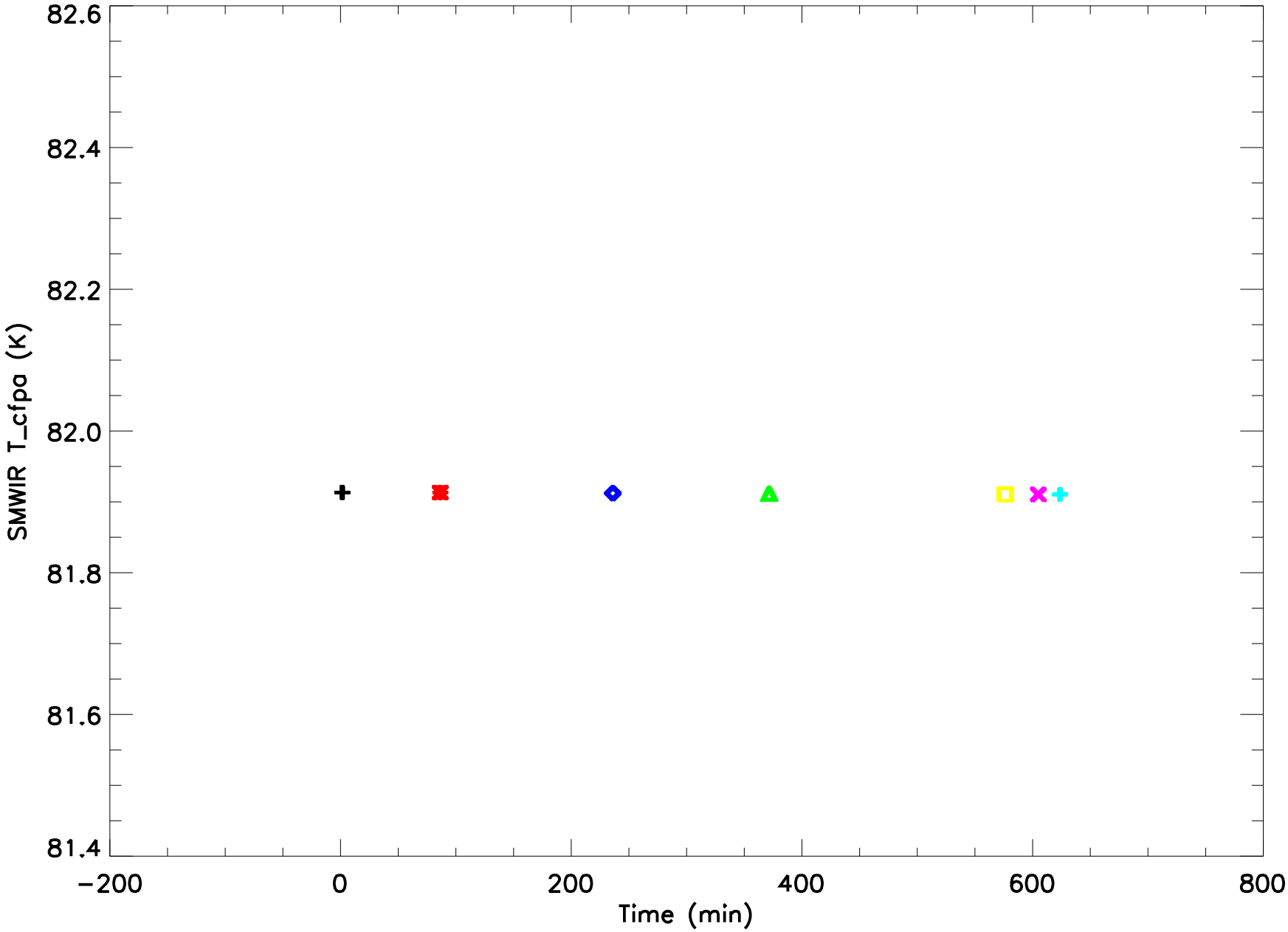




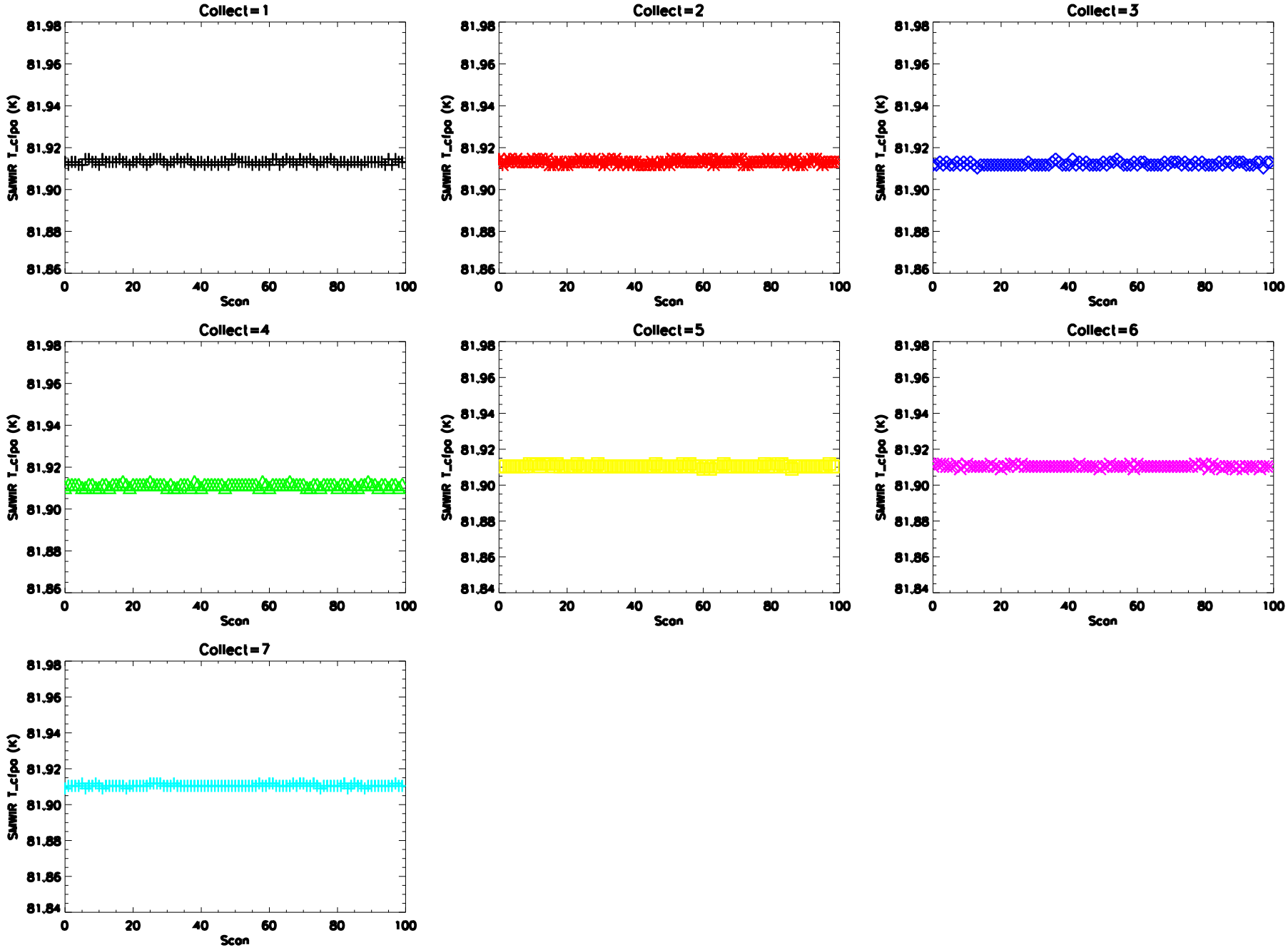


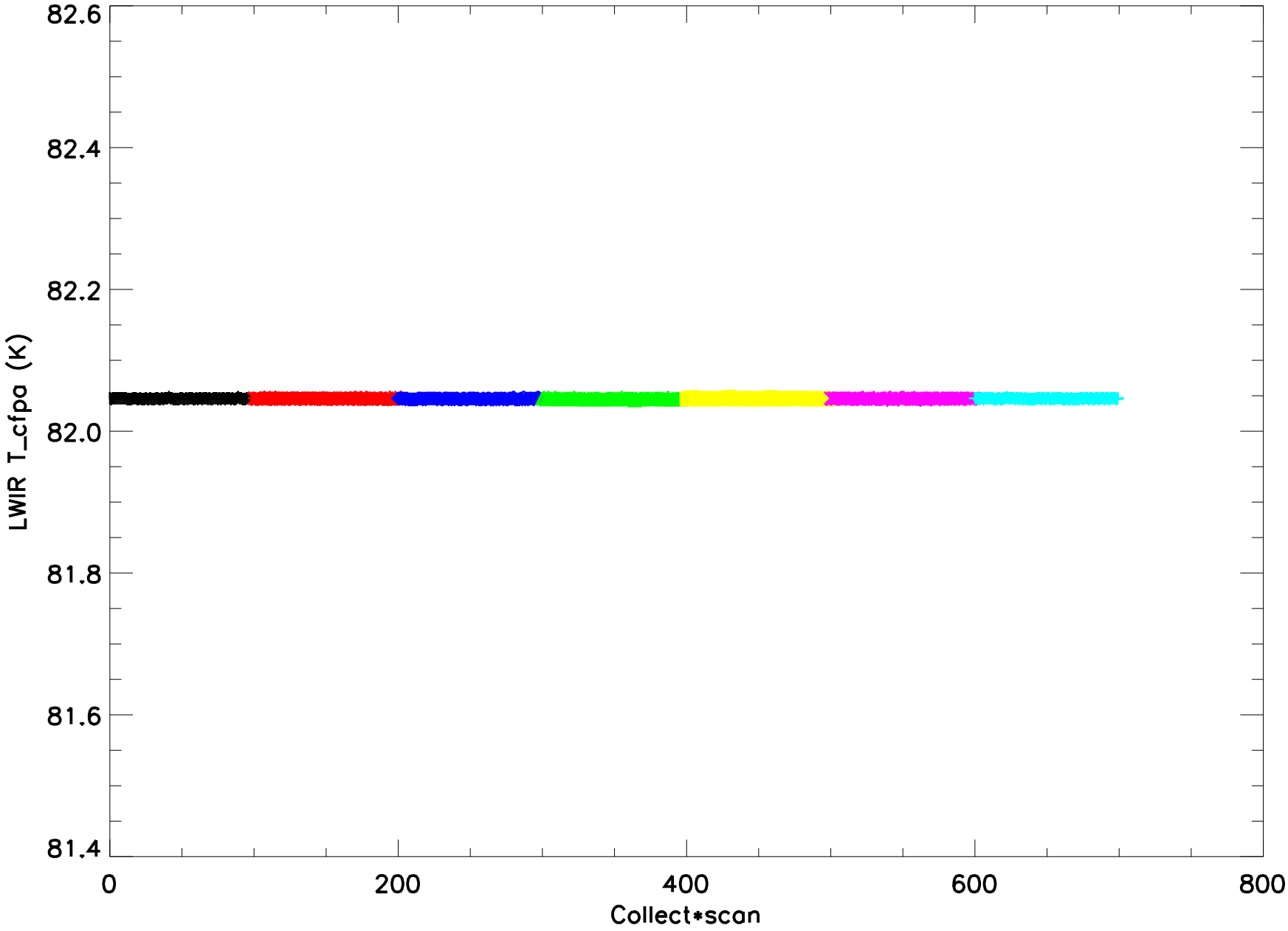


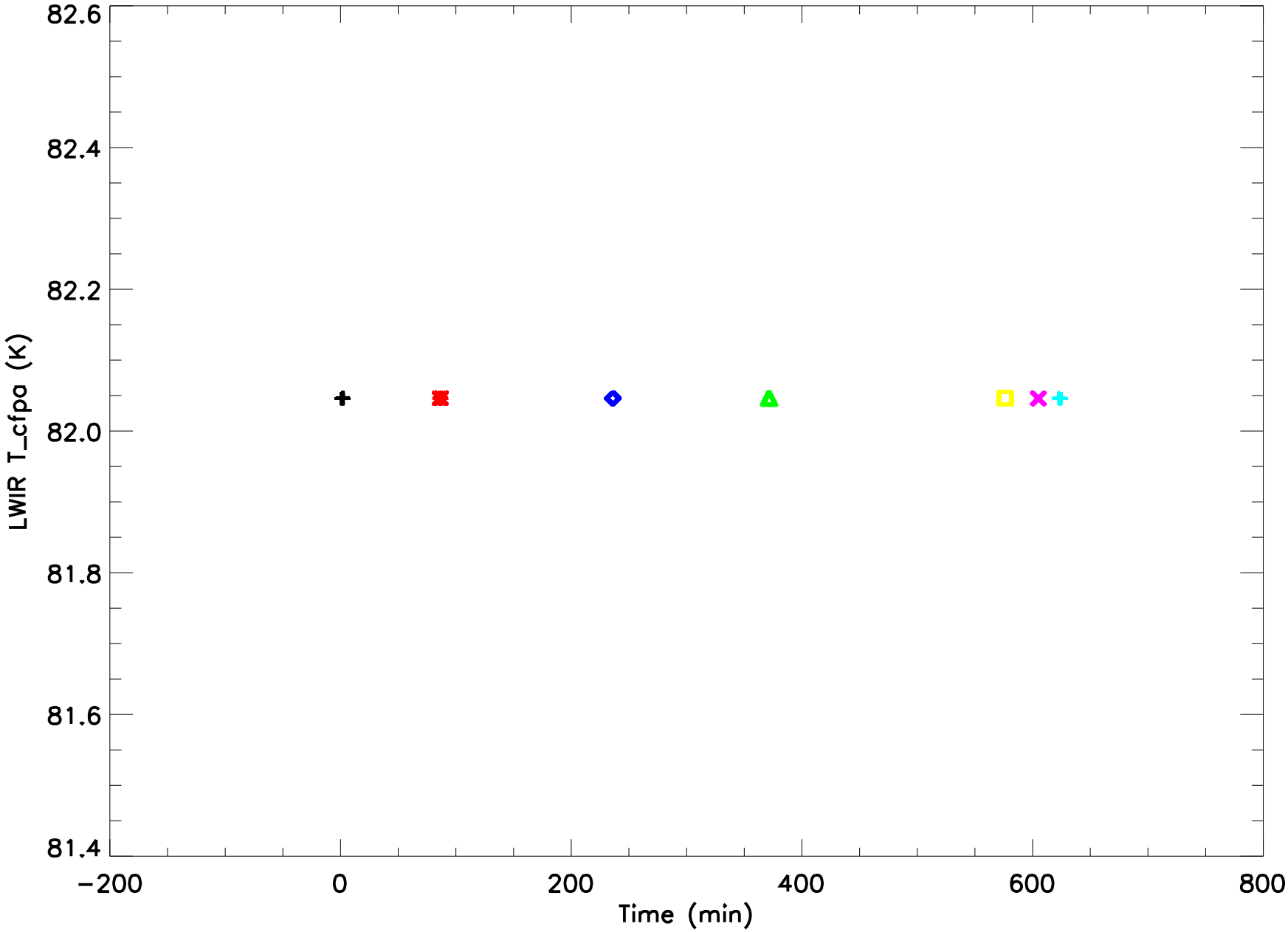

SMWIR T_cfpa vs Scan and Collect
82.6
82.4
82.2
82.0
81.8
81.6
81.4
SMWIR T_cfpa (K)
0
200
400
600
800
Collect*scan


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)

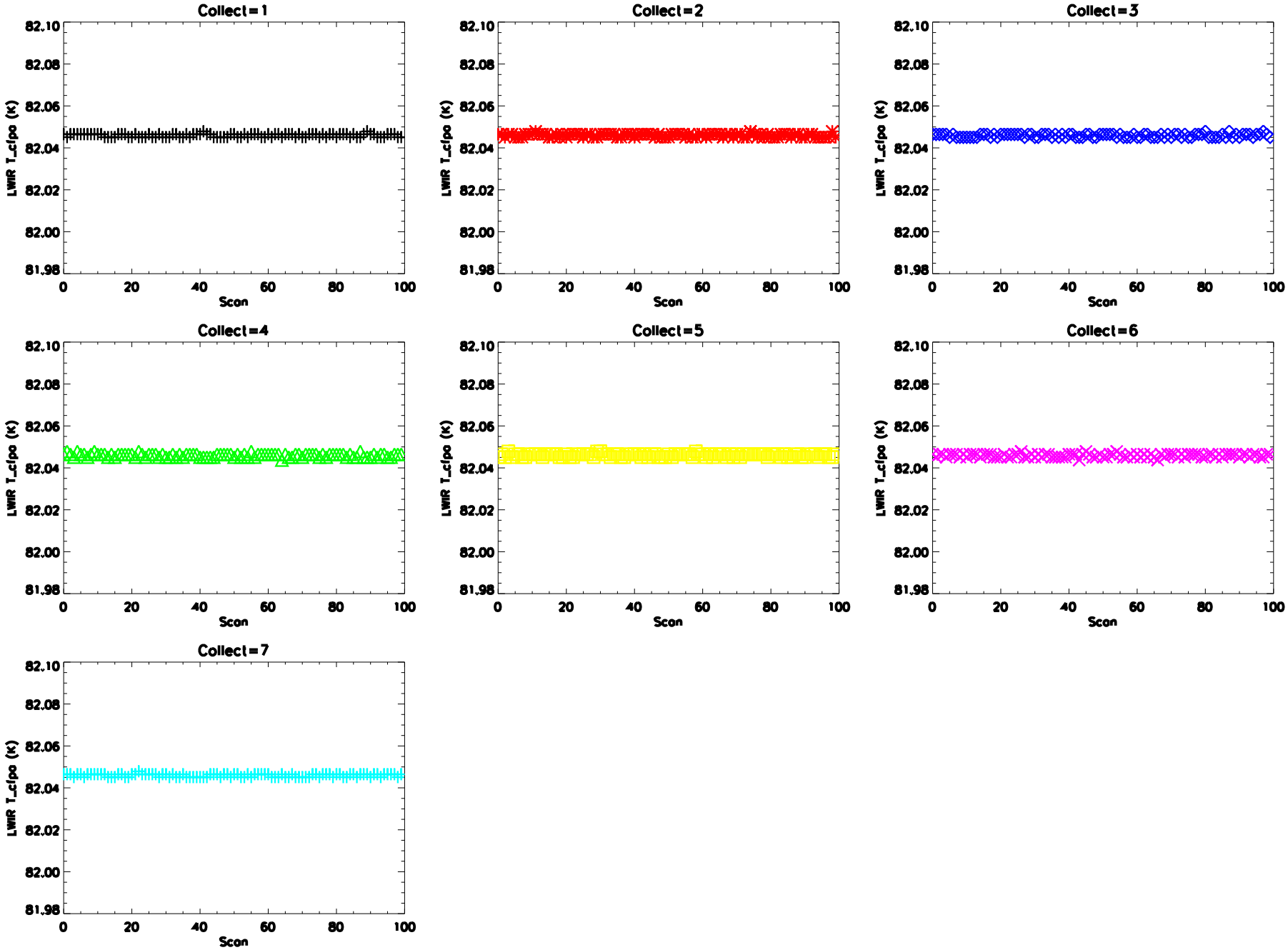
SMWIR T_cfpa vs Scan

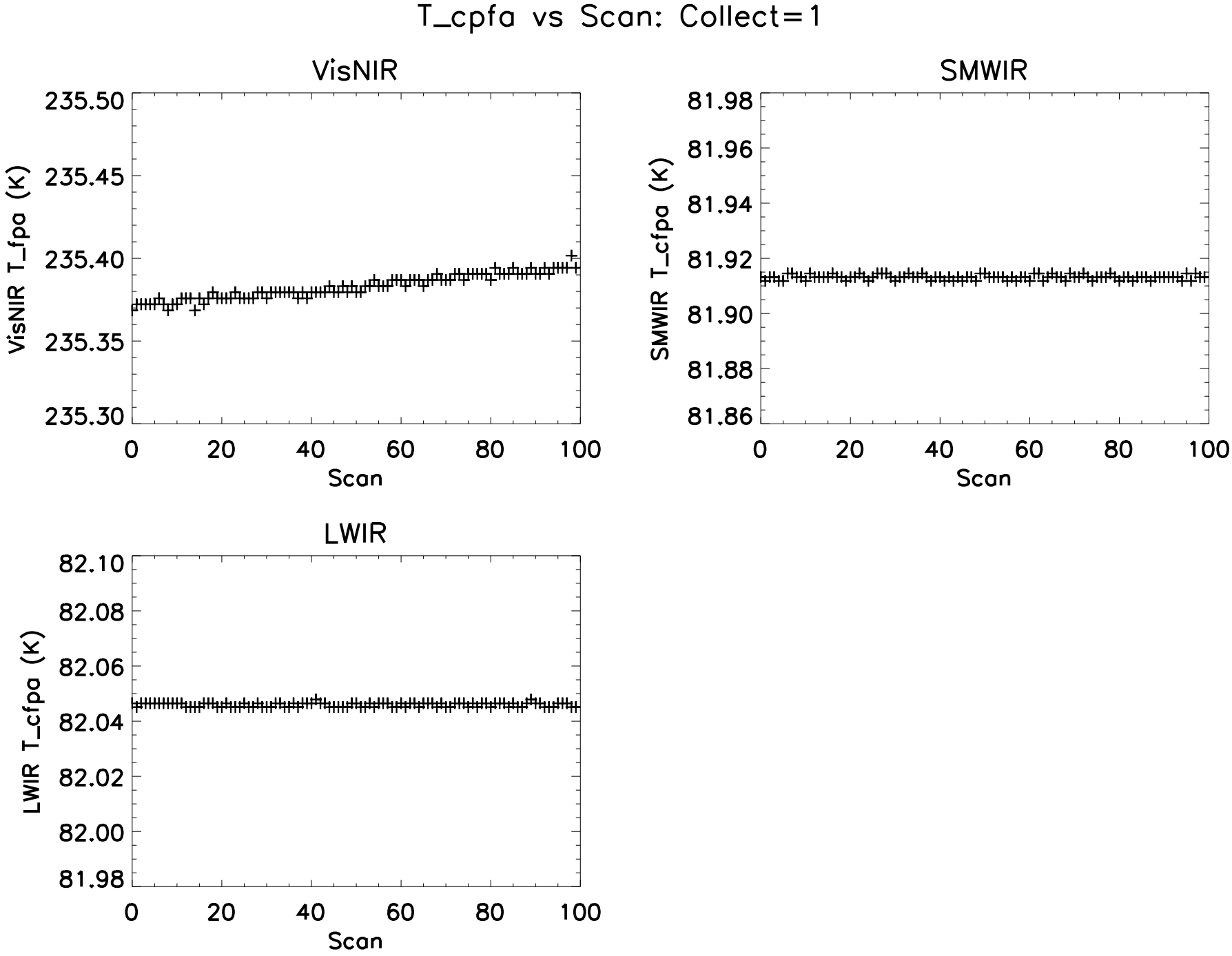


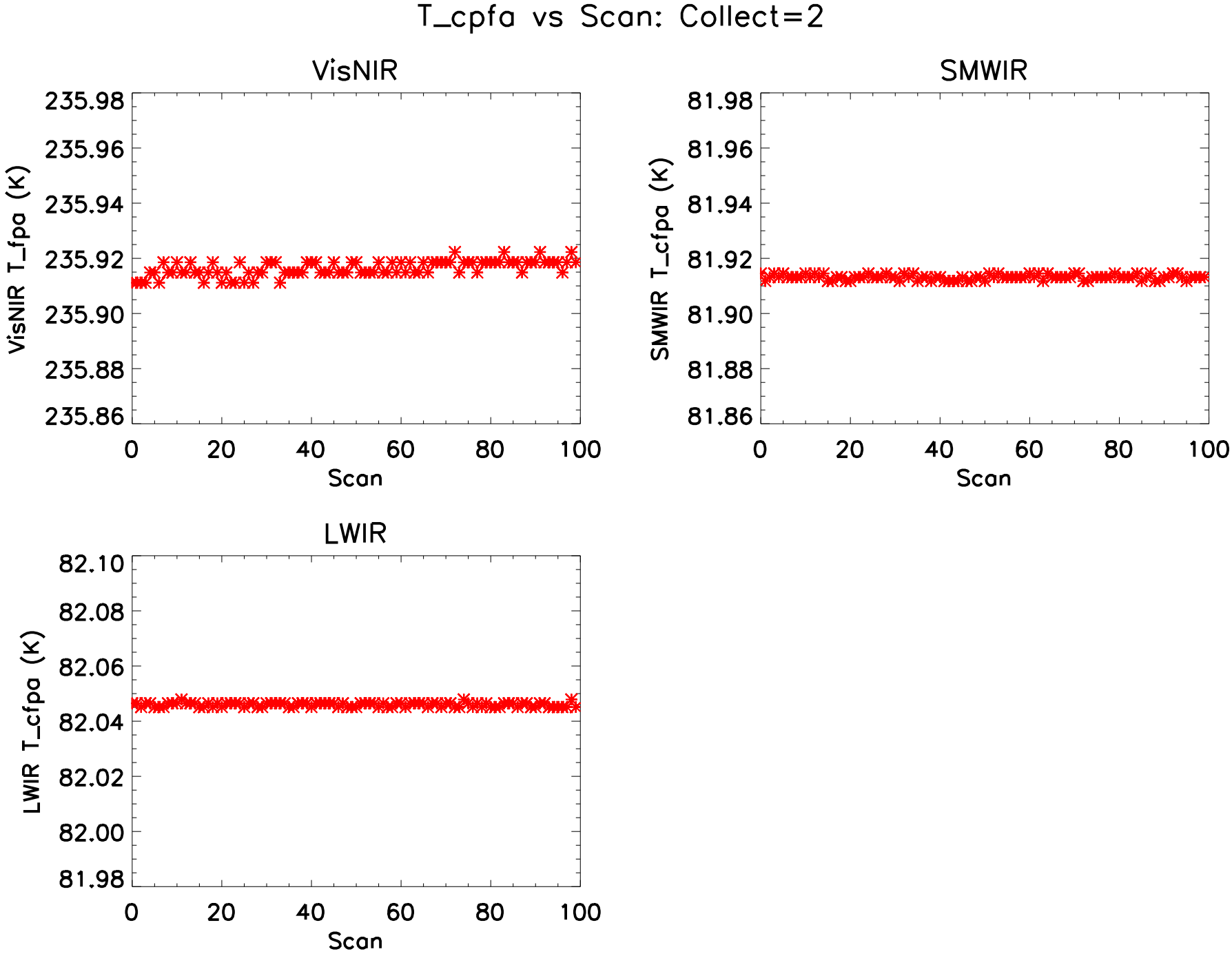

LWIR T_cfpa vs Scan and Collect
LWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
0
200
400
600
800
Collect*scan

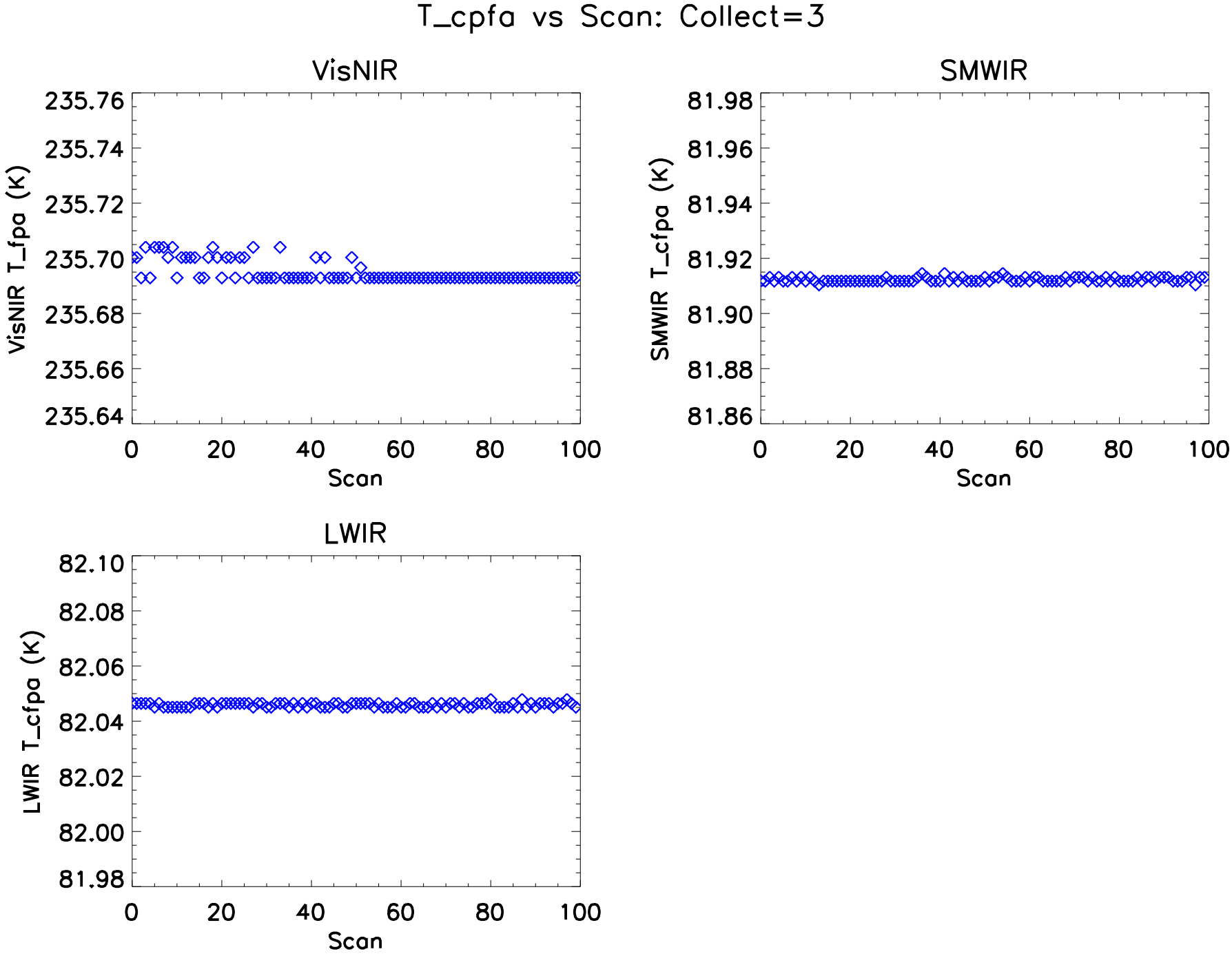

LWIR T_cfpa vs Time
LWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
−200
0
200
400
600
800
Time (min)

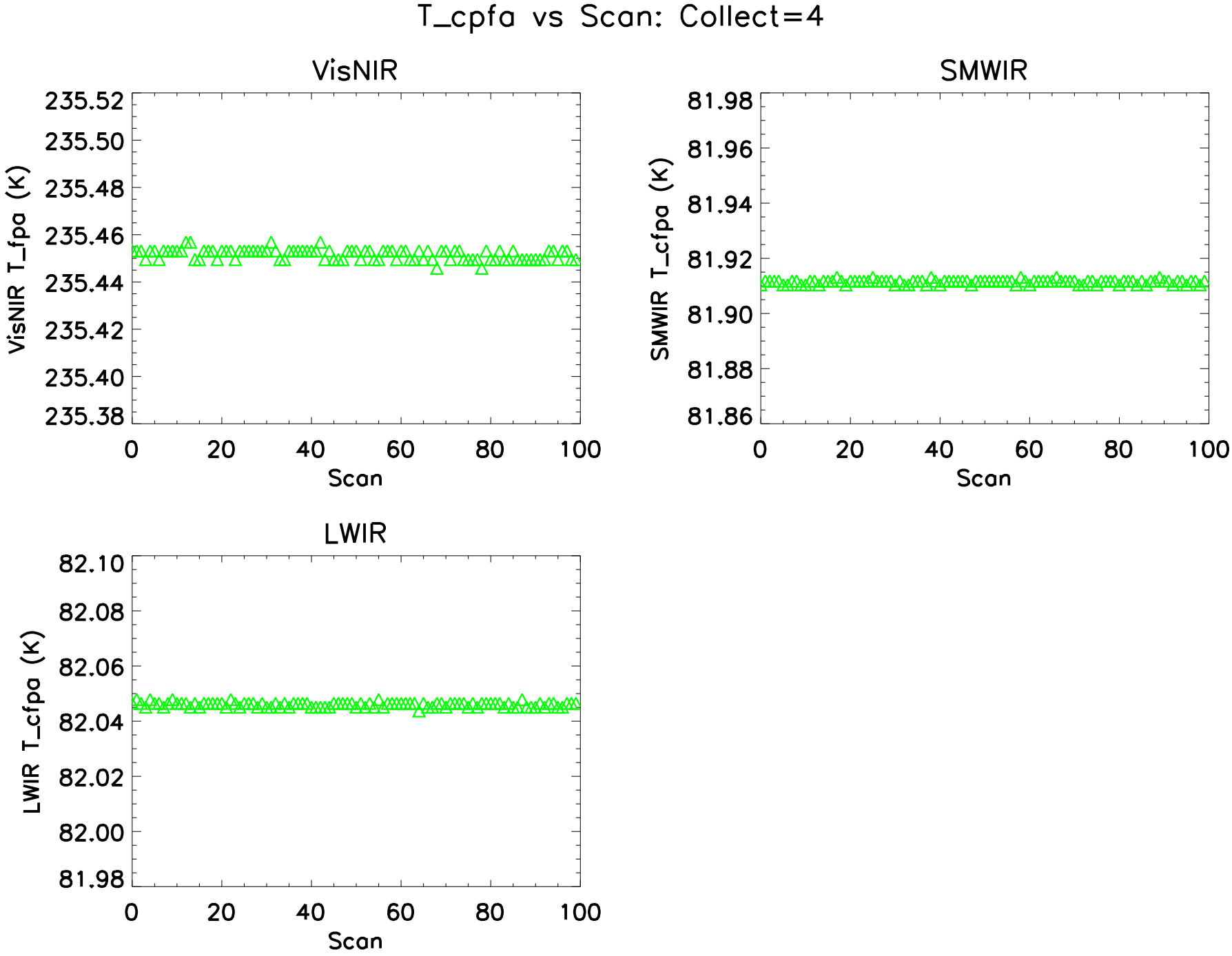
LWIR T_cfpa vs Scan

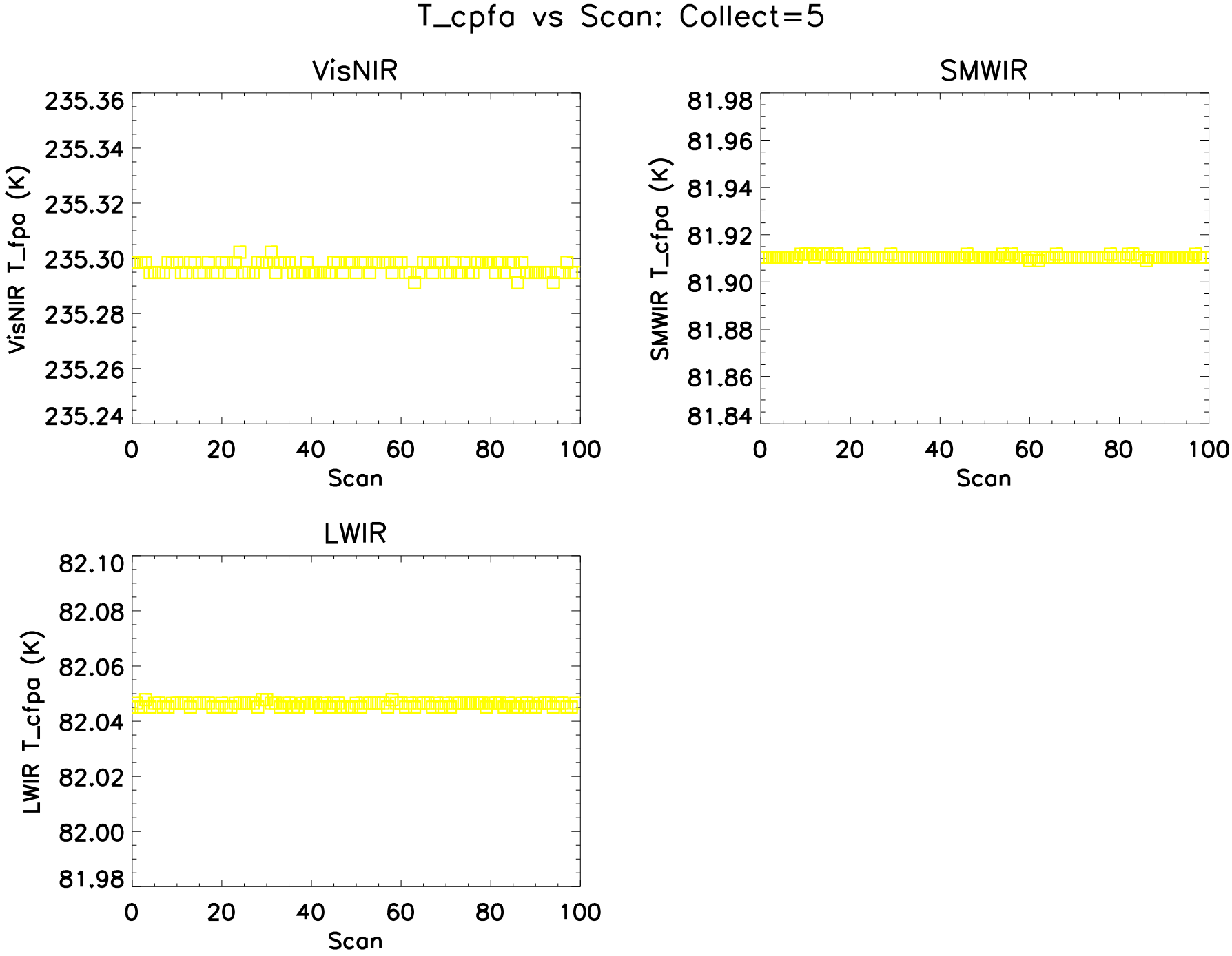


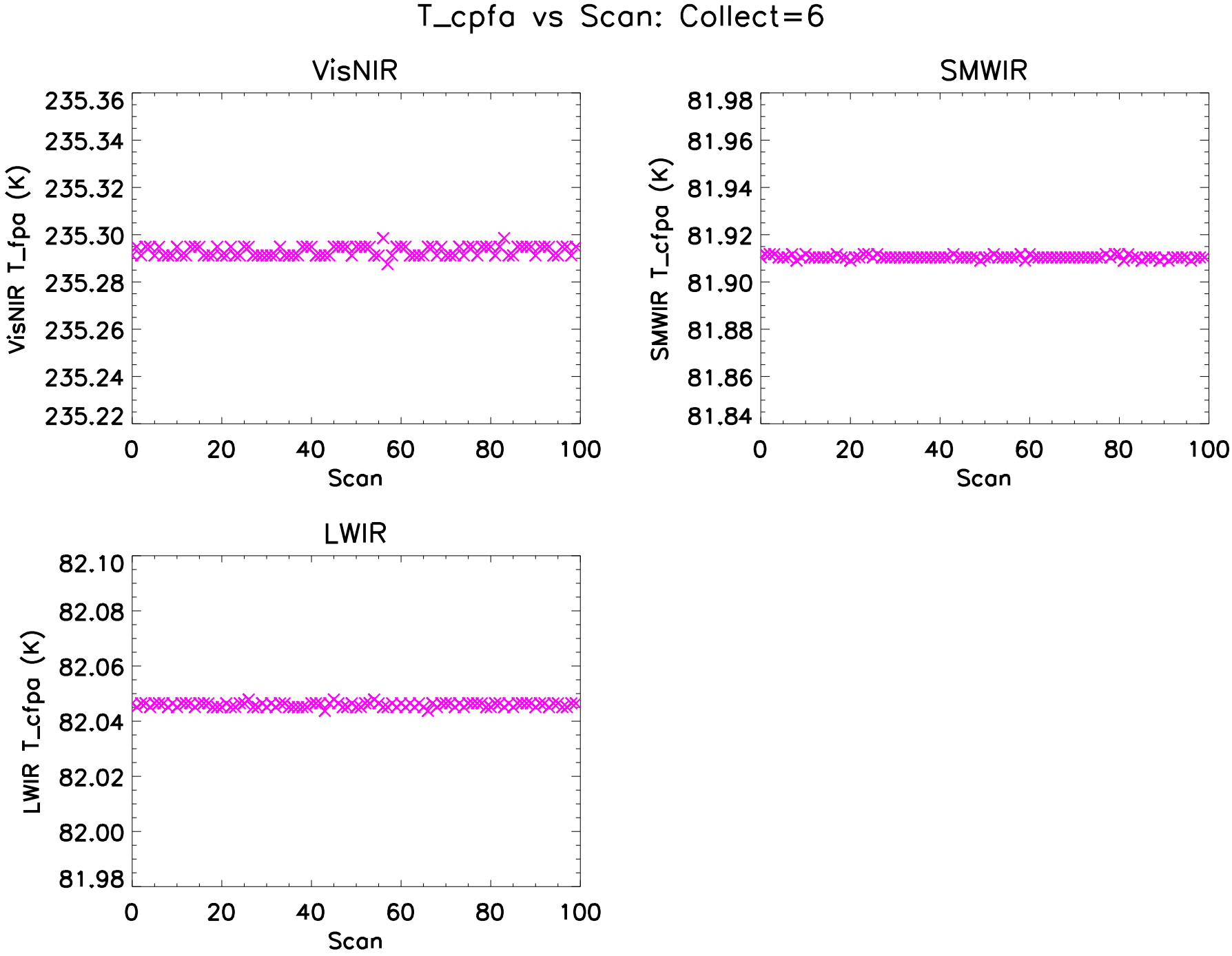

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
235.50
235.45
235.40
235.35
235.30
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

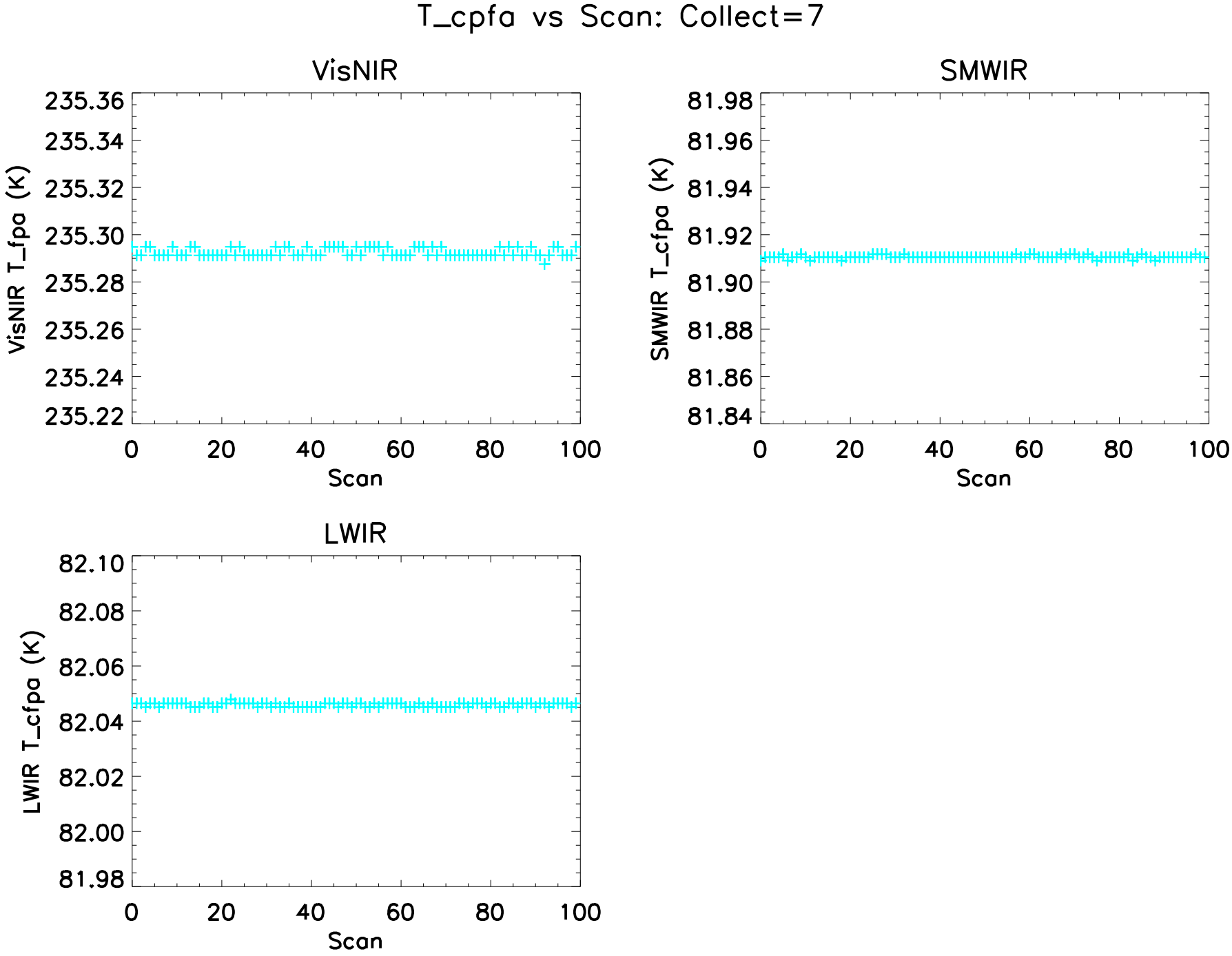

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
235.98
235.96
235.94
235.92
235.90
235.88
235.86
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

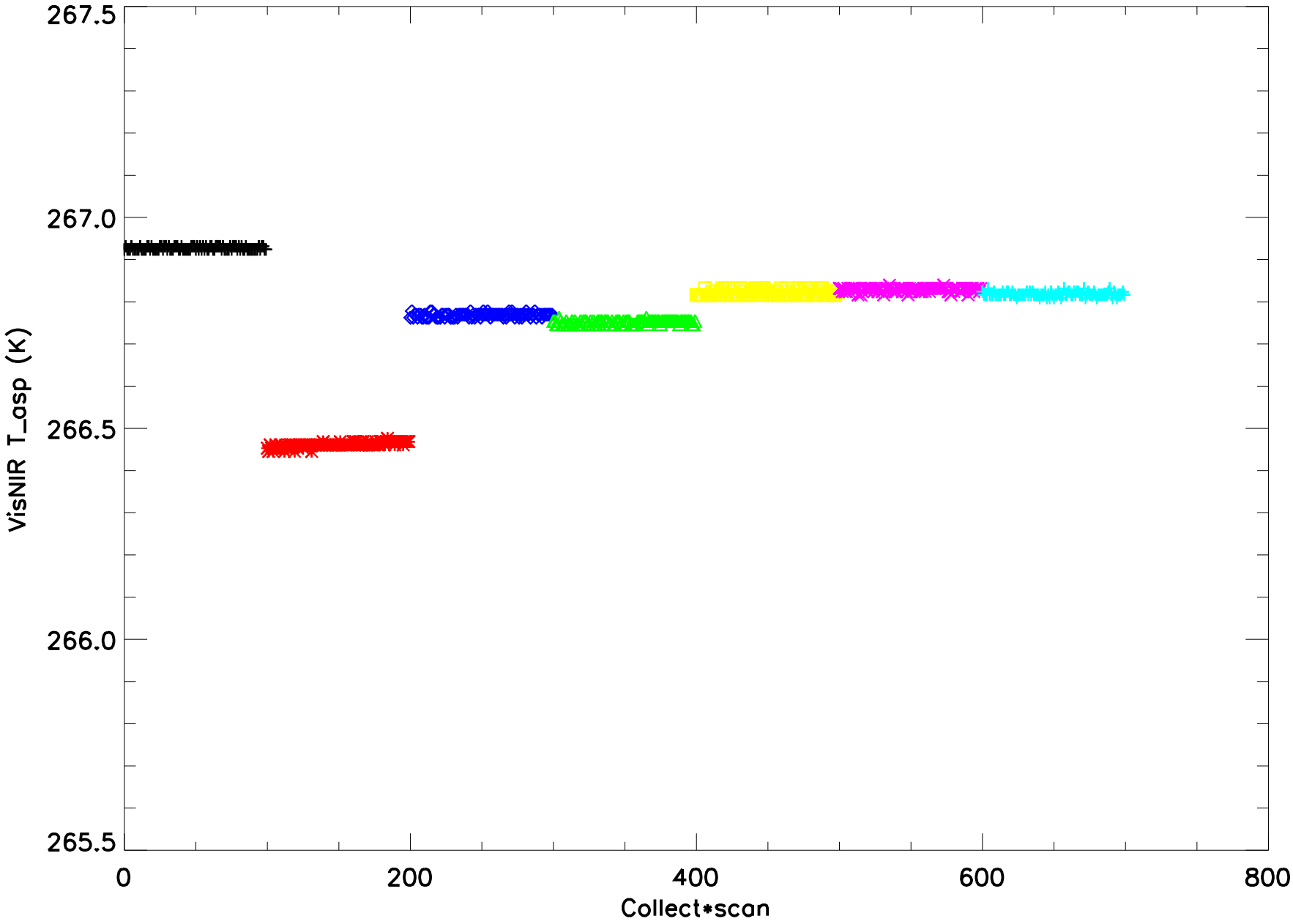

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
235.76
235.74
235.72
235.70
235.68
235.66
235.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

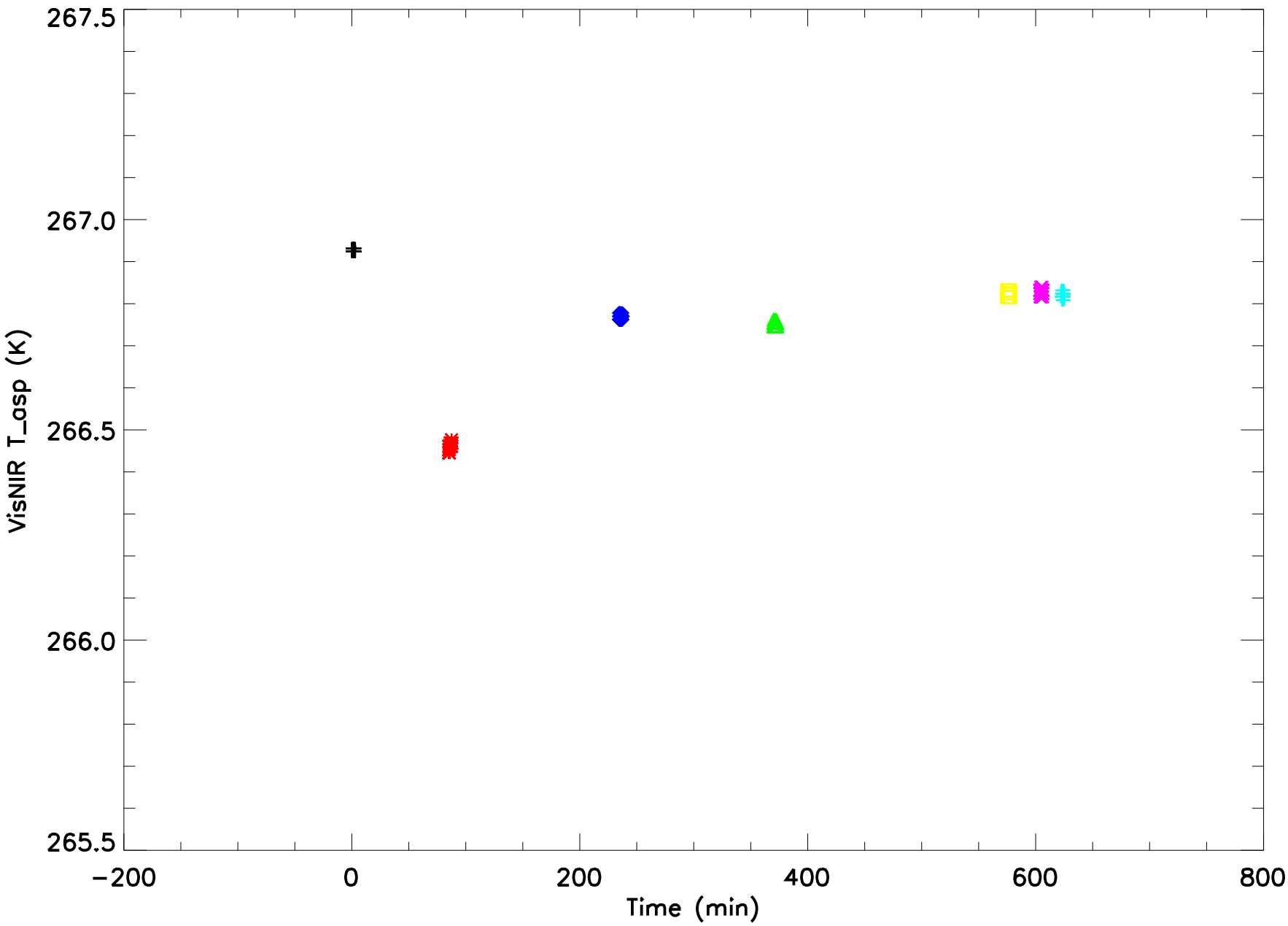

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
235.52
235.50
235.48
235.46
235.44
235.42
235.40
235.38
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan


T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
235.36
235.34
235.32
235.30
235.28
235.26
235.24
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
81.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

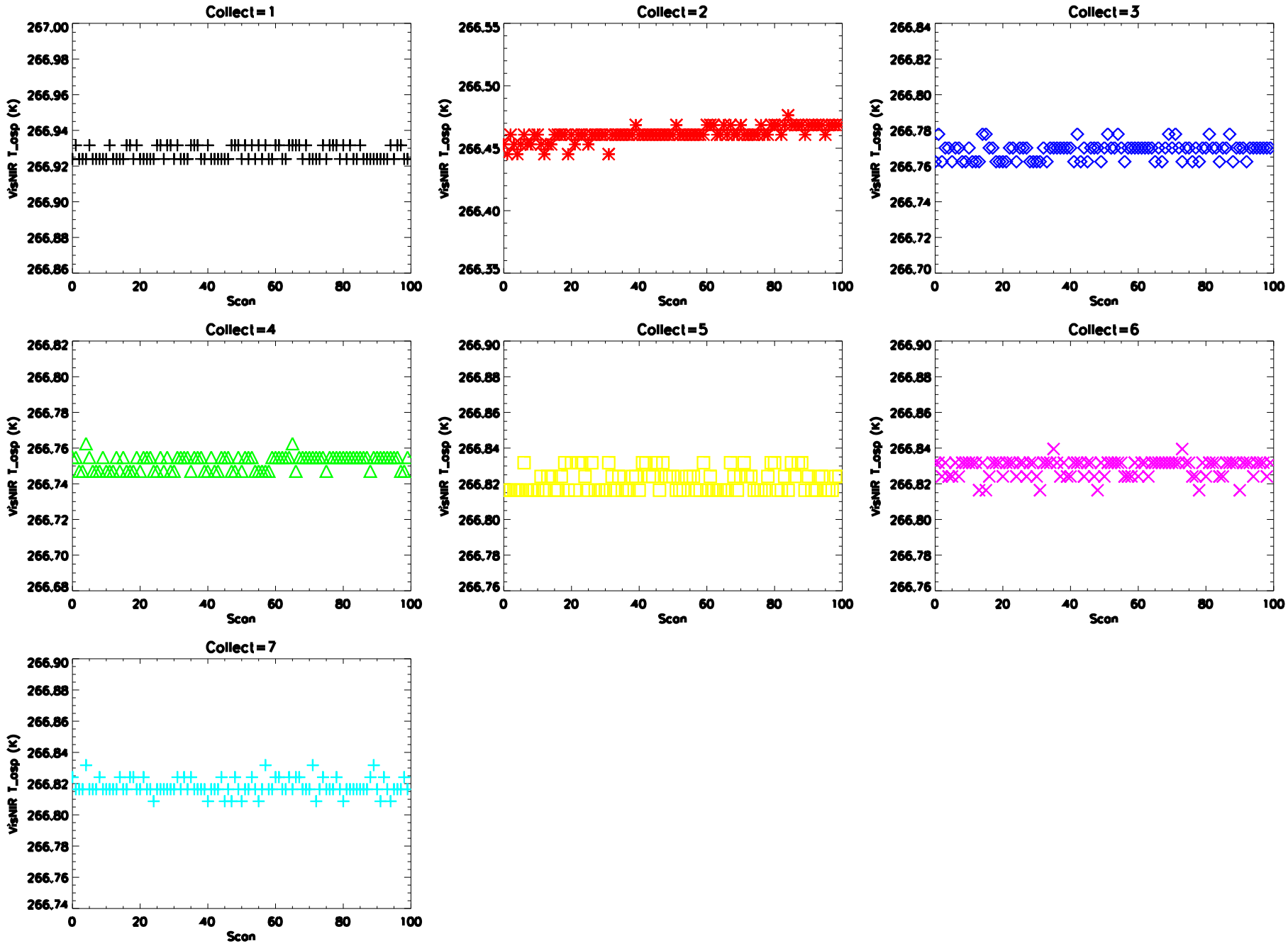

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
235.36
235.34
235.32
235.30
235.28
235.26
235.24
235.22
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
81.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

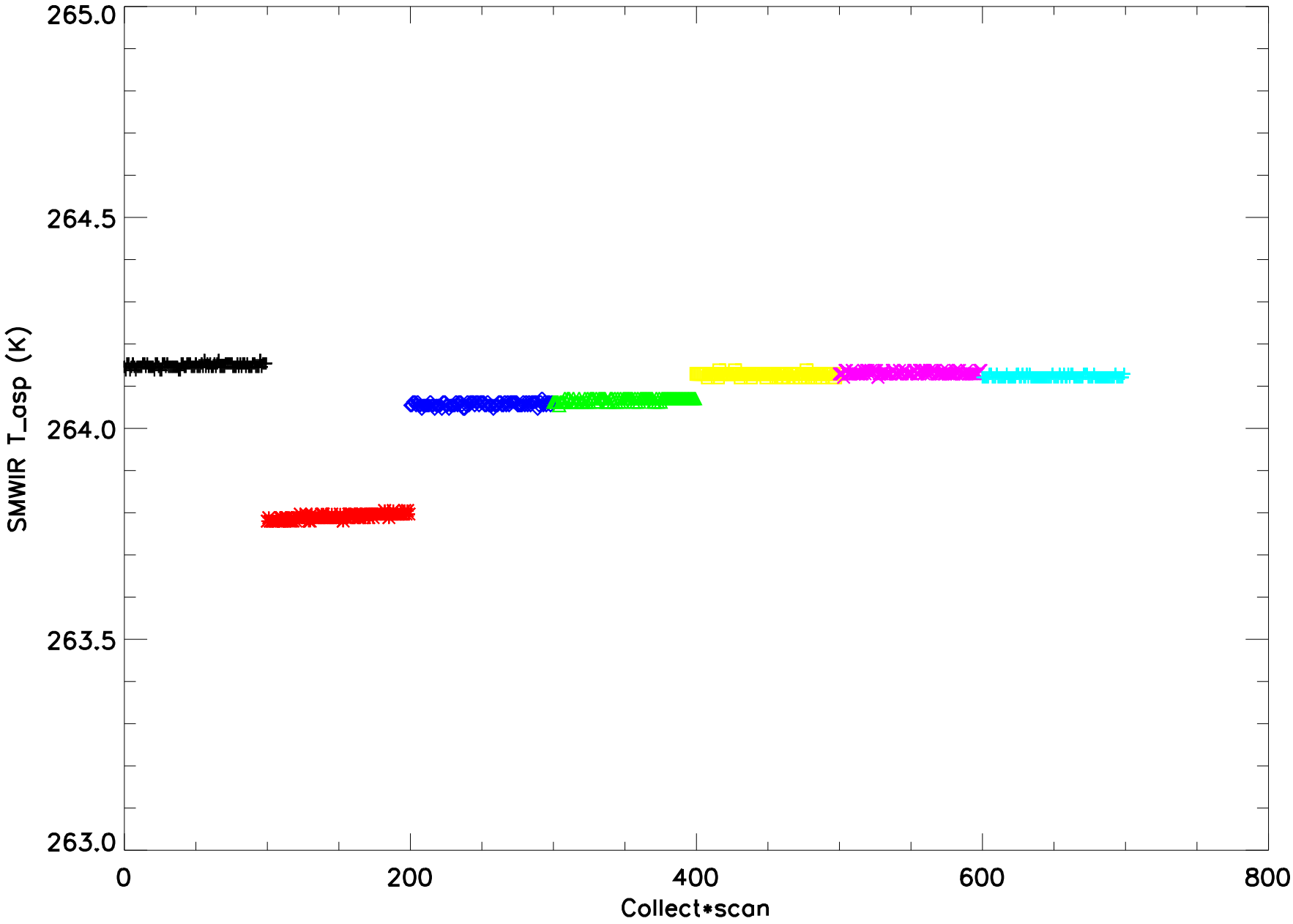

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
235.36
235.34
235.32
235.30
235.28
235.26
235.24
235.22
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
81.84
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

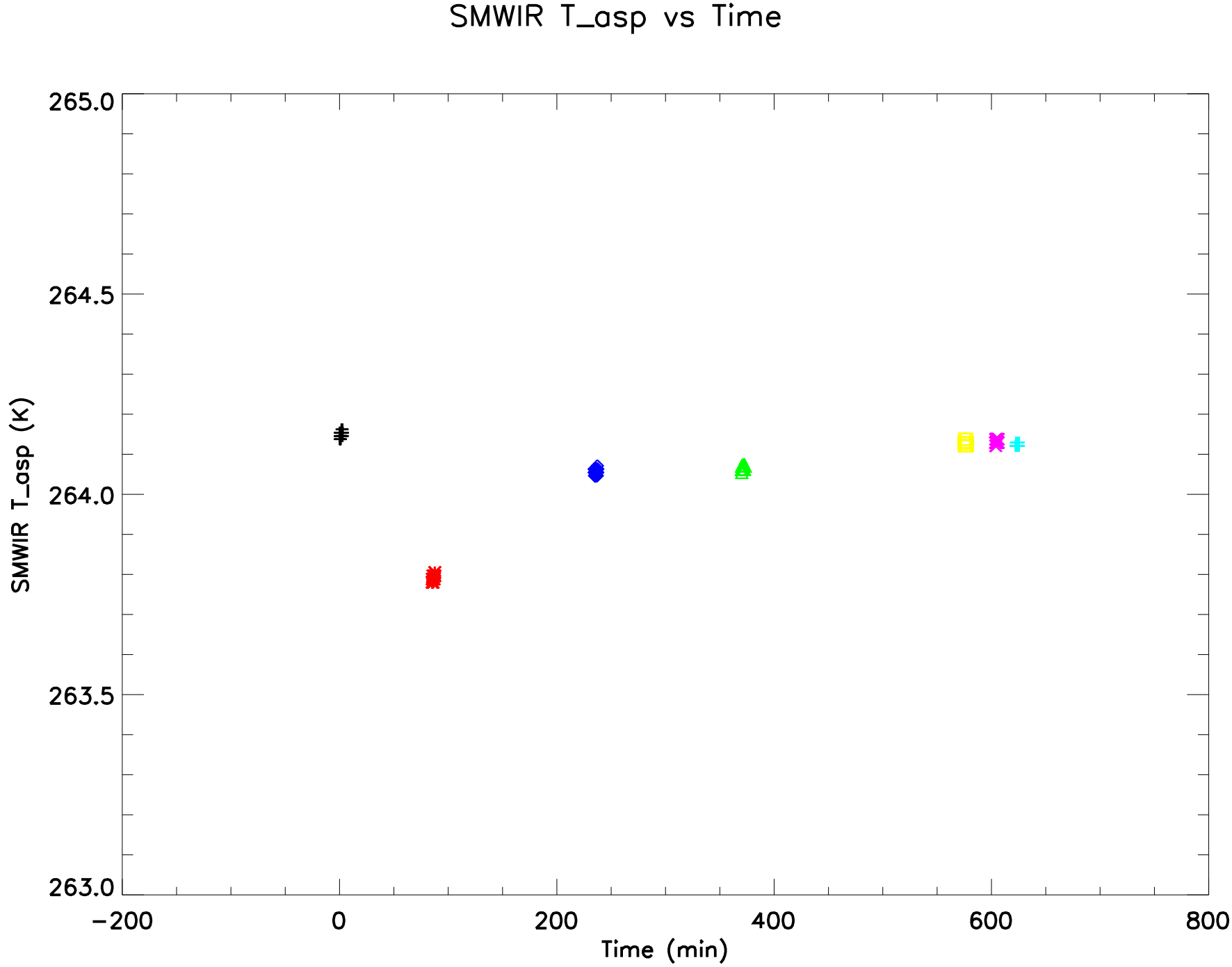

VisNIR T_asp vs Scan and Collect
267.5
267.0
266.5
266.0
265.5
VisNIR T_asp (K)
0
200
400
600
800
Collect*scan


VisNIR T_asp vs Time
VisNIR T_asp (K)
267.5
267.0
266.5
266.0
265.5
−200
0
200
400
600
800
Time (min)

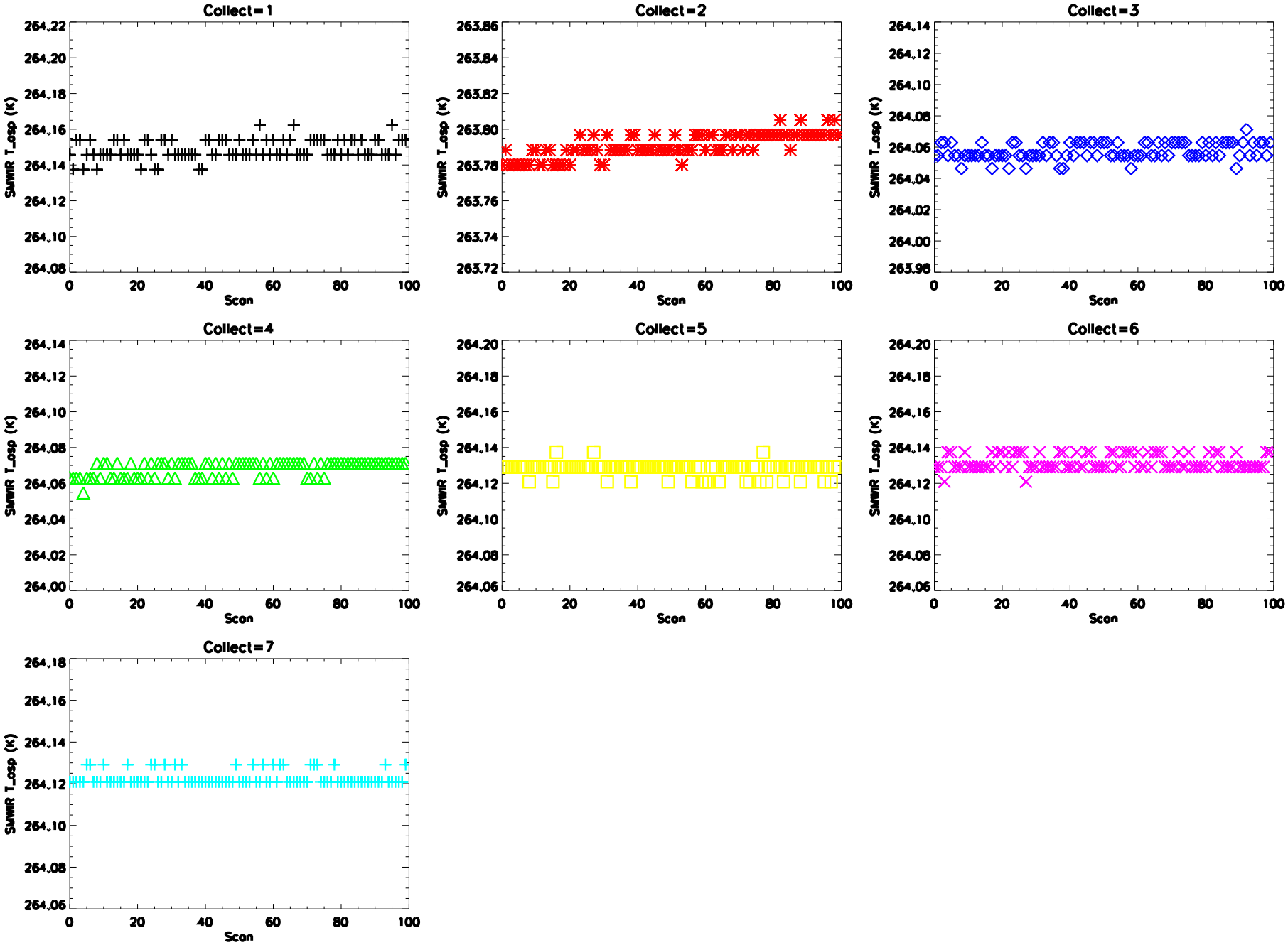
VisNIR T_asp vs Scan

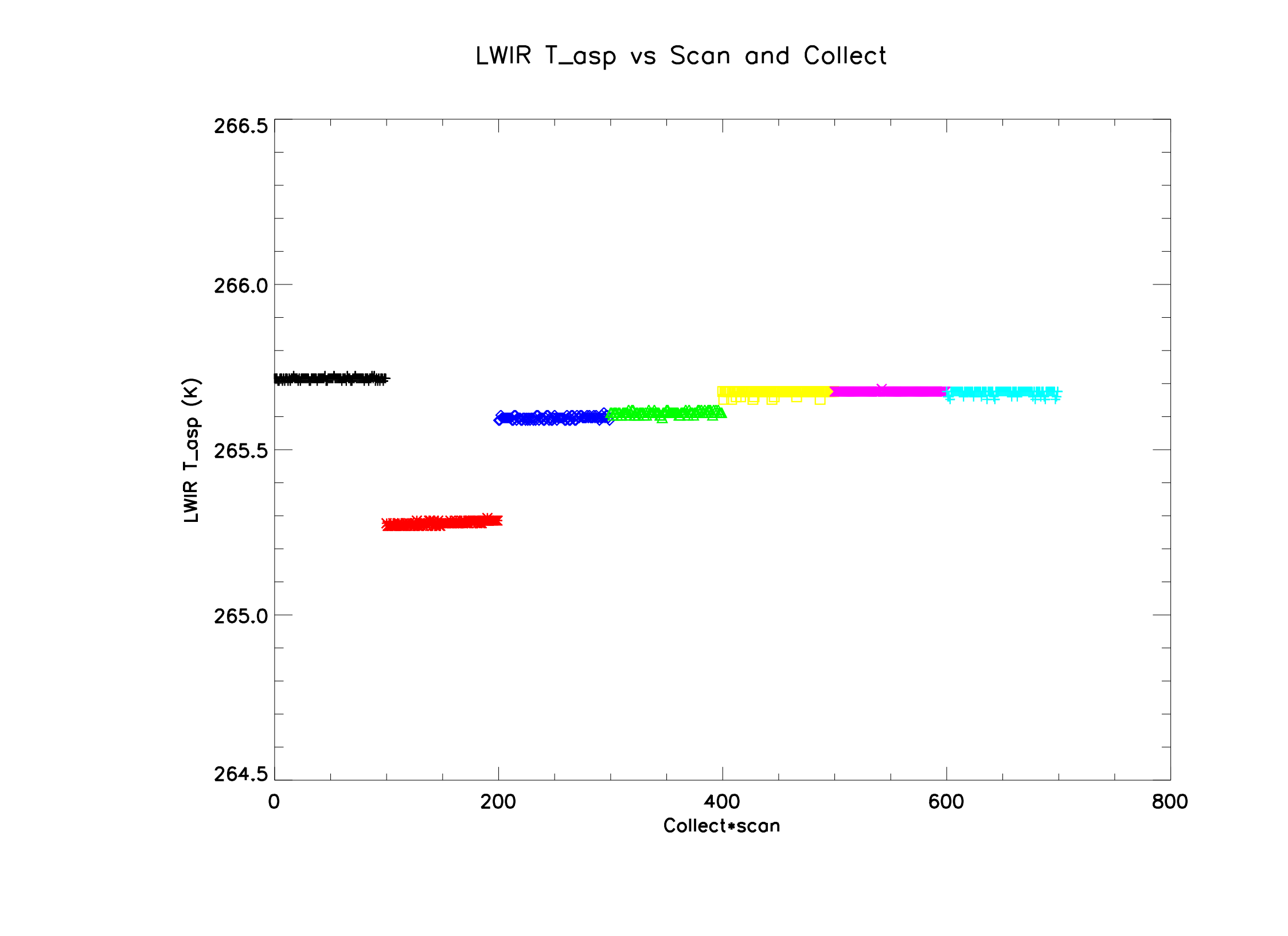


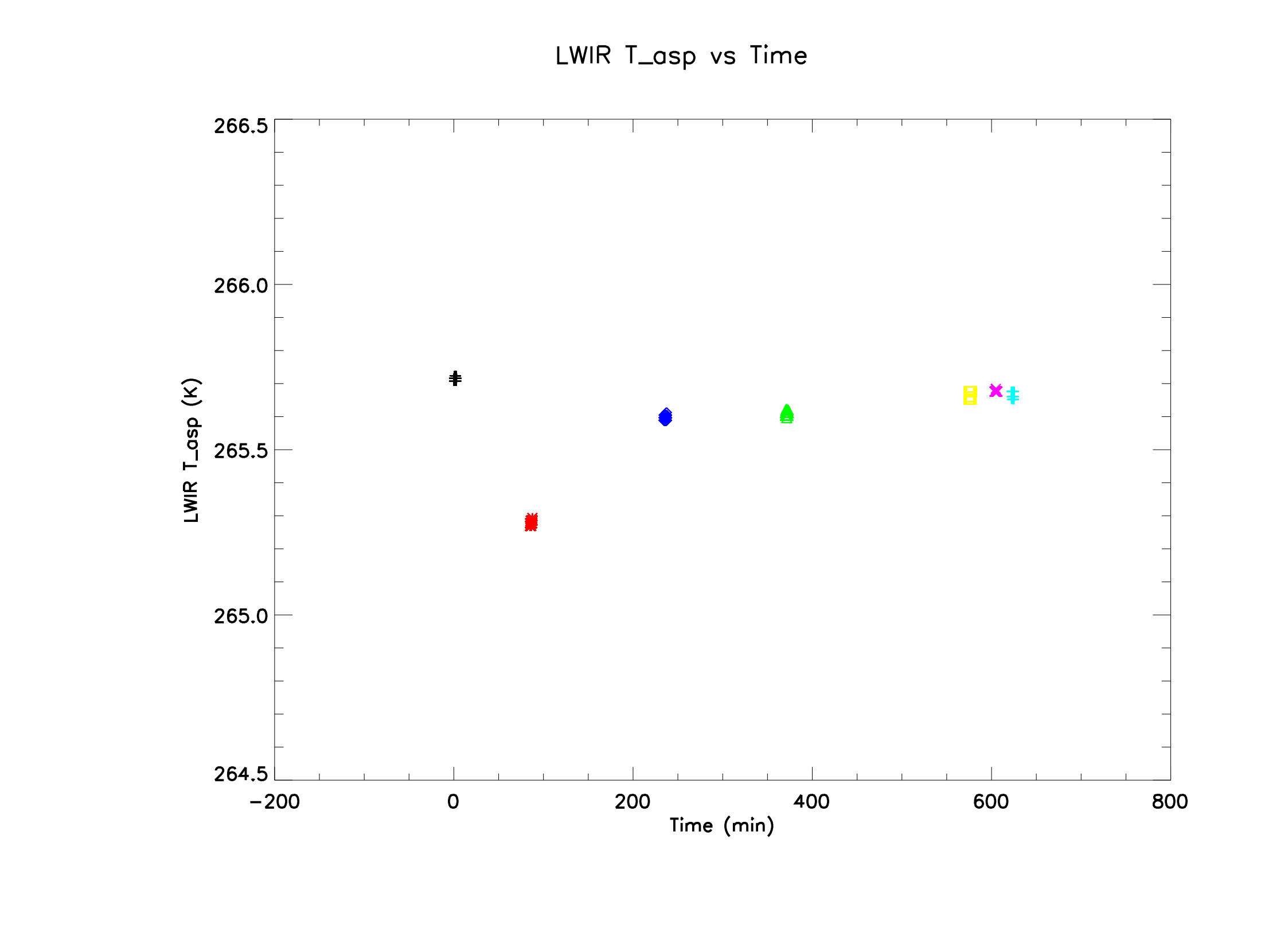

SMWIR T_asp vs Scan and Collect
265.0
264.5
264.0
263.5
263.0
SMWIR T_asp (K)
0
200
400
600
800
Collect*scan


SMWIR T_asp vs Time
265.0
264.5
264.0
263.5
263.0
SMWIR T_asp (K)
−200
0
200
400
600
800
Time (min)

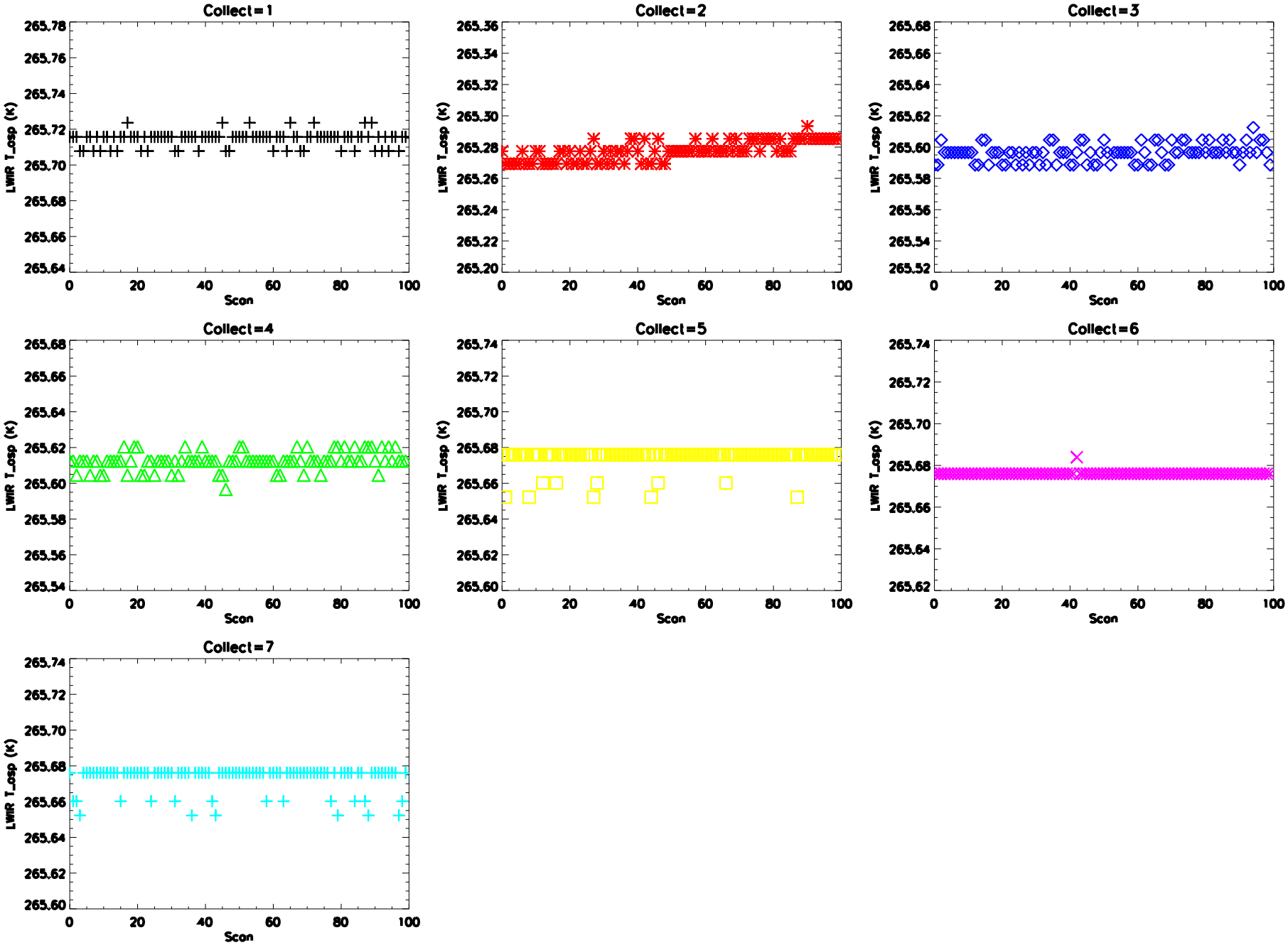
SMWIR T_asp vs Scan

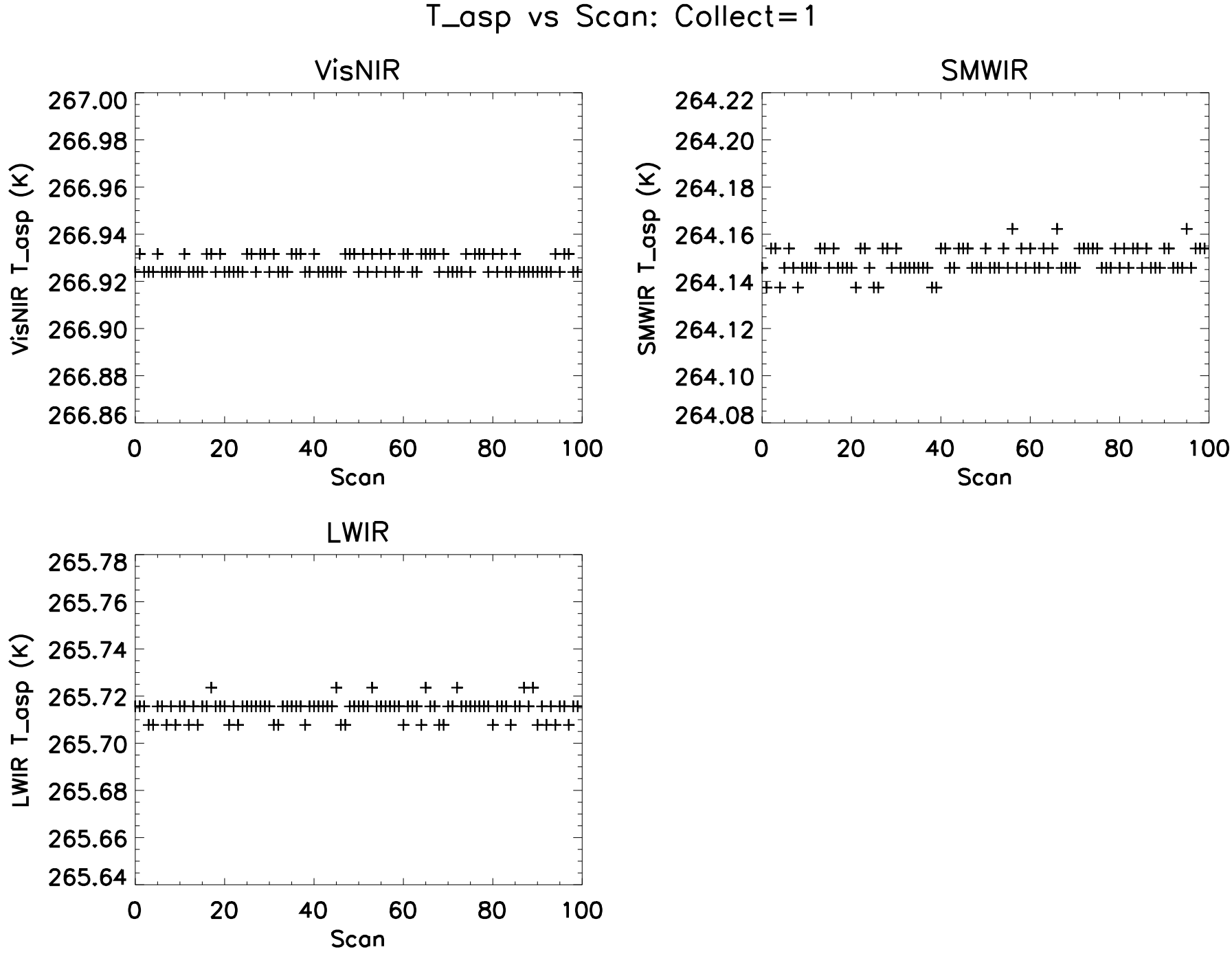


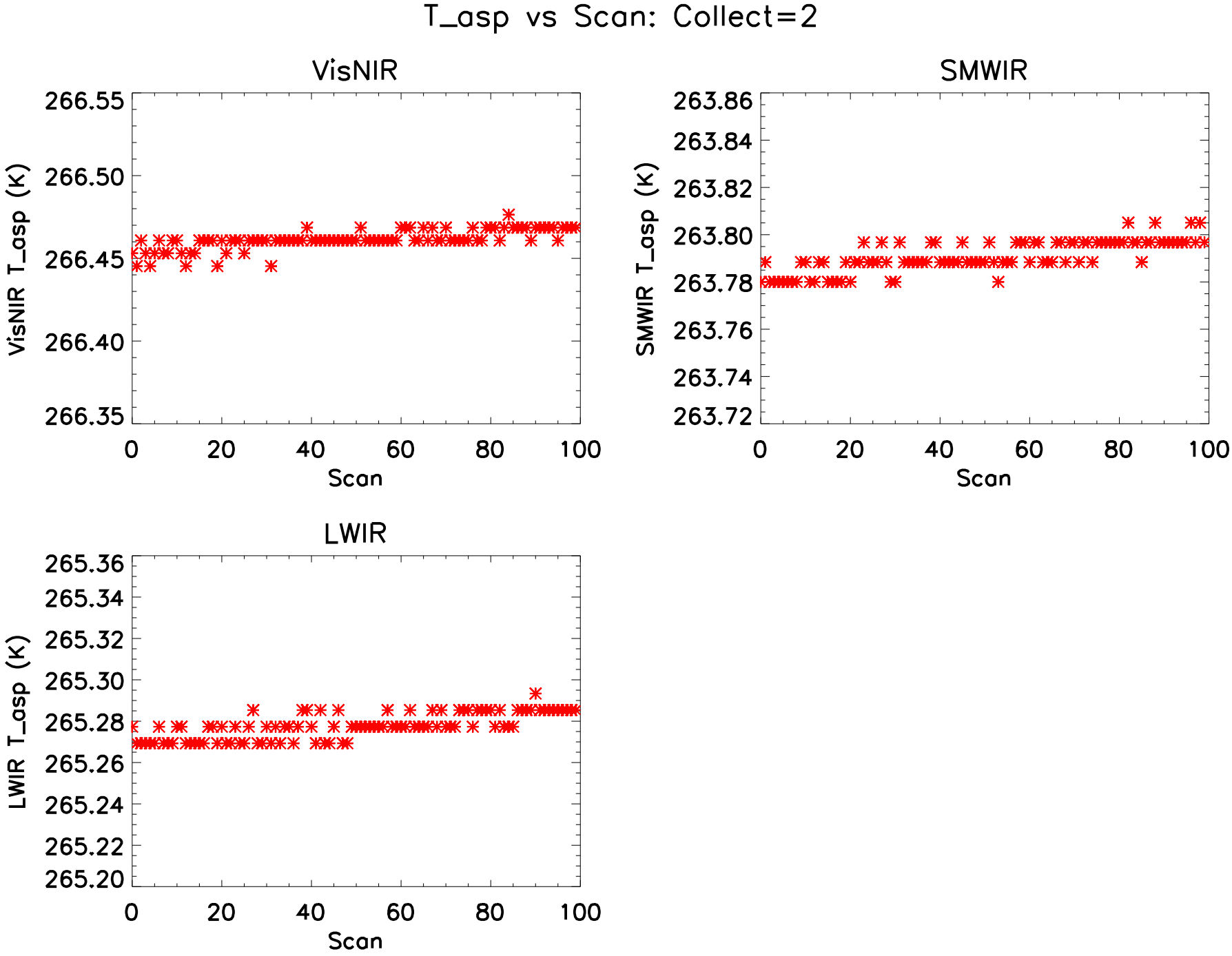

LWIR T_asp vs Scan and Collect
LWIR T_asp (K)
266.5
266.0
265.5
265.0
264.5
0
200
400
600
800
Collect*scan

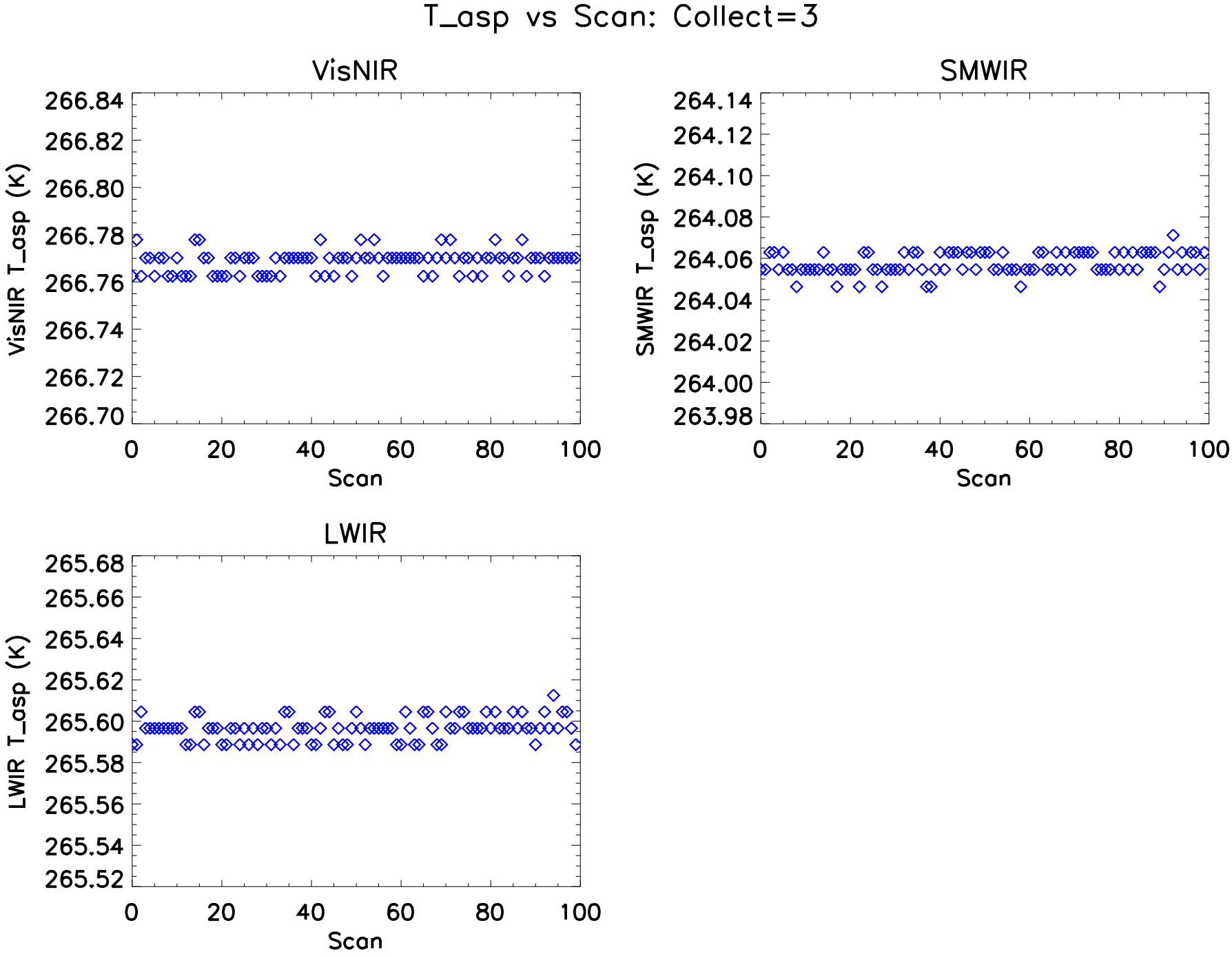

LWIR T_asp vs Time
LWIR T_asp (K)
266.5
266.0
265.5
265.0
264.5
−200
0
200
400
600
800
Time (min)

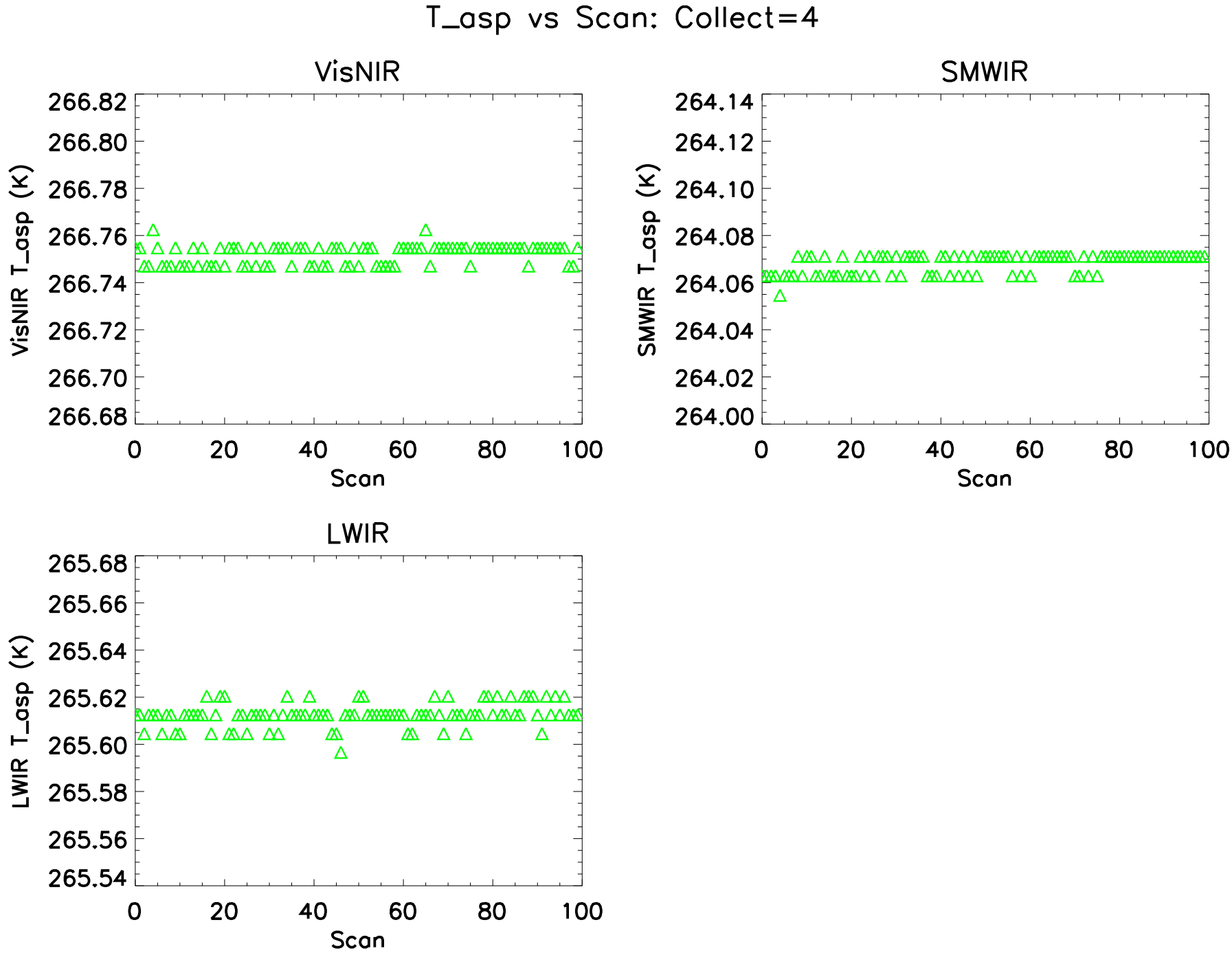
LWIR T_asp vs Scan

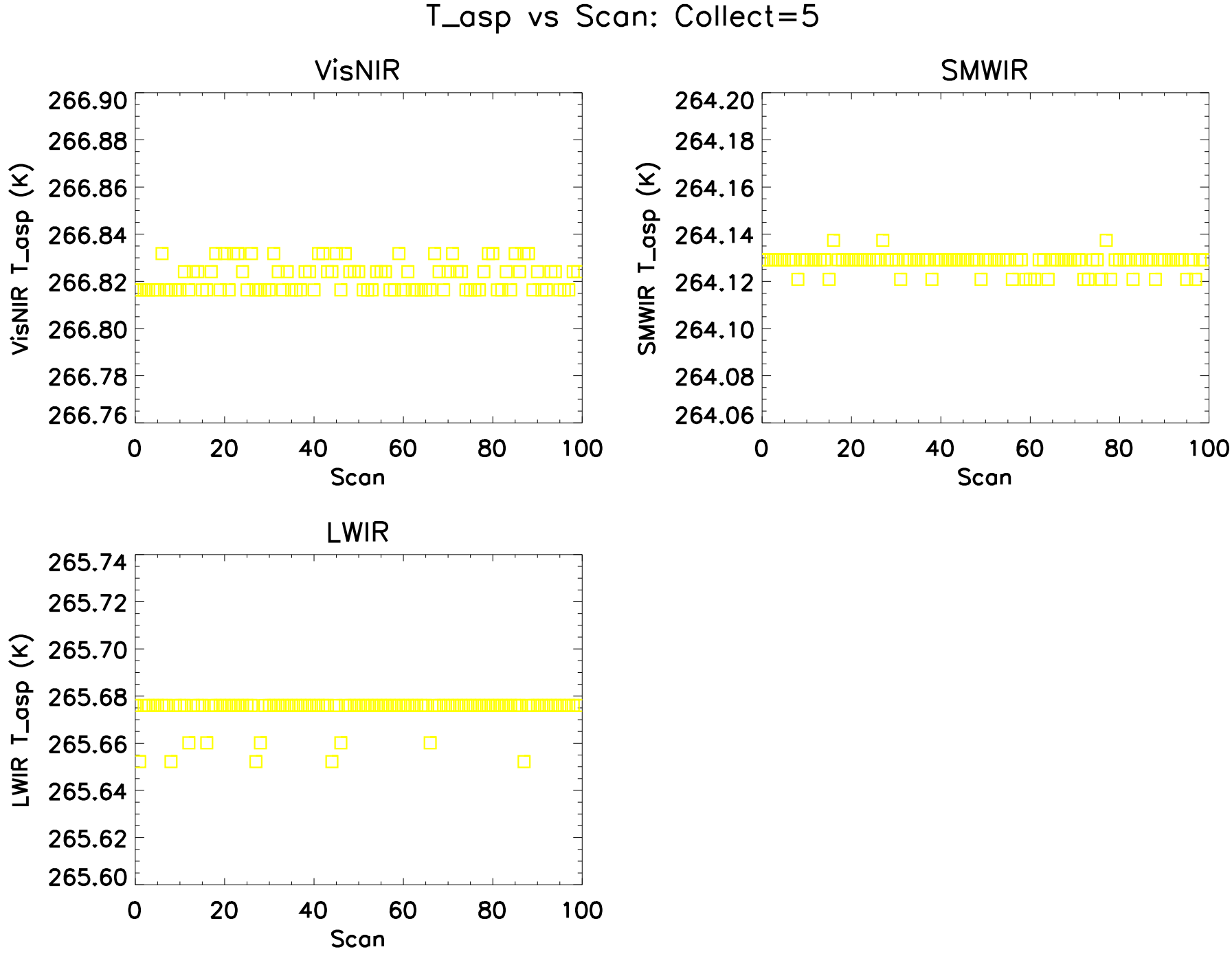


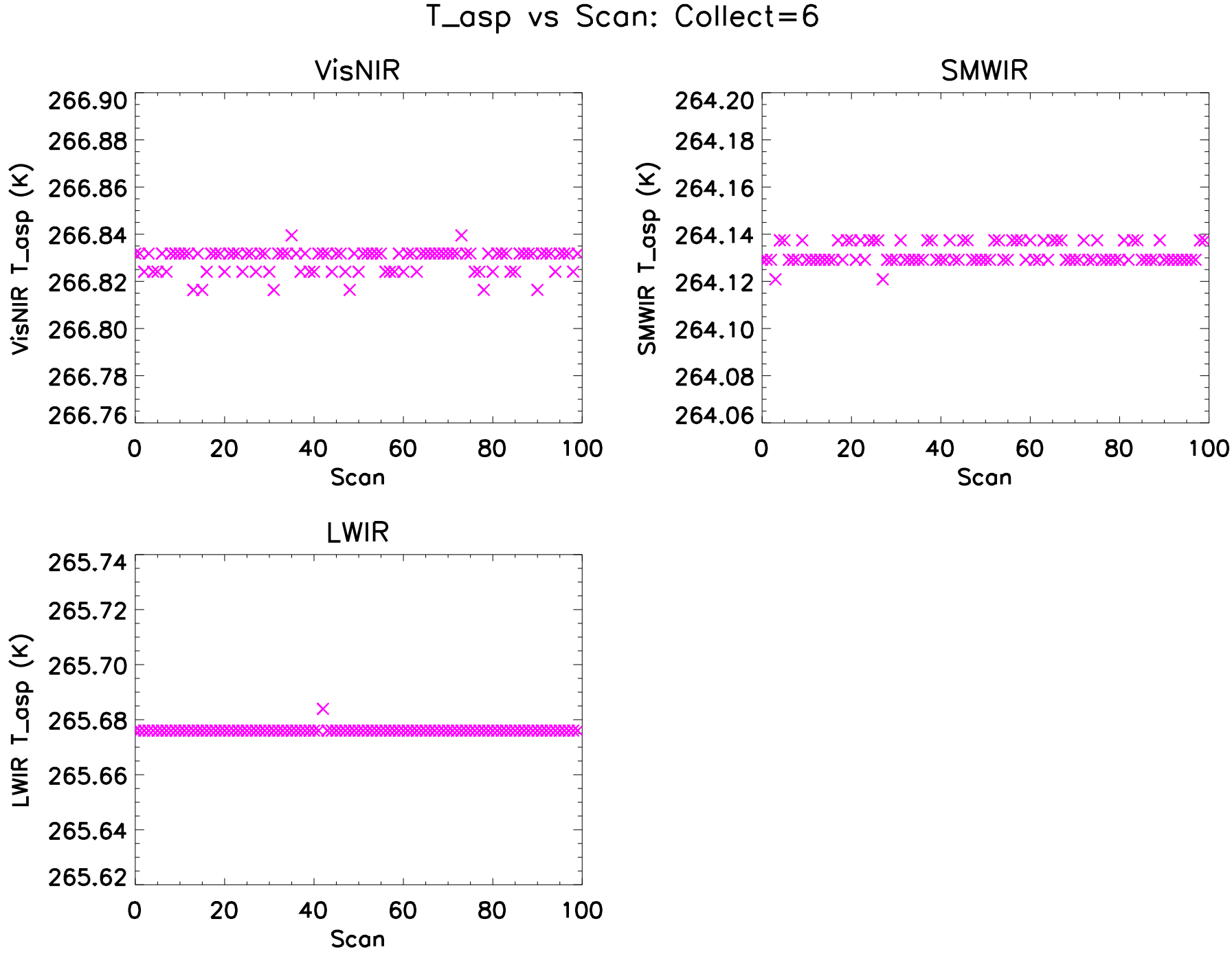

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
267.00
266.98
266.96
266.94
266.92
266.90
266.88
266.86
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
264.22
264.20
264.18
264.16
264.14
264.12
264.10
264.08
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
265.78
265.76
265.74
265.72
265.70
265.68
265.66
265.64
0
20
40
60
80
100
Scan

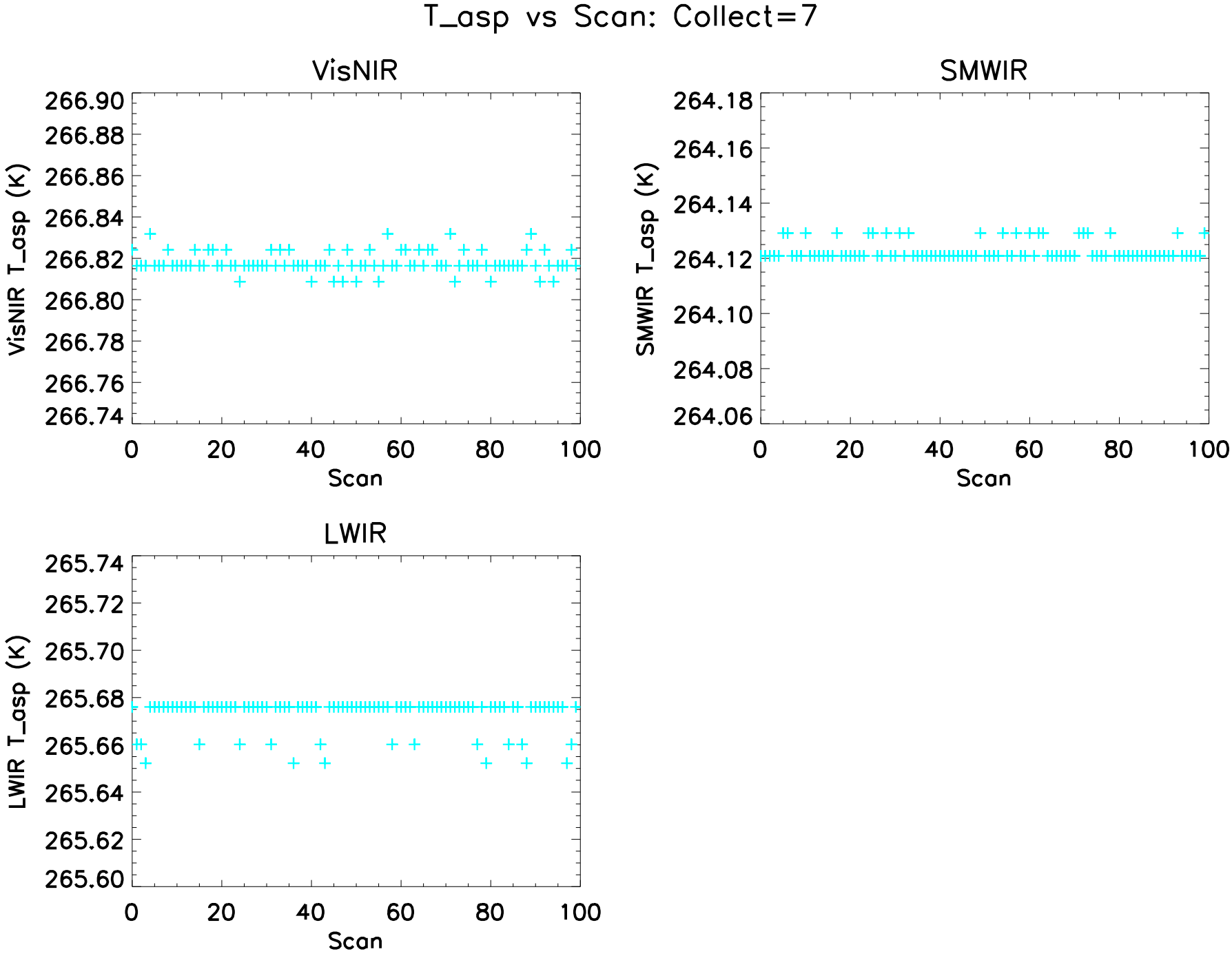

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
266.55
266.50
266.45
266.40
266.35
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
263.86
263.84
263.82
263.80
263.78
263.76
263.74
263.72
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
265.36
265.34
265.32
265.30
265.28
265.26
265.24
265.22
265.20
0
20
40
60
80
100
Scan

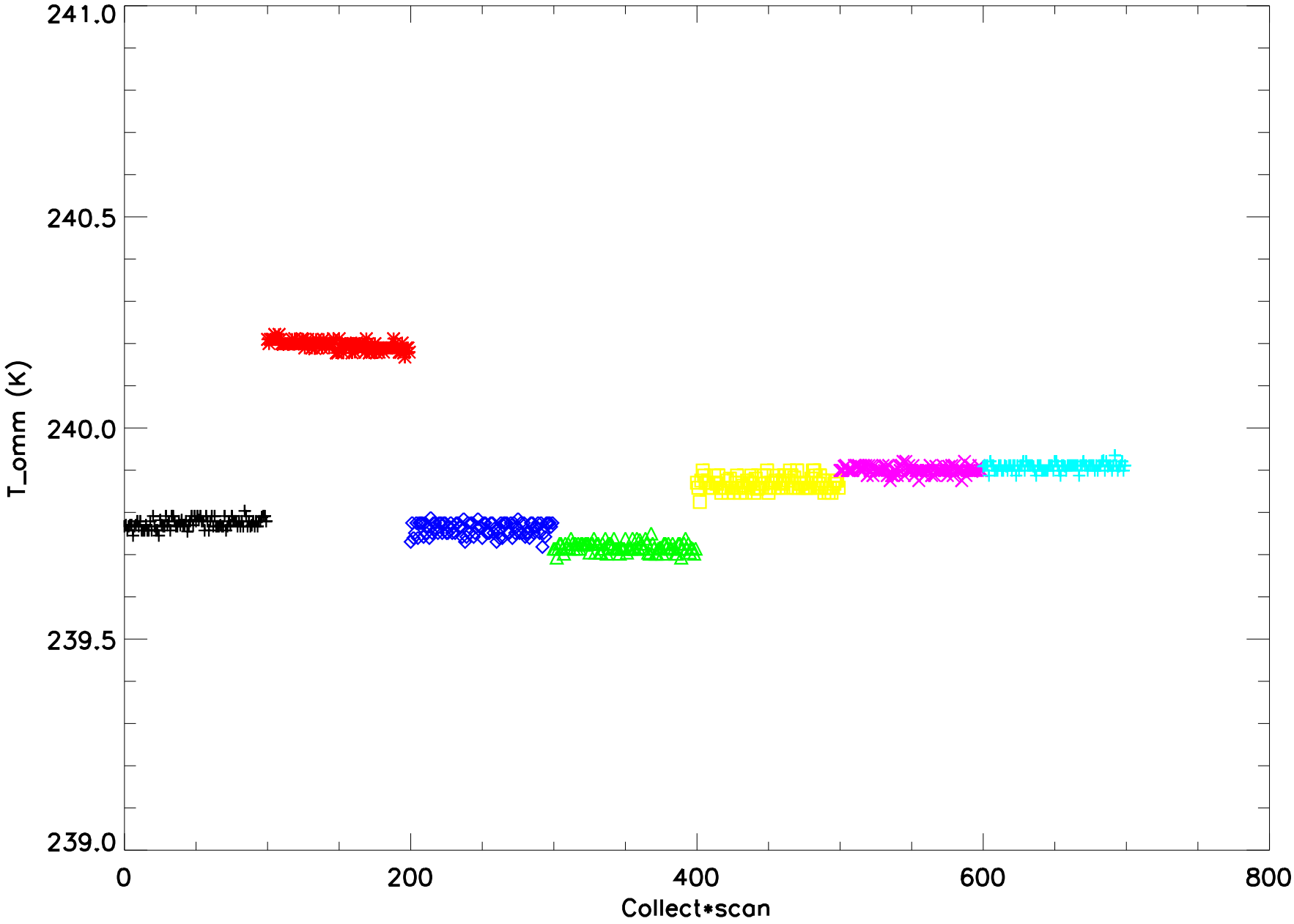

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
266.84
266.82
266.80
266.78
266.76
266.74
266.72
266.70
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
264.14
264.12
264.10
264.08
264.06
264.04
264.02
264.00
263.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
265.68
265.66
265.64
265.62
265.60
265.58
265.56
265.54
265.52
0
20
40
60
80
100
Scan

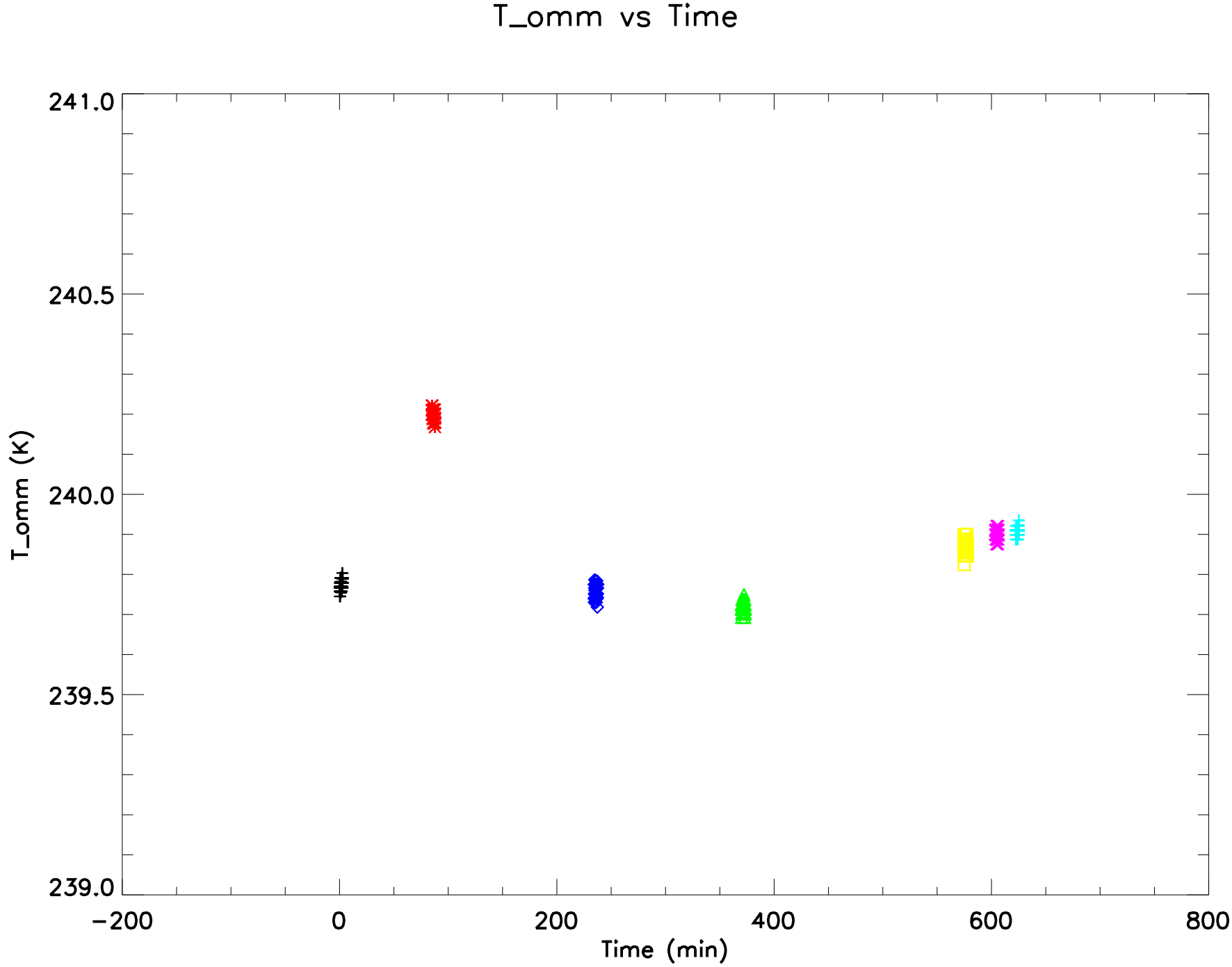

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
266.82
266.80
266.78
266.76
266.74
266.72
266.70
266.68
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
264.14
264.12
264.10
264.08
264.06
264.04
264.02
264.00
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
265.68
265.66
265.64
265.62
265.60
265.58
265.56
265.54
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
266.90
266.88
266.86
266.84
266.82
266.80
266.78
266.76
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
264.20
264.18
264.16
264.14
264.12
264.10
264.08
264.06
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
265.74
265.72
265.70
265.68
265.66
265.64
265.62
265.60
0
20
40
60
80
100
Scan

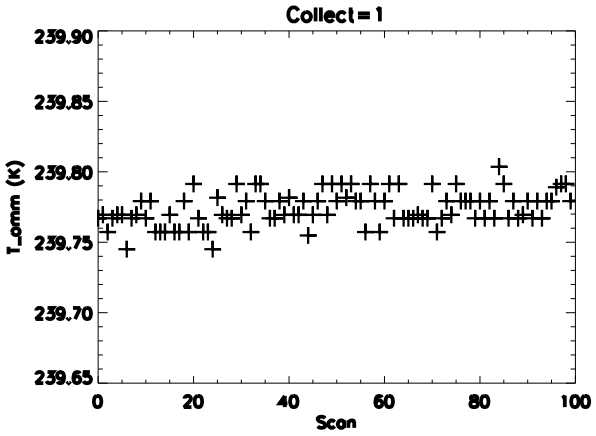

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
266.90
266.88
266.86
266.84
266.82
266.80
266.78
266.76
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
264.20
264.18
264.16
264.14
264.12
264.10
264.08
264.06
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
265.74
265.72
265.70
265.68
265.66
265.64
265.62
0
20
40
60
80
100
Scan

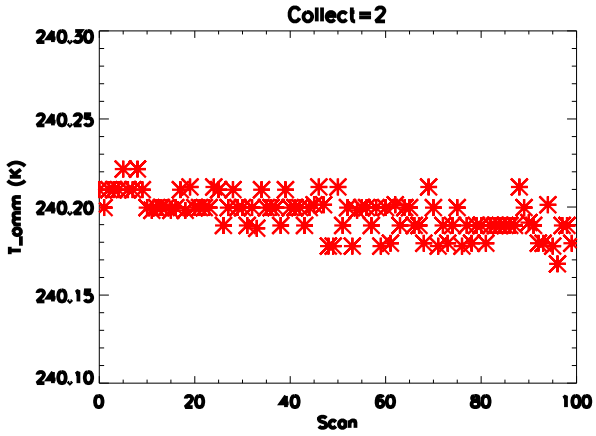

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
266.90
266.88
266.86
266.84
266.82
266.80
266.78
266.76
266.74
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
264.18
264.16
264.14
264.12
264.10
264.08
264.06
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
265.74
265.72
265.70
265.68
265.66
265.64
265.62
265.60
0
20
40
60
80
100
Scan

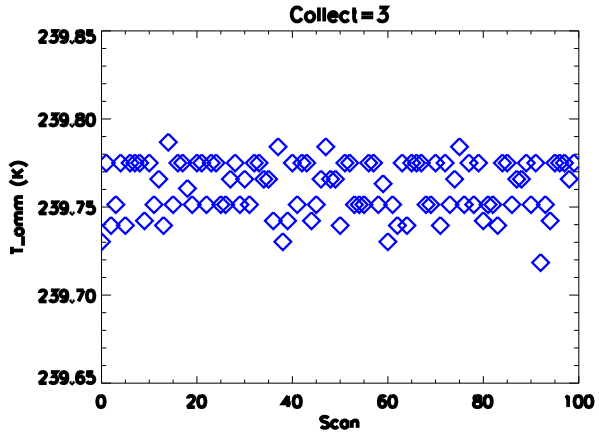

T_omm vs Scan and Collect
241.0
240.5
240.0
239.5
239.0
T_omm (K)
0
200
400
600
800
Collect*scan

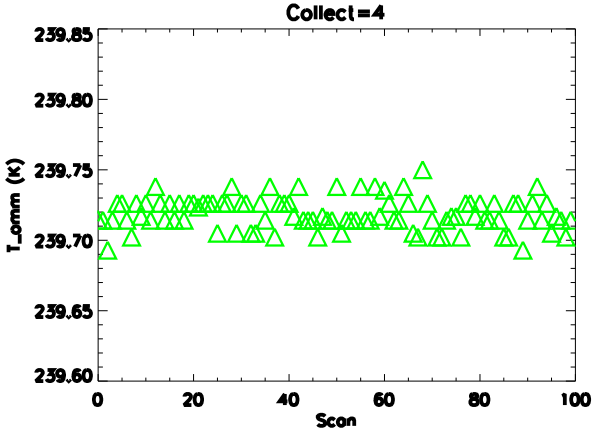

T_omm vs Time
241.0
240.5
240.0
239.5
239.0
T_omm (K)
−200
0
200
400
600
800
Time (min)

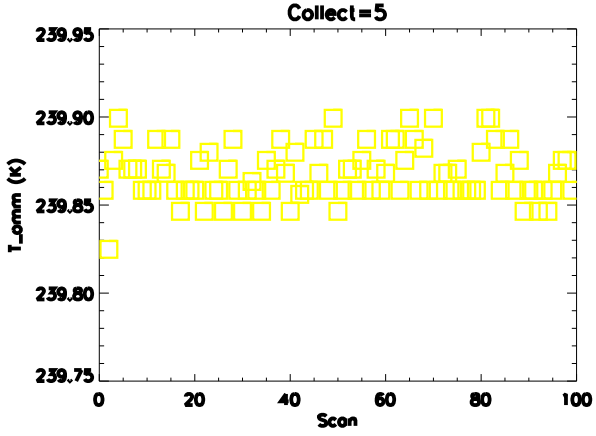
T_omm vs Scan

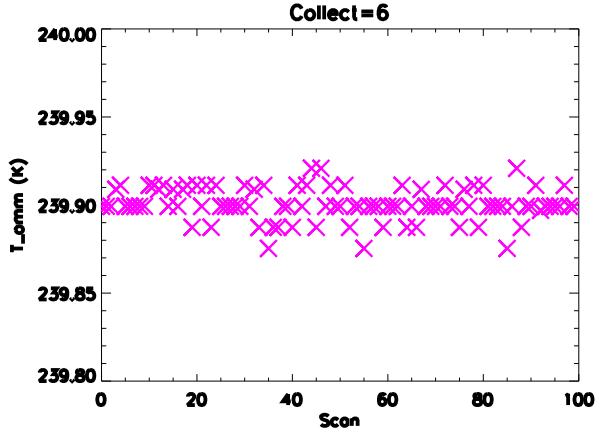

Collect=1
T_omm (K)
239.90
239.85
239.80
239.75
239.70
239.65
0
20
40
60
80
100
Scan

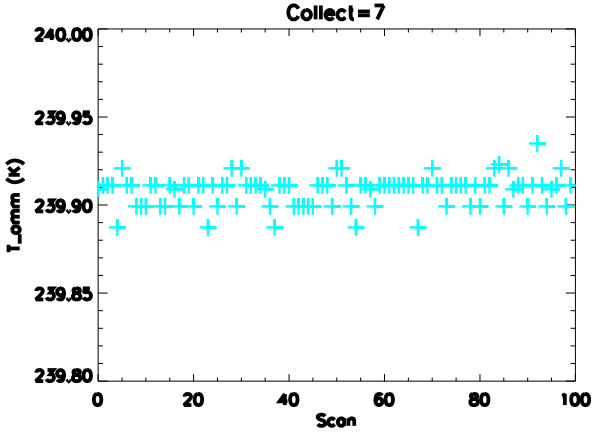

Collect=2
T_omm (K)
240.30
240.25
240.20
240.15
240.10
0
20
40
60
80
100
Scan


Collect=3
T_omm (K)
239.85
239.80
239.75
239.70
239.65
0
20
40
60
80
100
Scan


Collect=4
T_omm (K)
239.85
239.80
239.75
239.70
239.65
239.60
0
20
40
60
80
100
Scan


Collect=5
T_omm (K)
239.95
239.90
239.85
239.80
239.75
0
20
40
60
80
100
Scan


Collect=6
T_omm (K)
240.00
239.95
239.90
239.85
239.80
0
20
40
60
80
100
Scan


Collect=7
T_omm (K)
240.00
239.95
239.90
239.85
239.80
0
20
40
60
80
100
Scan