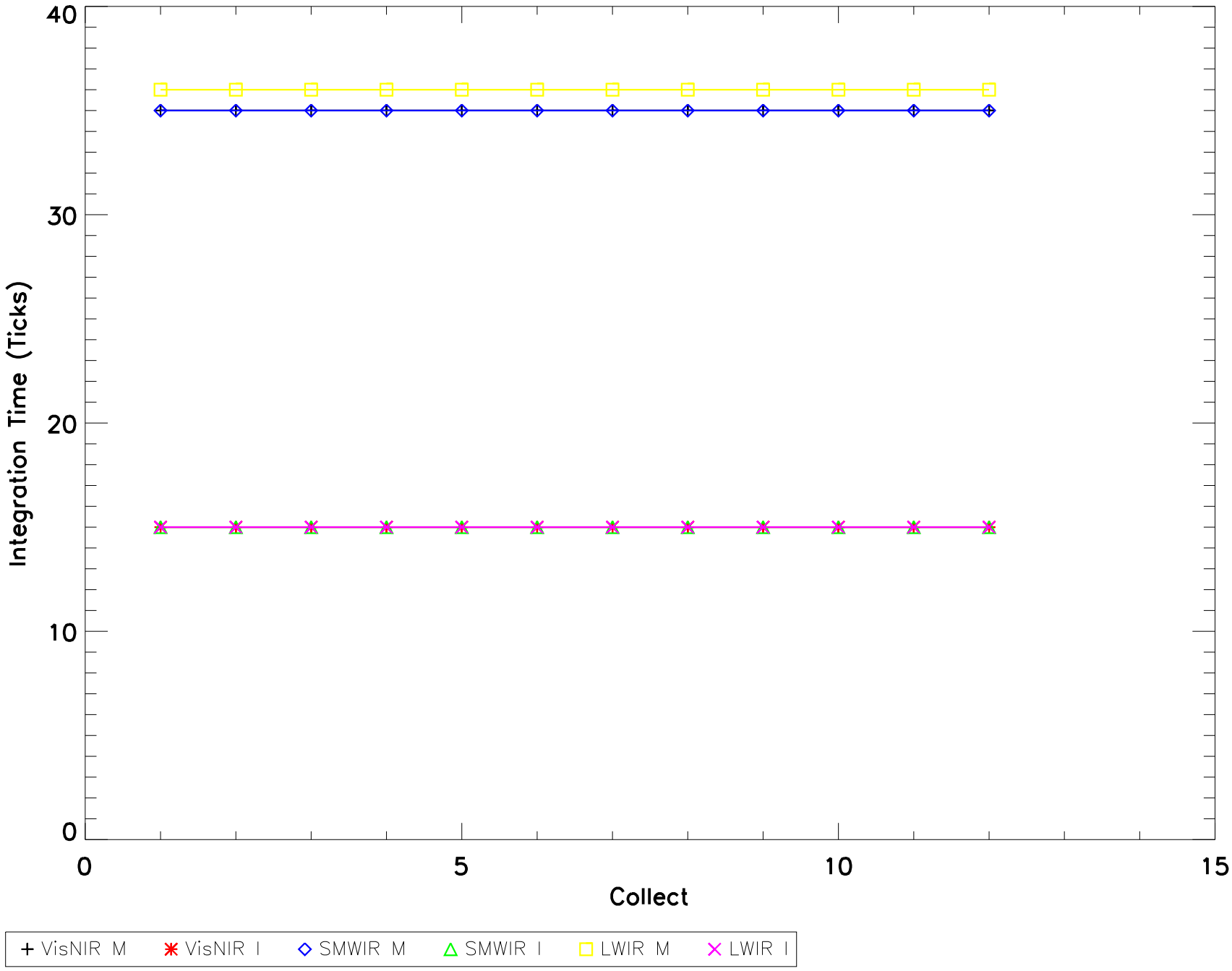
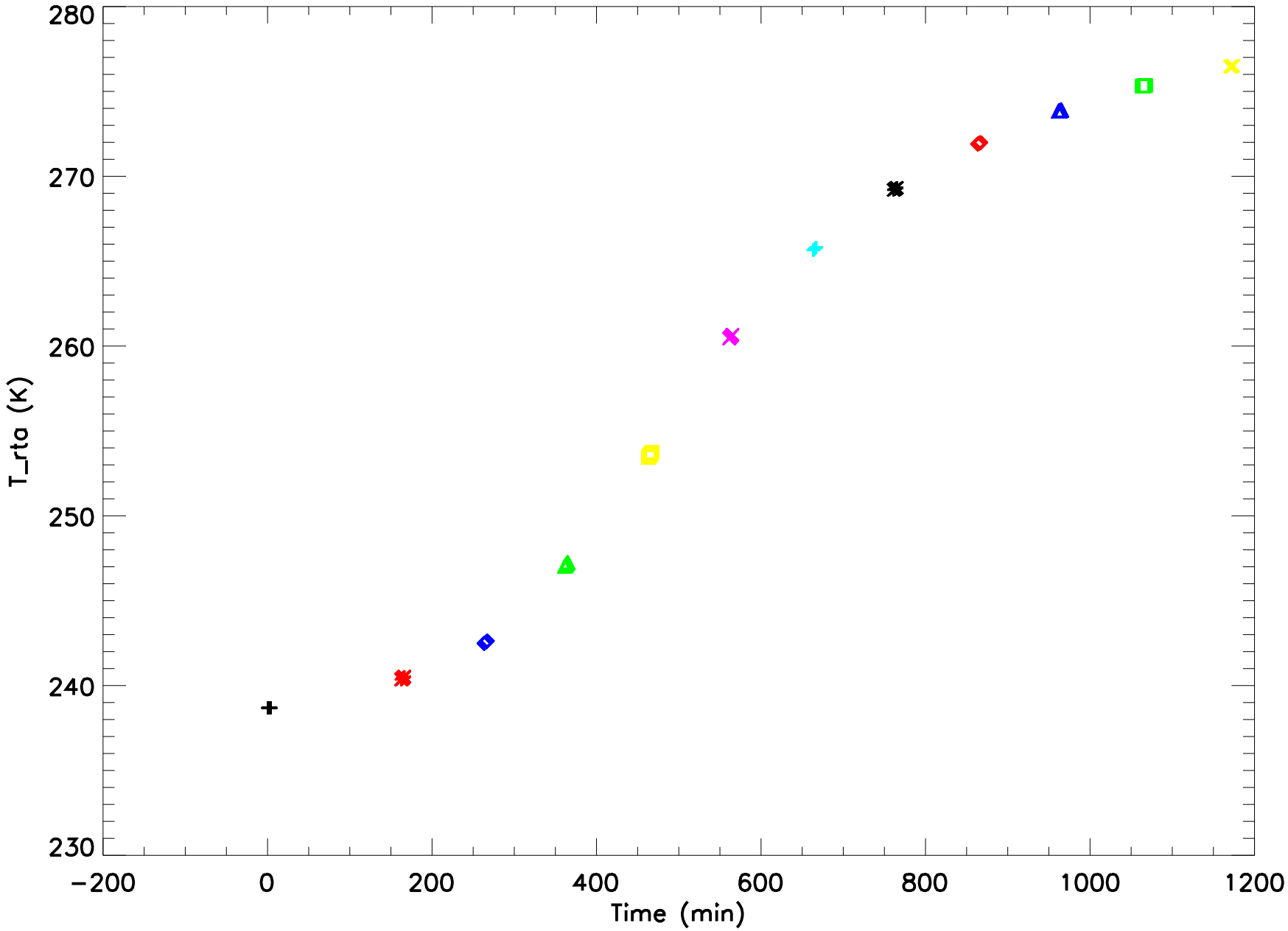
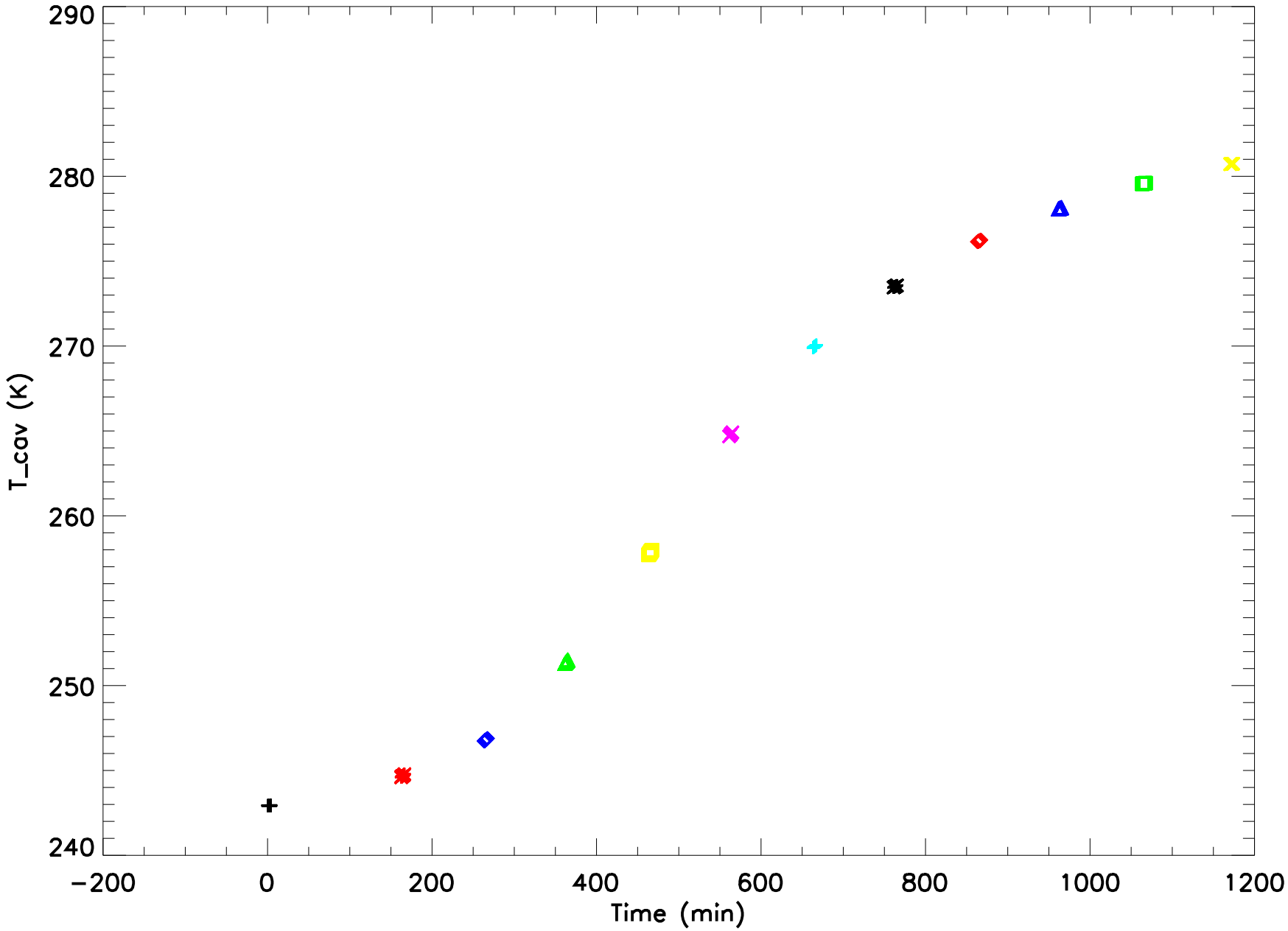
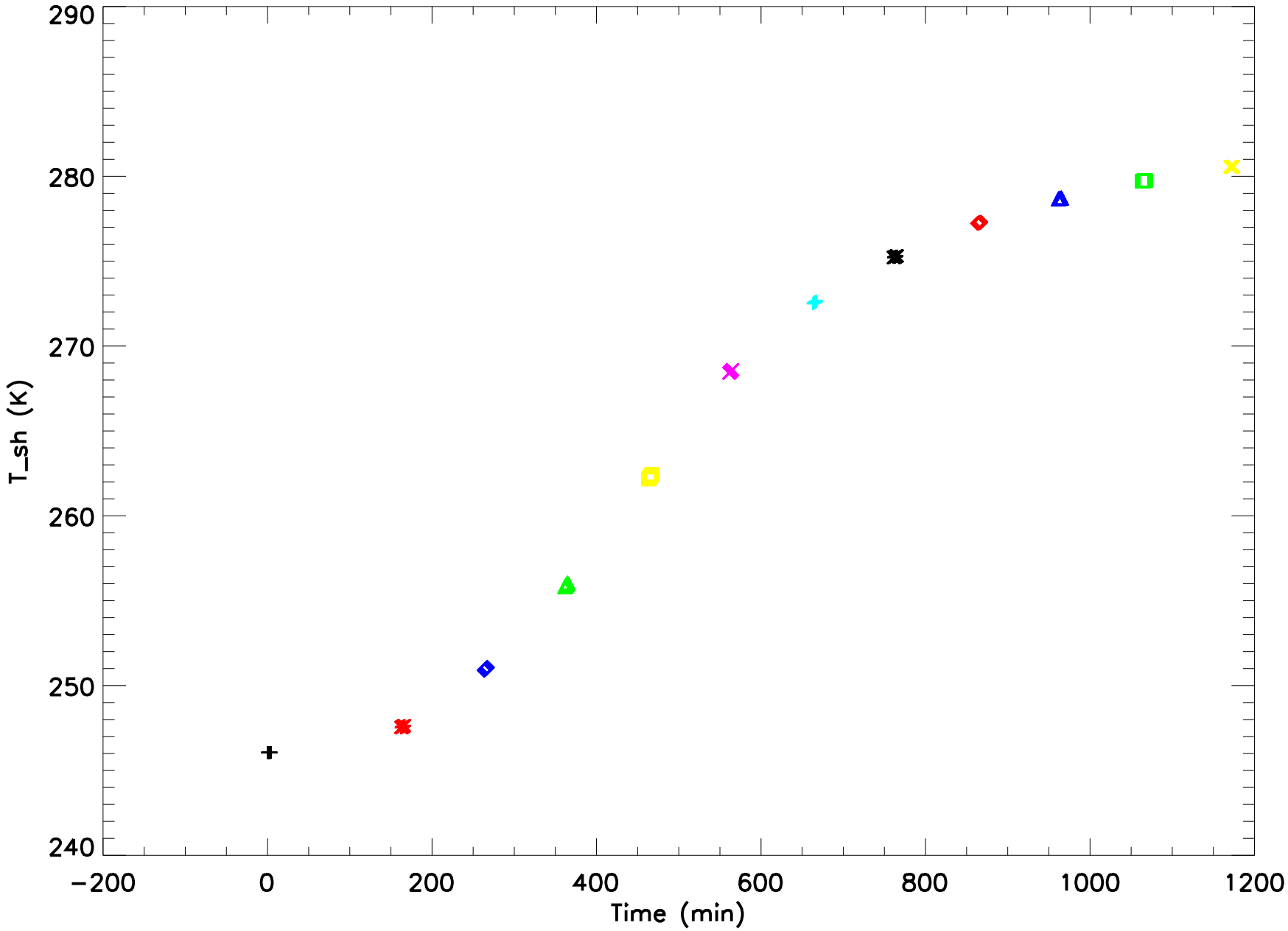
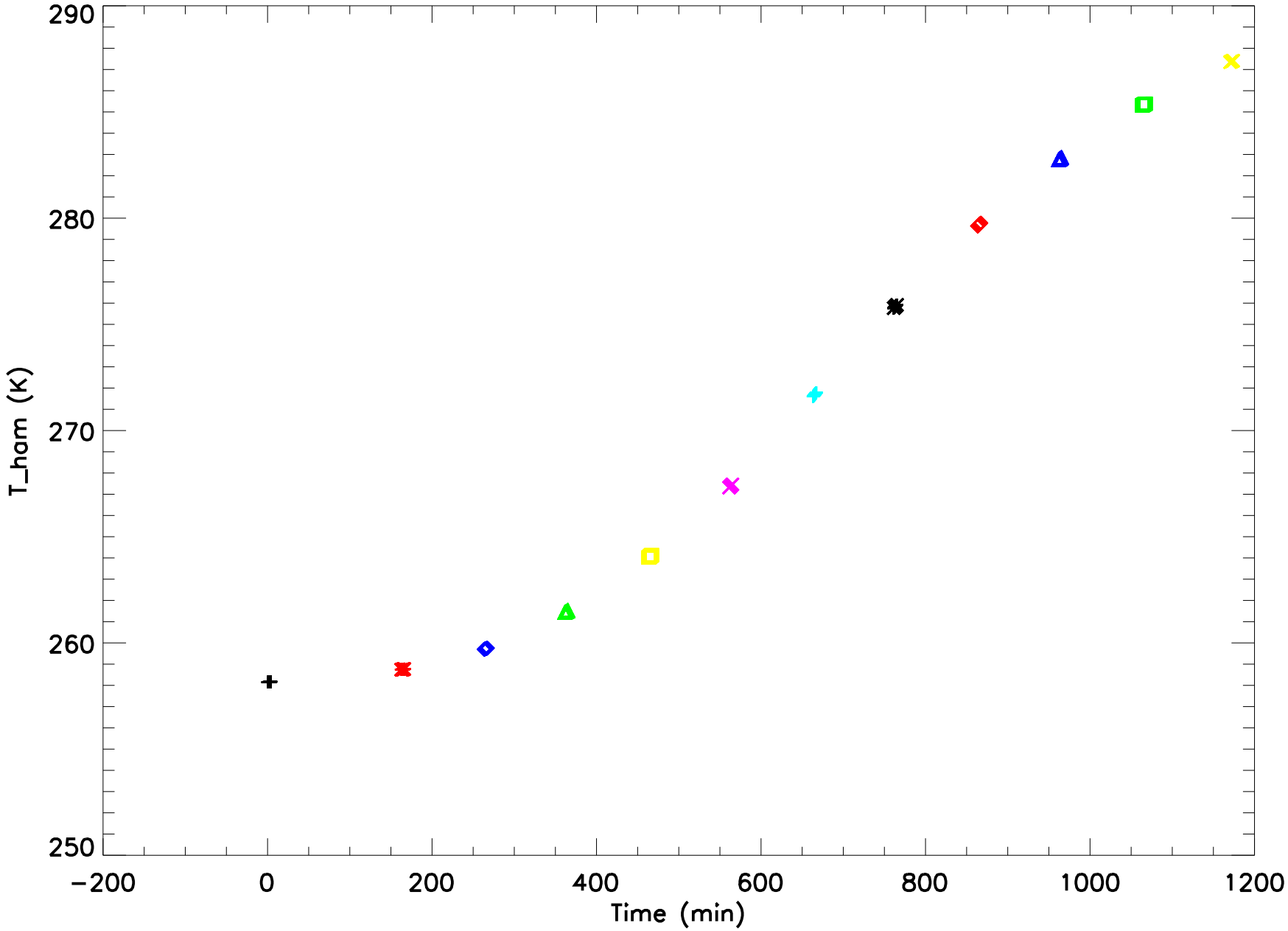
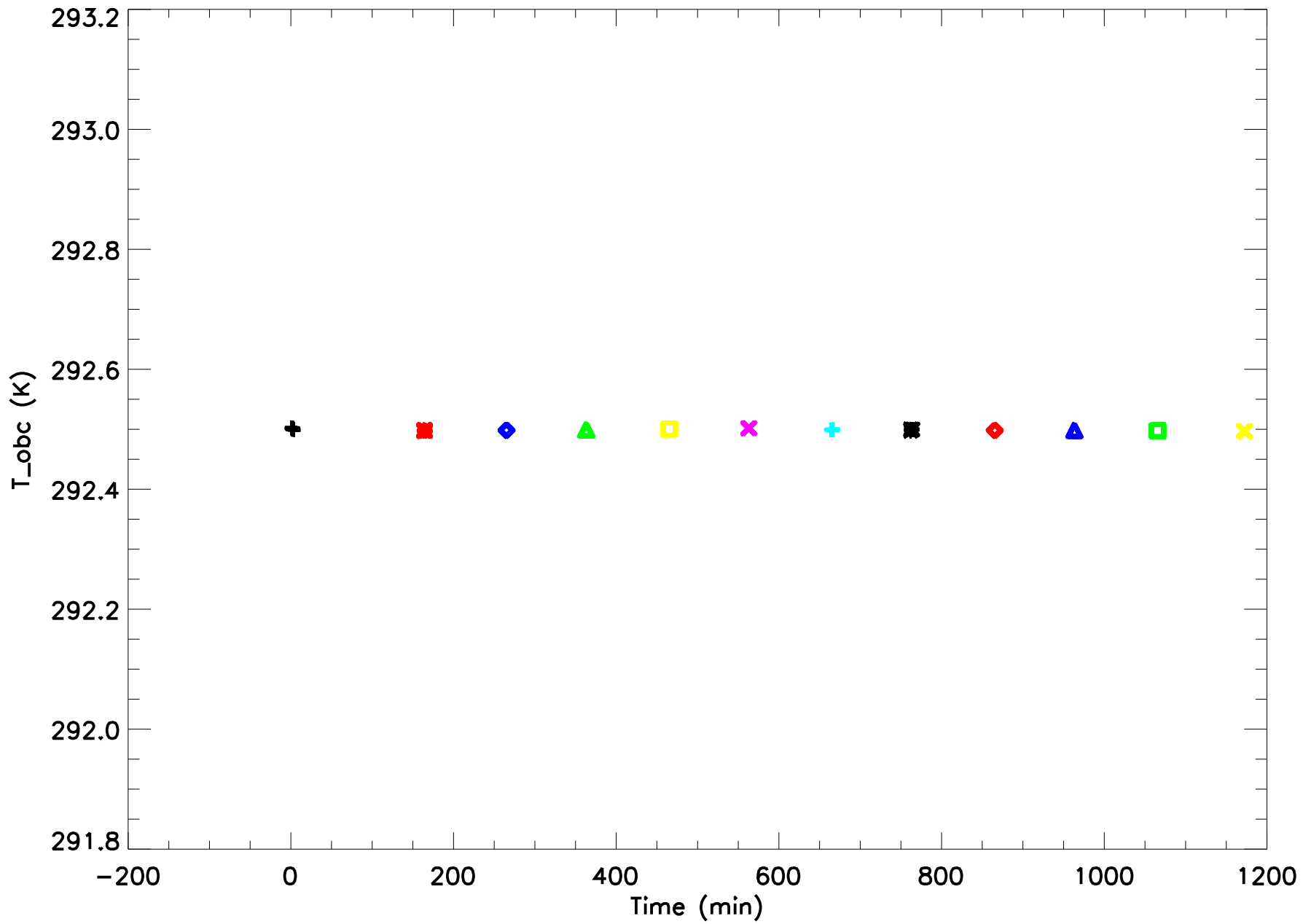

Integration Time vs Collect
Integration Time (Ticks)
40
30
20
10
0
0
5
10
15
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I


T_rta vs Time
280
270
260
250
240
230
T_rta (K)
−200
0
200
400
600
800
1000
1200
Time (min)

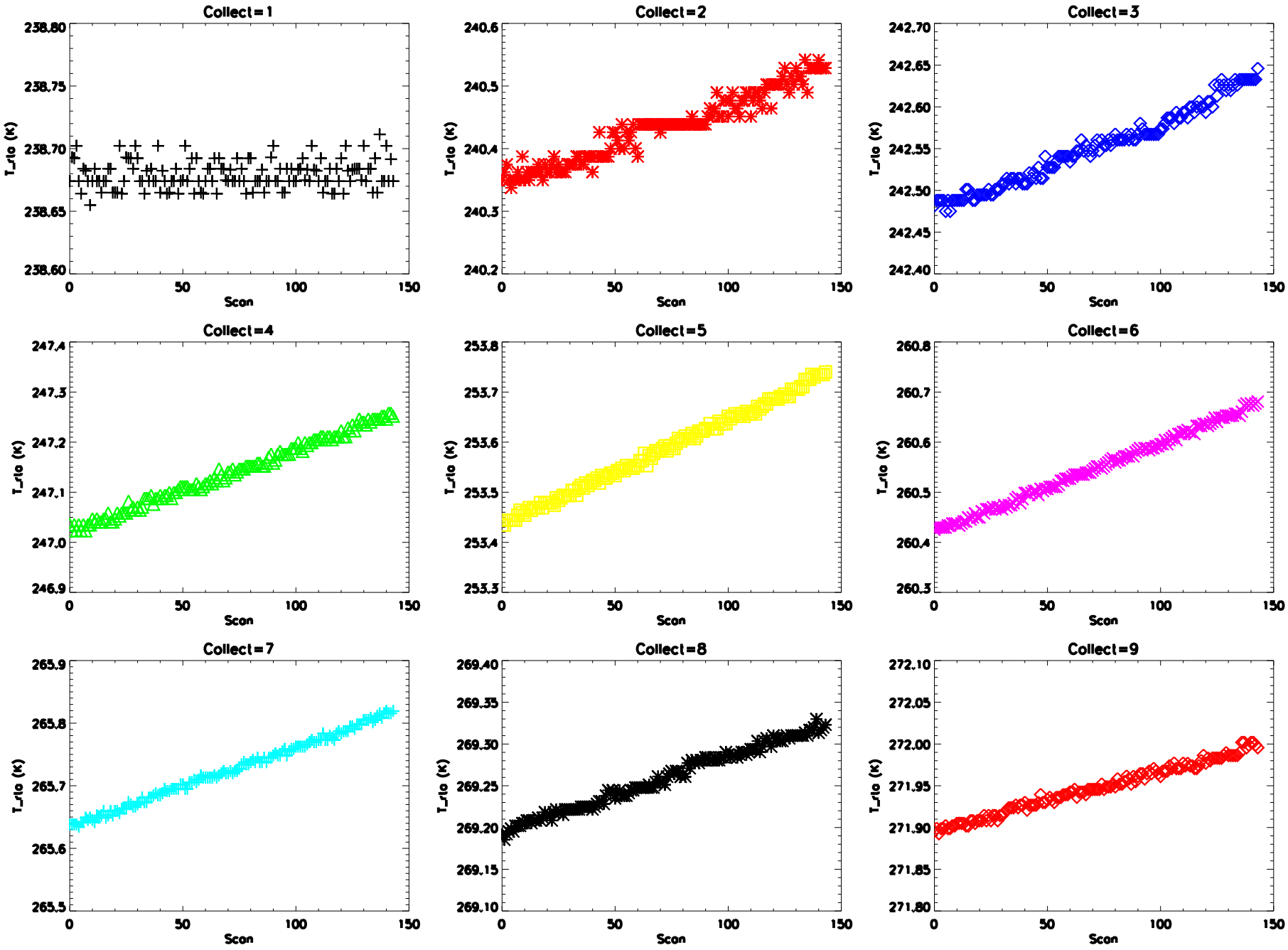

T_cav vs Time
290
280
270
260
250
240
T_cav (K)
−200
0
200
400
600
800
1000
1200
Time (min)


T_sh vs Time
290
280
270
260
250
240
T_sh (K)
−200
0
200
400
600
800
1000
1200
Time (min)

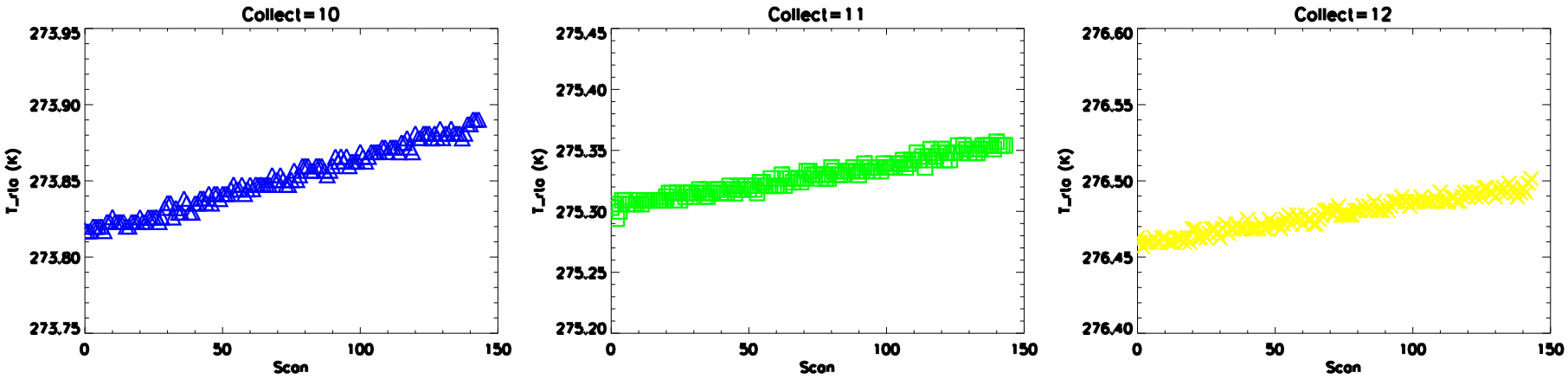

T_ham vs Time
290
280
270
260
250
T_ham (K)
−200
0
200
400
600
800
1000
1200
Time (min)


T_obc vs Time
293.2
293.0
292.8
292.6
292.4
292.2
292.0
291.8
T_obc (K)
−200
0
200
400
600
800
1000
1200
Time (min)

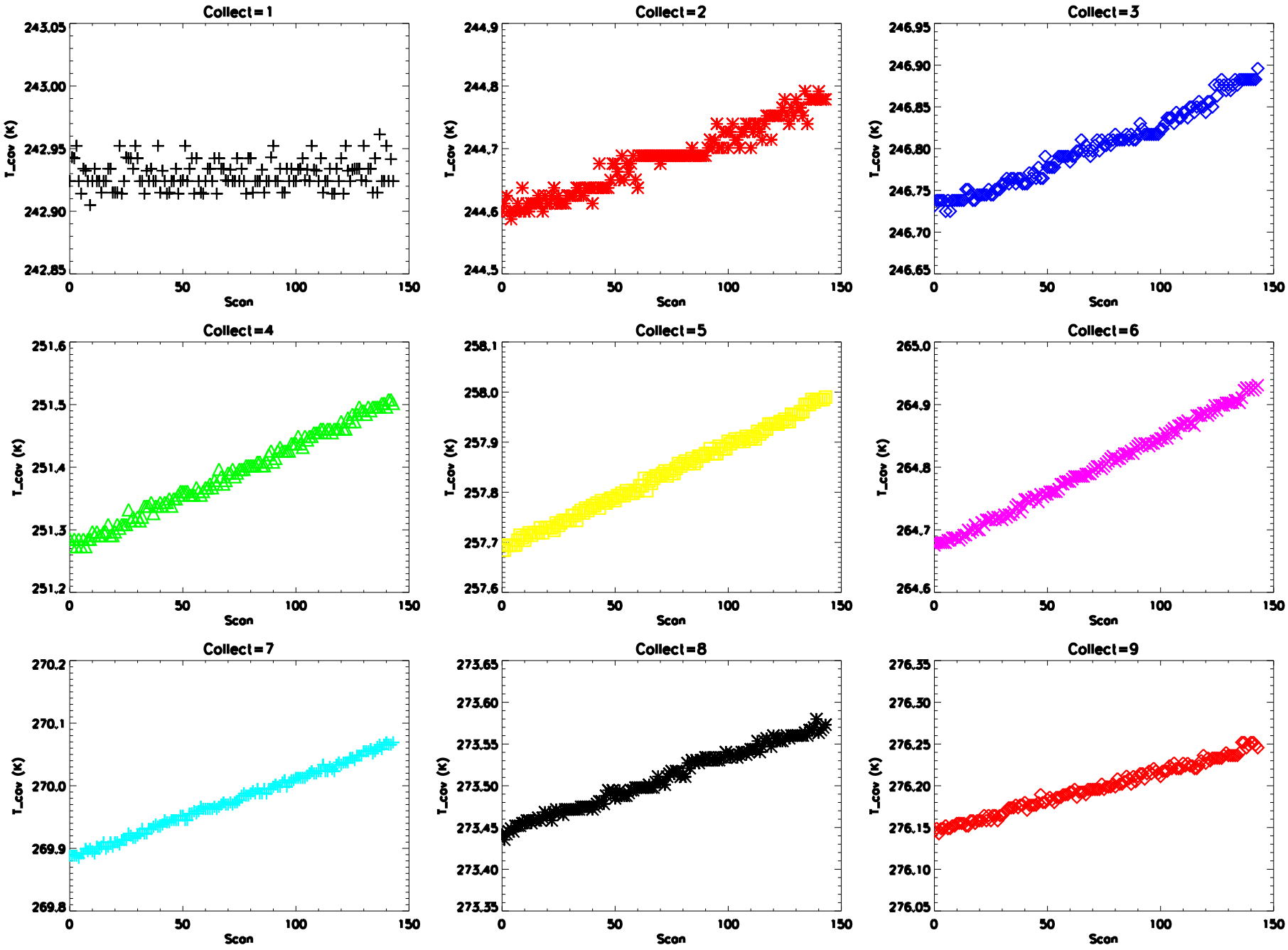
T_rta vs Scan


Collect=1
238.80
238.75
238.70
238.65
238.60
T_rta (K)
0
50
100
150
Scan
Collect=2
240.6
240.5
240.4
240.3
240.2
T_rta (K)
0
50
100
150
Scan
Collect=3
242.70
242.65
242.60
242.55
242.50
242.45
242.40
T_rta (K)
0
50
100
150
Scan
Collect=4
247.4
247.3
247.2
247.1
247.0
246.9
T_rta (K)
0
50
100
150
Scan
Collect=5
253.8
253.7
253.6
253.5
253.4
253.3
T_rta (K)
0
50
100
150
Scan
Collect=6
260.8
260.7
260.6
260.5
260.4
260.3
T_rta (K)
0
50
100
150
Scan
Collect=7
265.9
265.8
265.7
265.6
265.5
T_rta (K)
0
50
100
150
Scan
Collect=8
269.40
269.35
269.30
269.25
269.20
269.15
269.10
T_rta (K)
0
50
100
150
Scan
Collect=9
272.10
272.05
272.00
271.95
271.90
271.85
271.80
T_rta (K)
0
50
100
150
Scan

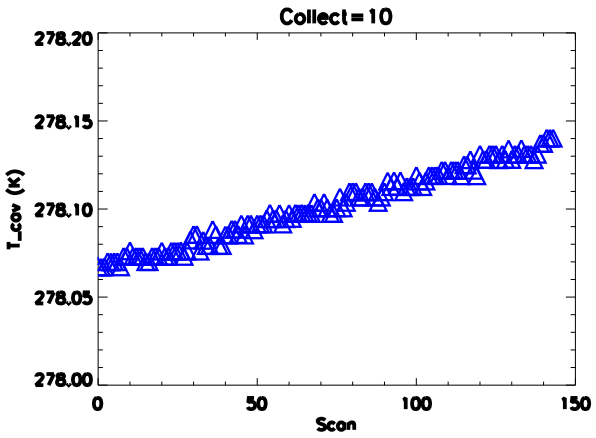
T_rta vs Scan

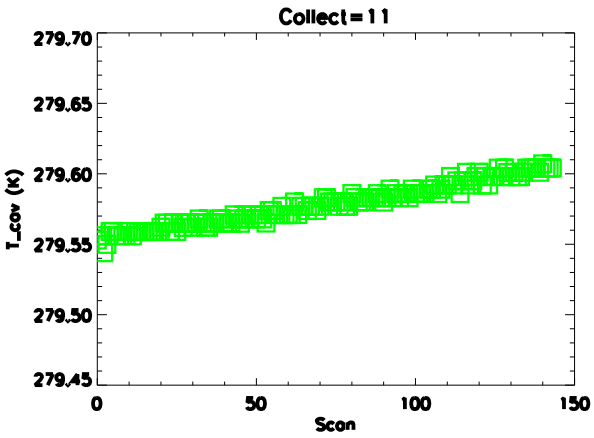

Collect = 10
T_rta (K)
273.95
273.90
273.85
273.80
273.75
0
50
100
150
Scan
Collect = 11
T_rta (K)
275.45
275.40
275.35
275.30
275.25
275.20
0
50
100
150
Scan
Collect = 12
T_rta (K)
276.60
276.55
276.50
276.45
276.40
0
50
100
150
Scan

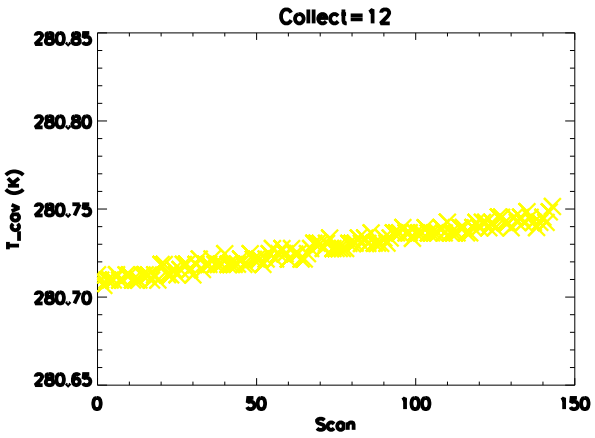
T_cav vs Scan

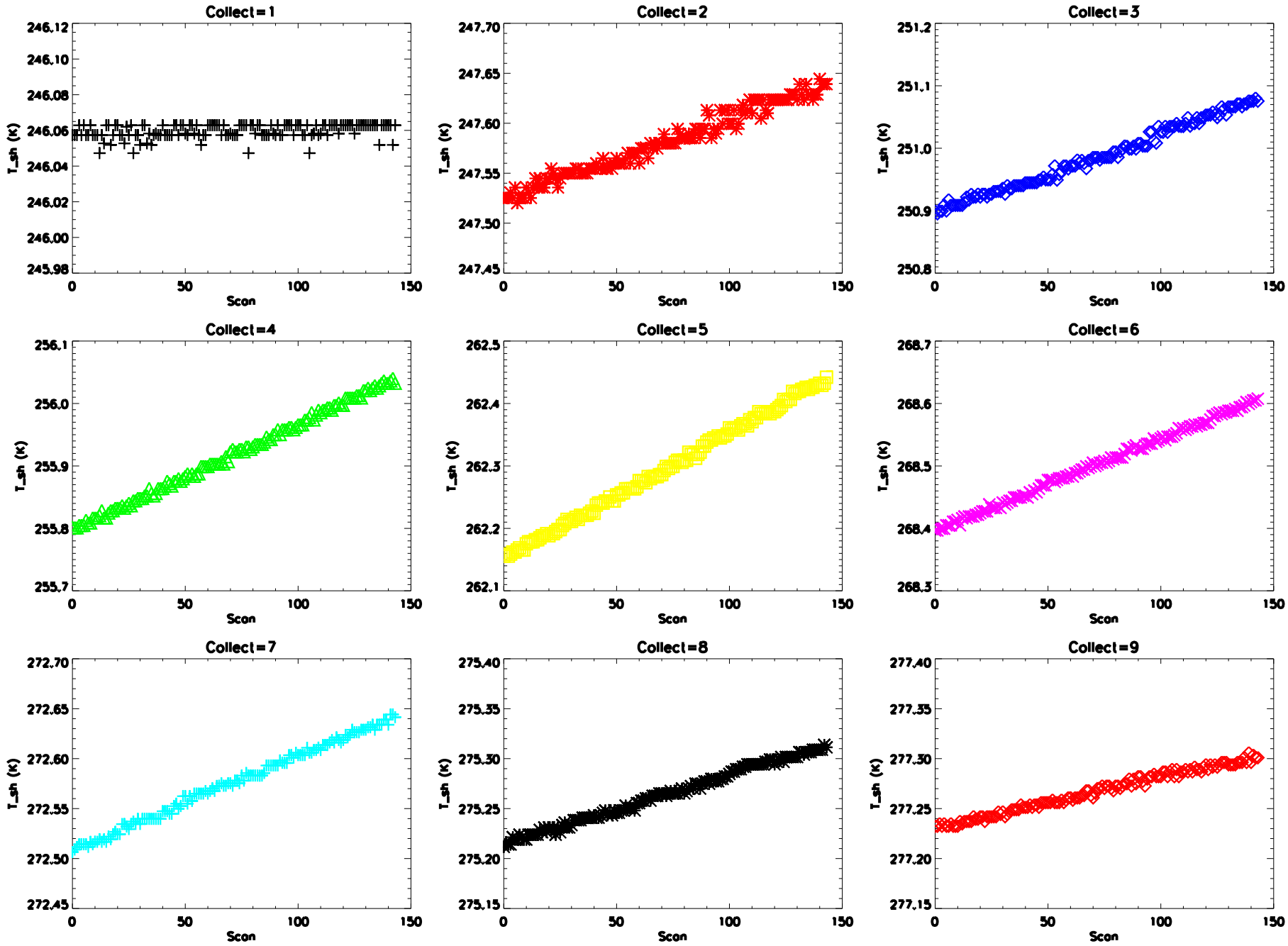

Collect=1
243.05
243.00
242.95
242.90
242.85
T_cav (K)
0
50
100
150
Scan
Collect=2
244.9
244.8
244.7
244.6
244.5
T_cav (K)
0
50
100
150
Scan
Collect=3
246.95
246.90
246.85
246.80
246.75
246.70
246.65
T_cav (K)
0
50
100
150
Scan
Collect=4
251.6
251.5
251.4
251.3
251.2
T_cav (K)
0
50
100
150
Scan
Collect=5
258.1
258.0
257.9
257.8
257.7
257.6
T_cav (K)
0
50
100
150
Scan
Collect=6
265.0
264.9
264.8
264.7
264.6
T_cav (K)
0
50
100
150
Scan
Collect=7
270.2
270.1
270.0
269.9
269.8
T_cav (K)
0
50
100
150
Scan
Collect=8
273.65
273.60
273.55
273.50
273.45
273.40
273.35
T_cav (K)
0
50
100
150
Scan
Collect=9
276.35
276.30
276.25
276.20
276.15
276.10
276.05
T_cav (K)
0
50
100
150
Scan

T_cav vs Scan

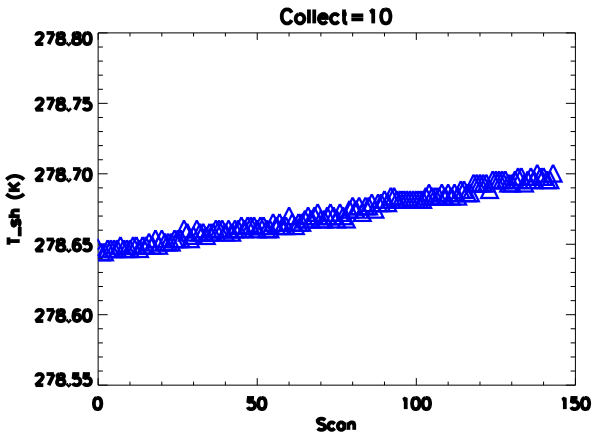

Collect = 10
278.20
278.15
278.10
278.05
278.00
T_cav (K)
0
50
100
150
Scan

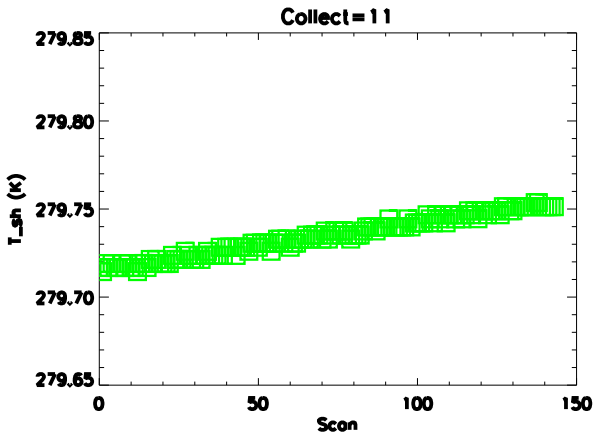

Collect = 11
279.70
279.65
279.60
279.55
279.50
279.45
T_cav (K)
0
50
100
150
Scan

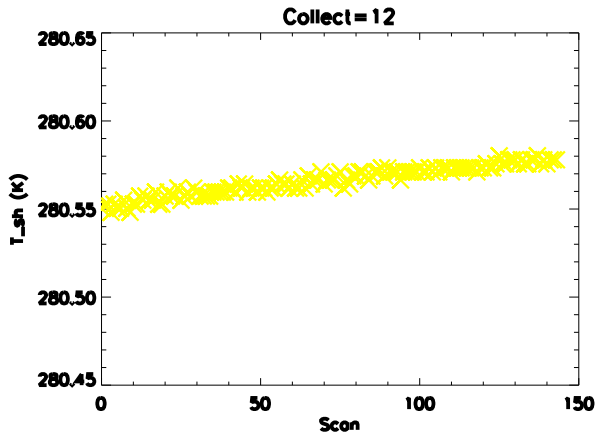

Collect = 12
280.85
280.80
280.75
280.70
280.65
T_cav (K)
0
50
100
150
Scan


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

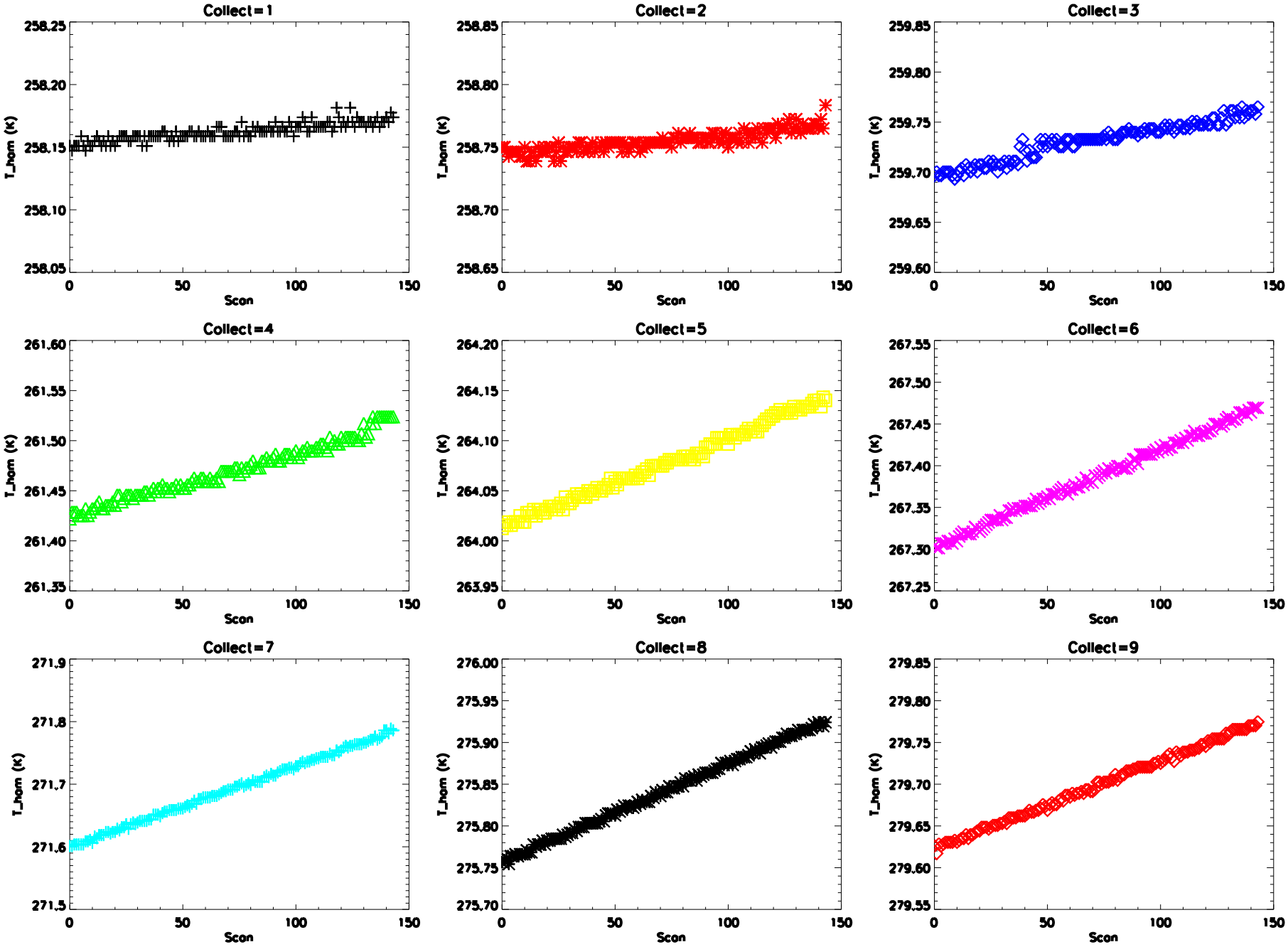
T_sh vs Scan


Collect = 10
278.80
278.75
278.70
278.65
278.60
278.55
T_sh (K)
0
50
100
150
Scan

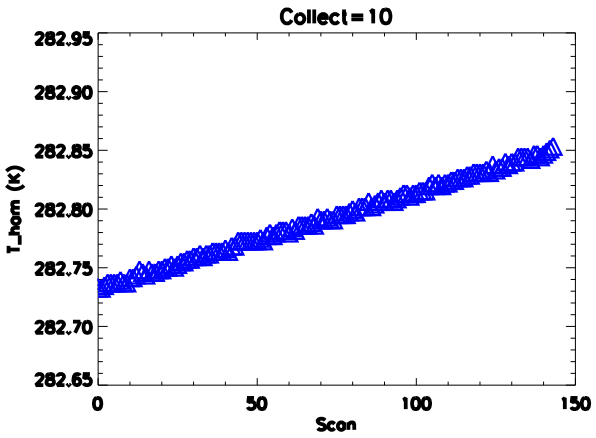

Collect = 11
279.85
279.80
279.75
279.70
279.65
T_sh (K)
0
50
100
150
Scan

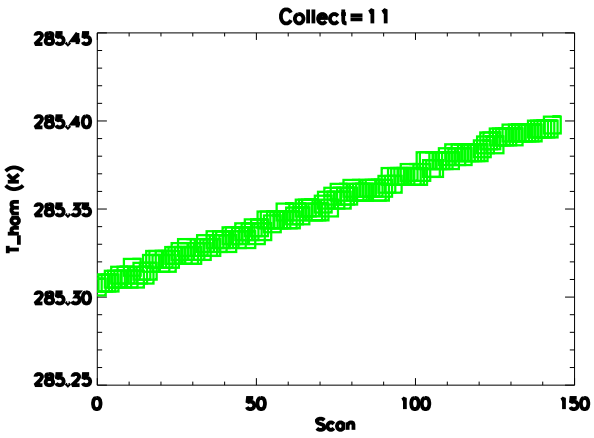

Collect = 12
280.65
280.60
280.55
280.50
280.45
T_sh (K)
0
50
100
150
Scan

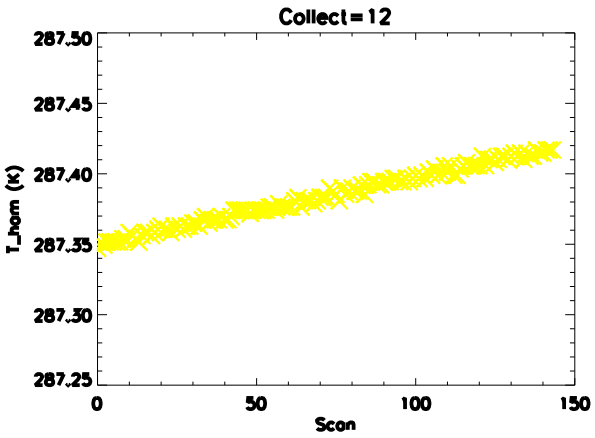
T_ham vs Scan


Collect=1
T_ham (K)
258.25
258.20
258.15
258.10
258.05
Collect=2
T_ham (K)
258.85
258.80
258.75
258.70
258.65
Collect=3
T_ham (K)
259.85
259.80
259.75
259.70
259.65
259.60
Collect=4
T_ham (K)
261.60
261.55
261.50
261.45
261.40
261.35
Collect=5
T_ham (K)
264.20
264.15
264.10
264.05
264.00
263.95
Collect=6
T_ham (K)
267.55
267.50
267.45
267.40
267.35
267.30
267.25
Collect=7
T_ham (K)
271.9
271.8
271.7
271.6
271.5
Collect=8
T_ham (K)
276.00
275.95
275.90
275.85
275.80
275.75
275.70
Collect=9
T_ham (K)
279.85
279.80
279.75
279.70
279.65
279.60
279.55
0
50
100
150
Scan

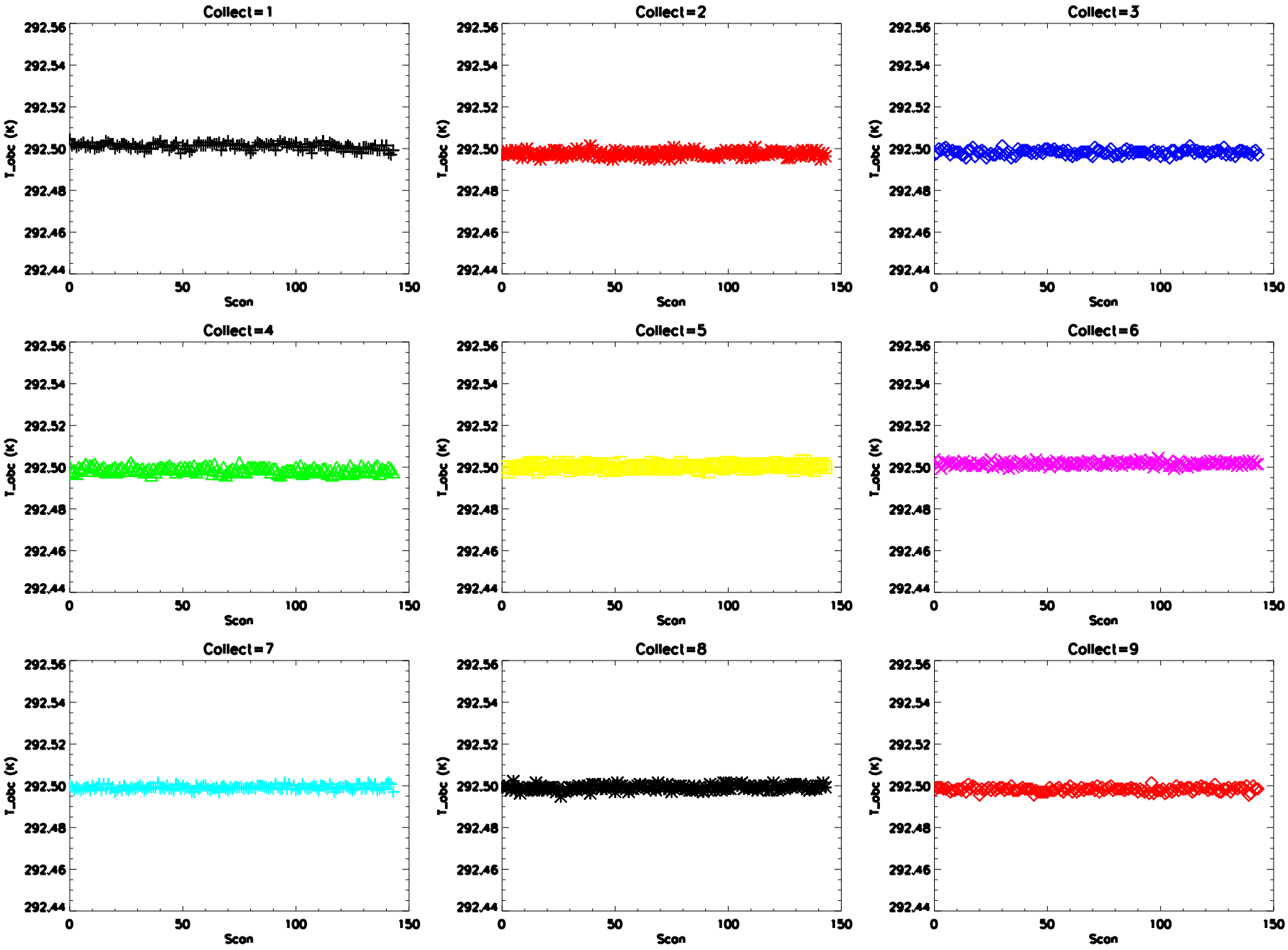
T_ham vs Scan


Collect = 10
282.95
282.90
282.85
282.80
282.75
282.70
282.65
T_ham (K)
0
50
100
150
Scan

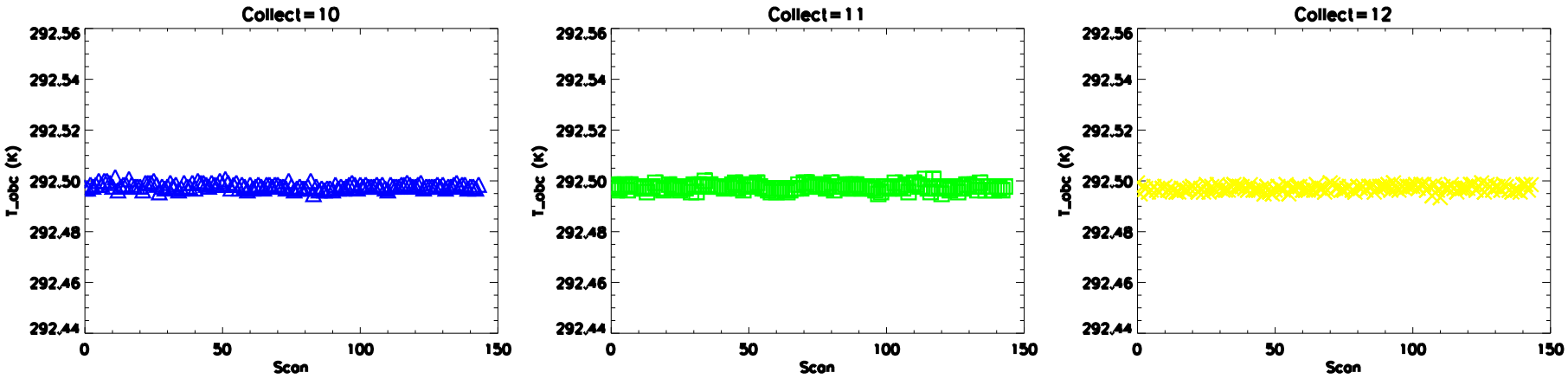

Collect = 11
285.45
285.40
285.35
285.30
285.25
T_ham (K)
0
50
100
150
Scan

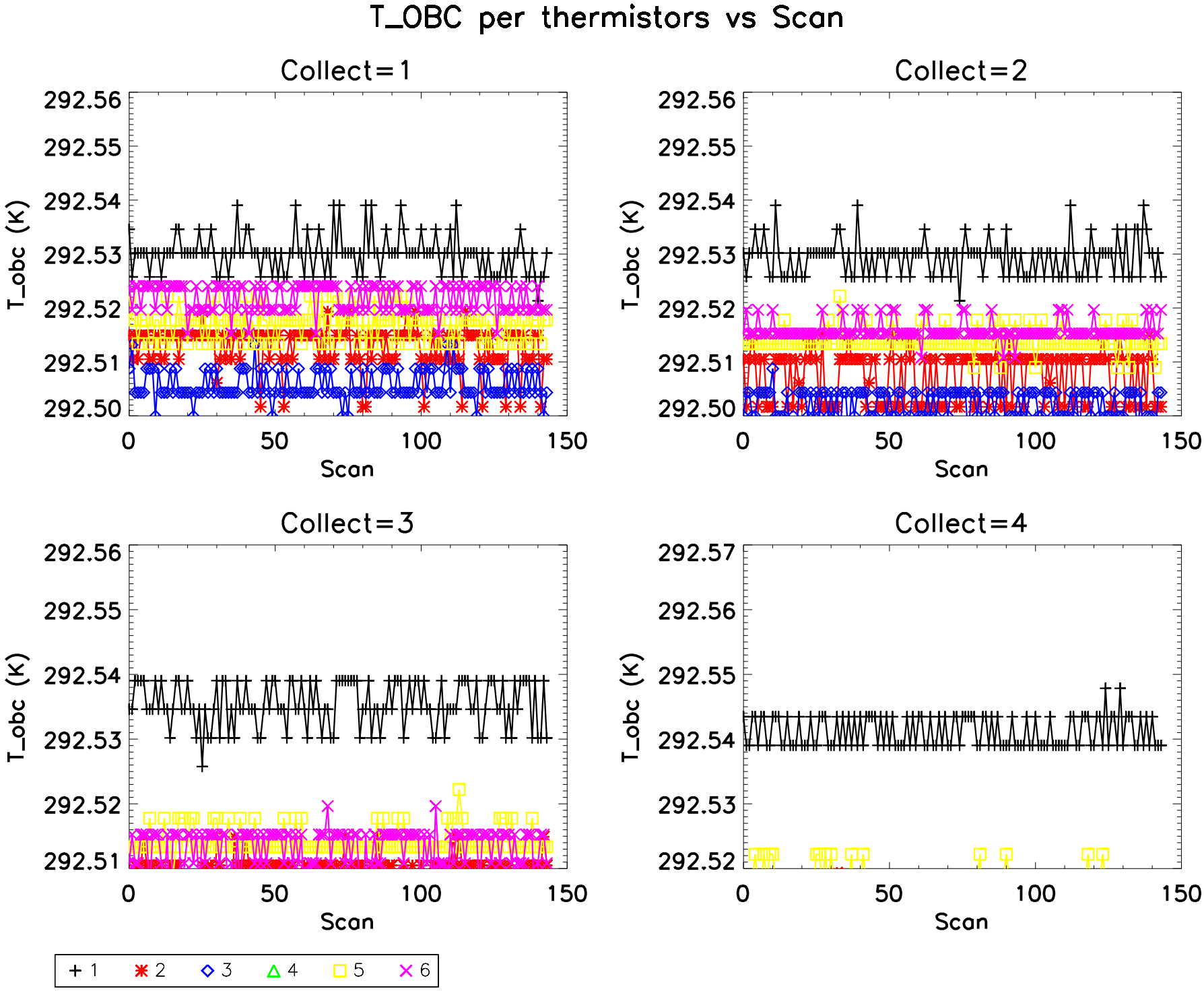

Collect = 12
287.50
287.45
287.40
287.35
287.30
287.25
T_ham (K)
0
50
100
150
Scan

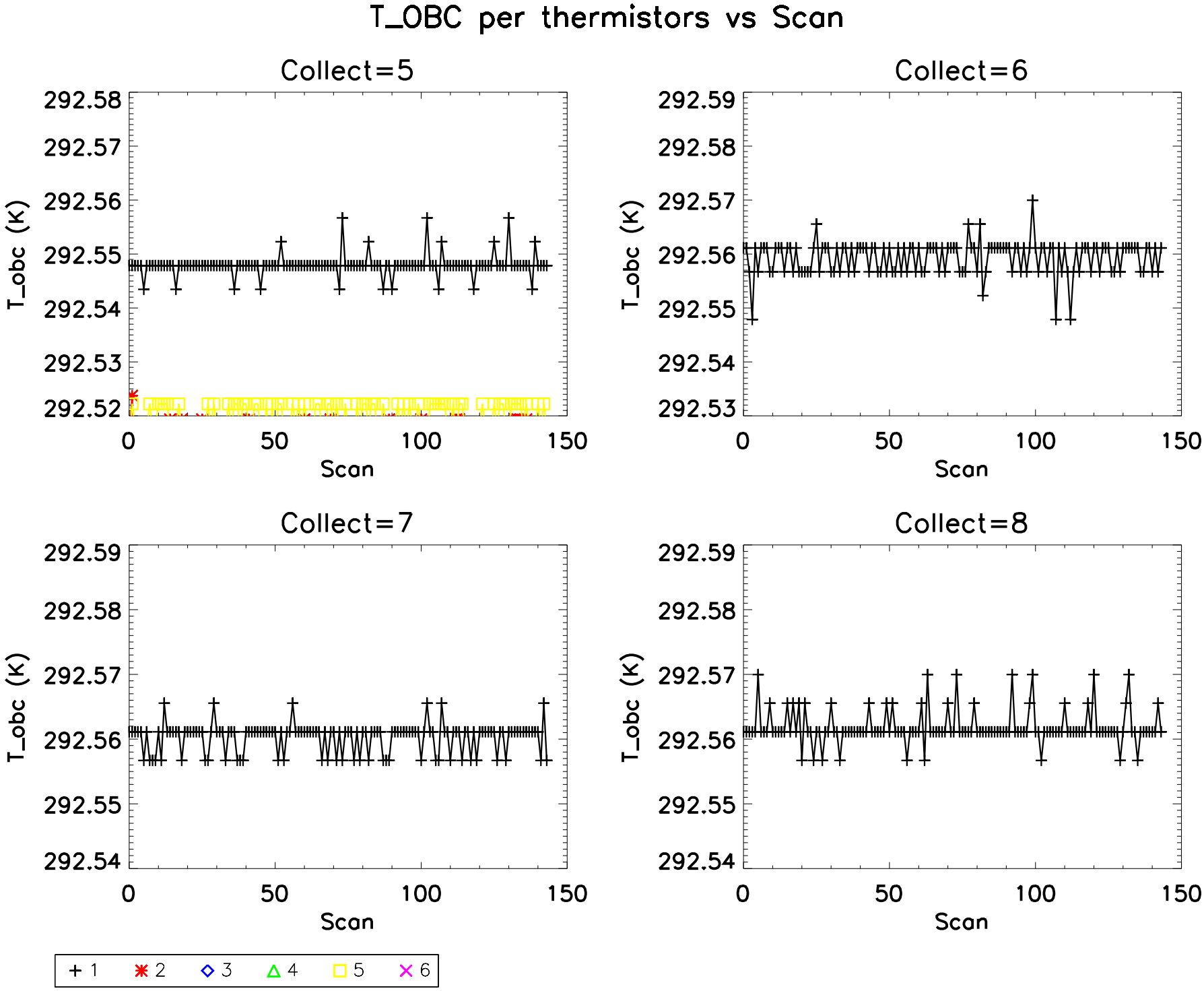
T_obc vs Scan

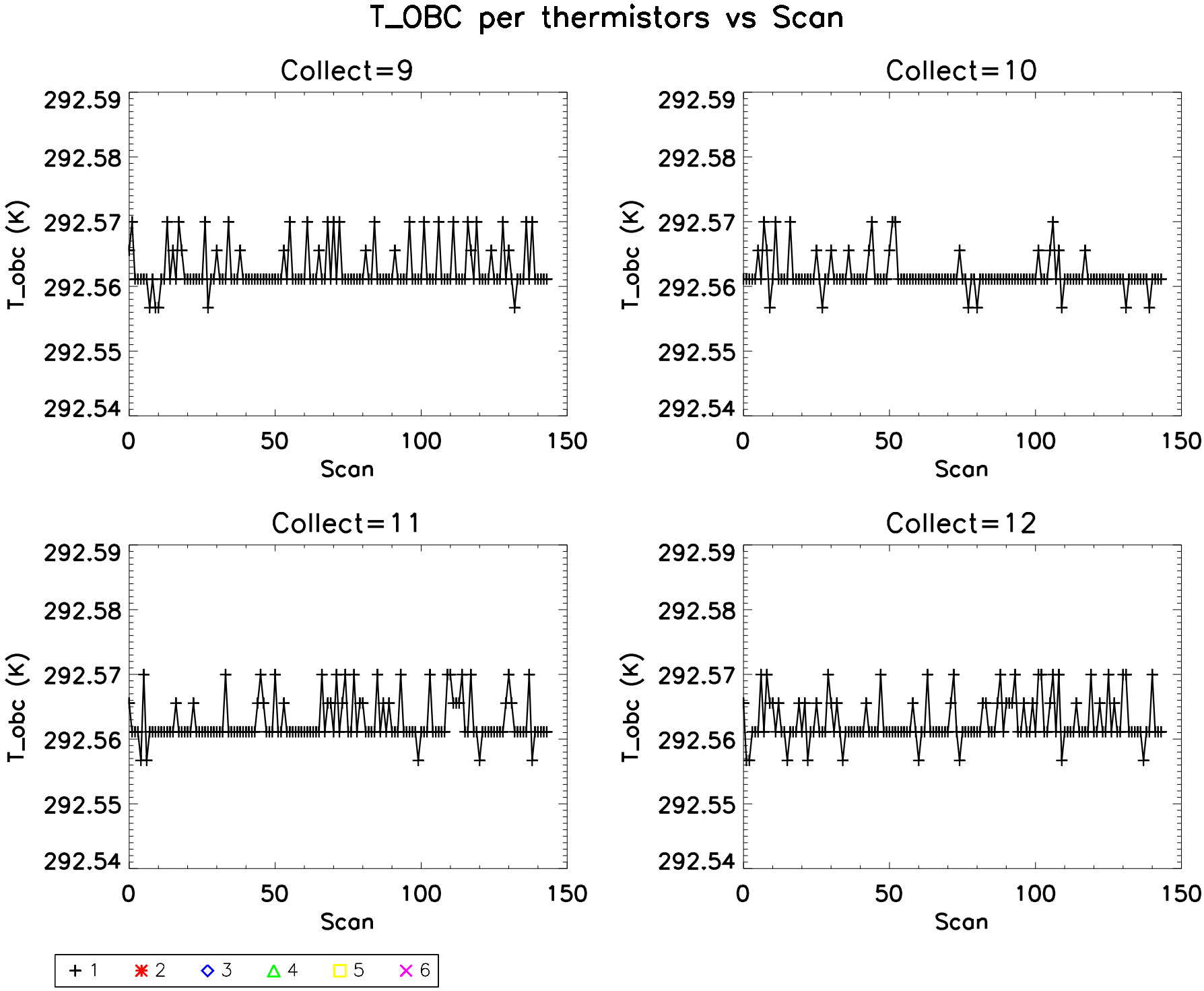

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan
292.56
292.54
292.52
292.50
292.48
292.46
292.44
0
50
100
150

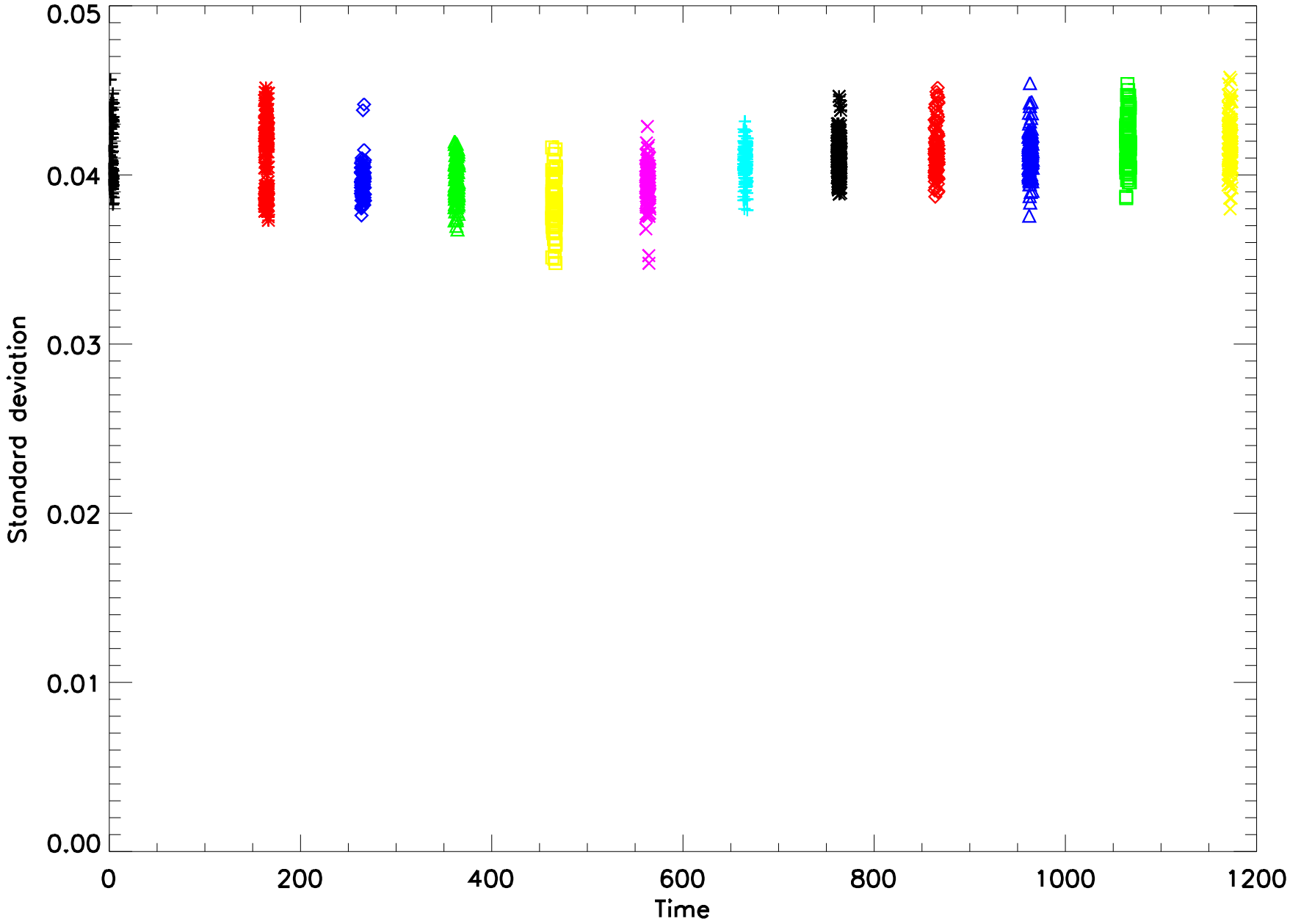
T_obc vs Scan

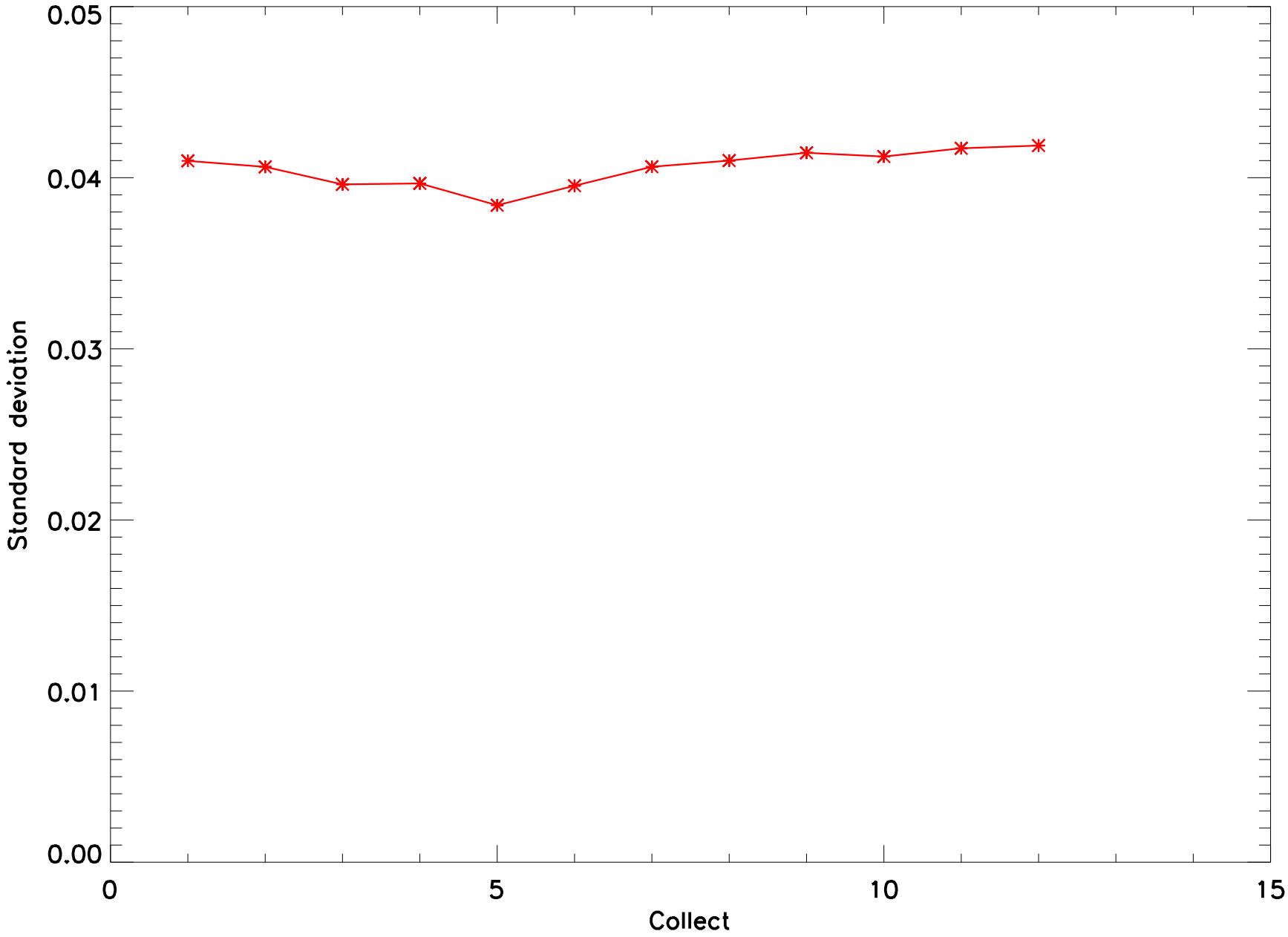

Collect = 10
Collect = 11
Collect = 12
T_obc (K)
Scan
292.56
292.54
292.52
292.50
292.48
292.46
292.44
0
50
100
150

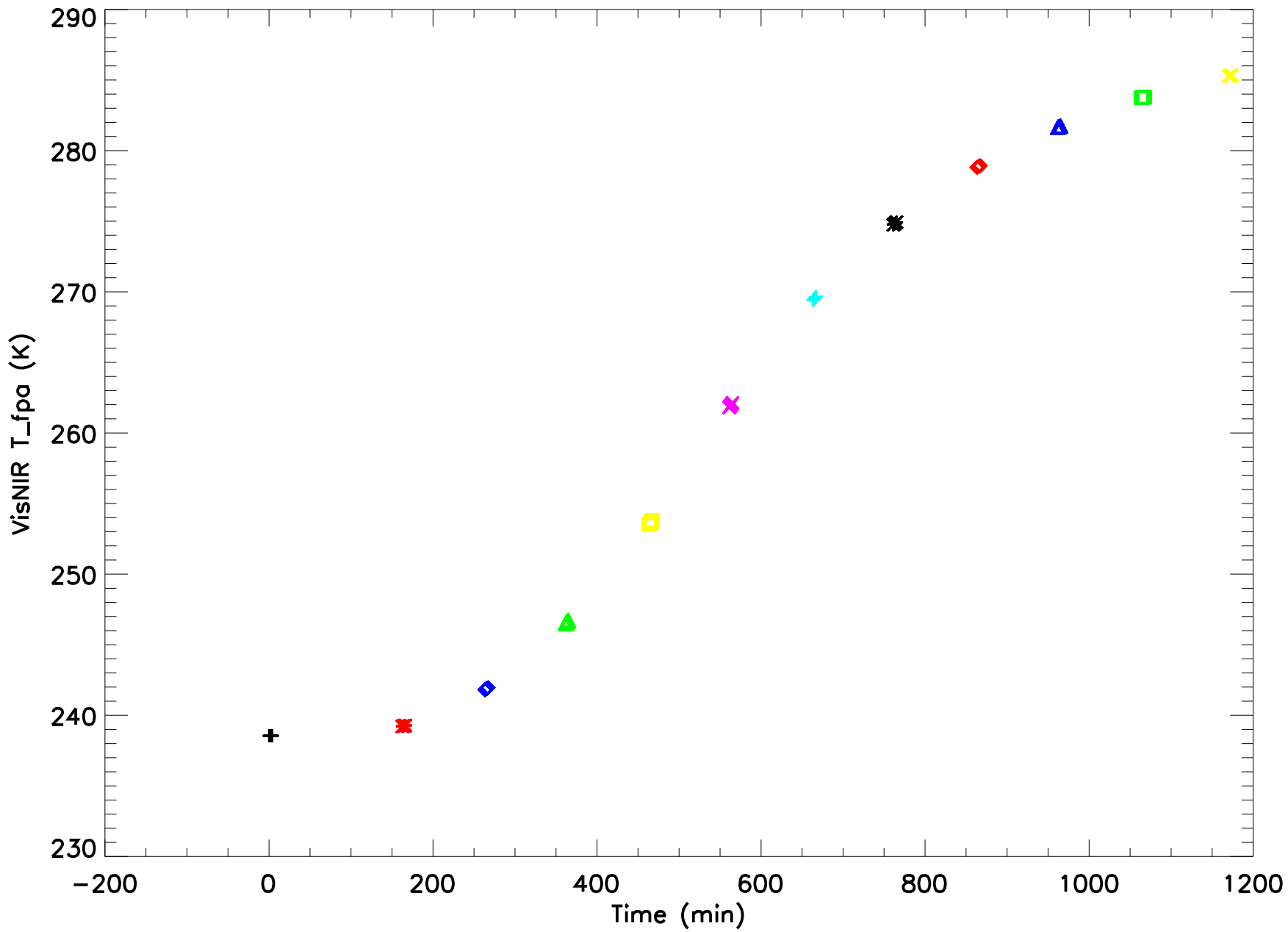

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
Scan
292.56
292.55
292.54
292.53
292.52
292.51
292.50
292.57
0
50
100
150
1
2
3
4
5
6

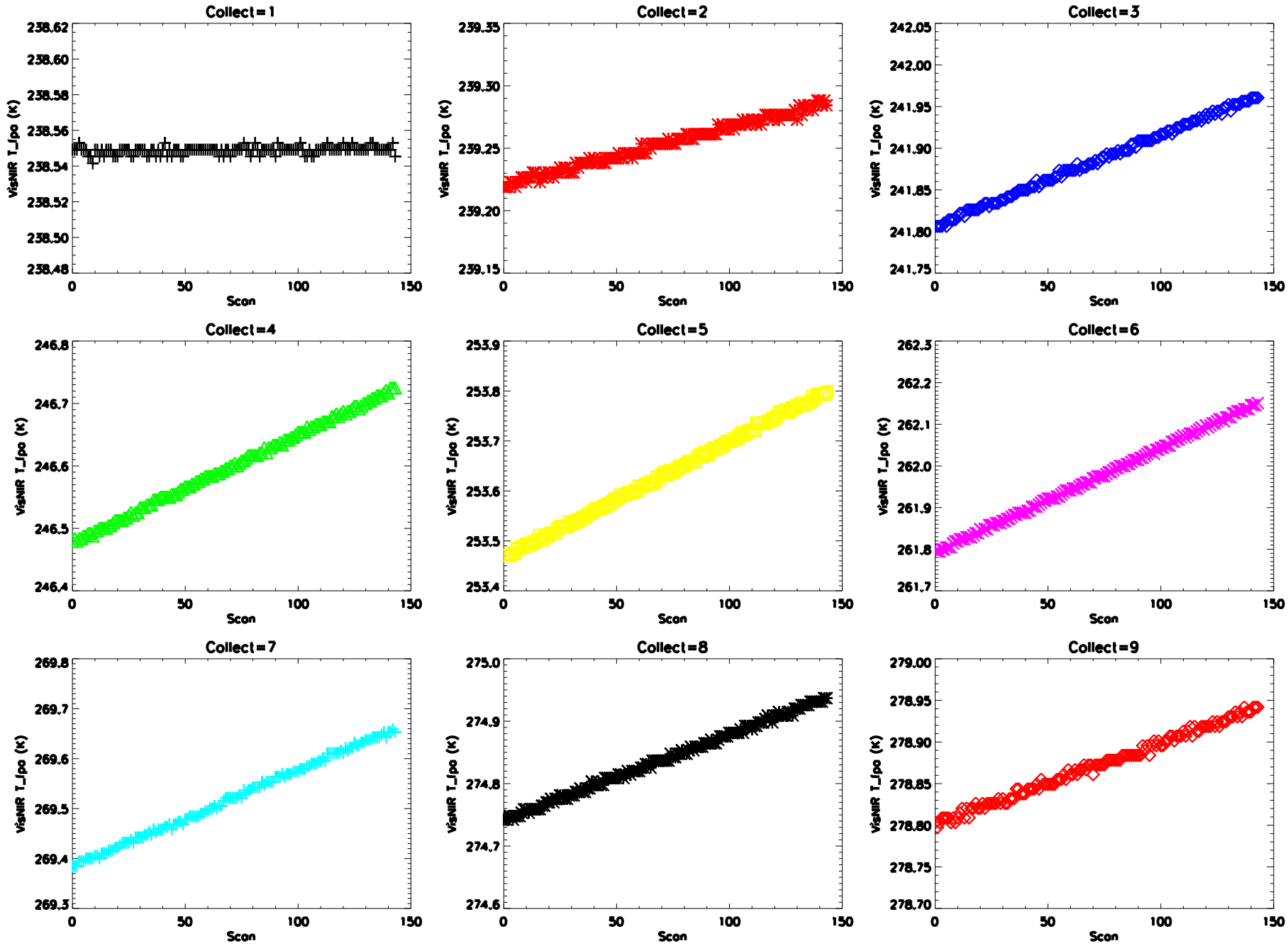

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
Scan
292.58
292.57
292.56
292.55
292.54
292.53
292.52
292.59
0
50
100
150
1
2
3
4
5
6


T_OBC per thermistors vs Scan
Collect=9
Collect=10
Collect=11
Collect=12
T_obc (K)
Scan
292.59
292.58
292.57
292.56
292.55
292.54
0
50
100
150
1
2
3
4
5
6

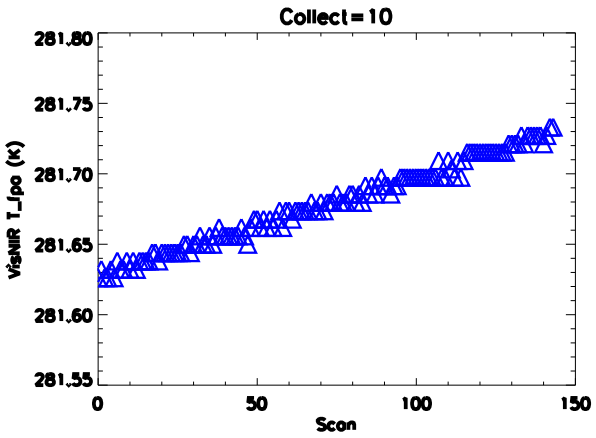

OBC thermistor standard deviation vs Time
Standard deviation
0.05
0.04
0.03
0.02
0.01
0.00
0
200
400
600
800
1000
1200
Time

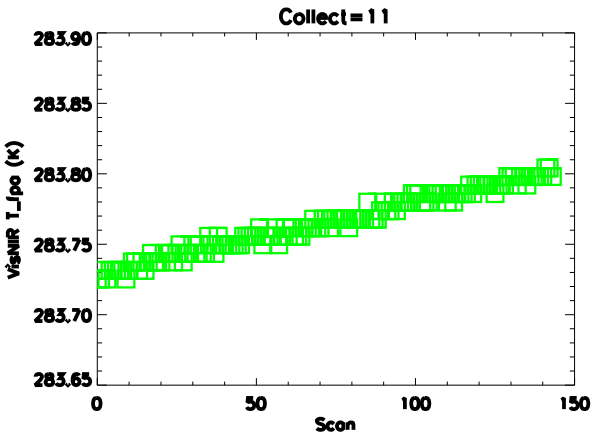

OBC thermistor standard deviation vs Collect
Standard deviation
0.05
0.04
0.03
0.02
0.01
0.00
0
5
10
15
Collect

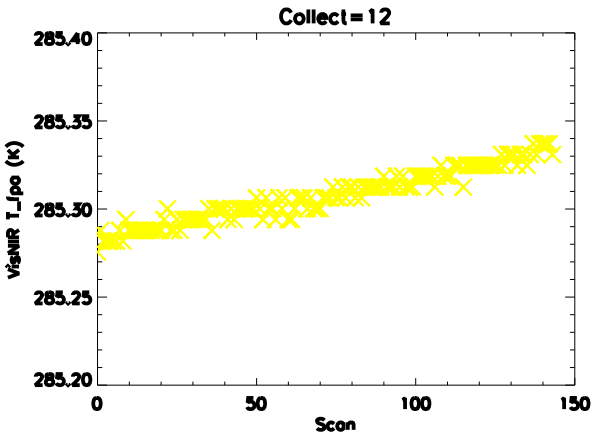

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
290
280
270
260
250
240
230
−200
0
200
400
600
800
1000
1200
Time (min)

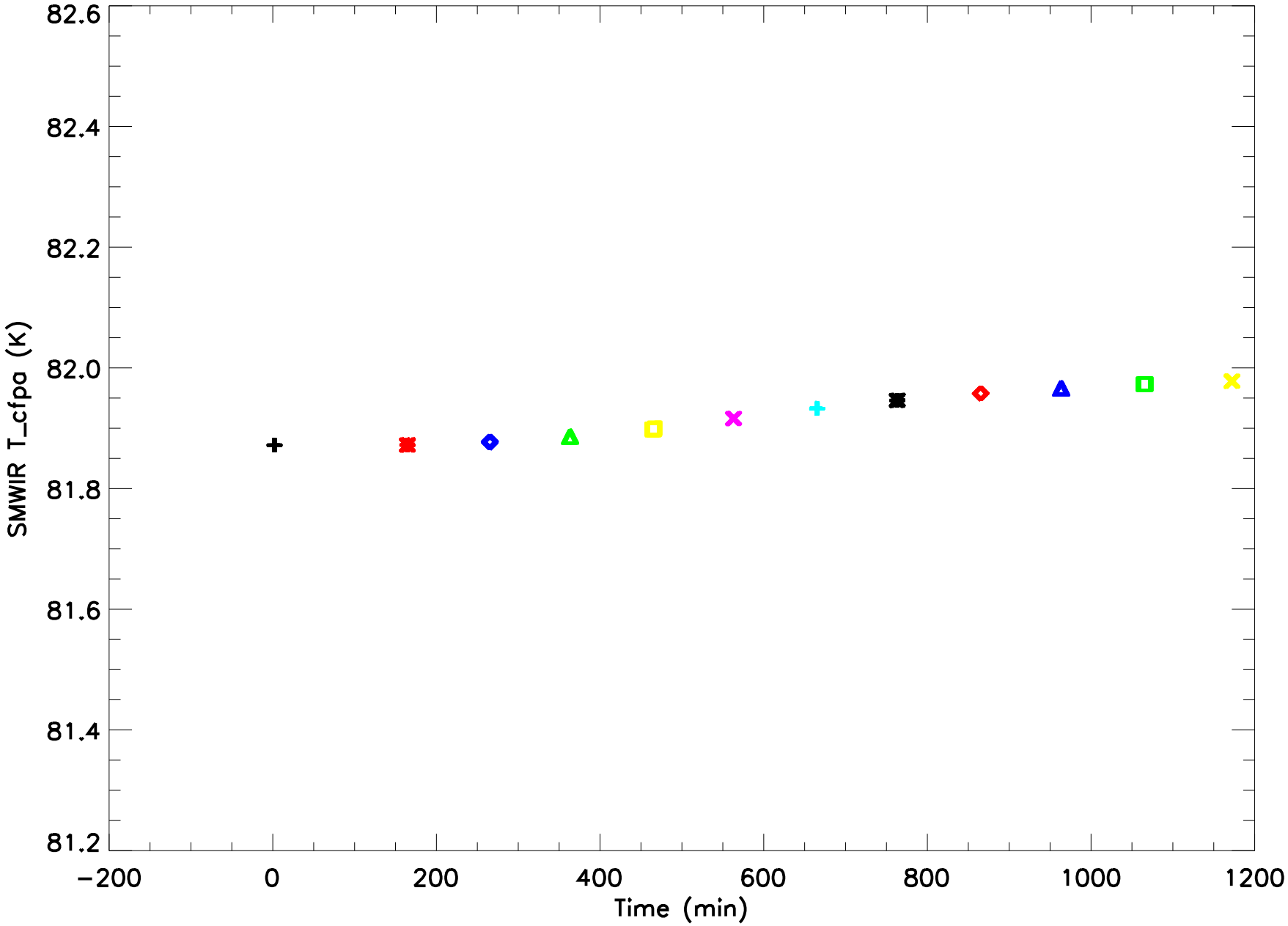

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_lpo (K)
Scan
0
50
100
150
238.62
238.60
238.58
238.56
238.54
238.52
238.50
238.48
239.35
239.30
239.25
239.20
239.15
242.05
242.00
241.95
241.90
241.85
241.80
241.75
246.8
246.7
246.6
246.5
246.4
253.9
253.8
253.7
253.6
253.5
253.4
262.3
262.2
262.1
262.0
261.9
261.8
261.7
269.8
269.7
269.6
269.5
269.4
269.3
275.0
274.9
274.8
274.7
274.6
279.00
278.95
278.90
278.85
278.80
278.75
278.70

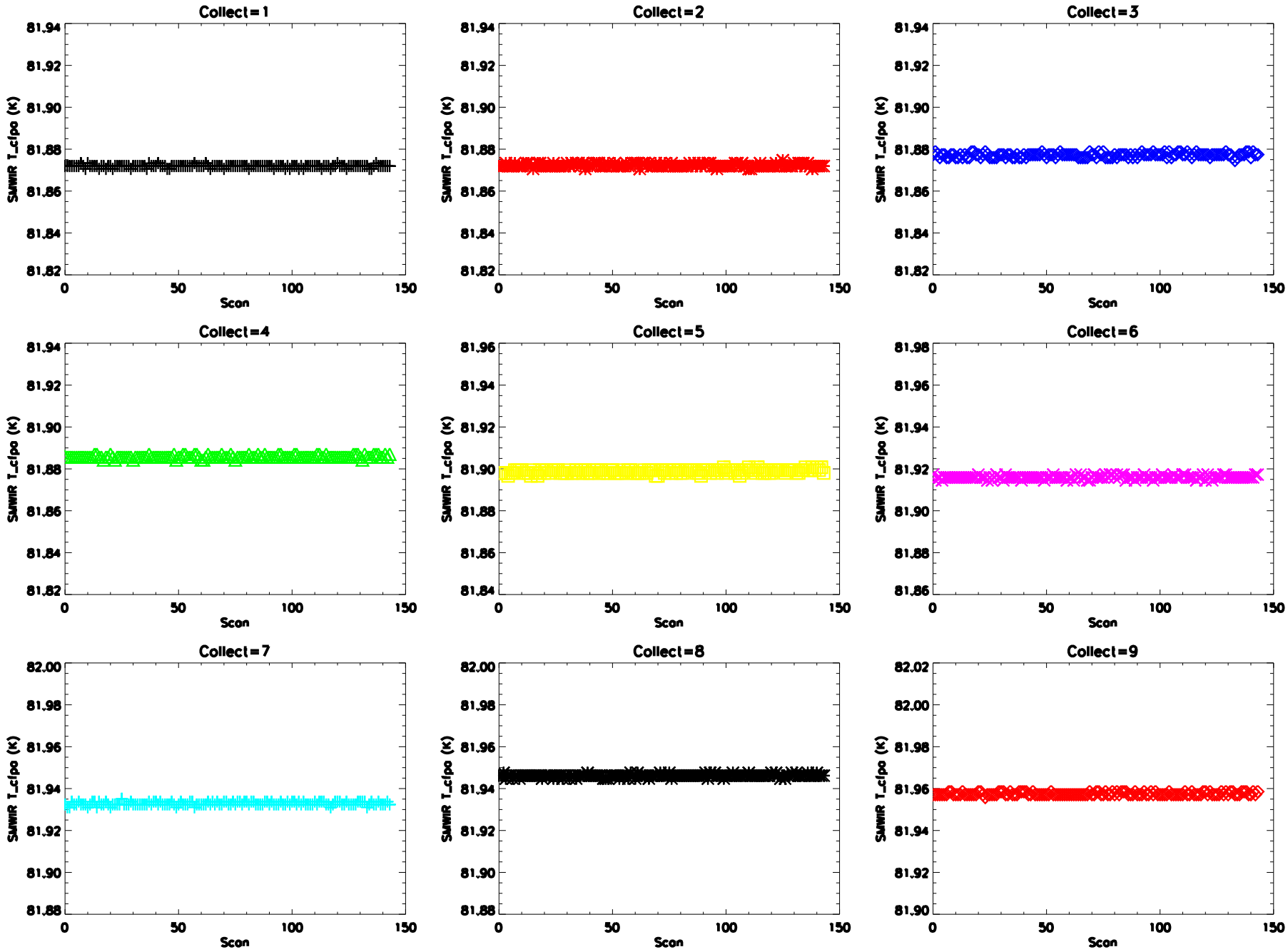
VisNIR T_fpa vs Scan



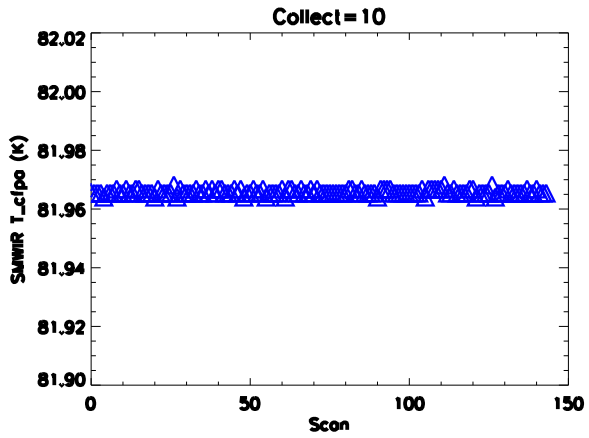


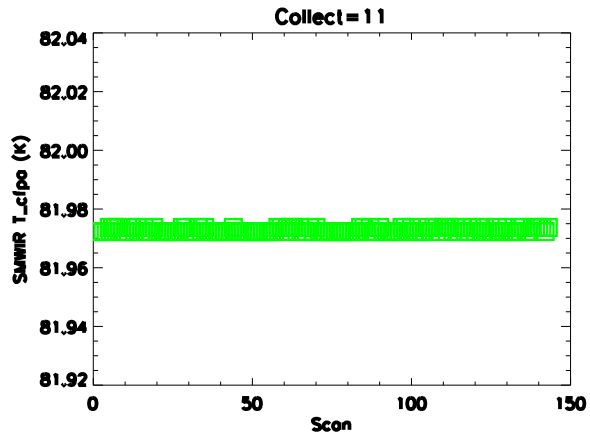


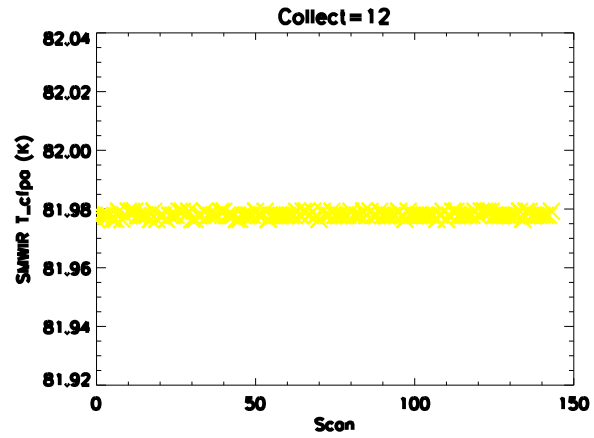

SMWIR T_cfpa vs Time
SMWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
81.2
−200
0
200
400
600
800
1000
1200
Time (min)

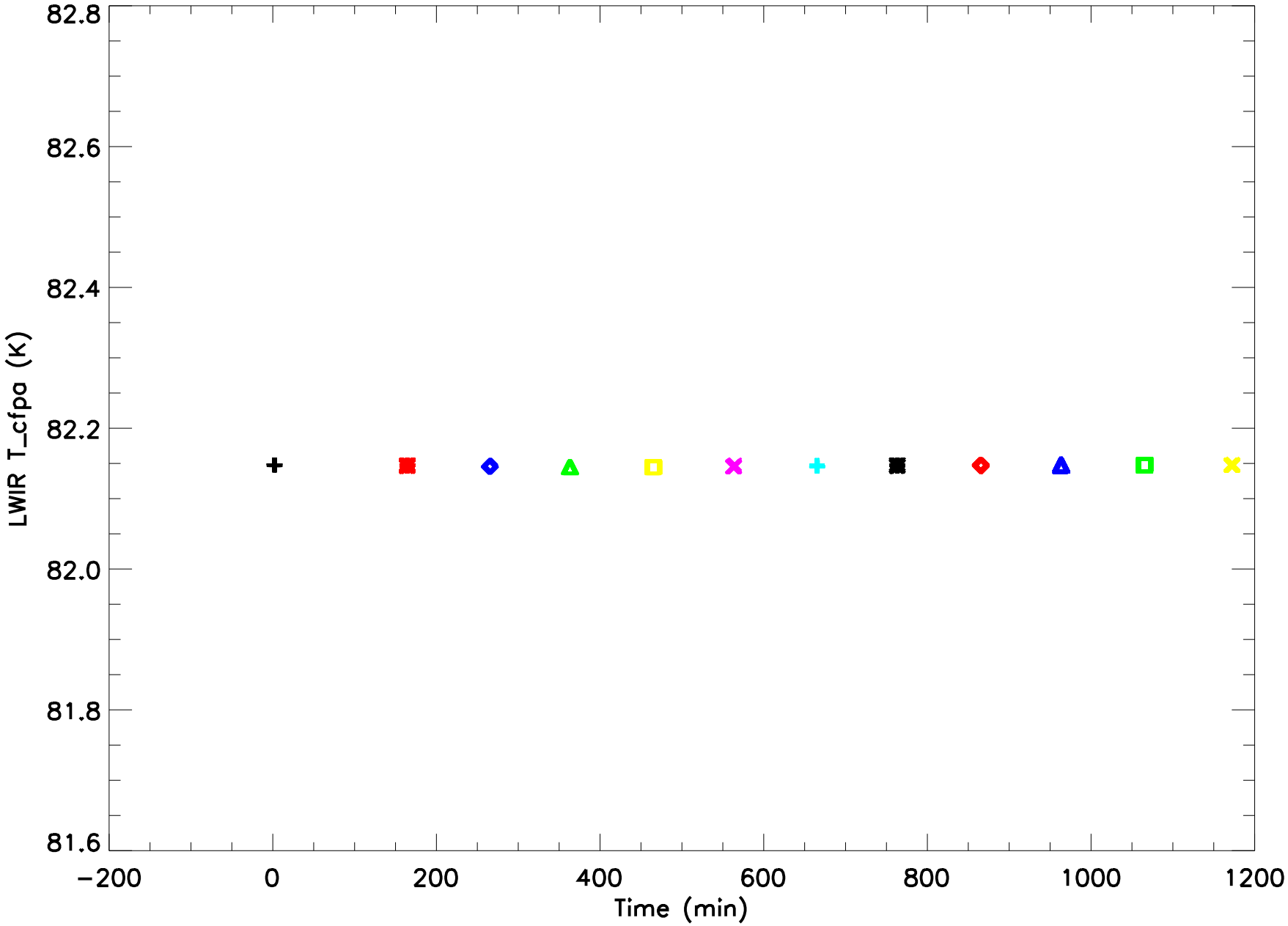

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan

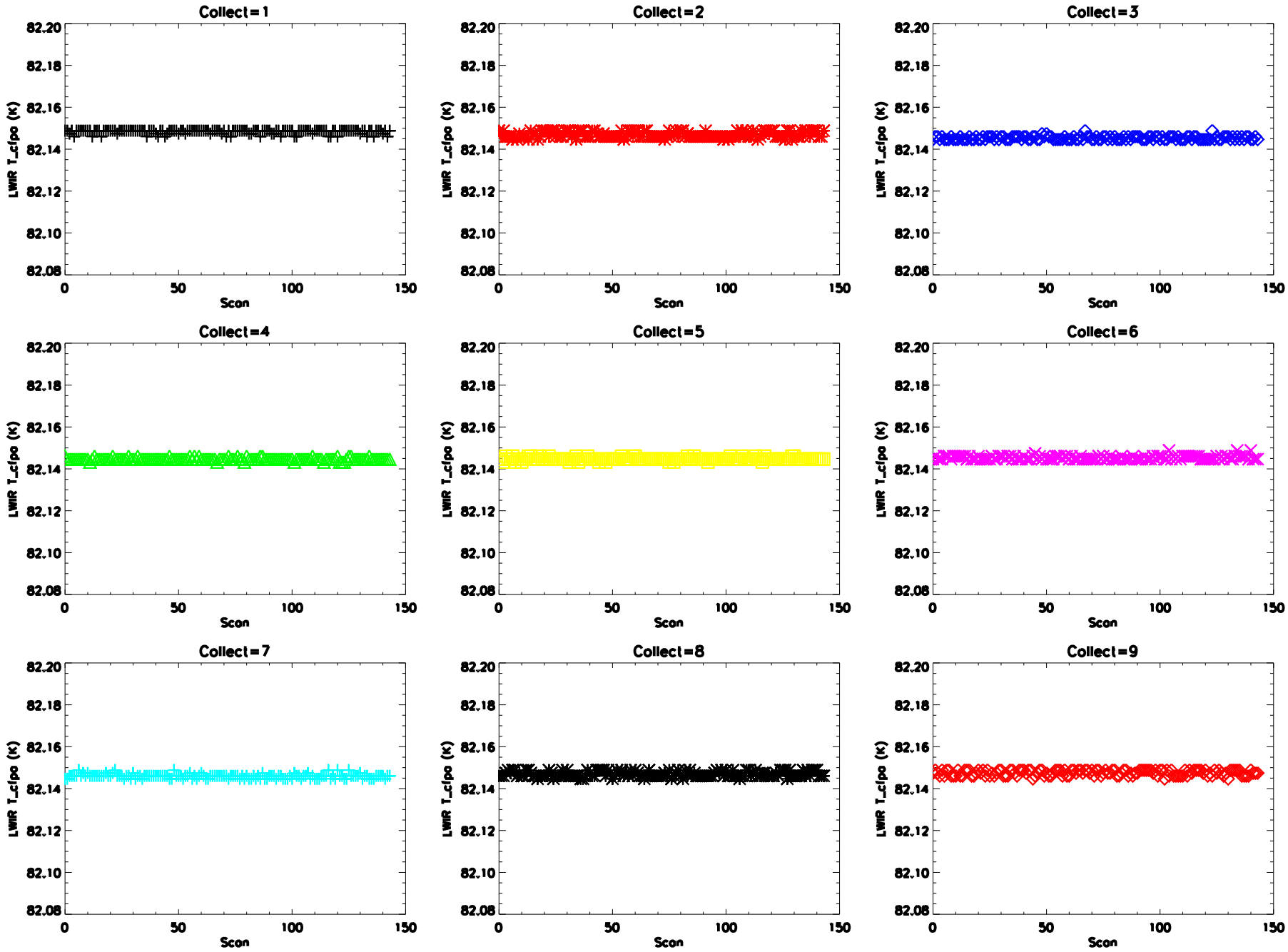
SMWIR T_cfpa vs Scan



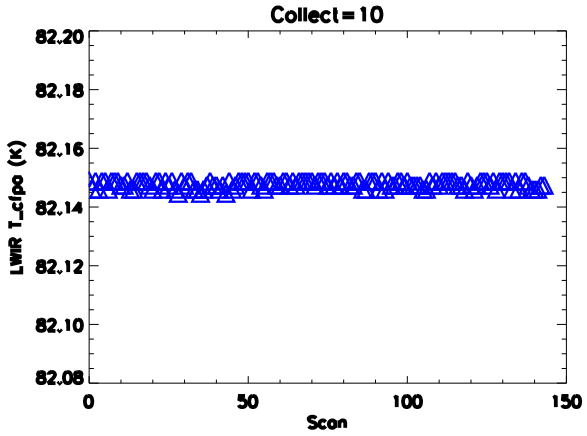


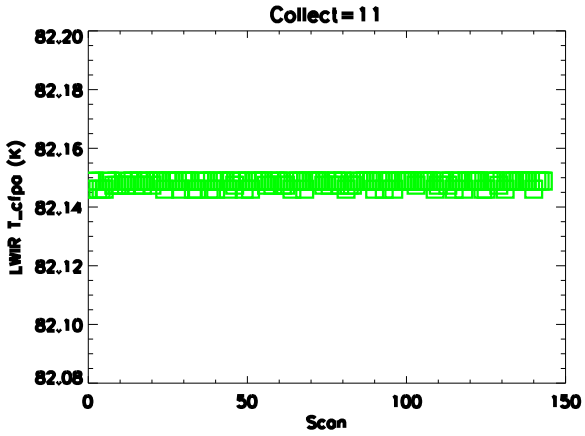


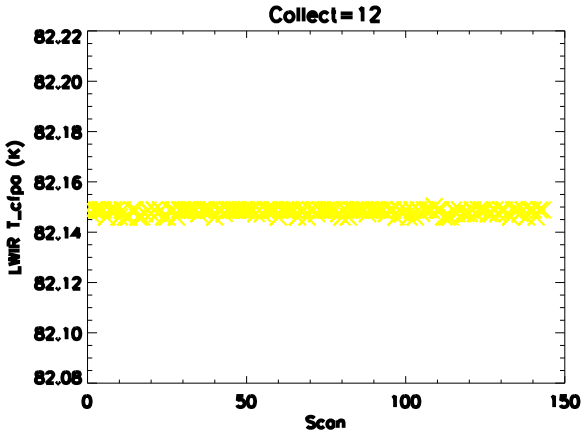

LWIR T_cfpa vs Time
LWIR T_cfpa (K)
82.8
82.6
82.4
82.2
82.0
81.8
81.6
−200
0
200
400
600
800
1000
1200
Time (min)

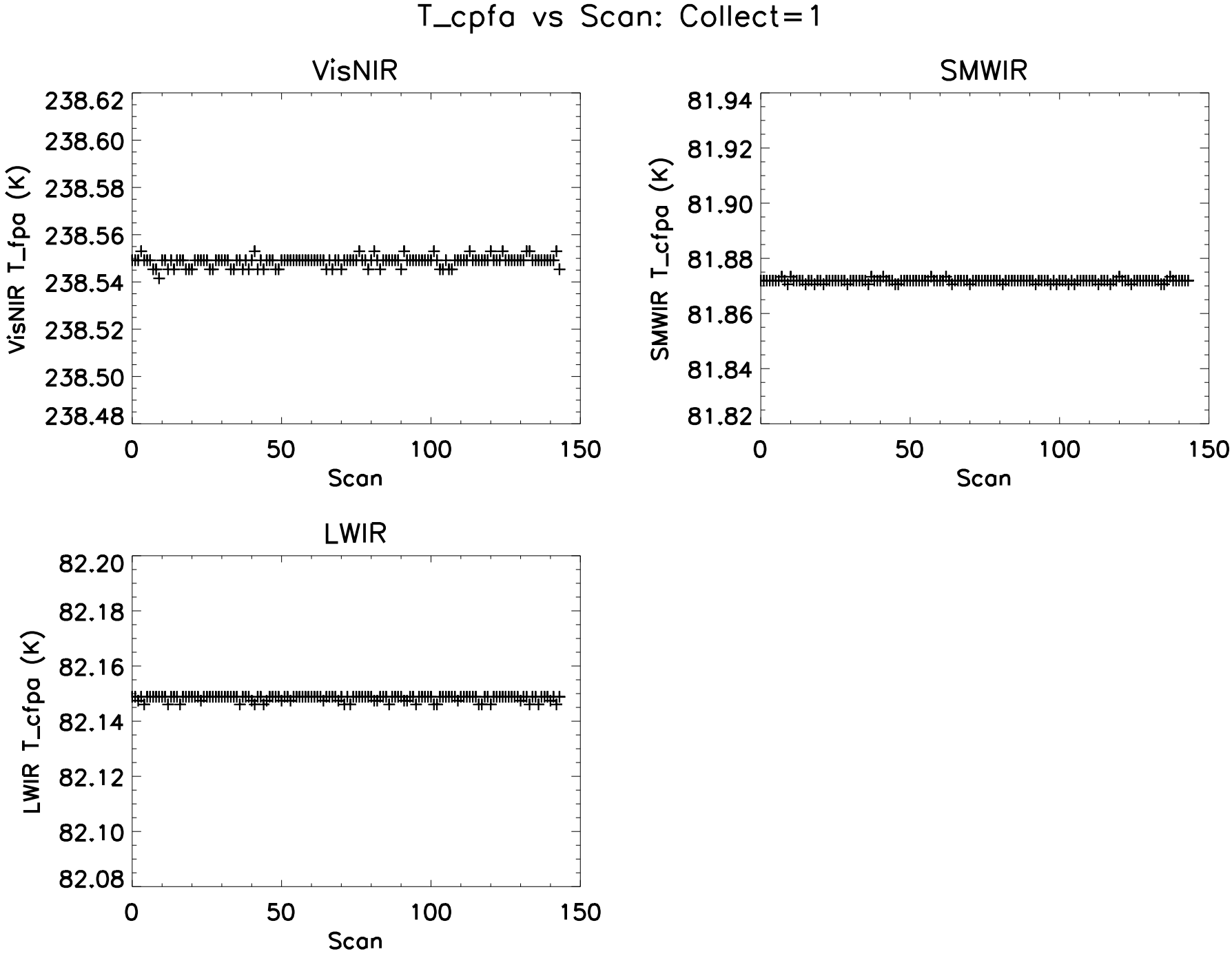

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_cfpa (K)
Scan
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150

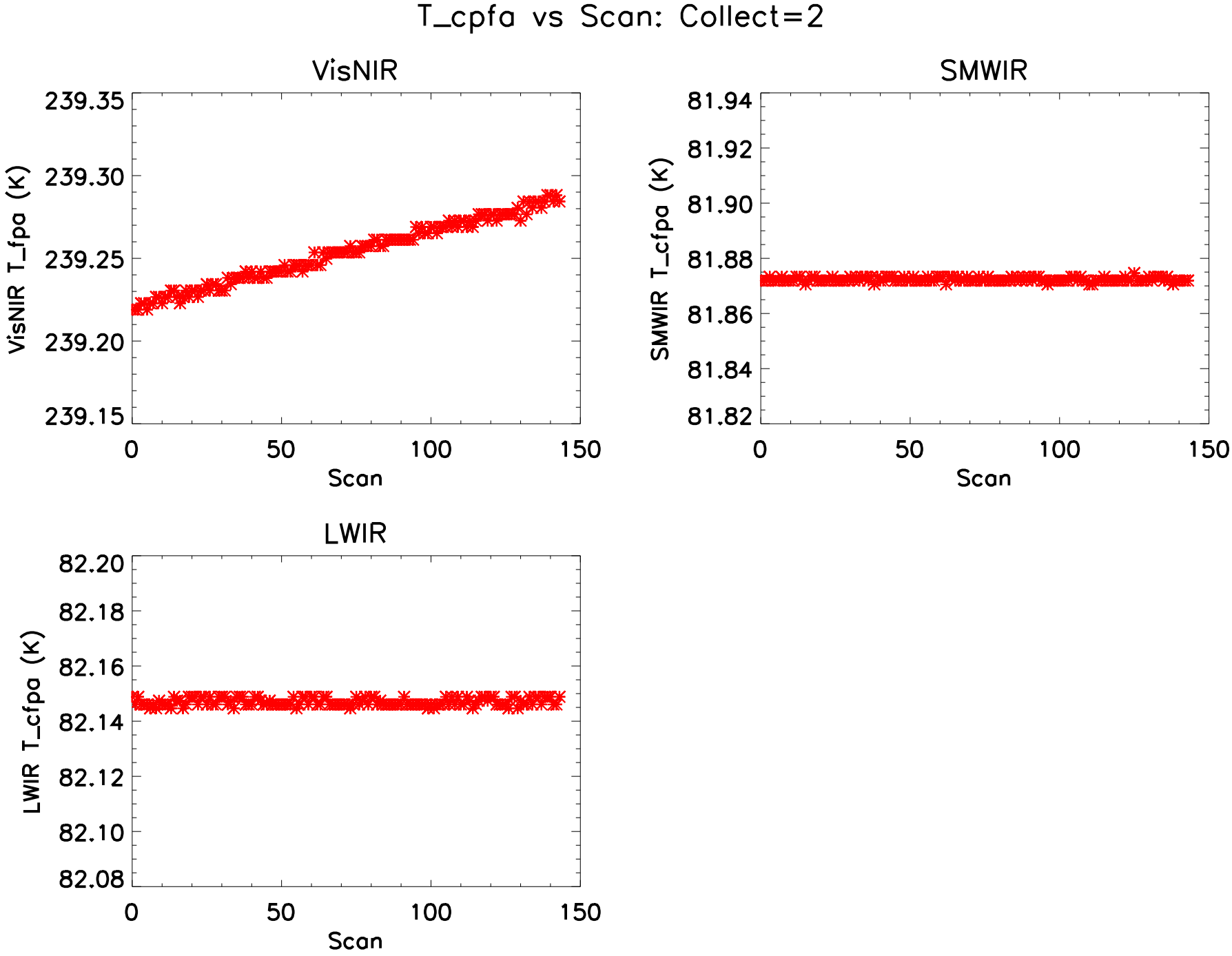
LWIR T_cfpa vs Scan

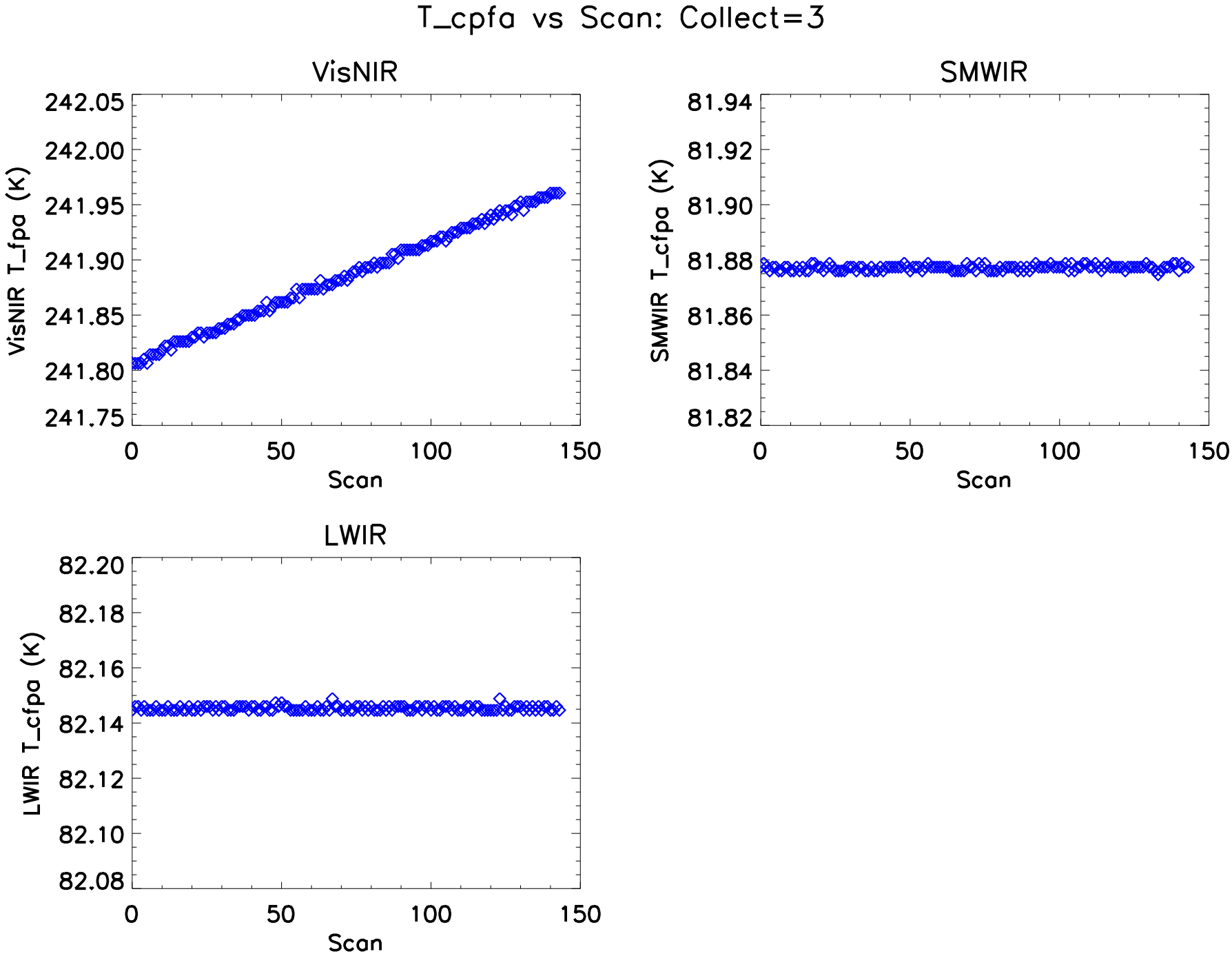


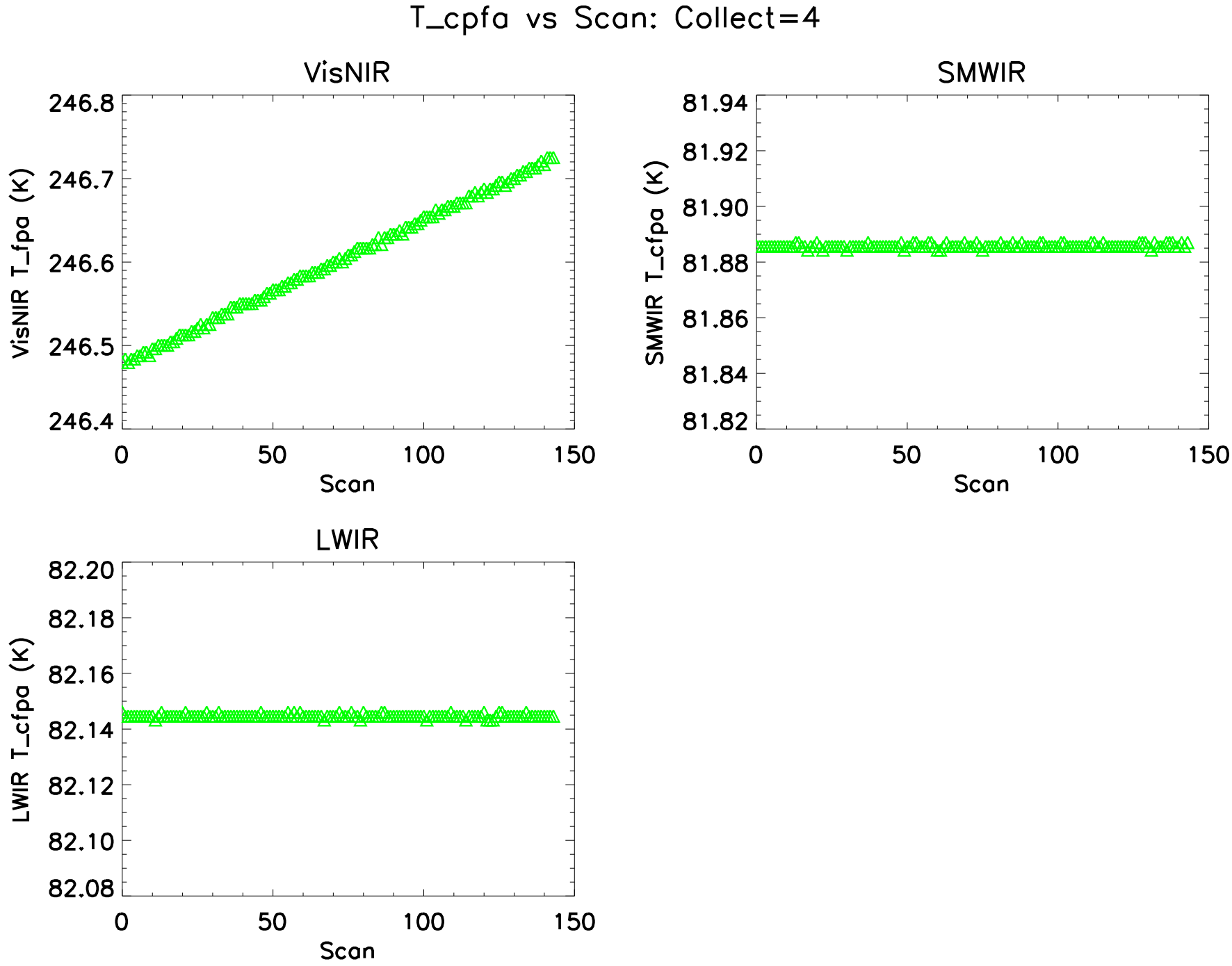


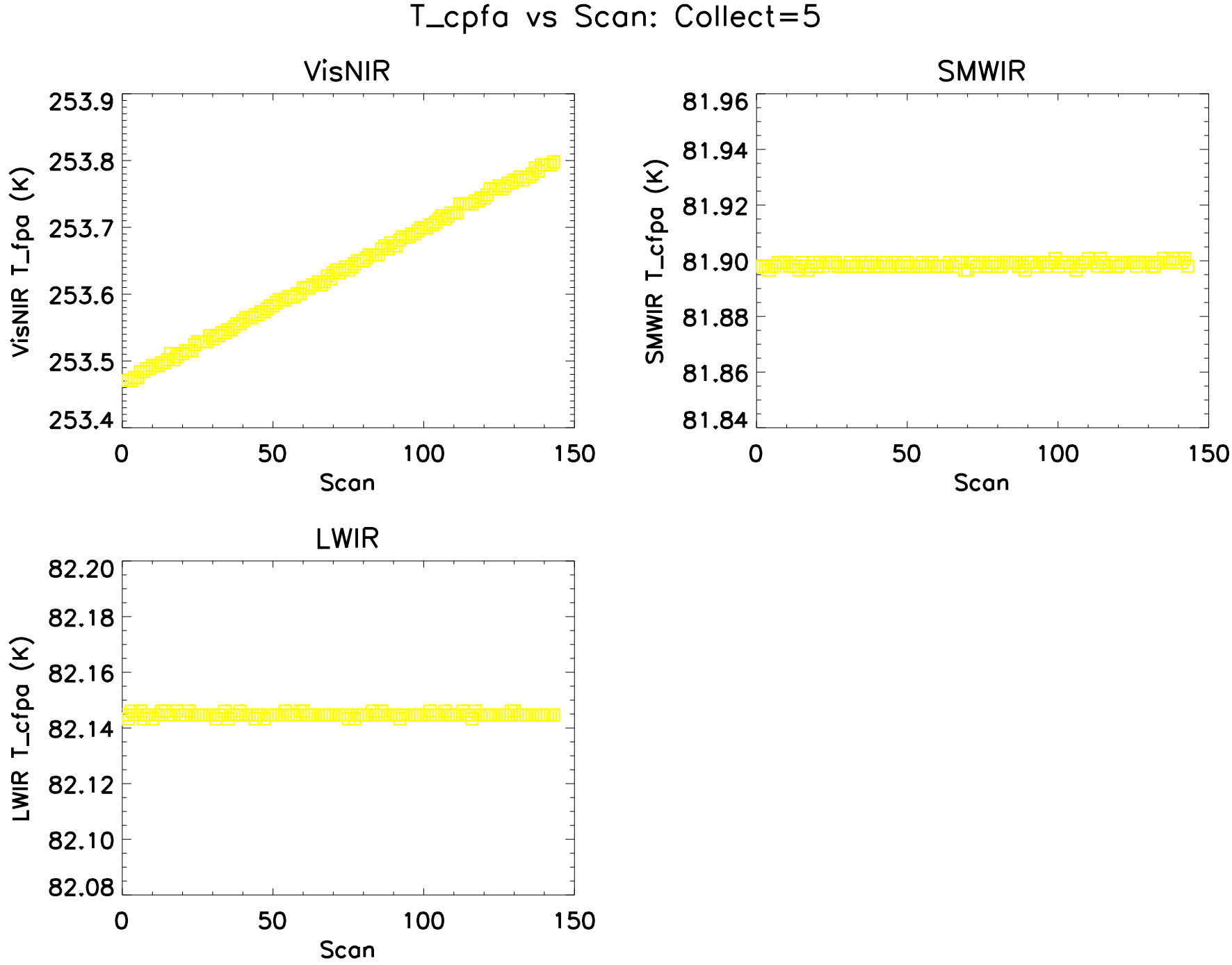


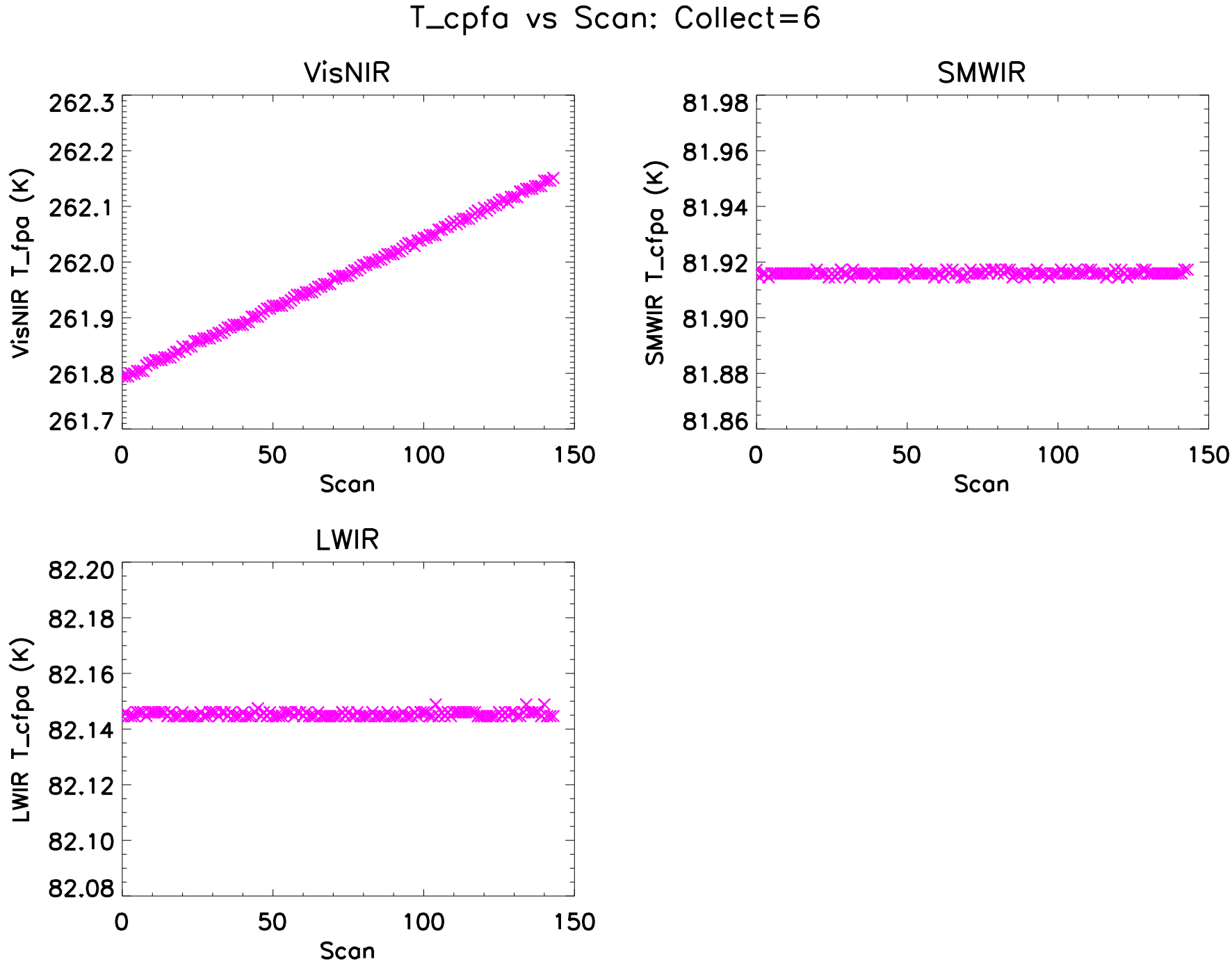

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
238.62
238.60
238.58
238.56
238.54
238.52
238.50
238.48
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

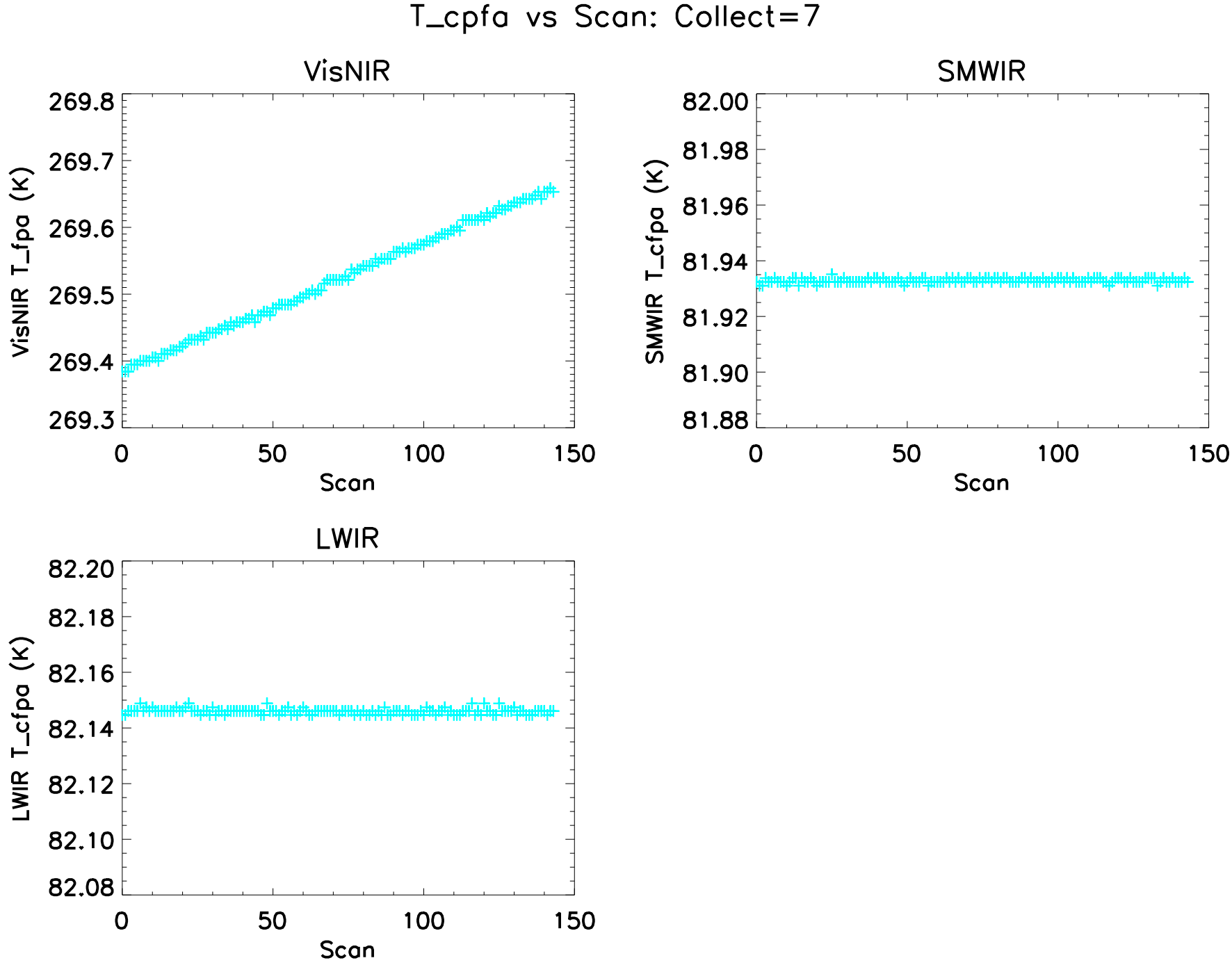

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
239.35
239.30
239.25
239.20
239.15
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

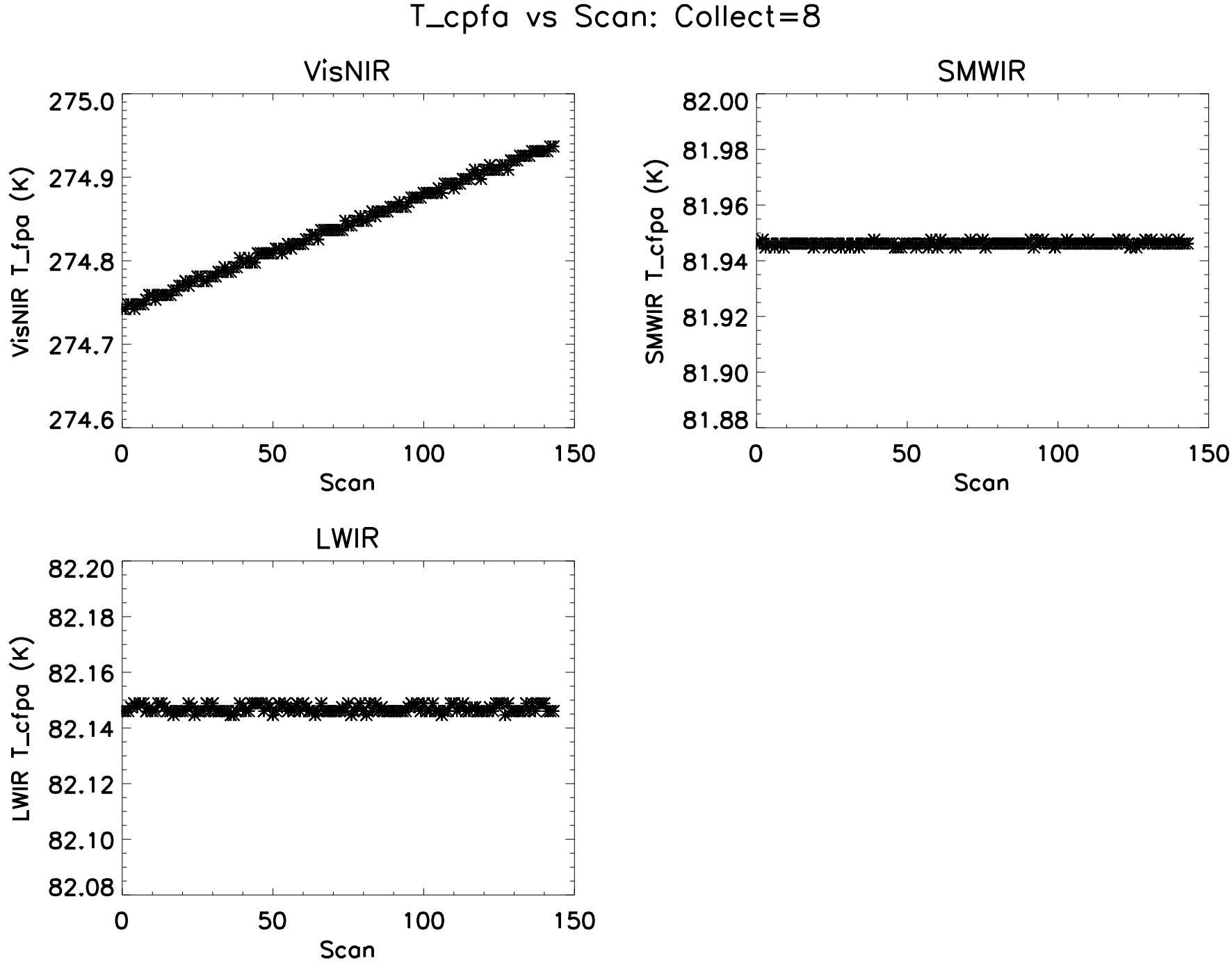

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
242.05
242.00
241.95
241.90
241.85
241.80
241.75
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

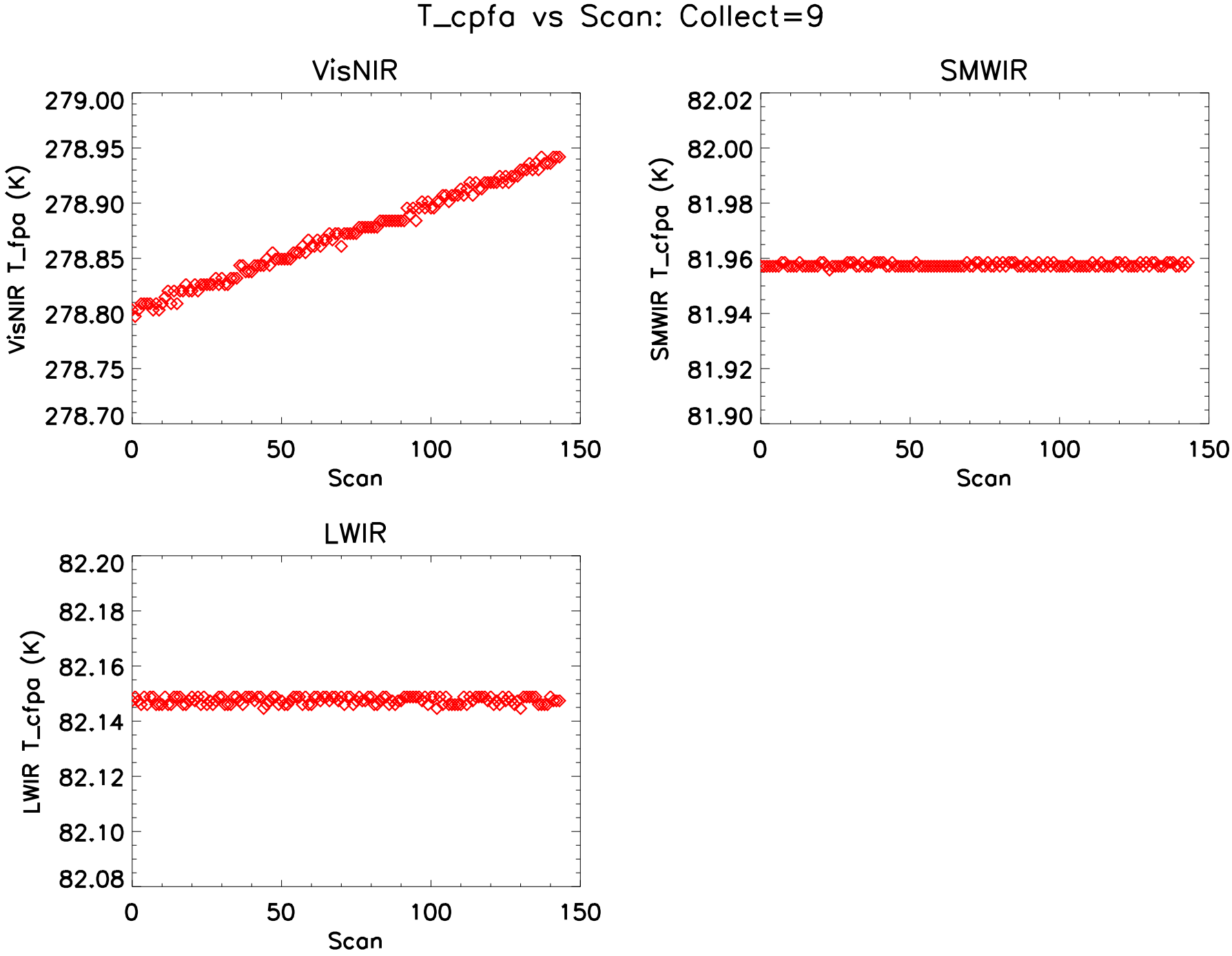

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
246.8
246.7
246.6
246.5
246.4
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

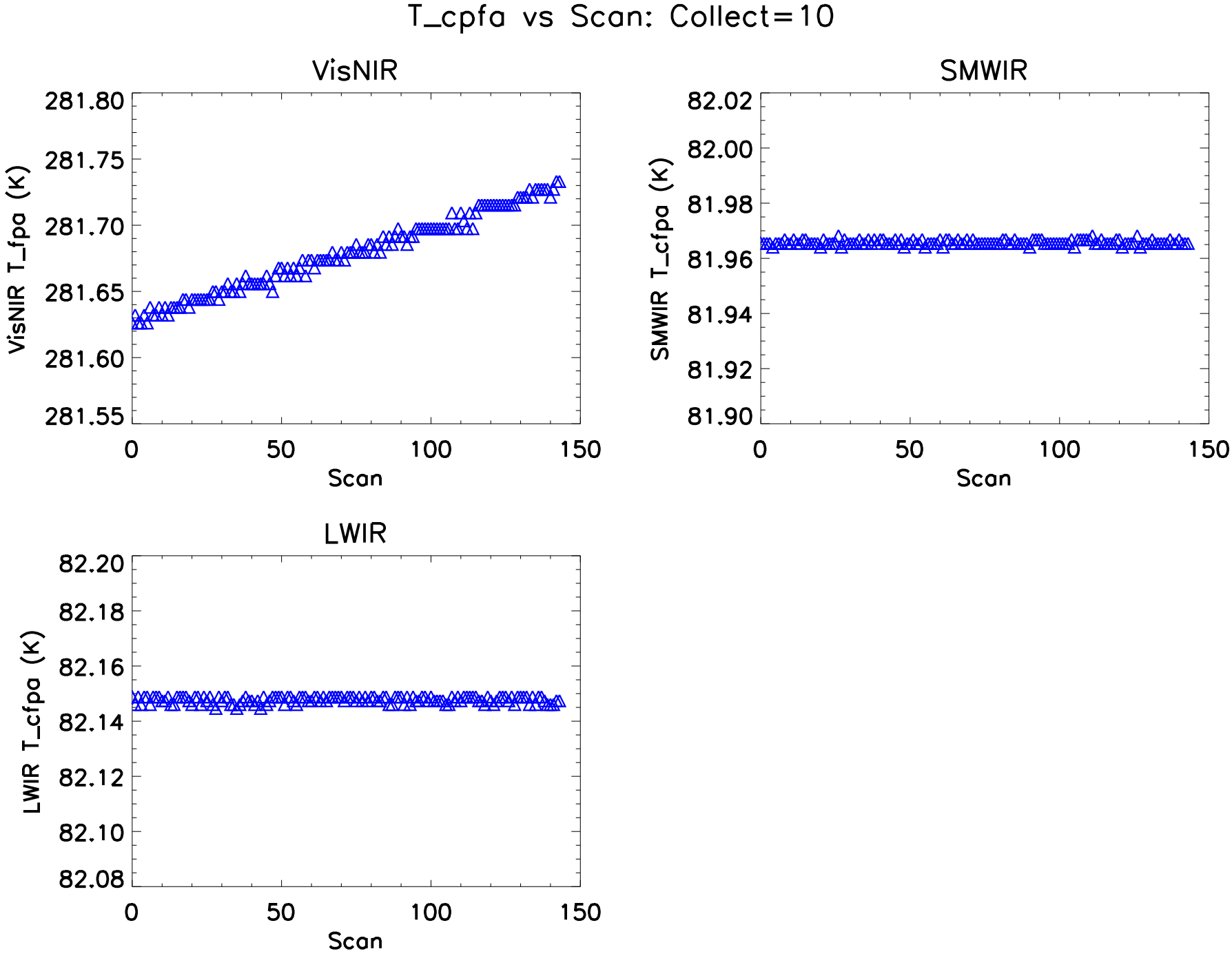

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
253.9
253.8
253.7
253.6
253.5
253.4
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.96
81.94
81.92
81.90
81.88
81.86
81.84
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

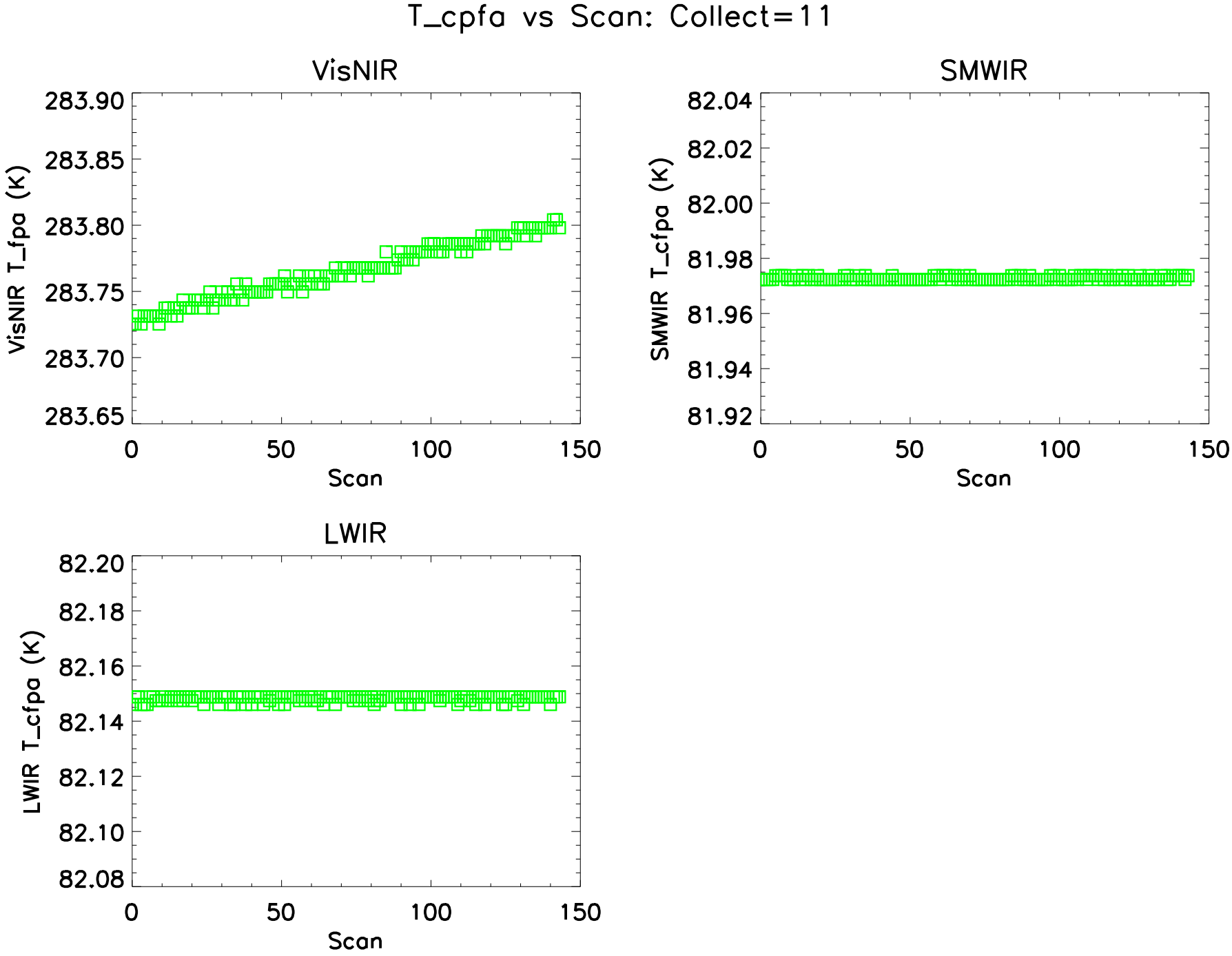

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
262.3
262.2
262.1
262.0
261.9
261.8
261.7
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

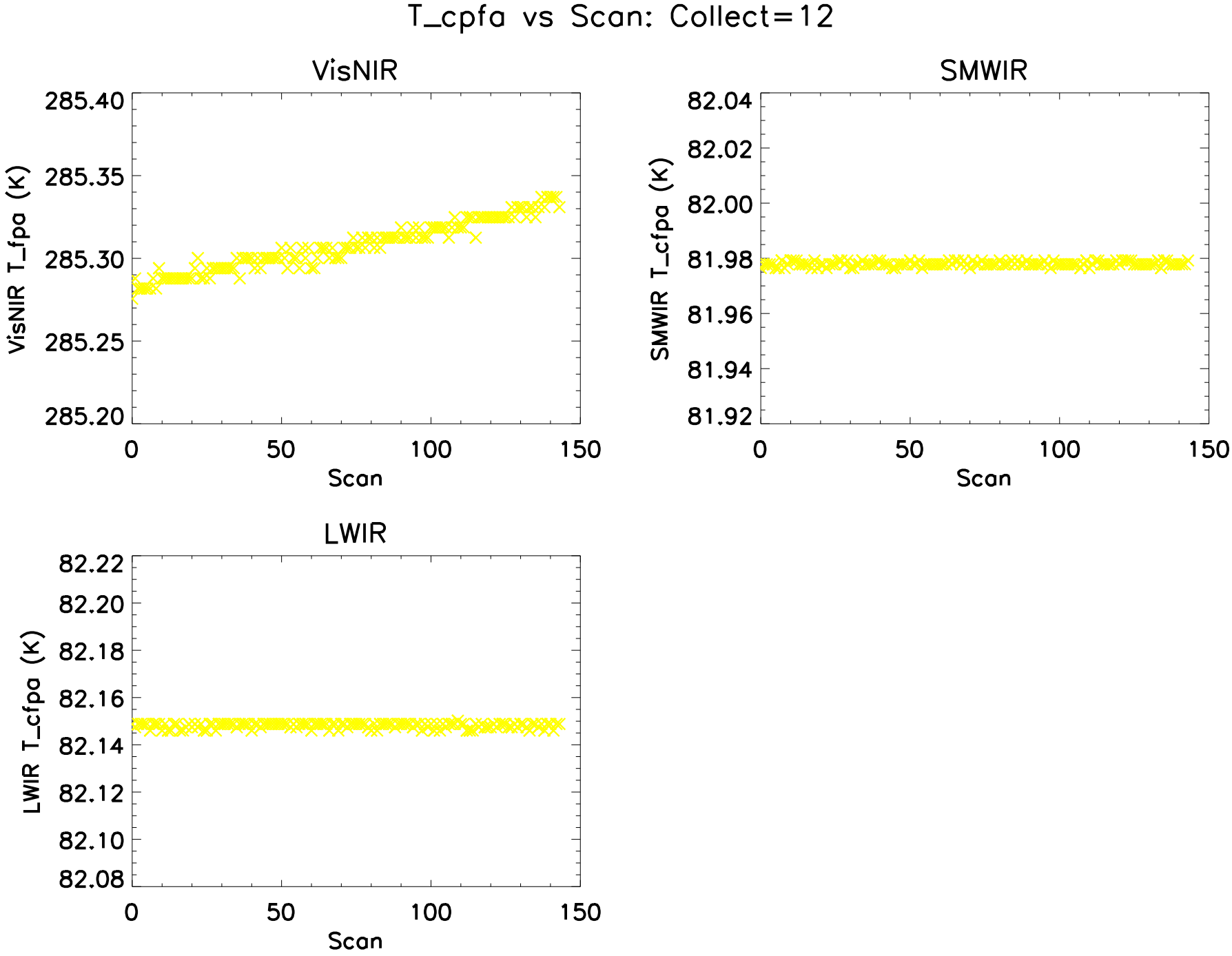

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
269.8
269.7
269.6
269.5
269.4
269.3
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.00
81.98
81.96
81.94
81.92
81.90
81.88
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

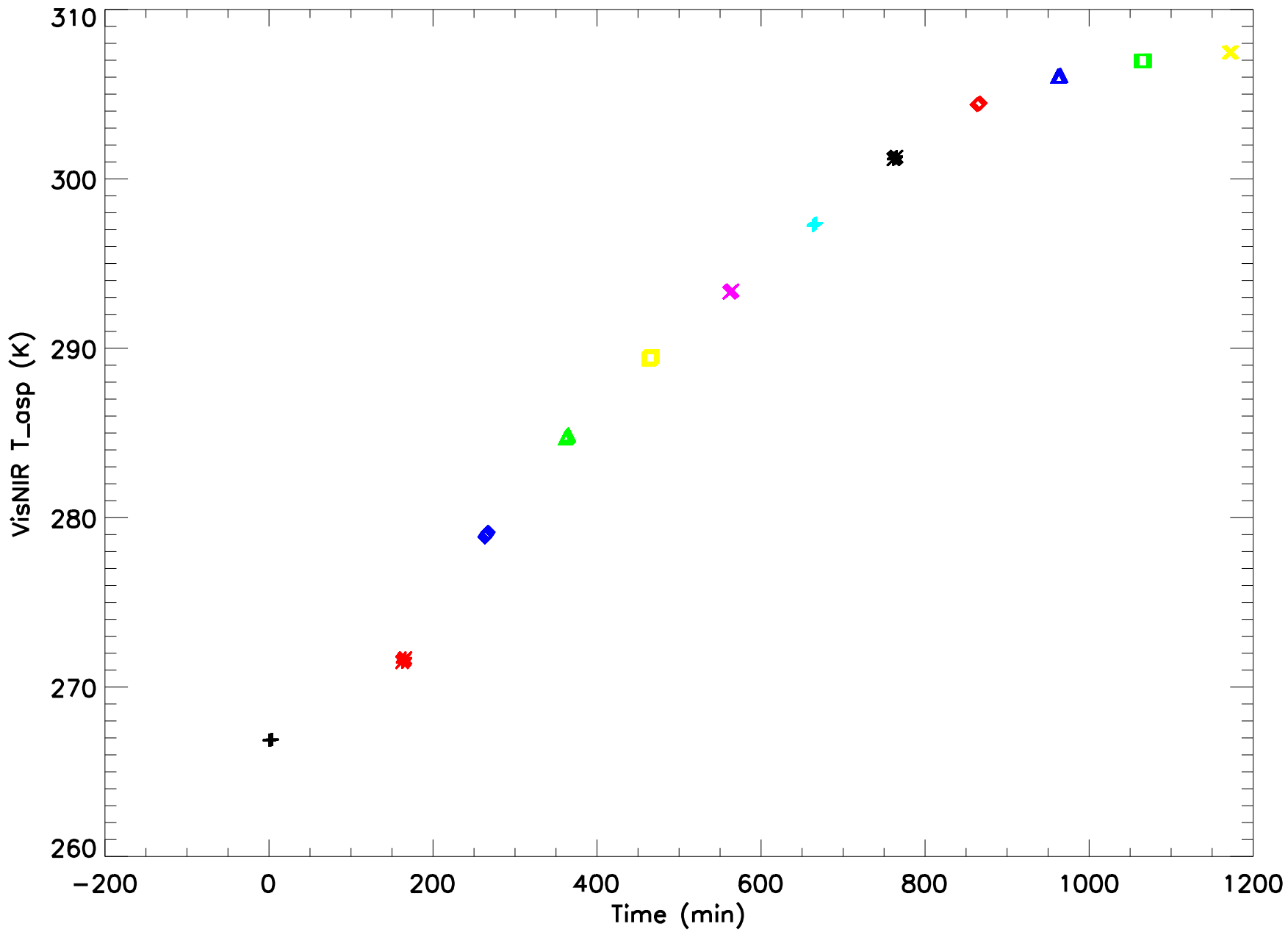

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
275.0
274.9
274.8
274.7
274.6
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.00
81.98
81.96
81.94
81.92
81.90
81.88
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

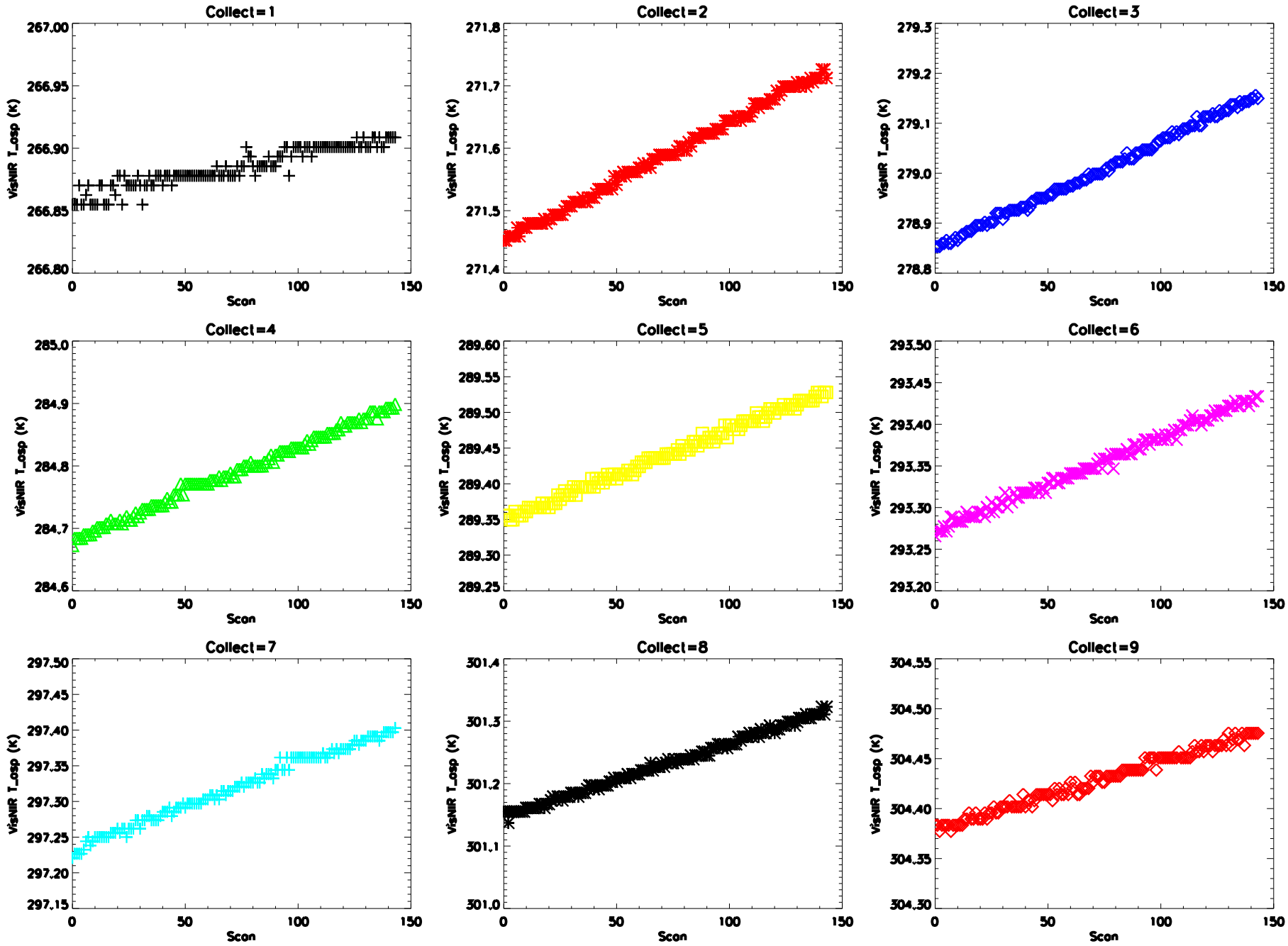

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
279.00
278.95
278.90
278.85
278.80
278.75
278.70
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.02
82.00
81.98
81.96
81.94
81.92
81.90
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan


T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
281.80
281.75
281.70
281.65
281.60
281.55
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.02
82.00
81.98
81.96
81.94
81.92
81.90
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

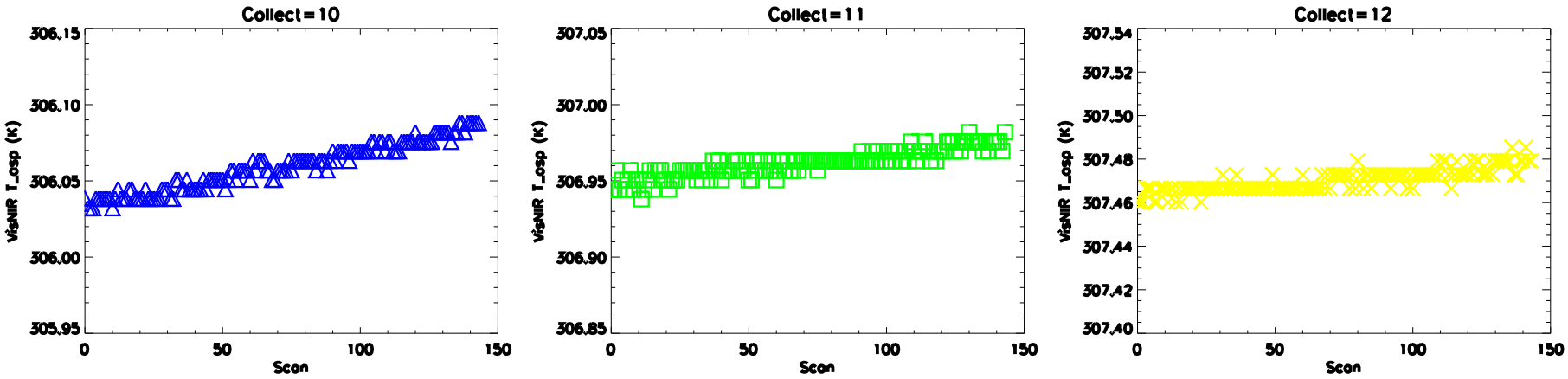

T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
283.90
283.85
283.80
283.75
283.70
283.65
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

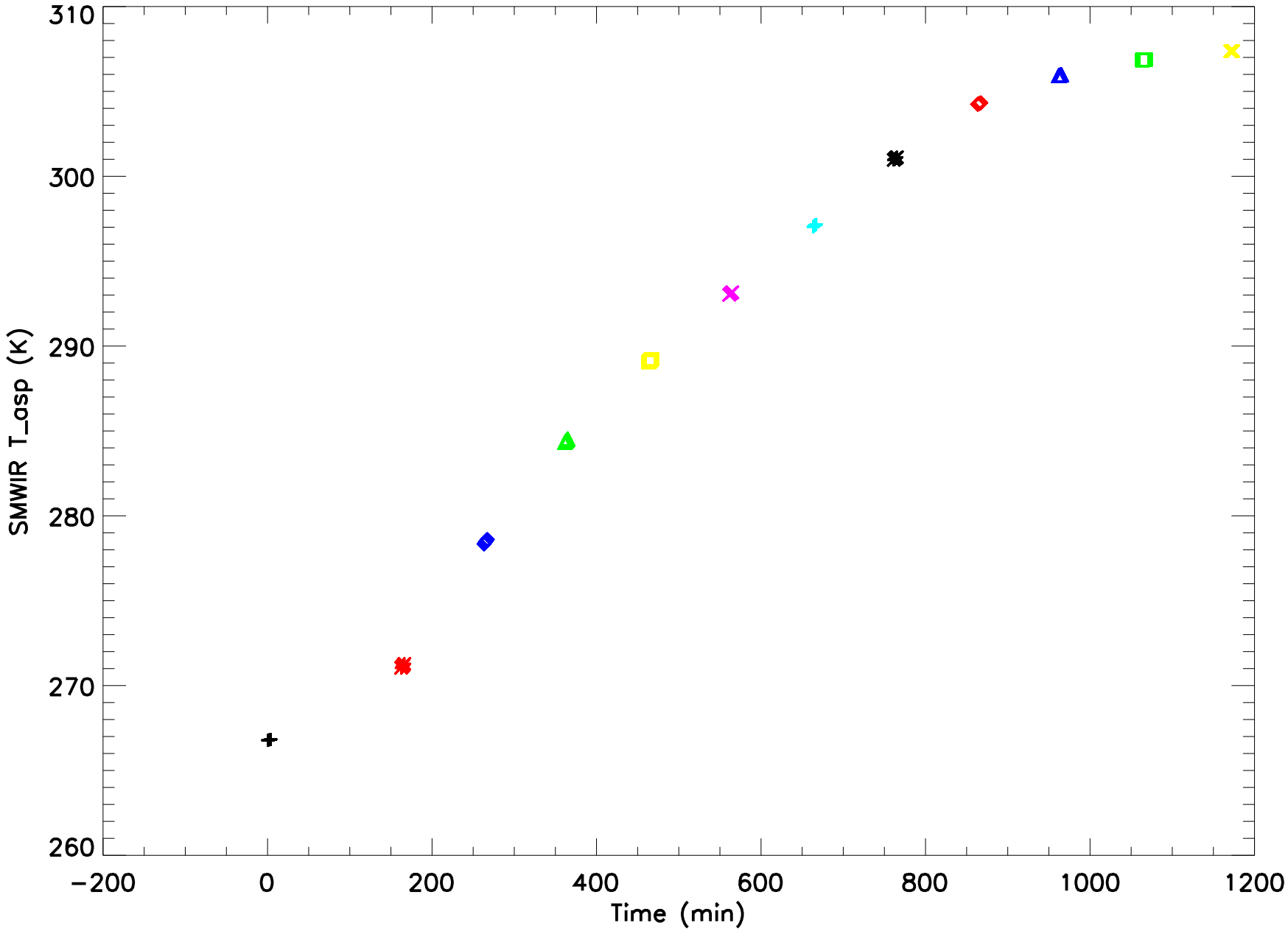

T_cpfa vs Scan: Collect=12
VisNIR
VisNIR T_fpa (K)
285.40
285.35
285.30
285.25
285.20
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.22
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

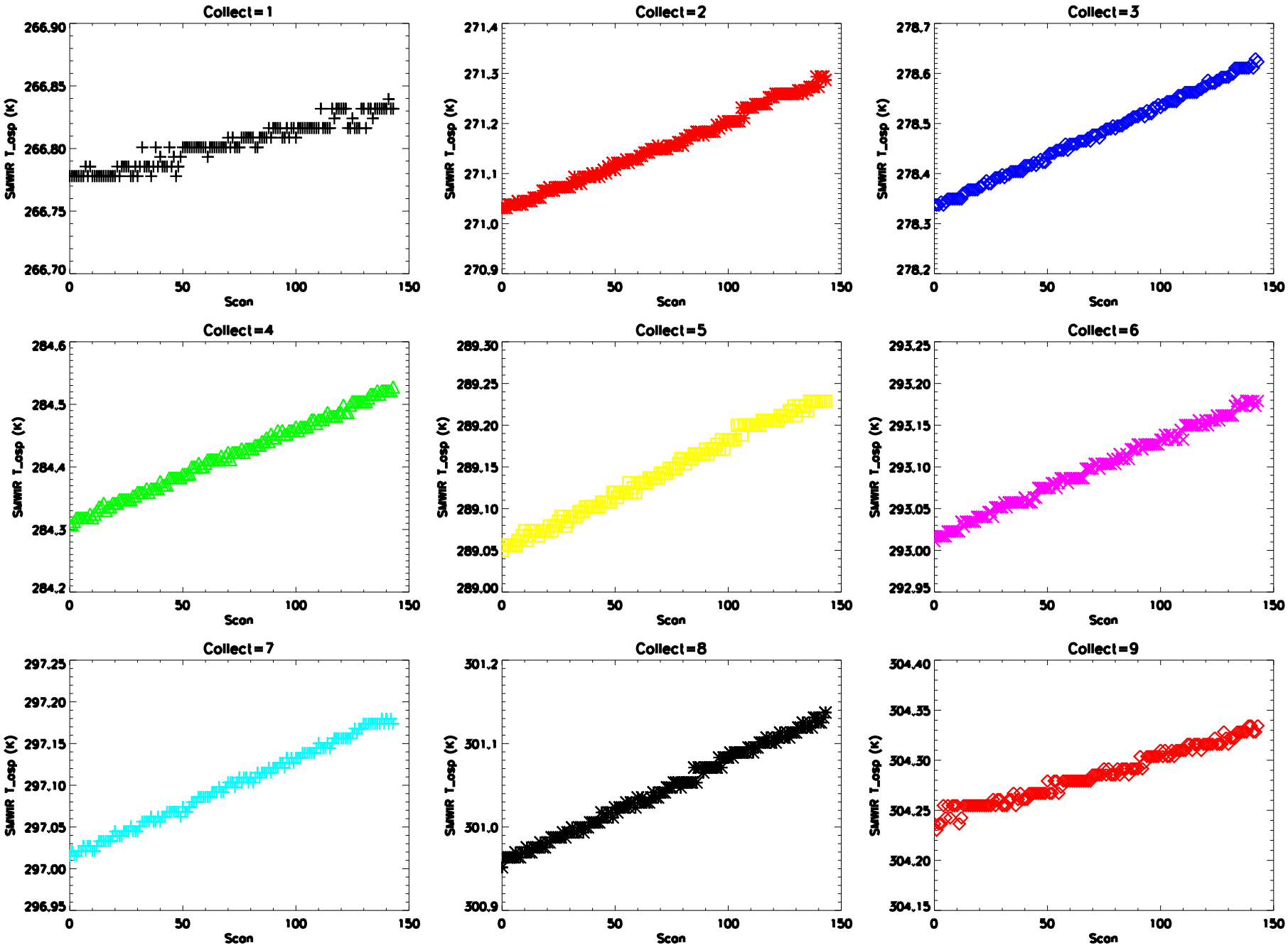

VisNIR T_asp vs Time
VisNIR T_asp (K)
310
300
290
280
270
260
−200
0
200
400
600
800
1000
1200
Time (min)


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

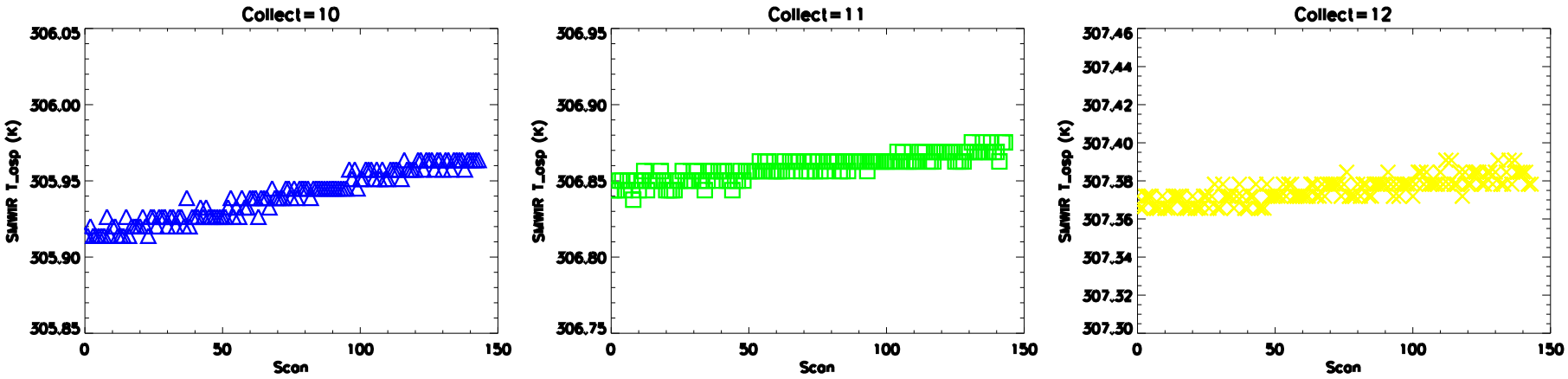
VisNIR T_asp vs Scan

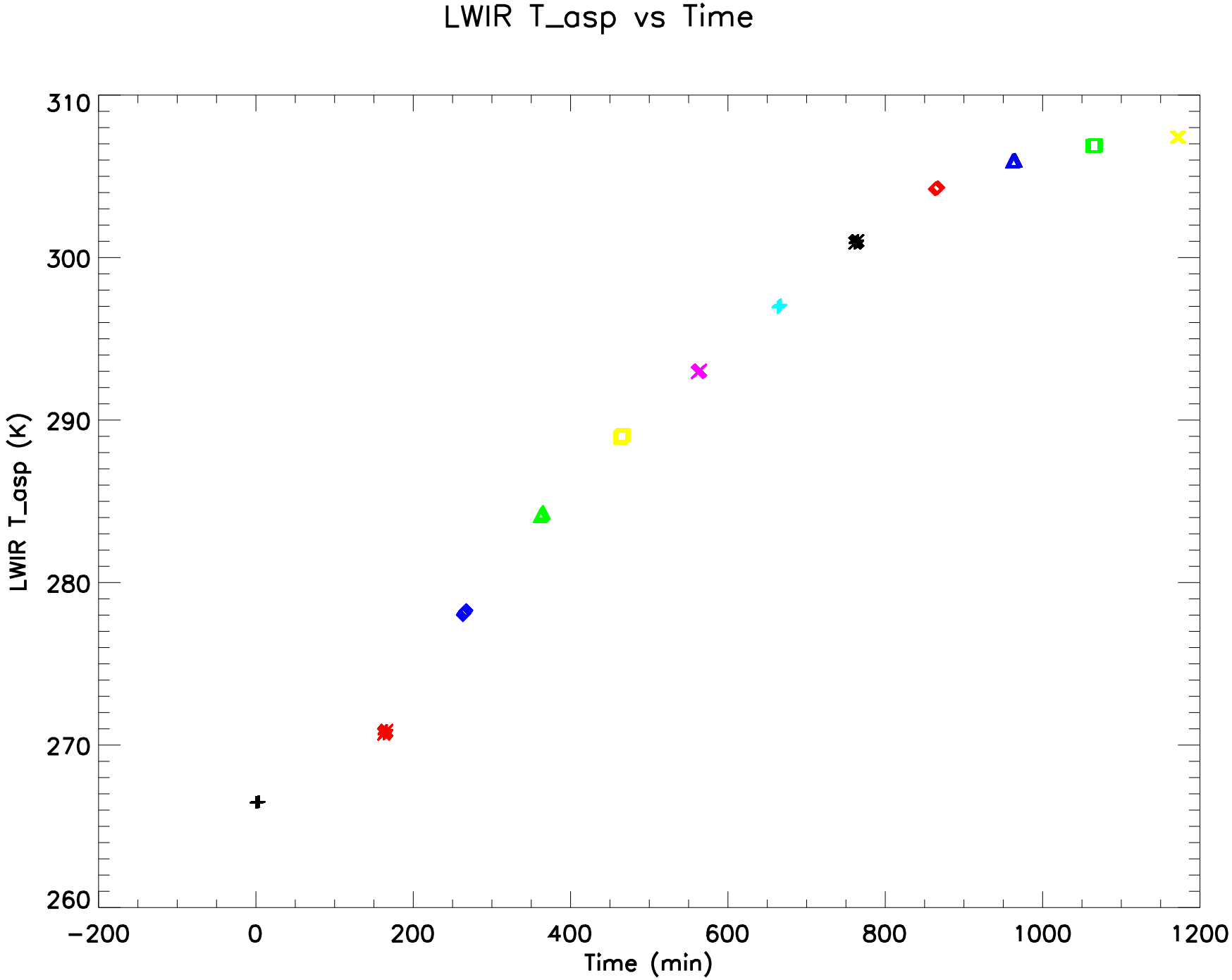


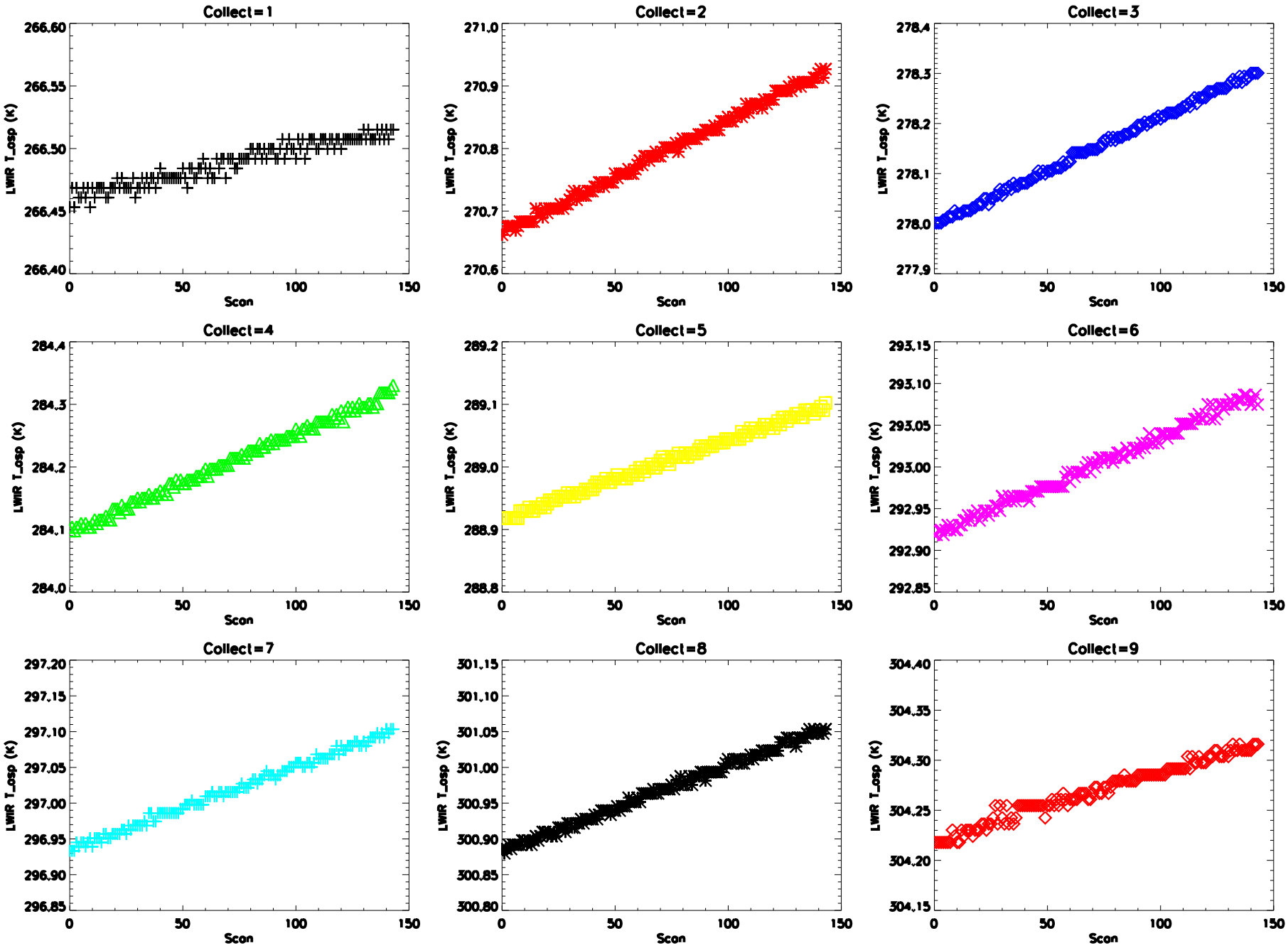

SMWIR T_asp vs Time
SMWIR T_asp (K)
310
300
290
280
270
260
−200
0
200
400
600
800
1000
1200
Time (min)


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

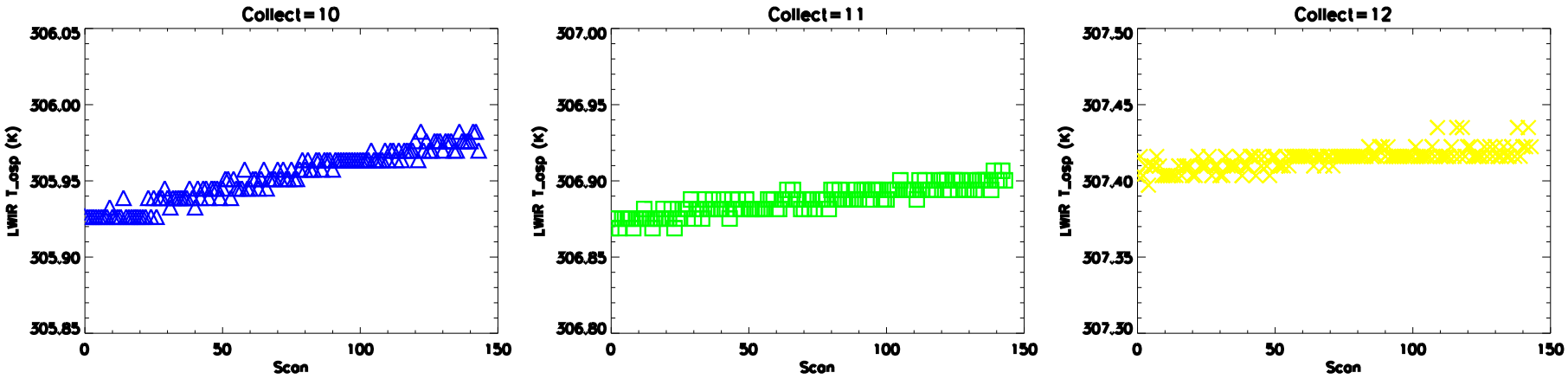
SMWIR T_asp vs Scan

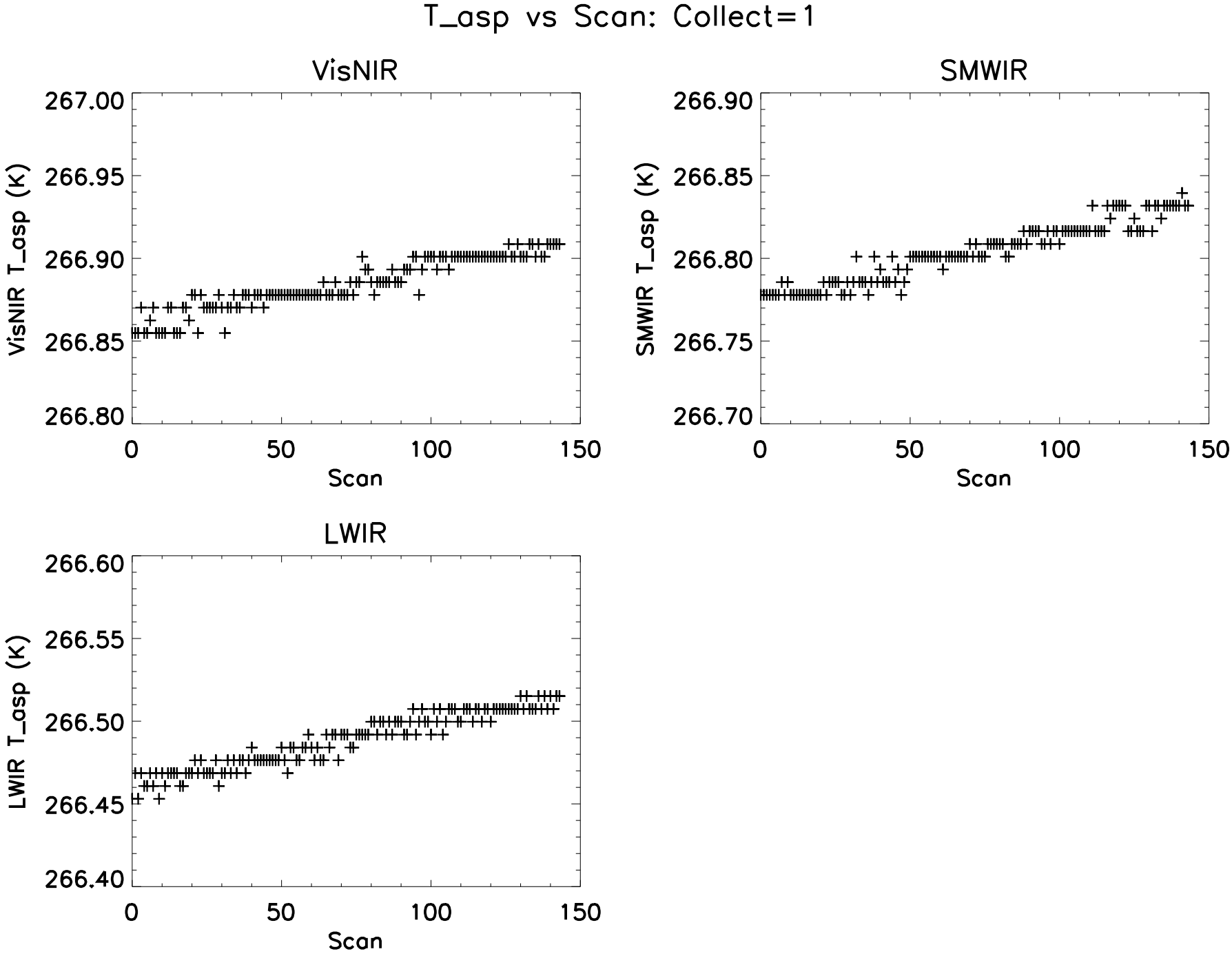


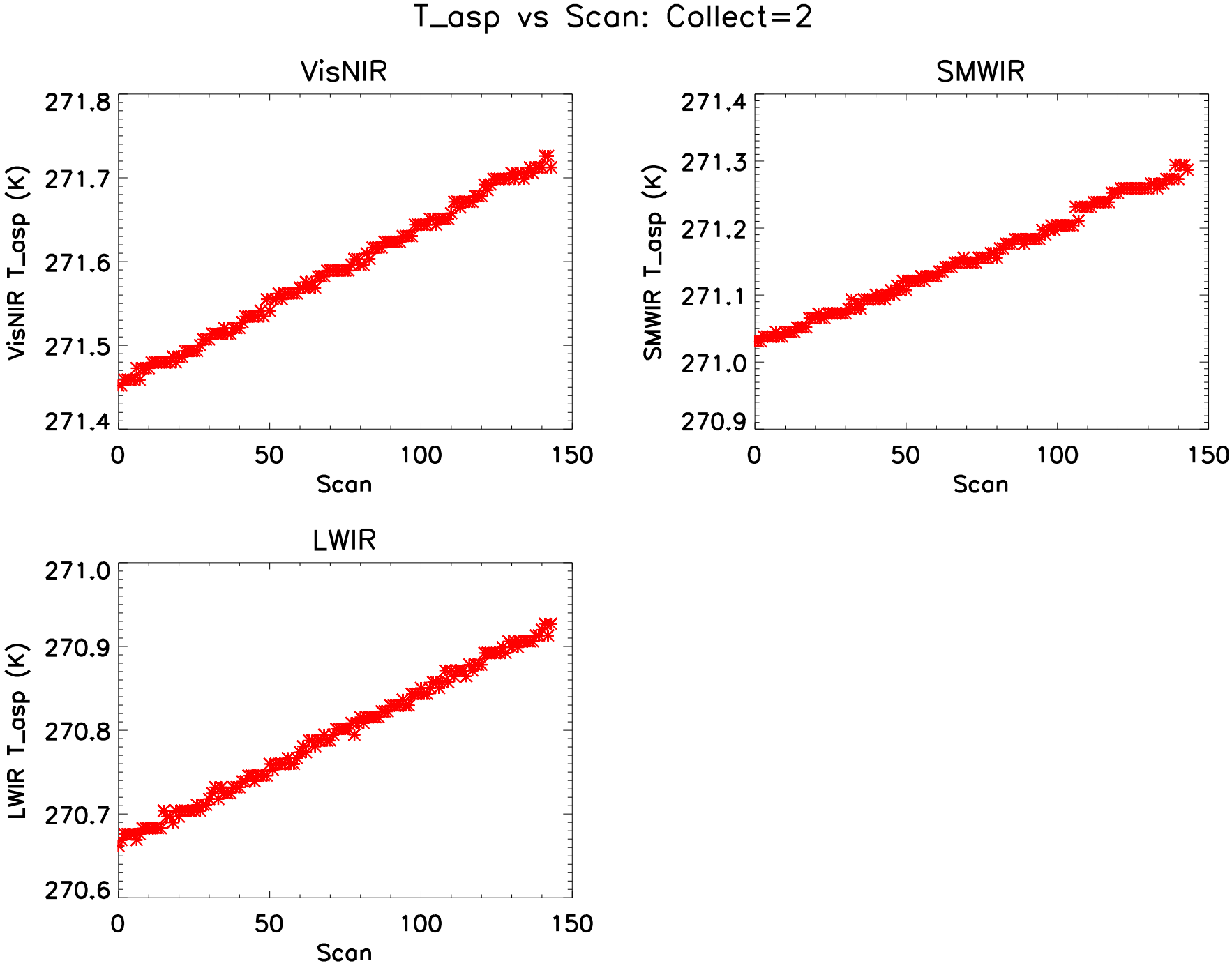

LWIR T_asp vs Time
LWIR T_asp (K)
310
300
290
280
270
260
−200
0
200
400
600
800
1000
1200
Time (min)

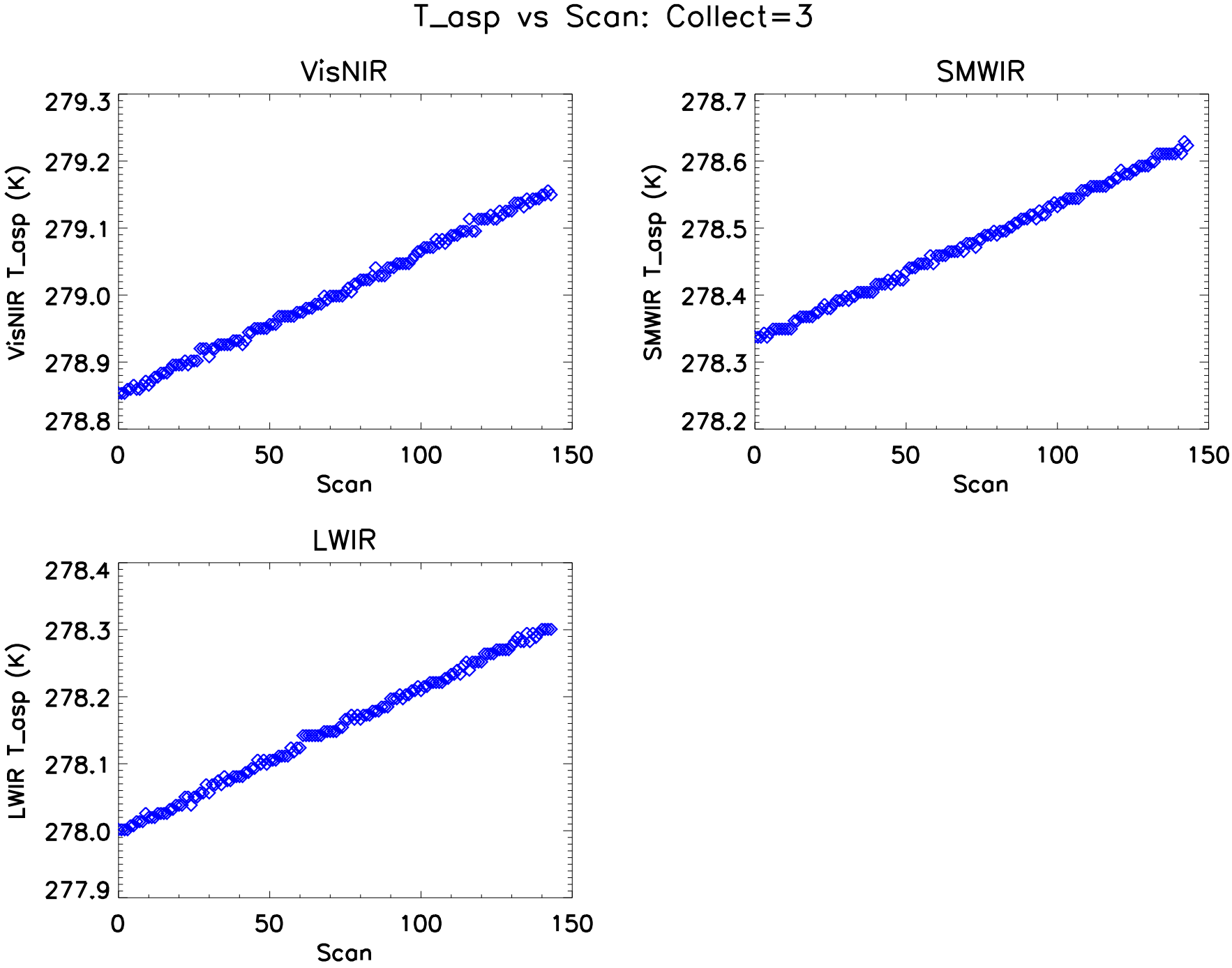

Collect=1
LWIR T_osp (K)
266.60
266.55
266.50
266.45
266.40
0
50
100
150
Scan
Collect=2
LWIR T_osp (K)
271.0
270.9
270.8
270.7
270.6
0
50
100
150
Scan
Collect=3
LWIR T_osp (K)
278.4
278.3
278.2
278.1
278.0
277.9
0
50
100
150
Scan
Collect=4
LWIR T_osp (K)
284.4
284.3
284.2
284.1
284.0
0
50
100
150
Scan
Collect=5
LWIR T_osp (K)
289.2
289.1
289.0
288.9
288.8
0
50
100
150
Scan
Collect=6
LWIR T_osp (K)
293.15
293.10
293.05
293.00
292.95
292.90
292.85
0
50
100
150
Scan
Collect=7
LWIR T_osp (K)
297.20
297.15
297.10
297.05
297.00
296.95
296.90
296.85
0
50
100
150
Scan
Collect=8
LWIR T_osp (K)
301.15
301.10
301.05
301.00
300.95
300.90
300.85
300.80
0
50
100
150
Scan
Collect=9
LWIR T_osp (K)
304.40
304.35
304.30
304.25
304.20
304.15
0
50
100
150
Scan

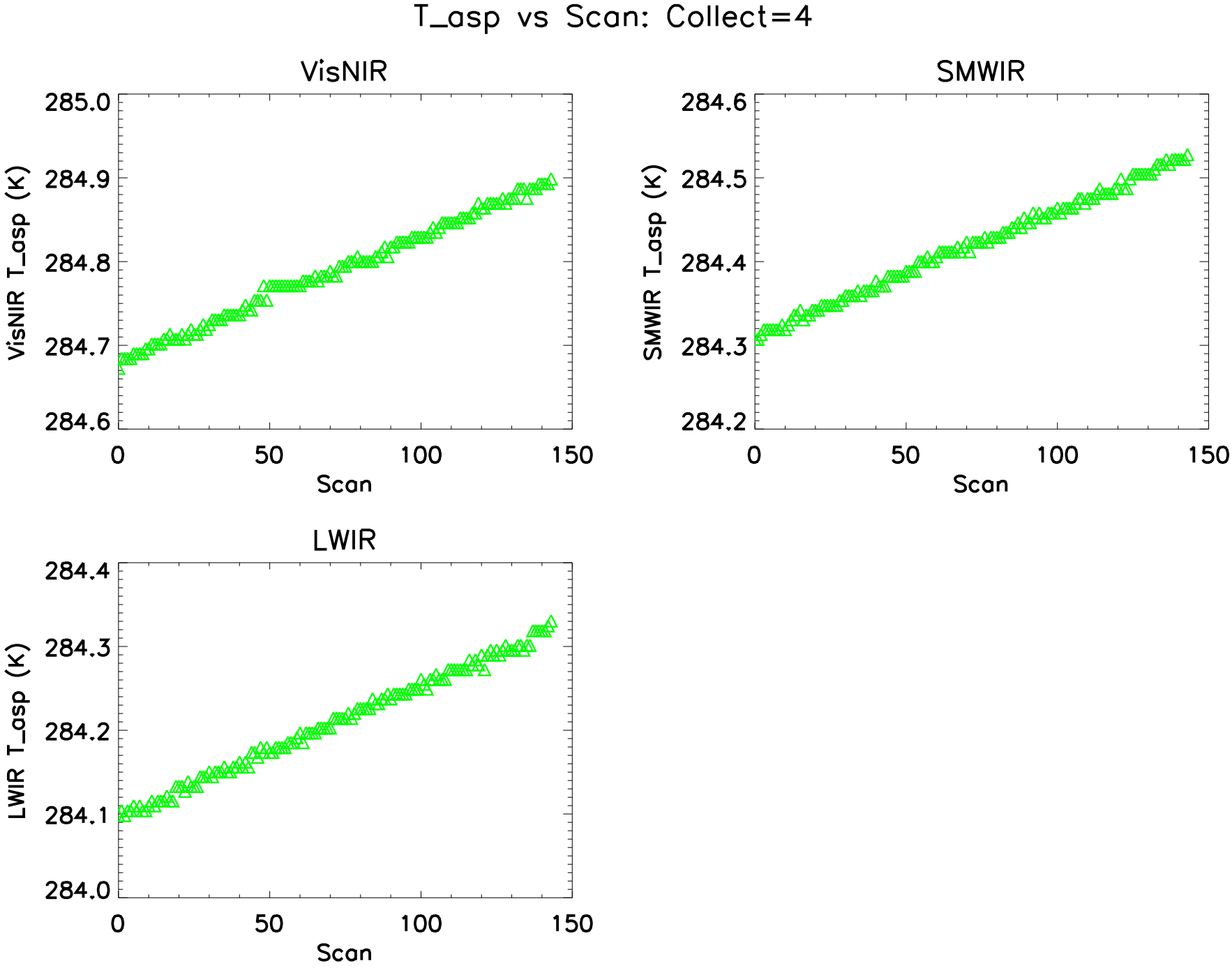
LWIR T_asp vs Scan

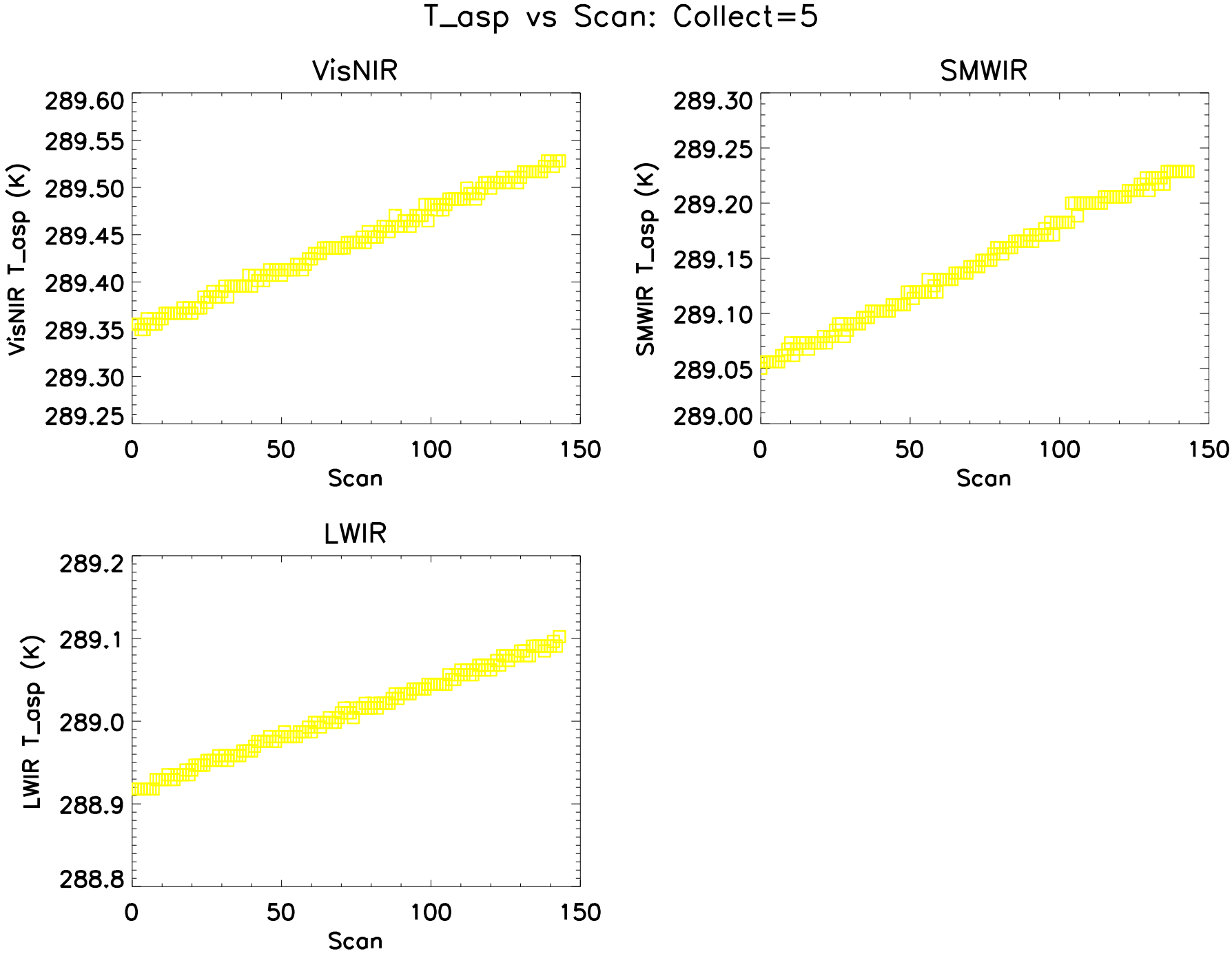


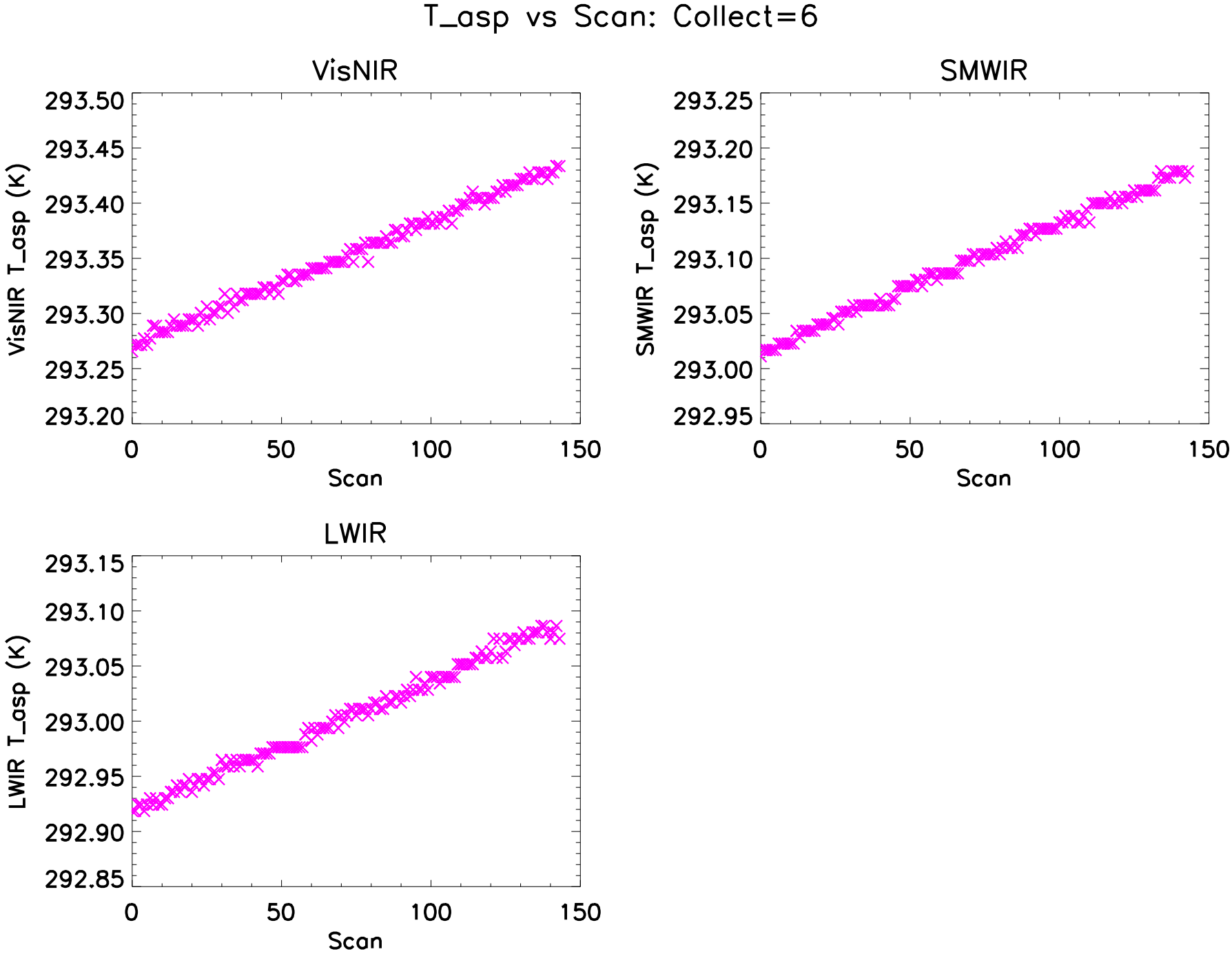

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
267.00
266.95
266.90
266.85
266.80
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
266.90
266.85
266.80
266.75
266.70
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
266.60
266.55
266.50
266.45
266.40
0
50
100
150
Scan

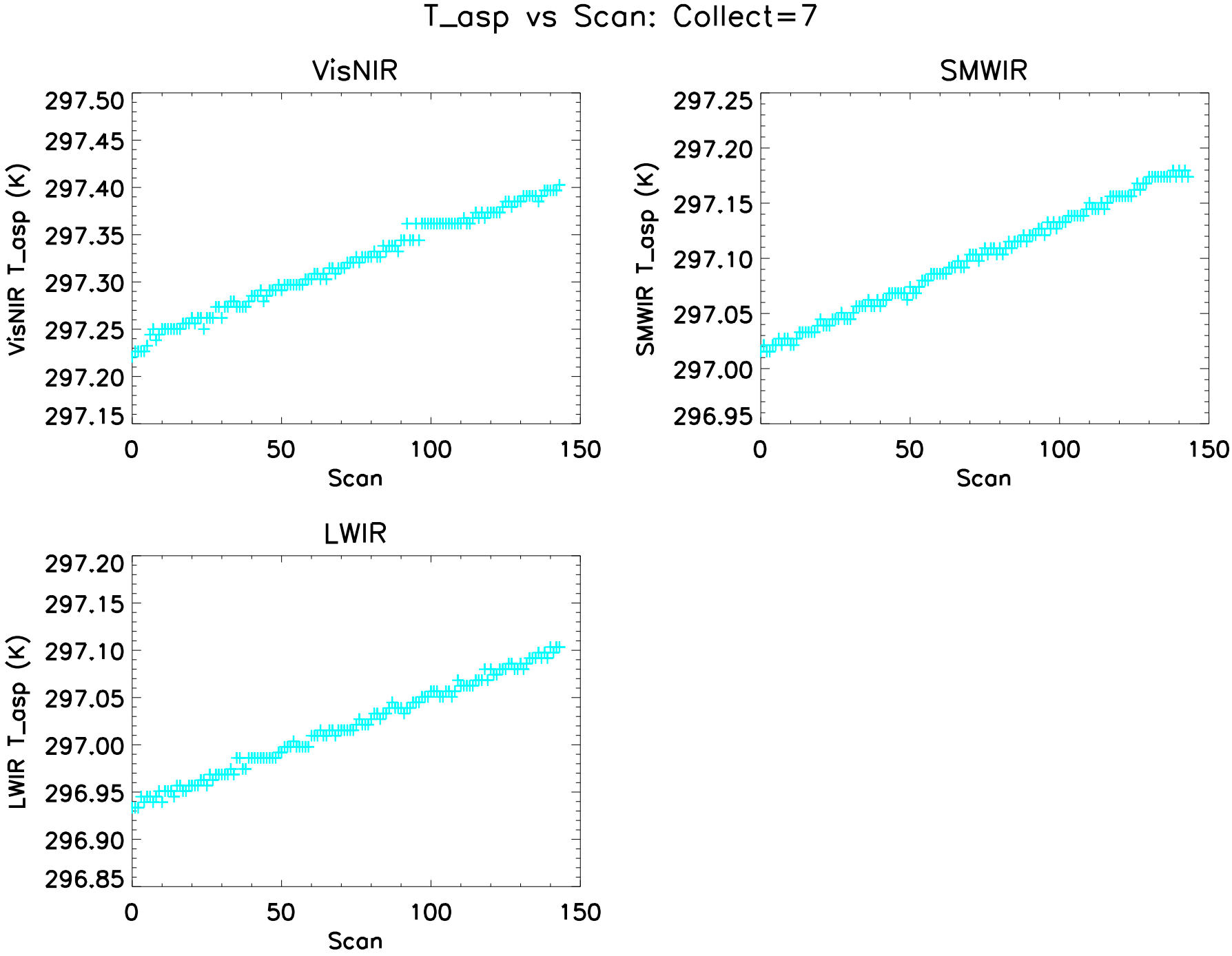

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
271.8
271.7
271.6
271.5
271.4
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
271.4
271.3
271.2
271.1
271.0
270.9
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
271.0
270.9
270.8
270.7
270.6
0
50
100
150
Scan

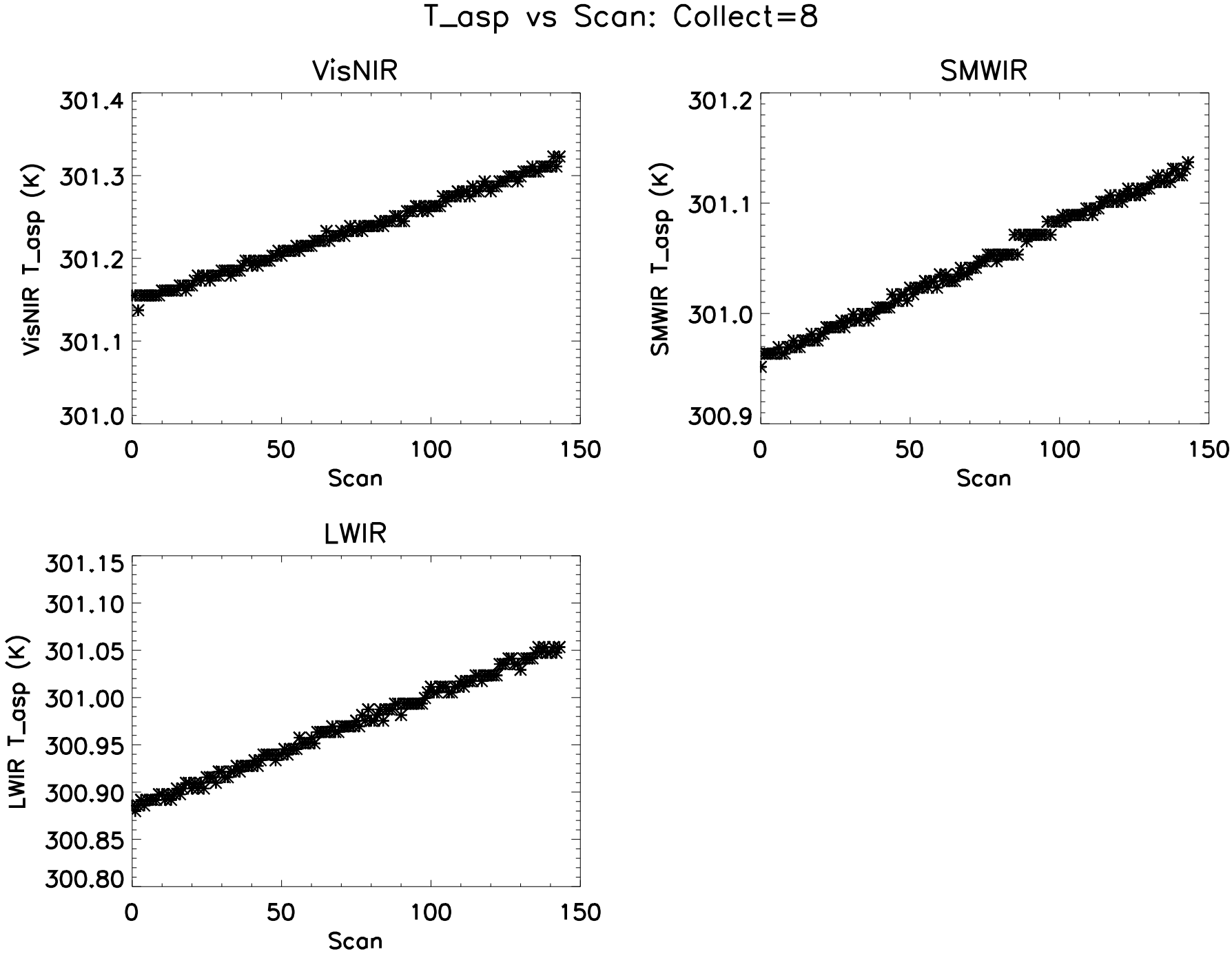

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
279.3
279.2
279.1
279.0
278.9
278.8
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
278.7
278.6
278.5
278.4
278.3
278.2
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
278.4
278.3
278.2
278.1
278.0
277.9
0
50
100
150
Scan

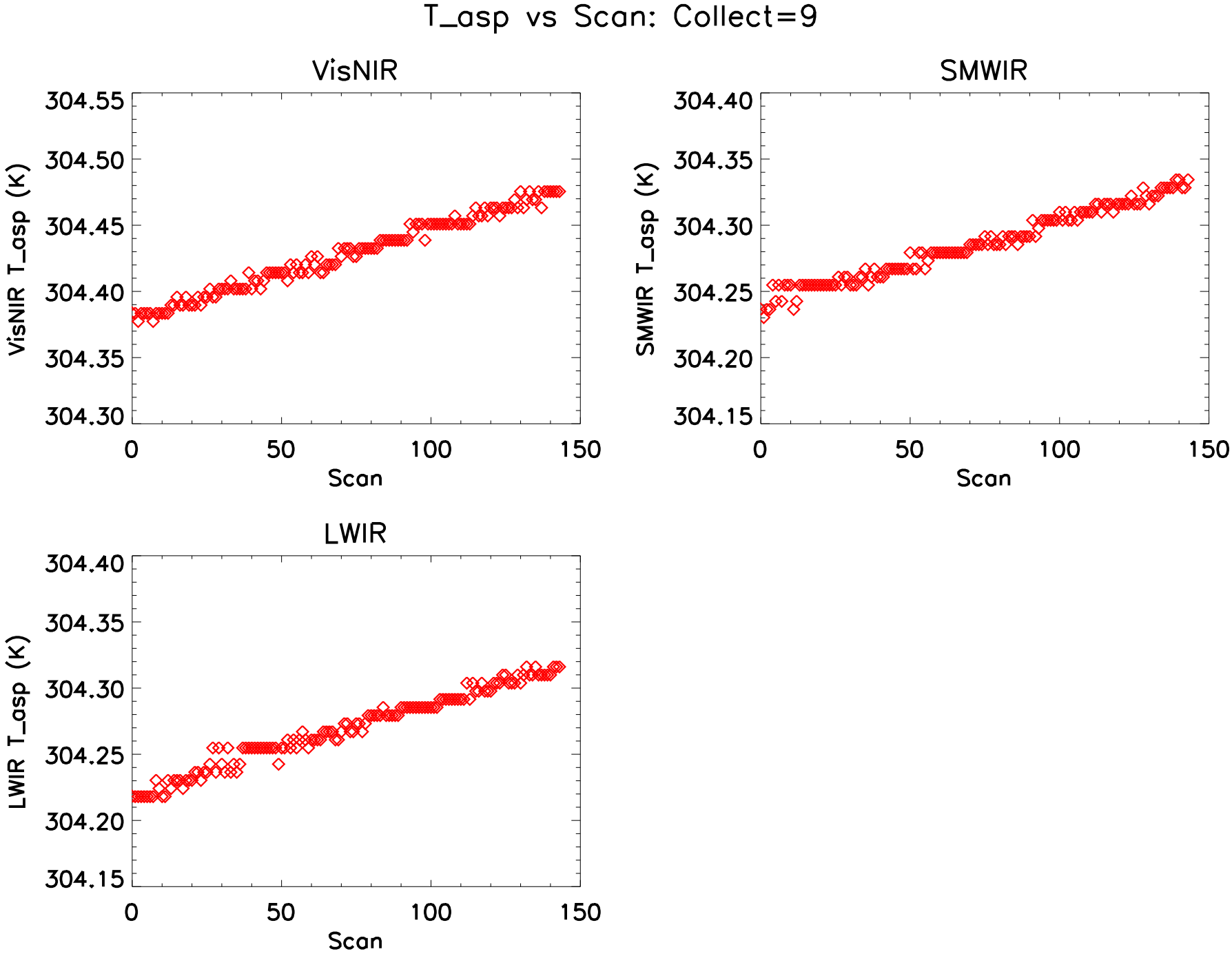

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
285.0
284.9
284.8
284.7
284.6
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
284.6
284.5
284.4
284.3
284.2
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
284.4
284.3
284.2
284.1
284.0
0
50
100
150
Scan

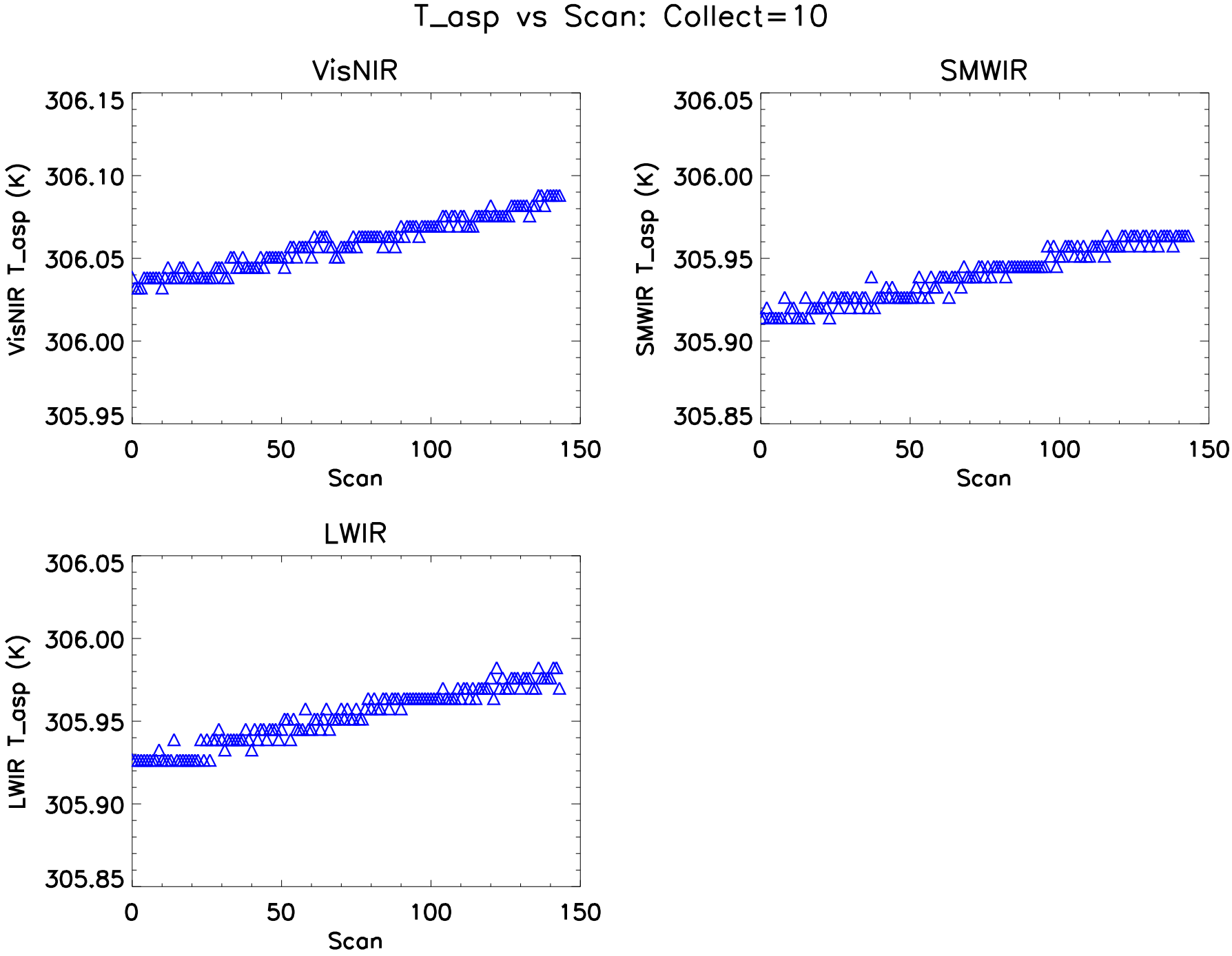

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
289.60
289.55
289.50
289.45
289.40
289.35
289.30
289.25
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
289.30
289.25
289.20
289.15
289.10
289.05
289.00
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
289.2
289.1
289.0
288.9
288.8
0
50
100
150
Scan

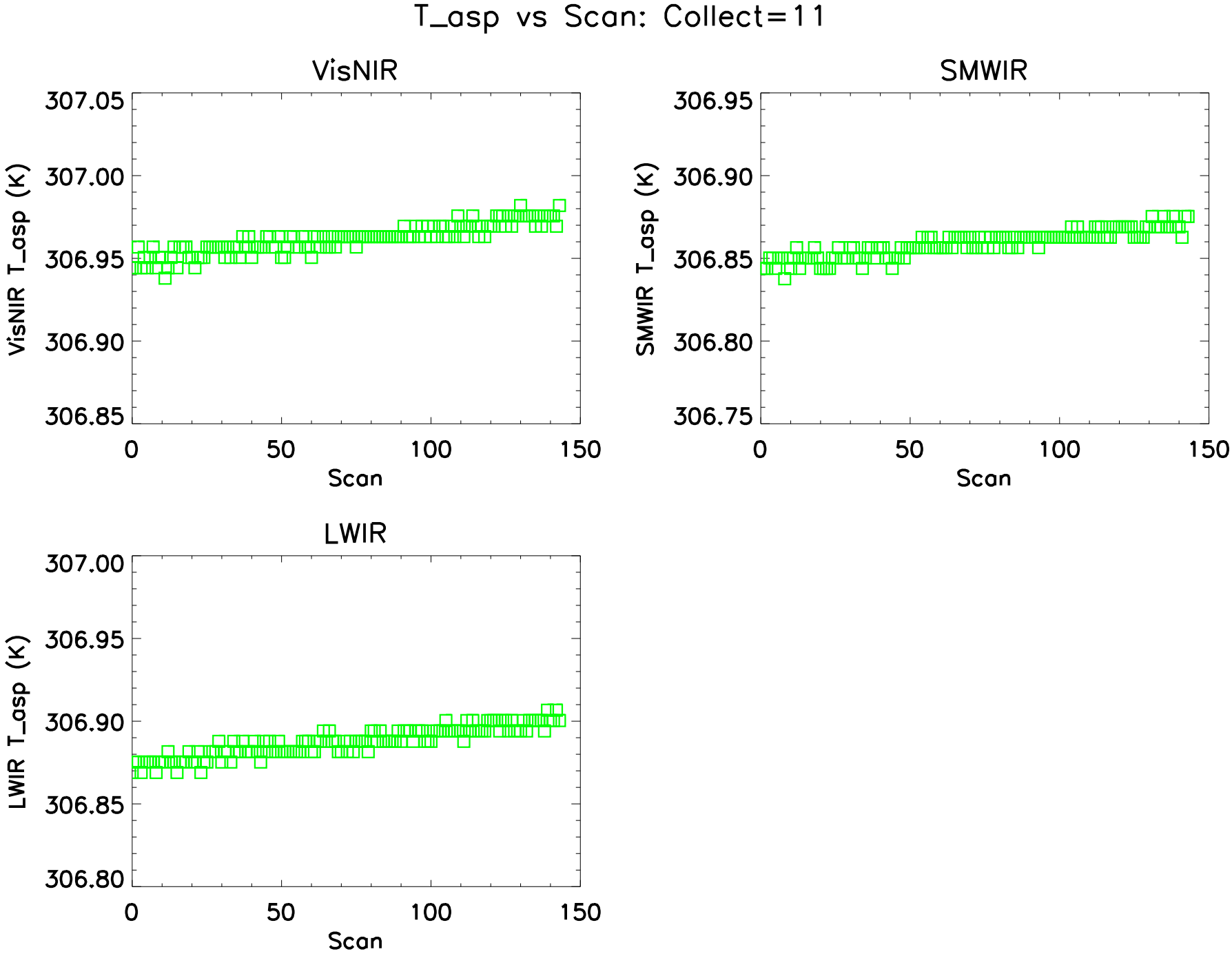

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
293.50
293.45
293.40
293.35
293.30
293.25
293.20
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
293.25
293.20
293.15
293.10
293.05
293.00
292.95
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
293.15
293.10
293.05
293.00
292.95
292.90
292.85
0
50
100
150
Scan

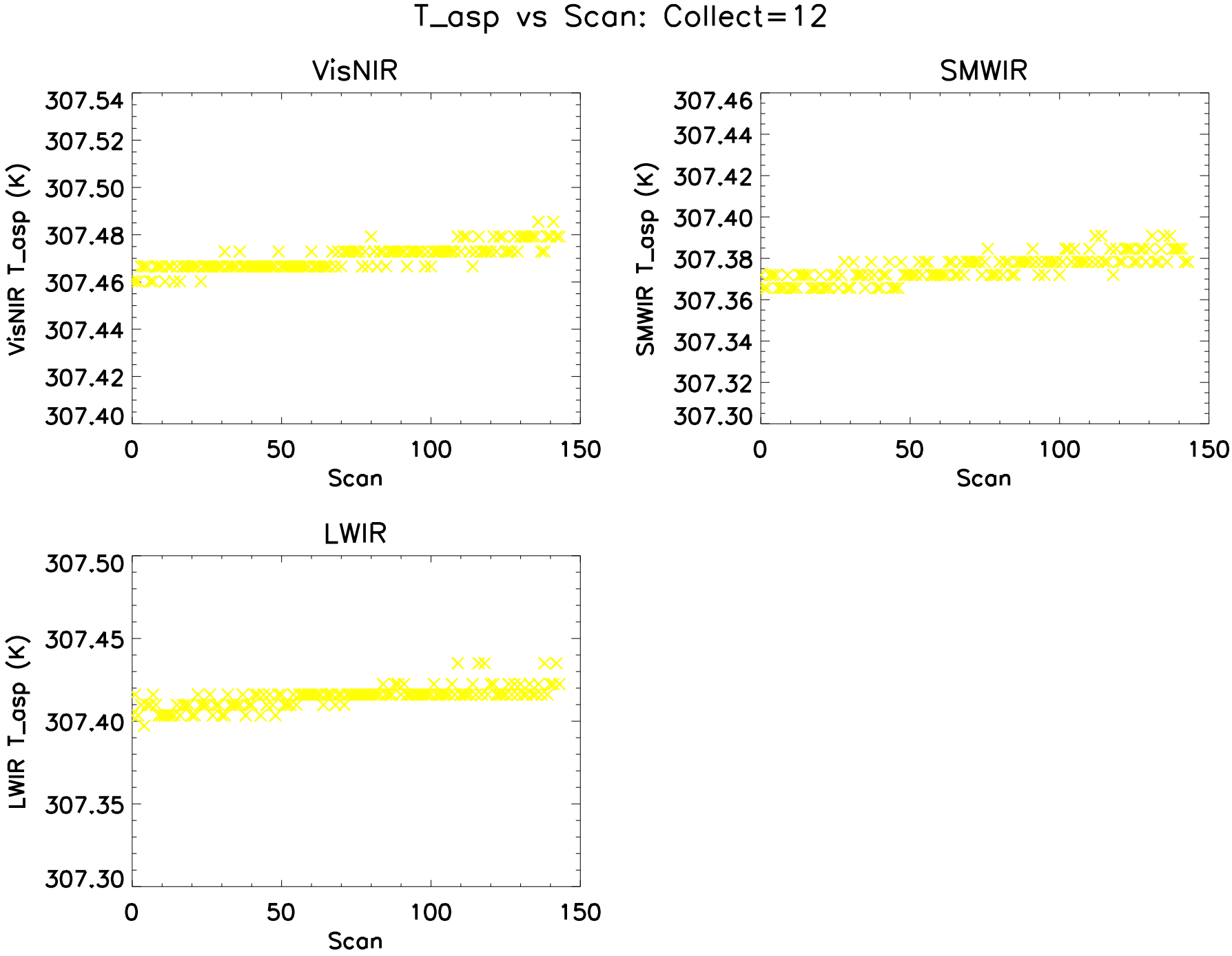

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
297.50
297.45
297.40
297.35
297.30
297.25
297.20
297.15
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
297.25
297.20
297.15
297.10
297.05
297.00
296.95
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
297.20
297.15
297.10
297.05
297.00
296.95
296.90
296.85
0
50
100
150
Scan

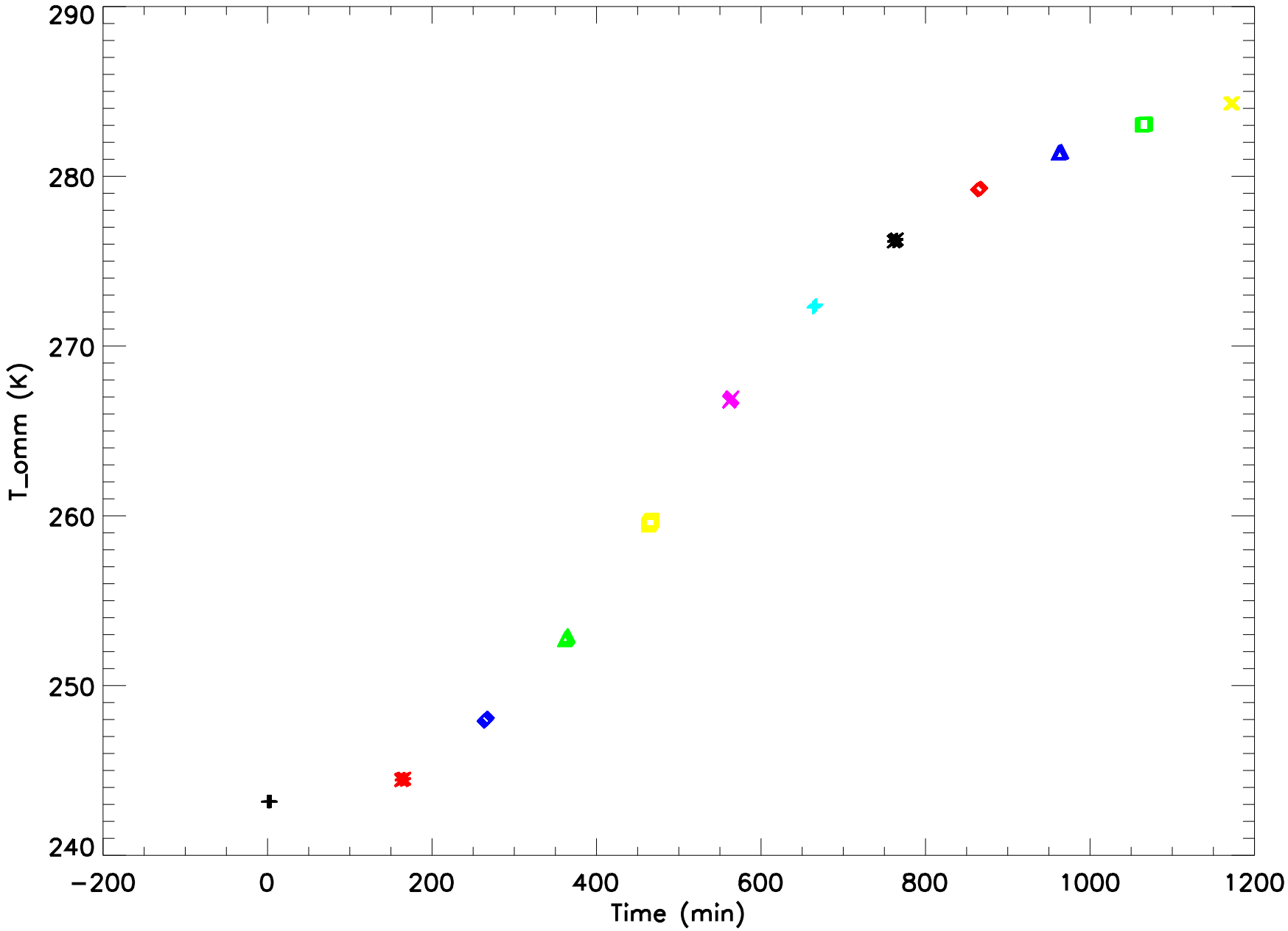

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
301.4
301.3
301.2
301.1
301.0
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
301.2
301.1
301.0
300.9
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
301.15
301.10
301.05
301.00
300.95
300.90
300.85
300.80
0
50
100
150
Scan


T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
304.55
304.50
304.45
304.40
304.35
304.30
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
304.40
304.35
304.30
304.25
304.20
304.15
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
304.40
304.35
304.30
304.25
304.20
304.15
0
50
100
150
Scan

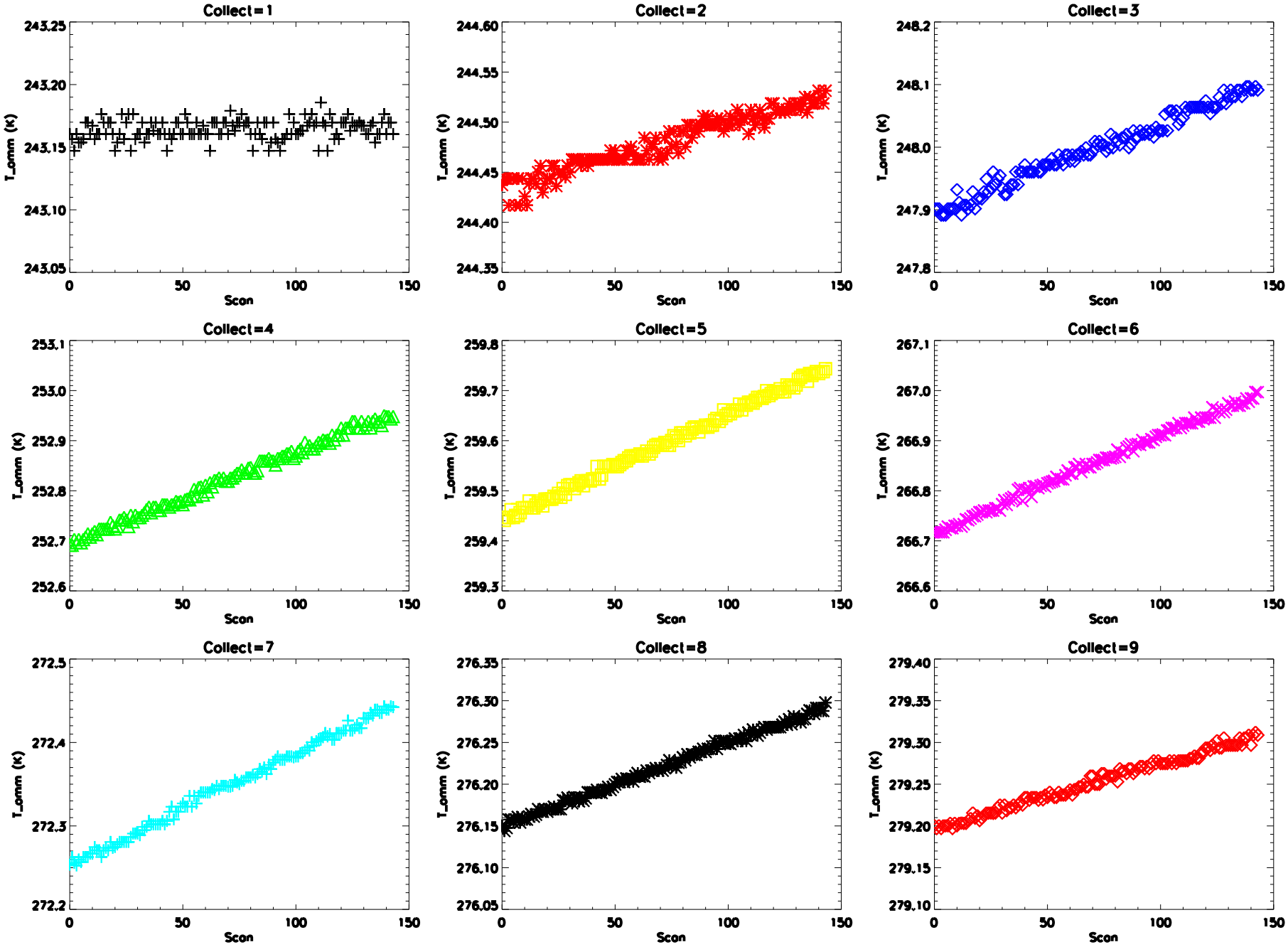

T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
306.15
306.10
306.05
306.00
305.95
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
306.05
306.00
305.95
305.90
305.85
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
306.05
306.00
305.95
305.90
305.85
0
50
100
150
Scan


T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
307.05
307.00
306.95
306.90
306.85
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
306.95
306.90
306.85
306.80
306.75
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
307.00
306.95
306.90
306.85
306.80
0
50
100
150
Scan

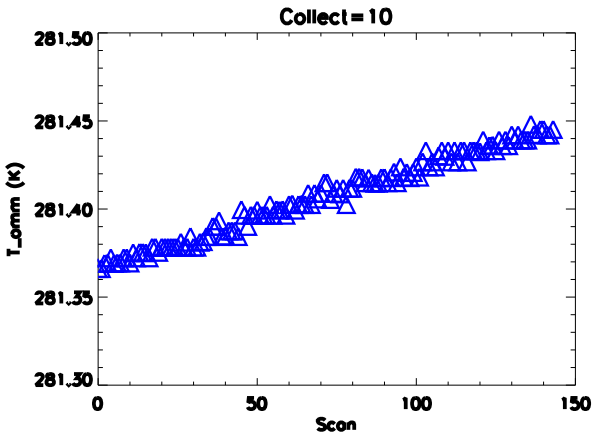

T_asp vs Scan: Collect=12
VisNIR
VisNIR T_asp (K)
307.54
307.52
307.50
307.48
307.46
307.44
307.42
307.40
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
307.46
307.44
307.42
307.40
307.38
307.36
307.34
307.32
307.30
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
307.50
307.45
307.40
307.35
307.30
0
50
100
150
Scan

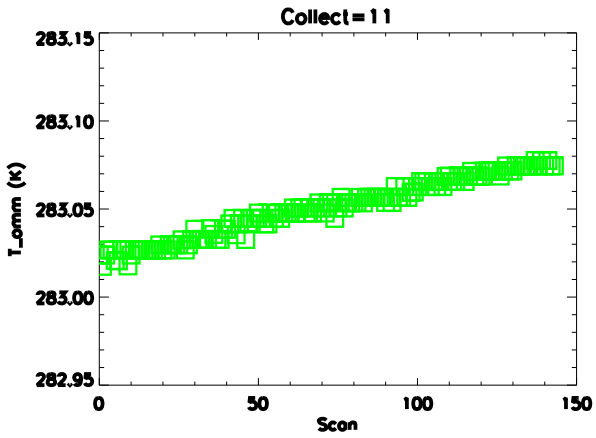

T_omm vs Time
290
280
270
260
250
240
T_omm (K)
−200
0
200
400
600
800
1000
1200
Time (min)

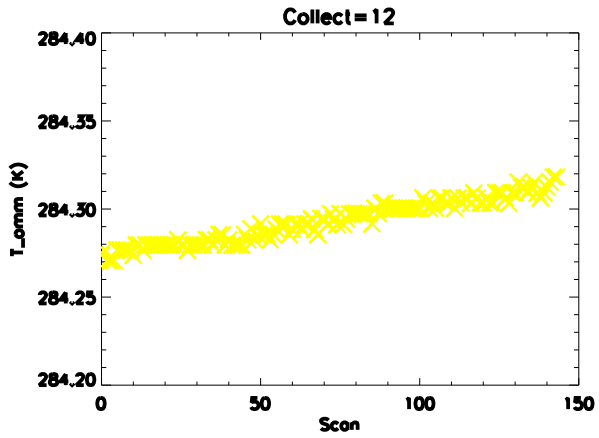
T_omm vs Scan


Collect=1
243.25
243.20
243.15
243.10
243.05
T_omm (K)
0
50
100
150
Scan
Collect=2
244.60
244.55
244.50
244.45
244.40
244.35
T_omm (K)
0
50
100
150
Scan
Collect=3
248.2
248.1
248.0
247.9
247.8
T_omm (K)
0
50
100
150
Scan
Collect=4
253.1
253.0
252.9
252.8
252.7
252.6
T_omm (K)
0
50
100
150
Scan
Collect=5
259.8
259.7
259.6
259.5
259.4
259.3
T_omm (K)
0
50
100
150
Scan
Collect=6
267.1
267.0
266.9
266.8
266.7
266.6
T_omm (K)
0
50
100
150
Scan
Collect=7
272.5
272.4
272.3
272.2
T_omm (K)
0
50
100
150
Scan
Collect=8
276.35
276.30
276.25
276.20
276.15
276.10
276.05
T_omm (K)
0
50
100
150
Scan
Collect=9
279.40
279.35
279.30
279.25
279.20
279.15
279.10
T_omm (K)
0
50
100
150
Scan

T_omm vs Scan


Collect = 10
T_omm (K)
281.50
281.45
281.40
281.35
281.30
0
50
100
150
Scan


Collect = 11
T_omm (K)
283.15
283.10
283.05
283.00
282.95
0
50
100
150
Scan


Collect = 12
T_omm (K)
284.40
284.35
284.30
284.25
284.20
0
50
100
150
Scan