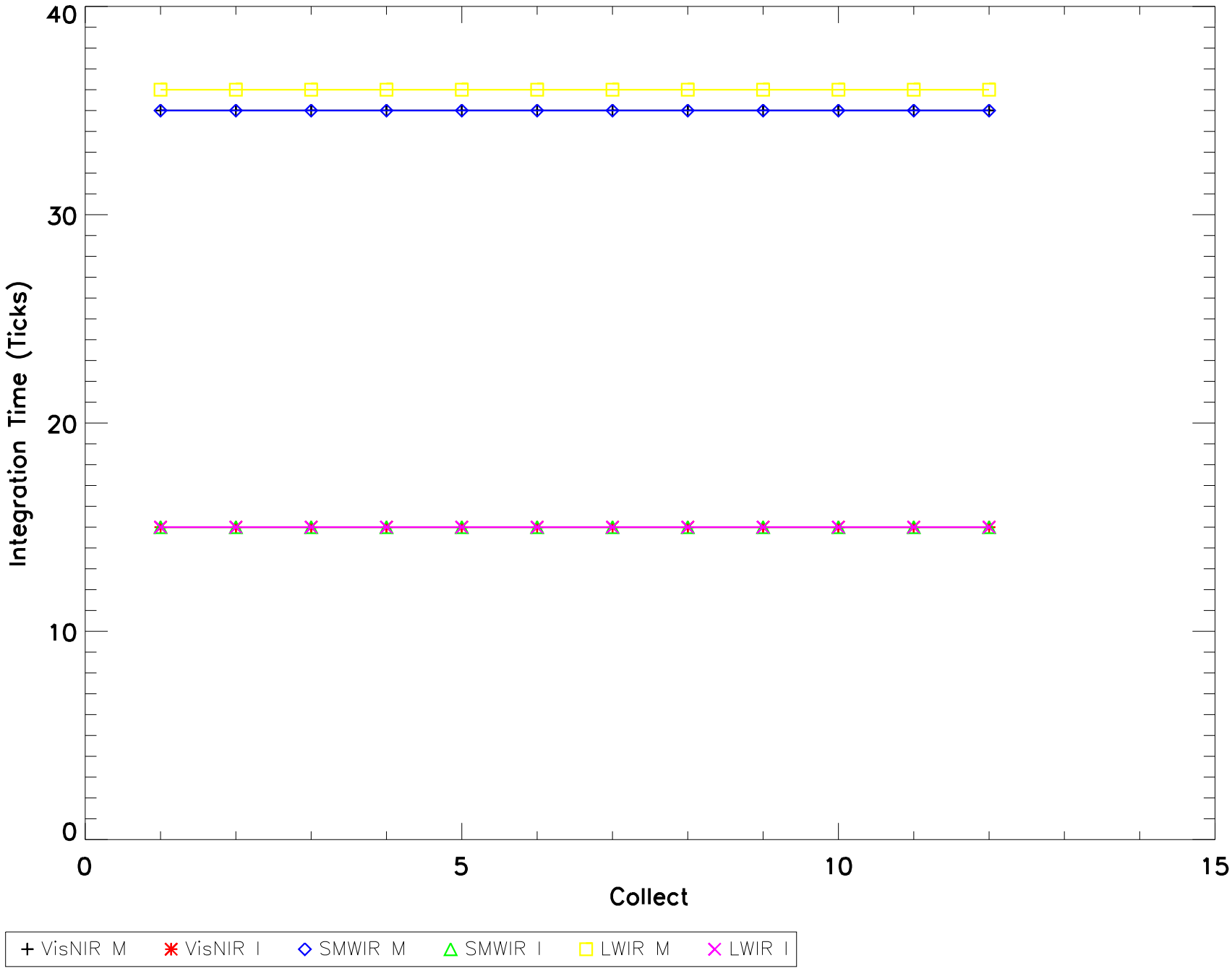
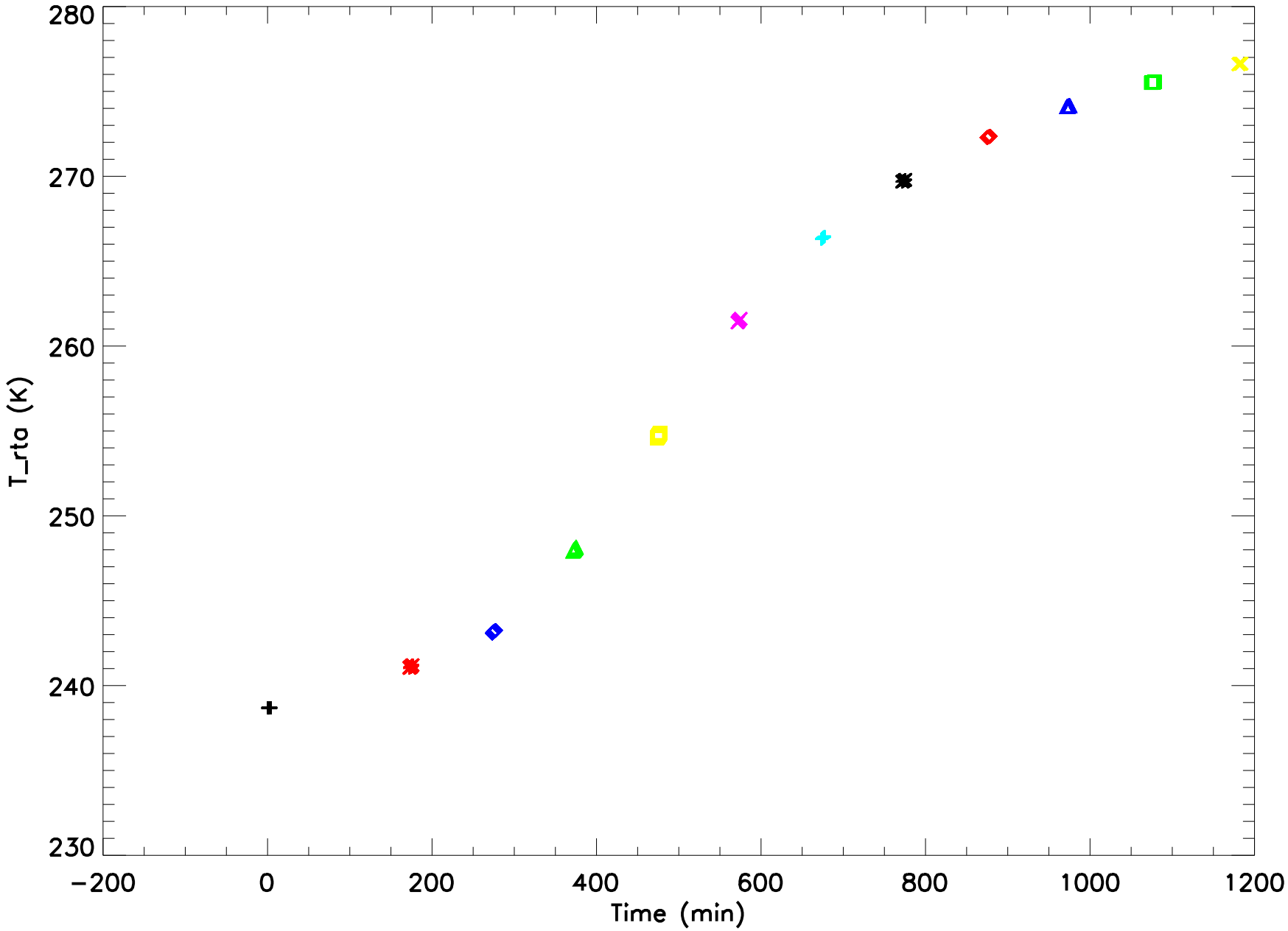
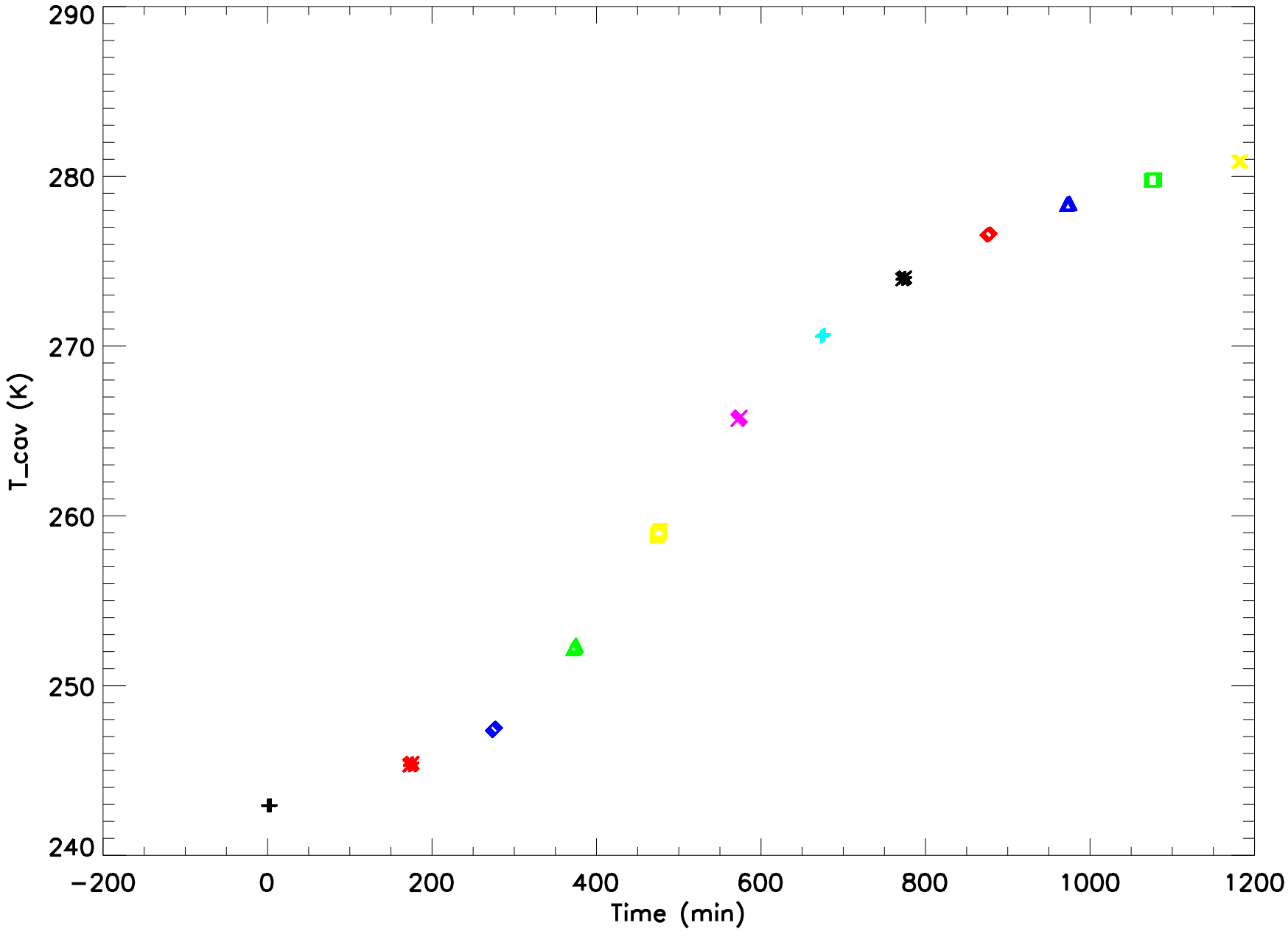
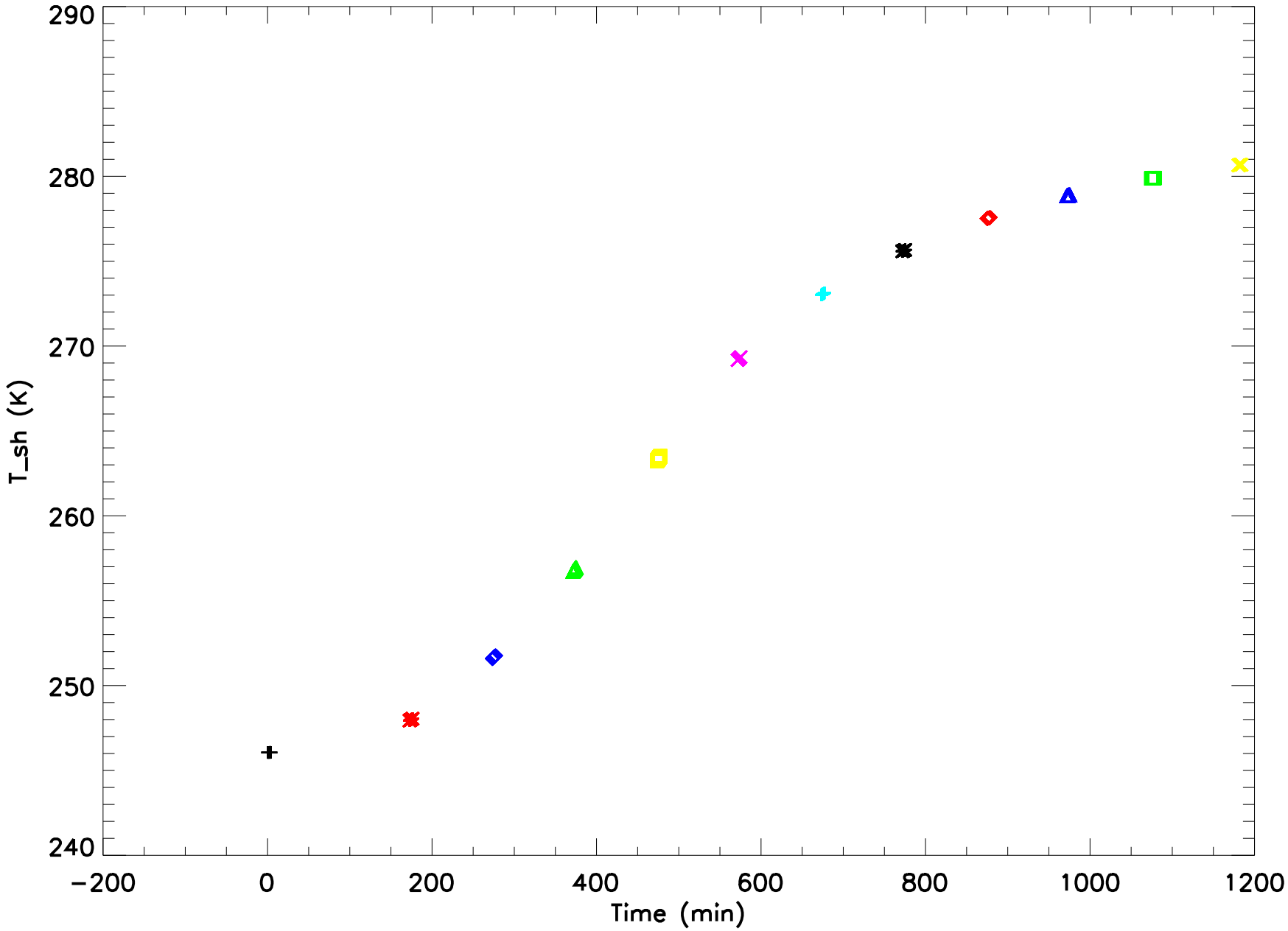
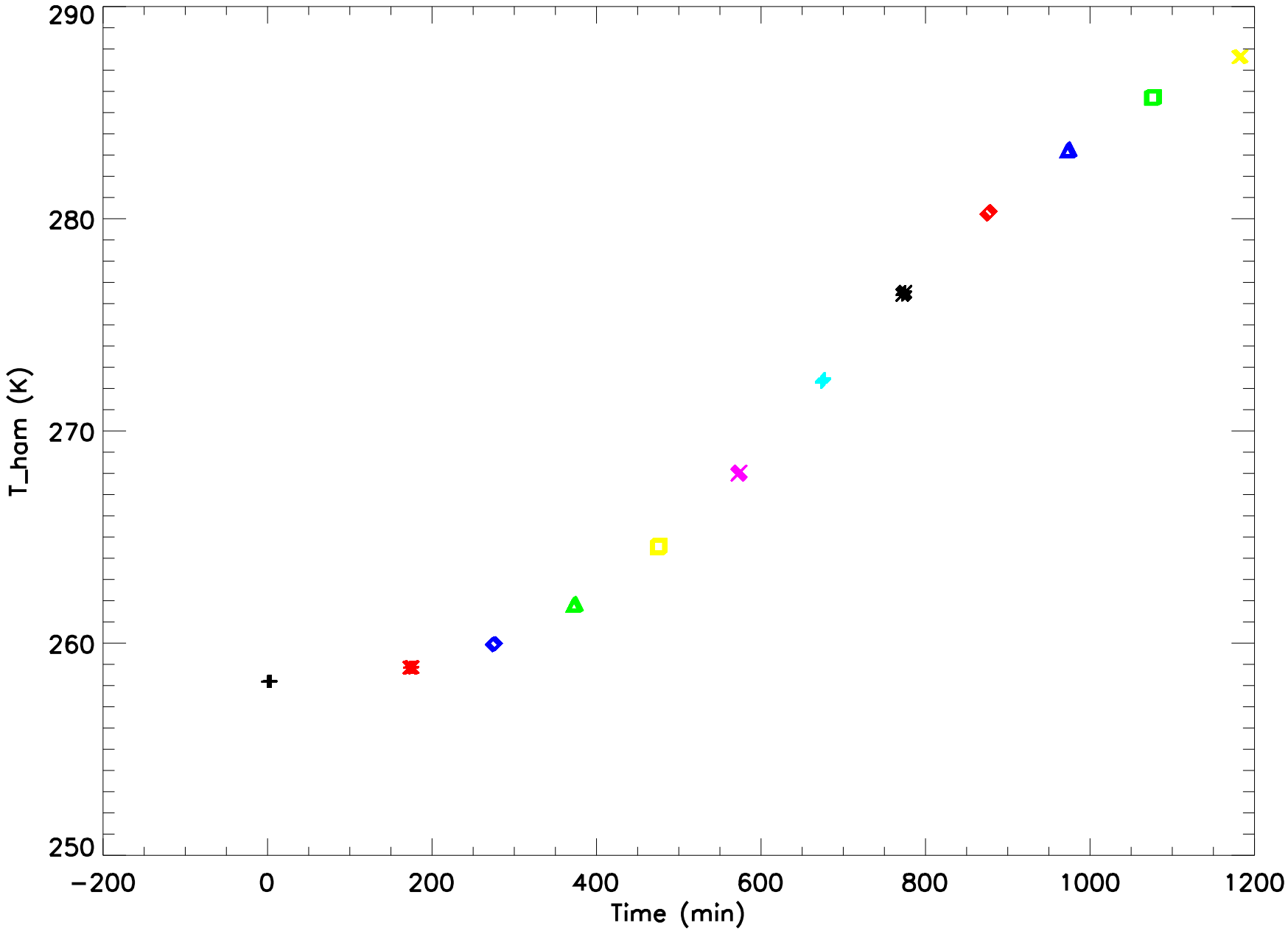
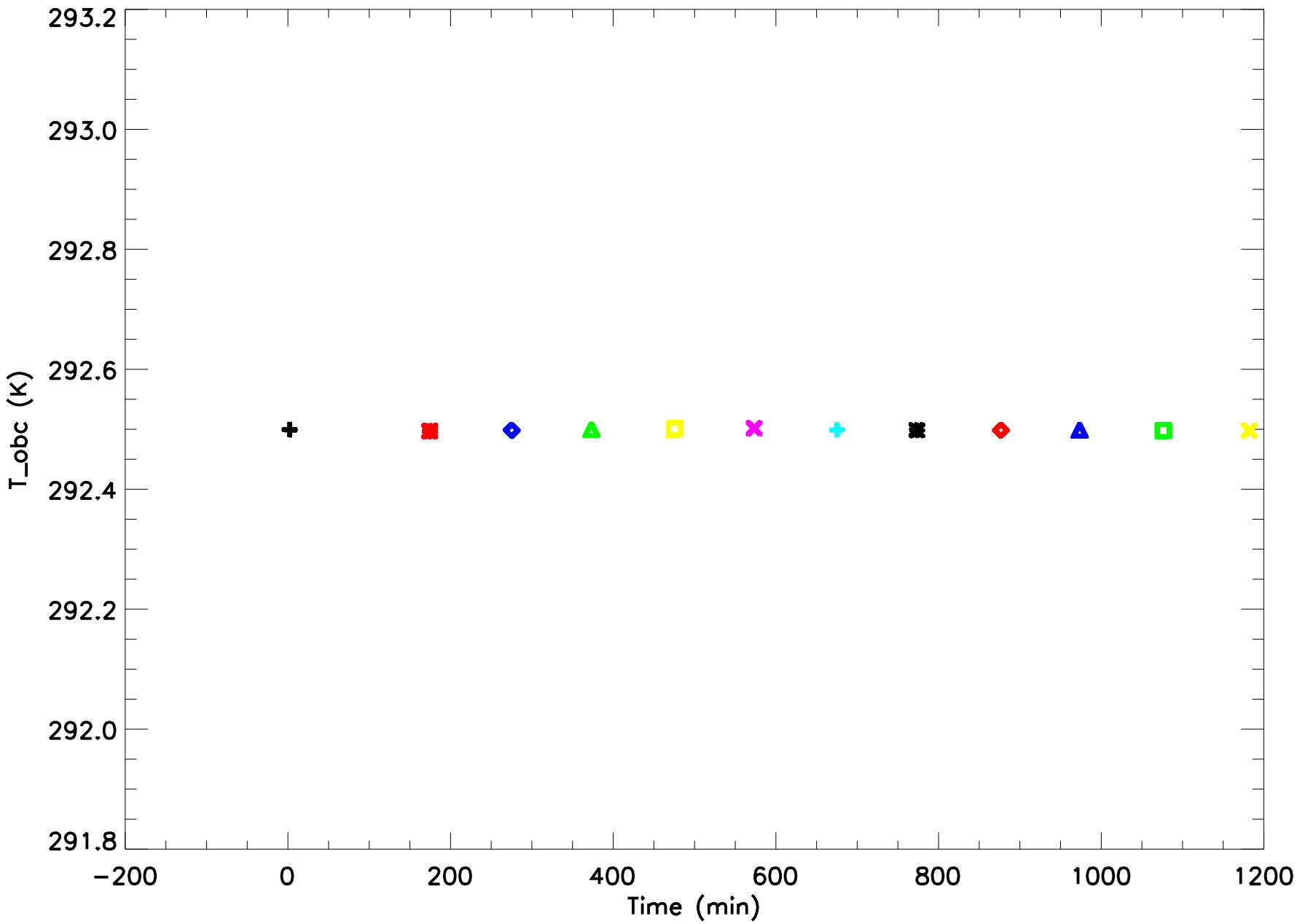

Integration Time vs Collect
Integration Time (Ticks)
40
30
20
10
0
0
5
10
15
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I


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

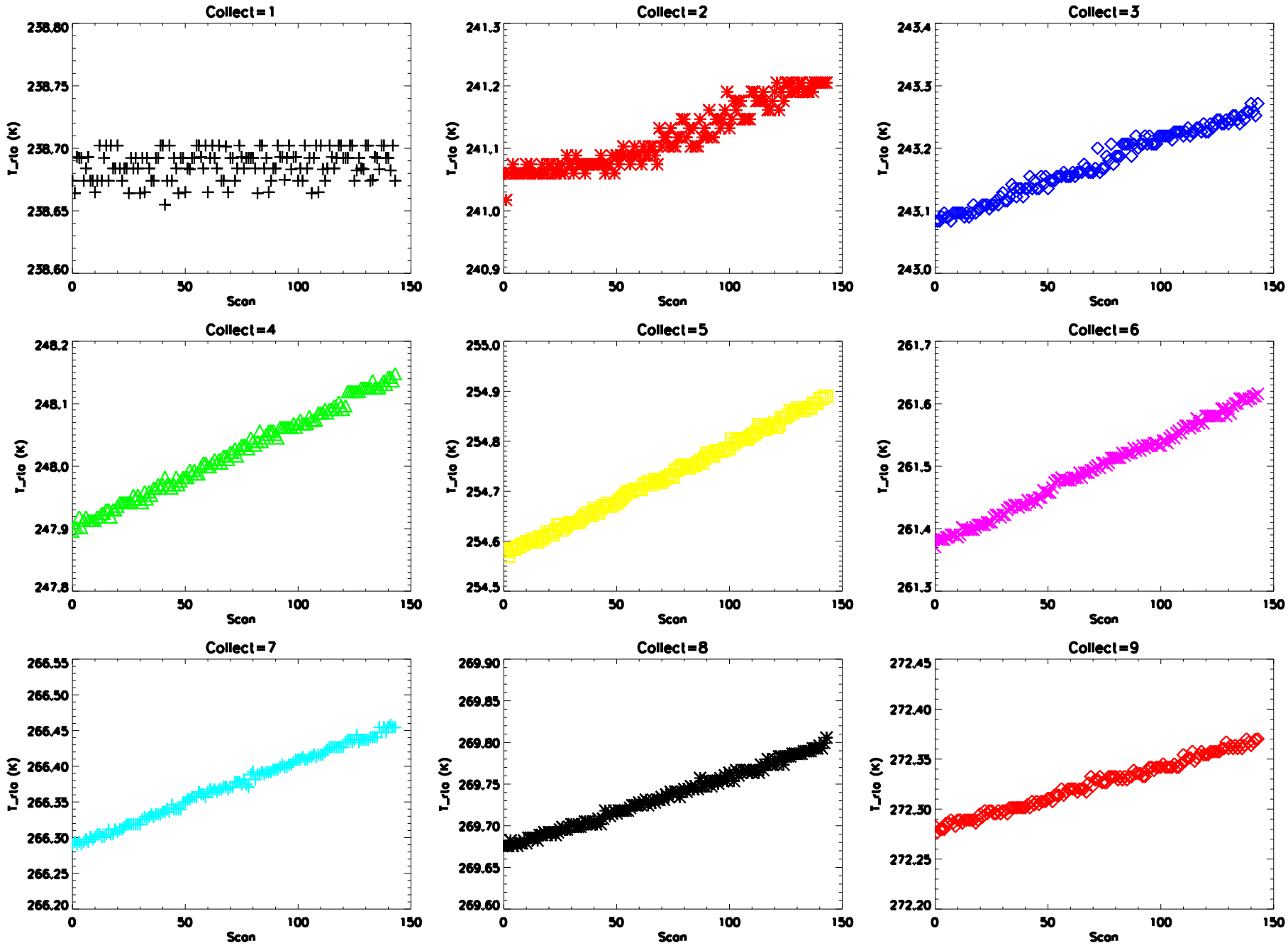

T_cav vs Time
290
280
270
260
250
240
T_cav (K)
−200
0
200
400
600
800
1000
1200
Time (min)


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

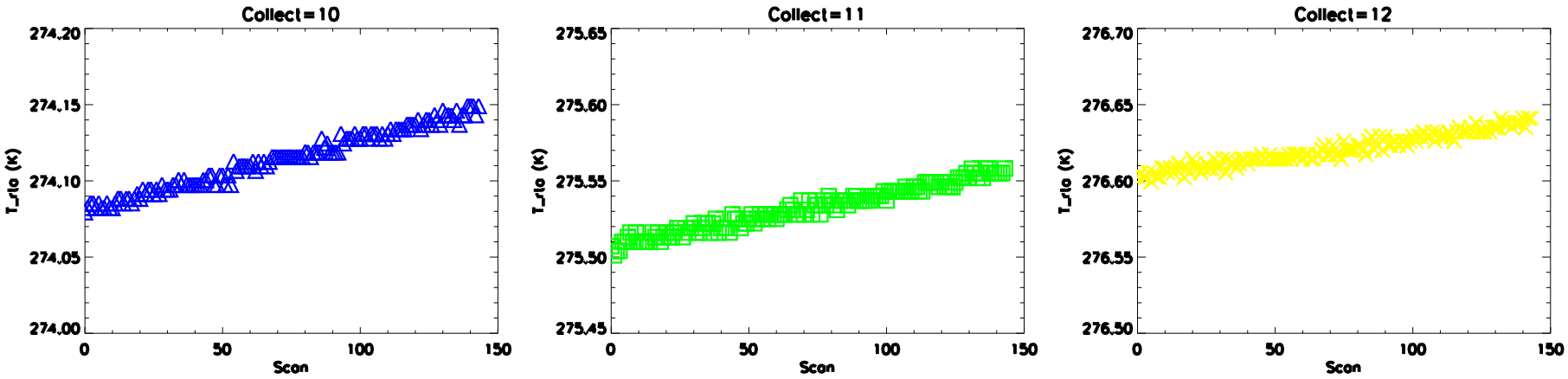

T_ham vs Time
290
280
270
260
250
T_ham (K)
−200
0
200
400
600
800
1000
1200
Time (min)


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)

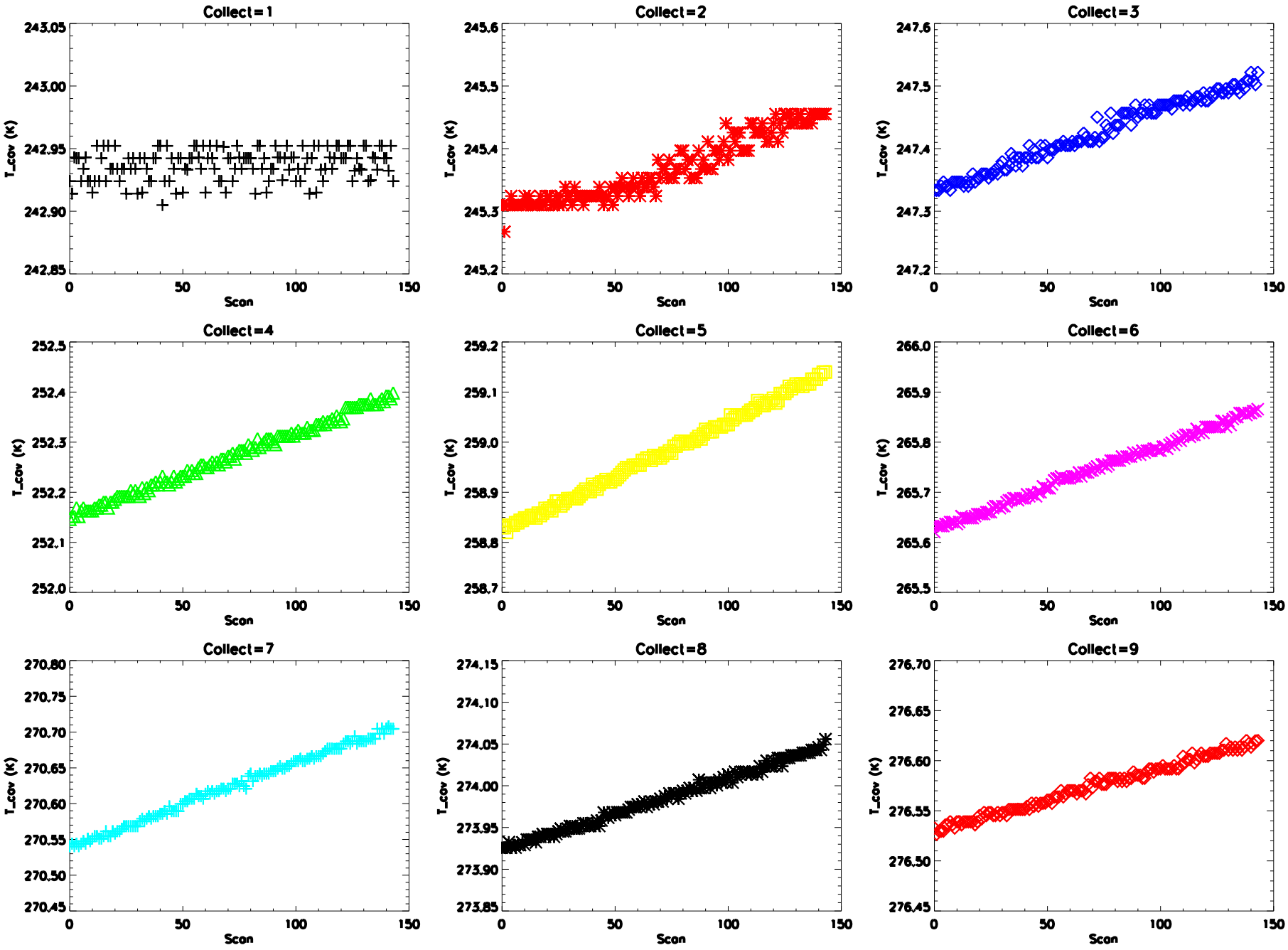
T_rta vs Scan


Collect=1
238.80
238.75
238.70
238.65
238.60
T_rta (K)
0
50
100
150
Scan
Collect=2
241.3
241.2
241.1
241.0
240.9
T_rta (K)
0
50
100
150
Scan
Collect=3
243.4
243.3
243.2
243.1
243.0
T_rta (K)
0
50
100
150
Scan
Collect=4
248.2
248.1
248.0
247.9
247.8
T_rta (K)
0
50
100
150
Scan
Collect=5
255.0
254.9
254.8
254.7
254.6
254.5
T_rta (K)
0
50
100
150
Scan
Collect=6
261.7
261.6
261.5
261.4
261.3
T_rta (K)
0
50
100
150
Scan
Collect=7
266.55
266.50
266.45
266.40
266.35
266.30
266.25
266.20
T_rta (K)
0
50
100
150
Scan
Collect=8
269.90
269.85
269.80
269.75
269.70
269.65
269.60
T_rta (K)
0
50
100
150
Scan
Collect=9
272.45
272.40
272.35
272.30
272.25
272.20
T_rta (K)
0
50
100
150
Scan

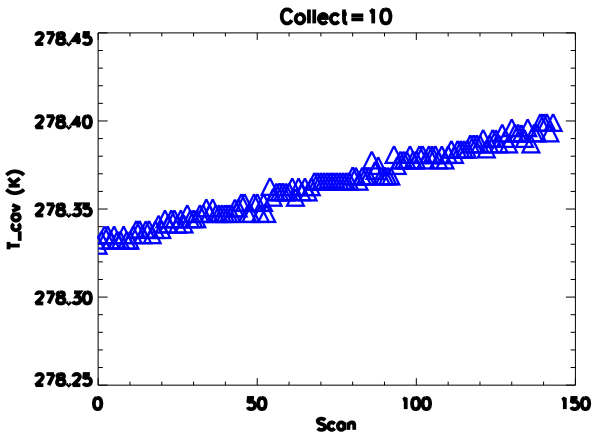
T_rta vs Scan

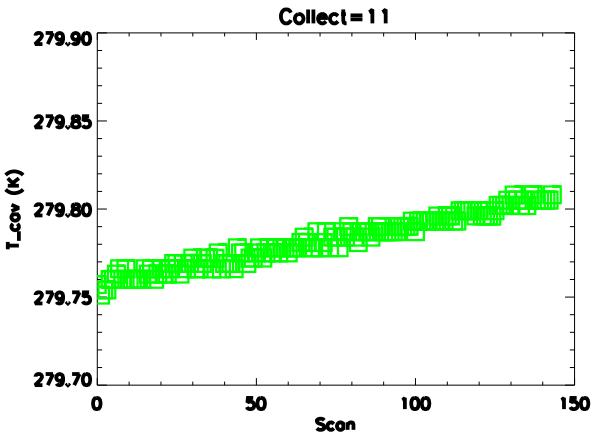

Collect = 10
Collect = 11
Collect = 12
T_rta (K)
Scan
274.00
274.05
274.10
274.15
274.20
275.45
275.50
275.55
275.60
275.65
276.50
276.55
276.60
276.65
276.70
0
50
100
150

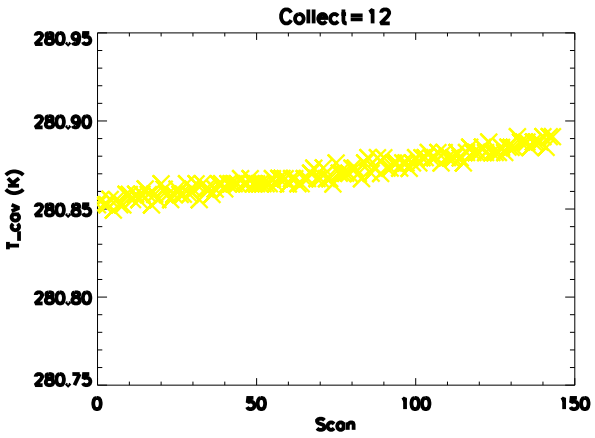
T_cav vs Scan


Collect=1
243.05
243.00
242.95
242.90
242.85
T_cav (K)
0
50
100
150
Scan
Collect=2
245.6
245.5
245.4
245.3
245.2
T_cav (K)
0
50
100
150
Scan
Collect=3
247.6
247.5
247.4
247.3
247.2
T_cav (K)
0
50
100
150
Scan
Collect=4
252.5
252.4
252.3
252.2
252.1
252.0
T_cav (K)
0
50
100
150
Scan
Collect=5
259.2
259.1
259.0
258.9
258.8
258.7
T_cav (K)
0
50
100
150
Scan
Collect=6
266.0
265.9
265.8
265.7
265.6
265.5
T_cav (K)
0
50
100
150
Scan
Collect=7
270.80
270.75
270.70
270.65
270.60
270.55
270.50
270.45
T_cav (K)
0
50
100
150
Scan
Collect=8
274.15
274.10
274.05
274.00
273.95
273.90
273.85
T_cav (K)
0
50
100
150
Scan
Collect=9
276.70
276.65
276.60
276.55
276.50
276.45
T_cav (K)
0
50
100
150
Scan

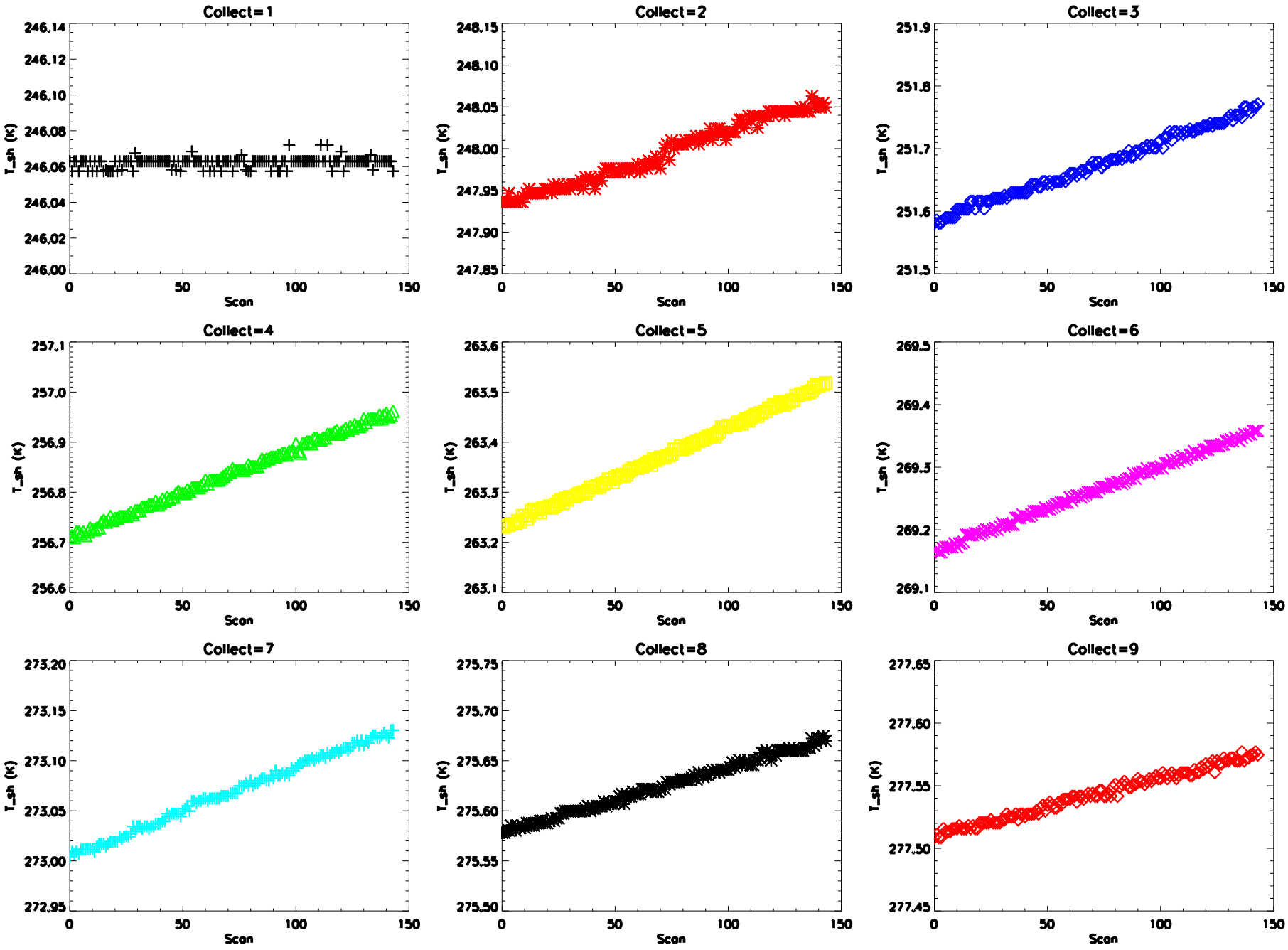
T_cav vs Scan


Collect = 10
278.45
278.40
278.35
278.30
278.25
T_cav (K)
0
50
100
150
Scan

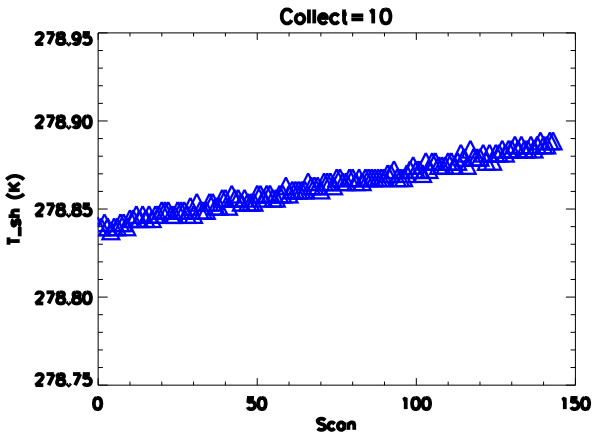

Collect = 11
279.90
279.85
279.80
279.75
279.70
T_cav (K)
0
50
100
150
Scan

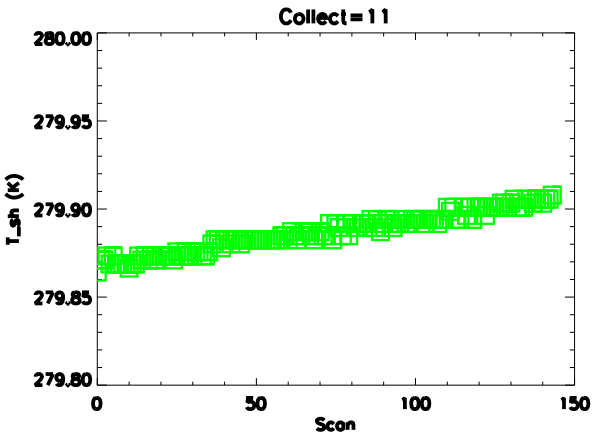

Collect = 12
280.95
280.90
280.85
280.80
280.75
T_cav (K)
0
50
100
150
Scan

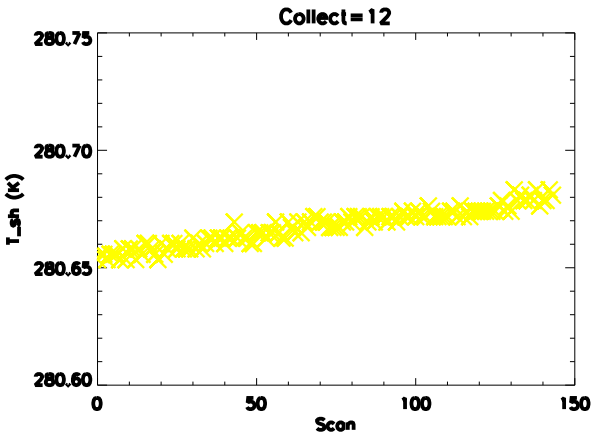
T_sh vs Scan


Collect=1
246.14
246.12
246.10
246.08
246.06
246.04
246.02
246.00
T_sh (K)
0
50
100
150
Scan
Collect=2
248.15
248.10
248.05
248.00
247.95
247.90
247.85
T_sh (K)
0
50
100
150
Scan
Collect=3
251.9
251.8
251.7
251.6
251.5
T_sh (K)
0
50
100
150
Scan
Collect=4
257.1
257.0
256.9
256.8
256.7
256.6
T_sh (K)
0
50
100
150
Scan
Collect=5
263.6
263.5
263.4
263.3
263.2
263.1
T_sh (K)
0
50
100
150
Scan
Collect=6
269.5
269.4
269.3
269.2
269.1
T_sh (K)
0
50
100
150
Scan
Collect=7
273.20
273.15
273.10
273.05
273.00
272.95
T_sh (K)
0
50
100
150
Scan
Collect=8
275.75
275.70
275.65
275.60
275.55
275.50
T_sh (K)
0
50
100
150
Scan
Collect=9
277.65
277.60
277.55
277.50
277.45
T_sh (K)
0
50
100
150
Scan

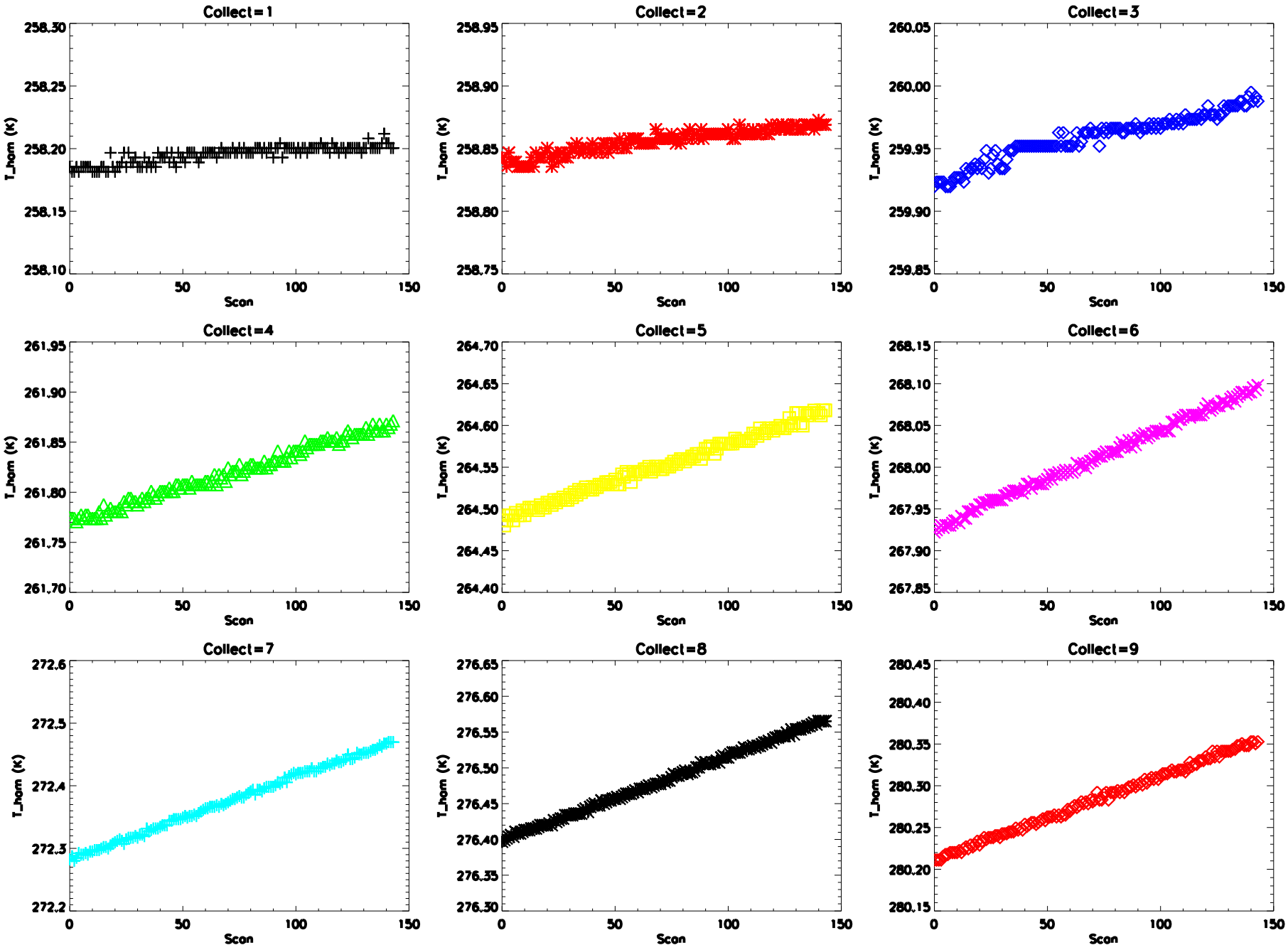
T_sh vs Scan


Collect = 10
278.95
278.90
278.85
278.80
278.75
T_sh (K)
0
50
100
150
Scan

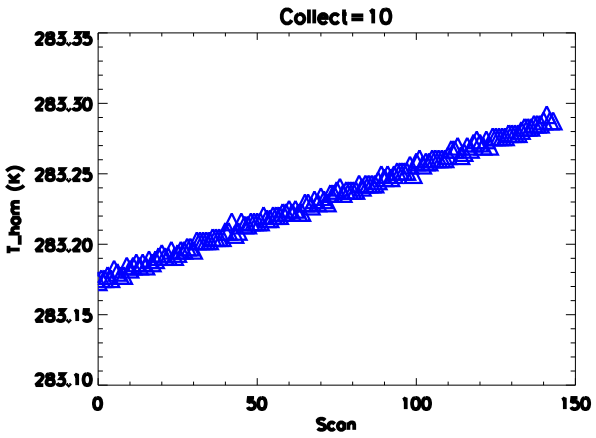

Collect = 11
280.00
279.95
279.90
279.85
279.80
T_sh (K)
0
50
100
150
Scan

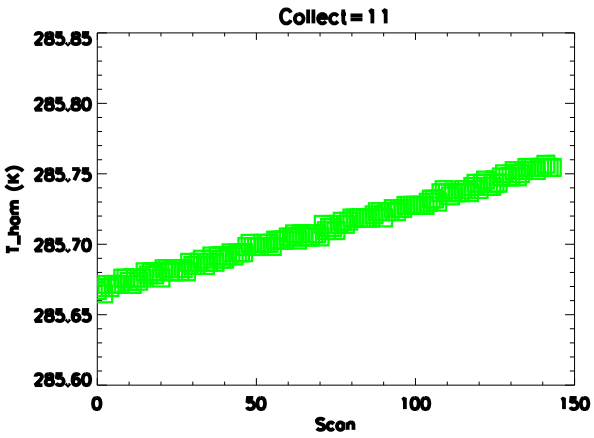

Collect = 12
280.75
280.70
280.65
280.60
T_sh (K)
0
50
100
150
Scan

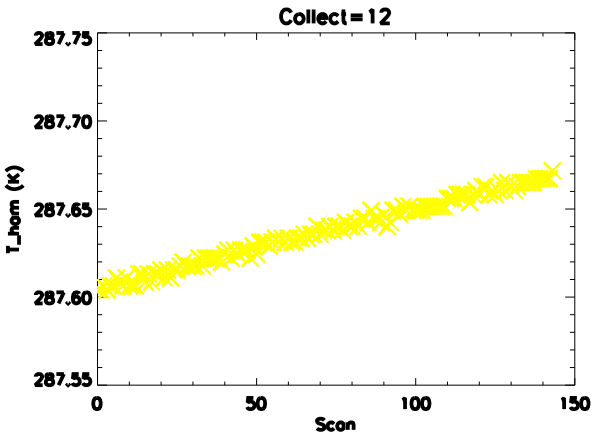
T_ham vs Scan

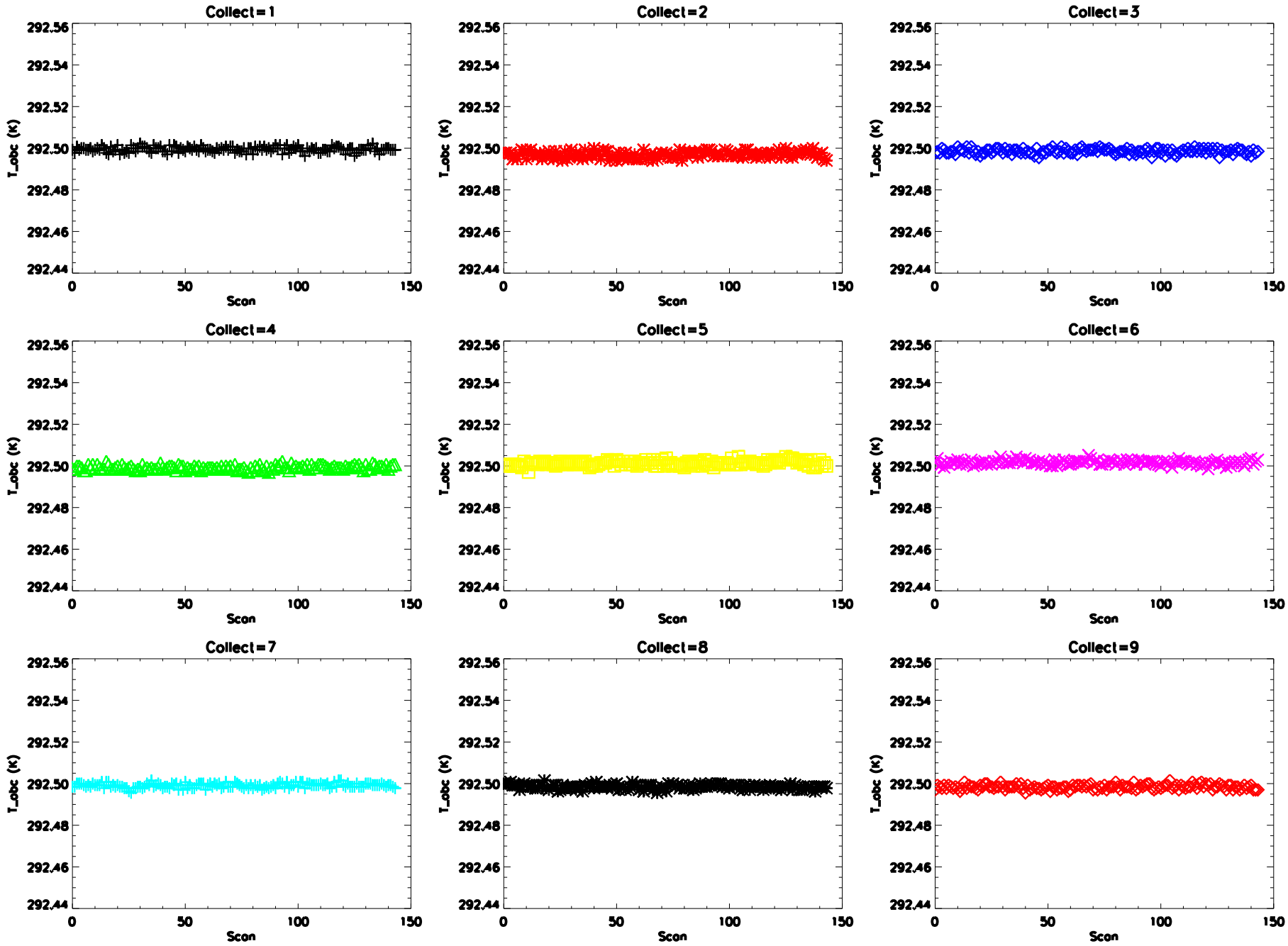

Collect=1
T_ham (K)
258.30
258.25
258.20
258.15
258.10
0
50
100
150
Scan
Collect=2
T_ham (K)
258.95
258.90
258.85
258.80
258.75
0
50
100
150
Scan
Collect=3
T_ham (K)
260.05
260.00
259.95
259.90
259.85
0
50
100
150
Scan
Collect=4
T_ham (K)
261.95
261.90
261.85
261.80
261.75
261.70
0
50
100
150
Scan
Collect=5
T_ham (K)
264.70
264.65
264.60
264.55
264.50
264.45
264.40
0
50
100
150
Scan
Collect=6
T_ham (K)
268.15
268.10
268.05
268.00
267.95
267.90
267.85
0
50
100
150
Scan
Collect=7
T_ham (K)
272.6
272.5
272.4
272.3
272.2
0
50
100
150
Scan
Collect=8
T_ham (K)
276.65
276.60
276.55
276.50
276.45
276.40
276.35
276.30
0
50
100
150
Scan
Collect=9
T_ham (K)
280.45
280.40
280.35
280.30
280.25
280.20
280.15
0
50
100
150
Scan

T_ham vs Scan

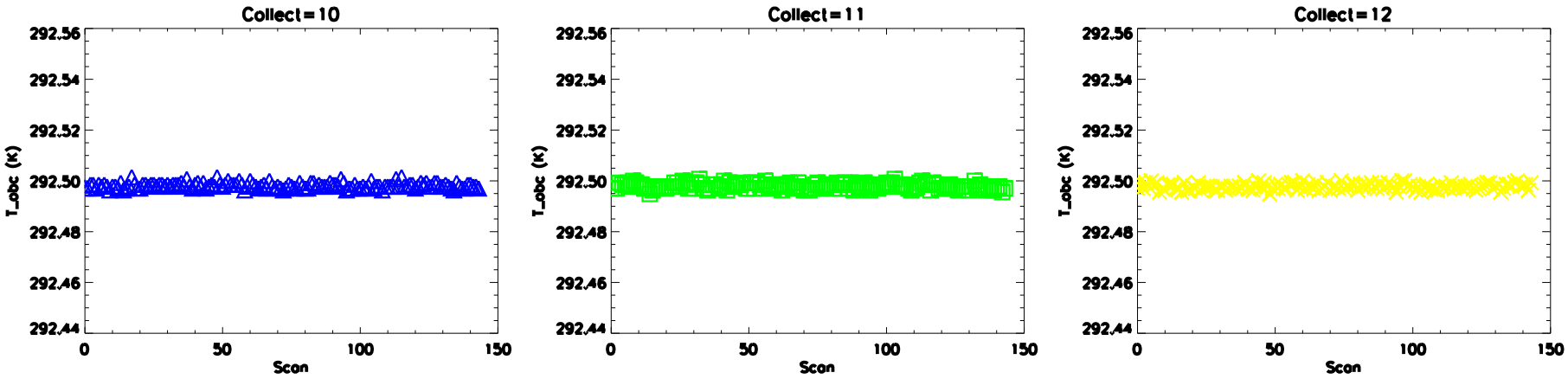

Collect = 10
T_ham (K)
283.35
283.30
283.25
283.20
283.15
283.10
0
50
100
150
Scan

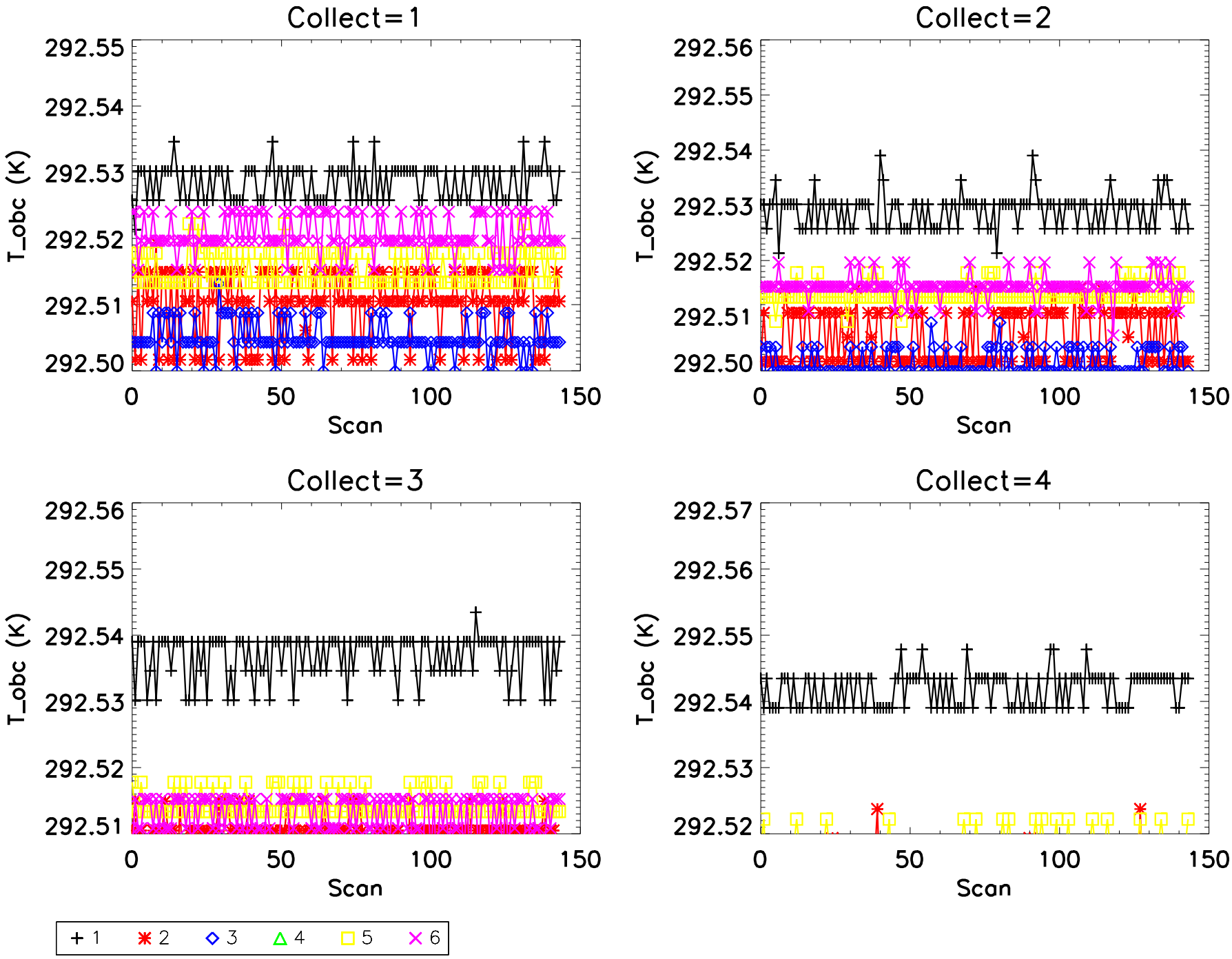

Collect = 11
T_ham (K)
285.85
285.80
285.75
285.70
285.65
285.60
0
50
100
150
Scan

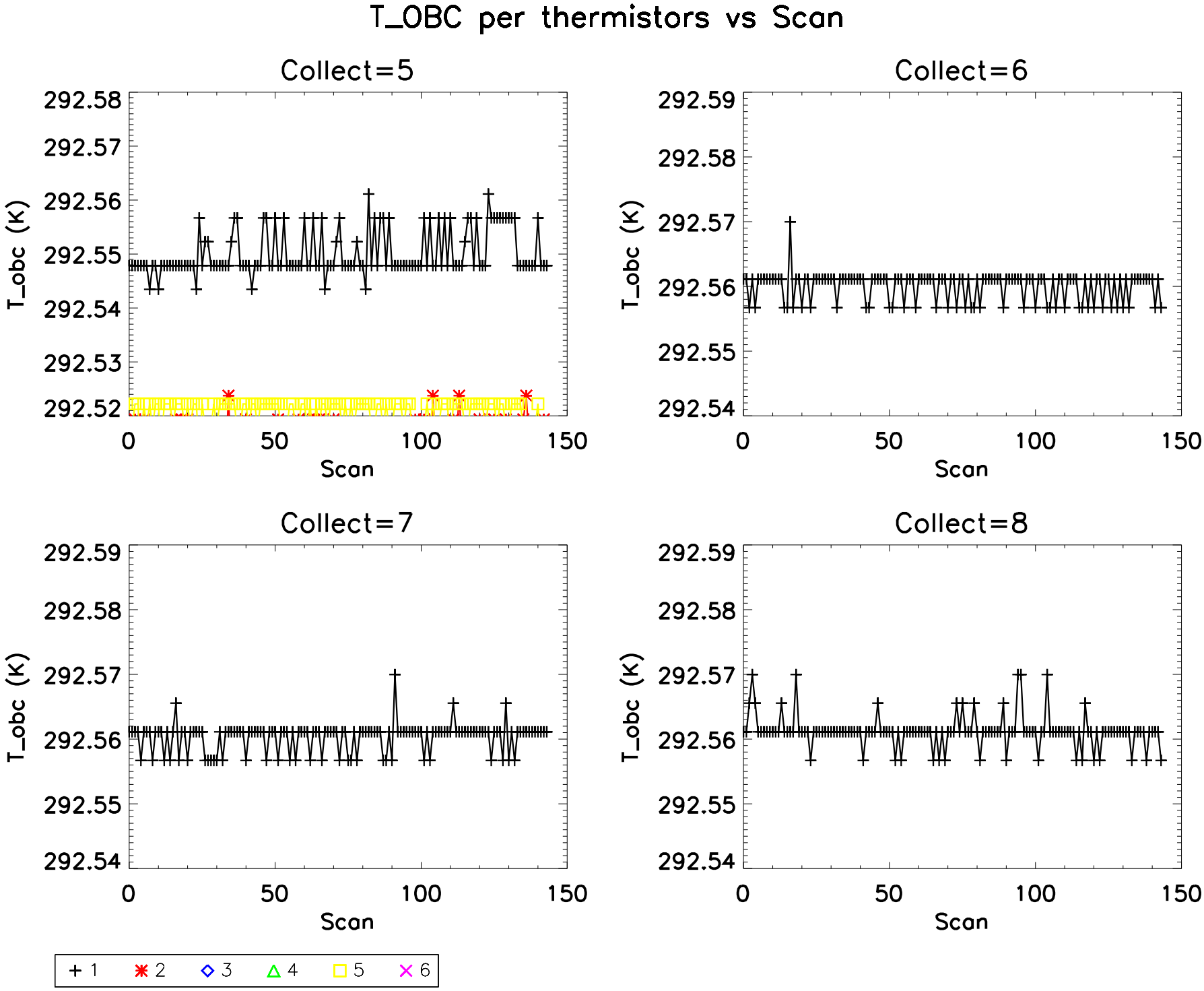

Collect = 12
T_ham (K)
287.75
287.70
287.65
287.60
287.55
0
50
100
150
Scan

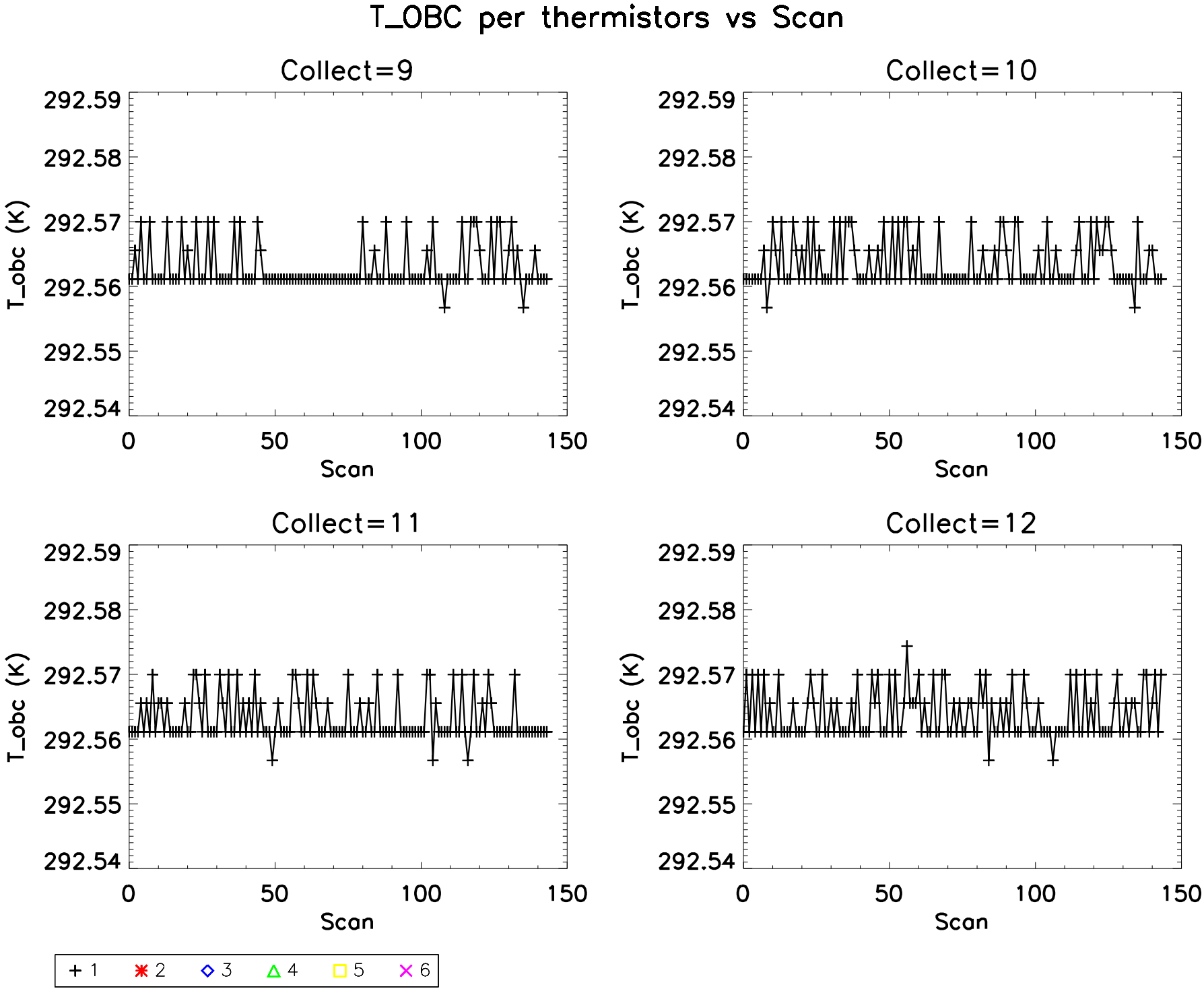

T_obc vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan
292.56
292.54
292.52
292.50
292.48
292.46
292.44
0
50
100
150

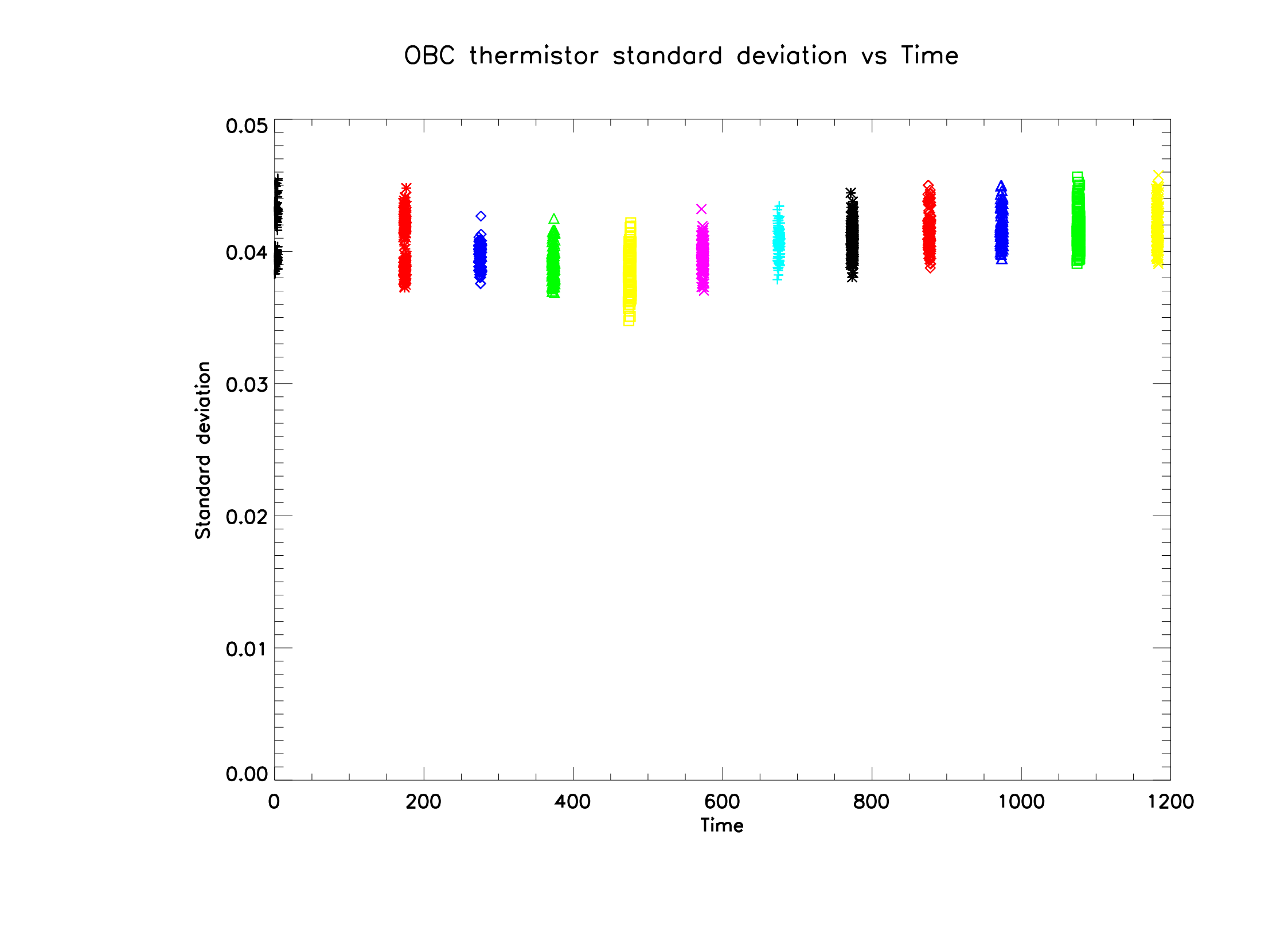
T_obc vs Scan

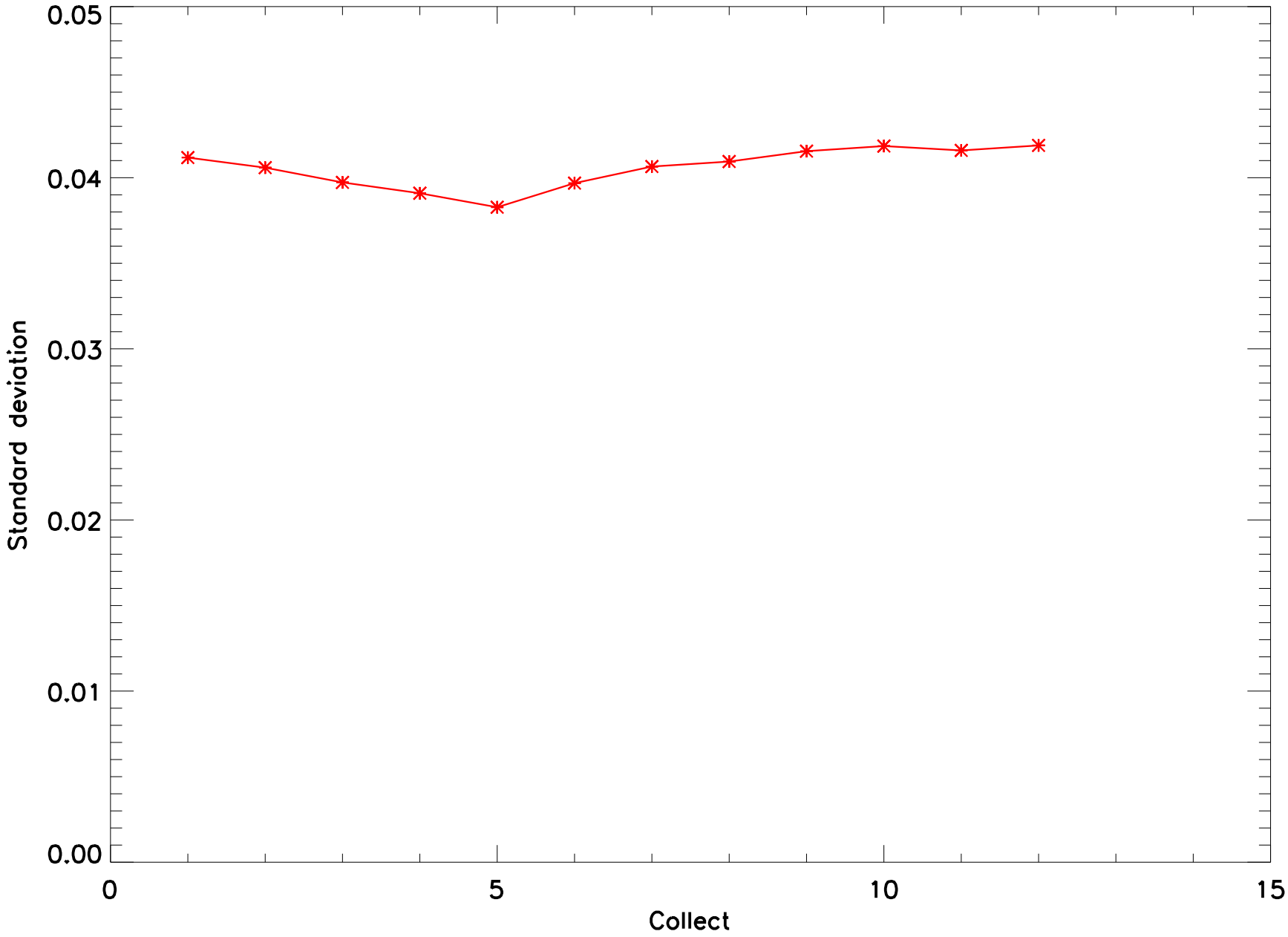

Collect = 10
Collect = 11
Collect = 12
T_obc (K)
Scan
292.56
292.54
292.52
292.50
292.48
292.46
292.44
0
50
100
150

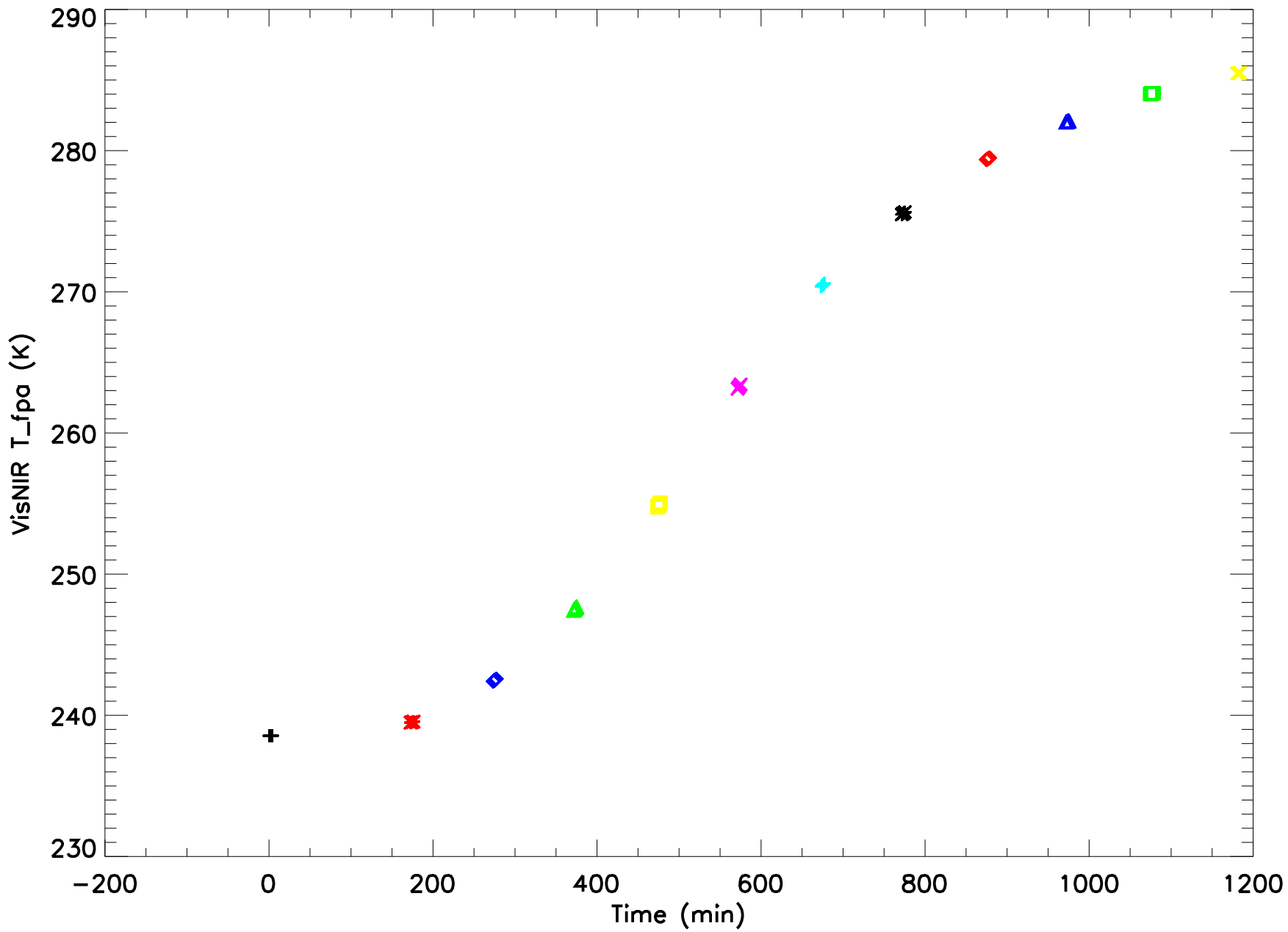

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
Scan
292.55
292.54
292.53
292.52
292.51
292.50
292.56
292.57
0
50
100
150
1
2
3
4
5
6

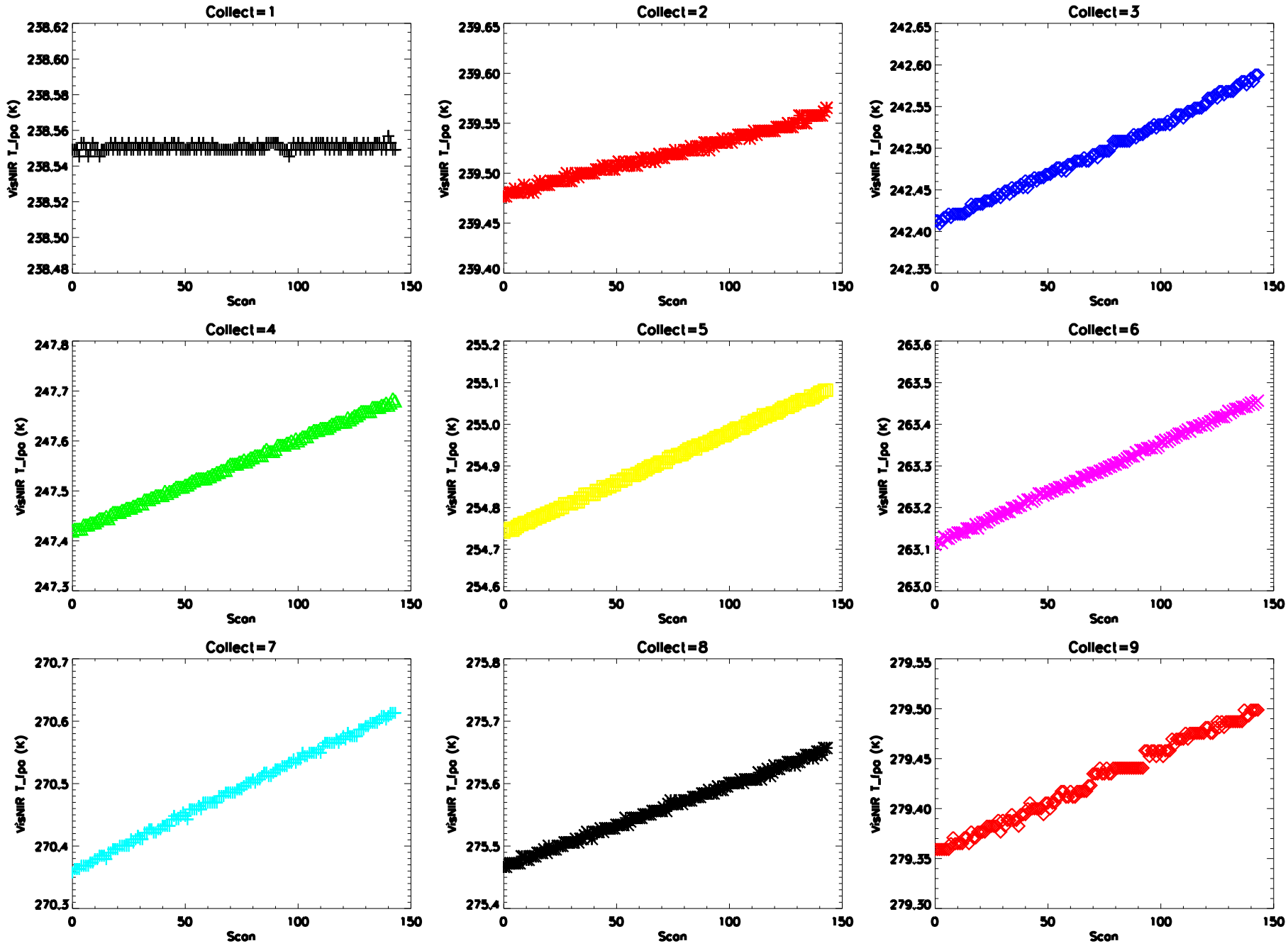

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
Scan
292.58
292.57
292.56
292.55
292.54
292.53
292.52
292.59
0
50
100
150
1
2
3
4
5
6


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

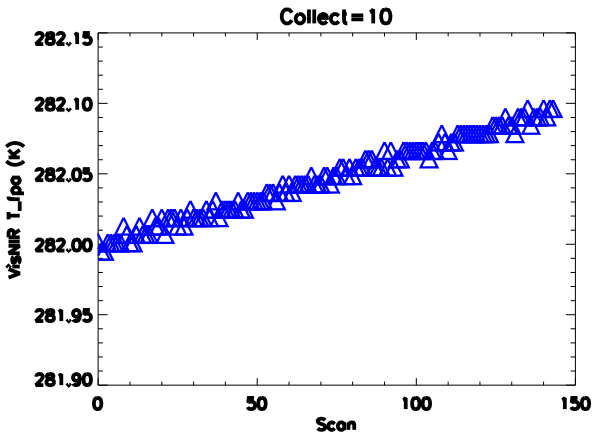

OBC thermistor standard deviation vs Time
Standard deviation
0.05
0.04
0.03
0.02
0.01
0.00
0
200
400
600
800
1000
1200
Time

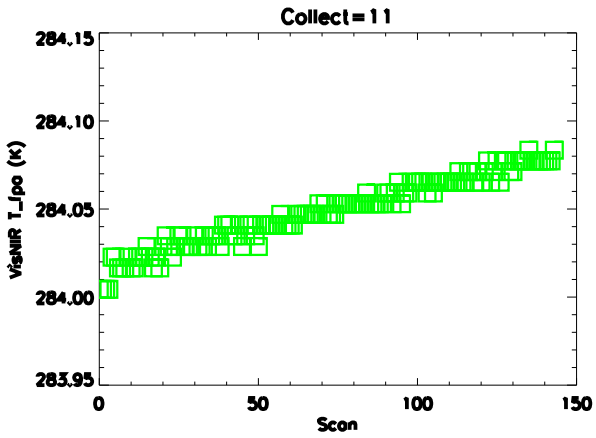

OBC thermistor standard deviation vs Collect
Standard deviation
0.05
0.04
0.03
0.02
0.01
0.00
0
5
10
15
Collect

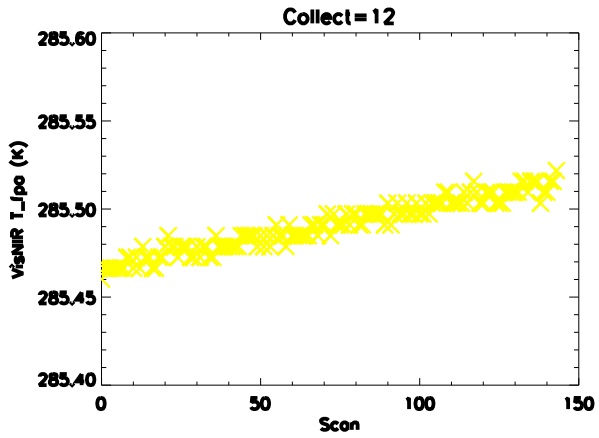

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
290
280
270
260
250
240
230
−200
0
200
400
600
800
1000
1200
Time (min)

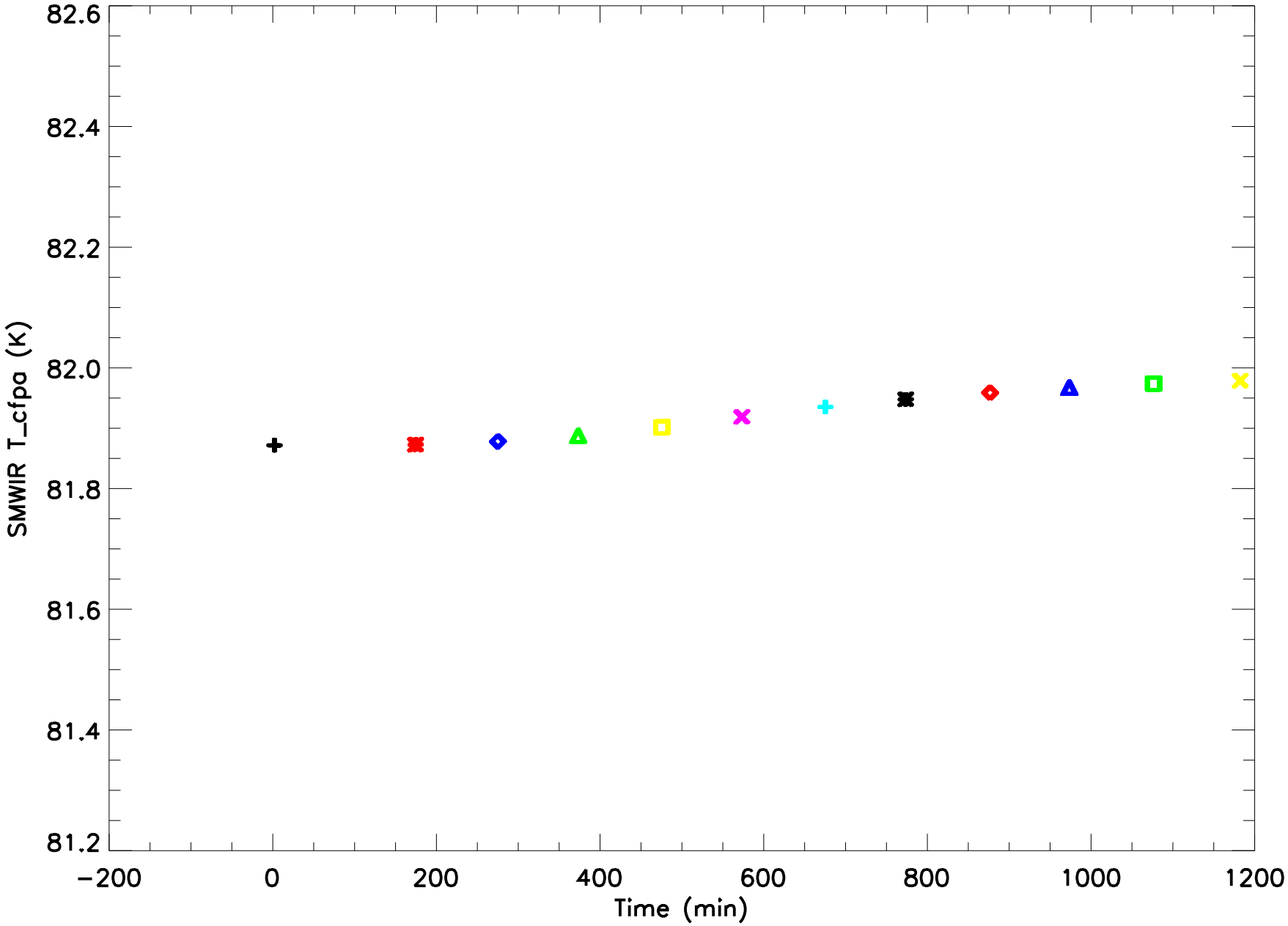

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_lpo (K)
Scan

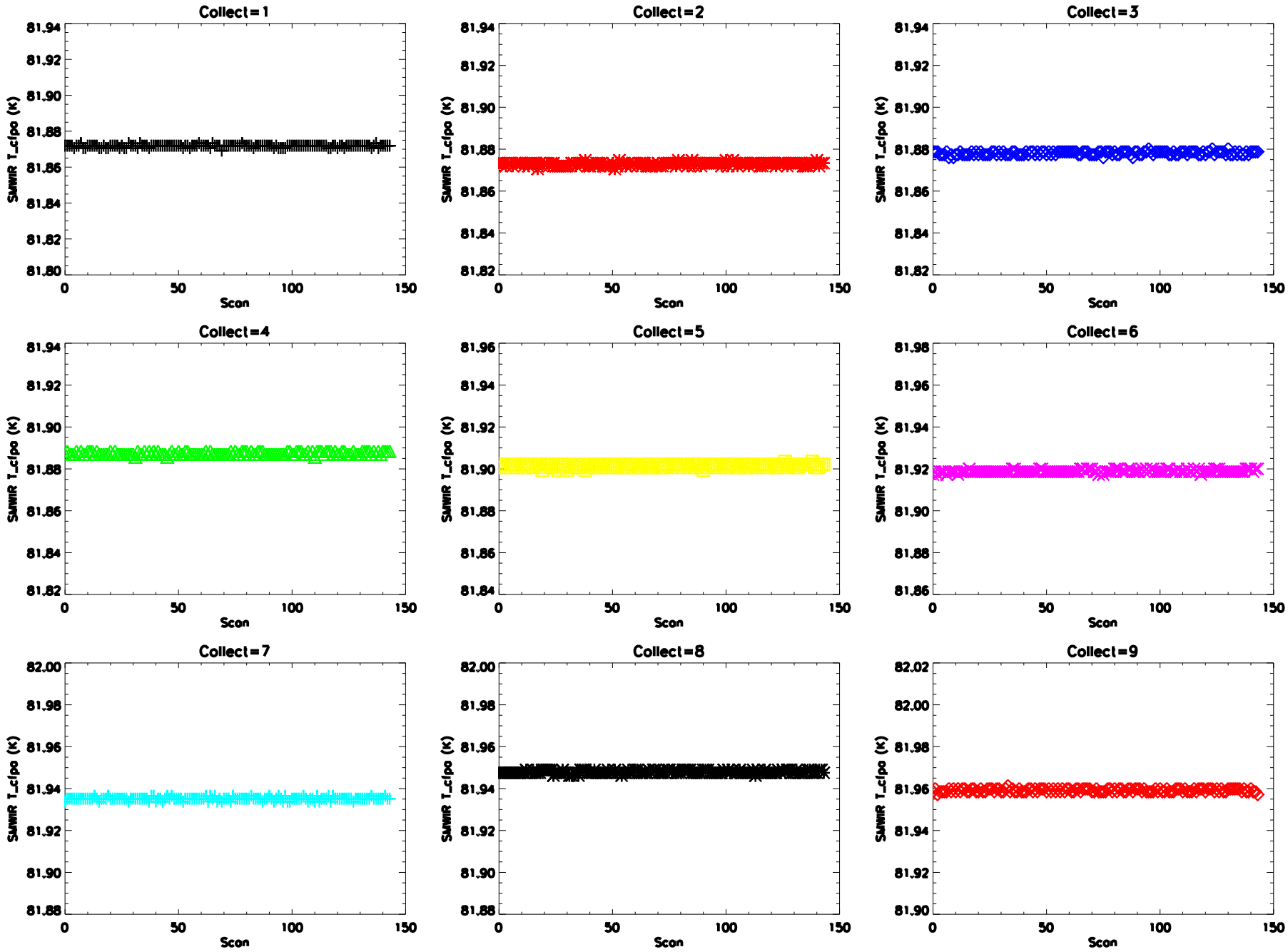
VisNIR T_fpa vs Scan



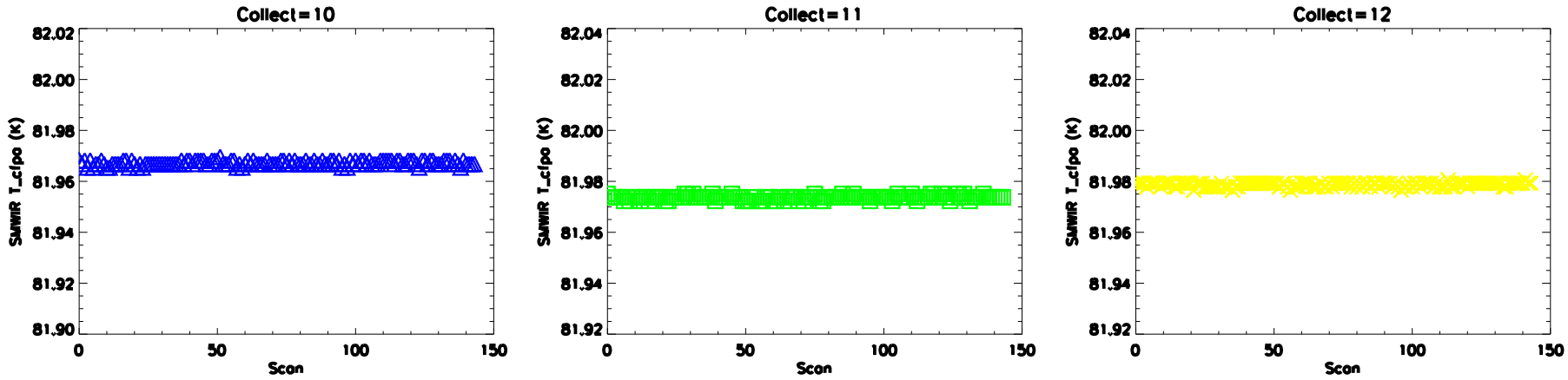


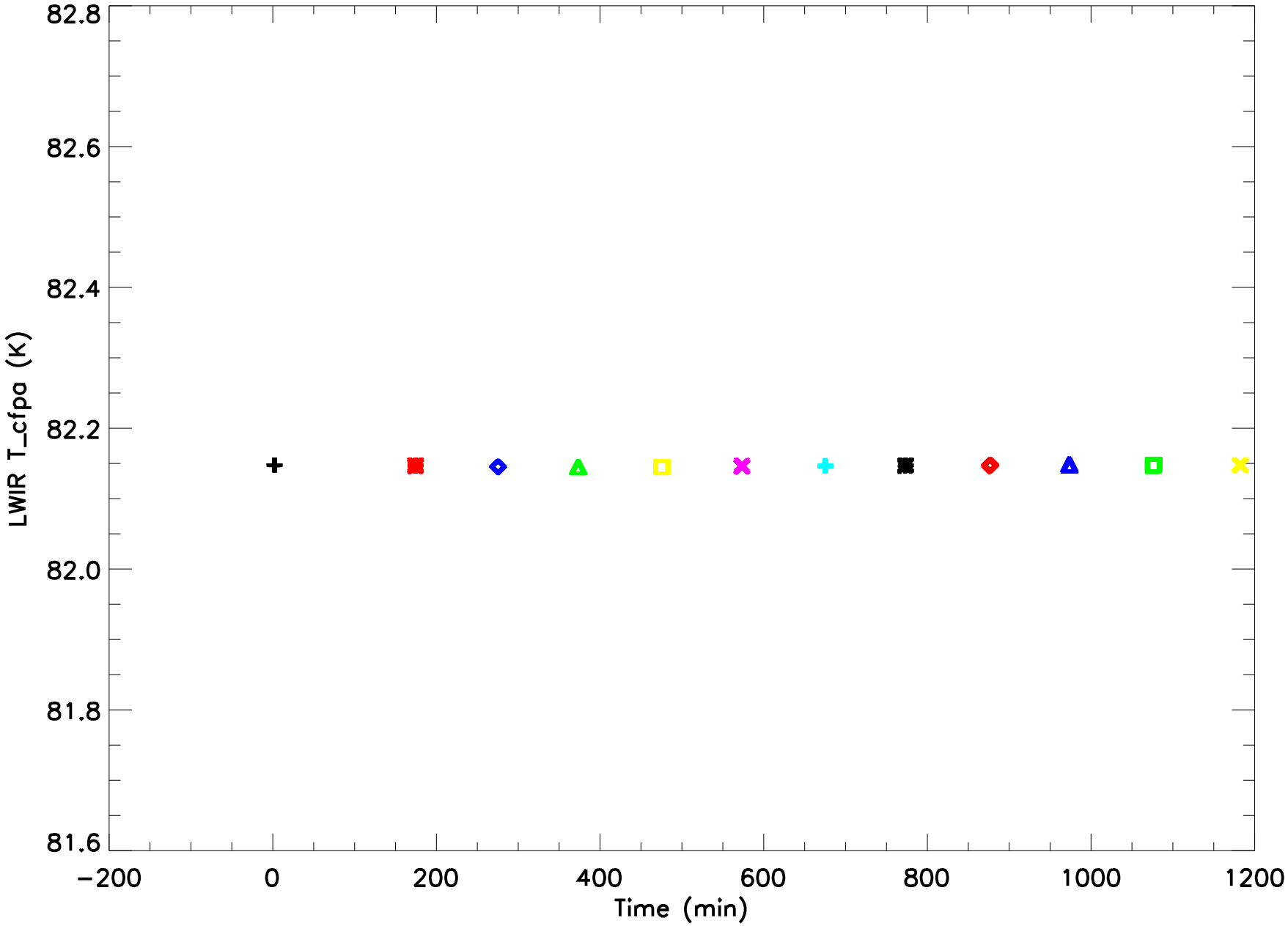


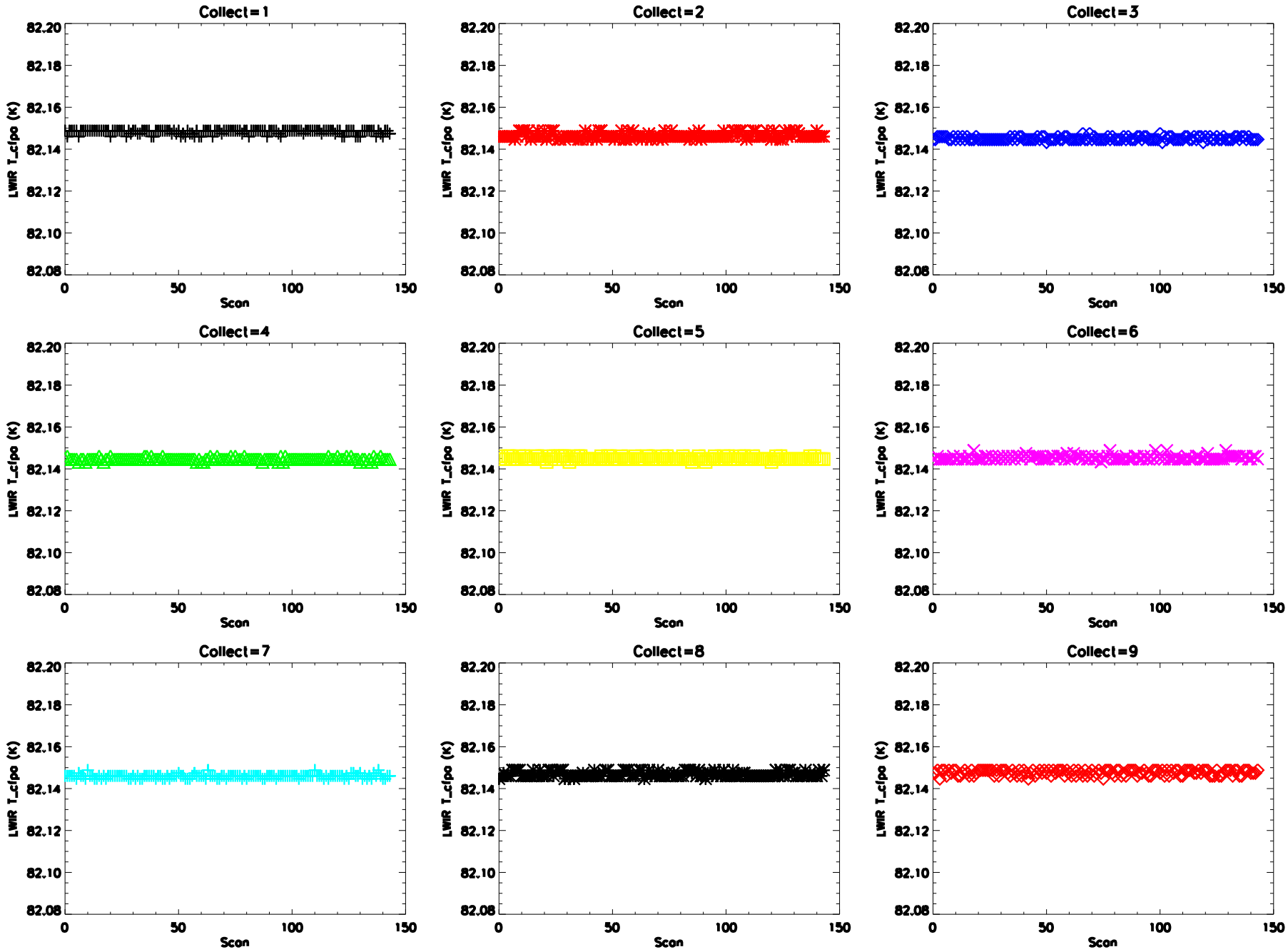

SMWIR T_cfpa vs Time
SMWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
81.2
−200
0
200
400
600
800
1000
1200
Time (min)


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan
0
50
100
150
81.80
81.82
81.84
81.86
81.88
81.90
81.92
81.94
81.96
81.98
82.00
82.02

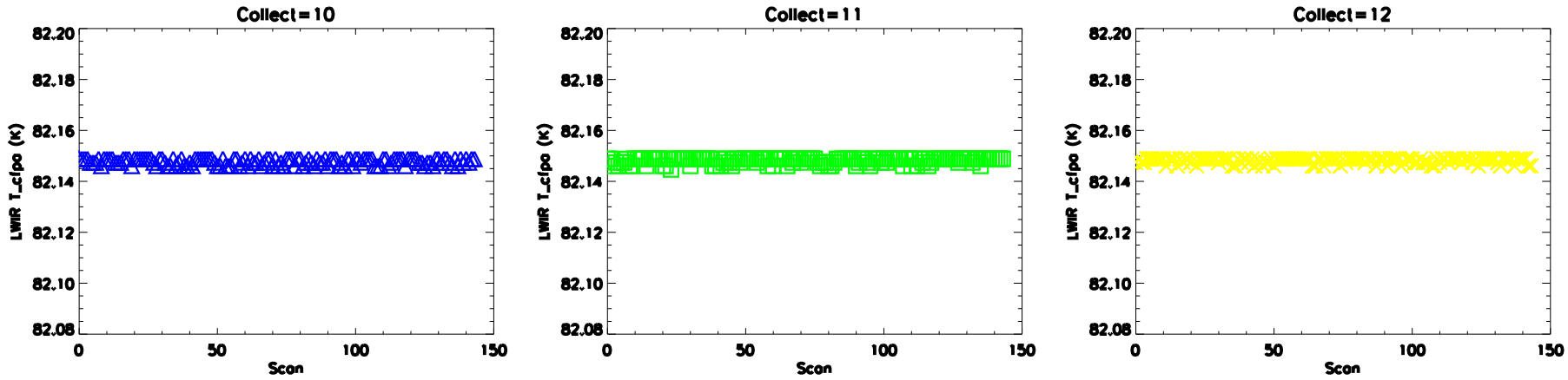
SMWIR T_cfpa vs Scan

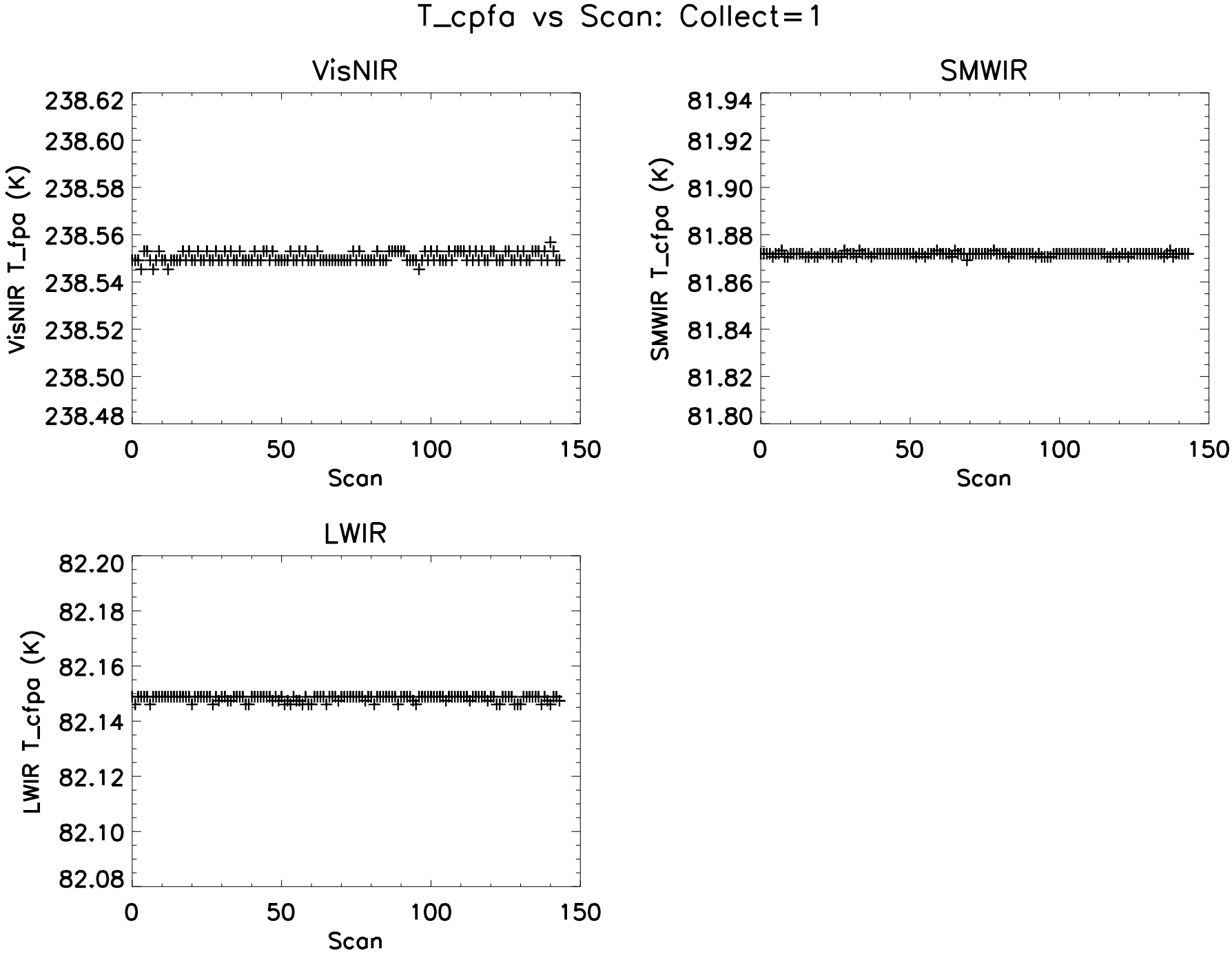


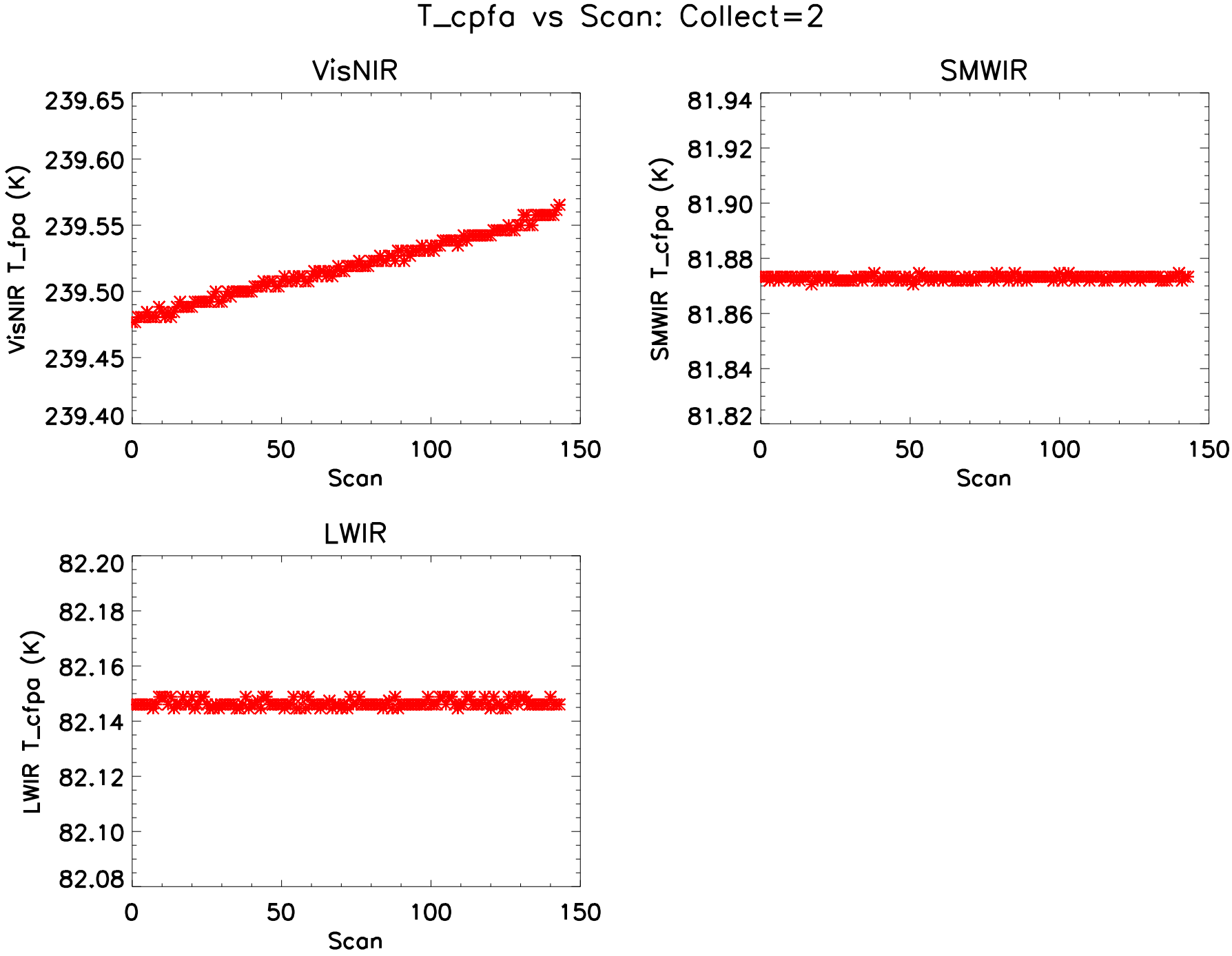

LWIR T_cfpa vs Time
LWIR T_cfpa (K)
82.8
82.6
82.4
82.2
82.0
81.8
81.6
−200
0
200
400
600
800
1000
1200
Time (min)

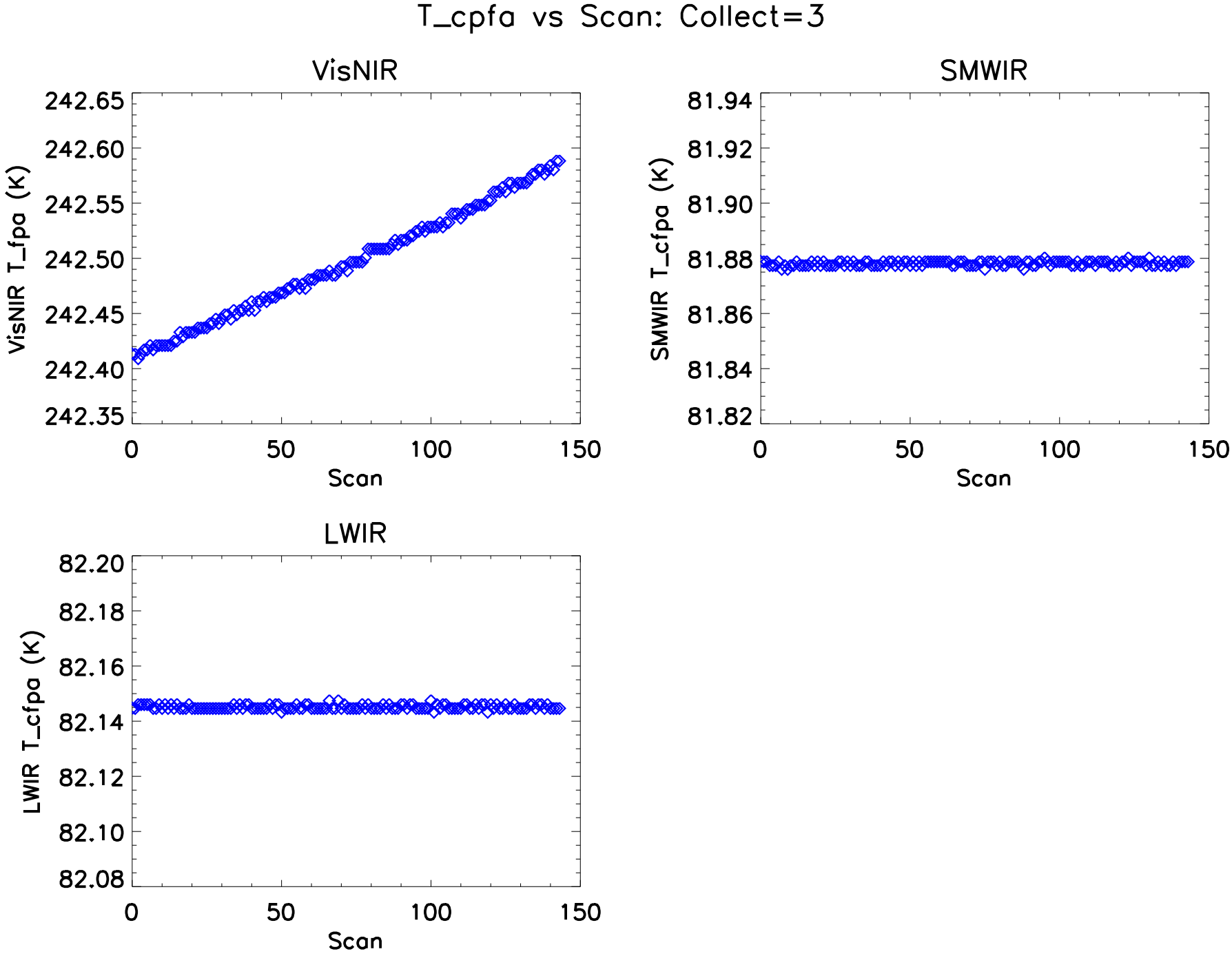

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_cfpa (K)
Scan
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150

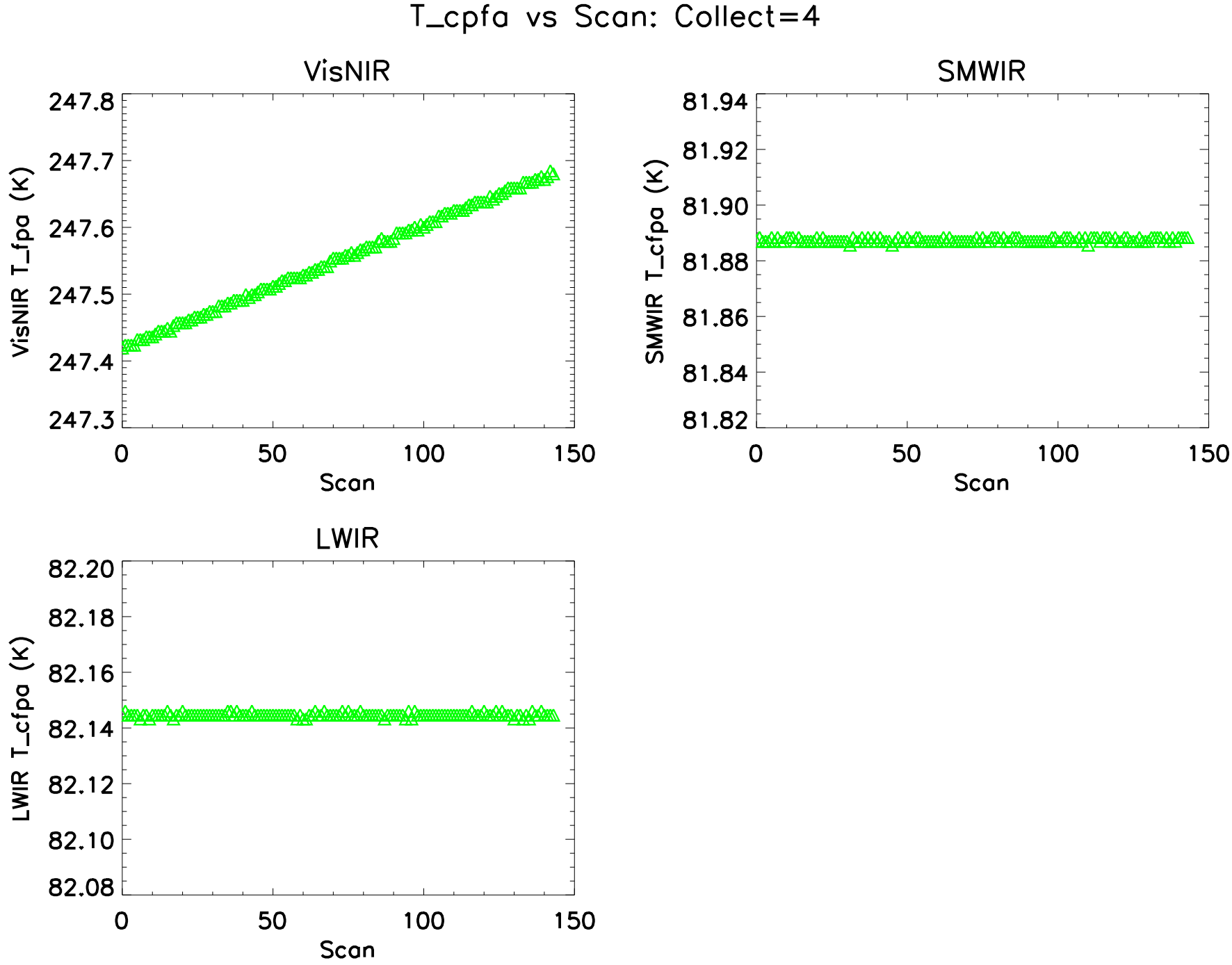
LWIR T_cfpa vs Scan

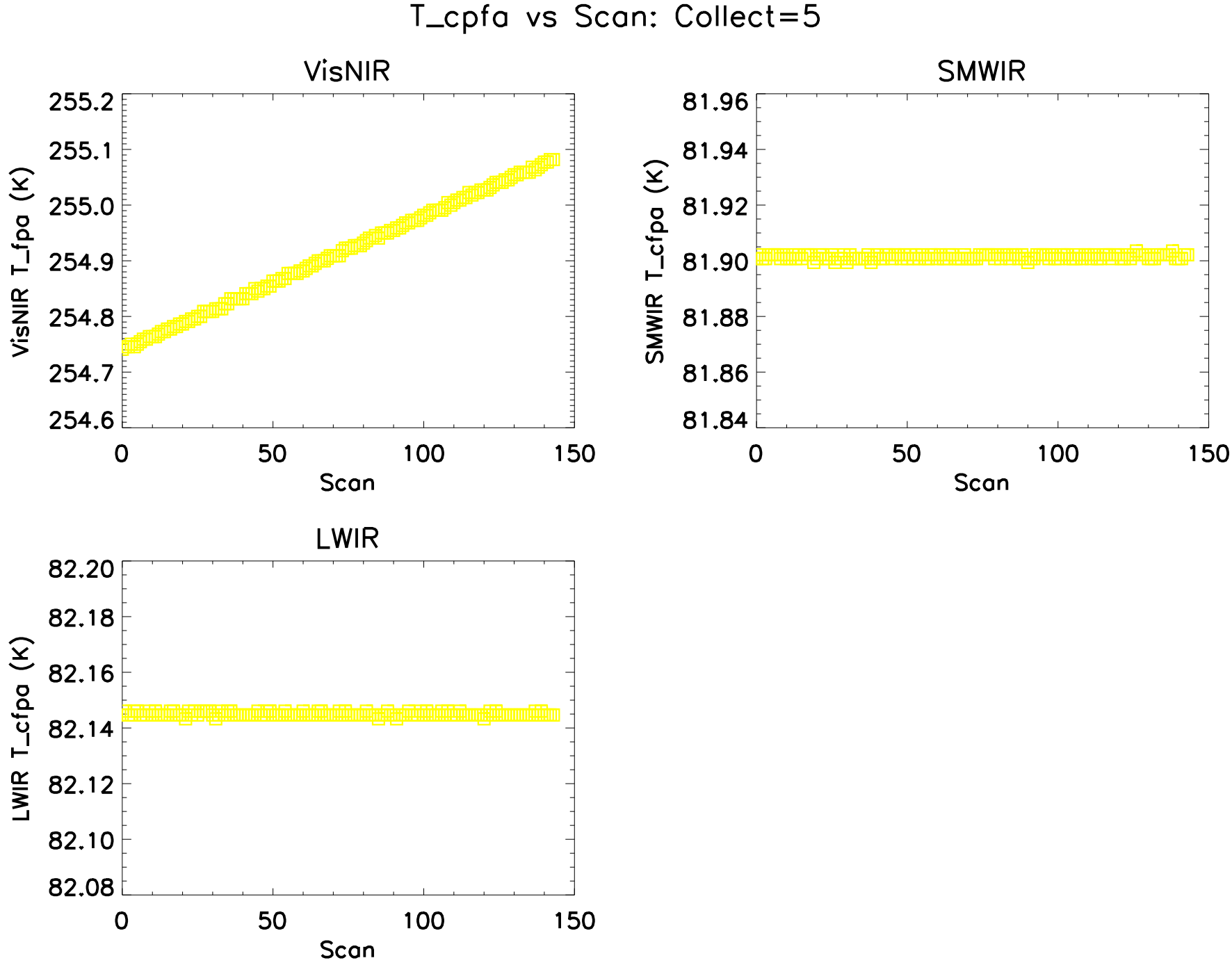


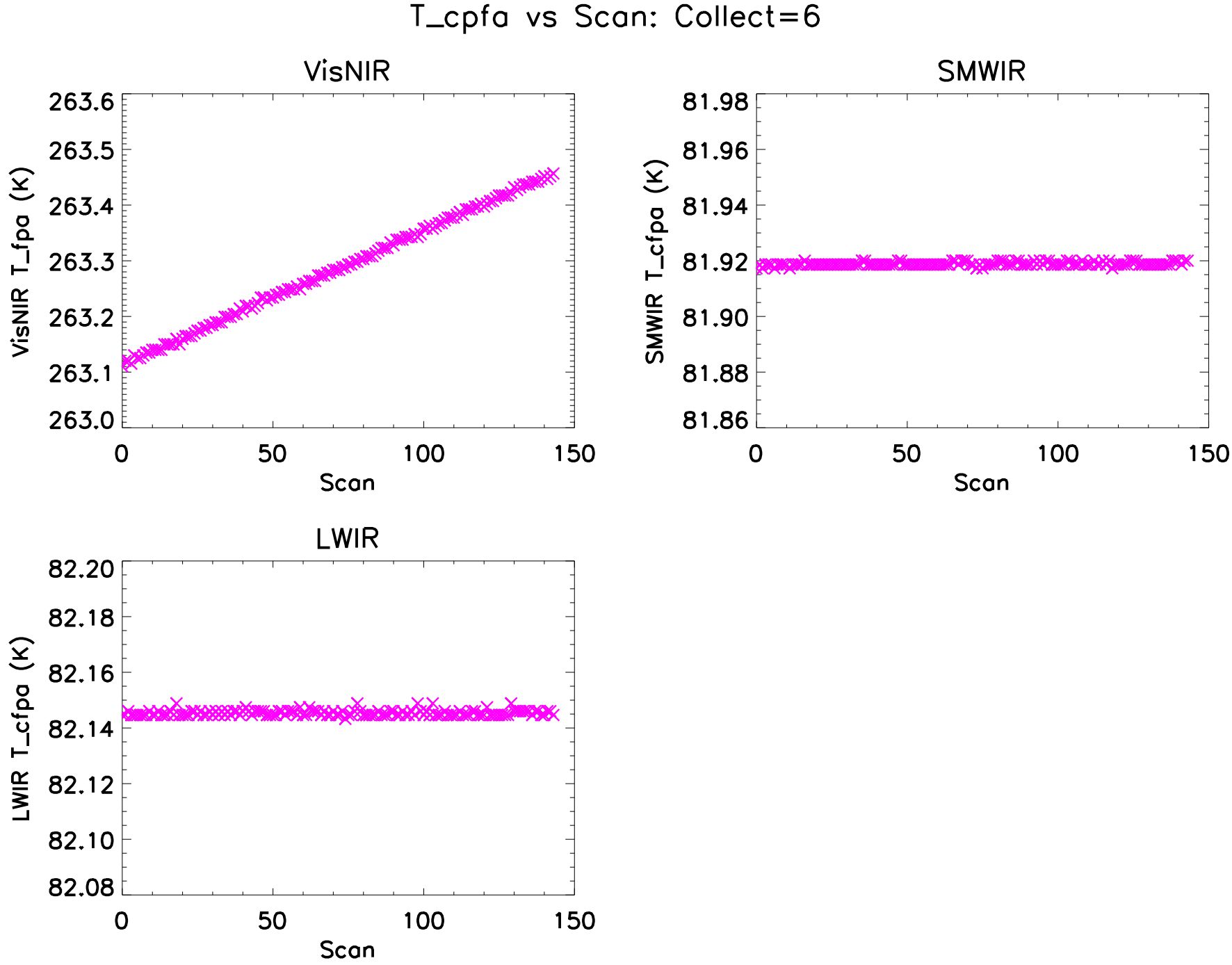

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
238.62
238.60
238.58
238.56
238.54
238.52
238.50
238.48
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
81.80
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

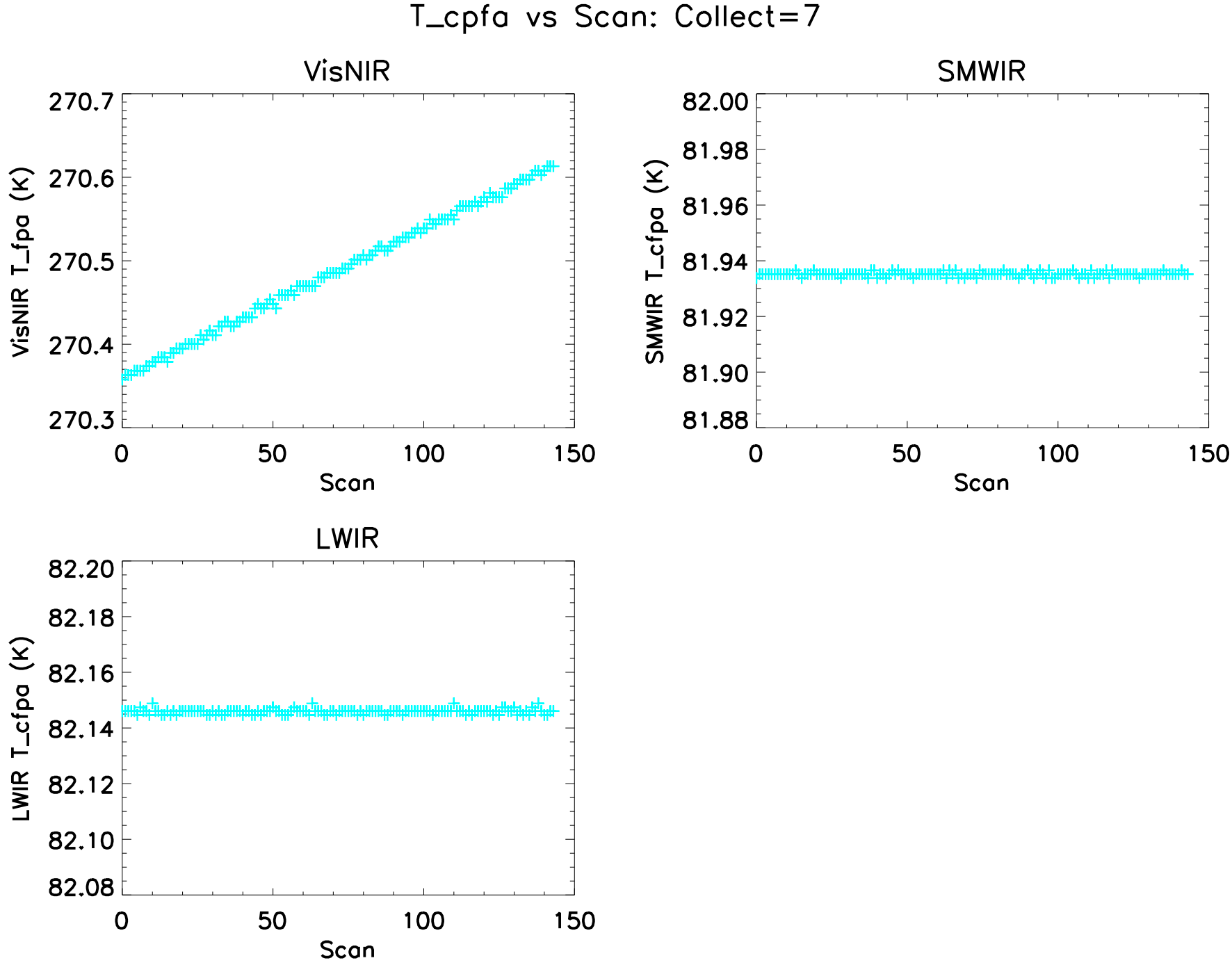

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
239.65
239.60
239.55
239.50
239.45
239.40
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

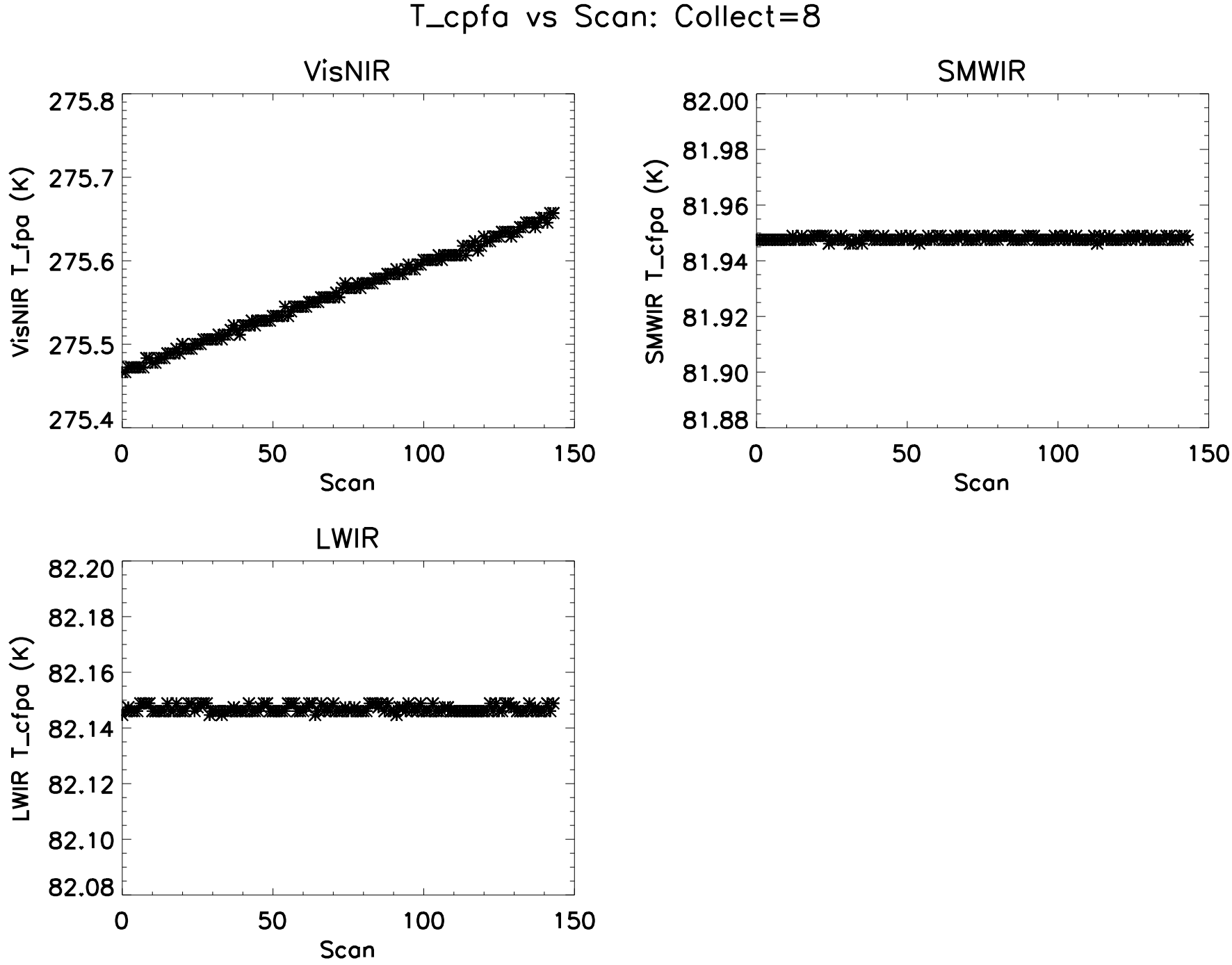

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
242.65
242.60
242.55
242.50
242.45
242.40
242.35
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

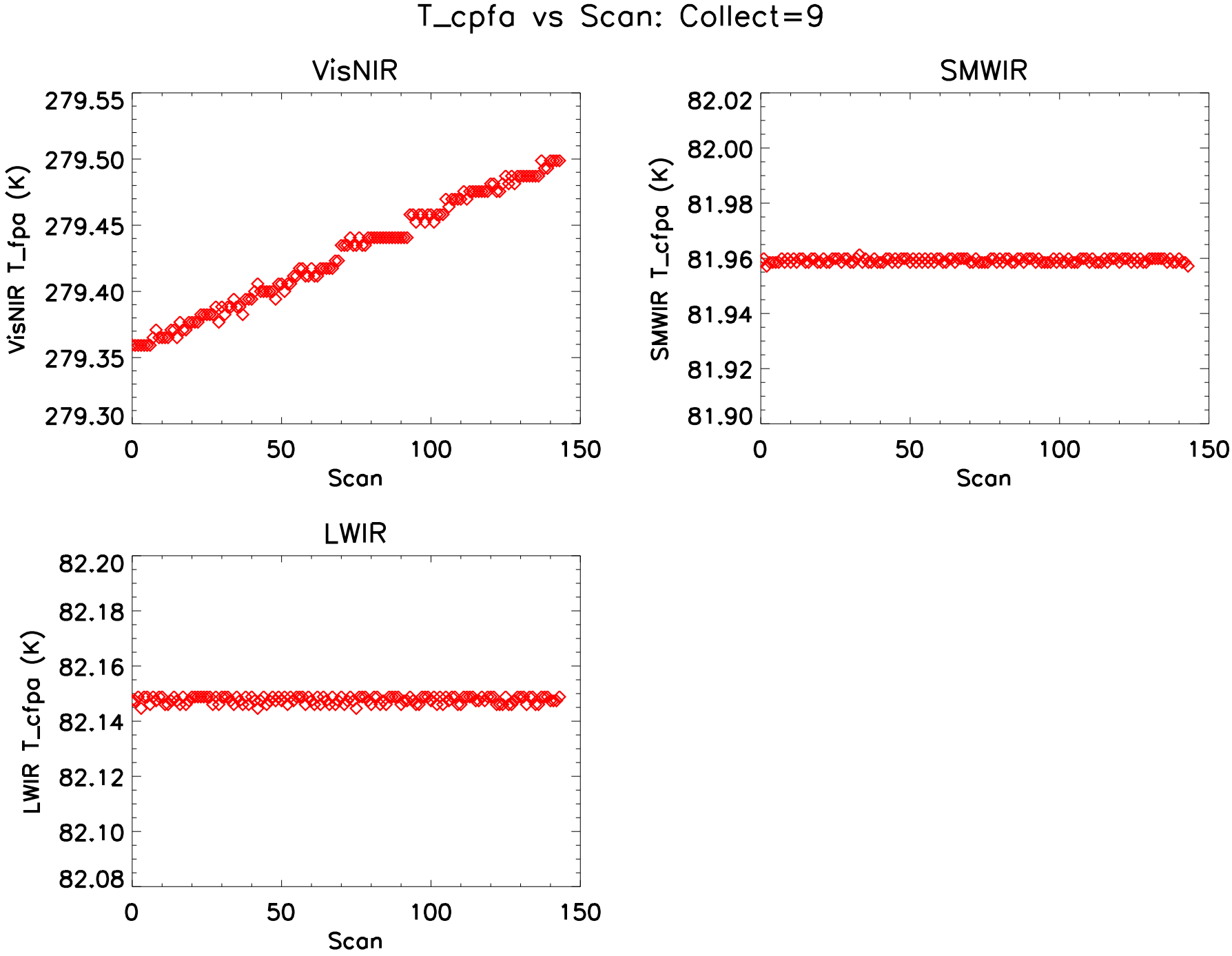

T_cpfa vs Scan: Collect=4
VisNIR
VisNIR T_fpa (K)
247.8
247.7
247.6
247.5
247.4
247.3
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.94
81.92
81.90
81.88
81.86
81.84
81.82
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

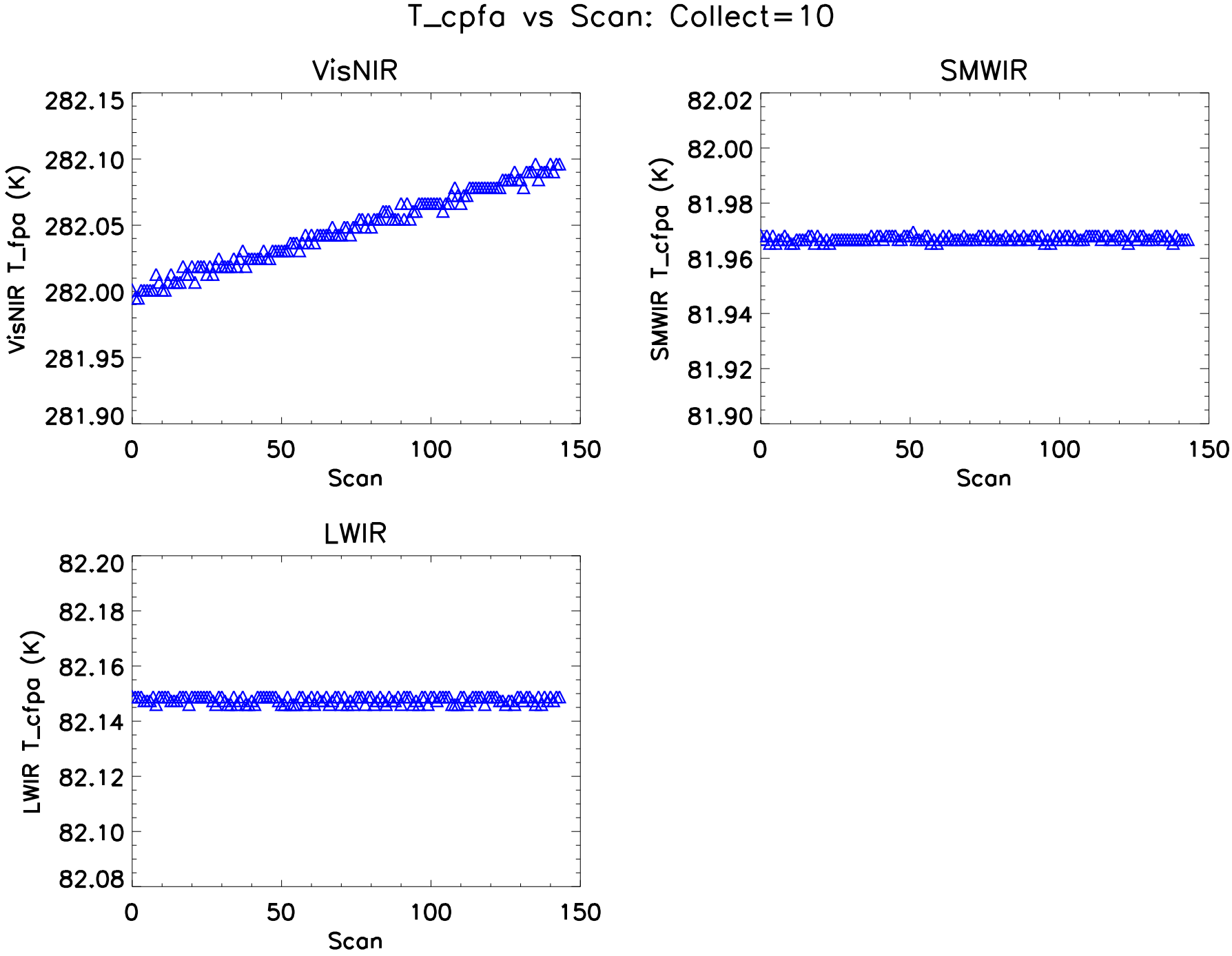

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
255.2
255.1
255.0
254.9
254.8
254.7
254.6
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.96
81.94
81.92
81.90
81.88
81.86
81.84
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

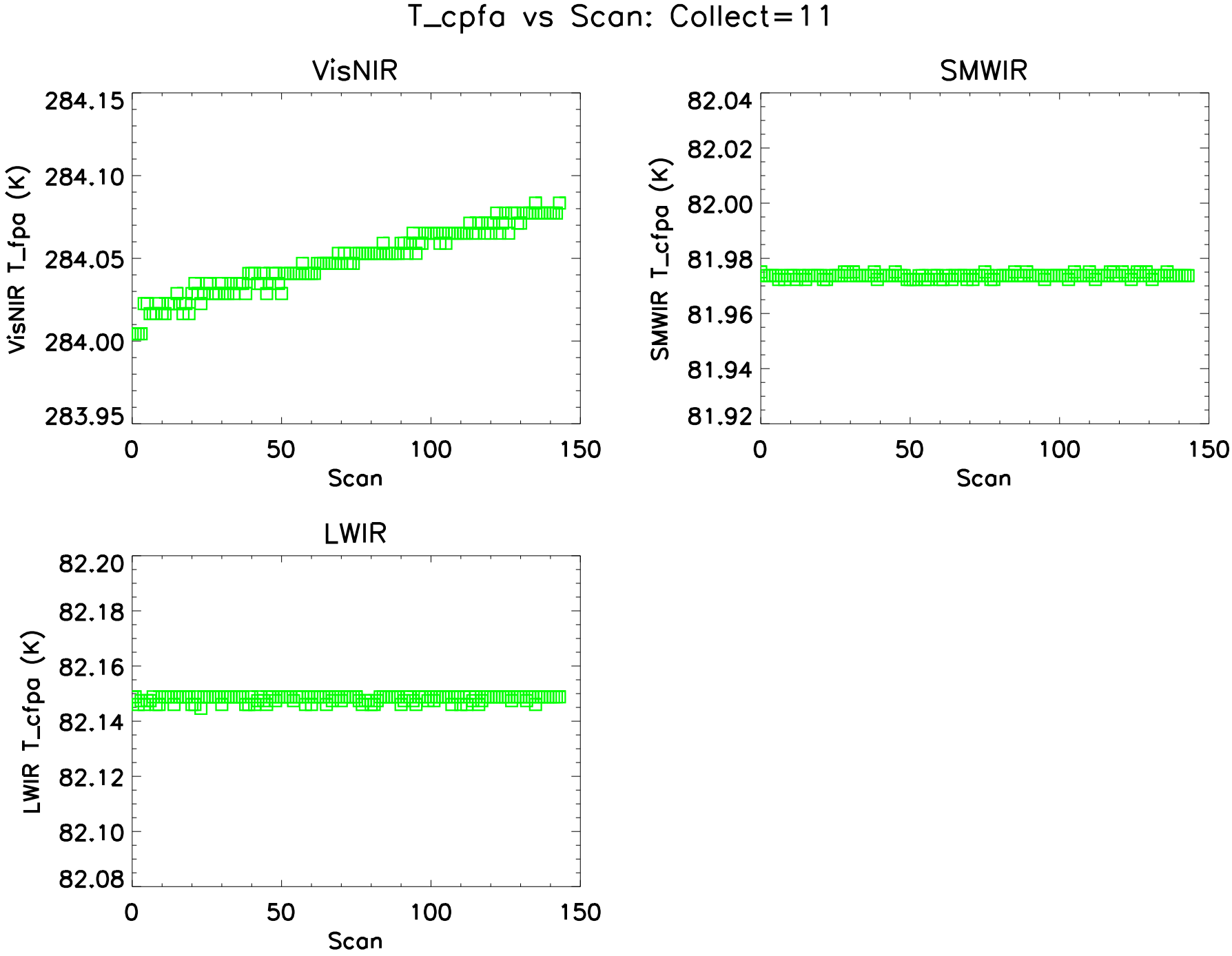

T_cpfa vs Scan: Collect=6
VisNIR
VisNIR T_fpa (K)
263.6
263.5
263.4
263.3
263.2
263.1
263.0
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
81.98
81.96
81.94
81.92
81.90
81.88
81.86
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

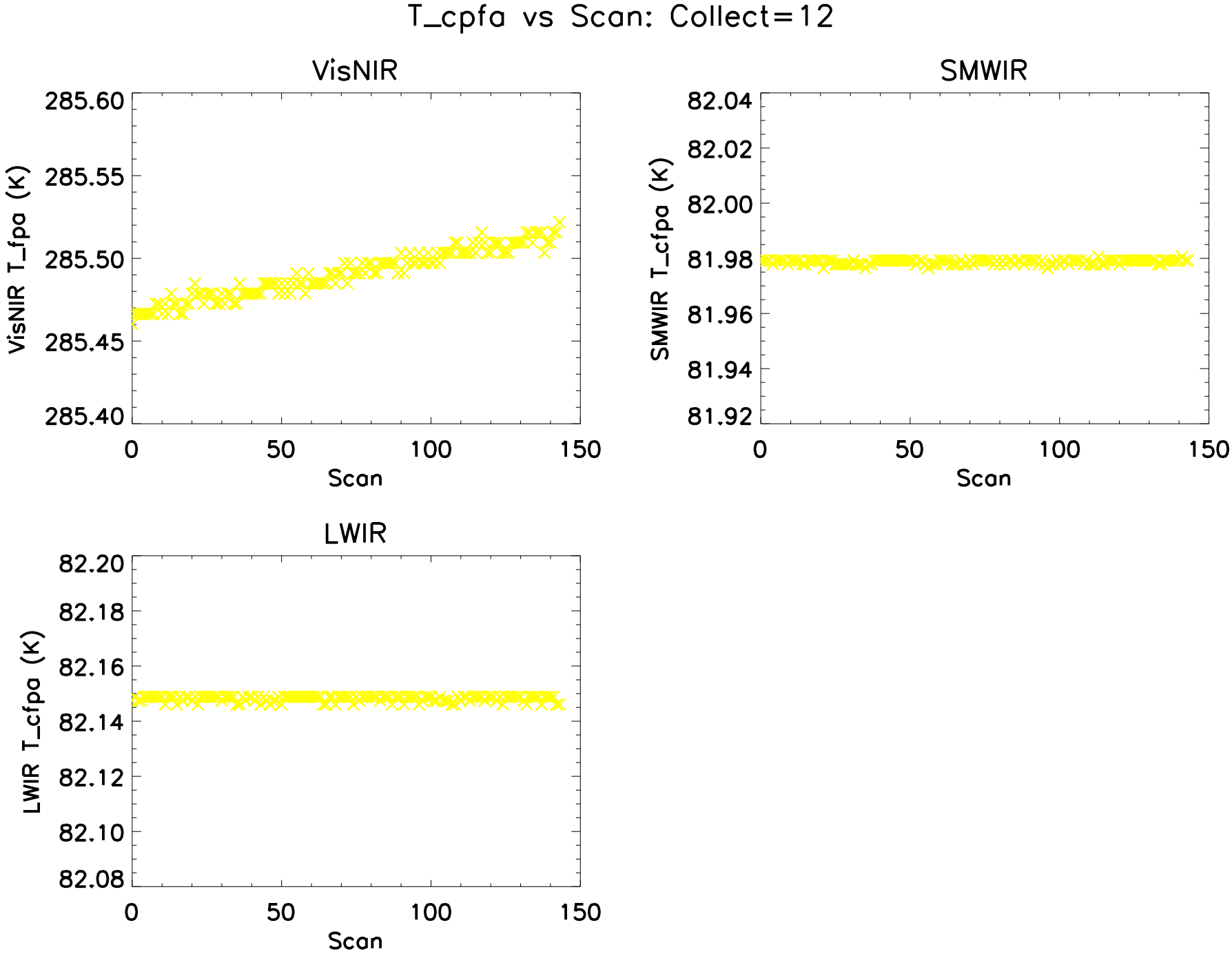

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
270.7
270.6
270.5
270.4
270.3
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.00
81.98
81.96
81.94
81.92
81.90
81.88
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

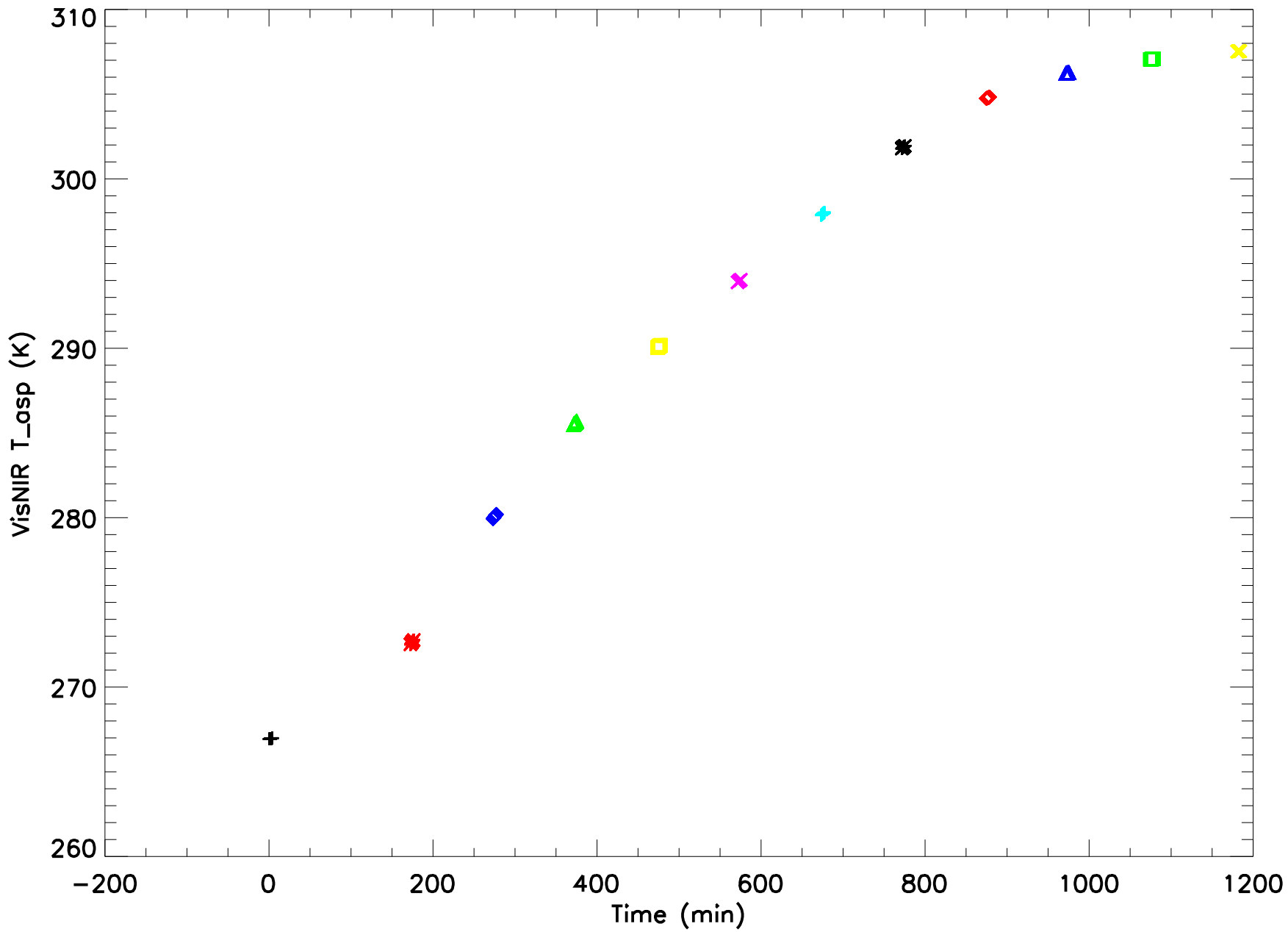

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
275.8
275.7
275.6
275.5
275.4
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.00
81.98
81.96
81.94
81.92
81.90
81.88
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

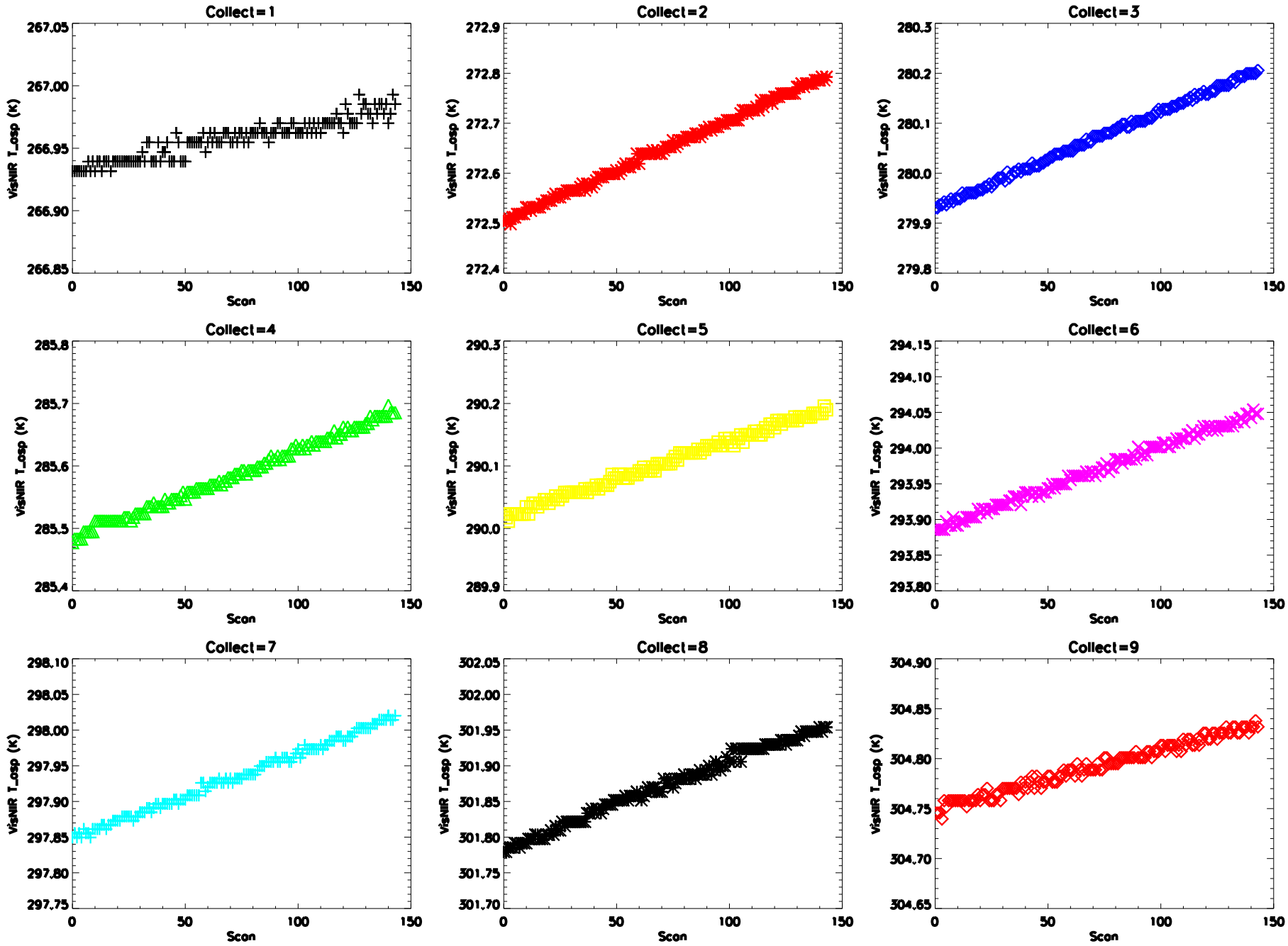

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
279.55
279.50
279.45
279.40
279.35
279.30
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.02
82.00
81.98
81.96
81.94
81.92
81.90
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan


T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
282.15
282.10
282.05
282.00
281.95
281.90
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

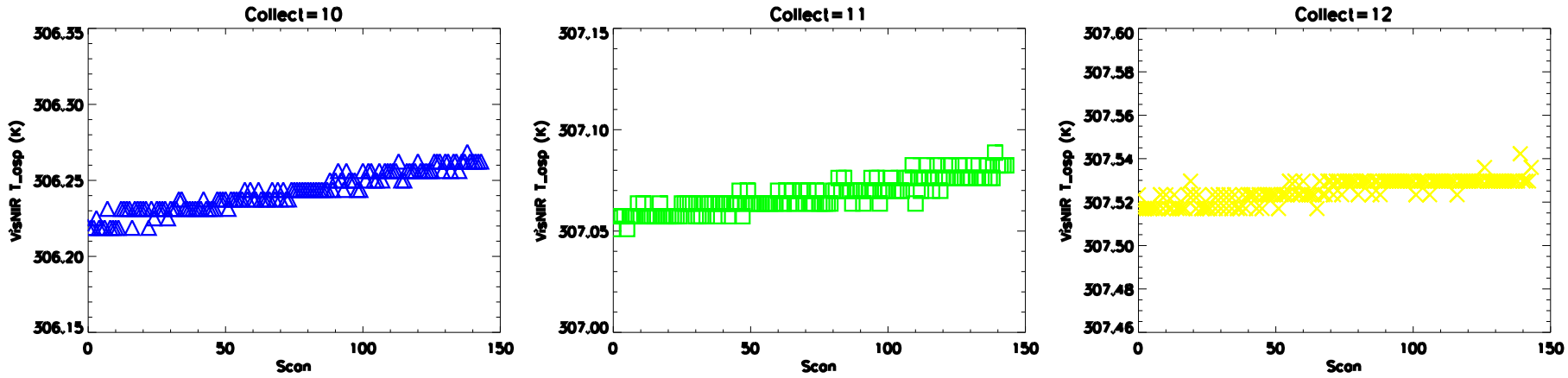

T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
284.15
284.10
284.05
284.00
283.95
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

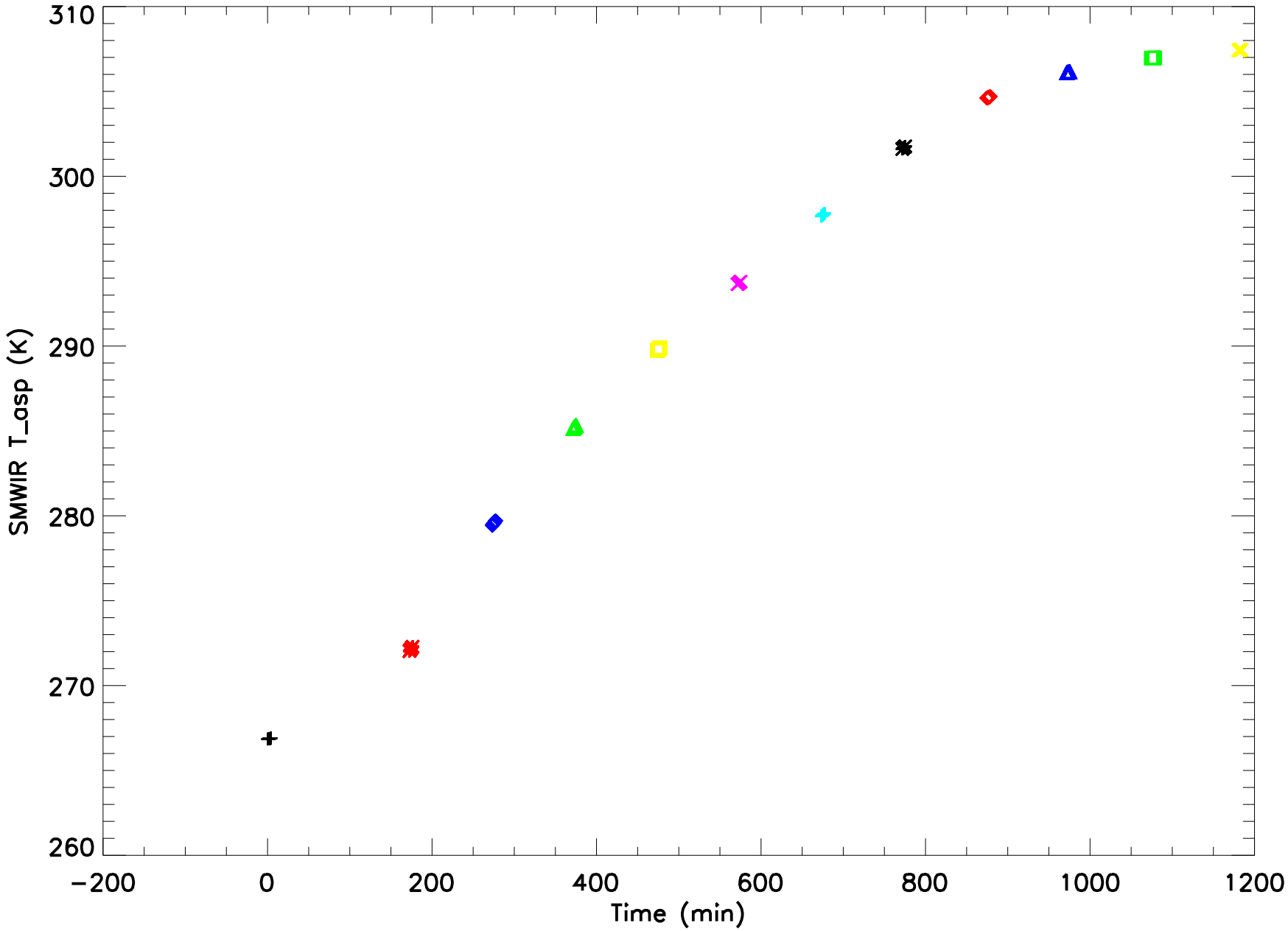

T_cpfa vs Scan: Collect=12
VisNIR
VisNIR T_fpa (K)
285.60
285.55
285.50
285.45
285.40
0
50
100
150
Scan
SMWIR
SMWIR T_cfpa (K)
82.04
82.02
82.00
81.98
81.96
81.94
81.92
0
50
100
150
Scan
LWIR
LWIR T_cfpa (K)
82.20
82.18
82.16
82.14
82.12
82.10
82.08
0
50
100
150
Scan

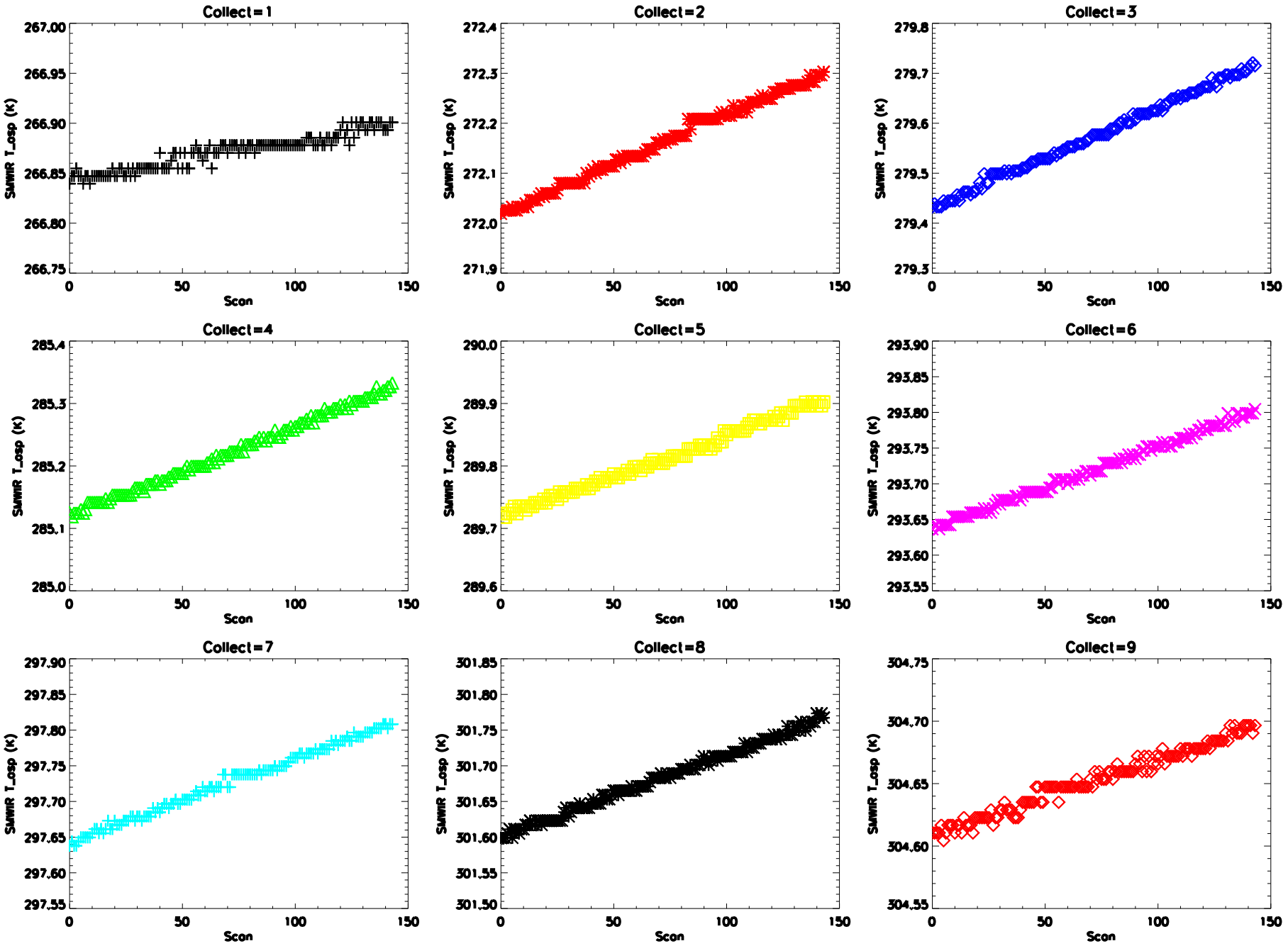

VisNIR T_asp vs Time
VisNIR T_asp (K)
310
300
290
280
270
260
−200
0
200
400
600
800
1000
1200
Time (min)


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

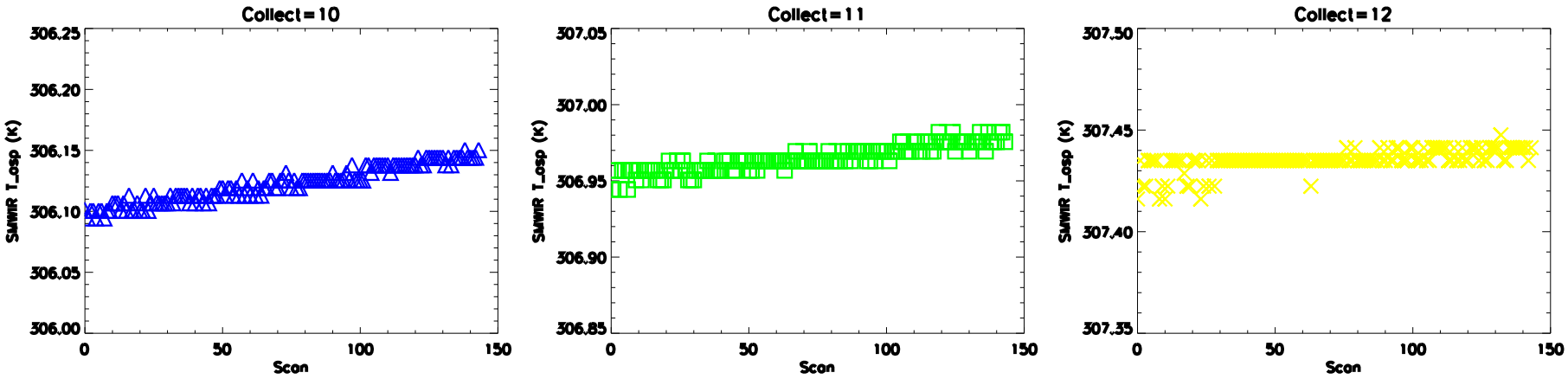
VisNIR T_asp vs Scan

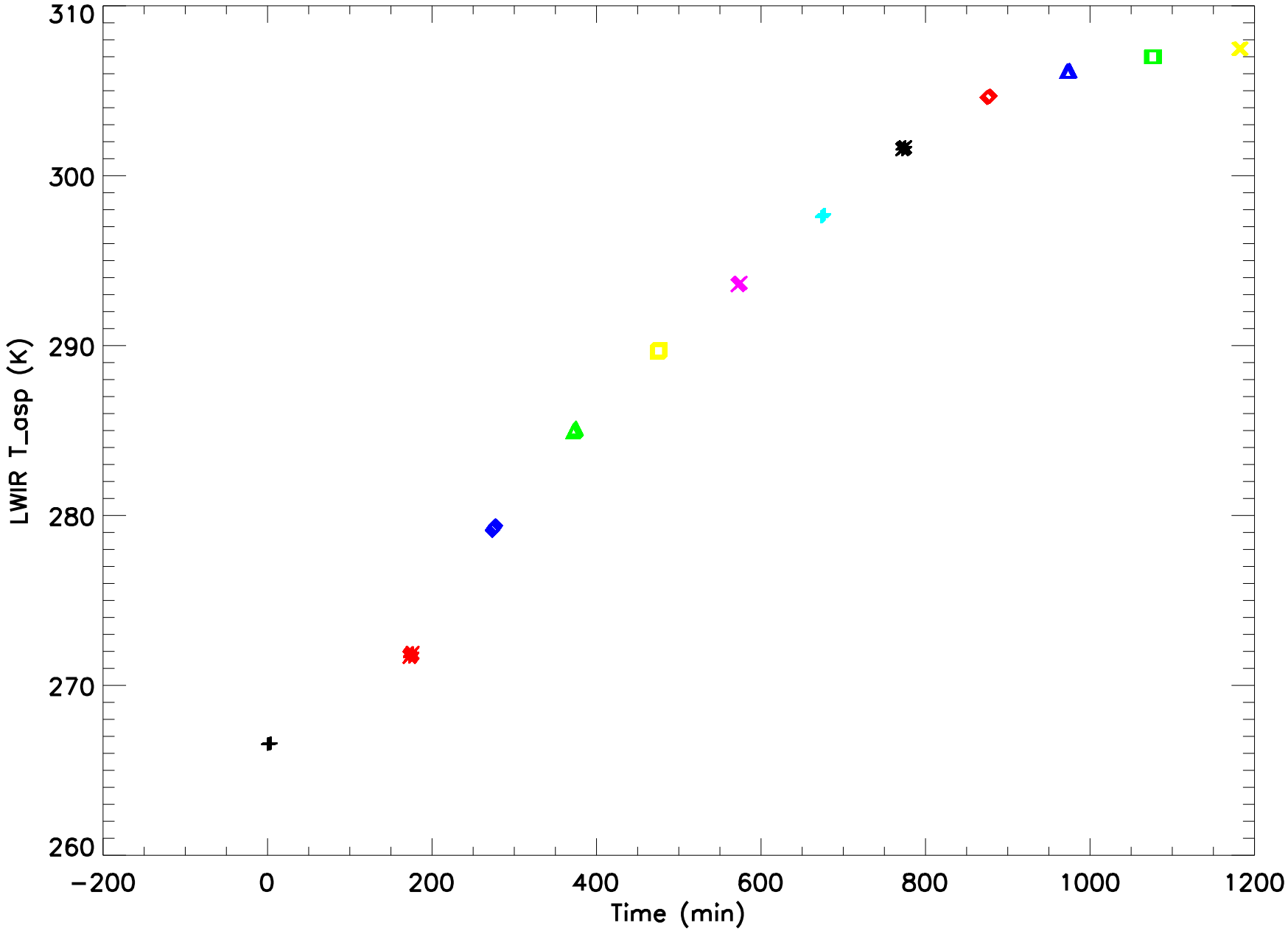


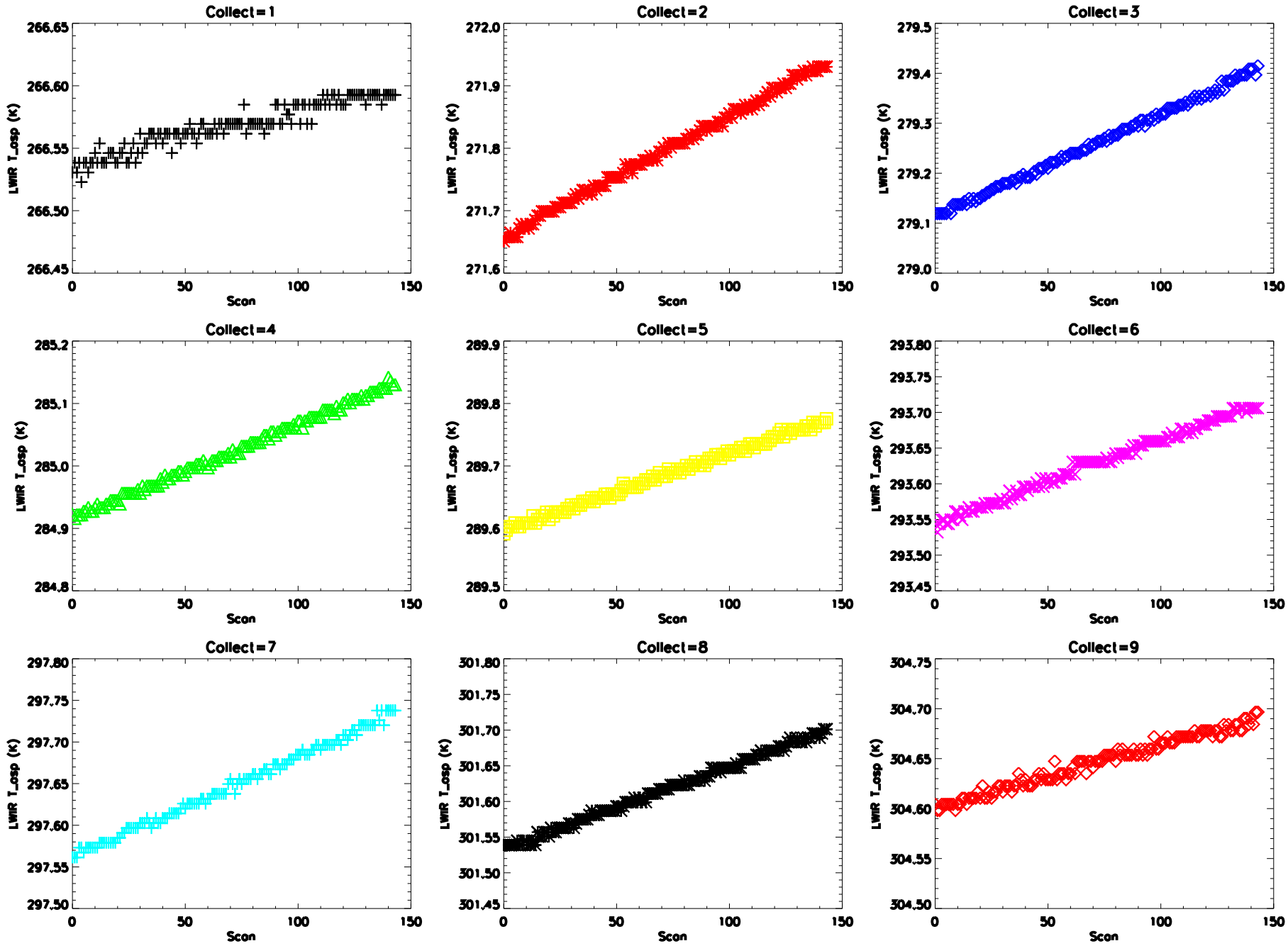

SMWIR T_asp vs Time
SMWIR T_asp (K)
310
300
290
280
270
260
−200
0
200
400
600
800
1000
1200
Time (min)


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

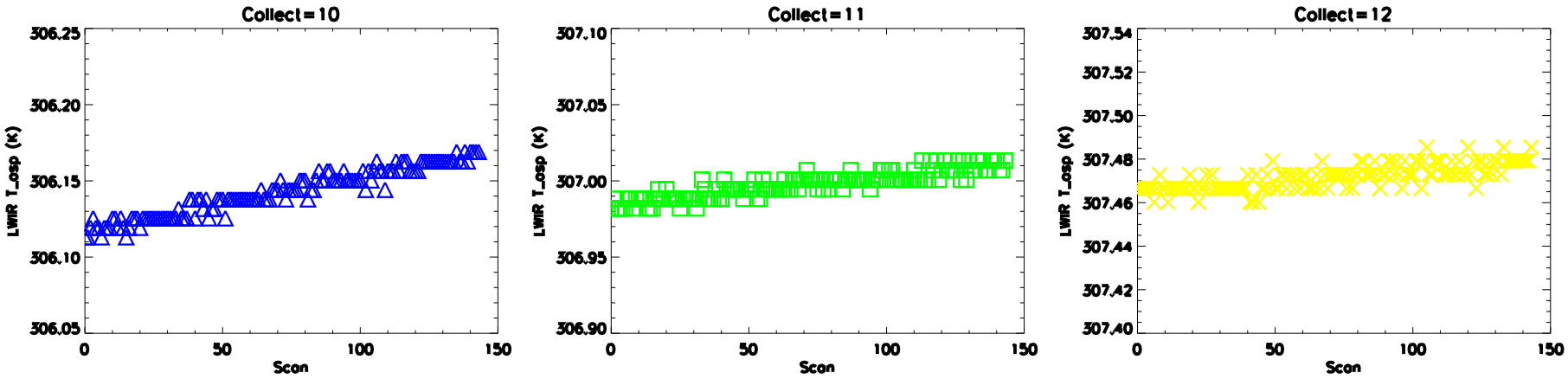
SMWIR T_asp vs Scan

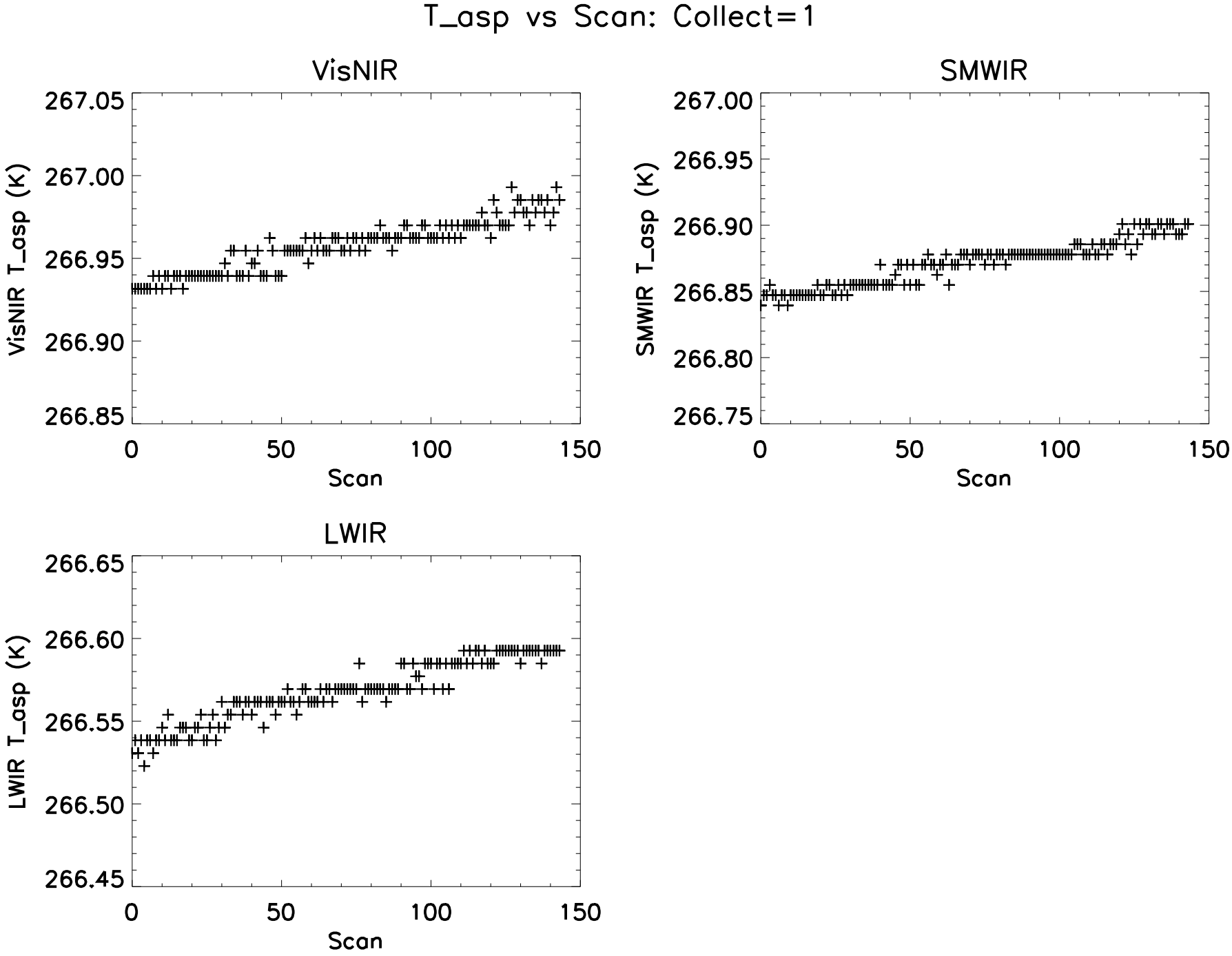


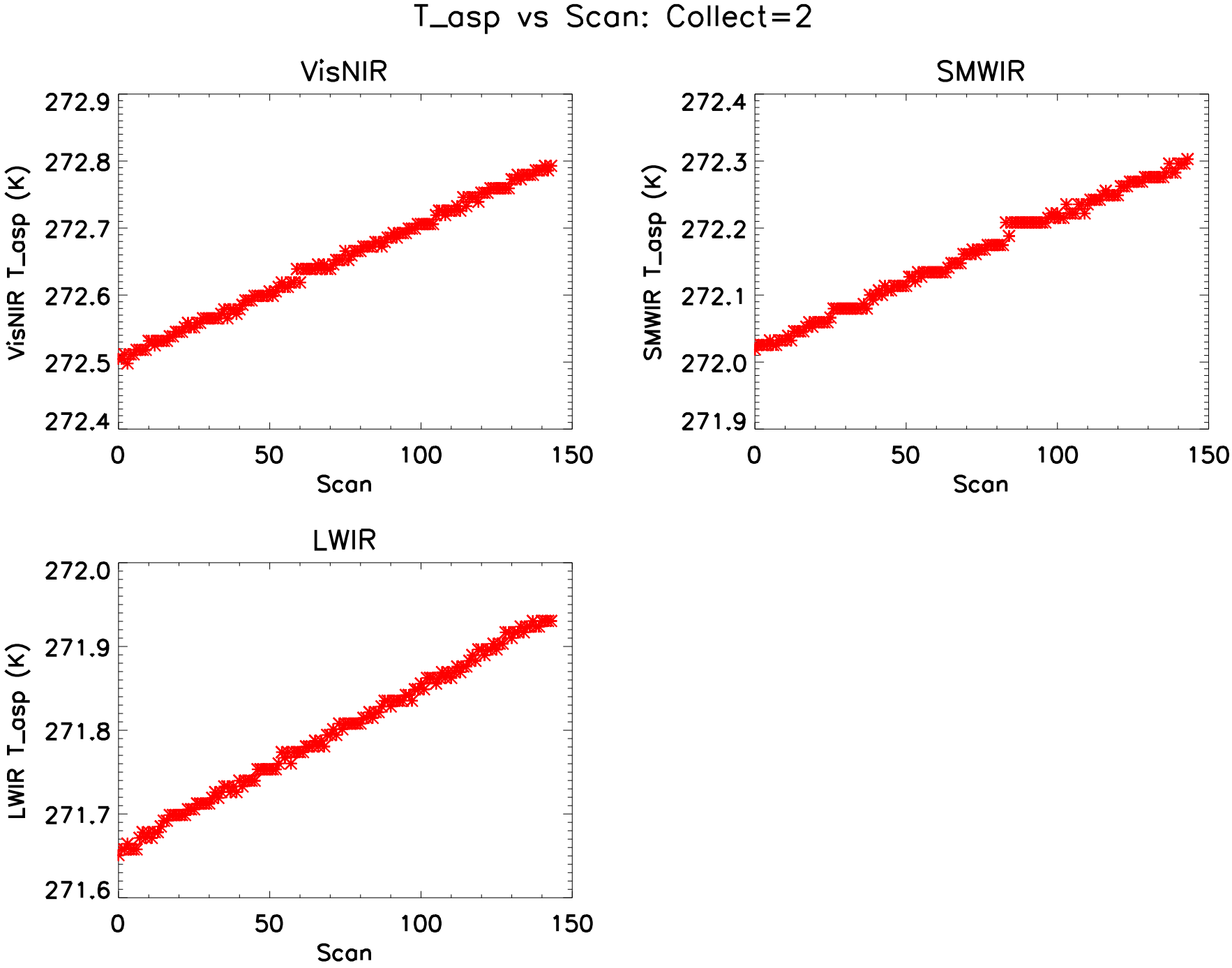

LWIR T_asp vs Time
LWIR T_asp (K)
310
300
290
280
270
260
−200
0
200
400
600
800
1000
1200
Time (min)

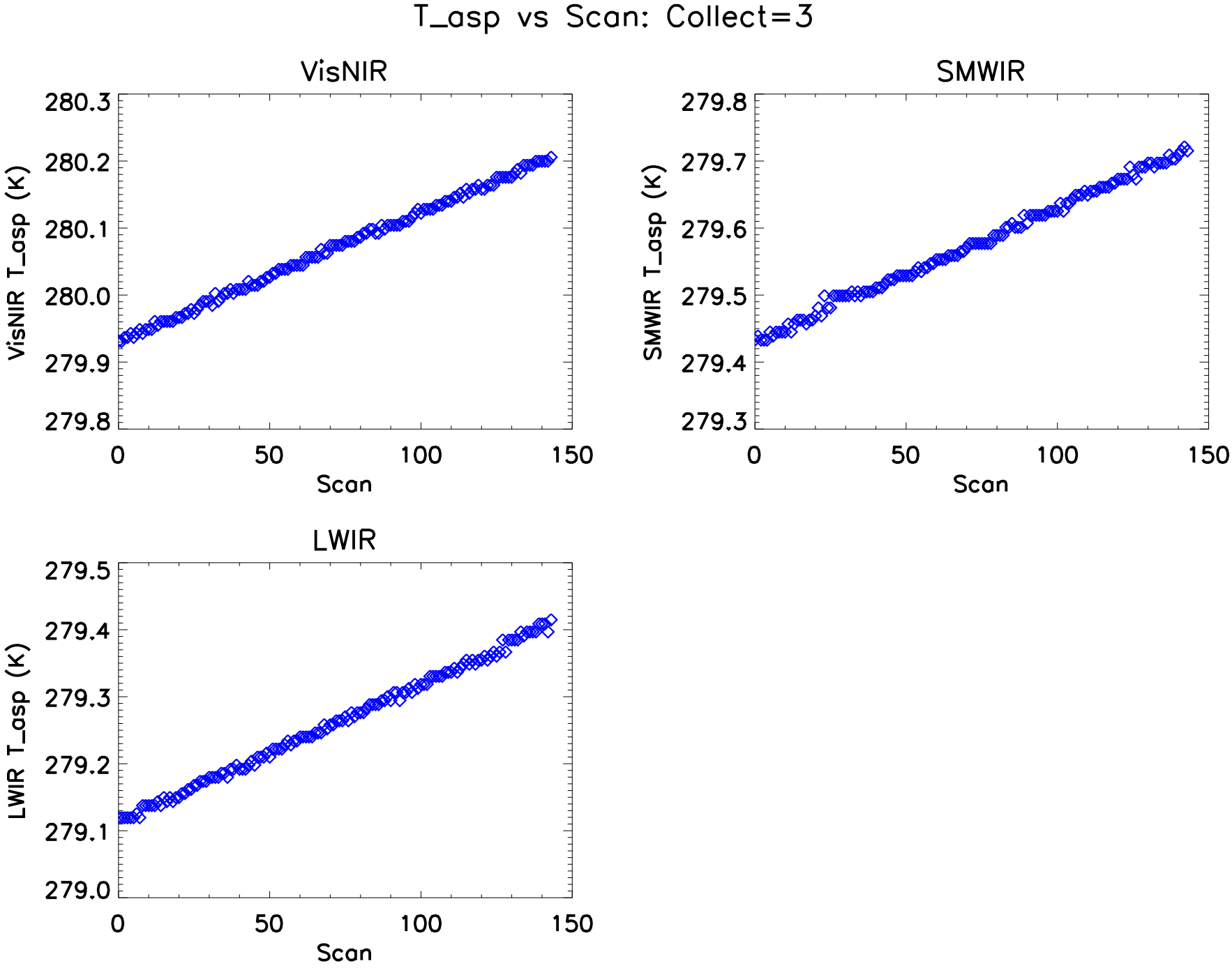

Collect=1
LWIR T_osp (K)
Scan
Collect=2
LWIR T_osp (K)
Scan
Collect=3
LWIR T_osp (K)
Scan
Collect=4
LWIR T_osp (K)
Scan
Collect=5
LWIR T_osp (K)
Scan
Collect=6
LWIR T_osp (K)
Scan
Collect=7
LWIR T_osp (K)
Scan
Collect=8
LWIR T_osp (K)
Scan
Collect=9
LWIR T_osp (K)
Scan

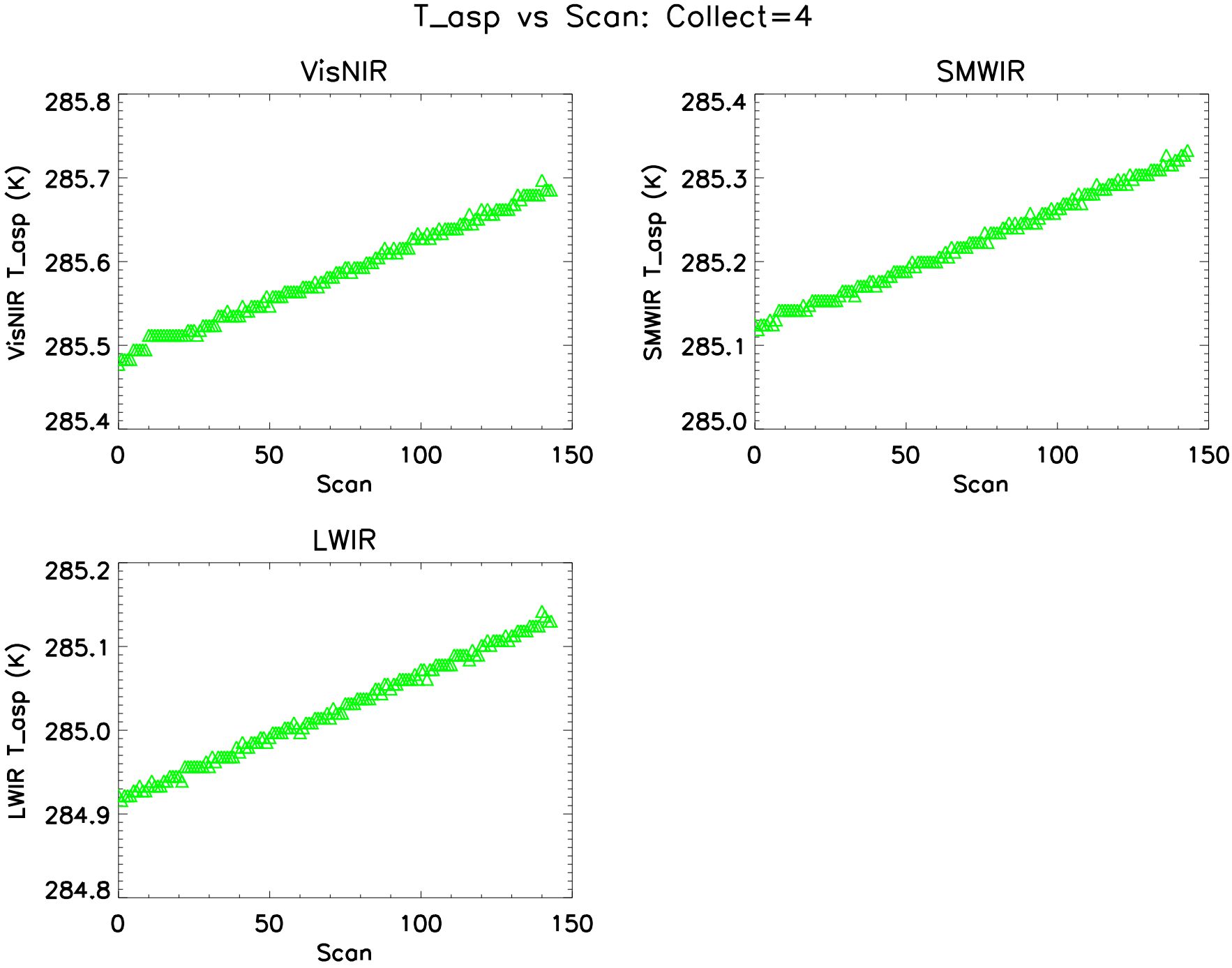
LWIR T_asp vs Scan

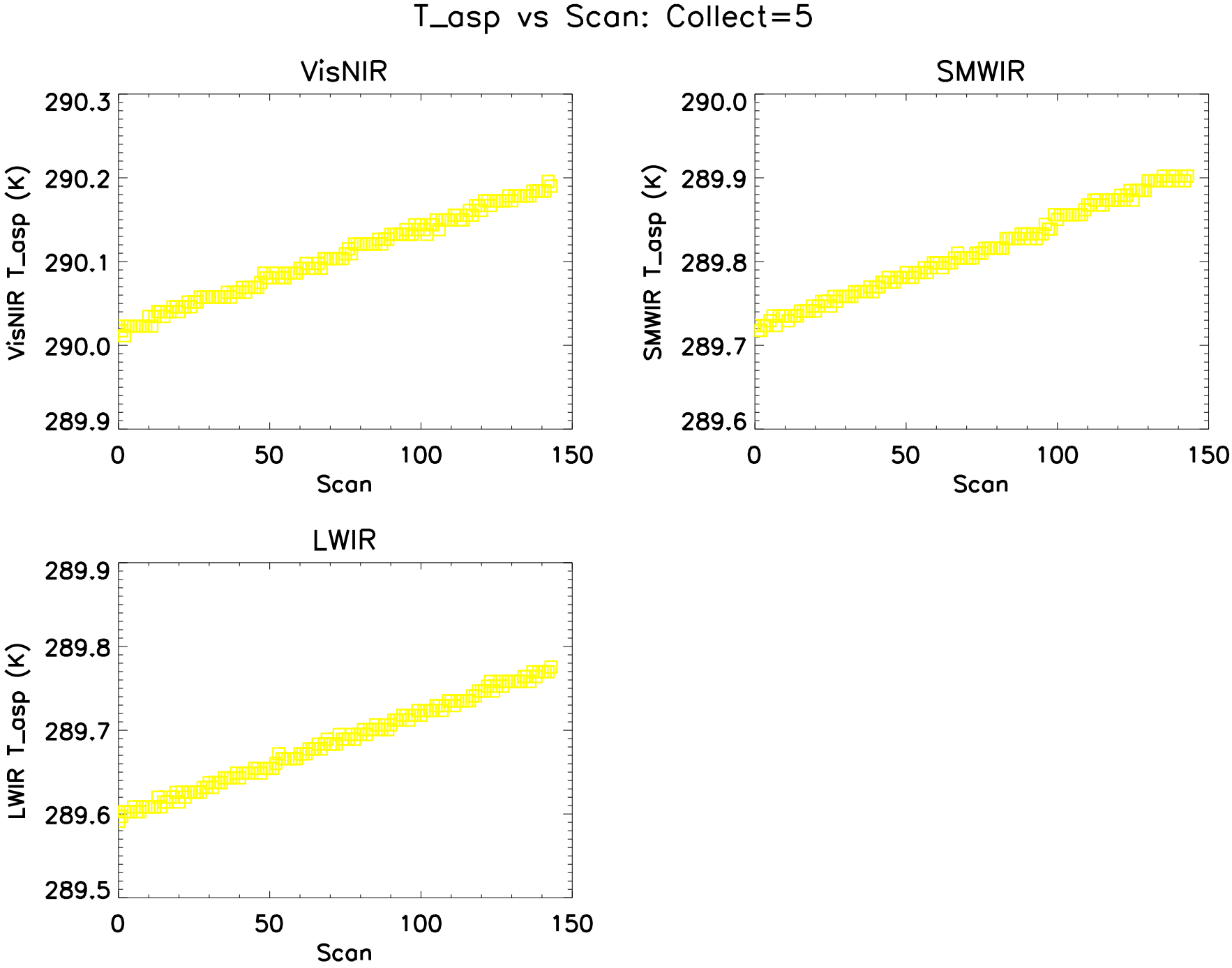


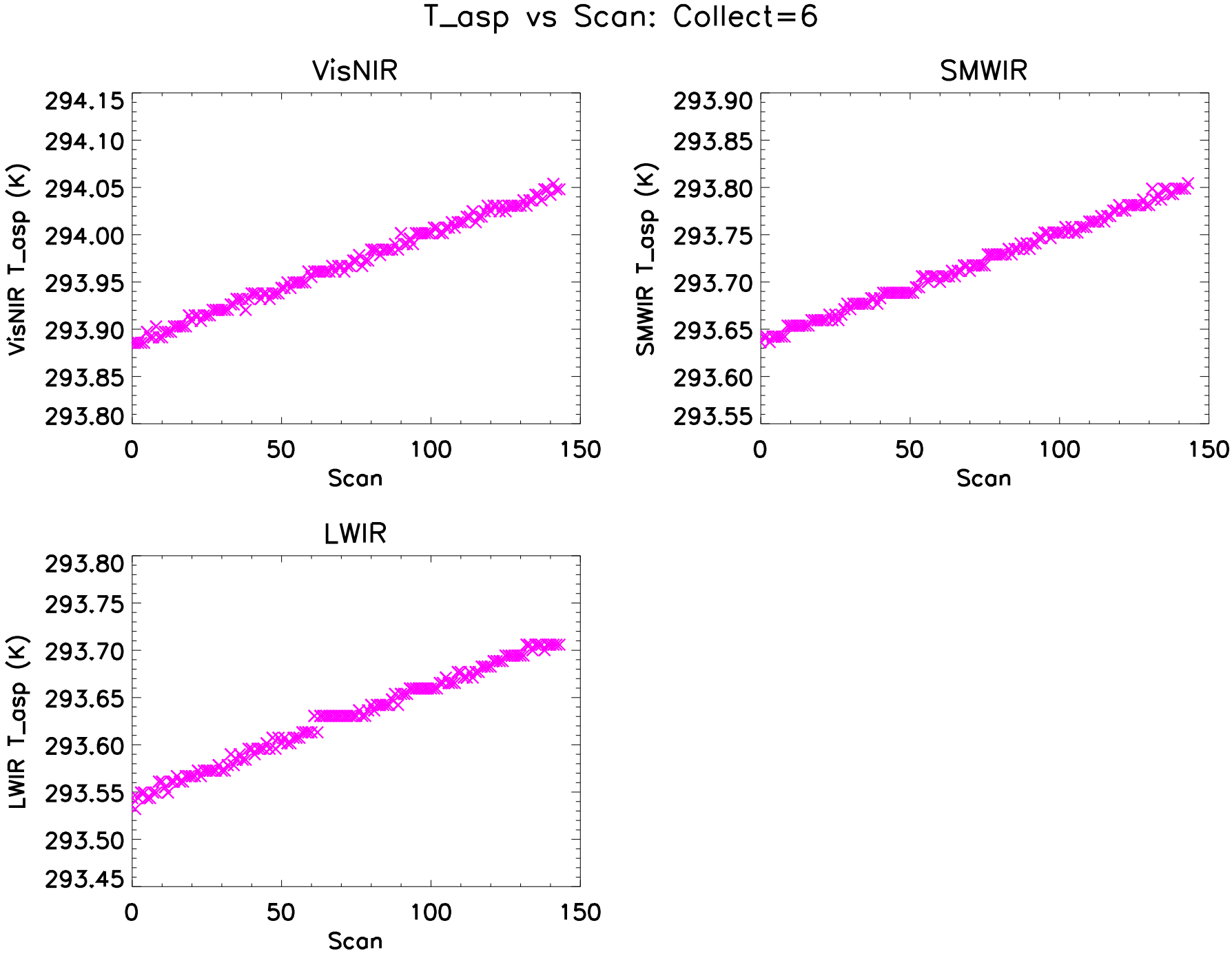

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
267.05
267.00
266.95
266.90
266.85
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
267.00
266.95
266.90
266.85
266.80
266.75
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
266.65
266.60
266.55
266.50
266.45
0
50
100
150
Scan

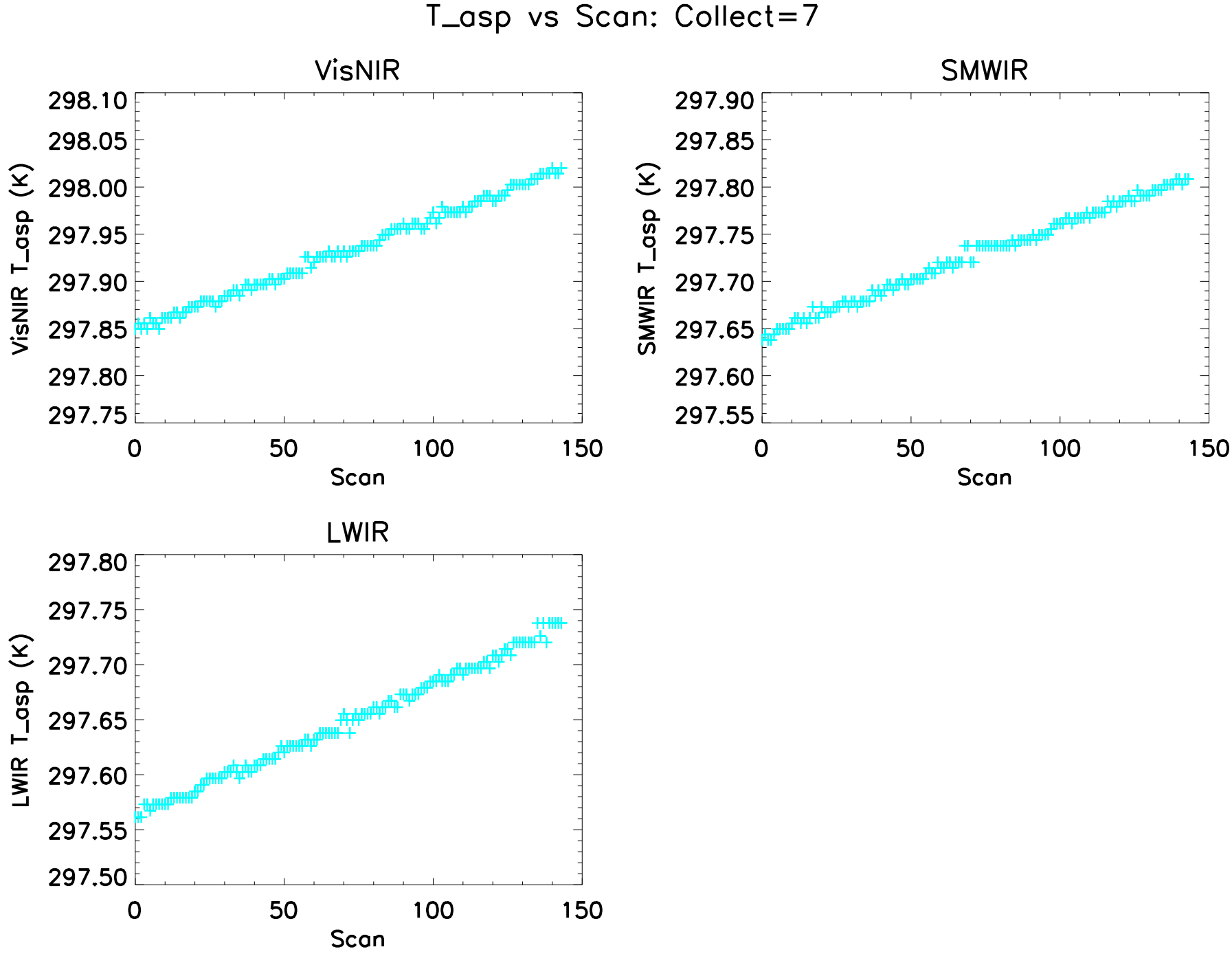

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
272.9
272.8
272.7
272.6
272.5
272.4
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
272.4
272.3
272.2
272.1
272.0
271.9
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
272.0
271.9
271.8
271.7
271.6
0
50
100
150
Scan

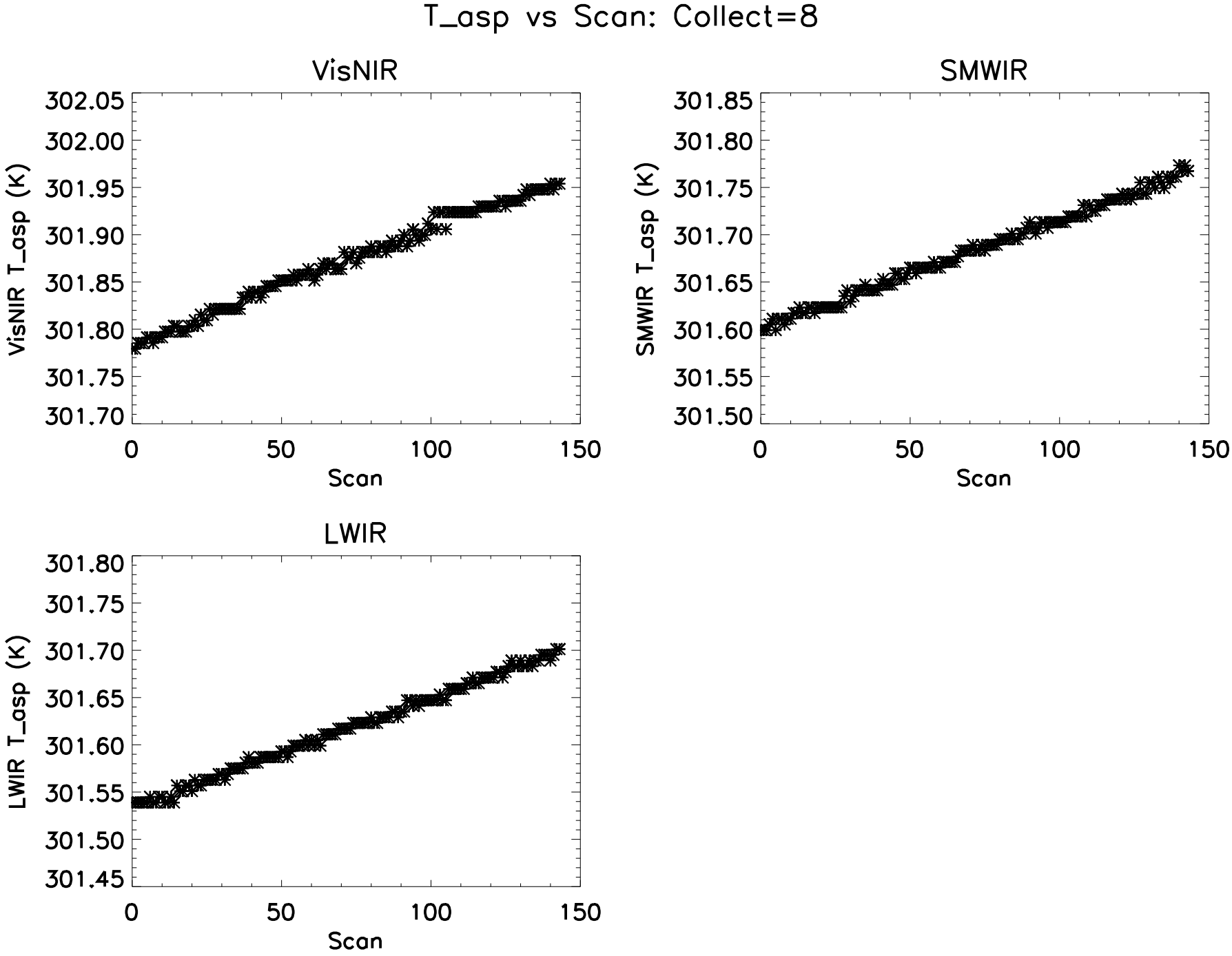

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
280.3
280.2
280.1
280.0
279.9
279.8
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
279.8
279.7
279.6
279.5
279.4
279.3
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
279.5
279.4
279.3
279.2
279.1
279.0
0
50
100
150
Scan

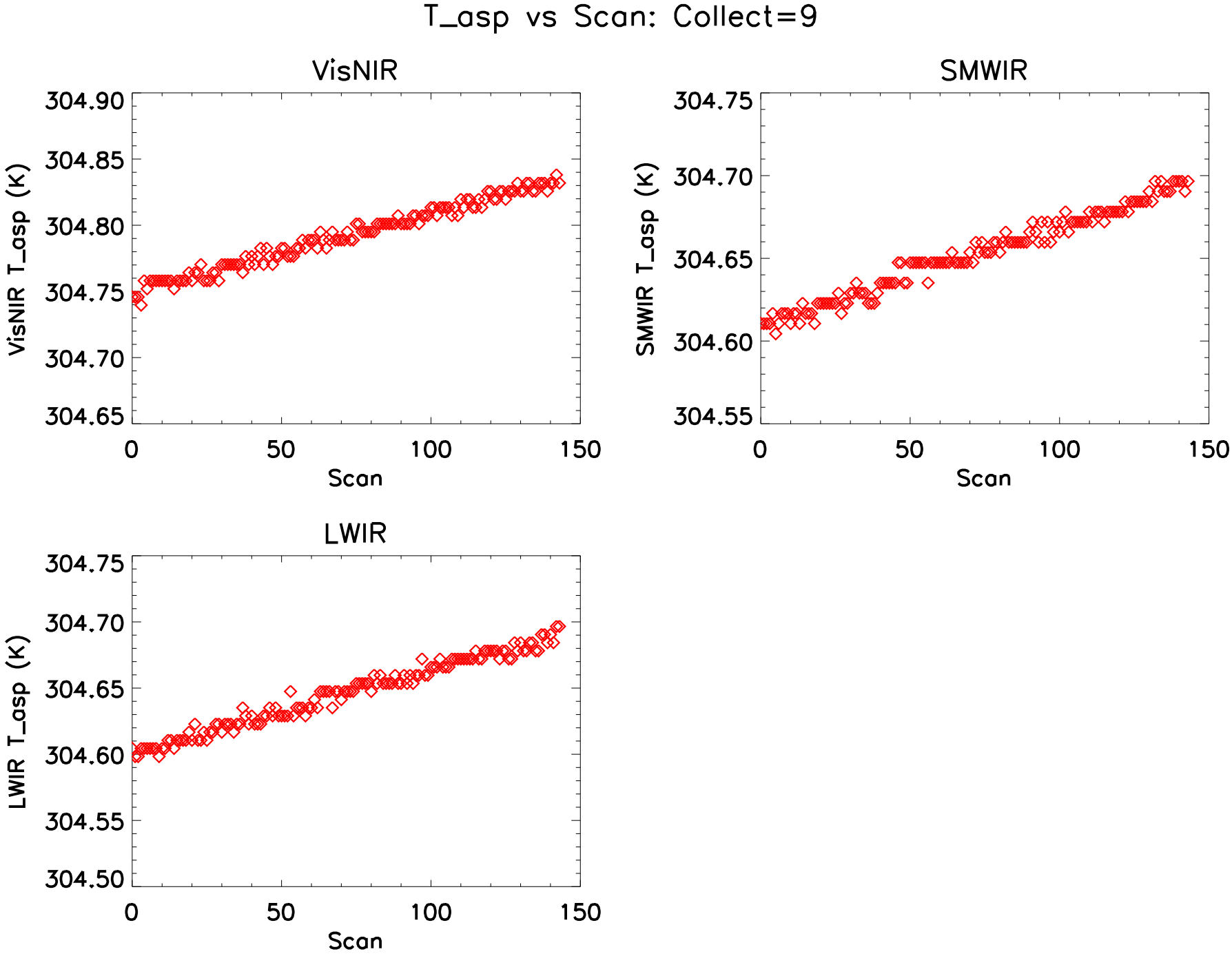

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
285.8
285.7
285.6
285.5
285.4
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
285.4
285.3
285.2
285.1
285.0
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
285.2
285.1
285.0
284.9
284.8
0
50
100
150
Scan

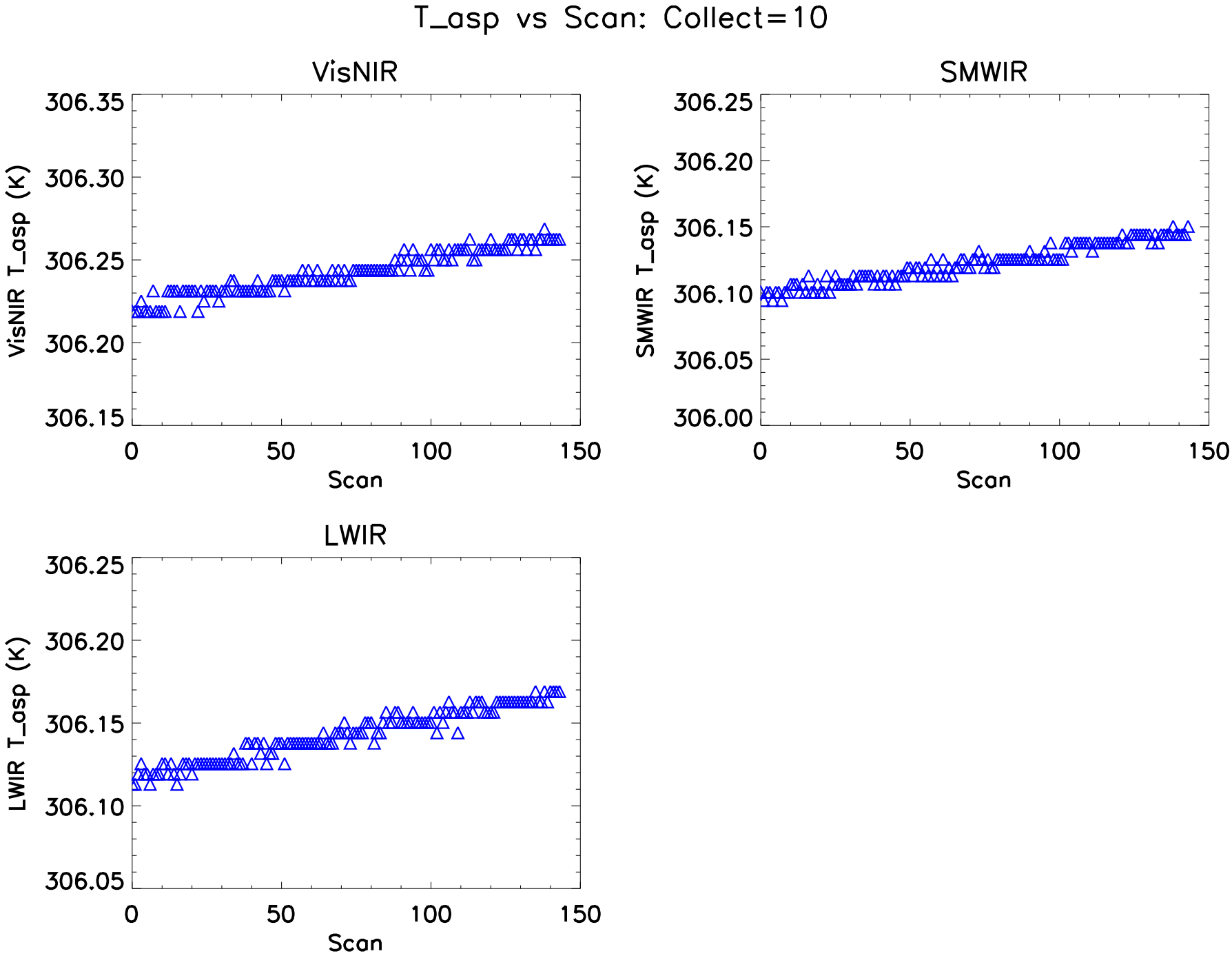

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
290.3
290.2
290.1
290.0
289.9
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
290.0
289.9
289.8
289.7
289.6
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
289.9
289.8
289.7
289.6
289.5
0
50
100
150
Scan

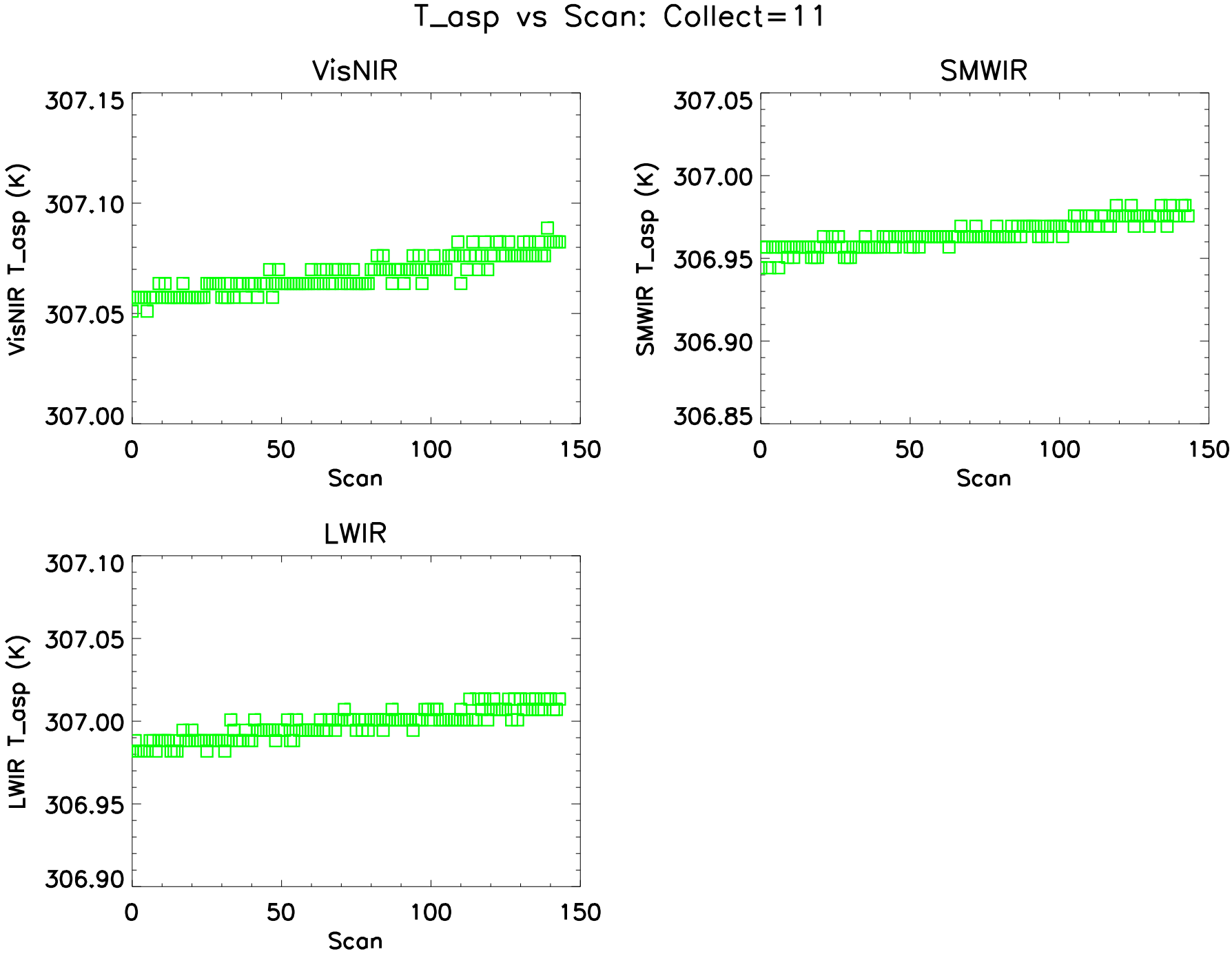

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
294.15
294.10
294.05
294.00
293.95
293.90
293.85
293.80
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
293.90
293.85
293.80
293.75
293.70
293.65
293.60
293.55
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
293.80
293.75
293.70
293.65
293.60
293.55
293.50
293.45
0
50
100
150
Scan

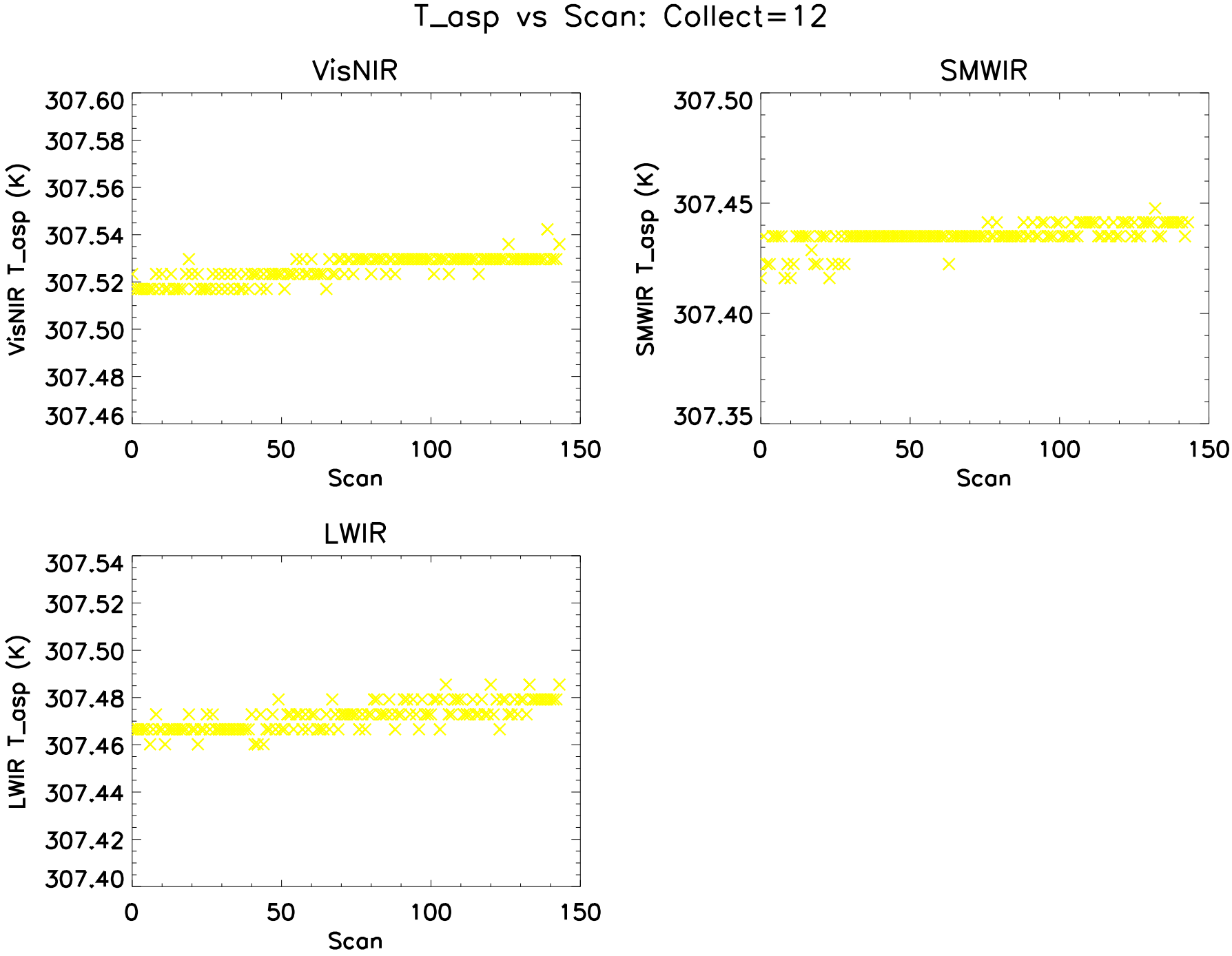

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
298.10
298.05
298.00
297.95
297.90
297.85
297.80
297.75
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
297.90
297.85
297.80
297.75
297.70
297.65
297.60
297.55
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
297.80
297.75
297.70
297.65
297.60
297.55
297.50
0
50
100
150
Scan

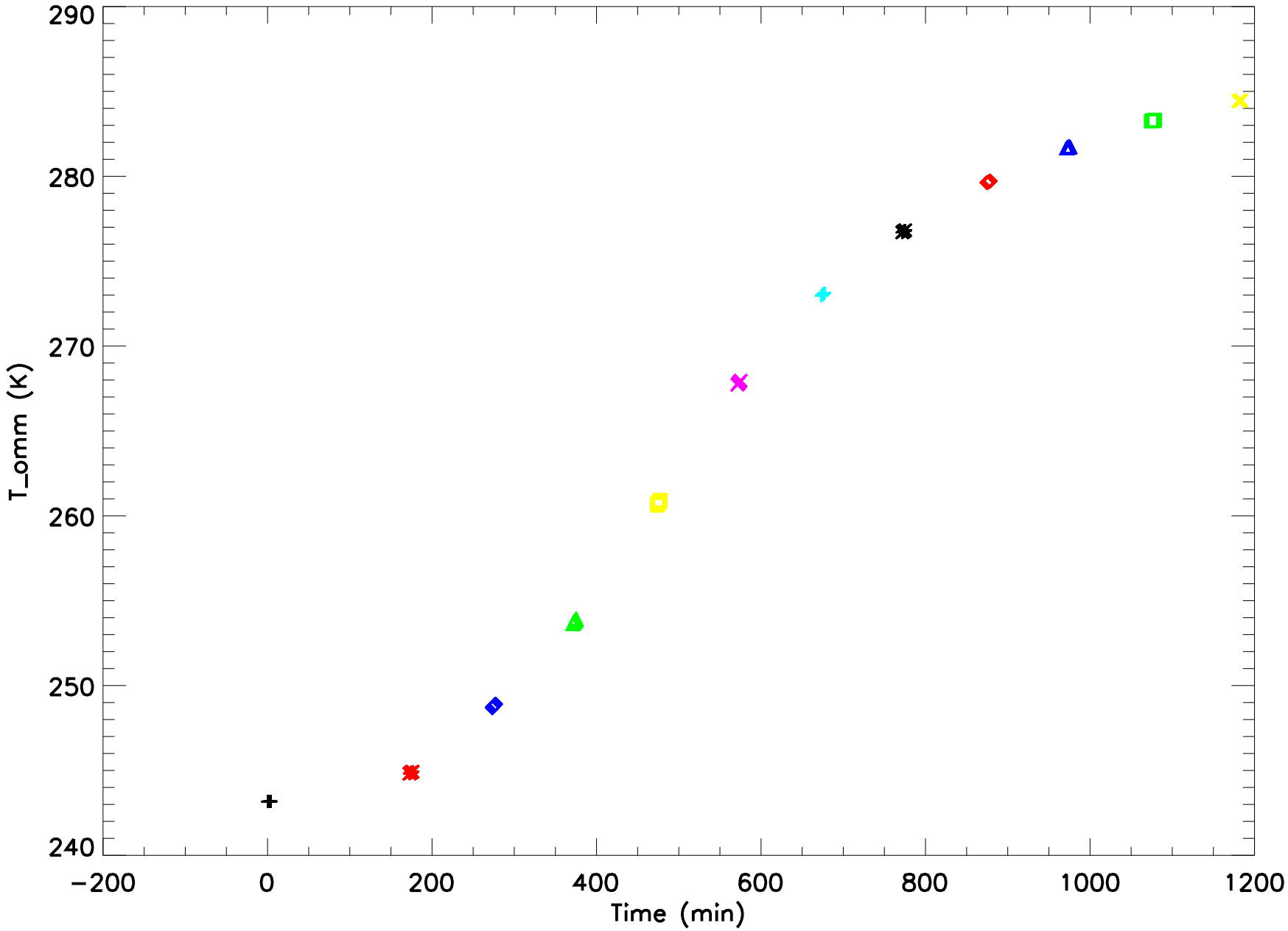

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
302.05
302.00
301.95
301.90
301.85
301.80
301.75
301.70
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
301.85
301.80
301.75
301.70
301.65
301.60
301.55
301.50
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
301.80
301.75
301.70
301.65
301.60
301.55
301.50
301.45
0
50
100
150
Scan


T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
304.90
304.85
304.80
304.75
304.70
304.65
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
304.75
304.70
304.65
304.60
304.55
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
304.75
304.70
304.65
304.60
304.55
304.50
0
50
100
150
Scan

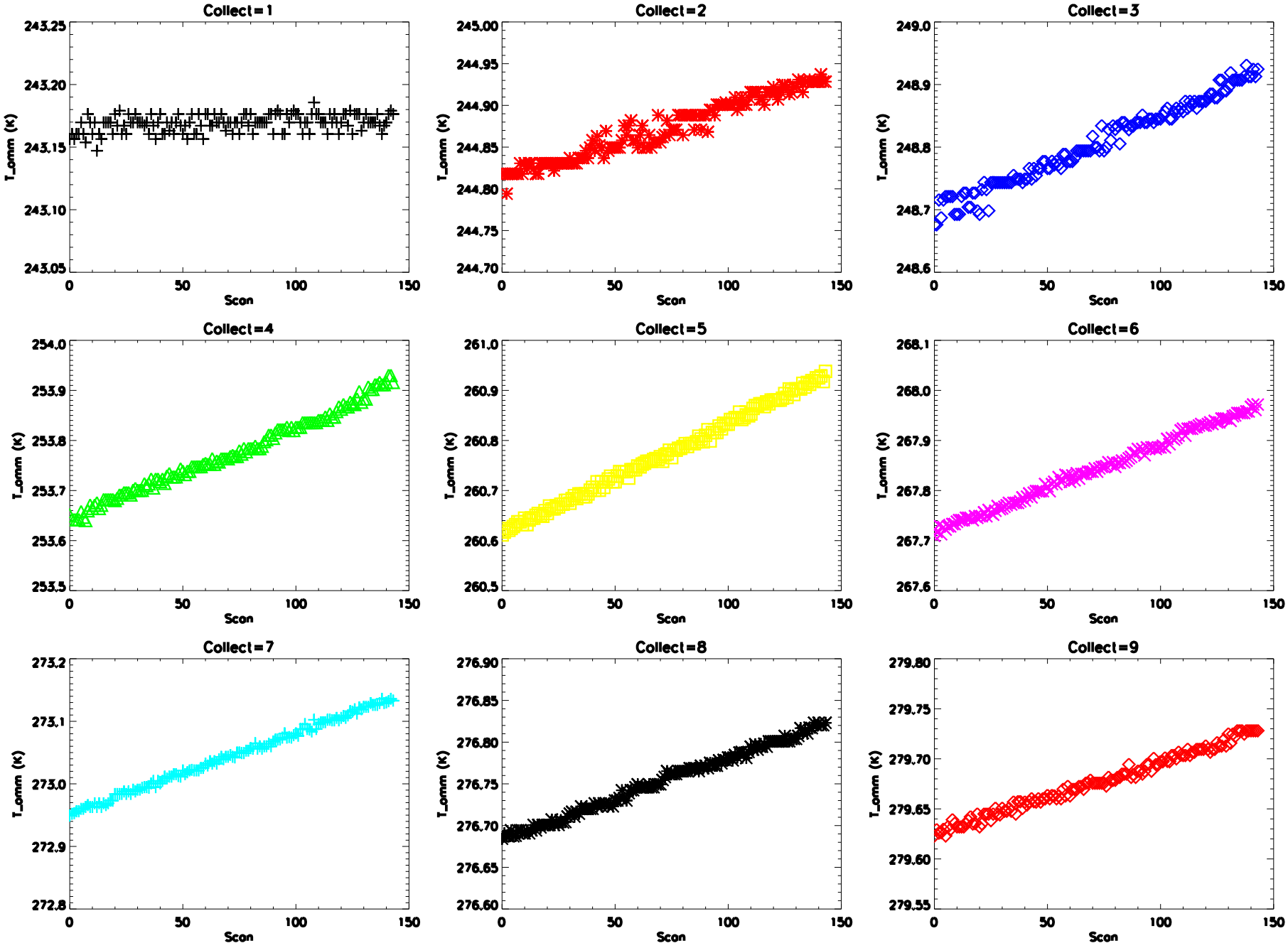

T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
306.35
306.30
306.25
306.20
306.15
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
306.25
306.20
306.15
306.10
306.05
306.00
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
306.25
306.20
306.15
306.10
306.05
0
50
100
150
Scan


T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
307.15
307.10
307.05
307.00
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
307.05
307.00
306.95
306.90
306.85
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
307.10
307.05
307.00
306.95
306.90
0
50
100
150
Scan

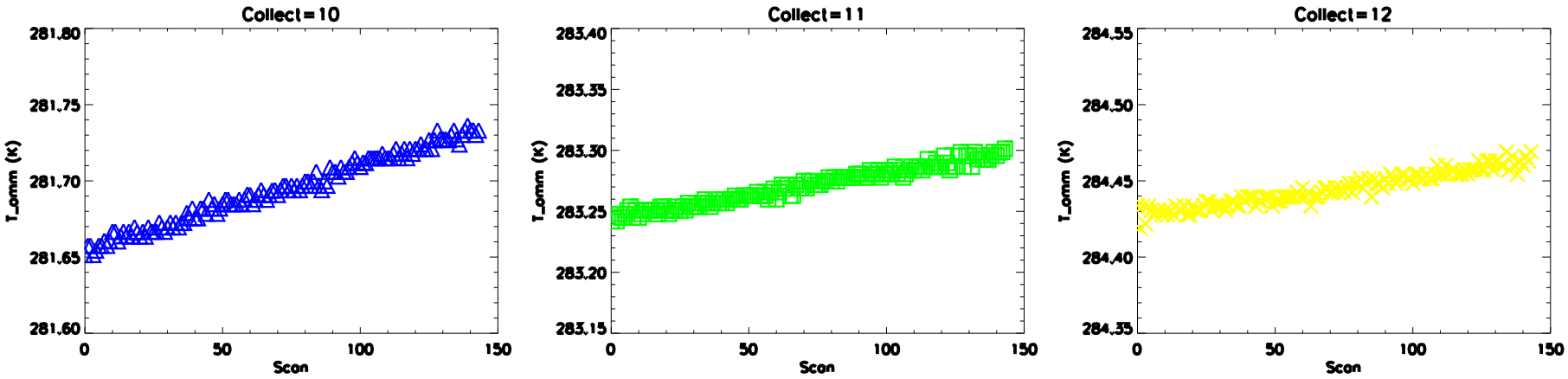

T_asp vs Scan: Collect=12
VisNIR
VisNIR T_asp (K)
307.60
307.58
307.56
307.54
307.52
307.50
307.48
307.46
0
50
100
150
Scan
SMWIR
SMWIR T_asp (K)
307.50
307.45
307.40
307.35
0
50
100
150
Scan
LWIR
LWIR T_asp (K)
307.54
307.52
307.50
307.48
307.46
307.44
307.42
307.40
0
50
100
150
Scan


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
245.00
244.95
244.90
244.85
244.80
244.75
244.70
T_omm (K)
0
50
100
150
Scan
Collect=3
249.0
248.9
248.8
248.7
248.6
T_omm (K)
0
50
100
150
Scan
Collect=4
254.0
253.9
253.8
253.7
253.6
253.5
T_omm (K)
0
50
100
150
Scan
Collect=5
261.0
260.9
260.8
260.7
260.6
260.5
T_omm (K)
0
50
100
150
Scan
Collect=6
268.1
268.0
267.9
267.8
267.7
267.6
T_omm (K)
0
50
100
150
Scan
Collect=7
273.2
273.1
273.0
272.9
272.8
T_omm (K)
0
50
100
150
Scan
Collect=8
276.90
276.85
276.80
276.75
276.70
276.65
276.60
T_omm (K)
0
50
100
150
Scan
Collect=9
279.80
279.75
279.70
279.65
279.60
279.55
T_omm (K)
0
50
100
150
Scan

T_omm vs Scan


Collect = 10
T_omm (K)
281.80
281.75
281.70
281.65
281.60
0
50
100
150
Scan
Collect = 11
T_omm (K)
283.40
283.35
283.30
283.25
283.20
283.15
0
50
100
150
Scan
Collect = 12
T_omm (K)
284.55
284.50
284.45
284.40
284.35
0
50
100
150
Scan