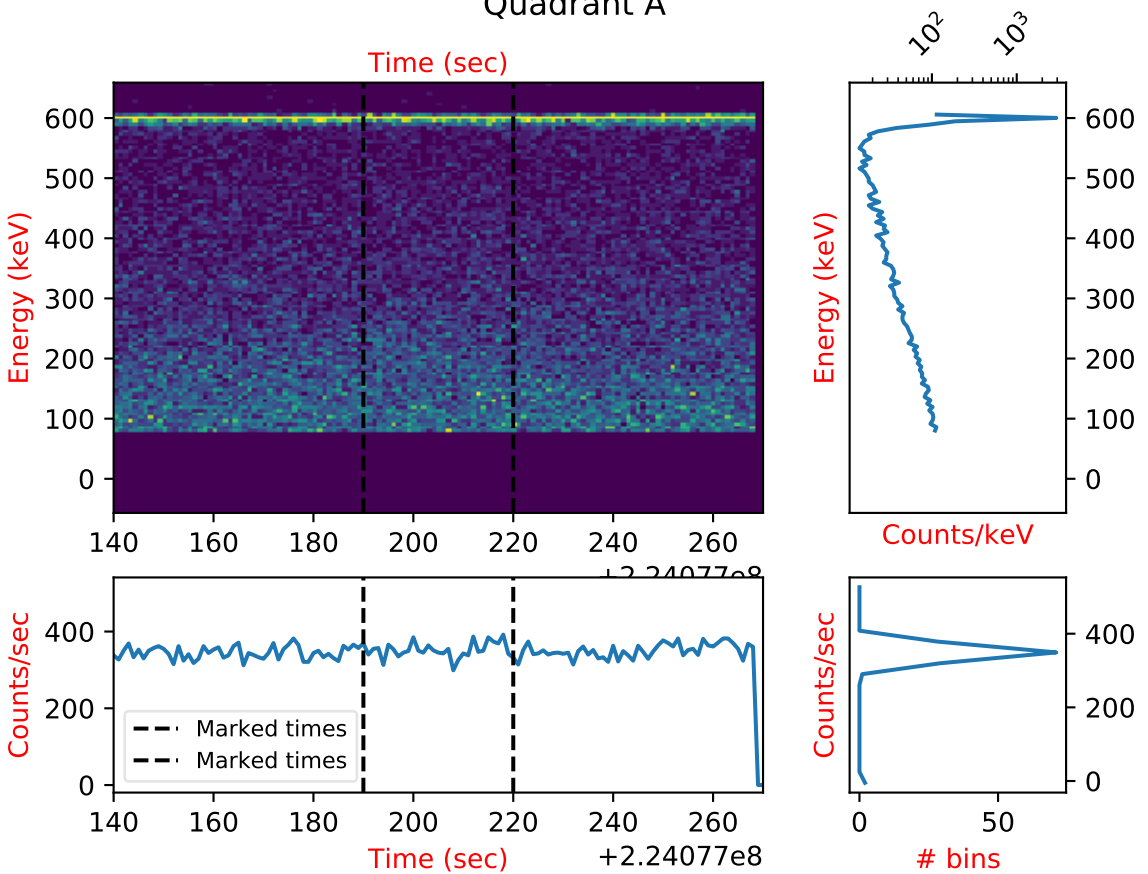
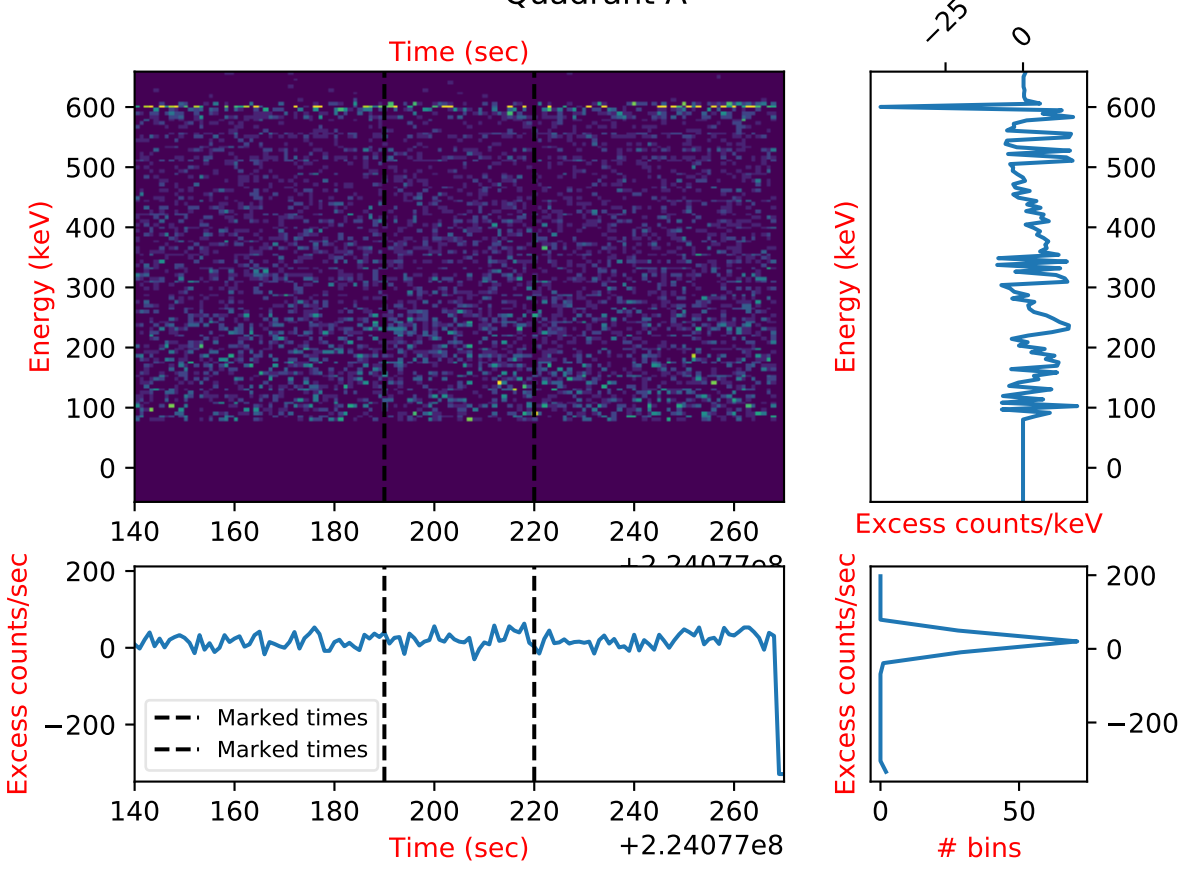
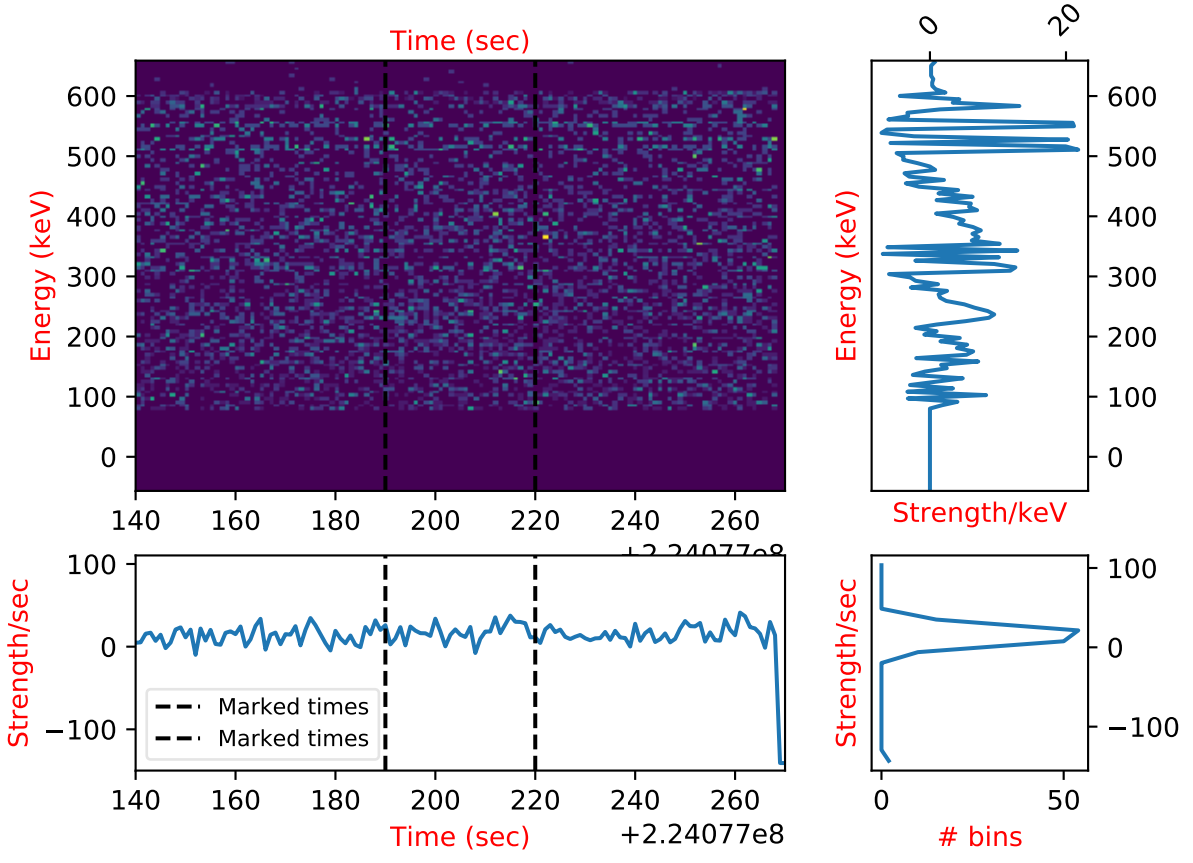
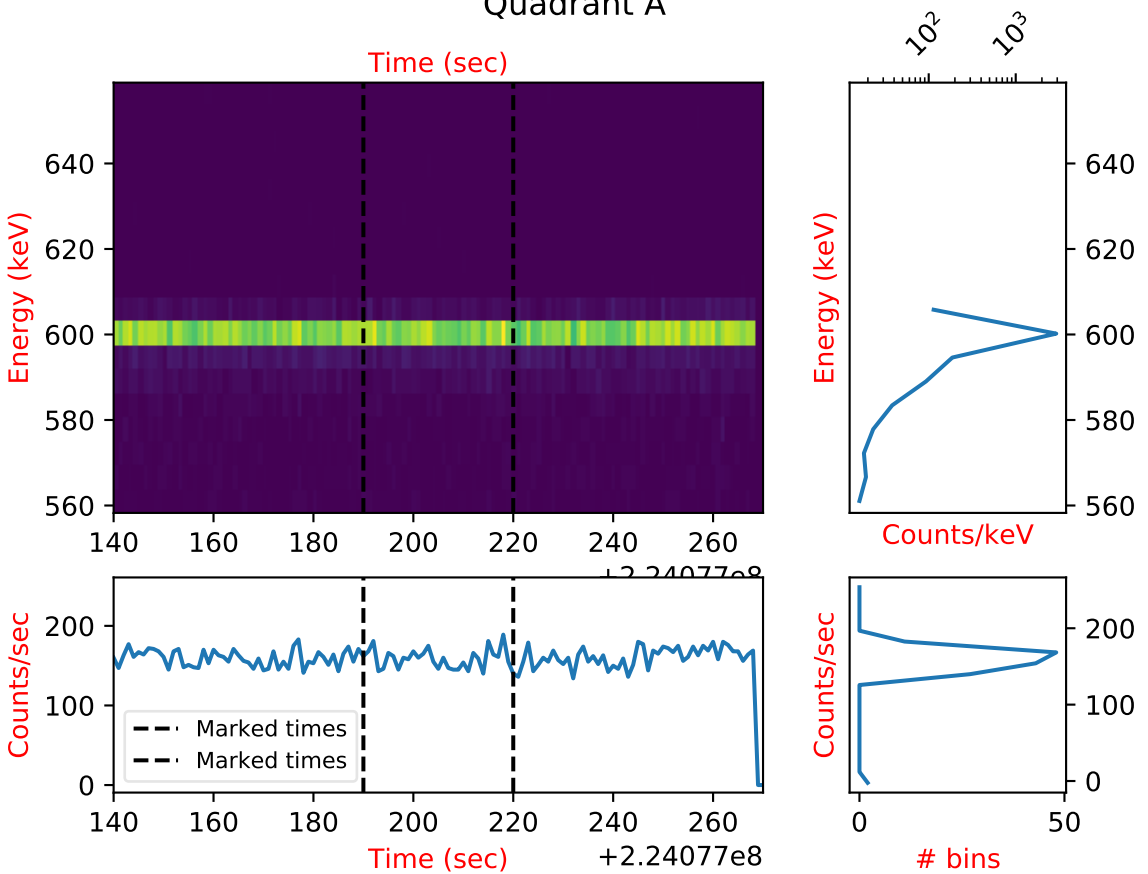
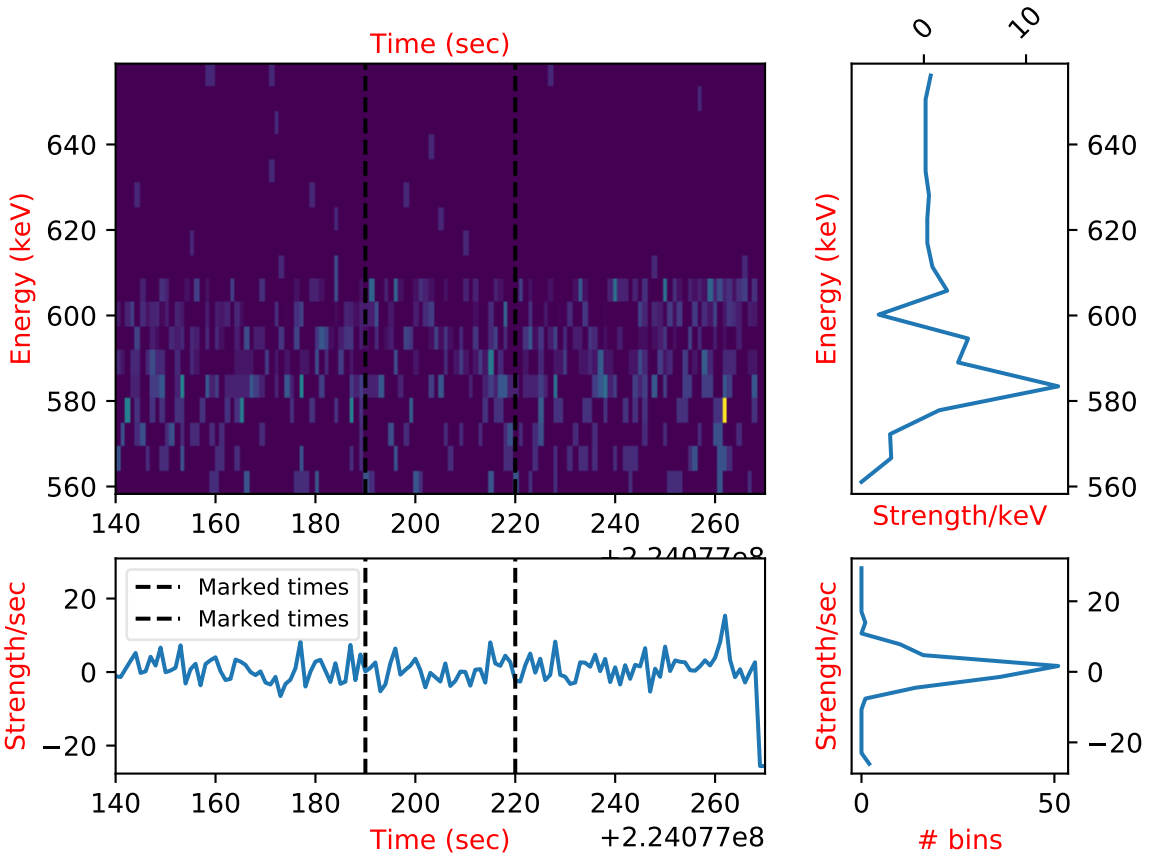
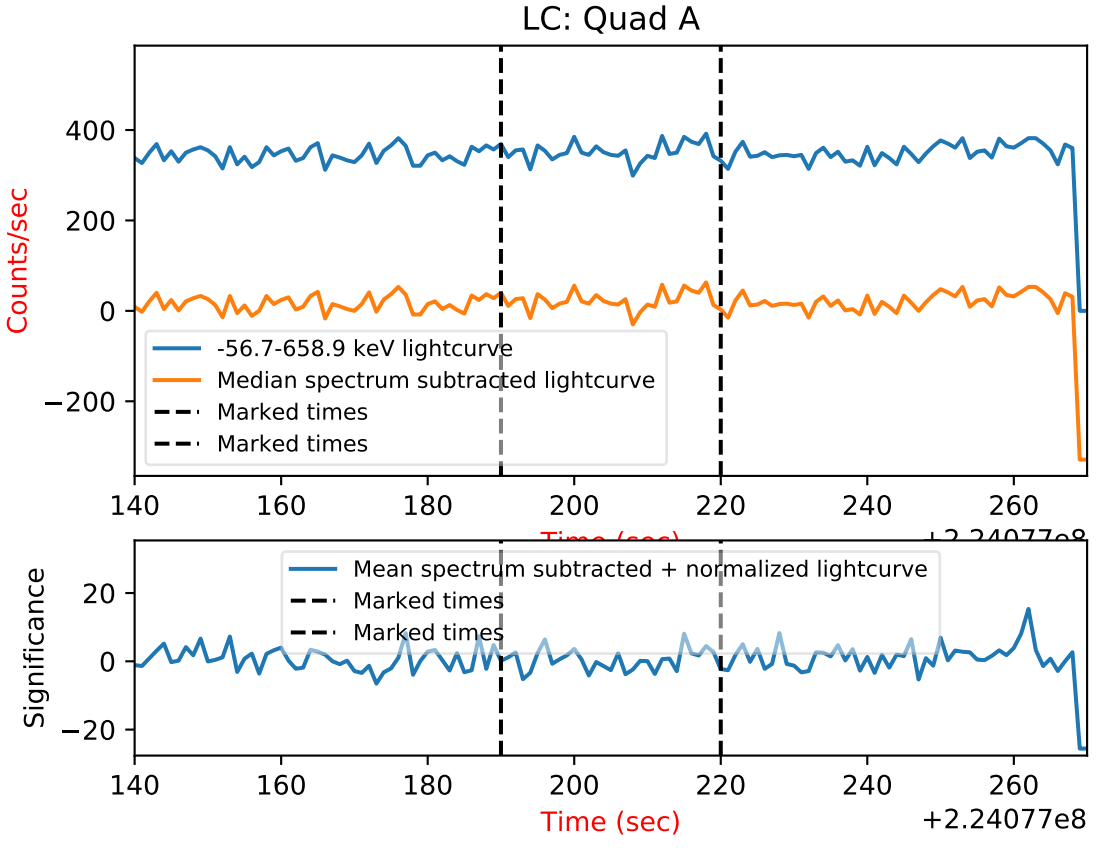

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
10^2
10^3
Counts/keV
Counts/sec
Marked times
Marked times
+2.24077e8
bins
50

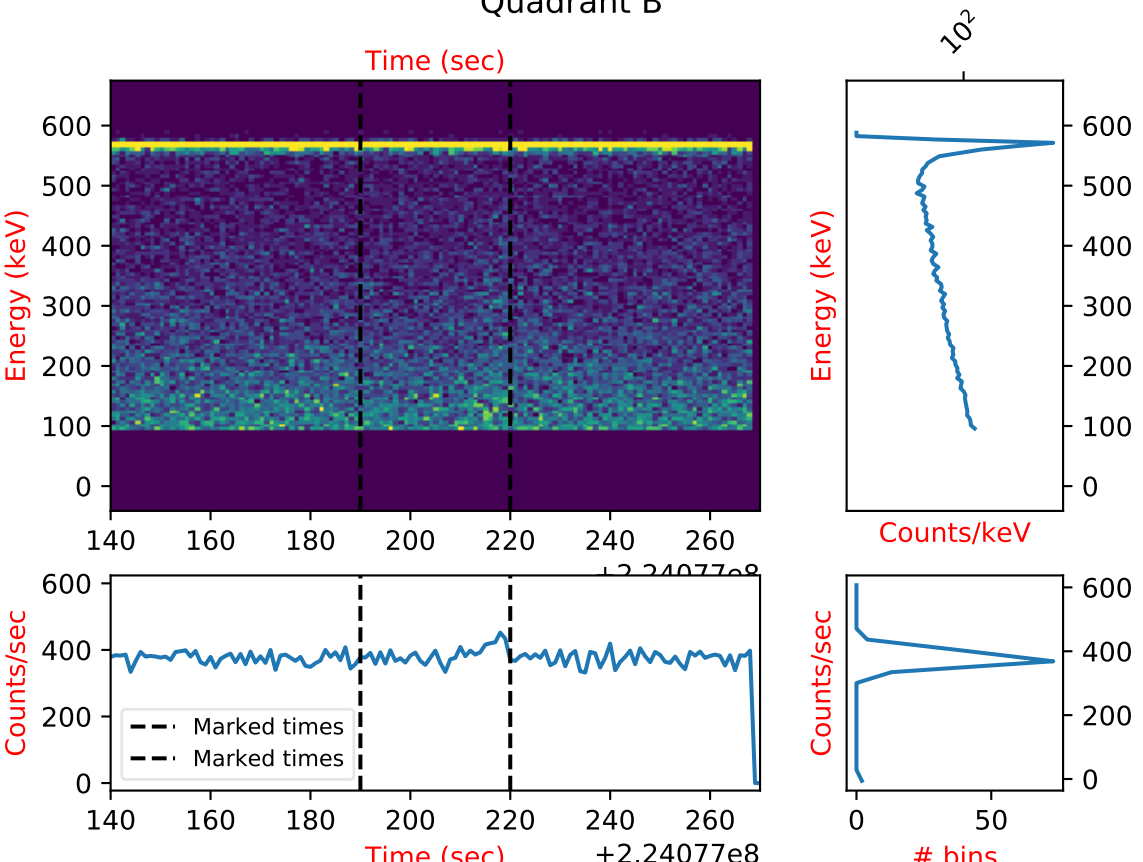

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
−25
0
Excess counts/keV
Excess counts/sec
200
0
−200
Marked times
Marked times
+2.24077e8
bins
50

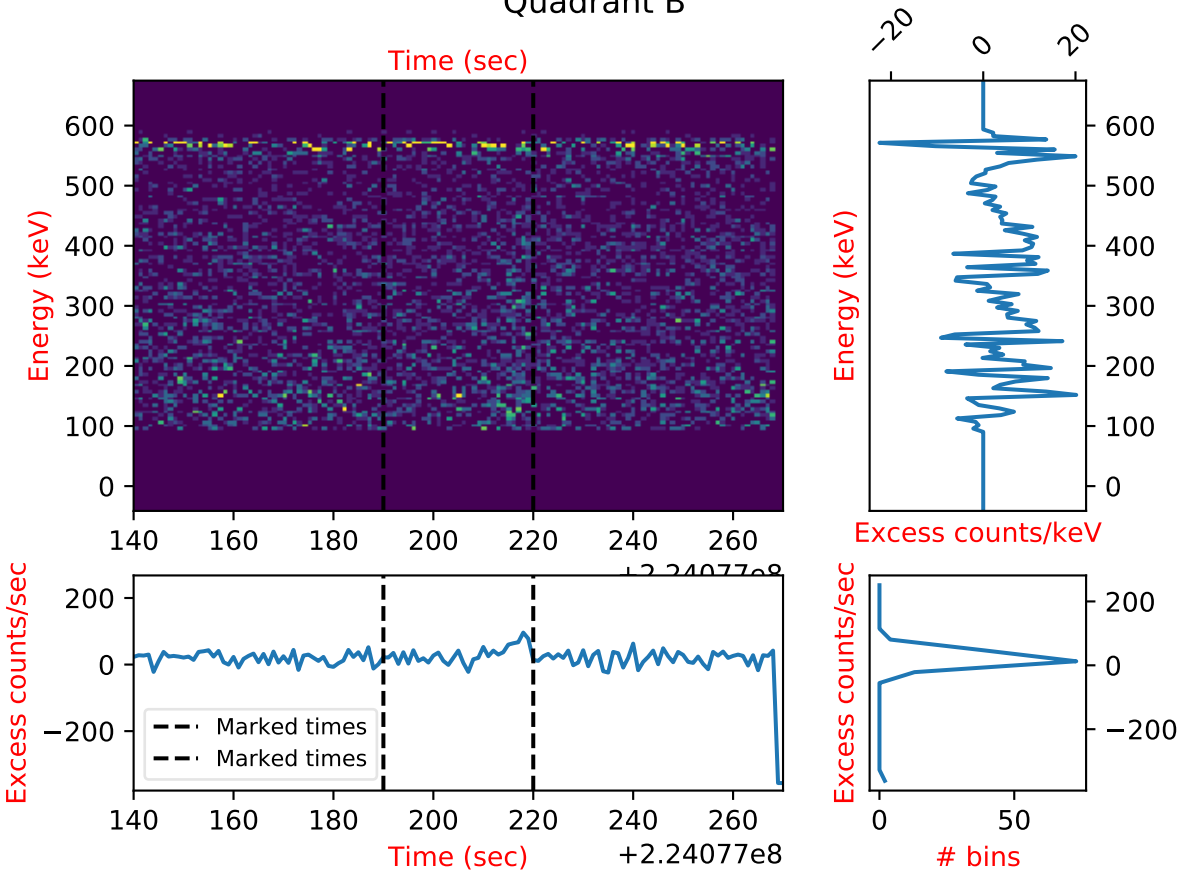

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
0
20
Strength/keV
Strength/sec
100
0
−100
Marked times
Marked times
+2.24077e8
bins
50

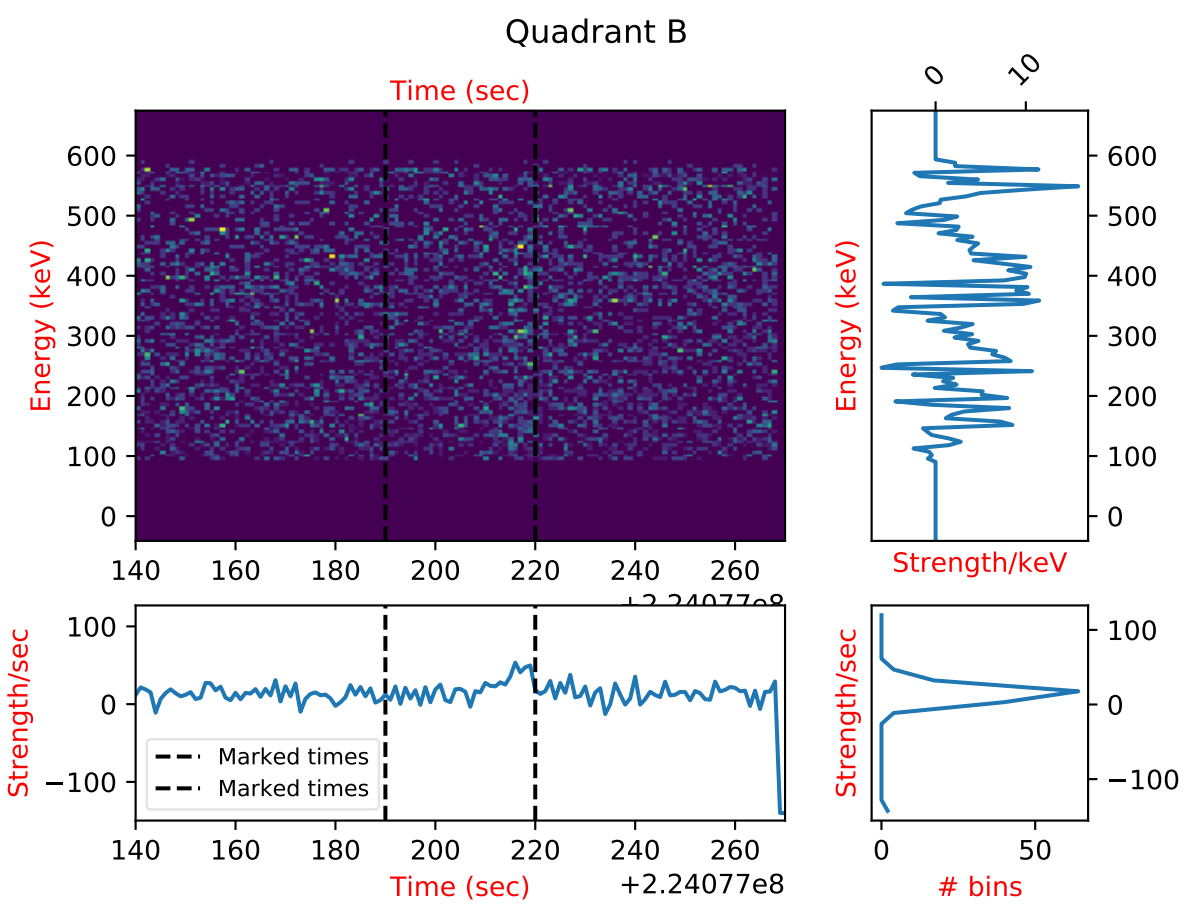

Quadrant A
Time (sec)
Energy (keV)
640
620
600
580
560
140
160
180
200
220
240
260
10^2
10^3
Counts/keV
Counts/sec
200
100
0
Marked times
Marked times
+2.24077e8
bins
50

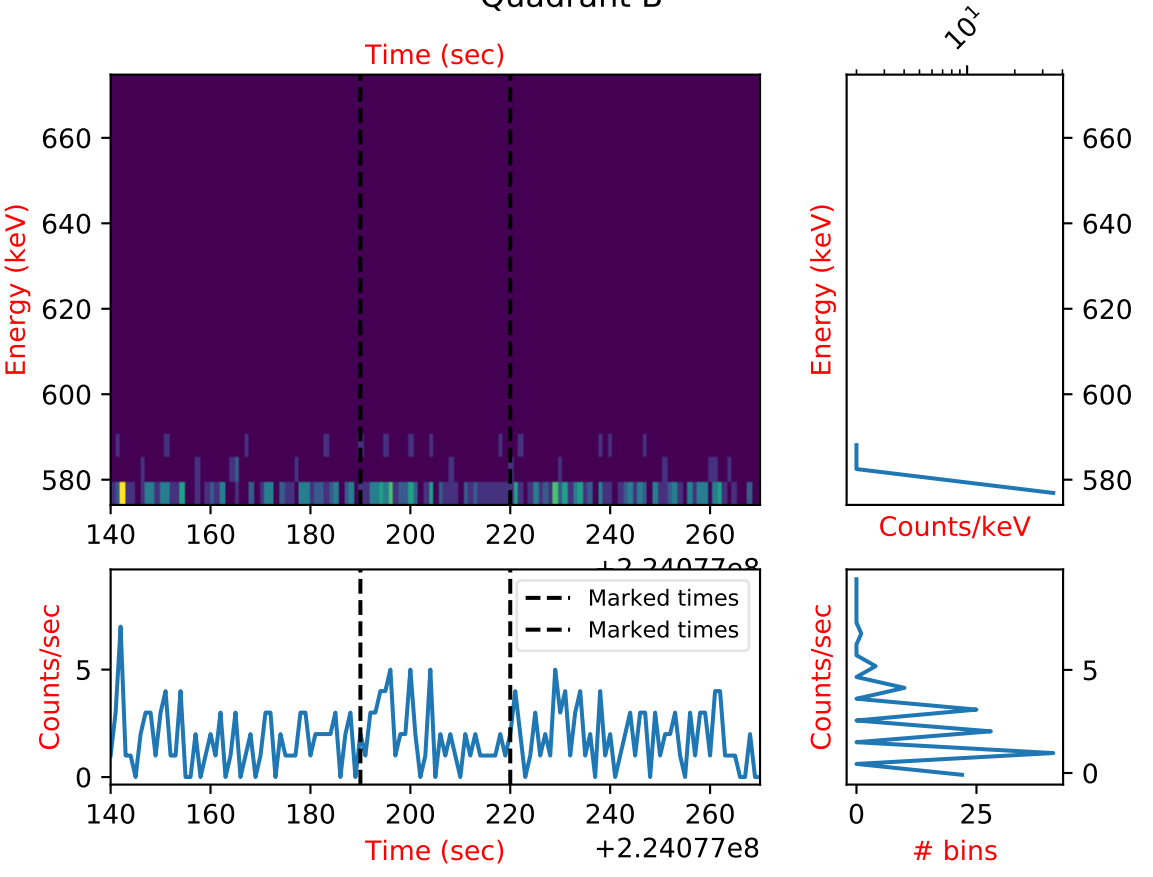

Quadrant A
Time (sec)
Energy (keV)
640
620
600
580
560
140
160
180
200
220
240
260
0
10
Strength/keV
Marked times
Marked times
Strength/sec
20
0
−20
+2.24077e8
bins
50

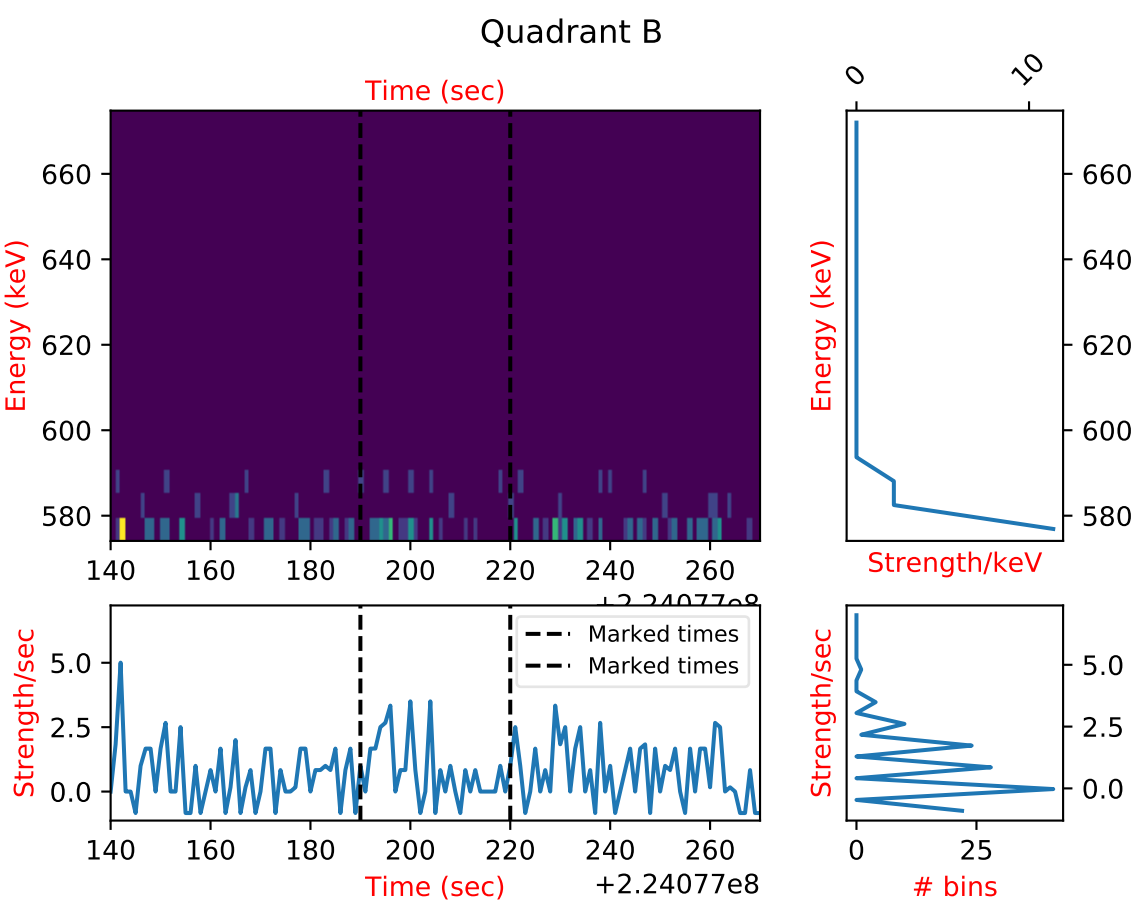

LC: Quad A
Counts/sec
400
200
0
−200
-56.7-658.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
140
160
180
200
220
240
260
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Significance
20
0
−20
Time (sec)
+2.24077e8

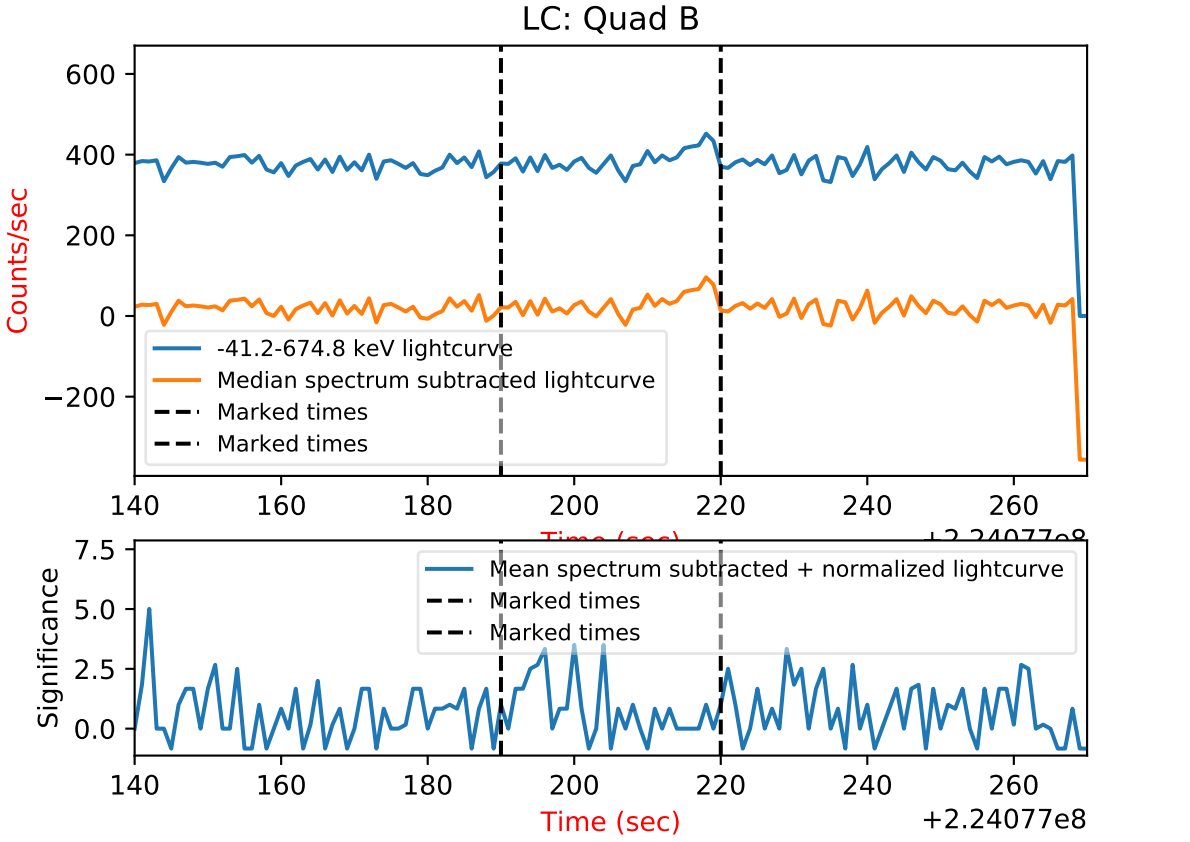

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
10^2
Counts/keV
Counts/sec
Marked times
Marked times
+2.24077e8
0
50
bins

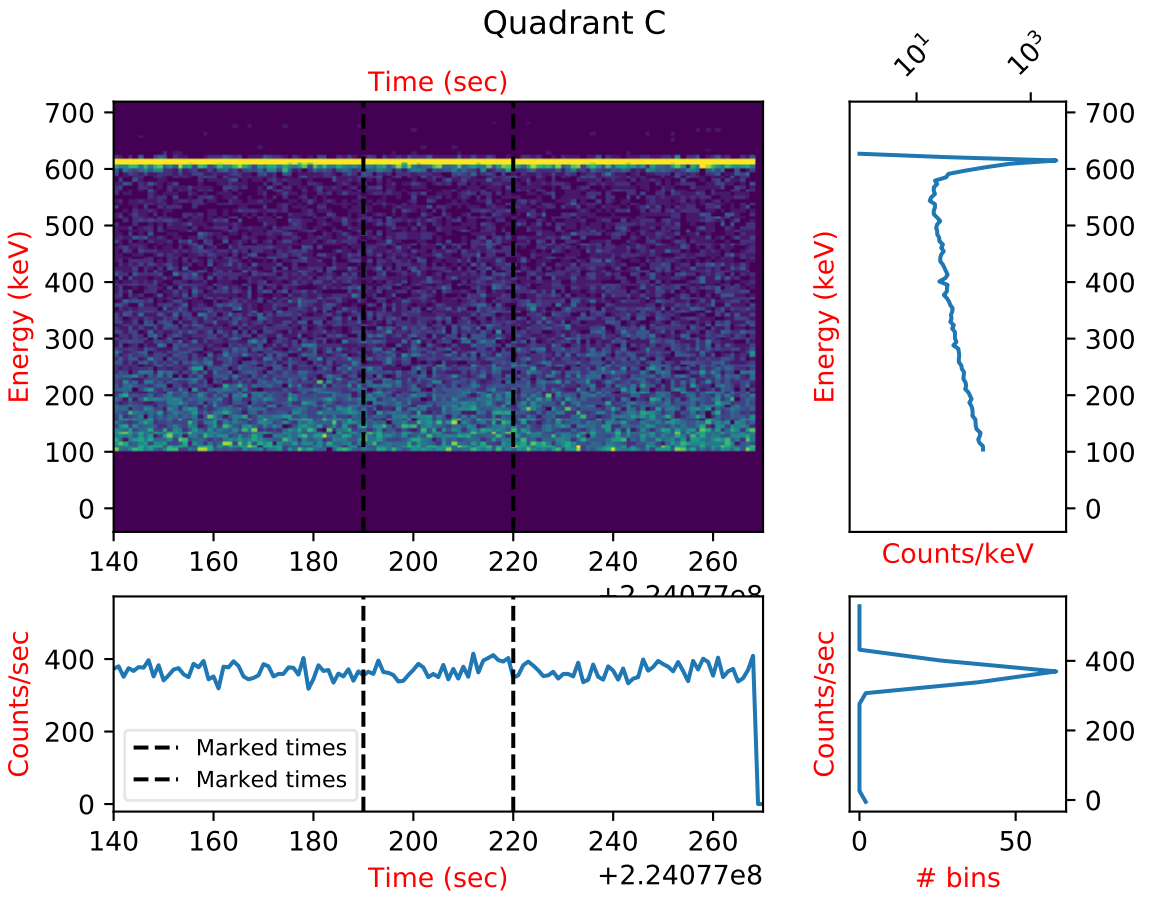

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
−20
0
20
Excess counts/keV
Excess counts/sec
200
0
−200
Marked times
Marked times
+2.24077e8
bins
50

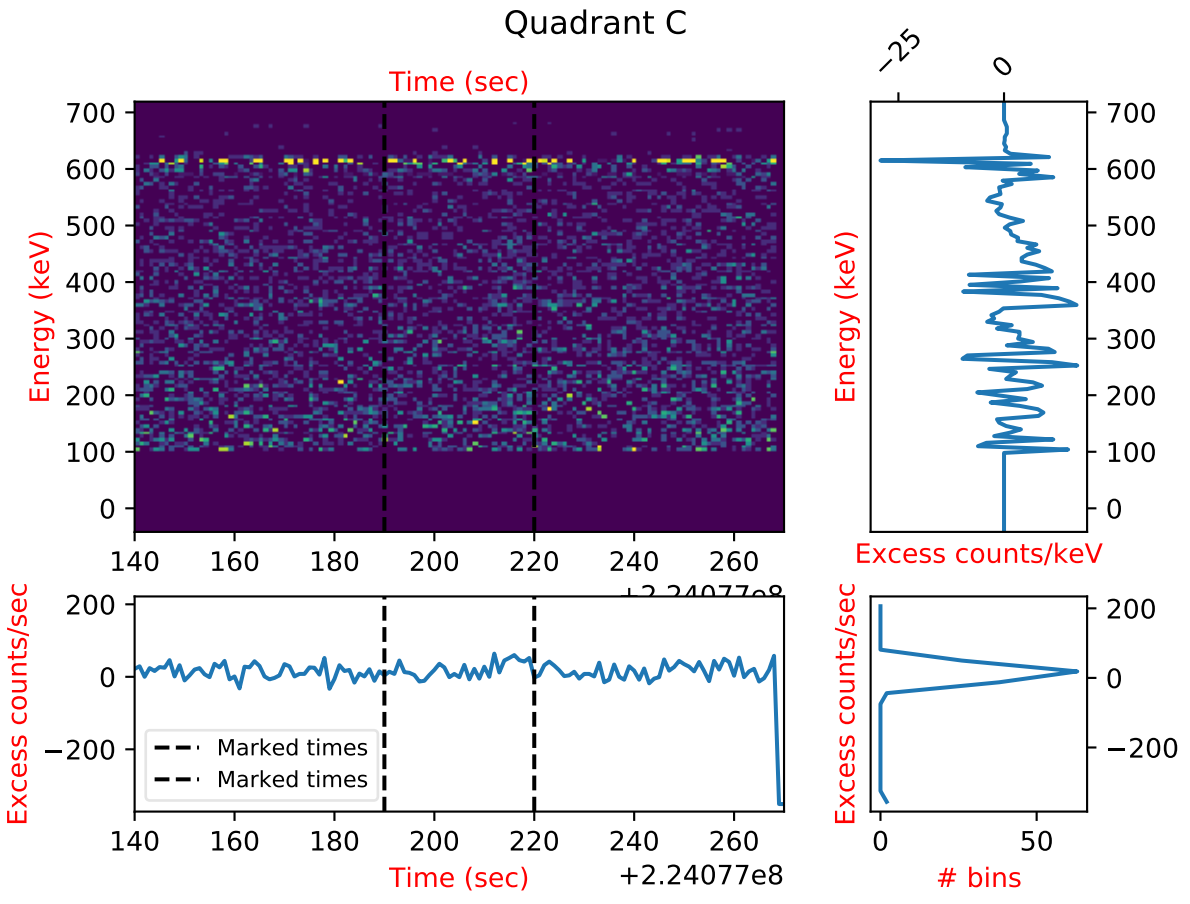

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
0
10
Strength/keV
Strength/sec
100
0
−100
Marked times
Marked times
Time (sec)
+2.24077e8
bins
50

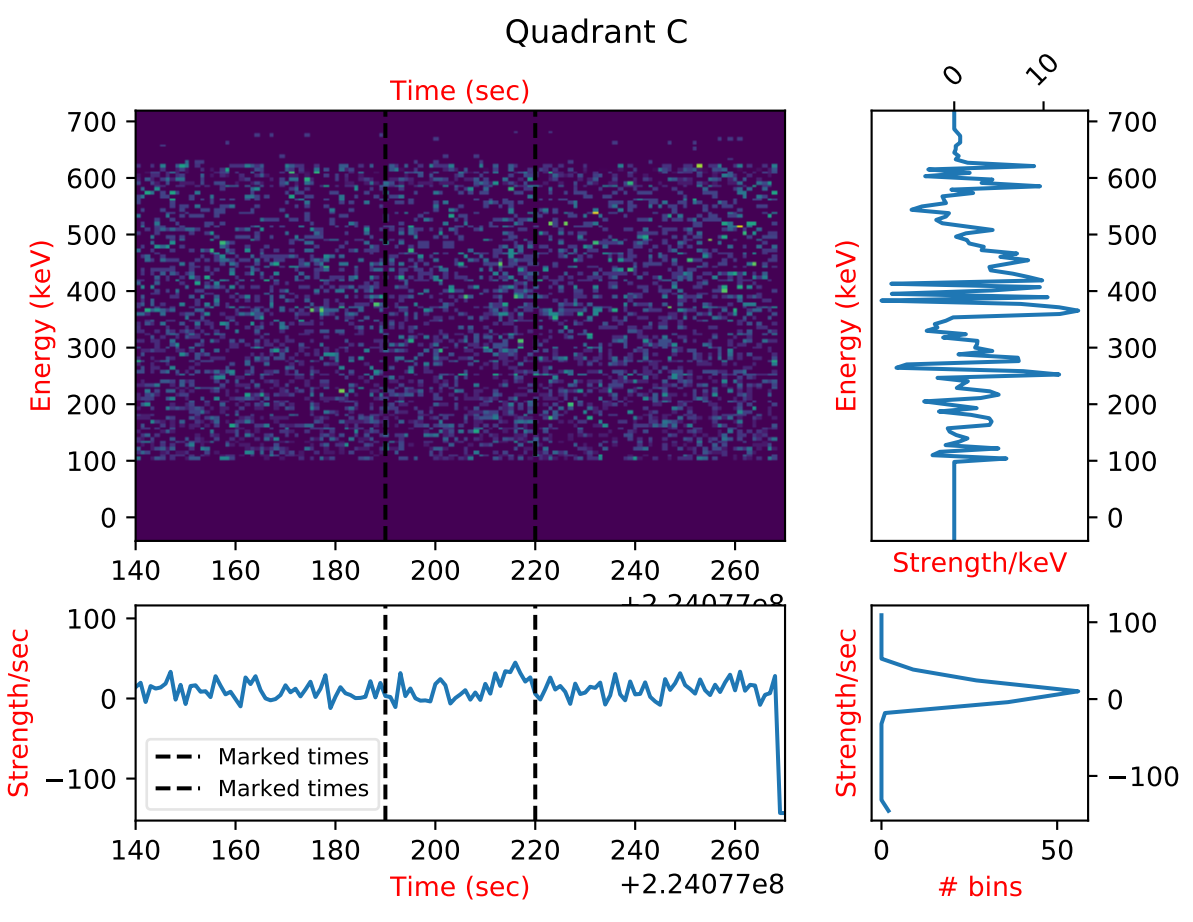

Quadrant B
Time (sec)
Energy (keV)
660
640
620
600
580
140
160
180
200
220
240
260
10^1
Counts/keV
Marked times
Marked times
Counts/sec
5
0
+2.24077e8
bins
25

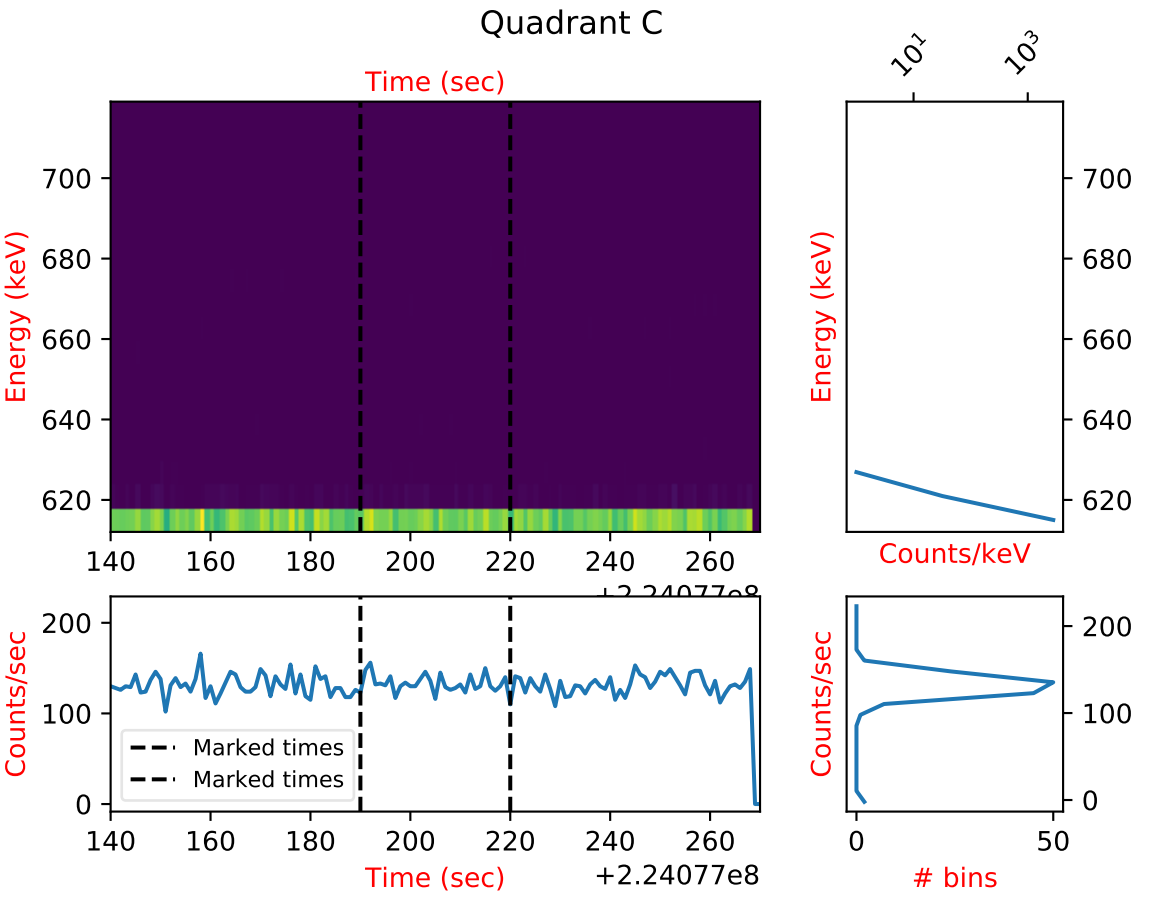

Quadrant B
Time (sec)
Energy (keV)
660
640
620
600
580
140
160
180
200
220
240
260
0
10
Strength/keV
Strength/sec
Marked times
Marked times
5.0
2.5
0.0
+2.24077e8
0
25
bins

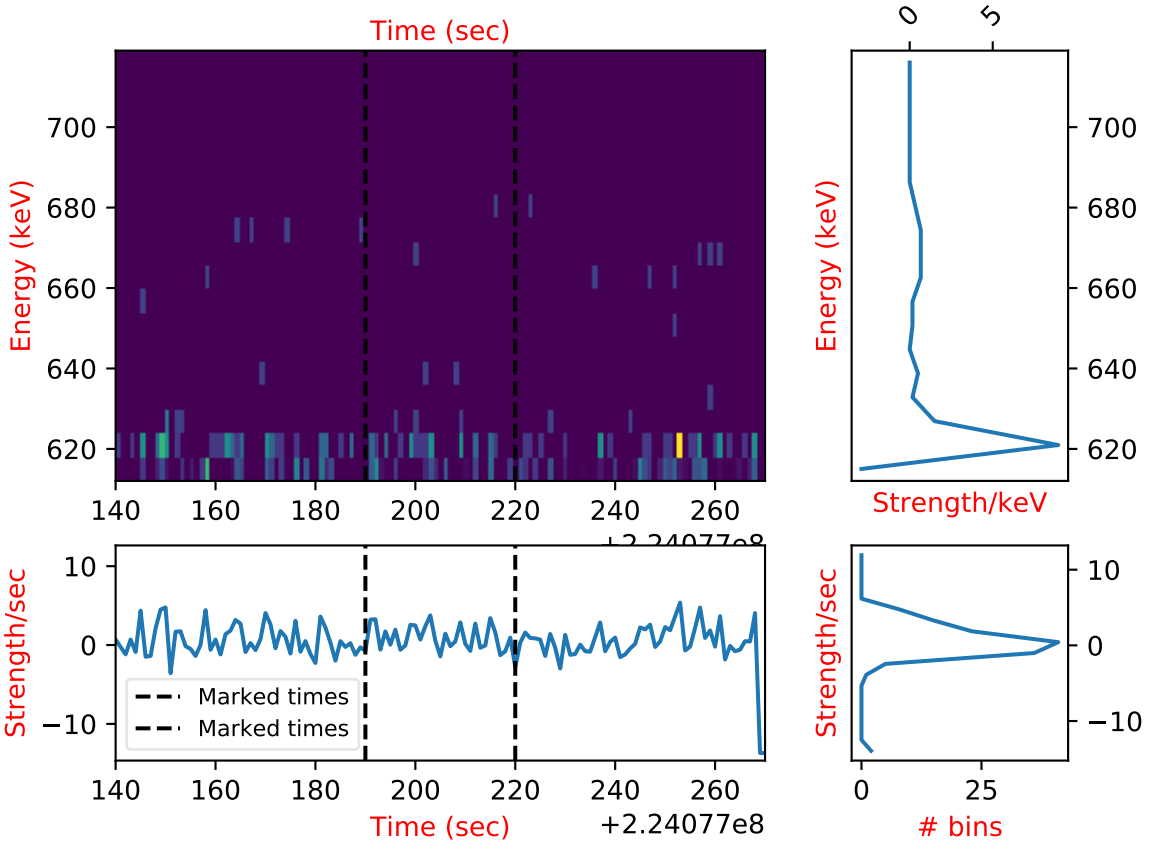

LC: Quad B
Counts/sec
600
400
200
0
−200
-41.2-674.8 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
140
160
180
200
220
240
260
Time (sec)
+2.24077e8
Significance
7.5
5.0
2.5
0.0
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
140
160
180
200
220
240
260
Time (sec)
+2.24077e8

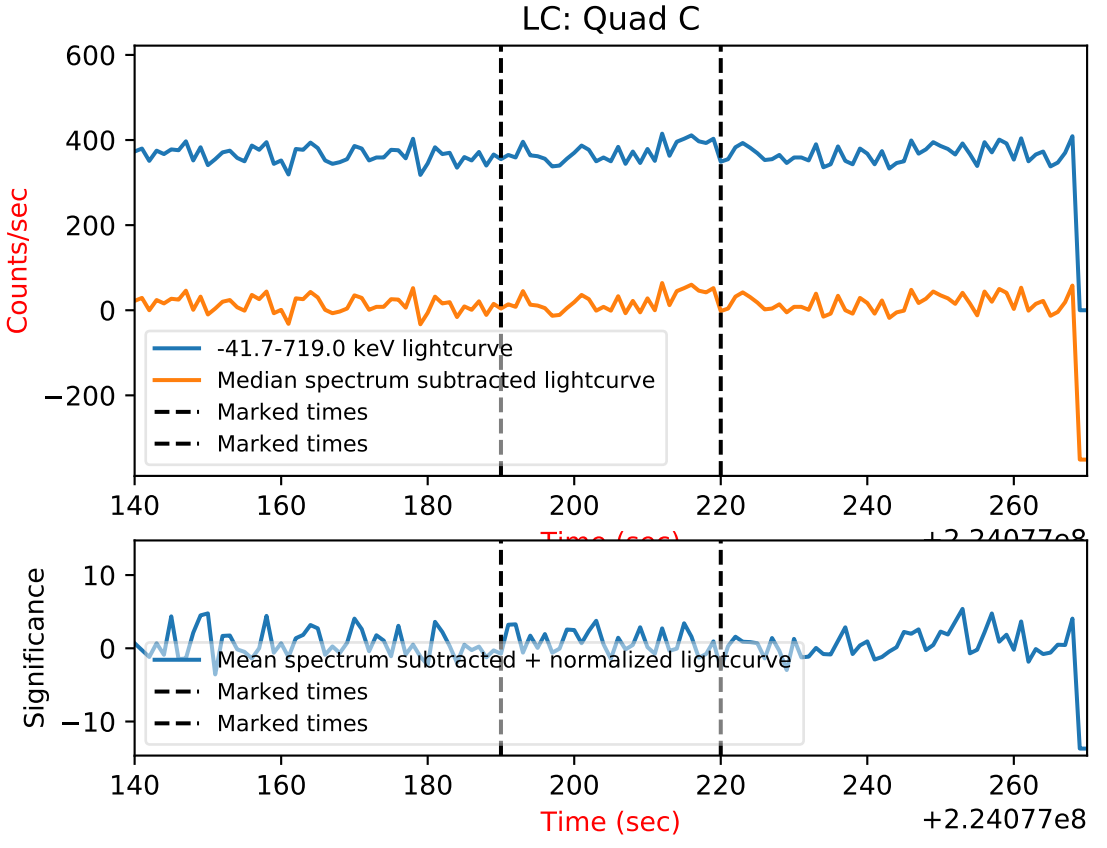

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
140
160
180
200
220
240
260
+2.24077e8
10^1
10^3
Counts/keV
Counts/sec
400
200
0
Marked times
Marked times
Time (sec)
+2.24077e8
50
bins

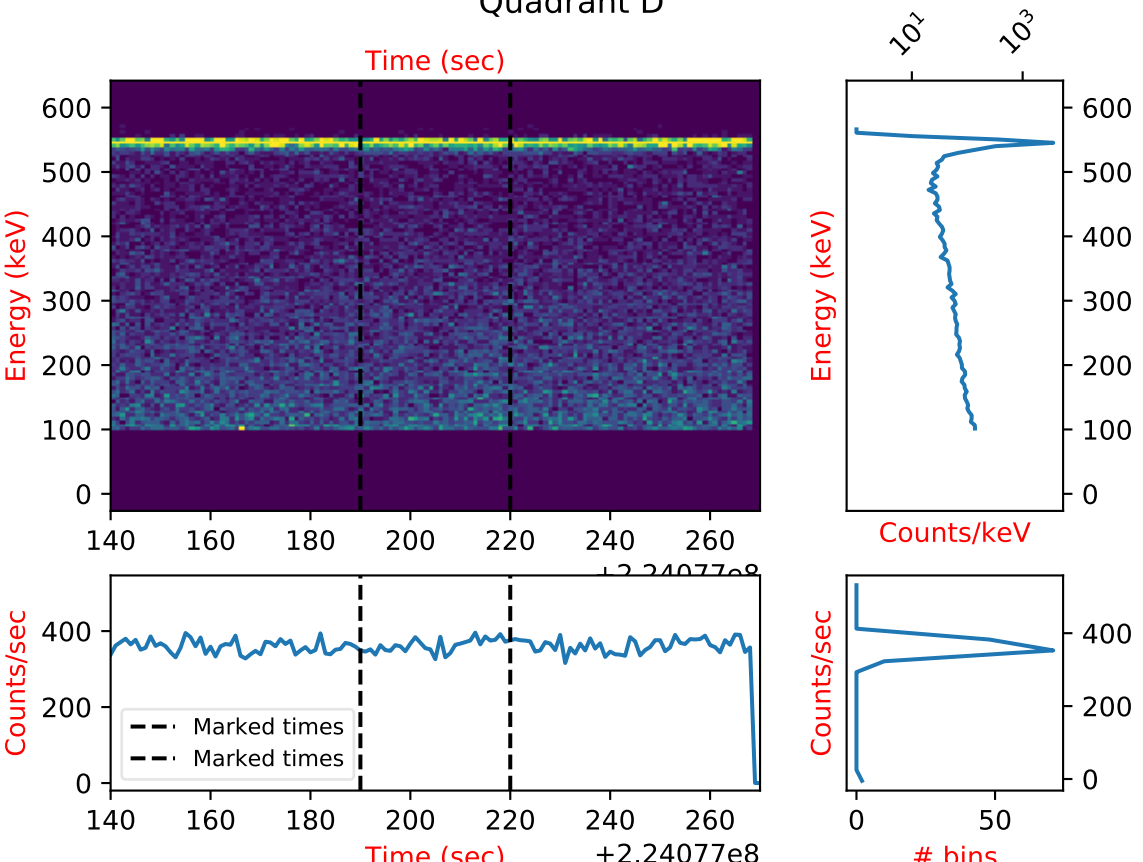

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
140
160
180
200
220
240
260
−25
0
Excess counts/keV
Excess counts/sec
200
0
−200
Marked times
Marked times
+2.24077e8
bins
50

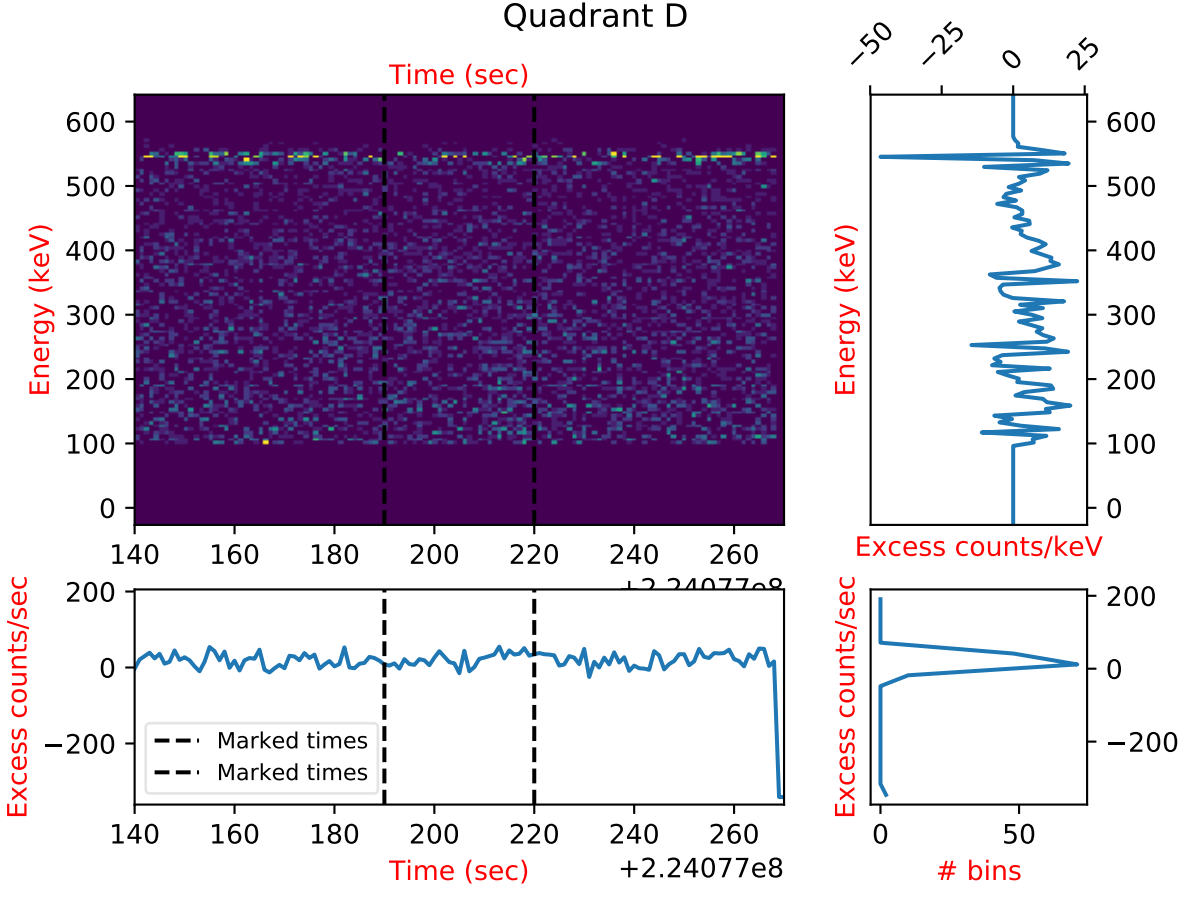

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
140
160
180
200
220
240
260
0
10
Strength/keV
Strength/sec
100
0
−100
Marked times
Marked times
+2.24077e8
50
bins

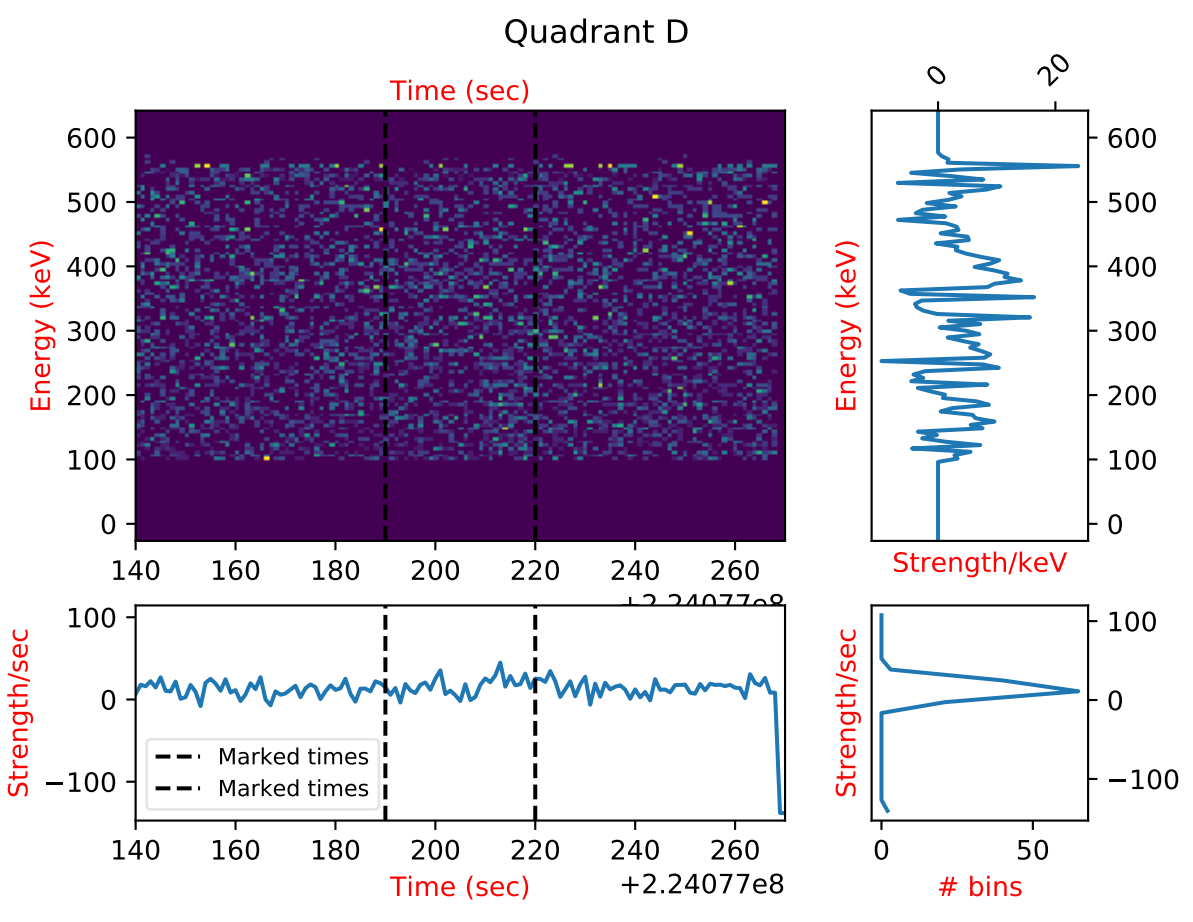

Quadrant C
Time (sec)
Energy (keV)
700
680
660
640
620
140
160
180
200
220
240
260
+2.24077e8
10^1
10^3
Counts/keV
Counts/sec
200
100
0
Marked times
Marked times
Time (sec)
+2.24077e8
50
bins

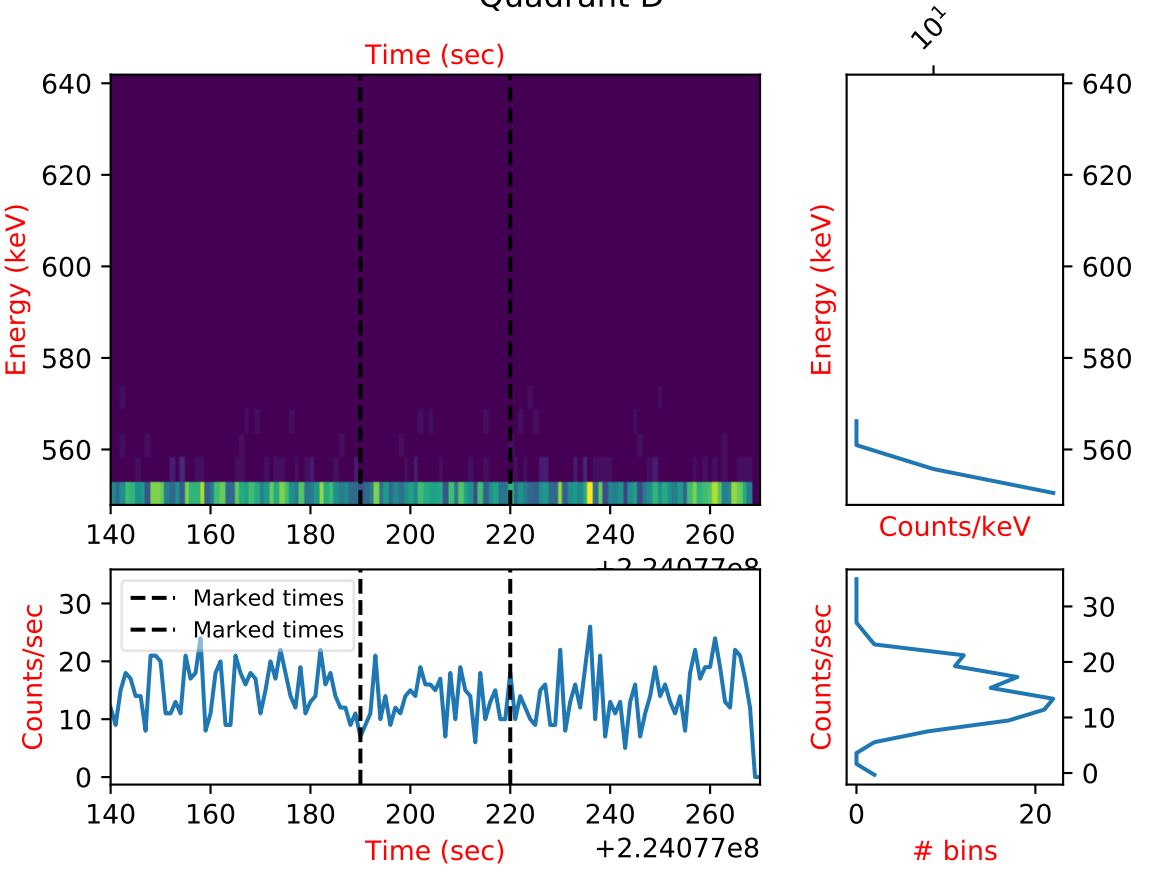

Quadrant C
Time (sec)
Energy (keV)
700
680
660
640
620
140
160
180
200
220
240
260
+2.24077e8
0
5
Strength/keV
Strength/sec
10
0
−10
Marked times
Marked times
Time (sec)
+2.24077e8
25
bins

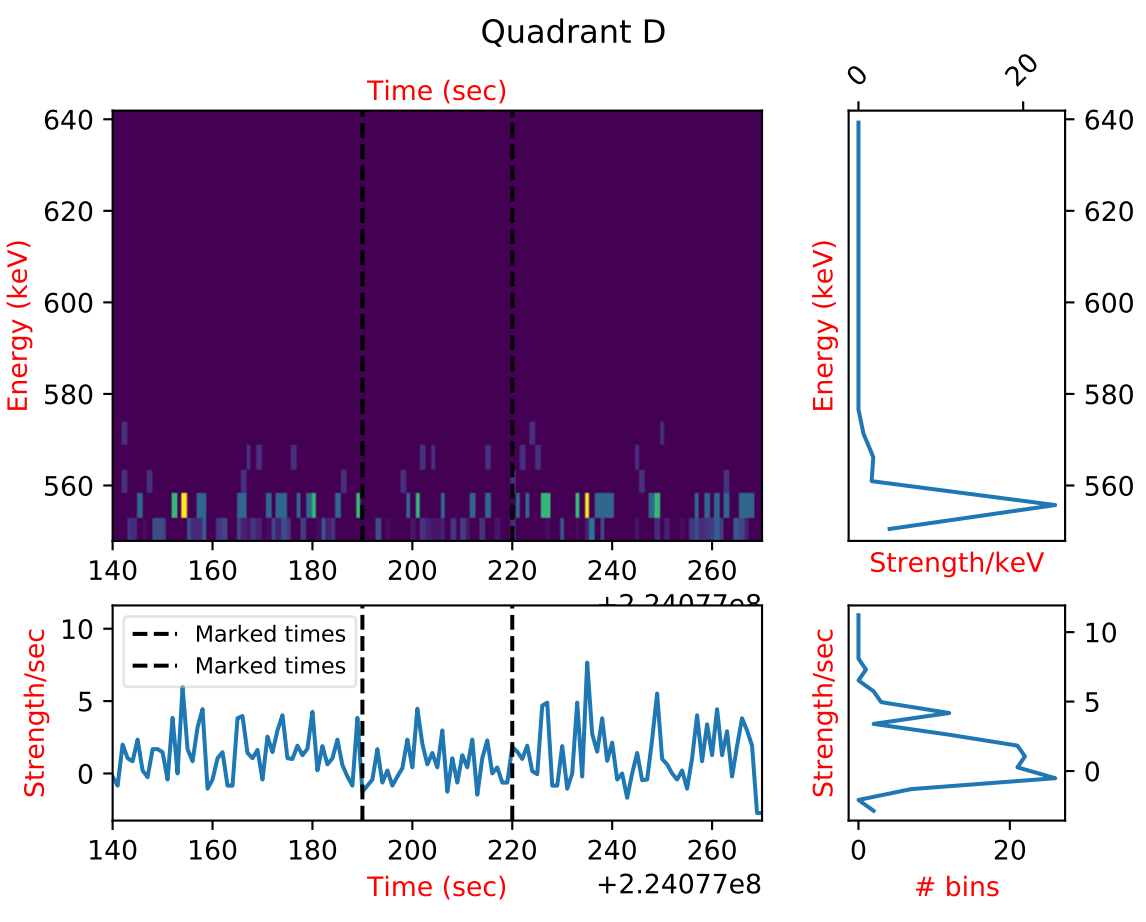

LC: Quad C
Counts/sec
600
400
200
0
−200
-41.7-719.0 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
140
160
180
200
220
240
260
+2.24077e8
Significance
10
0
−10
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Time (sec)

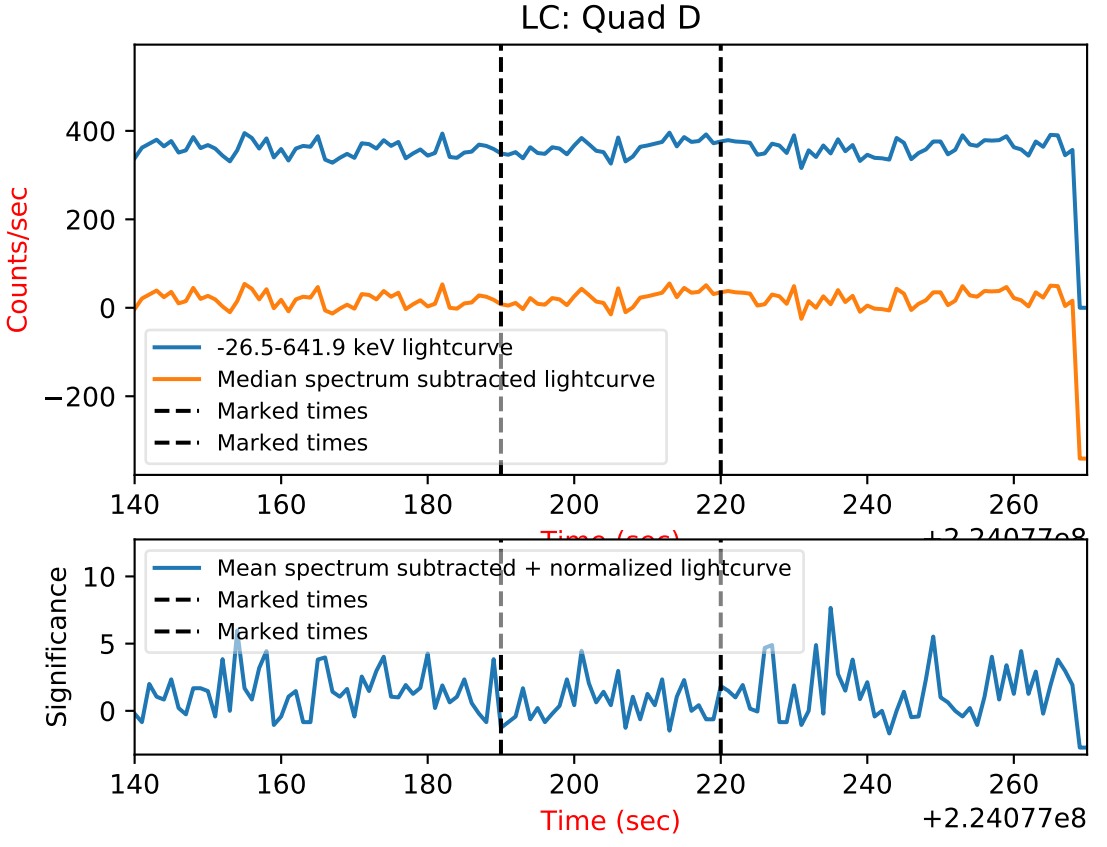

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
10^1
10^3
Counts/keV
Counts/sec
400
200
0
Marked times
Marked times
+2.24077e8
50
bins

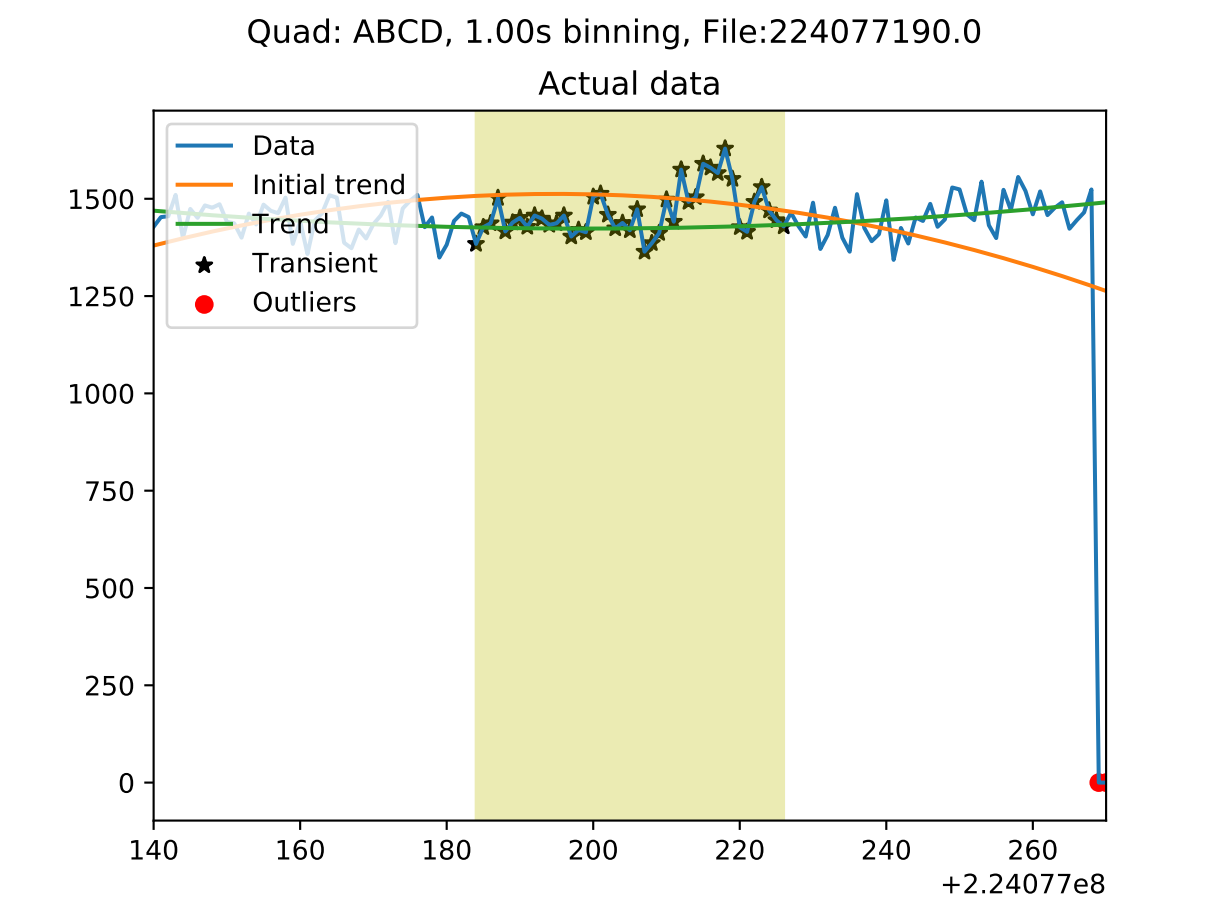

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
−50
−25
0
25
Excess counts/keV
Excess counts/sec
200
0
−200
Marked times
Marked times
+2.24077e8
bins
50

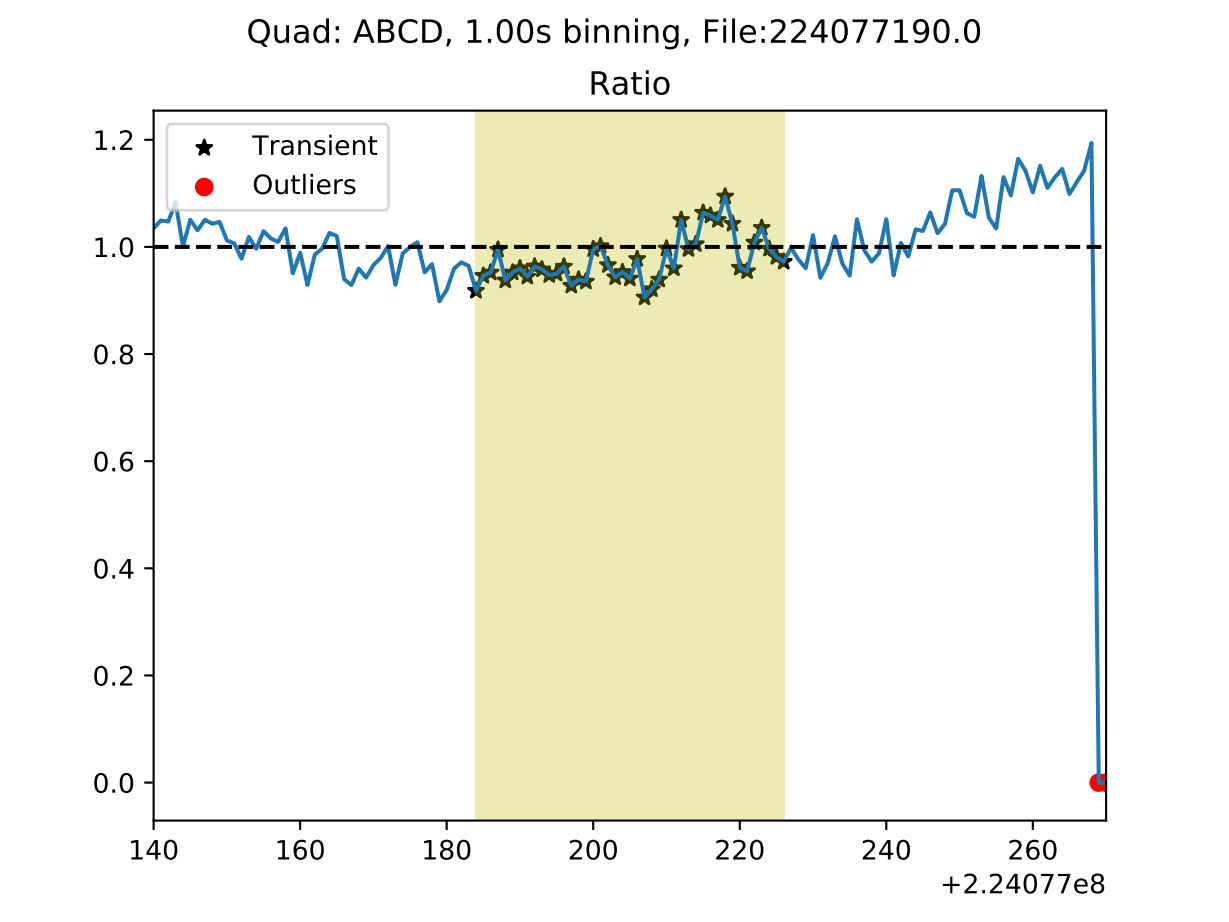

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
140
160
180
200
220
240
260
0
20
Strength/keV
Strength/sec
100
0
−100
Marked times
Marked times
Time (sec)
+2.24077e8
bins
50

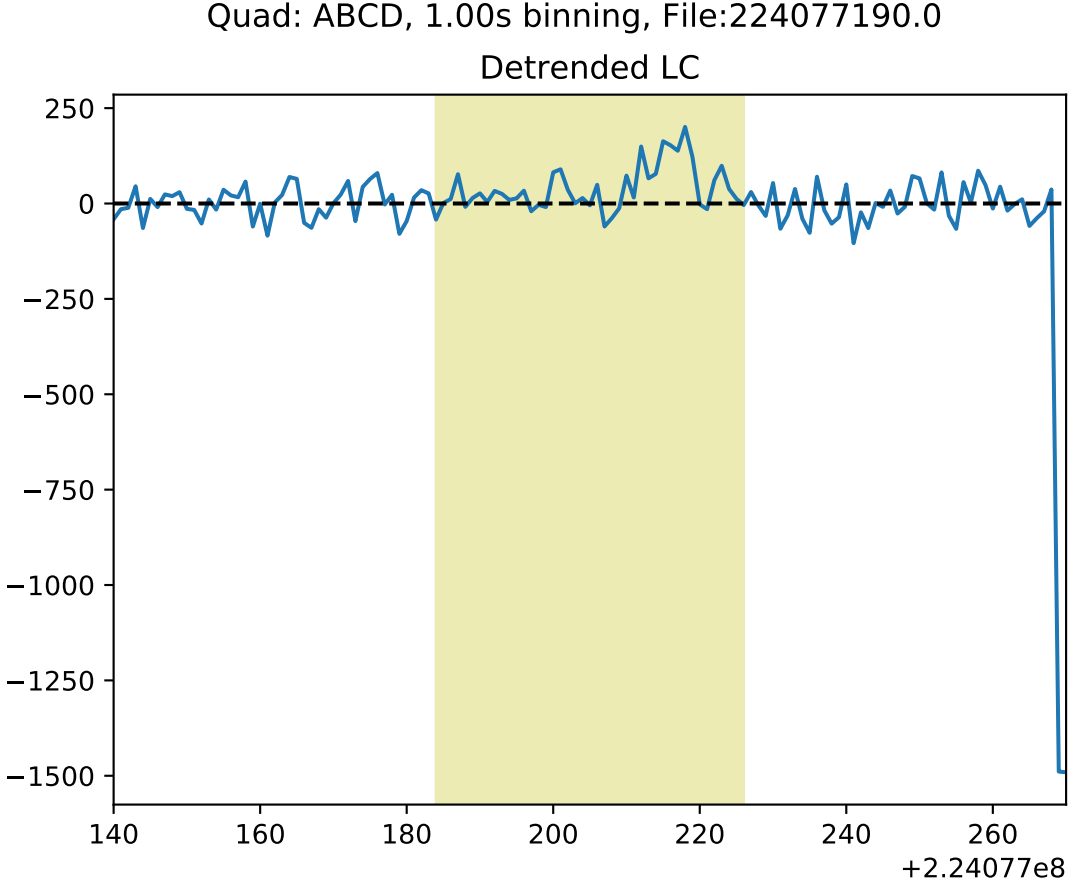

Quadrant D
Time (sec)
Energy (keV)
640
620
600
580
560
140
160
180
200
220
240
260
10^1
Counts/keV
Marked times
Marked times
Counts/sec
30
20
10
0
+2.24077e8
bins


Quadrant D
Time (sec)
Energy (keV)
640
620
600
580
560
140
160
180
200
220
240
260
0
20
Strength/keV
Strength/sec
10
5
0
Marked times
Marked times
+2.24077e8
bins

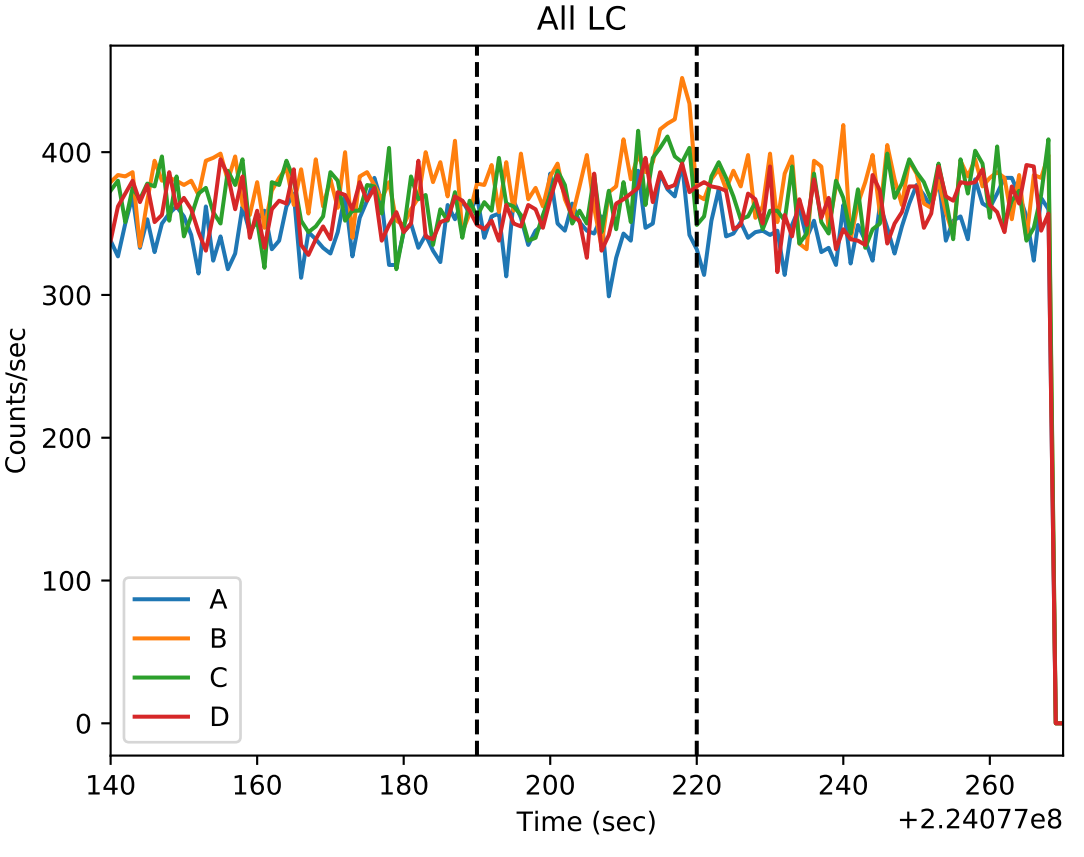

LC: Quad D
Counts/sec
400
200
0
−200
-26.5-641.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
140
160
180
200
220
240
260
+2.24077e8
Significance
10
5
0
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Time (sec)


Quad: ABCD, 1.00s binning, File:224077190.0
Actual data
Data
Initial trend
Trend
Transient
Outliers
1500
1250
1000
750
500
250
0
140
160
180
200
220
240
260
+2.24077e8


Quad: ABCD, 1.00s binning, File:224077190.0
Ratio
Transient
Outliers
1.2
1.0
0.8
0.6
0.4
0.2
0.0
140
160
180
200
220
240
260
+2.24077e8


Quad: ABCD, 1.00s binning, File:224077190.0
Detrended LC
250
0
−250
−500
−750
−1000
−1250
−1500
140
160
180
200
220
240
260
+2.24077e8

Quad: ABCD, 1.00s binning, File:224077190.0
T90 measurement
1.0
0.5
0.0
−0.5
−1.0
Without outlier rejection
With outlier rejection
T90 = 35.29
140
160
180
200
220
240
260
+2.24077e8


All LC
Counts/sec
400
300
200
100
0
A
B
C
D
140
160
180
200
220
240
260
Time (sec)
+2.24077e8