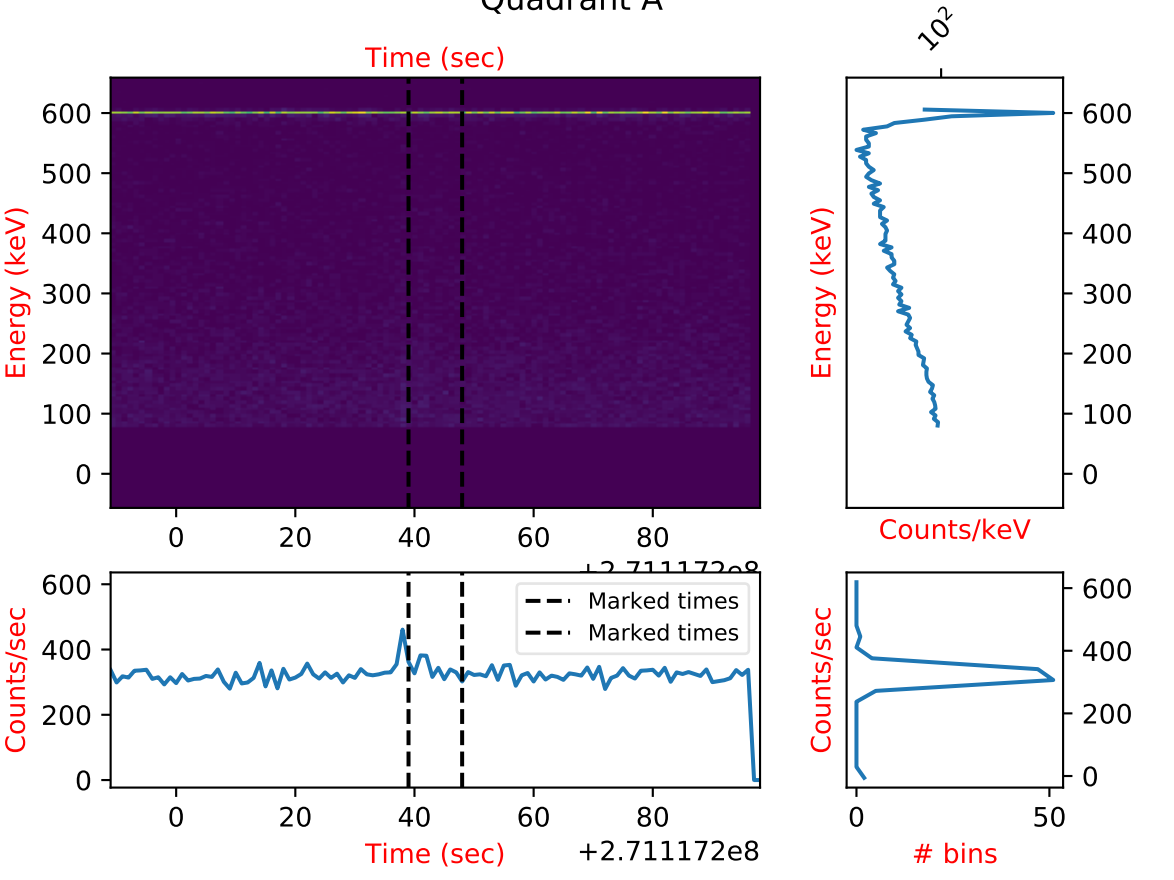
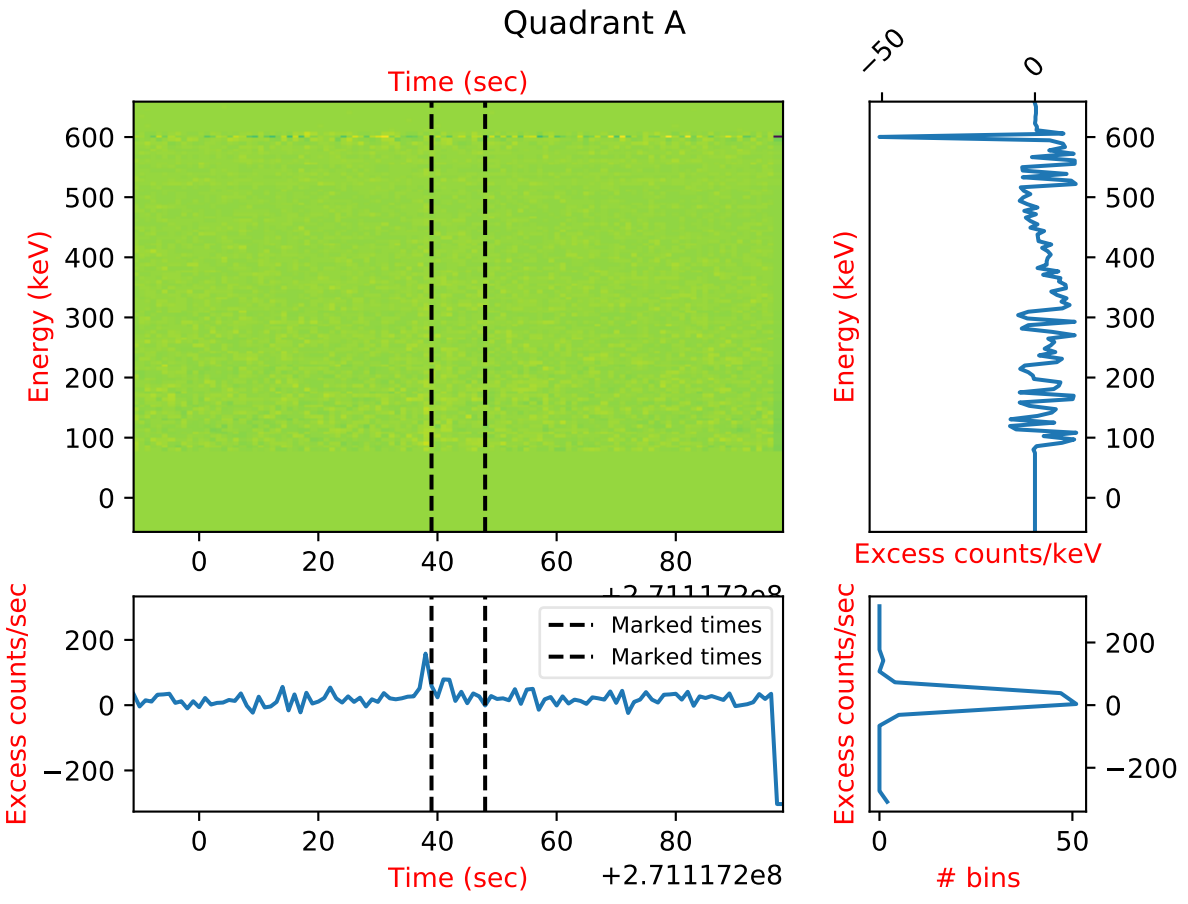
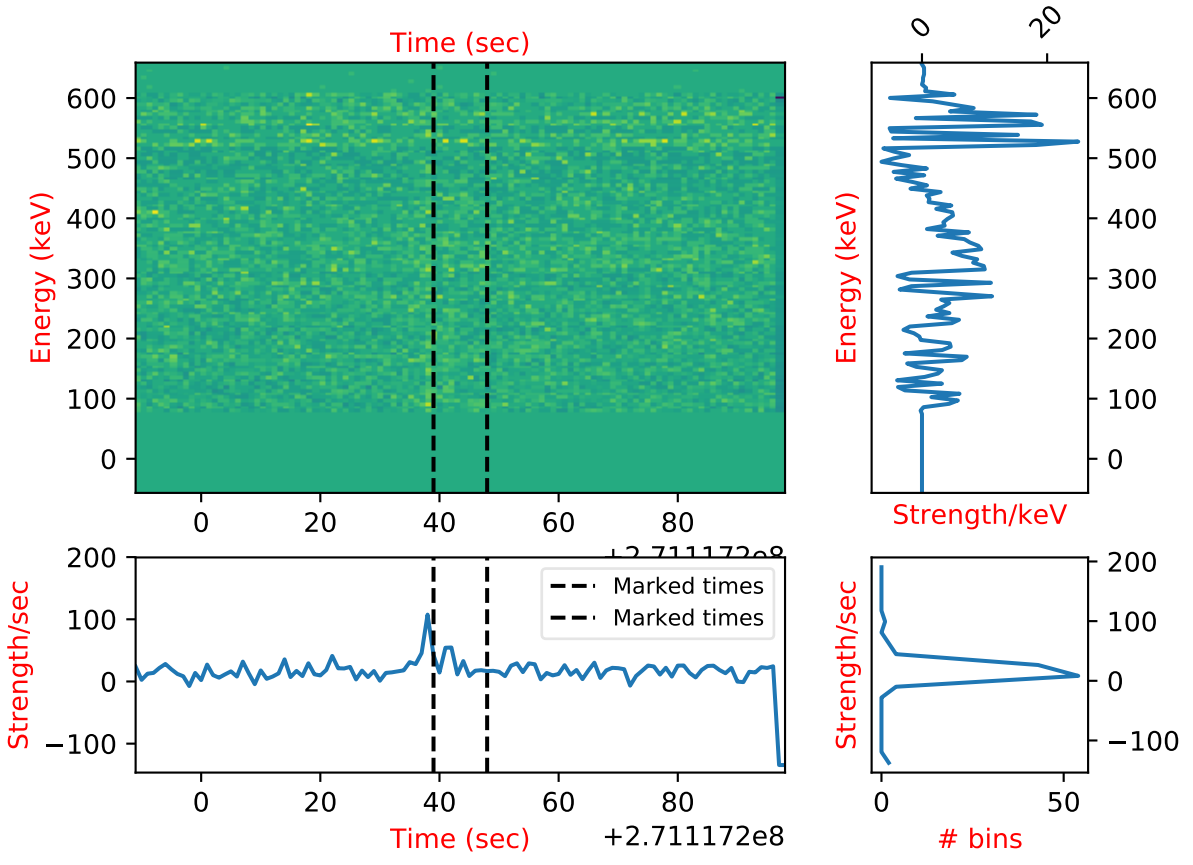
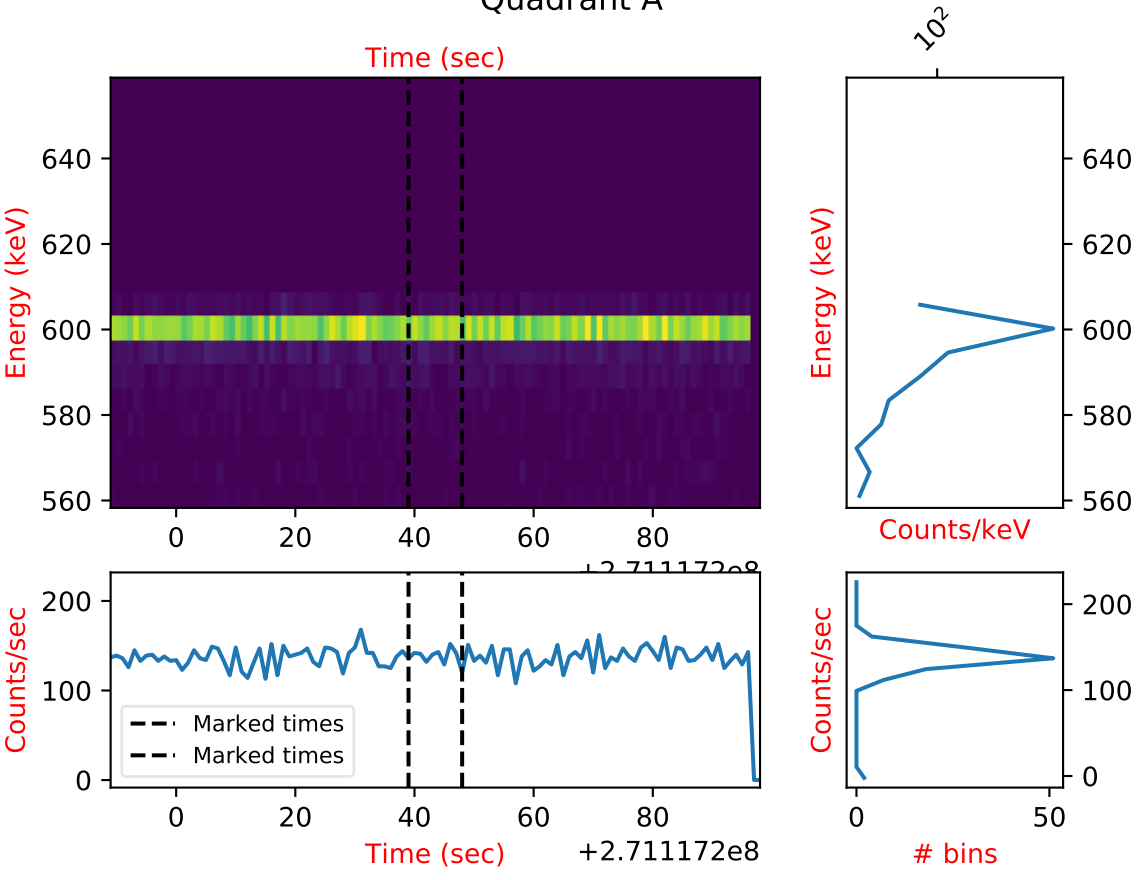
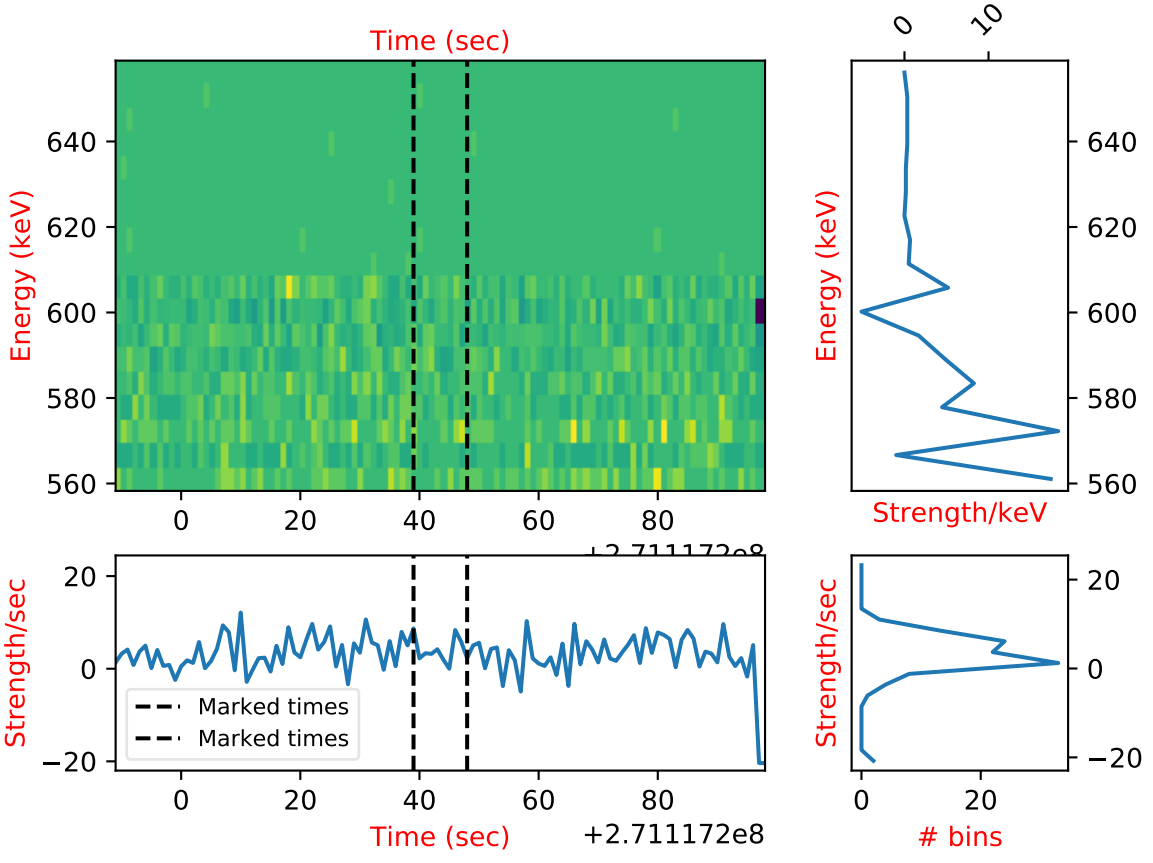

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
0
20
40
60
80
10^2
Counts/keV
Counts/sec
Marked times
Marked times
+2.711172e8
bins
50

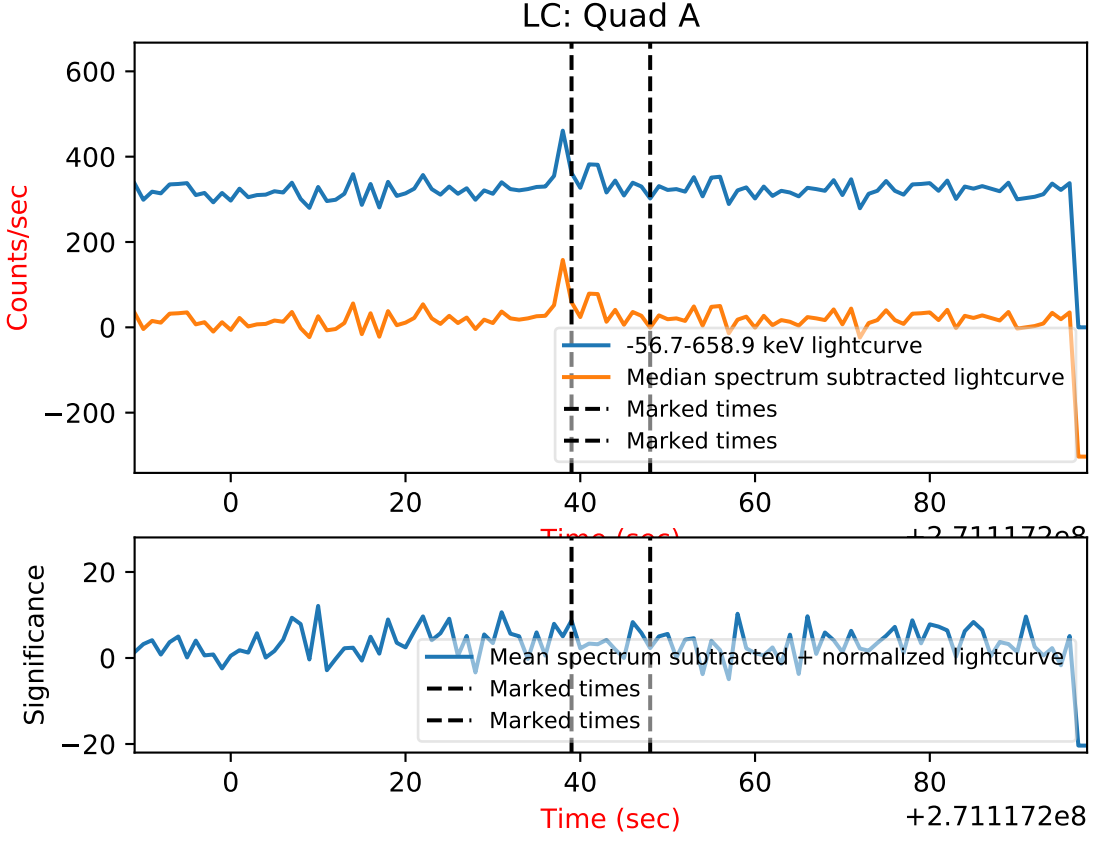

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
0
20
40
60
80
−50
0
Excess counts/keV
Excess counts/sec
200
0
−200
Marked times
Marked times
+2.711172e8
bins
50

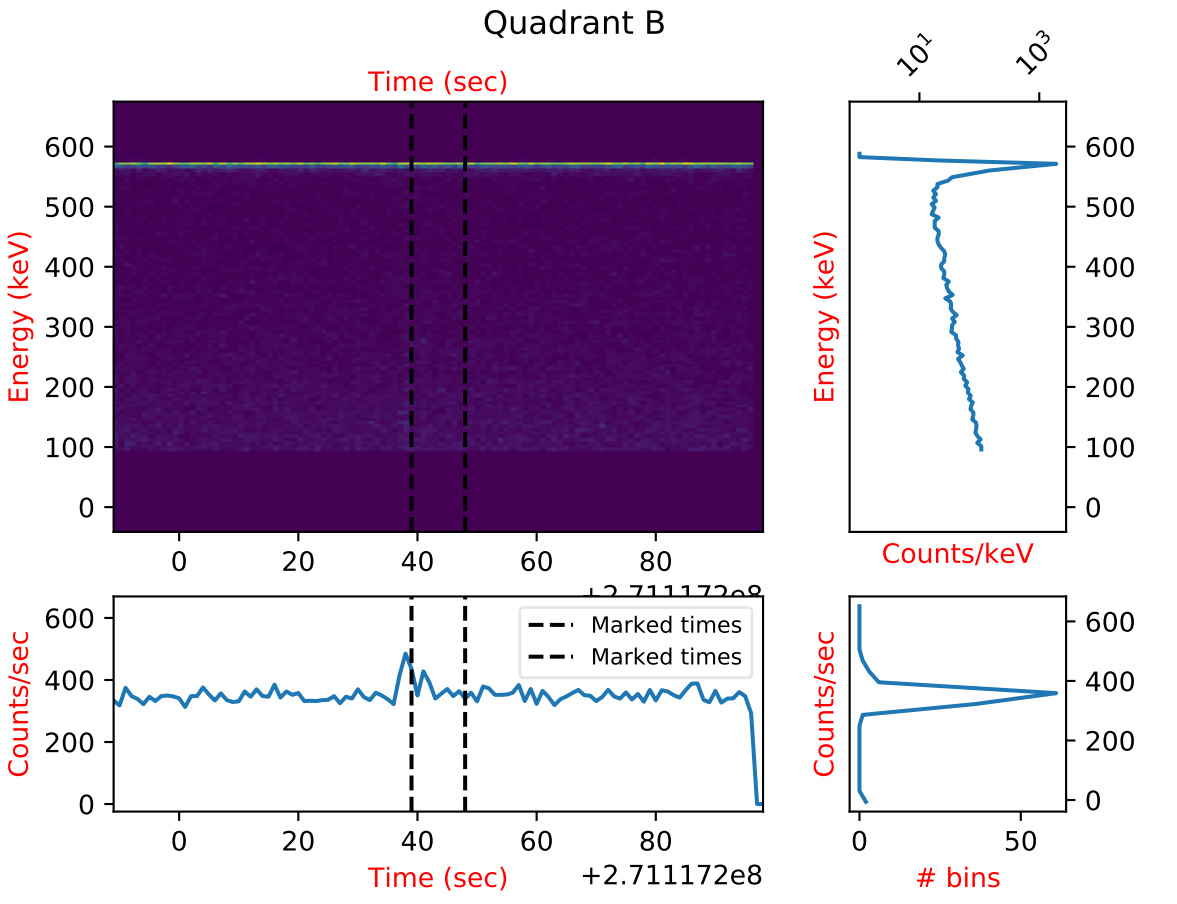


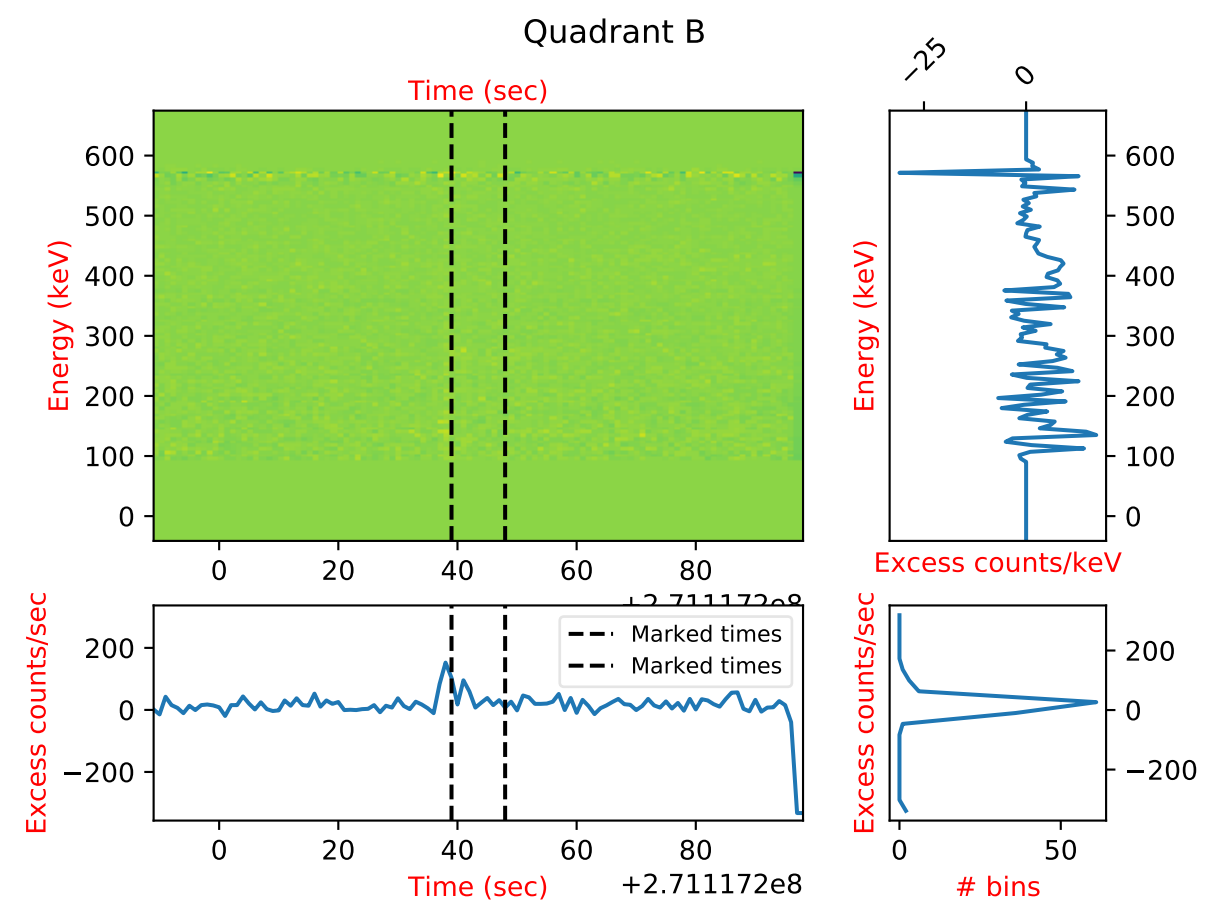
Quadrant A
Time (sec)
Energy (keV)
Strength/keV
Strength/sec
Marked times
Marked times
Time (sec)
+2.711172e8
bins

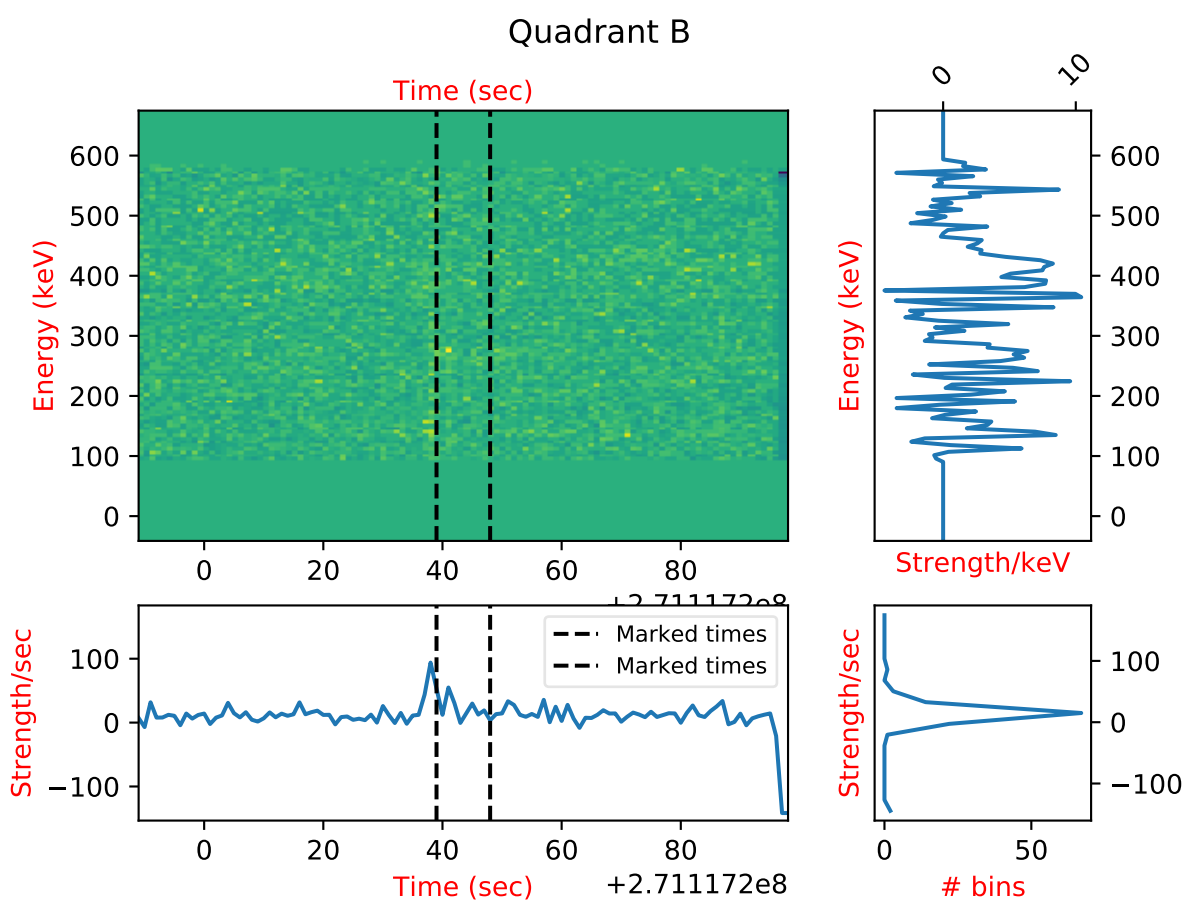

Quadrant A
Time (sec)
Energy (keV)
640
620
600
580
560
0
20
40
60
80
10^2
Counts/keV
+2.711172e8
Counts/sec
200
100
0
Marked times
Marked times
Time (sec)
+2.711172e8
50
bins

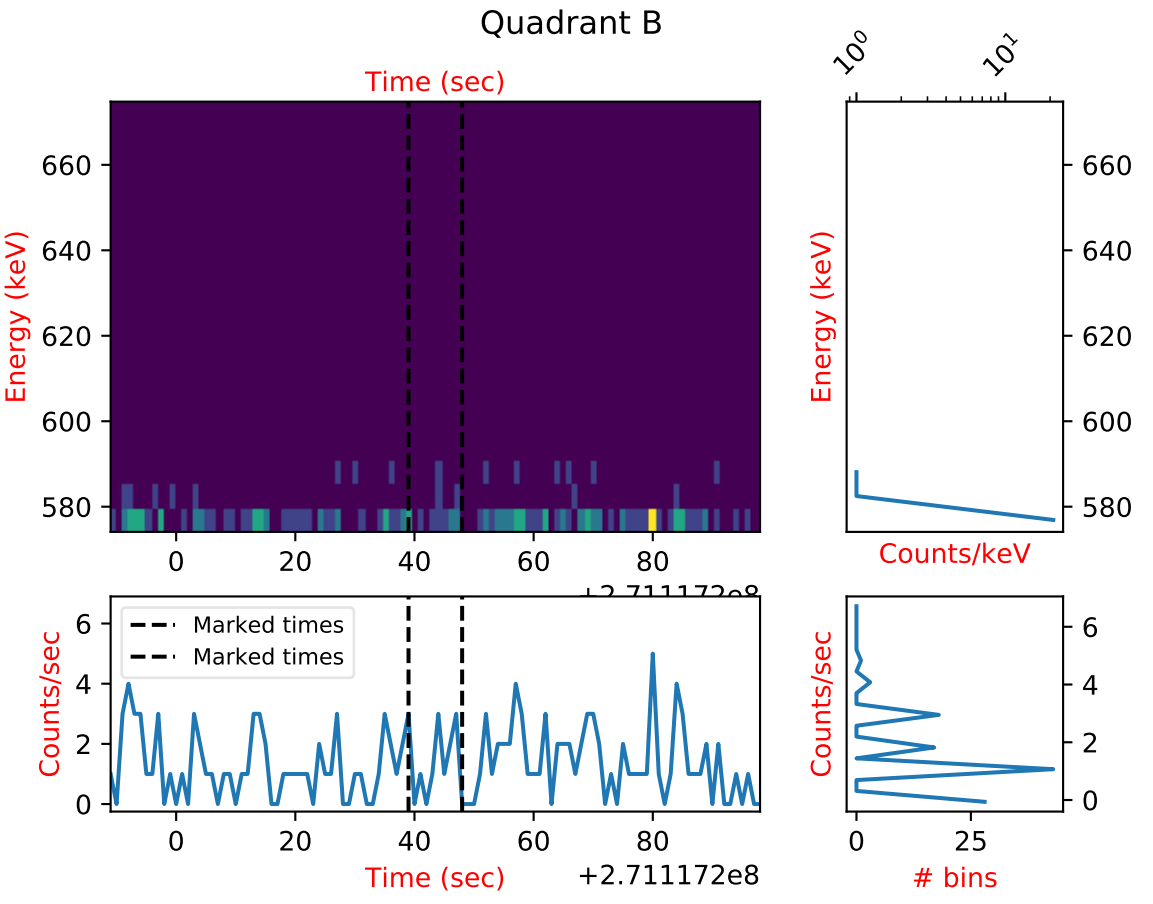

Quadrant A
Time (sec)
Energy (keV)
640
620
600
580
560
0
20
40
60
80
0
10
Strength/keV
Strength/sec
20
0
−20
Marked times
Marked times
+2.711172e8
bins

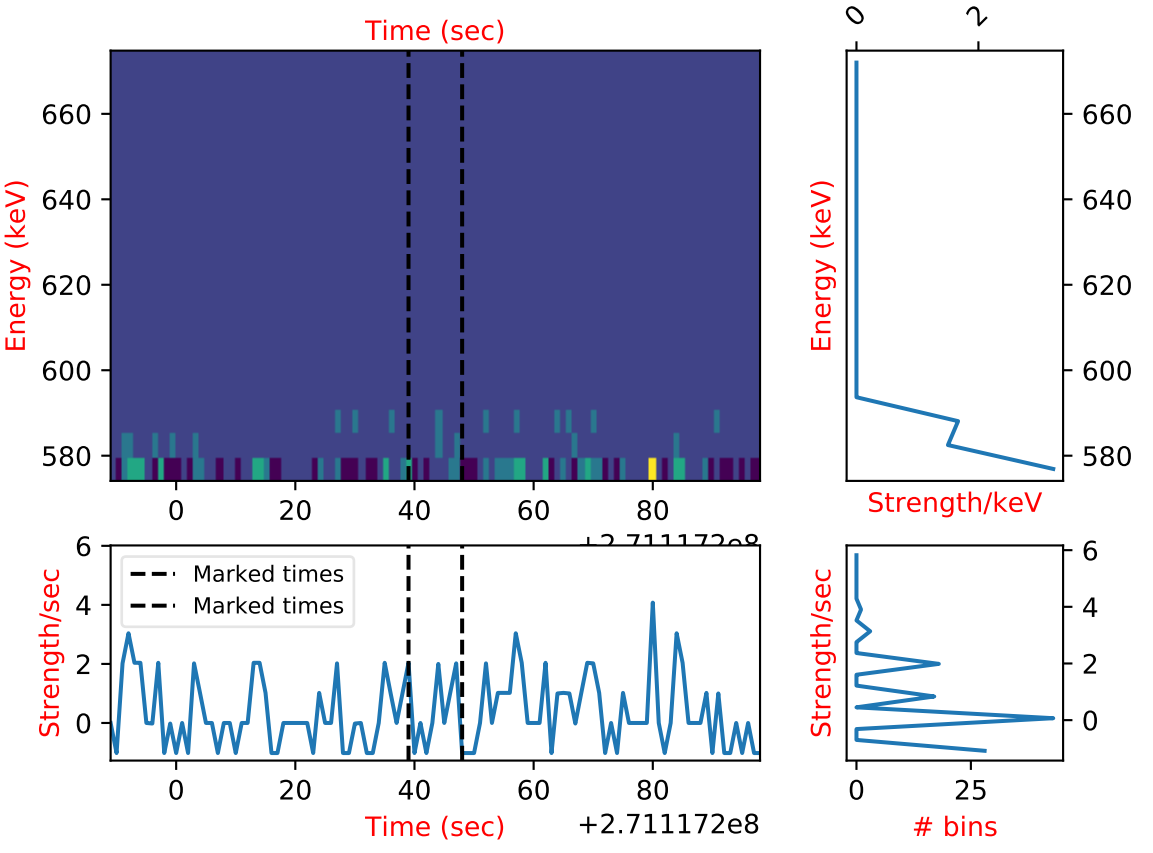

LC: Quad A
Counts/sec
600
400
200
0
−200
-56.7-658.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
0
20
40
60
80
Significance
20
0
−20
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Time (sec)
+2.711172e8

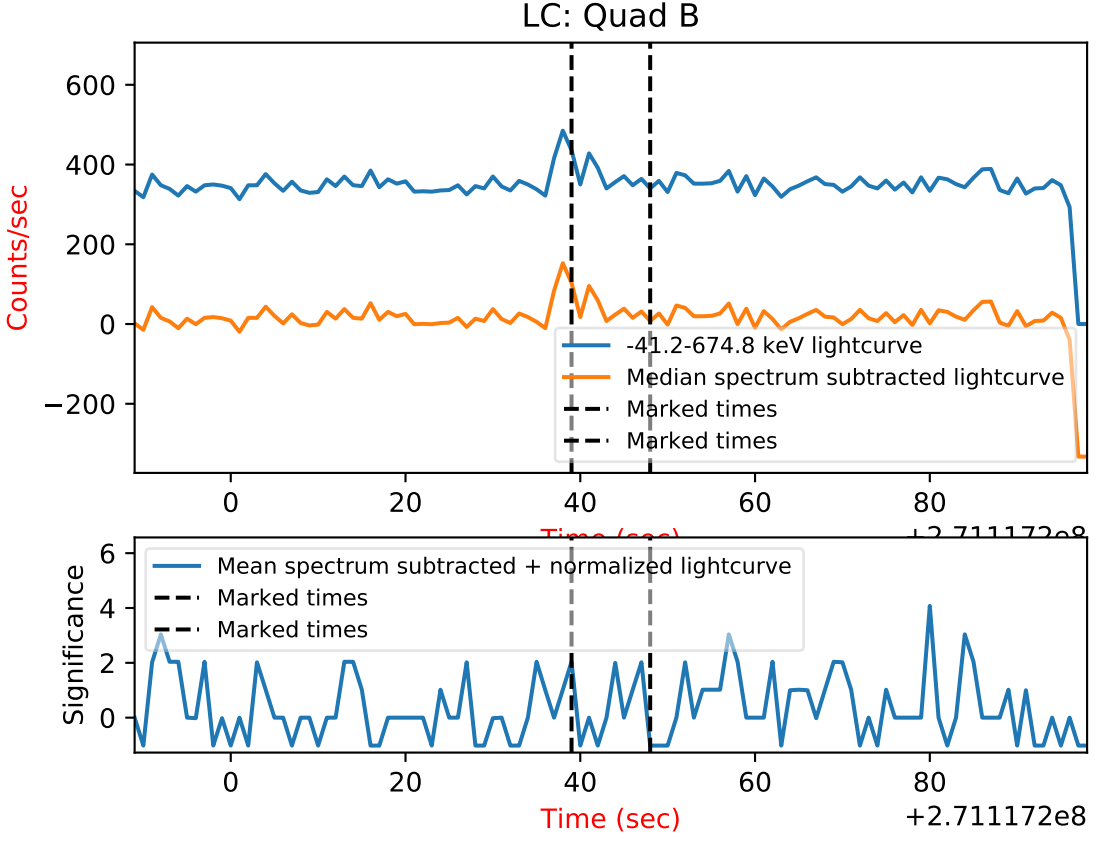

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
0
20
40
60
80
10^1
10^3
Counts/keV
Counts/sec
Marked times
Marked times
+2.711172e8
bins
50

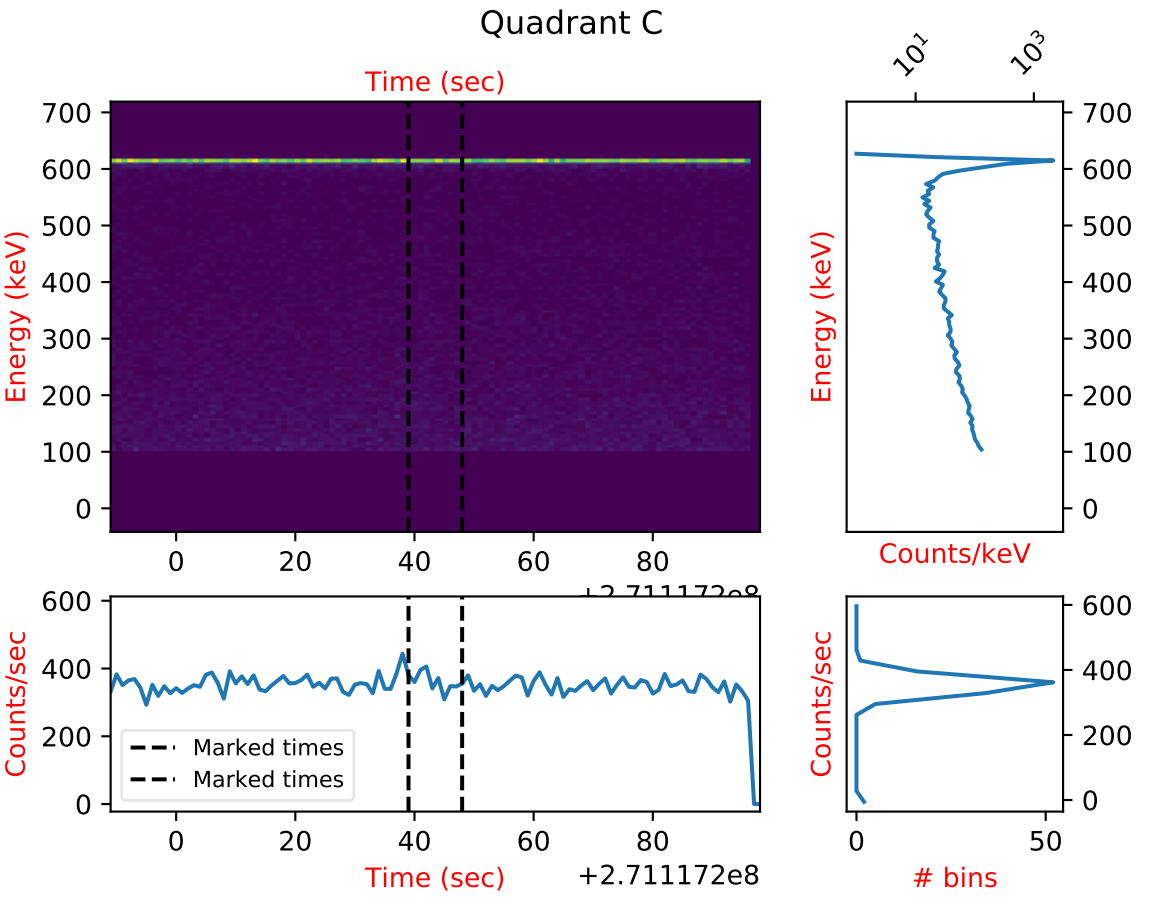

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
0
20
40
60
80
−25
0
Excess counts/keV
Excess counts/sec
200
0
−200
Marked times
Marked times
+2.711172e8
bins
50

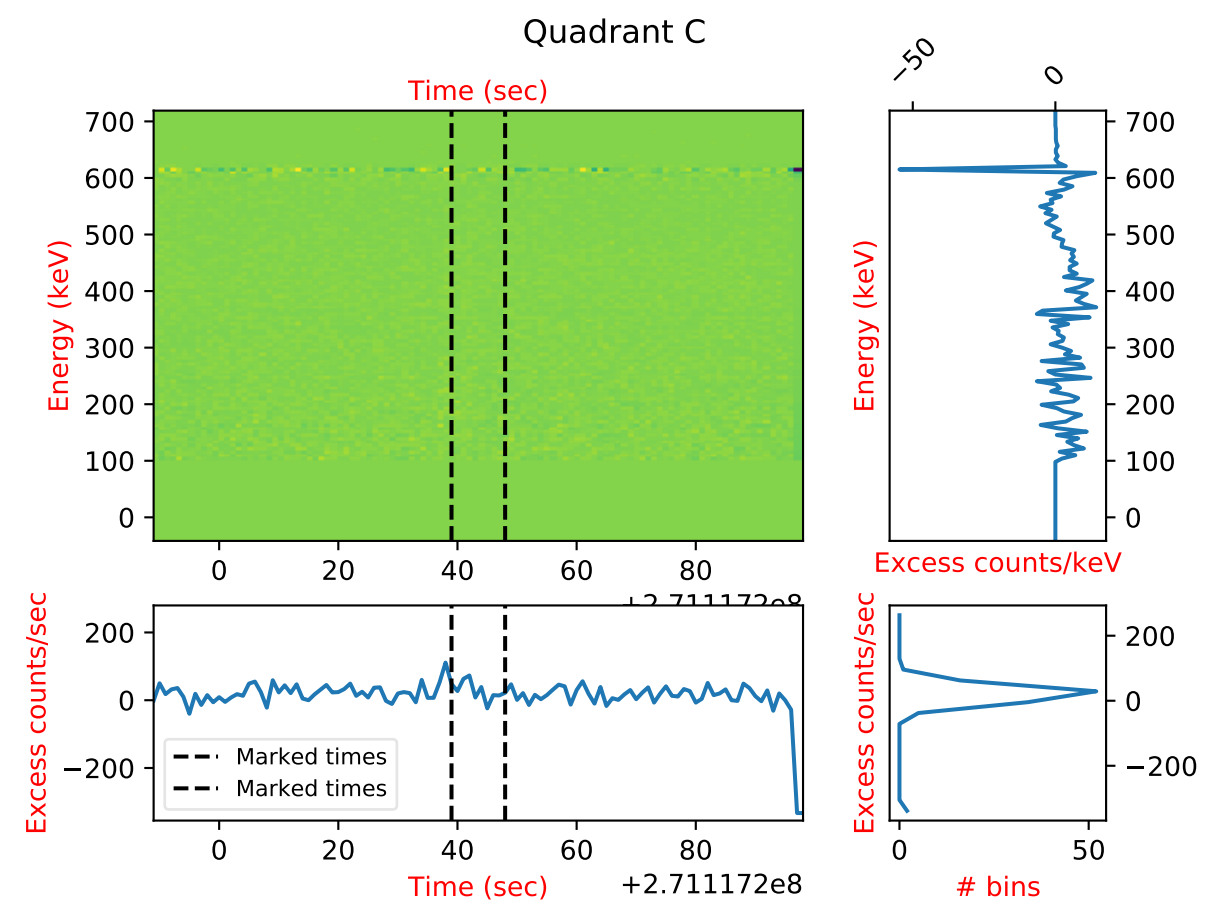

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
0
20
40
60
80
+2.711172e8
0
10
Strength/keV
Strength/sec
100
0
−100
Marked times
Marked times
Time (sec)
+2.711172e8
50
bins

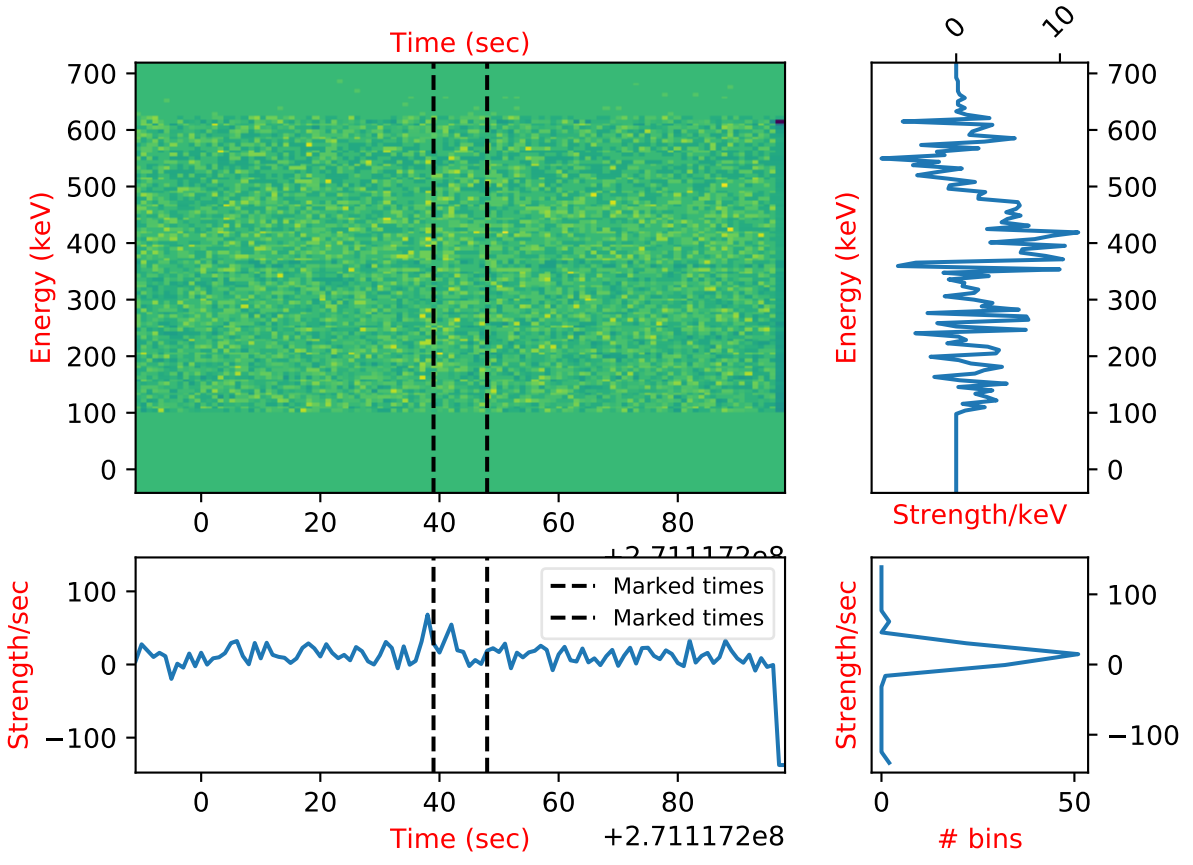

Quadrant B
Time (sec)
Energy (keV)
660
640
620
600
580
0
20
40
60
80
10^0
10^1
Counts/keV
Marked times
Marked times
Counts/sec
6
4
2
0
+2.711172e8
bins
25

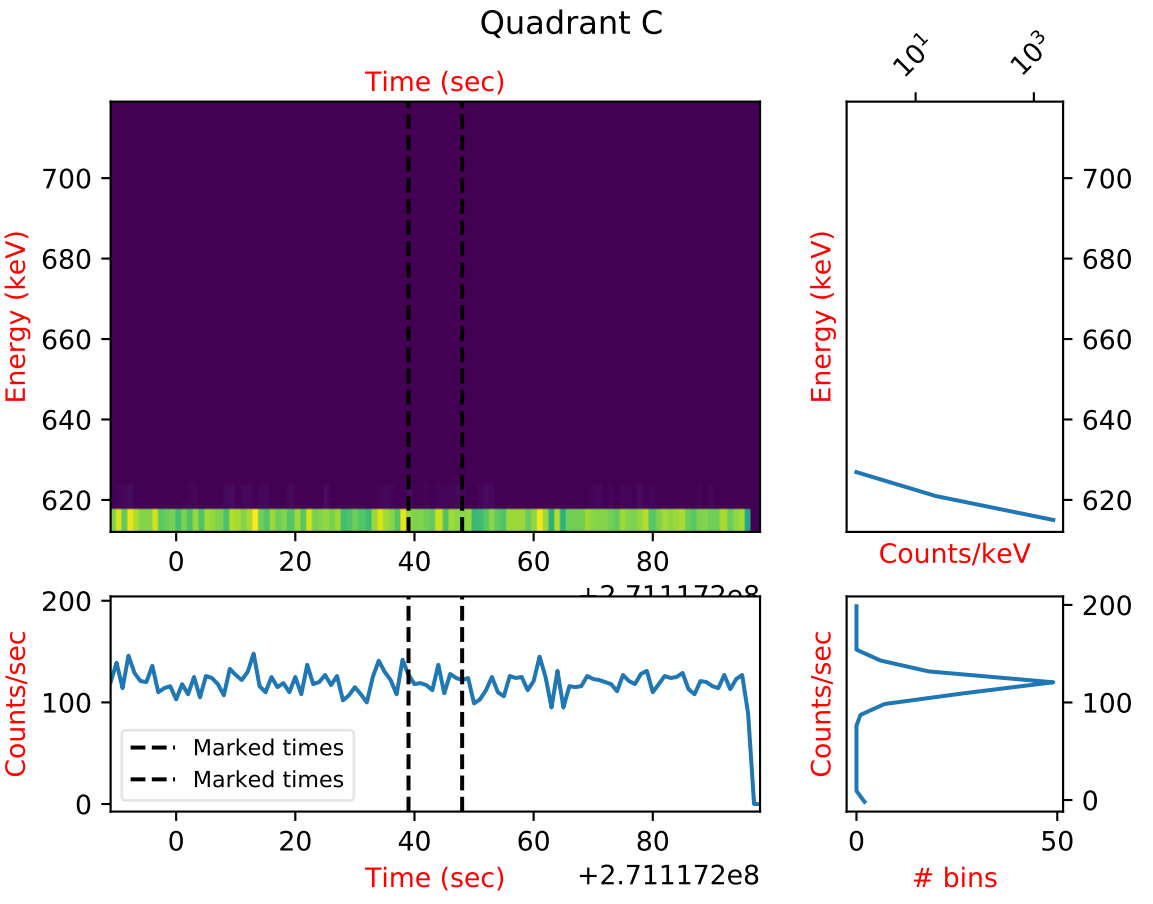

Quadrant B
Time (sec)
Energy (keV)
660
640
620
600
580
0
20
40
60
80
0
2
Strength/keV
Strength/sec
Marked times
Marked times
6
4
2
0
+2.711172e8
bins
25

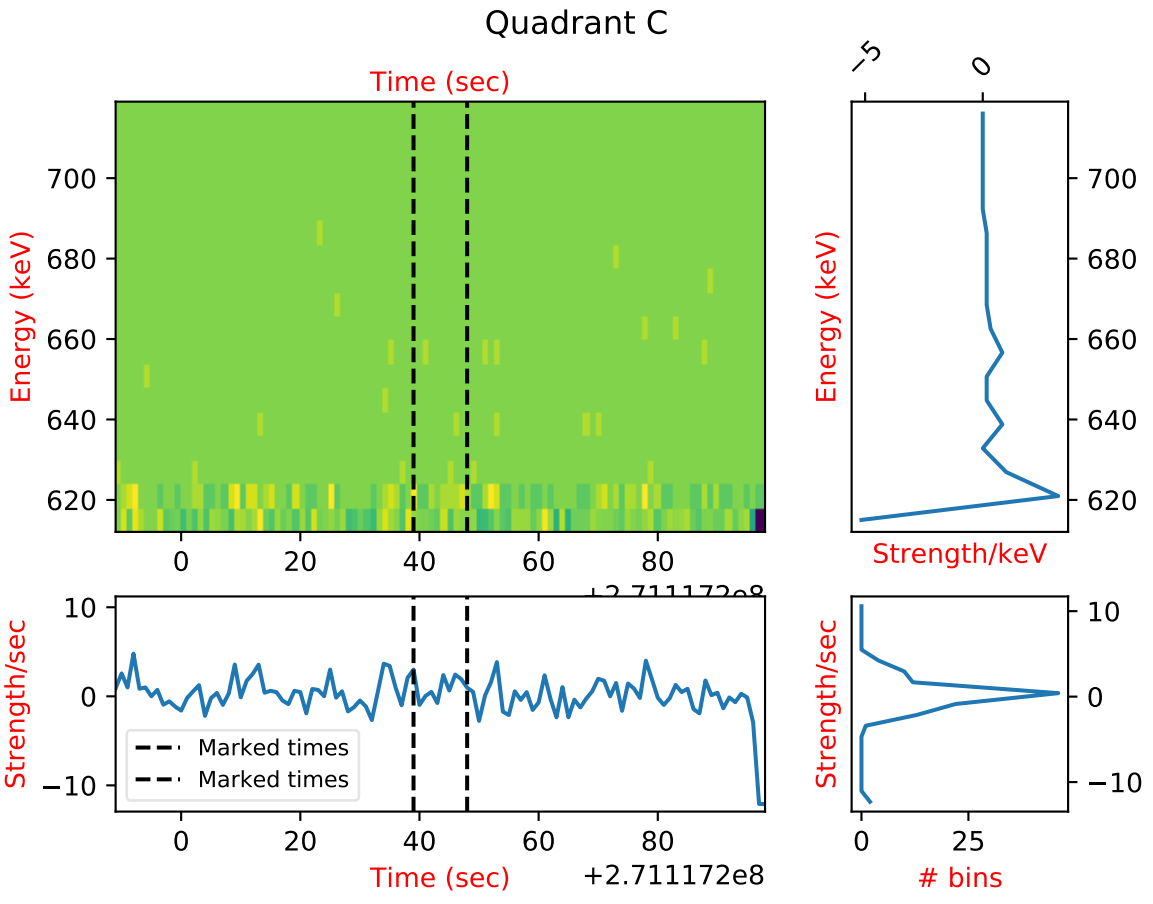

LC: Quad B
Counts/sec
600
400
200
0
−200
-41.2-674.8 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
0
20
40
60
80
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Significance
6
4
2
0
Time (sec)
+2.711172e8

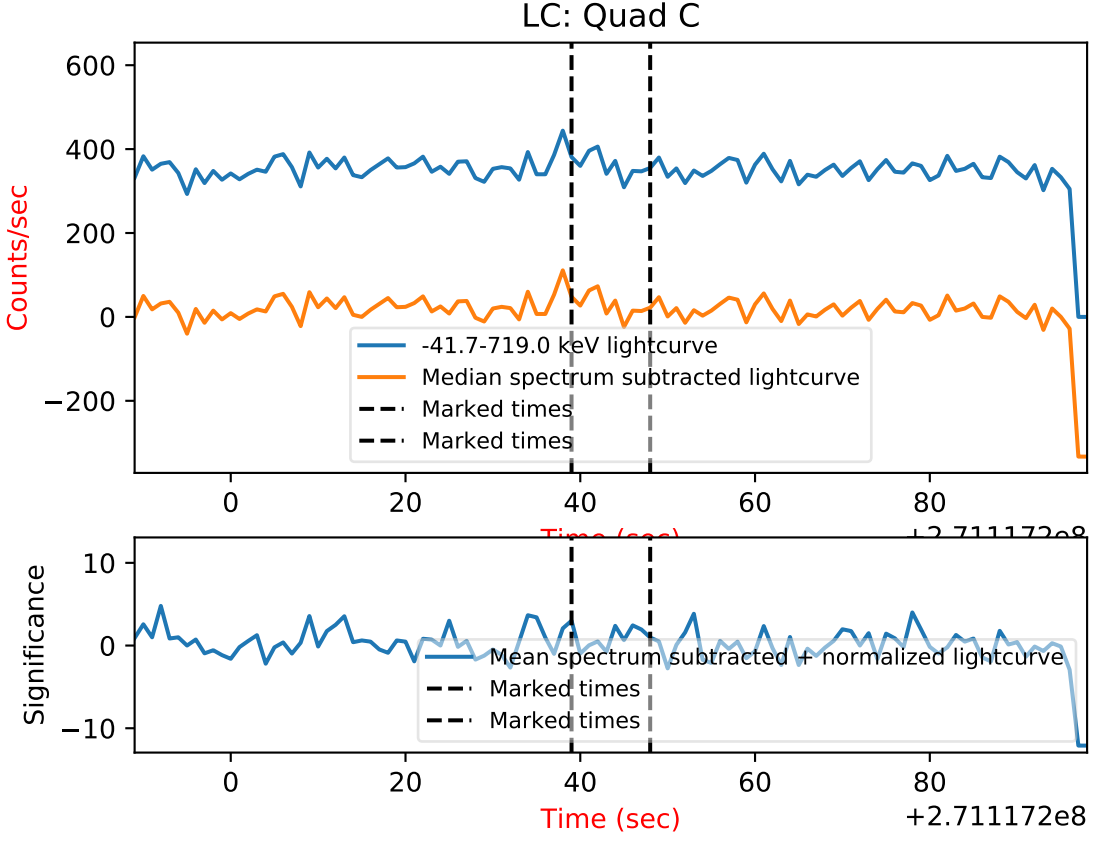

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
0
20
40
60
80
10^1
10^3
Counts/keV
Counts/sec
Marked times
Marked times
+2.711172e8
bins
50

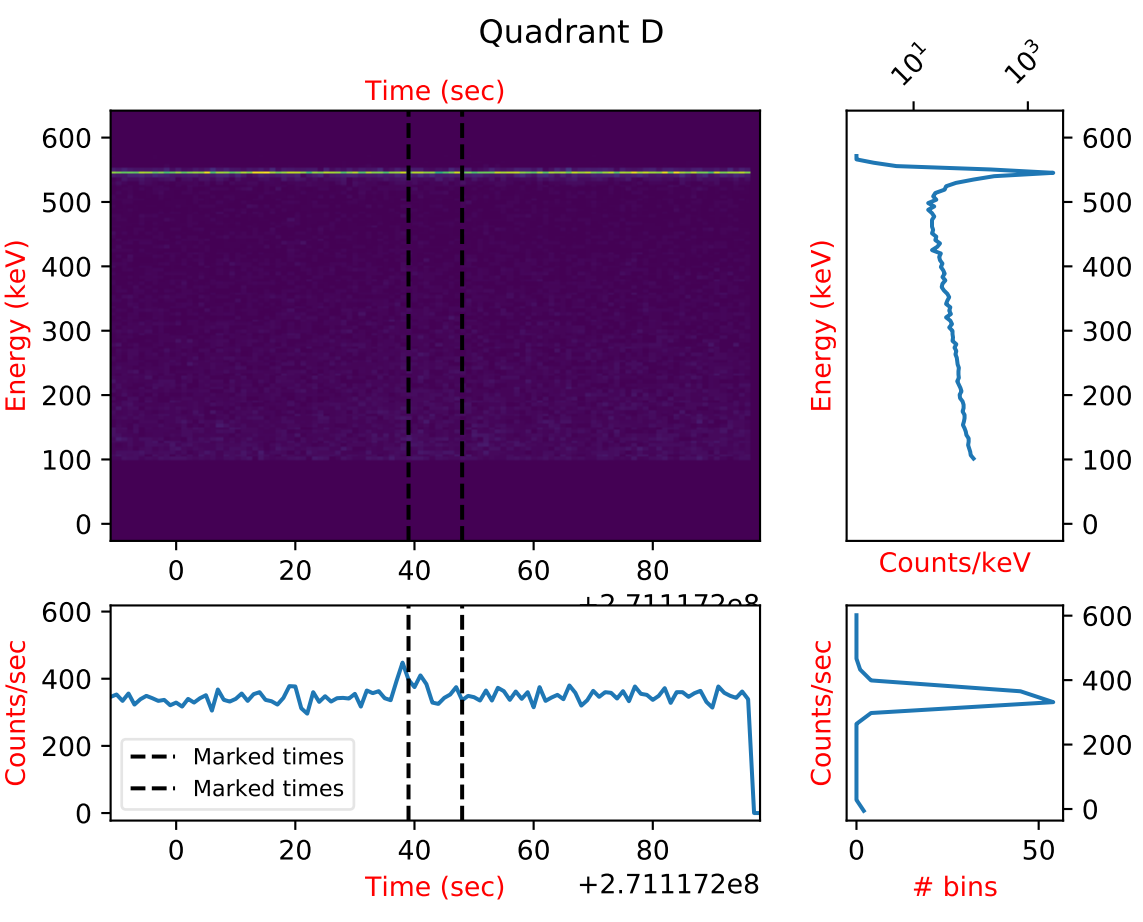

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
0
20
40
60
80
−50
0
Excess counts/keV
Excess counts/sec
200
0
−200
Marked times
Marked times
+2.711172e8
bins
50

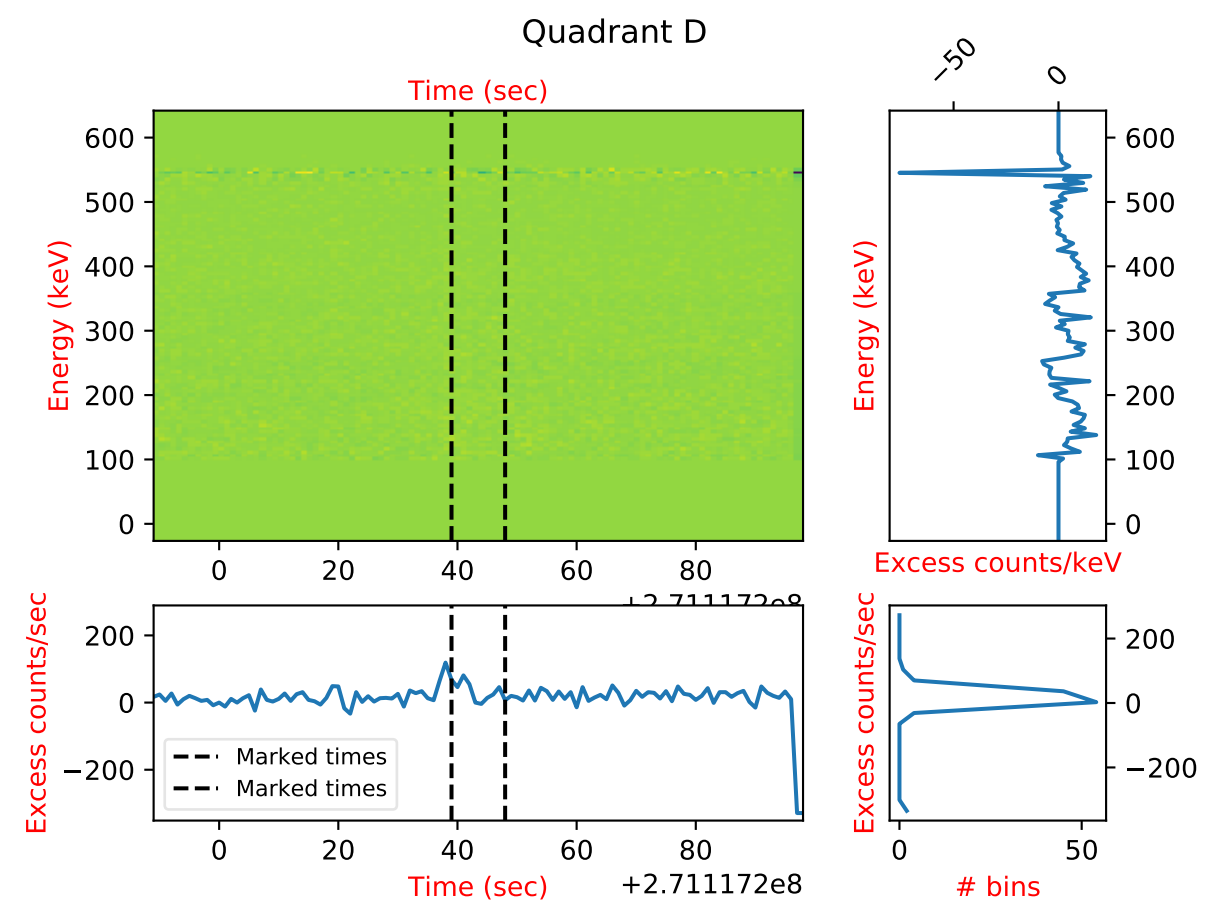

Quadrant C
Time (sec)
Energy (keV)
0
20
40
60
80
100
200
300
400
500
600
700
0
10
Strength/keV
Strength/sec
Marked times
Marked times
−100
+2.711172e8
bins
50

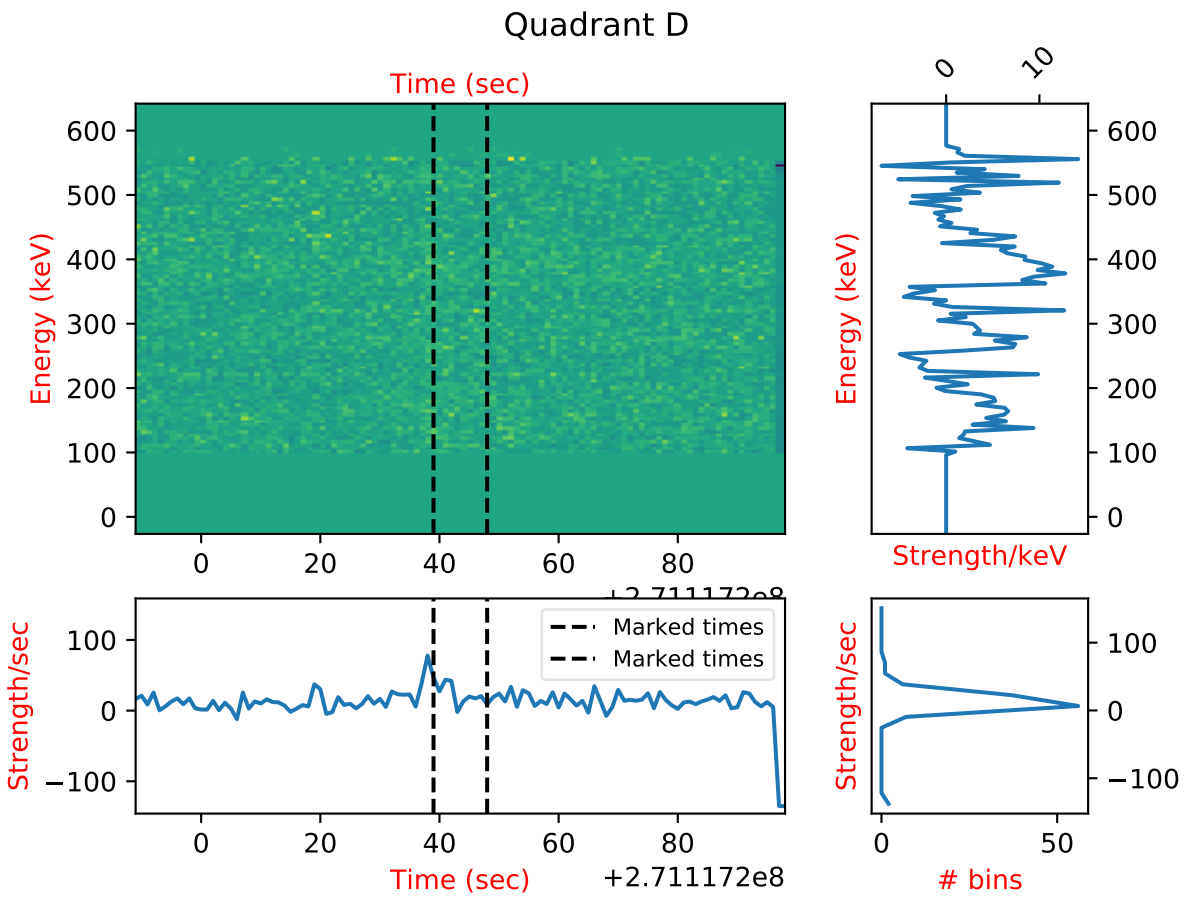

Quadrant C
Time (sec)
Energy (keV)
700
680
660
640
620
0
20
40
60
80
10^1
10^3
Counts/keV
Counts/sec
200
100
0
Marked times
Marked times
+2.711172e8
bins
50

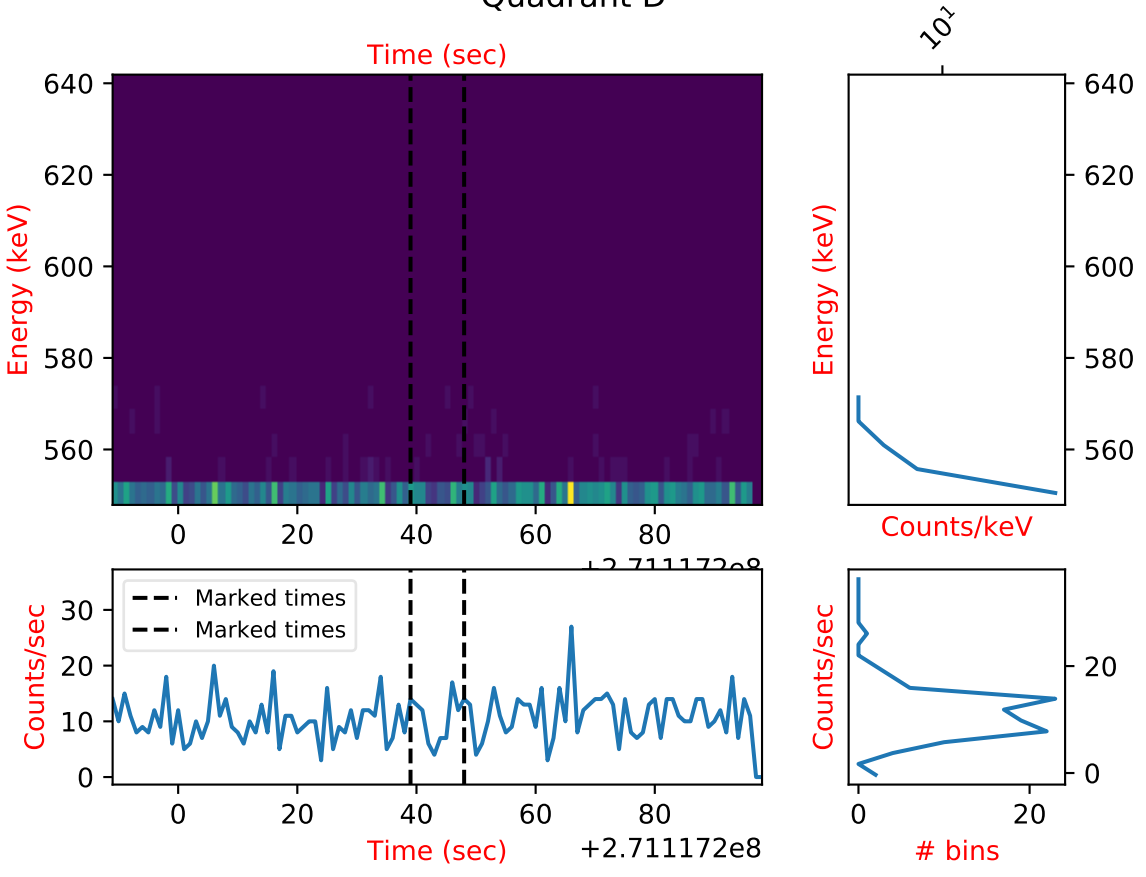

Quadrant C
Time (sec)
Energy (keV)
700
680
660
640
620
0
20
40
60
80
−5
0
Strength/keV
Strength/sec
10
0
−10
Marked times
Marked times
Time (sec)
+2.711172e8
25
bins

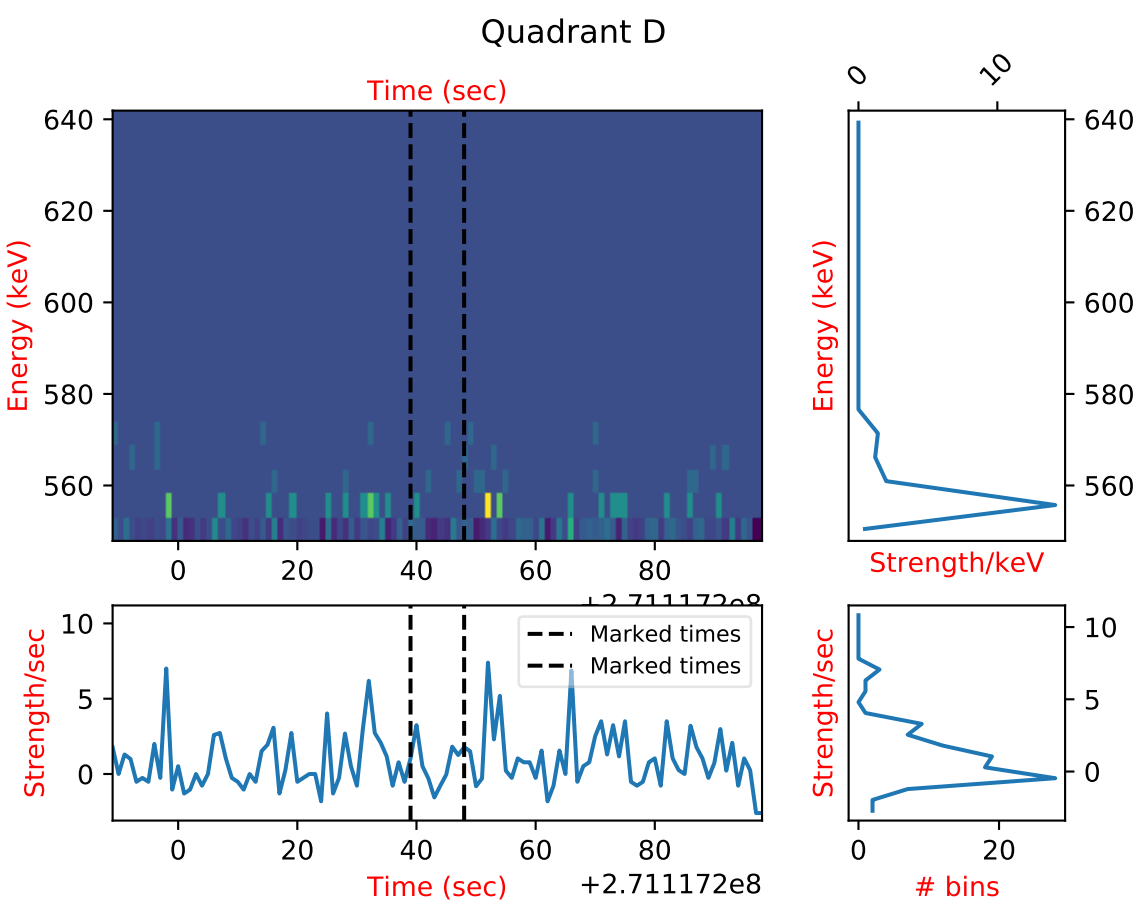

LC: Quad C
Counts/sec
600
400
200
0
−200
-41.7-719.0 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
0
20
40
60
80
Significance
10
0
−10
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
0
20
40
60
80
Time (sec)
+2.711172e8

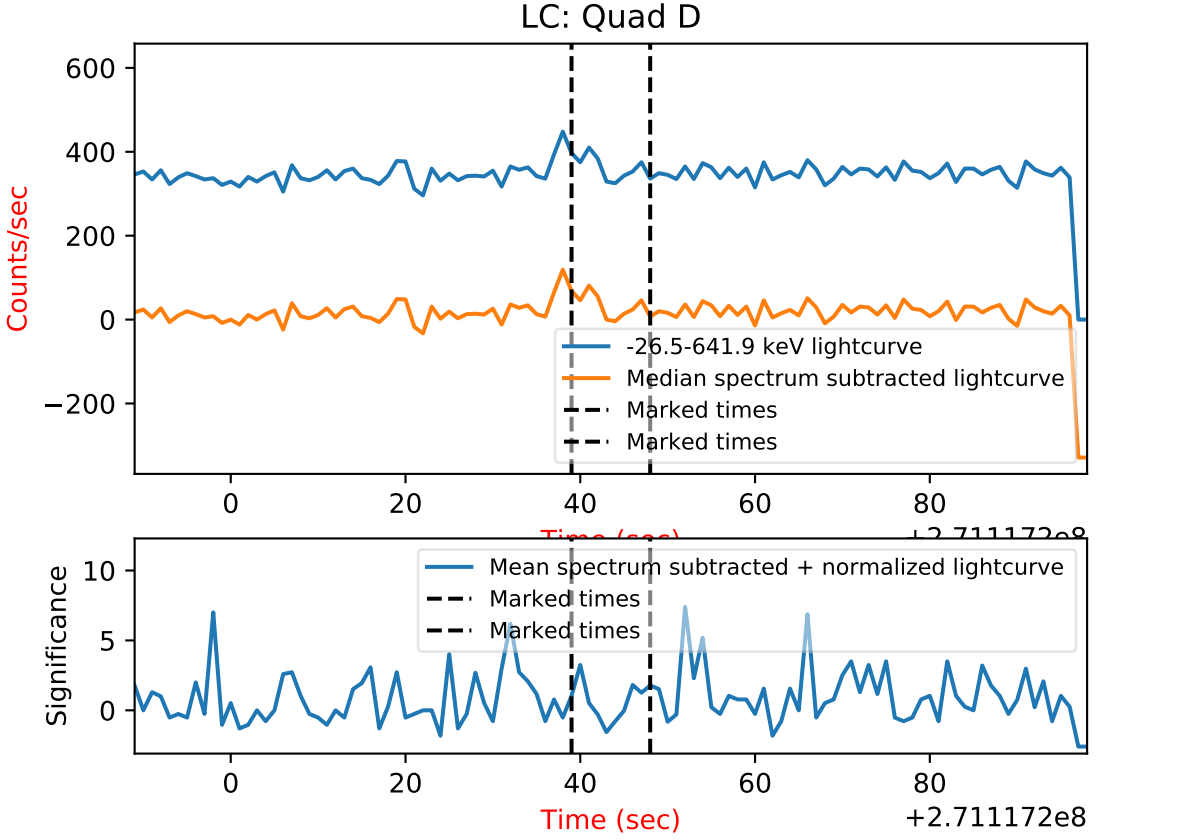

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
0
20
40
60
80
10^1
10^3
Counts/keV
Counts/sec
Marked times
Marked times
+2.711172e8
bins
50

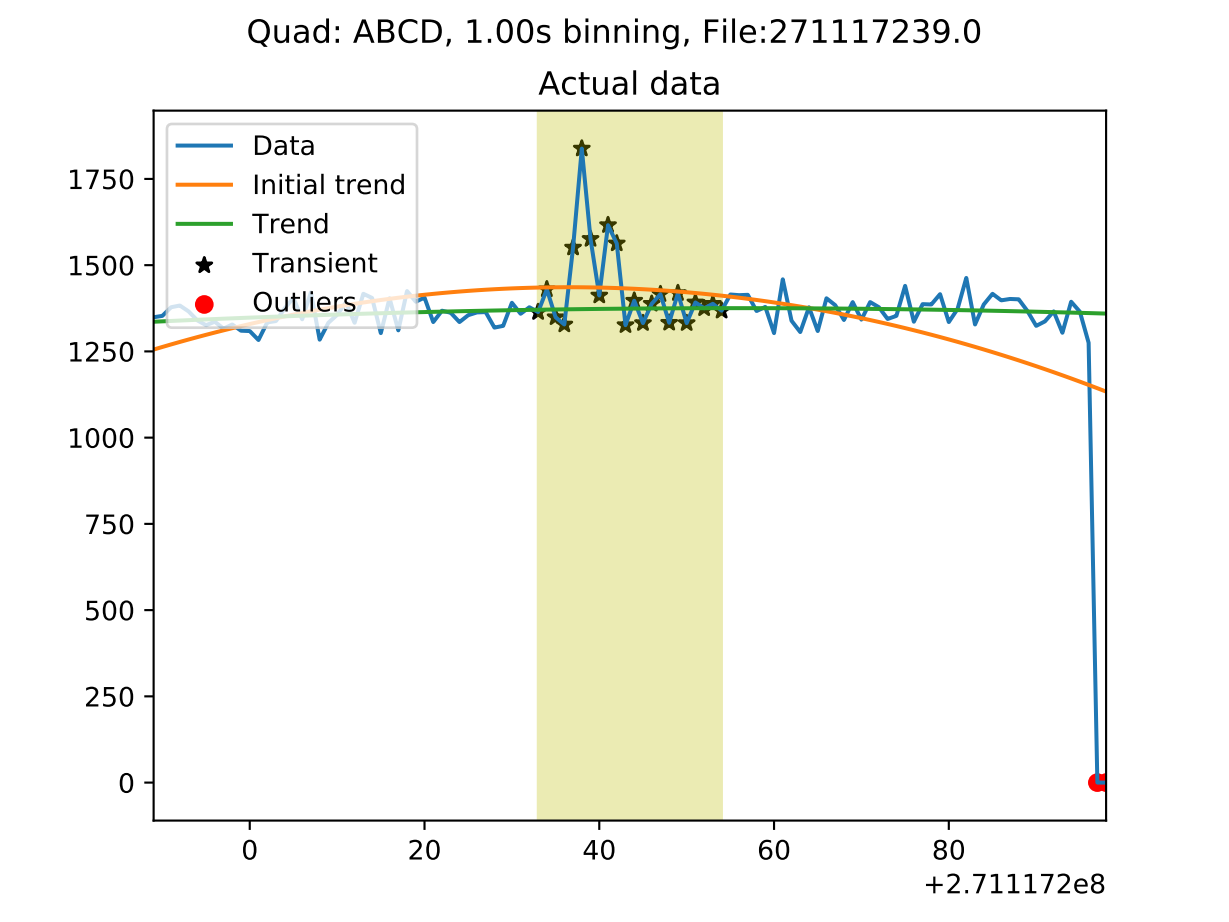

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
0
20
40
60
80
−50
0
Excess counts/keV
+2.711172e8
Excess counts/sec
200
0
−200
Marked times
Marked times
Time (sec)
+2.711172e8
bins
50

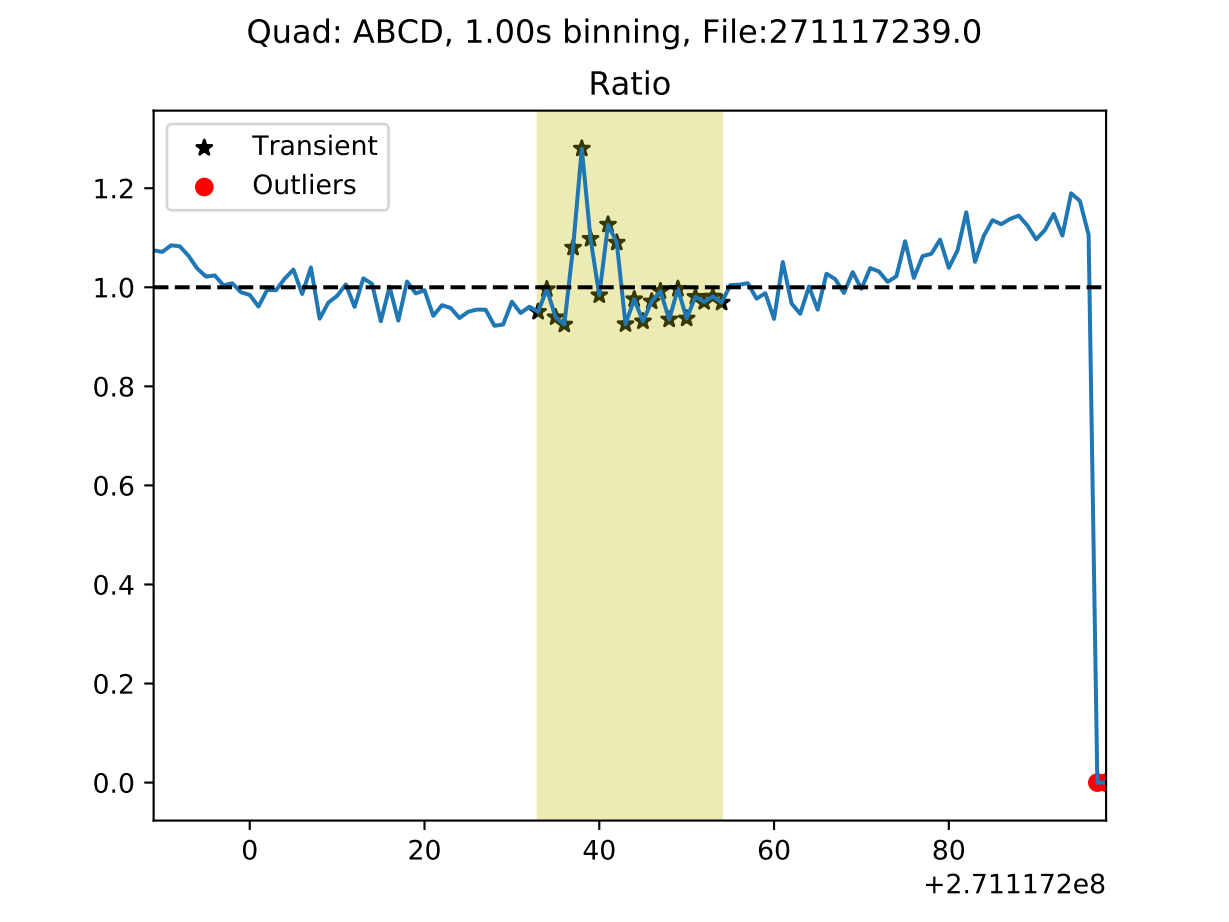

Quadrant D
Time (sec)
Energy (keV)
0
20
40
60
80
100
200
300
400
500
600
+2.711172e8
Strength/keV
Strength/sec
Marked times
Marked times
−100
bins
50

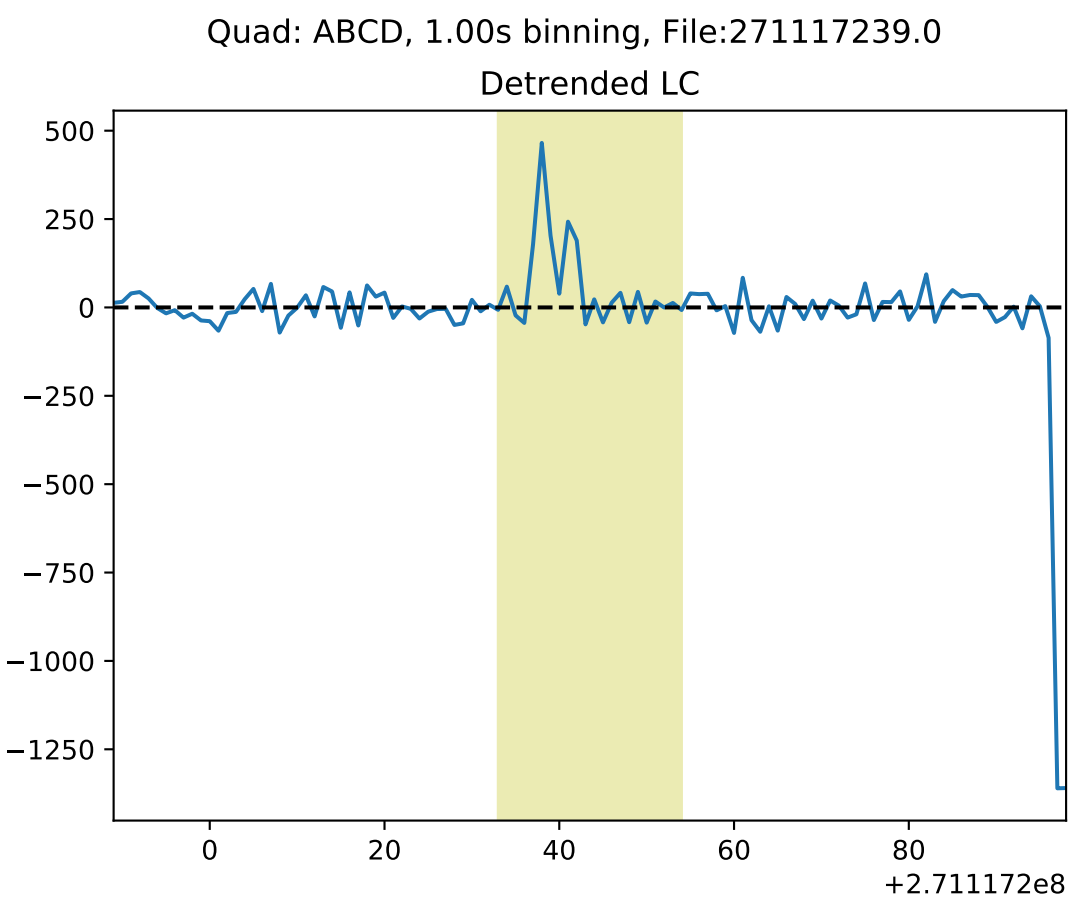

Quadrant D
Time (sec)
Energy (keV)
640
620
600
580
560
0
20
40
60
80
10^1
Counts/keV
Marked times
Marked times
Counts/sec
30
20
10
0
+2.711172e8
bins

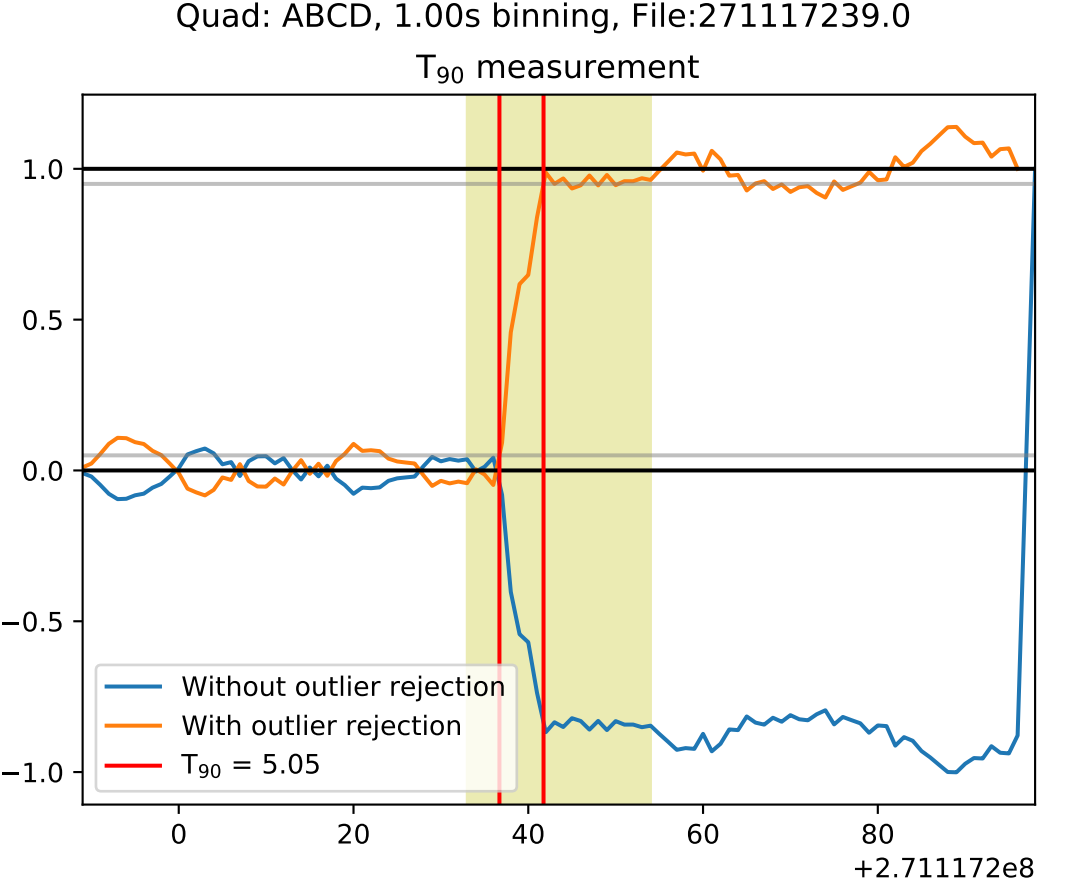

Quadrant D
Time (sec)
Energy (keV)
640
620
600
580
560
0
20
40
60
80
0
10
Strength/keV
Strength/sec
10
5
0
Marked times
Marked times
+2.711172e8
bins

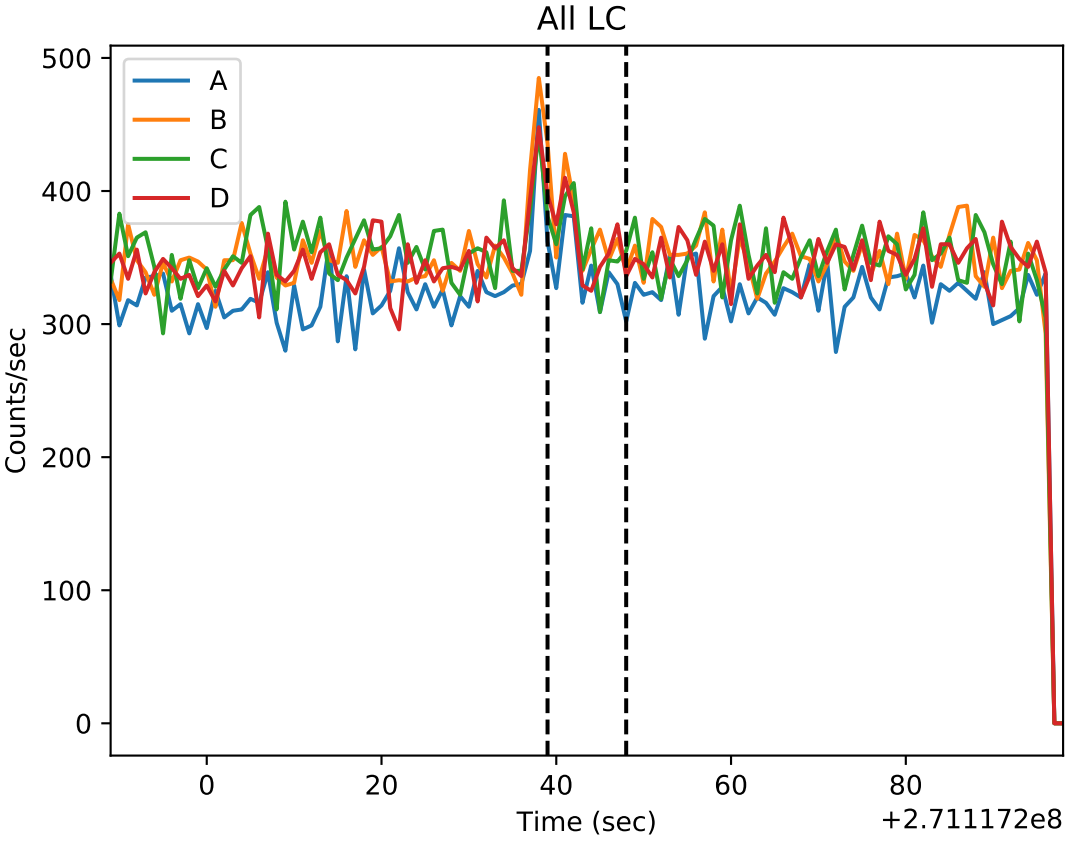

LC: Quad D
Counts/sec
600
400
200
0
−200
-26.5-641.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
0
20
40
60
80
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Significance
10
5
0
Time (sec)
+2.711172e8


Quad: ABCD, 1.00s binning, File:271117239.0
Actual data
Data
Initial trend
Trend
Transient
Outliers
1750
1500
1250
1000
750
500
250
0
0
20
40
60
80
+2.711172e8


Quad: ABCD, 1.00s binning, File:271117239.0
Ratio
Transient
Outliers
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
+2.711172e8


Quad: ABCD, 1.00s binning, File:271117239.0
Detrended LC
500
250
0
−250
−500
−750
−1000
−1250
0
20
40
60
80
+2.711172e8


Quad: ABCD, 1.00s binning, File:271117239.0
T90 measurement
1.0
0.5
0.0
−0.5
−1.0
0
20
40
60
80
+2.711172e8
Without outlier rejection
With outlier rejection
T90 = 5.05


All LC
A
B
C
D
500
400
300
200
100
0
Counts/sec
0
20
40
60
80
Time (sec)
+2.711172e8