

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6907 - L2 Version 2
Chandra X-Ray Center

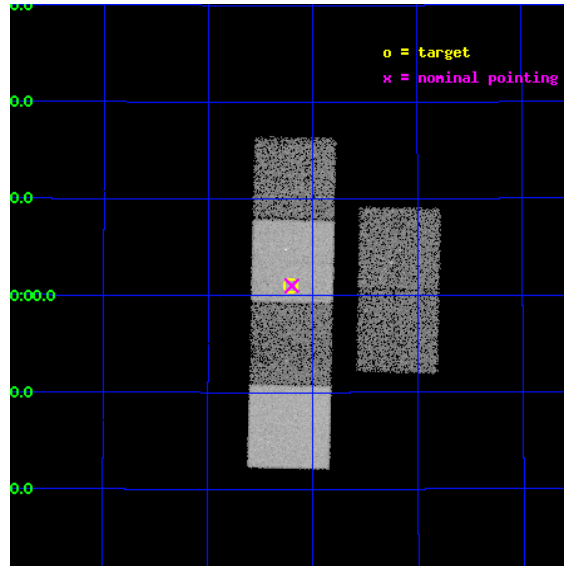
L2 Processing Date : Apr 7 2012

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1 Front

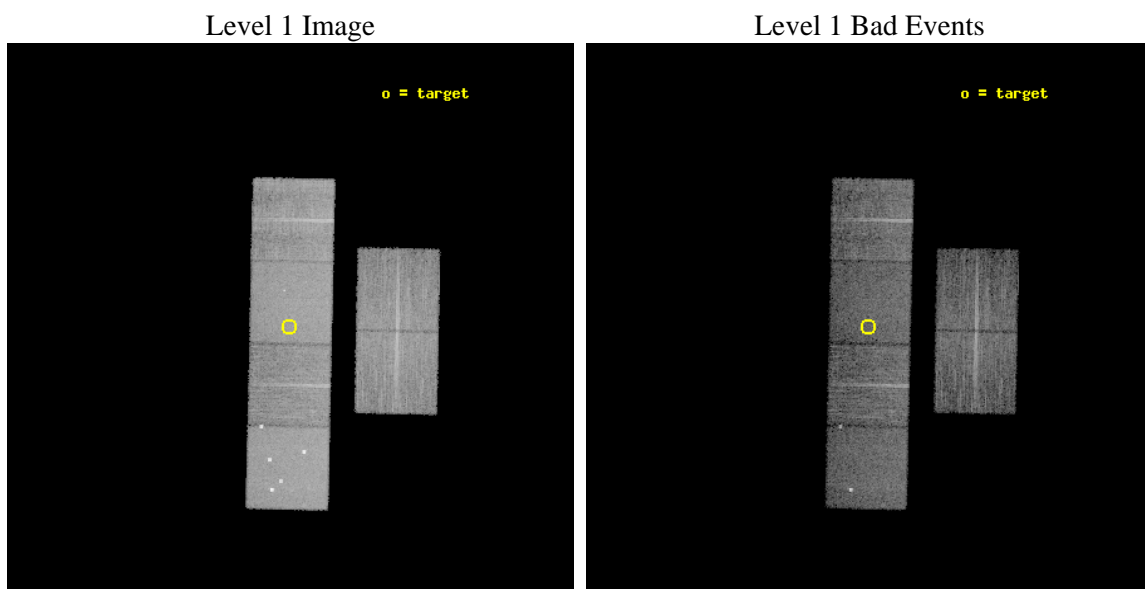
| | | |
|-----------|--|---|
| seq_num | 701323 | Sequence number |
| obs_id | 6907 | Observation id |
| title | Are Submm-Bright GRB Hosts Powered by AGN? | Proposal title |
| observer | Dr. Andrew Fruchter | Principal investigator |
| object | GRB 010222 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 223.0525 | Observer's specified target RA [deg] |
| dec_targ | 43.018333 | Observer's specified target Dec [deg] |
| ra_nom | 223.05031770338 | Nominal RA [deg] |
| dec_nom | 43.01706378675 | Nominal Dec [deg] |
| roll_nom | 271.21739327278 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8153.5999696851 | Sum of GTIs [s] |
| liveltime | 8050.3541773604 | Livetime [s] |
| ontime2 | 8147.1179991961 | Sum of GTIs [s] |
| ontime3 | 8153.5999696851 | Sum of GTIs [s] |
| ontime5 | 8153.5999696851 | Sum of GTIs [s] |
| ontime6 | 8150.3589994311 | Sum of GTIs [s] |
| ontime7 | 8153.5999696851 | Sum of GTIs [s] |
| ontime8 | 8153.5999696851 | Sum of GTIs [s] |
| l2events | 119769 | Number of level 2 events |



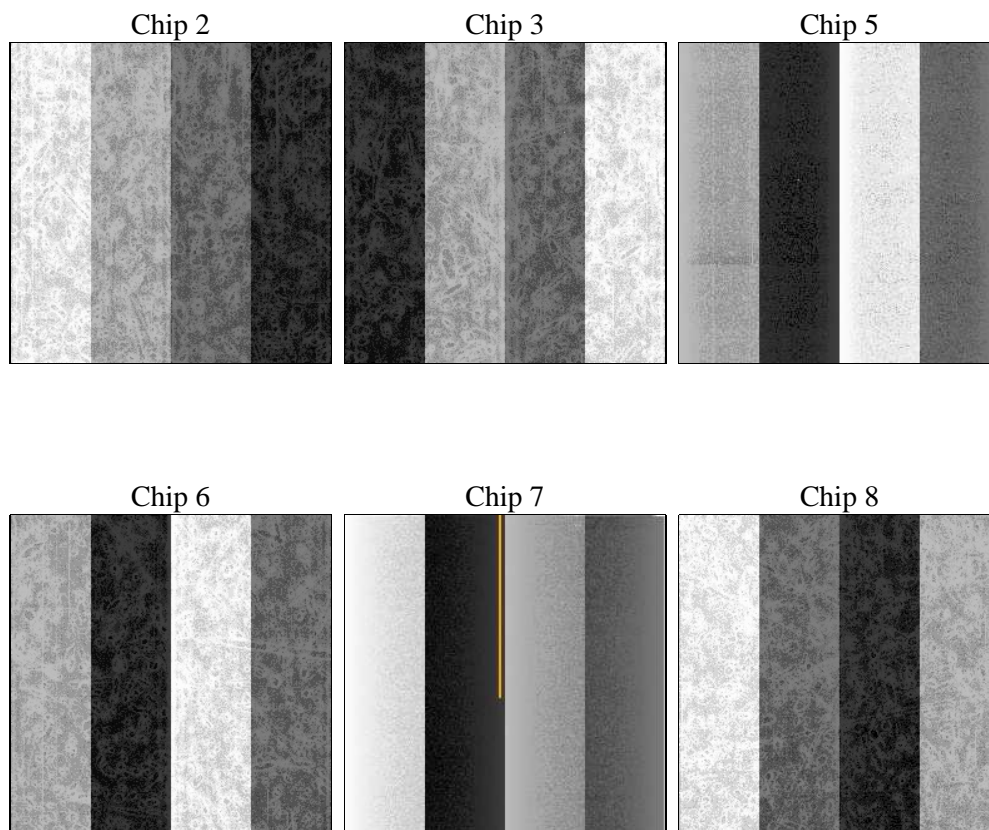
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 8000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3.1 | Processing system revision | ontime | 8153.5999696851 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 8147.1179991961 | Sum of GTIs [s] |
| date | 2012-04-07T12:43:25 | Date and time of file creation | ontime3 | 8153.5999696851 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 8153.5999696851 | Sum of GTIs [s] |
| | | | ontime6 | 8150.3589994311 | Sum of GTIs [s] |
| | | | ontime7 | 8153.5999696851 | Sum of GTIs [s] |
| | | | ontime8 | 8153.5999696851 | Sum of GTIs [s] |
| | | | l1events | 538880 | Number of level 1 events |

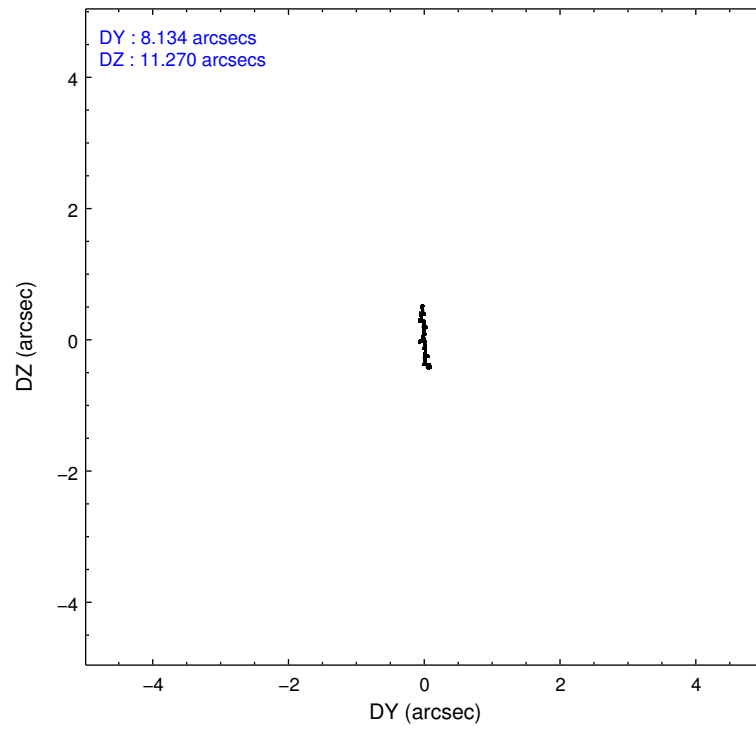
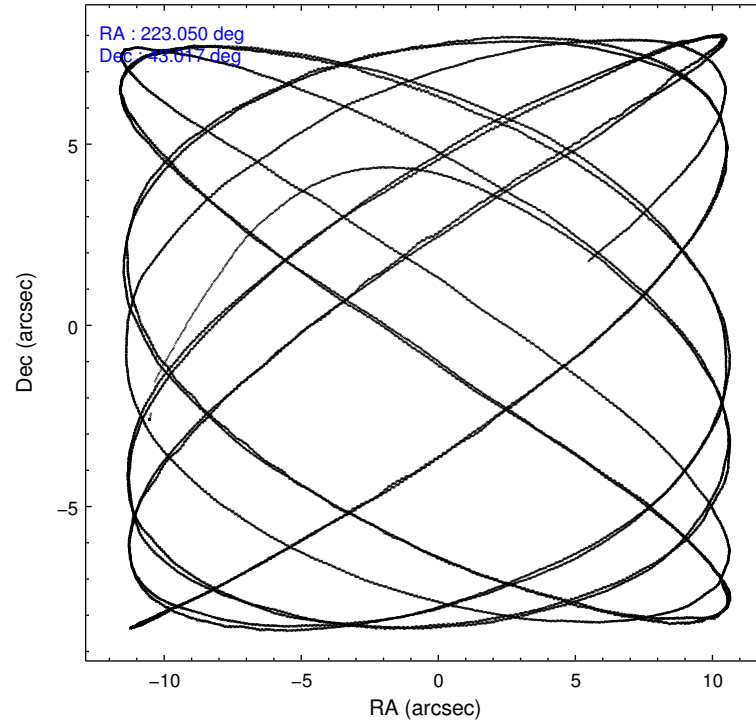
2.1.4 Events

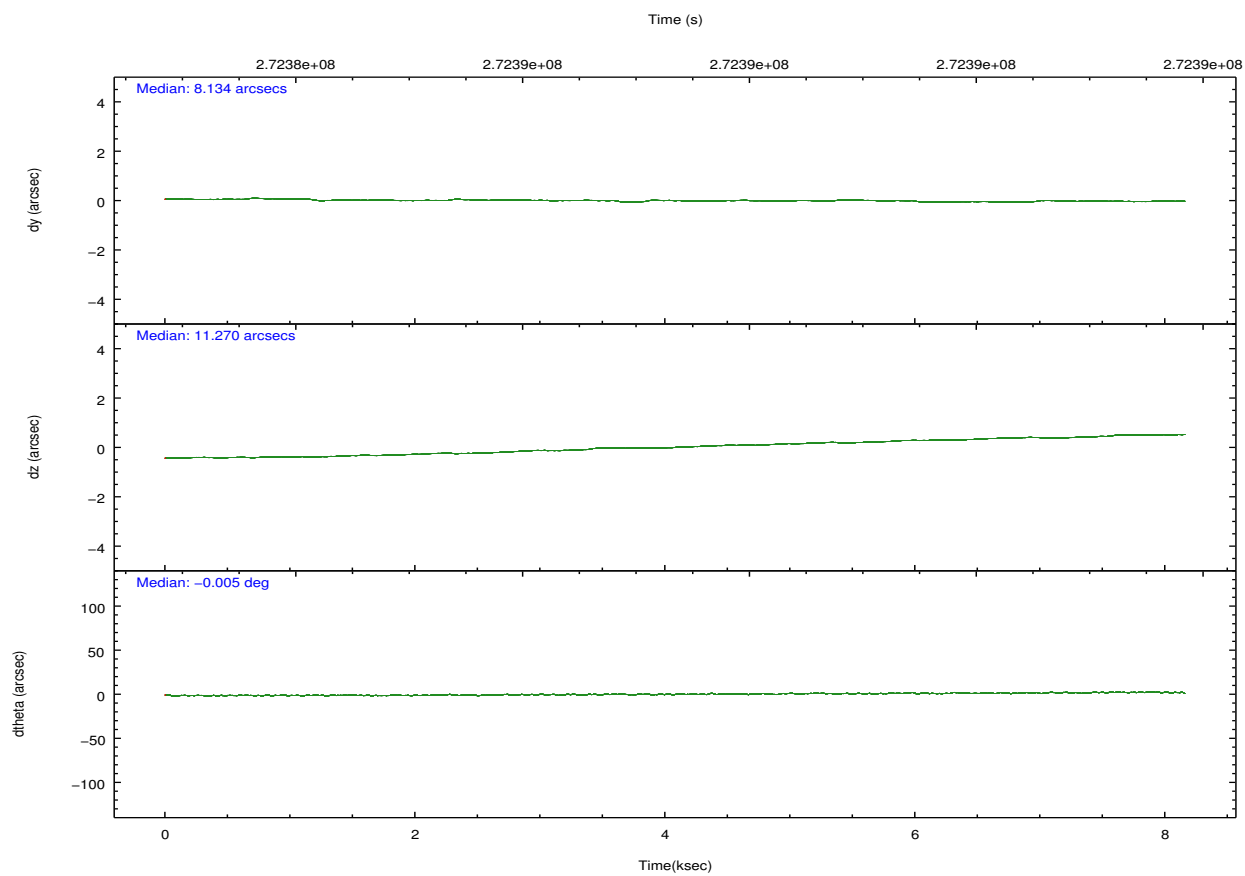
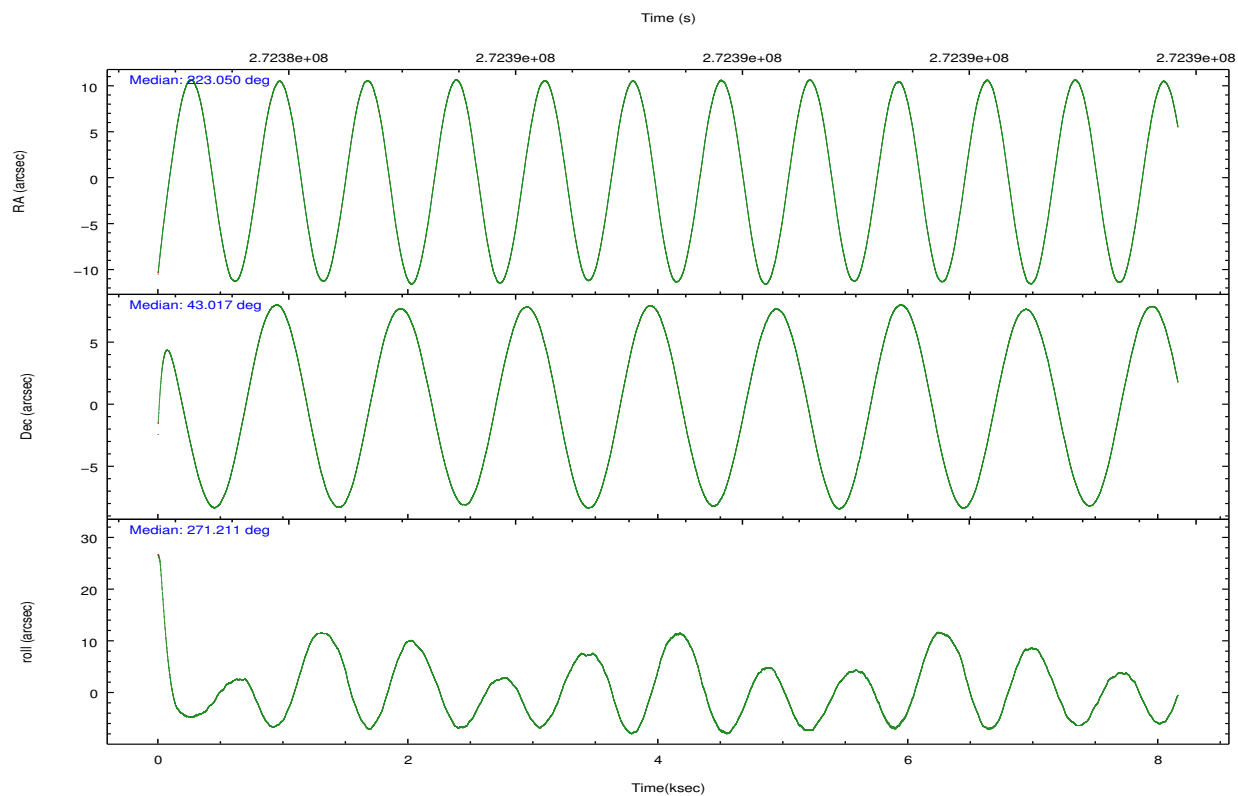
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|--------|-------|--------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 76476 | 70558 | 120972 | 74628 | 101829 | 94417 | grade 0 events | 3940 | 3787 | 9880 | 3470 | 3785 | 6549 |
| rejected events | 67776 | 62047 | 63154 | 65882 | 60070 | 74287 | | 5% | 5% | 8% | 4% | 3% | 6% |
| rejected % | 88% | 87% | 52% | 88% | 58% | 78% | grade 1 events | 44 | 40 | 1686 | 40 | 107 | 84 |
| | | | | | | | | 0% | 0% | 1% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 1821 | 1728 | 16807 | 1942 | 8776 | 4535 |
| | | | | | | | | 2% | 2% | 13% | 2% | 8% | 4% |
| | | | | | | | grade 3 events | 784 | 864 | 2209 | 853 | 3578 | 2064 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 4 events | 799 | 778 | 2050 | 838 | 3598 | 2041 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 5 events | 2912 | 3377 | 8056 | 3419 | 9491 | 4491 |
| | | | | | | | | 3% | 4% | 6% | 4% | 9% | 4% |
| | | | | | | | grade 6 events | 1514 | 1530 | 27878 | 1809 | 22771 | 5286 |
| | | | | | | | | 1% | 2% | 23% | 2% | 22% | 5% |
| | | | | | | | grade 7 events | 64662 | 58454 | 52406 | 62257 | 49723 | 69367 |
| | | | | | | | | 84% | 82% | 43% | 83% | 48% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 223.030508 | 223.0503177033763 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 43.040150 | 43.01706378674955 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 271.074268 | 271.2173932727827 | [s] Primary exposure time | 0.000000 | 3.2 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 272383426.184000 | 272382293.73231 | | | |
| Observation start date | 2006-08-19T14:02:41 | 2006-08-19T13:44:53 | | | |
| [s] Observation end time (MET) | 272391426.184000 | 272392249.04528 | | | |
| Observation end date | 2006-08-19T16:16:01 | 2006-08-19T16:30:49 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



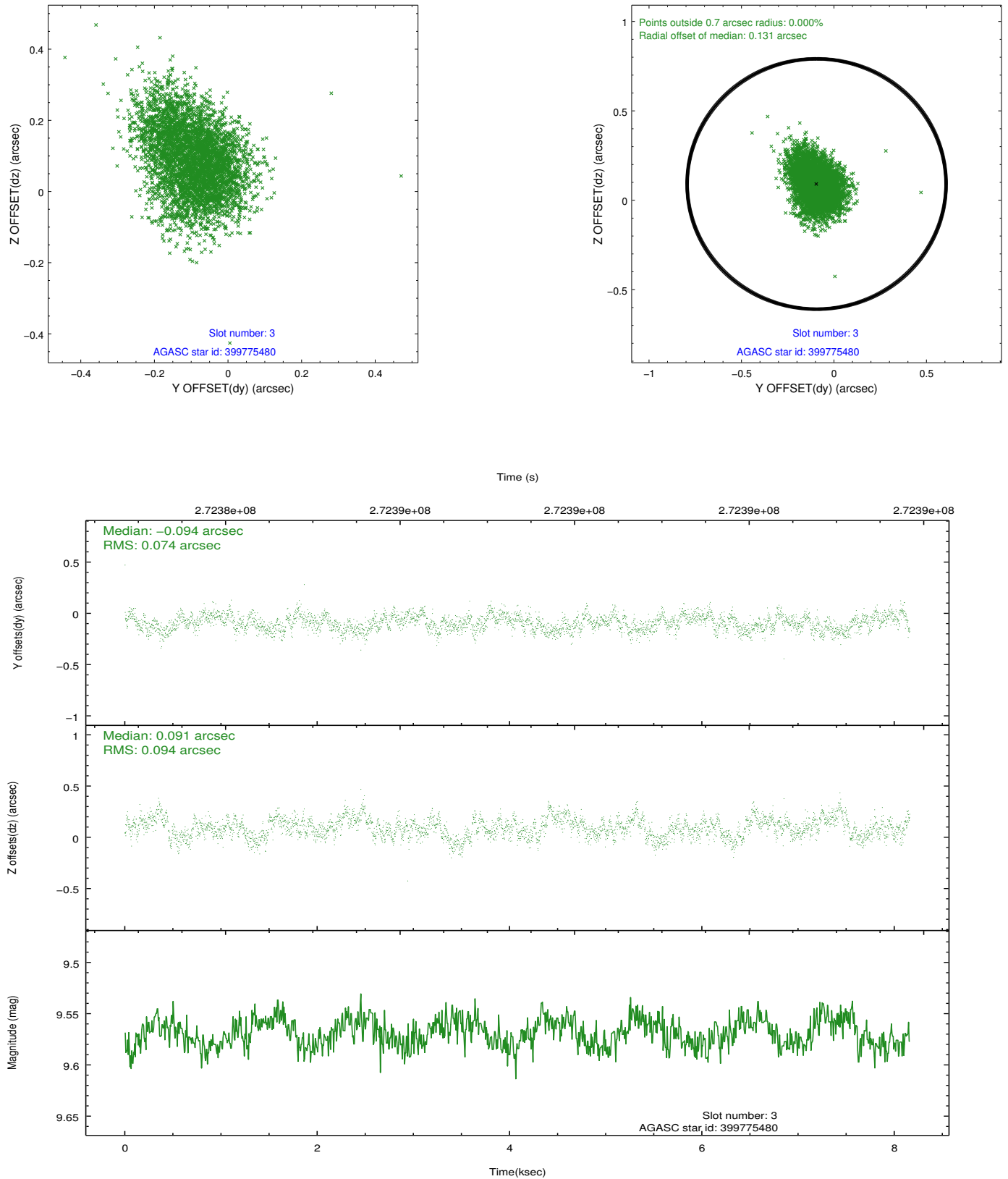


Slot Statistics

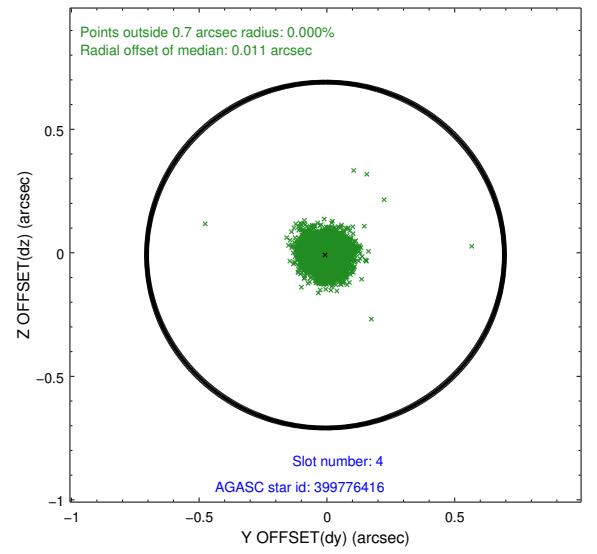
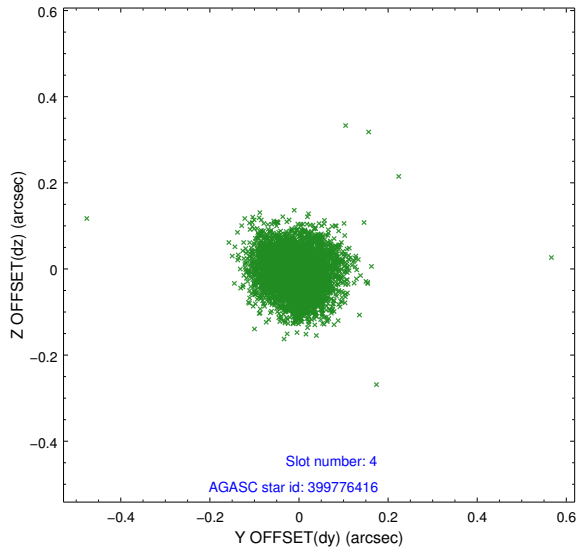
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 1990 | -0.031 | -0.014 | 0.010 | 0.016 | 0.000000 | 0.000000 | -760.92 | -1732.59 |
| 1 | FID | ACIS-S-4 | 7.21 | 1990 | 0.115 | 0.019 | 0.009 | 0.016 | 0.000000 | 0.000000 | 2152.16 | 175.26 |
| 2 | FID | ACIS-S-5 | 7.24 | 1990 | -0.116 | 0.003 | 0.009 | 0.016 | 0.000000 | 0.000000 | -1812.99 | 169.64 |
| 3 | GUIDE | 399775480 | 9.57 | 3980 | -0.094 | 0.091 | 0.126 | 0.204 | 223.770373 | 43.066595 | -67.29 | 1947.44 |
| 4 | GUIDE | 399776416 | 8.55 | 3980 | -0.005 | -0.009 | 0.073 | 0.114 | 223.438481 | 42.981948 | 227.17 | 1070.79 |
| 5 | GUIDE | 399384480 | 9.76 | 3978 | 0.049 | -0.004 | 0.134 | 0.211 | 223.599827 | 42.392736 | 2353.94 | 1470.60 |
| 6 | GUIDE | 399640208 | 9.59 | 3977 | -0.062 | -0.015 | 0.108 | 0.168 | 222.120800 | 42.799736 | 808.44 | -2418.00 |
| 7 | GUIDE | 399647344 | 9.51 | 3976 | 0.109 | -0.064 | 0.126 | 0.199 | 223.296429 | 43.683105 | -2301.50 | 734.99 |

2.4 Star Slots

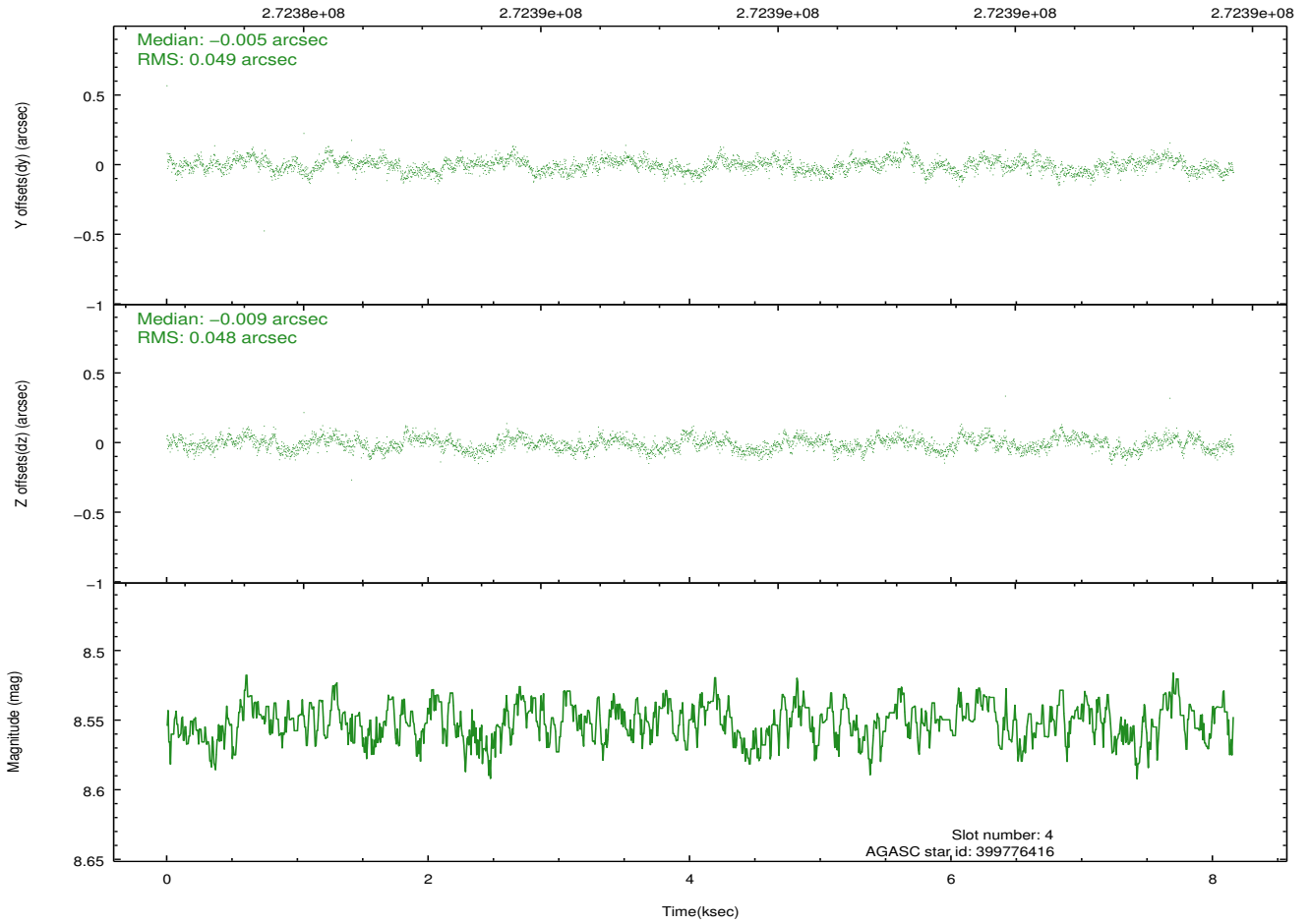
2.4.1 Slot 3



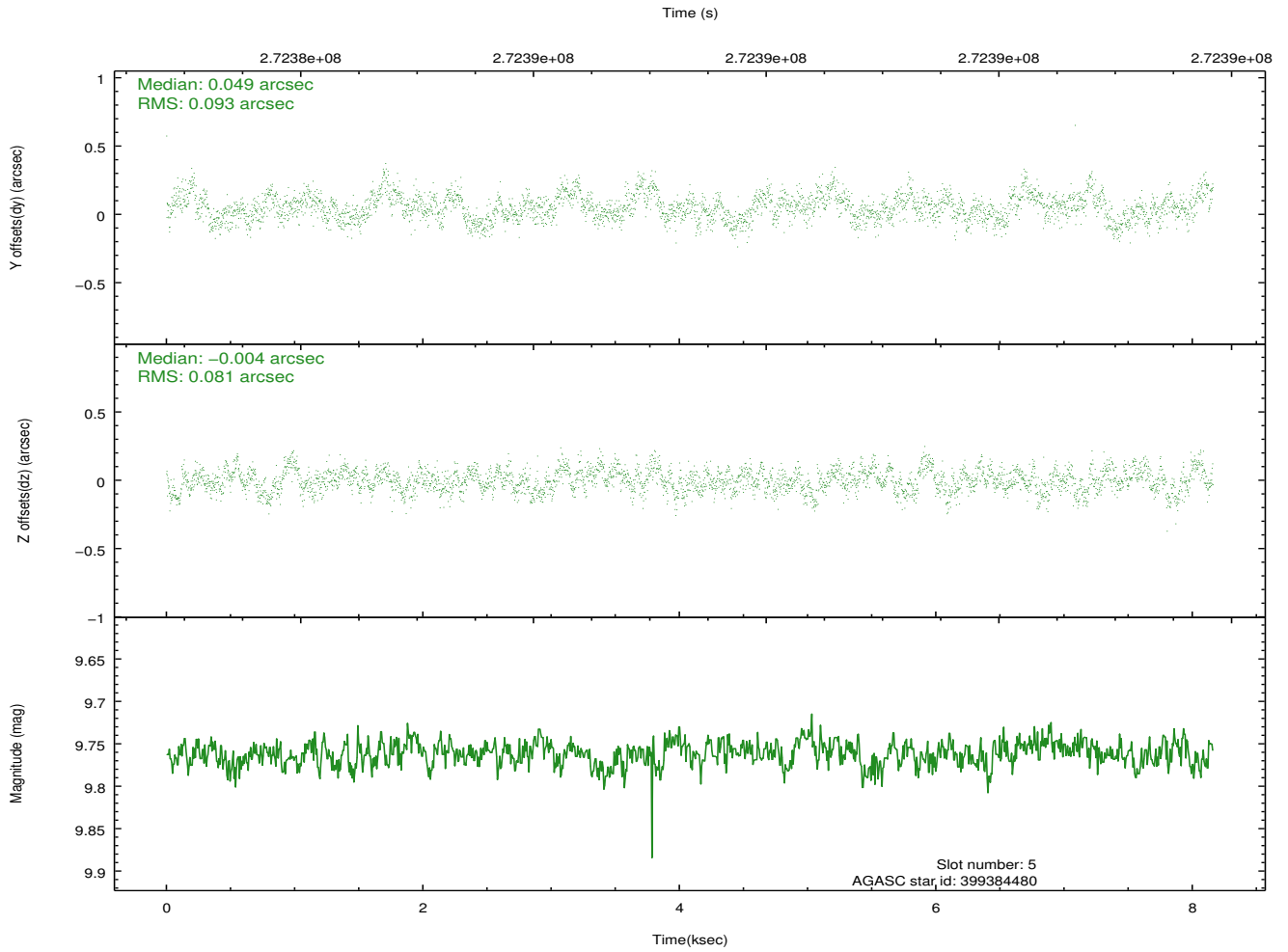
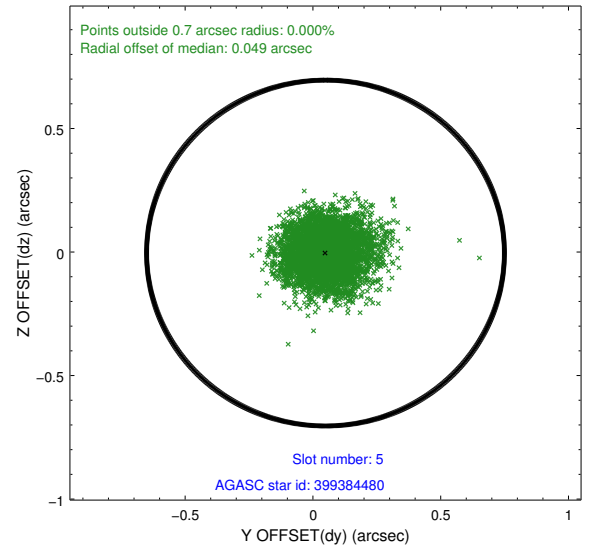
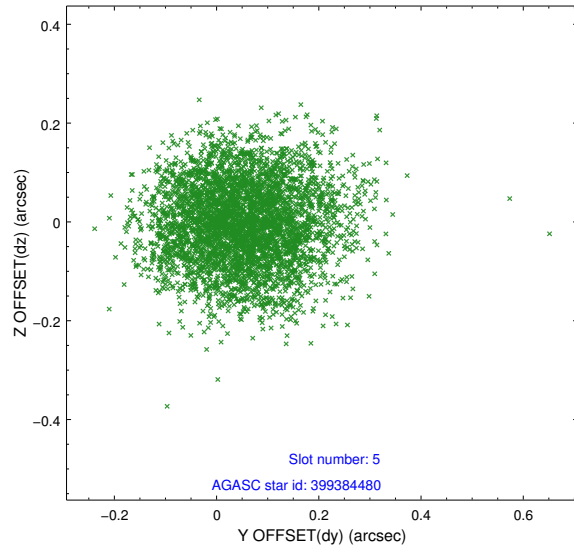
2.4.2 Slot 4



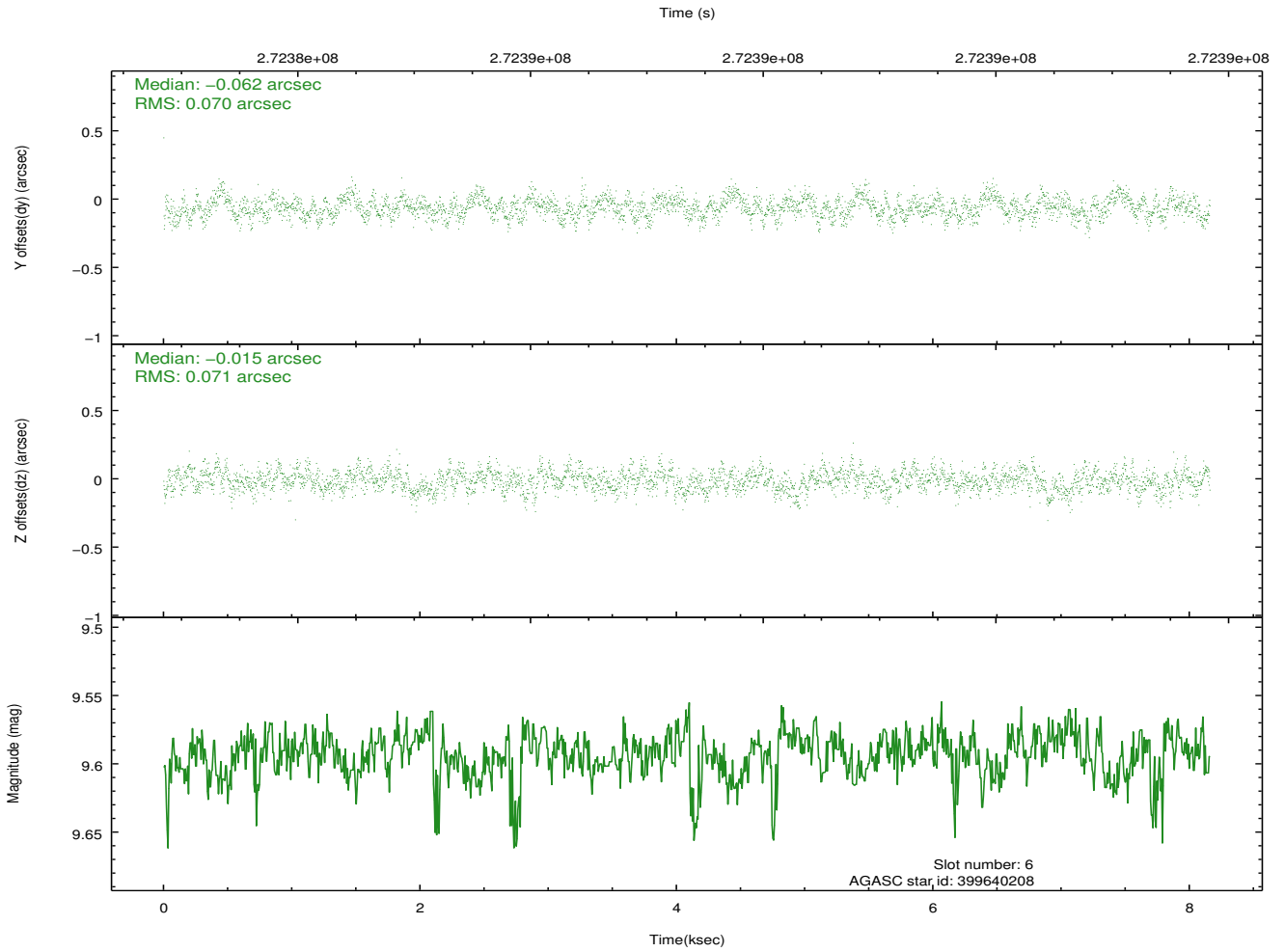
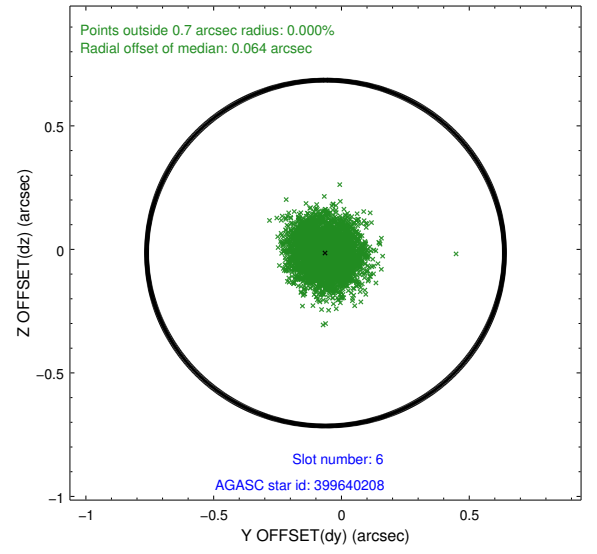
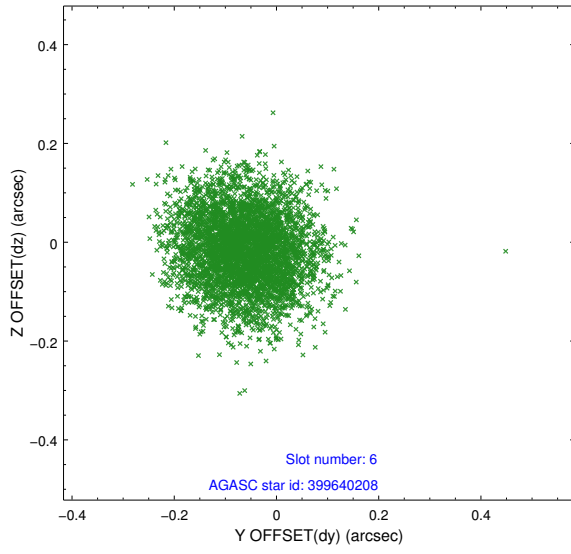
Time (s)



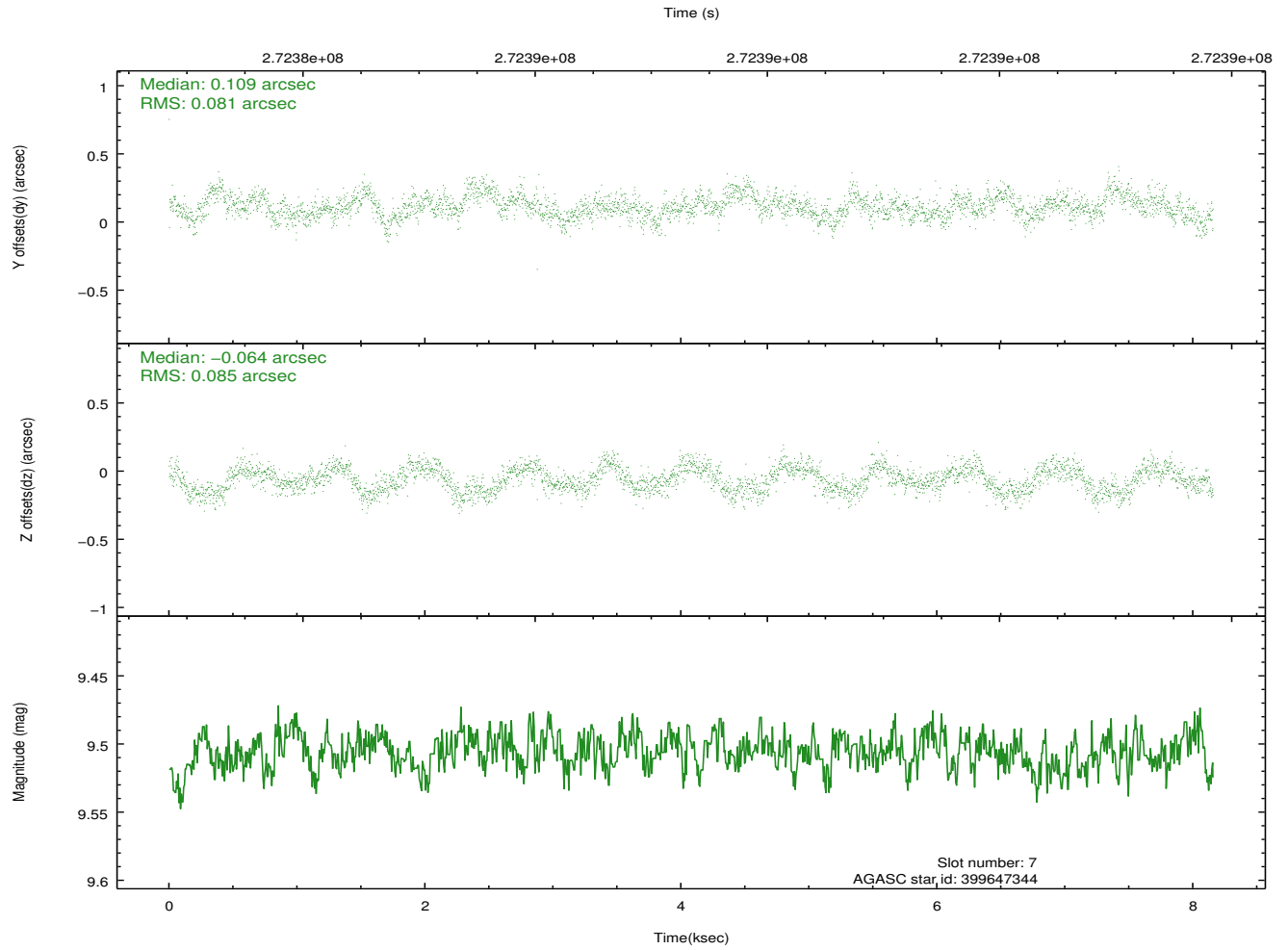
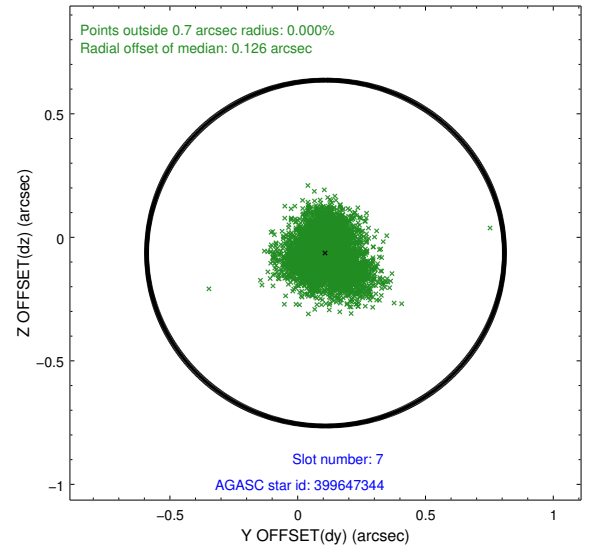
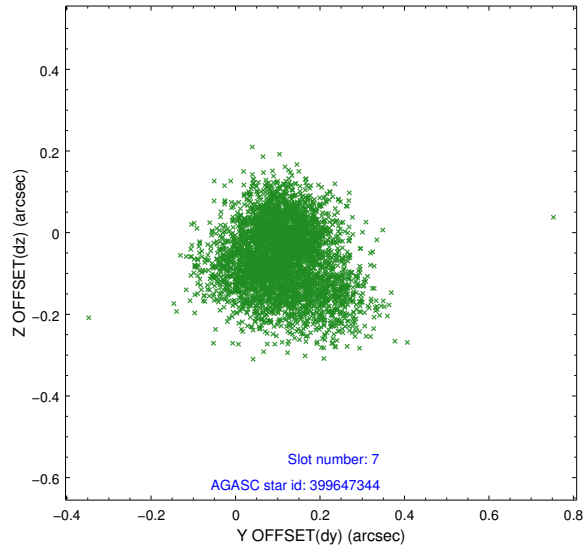
2.4.3 Slot 5



2.4.4 Slot 6

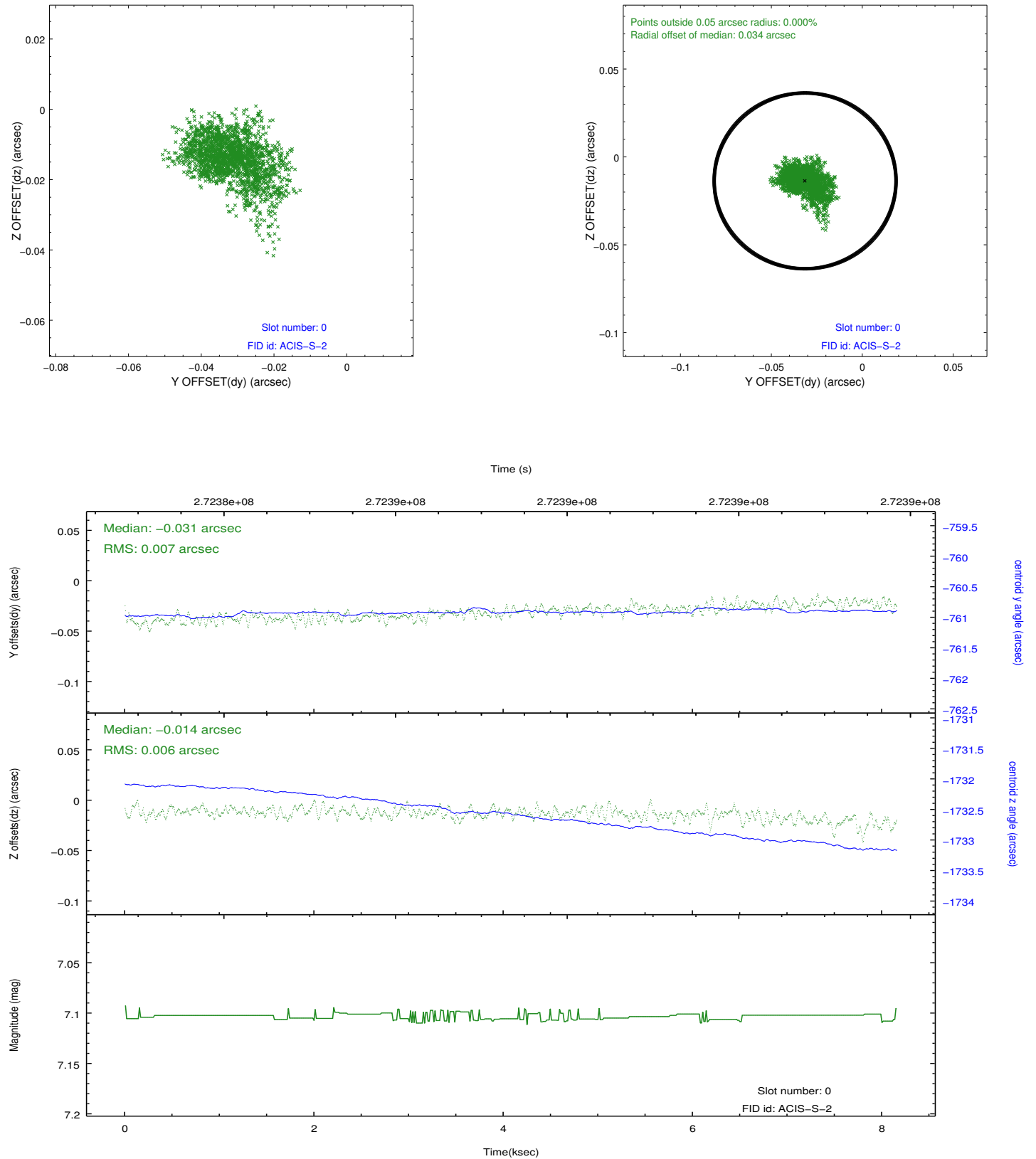


2.4.5 Slot 7

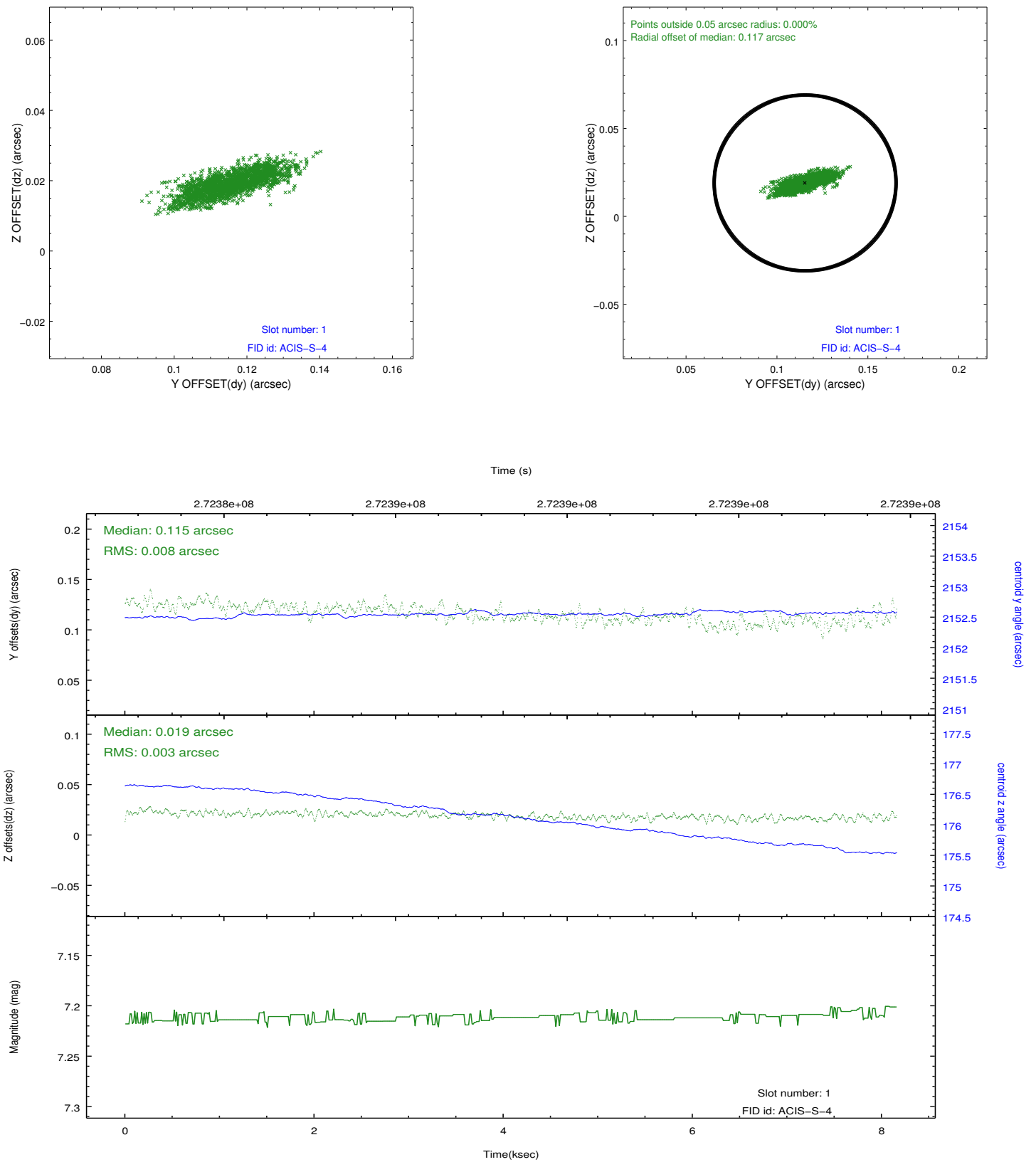


2.5 FID Slots

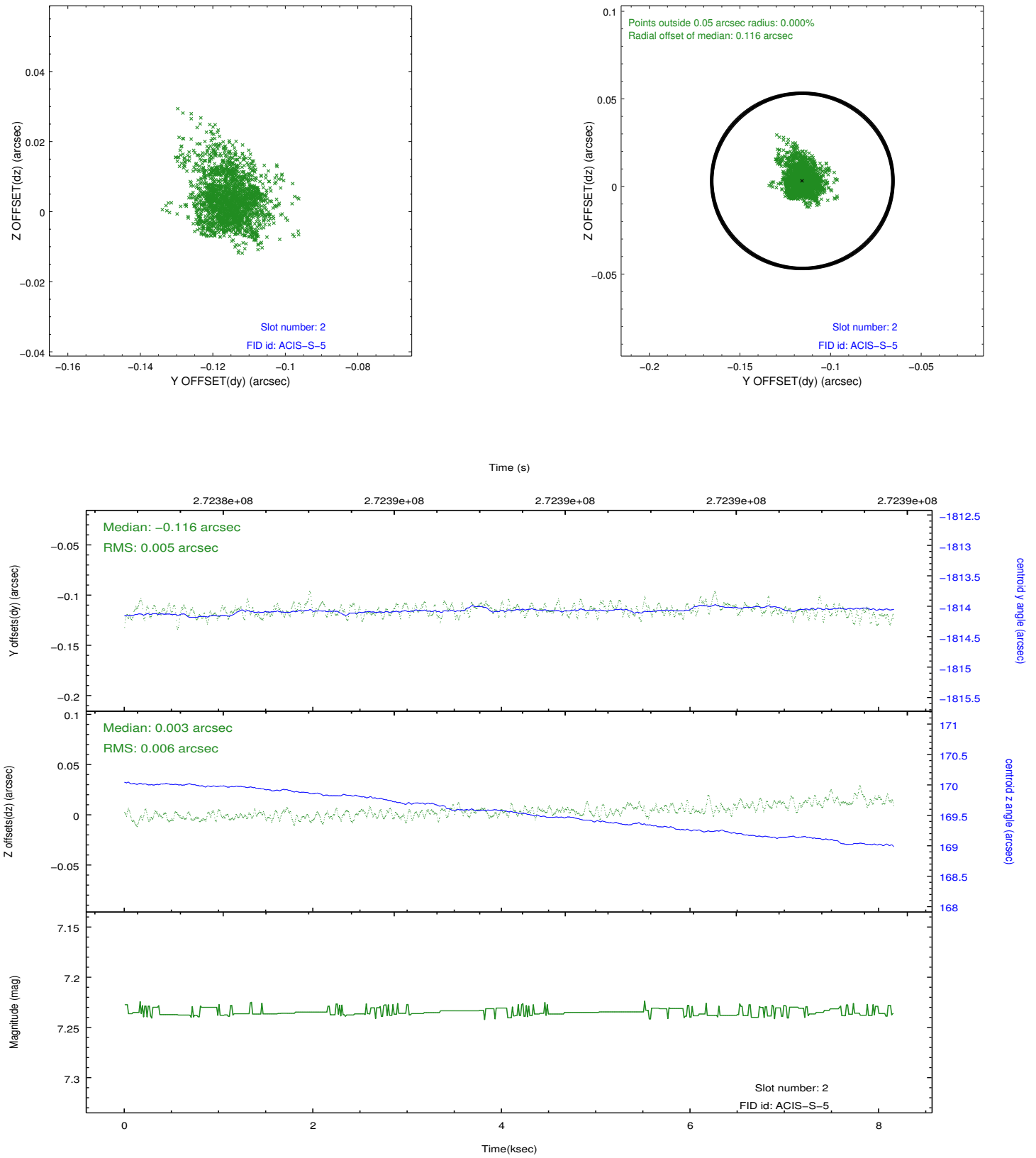
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.15359996 |

A.2 Comments