

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4895 - L2 Version 3
Chandra X-Ray Center

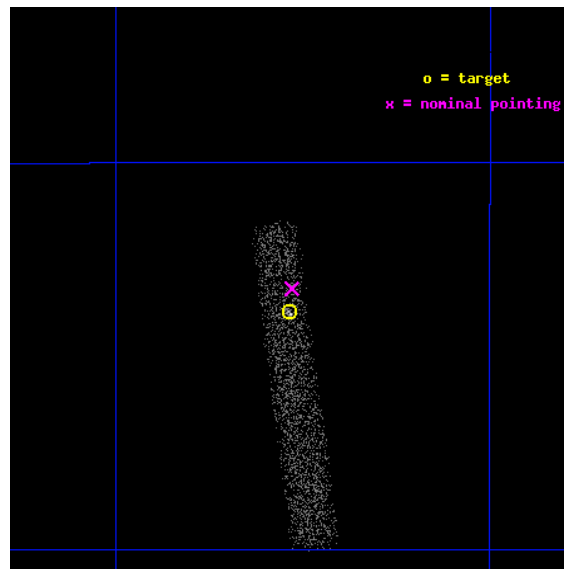
L2 Processing Date : Nov 10 2012

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1 Front

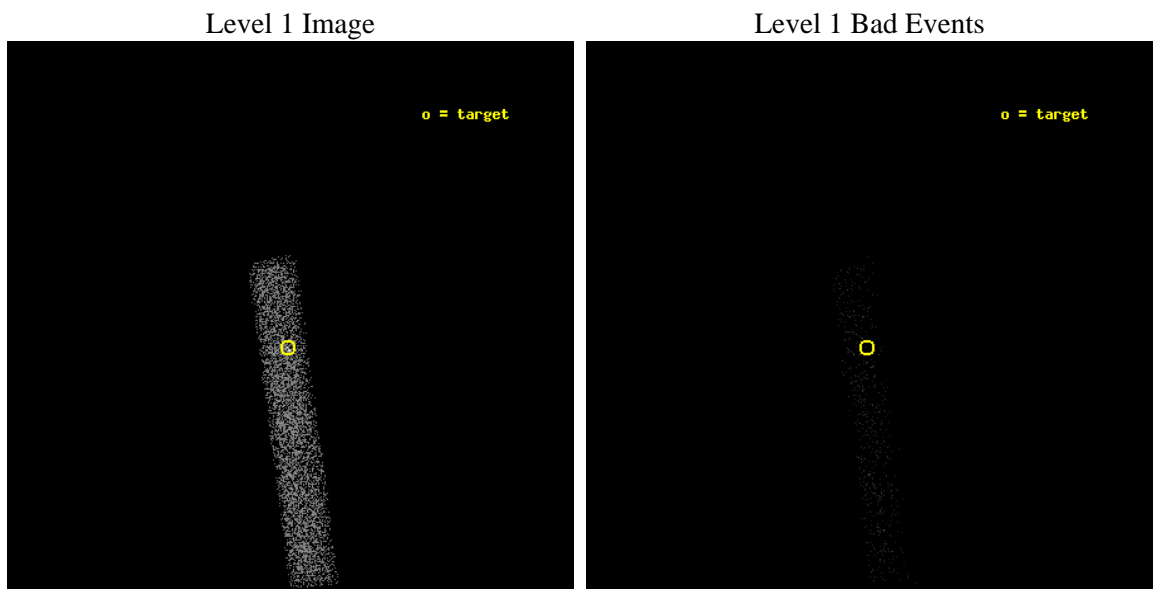
| | | |
|----------|---|---|
| seq_num | 700977 | Sequence number |
| obs_id | 4895 | Observation id |
| title | Continuing a Flux-limited Survey for X-ray Emission from Radio Jets | |
| observer | Dr. Herman Marshall | Principal investigator |
| object | 1421-490 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 216.134167 | Observer's specified target RA [deg] |
| dec_targ | -49.230806 | Observer's specified target Dec [deg] |
| ra_nom | 216.13242344516 | Nominal RA [deg] |
| dec_nom | -49.221019798823 | Nominal Dec [deg] |
| roll_nom | 82.358475649648 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 6034.0000898838 | Sum of GTIs [s] |
| livetime | 5472.519580885 | Livetime [s] |
| ontime7 | 6034.0000898838 | Sum of GTIs [s] |
| l2events | 3210 | Number of level 2 events |



2 OBI

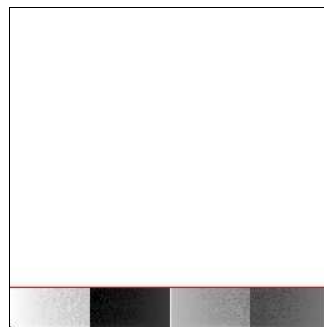
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 5856.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 6034.0000898838 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime7 | 6034.0000898838 | Sum of GTIs [s] |
| date | 2012-11-10T21:59:50 | Date and time of file creation | l1events | 7780 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

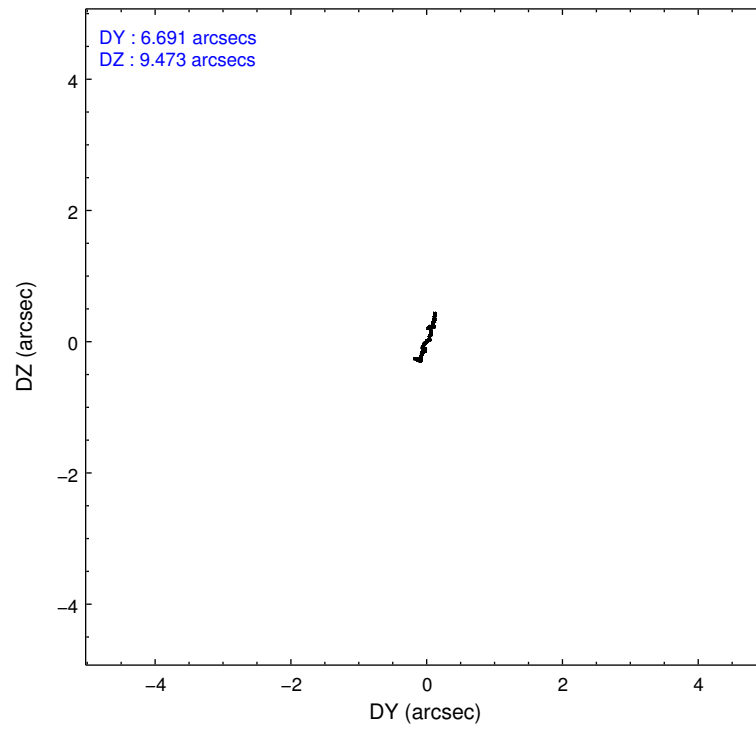
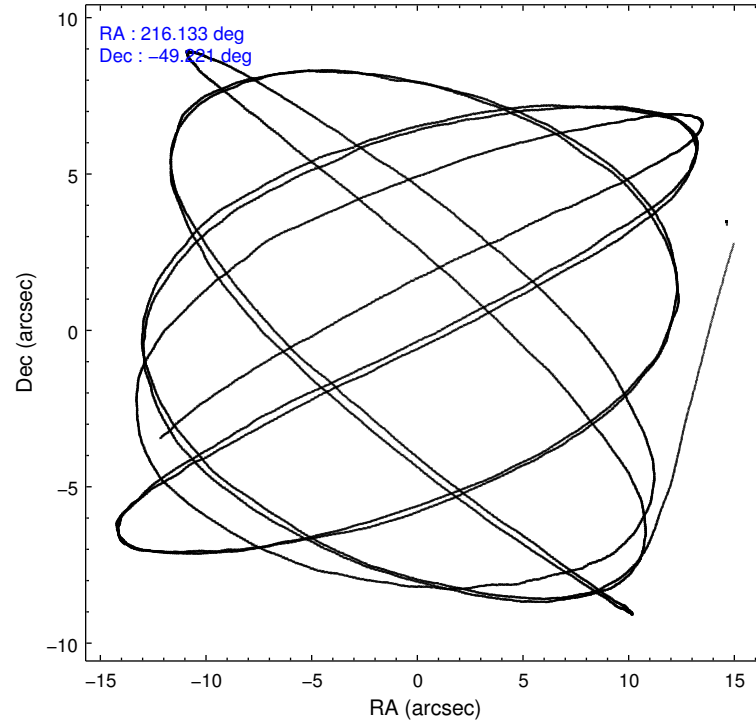
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 7780 |
| rejected events | 4467 |
| rejected % | 57% |

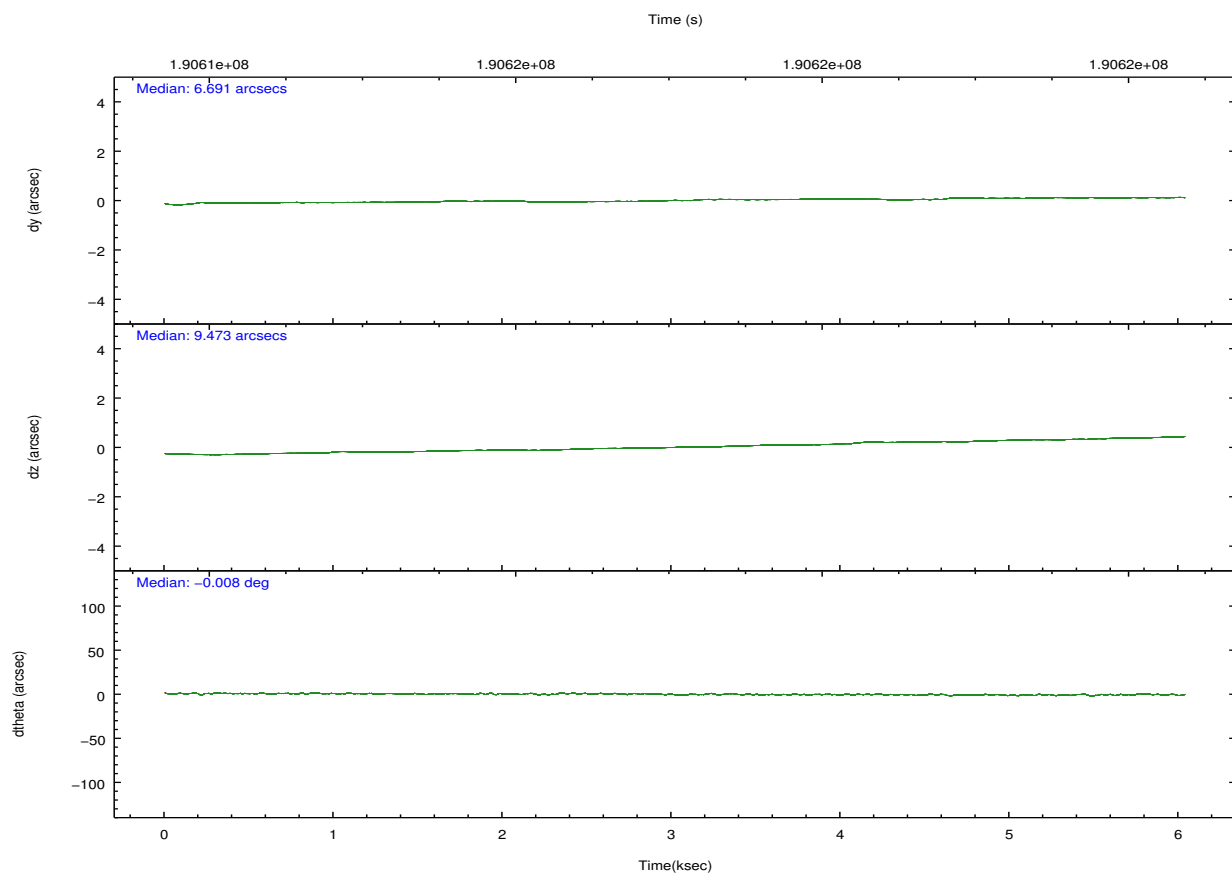
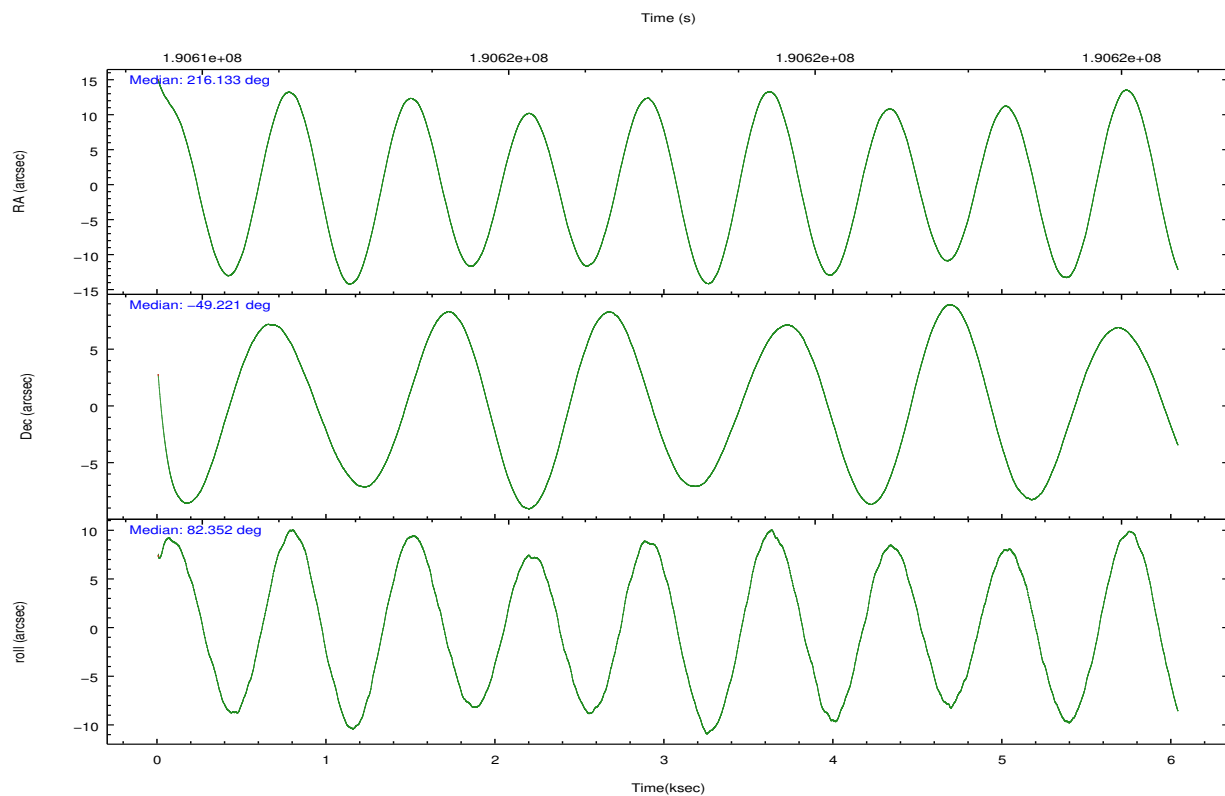
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 424 |
| | 5% |
| grade 1 events | 6 |
| | 0% |
| grade 2 events | 666 |
| | 8% |
| grade 3 events | 483 |
| | 6% |
| grade 4 events | 468 |
| | 6% |
| grade 5 events | 654 |
| | 8% |
| grade 6 events | 1700 |
| | 21% |
| grade 7 events | 3379 |
| | 43% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-7 | ACIS-7 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 216.148746 | 216.1324234451635 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -49.246063 | -49.22101979882277 | Subarray start row | 1 | 1 |
| [deg] Pointing Roll | 82.214233 | 82.35847564964794 | Subarray row count | 128 | 128 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | [s] Primary exposure time | 0.000000 | 0.4 |
| [mm] SIM translation stage pos | -178.632523 | -178.6395878605364 | | | |
| [mm] SIM translation stage offset | -11.5 | -11.49293472247138 | | | |
| [s] Observation start time (MET) | 190614202.184000 | 190613181.00502 | | | |
| Observation start date | 2004-01-16T04:22:18 | 2004-01-16T04:06:21 | | | |
| [s] Observation end time (MET) | 190620058.184000 | 190620925.90536 | | | |
| Observation end date | 2004-01-16T05:59:54 | 2004-01-16T06:15:25 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



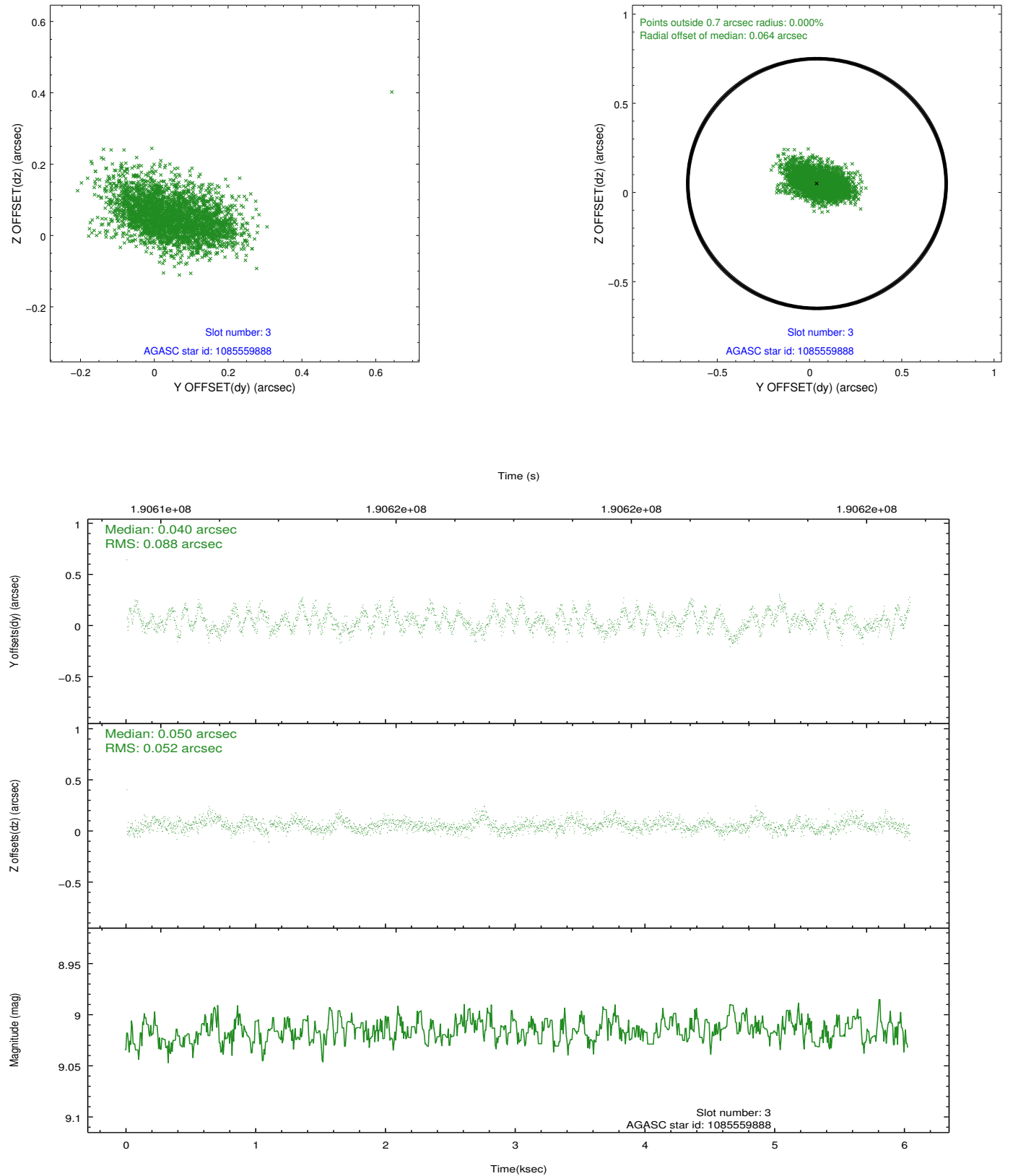


Slot Statistics

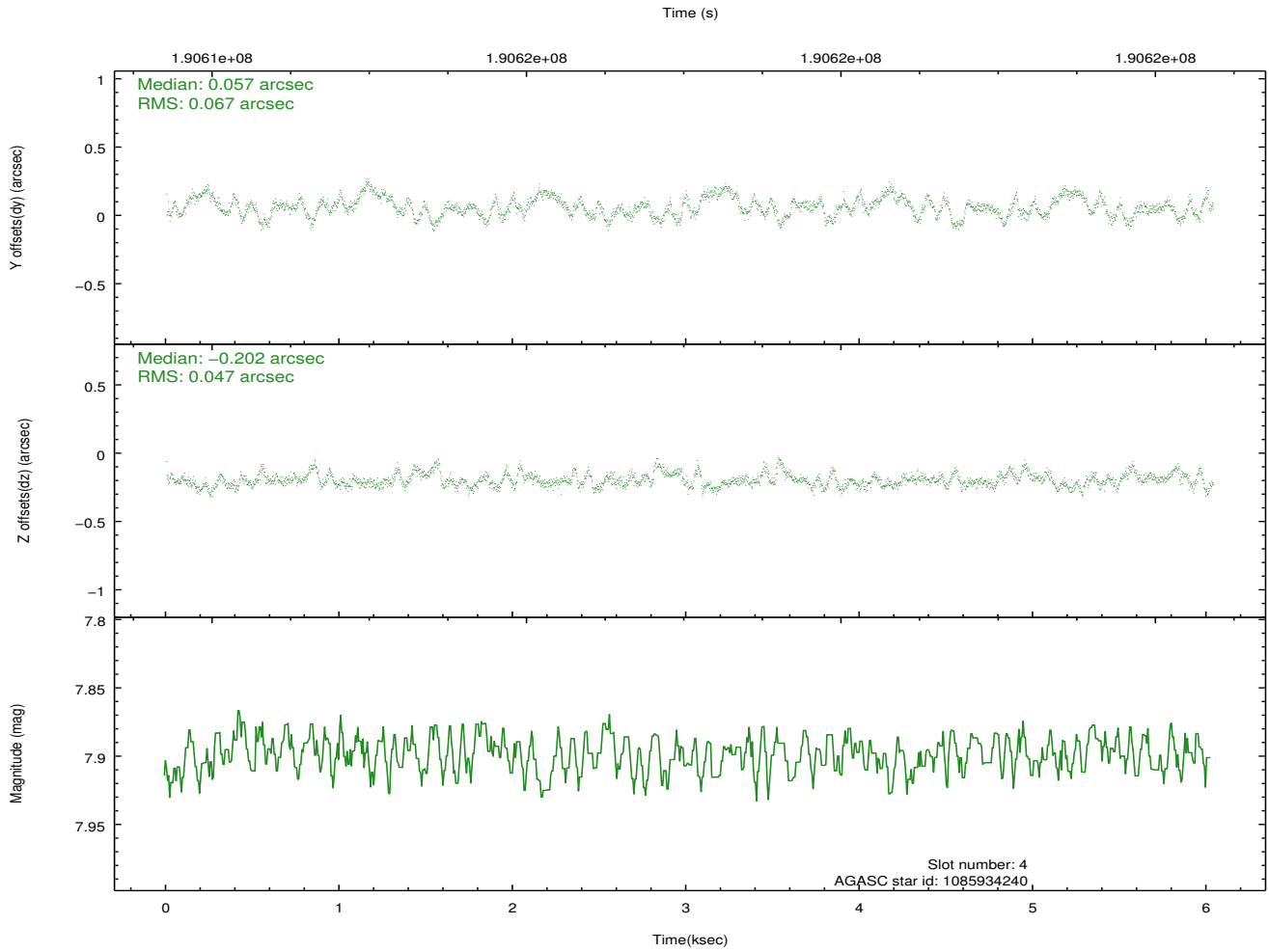
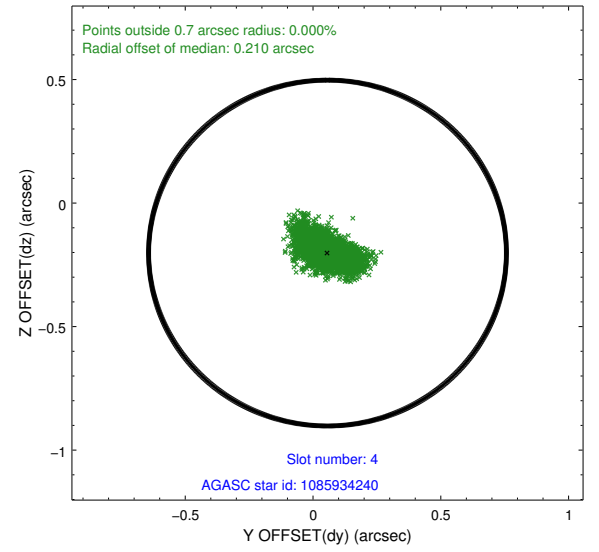
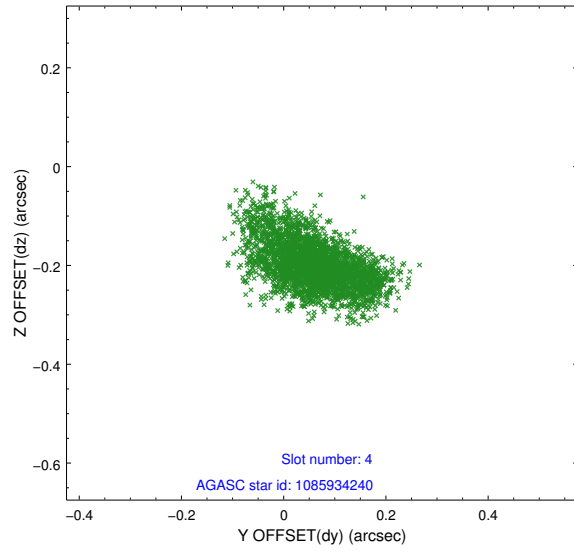
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-1 | 7.19 | 1473 | 0.025 | 0.241 | 0.012 | 0.018 | 0.000000 | 0.000000 | 937.58 | -1962.67 |
| 1 | FID | ACIS-S-2 | 7.08 | 1472 | -0.190 | -0.225 | 0.008 | 0.014 | 0.000000 | 0.000000 | -757.99 | -1968.94 |
| 2 | FID | ACIS-S-6 | 7.43 | 1473 | 0.145 | -0.014 | 0.008 | 0.012 | 0.000000 | 0.000000 | 402.79 | 577.20 |
| 3 | GUIDE | 1085559888 | 9.02 | 2945 | 0.040 | 0.050 | 0.108 | 0.179 | 217.249097 | -48.696948 | 2294.50 | -2324.45 |
| 4 | GUIDE | 1085934240 | 7.90 | 2944 | 0.057 | -0.202 | 0.087 | 0.146 | 215.229893 | -49.366645 | -734.14 | 2073.06 |
| 5 | GUIDE | 1085941048 | 9.58 | 2945 | 0.160 | -0.214 | 0.103 | 0.170 | 215.130117 | -49.703595 | -1969.30 | 2125.23 |
| 6 | GUIDE | 1085947088 | 9.38 | 2944 | 0.097 | 0.176 | 0.089 | 0.152 | 216.086243 | -49.693679 | -1616.72 | -72.91 |
| 7 | GUIDE | 1085562712 | 7.11 | 2944 | -0.355 | 0.176 | 0.059 | 0.100 | 216.822277 | -48.636295 | 2384.13 | -1290.04 |

2.4 Star Slots

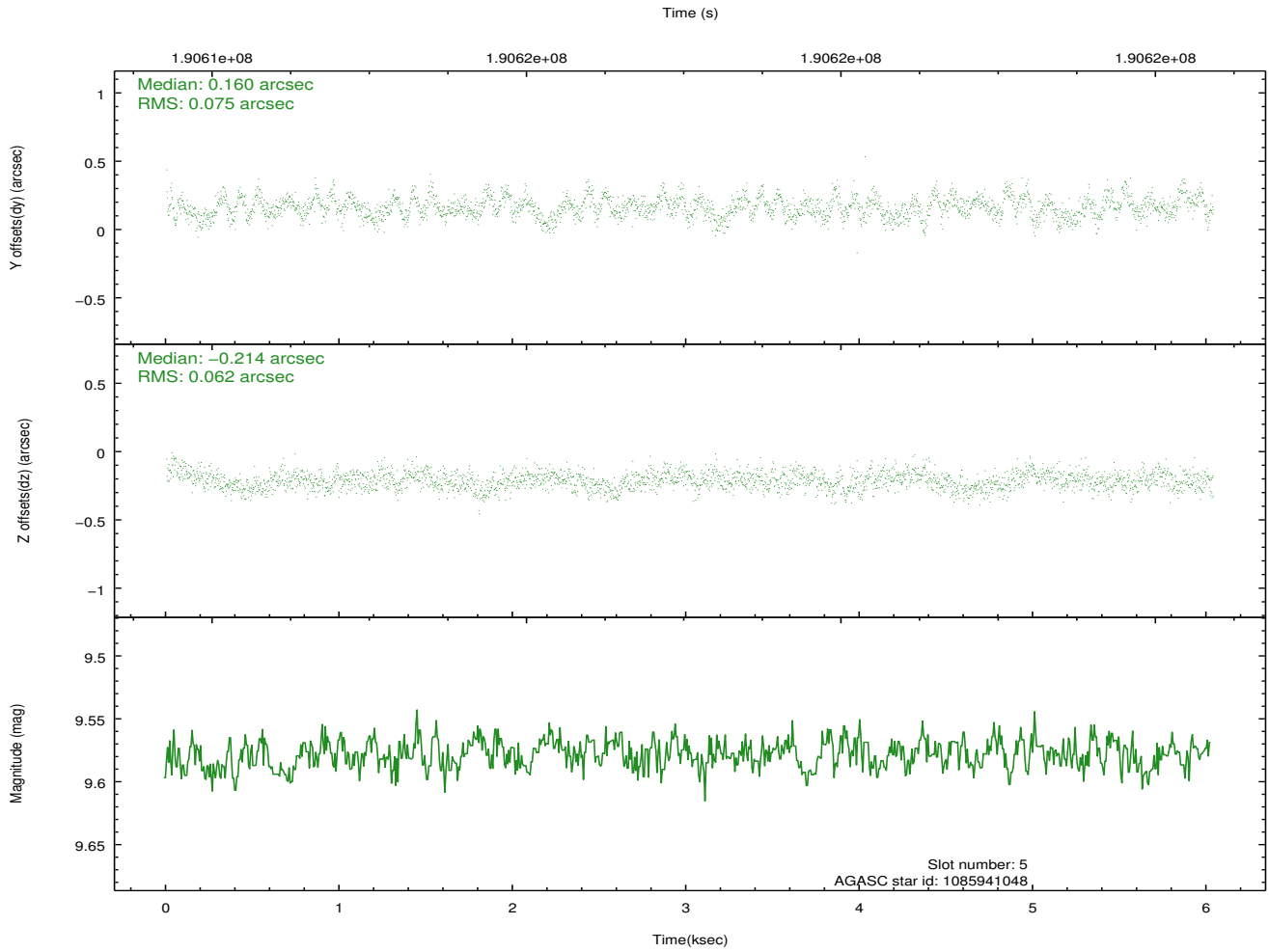
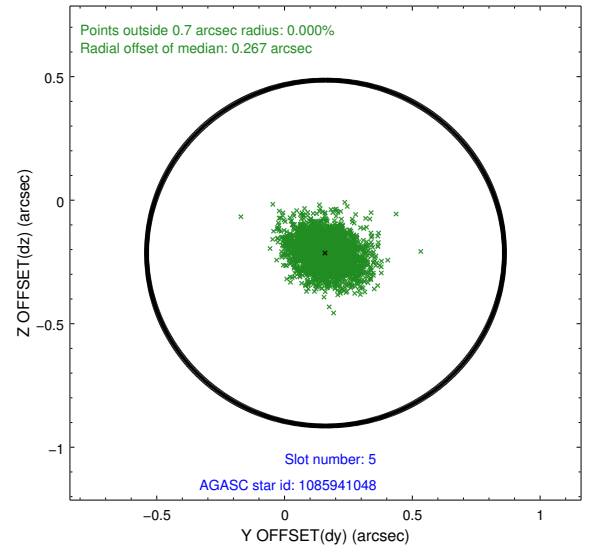
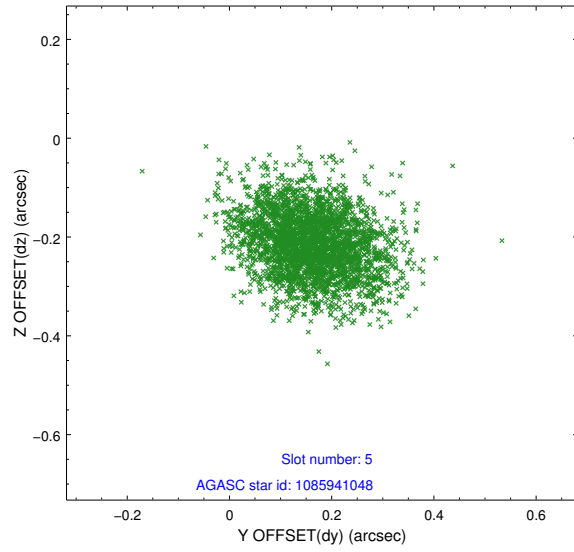
2.4.1 Slot 3



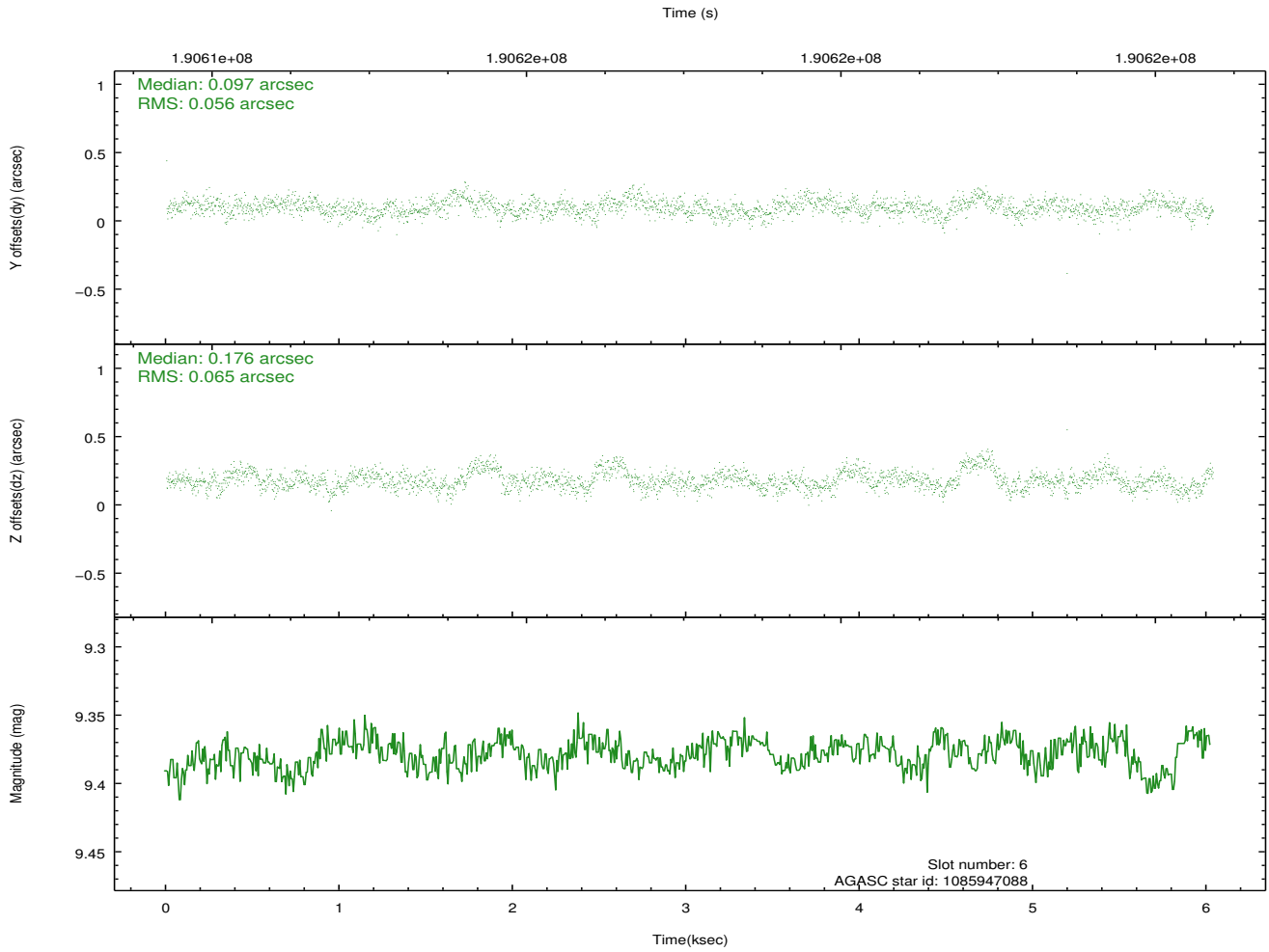
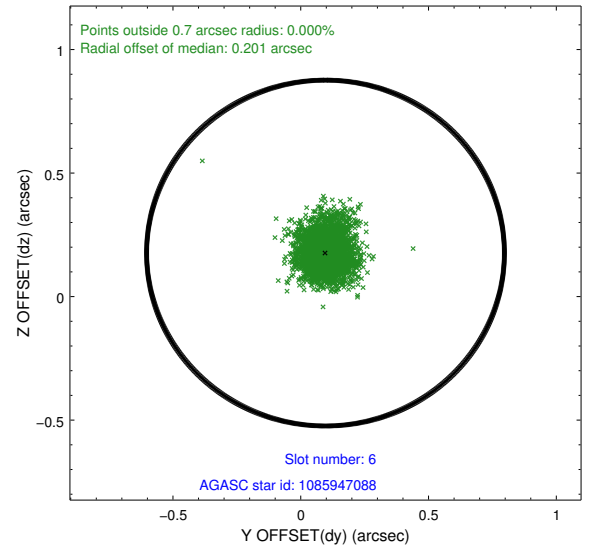
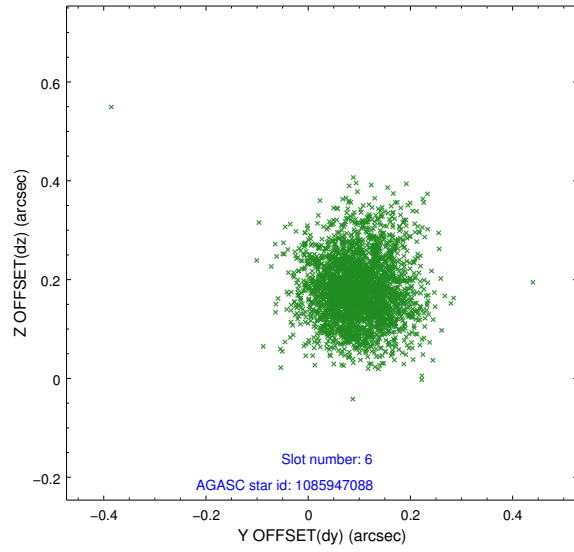
2.4.2 Slot 4



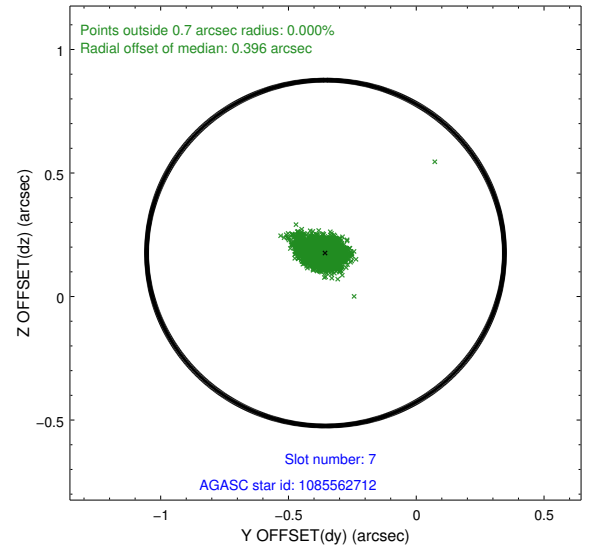
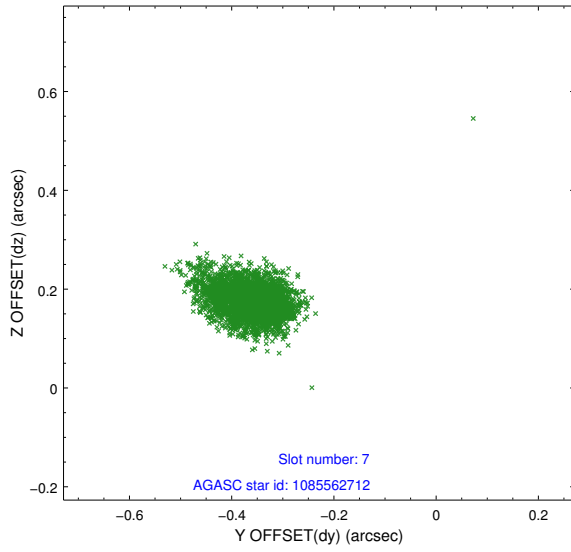
2.4.3 Slot 5



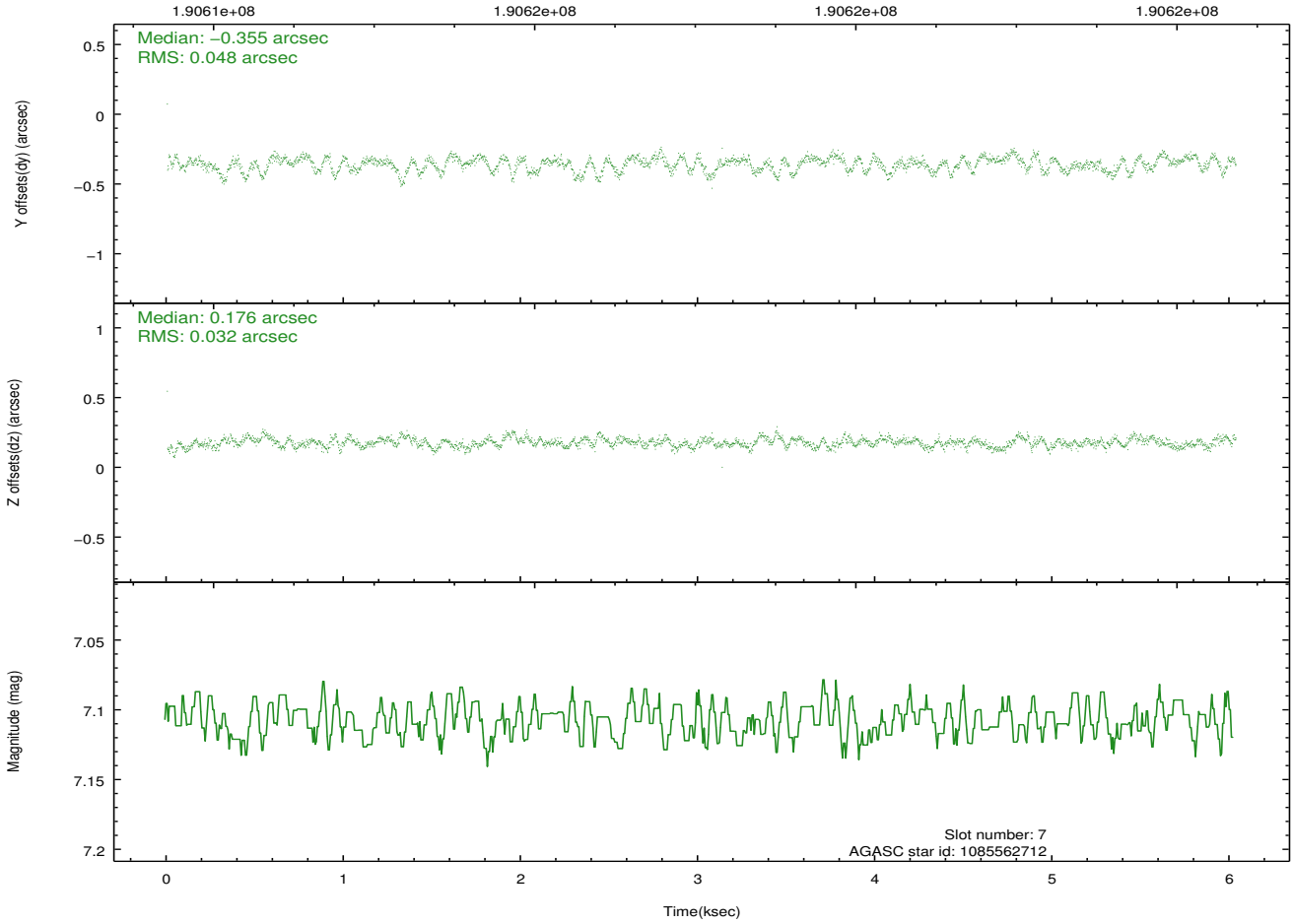
2.4.4 Slot 6



2.4.5 Slot 7

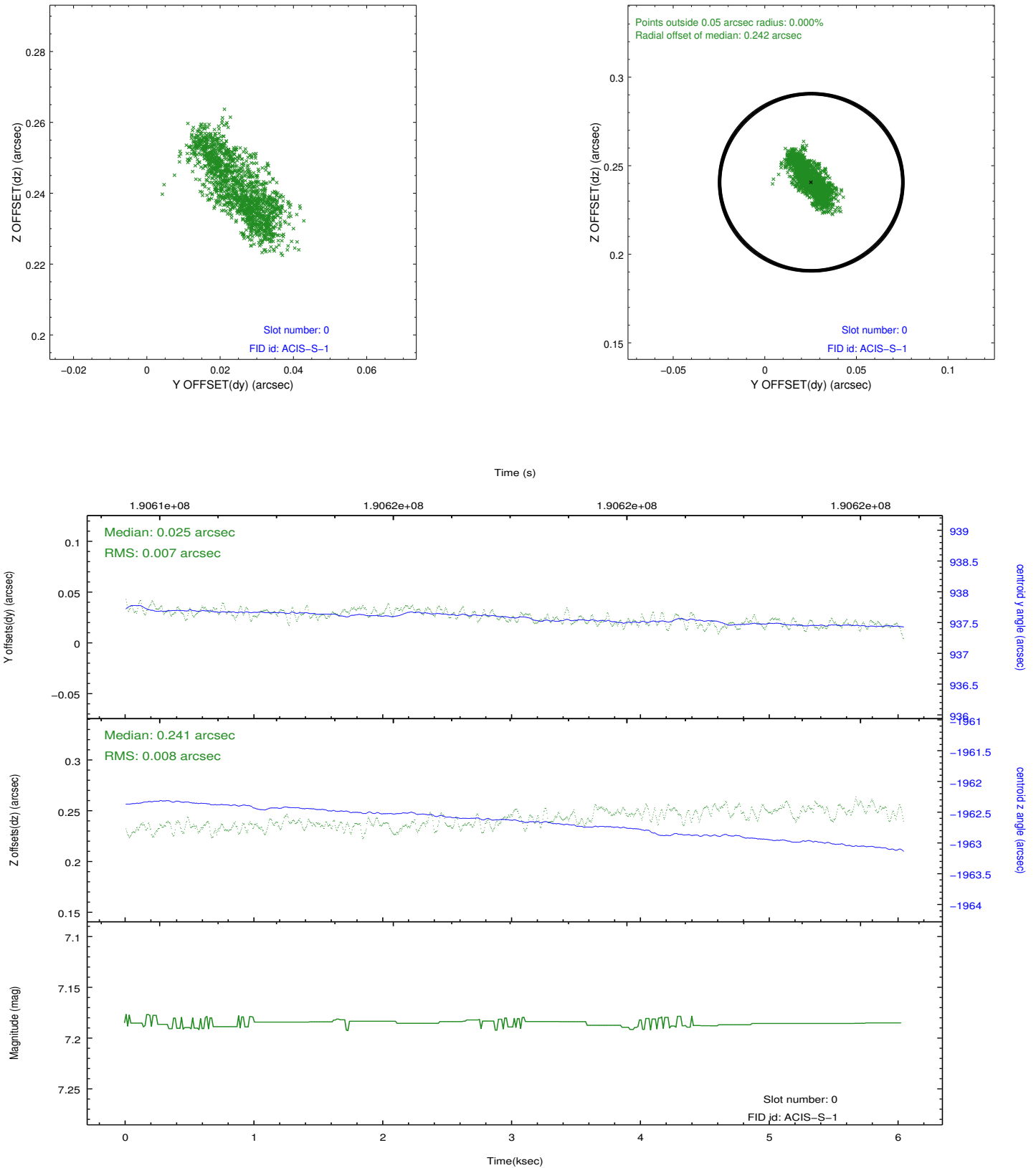


Time (s)

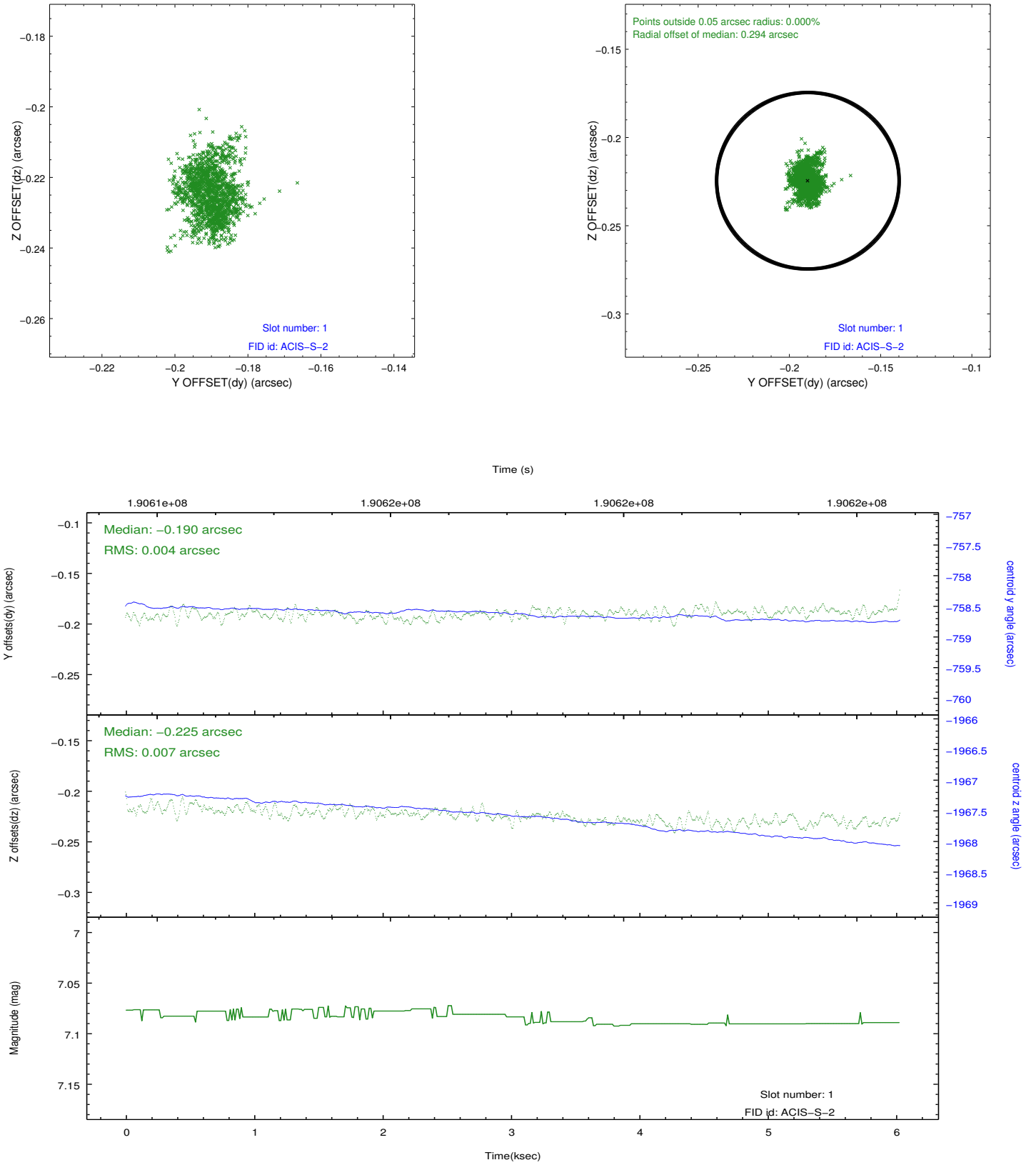


2.5 FID Slots

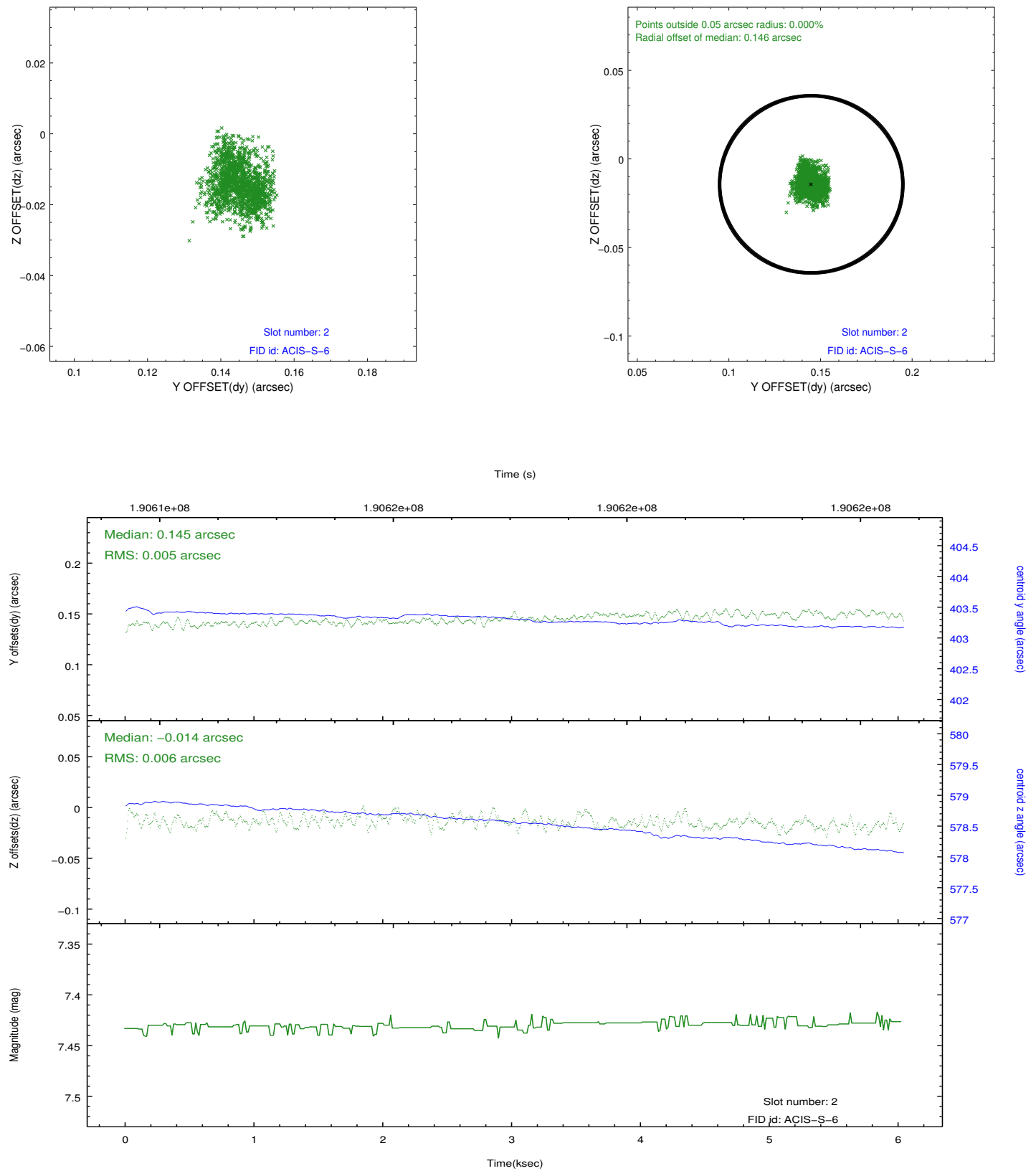
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.11.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.034 |

A.2 Comments