

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4222 - L2 Version 3
Chandra X-Ray Center

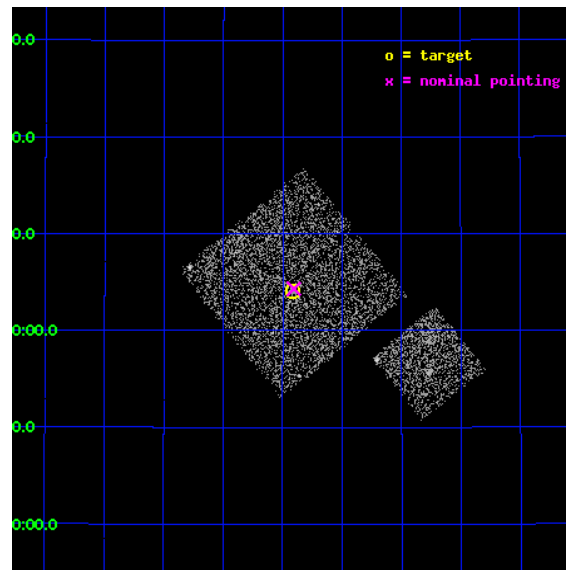
L2 Processing Date : Oct 25 2012

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1 Front

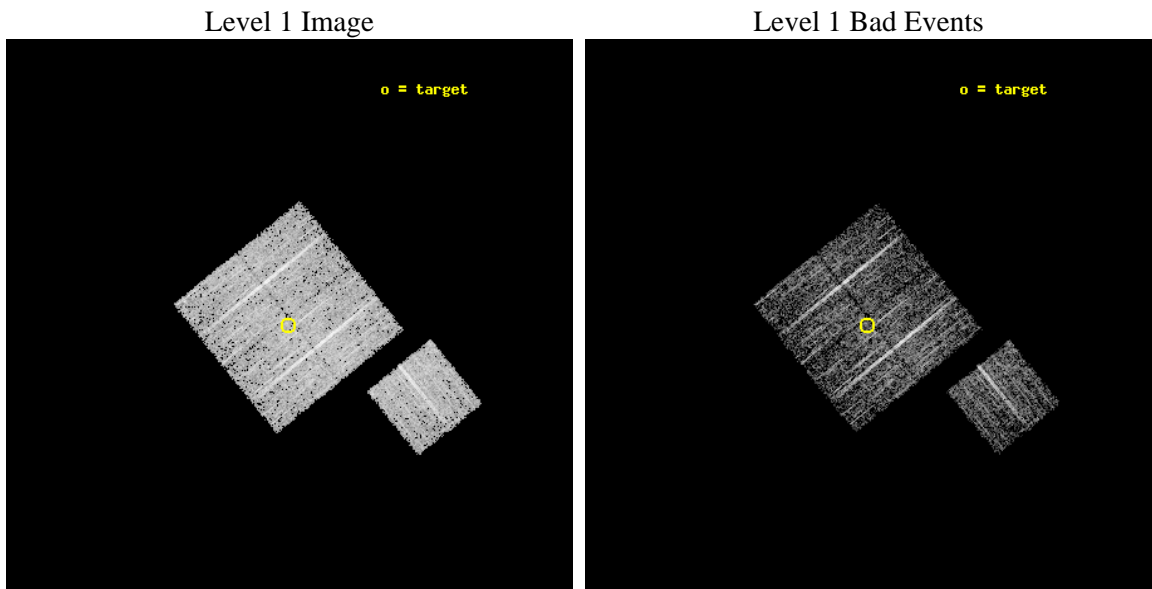
| | | |
|----------|--|---|
| seq_num | 900265 | Sequence number |
| obs_id | 4222 | Observation id |
| title | A CHANDRA WIDE-FIELD SURVEY TO MAP THE COSMIC WEB AND INVESTIGATE THE EVOLUTION OF NUCLEAR ACCRETION | Proposal title |
| observer | Dr. Christine Jones | Principal investigator |
| object | SS1 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 217.604097 | Observer's specified target RA [deg] |
| dec_targ | 34.068 | Observer's specified target Dec [deg] |
| ra_nom | 217.60137573747 | Nominal RA [deg] |
| dec_nom | 34.072039231958 | Nominal Dec [deg] |
| roll_nom | 141.01022066614 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4674.191206634 | Sum of GTIs [s] |
| livetime | 4613.1194574299 | Livetime [s] |
| ontime0 | 4674.0680866241 | Sum of GTIs [s] |
| ontime1 | 4674.1091266274 | Sum of GTIs [s] |
| ontime2 | 4674.1501666307 | Sum of GTIs [s] |
| ontime3 | 4674.191206634 | Sum of GTIs [s] |
| ontime6 | 4674.0270466208 | Sum of GTIs [s] |
| l2events | 9205 | Number of level 2 events |



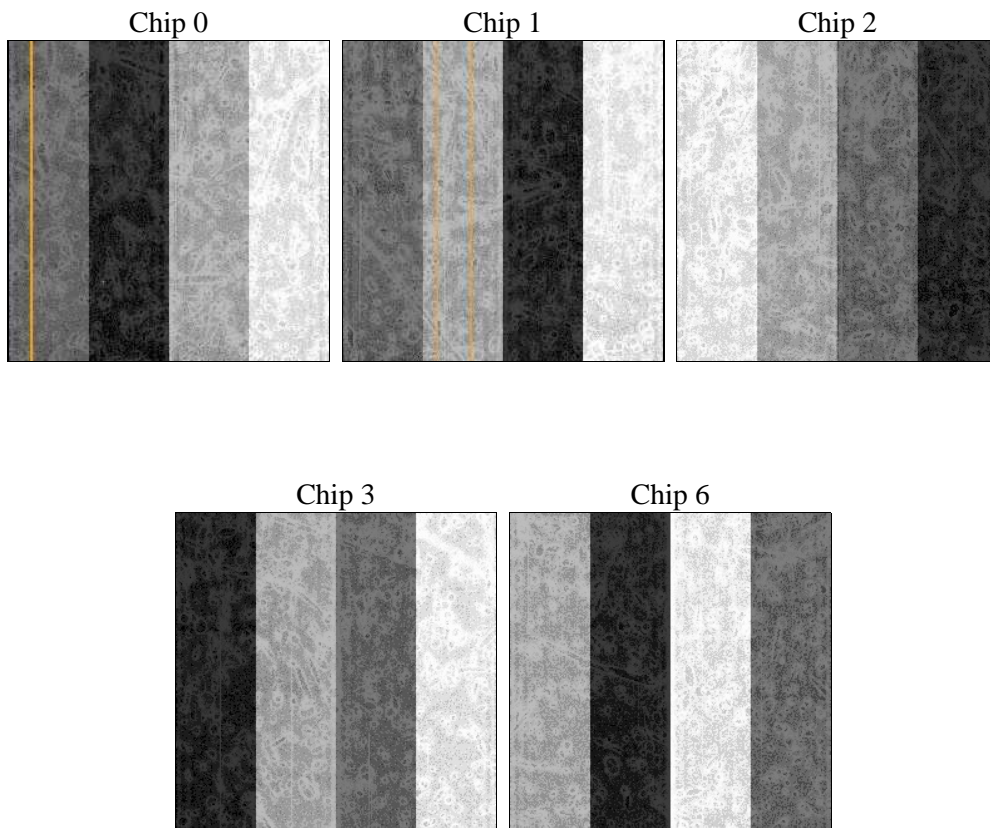
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 4900.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 4674.191206634 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 4674.0680866241 | Sum of GTIs [s] |
| date | 2012-10-25T15:32:00 | Date and time of file creation | ontime1 | 4674.1091266274 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 4674.1501666307 | Sum of GTIs [s] |
| | | | ontime3 | 4674.191206634 | Sum of GTIs [s] |
| | | | ontime6 | 4674.0270466208 | Sum of GTIs [s] |
| | | | l1events | 109916 | Number of level 1 events |

2.1.4 Events

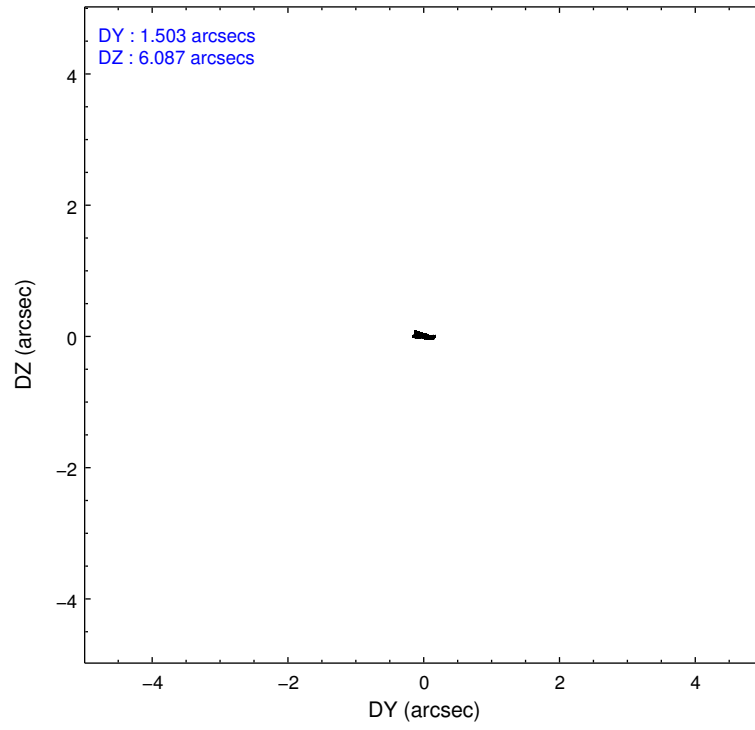
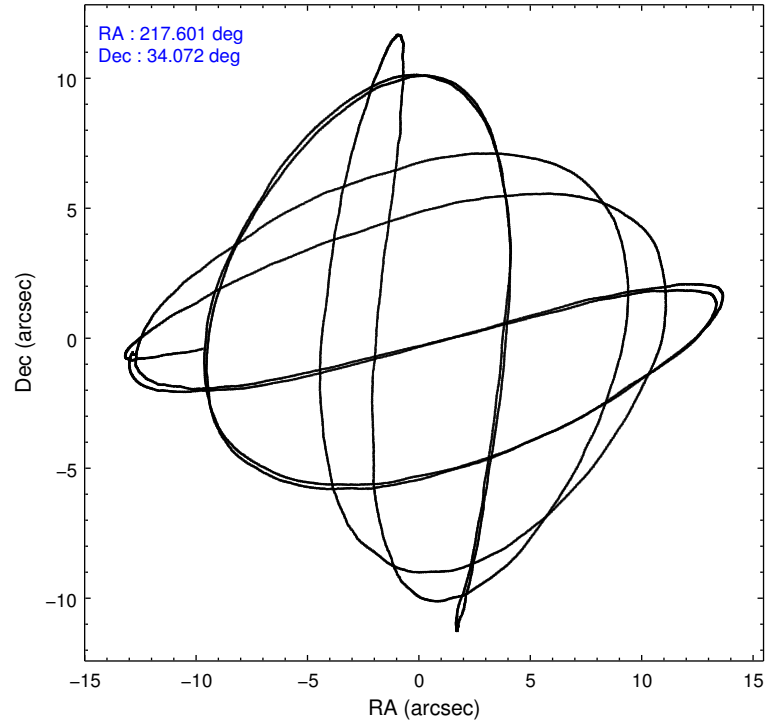
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 20025 | 21827 | 24243 | 22082 | 21739 |
| rejected events | 17845 | 19445 | 22053 | 20017 | 19277 |
| rejected % | 89% | 89% | 90% | 90% | 88% |

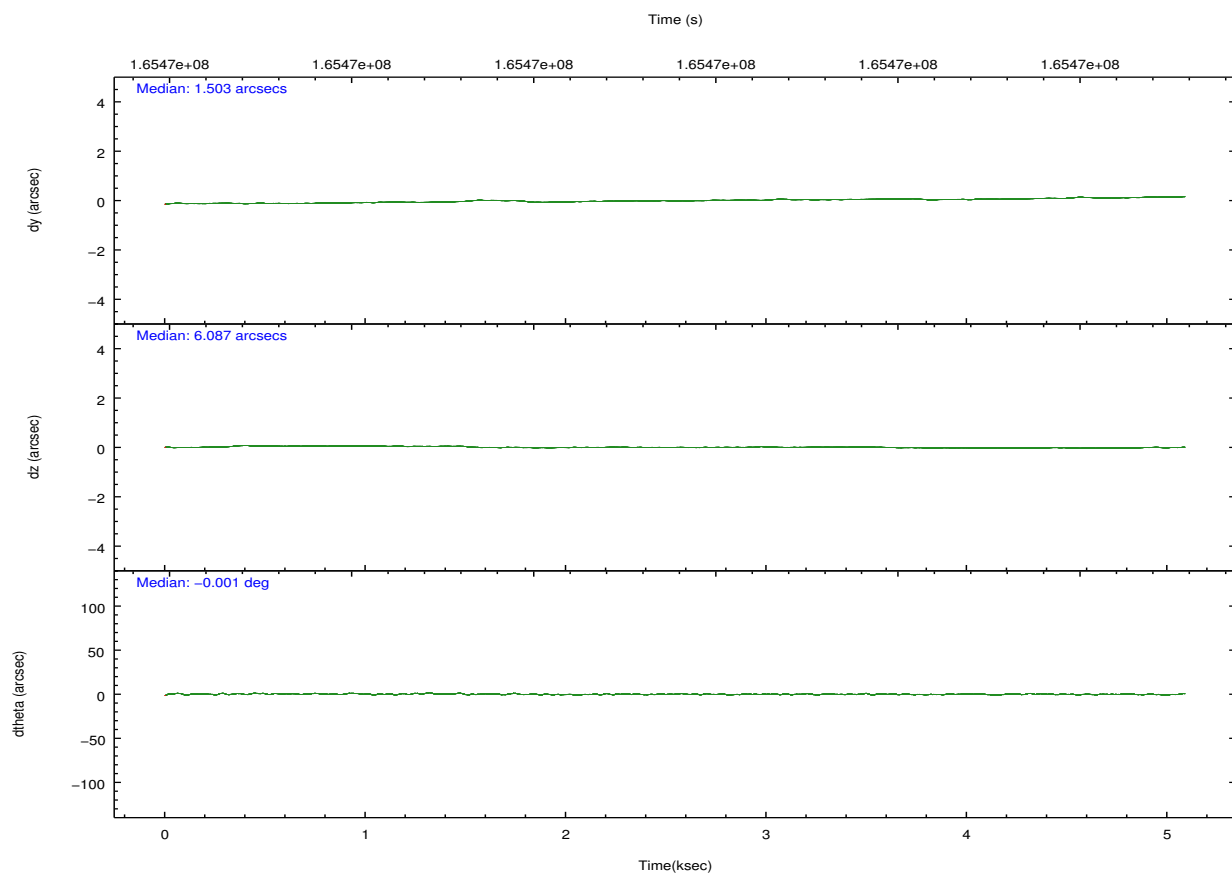
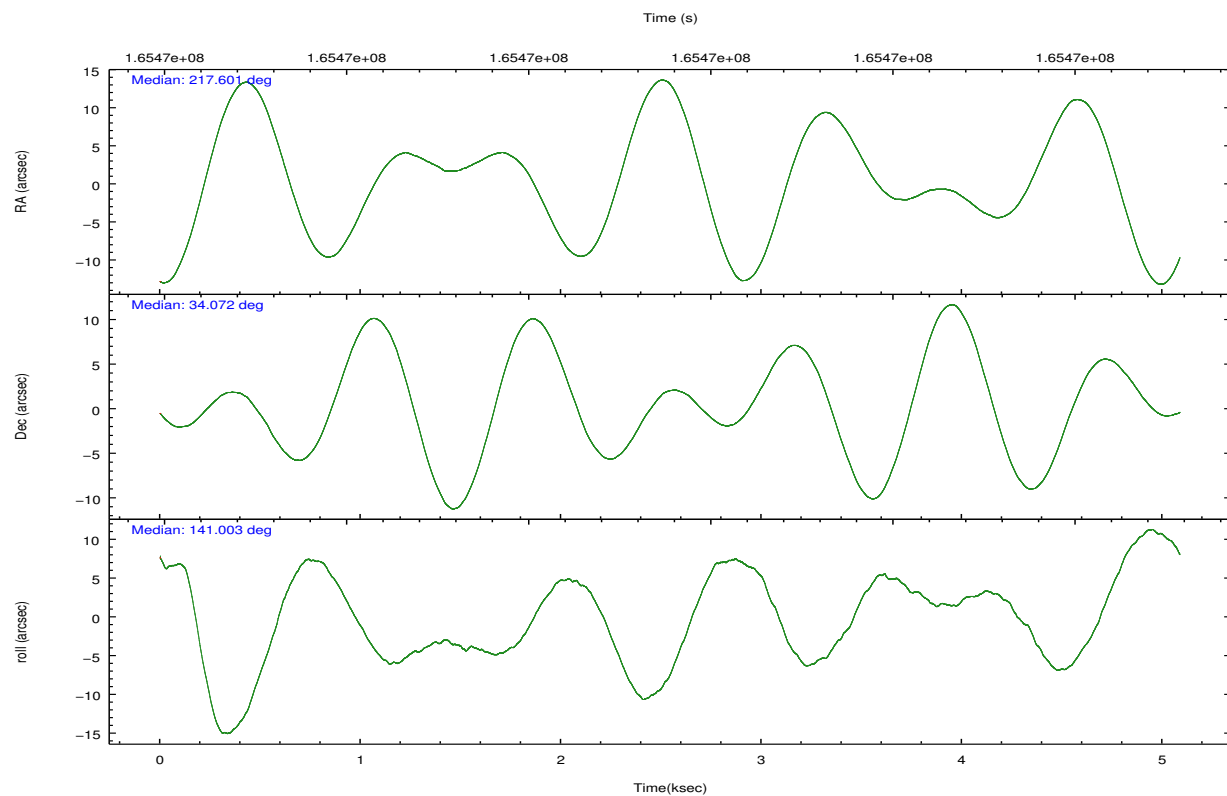
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 814 | 830 | 811 | 766 | 1031 |
| | 4% | 3% | 3% | 3% | 4% |
| grade 1 events | 7 | 11 | 9 | 8 | 10 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 460 | 470 | 505 | 413 | 482 |
| | 2% | 2% | 2% | 1% | 2% |
| grade 3 events | 272 | 307 | 238 | 239 | 257 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 4 events | 266 | 305 | 259 | 253 | 250 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 671 | 689 | 610 | 732 | 789 |
| | 3% | 3% | 2% | 3% | 3% |
| grade 6 events | 370 | 472 | 380 | 395 | 448 |
| | 1% | 2% | 1% | 1% | 2% |
| grade 7 events | 17165 | 18743 | 21431 | 19276 | 18472 |
| | 85% | 85% | 88% | 87% | 84% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-01236 | ACIS-01236 | 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 | 217.634139 | 217.6013757374723 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 34.067917 | 34.07203923195785 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 140.783168 | 141.0102206661409 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 165469424.184000 | 165469047.91575 | | | |
| Observation start date | 2003-03-31T03:42:40 | 2003-03-31T03:37:27 | | | |
| [s] Observation end time (MET) | 165474324.184000 | 165474457.86598 | | | |
| Observation end date | 2003-03-31T05:04:20 | 2003-03-31T05:07:37 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



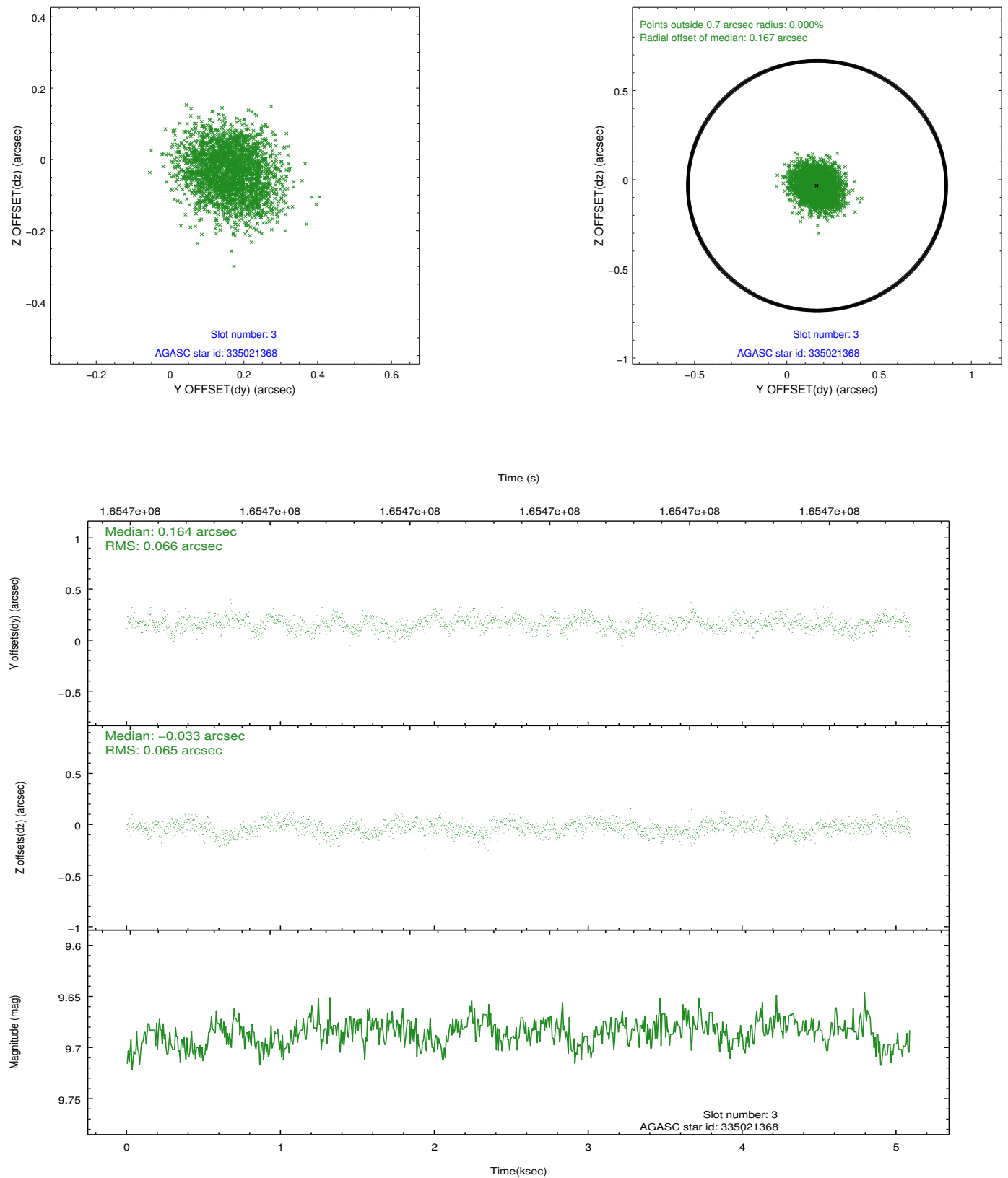


Slot Statistics

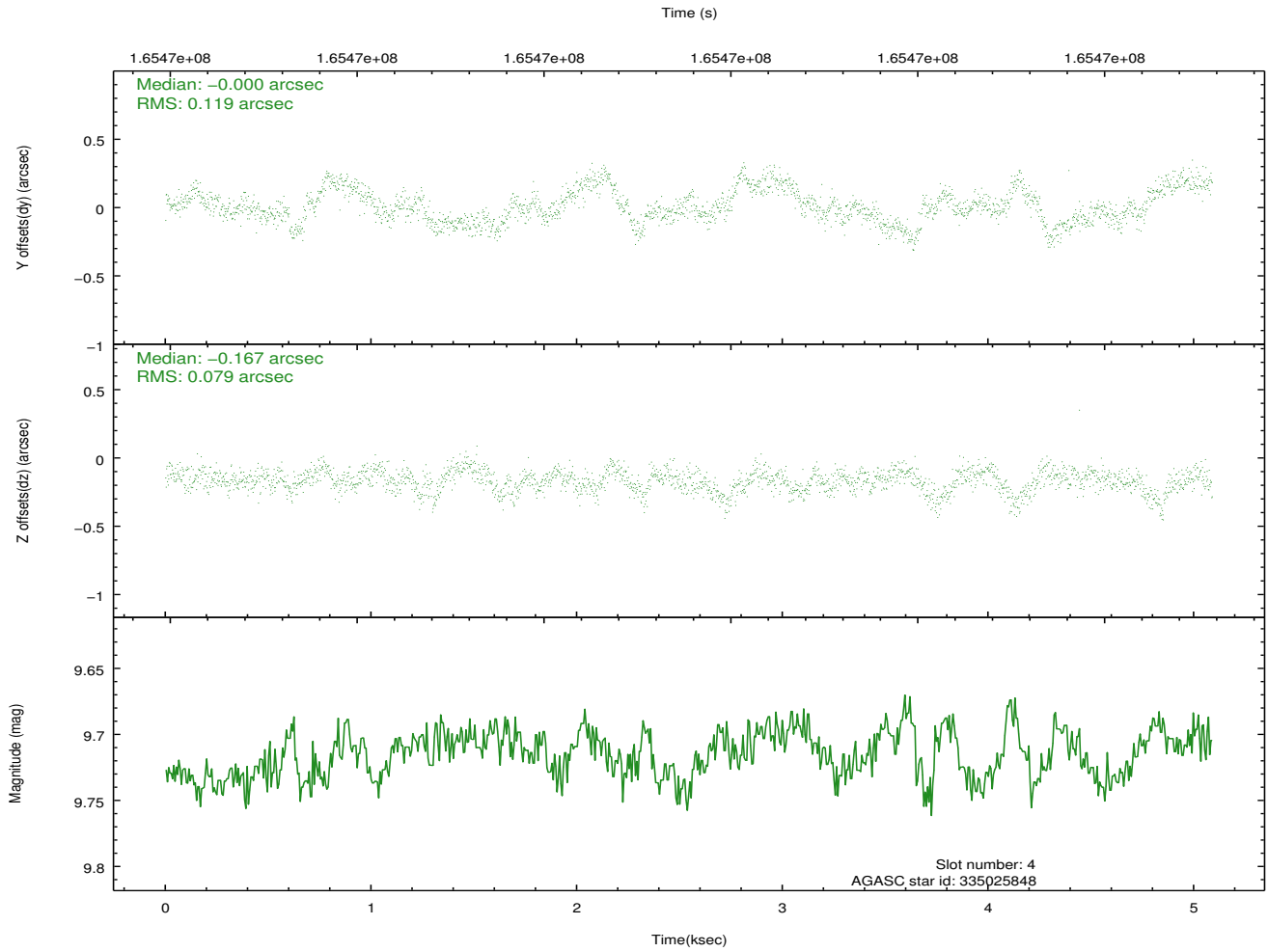
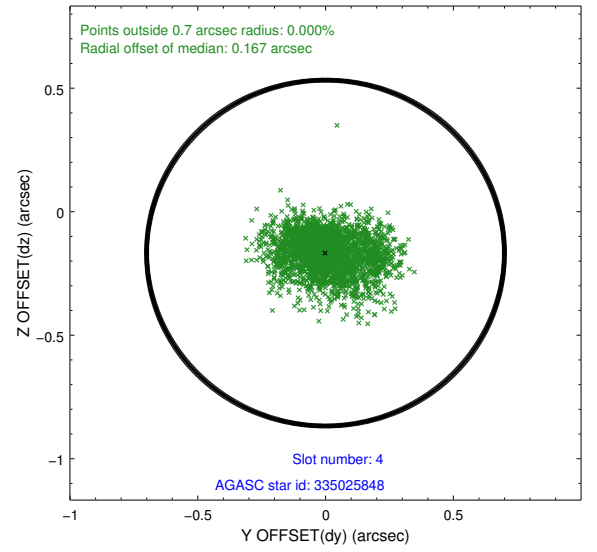
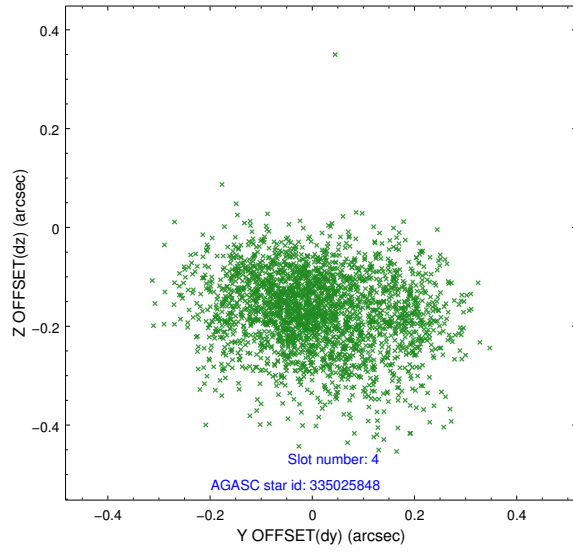
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.25 | 1242 | -0.002 | 0.001 | 0.006 | 0.010 | 0.000000 | 0.000000 | 938.32 | -829.48 |
| 1 | FID | ACIS-I-5 | 7.24 | 1242 | -0.076 | 0.039 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1809.17 | 1067.50 |
| 2 | FID | ACIS-I-6 | 7.27 | 1242 | -0.014 | 0.031 | 0.007 | 0.011 | 0.000000 | 0.000000 | 402.60 | 1713.31 |
| 3 | GUIDE | 335021368 | 9.69 | 2483 | 0.164 | -0.033 | 0.101 | 0.158 | 217.529643 | 33.934817 | -60.85 | 568.38 |
| 4 | GUIDE | 335025848 | 9.71 | 2483 | -0.000 | -0.167 | 0.155 | 0.248 | 217.530531 | 33.778292 | -418.98 | 1003.69 |
| 5 | GUIDE | 335028336 | 9.48 | 2481 | -0.107 | 0.031 | 0.117 | 0.186 | 217.189840 | 34.665629 | 2381.47 | -836.84 |
| 6 | GUIDE | 335028696 | 9.20 | 2477 | -0.012 | 0.117 | 0.091 | 0.145 | 217.260519 | 33.844112 | 358.27 | 1328.77 |
| 7 | GUIDE | 335023248 | 8.96 | 2482 | -0.050 | 0.052 | 0.108 | 0.180 | 217.634832 | 34.944512 | 1994.27 | -2445.47 |

2.4 Star Slots

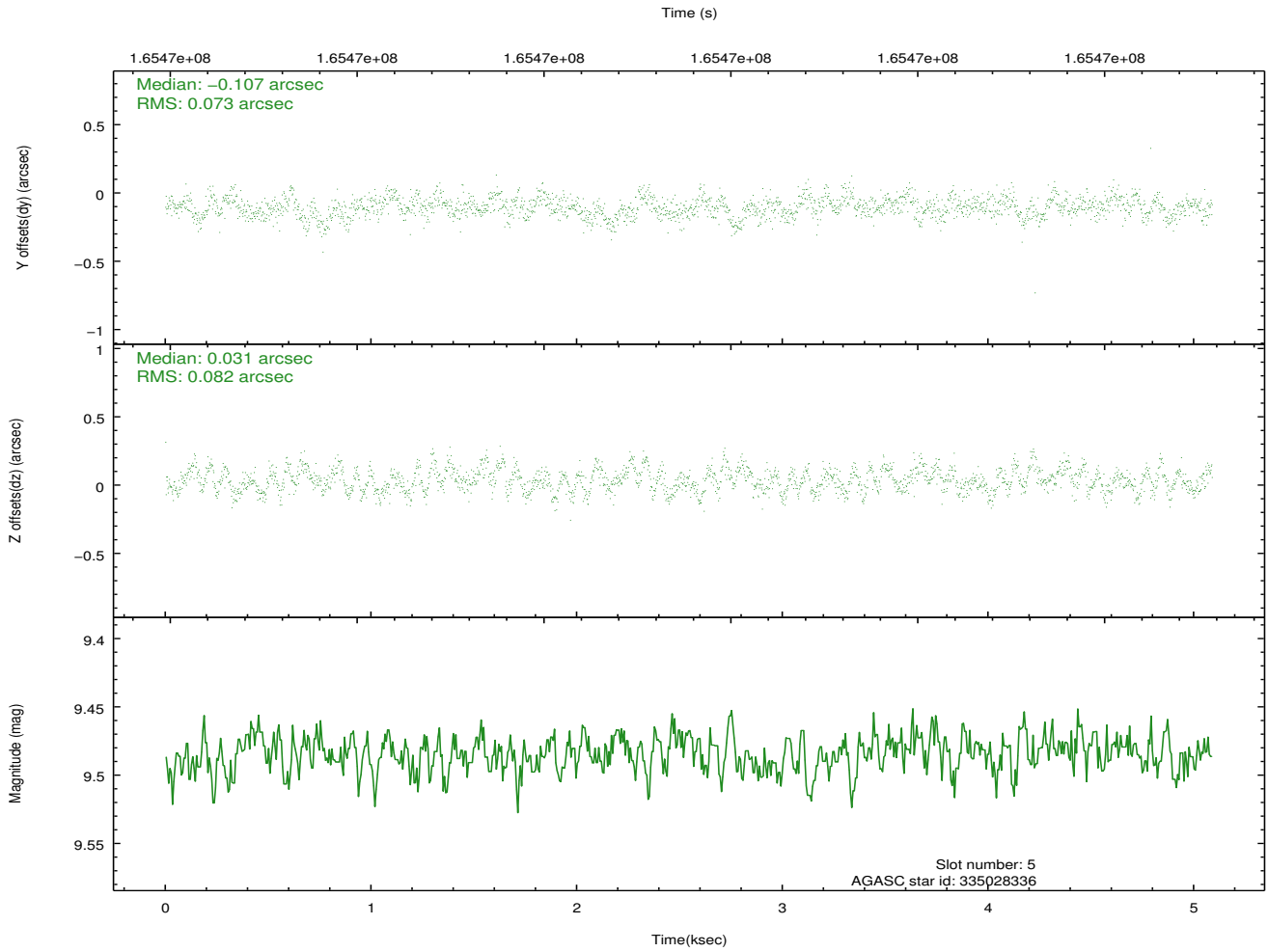
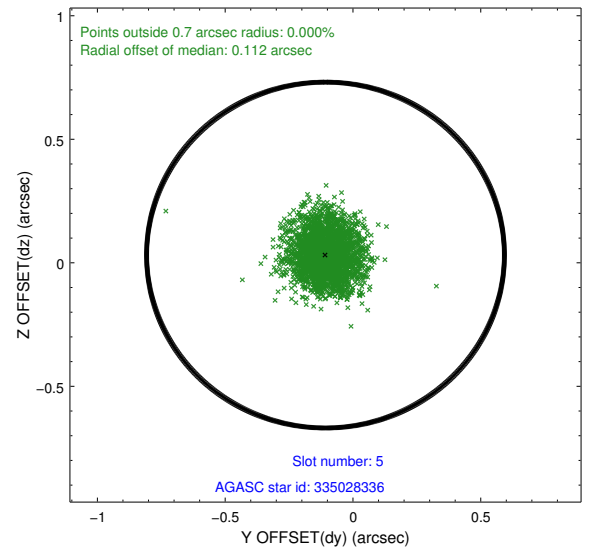
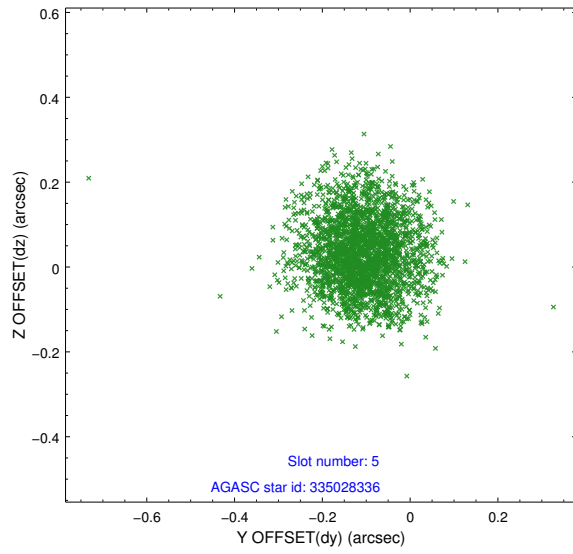
2.4.1 Slot 3



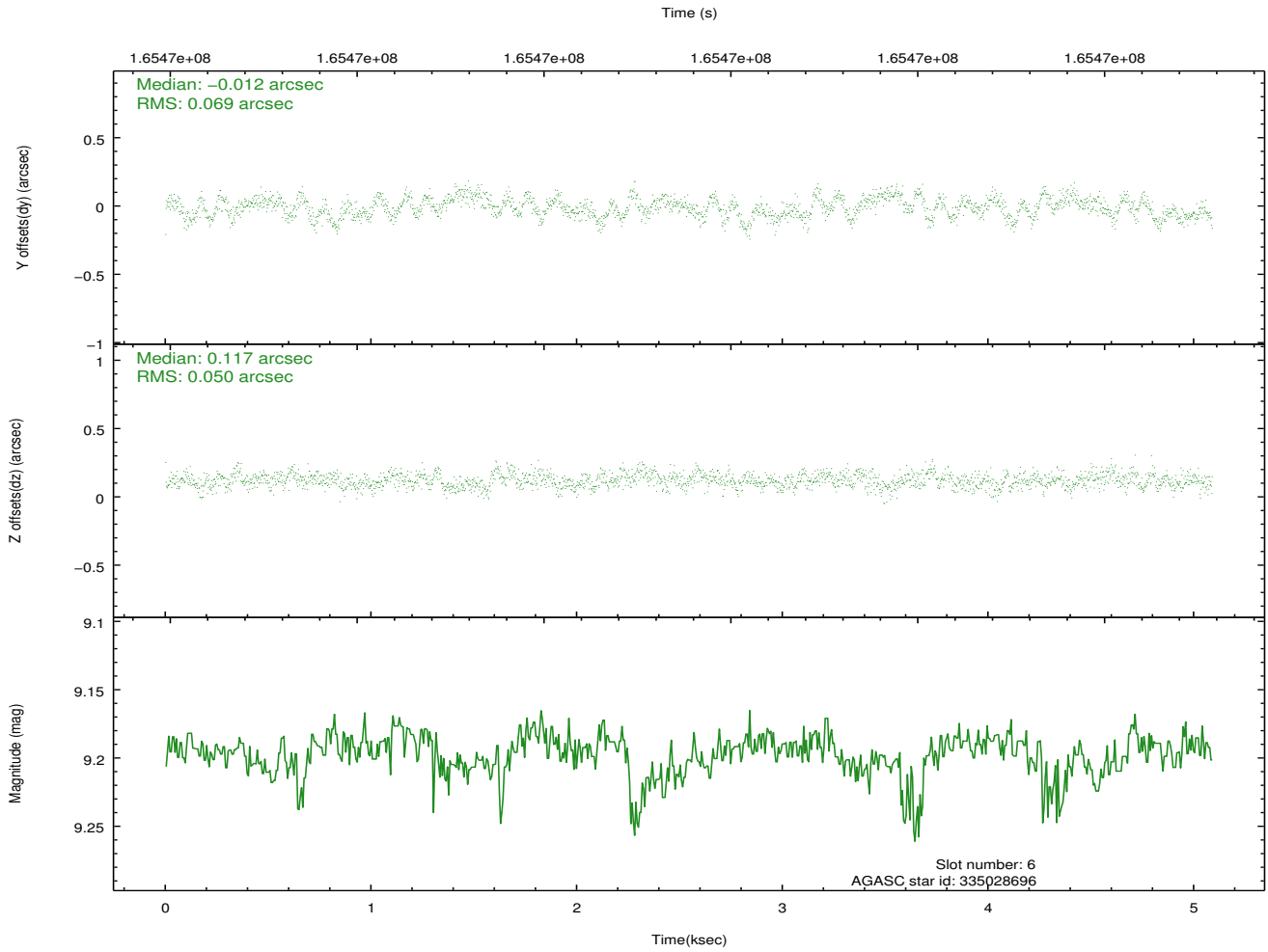
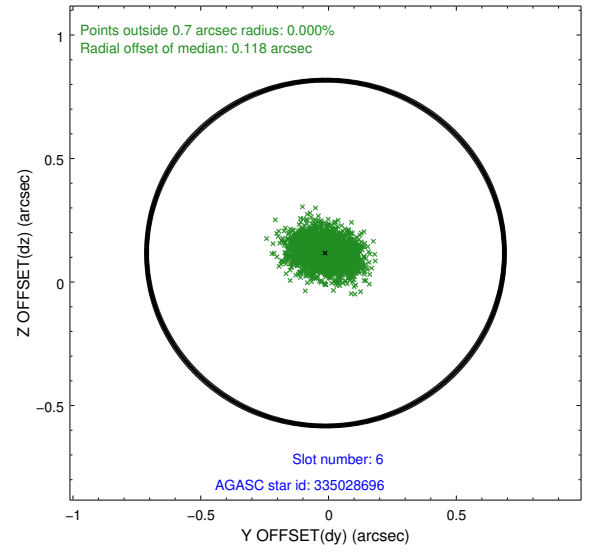
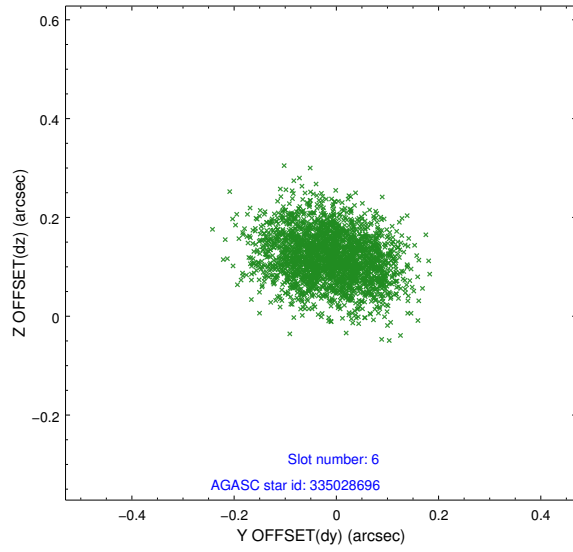
2.4.2 Slot 4



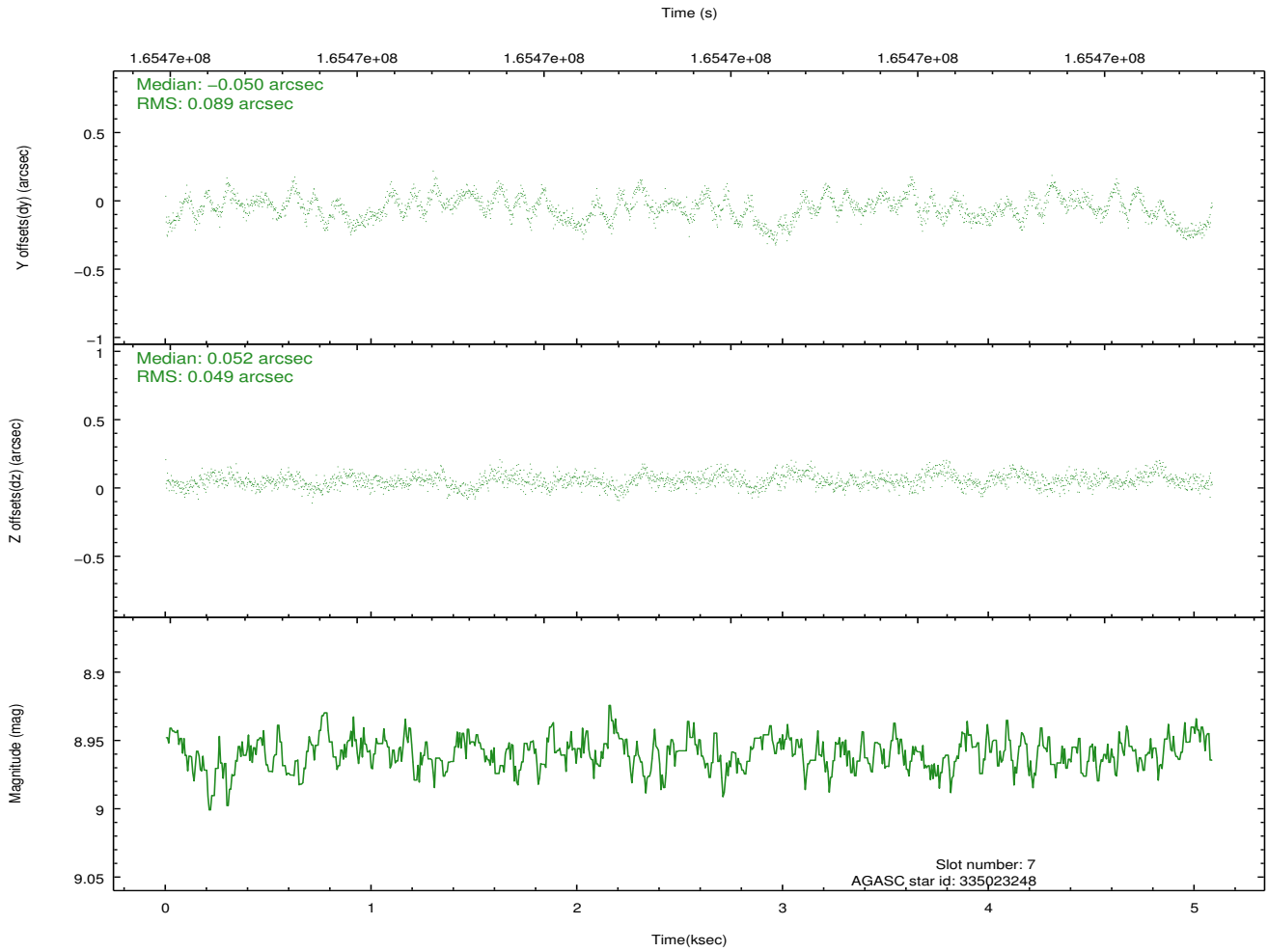
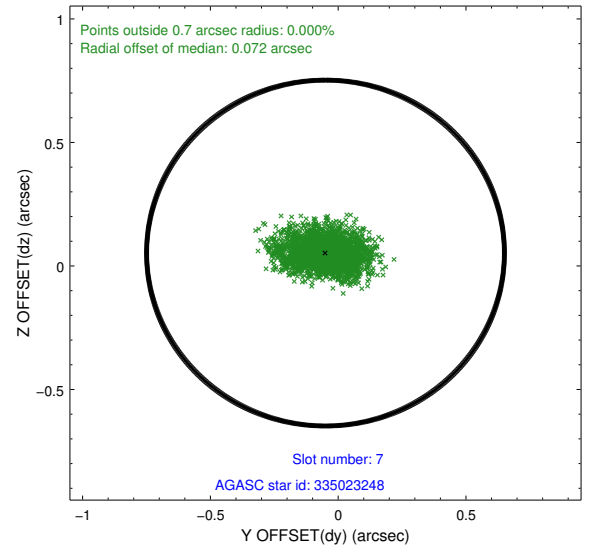
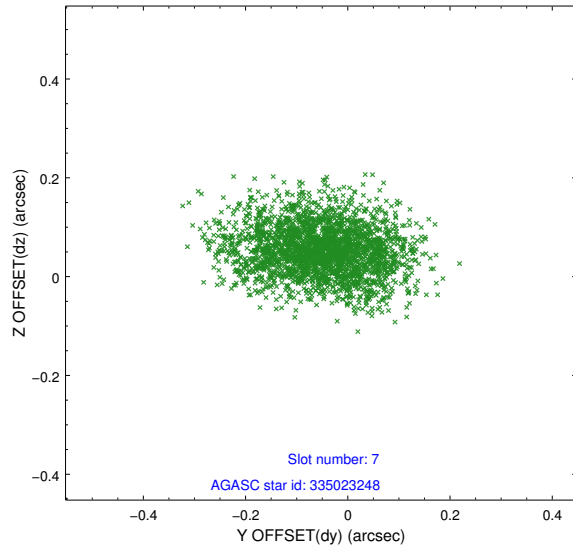
2.4.3 Slot 5



2.4.4 Slot 6

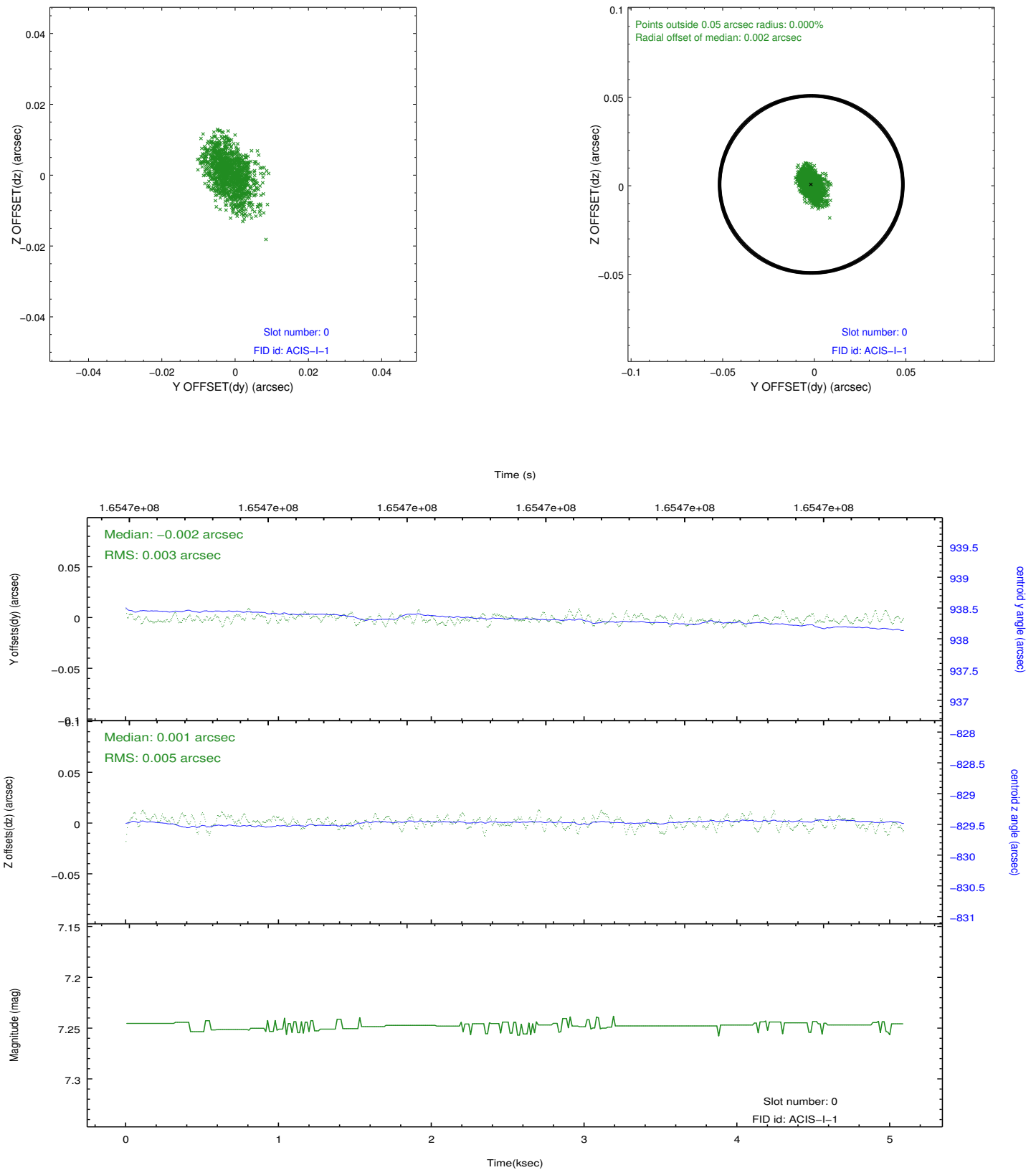


2.4.5 Slot 7

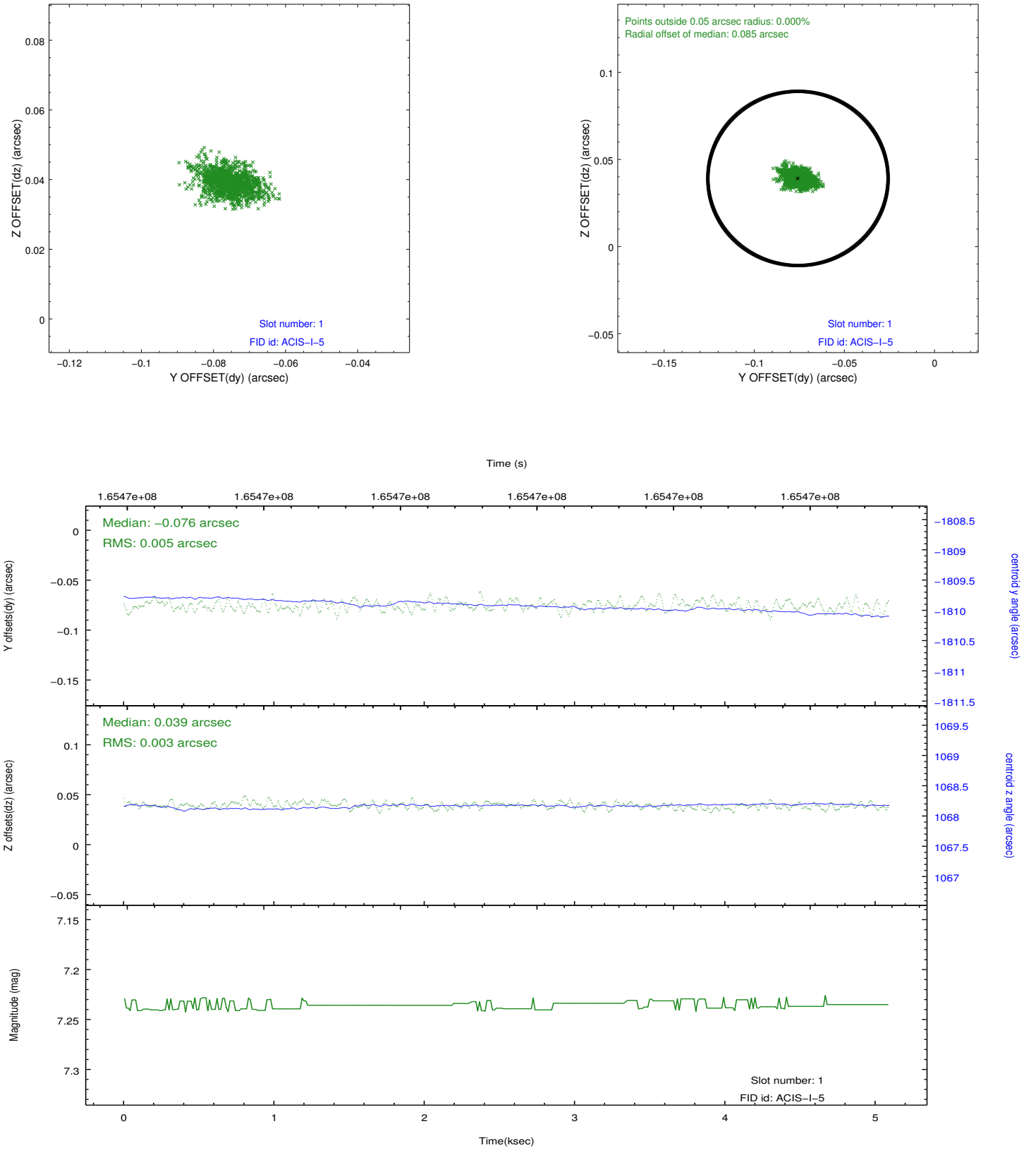


2.5 FID Slots

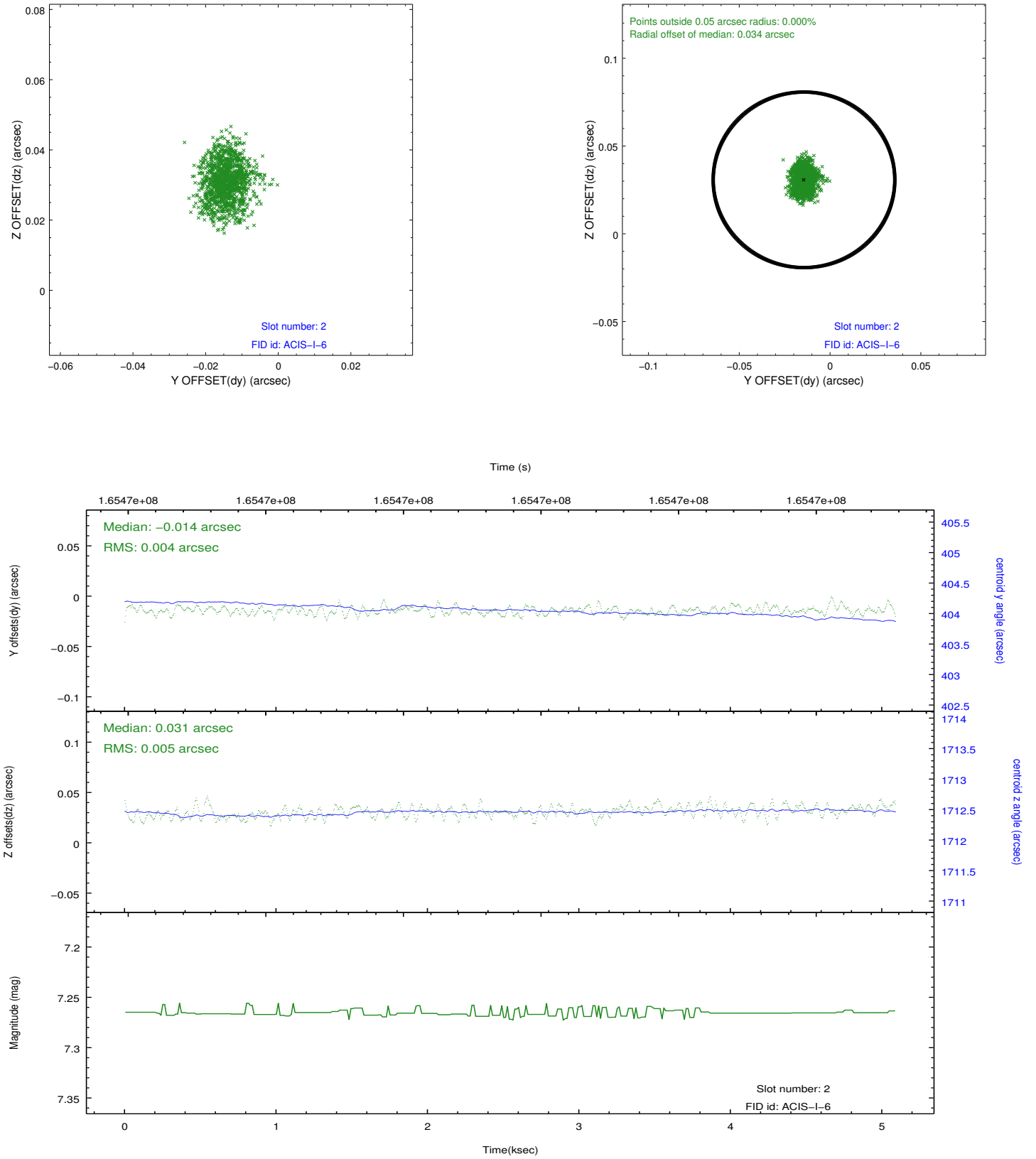
2.5.1 Slot 0



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) | 2012.11.09 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.674 |

A.2 Comments