

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7003 - L2 Version 2
Chandra X-Ray Center

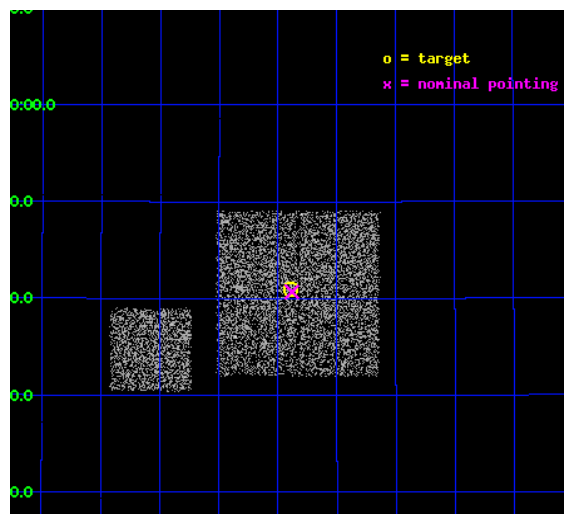
L2 Processing Date : Apr 7 2012

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1 Front

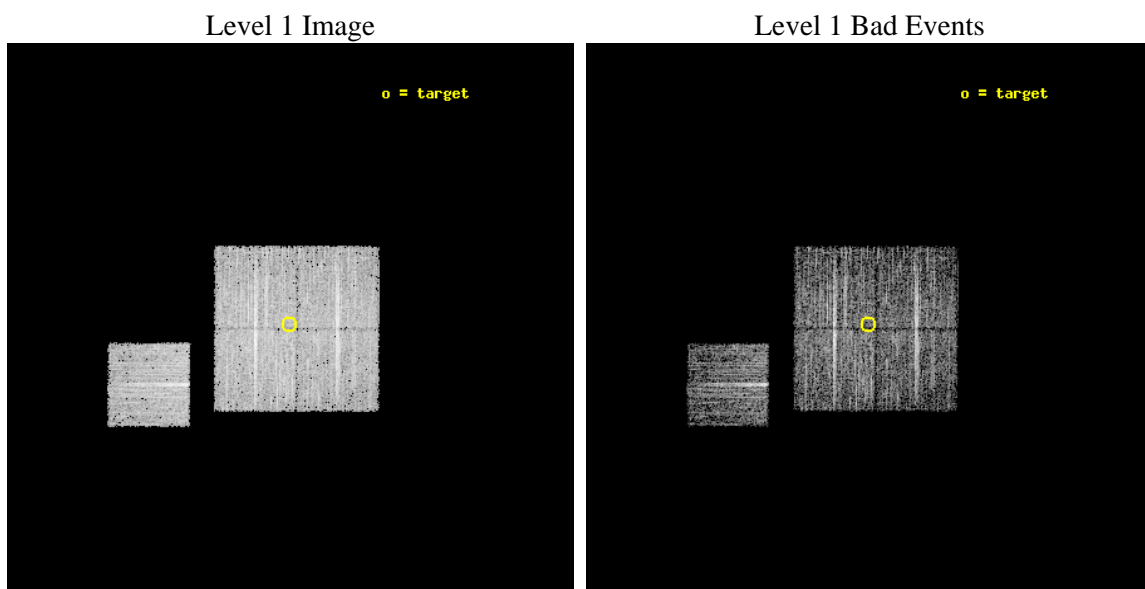
| | | |
|----------|--------------------------------------------------------------|---------------------------------------------|
| seq_num | 900419 | Sequence number |
| obs_id | 7003 | Observation id |
| title | Chandra Large Scale Survey of the NOAO Bootes Deep Field (A) | Propo |
| observer | Dr Stephen Murray | Principal investigator |
| object | Bootes2 25 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 219.09759 | Observer's specified target RA [deg] |
| dec_targ | 34.682639 | Observer's specified target Dec [deg] |
| ra_nom | 219.0954053509 | Nominal RA [deg] |
| dec_nom | 34.678278548171 | Nominal Dec [deg] |
| roll_nom | 270.20992686422 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 4476.4000344276 | Sum of GTIs [s] |
| livetime | 4417.9125725001 | Livetime [s] |
| ontime0 | 4476.4000344276 | Sum of GTIs [s] |
| ontime1 | 4476.4000344276 | Sum of GTIs [s] |
| ontime2 | 4476.4000344276 | Sum of GTIs [s] |
| ontime3 | 4476.4000344276 | Sum of GTIs [s] |
| ontime6 | 4473.25904423 | Sum of GTIs [s] |
| l2events | 12472 | Number of level 2 events |



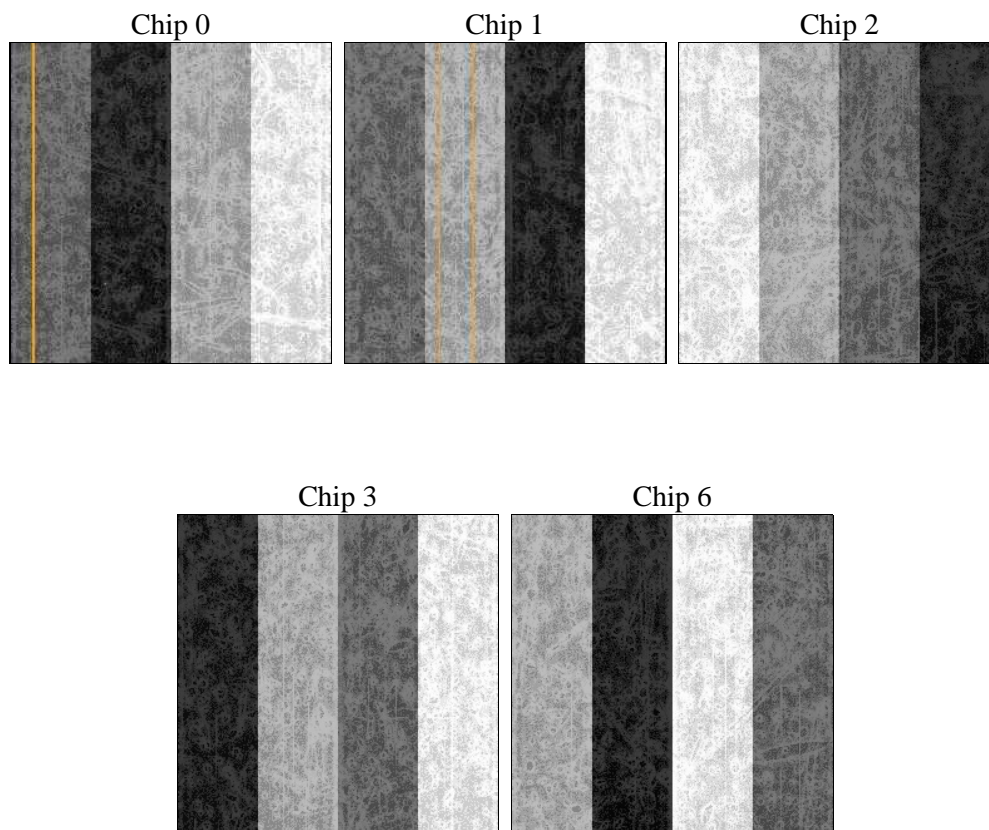
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-----------------------------------------|
| obi_num | 0 | Obi number | sched_exp_time | 4700.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3.1 | Processing system revision | ontime | 4476.4000344276 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 4476.4000344276 | Sum of GTIs [s] |
| date | 2012-04-07T09:05:32 | Date and time of file creation | ontime1 | 4476.4000344276 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 4476.4000344276 | Sum of GTIs [s] |
| | | | ontime3 | 4476.4000344276 | Sum of GTIs [s] |
| | | | ontime6 | 4473.25904423 | Sum of GTIs [s] |
| | | | l1events | 162678 | Number of level 1 events |

2.1.4 Events

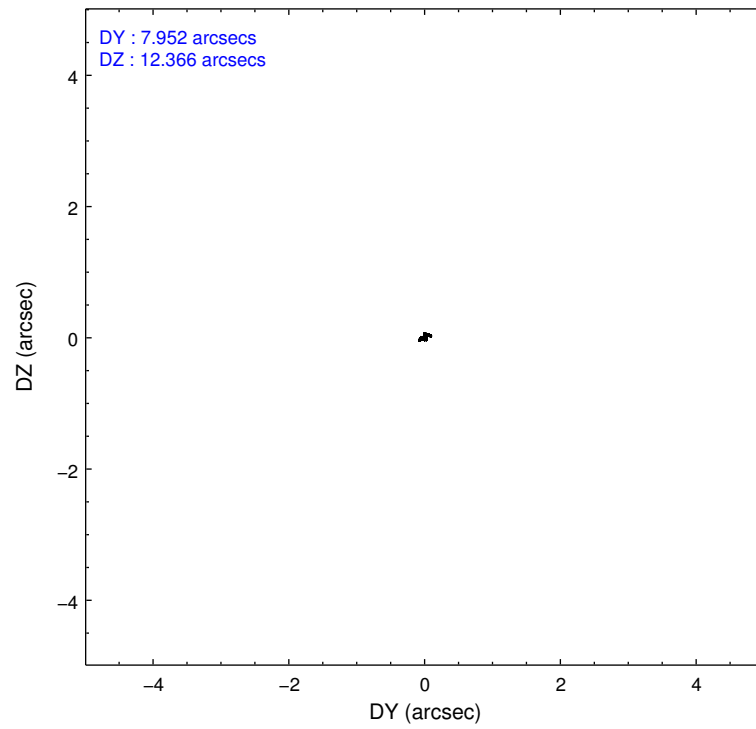
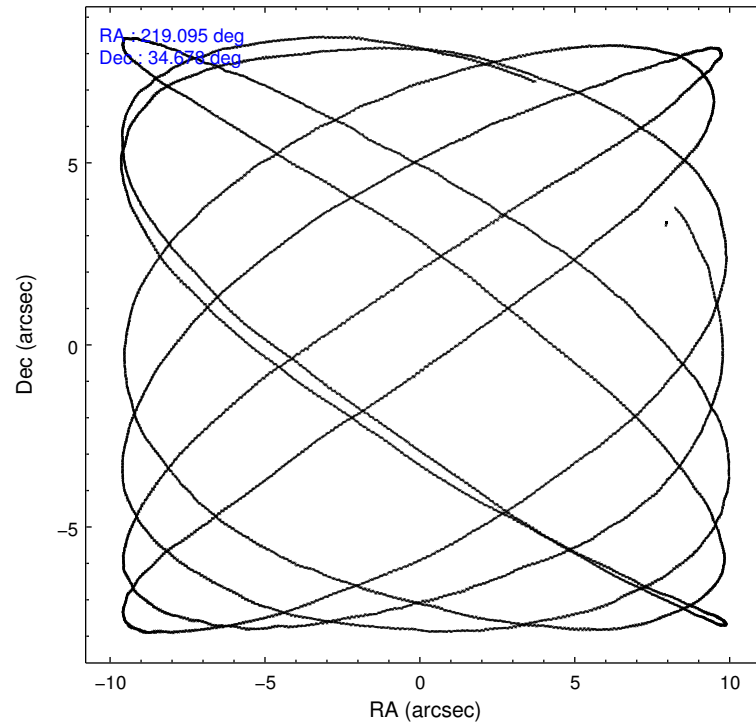
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 29600 | 30630 | 36488 | 33471 | 32489 |
| rejected events | 26589 | 27283 | 33356 | 30622 | 29420 |
| rejected % | 89% | 89% | 91% | 91% | 90% |

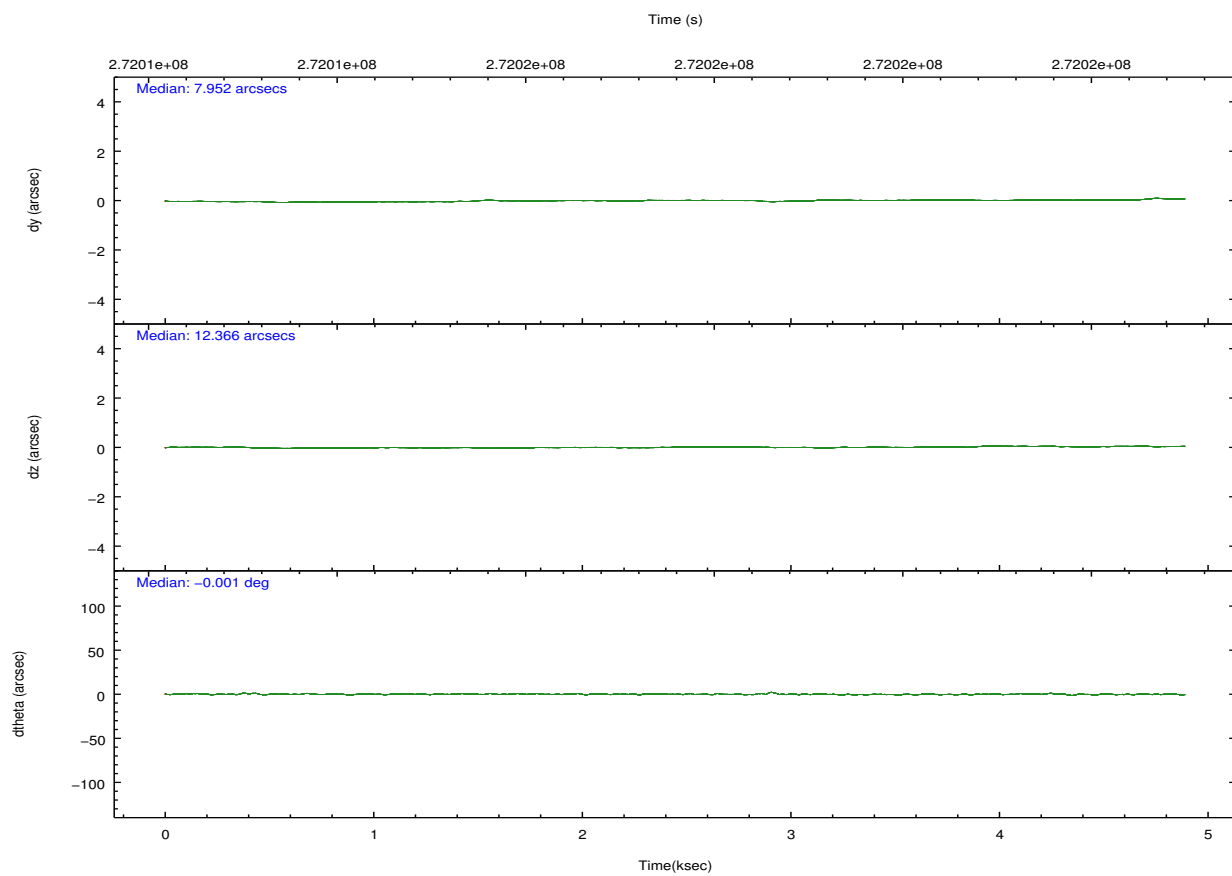
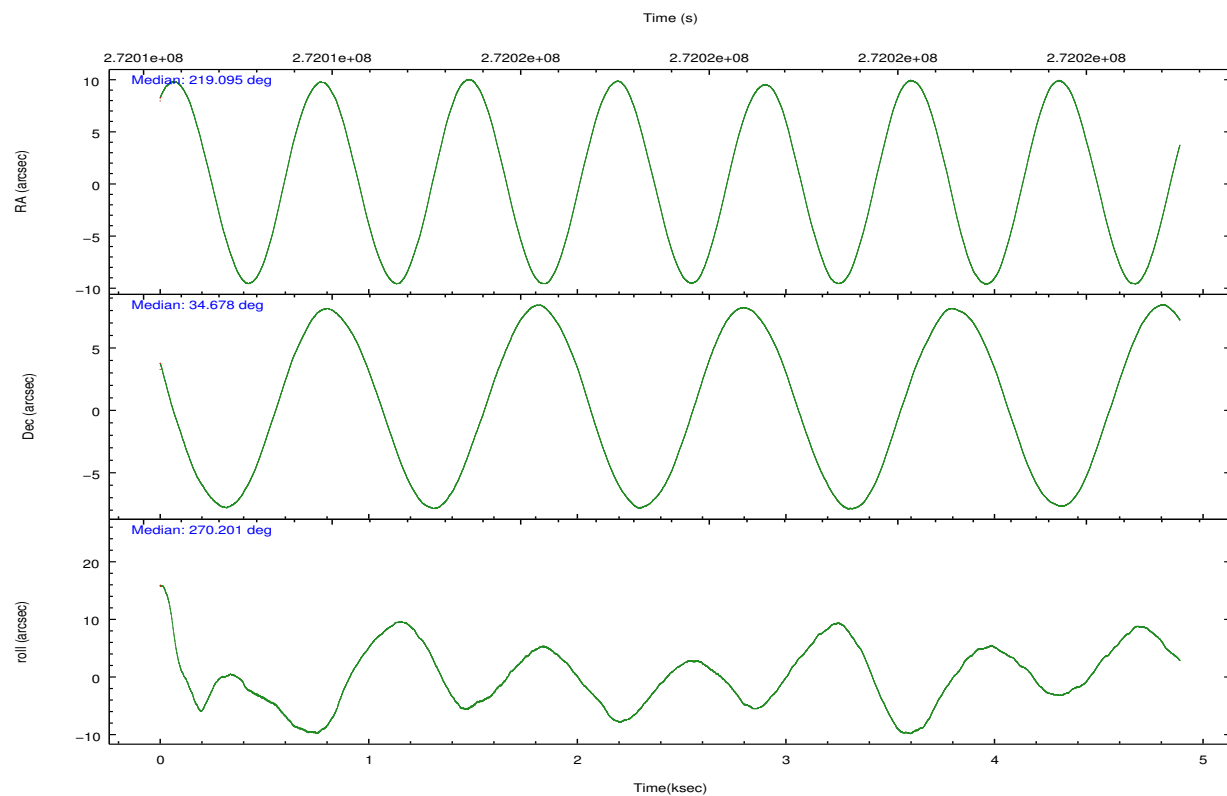
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 1098 | 1173 | 1212 | 980 | 1097 |
| | 3% | 3% | 3% | 2% | 3% |
| grade 1 events | 20 | 15 | 15 | 15 | 14 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 740 | 731 | 736 | 624 | 686 |
| | 2% | 2% | 2% | 1% | 2% |
| grade 3 events | 349 | 352 | 317 | 335 | 318 |
| | 1% | 1% | 0% | 1% | 0% |
| grade 4 events | 316 | 392 | 341 | 312 | 359 |
| | 1% | 1% | 0% | 0% | 1% |
| grade 5 events | 902 | 1048 | 887 | 1092 | 1143 |
| | 3% | 3% | 2% | 3% | 3% |
| grade 6 events | 509 | 700 | 528 | 600 | 614 |
| | 1% | 2% | 1% | 1% | 1% |
| grade 7 events | 25666 | 26219 | 32452 | 29513 | 28258 |
| | 86% | 85% | 88% | 88% | 86% |

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 | 219.078550 | 219.0954053508954 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 34.701925 | 34.67827854817055 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 270.010843 | 270.2099268642193 | [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) | 272013533.184000 | 272013097.42749 | | | |
| Observation start date | 2006-08-15T07:17:48 | 2006-08-15T07:11:37 | | | |
| [s] Observation end time (MET) | 272018233.184000 | 272018367.97773 | | | |
| Observation end date | 2006-08-15T08:36:08 | 2006-08-15T08:39:27 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



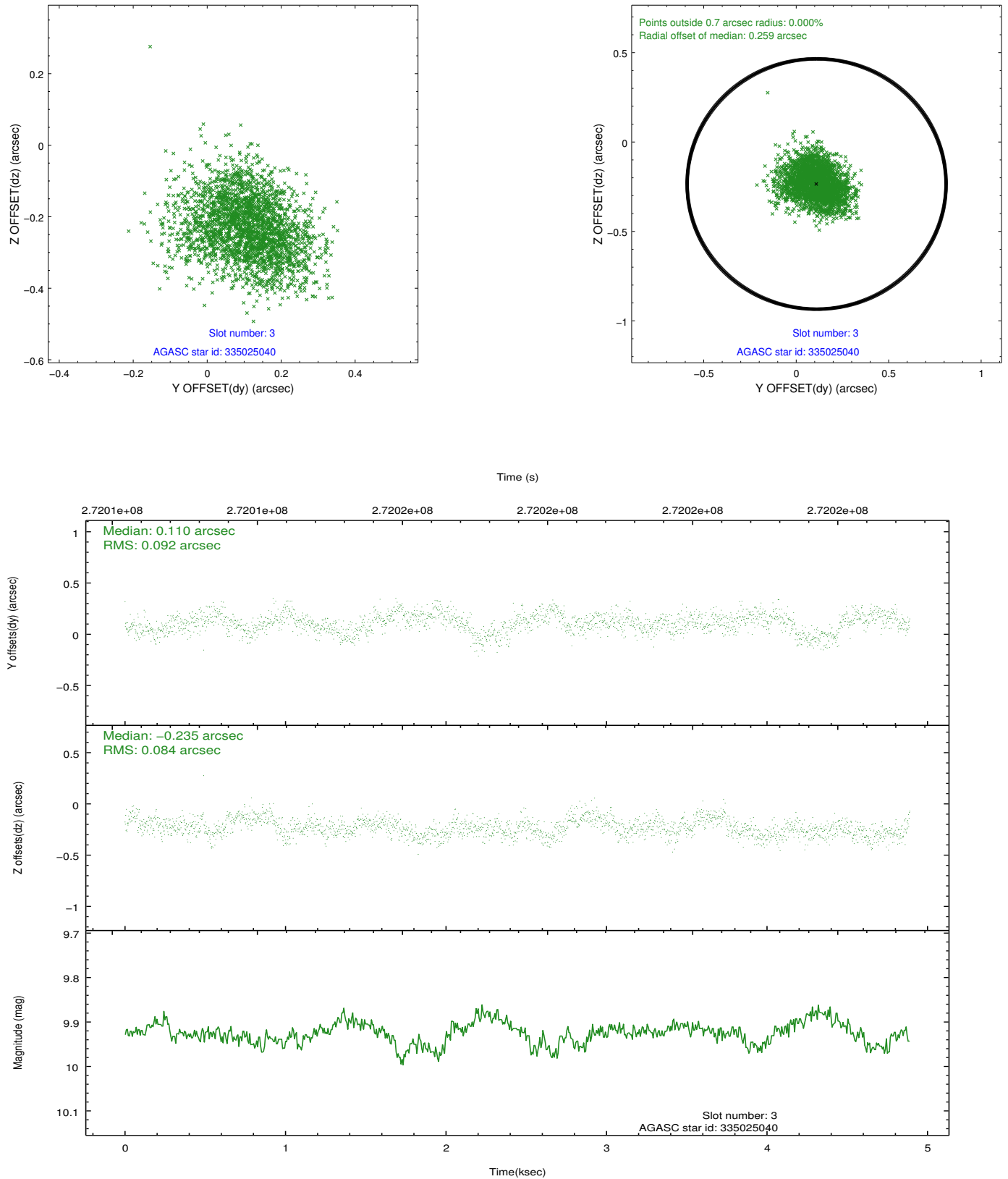


Slot Statistics

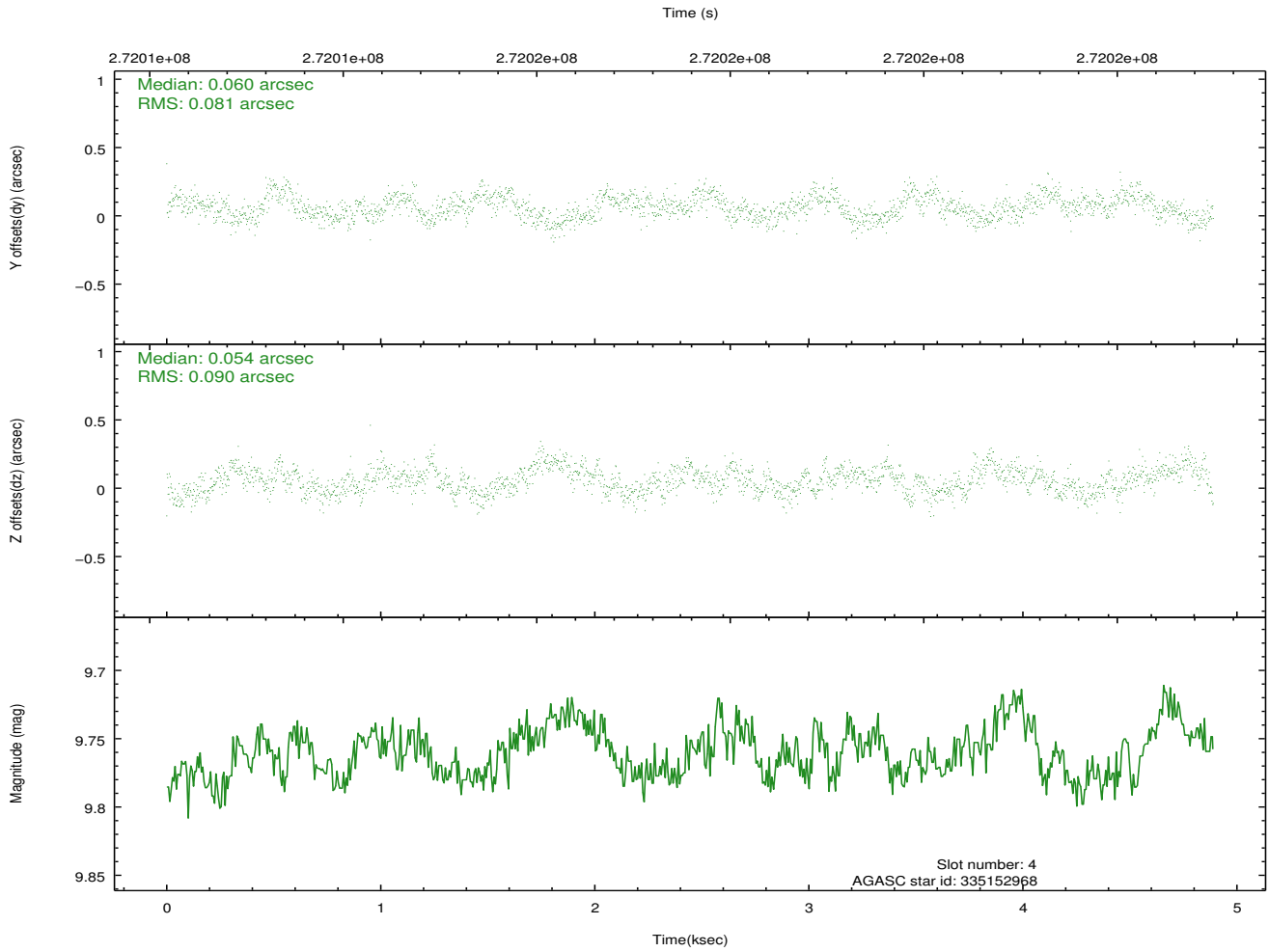
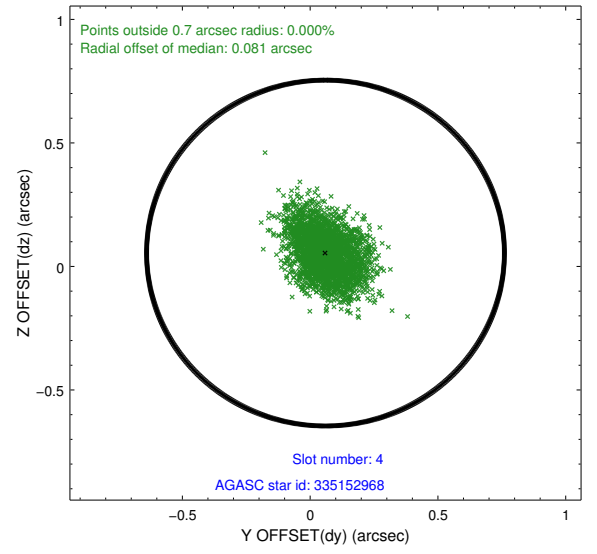
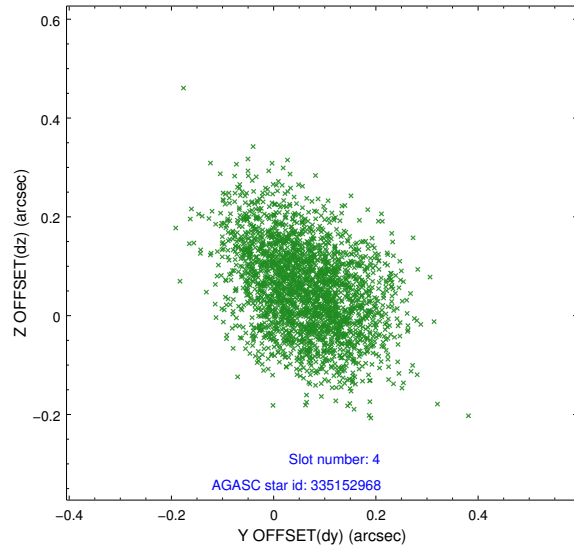
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 1193 | 0.057 | -0.036 | 0.006 | 0.010 | 0.000000 | 0.000000 | 931.76 | -835.95 |
| 1 | FID | ACIS-I-5 | 7.23 | 1193 | -0.187 | 0.065 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1815.88 | 1061.05 |
| 2 | FID | ACIS-I-6 | 7.24 | 1193 | 0.039 | 0.042 | 0.006 | 0.012 | 0.000000 | 0.000000 | 395.96 | 1706.92 |
| 3 | GUIDE | 335025040 | 9.92 | 2380 | 0.110 | -0.235 | 0.134 | 0.215 | 218.601670 | 34.305240 | 1425.09 | -1418.28 |
| 4 | GUIDE | 335152968 | 9.76 | 2383 | 0.060 | 0.054 | 0.129 | 0.207 | 219.446087 | 34.867883 | -598.16 | 1085.36 |
| 5 | GUIDE | 335153936 | 10.20 | 2381 | -0.131 | 0.037 | 0.217 | 0.356 | 219.671318 | 34.457728 | 873.69 | 1759.17 |
| 6 | GUIDE | 335414336 | 8.96 | 2374 | -0.026 | 0.086 | 0.083 | 0.142 | 218.979022 | 35.090910 | -1399.86 | -292.13 |
| 7 | GUIDE | 335155824 | 8.93 | 2385 | 0.004 | 0.058 | 0.133 | 0.201 | 219.689900 | 34.035435 | 2393.69 | 1823.96 |

2.4 Star Slots

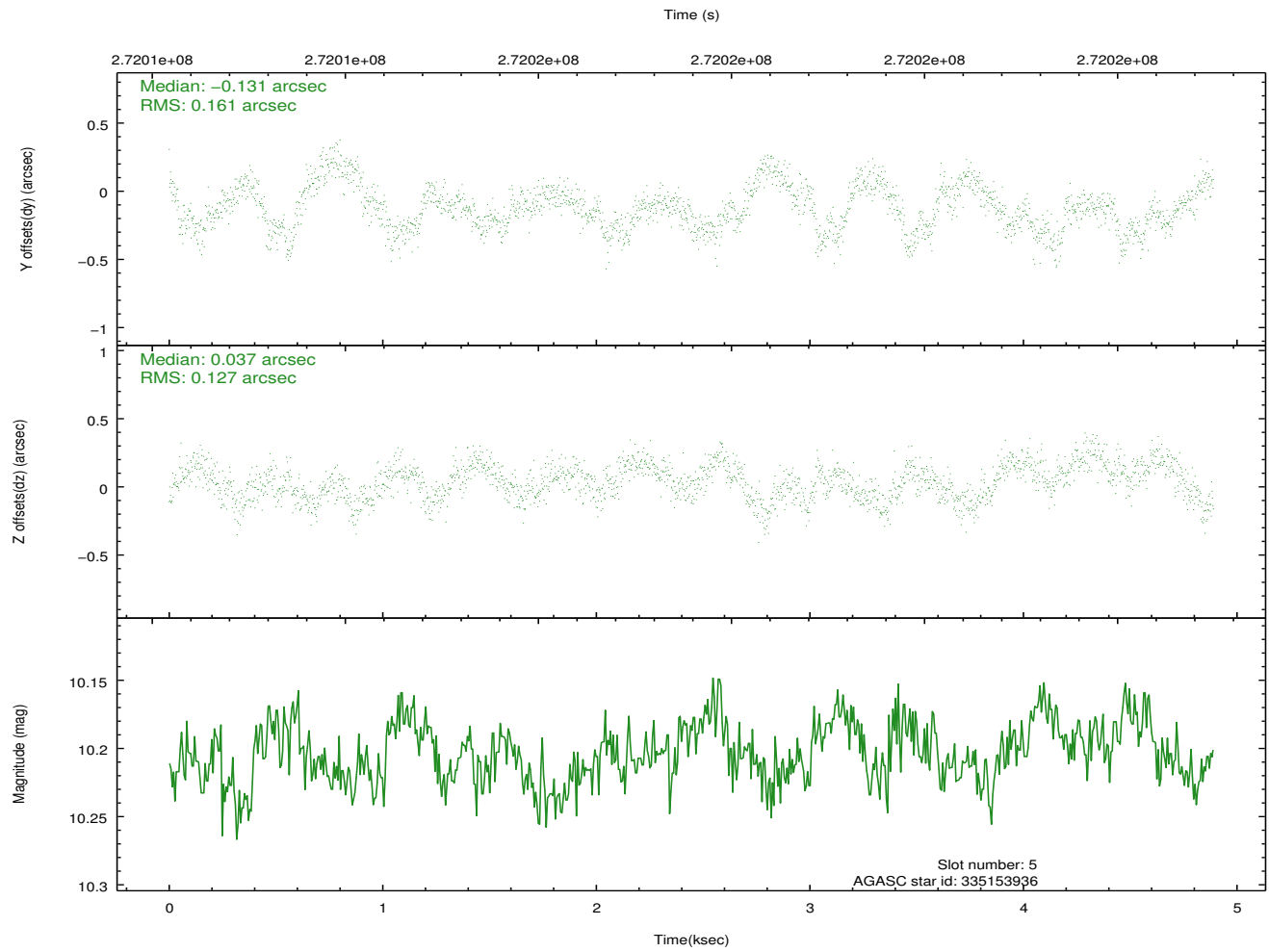
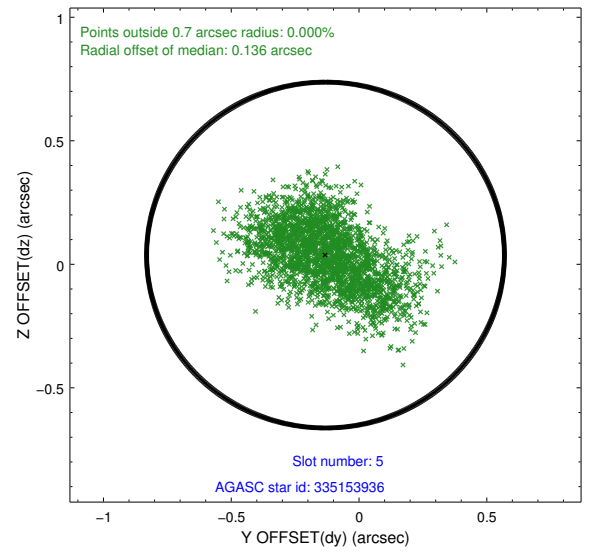
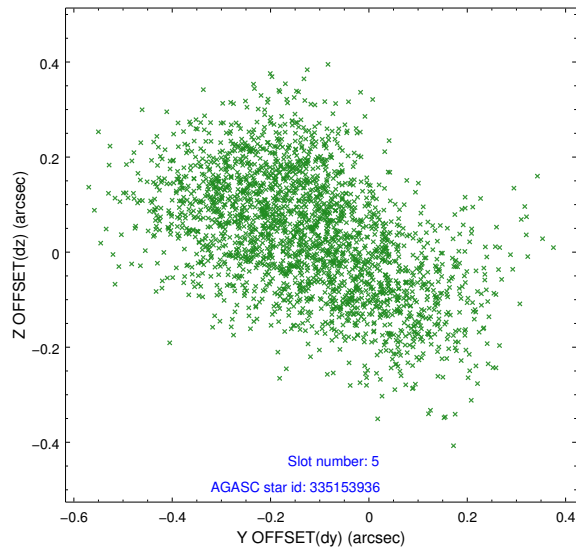
2.4.1 Slot 3



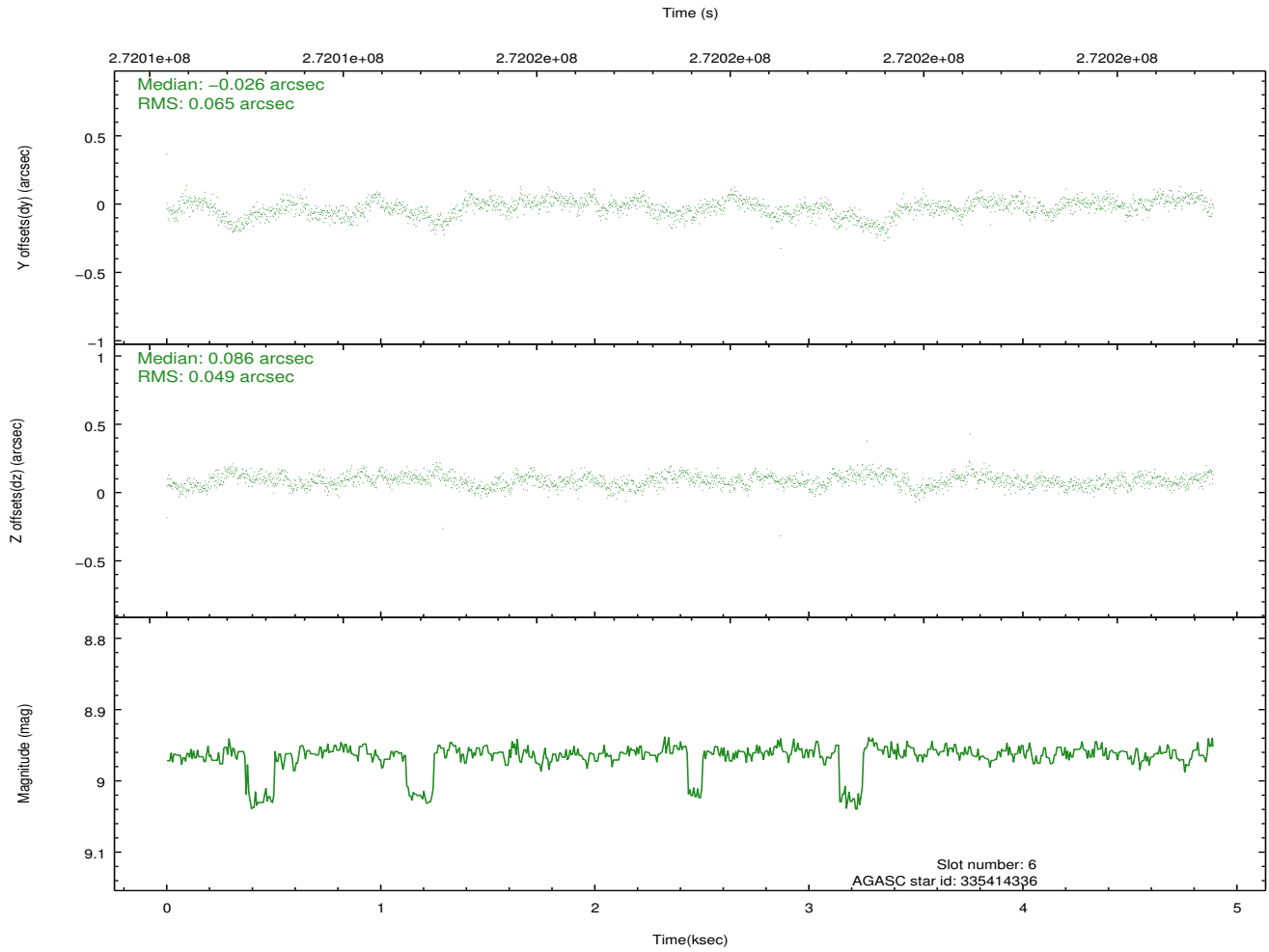
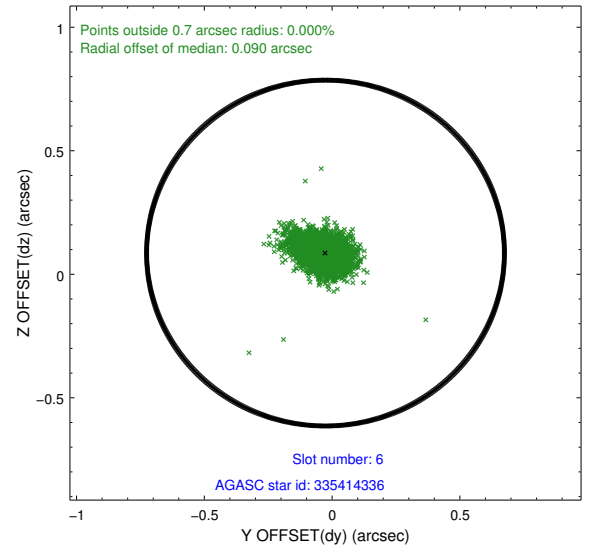
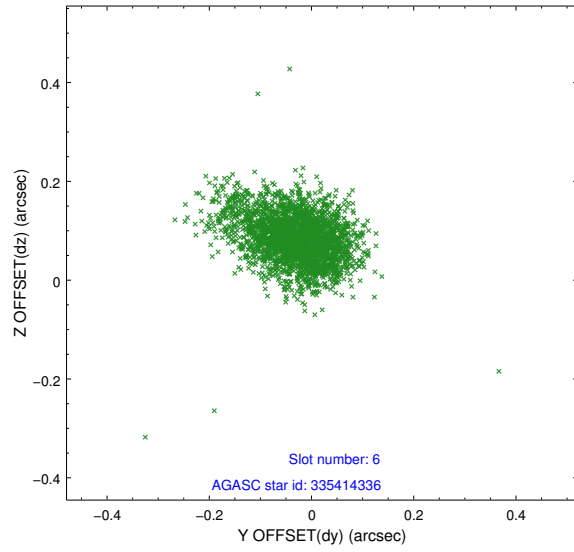
2.4.2 Slot 4



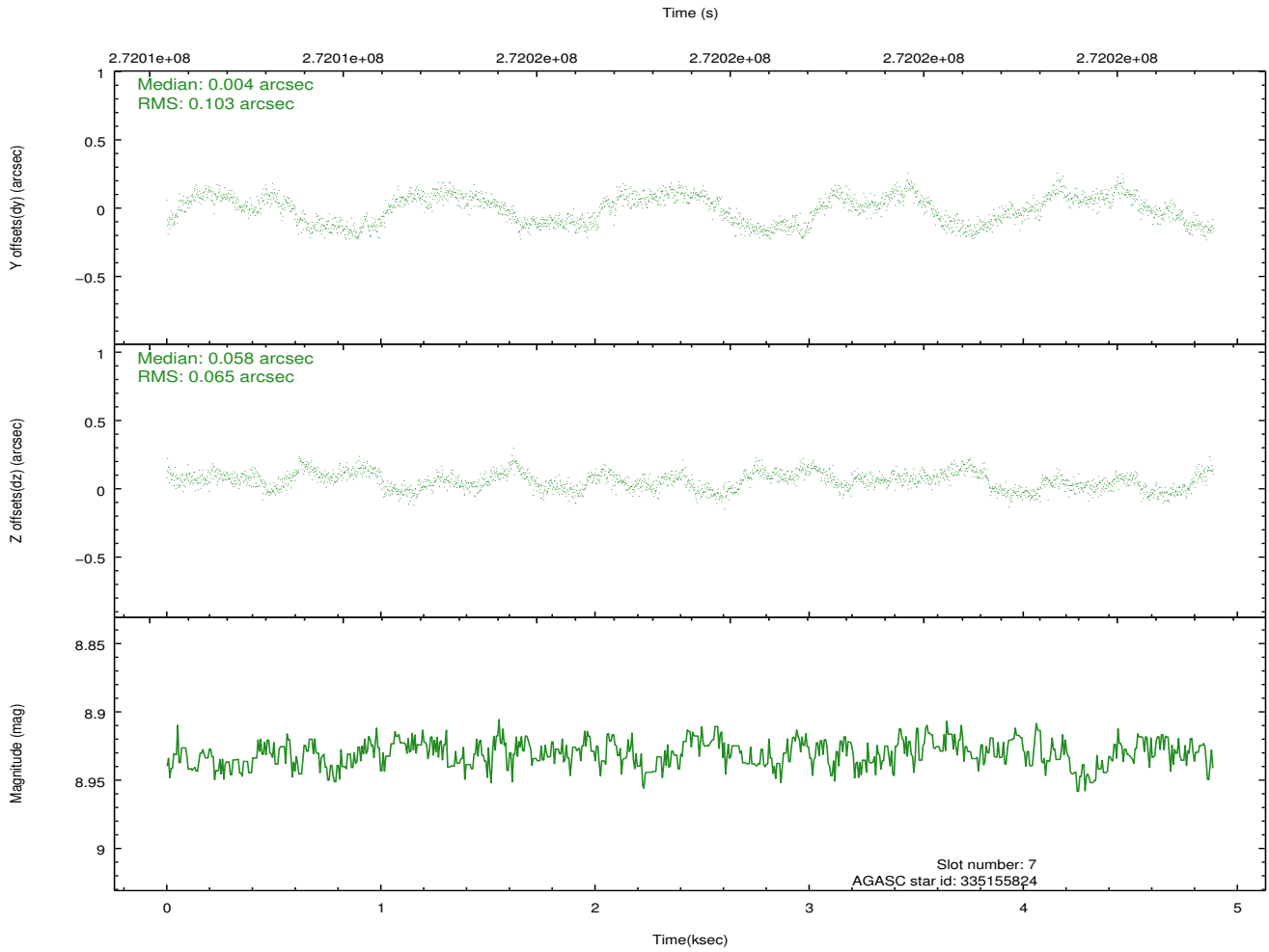
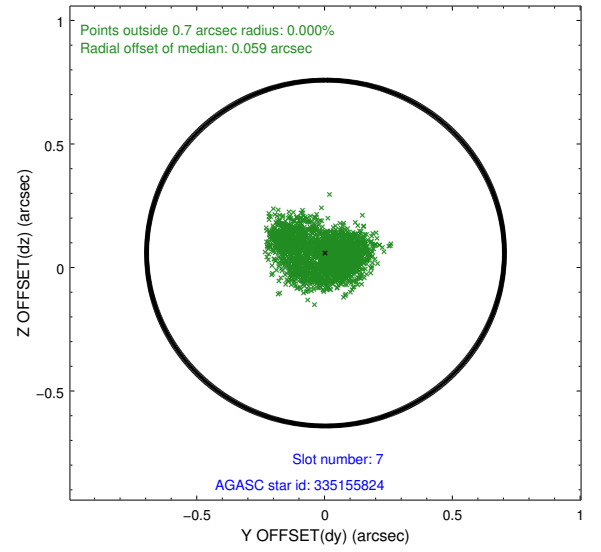
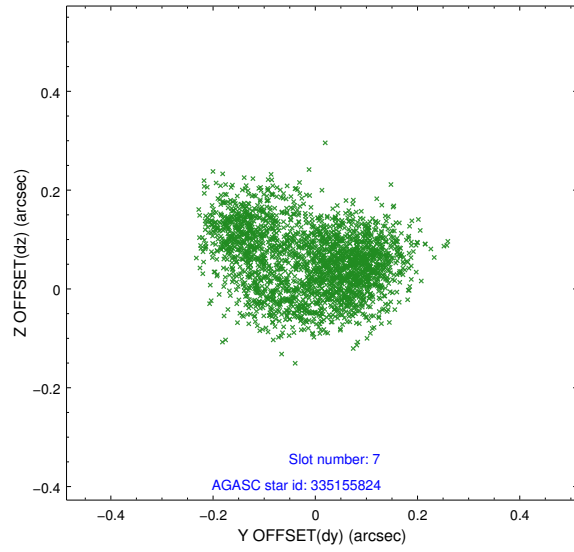
2.4.3 Slot 5



2.4.4 Slot 6

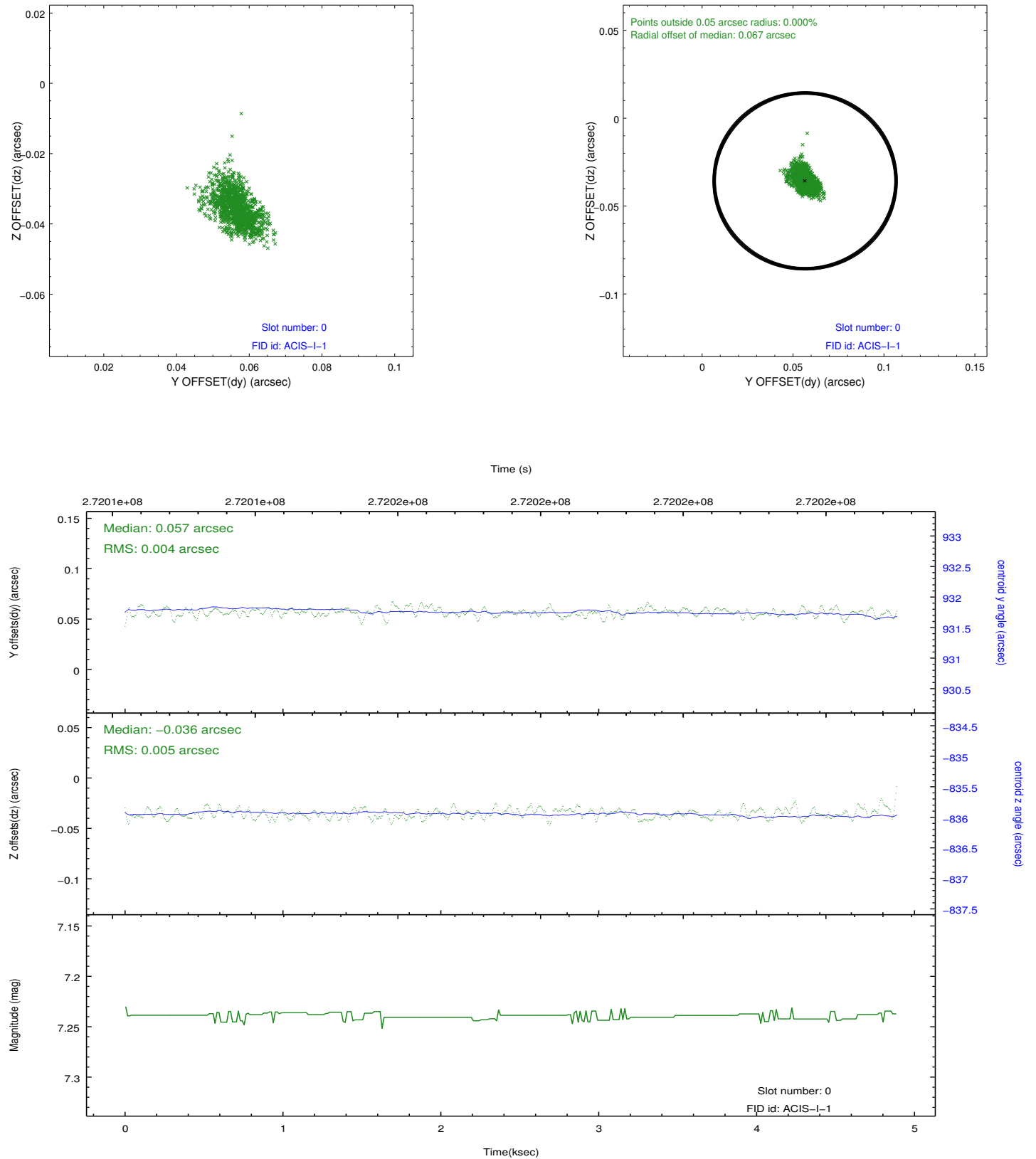


2.4.5 Slot 7

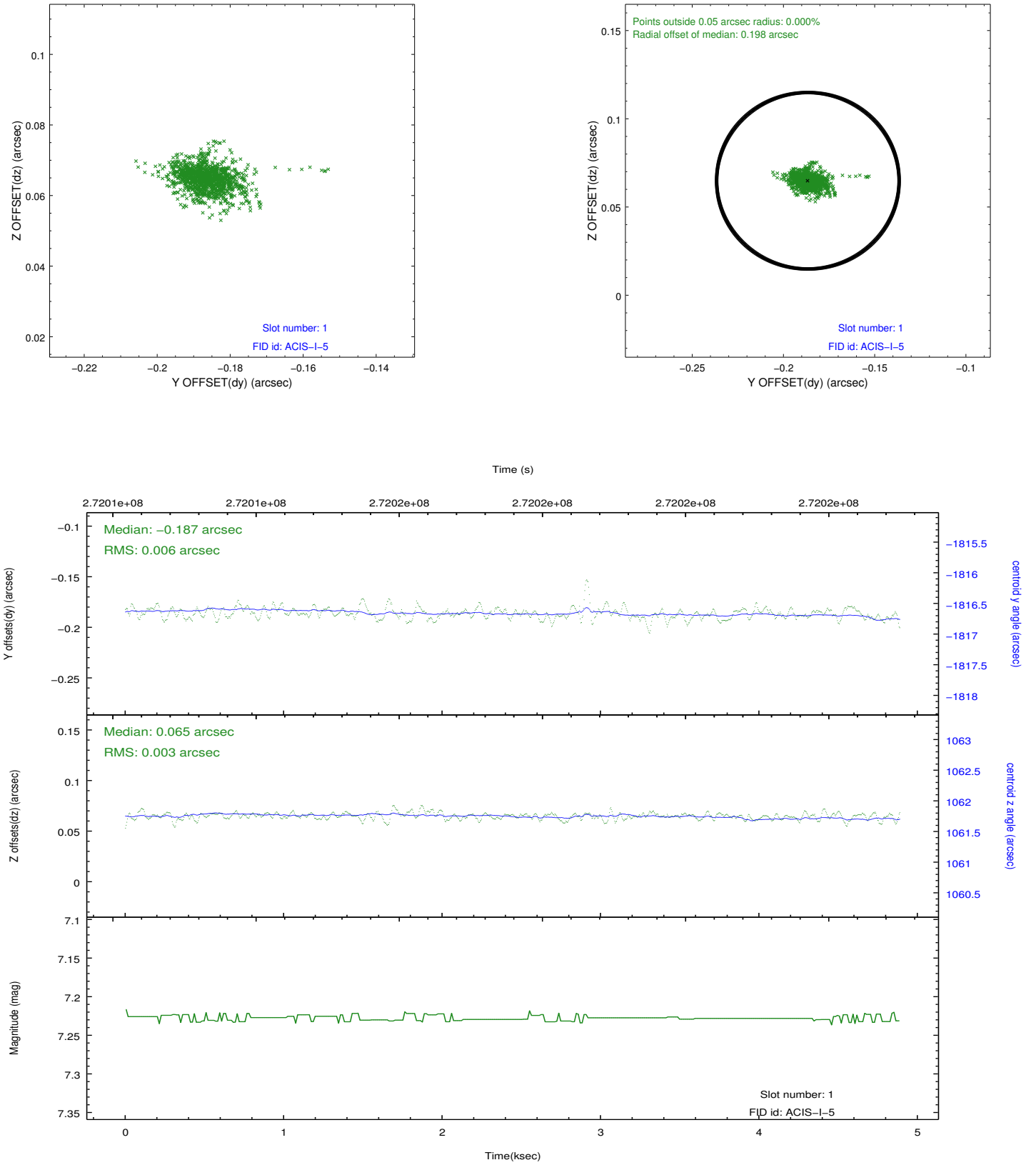


2.5 FID Slots

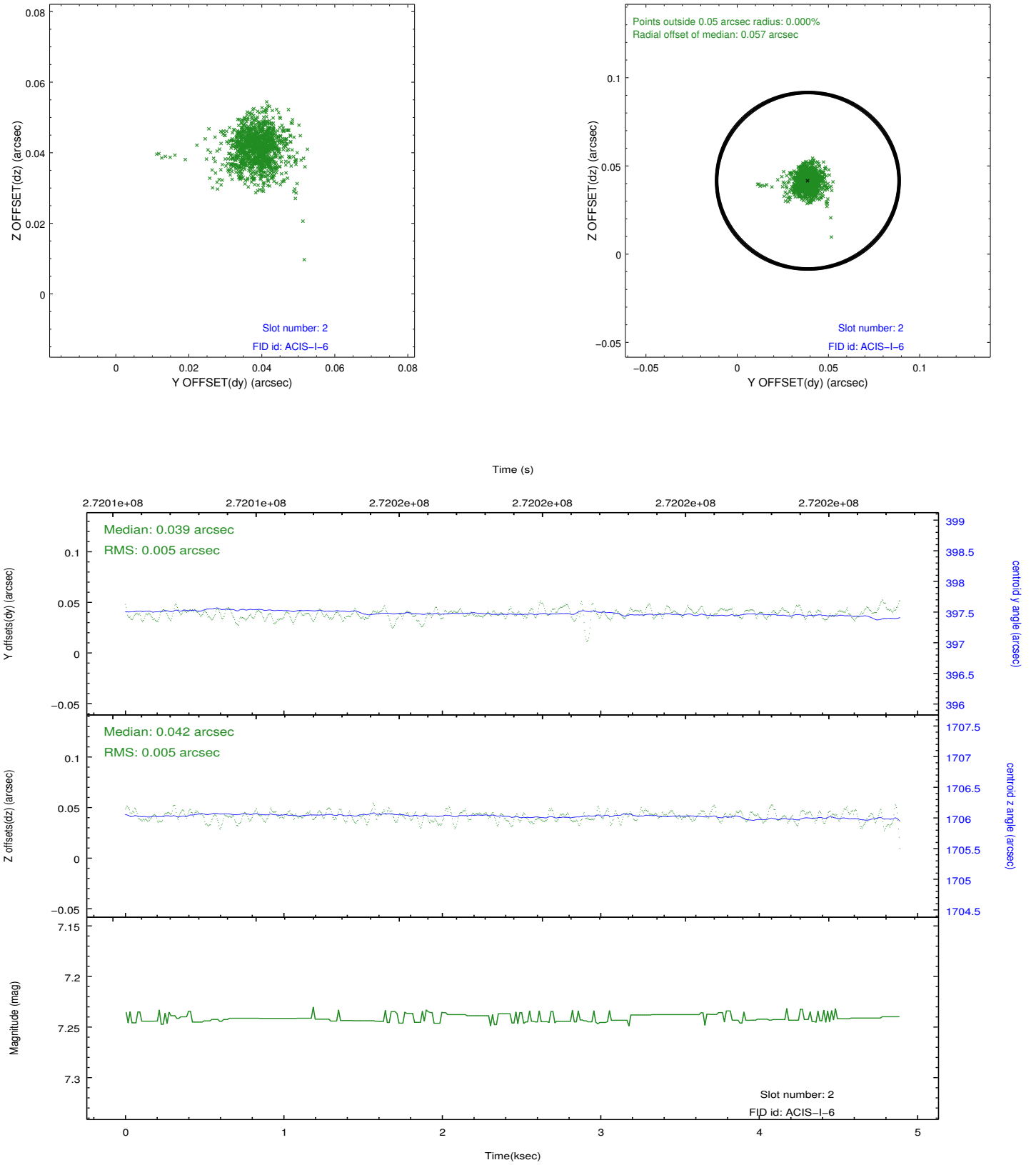
2.5.1 Slot 0



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) | 2012.04.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.47640003 |

A.2 Comments