

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4249 - L2 Version 3
Chandra X-Ray Center

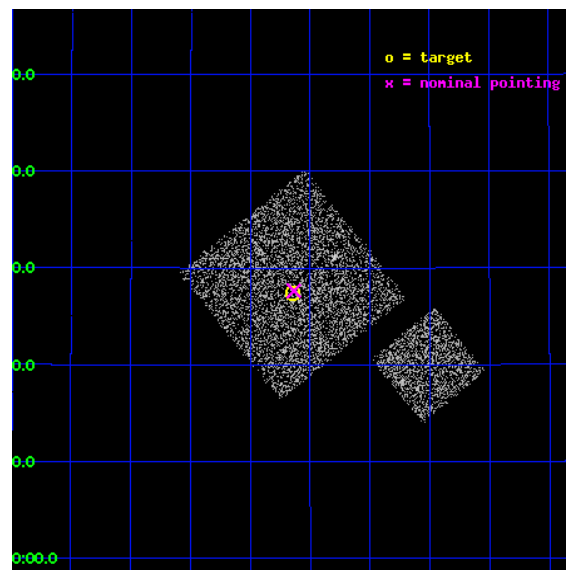
L2 Processing Date : Oct 26 2012

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1 Front

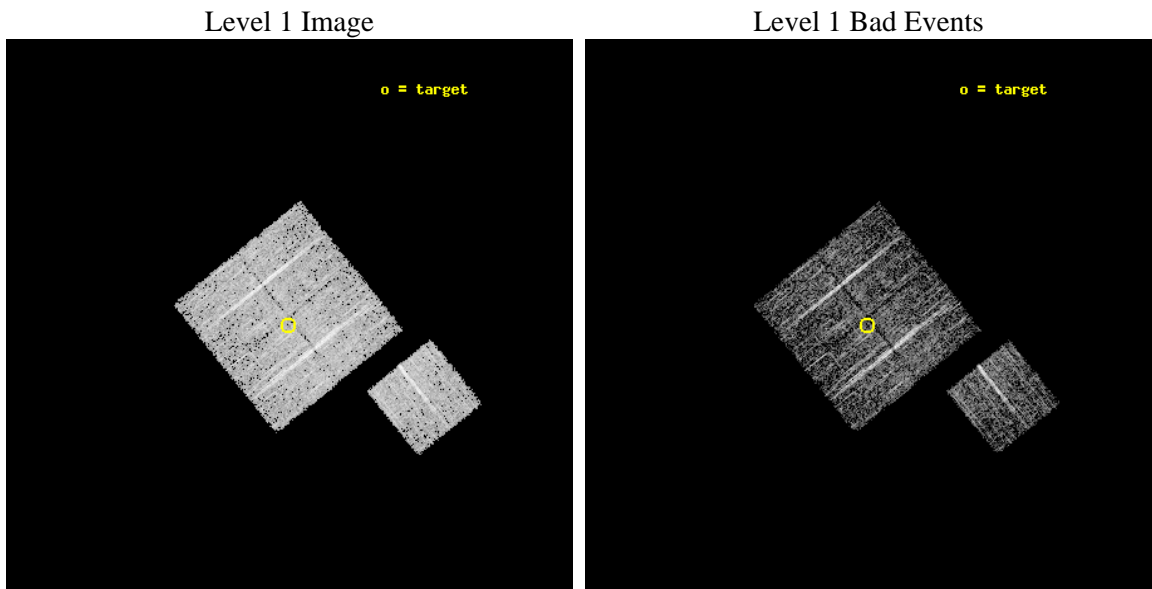
| | | |
|----------|--|---|
| seq_num | 900292 | Sequence number |
| obs_id | 4249 | Observation id |
| title | A CHANDRA WIDE-FIELD SURVEY TO MAP THE COSMIC WEB AND INVESTIGATE THE EVOLUTION OF NUCLEAR ACCRETION | Proposal title |
| observer | Dr. Christine Jones | Principal investigator |
| object | SD18 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 219.536665 | Observer's specified target RA [deg] |
| dec_targ | 33.456918 | Observer's specified target Dec [deg] |
| ra_nom | 219.53401152429 | Nominal RA [deg] |
| dec_nom | 33.460934640612 | Nominal Dec [deg] |
| roll_nom | 141.01012386003 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4674.7999909818 | Sum of GTIs [s] |
| livetime | 4613.720287562 | Livetime [s] |
| ontime0 | 4674.7999909818 | Sum of GTIs [s] |
| ontime1 | 4674.7999909818 | Sum of GTIs [s] |
| ontime2 | 4674.7999909818 | Sum of GTIs [s] |
| ontime3 | 4674.7999909818 | Sum of GTIs [s] |
| ontime6 | 4674.7999909818 | Sum of GTIs [s] |
| l2events | 9433 | Number of level 2 events |



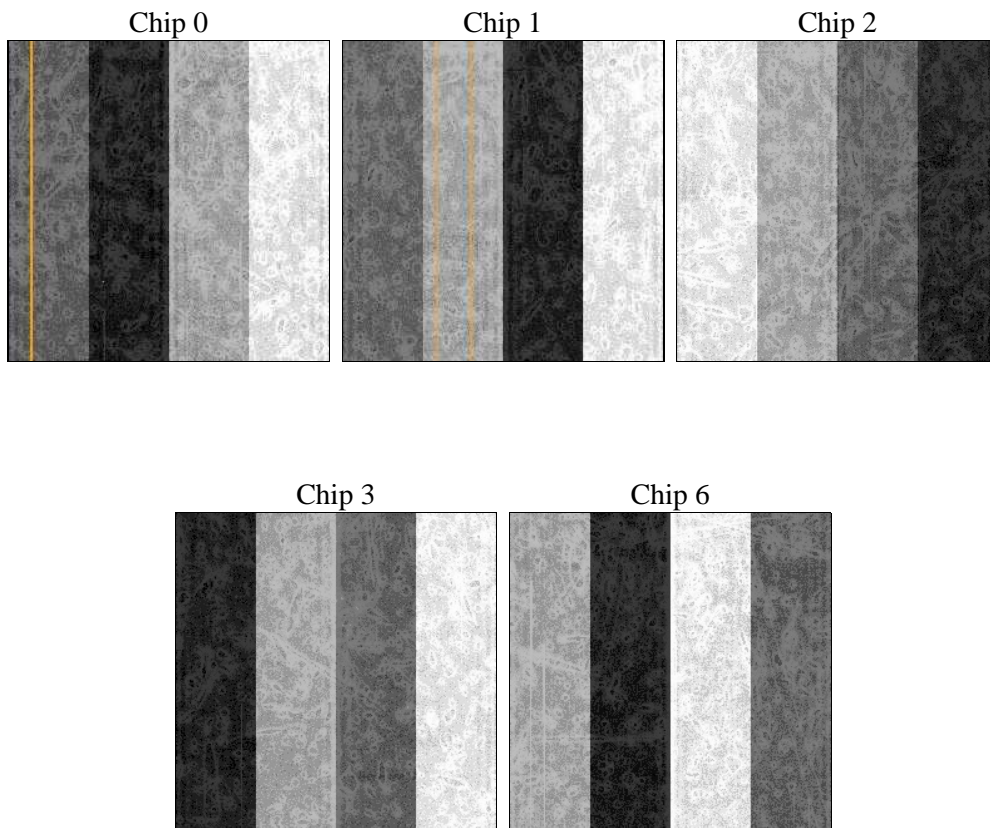
2 OBI

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 | 4674.7999909818 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 4674.7999909818 | Sum of GTIs [s] |
| date | 2012-10-26T00:15:21 | Date and time of file creation | ontime1 | 4674.7999909818 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 4674.7999909818 | Sum of GTIs [s] |
| | | | ontime3 | 4674.7999909818 | Sum of GTIs [s] |
| | | | ontime6 | 4674.7999909818 | Sum of GTIs [s] |
| | | | l1events | 116943 | Number of level 1 events |

2.1.4 Events

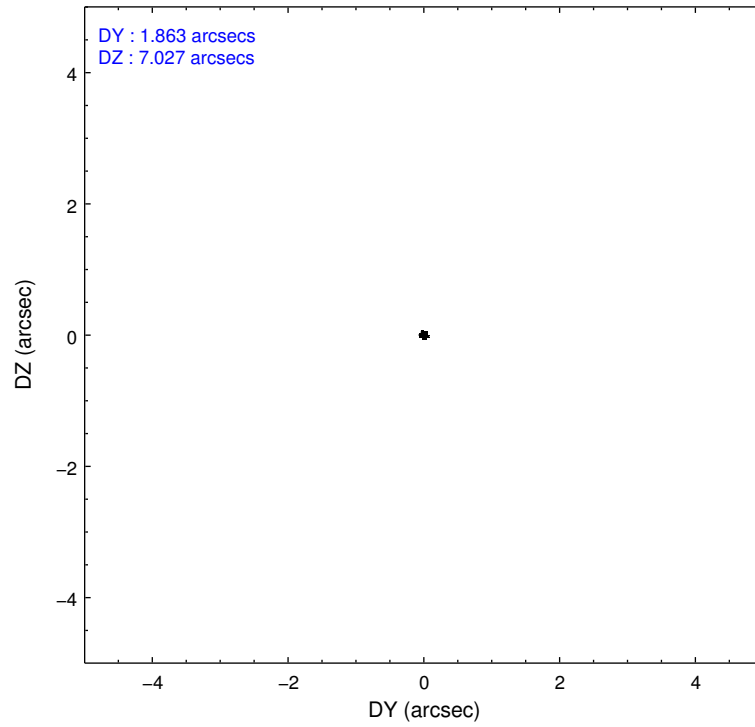
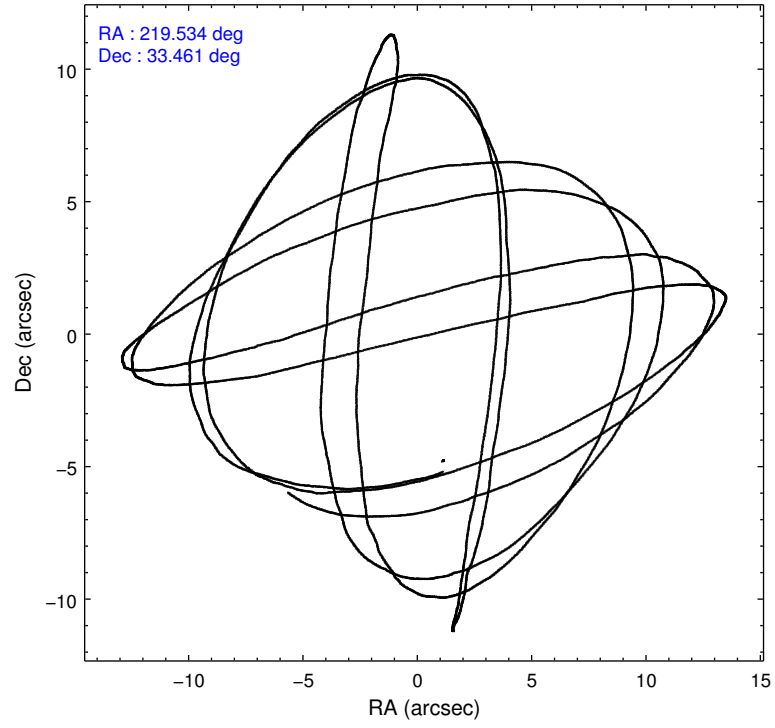
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 21898 | 22680 | 24019 | 24757 | 23589 |
| rejected events | 19671 | 20274 | 21704 | 22532 | 21146 |
| rejected % | 89% | 89% | 90% | 91% | 89% |

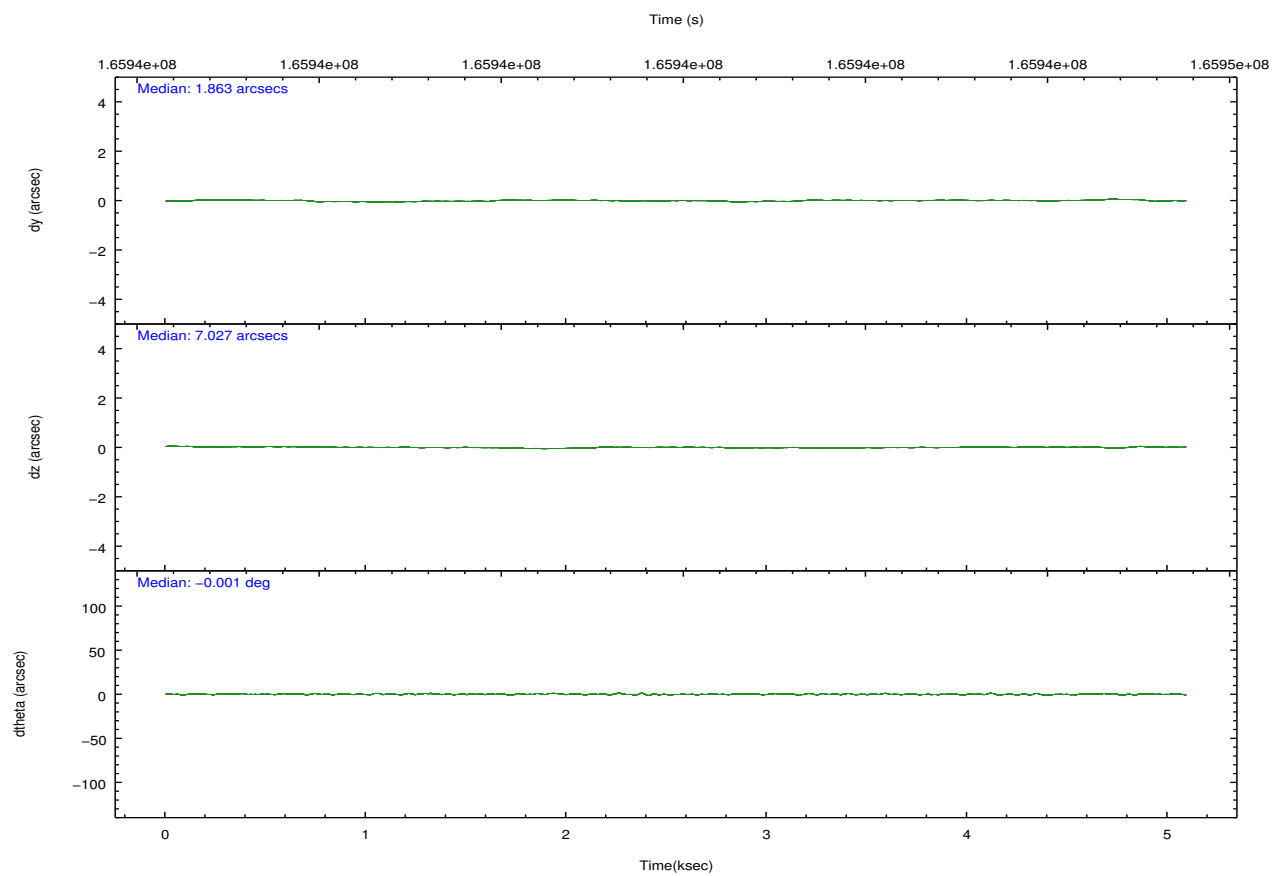
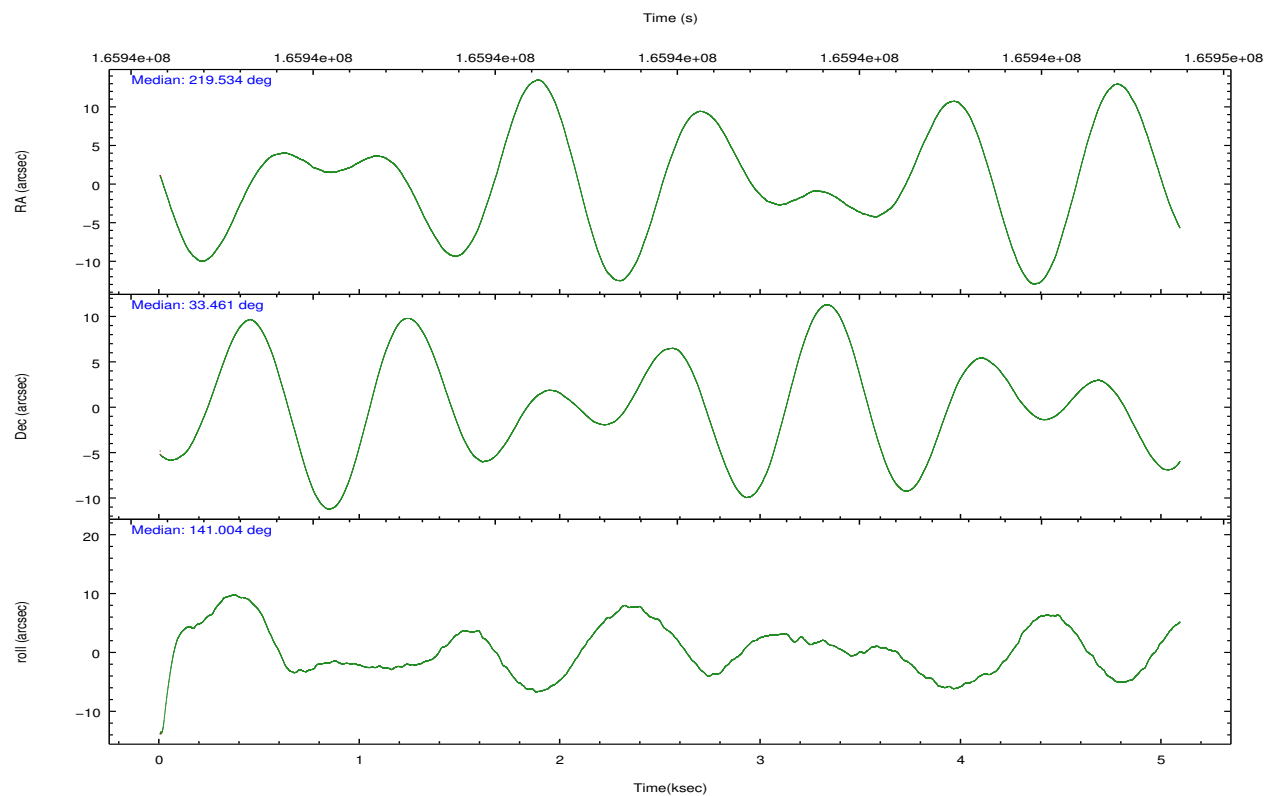
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 822 | 814 | 925 | 813 | 895 |
| | 3% | 3% | 3% | 3% | 3% |
| grade 1 events | 18 | 11 | 13 | 13 | 9 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 529 | 500 | 511 | 454 | 530 |
| | 2% | 2% | 2% | 1% | 2% |
| grade 3 events | 259 | 299 | 246 | 289 | 294 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 226 | 307 | 245 | 261 | 276 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 662 | 724 | 640 | 808 | 725 |
| | 3% | 3% | 2% | 3% | 3% |
| grade 6 events | 392 | 488 | 389 | 408 | 448 |
| | 1% | 2% | 1% | 1% | 1% |
| grade 7 events | 18990 | 19537 | 21050 | 21711 | 20412 |
| | 86% | 86% | 87% | 87% | 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 | 219.566493 | 219.5340115242923 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 33.456841 | 33.46093464061189 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 140.783552 | 141.0101238600333 | [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) | 165940612.184000 | 165940188.16063 | | | |
| Observation start date | 2003-04-05T14:35:48 | 2003-04-05T14:29:48 | | | |
| [s] Observation end time (MET) | 165945512.184000 | 165945645.77336 | | | |
| Observation end date | 2003-04-05T15:57:28 | 2003-04-05T16:00:45 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



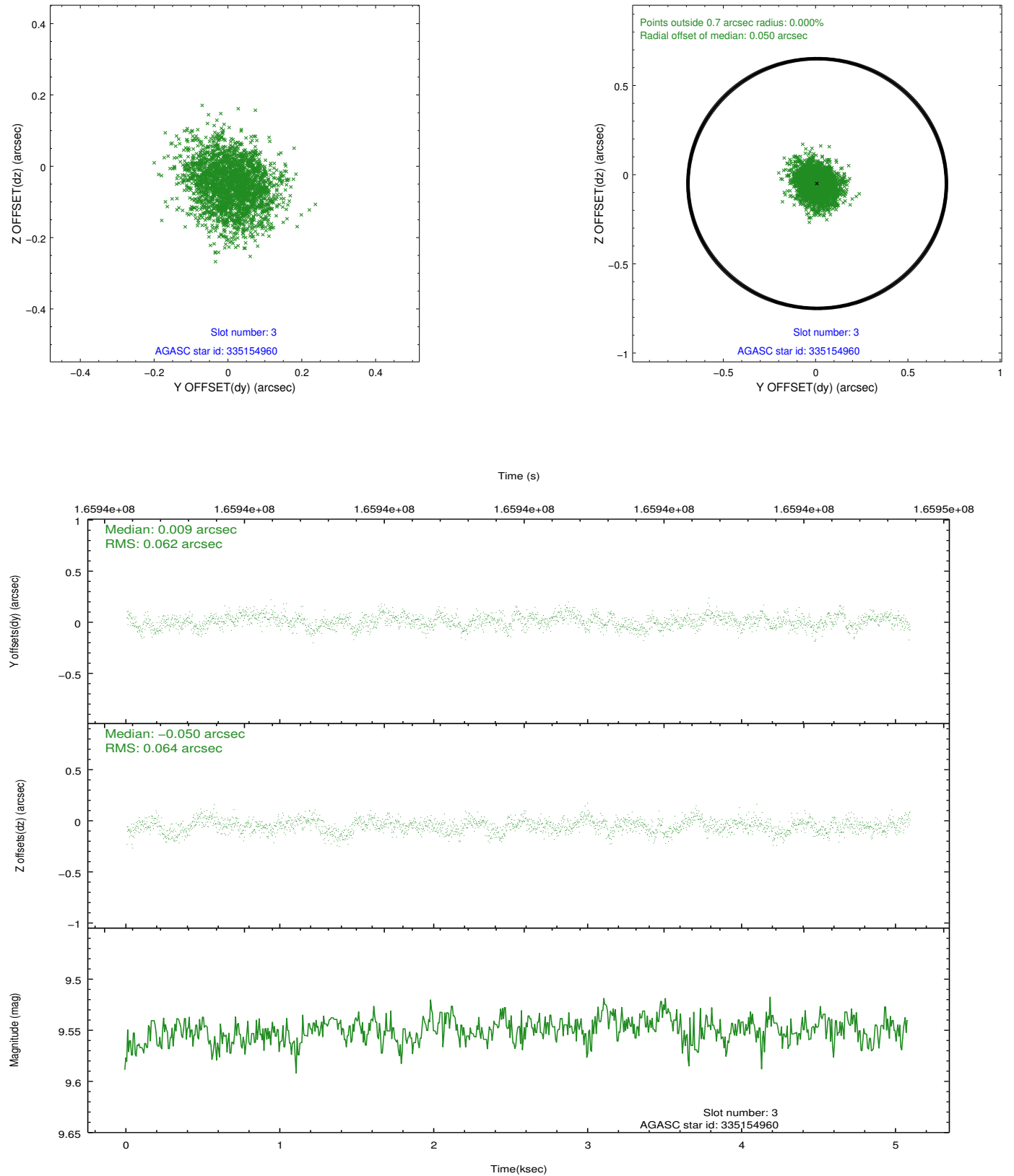


Slot Statistics

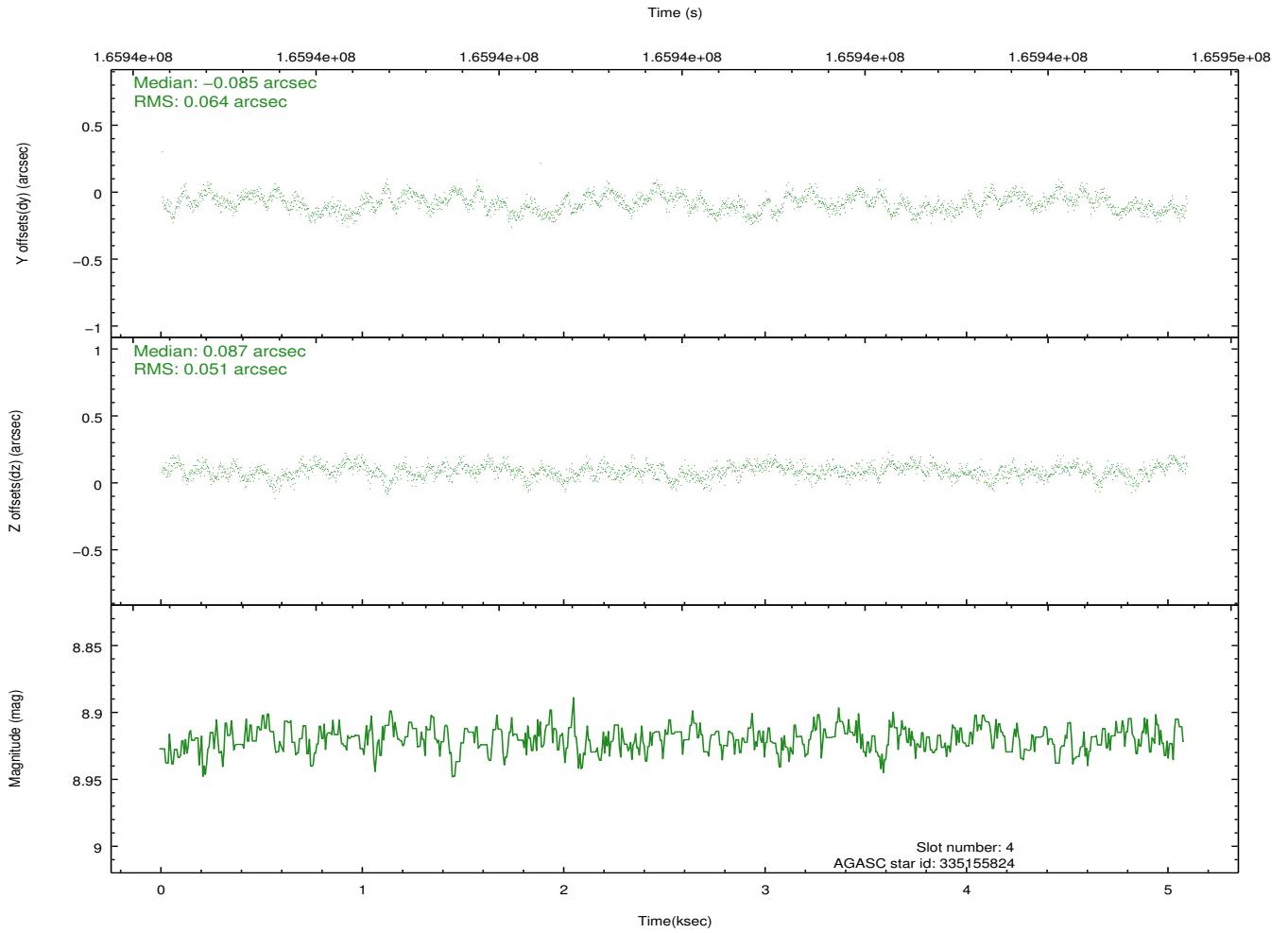
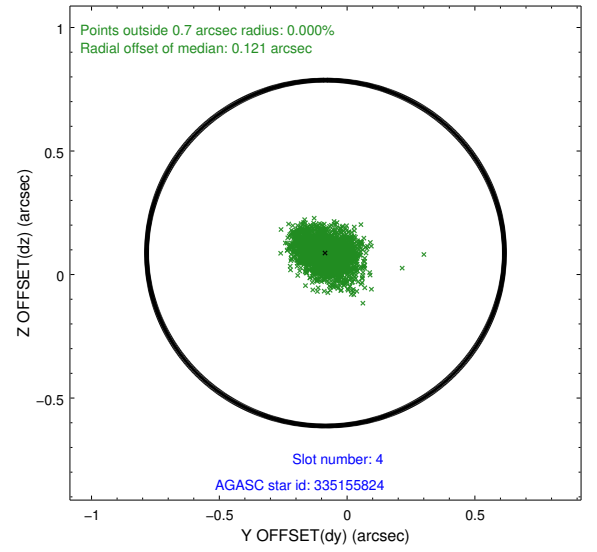
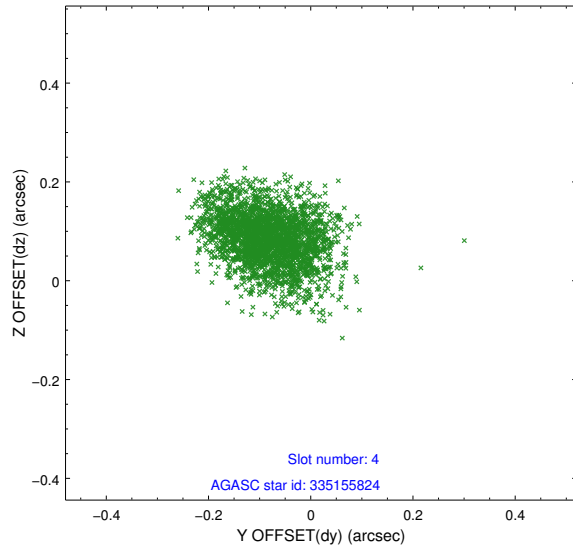
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.25 | 1242 | 0.009 | 0.010 | 0.006 | 0.013 | 0.000000 | 0.000000 | 937.95 | -830.43 |
| 1 | FID | ACIS-I-5 | 7.24 | 1242 | -0.075 | 0.054 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1809.52 | 1066.58 |
| 2 | FID | ACIS-I-6 | 7.26 | 1242 | -0.026 | 0.006 | 0.007 | 0.011 | 0.000000 | 0.000000 | 402.24 | 1712.33 |
| 3 | GUIDE | 335154960 | 9.55 | 2479 | 0.009 | -0.050 | 0.094 | 0.153 | 219.209961 | 33.303073 | 481.98 | 1105.50 |
| 4 | GUIDE | 335155824 | 8.92 | 2482 | -0.085 | 0.087 | 0.089 | 0.141 | 219.689900 | 34.035435 | 1032.53 | -1846.19 |
| 5 | GUIDE | 335157088 | 9.09 | 2483 | -0.036 | 0.053 | 0.065 | 0.109 | 219.274029 | 33.726909 | 1294.61 | -201.20 |
| 6 | GUIDE | 335158960 | 9.54 | 2482 | 0.051 | -0.011 | 0.086 | 0.141 | 219.582957 | 33.009904 | -1054.97 | 1214.88 |
| 7 | GUIDE | 335161896 | 9.46 | 2482 | 0.057 | -0.073 | 0.086 | 0.140 | 219.881342 | 33.121932 | -1496.89 | 333.01 |

2.4 Star Slots

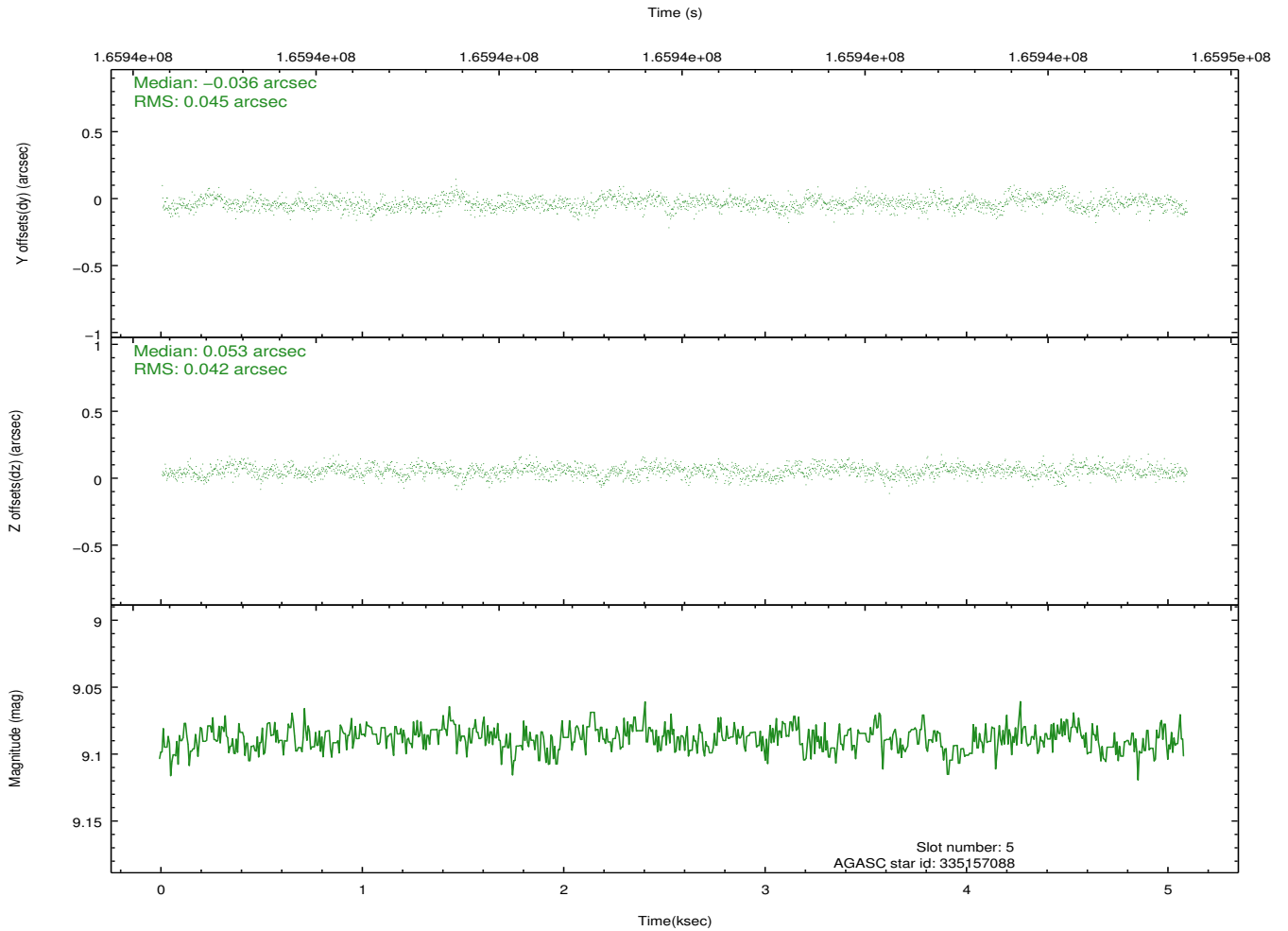
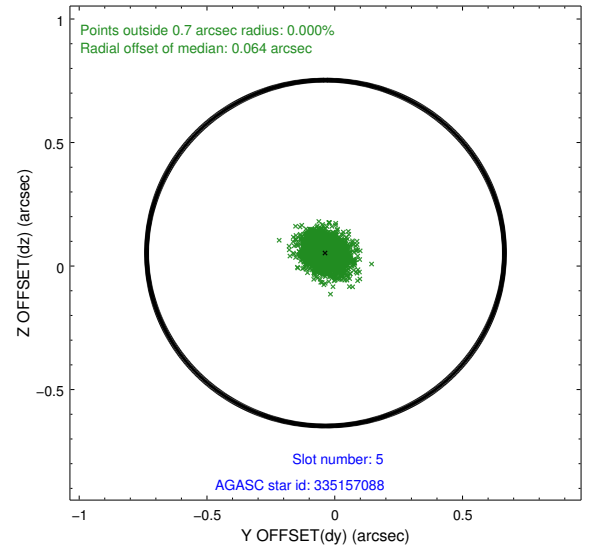
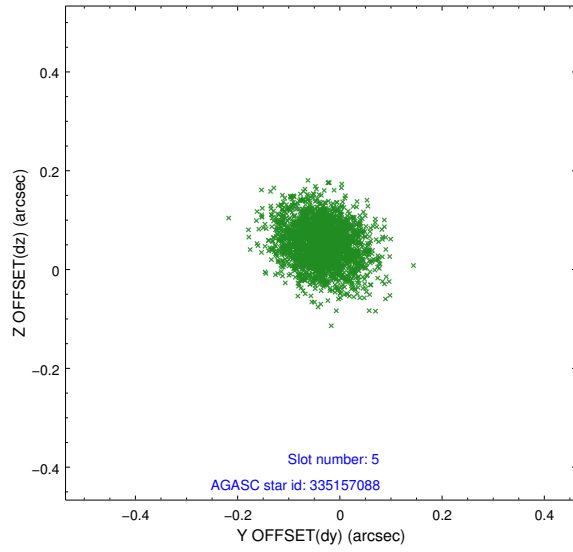
2.4.1 Slot 3



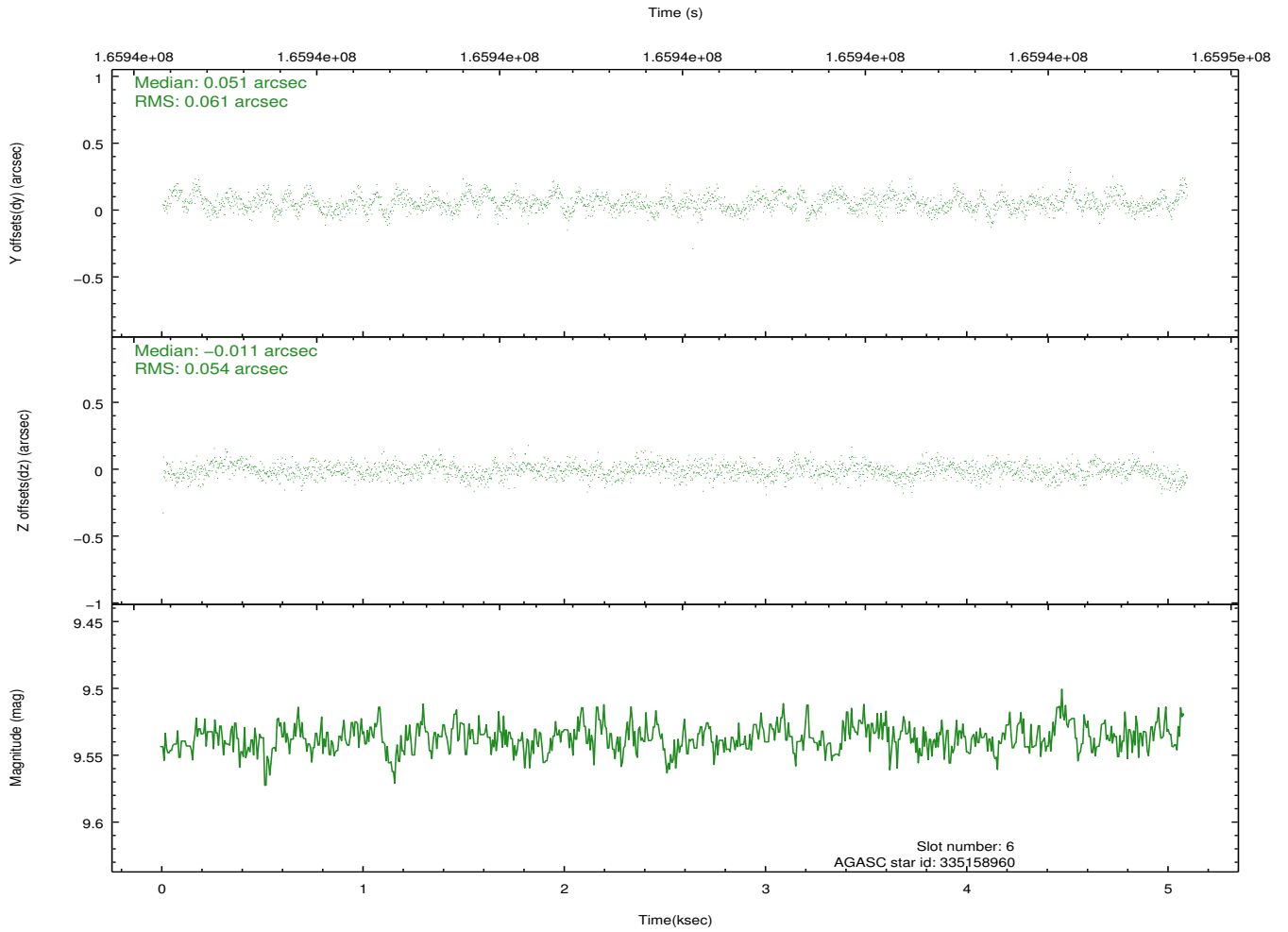
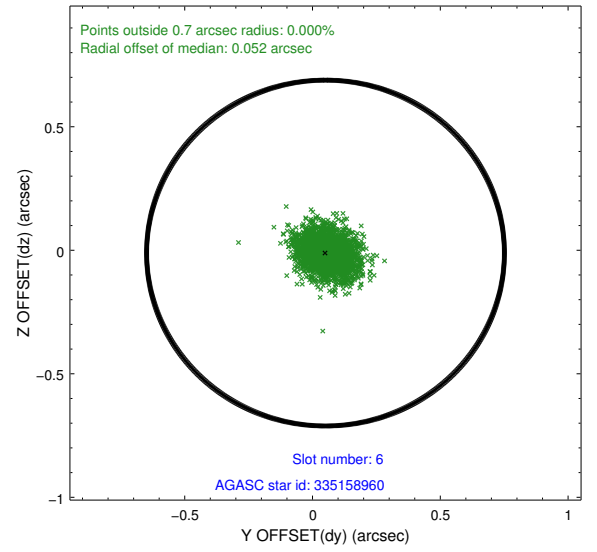
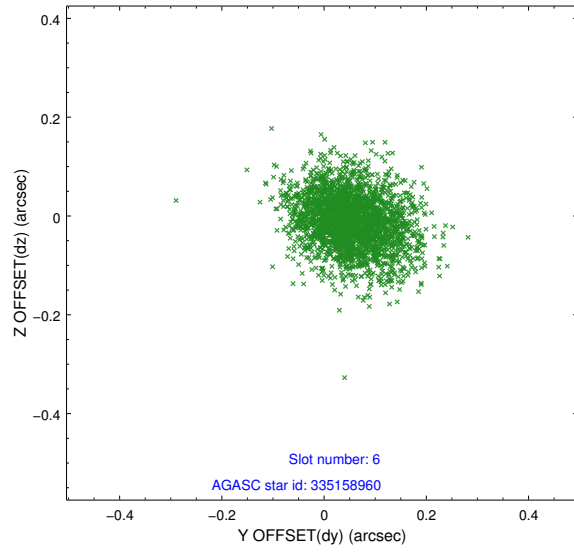
2.4.2 Slot 4



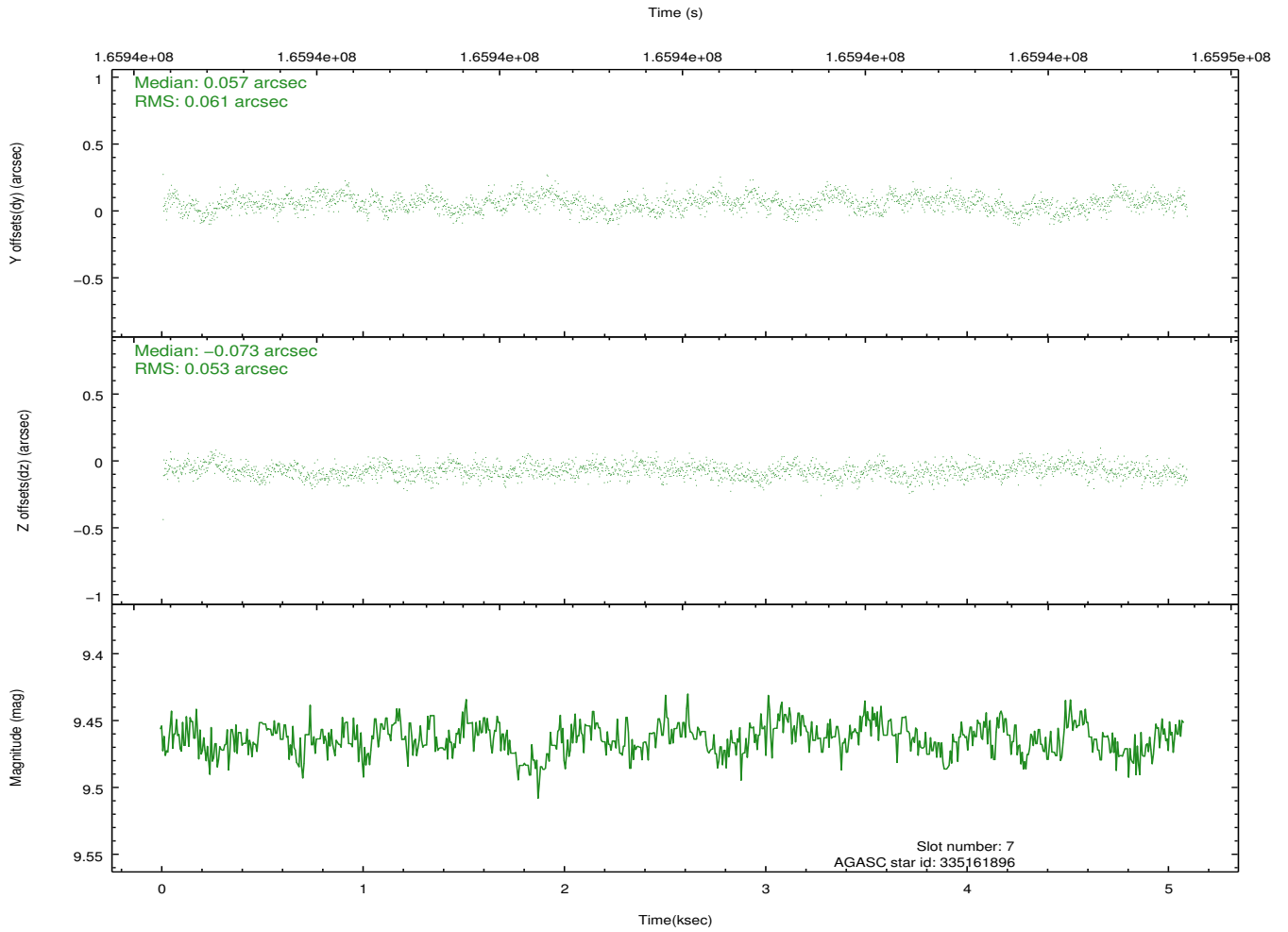
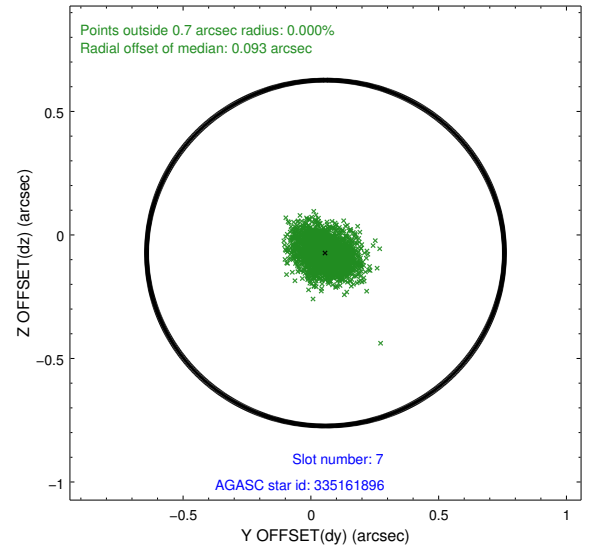
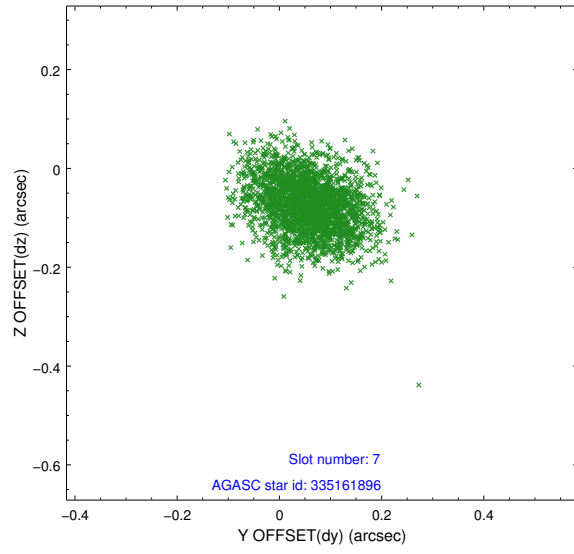
2.4.3 Slot 5



2.4.4 Slot 6

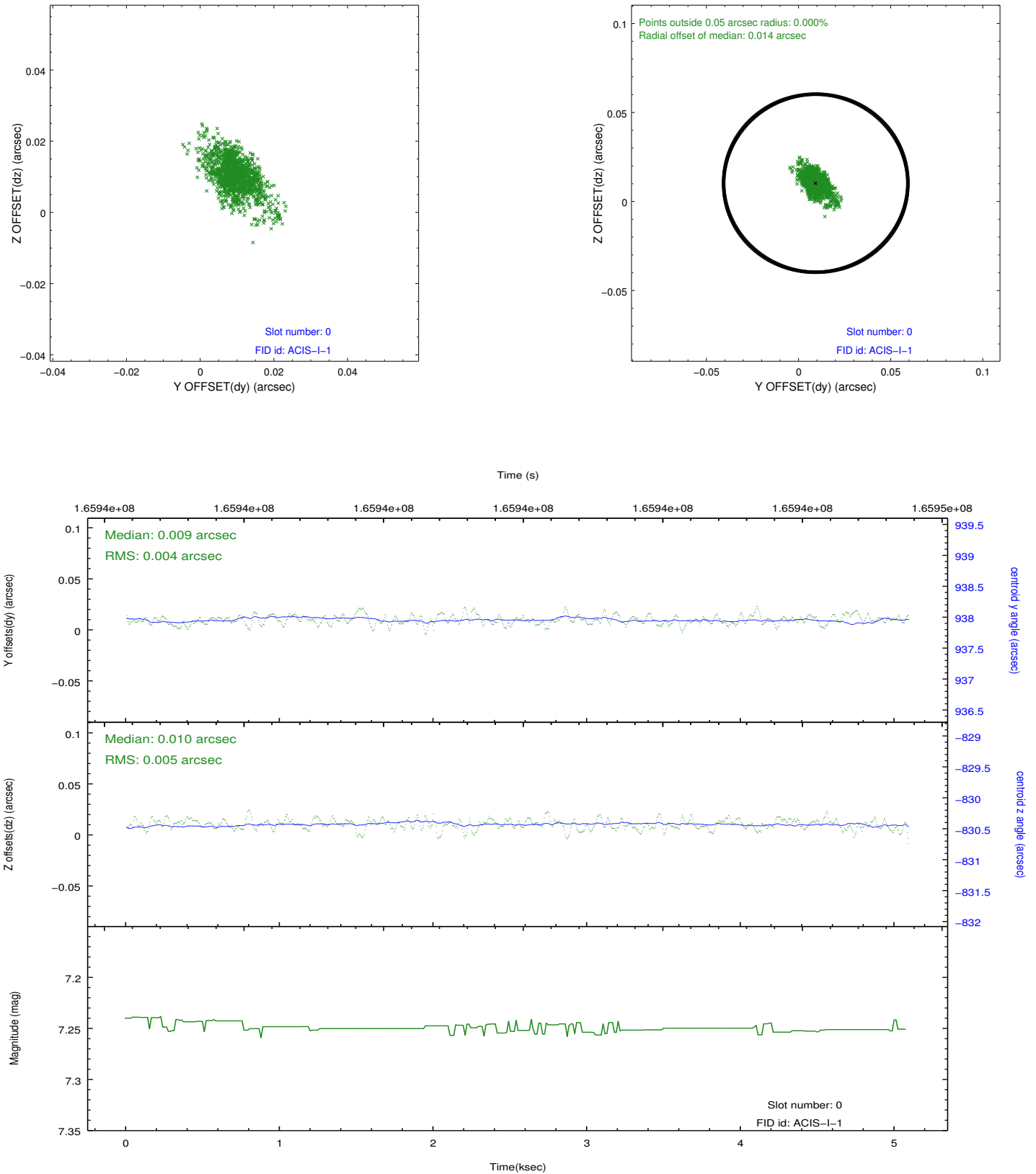


2.4.5 Slot 7

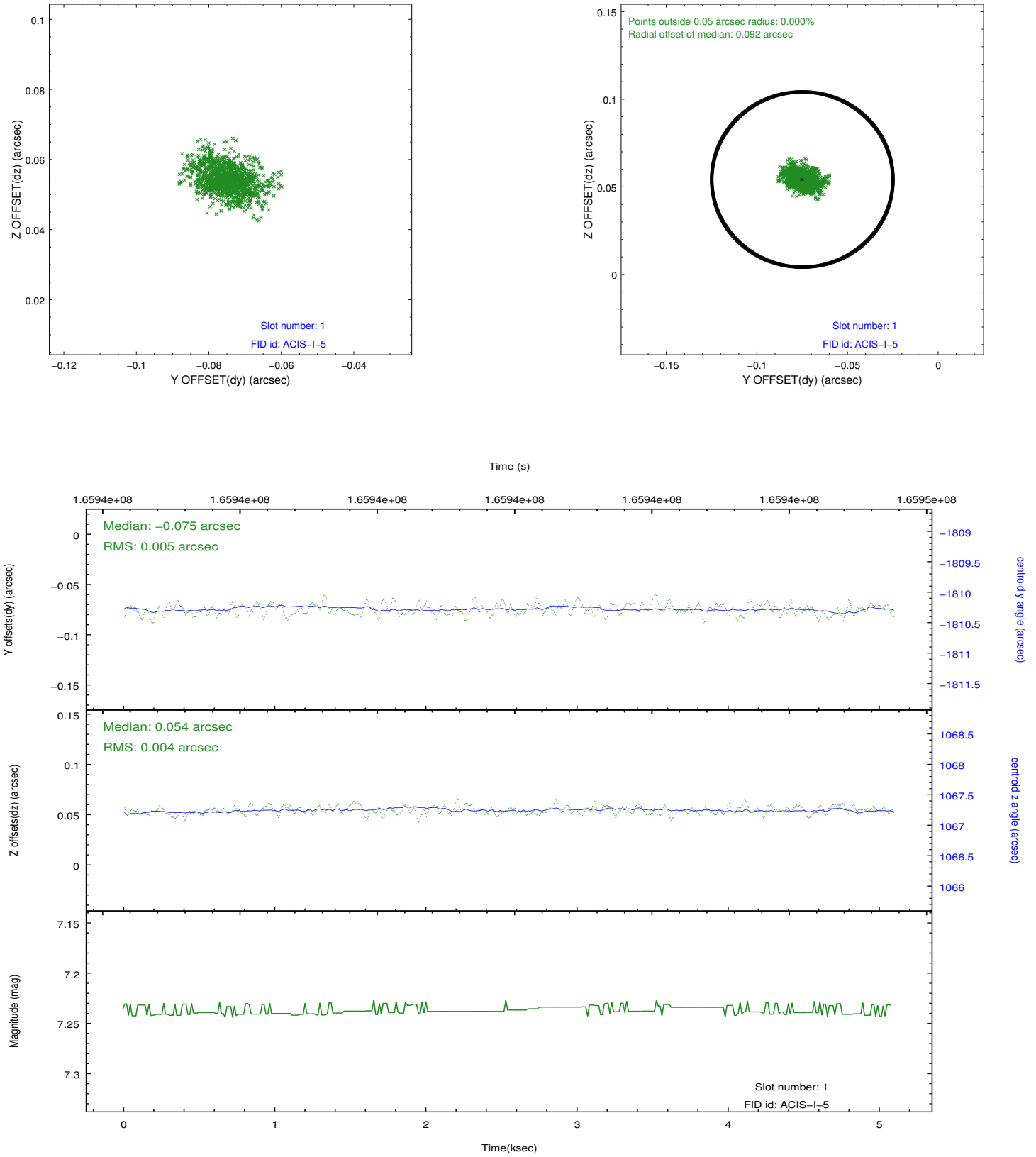


2.5 FID Slots

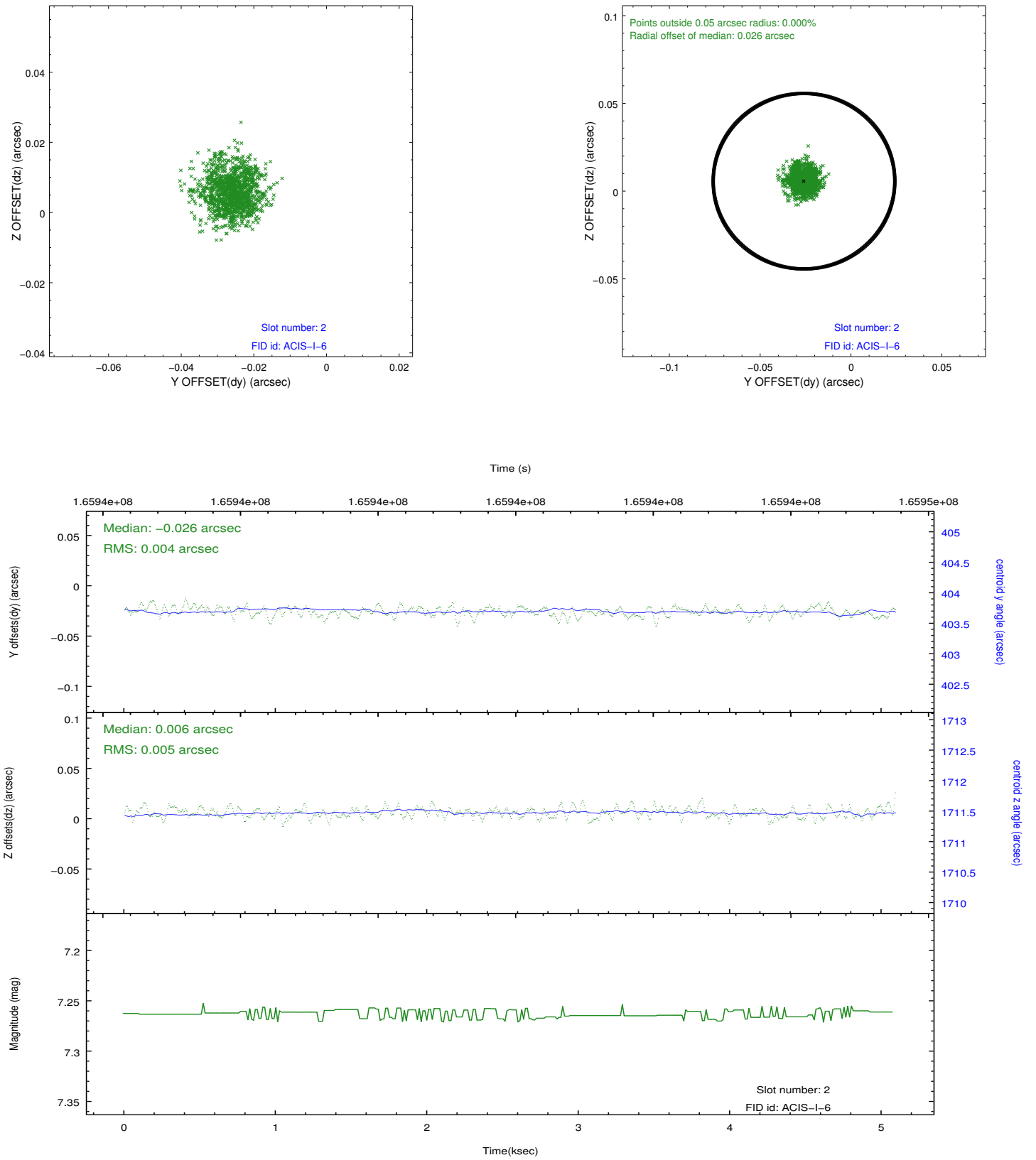
2.5.1 Slot 0



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) | 2012.11.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.677 |

A.2 Comments