

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8616 - L2 Version 2
Chandra X-Ray Center

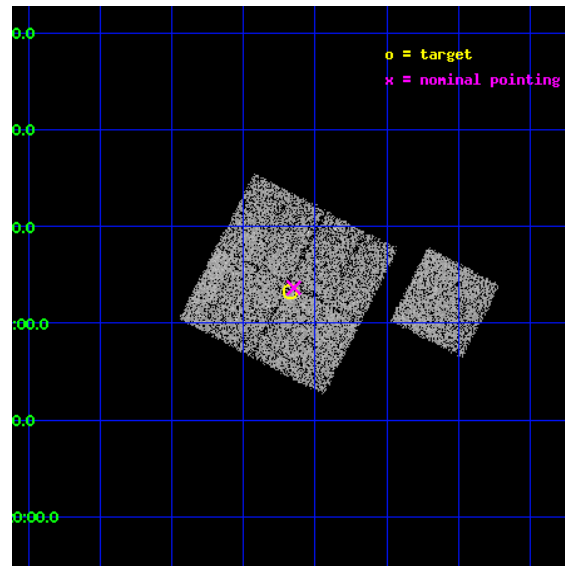
L2 Processing Date : May 19 2012

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1 Front

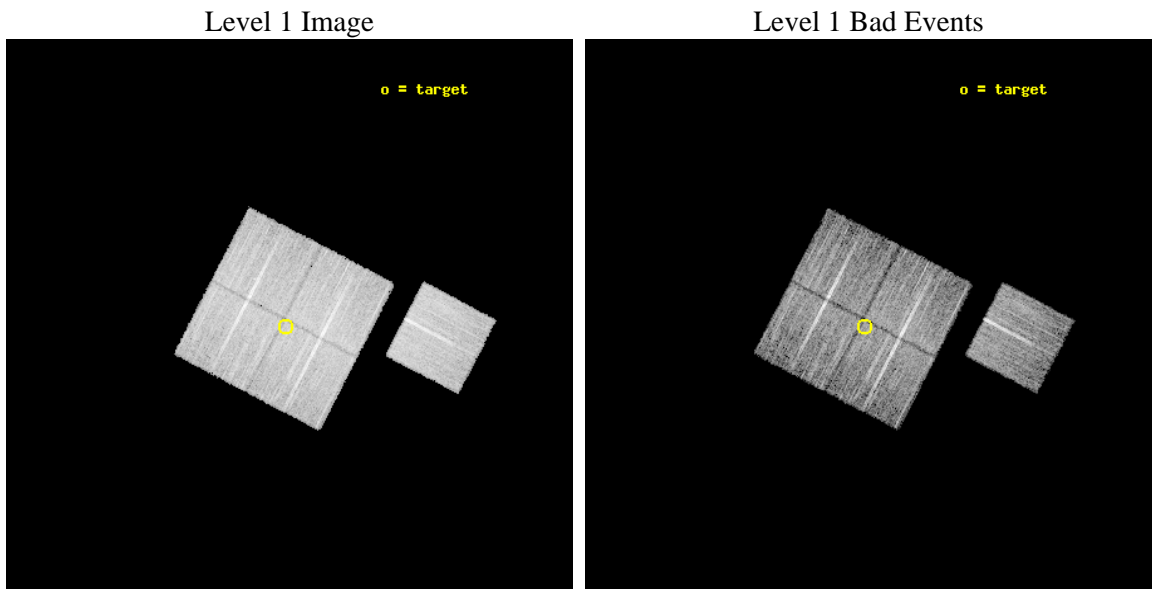
| | | |
|----------|--|---|
| seq_num | 900753 | Sequence number |
| obs_id | 8616 | Observation id |
| title | Chandra Observations of the DEEP2 Fields | Proposal title |
| observer | Dr. Stephen Murray | Principal investigator |
| object | DEEP2 Field 3 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 352.54266 | Observer's specified target RA [deg] |
| dec_targ | 0.055291 | Observer's specified target Dec [deg] |
| ra_nom | 352.53691129288 | Nominal RA [deg] |
| dec_nom | 0.061005677825148 | Nominal Dec [deg] |
| roll_nom | 117.5086967544 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8949.6590685248 | Sum of GTIs [s] |
| livetime | 8832.7251841514 | Livetime [s] |
| ontime0 | 8949.6590586305 | Sum of GTIs [s] |
| ontime1 | 8946.518068254 | Sum of GTIs [s] |
| ontime2 | 8952.8000688553 | Sum of GTIs [s] |
| ontime3 | 8949.6590685248 | Sum of GTIs [s] |
| ontime6 | 8952.8000688553 | Sum of GTIs [s] |
| l2events | 30915 | Number of level 2 events |



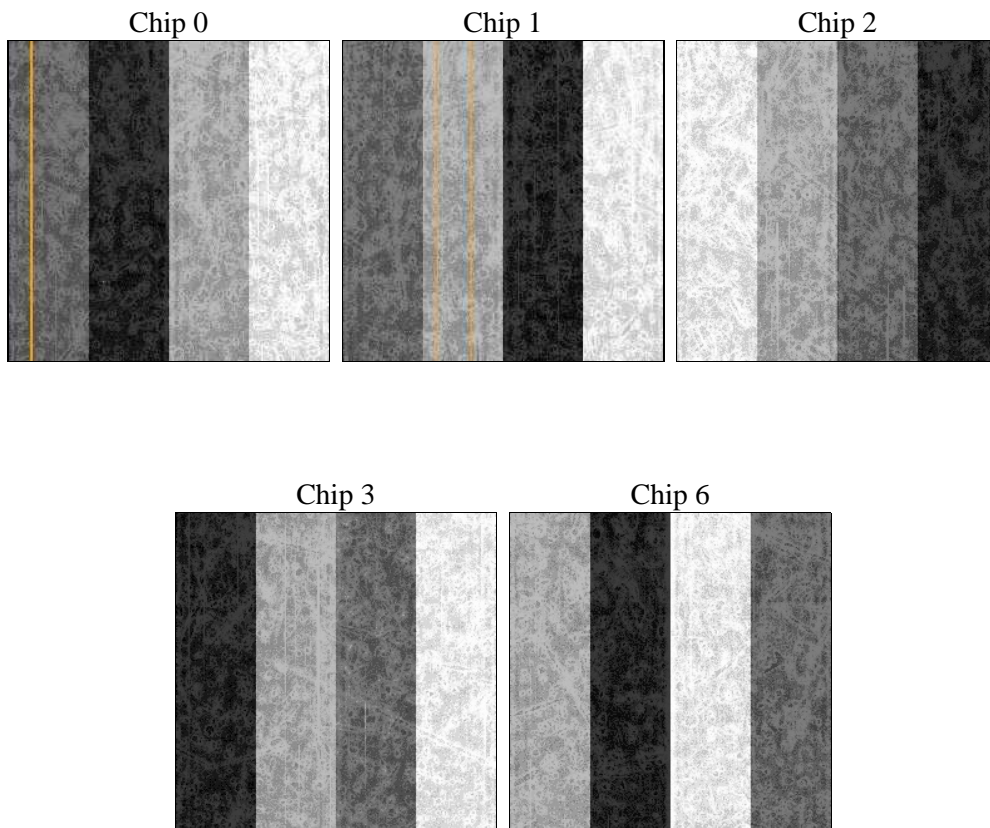
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 8771.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 8949.6590685248 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 8949.6590586305 | Sum of GTIs [s] |
| date | 2012-05-19T02:06:07 | Date and time of file creation | ontime1 | 8946.518068254 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 8952.8000688553 | Sum of GTIs [s] |
| | | | ontime3 | 8949.6590685248 | Sum of GTIs [s] |
| | | | ontime6 | 8952.8000688553 | Sum of GTIs [s] |
| | | | l1events | 378250 | Number of level 1 events |

2.1.4 Events

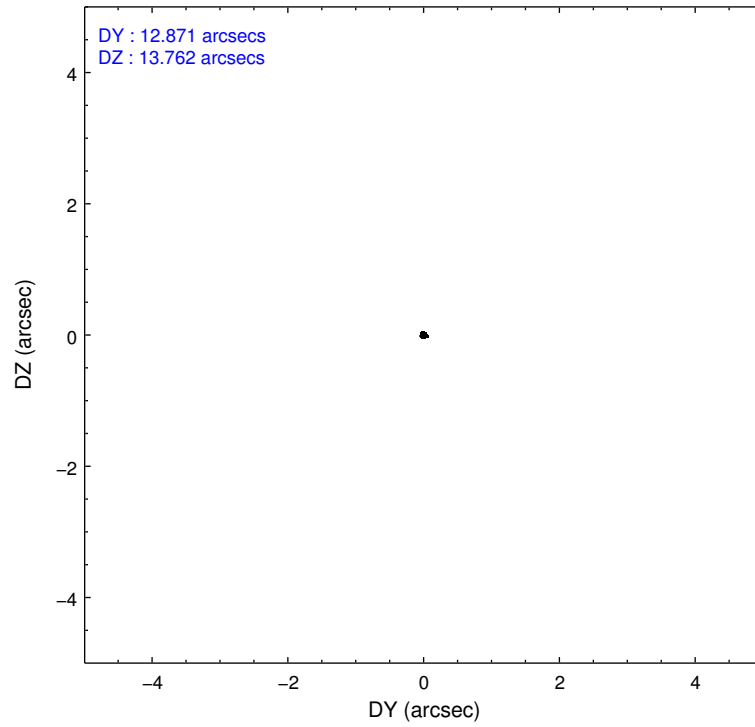
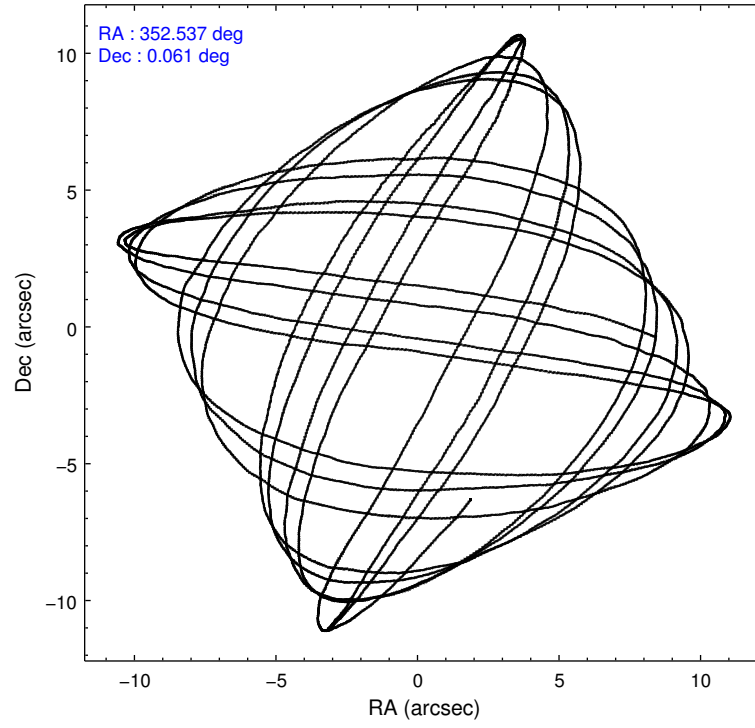
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 71425 | 74986 | 80642 | 74419 | 76778 |
| rejected events | 64042 | 66543 | 73581 | 67421 | 69407 |
| rejected % | 89% | 88% | 91% | 90% | 90% |

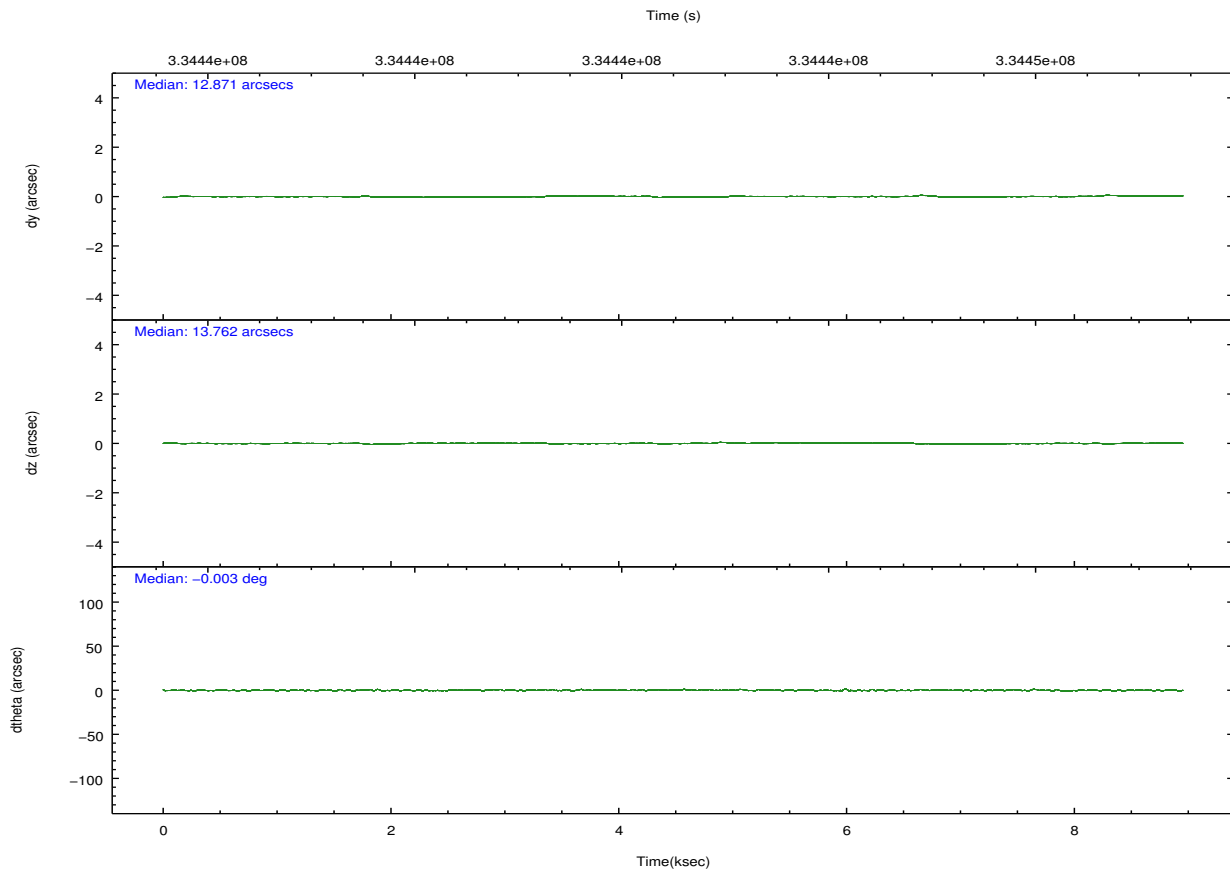
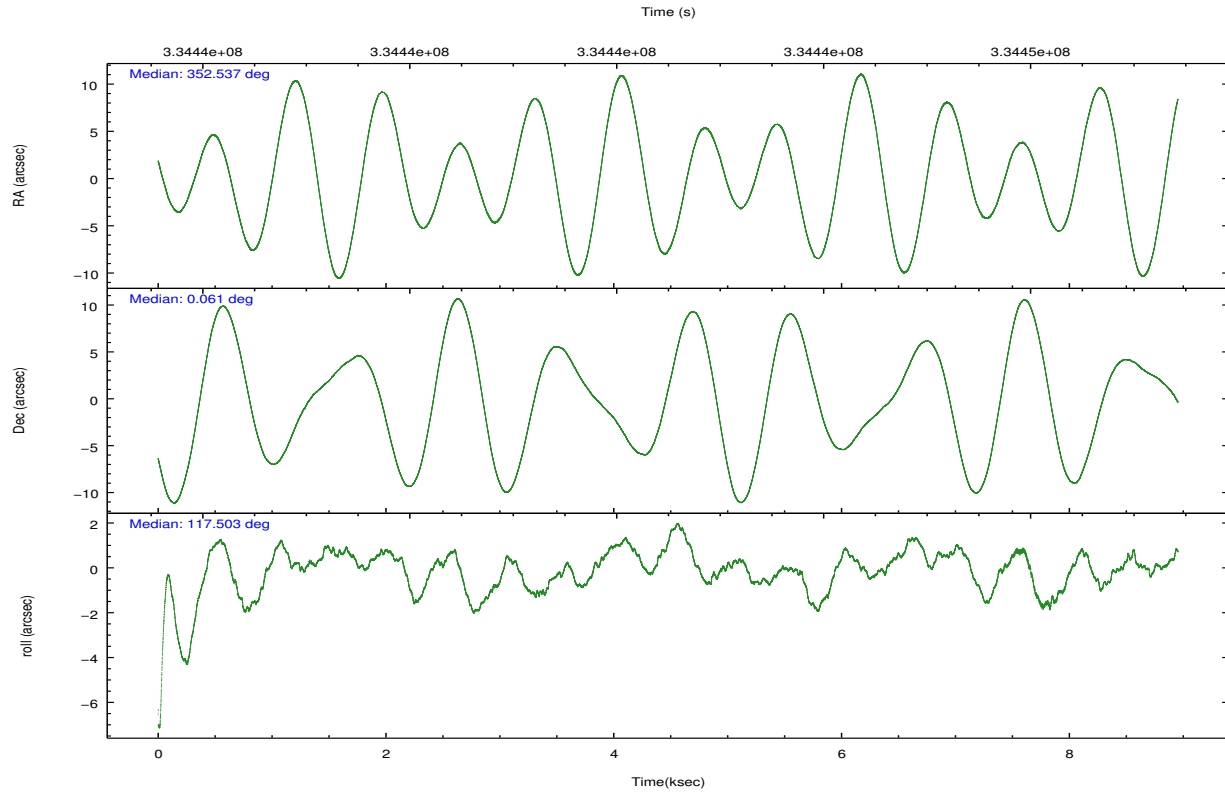
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 2514 | 3149 | 2588 | 2544 | 2658 |
| | 3% | 4% | 3% | 3% | 3% |
| grade 1 events | 38 | 52 | 38 | 56 | 34 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1933 | 1958 | 1763 | 1564 | 1679 |
| | 2% | 2% | 2% | 2% | 2% |
| grade 3 events | 874 | 980 | 792 | 816 | 825 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 4 events | 797 | 927 | 823 | 845 | 774 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 2709 | 3034 | 2458 | 3299 | 3136 |
| | 3% | 4% | 3% | 4% | 4% |
| grade 6 events | 1514 | 1760 | 1324 | 1512 | 1701 |
| | 2% | 2% | 1% | 2% | 2% |
| grade 7 events | 61046 | 63126 | 70856 | 63783 | 65971 |
| | 85% | 84% | 87% | 85% | 85% |

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 | CCD I0 on | Y | Y |
| Observation mode | POINTING | POINTING | CCD I1 on | Y | Y |
| [deg] Pointing RA | 352.560215 | 352.5369112928771 | CCD I2 on | Y | Y |
| [deg] Pointing Dec | 0.046353 | 0.06100567782514796 | CCD I3 on | Y | Y |
| [deg] Pointing Roll | 117.299989 | 117.5086967544038 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | CCD S1 on | N | N |
| [mm] SIM defocus | 0 | 0.001439871863259334 | CCD S2 on | O1 | Y |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | CCD S3 on | N | N |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | CCD S4 on | N | N |
| [s] Observation start time (MET) | 334438199.184000 | 334437815.44884 | CCD S5 on | N | N |
| Observation start date | 2008-08-06T19:28:54 | 2008-08-06T19:23:35 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 334446970.184000 | 334447103.99929 | On-chip summing requested | N | N |
| Observation end date | 2008-08-06T21:55:05 | 2008-08-06T21:58:23 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.1 |

2.3 Aspect



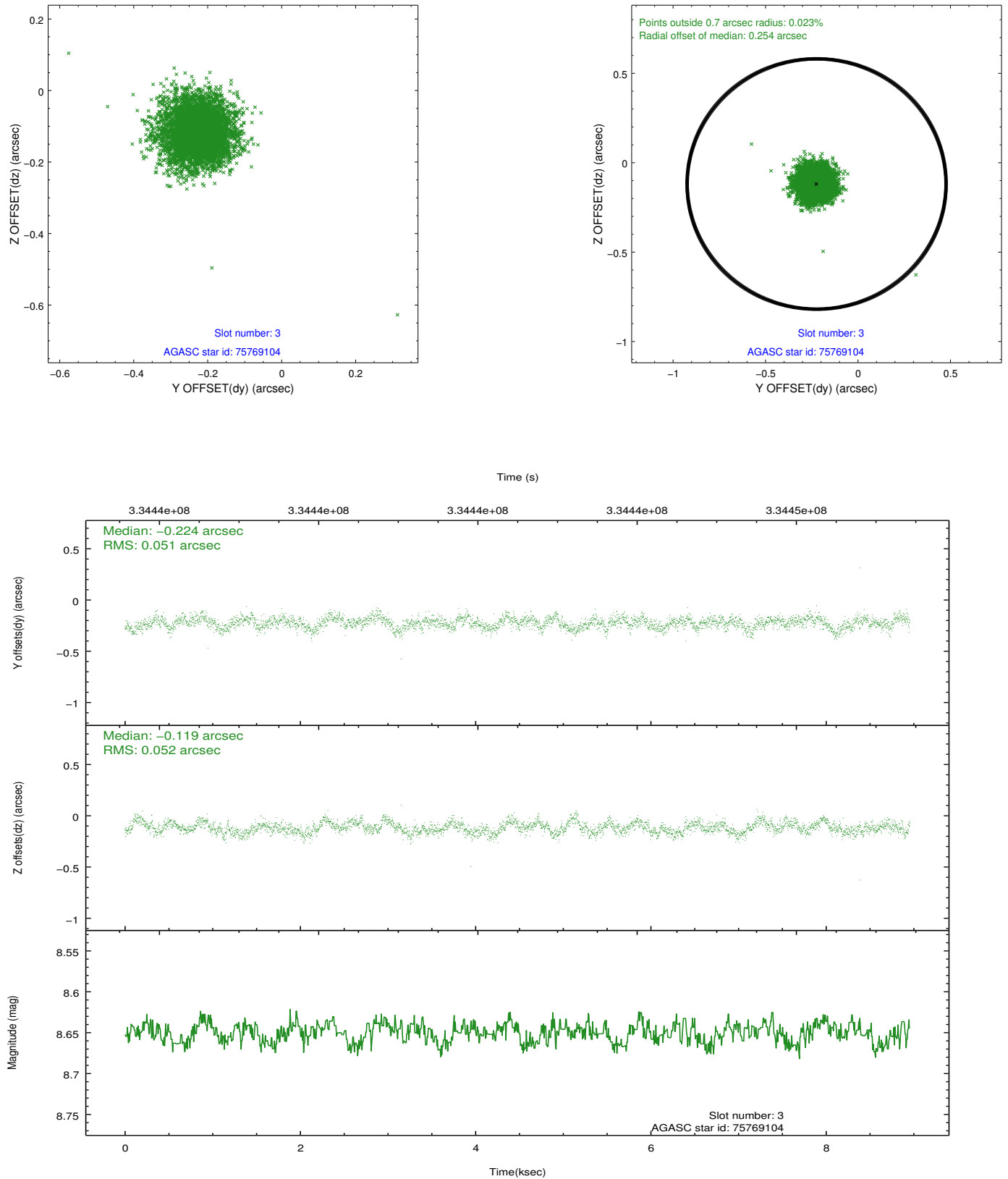


Slot Statistics

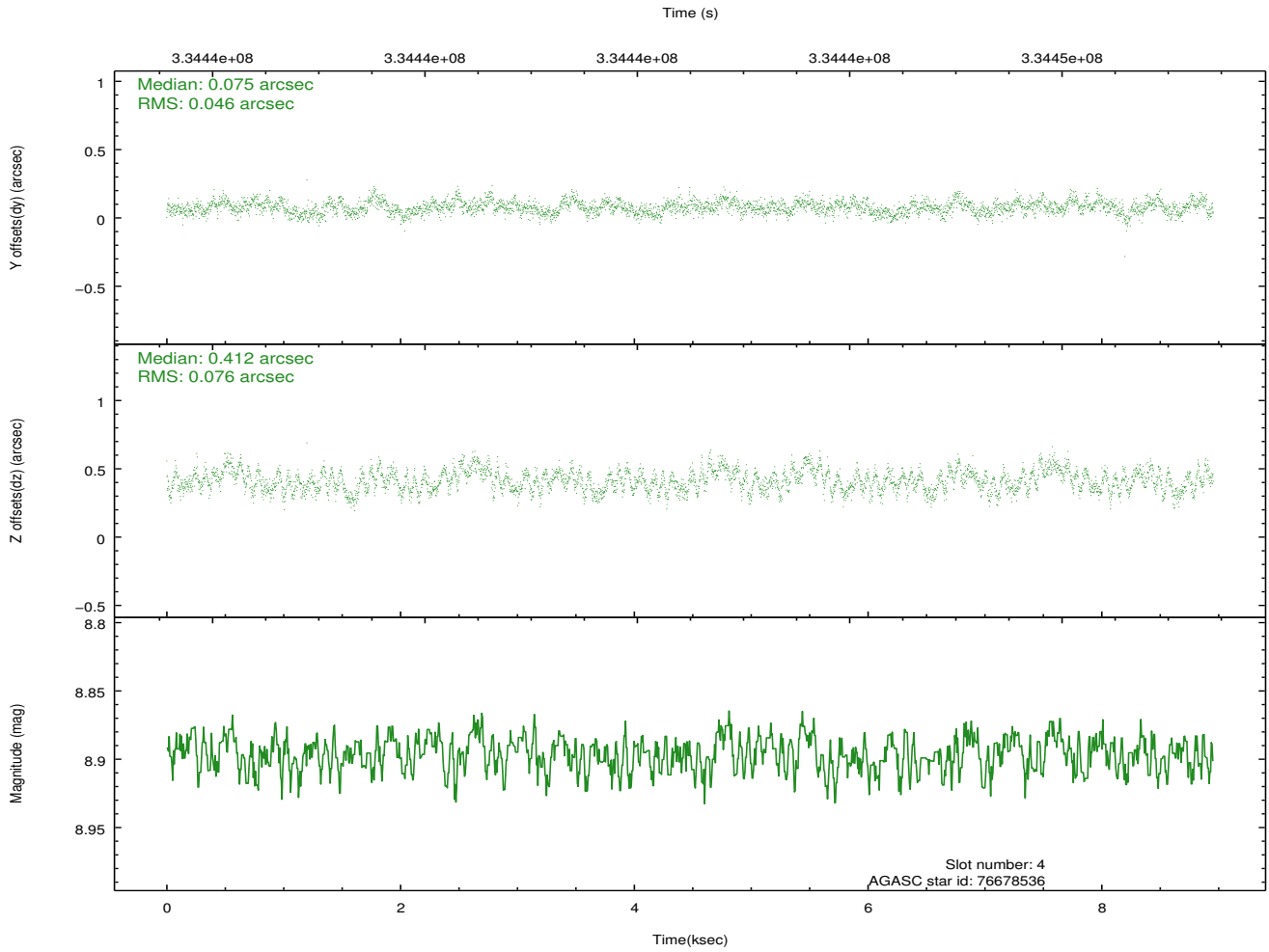
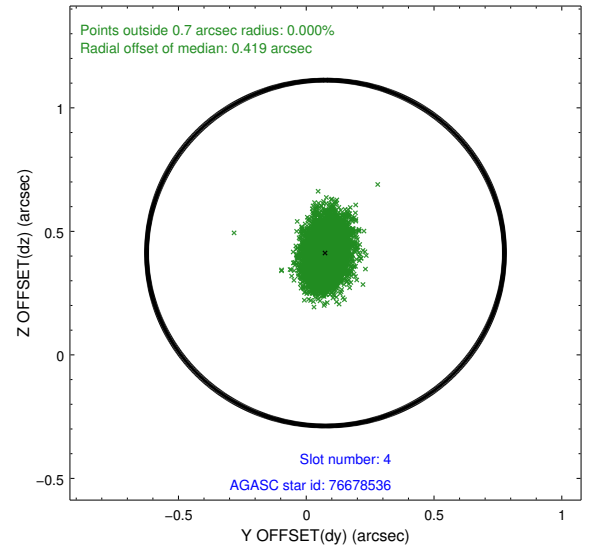
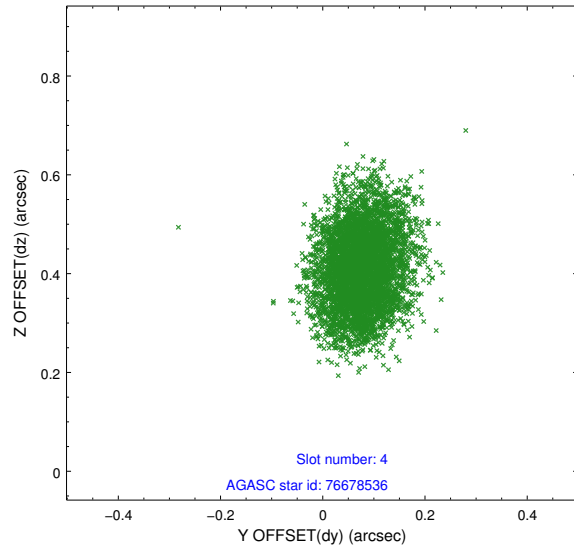
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.07 | 2184 | 0.005 | 0.049 | 0.006 | 0.010 | 0.000000 | 0.000000 | 926.66 | -837.27 |
| 1 | FID | ACIS-I-5 | 7.05 | 2184 | -0.167 | 0.032 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1821.30 | 1059.87 |
| 2 | FID | ACIS-I-6 | 7.06 | 2184 | 0.070 | -0.011 | 0.007 | 0.011 | 0.000000 | 0.000000 | 391.58 | 1705.04 |
| 3 | GUIDE | 75769104 | 8.65 | 4366 | -0.224 | -0.119 | 0.076 | 0.124 | 351.845083 | 0.370778 | 2218.34 | 1752.40 |
| 4 | GUIDE | 76678536 | 8.90 | 4369 | 0.075 | 0.412 | 0.095 | 0.154 | 353.237558 | 0.180446 | -688.58 | -2387.67 |
| 5 | GUIDE | 687347464 | 10.22 | 4363 | 0.175 | -0.177 | 0.132 | 0.210 | 352.245777 | -0.524573 | -1307.38 | 1947.71 |
| 6 | GUIDE | 687347656 | 9.58 | 4366 | -0.116 | -0.118 | 0.103 | 0.162 | 352.228641 | -0.041094 | 267.43 | 1205.69 |
| 7 | GUIDE | 688265896 | 9.15 | 4366 | 0.087 | 0.009 | 0.113 | 0.180 | 352.587516 | -0.177872 | -762.23 | 283.03 |

2.4 Star Slots

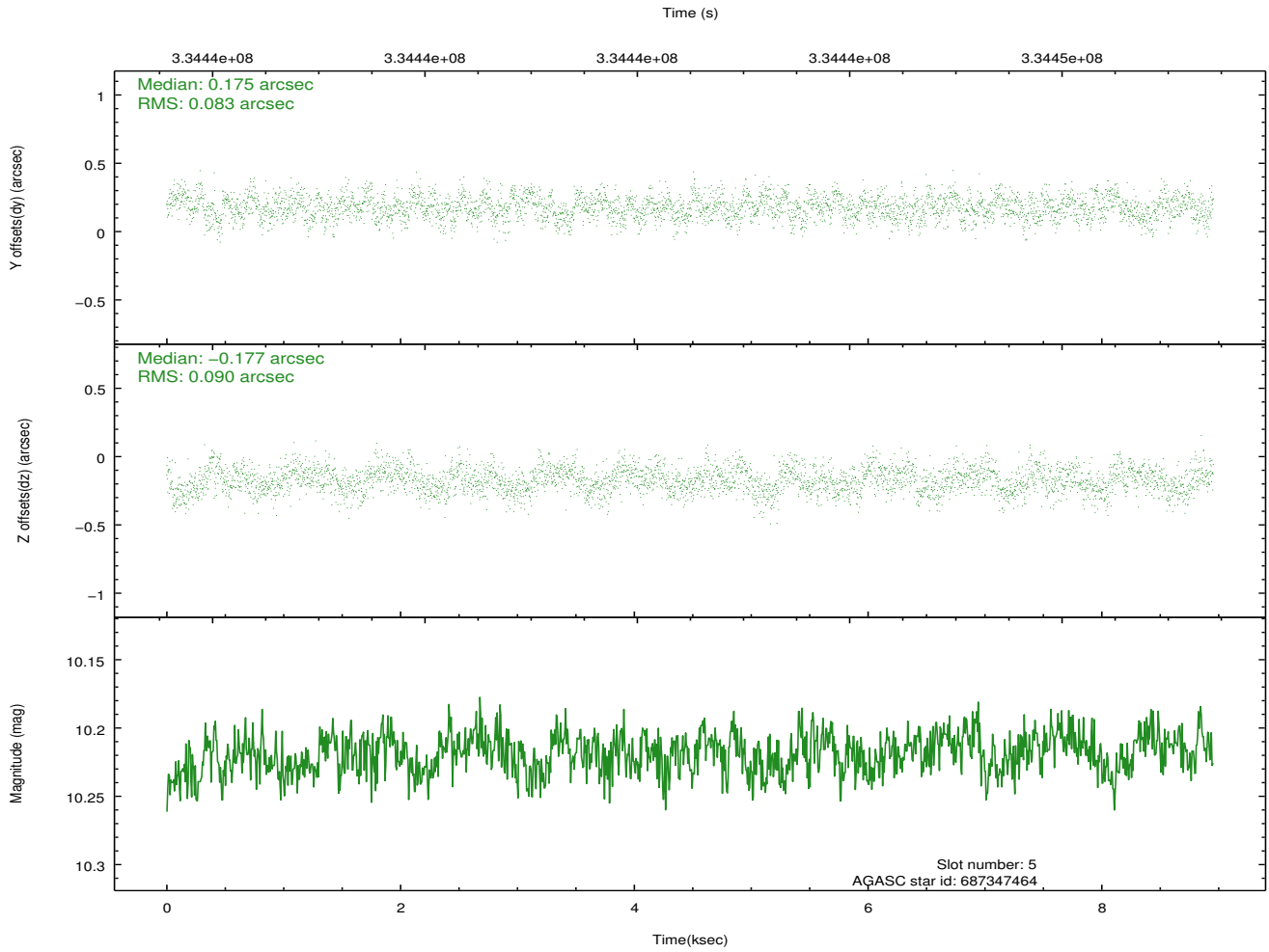
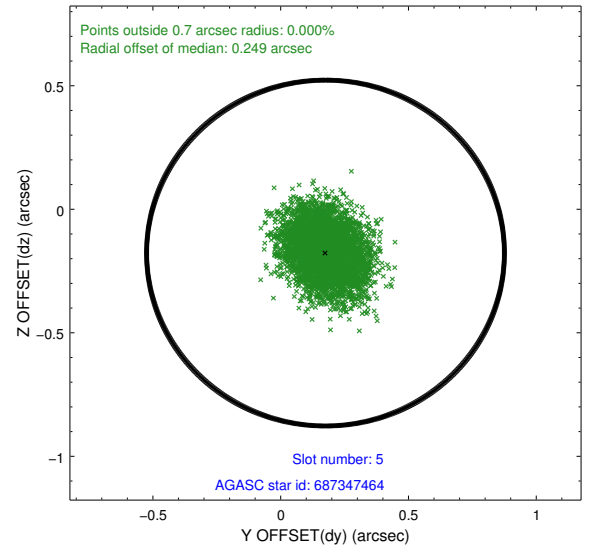
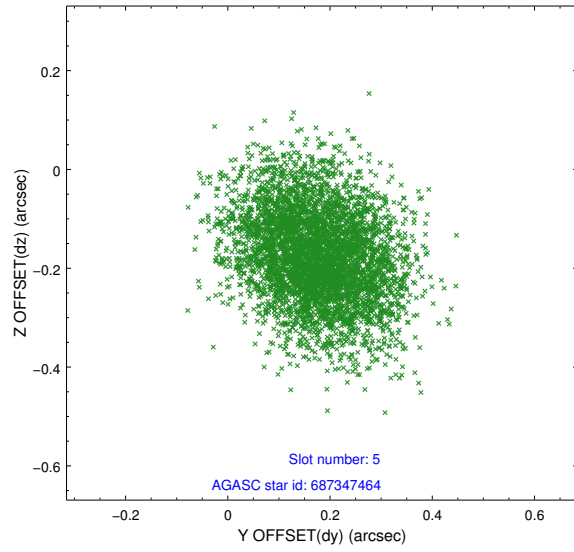
2.4.1 Slot 3



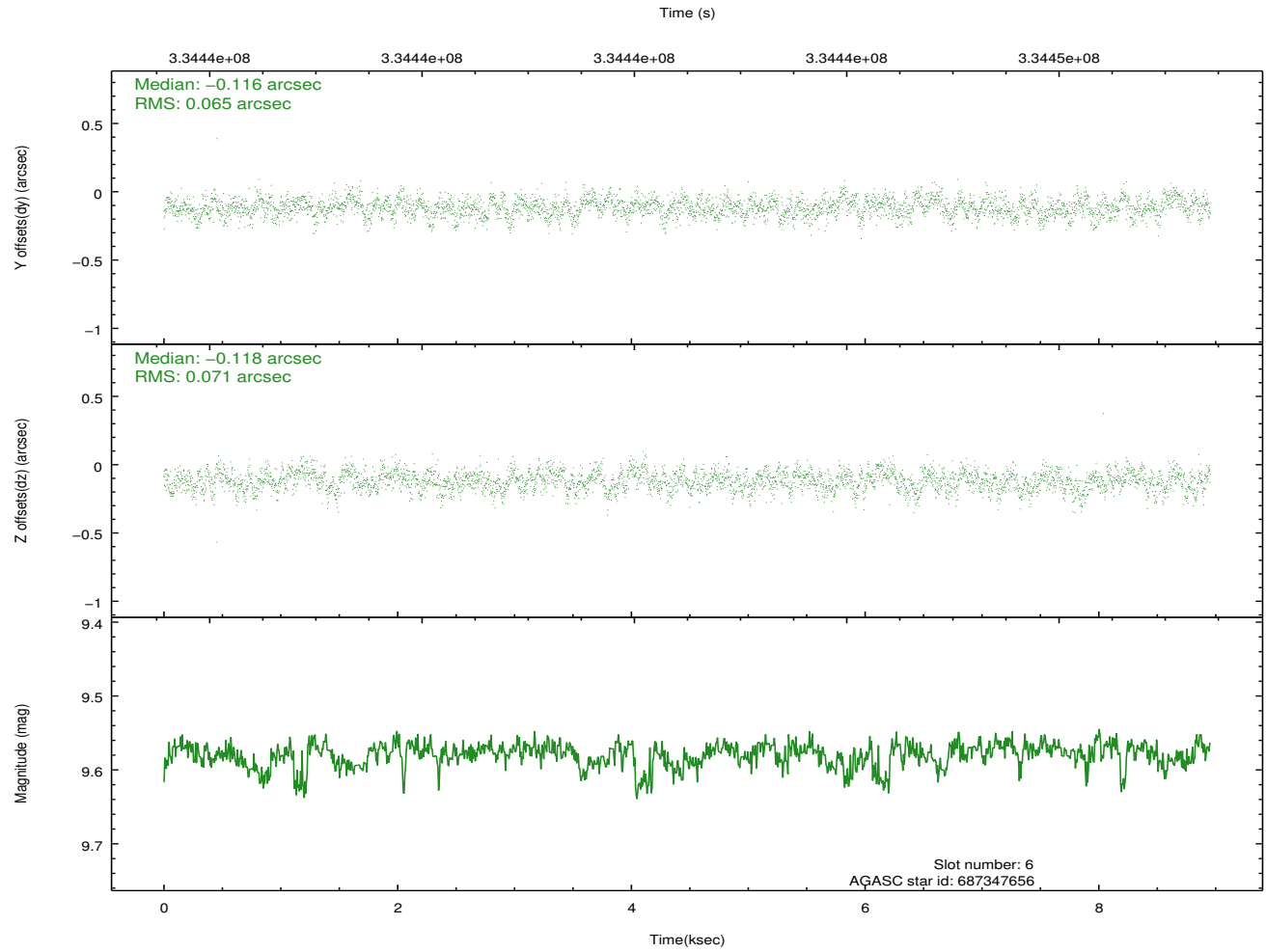
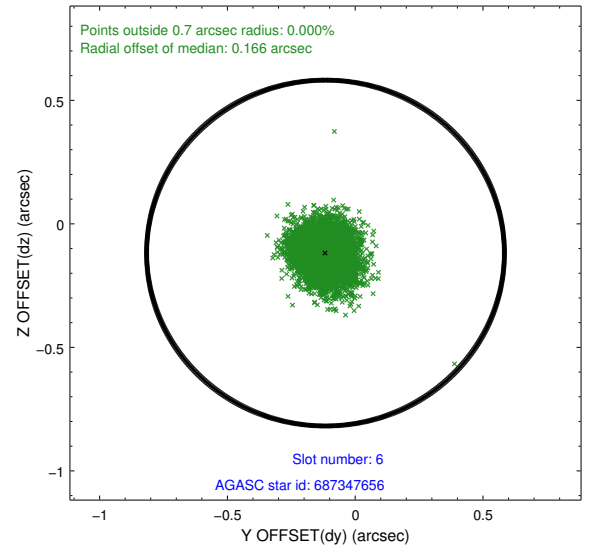
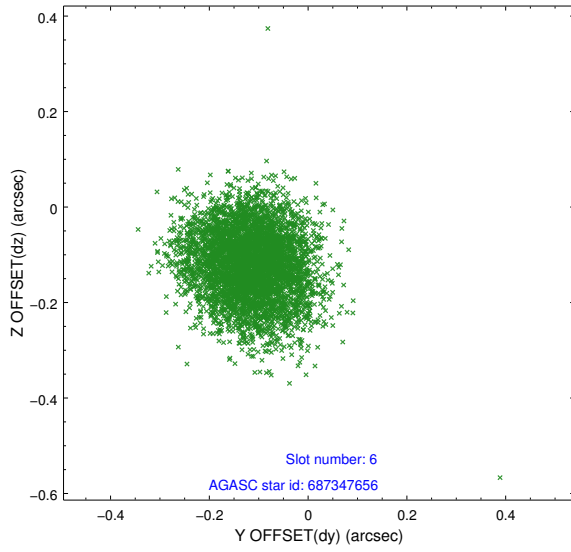
2.4.2 Slot 4



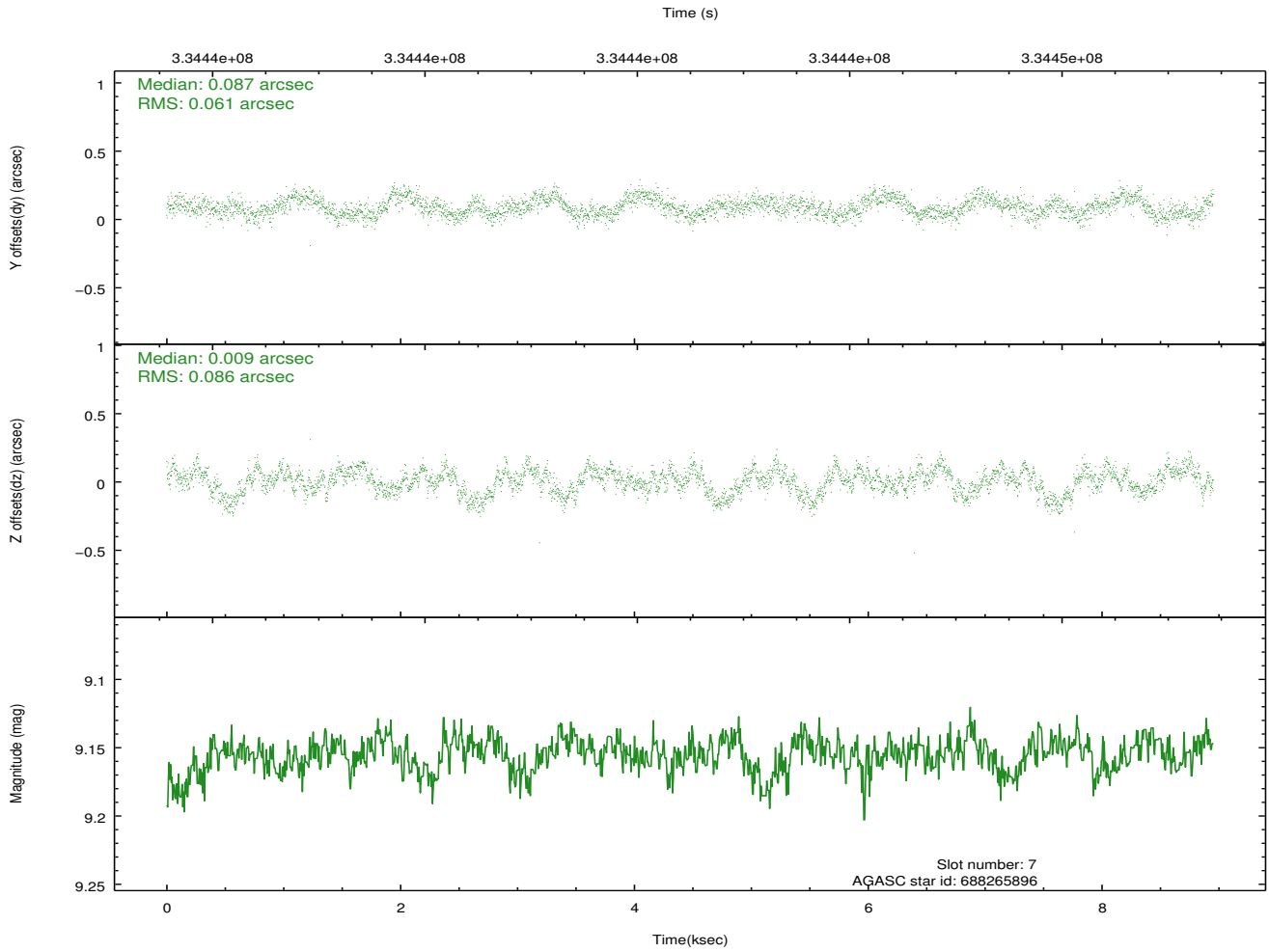
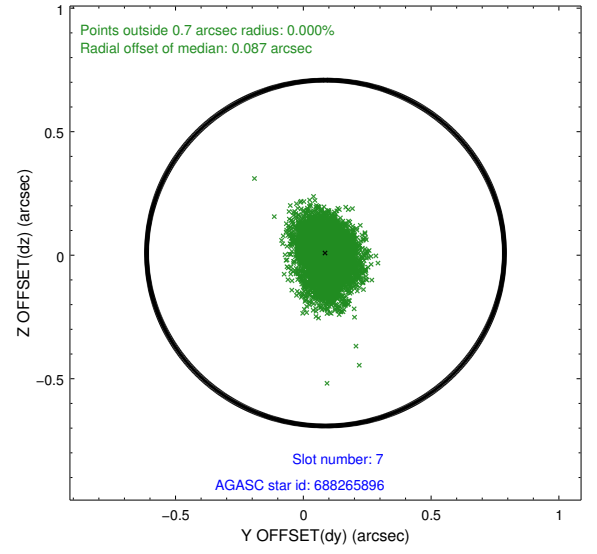
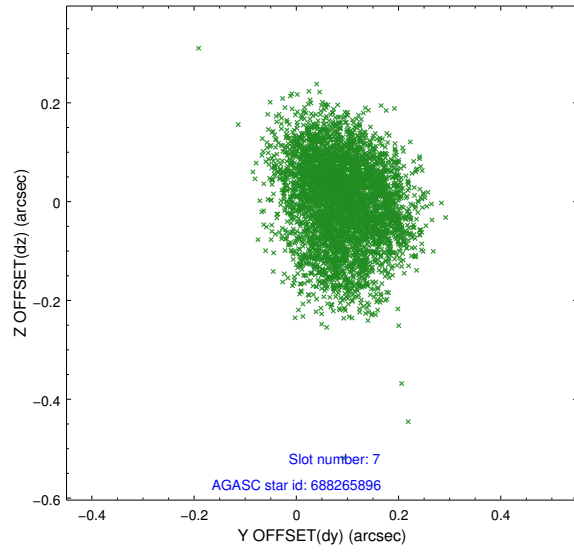
2.4.3 Slot 5



2.4.4 Slot 6

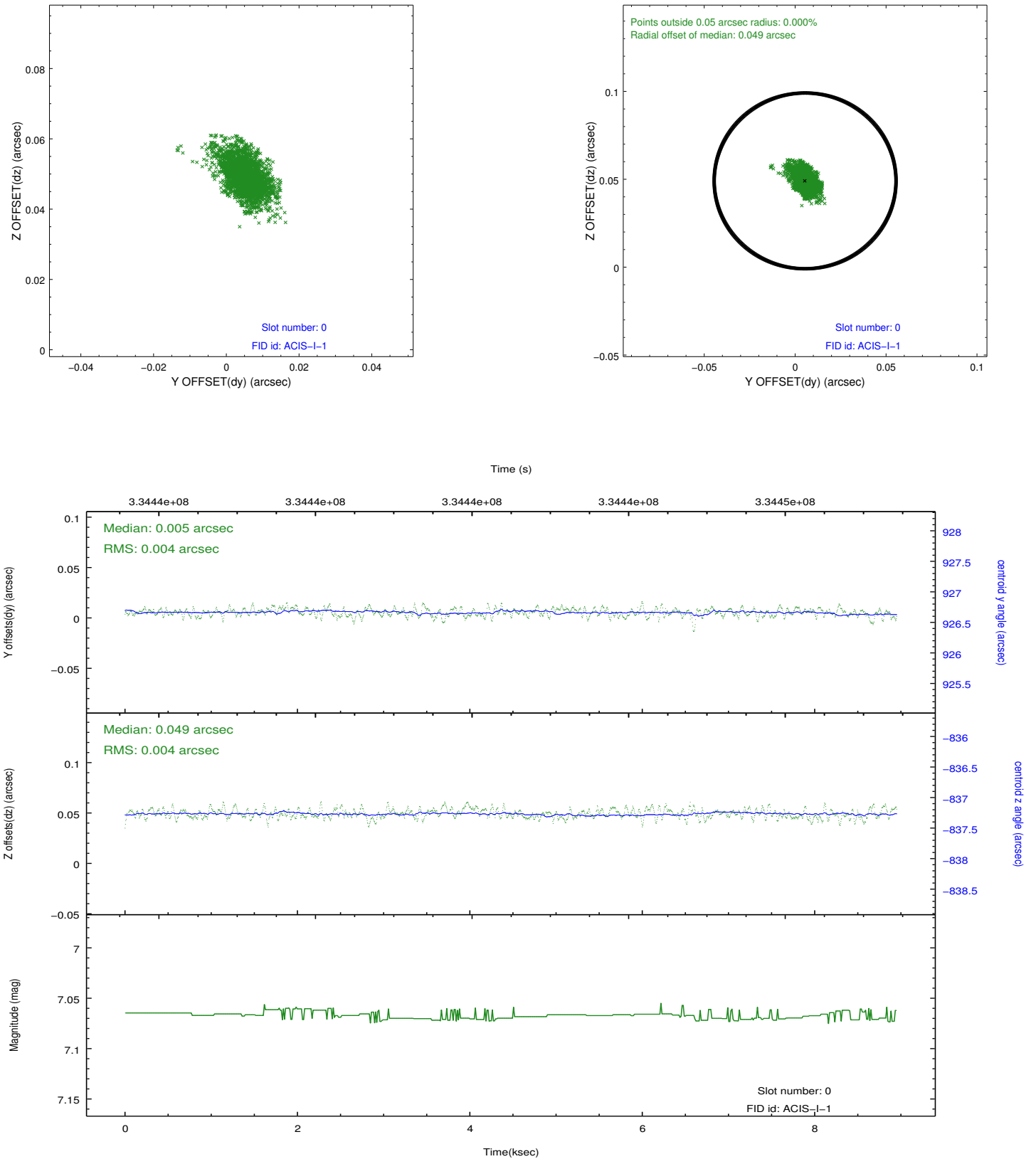


2.4.5 Slot 7

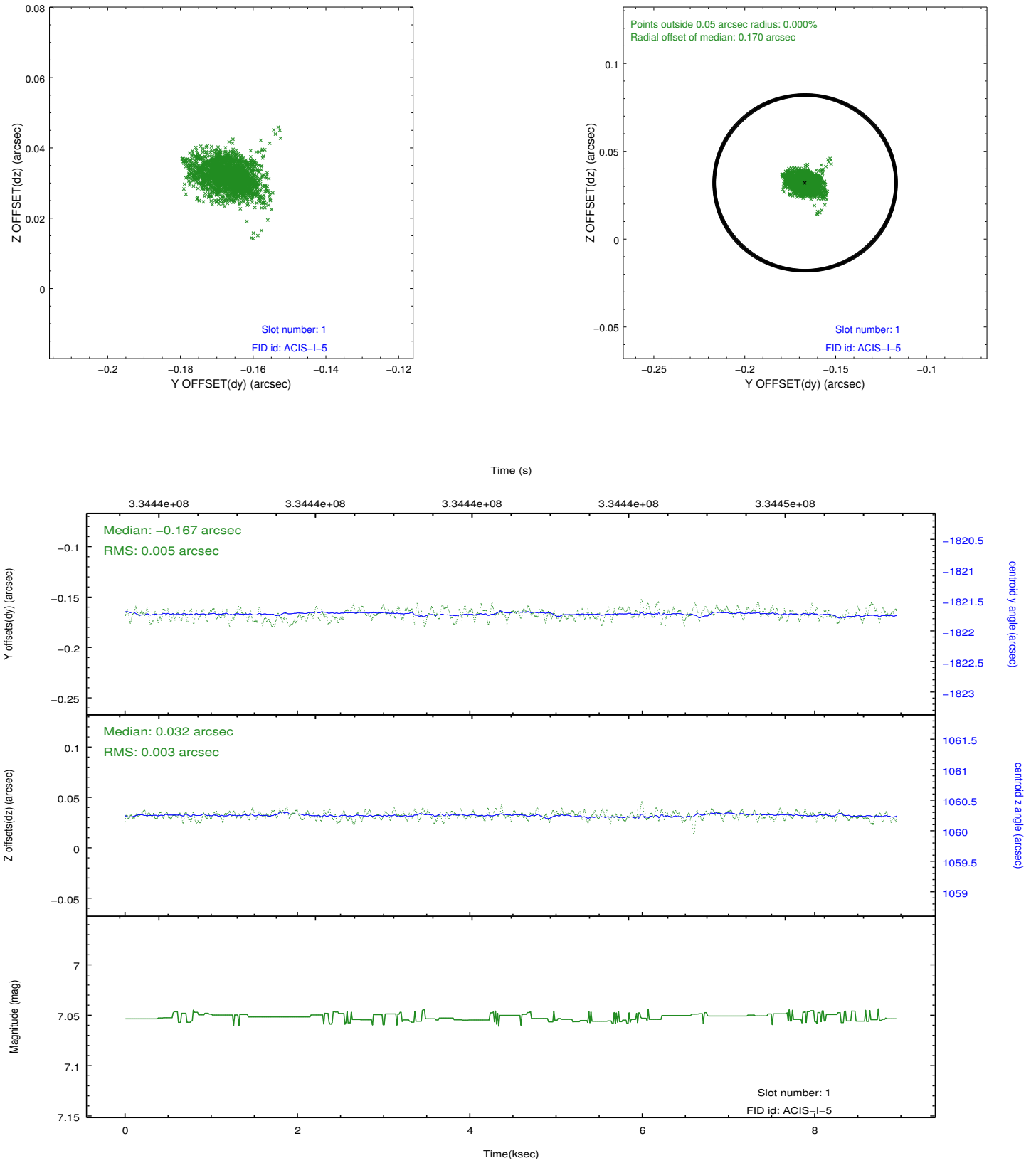


2.5 FID Slots

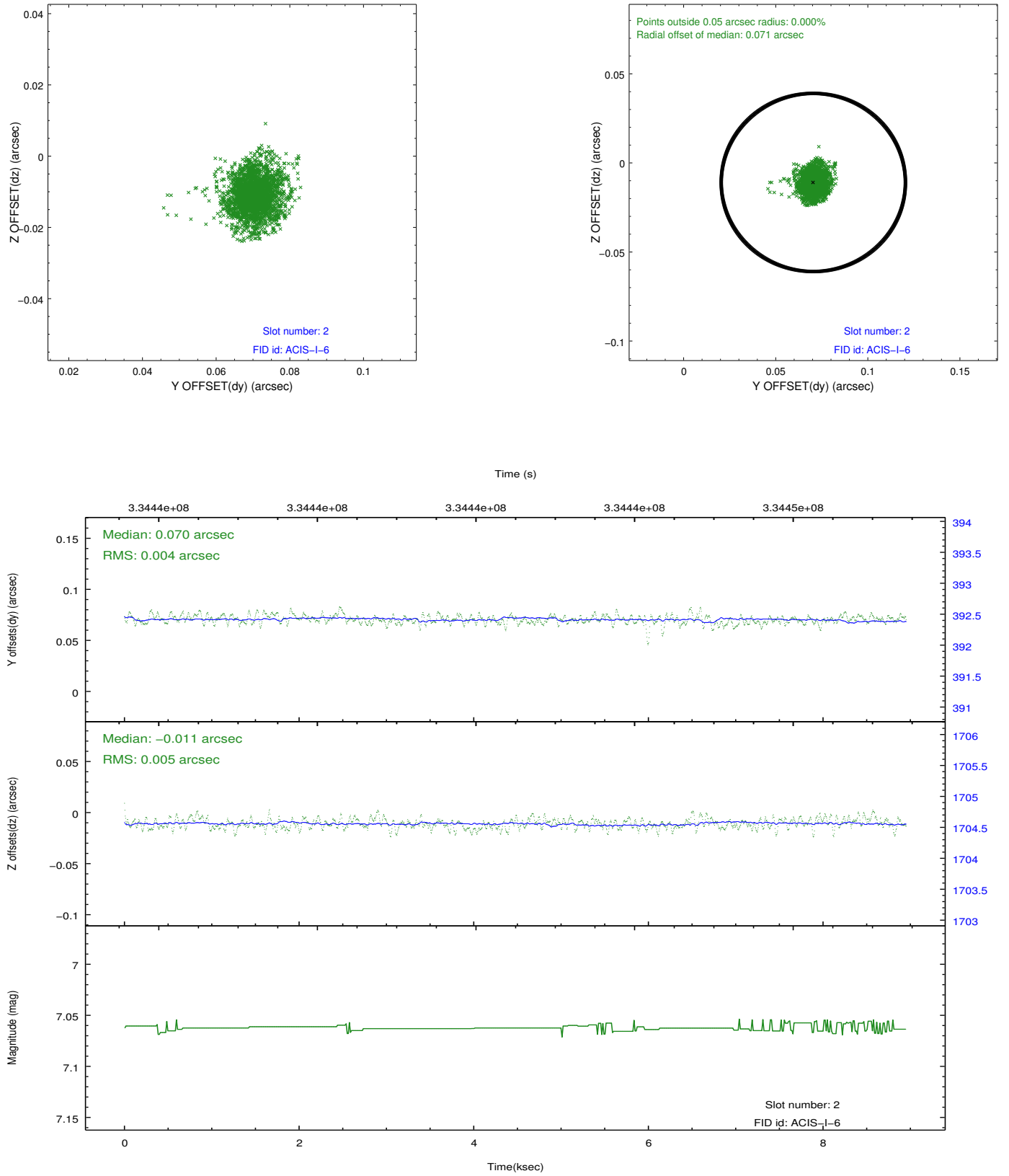
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.05.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.94965906 |

A.2 Comments