

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9926 - L2 Version 2
Chandra X-Ray Center

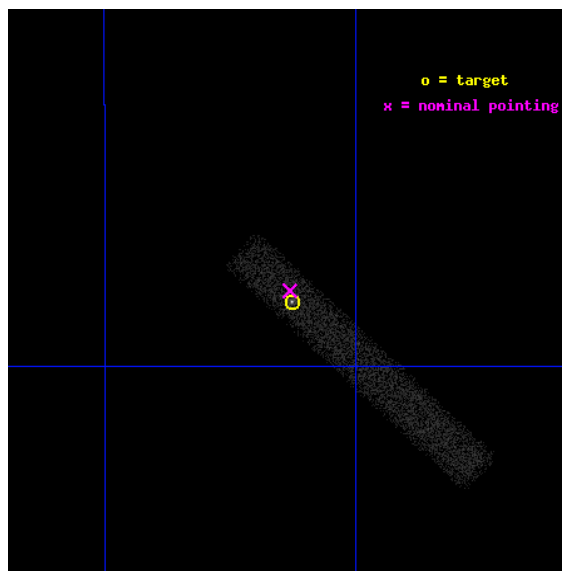
L2 Processing Date : May 24 2012

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1 Front

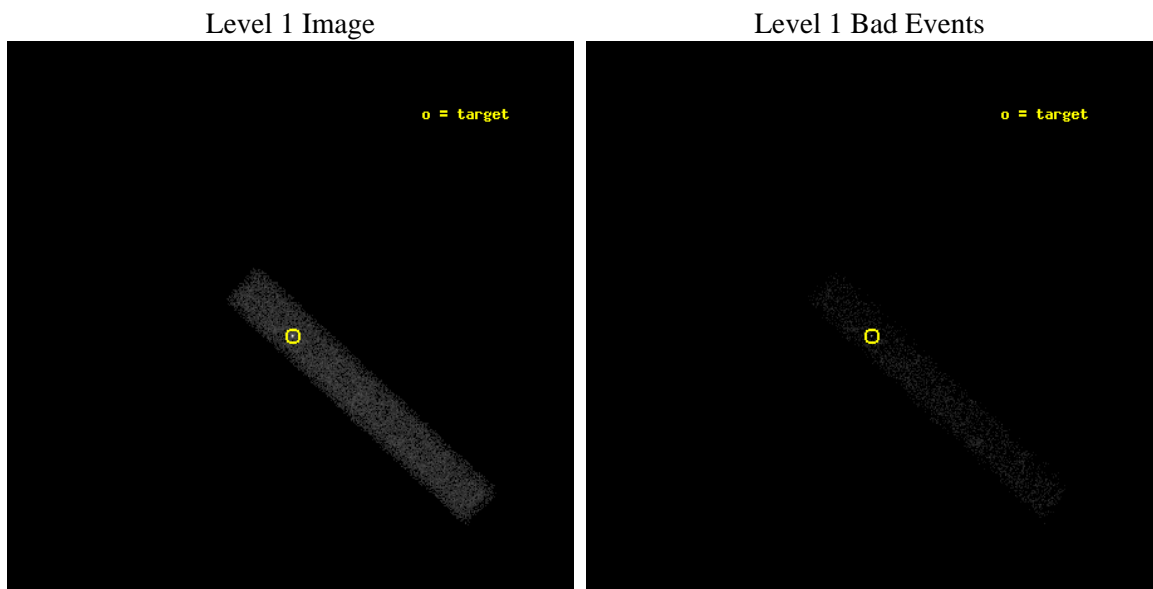
| | | |
|----------|---|---|
| seq_num | 200542 | Sequence number |
| obs_id | 9926 | Observation id |
| title | Anomalous Adara: The Spatial and Spectral Properties of Extended X-Ray Emission | Proposal title |
| observer | Dr. David Huenemoerder | Principal investigator |
| object | Adara | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 104.65625 | Observer's specified target RA [deg] |
| dec_targ | -28.972083 | Observer's specified target Dec [deg] |
| ra_nom | 104.65765777067 | Nominal RA [deg] |
| dec_nom | -28.967395284444 | Nominal Dec [deg] |
| roll_nom | 42.799116064991 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 10181.599393129 | Sum of GTIs [s] |
| livetime | 9234.1732206869 | Livetime [s] |
| ontime7 | 10181.599393129 | Sum of GTIs [s] |
| l2events | 13255 | Number of level 2 events |



2 OBI

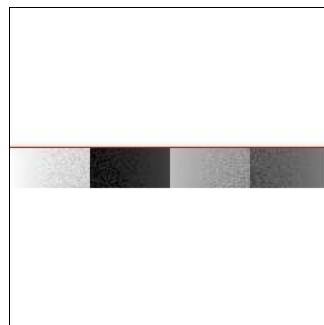
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 10181.599393129 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime7 | 10181.599393129 | Sum of GTIs [s] |
| date | 2012-05-24T16:16:16 | Date and time of file creation | l1events | 27354 | Number of level 1 events |
| revision | 2 | Processing version of data | | | |

2.1.4 Events

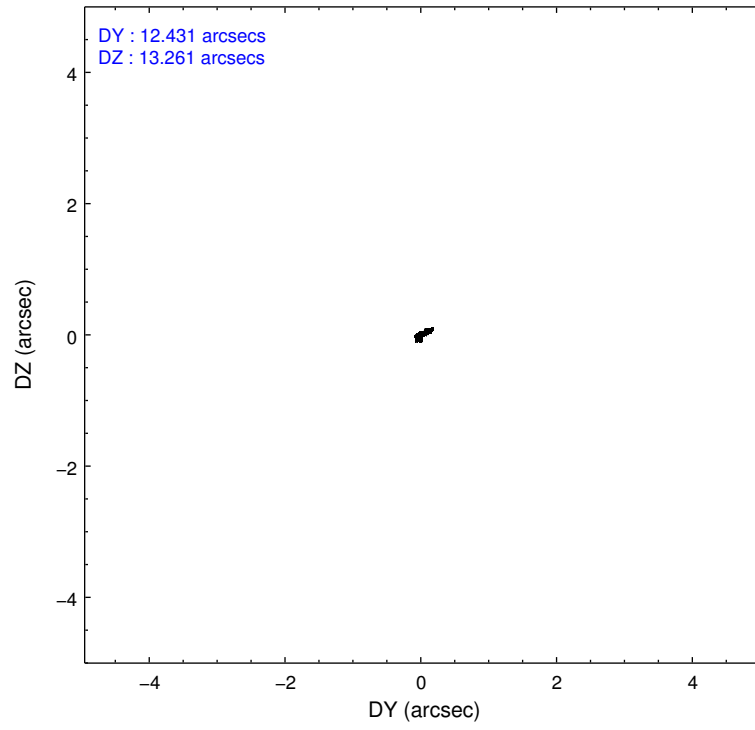
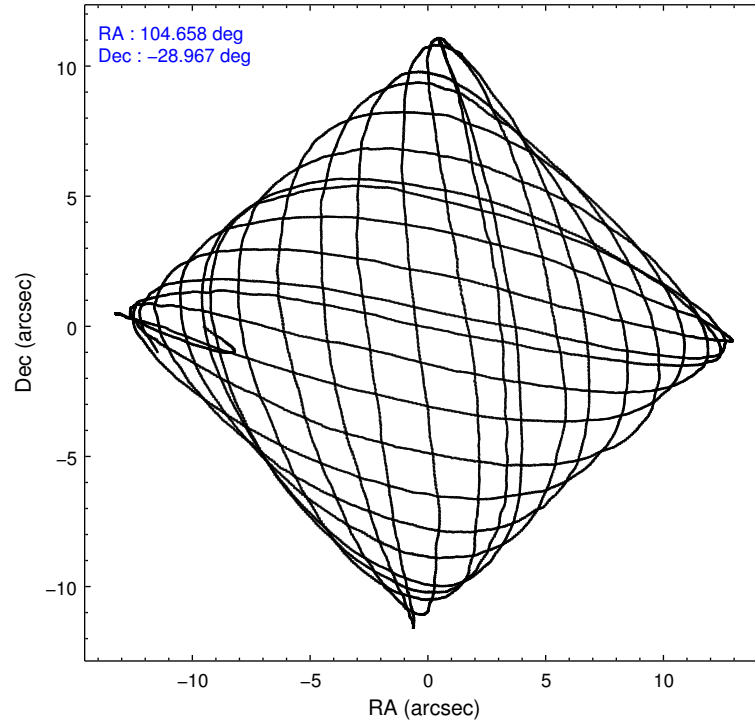
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 27354 |
| rejected events | 13771 |
| rejected % | 50% |

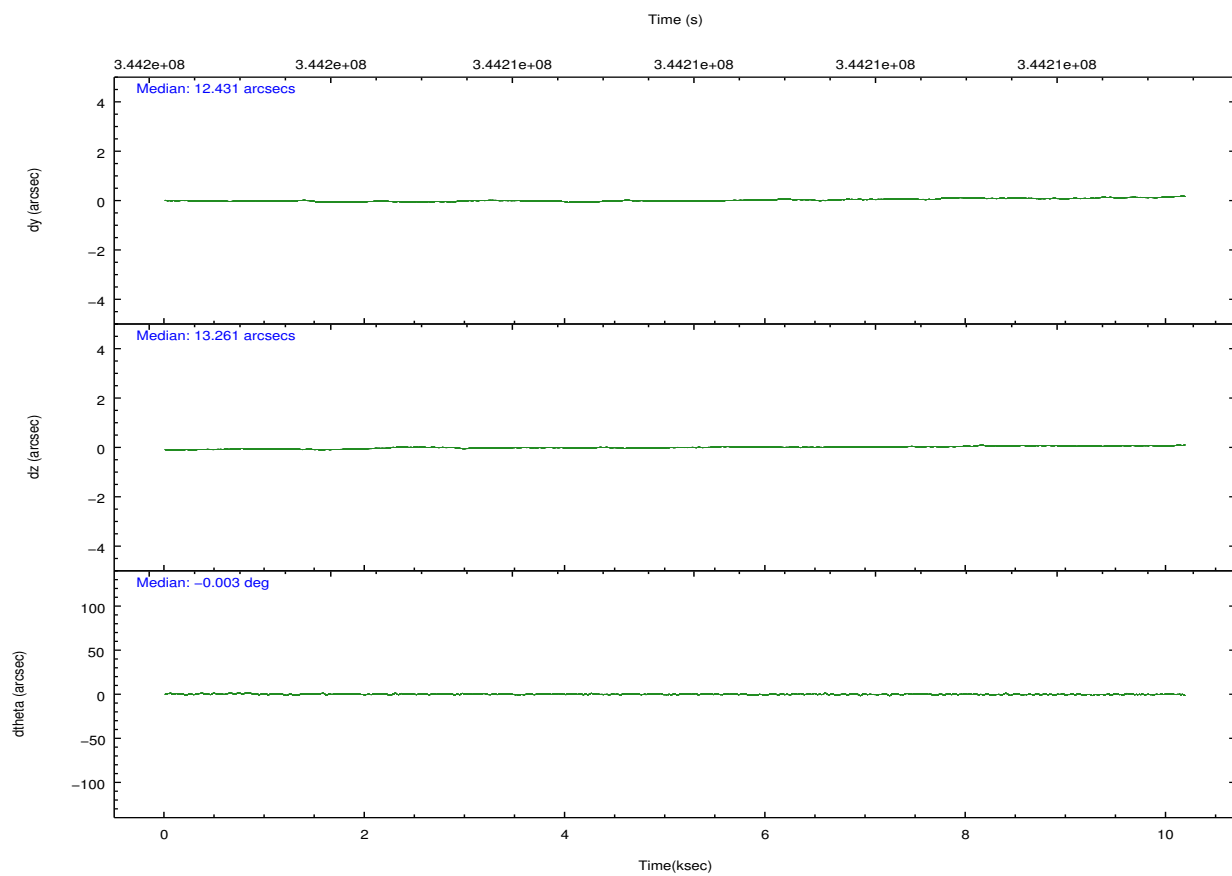
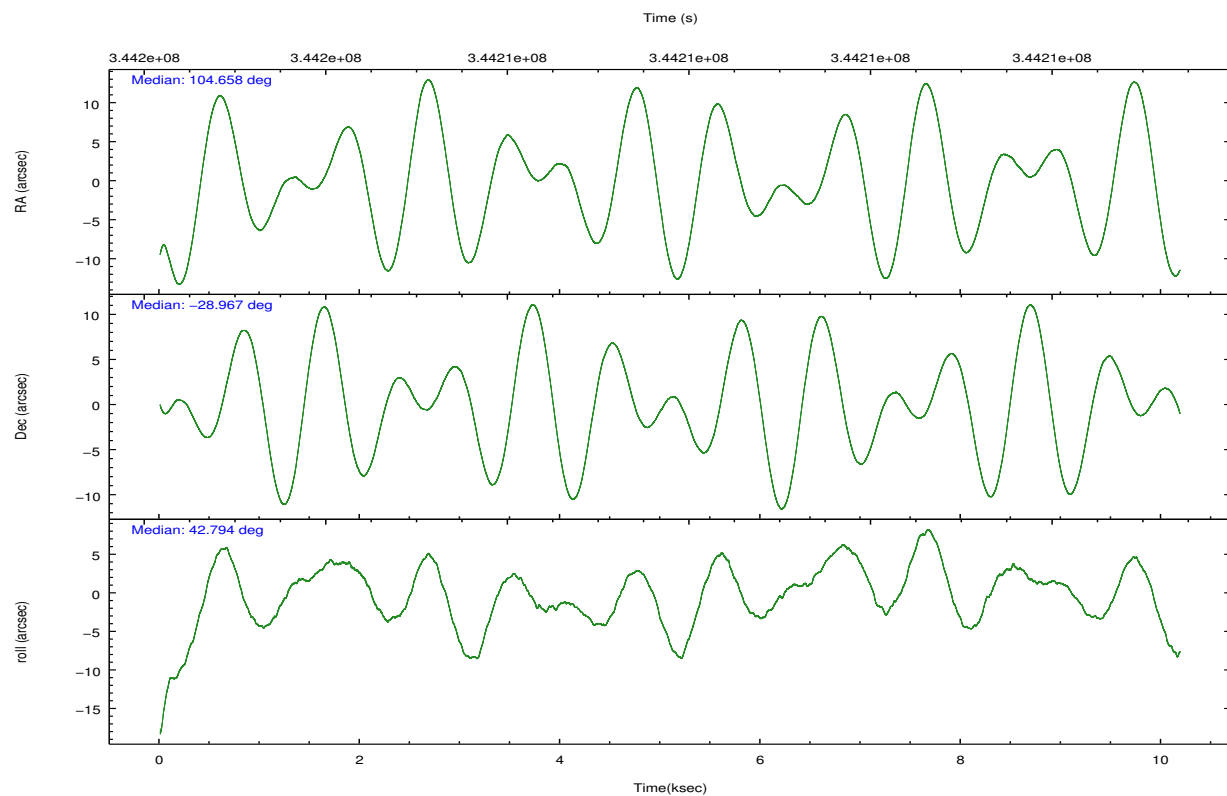
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 2927 |
| | 10% |
| grade 1 events | 52 |
| | 0% |
| grade 2 events | 3266 |
| | 11% |
| grade 3 events | 1799 |
| | 6% |
| grade 4 events | 1707 |
| | 6% |
| grade 5 events | 2285 |
| | 8% |
| grade 6 events | 5311 |
| | 19% |
| grade 7 events | 10007 |
| | 36% |

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 | 104.648900 | 104.657657770674 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -28.993637 | -28.96739528444408 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 42.638245 | 42.79911606499085 | 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 | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 344202882.184000 | 344201186.18915 | | | |
| Observation start date | 2008-11-27T19:53:37 | 2008-11-27T19:26:26 | | | |
| [s] Observation end time (MET) | 344212882.184000 | 344213449.80225 | | | |
| Observation end date | 2008-11-27T22:40:17 | 2008-11-27T22:50:49 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



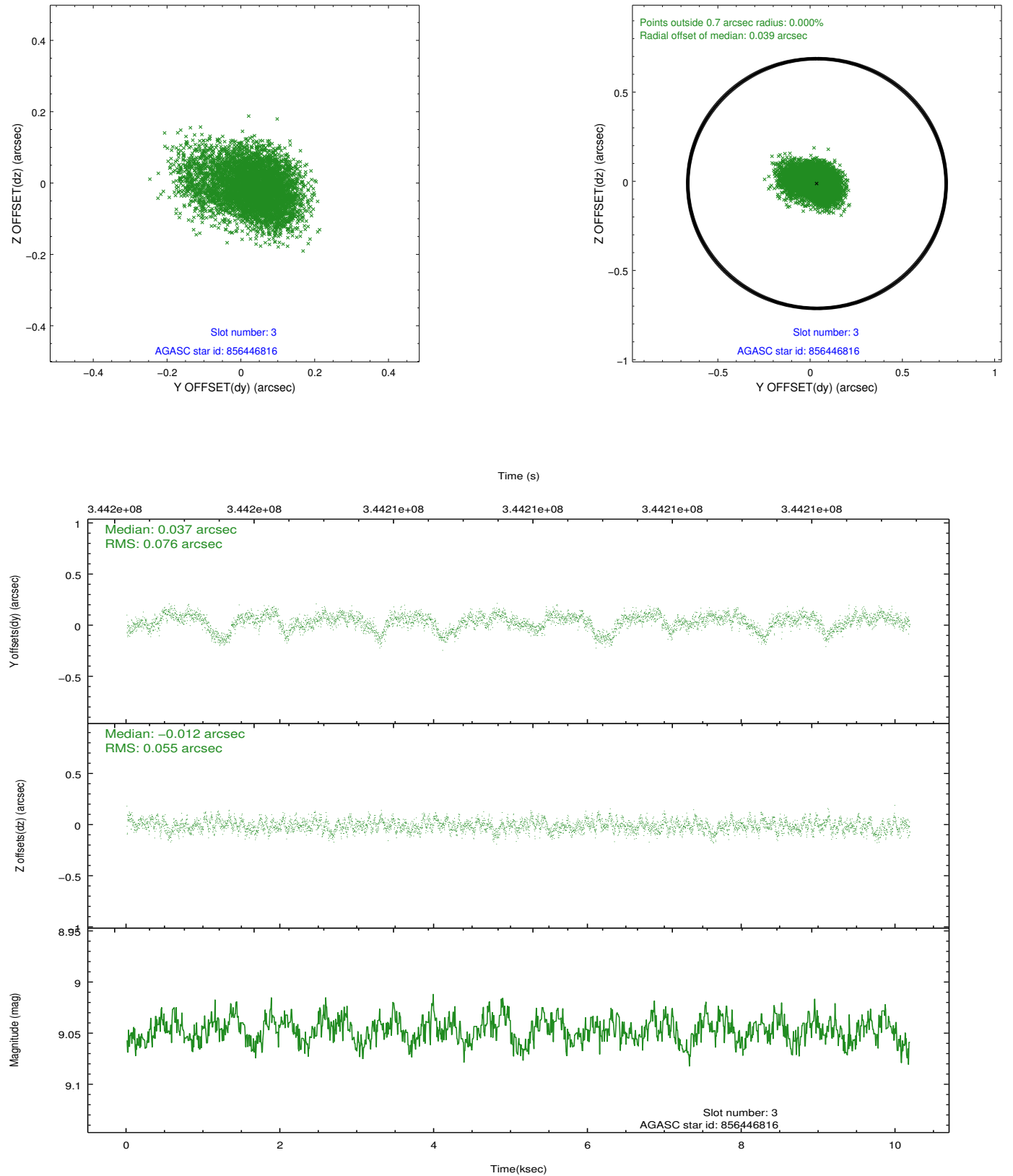


Slot Statistics

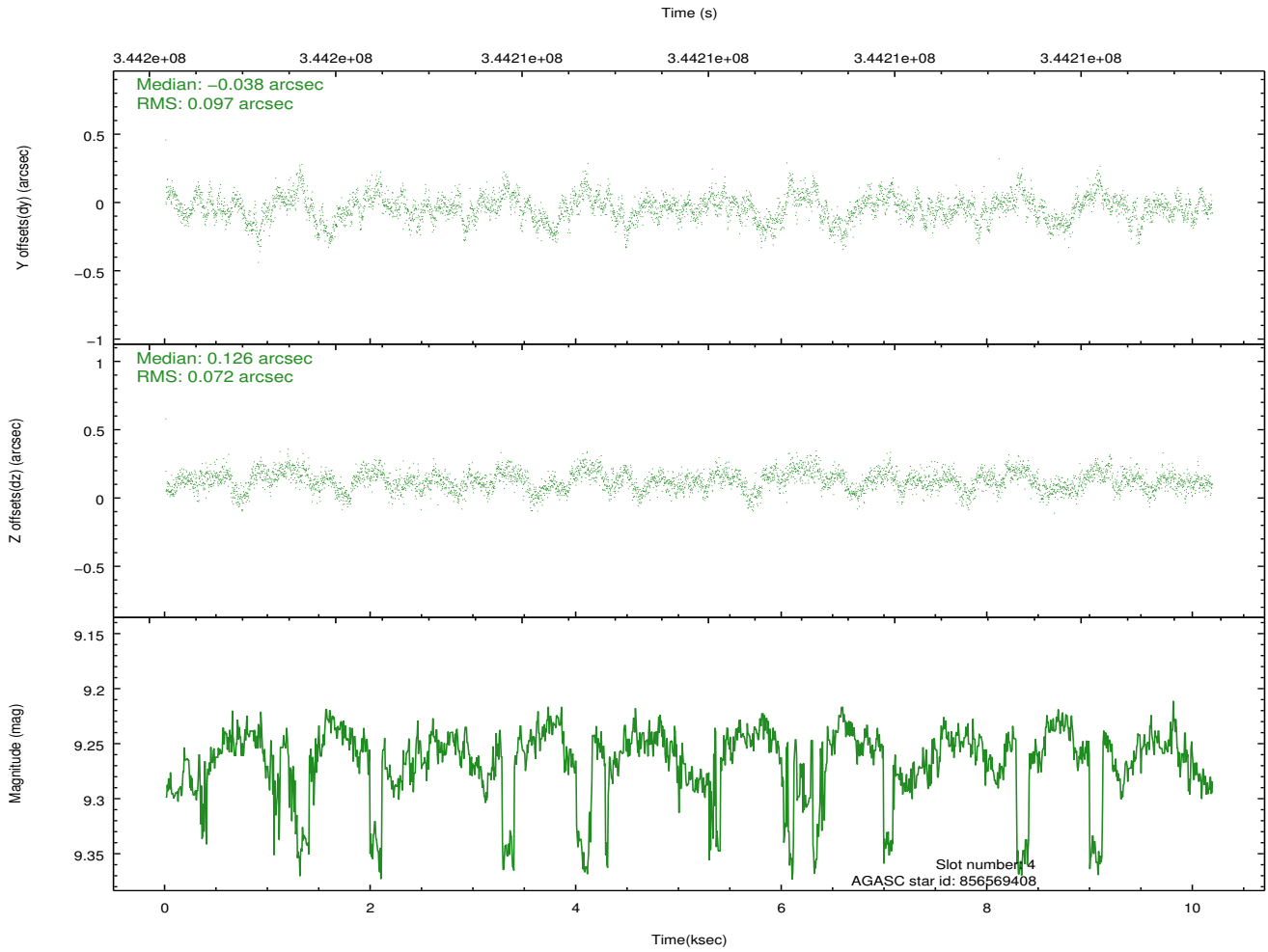
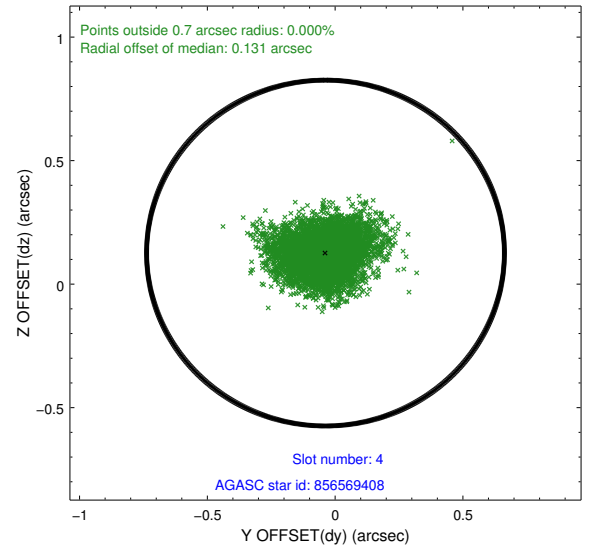
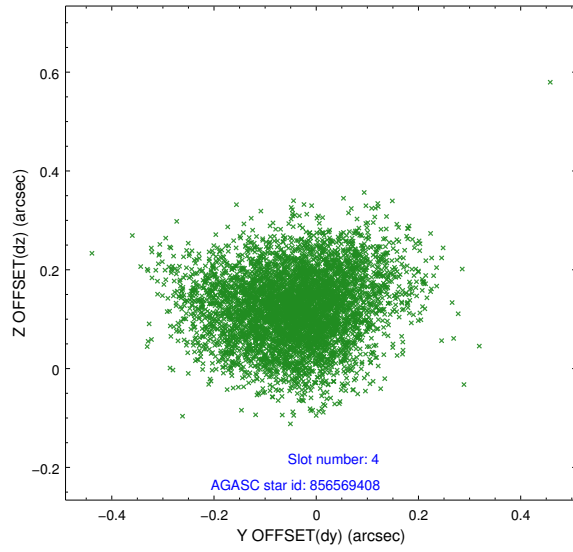
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-1 | 7.02 | 2484 | 0.051 | -0.003 | 0.007 | 0.011 | 0.000000 | 0.000000 | 930.67 | -1730.20 |
| 1 | FID | ACIS-S-2 | 6.93 | 2483 | -0.095 | -0.020 | 0.007 | 0.012 | 0.000000 | 0.000000 | -765.09 | -1735.25 |
| 2 | FID | ACIS-S-4 | 7.01 | 2484 | 0.019 | 0.028 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2147.71 | 173.41 |
| 3 | GUIDE | 856446816 | 9.05 | 4961 | 0.037 | -0.012 | 0.097 | 0.171 | 104.432788 | -29.025558 | -578.32 | 375.65 |
| 4 | GUIDE | 856569408 | 9.26 | 4945 | -0.038 | 0.126 | 0.127 | 0.212 | 105.522477 | -28.920003 | 2197.93 | -1677.31 |
| 5 | GUIDE | 856570432 | 7.55 | 4967 | -0.145 | -0.111 | 0.081 | 0.132 | 104.935630 | -28.399716 | 2116.16 | 956.70 |
| 6 | GUIDE | 856430696 | 9.41 | 4958 | 0.105 | 0.089 | 0.113 | 0.186 | 104.265782 | -29.481569 | -2073.43 | -480.37 |
| 7 | GUIDE | 856438800 | 10.01 | 4955 | 0.061 | -0.093 | 0.145 | 0.245 | 103.738882 | -28.852749 | -1774.96 | 2308.23 |

2.4 Star Slots

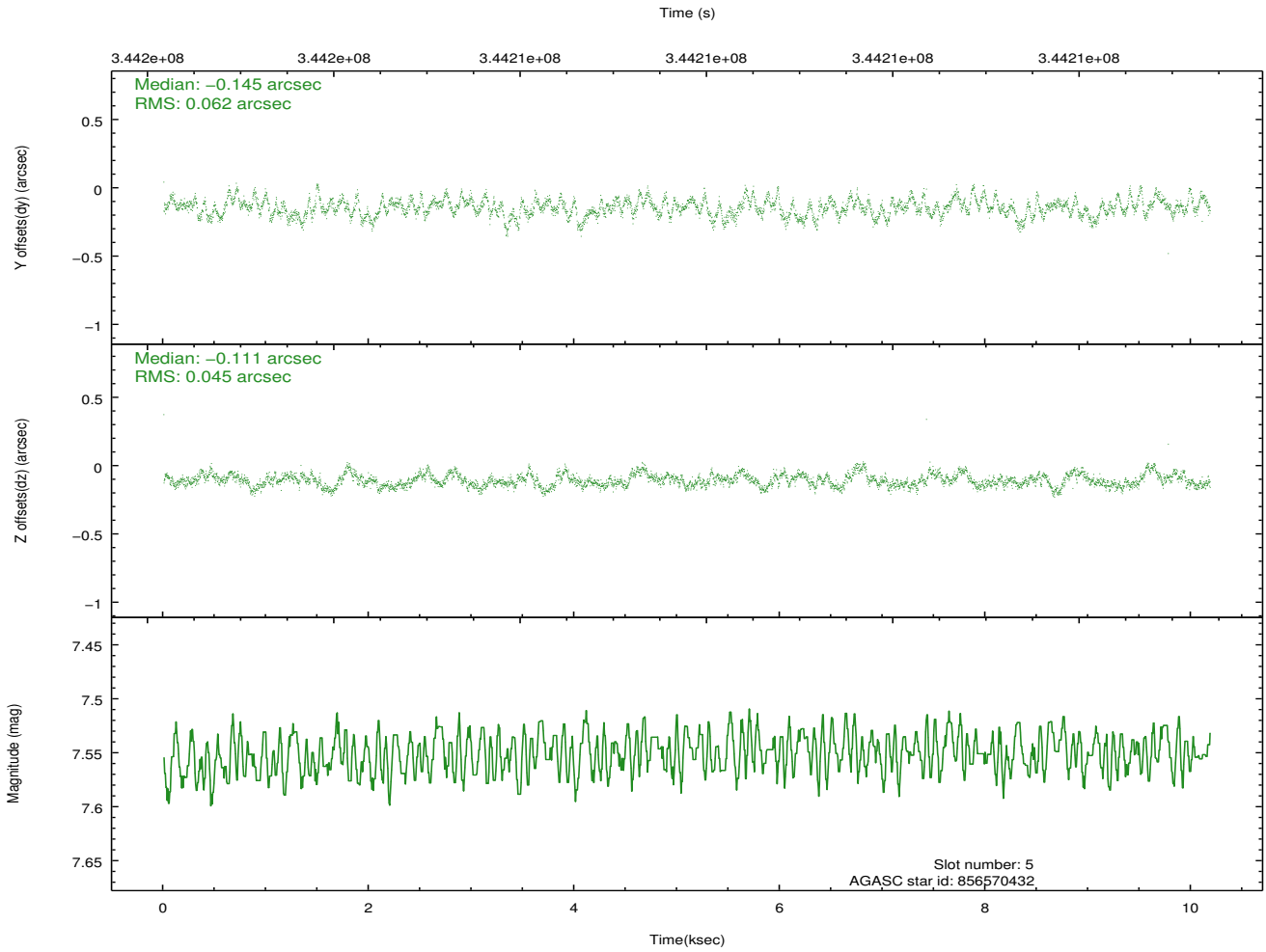
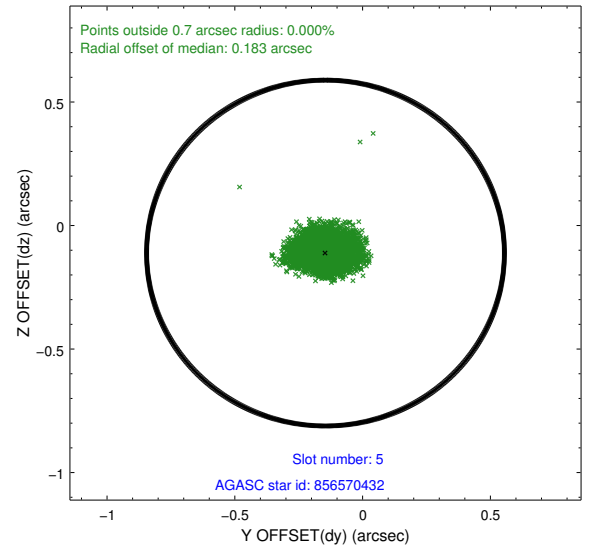
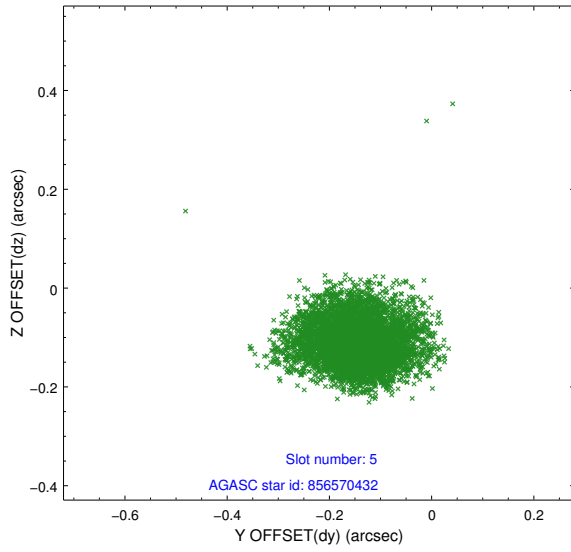
2.4.1 Slot 3



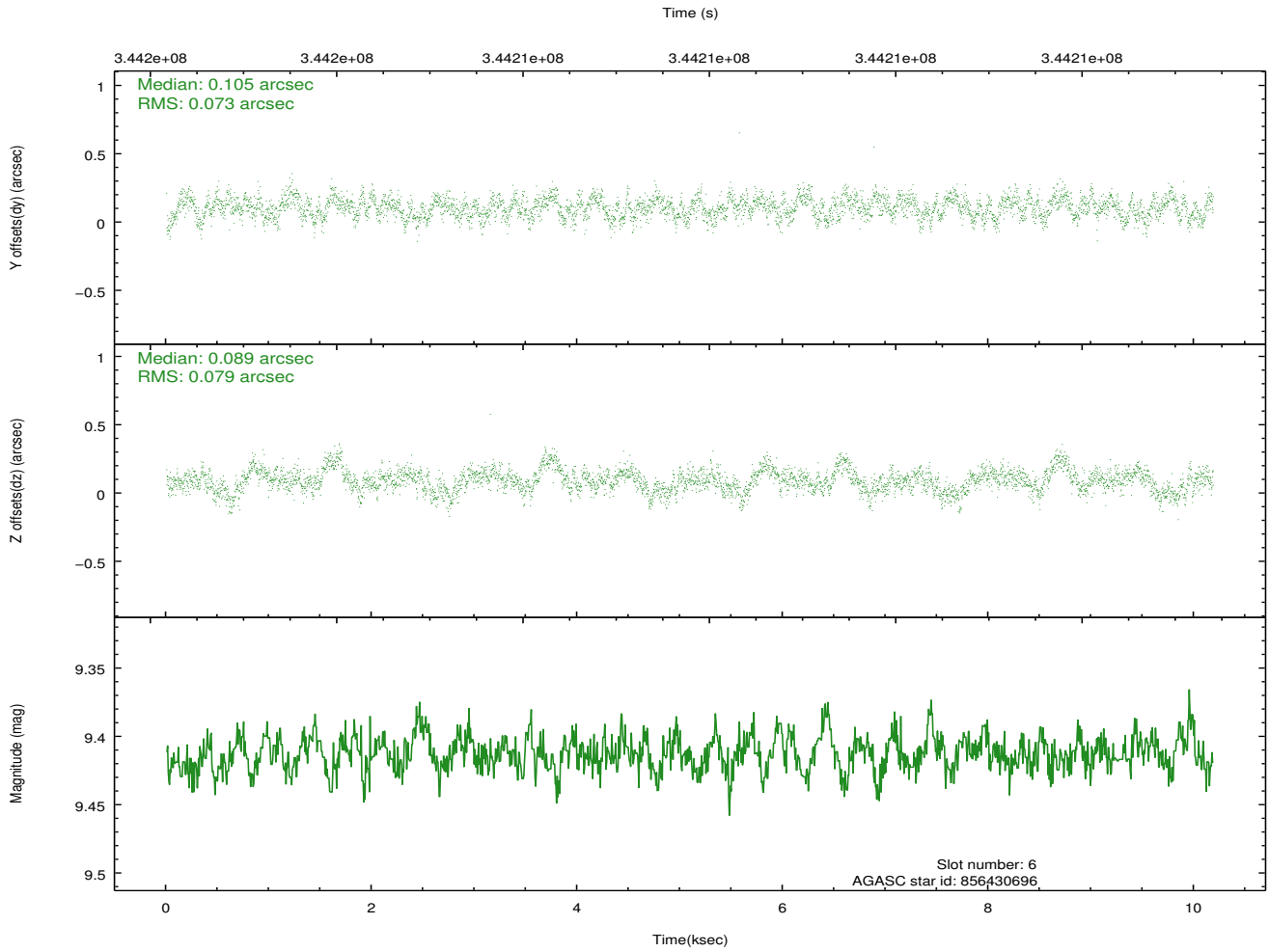
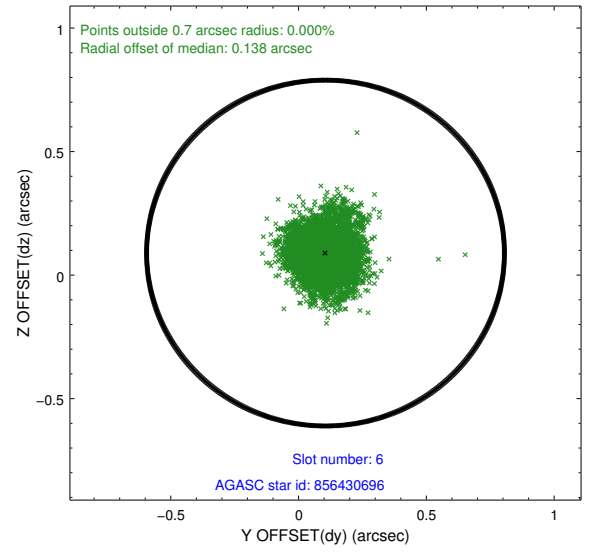
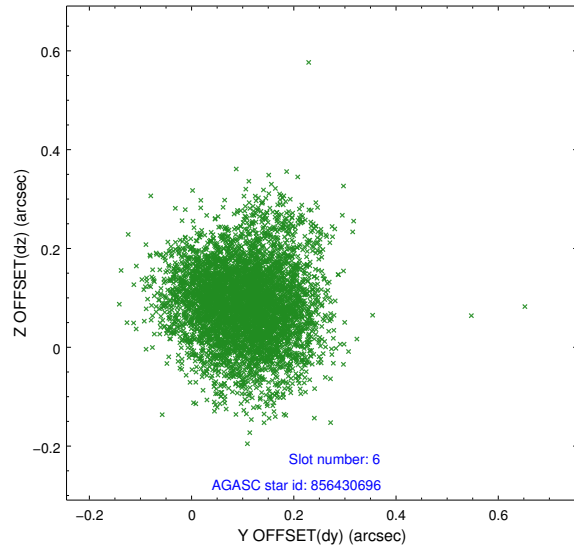
2.4.2 Slot 4



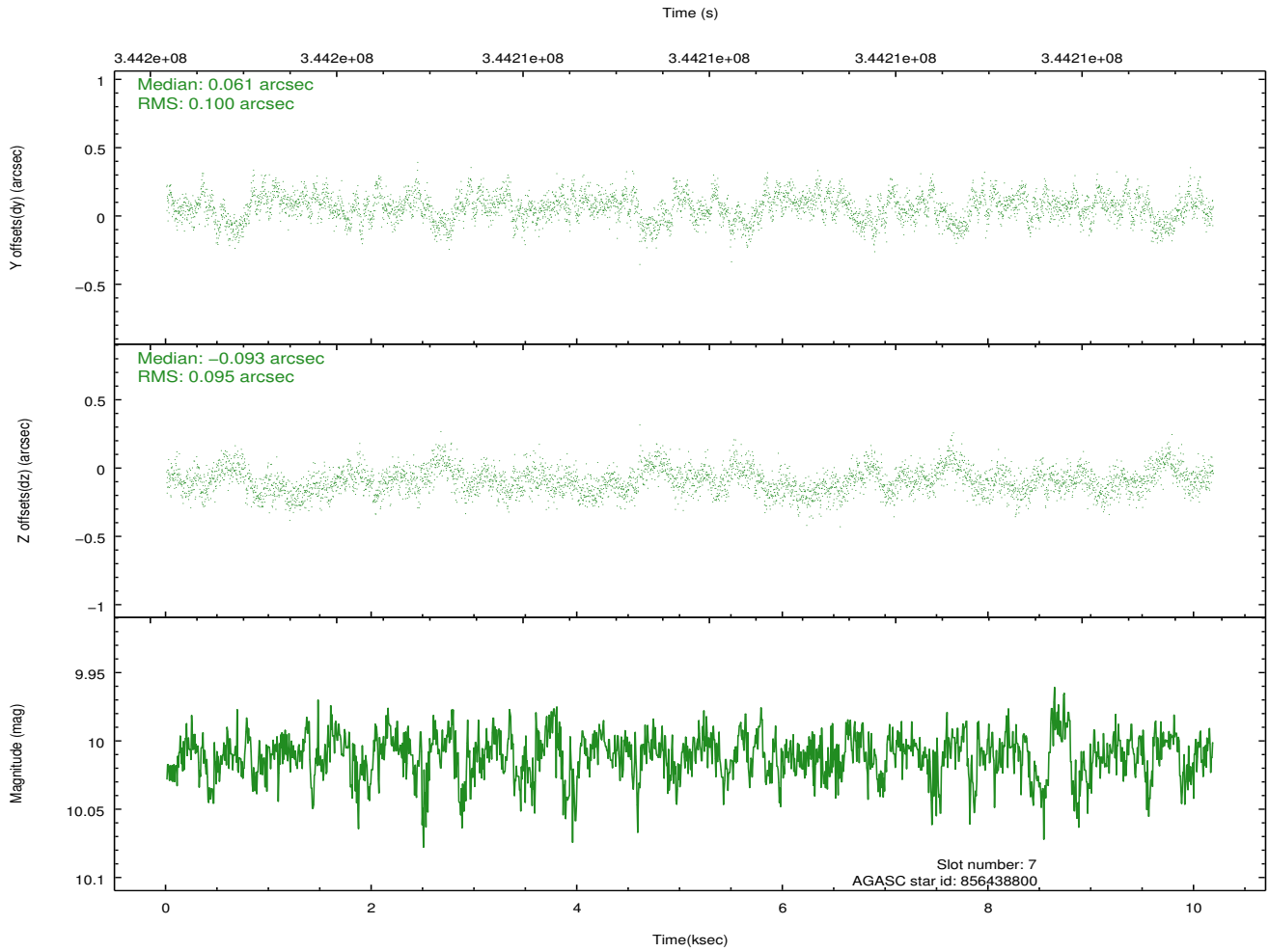
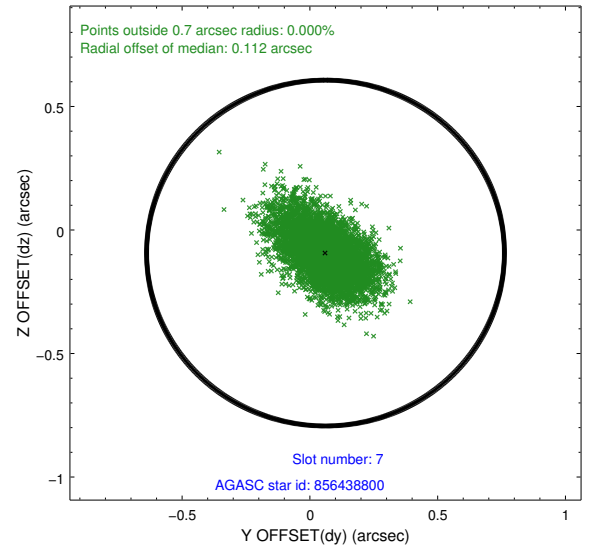
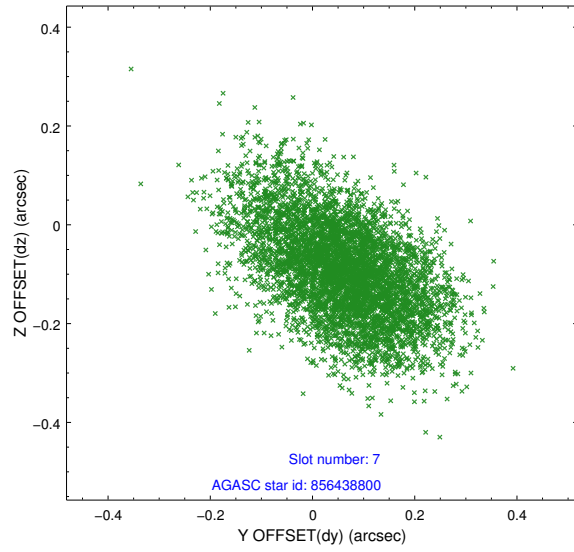
2.4.3 Slot 5



2.4.4 Slot 6

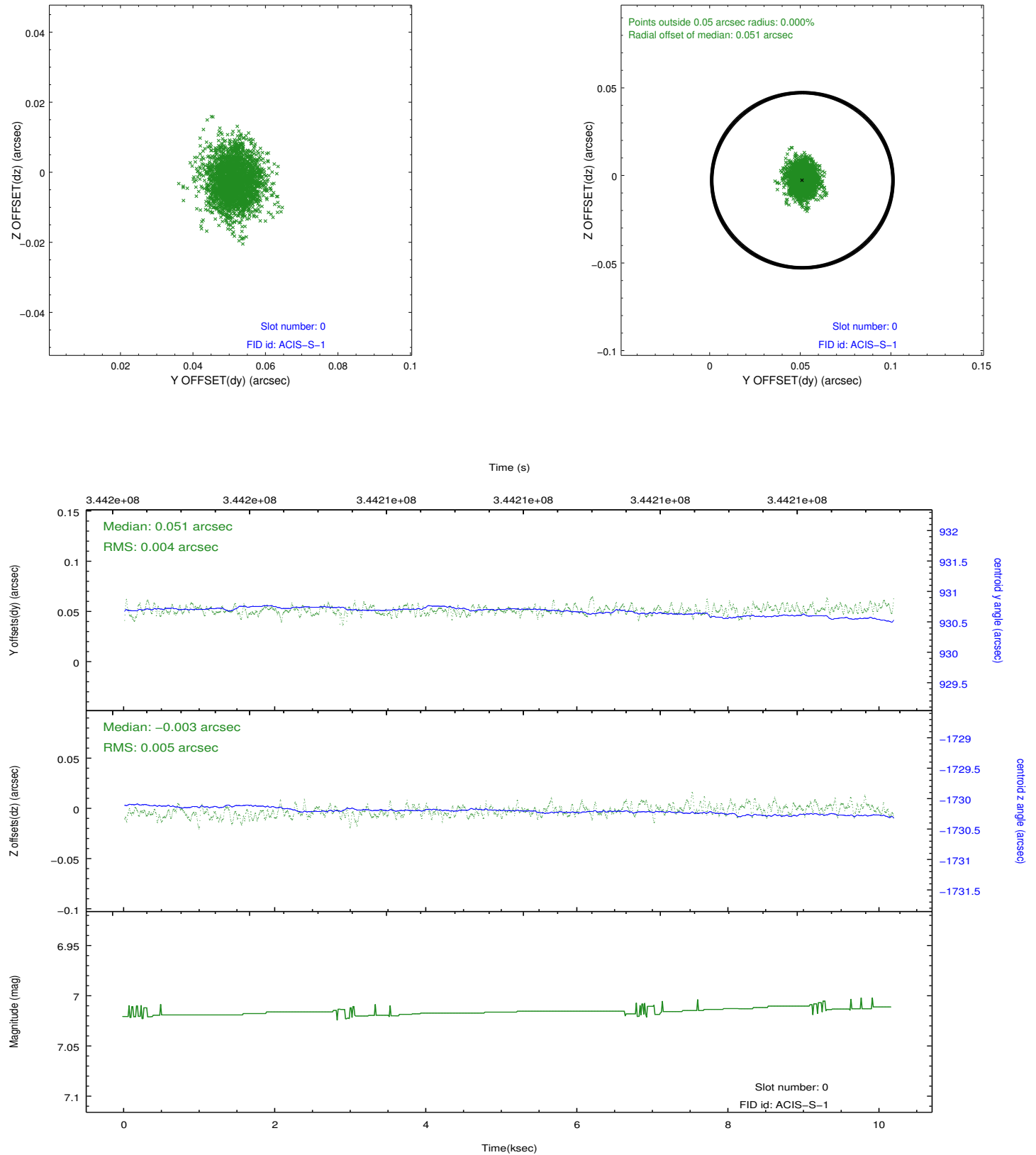


2.4.5 Slot 7

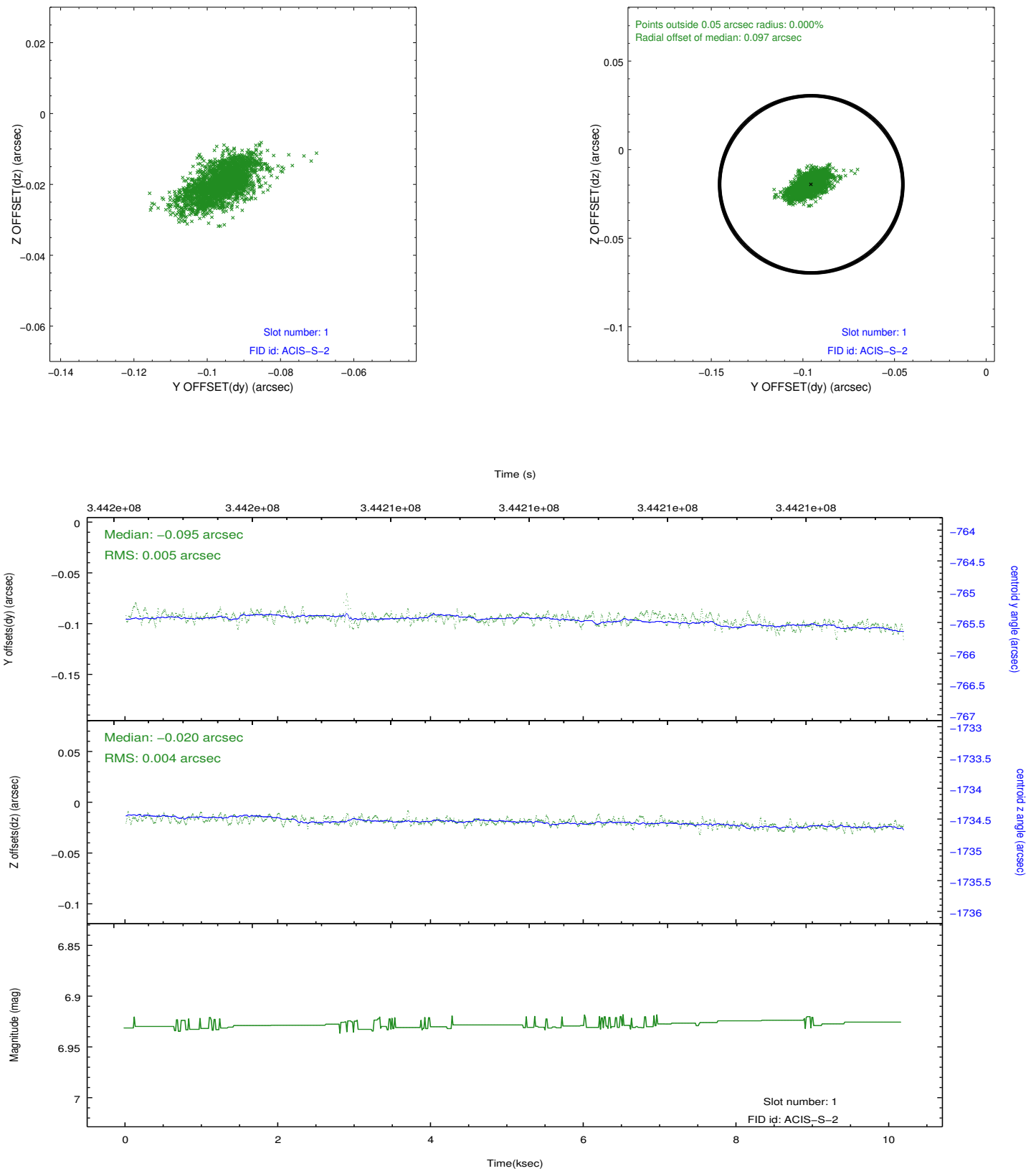


2.5 FID Slots

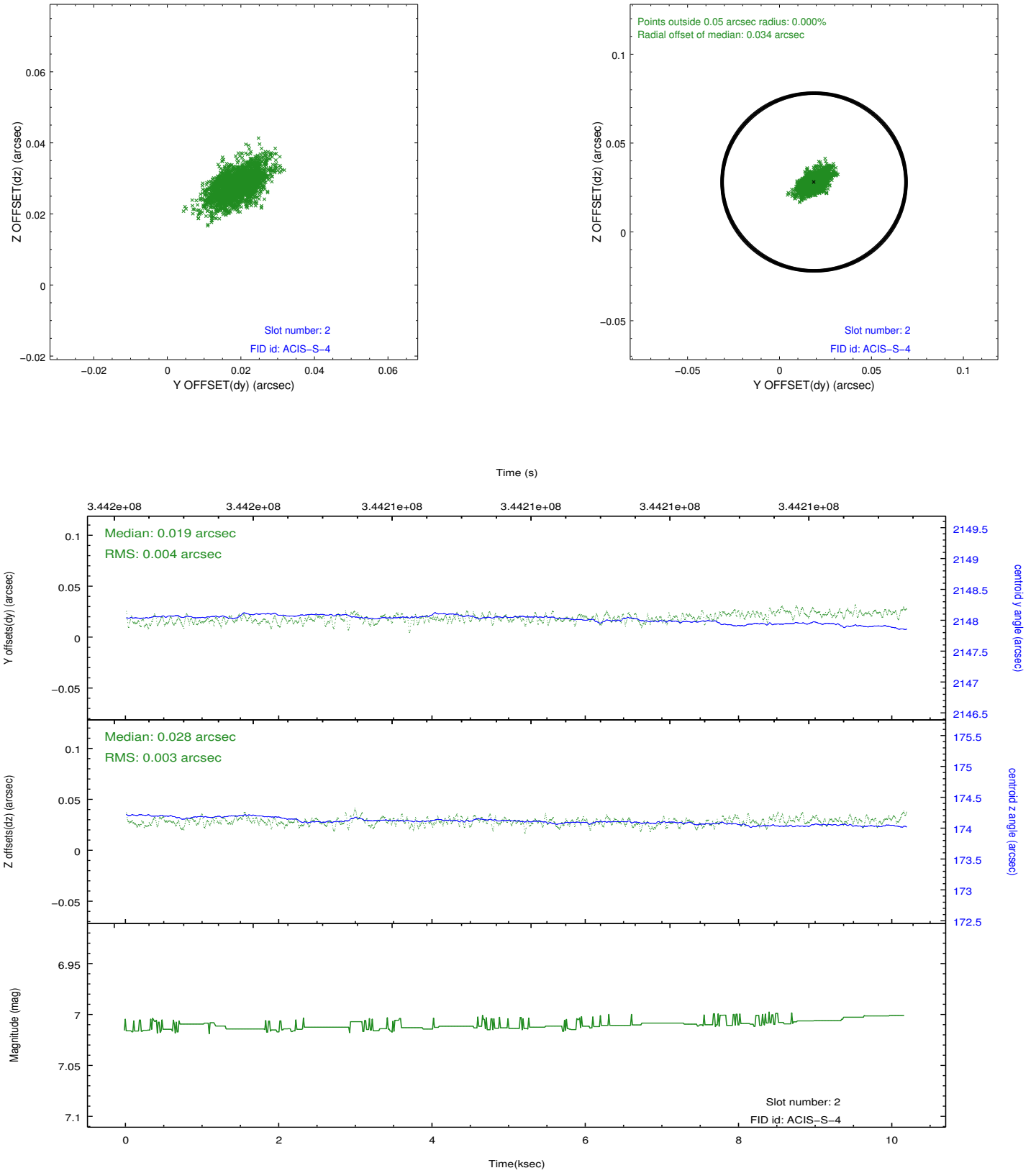
2.5.1 Slot 0



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) | 2012.05.31 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.1815993 |

A.2 Comments