

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4616 - L2 Version 3
Chandra X-Ray Center

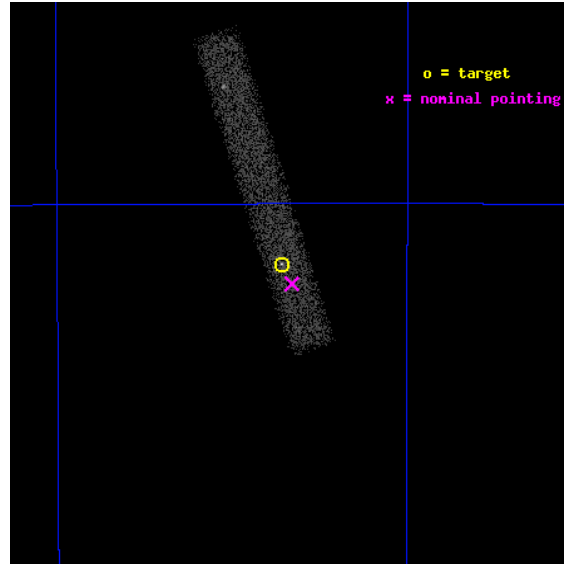
L2 Processing Date : Nov 10 2012

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1 Front

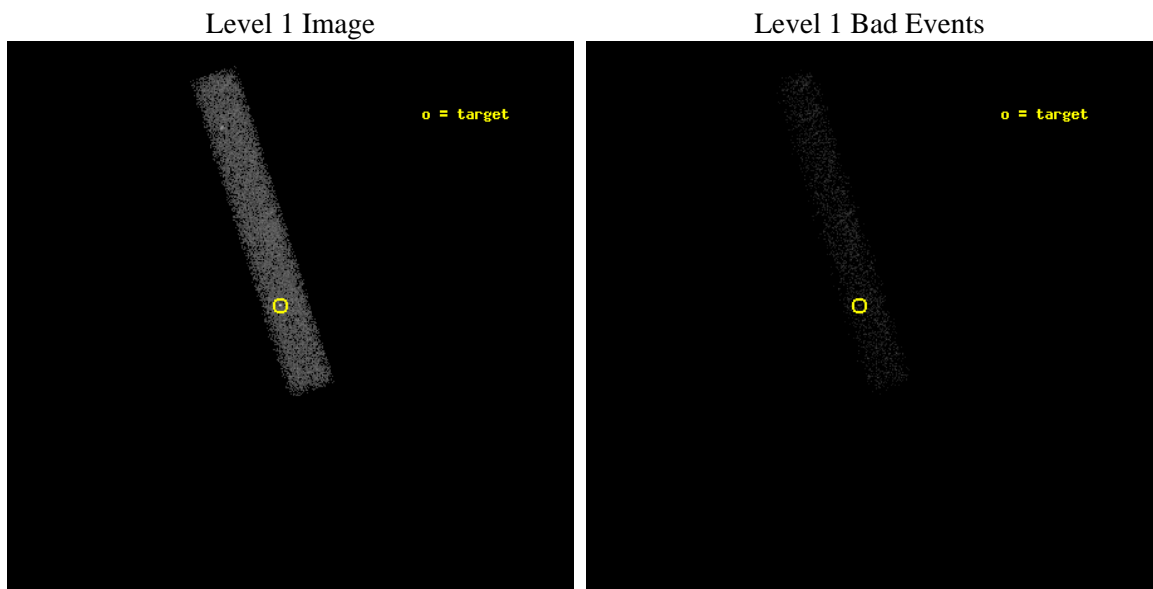
| | | |
|----------|---|---|
| seq_num | 500441 | Sequence number |
| obs_id | 4616 | Observation id |
| title | PRECISION TIMING OF A POSSIBLE NEW ANOMALOUS X-RAY PULSAR | Proposal |
| observer | Prof. Bryan Gaensler | Principal investigator |
| object | CXOU J010043.1-721134 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 15.179583 | Observer's specified target RA [deg] |
| dec_targ | -72.192722 | Observer's specified target Dec [deg] |
| ra_nom | 15.164996987616 | Nominal RA [deg] |
| dec_nom | -72.20129022327 | Nominal Dec [deg] |
| roll_nom | 252.4691104954 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 17156.000255615 | Sum of GTIs [s] |
| livetime | 15559.586663899 | Livetime [s] |
| ontime7 | 17156.000255615 | Sum of GTIs [s] |
| l2events | 9904 | Number of level 2 events |



2 OBI

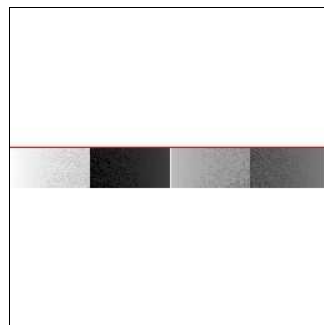
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 17000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 17156.000255615 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime7 | 17156.000255615 | Sum of GTIs [s] |
| date | 2012-11-10T22:38:34 | Date and time of file creation | l1events | 20994 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

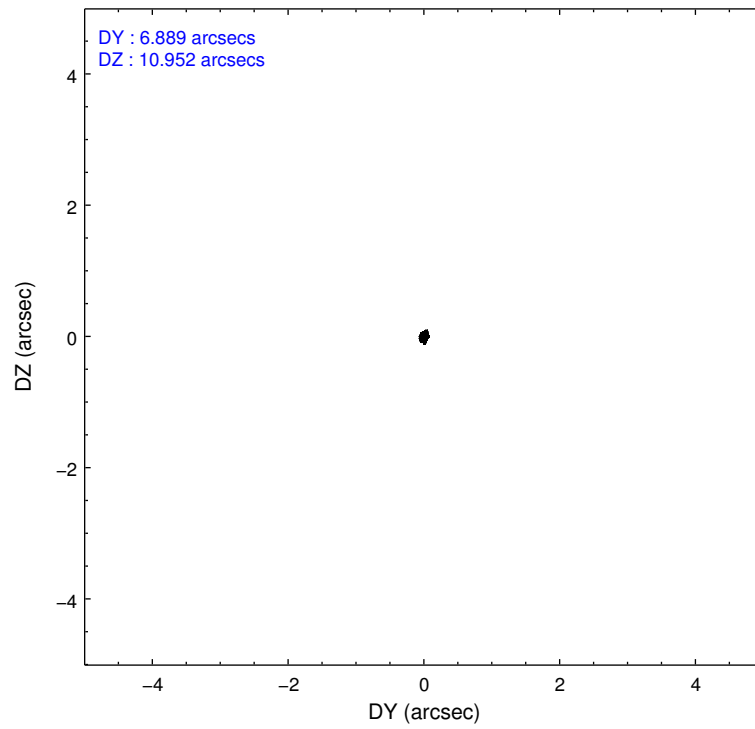
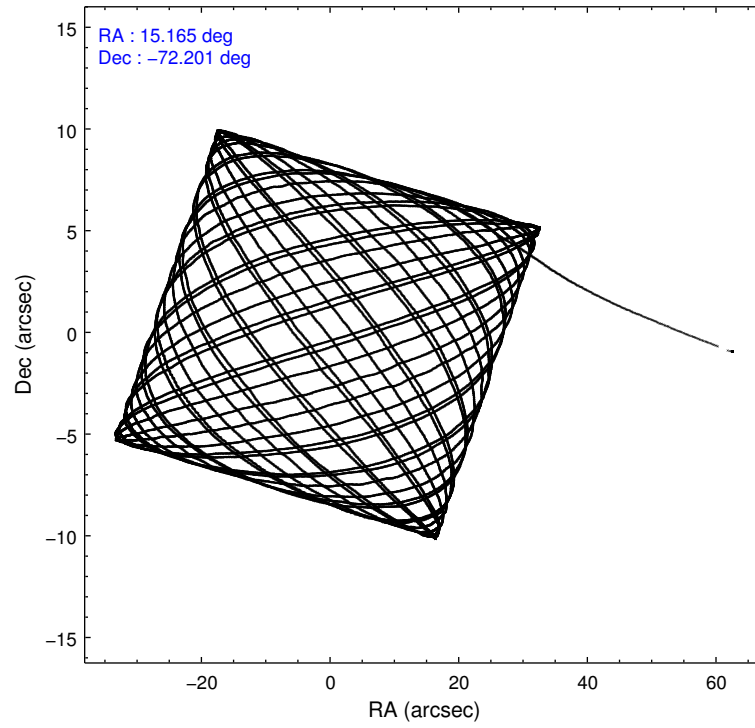
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 20994 |
| rejected events | 10709 |
| rejected % | 51% |

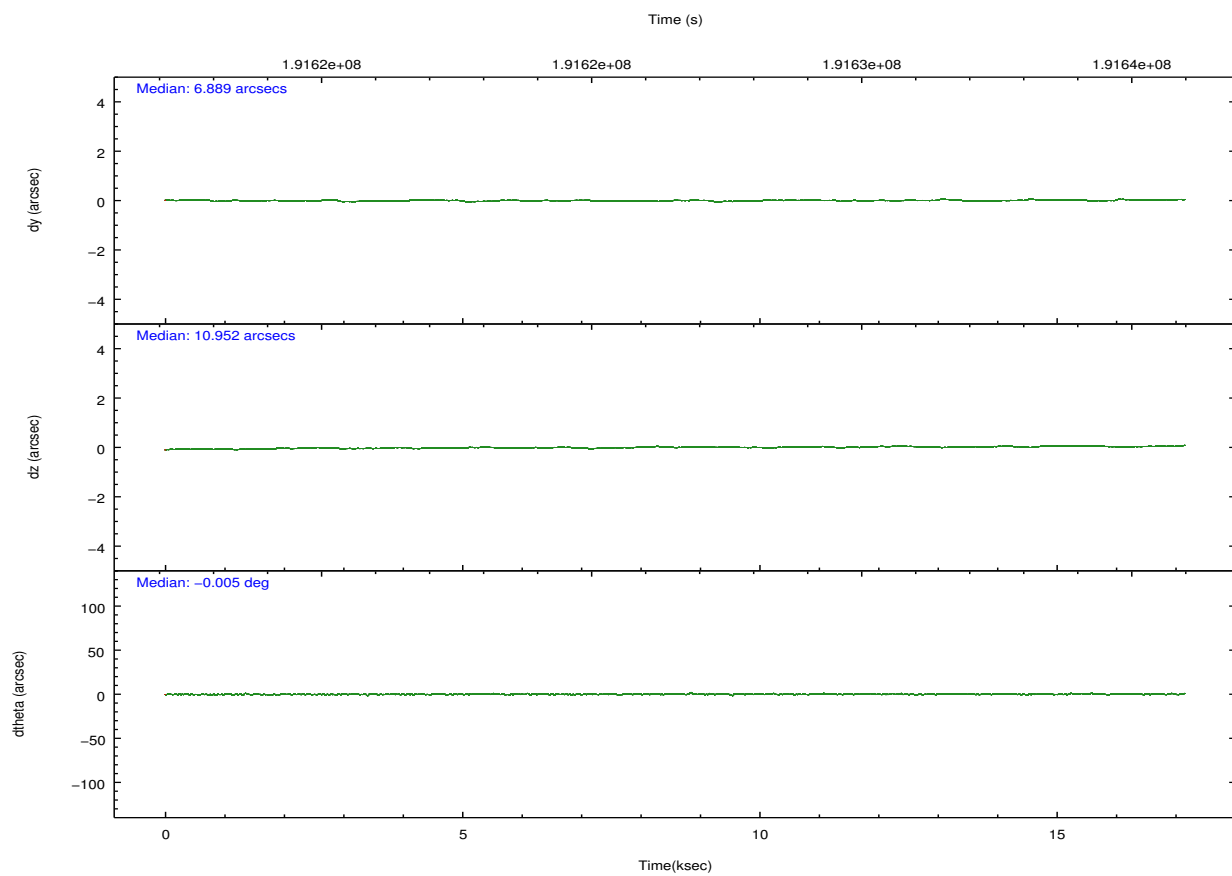
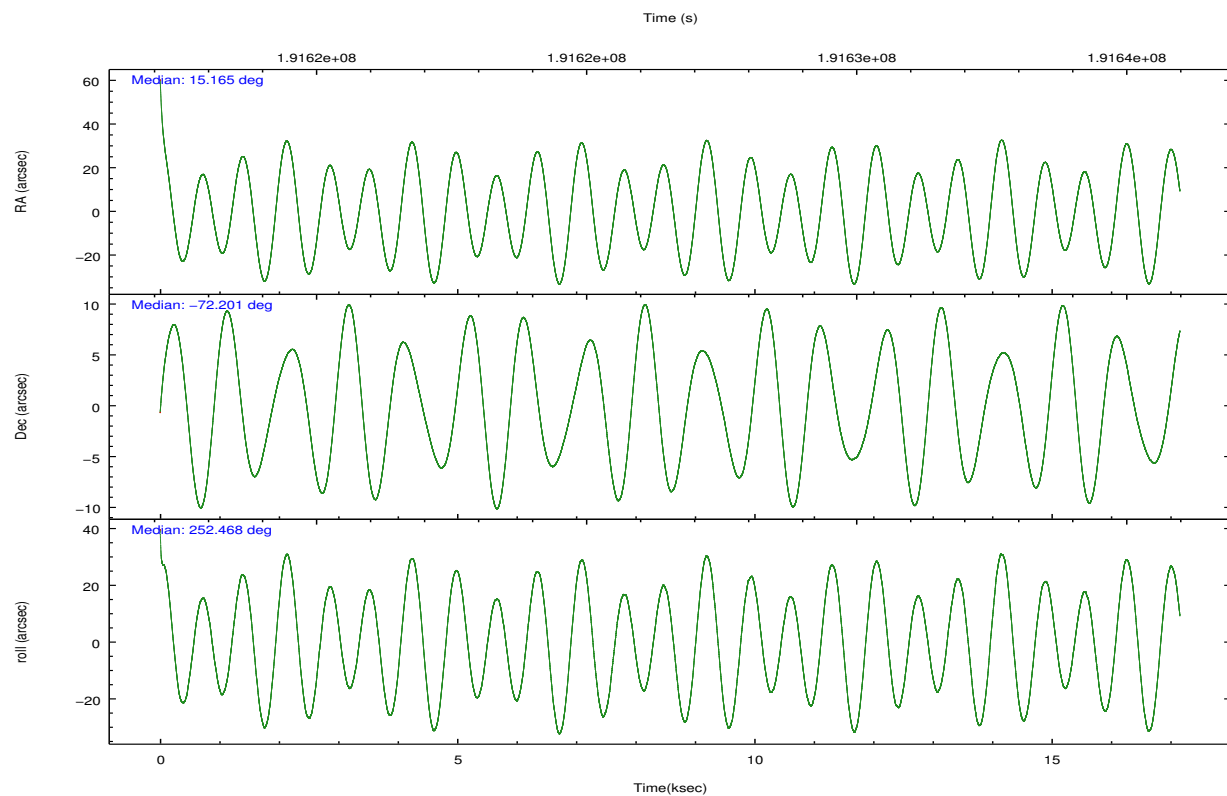
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 1497 |
| | 7% |
| grade 1 events | 28 |
| | 0% |
| grade 2 events | 2111 |
| | 10% |
| grade 3 events | 1380 |
| | 6% |
| grade 4 events | 1375 |
| | 6% |
| grade 5 events | 1744 |
| | 8% |
| grade 6 events | 4265 |
| | 20% |
| grade 7 events | 8594 |
| | 40% |

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 | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 15.144531 | 15.16499698761646 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -72.174792 | -72.20129022326958 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 252.293015 | 252.4691104953995 | 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) | 191618119.184000 | 191617137.28632 | | | |
| Observation start date | 2004-01-27T19:14:15 | 2004-01-27T18:58:57 | | | |
| [s] Observation end time (MET) | 191635119.184000 | 191636010.61215 | | | |
| Observation end date | 2004-01-27T23:57:35 | 2004-01-28T00:13:30 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



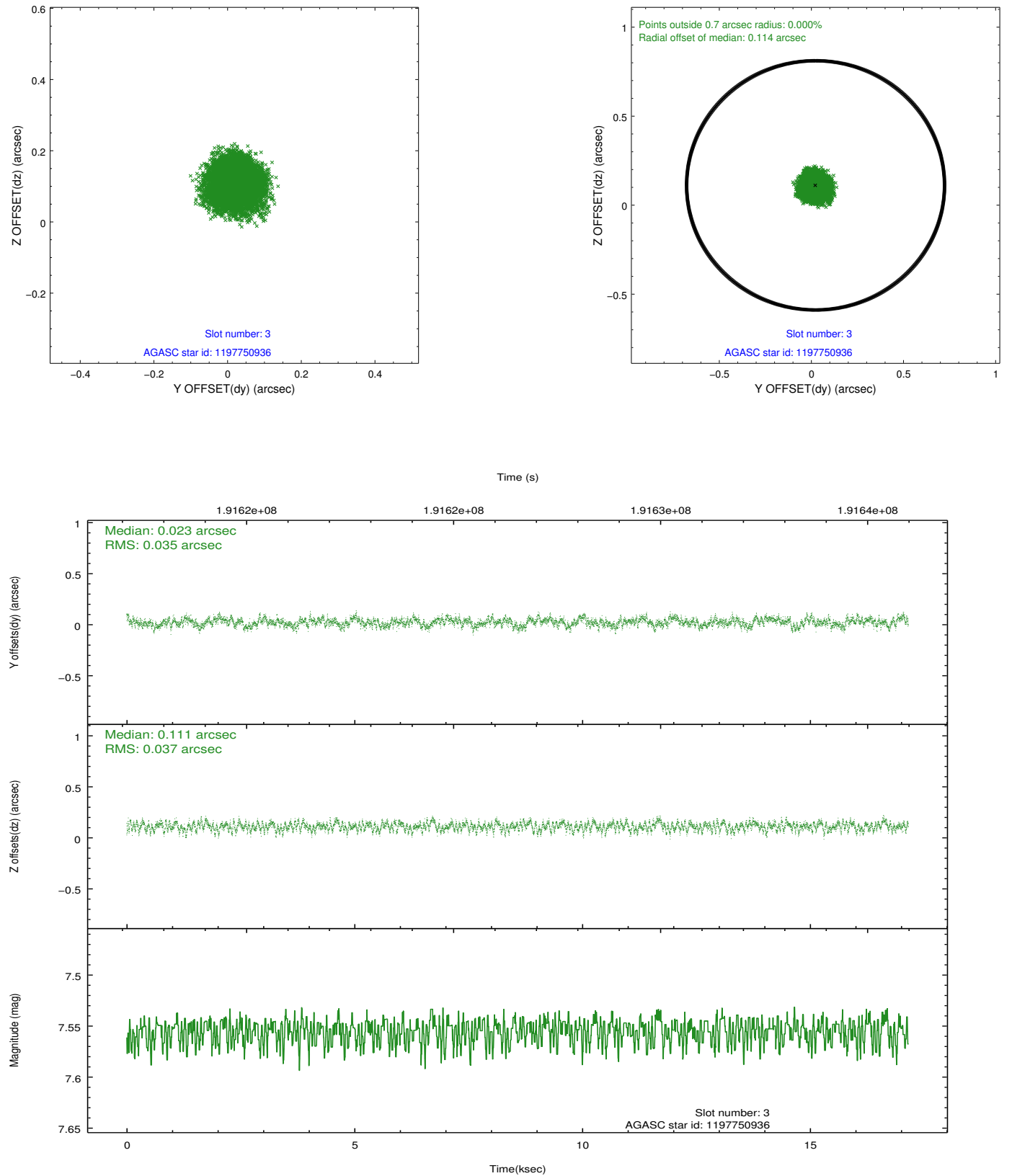


Slot Statistics

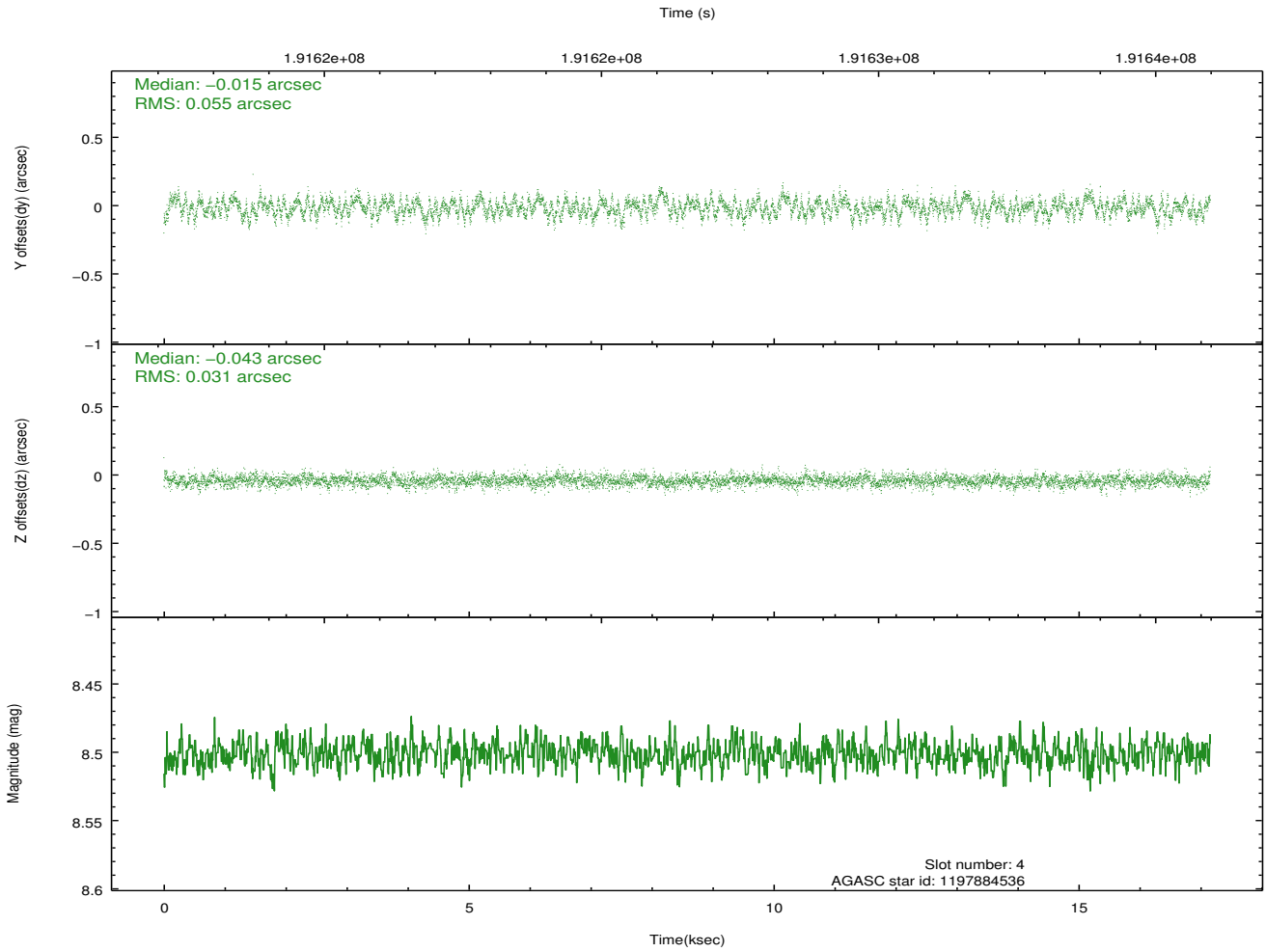
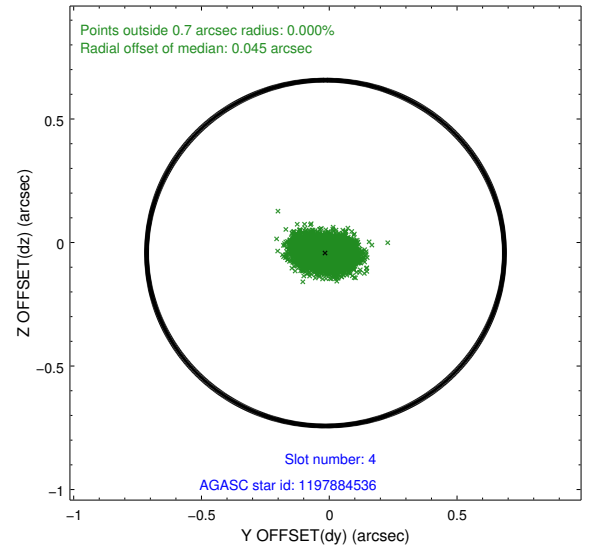
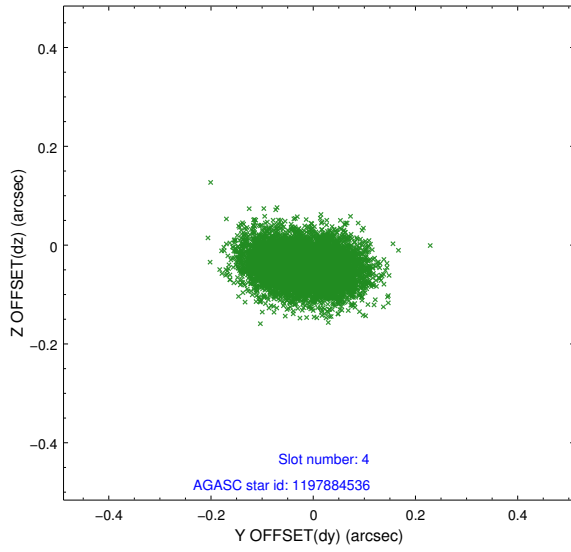
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 4184 | -0.049 | -0.016 | 0.007 | 0.011 | 0.000000 | 0.000000 | -759.65 | -1732.20 |
| 1 | FID | ACIS-S-4 | 7.20 | 4185 | 0.073 | 0.028 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2153.60 | 176.13 |
| 2 | FID | ACIS-S-5 | 7.23 | 4185 | -0.055 | -0.004 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1812.22 | 169.97 |
| 3 | GUIDE | 1197750936 | 7.55 | 8369 | 0.023 | 0.111 | 0.055 | 0.086 | 15.387940 | -71.549550 | -2227.70 | -419.99 |
| 4 | GUIDE | 1197884536 | 8.50 | 8369 | -0.015 | -0.043 | 0.066 | 0.112 | 17.160729 | -71.835289 | -1816.53 | 1794.99 |
| 5 | GUIDE | 1197884712 | 8.31 | 8369 | 0.045 | 0.045 | 0.056 | 0.088 | 16.087398 | -72.252690 | -39.83 | 1073.76 |
| 6 | GUIDE | 1197885328 | 7.23 | 8370 | 0.013 | -0.097 | 0.051 | 0.083 | 16.283090 | -71.733943 | -1891.18 | 745.22 |
| 7 | GUIDE | 1198189696 | 7.36 | 8368 | -0.067 | -0.016 | 0.049 | 0.077 | 15.223750 | -72.697522 | 1766.82 | 653.51 |

2.4 Star Slots

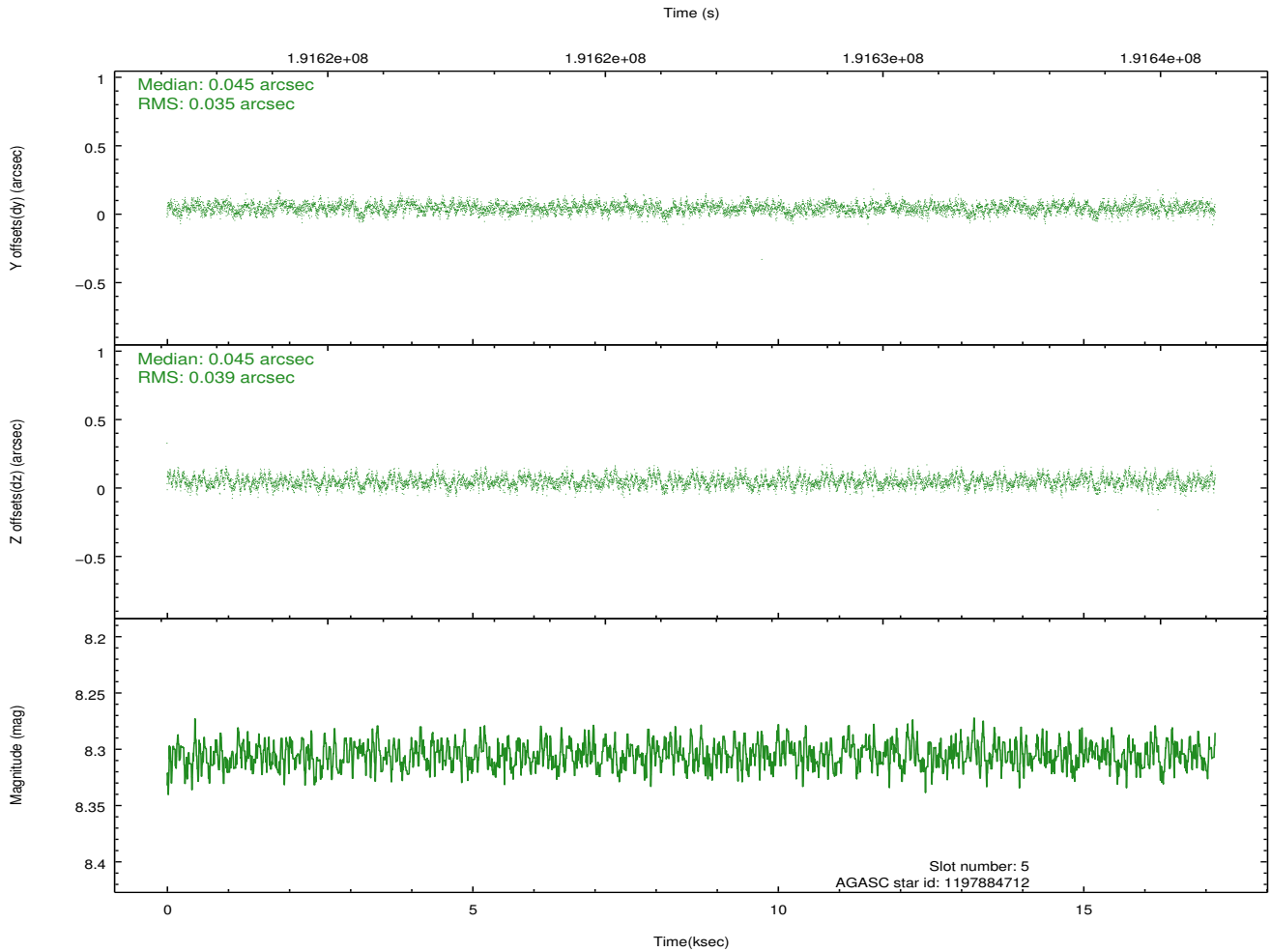
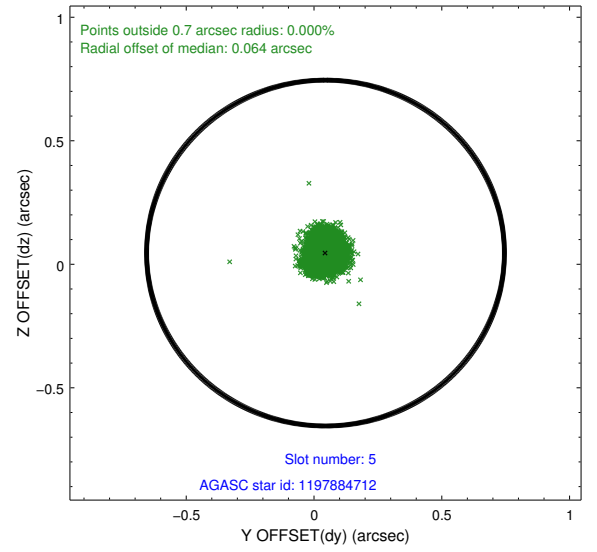
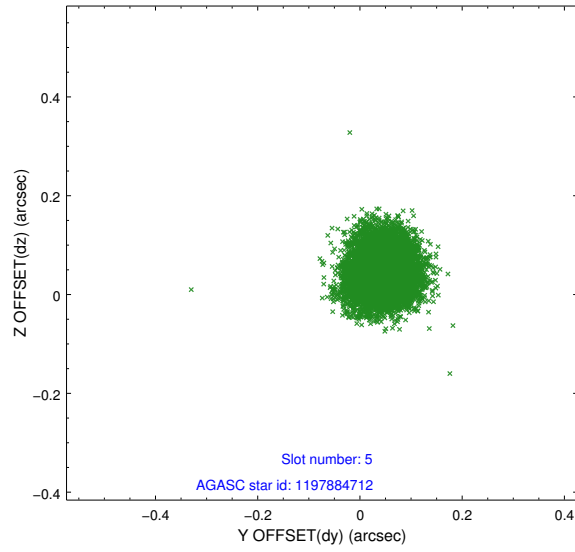
2.4.1 Slot 3



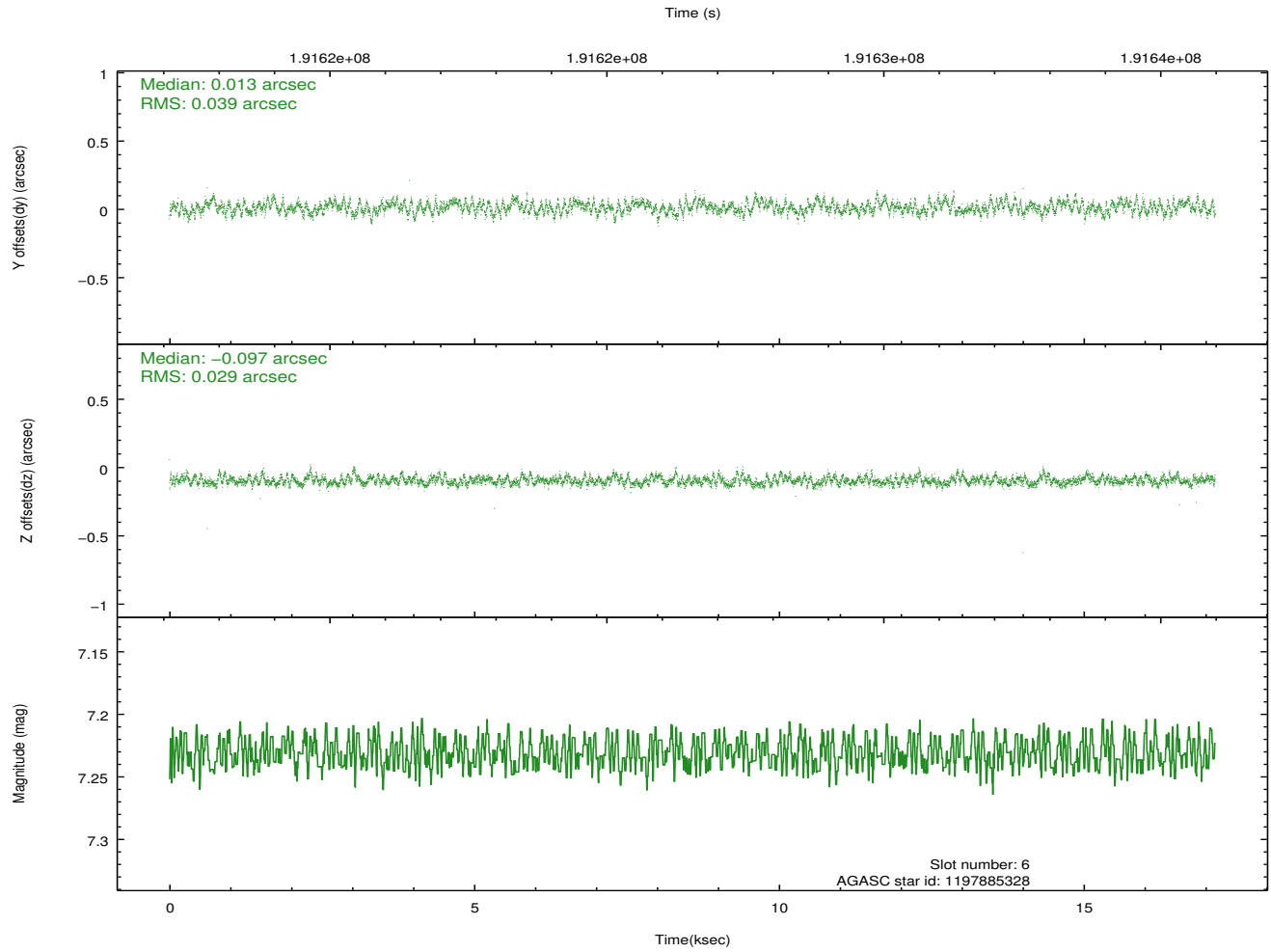
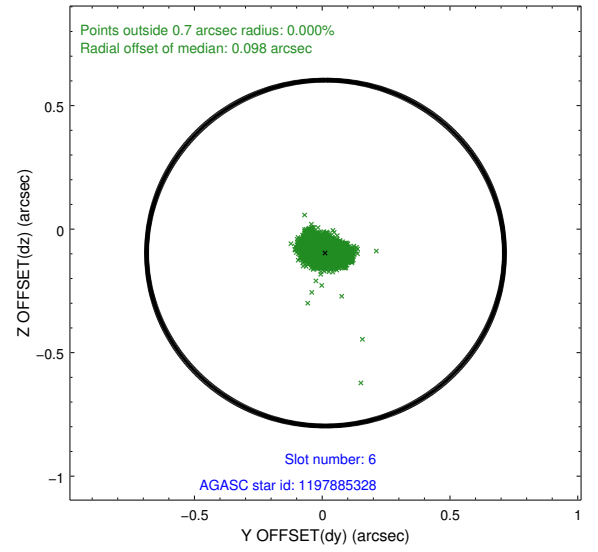
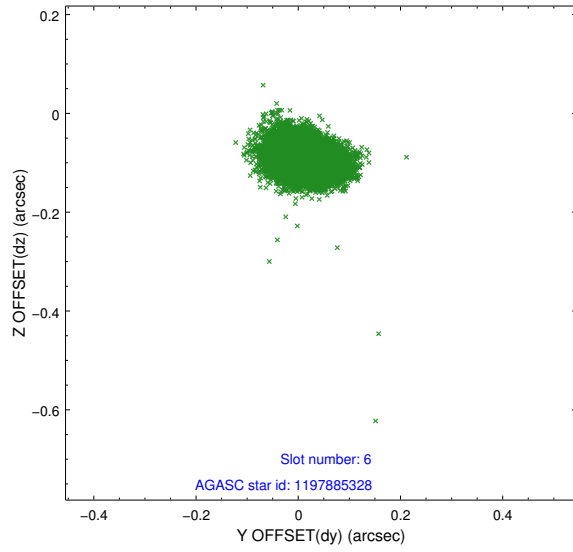
2.4.2 Slot 4



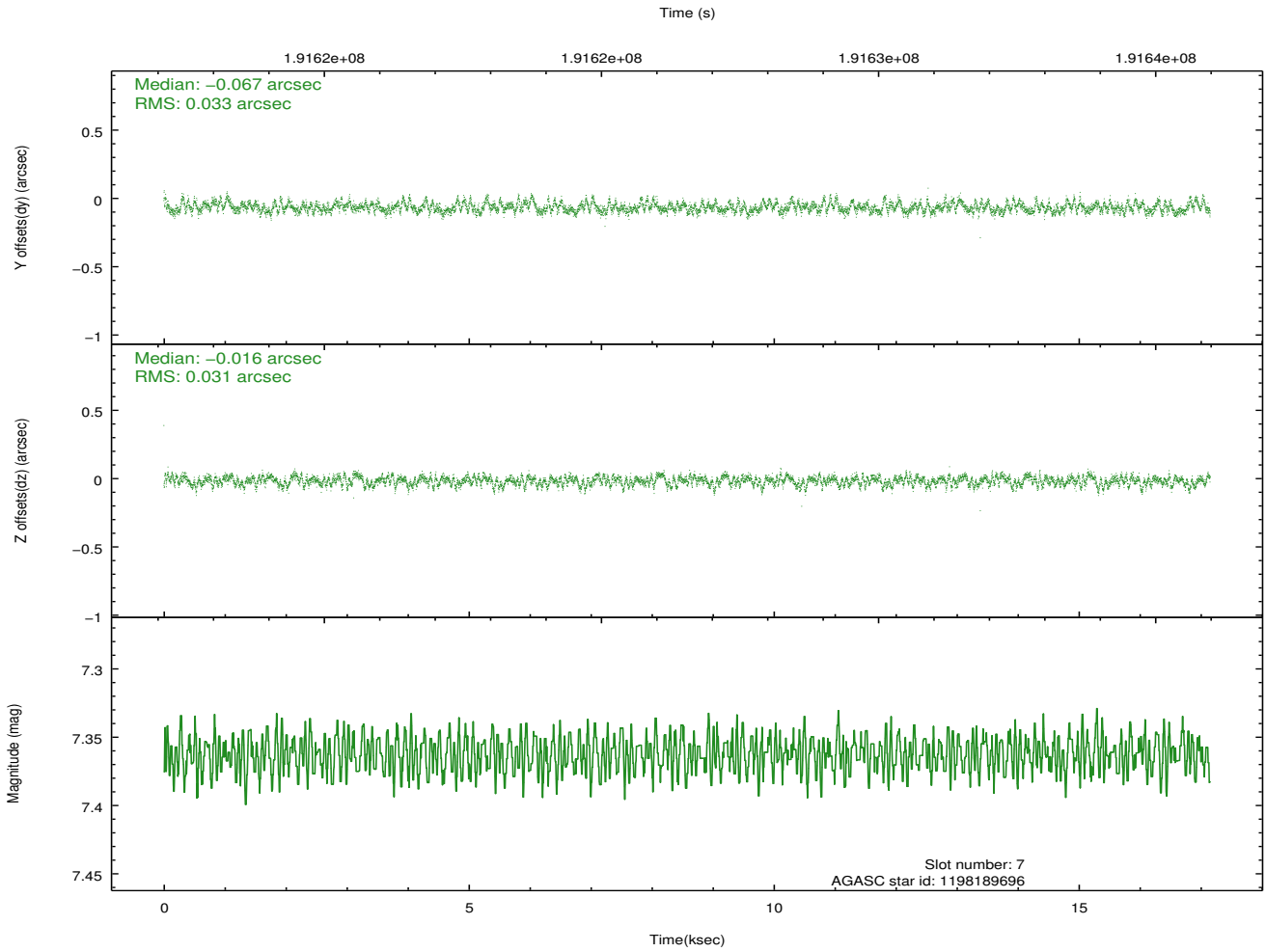
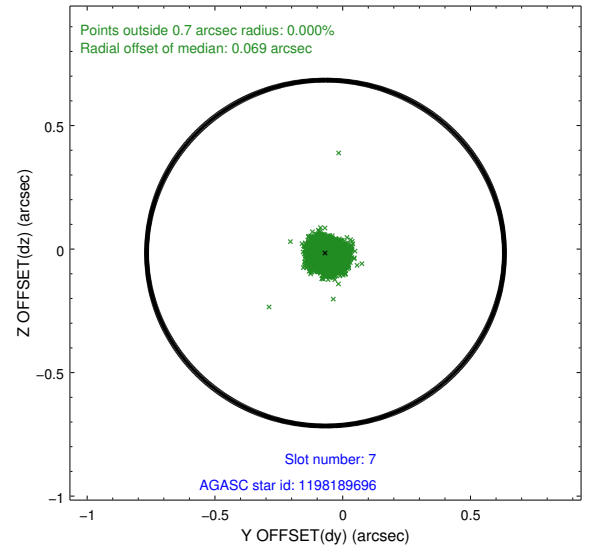
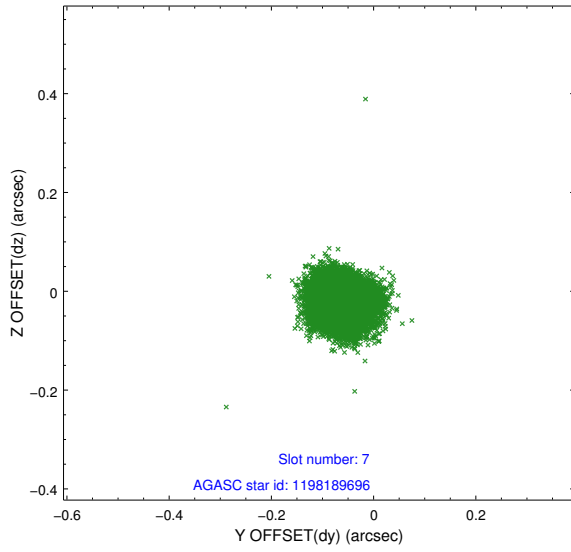
2.4.3 Slot 5



2.4.4 Slot 6

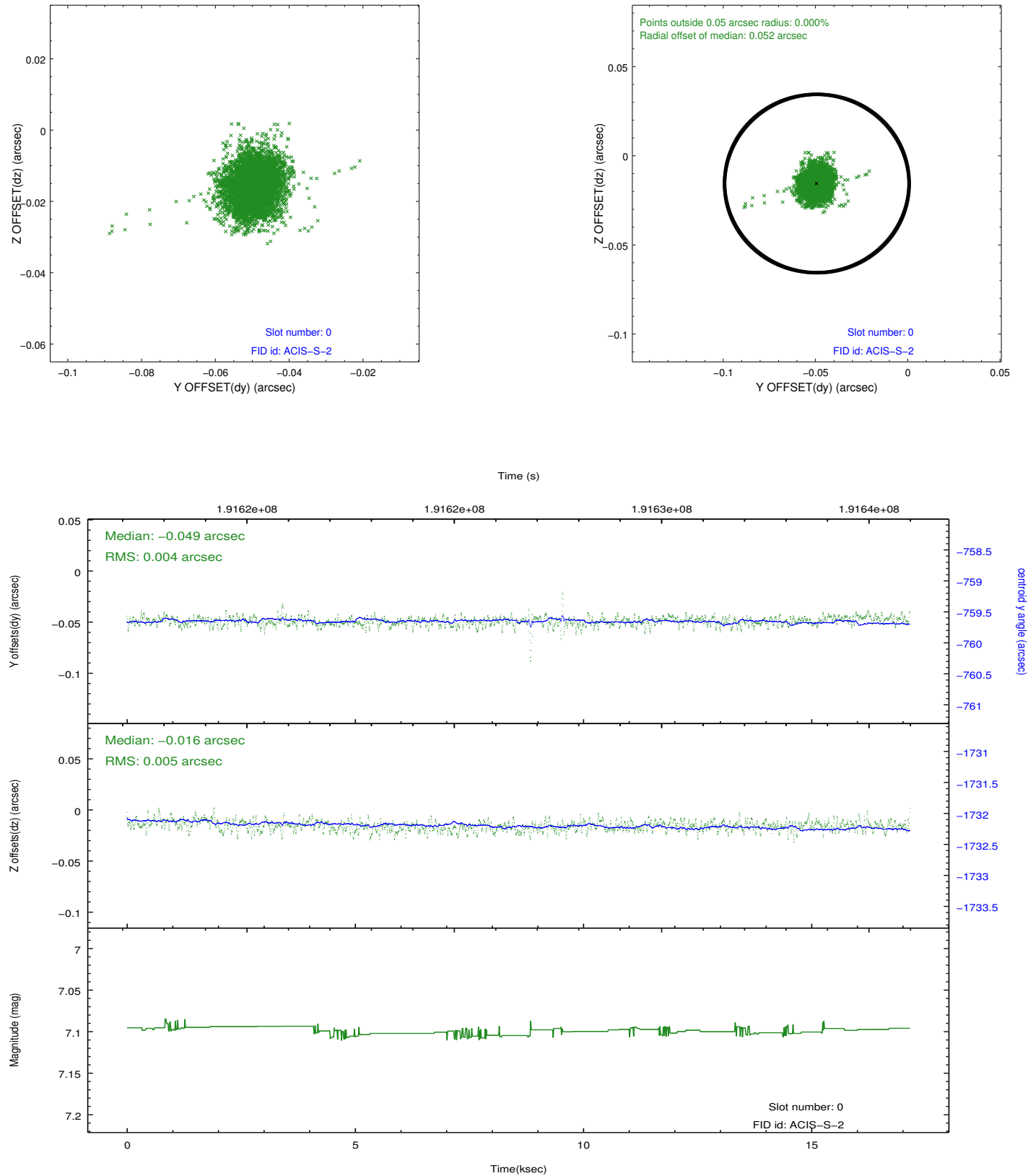


2.4.5 Slot 7

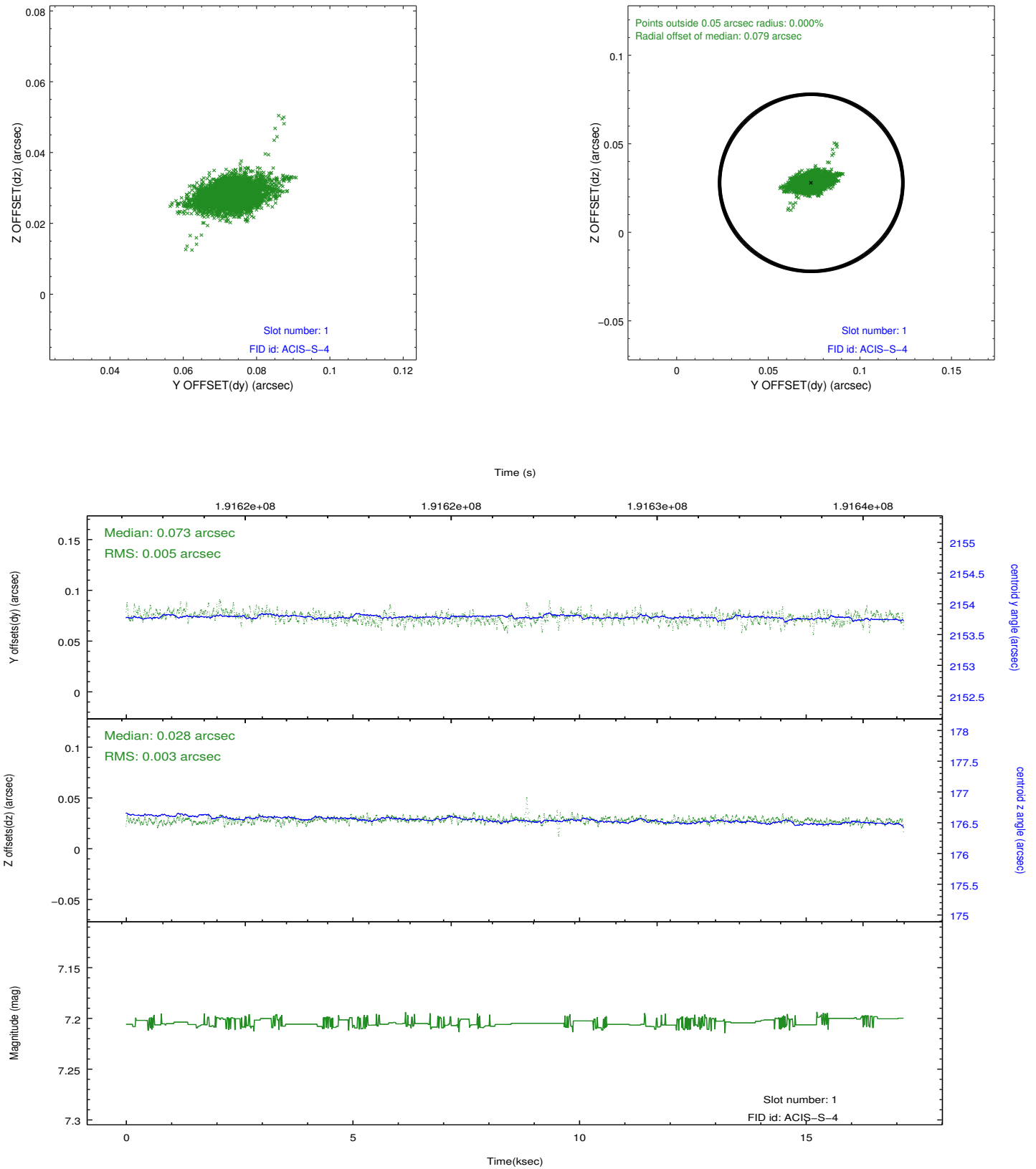


2.5 FID Slots

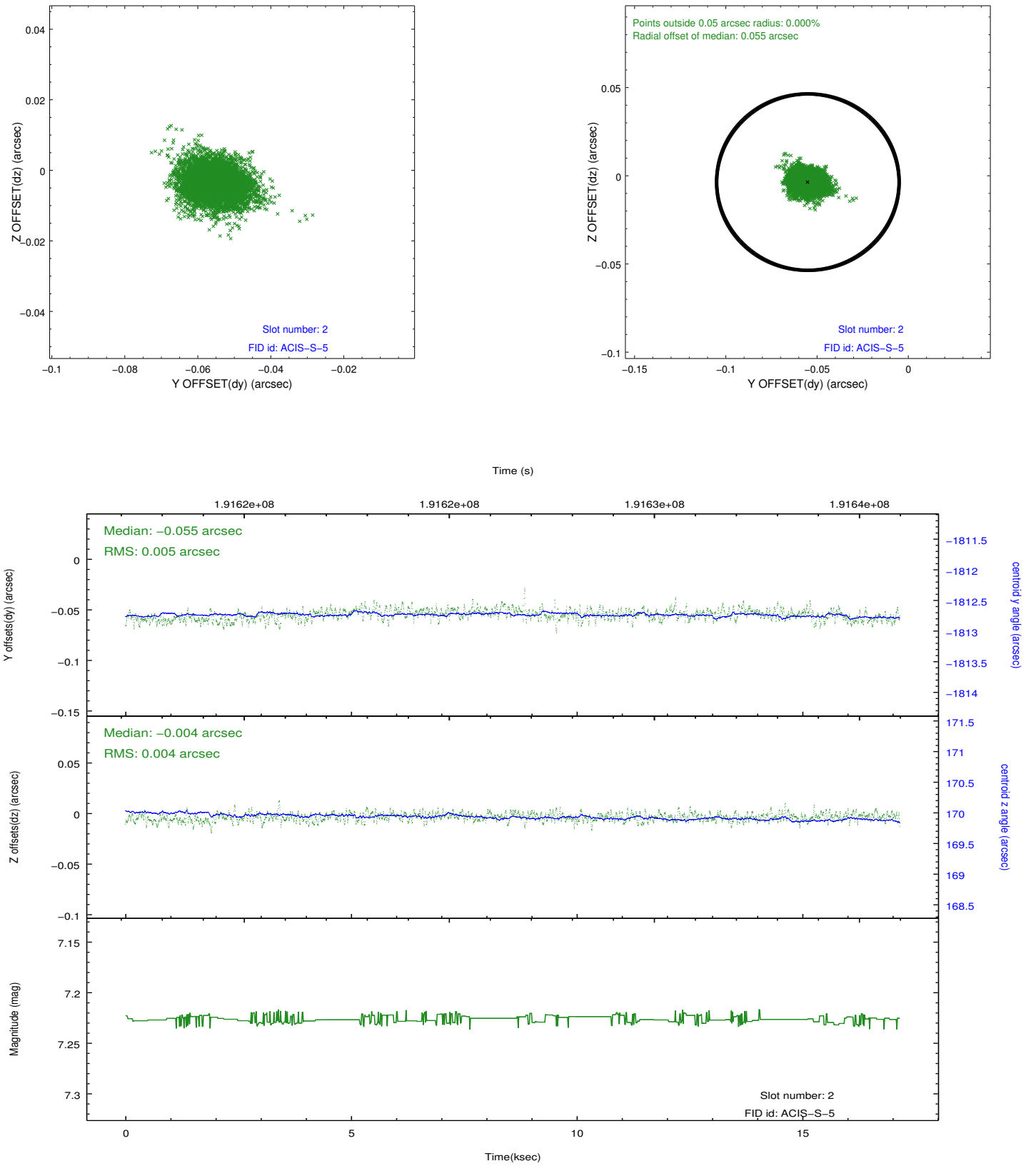
2.5.1 Slot 0



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) | 2012.11.29 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 17.156 |

A.2 Comments