

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5671 - L2 Version 3
Chandra X-Ray Center

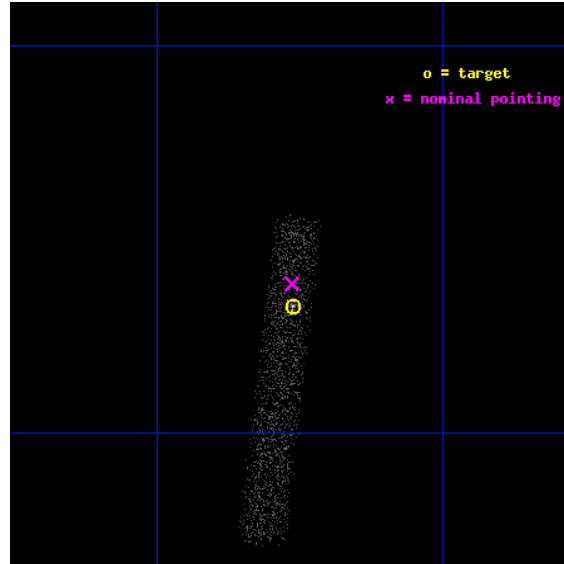
L2 Processing Date : Dec 20 2012

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1 Front

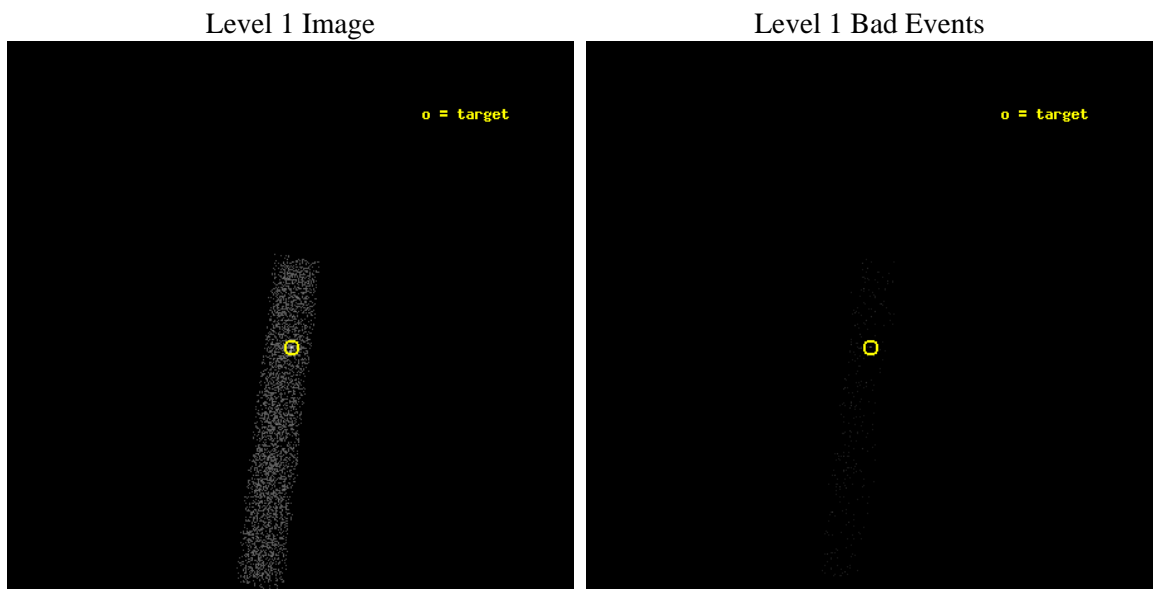
| | | |
|----------|--|---|
| seq_num | 701094 | Sequence number |
| obs_id | 5671 | Observation id |
| title | Gems in the Chandra Deep Fields: The Nature of Optically Passive X-ray Galaxies (aka XBONGs) | Proposal title |
| observer | Dr. Sally Laurent-Muehleisen | Principal investigator |
| object | RGB1512+020A | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 228.065833 | Observer's specified target RA [deg] |
| dec_targ | 2.054722 | Observer's specified target Dec [deg] |
| ra_nom | 228.06623344839 | Nominal RA [deg] |
| dec_nom | 2.0643054966165 | Nominal Dec [deg] |
| roll_nom | 96.707041682711 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 3186.8000474572 | Sum of GTIs [s] |
| livetime | 2890.2594299449 | Livetime [s] |
| ontime7 | 3186.8000474572 | Sum of GTIs [s] |
| l2events | 2775 | Number of level 2 events |



2 OBI

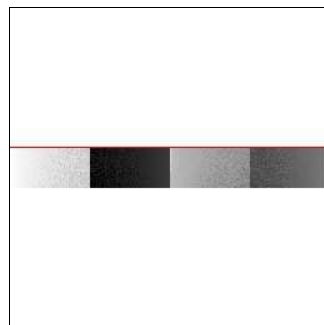
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 3000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.5.1.1 | Processing system revision | ontime | 3186.8000474572 | Sum of GTIs [s] |
| caldsver | 4.5.5 | | ontime7 | 3186.8000474572 | Sum of GTIs [s] |
| date | 2012-12-21T01:06:29 | Date and time of file creation | l1events | 5889 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

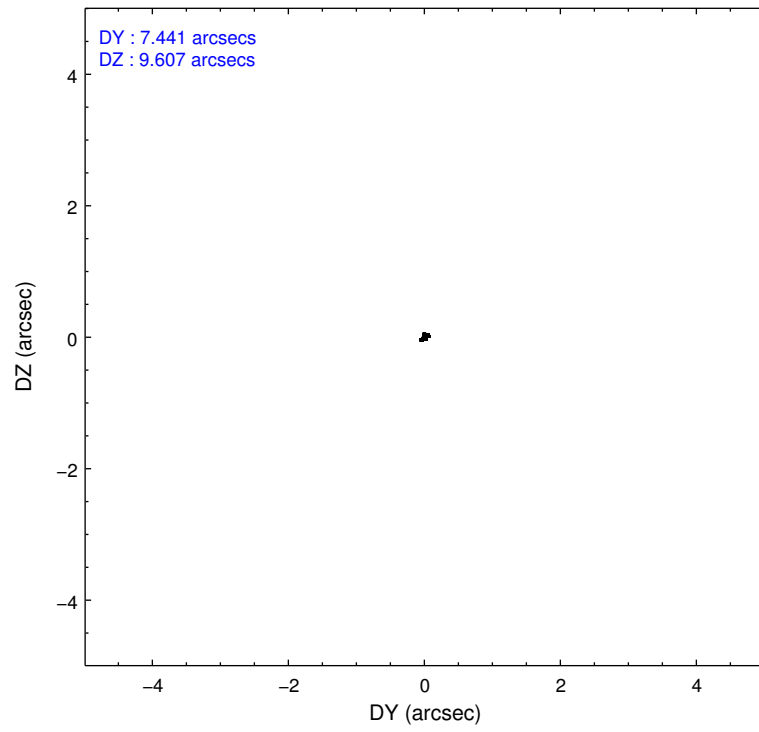
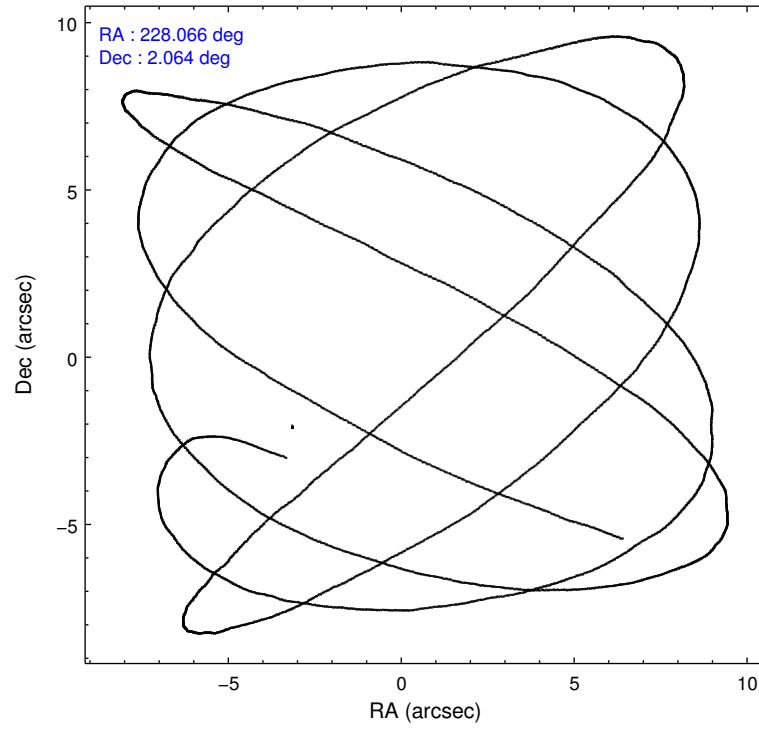
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 5889 |
| rejected events | 2987 |
| rejected % | 50% |

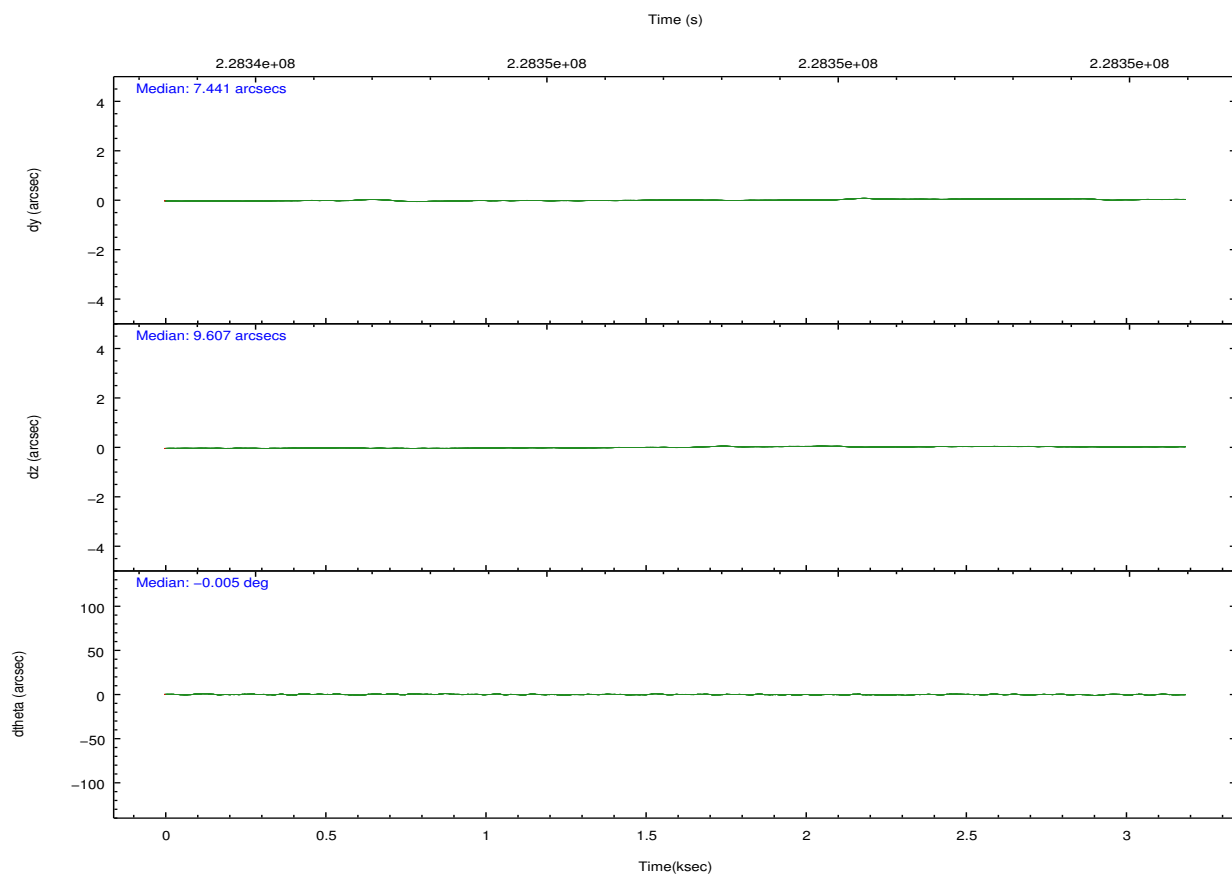
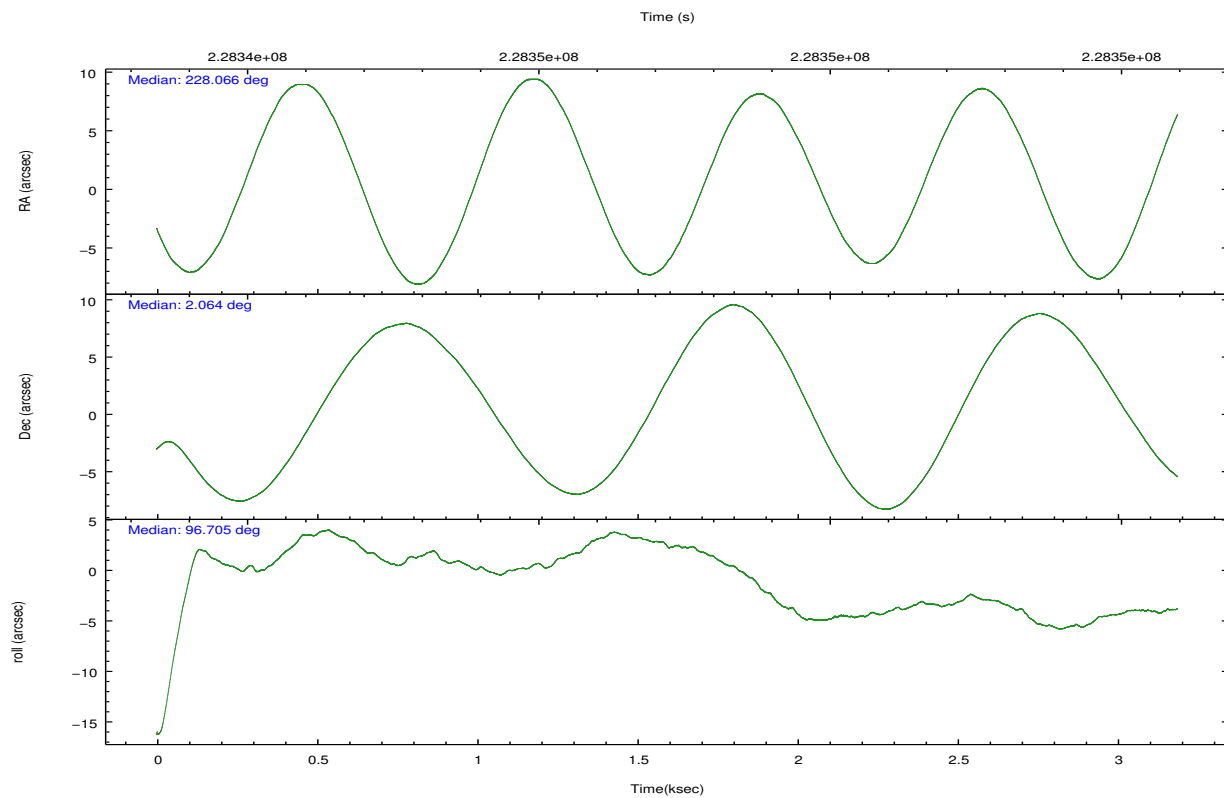
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 535 |
| | 9% |
| grade 1 events | 7 |
| | 0% |
| grade 2 events | 657 |
| | 11% |
| grade 3 events | 418 |
| | 7% |
| grade 4 events | 398 |
| | 6% |
| grade 5 events | 502 |
| | 8% |
| grade 6 events | 1234 |
| | 20% |
| grade 7 events | 2138 |
| | 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 | 228.082983 | 228.0662334483881 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | 2.042763 | 2.064305496616528 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 96.549850 | 96.70704168271119 | 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) | 228345032.184000 | 228344175.81009 | | | |
| Observation start date | 2005-03-27T21:09:28 | 2005-03-27T20:56:15 | | | |
| [s] Observation end time (MET) | 228348032.184000 | 228348593.56029 | | | |
| Observation end date | 2005-03-27T21:59:28 | 2005-03-27T22:09:53 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



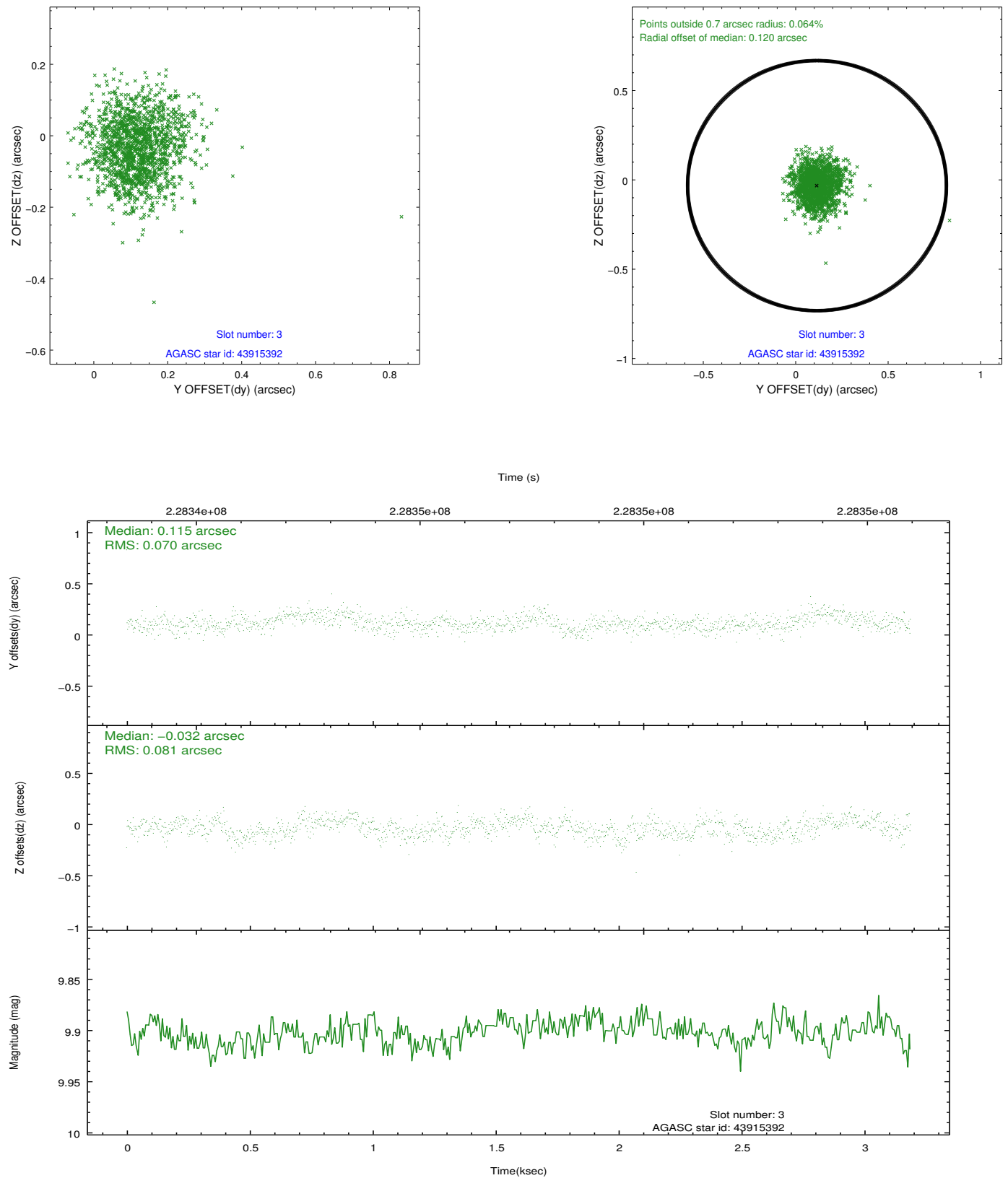


Slot Statistics

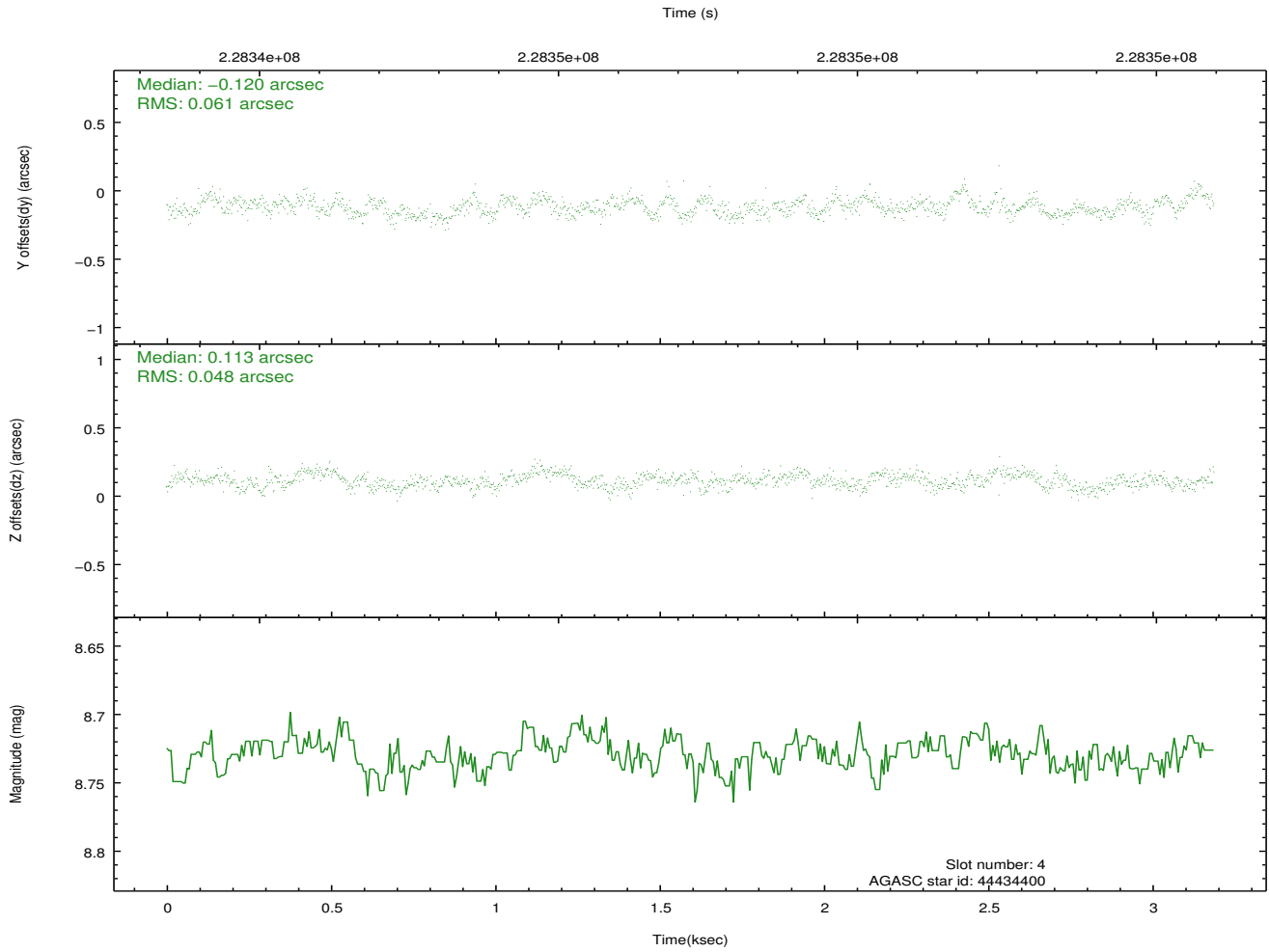
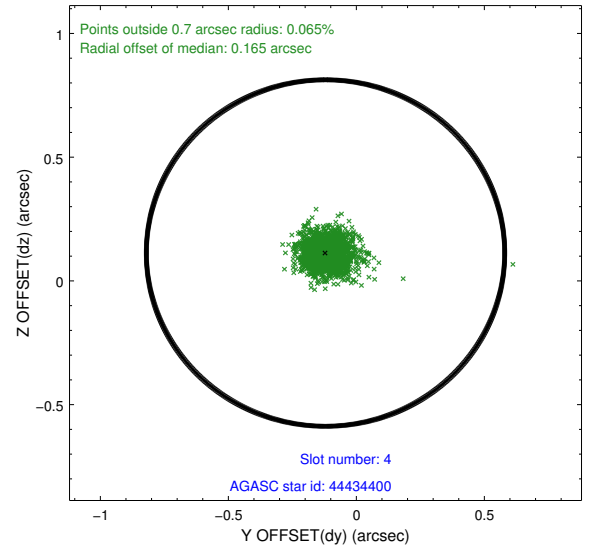
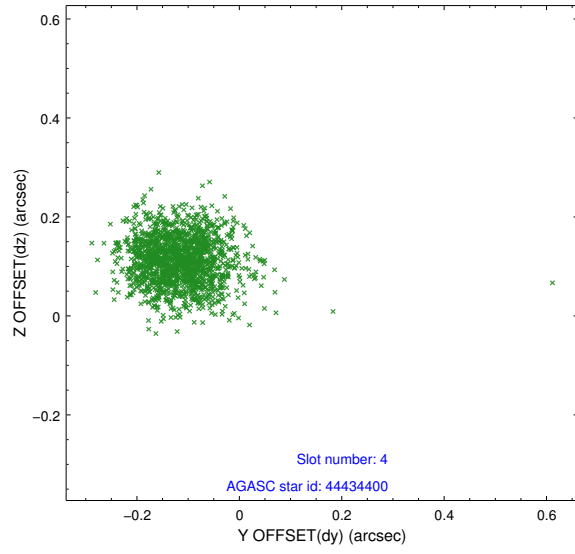
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|------------|----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 778 | -0.044 | -0.042 | 0.007 | 0.011 | 0.000000 | 0.000000 | -760.22 | -1730.85 |
| 1 | FID | ACIS-S-4 | 7.20 | 778 | 0.112 | 0.033 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2152.27 | 175.71 |
| 2 | FID | ACIS-S-5 | 7.24 | 778 | -0.098 | 0.018 | 0.007 | 0.010 | 0.000000 | 0.000000 | -1810.59 | 171.55 |
| 3 | GUIDE | 43915392 | 9.90 | 1552 | 0.115 | -0.032 | 0.113 | 0.180 | 228.358281 | 1.736508 | -1207.69 | -858.98 |
| 4 | GUIDE | 44434400 | 8.73 | 1546 | -0.120 | 0.113 | 0.079 | 0.130 | 228.477665 | 2.695707 | 2173.44 | -1678.61 |
| 5 | GUIDE | 44434736 | 8.90 | 1556 | 0.169 | 0.118 | 0.079 | 0.121 | 228.288855 | 1.879973 | -664.43 | -670.49 |
| 6 | GUIDE | 44435552 | 9.37 | 1554 | -0.165 | -0.164 | 0.088 | 0.145 | 227.842357 | 2.543650 | 1890.18 | 653.19 |
| 7 | GUIDE | 44436768 | 9.18 | 1554 | -0.004 | -0.025 | 0.084 | 0.135 | 228.398067 | 2.250457 | 615.48 | -1211.11 |

2.4 Star Slots

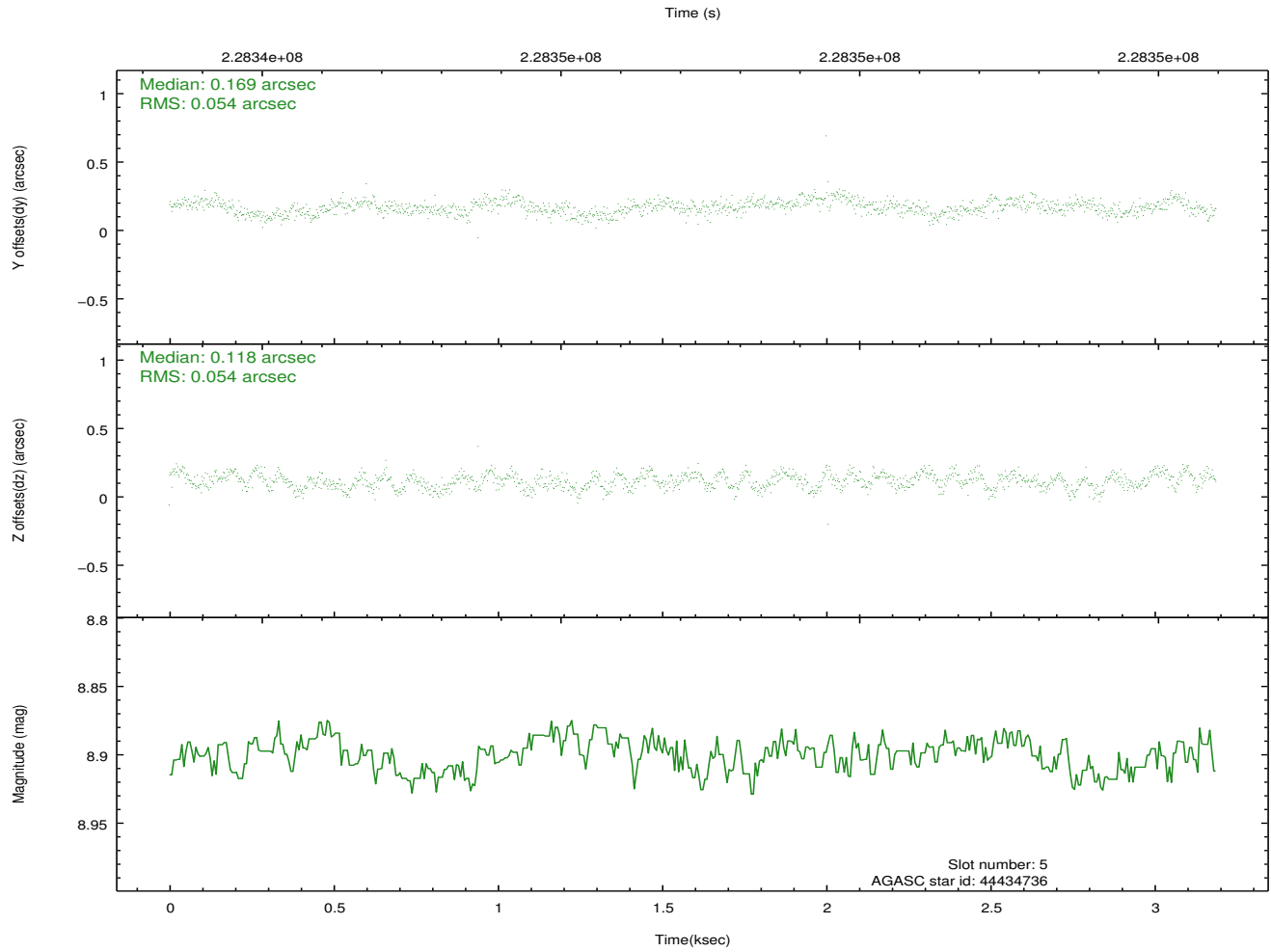
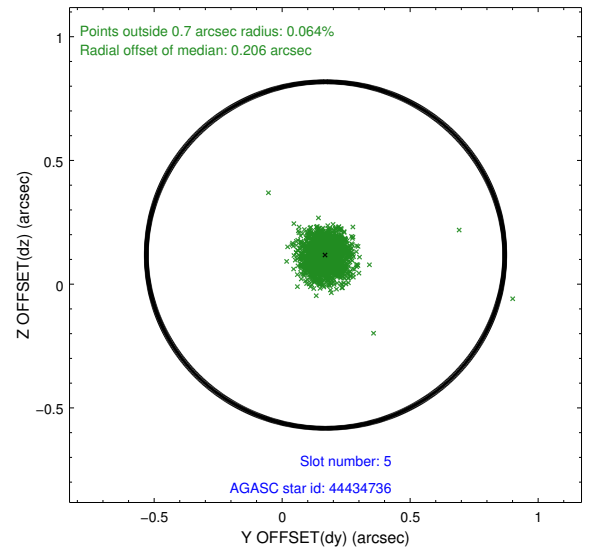
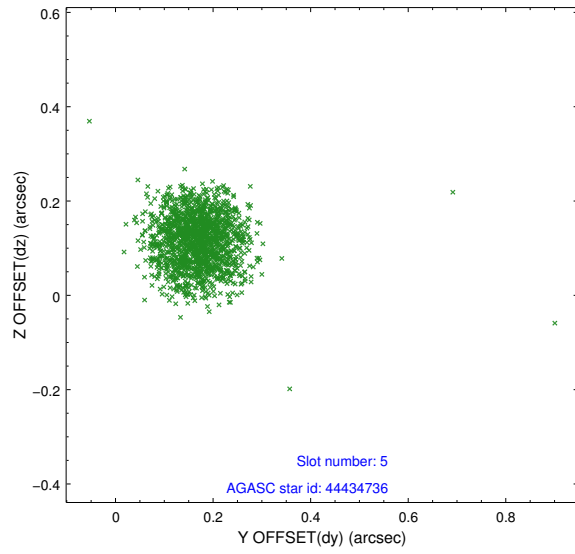
2.4.1 Slot 3



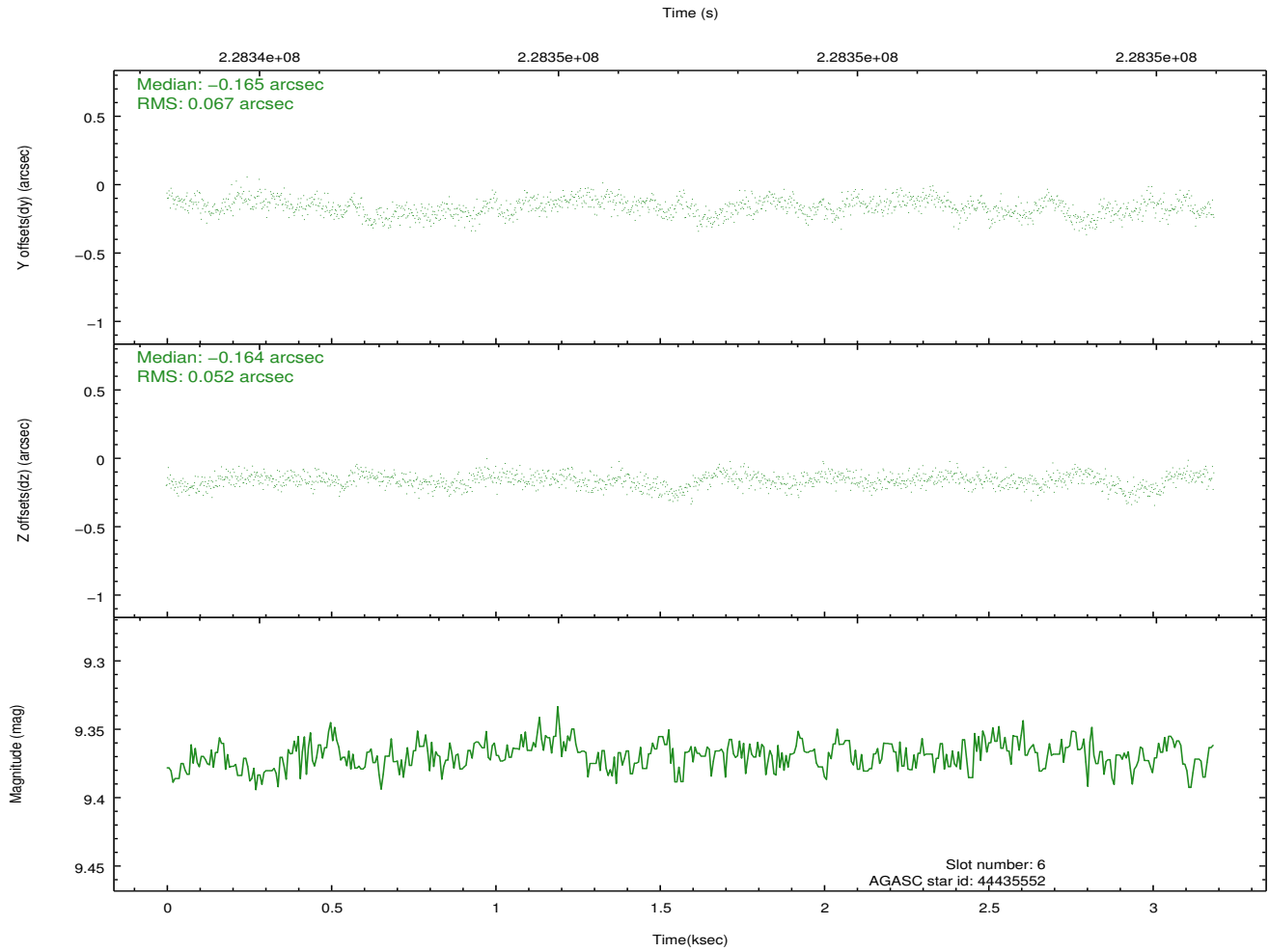
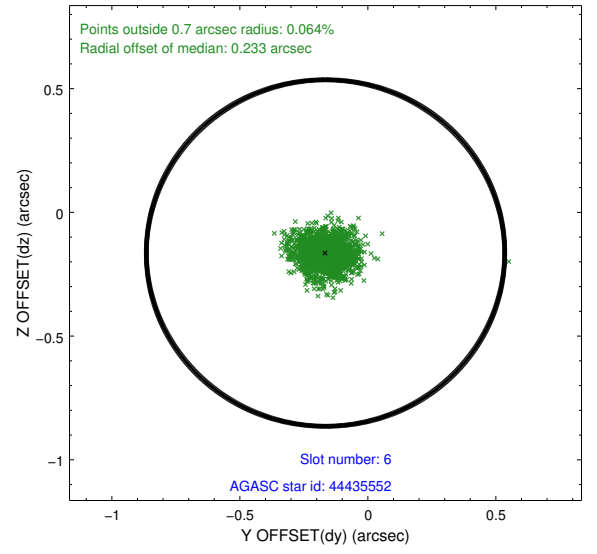
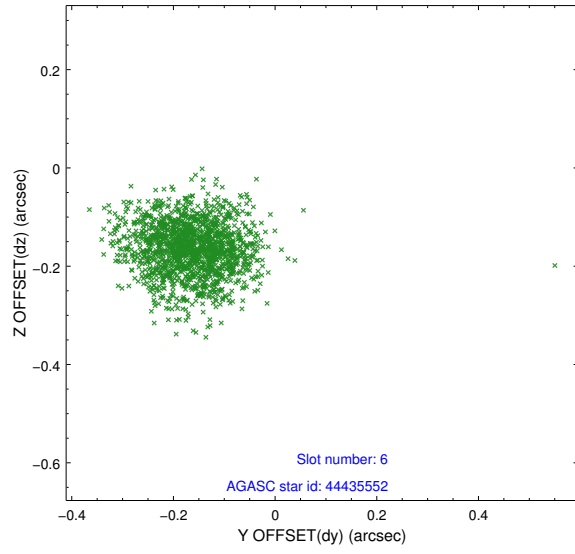
2.4.2 Slot 4



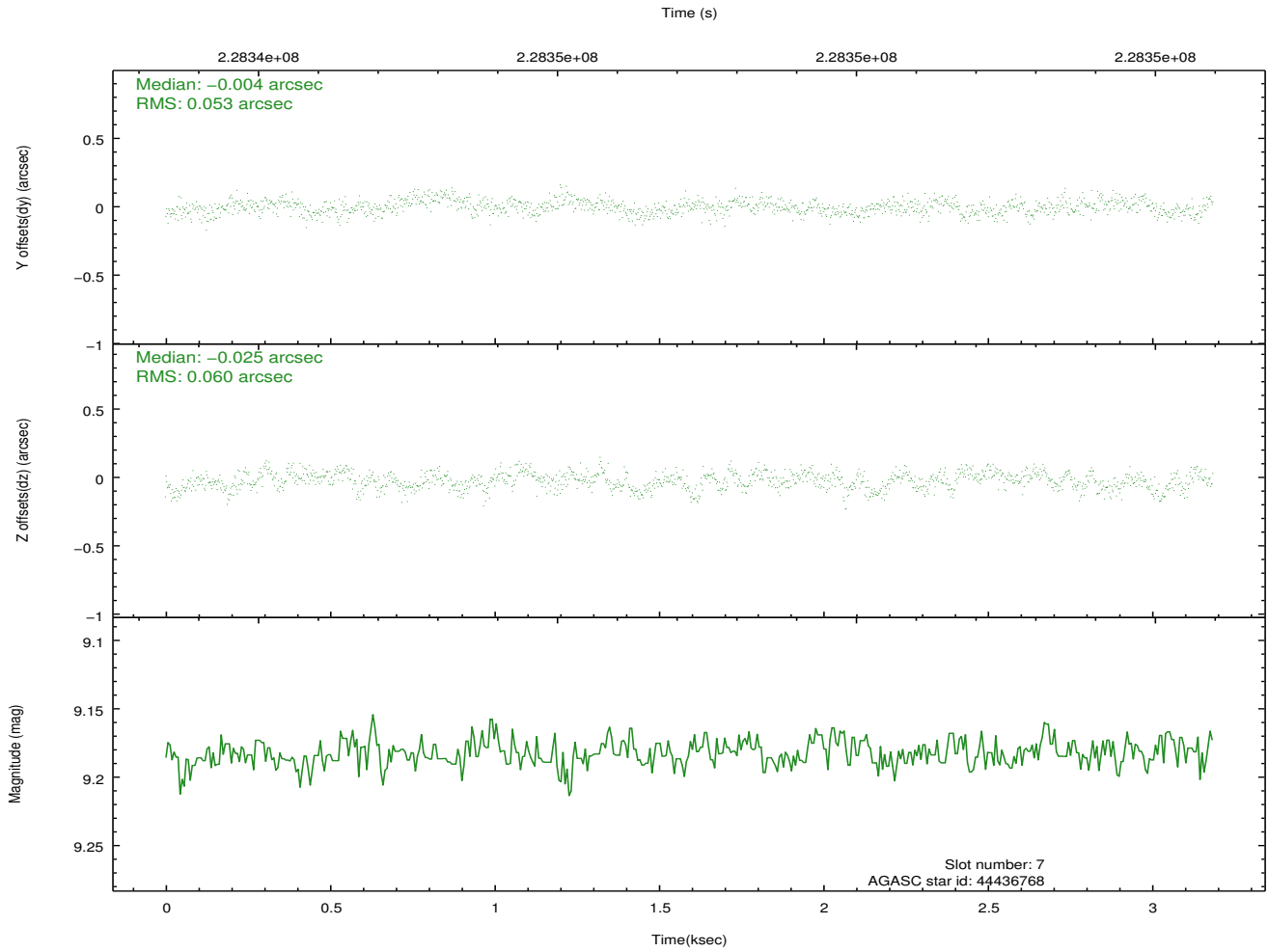
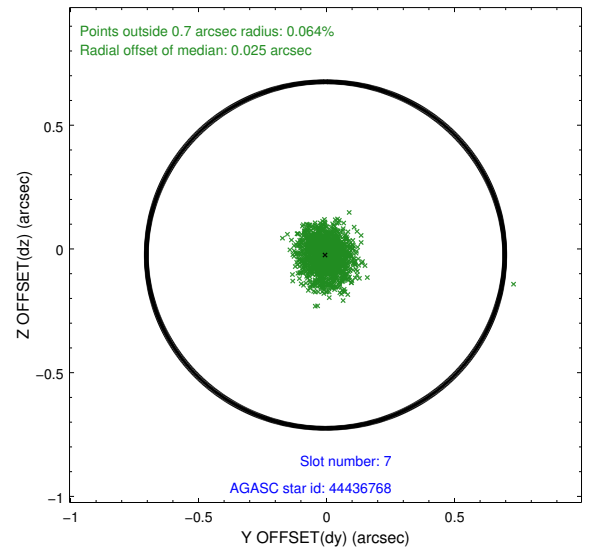
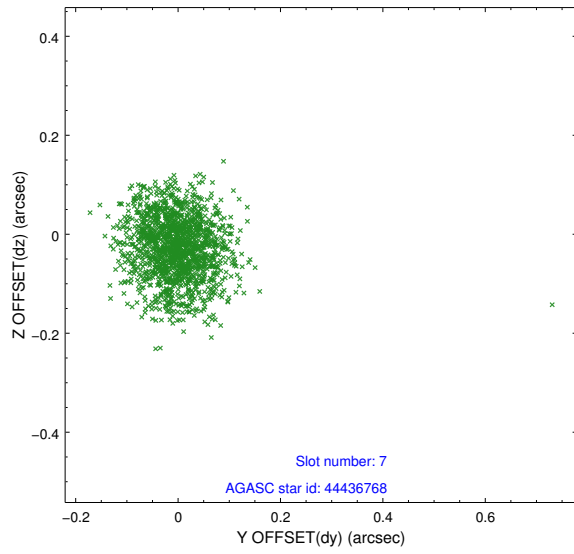
2.4.3 Slot 5



2.4.4 Slot 6

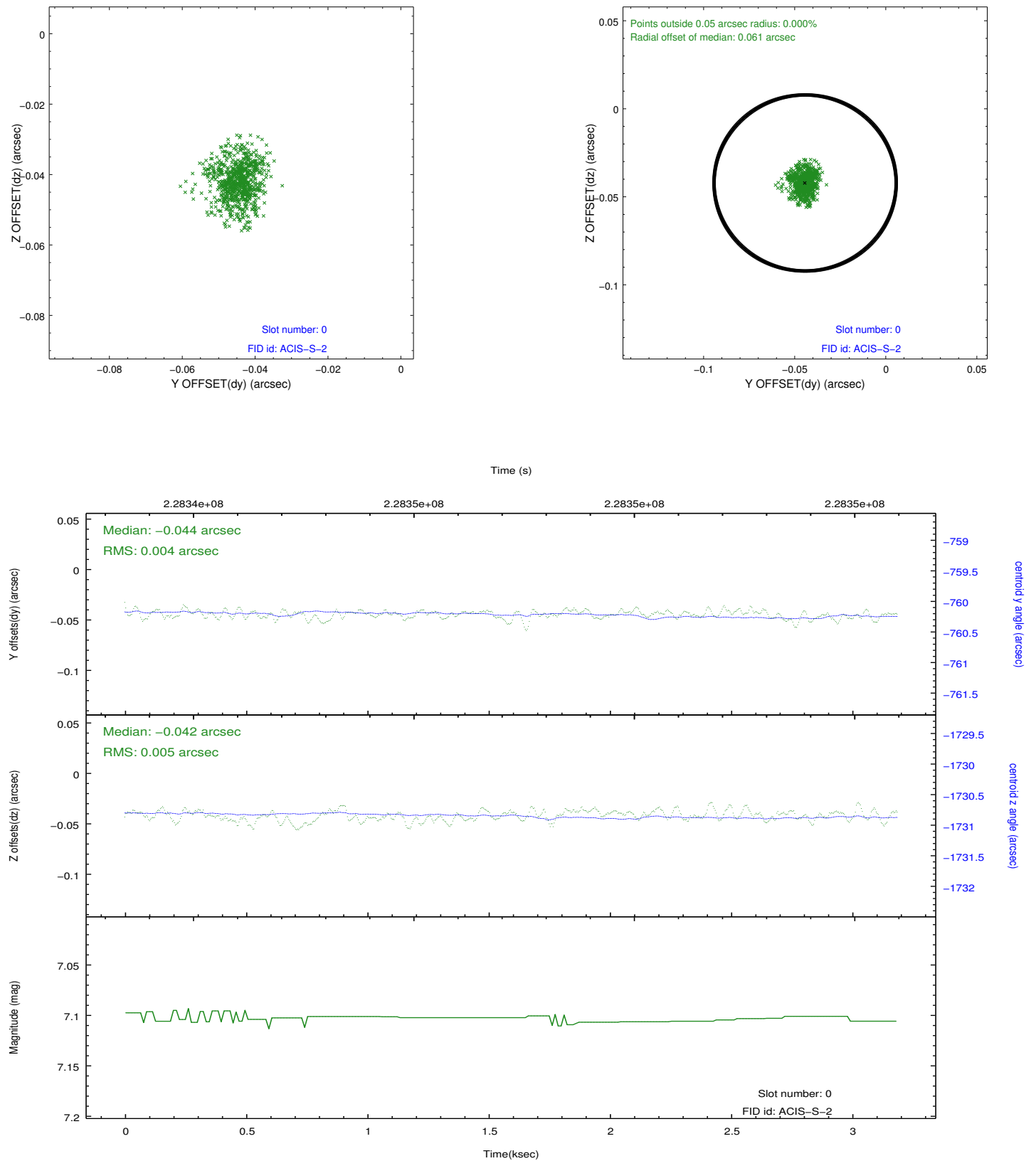


2.4.5 Slot 7

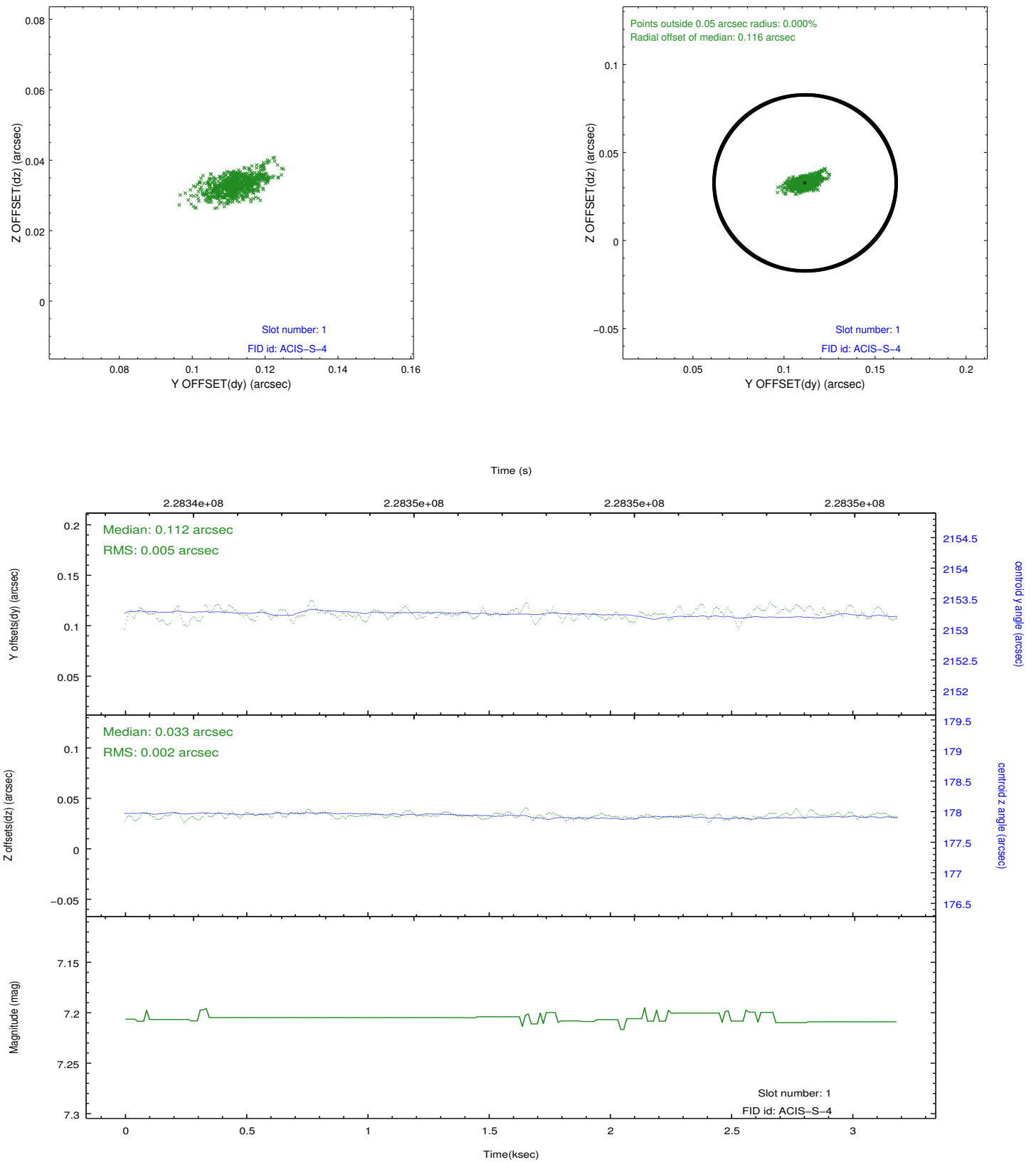


2.5 FID Slots

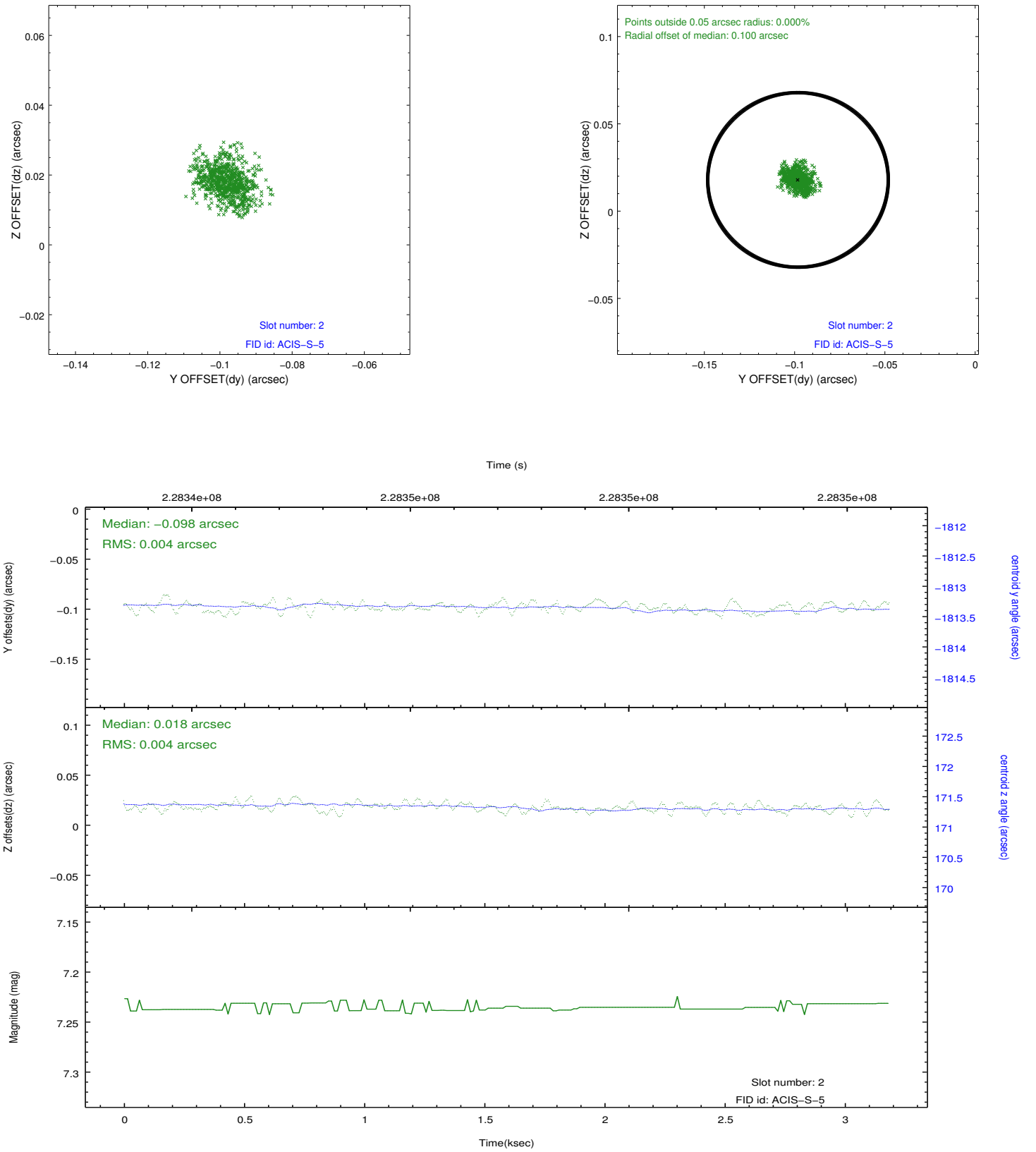
2.5.1 Slot 0



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) | 2013.01.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.1868 |

A.2 Comments

Joint Proposal: NRAO