

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11914 - L2 Version 2
Chandra X-Ray Center

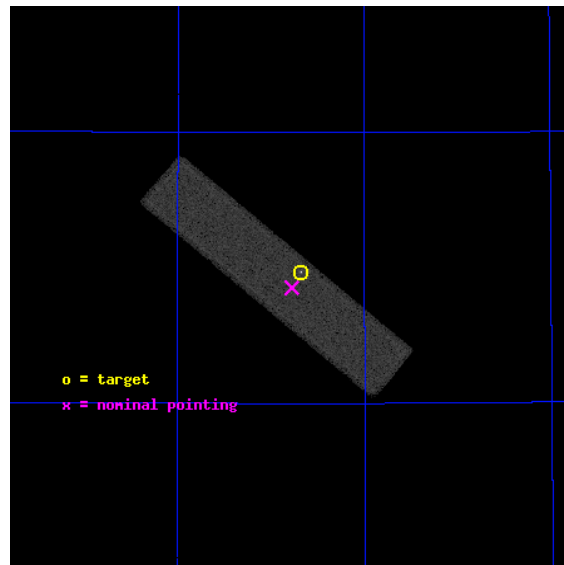
L2 Processing Date : Jul 3 2012

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1 Front

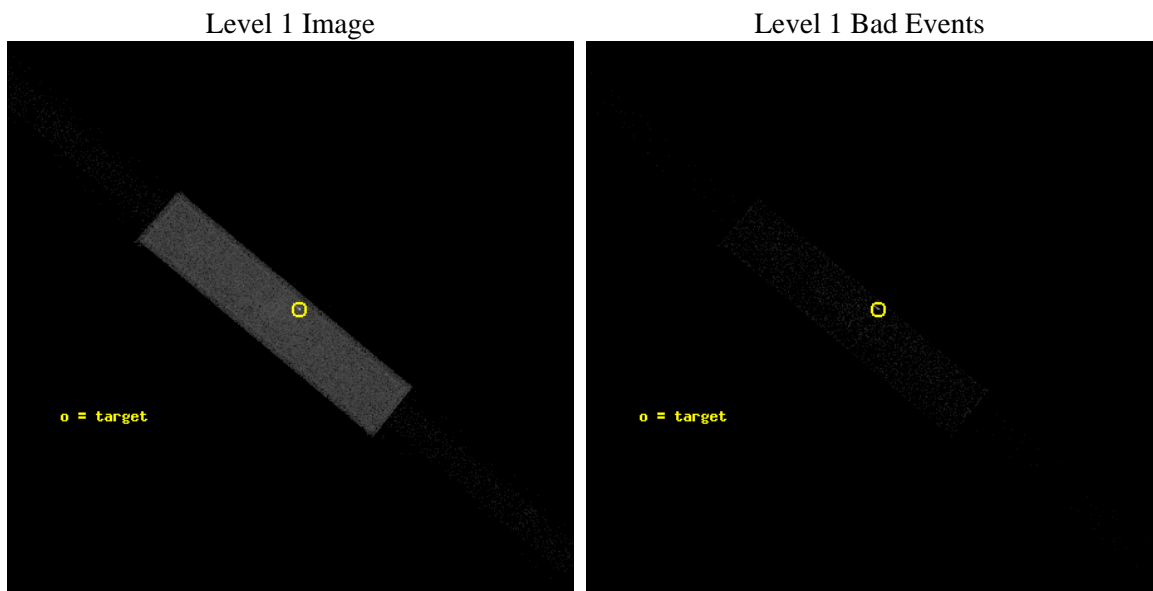
| | | |
|----------|--|---------------------------------------|
| seq_num | 290903 | Sequence number |
| obs_id | 11914 | Observation id |
| title | AO-11 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ArLac | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.19418395796 | Nominal RA [deg] |
| dec_nom | 45.713695808057 | Nominal Dec [deg] |
| roll_nom | 219.56847692327 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 1147.2313087583 | [s] |
| livetime | 1137.8018733555 | Ontime multiplied by DTCOR |
| l2events | 70224 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 1147.2313087583 | [s] |
| caldbver | 4.5.0 | | l1events | 110300 | Number of level 1 events |
| date | 2012-07-03T23:59:21 | Date and time of file creation | | | |
| revision | 2 | Processing version of data | | | |

2.1.3 Events

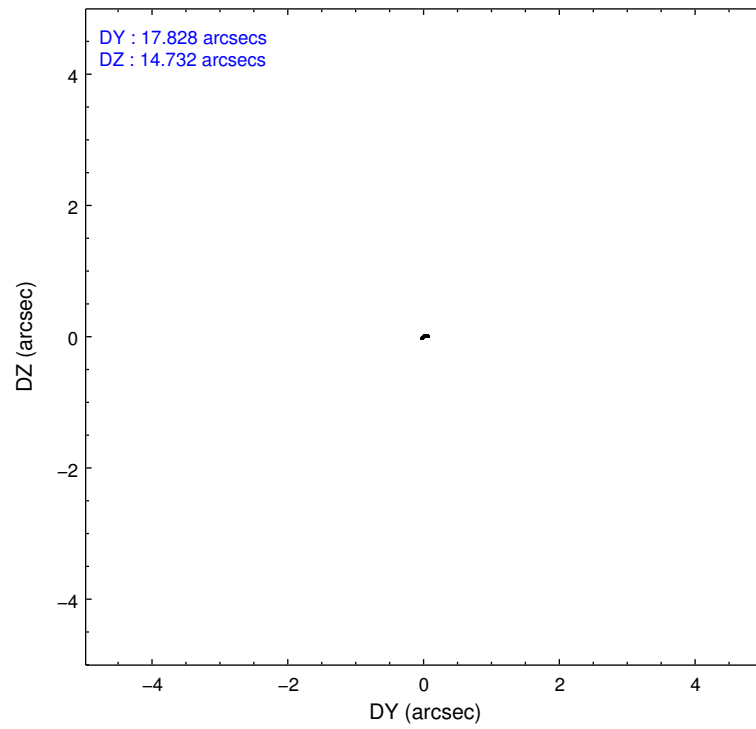
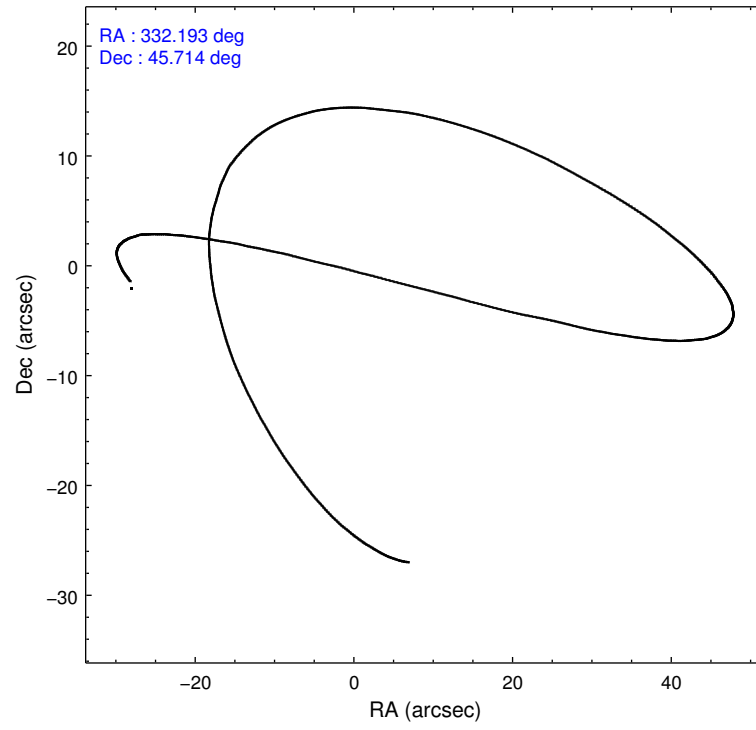
Level 1 Events

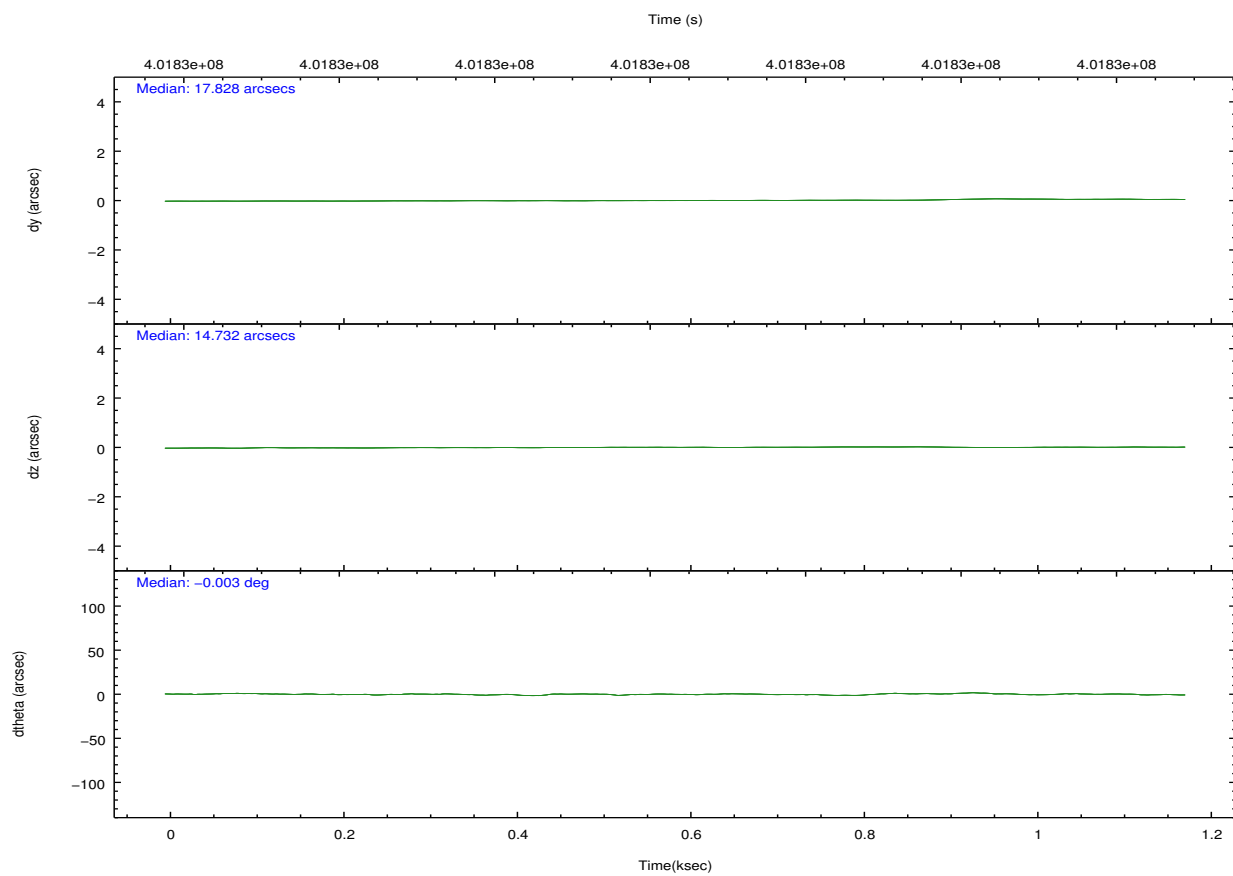
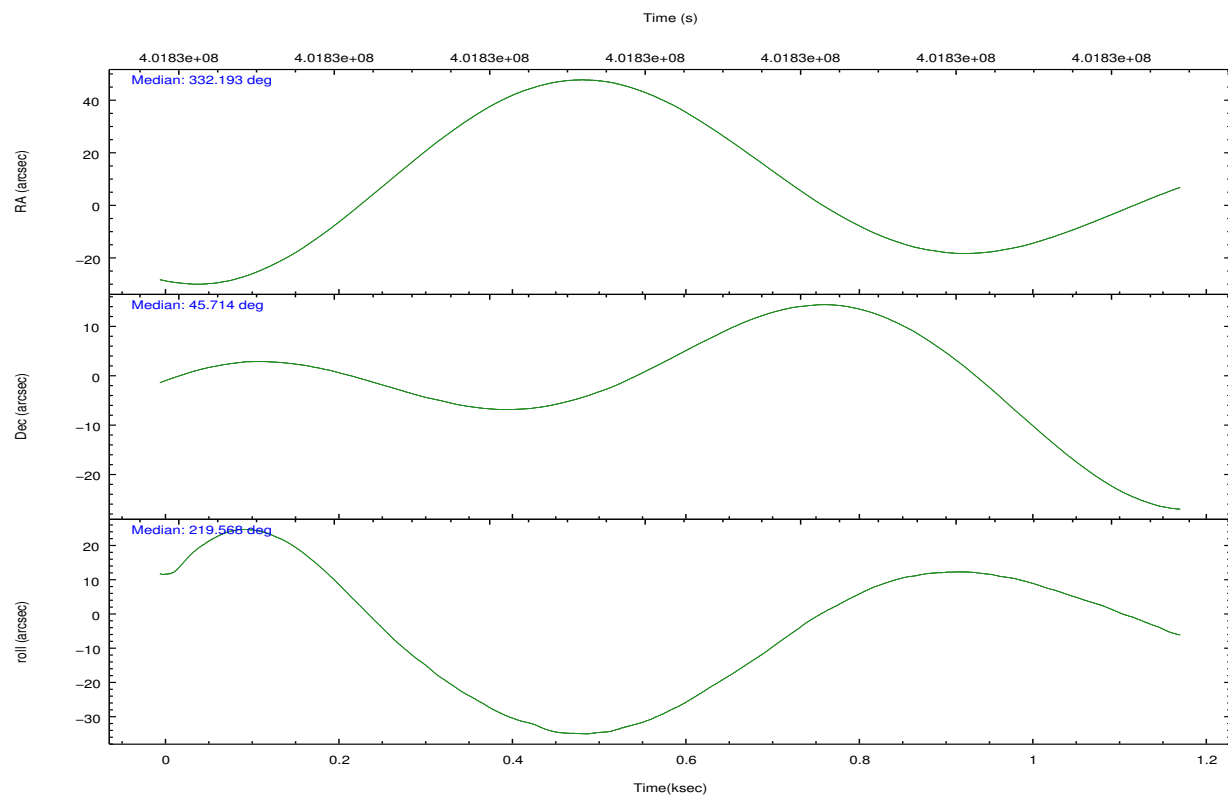
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 924 | 108456 | 920 |
| rejected events | 924 | 25792 | 920 |
| rejected % | 100% | 23% | 100% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|-----------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-S | HRC-S | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 332.207466 | 332.1941839579551 | | | |
| [deg] Pointing Dec | 45.740977 | 45.71369580805679 | | | |
| [deg] Pointing Roll | 219.491635 | 219.5684769232734 | | | |
| [mm] SIM focus pos | -1.533336 | -1.526339935833849 | | | |
| [mm] SIM defocus | 7.710433287538843e-07 | 0.006996703570447904 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 401828809.184000 | 401828433.64 | | | |
| Observation start date | 2010-09-25T19:05:43 | 2010-09-25T19:00:33 | | | |
| [s] Observation end time (MET) | 401829809.184000 | 401829943.46508 | | | |
| Observation end date | 2010-09-25T19:22:23 | 2010-09-25T19:25:43 | | | |

2.3 Aspect



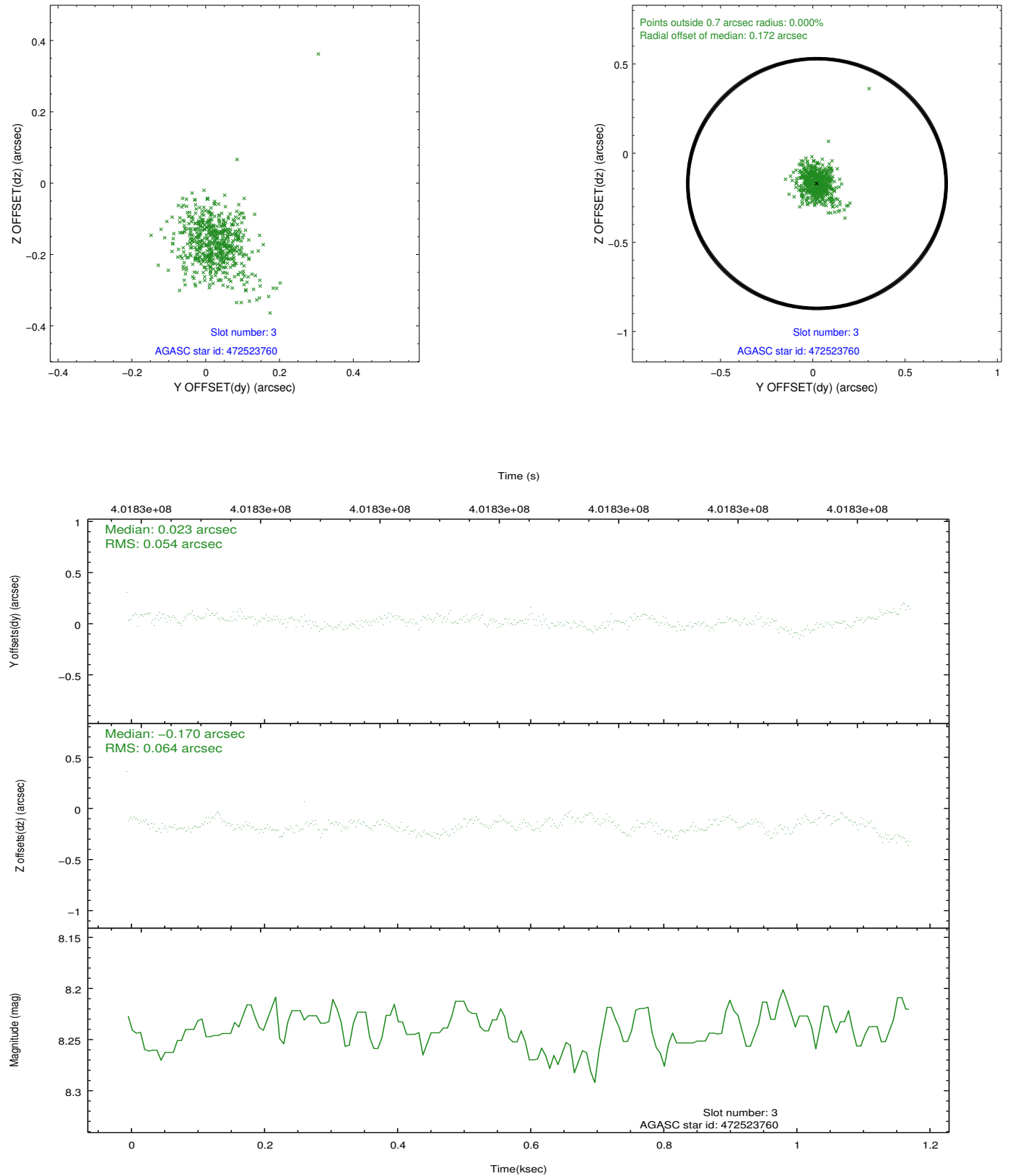


Slot Statistics

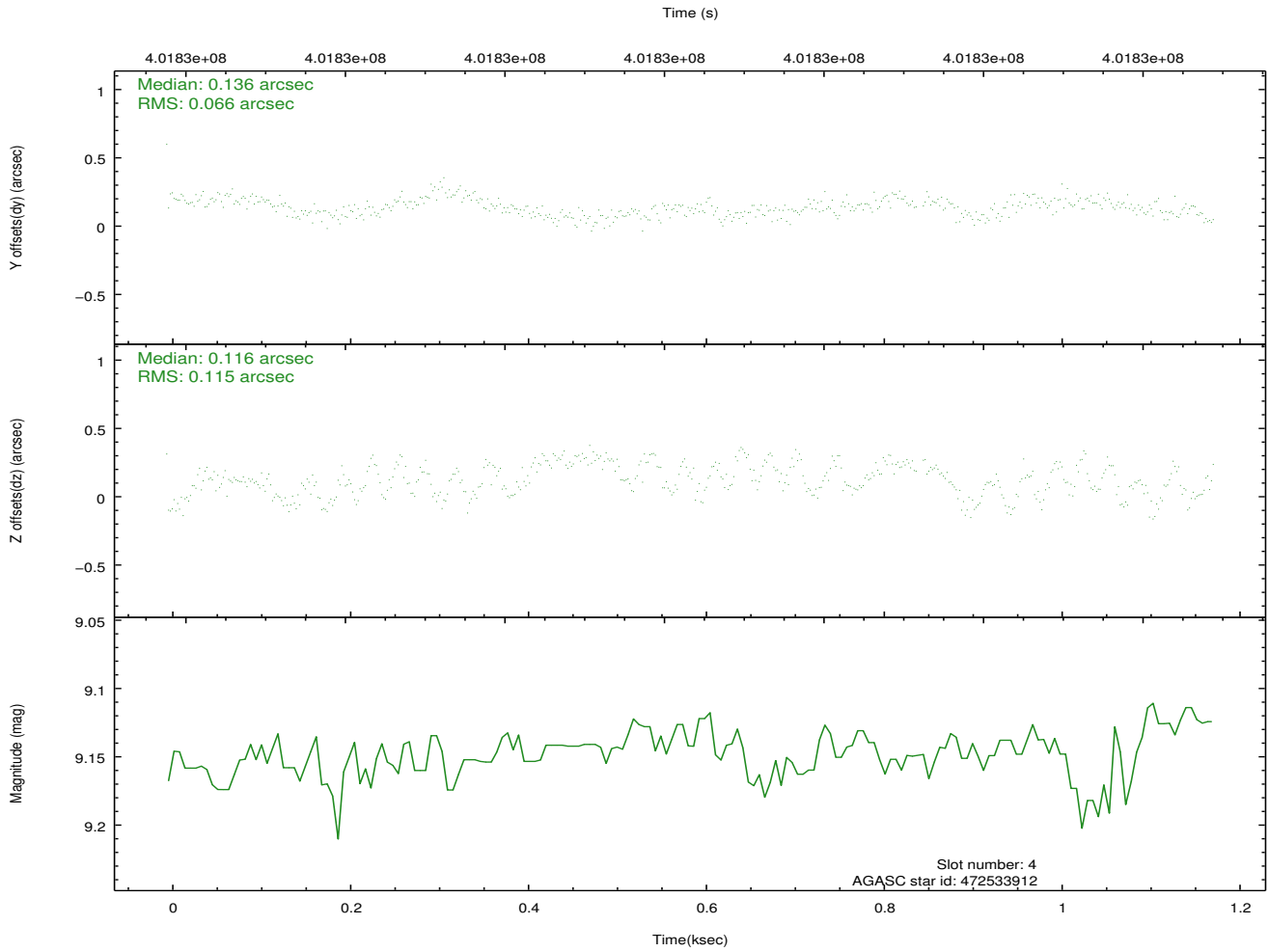
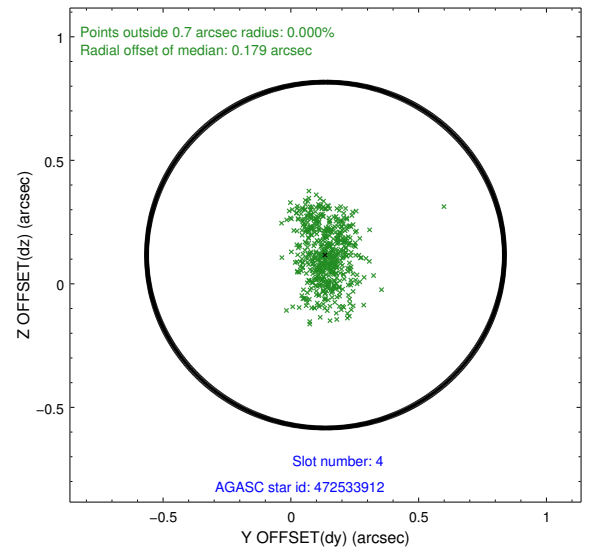
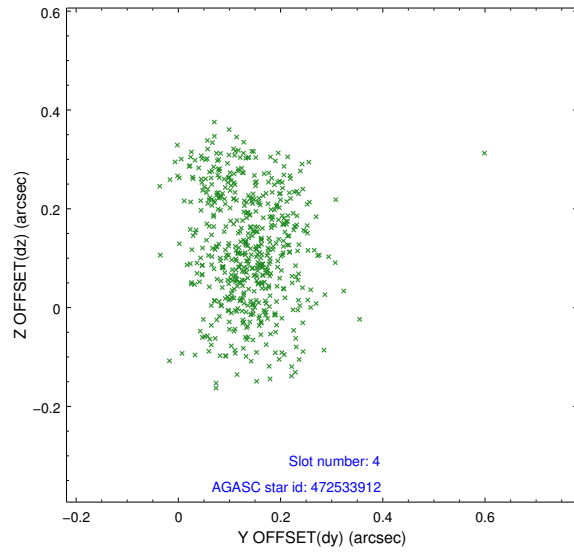
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.00 | 287 | 0.056 | -0.220 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1172.34 | -463.64 |
| 1 | FID | HRC-S-2 | 6.97 | 287 | 0.247 | -0.118 | 0.005 | 0.008 | 0.000000 | 0.000000 | 1223.43 | -457.80 |
| 2 | FID | HRC-S-3 | 7.01 | 287 | 0.087 | 0.036 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1170.76 | 564.54 |
| 3 | GUIDE | 472523760 | 8.24 | 575 | 0.023 | -0.170 | 0.080 | 0.143 | 331.645363 | 45.403260 | 1865.47 | 32.66 |
| 4 | GUIDE | 472533912 | 9.15 | 572 | 0.136 | 0.116 | 0.143 | 0.225 | 331.791136 | 46.368695 | -638.42 | -2401.71 |
| 5 | GUIDE | 472655152 | 9.43 | 575 | 0.042 | -0.139 | 0.156 | 0.257 | 332.504239 | 45.862991 | -856.57 | 130.85 |
| 6 | GUIDE | 472665256 | 9.01 | 575 | 0.164 | 0.138 | 0.105 | 0.166 | 332.808125 | 46.195041 | -2200.71 | -311.66 |
| 7 | GUIDE | 472525528 | 6.65 | 574 | -0.370 | 0.035 | 0.079 | 0.133 | 331.551102 | 45.248694 | 2401.22 | 306.01 |

2.4 Star Slots

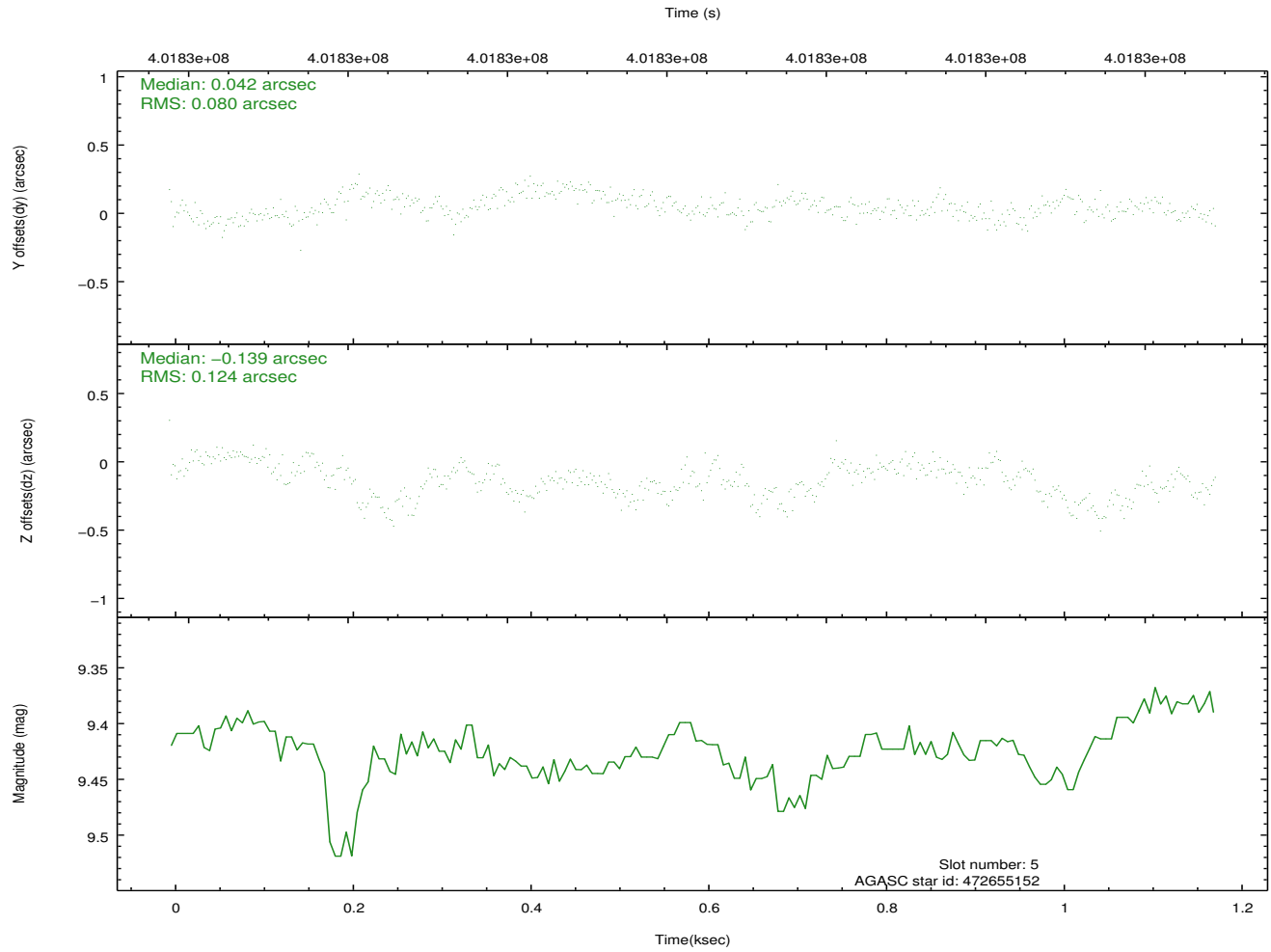
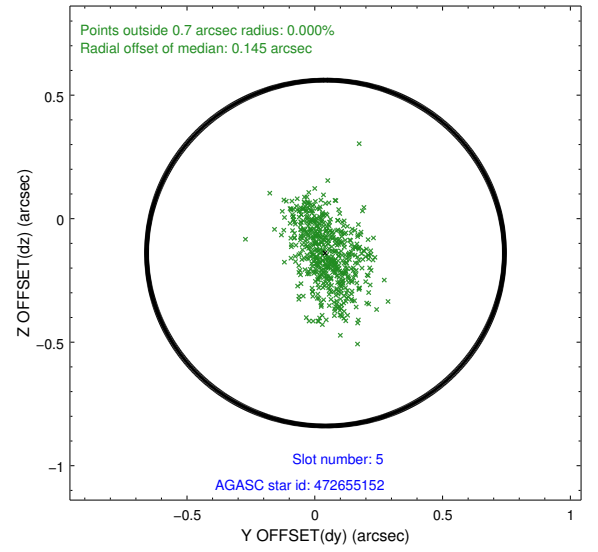
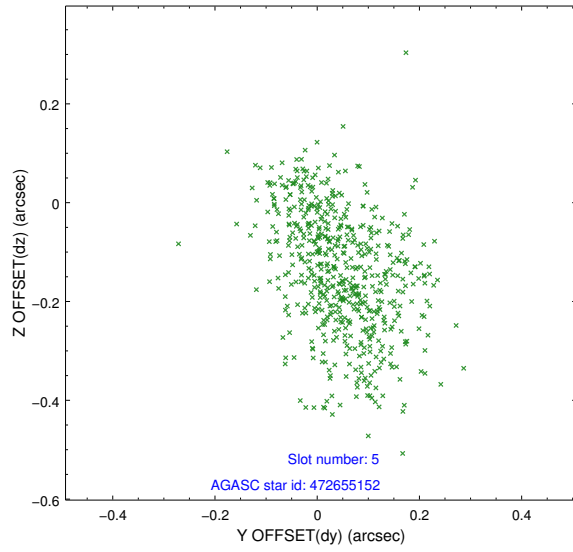
2.4.1 Slot 3



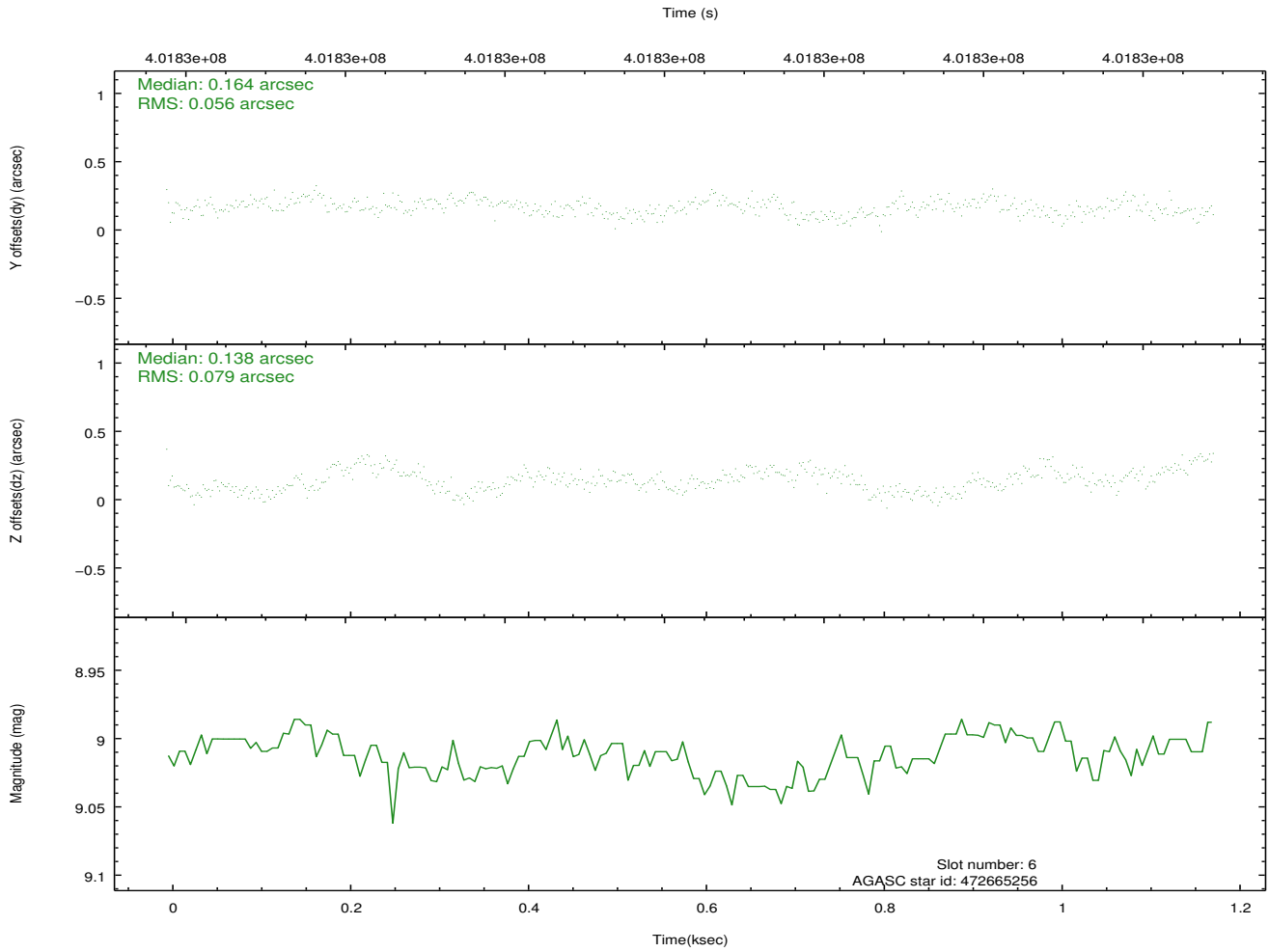
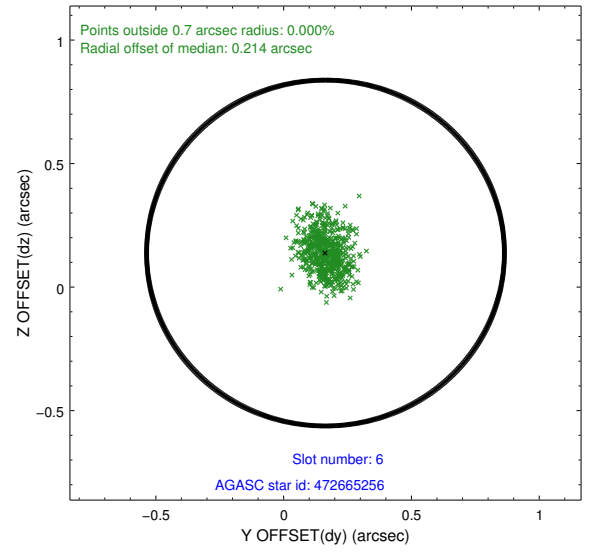
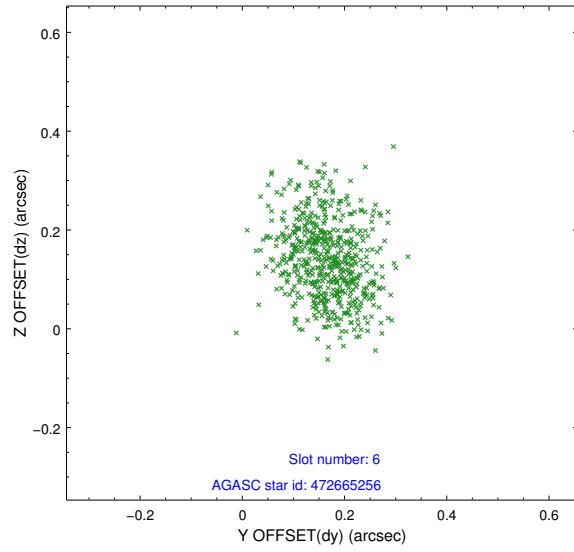
2.4.2 Slot 4



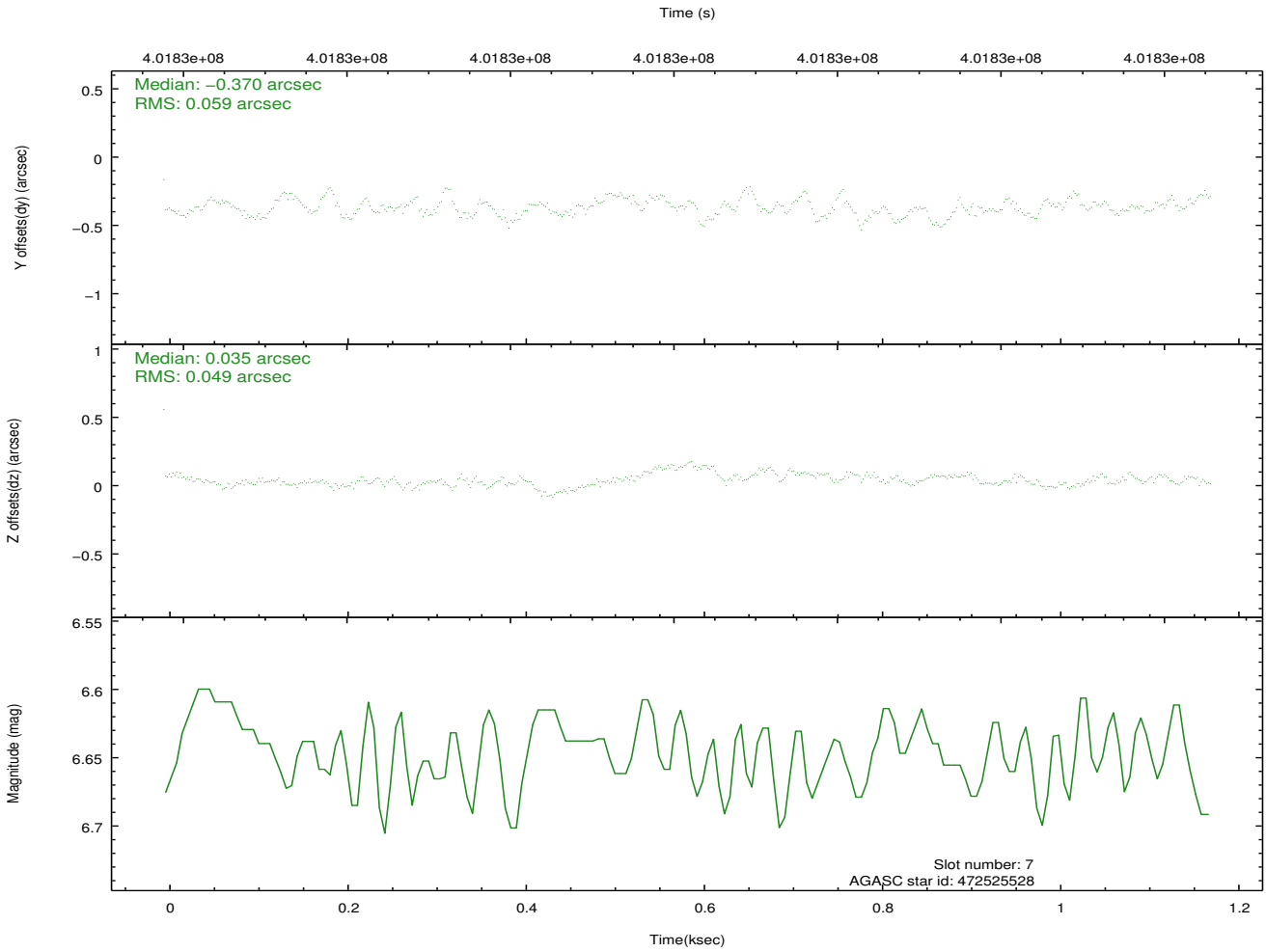
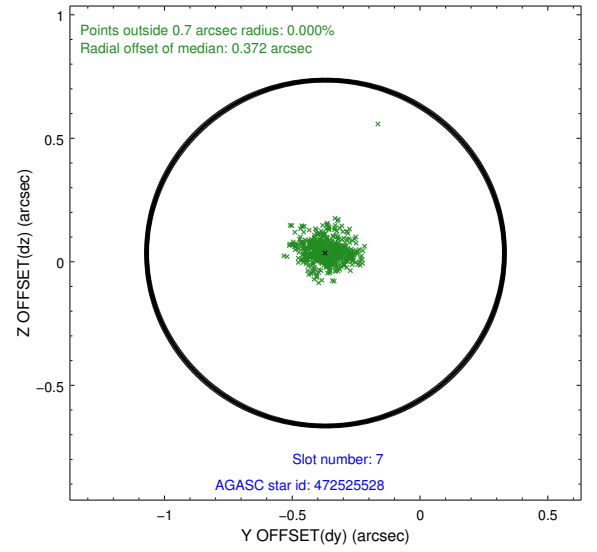
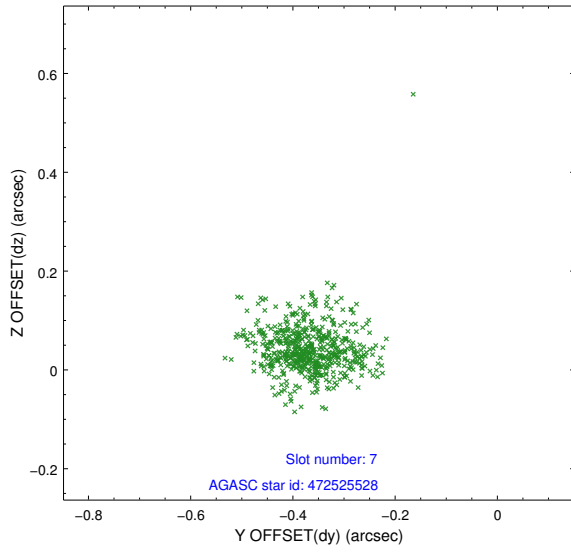
2.4.3 Slot 5



2.4.4 Slot 6

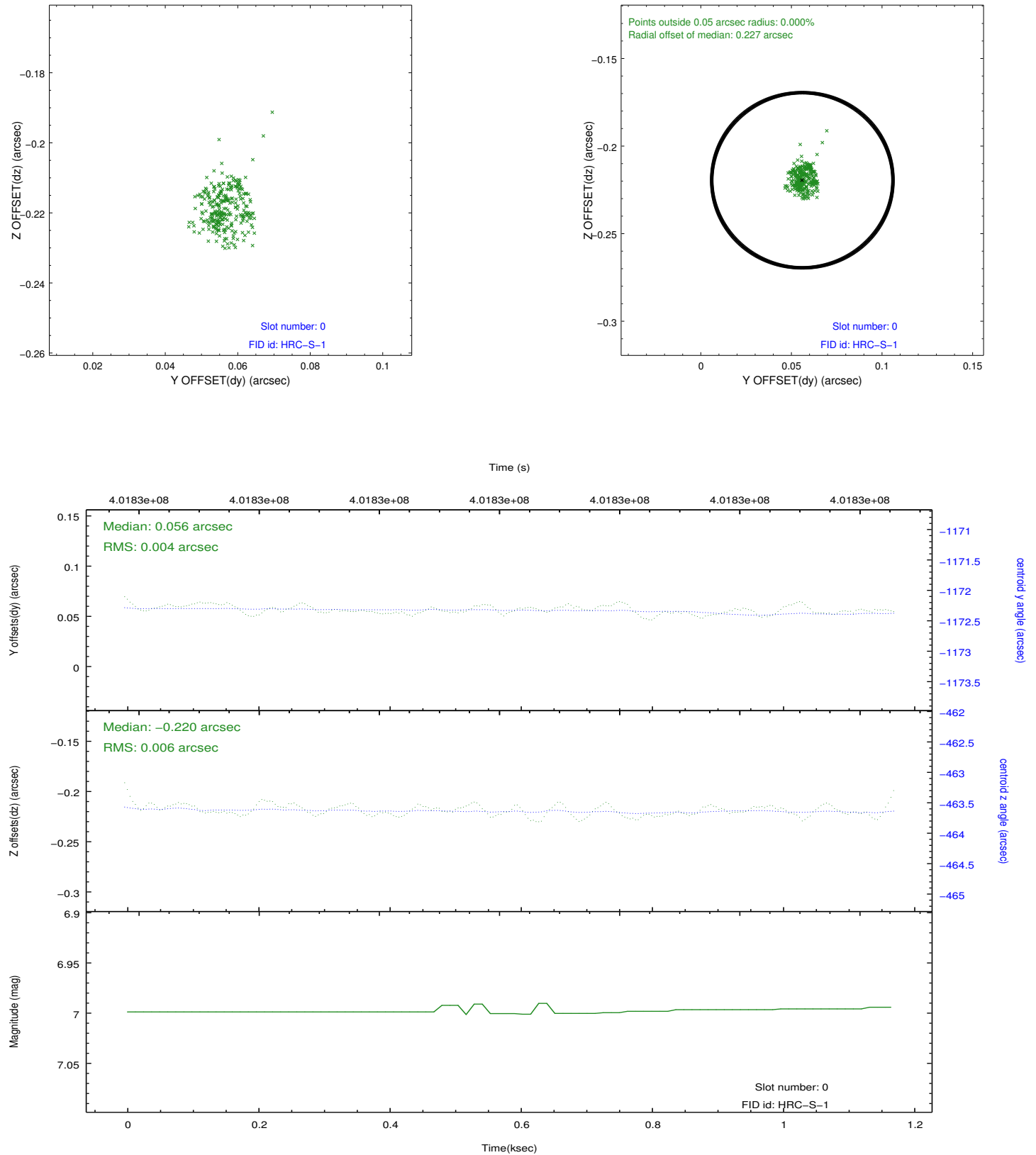


2.4.5 Slot 7

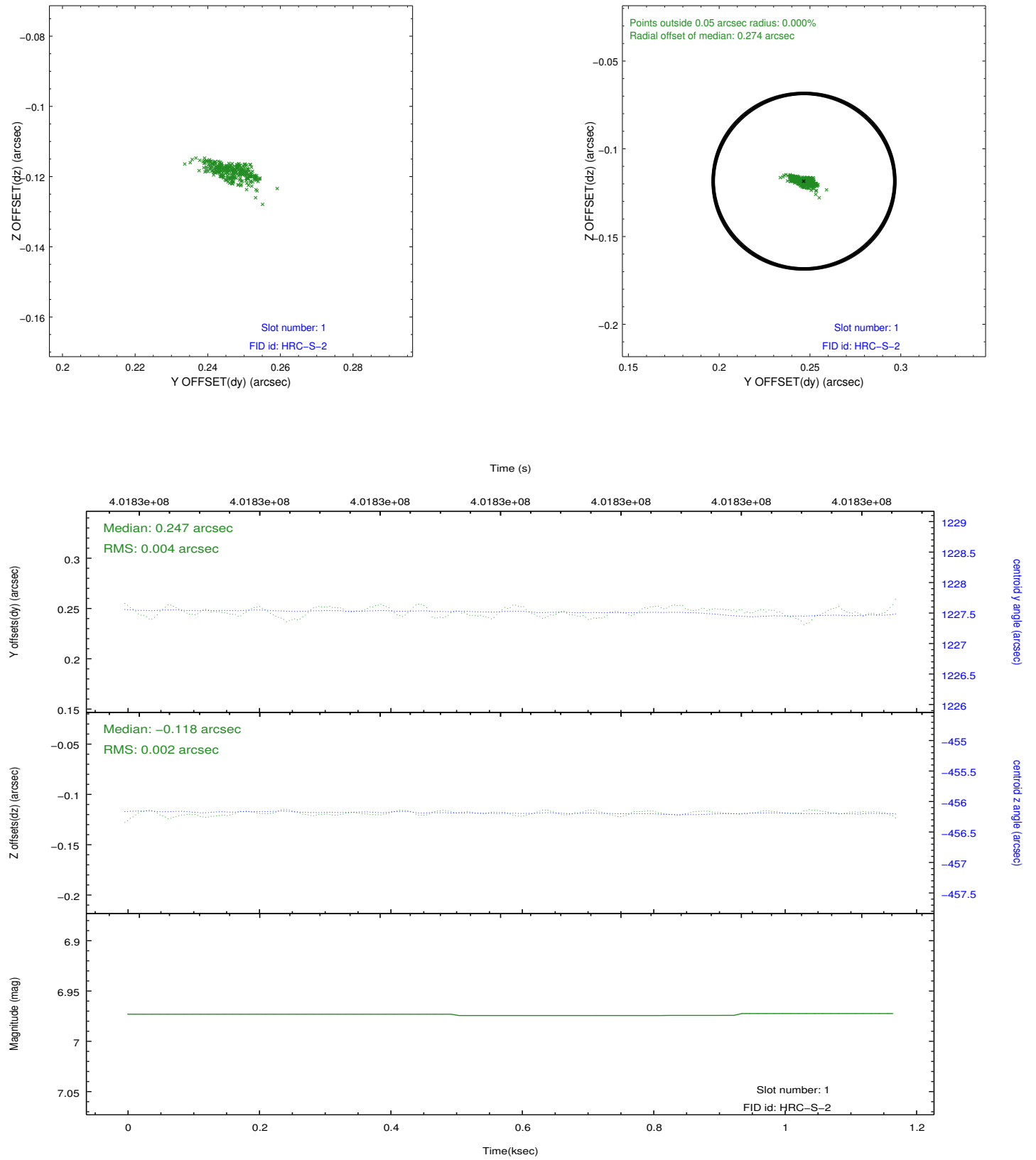


2.5 FID Slots

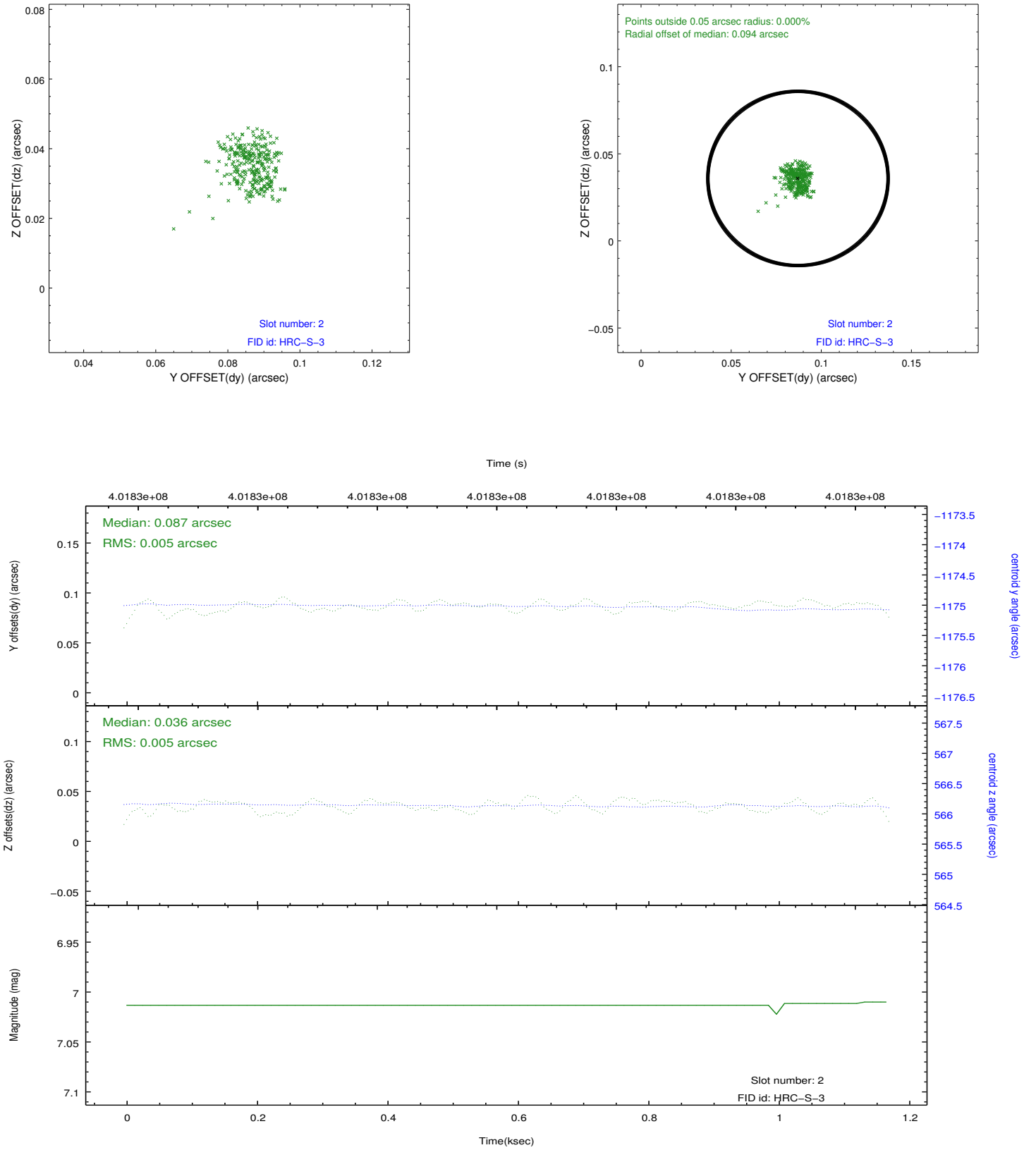
2.5.1 Slot 0



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) | 2012.07.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1469750588536 |

A.2 Comments