

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4352 - L2 Version 3
Chandra X-Ray Center

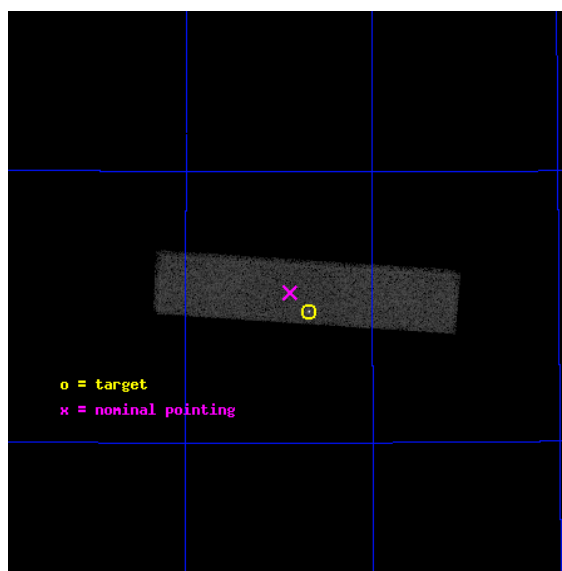
L2 Processing Date : Oct 23 2012

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1 Front

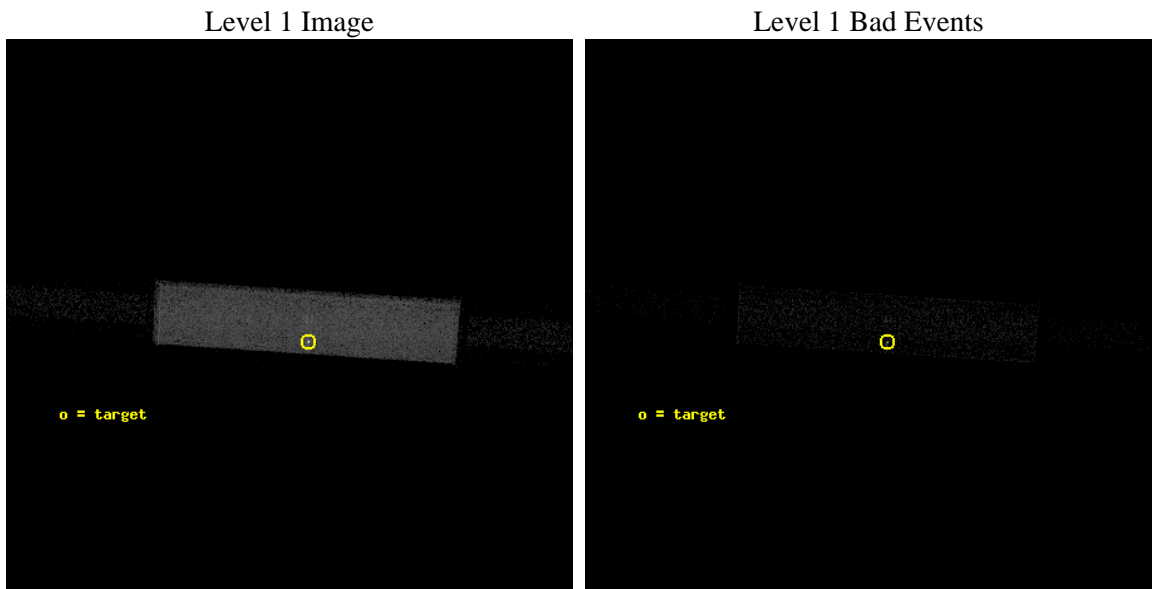
| | | |
|----------|---|---------------------------------------|
| seq_num | 290312 | Sequence number |
| obs_id | 4352 | Observation id |
| title | AO4A CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.22088009853 | Nominal RA [deg] |
| dec_nom | 45.777061146946 | Nominal Dec [deg] |
| roll_nom | 3.6576889638107 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1141.0812980235 | [s] |
| livetime | 1133.9652420841 | Ontime multiplied by DTCOR |
| l2events | 51502 | 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 | 1141.0812980235 | [s] |
| caldbver | 4.5.2 | | l1events | 87431 | Number of level 1 events |
| date | 2012-10-23T09:25:29 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

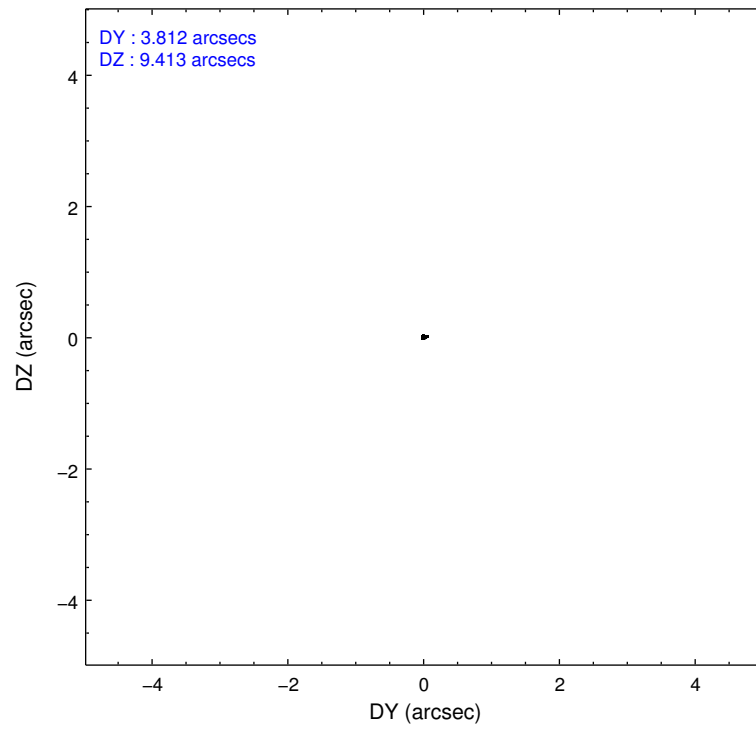
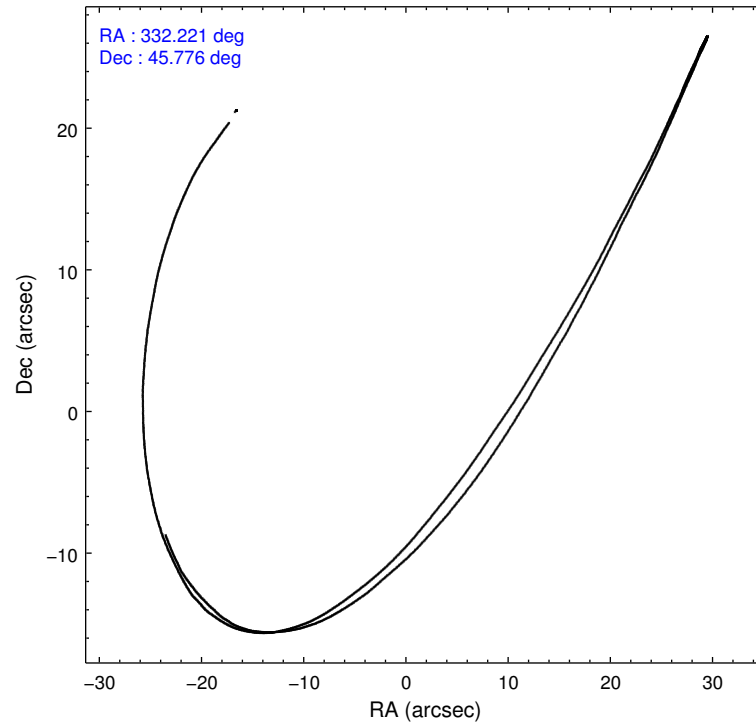
Level 1 Events

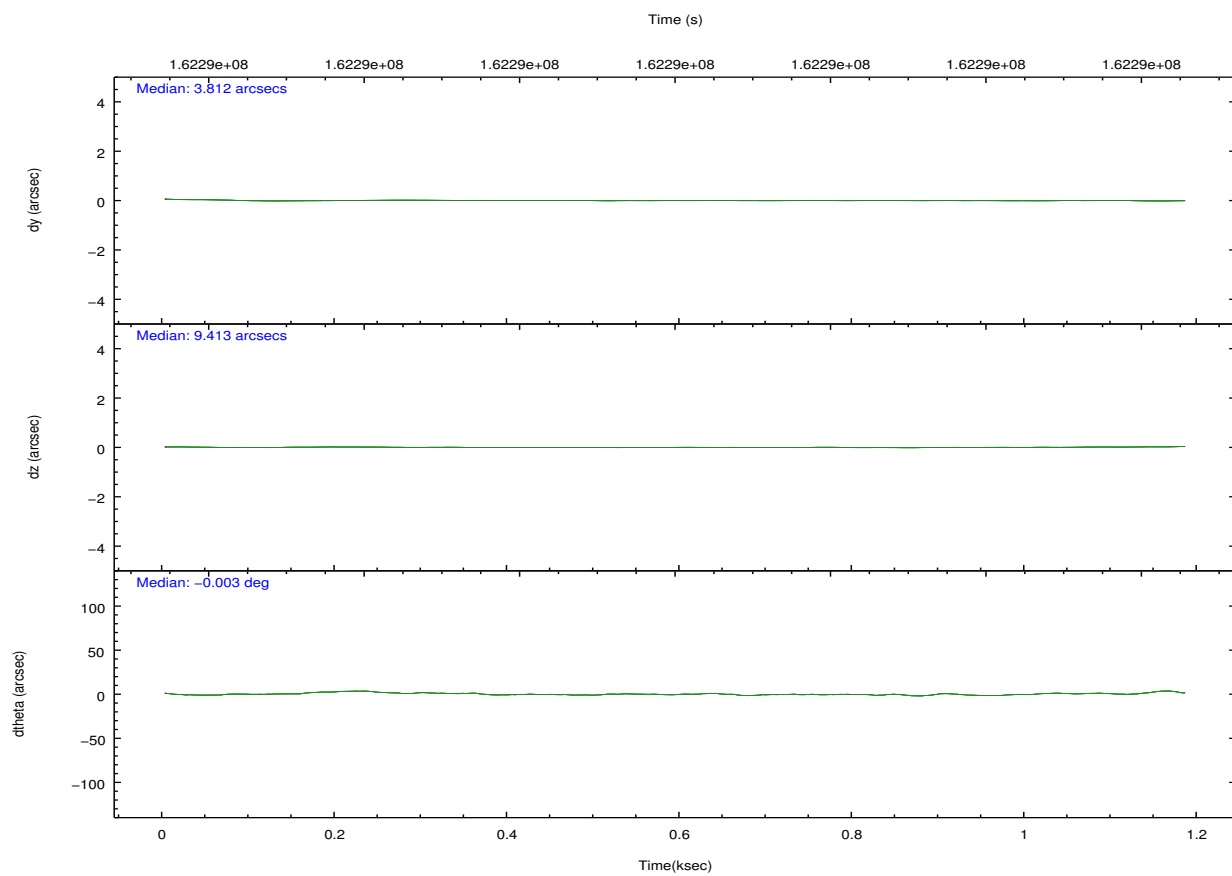
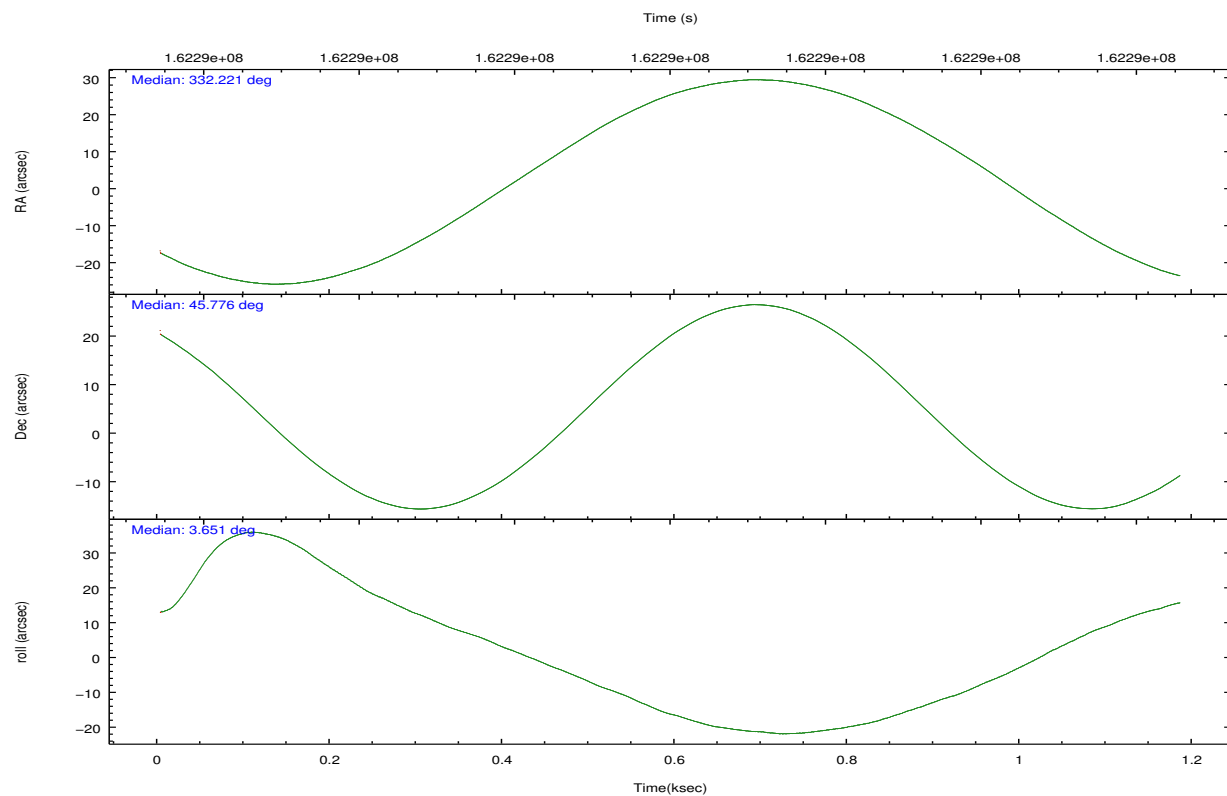
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 2600 | 82442 | 2389 |
| rejected events | 2600 | 21162 | 2389 |
| rejected % | 100% | 25% | 100% |

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 | 332.188420 | 332.220880098528 | | | |
| [deg] Pointing Dec | 45.760823 | 45.77706114694641 | | | |
| [deg] Pointing Roll | 3.613747 | 3.657688963810743 | | | |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 162291995.184000 | 162291619.53197 | | | |
| Observation start date | 2003-02-22T09:05:31 | 2003-02-22T09:00:19 | | | |
| [s] Observation end time (MET) | 162292995.184000 | 162293165.74454 | | | |
| Observation end date | 2003-02-22T09:22:11 | 2003-02-22T09:26:05 | | | |

2.3 Aspect



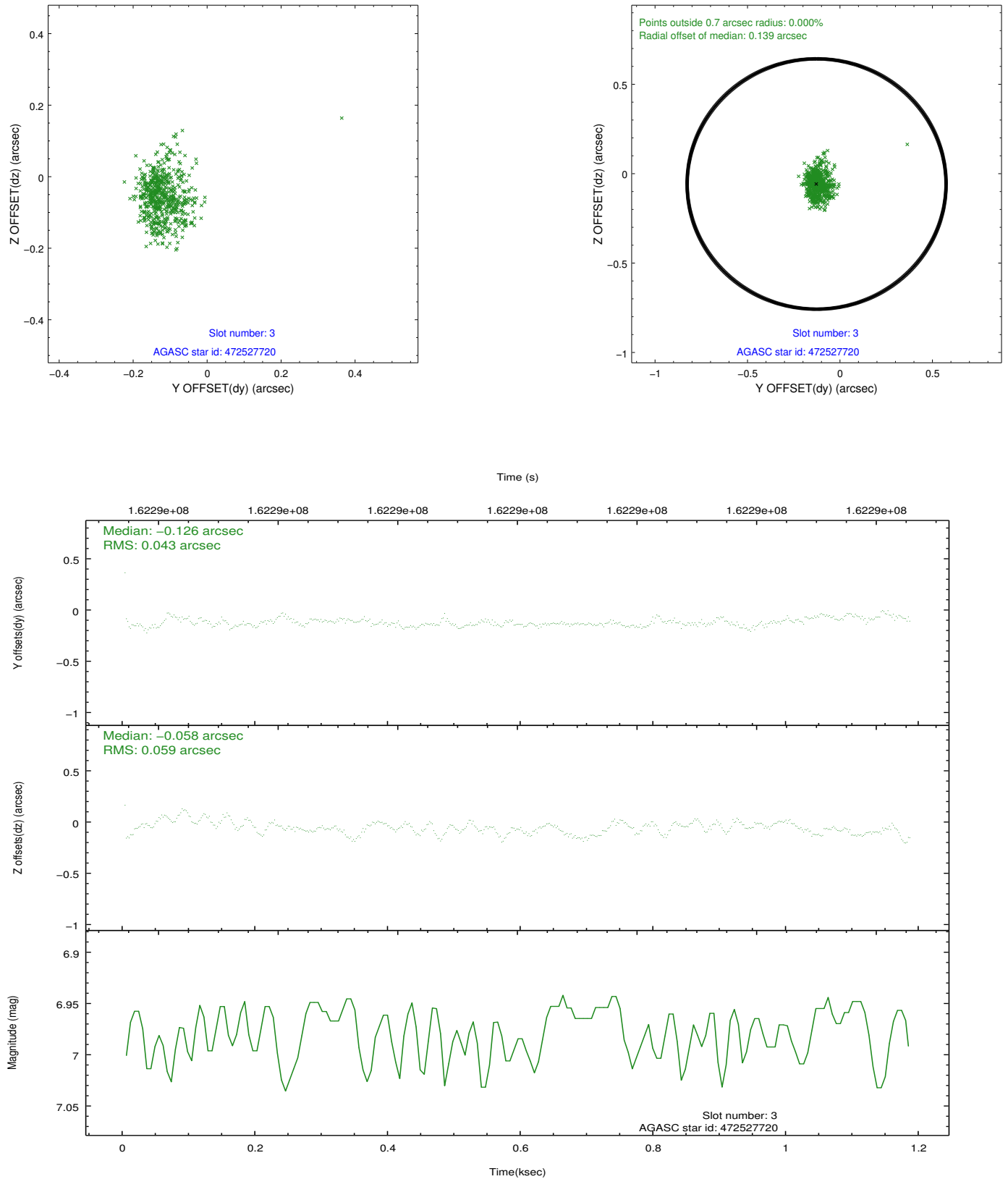


Slot Statistics

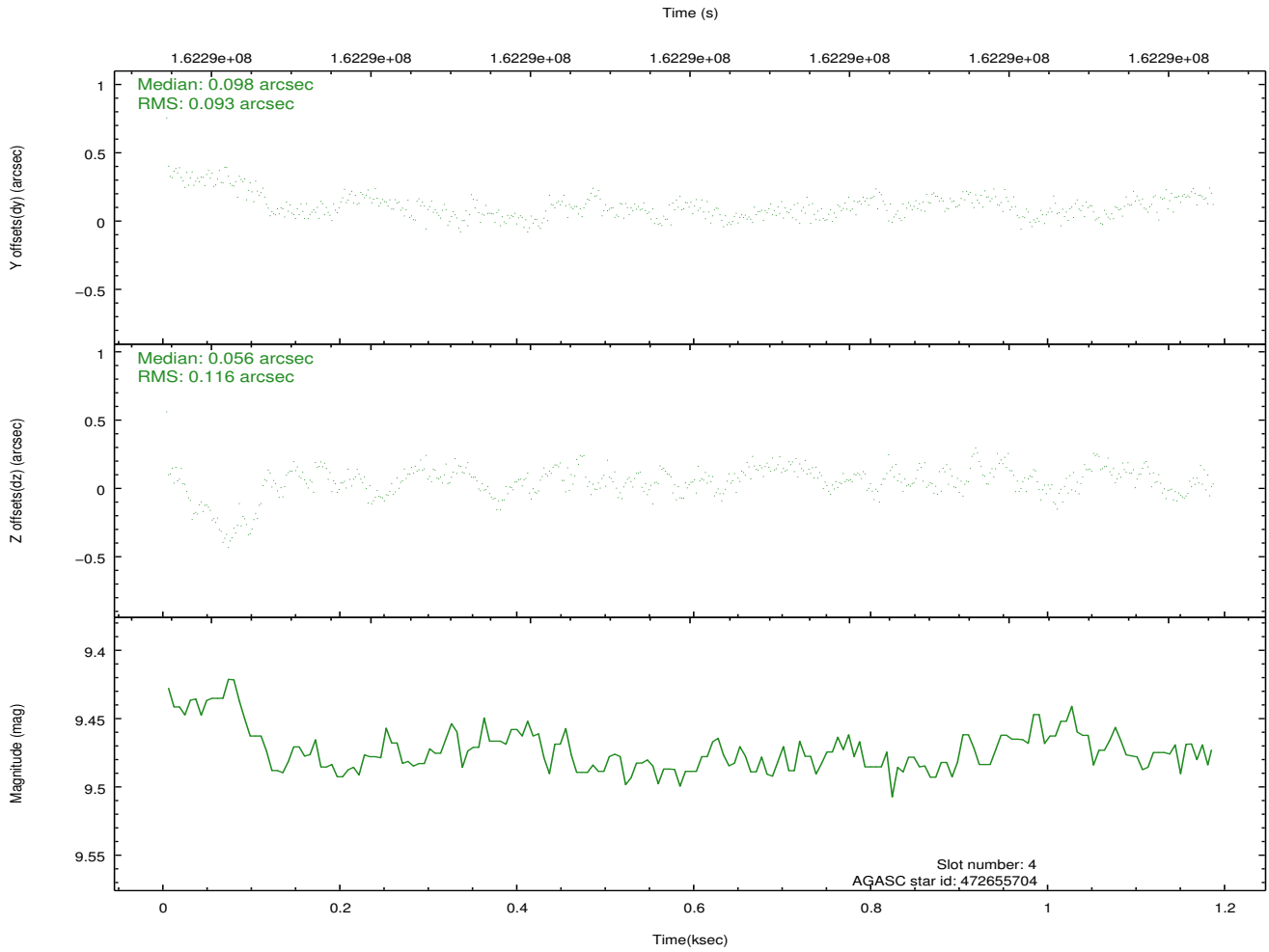
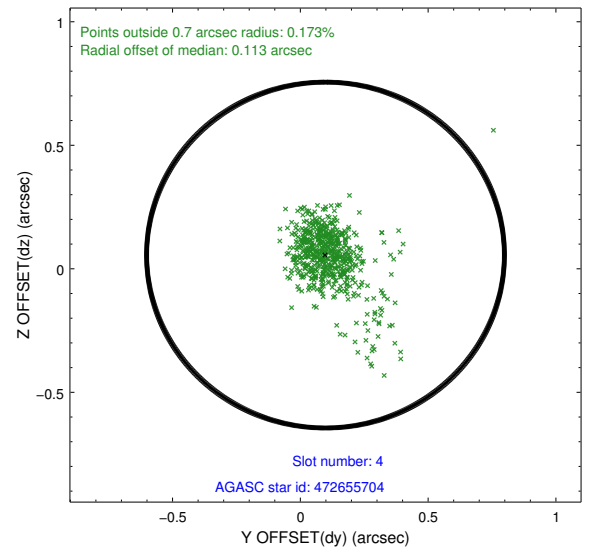
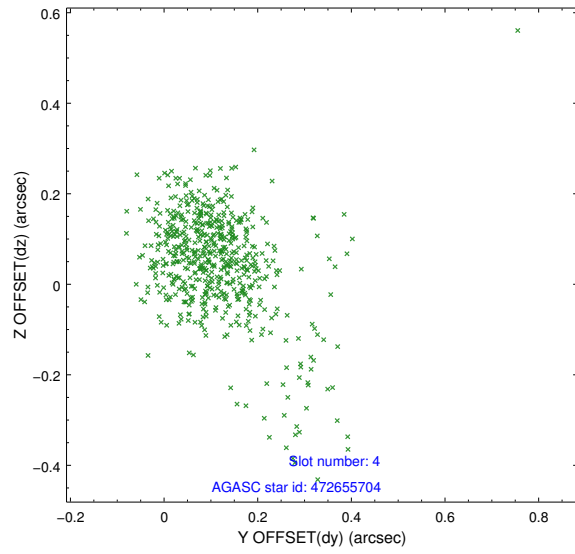
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.01 | 289 | 0.160 | -0.180 | 0.009 | 0.015 | 0.000000 | 0.000000 | -1157.85 | -458.07 |
| 1 | FID | HRC-S-2 | 6.99 | 289 | 0.077 | -0.090 | 0.008 | 0.021 | 0.000000 | 0.000000 | 1237.74 | -452.24 |
| 2 | FID | HRC-S-3 | 7.02 | 289 | 0.155 | -0.032 | 0.006 | 0.013 | 0.000000 | 0.000000 | -1156.28 | 570.04 |
| 3 | GUIDE | 472527720 | 6.98 | 578 | -0.126 | -0.058 | 0.074 | 0.127 | 331.460205 | 45.112509 | -1991.44 | -2201.65 |
| 4 | GUIDE | 472655704 | 9.48 | 578 | 0.098 | 0.056 | 0.126 | 0.307 | 332.167195 | 45.285228 | -163.21 | -1706.11 |
| 5 | GUIDE | 472659832 | 9.46 | 578 | 0.048 | 0.084 | 0.083 | 0.134 | 332.780399 | 46.098139 | 1552.88 | 1124.59 |
| 6 | GUIDE | 472523760 | 8.24 | 578 | -0.079 | -0.047 | 0.079 | 0.128 | 331.645363 | 45.403260 | -1446.54 | -1188.80 |
| 7 | GUIDE | 472533912 | 9.18 | 577 | 0.040 | -0.018 | 0.113 | 0.200 | 331.791136 | 46.368695 | -848.12 | 2249.48 |

2.4 Star Slots

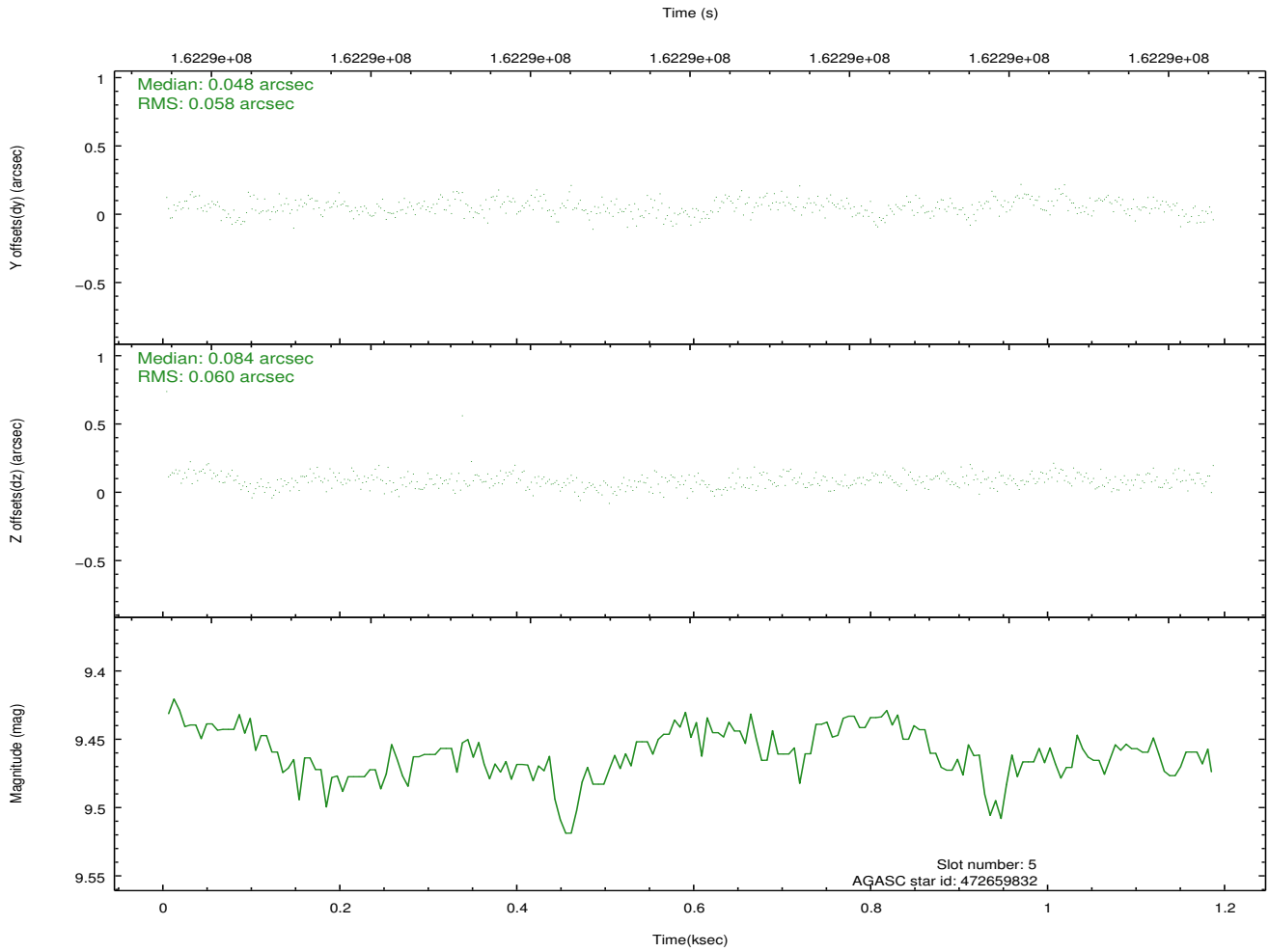
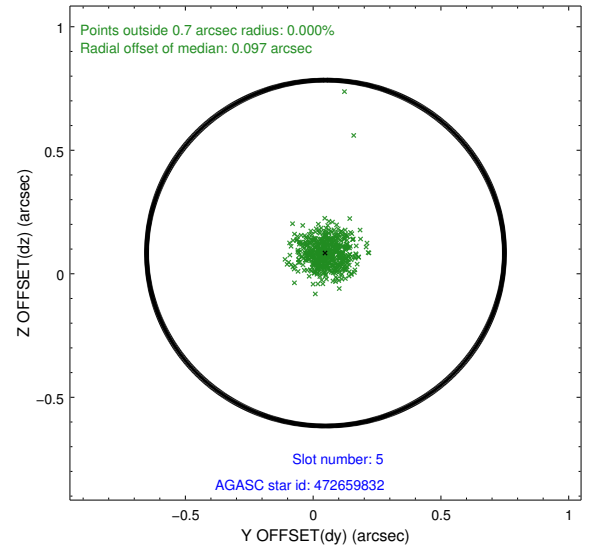
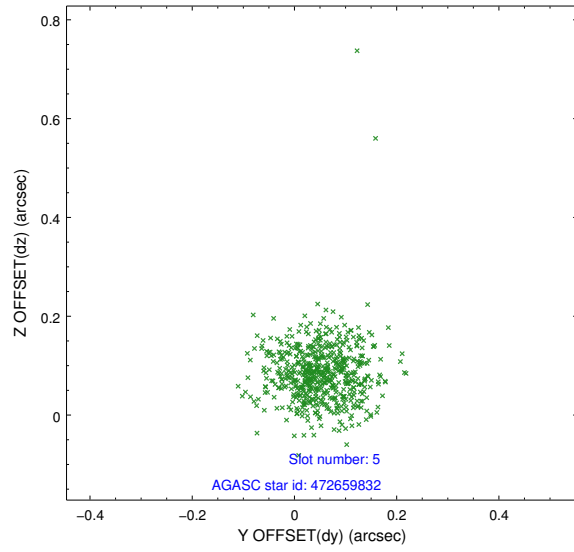
2.4.1 Slot 3



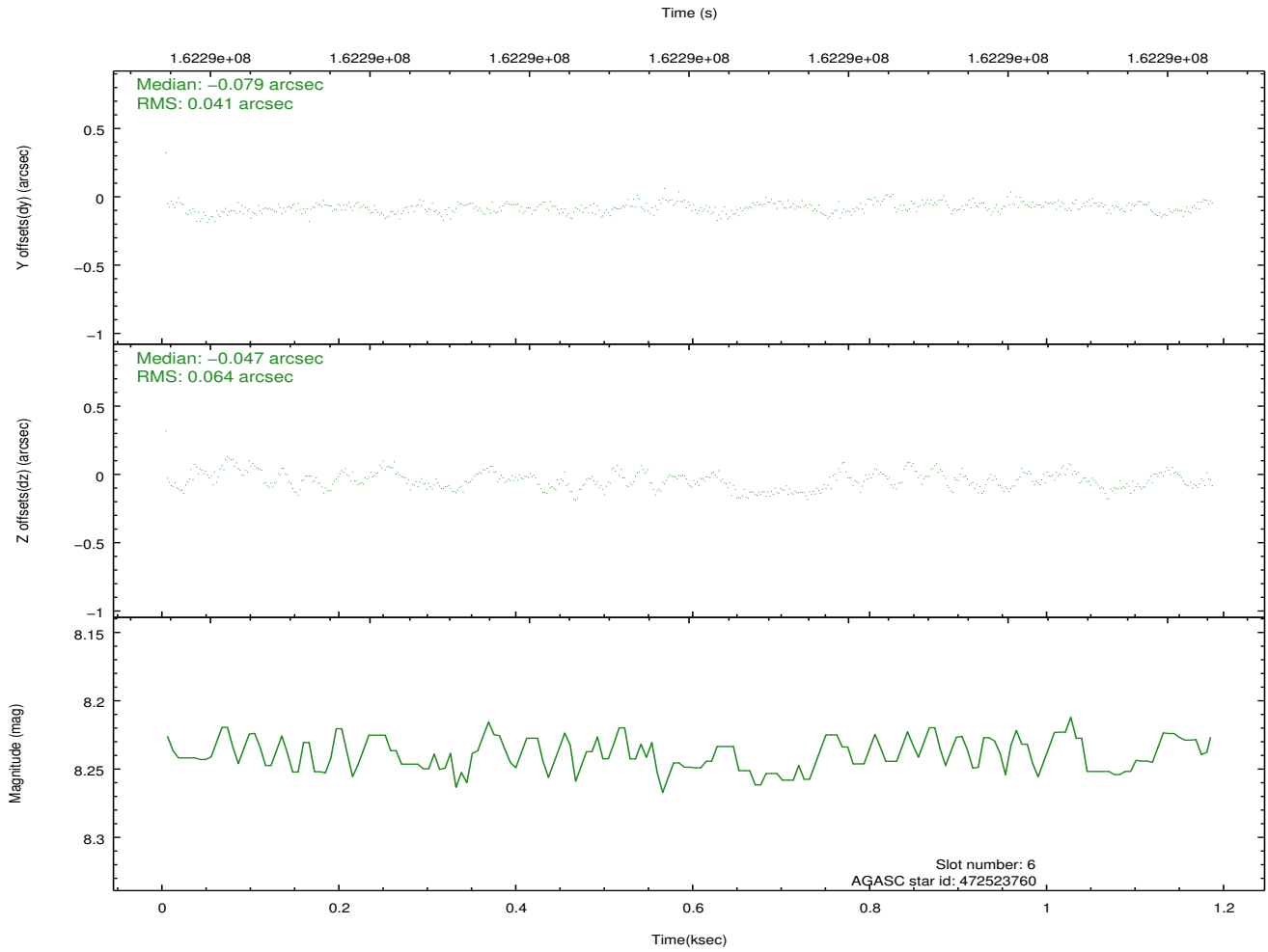
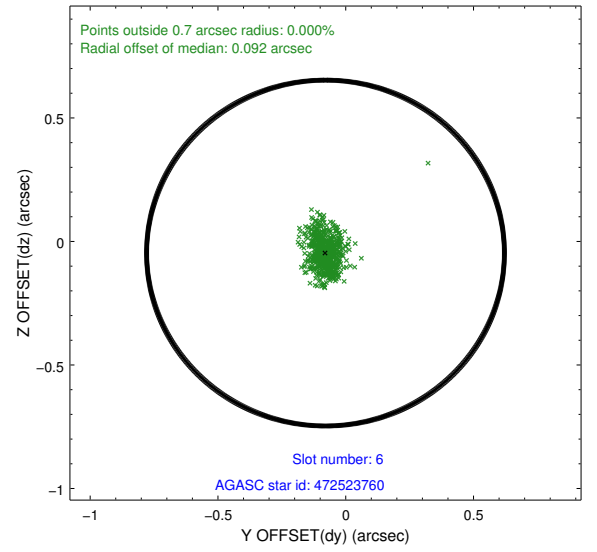
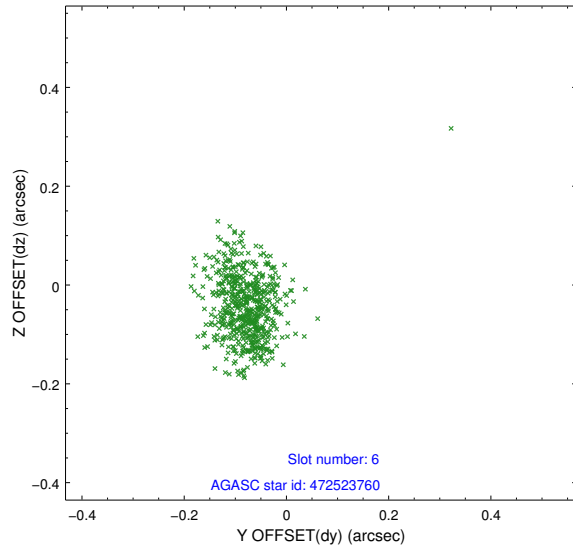
2.4.2 Slot 4



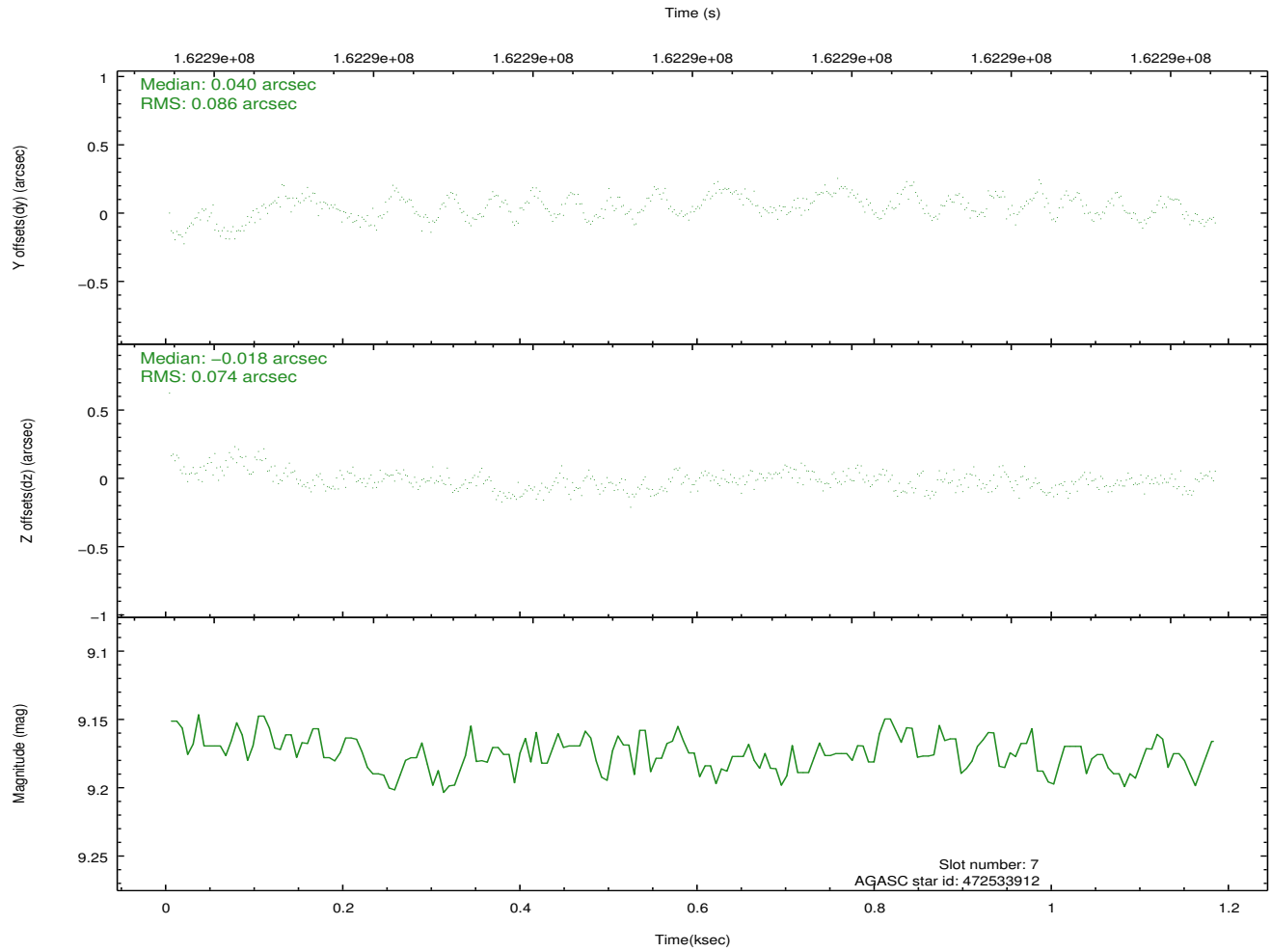
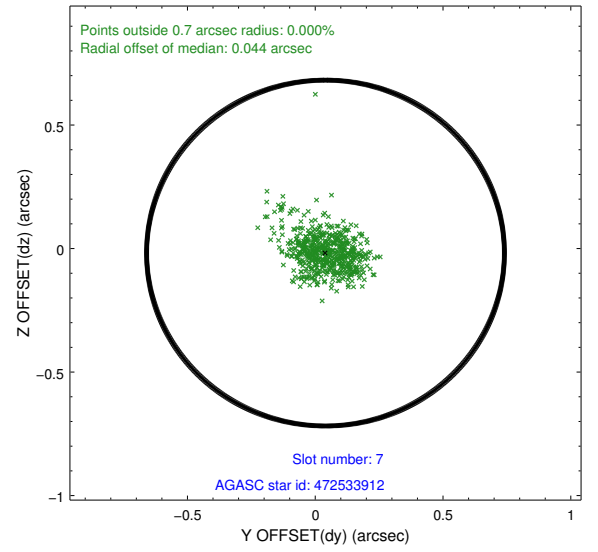
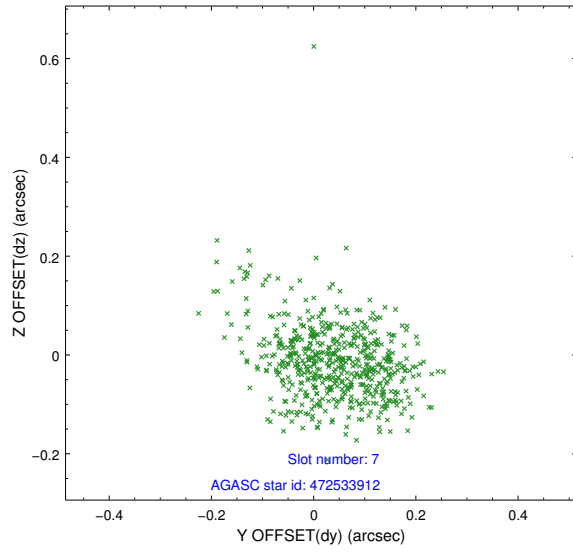
2.4.3 Slot 5



2.4.4 Slot 6

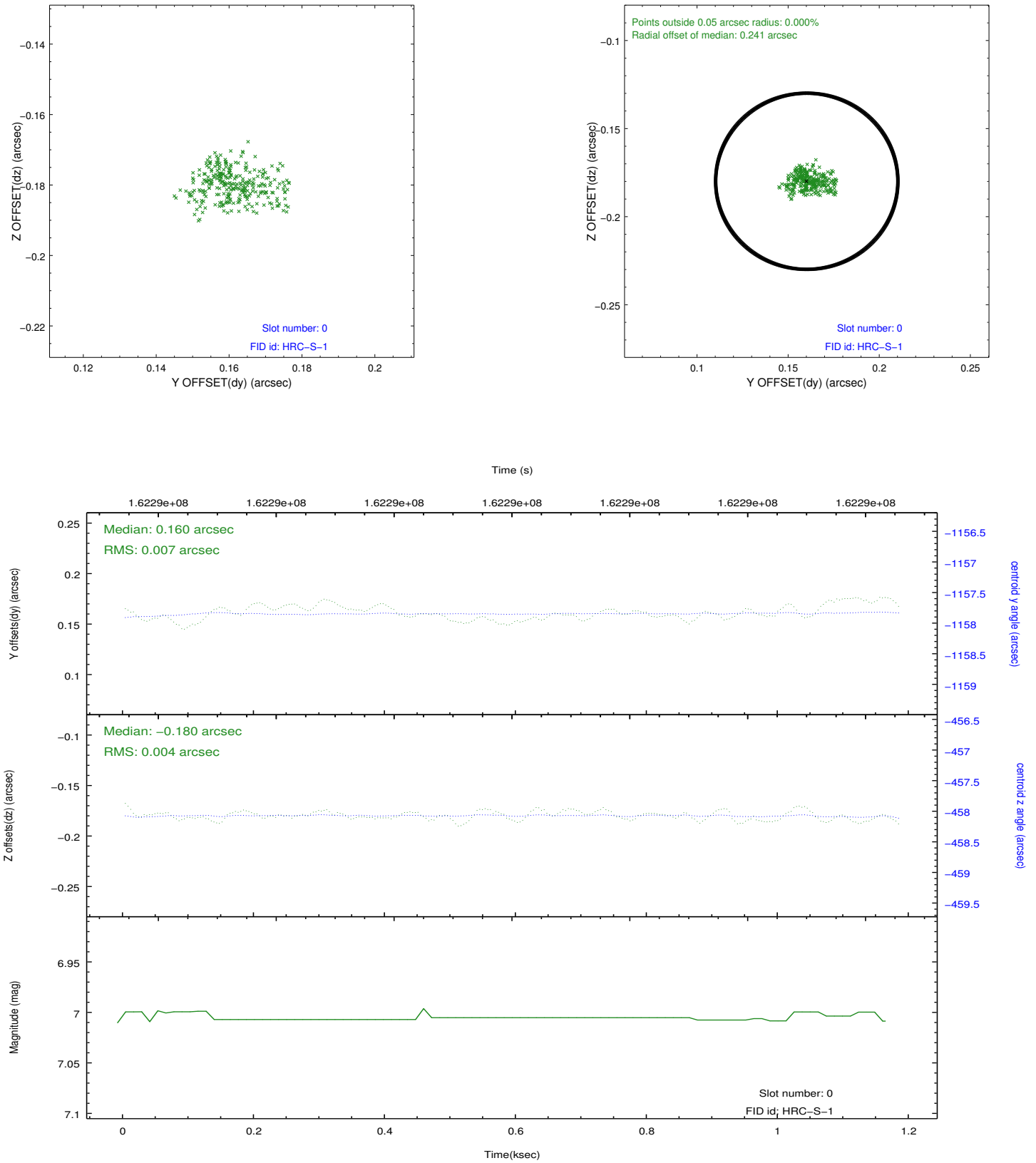


2.4.5 Slot 7

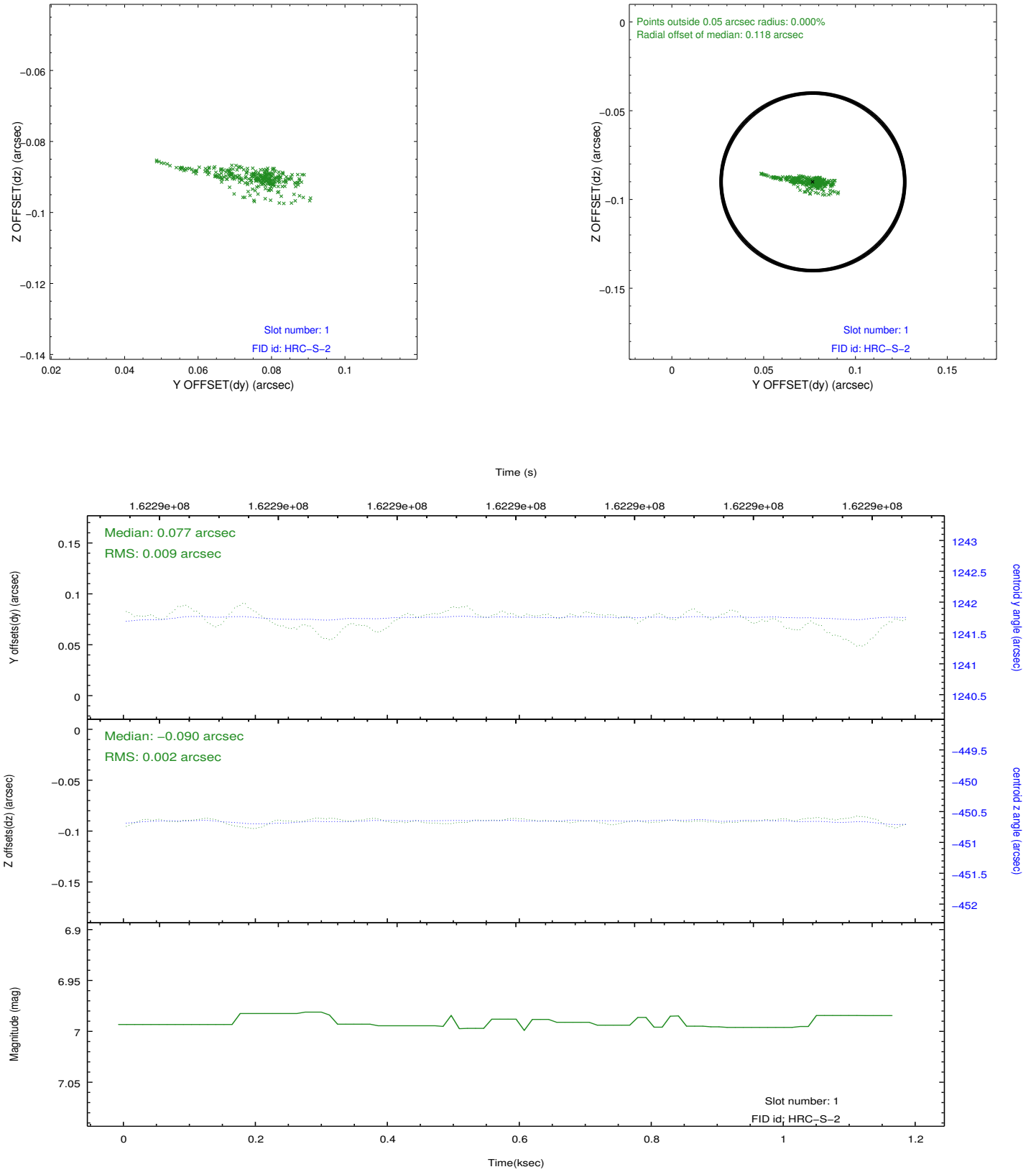


2.5 FID Slots

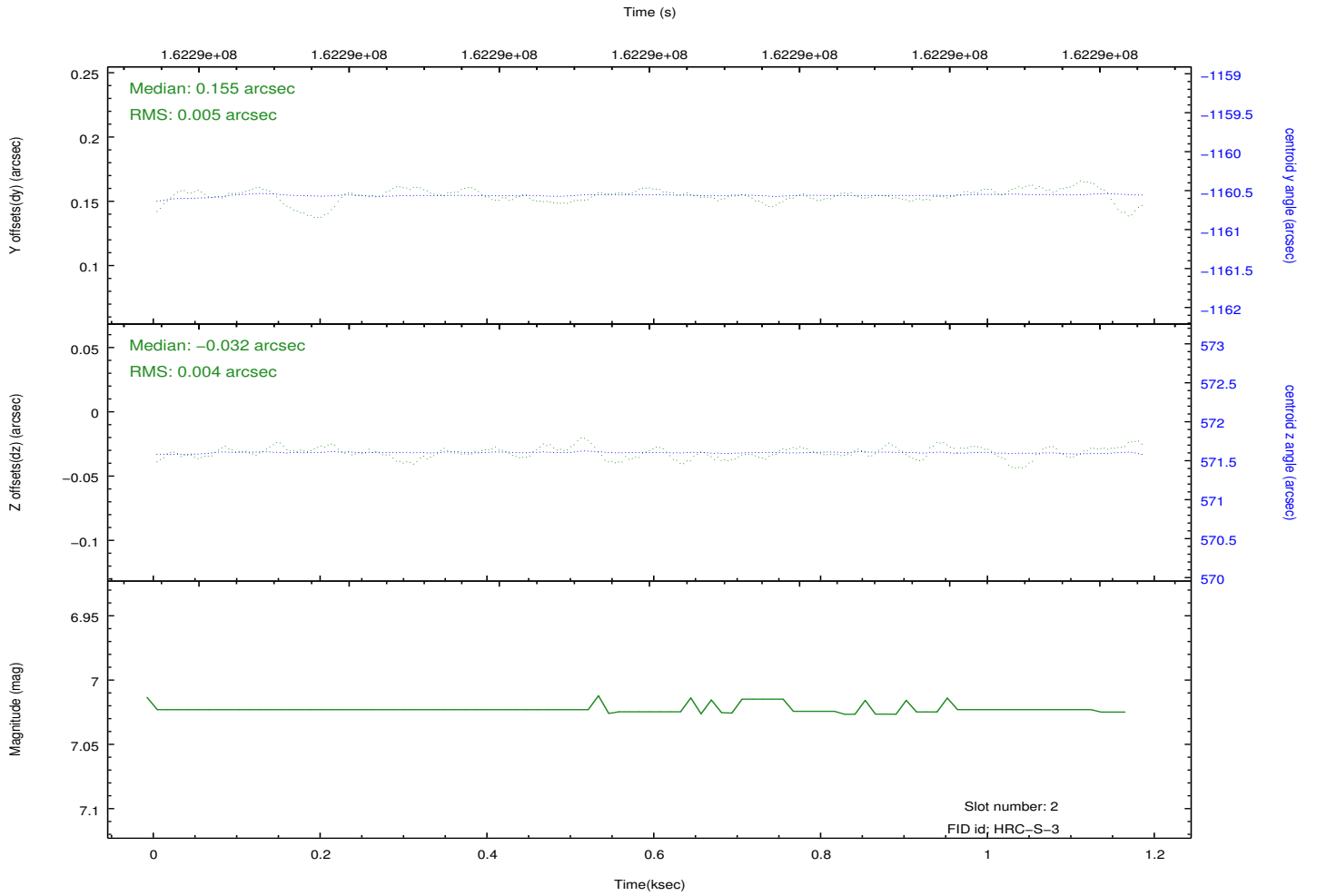
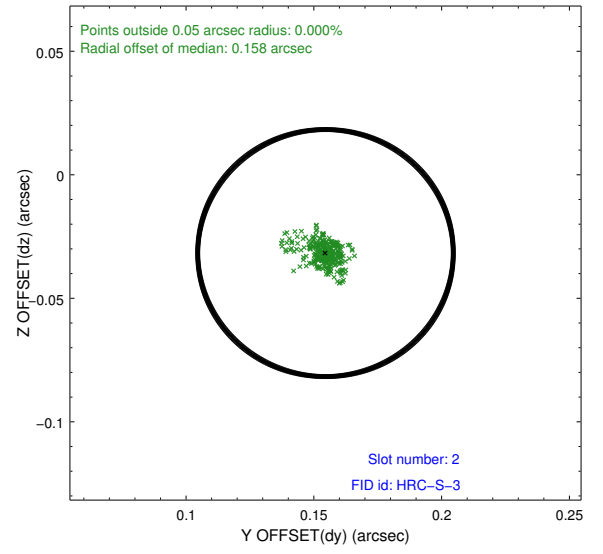
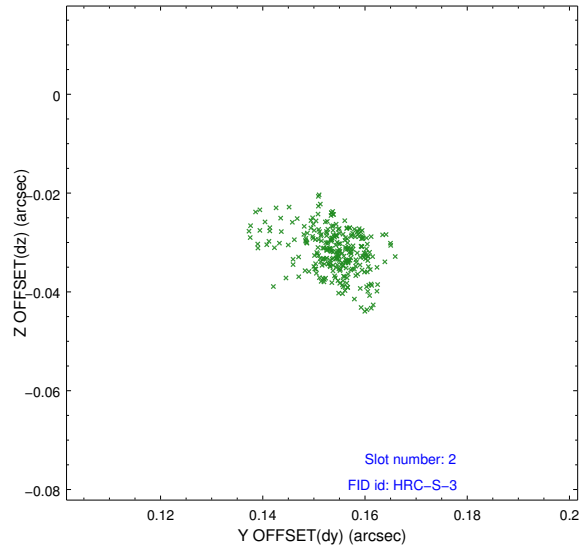
2.5.1 Slot 0



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) | 2012.11.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.141 |

A.2 Comments

Monitor constraint not met.