

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16382 - L2 Version 1
Chandra X-Ray Center

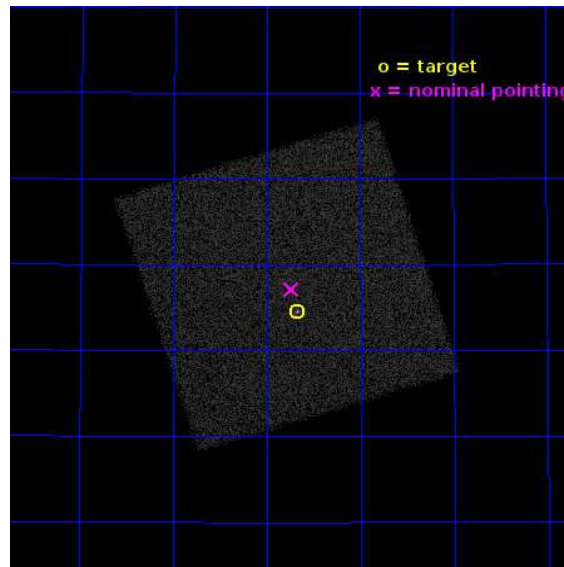
L2 Processing Date : Sep 16 2014

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1 Front

| | | |
|----------|--|---------------------------------------|
| seq_num | 291154 | Sequence number |
| obs_id | 16382 | Observation id |
| title | AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-I 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 | 332.18483508165 | Nominal RA [deg] |
| dec_nom | 45.785726072314 | Nominal Dec [deg] |
| roll_nom | 207.49266722746 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 1188.23131603 | [s] |
| livetime | 1178.700476062 | Ontime multiplied by DTCOR |
| l2events | 77381 | Number of level 2 events |

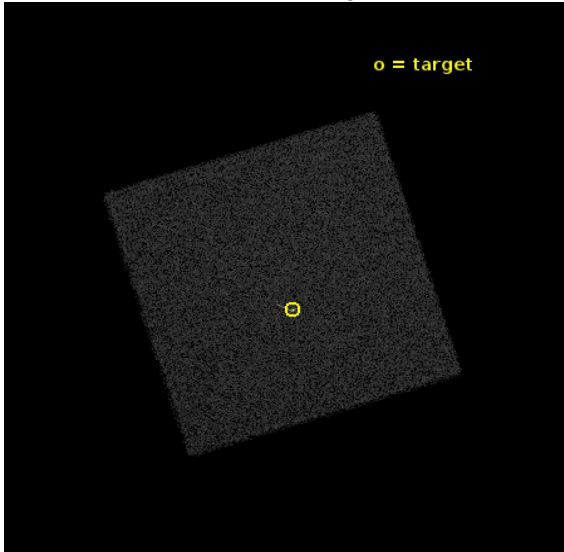


2 OBI

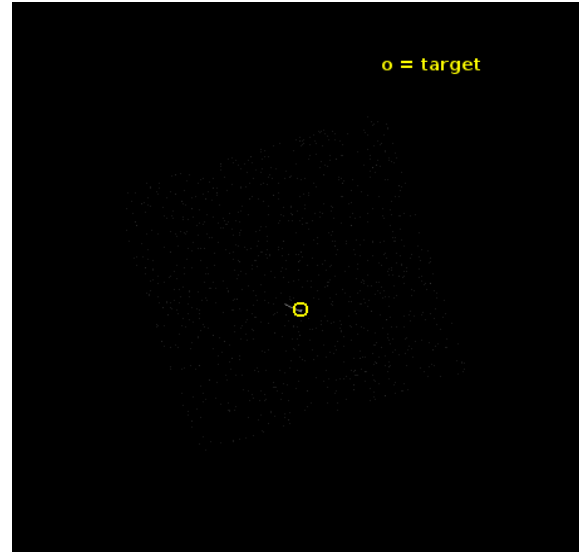
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|---------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.2.4 | Processing system revision | ontime | 1188.23131603 | [s] |
| caldbver | 4.6.3 | | l1events | 129777 | Number of level 1 events |
| date | 2014-09-16T20:19:58 | Date and time of file creation | | | |
| revision | 1 | Processing version of data | | | |

2.1.3 Events

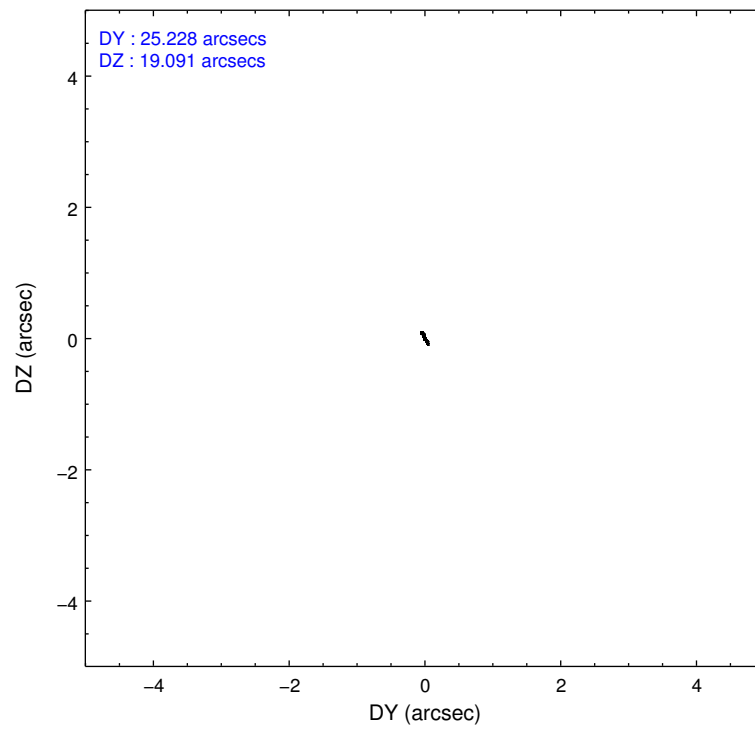
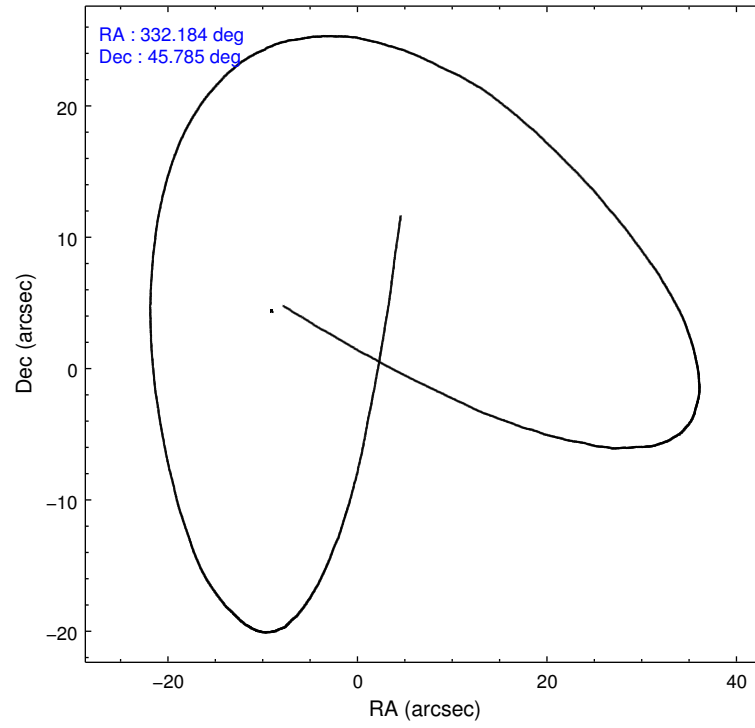
Level 1 Events

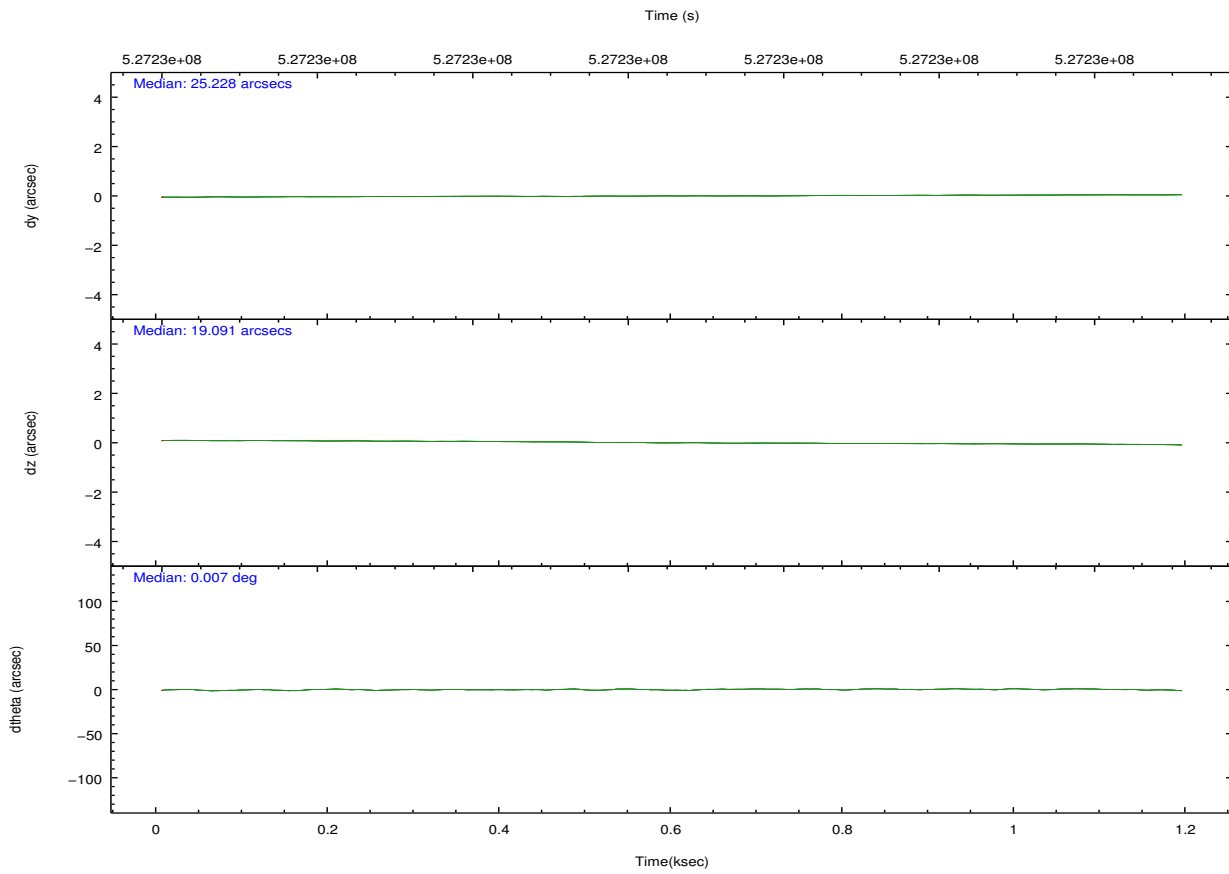
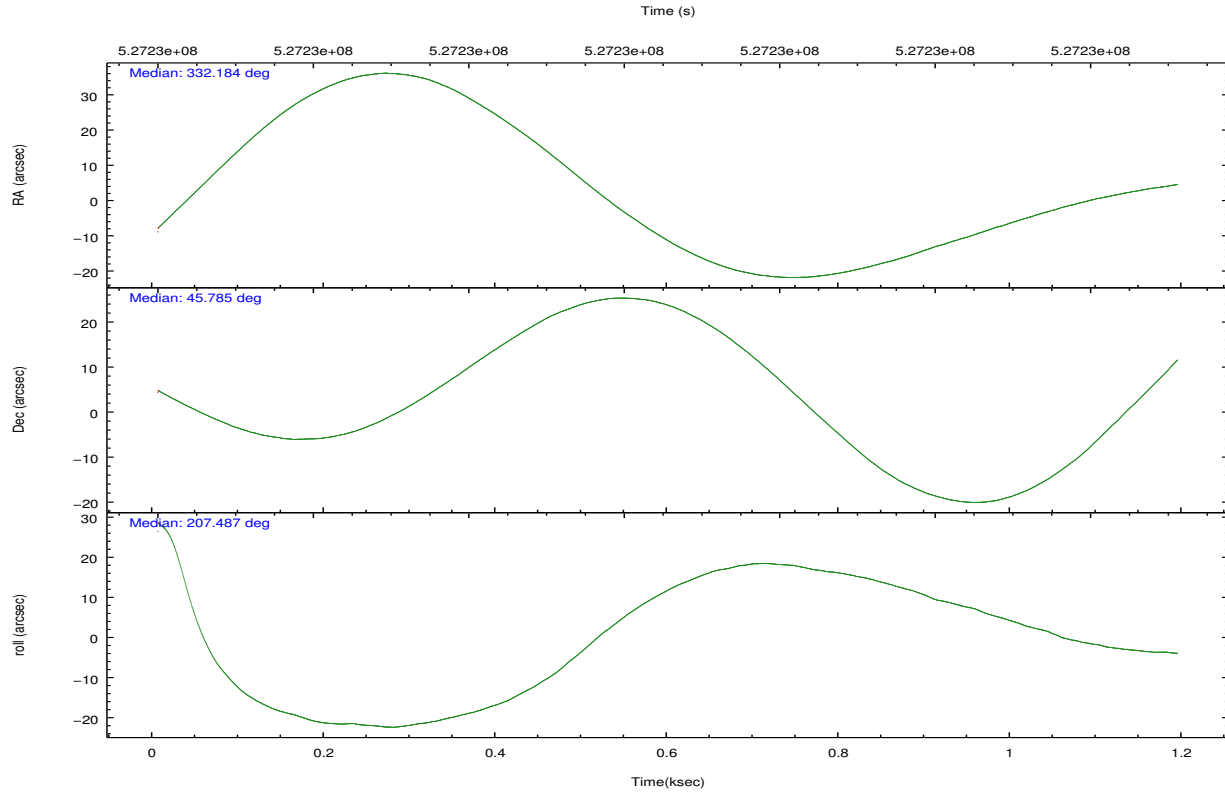
| | segment 0 |
|-----------------|----------------------|
| level 1 events | 129777 |
| rejected events | 27599 |
| rejected % | 21% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-I | HRC-I | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 332.204388 | 332.1848350816545 | | | |
| [deg] Pointing Dec | 45.810124 | 45.78572607231351 | | | |
| [deg] Pointing Roll | 207.573802 | 207.4926672274619 | | | |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 | | | |
| [mm] SIM defocus | 0 | 0.001426264420575141 | | | |
| [mm] SIM translation stage pos | 126.985494 | 126.9829799899862 | | | |
| [mm] SIM translation stage offset | 0 | 0.002508901615314585 | | | |
| [s] Observation start time (MET) | 527232261.184000 | 527231885.38865 | | | |
| Observation start date | 2014-09-16T05:23:14 | 2014-09-16T05:18:05 | | | |
| [s] Observation end time (MET) | 527233261.184000 | 527233395.21373 | | | |
| Observation end date | 2014-09-16T05:39:54 | 2014-09-16T05:43:15 | | | |

2.3 Aspect



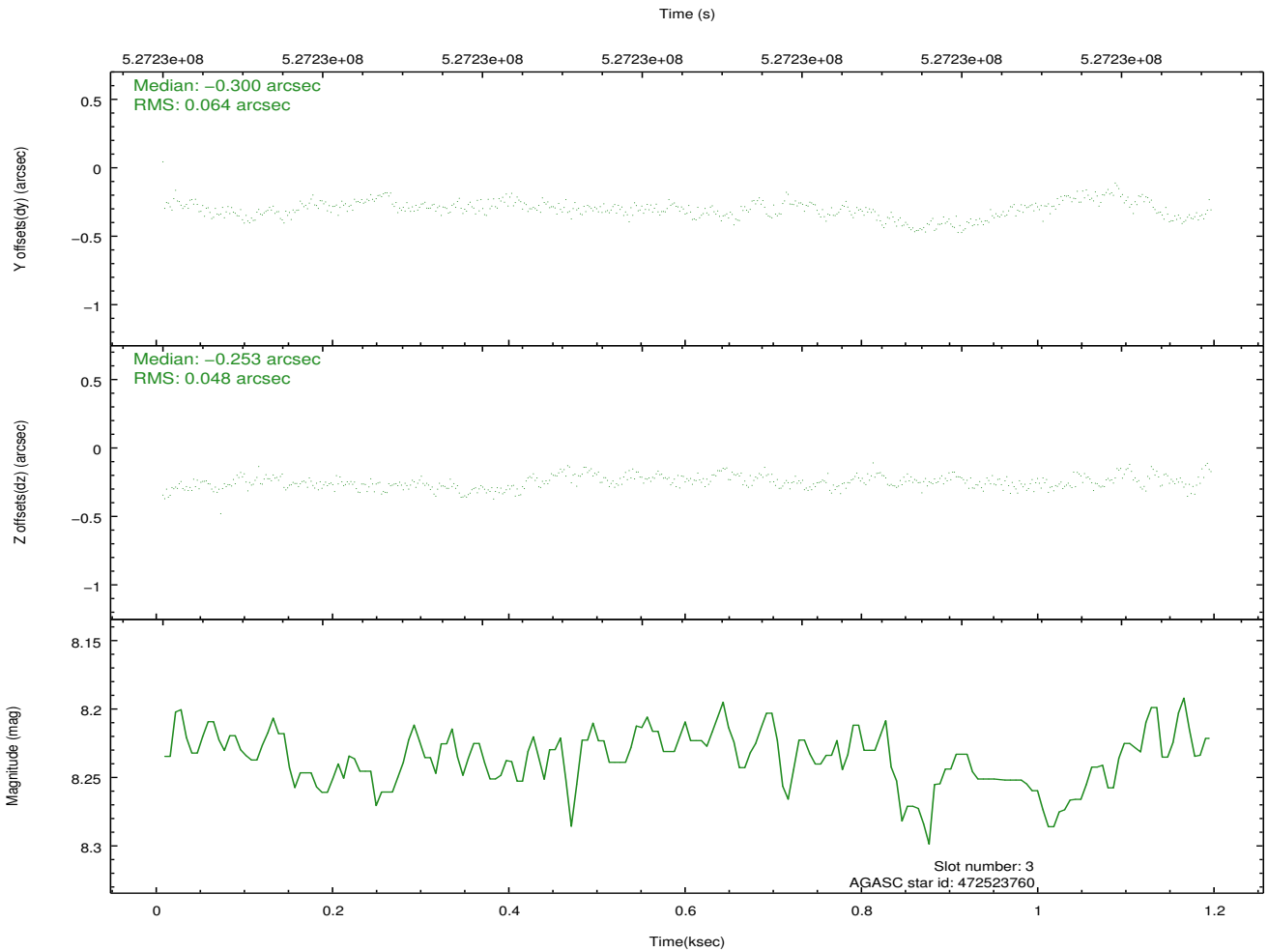
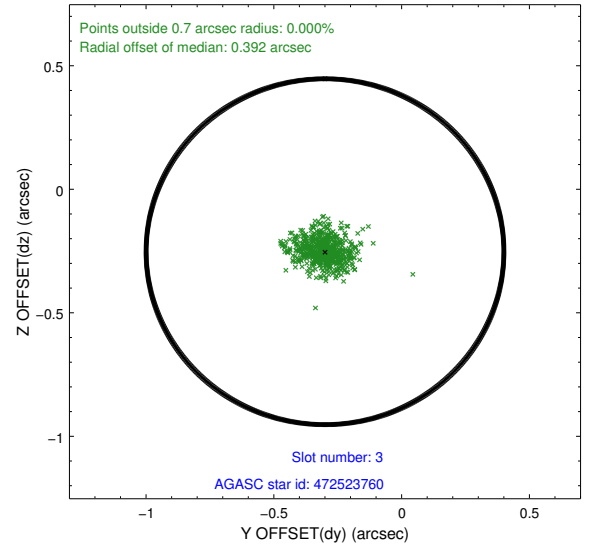
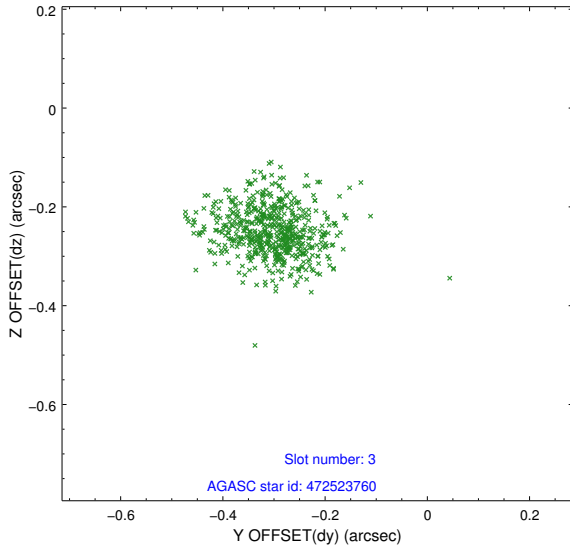


Slot Statistics

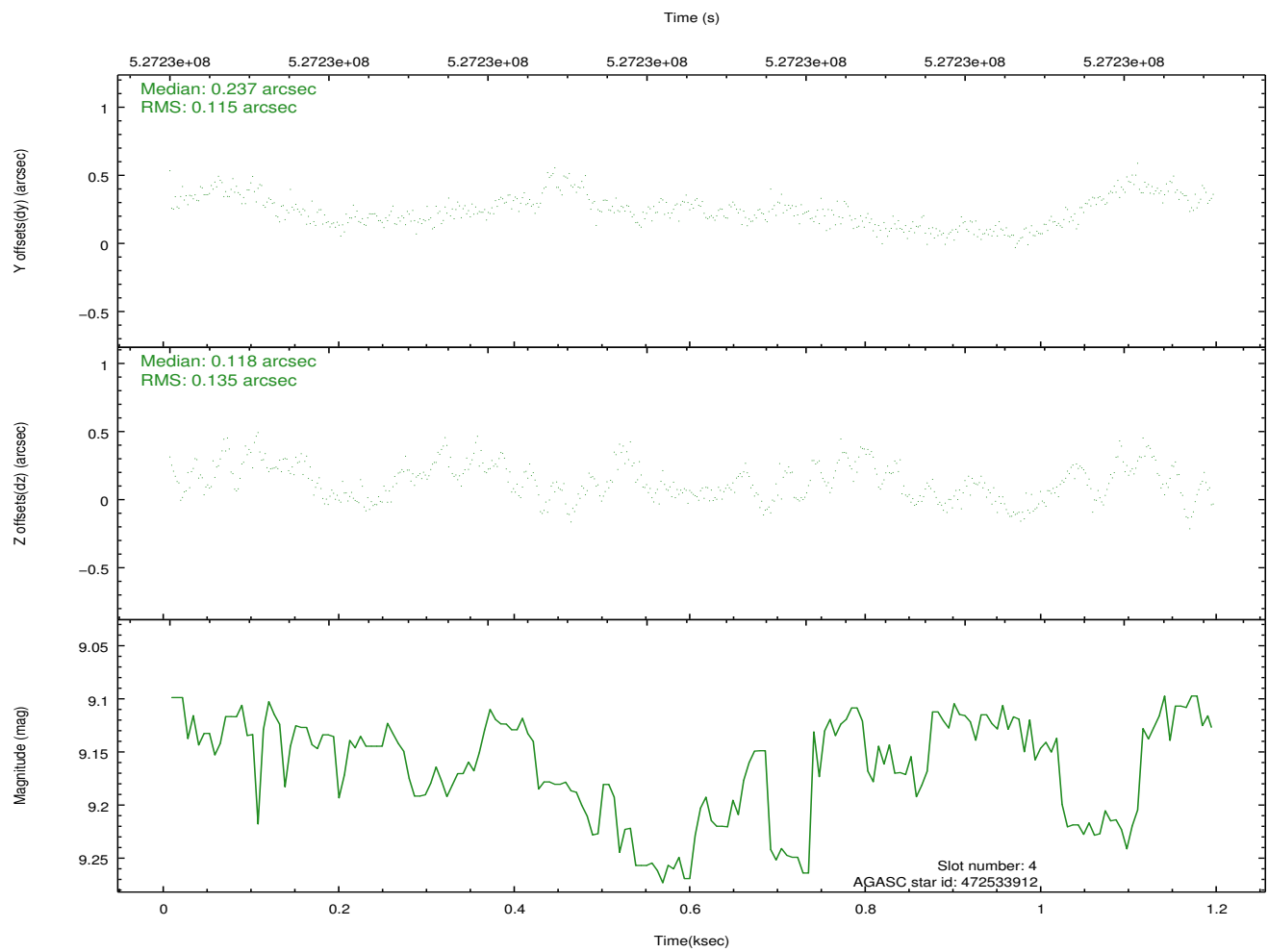
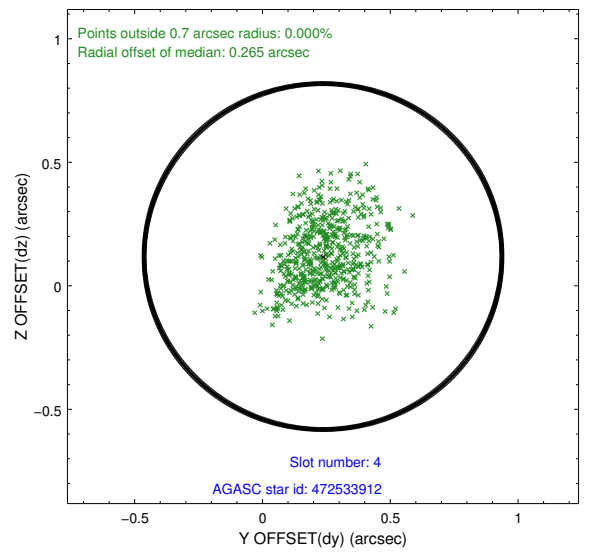
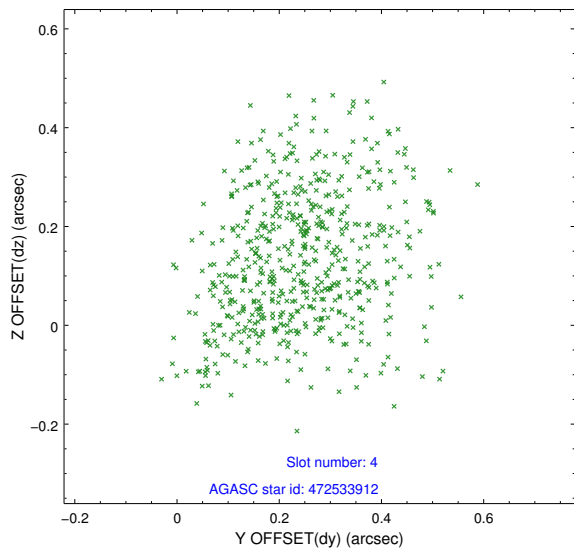
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 7.02 | 291 | -0.133 | 0.007 | 0.008 | 0.011 | 0.000000 | 0.000000 | -781.40 | -1307.33 |
| 1 | FID | HRC-I-2 | 7.06 | 291 | 0.247 | -0.077 | 0.006 | 0.009 | 0.000000 | 0.000000 | 828.93 | -1313.42 |
| 2 | FID | HRC-I-3 | 7.12 | 291 | 0.006 | -0.019 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1206.98 | 992.68 |
| 3 | GUIDE | 472523760 | 8.23 | 581 | -0.300 | -0.253 | 0.086 | 0.138 | 331.645363 | 45.403260 | 1928.41 | 635.98 |
| 4 | GUIDE | 472533912 | 9.15 | 581 | 0.237 | 0.118 | 0.189 | 0.304 | 331.791136 | 46.368695 | -17.95 | -2262.65 |
| 5 | GUIDE | 472655152 | 9.42 | 578 | 0.002 | -0.232 | 0.194 | 0.299 | 332.504239 | 45.862991 | -754.73 | 170.07 |
| 6 | GUIDE | 472665256 | 8.98 | 580 | 0.248 | 0.156 | 0.108 | 0.174 | 332.808125 | 46.195041 | -1978.25 | -540.58 |
| 7 | GUIDE | 472535576 | 7.86 | 580 | -0.191 | 0.207 | 0.082 | 0.134 | 331.438373 | 46.291802 | 879.17 | -2431.79 |

2.4 Star Slots

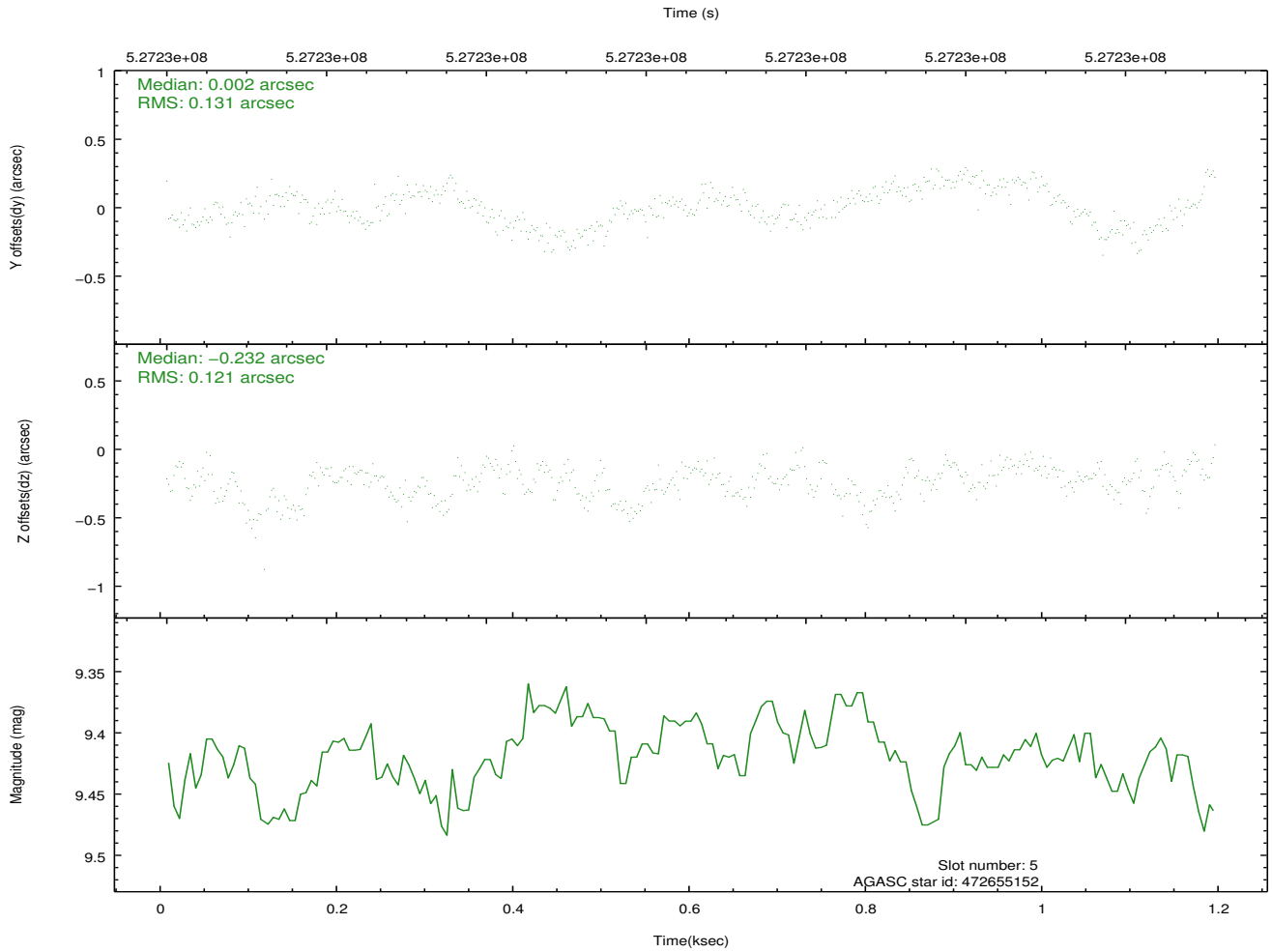
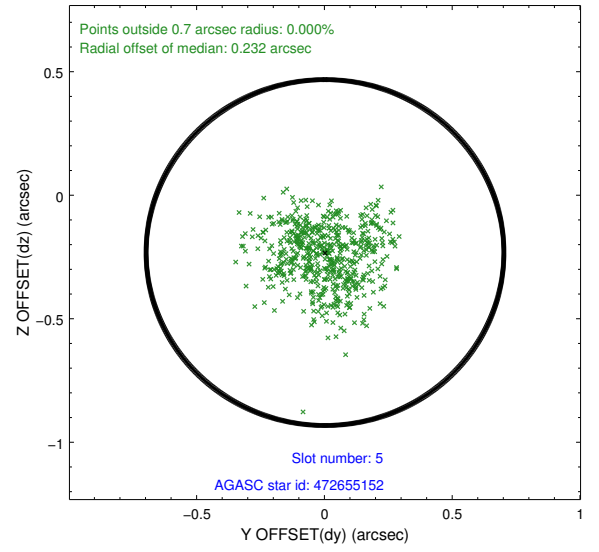
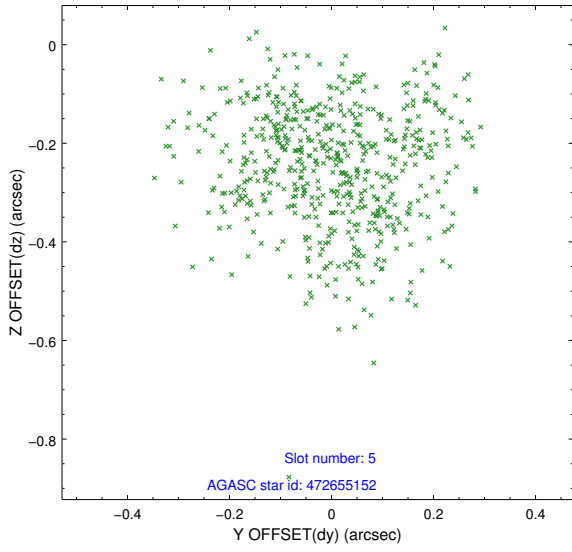
2.4.1 Slot 3



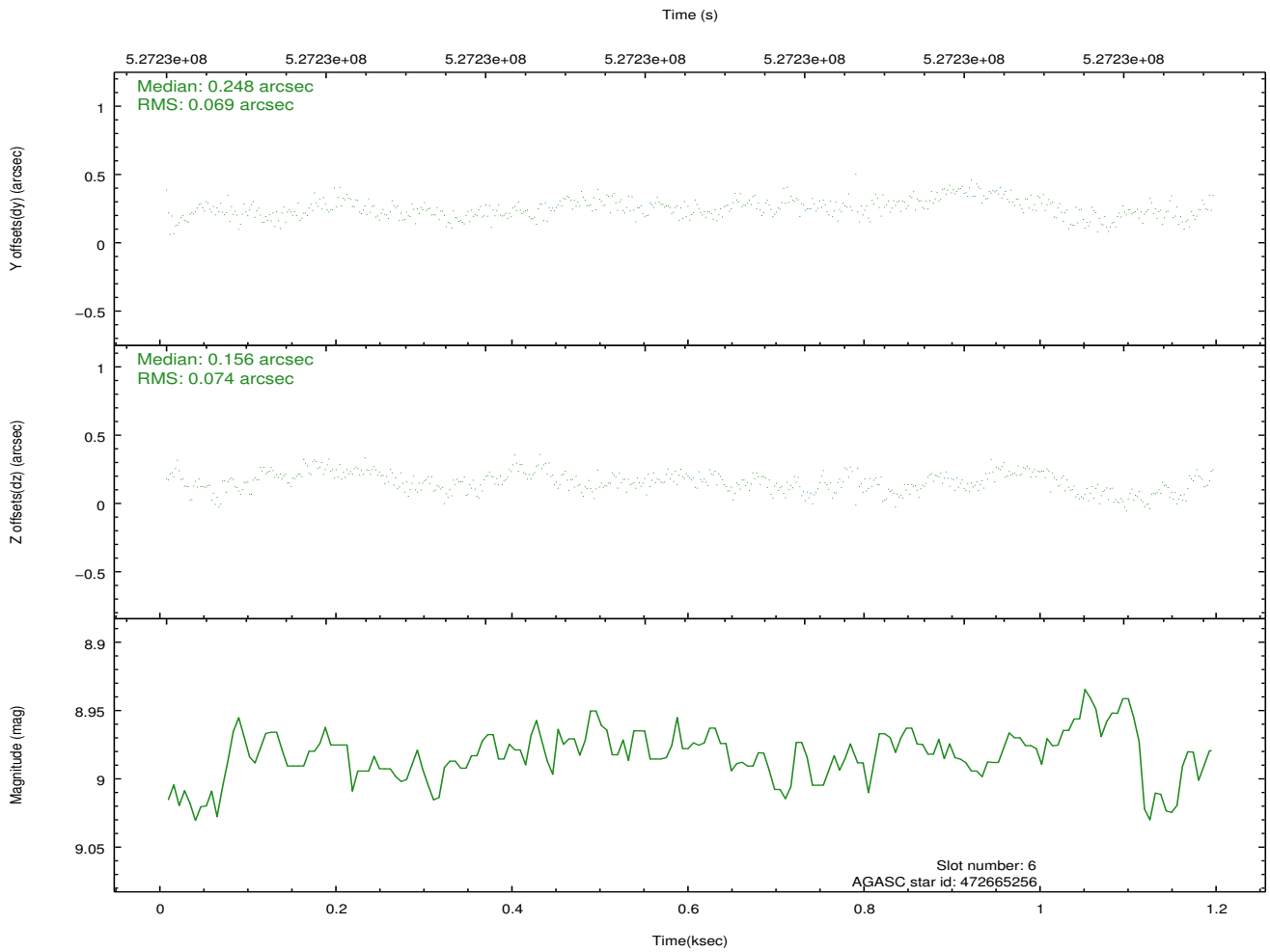
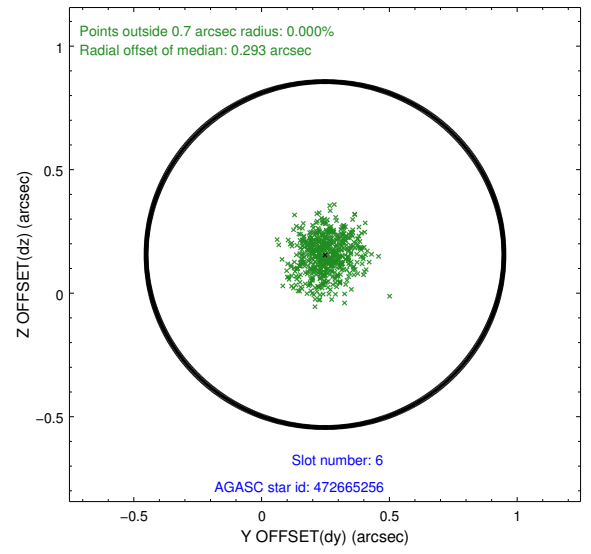
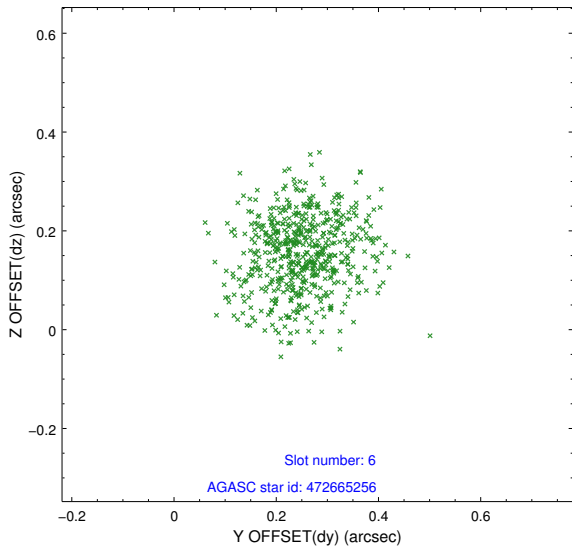
2.4.2 Slot 4



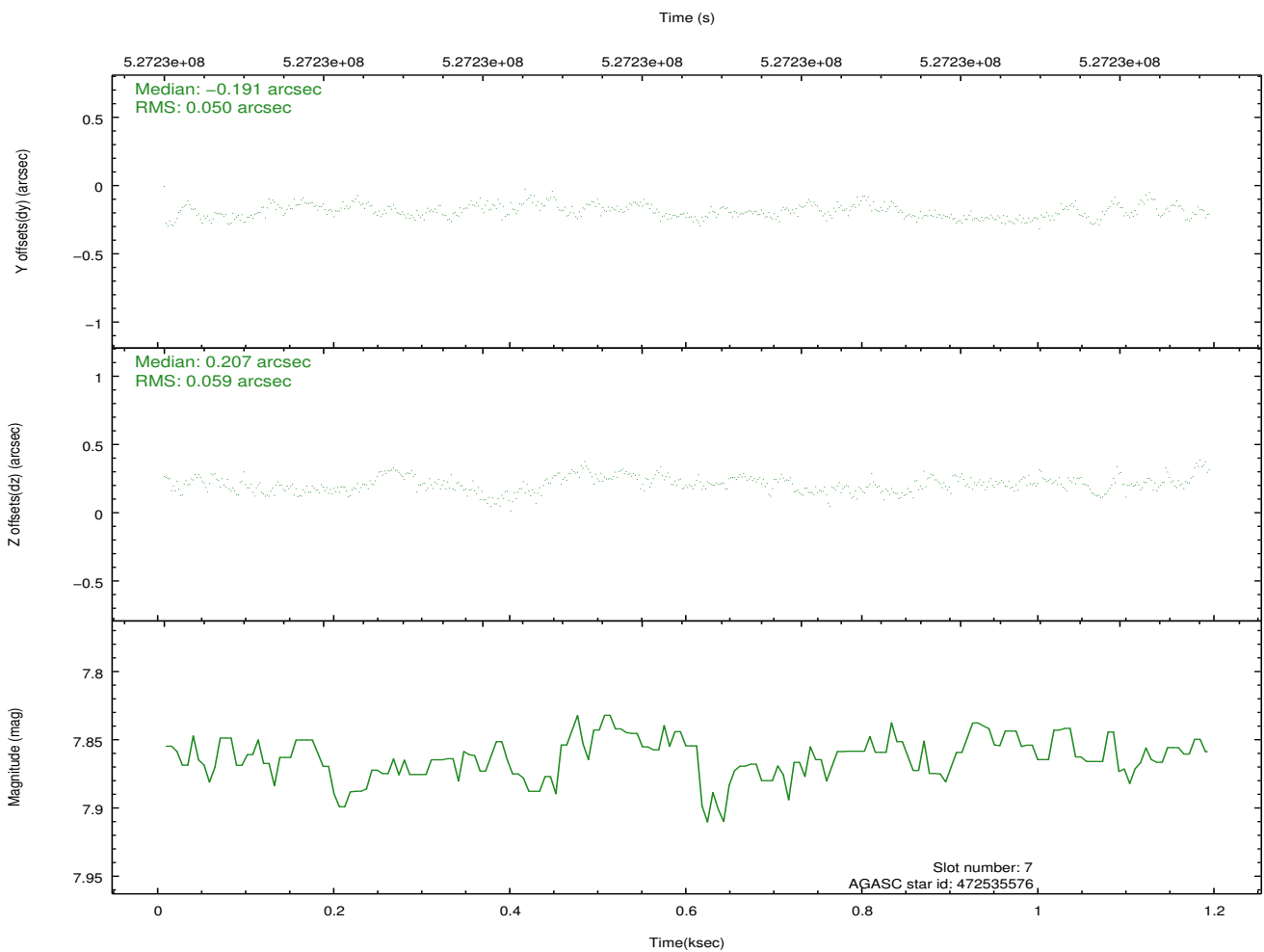
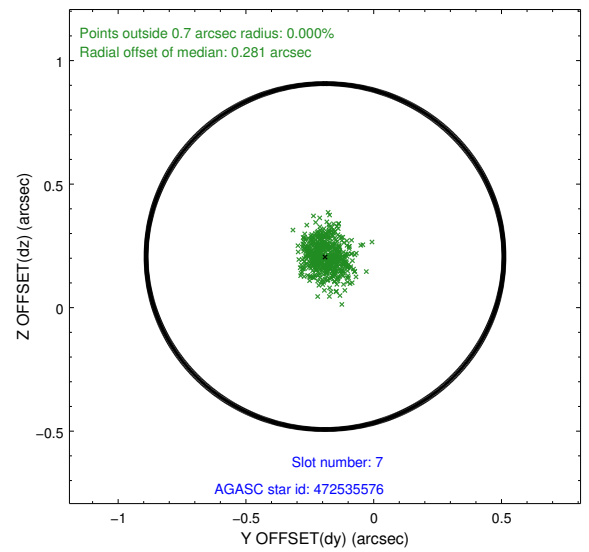
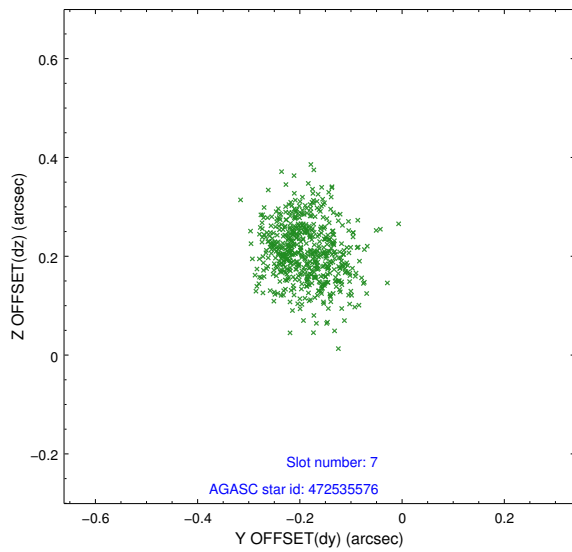
2.4.3 Slot 5



2.4.4 Slot 6

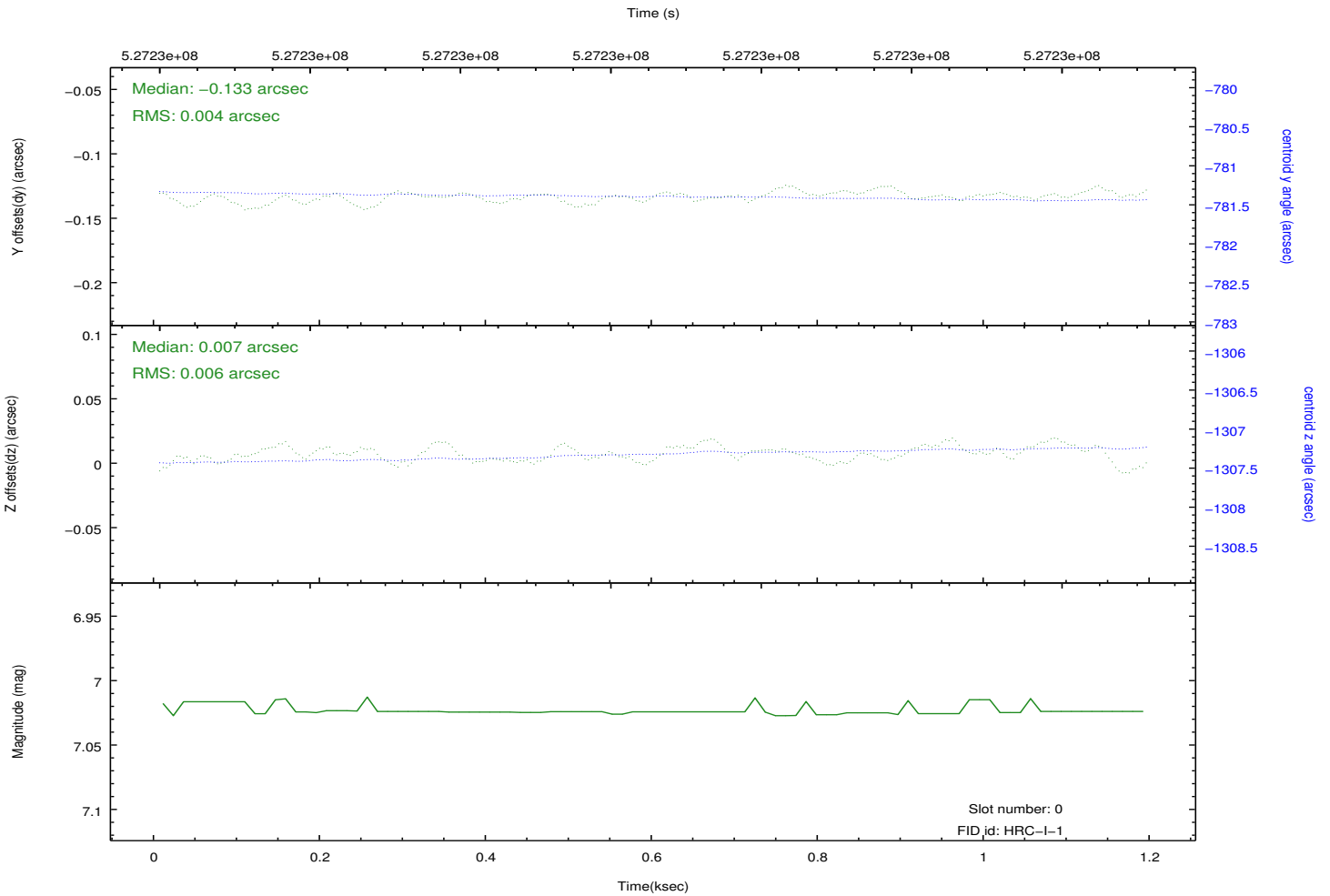
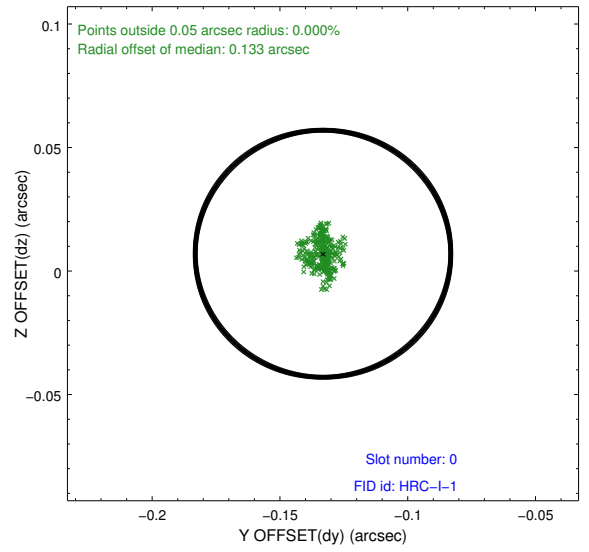
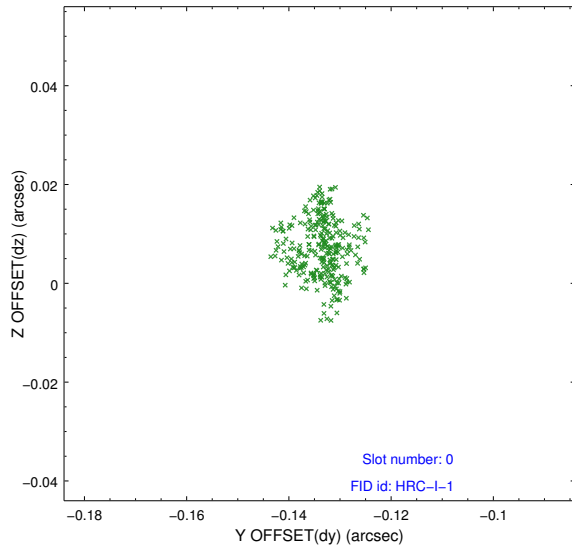


2.4.5 Slot 7

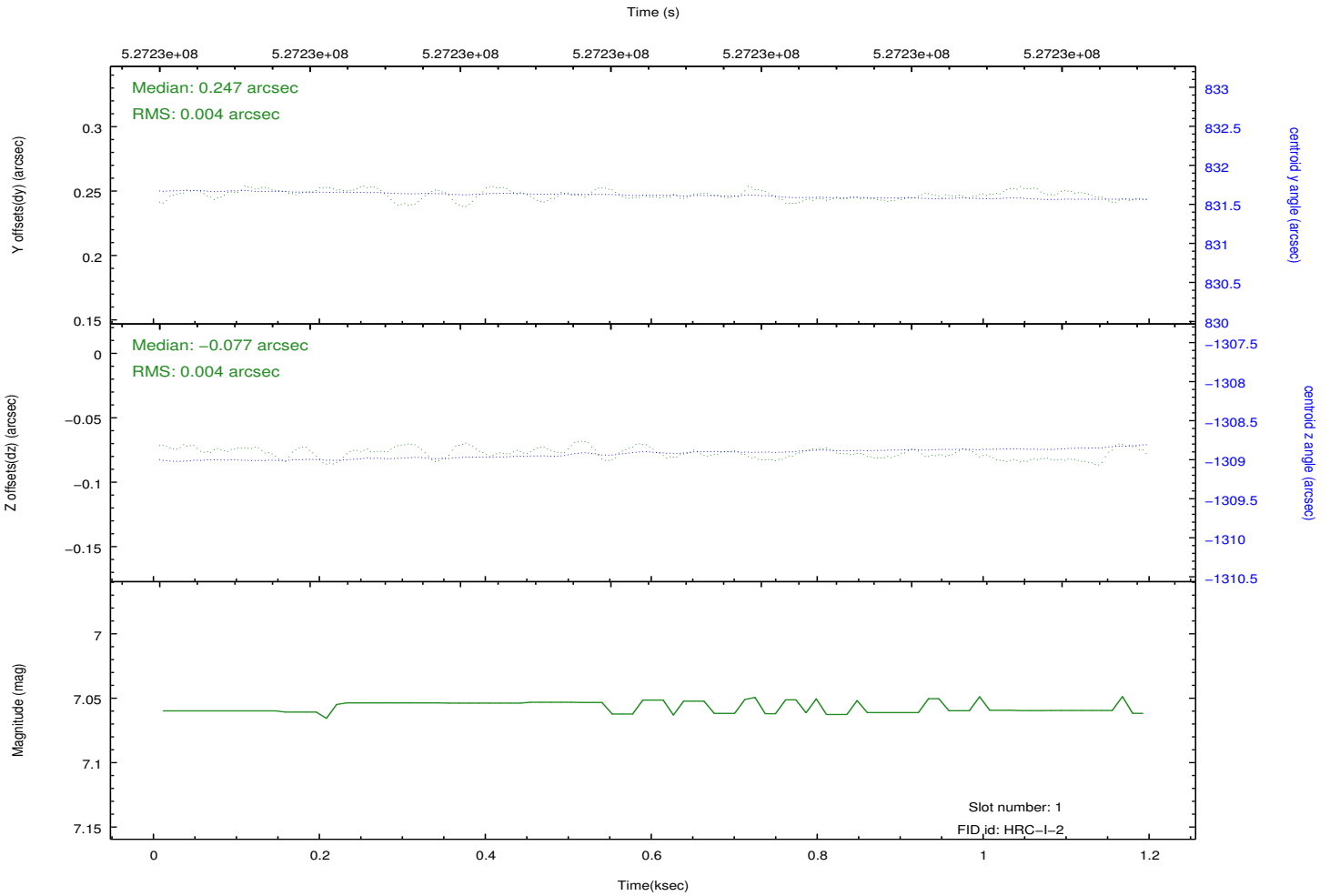
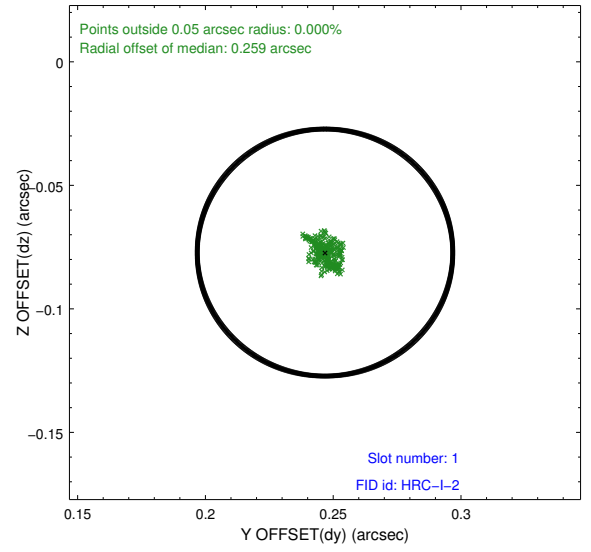
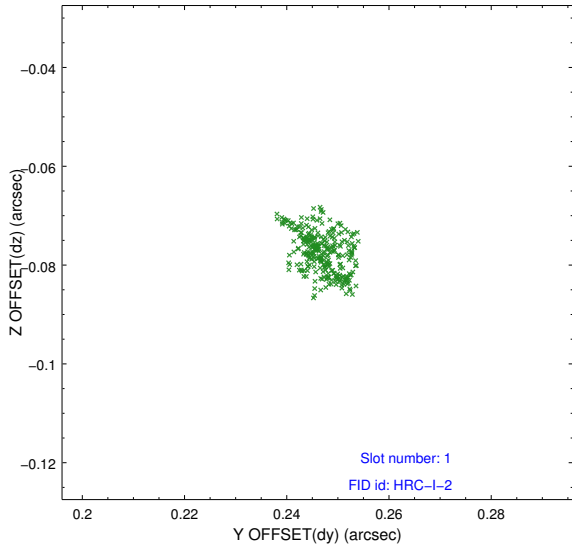


2.5 FID Slots

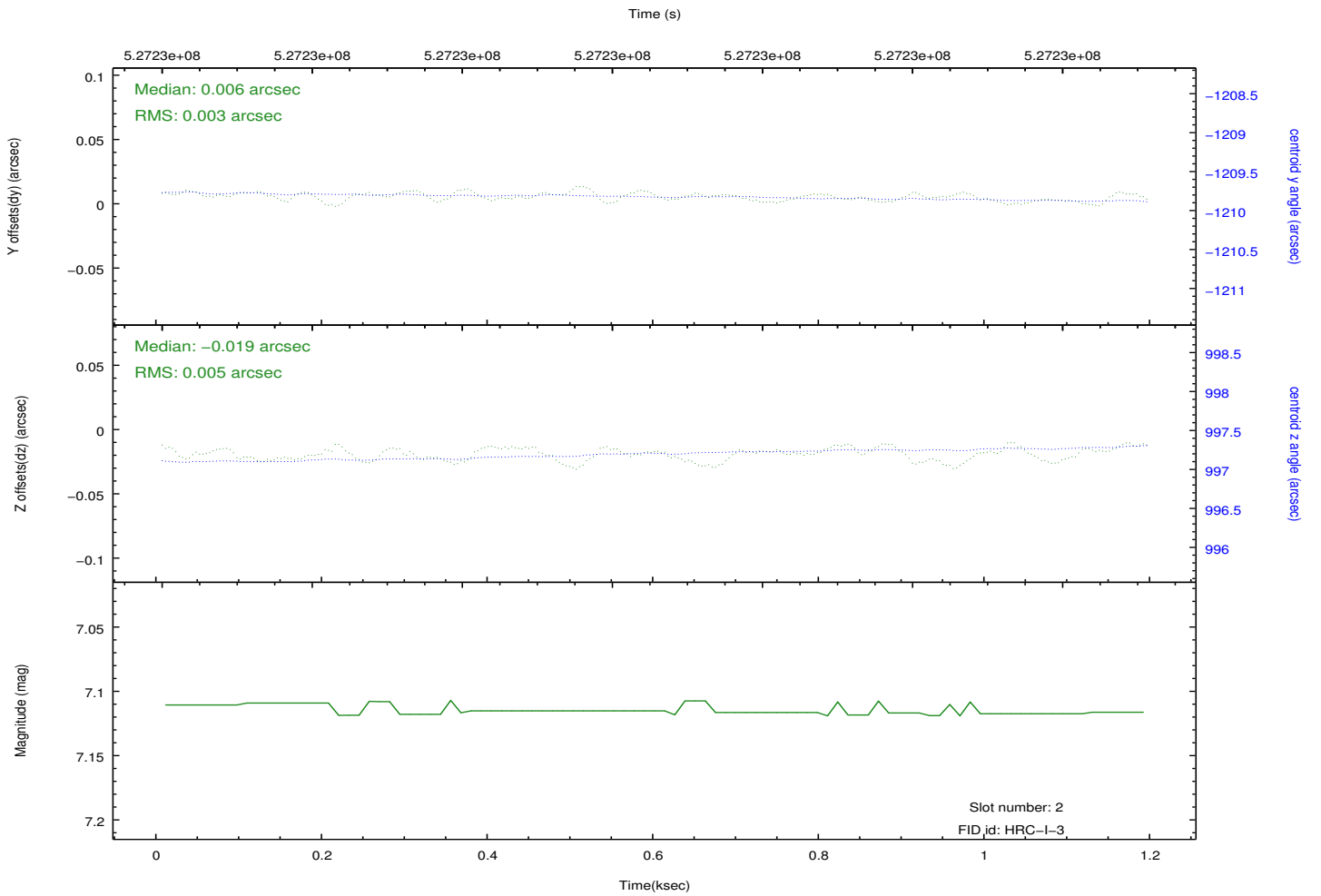
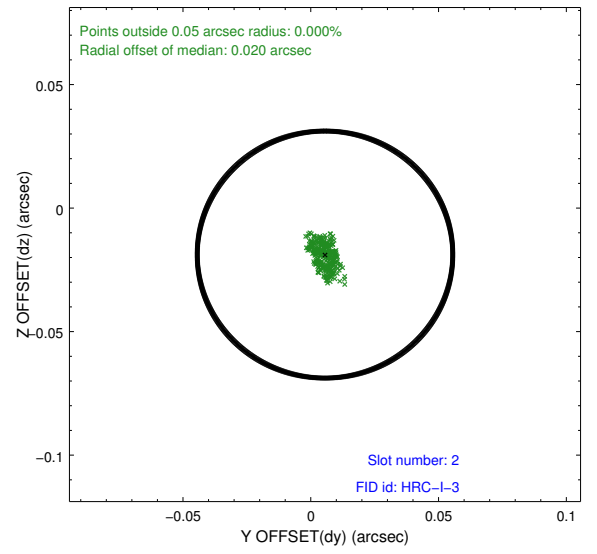
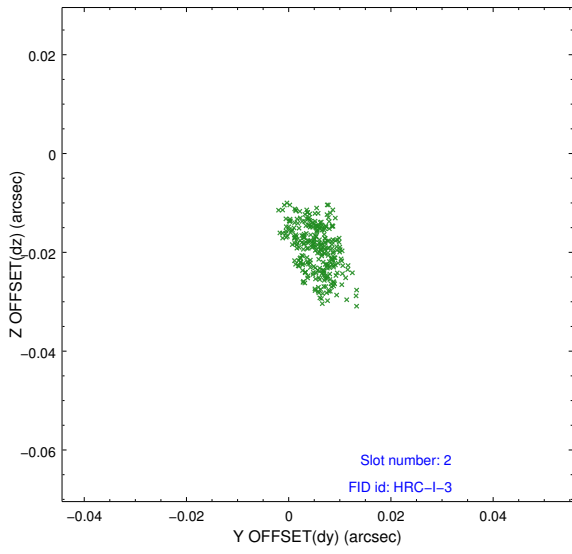
2.5.1 Slot 0



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) | 2014.09.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.18823131603 |

A.2 Comments