

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2656 - L2 Version 3
Chandra X-Ray Center

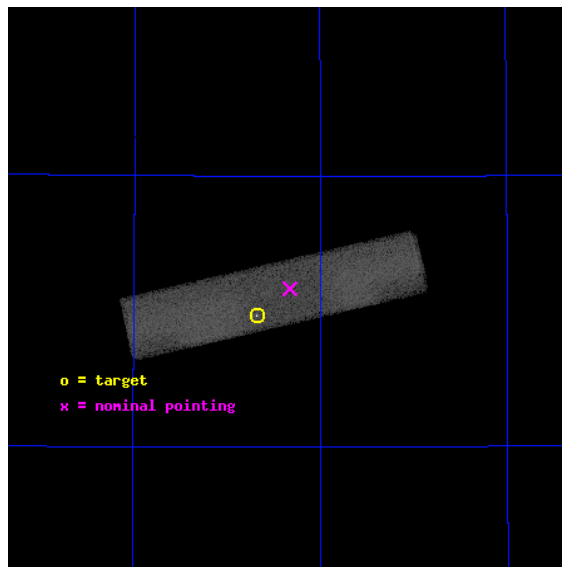
L2 Processing Date : Oct 13 2012

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1 Front

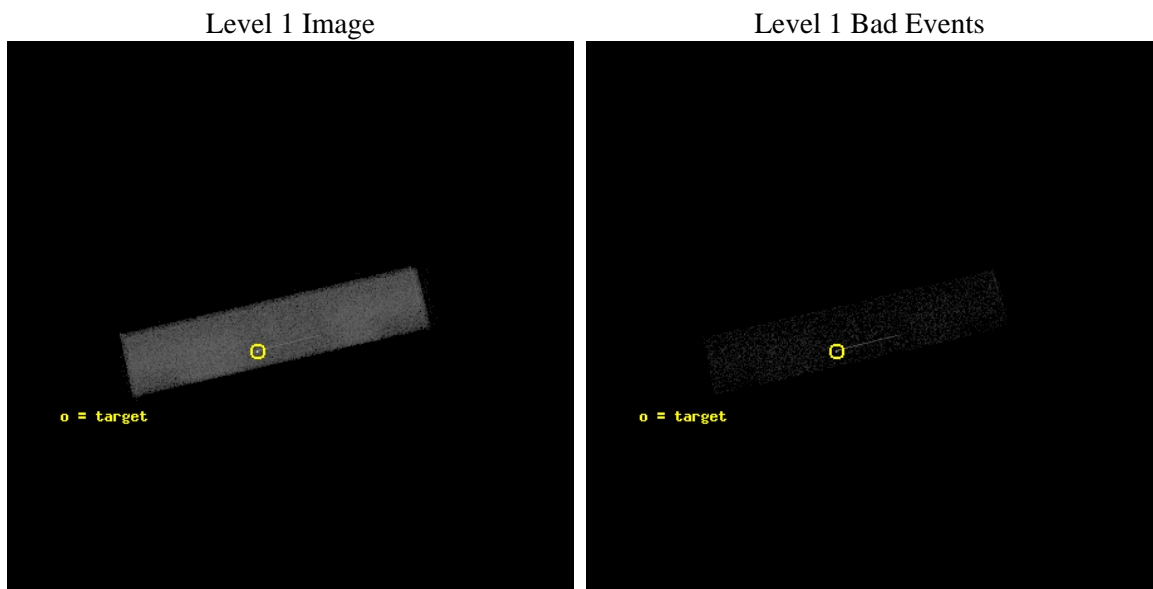
| | | |
|----------|---|--|
| seq_num | 290212 | Sequence number |
| obs_id | 2656 | Observation id |
| title | AO3B HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC | Proposal ti |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ARLAC | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.08142656664 | Nominal RA [deg] |
| dec_nom | 45.791955116387 | Nominal Dec [deg] |
| roll_nom | 166.96802697564 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 810.00628337264 | [s] |
| livetime | 800.28547449447 | Ontime multiplied by DTCOR |
| l2events | 76149 | 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 | 900.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 810.00628337264 | [s] |
| caldbver | 4.5.2 | | l1events | 99191 | Number of level 1 events |
| date | 2012-10-14T00:25:24 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

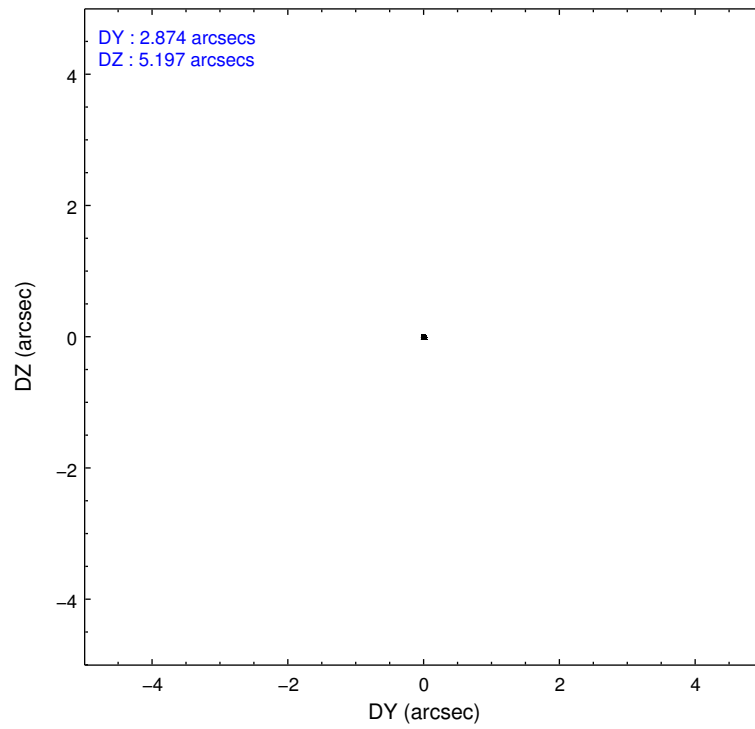
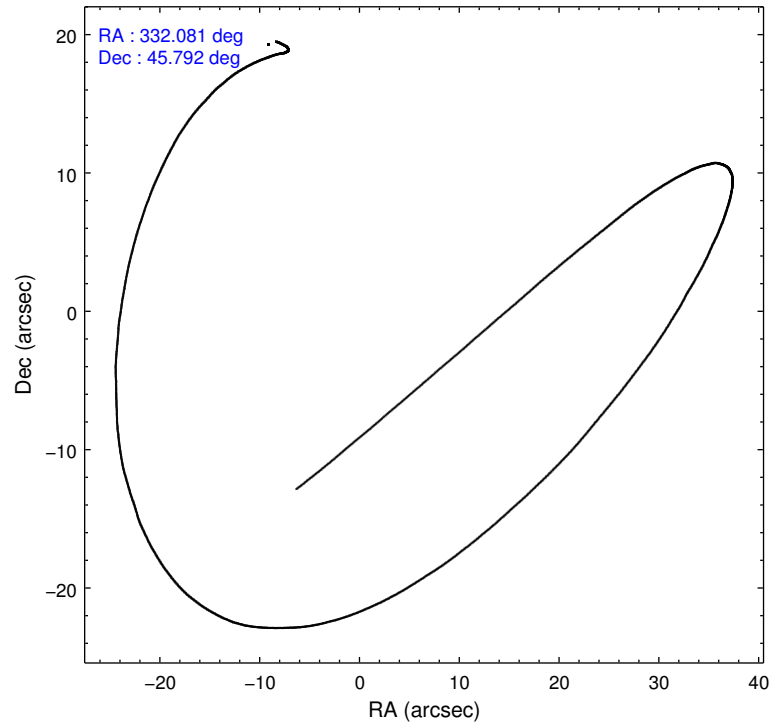
Level 1 Events

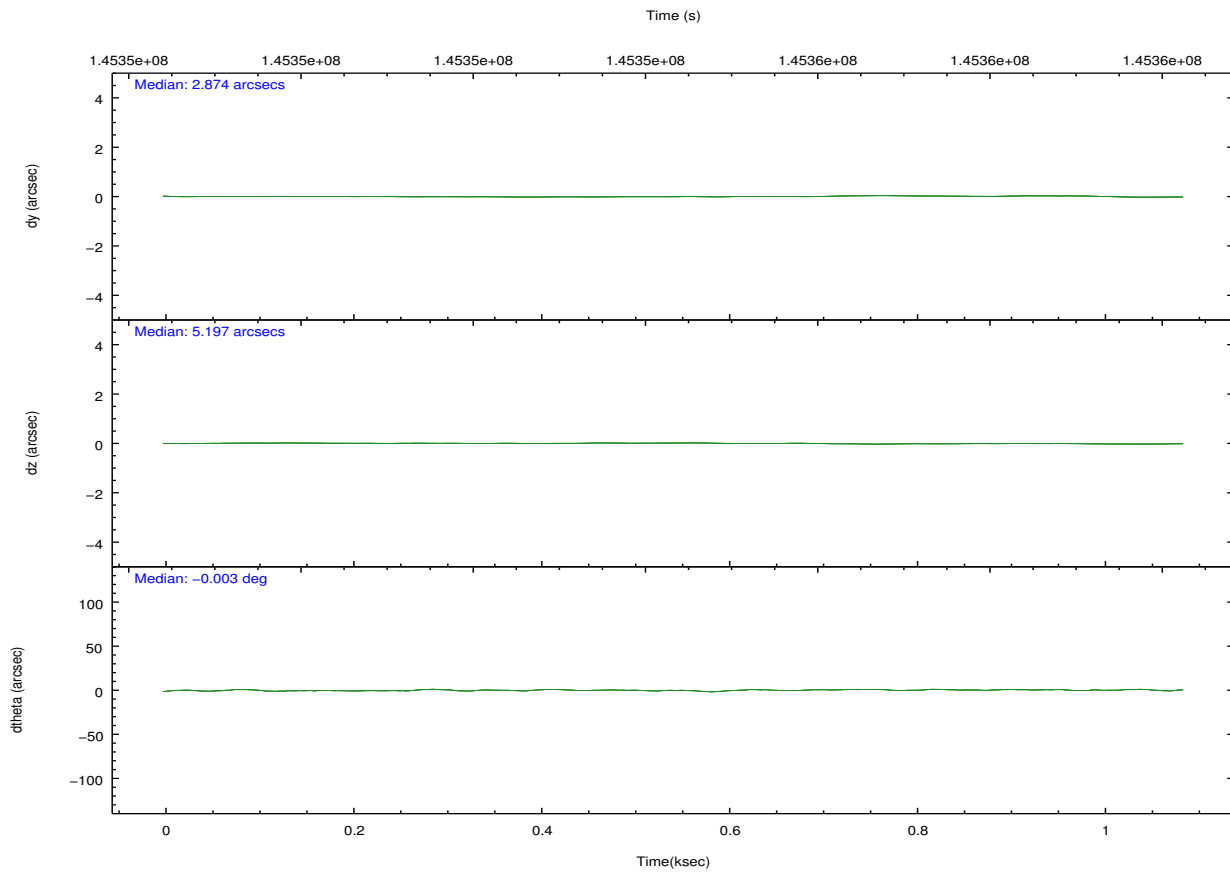
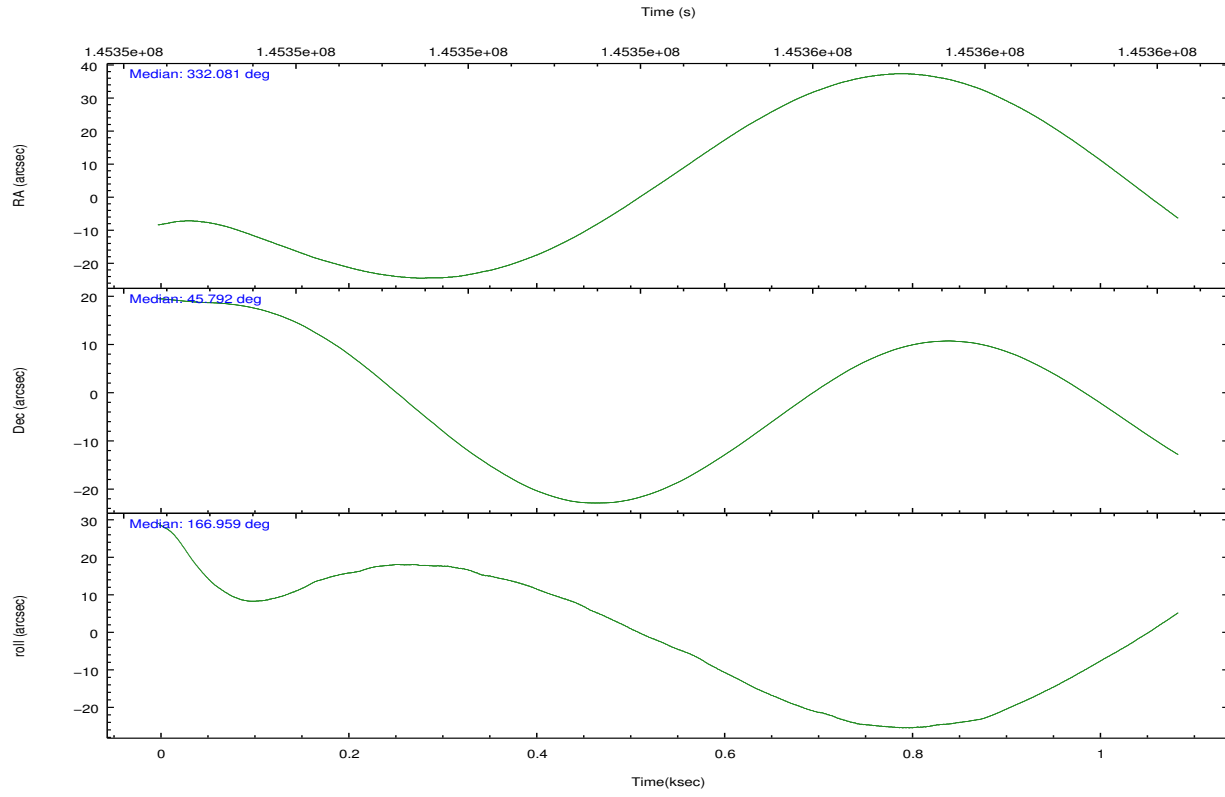
| | segment 1 | segment 2 | segment 3 |
|-----------------|--------------|--------------|--------------|
| level 1 events | 0 | 99191 | 0 |
| rejected events | 0 | 15872 | 0 |
| rejected % | 0% | 16% | 0% |

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 | 332.119890 | 332.0814265666433 | | | |
| [deg] Pointing Dec | 45.800792 | 45.79195511638662 | | | |
| [deg] Pointing Roll | 166.872866 | 166.9680269756393 | | | |
| [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) | 145354470.184000 | 145353496.38967 | | | |
| Observation start date | 2002-08-10T08:13:26 | 2002-08-10T07:58:16 | | | |
| [s] Observation end time (MET) | 145355370.184000 | 145355504.36475 | | | |
| Observation end date | 2002-08-10T08:28:26 | 2002-08-10T08:31:44 | | | |

2.3 Aspect



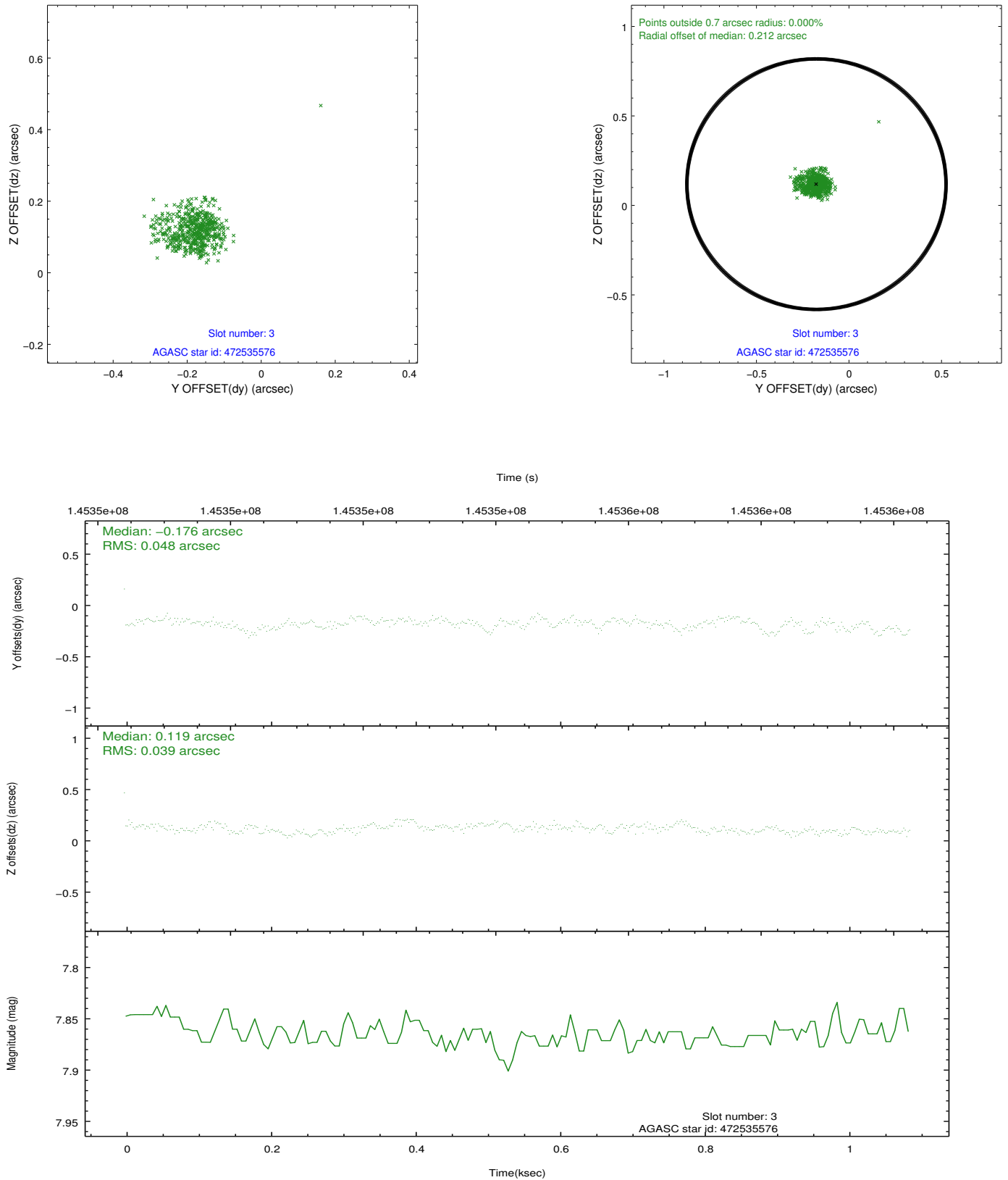


Slot Statistics

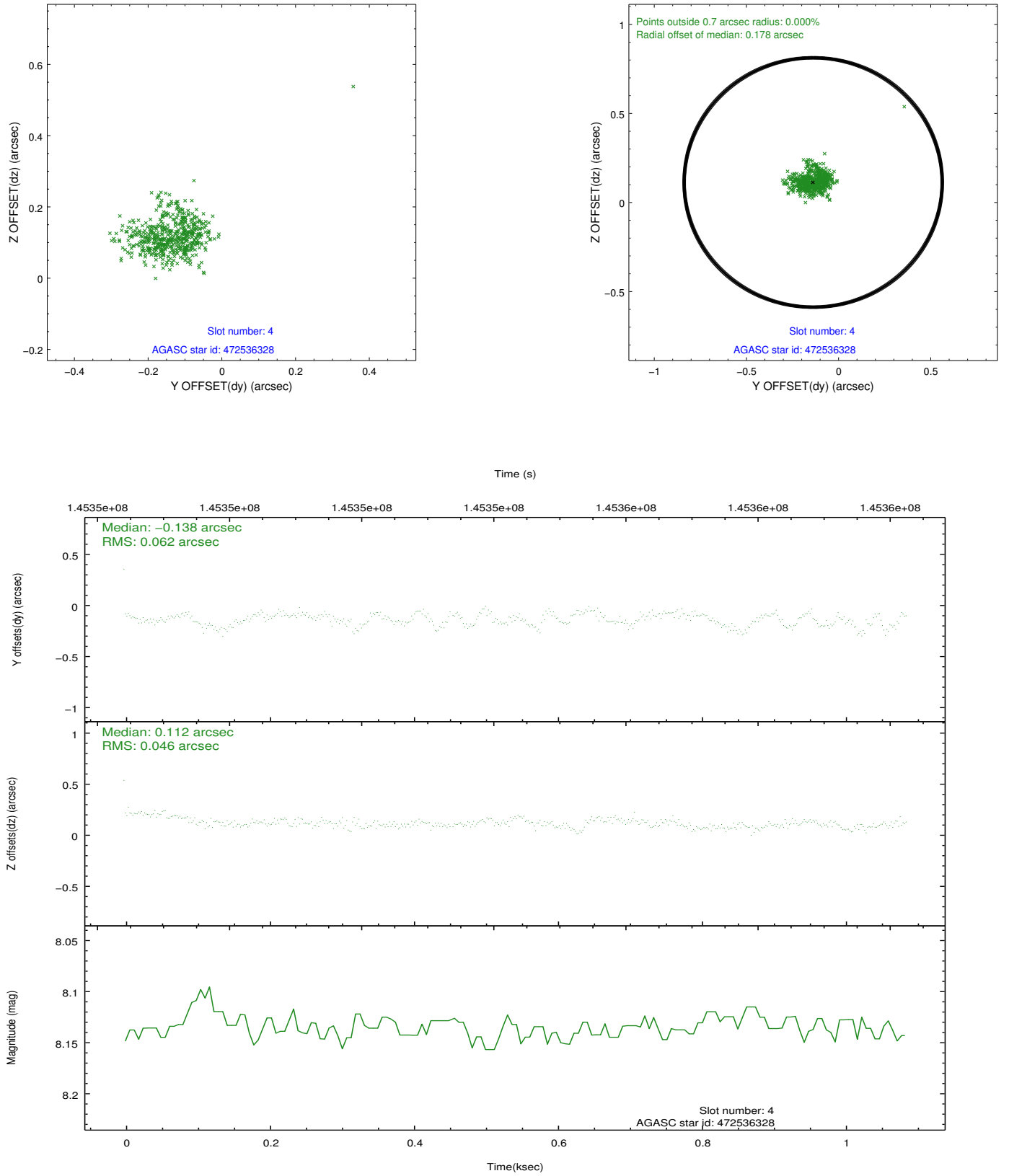
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 6.99 | 264 | 0.159 | -0.164 | 0.008 | 0.014 | 0.000000 | 0.000000 | -1156.90 | -453.72 |
| 1 | FID | HRC-S-2 | 6.98 | 265 | 0.095 | -0.098 | 0.006 | 0.010 | 0.000000 | 0.000000 | 1238.35 | -448.03 |
| 2 | FID | HRC-S-3 | 7.01 | 265 | 0.136 | -0.040 | 0.008 | 0.011 | 0.000000 | 0.000000 | -1154.96 | 574.24 |
| 3 | GUIDE | 472535576 | 7.86 | 531 | -0.176 | 0.119 | 0.062 | 0.102 | 331.438373 | 46.291802 | 2055.40 | -1339.93 |
| 4 | GUIDE | 472536328 | 8.14 | 530 | -0.138 | 0.112 | 0.076 | 0.123 | 331.496671 | 46.454831 | 2046.76 | -1946.82 |
| 5 | GUIDE | 472523760 | 8.23 | 531 | -0.055 | -0.116 | 0.066 | 0.108 | 331.645363 | 45.403260 | 848.70 | 1662.20 |
| 6 | GUIDE | 472665256 | 9.01 | 531 | 0.210 | 0.104 | 0.079 | 0.149 | 332.808125 | 46.195041 | -1342.91 | -1772.75 |
| 7 | GUIDE | 472655704 | 9.49 | 530 | 0.166 | -0.231 | 0.101 | 0.176 | 332.167195 | 45.285228 | -539.59 | 1779.82 |

2.4 Star Slots

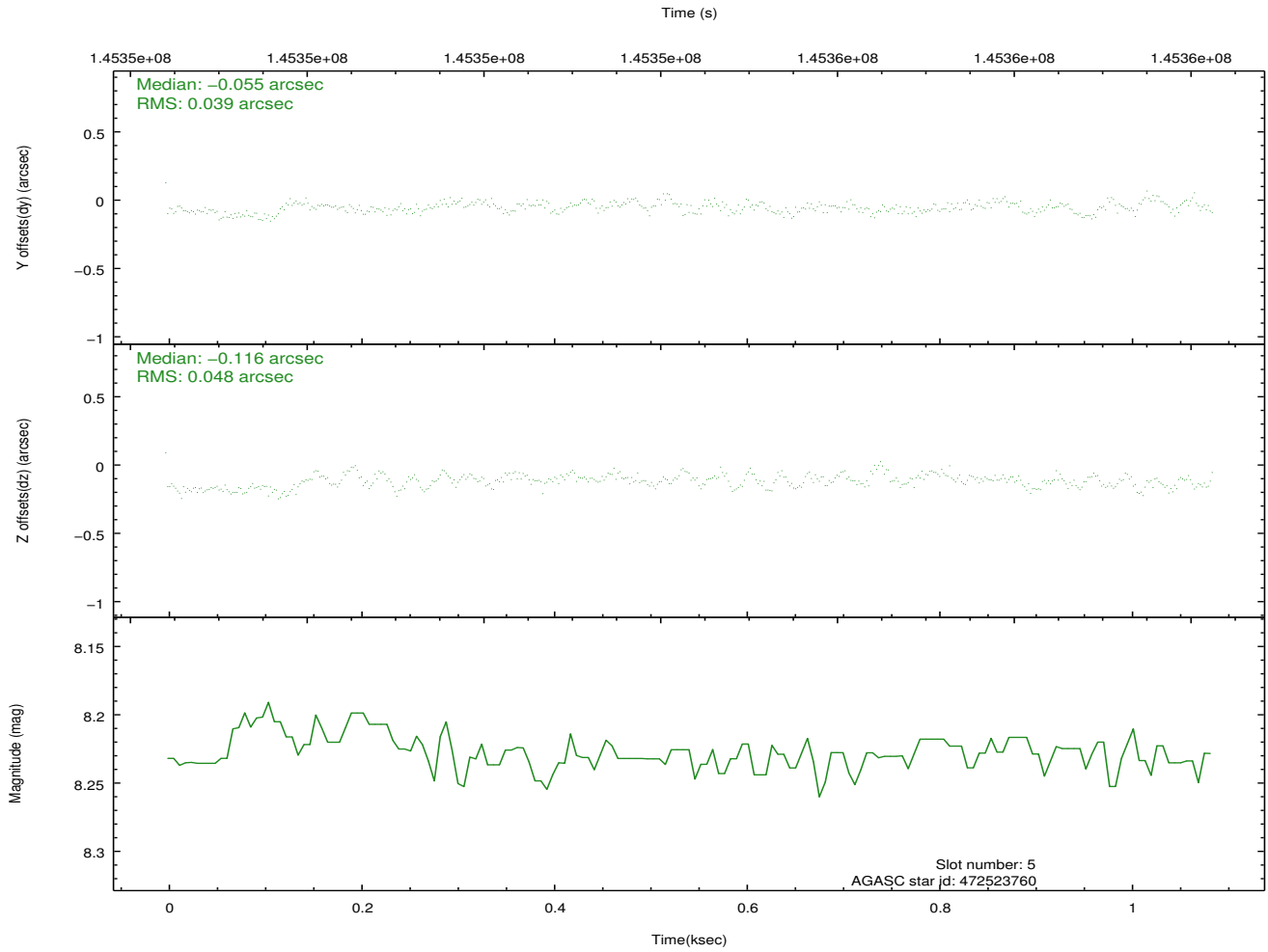
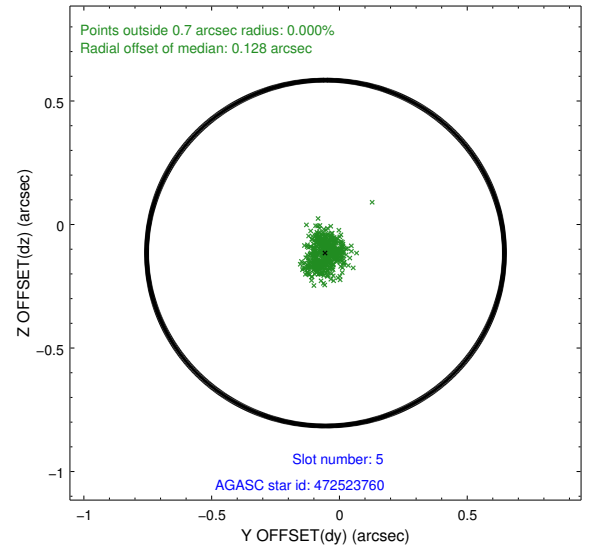
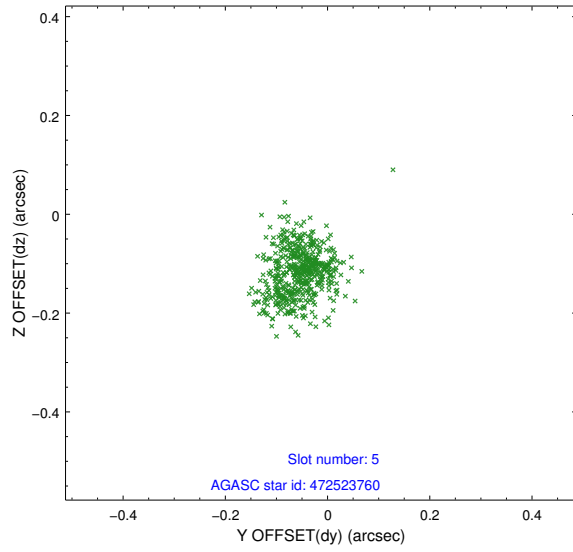
2.4.1 Slot 3



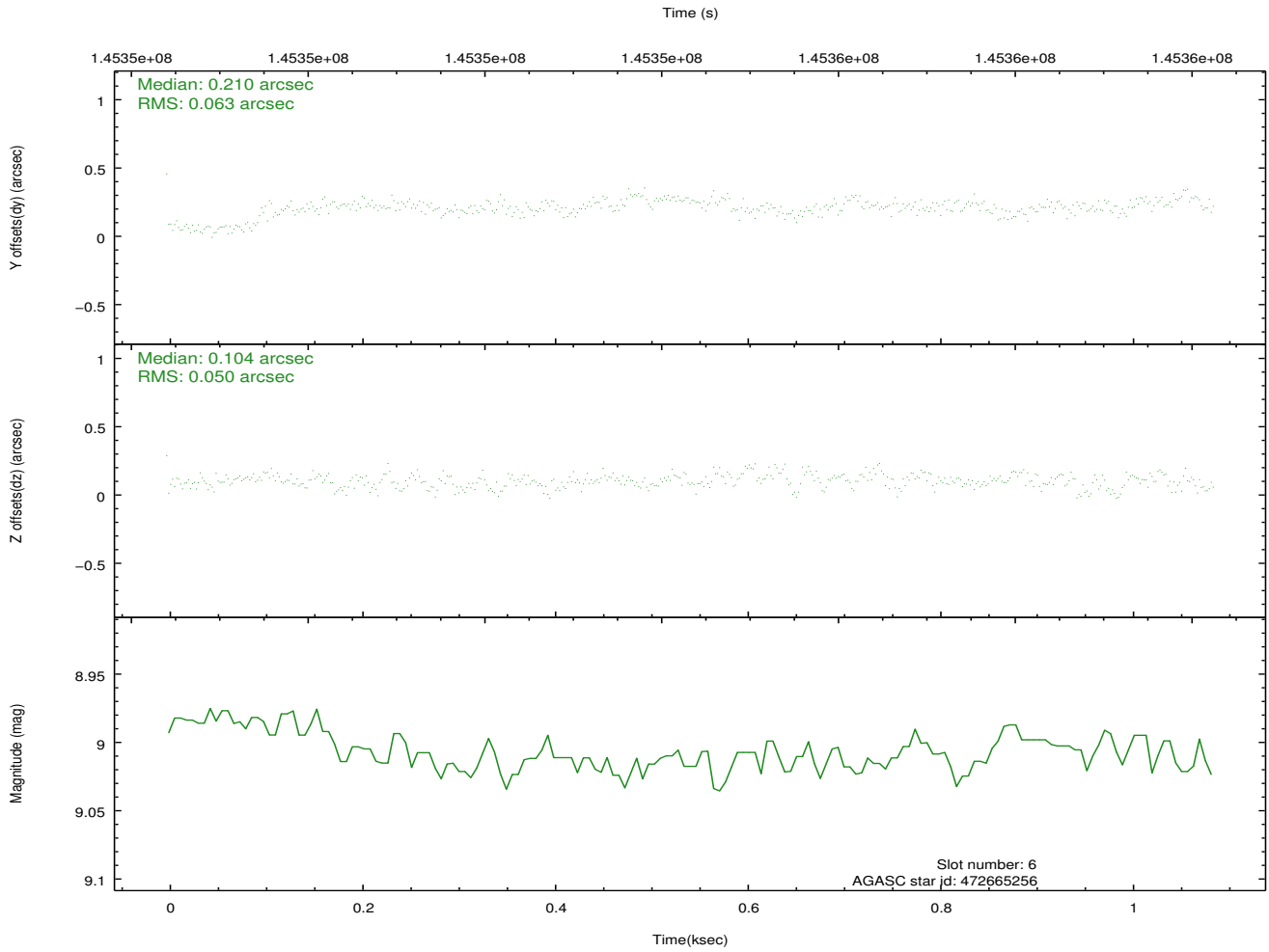
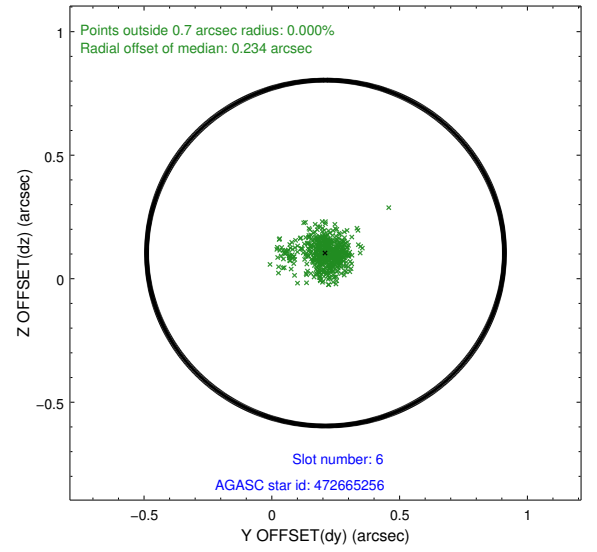
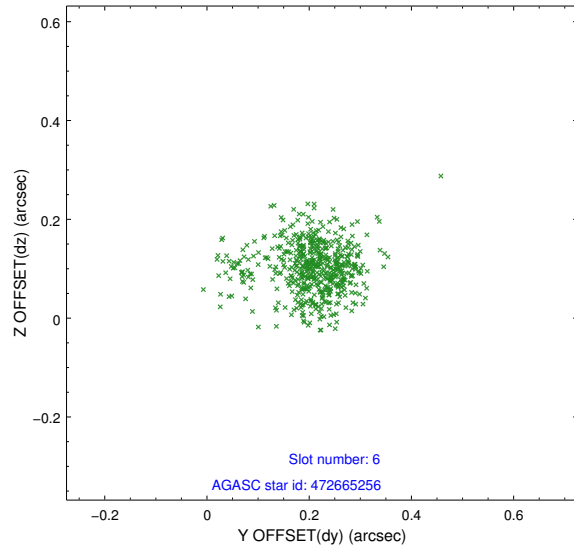
2.4.2 Slot 4



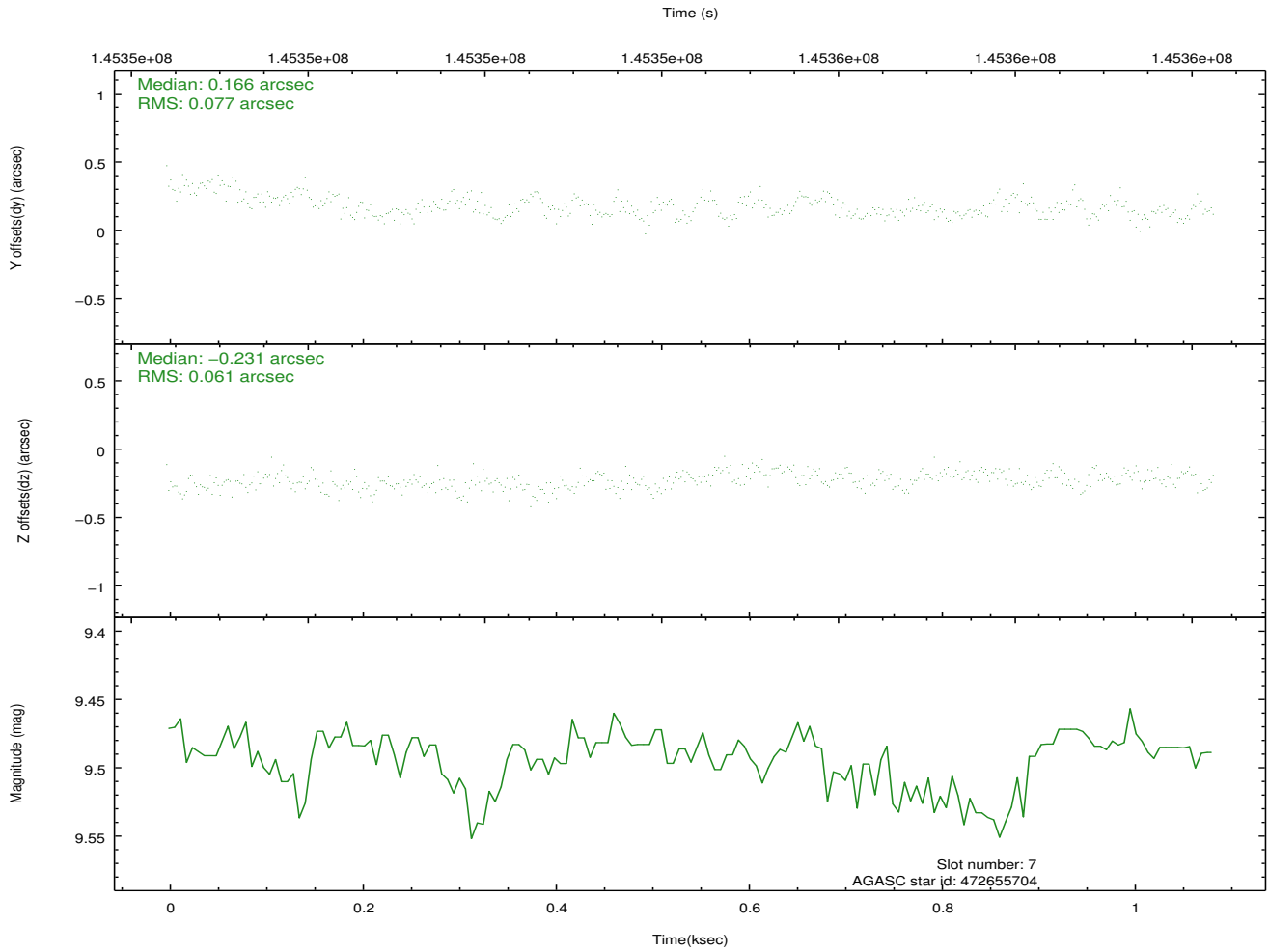
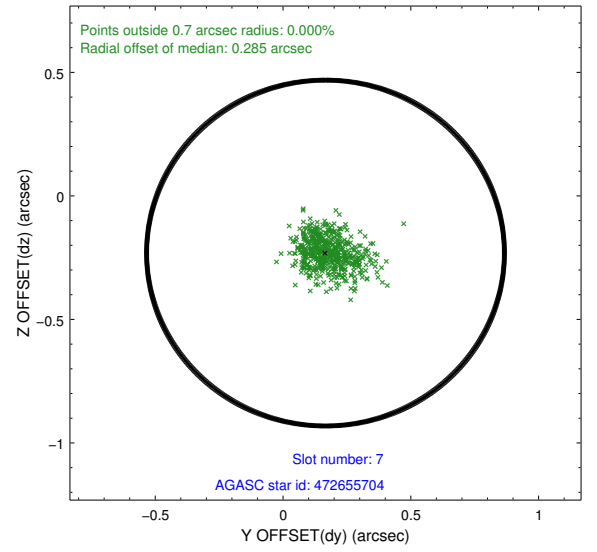
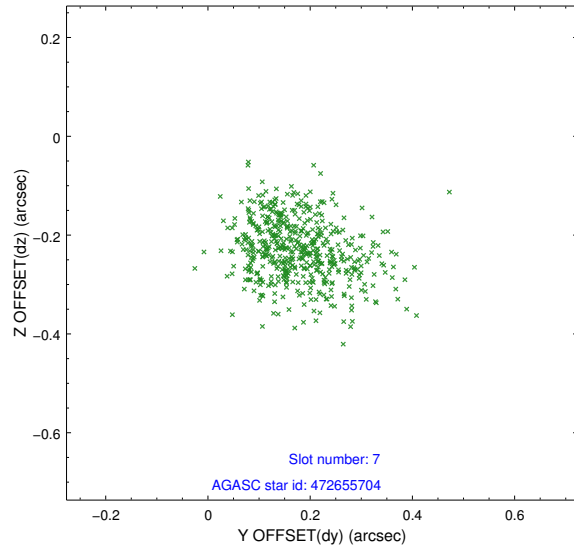
2.4.3 Slot 5



2.4.4 Slot 6

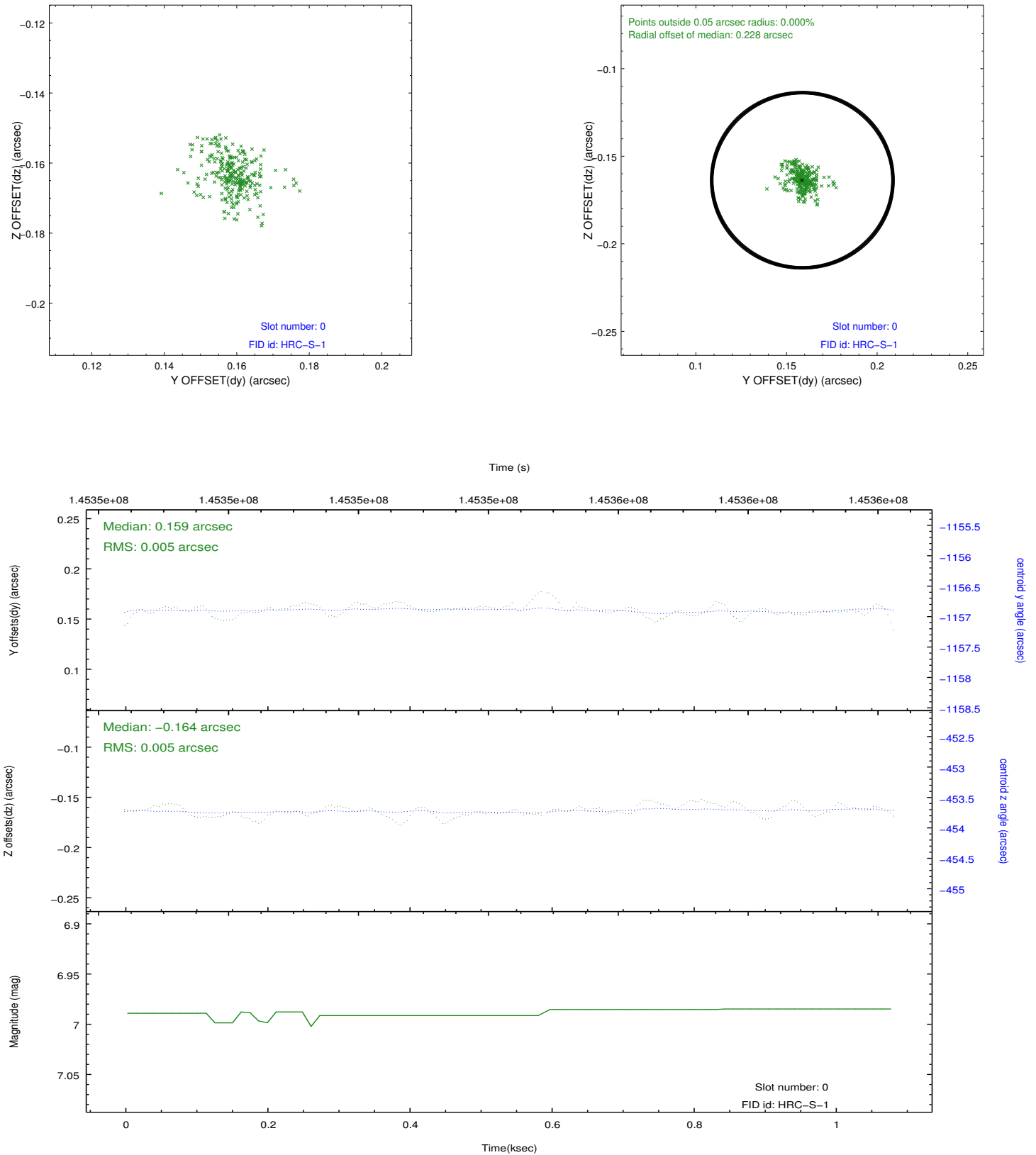


2.4.5 Slot 7

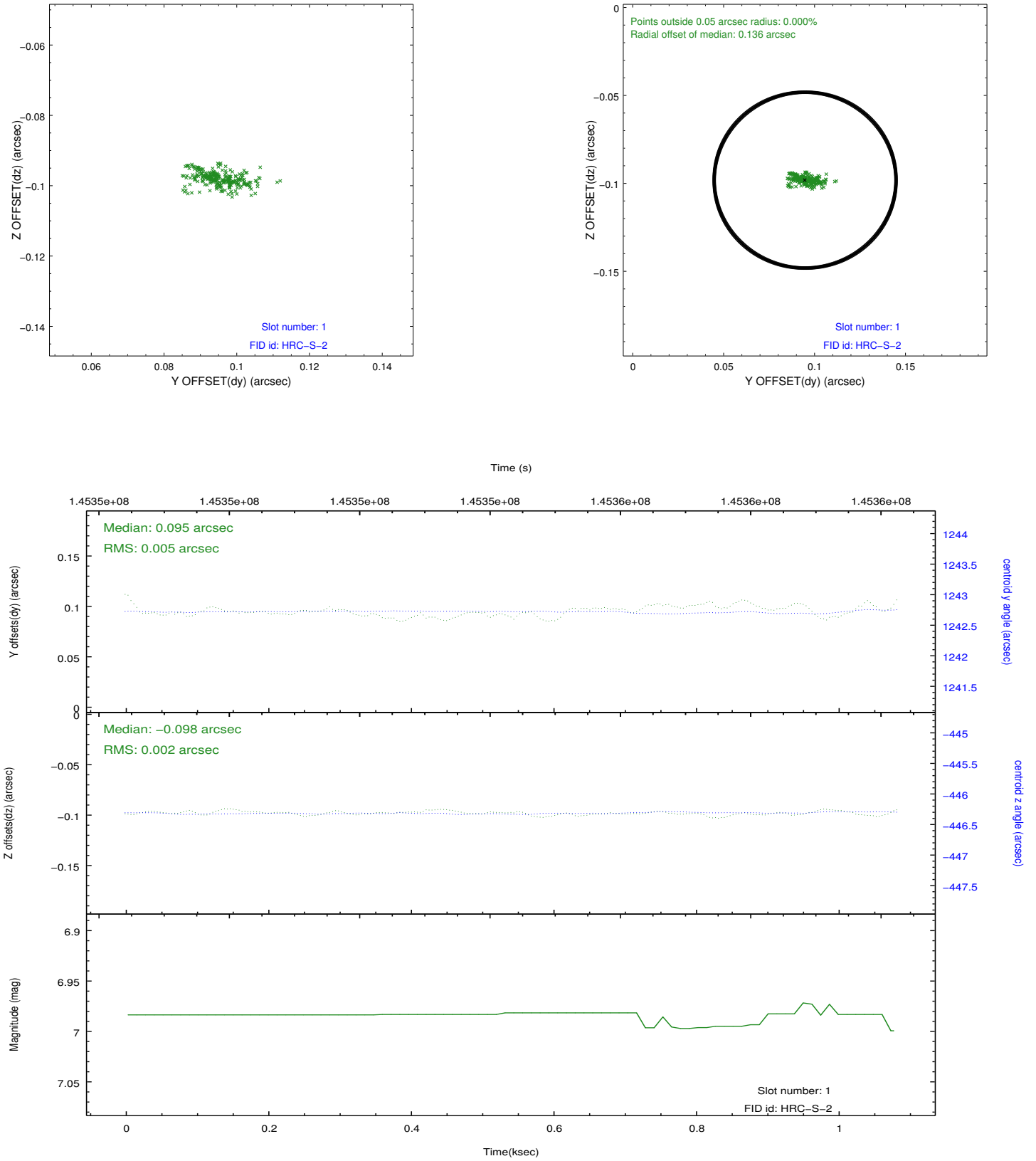


2.5 FID Slots

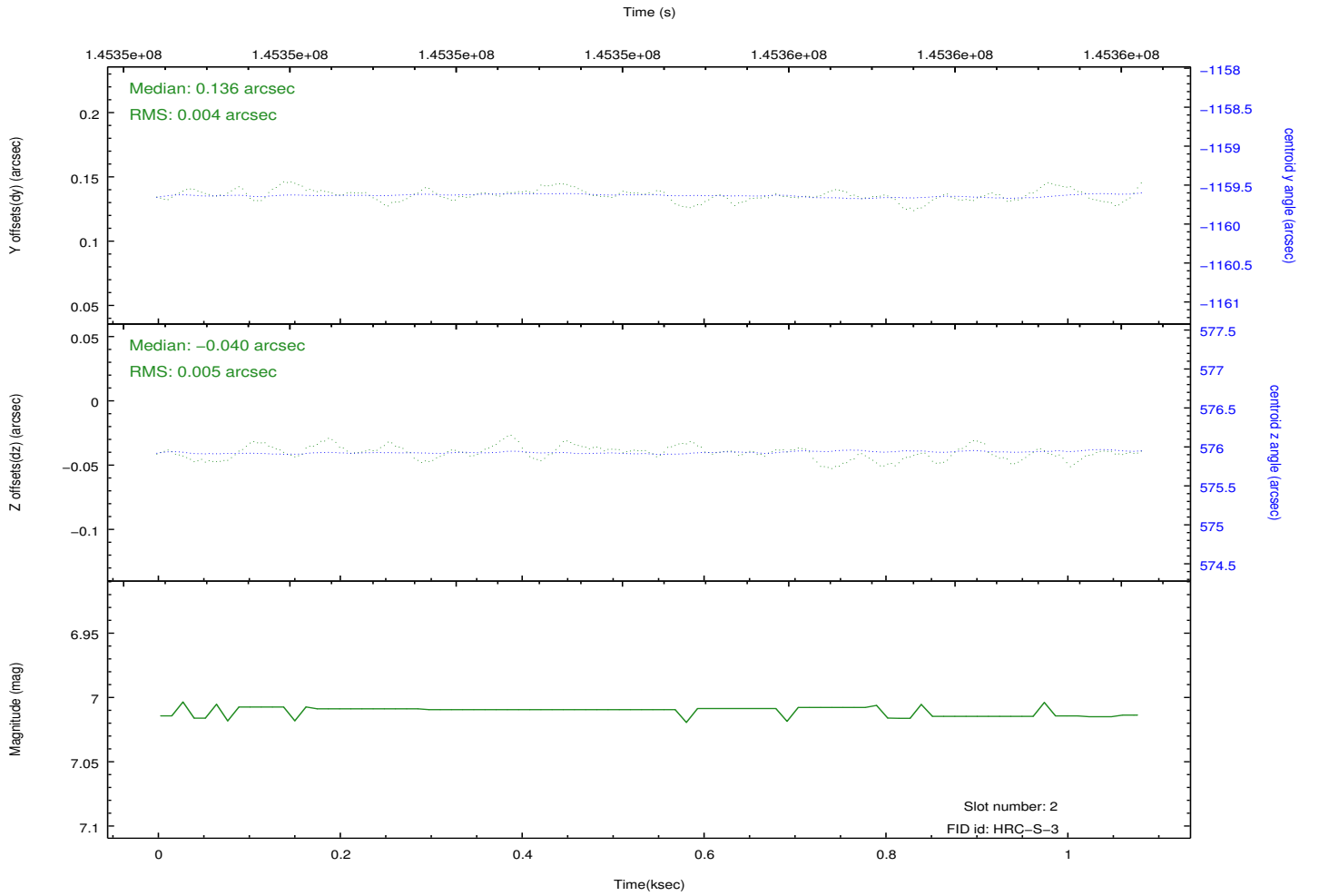
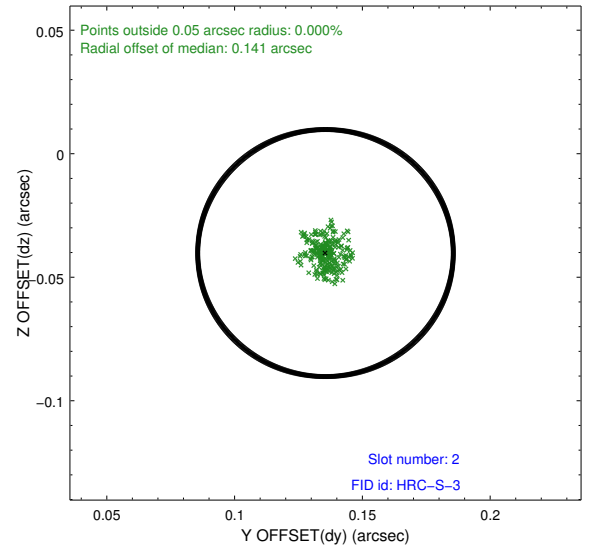
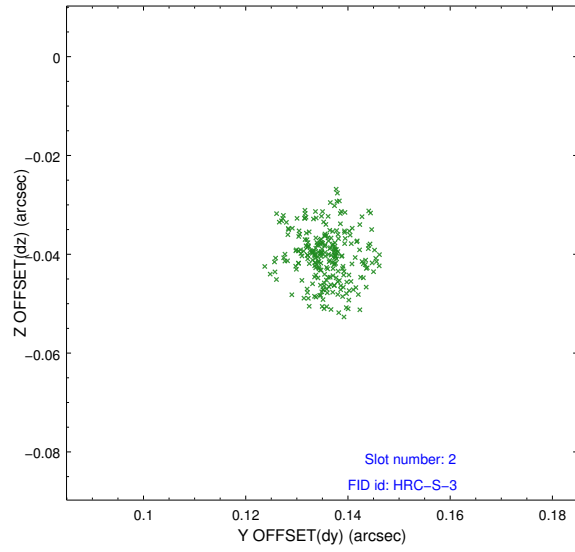
2.5.1 Slot 0



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) | 2012.10.23 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 0.81 |

A.2 Comments