

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4311 - L2 Version 3
Chandra X-Ray Center

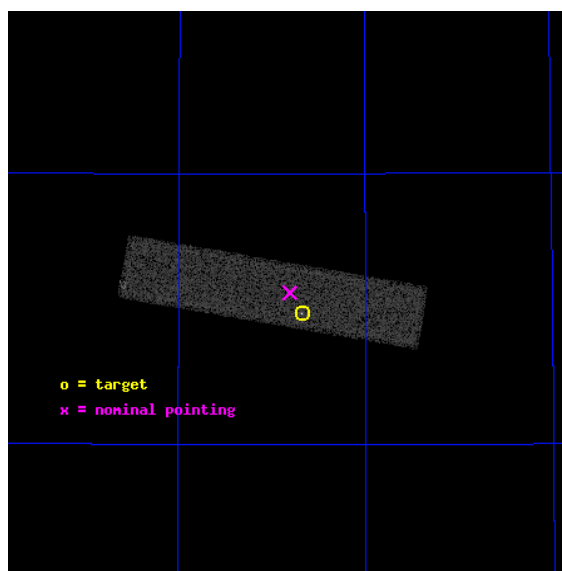
L2 Processing Date : Nov 2 2012

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1 Front

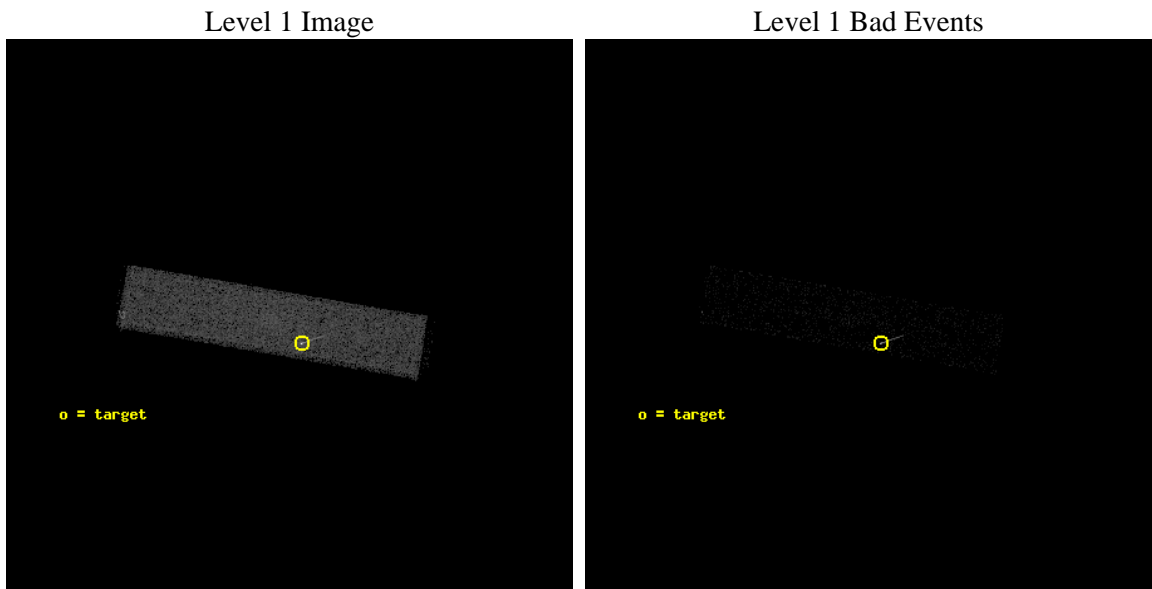
| | | |
|----------|---|---------------------------------------|
| seq_num | 290271 | Sequence number |
| obs_id | 4311 | Observation id |
| title | AO4B CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.20227937878 | Nominal RA [deg] |
| dec_nom | 45.780543770268 | Nominal Dec [deg] |
| roll_nom | 189.63972843905 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 820.25628513098 | [s] |
| livetime | 816.20878768601 | Ontime multiplied by DTCOR |
| l2events | 27605 | 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 | 820.25628513098 | [s] |
| caldsver | 4.5.2 | | l1events | 41573 | Number of level 1 events |
| date | 2012-11-02T16:20:54 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

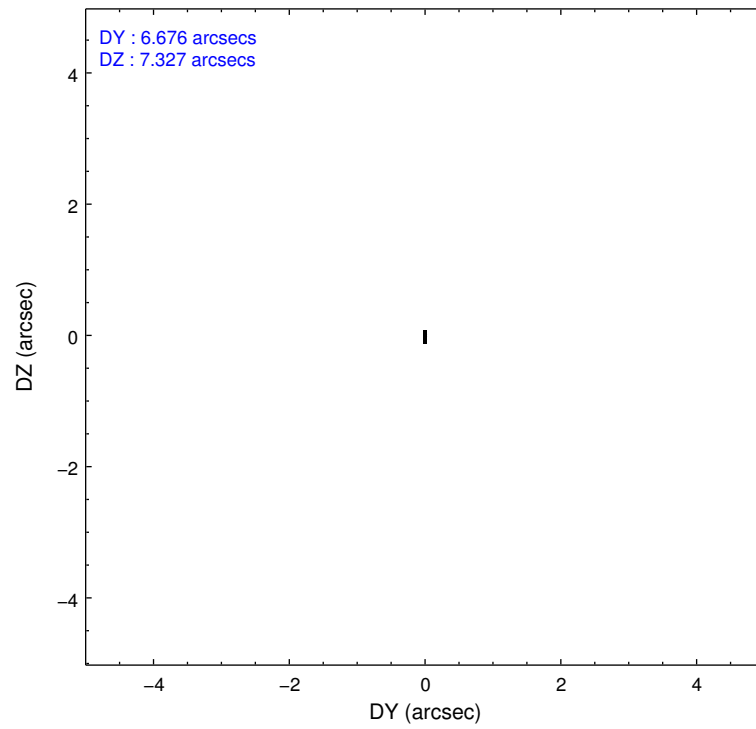
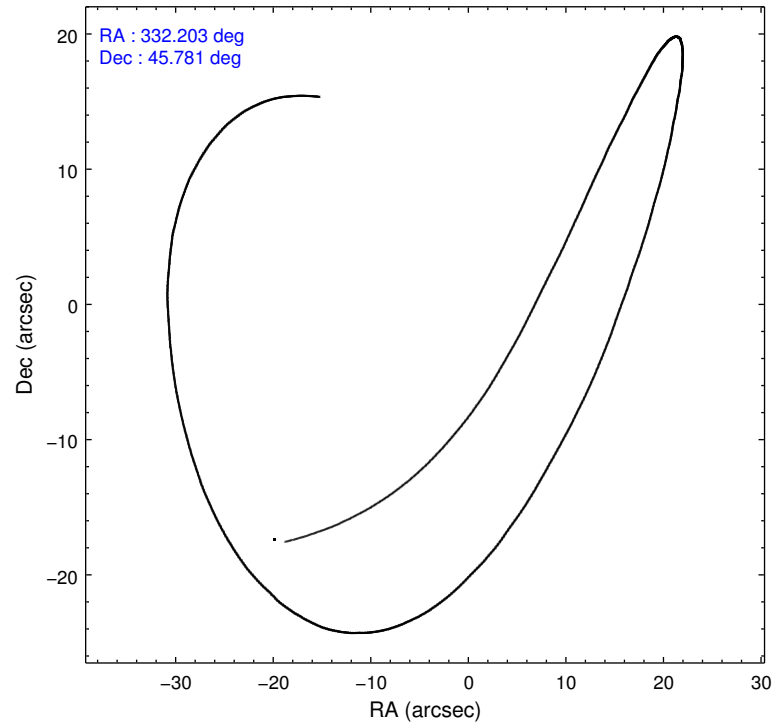
Level 1 Events

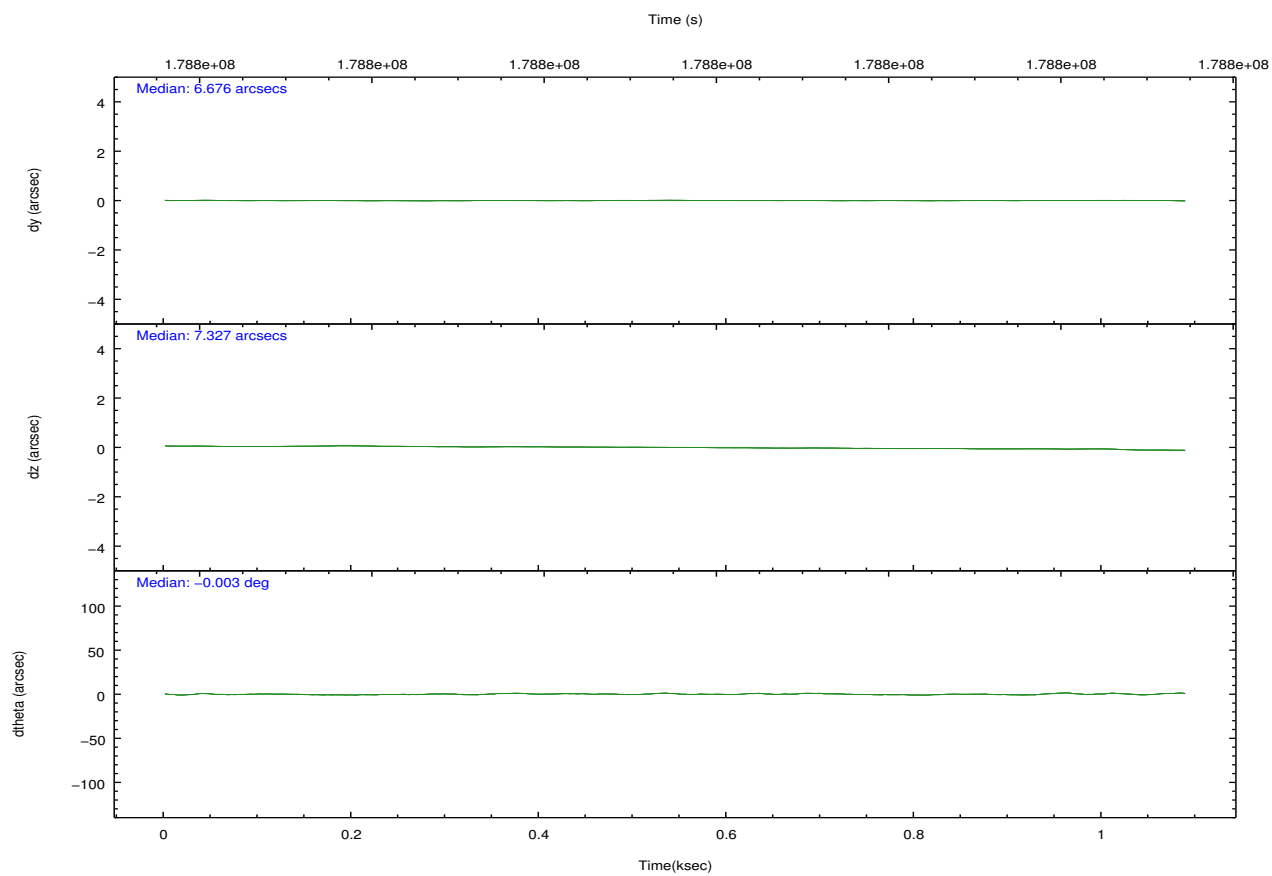
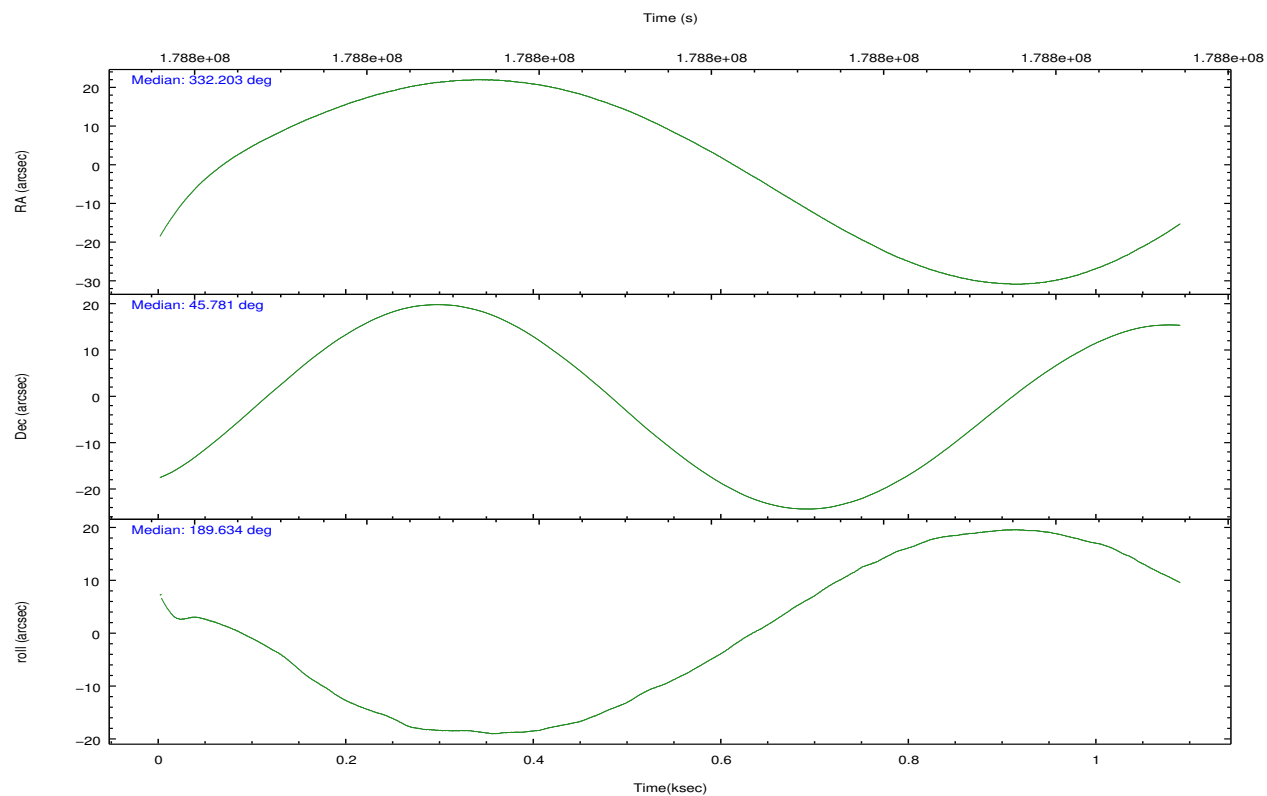
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 0 | 41573 | 0 |
| rejected events | 0 | 7203 | 0 |
| rejected % | 0% | 17% | 0% |

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 | 332.232772 | 332.2022793787789 | | | |
| [deg] Pointing Dec | 45.799388 | 45.78054377026827 | | | |
| [deg] Pointing Roll | 189.550617 | 189.6397284390479 | | | |
| [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) | 178797898.184000 | 178796571.00699 | | | |
| Observation start date | 2003-09-01T10:03:54 | 2003-09-01T09:42:51 | | | |
| [s] Observation end time (MET) | 178798898.184000 | 178799032.54459 | | | |
| Observation end date | 2003-09-01T10:20:34 | 2003-09-01T10:23:52 | | | |

2.3 Aspect



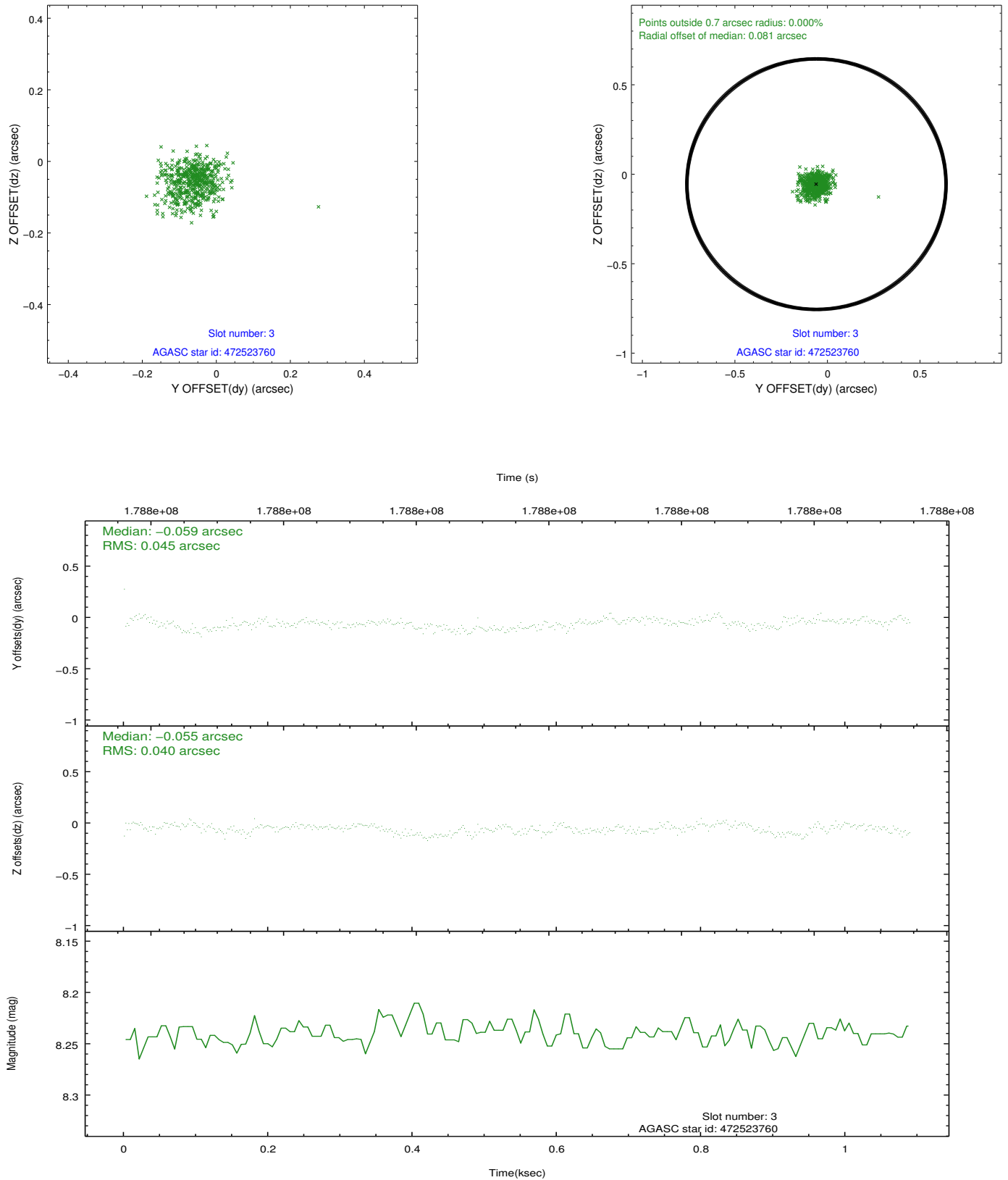


Slot Statistics

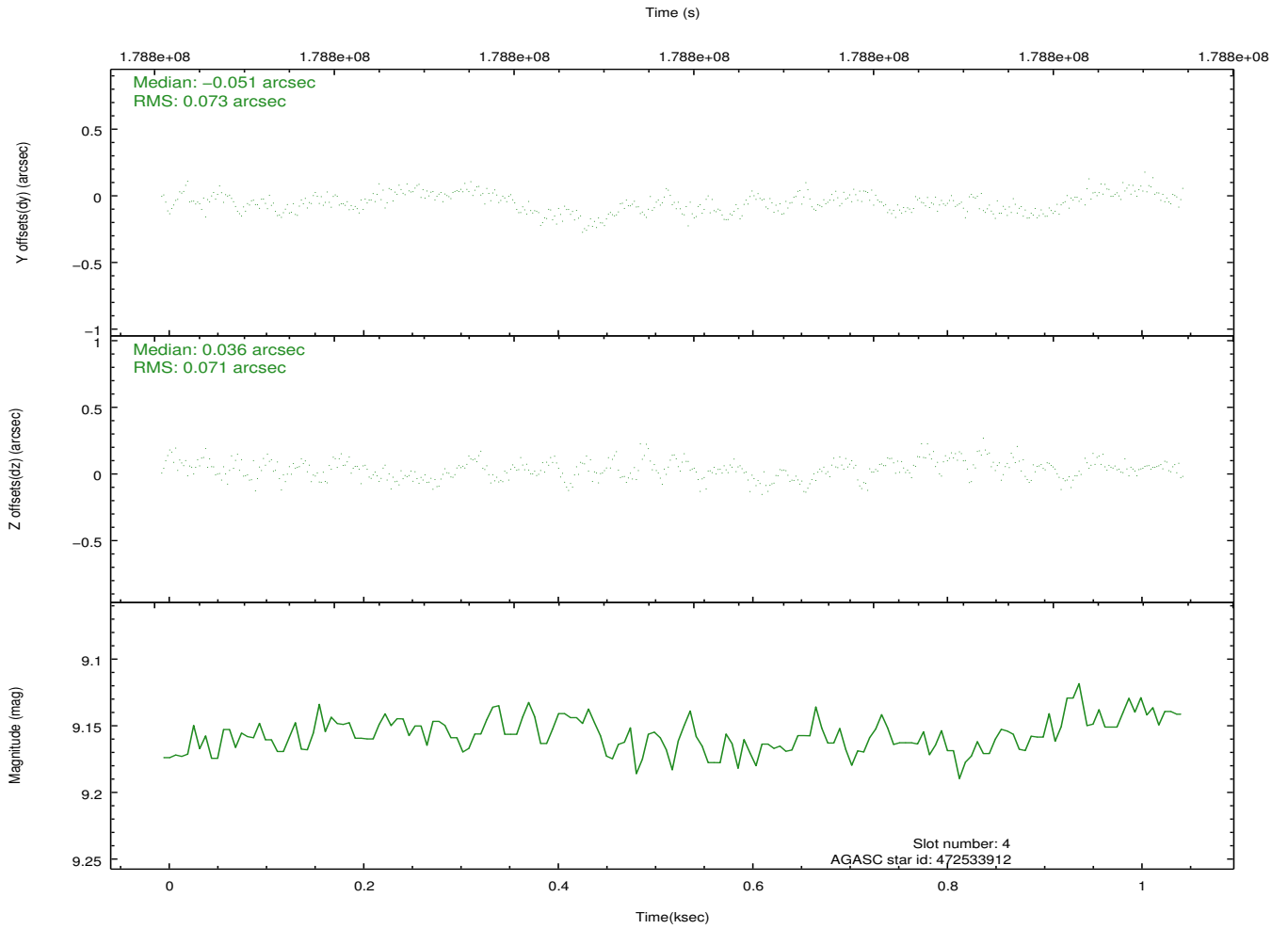
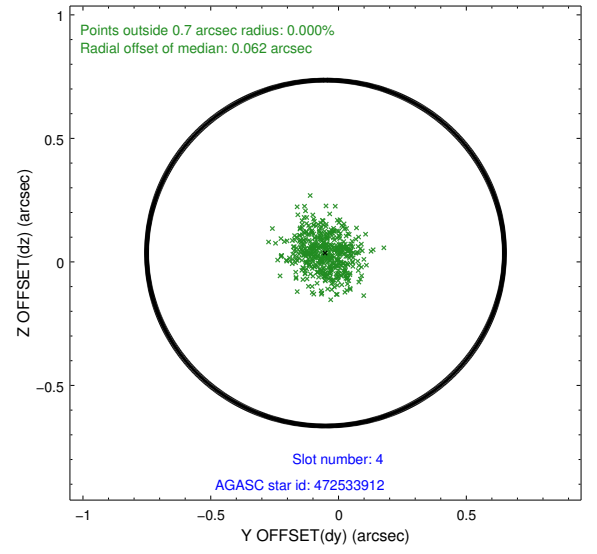
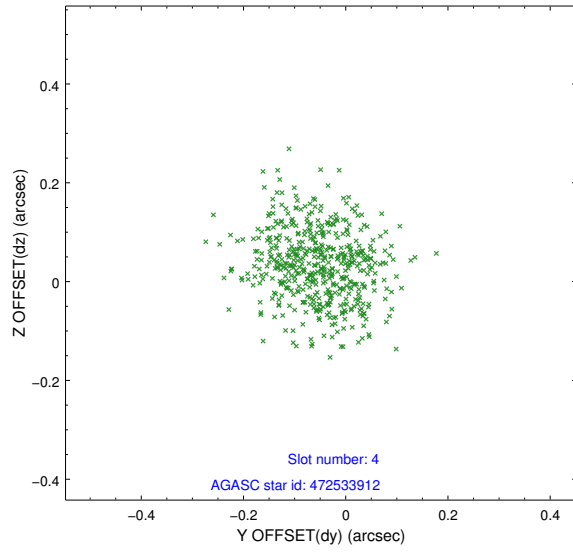
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.04 | 266 | 0.109 | -0.116 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1160.84 | -455.88 |
| 1 | FID | HRC-S-2 | 7.04 | 266 | 0.156 | -0.103 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1234.52 | -450.22 |
| 2 | FID | HRC-S-3 | 7.05 | 266 | 0.124 | -0.083 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1158.91 | 571.99 |
| 3 | GUIDE | 472523760 | 8.24 | 532 | -0.059 | -0.055 | 0.063 | 0.102 | 331.645363 | 45.403260 | 1699.69 | 1156.63 |
| 4 | GUIDE | 472533912 | 9.16 | 512 | -0.051 | 0.036 | 0.109 | 0.173 | 331.791136 | 46.368695 | 745.15 | -2201.41 |
| 5 | GUIDE | 472655152 | 9.44 | 531 | 0.099 | 0.054 | 0.101 | 0.161 | 332.504239 | 45.862991 | -707.89 | -116.29 |
| 6 | GUIDE | 472659832 | 9.47 | 532 | 0.084 | 0.022 | 0.163 | 0.305 | 332.780399 | 46.098139 | -1528.51 | -836.89 |
| 7 | GUIDE | 472527720 | 7.00 | 531 | -0.107 | -0.040 | 0.071 | 0.148 | 331.460205 | 45.112509 | 2341.15 | 2104.08 |

2.4 Star Slots

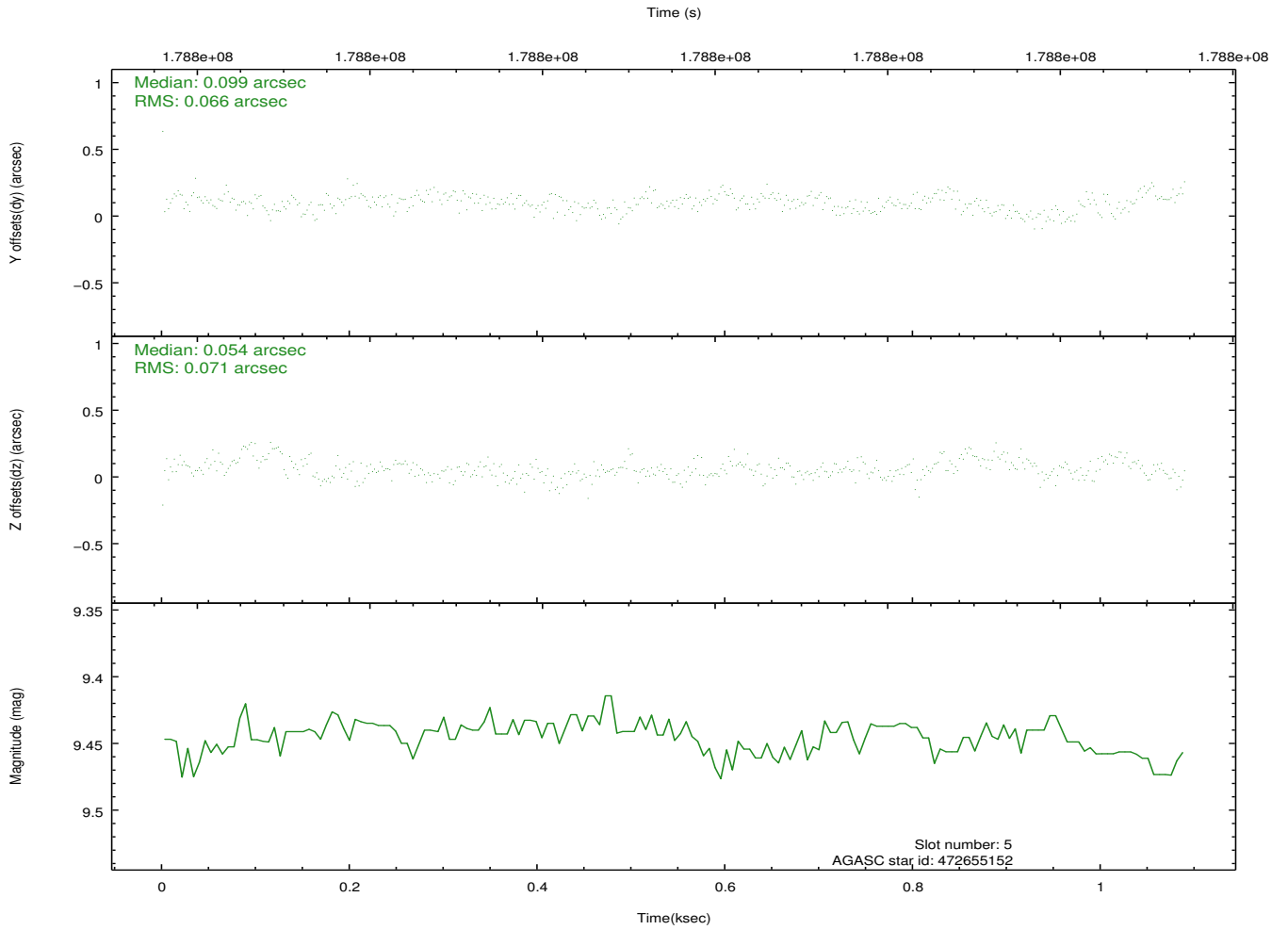
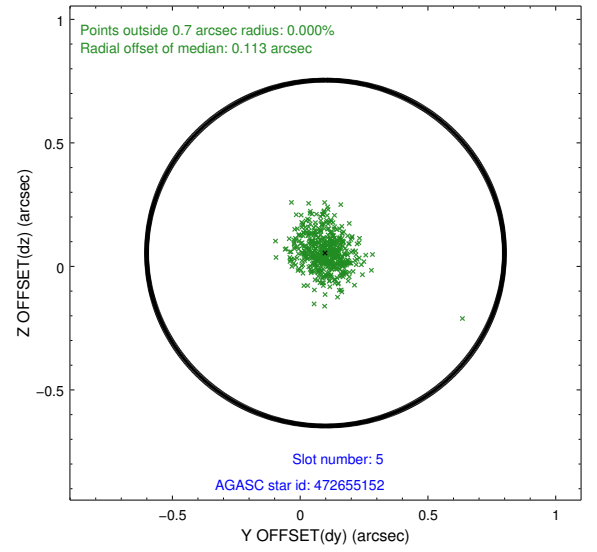
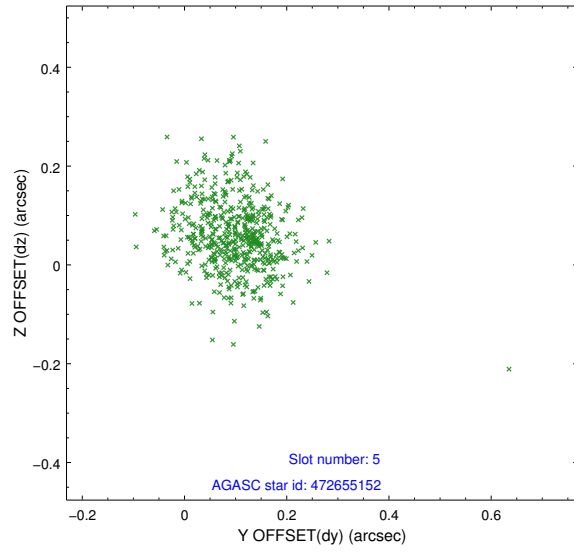
2.4.1 Slot 3



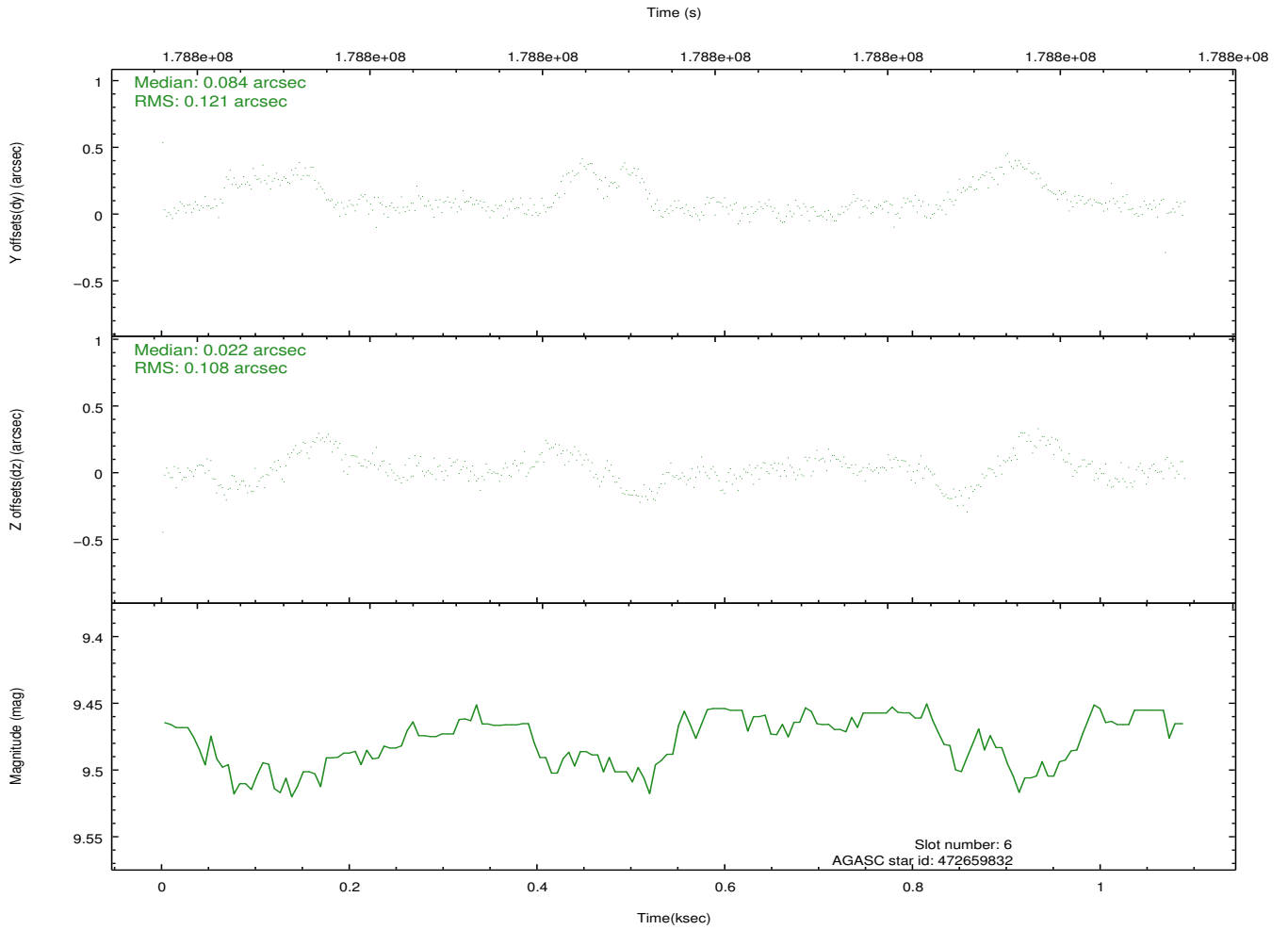
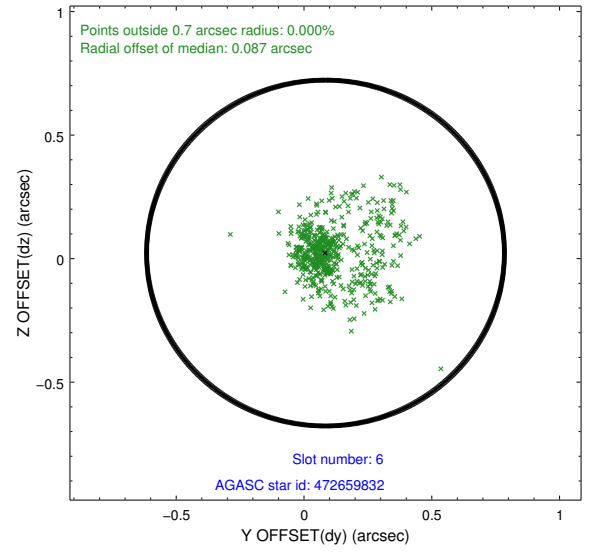
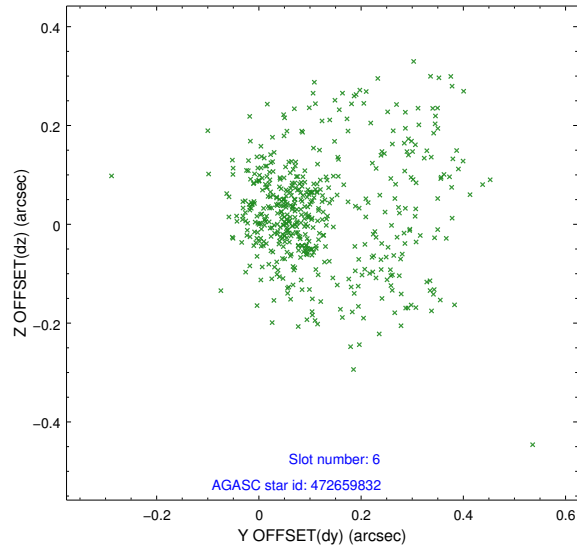
2.4.2 Slot 4



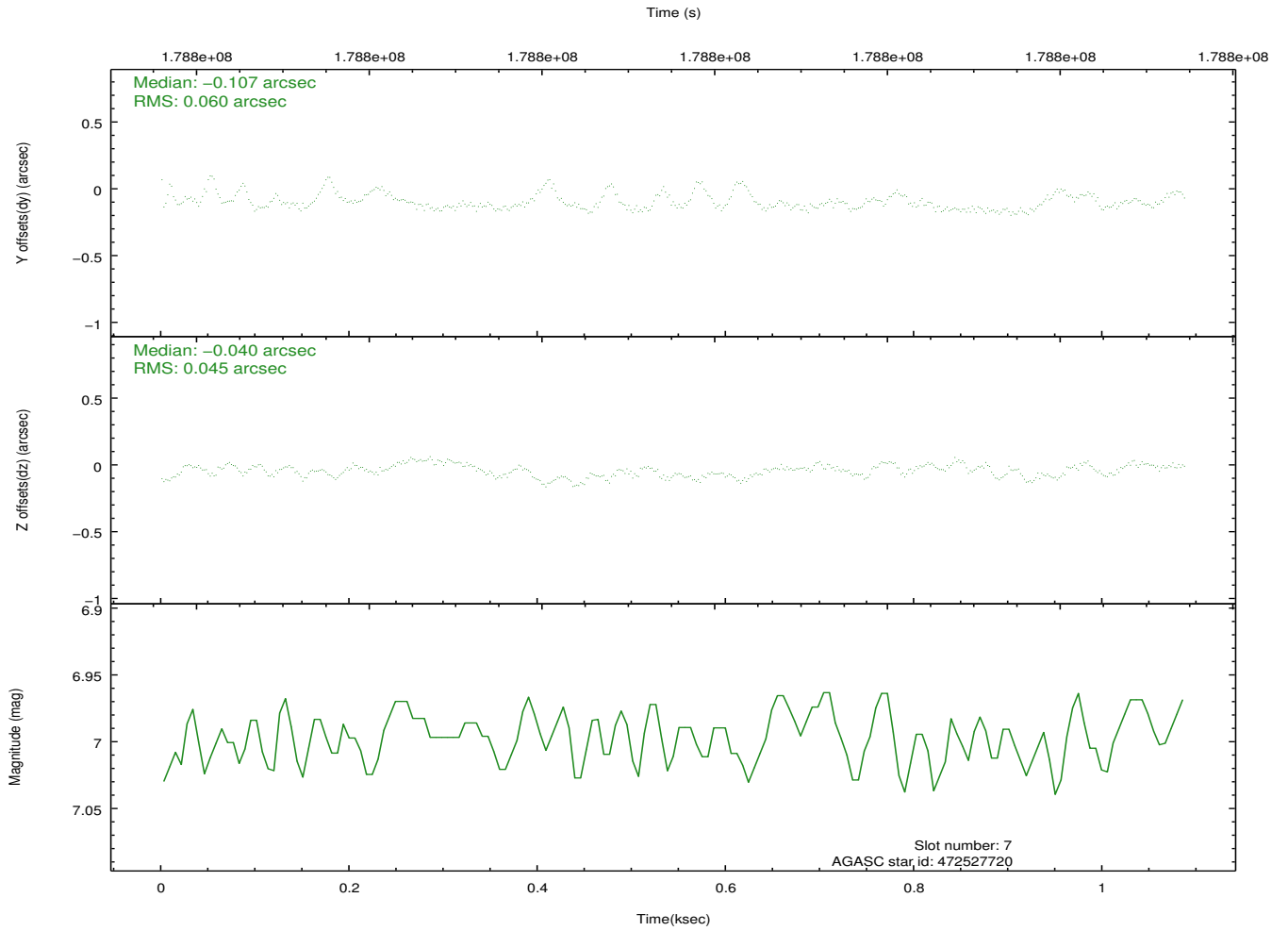
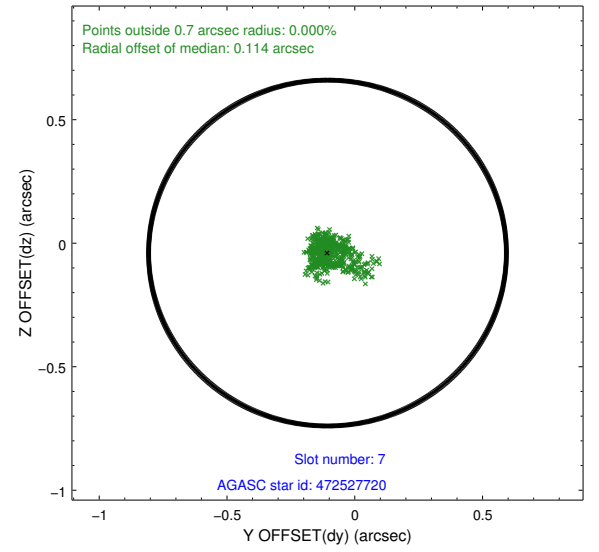
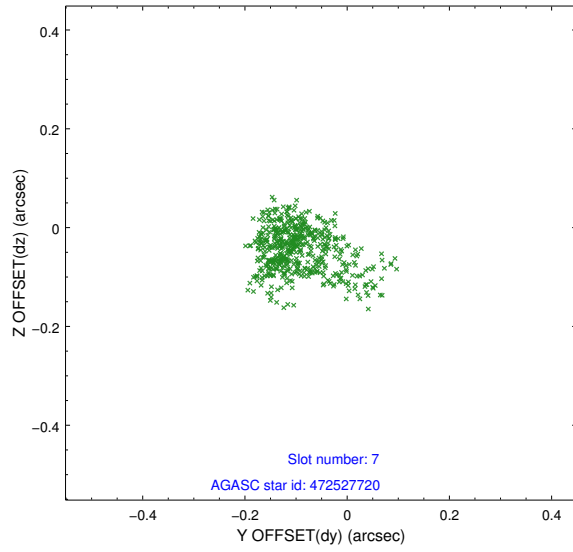
2.4.3 Slot 5



2.4.4 Slot 6

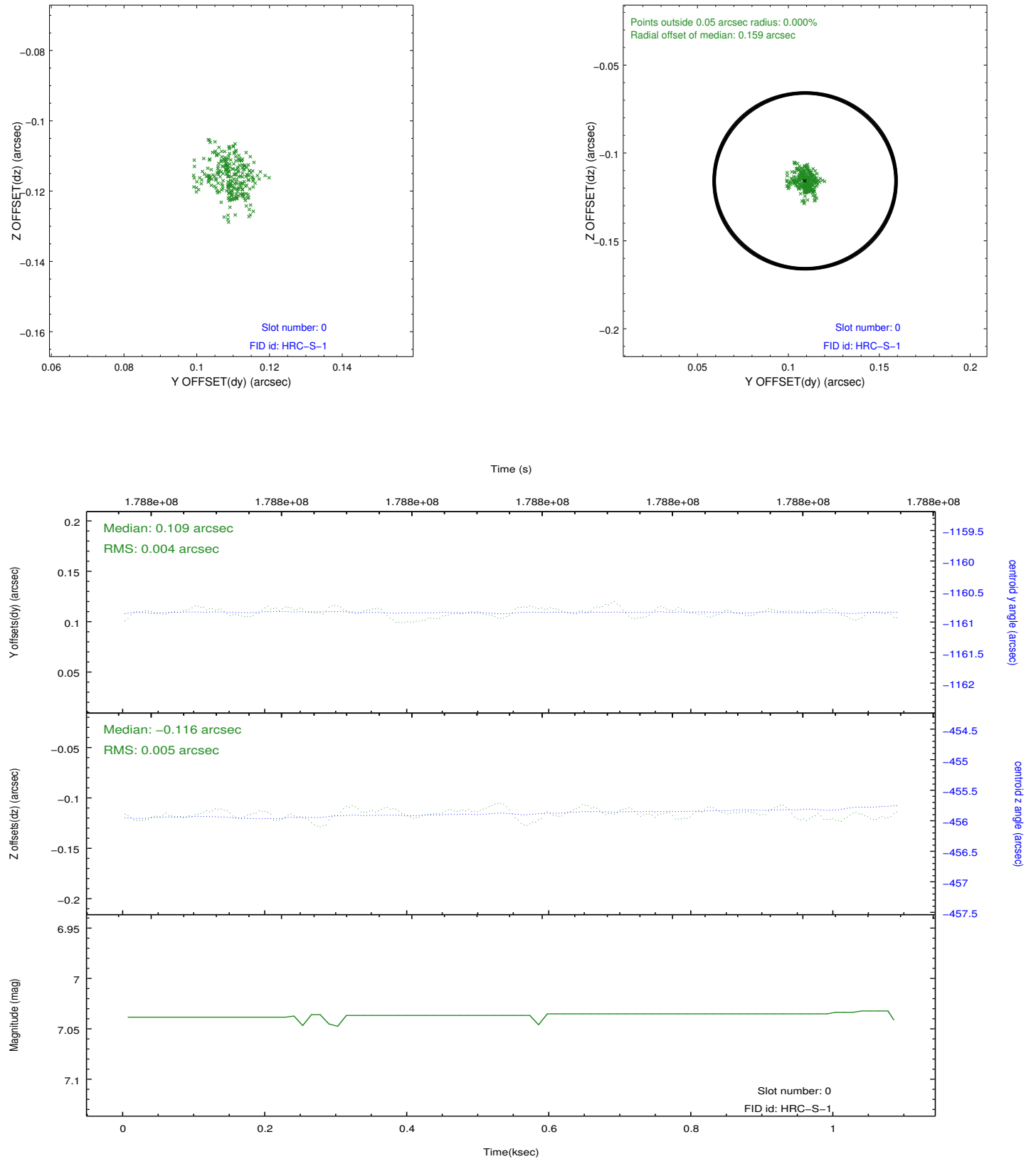


2.4.5 Slot 7

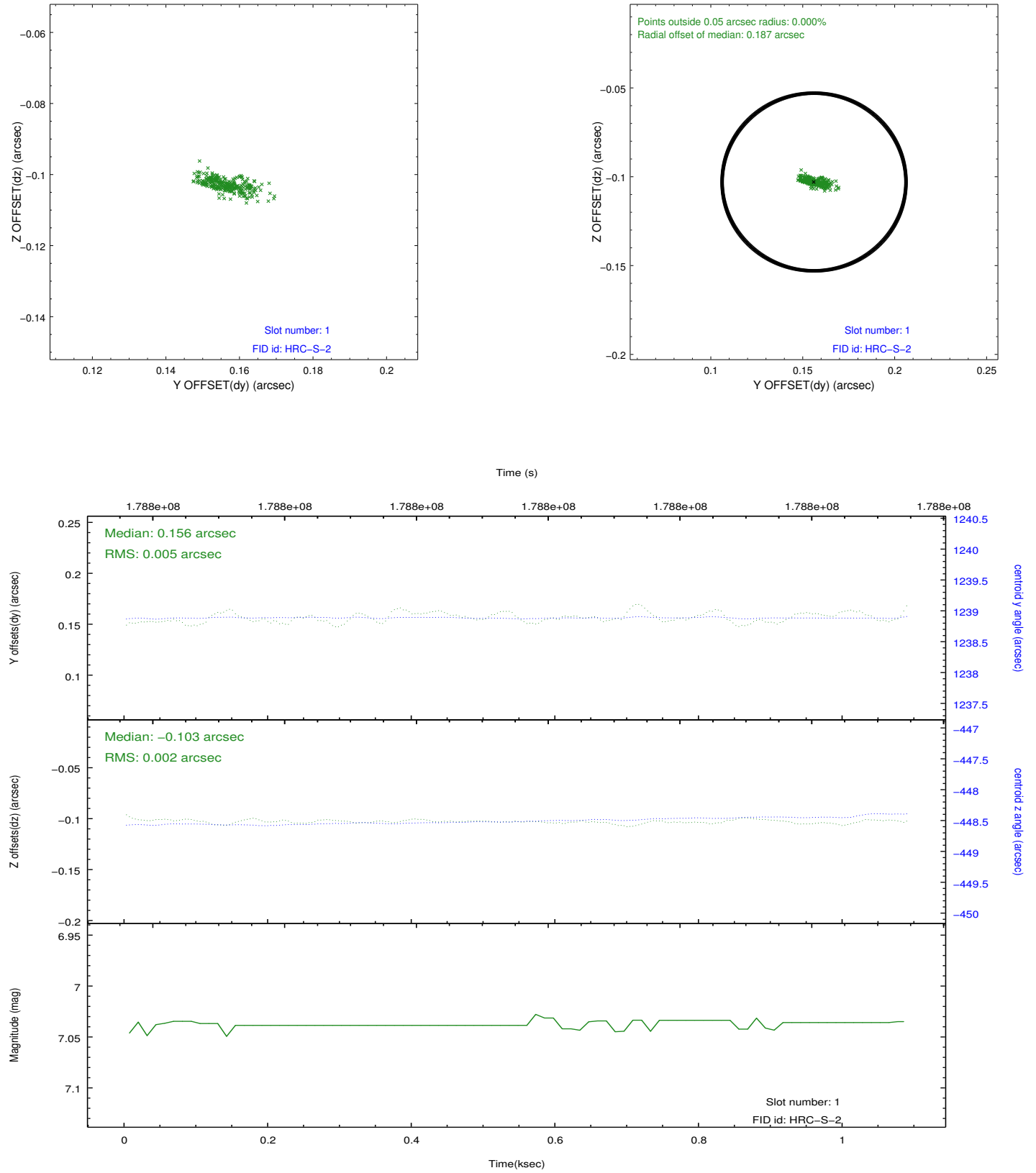


2.5 FID Slots

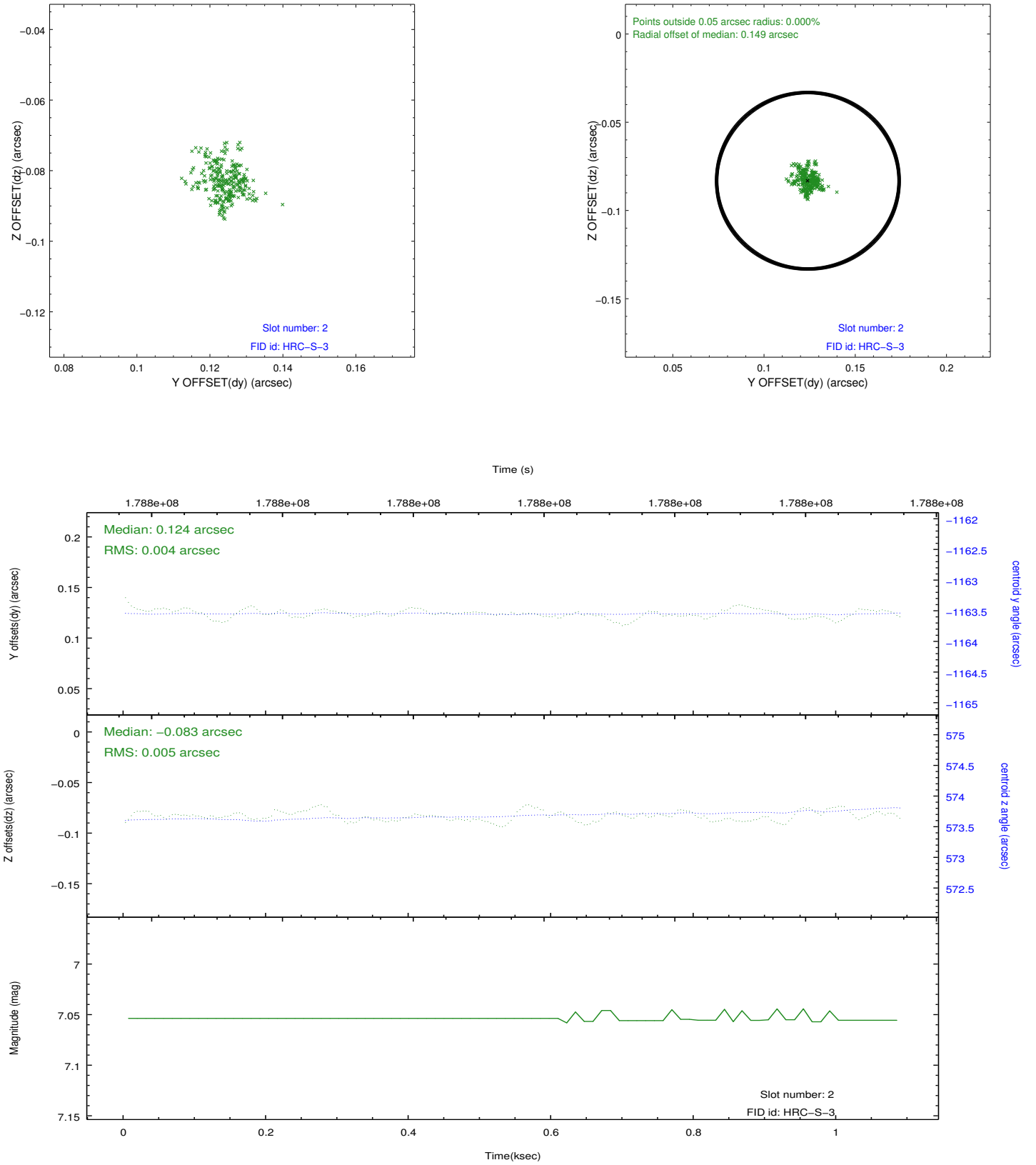
2.5.1 Slot 0



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) | 2012.11.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 0.82 |

A.2 Comments