

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10623 - L2 Version 3
Chandra X-Ray Center

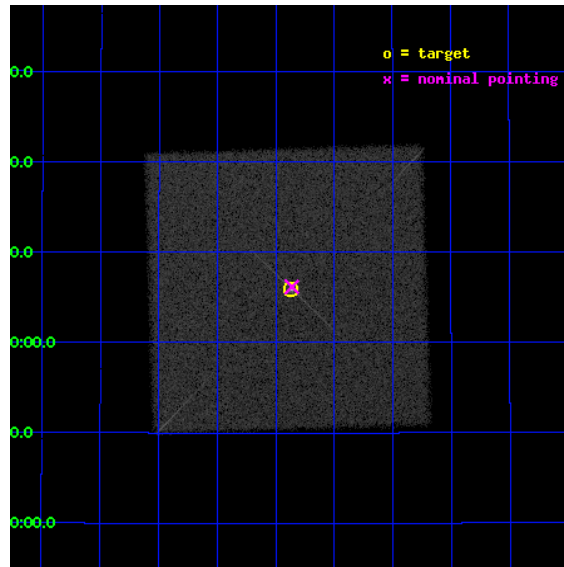
L2 Processing Date : Aug 13 2012

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1 Front

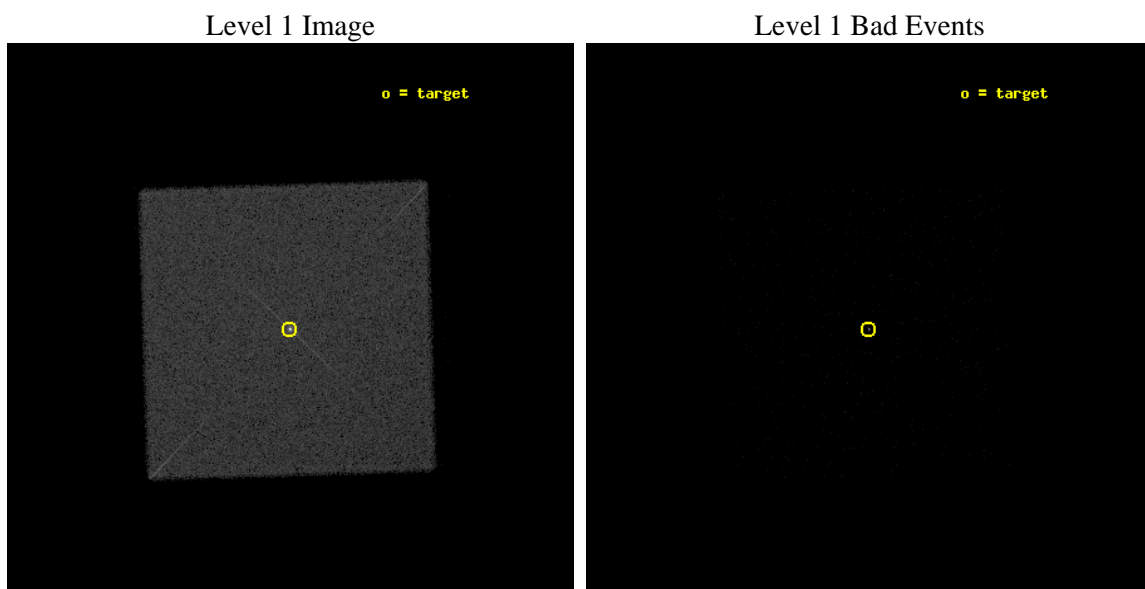
| | | |
|-----------|--|---------------------------------------|
| seq_num | 290859 | Sequence number |
| obs_id | 10623 | Observation id |
| title | AO-10 Calibration Observations of HZ43 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | HZ43 | Source name |
| ra_targ | 199.092083 | Observer's specified target RA [deg] |
| dec_targ | 29.099 | Observer's specified target Dec [deg] |
| ra_nom | 199.09042613979 | Nominal RA [deg] |
| dec_nom | 29.102991913885 | Nominal Dec [deg] |
| roll_nom | 133.28081586295 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 2186.5813586116 | [s] |
| liveltime | 2160.3444284499 | Ontime multiplied by DTCOR |
| l2events | 165361 | 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 | 2000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 2186.5813586116 | [s] |
| caldbver | 4.5.1.1 | | l1events | 324048 | Number of level 1 events |
| date | 2012-08-13T02:44:06 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

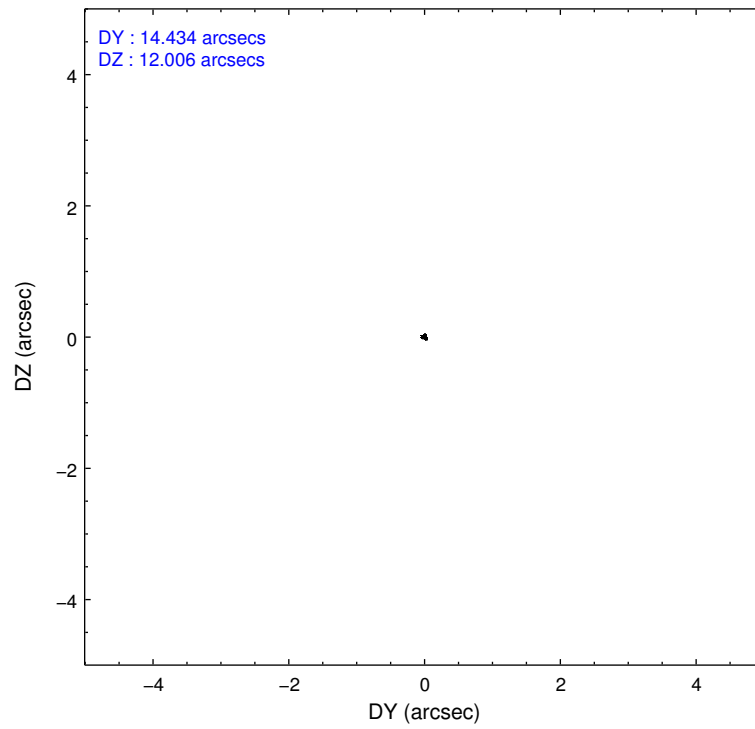
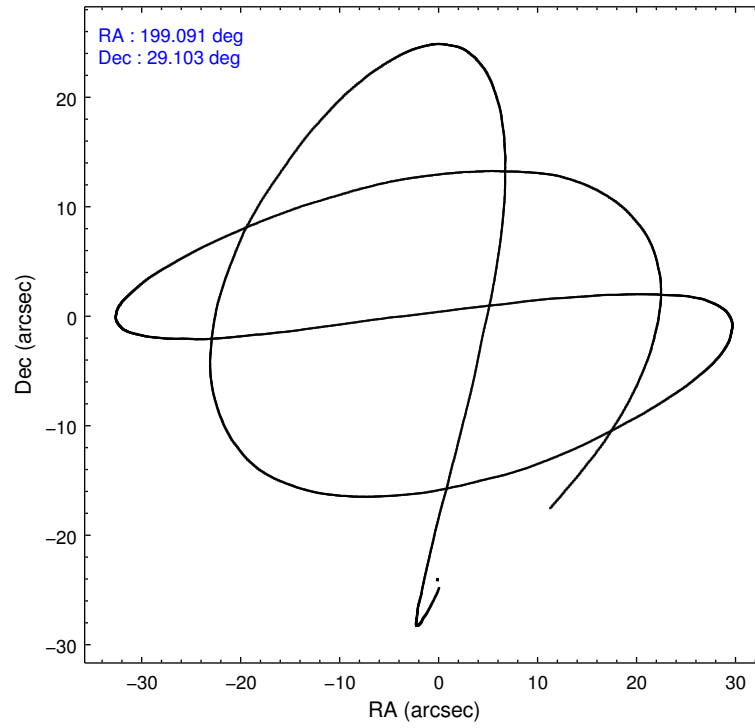
Level 1 Events

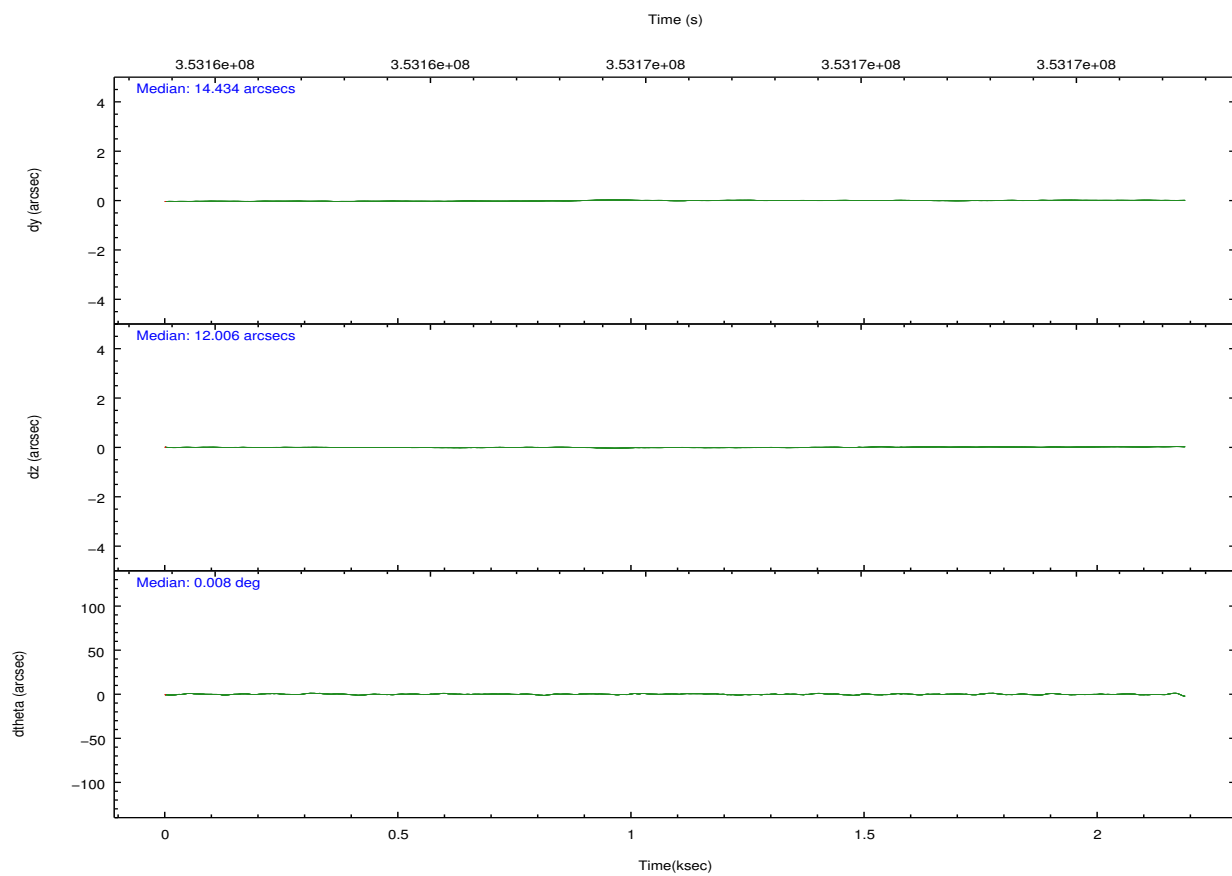
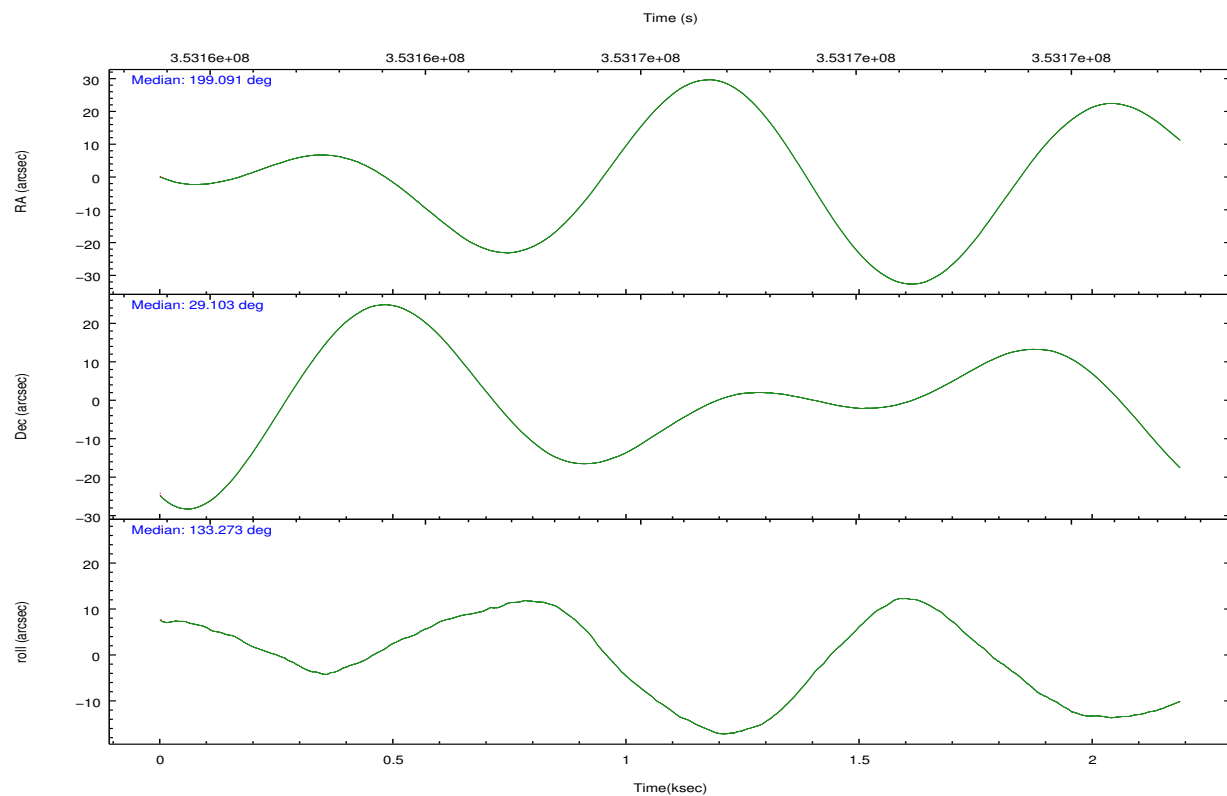
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 324048 |
| rejected events | 86894 |
| rejected % | 26% |

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 | LETG | LETG | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 199.120309 | 199.0904261397932 | | | |
| [deg] Pointing Dec | 29.095702 | 29.10299191388468 | | | |
| [deg] Pointing Roll | 133.361741 | 133.2808158629534 | | | |
| [s] Window start time (MET) | 349833666.184000 | 349833666.184000 | | | |
| [s] Window stop time (MET) | 354931266.184000 | 354931266.184000 | | | |
| [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) | 353164669.184000 | 353163717.44545 | | | |
| Observation start date | 2009-03-11T13:16:43 | 2009-03-11T13:01:57 | | | |
| [s] Observation end time (MET) | 353166669.184000 | 353167742.10815 | | | |
| Observation end date | 2009-03-11T13:50:03 | 2009-03-11T14:09:02 | | | |

2.3 Aspect



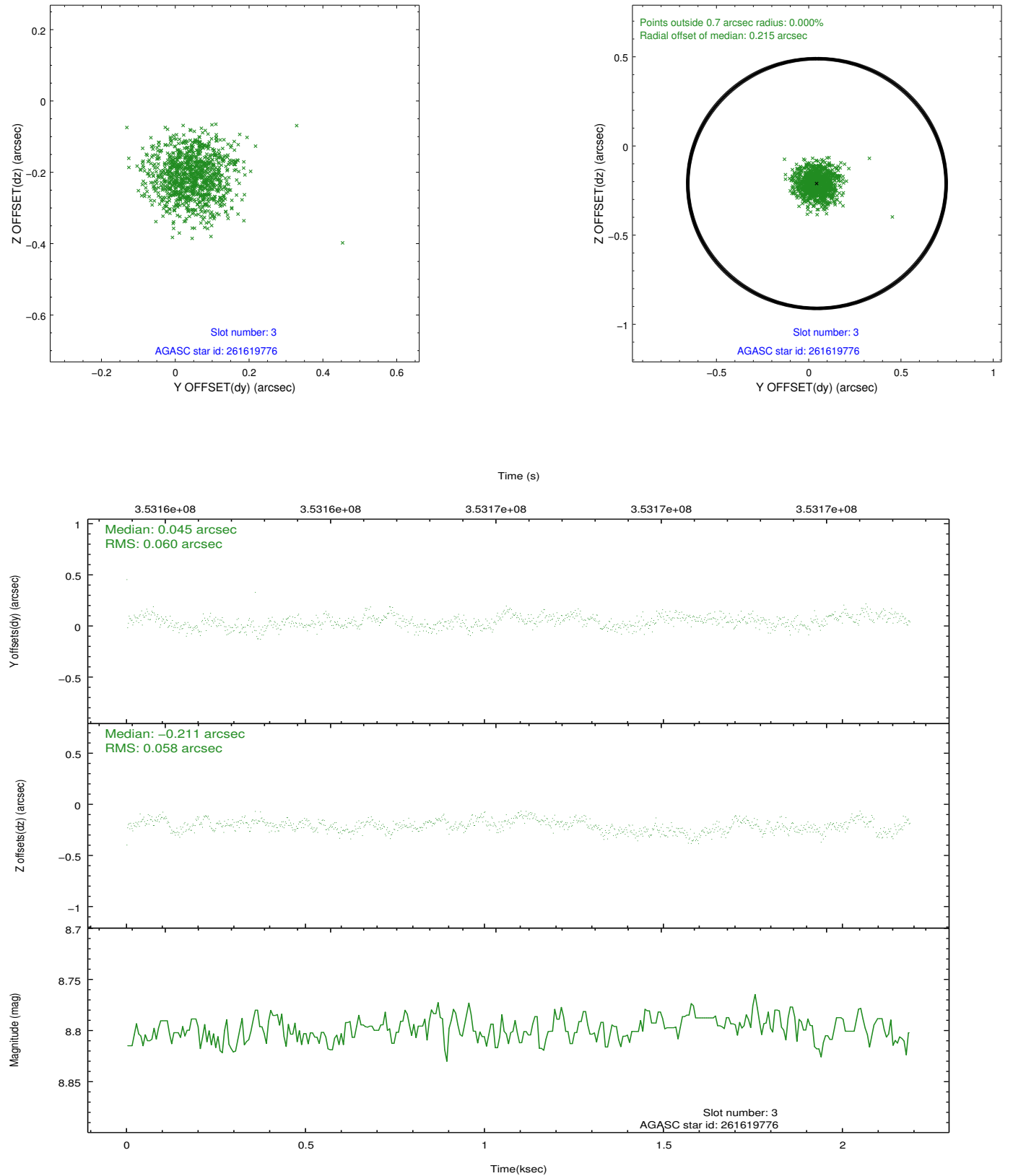


Slot Statistics

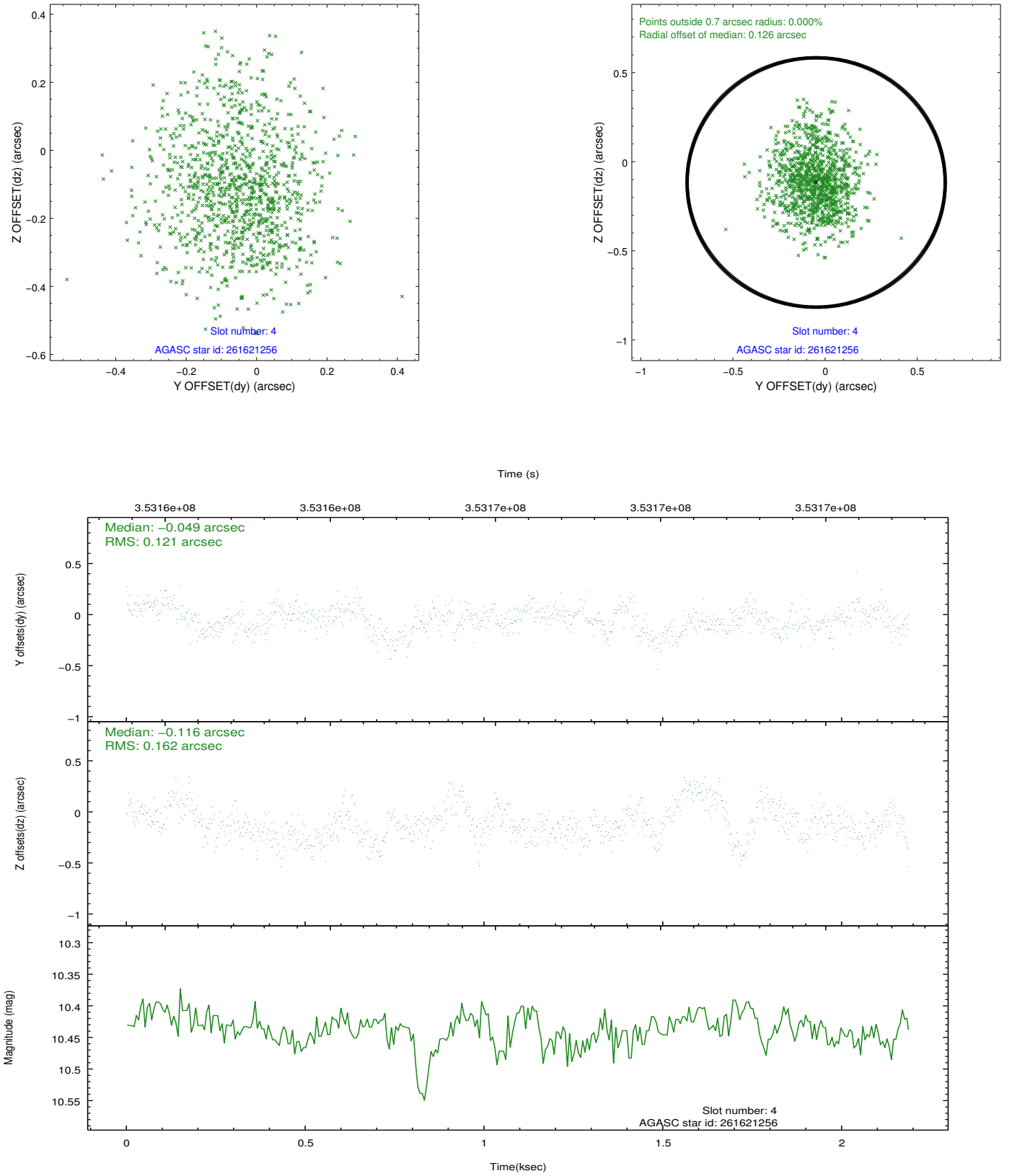
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.96 | 534 | -0.068 | 0.011 | 0.007 | 0.011 | 0.000000 | 0.000000 | -770.28 | -1300.00 |
| 1 | FID | HRC-I-2 | 7.00 | 534 | 0.241 | -0.145 | 0.006 | 0.010 | 0.000000 | 0.000000 | 841.22 | -1304.15 |
| 2 | FID | HRC-I-3 | 7.06 | 534 | -0.054 | 0.045 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1197.18 | 1002.16 |
| 3 | GUIDE | 261619776 | 8.80 | 1066 | 0.045 | -0.211 | 0.089 | 0.137 | 198.654383 | 29.401174 | 1804.70 | 305.91 |
| 4 | GUIDE | 261621256 | 10.44 | 1067 | -0.049 | -0.116 | 0.217 | 0.351 | 198.855442 | 28.471997 | -1054.57 | 2151.29 |
| 5 | GUIDE | 261621400 | 6.98 | 1068 | -0.105 | -0.073 | 0.081 | 0.127 | 198.901600 | 28.741982 | -451.99 | 1378.47 |
| 6 | GUIDE | 261626376 | 9.69 | 1063 | 0.044 | 0.095 | 0.167 | 0.261 | 198.947288 | 29.347445 | 1032.27 | -225.42 |
| 7 | GUIDE | 261629720 | 8.12 | 1066 | 0.065 | 0.309 | 0.080 | 0.134 | 199.236176 | 29.044452 | -382.99 | -137.89 |

2.4 Star Slots

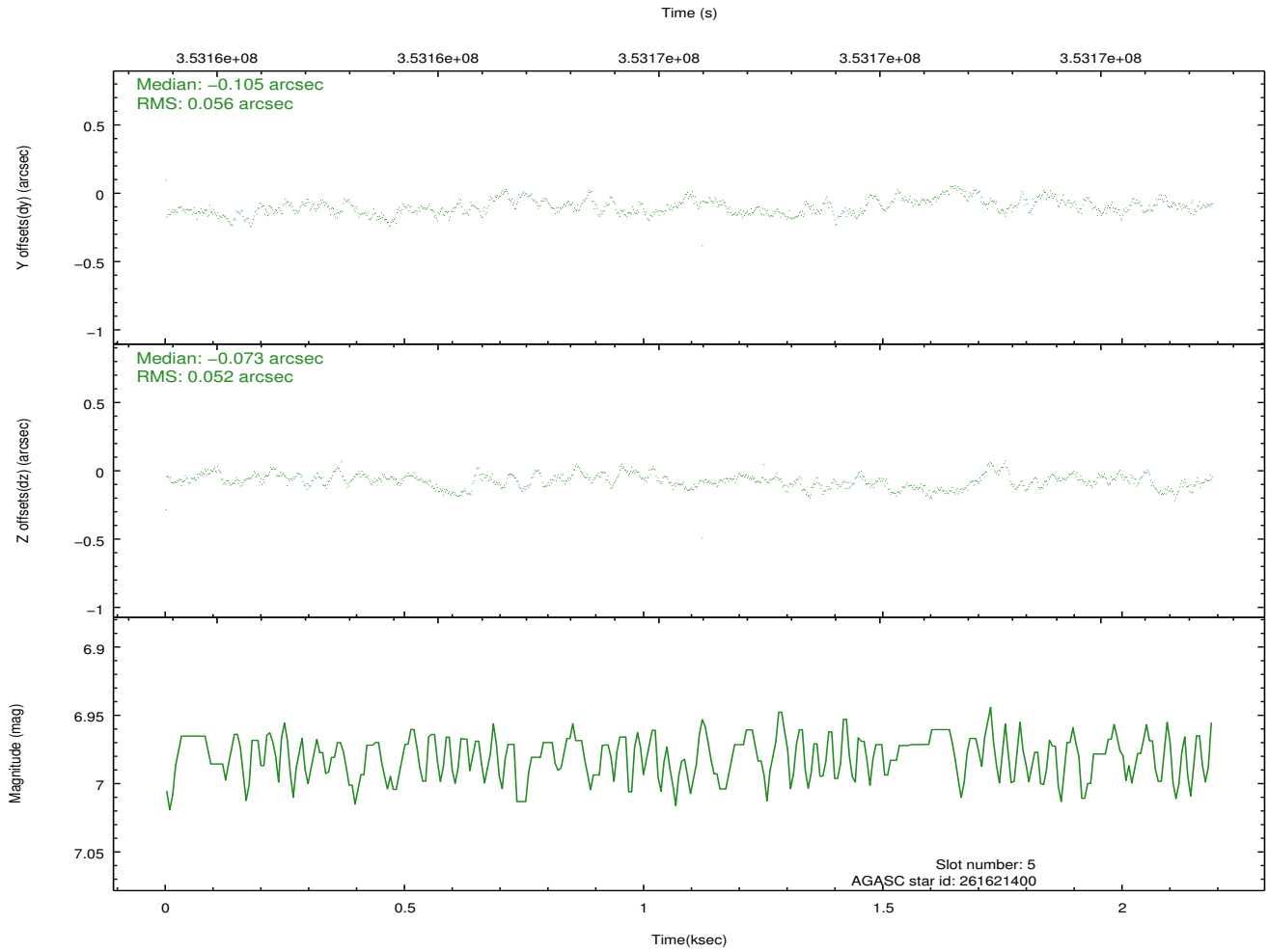
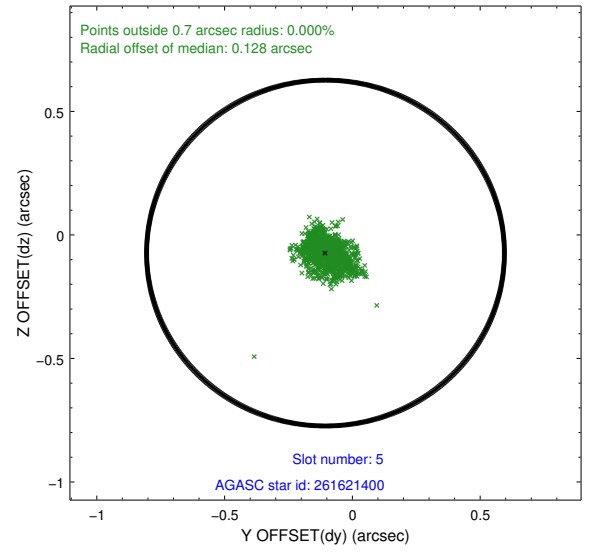
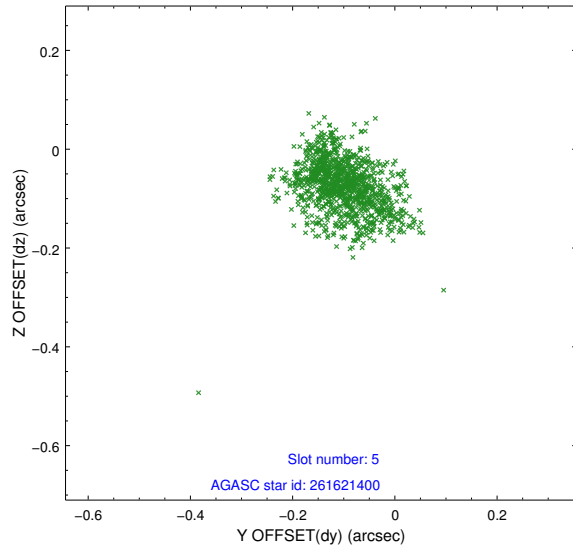
2.4.1 Slot 3



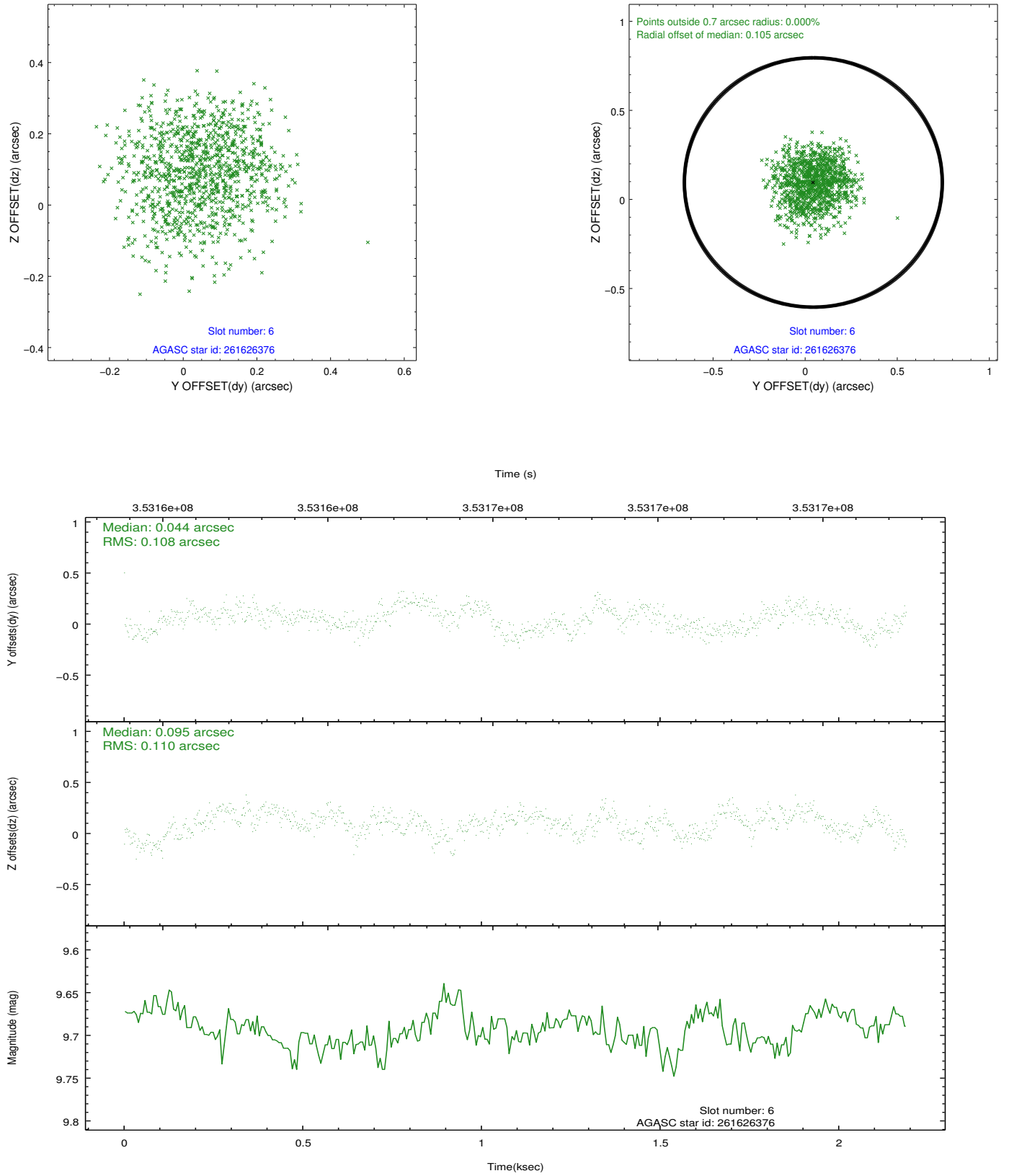
2.4.2 Slot 4



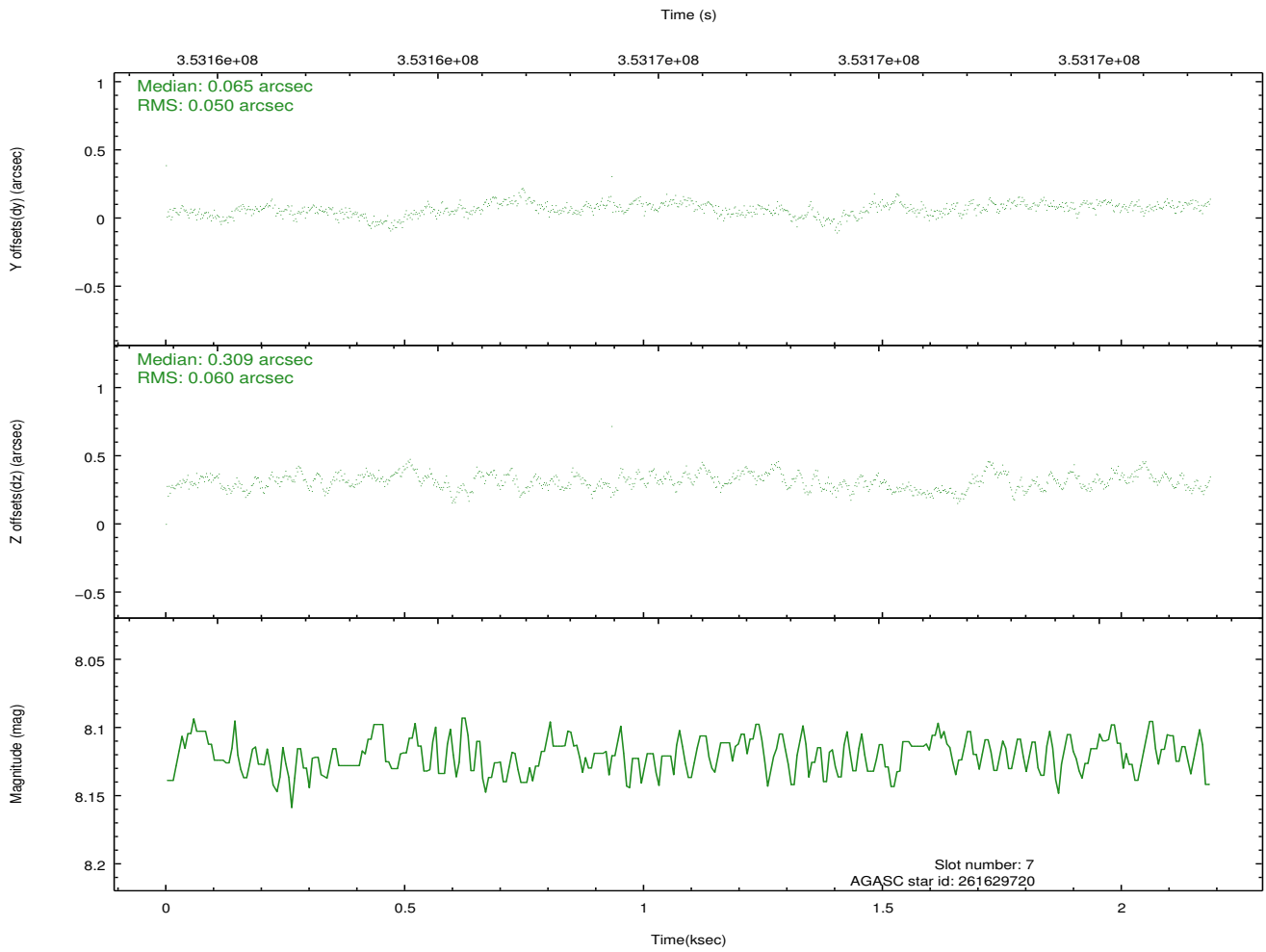
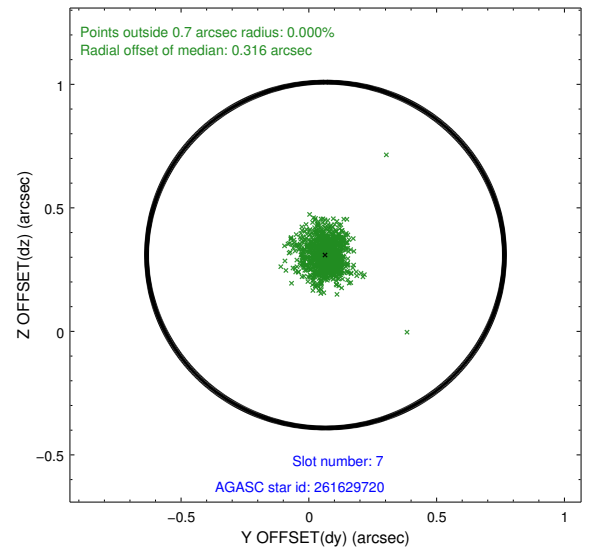
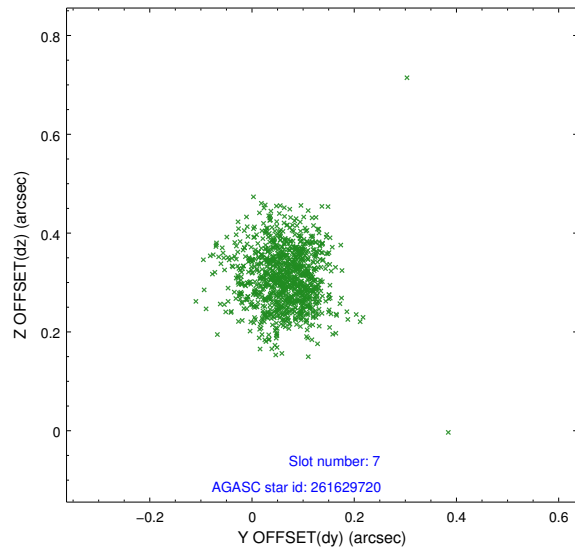
2.4.3 Slot 5



2.4.4 Slot 6

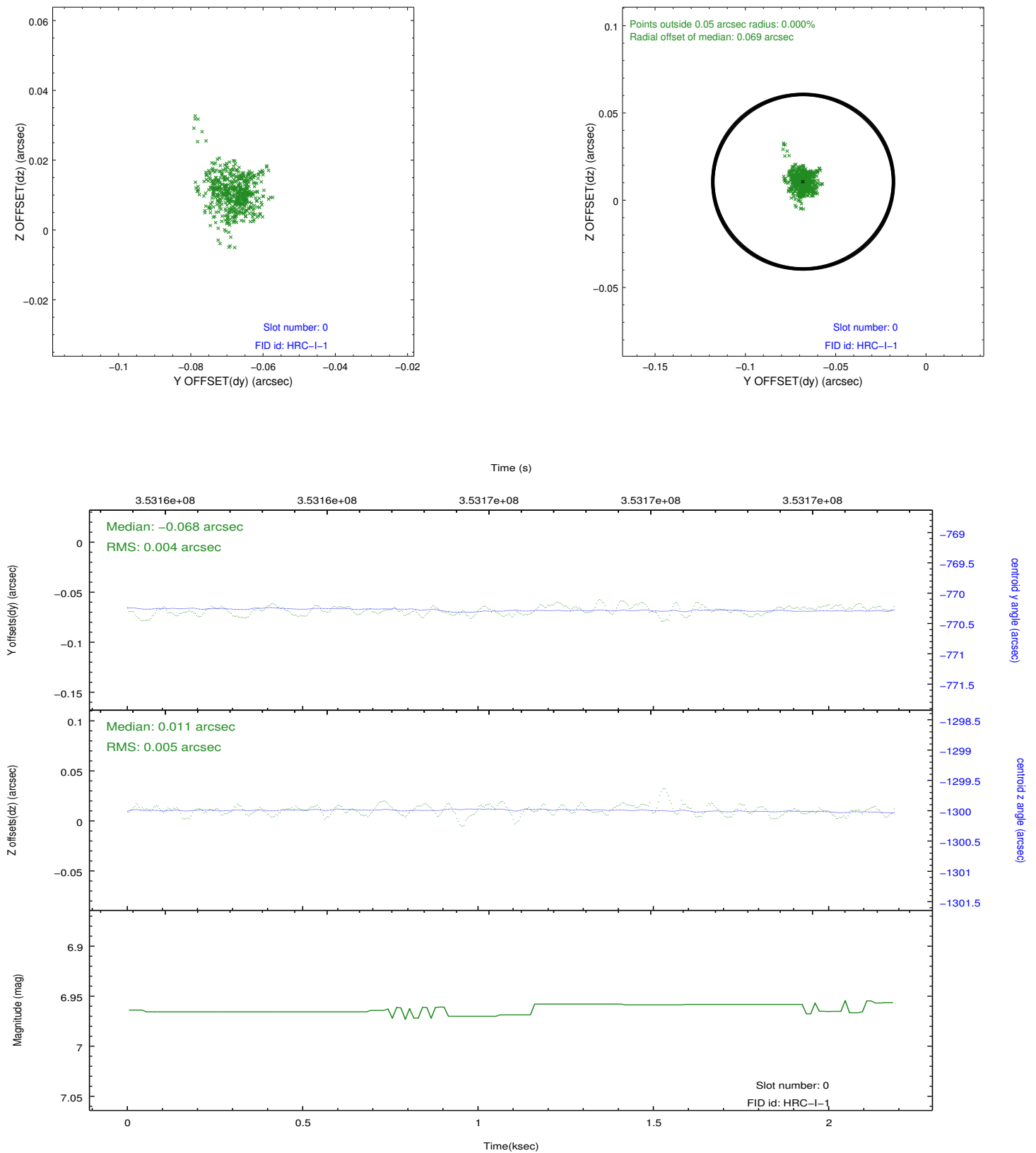


2.4.5 Slot 7

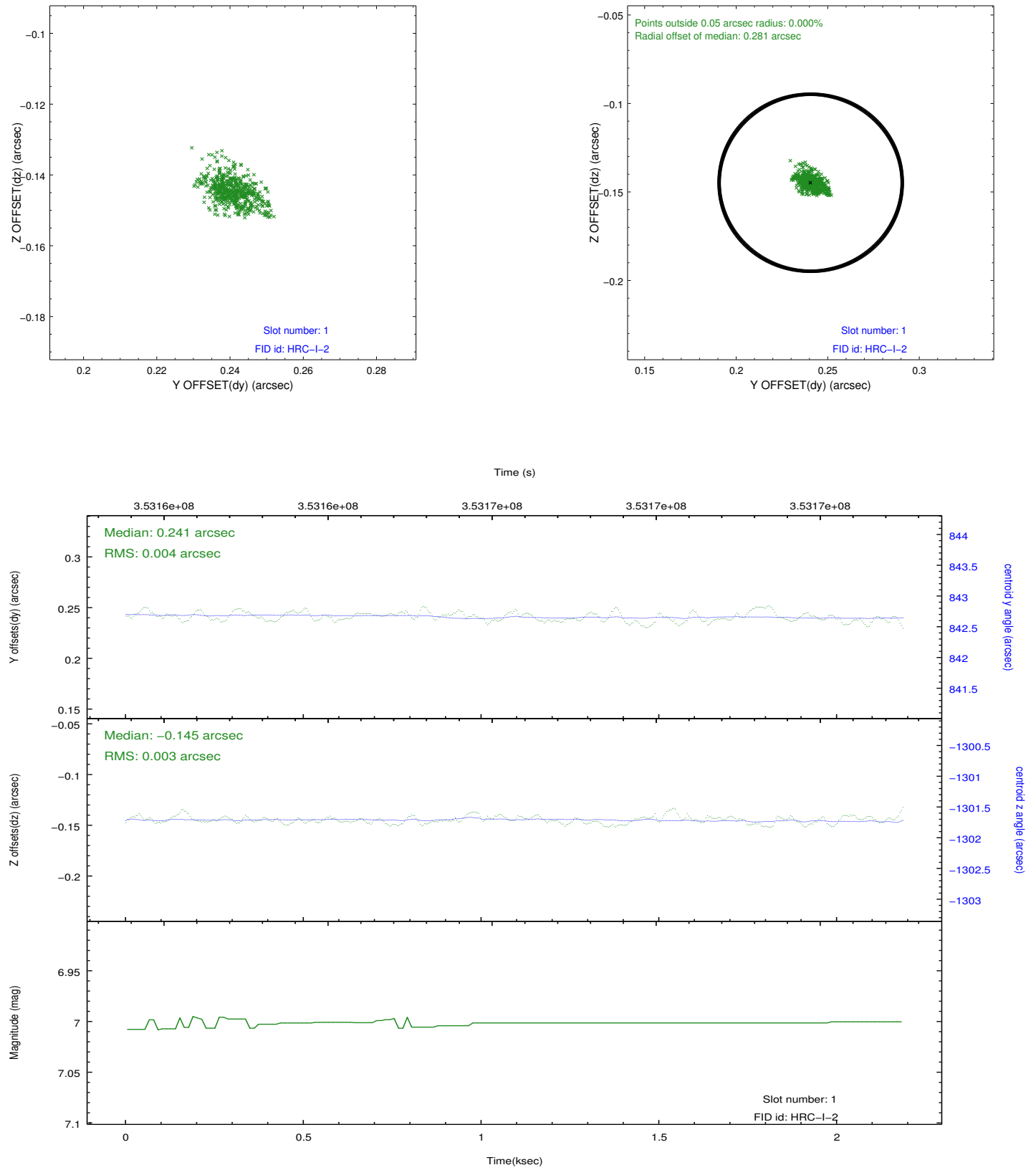


2.5 FID Slots

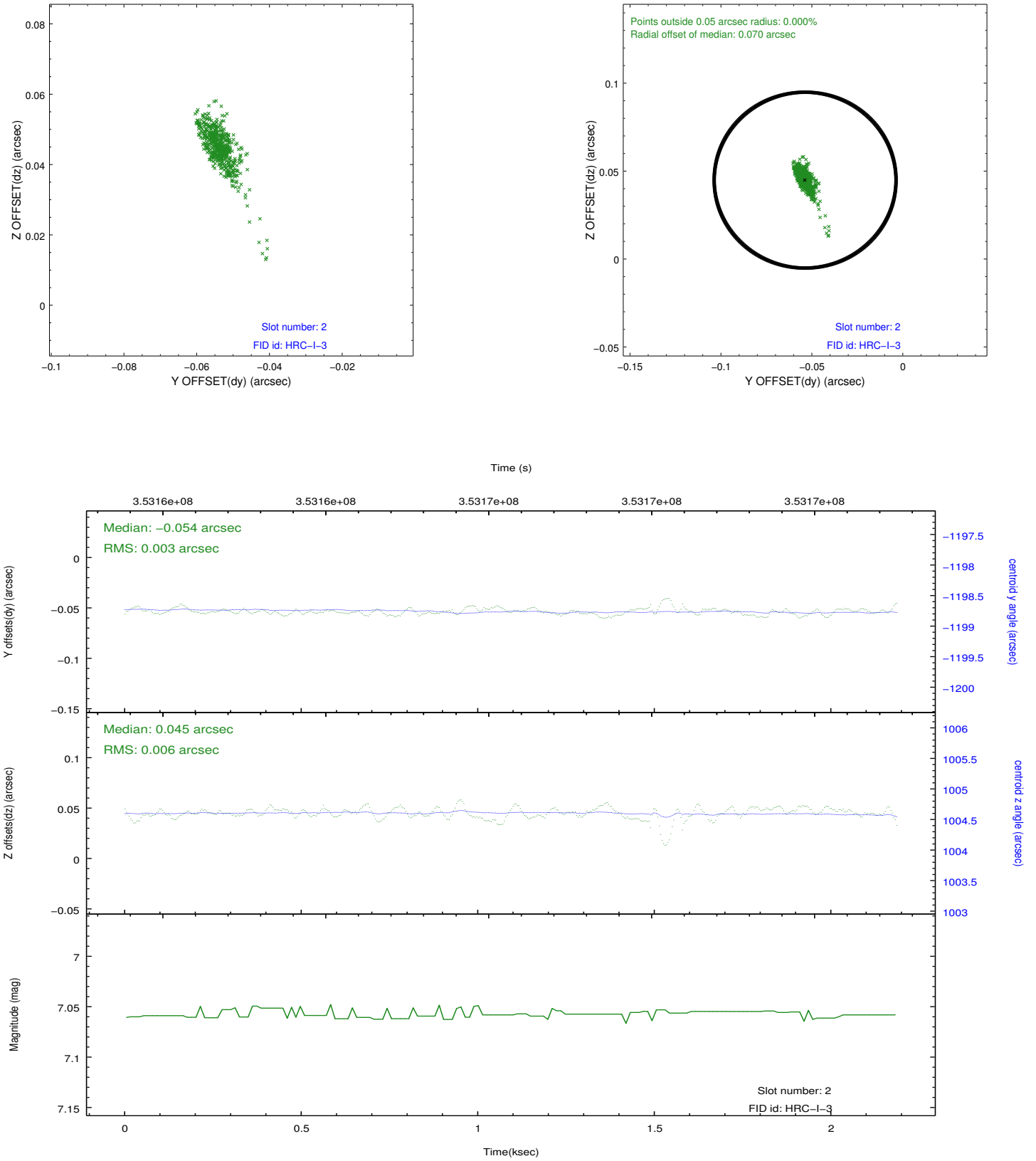
2.5.1 Slot 0



2.5.2 Slot 1

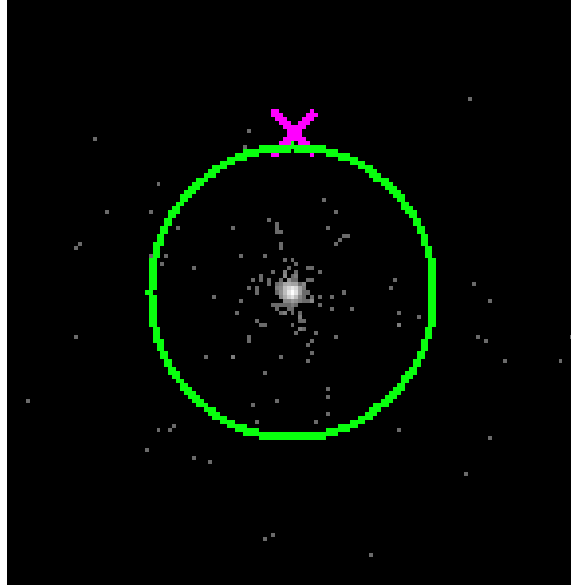


2.5.3 Slot 2

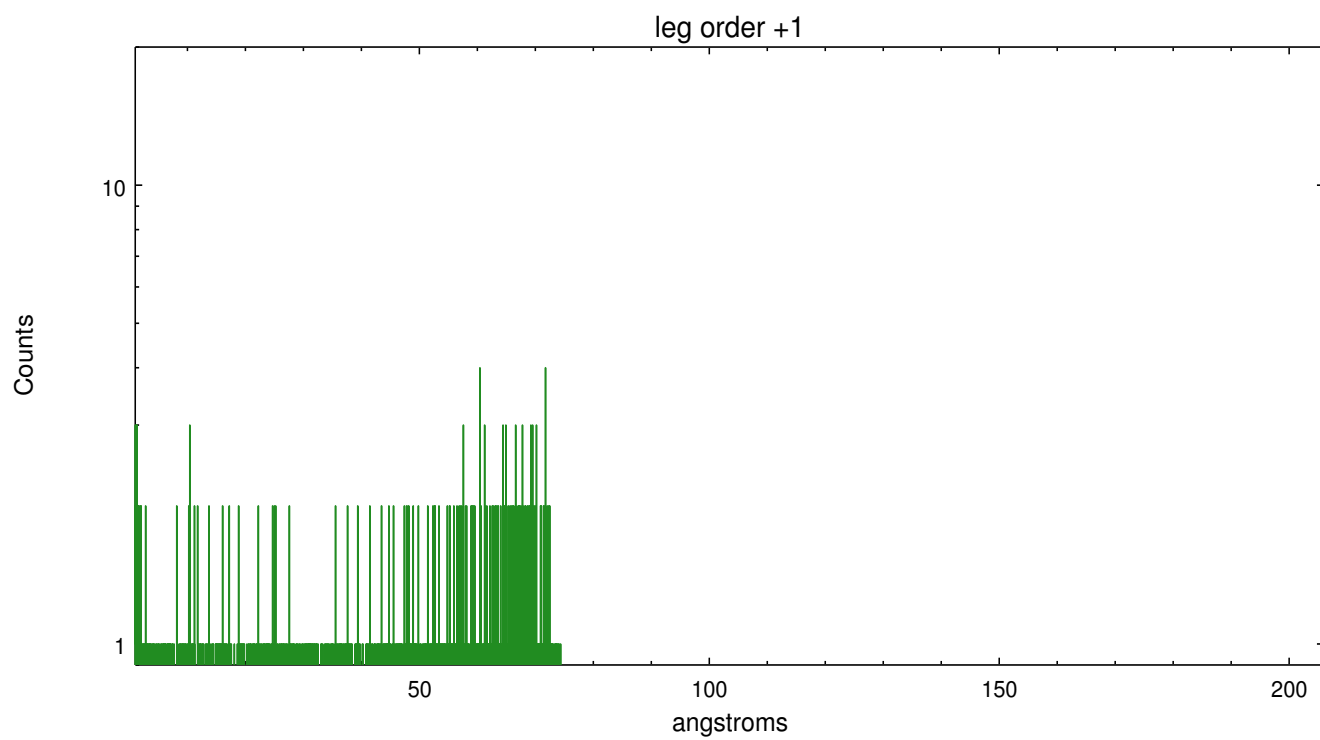
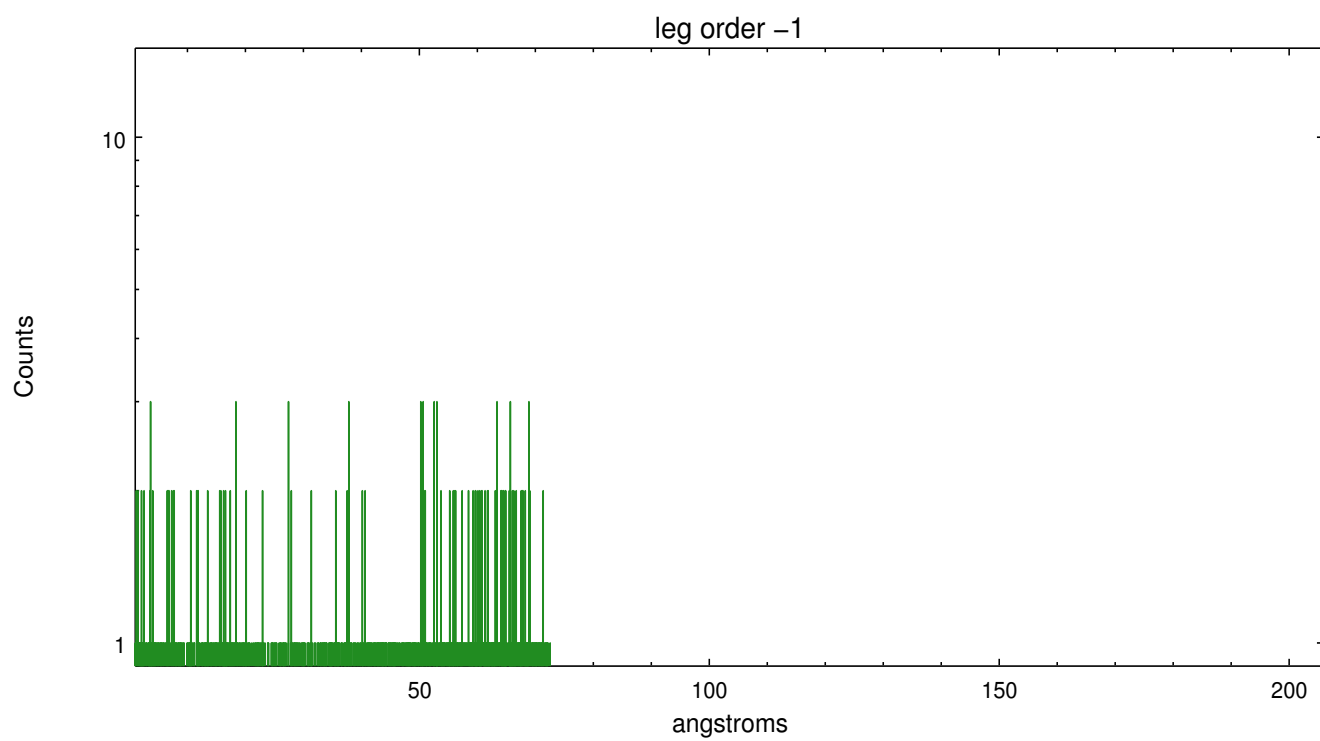


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.08.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.18658135 |

A.2 Comments