

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11934 - L2 Version 2
Chandra X-Ray Center

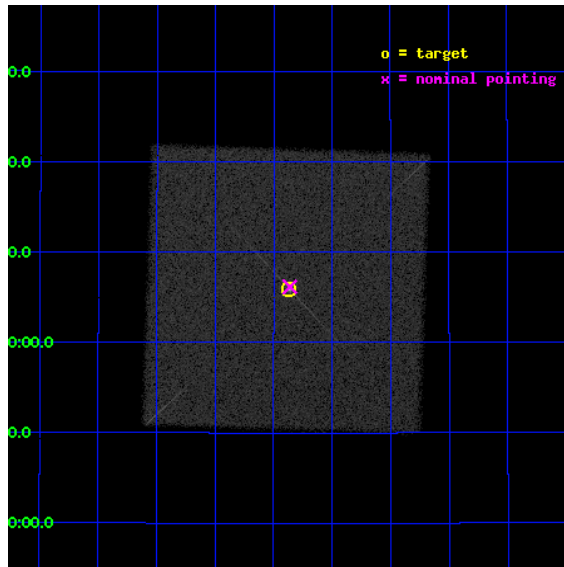
L2 Processing Date : Jun 27 2012

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1 Front

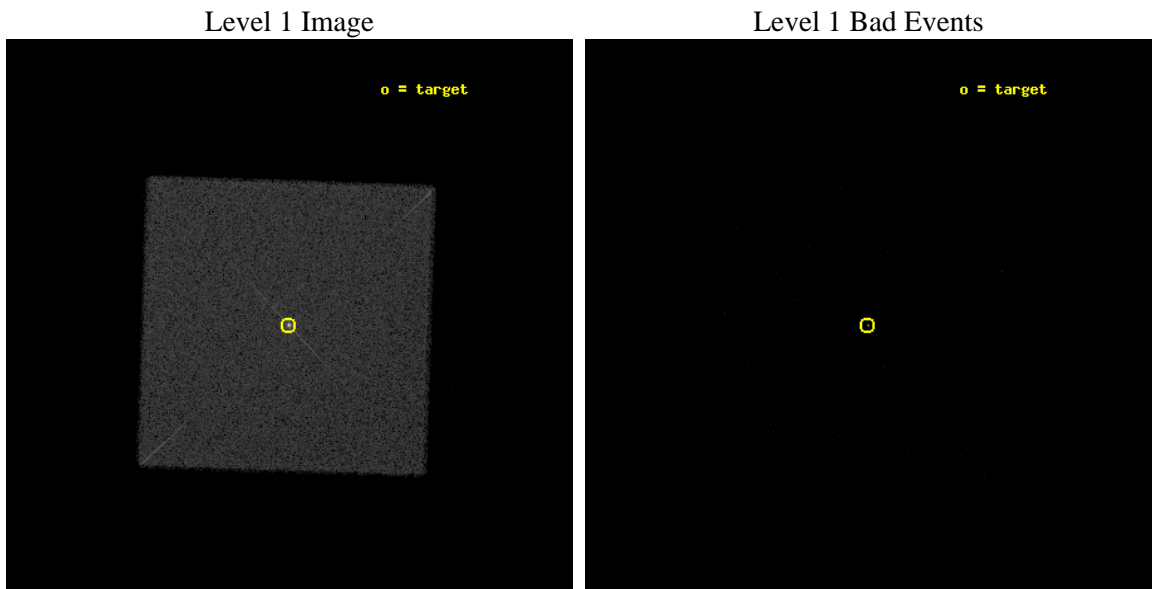
| | | |
|-----------|--|---------------------------------------|
| seq_num | 290923 | Sequence number |
| obs_id | 11934 | Observation id |
| title | AO-11 Calibration Observations of HZ43 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | HZ43 | Source name |
| ra_targ | 199.092083 | Observer's specified target RA [deg] |
| dec_targ | 29.099 | Observer's specified target Dec [deg] |
| ra_nom | 199.09020278942 | Nominal RA [deg] |
| dec_nom | 29.102944892462 | Nominal Dec [deg] |
| roll_nom | 136.90553576876 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 2183.2501108646 | [s] |
| livedtime | 2158.0584042049 | Ontime multiplied by DTCOR |
| l2events | 166241 | 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 | 2183.2501108646 | [s] |
| caldbver | 4.5.0 | | l1events | 265346 | Number of level 1 events |
| date | 2012-06-27T18:12:19 | Date and time of file creation | | | |
| revision | 2 | Processing version of data | | | |

2.1.3 Events

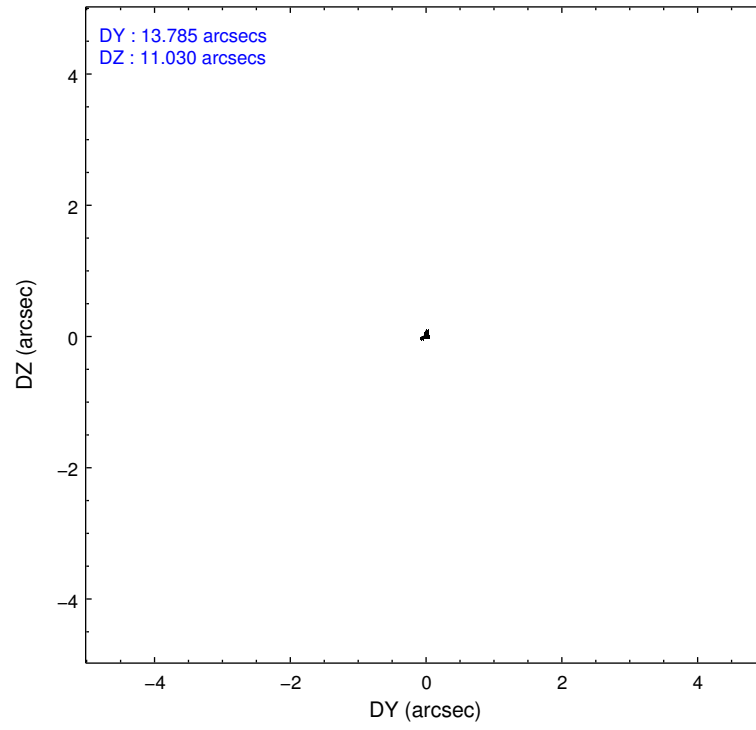
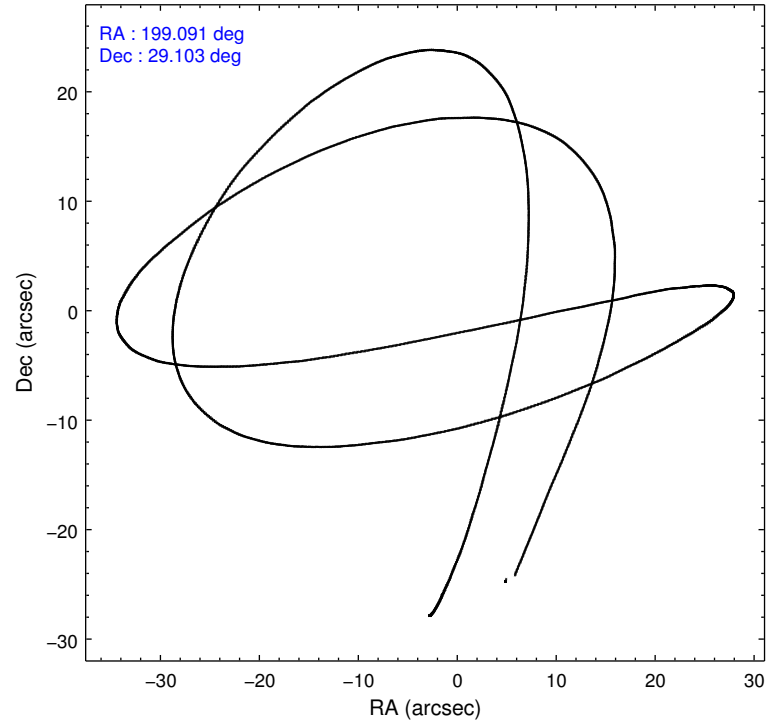
Level 1 Events

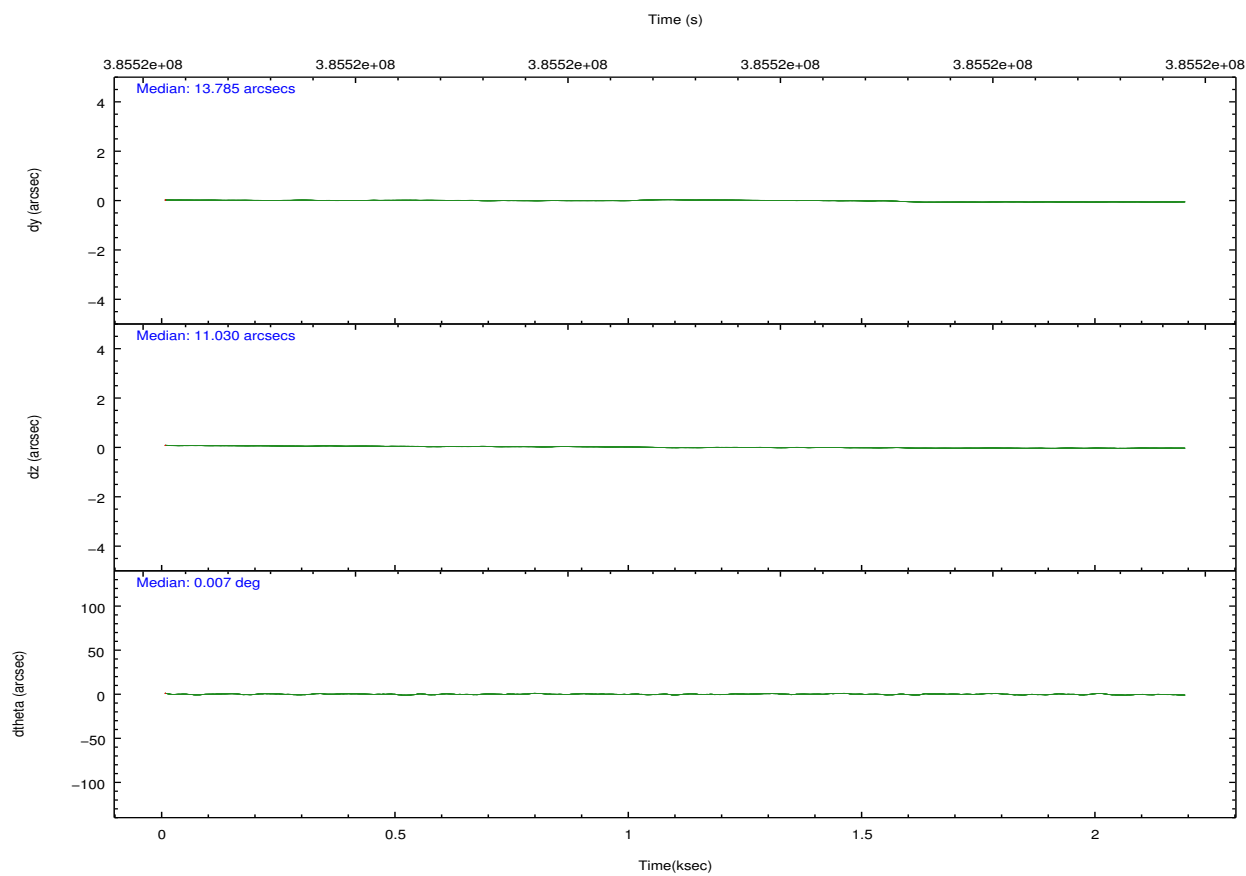
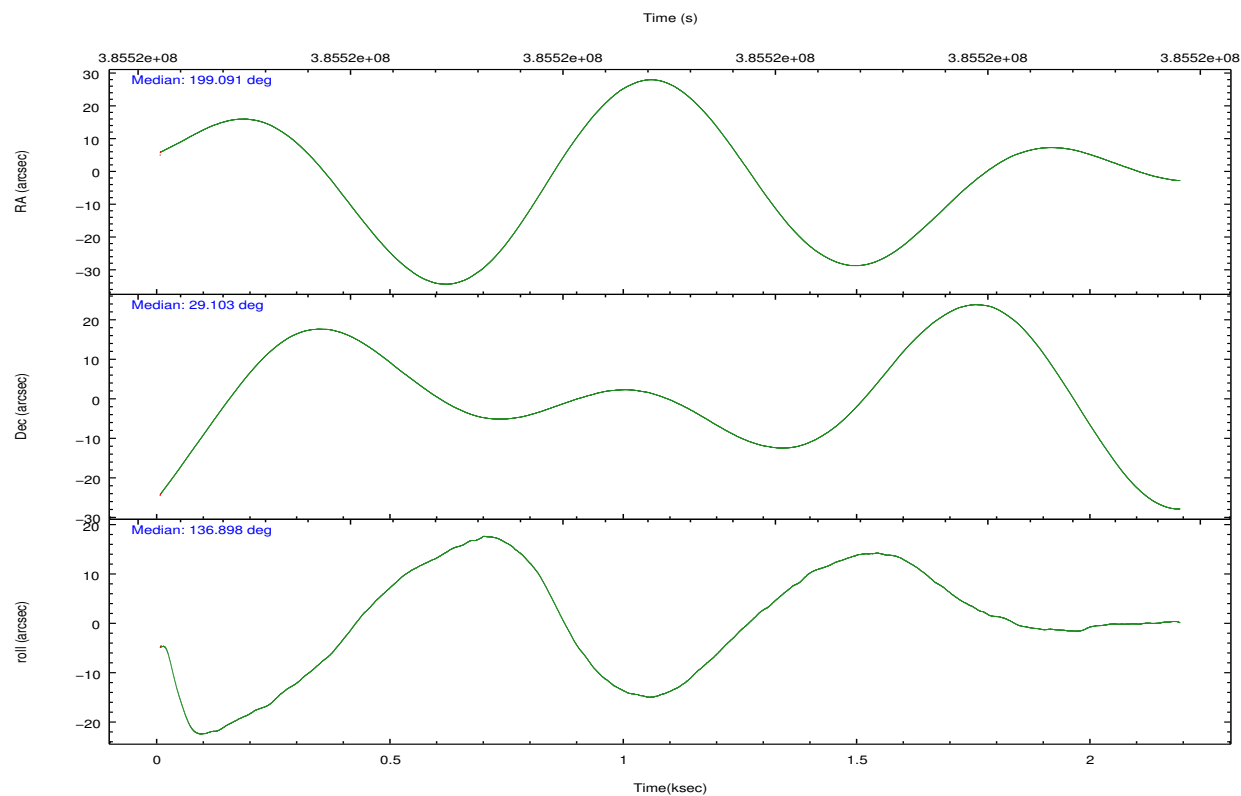
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 265346 |
| rejected events | 31085 |
| rejected % | 11% |

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 | 199.120493 | 199.0902027894239 | | | |
| [deg] Pointing Dec | 29.097269 | 29.10294489246223 | | | |
| [deg] Pointing Roll | 136.986192 | 136.9055357687563 | | | |
| [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) | 385515840.184000 | 385515119.61995 | | | |
| Observation start date | 2010-03-20T23:42:54 | 2010-03-20T23:31:59 | | | |
| [s] Observation end time (MET) | 385517840.184000 | 385518404.23261 | | | |
| Observation end date | 2010-03-21T00:16:14 | 2010-03-21T00:26:44 | | | |

2.3 Aspect



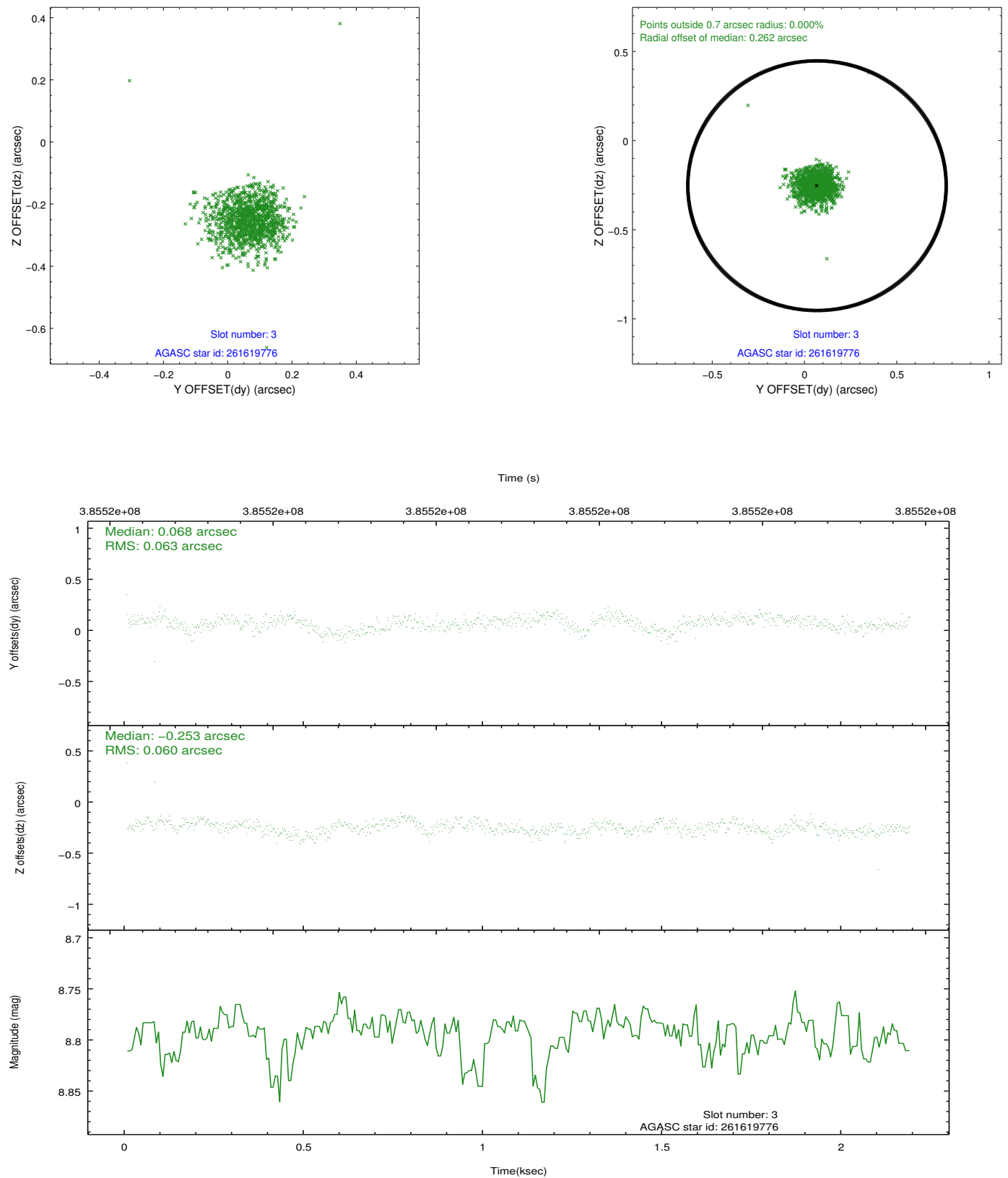


Slot Statistics

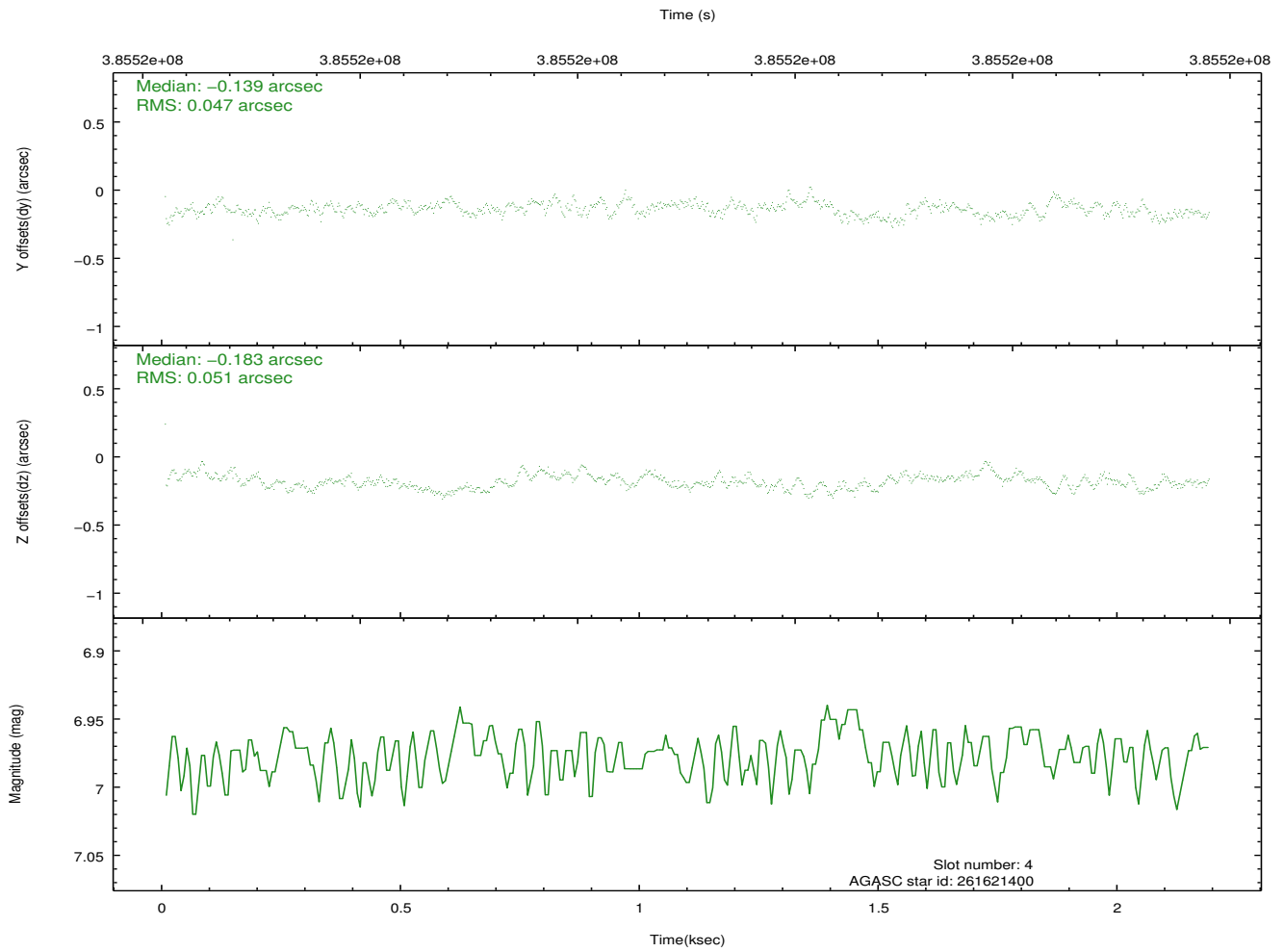
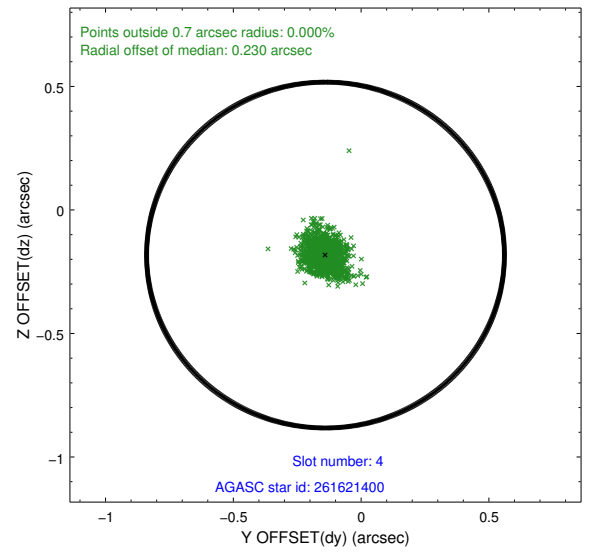
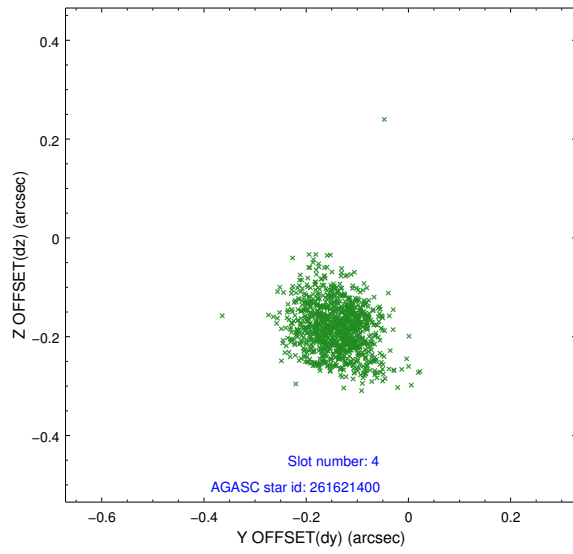
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.96 | 534 | -0.082 | -0.001 | 0.006 | 0.009 | 0.000000 | 0.000000 | -769.59 | -1299.03 |
| 1 | FID | HRC-I-2 | 7.00 | 534 | 0.230 | -0.114 | 0.005 | 0.009 | 0.000000 | 0.000000 | 841.91 | -1303.11 |
| 2 | FID | HRC-I-3 | 7.06 | 533 | -0.029 | 0.026 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1196.50 | 1003.11 |
| 3 | GUIDE | 261619776 | 8.79 | 1067 | 0.068 | -0.253 | 0.088 | 0.138 | 198.654383 | 29.401174 | 1816.98 | 195.93 |
| 4 | GUIDE | 261621400 | 6.98 | 1067 | -0.139 | -0.183 | 0.072 | 0.119 | 198.901600 | 28.741982 | -364.81 | 1407.08 |
| 5 | GUIDE | 261623040 | 9.14 | 1062 | -0.158 | 0.141 | 0.116 | 0.206 | 198.792686 | 29.757643 | 2371.91 | -1037.84 |
| 6 | GUIDE | 261626376 | 9.68 | 1062 | 0.120 | 0.088 | 0.163 | 0.277 | 198.947288 | 29.347445 | 1015.27 | -287.77 |
| 7 | GUIDE | 261629720 | 8.12 | 1066 | 0.119 | 0.212 | 0.074 | 0.123 | 199.236176 | 29.044452 | -394.34 | -108.71 |

2.4 Star Slots

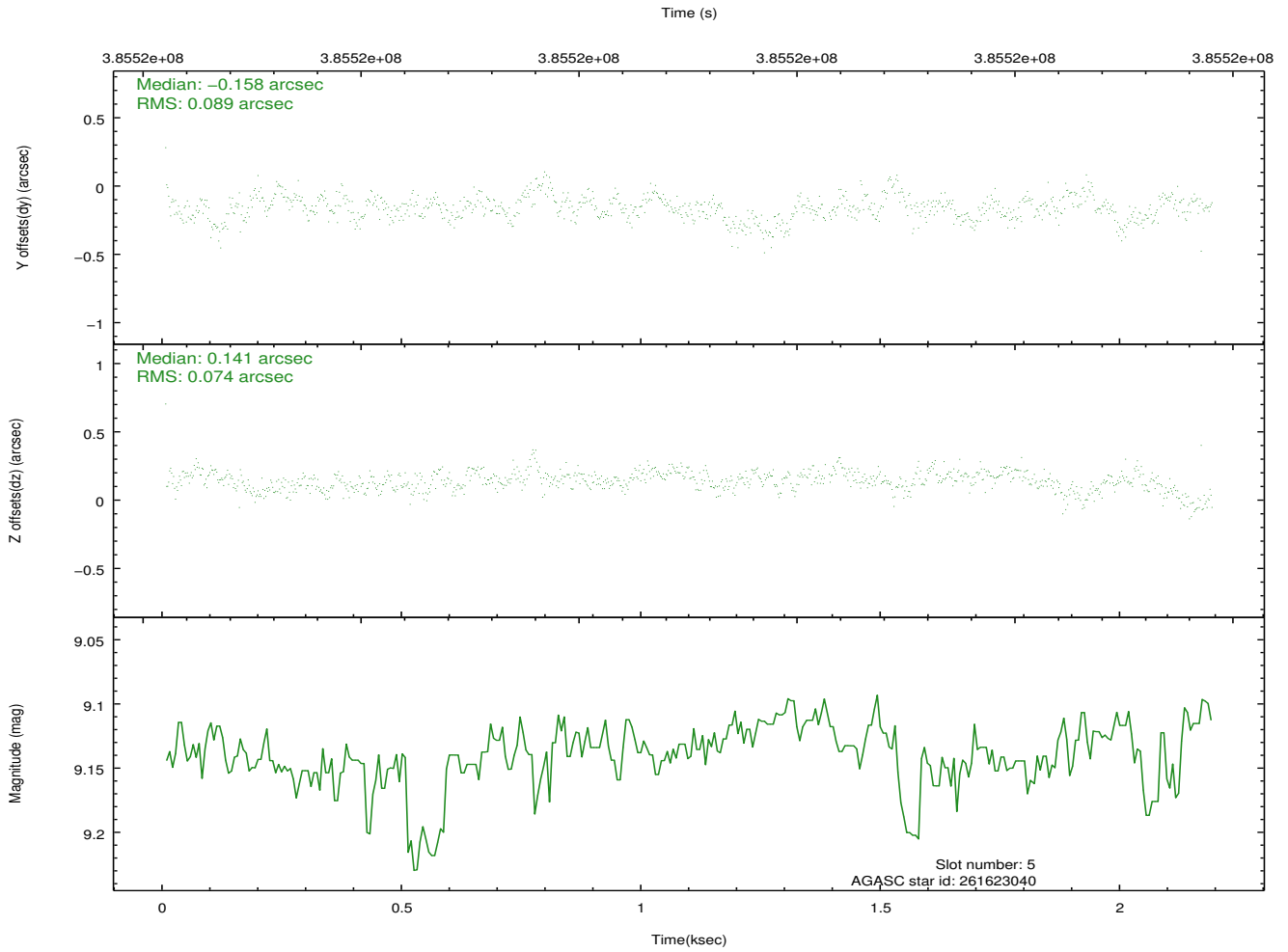
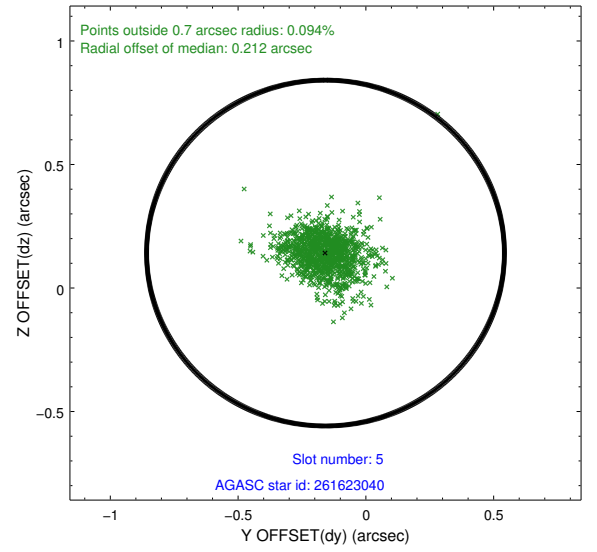
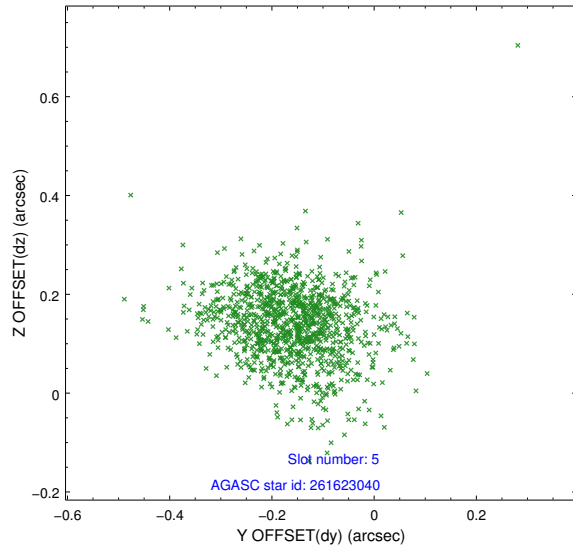
2.4.1 Slot 3



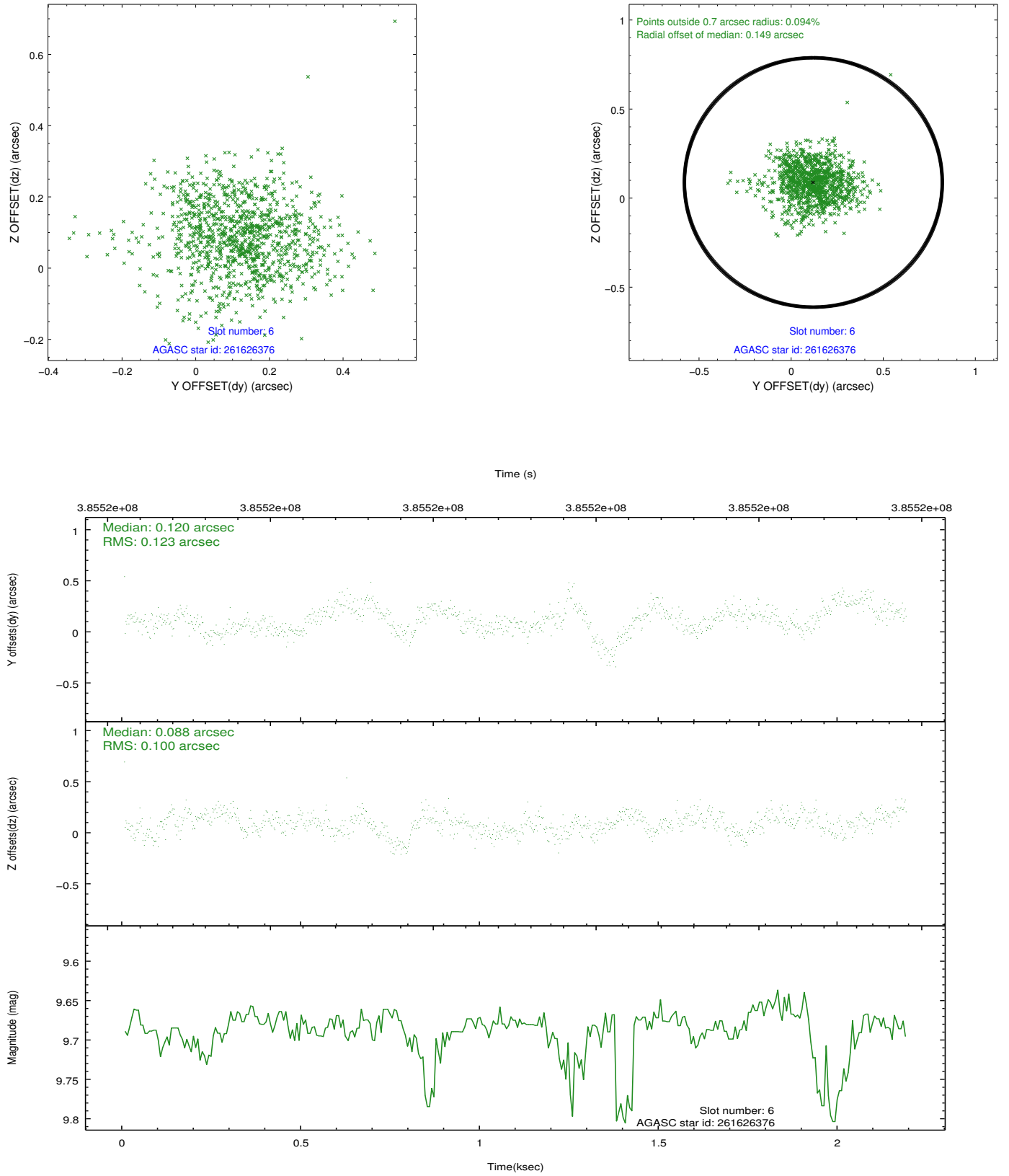
2.4.2 Slot 4



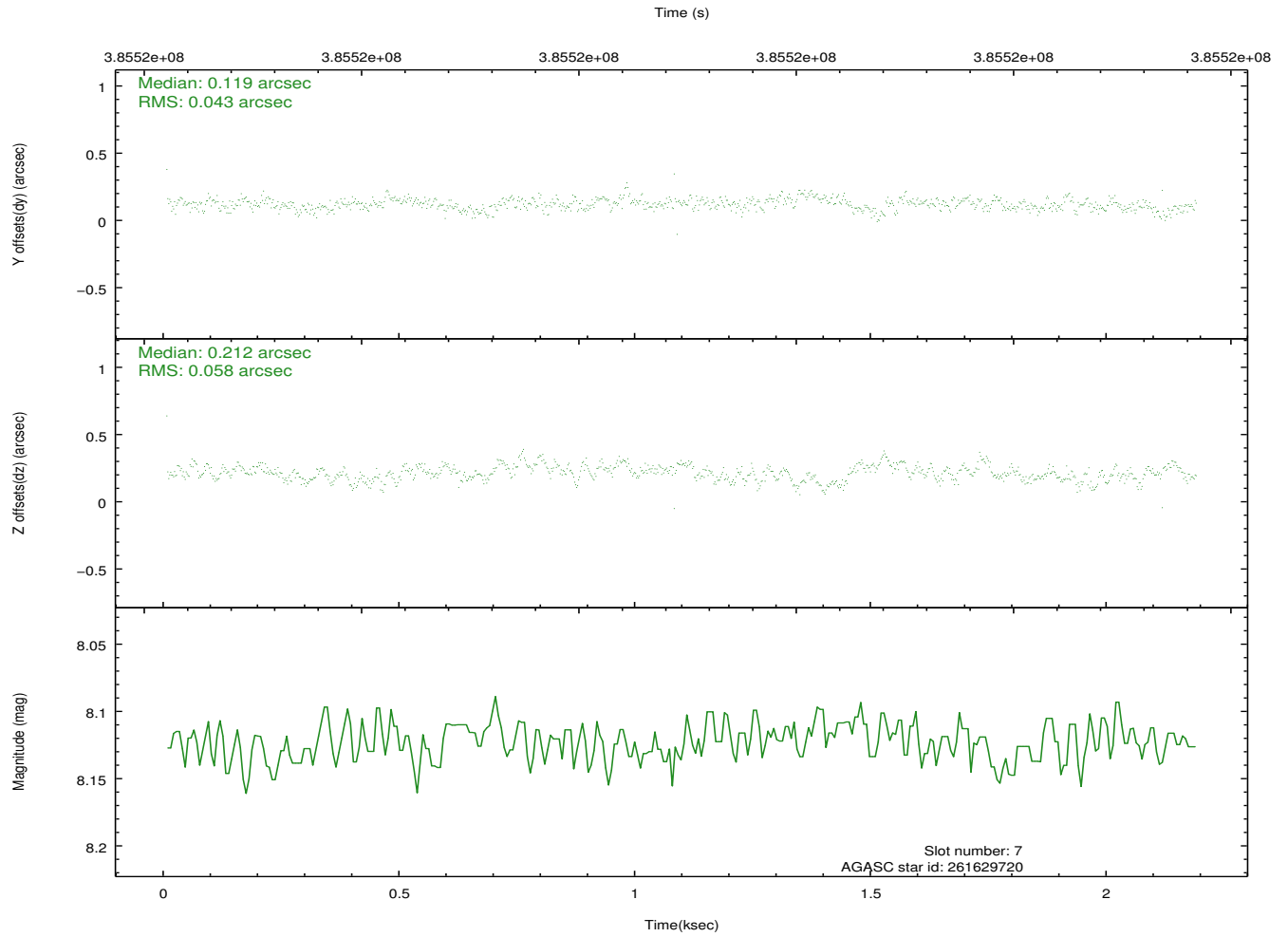
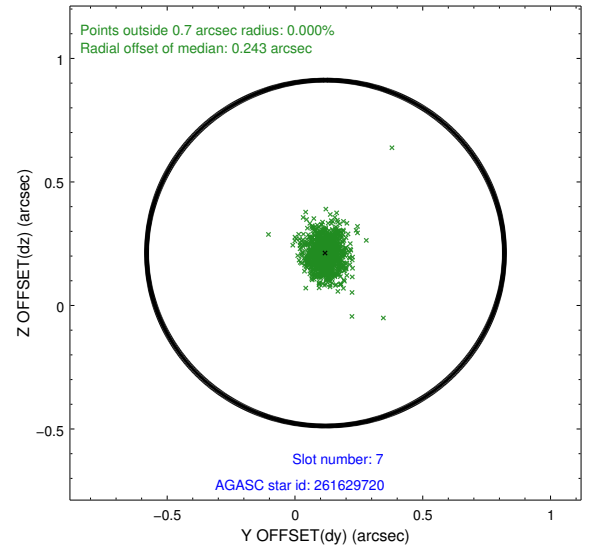
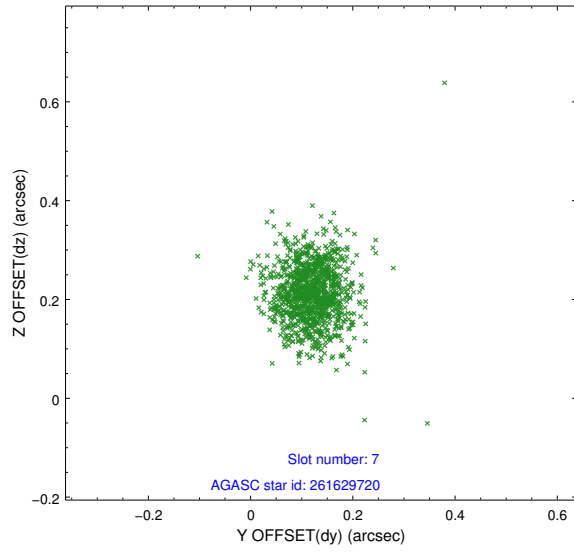
2.4.3 Slot 5



2.4.4 Slot 6

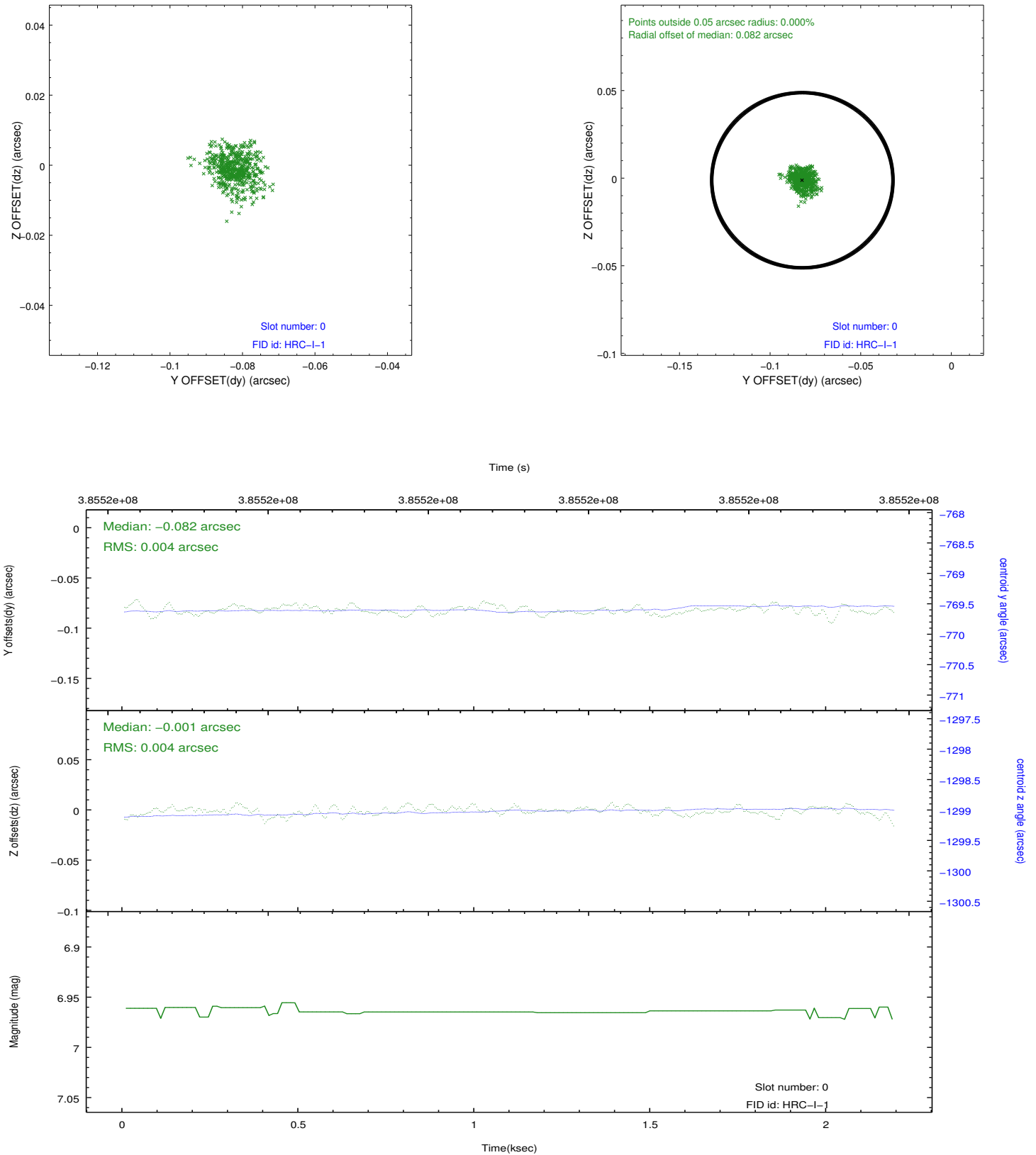


2.4.5 Slot 7

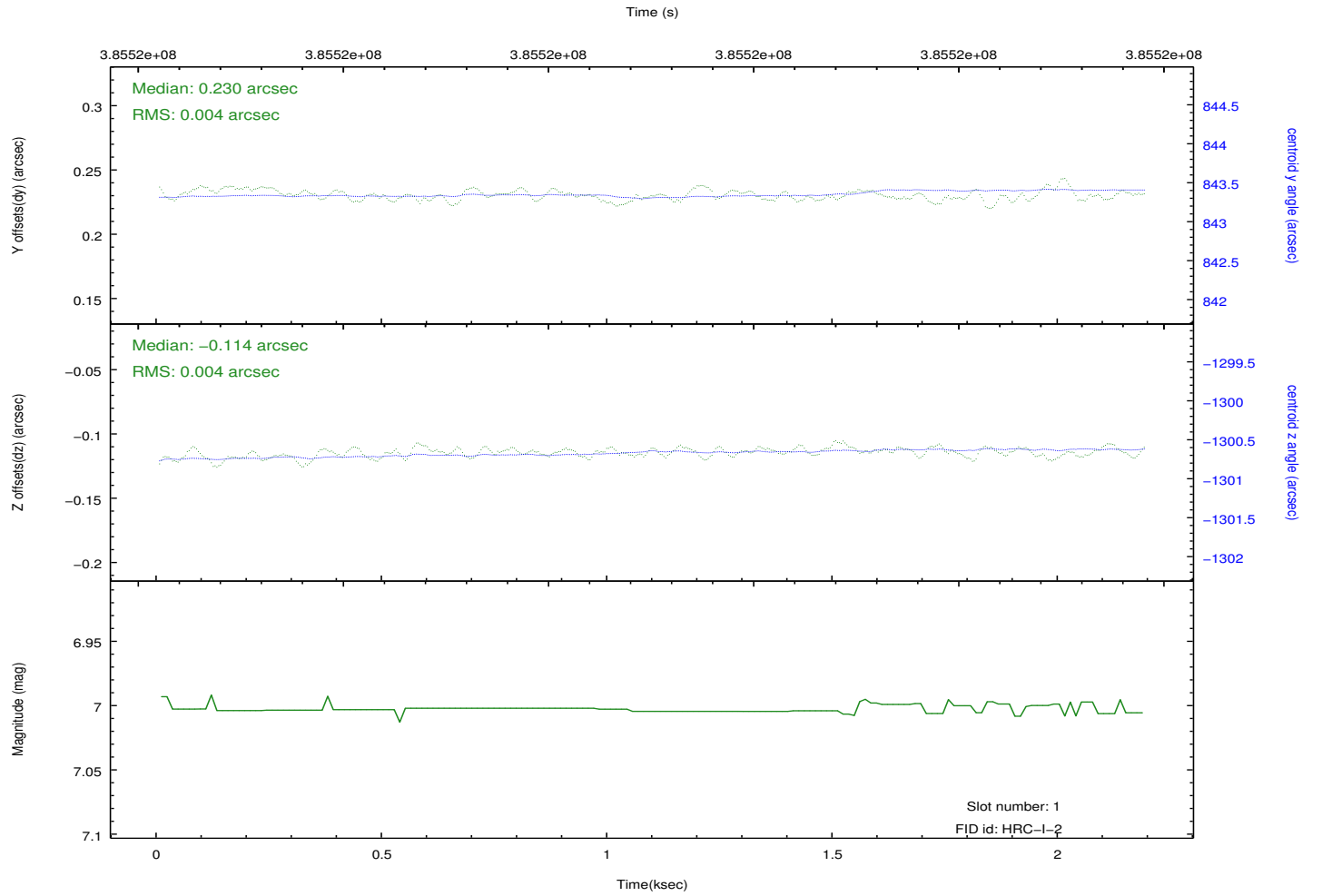
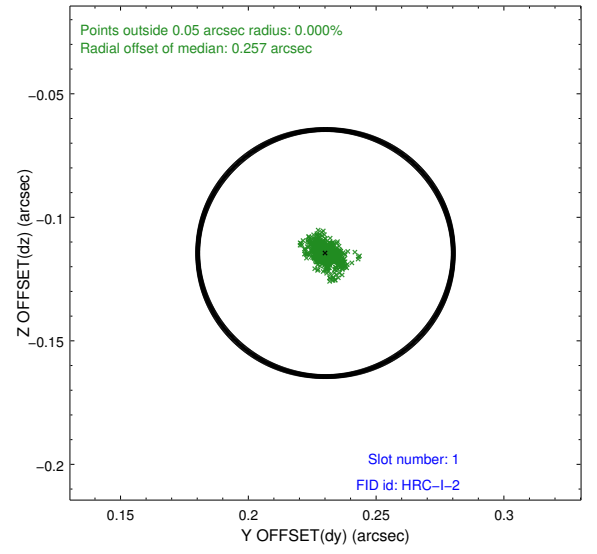
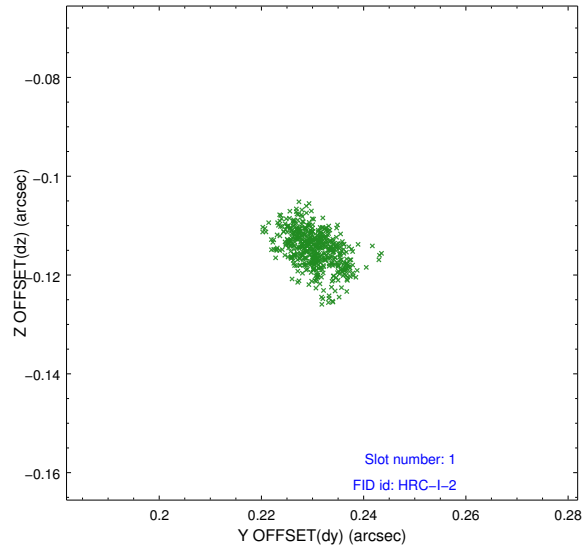


2.5 FID Slots

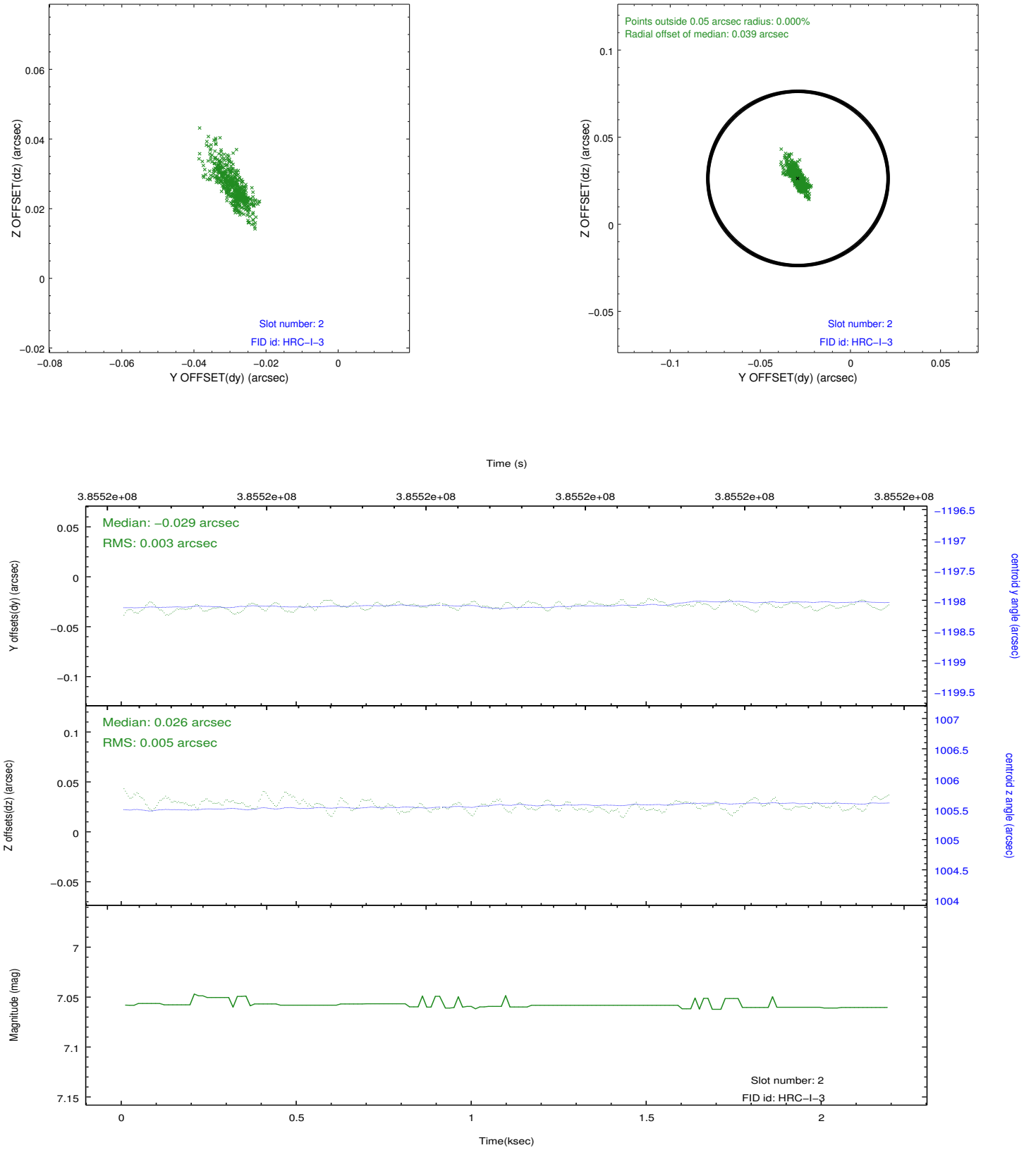
2.5.1 Slot 0



2.5.2 Slot 1

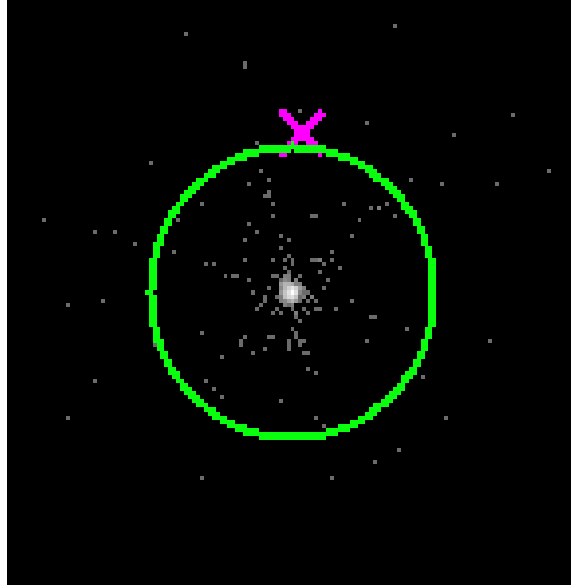


2.5.3 Slot 2

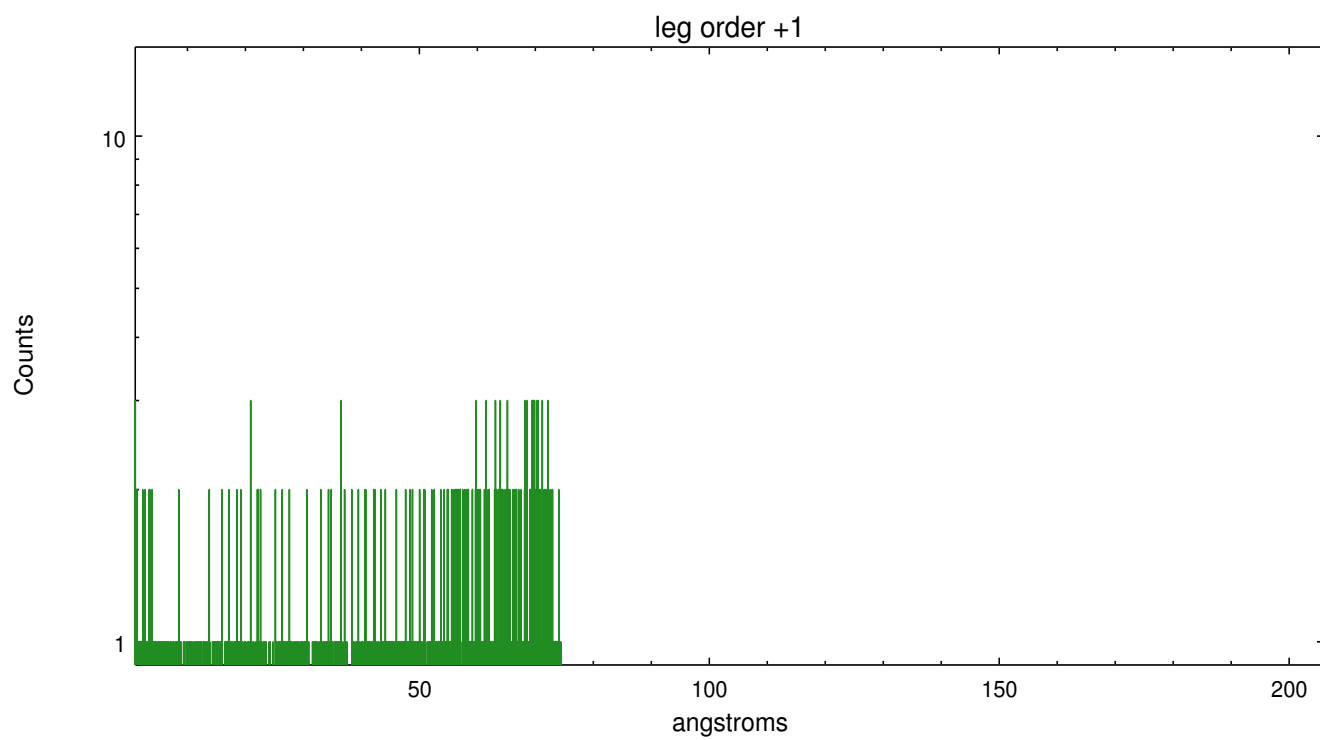
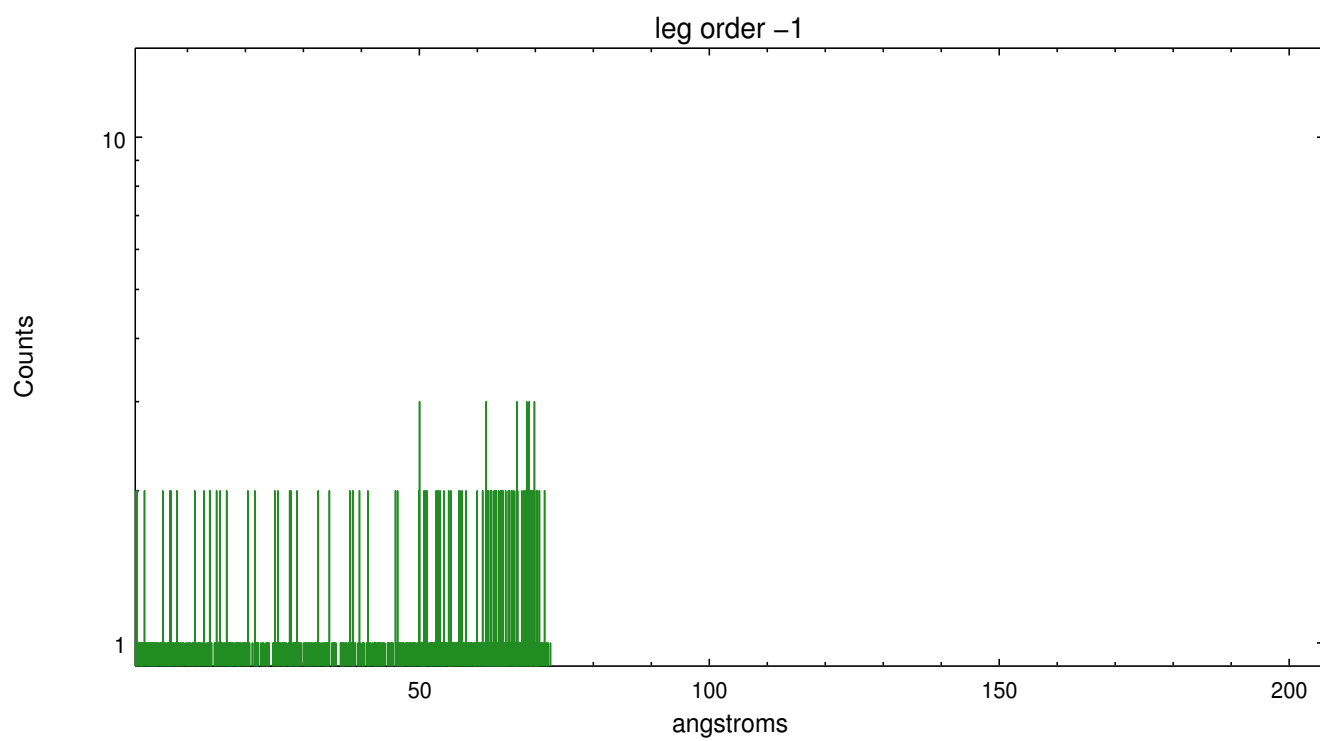


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.07.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.1832501107454 |

A.2 Comments

Note: non-standard configuration of LETG with HRC-I, and may not be generally supported by CIAO grating routines or standard extraction parameters. Spectrum has some residual tilt.