

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 5174 - L2 Version 7
Chandra X-Ray Center

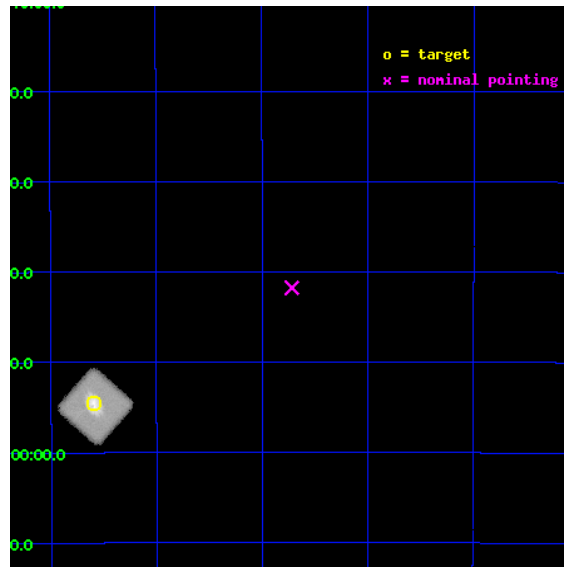
L2 Processing Date : Dec 11 2012

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1 Front

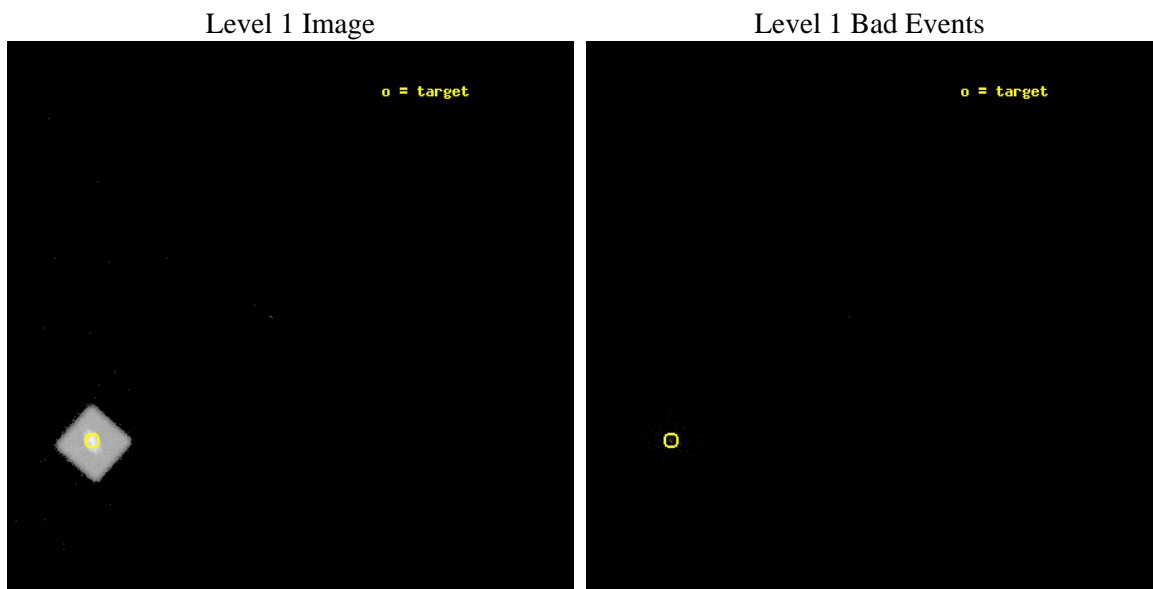
| | | |
|----------|--|---------------------------------------|
| seq_num | 990002 | Sequence number |
| obs_id | 5174 | Observation id |
| title | AO5 Calibration Observations of the ACIS charged particle background | |
| observer | Dr. CXC Calibration | Principal investigator |
| object | RXJ1856.5-3754 | Source name |
| ra_targ | 284.147083 | Observer's specified target RA [deg] |
| dec_targ | -37.909611 | Observer's specified target Dec [deg] |
| ra_nom | 283.67917999739 | Nominal RA [deg] |
| dec_nom | -37.696419398288 | Nominal Dec [deg] |
| roll_nom | 266.7289187939 | Nominal Roll [deg] |
| revision | 7 | Processing version of data |
| ontime | 48839.202192426 | [s] |
| livetime | 41755.657587652 | Ontime multiplied by DTCOR |
| l2events | 106126 | 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 | 49000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.5 | Processing system revision | ontime | 48904.80219242 | [s] |
| caldsver | 4.5.4 | | l1events | 128379 | Number of level 1 events |
| date | 2012-12-11T14:17:50 | Date and time of file creation | | | |
| revision | 7 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 128379 |
| rejected events | 529 |
| rejected % | 0% |

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 | OVERRIDE | OVERRIDE |
| Data mode | NEXT_IN_LINE | NEXT_IN_LINE | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 283.679181896524 | 283.6791799973905 | | | |
| [deg] Pointing Dec | -37.696391548025 | -37.69641939828826 | | | |
| [deg] Pointing Roll | 266.7289199498699 | 266.7289187938968 | | | |
| [s] Window start time (MET) | 210384064.184000 | 210384064.184000 | | | |
| [s] Window stop time (MET) | 218160064.184000 | 218160064.184000 | | | |
| [mm] SIM focus pos | -1.038866356238299 | -1.038866356238299 | | | |
| [mm] SIM defocus | 0.00142623211714632 | 0.00142623211714632 | | | |
| [mm] SIM translation stage pos | 51.9960404362608 | 51.9960404362608 | | | |
| [mm] SIM translation stage offset | 74.989453869027 | 74.989453869027 | | | |
| [s] Observation start time (MET) | 215959001.184 | 215959001.184 | | | |
| Observation start date | 2004-11-04T12:38:06 | 2004-11-04T12:36:41 | | | |
| [s] Observation end time (MET) | 216008150.184 | 216008150.184 | | | |
| Observation end date | 2004-11-05T02:14:46 | 2004-11-05T02:15:50 | | | |

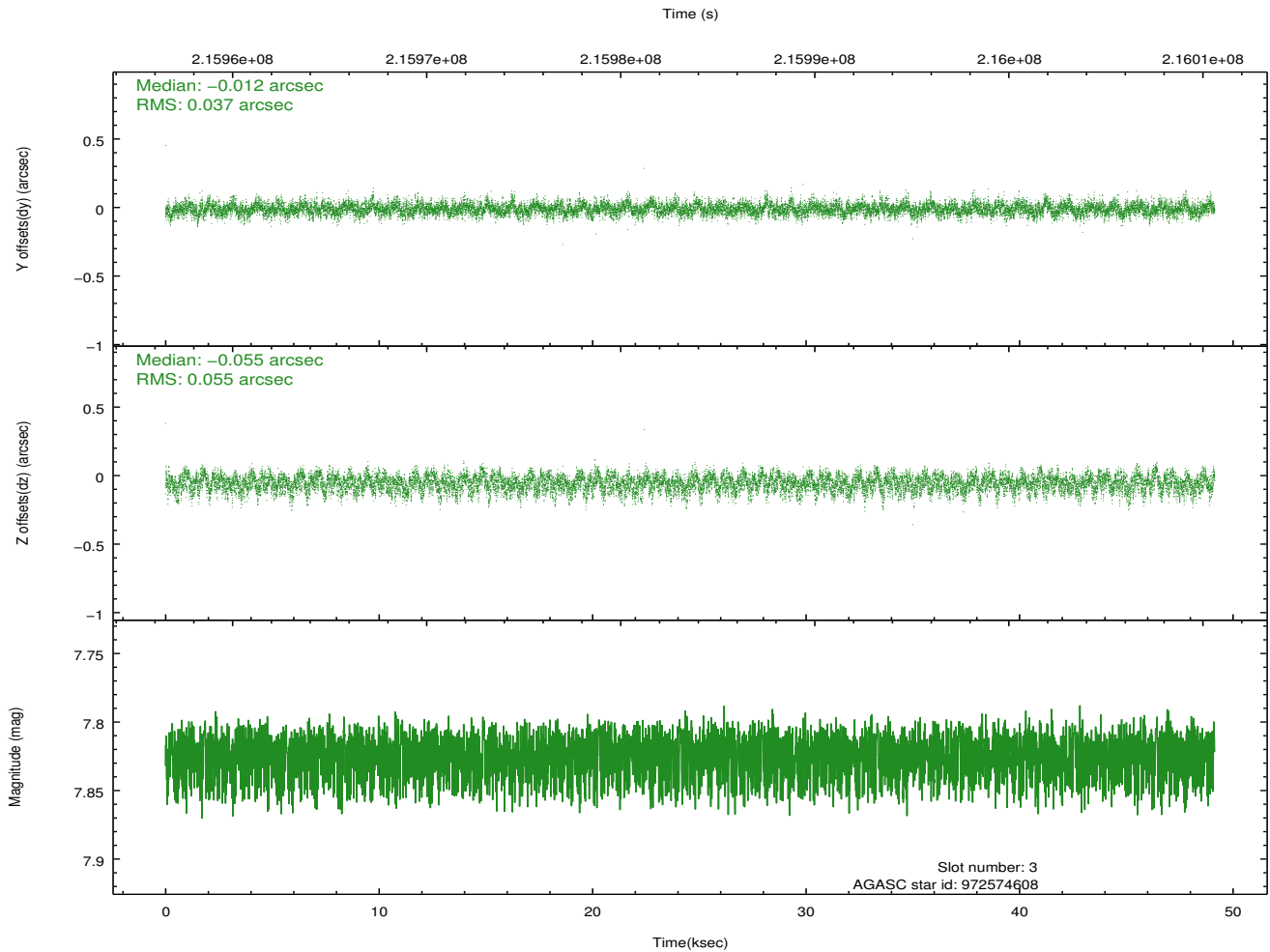
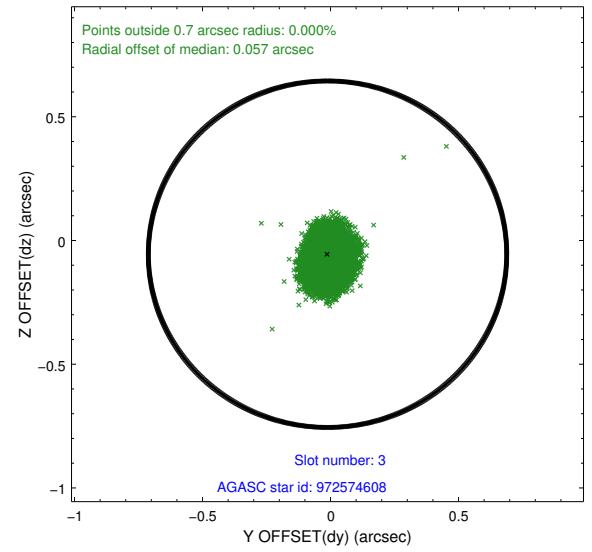
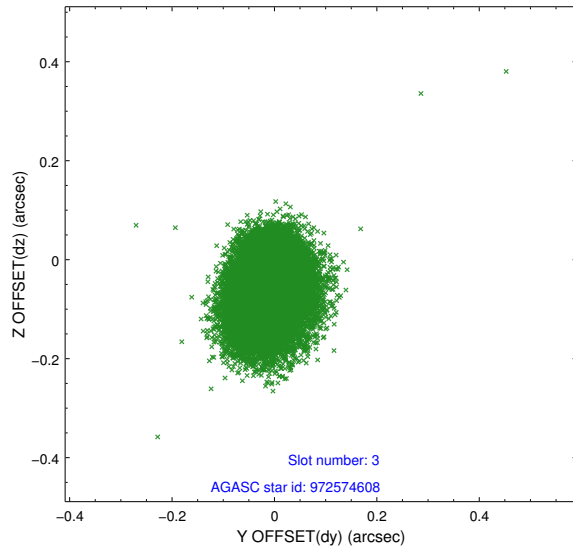
2.3 Aspect

Slot Statistics

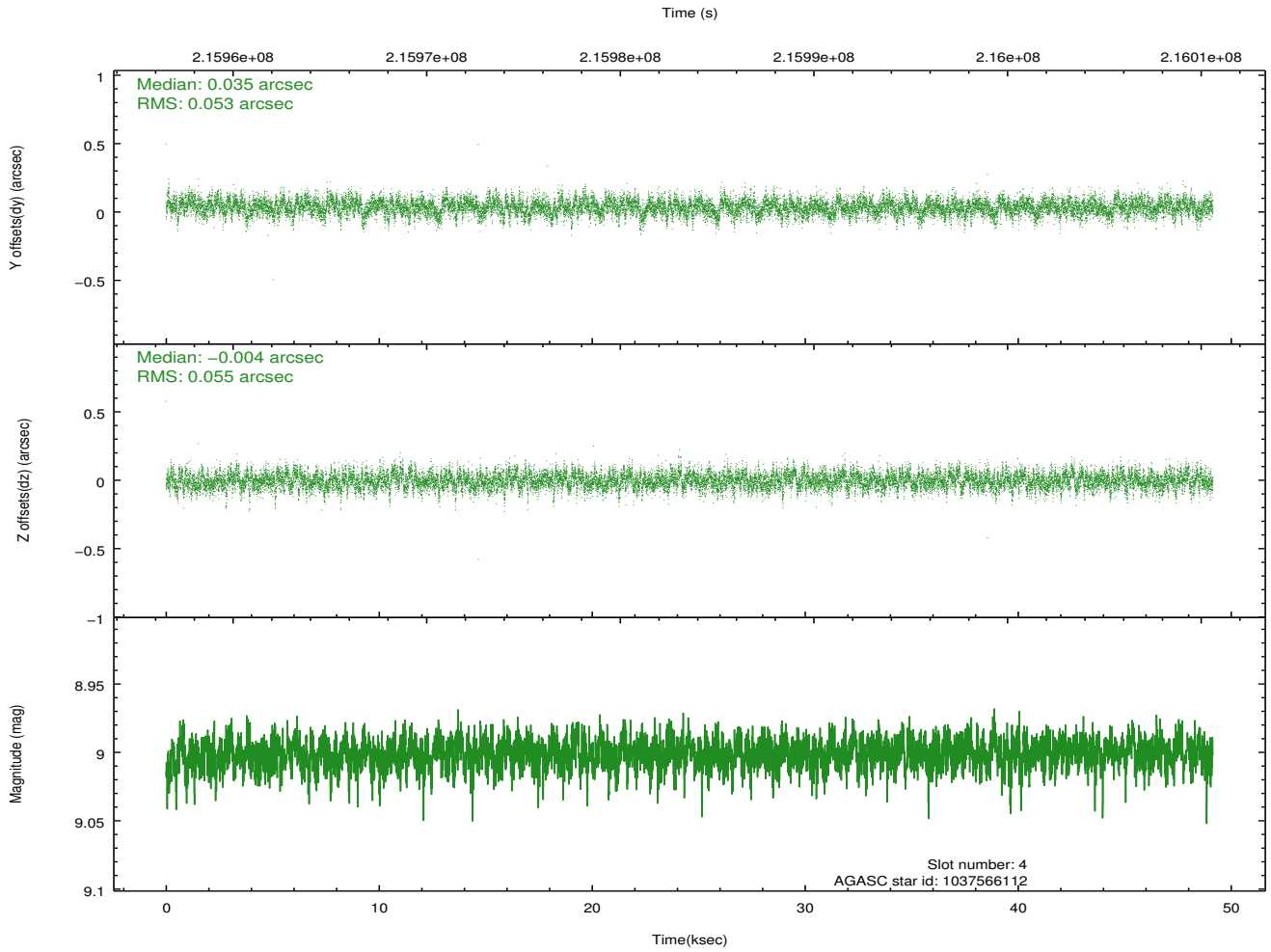
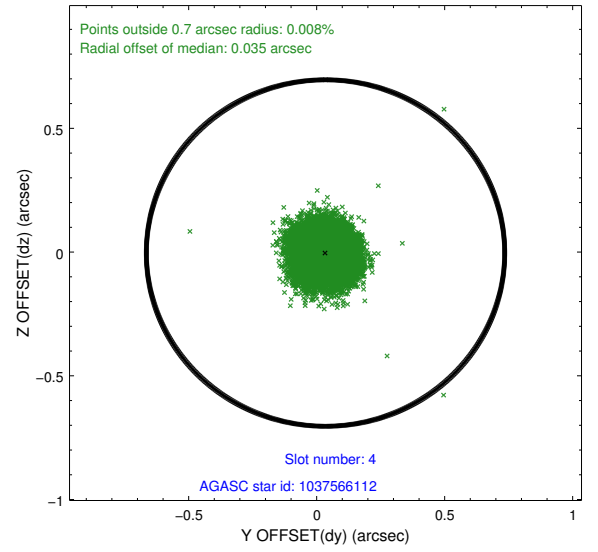
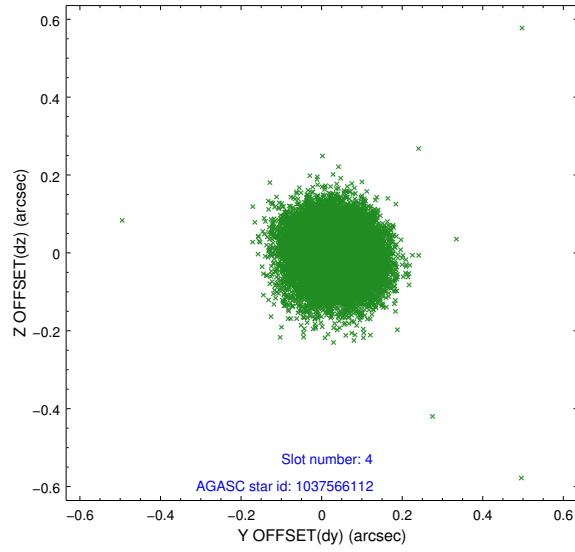
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | HRC-I-1 | 6.89 | 11988 | -0.612 | -0.028 | 0.005 | 0.011 | 0.000000 | 0.000000 | -763.86 | 239.06 |
| 1 | FID | HRC-I-2 | 7.01 | 11983 | 0.691 | -0.026 | 0.005 | 0.011 | 0.000000 | 0.000000 | 846.93 | 240.14 |
| 2 | UNUSED | | 0.00 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000000 | 0.000000 | 0.00 | 0.00 |
| 3 | GUIDE | 972574608 | 7.83 | 23974 | -0.012 | -0.055 | 0.070 | 0.116 | 283.352847 | -37.274388 | -1379.58 | -966.91 |
| 4 | GUIDE | 1037566112 | 9.00 | 23965 | 0.035 | -0.004 | 0.080 | 0.132 | 283.021431 | -38.146262 | 1810.71 | -1718.61 |
| 5 | GUIDE | 1037567312 | 8.47 | 23969 | 0.031 | 0.038 | 0.060 | 0.098 | 283.456056 | -37.976515 | 1126.73 | -525.61 |
| 6 | GUIDE | 1037569296 | 9.46 | 23955 | 0.096 | 0.067 | 0.106 | 0.175 | 284.013208 | -38.111113 | 1524.11 | 1078.13 |
| 7 | GUIDE | 972564920 | 9.66 | 23930 | -0.149 | -0.043 | 0.125 | 0.209 | 283.044679 | -36.997275 | -2321.98 | -1910.09 |

2.4 Star Slots

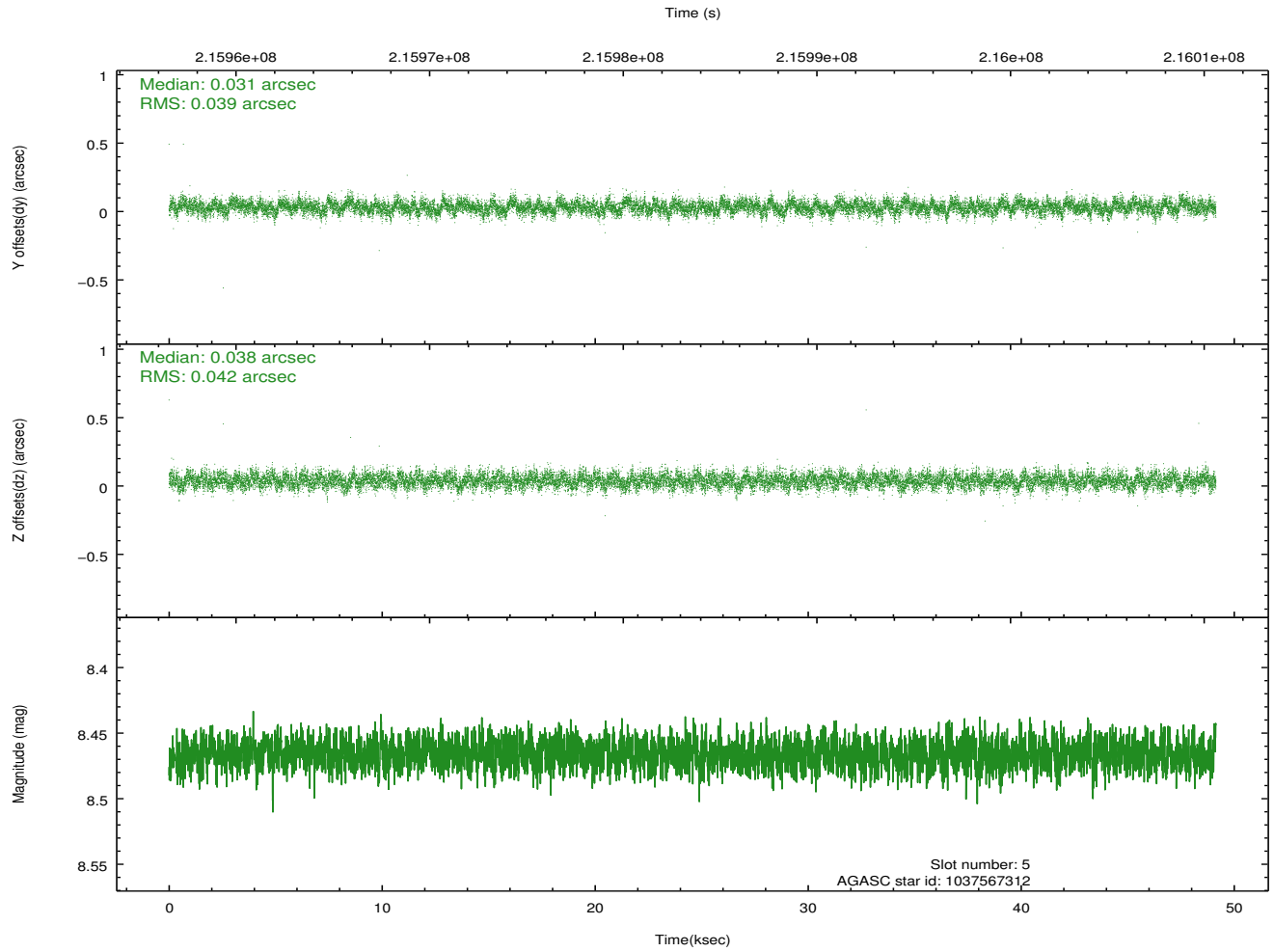
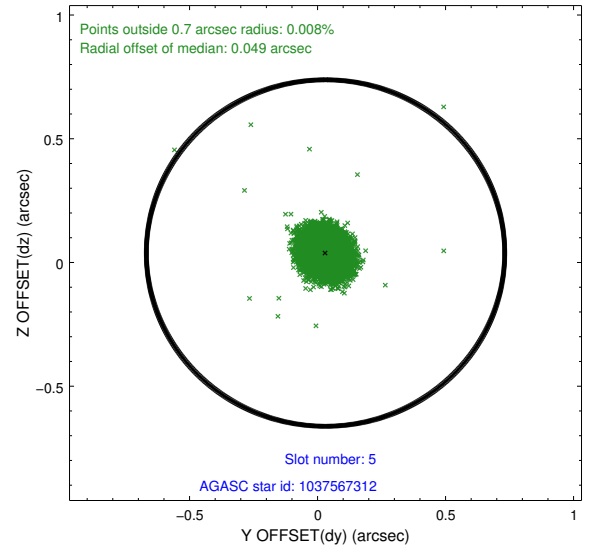
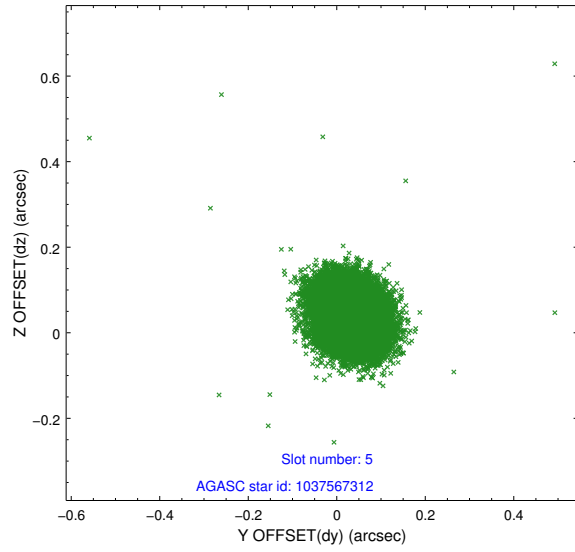
2.4.1 Slot 3



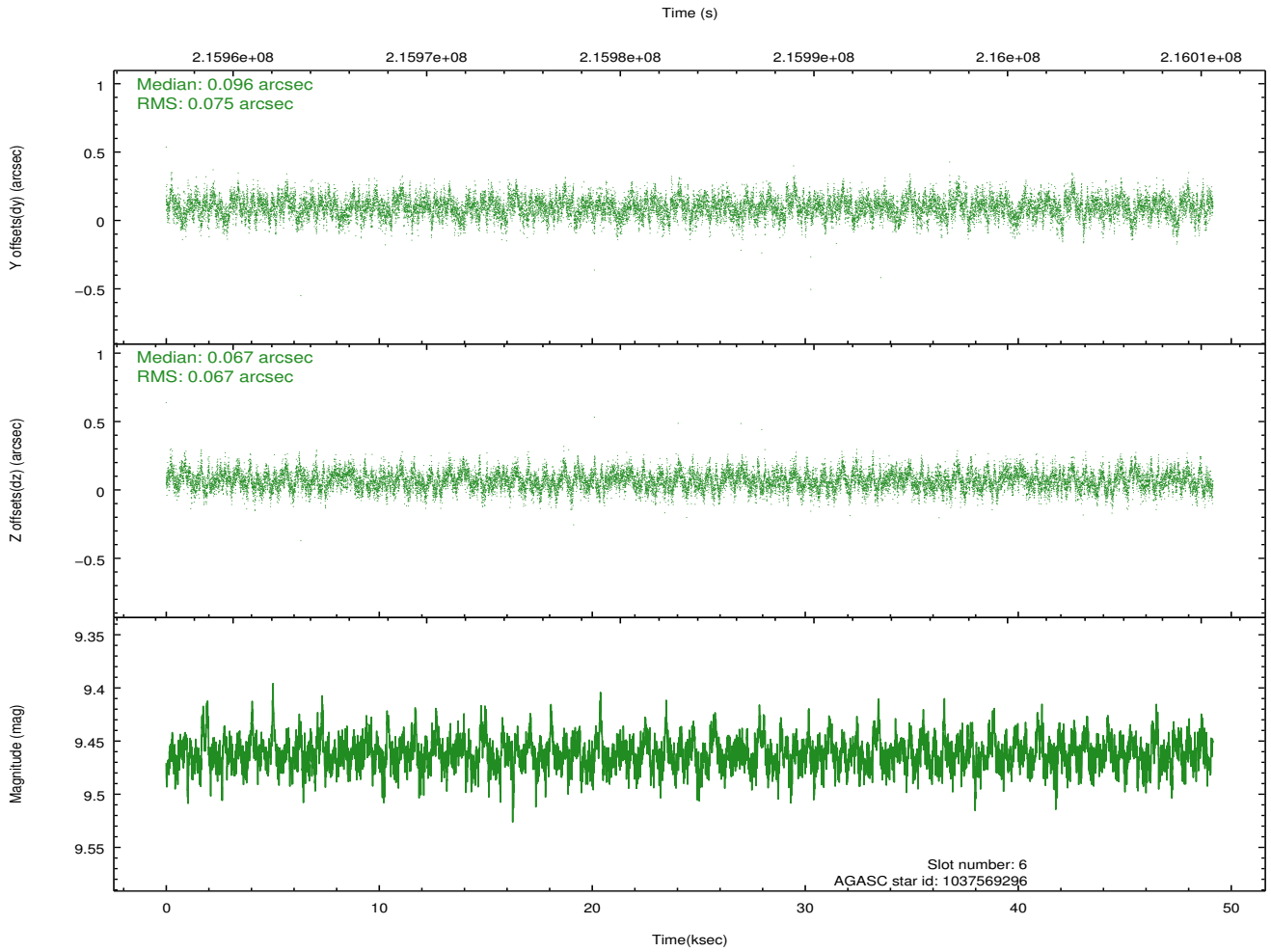
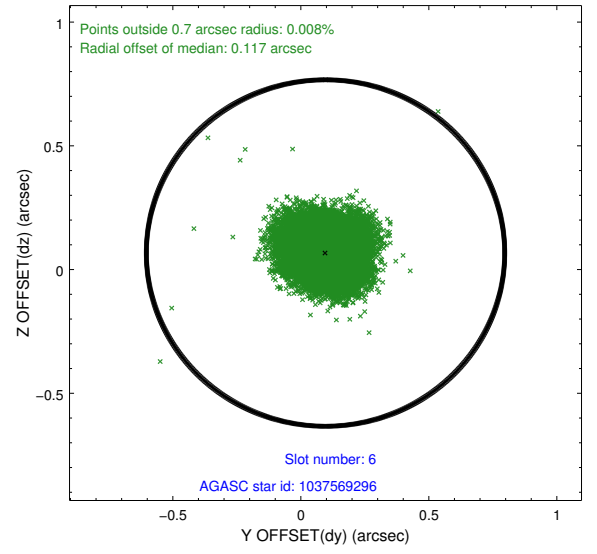
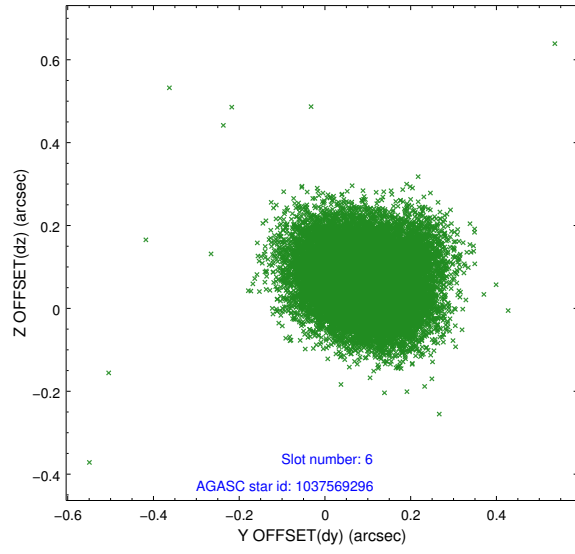
2.4.2 Slot 4



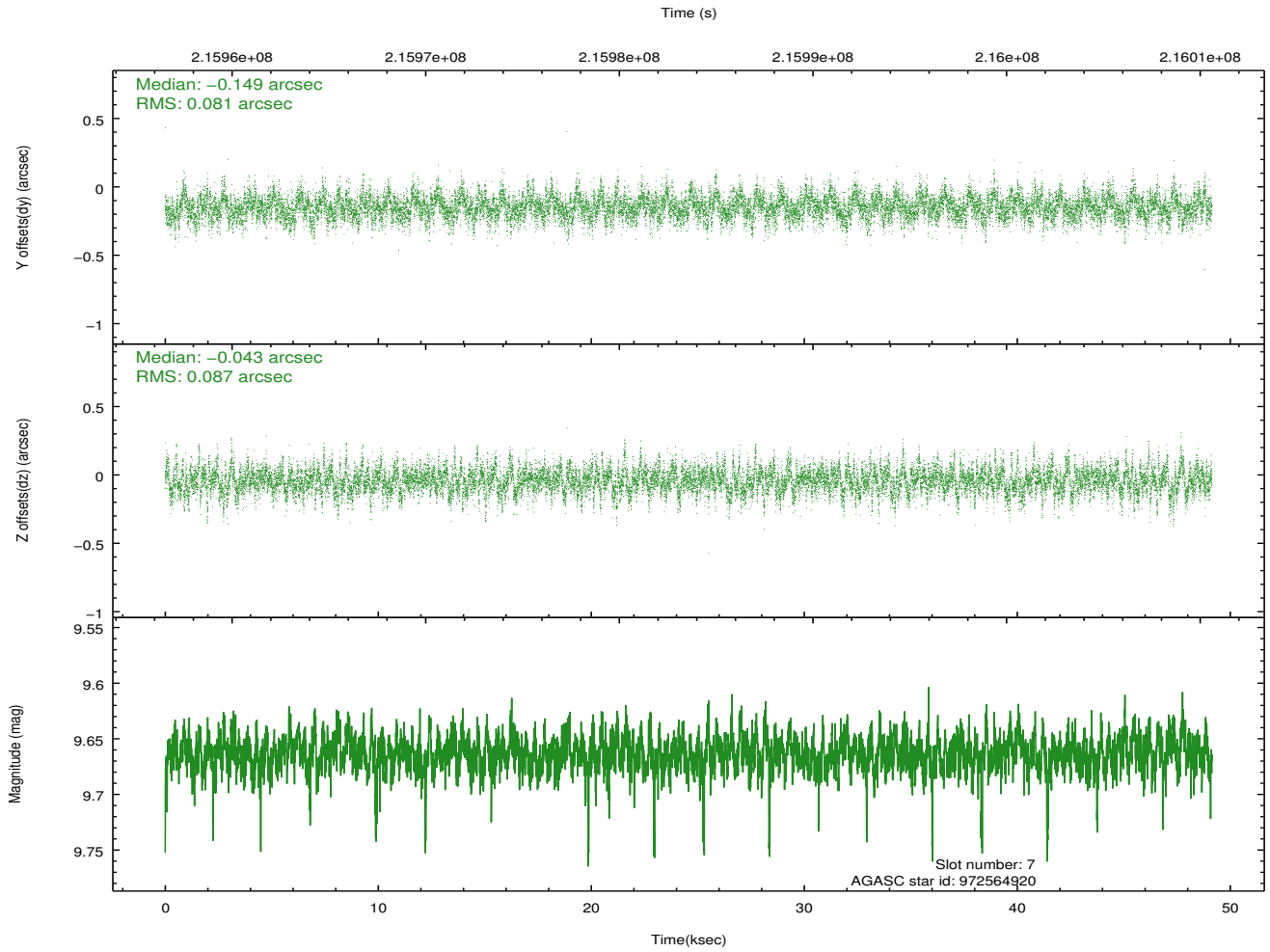
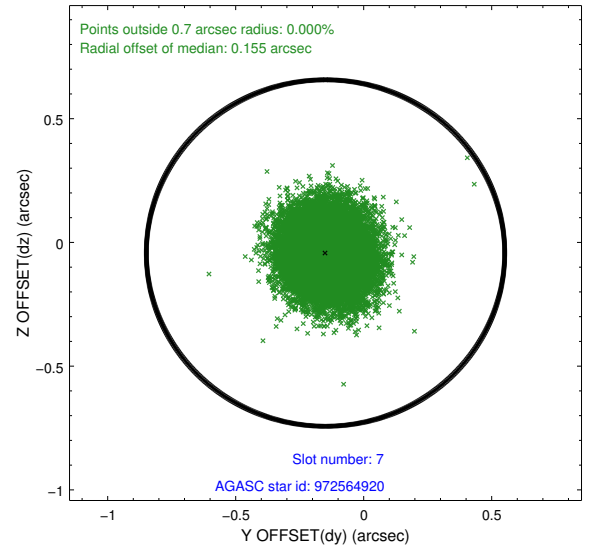
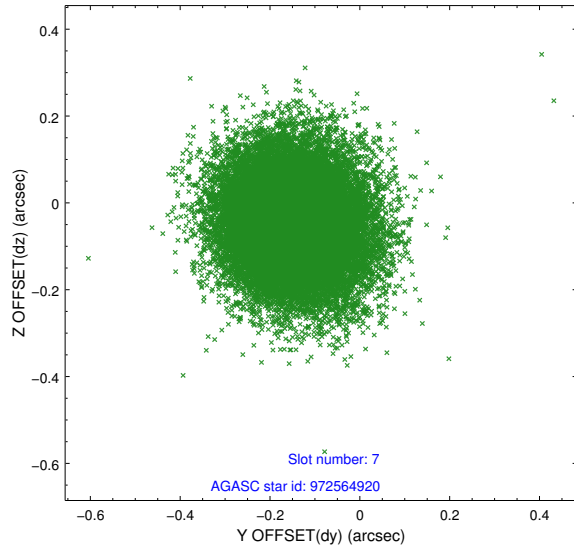
2.4.3 Slot 5



2.4.4 Slot 6

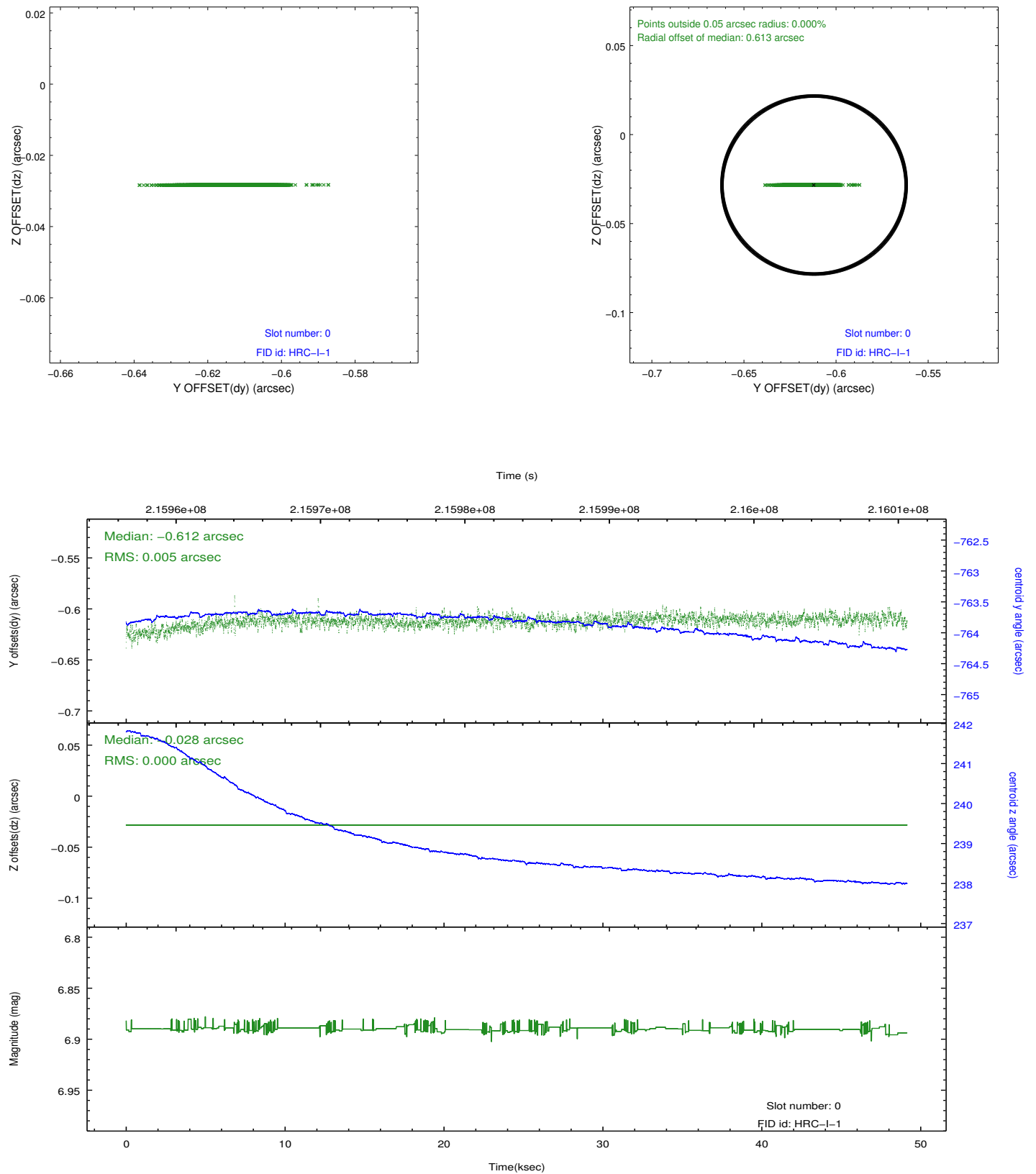


2.4.5 Slot 7

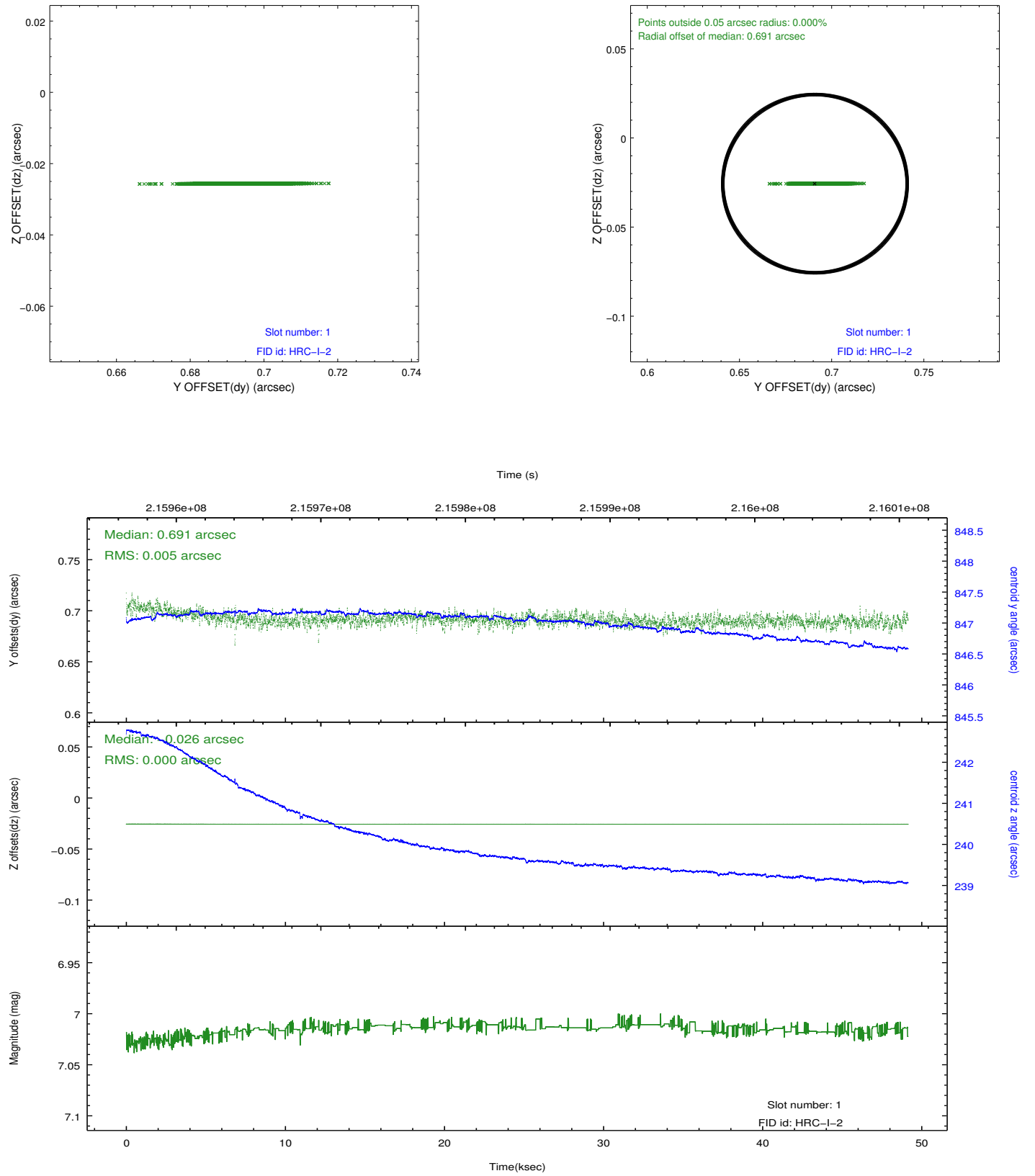


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2013.01.23 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 48.839 |

A.2 Comments

For the `sim_z_offset` of 74.98mm, the fid radial median offsets of 0.613

arcsec (slot 0) and 0.691 arcsec (slot 1) are OK for aspect.