

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6470 - L2 Version 3
Chandra X-Ray Center

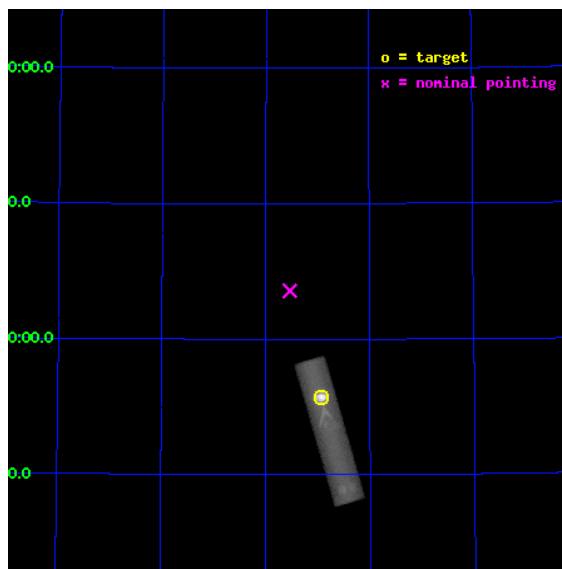
L2 Processing Date : Aug 11 2012

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1 Front

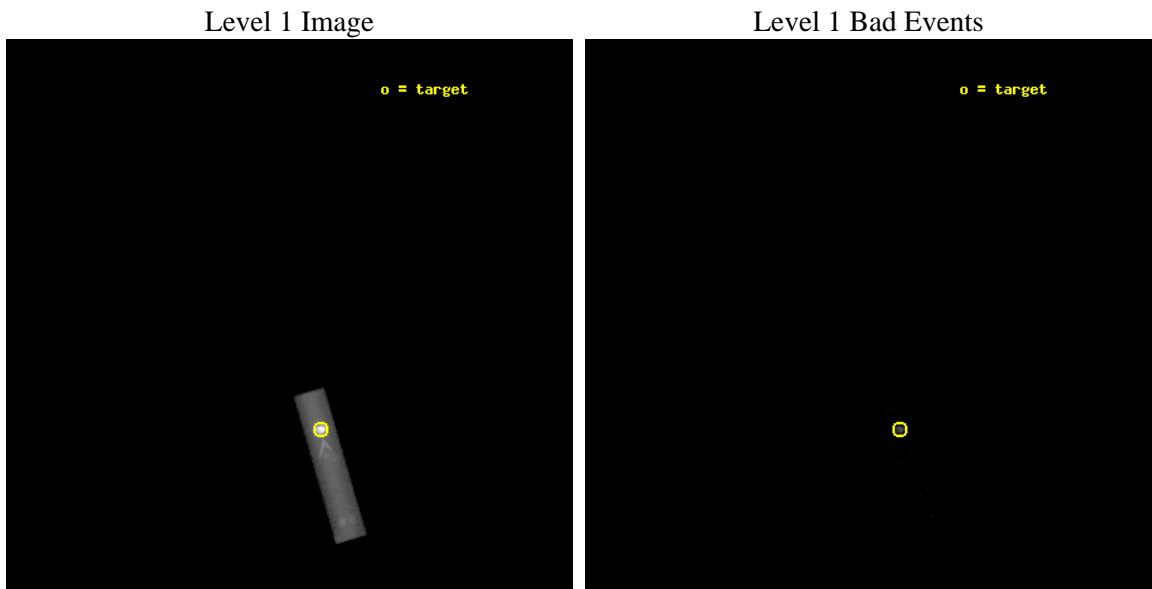
| | | |
|----------|--|---------------------------------------|
| seq_num | 290563 | Sequence number |
| obs_id | 6470 | Observation id |
| title | AO7 Measurements of the optical/UV Transmission of the HRC and ACIS Filters. | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | Vega | Source name |
| ra_targ | 279.235 | Observer's specified target RA [deg] |
| dec_targ | 38.783778 | Observer's specified target Dec [deg] |
| ra_nom | 279.3837888739 | Nominal RA [deg] |
| dec_nom | 39.178977647447 | Nominal Dec [deg] |
| roll_nom | 253.69659226958 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 2451.9282400608 | [s] |
| livetime | 723.32884062373 | Ontime multiplied by DTCOR |
| l2events | 433490 | 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 | 2000.867000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 2453.8501154184 | [s] |
| caldbver | 4.5.1.1 | | l1events | 485818 | Number of level 1 events |
| date | 2012-08-11T11:14:32 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

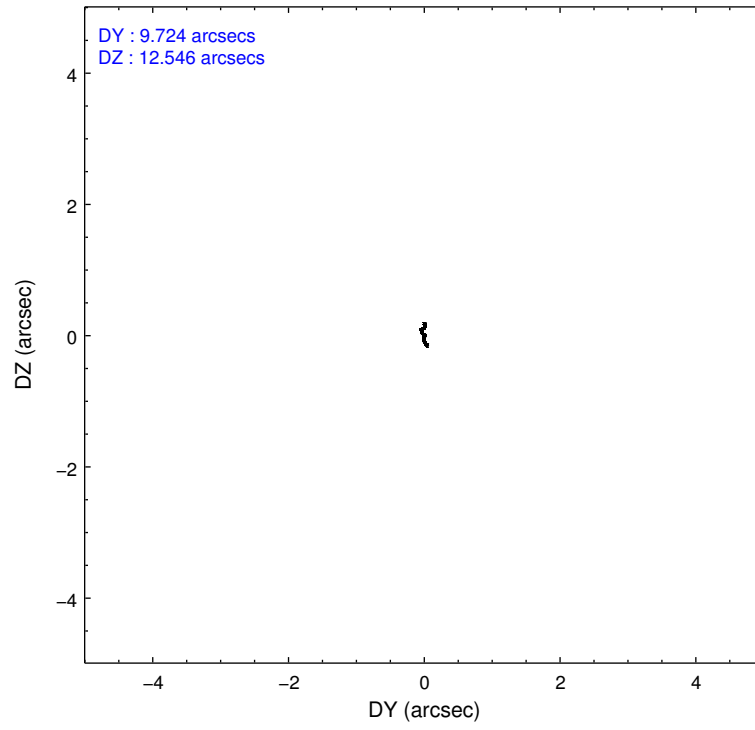
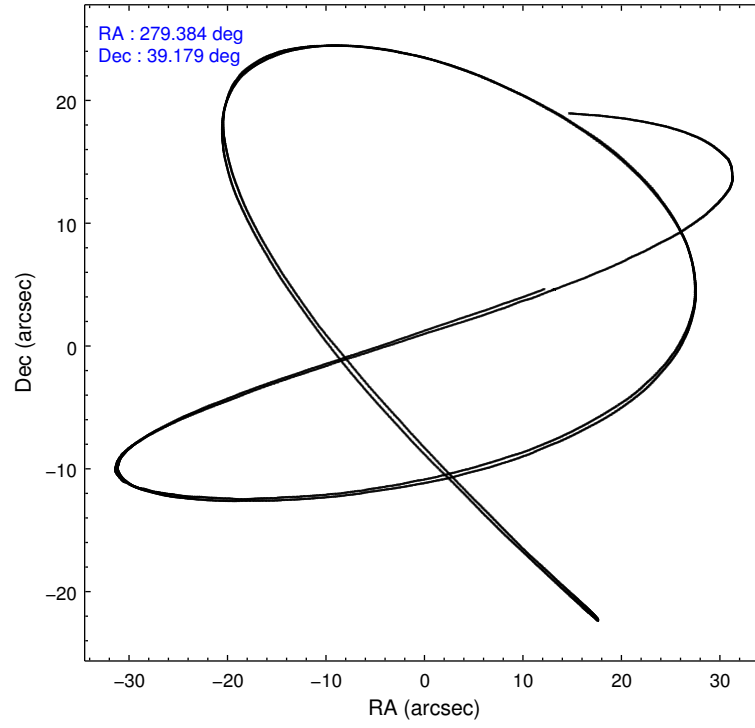
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 0 | 40 | 485778 |
| rejected events | 0 | 16 | 33690 |
| rejected % | 0% | 40% | 6% |

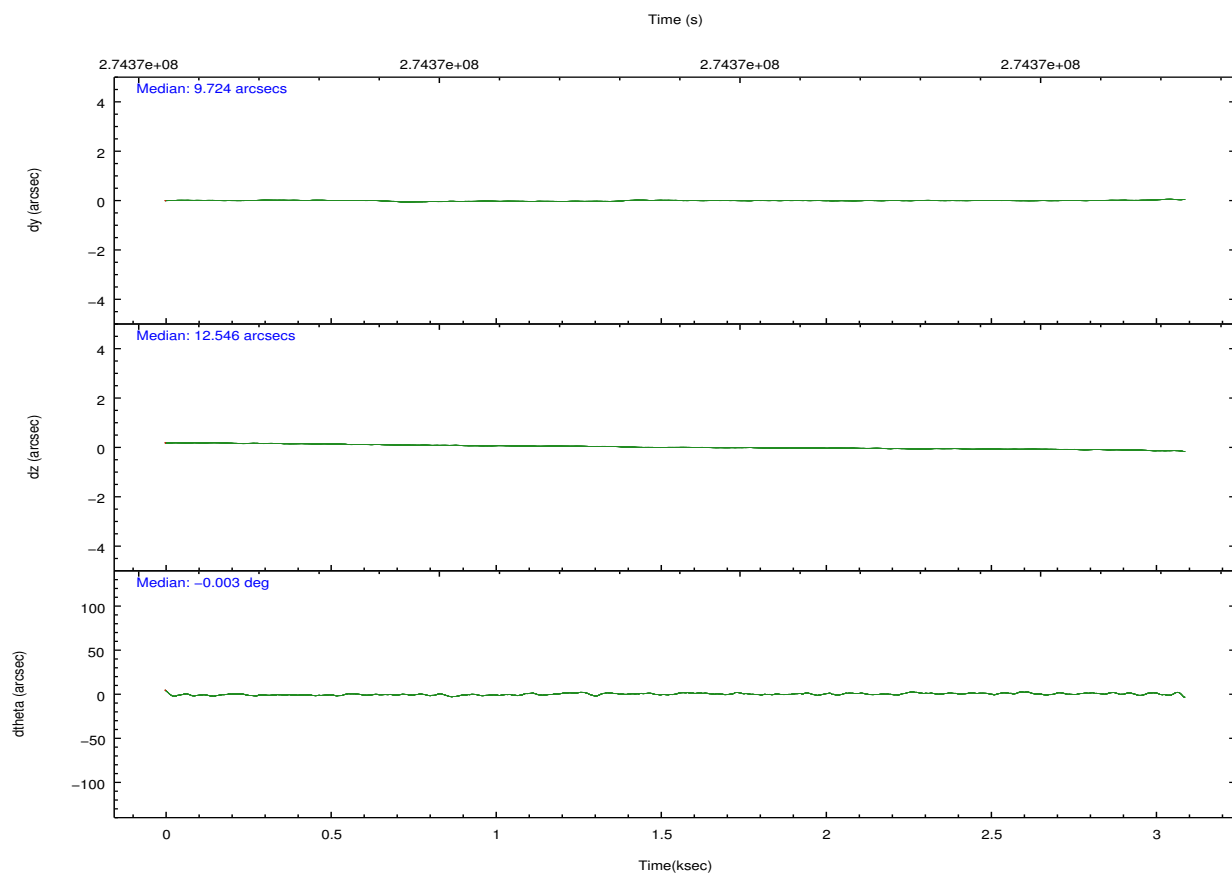
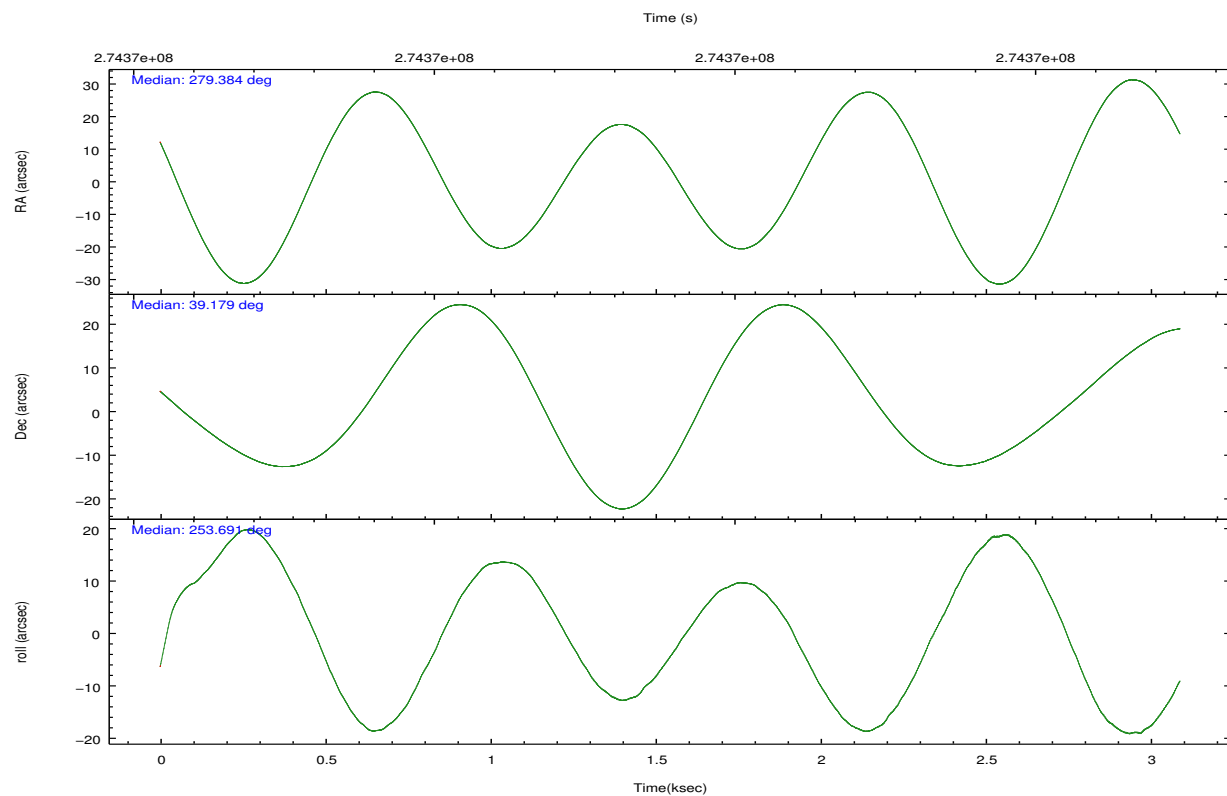
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|-----------------------|----------------------|
| Instrument | HRC | HRC |
| Detector | HRC-S | HRC-S |
| Grating | NONE | NONE |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 279.373299 | 279.3837888739018 |
| [deg] Pointing Dec | 39.206612 | 39.17897764744716 |
| [deg] Pointing Roll | 253.635894 | 253.6965922695753 |
| [s] Window start time (MET) | 270777665.184000 | 270777665.184000 |
| [s] Window stop time (MET) | 275961665.184000 | 275961665.184000 |
| [mm] SIM focus pos | -1.533336 | -1.526339935833849 |
| [mm] SIM defocus | 7.710433287538843e-07 | 0.006996703570447904 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 274369434.184000 | 274369057.98819 |
| Observation start date | 2006-09-11T13:42:49 | 2006-09-11T13:37:37 |
| [s] Observation end time (MET) | 274371434.184000 | 274373000.13837 |
| Observation end date | 2006-09-11T14:16:09 | 2006-09-11T14:43:20 |

| Parameter | Planned | Actual |
|------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |

2.3 Aspect



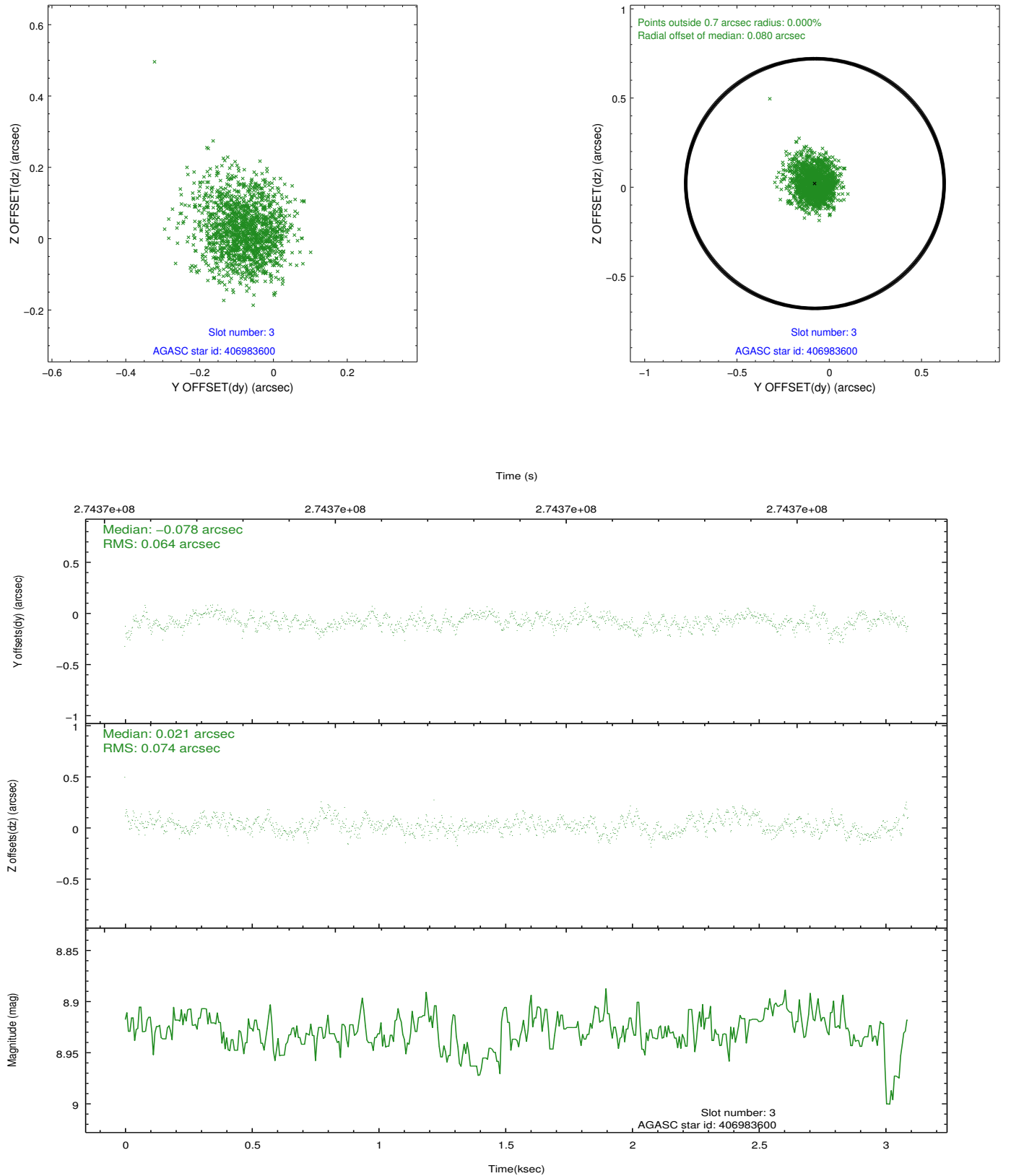


Slot Statistics

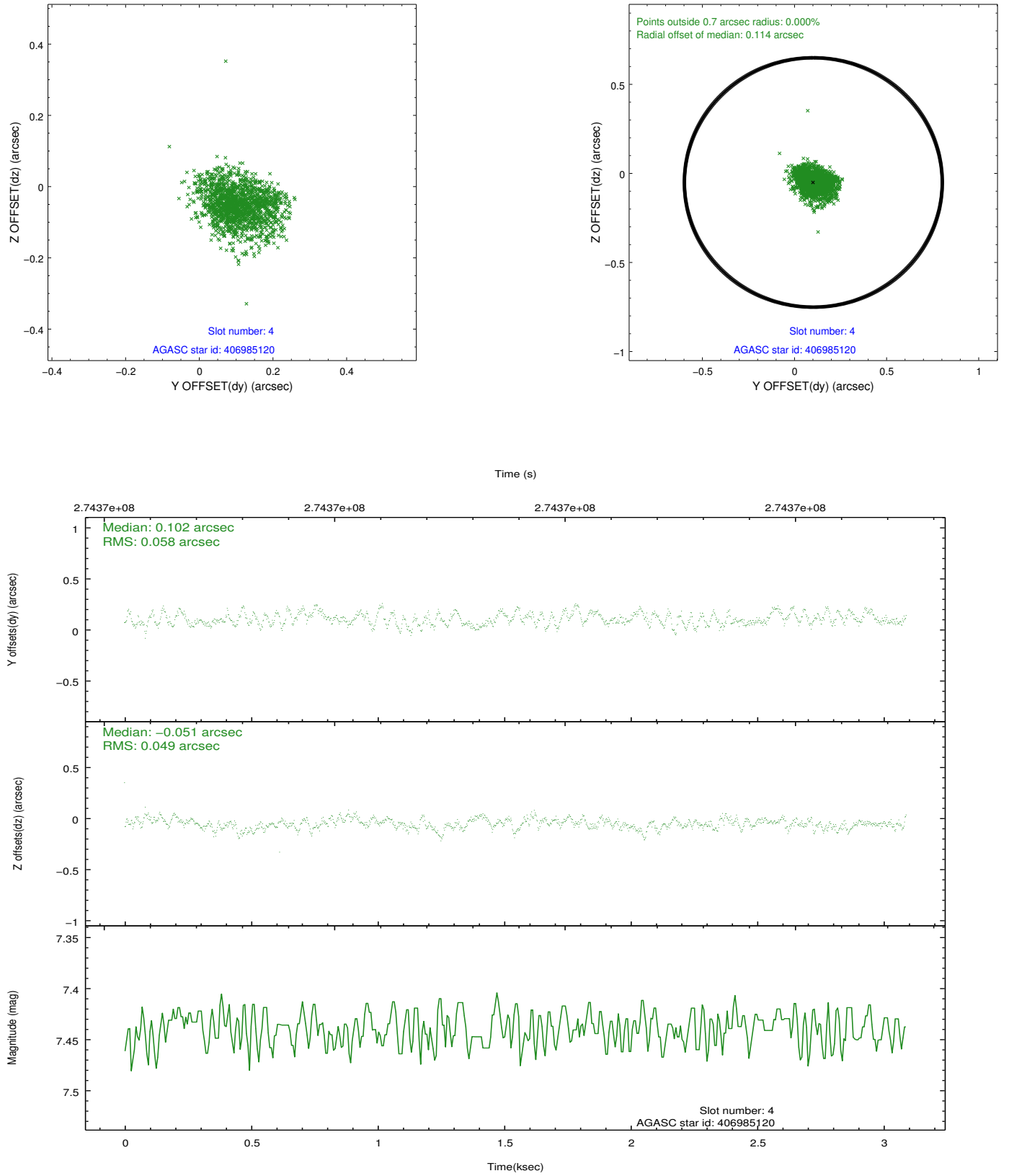
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.04 | 754 | 0.089 | -0.135 | 0.005 | 0.009 | 0.000000 | 0.000000 | -1163.96 | -461.30 |
| 1 | FID | HRC-S-2 | 7.03 | 754 | 0.103 | -0.076 | 0.009 | 0.014 | 0.000000 | 0.000000 | 1234.17 | -454.50 |
| 2 | FID | HRC-S-4 | 7.01 | 754 | 0.211 | -0.092 | 0.008 | 0.013 | 0.000000 | 0.000000 | 1236.03 | 570.21 |
| 3 | GUIDE | 406983600 | 8.93 | 1507 | -0.078 | 0.021 | 0.102 | 0.170 | 279.940957 | 39.020708 | 189.78 | 1711.50 |
| 4 | GUIDE | 406985120 | 7.44 | 1508 | 0.102 | -0.051 | 0.081 | 0.130 | 278.839732 | 38.894839 | 1493.83 | -1118.05 |
| 5 | GUIDE | 407510432 | 8.14 | 1508 | -0.020 | -0.066 | 0.069 | 0.120 | 278.762778 | 39.530640 | -646.41 | -1957.47 |
| 6 | GUIDE | 407513096 | 8.14 | 1507 | 0.023 | 0.054 | 0.065 | 0.104 | 279.928965 | 39.436841 | -1236.03 | 1246.36 |
| 7 | GUIDE | 407521584 | 8.93 | 1507 | -0.028 | 0.044 | 0.074 | 0.124 | 279.676096 | 39.795417 | -2272.31 | 206.87 |

2.4 Star Slots

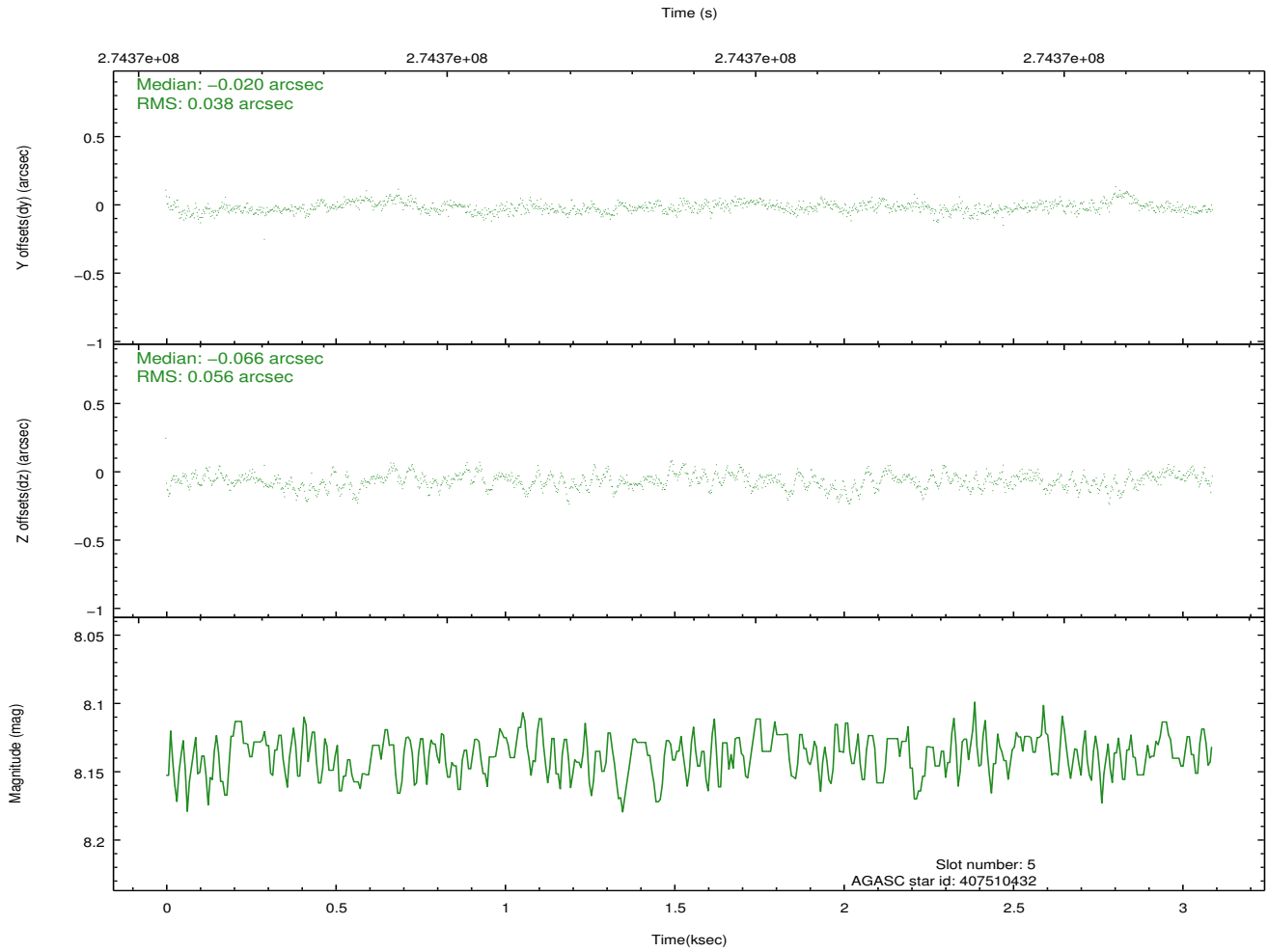
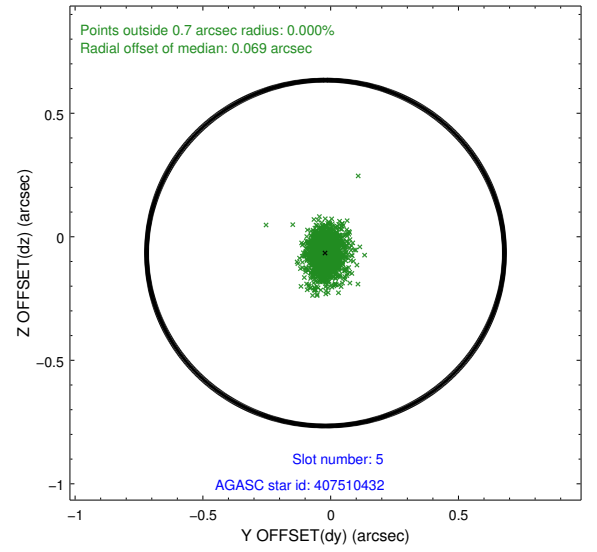
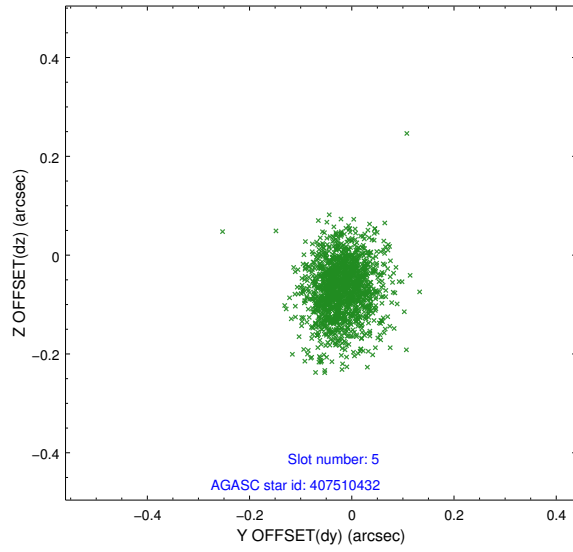
2.4.1 Slot 3



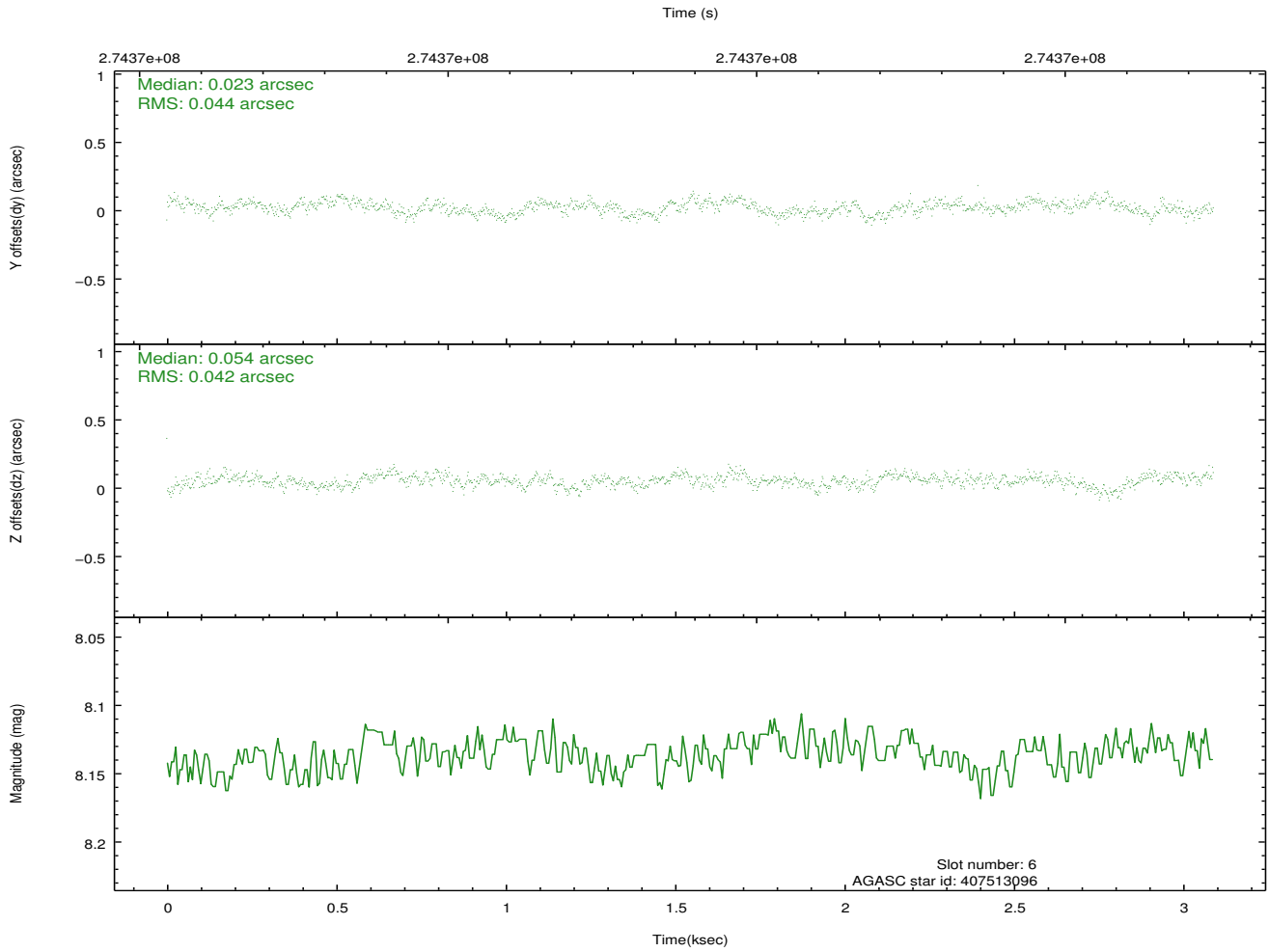
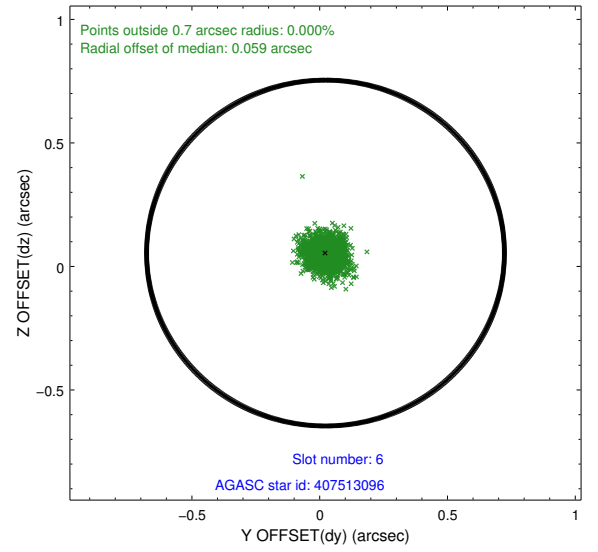
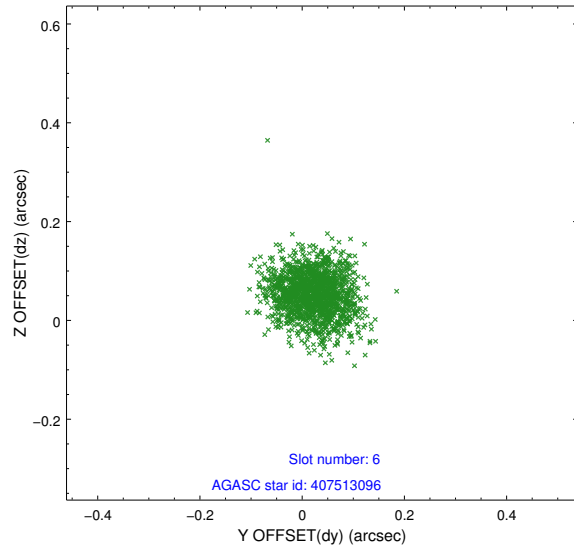
2.4.2 Slot 4



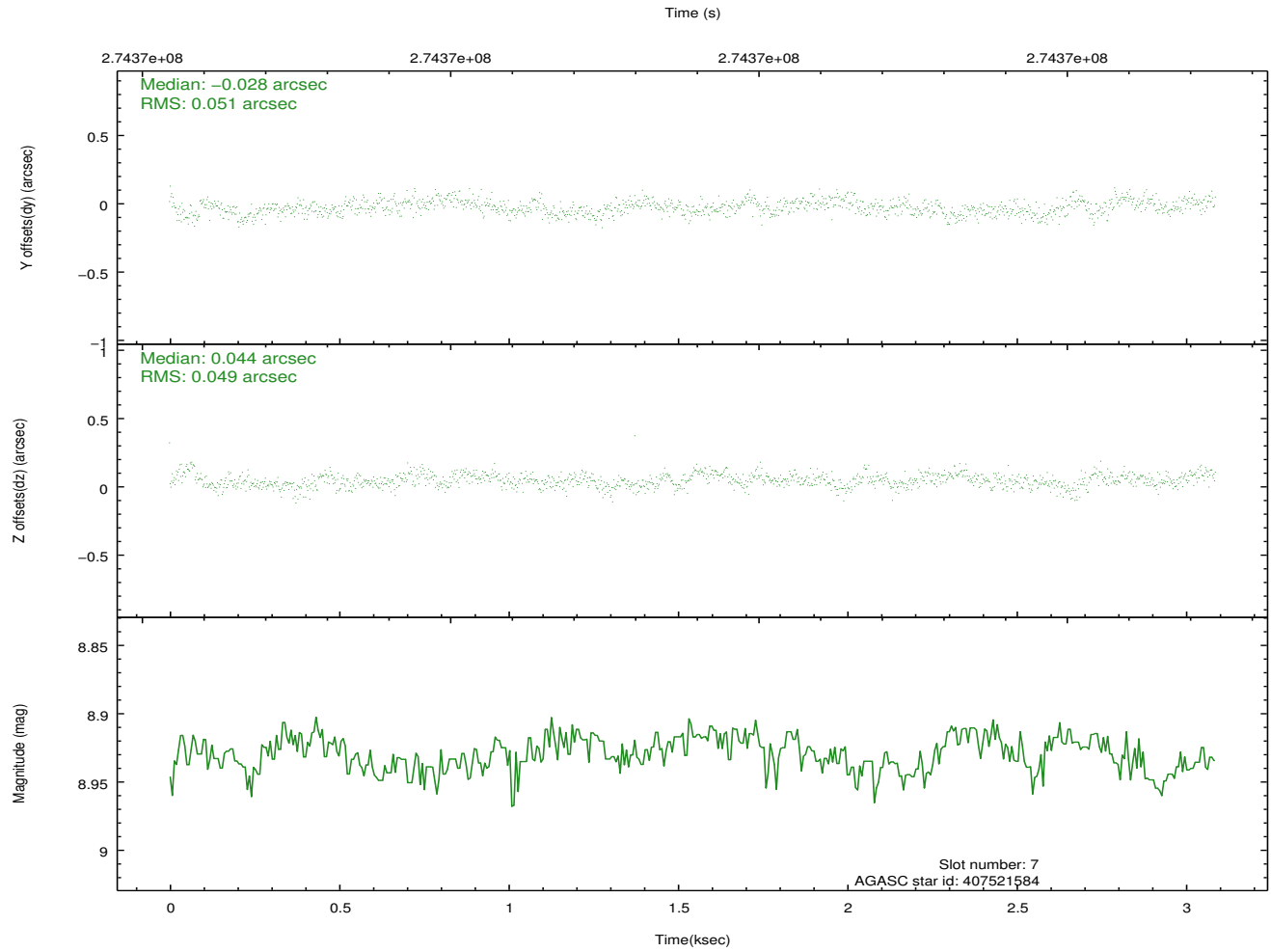
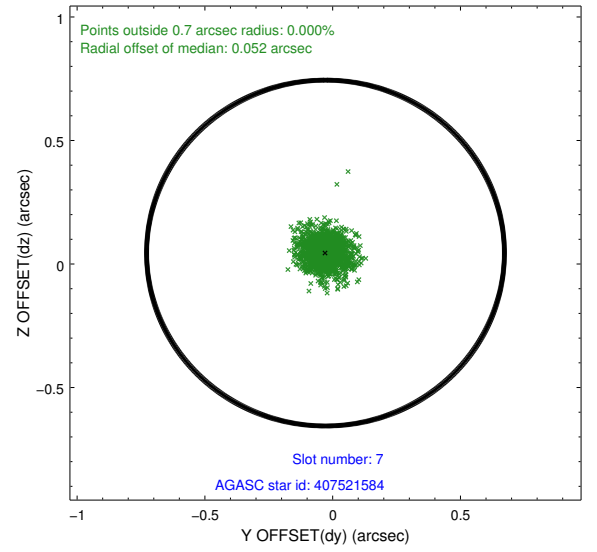
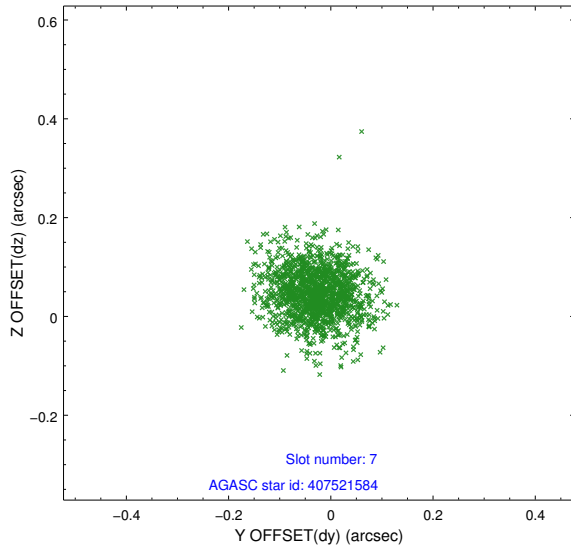
2.4.3 Slot 5



2.4.4 Slot 6

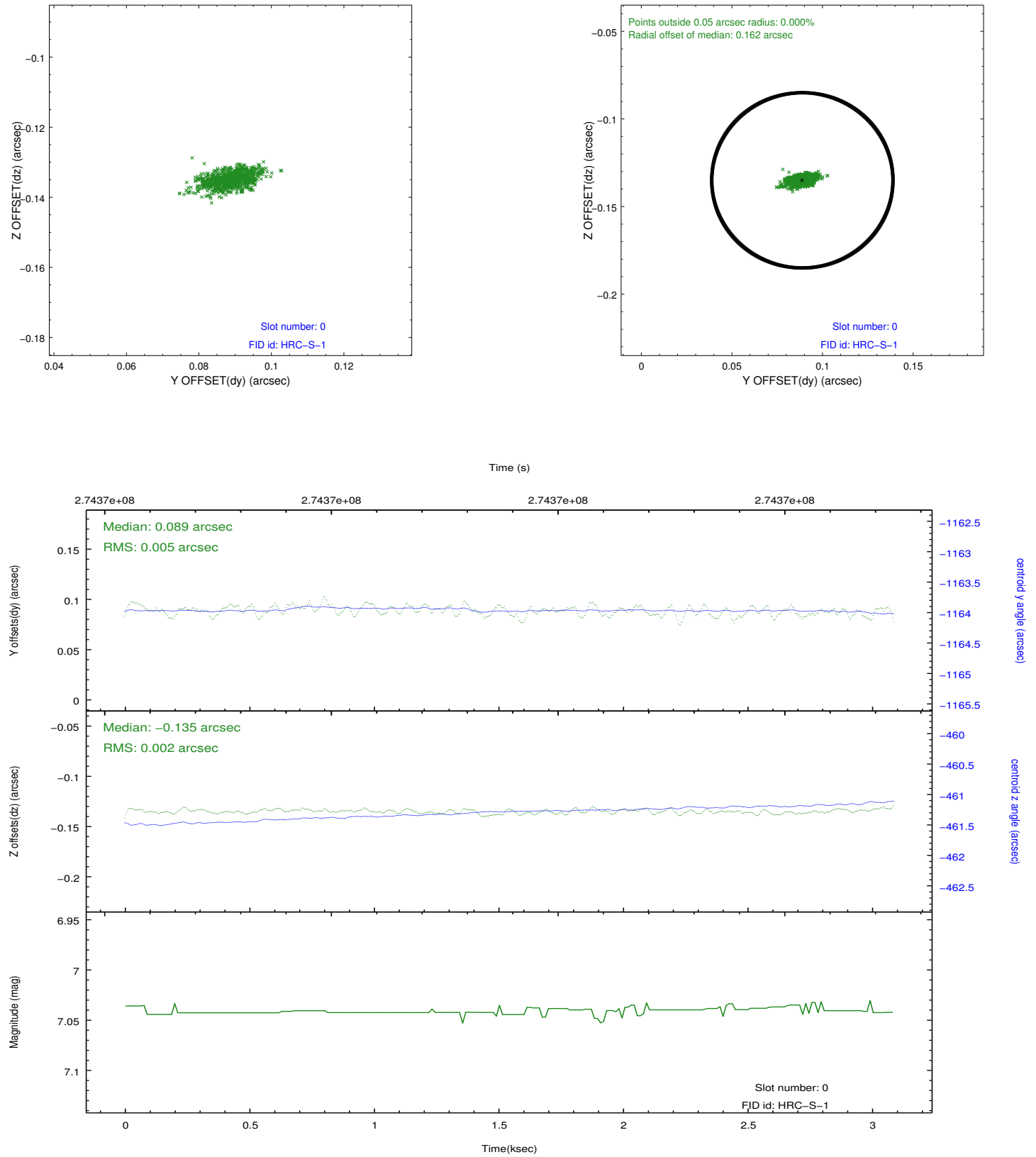


2.4.5 Slot 7

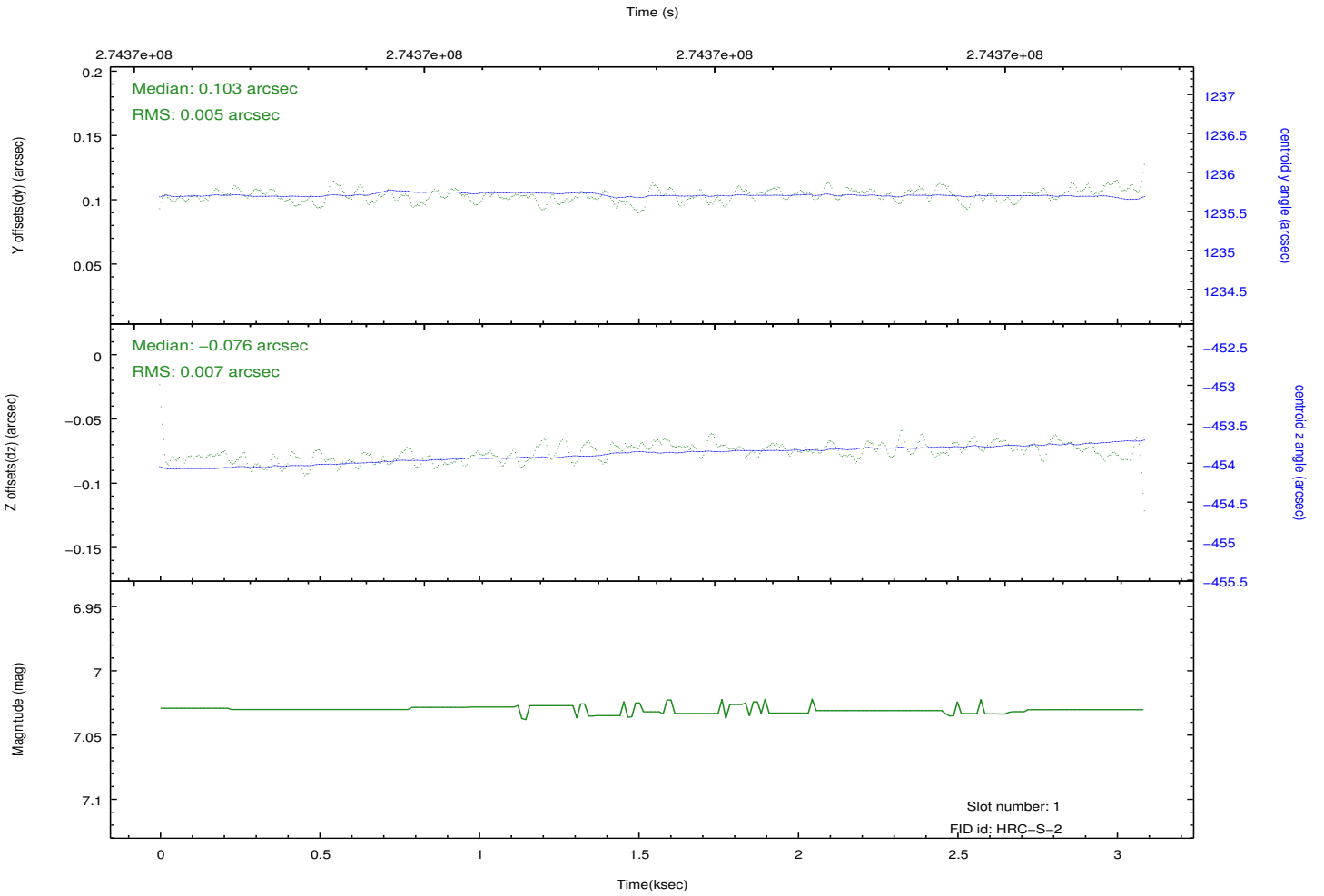
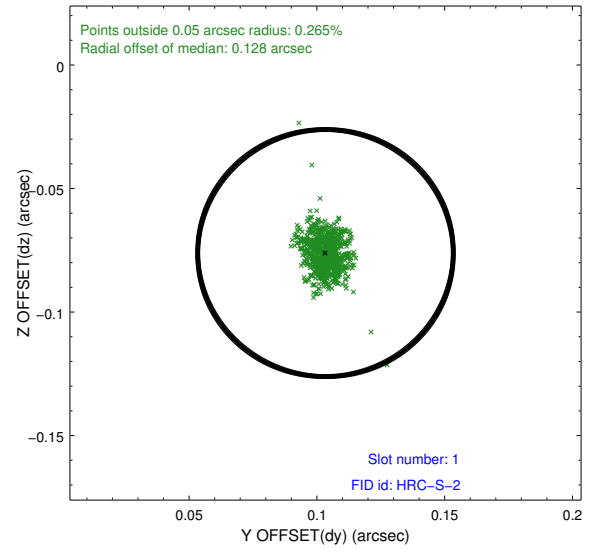
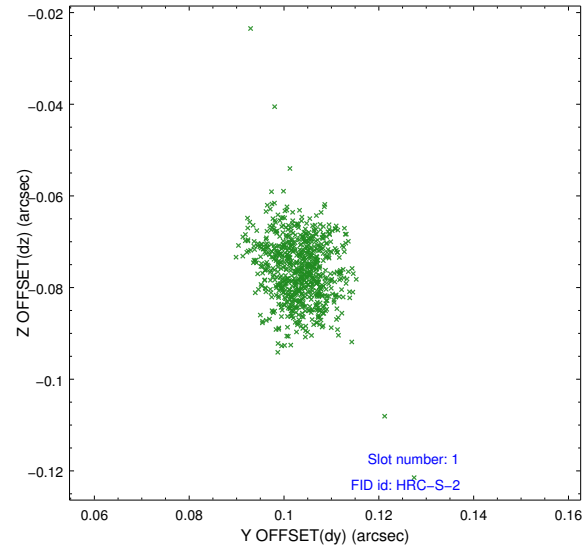


2.5 FID Slots

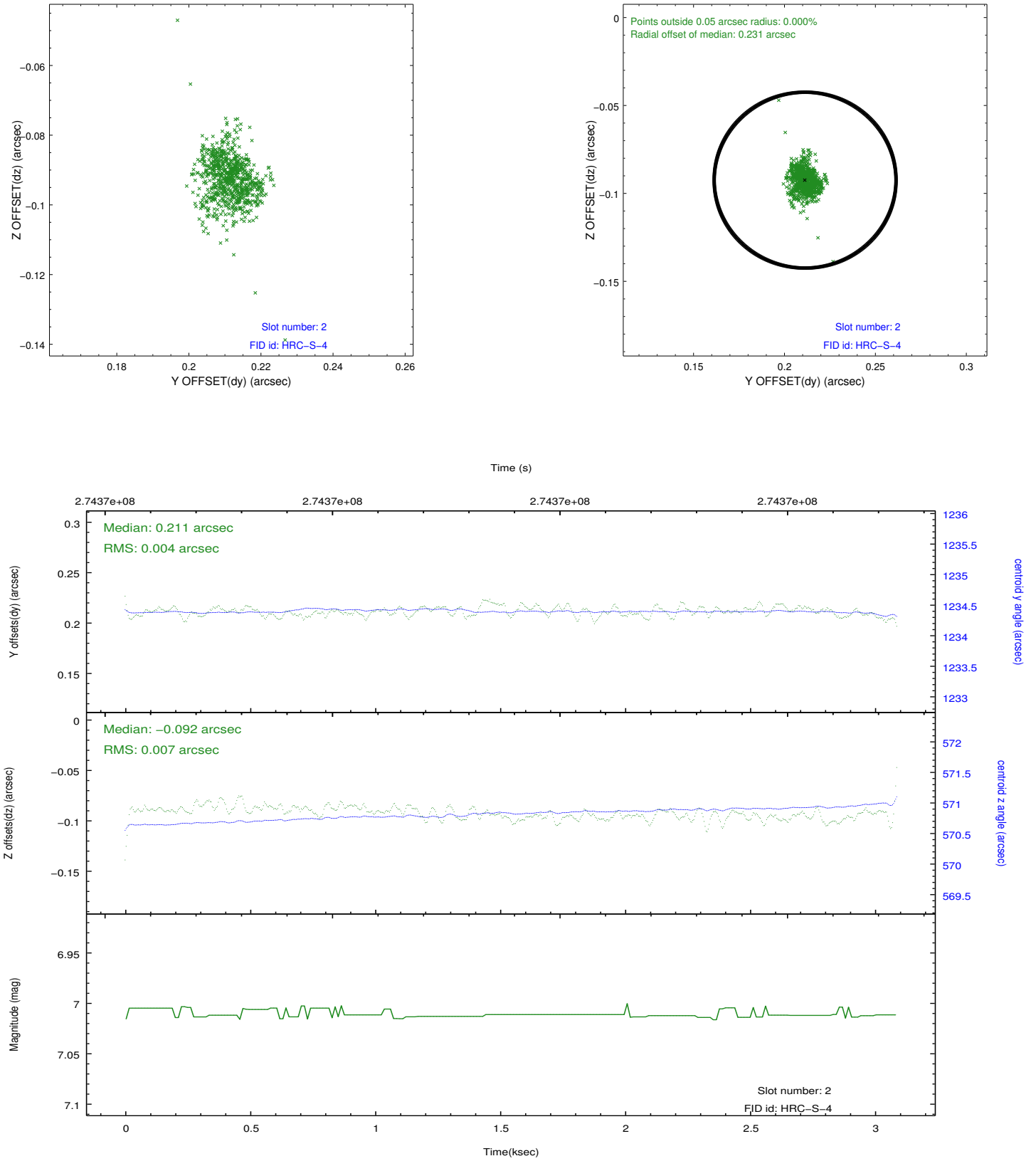
2.5.1 Slot 0



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) | 2012.08.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.45180011 |

A.2 Comments

Window preference met.