

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5091 - L2 Version 3
Chandra X-Ray Center

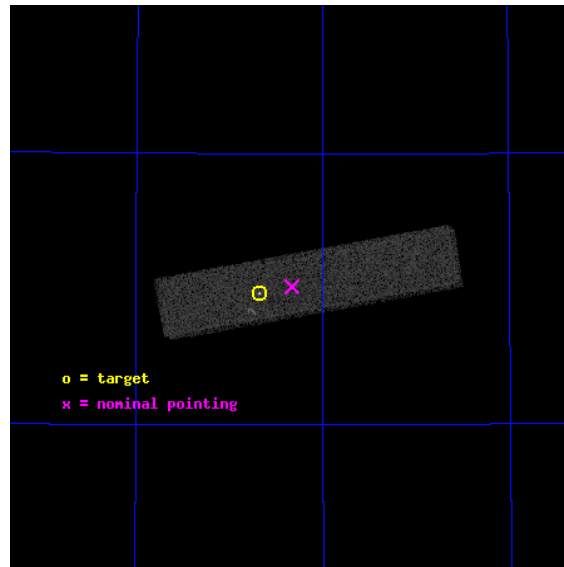
L2 Processing Date : Nov 11 2012

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1 Front

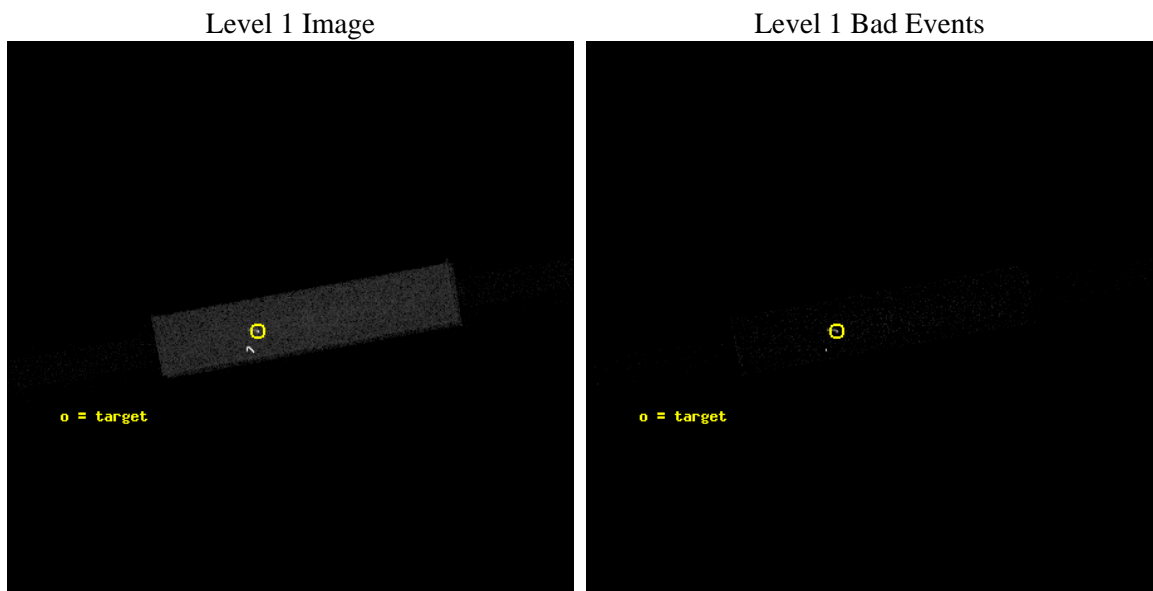
| | | |
|----------|---|---------------------------------------|
| seq_num | 290364 | Sequence number |
| obs_id | 5091 | Observation id |
| title | AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.08322125399 | Nominal RA [deg] |
| dec_nom | 45.754446210604 | Nominal Dec [deg] |
| roll_nom | 349.68577730418 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1087.7812975645 | [s] |
| livetime | 1038.7220513258 | Ontime multiplied by DTCOR |
| l2events | 41915 | 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 | 946.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 1087.7812975645 | [s] |
| caldsver | 4.5.2 | | l1events | 141796 | Number of level 1 events |
| date | 2012-11-11T14:45:17 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

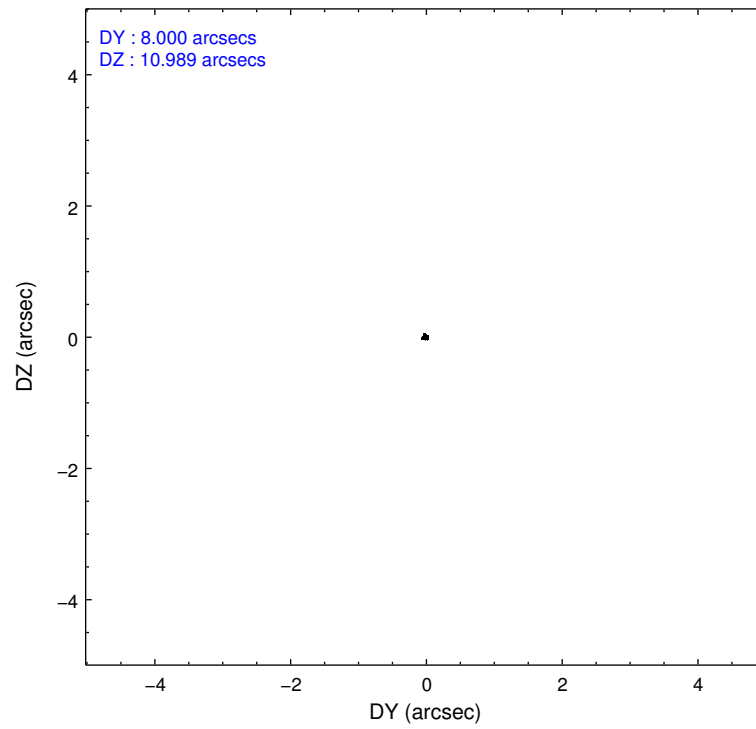
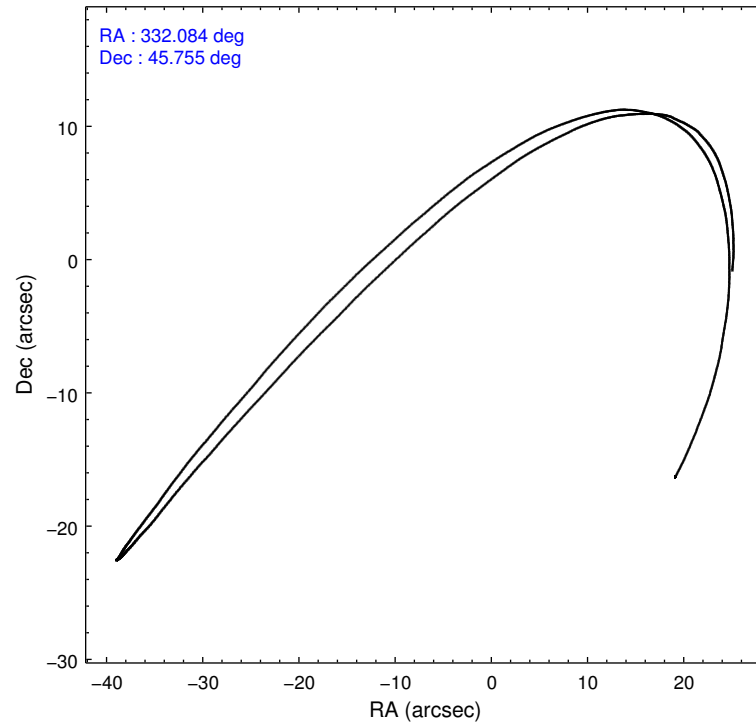
Level 1 Events

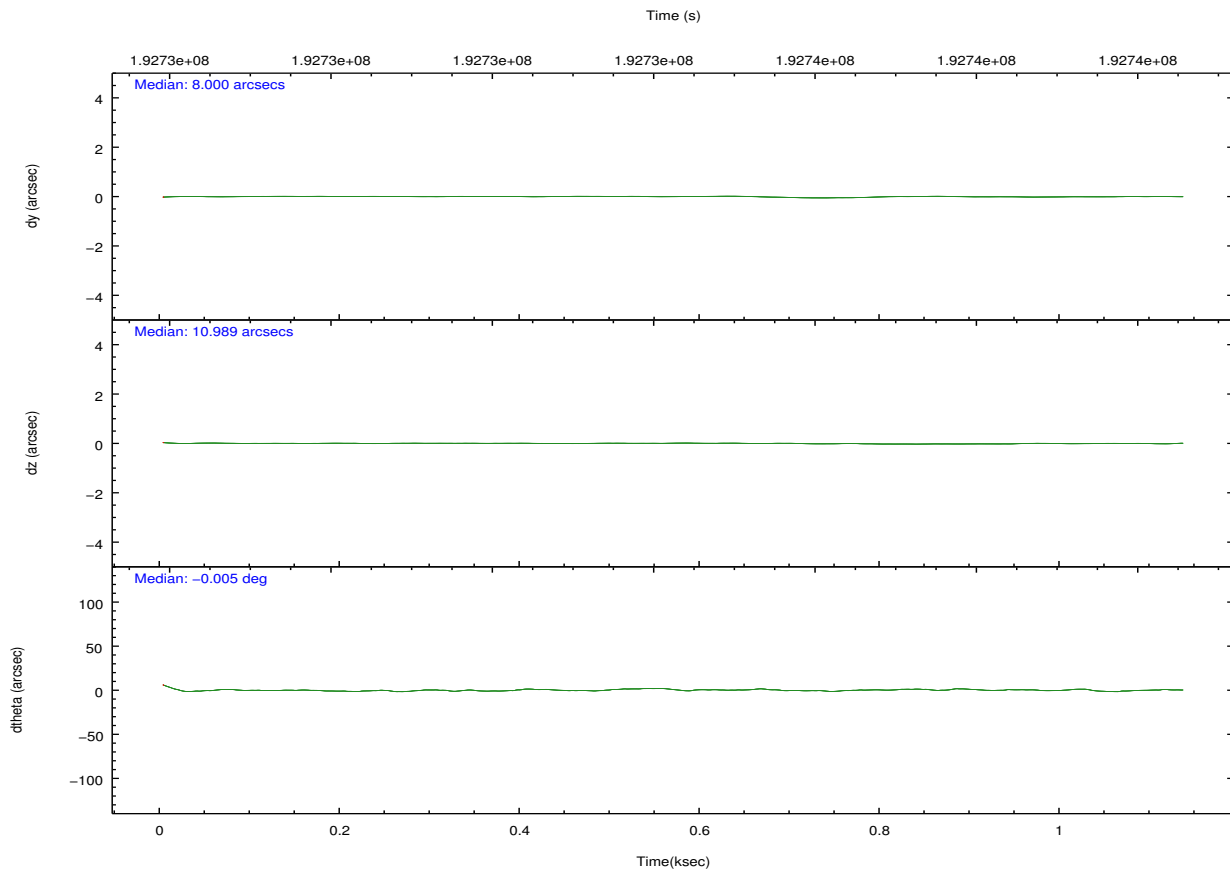
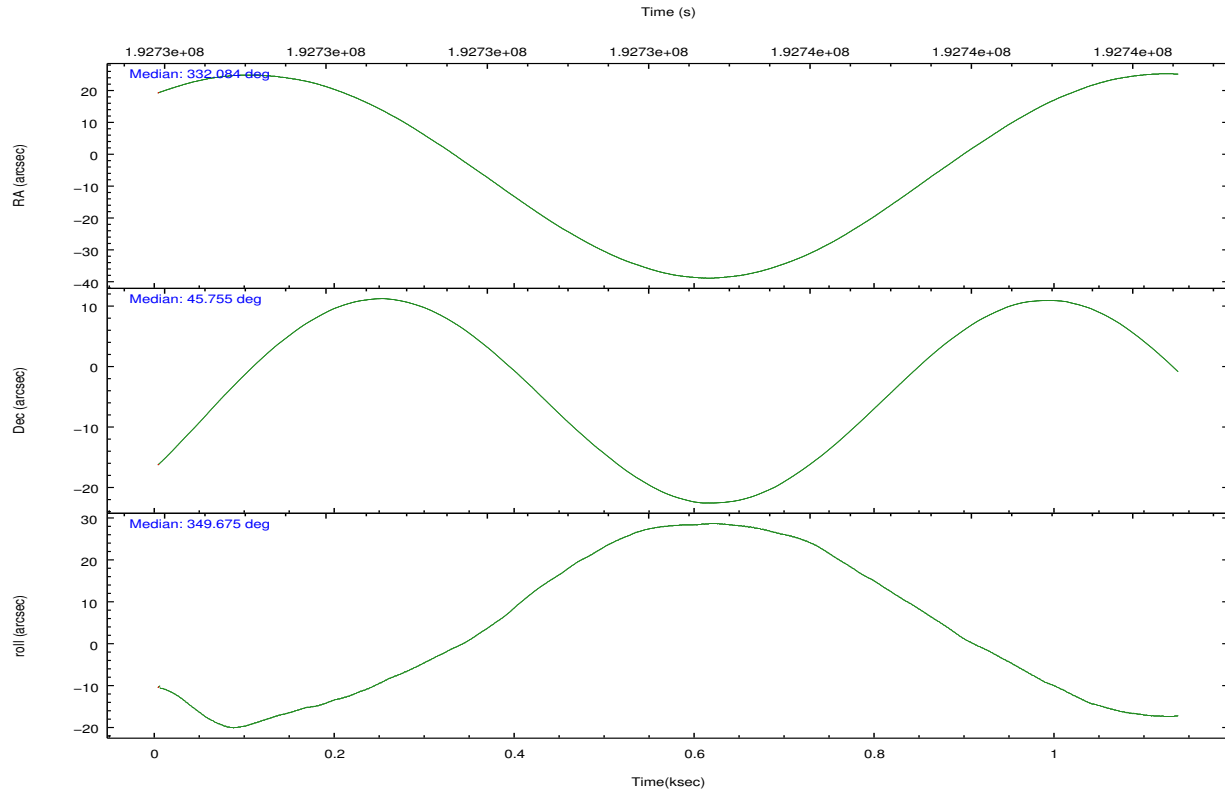
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 1102 | 139552 | 1142 |
| rejected events | 1102 | 27720 | 1142 |
| rejected % | 100% | 19% | 100% |

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 | 332.044744 | 332.0832212539874 | | | |
| [deg] Pointing Dec | 45.742425 | 45.75444621060425 | | | |
| [deg] Pointing Roll | 349.646032 | 349.6857773041783 | | | |
| [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) | 192734449.184000 | 192734073.17264 | | | |
| Observation start date | 2004-02-09T17:19:45 | 2004-02-09T17:14:33 | | | |
| [s] Observation end time (MET) | 192735395.184000 | 192735528.6727 | | | |
| Observation end date | 2004-02-09T17:35:31 | 2004-02-09T17:38:48 | | | |

2.3 Aspect



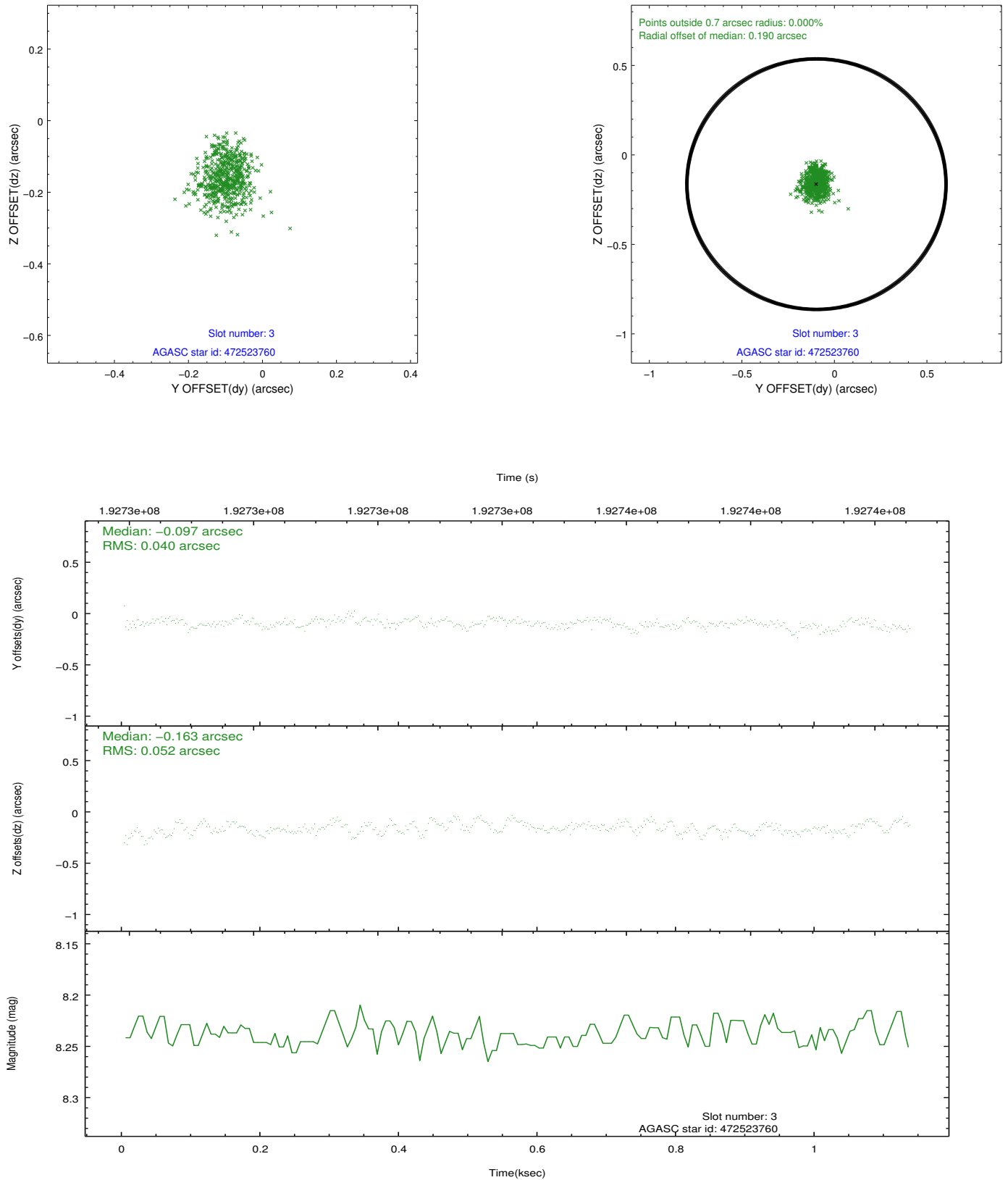


Slot Statistics

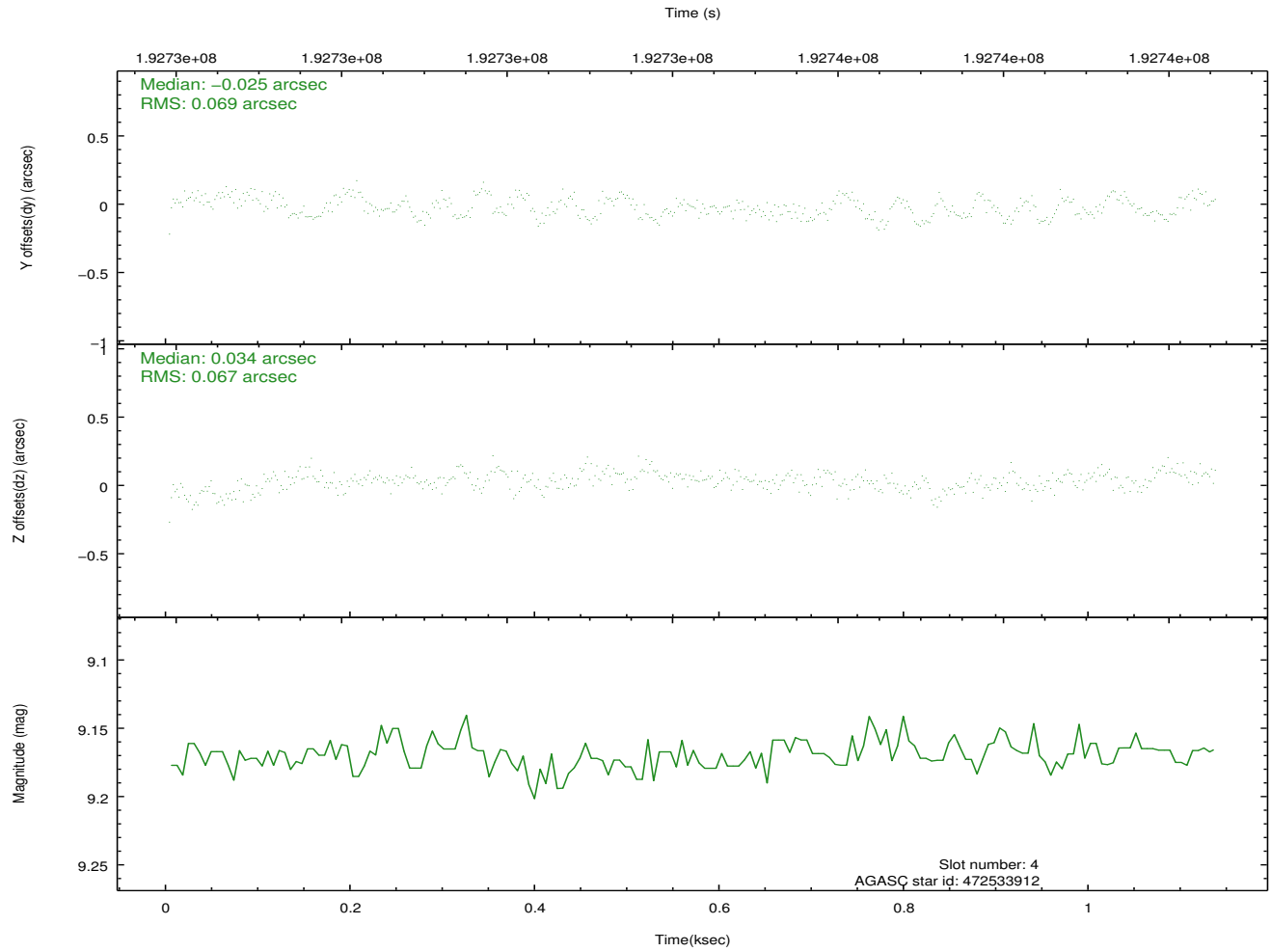
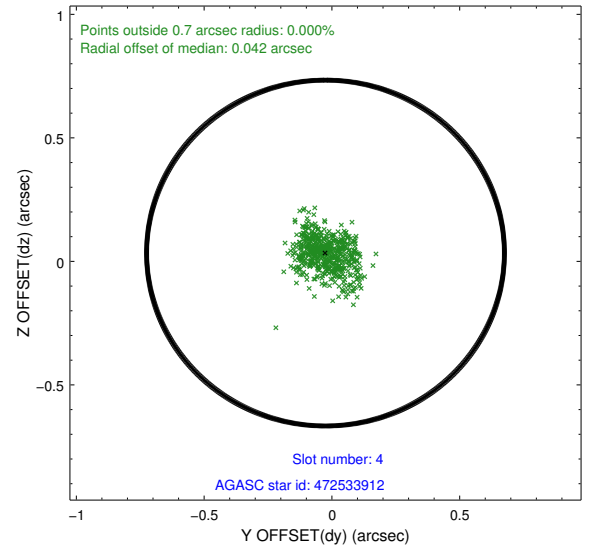
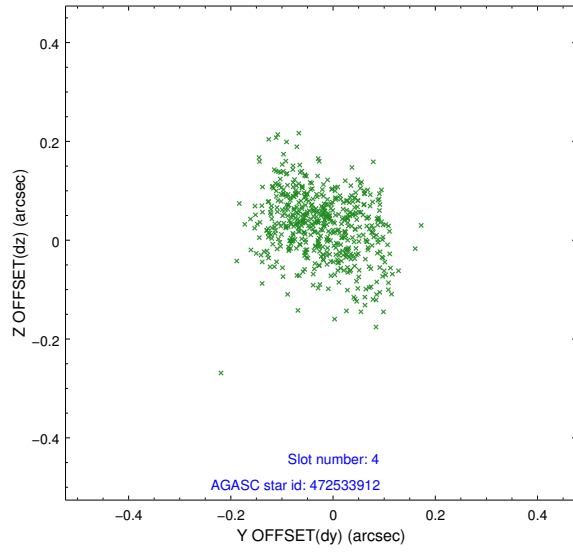
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.03 | 277 | 0.111 | -0.130 | 0.004 | 0.007 | 0.000000 | 0.000000 | -1162.17 | -459.70 |
| 1 | FID | HRC-S-2 | 7.02 | 277 | 0.092 | -0.148 | 0.008 | 0.015 | 0.000000 | 0.000000 | 1233.29 | -453.97 |
| 2 | FID | HRC-S-4 | 7.00 | 277 | 0.200 | -0.025 | 0.007 | 0.015 | 0.000000 | 0.000000 | 1240.61 | 570.91 |
| 3 | GUIDE | 472523760 | 8.24 | 554 | -0.097 | -0.163 | 0.071 | 0.111 | 331.645363 | 45.403260 | -774.47 | -1384.29 |
| 4 | GUIDE | 472533912 | 9.17 | 554 | -0.025 | 0.034 | 0.102 | 0.173 | 331.791136 | 46.368695 | -1027.47 | 2099.10 |
| 5 | GUIDE | 472654568 | 9.42 | 554 | -0.032 | -0.041 | 0.107 | 0.191 | 332.194449 | 45.063576 | 811.67 | -2335.29 |
| 6 | GUIDE | 472659832 | 9.46 | 554 | 0.021 | 0.111 | 0.096 | 0.159 | 332.780399 | 46.098139 | 1575.55 | 1590.42 |
| 7 | GUIDE | 472655152 | 9.43 | 551 | 0.139 | 0.045 | 0.092 | 0.151 | 332.504239 | 45.862991 | 1057.00 | 636.50 |

2.4 Star Slots

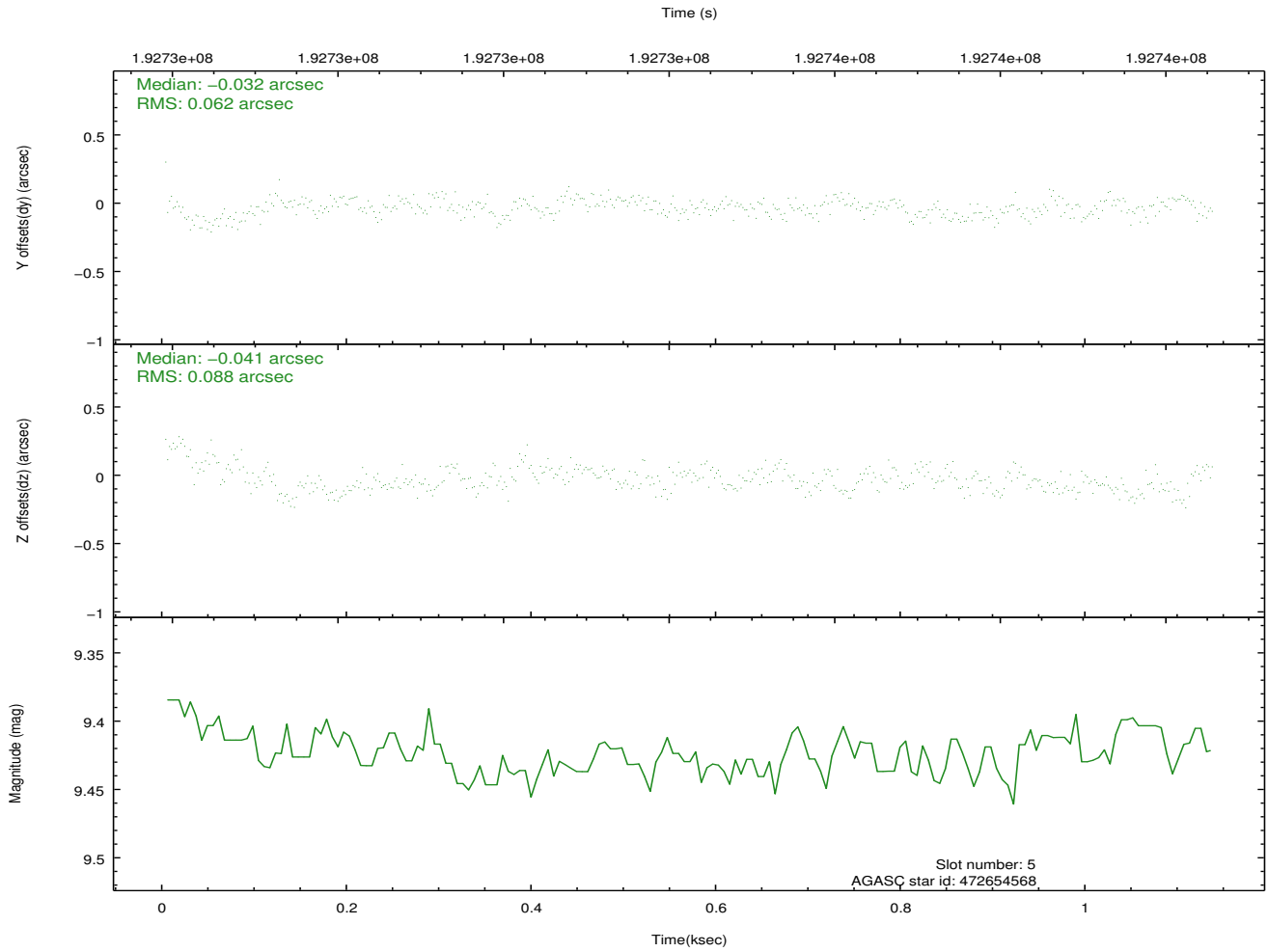
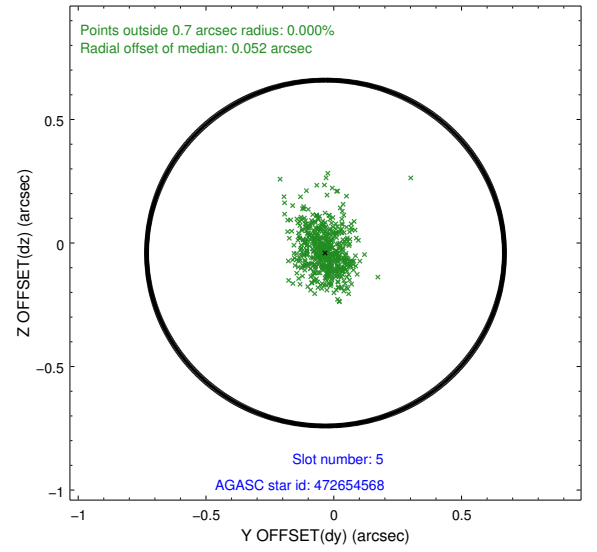
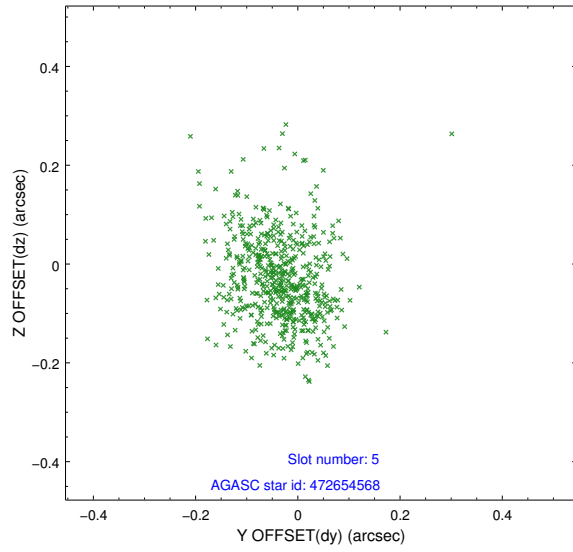
2.4.1 Slot 3



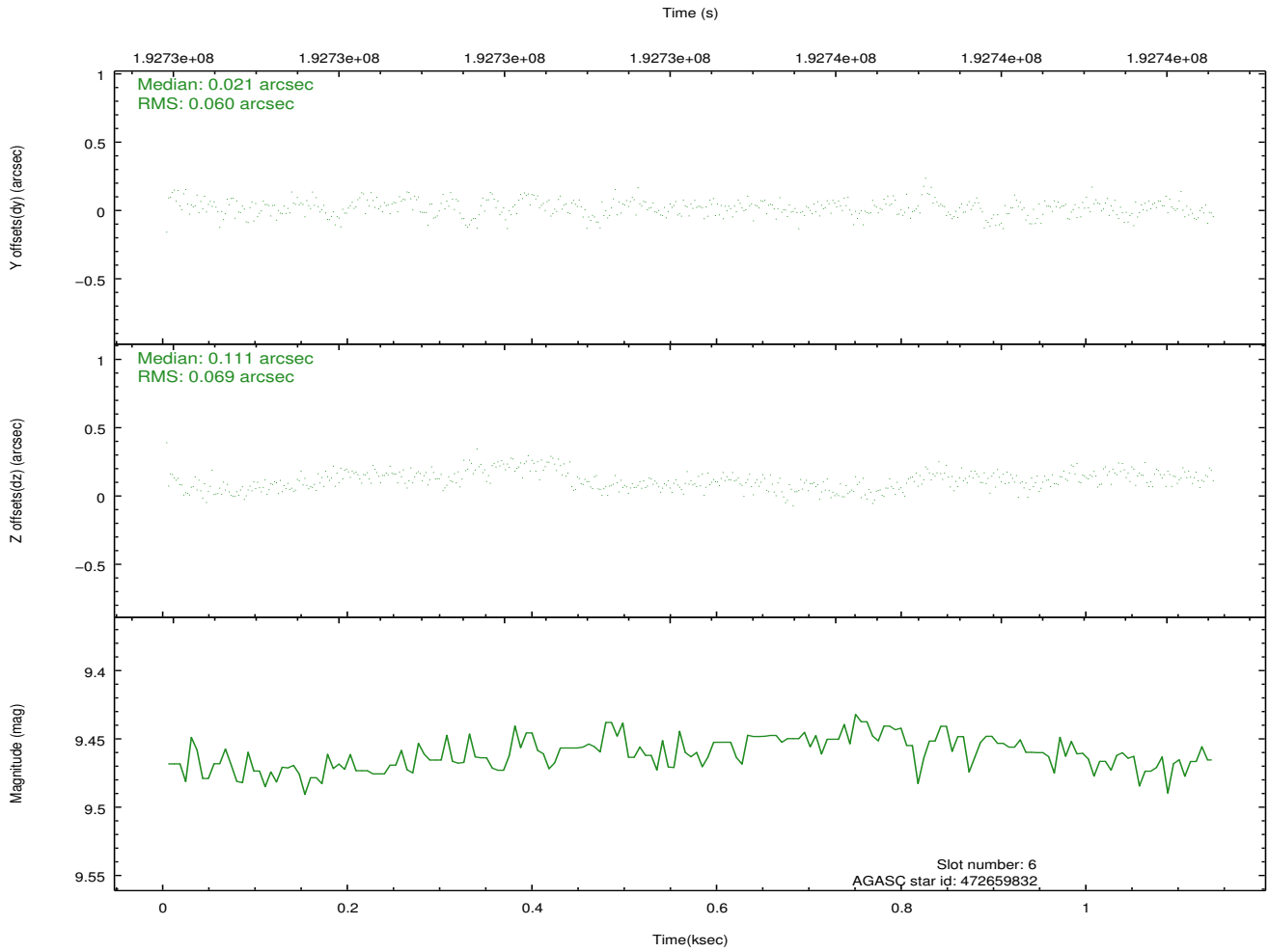
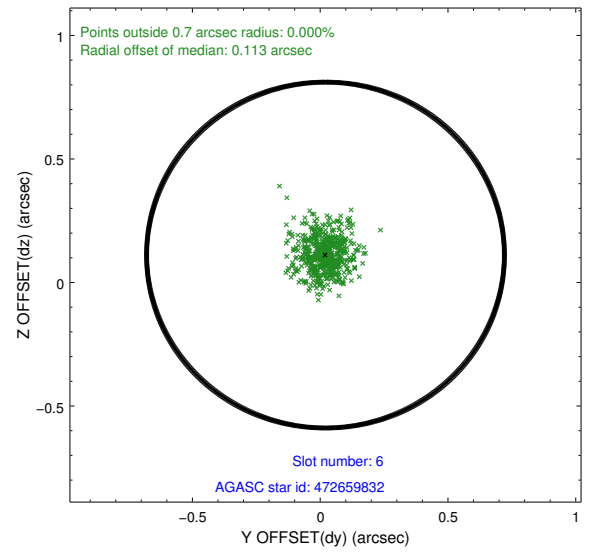
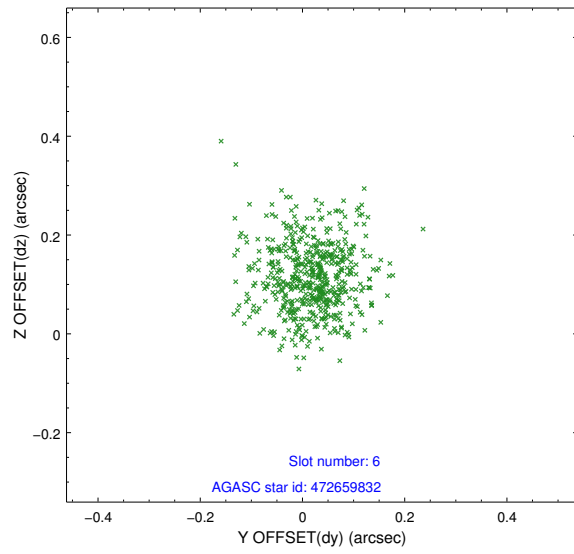
2.4.2 Slot 4



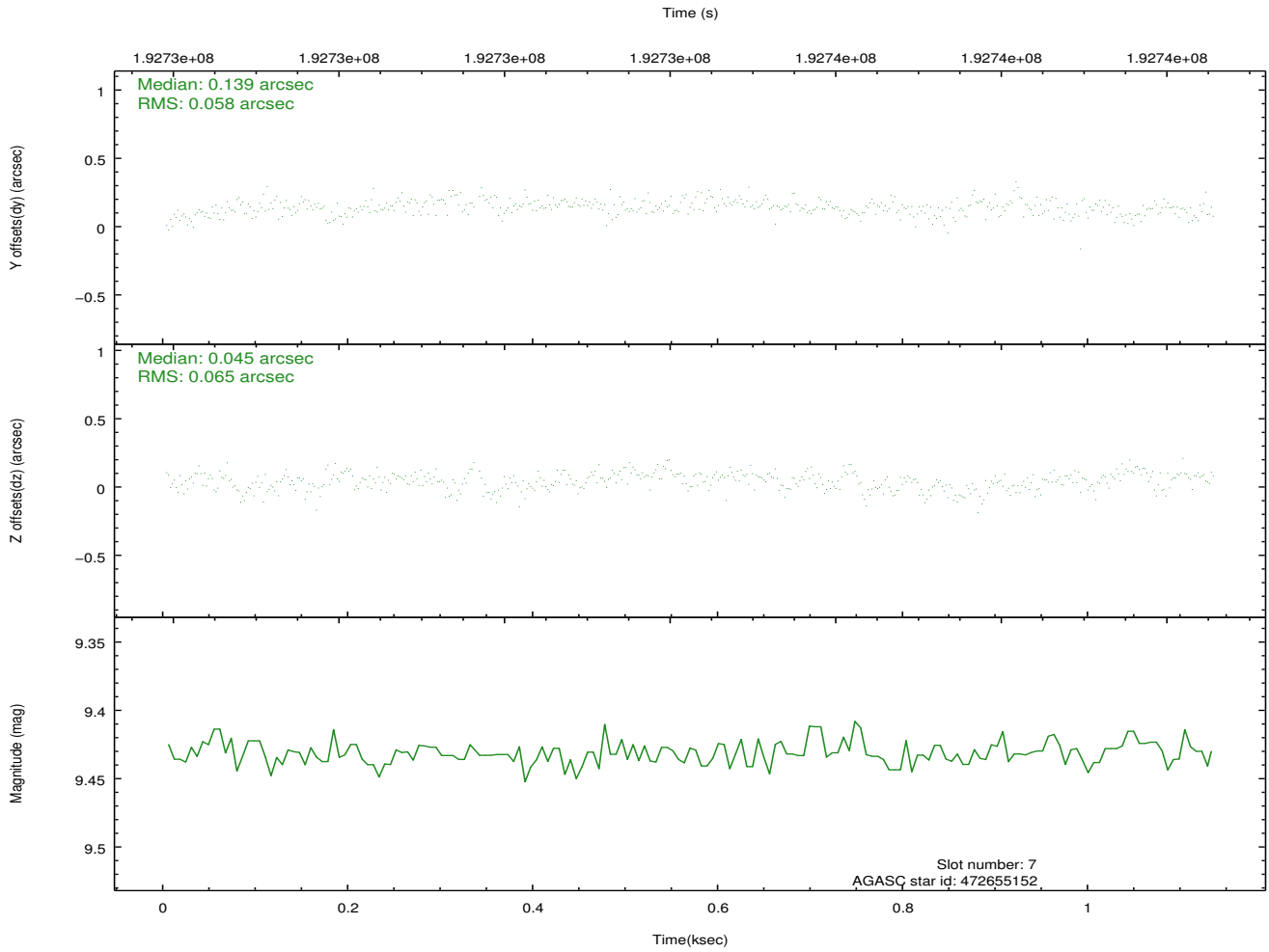
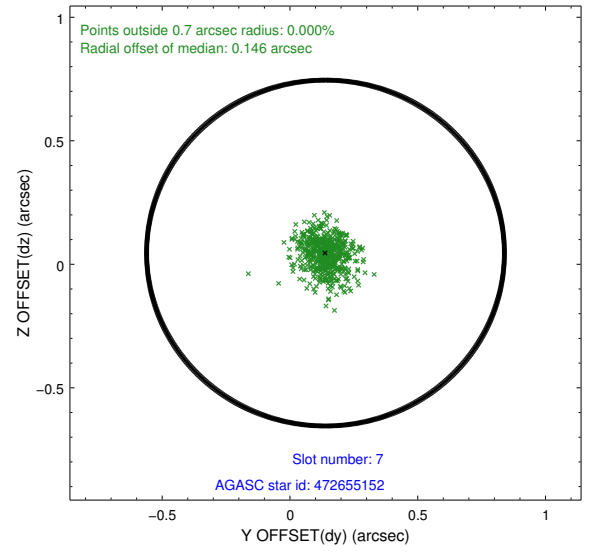
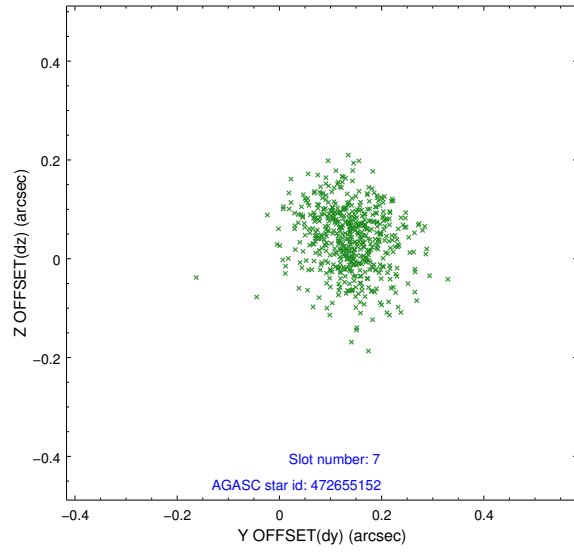
2.4.3 Slot 5



2.4.4 Slot 6

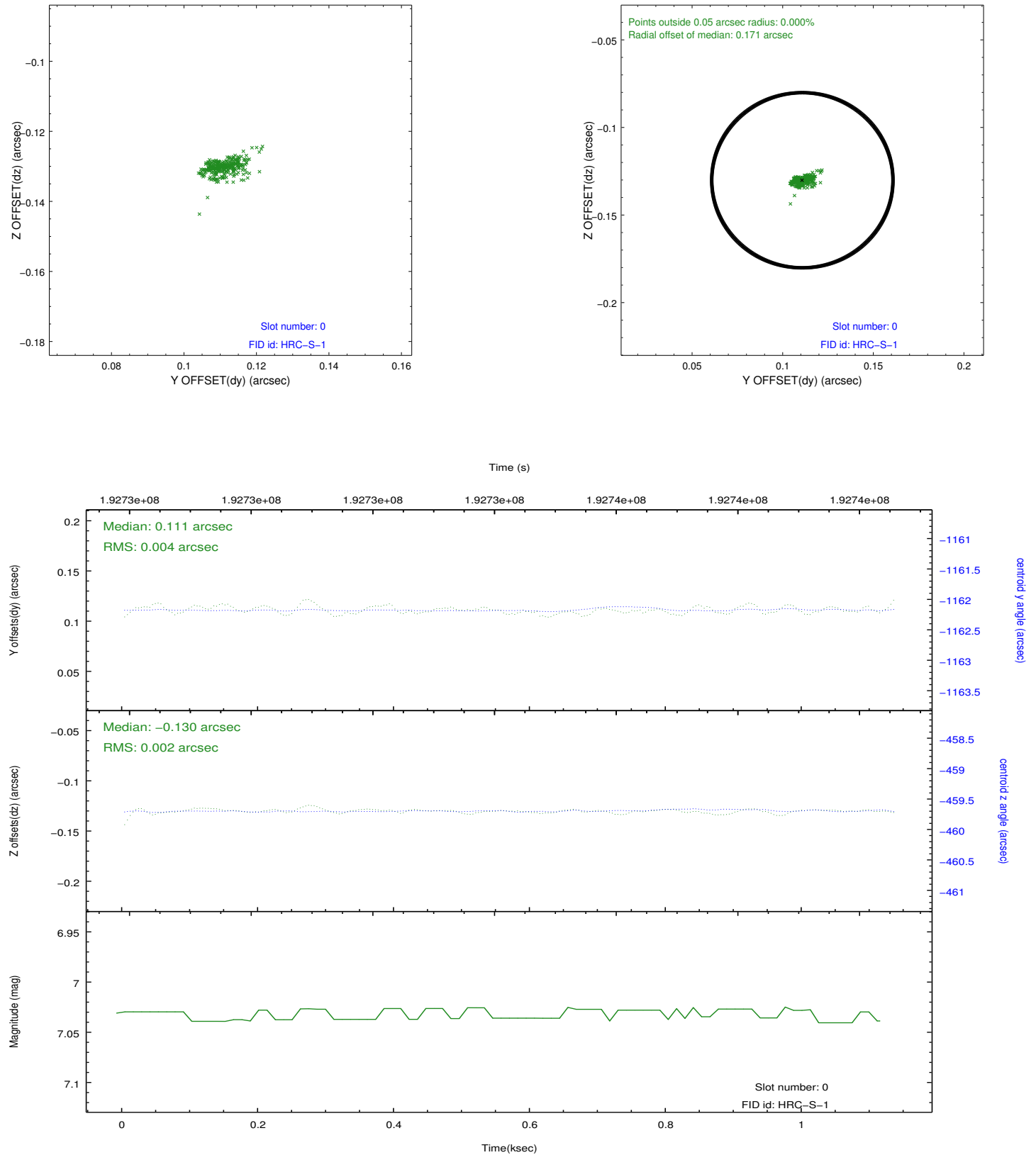


2.4.5 Slot 7

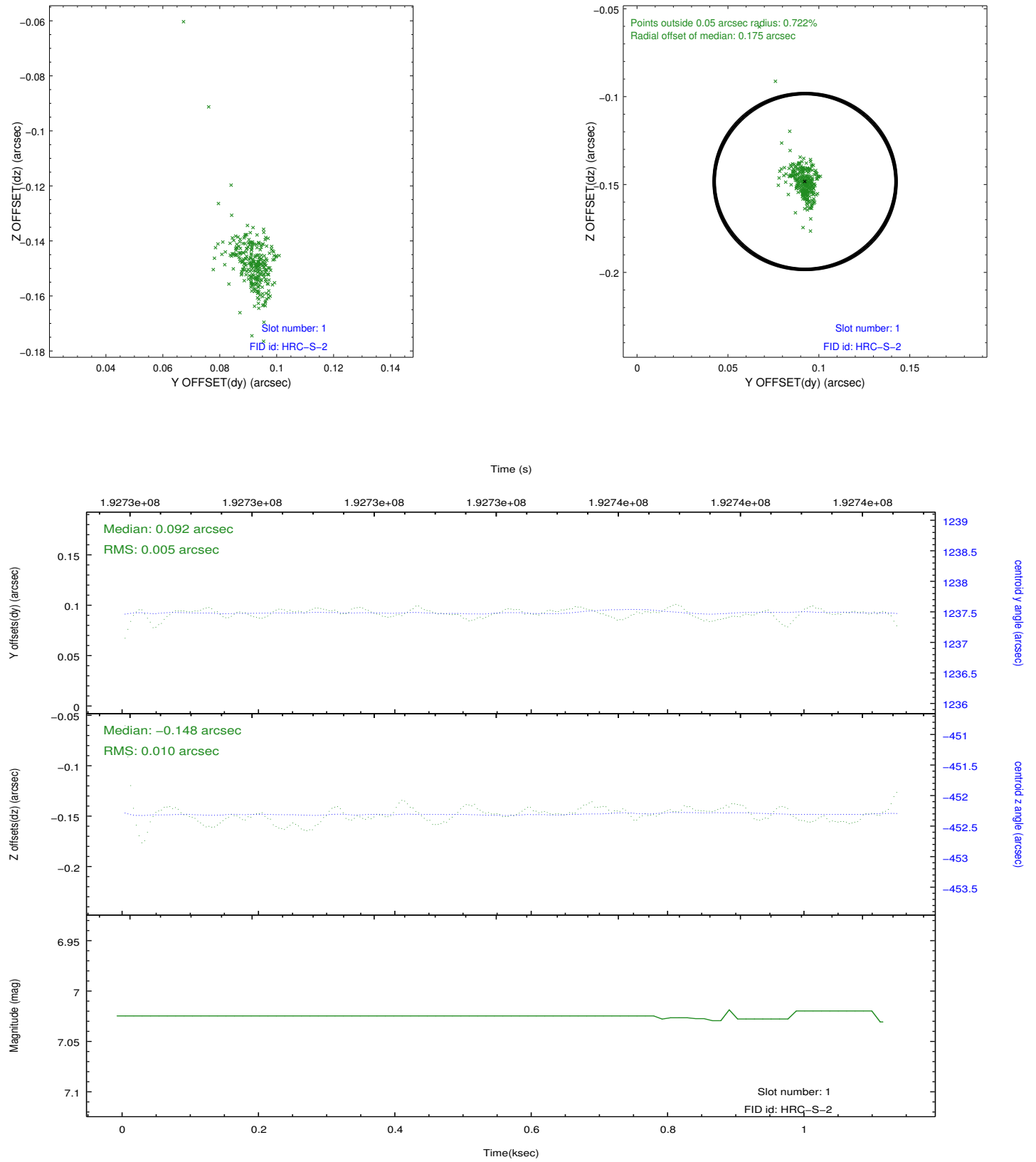


2.5 FID Slots

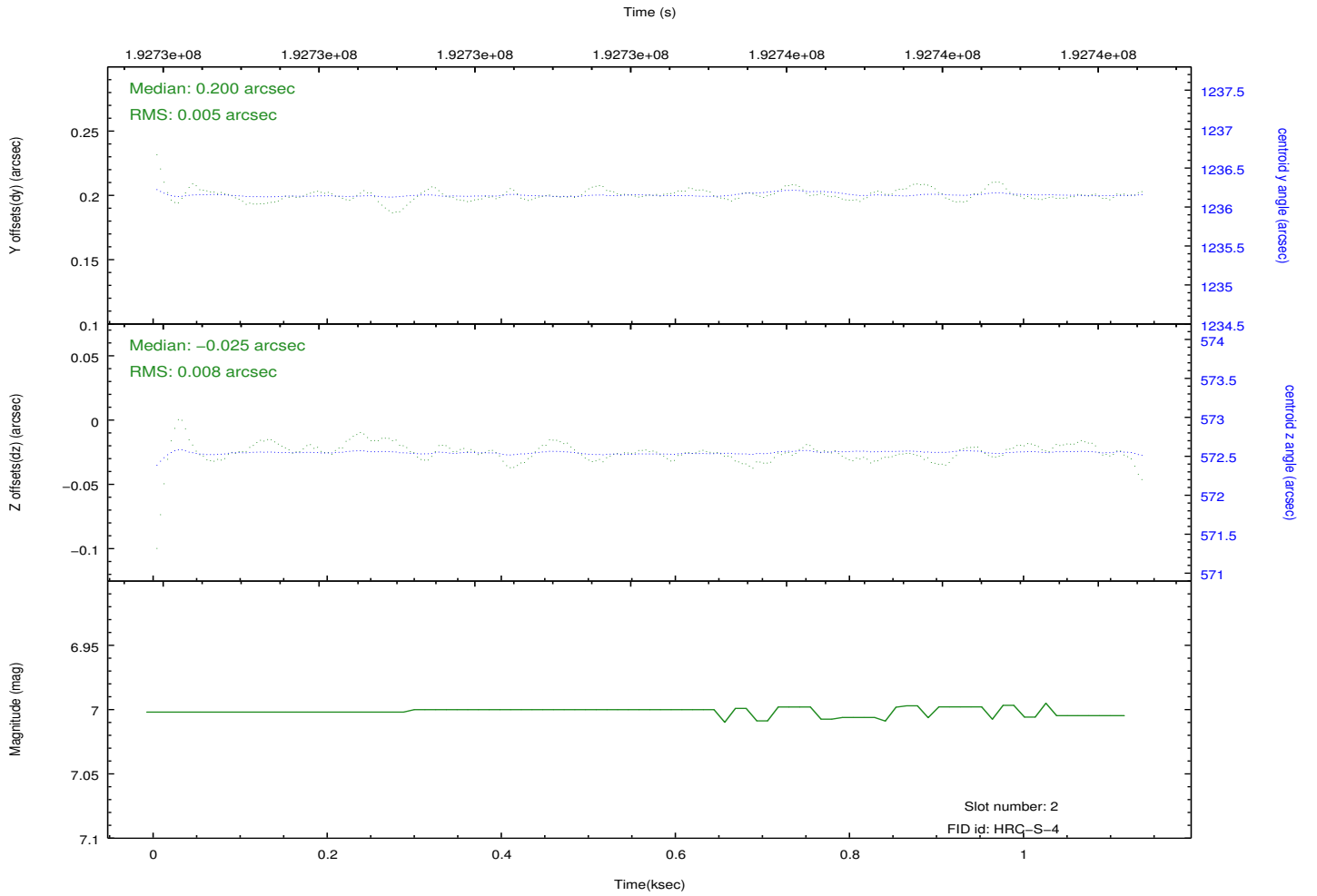
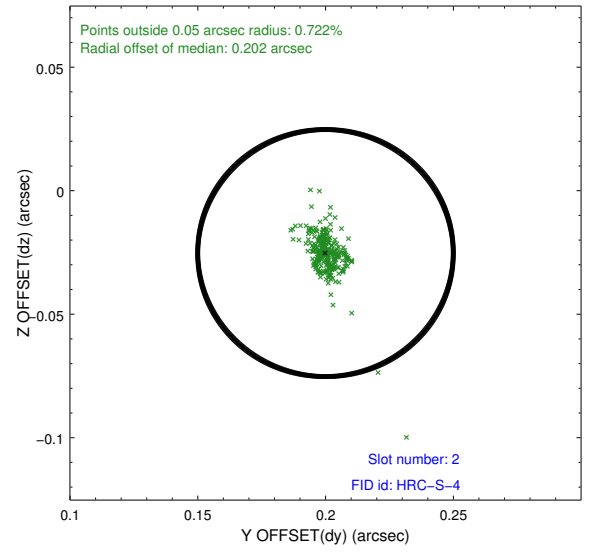
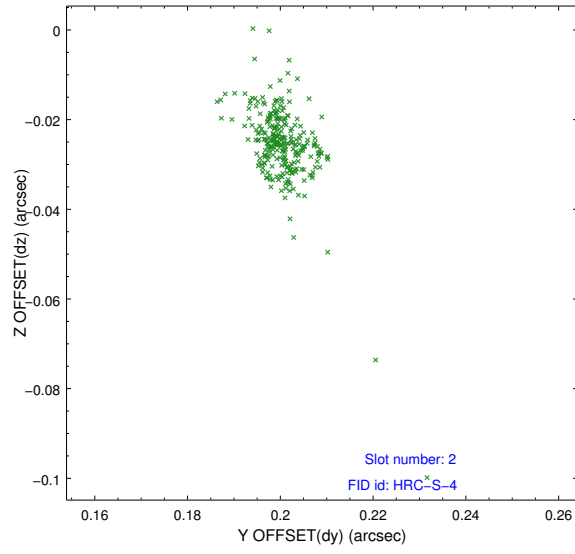
2.5.1 Slot 0



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) | 2012.12.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.087 |

A.2 Comments