

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2654 - L2 Version 3
Chandra X-Ray Center

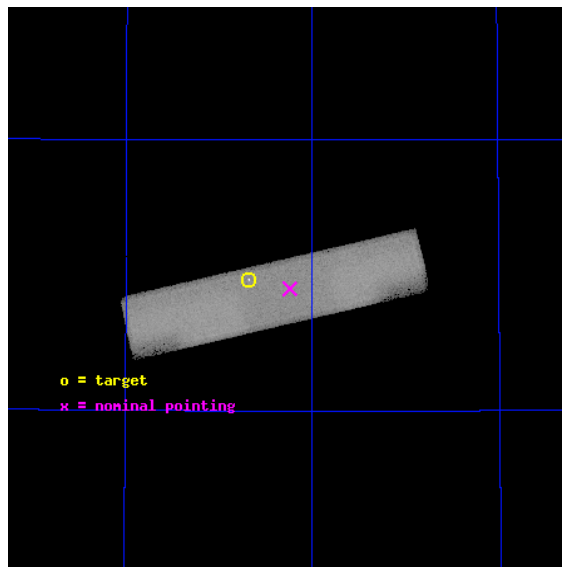
L2 Processing Date : Oct 11 2012

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1 Front

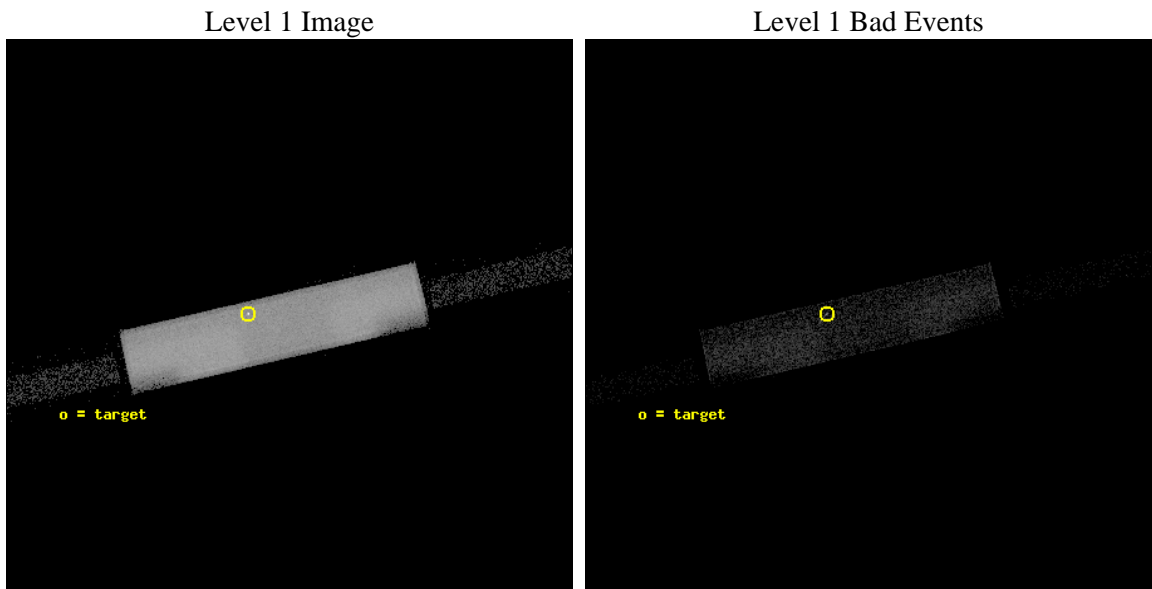
| | | |
|----------|---|---------------------------------------|
| seq_num | 290210 | Sequence number |
| obs_id | 2654 | Observation id |
| title | AO3B HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC | Proposal ti |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ARLAC | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.05988321704 | Nominal RA [deg] |
| dec_nom | 45.725750445437 | Nominal Dec [deg] |
| roll_nom | 166.93384638327 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1142.1062970459 | [s] |
| livetime | 240.73551360921 | Ontime multiplied by DTCOR |
| l2events | 203760 | 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 | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 1142.1062970459 | [s] |
| caldbver | 4.5.2 | | l1events | 278208 | Number of level 1 events |
| date | 2012-10-11T21:53:30 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

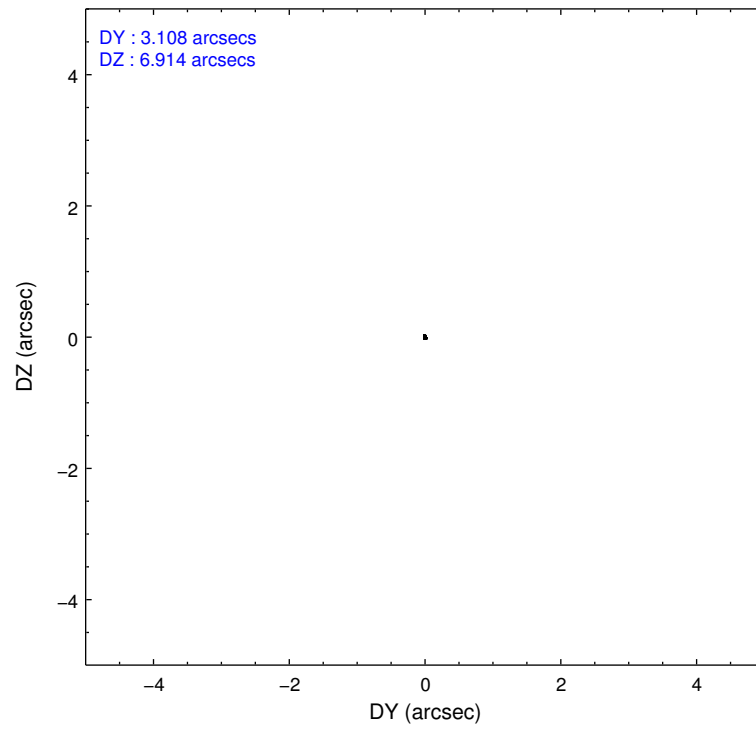
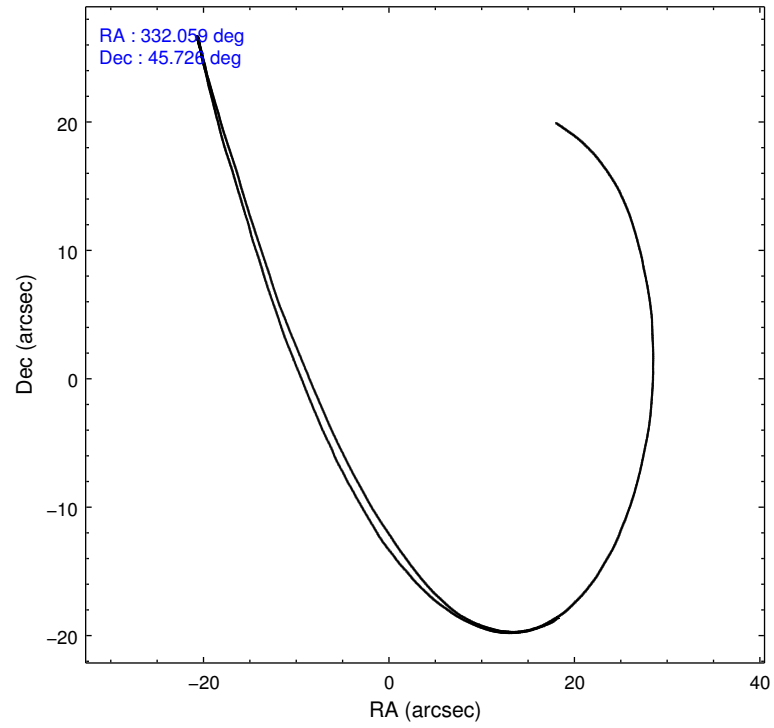
Level 1 Events

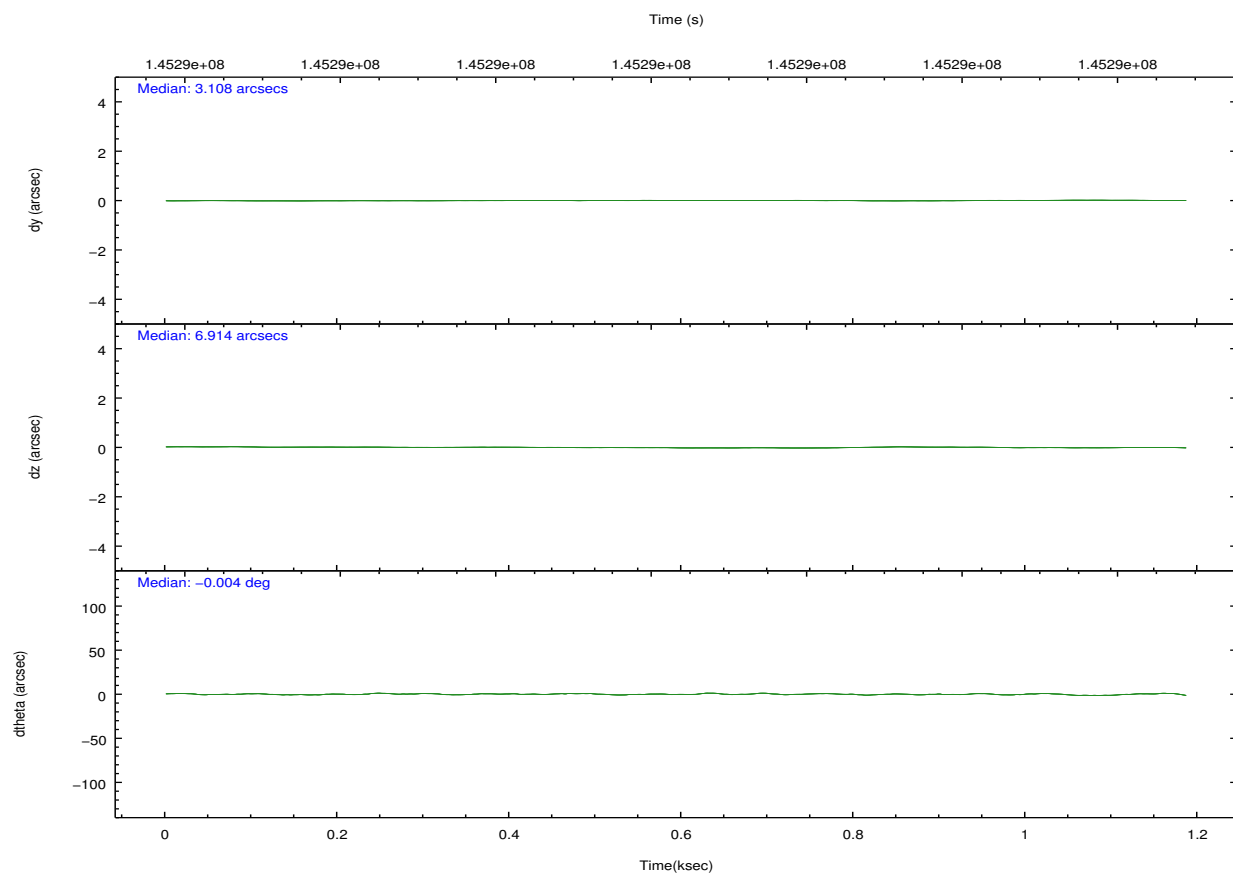
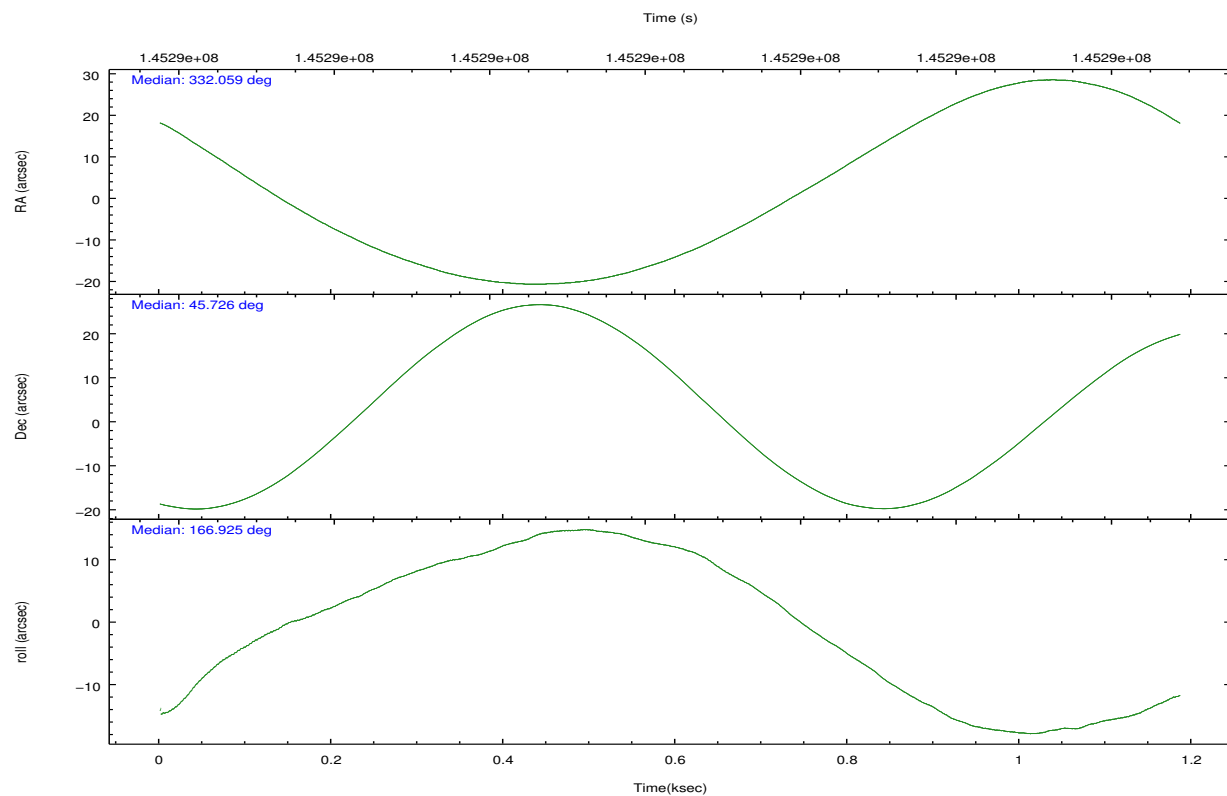
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 3480 | 271852 | 2876 |
| rejected events | 3480 | 61072 | 2876 |
| rejected % | 100% | 22% | 100% |

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 | 332.098186 | 332.0598832170407 | | | |
| [deg] Pointing Dec | 45.735900 | 45.72575044543655 | | | |
| [deg] Pointing Roll | 166.839052 | 166.9338463832723 | | | |
| [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) | 145292828.184000 | 145292452.51215 | | | |
| Observation start date | 2002-08-09T15:06:04 | 2002-08-09T15:00:52 | | | |
| [s] Observation end time (MET) | 145293828.184000 | 145293961.82471 | | | |
| Observation end date | 2002-08-09T15:22:44 | 2002-08-09T15:26:01 | | | |

2.3 Aspect



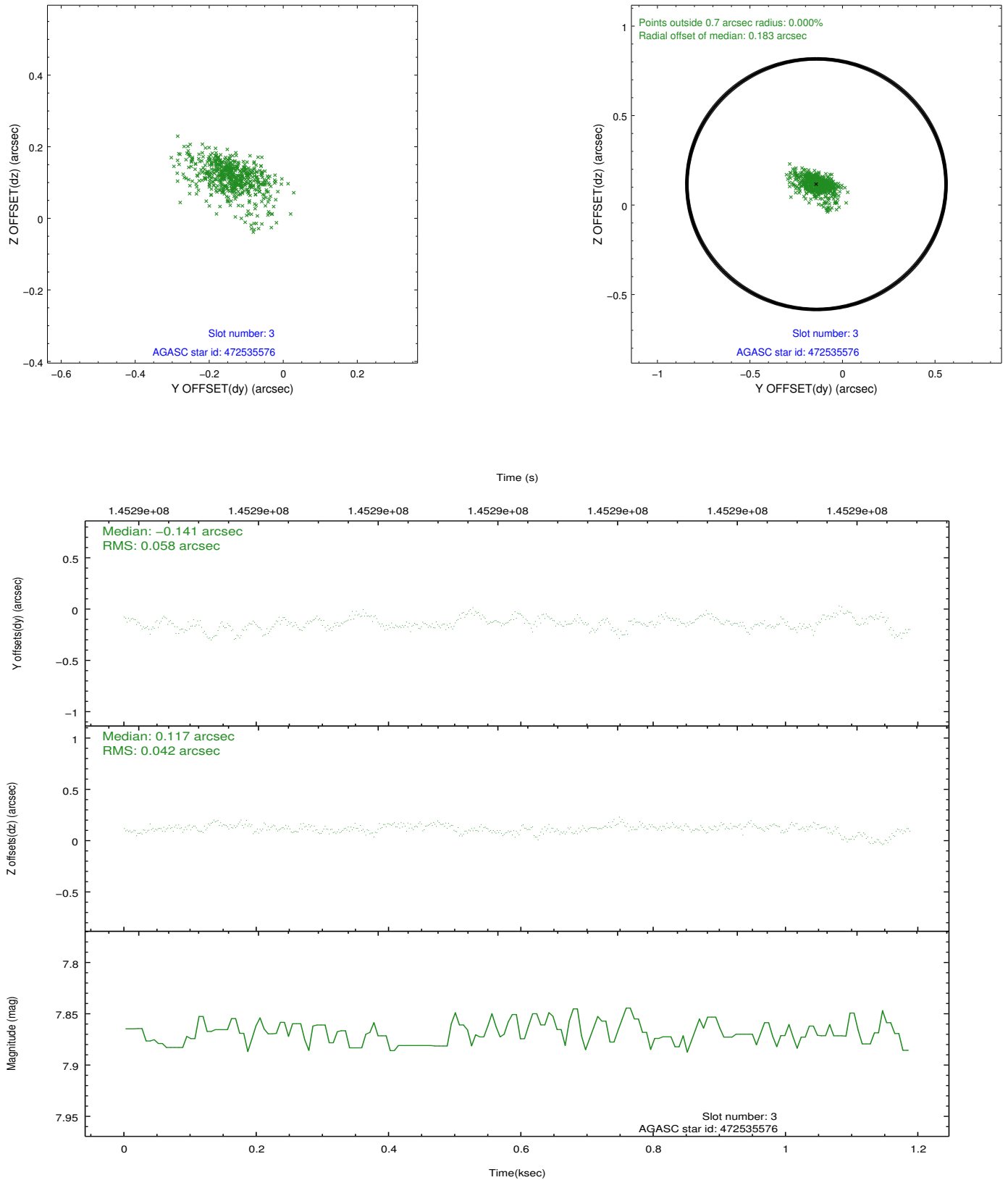


Slot Statistics

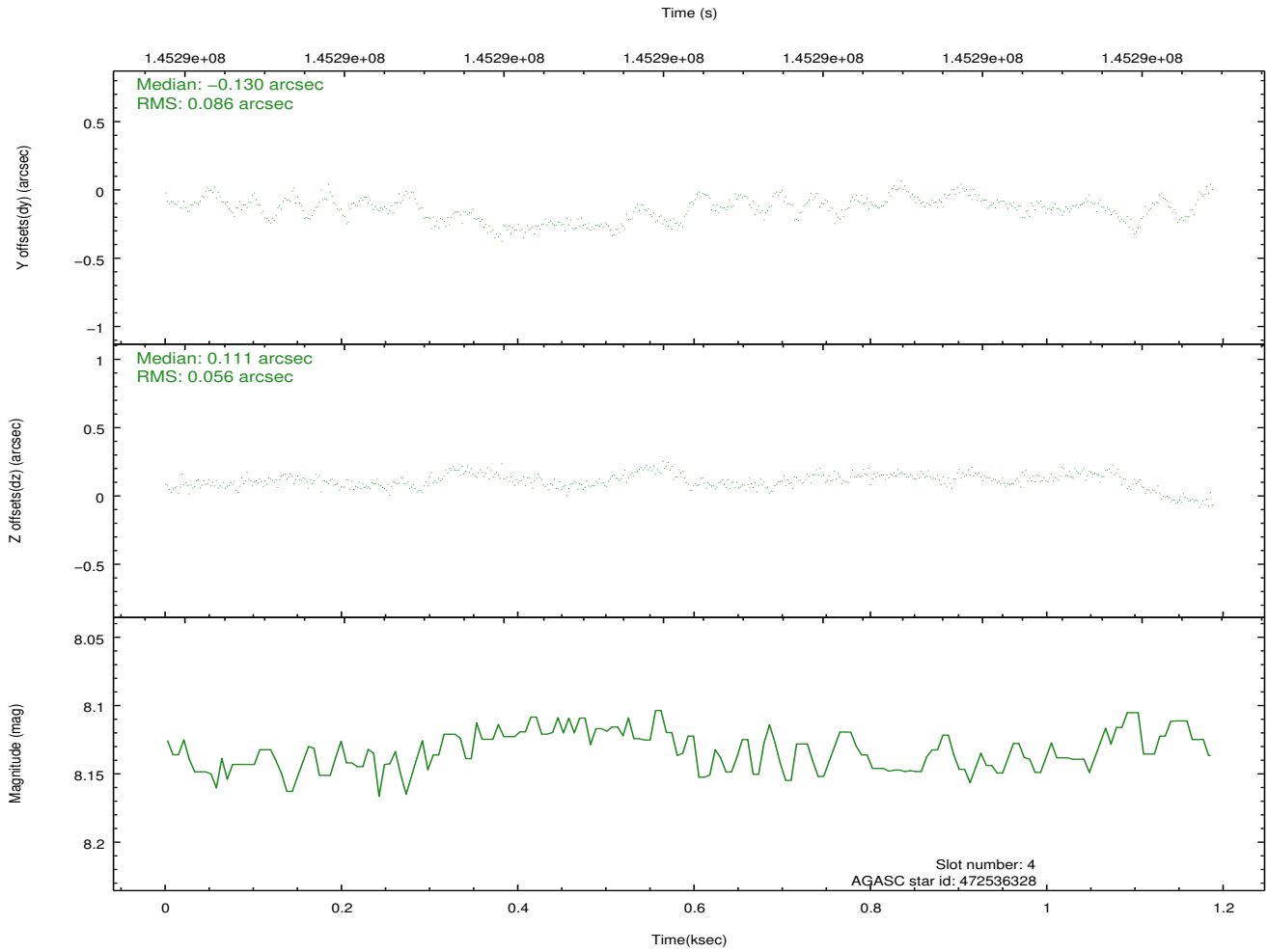
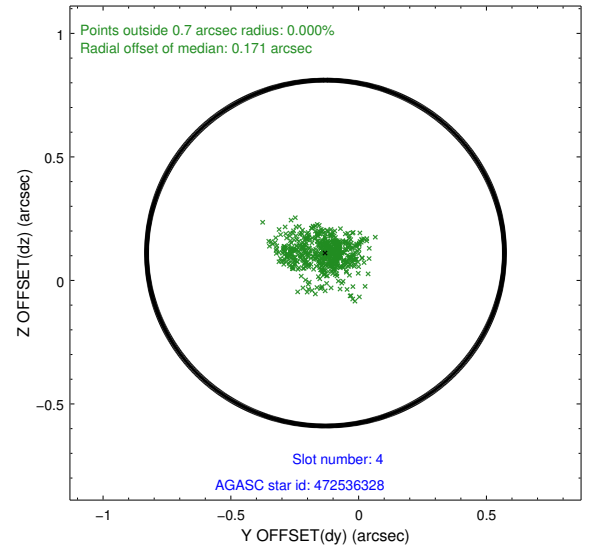
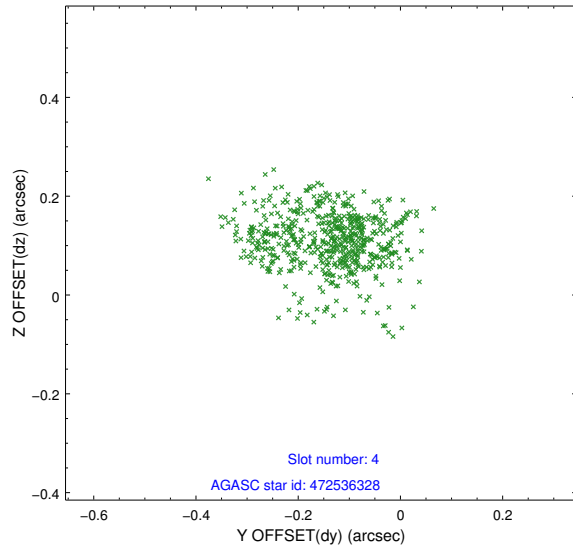
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.01 | 290 | 0.152 | -0.102 | 0.008 | 0.011 | 0.000000 | 0.000000 | -1157.13 | -455.45 |
| 1 | FID | HRC-S-2 | 7.00 | 290 | 0.090 | -0.093 | 0.005 | 0.011 | 0.000000 | 0.000000 | 1238.50 | -449.63 |
| 2 | FID | HRC-S-3 | 7.03 | 290 | 0.148 | -0.107 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1155.59 | 572.52 |
| 3 | GUIDE | 472535576 | 7.87 | 580 | -0.141 | 0.117 | 0.070 | 0.144 | 331.438373 | 46.291802 | 2055.72 | -1582.71 |
| 4 | GUIDE | 472536328 | 8.14 | 580 | -0.130 | 0.111 | 0.111 | 0.175 | 331.496671 | 46.454831 | 2047.24 | -2189.86 |
| 5 | GUIDE | 472523760 | 8.23 | 580 | -0.008 | -0.070 | 0.072 | 0.120 | 331.645363 | 45.403260 | 846.04 | 1418.30 |
| 6 | GUIDE | 472665256 | 9.01 | 580 | 0.178 | 0.151 | 0.101 | 0.163 | 332.808125 | 46.195041 | -1342.45 | -2019.15 |
| 7 | GUIDE | 472654568 | 9.45 | 579 | 0.112 | -0.299 | 0.118 | 0.252 | 332.194449 | 45.063576 | -791.89 | 2295.46 |

2.4 Star Slots

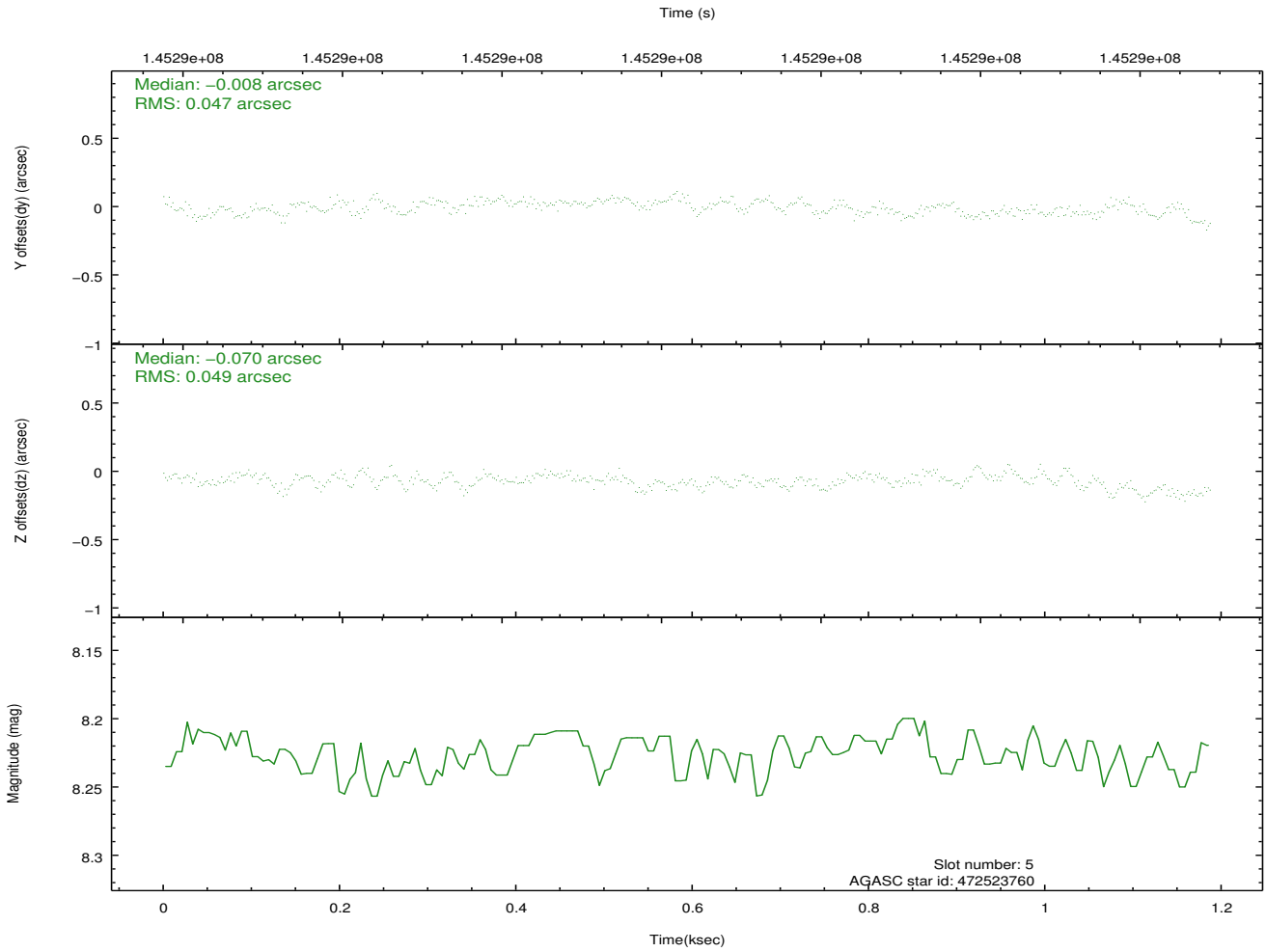
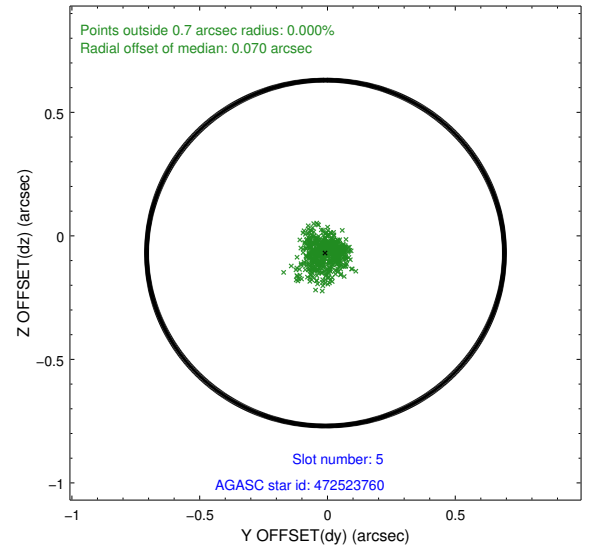
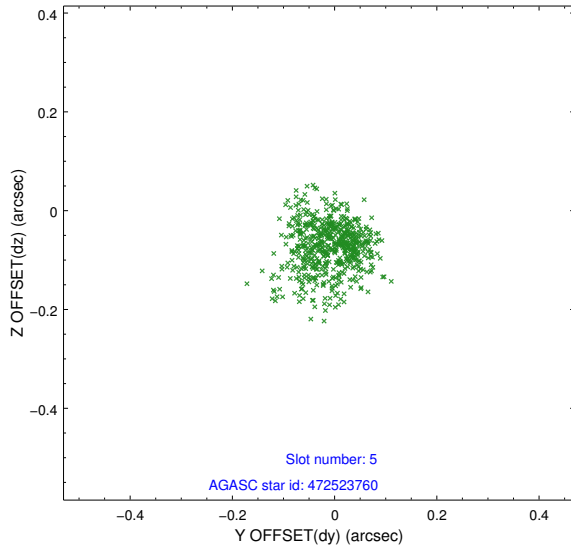
2.4.1 Slot 3



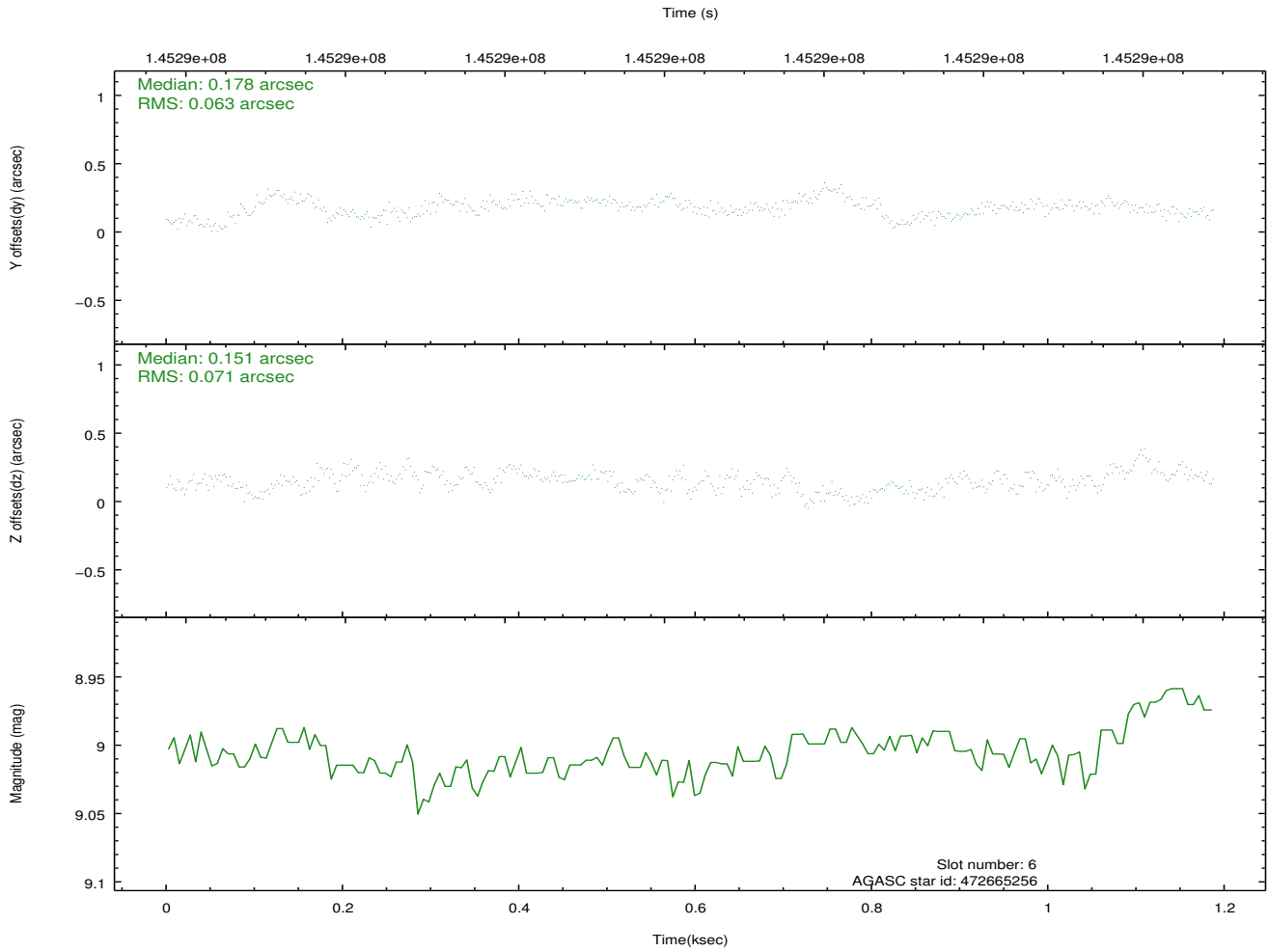
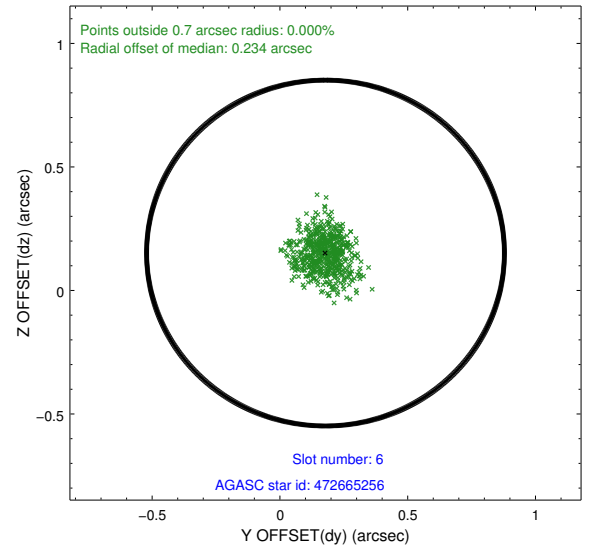
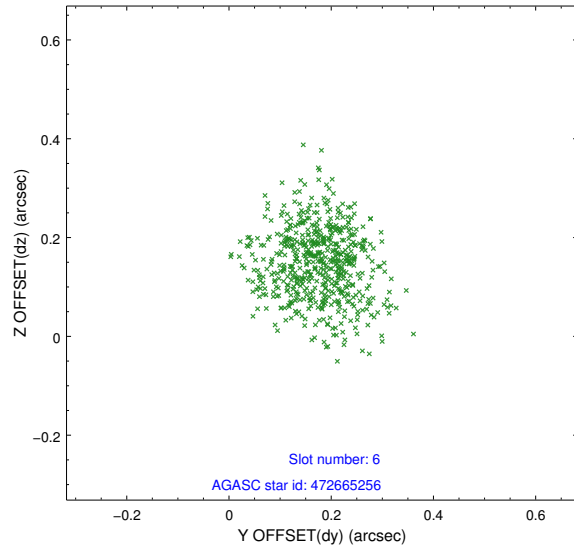
2.4.2 Slot 4



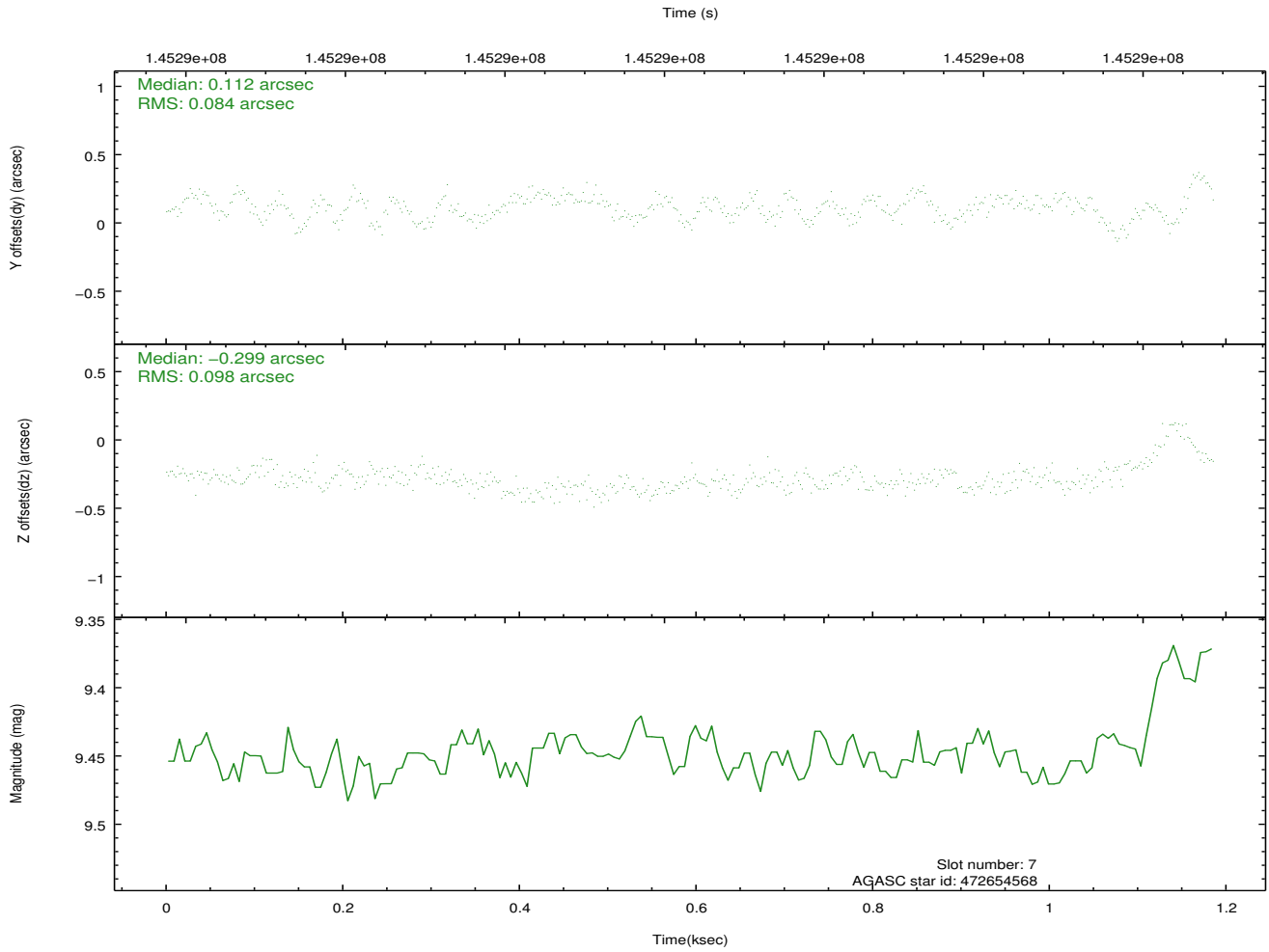
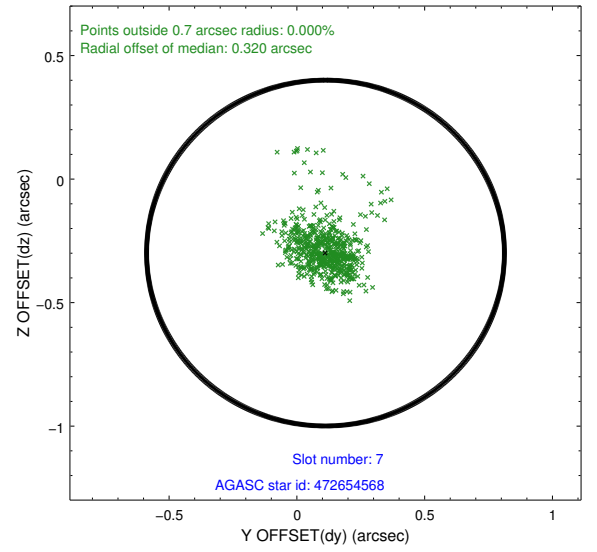
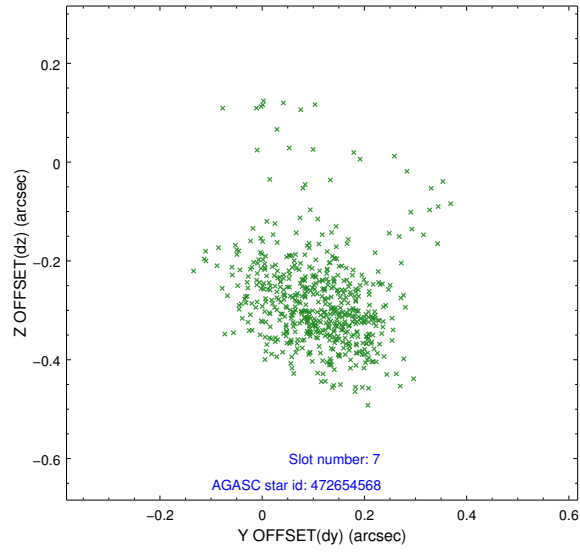
2.4.3 Slot 5



2.4.4 Slot 6

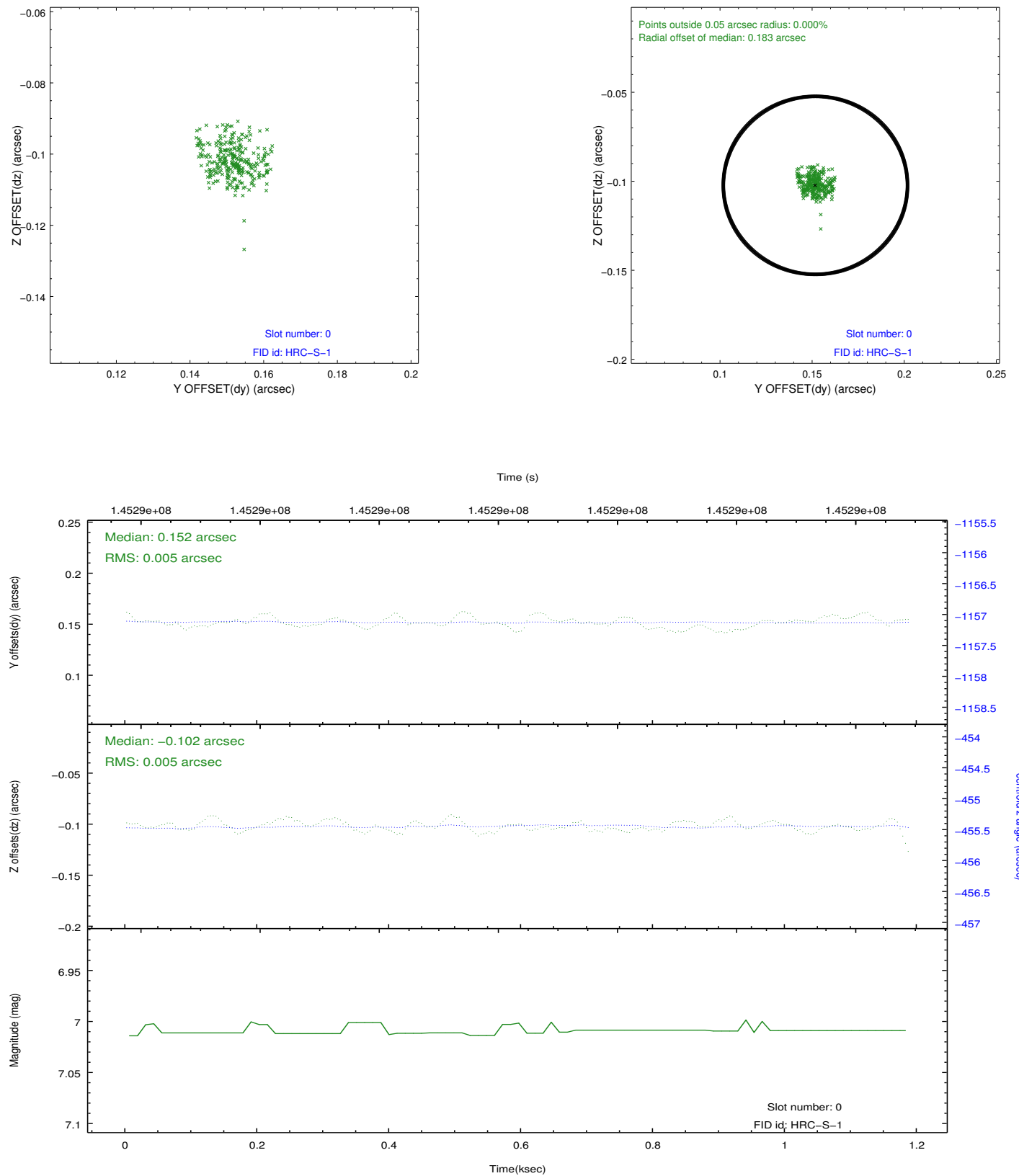


2.4.5 Slot 7

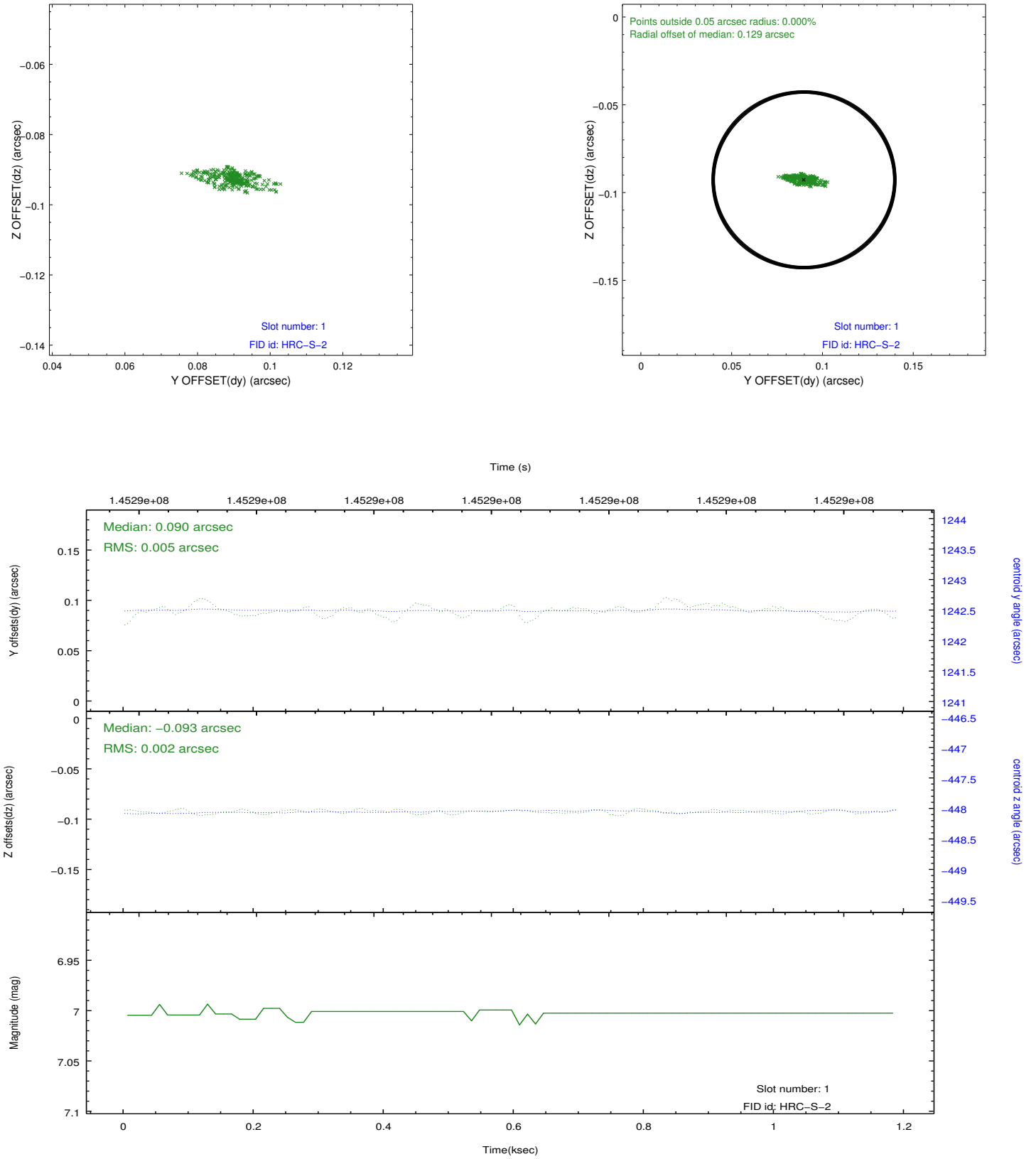


2.5 FID Slots

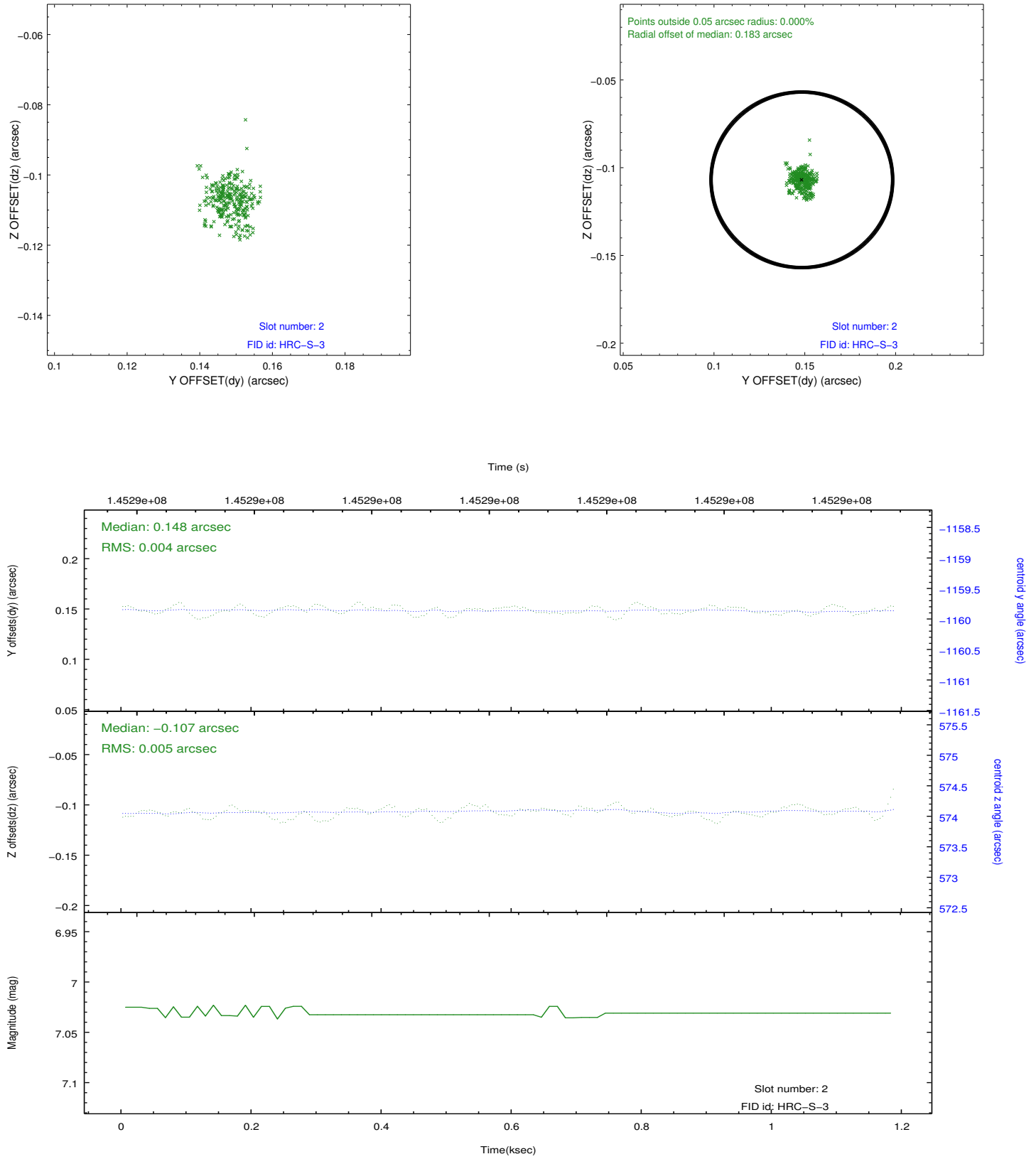
2.5.1 Slot 0



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) | 2012.10.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.186 |

A.2 Comments

Charge time for this ObsId remains at previous value of 1.186 ks, although with the current processing it would have been 1.14 ksec. Monitor constraint met.