

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 2632 - L2 Version 001
Chandra X-Ray Center

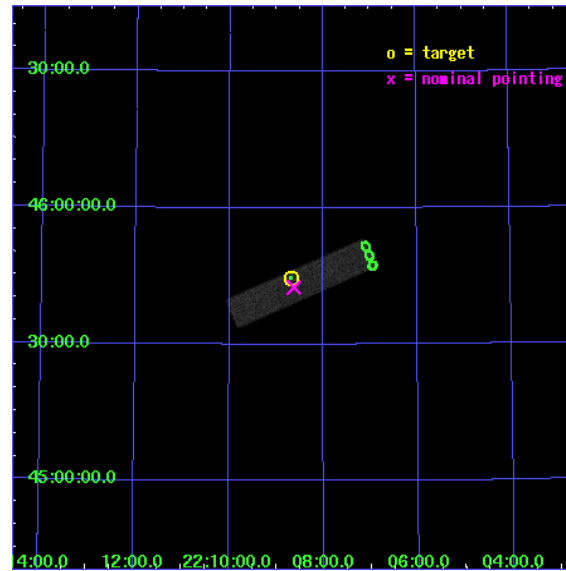
L2 Processing Date : Aug 28 2006

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Parameters | 4 |
| 2.1.3 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| 3 | Point Sources | 17 |
| A | Summary | 18 |
| A.1 | Status | 18 |
| A.2 | Comments | 18 |

1 Front

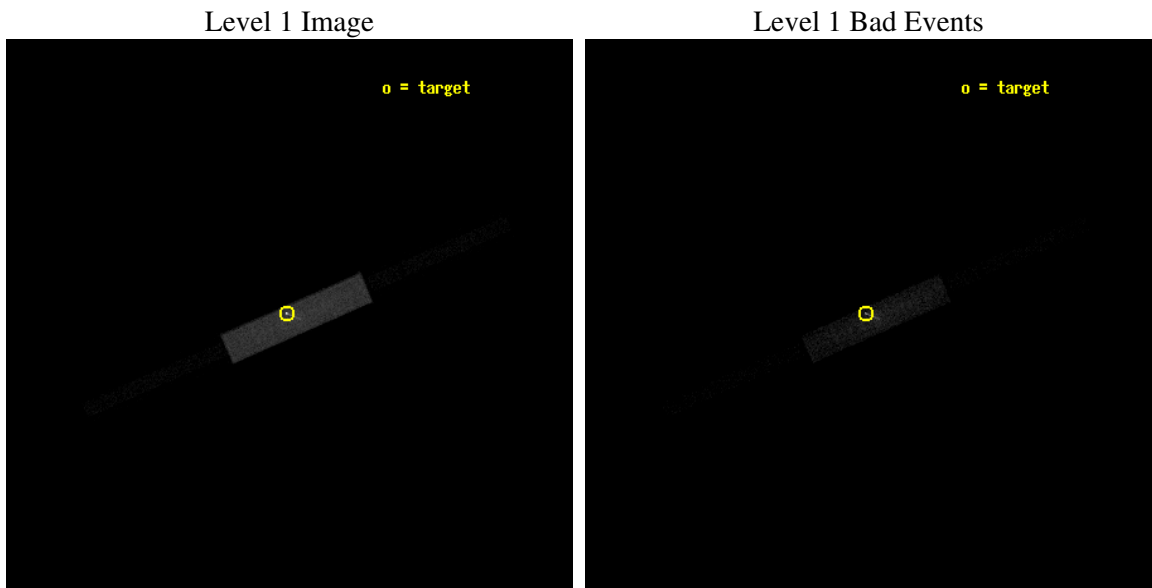
| | |
|----------|--|
| seq_num | 290188 |
| obs_id | 2632 |
| title | AO3A HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC |
| observer | Dr. CXC Calibration |
| object | ARLAC |
| ra_targ | 332.17 |
| dec_targ | 45.742306 |
| ra_nom | 332.15601780772 |
| dec_nom | 45.709337496717 |
| roll_nom | 336.29852393848 |
| revision | 2 |
| ontime | 1147.2312962264 |
| livetime | 1141.1374849887 |
| l2events | 39716 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.8.1 |
| caldbver | 3.2.3 |
| date | 2006-08-28T22:48:54 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 1000.000000 |
| ontime | 1201.5562984049 |
| l1events | 70412 |

2.1.3 Events

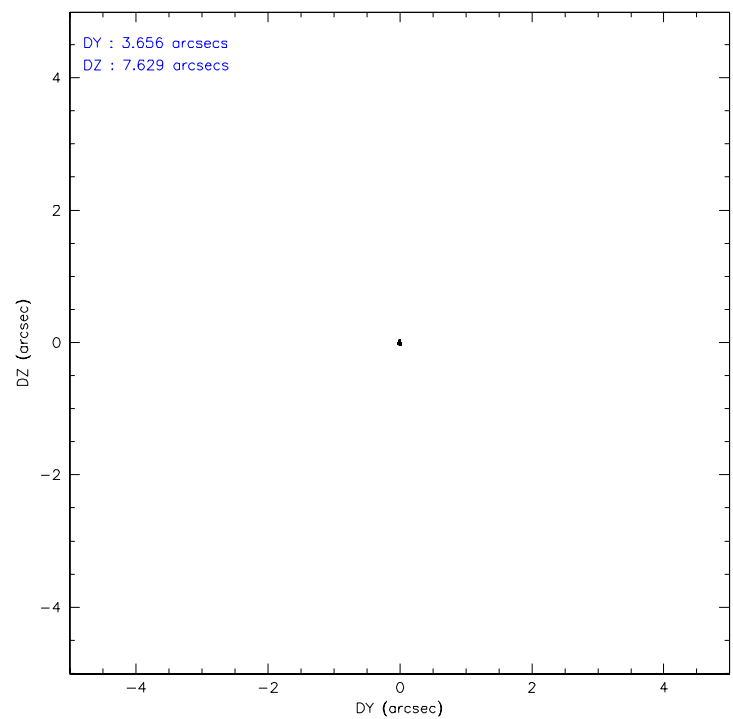
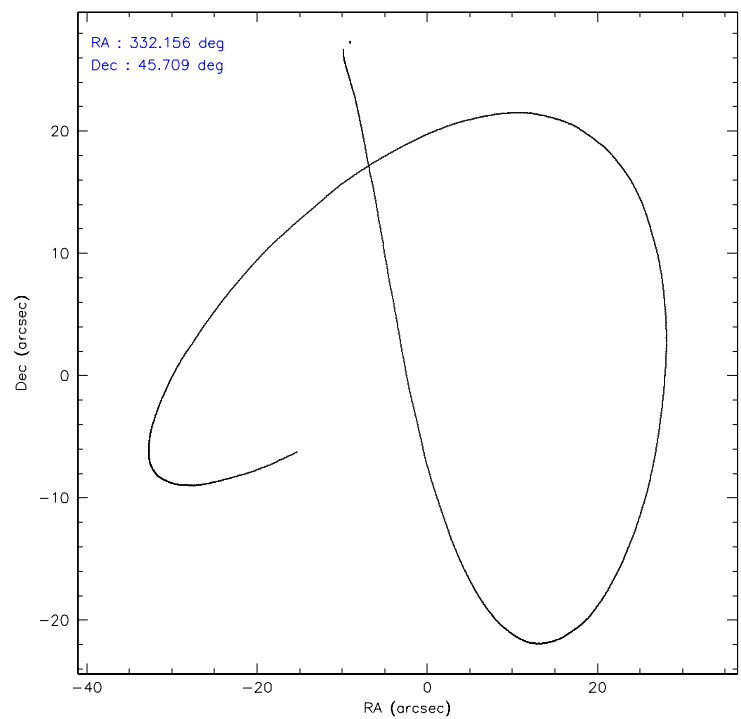
Level 1 Events

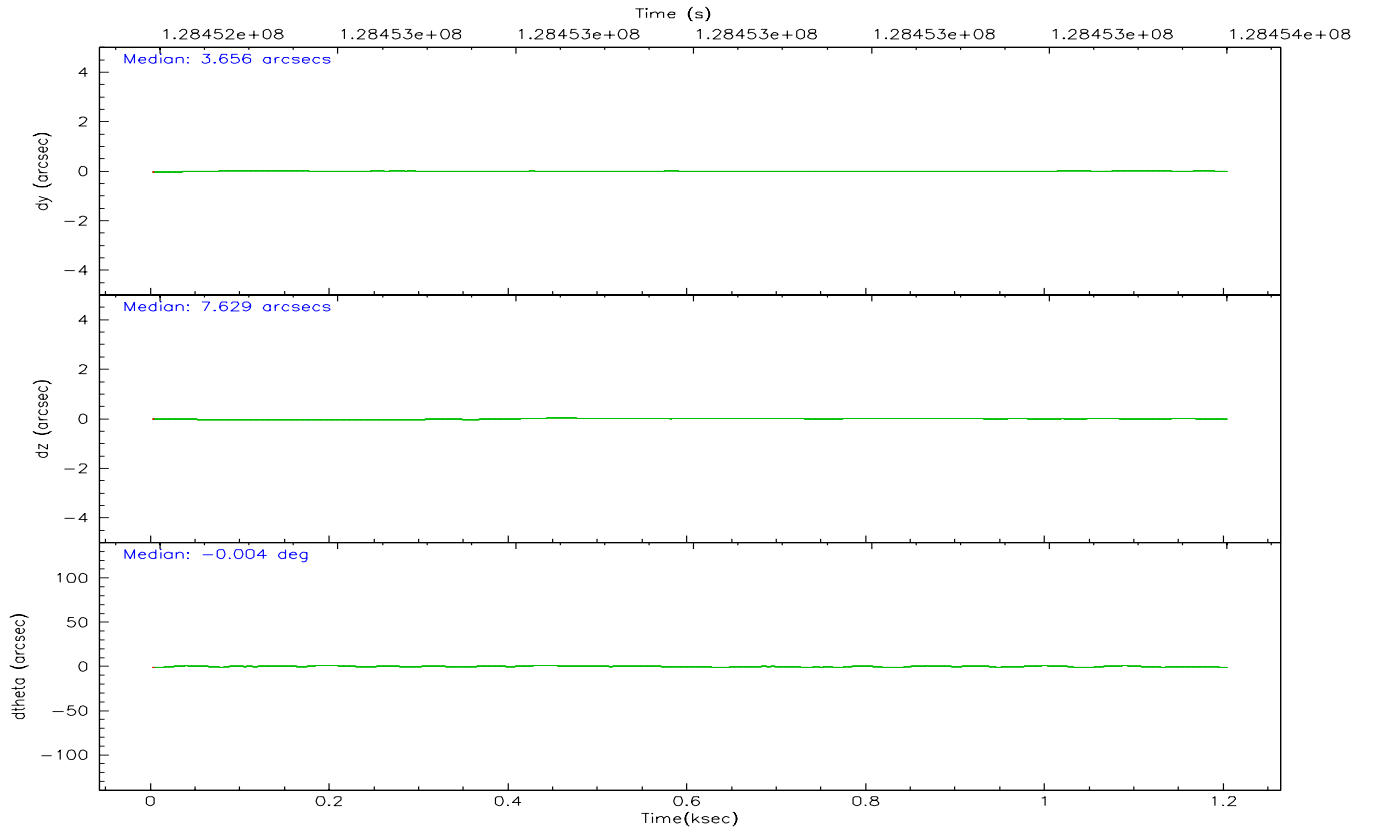
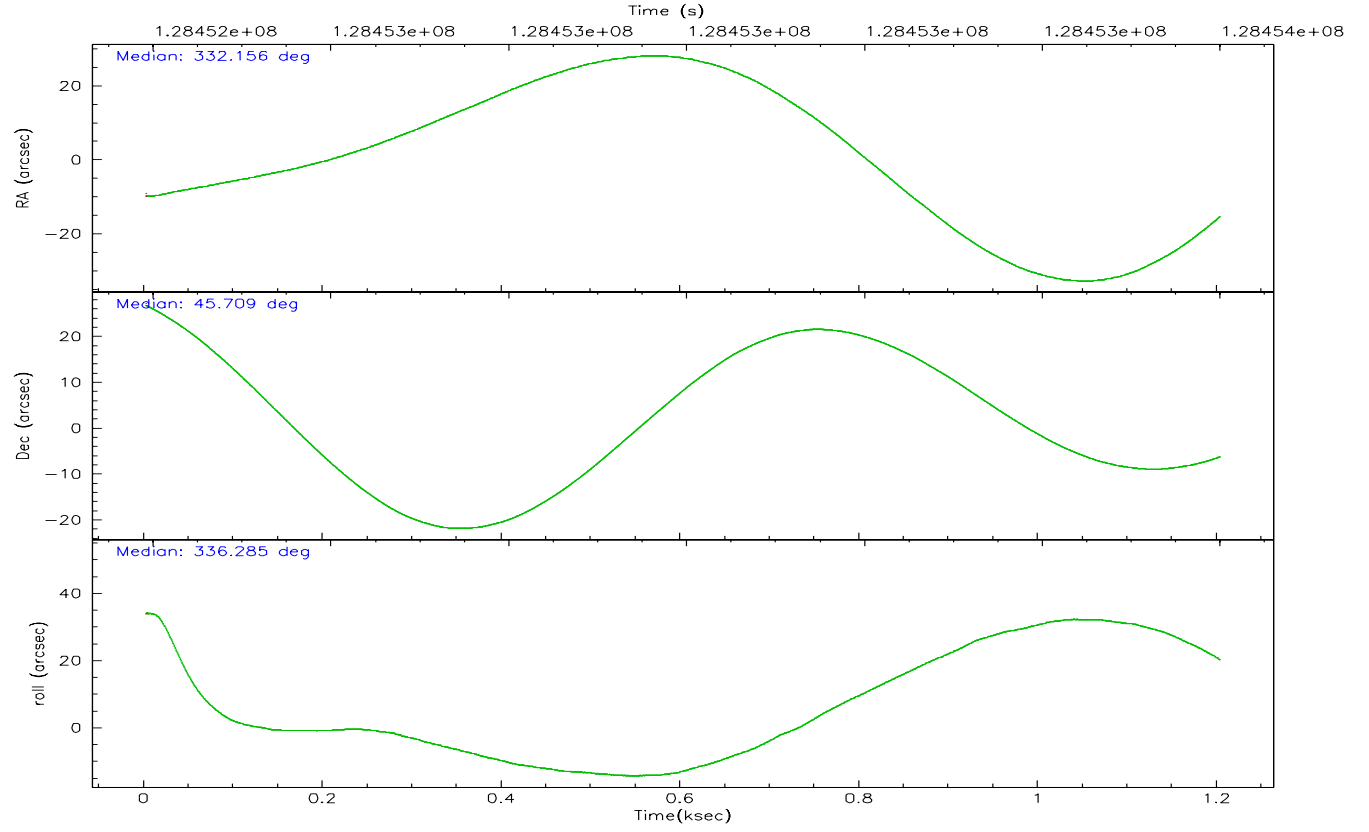
| | segment 1 | segment 2 | segment 3 |
|--------------------|----------------------|----------------------|----------------------|
| level 1 events | 1377 | 67759 | 1276 |
| rejected events | 1377 | 25305 | 1258 |
| rejected % | 100% | 37% | 98% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 6 | 6 |
| 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 | | | |
| Pointing RA | 332.116375 | 332.1560178077158 | | | |
| Pointing Dec | 45.705255 | 45.70933749671732 | | | |
| Pointing Roll | 336.259315 | 336.2985239384783 | | | |
| SIM focus pos (mm) | -1.429586 | -1.428180813131781 | | | |
| SIM defocus (mm) | 0.1037507710433287 | 0.1051558262725154 | | | |
| SIM translation stage pos (mm) | 250.455976 | 250.466033080201 | | | |
| SIM translation stage offset (mm) | 0 | -0.01005468664627074 | | | |
| Observation start time | 128452597.184000 | 128452221.50122 | | | |
| Observation start date | 2002-01-26T17:15:33 | 2002-01-26T17:10:21 | | | |
| Observation end time | 128453597.184000 | 128453731.32628 | | | |
| Observation end date | 2002-01-26T17:32:13 | 2002-01-26T17:35:31 | | | |

2.3 Aspect



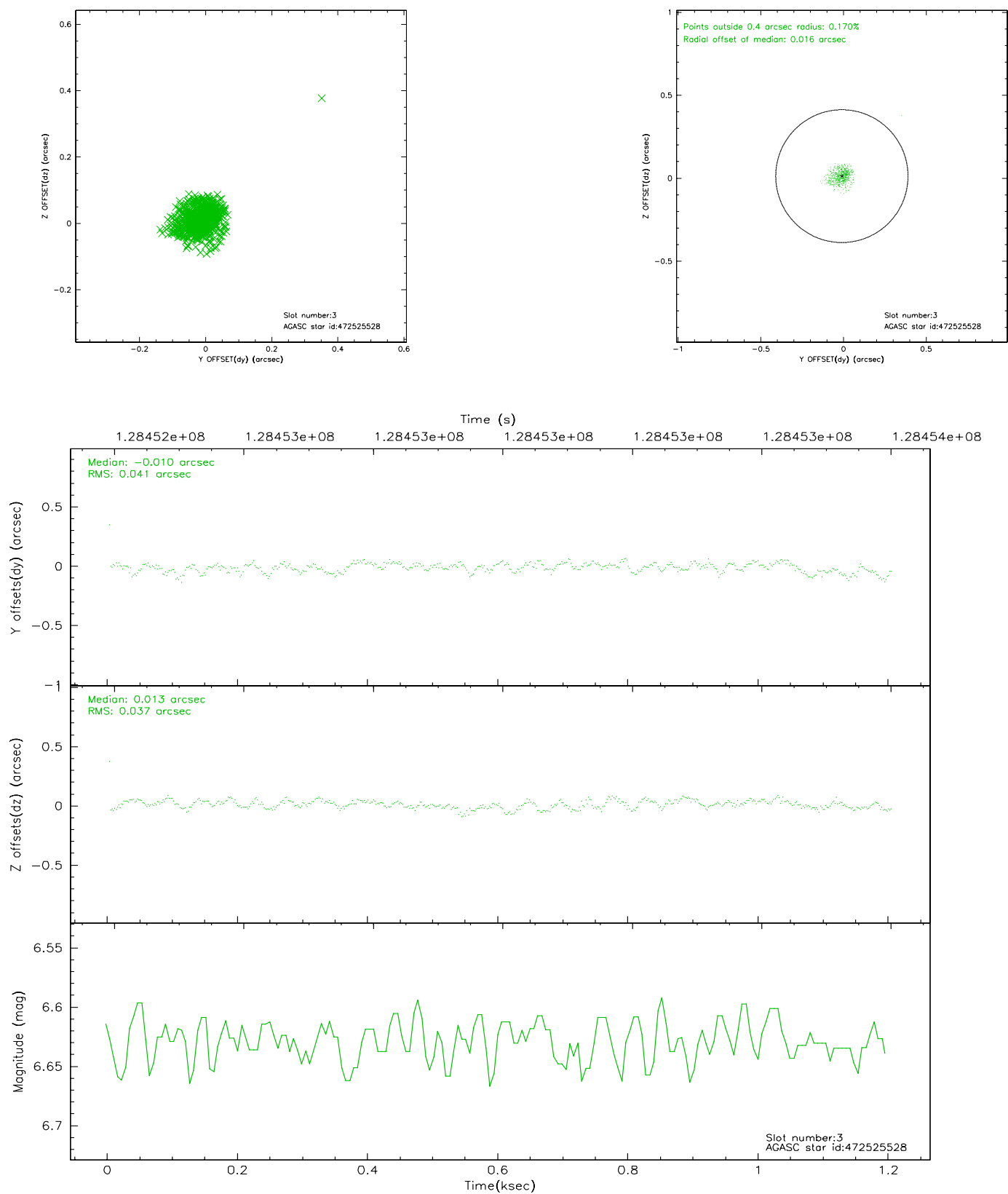


Slot Statistics

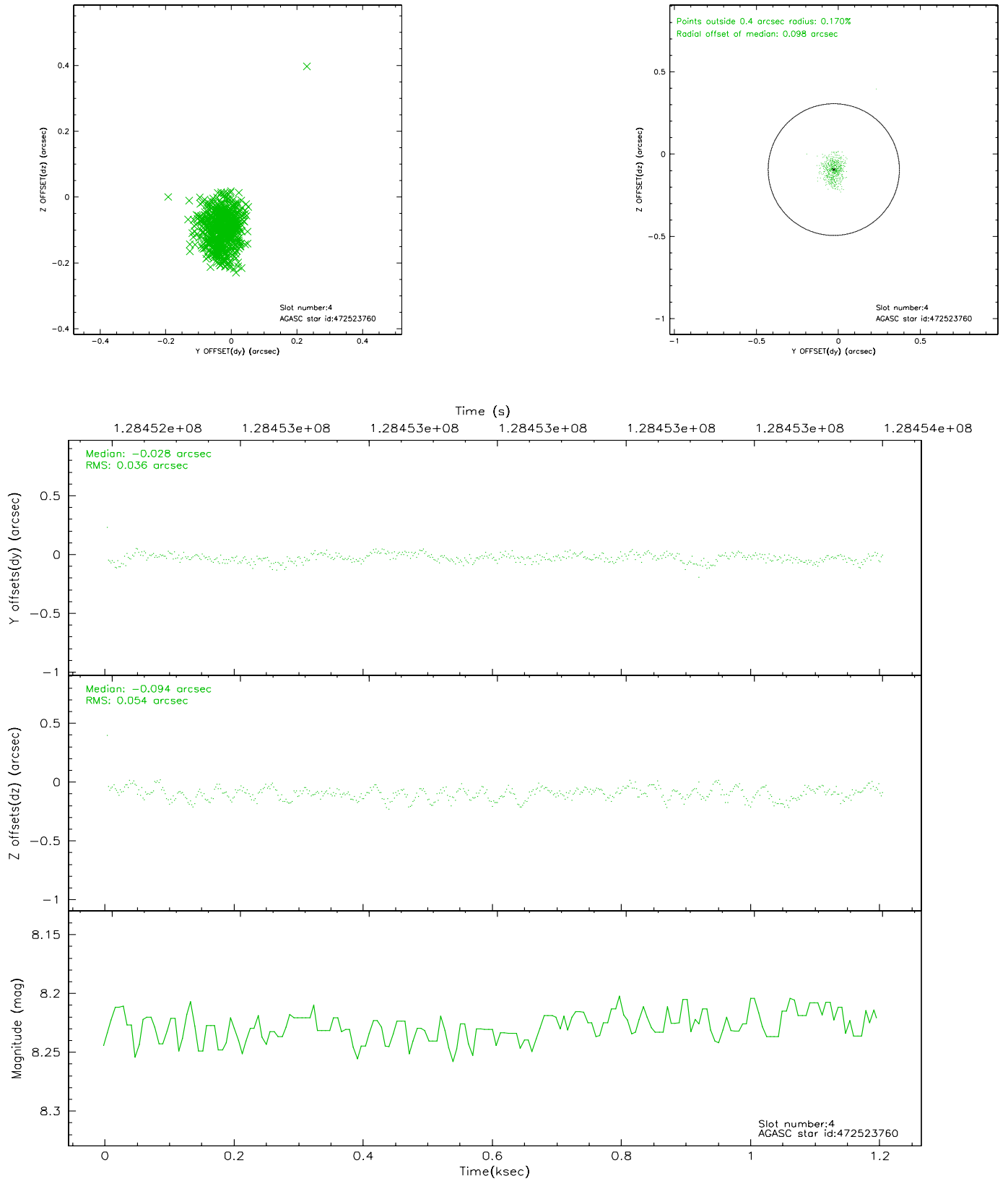
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 6.98 | 294 | 0.152 | -0.085 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1157.69 | -456.17 |
| 1 | FID | HRC-S-2 | 6.98 | 294 | 0.076 | -0.087 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1237.98 | -450.33 |
| 2 | FID | HRC-S-3 | 7.01 | 294 | 0.161 | -0.130 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1156.20 | 571.79 |
| 3 | GUIDE | 472525528 | 6.63 | 587 | -0.010 | 0.013 | 0.055 | 0.087 | 331.551102 | 45.248694 | -650.92 | -2075.03 |
| 4 | GUIDE | 472523760 | 8.23 | 587 | -0.028 | -0.094 | 0.065 | 0.107 | 331.645363 | 45.403260 | -653.89 | -1473.27 |
| 5 | GUIDE | 472665256 | 9.01 | 587 | -0.053 | -0.033 | 0.089 | 0.146 | 332.808125 | 46.195041 | 863.94 | 2314.30 |
| 6 | GUIDE | 472659832 | 9.47 | 587 | 0.097 | 0.100 | 0.094 | 0.146 | 332.780399 | 46.098139 | 946.84 | 1974.40 |
| 7 | GUIDE | 472654568 | 9.44 | 583 | -0.006 | 0.027 | 0.086 | 0.143 | 332.194449 | 45.063576 | 1114.22 | -2029.04 |

2.4 Star Slots

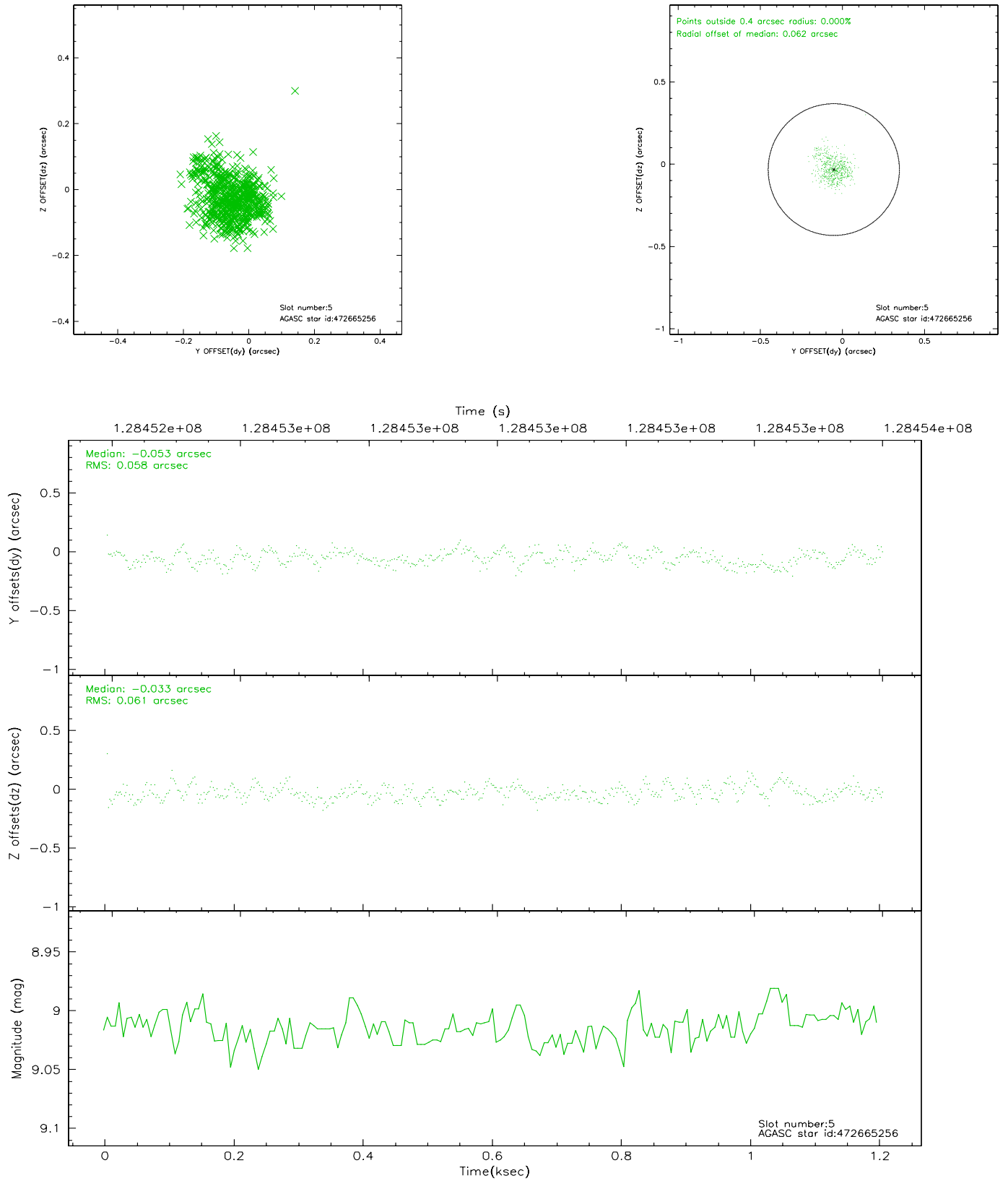
2.4.1 Slot 3



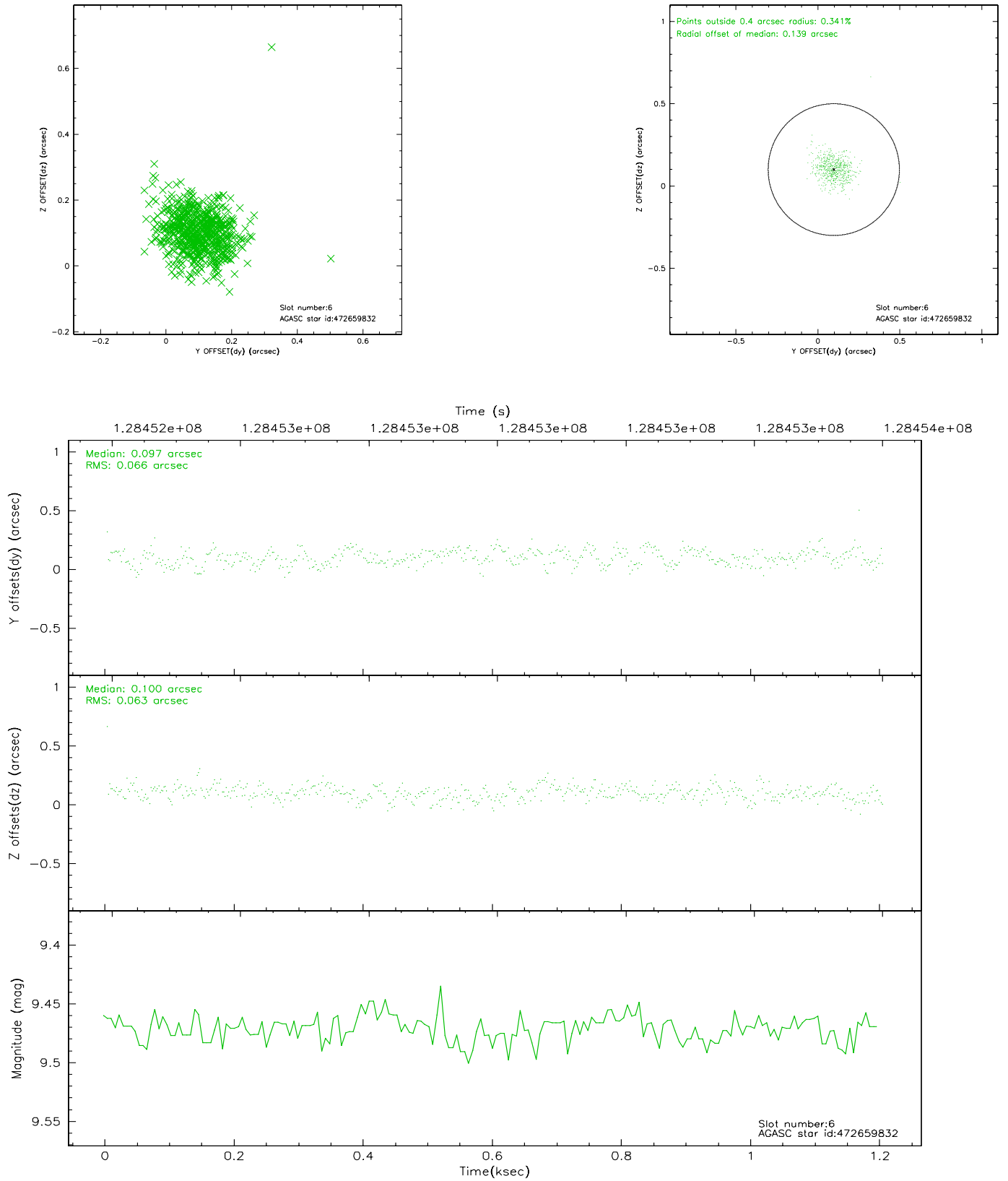
2.4.2 Slot 4



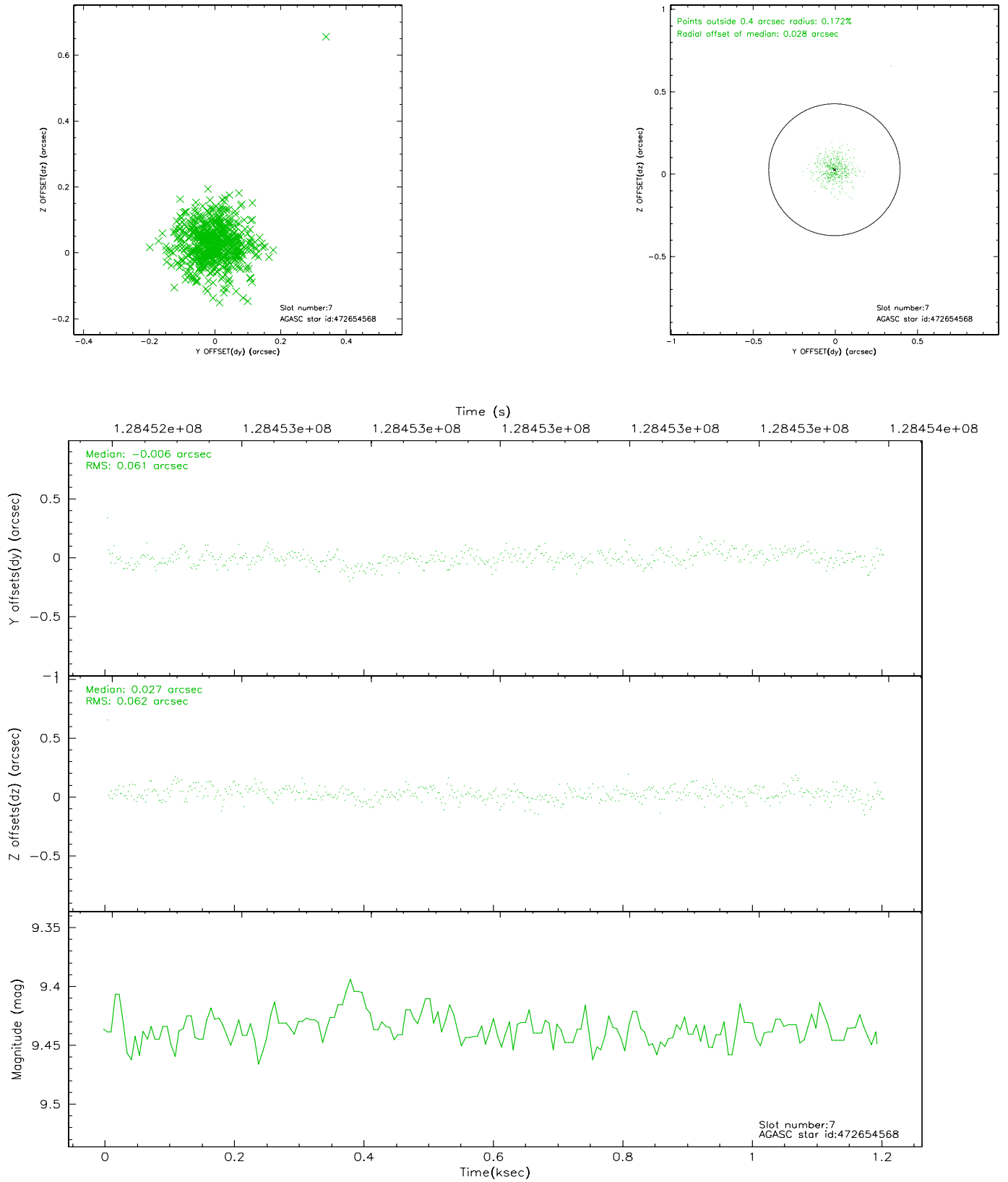
2.4.3 Slot 5



2.4.4 Slot 6

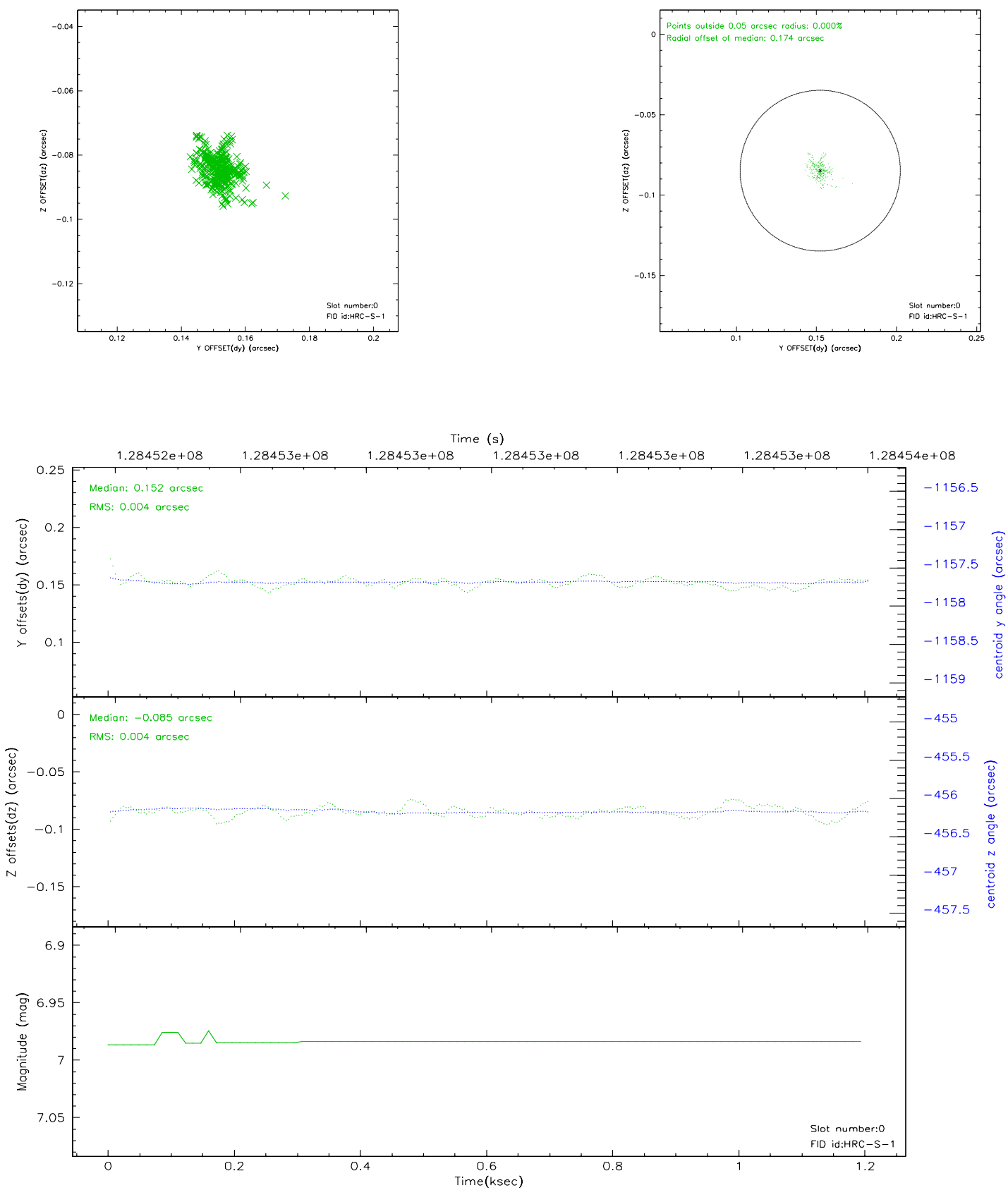


2.4.5 Slot 7

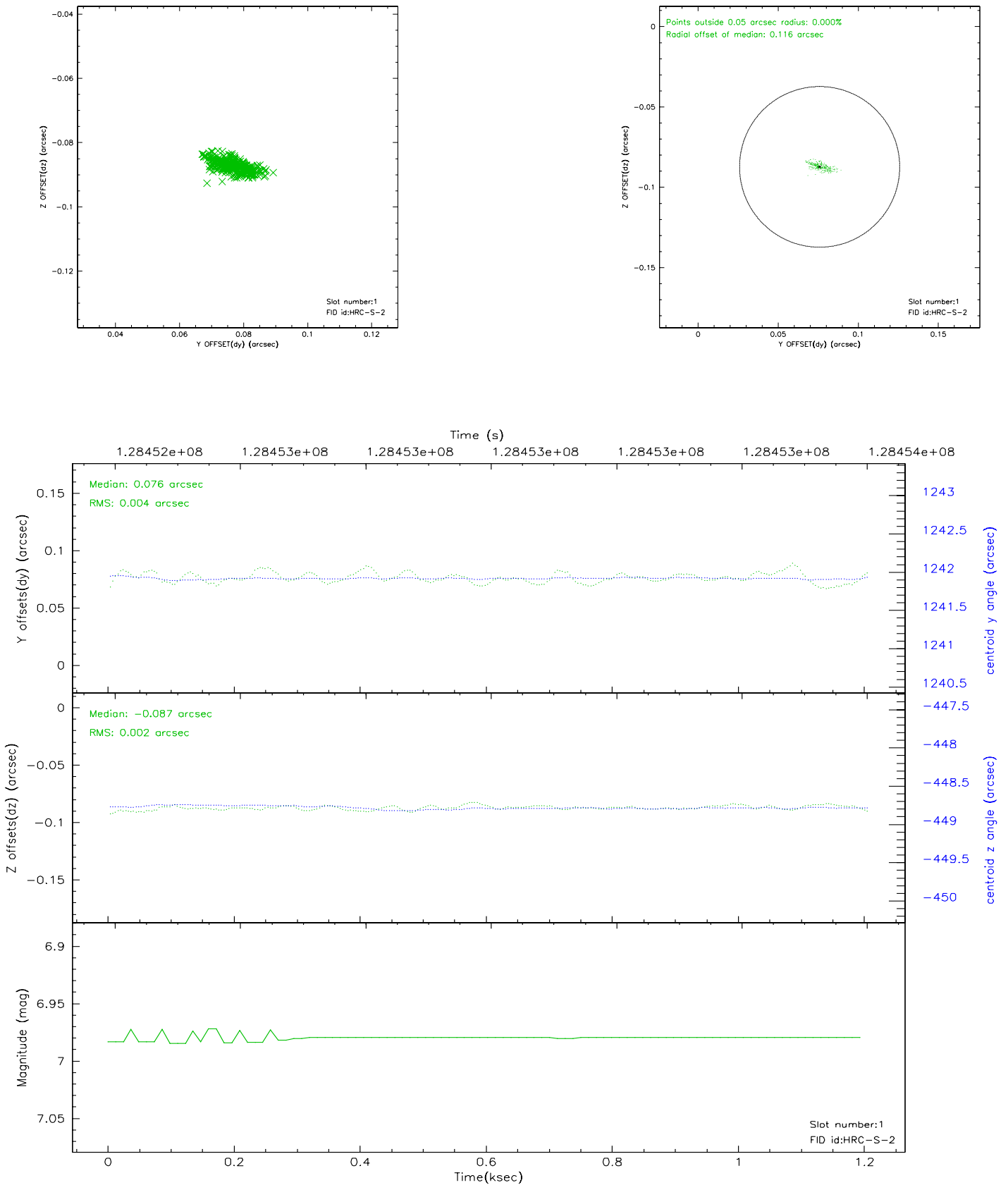


2.5 FID Slots

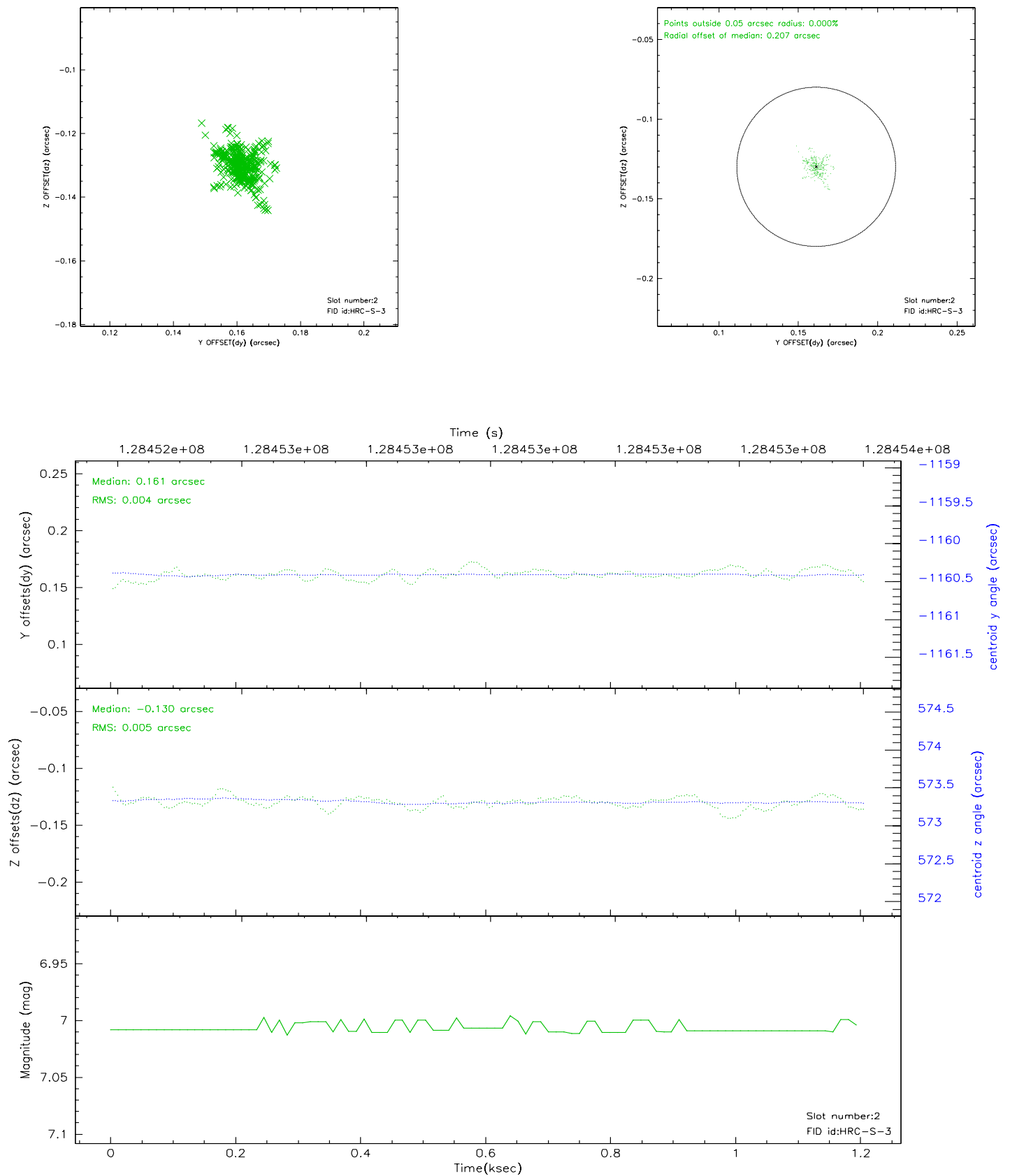
2.5.1 Slot 0



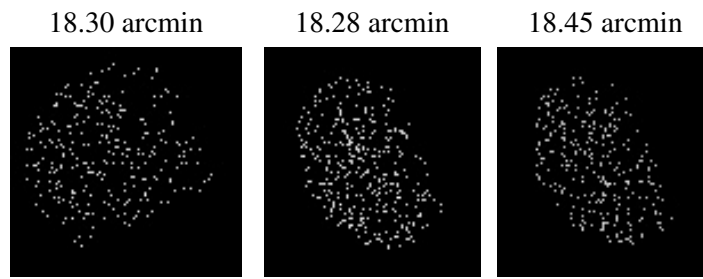
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.08.29 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.2 |

A.2 Comments

Monitor constraint met.