

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1400 - L2 Version 4

Chandra X-Ray Center

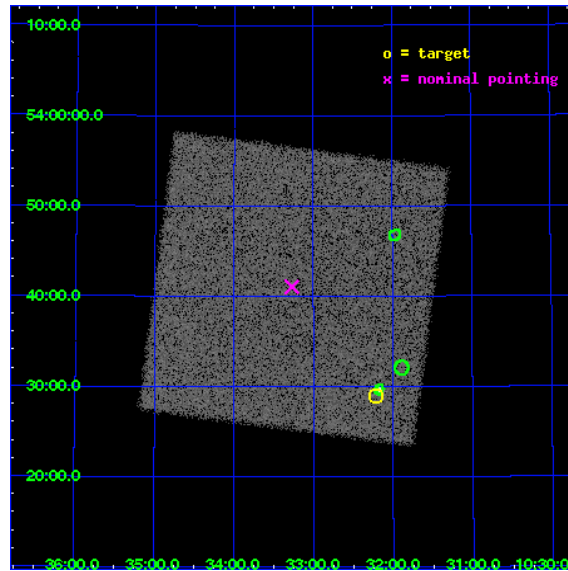
L2 Processing Date : Nov 20 2009

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

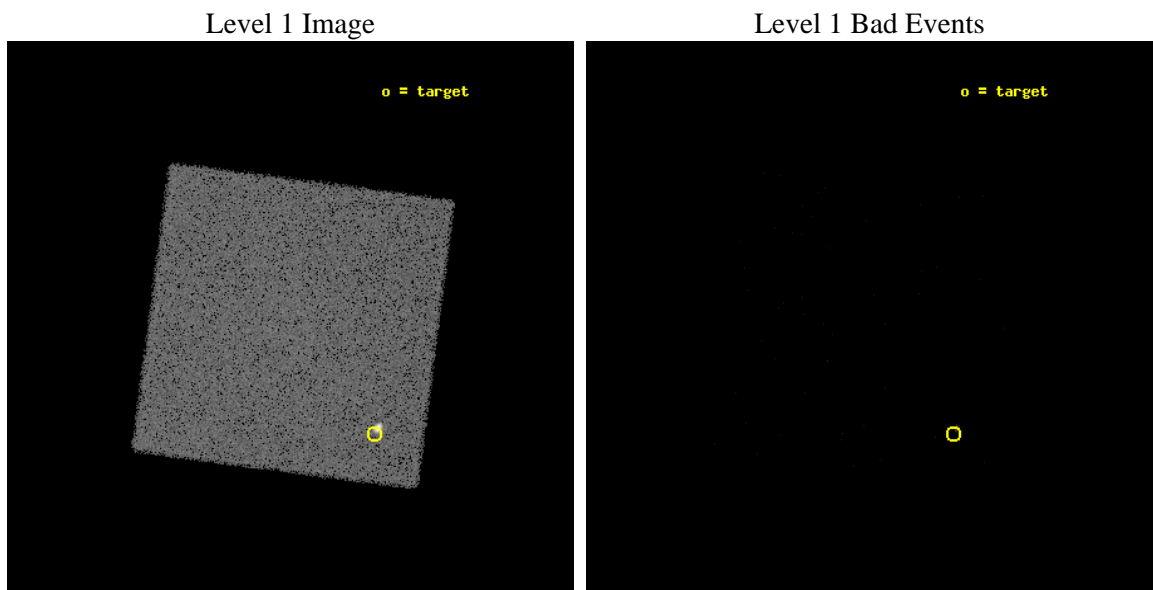
| | | |
|----------|----------------------------------|---------------------------------|
| seq_num | 280350 | Sequence number |
| obs_id | 1400 | Observation id |
| title | OFF-AXIS PSF USING 2RE J1032+532 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | 2REJ1032+532,YOFF=15 | Source name |
| ra_targ | 158.054167 | Observer's specified target RA |
| dec_targ | 53.483333 | Observer's specified target Dec |
| ra_nom | 158.31724934976 | Nominal RA |
| dec_nom | 53.684417214835 | Nominal Dec |
| roll_nom | 52.464913092171 | Nominal Roll |
| revision | 4 | Processing version of data |
| ontime | 3275.1313681379 | [s] |
| livetime | 3254.1112856462 | Ontime multiplied by DTCOR |
| l2events | 101258 | 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 | 3000.000000 | Scheduled observation exposure time |
| ascdsver | 8.1.1 | Processing system revision | ontime | 3275.1313681379 | [s] |
| caldbver | 4.1.4 | | l1events | 156506 | Number of level 1 events |
| date | 2009-11-20T17:21:34 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

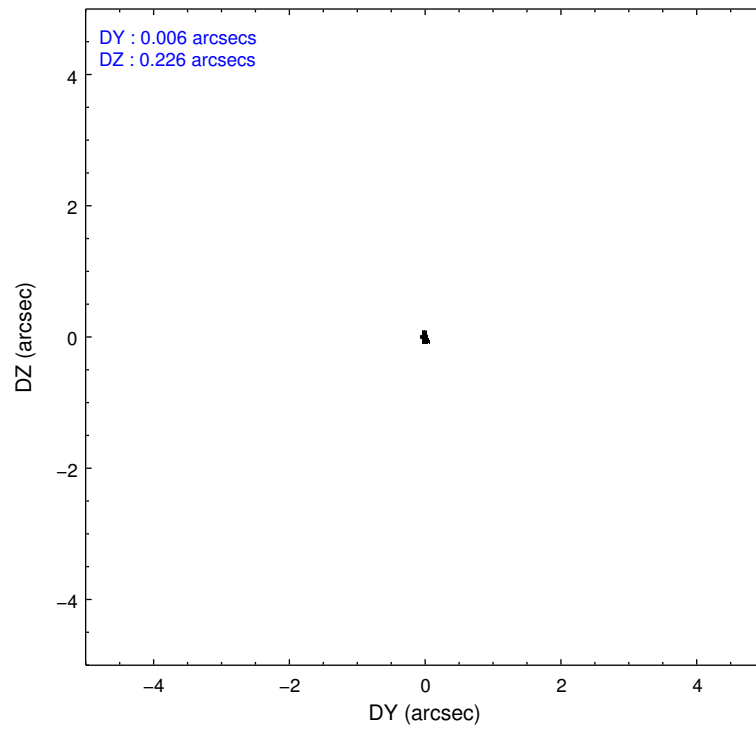
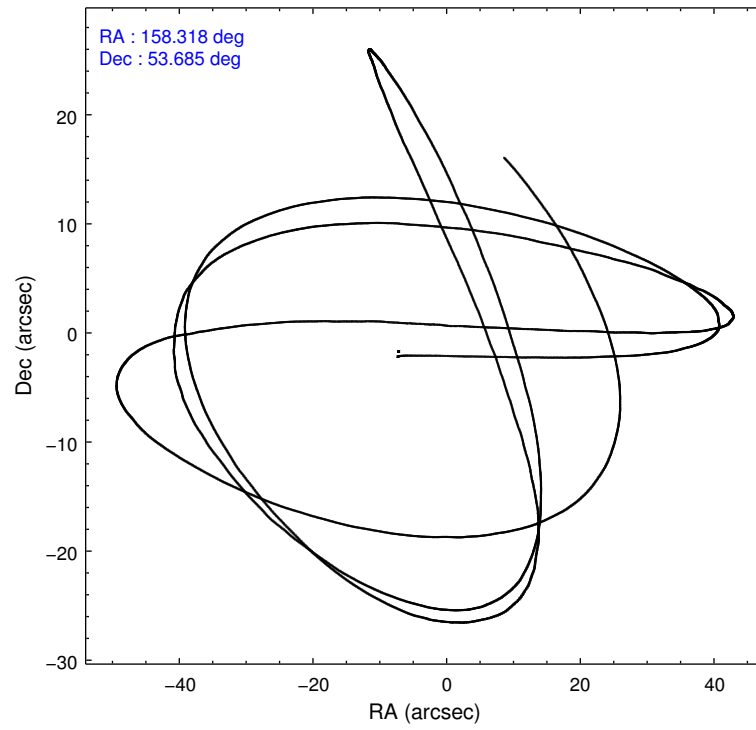
Level 1 Events

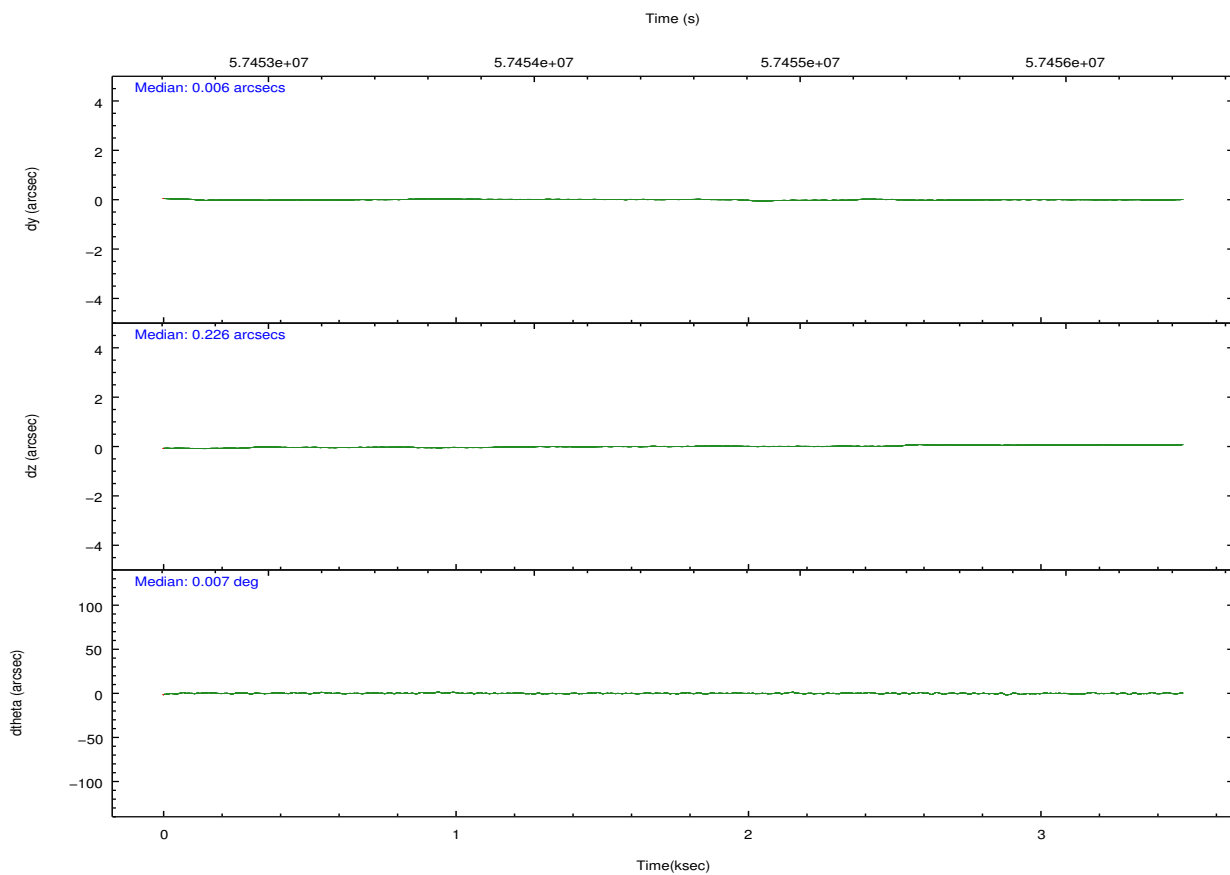
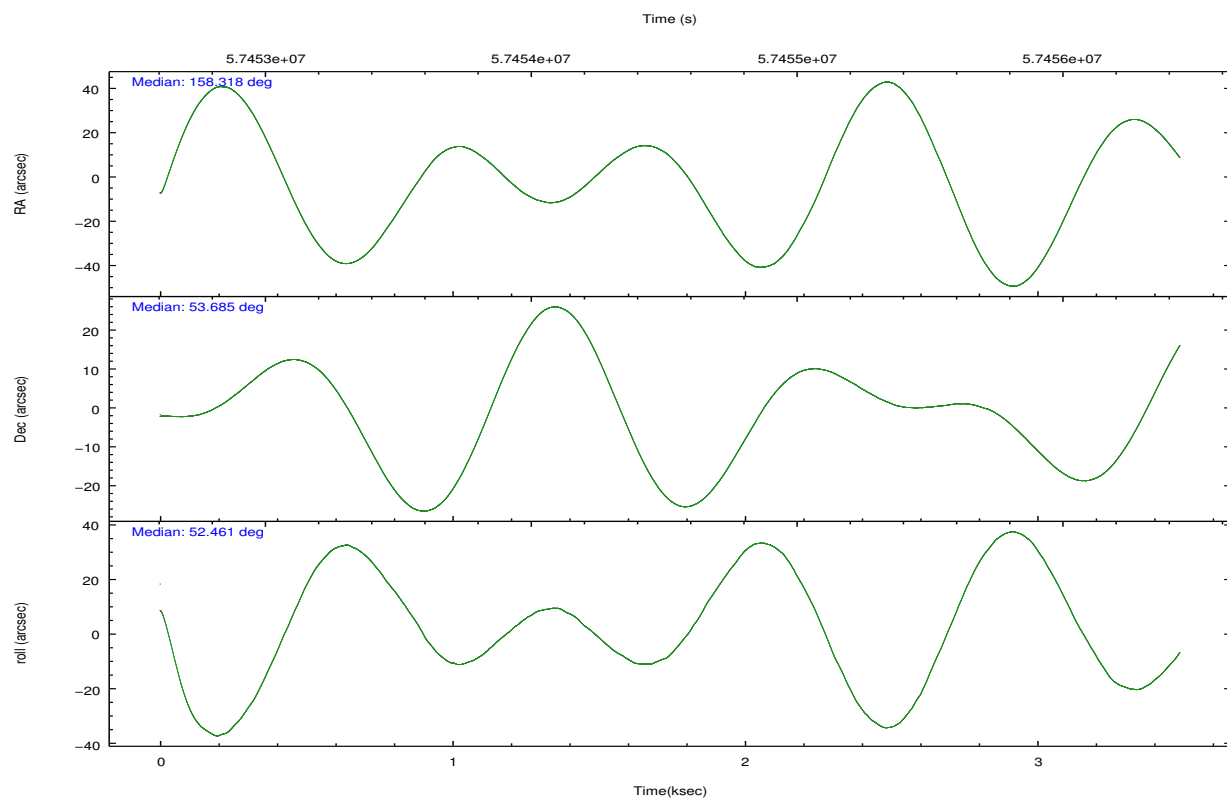
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 156506 |
| rejected events | 2405 |
| rejected % | 1% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|------------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 6 | 6 |
| Detector | HRC-I | HRC-I | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| Pointing RA | 158.310701 | 158.3172493497572 | | | |
| Pointing Dec | 53.657255 | 53.68441721483488 | | | |
| Pointing Roll | 52.565691 | 52.46491309217101 | | | |
| SIM focus pos (mm) | -1.040293 | -1.038866356238299 | | | |
| SIM defocus (mm) | 0 | 0.001426264420575141 | | | |
| SIM translation stage pos (mm) | 126.985494 | 126.9854943052878 | | | |
| SIM translation stage offset (mm) | 0 | -5.413686238853188e-06 | | | |
| Observation start time | 57453266.184000 | 57452600.744678 | | | |
| Observation start date | 1999-10-27T23:13:22 | 1999-10-27T23:03:20 | | | |
| Observation end time | 57456266.184000 | 57456400.419816 | | | |
| Observation end date | 1999-10-28T00:03:22 | 1999-10-28T00:06:40 | | | |

2.3 Aspect



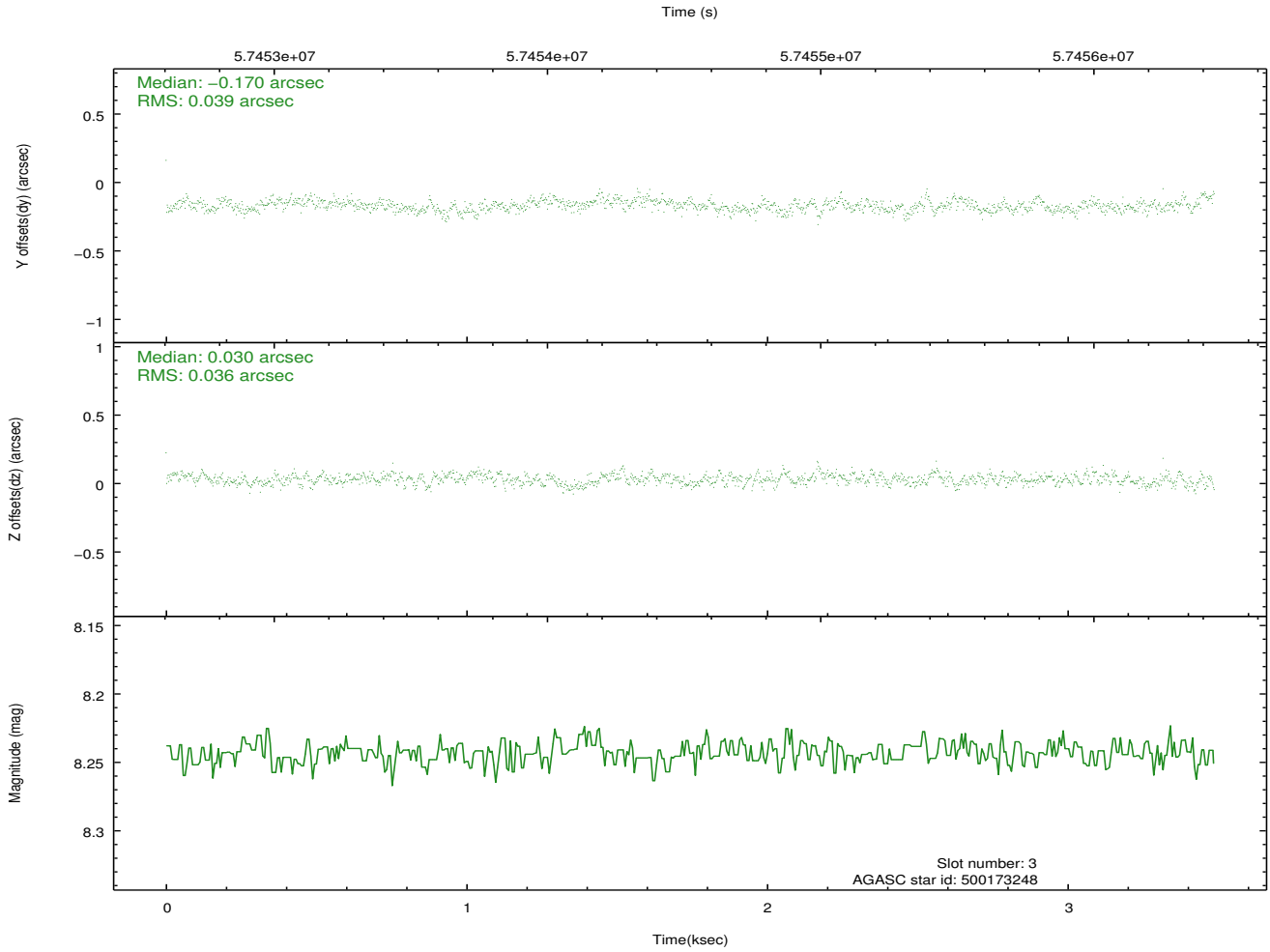
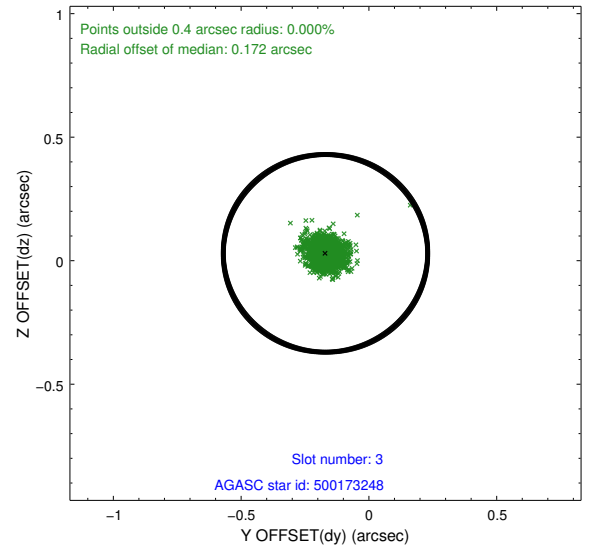
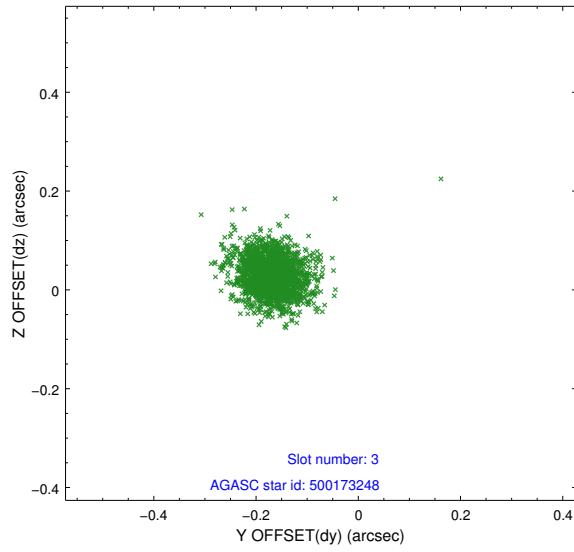


Slot Statistics

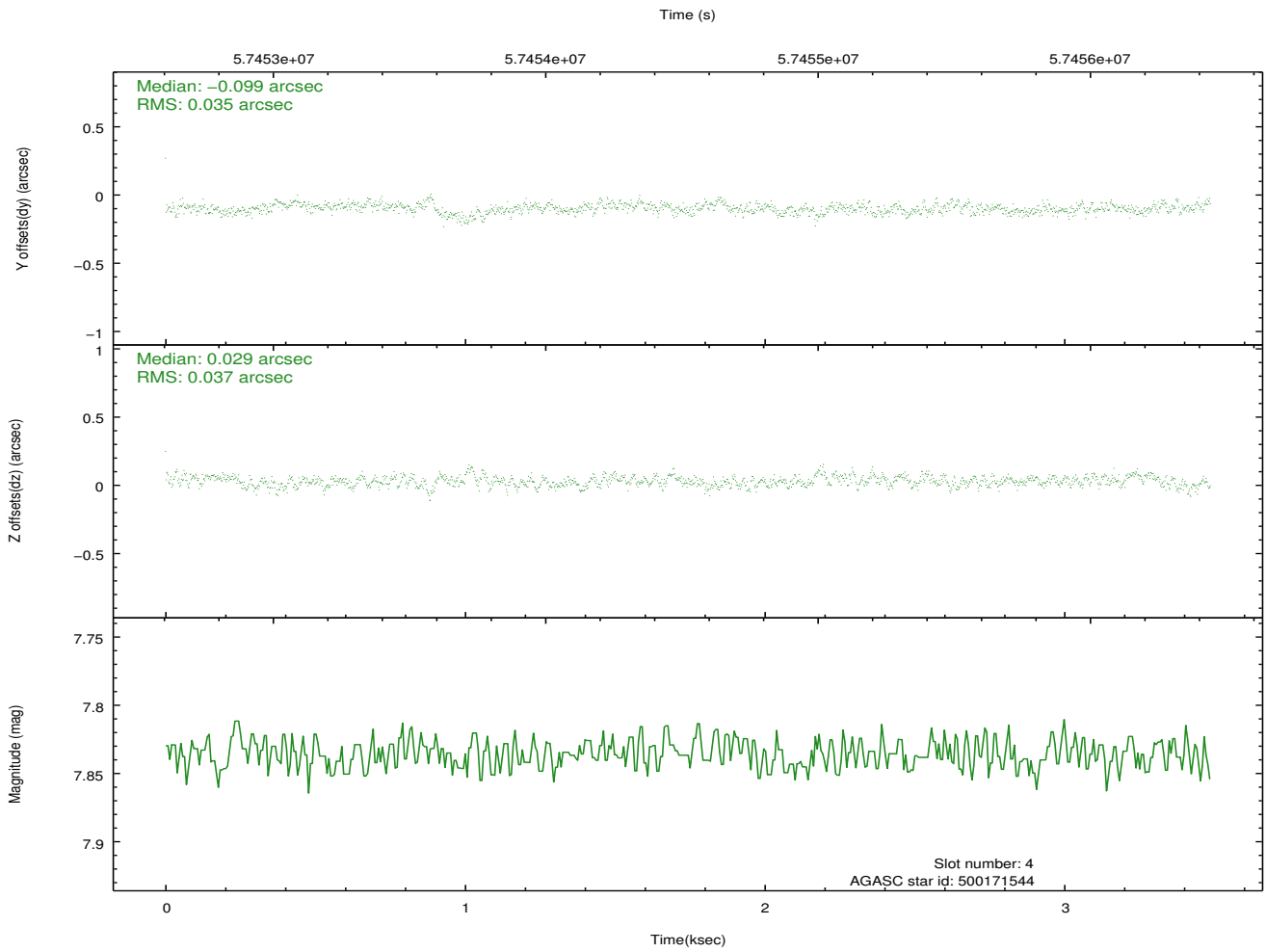
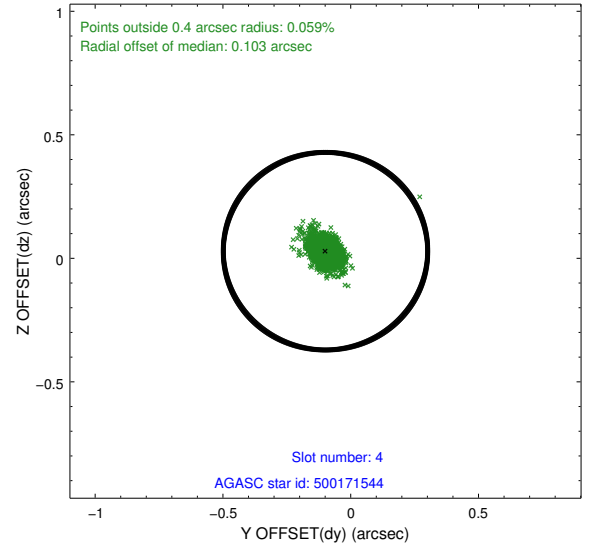
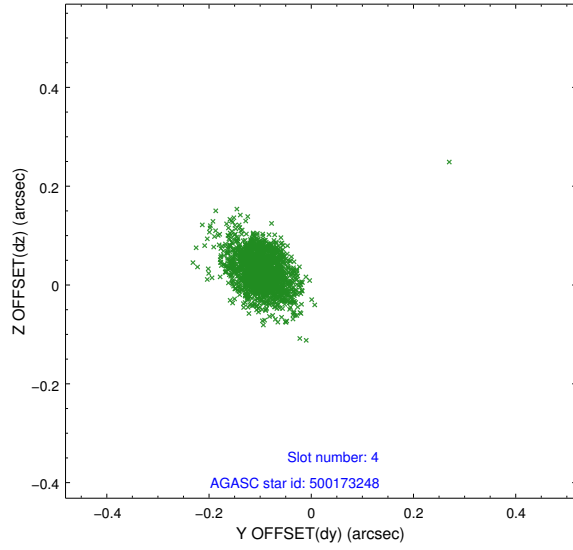
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.96 | 1702 | 0.007 | -0.015 | 0.006 | 0.010 | 0.000000 | 0.000000 | -755.35 | -1287.97 |
| 1 | FID | HRC-I-3 | 7.05 | 1702 | 0.055 | -0.070 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1184.31 | 1015.76 |
| 2 | FID | HRC-I-4 | 6.98 | 1700 | 0.052 | -0.004 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1286.72 | 1014.87 |
| 3 | GUIDE | 500173248 | 8.24 | 1702 | -0.170 | 0.030 | 0.055 | 0.091 | 158.840876 | 53.953250 | 1532.74 | -239.86 |
| 4 | GUIDE | 500171544 | 7.84 | 1701 | -0.099 | 0.029 | 0.052 | 0.089 | 158.880107 | 53.772629 | 1071.64 | -705.01 |
| 5 | GUIDE | 500171344 | 8.42 | 1702 | 0.046 | 0.053 | 0.066 | 0.106 | 158.404020 | 53.216809 | -1135.18 | -1122.33 |
| 6 | GUIDE | 500180056 | 9.69 | 1702 | 0.097 | -0.087 | 0.106 | 0.166 | 157.587703 | 53.702330 | -801.41 | 1327.64 |
| 7 | GUIDE | 500171560 | 10.07 | 1699 | 0.127 | -0.028 | 0.106 | 0.173 | 158.370452 | 53.405557 | -641.08 | -650.28 |

2.4 Star Slots

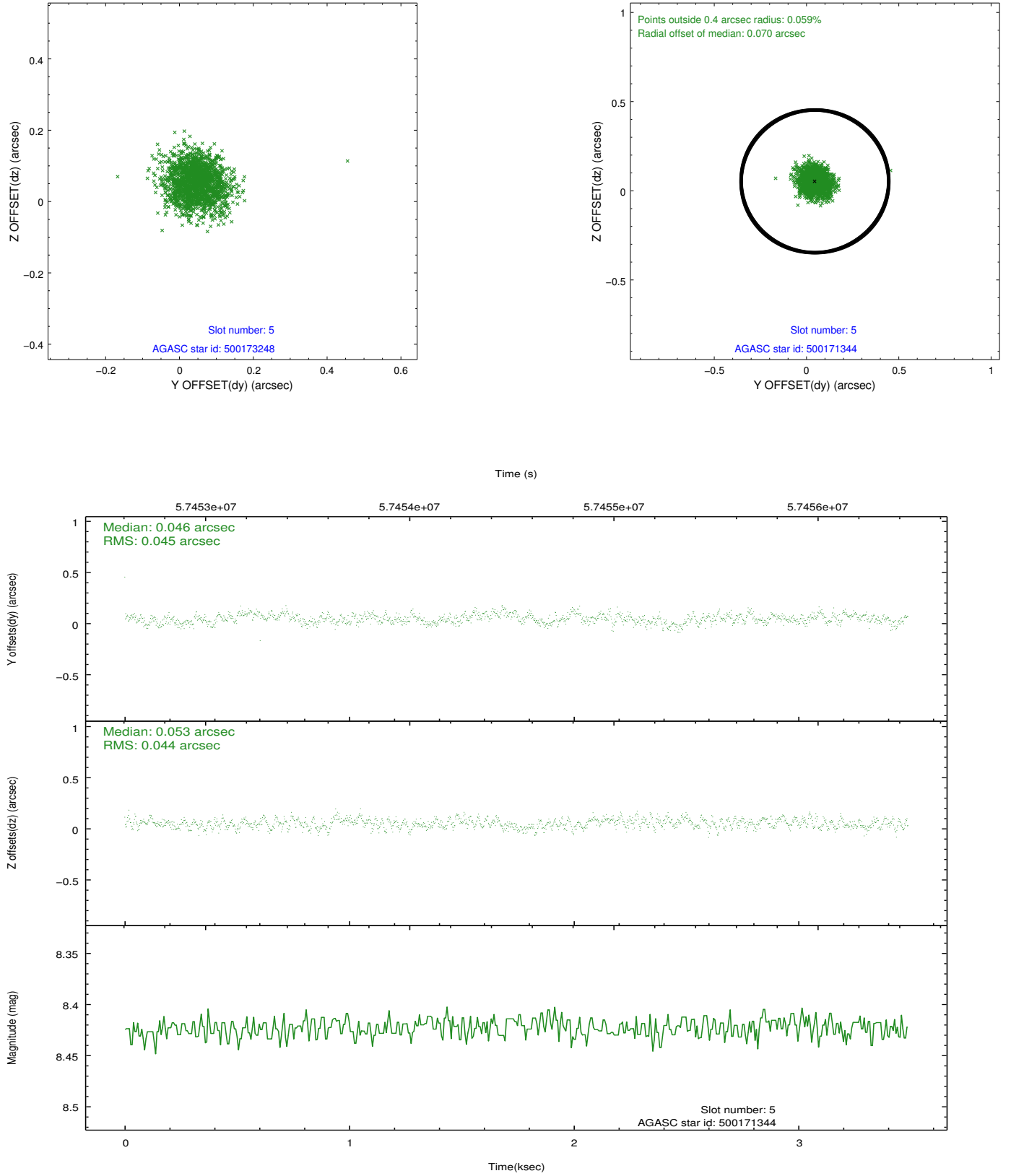
2.4.1 Slot 3



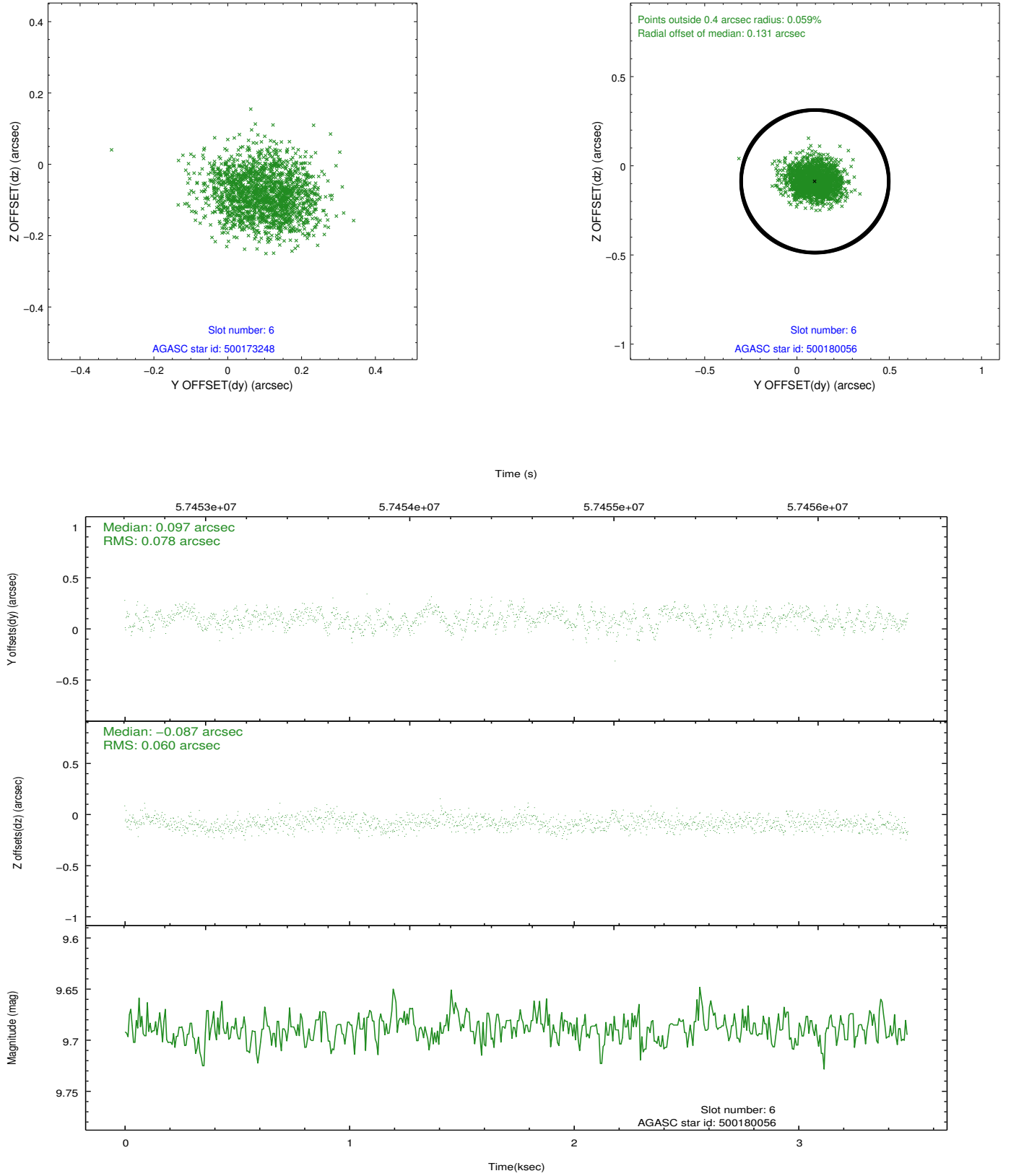
2.4.2 Slot 4



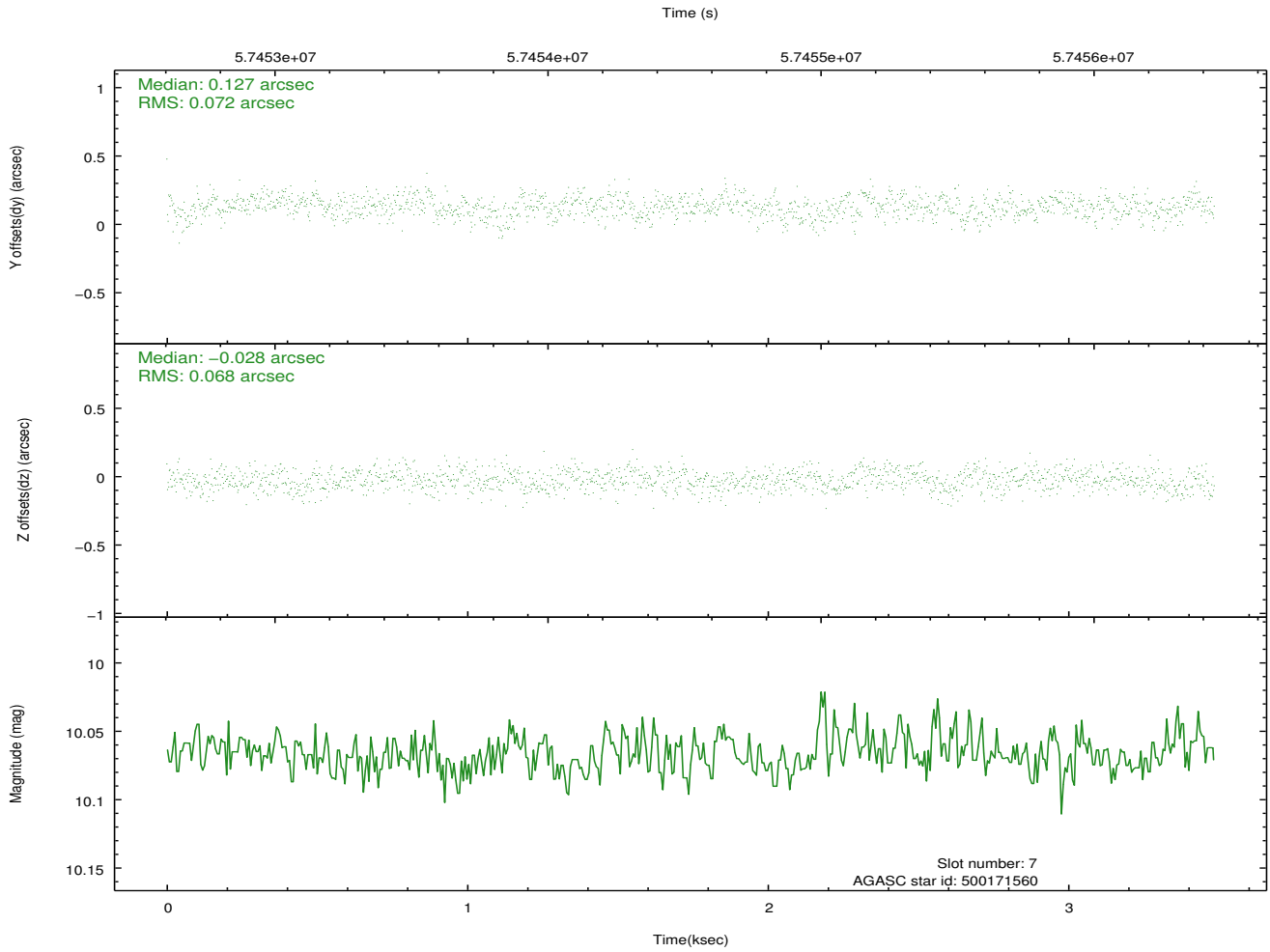
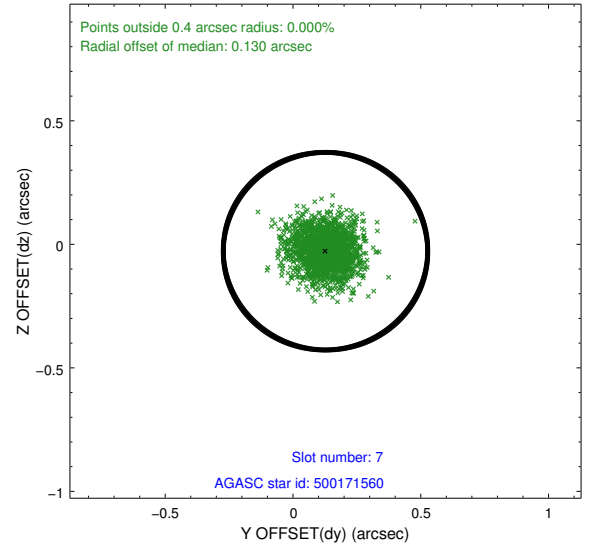
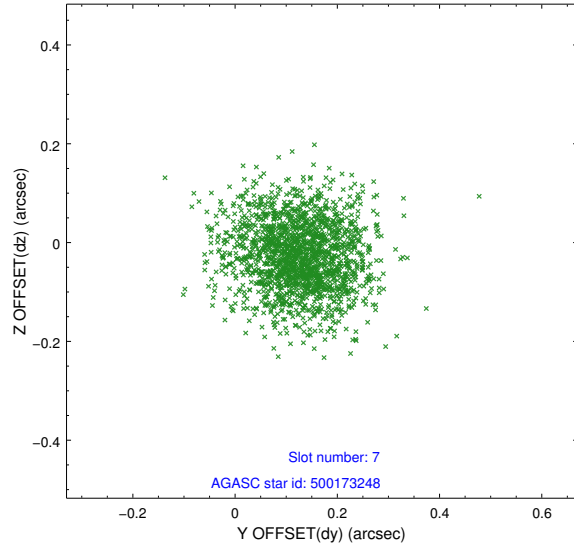
2.4.3 Slot 5



2.4.4 Slot 6

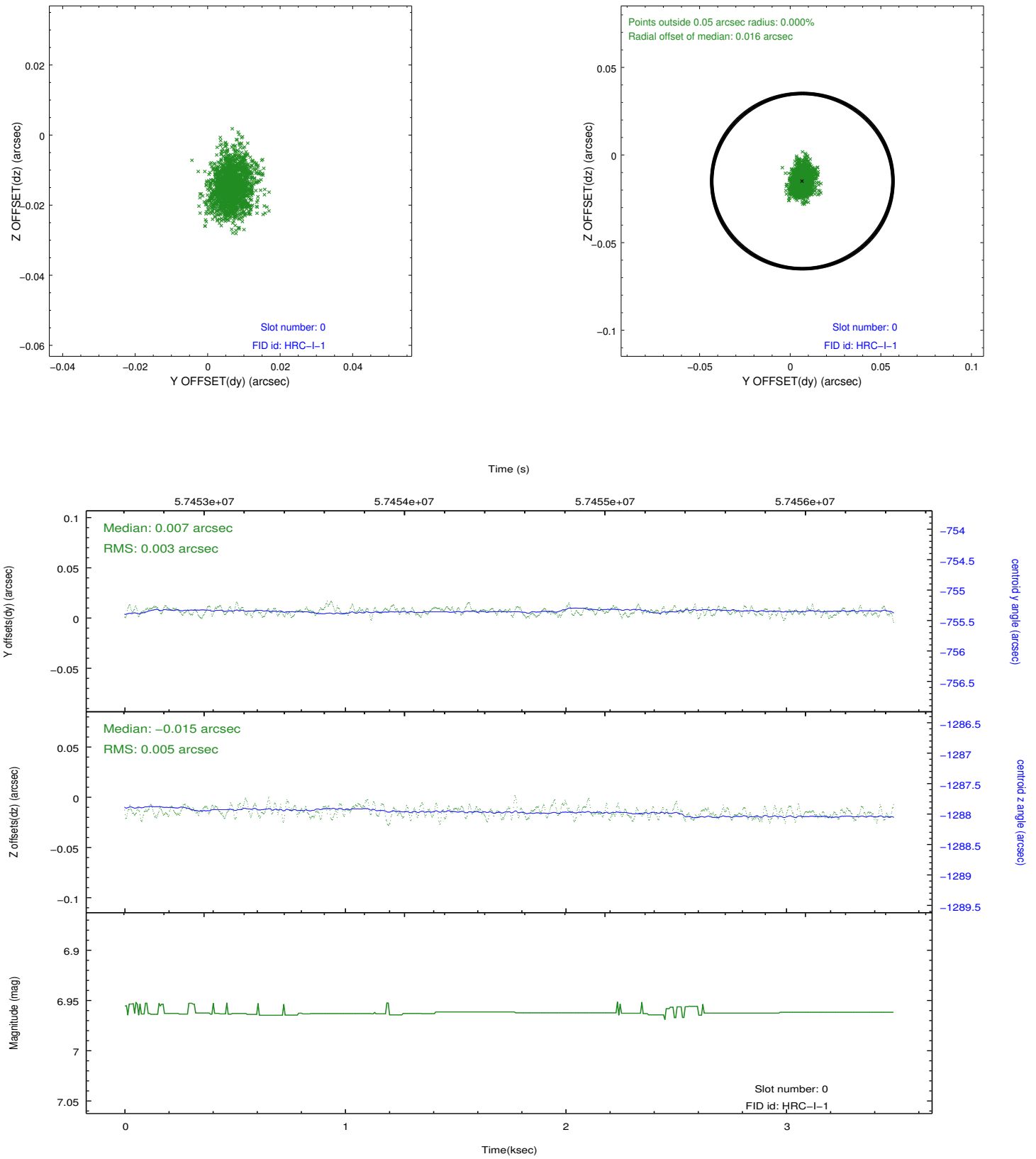


2.4.5 Slot 7

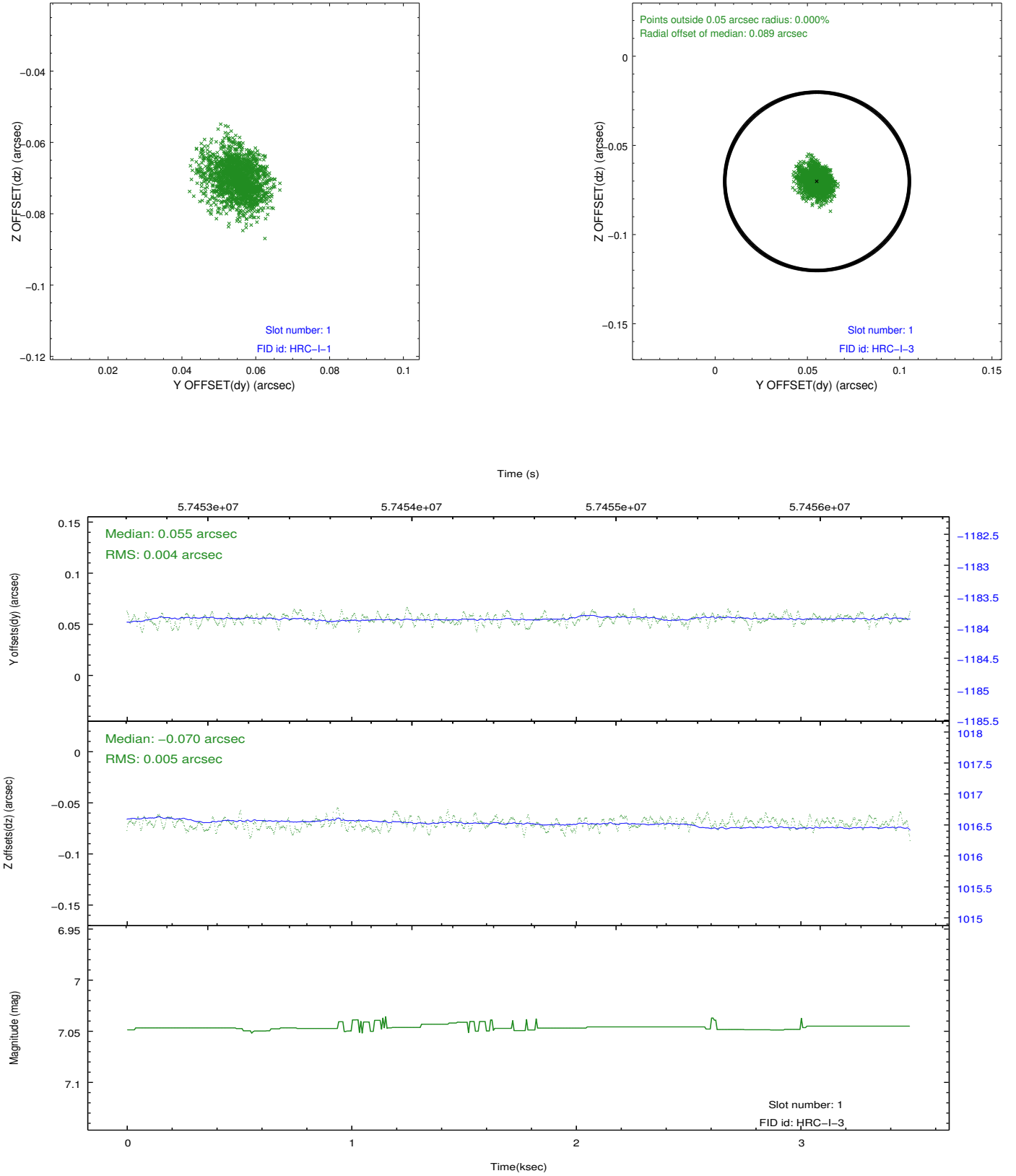


2.5 FID Slots

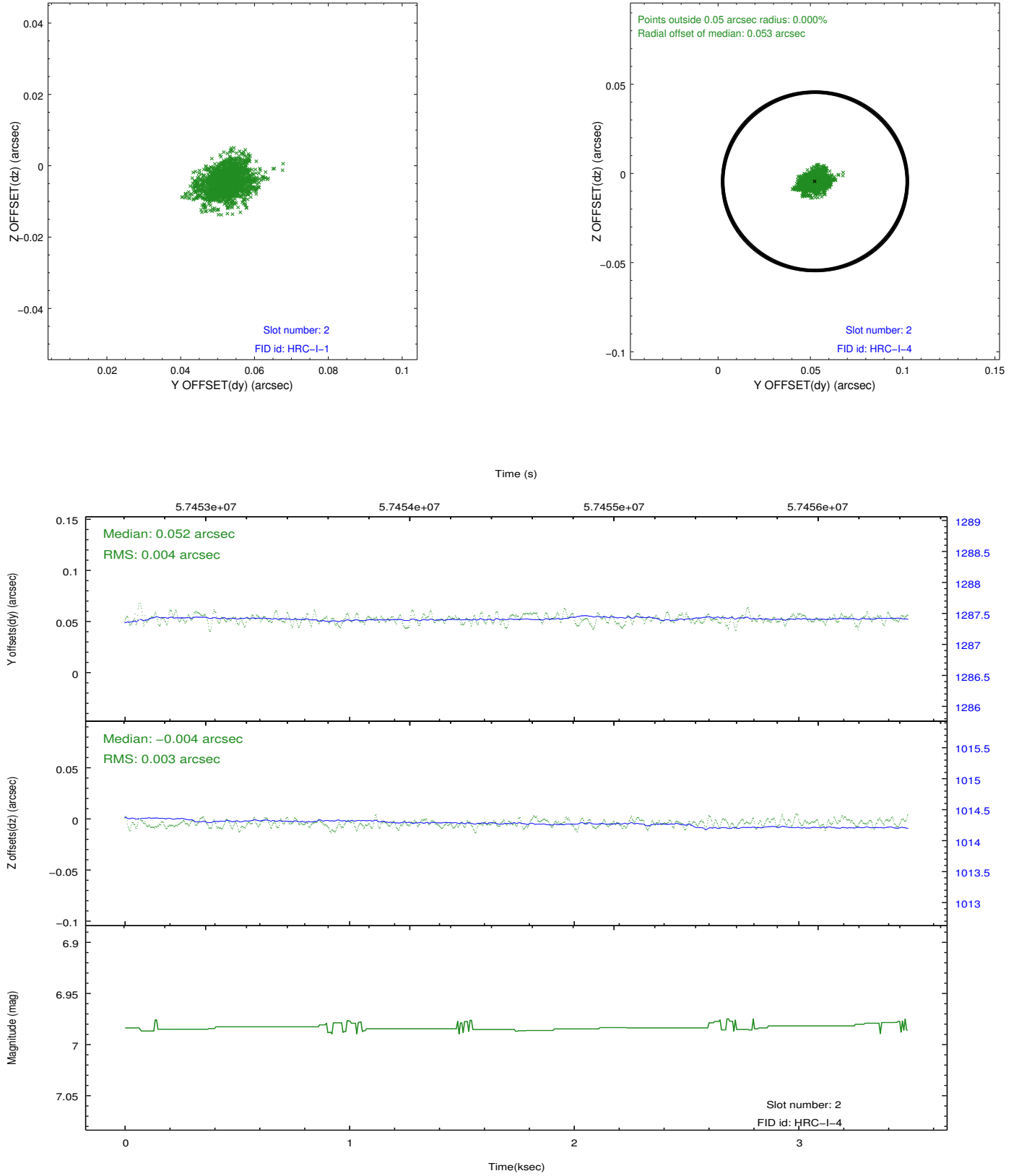
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2009.11.20 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.275 |

A.2 Comments