

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1403 - L2 Version 4

Chandra X-Ray Center

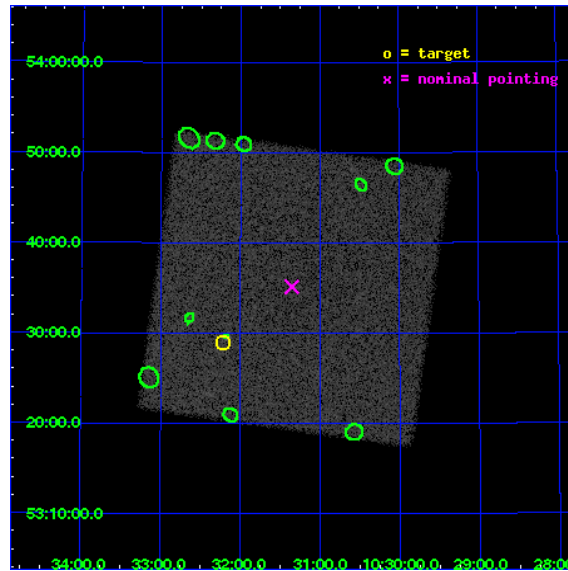
L2 Processing Date : Nov 20 2009

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1 Front

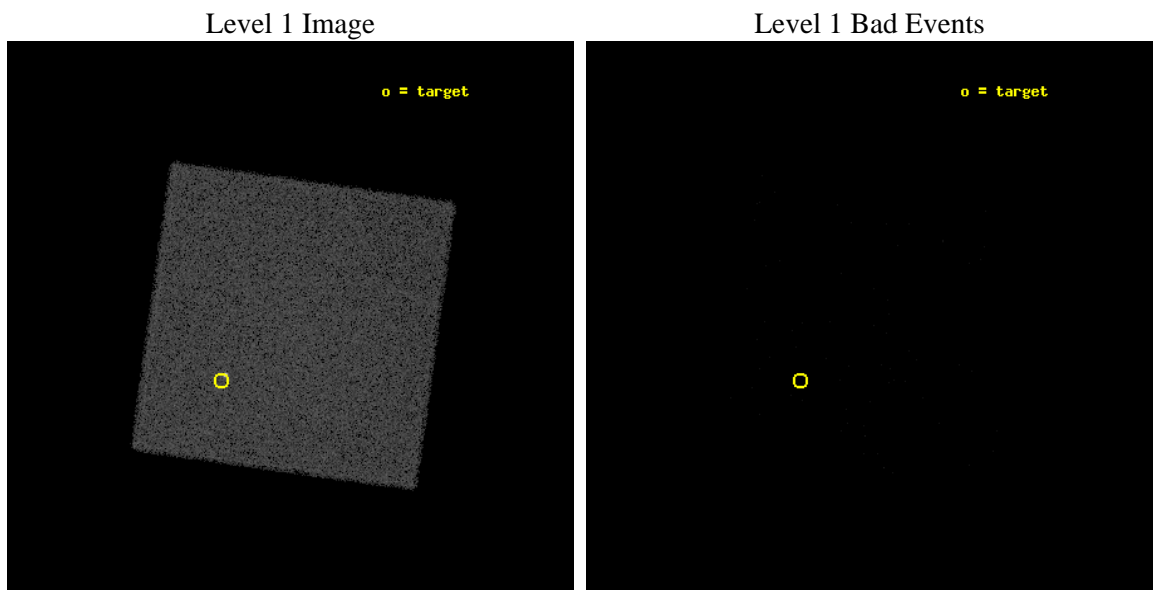
| | | |
|----------|----------------------------------|---------------------------------|
| seq_num | 280353 | Sequence number |
| obs_id | 1403 | Observation id |
| title | OFF-AXIS PSF USING 2RE J1032+532 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | 2REJ1032+532,ZOFF=10 | Source name |
| ra_targ | 158.054167 | Observer's specified target RA |
| dec_targ | 53.483333 | Observer's specified target Dec |
| ra_nom | 157.83796982196 | Nominal RA |
| dec_nom | 53.58600351853 | Nominal Dec |
| roll_nom | 52.977848735132 | Nominal Roll |
| revision | 4 | Processing version of data |
| ontime | 3276.1563681886 | [s] |
| livetime | 3254.764202856 | Ontime multiplied by DTCOR |
| l2events | 105877 | 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 | 3276.1563681886 | [s] |
| caldbver | 4.1.4 | | l1events | 162145 | Number of level 1 events |
| date | 2009-11-20T18:34:06 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

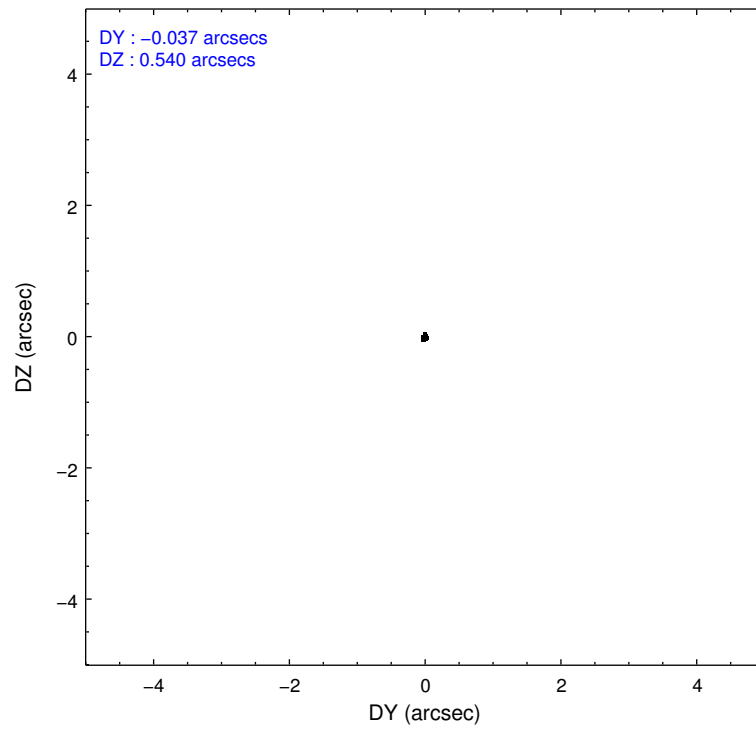
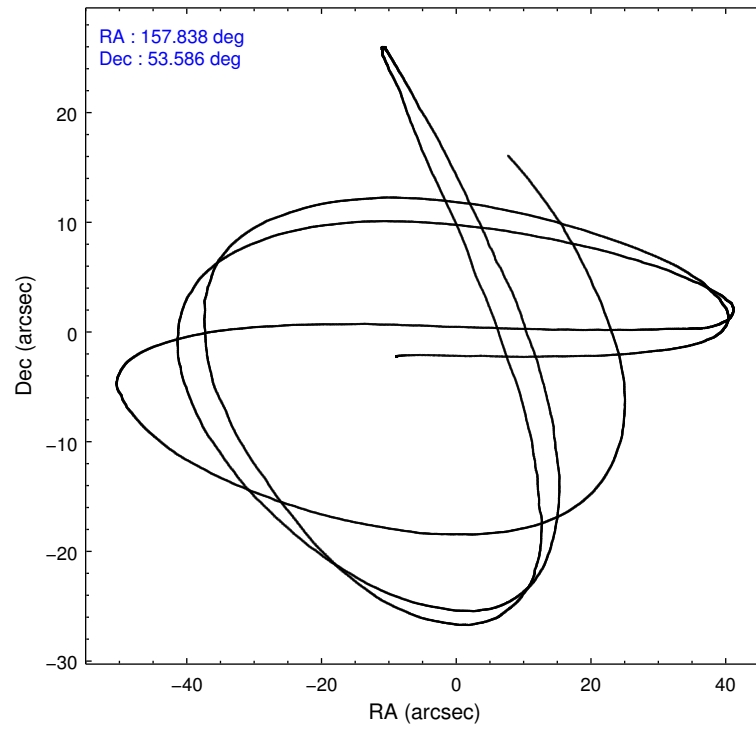
Level 1 Events

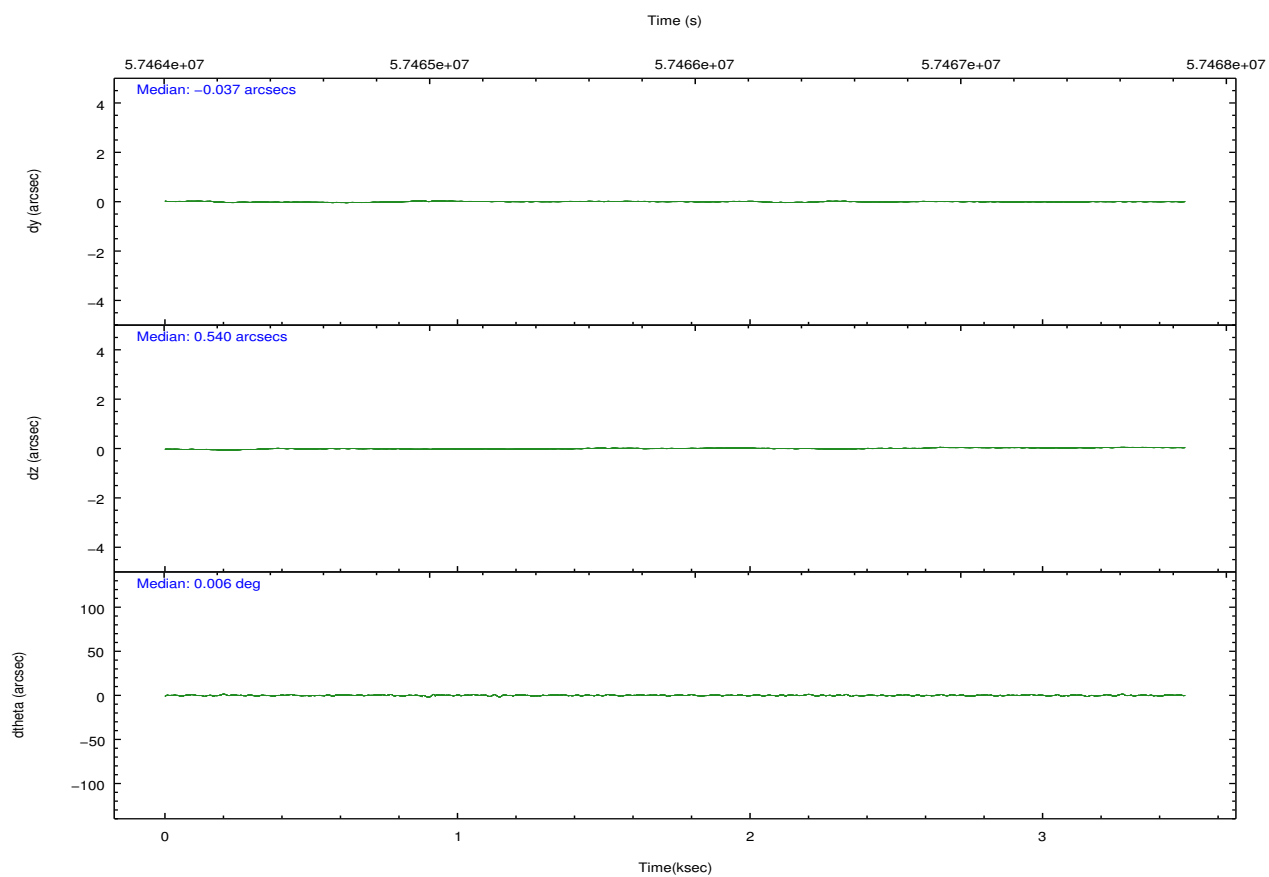
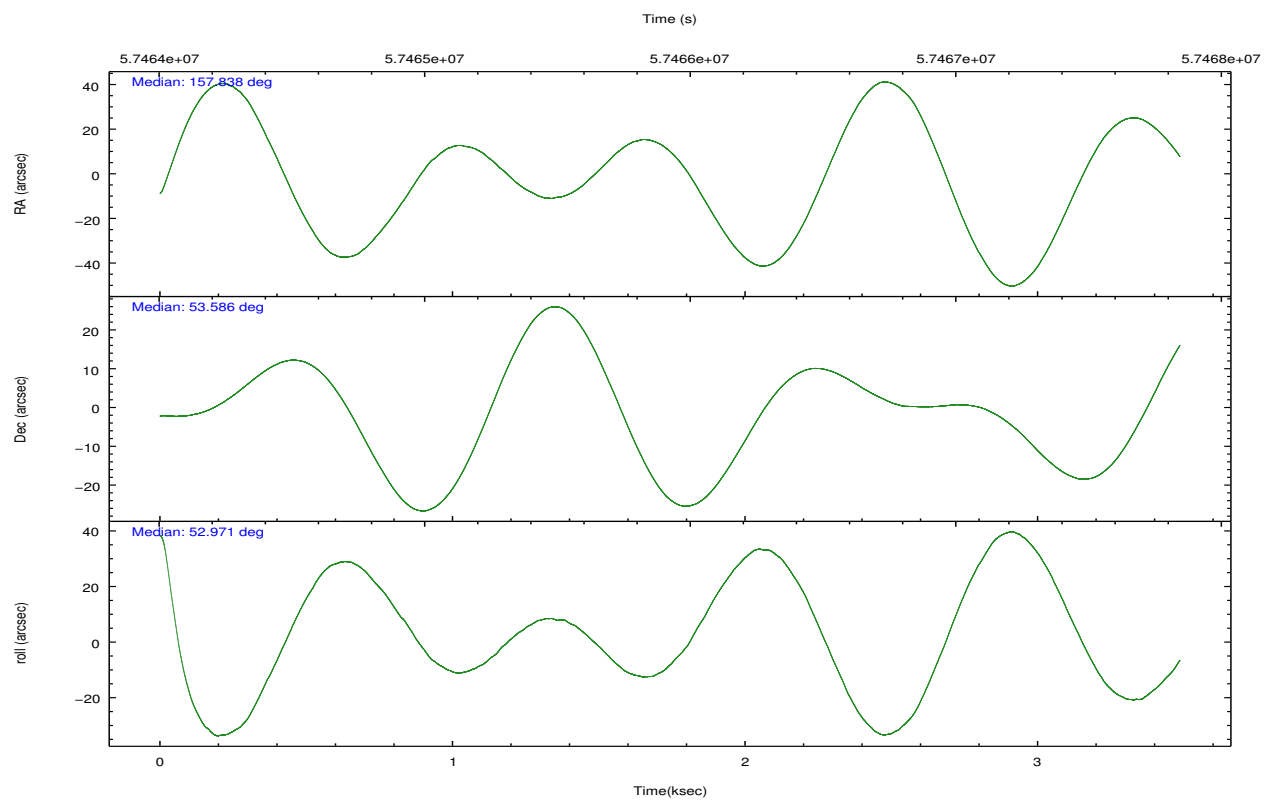
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 162145 |
| rejected events | 2493 |
| rejected % | 1% |

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 | 157.831785 | 157.8379698219616 | | | |
| Pointing Dec | 53.558801 | 53.58600351853045 | | | |
| Pointing Roll | 53.078203 | 52.97784873513195 | | | |
| 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 | 57464666.184000 | 57464000.79509 | | | |
| Observation start date | 1999-10-28T02:23:22 | 1999-10-28T02:13:20 | | | |
| Observation end time | 57467666.184000 | 57467800.470227 | | | |
| Observation end date | 1999-10-28T03:13:22 | 1999-10-28T03:16:40 | | | |

2.3 Aspect



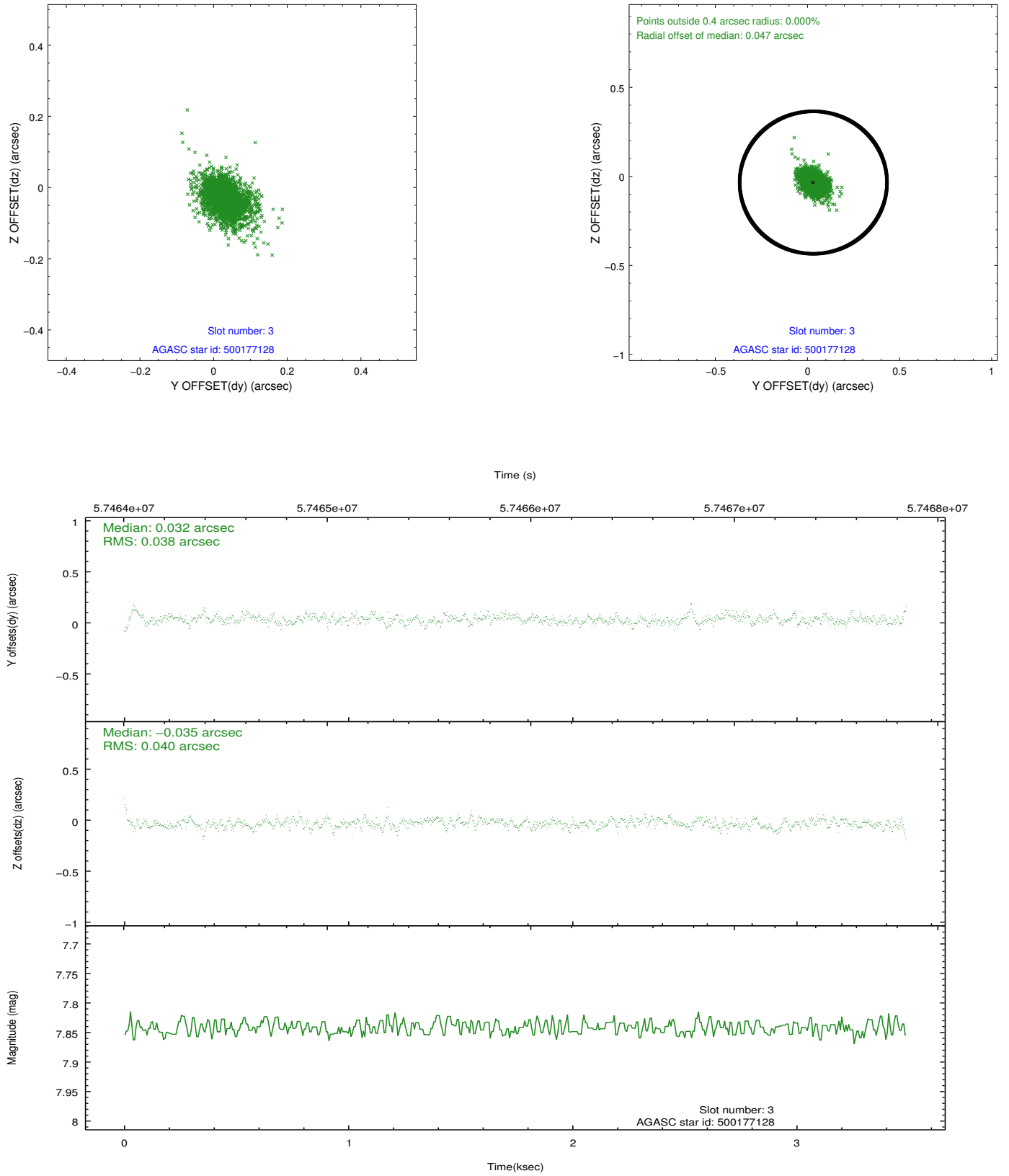


Slot Statistics

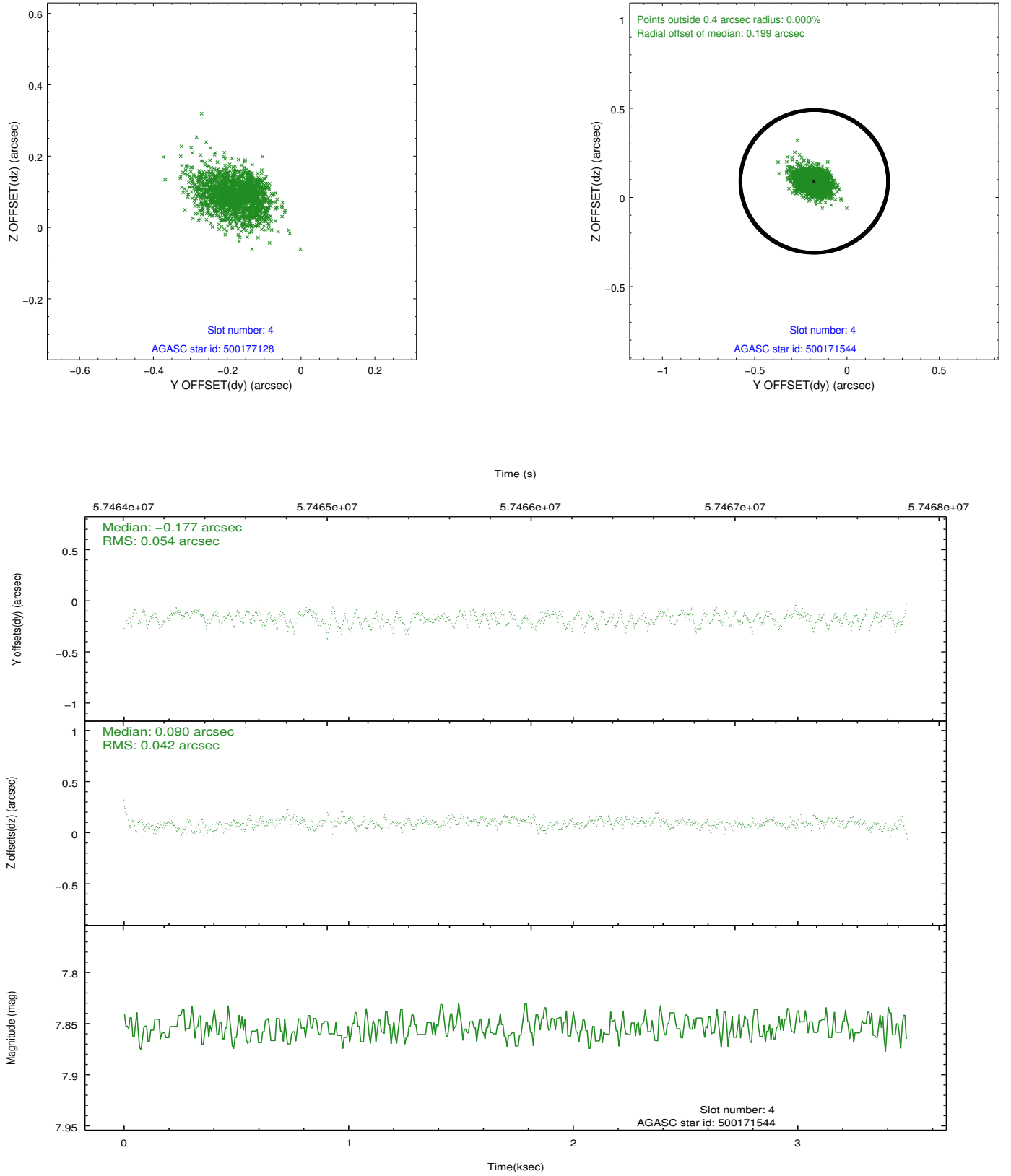
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.96 | 1701 | 0.003 | -0.024 | 0.006 | 0.010 | 0.000000 | 0.000000 | -755.30 | -1288.31 |
| 1 | FID | HRC-I-3 | 7.05 | 1702 | 0.059 | -0.066 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1184.26 | 1015.44 |
| 2 | FID | HRC-I-4 | 6.99 | 1702 | 0.052 | 0.001 | 0.005 | 0.008 | 0.000000 | 0.000000 | 1286.76 | 1014.56 |
| 3 | GUIDE | 500177128 | 7.84 | 1702 | 0.032 | -0.035 | 0.056 | 0.095 | 158.210933 | 53.586826 | 569.62 | -583.99 |
| 4 | GUIDE | 500171544 | 7.85 | 1702 | -0.177 | 0.090 | 0.072 | 0.117 | 158.880107 | 53.772629 | 1969.08 | -1309.00 |
| 5 | GUIDE | 500171344 | 8.43 | 1702 | 0.088 | -0.022 | 0.074 | 0.122 | 158.404020 | 53.216809 | -237.46 | -1721.77 |
| 6 | GUIDE | 500171736 | 8.79 | 1702 | -0.008 | 0.144 | 0.082 | 0.132 | 158.648618 | 53.141434 | -133.02 | -2305.73 |
| 7 | GUIDE | 500180056 | 9.68 | 1698 | 0.060 | -0.176 | 0.098 | 0.162 | 157.587703 | 53.702330 | 101.69 | 727.06 |

2.4 Star Slots

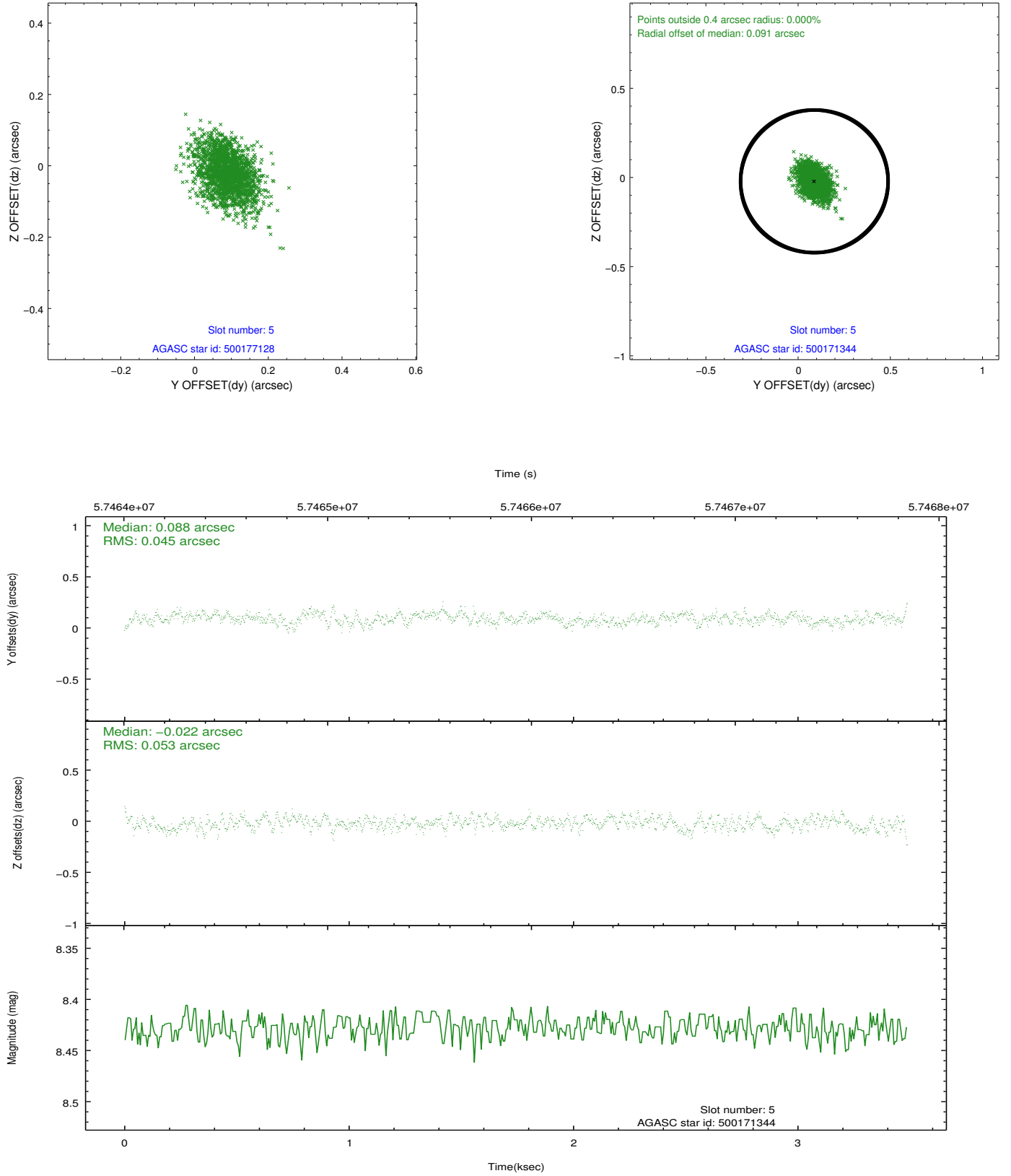
2.4.1 Slot 3



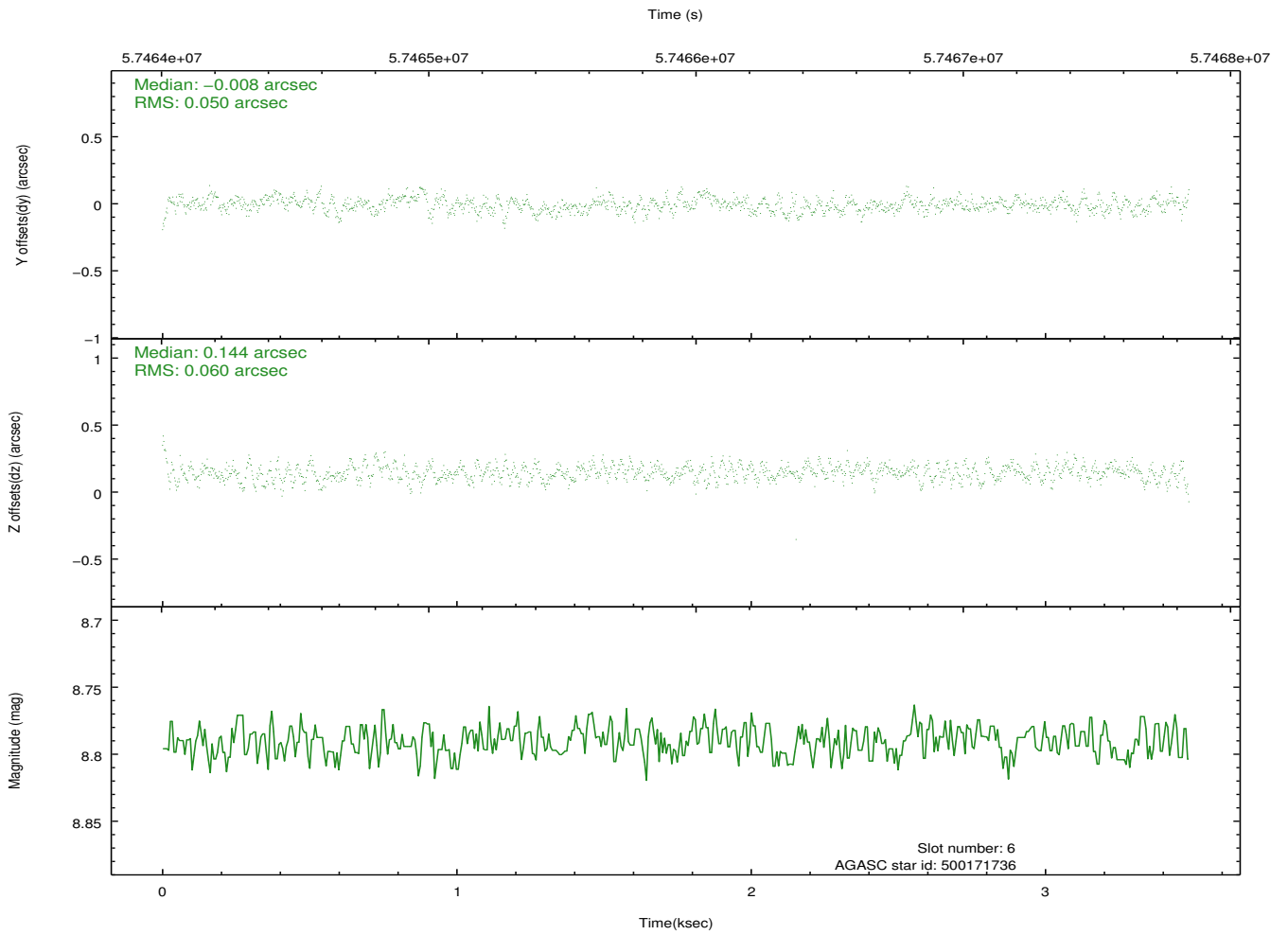
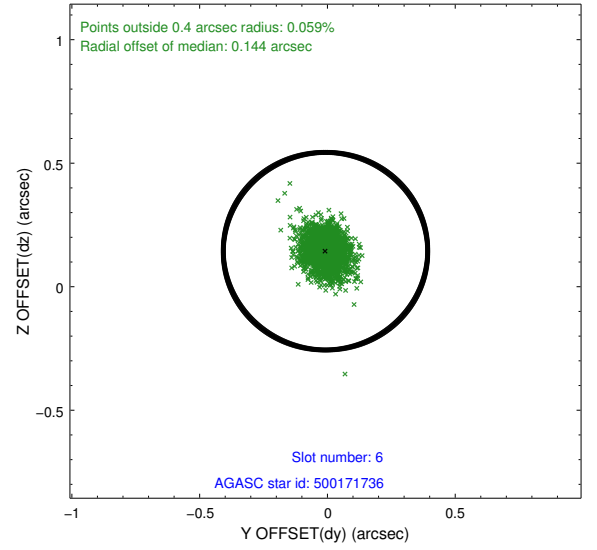
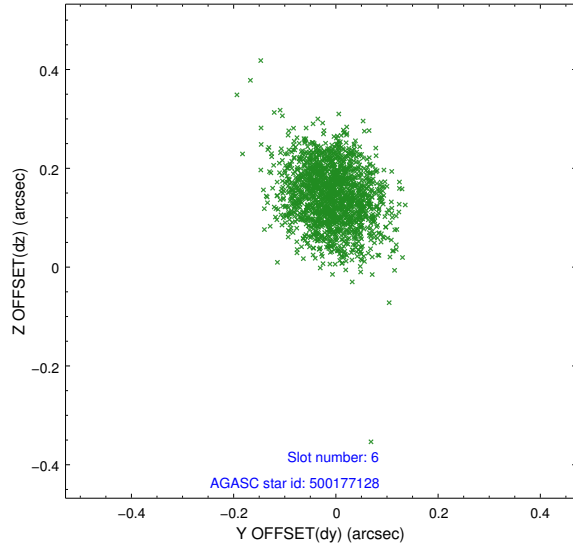
2.4.2 Slot 4



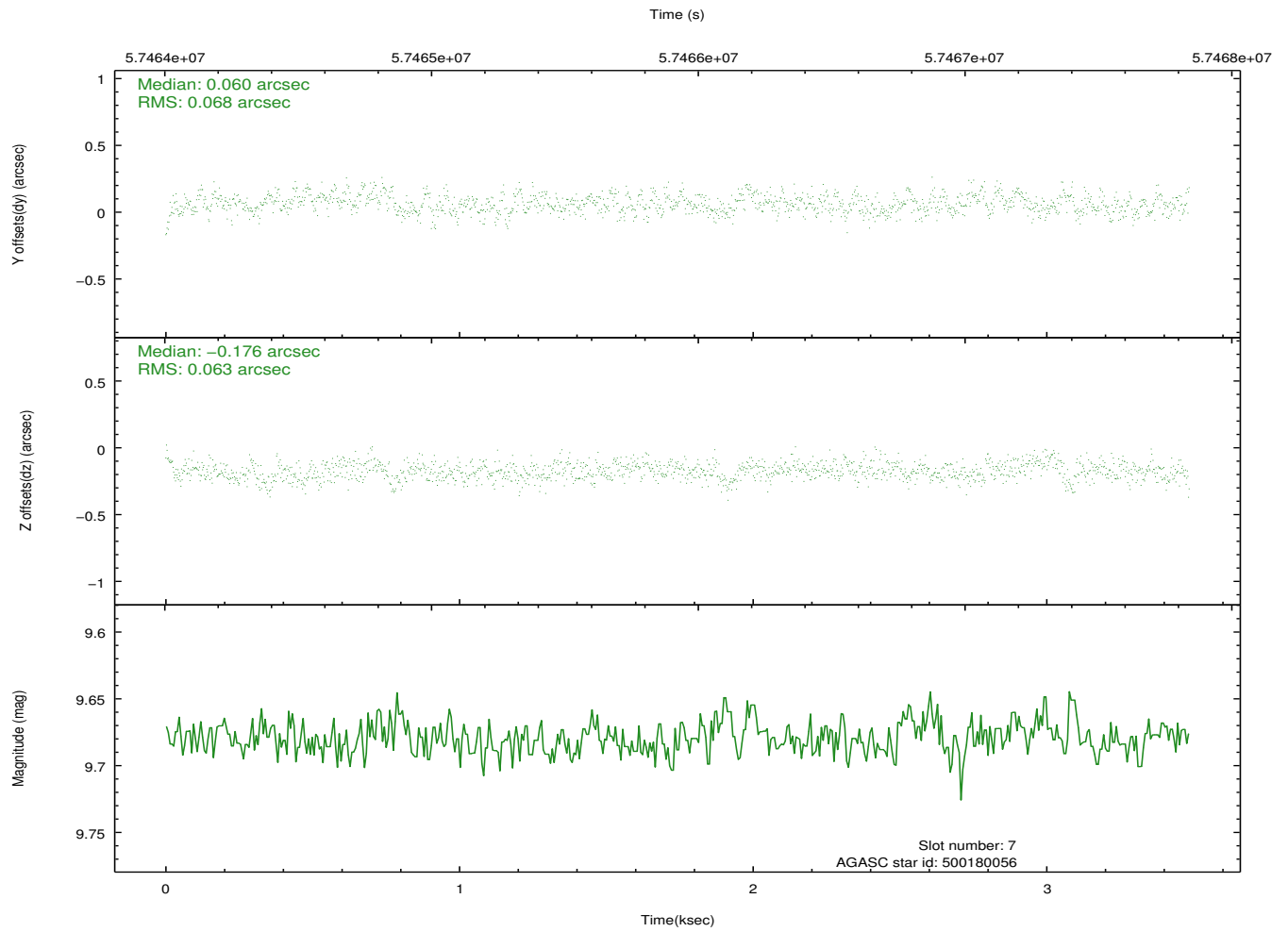
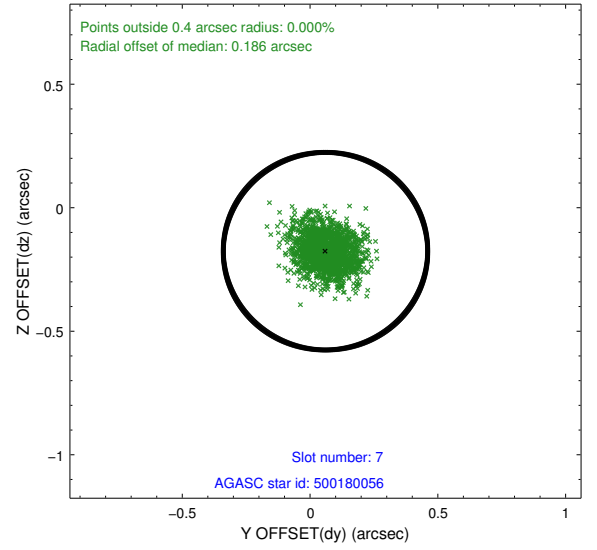
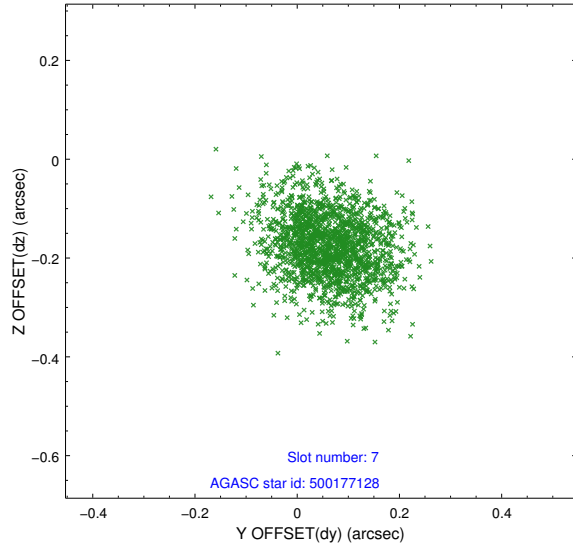
2.4.3 Slot 5



2.4.4 Slot 6

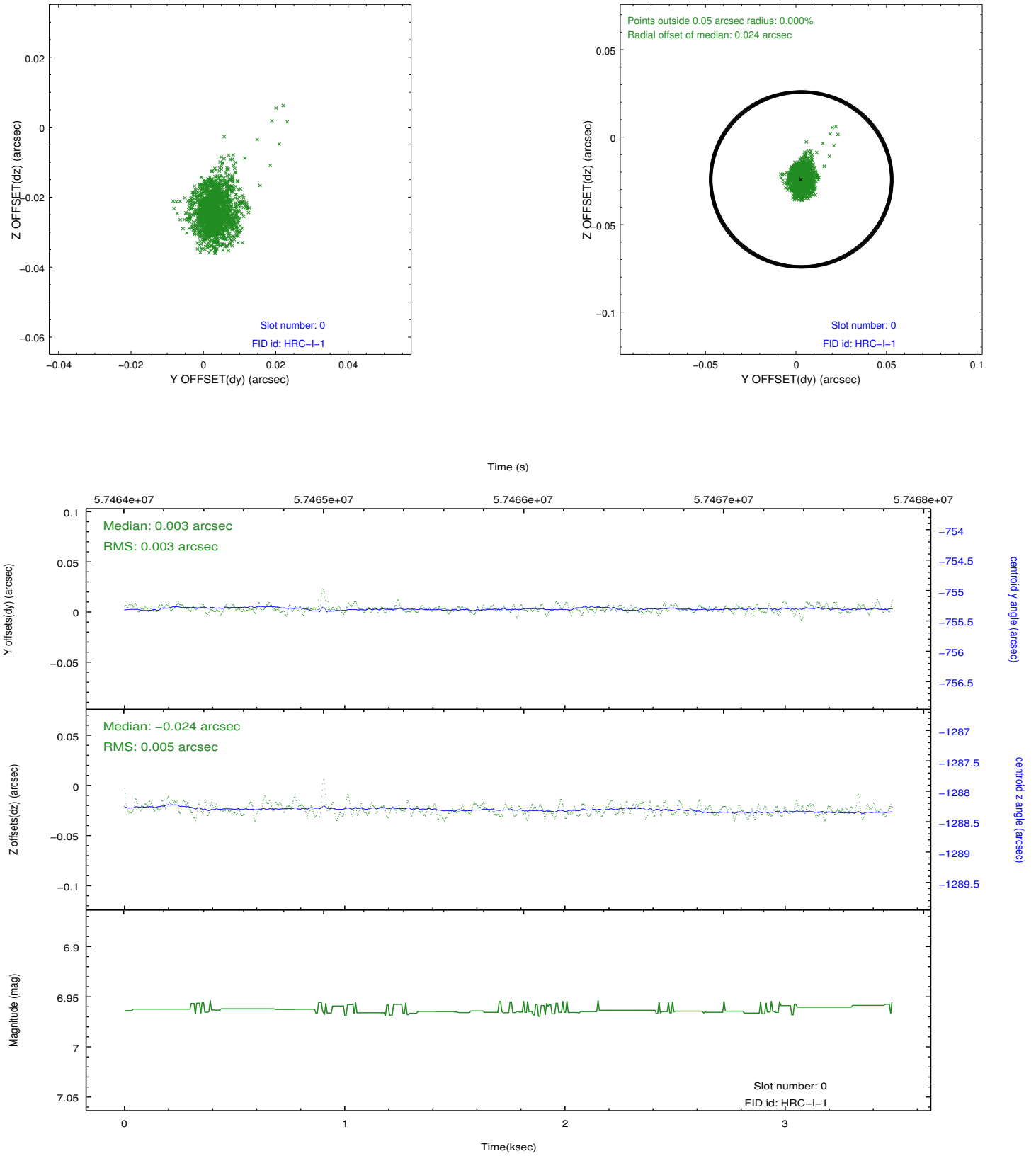


2.4.5 Slot 7

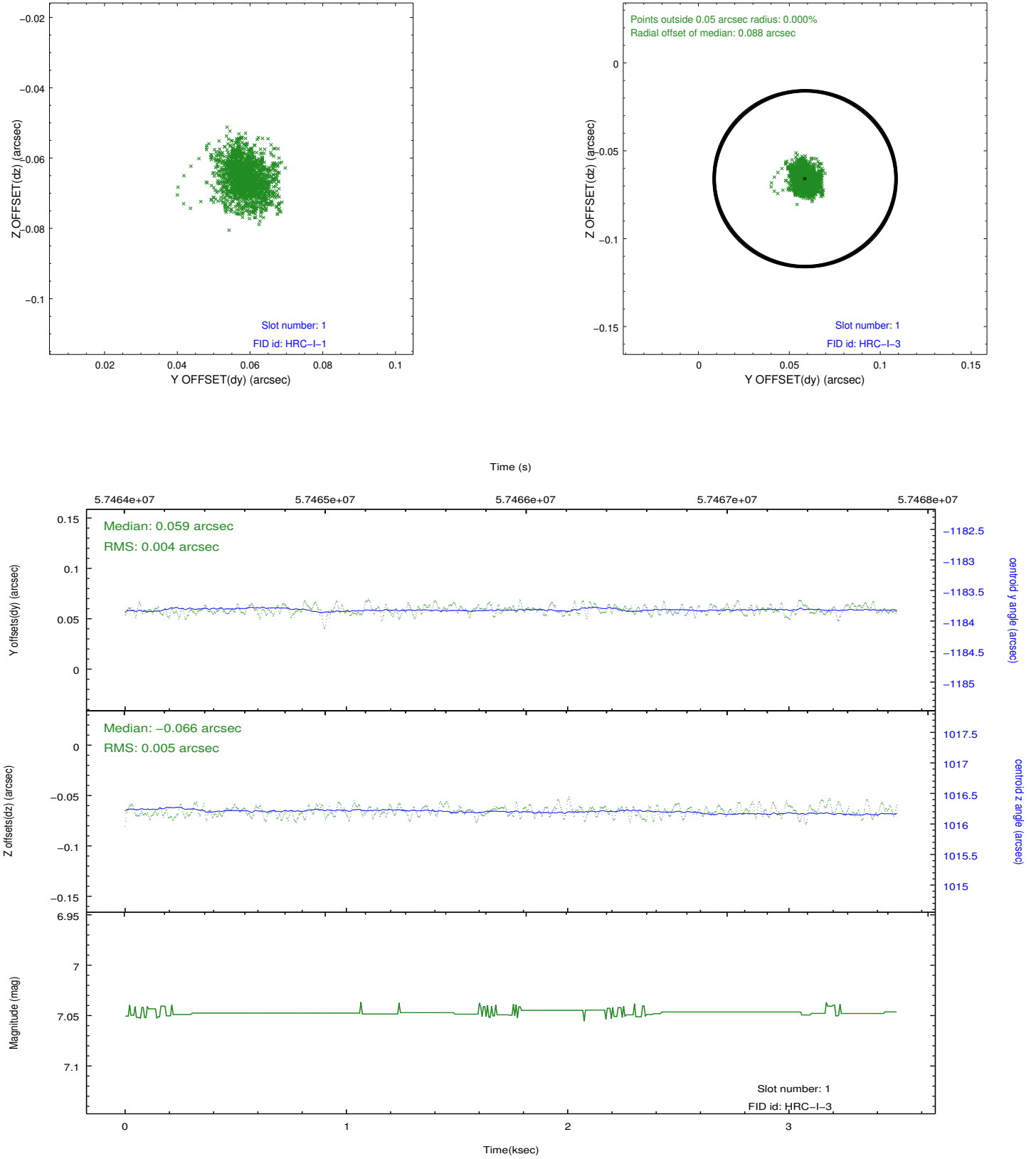


2.5 FID Slots

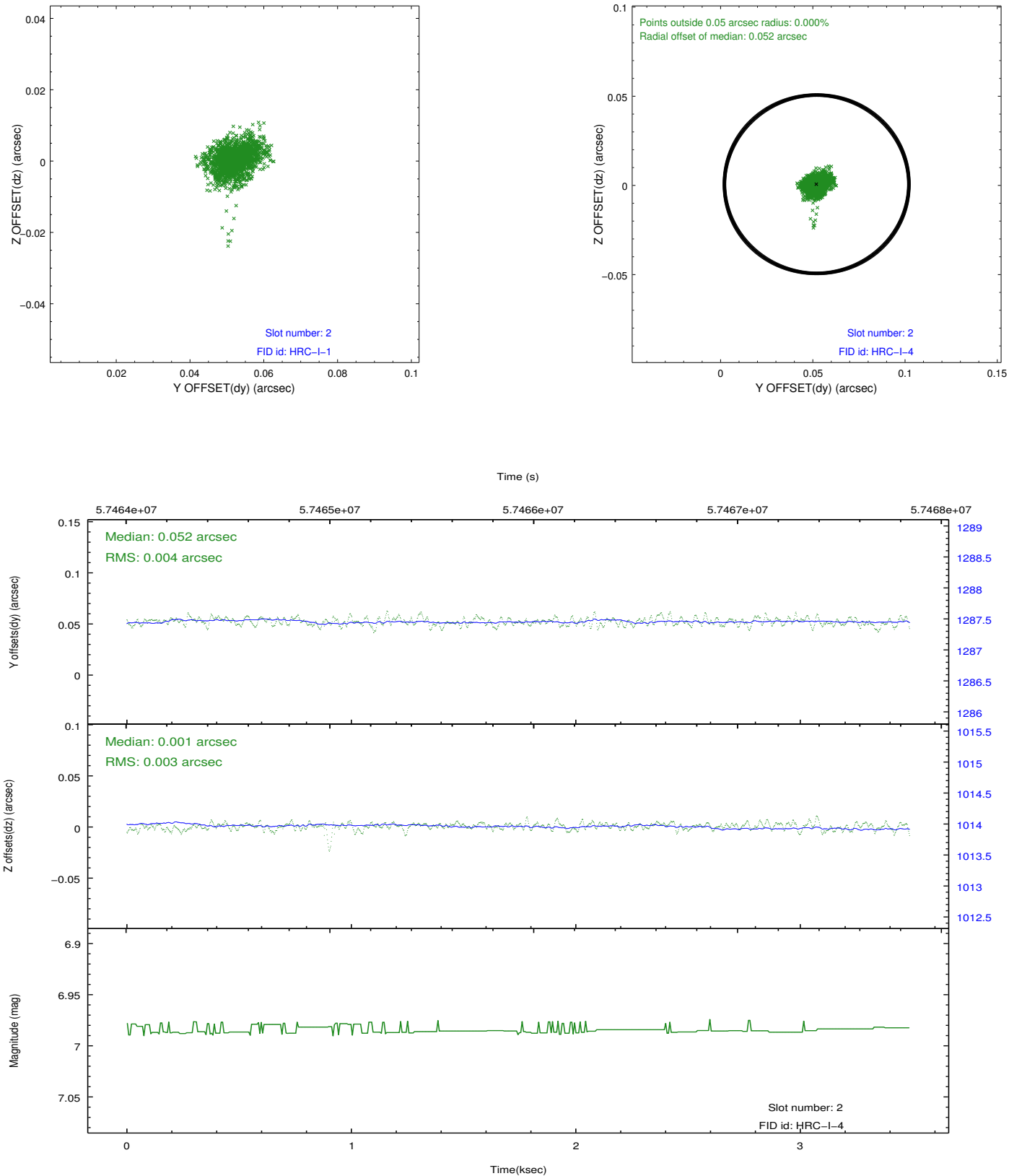
2.5.1 Slot 0



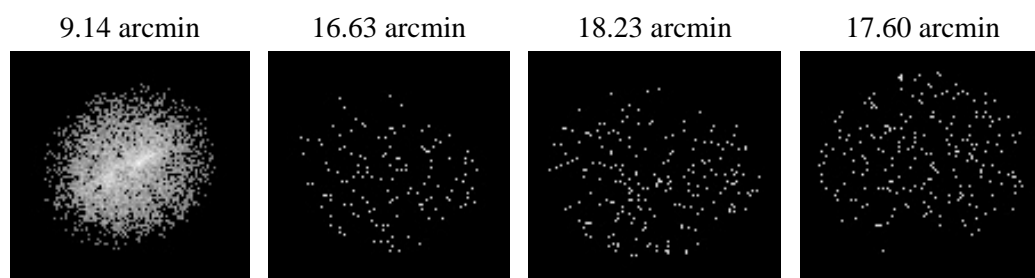
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2009.11.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.276 |

A.2 Comments

HRC-I off-axis PSF analysis.=====

Spike in count rate from about 50 counts per second to about 100 counts per second between 2.8 and 3.0 ksec into the observation. Most of this time period is included in the GTI.