

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4896 - L2 Version 3  
Chandra X-Ray Center

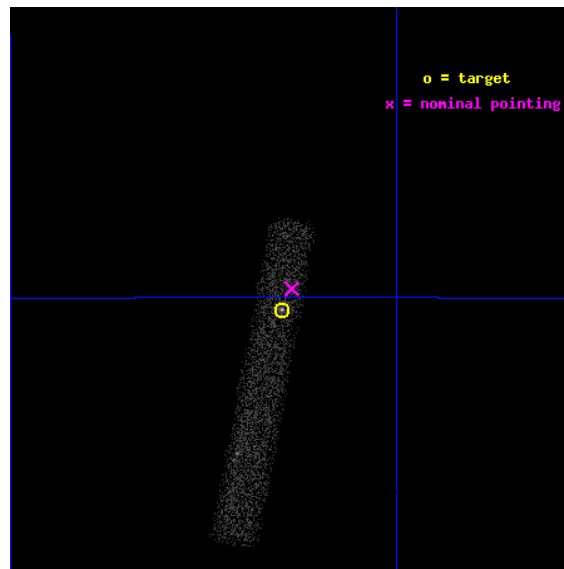
L2 Processing Date : Dec 3 2012

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# 1 Front

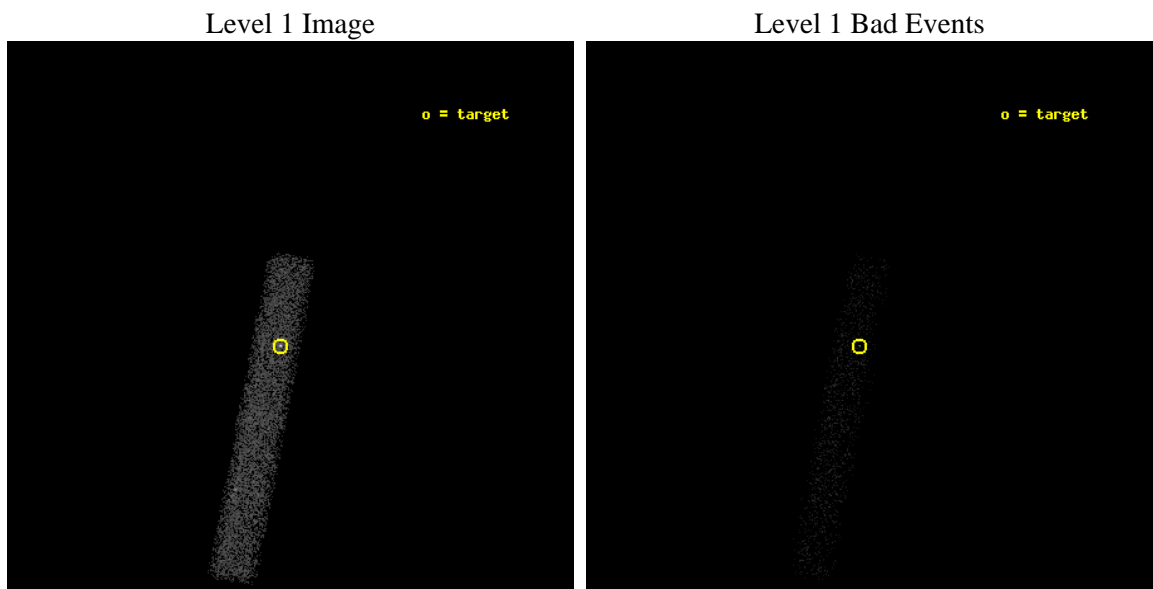
|          |   |   |
|----------|---|---|
| seq_num  | 700978  | Sequence number                             |
| obs_id   | 4896  | Observation id                              |
| title    | Continuing a Flux-limited Survey for X-ray Emission from Radio Jets | &#160                                       |
| observer | Dr. Herman Marshall   | Principal investigator                      |
| object   | 2326-477  | Source name                                 |
| dtcycle  | 0   | &#160                                       |
| cycle    | P   | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 352.32375   | Observer's specified<br>target RA [deg]     |
| dec_targ | -47.505306  | Observer's specified<br>target Dec [deg]    |
| ra_nom   | 352.31749842493   | Nominal RA [deg]                            |
| dec_nom  | -47.496389431197  | Nominal Dec [deg]                           |
| roll_nom | 100.81711793046   | Nominal Roll [deg]                          |
| revision | 3   | Processing version of<br>data               |
| ontime   | 9150.4001363218   | Sum of GTIs [s]                             |
| livetime | 8298.9299259222   | Livetime [s]                                |
| ontime7  | 9150.4001363218   | Sum of GTIs [s]                             |
| l2events | 7503  | Number of level 2<br>events                 |



## 2 OBI

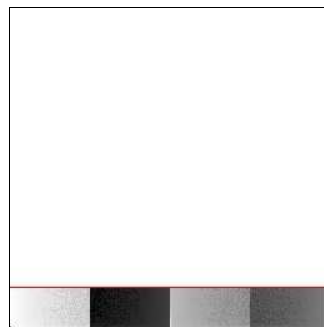
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

|          |                     |                                |                |                 |   |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num  | 0                   | Obi number                     | sched_exp_time | 9000.000000     | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5               | Processing system revision     | ontime         | 9150.4001363218 | Sum of GTIs [s]                         |
| caldsver | 4.5.2               | &#160                          | ontime7        | 9150.4001363218 | Sum of GTIs [s]                         |
| date     | 2012-12-03T05:00:44 | Date and time of file creation | l1events       | 16098           | Number of level 1 events                |
| revision | 3                   | Processing version of data     |                |                 |   |

### 2.1.4 Events

|                 |              |
|-----------------|--------------|
|                 | <b>ccd 7</b> |
| level 1 events  | 16098        |
| rejected events | 8392         |
| rejected %      | 52%          |

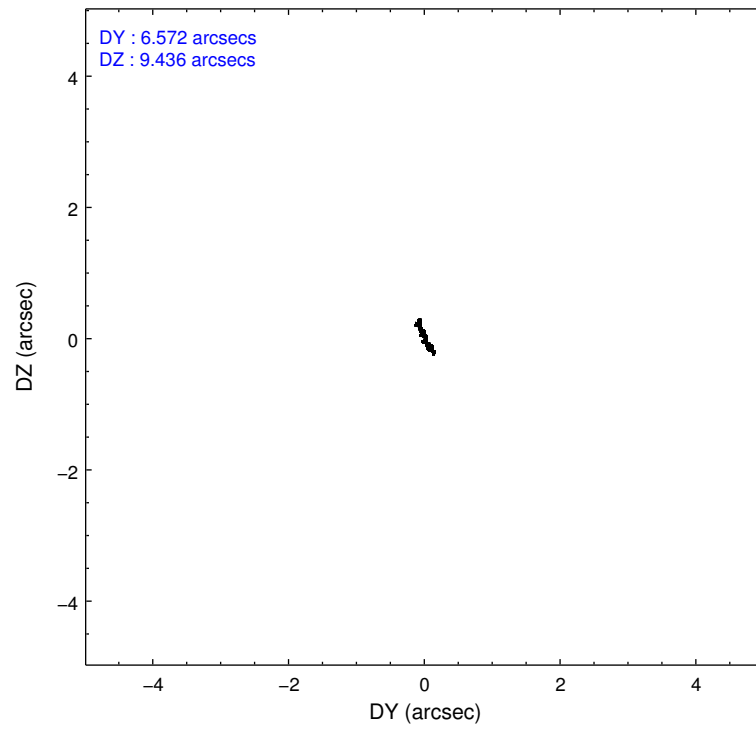
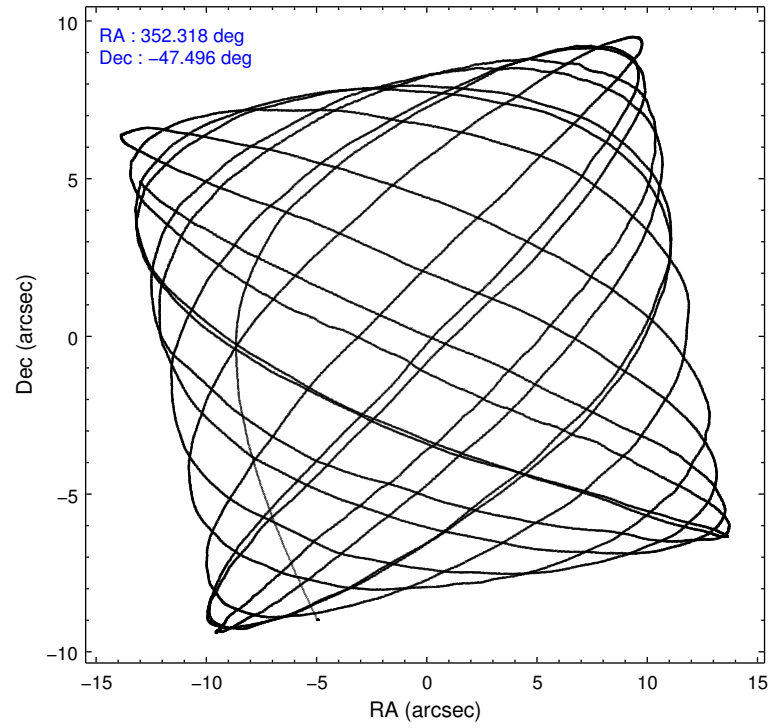
|                |              |
|----------------|--------------|
|                | <b>ccd 7</b> |
| grade 0 events | 1154         |
|                | 7%           |
| grade 1 events | 11           |
|                | 0%           |
| grade 2 events | 1774         |
|                | 11%          |
| grade 3 events | 1046         |
|                | 6%           |
| grade 4 events | 1071         |
|                | 6%           |
| grade 5 events | 1225         |
|                | 7%           |
| grade 6 events | 3624         |
|                | 22%          |
| grade 7 events | 6193         |
|                | 38%          |

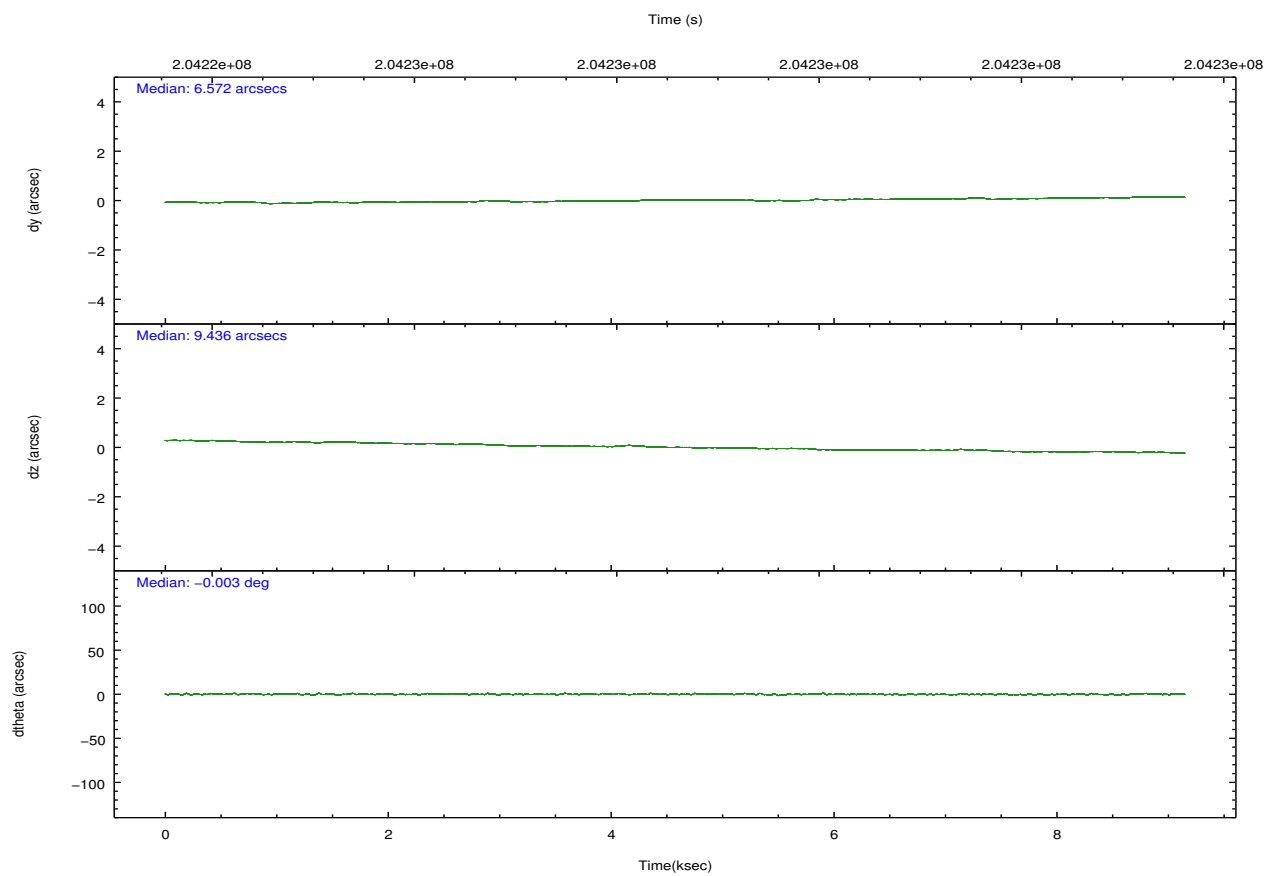
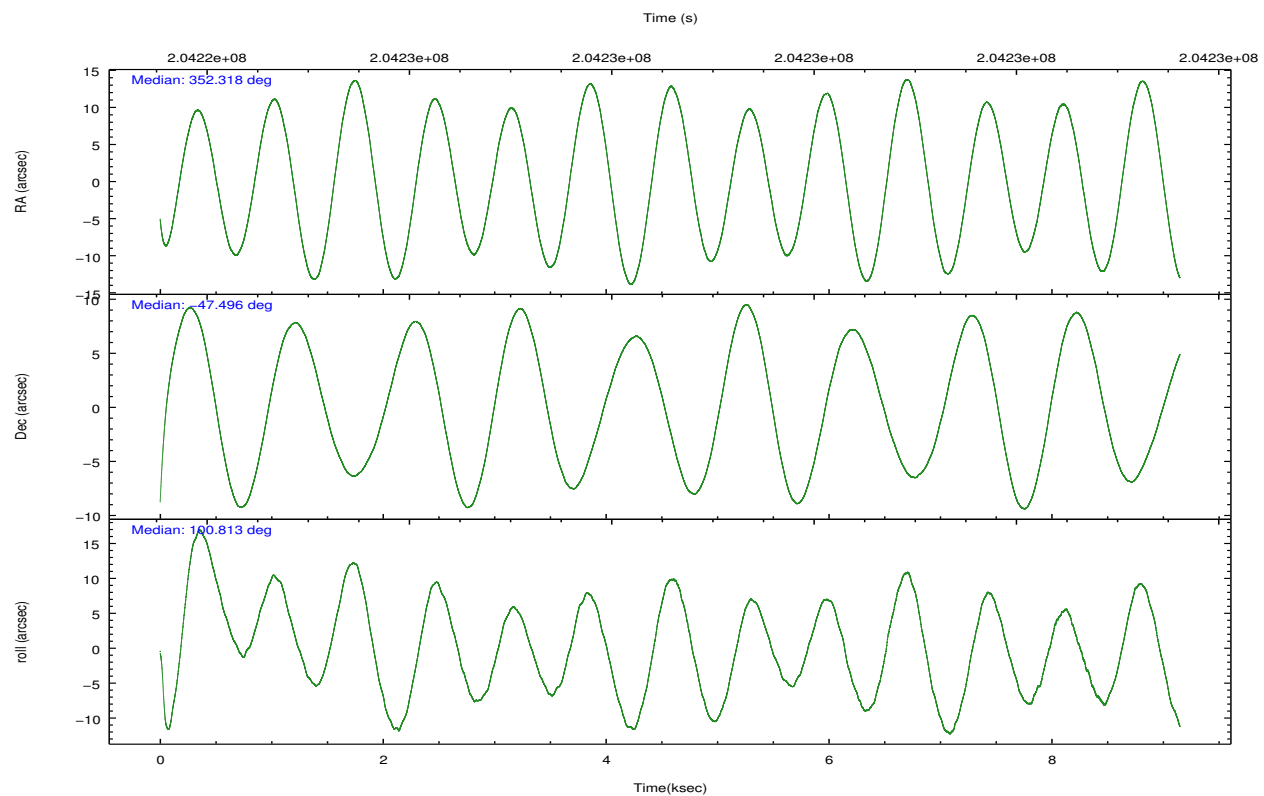


## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual               | Parameter                             | Planned   | Actual  |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument                        | ACIS                | ACIS                 | Obspar format version number          | 7         | 7       |
| Detector                          | ACIS-7              | ACIS-7               | Obspar file type                      | PREDICTED | ACTUAL  |
| Grating                           | NONE                | NONE                 | Obspar update status                  | NONE      | UPDATED |
| Data mode                         | FAINT               | FAINT                | Number of optional ACIS chips dropped | 0         | 0       |
| Observation mode                  | POINTING            | POINTING             | On-chip summing requested             | N         | N       |
| [deg] Pointing RA                 | 352.344274          | 352.3174984249302    | Subarray requested                    | CUSTOM    | 1/8     |
| [deg] Pointing Dec                | -47.516782          | -47.49638943119723   | Subarray start row                    | 1         | 1       |
| [deg] Pointing Roll               | 100.680215          | 100.8171179304632    | Subarray row count                    | 128       | 128     |
| [mm] SIM focus pos                | -0.684267           | -0.6828225247311905  | Alternating exposures requested       | N         | N       |
| [mm] SIM defocus                  | 0                   | 0.001444936568705701 | [s] Primary exposure time             | 0.000000  | 0.4     |
| [mm] SIM translation stage pos    | -178.632523         | -178.6370735452349   |                                       |           |         |
| [mm] SIM translation stage offset | -11.5               | -11.49544903777291   |                                       |           |         |
| [s] Observation start time (MET)  | 204224149.184000    | 204222226.52828      |                                       |           |         |
| Observation start date            | 2004-06-21T16:54:45 | 2004-06-21T16:23:46  |                                       |           |         |
| [s] Observation end time (MET)    | 204233149.184000    | 204233618.89129      |                                       |           |         |
| Observation end date              | 2004-06-21T19:24:45 | 2004-06-21T19:33:38  |                                       |           |         |
| Read mode                         | TIMED               | TIMED                |                                       |           |         |

## 2.3 Aspect



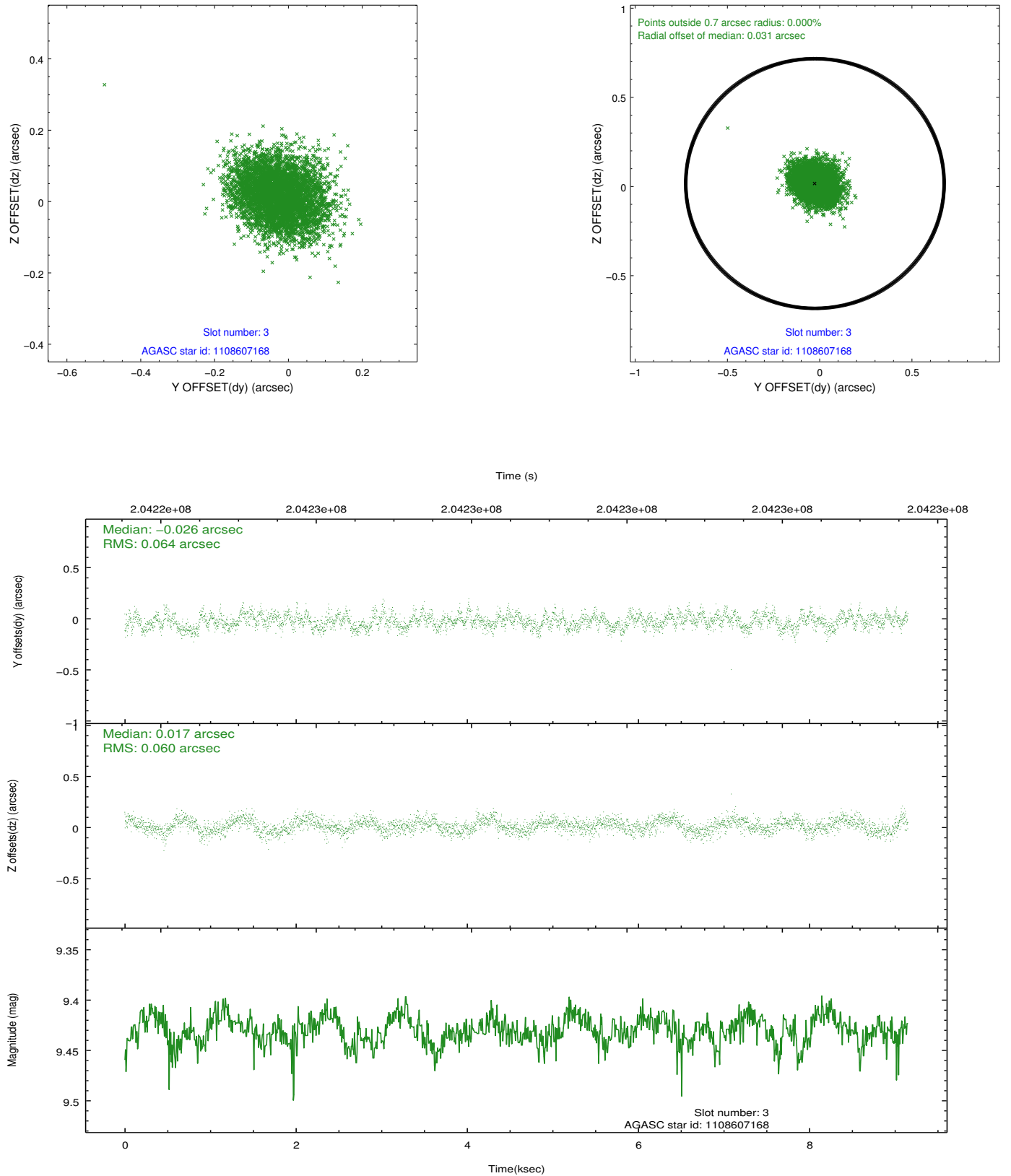


### Slot Statistics

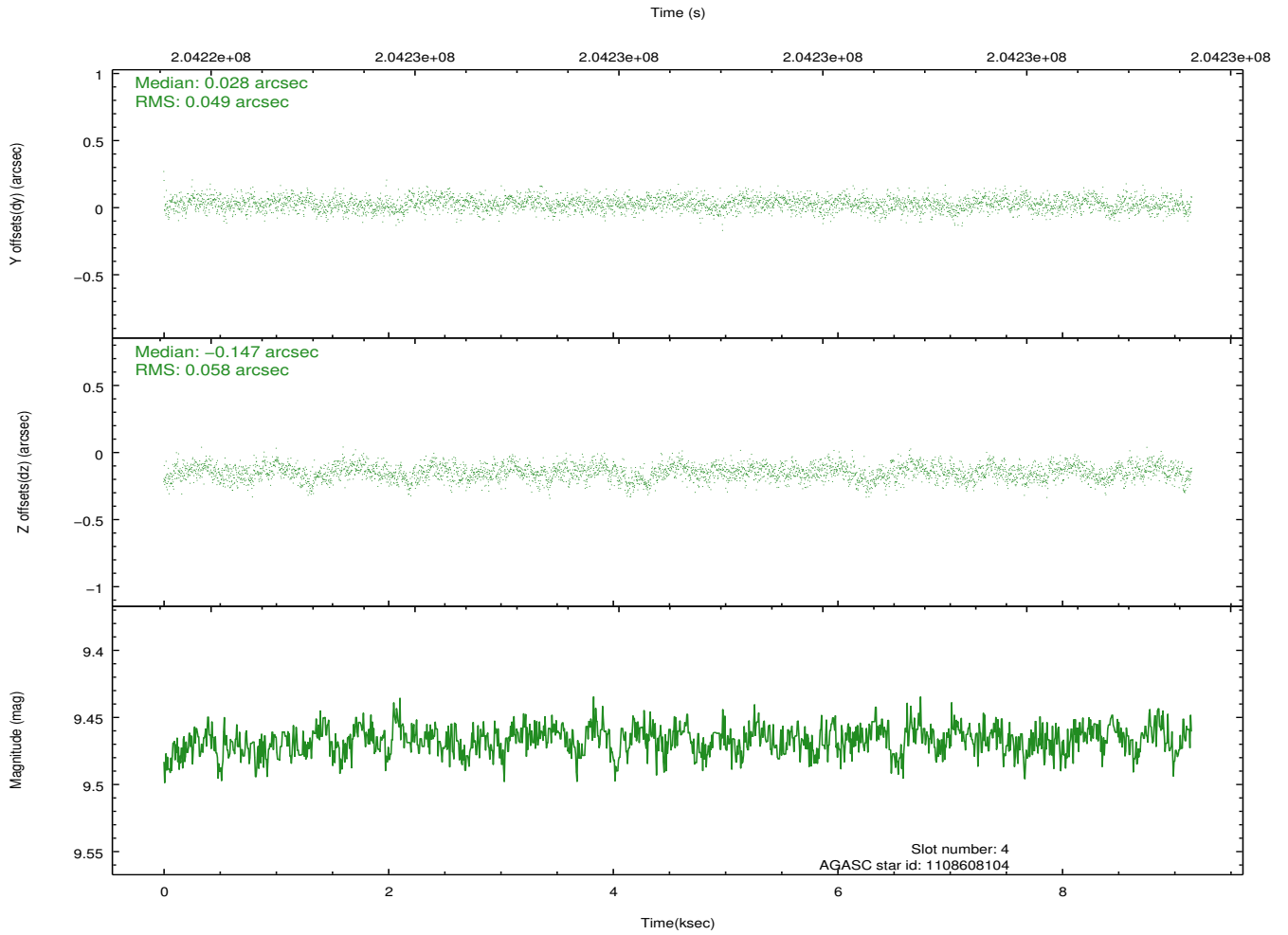
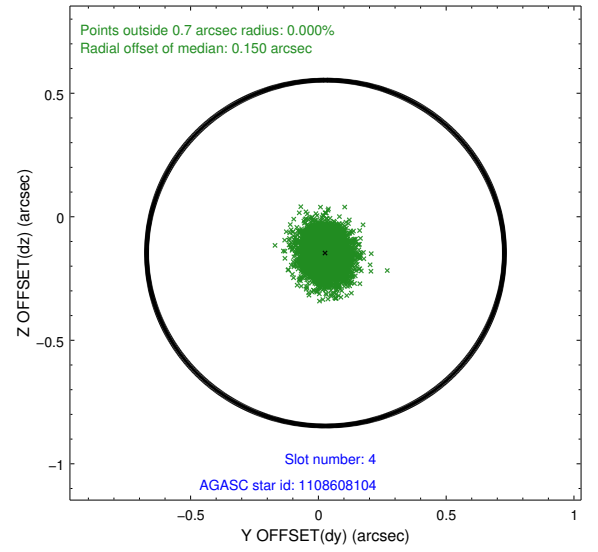
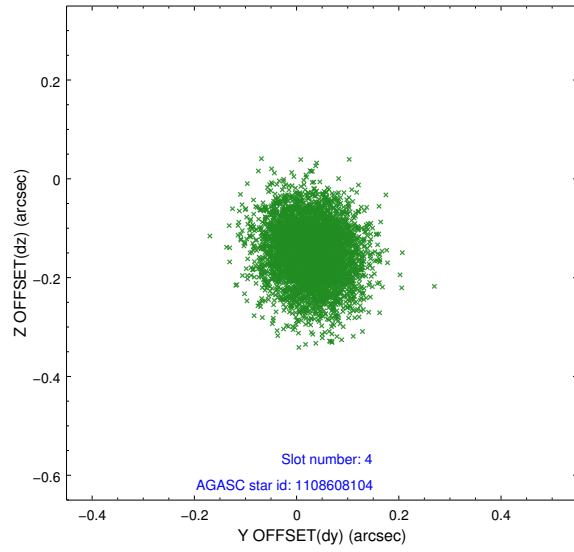
| slot | status | id         | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra         | dec        | mean_y   | mean_z   |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0    | FID    | ACIS-S-1   | 7.19 | 2232  | 0.119  | 0.096  | 0.007 | 0.012 | 0.000000   | 0.000000   | 937.59   | -1962.90 |
| 1    | FID    | ACIS-S-5   | 7.23 | 2232  | -0.122 | 0.137  | 0.006 | 0.010 | 0.000000   | 0.000000   | -1811.21 | -65.90   |
| 2    | FID    | ACIS-S-6   | 7.42 | 2232  | -0.019 | -0.223 | 0.008 | 0.013 | 0.000000   | 0.000000   | 402.50   | 578.26   |
| 3    | GUIDE  | 1108607168 | 9.43 | 4465  | -0.026 | 0.017  | 0.094 | 0.149 | 351.942816 | -47.842179 | -973.87  | 1171.10  |
| 4    | GUIDE  | 1108608104 | 9.47 | 4461  | 0.028  | -0.147 | 0.081 | 0.131 | 352.315972 | -47.534020 | -48.36   | 79.58    |
| 5    | GUIDE  | 1108608576 | 8.80 | 4462  | 0.036  | -0.201 | 0.086 | 0.134 | 351.682708 | -48.196987 | -2118.87 | 2015.23  |
| 6    | GUIDE  | 1108739984 | 8.71 | 4463  | -0.032 | 0.175  | 0.059 | 0.097 | 352.619085 | -47.570456 | -315.07  | -618.97  |
| 7    | GUIDE  | 1108741336 | 8.66 | 4463  | -0.004 | 0.155  | 0.058 | 0.093 | 352.973754 | -47.971233 | -1894.92 | -1186.47 |

## 2.4 Star Slots

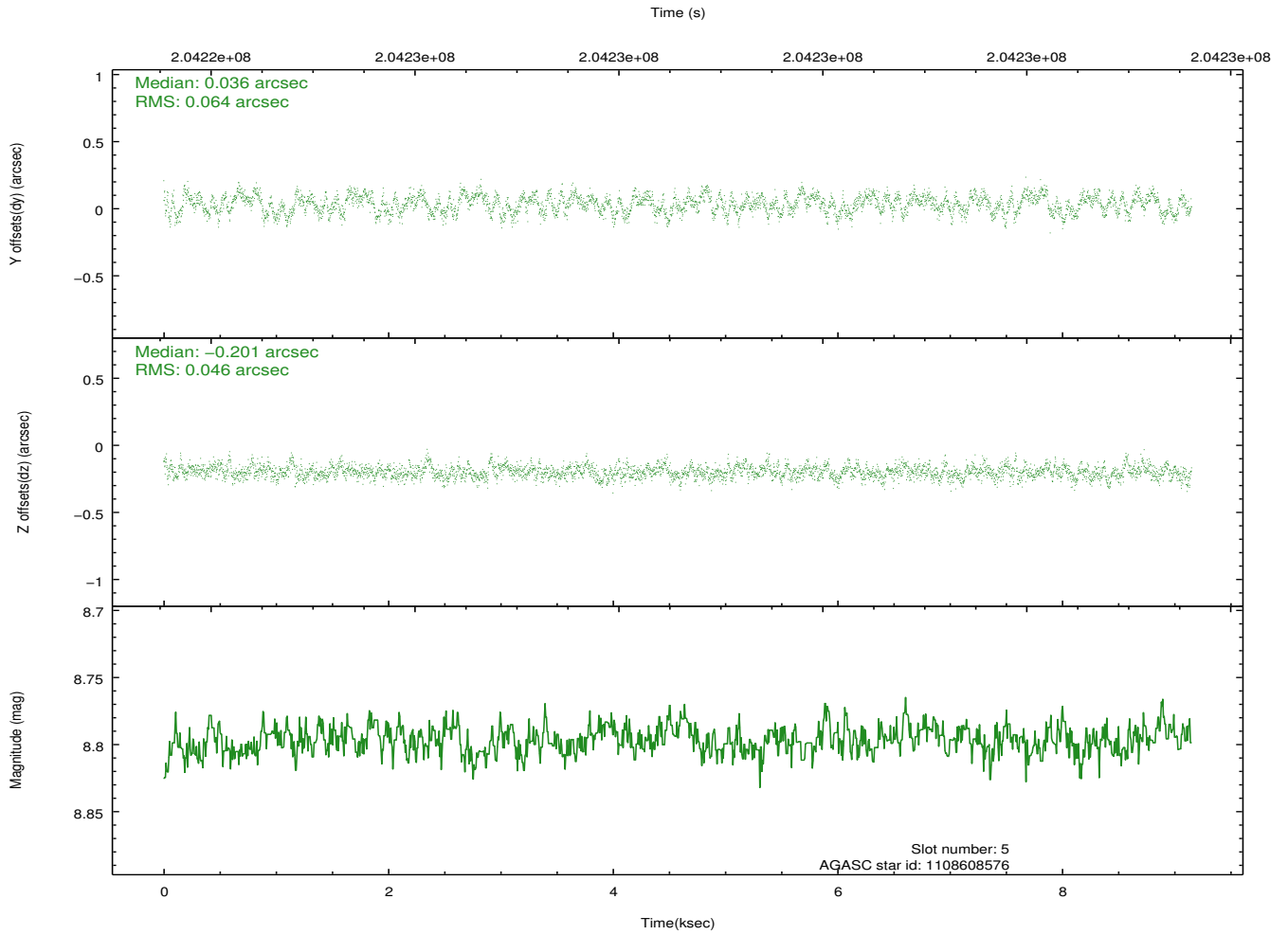
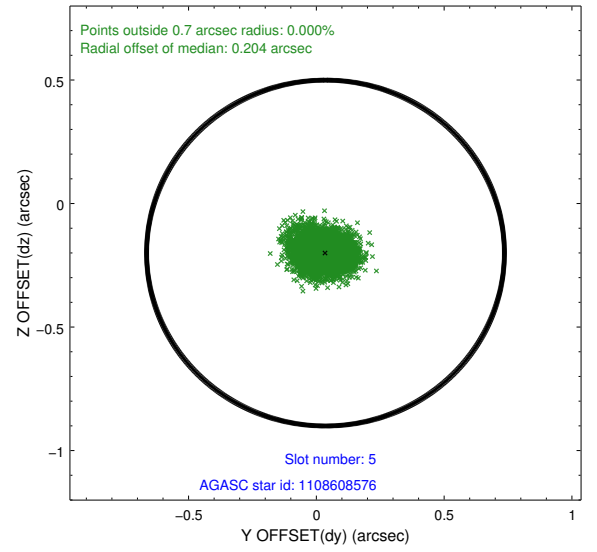
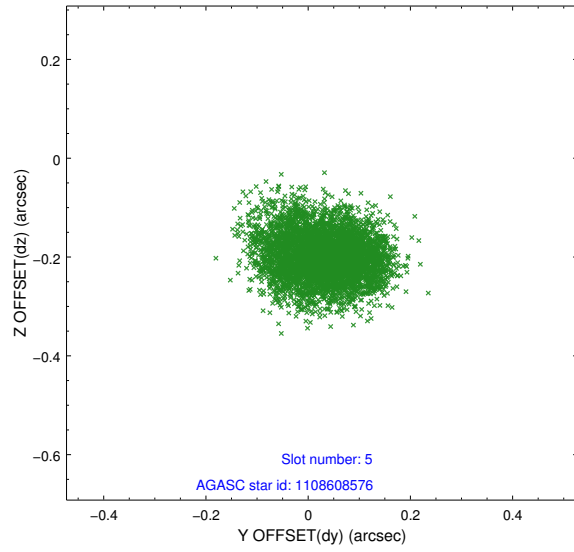
### 2.4.1 Slot 3



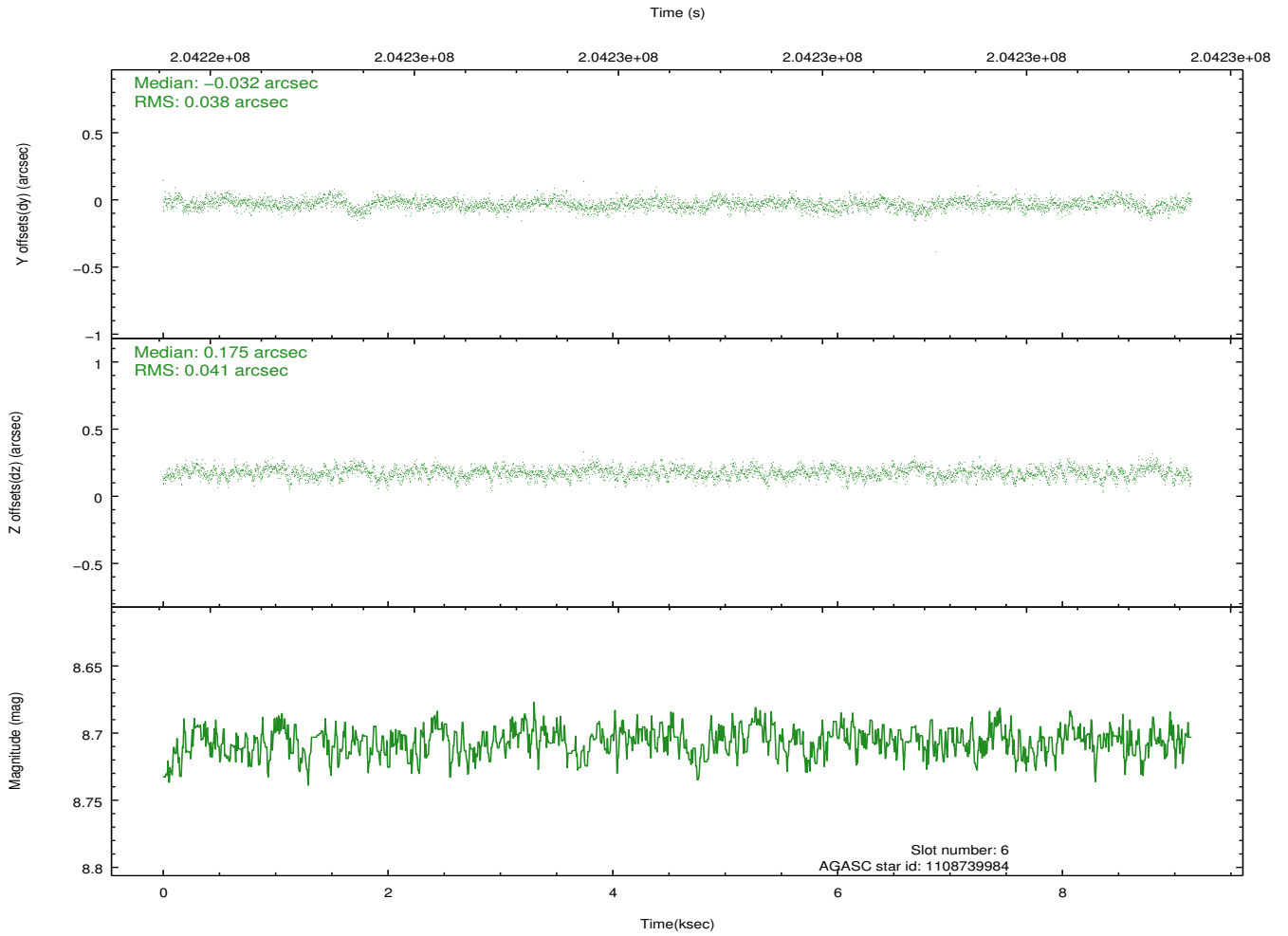
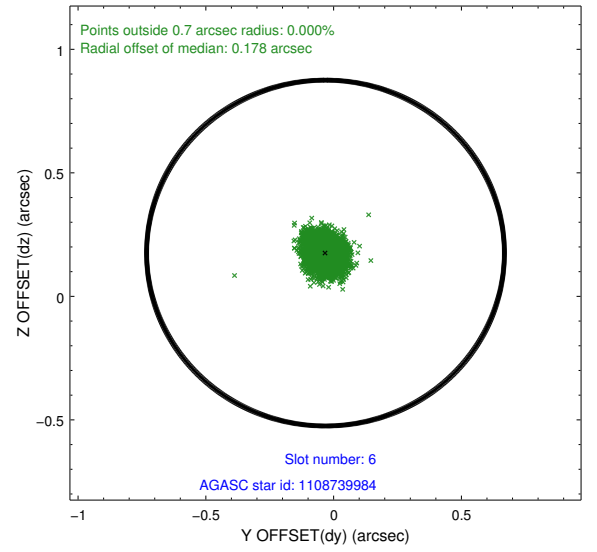
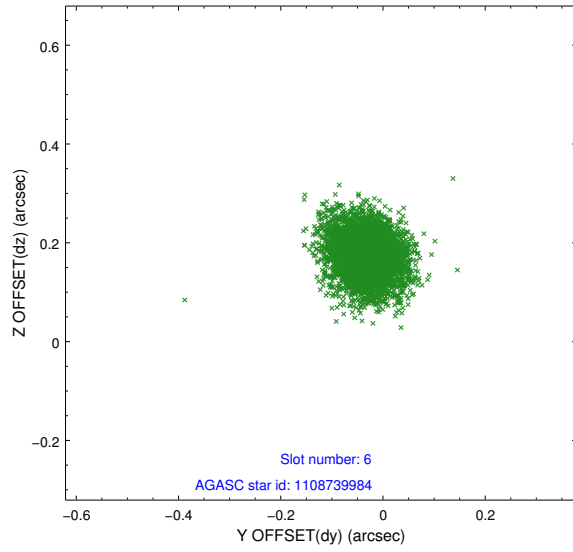
## 2.4.2 Slot 4



### 2.4.3 Slot 5

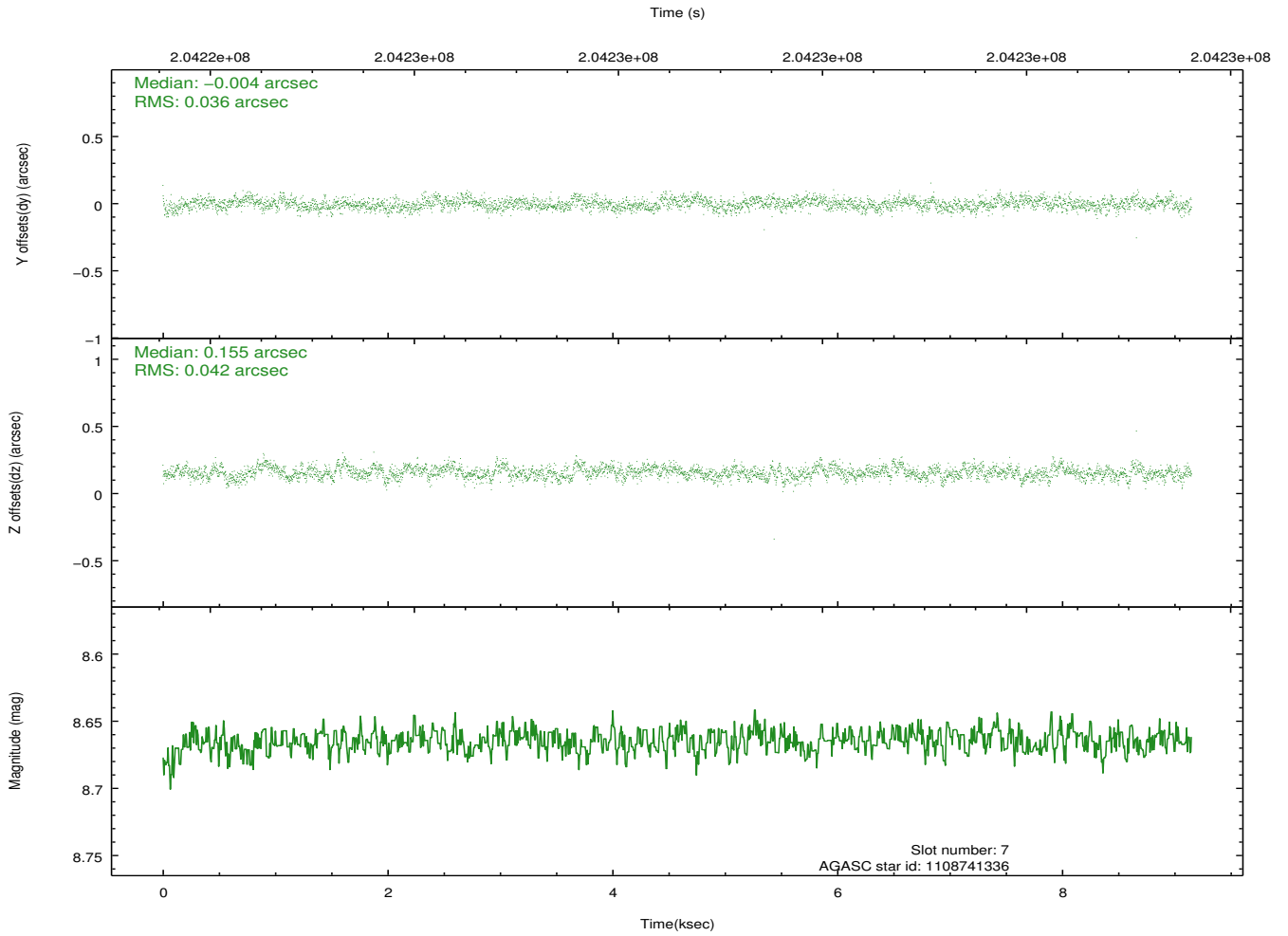
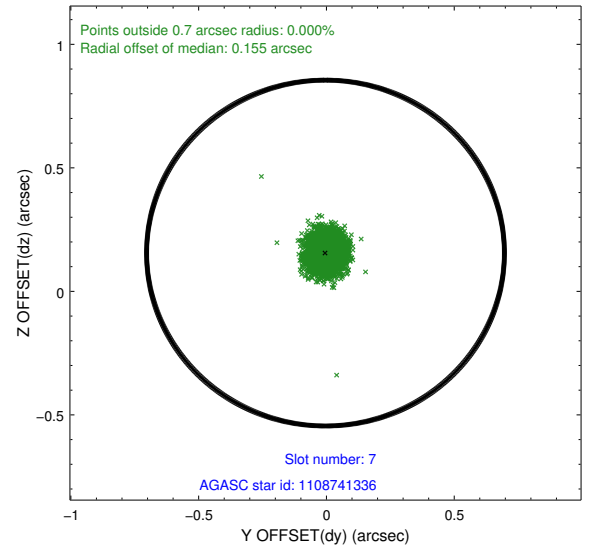
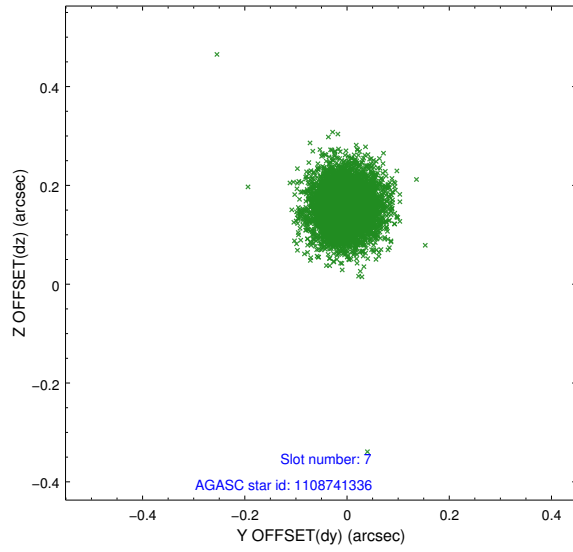


## 2.4.4 Slot 6



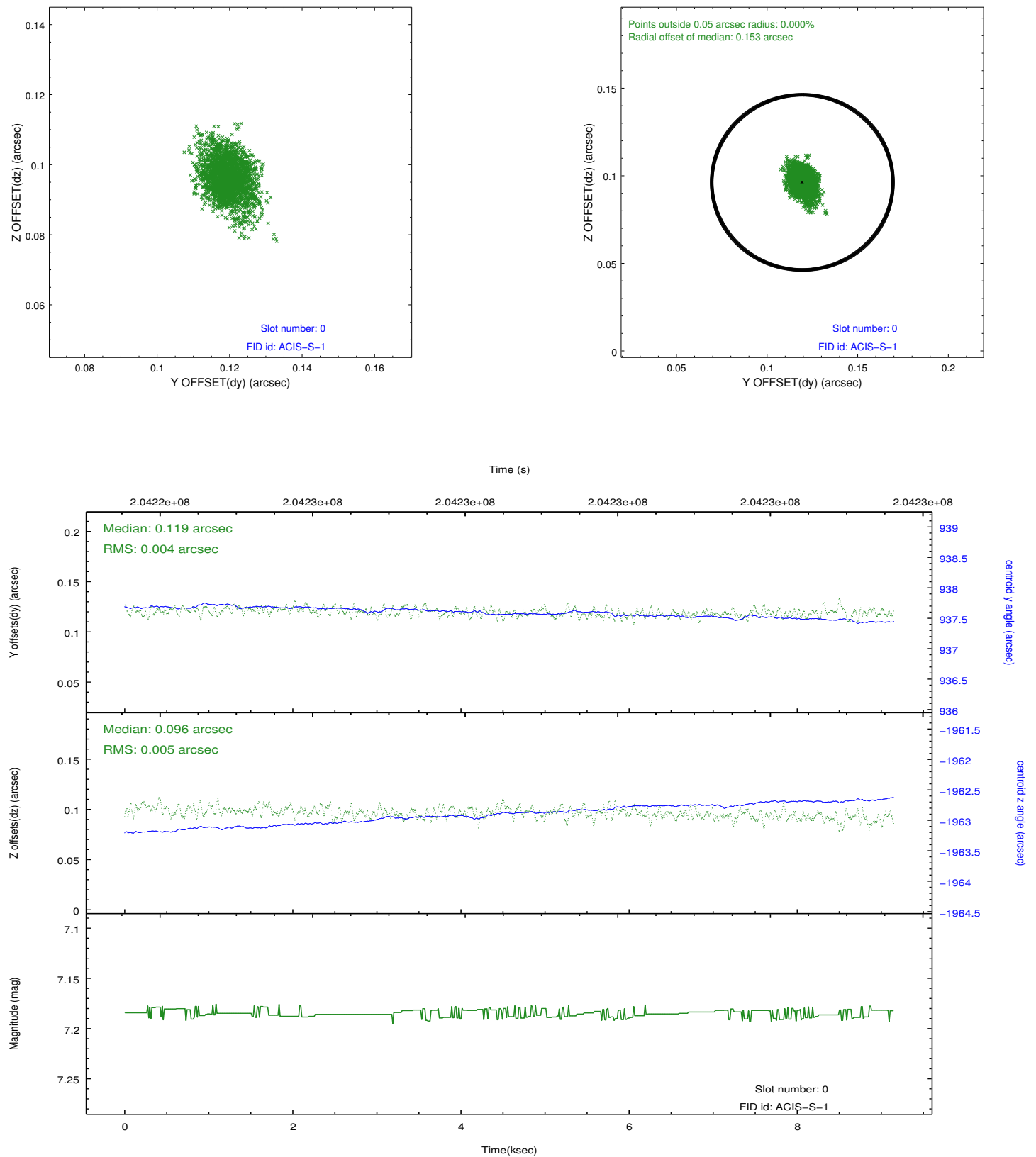


### 2.4.5 Slot 7

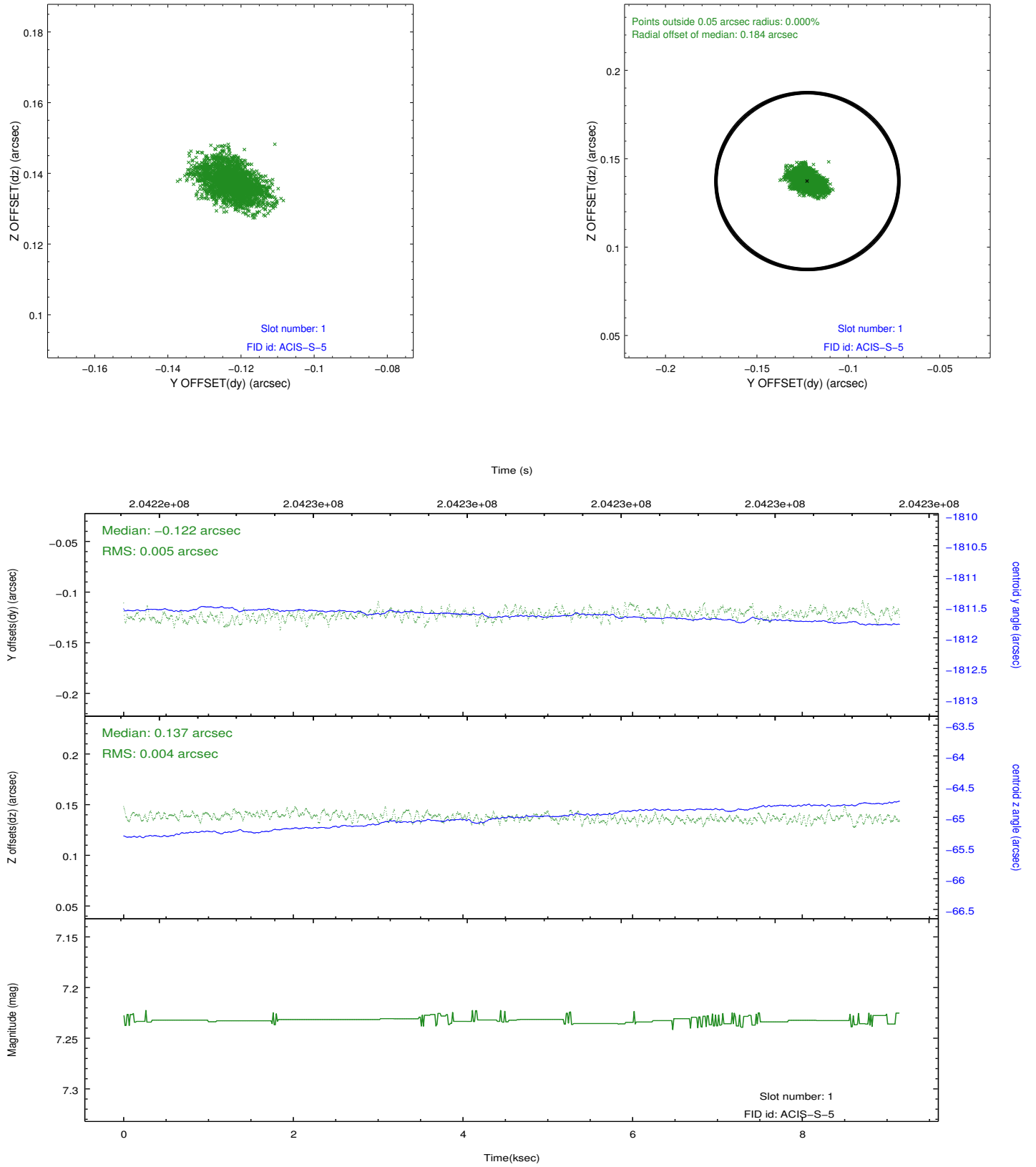


## 2.5 FID Slots

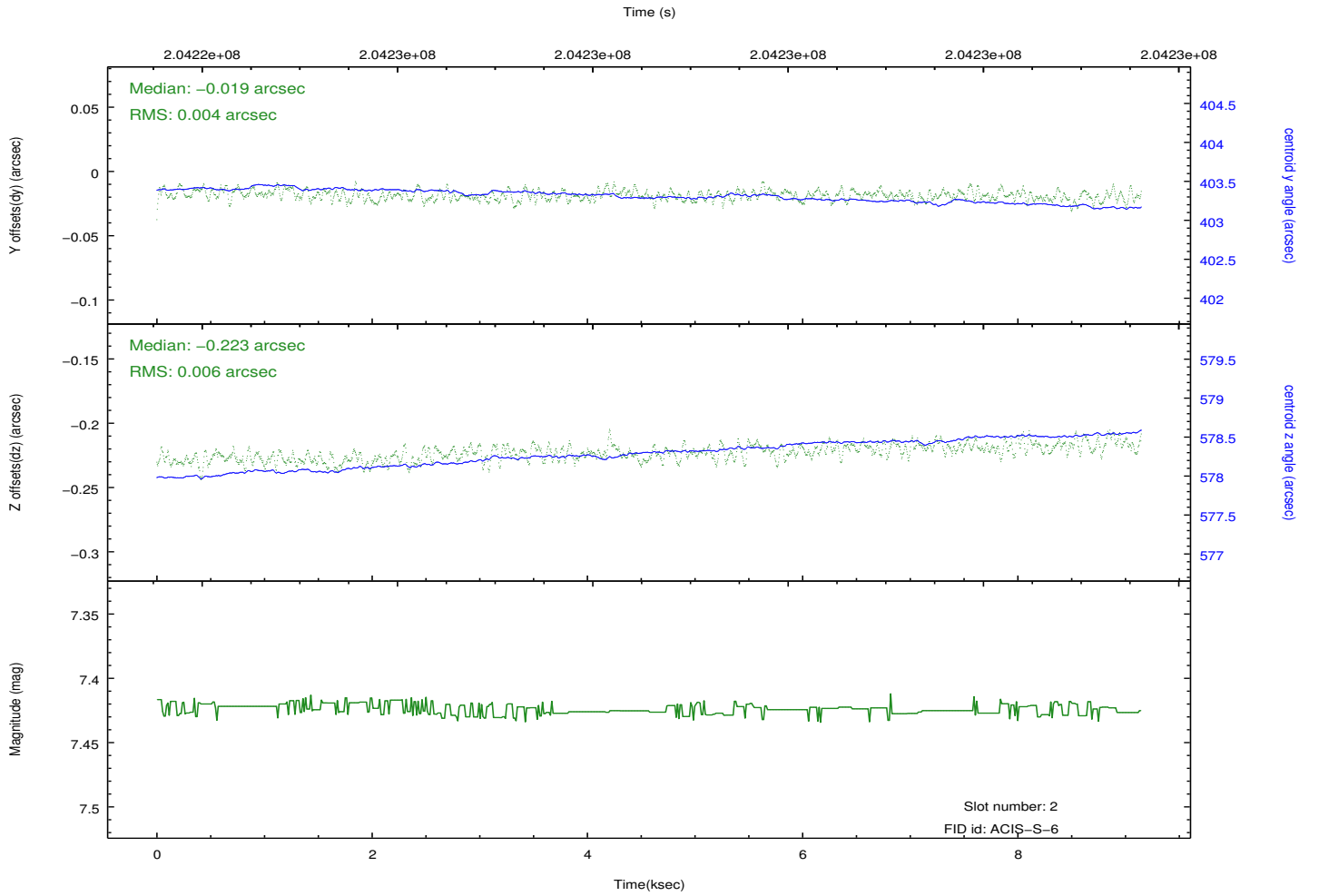
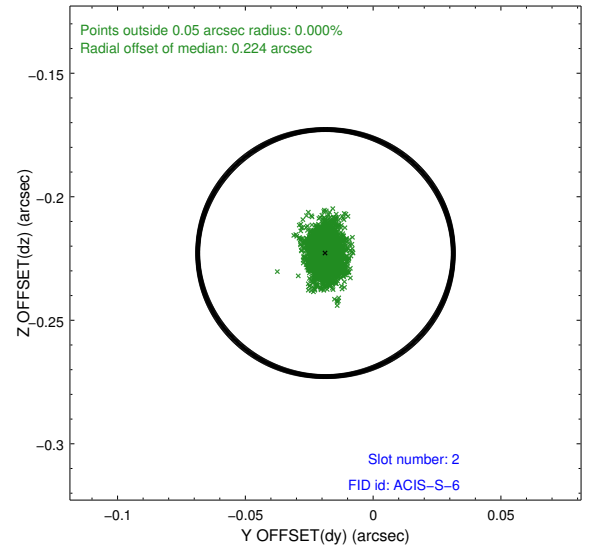
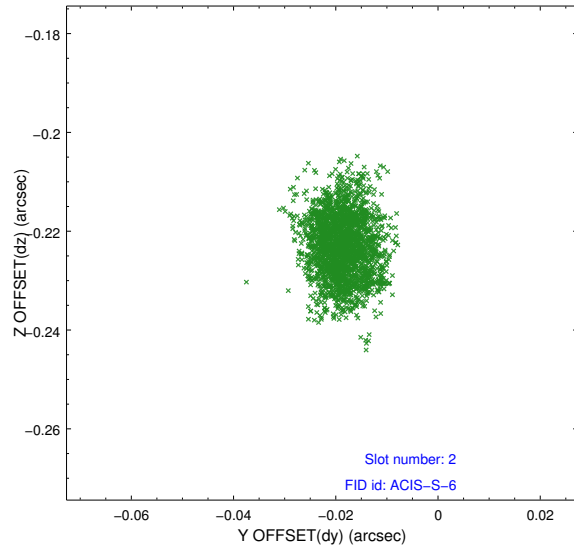
### 2.5.1 Slot 0



## 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)      | 2012.12.18 |
| V&V Edition                | 1          |
| V&V Disposition and Status | OK         |
| V&V Charge Time            | 9.15       |

### A.2 Comments