

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 4652 - L2 Version 001  
Chandra X-Ray Center

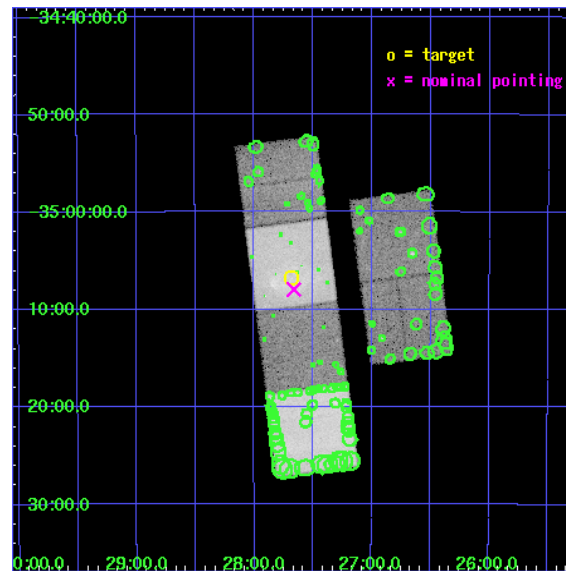
L2 Processing Date : Apr 16 2006

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# 1 Front

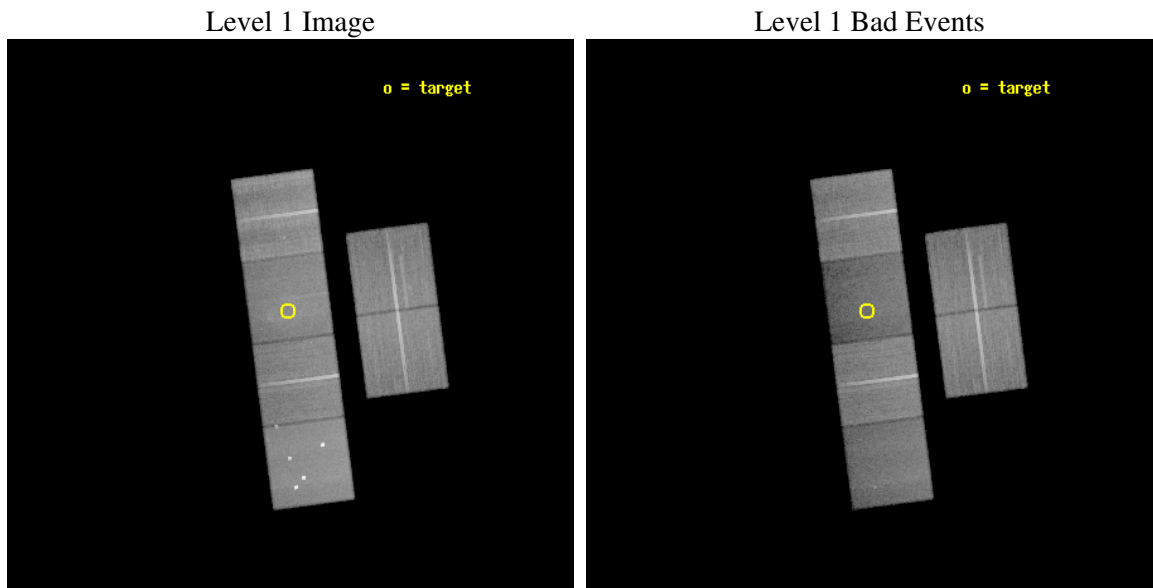
|          |   |
|----------|---|
| seq_num  | 500471  |
| obs_id   | 4652  |
| title    | Chandra Studies of New Galactic Ejecta-Dominated SNRS |
| observer | Prof. John Hughes                                     |
| object   | G352.7-0.1  |
| dtcycle  | 0   |
| cycle    | P   |
| ra_targ  | 261.920833  |
| dec_targ | -35.1125  |
| ra_nom   | 261.91548261598                                       |
| dec_nom  | -35.132776024215                                      |
| roll_nom | 262.59200771601                                       |
| revision | 2   |
| ontime   | 45155.199831784                                       |
| livetime | 44583.417502317                                       |
| ontime2  | 45148.717851341                                       |
| ontime3  | 45145.476990759                                       |
| ontime5  | 45155.199831784                                       |
| ontime6  | 45145.4768911   |
| ontime7  | 45155.199831784                                       |
| ontime8  | 45155.199831784                                       |
| l2events | 393633  |



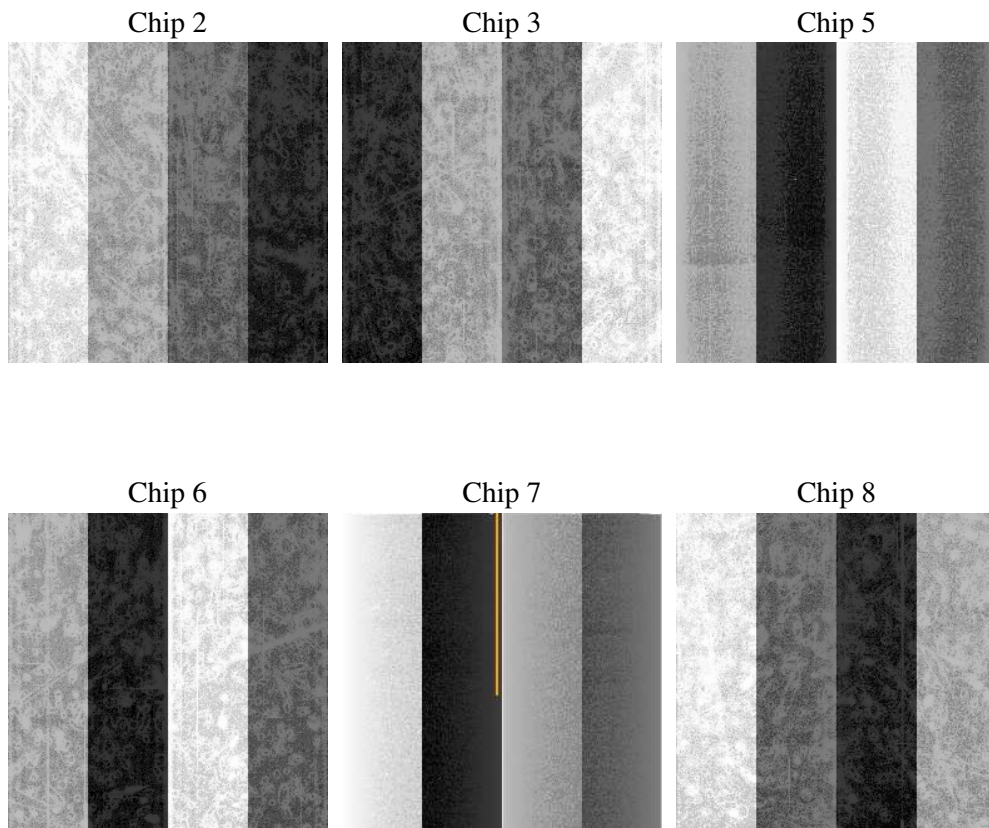
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

|          |                     |
|----------|---------------------|
| obi_num  | 0                   |
| ascdsver | 7.6.7.1             |
| caldbver | 3.2.1               |
| date     | 2006-04-16T23:50:50 |
| revision | 2                   |

|                |                 |
|----------------|-----------------|
| sched_exp_time | 45000.000000    |
| ontime         | 45250.86758247  |
| ontime2        | 45244.385602027 |
| ontime3        | 45241.144741446 |
| ontime5        | 45250.86758247  |
| ontime6        | 45241.144641787 |
| ontime7        | 45250.86758247  |
| ontime8        | 45250.86758247  |
| l1events       | 1850947         |

### 2.1.4 Events

|                 | ccd 2  | ccd 3  | ccd 5  | ccd 6  | ccd 7  | ccd 8  |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events  | 306279 | 279625 | 356836 | 287986 | 272442 | 347779 |
| rejected events | 277930 | 252466 | 163484 | 256971 | 139623 | 266914 |
| rejected %      | 90%    | 90%    | 45%    | 89%    | 51%    | 76%    |

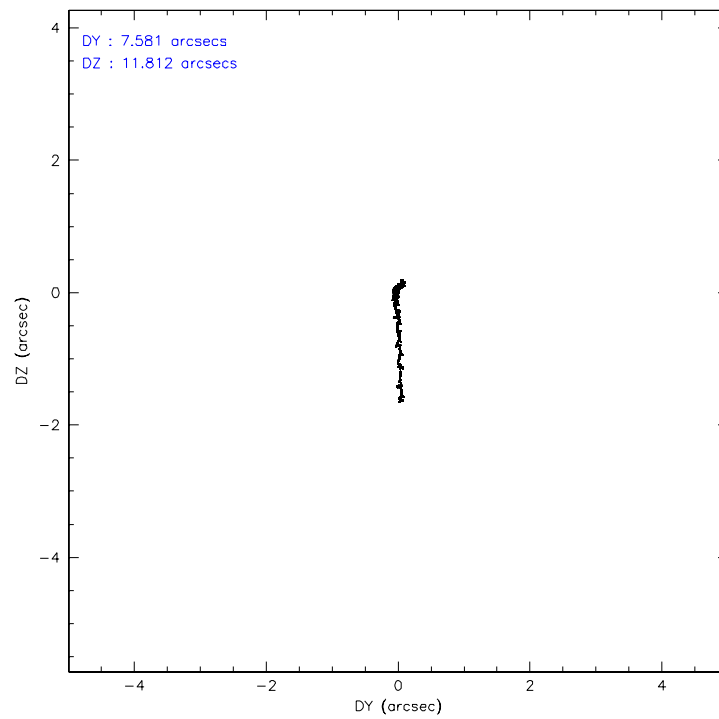
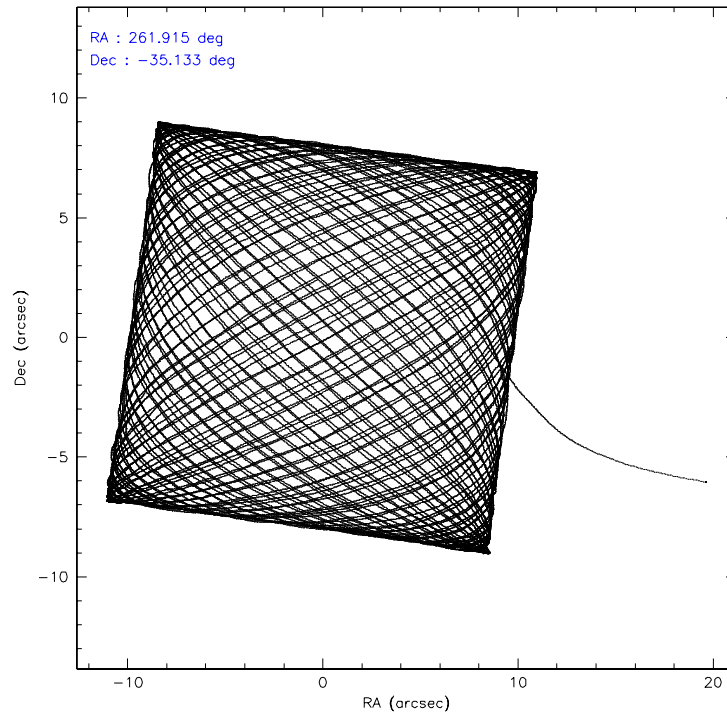
|                | ccd 2  | ccd 3  | ccd 5  | ccd 6  | ccd 7  | ccd 8  |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 11247  | 10659  | 31457  | 12435  | 10618  | 23247  |
|                | 3%     | 3%     | 8%     | 4%     | 3%     | 6%     |
| grade 1 events | 166    | 139    | 427    | 148    | 175    | 245    |
|                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     |
| grade 2 events | 6556   | 5581   | 58089  | 6434   | 34632  | 18604  |
|                | 2%     | 1%     | 16%    | 2%     | 12%    | 5%     |
| grade 3 events | 2945   | 3125   | 4985   | 3369   | 8925   | 9162   |
|                | 0%     | 1%     | 1%     | 1%     | 3%     | 2%     |
| grade 4 events | 2985   | 3059   | 4945   | 3252   | 8995   | 8499   |
|                | 0%     | 1%     | 1%     | 1%     | 3%     | 2%     |
| grade 5 events | 8081   | 9075   | 19015  | 9541   | 21621  | 14176  |
|                | 2%     | 3%     | 5%     | 3%     | 7%     | 4%     |
| grade 6 events | 4678   | 4797   | 94258  | 5596   | 69962  | 21441  |
|                | 1%     | 1%     | 26%    | 1%     | 25%    | 6%     |
| grade 7 events | 269621 | 243190 | 143660 | 247211 | 117514 | 252405 |
|                | 88%    | 86%    | 40%    | 85%    | 43%    | 72%    |

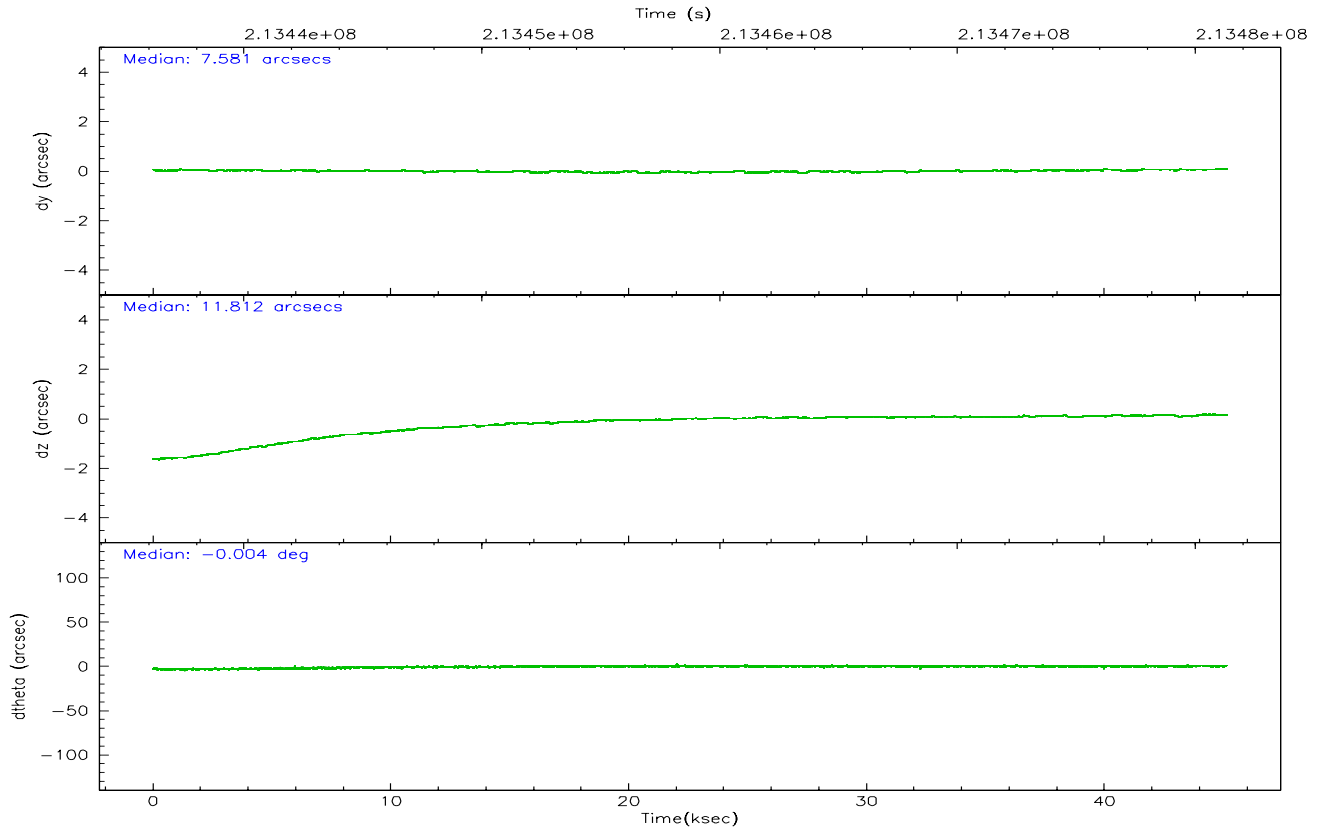
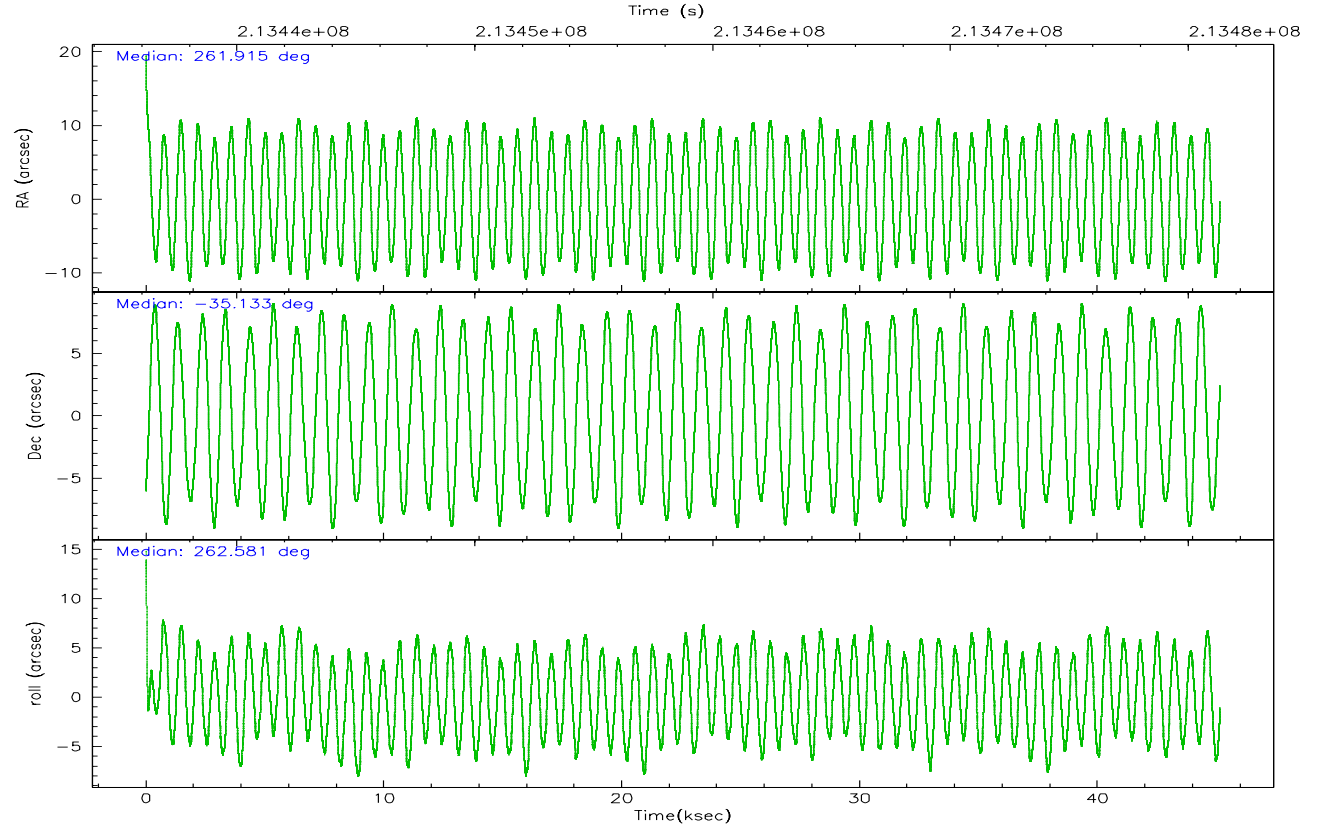


## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual               | Parameter                       | Planned   | Actual  |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument                        | ACIS                | ACIS                 | Obspar format version number    | 6         | 6       |
| Detector                          | ACIS-235678         | ACIS-235678          | Obspar file type                | PREDICTED | ACTUAL  |
| Grating                           | NONE                | NONE                 | Obspar update status            | NONE      | UPDATED |
| Data mode                         | VFAINT              | VFAINT               | On-chip summing requested       | N         | N       |
| Observation mode                  | POINTING            | POINTING             | Subarray requested              | NONE      | NONE    |
| Pointing RA                       | 261.902279          | 261.9154826159815    | Alternating exposures requested | N         | N       |
| Pointing Dec                      | -35.107796          | -35.132776024215     | Primary exposure time           | 0.000000  | 3.2     |
| Pointing Roll                     | 262.427788          | 262.5920077160072    |                                 |           |         |
| SIM focus pos (mm)                | -0.684267           | -0.6828225247311905  |                                 |           |         |
| SIM defocus (mm)                  | 0                   | 0.001444936568705701 |                                 |           |         |
| SIM translation stage pos (mm)    | -190.132523         | -190.1400660498719   |                                 |           |         |
| SIM translation stage offset (mm) | 0                   | 0.00754346686406393  |                                 |           |         |
| Observation start time            | 213436345.184000    | 213435233.9258       |                                 |           |         |
| Observation start date            | 2004-10-06T07:51:21 | 2004-10-06T07:33:53  |                                 |           |         |
| Observation end time              | 213481345.184000    | 213482117.94039      |                                 |           |         |
| Observation end date              | 2004-10-06T20:21:21 | 2004-10-06T20:35:17  |                                 |           |         |
| Read mode                         | TIMED               | TIMED                |                                 |           |         |

## 2.3 Aspect



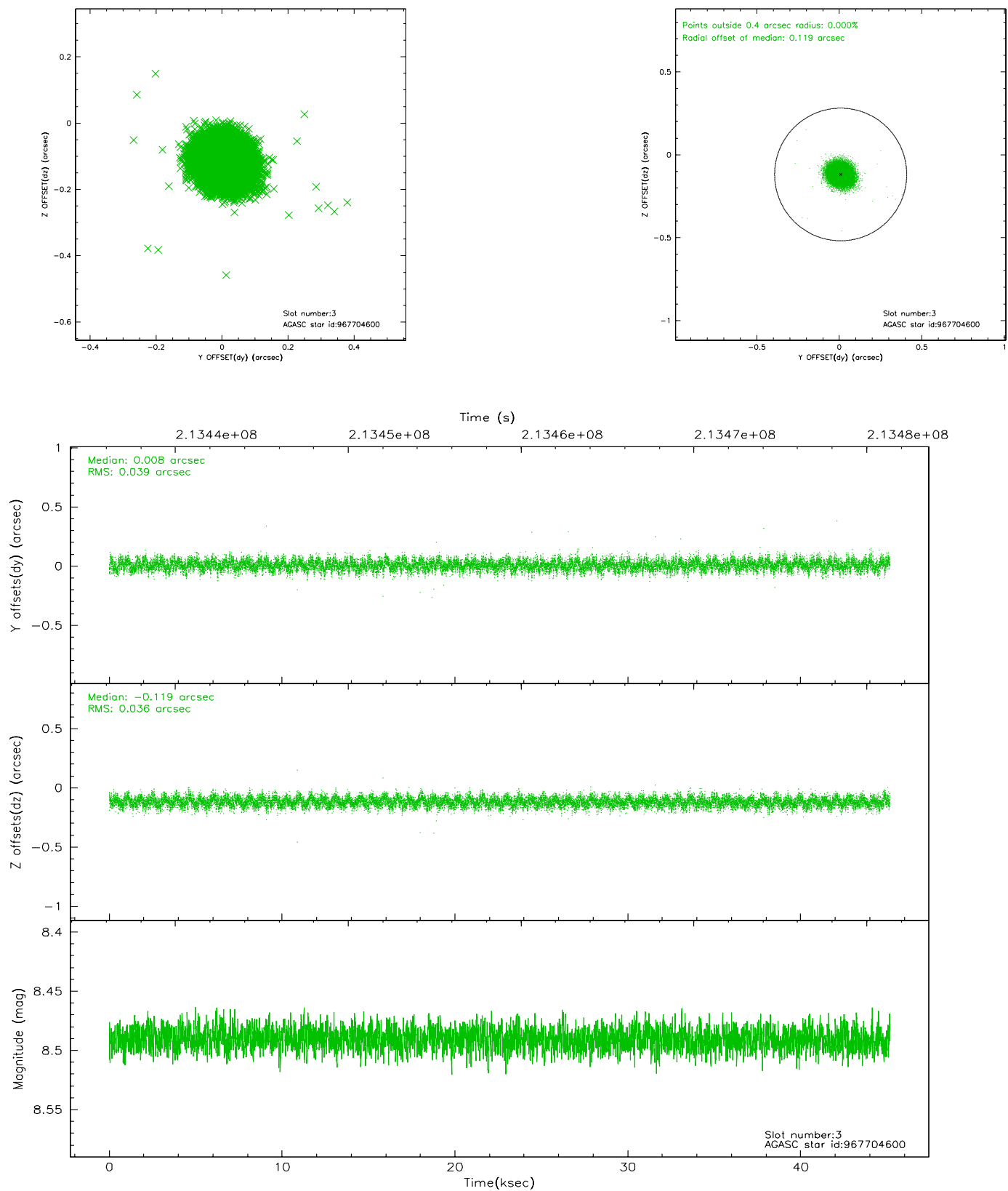


### Slot Statistics

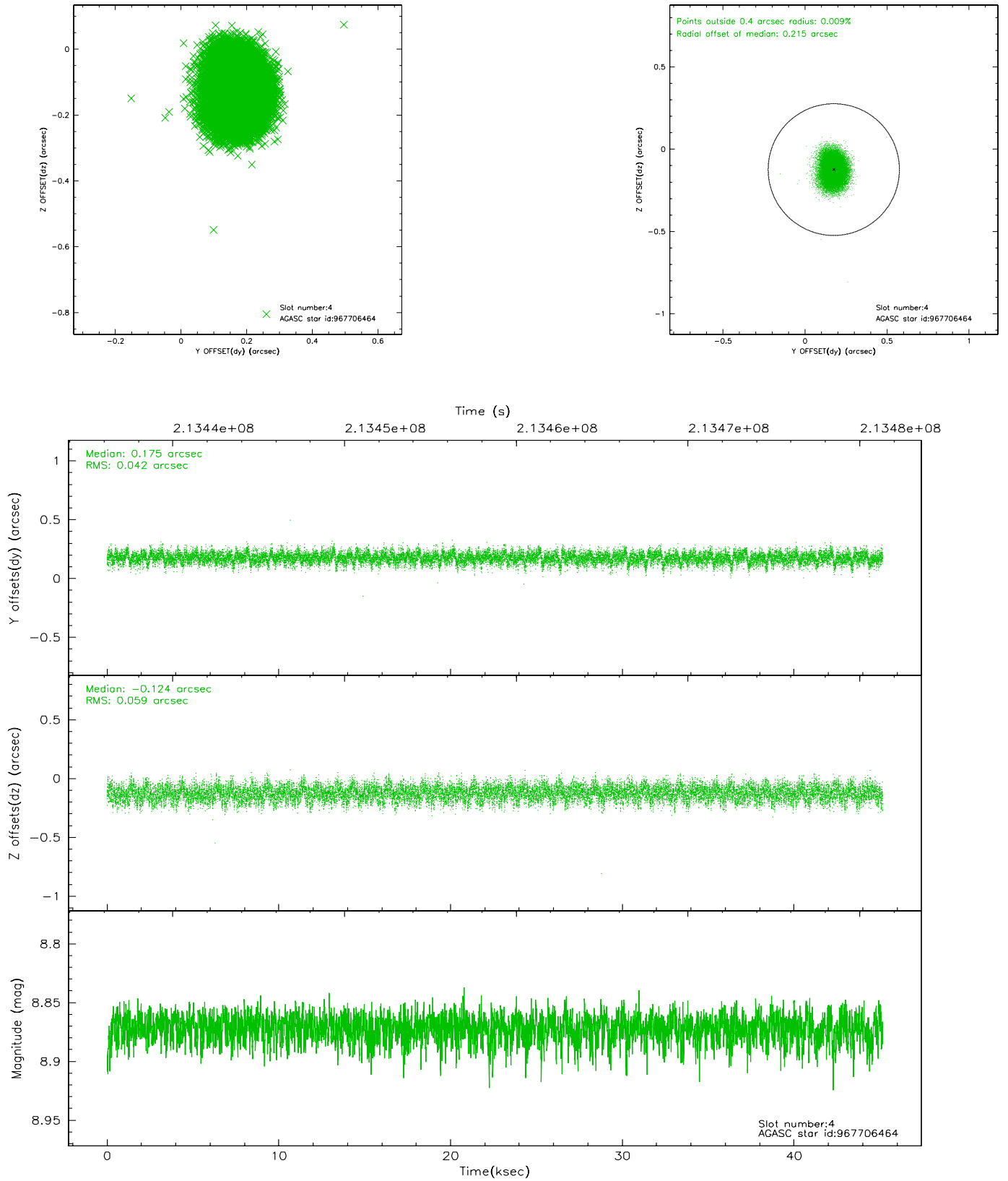
| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra         | dec        | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0    | FID    | ACIS-S-1  | 7.18 | 11015 | 0.014  | -0.064 | 0.010 | 0.035 | 0.000000   | 0.000000   | 935.65   | -1728.57 |
| 1    | FID    | ACIS-S-2  | 7.10 | 11014 | -0.042 | 0.019  | 0.009 | 0.034 | 0.000000   | 0.000000   | -760.31  | -1732.99 |
| 2    | FID    | ACIS-S-4  | 7.20 | 11016 | -0.000 | 0.051  | 0.011 | 0.027 | 0.000000   | 0.000000   | 2152.93  | 175.68   |
| 3    | GUIDE  | 967704600 | 8.49 | 22016 | 0.008  | -0.119 | 0.056 | 0.091 | 262.063091 | -34.610970 | -1835.16 | 236.73   |
| 4    | GUIDE  | 967706464 | 8.87 | 22028 | 0.175  | -0.124 | 0.076 | 0.125 | 261.477528 | -34.851379 | -746.44  | -1364.92 |
| 5    | GUIDE  | 967707112 | 9.42 | 22009 | 0.075  | 0.124  | 0.088 | 0.140 | 262.317974 | -34.973313 | -638.91  | 1152.58  |
| 6    | GUIDE  | 967708192 | 8.86 | 22016 | -0.175 | -0.056 | 0.068 | 0.108 | 261.540547 | -34.557389 | -1820.65 | -1323.85 |
| 7    | GUIDE  | 967705352 | 7.66 | 22027 | -0.085 | 0.175  | 0.059 | 0.094 | 262.627740 | -34.539041 | -2305.77 | 1864.06  |

## 2.4 Star Slots

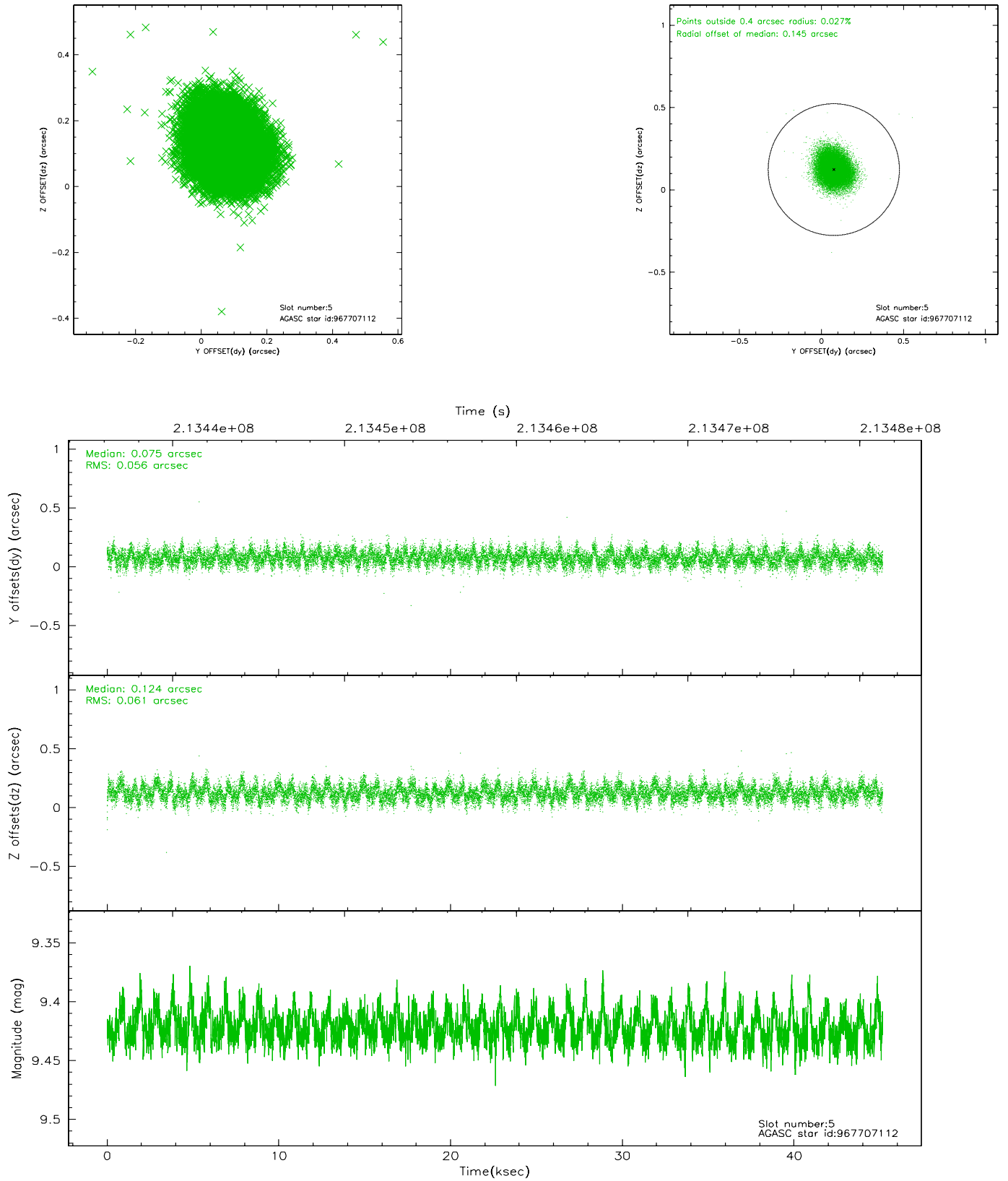
### 2.4.1 Slot 3



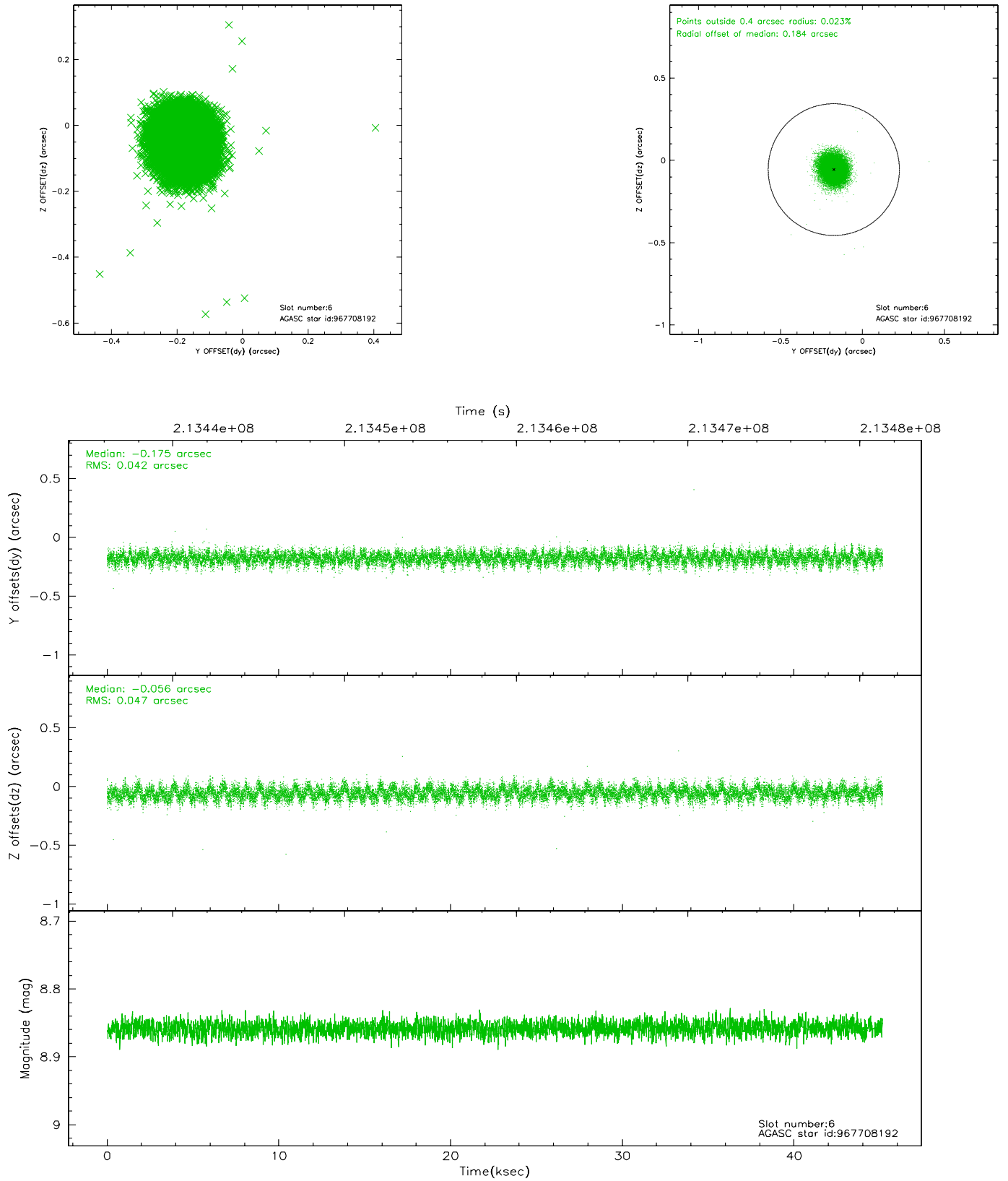
## 2.4.2 Slot 4



### 2.4.3 Slot 5

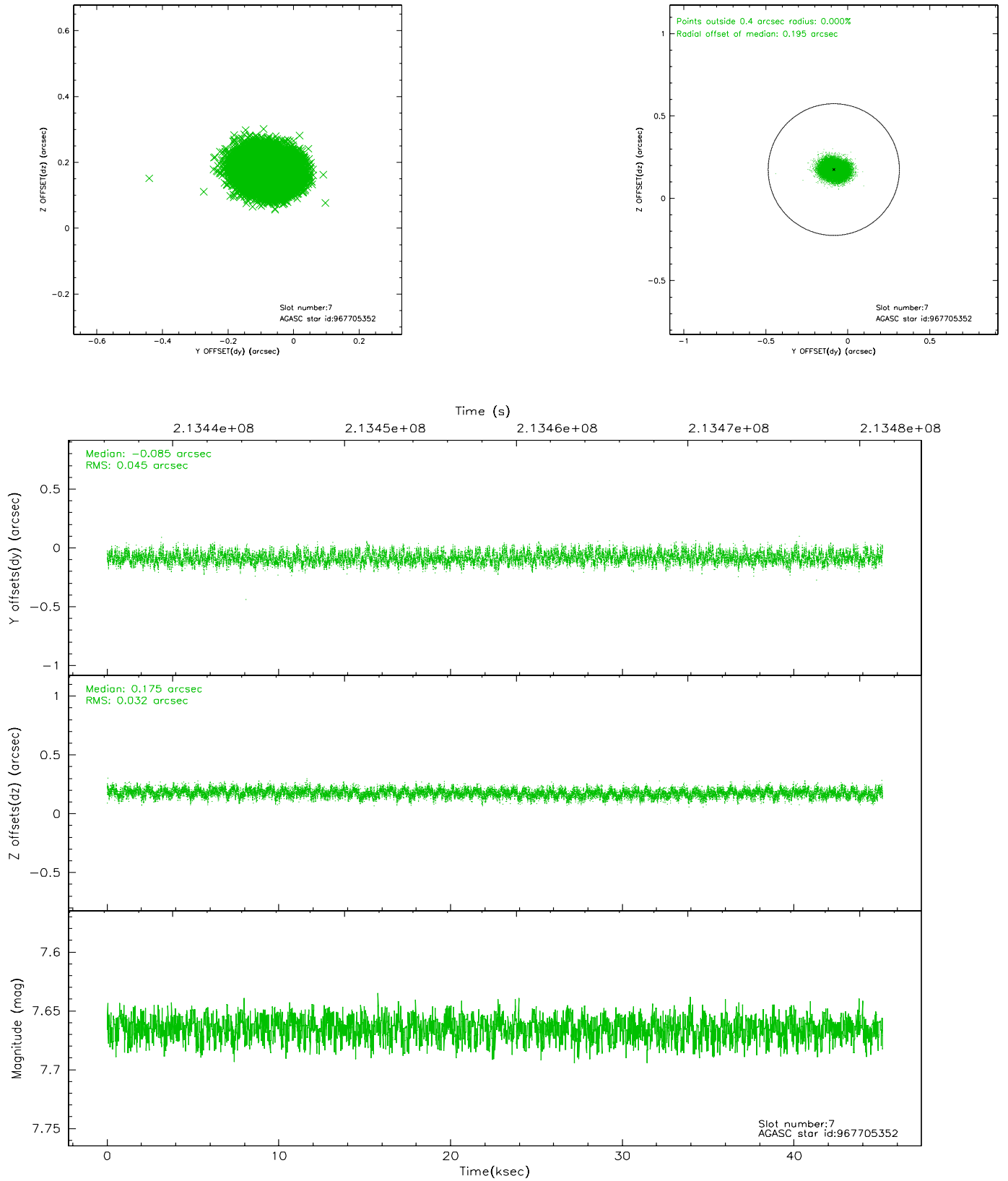


## 2.4.4 Slot 6



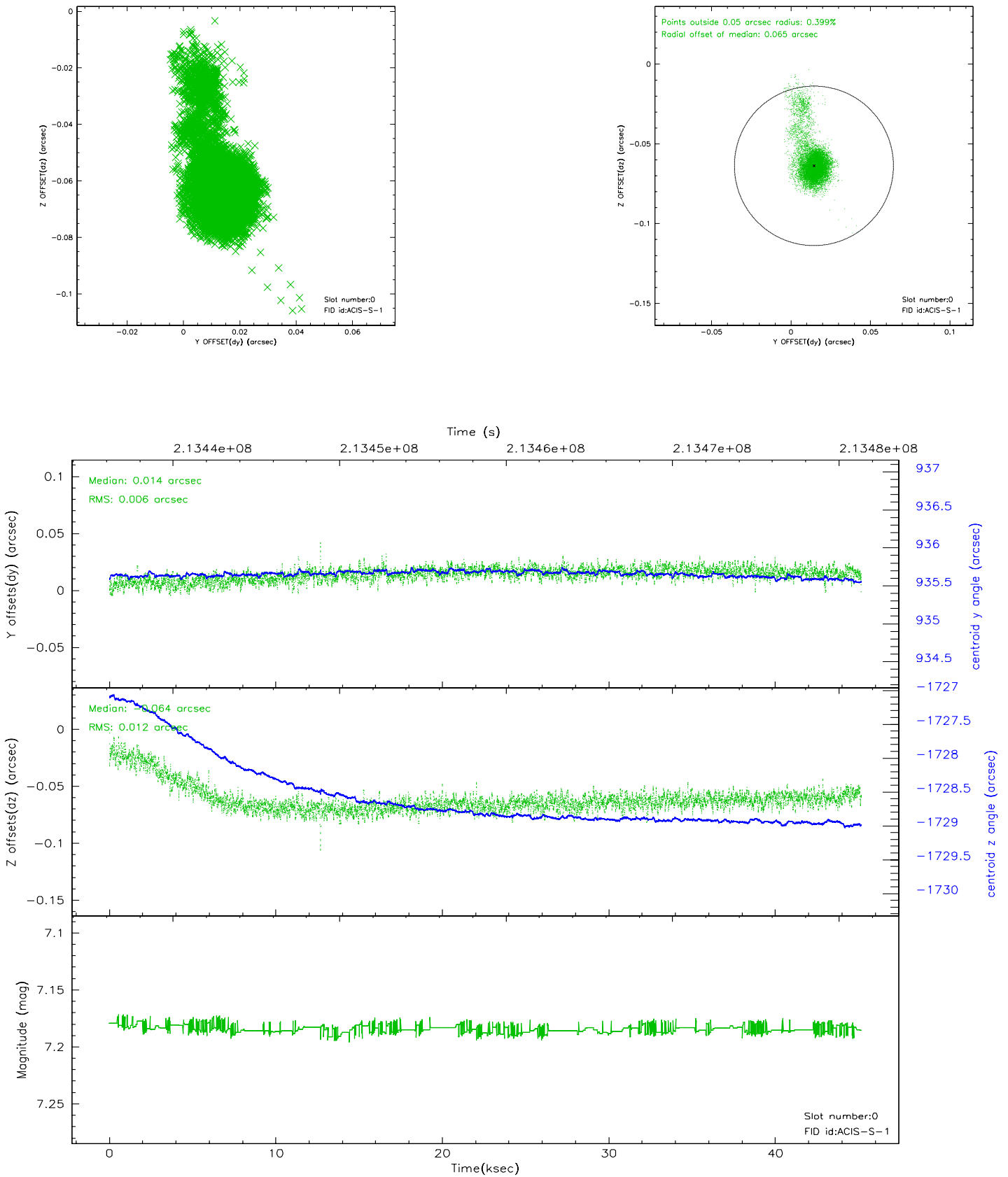


## 2.4.5 Slot 7

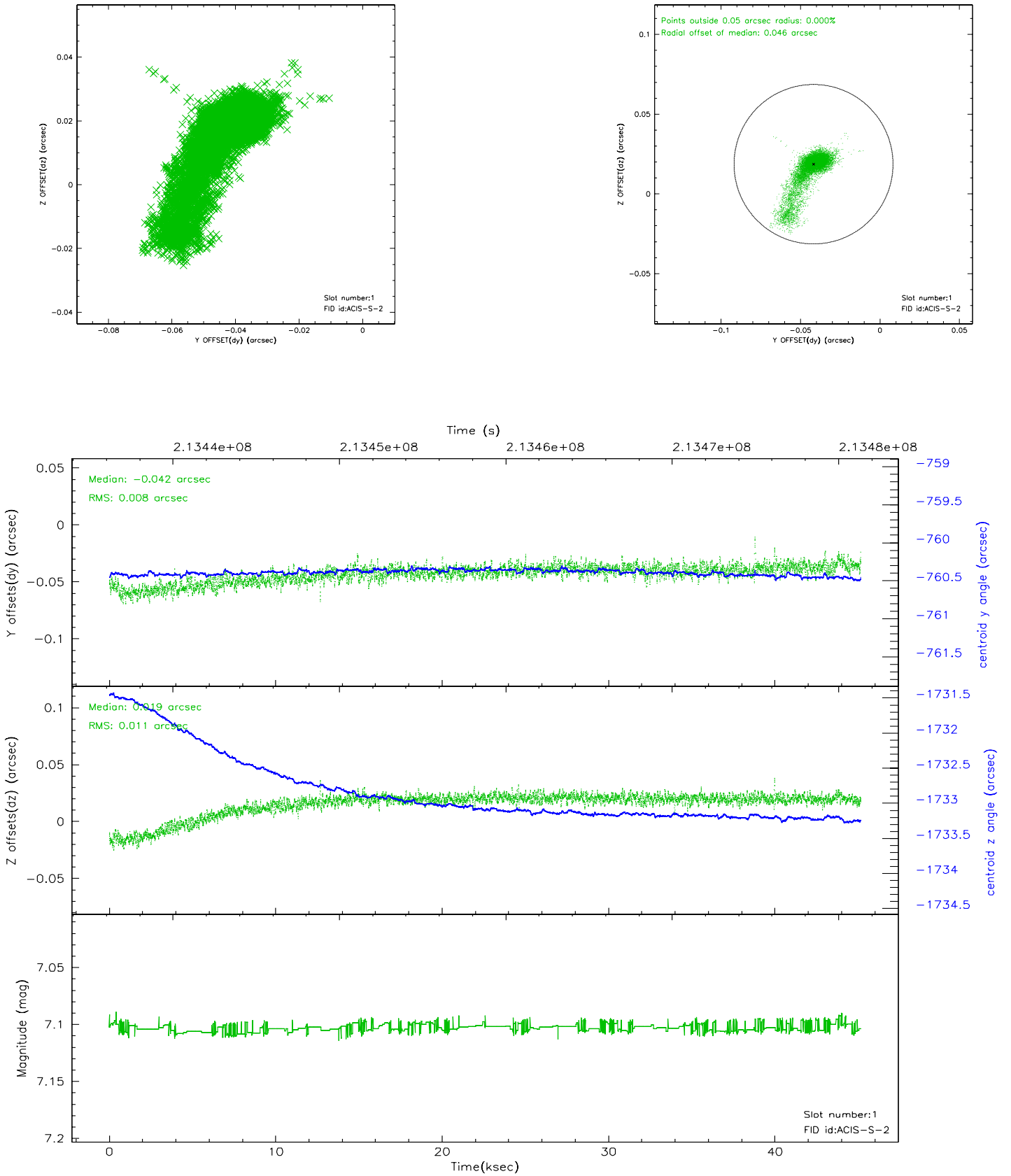


## 2.5 FID Slots

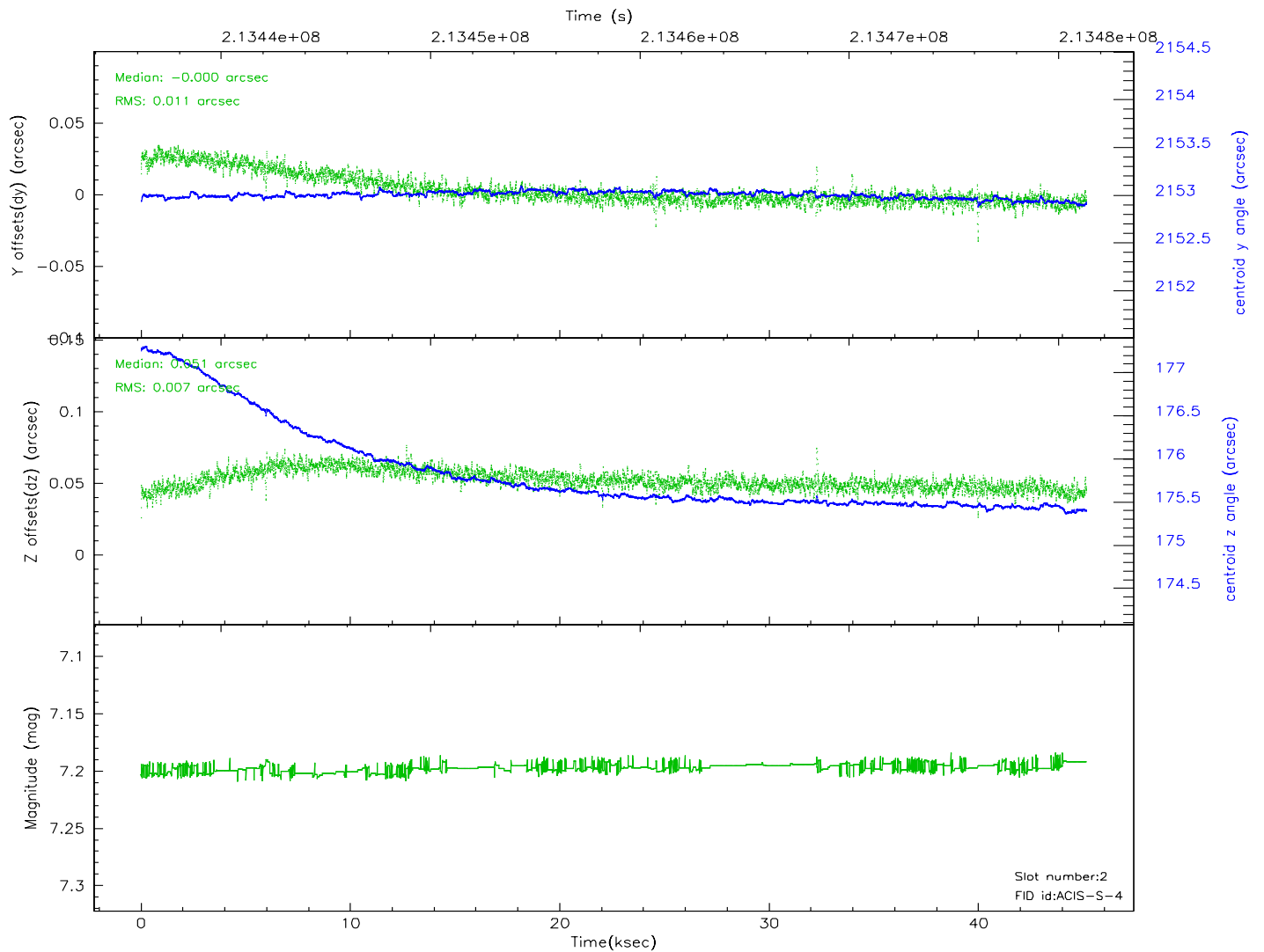
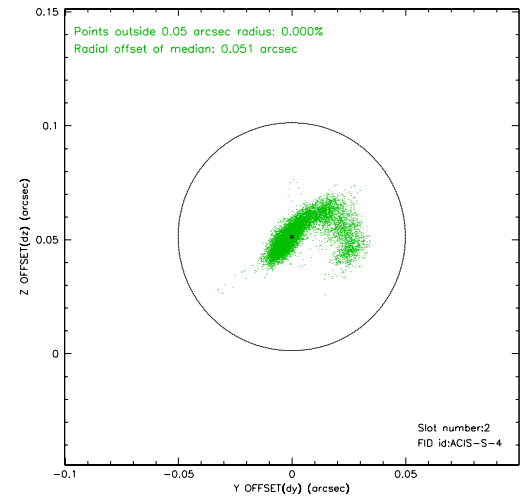
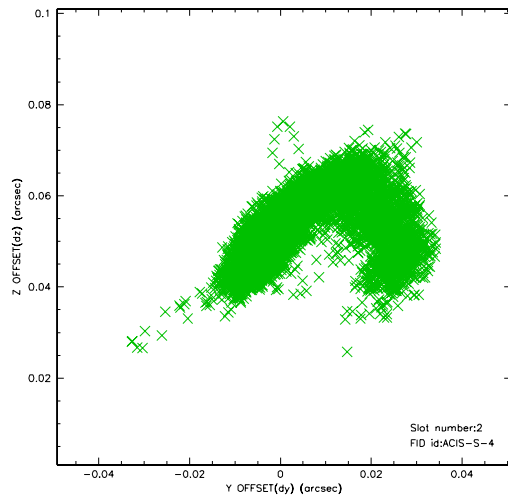
### 2.5.1 Slot 0



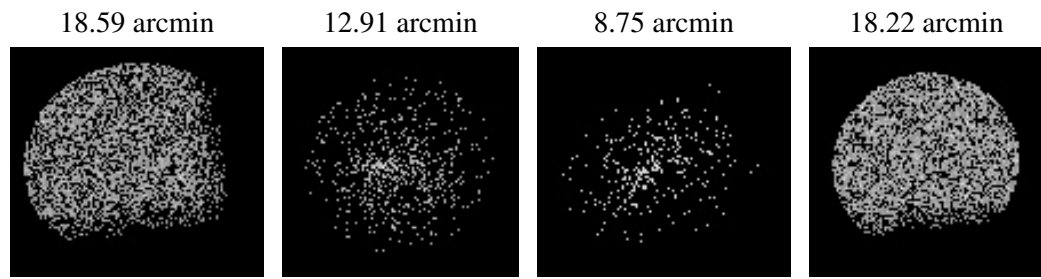
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

|                            |               |
|----------------------------|---------------|
| V&V Scientist              | Beth Sundheim |
| V&V Date (YYYY-MM-DD)      | 2006.04.17    |
| V&V Edition                | 1             |
| V&V Disposition and Status | OK            |
| V&V Charge Time            | 45.155        |

### A.2 Comments

Focal plane temperature spikes ~10 ksec into observation, then settles.