

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3776 - L2 Version 001  
Chandra X-Ray Center

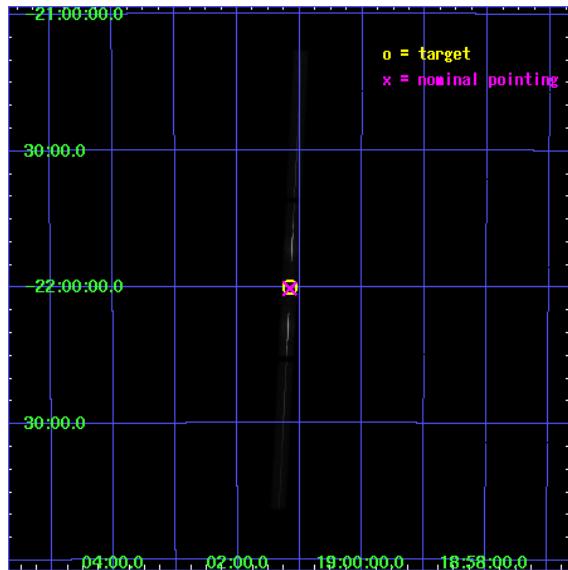
L2 Processing Date : Jul 14 2006

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# 1 Front

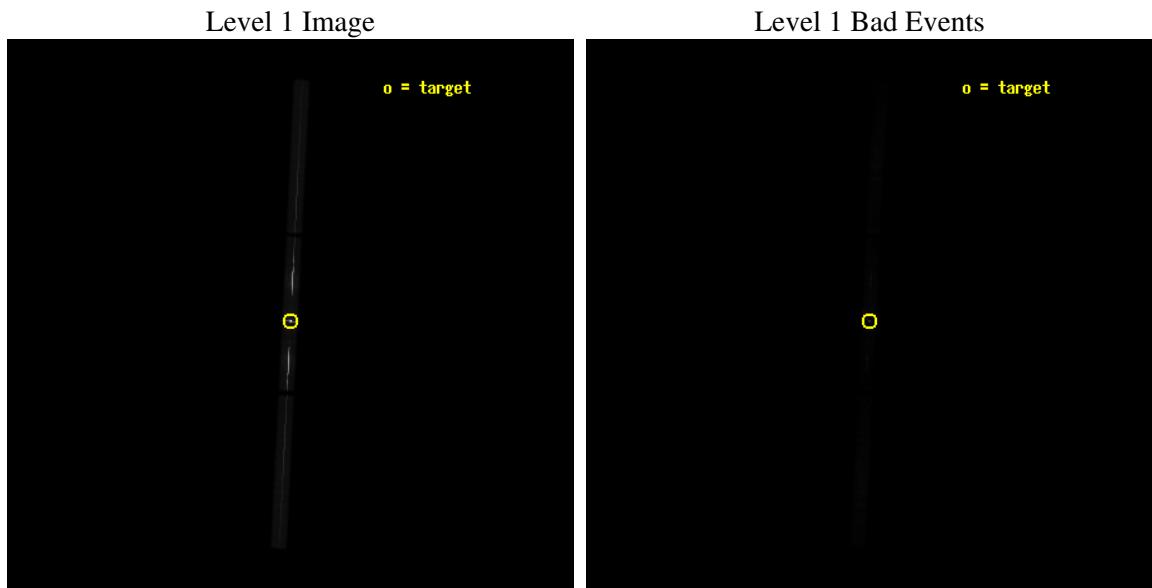
|          |   |
|----------|---|
| seq_num  | 300101  |
| obs_id   | 3776  |
| title    | MULTIWAVELENGTH TARGET OF OPPORTUNITY OBSERVATIONS OF A BRIGHT NOVA IN OUTBURST |
| observer | Professor Sumner Starrfield   |
| object   | V4743 Sgr   |
| ra_targ  | 285.289083  |
| dec_targ | -22.001639  |
| ra_nom   | 285.28924328801   |
| dec_nom  | -22.006356789515  |
| roll_nom | 272.81148470326   |
| revision | 2   |
| ontime   | 11829.781754255   |
| livetime | 11680.966790761   |
| l2events | 1602730   |



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



## 2.1.2 Parameters

|          |                     |
|----------|---------------------|
| obi_num  | 0                   |
| ascdsver | 7.6.8               |
| caldbver | 3.2.2               |
| date     | 2006-07-14T11:17:43 |
| revision | 2                   |

|                |                 |
|----------------|-----------------|
| sched_exp_time | 12000.000000    |
| ontime         | 11911.525507718 |
| l1events       | 1904239         |

## 2.1.3 Events

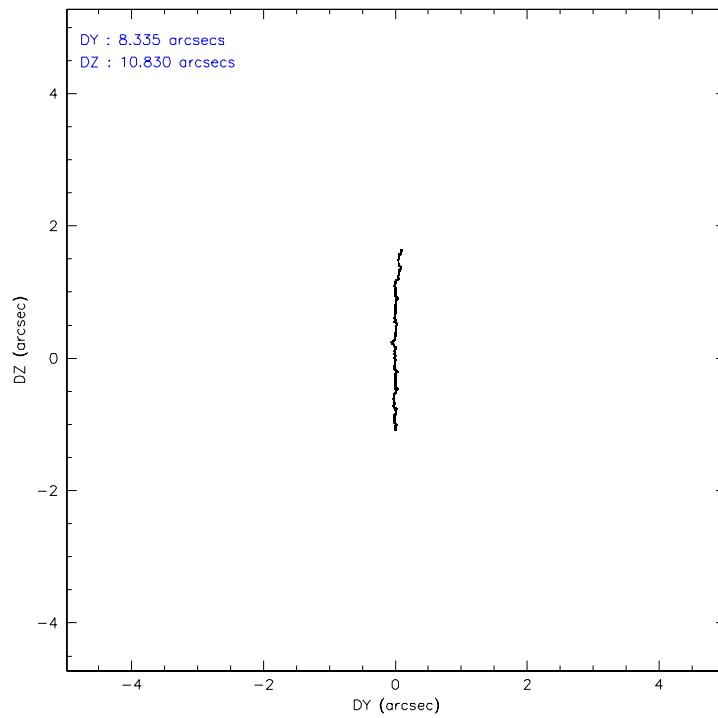
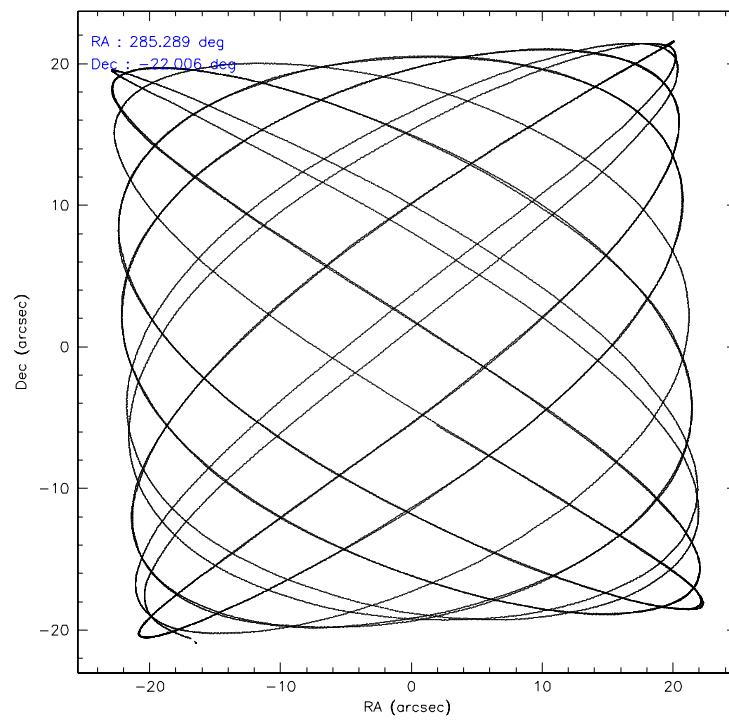
Level 1 Events

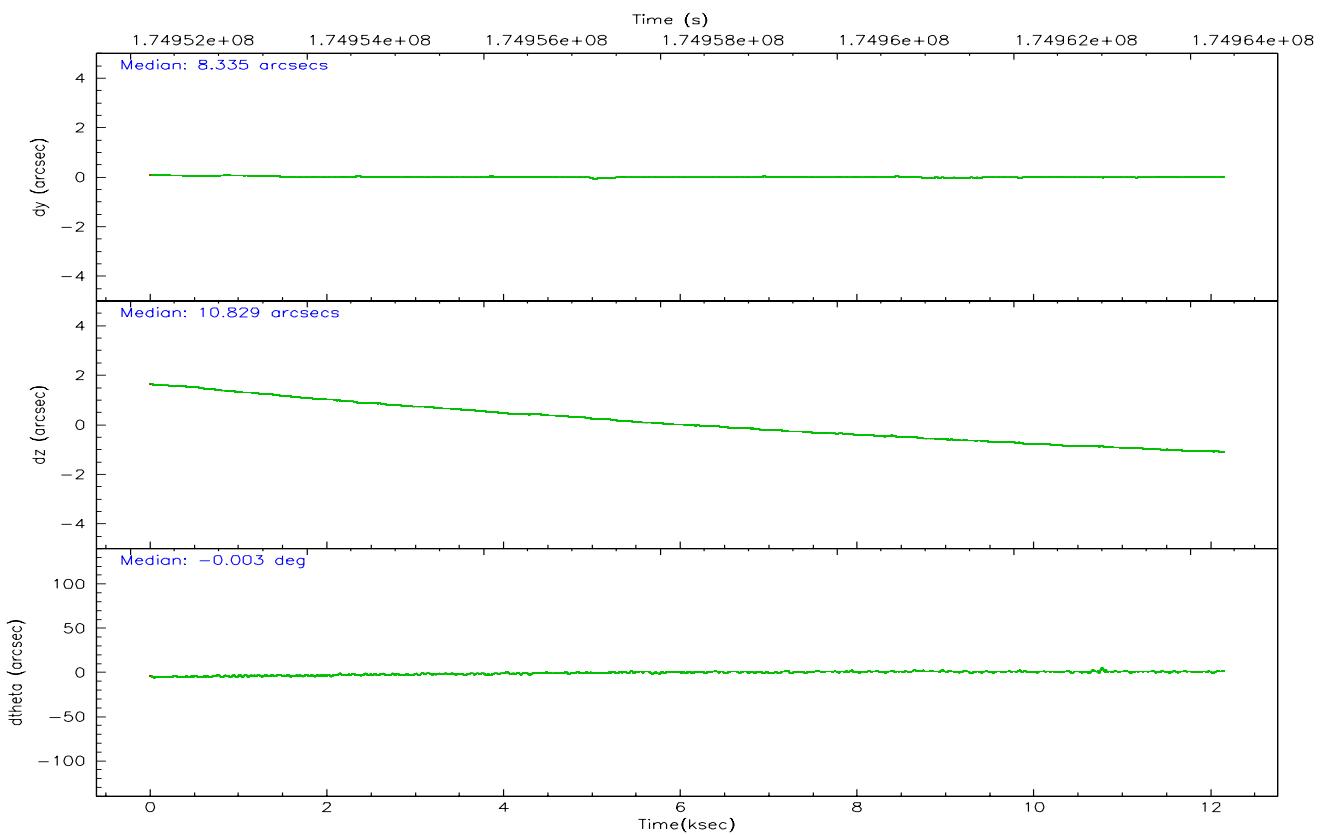
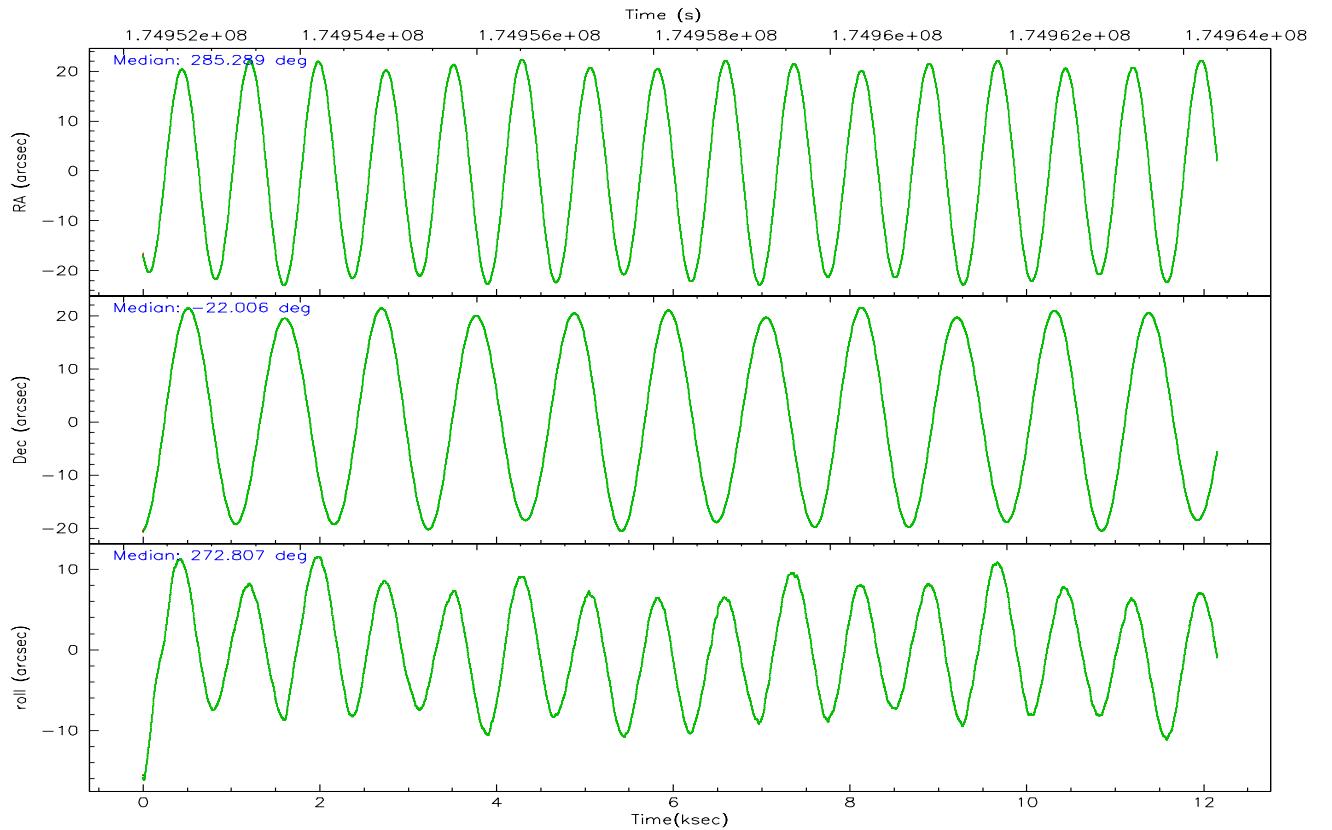
|                 | segment<br>1 | segment<br>2 | segment<br>3 |
|-----------------|--------------|--------------|--------------|
| level 1 events  | 298457       | 1303231      | 302551       |
| rejected events | 67191        | 82302        | 78393        |
| rejected %      | 22%          | 6%           | 25%          |

## 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                           | LETG                | LETG                 | Obspar update status         | NONE      | UPDATED |
| Data mode                         | OBSERVING           | OBSERVING            |                              |           |         |
| Observation mode                  | POINTING            | POINTING             |                              |           |         |
| Pointing RA                       | 285.271211          | 285.2892432880095    |                              |           |         |
| Pointing Dec                      | -21.983078          | -22.00635678951513   |                              |           |         |
| Pointing Roll                     | 272.737399          | 272.8114847032646    |                              |           |         |
| 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            | 174952379.184000    | 174951329.98022      |                              |           |         |
| Observation start date            | 2003-07-18T21:51:55 | 2003-07-18T21:35:29  |                              |           |         |
| Observation end time              | 174964379.184000    | 174965076.25581      |                              |           |         |
| Observation end date              | 2003-07-19T01:11:55 | 2003-07-19T01:24:36  |                              |           |         |

## 2.3 Aspect





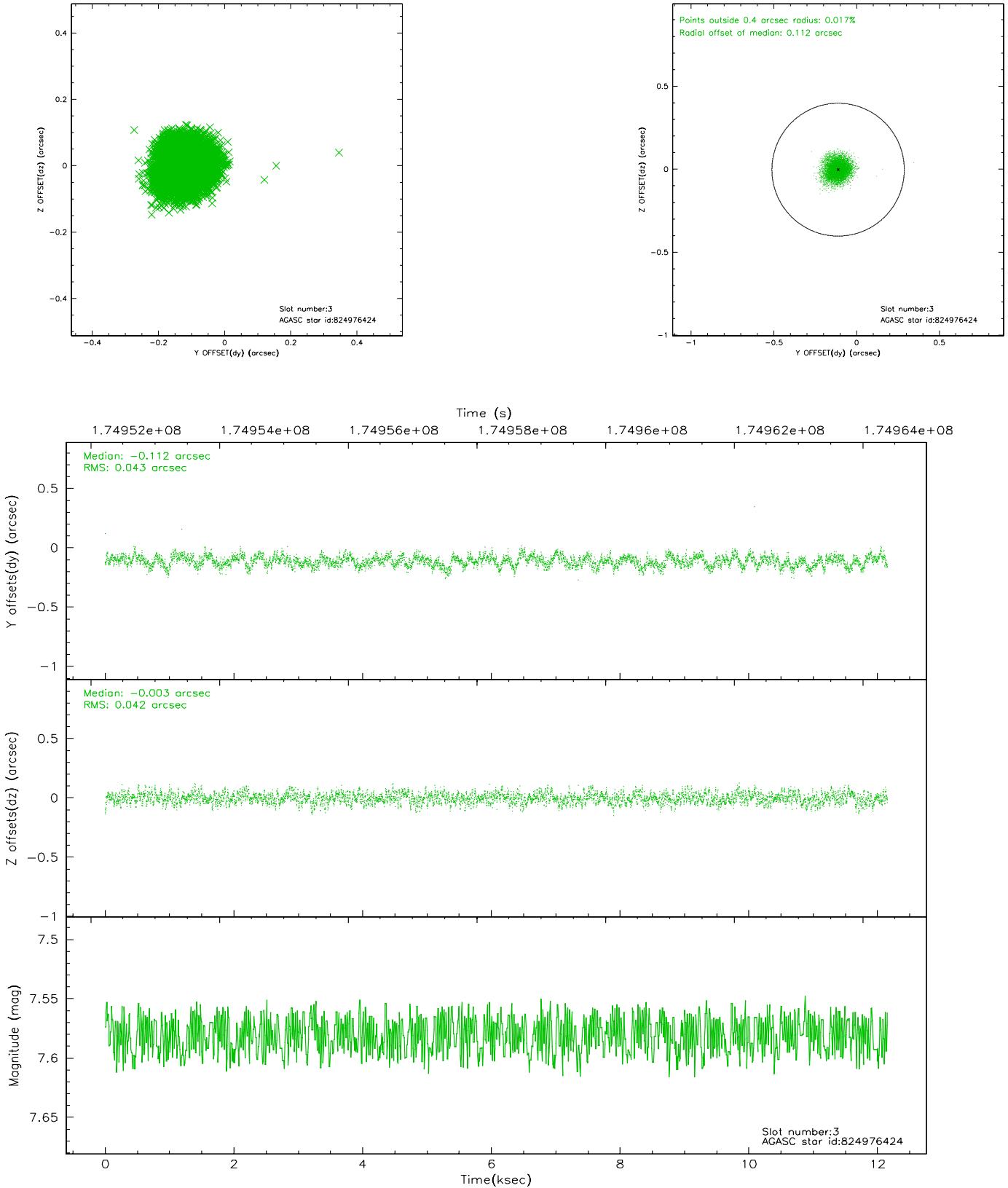
### Slot Statistics

| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra         | dec        | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0    | FID    | HRC-S-1   | 7.05 | 2965  | 0.155  | -0.180 | 0.030 | 0.061 | 0.000000   | 0.000000   | -1162.50 | -459.64  |
| 1    | FID    | HRC-S-2   | 7.04 | 2965  | 0.128  | -0.111 | 0.007 | 0.014 | 0.000000   | 0.000000   | 1236.76  | -452.39  |
| 2    | FID    | HRC-S-3   | 7.05 | 2964  | 0.106  | -0.010 | 0.032 | 0.070 | 0.000000   | 0.000000   | -1164.84 | 569.89   |
| 3    | GUIDE  | 824976424 | 7.58 | 5930  | -0.112 | -0.003 | 0.064 | 0.103 | 284.900091 | -21.828249 | -614.29  | -1212.32 |
| 4    | GUIDE  | 824977840 | 9.17 | 5930  | -0.056 | -0.017 | 0.079 | 0.130 | 285.448876 | -22.329632 | 1274.79  | 531.26   |
| 5    | GUIDE  | 824979304 | 8.97 | 5929  | -0.026 | 0.020  | 0.079 | 0.129 | 285.497931 | -22.093264 | 433.25   | 736.59   |
| 6    | GUIDE  | 824970200 | 9.56 | 5929  | -0.084 | 0.088  | 0.114 | 0.184 | 284.845750 | -21.379569 | -2235.57 | -1321.32 |
| 7    | GUIDE  | 899154168 | 9.41 | 5928  | 0.277  | -0.092 | 0.147 | 0.250 | 284.628850 | -22.662641 | 2346.63  | -2248.83 |

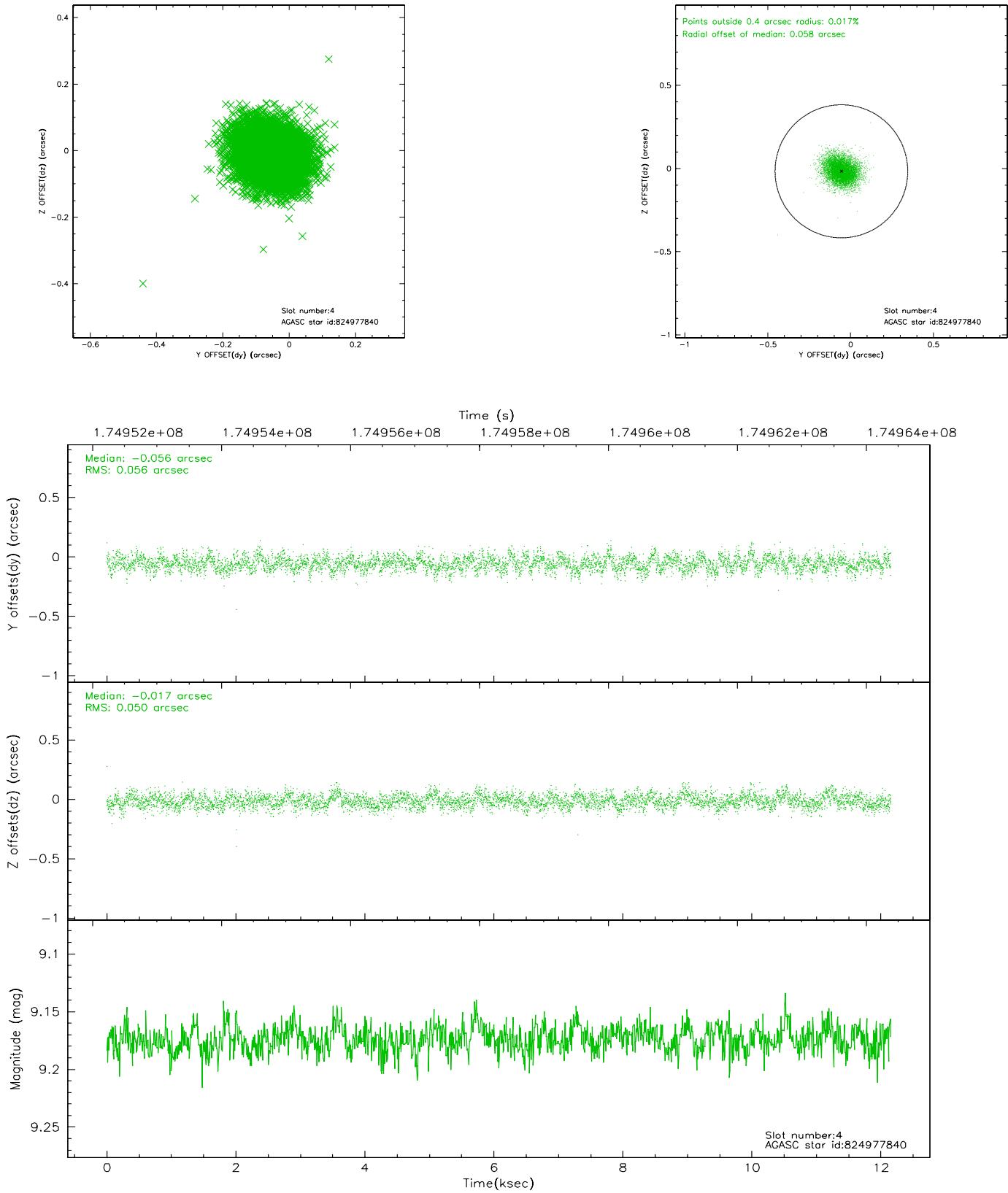
∞

## 2.4 Star Slots

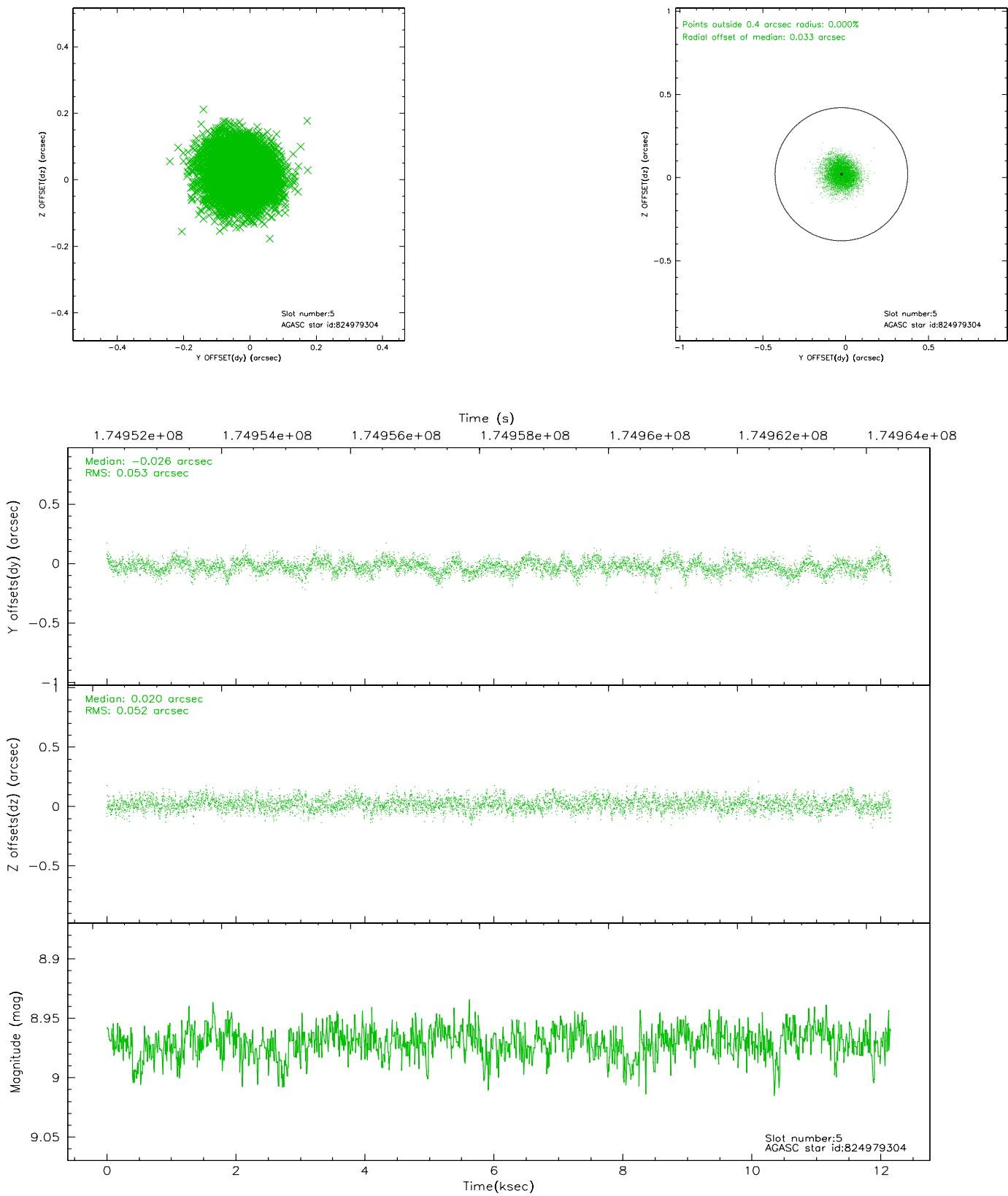
### 2.4.1 Slot 3



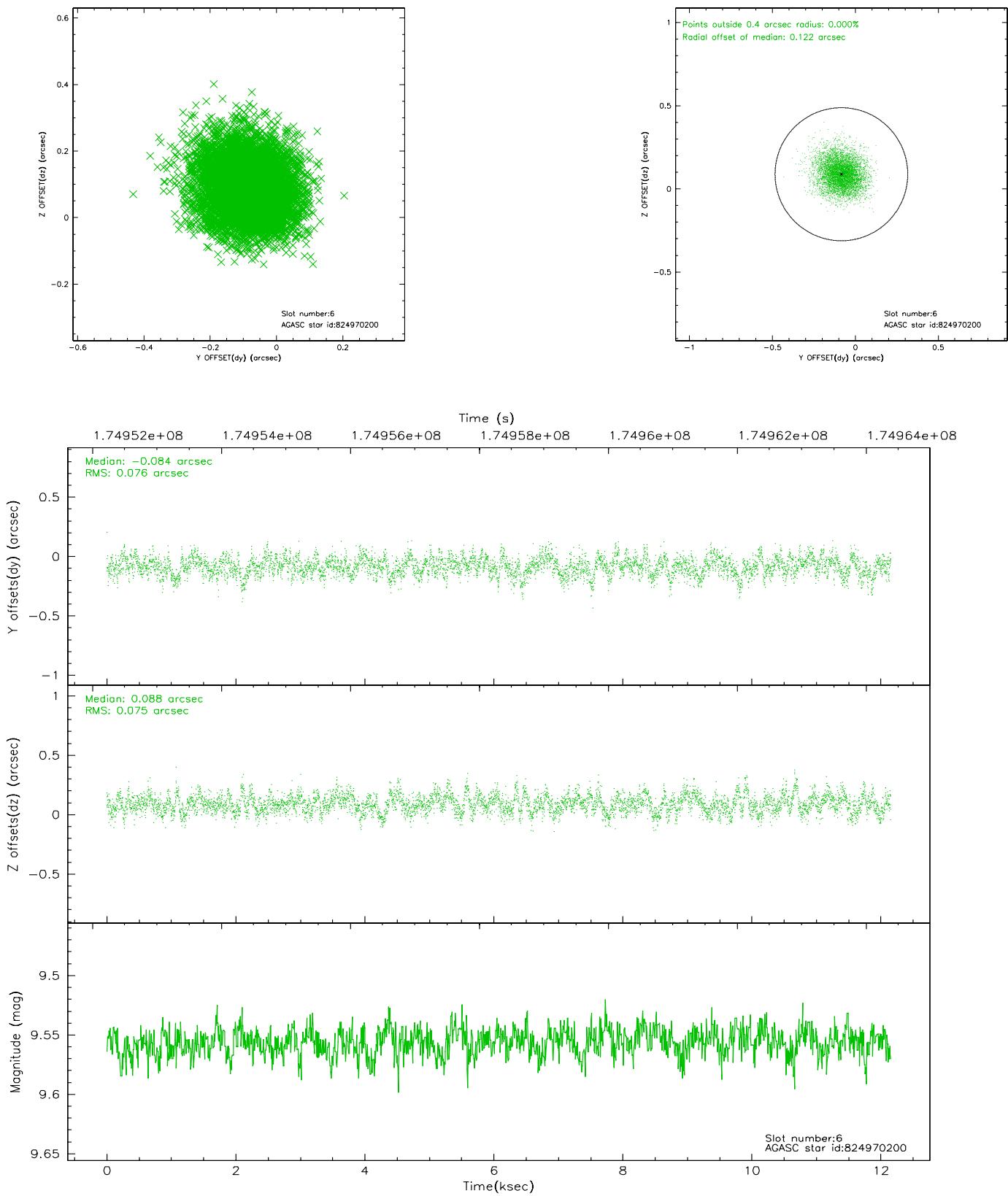
## 2.4.2 Slot 4



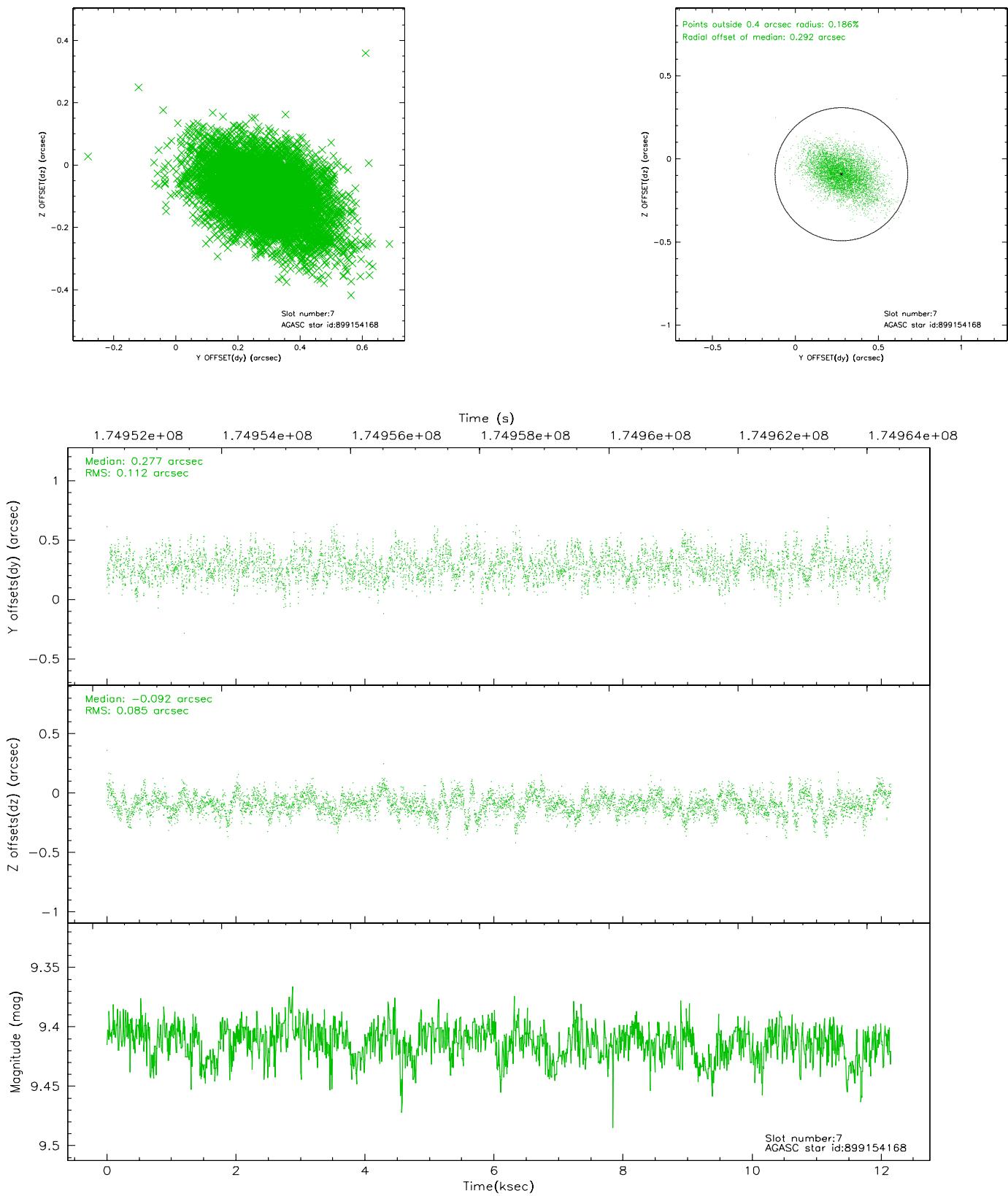
### 2.4.3 Slot 5



## 2.4.4 Slot 6

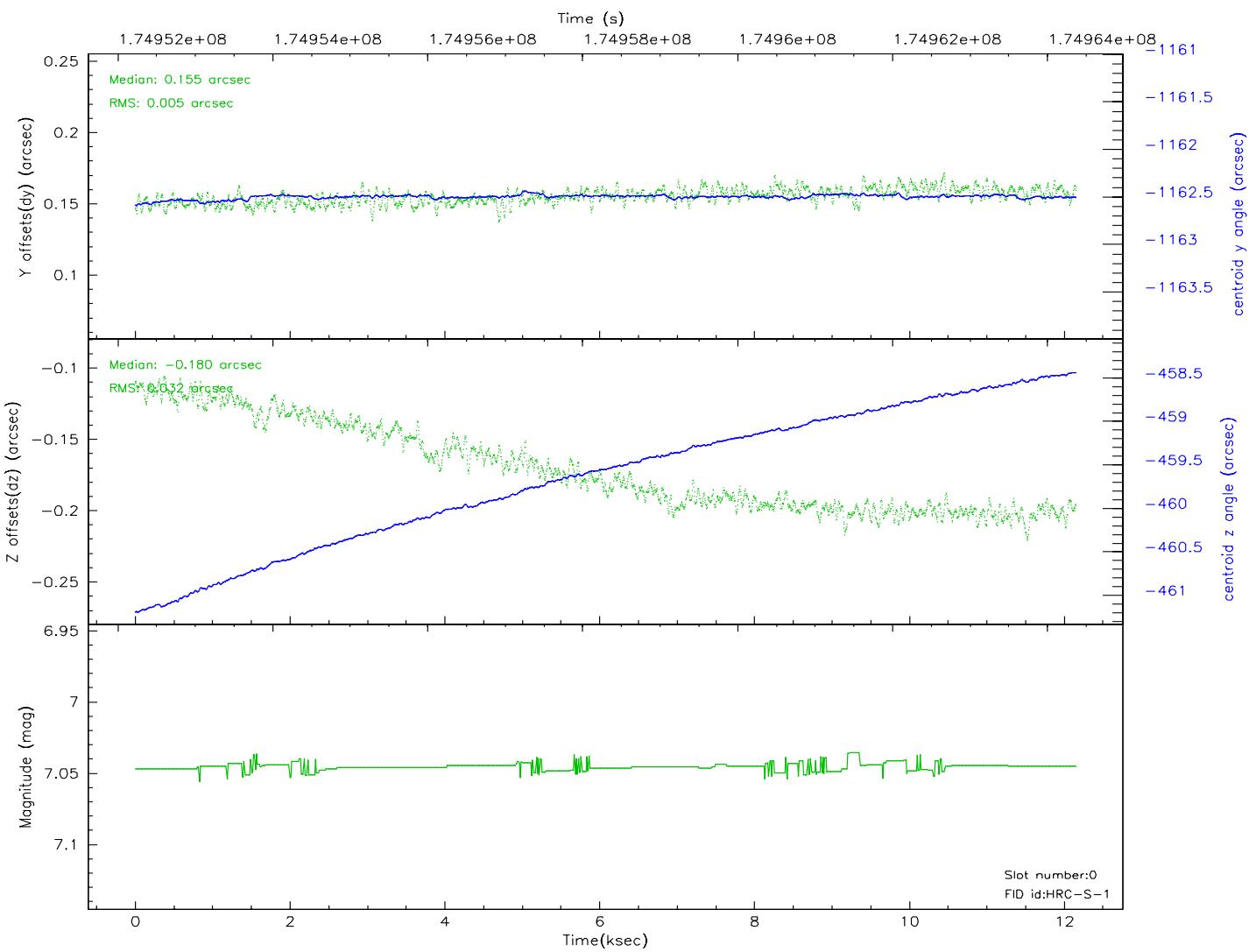
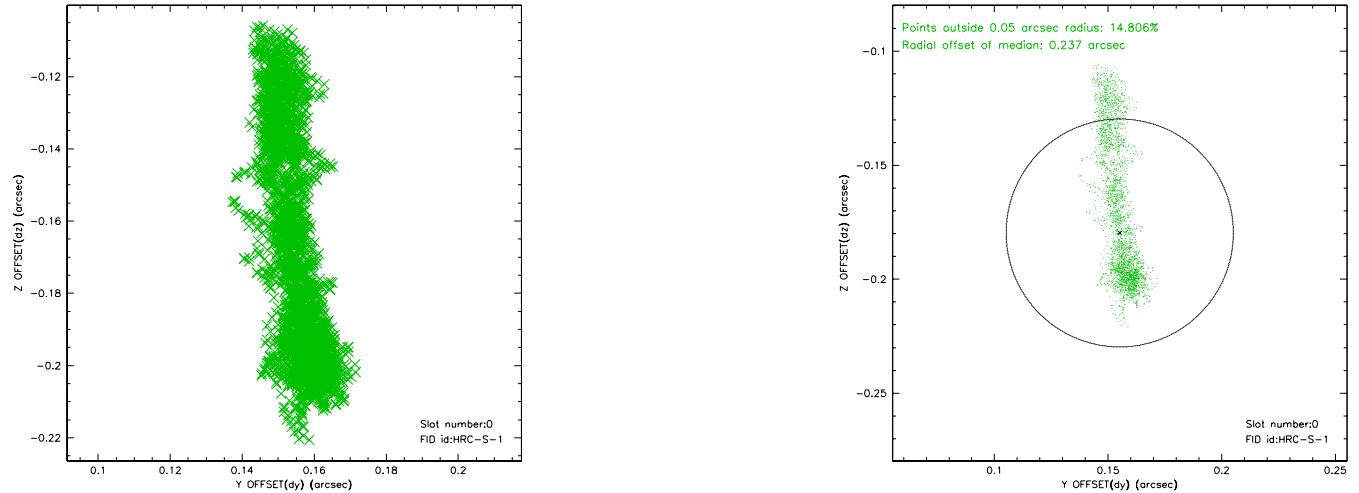


## 2.4.5 Slot 7

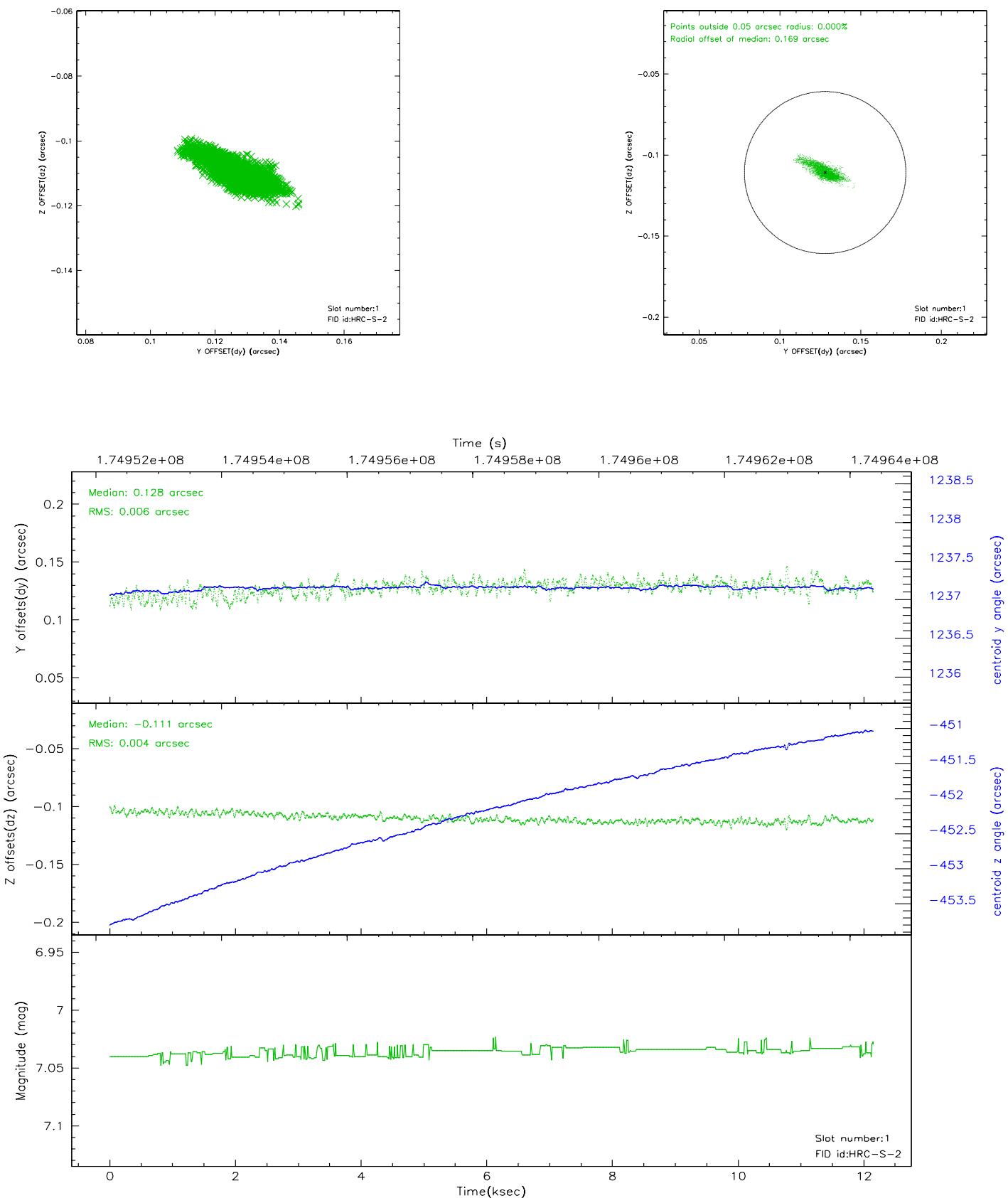


## 2.5 FID Slots

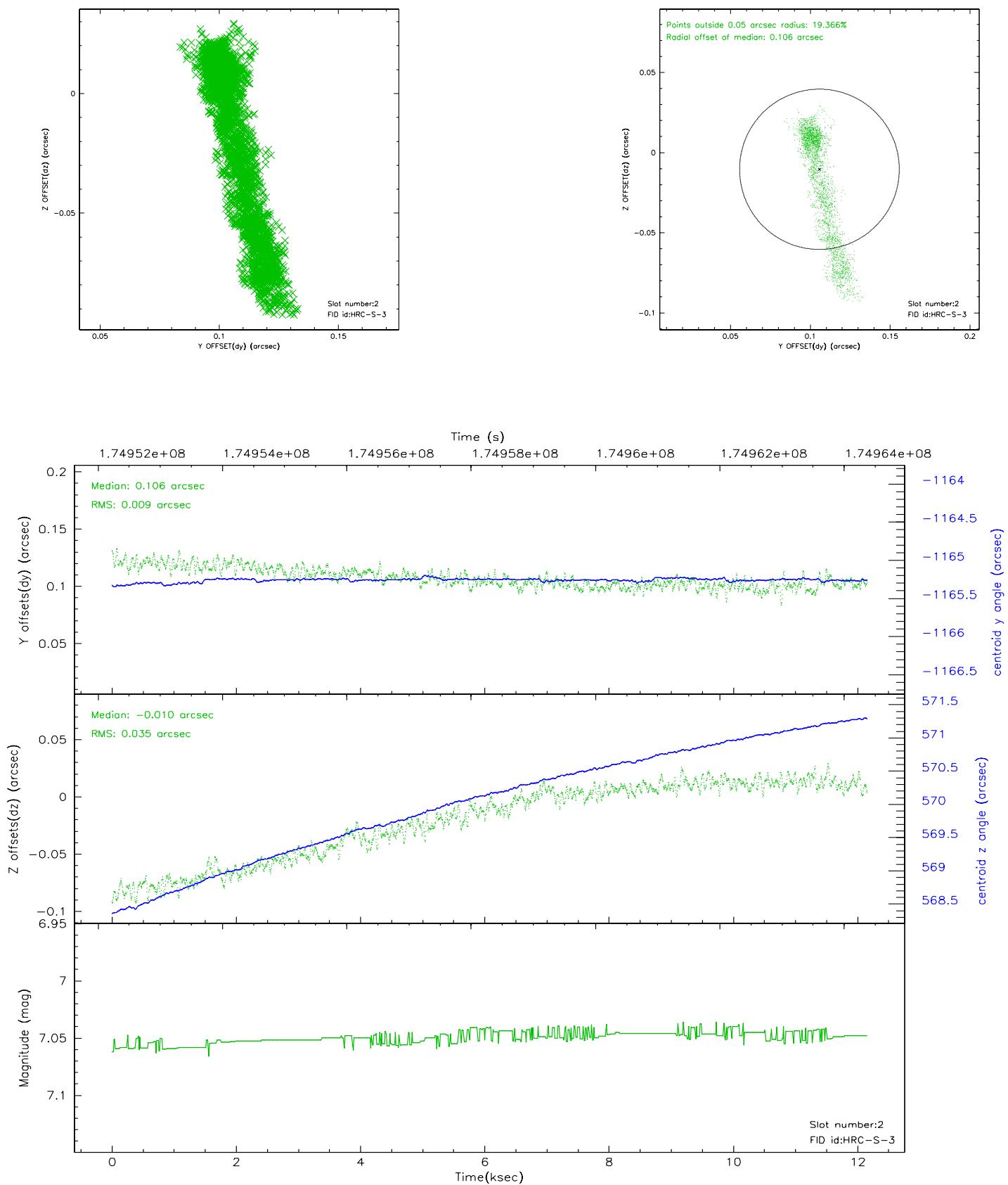
### 2.5.1 Slot 0



## 2.5.2 Slot 1

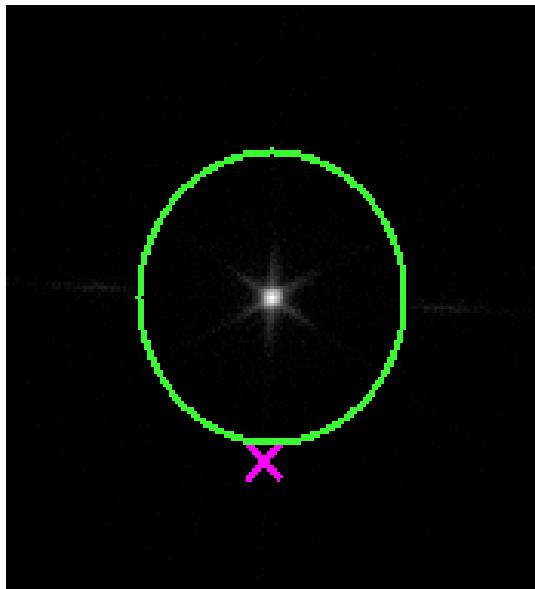


### 2.5.3 Slot 2



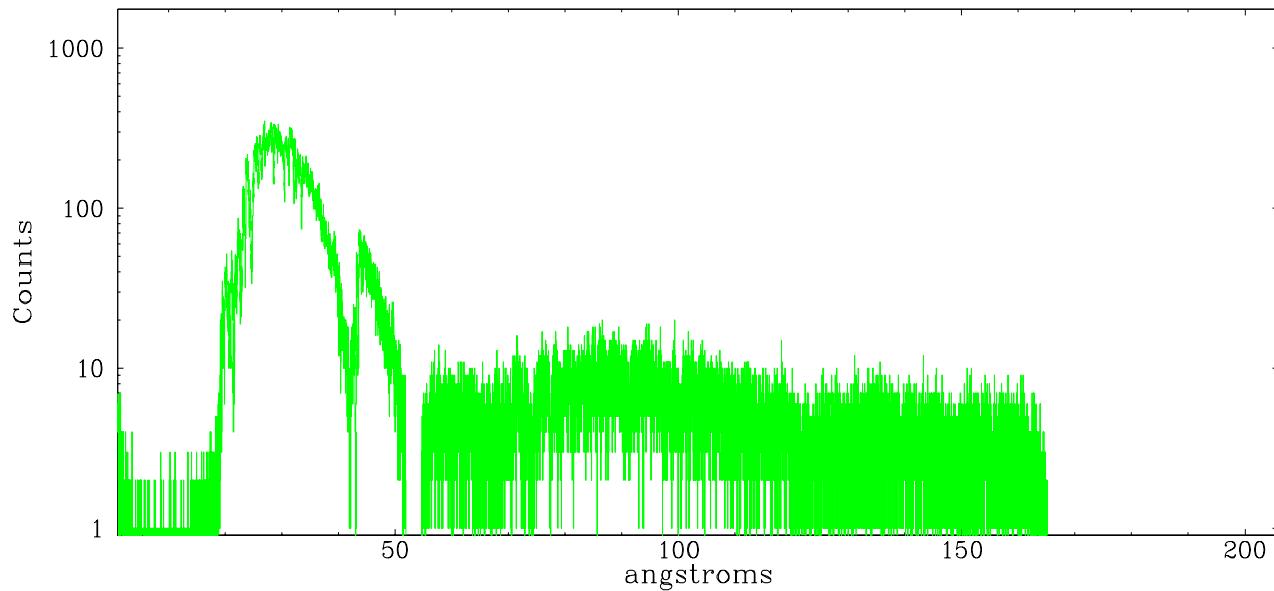
### 3 Gratings

#### 3.1 LETG Arm

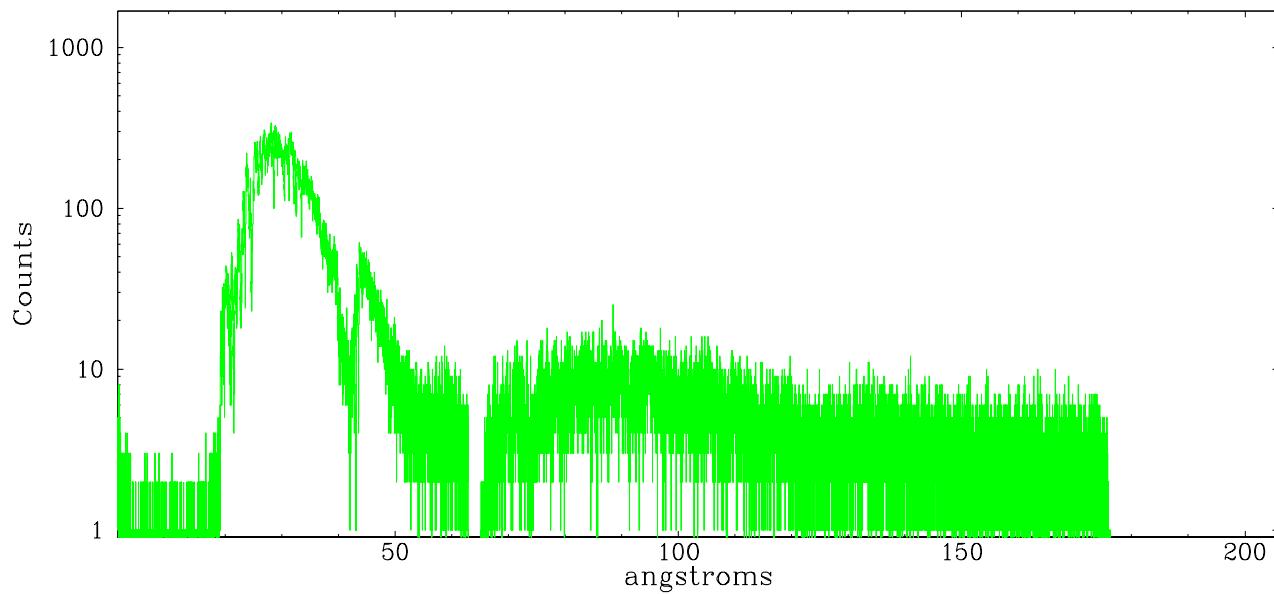


LETG Zero Order

leg order -1



leg order +1



# A Summary

## A.1 Status

|                            |               |
|----------------------------|---------------|
| V&V Scientist              | Beth Sundheim |
| V&V Date (YYYY-MM-DD)      | 2006.07.14    |
| V&V Edition                | 1             |
| V&V Disposition and Status | OK            |
| V&V Charge Time            | 11.829        |

## A.2 Comments