

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 273 - L2 Version 6  
Chandra X-Ray Center

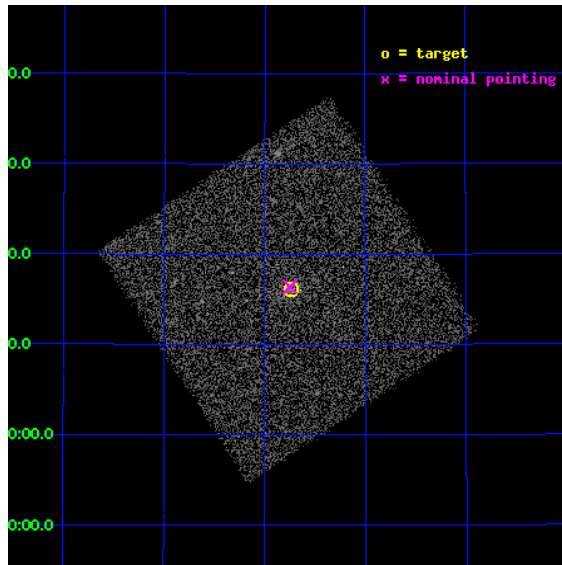
L2 Processing Date : Aug 29 2012

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# 1 Front

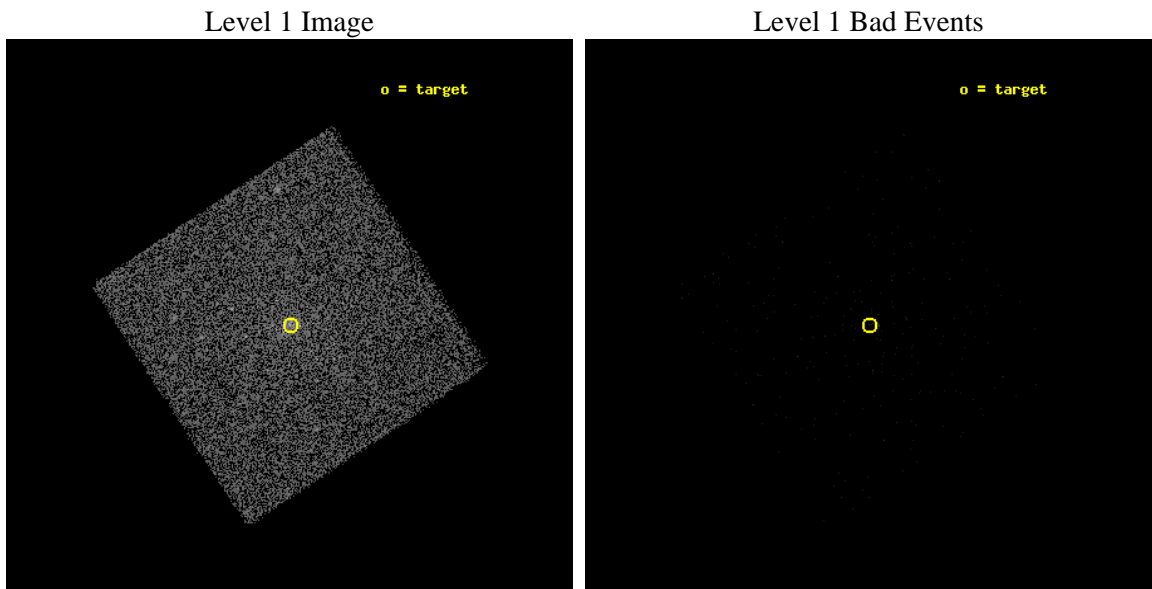
|          |                    |                                       |
|----------|--------------------|---------------------------------------|
| seq_num  | 600033             | Sequence number                       |
| obs_id   | 273                | Observation id                        |
| title    | MONITORING M31     | Proposal title                        |
| observer | Dr. Stephen Murray | Principal investigator                |
| object   | M31 - CENTER       | Source name                           |
| ra_targ  | 10.685             | Observer's specified target RA [deg]  |
| dec_targ | 41.268972          | Observer's specified target Dec [deg] |
| ra_nom   | 10.687344444799    | Nominal RA [deg]                      |
| dec_nom  | 41.273204420796    | Nominal Dec [deg]                     |
| roll_nom | 101.66686157351    | Nominal Roll [deg]                    |
| revision | 6                  | Processing version of data            |
| ontime   | 1196.4312941134    | [s]                                   |
| livetime | 1190.720382375     | Ontime multiplied by DTCOR            |
| l2events | 29736              | 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 | 1000.000000     | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5               | Processing system revision     | ontime         | 1196.4312941134 | [s]                                     |
| caldbver | 4.5.1.1             | &#160                          | l1events       | 55041           | Number of level 1 events                |
| date     | 2012-08-29T07:30:35 | Date and time of file creation |                |                 |   |
| revision | 6                   | Processing version of data     |                |                 |   |

### 2.1.3 Events

#### Level 1 Events

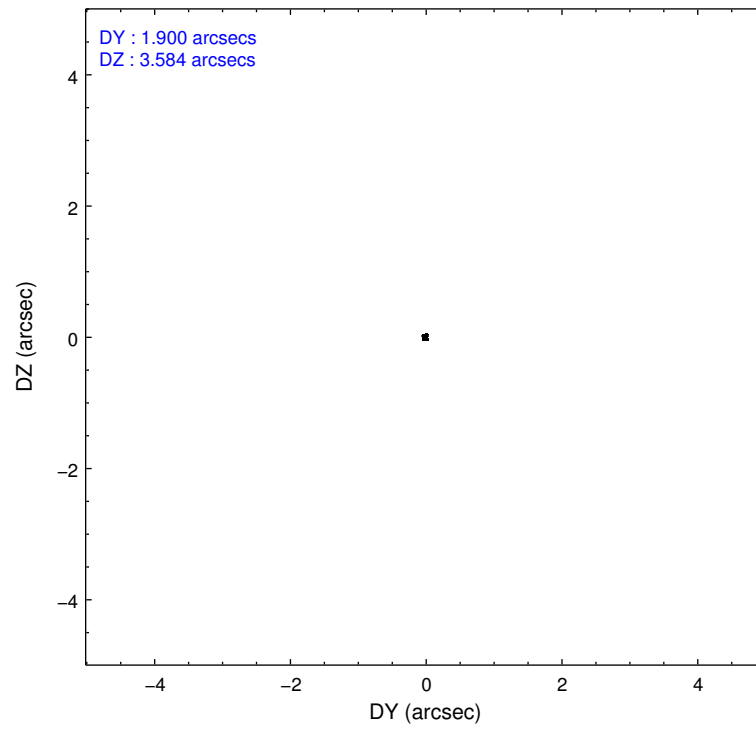
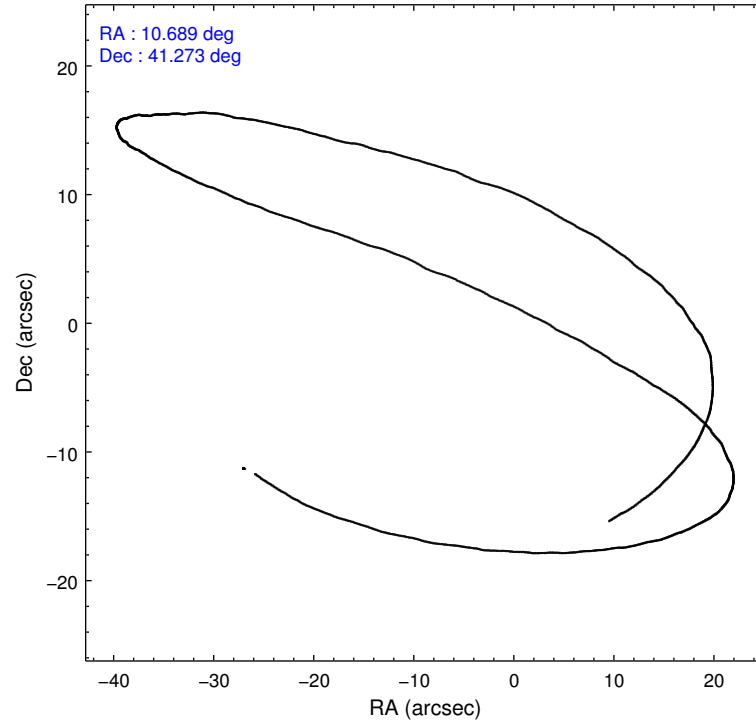
|                 |                      |
|-----------------|----------------------|
|                 | <b>segment<br/>0</b> |
| level 1 events  | 55041                |
| rejected events | 11369                |
| rejected %      | 20%                  |

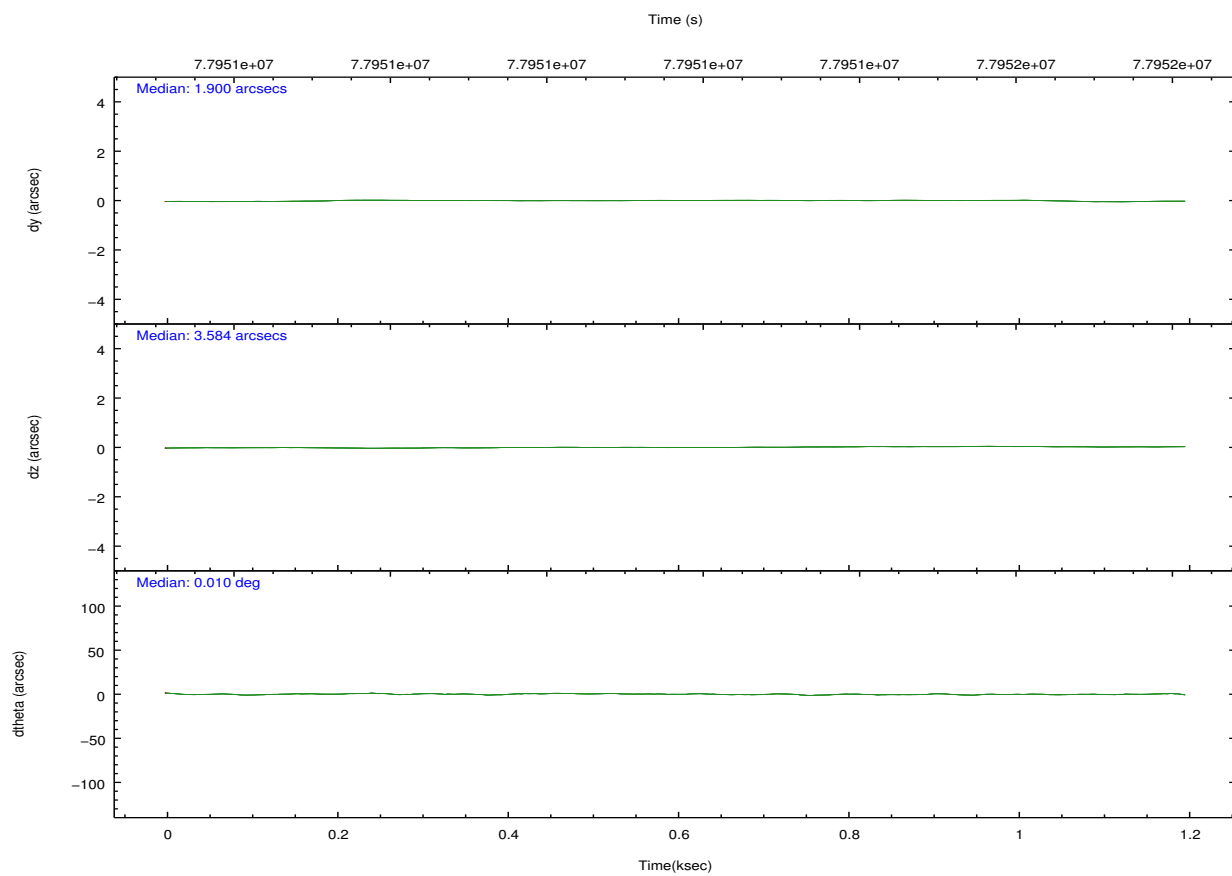
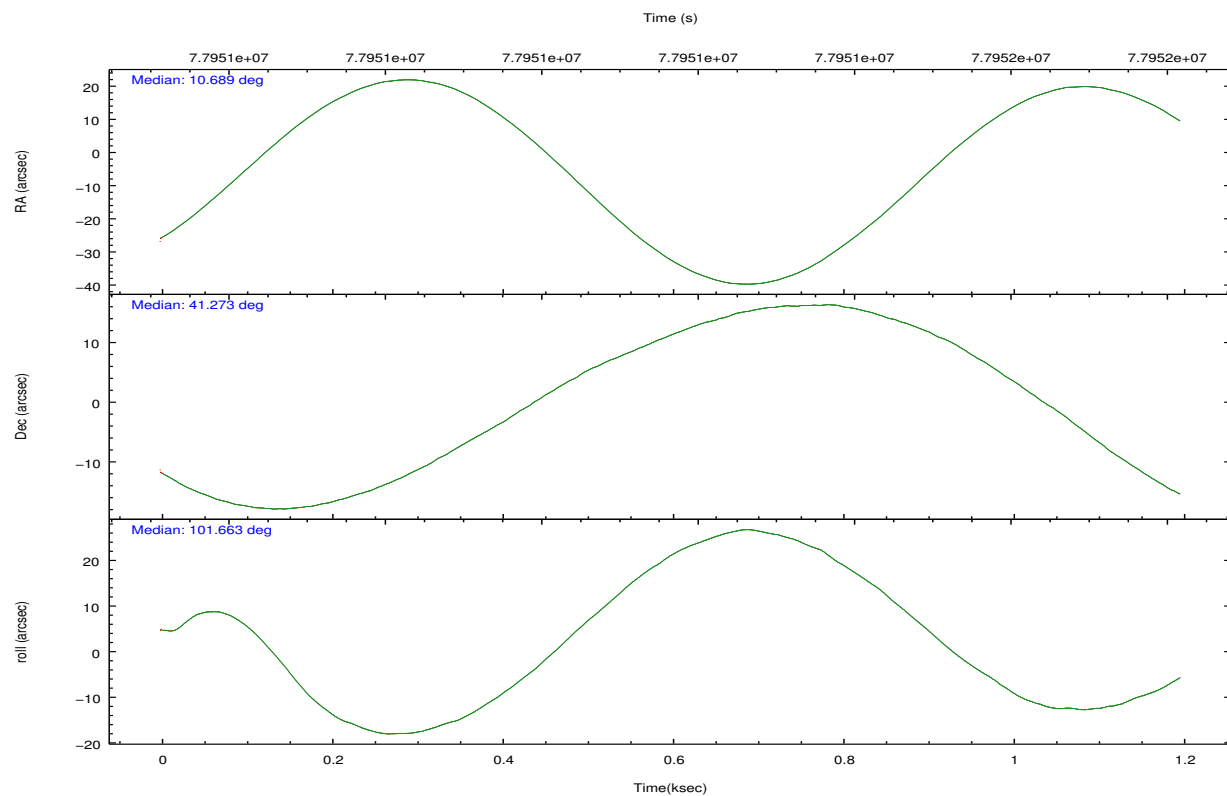
## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual                 |
|-----------------------------------|---------------------|------------------------|
| Instrument                        | HRC                 | HRC                    |
| Detector                          | HRC-I               | HRC-I                  |
| Grating                           | NONE                | NONE                   |
| Data mode                         | OBSERVING           | OBSERVING              |
| Observation mode                  | POINTING            | POINTING               |
| [deg] Pointing RA                 | 10.710649           | 10.68734444479893      |
| [deg] Pointing Dec                | 41.253238           | 41.27320442079625      |
| [deg] Pointing Roll               | 101.747115          | 101.666861573511       |
| [mm] SIM focus pos                | -1.040293           | -1.038866356238299     |
| [mm] SIM defocus                  | 0                   | 0.001426264420575141   |
| [mm] SIM translation stage pos    | 126.985494          | 126.9854943052878      |
| [mm] SIM translation stage offset | 0                   | -5.413686238853188e-06 |
| [s] Observation start time (MET)  | 77950762.184000     | 77950386.521044        |
| Observation start date            | 2000-06-21T04:58:18 | 2000-06-21T04:53:06    |
| [s] Observation end time (MET)    | 77951762.184000     | 77951896.3461          |
| Observation end date              | 2000-06-21T05:14:58 | 2000-06-21T05:18:16    |

| Parameter                    | Planned   | Actual  |
|------------------------------|-----------|---------|
| Obspar format version number | 7         | 7       |
| Obspar file type             | PREDICTED | ACTUAL  |
| Obspar update status         | NONE      | UPDATED |

## 2.3 Aspect





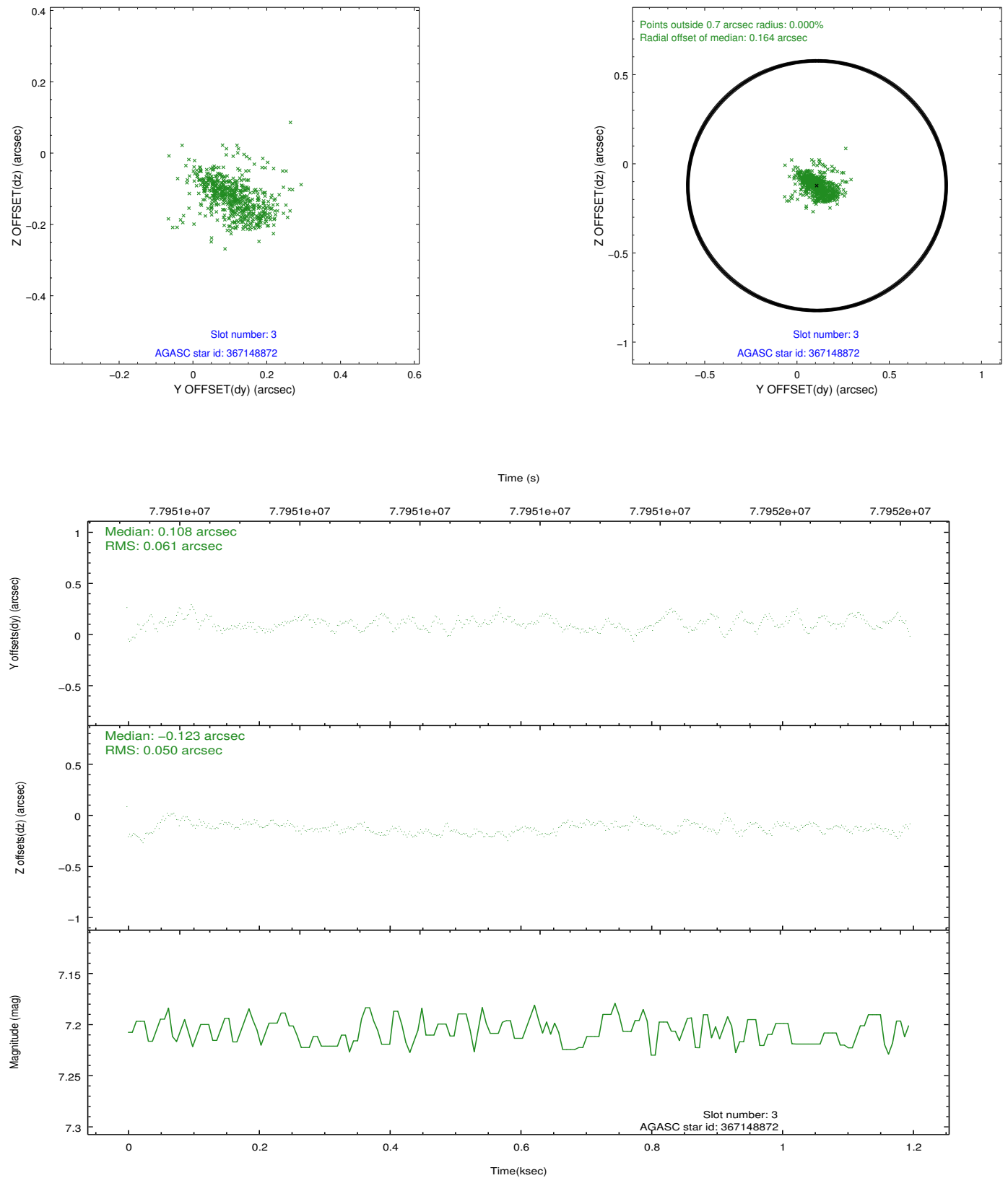
### Slot Statistics

| slot | status | id        | mag  | n_pts | med_dy | med_dz | dr1   | dr2   | ra        | dec       | mean_y   | mean_z   |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0    | FID    | HRC-I-1   | 6.94 | 293   | 0.059  | 0.049  | 0.006 | 0.010 | 0.000000  | 0.000000  | -757.32  | -1291.32 |
| 1    | FID    | HRC-I-3   | 7.02 | 293   | 0.034  | -0.074 | 0.007 | 0.012 | 0.000000  | 0.000000  | -1188.35 | 1008.73  |
| 2    | FID    | HRC-I-4   | 6.98 | 293   | 0.021  | -0.064 | 0.005 | 0.008 | 0.000000  | 0.000000  | 1281.44  | 1014.13  |
| 3    | GUIDE  | 367148872 | 7.21 | 585   | 0.108  | -0.123 | 0.085 | 0.136 | 10.505940 | 40.688258 | -1874.60 | 965.27   |
| 4    | GUIDE  | 367138920 | 7.72 | 585   | 0.079  | 0.131  | 0.080 | 0.129 | 11.513485 | 40.808909 | -2002.39 | -1812.17 |
| 5    | GUIDE  | 367674552 | 8.85 | 585   | -0.074 | 0.147  | 0.078 | 0.136 | 11.016238 | 41.570845 | 952.17   | -1037.39 |
| 6    | GUIDE  | 367658664 | 9.60 | 583   | -0.000 | -0.095 | 0.103 | 0.172 | 10.374070 | 41.369746 | 601.35   | 807.02   |
| 7    | GUIDE  | 367665472 | 9.50 | 584   | -0.099 | -0.044 | 0.100 | 0.423 | 10.241611 | 41.730843 | 1946.43  | 888.85   |

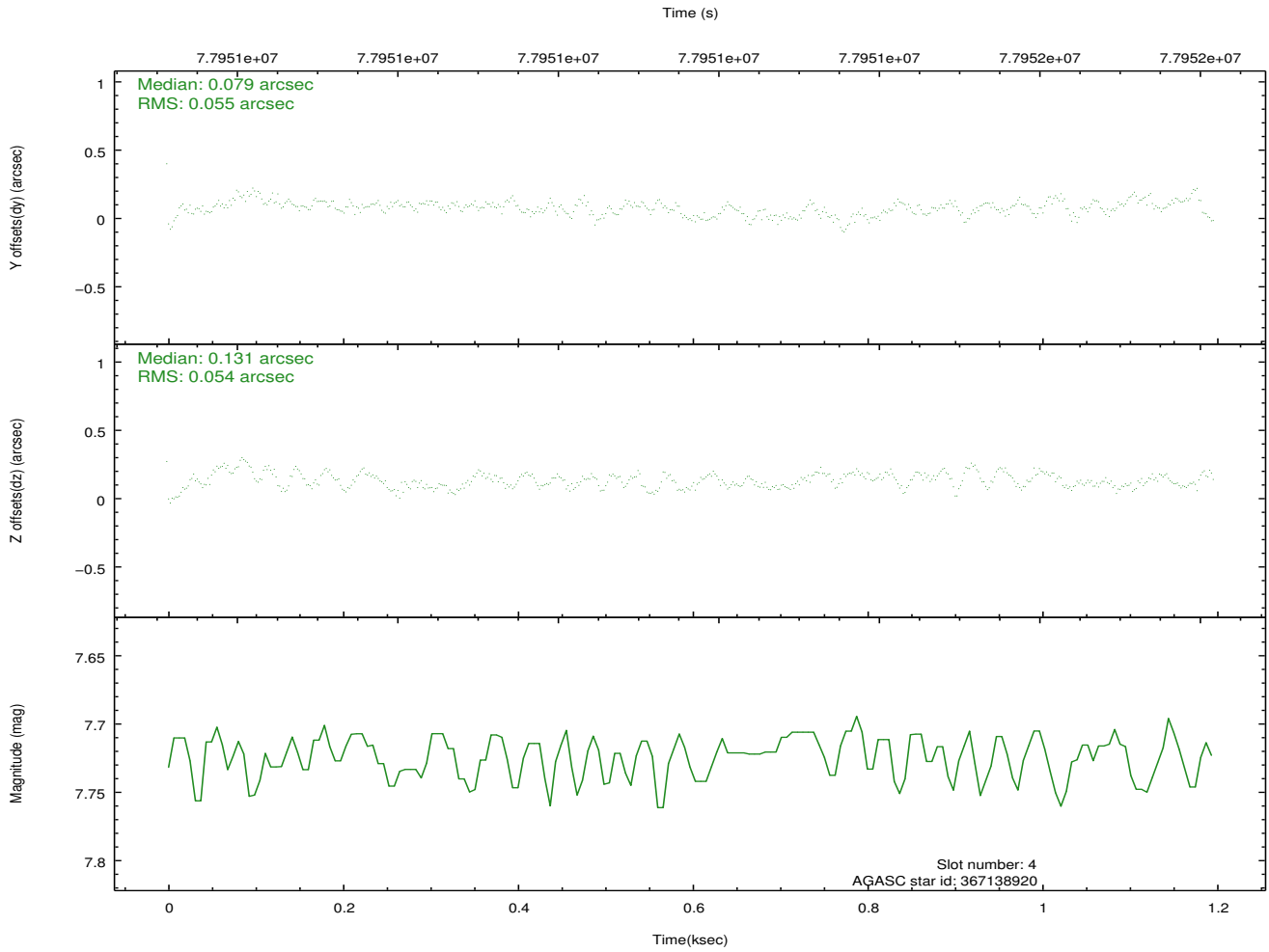
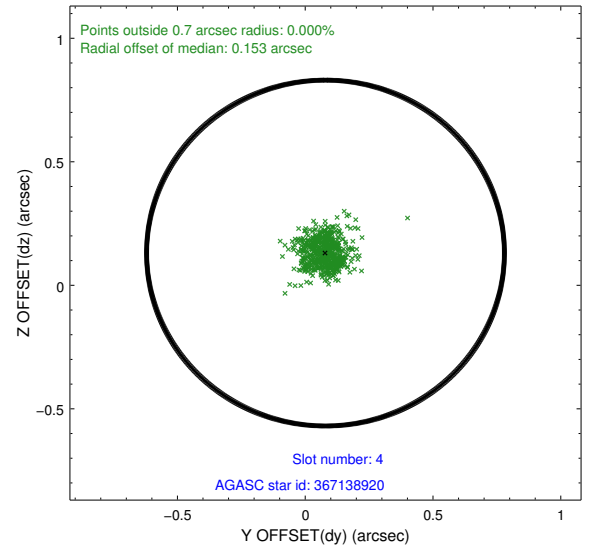
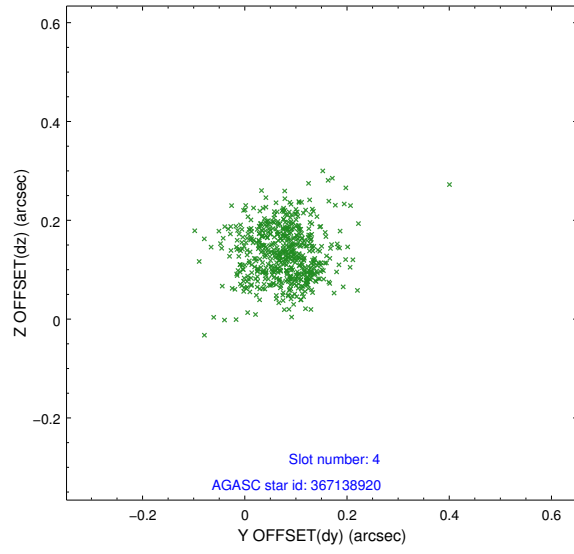


## 2.4 Star Slots

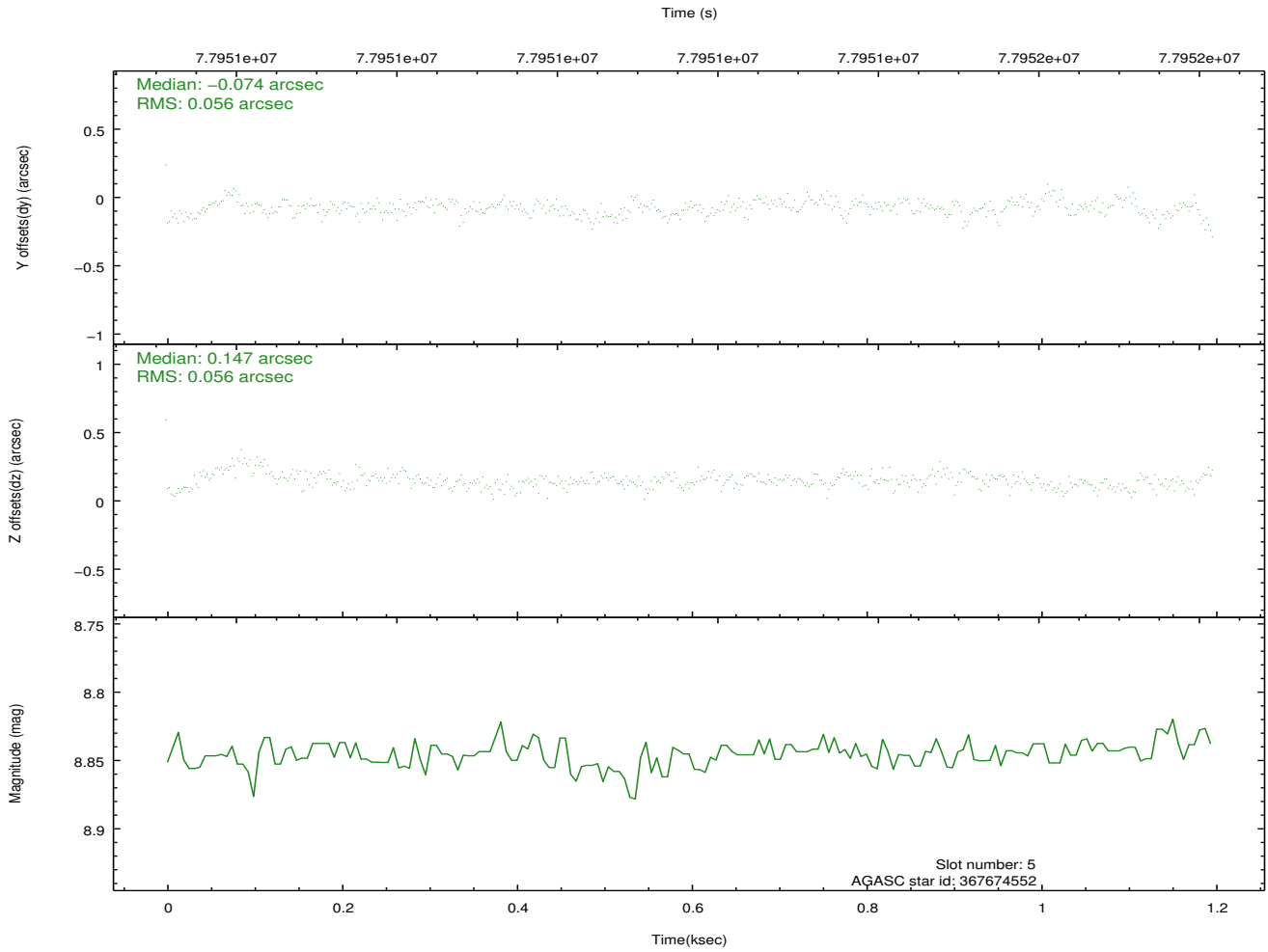
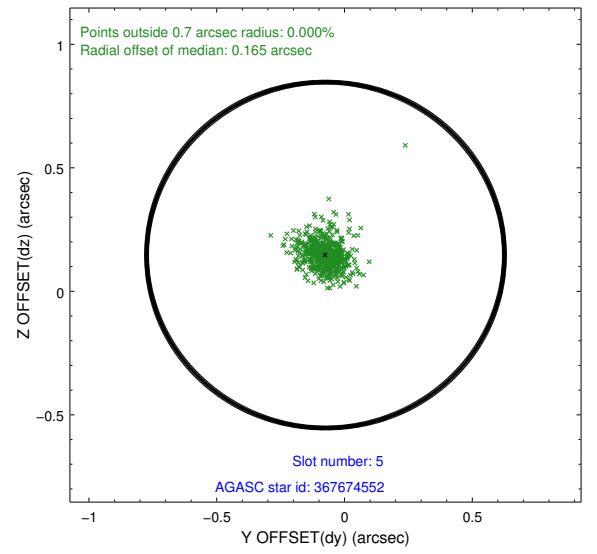
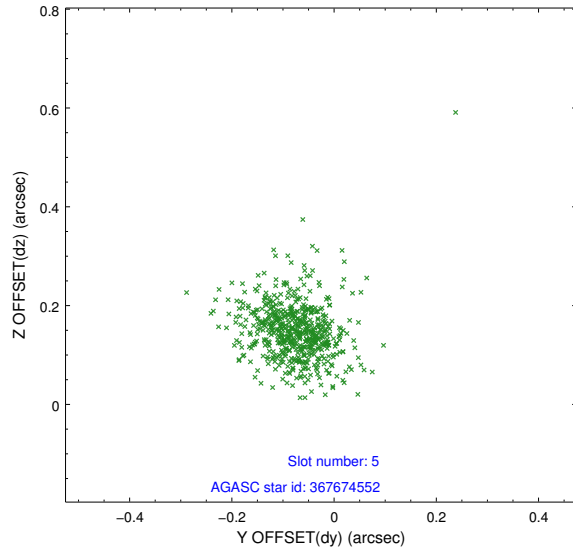
### 2.4.1 Slot 3



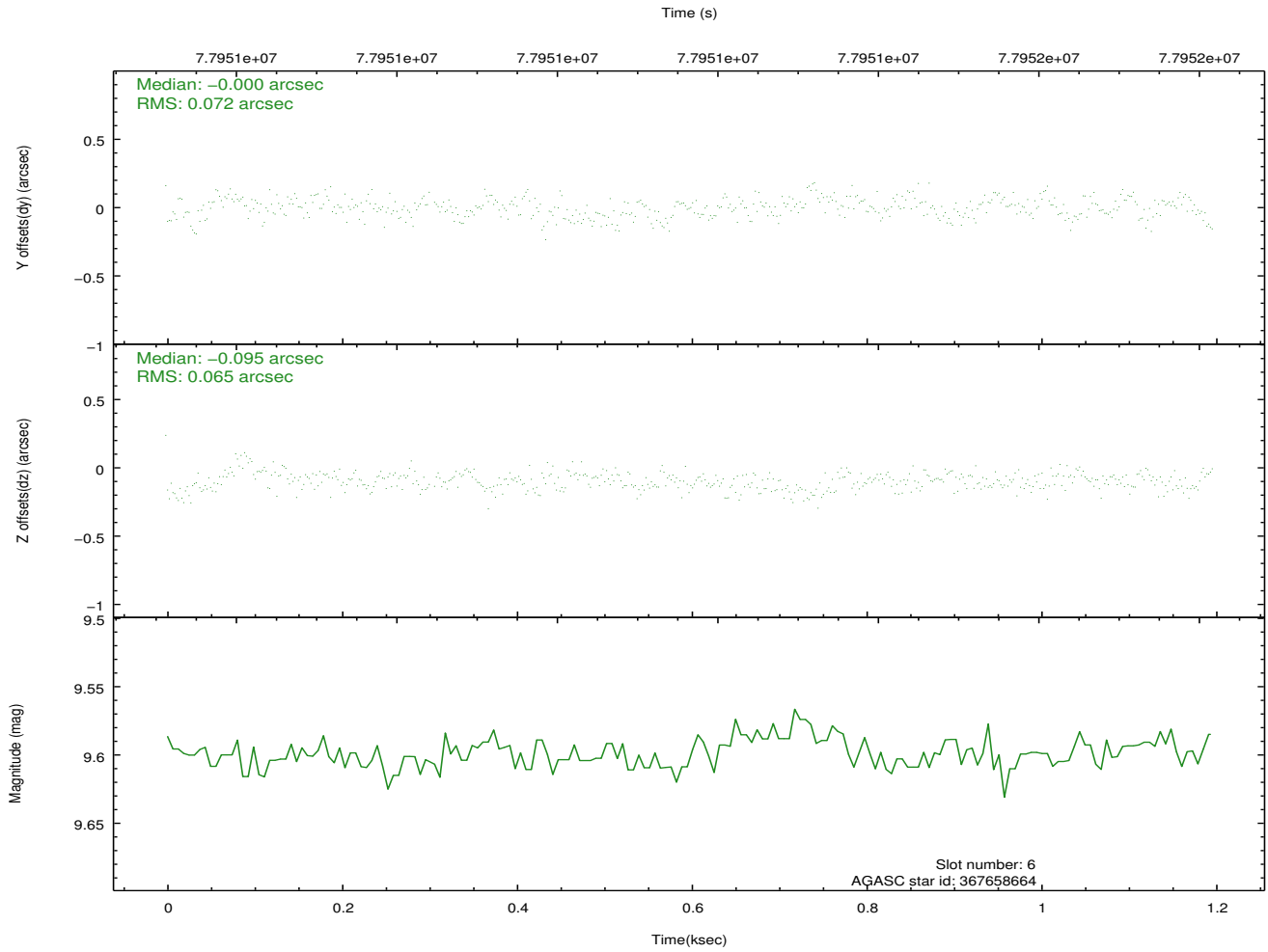
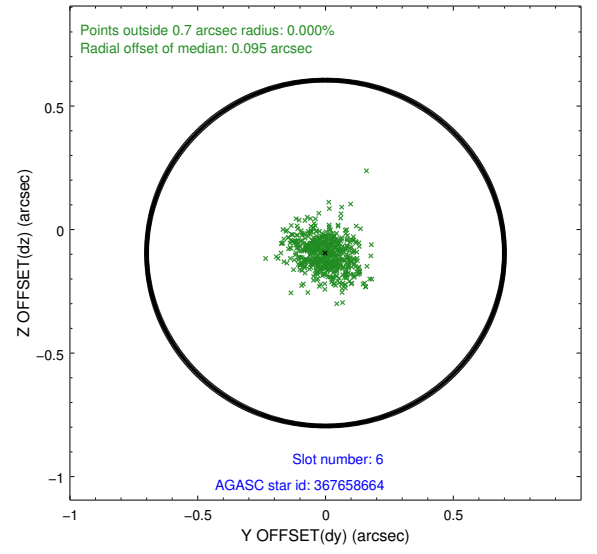
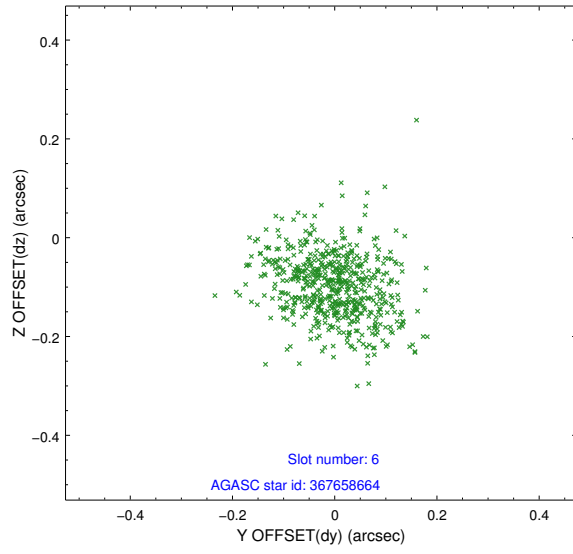
## 2.4.2 Slot 4



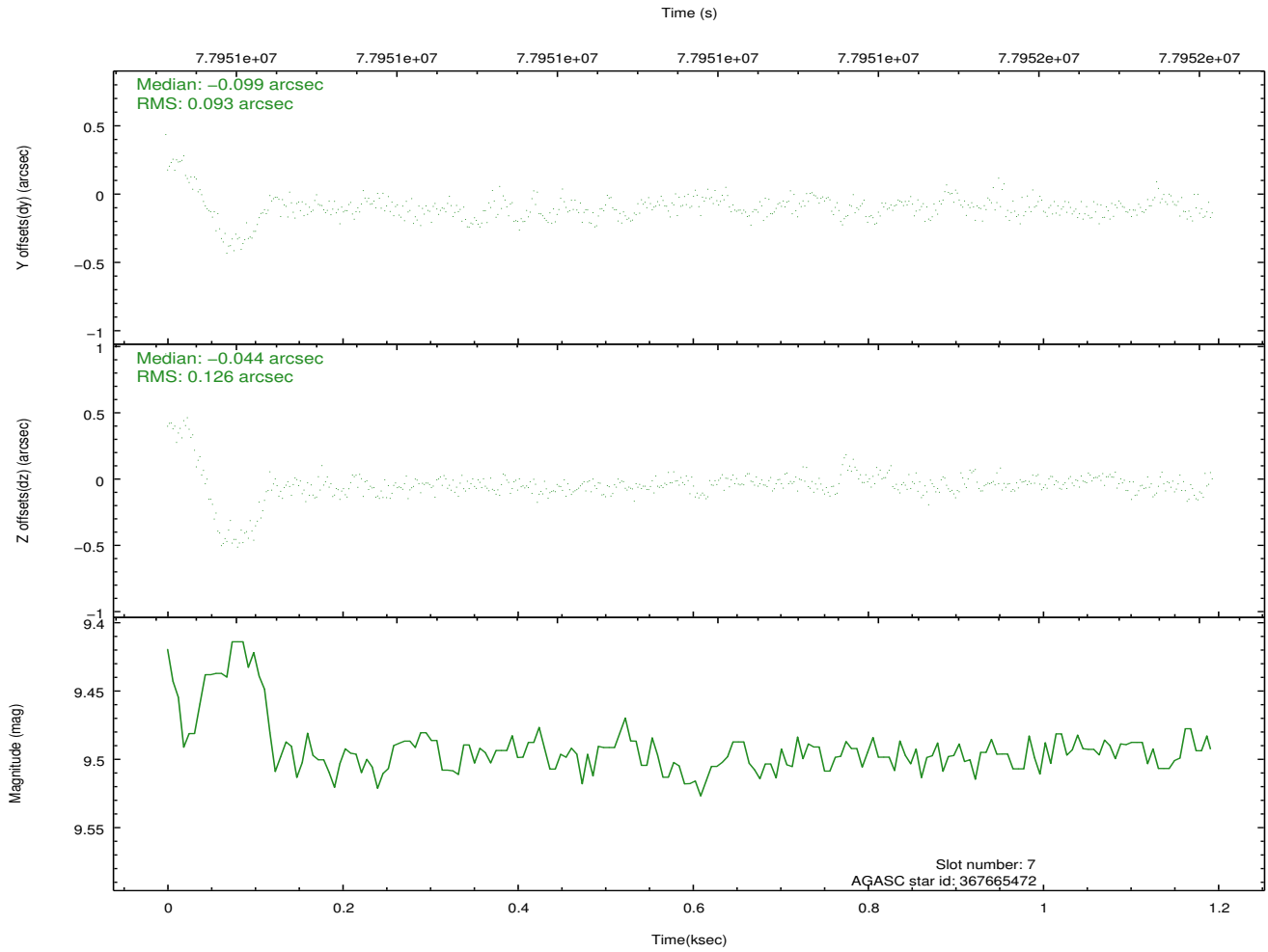
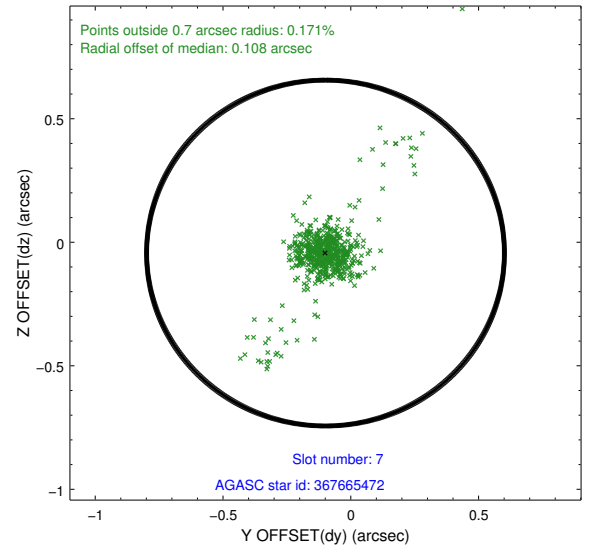
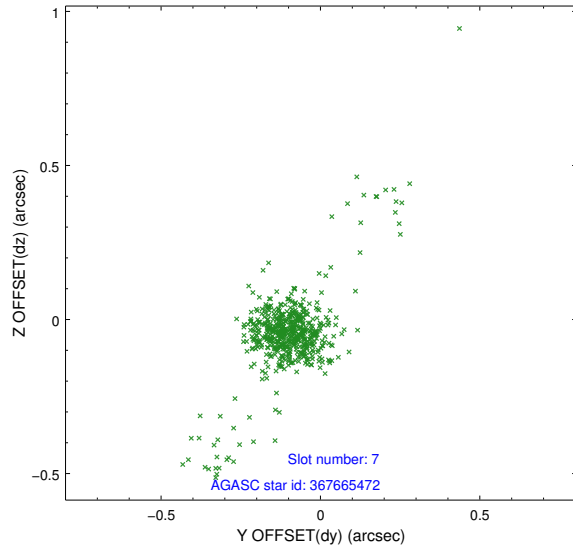
### 2.4.3 Slot 5



## 2.4.4 Slot 6

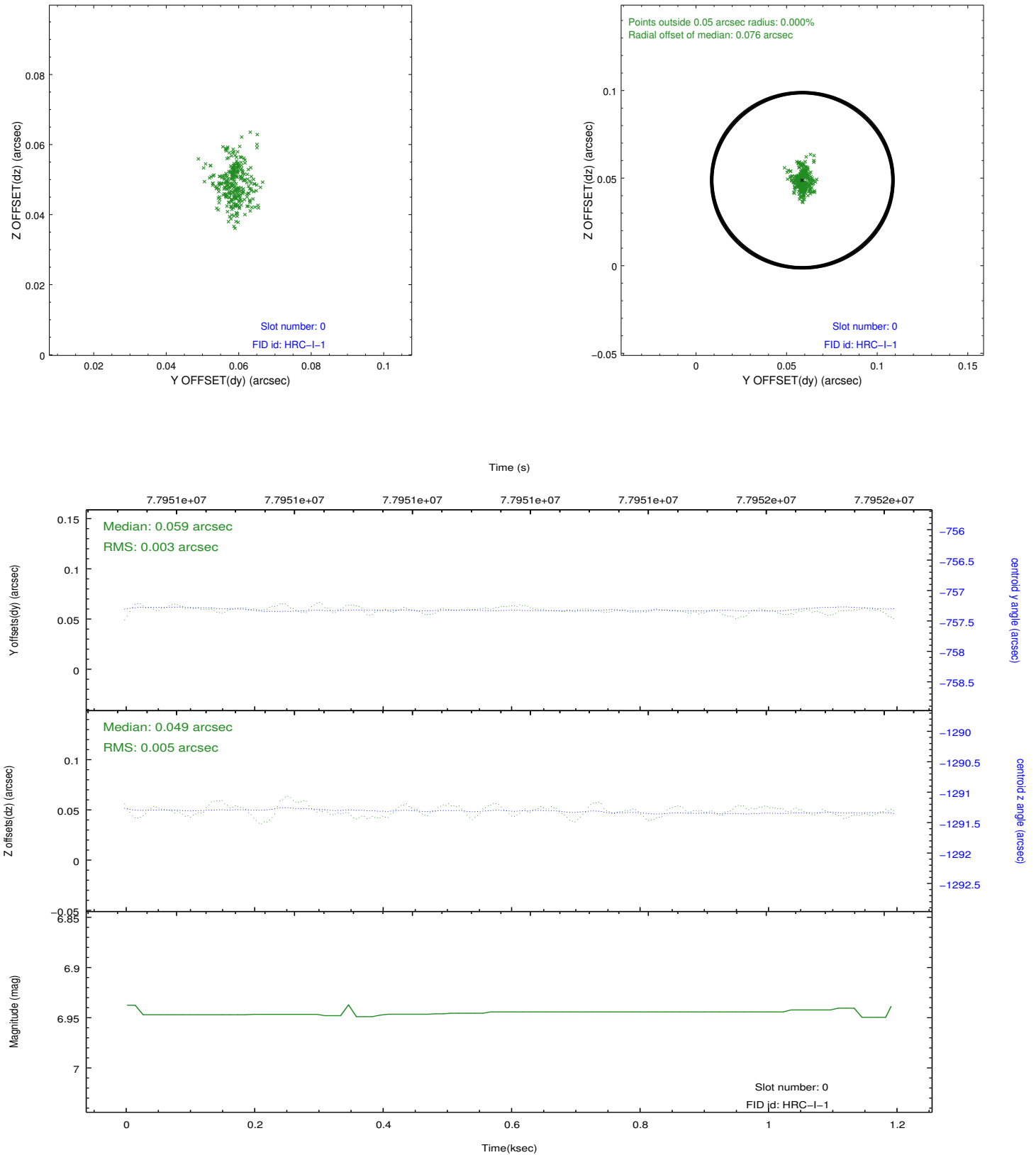


## 2.4.5 Slot 7

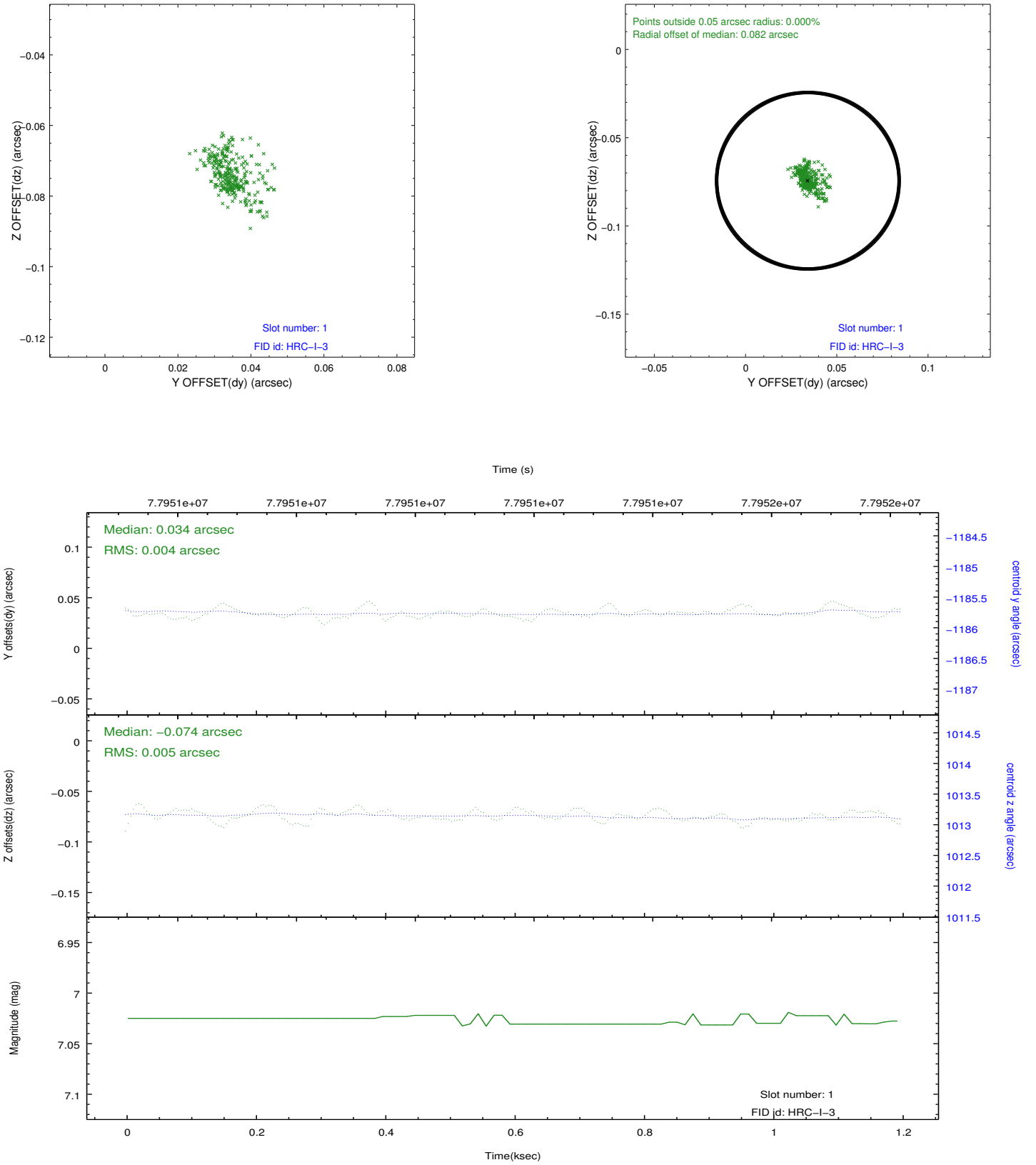


## 2.5 FID Slots

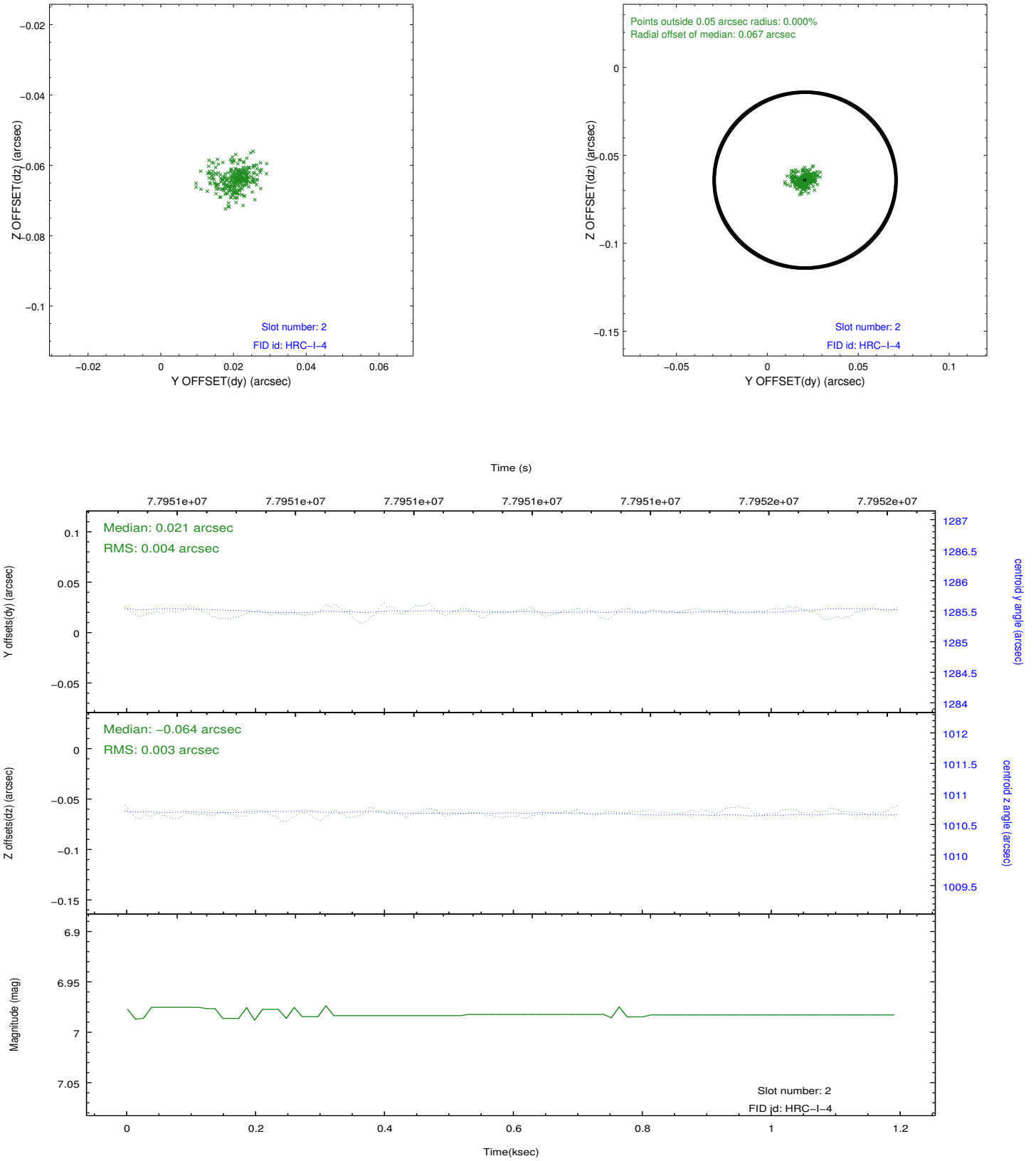
### 2.5.1 Slot 0



## 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)      | 2012.08.31 |
| V&V Edition                | 1          |
| V&V Disposition and Status | OK         |
| V&V Charge Time            | 1.196      |

### A.2 Comments