

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1489 - L2 Version 5

Chandra X-Ray Center

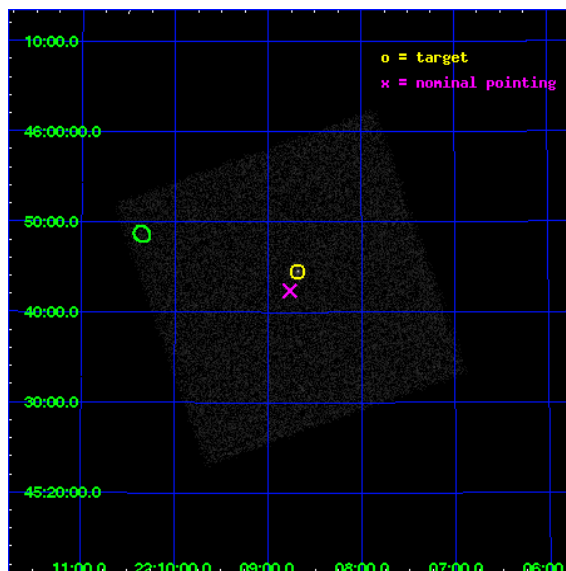
L2 Processing Date : Nov 25 2009

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1 Front

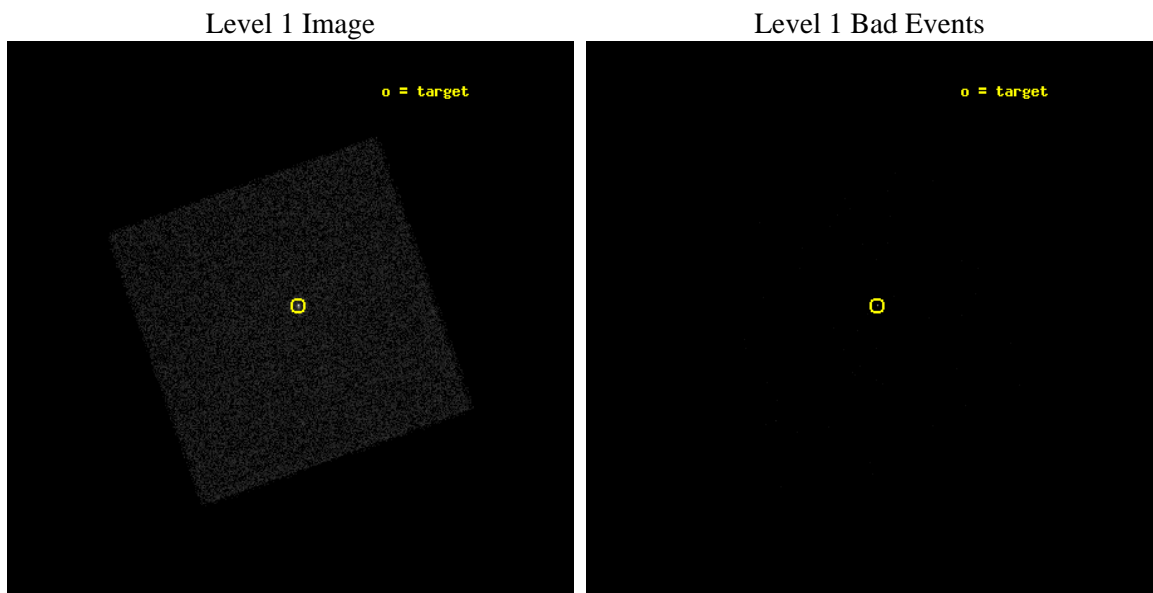
| | | |
|----------|---------------------|---------------------------------|
| seq_num | 280439 | Sequence number |
| obs_id | 1489 | Observation id |
| title | | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ArLac | Source name |
| ra_targ | 332.1701 | Observer's specified target RA |
| dec_targ | 45.7423 | Observer's specified target Dec |
| ra_nom | 332.19156665323 | Nominal RA |
| dec_nom | 45.706530841214 | Nominal Dec |
| roll_nom | 295.37438603575 | Nominal Roll |
| revision | 5 | Processing version of data |
| ontime | 1213.8562939391 | [s] |
| livetime | 1205.9771504045 | Ontime multiplied by DTCOR |
| l2events | 41222 | 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 | Scheduled observation exposure time |
| ascdsver | 8.1.1 | Processing system revision | ontime | 1213.8562939391 | [s] |
| caldbver | 4.1.4 | | l1events | 63116 | Number of level 1 events |
| date | 2009-11-25T11:43:43 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

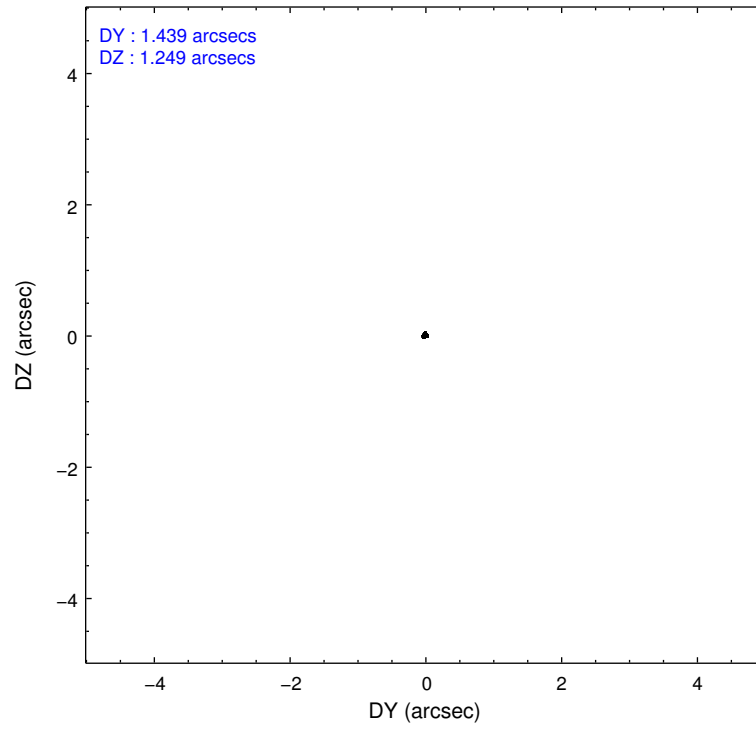
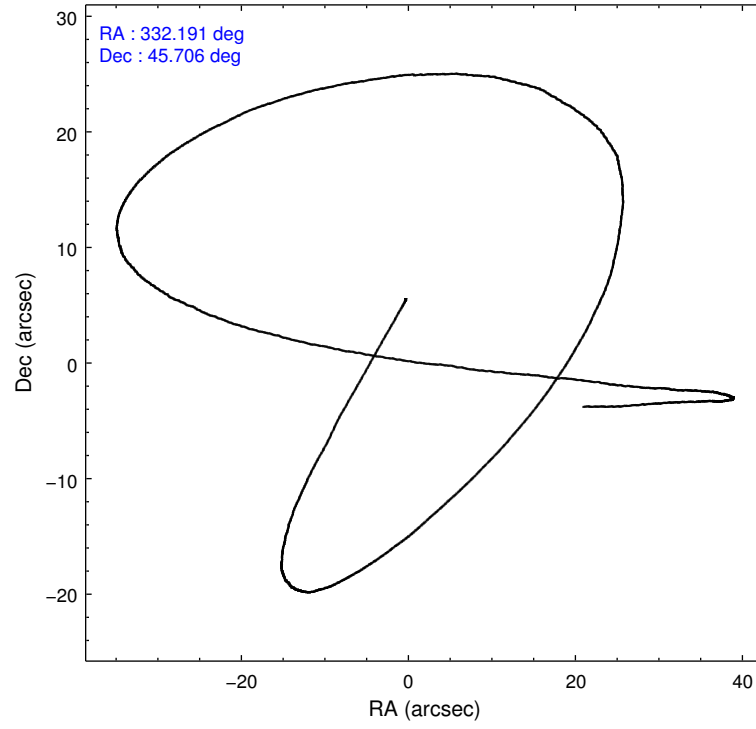
Level 1 Events

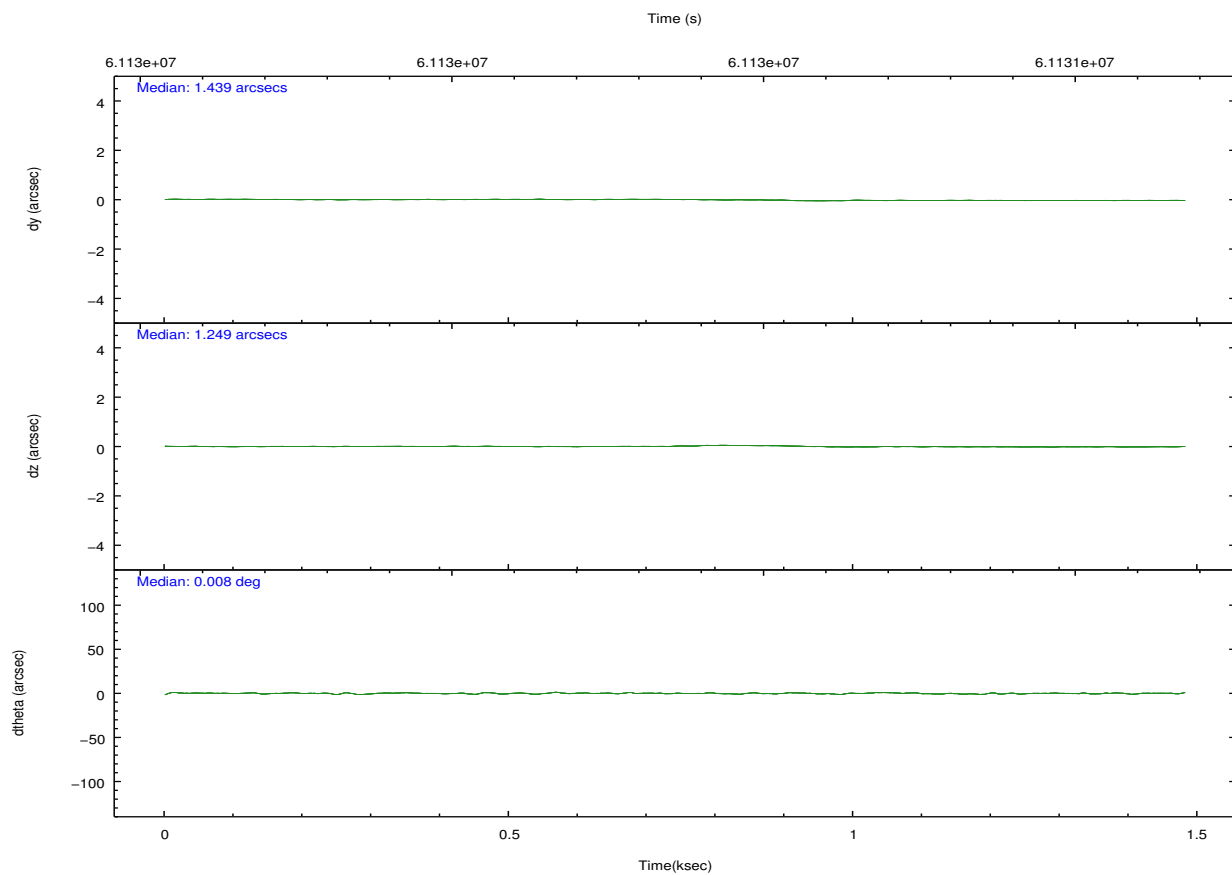
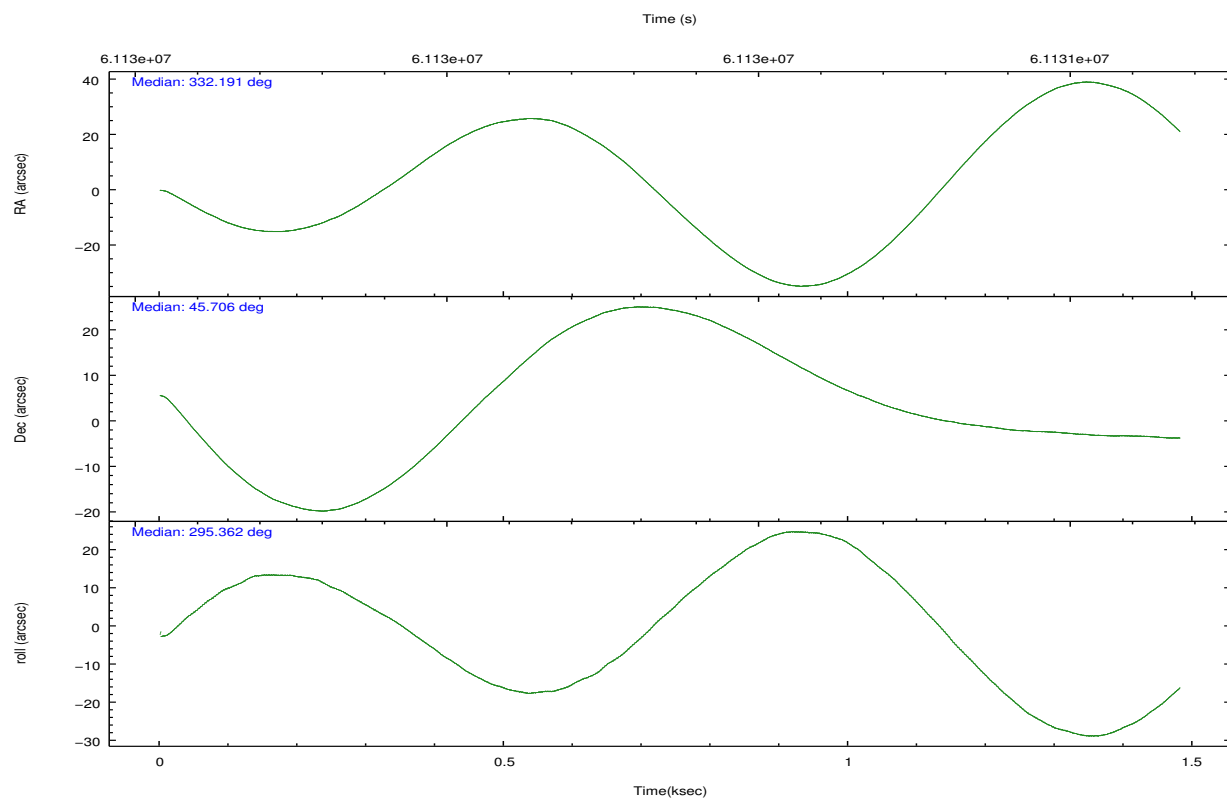
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 63116 |
| rejected events | 2551 |
| rejected % | 4% |

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 | 332.158467 | 332.1915666532313 | | | |
| Pointing Dec | 45.722931 | 45.70653084121401 | | | |
| Pointing Roll | 295.493565 | 295.3743860357465 | | | |
| 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 | 61130099.184000 | 61129432.70253 | | | |
| Observation start date | 1999-12-09T12:33:55 | 1999-12-09T12:23:52 | | | |
| Observation end time | 61131099.184000 | 61131232.602595 | | | |
| Observation end date | 1999-12-09T12:50:35 | 1999-12-09T12:53:52 | | | |

2.3 Aspect



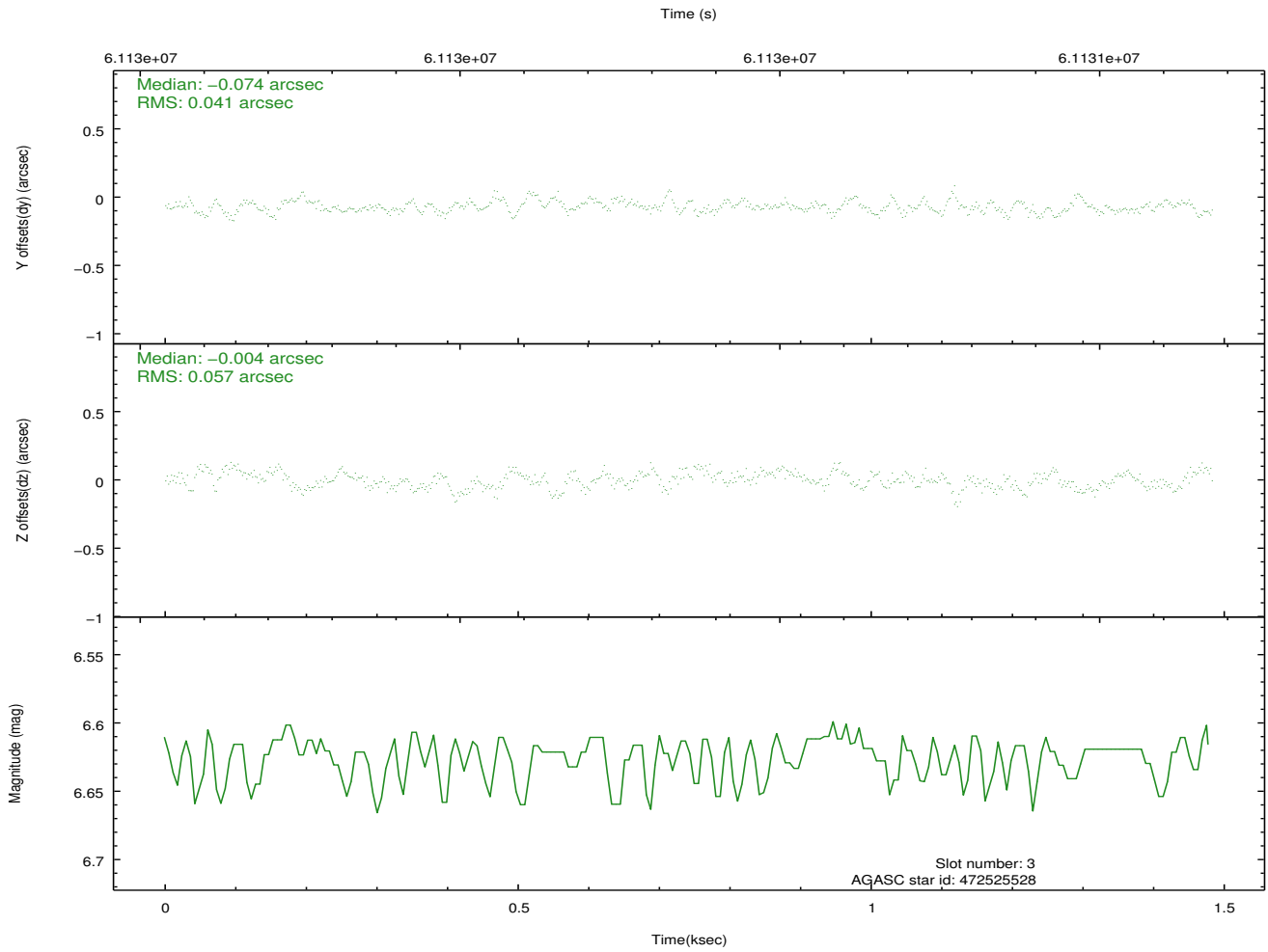
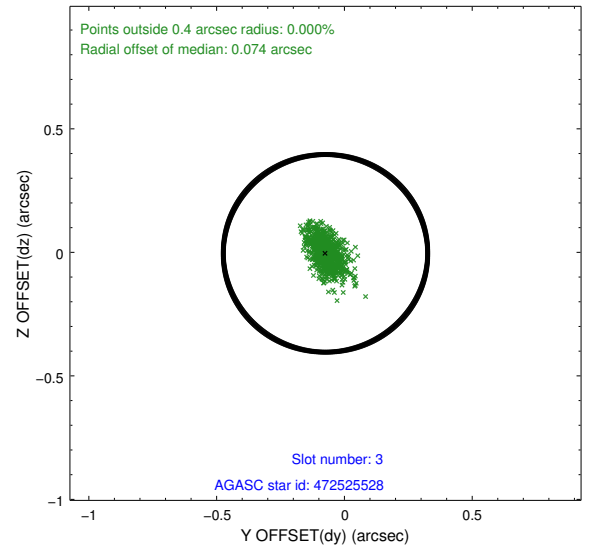
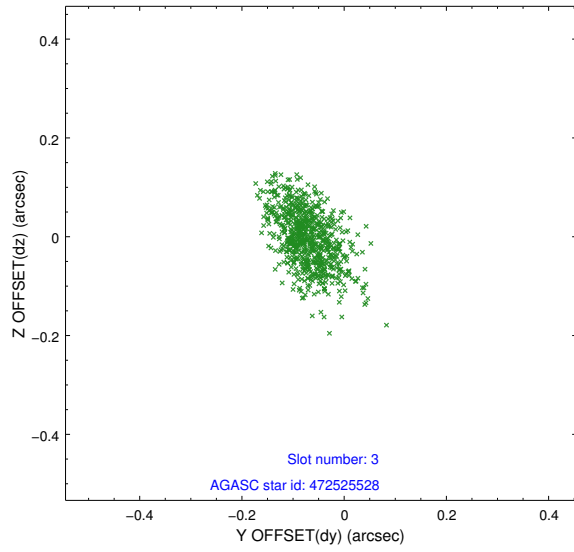


Slot Statistics

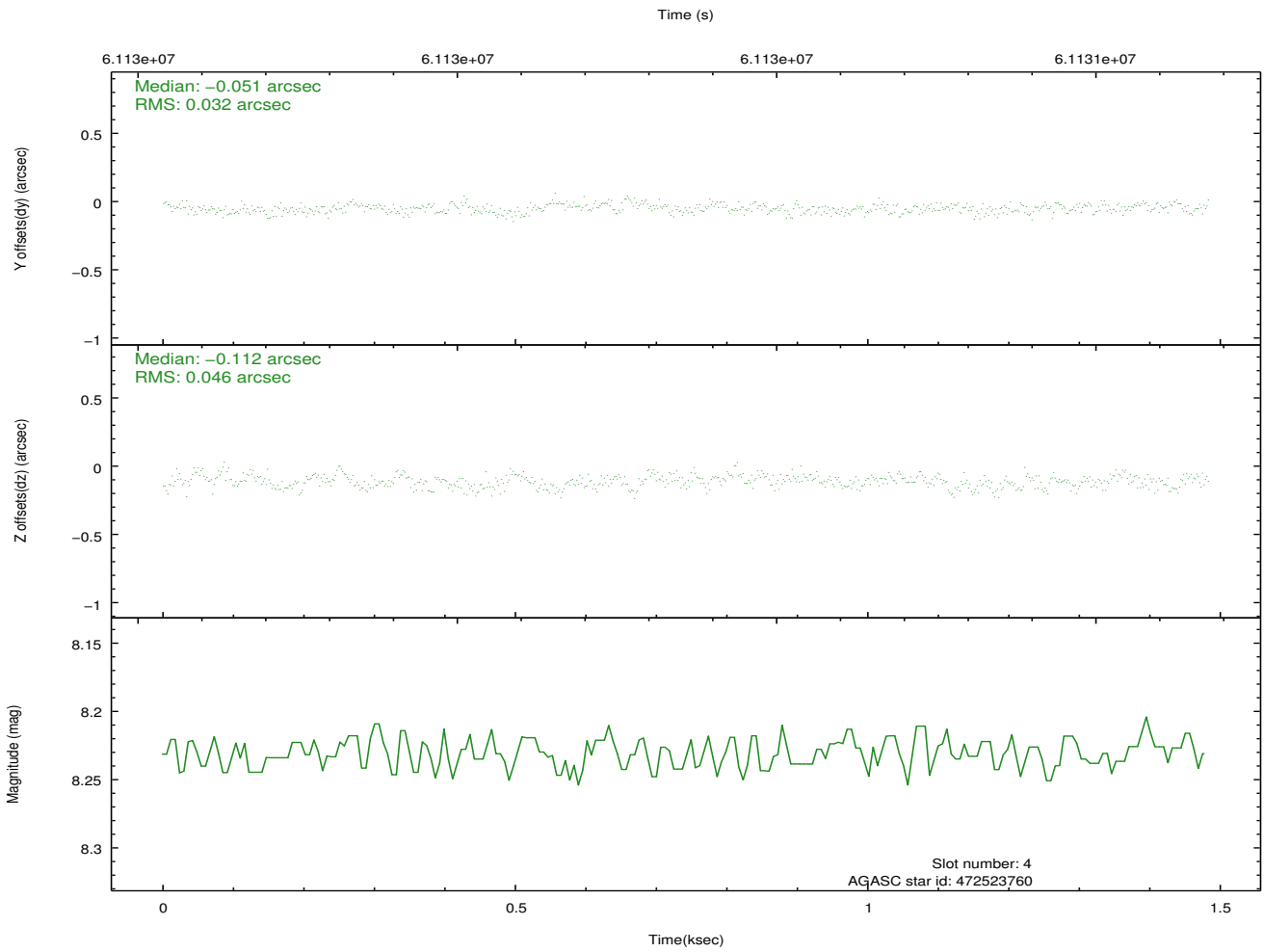
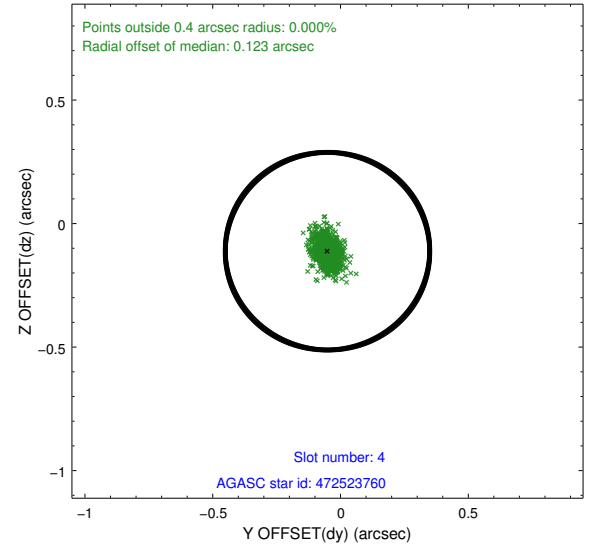
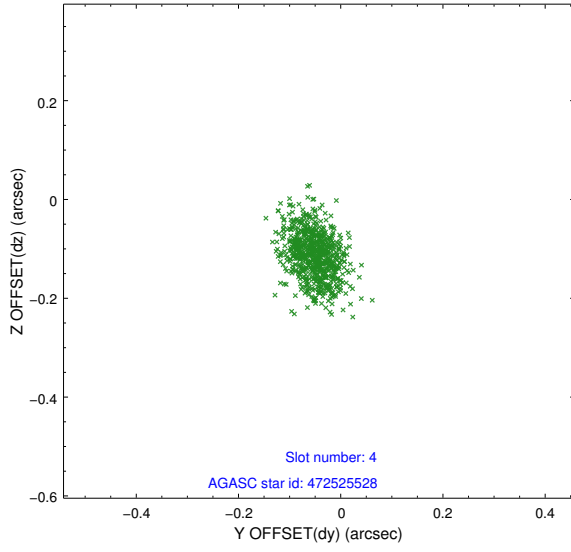
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.97 | 724 | 0.009 | -0.055 | 0.005 | 0.010 | 0.000000 | 0.000000 | -756.84 | -1289.05 |
| 1 | FID | HRC-I-3 | 7.05 | 724 | 0.051 | -0.035 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1186.36 | 1013.75 |
| 2 | FID | HRC-I-4 | 6.99 | 724 | 0.054 | 0.001 | 0.004 | 0.008 | 0.000000 | 0.000000 | 1284.33 | 1014.60 |
| 3 | GUIDE | 472525528 | 6.62 | 724 | -0.074 | -0.004 | 0.073 | 0.124 | 331.551102 | 45.248694 | 870.46 | -2121.37 |
| 4 | GUIDE | 472523760 | 8.23 | 724 | -0.051 | -0.112 | 0.057 | 0.096 | 331.645363 | 45.403260 | 475.17 | -1666.86 |
| 5 | GUIDE | 472665256 | 9.02 | 724 | -0.080 | -0.032 | 0.069 | 0.114 | 332.808125 | 46.195041 | -846.37 | 2193.40 |
| 6 | GUIDE | 472659832 | 9.47 | 723 | 0.010 | 0.108 | 0.089 | 0.144 | 332.780399 | 46.098139 | -561.22 | 1988.66 |
| 7 | GUIDE | 472655704 | 9.48 | 722 | 0.186 | 0.038 | 0.086 | 0.141 | 332.167195 | 45.285228 | 1428.25 | -654.87 |

2.4 Star Slots

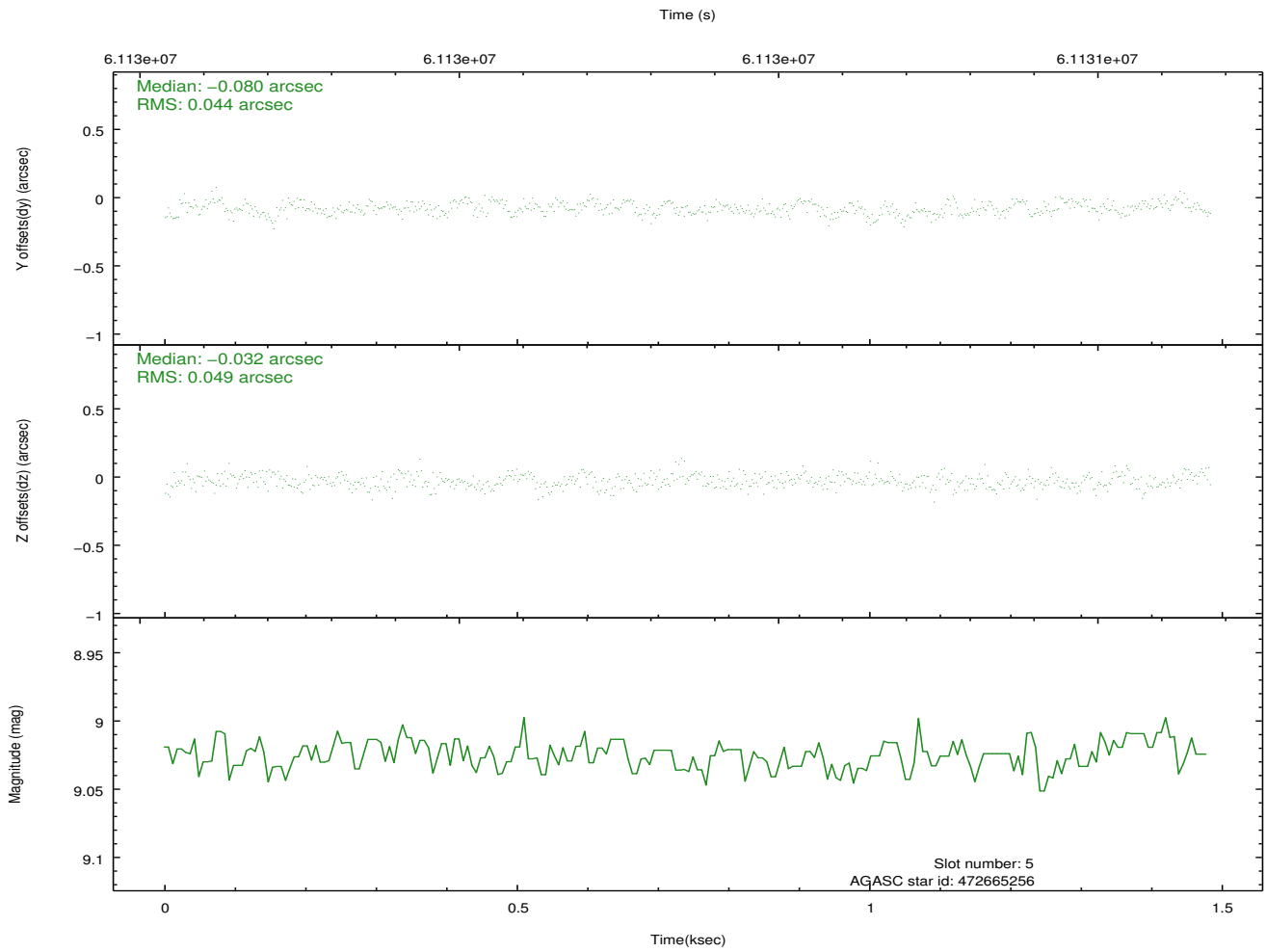
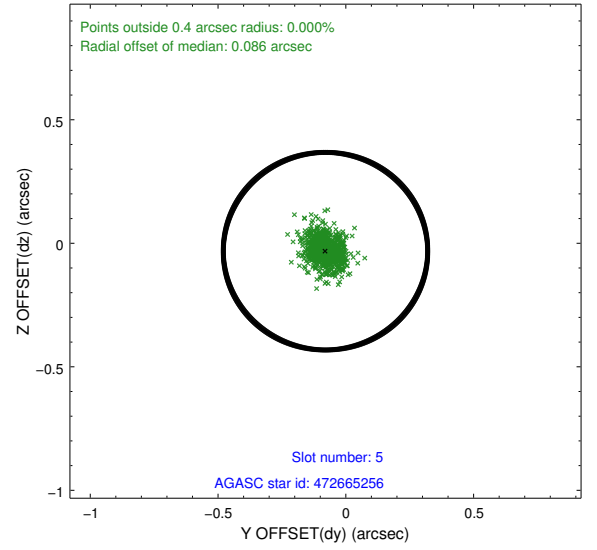
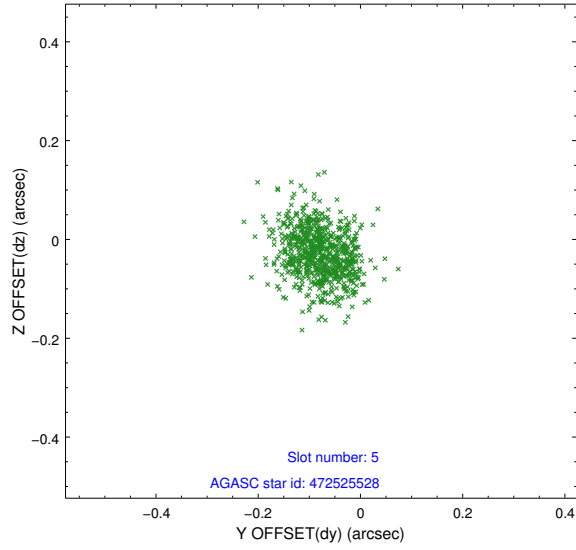
2.4.1 Slot 3



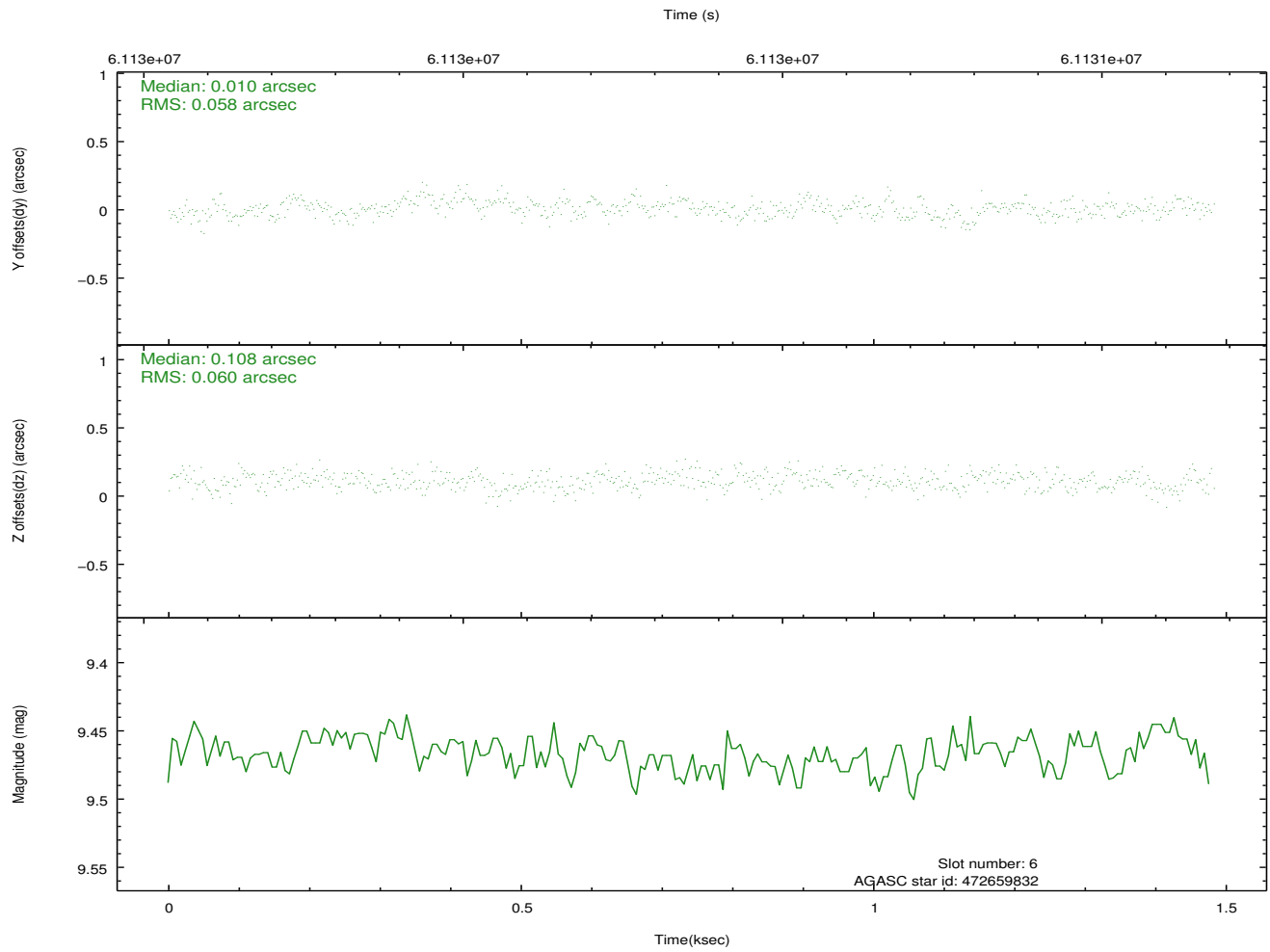
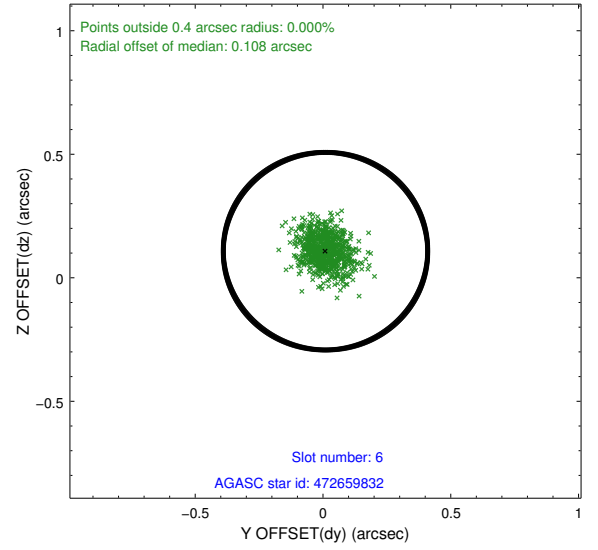
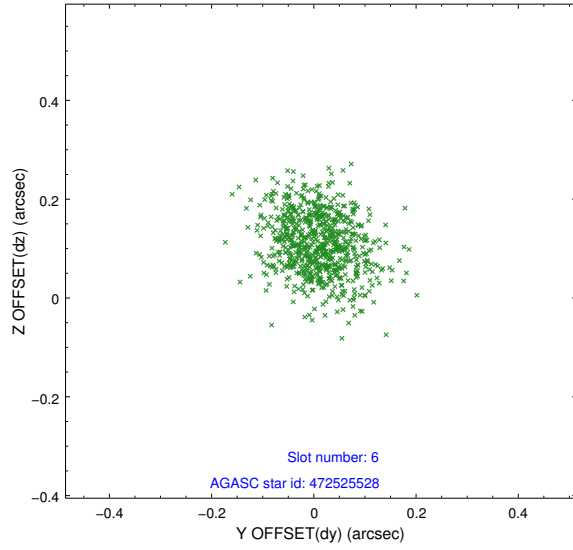
2.4.2 Slot 4



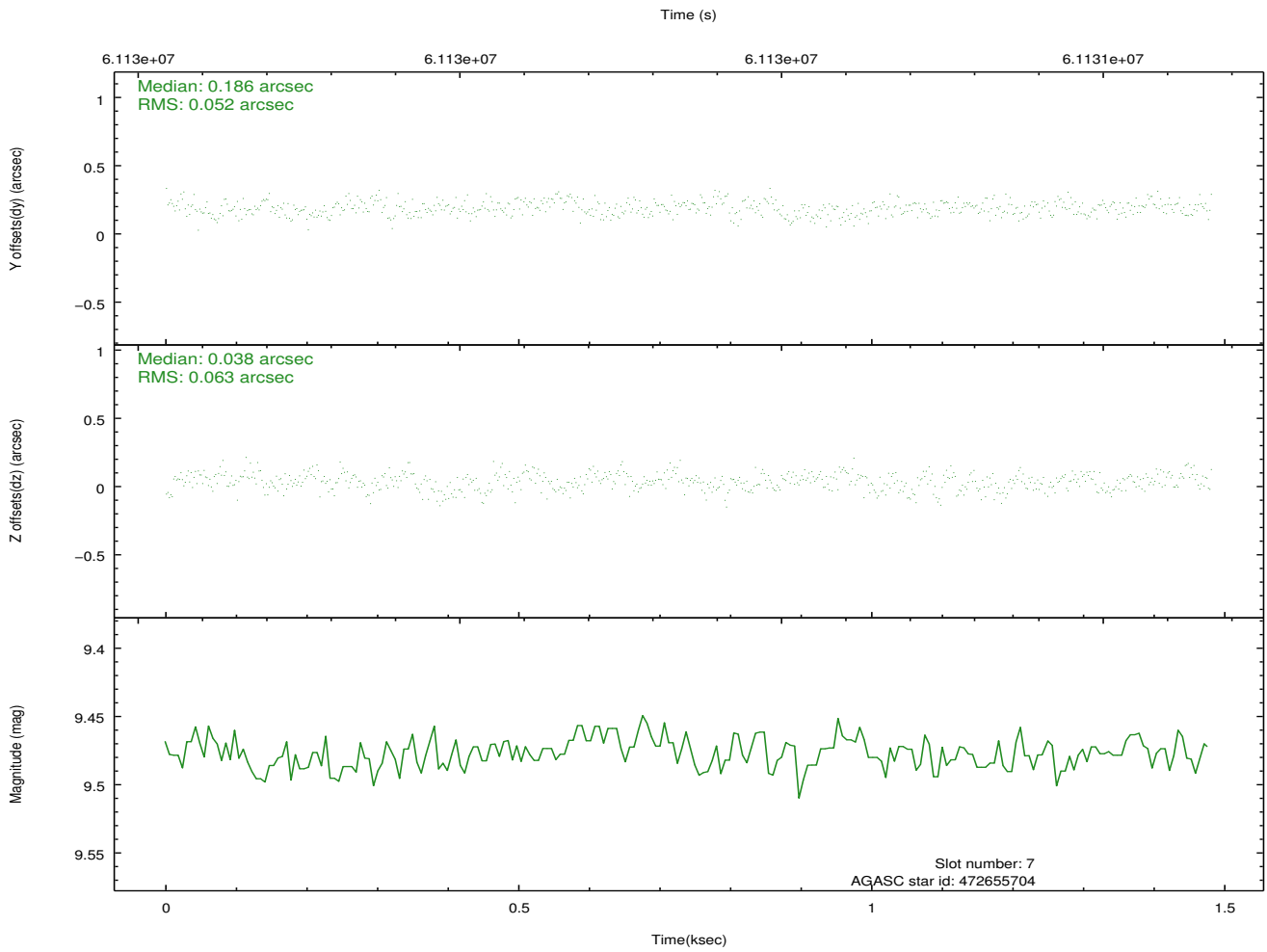
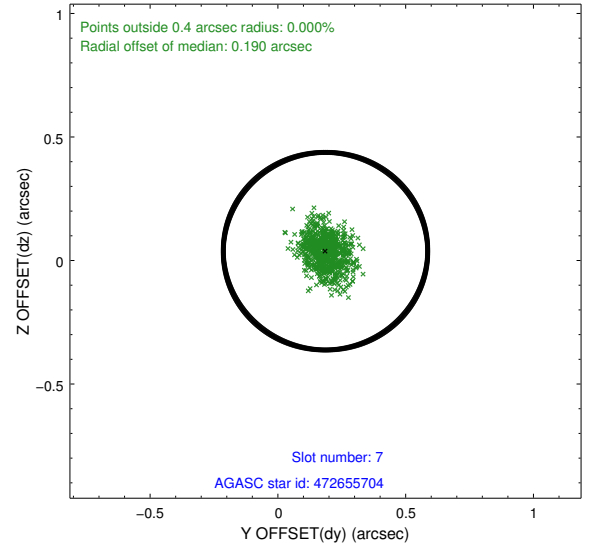
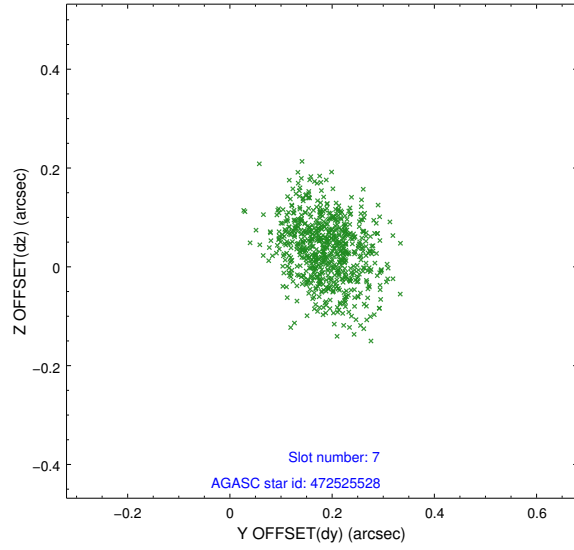
2.4.3 Slot 5



2.4.4 Slot 6

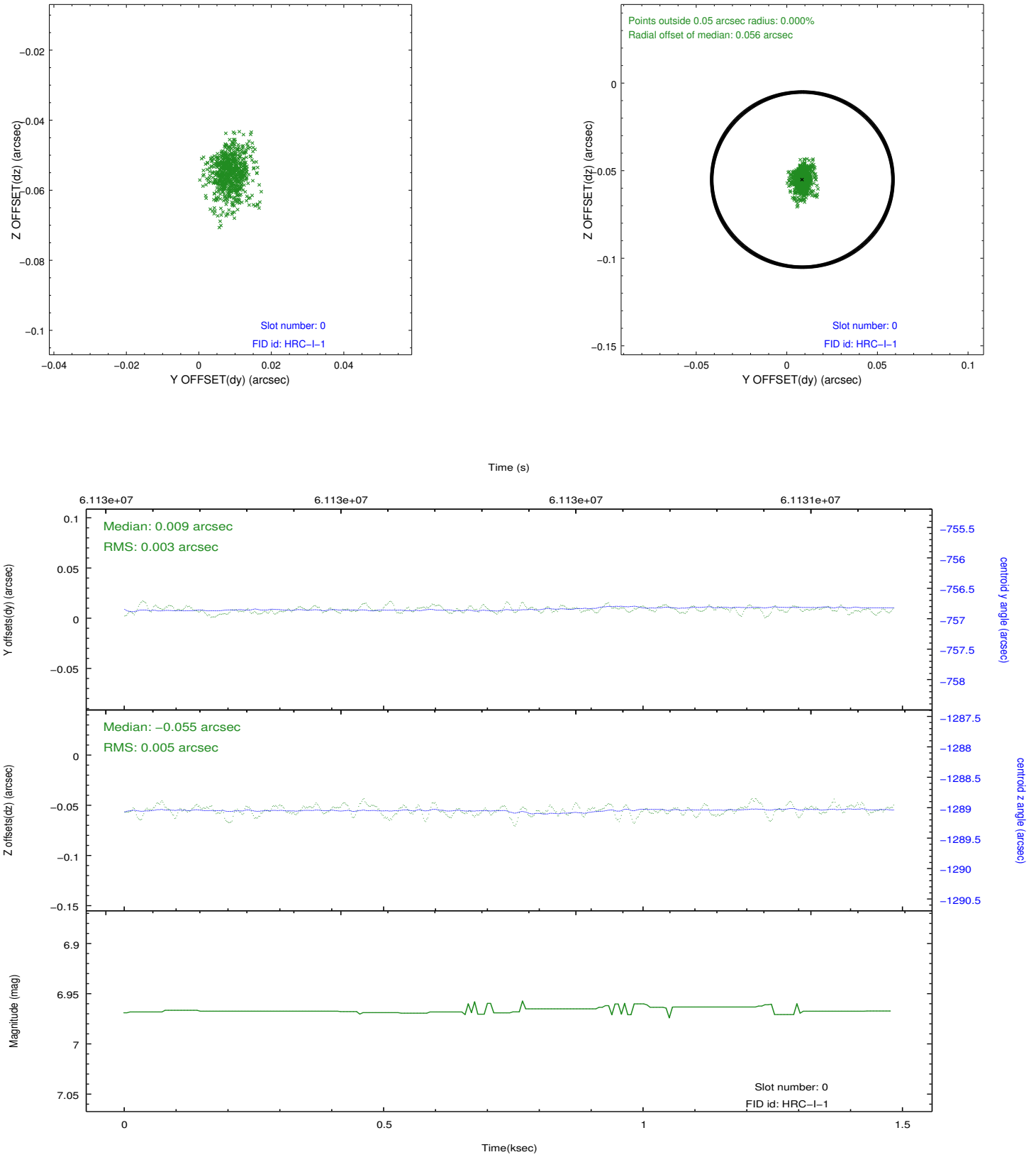


2.4.5 Slot 7

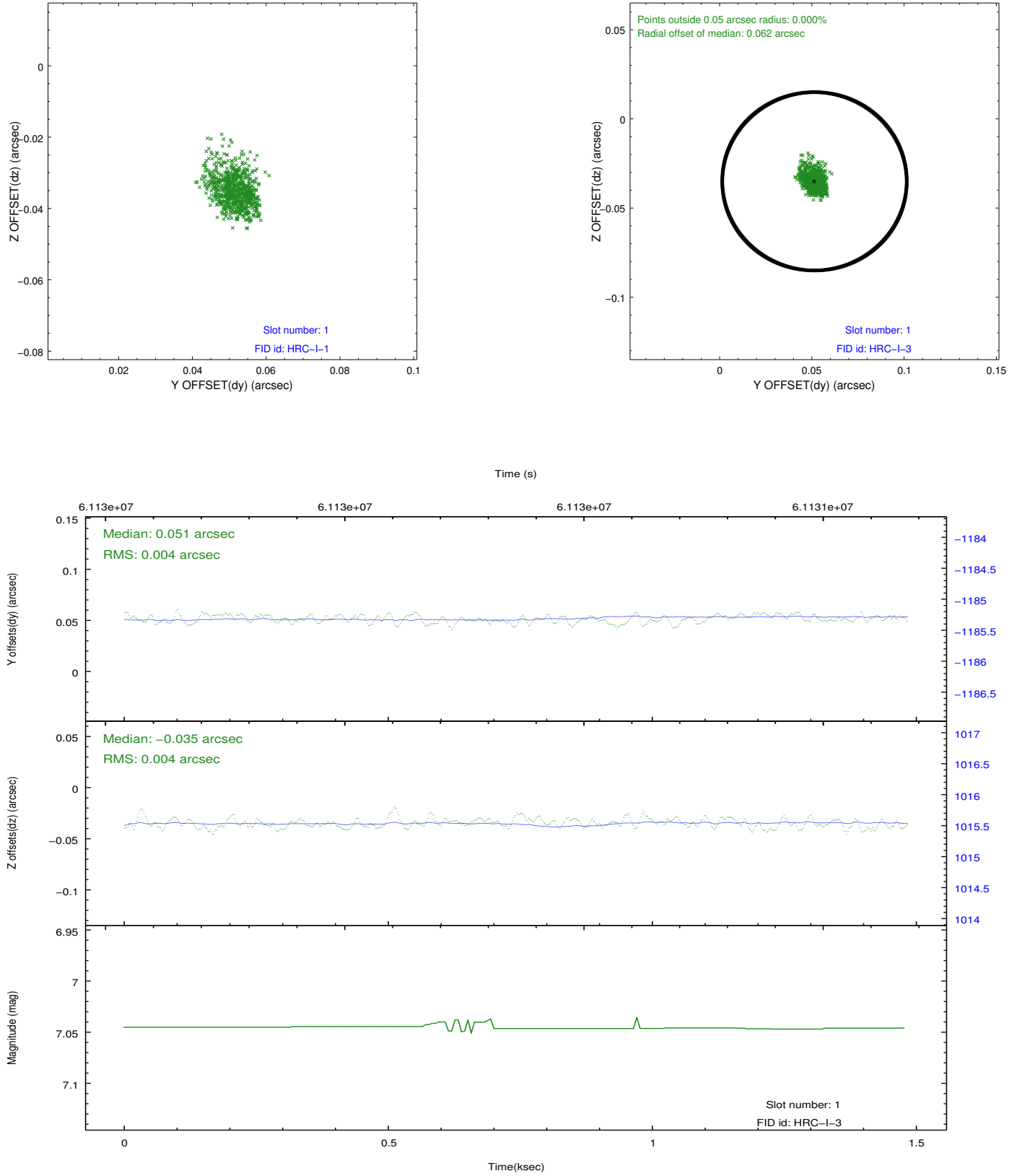


2.5 FID Slots

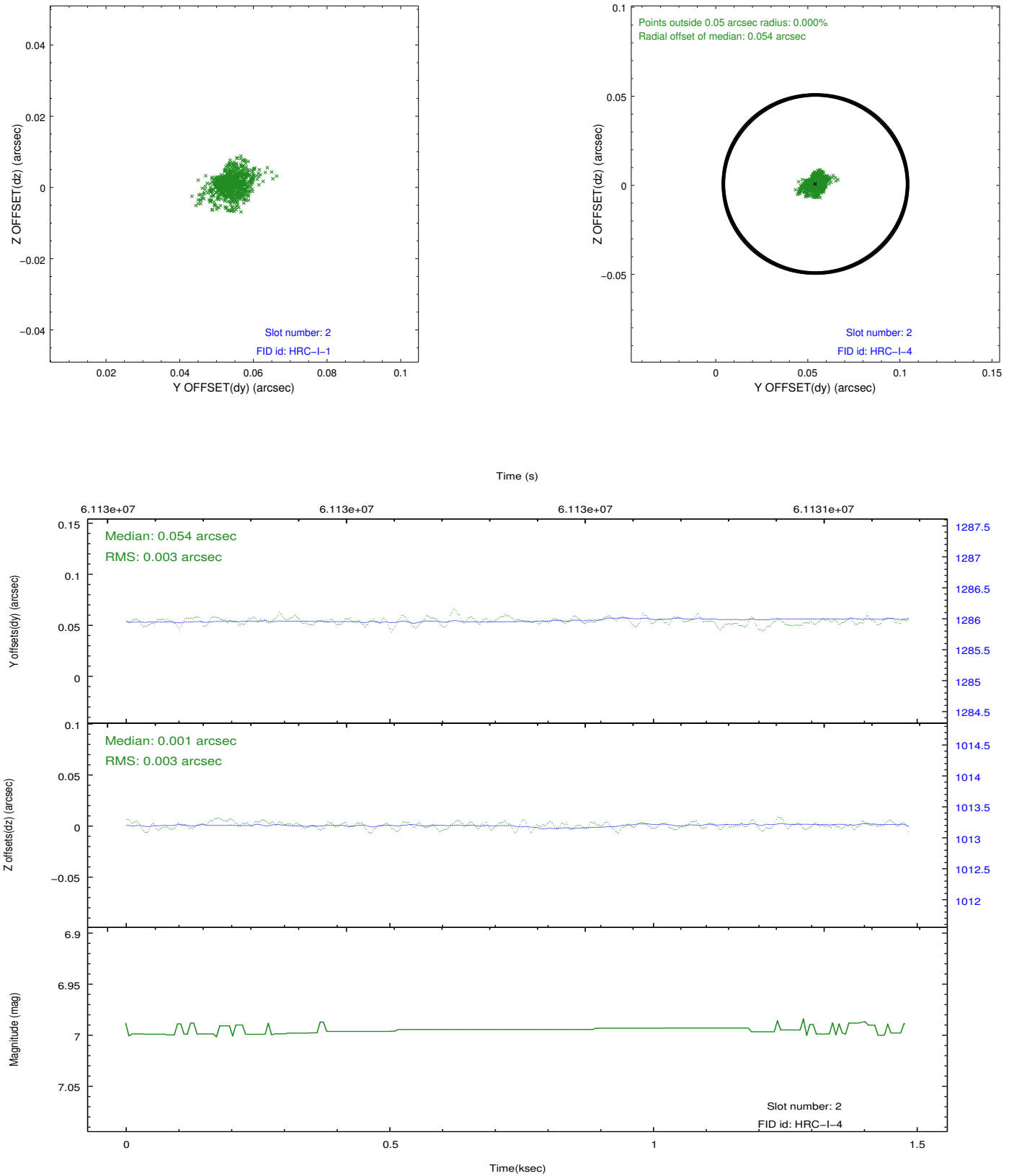
2.5.1 Slot 0



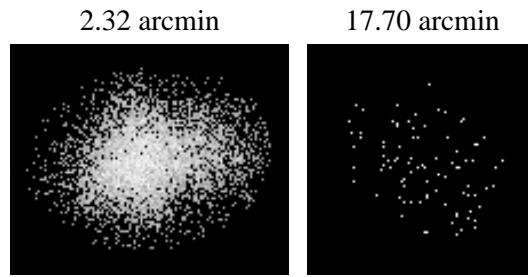
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2009.11.25 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.213 |

A.2 Comments

HRC-I cal: ARLac for image blur