

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4303 - L2 Version 4
Chandra X-Ray Center

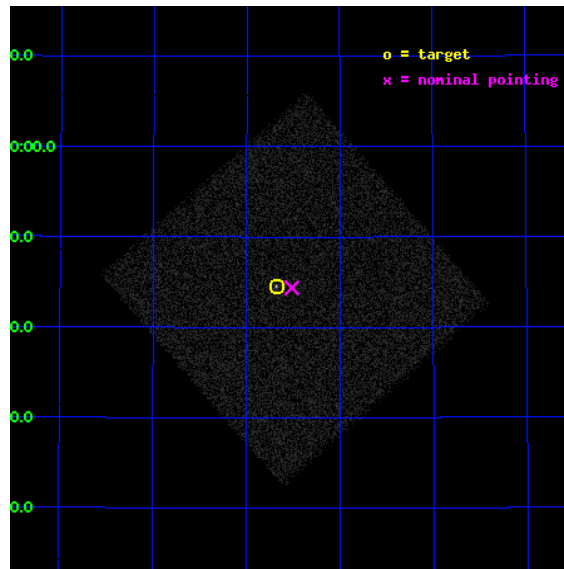
L2 Processing Date : Oct 23 2012

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1 Front

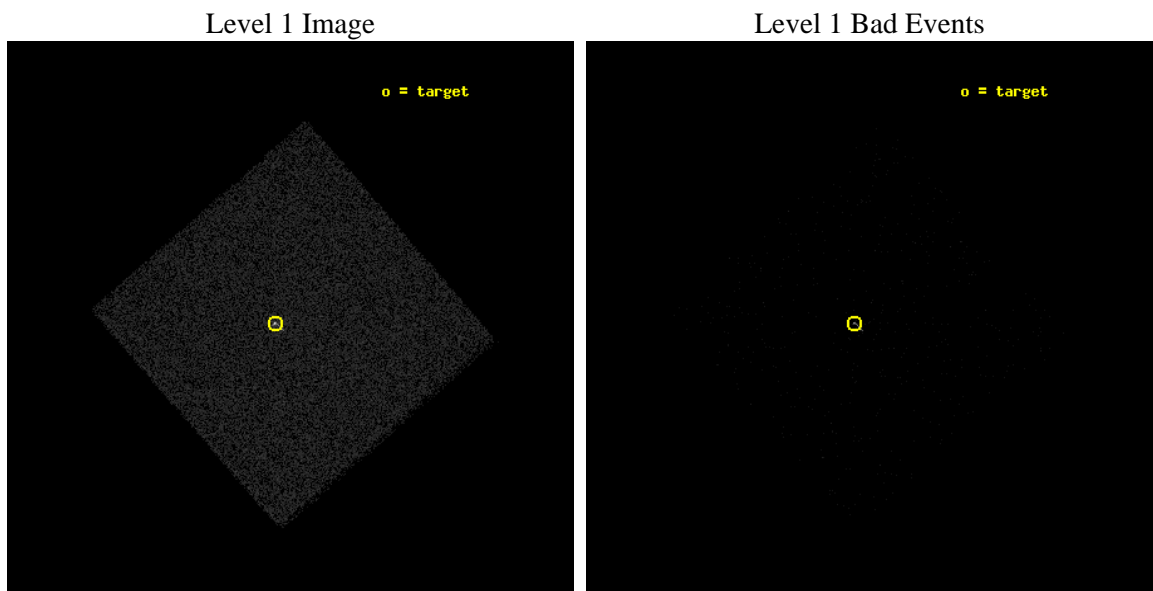
| | | |
|----------|--|---------------------------------------|
| seq_num | 290263 | Sequence number |
| obs_id | 4303 | Observation id |
| title | AO4 CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-I GAIN | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ARLAC | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.12843055921 | Nominal RA [deg] |
| dec_nom | 45.739774649119 | Nominal Dec [deg] |
| roll_nom | 3.8972595051261 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 1186.181299895 | [s] |
| livetime | 1178.9125430473 | Ontime multiplied by DTCOR |
| l2events | 45675 | 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 | 1186.181299895 | [s] |
| caldbver | 4.5.2 | | l1events | 81075 | Number of level 1 events |
| date | 2012-10-23T09:29:03 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

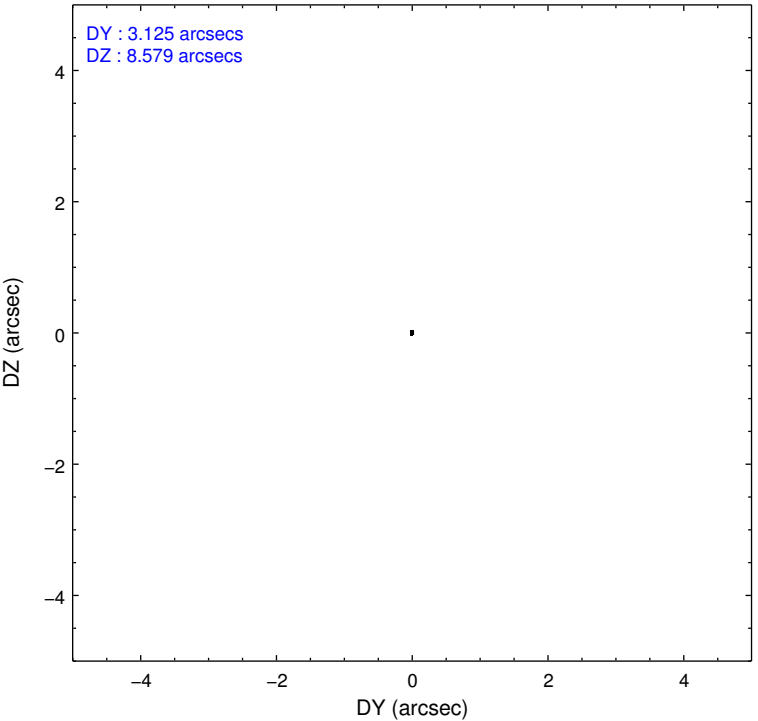
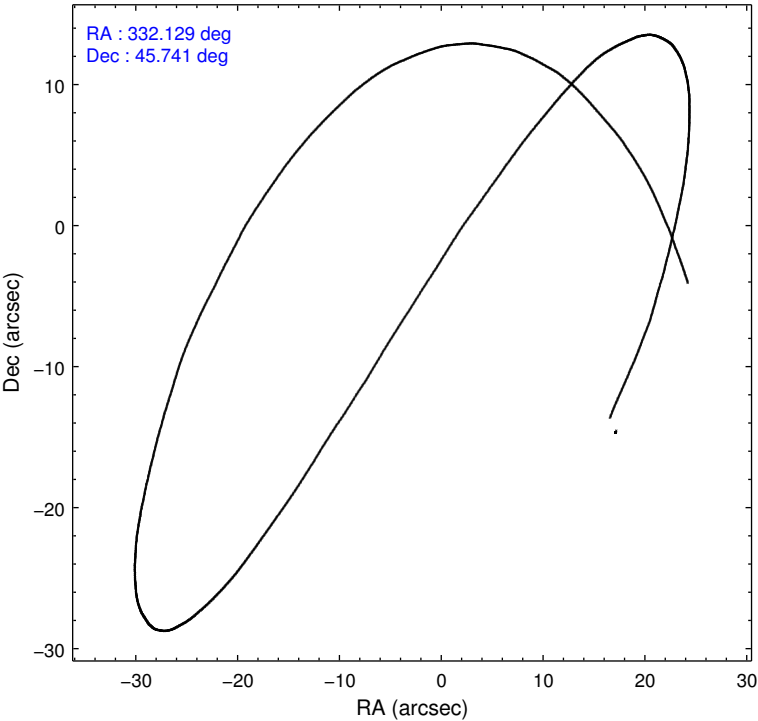
Level 1 Events

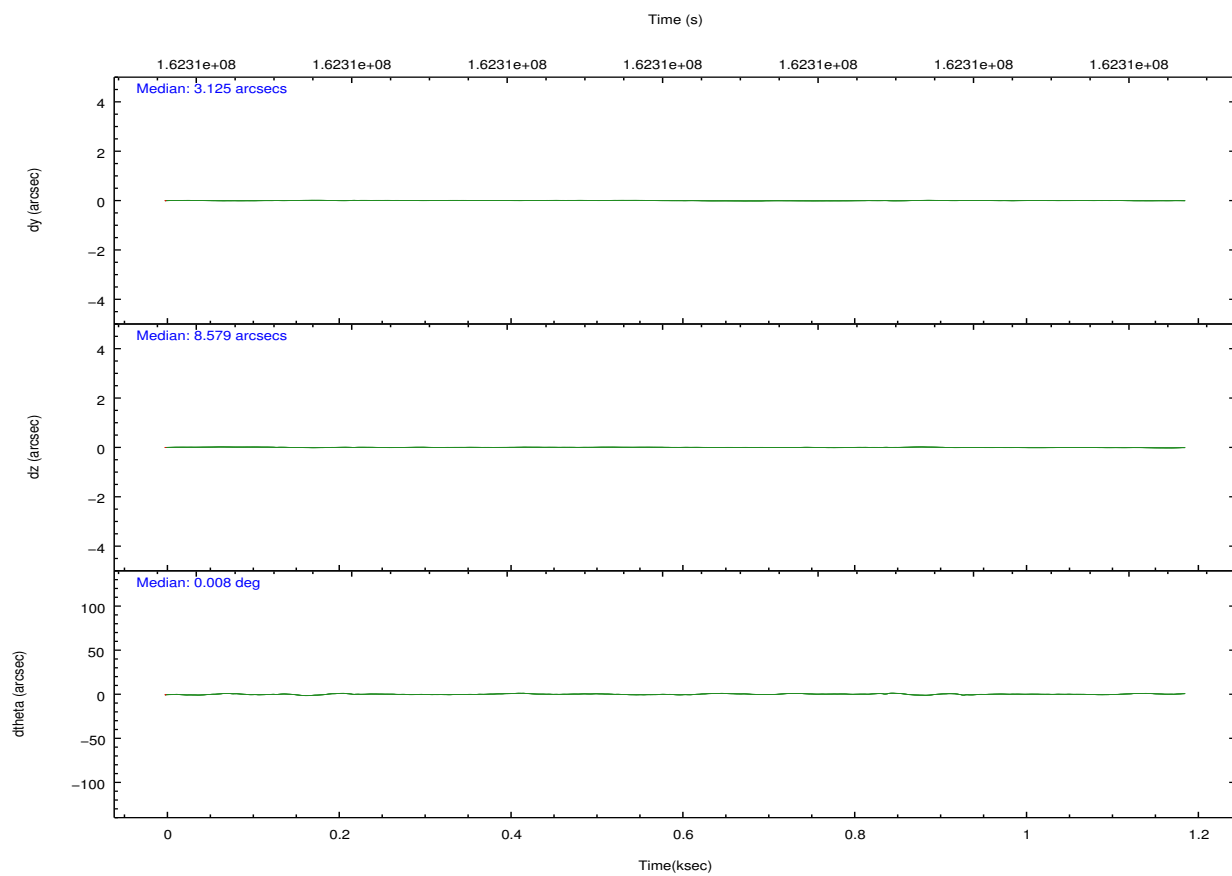
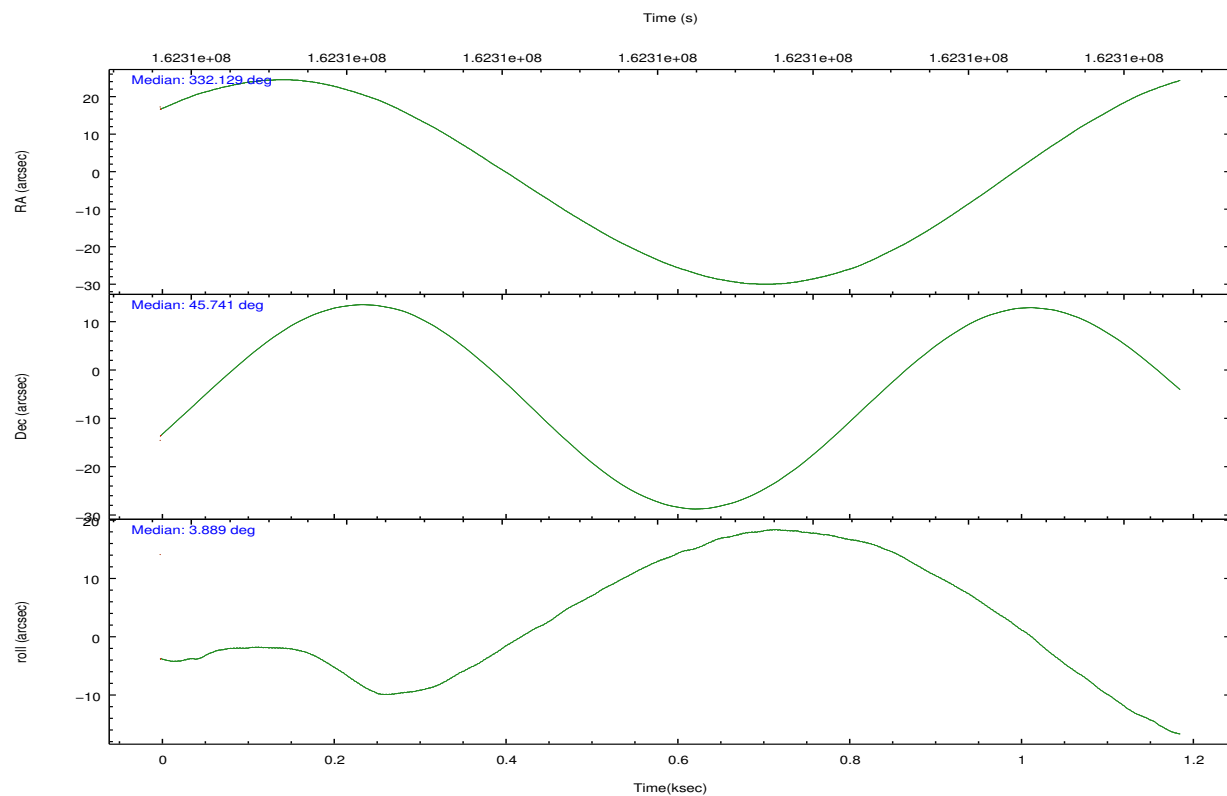
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 81075 |
| rejected events | 17569 |
| rejected % | 21% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|------------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| 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 | | | |
| [deg] Pointing RA | 332.096294 | 332.1284305592144 | | | |
| [deg] Pointing Dec | 45.723014 | 45.73977464911865 | | | |
| [deg] Pointing Roll | 4.015749 | 3.897259505126084 | | | |
| [s] Window start time (MET) | 161654464.184000 | 161654464.184000 | | | |
| [s] Window stop time (MET) | 165369664.184000 | 165369664.184000 | | | |
| [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) | 162313208.184000 | 162312831.39537 | | | |
| Observation start date | 2003-02-22T14:59:04 | 2003-02-22T14:53:51 | | | |
| [s] Observation end time (MET) | 162314208.184000 | 162314342.24543 | | | |
| Observation end date | 2003-02-22T15:15:44 | 2003-02-22T15:19:02 | | | |

2.3 Aspect



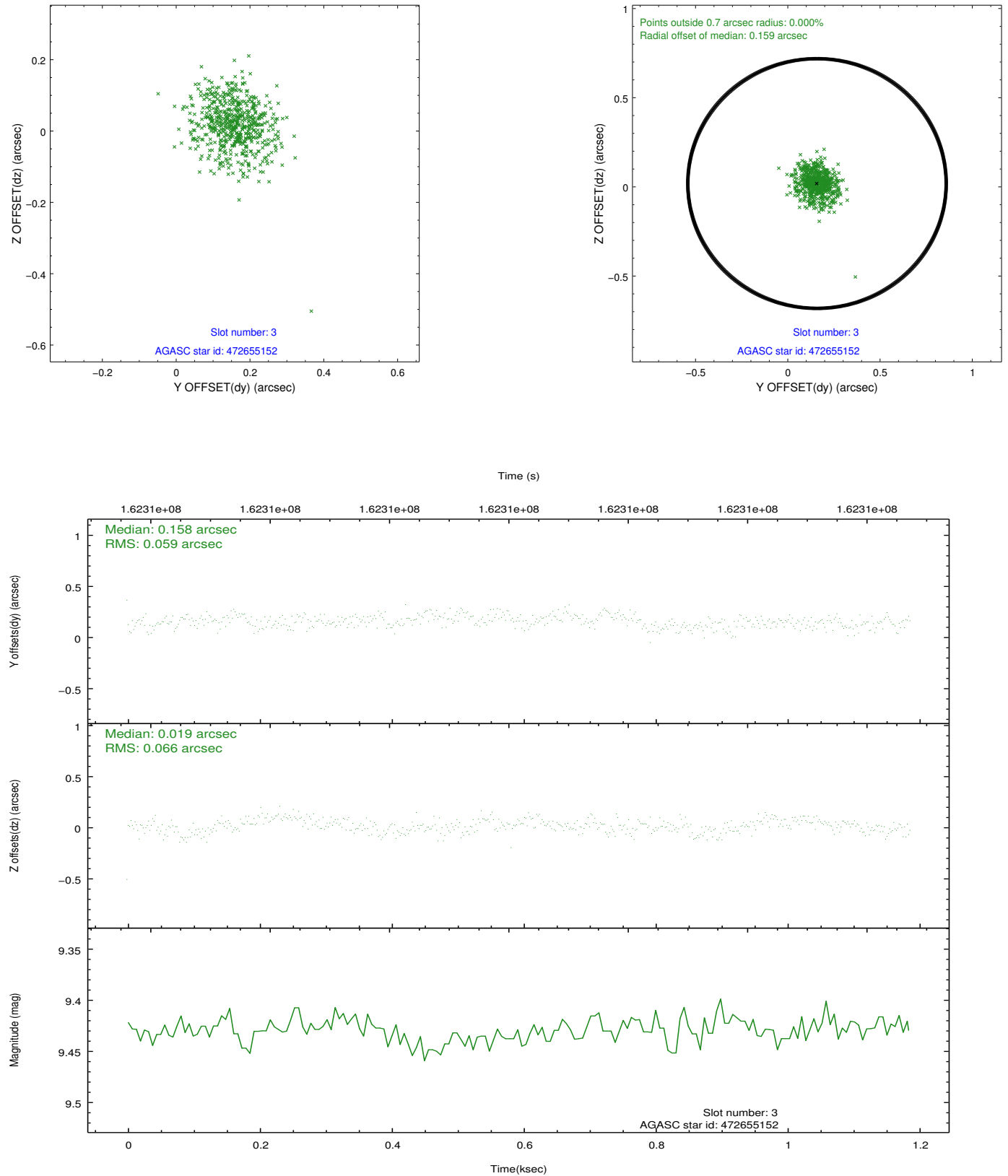


Slot Statistics

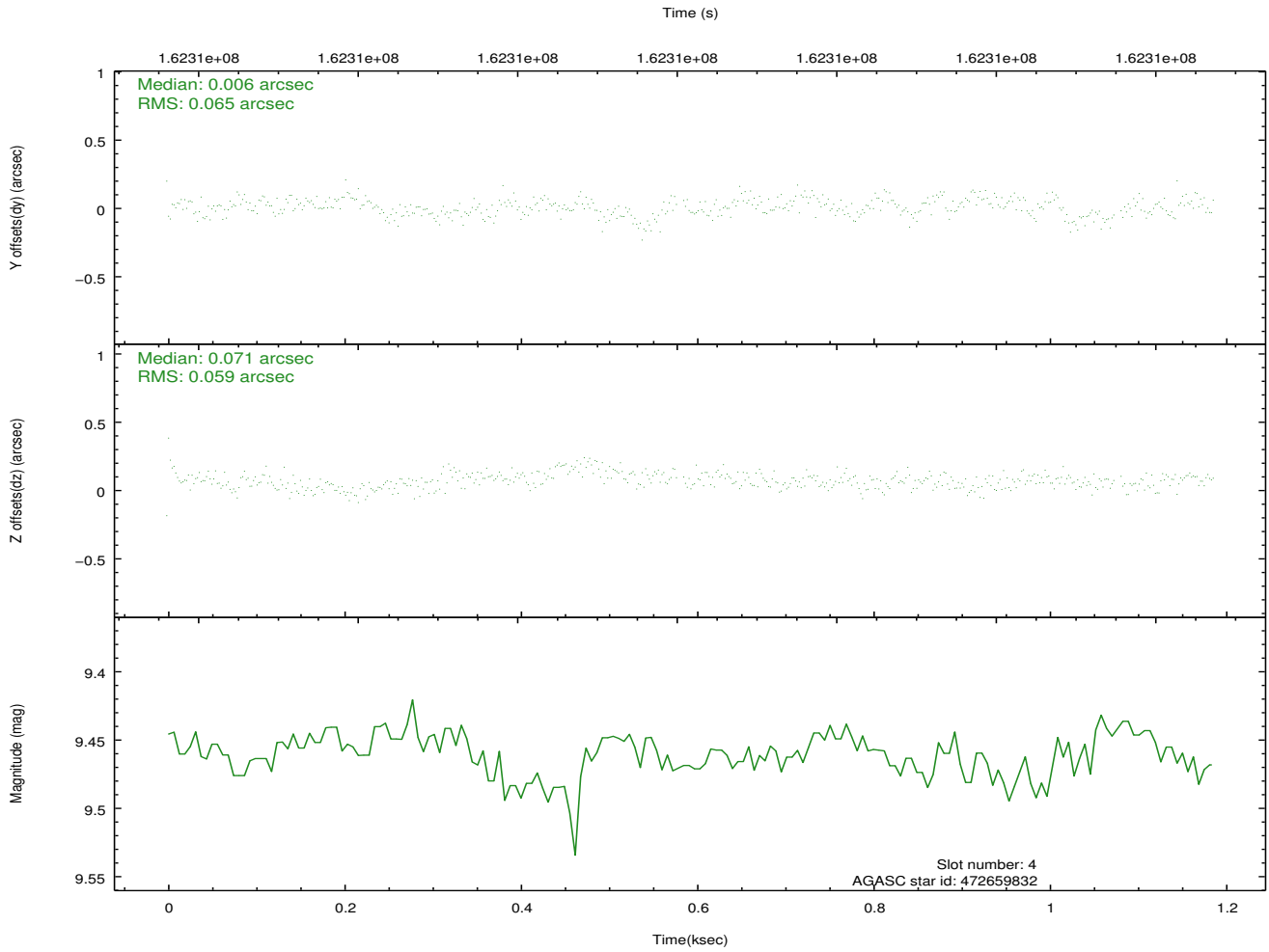
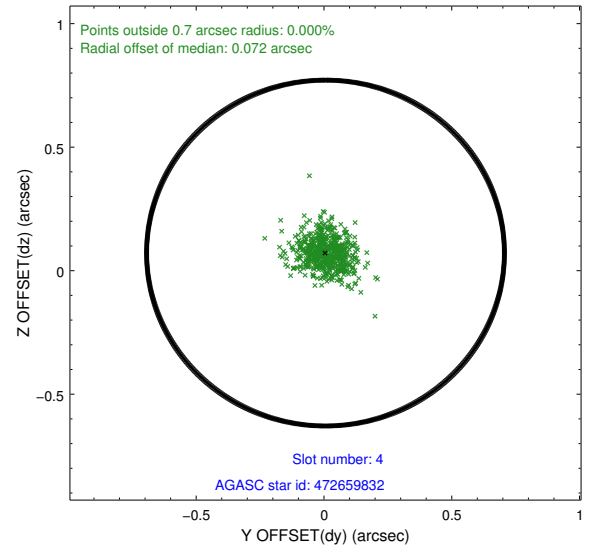
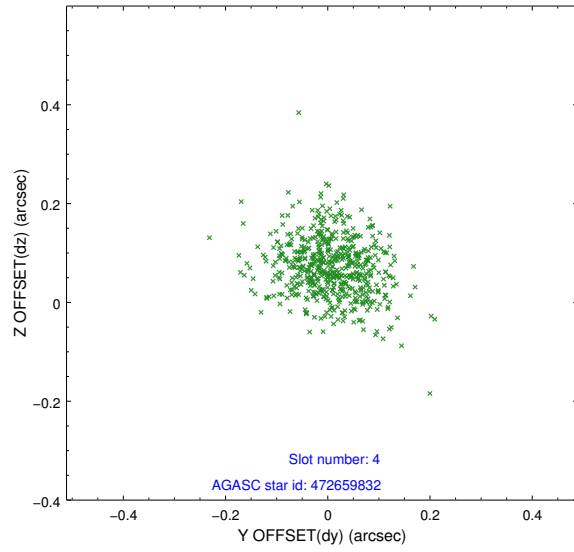
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.98 | 290 | 0.024 | 0.059 | 0.007 | 0.015 | 0.000000 | 0.000000 | -758.57 | -1296.46 |
| 1 | FID | HRC-I-2 | 7.01 | 290 | 0.078 | -0.075 | 0.006 | 0.011 | 0.000000 | 0.000000 | 851.50 | -1302.63 |
| 2 | FID | HRC-I-3 | 7.06 | 290 | 0.017 | -0.073 | 0.007 | 0.021 | 0.000000 | 0.000000 | -1184.14 | 1003.48 |
| 3 | GUIDE | 472655152 | 9.43 | 580 | 0.158 | 0.019 | 0.094 | 0.147 | 332.504239 | 45.862991 | 1054.58 | 429.91 |
| 4 | GUIDE | 472659832 | 9.46 | 574 | 0.006 | 0.071 | 0.092 | 0.158 | 332.780399 | 46.098139 | 1799.11 | 1231.98 |
| 5 | GUIDE | 472527720 | 6.99 | 580 | -0.055 | -0.067 | 0.064 | 0.115 | 331.460205 | 45.112509 | -1763.51 | -2074.96 |
| 6 | GUIDE | 472533912 | 9.18 | 580 | -0.031 | -0.079 | 0.108 | 0.181 | 331.791136 | 46.368695 | -597.89 | 2365.68 |
| 7 | GUIDE | 472654568 | 9.43 | 579 | -0.081 | 0.050 | 0.108 | 0.173 | 332.194449 | 45.063576 | 80.75 | -2385.21 |

2.4 Star Slots

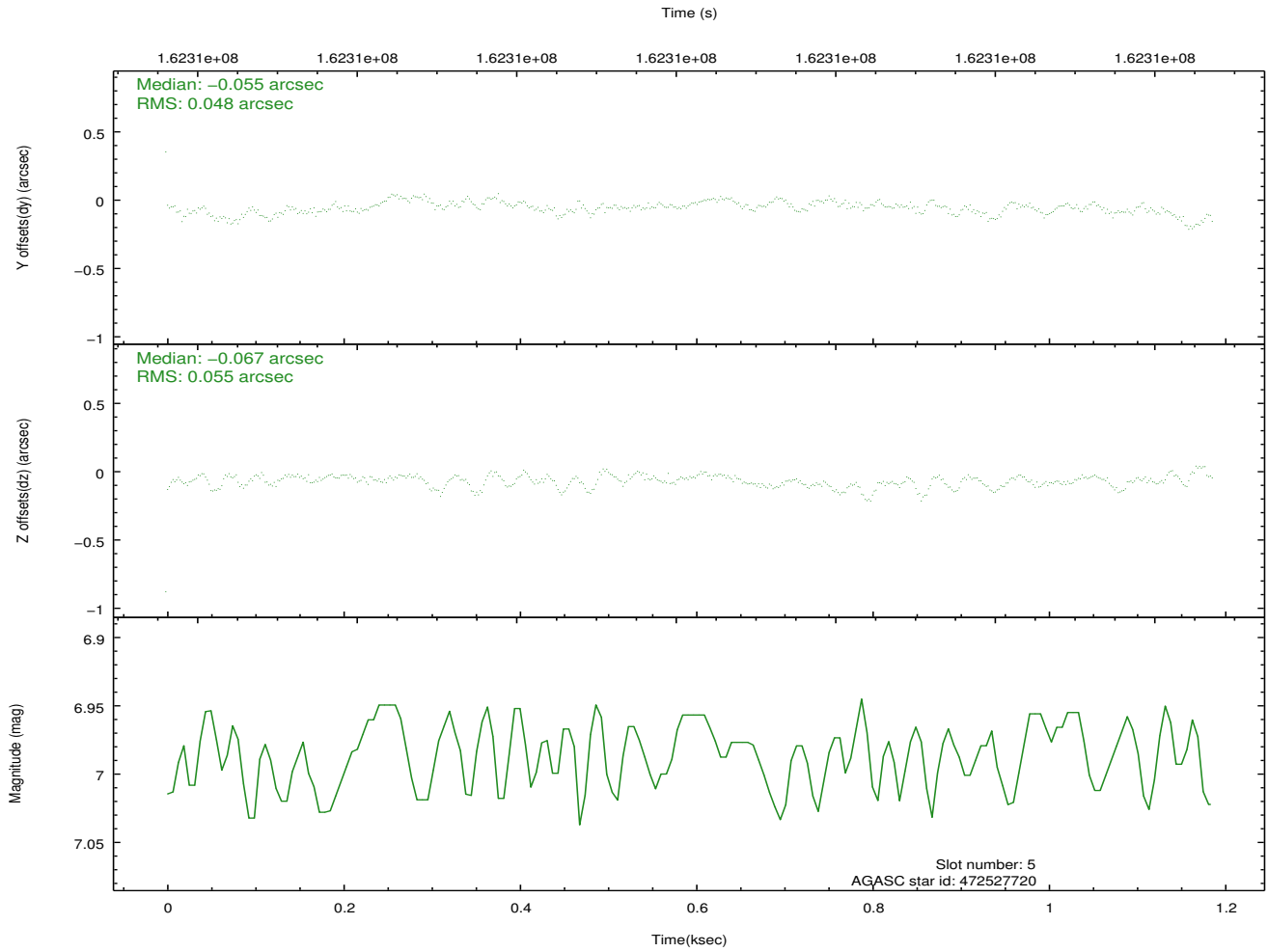
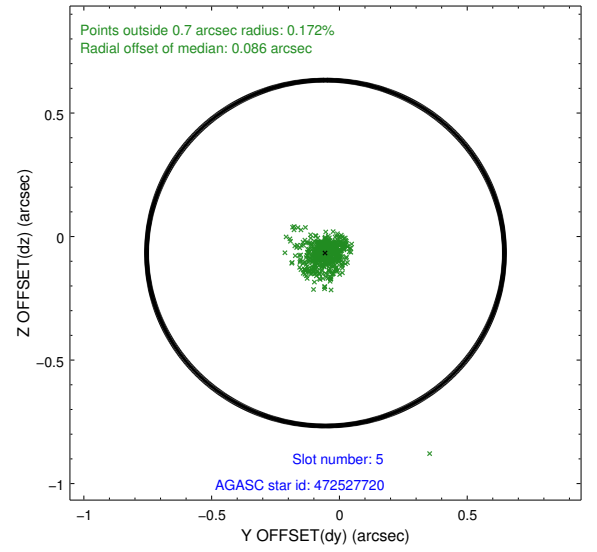
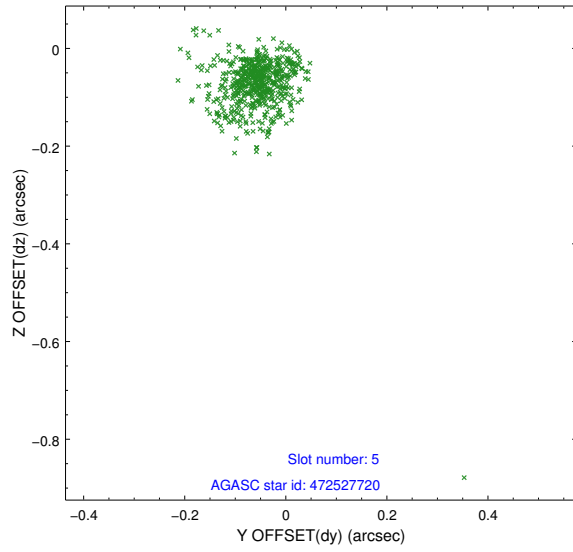
2.4.1 Slot 3



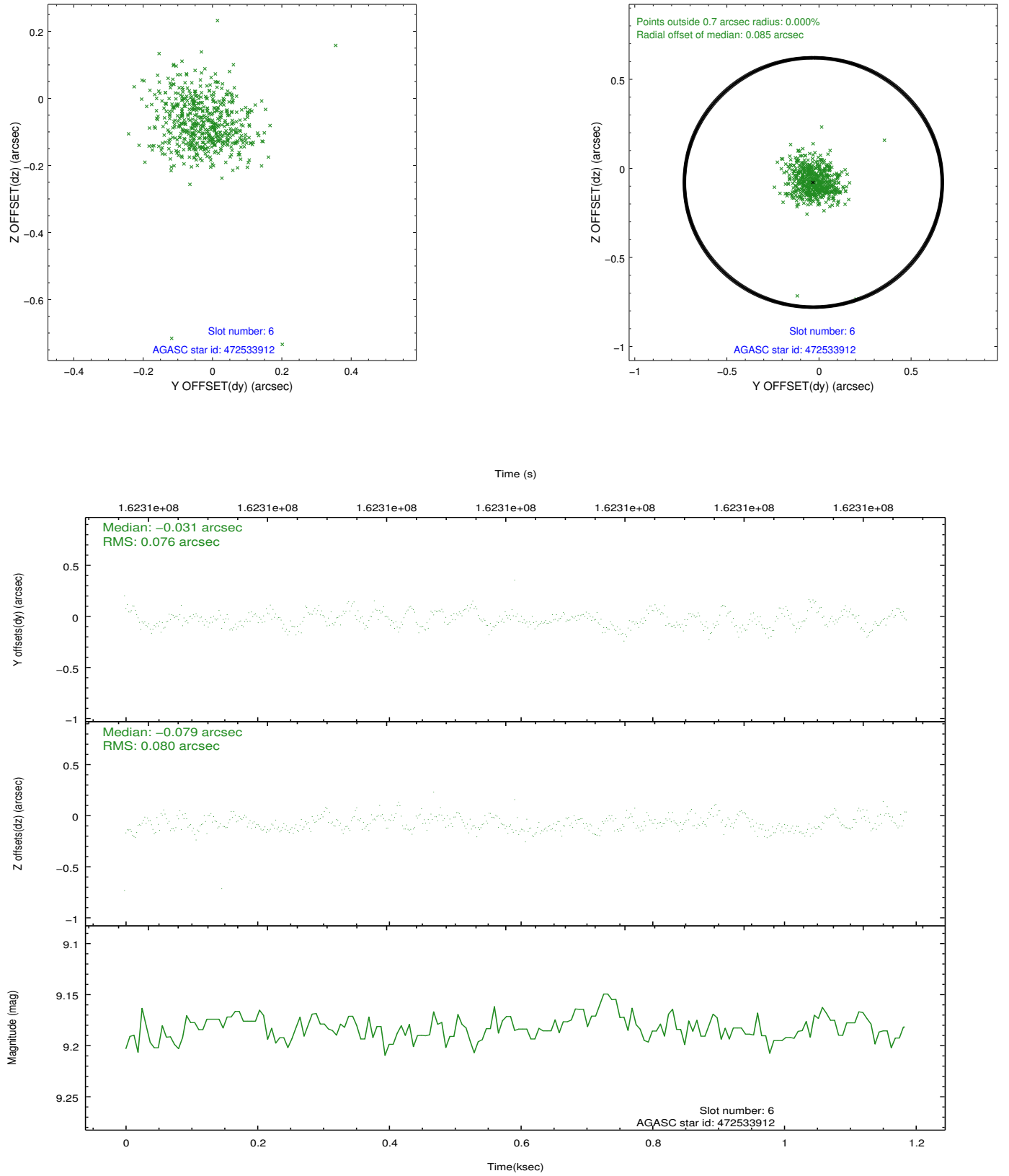
2.4.2 Slot 4



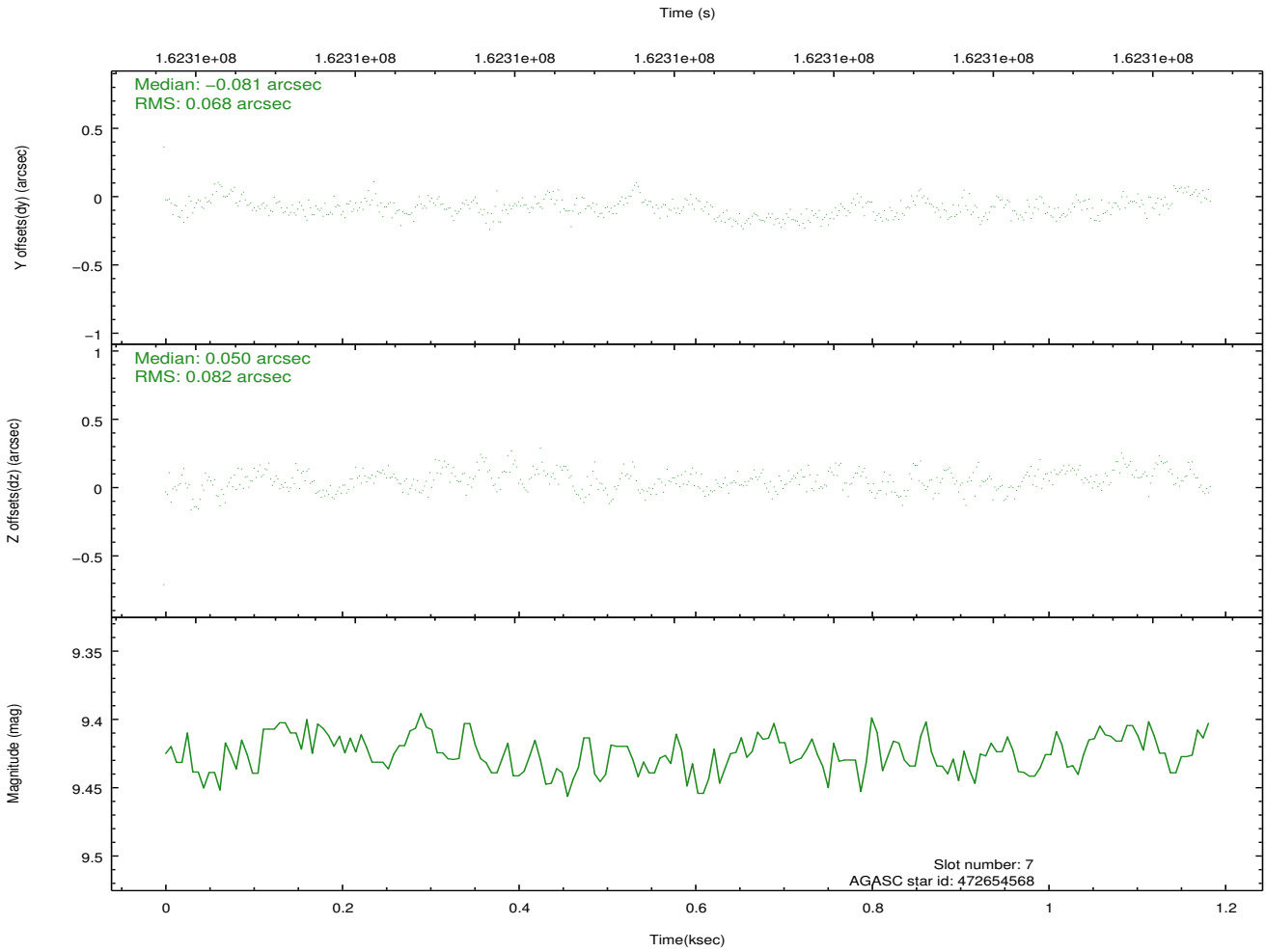
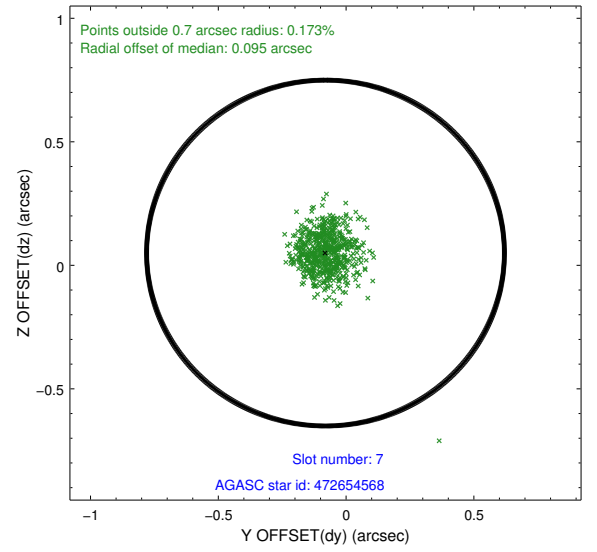
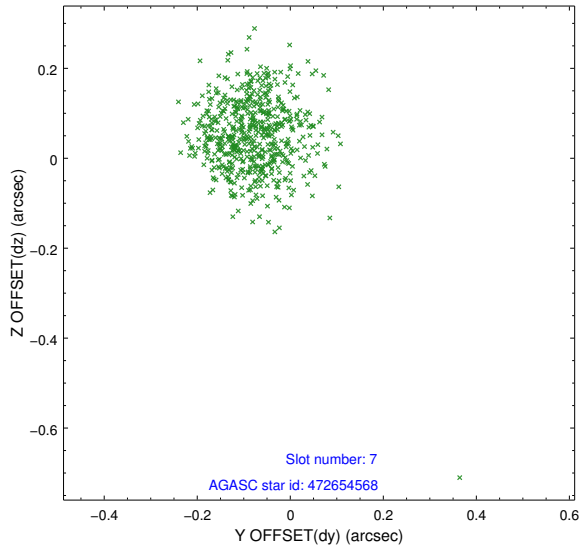
2.4.3 Slot 5



2.4.4 Slot 6

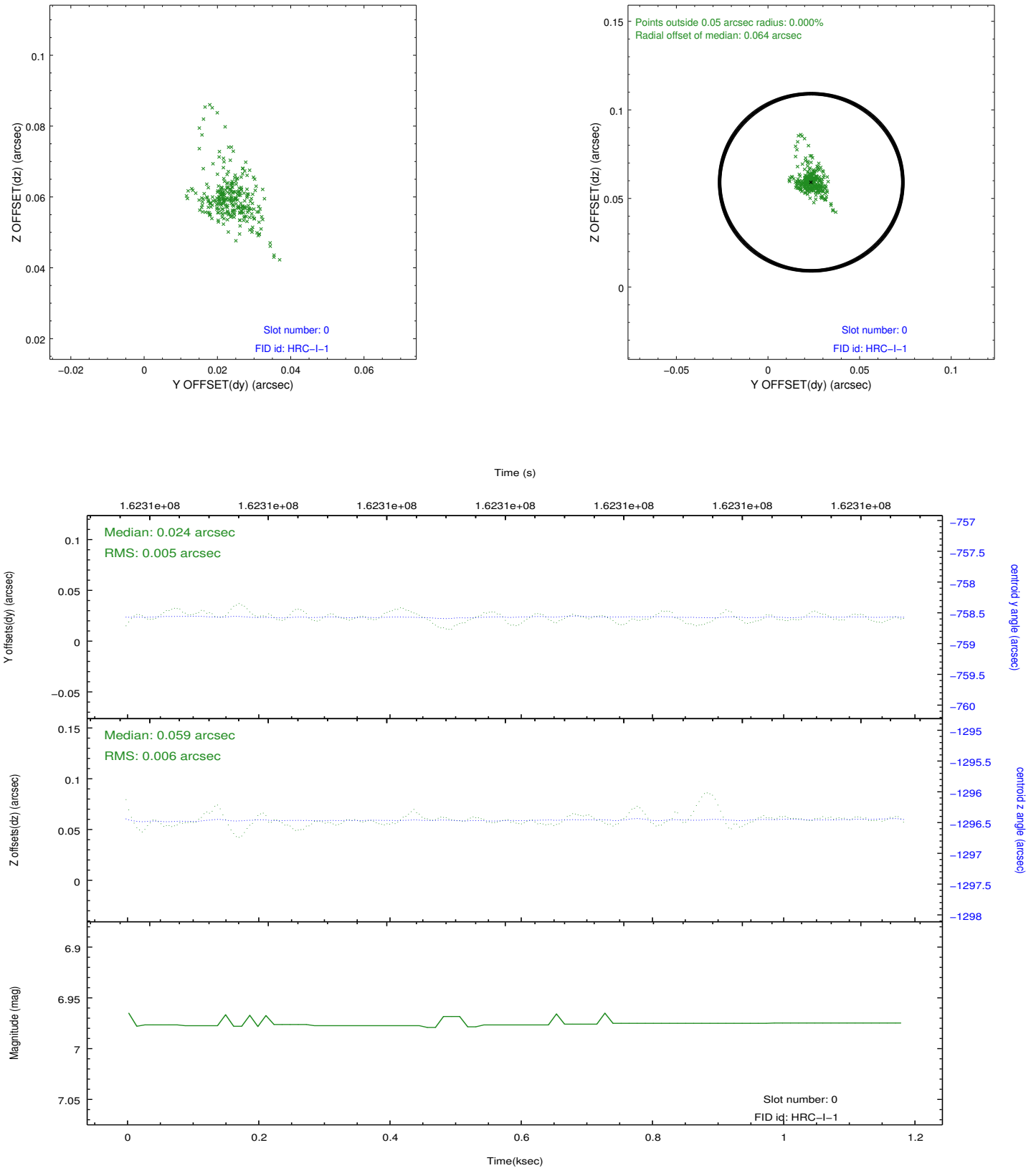


2.4.5 Slot 7

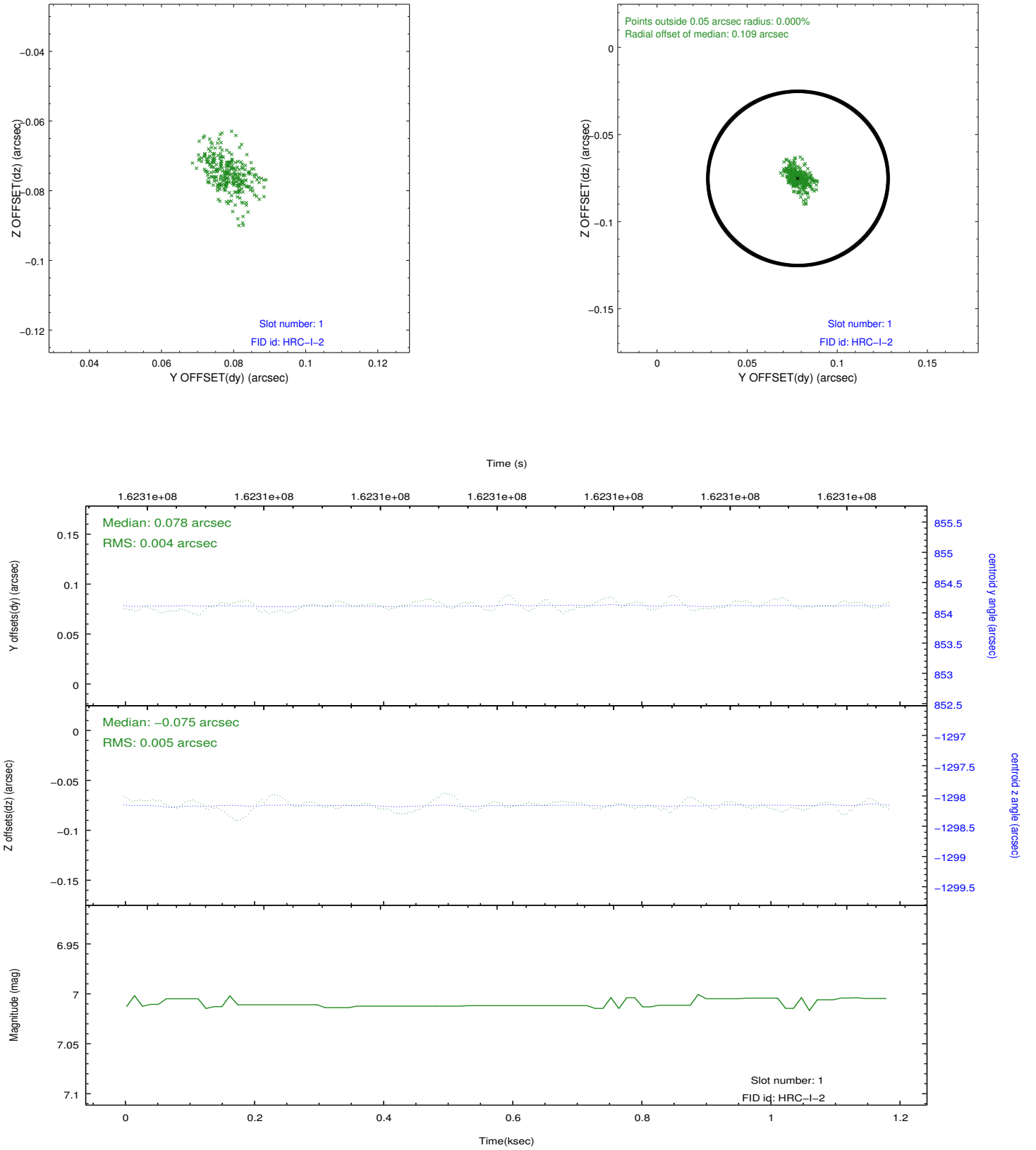


2.5 FID Slots

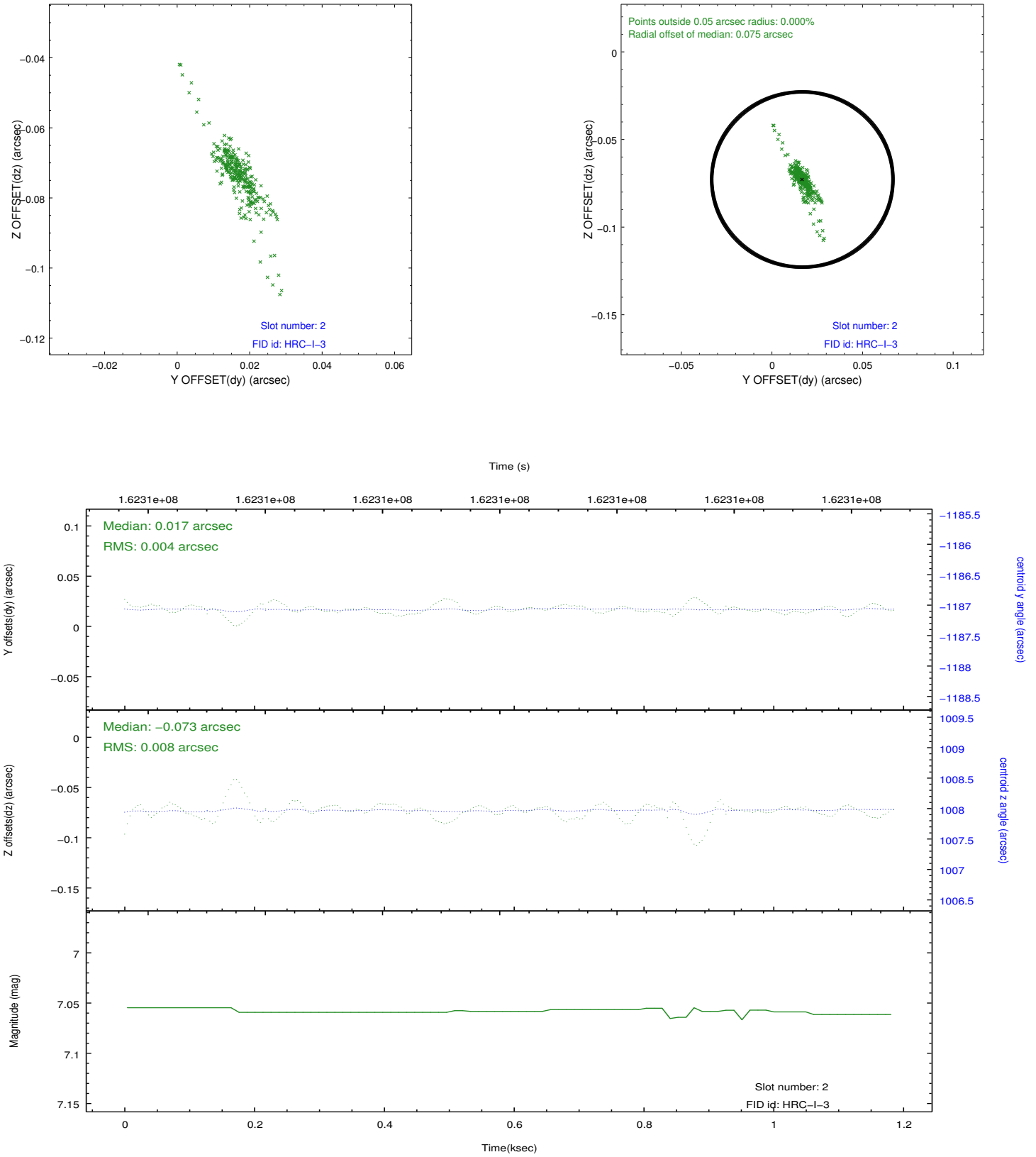
2.5.1 Slot 0



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) | 2012.11.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.186 |

A.2 Comments

Window constraint met.