

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1567 - L2 Version 5
Chandra X-Ray Center

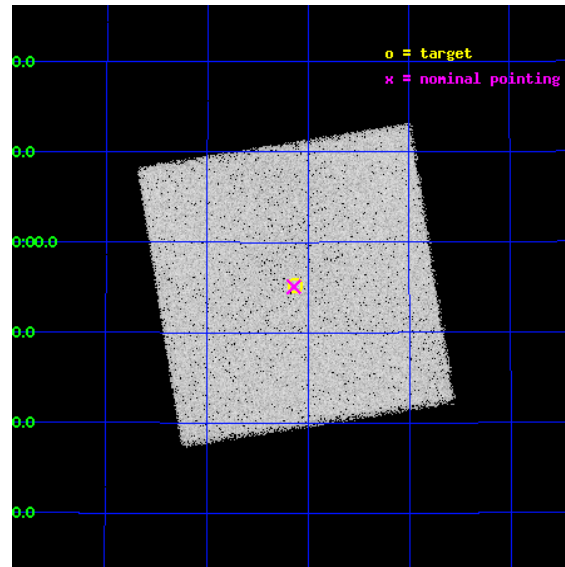
L2 Processing Date : Sep 7 2012

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1 Front

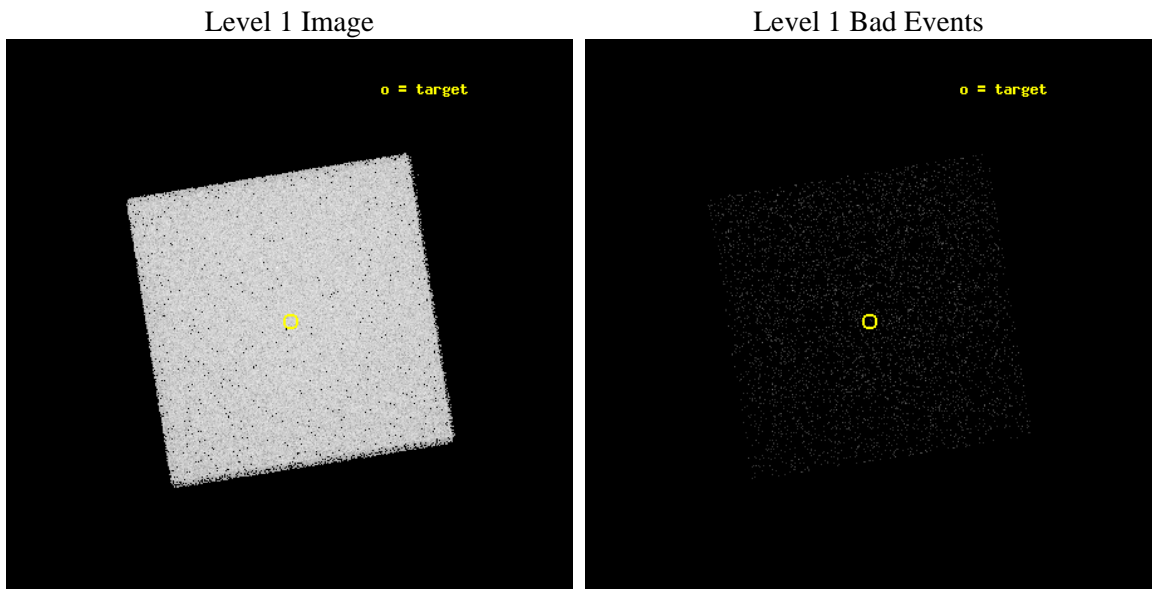
| | | |
|----------|-----------------------|---------------------------------------|
| seq_num | 600124 | Sequence number |
| obs_id | 1567 | Observation id |
| title | HRC MONITORING OF M31 | Proposal title |
| observer | Dr. Stephen Murray | Principal investigator |
| object | M31 - SOUTH 1 | Source name |
| ra_targ | 10.533333 | Observer's specified target RA [deg] |
| dec_targ | 40.921389 | Observer's specified target Dec [deg] |
| ra_nom | 10.535056431825 | Nominal RA [deg] |
| dec_nom | 40.918028241071 | Nominal Dec [deg] |
| roll_nom | 305.89615576043 | Nominal Roll [deg] |
| revision | 5 | Processing version of data |
| ontime | 1200.5312962532 | [s] |
| livetime | 636.83786132151 | Ontime multiplied by DTCOR |
| l2events | 177305 | 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 | 1200.5312962532 | [s] |
| caldbver | 4.5.1.1 | | l1events | 278021 | Number of level 1 events |
| date | 2012-09-07T04:45:21 | Date and time of file creation | | | |
| revision | 5 | Processing version of data | | | |

2.1.3 Events

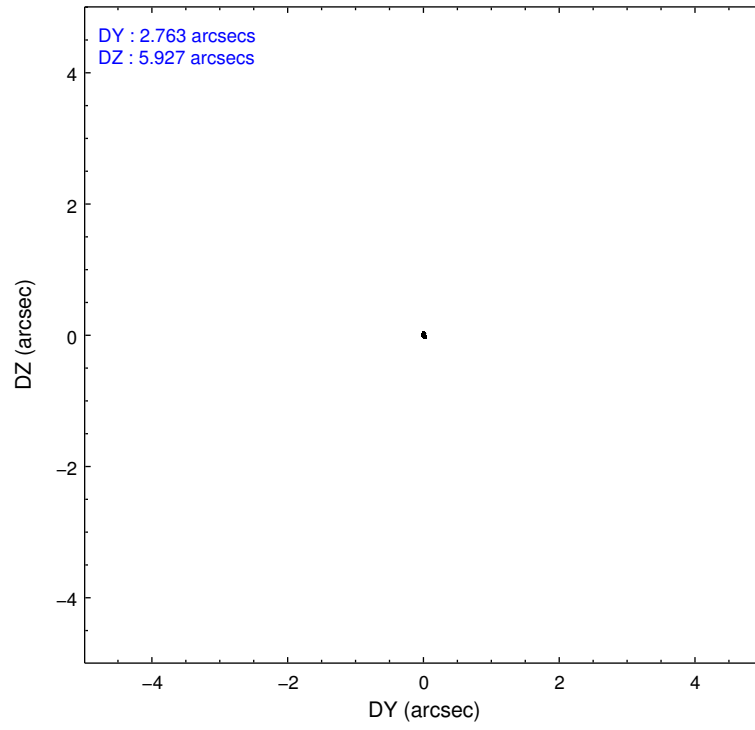
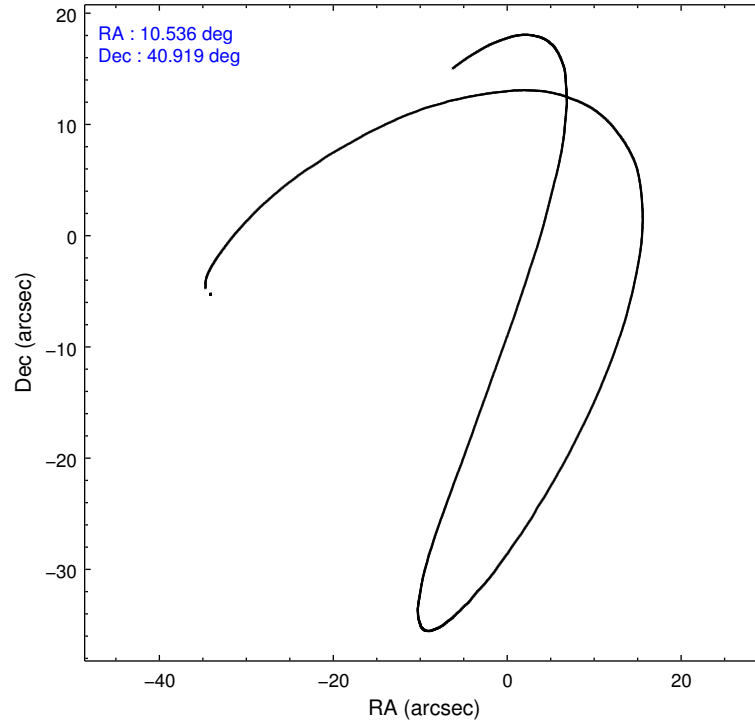
Level 1 Events

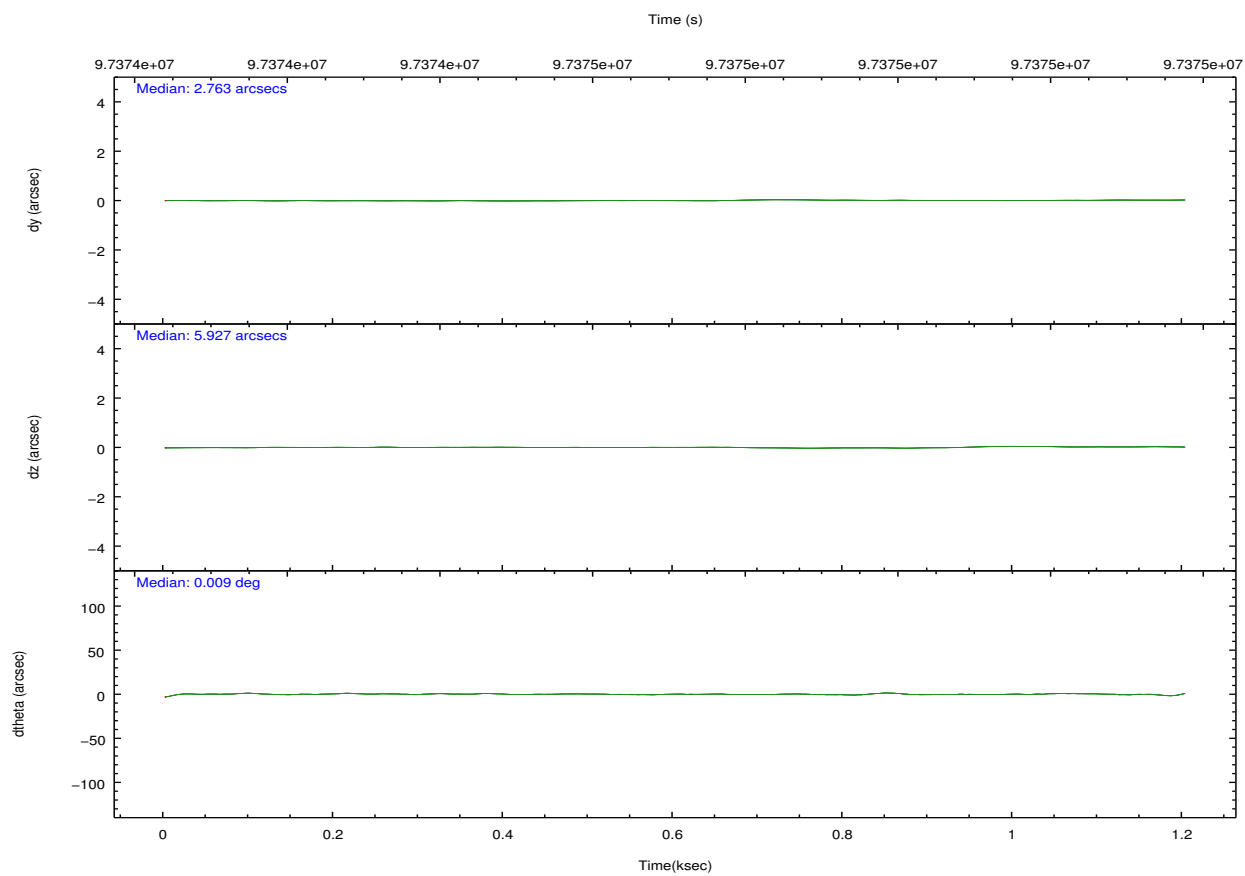
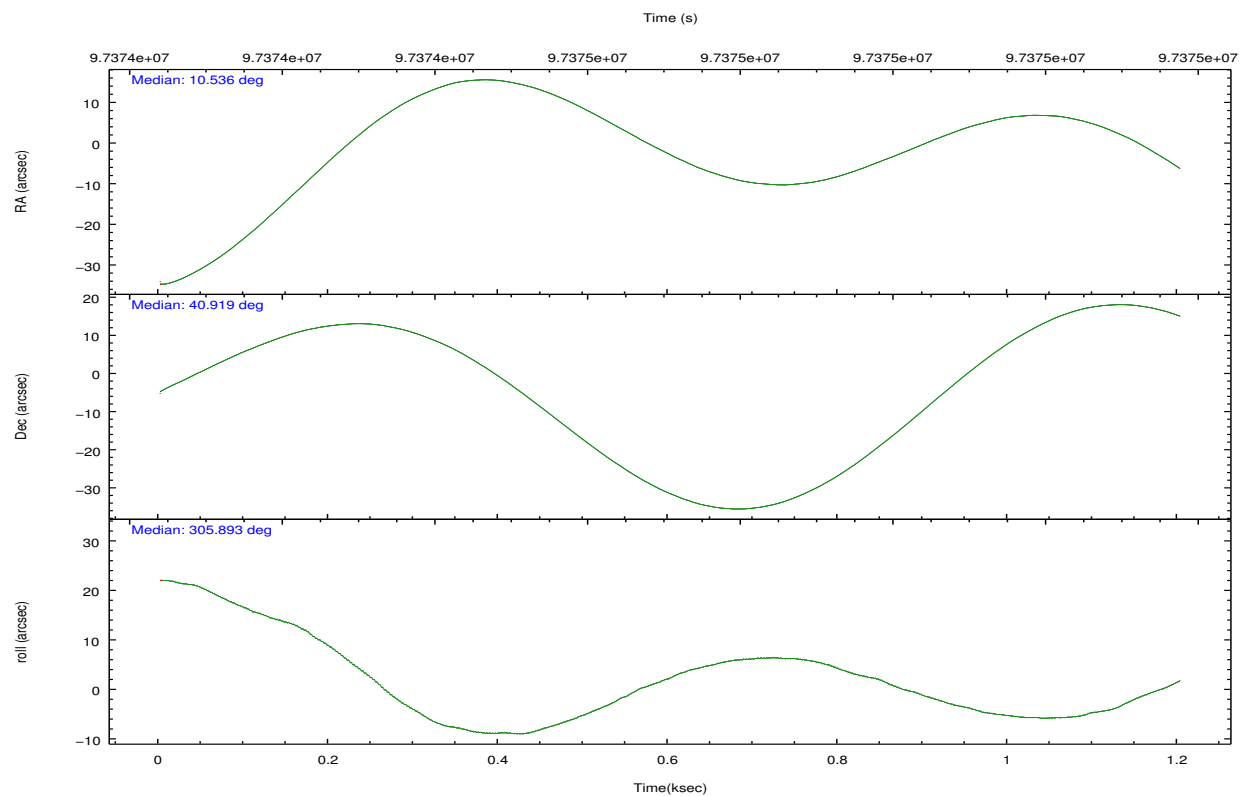
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 278021 |
| rejected events | 56820 |
| rejected % | 20% |

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 | 10.501522 | 10.53505643182543 | | | |
| [deg] Pointing Dec | 40.927826 | 40.91802824107132 | | | |
| [deg] Pointing Roll | 306.013614 | 305.8961557604304 | | | |
| [s] Window start time (MET) | 97416064.184000 | 97416064.184000 | | | |
| [s] Window stop time (MET) | 98496064.184000 | 98496064.184000 | | | |
| [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) | 97374309.184000 | 97373933.279195 | | | |
| Observation start date | 2001-02-01T00:24:05 | 2001-02-01T00:18:53 | | | |
| [s] Observation end time (MET) | 97375309.184000 | 97375443.10425299 | | | |
| Observation end date | 2001-02-01T00:40:45 | 2001-02-01T00:44:03 | | | |

2.3 Aspect



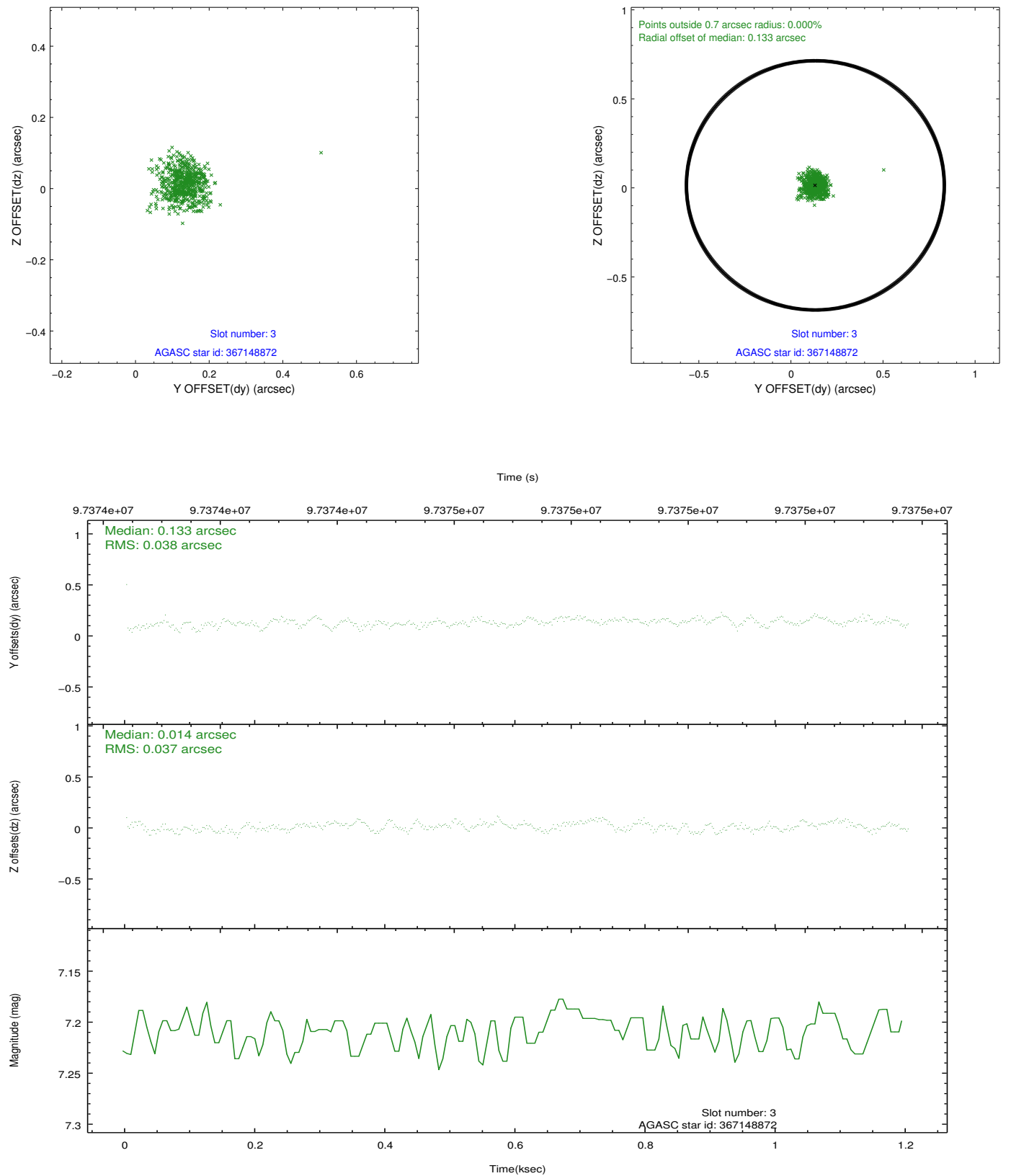


Slot Statistics

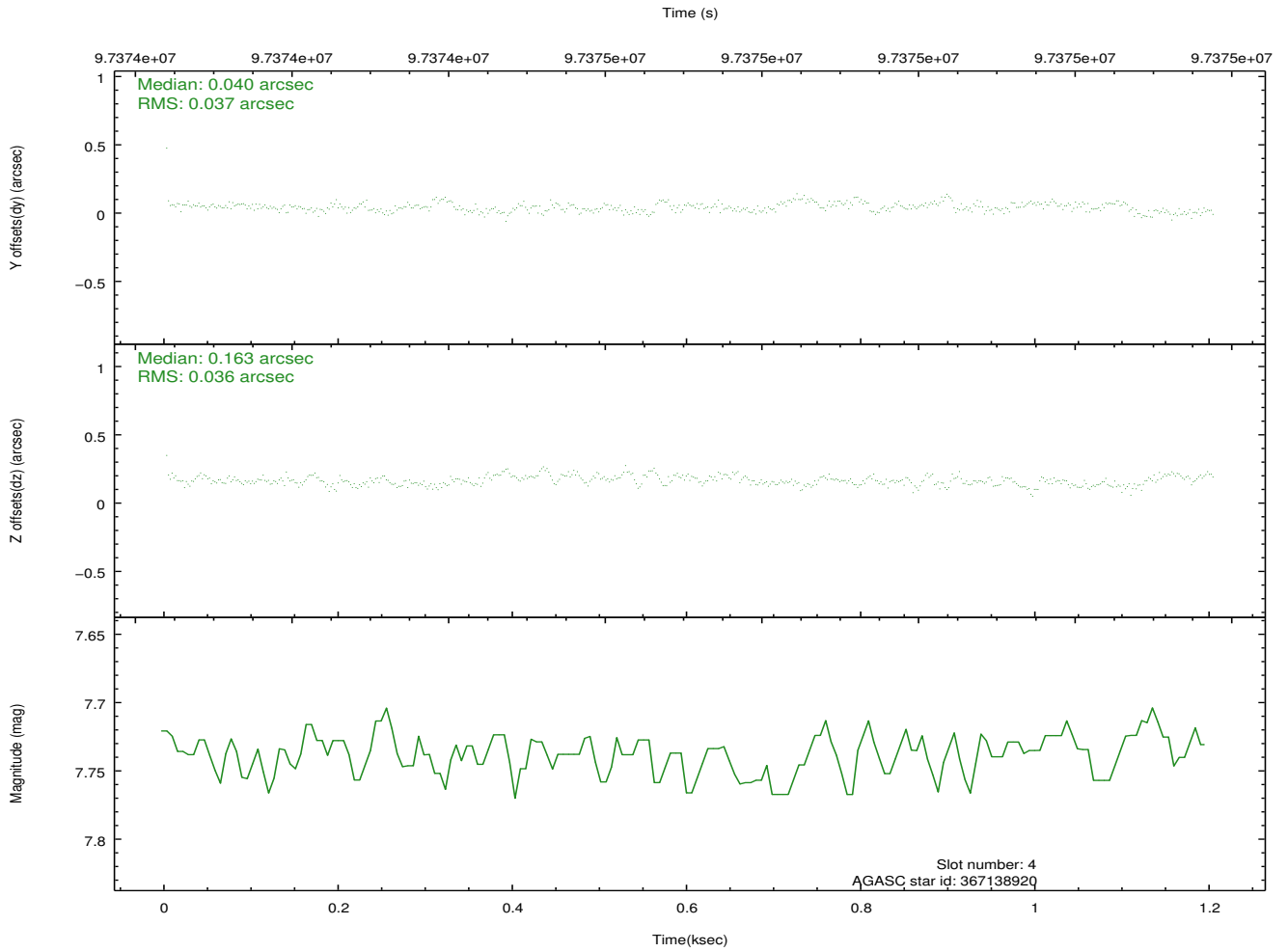
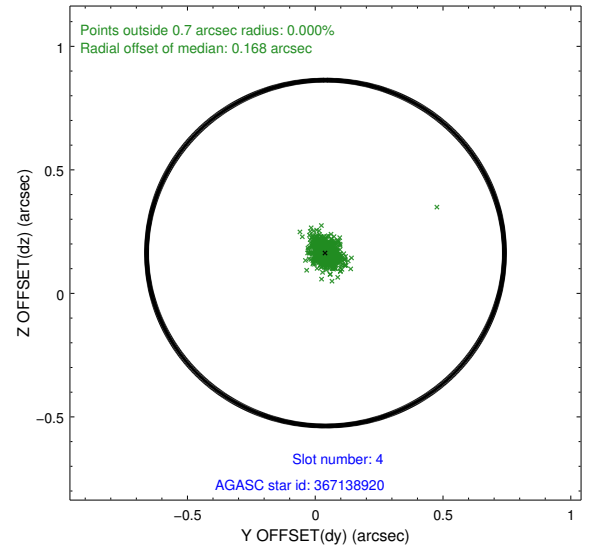
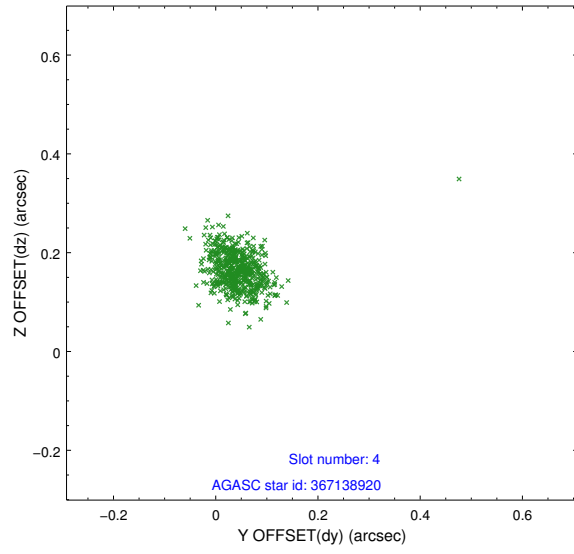
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.95 | 294 | 0.038 | 0.027 | 0.007 | 0.011 | 0.000000 | 0.000000 | -758.20 | -1293.76 |
| 1 | FID | HRC-I-3 | 7.03 | 294 | 0.031 | -0.075 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1189.27 | 1006.30 |
| 2 | FID | HRC-I-4 | 6.98 | 294 | 0.045 | -0.041 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1280.56 | 1011.75 |
| 3 | GUIDE | 367148872 | 7.21 | 587 | 0.133 | 0.014 | 0.055 | 0.087 | 10.505940 | 40.688258 | 705.54 | -500.88 |
| 4 | GUIDE | 367138920 | 7.74 | 587 | 0.040 | 0.163 | 0.051 | 0.084 | 11.513485 | 40.808909 | 1956.60 | 1983.99 |
| 5 | GUIDE | 367139768 | 7.98 | 587 | 0.016 | 0.013 | 0.051 | 0.085 | 11.069715 | 40.685175 | 1618.50 | 743.92 |
| 6 | GUIDE | 367139648 | 8.21 | 587 | 0.072 | -0.050 | 0.048 | 0.080 | 11.021290 | 40.433909 | 2275.78 | 106.85 |
| 7 | GUIDE | 365431072 | 9.00 | 586 | -0.261 | -0.146 | 0.067 | 0.116 | 9.376278 | 41.092224 | -2285.40 | -2113.54 |

2.4 Star Slots

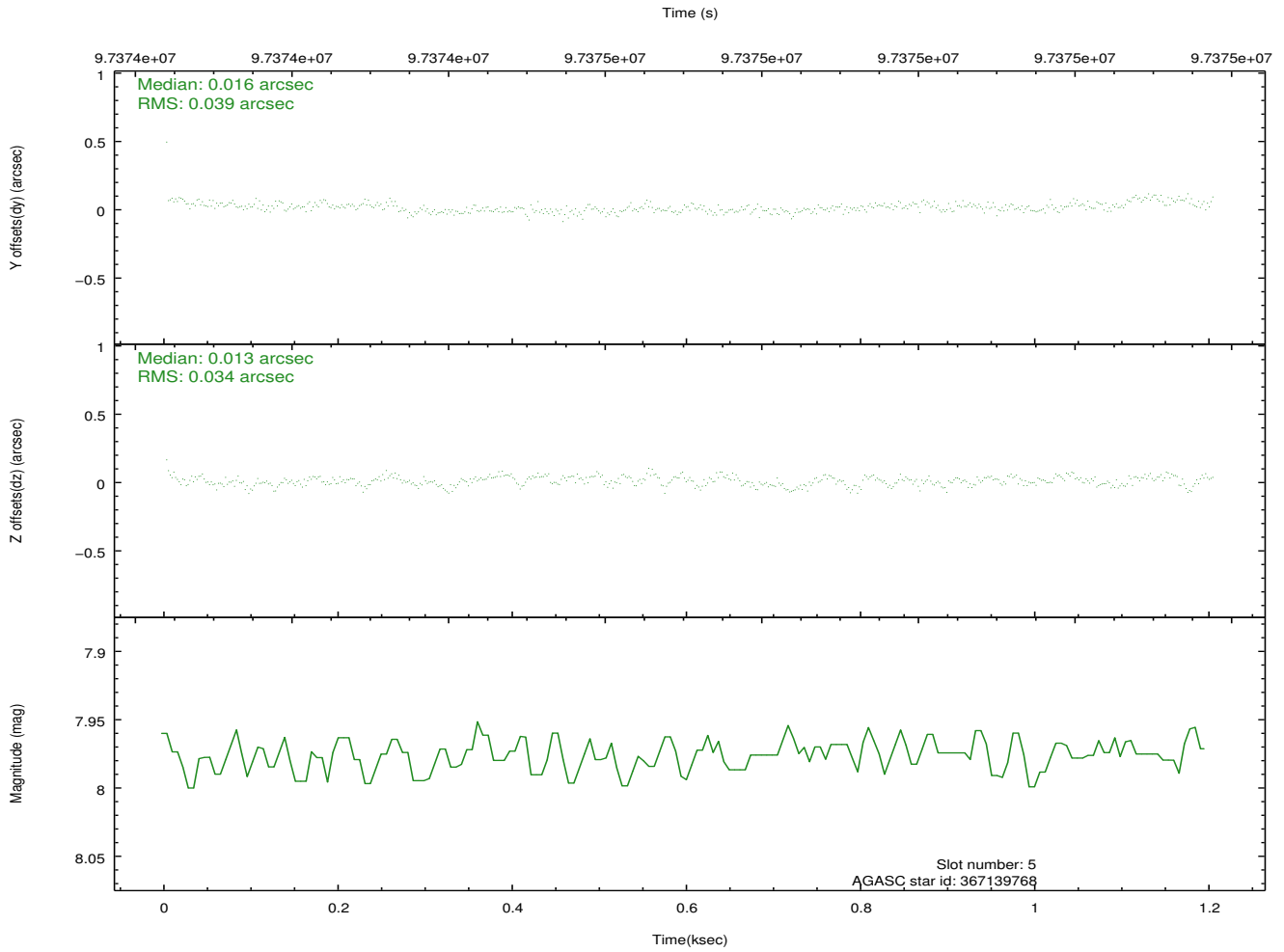
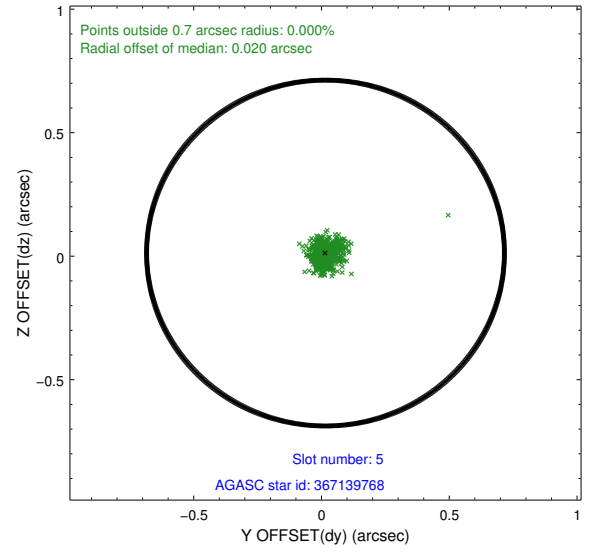
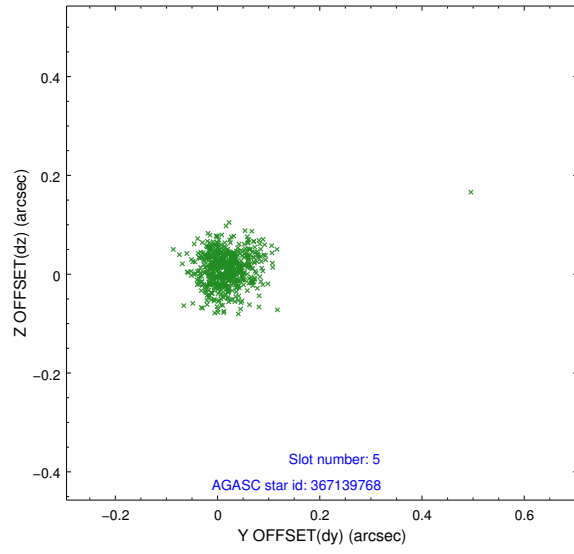
2.4.1 Slot 3



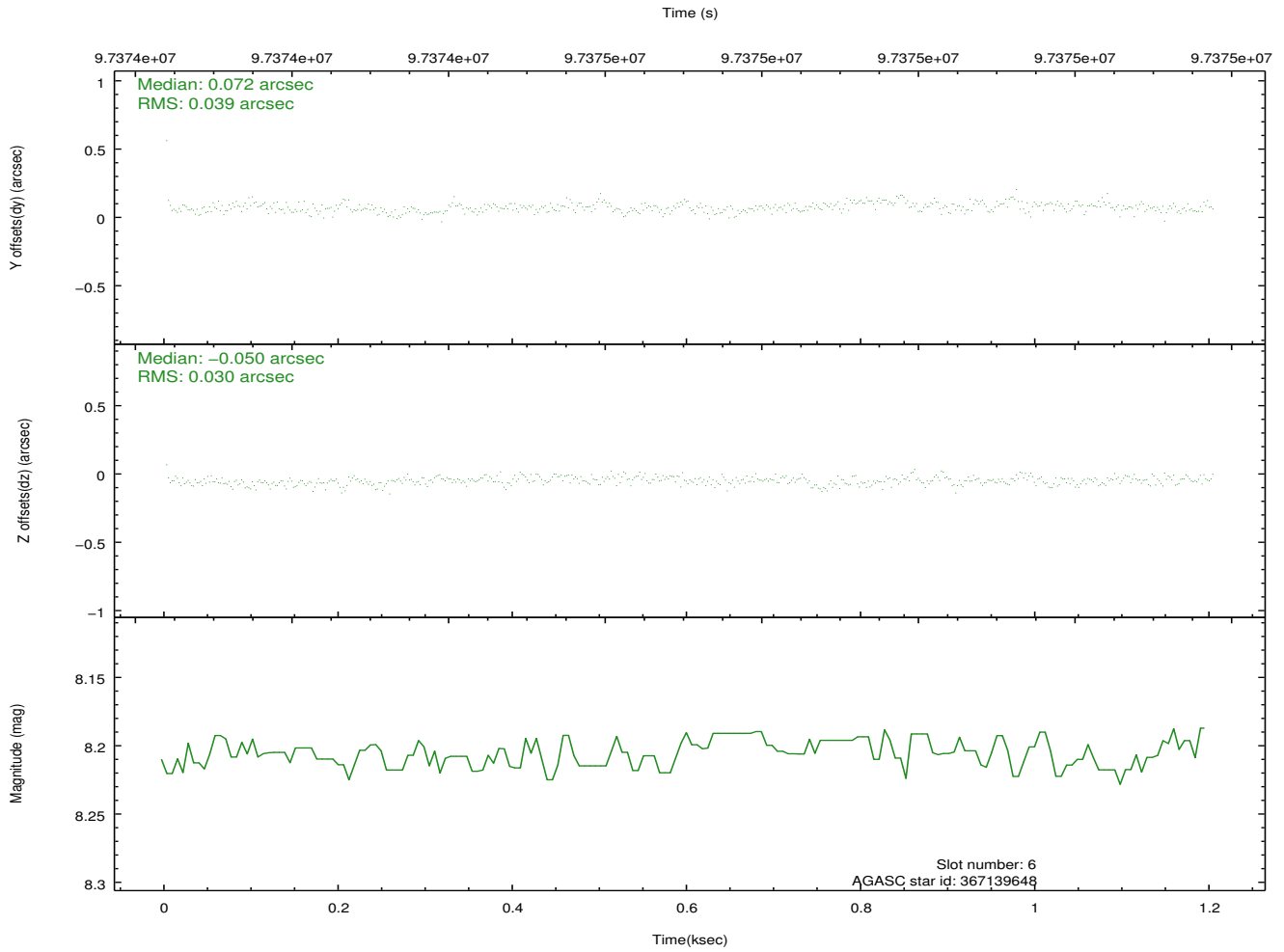
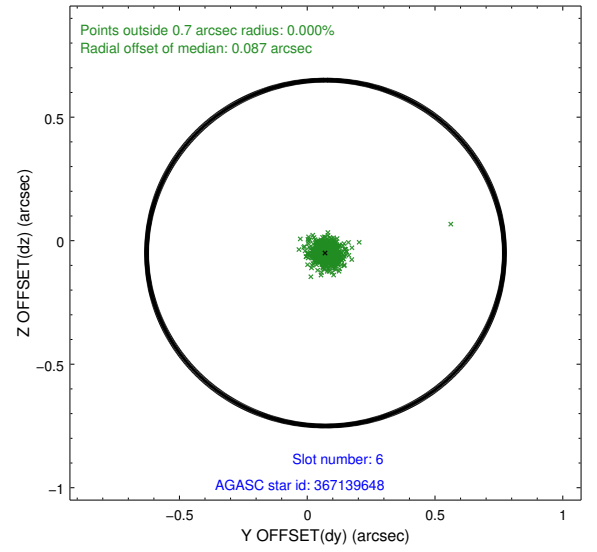
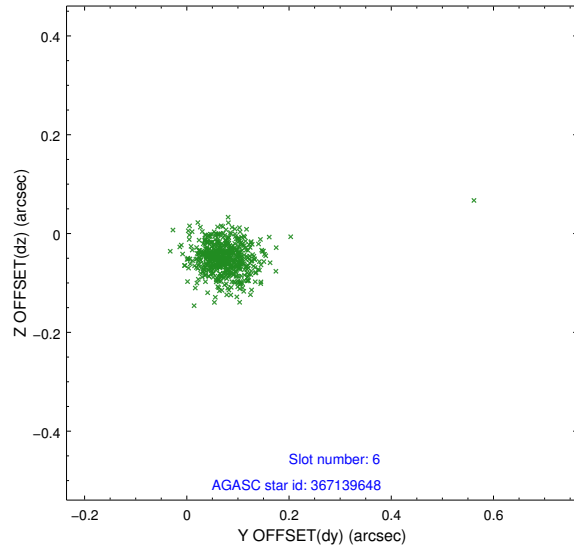
2.4.2 Slot 4



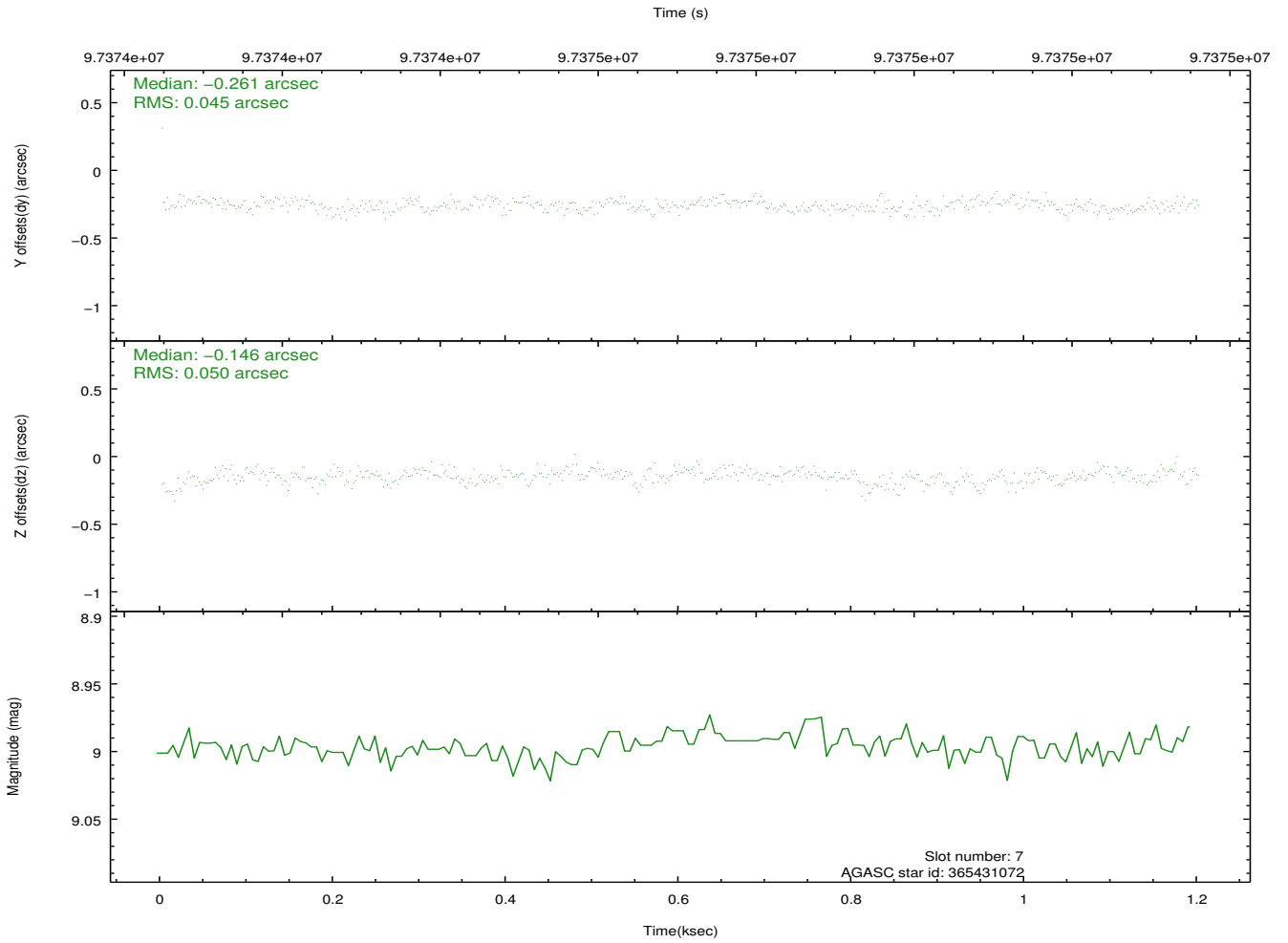
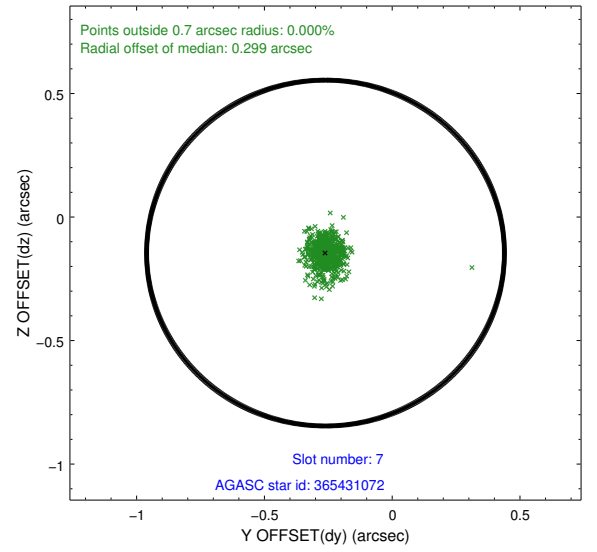
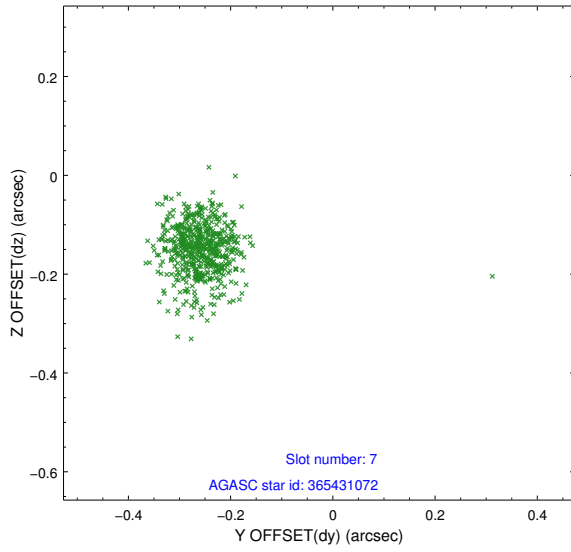
2.4.3 Slot 5



2.4.4 Slot 6

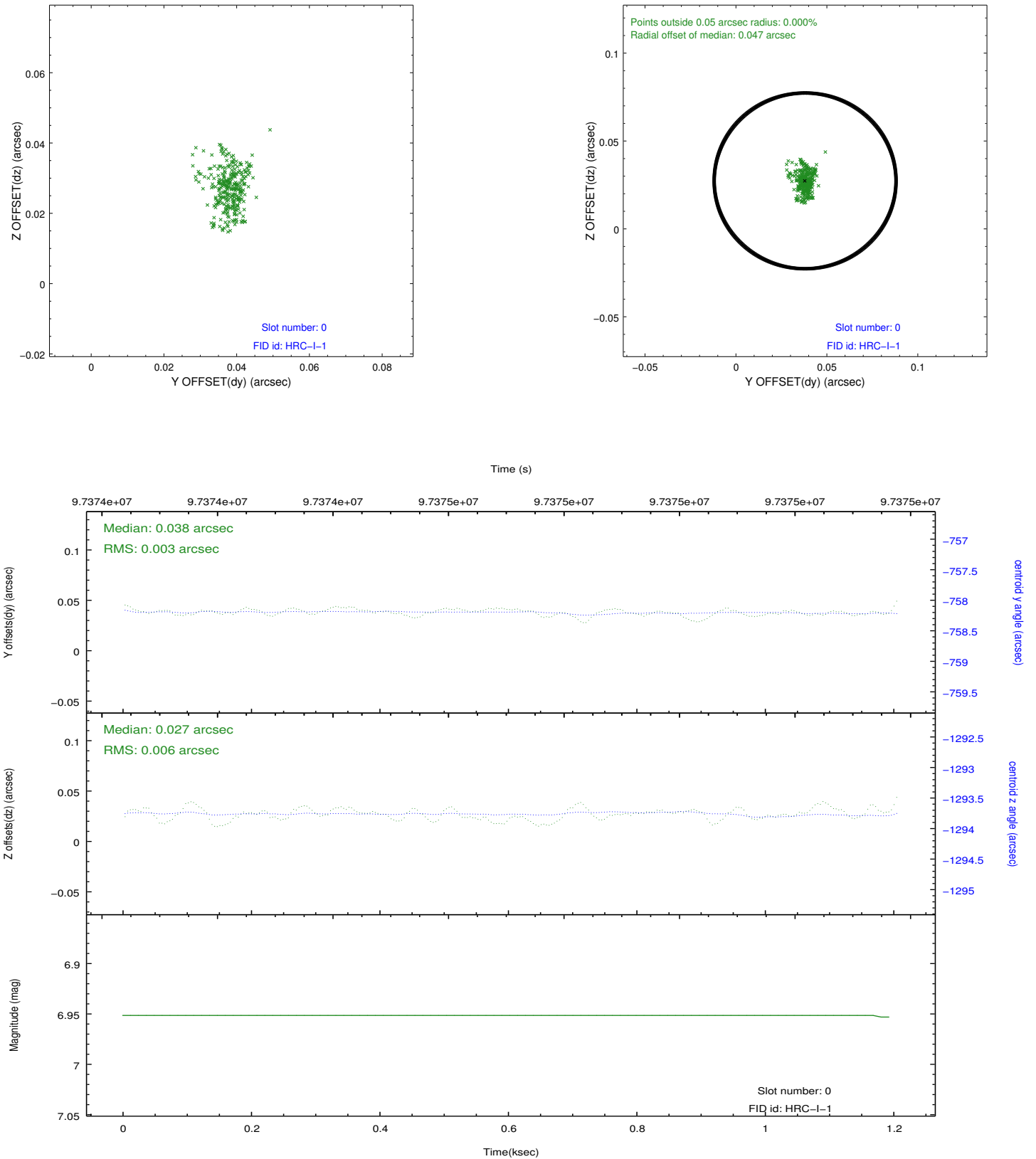


2.4.5 Slot 7

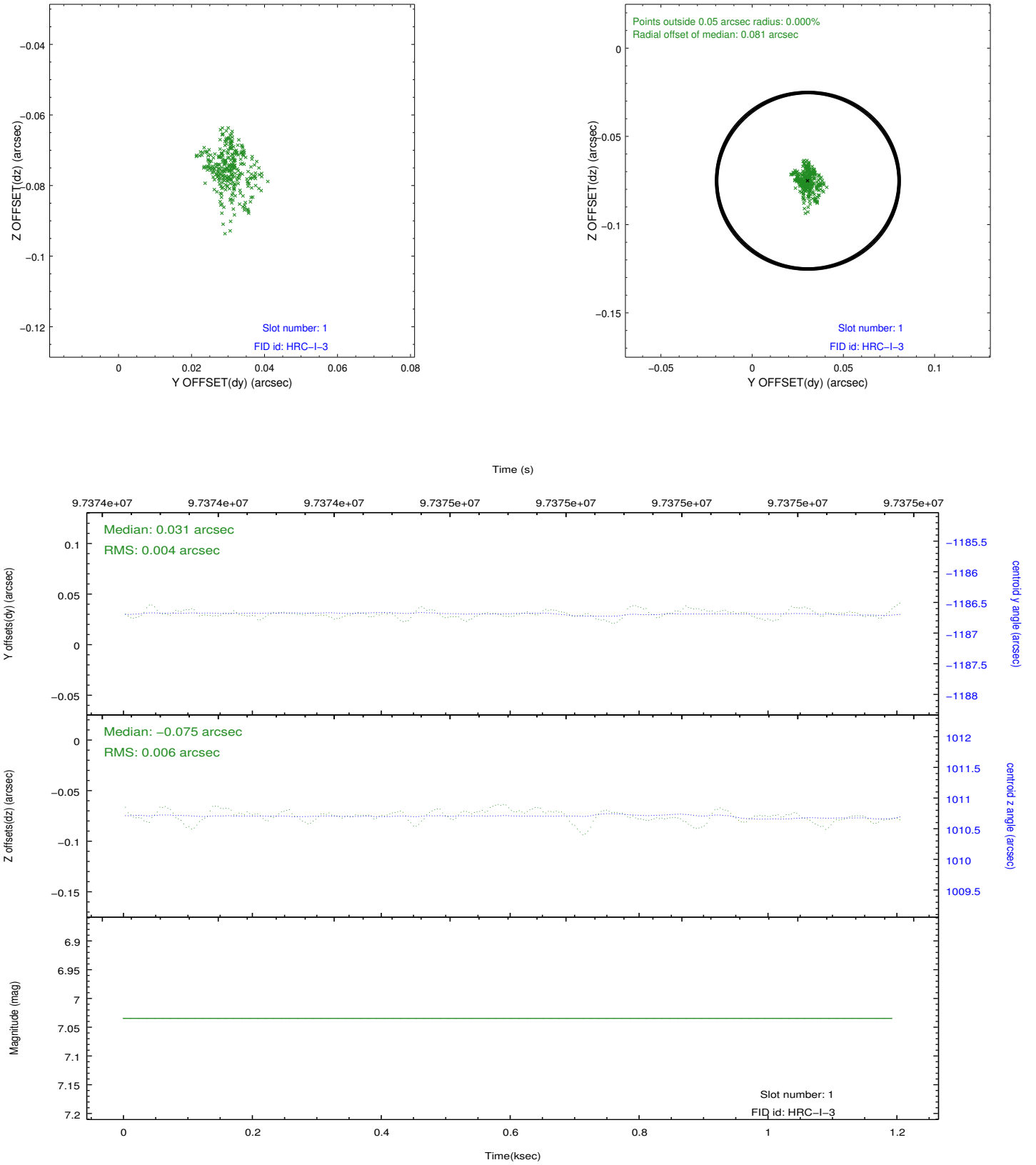


2.5 FID Slots

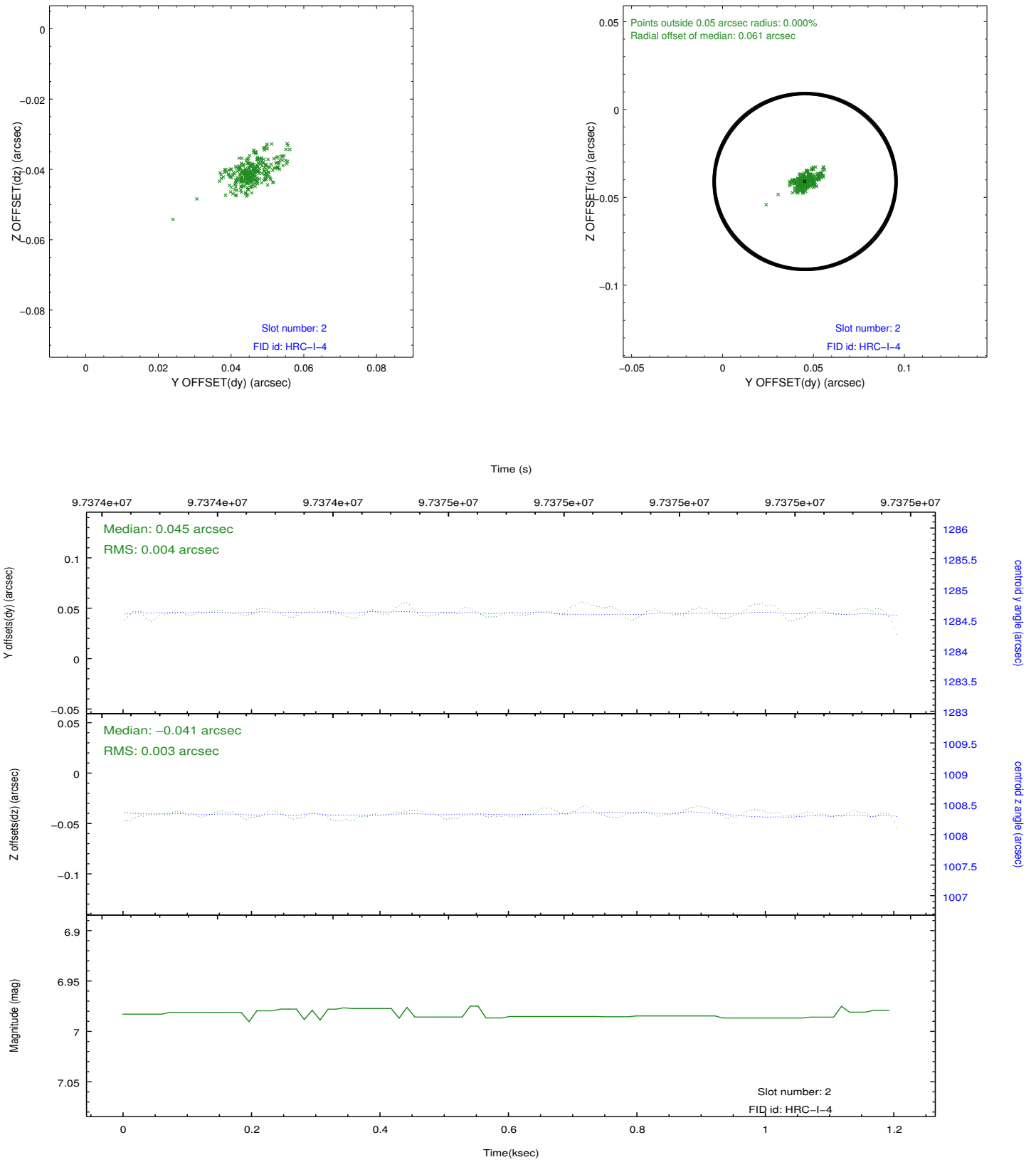
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.09.17 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.2 |

A.2 Comments

Window preference was not met.