

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 987 - L2 Version 4
Chandra X-Ray Center

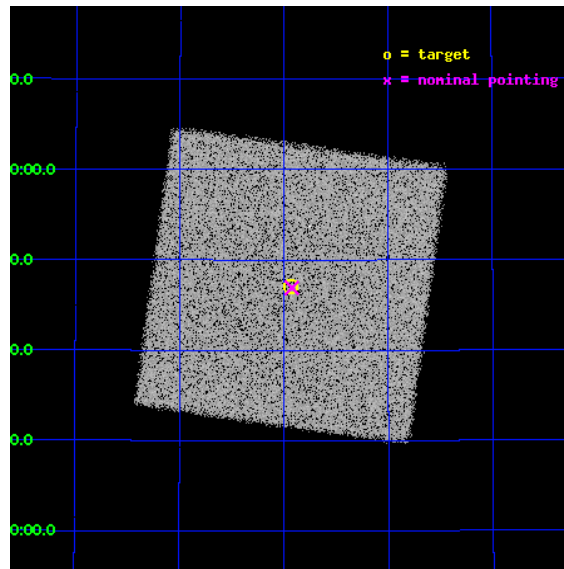
L2 Processing Date : Sep 22 2012

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1 Front

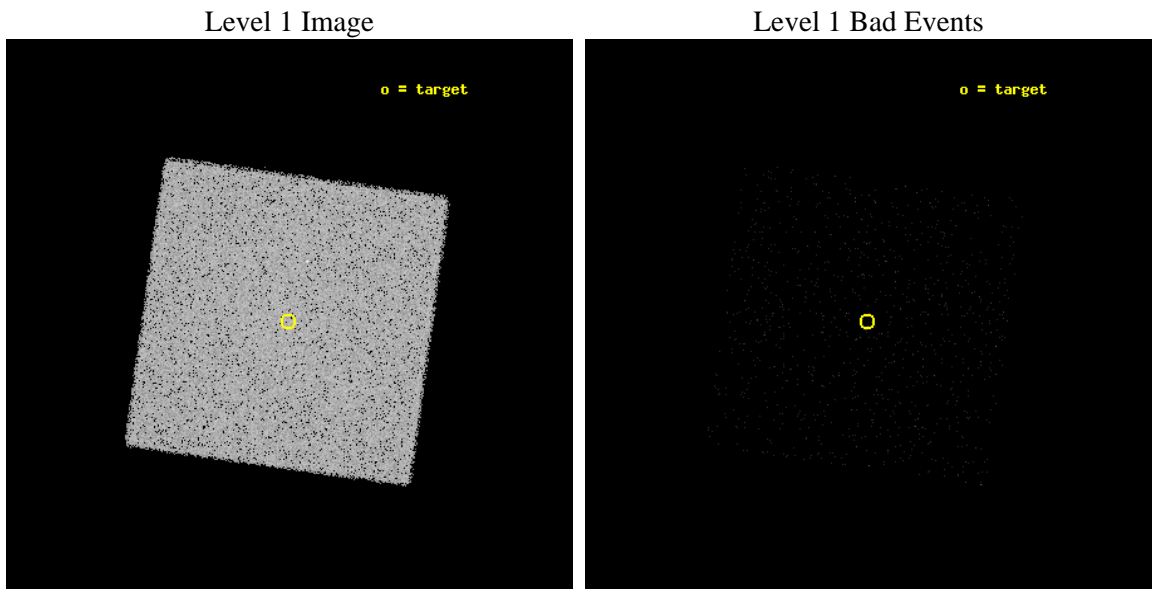
| | | |
|----------|--|---------------------------------------|
| seq_num | 290068 | Sequence number |
| obs_id | 987 | Observation id |
| title | CALIBRATION OBSERVATIONS OF VEGA TO MONITOR THE TRANSMISSION OF THE OPTICAL/UV FILTERS ON ACIS AND HRC | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | VEGA, HRC-I, AO2 | Source name |
| ra_targ | 279.234792 | Observer's specified target RA [deg] |
| dec_targ | 38.783778 | Observer's specified target Dec [deg] |
| ra_nom | 279.23086850061 | Nominal RA [deg] |
| dec_nom | 38.781866295712 | Nominal Dec [deg] |
| roll_nom | 232.99462841137 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 2395.6813444793 | [s] |
| livetime | 2378.9923329135 | Ontime multiplied by DTCOR |
| l2events | 97219 | 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 | 2500.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 2395.6813444793 | [s] |
| caldbver | 4.5.1.1 | | l1events | 179563 | Number of level 1 events |
| date | 2012-09-22T07:24:07 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

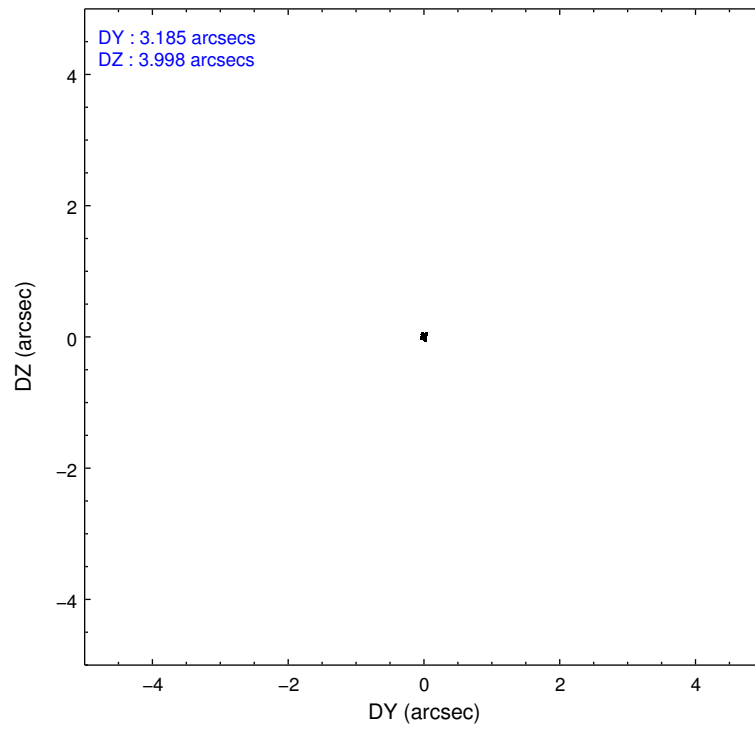
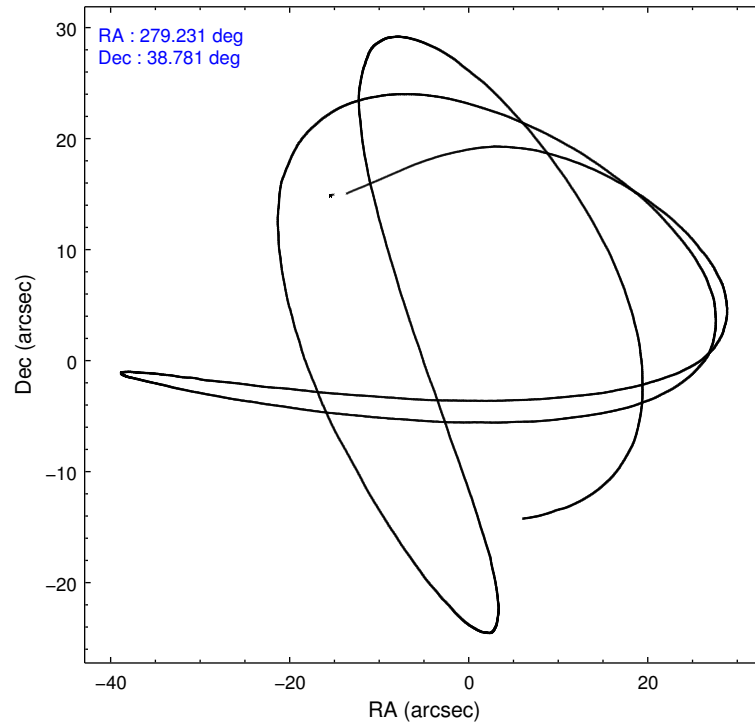
Level 1 Events

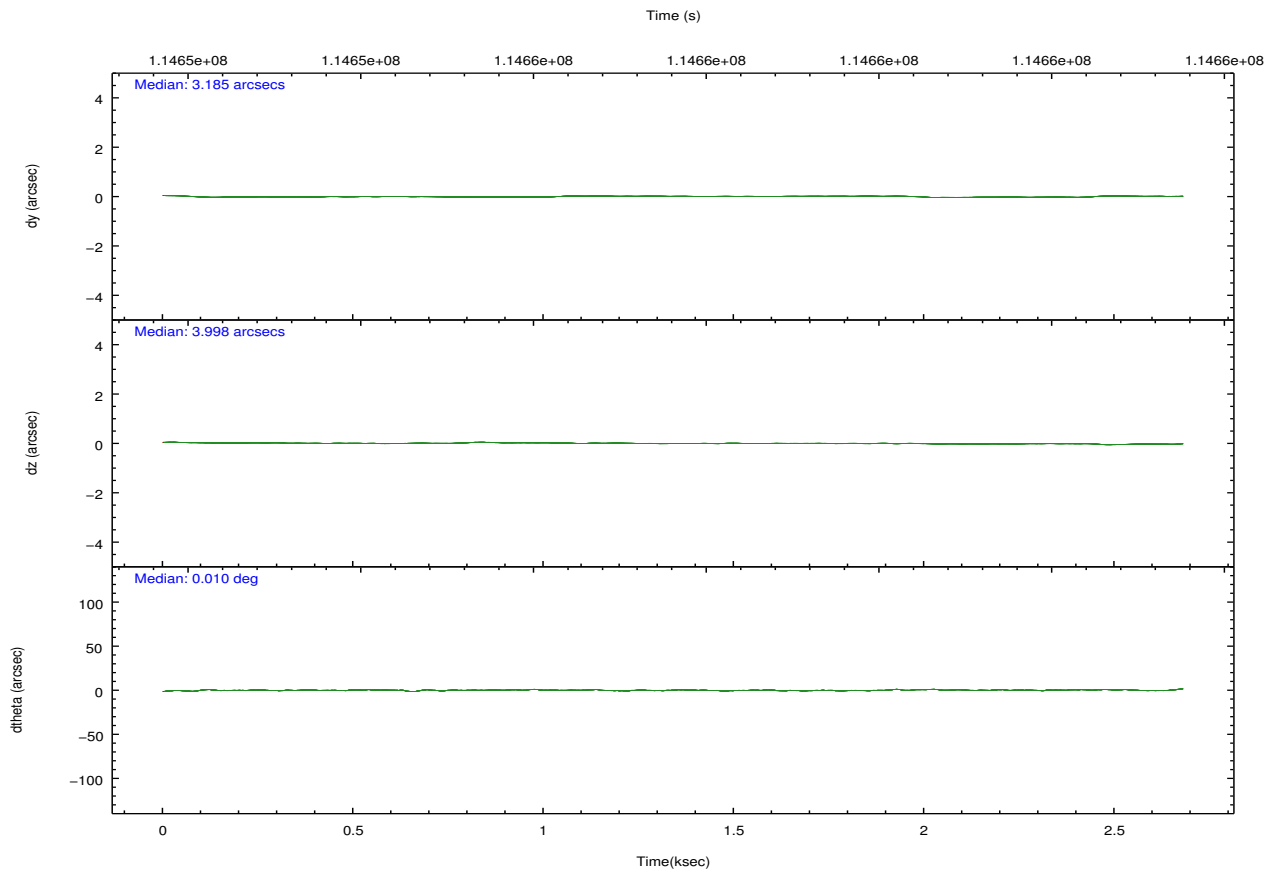
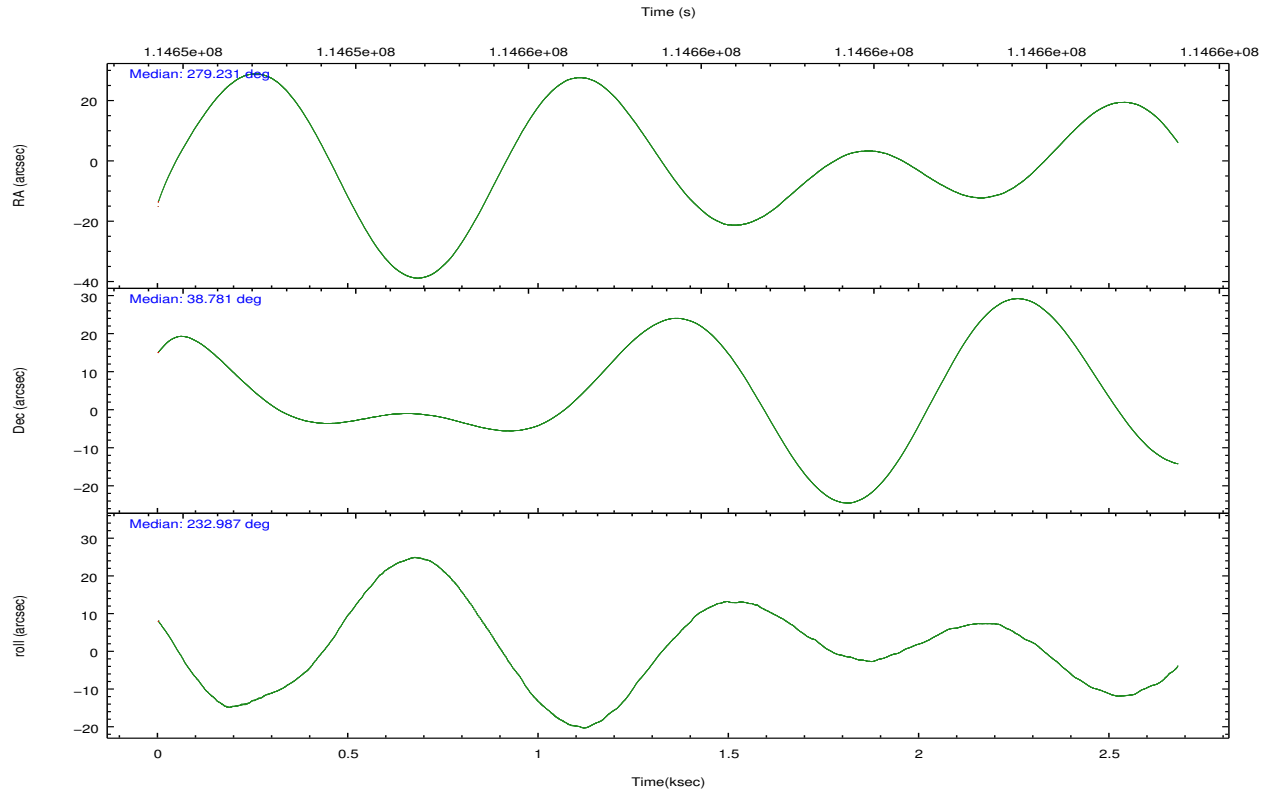
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 179563 |
| rejected events | 36731 |
| rejected % | 20% |

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 | 279.233614 | 279.2308685006074 | | | |
| [deg] Pointing Dec | 38.808645 | 38.78186629571157 | | | |
| [deg] Pointing Roll | 233.088388 | 232.9946284113652 | | | |
| [s] Window start time (MET) | 113011264.184000 | 113011264.184000 | | | |
| [s] Window stop time (MET) | 115516864.184000 | 115516864.184000 | | | |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 | | | |
| [mm] SIM defocus | 0 | 0.001426264420575141 | | | |
| [mm] SIM translation stage pos | 126.985494 | 126.9829799899862 | | | |
| [mm] SIM translation stage offset | 0 | 0.002508901615314585 | | | |
| [s] Observation start time (MET) | 114654245.184000 | 114653450.06374 | | | |
| Observation start date | 2001-08-20T00:23:01 | 2001-08-20T00:10:50 | | | |
| [s] Observation end time (MET) | 114656745.184000 | 114656880.22637 | | | |
| Observation end date | 2001-08-20T01:04:41 | 2001-08-20T01:08:00 | | | |

2.3 Aspect



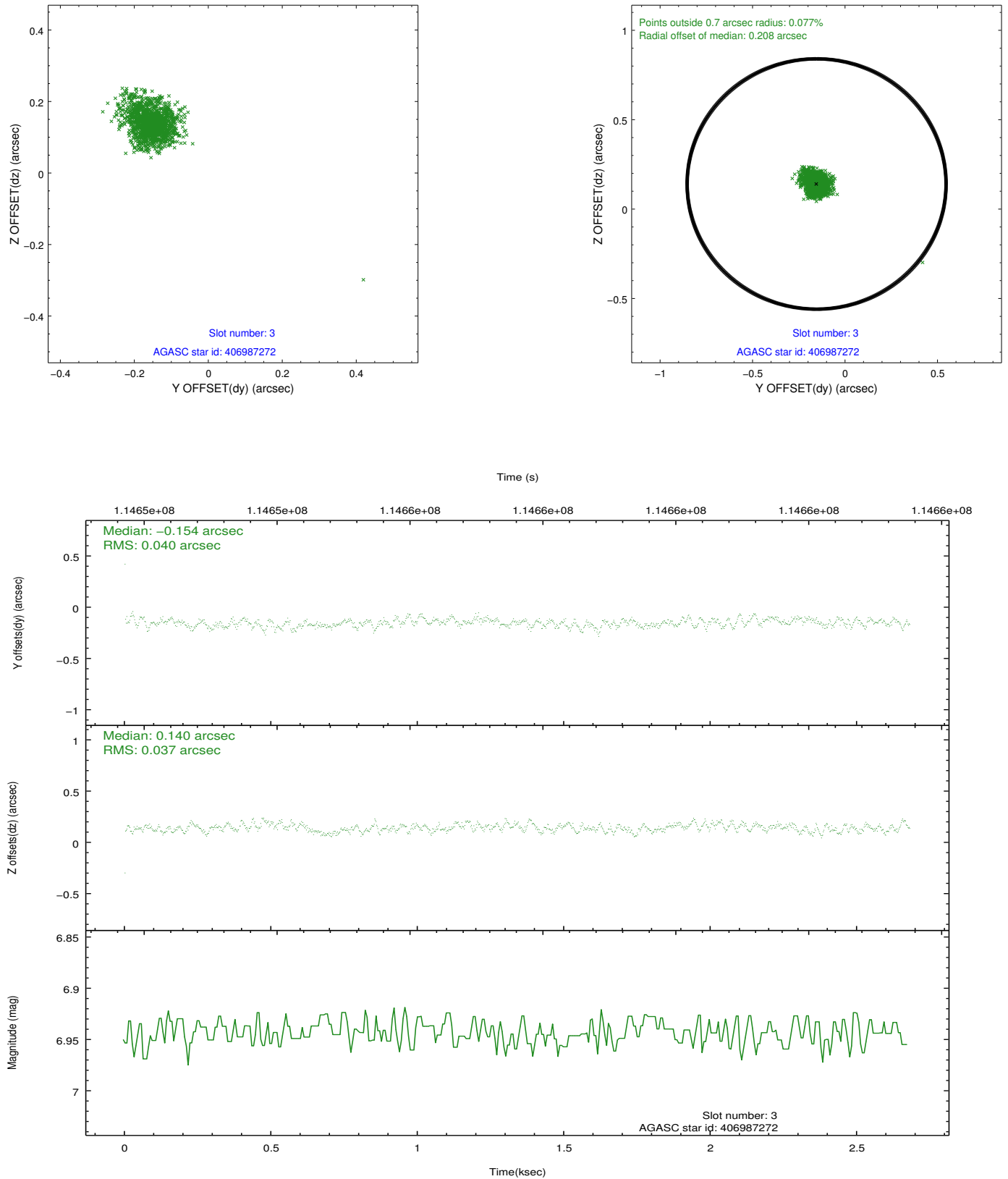


Slot Statistics

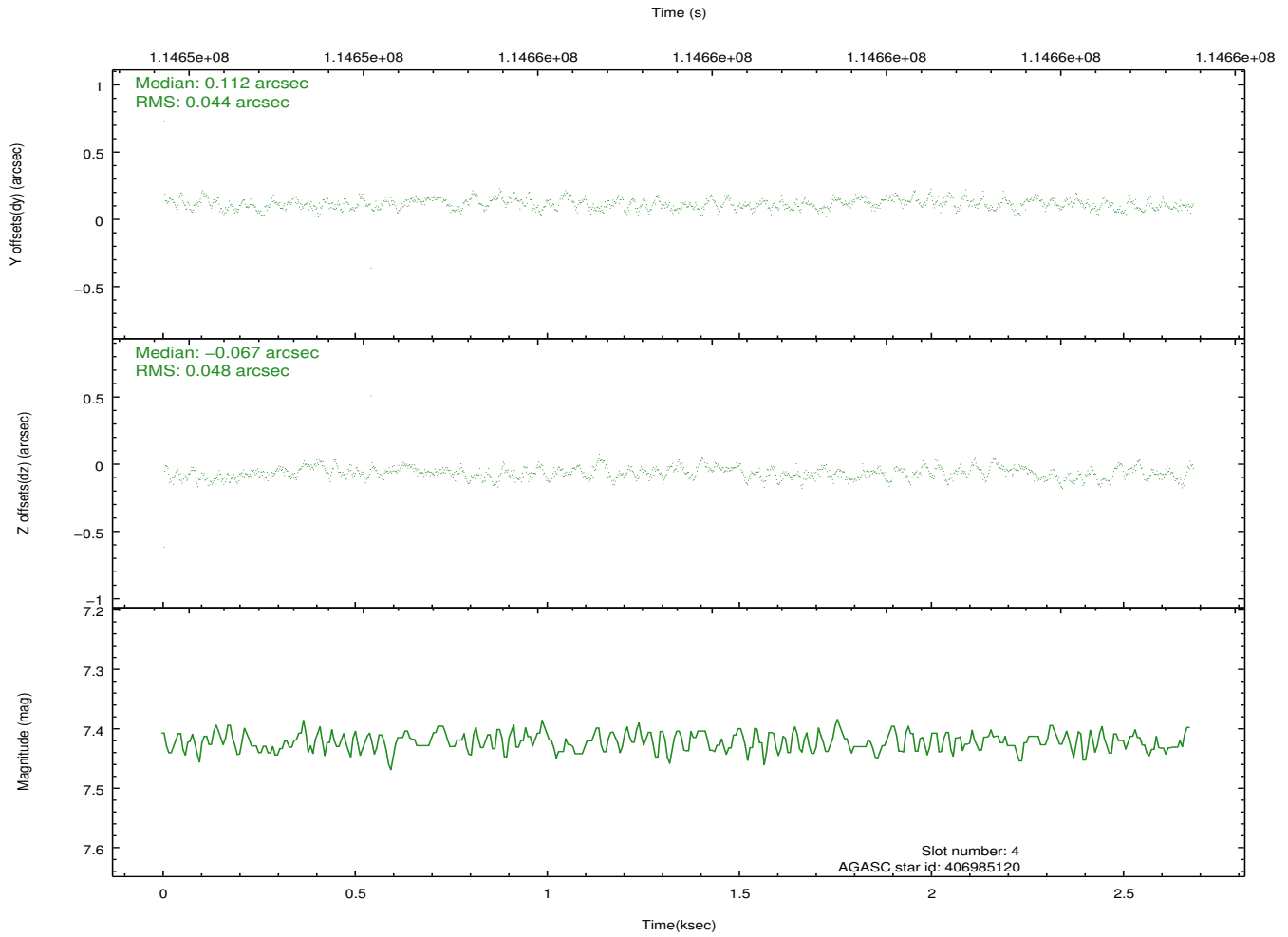
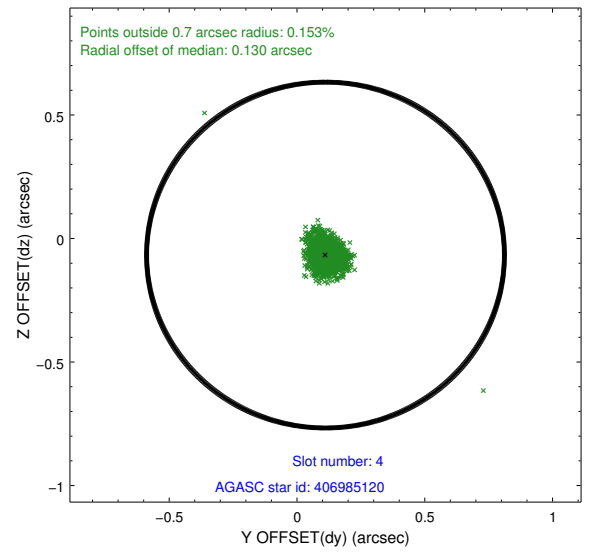
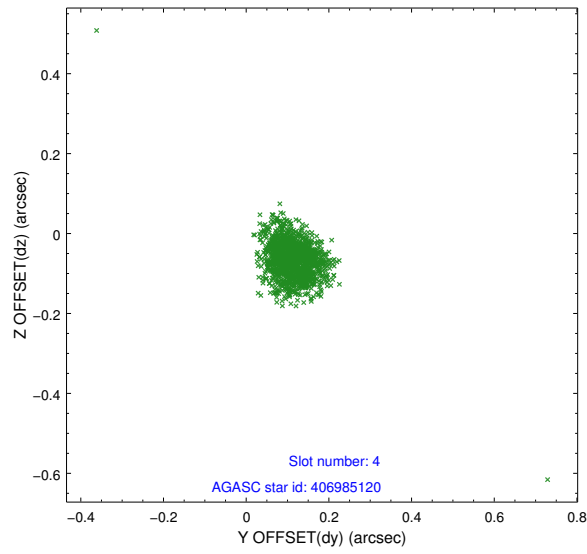
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.97 | 654 | 0.071 | 0.086 | 0.006 | 0.010 | 0.000000 | 0.000000 | -758.62 | -1291.65 |
| 1 | FID | HRC-I-3 | 7.05 | 654 | 0.017 | -0.094 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1188.27 | 1010.76 |
| 2 | FID | HRC-I-4 | 6.98 | 654 | 0.027 | -0.082 | 0.005 | 0.008 | 0.000000 | 0.000000 | 1282.36 | 1011.85 |
| 3 | GUIDE | 406987272 | 6.94 | 1307 | -0.154 | 0.140 | 0.055 | 0.089 | 278.536588 | 38.437504 | 2244.88 | -774.07 |
| 4 | GUIDE | 406985120 | 7.42 | 1308 | 0.112 | -0.067 | 0.061 | 0.100 | 278.839732 | 38.894839 | 416.97 | -1071.60 |
| 5 | GUIDE | 406989616 | 8.22 | 1307 | 0.098 | -0.030 | 0.061 | 0.099 | 279.202881 | 38.520843 | 882.93 | 551.49 |
| 6 | GUIDE | 406983600 | 8.93 | 1308 | 0.004 | 0.029 | 0.072 | 0.120 | 279.940957 | 39.020708 | -1801.96 | 1118.37 |
| 7 | GUIDE | 406985256 | 8.61 | 1307 | -0.065 | -0.082 | 0.058 | 0.095 | 278.693335 | 38.842203 | 810.59 | -1286.43 |

2.4 Star Slots

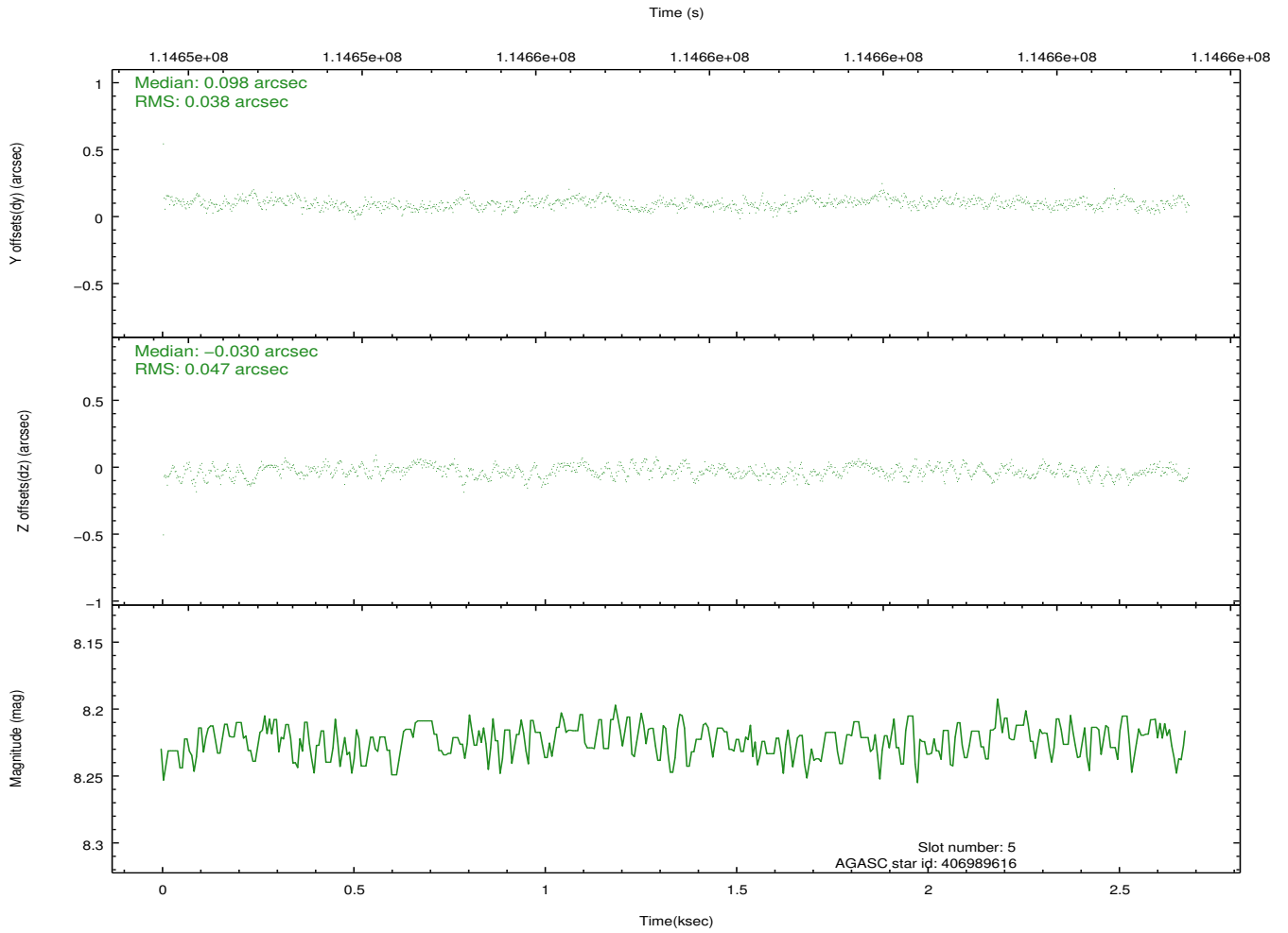
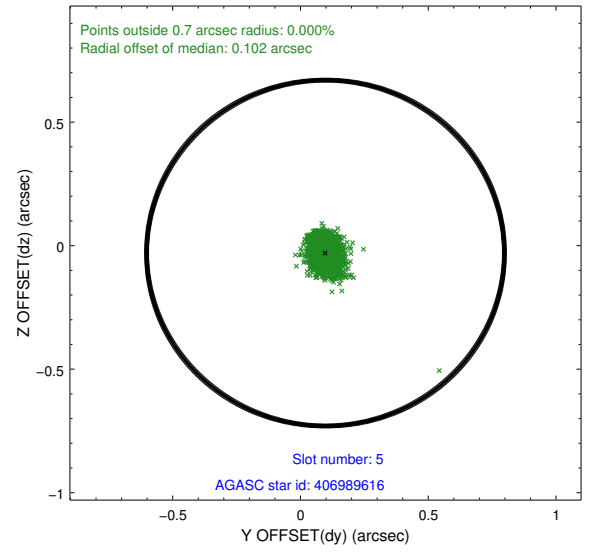
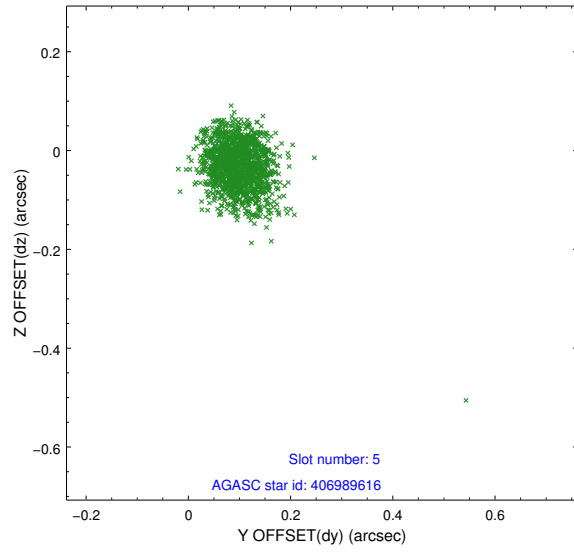
2.4.1 Slot 3



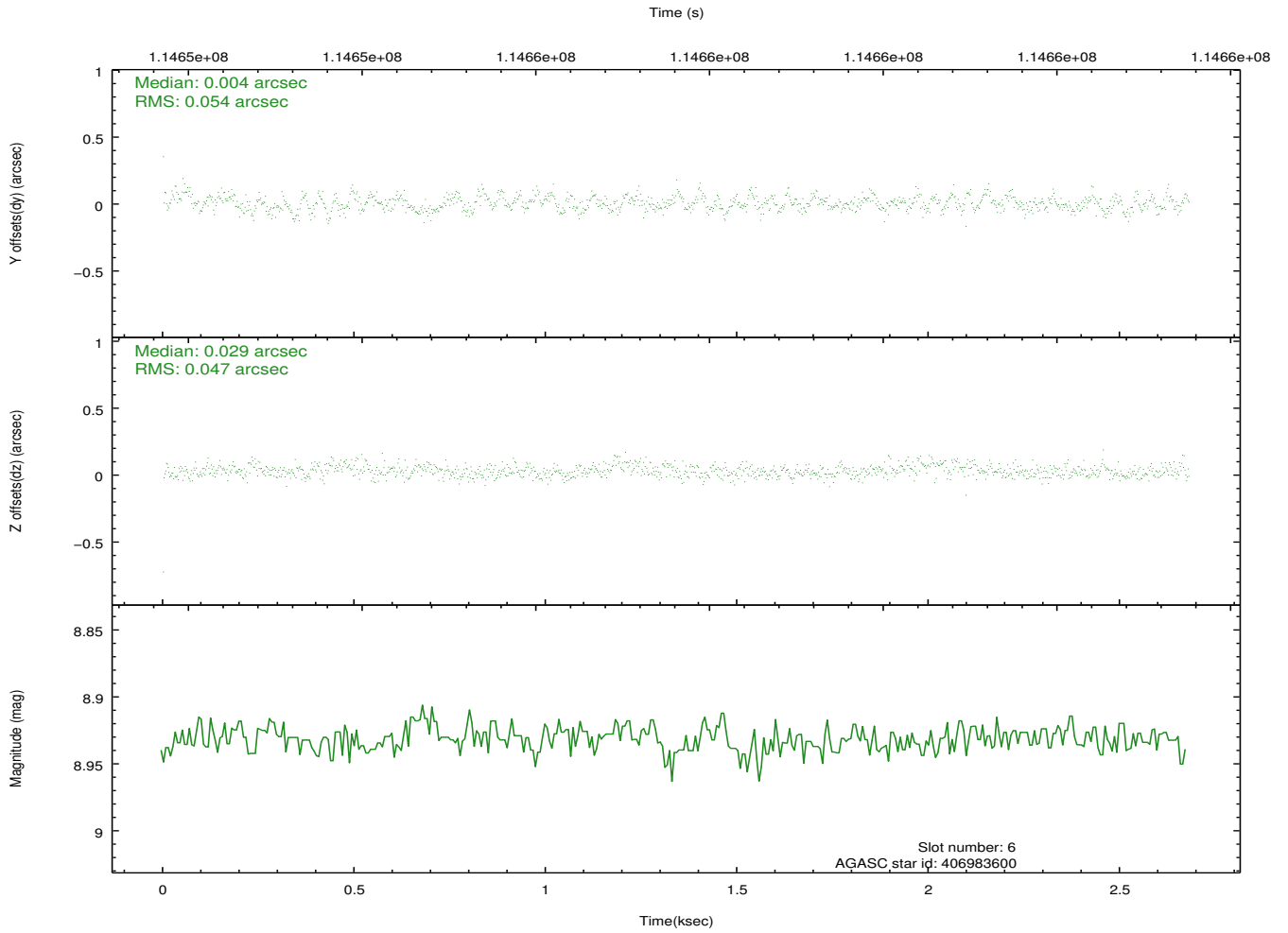
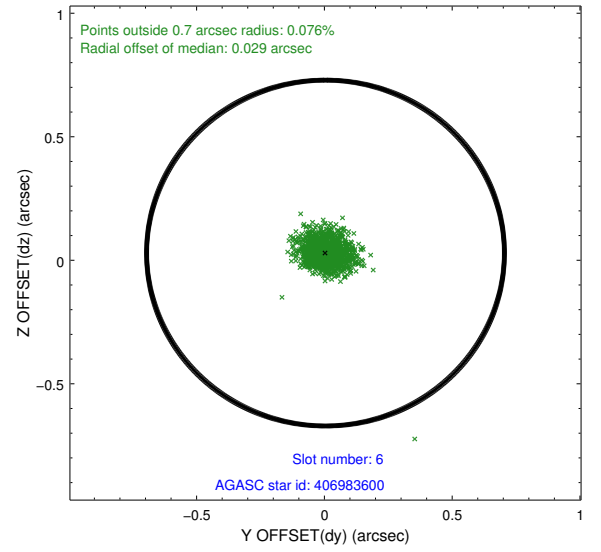
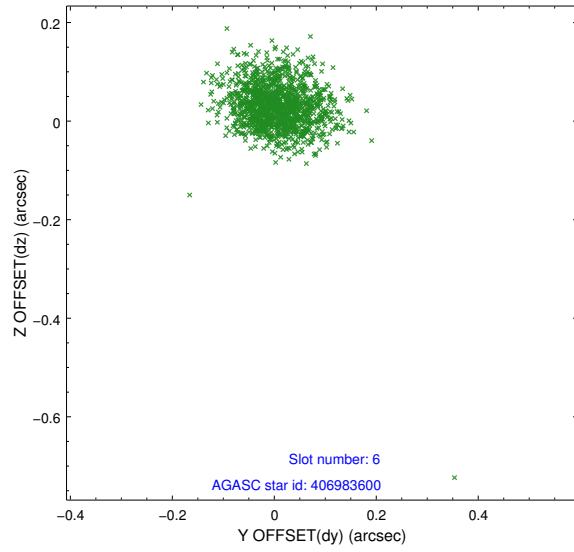
2.4.2 Slot 4



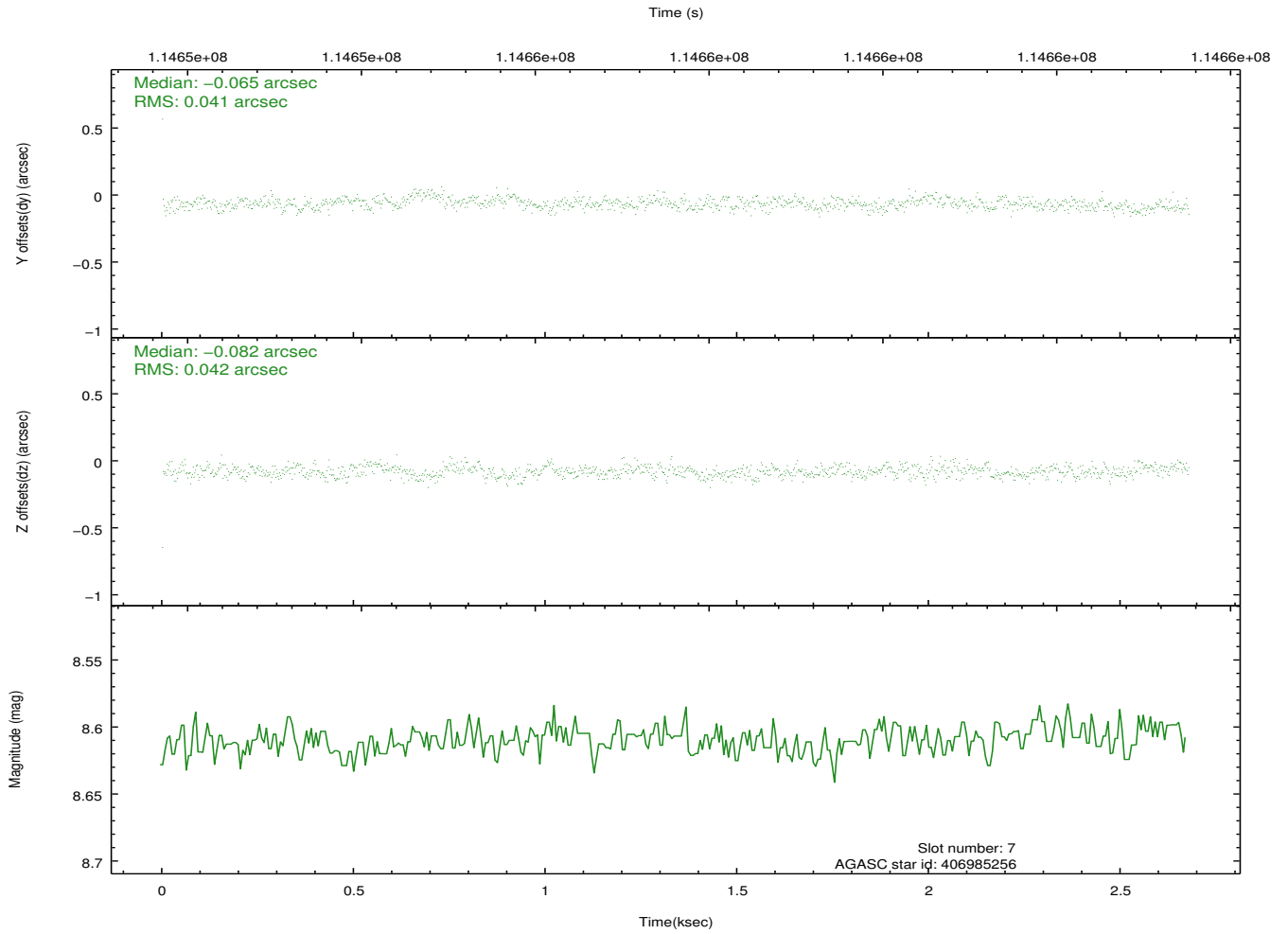
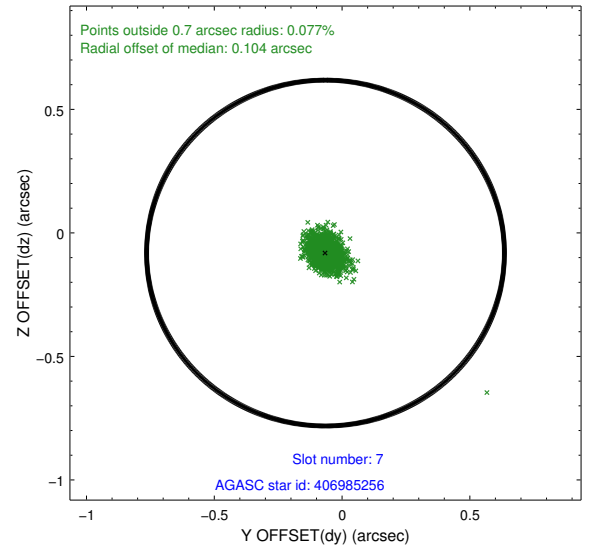
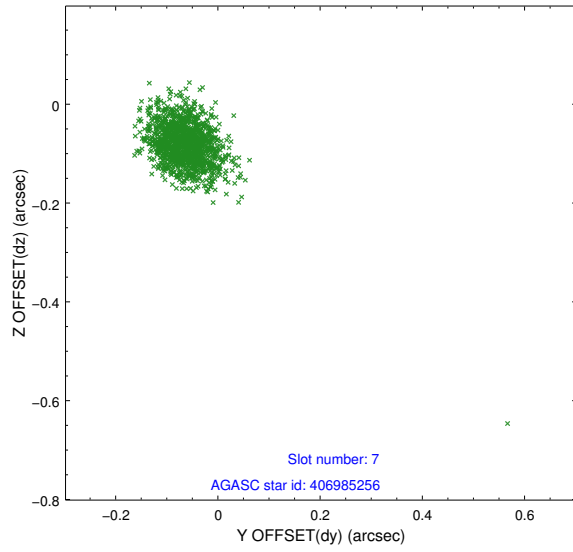
2.4.3 Slot 5



2.4.4 Slot 6

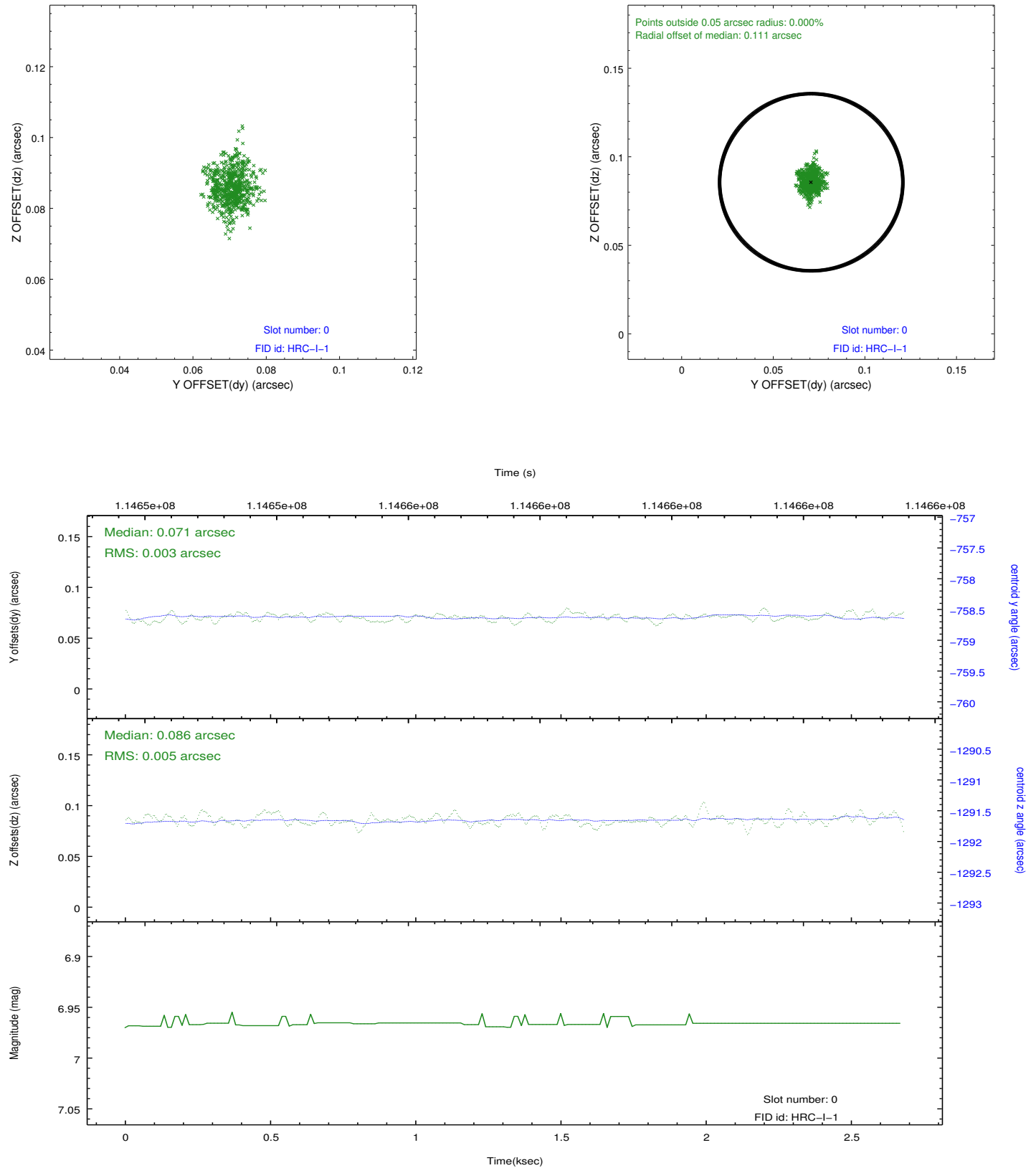


2.4.5 Slot 7

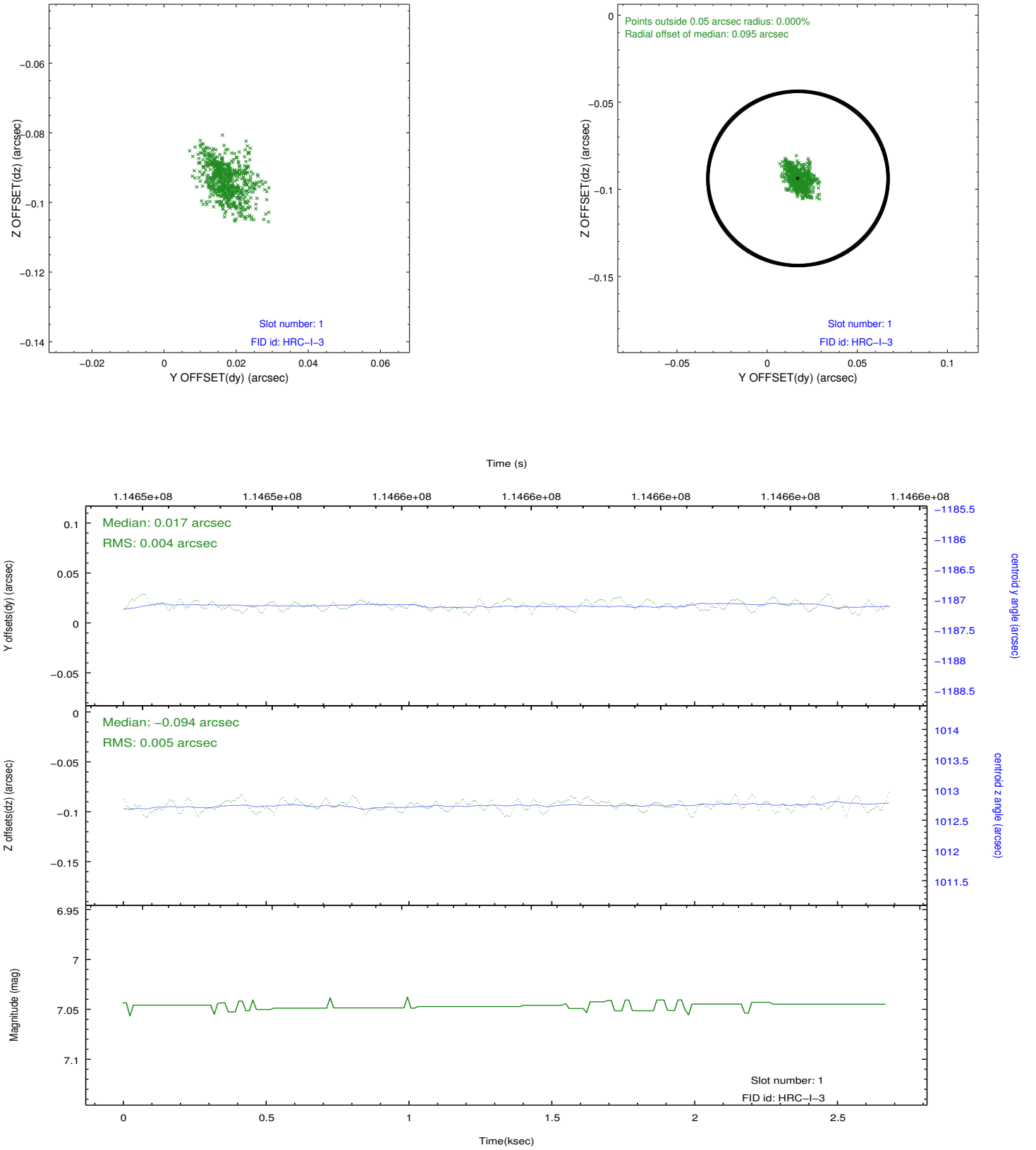


2.5 FID Slots

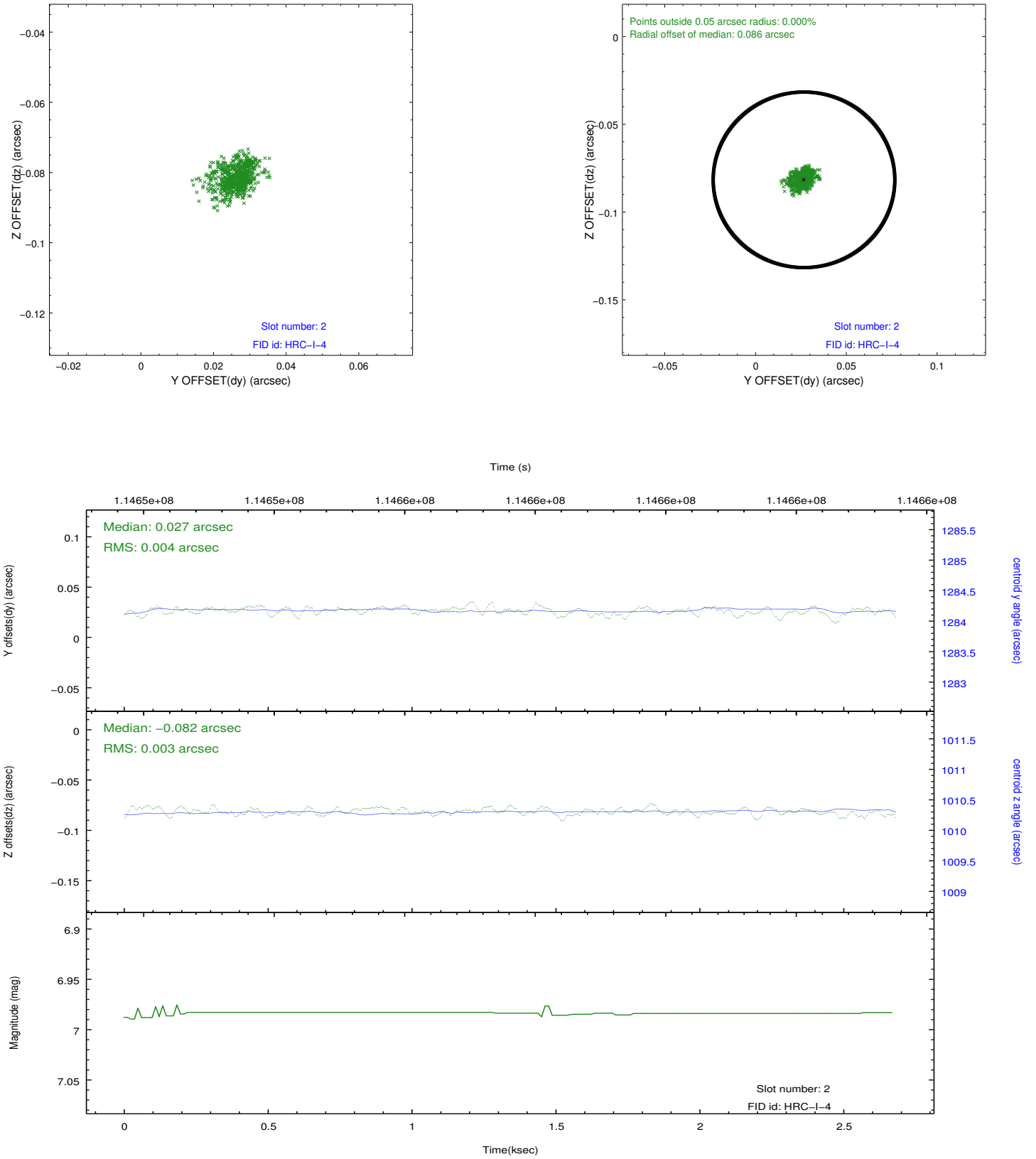
2.5.1 Slot 0



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) | 2012.09.25 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.396 |

A.2 Comments

Window constraint met.