

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1473 - L2 Version 4
Chandra X-Ray Center

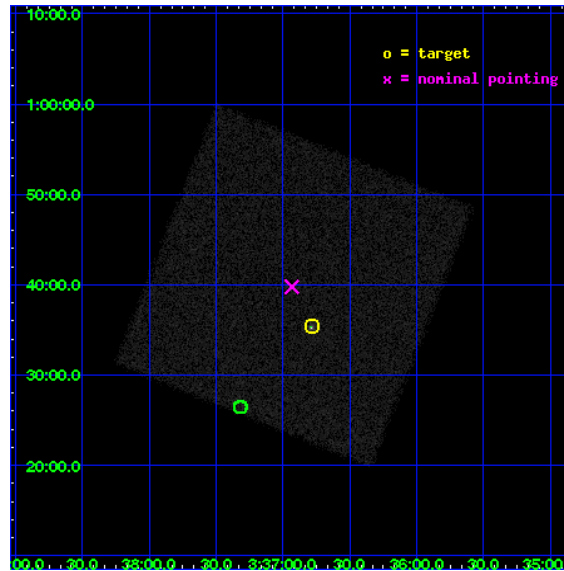
L2 Processing Date : Nov 24 2009

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1 Front

| | | |
|----------|---------------------|---------------------------------|
| seq_num | 290049 | Sequence number |
| obs_id | 1473 | Observation id |
| title | | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | HR1099 | Source name |
| ra_targ | 54.197083 | Observer's specified target RA |
| dec_targ | 0.589972 | Observer's specified target Dec |
| ra_nom | 54.233479360229 | Nominal RA |
| dec_nom | 0.6627925044874 | Nominal Dec |
| roll_nom | 336.7686082943 | Nominal Roll |
| revision | 4 | Processing version of data |
| ontime | 2276.7813322768 | [s] |
| livetime | 2261.8153523264 | Ontime multiplied by DTCOR |
| l2events | 82931 | Number of level 2 events |

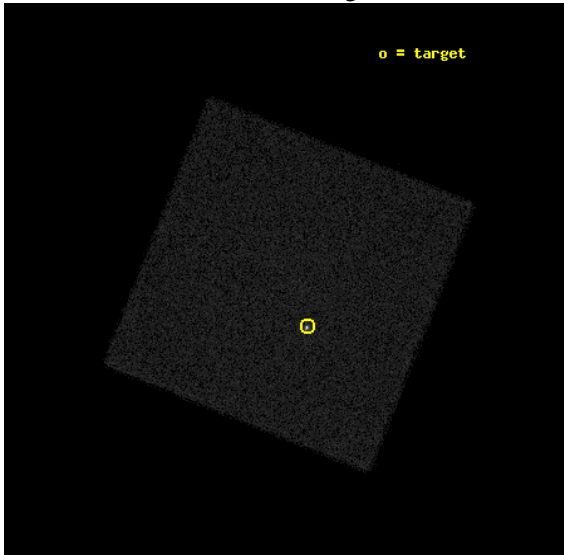


2 OBI

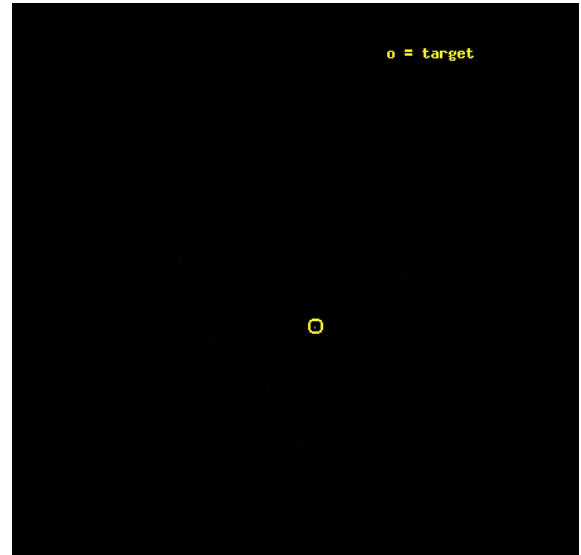
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-------------------------------------|
| obi_num | 0 | Obi number | sched_exp_time | 2000.000000 | Scheduled observation exposure time |
| ascdsver | 8.1.1 | Processing system revision | ontime | 2276.7813322768 | [s] |
| caldbver | 4.1.4 | | l1events | 120433 | Number of level 1 events |
| date | 2009-11-24T15:15:38 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

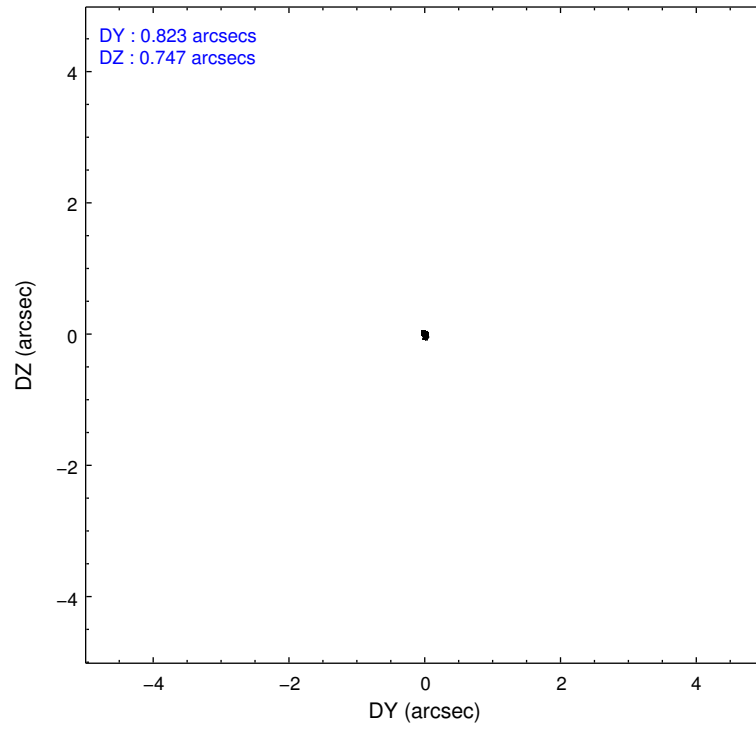
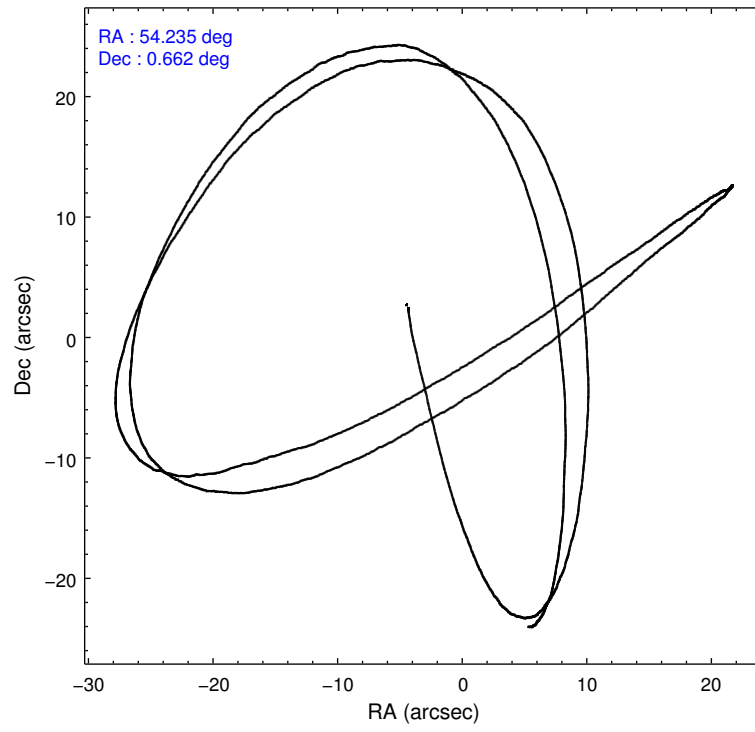
| | segment 0 |
|-----------------|----------------------|
| level 1 events | 120433 |
| rejected events | 2537 |
| rejected % | 2% |

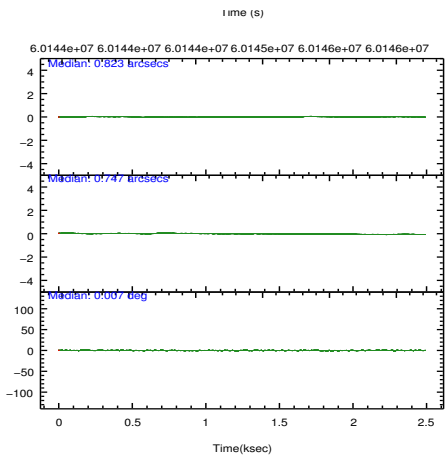
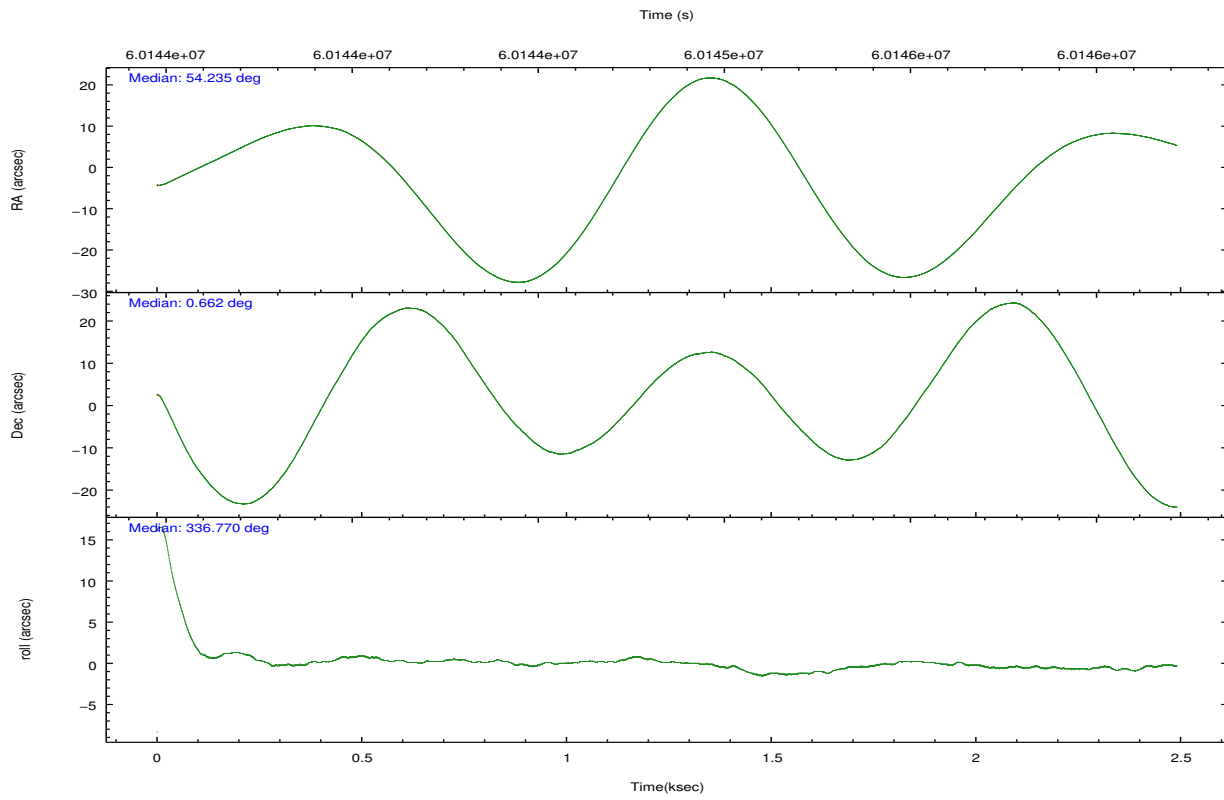
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|------------------------|
| Instrument | HRC | HRC |
| Detector | HRC-I | HRC-I |
| Grating | NONE | NONE |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| Pointing RA | 54.205891 | 54.23347936022917 |
| Pointing Dec | 0.659795 | 0.6627925044874 |
| Pointing Roll | 336.864343 | 336.7686082942961 |
| 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 | 60144091.184000 | 60143424.691864 |
| Observation start date | 1999-11-28T02:40:27 | 1999-11-28T02:30:24 |
| Observation end time | 60146091.184000 | 60146224.991965 |
| Observation end date | 1999-11-28T03:13:47 | 1999-11-28T03:17:04 |

| Parameter | Planned | Actual |
|------------------------------|-----------|---------|
| Obspar format version number | 6 | 6 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |

2.3 Aspect



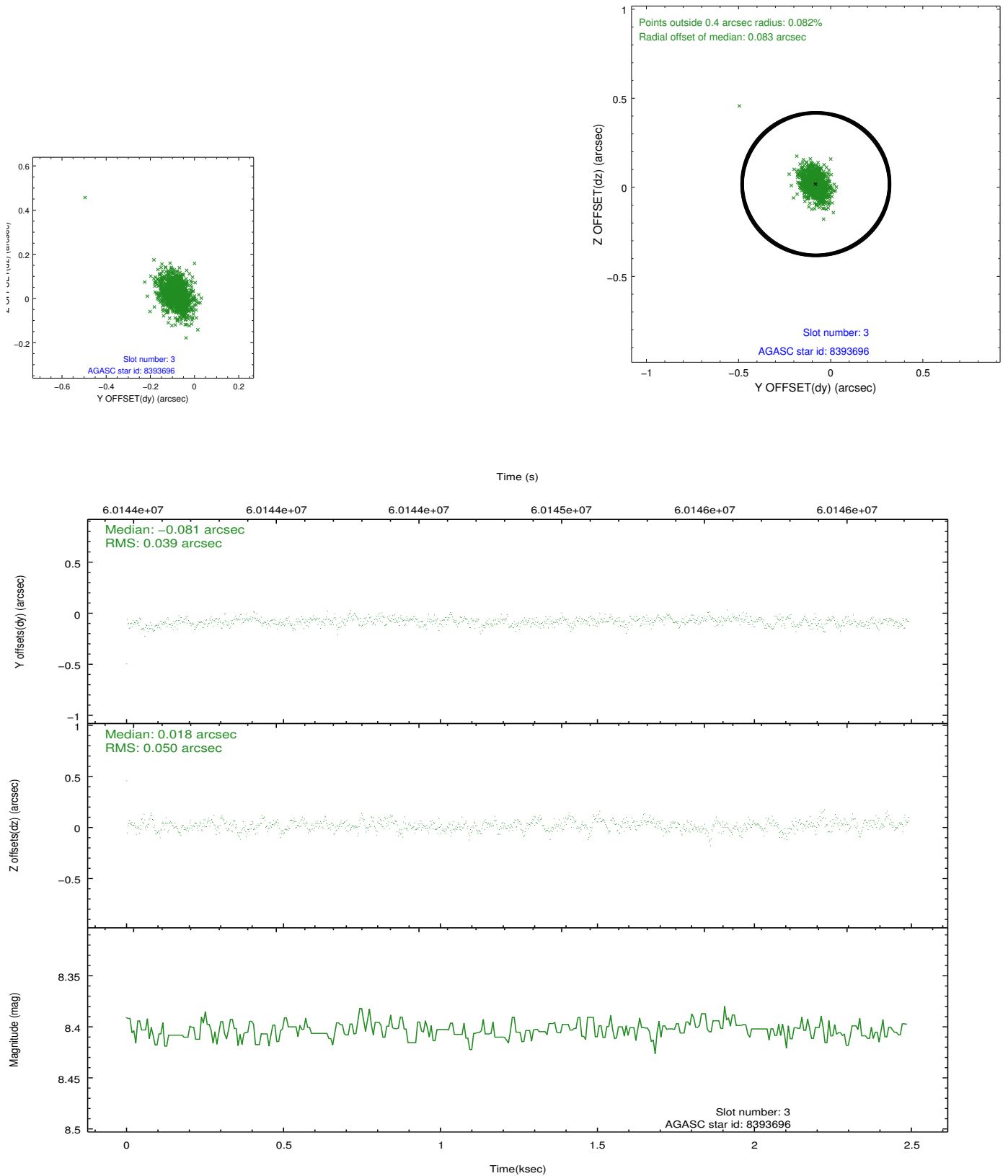


Slot Statistics

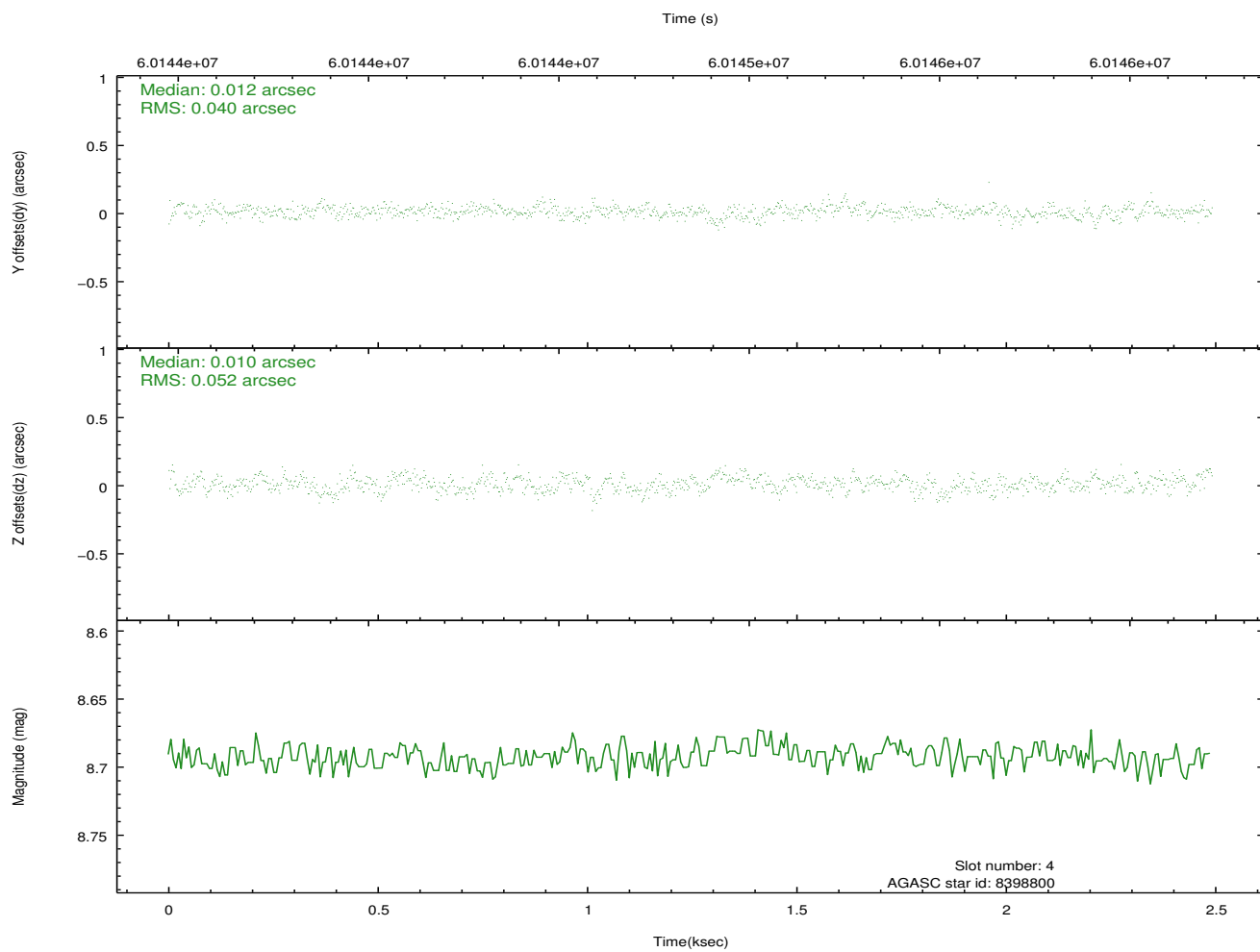
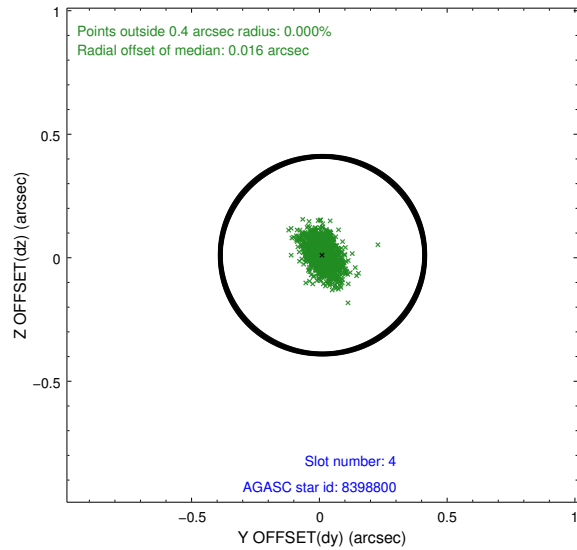
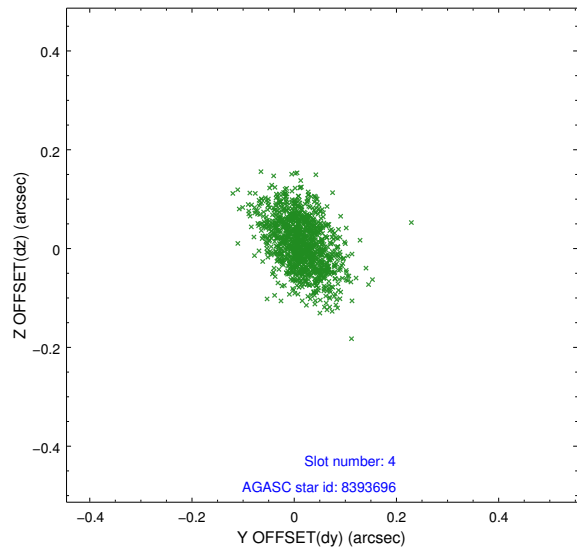
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|---------|------|-------|--------|--------|-------|-------|-----------|----------|----------|----------|
| 0 | FID | HRC-I-2 | 7.00 | 1216 | 0.015 | -0.031 | 0.006 | 0.010 | 0.000000 | 0.000000 | 856.45 | -1290.03 |
| 1 | FID | HRC-I-3 | 7.05 | 1216 | 0.045 | -0.052 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1184.01 | 1014.96 |
| 2 | FID | HRC-I-4 | 6.99 | 1216 | 0.059 | -0.003 | 0.006 | 0.011 | 0.000000 | 0.000000 | 1285.60 | 1014.59 |
| 3 | GUIDE | 8393696 | 8.40 | 1216 | -0.081 | 0.018 | 0.063 | 0.112 | 53.645666 | 0.680479 | -1886.63 | -722.74 |
| 4 | GUIDE | 8398800 | 8.69 | 1215 | 0.012 | 0.010 | 0.068 | 0.116 | 54.242352 | 0.922024 | -254.47 | 920.06 |
| 5 | GUIDE | 8390744 | 9.01 | 1216 | -0.021 | -0.087 | 0.074 | 0.123 | 53.677290 | 0.926294 | -2129.66 | 136.48 |
| 6 | GUIDE | 8395104 | 8.66 | 1216 | 0.031 | 0.007 | 0.067 | 0.117 | 54.744893 | 0.796520 | 1586.35 | 1216.13 |
| 7 | GUIDE | 8395504 | 9.75 | 1213 | 0.057 | 0.054 | 0.104 | 0.173 | 54.466573 | 0.973564 | 417.73 | 1409.47 |

2.4 Star Slots

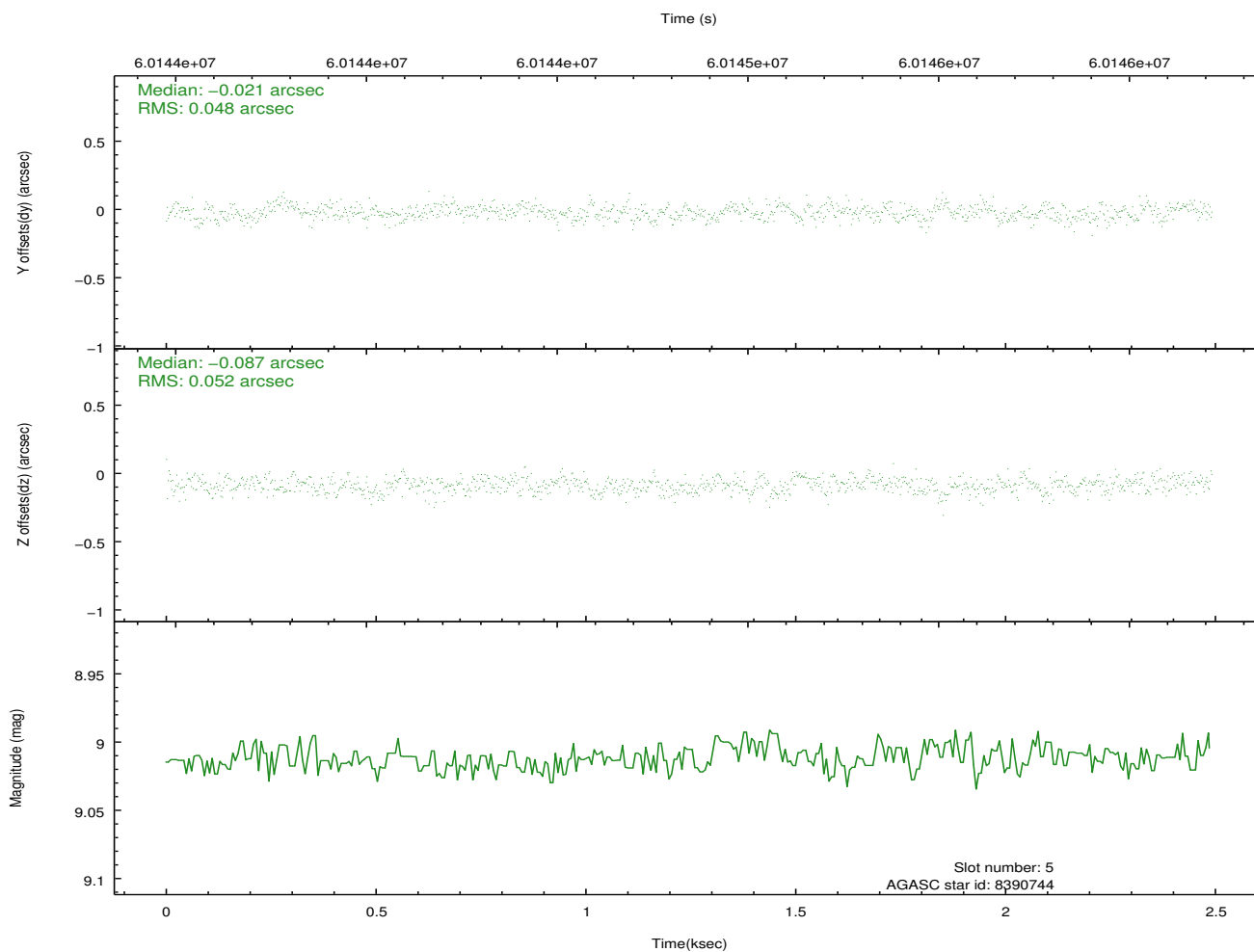
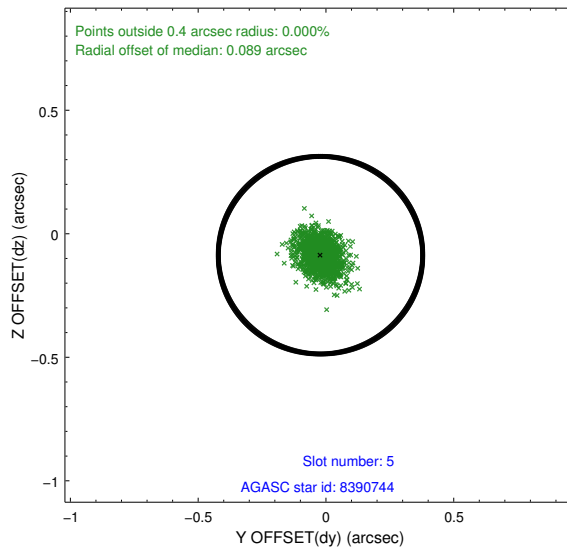
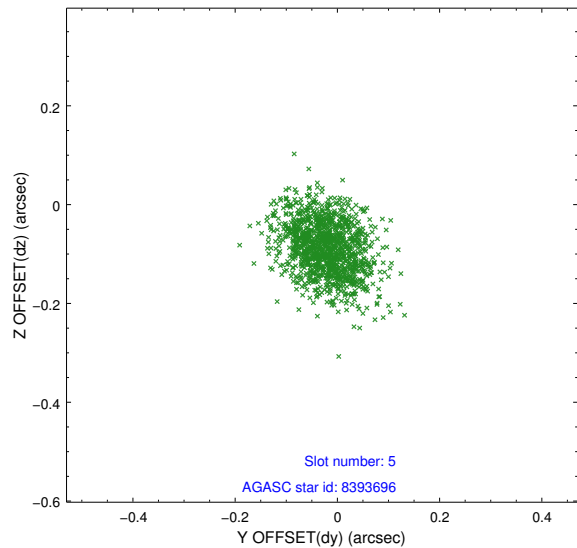
2.4.1 Slot 3



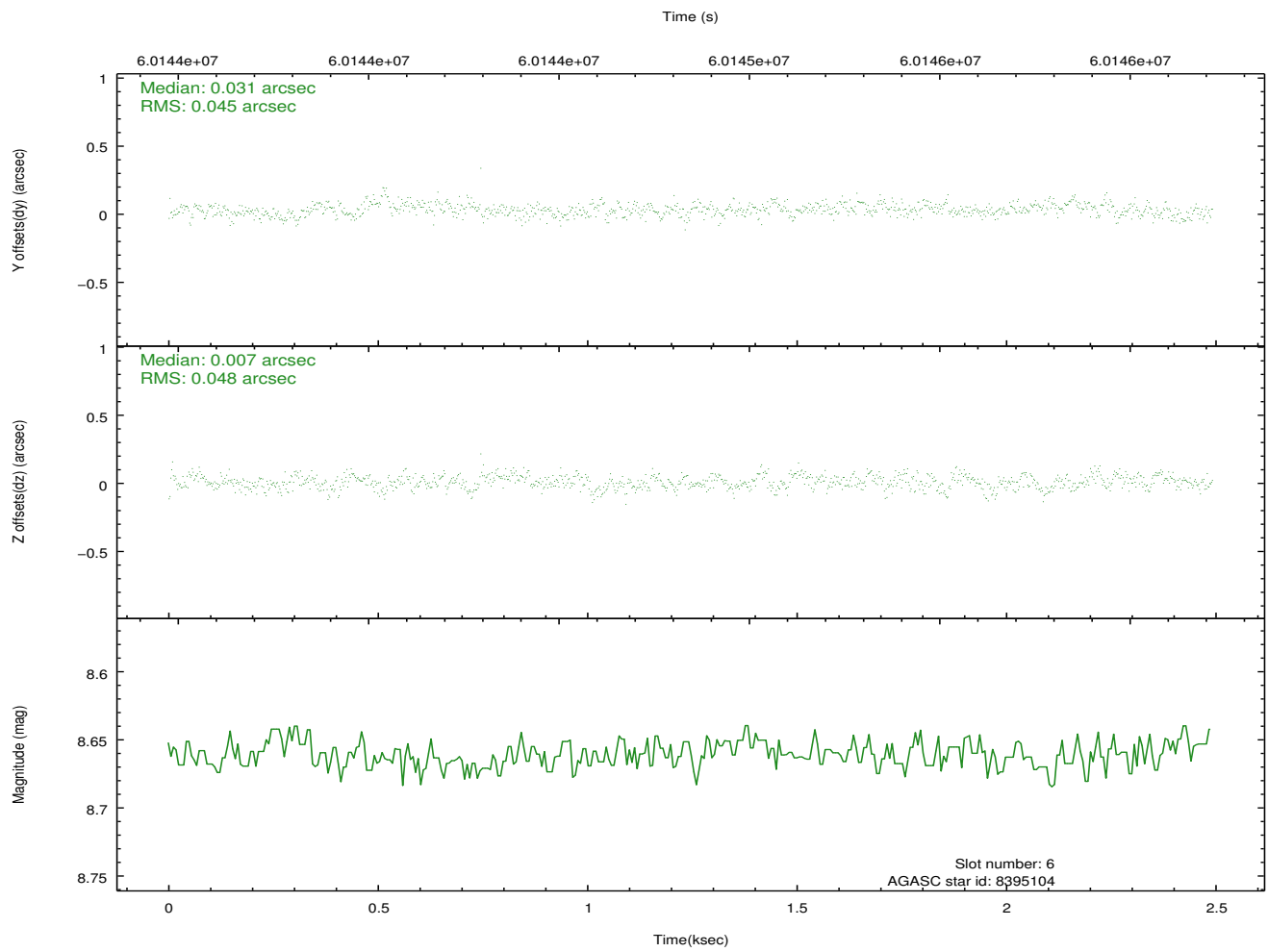
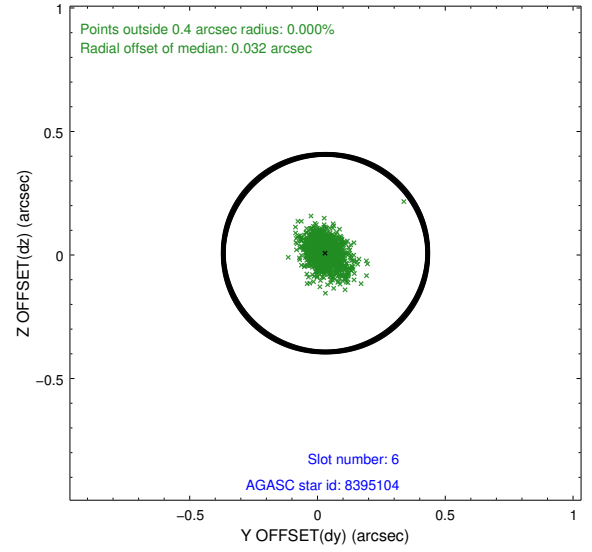
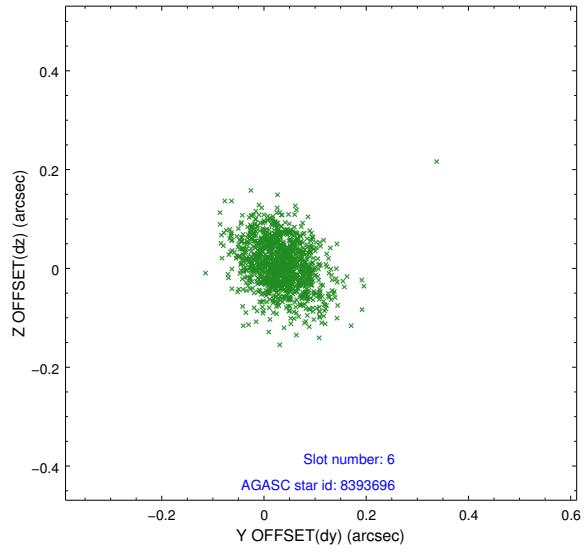
2.4.2 Slot 4



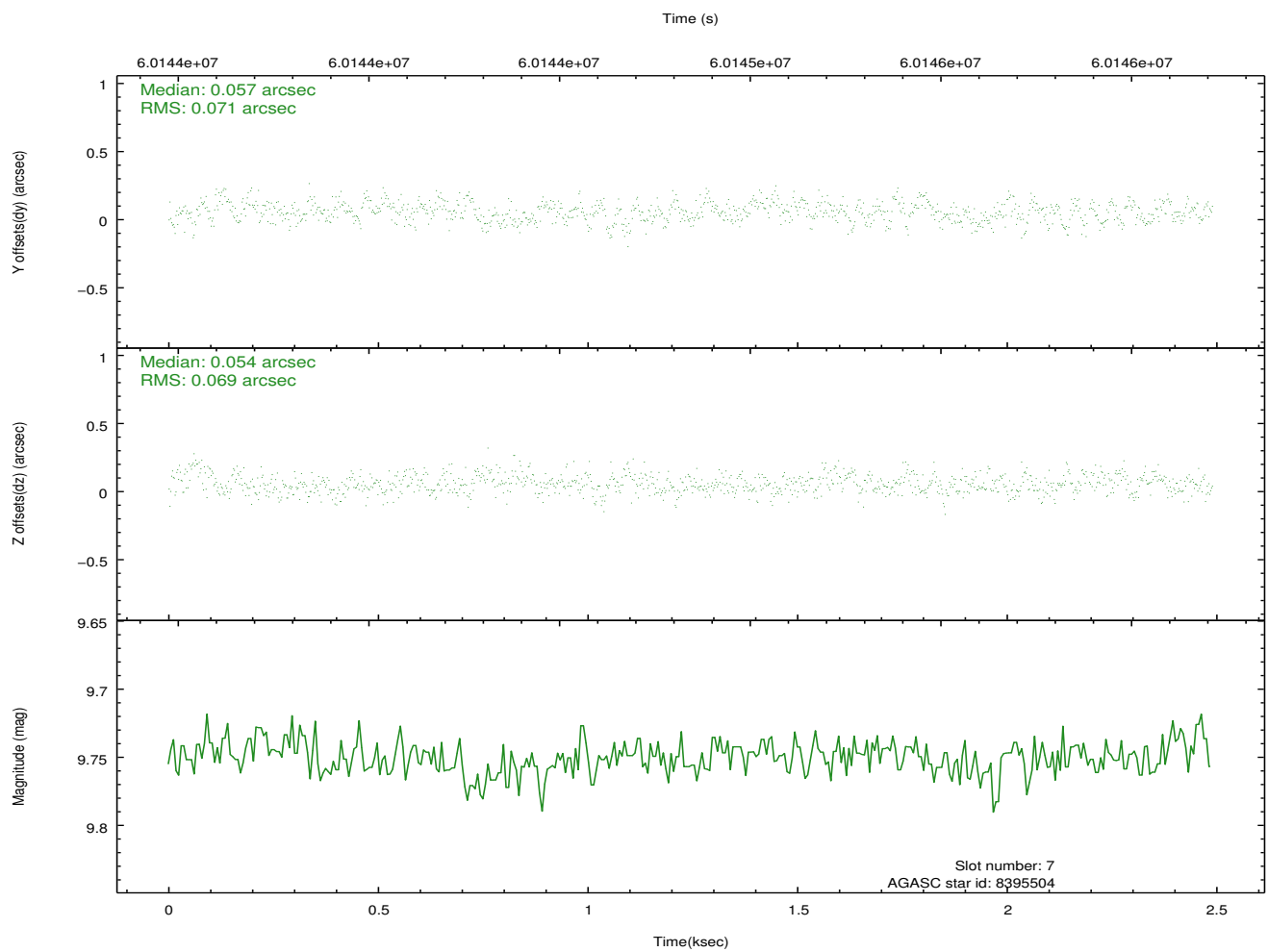
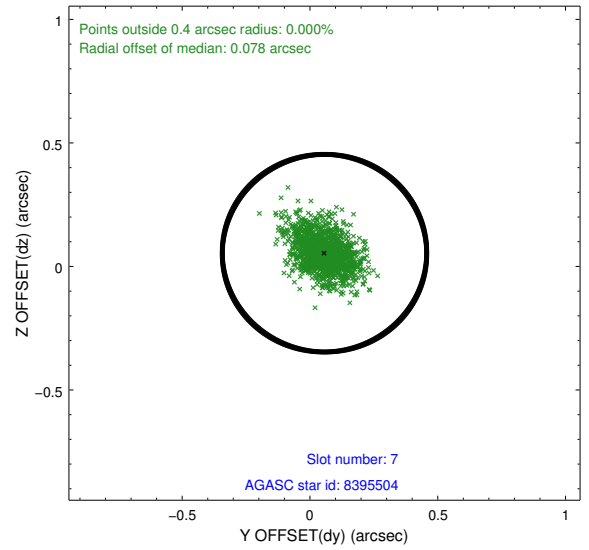
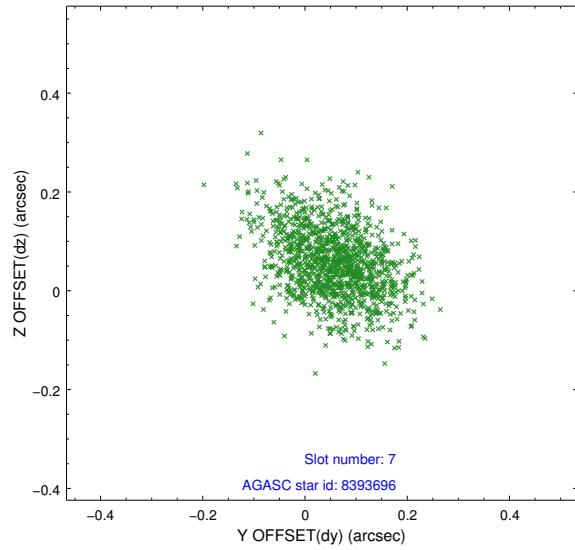
2.4.3 Slot 5



2.4.4 Slot 6

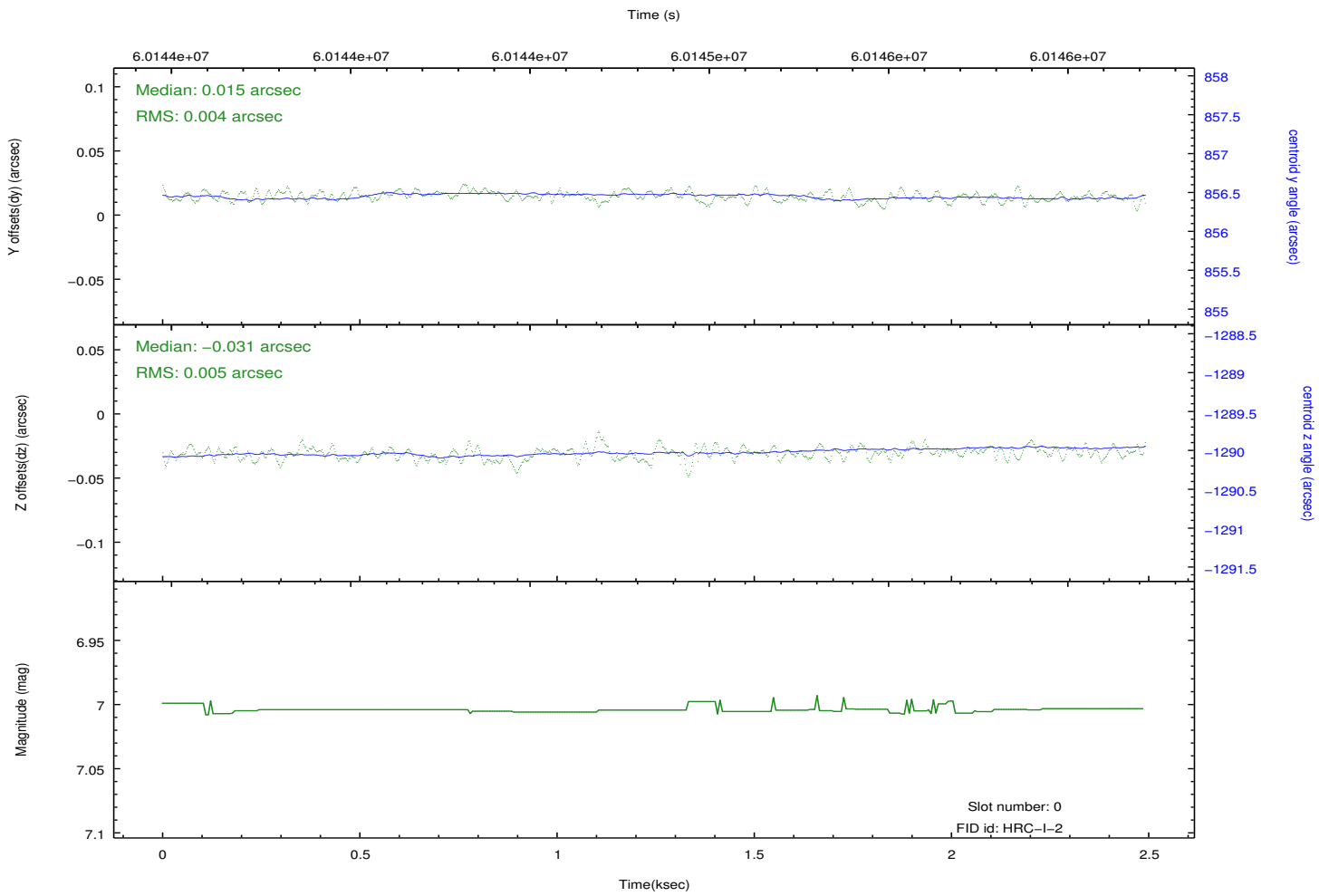
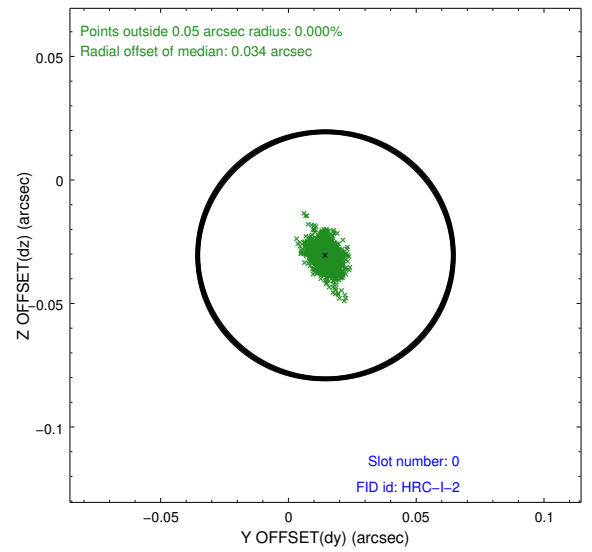
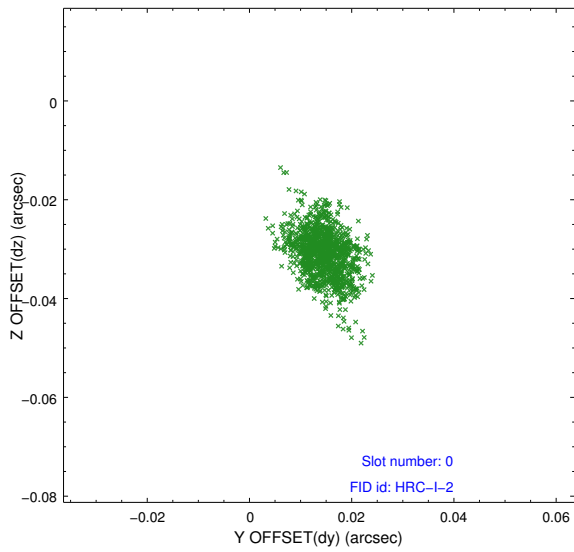


2.4.5 Slot 7

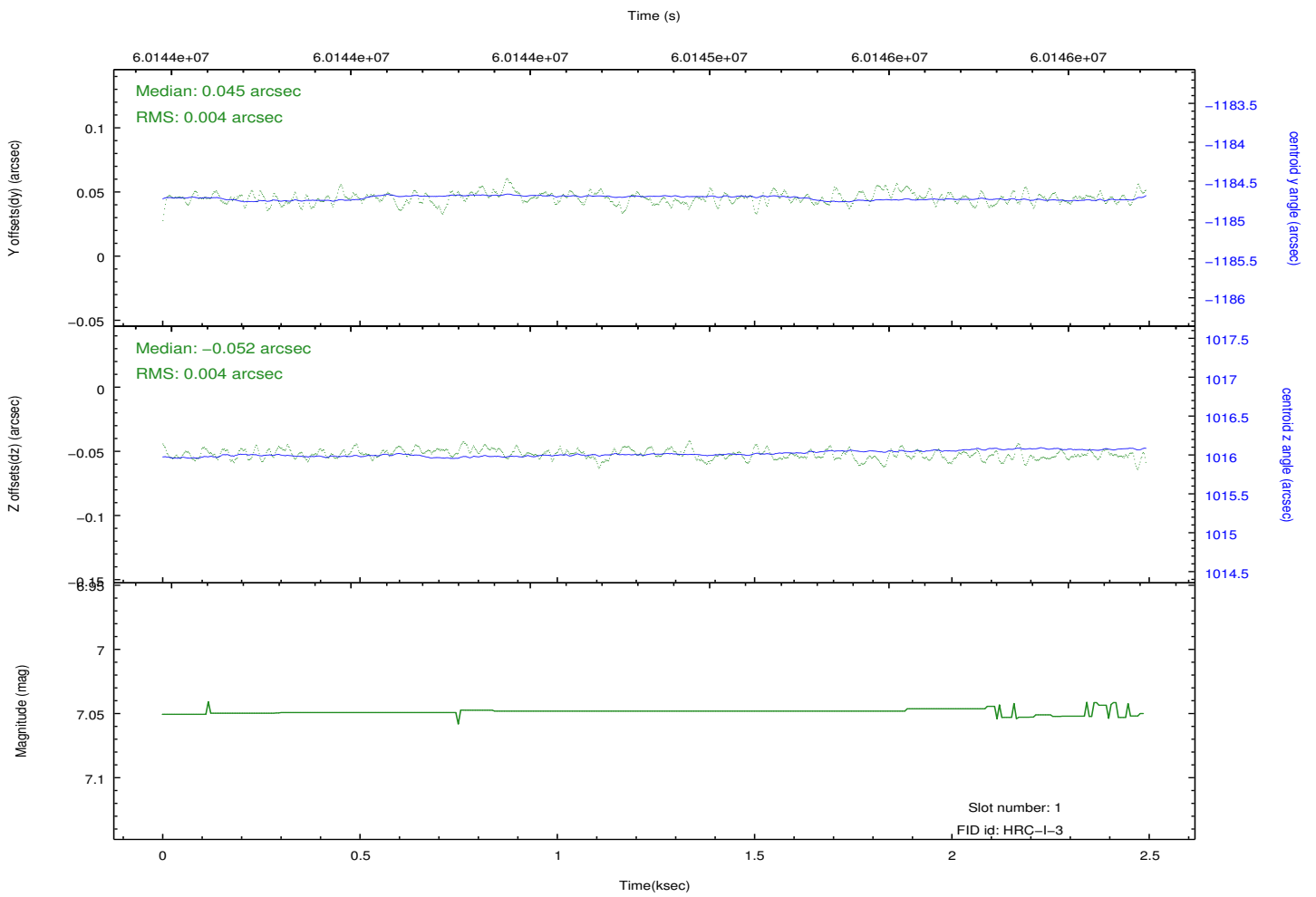
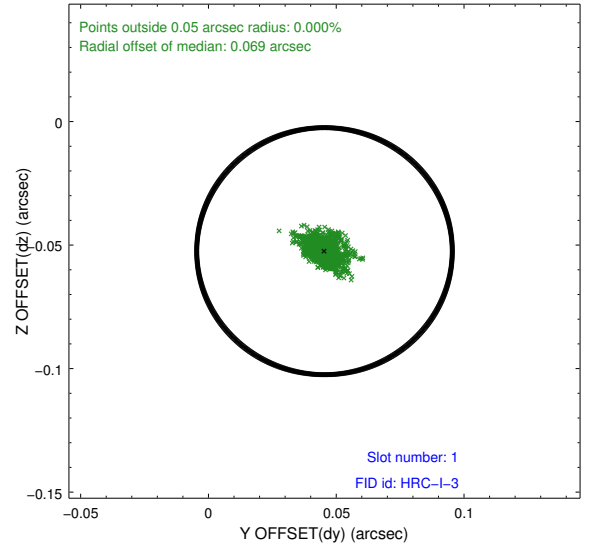
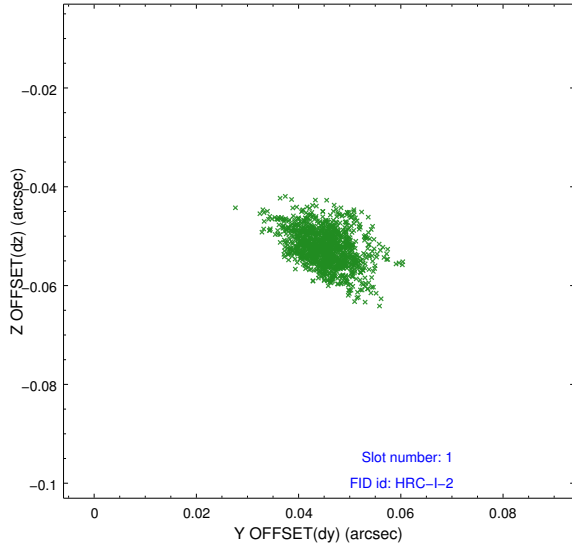


2.5 FID Slots

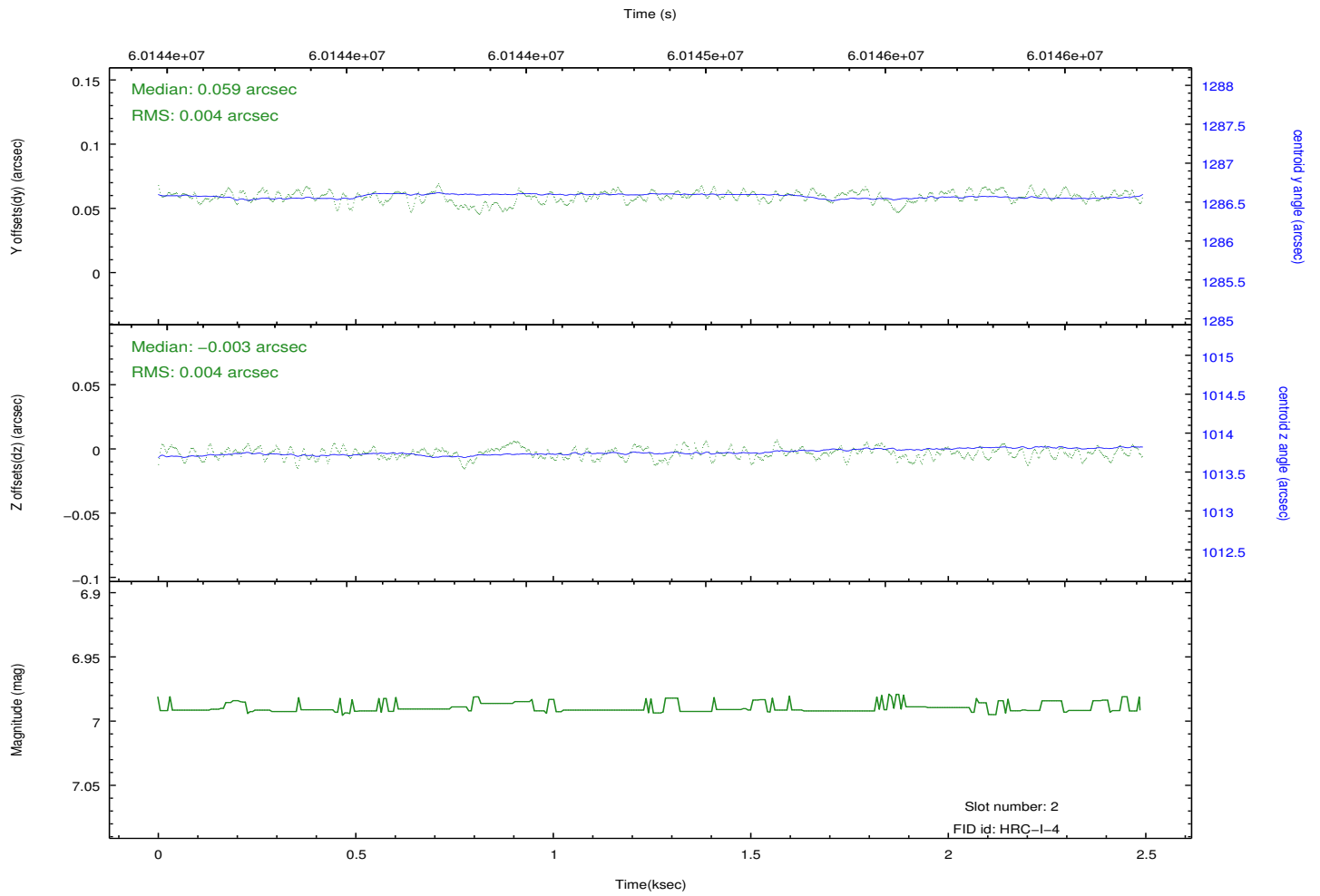
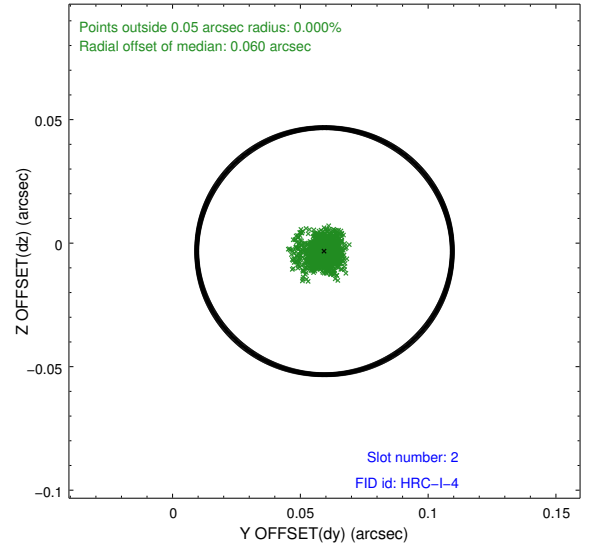
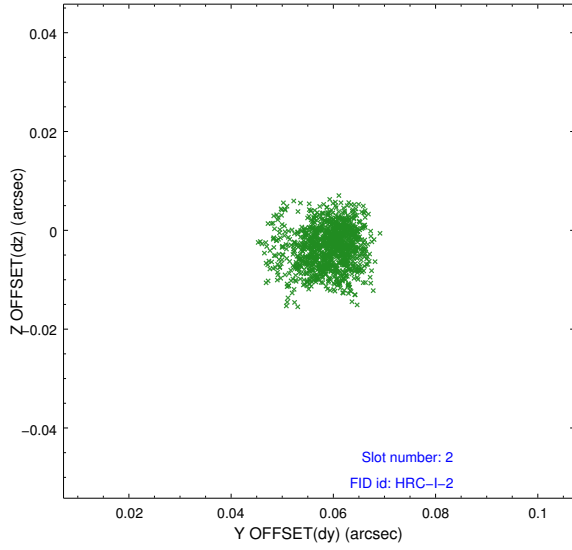
2.5.1 Slot 0



2.5.2 Slot 1

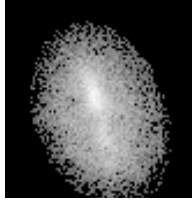


2.5.3 Slot 2



3 Point Sources

5.00 arcmin



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2009.12.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.276 |

A.2 Comments

HRC-I point spread function calibration.