

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6550 - L2 Version 5
Chandra X-Ray Center

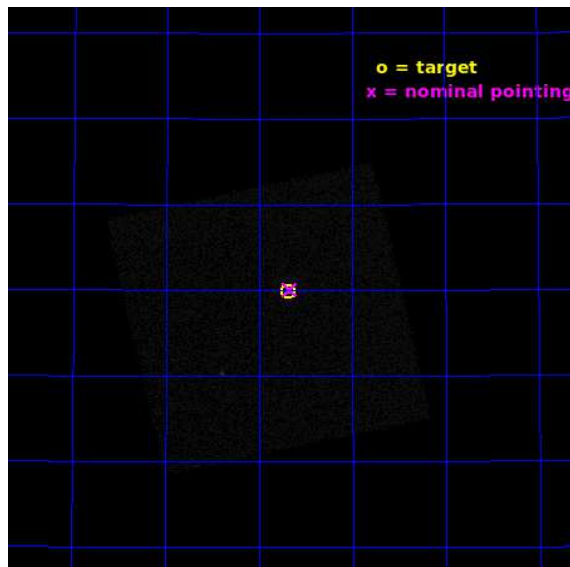
L2 Processing Date : Oct 12 2020

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1 Front

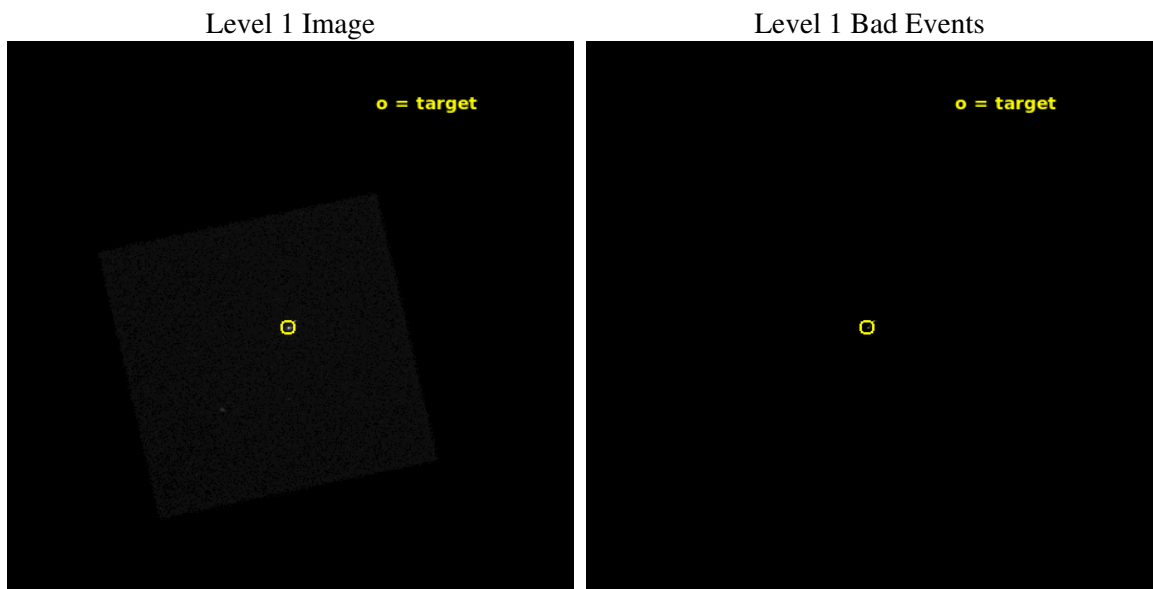
| | | |
|----------|--|---------------------------------------|
| seq_num | 290643 | Sequence number |
| obs_id | 6550 | Observation id |
| title | Improving the De-Gap Corrections for the HRC-I | Proposal title |
| observer | CXC Calibration | Principal investigator |
| object | Capella | Source name |
| ra_targ | 79.1725 | Observer's specified target RA [deg] |
| dec_targ | 45.998 | Observer's specified target Dec [deg] |
| ra_nom | 79.167738561428 | Nominal RA [deg] |
| dec_nom | 46.001131466331 | Nominal Dec [deg] |
| roll_nom | 212.53717740254 | Nominal Roll [deg] |
| revision | 5 | Processing version of data |
| ontime | 5193.9314904809 | [s] |
| livetime | 5146.8531017485 | Ontime multiplied by DTCOR |
| l2events | 325728 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.9.1 | Processing system revision | ontime | 5193.9314904809 | [s] |
| caldsver | 4.9.2 | | l1events | 457425 | Number of level 1 events |
| date | 2020-10-12T06:39:08 | Date and time of file creation | | | |
| revision | 5 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

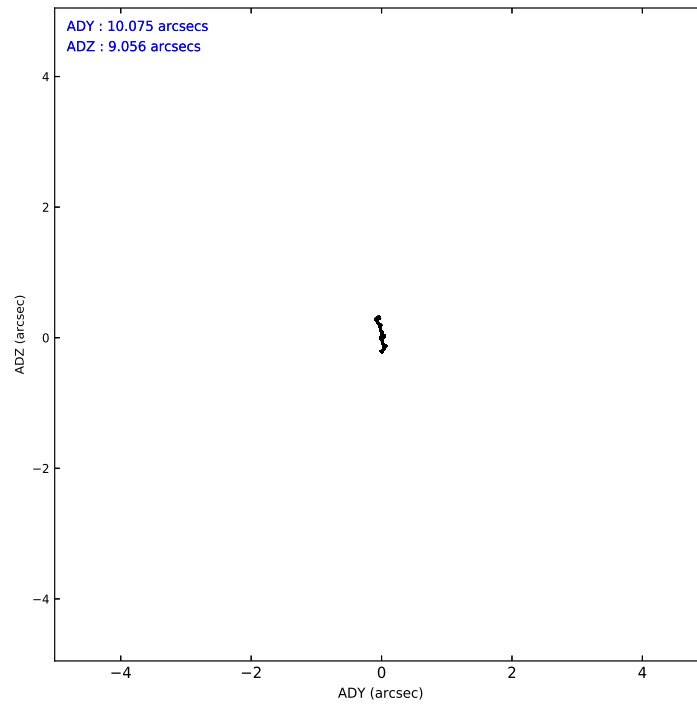
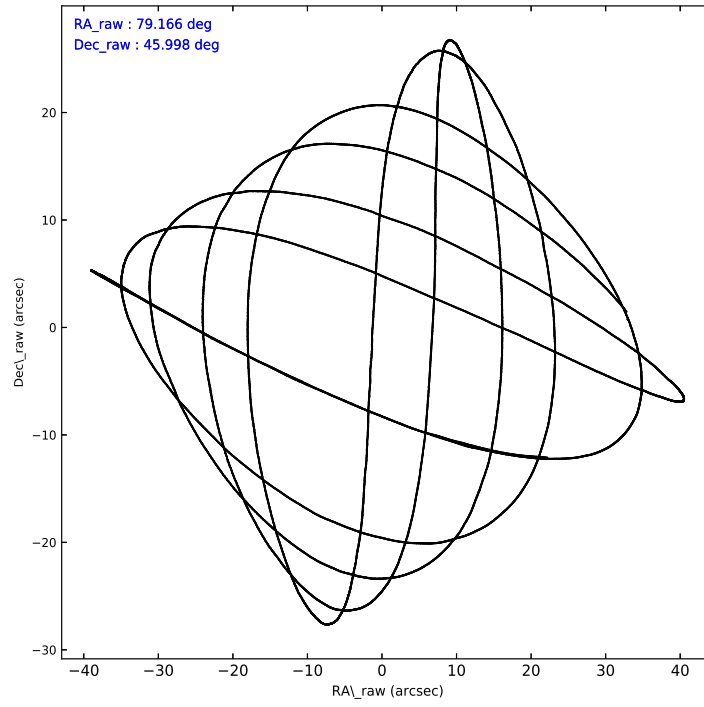
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 457425 |
| rejected events | 25554 |
| rejected % | 5% |

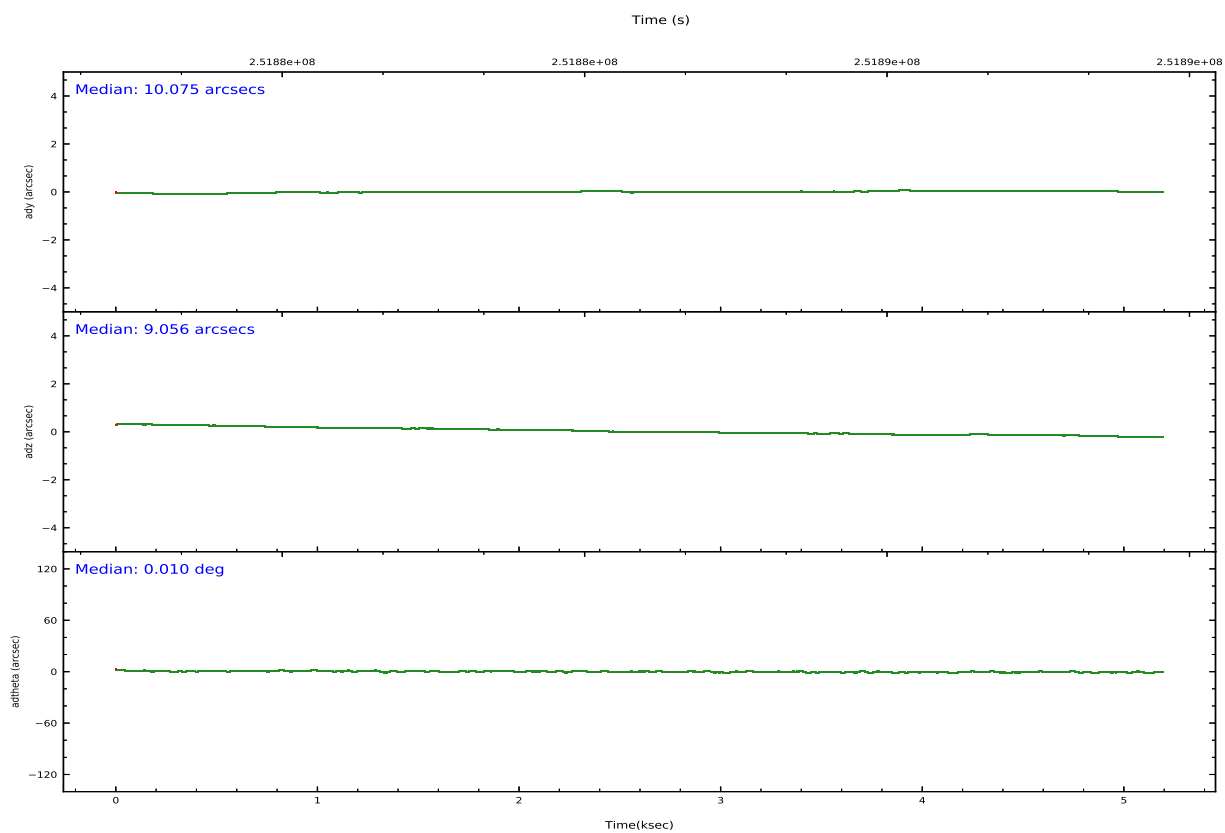
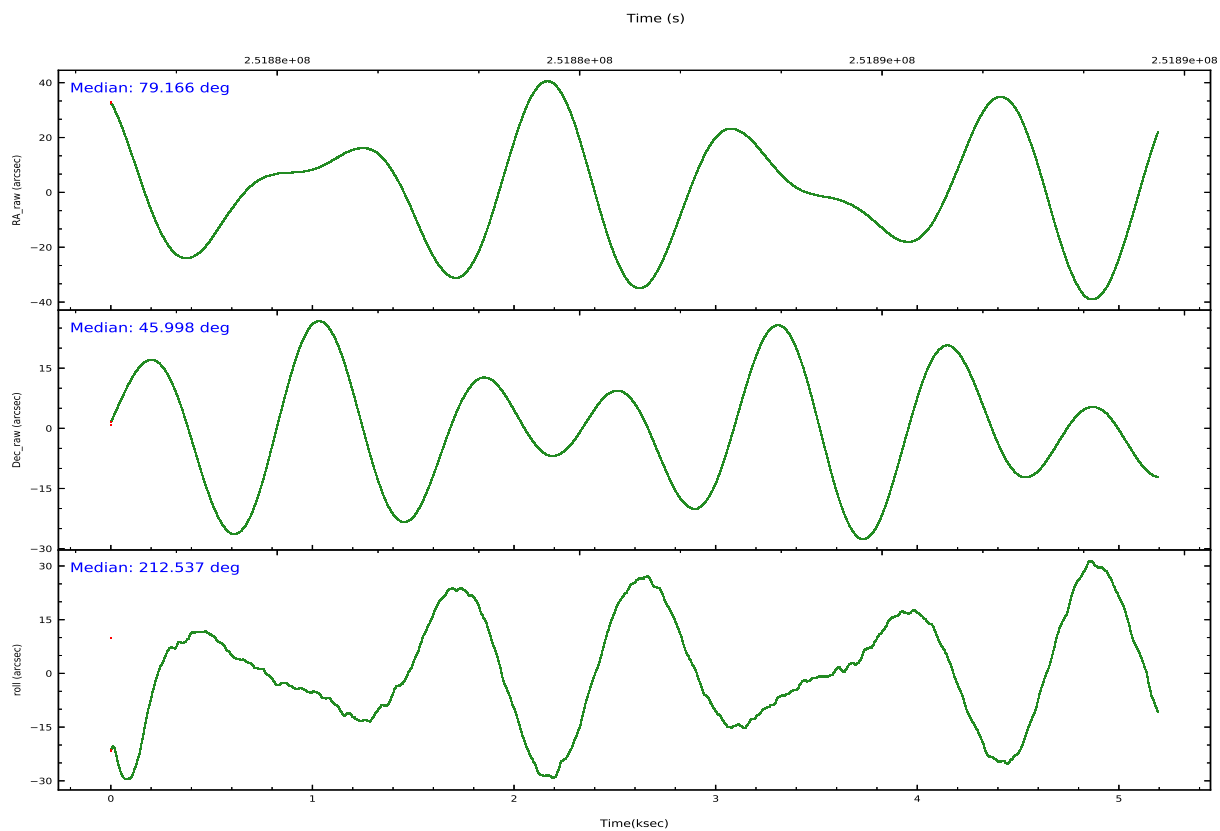
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | HRC | HRC |
| Detector | HRC-I | HRC-I |
| Grating | NONE | NONE |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 79.183766 | 79.167738561428 |
| [deg] Pointing Dec | 46.021619 | 46.001131466331 |
| [deg] Pointing Roll | 212.640297 | 212.53717740254 |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 |
| [mm] SIM defocus | 0 | 0.001426264420575141 |
| [mm] SIM translation stage pos | 114.985494 | 114.9972389474497 |
| [mm] SIM translation stage offset | 12 | 11.98824994415183 |
| [s] Observation start time (MET) | 251881870.184000 | 251881493.78912 |
| Observation start date | 2005-12-25T07:10:06 | 2005-12-25T07:04:53 |
| [s] Observation end time (MET) | 251886870.184000 | 251887003.67688 |
| Observation end date | 2005-12-25T08:33:26 | 2005-12-25T08:36:43 |

| Parameter | Planned | Actual |
|-----------------------|-----------|---------|
| Obspar version number | 8 | 8 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |

2.3 Aspect



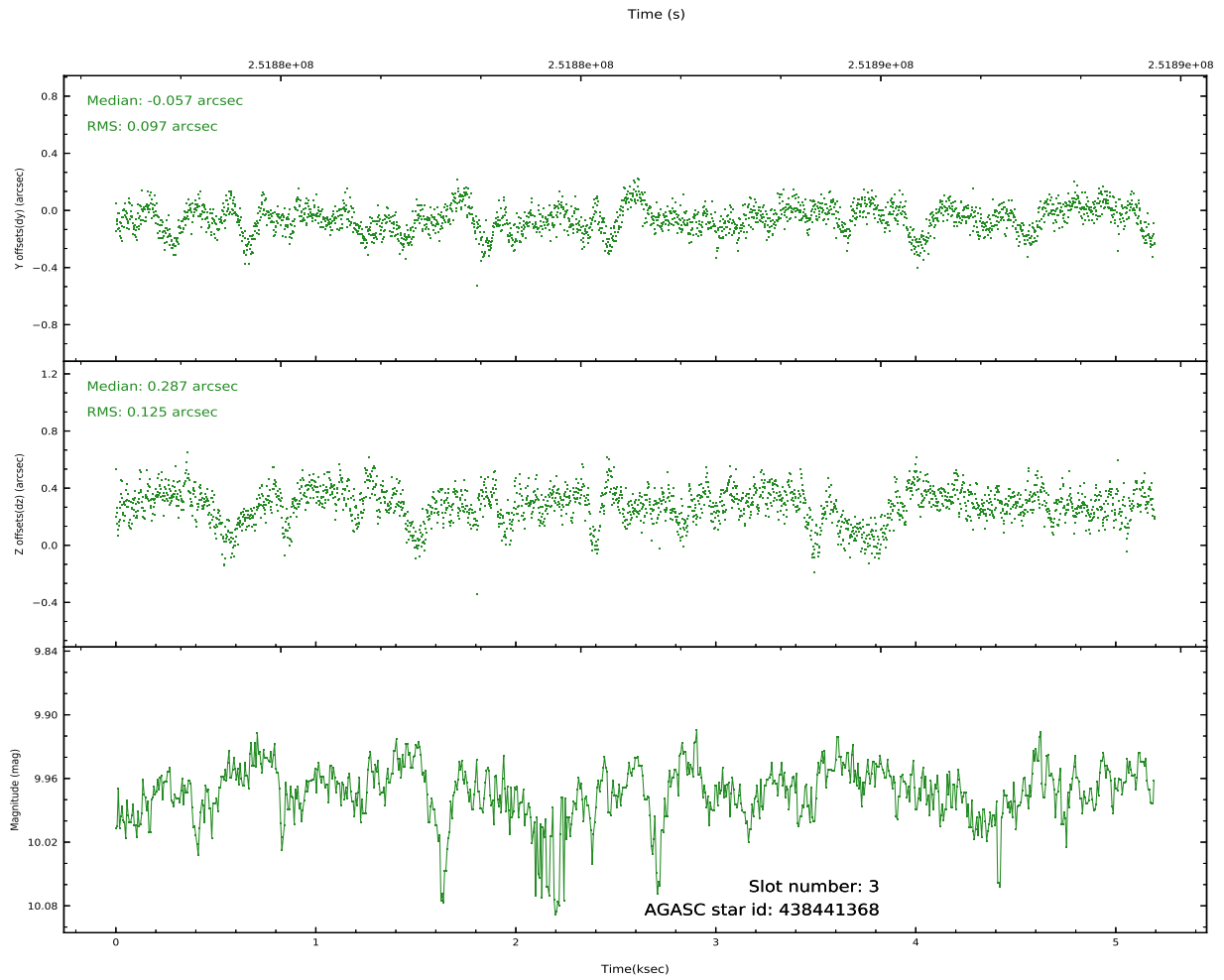
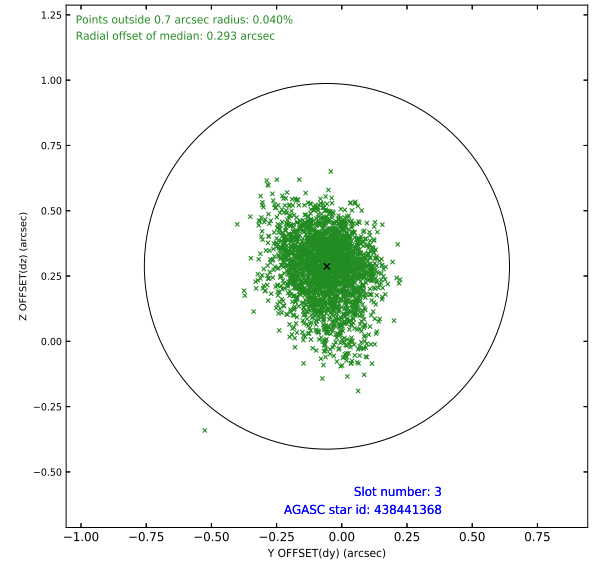
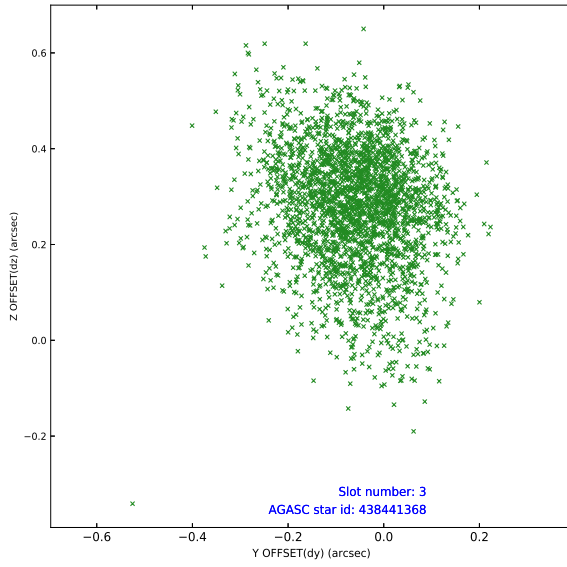


Slot Statistics

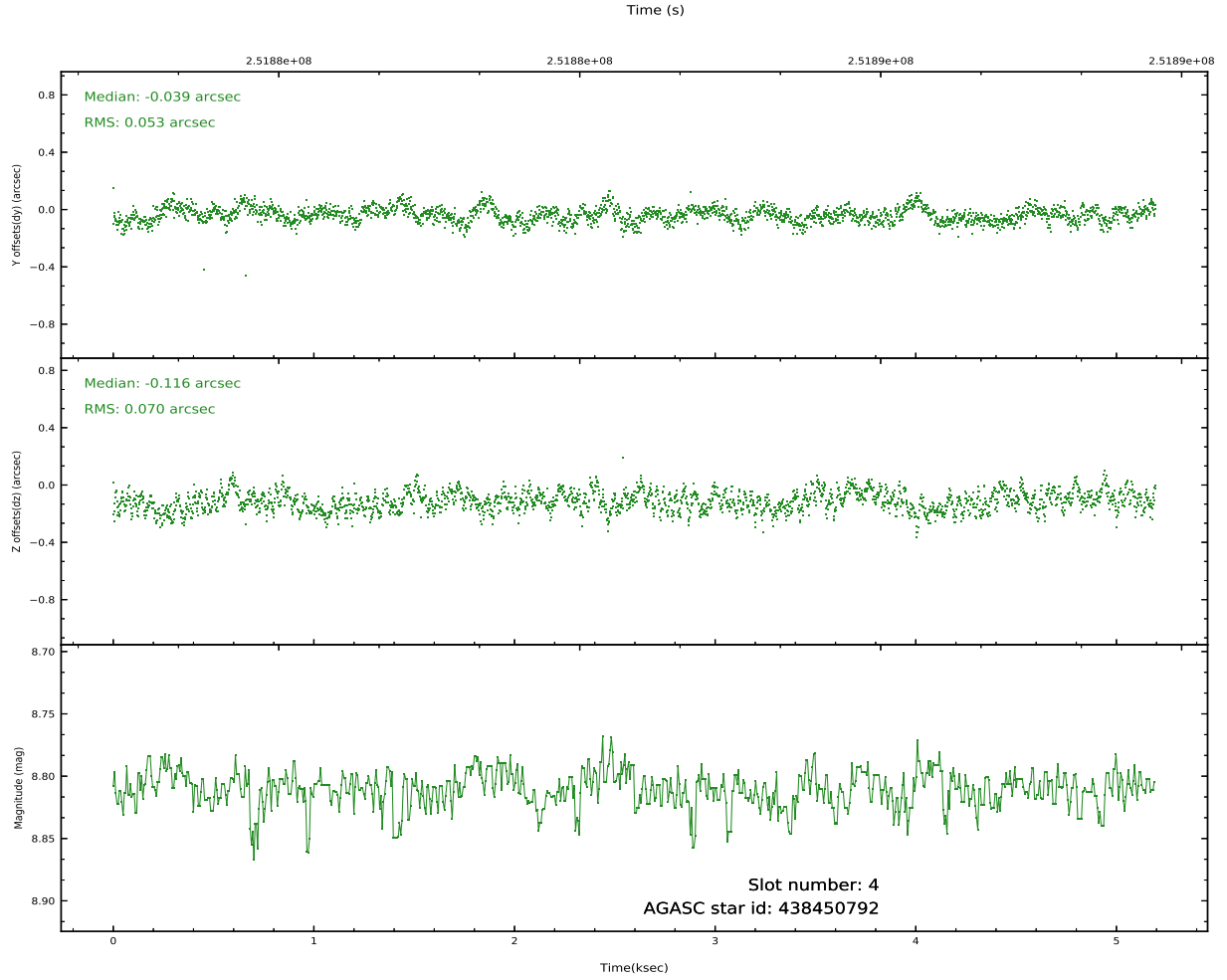
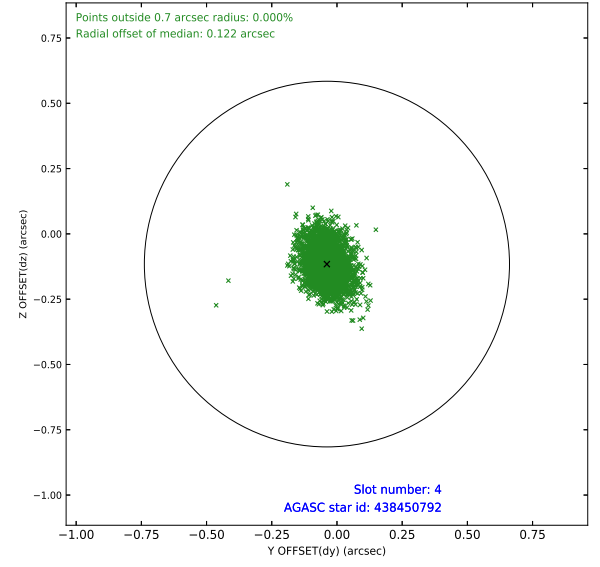
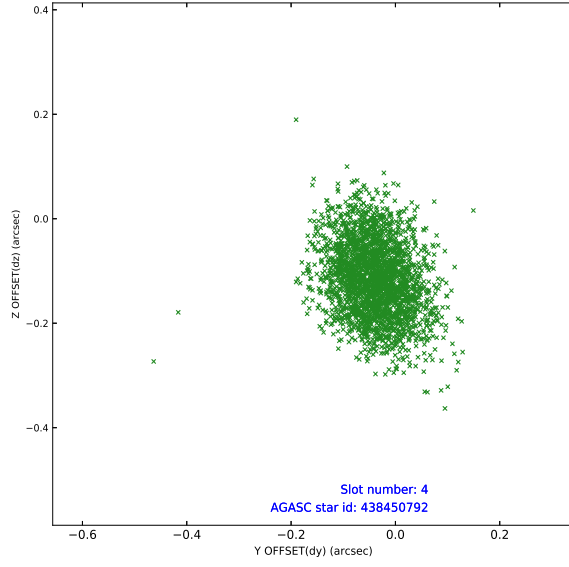
| pt | status | used | id | mag | n_pts | frac_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mea |
|----|--------|------|-----------|------|-------|----------|--------|--------|-------|-------|-----------|-----------|----------|-------|
| 0 | FID | | HRC-I-1 | 6.96 | 1268 | 1.000 | -0.115 | 0.253 | 0.009 | 0.014 | 0.000000 | 0.000000 | -765.42 | -1051 |
| 1 | FID | | HRC-I-2 | 7.03 | 1268 | 1.000 | 0.126 | -0.012 | 0.008 | 0.014 | 0.000000 | 0.000000 | 846.15 | -1053 |
| 2 | FID | | HRC-I-3 | 7.05 | 1268 | 1.000 | 0.108 | -0.328 | 0.008 | 0.014 | 0.000000 | 0.000000 | -1193.64 | 1252 |
| 3 | GUIDE | used | 438441368 | 9.97 | 2531 | 1.000 | -0.057 | 0.287 | 0.165 | 0.284 | 78.646413 | 46.420494 | 345.92 | -1931 |
| 4 | GUIDE | used | 438450792 | 8.81 | 2533 | 1.000 | -0.039 | -0.116 | 0.093 | 0.149 | 78.654240 | 46.382628 | 404.36 | -1806 |
| 5 | GUIDE | used | 440150048 | 7.14 | 2535 | 1.000 | -0.008 | -0.149 | 0.069 | 0.117 | 79.112838 | 46.416060 | -617.72 | -1290 |
| 6 | GUIDE | used | 440163960 | 8.88 | 2535 | 1.000 | -0.005 | 0.010 | 0.077 | 0.130 | 79.298370 | 45.827072 | 134.65 | 744 |
| 7 | GUIDE | used | 440164960 | 8.31 | 2534 | 1.000 | 0.111 | -0.021 | 0.071 | 0.114 | 79.132526 | 46.140947 | -124.12 | -429 |

2.4 Star Slots

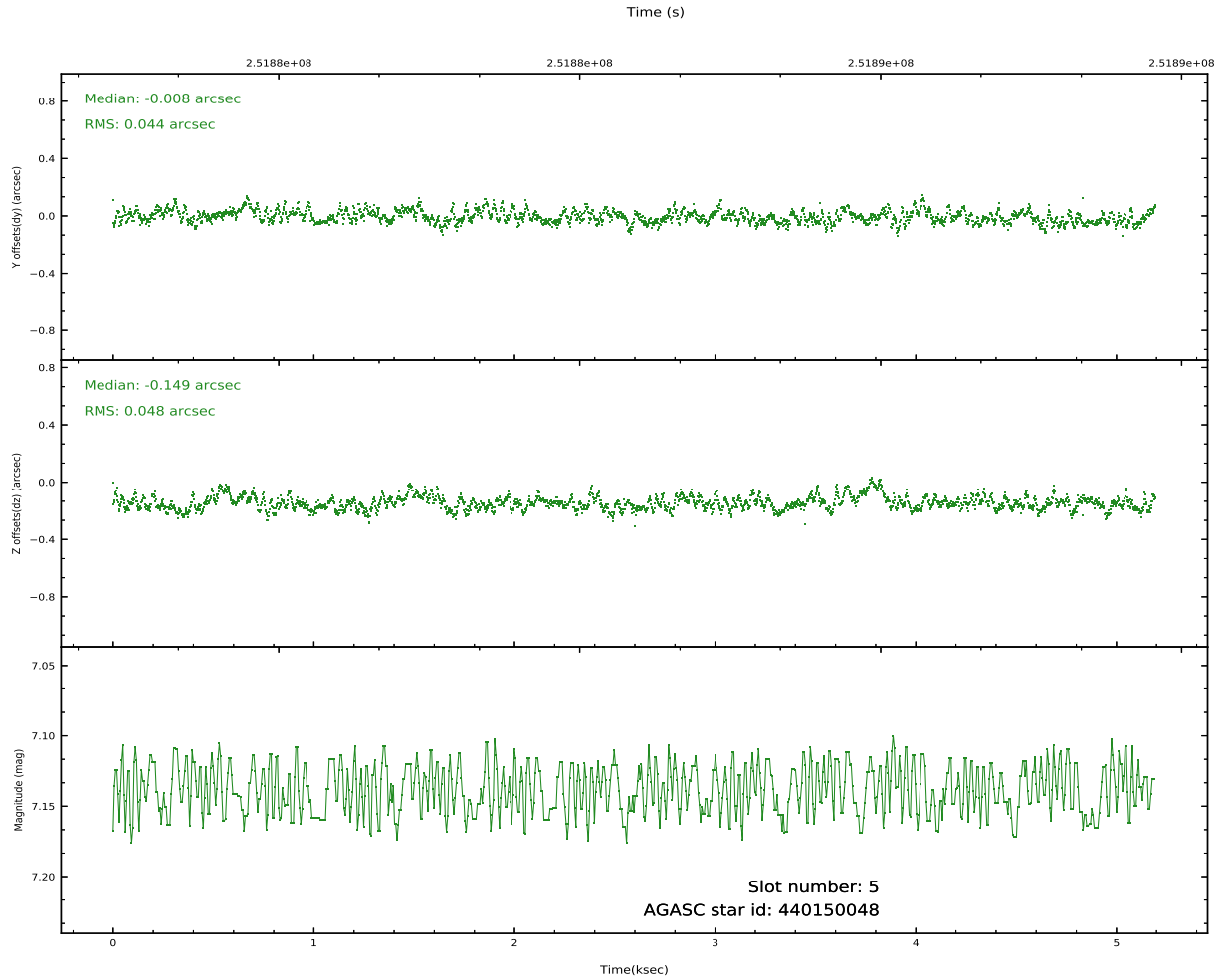
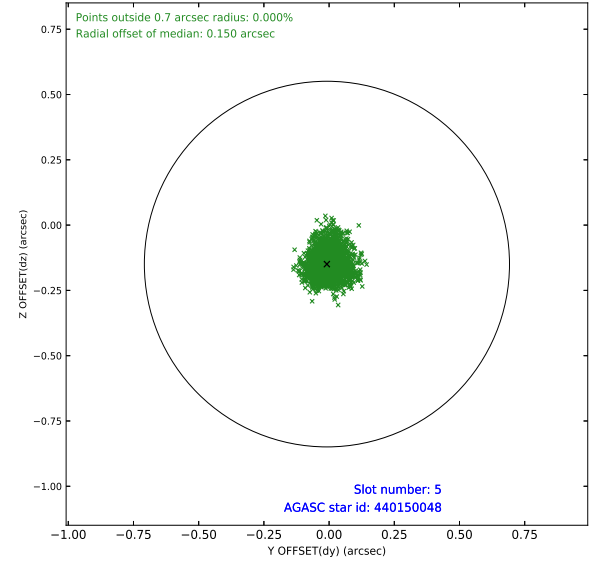
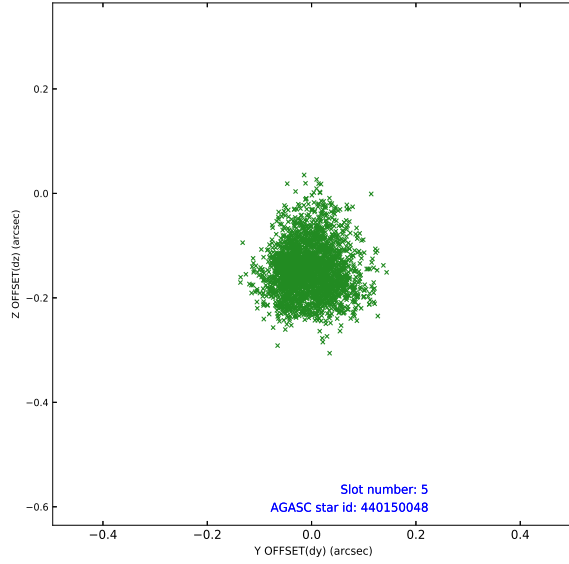
2.4.1 Slot 3



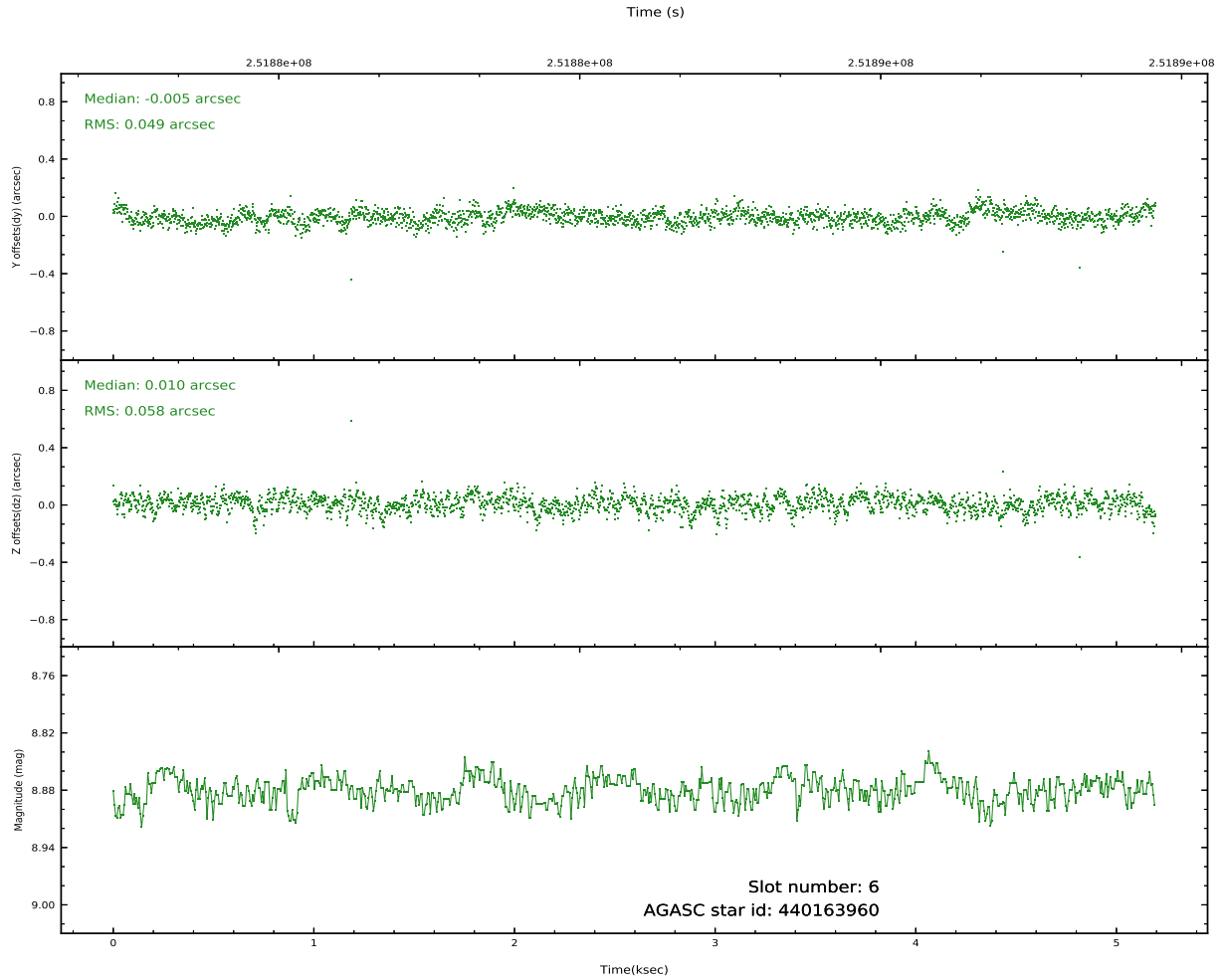
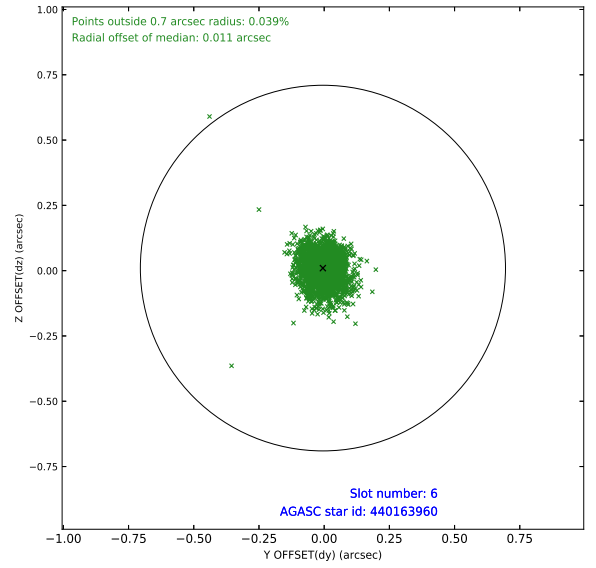
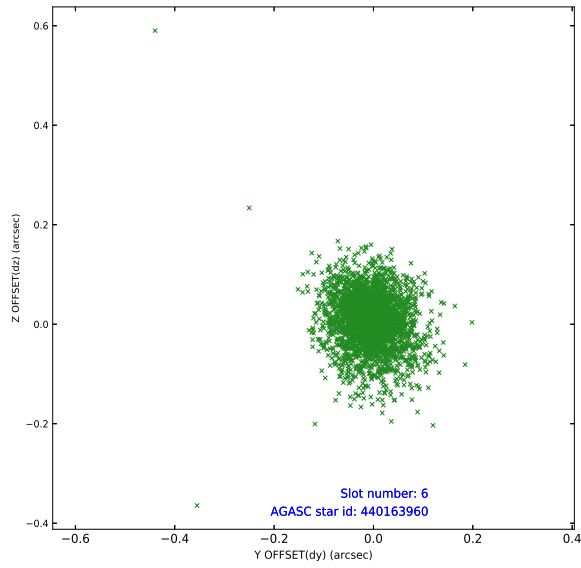
2.4.2 Slot 4



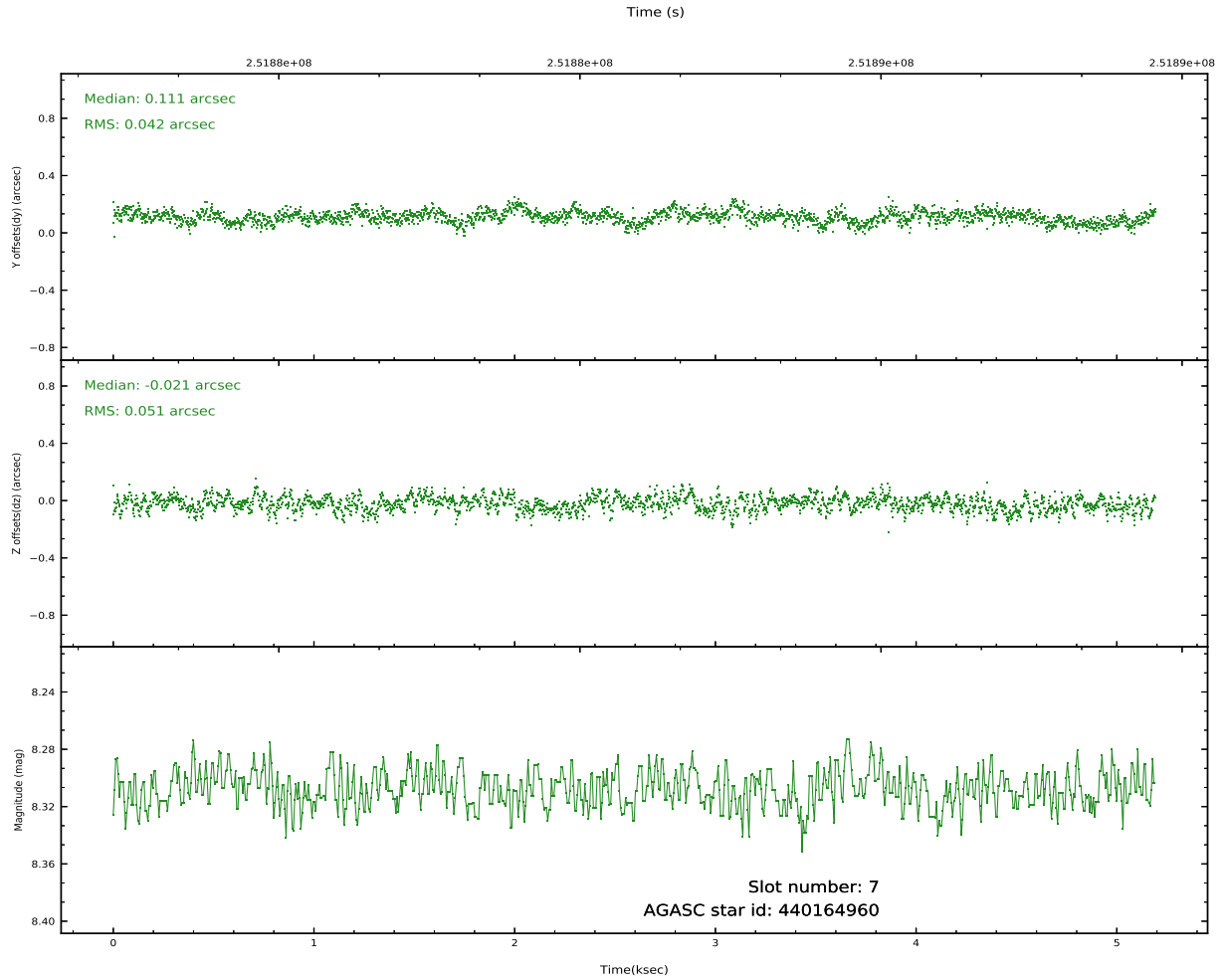
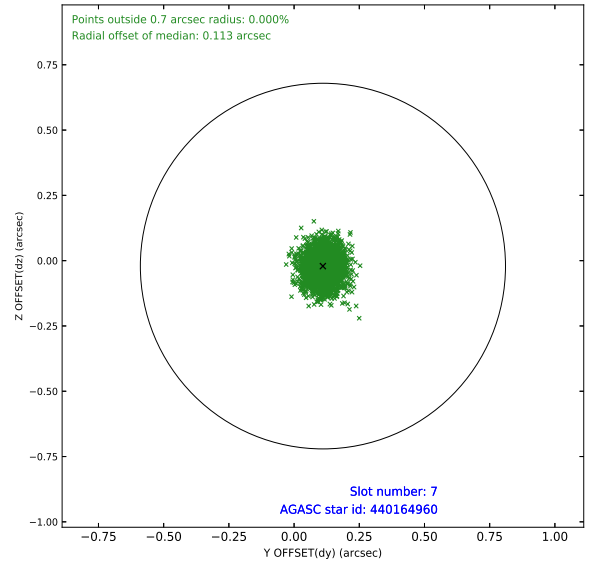
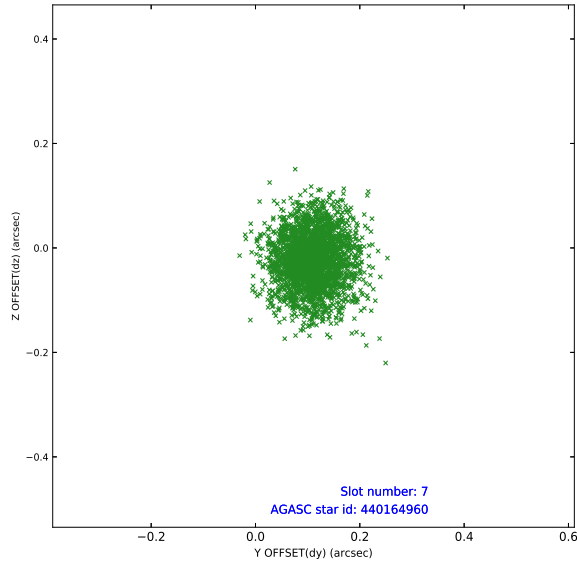
2.4.3 Slot 5



2.4.4 Slot 6

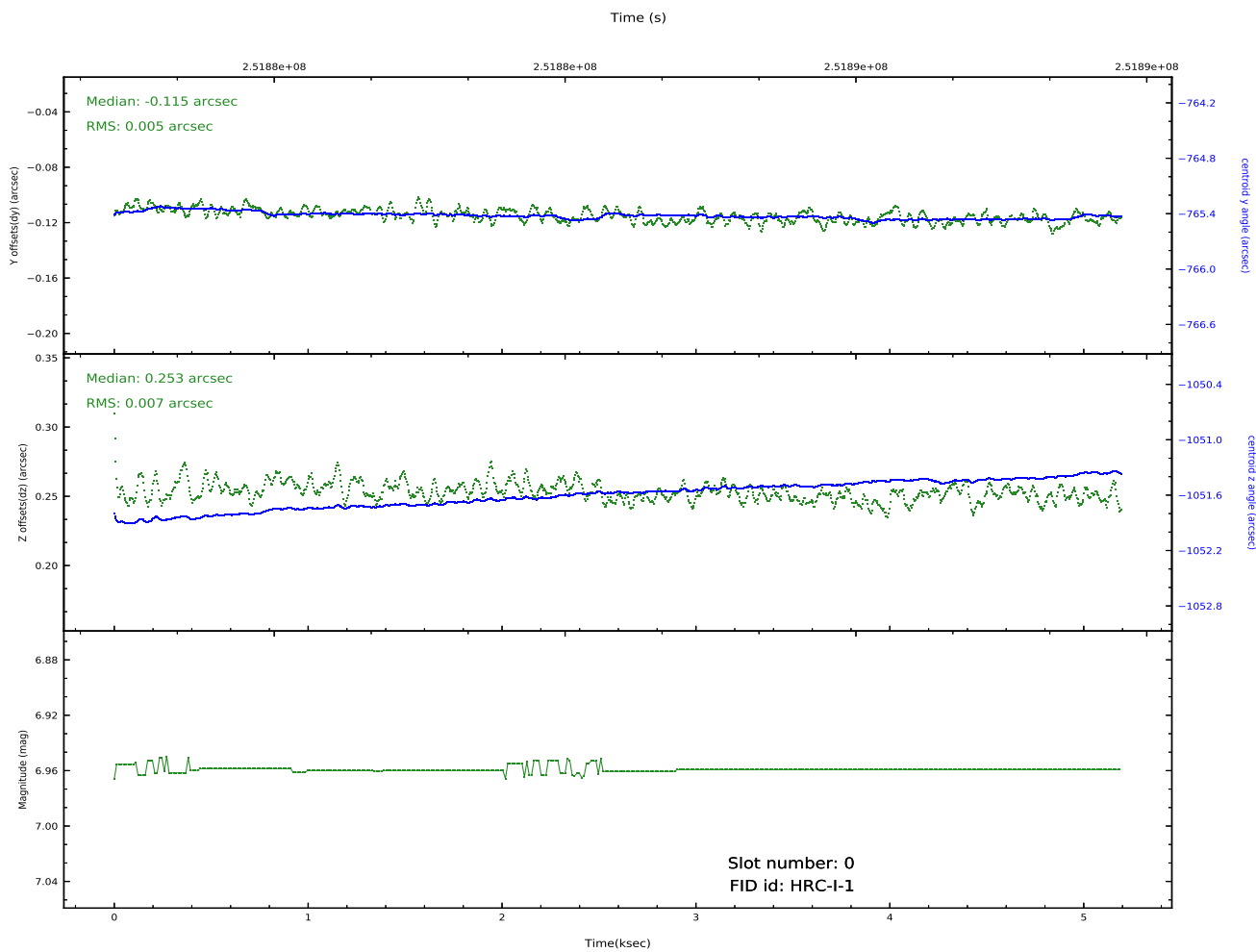
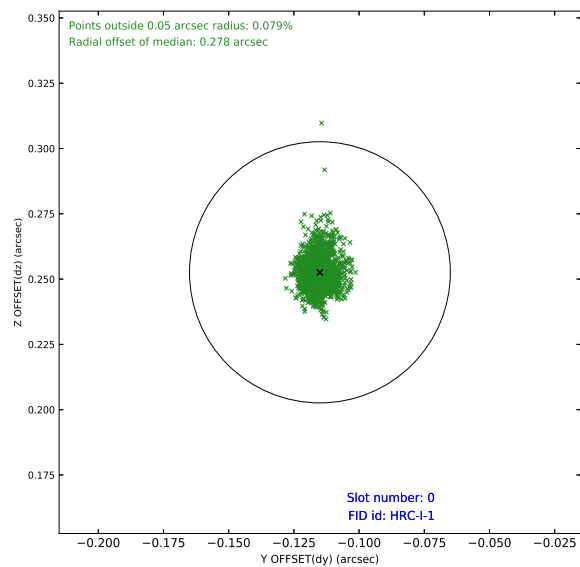
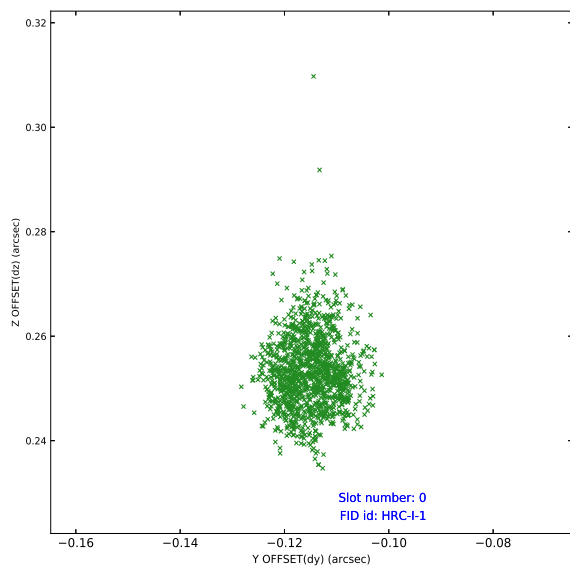


2.4.5 Slot 7

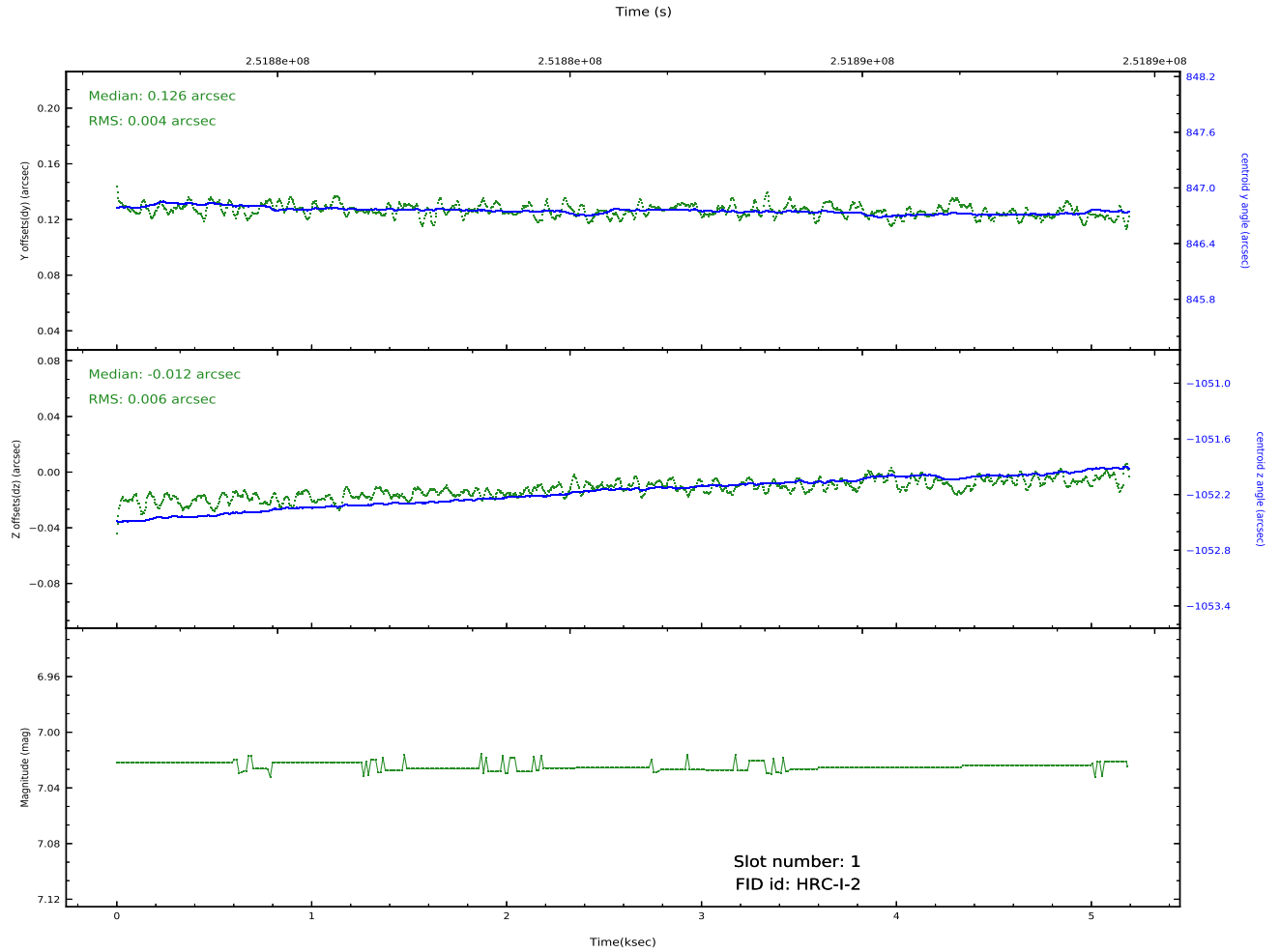
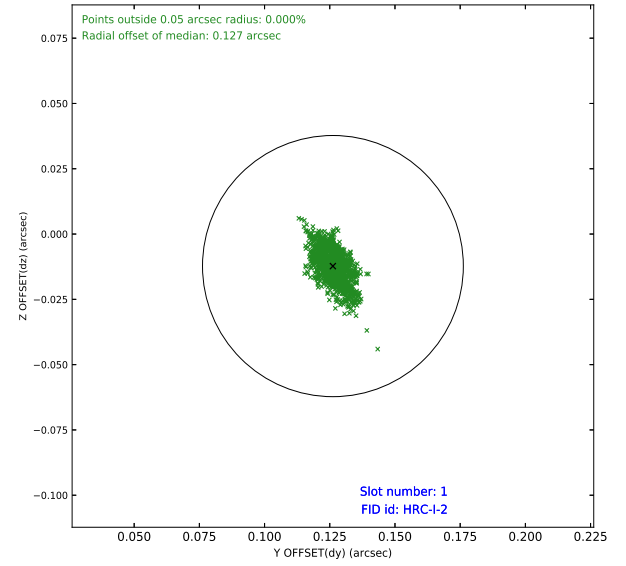
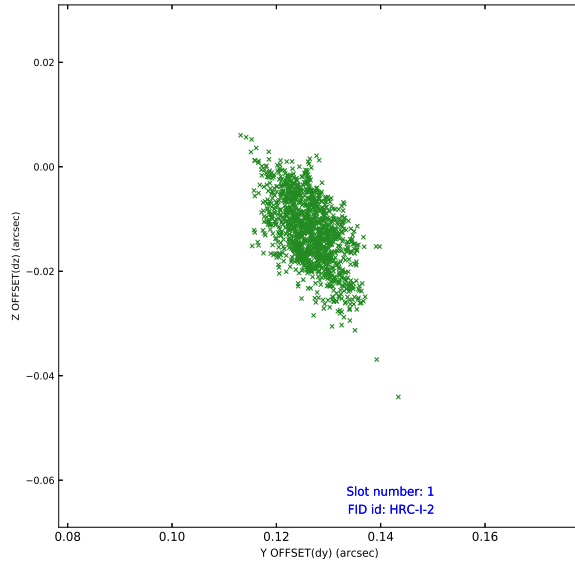


2.5 FID Slots

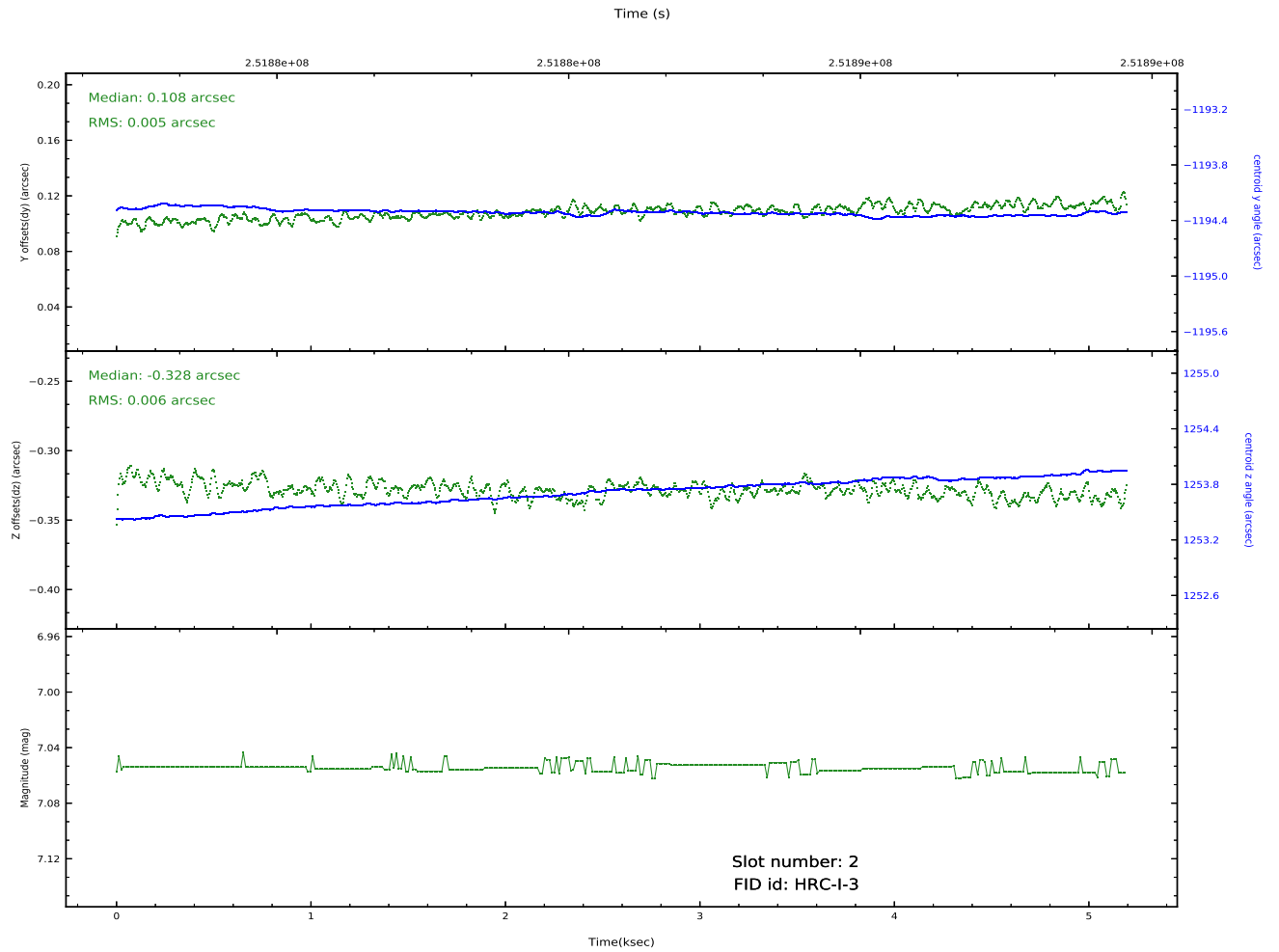
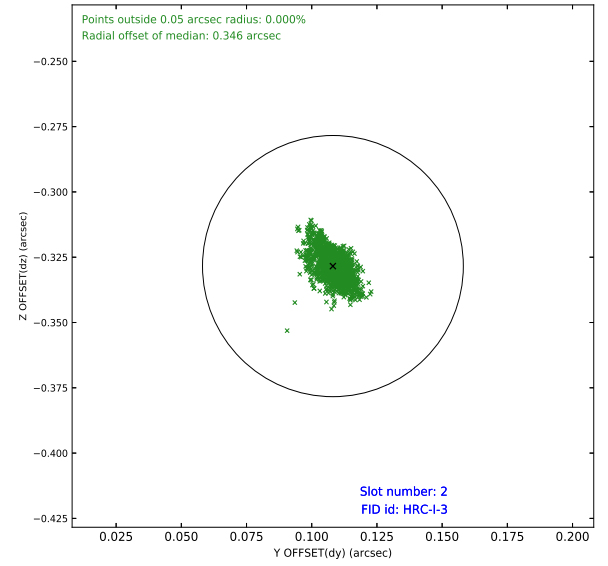
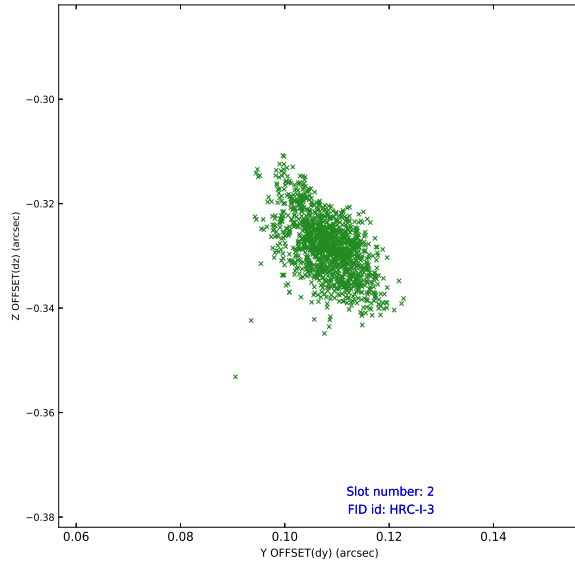
2.5.1 Slot 0



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) | 2020.10.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.193931 |

A.2 Comments