

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6093 - L2 Version 5
Chandra X-Ray Center

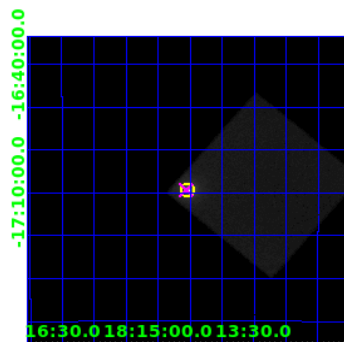
L2 Processing Date : Oct 6 2020

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1 Front

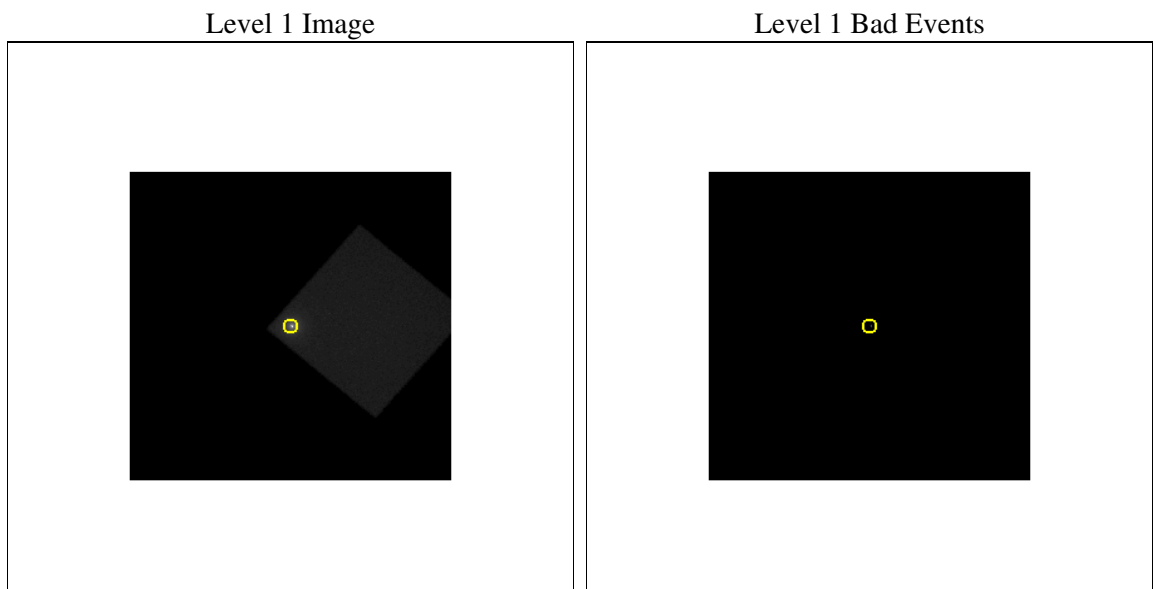
| | | |
|----------|---|---------------------------------------|
| seq_num | 900394 | Sequence number |
| obs_id | 6093 | Observation id |
| title | Filling in the X-ray Halo around GX13+1 | Proposal title |
| observer | Randall Smith | Principal investigator |
| object | GX13+1 | Source name |
| ra_targ | 273.631667 | Observer's specified target RA [deg] |
| dec_targ | -17.157417 | Observer's specified target Dec [deg] |
| ra_nom | 273.63562541784 | Nominal RA [deg] |
| dec_nom | -17.156285694549 | Nominal Dec [deg] |
| roll_nom | 85.44928475789 | Nominal Roll [deg] |
| revision | 5 | Processing version of data |
| ontime | 9134.8004131913 | [s] |
| livetime | 7868.9252547085 | Ontime multiplied by DTCOR |
| l2events | 1049632 | 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 | 9000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.9.1 | Processing system revision | ontime | 9134.8004131913 | [s] |
| caldsver | 4.9.2 | | l1events | 1468819 | Number of level 1 events |
| date | 2020-10-06T15:36:33 | Date and time of file creation | | | |
| revision | 5 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

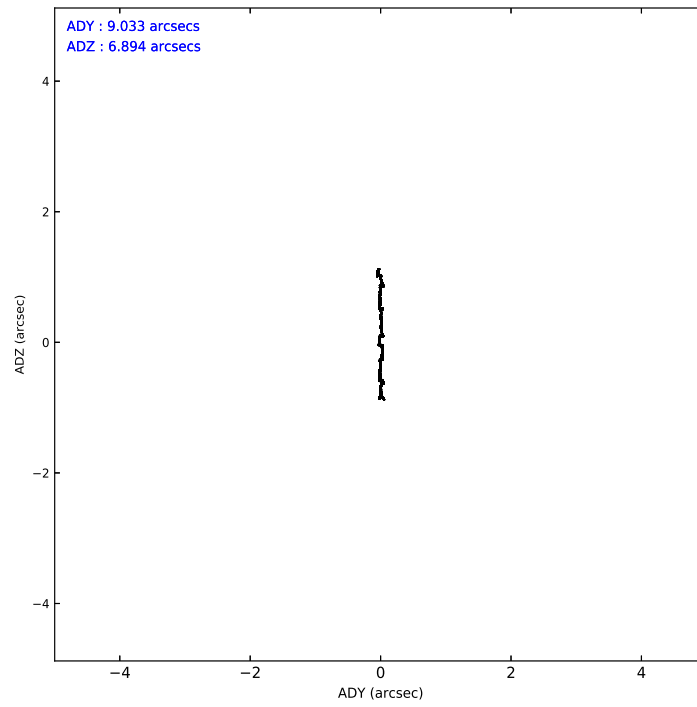
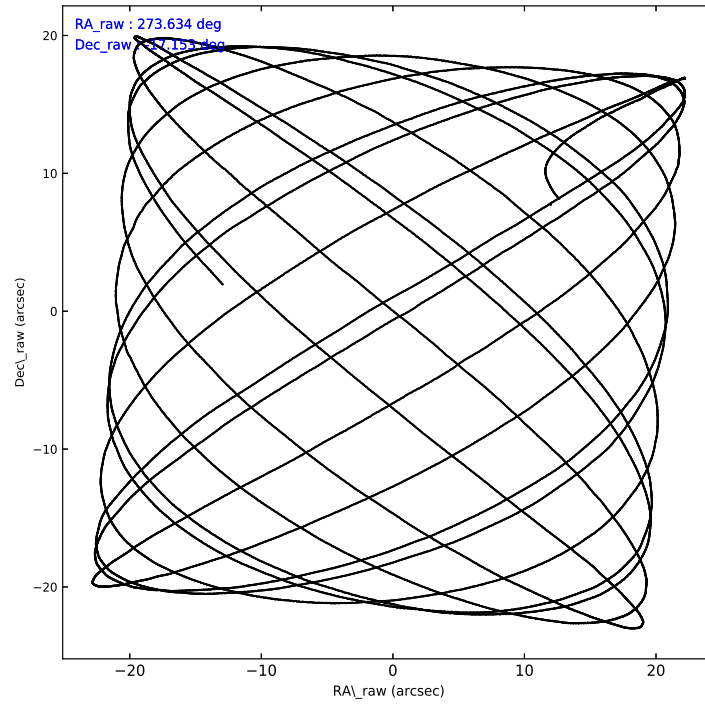
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 1468819 |
| rejected events | 155771 |
| rejected % | 10% |

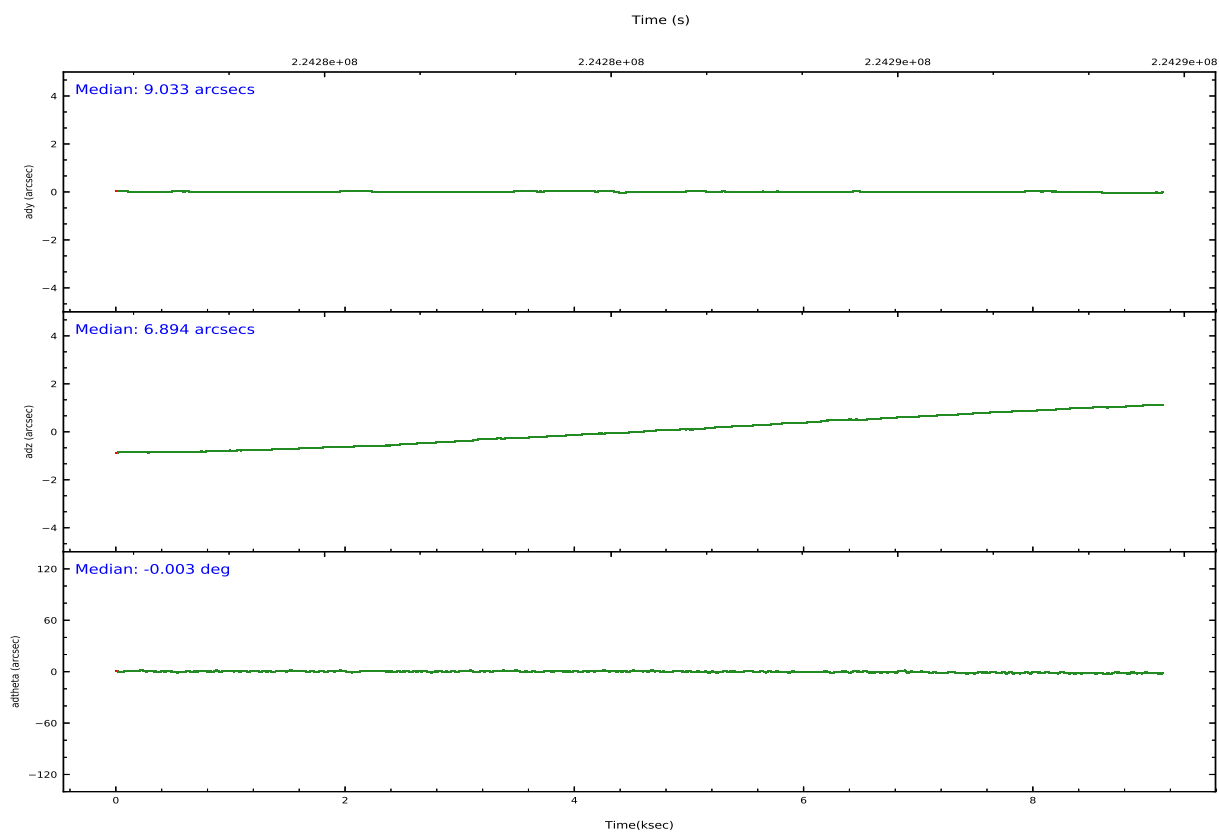
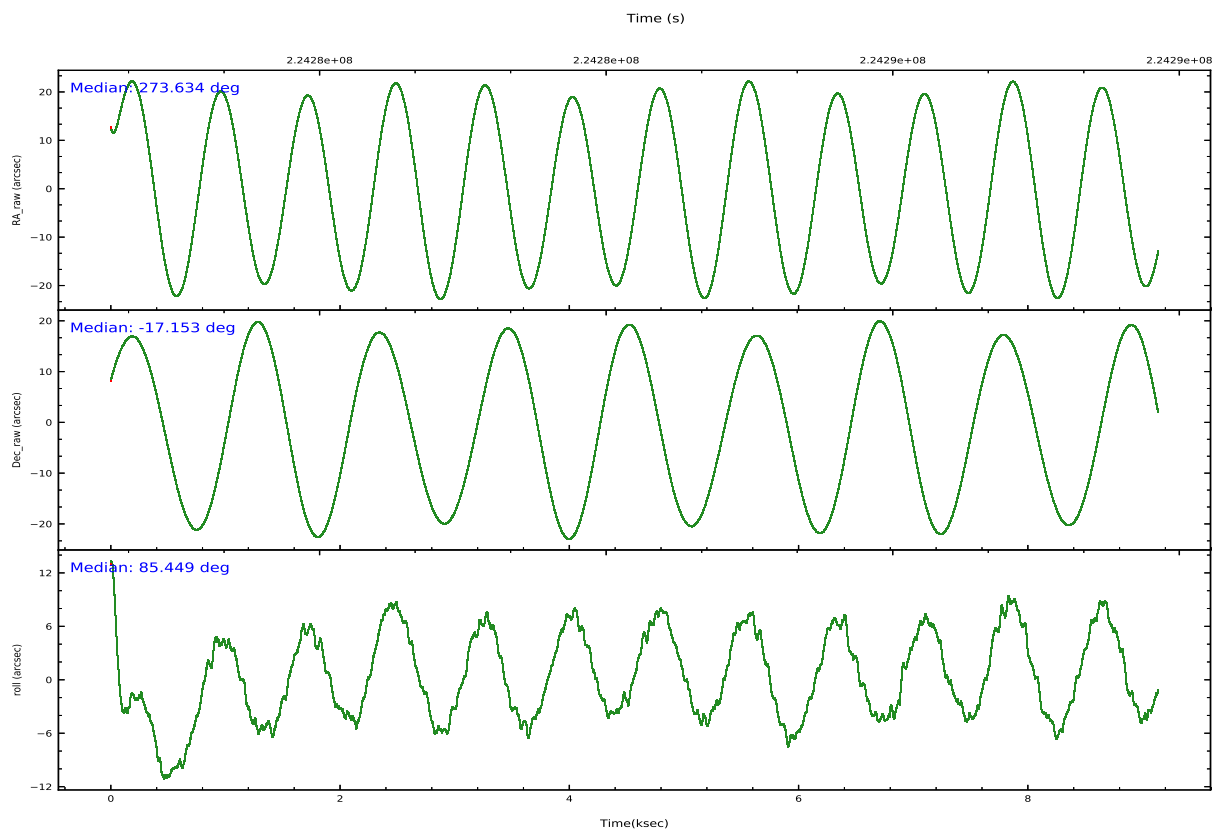
2.2 Compared Parameters

| 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 | 273.646447 | 273.63562541784 |
| [deg] Pointing Dec | -17.177904 | -17.156285694549 |
| [deg] Pointing Roll | 85.554489 | 85.44928475789 |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 |
| [mm] SIM defocus | 0 | 0.001426264420575141 |
| [mm] SIM translation stage pos | 76.985494 | 76.97827727256096 |
| [mm] SIM translation stage offset | 50 | 50.0072116190406 |
| [s] Observation start time (MET) | 224280814.184000 | 224279508.40093 |
| Observation start date | 2005-02-08T20:12:30 | 2005-02-08T19:51:48 |
| [s] Observation end time (MET) | 224289814.184000 | 224290054.62641 |
| Observation end date | 2005-02-08T22:42:30 | 2005-02-08T22:47:34 |

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

2.3 Aspect



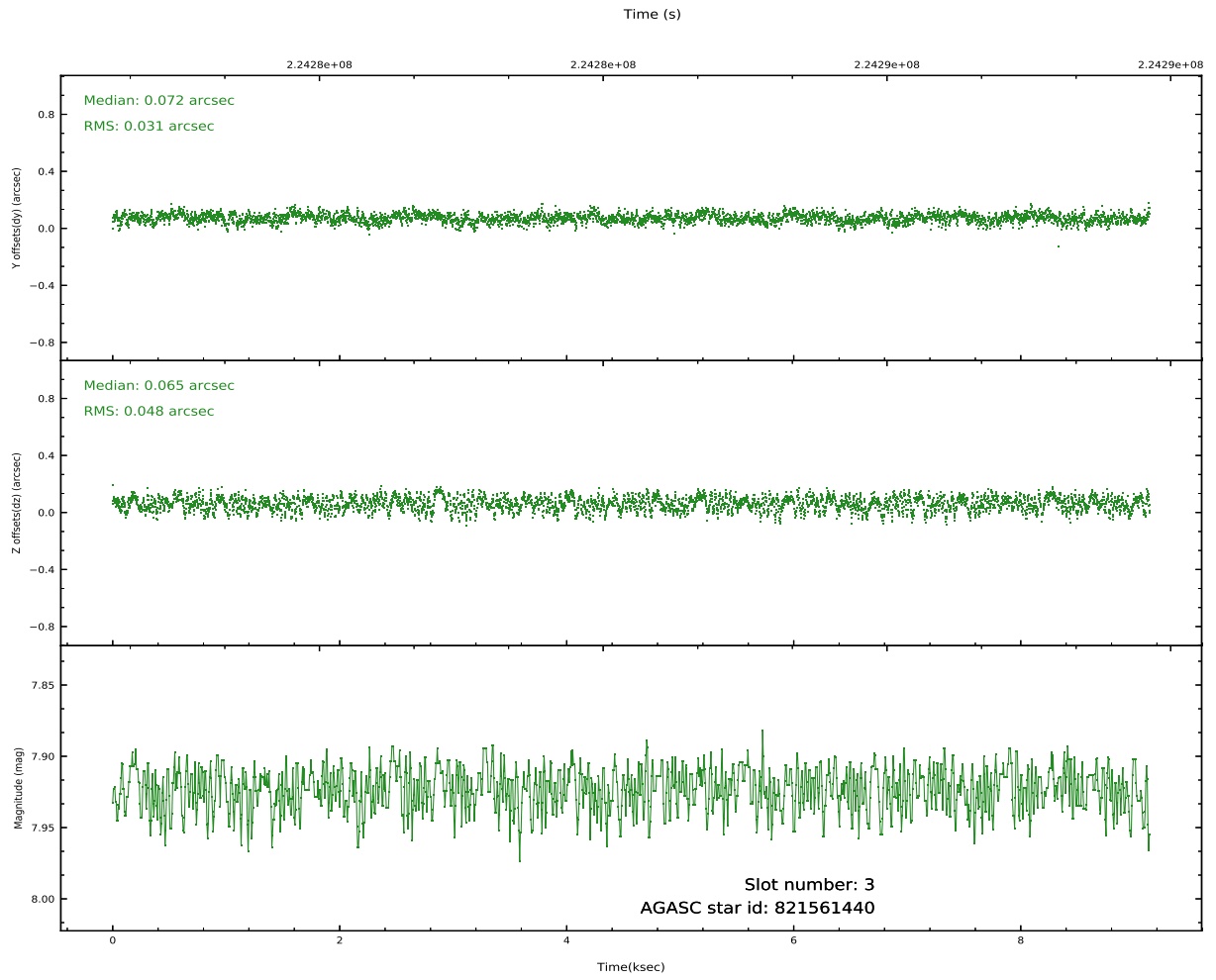
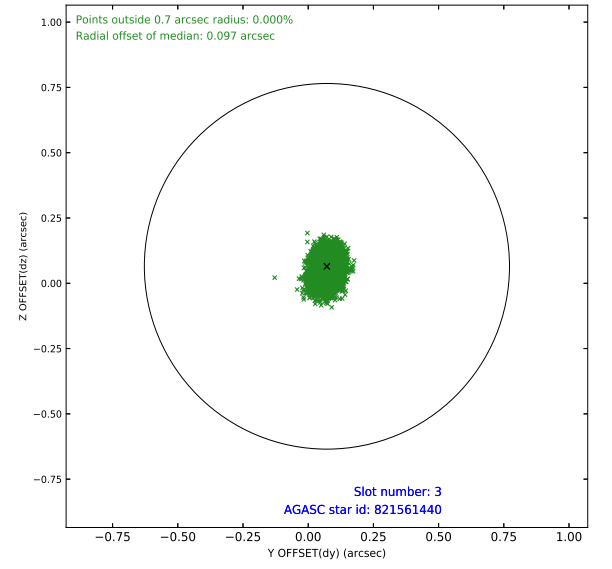
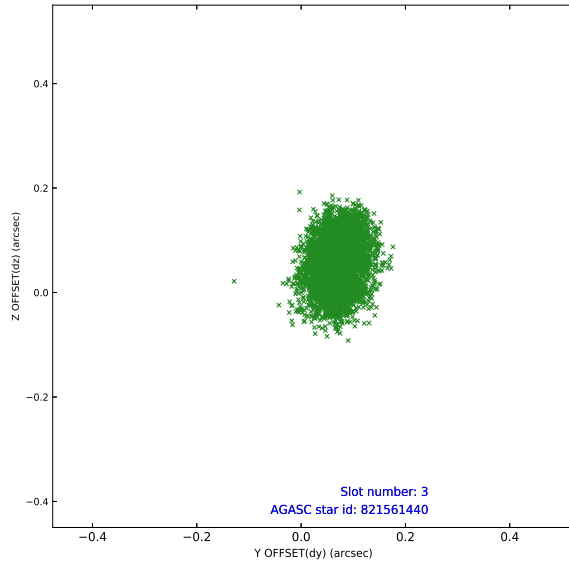


Slot Statistics

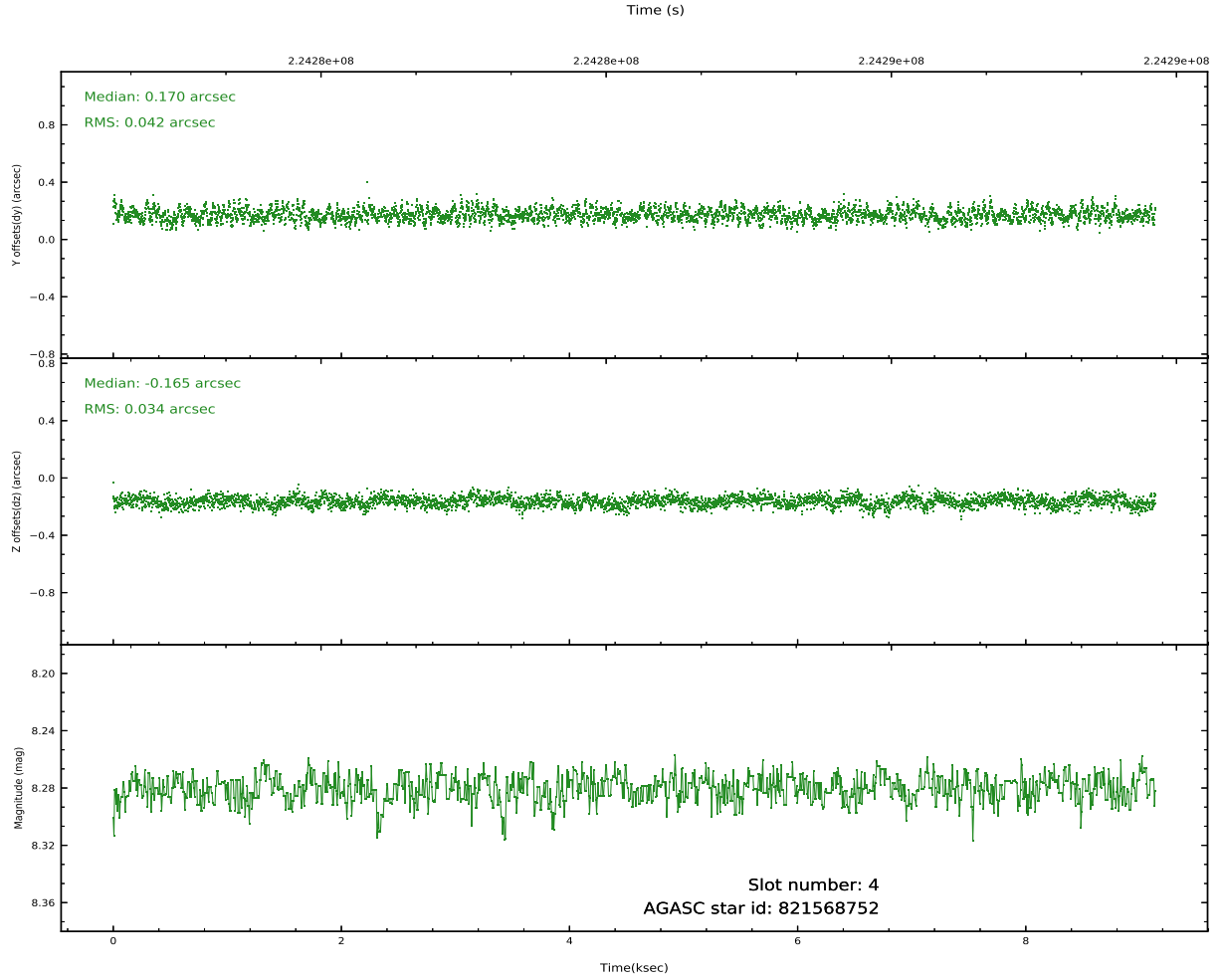
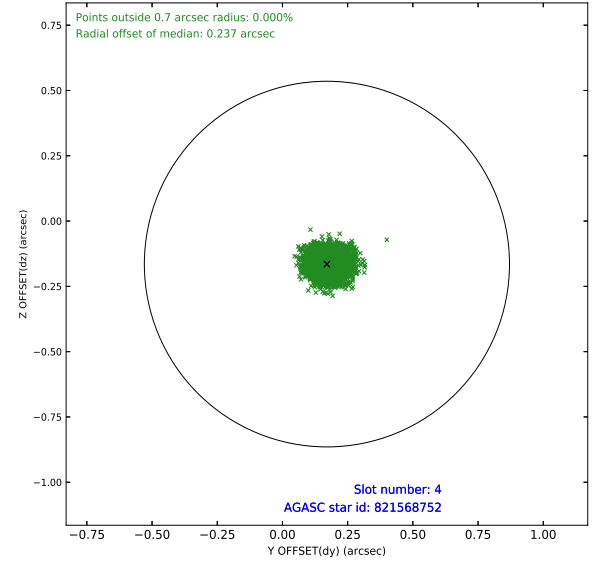
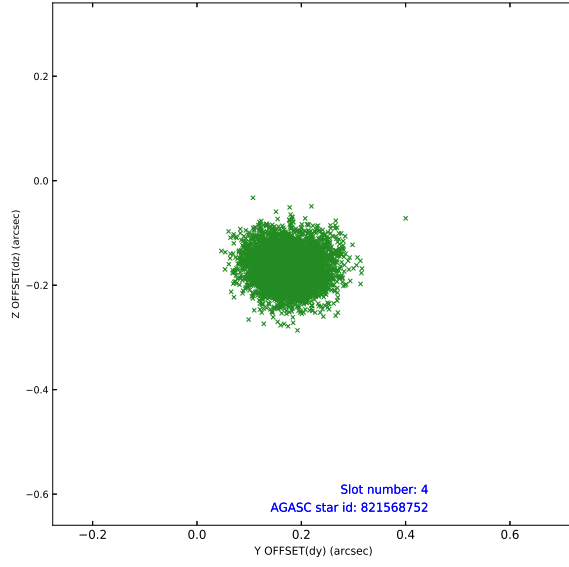
| pt | status | used | id | mag | n_pts | frac_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mea |
|----|--------|------|-----------|------|-------|----------|--------|--------|-------|-------|------------|------------|----------|-------|
| 0 | FID | | HRC-I-1 | 6.98 | 2229 | 1.000 | -0.190 | -0.473 | 0.008 | 0.013 | 0.000000 | 0.000000 | -762.83 | -272 |
| 1 | FID | | HRC-I-2 | 7.10 | 2229 | 1.000 | -0.143 | -0.126 | 0.014 | 0.030 | 0.000000 | 0.000000 | 846.60 | -268 |
| 2 | FID | | HRC-I-4 | 6.93 | 2229 | 1.000 | 0.447 | 0.507 | 0.013 | 0.028 | 0.000000 | 0.000000 | 1277.59 | 2036 |
| 3 | GUIDE | used | 821561440 | 7.92 | 4458 | 1.000 | 0.072 | 0.065 | 0.062 | 0.099 | 273.991252 | -17.607934 | -1453.08 | -1299 |
| 4 | GUIDE | used | 821568752 | 8.28 | 4457 | 1.000 | 0.170 | -0.165 | 0.057 | 0.092 | 273.050073 | -17.733446 | -2156.63 | 1883 |
| 5 | GUIDE | used | 821570064 | 6.60 | 4458 | 1.000 | -0.030 | -0.189 | 0.038 | 0.059 | 273.185111 | -17.414521 | -975.26 | 1514 |
| 6 | GUIDE | used | 821707704 | 8.94 | 4457 | 1.000 | -0.233 | 0.265 | 0.074 | 0.117 | 274.330077 | -16.988328 | 858.20 | -2292 |
| 7 | GUIDE | used | 821035184 | 9.07 | 4456 | 1.000 | 0.020 | 0.027 | 0.072 | 0.116 | 273.815482 | -16.815826 | 1344.25 | -479 |

2.4 Star Slots

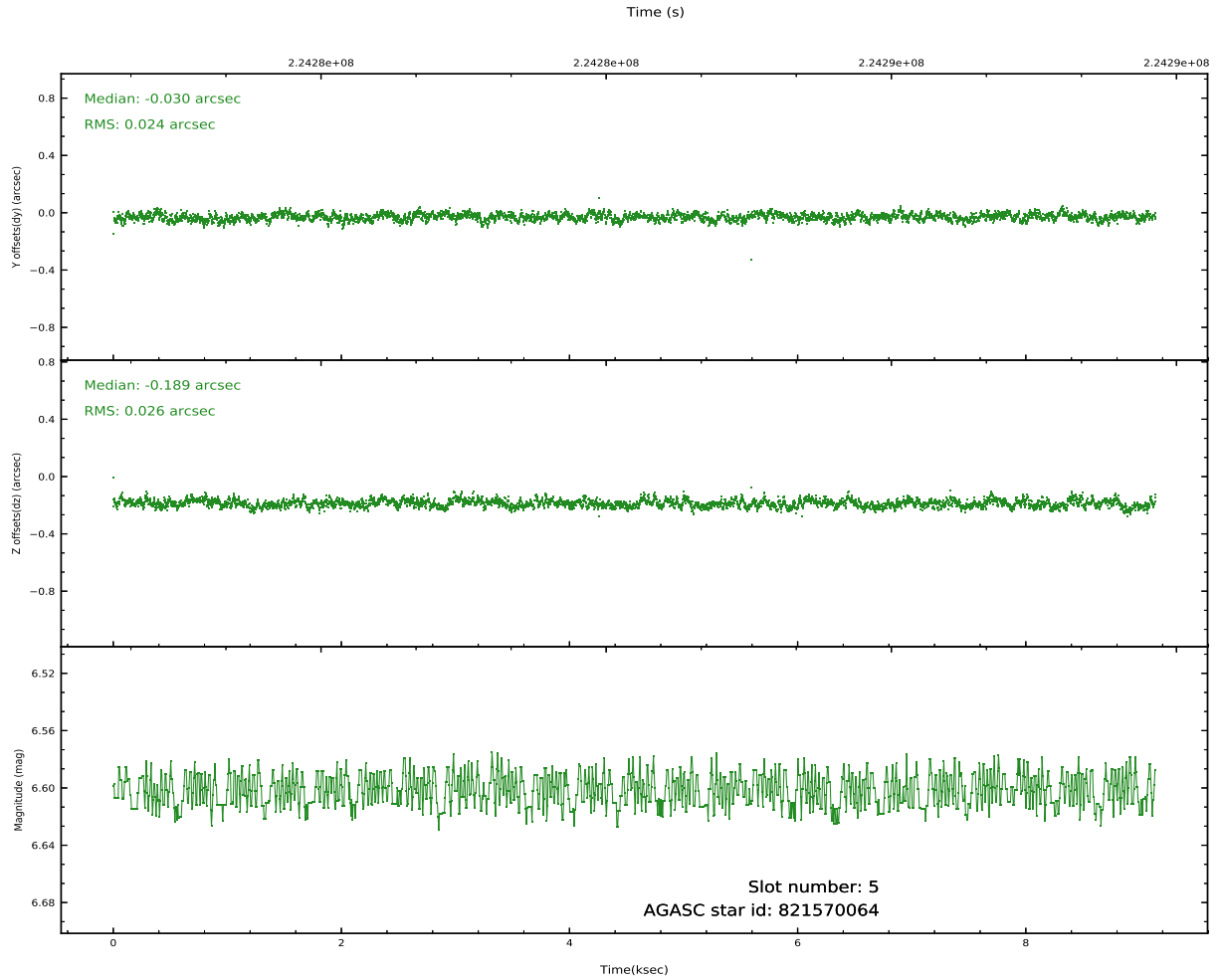
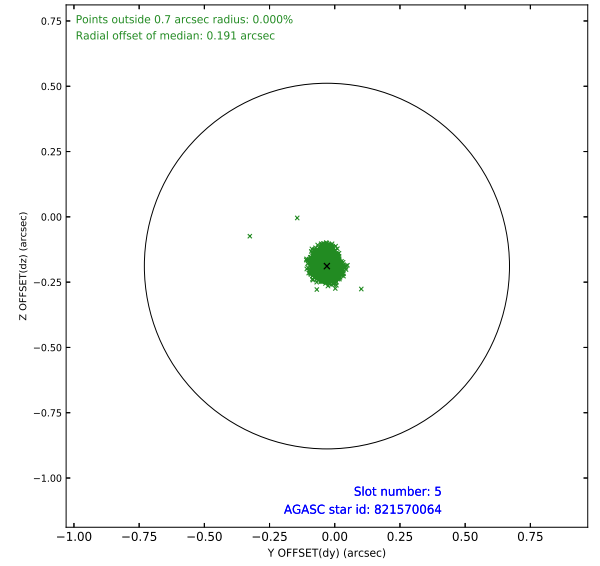
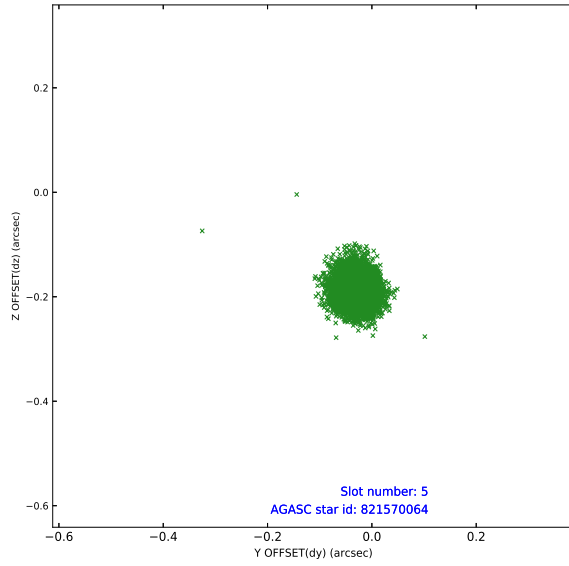
2.4.1 Slot 3



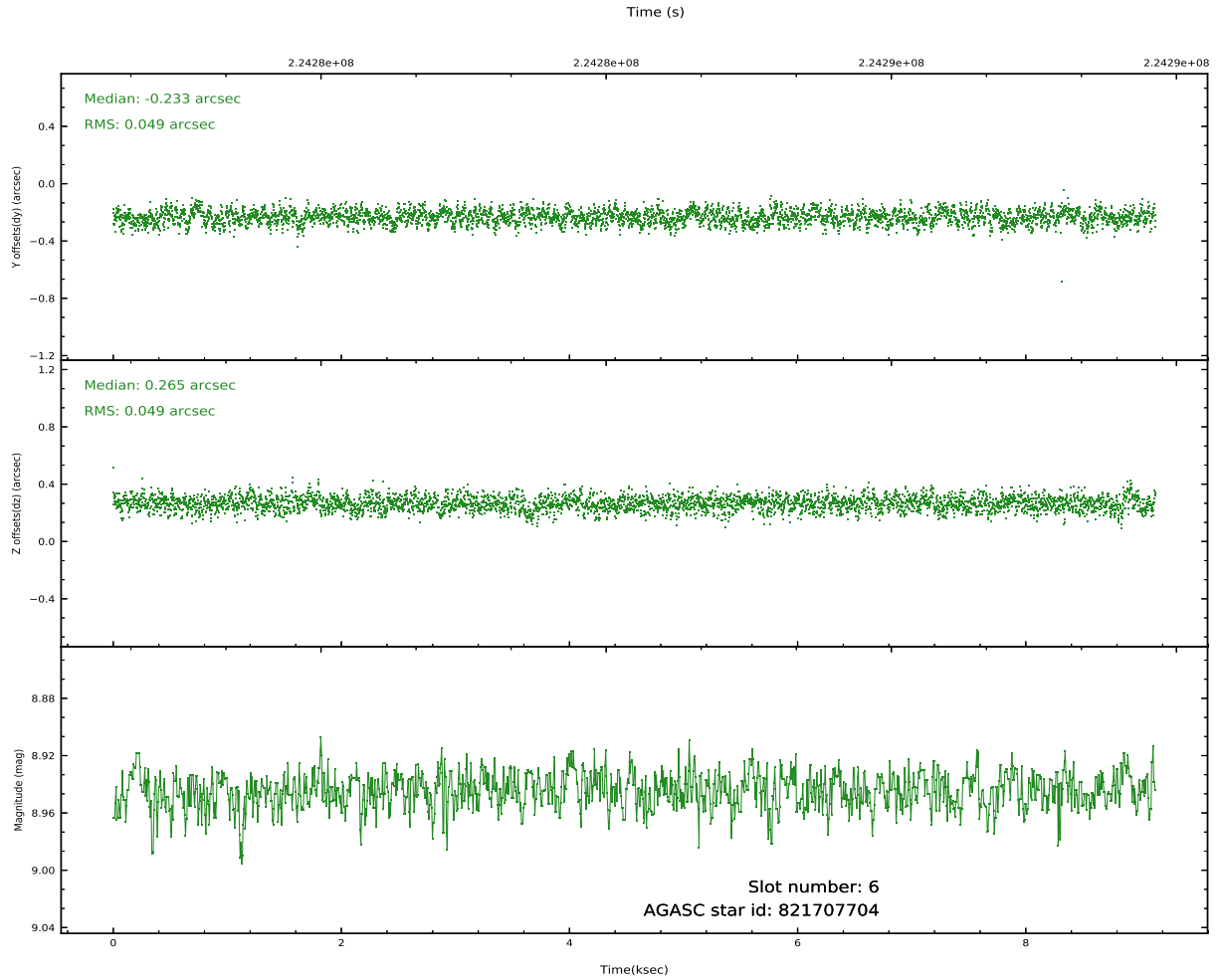
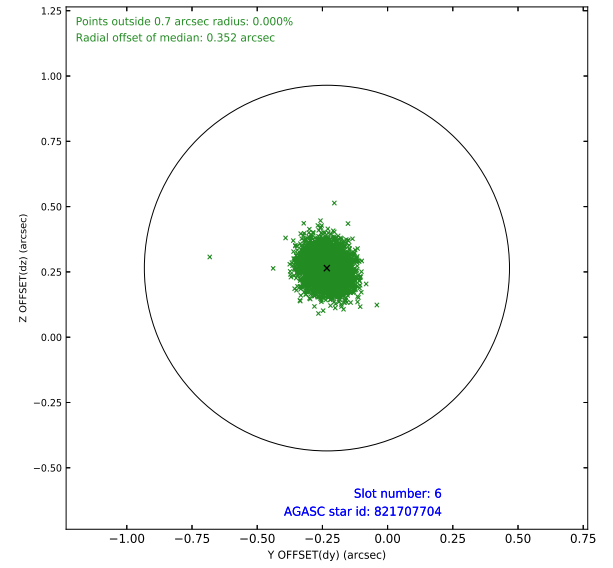
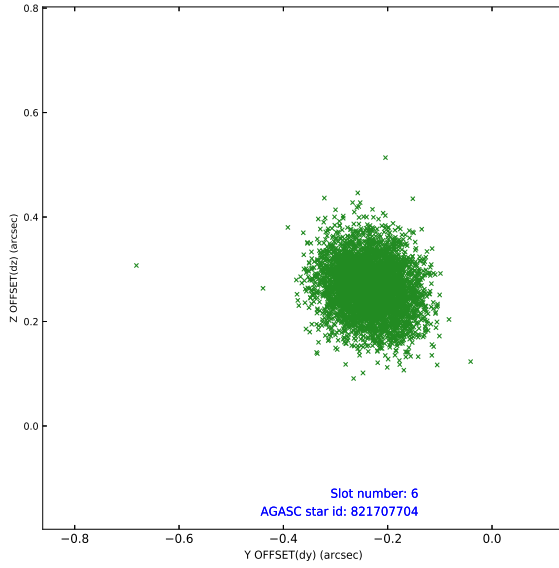
2.4.2 Slot 4



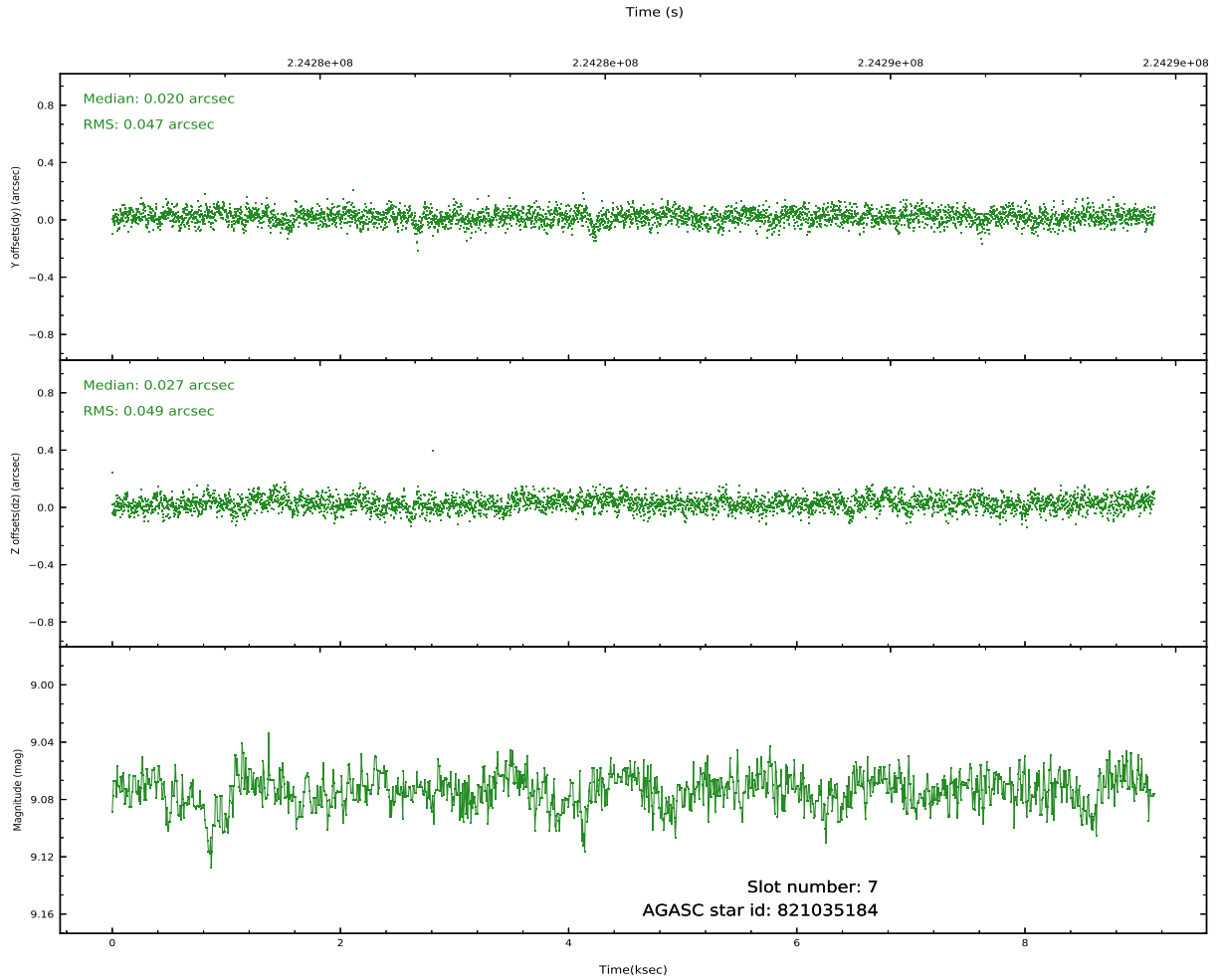
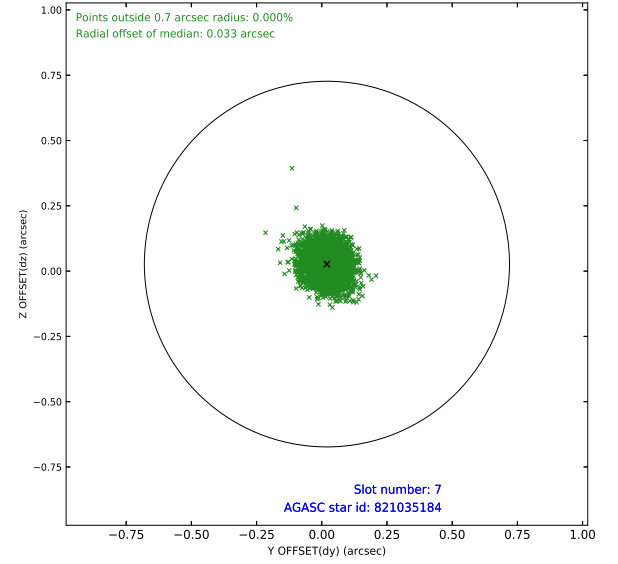
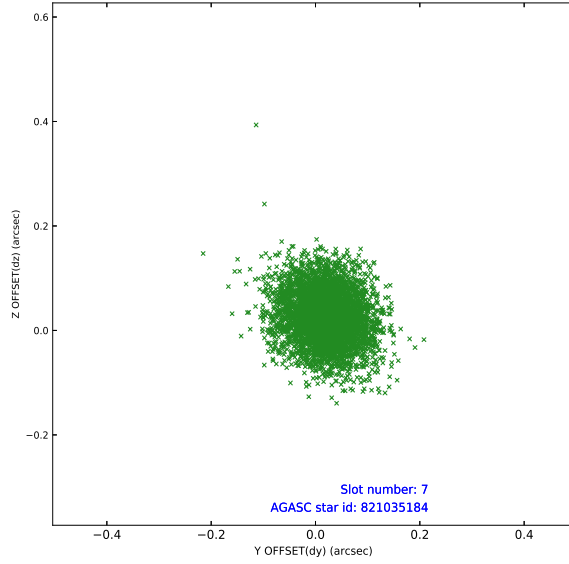
2.4.3 Slot 5



2.4.4 Slot 6

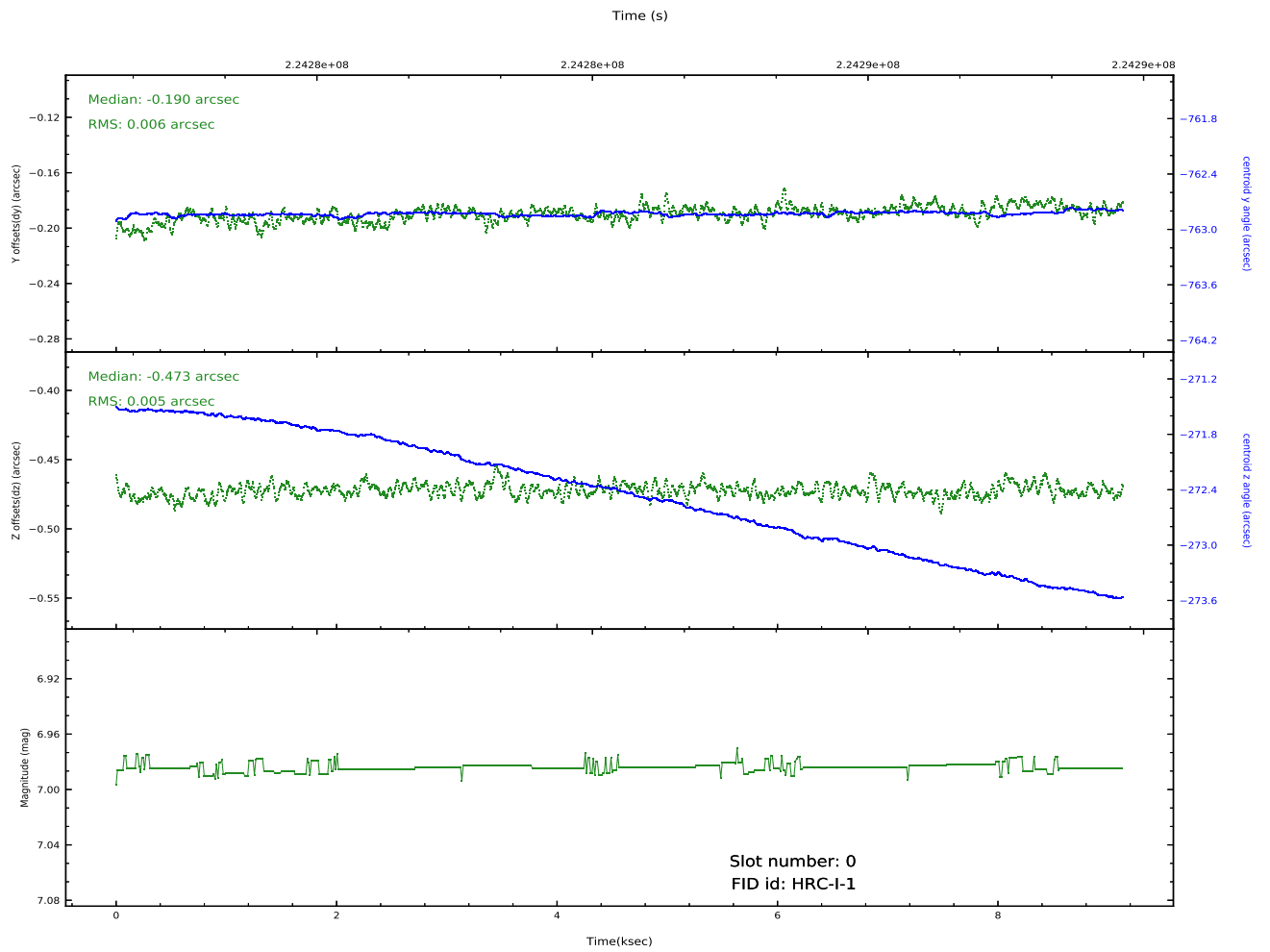
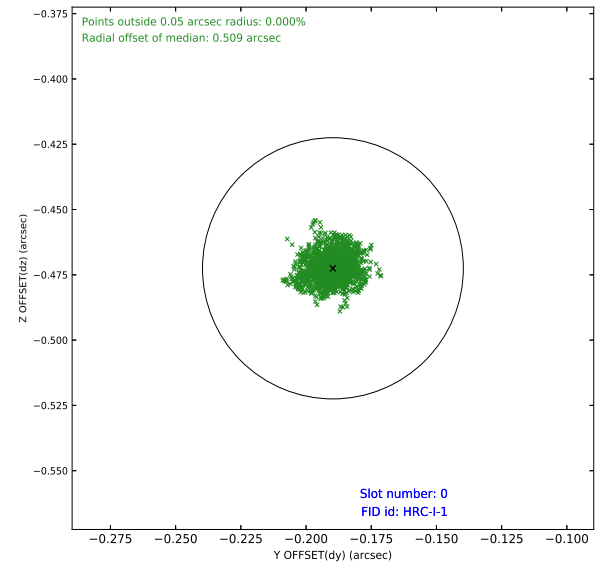
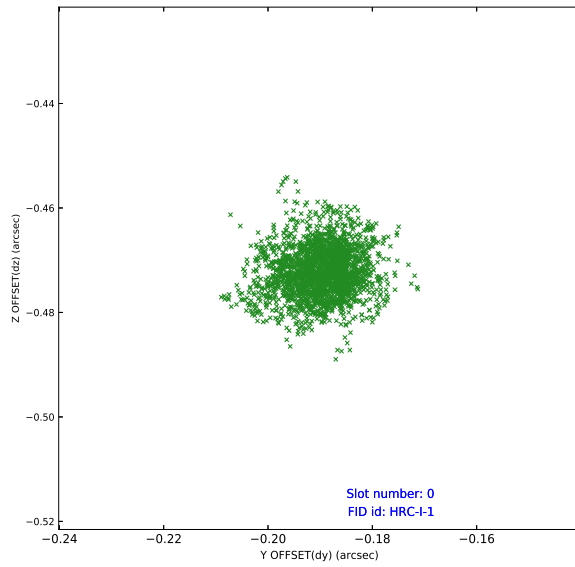


2.4.5 Slot 7

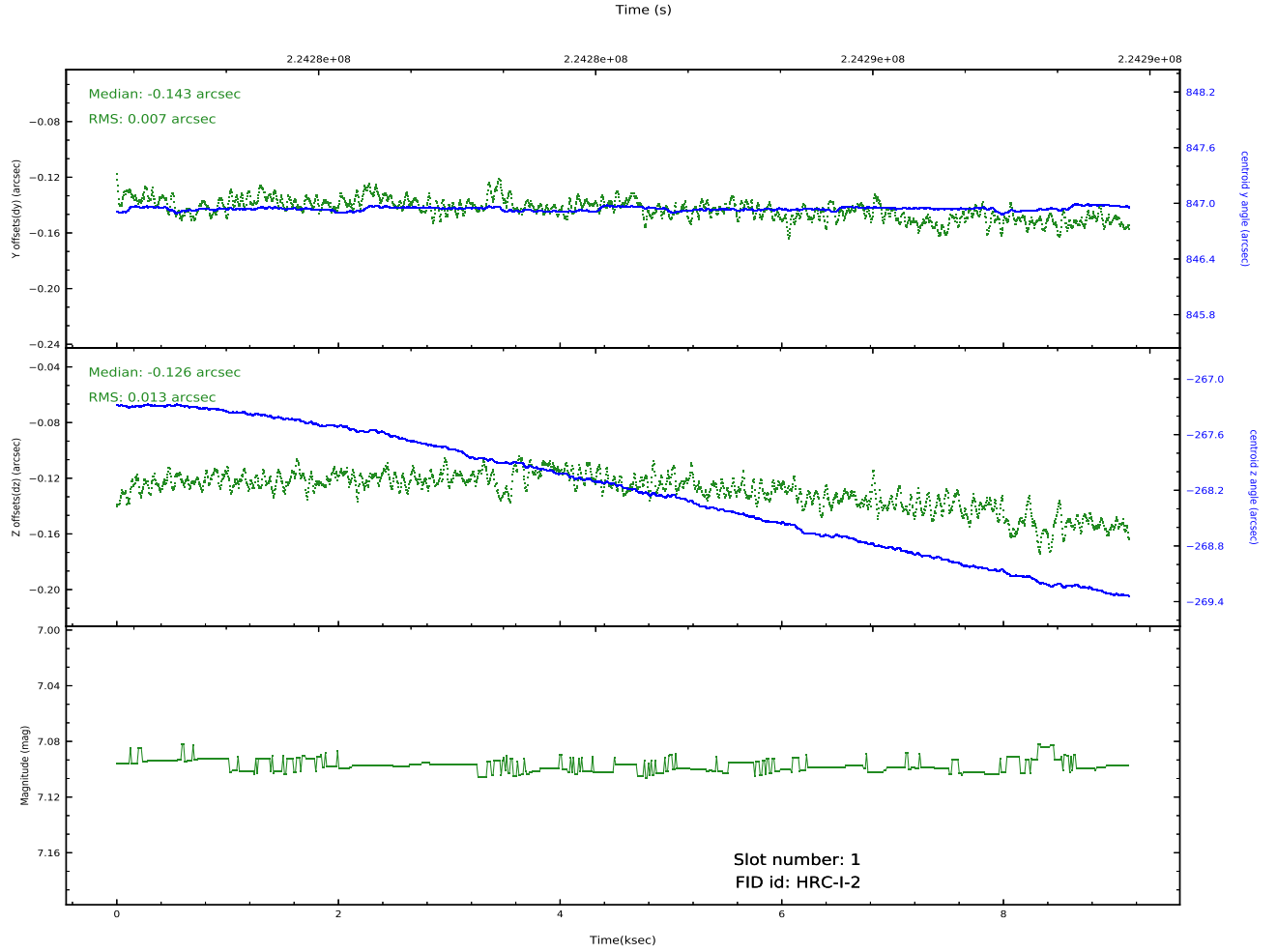
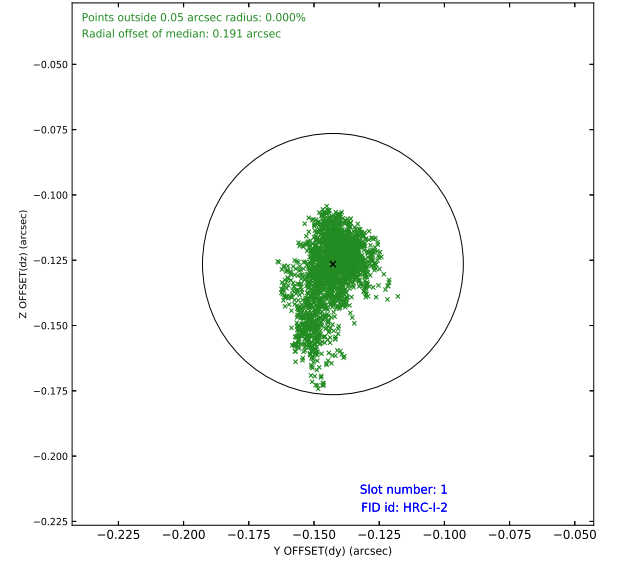
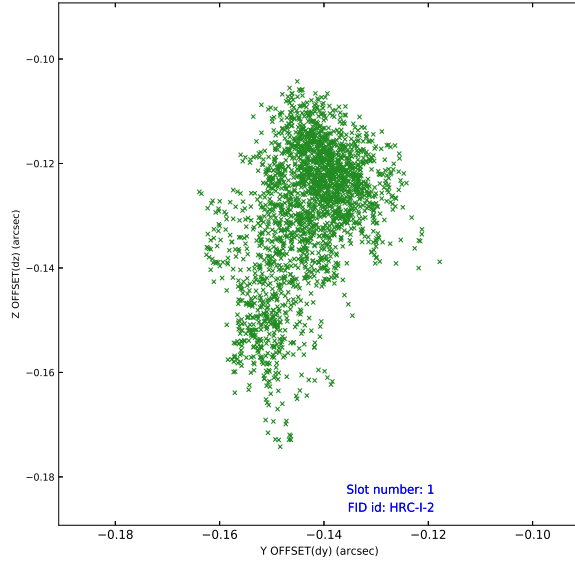


2.5 FID Slots

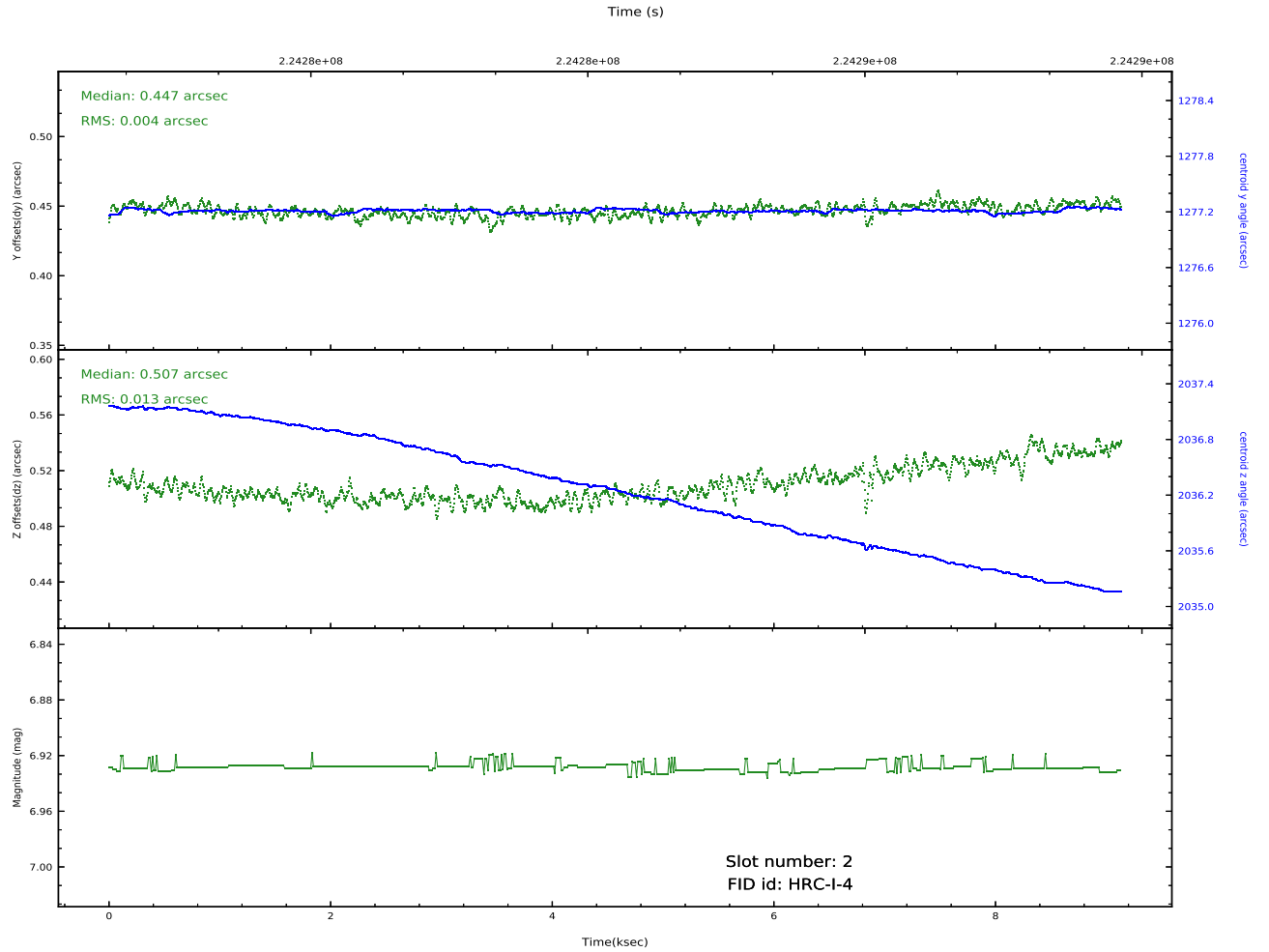
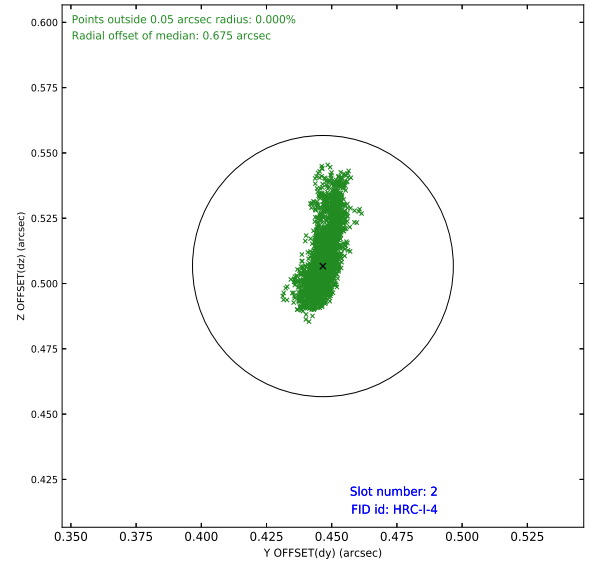
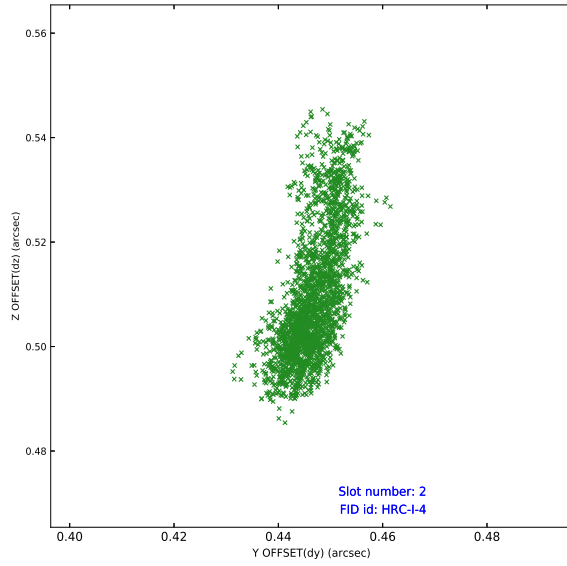
2.5.1 Slot 0



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) | 2020.10.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 9.1348 |

A.2 Comments

Joint proposal with RXTE. The large offsets in the fid light positions are due to deliberate off-center placement of the source.