

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4891 - L2 Version 4
Chandra X-Ray Center

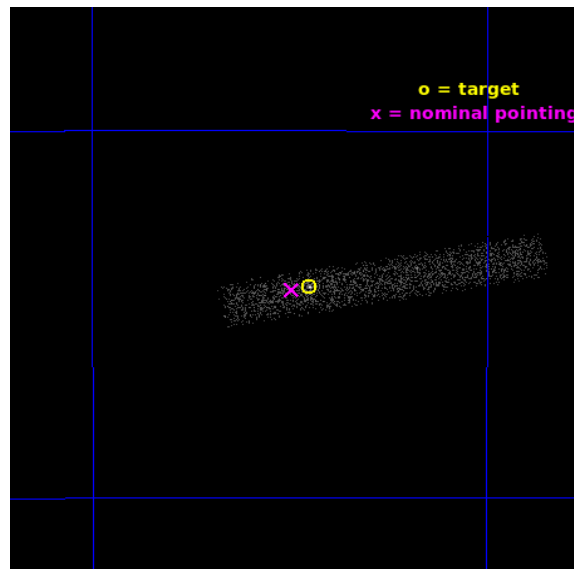
L2 Processing Date : Sep 24 2020

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1 Front

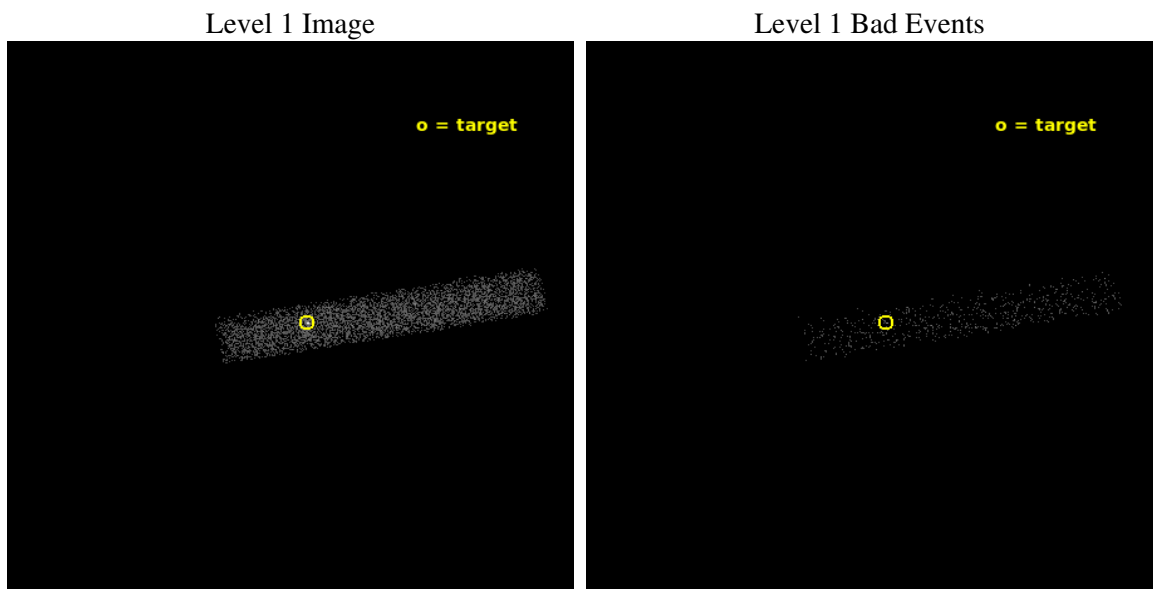
| | | |
|----------|---------------------------------------------------------------------|---------------------------------------------|
| seq_num | 700973 | Sequence number |
| obs_id | 4891 | Observation id |
| title | Continuing a Flux-limited Survey for X-ray Emission from Radio Jets | |
| observer | Herman Marshall | Principal investigator |
| object | QSO B1116-462 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 169.6125 | Observer's specified target RA [deg] |
| dec_targ | -46.570833 | Observer's specified target Dec [deg] |
| ra_nom | 169.62340866062 | Nominal RA [deg] |
| dec_nom | -46.572214800414 | Nominal Dec [deg] |
| roll_nom | 350.5415552205 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 6200.4000923634 | Sum of GTIs [s] |
| livetime | 5623.4355998217 | Livetime [s] |
| ontime7 | 6200.4000923634 | Sum of GTIs [s] |
| l2events | 4152 | Number of level 2 events |



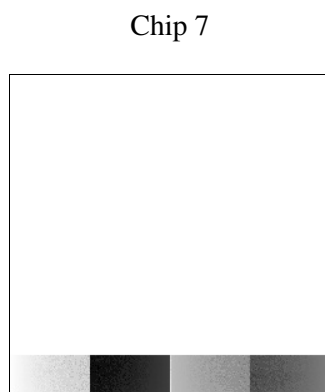
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-----------------------------------------|
| obi_num | 0 | Obi number | sched_exp_time | 6043.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.9.1 | Processing system revision | ontime | 6200.4000923634 | Sum of GTIs [s] |
| caldsver | 4.9.2 | | ontime7 | 6200.4000923634 | Sum of GTIs [s] |
| date | 2020-09-24T11:40:29 | Date and time of file creation | l1events | 9803 | Number of level 1 events |
| revision | 4 | Processing version of data | | | |

2.1.4 Events

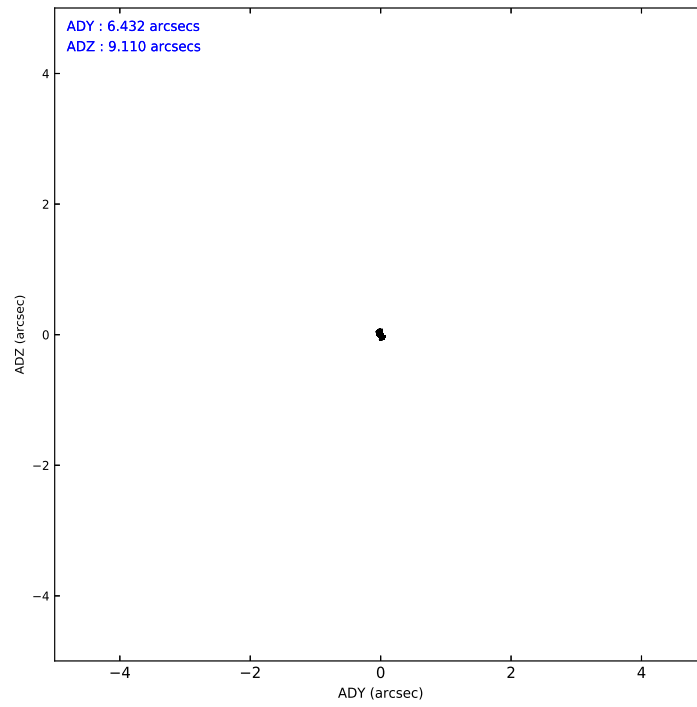
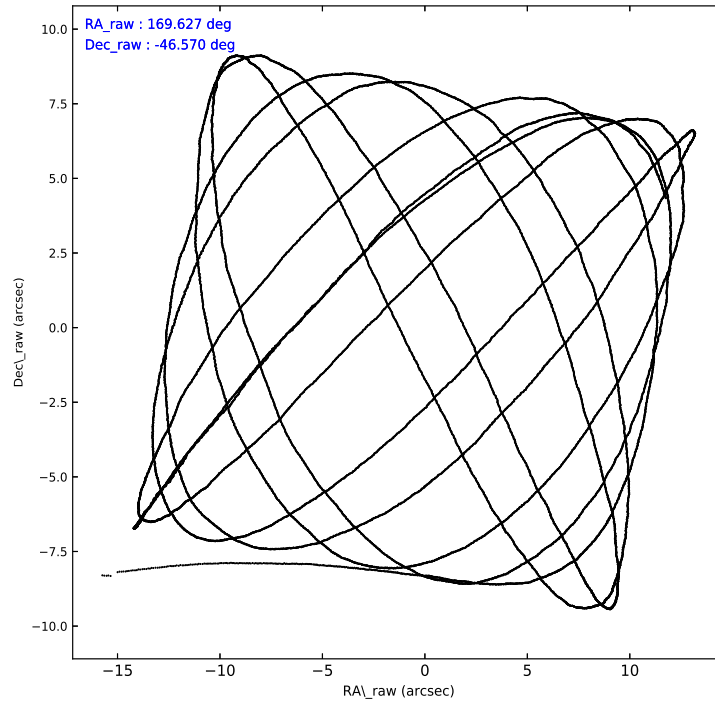
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 9803 |
| rejected events | 5372 |
| rejected % | 54% |

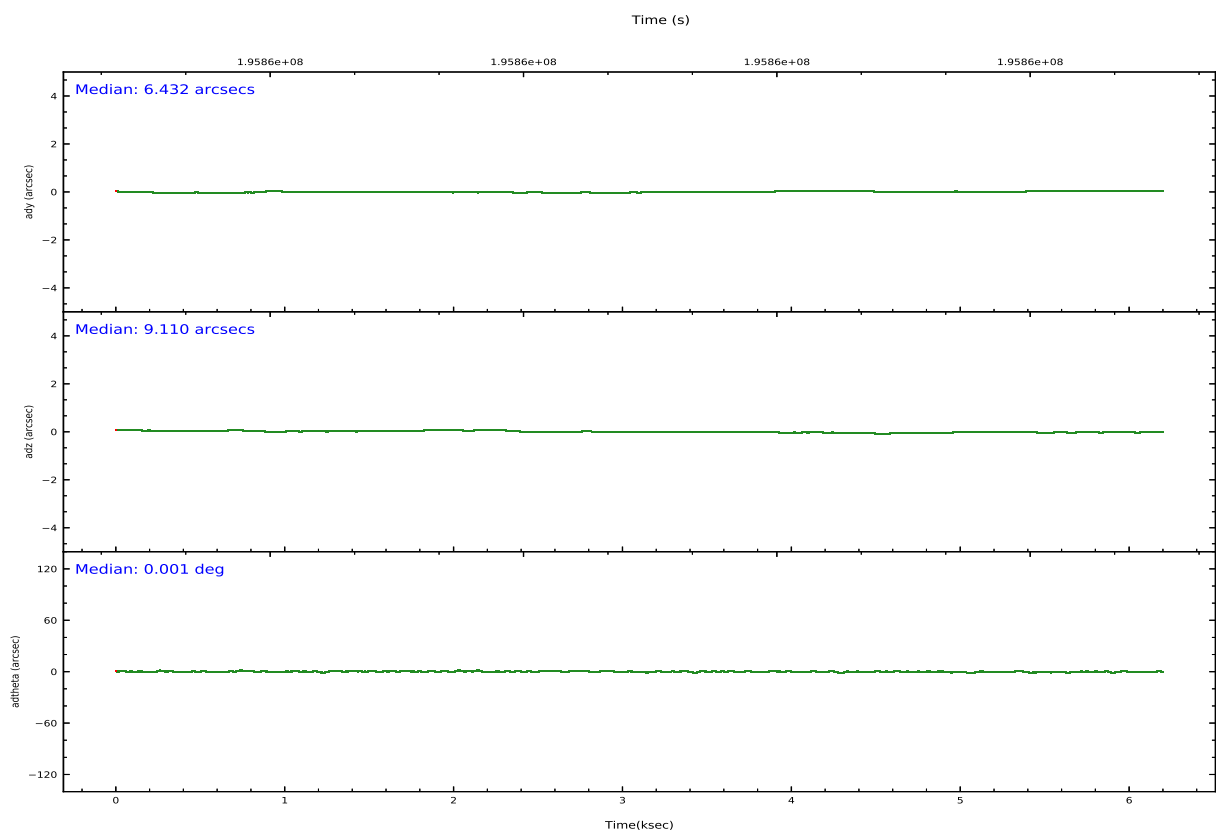
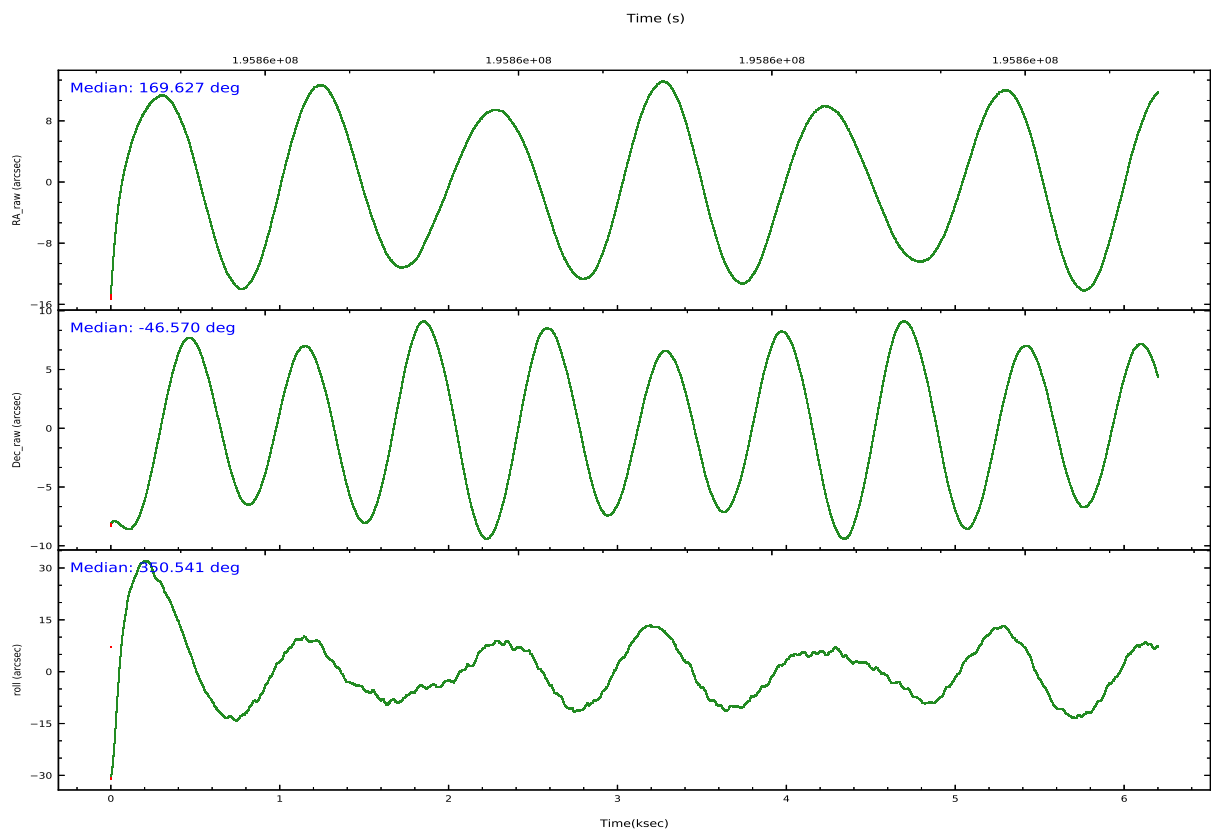
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 672 |
| | 6% |
| grade 1 events | 5 |
| | 0% |
| grade 2 events | 1016 |
| | 10% |
| grade 3 events | 695 |
| | 7% |
| grade 4 events | 611 |
| | 6% |
| grade 5 events | 756 |
| | 7% |
| grade 6 events | 2117 |
| | 21% |
| grade 7 events | 3931 |
| | 40% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar version number | 8 | 8 |
| Detector | ACIS-7 | ACIS-7 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 169.589864 | 169.62340866062 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -46.579857 | -46.572214800414 | Subarray start row | 1 | 1 |
| [deg] Pointing Roll | 350.364599 | 350.5415552205 | Subarray row count | 128 | 128 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | [s] Primary exposure time | 0.000000 | 0.4 |
| [mm] SIM translation stage pos | -178.632523 | -178.6370735452349 | | | |
| [mm] SIM translation stage offset | -11.5 | -11.49544903777291 | | | |
| [s] Observation start time (MET) | 195855244.184000 | 195853794.57179 | | | |
| Observation start date | 2004-03-16T20:13:00 | 2004-03-16T19:49:54 | | | |
| [s] Observation end time (MET) | 195861287.184000 | 195861613.27213 | | | |
| Observation end date | 2004-03-16T21:53:43 | 2004-03-16T22:00:13 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



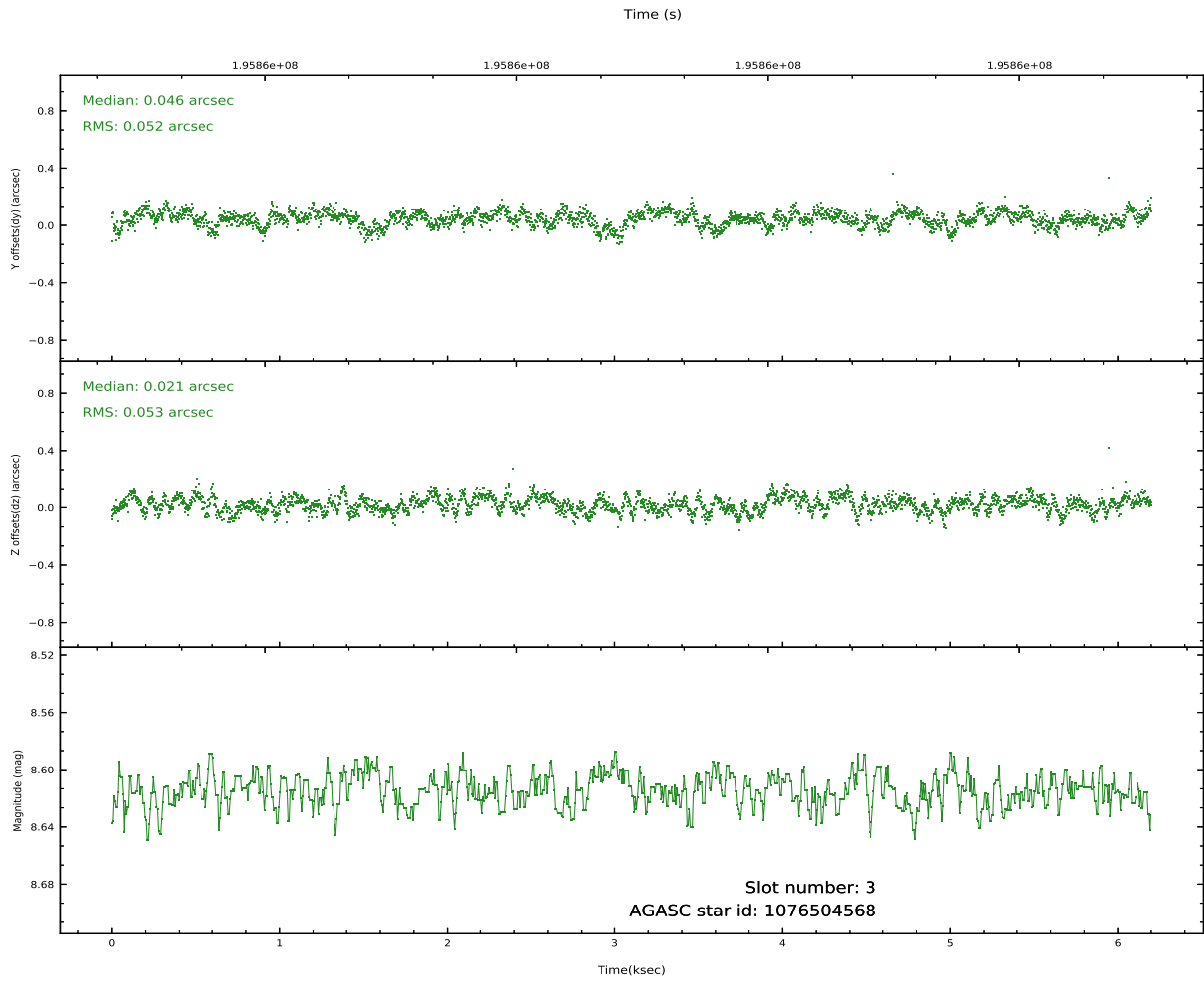
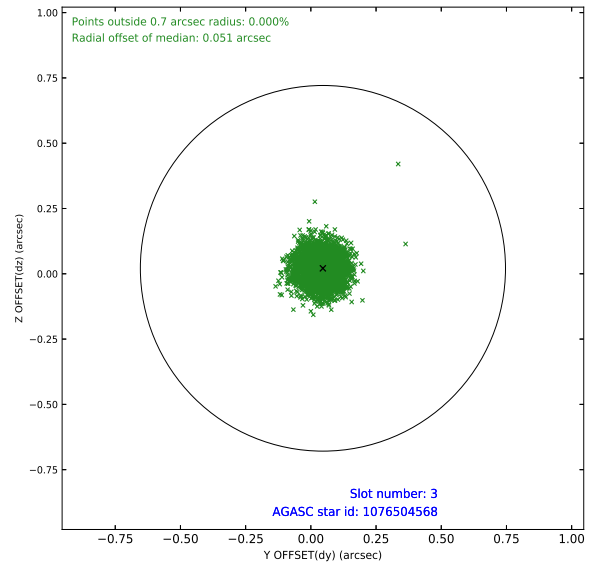
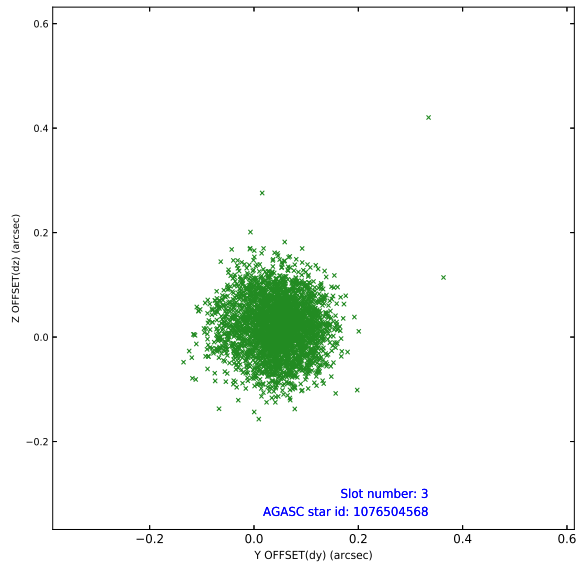


Slot Statistics

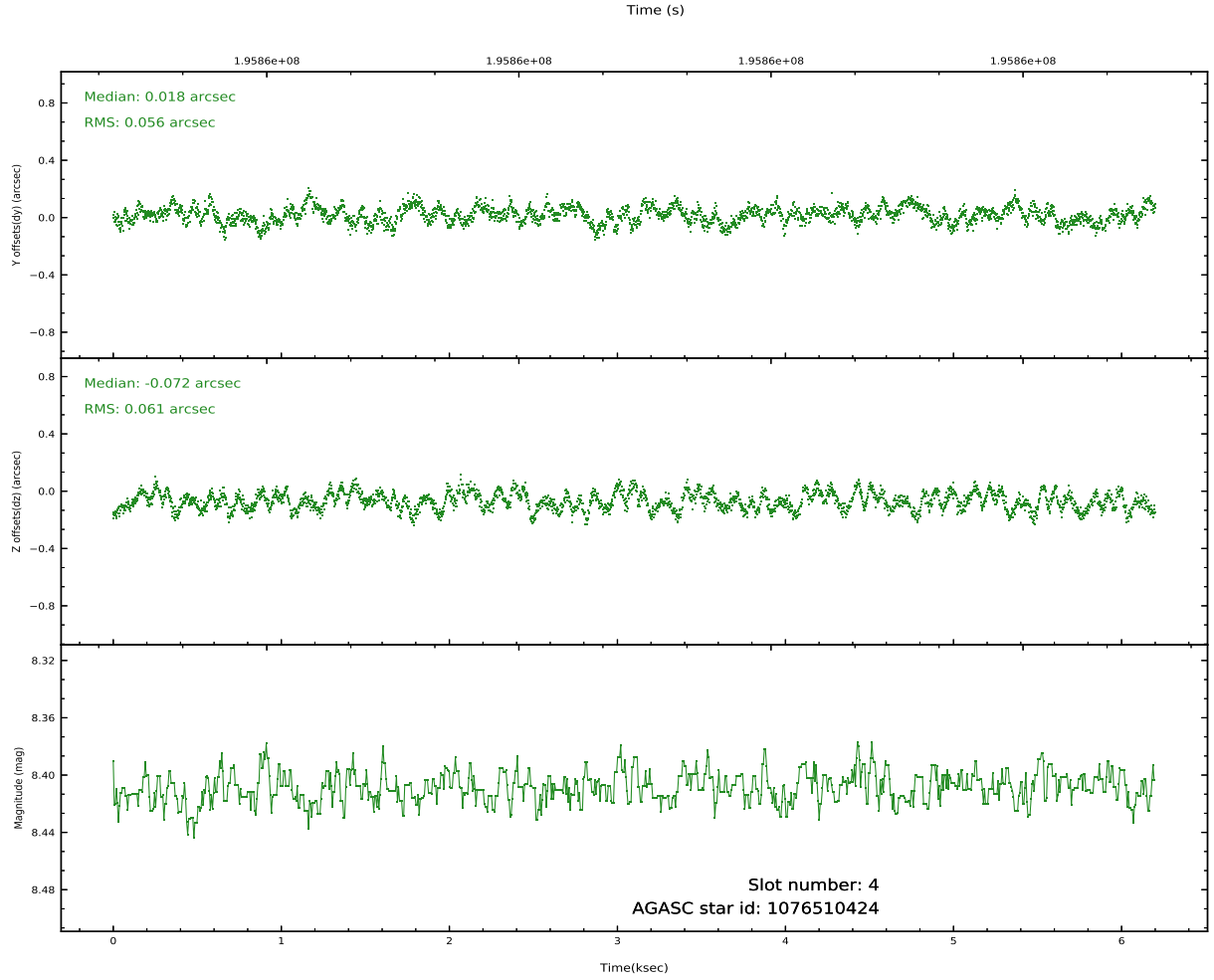
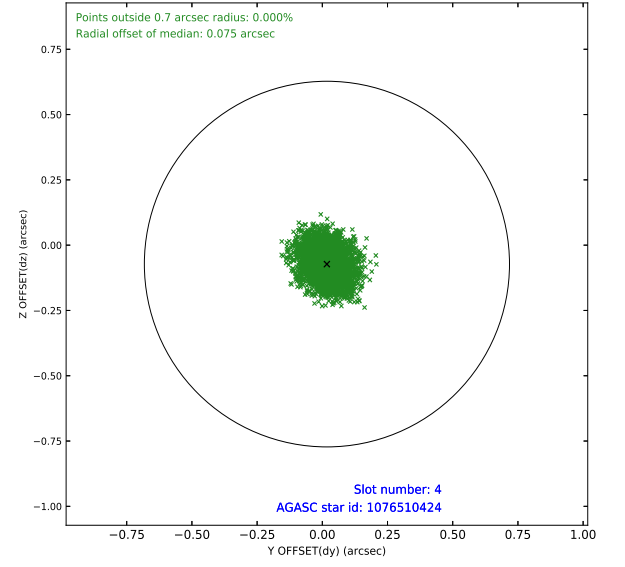
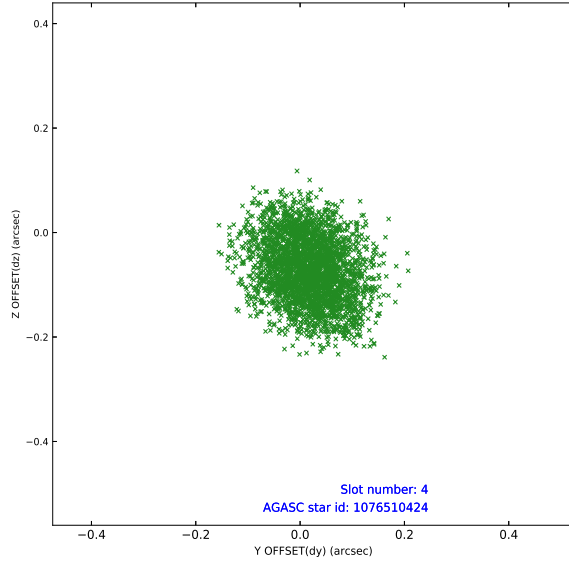
| pt | status | used | id | mag | n_pts | frac_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mea |
|----|--------|------|------------|-------|-------|----------|--------|--------|-------|-------|------------|------------|----------|-------|
| 0 | FID | | ACIS-S-2 | 7.08 | 1513 | 1.000 | 0.072 | -0.360 | 0.007 | 0.012 | 0.000000 | 0.000000 | -758.44 | -1967 |
| 1 | FID | | ACIS-S-5 | 7.23 | 1513 | 1.000 | -0.107 | 0.257 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1811.98 | -65 |
| 2 | FID | | ACIS-S-6 | 7.43 | 1513 | 1.000 | 0.009 | 0.109 | 0.006 | 0.010 | 0.000000 | 0.000000 | 402.33 | 578 |
| 3 | GUIDE | used | 1076504568 | 8.61 | 3026 | 1.000 | 0.046 | 0.021 | 0.080 | 0.125 | 169.491382 | -46.098352 | -532.40 | 1667 |
| 4 | GUIDE | used | 1076510424 | 8.41 | 3026 | 1.000 | 0.018 | -0.072 | 0.090 | 0.139 | 169.243956 | -46.414451 | -945.44 | 441 |
| 5 | GUIDE | used | 1076511400 | 10.00 | 3018 | 1.000 | -0.037 | -0.026 | 0.138 | 0.230 | 170.375926 | -46.445884 | 1843.07 | 792 |
| 6 | GUIDE | used | 1077029216 | 9.74 | 3025 | 1.000 | 0.031 | -0.062 | 0.102 | 0.166 | 169.313574 | -46.963370 | -436.98 | -1475 |
| 7 | GUIDE | used | 1077031040 | 9.84 | 3021 | 1.000 | -0.065 | 0.139 | 0.103 | 0.170 | 169.771539 | -47.213042 | 819.90 | -2173 |

2.4 Star Slots

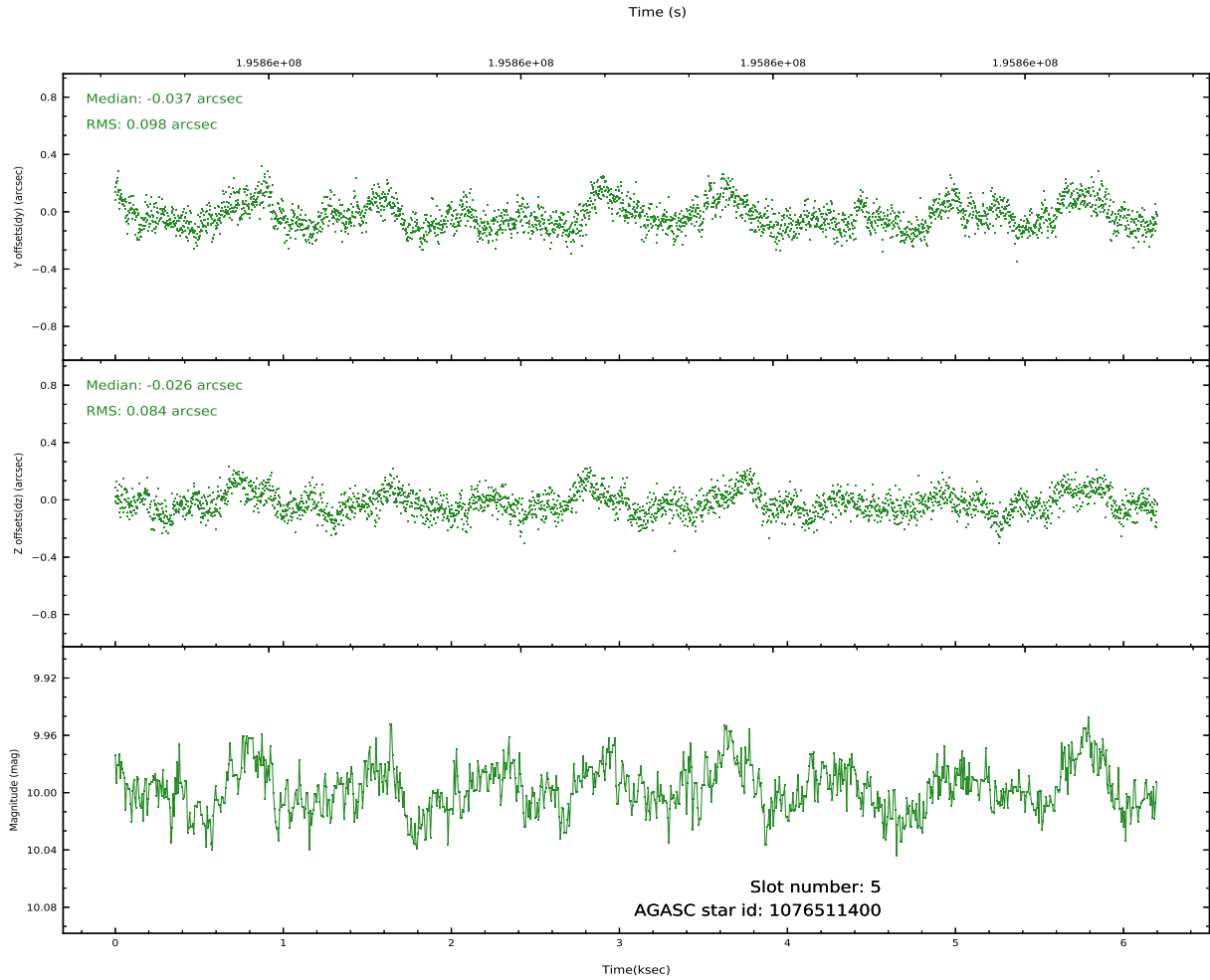
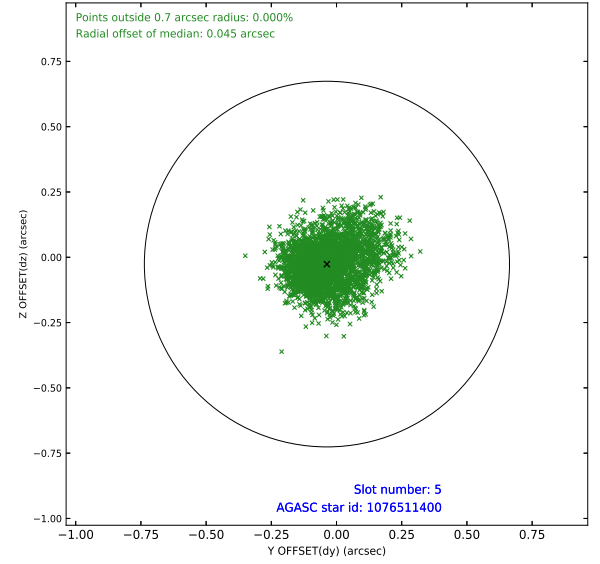
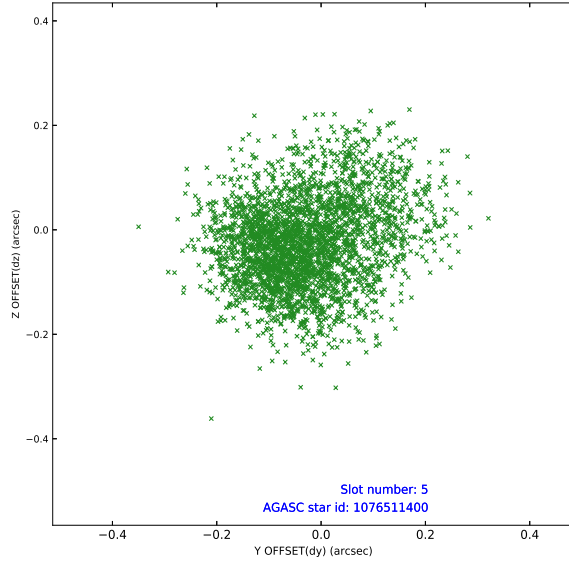
2.4.1 Slot 3



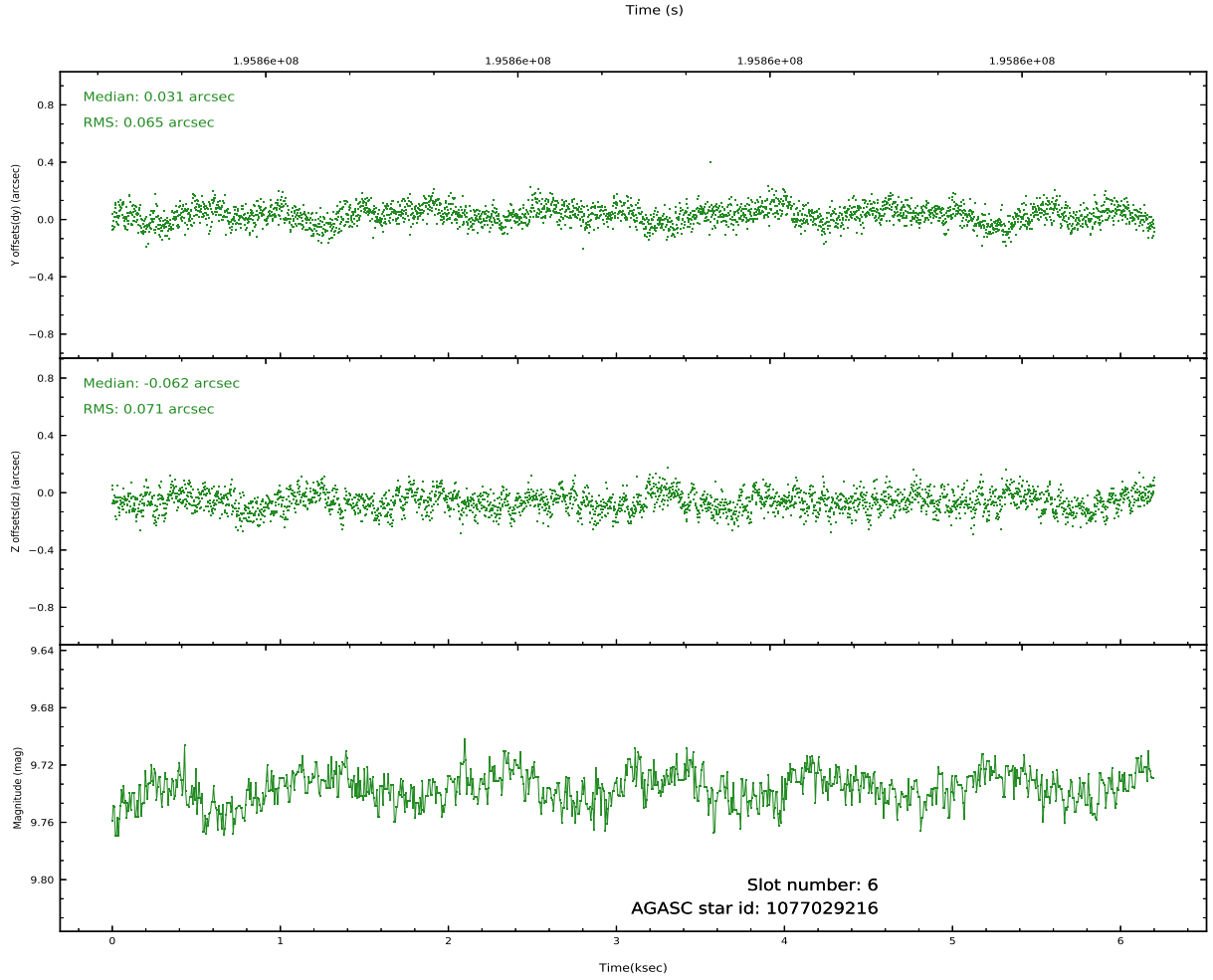
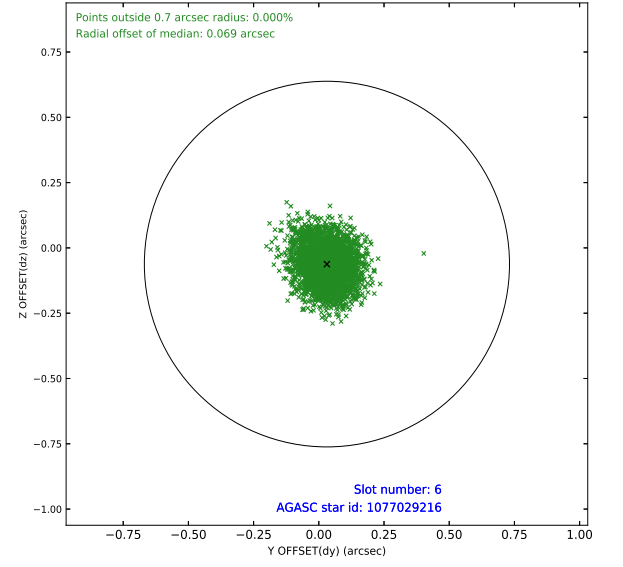
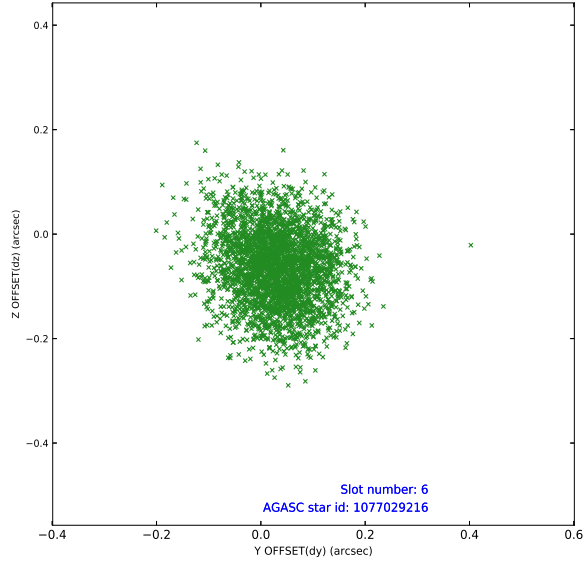
2.4.2 Slot 4



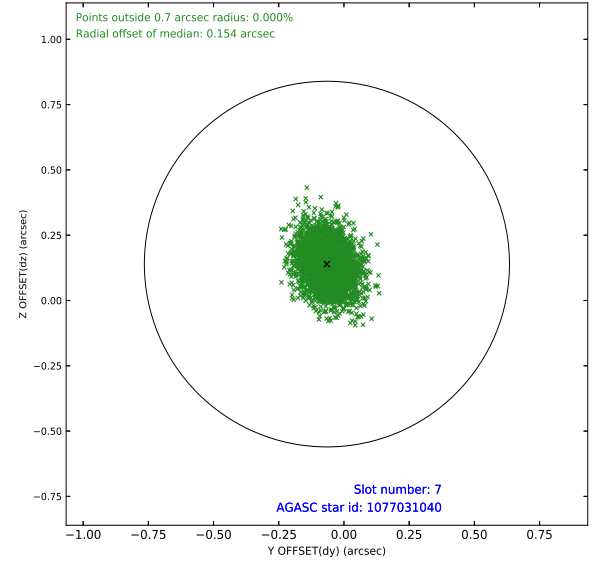
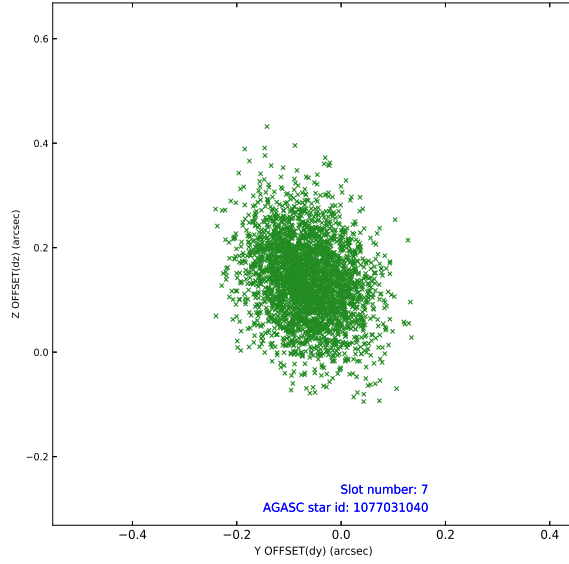
2.4.3 Slot 5



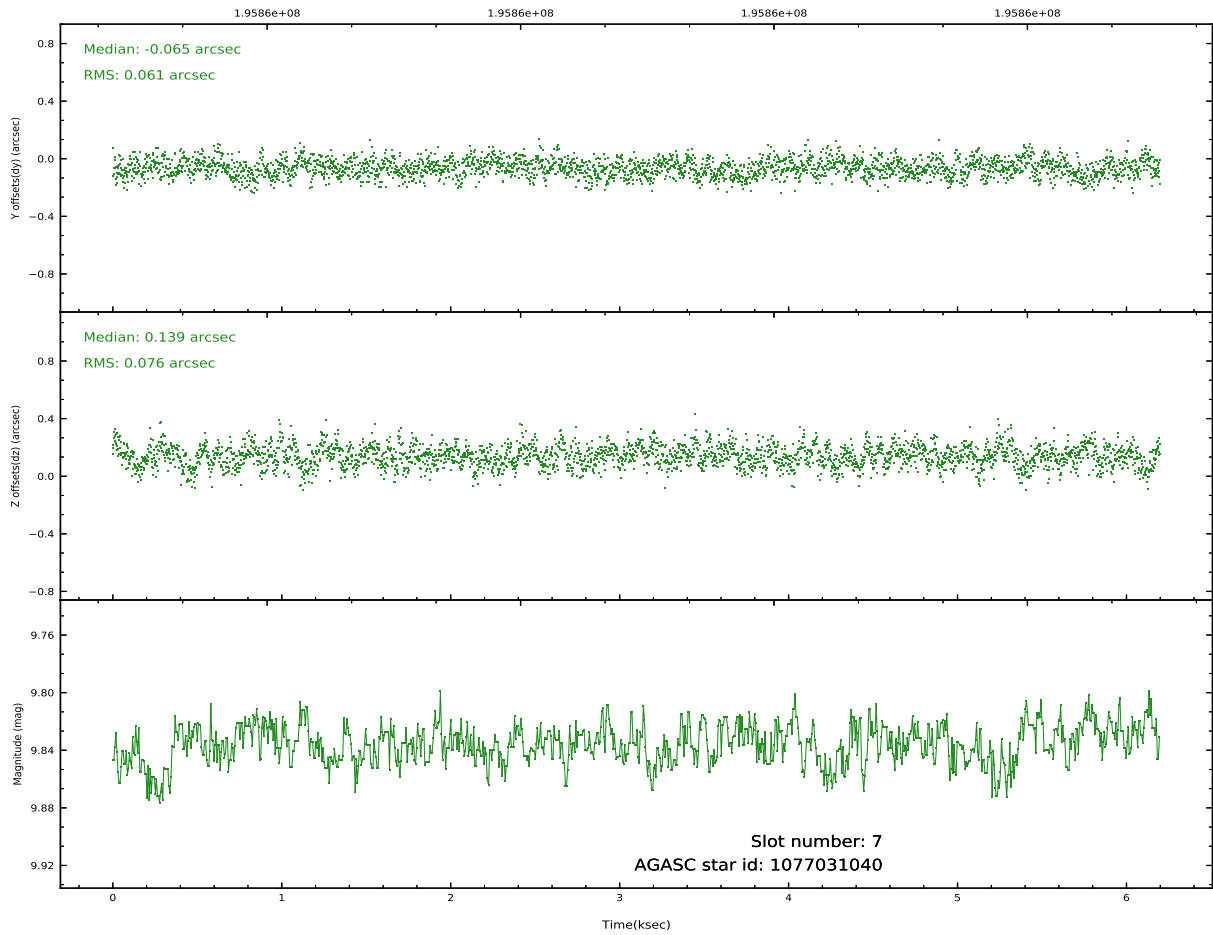
2.4.4 Slot 6



2.4.5 Slot 7

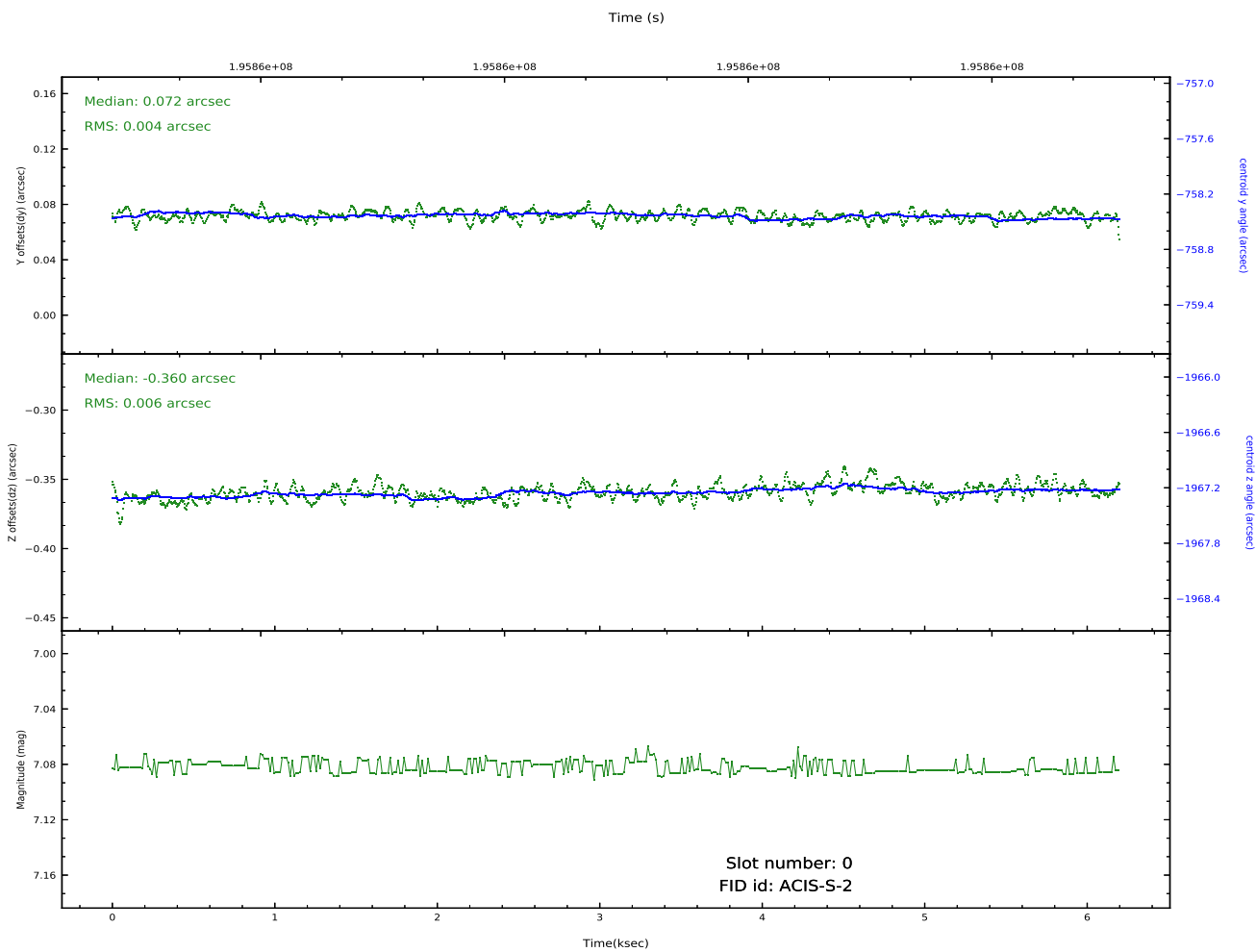
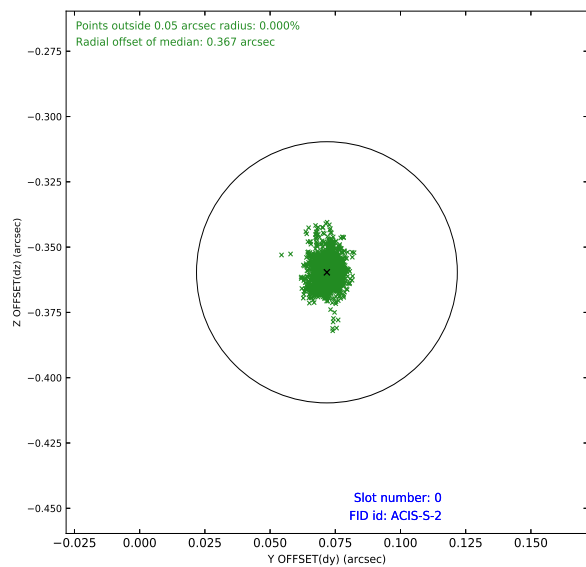
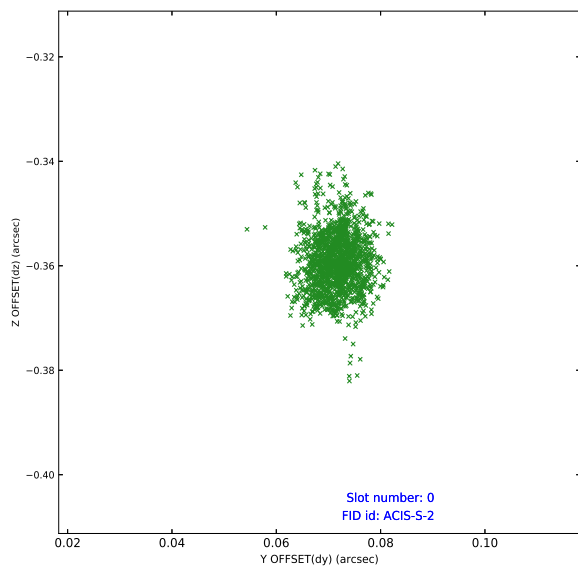


Time (s)

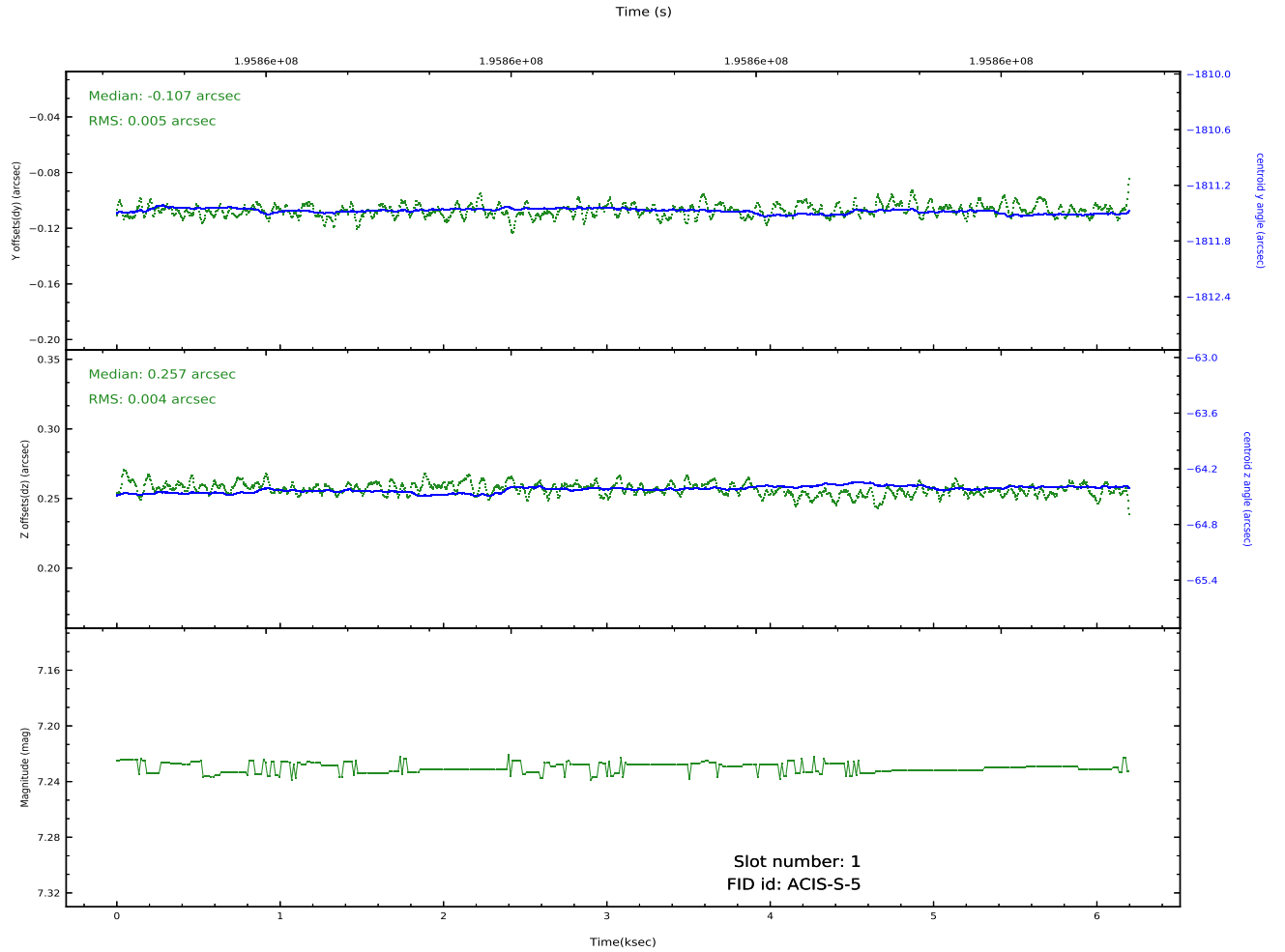
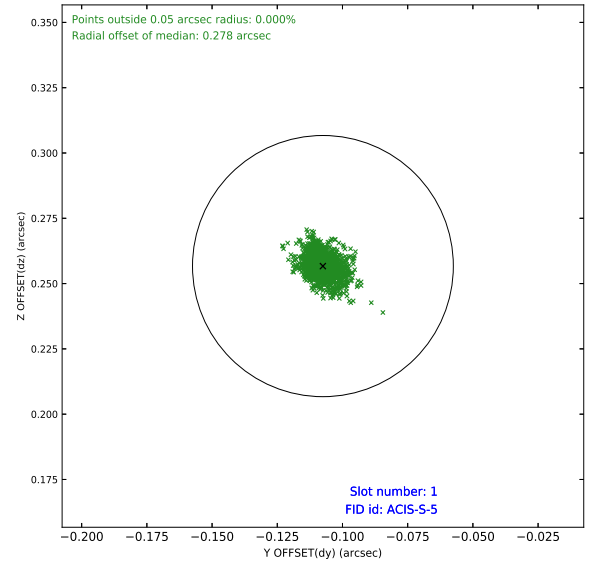
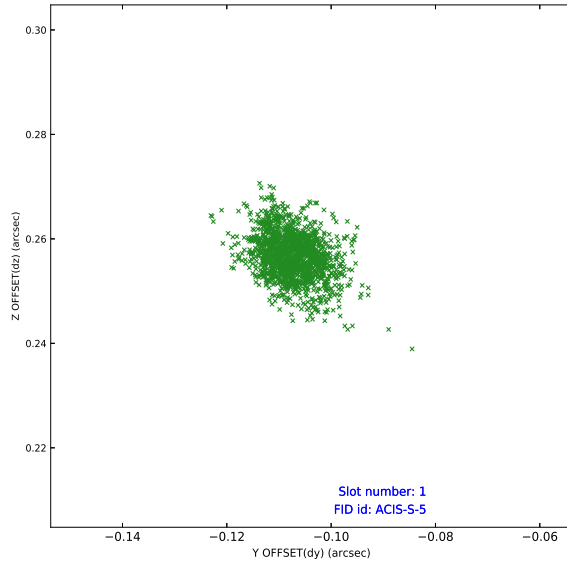


2.5 FID Slots

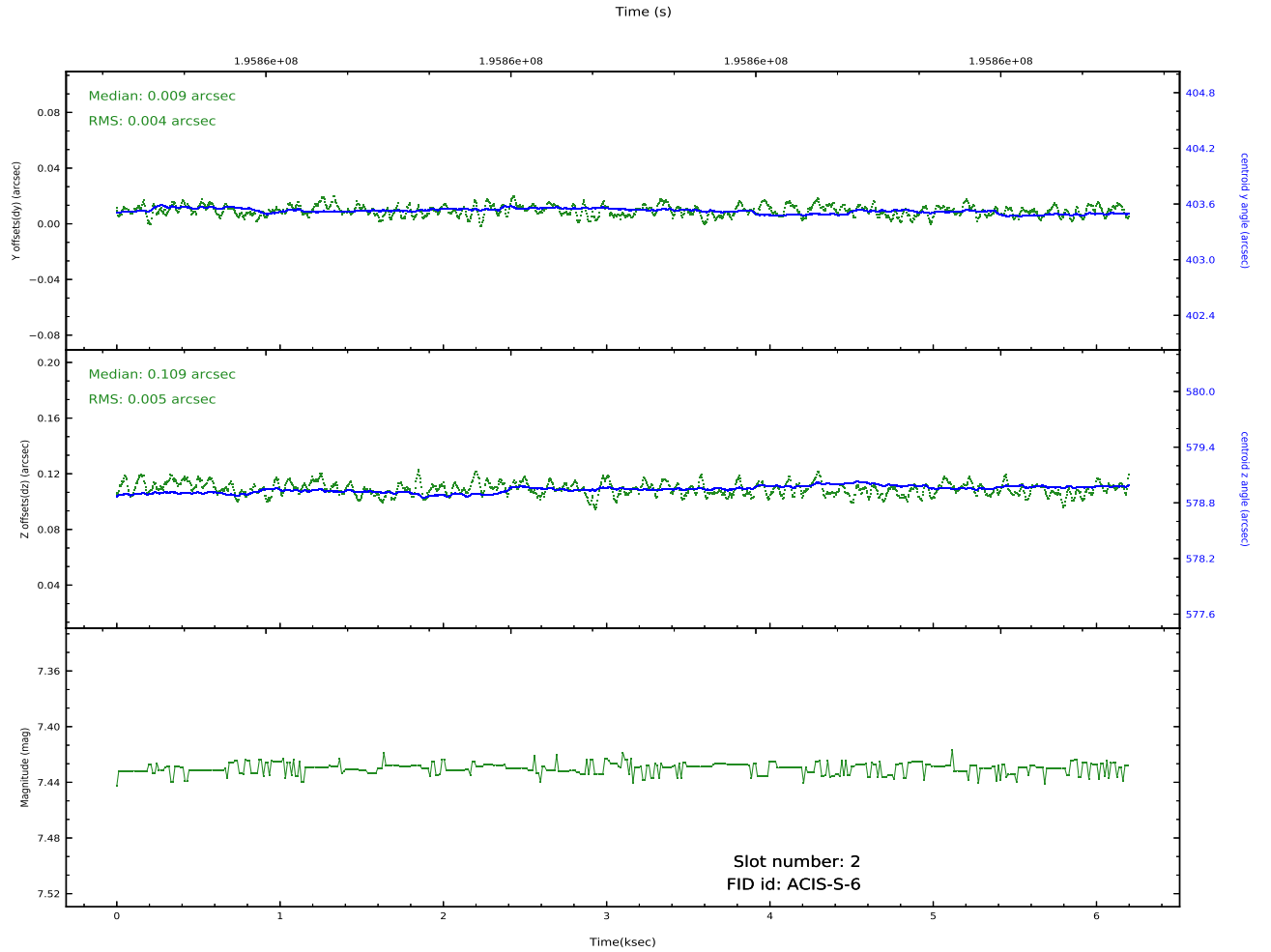
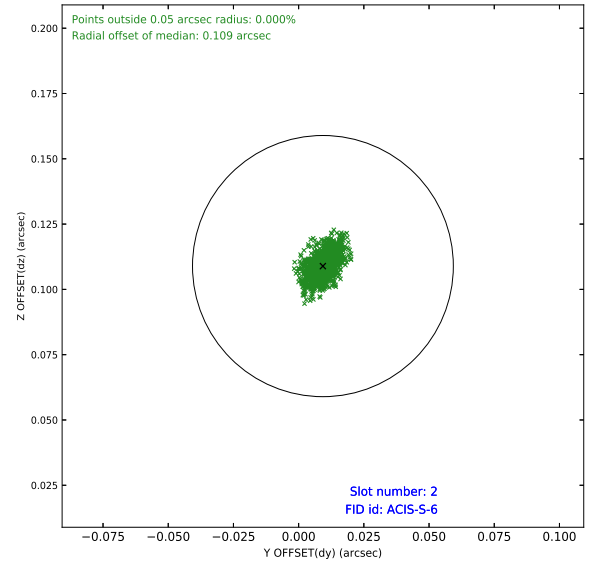
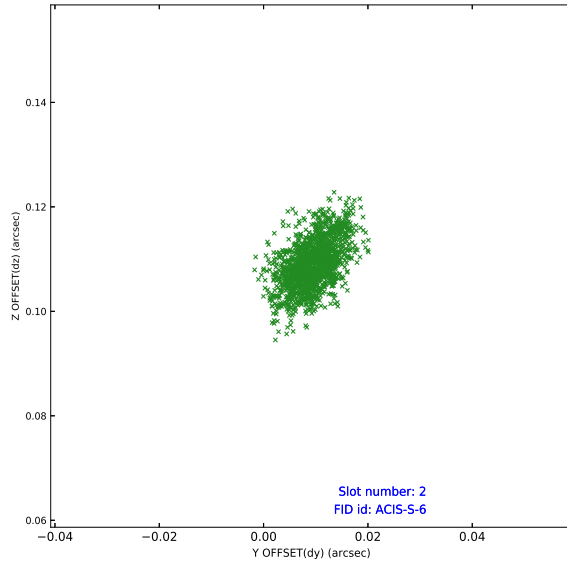
2.5.1 Slot 0



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) | 2020.09.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.2 |

A.2 Comments