

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12560 - L2 Version 2
Chandra X-Ray Center

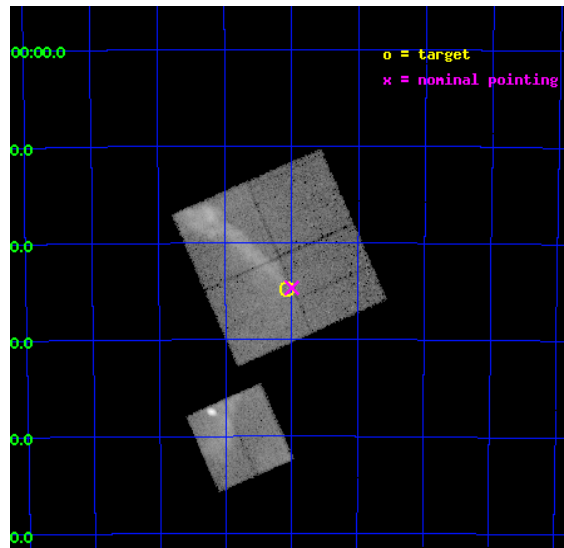
L2 Processing Date : Jul 4 2012

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1 Front

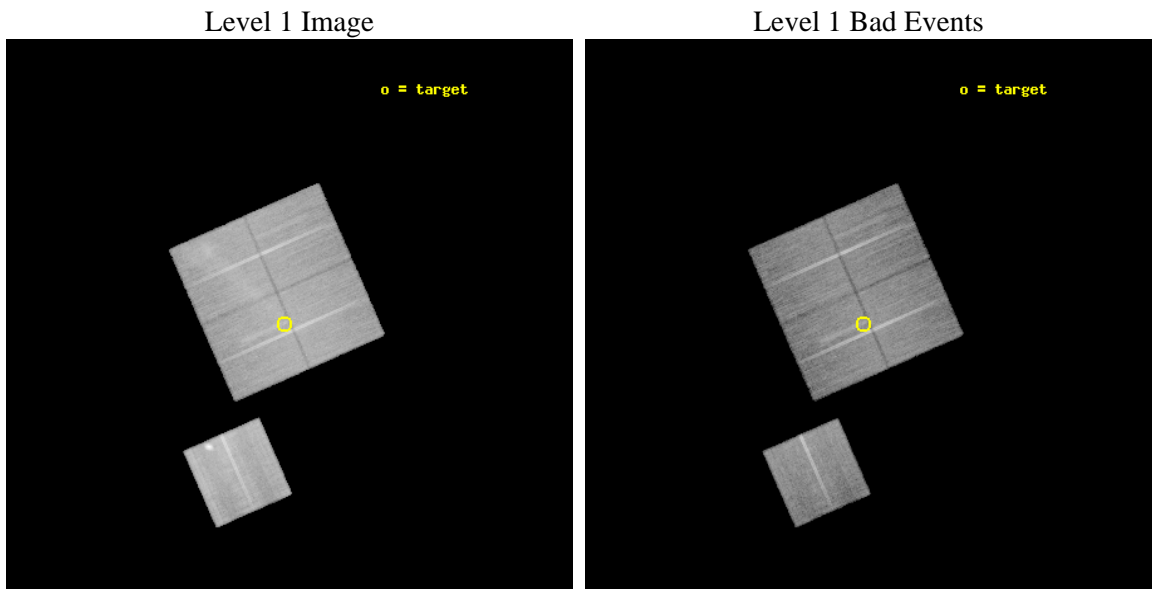
| | | |
|----------|---|---|
| seq_num | 501393 | Sequence number |
| obs_id | 12560 | Observation id |
| title | Clumpy Winds and a Bursting X-ray Source: A Chandra Study of G296.1-0.5 | Proposal title |
| observer | Dr. Patrick Slane | Principal investigator |
| object | G296.5-0.1 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 177.516667 | Observer's specified target RA [deg] |
| dec_targ | -62.411945 | Observer's specified target Dec [deg] |
| ra_nom | 177.49936397933 | Nominal RA [deg] |
| dec_nom | -62.411023242123 | Nominal Dec [deg] |
| roll_nom | 156.25698463714 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 30048.300231099 | Sum of GTIs [s] |
| livetime | 29655.697067343 | Livetime [s] |
| ontime0 | 30045.159220815 | Sum of GTIs [s] |
| ontime1 | 30048.300231099 | Sum of GTIs [s] |
| ontime2 | 30042.018240392 | Sum of GTIs [s] |
| ontime3 | 30048.300231099 | Sum of GTIs [s] |
| ontime8 | 30048.300231099 | Sum of GTIs [s] |
| l2events | 185637 | Number of level 2 events |



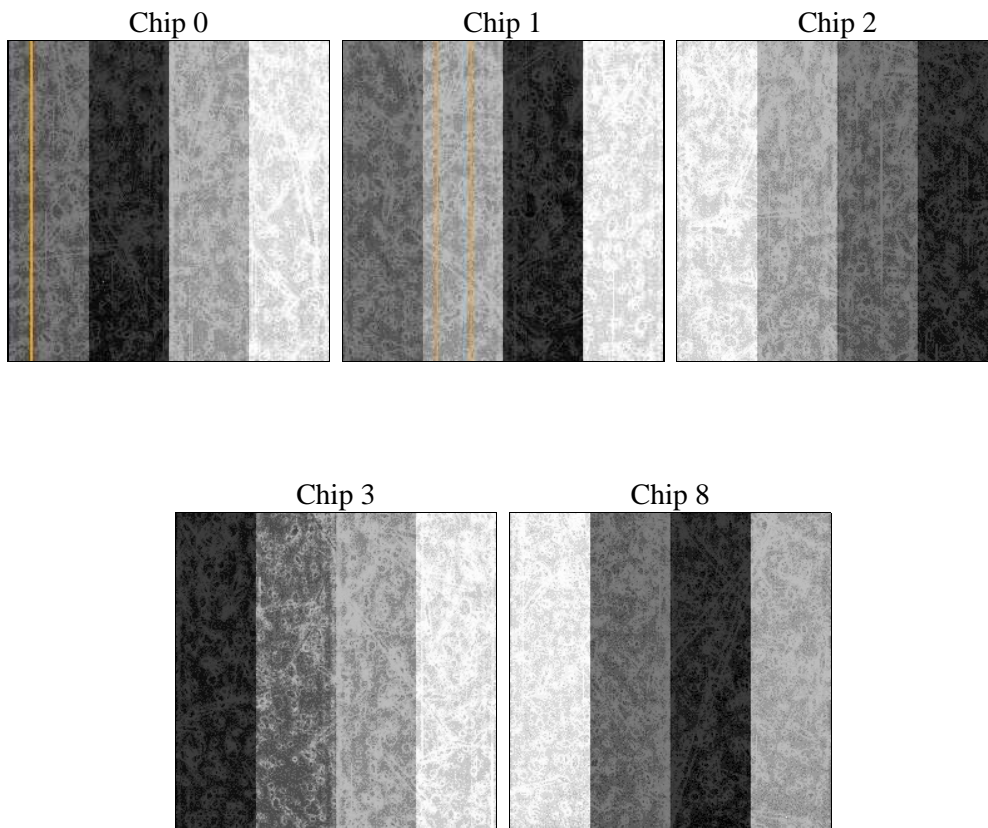
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 30000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 30048.300231099 | Sum of GTIs [s] |
| caldbver | 4.5.0 | | ontime0 | 30045.159220815 | Sum of GTIs [s] |
| date | 2012-07-04T18:03:56 | Date and time of file creation | ontime1 | 30048.300231099 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 30042.018240392 | Sum of GTIs [s] |
| | | | ontime3 | 30048.300231099 | Sum of GTIs [s] |
| | | | ontime8 | 30048.300231099 | Sum of GTIs [s] |
| | | | l1events | 1215055 | Number of level 1 events |

2.1.4 Events

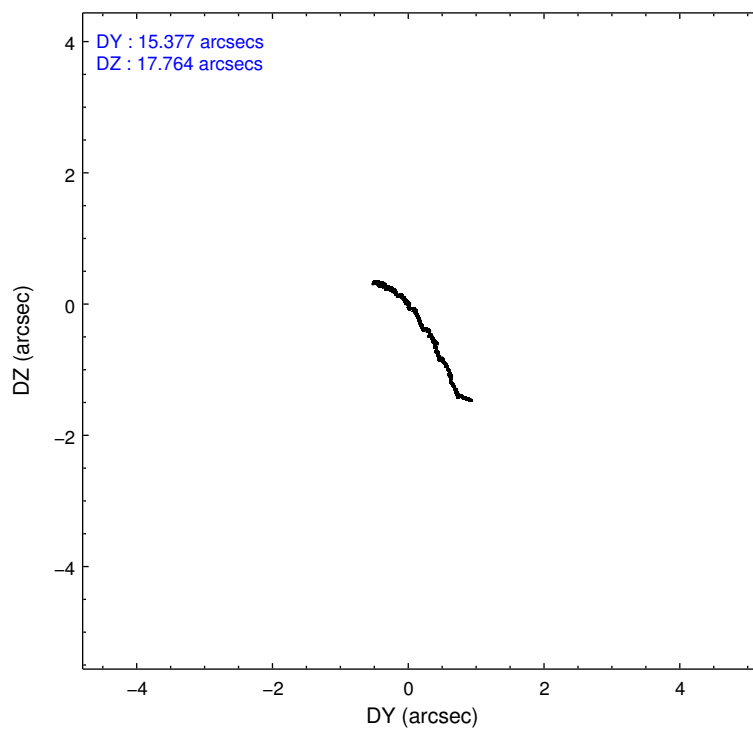
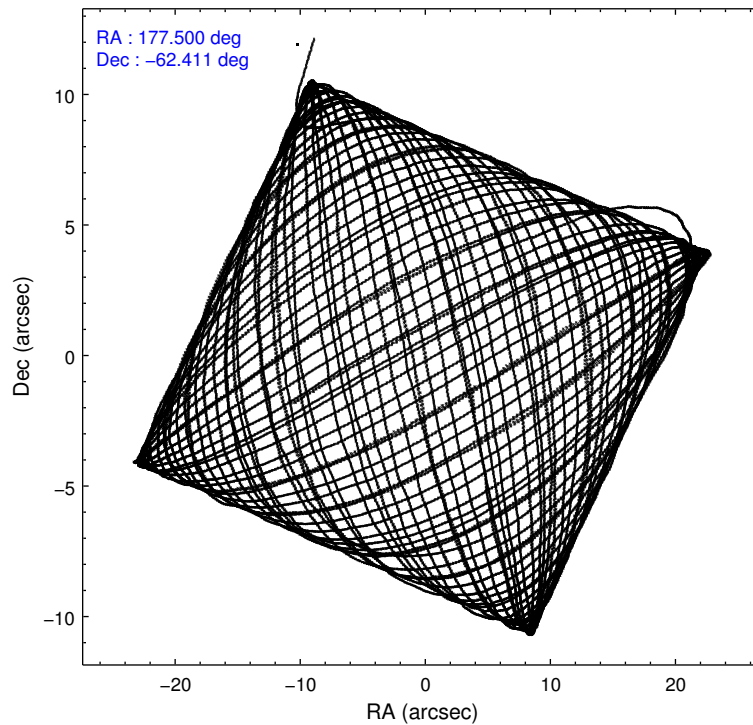
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 204075 | 242884 | 224141 | 229290 | 314665 |
| rejected events | 177260 | 182300 | 197377 | 191586 | 209582 |
| rejected % | 86% | 75% | 88% | 83% | 66% |

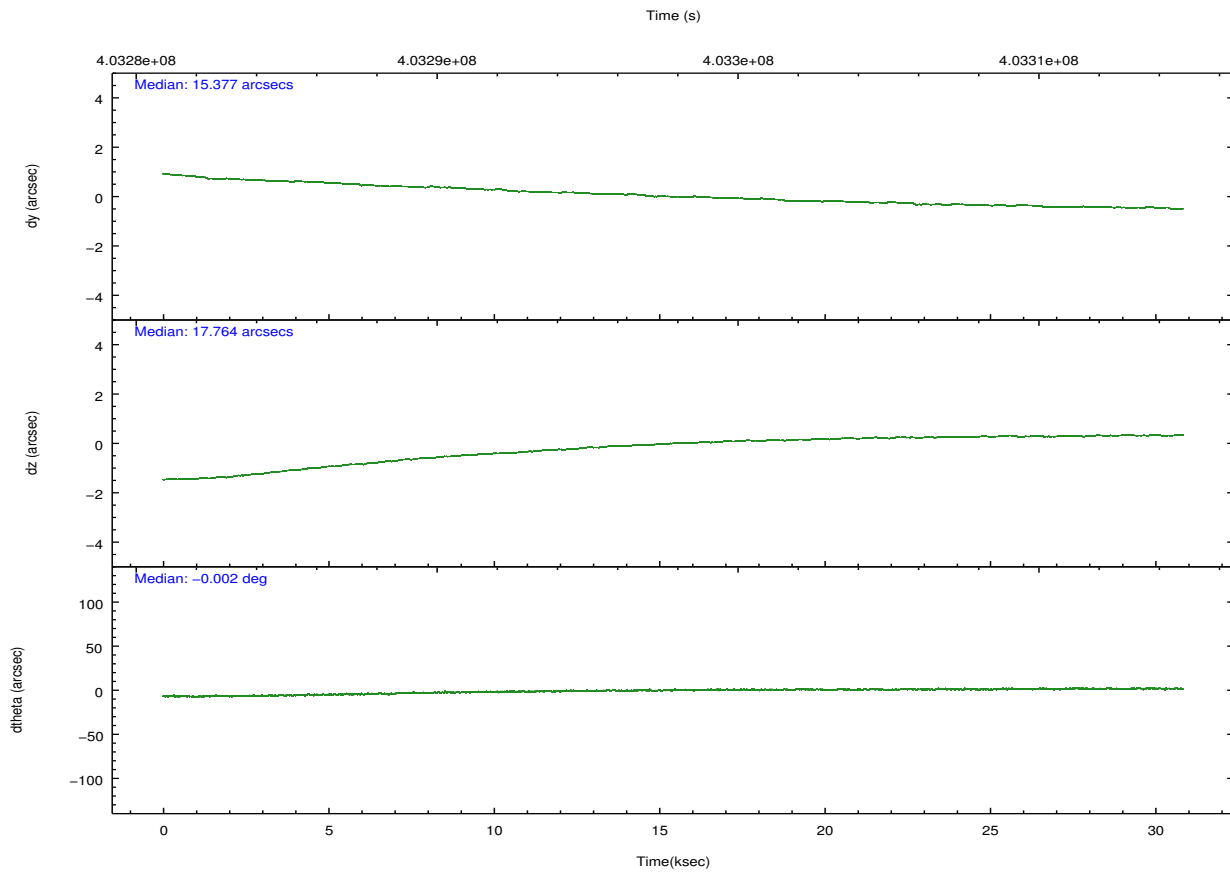
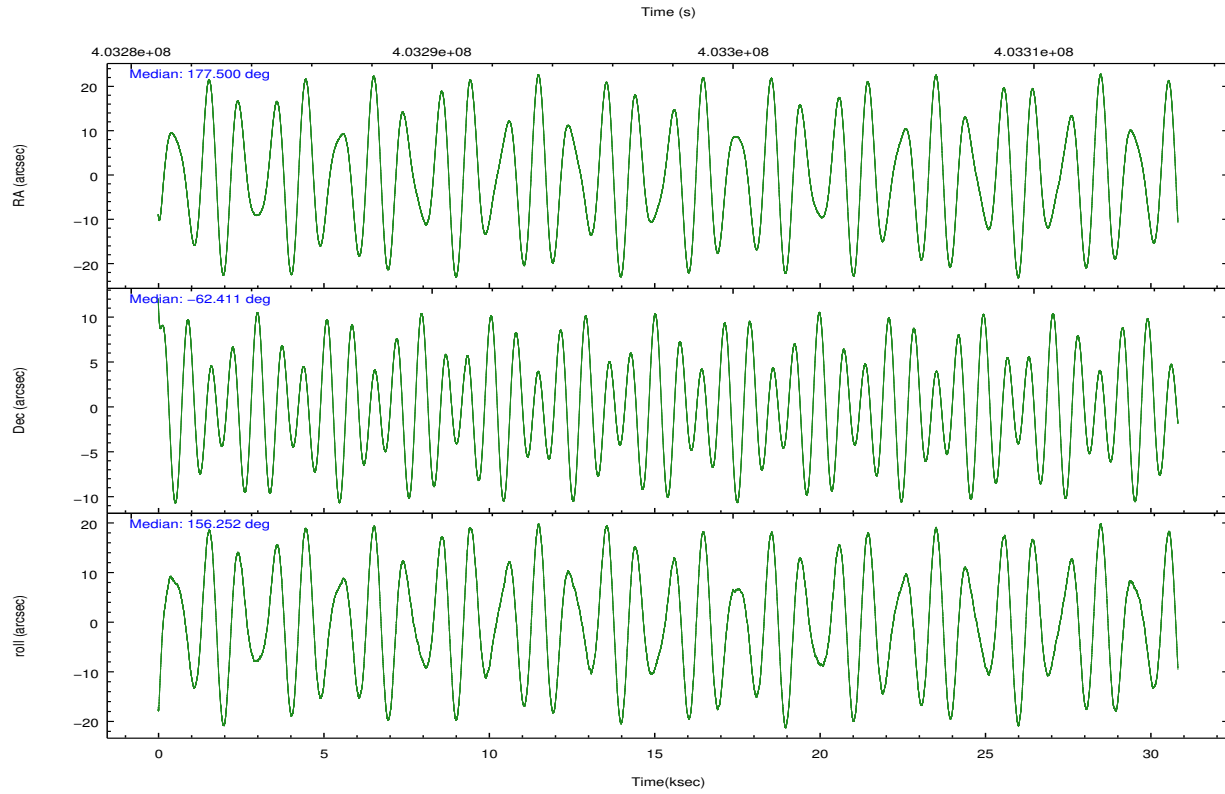
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|
| grade 0 events | 10862 | 39833 | 11269 | 21398 | 50454 |
| | 5% | 16% | 5% | 9% | 16% |
| grade 1 events | 137 | 239 | 151 | 202 | 377 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 6151 | 8647 | 6048 | 6132 | 18900 |
| | 3% | 3% | 2% | 2% | 6% |
| grade 3 events | 2597 | 3165 | 2432 | 2661 | 8024 |
| | 1% | 1% | 1% | 1% | 2% |
| grade 4 events | 2521 | 3122 | 2561 | 2750 | 7621 |
| | 1% | 1% | 1% | 1% | 2% |
| grade 5 events | 8904 | 9617 | 8576 | 10282 | 14435 |
| | 4% | 3% | 3% | 4% | 4% |
| grade 6 events | 4686 | 5822 | 4457 | 4766 | 20096 |
| | 2% | 2% | 1% | 2% | 6% |
| grade 7 events | 168217 | 172439 | 188647 | 181099 | 194758 |
| | 82% | 70% | 84% | 78% | 61% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-01238 | ACIS-01238 | 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 | 177.558319 | 177.4993639793258 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -62.407913 | -62.41102324212325 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 156.100553 | 156.256984637137 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -225.694963 | -225.7025416751365 | | | |
| [mm] SIM translation stage offset | -7.8975 | -7.889911327793158 | | | |
| [s] Observation start time (MET) | 403283250.184000 | 403281368.65215 | | | |
| Observation start date | 2010-10-12T15:06:24 | 2010-10-12T14:36:08 | | | |
| [s] Observation end time (MET) | 403313250.184000 | 403314695.50387 | | | |
| Observation end date | 2010-10-12T23:26:24 | 2010-10-12T23:51:35 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



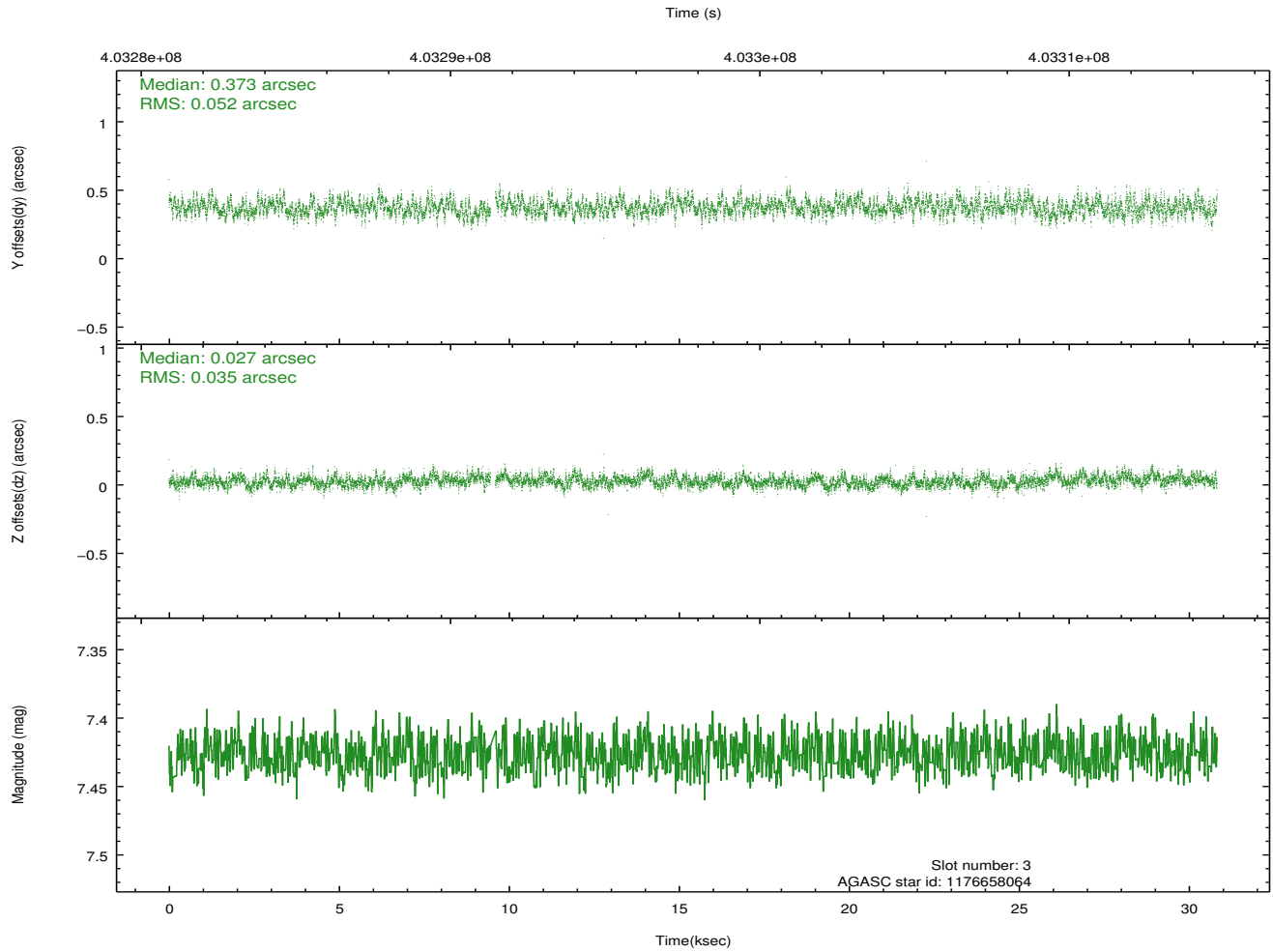
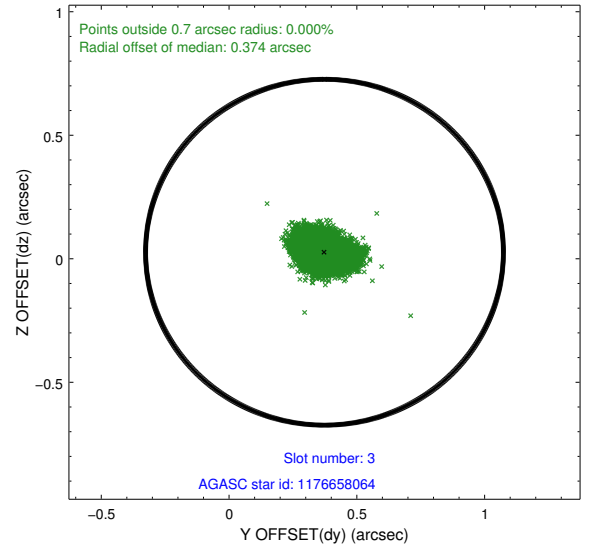
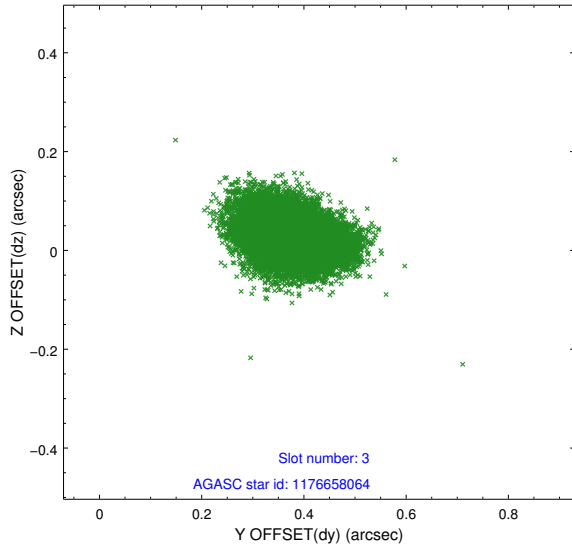


Slot Statistics

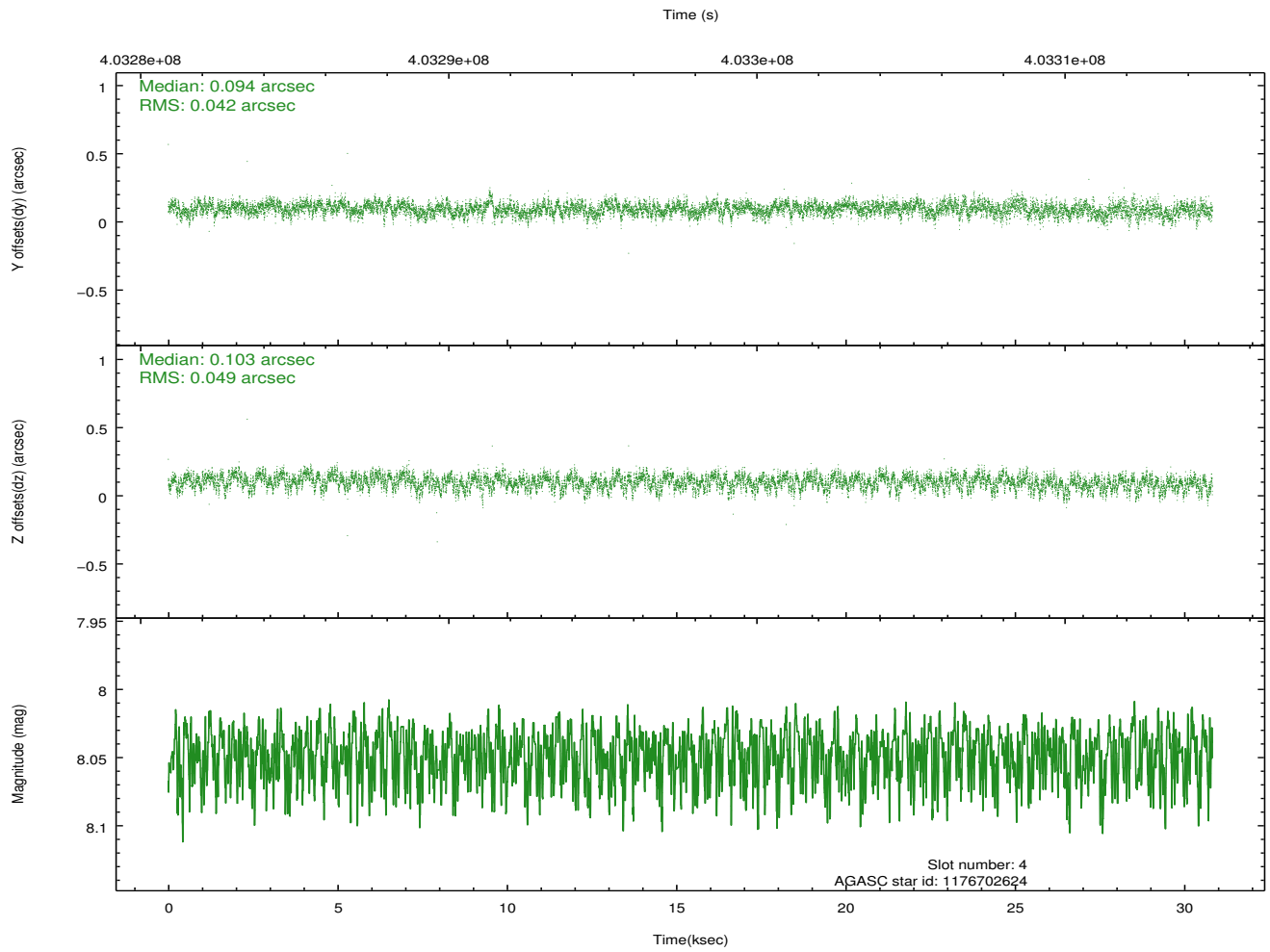
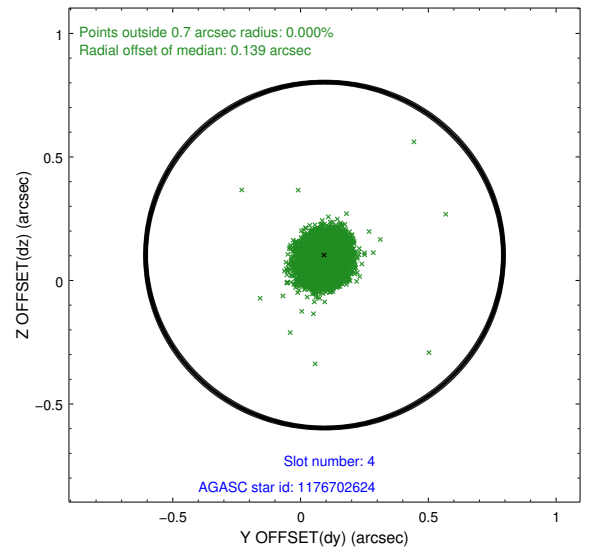
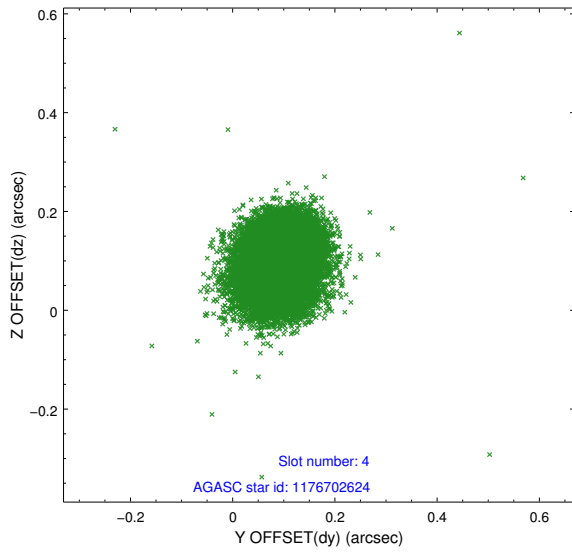
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.03 | 7520 | 0.119 | -0.090 | 0.019 | 0.040 | 0.000000 | 0.000000 | 923.98 | -1003.25 |
| 1 | FID | ACIS-I-5 | 7.02 | 7518 | -0.258 | 0.103 | 0.022 | 0.032 | 0.000000 | 0.000000 | -1824.48 | 894.36 |
| 2 | FID | ACIS-I-6 | 7.04 | 7518 | 0.048 | 0.057 | 0.009 | 0.015 | 0.000000 | 0.000000 | 389.37 | 1538.91 |
| 3 | GUIDE | 1176658064 | 7.43 | 14964 | 0.373 | 0.027 | 0.066 | 0.110 | 178.134221 | -63.170194 | -1968.45 | 2133.84 |
| 4 | GUIDE | 1176702624 | 8.05 | 15037 | 0.094 | 0.103 | 0.068 | 0.110 | 178.870254 | -62.196422 | -1714.05 | -1567.76 |
| 5 | GUIDE | 1176117168 | 8.23 | 15026 | 0.260 | 0.065 | 0.071 | 0.119 | 176.728342 | -61.696432 | 2330.03 | -1759.10 |
| 6 | GUIDE | 1176702896 | 8.69 | 15030 | -0.412 | 0.044 | 0.079 | 0.127 | 176.696093 | -62.110151 | 1758.03 | -382.61 |
| 7 | GUIDE | 1176707896 | 7.71 | 15033 | -0.322 | -0.224 | 0.097 | 0.154 | 177.710628 | -62.645953 | -577.44 | 681.65 |

2.4 Star Slots

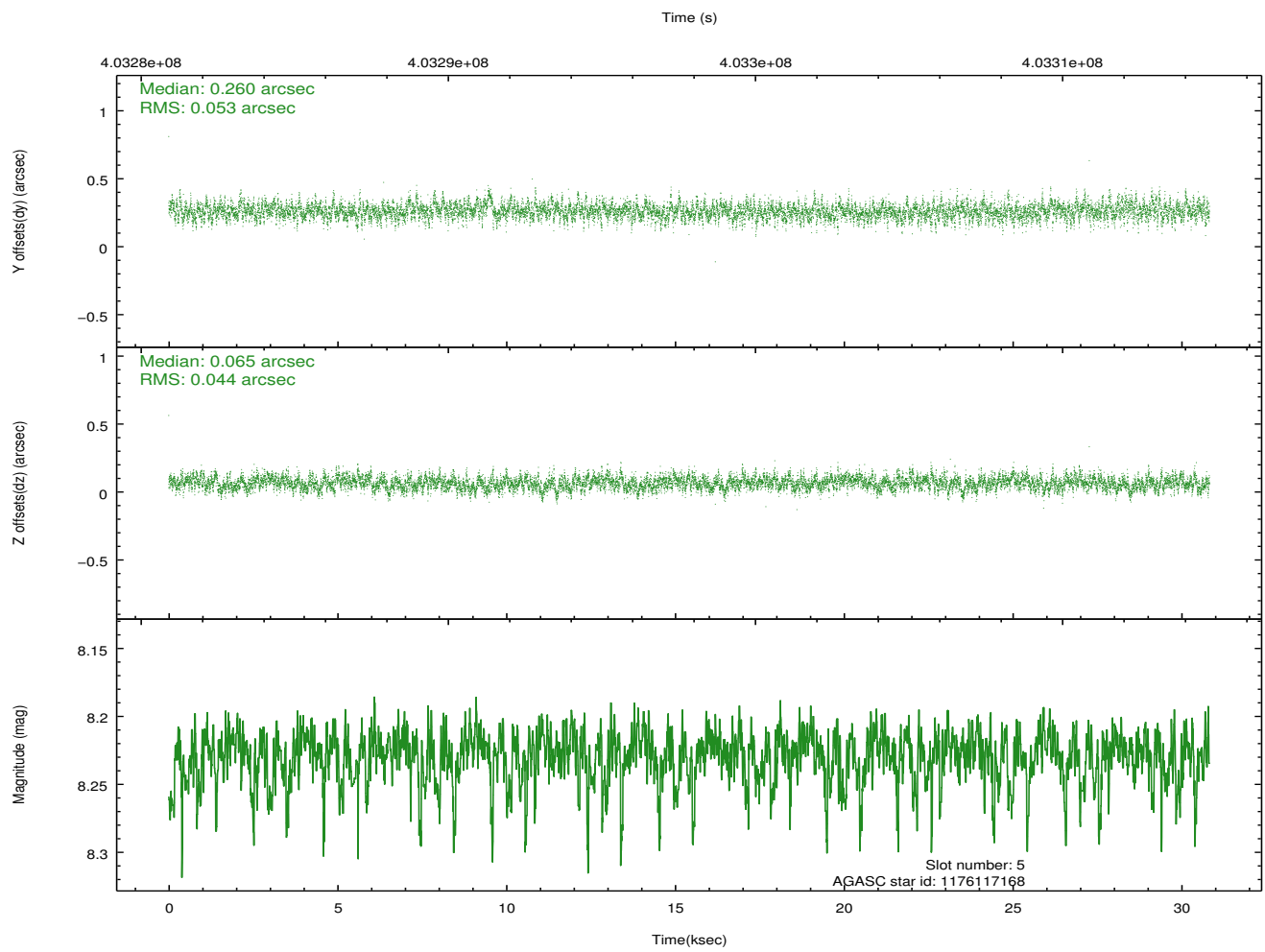
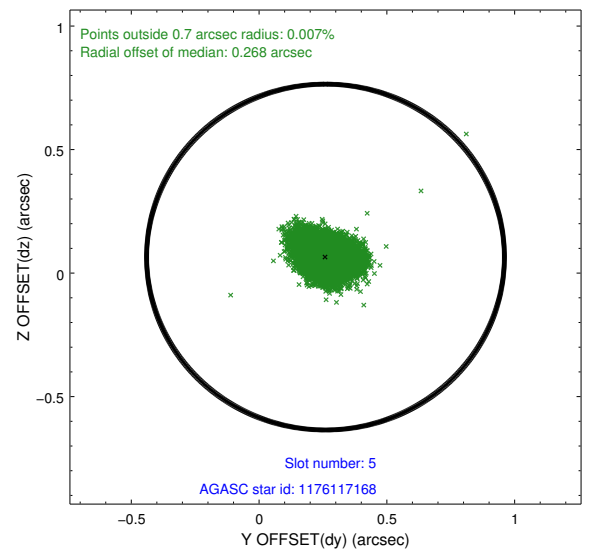
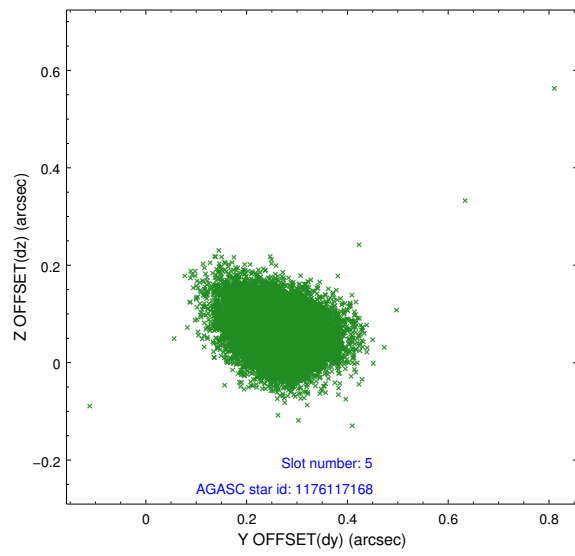
2.4.1 Slot 3



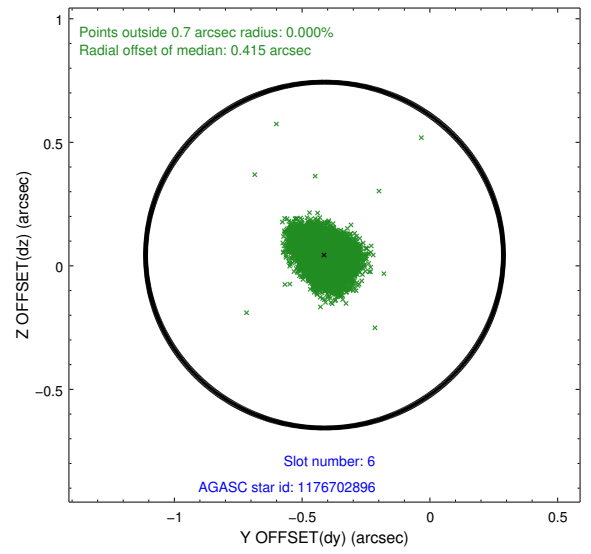
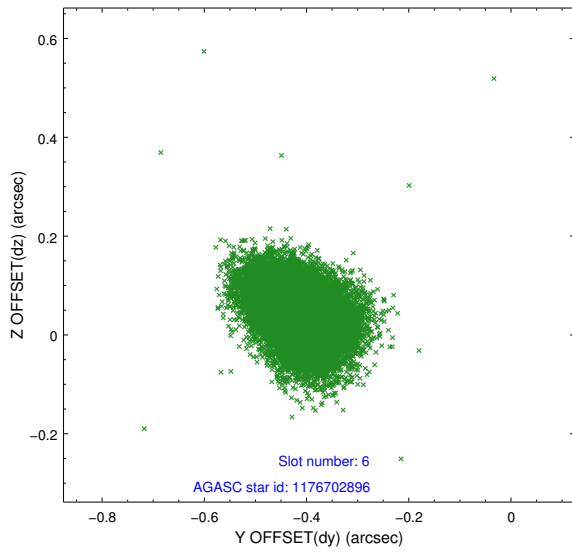
2.4.2 Slot 4



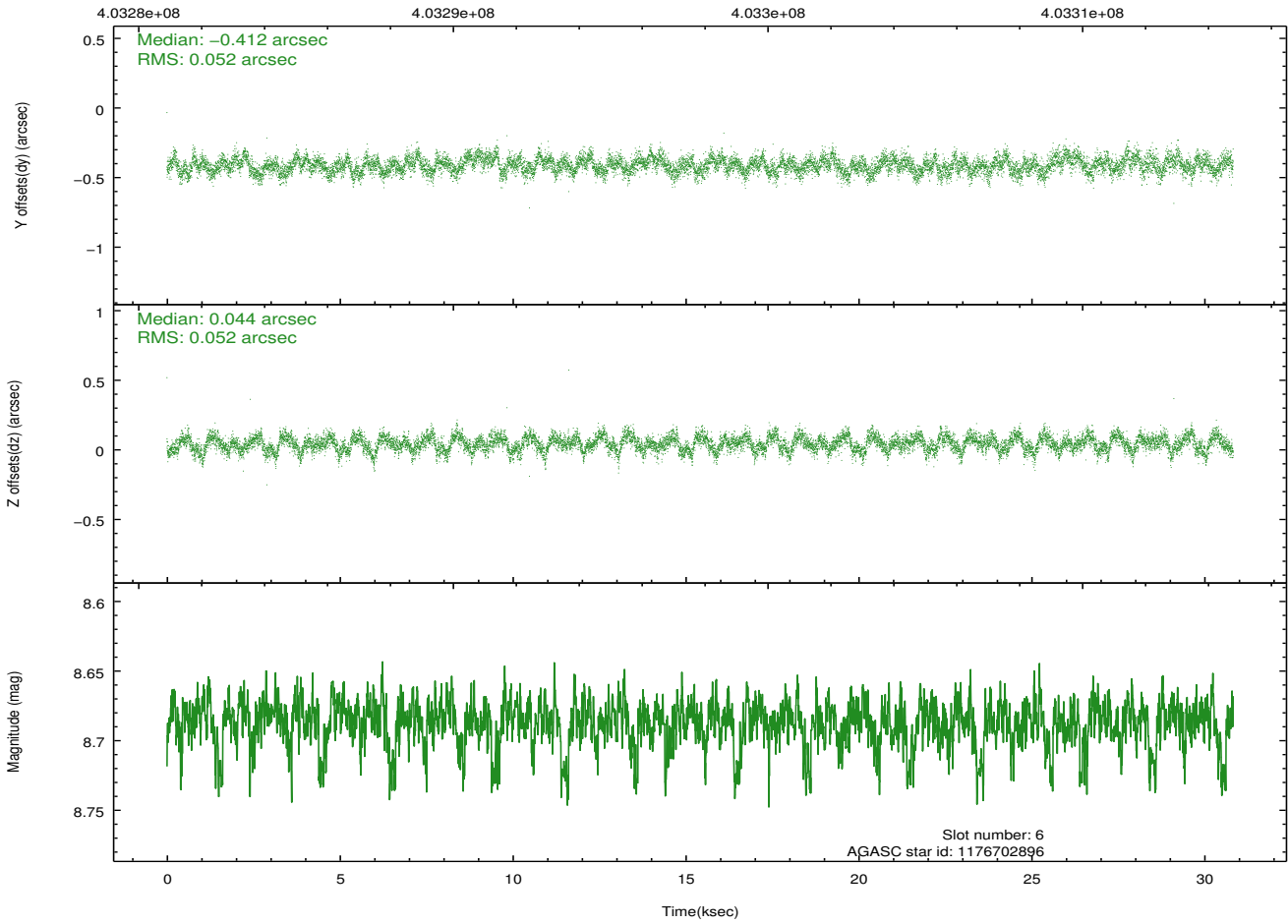
2.4.3 Slot 5



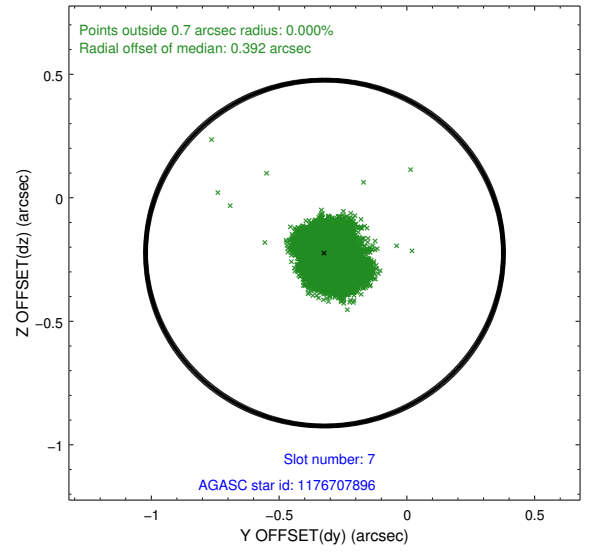
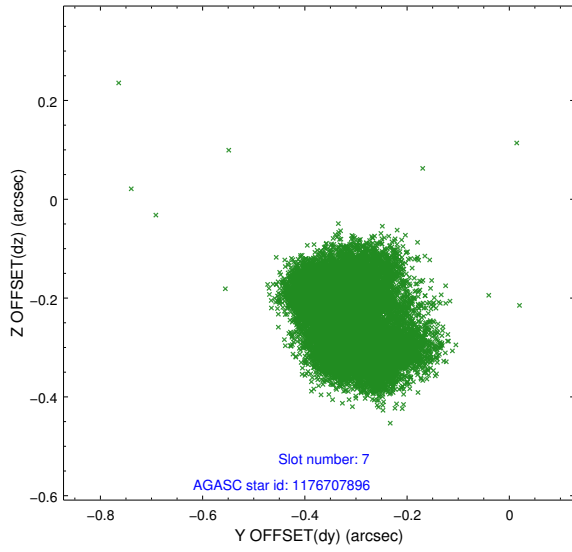
2.4.4 Slot 6



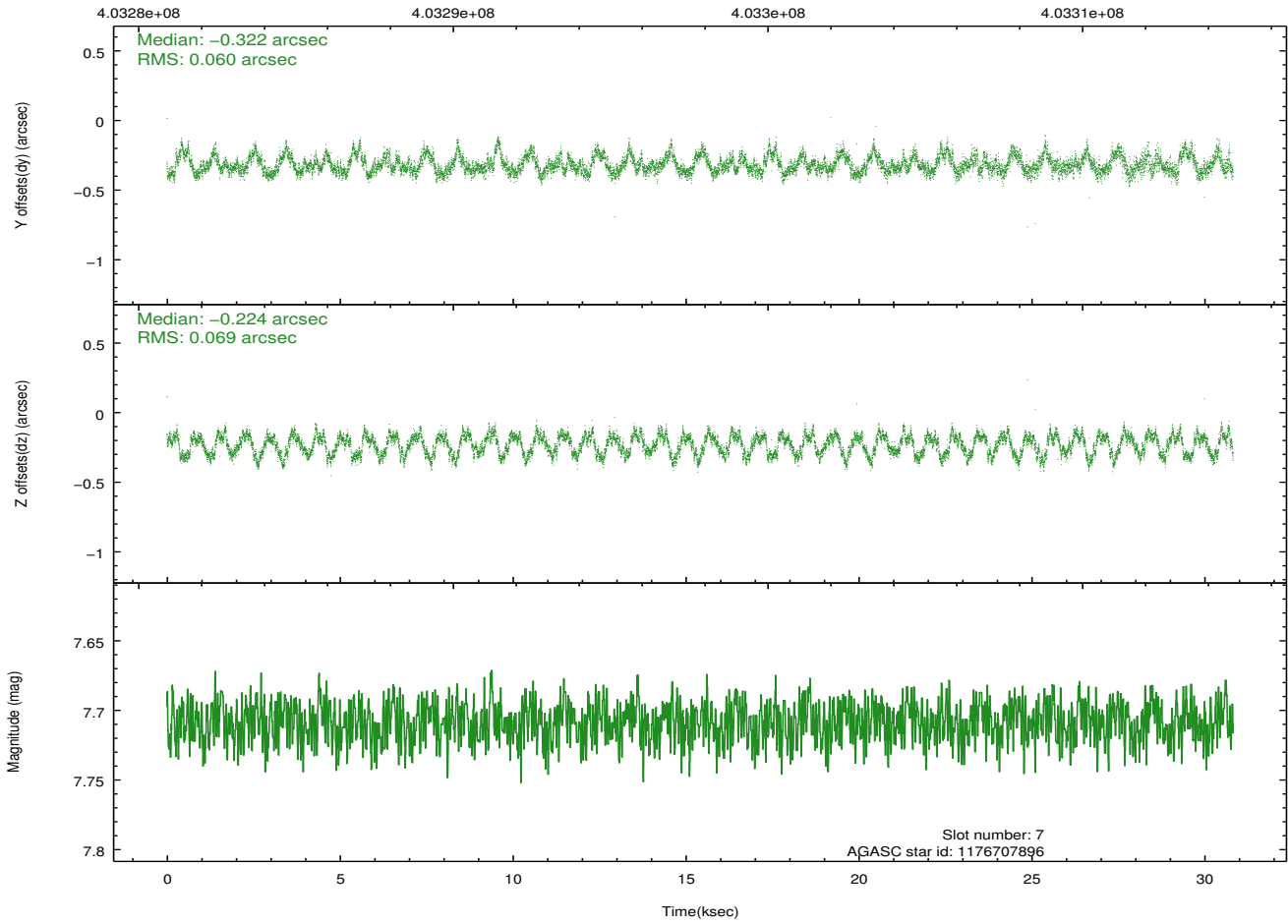
Time (s)



2.4.5 Slot 7

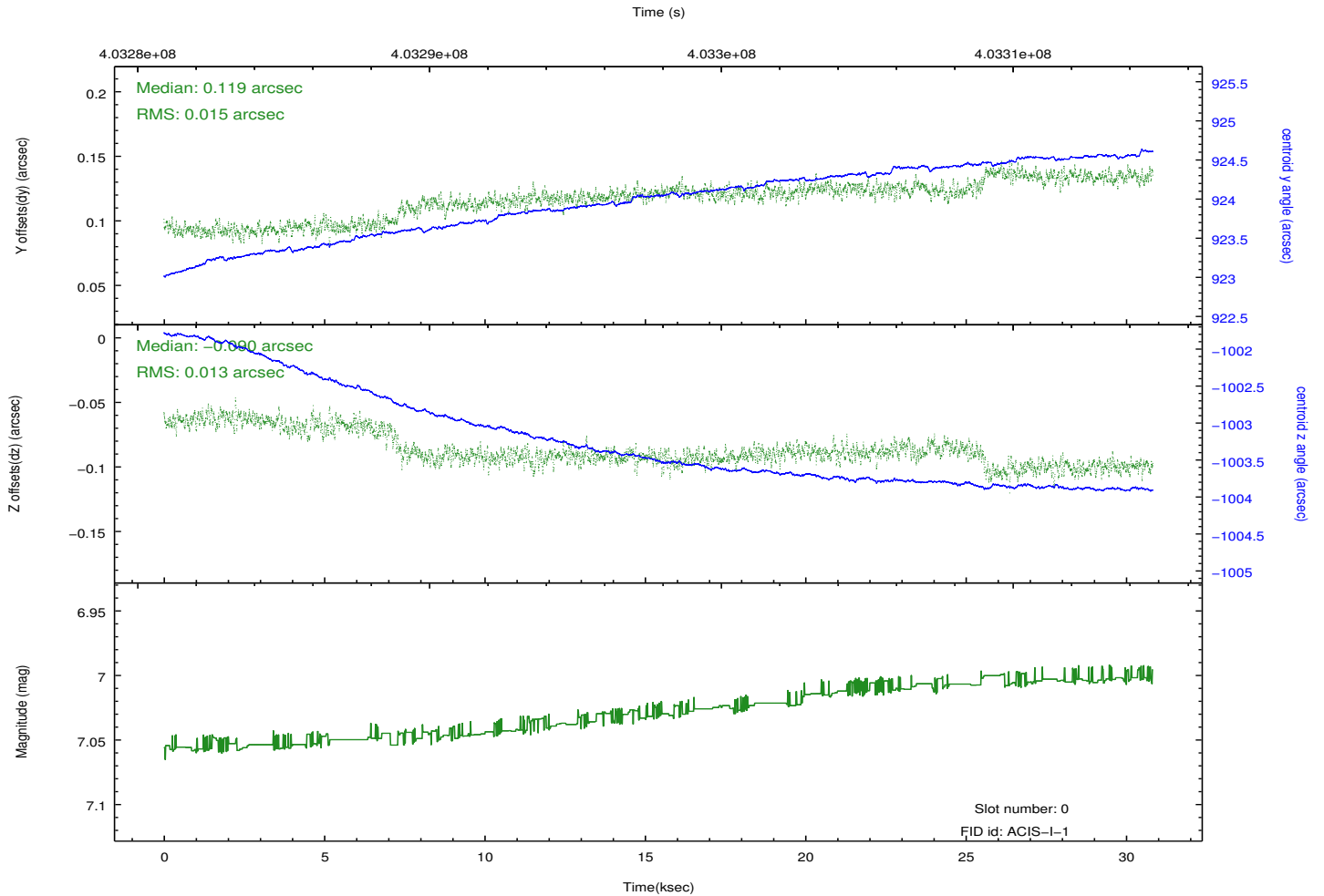
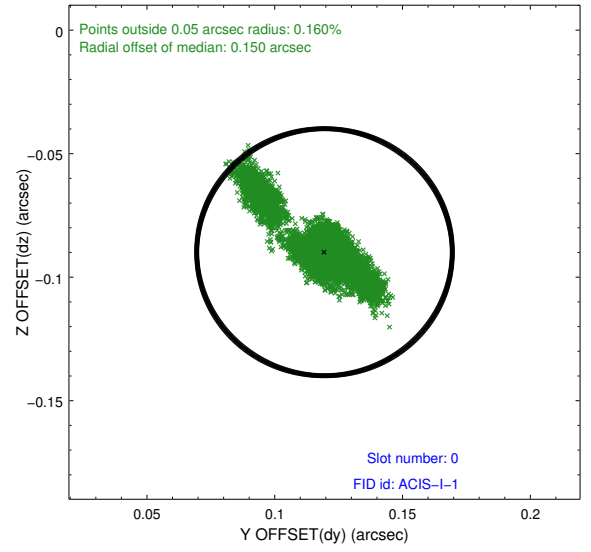
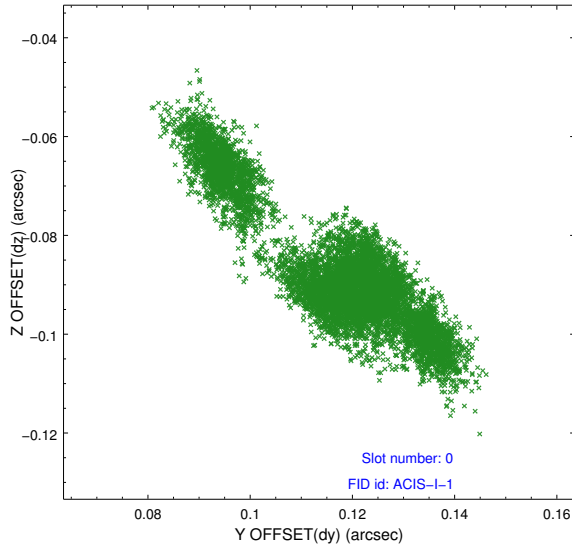


Time (s)

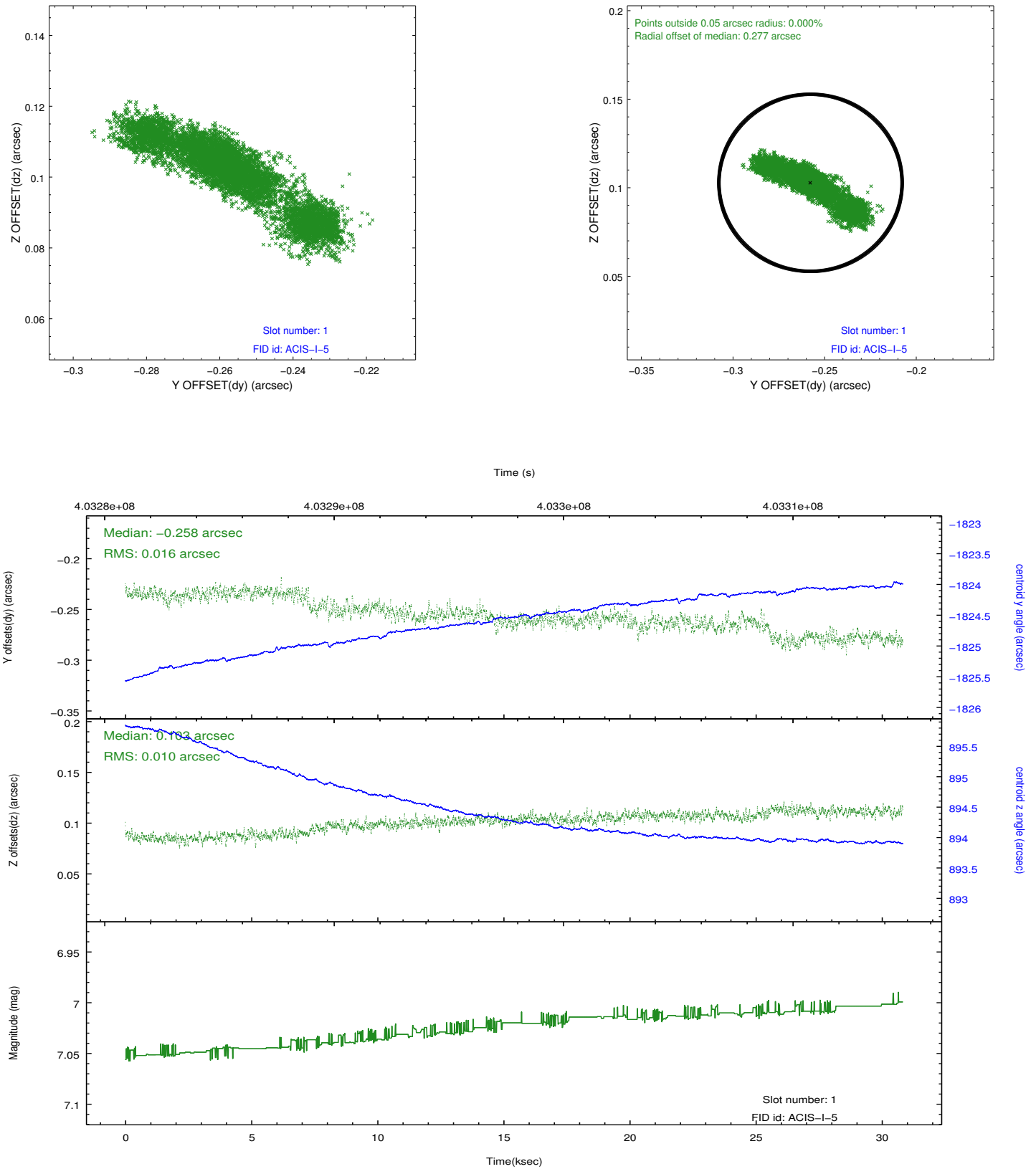


2.5 FID Slots

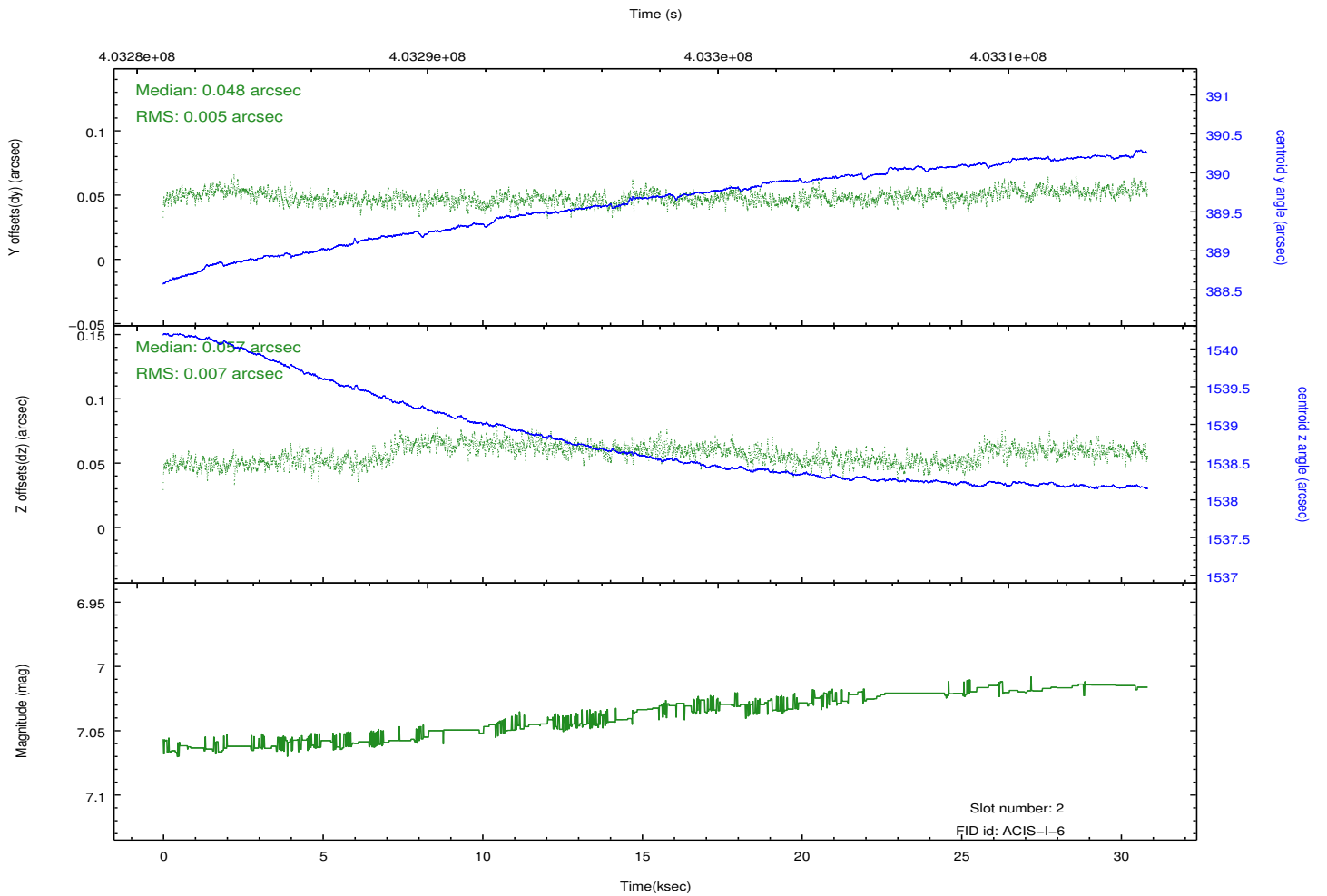
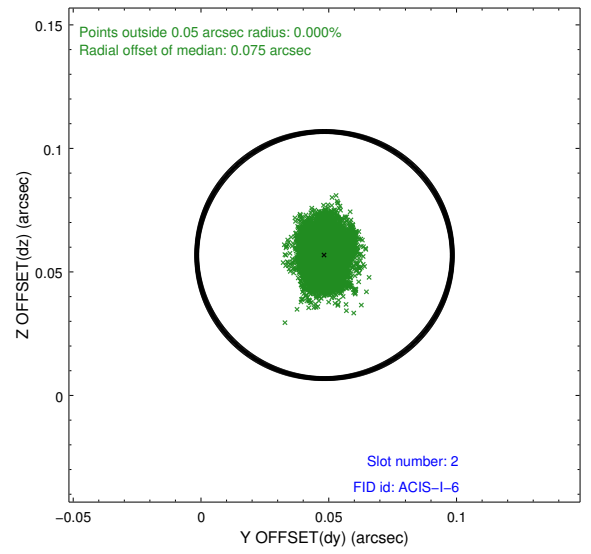
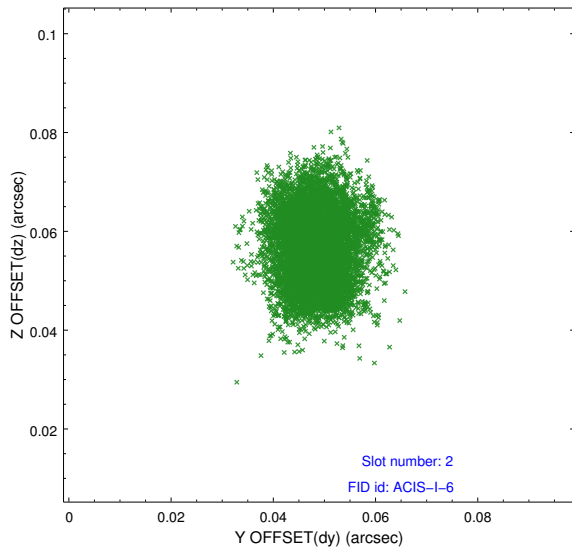
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.07.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 30.048300231099 |

A.2 Comments