

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 13979 - L2 Version 1
Chandra X-Ray Center

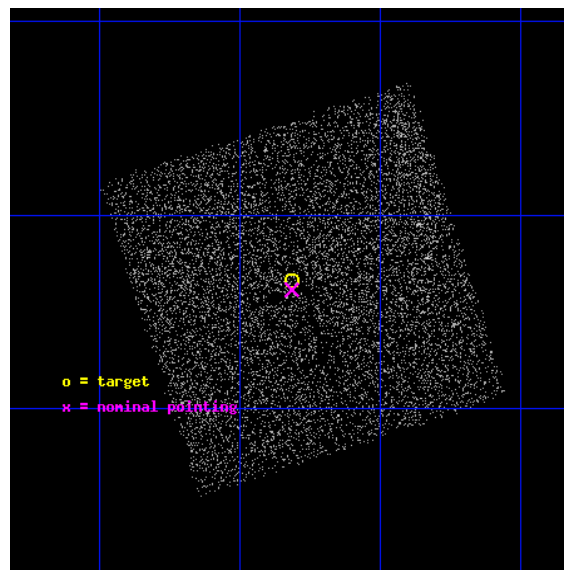
L2 Processing Date : May 26 2012

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1 Front

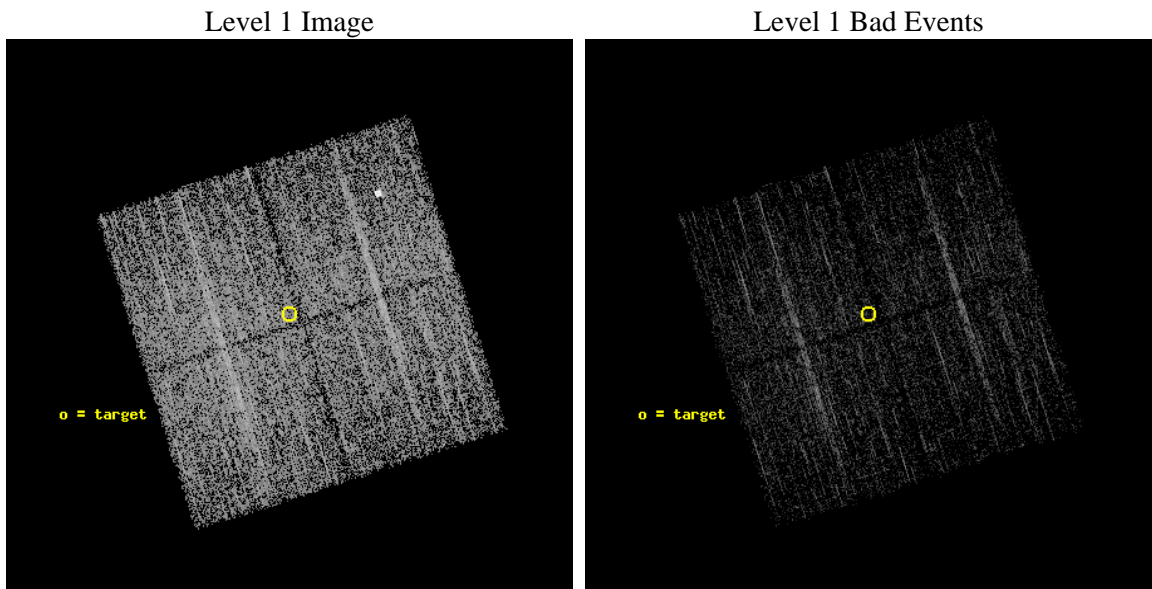
| | | |
|----------|---|---|
| seq_num | 702700 | Sequence number |
| obs_id | 13979 | Observation id |
| title | Chandra observations of the faintest hard X-ray sources in the SIX survey | Proposal title |
| observer | Dr Eugenio Bottacini | Principal investigator |
| object | six-5 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 192.82875 | Observer's specified target RA [deg] |
| dec_targ | -11.722889 | Observer's specified target Dec [deg] |
| ra_nom | 192.8286502699 | Nominal RA [deg] |
| dec_nom | -11.730971928365 | Nominal Dec [deg] |
| roll_nom | 252.27909632648 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 5086.8442831635 | Sum of GTIs [s] |
| livetime | 5020.3809177237 | Livetime [s] |
| ontime0 | 5086.7211631536 | Sum of GTIs [s] |
| ontime1 | 5086.7622031569 | Sum of GTIs [s] |
| ontime2 | 5086.8032431602 | Sum of GTIs [s] |
| ontime3 | 5086.8442831635 | Sum of GTIs [s] |
| l2events | 11863 | Number of level 2 events |



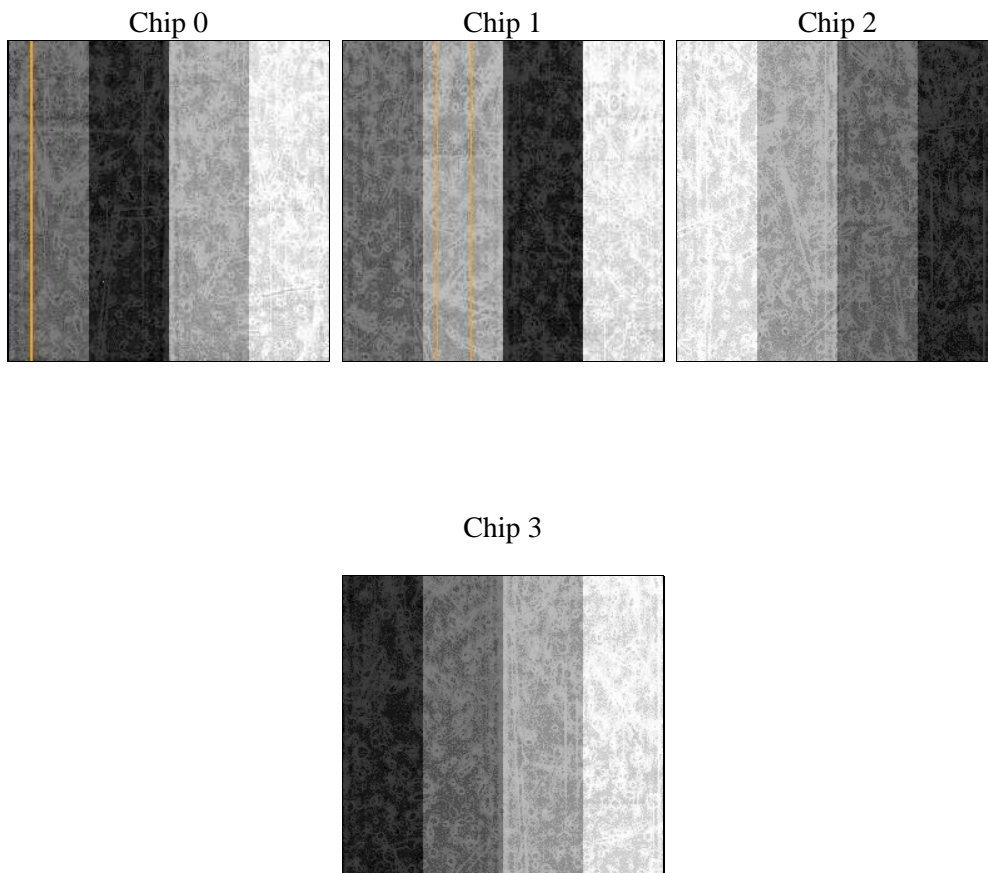
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 5086.8442831635 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 5086.7211631536 | Sum of GTIs [s] |
| date | 2012-05-26T17:00:43 | Date and time of file creation | ontime1 | 5086.7622031569 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 5086.8032431602 | Sum of GTIs [s] |
| | | | ontime3 | 5086.8442831635 | Sum of GTIs [s] |
| | | | l1events | 118300 | Number of level 1 events |

2.1.4 Events

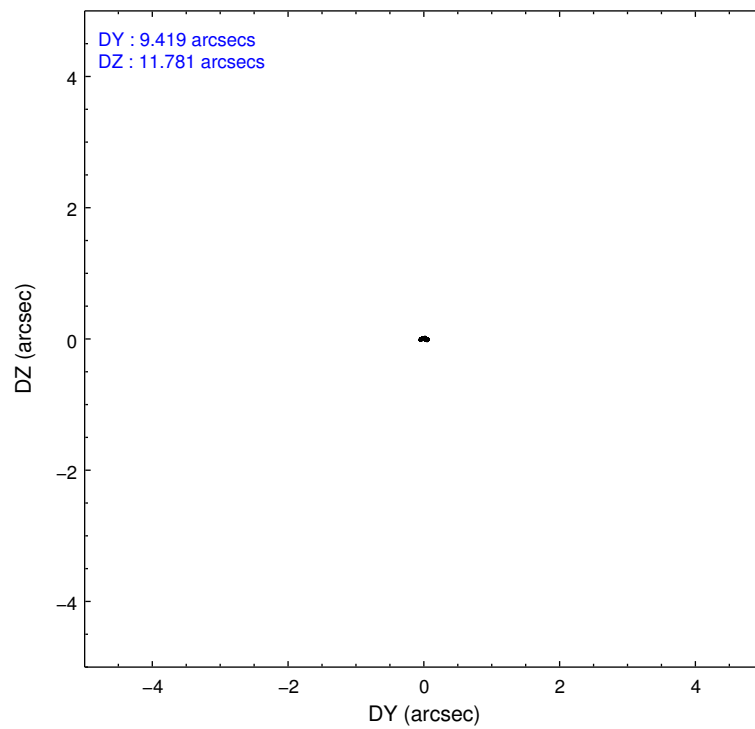
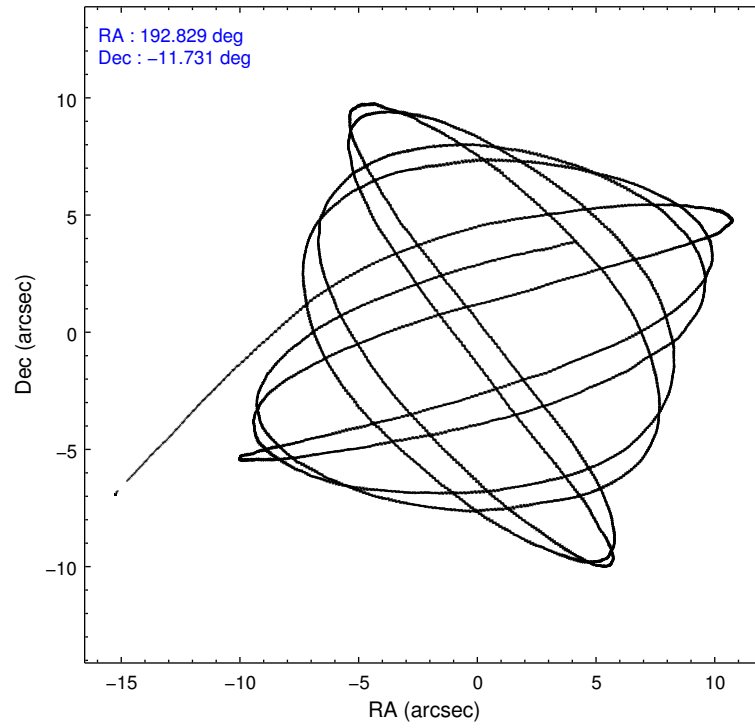
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 27397 | 29155 | 30789 | 30959 |
| rejected events | 23917 | 23638 | 27414 | 27615 |
| rejected % | 87% | 81% | 89% | 89% |

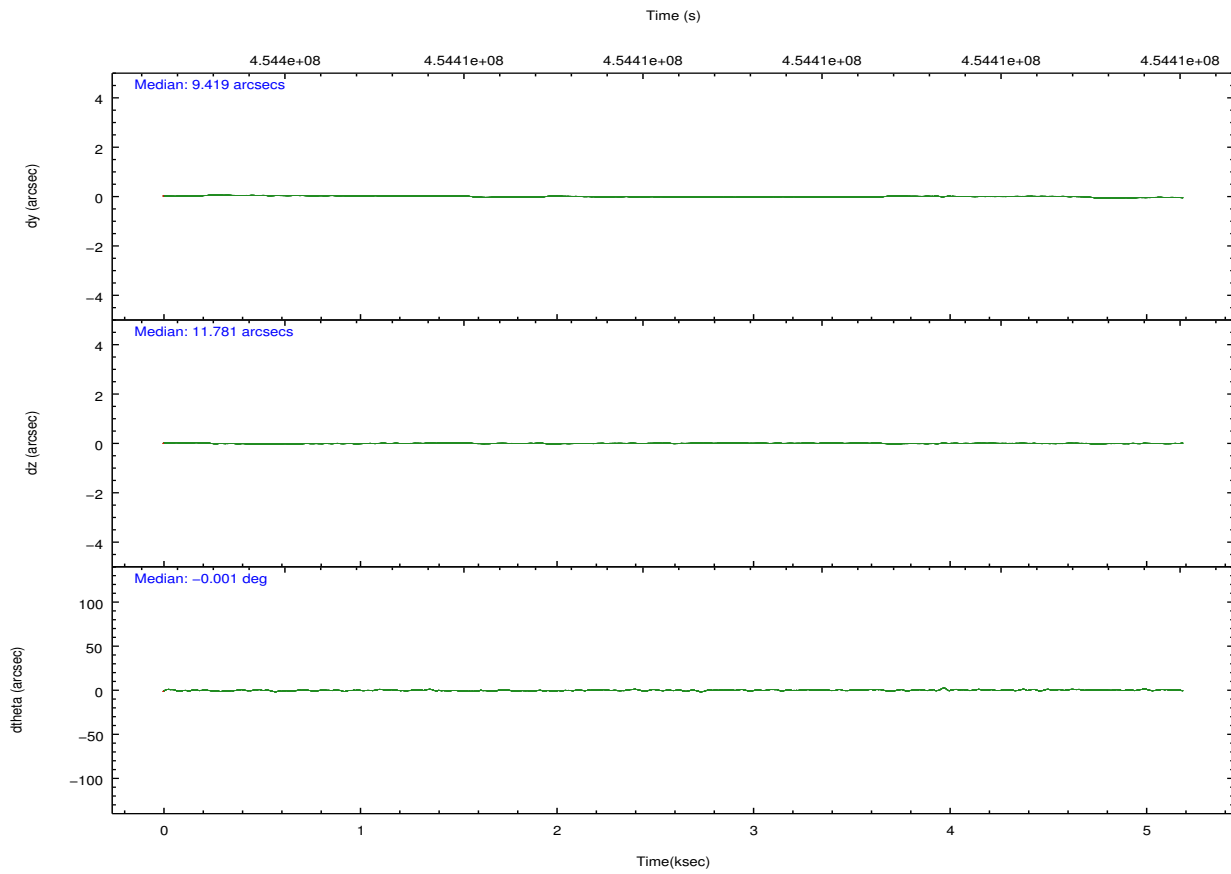
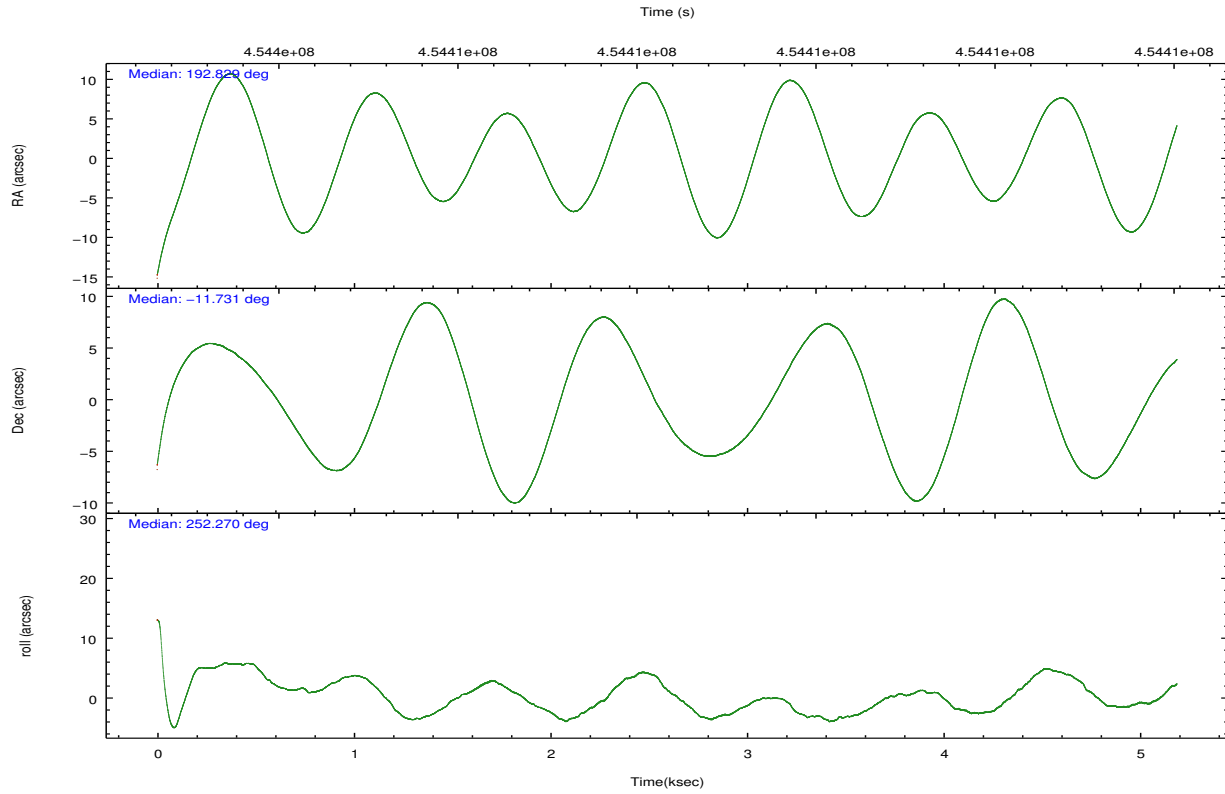
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 1250 | 2976 | 1252 | 1197 |
| | 4% | 10% | 4% | 3% |
| grade 1 events | 10 | 21 | 10 | 22 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 811 | 969 | 803 | 780 |
| | 2% | 3% | 2% | 2% |
| grade 3 events | 371 | 416 | 351 | 366 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 325 | 375 | 340 | 323 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 1366 | 1395 | 1238 | 1521 |
| | 4% | 4% | 4% | 4% |
| grade 6 events | 724 | 789 | 631 | 682 |
| | 2% | 2% | 2% | 2% |
| grade 7 events | 22540 | 22214 | 26164 | 26068 |
| | 82% | 76% | 84% | 84% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-0123 | ACIS-0123 | 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 | 192.822606 | 192.8286502699026 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -11.704121 | -11.73097192836501 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 252.069128 | 252.2790963264838 | [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 | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 454404761.184000 | 454403564.00321 | | | |
| Observation start date | 2012-05-26T07:31:35 | 2012-05-26T07:12:44 | | | |
| [s] Observation end time (MET) | 454409761.184000 | 454410727.72859 | | | |
| Observation end date | 2012-05-26T08:54:55 | 2012-05-26T09:12:07 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



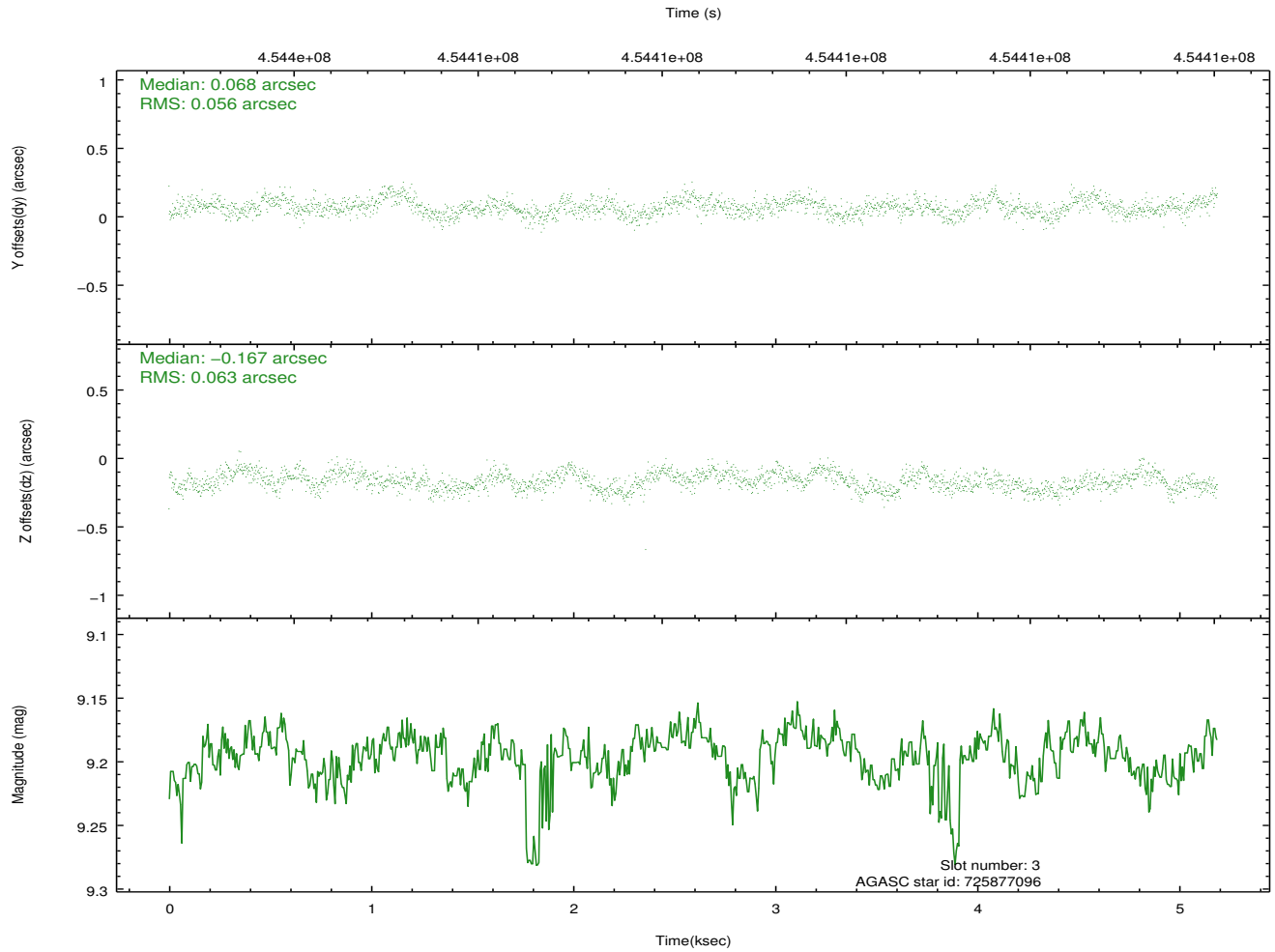
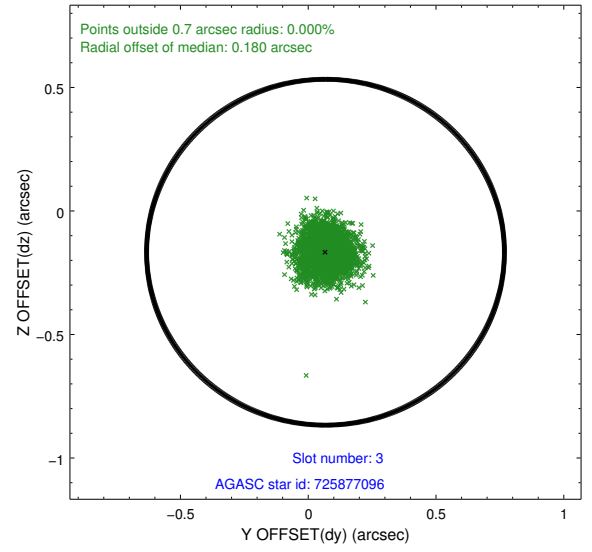


Slot Statistics

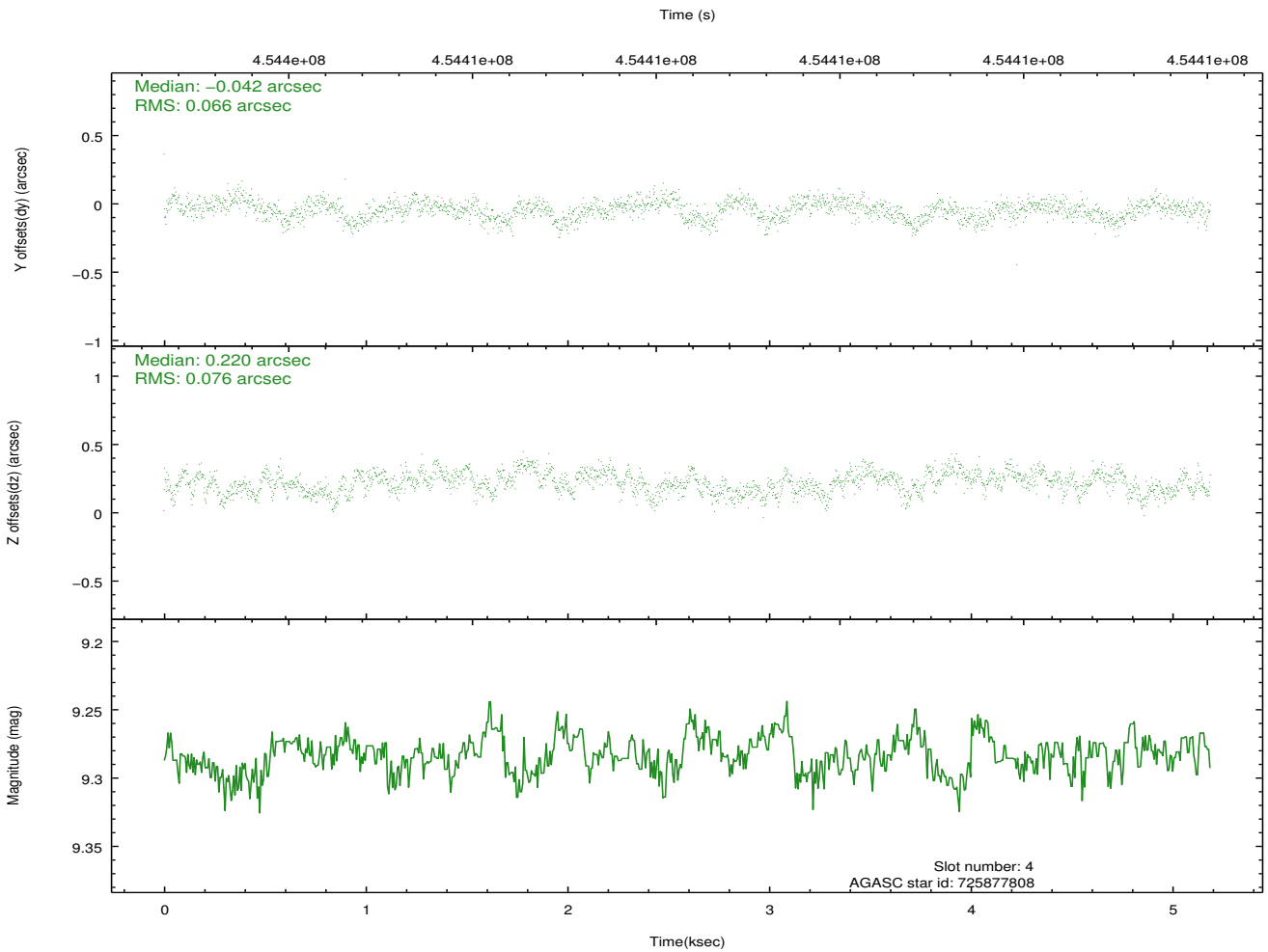
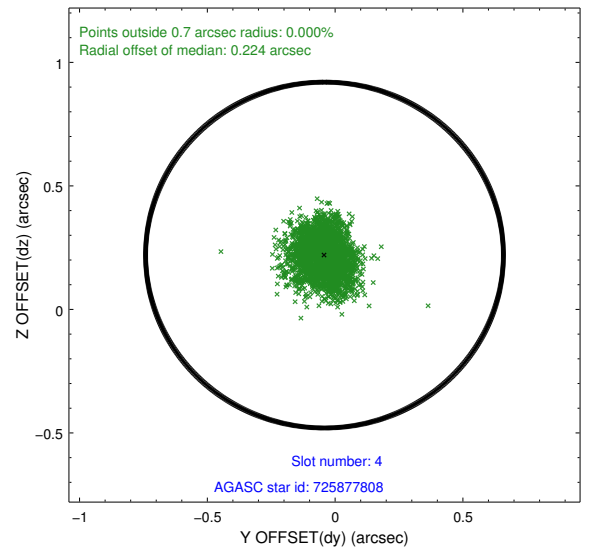
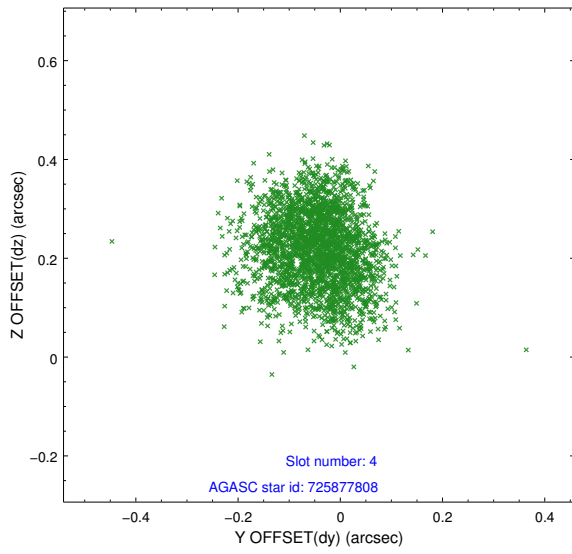
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.13 | 1266 | 0.037 | -0.067 | 0.008 | 0.014 | 0.000000 | 0.000000 | 930.22 | -835.37 |
| 1 | FID | ACIS-I-4 | 7.03 | 1266 | 0.141 | 0.053 | 0.007 | 0.013 | 0.000000 | 0.000000 | 2151.04 | 1063.95 |
| 2 | FID | ACIS-I-5 | 7.10 | 1266 | -0.277 | 0.085 | 0.006 | 0.012 | 0.000000 | 0.000000 | -1816.57 | 1063.21 |
| 3 | GUIDE | 725877096 | 9.19 | 2525 | 0.068 | -0.167 | 0.091 | 0.144 | 193.317150 | -11.515392 | -1181.98 | 1451.07 |
| 4 | GUIDE | 725877808 | 9.28 | 2532 | -0.042 | 0.220 | 0.107 | 0.173 | 192.787005 | -11.267004 | -1458.67 | -603.69 |
| 5 | GUIDE | 725878776 | 9.04 | 2521 | -0.010 | -0.171 | 0.106 | 0.167 | 192.833157 | -11.845144 | 471.52 | 191.31 |
| 6 | GUIDE | 725880632 | 8.96 | 2531 | -0.117 | 0.175 | 0.090 | 0.144 | 193.296522 | -11.921361 | 231.56 | 1830.27 |
| 7 | GUIDE | 725889792 | 9.30 | 2529 | 0.106 | -0.050 | 0.123 | 0.181 | 192.339846 | -11.932371 | 1307.41 | -1363.77 |

2.4 Star Slots

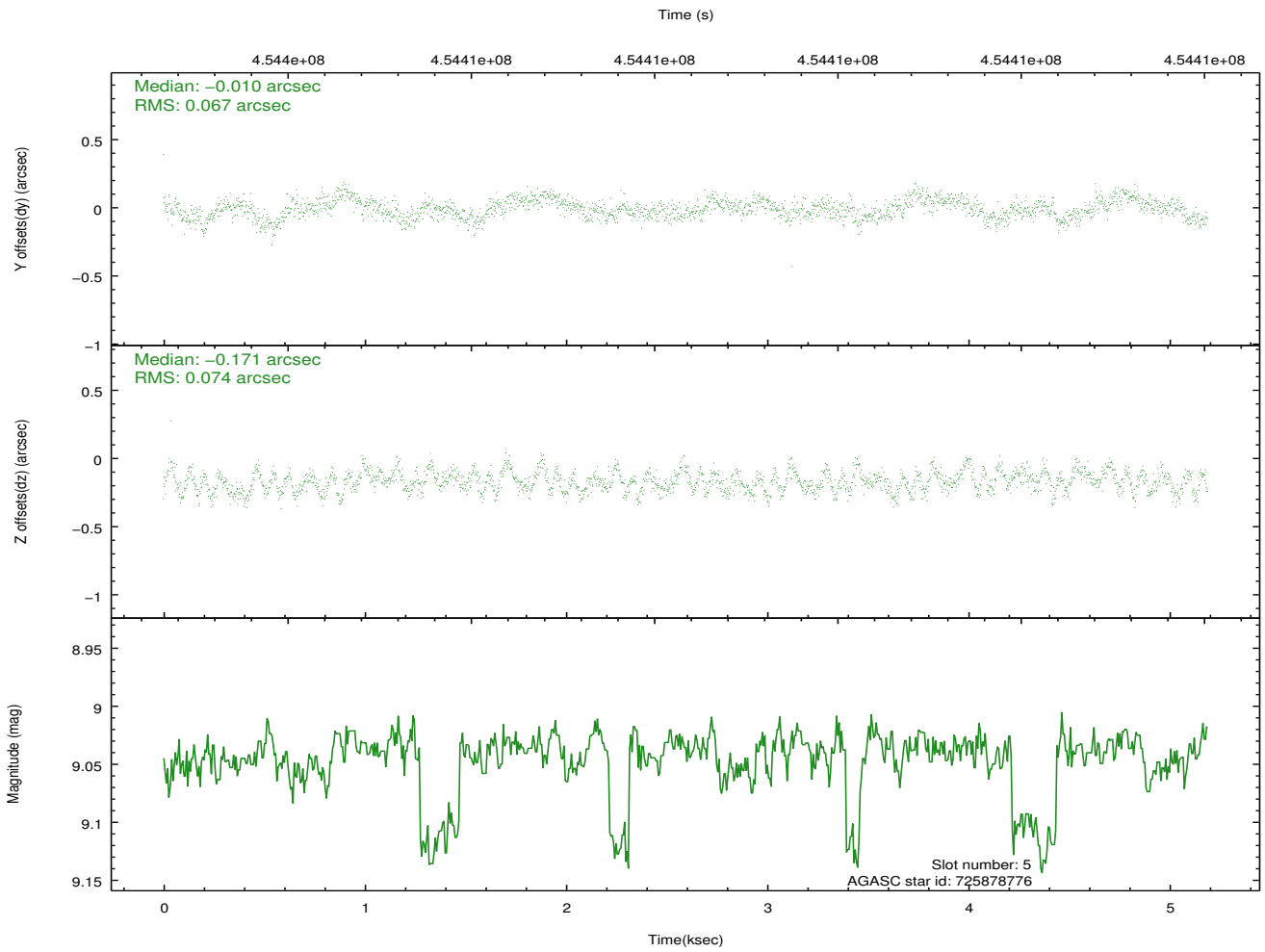
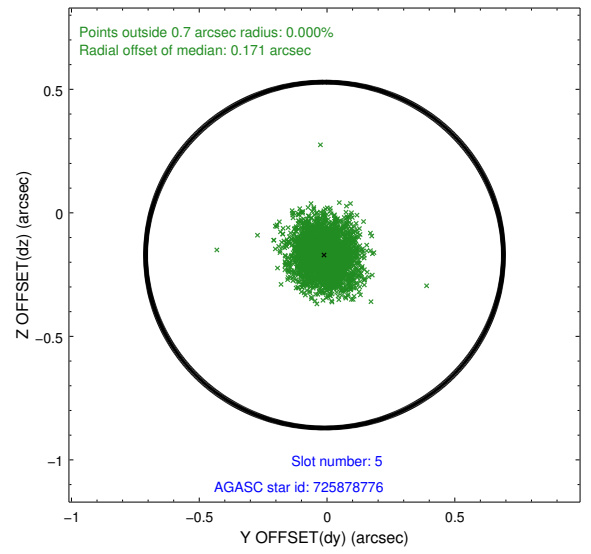
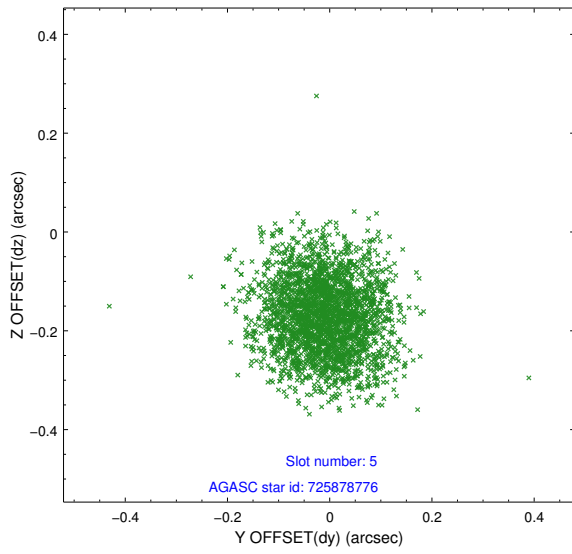
2.4.1 Slot 3



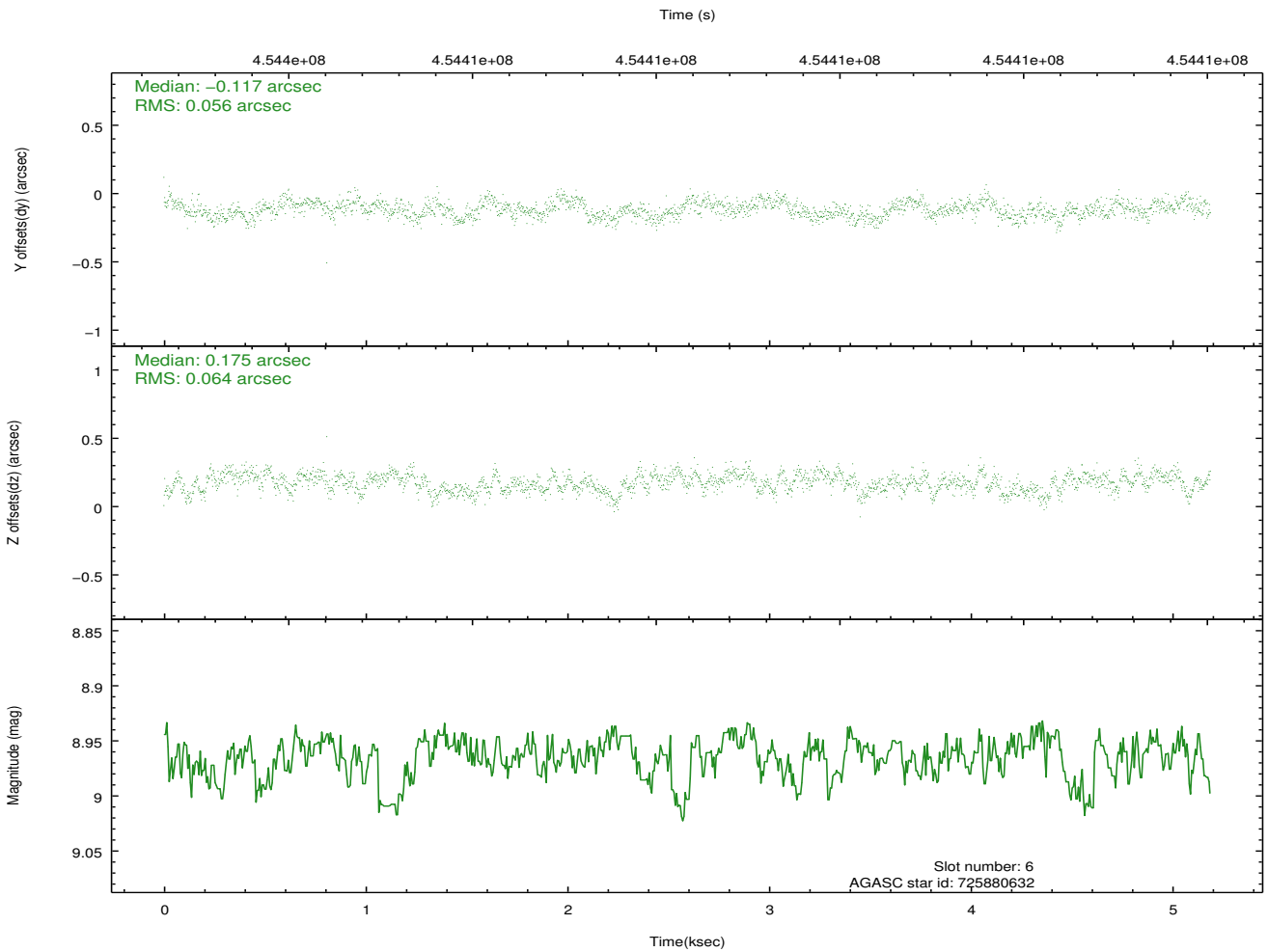
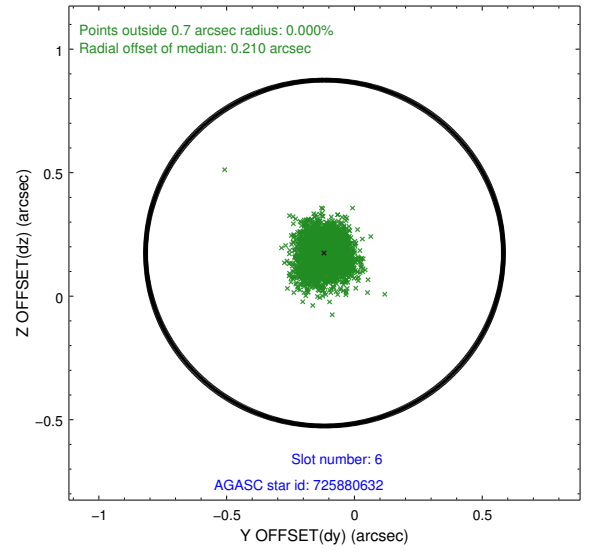
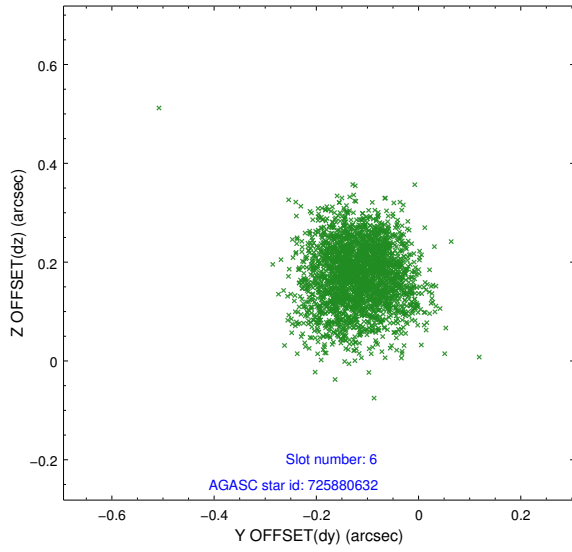
2.4.2 Slot 4



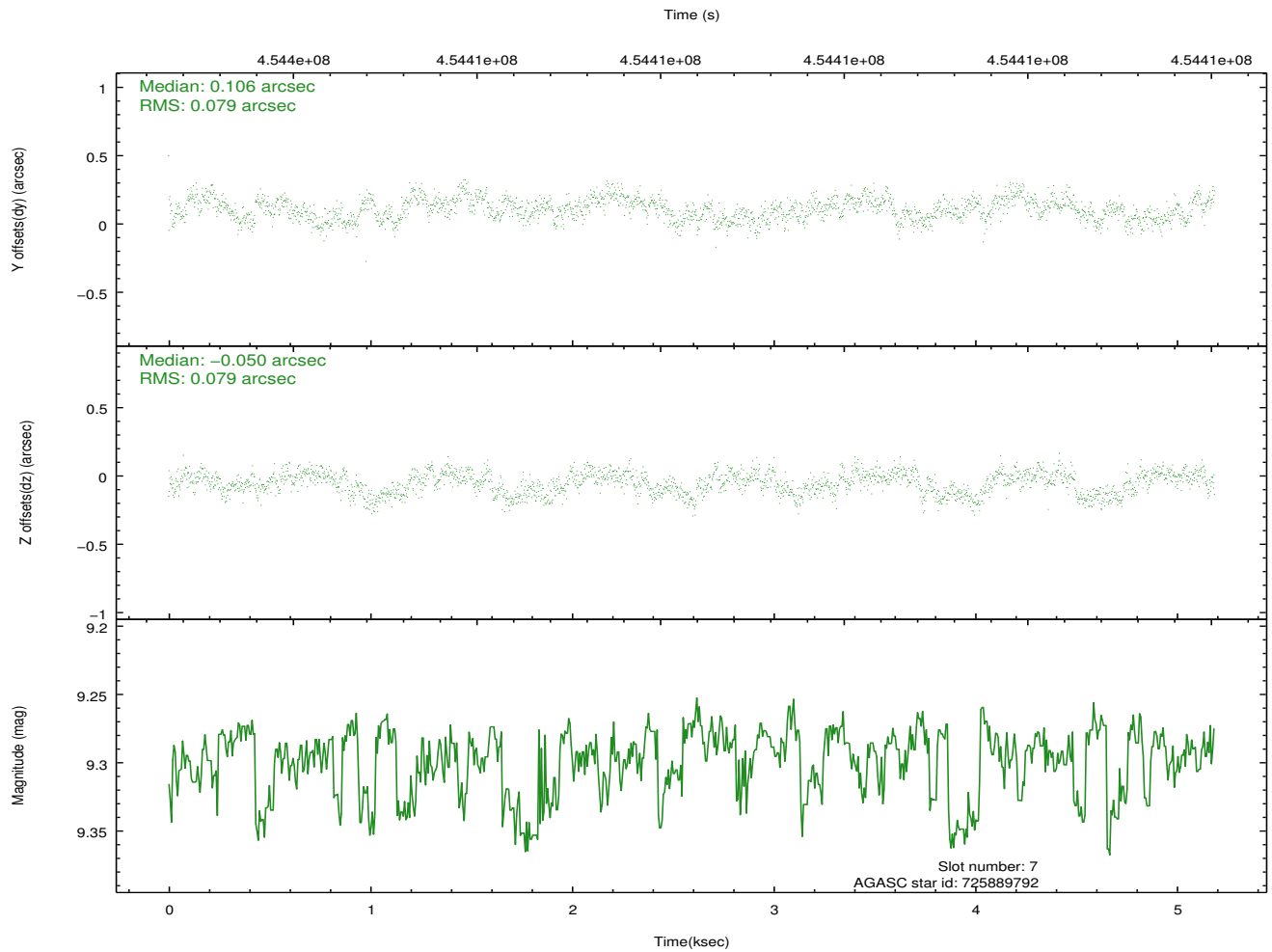
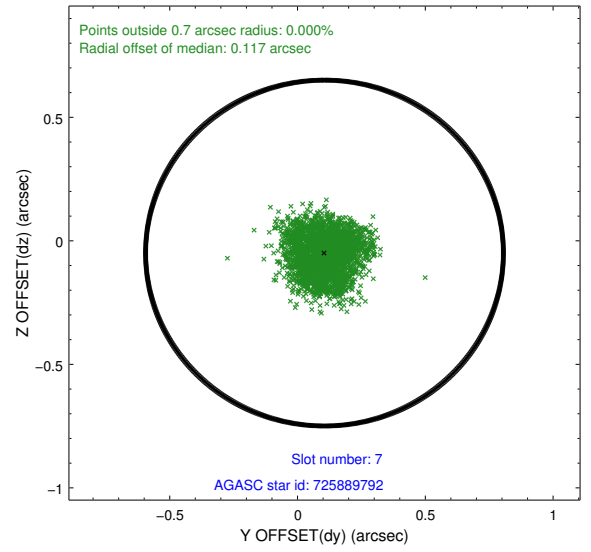
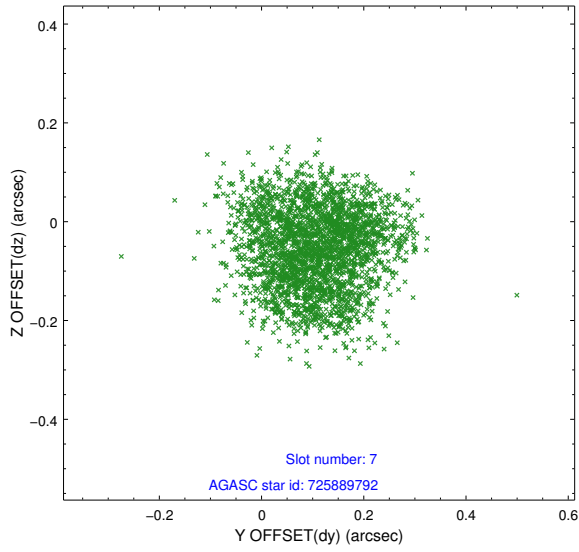
2.4.3 Slot 5



2.4.4 Slot 6

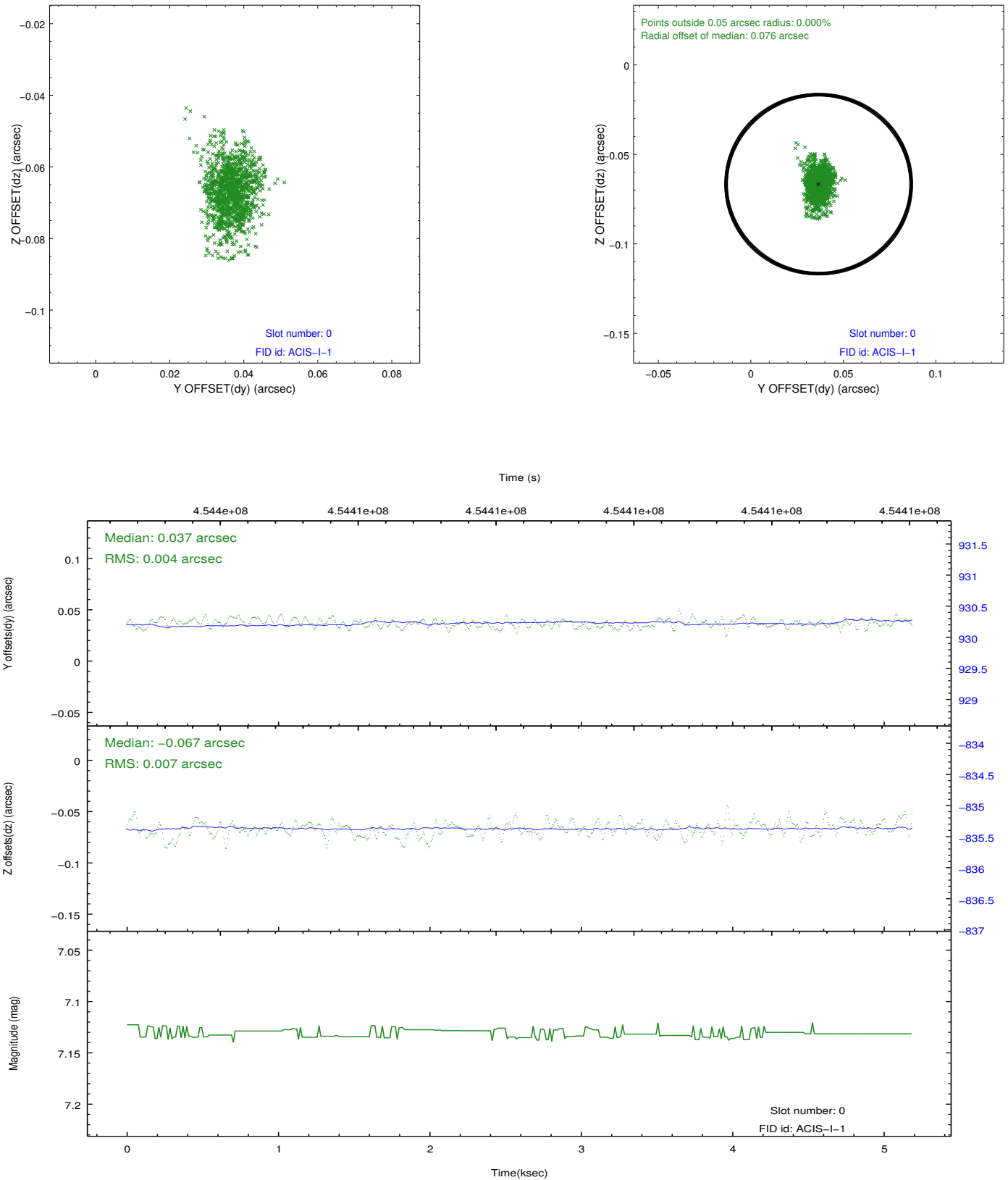


2.4.5 Slot 7

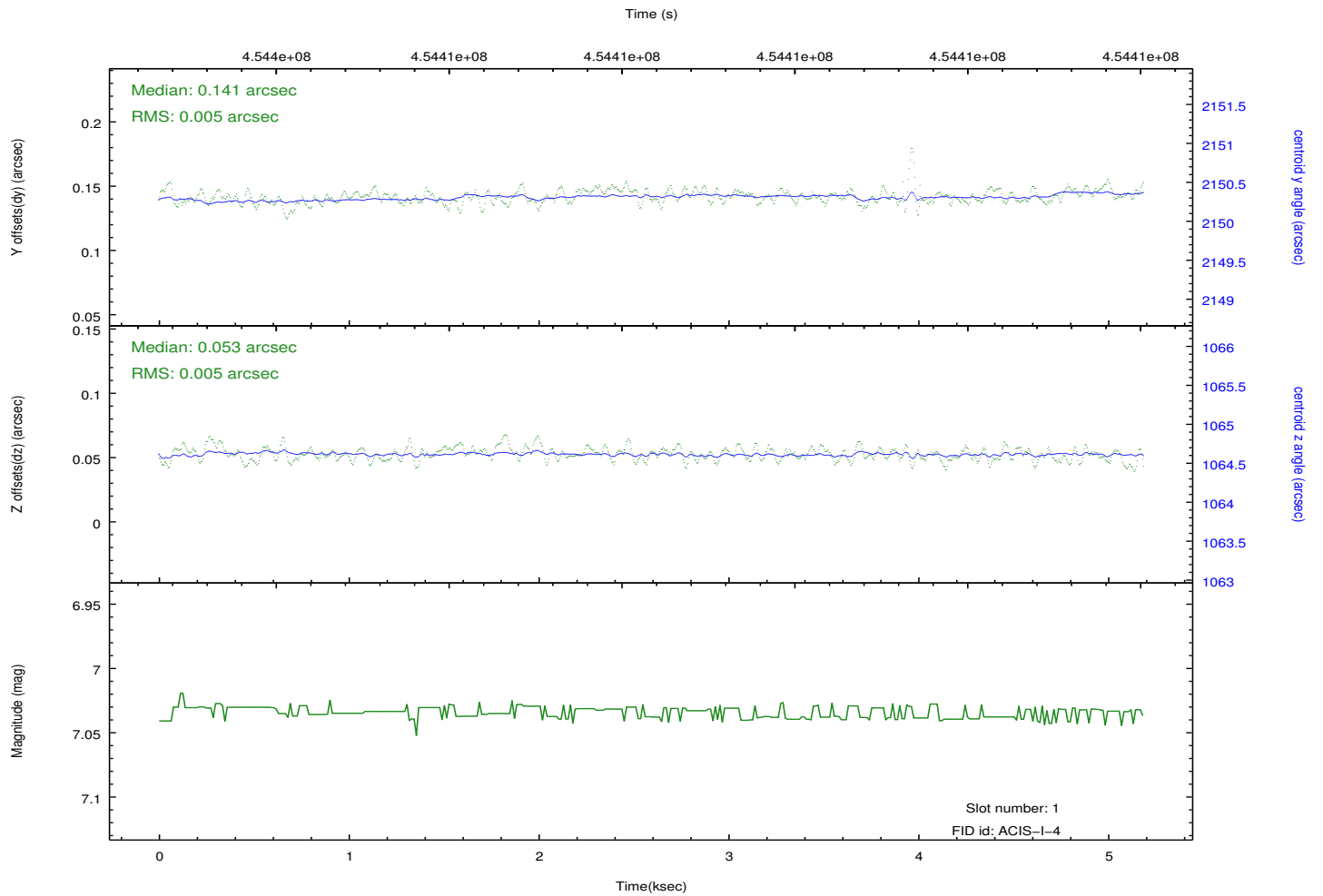
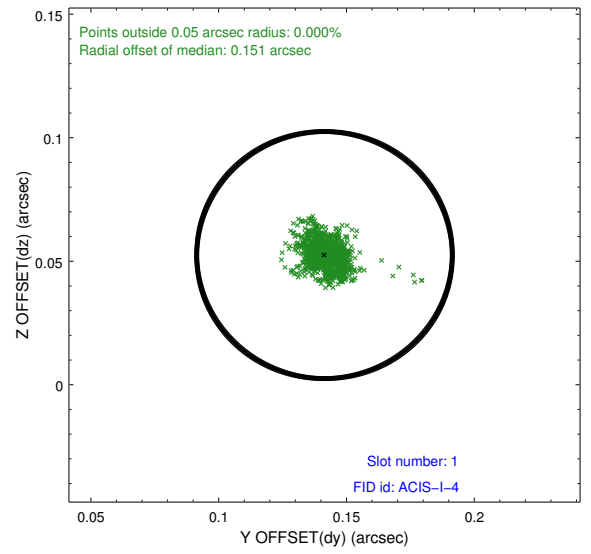
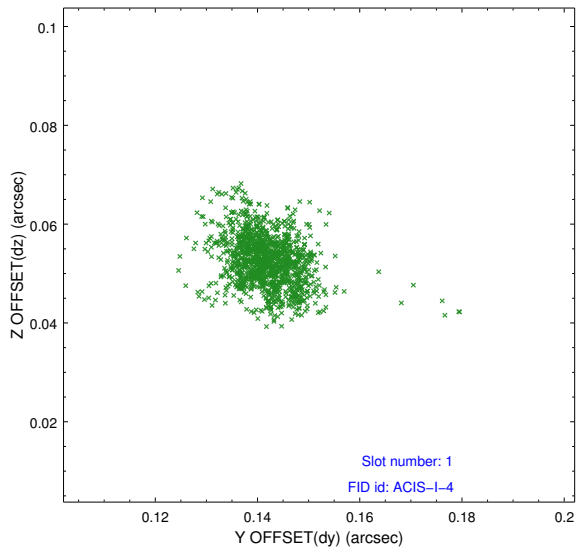


2.5 FID Slots

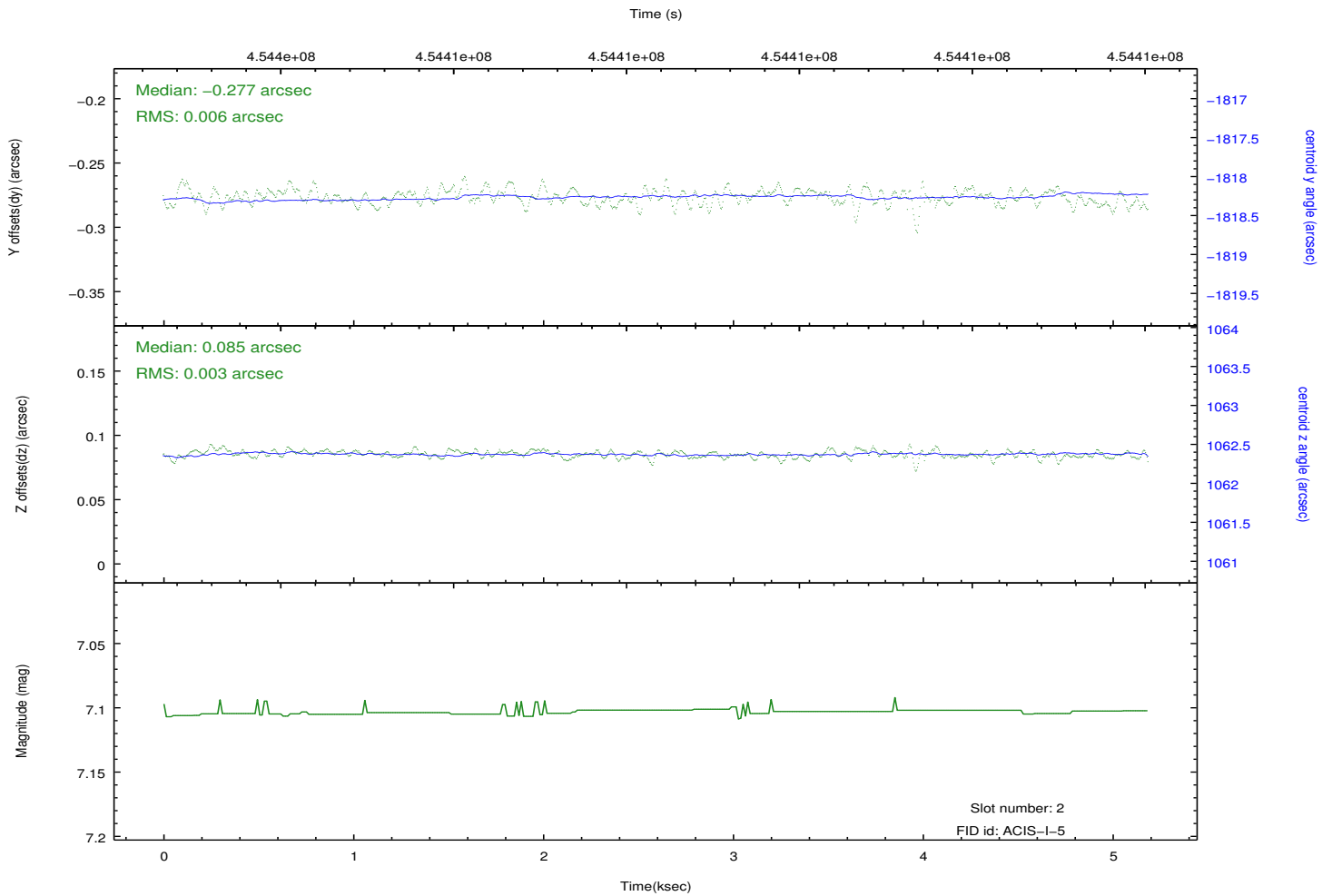
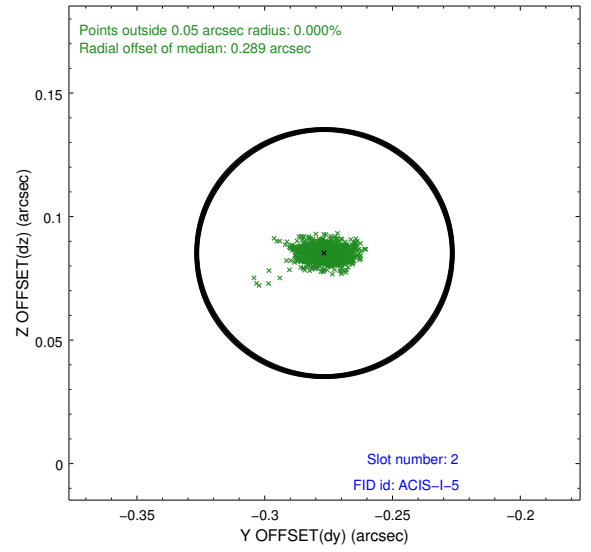
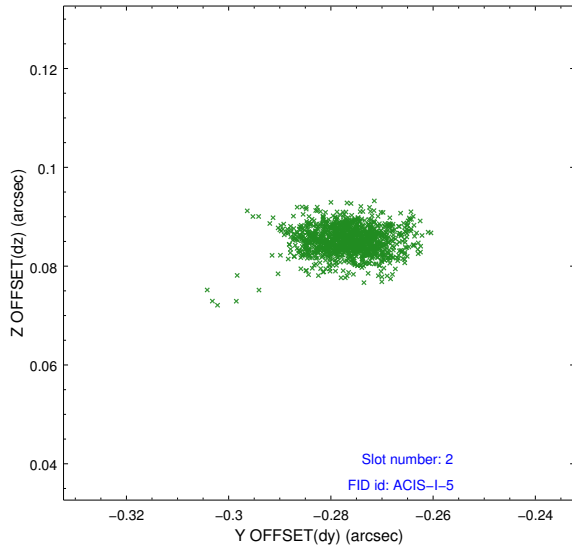
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.05.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.0868442831635 |

A.2 Comments