

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12028 - L2 Version 2
Chandra X-Ray Center

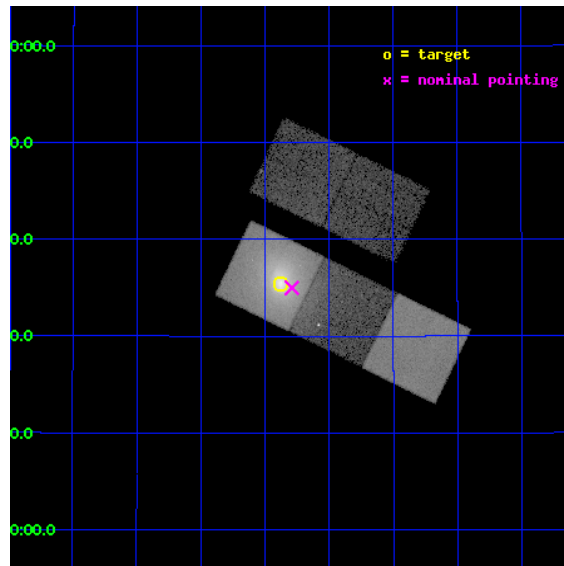
L2 Processing Date : Jun 25 2012

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1 Front

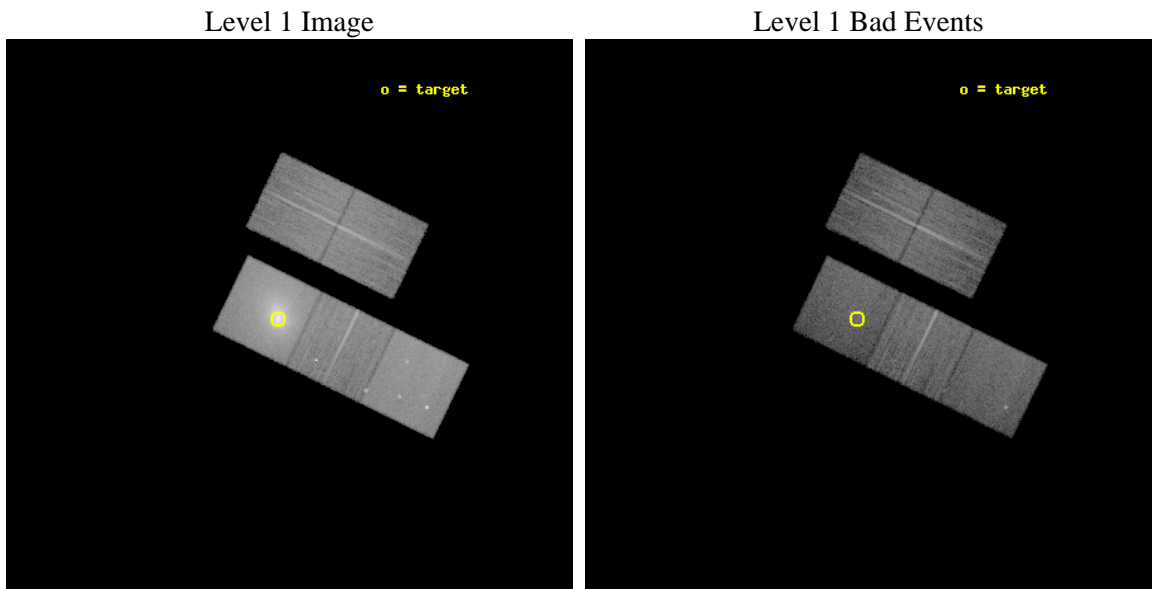
| | | |
|----------|---|---|
| seq_num | 890044 | Sequence number |
| obs_id | 12028 | Observation id |
| title | AO-11 Calibration Observations of A1795 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | A1795 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 207.219583 | Observer's specified target RA [deg] |
| dec_targ | 26.590833 | Observer's specified target Dec [deg] |
| ra_nom | 207.1978896149 | Nominal RA [deg] |
| dec_nom | 26.58324504381 | Nominal Dec [deg] |
| roll_nom | 206.00518121854 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 15168.300116658 | Sum of GTIs [s] |
| livetime | 14970.115108894 | Livetime [s] |
| ontime2 | 15168.300116658 | Sum of GTIs [s] |
| ontime3 | 15165.159146369 | Sum of GTIs [s] |
| ontime5 | 15168.300116658 | Sum of GTIs [s] |
| ontime6 | 15168.300116658 | Sum of GTIs [s] |
| ontime7 | 15168.300116658 | Sum of GTIs [s] |
| l2events | 350311 | Number of level 2 events |



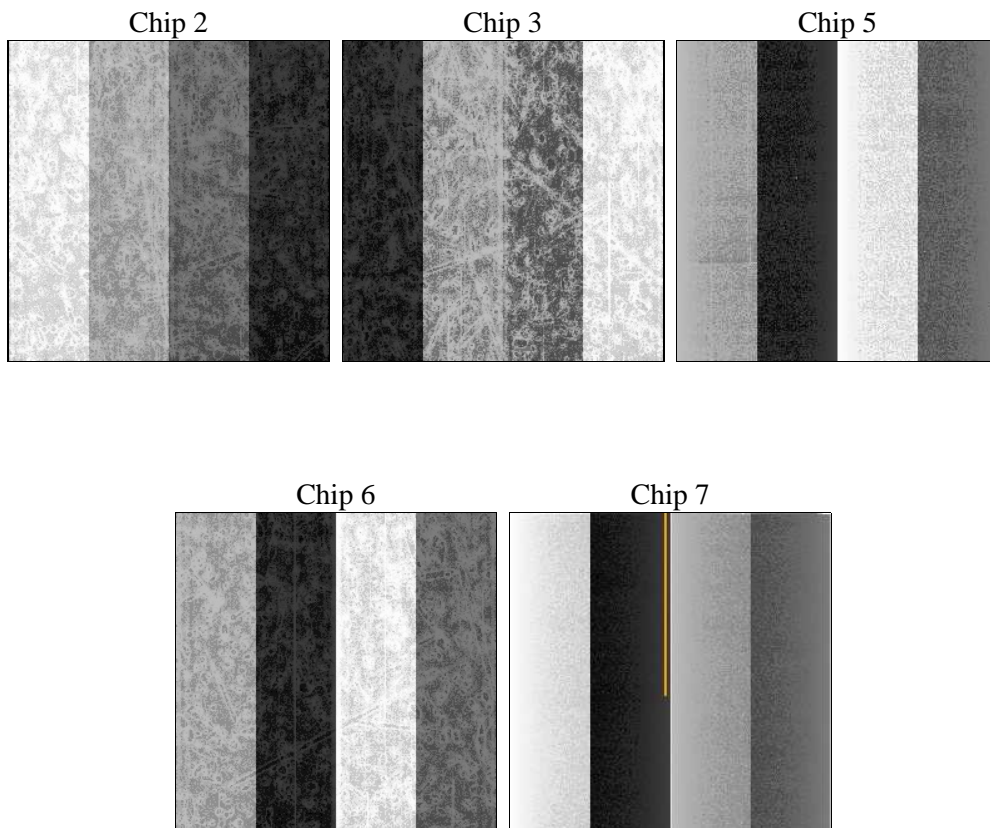
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 15000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 15168.300116658 | Sum of GTIs [s] |
| caldbver | 4.4.10 | | ontime2 | 15168.300116658 | Sum of GTIs [s] |
| date | 2012-06-25T10:38:02 | Date and time of file creation | ontime3 | 15165.159146369 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 15168.300116658 | Sum of GTIs [s] |
| | | | ontime6 | 15168.300116658 | Sum of GTIs [s] |
| | | | ontime7 | 15168.300116658 | Sum of GTIs [s] |
| | | | l1events | 841807 | Number of level 1 events |

2.1.4 Events

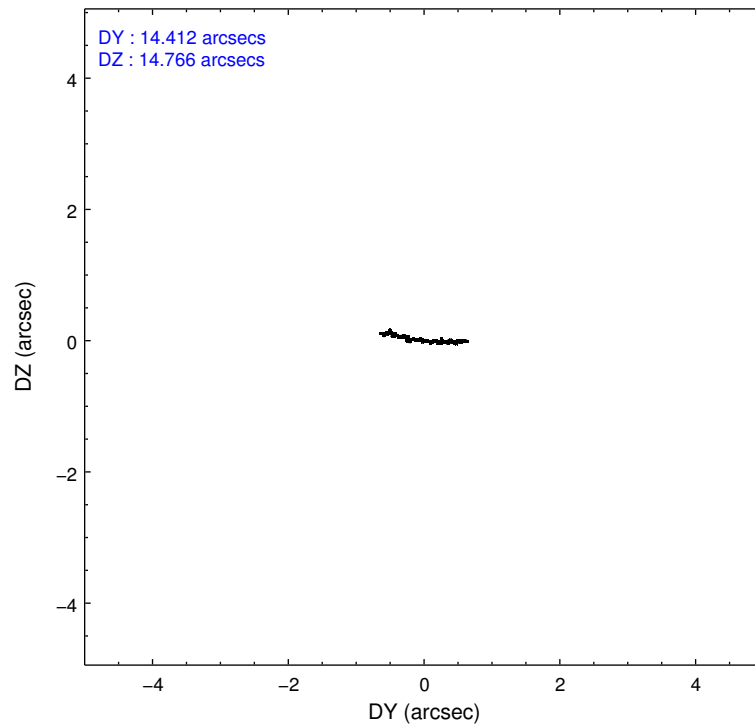
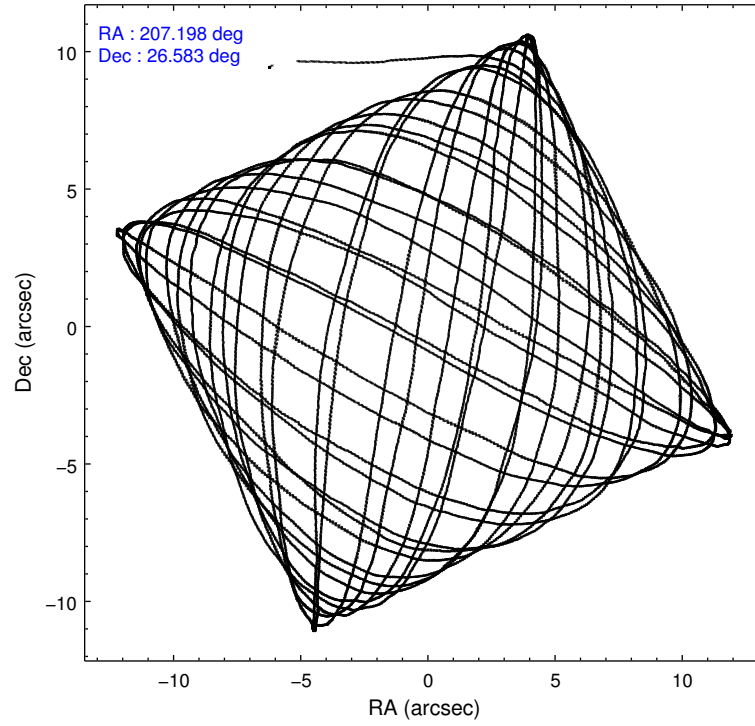
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 113943 | 112092 | 175781 | 129367 | 310624 |
| rejected events | 101335 | 98912 | 89956 | 105843 | 81315 |
| rejected % | 88% | 88% | 51% | 81% | 26% |

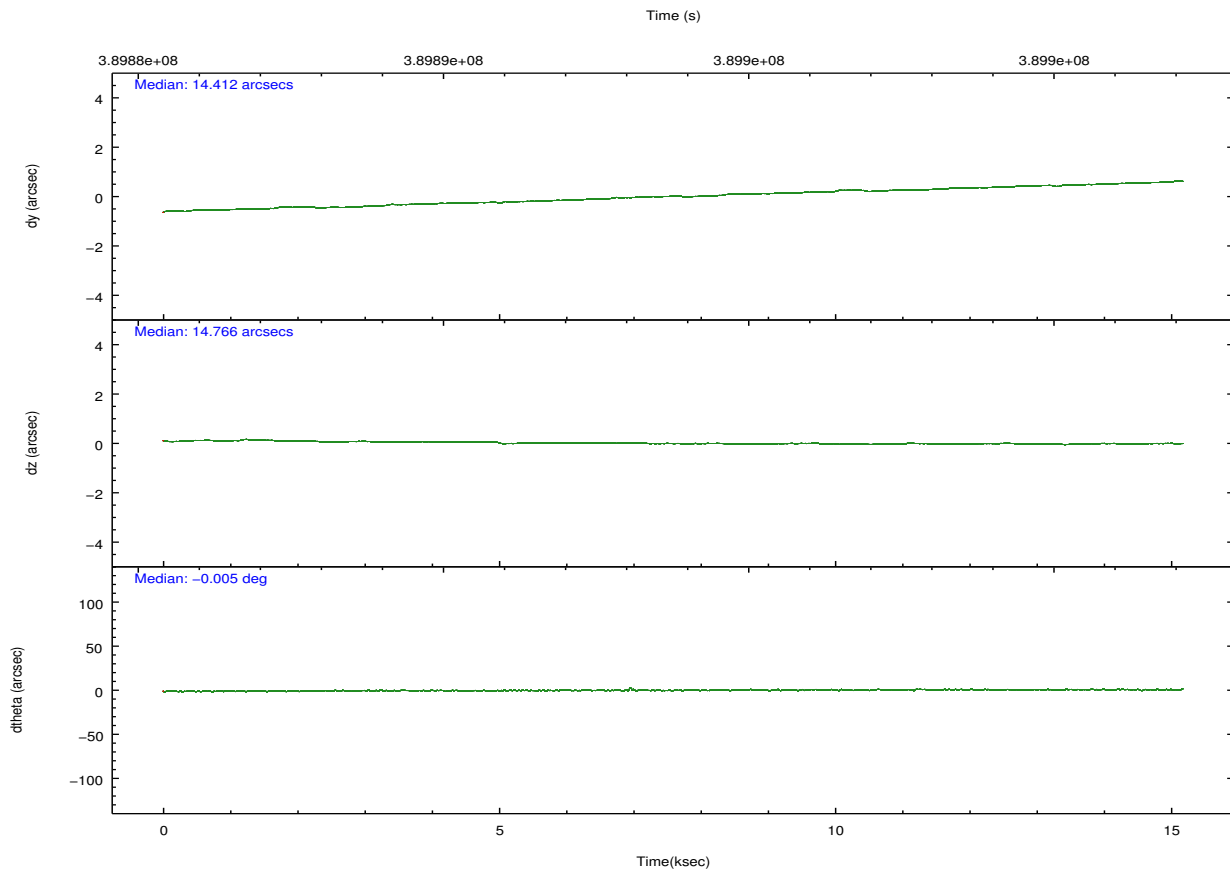
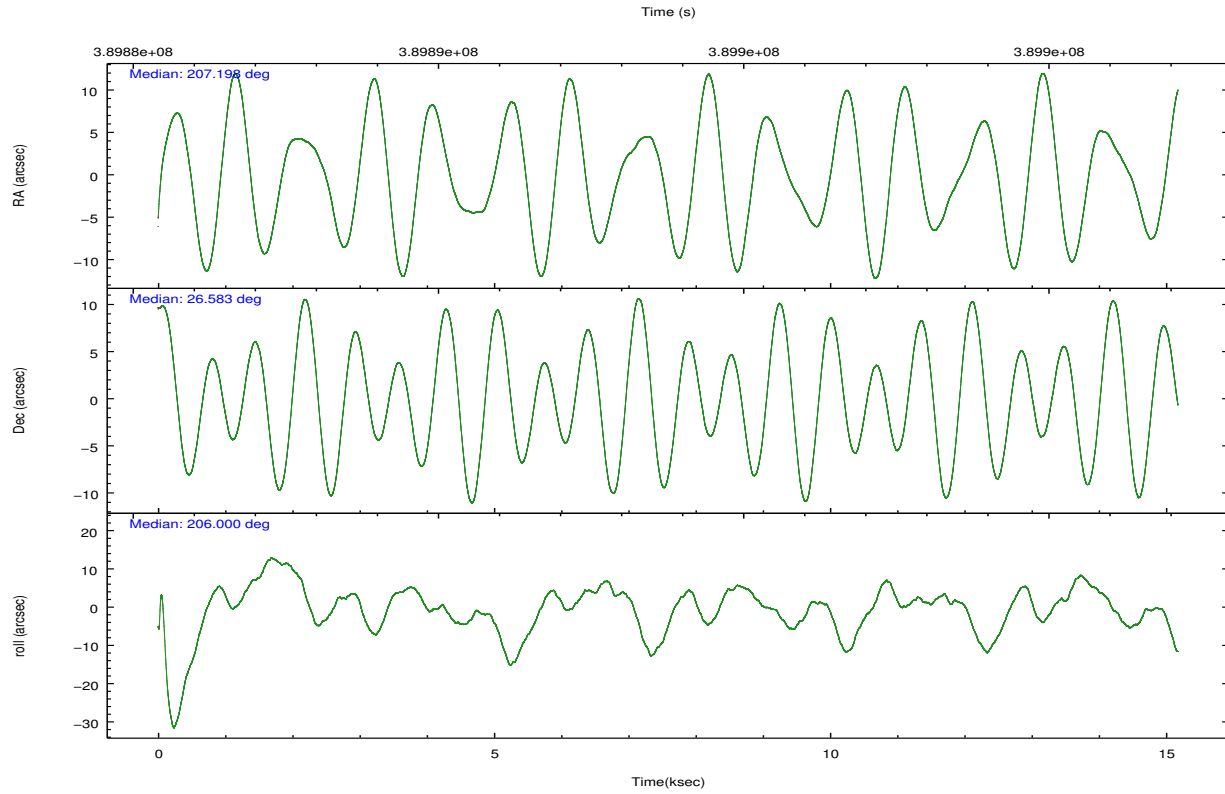
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|--------|-------|
| grade 0 events | 5130 | 5460 | 8360 | 13273 | 58579 |
| | 4% | 4% | 4% | 10% | 18% |
| grade 1 events | 79 | 73 | 395 | 106 | 264 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 2832 | 2868 | 26291 | 3980 | 56711 |
| | 2% | 2% | 14% | 3% | 18% |
| grade 3 events | 1273 | 1314 | 3557 | 1671 | 24779 |
| | 1% | 1% | 2% | 1% | 7% |
| grade 4 events | 1237 | 1282 | 3259 | 1669 | 24532 |
| | 1% | 1% | 1% | 1% | 7% |
| grade 5 events | 4248 | 4986 | 13466 | 5353 | 15629 |
| | 3% | 4% | 7% | 4% | 5% |
| grade 6 events | 2273 | 2410 | 45230 | 3138 | 66969 |
| | 1% | 2% | 25% | 2% | 21% |
| grade 7 events | 96871 | 93699 | 75223 | 100177 | 63161 |
| | 85% | 83% | 42% | 77% | 20% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-23567 | ACIS-23567 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 207.214632 | 207.197889614901 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 26.606098 | 26.58324504380963 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 205.841070 | 206.0051812185435 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 389886345.184000 | 389885277.04206 | | | |
| Observation start date | 2010-05-10T13:44:39 | 2010-05-10T13:27:57 | | | |
| [s] Observation end time (MET) | 389901345.184000 | 389902614.40544 | | | |
| Observation end date | 2010-05-10T17:54:39 | 2010-05-10T18:16:54 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



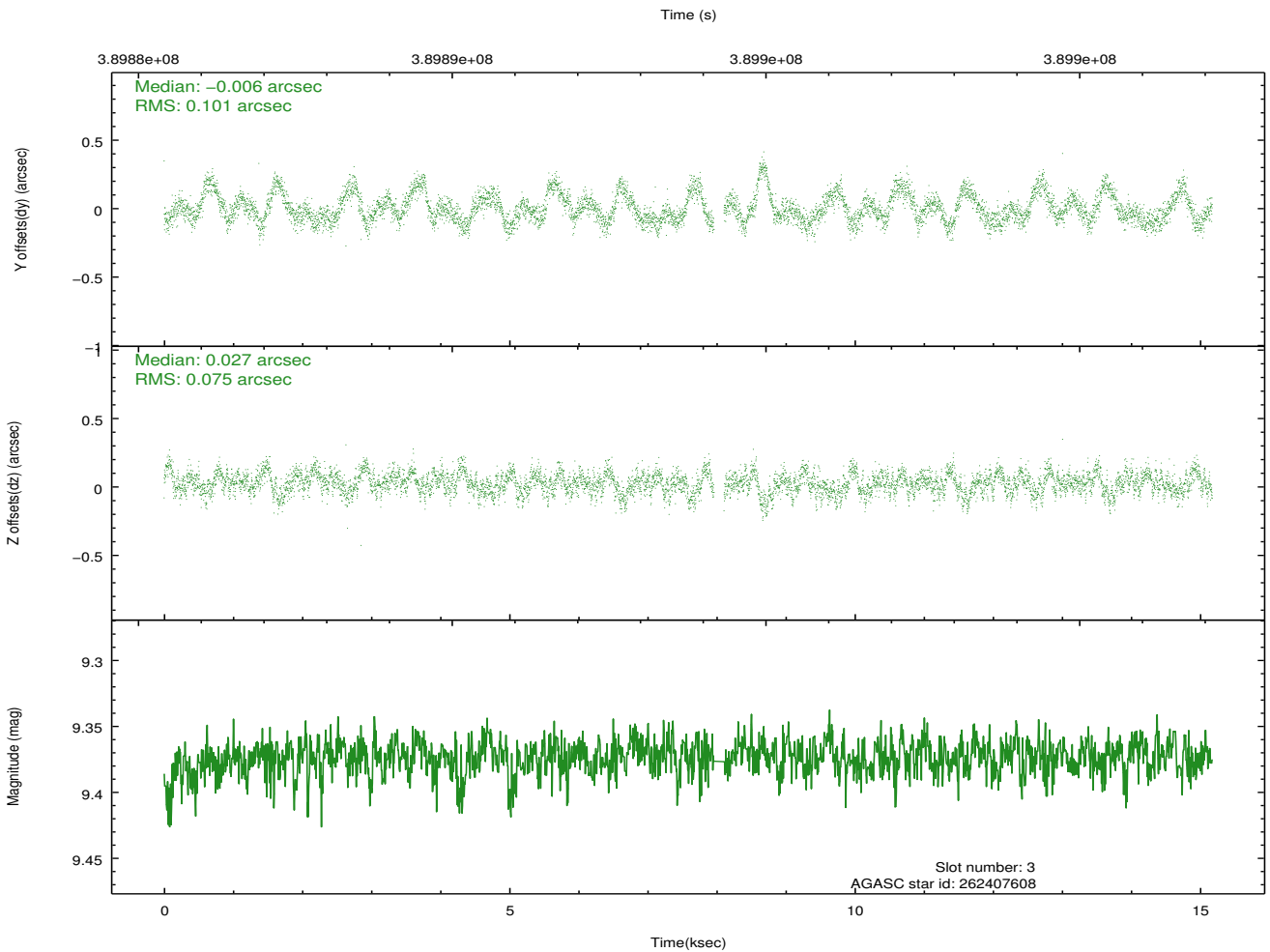
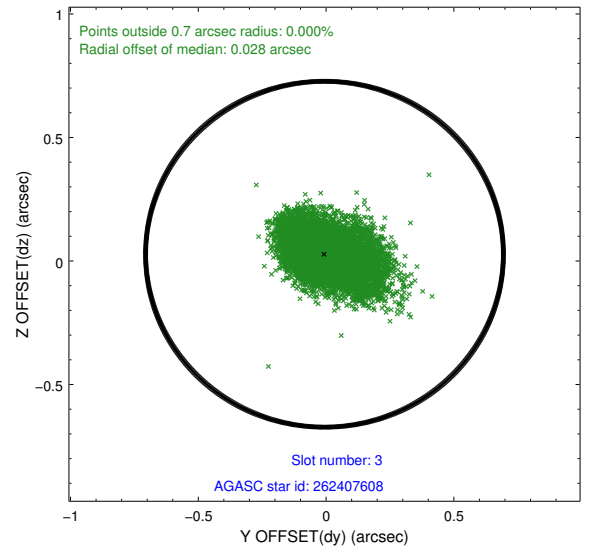
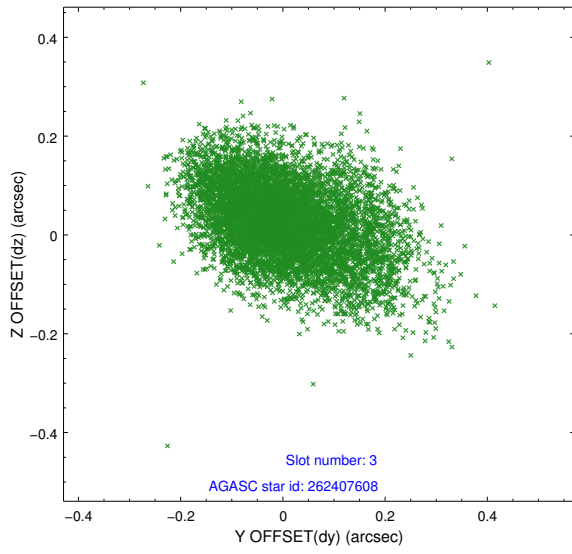


Slot Statistics

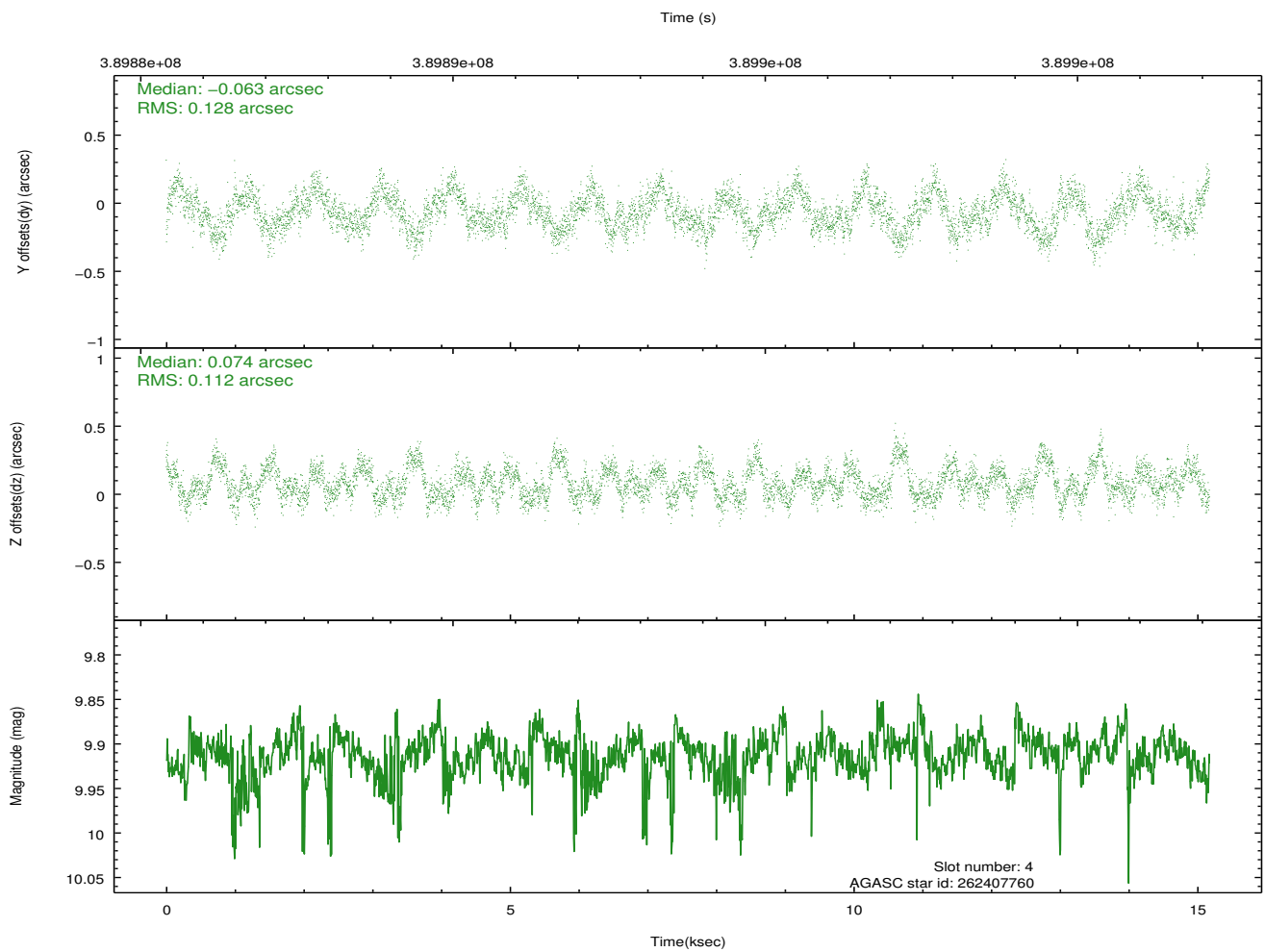
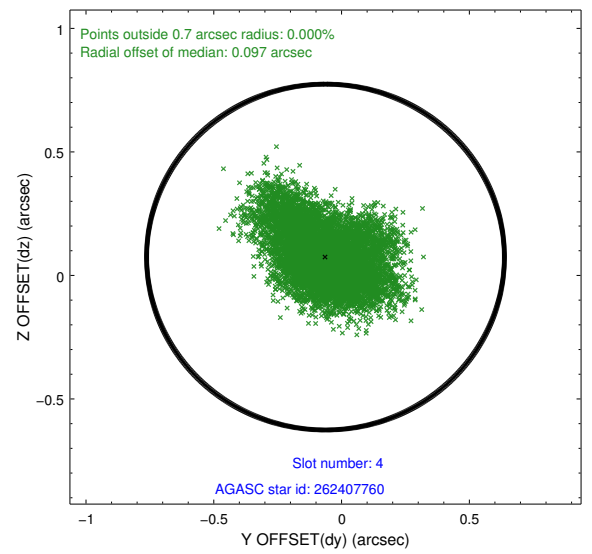
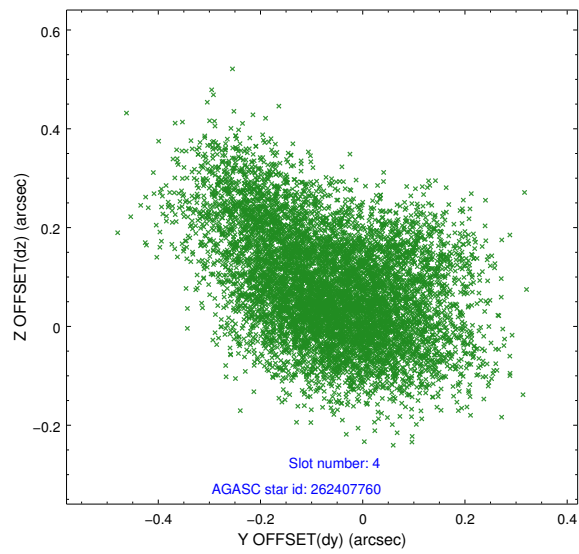
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 6.92 | 3702 | -0.078 | -0.040 | 0.013 | 0.018 | 0.000000 | 0.000000 | -767.42 | -1736.16 |
| 1 | FID | ACIS-S-4 | 7.01 | 3702 | 0.201 | 0.048 | 0.008 | 0.013 | 0.000000 | 0.000000 | 2145.98 | 172.14 |
| 2 | FID | ACIS-S-5 | 7.03 | 3702 | -0.151 | -0.001 | 0.013 | 0.023 | 0.000000 | 0.000000 | -1819.98 | 166.06 |
| 3 | GUIDE | 262407608 | 9.37 | 7329 | -0.006 | 0.027 | 0.130 | 0.225 | 207.378401 | 26.435507 | -207.35 | 783.00 |
| 4 | GUIDE | 262407760 | 9.91 | 7378 | -0.063 | 0.074 | 0.180 | 0.299 | 206.566773 | 26.577263 | 1920.94 | -819.99 |
| 5 | GUIDE | 262409624 | 10.12 | 7392 | -0.272 | 0.105 | 0.183 | 0.290 | 207.610037 | 27.074851 | -1876.61 | -967.95 |
| 6 | GUIDE | 262275128 | 10.45 | 7308 | 0.469 | -0.268 | 0.247 | 0.407 | 206.271046 | 26.873005 | 2304.43 | -2195.56 |
| 7 | GUIDE | 262408104 | 10.32 | 7148 | -0.131 | 0.045 | 0.250 | 0.416 | 207.864096 | 26.823111 | -2220.55 | 201.83 |

2.4 Star Slots

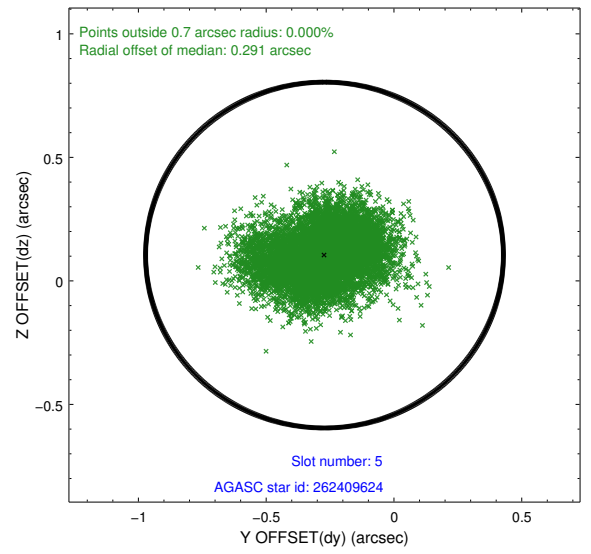
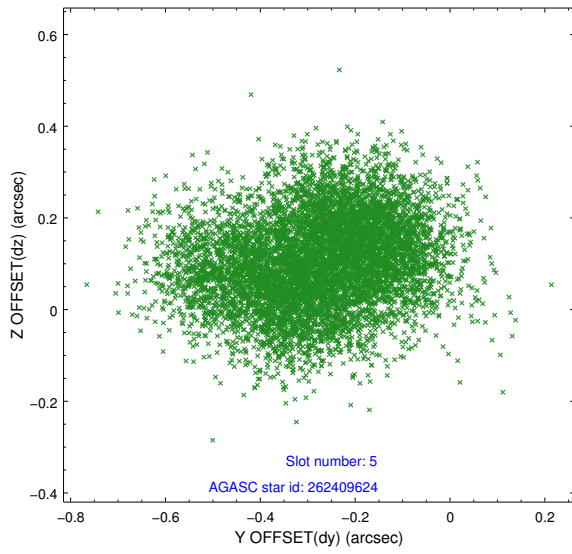
2.4.1 Slot 3



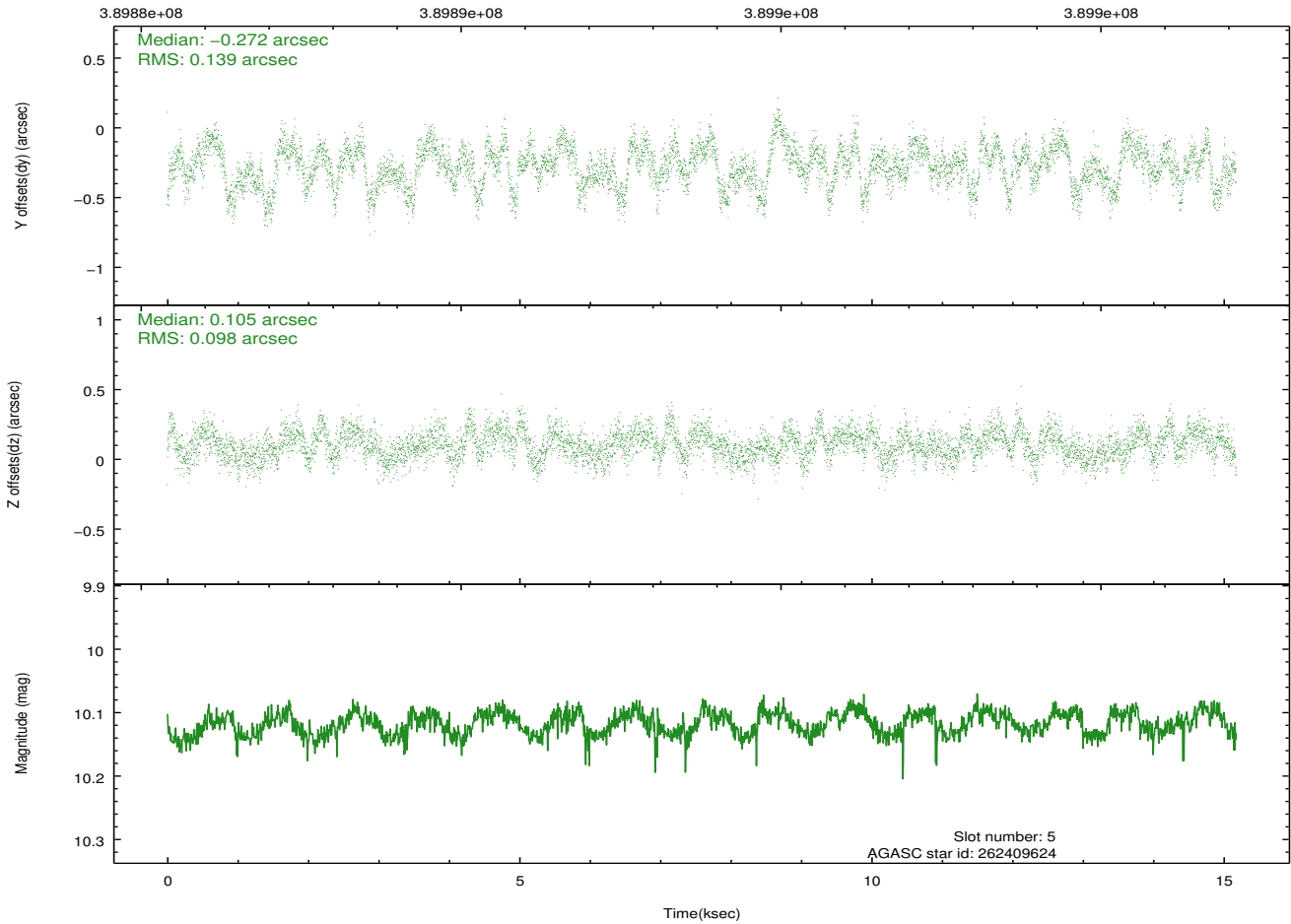
2.4.2 Slot 4



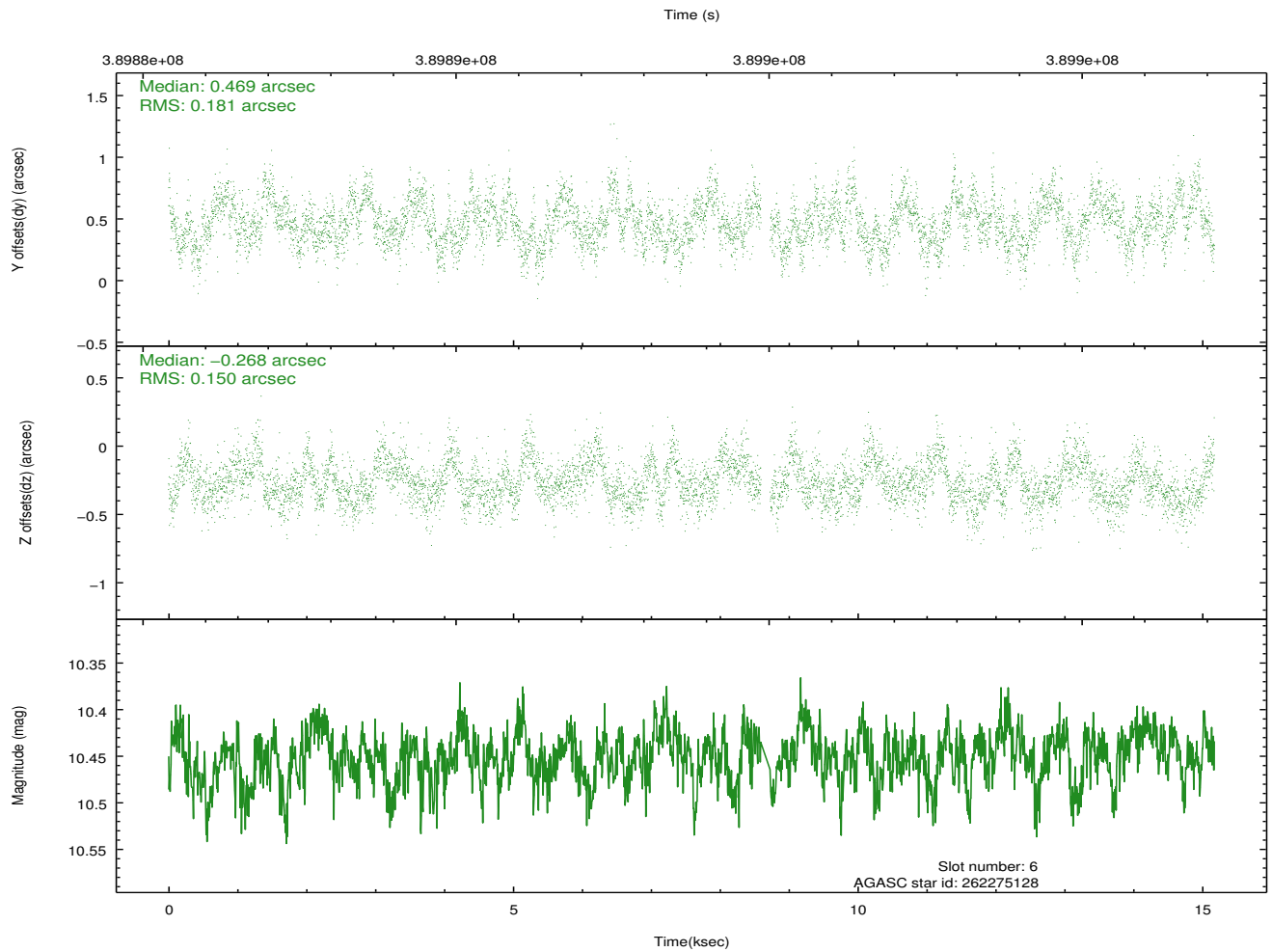
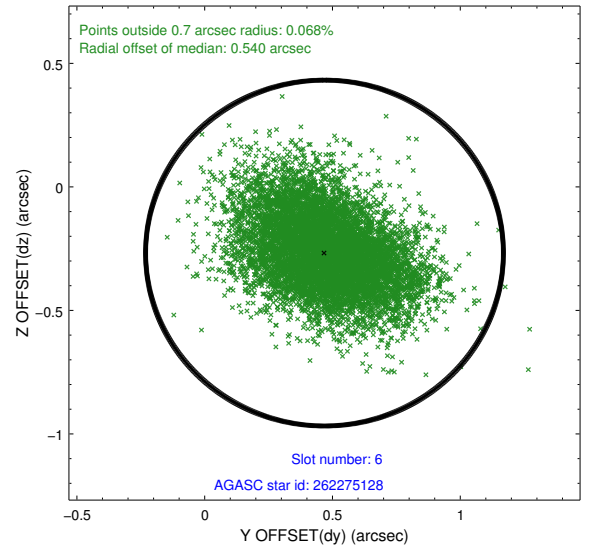
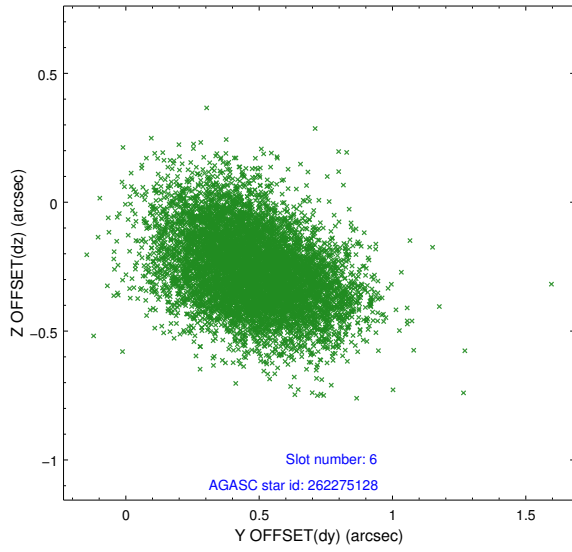
2.4.3 Slot 5



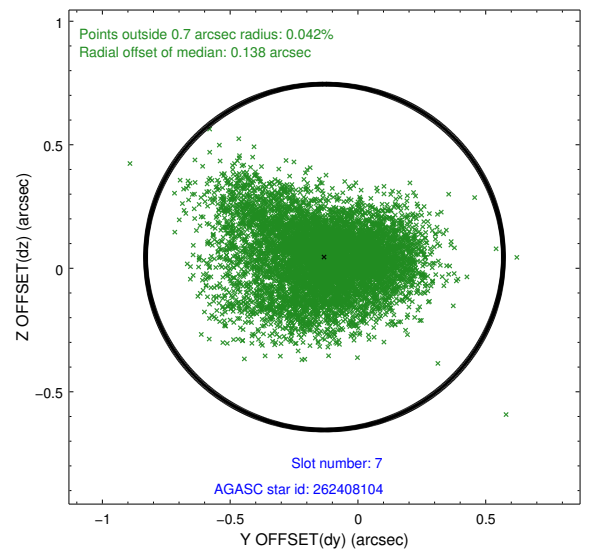
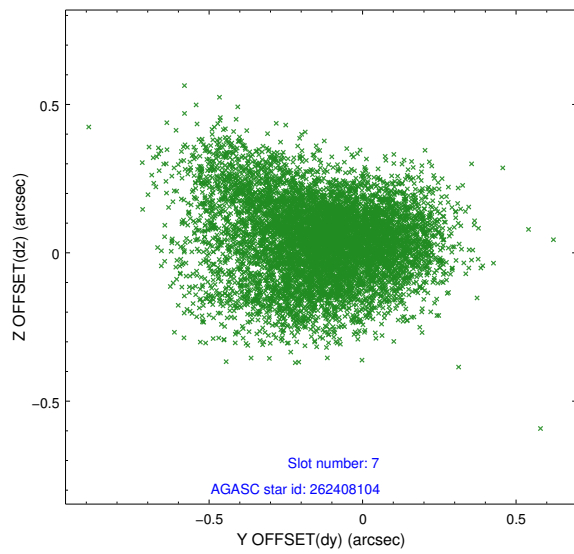
Time (s)



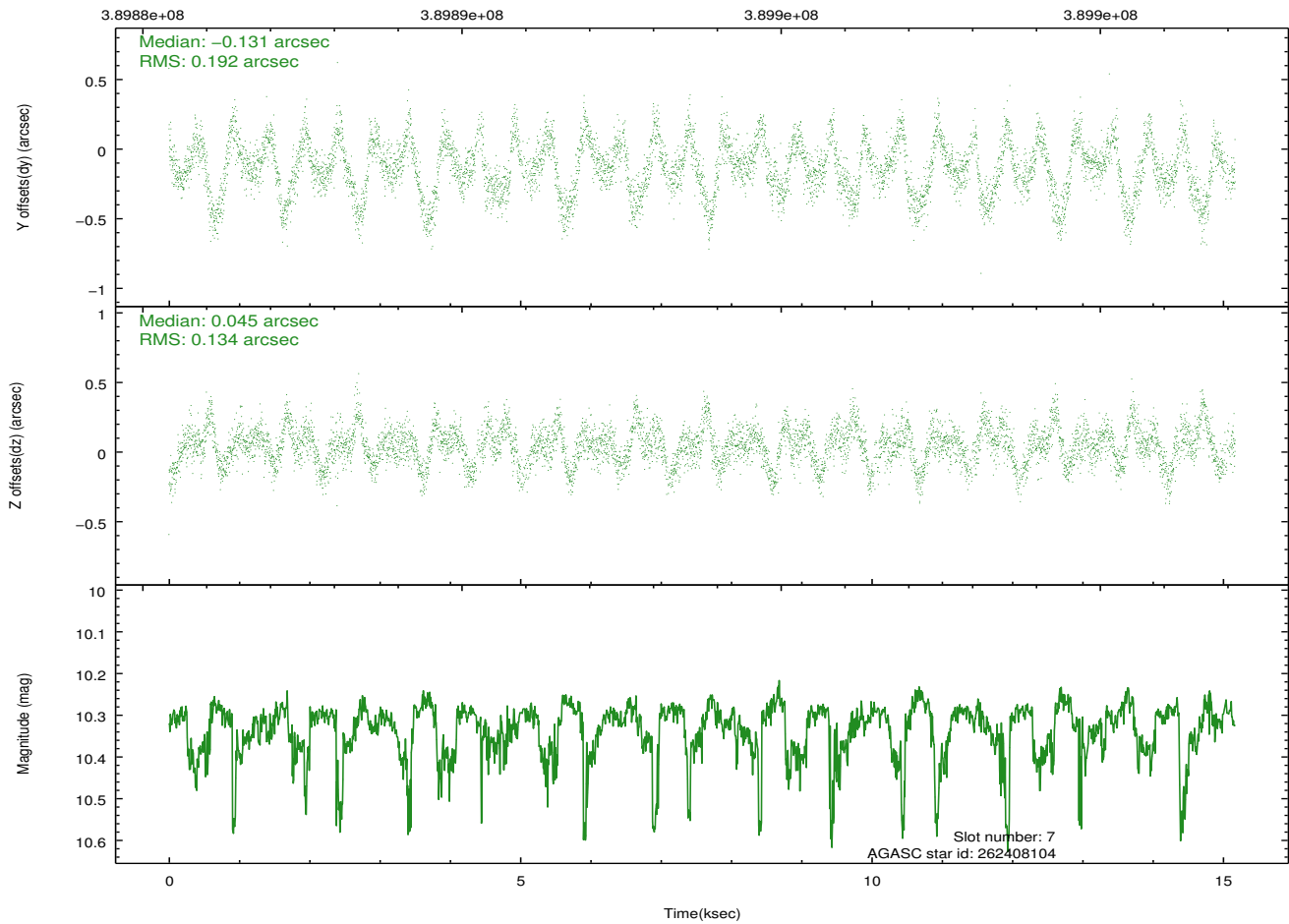
2.4.4 Slot 6



2.4.5 Slot 7

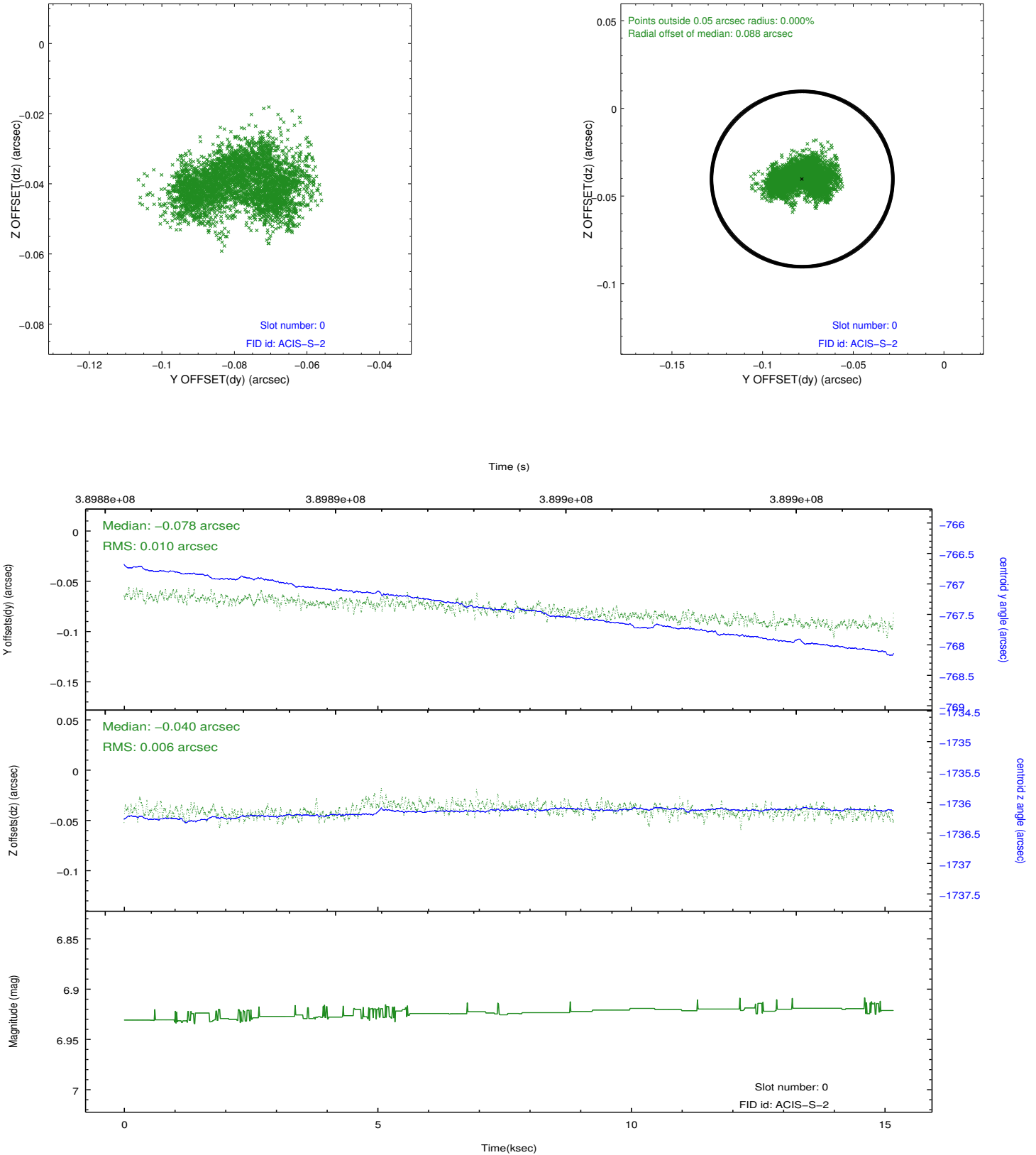


Time (s)

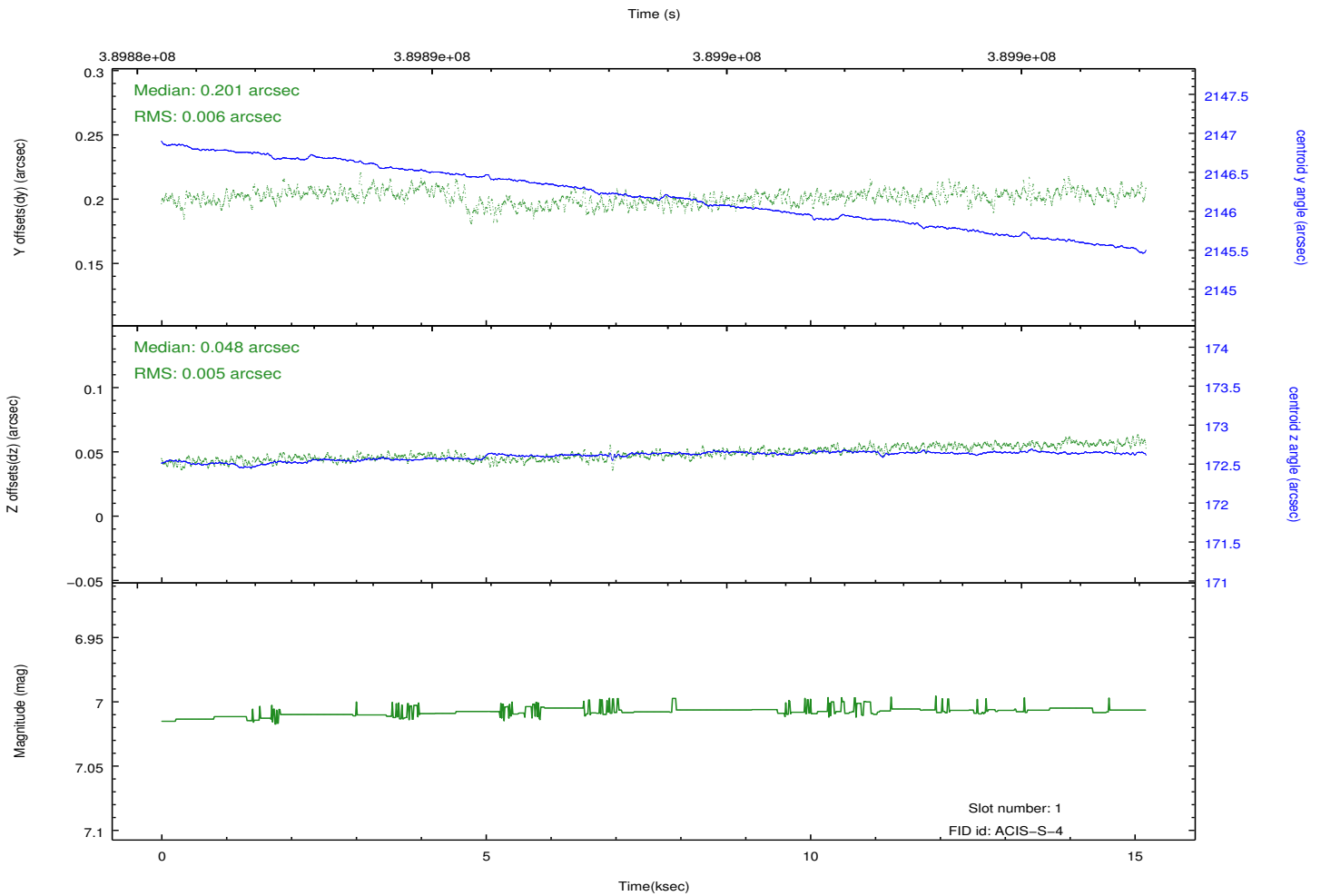
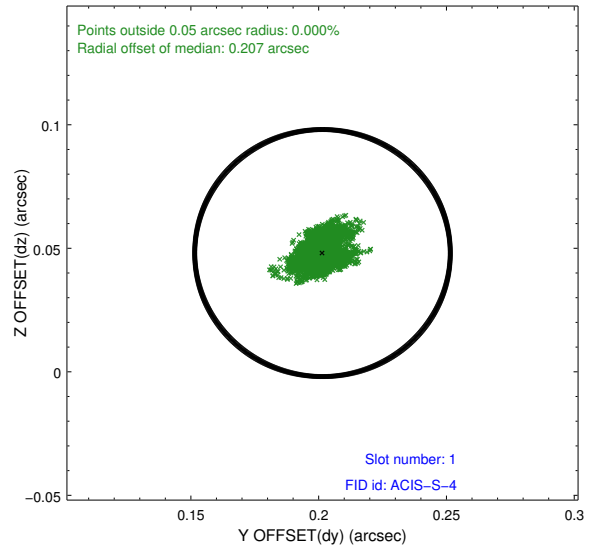
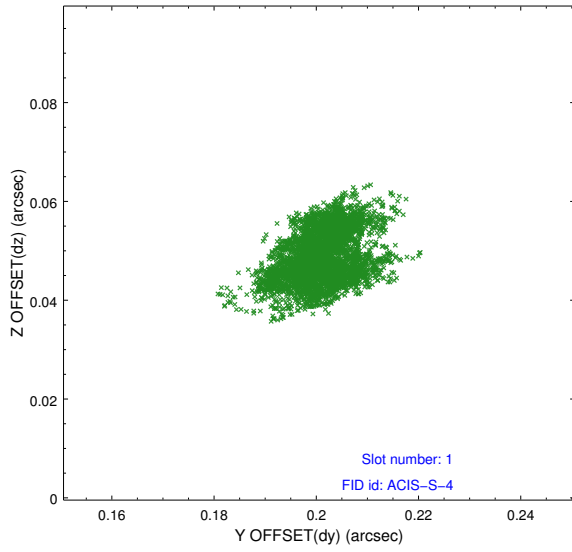


2.5 FID Slots

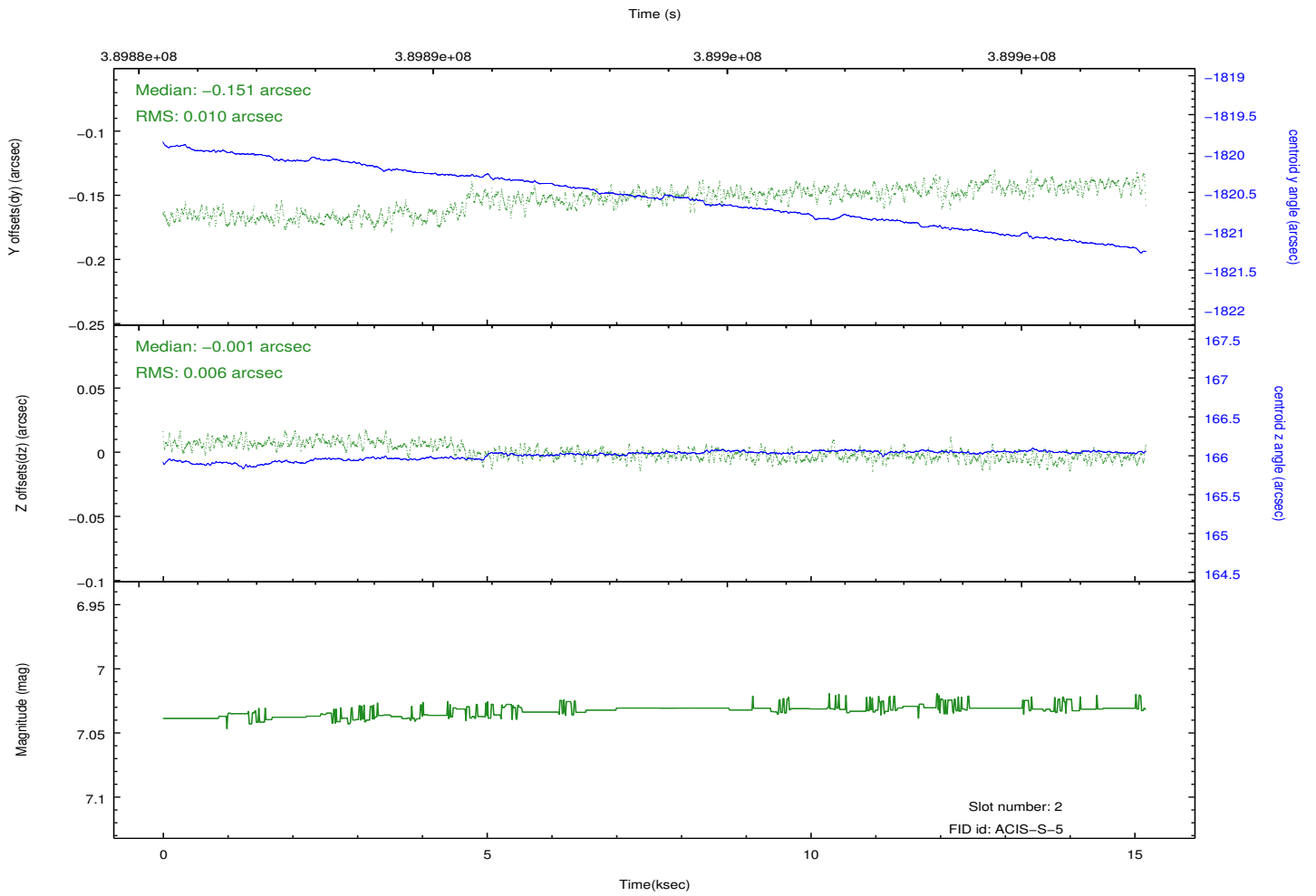
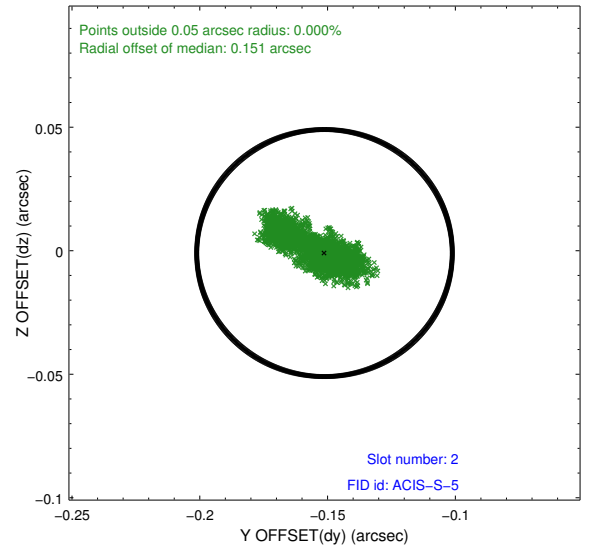
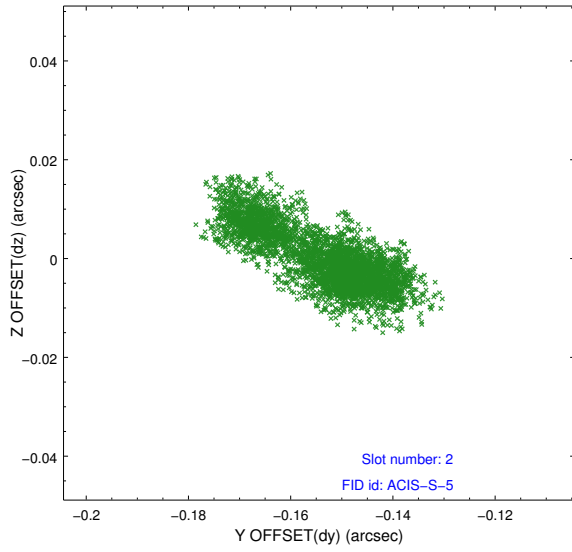
2.5.1 Slot 0



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) | 2012.07.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 15.168300116658 |

A.2 Comments