

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7747 - L2 Version 3
Chandra X-Ray Center

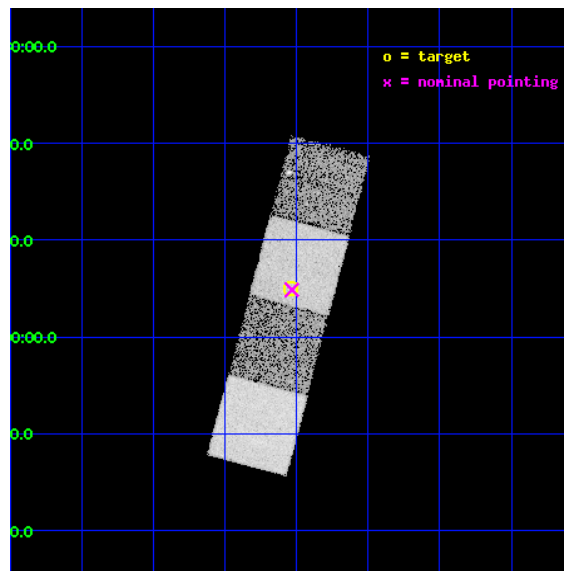
L2 Processing Date : Apr 20 2012

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1 Front

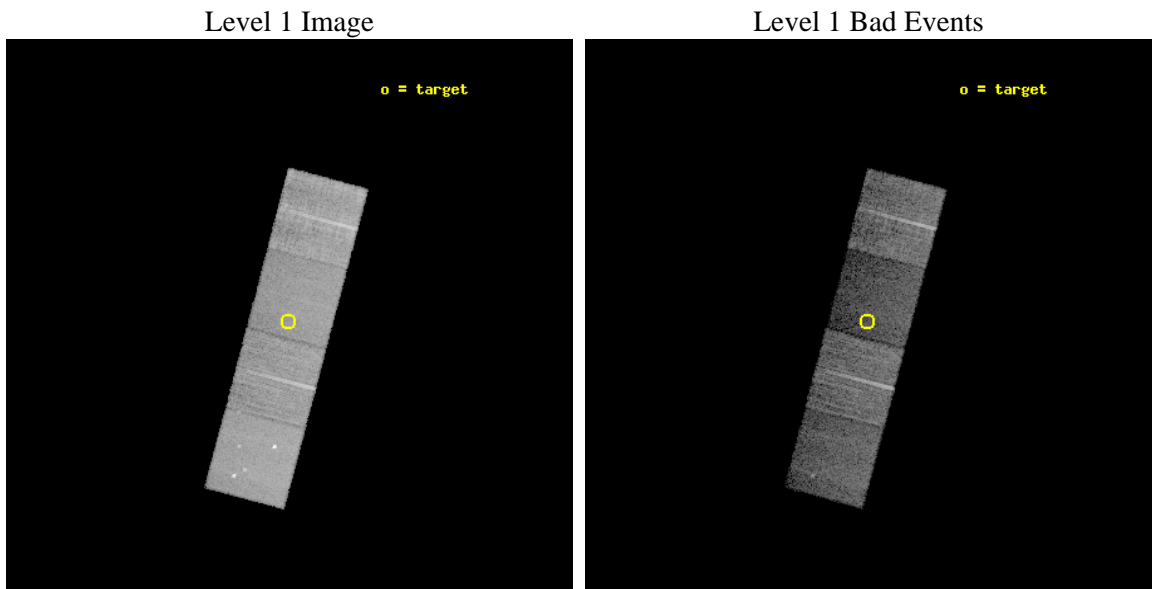
| | | |
|----------|--|---|
| seq_num | 701415 | Sequence number |
| obs_id | 7747 | Observation id |
| title | Probing heavy obscuration in optically selected Type 2 quasar candidates | Proposal title |
| observer | Dr Cristian Vignali | Principal investigator |
| object | SDSS J012032.21-005502.0 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 20.134167 | Observer's specified target RA [deg] |
| dec_targ | -0.917222 | Observer's specified target Dec [deg] |
| ra_nom | 20.132990018225 | Nominal RA [deg] |
| dec_nom | -0.9189216290282 | Nominal Dec [deg] |
| roll_nom | 284.87644201735 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 10186.600078344 | Sum of GTIs [s] |
| livetime | 10053.504649055 | Livetime [s] |
| ontime5 | 10186.600078344 | Sum of GTIs [s] |
| ontime6 | 10183.459118009 | Sum of GTIs [s] |
| ontime7 | 10186.600078344 | Sum of GTIs [s] |
| ontime8 | 10183.459128022 | Sum of GTIs [s] |
| l2events | 90419 | Number of level 2 events |



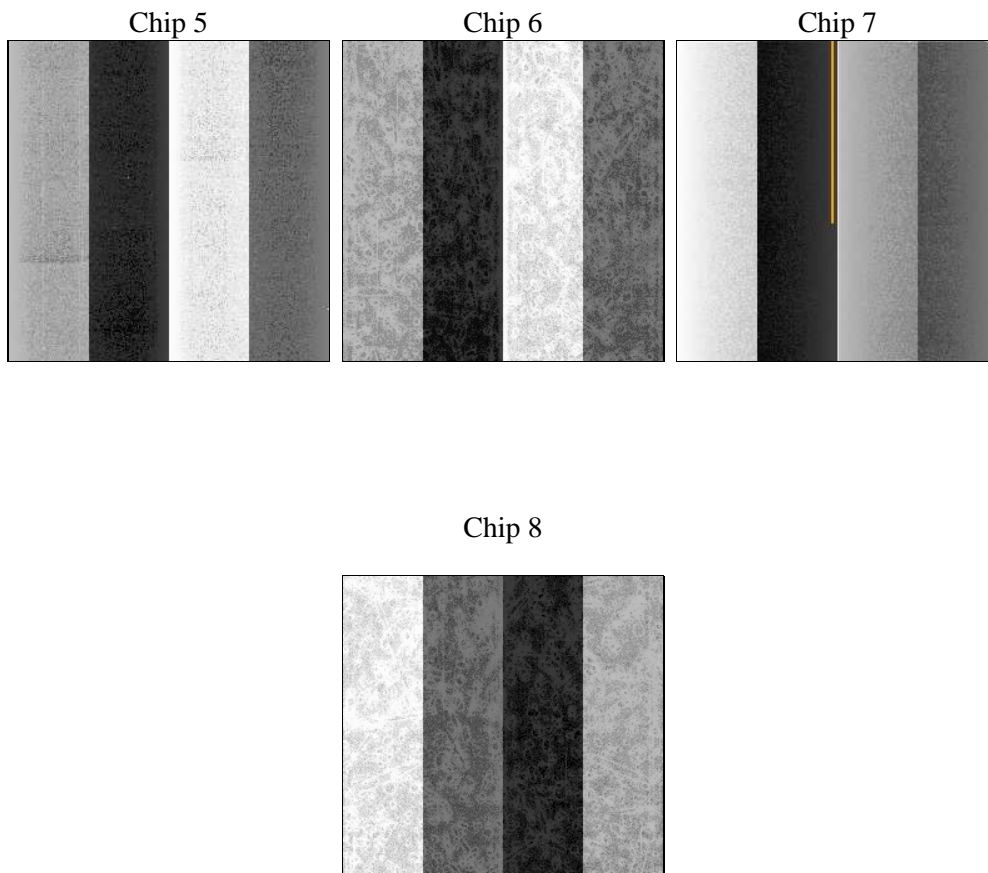
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 10186.600078344 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime5 | 10186.600078344 | Sum of GTIs [s] |
| date | 2012-04-20T04:52:03 | Date and time of file creation | ontime6 | 10183.459118009 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime7 | 10186.600078344 | Sum of GTIs [s] |
| | | | ontime8 | 10183.459128022 | Sum of GTIs [s] |
| | | | l1events | 336337 | Number of level 1 events |

2.1.4 Events

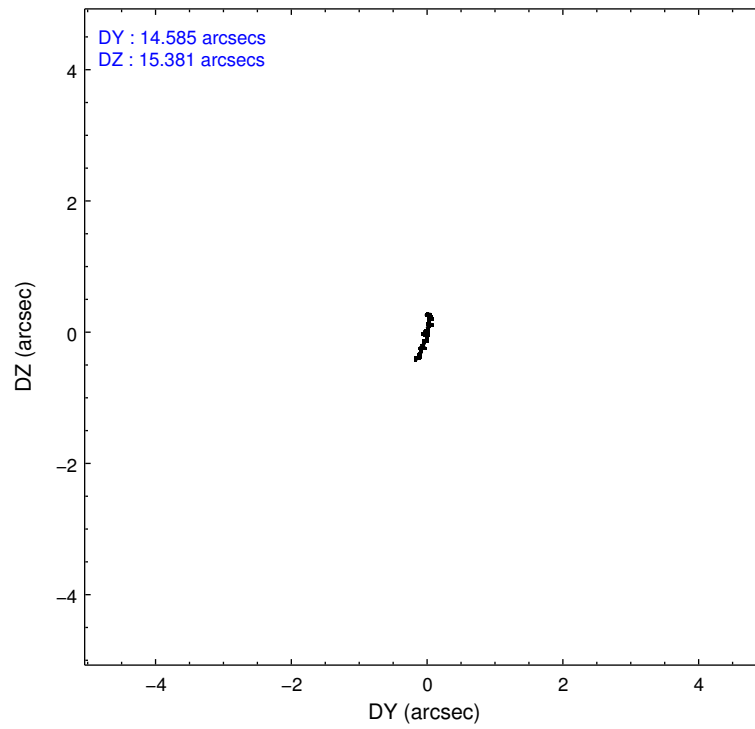
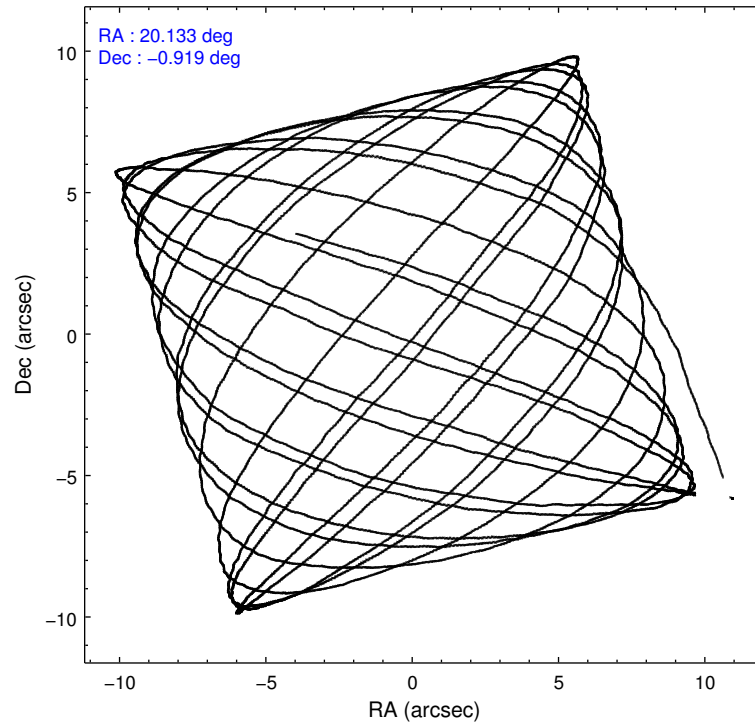
| | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 96205 | 75852 | 69824 | 94456 |
| rejected events | 45693 | 68289 | 36409 | 71971 |
| rejected % | 47% | 90% | 52% | 76% |

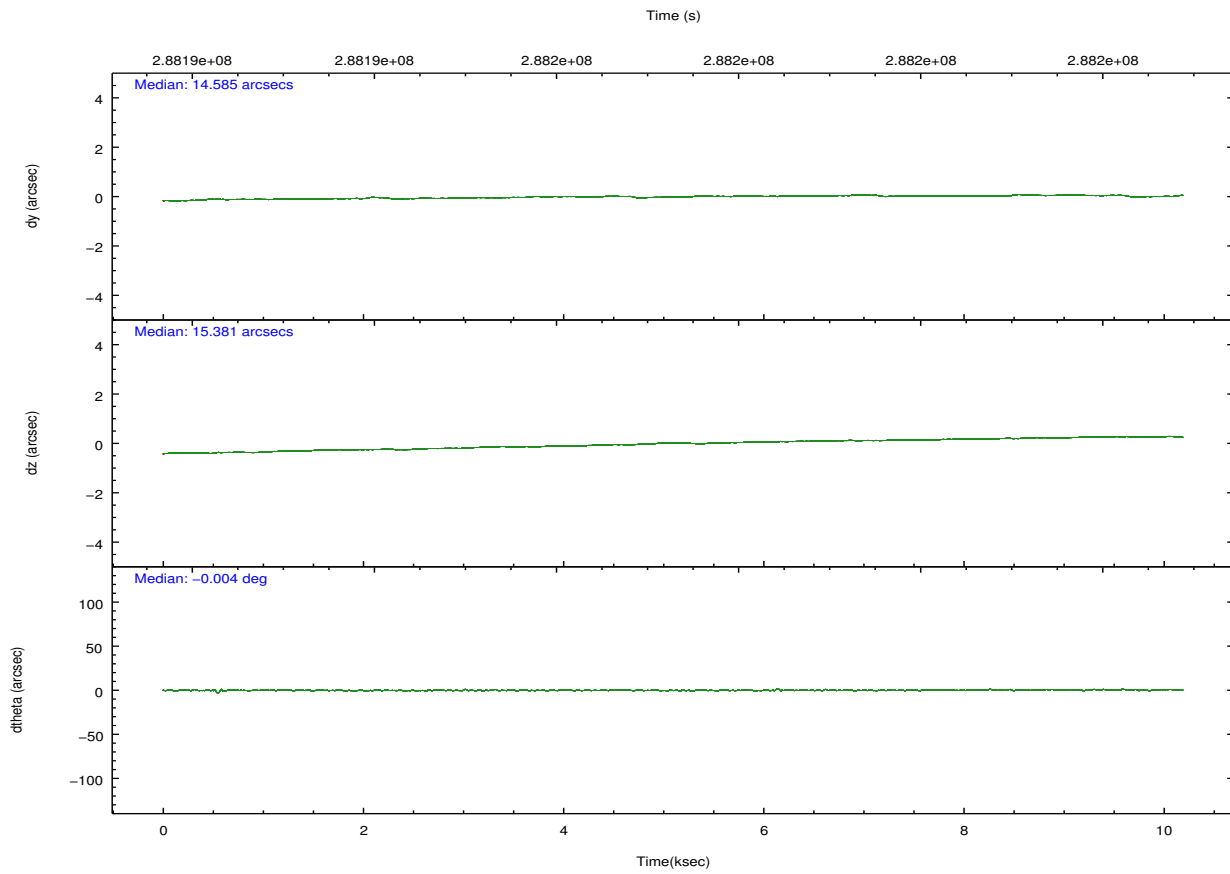
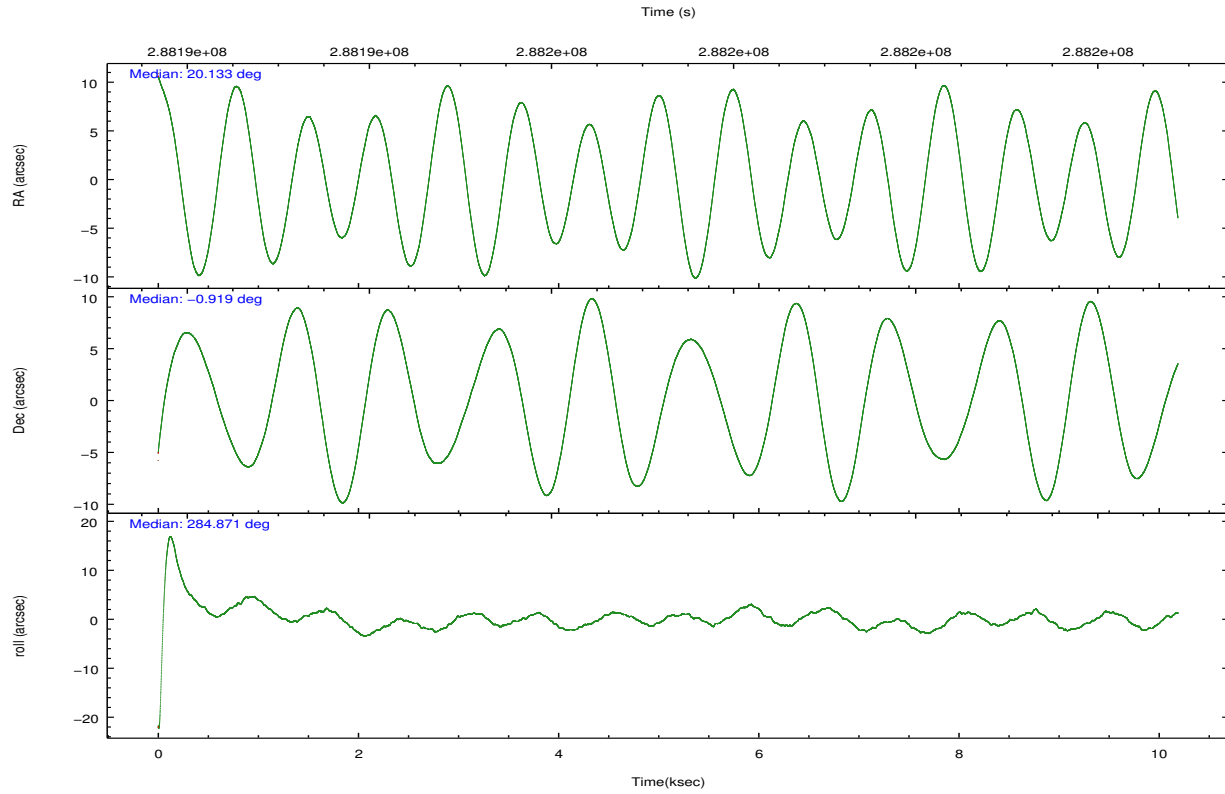
| | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 7711 | 2858 | 3506 | 6278 |
| | 8% | 3% | 5% | 6% |
| grade 1 events | 349 | 26 | 108 | 67 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 15200 | 1696 | 7206 | 5426 |
| | 15% | 2% | 10% | 5% |
| grade 3 events | 2300 | 831 | 3240 | 2538 |
| | 2% | 1% | 4% | 2% |
| grade 4 events | 2096 | 875 | 3328 | 2398 |
| | 2% | 1% | 4% | 2% |
| grade 5 events | 7752 | 2608 | 7504 | 3975 |
| | 8% | 3% | 10% | 4% |
| grade 6 events | 24873 | 1543 | 17158 | 6501 |
| | 25% | 2% | 24% | 6% |
| grade 7 events | 35924 | 65415 | 27774 | 67273 |
| | 37% | 86% | 39% | 71% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-5678 | ACIS-5678 | 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 | 20.113390 | 20.13299001822537 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -0.899818 | -0.9189216290282034 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 284.719566 | 284.8764420173478 | [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 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 288192379.184000 | 288191221.56652 | | | |
| Observation start date | 2007-02-18T13:25:14 | 2007-02-18T13:07:01 | | | |
| [s] Observation end time (MET) | 288202379.184000 | 288203062.87958 | | | |
| Observation end date | 2007-02-18T16:11:54 | 2007-02-18T16:24:22 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



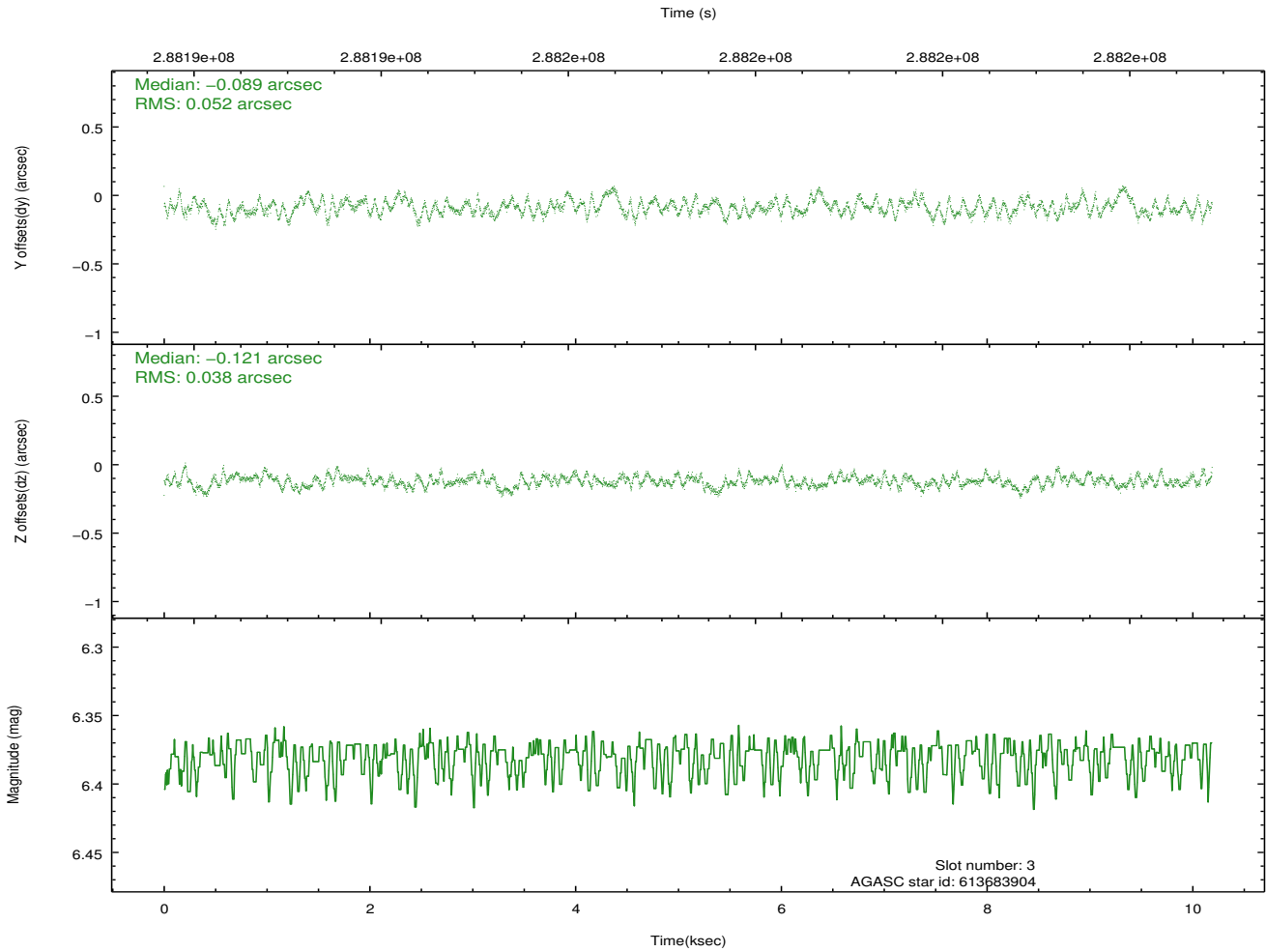
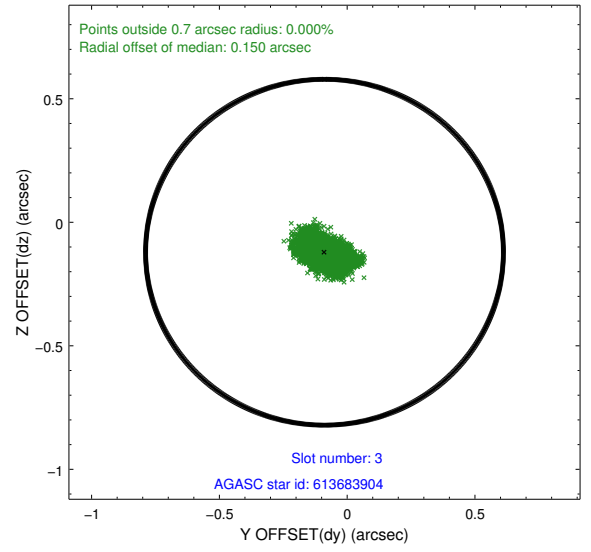
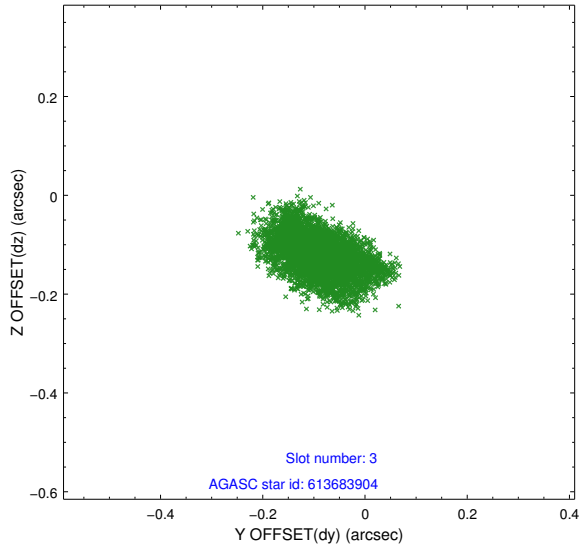


Slot Statistics

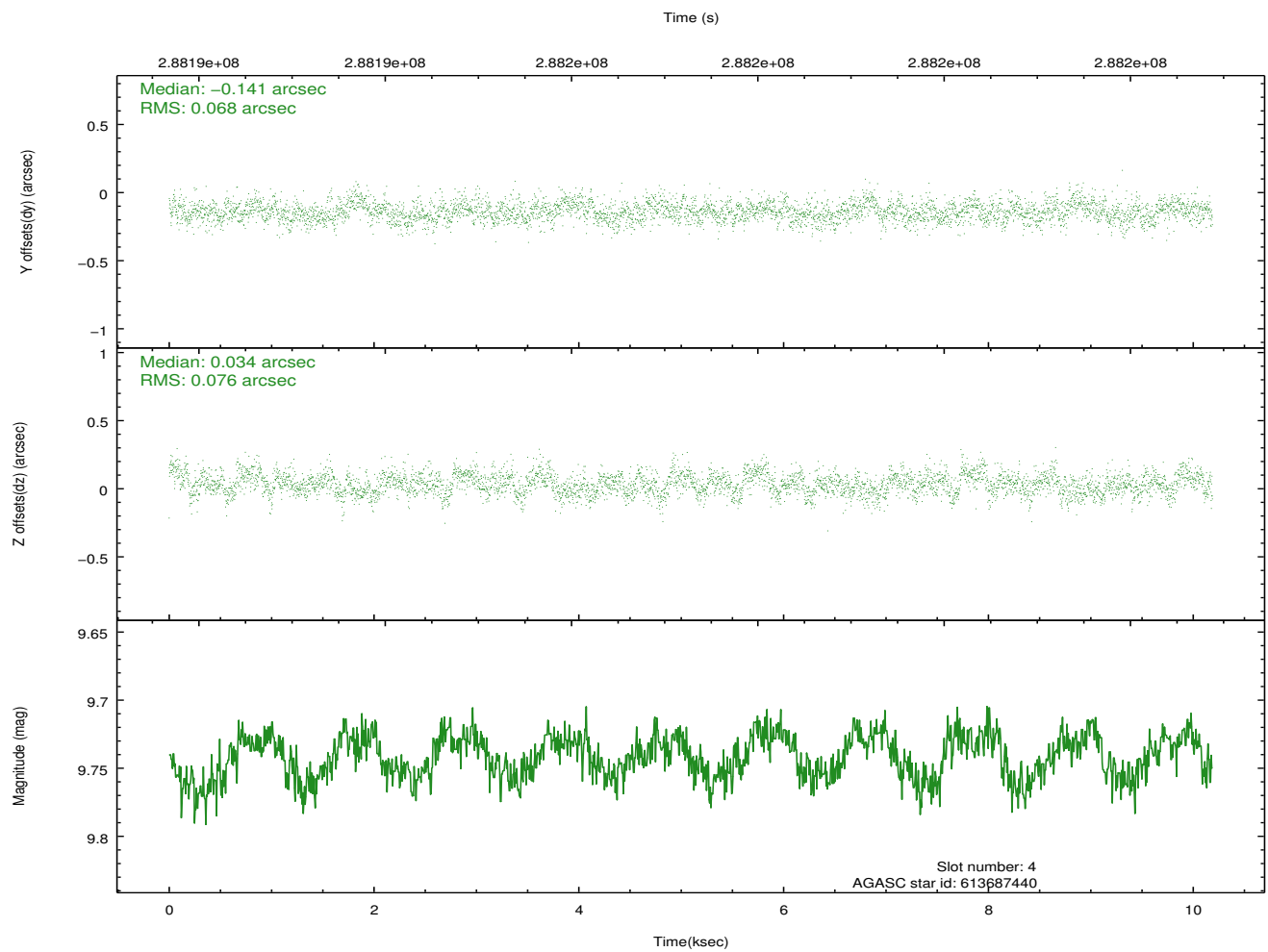
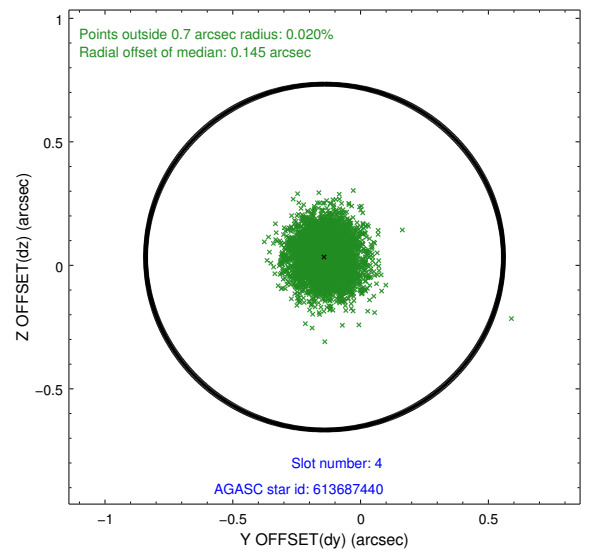
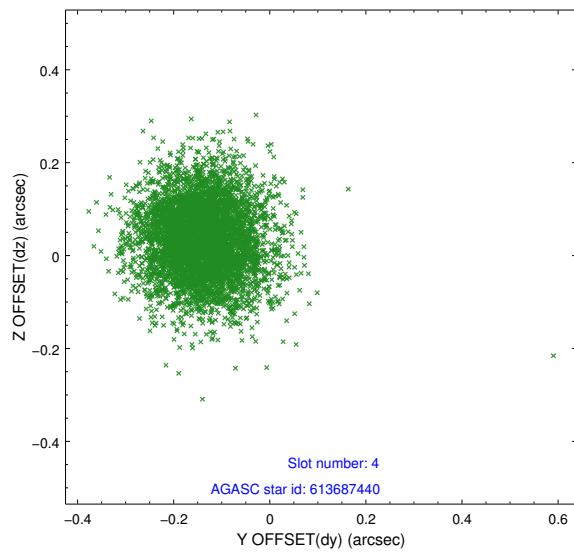
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.09 | 2485 | -0.087 | -0.024 | 0.007 | 0.011 | 0.000000 | 0.000000 | -767.60 | -1736.76 |
| 1 | FID | ACIS-S-4 | 7.19 | 2486 | 0.207 | 0.049 | 0.005 | 0.011 | 0.000000 | 0.000000 | 2145.72 | 171.27 |
| 2 | FID | ACIS-S-5 | 7.22 | 2486 | -0.150 | -0.016 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1819.85 | 165.45 |
| 3 | GUIDE | 613683904 | 6.38 | 4971 | -0.089 | -0.121 | 0.069 | 0.114 | 20.645123 | -0.449679 | -1080.81 | 2263.15 |
| 4 | GUIDE | 613687440 | 9.74 | 4964 | -0.141 | 0.034 | 0.108 | 0.177 | 19.730049 | -0.398183 | -2097.27 | -875.49 |
| 5 | GUIDE | 613690664 | 9.12 | 4950 | 0.045 | 0.042 | 0.100 | 0.156 | 20.005872 | -0.823410 | -364.41 | -304.37 |
| 6 | GUIDE | 613692216 | 9.73 | 4964 | -0.065 | 0.067 | 0.117 | 0.190 | 19.881949 | -0.589032 | -1293.65 | -521.53 |
| 7 | GUIDE | 613690352 | 10.30 | 4962 | 0.246 | -0.029 | 0.165 | 0.267 | 20.214263 | -1.475811 | 2098.07 | -175.48 |

2.4 Star Slots

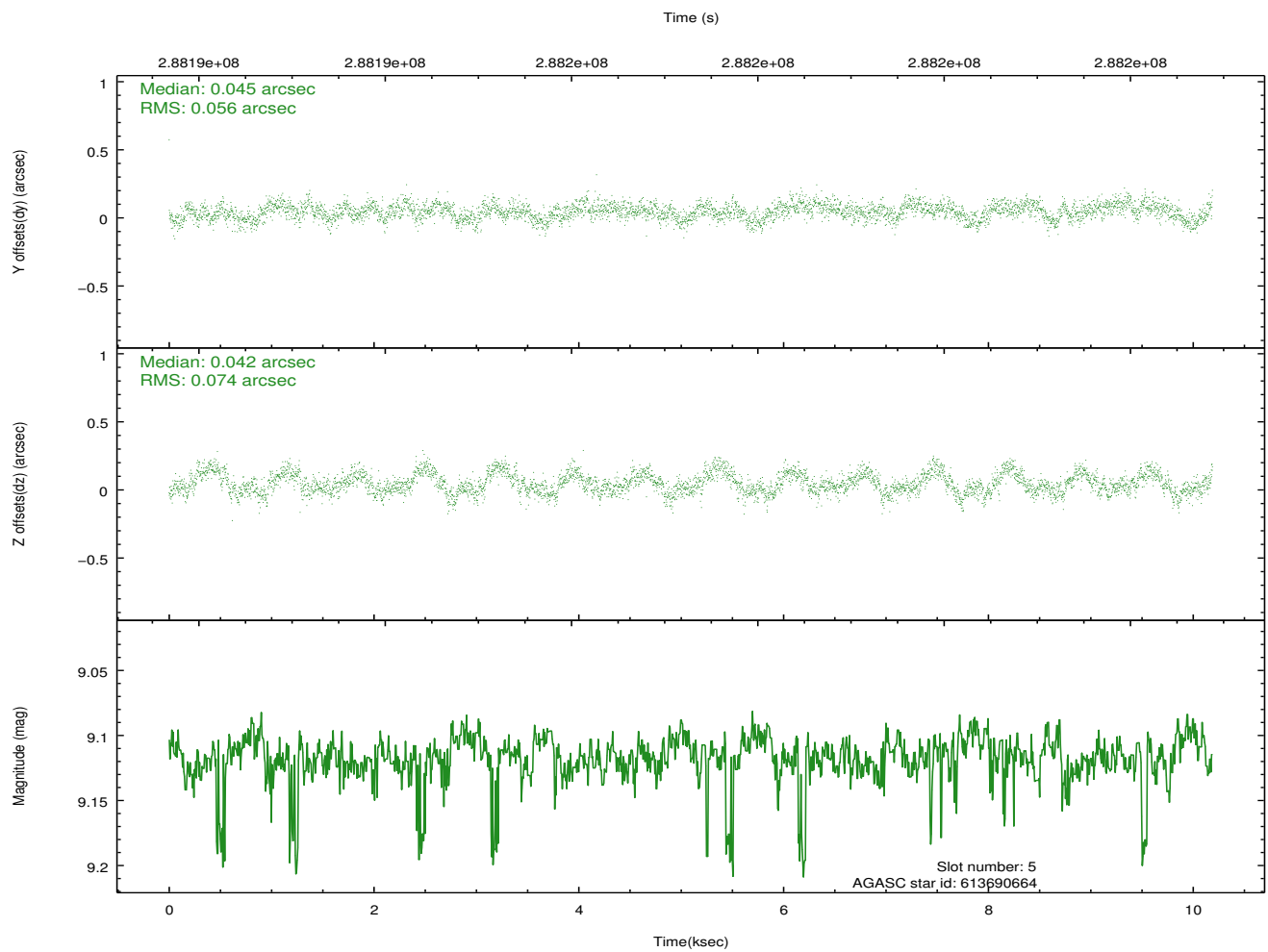
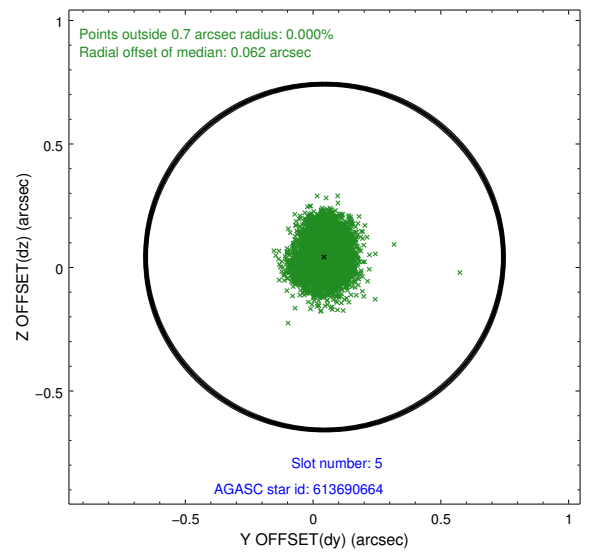
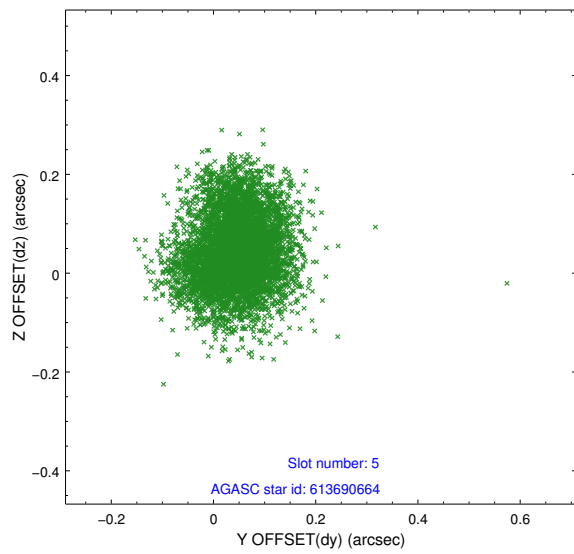
2.4.1 Slot 3



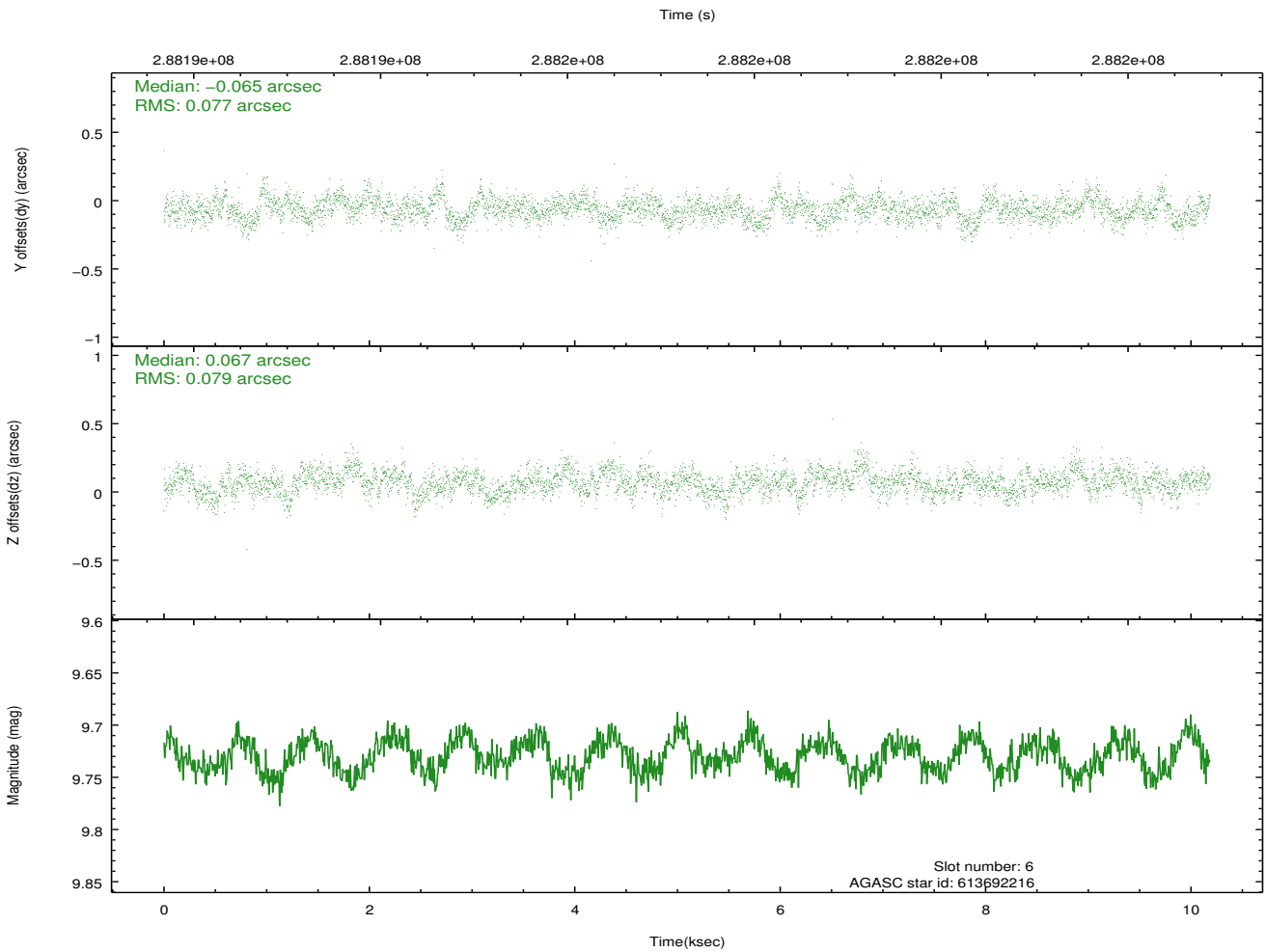
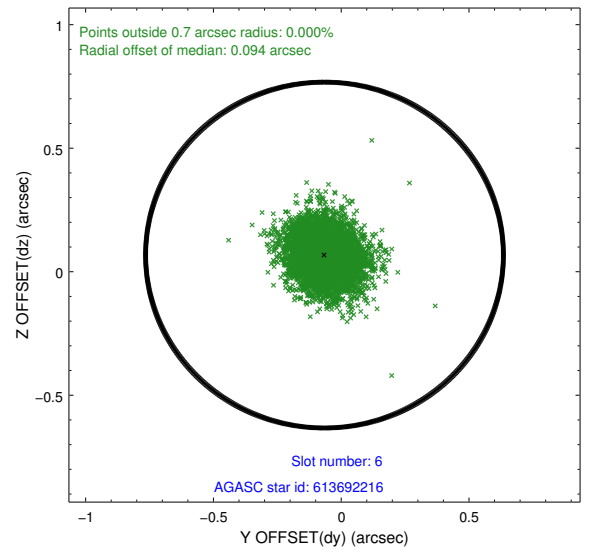
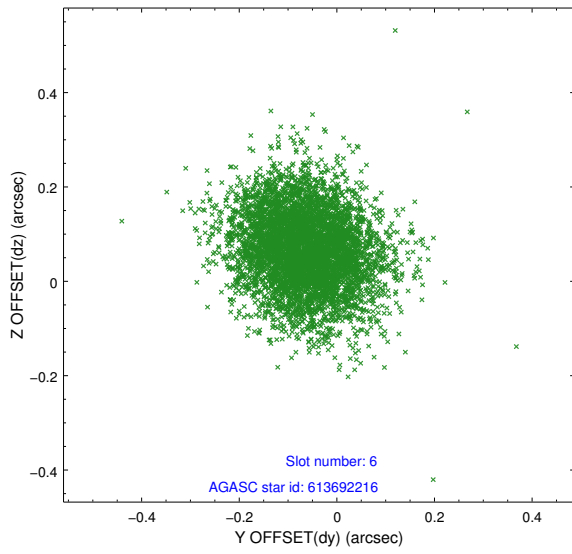
2.4.2 Slot 4



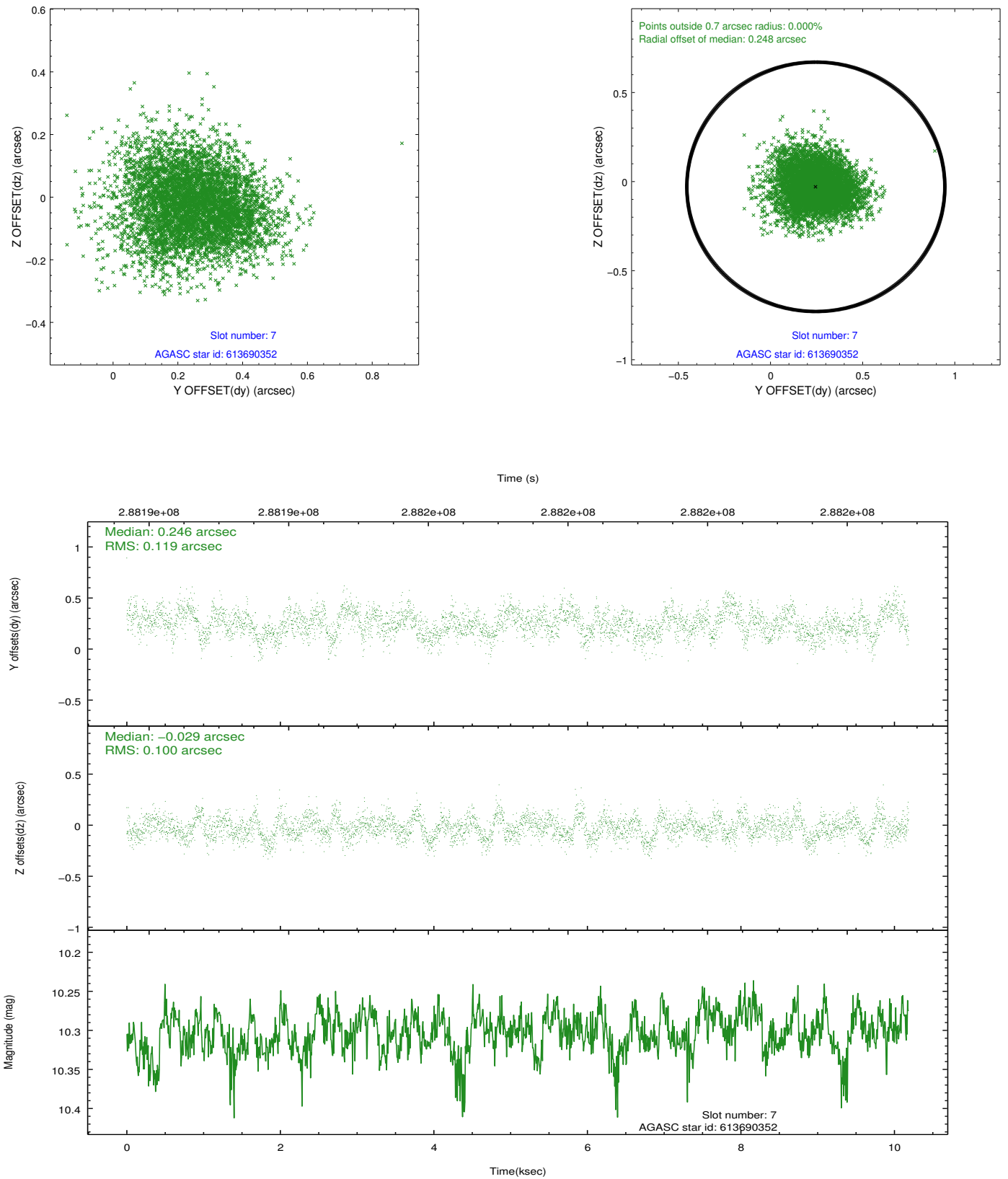
2.4.3 Slot 5



2.4.4 Slot 6

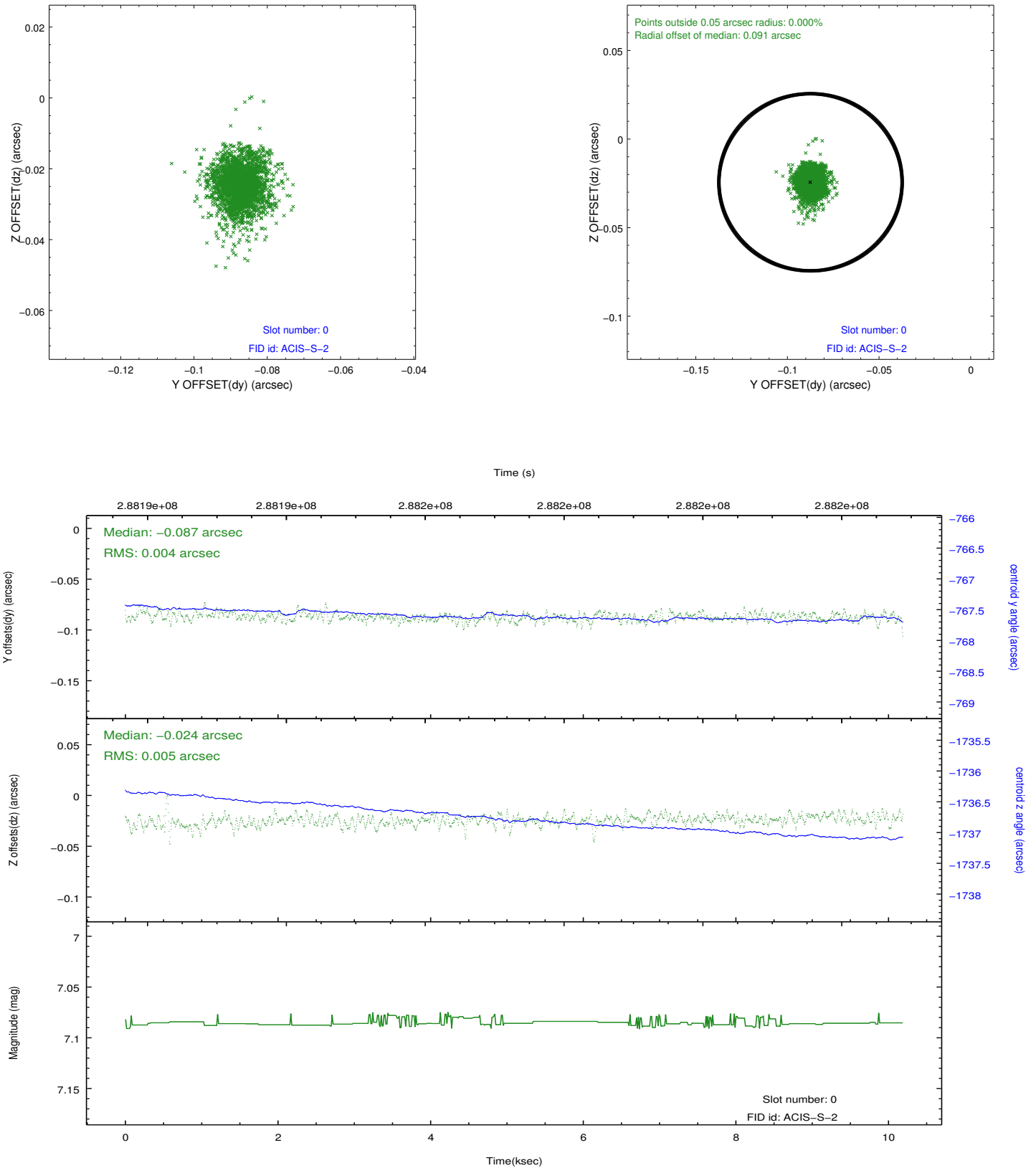


2.4.5 Slot 7

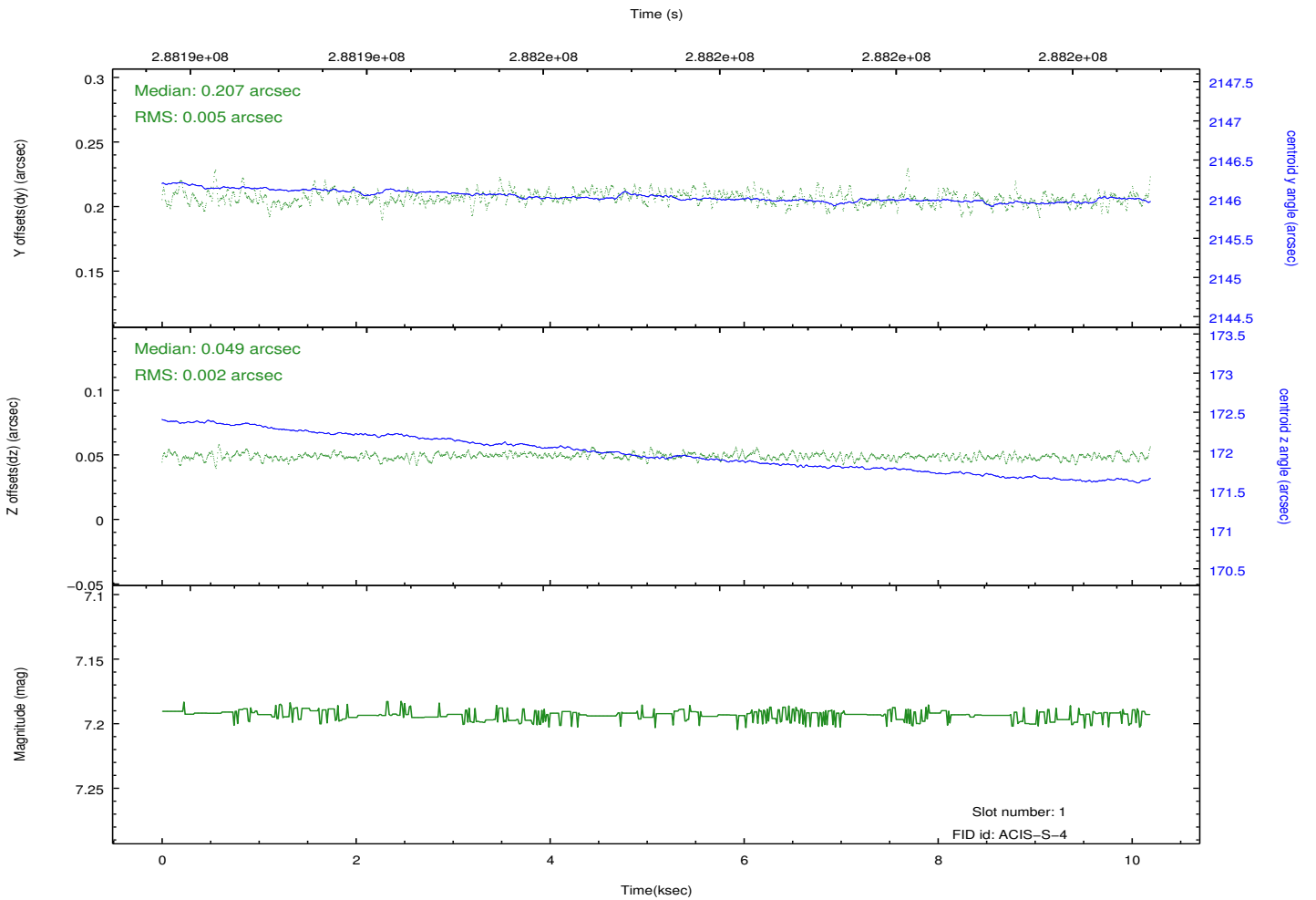
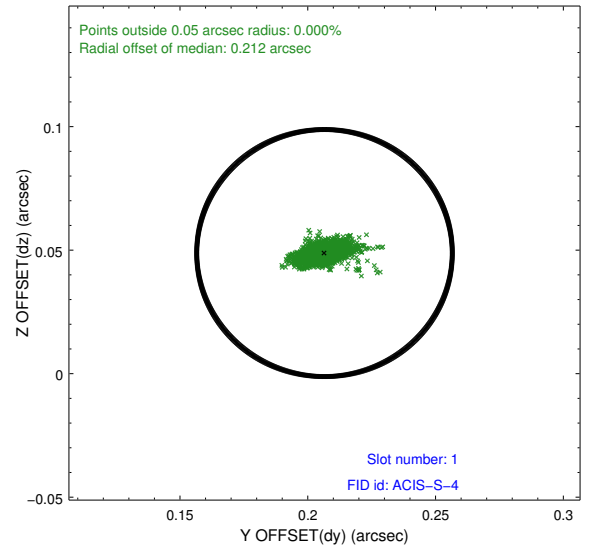
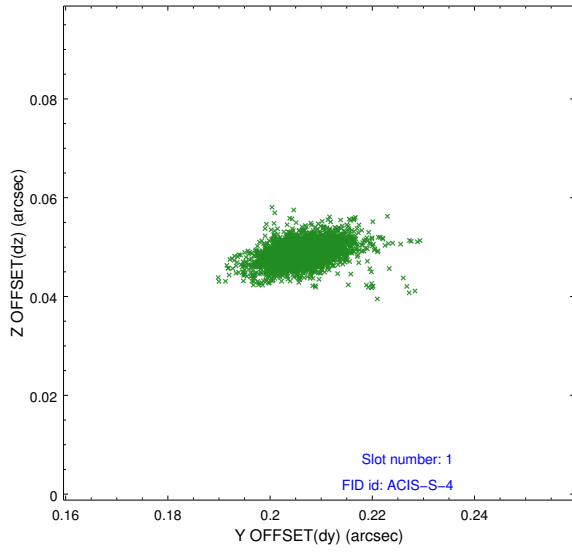


2.5 FID Slots

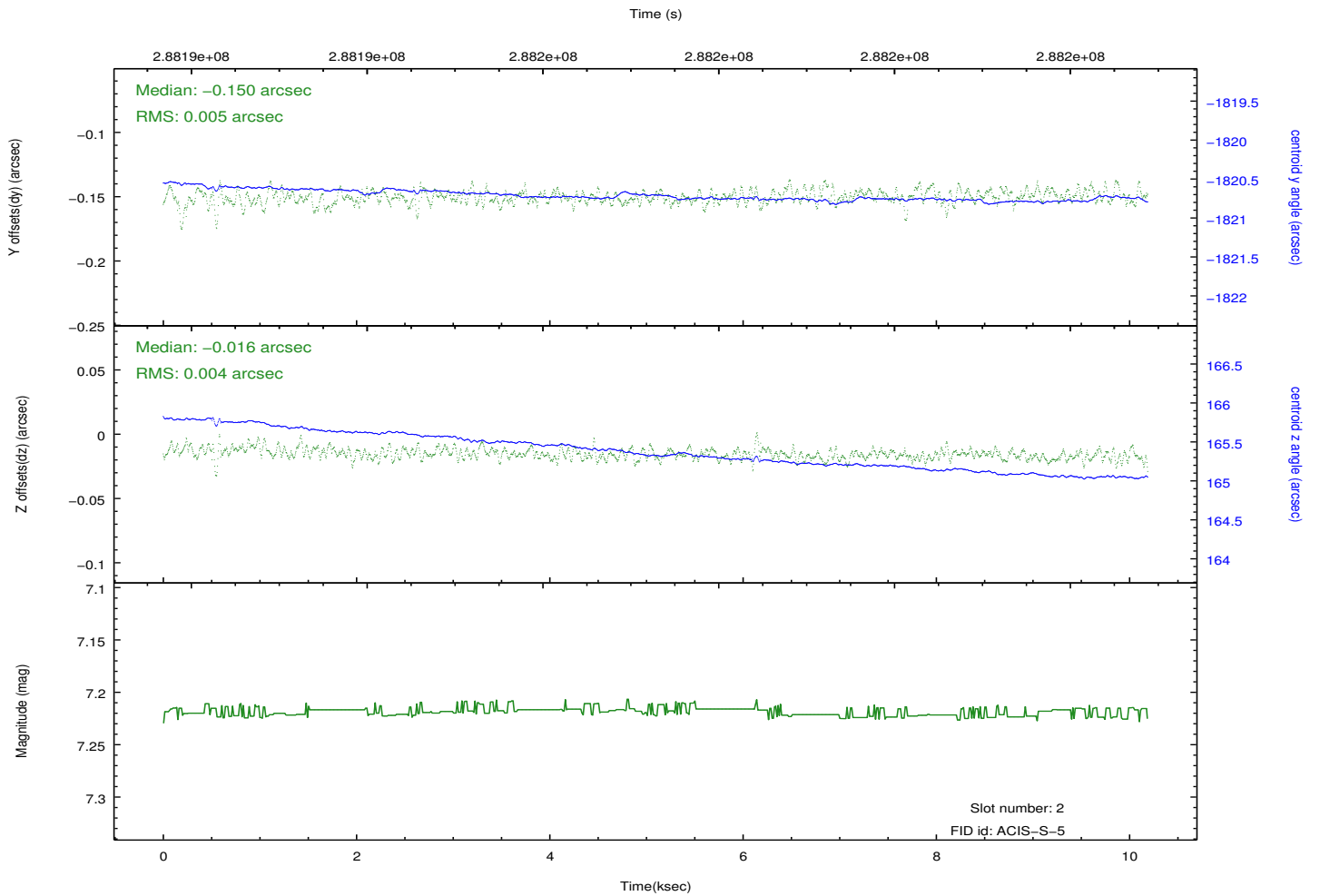
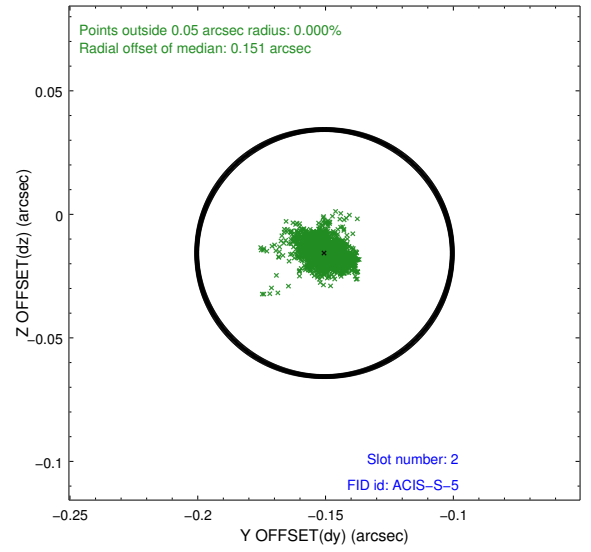
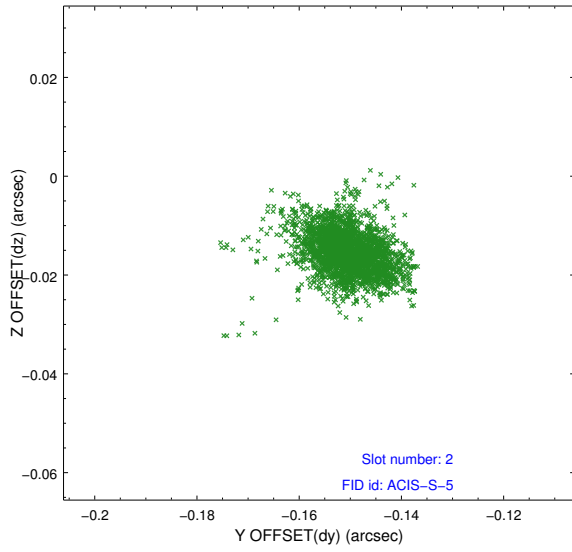
2.5.1 Slot 0



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) | 2012.04.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.1866 |

A.2 Comments