

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5286 - L2 Version 3
Chandra X-Ray Center

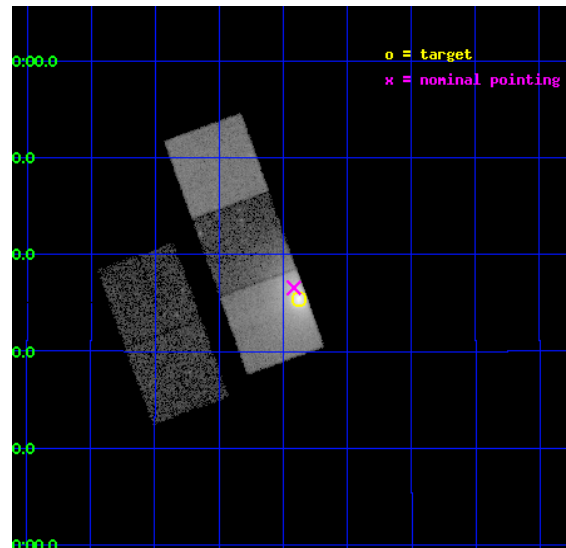
L2 Processing Date : Nov 10 2012

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1 Front

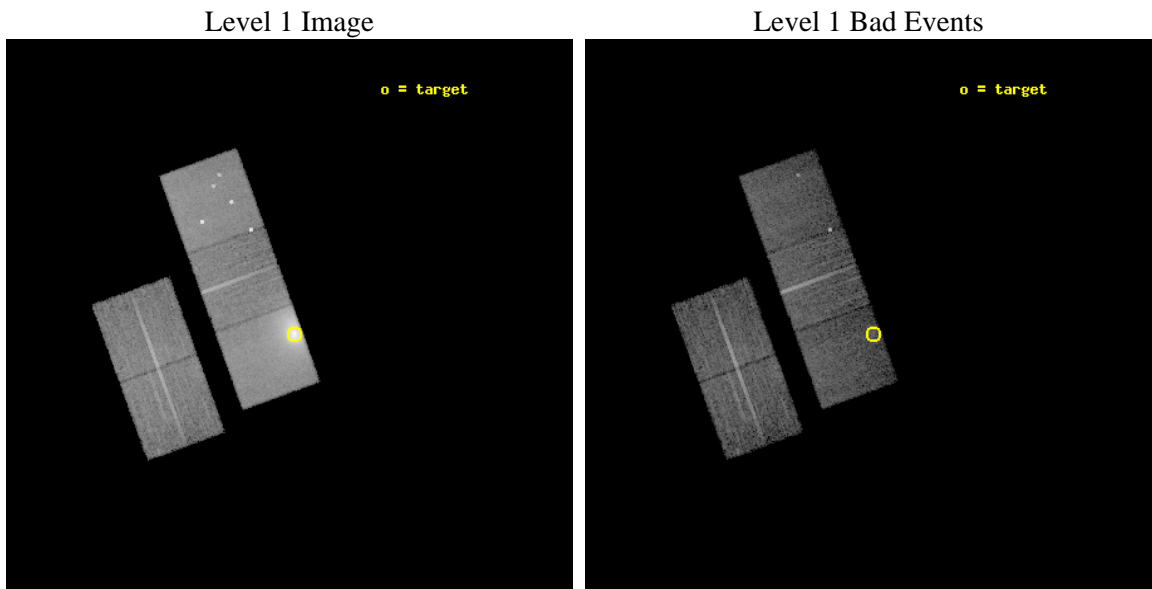
| | | |
|----------|---|---|
| seq_num | 890026 | Sequence number |
| obs_id | 5286 | Observation id |
| title | Mapping the Depth of the Contaminant on the ACIS Filters with Abell 11795 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | A1795 | Source name |
| 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 | 207.22926924877 | Nominal RA [deg] |
| dec_nom | 26.609733123635 | Nominal Dec [deg] |
| roll_nom | 70.118133436014 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 14483.159001857 | Sum of GTIs [s] |
| livetime | 14293.925867151 | Livetime [s] |
| ontime2 | 14486.299972117 | Sum of GTIs [s] |
| ontime3 | 14483.159011781 | Sum of GTIs [s] |
| ontime5 | 14483.159021795 | Sum of GTIs [s] |
| ontime6 | 14480.017981797 | Sum of GTIs [s] |
| ontime7 | 14483.159001857 | Sum of GTIs [s] |
| l2events | 238454 | Number of level 2 events |



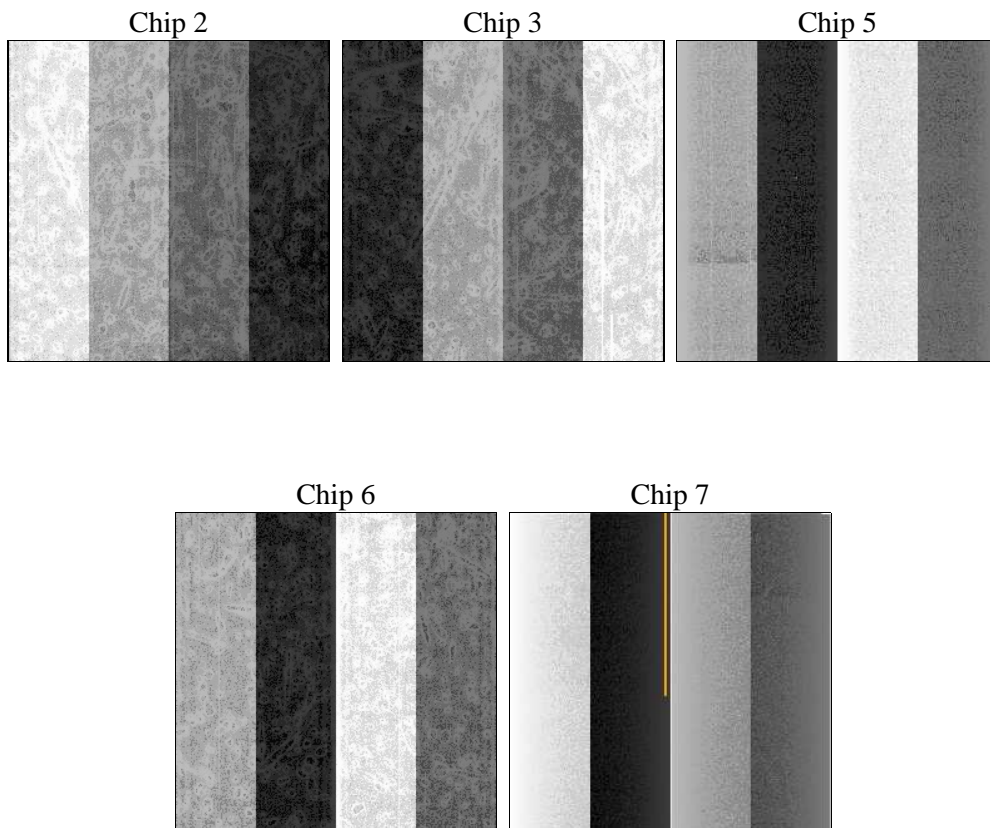
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 14715.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 14483.159001857 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime2 | 14486.299972117 | Sum of GTIs [s] |
| date | 2012-11-10T22:05:13 | Date and time of file creation | ontime3 | 14483.159011781 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime5 | 14483.159021795 | Sum of GTIs [s] |
| | | | ontime6 | 14480.017981797 | Sum of GTIs [s] |
| | | | ontime7 | 14483.159001857 | Sum of GTIs [s] |
| | | | l1events | 541959 | Number of level 1 events |

2.1.4 Events

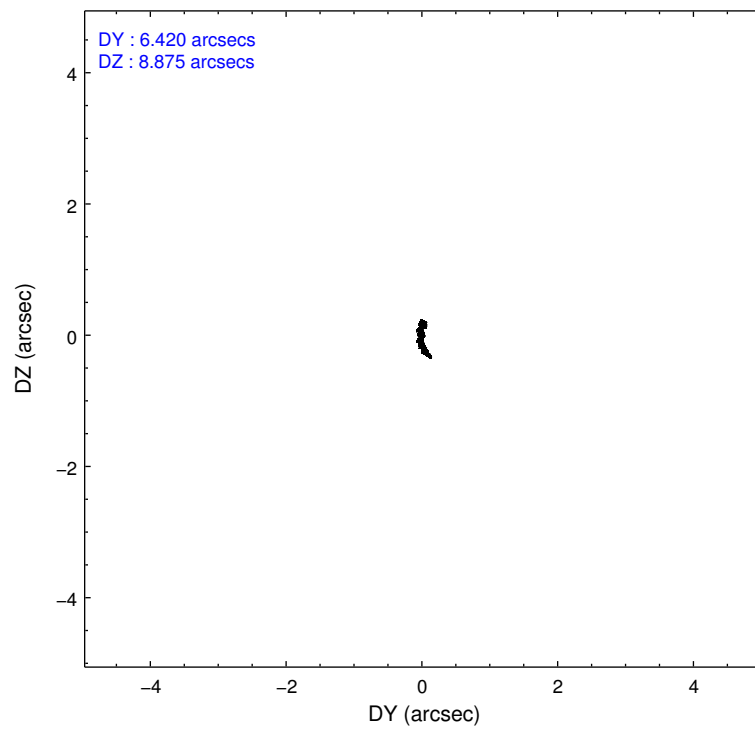
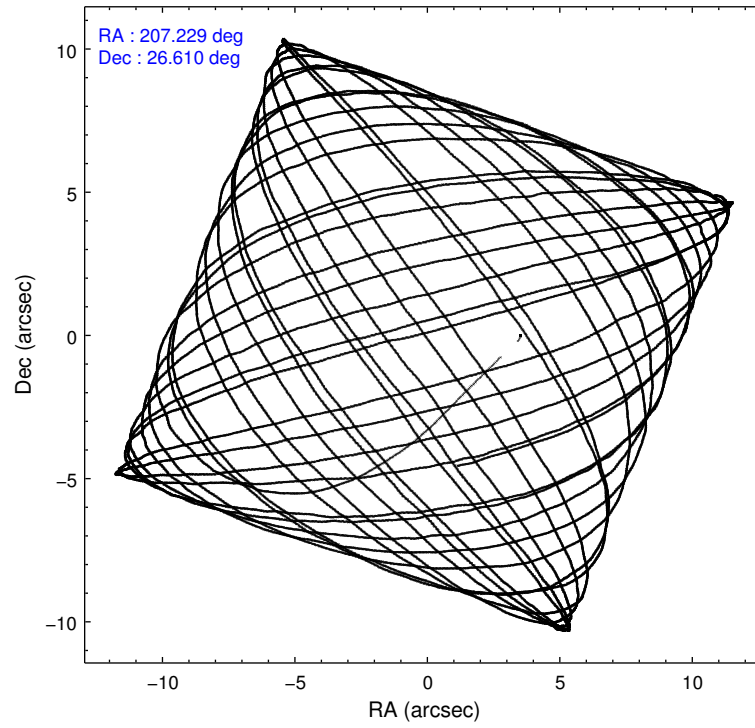
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 |
|-----------------|-------|-------|--------|-------|--------|
| level 1 events | 69853 | 68669 | 110545 | 79638 | 213254 |
| rejected events | 62654 | 61567 | 51453 | 62954 | 46088 |
| rejected % | 89% | 89% | 46% | 79% | 21% |

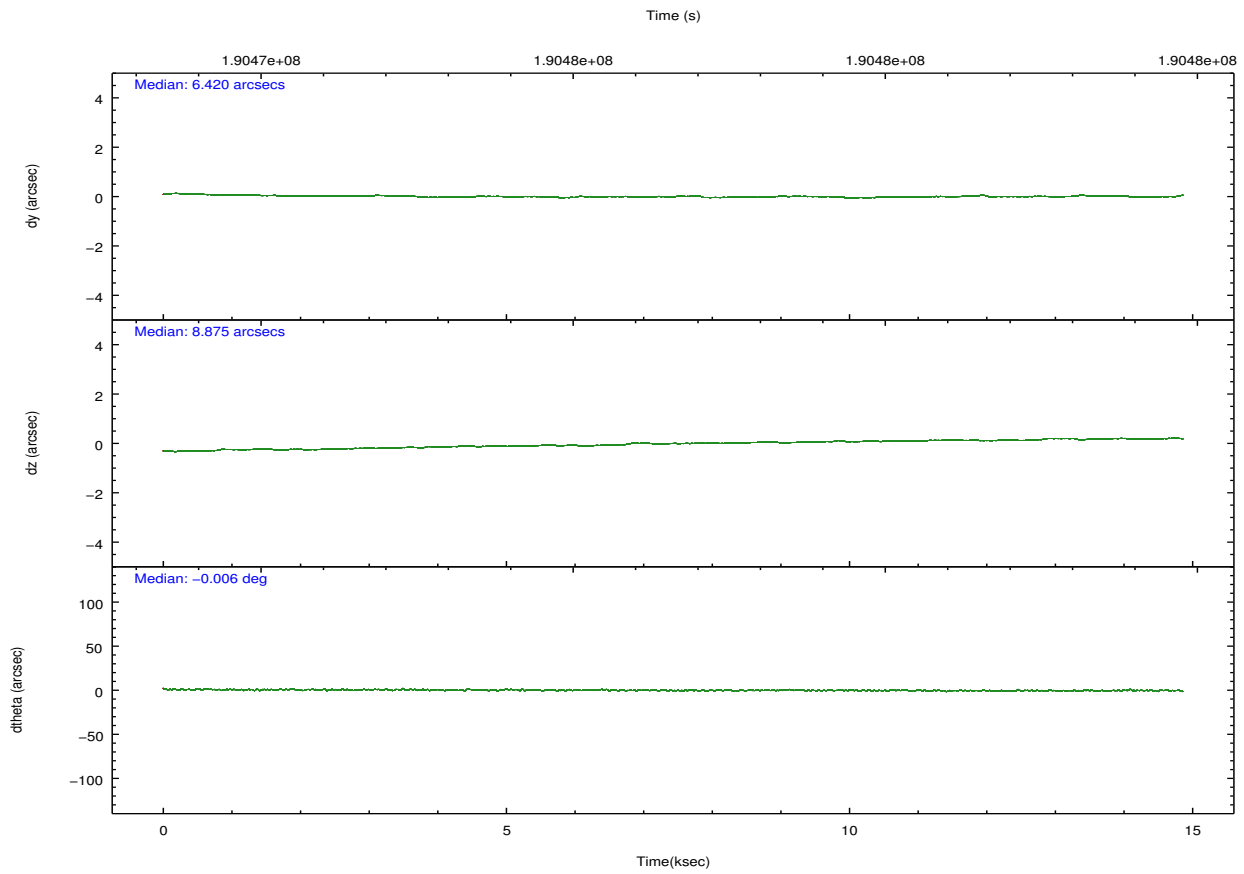
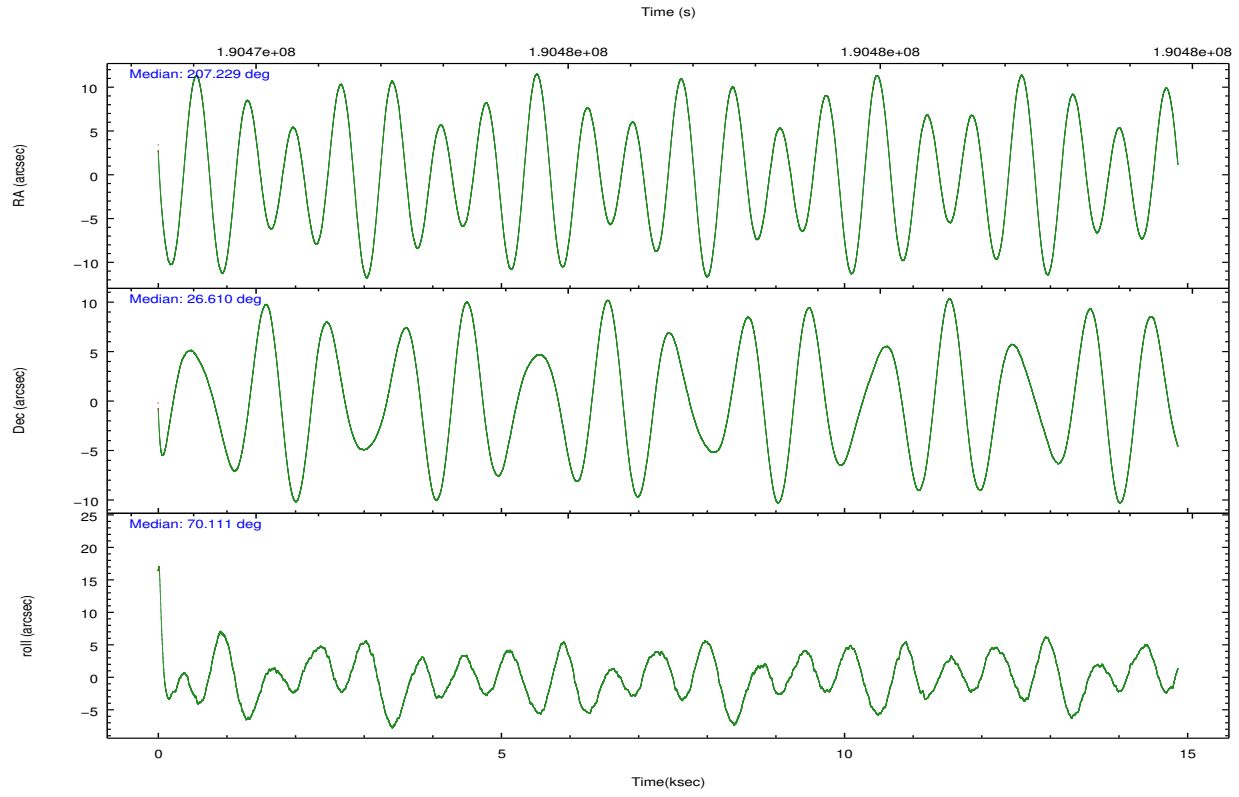
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 2799 | 2664 | 12855 | 10091 | 41075 |
| | 4% | 3% | 11% | 12% | 19% |
| grade 1 events | 38 | 34 | 246 | 74 | 113 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1555 | 1427 | 14558 | 2476 | 41598 |
| | 2% | 2% | 13% | 3% | 19% |
| grade 3 events | 801 | 841 | 2809 | 1131 | 18855 |
| | 1% | 1% | 2% | 1% | 8% |
| grade 4 events | 779 | 826 | 2479 | 1142 | 18734 |
| | 1% | 1% | 2% | 1% | 8% |
| grade 5 events | 2389 | 2840 | 8840 | 3024 | 9515 |
| | 3% | 4% | 7% | 3% | 4% |
| grade 6 events | 1266 | 1349 | 26414 | 1861 | 46988 |
| | 1% | 1% | 23% | 2% | 22% |
| grade 7 events | 60226 | 58688 | 42344 | 59839 | 36376 |
| | 86% | 85% | 38% | 75% | 17% |

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 | 207.235024 | 207.229269248768 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 26.582963 | 26.60973312363496 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 69.958907 | 70.11813343601403 | [s] Primary exposure time | 0.000000 | 3.1 |
| [s] Window start time (MET) | 189302464.184000 | 189302464.184000 | | | |
| [s] Window stop time (MET) | 191894464.184000 | 191894464.184000 | | | |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -180.332523 | -180.3266934278832 | | | |
| [mm] SIM translation stage offset | -9.800000000000001 | -9.805829155124599 | | | |
| [s] Observation start time (MET) | 190469312.184000 | 190468151.6987 | | | |
| Observation start date | 2004-01-14T12:07:28 | 2004-01-14T11:49:11 | | | |
| [s] Observation end time (MET) | 190484027.184000 | 190484161.1744 | | | |
| Observation end date | 2004-01-14T16:12:43 | 2004-01-14T16:16:01 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect





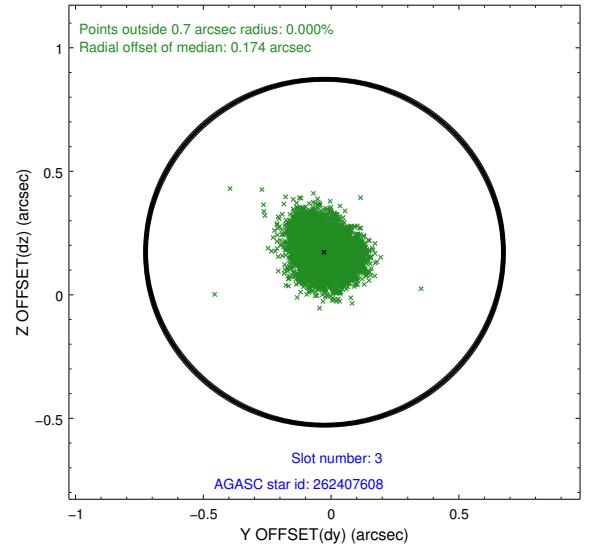
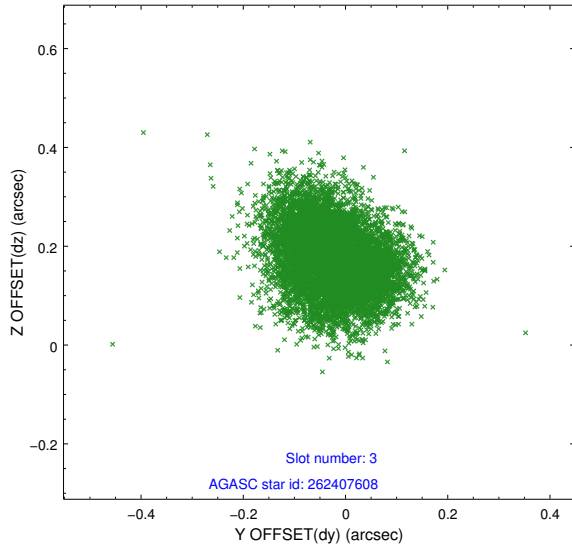
Slot Statistics

| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-1 | 7.19 | 3622 | 0.060 | 0.192 | 0.010 | 0.016 | 0.000000 | 0.000000 | 937.69 | -1927.41 |
| 1 | FID | ACIS-S-2 | 7.08 | 3623 | -0.183 | -0.158 | 0.010 | 0.017 | 0.000000 | 0.000000 | -758.28 | -1932.71 |
| 2 | FID | ACIS-S-6 | 7.43 | 3623 | 0.104 | -0.031 | 0.008 | 0.013 | 0.000000 | 0.000000 | 403.21 | 613.31 |
| 3 | GUIDE | 262407608 | 9.36 | 7242 | -0.026 | 0.172 | 0.101 | 0.157 | 207.378401 | 26.435507 | -339.82 | -615.71 |
| 4 | GUIDE | 262407760 | 9.93 | 7245 | -0.081 | -0.235 | 0.117 | 0.187 | 206.566773 | 26.577263 | -751.52 | 2016.07 |
| 5 | GUIDE | 262408096 | 9.35 | 7245 | 0.025 | -0.019 | 0.088 | 0.141 | 207.011678 | 26.515421 | -474.34 | 593.39 |
| 6 | GUIDE | 262411960 | 9.69 | 7243 | 0.111 | 0.167 | 0.139 | 0.214 | 207.327895 | 25.881727 | -2268.03 | -1147.51 |
| 7 | GUIDE | 262408936 | 9.69 | 7235 | -0.031 | -0.082 | 0.101 | 0.162 | 207.154731 | 26.726554 | 397.01 | 419.67 |

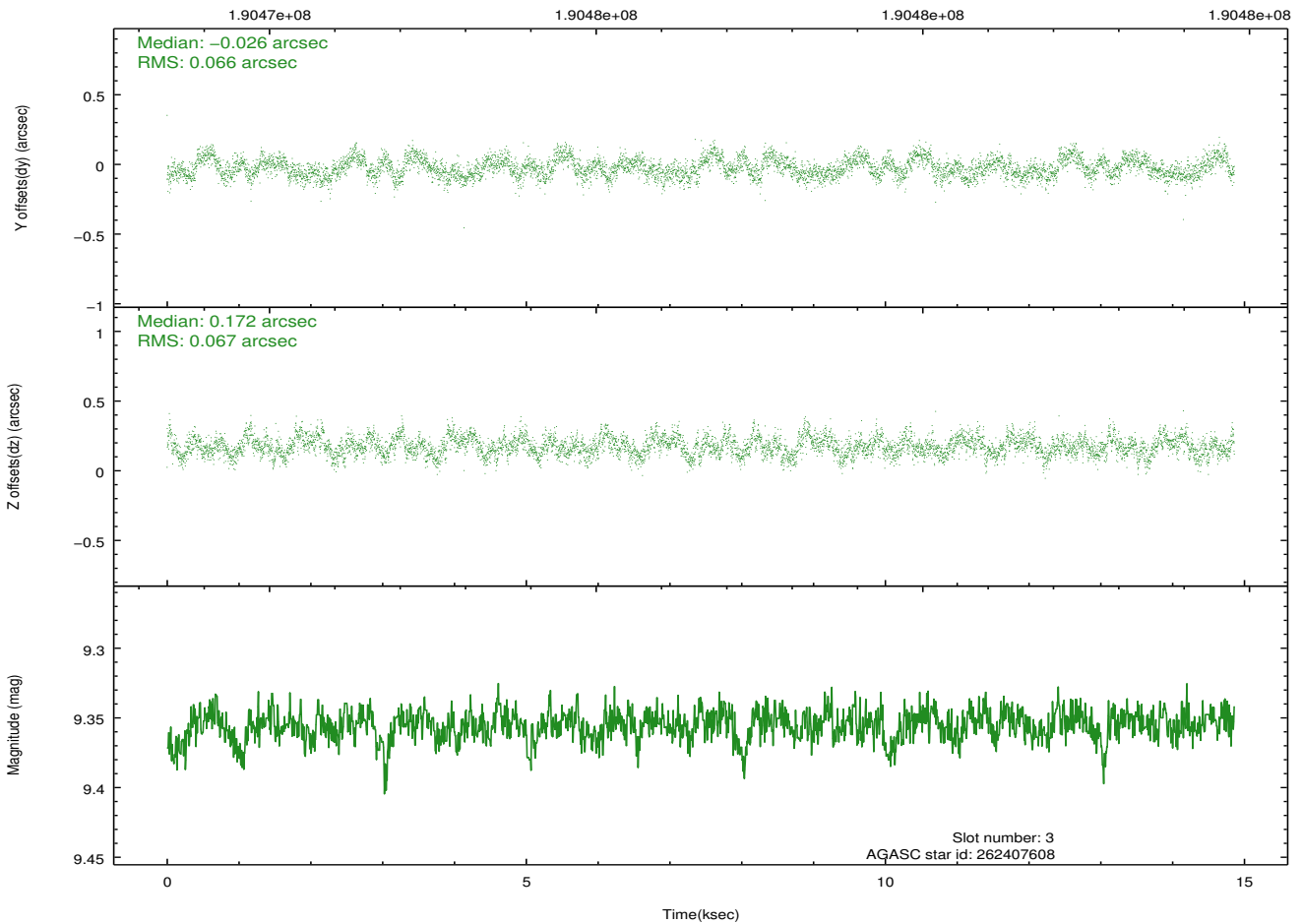
∞

2.4 Star Slots

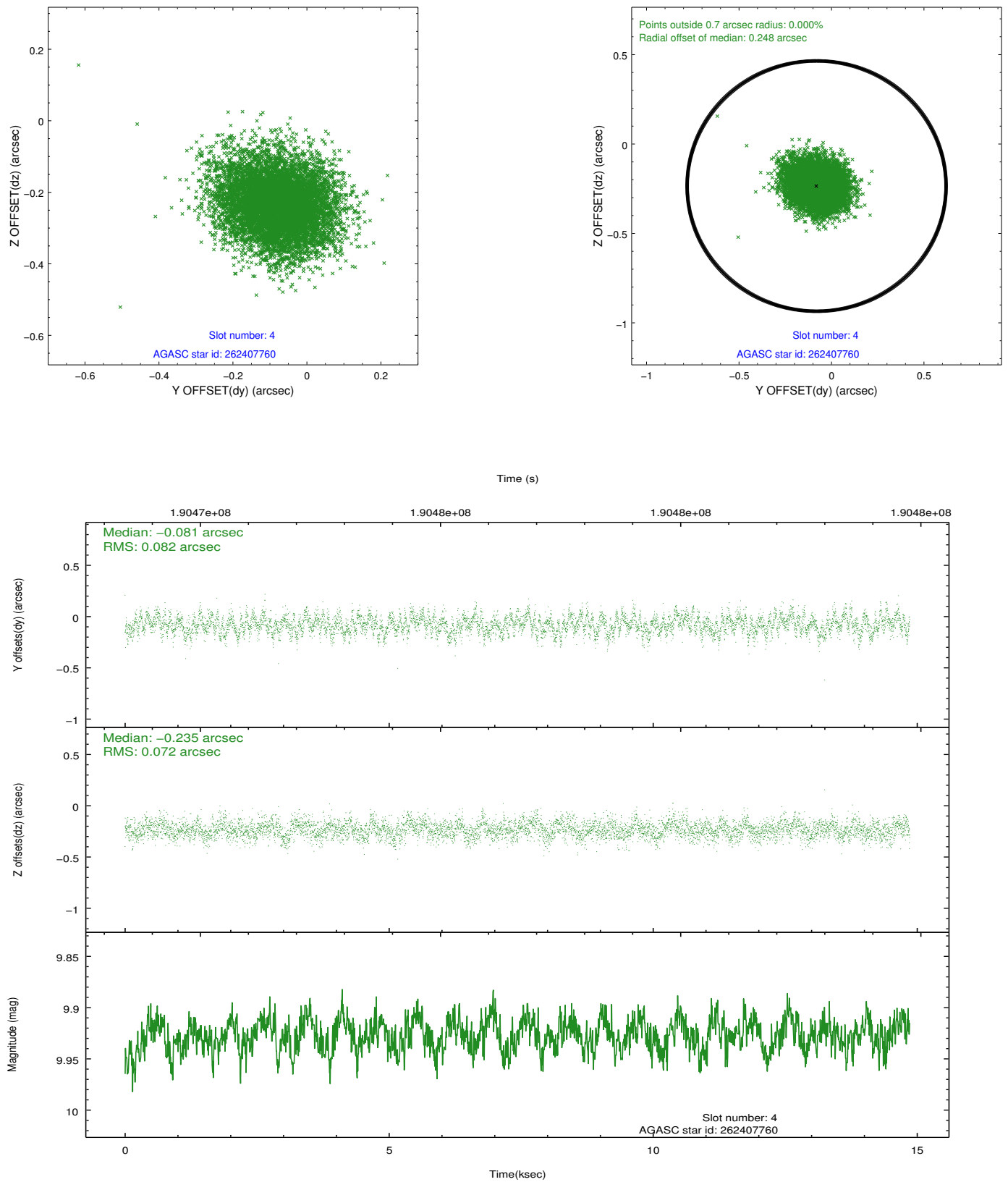
2.4.1 Slot 3



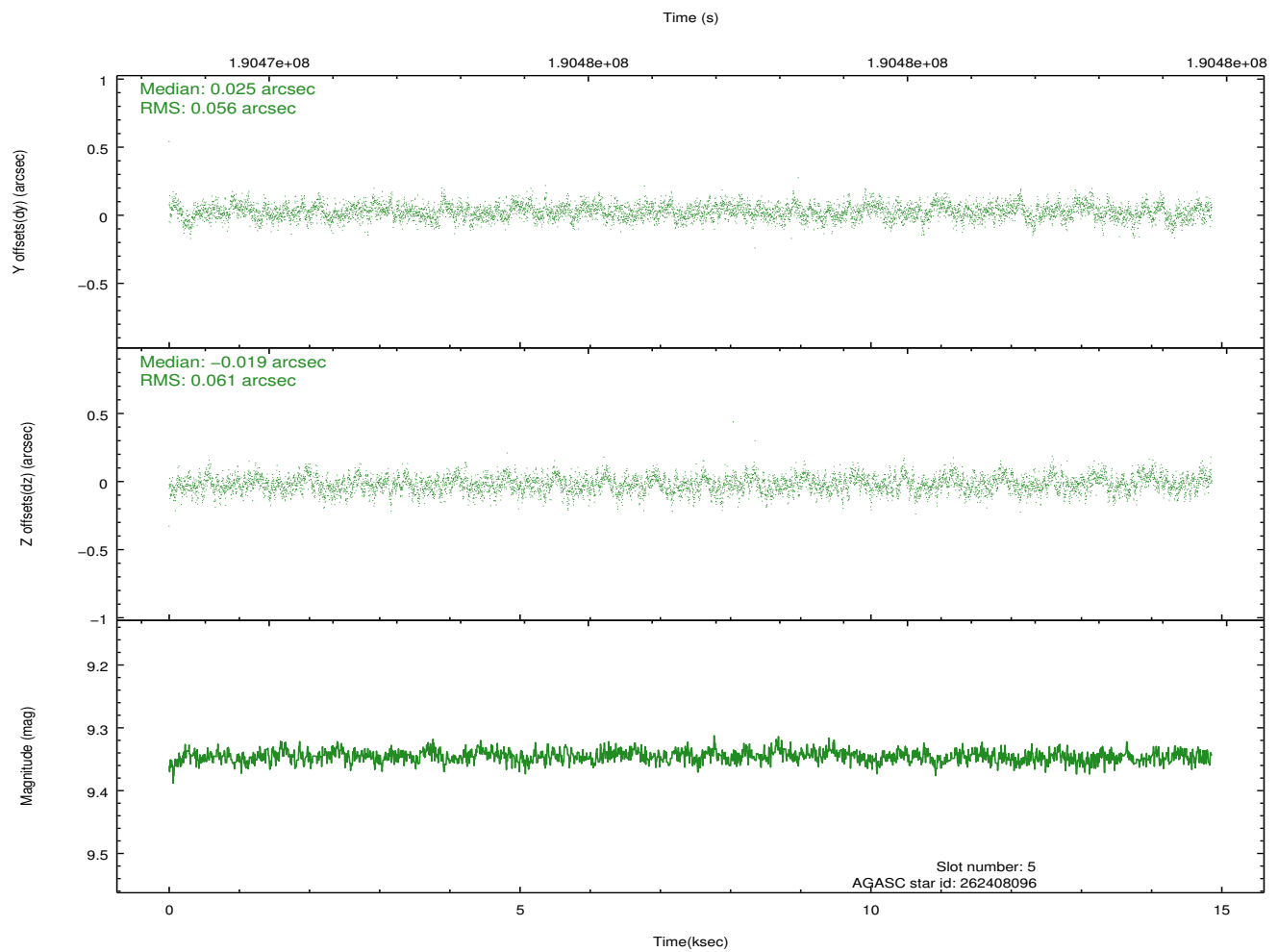
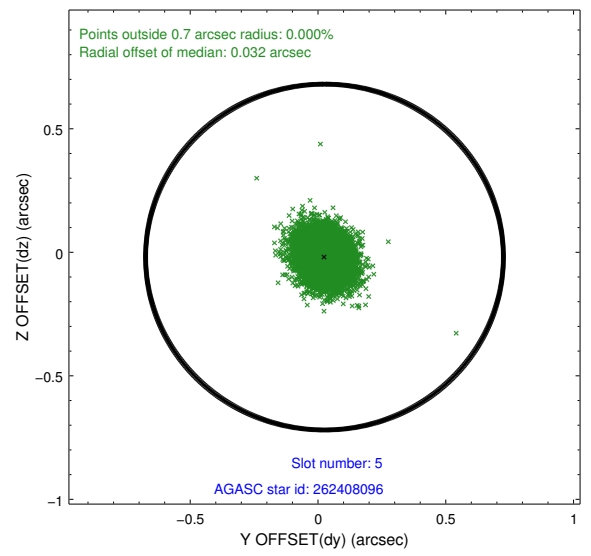
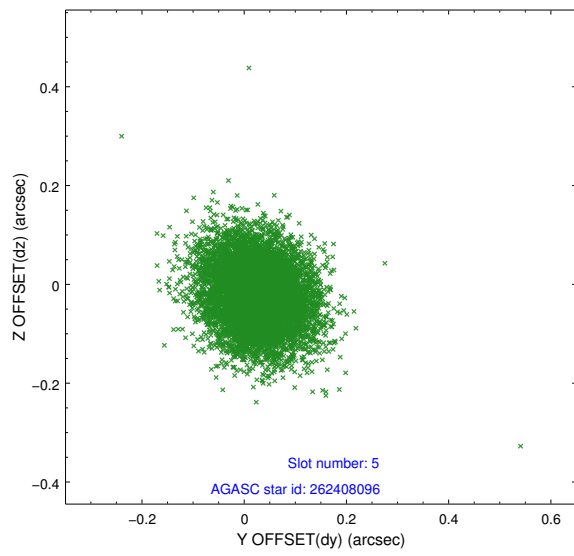
Time (s)



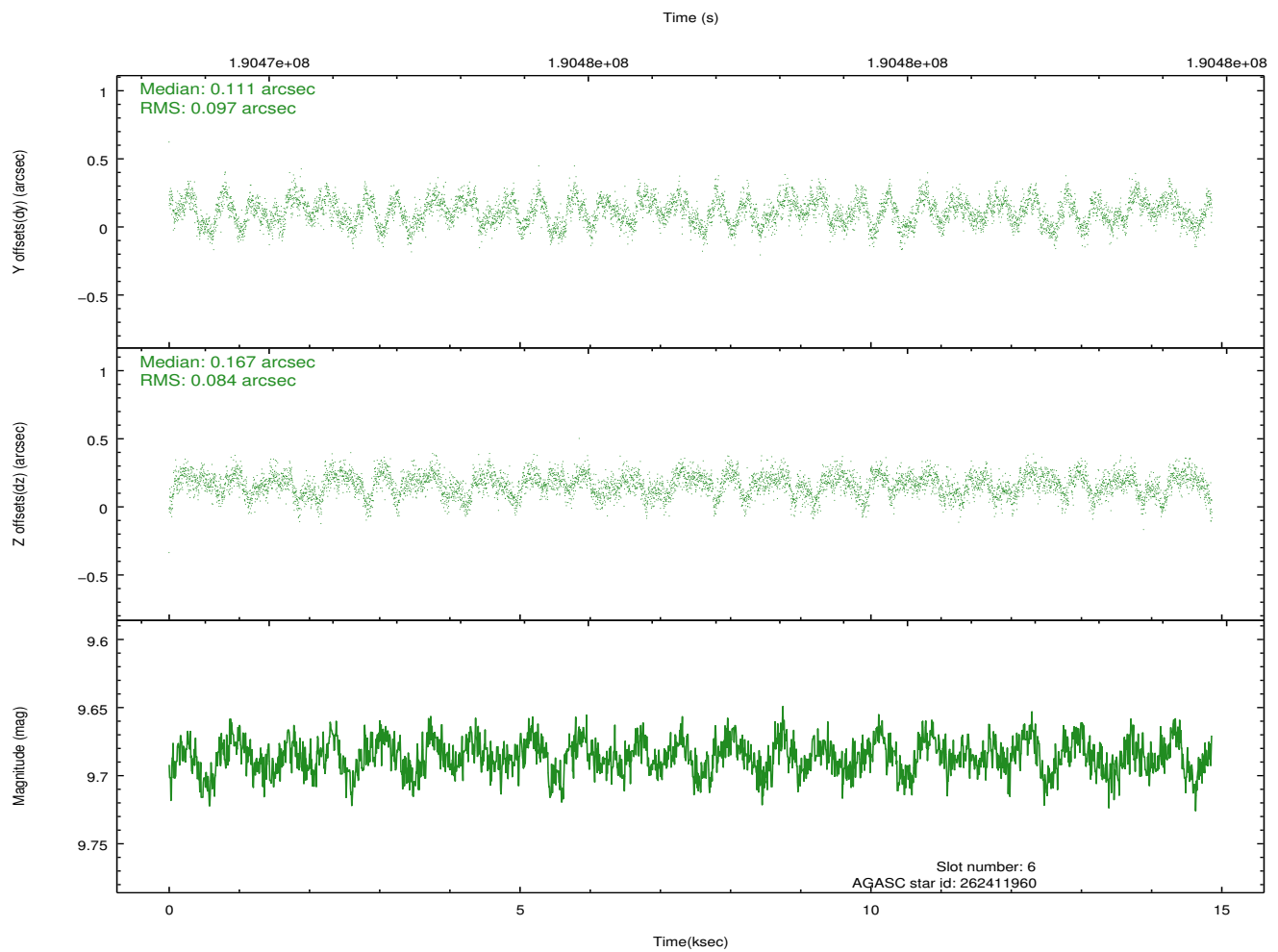
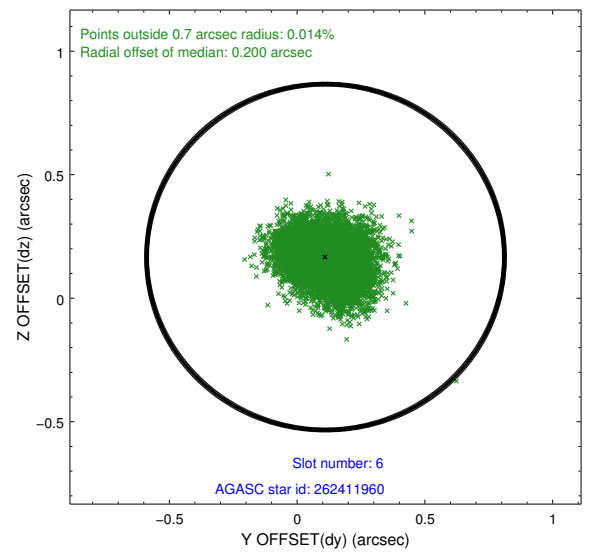
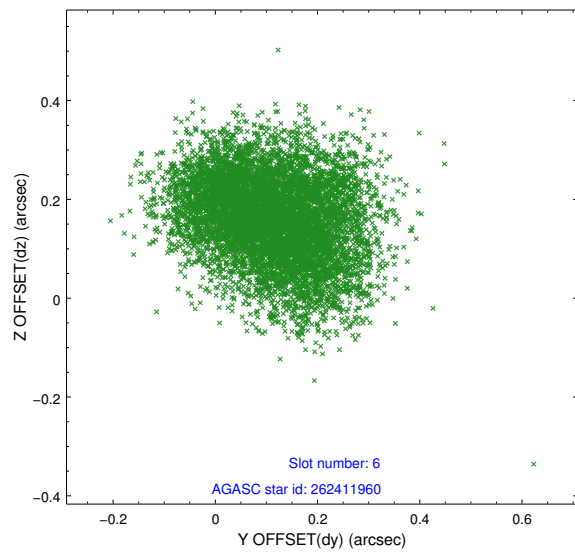
2.4.2 Slot 4



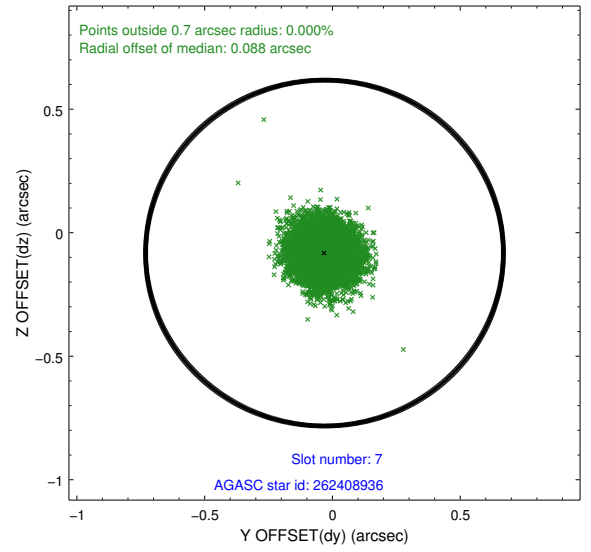
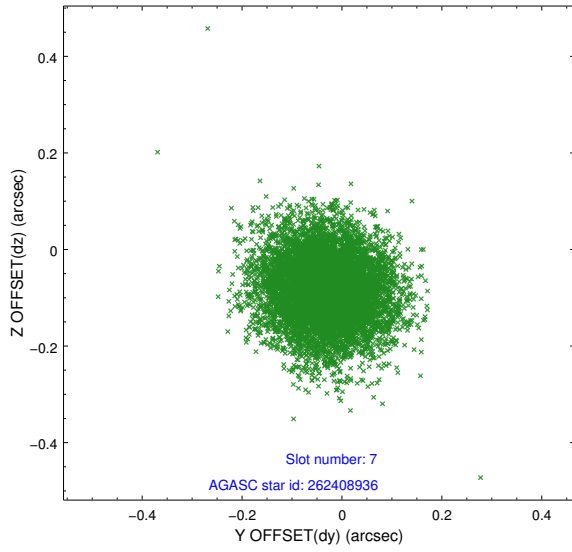
2.4.3 Slot 5



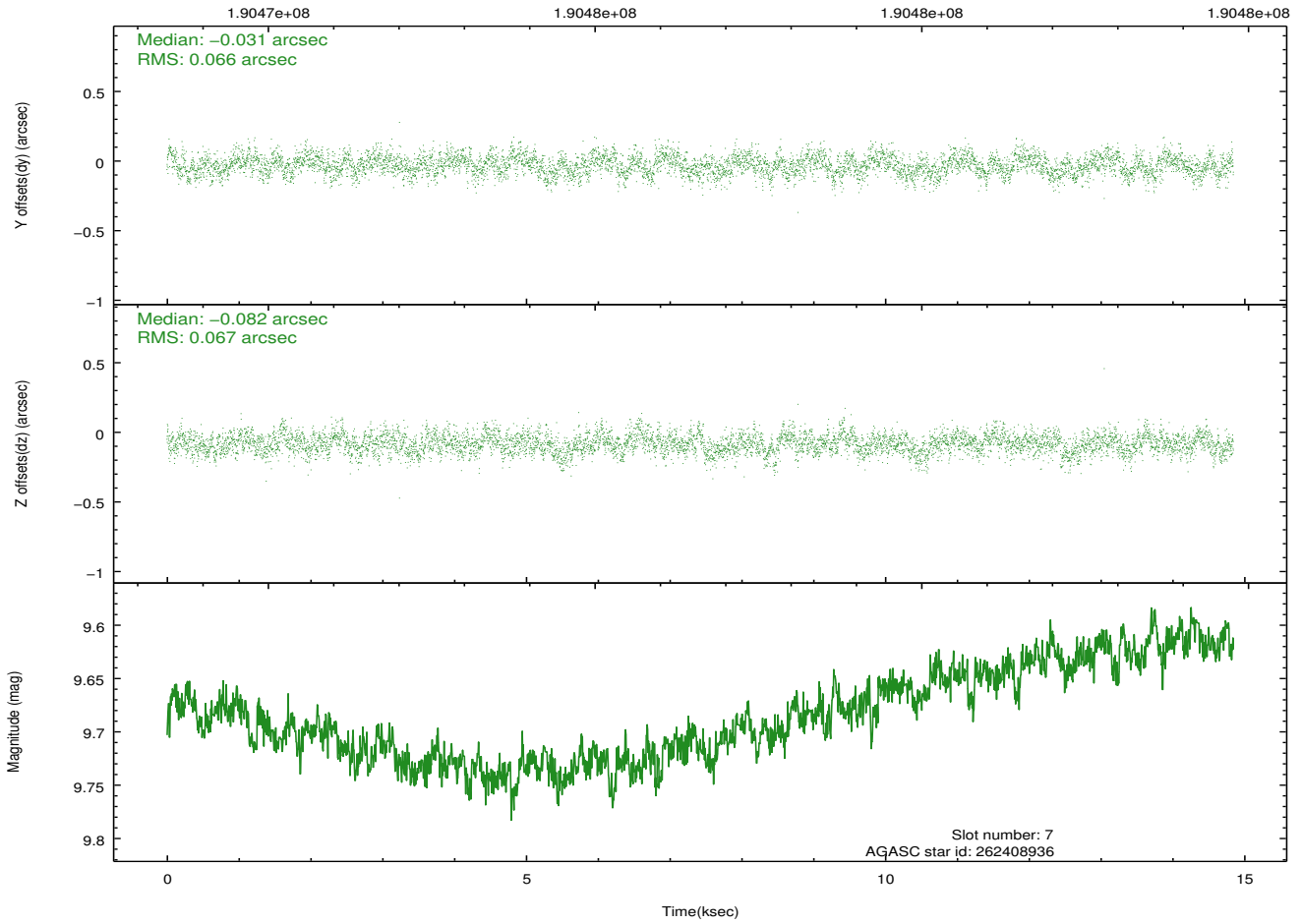
2.4.4 Slot 6



2.4.5 Slot 7

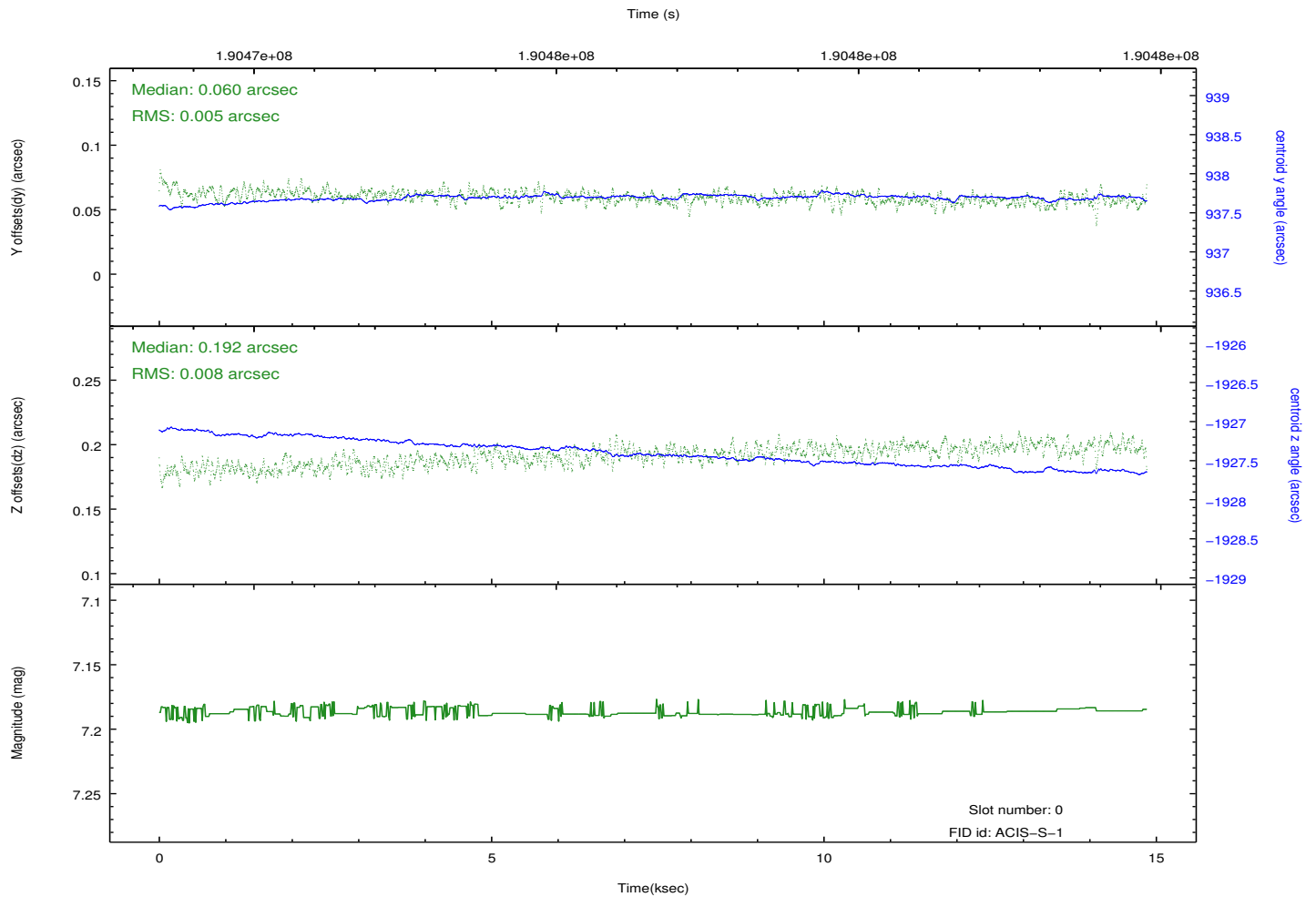
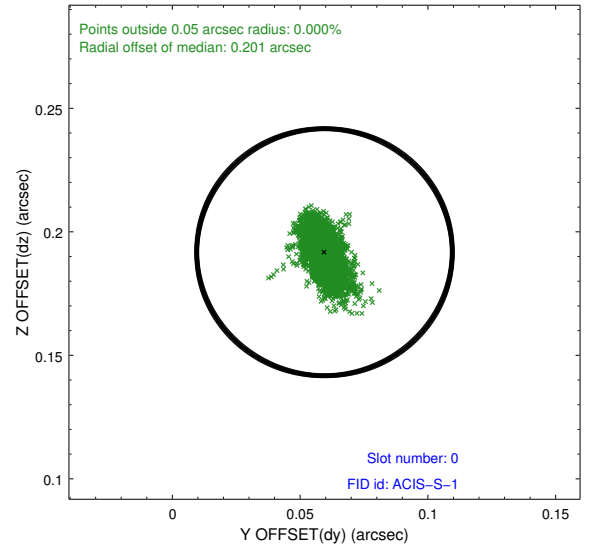
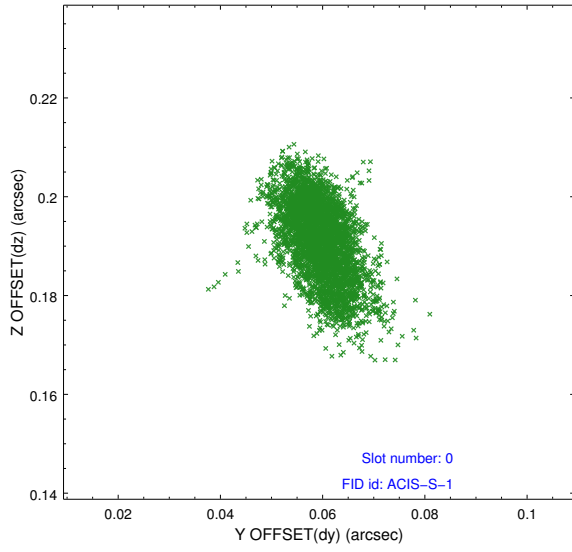


Time (s)

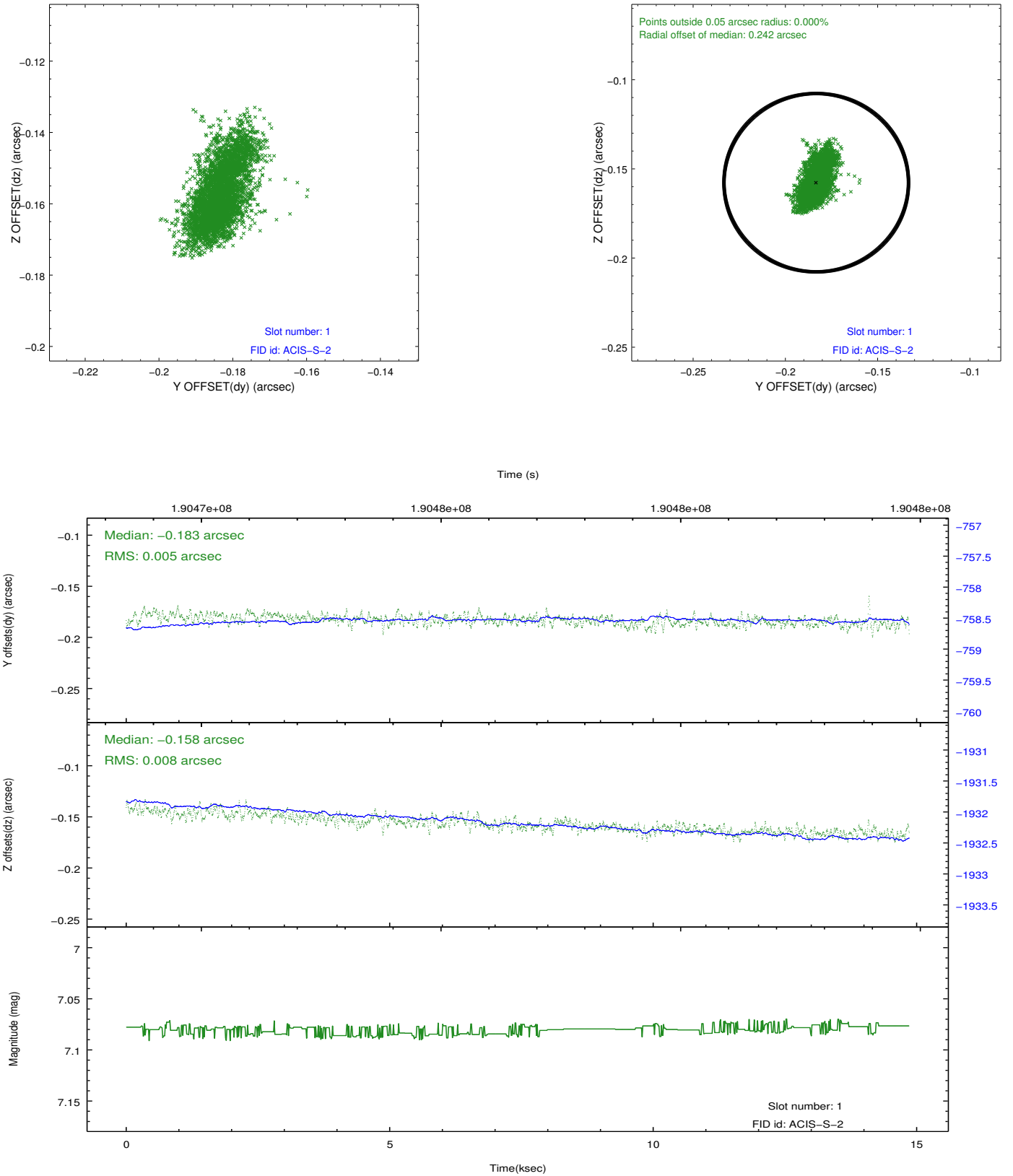


2.5 FID Slots

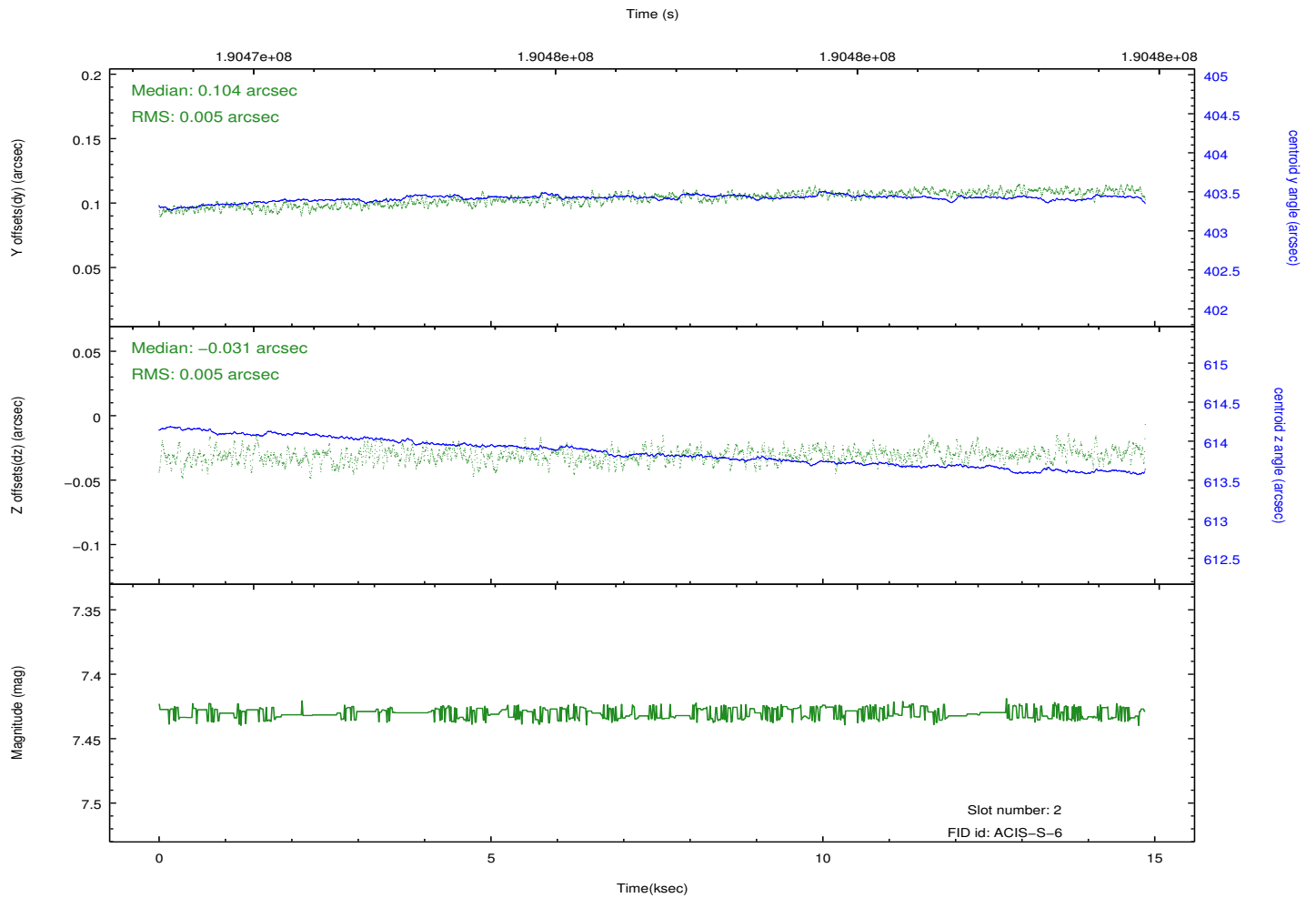
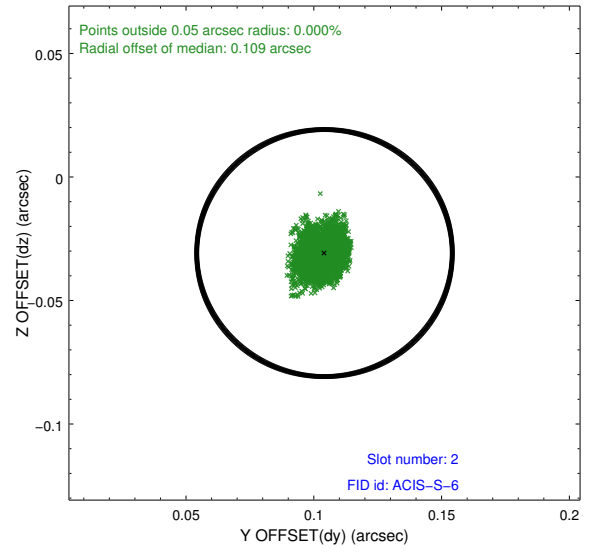
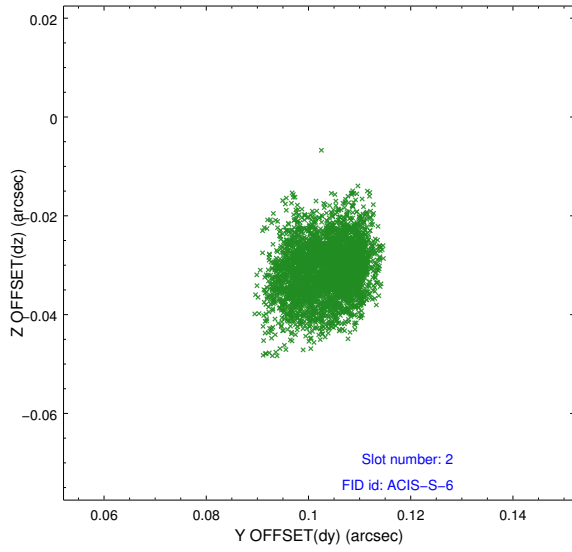
2.5.1 Slot 0



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) | 2012.12.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 14.486 |

A.2 Comments

Window constraint met. Target is near the edge of the chip.