

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 7181 - L2 Version 002
Chandra X-Ray Center

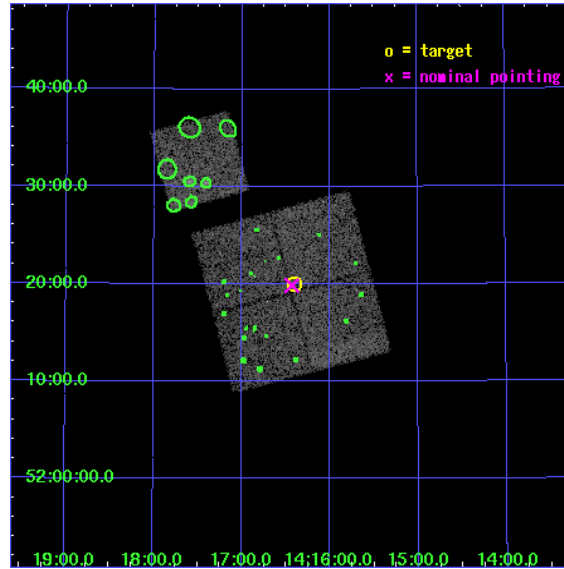
L2 Processing Date : Apr 2 2006

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1 Front

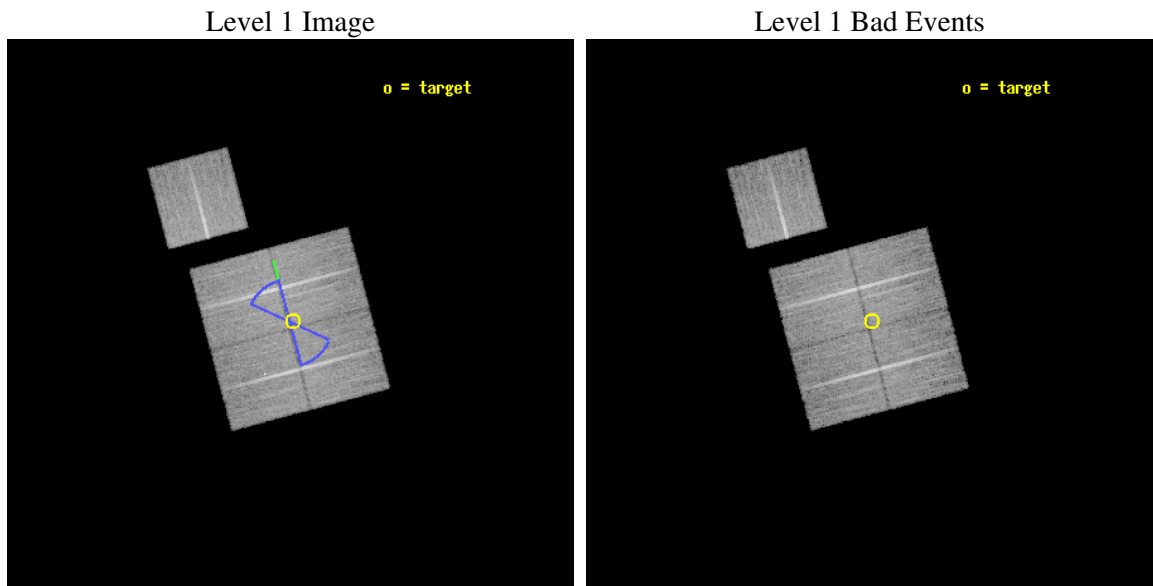
| | |
|----------|--|
| seq_num | 900353 |
| obs_id | 7181 |
| title | Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies |
| observer | Professor Kirpal Nandra |
| object | EGS-6 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 214.102081 |
| dec_targ | 52.334053 |
| ra_nom | 214.10802813366 |
| dec_nom | 52.331214740303 |
| roll_nom | 345.20397816019 |
| revision | 2 |
| ontime | 16194.399968863 |
| livetime | 15982.808211126 |
| ontime0 | 16188.117948622 |
| ontime1 | 16194.399968863 |
| ontime2 | 16194.399968863 |
| ontime3 | 16194.399968863 |
| ontime6 | 16194.399968863 |
| l2events | 44716 |



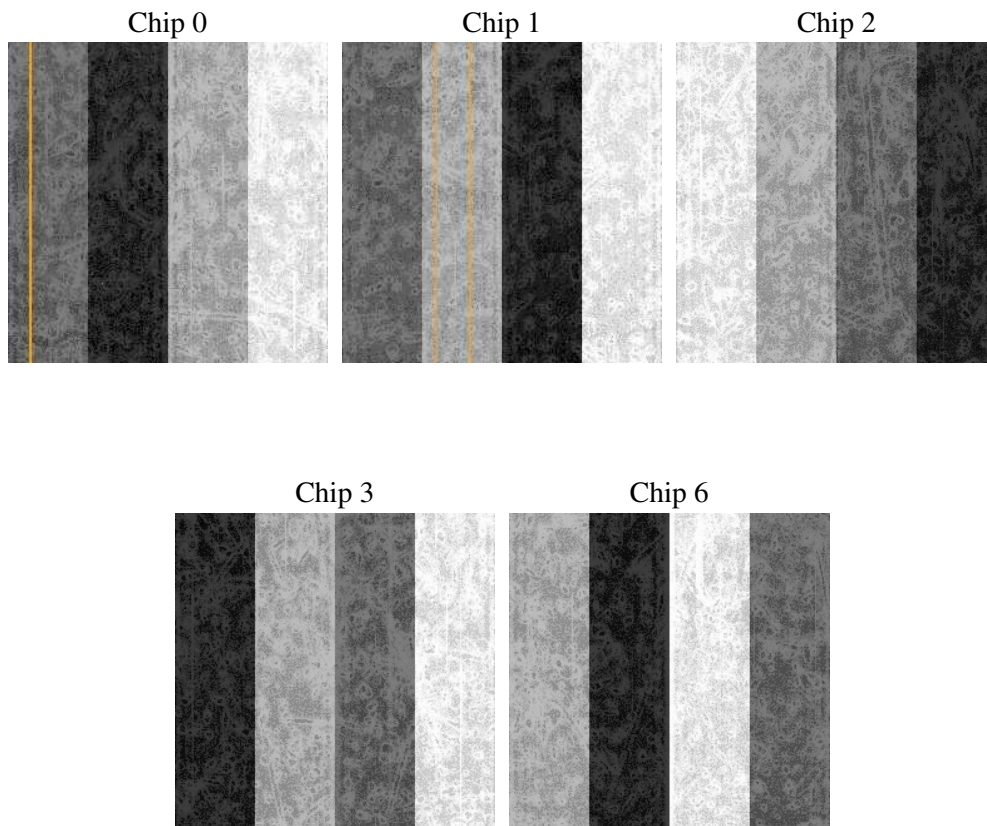
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.1 |
| caldbver | 3.2.1 |
| date | 2006-04-02T09:25:58 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 16035.363000 |
| ontime | 16600.216044873 |
| ontime0 | 16593.934024632 |
| ontime1 | 16600.216044873 |
| ontime2 | 16600.216044873 |
| ontime3 | 16600.216044873 |
| ontime6 | 16600.216044873 |
| l1events | 526744 |

2.1.4 Events

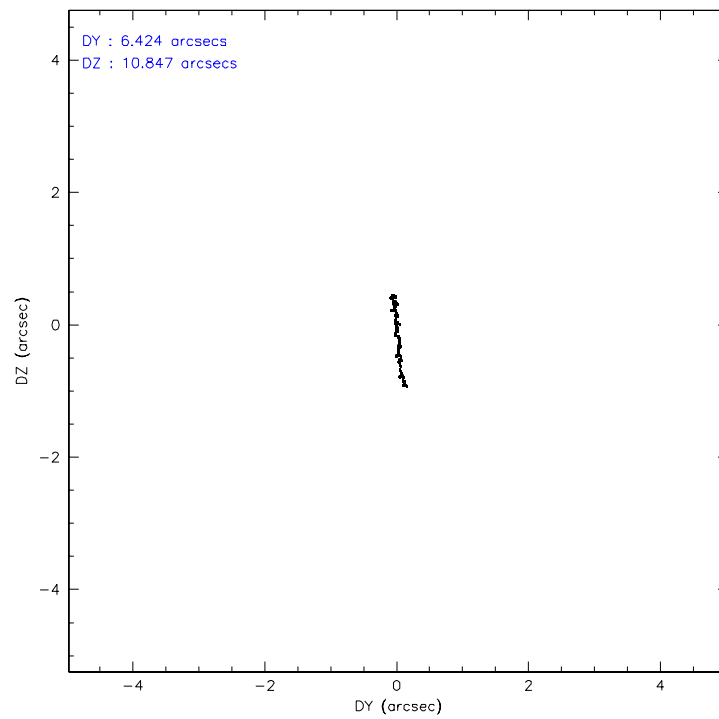
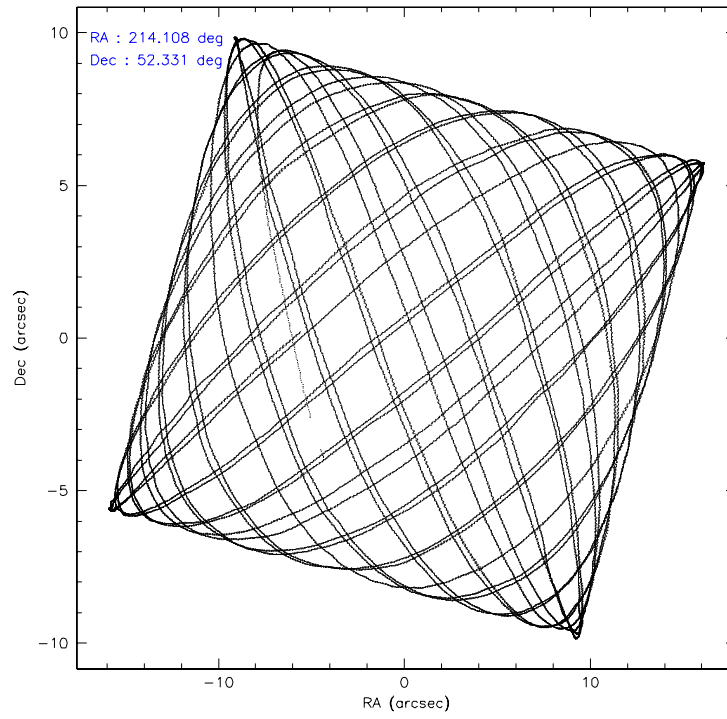
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|--------|--------|--------|--------|
| level 1 events | 99364 | 101406 | 114192 | 106308 | 105474 |
| rejected events | 88531 | 89792 | 103734 | 96643 | 94415 |
| rejected % | 89% | 88% | 90% | 90% | 89% |

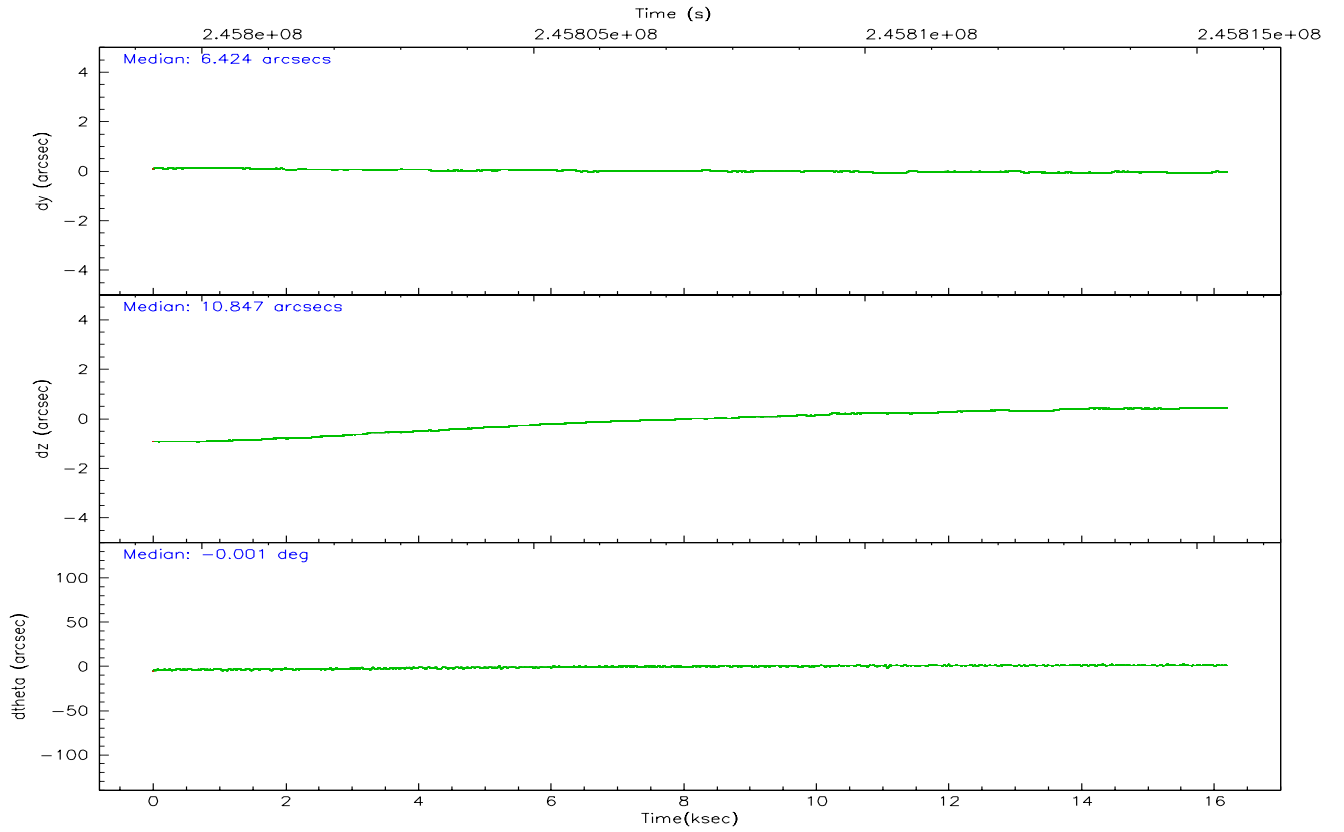
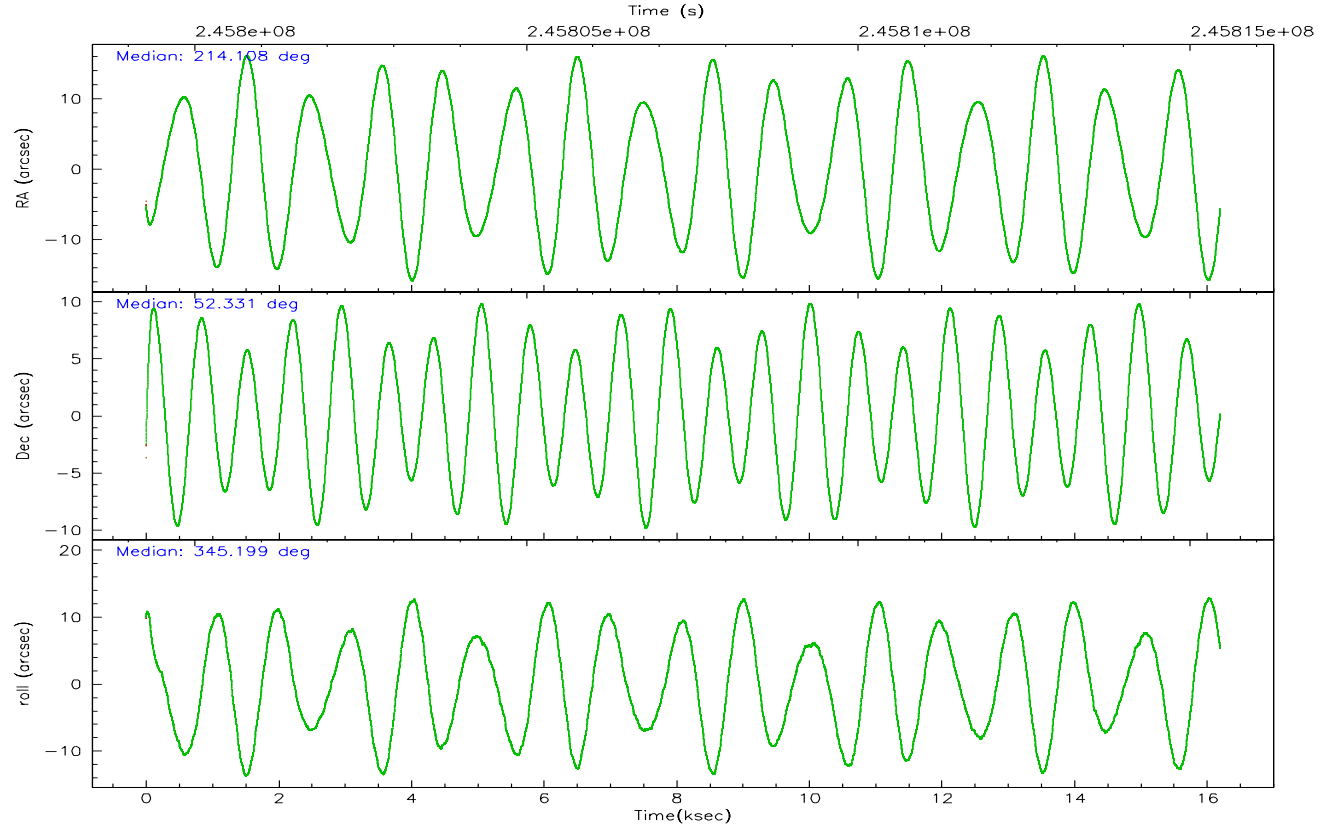
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|--------|-------|-------|
| grade 0 events | 4232 | 4298 | 4048 | 3493 | 3979 |
| | 4% | 4% | 3% | 3% | 3% |
| grade 1 events | 59 | 57 | 62 | 49 | 47 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 2450 | 2585 | 2434 | 2154 | 2430 |
| | 2% | 2% | 2% | 2% | 2% |
| grade 3 events | 1249 | 1361 | 1176 | 1140 | 1214 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 1103 | 1322 | 1153 | 1115 | 1226 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 3595 | 4070 | 3431 | 4352 | 4310 |
| | 3% | 4% | 3% | 4% | 4% |
| grade 6 events | 2071 | 2320 | 1882 | 2015 | 2482 |
| | 2% | 2% | 1% | 1% | 2% |
| grade 7 events | 84605 | 85393 | 100006 | 91990 | 89786 |
| | 85% | 84% | 87% | 86% | 85% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|--------------------------------------|---------------------|-----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-01236 | ACIS-01236 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 214.064887 | 214.1080281336624 | Alternating exposures requested | N | N |
| Pointing Dec | 52.323922 | 52.33121474030281 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 345.029437 | 345.2039781601923 | | | |
| Roll angle | 50.756000 | 50.756000 | | | |
| Roll tolerance | 25.000000 | 25.000000 | | | |
| Roll constraint allows 180D rotation | Y | Y | | | |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -233.592463 | -233.5874344608287 | | | |
| SIM translation stage offset (mm) | 0 | -0.005018542100998502 | | | |
| Observation start time | 245799425.184000 | 245798241.5082 | | | |
| Observation start date | 2005-10-15T21:36:01 | 2005-10-15T21:17:21 | | | |
| Observation end time | 245815461.184000 | 245815699.309 | | | |
| Observation end date | 2005-10-16T02:03:17 | 2005-10-16T02:08:19 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



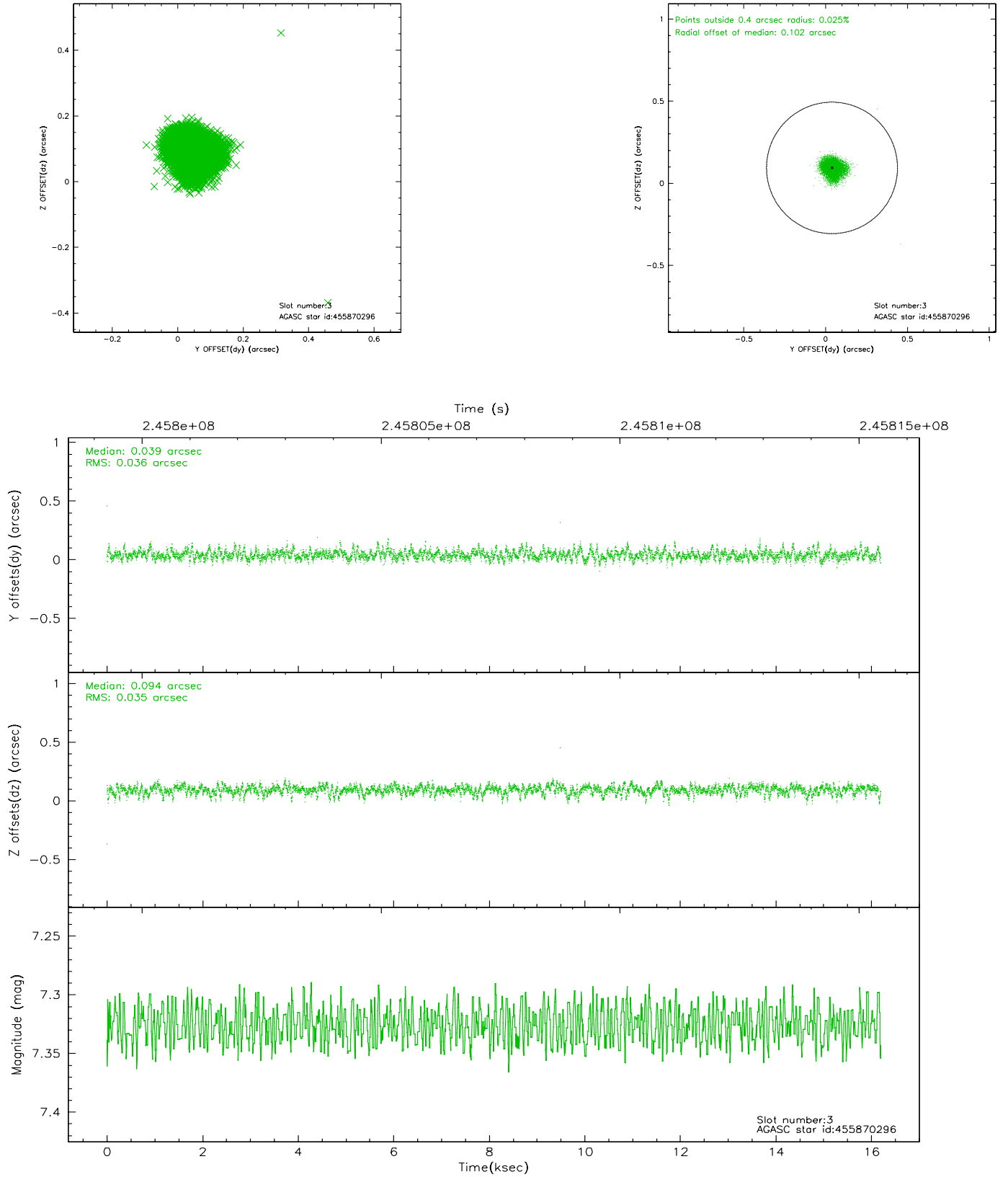


Slot Statistics

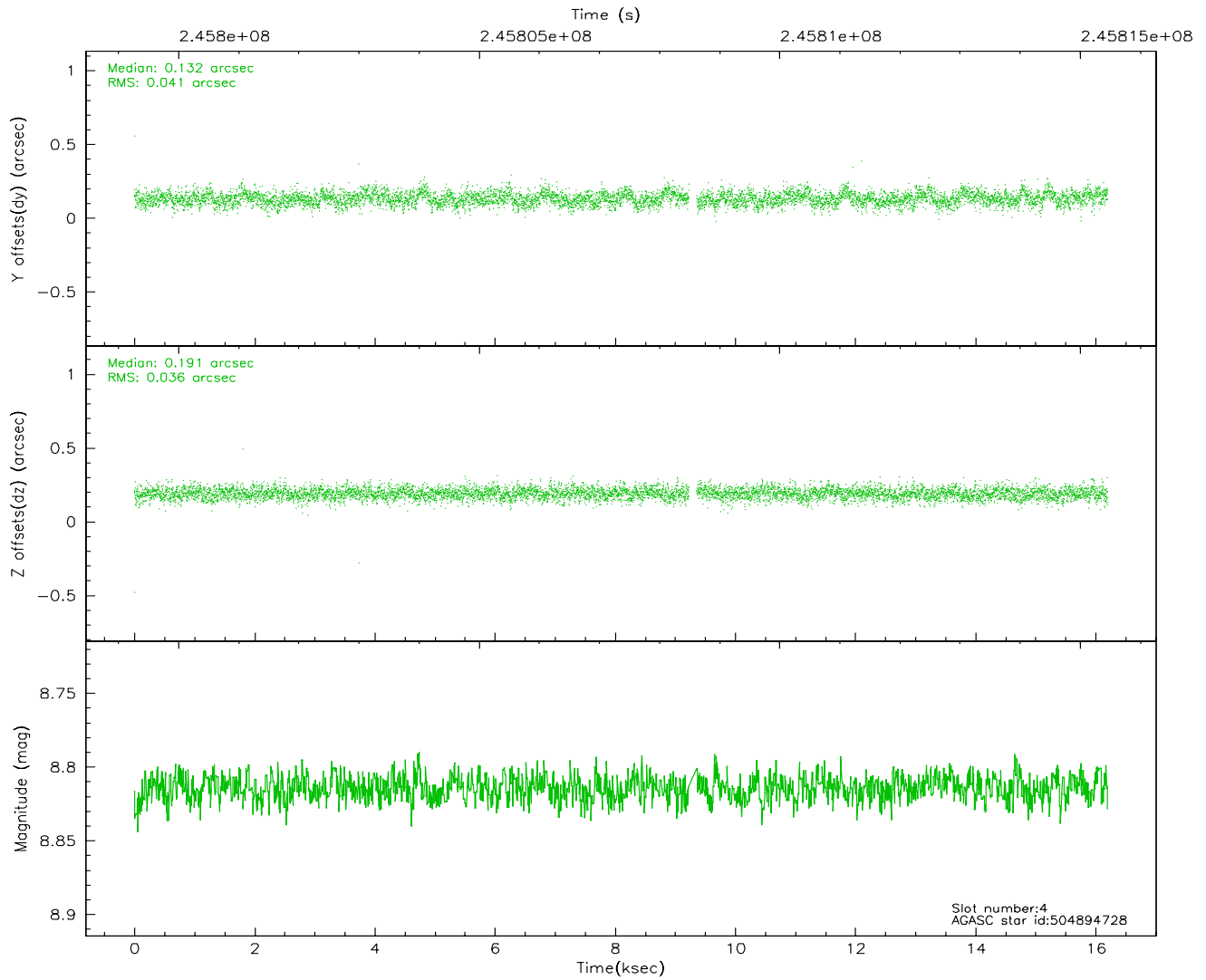
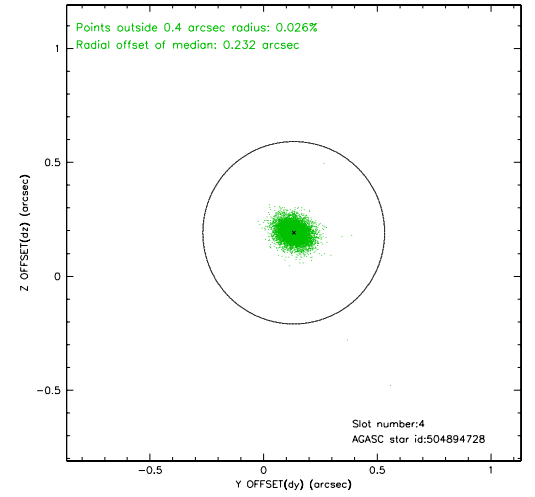
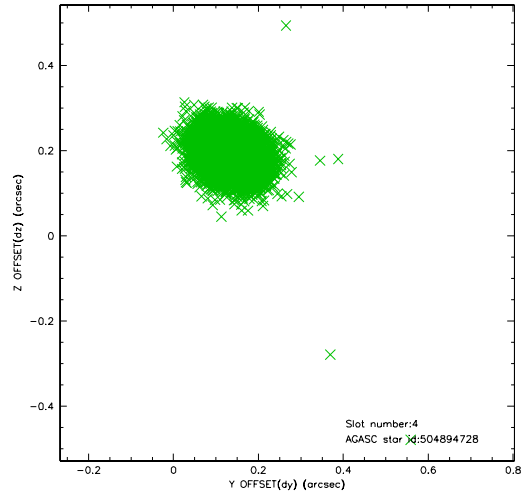
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|---------|
| 0 | FID | ACIS-I-1 | 7.24 | 3952 | 0.015 | 0.002 | 0.017 | 0.042 | 0.000000 | 0.000000 | 933.26 | -834.23 |
| 1 | FID | ACIS-I-5 | 7.23 | 3952 | -0.132 | 0.041 | 0.013 | 0.022 | 0.000000 | 0.000000 | -1814.82 | 1063.19 |
| 2 | FID | ACIS-I-6 | 7.26 | 3952 | 0.026 | 0.024 | 0.014 | 0.026 | 0.000000 | 0.000000 | 398.57 | 1707.96 |
| 3 | GUIDE | 455870296 | 7.33 | 7903 | 0.039 | 0.094 | 0.052 | 0.087 | 214.629779 | 52.033323 | 1477.91 | -682.34 |
| 4 | GUIDE | 504894728 | 8.81 | 7835 | 0.132 | 0.191 | 0.056 | 0.094 | 213.220892 | 52.722550 | -2150.83 | 921.59 |
| 5 | GUIDE | 505806936 | 7.01 | 7903 | -0.007 | -0.019 | 0.074 | 0.113 | 213.820815 | 52.535927 | -713.83 | 600.38 |
| 6 | GUIDE | 505812376 | 7.66 | 7904 | -0.201 | -0.183 | 0.046 | 0.075 | 214.039537 | 52.937930 | -624.43 | 2121.27 |
| 7 | GUIDE | 455871352 | 8.13 | 7902 | 0.030 | -0.079 | 0.055 | 0.093 | 215.099961 | 52.172669 | 2344.21 | 80.66 |

2.4 Star Slots

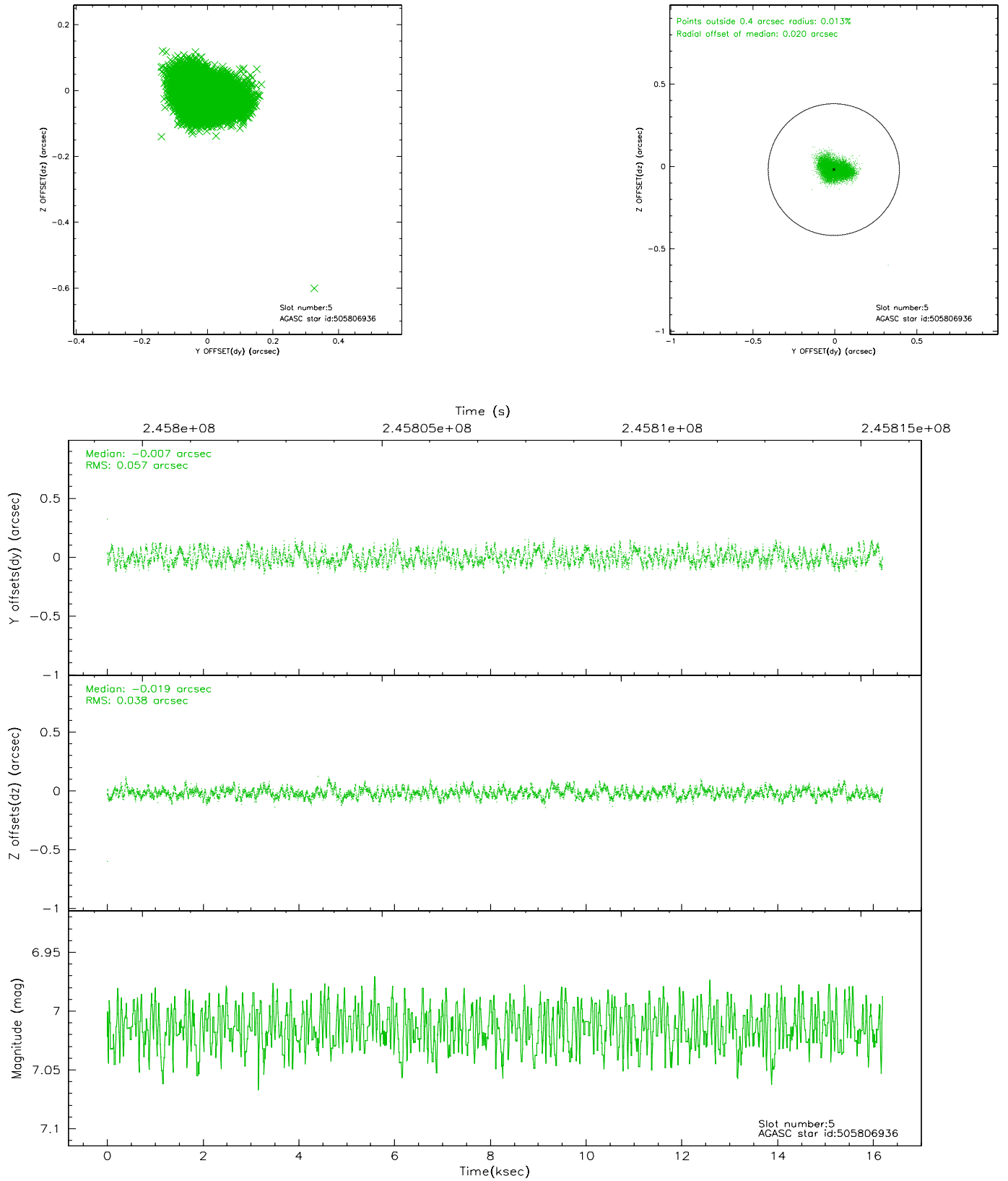
2.4.1 Slot 3



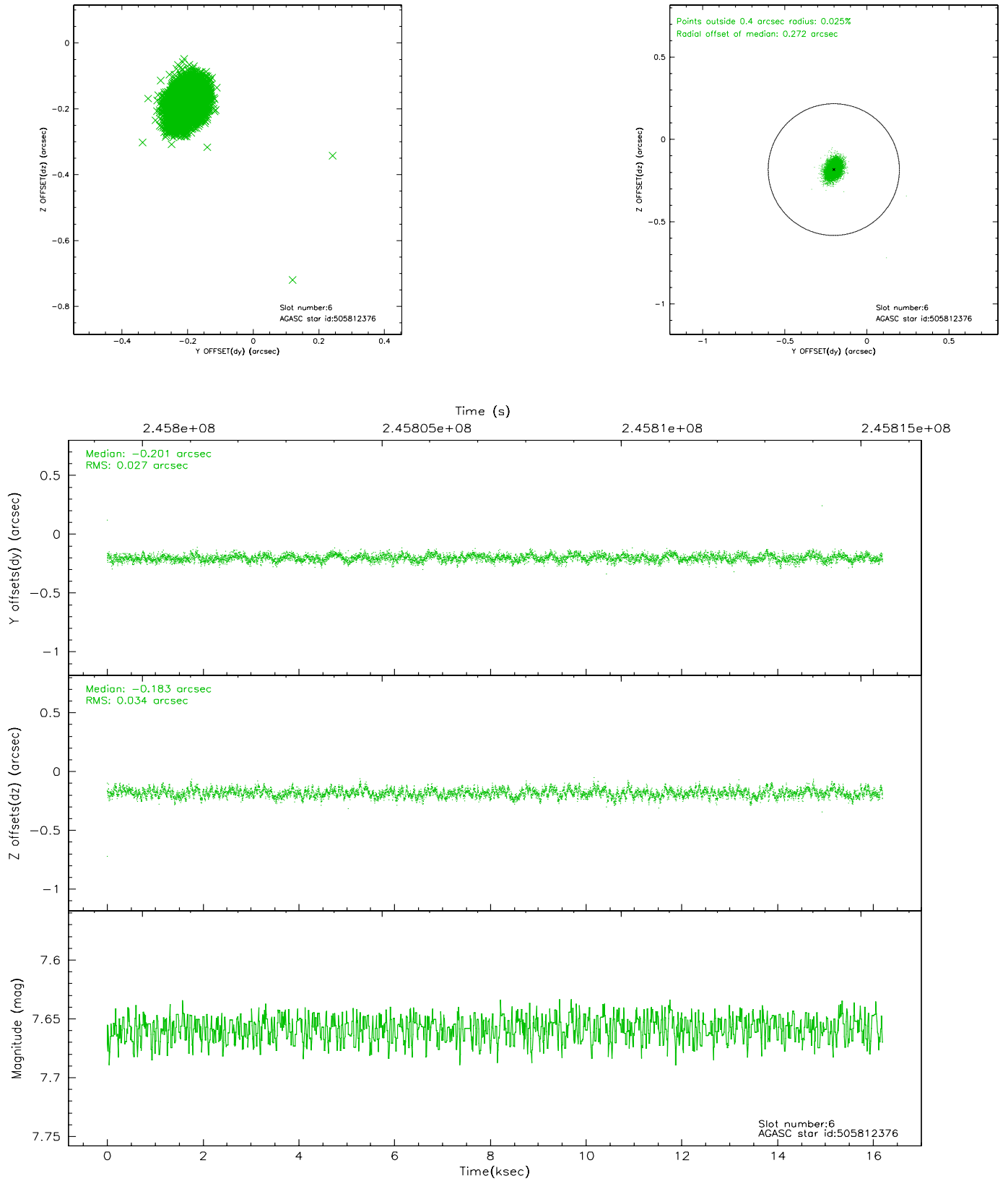
2.4.2 Slot 4



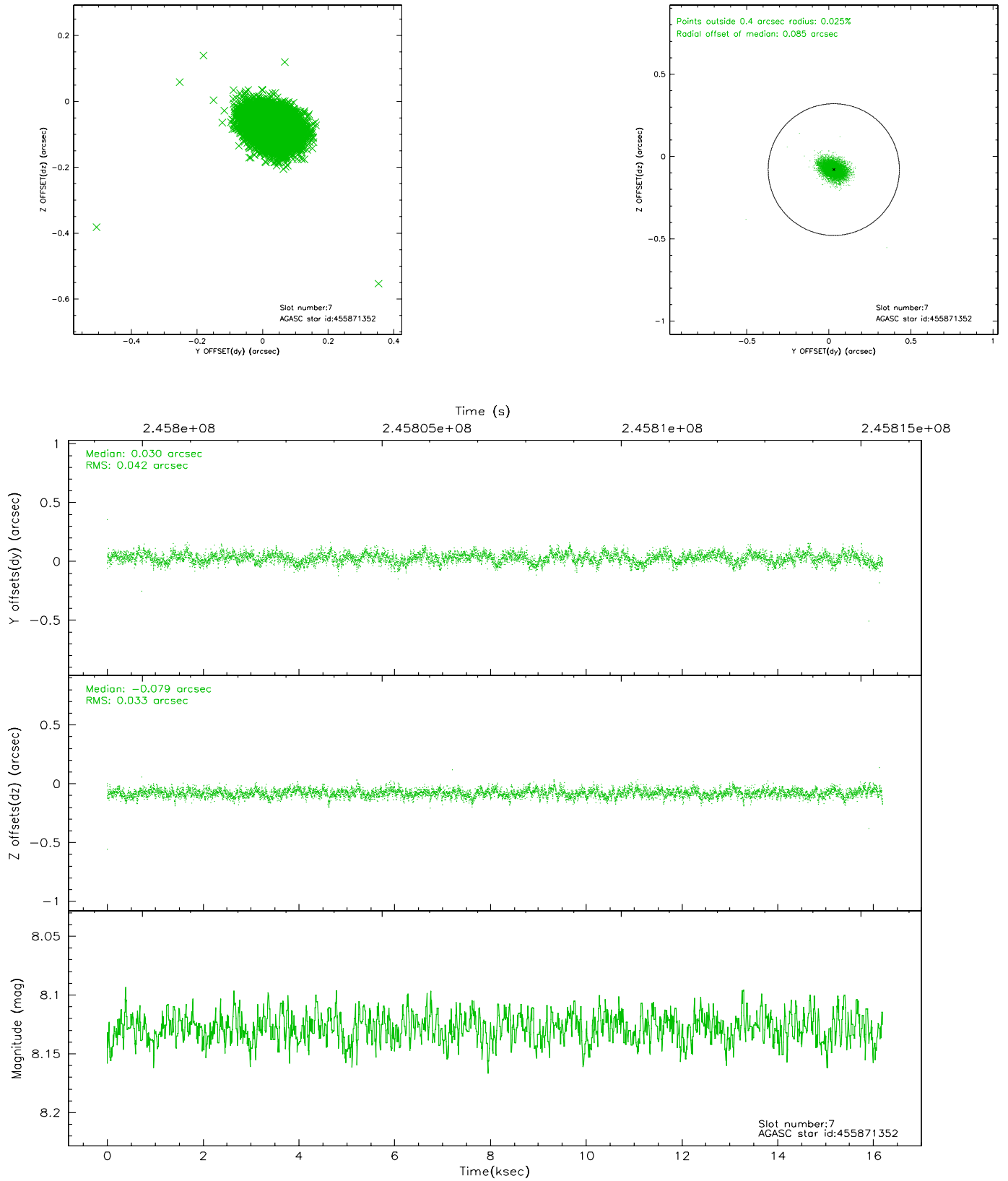
2.4.3 Slot 5



2.4.4 Slot 6

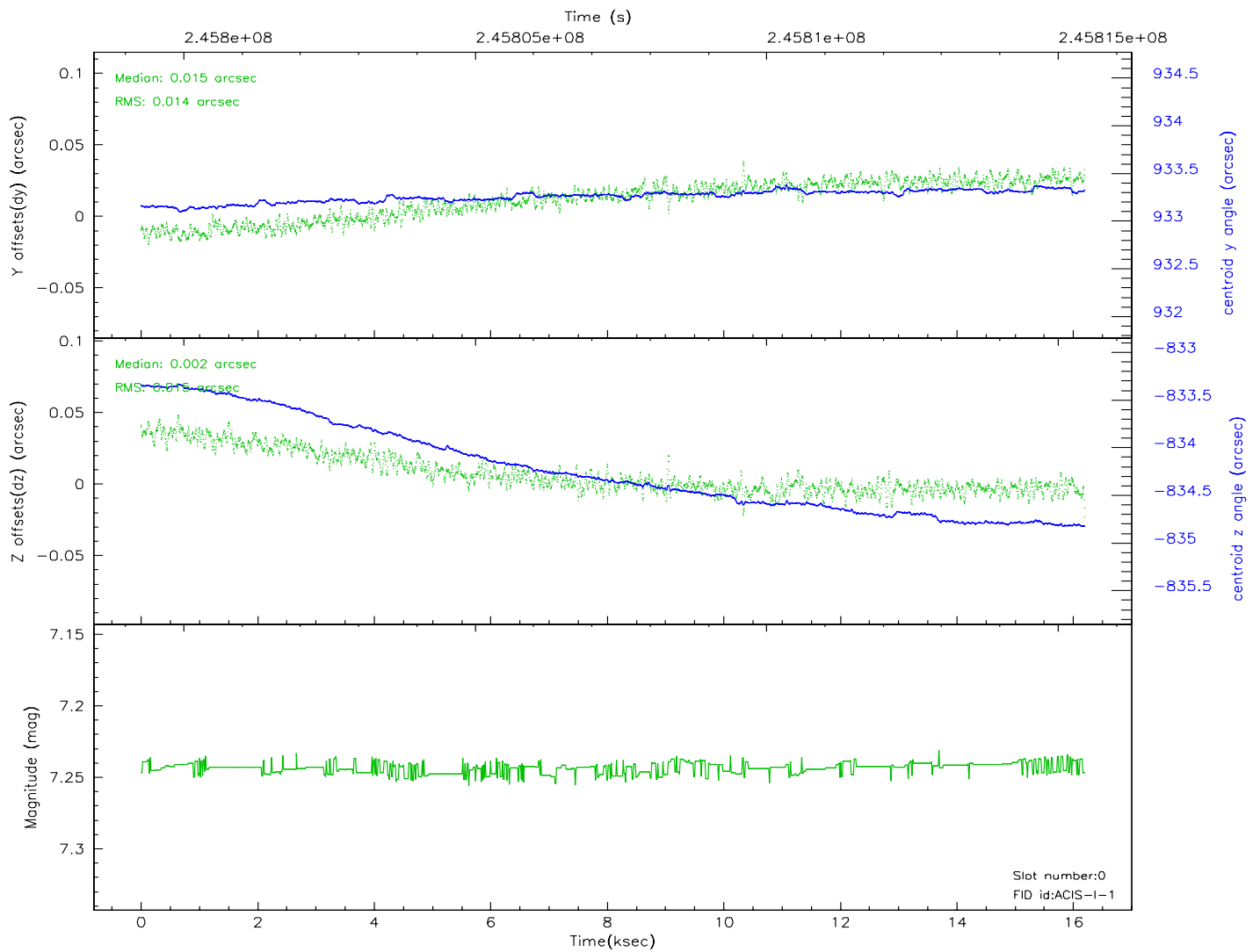
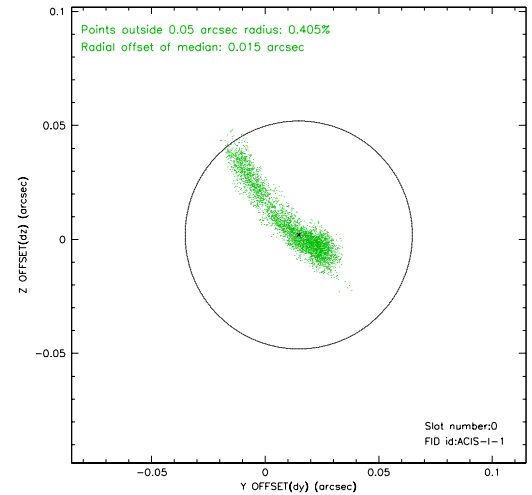
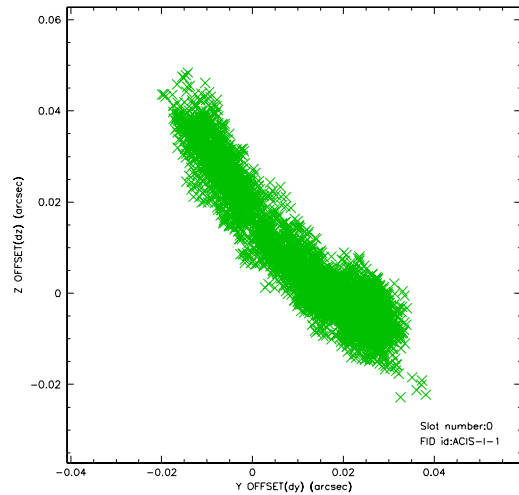


2.4.5 Slot 7

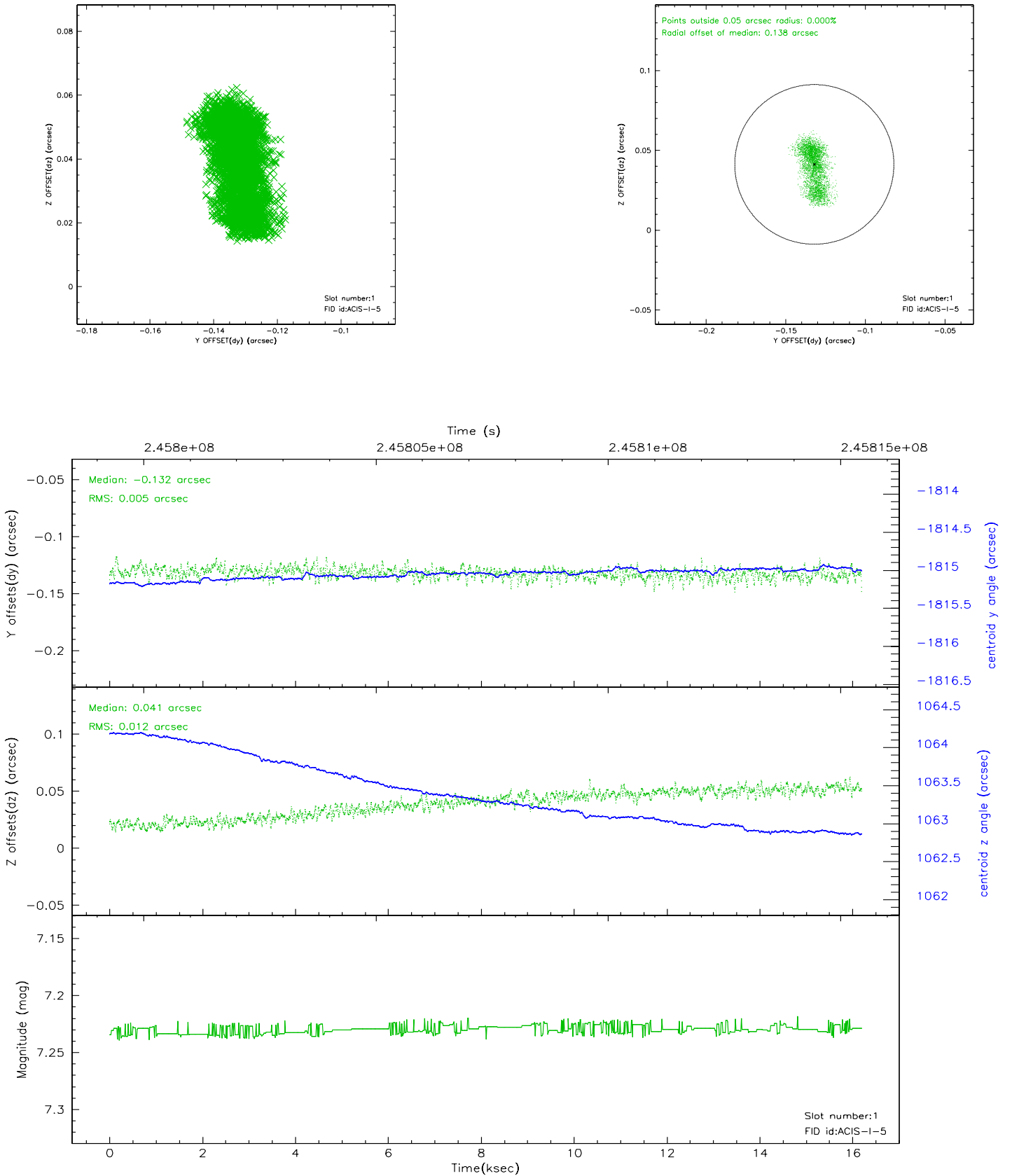


2.5 FID Slots

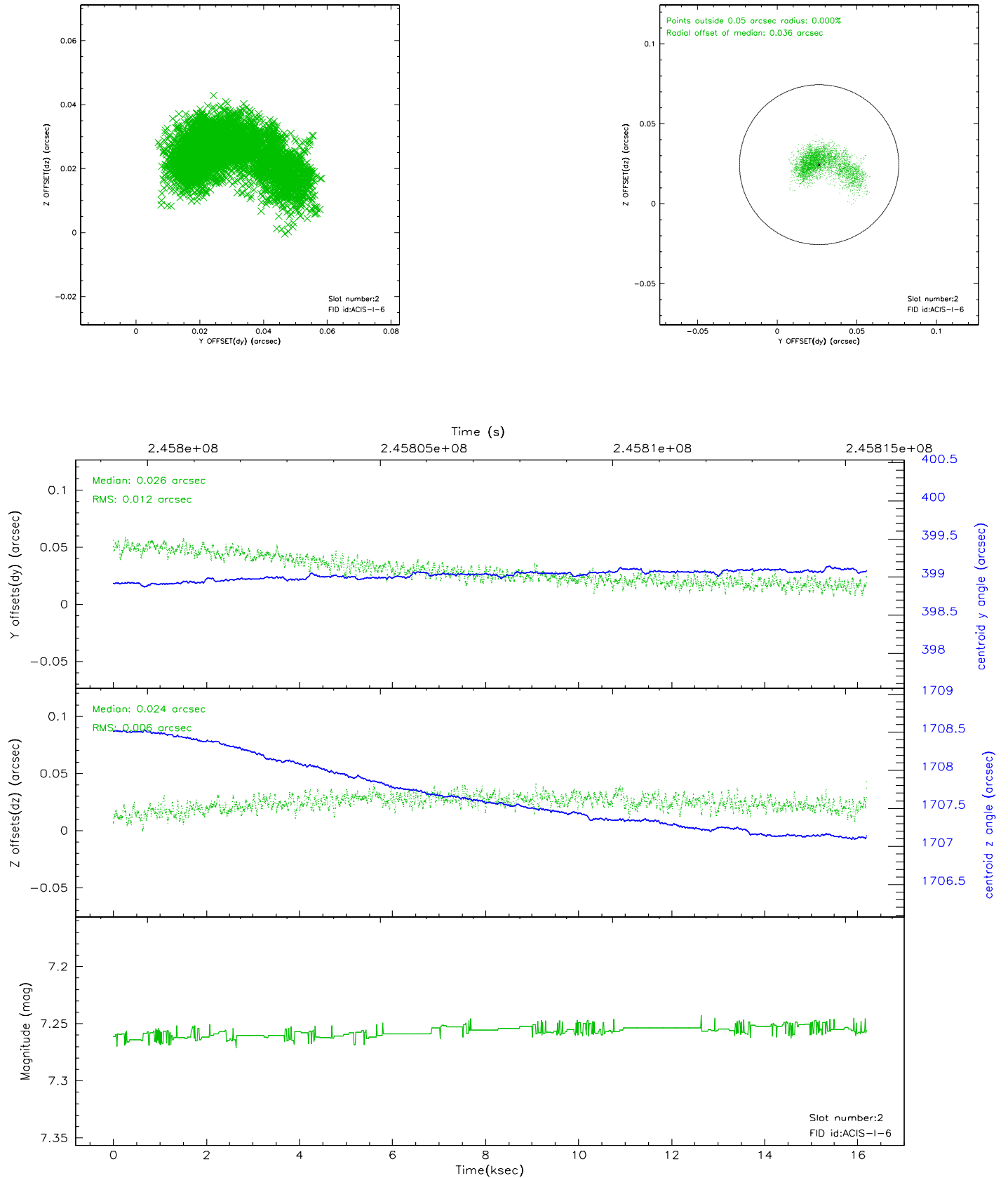
2.5.1 Slot 0



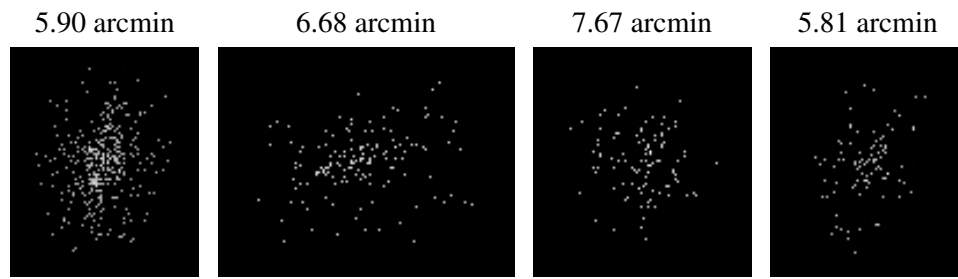
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.04.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 16.19439 |

A.2 Comments

Roll constraint met.