

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2238 - L2 Version 001
Chandra X-Ray Center

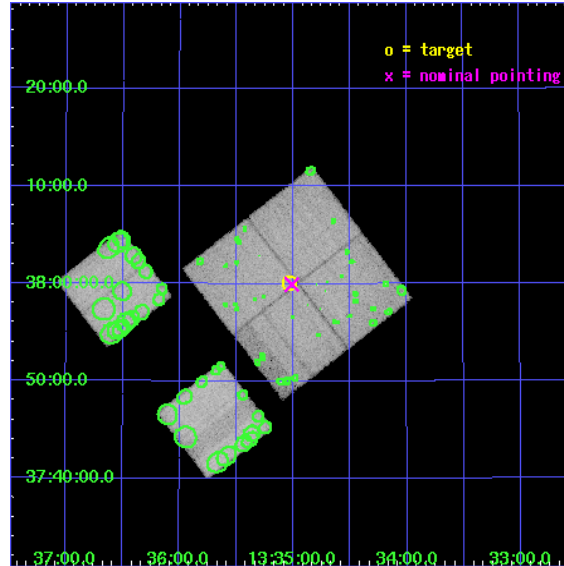
L2 Processing Date : Nov 28 2006

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1 Front

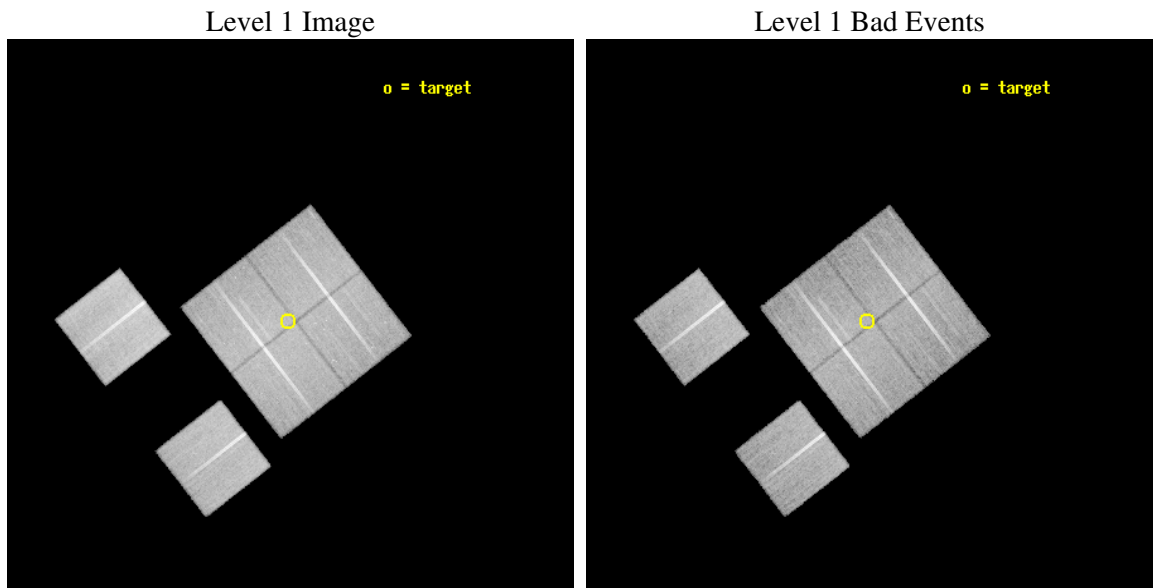
| | |
|----------|---|
| seq_num | 900065 |
| obs_id | 2238 |
| title | A COMBINED CHANDRA/XMM ATTACK ON THE ASTROPHYSICS OF THE HARD X-RAY BACKGROUND. |
| observer | Prof Ian McHardy |
| object | XMM 13HR - FIELD 3 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 203.758249 |
| dec_targ | 38.001255 |
| ra_nom | 203.75300344206 |
| dec_nom | 37.998936841989 |
| roll_nom | 232.20191856699 |
| revision | 2 |
| ontime | 28515.136723235 |
| livetime | 28154.060892292 |
| ontime0 | 28566.992057696 |
| ontime1 | 28635.053079858 |
| ontime2 | 28453.55835855 |
| ontime3 | 28515.136723235 |
| ontime6 | 28803.582853913 |
| ontime8 | 28758.209270447 |
| l2events | 320778 |



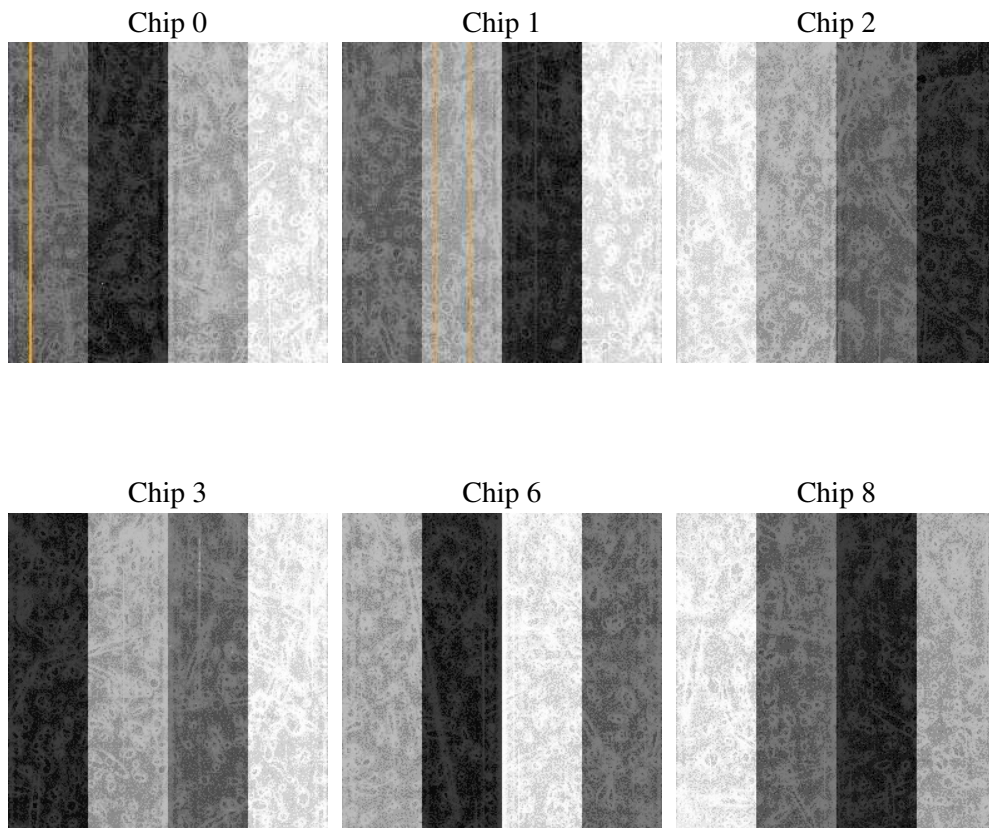
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.9 |
| caldsver | 3.2.4 |
| date | 2006-11-28T04:30:38 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 29780.021000 |
| ontime | 28520.800876036 |
| ontime0 | 28572.656210497 |
| ontime1 | 28643.958272651 |
| ontime2 | 28459.222541288 |
| ontime3 | 28520.800876036 |
| ontime6 | 28812.488076642 |
| ontime8 | 28763.873453185 |
| l1events | 1362254 |

2.1.4 Events

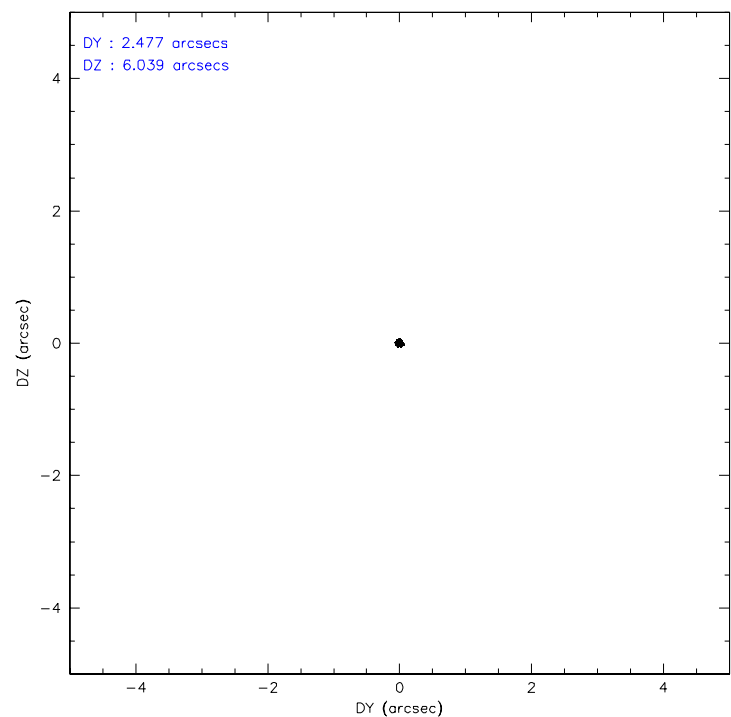
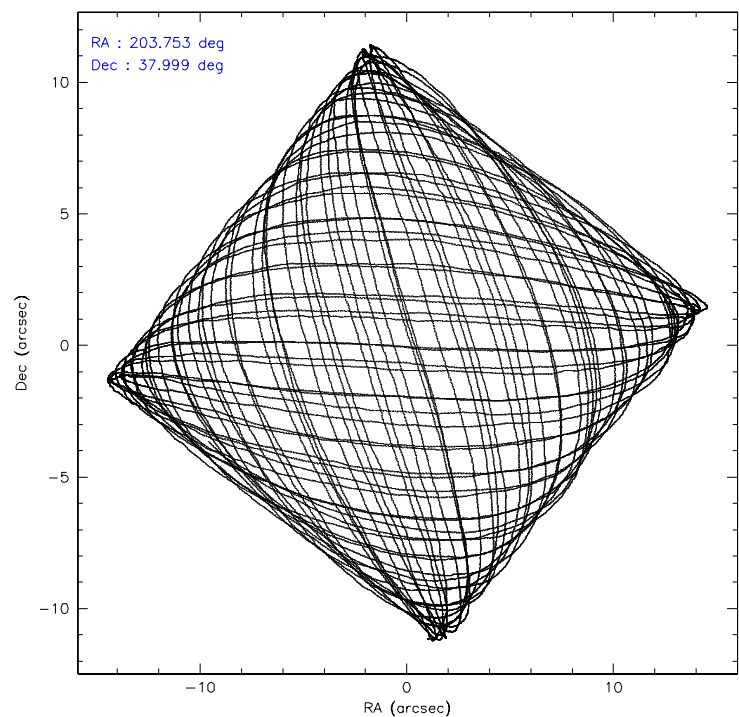
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 203083 | 203244 | 215736 | 217035 | 235569 | 287587 |
| rejected events | 147893 | 146906 | 165598 | 163141 | 166145 | 195817 |
| rejected % | 72% | 72% | 76% | 75% | 70% | 68% |

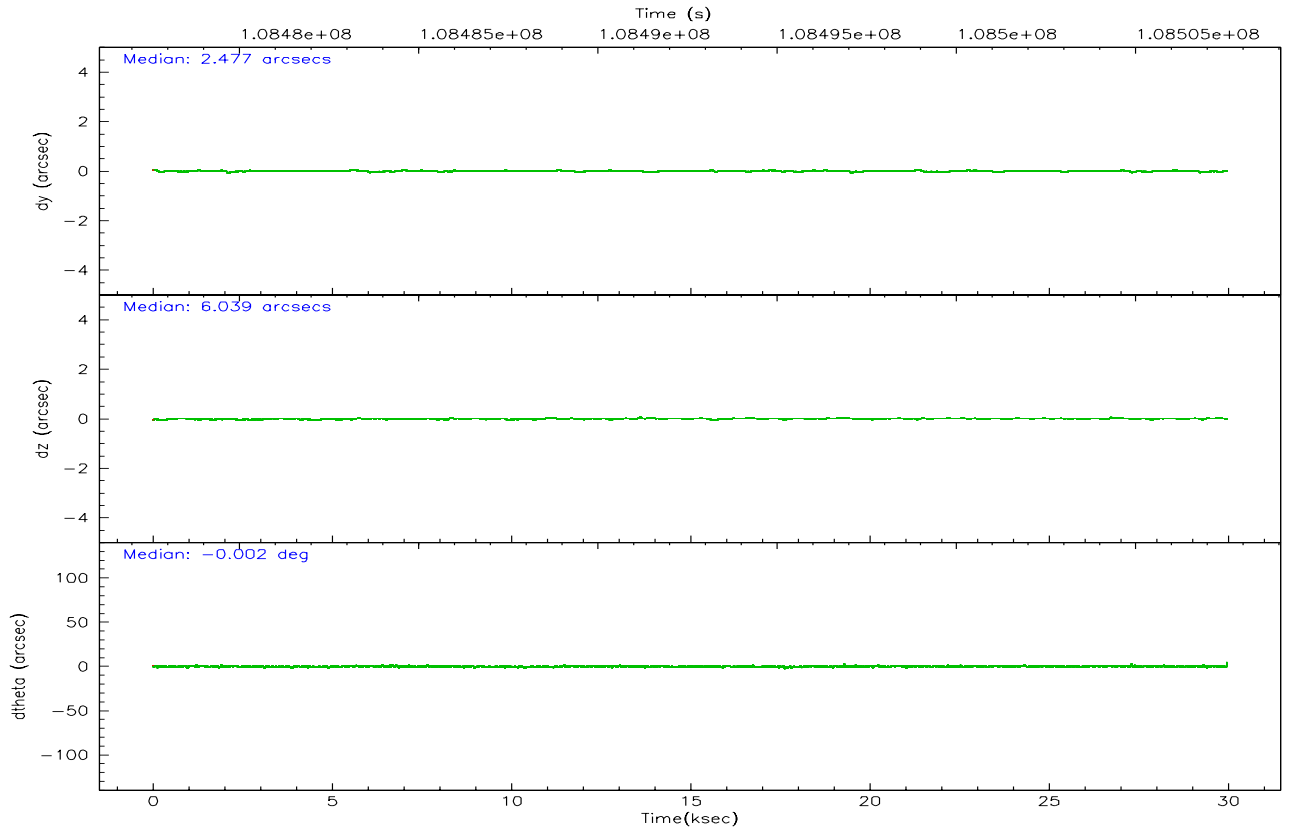
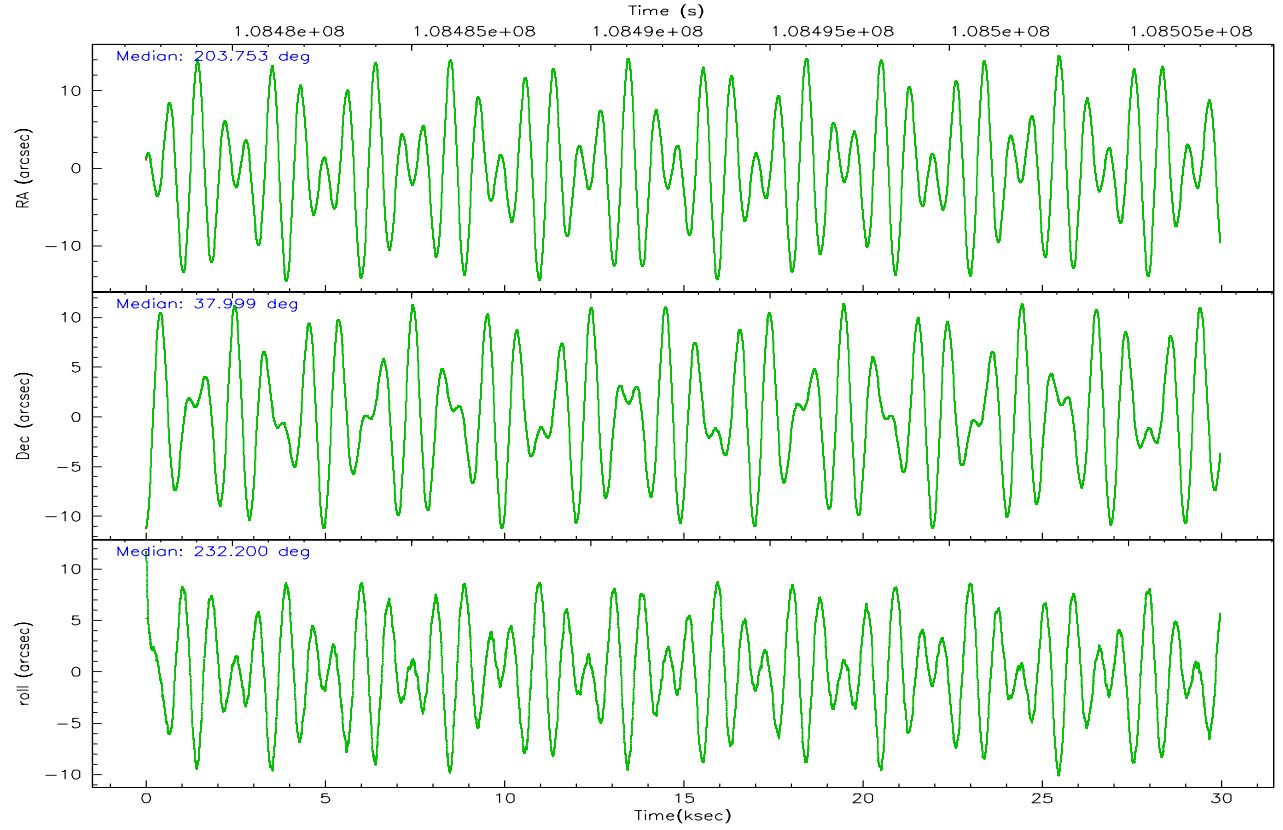
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 34454 | 34290 | 30511 | 33628 | 46787 | 49080 |
| | 16% | 16% | 14% | 15% | 19% | 17% |
| grade 1 events | 201 | 191 | 187 | 185 | 233 | 281 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 8767 | 8796 | 8341 | 8425 | 9595 | 15436 |
| | 4% | 4% | 3% | 3% | 4% | 5% |
| grade 3 events | 3141 | 3436 | 2907 | 3065 | 3237 | 6376 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 4 events | 2975 | 3406 | 2886 | 3084 | 3159 | 6149 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 5 events | 6505 | 7093 | 6269 | 7028 | 7762 | 10255 |
| | 3% | 3% | 2% | 3% | 3% | 3% |
| grade 6 events | 5878 | 6477 | 5517 | 5721 | 6721 | 14765 |
| | 2% | 3% | 2% | 2% | 2% | 5% |
| grade 7 events | 141162 | 139555 | 159118 | 155899 | 158075 | 185245 |
| | 69% | 68% | 73% | 71% | 67% | 64% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-012368 | ACIS-012368 | 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 |
| Pointing RA | 203.757692 | 203.753003442065 | Subarray requested | NONE | NONE |
| Pointing Dec | 38.026138 | 37.99893684198894 | Alternating exposures requested | N | N |
| Pointing Roll | 231.990339 | 232.2019185669878 | Primary exposure time | 0.000000 | 3.2 |
| 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 | 108477780.184000 | 108477404.0593 | | | |
| Observation start date | 2001-06-09T12:41:56 | 2001-06-09T12:36:44 | | | |
| Observation end time | 108507560.184000 | 108507874.23549 | | | |
| Observation end date | 2001-06-09T20:58:16 | 2001-06-09T21:04:34 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



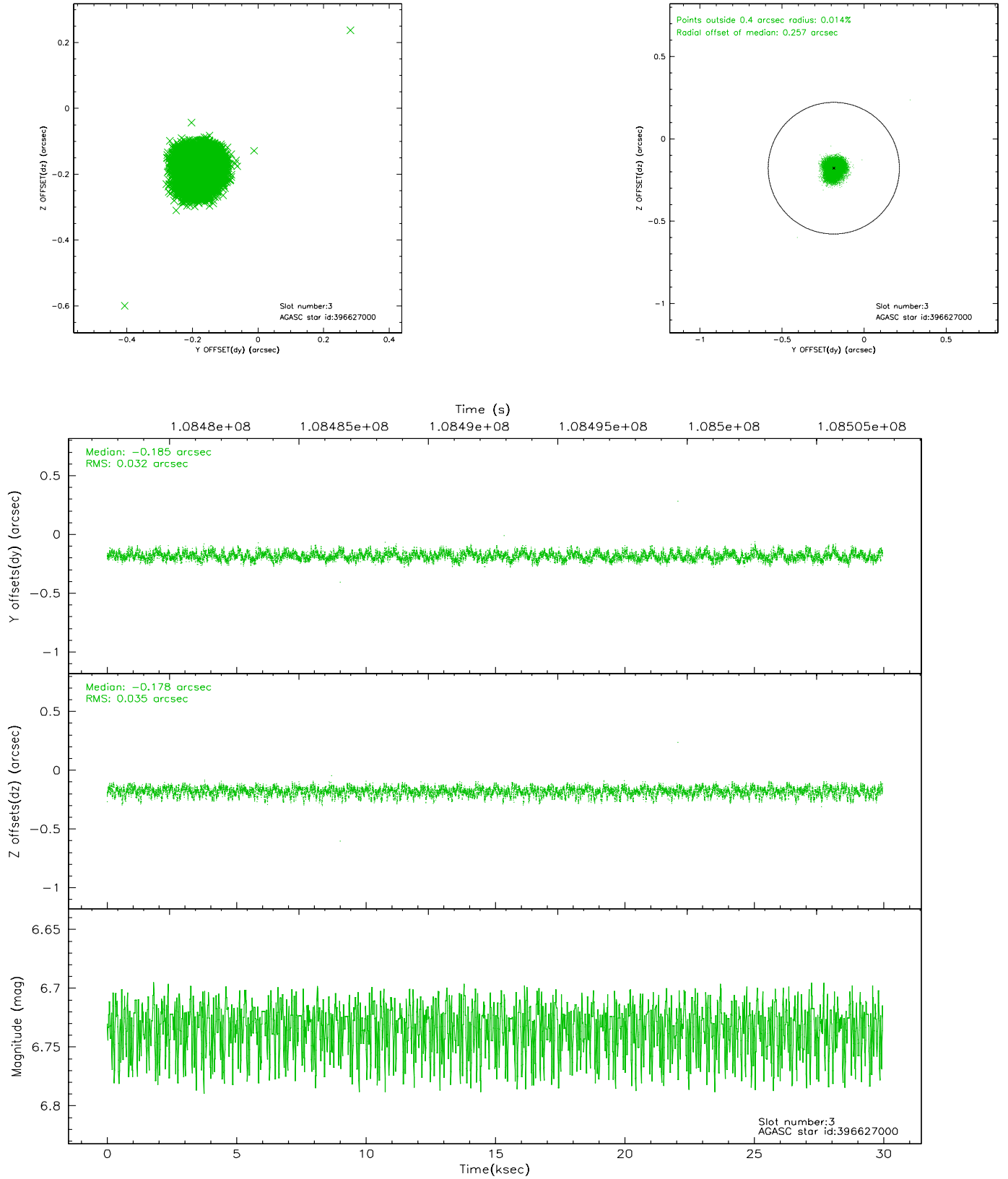


Slot Statistics

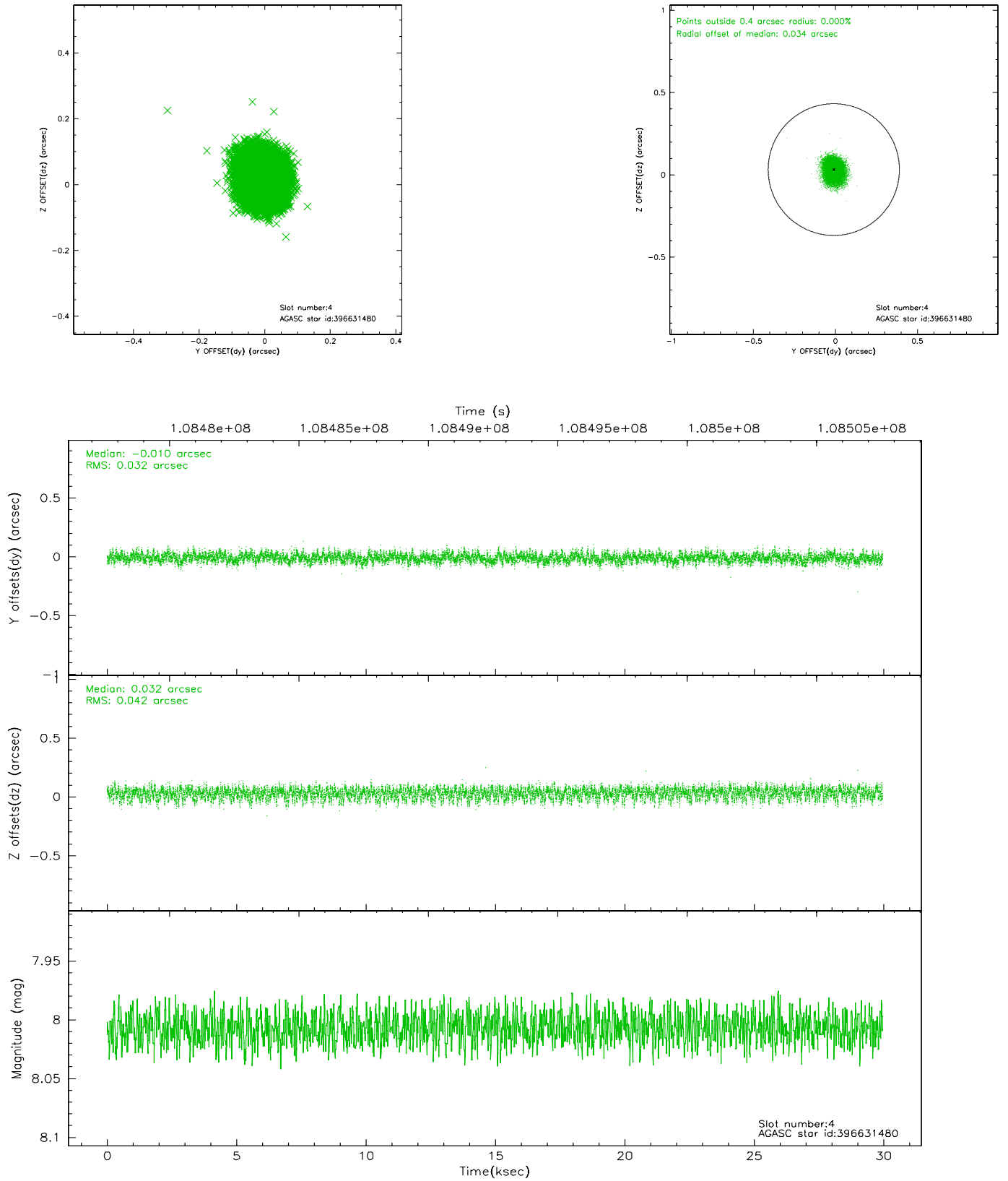
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-2 | 7.15 | 7307 | -0.022 | -0.027 | 0.009 | 0.016 | 0.000000 | 0.000000 | -756.86 | -835.80 |
| 1 | FID | ACIS-I-4 | 7.18 | 7310 | -0.057 | 0.029 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2157.12 | 1070.40 |
| 2 | FID | ACIS-I-5 | 7.23 | 7309 | -0.021 | 0.067 | 0.009 | 0.015 | 0.000000 | 0.000000 | -1810.60 | 1068.36 |
| 3 | GUIDE | 396627000 | 6.73 | 14619 | -0.185 | -0.178 | 0.051 | 0.081 | 203.591112 | 38.789264 | -1876.42 | -2061.10 |
| 4 | GUIDE | 396631480 | 8.01 | 14619 | -0.010 | 0.032 | 0.056 | 0.091 | 203.891262 | 37.702710 | 683.62 | 1015.98 |
| 5 | GUIDE | 333192752 | 8.44 | 14618 | 0.024 | 0.136 | 0.052 | 0.083 | 203.839277 | 37.405848 | 1616.62 | 1558.63 |
| 6 | GUIDE | 396628240 | 9.35 | 14611 | 0.034 | 0.075 | 0.079 | 0.127 | 203.780849 | 38.306087 | -833.32 | -569.43 |
| 7 | GUIDE | 396631416 | 9.63 | 14609 | 0.136 | -0.058 | 0.087 | 0.139 | 203.523145 | 37.637364 | 1514.98 | 334.05 |

2.4 Star Slots

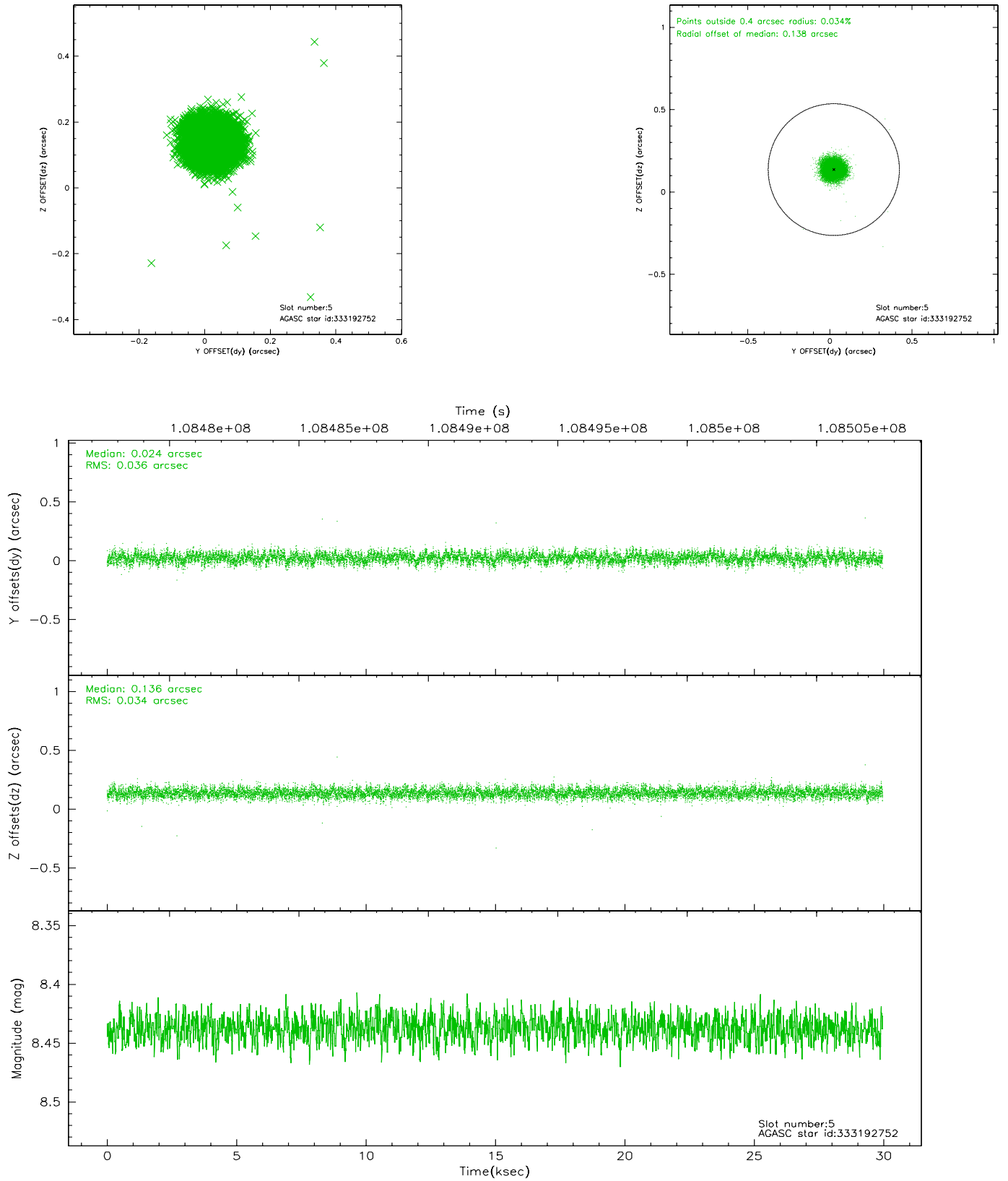
2.4.1 Slot 3



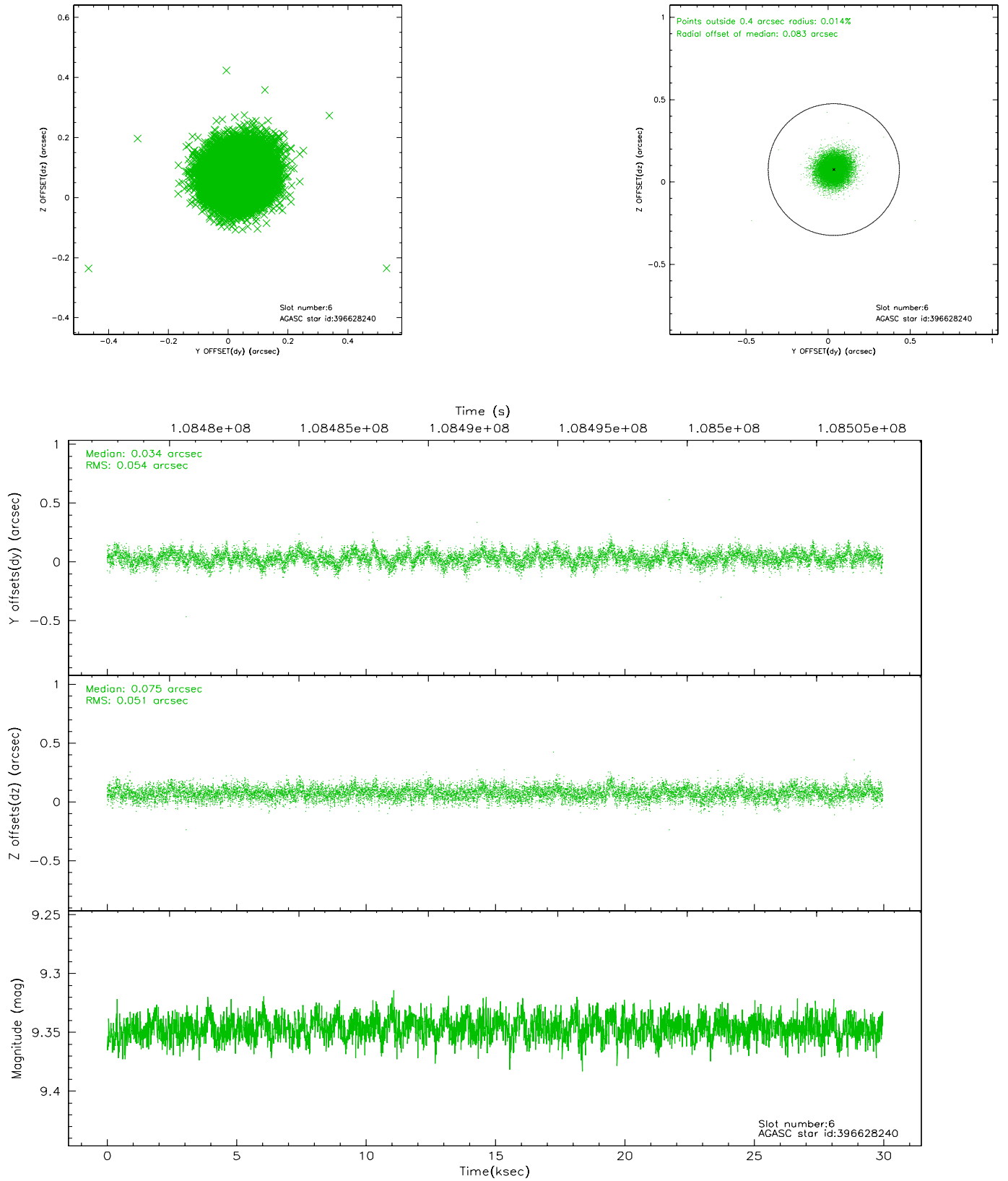
2.4.2 Slot 4



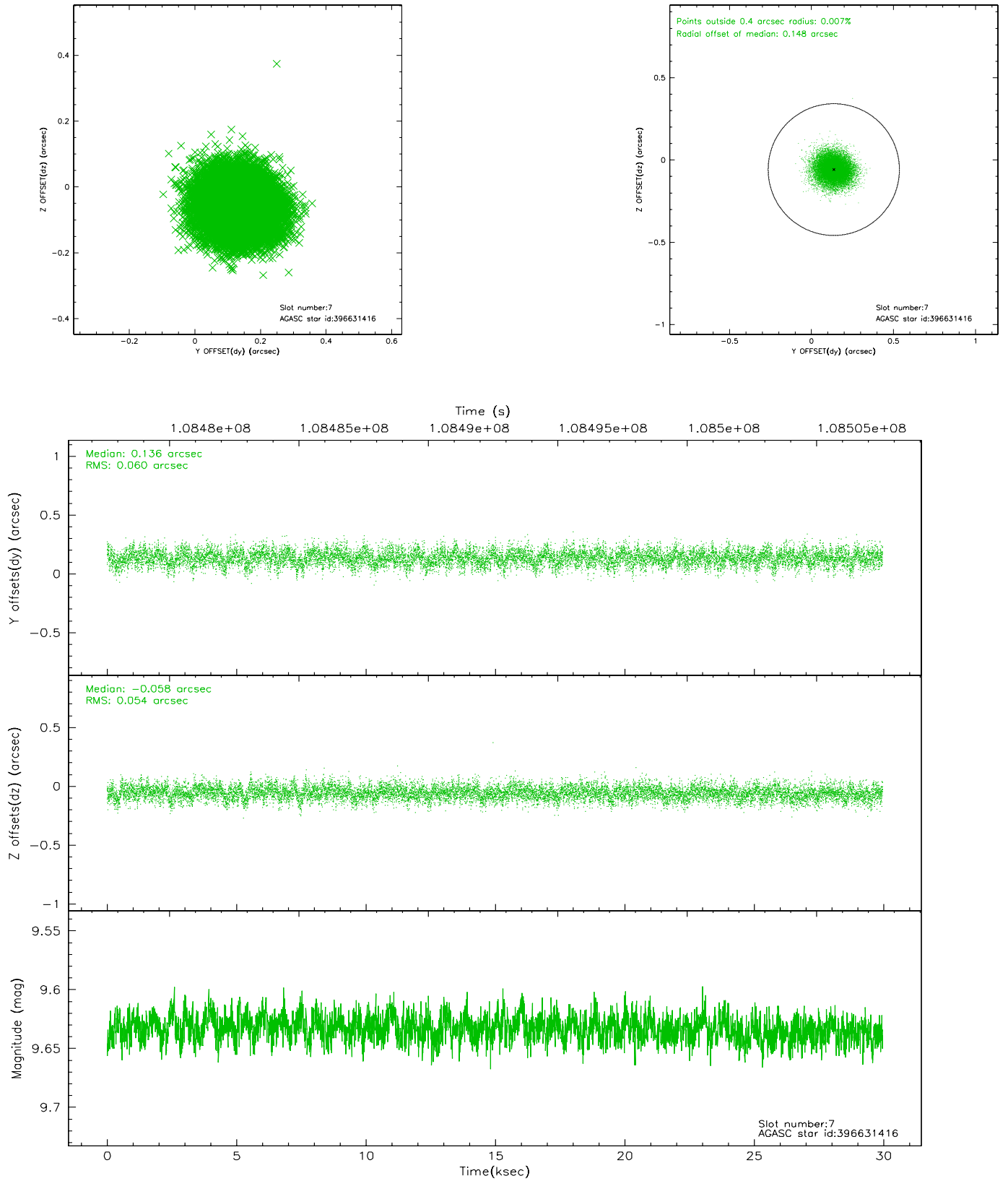
2.4.3 Slot 5



2.4.4 Slot 6

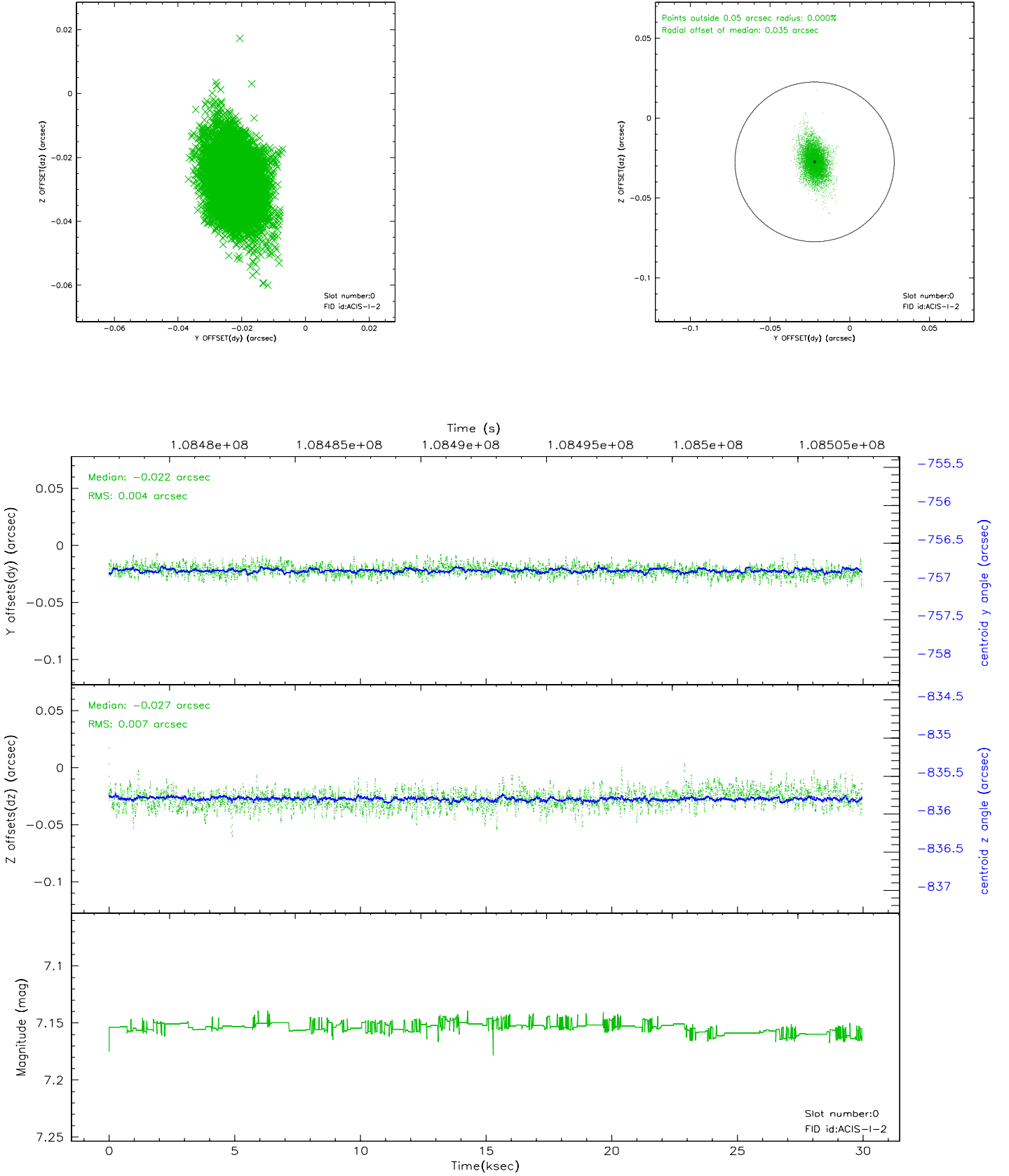


2.4.5 Slot 7

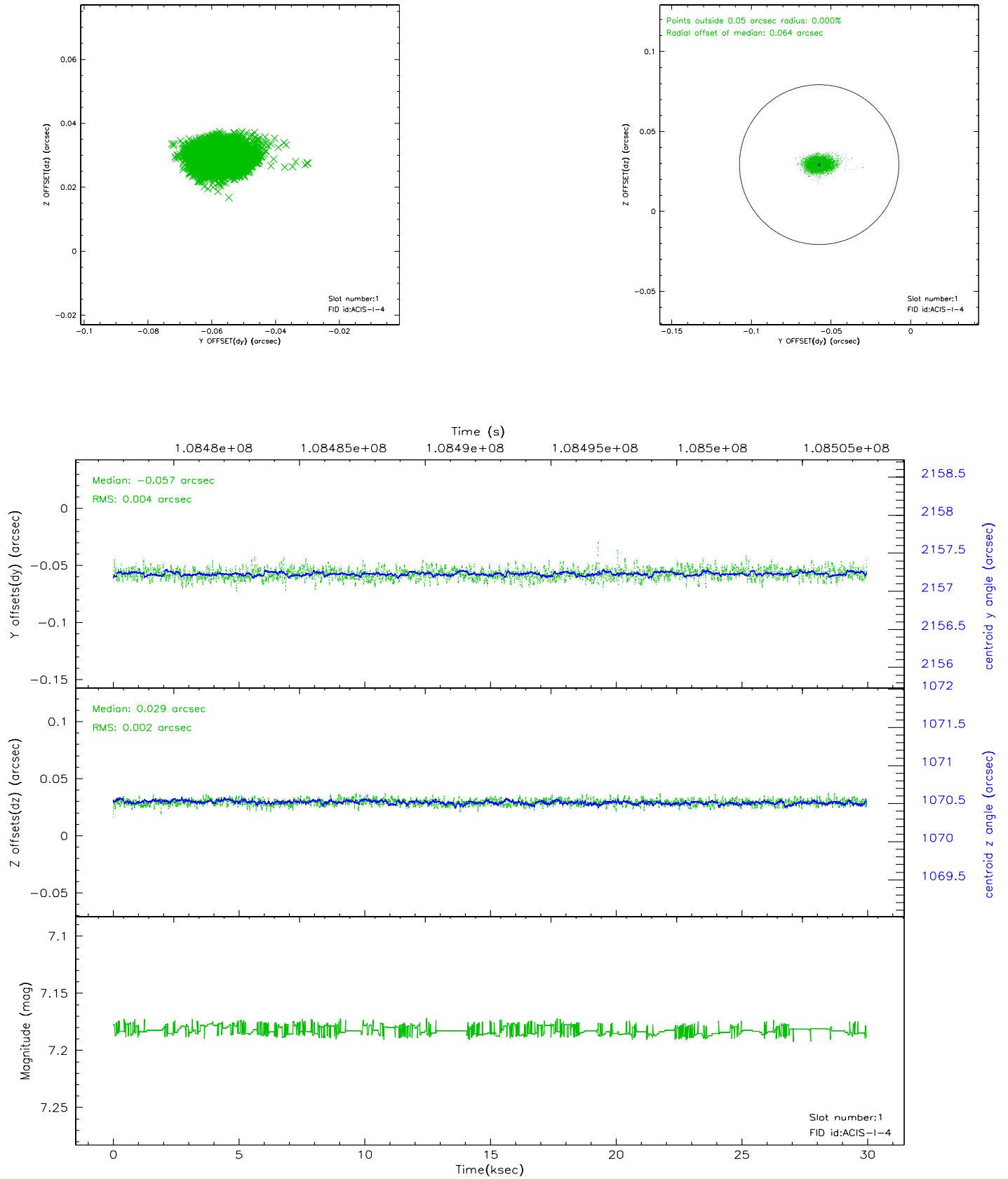


2.5 FID Slots

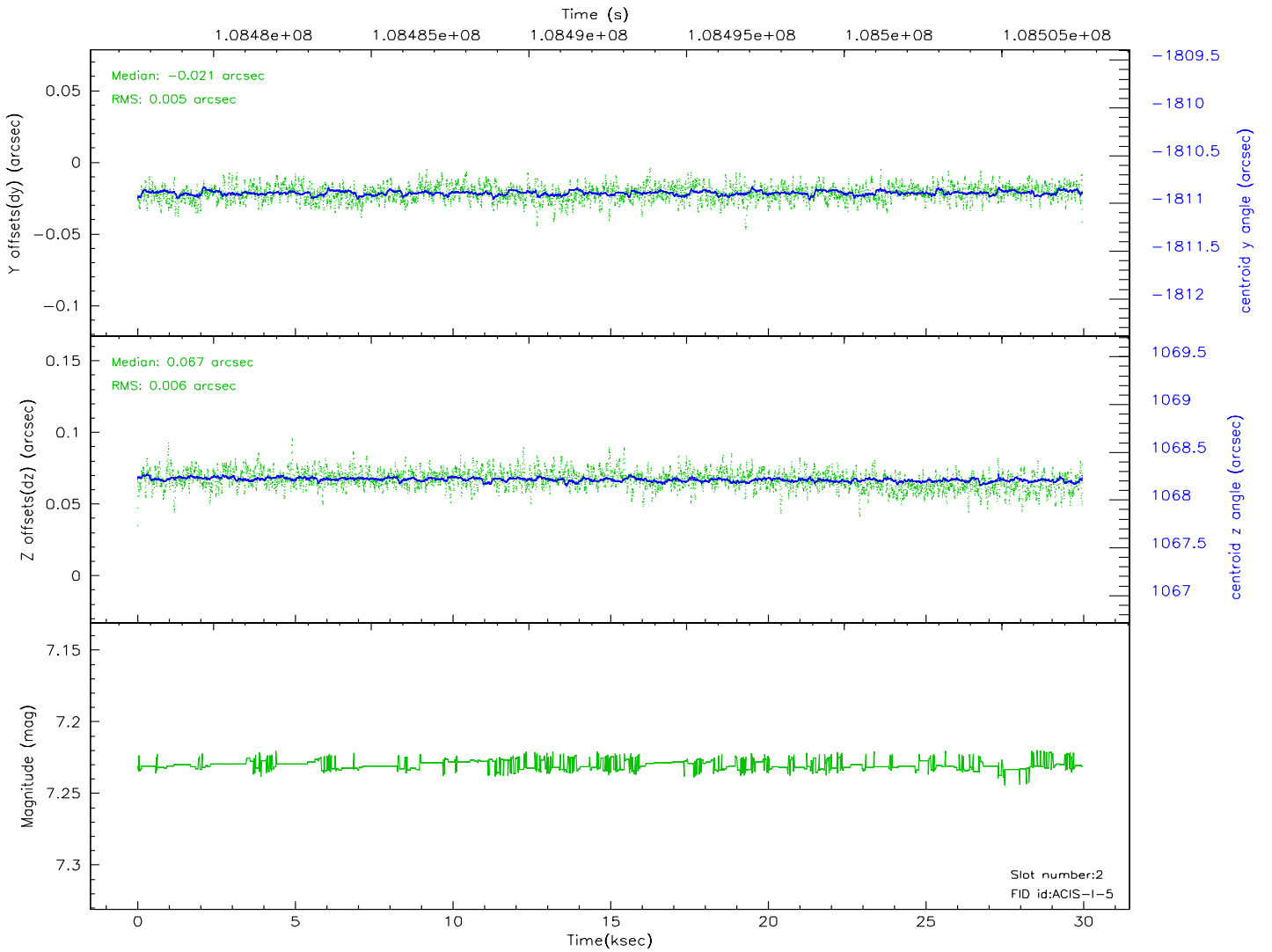
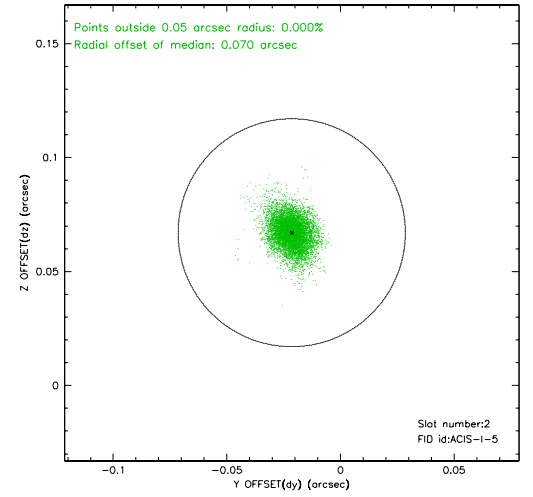
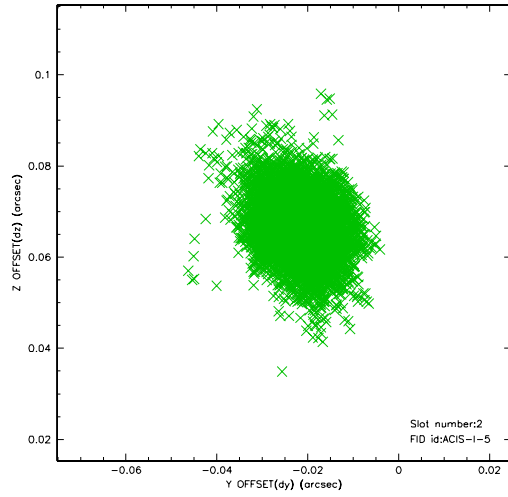
2.5.1 Slot 0



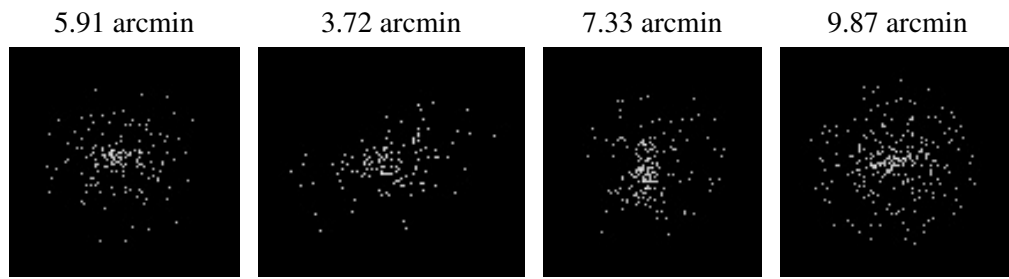
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.11.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 28.8 |

A.2 Comments