

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5155 - L2 Version 001
Chandra X-Ray Center

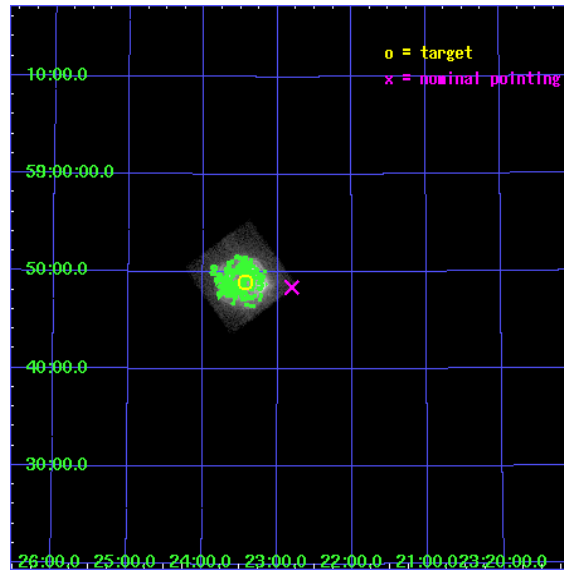
L2 Processing Date : Apr 13 2006

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1 Front

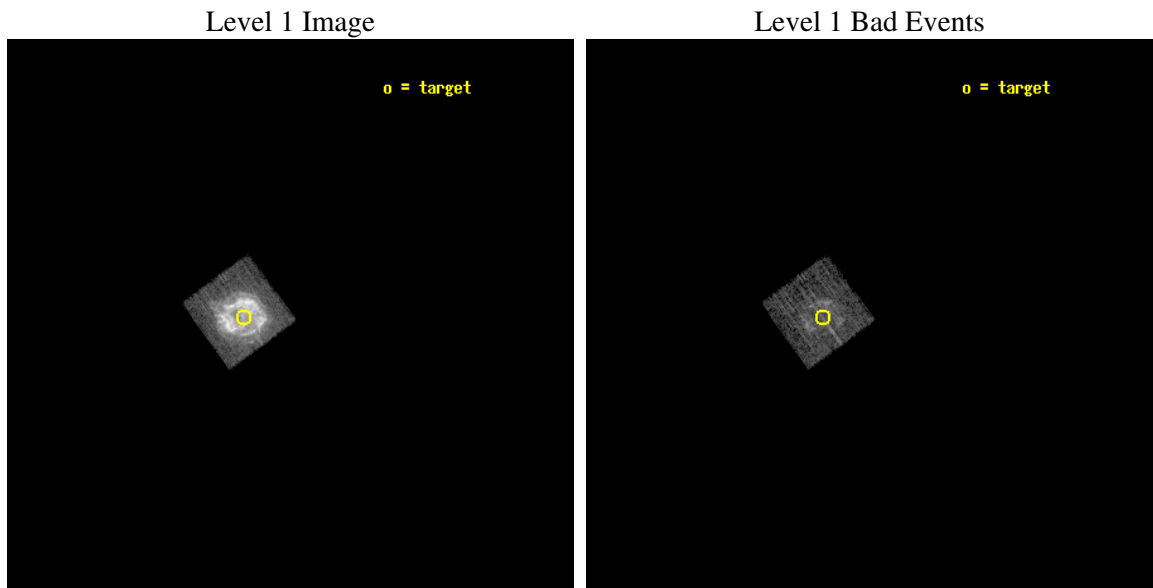
| | |
|----------|--|
| seq_num | 590353 |
| obs_id | 5155 |
| title | AO5B Observations of the Standard Candles Cas A and G21.5-09 |
| observer | Dr. CXC Calibration |
| object | Cas A[I3,-120,-3.0,3.5,0] |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 350.8575 |
| dec_targ | 58.814833 |
| ra_nom | 350.70184780646 |
| dec_nom | 58.806940439078 |
| roll_nom | 233.83518532935 |
| revision | 2 |
| ontime | 1592.5413612425 |
| livetime | 1572.3756436132 |
| ontime0 | 2182.3999918699 |
| ontime1 | 2182.3999918699 |
| ontime2 | 2182.3999918699 |
| ontime3 | 1592.5413612425 |
| ontime6 | 2182.3999918699 |
| ontime7 | 2182.3999918699 |
| l2events | 332699 |



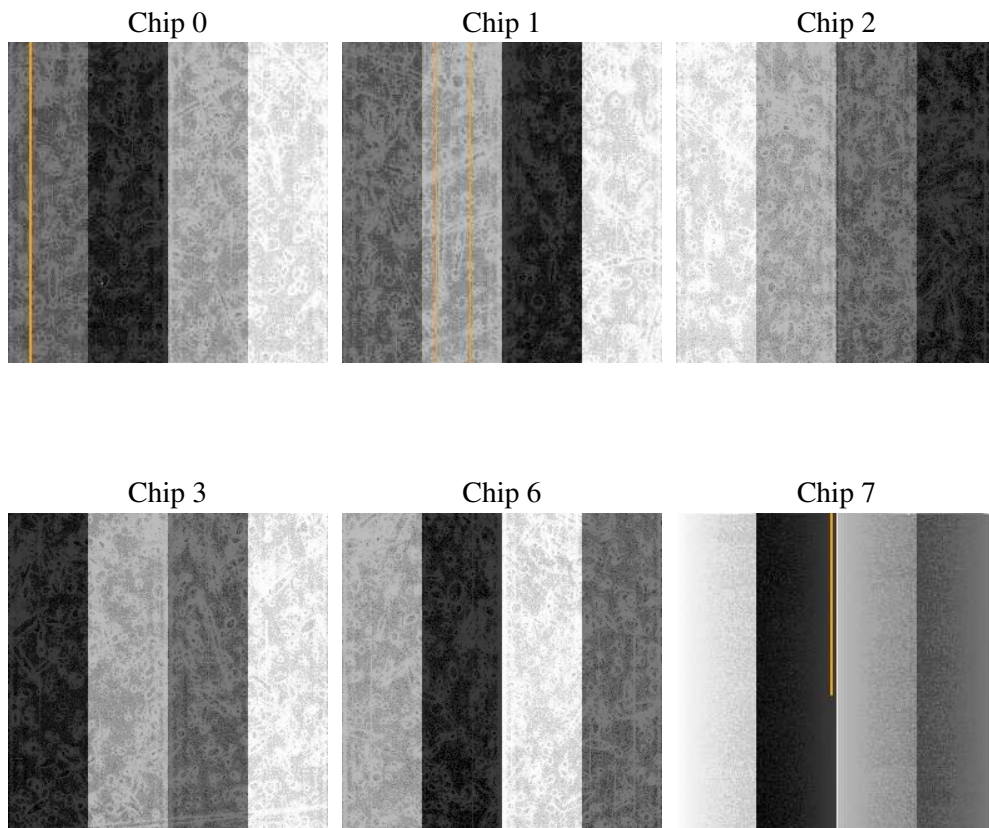
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.1 |
| caldsver | 3.2.1 |
| date | 2006-04-13T11:10:13 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 2000.000000 |
| ontime | 1630.2325488031 |
| ontime0 | 2220.0911794305 |
| ontime1 | 2220.0911794305 |
| ontime2 | 2220.0911794305 |
| ontime3 | 1630.2325488031 |
| ontime6 | 2220.0911794305 |
| ontime7 | 2220.0911794305 |
| l1events | 418759 |

2.1.4 Events

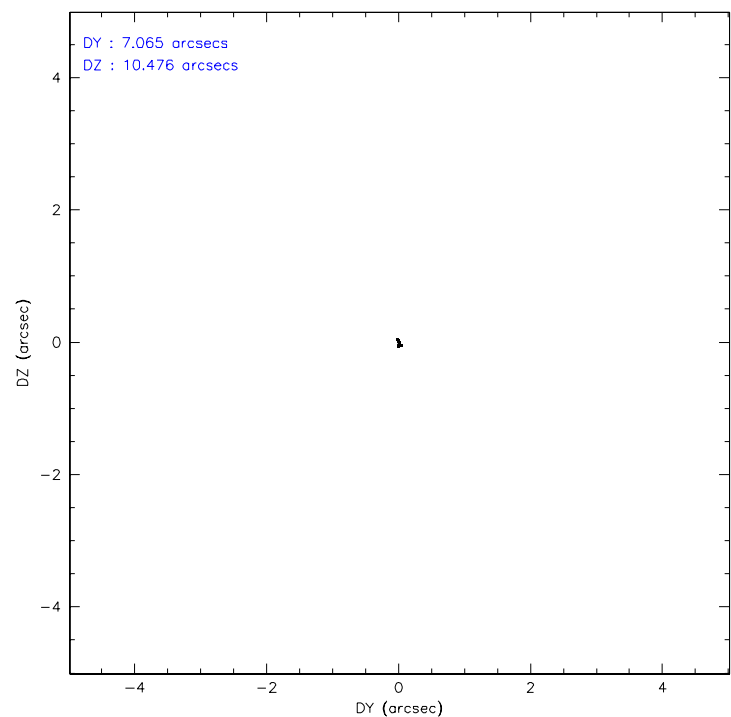
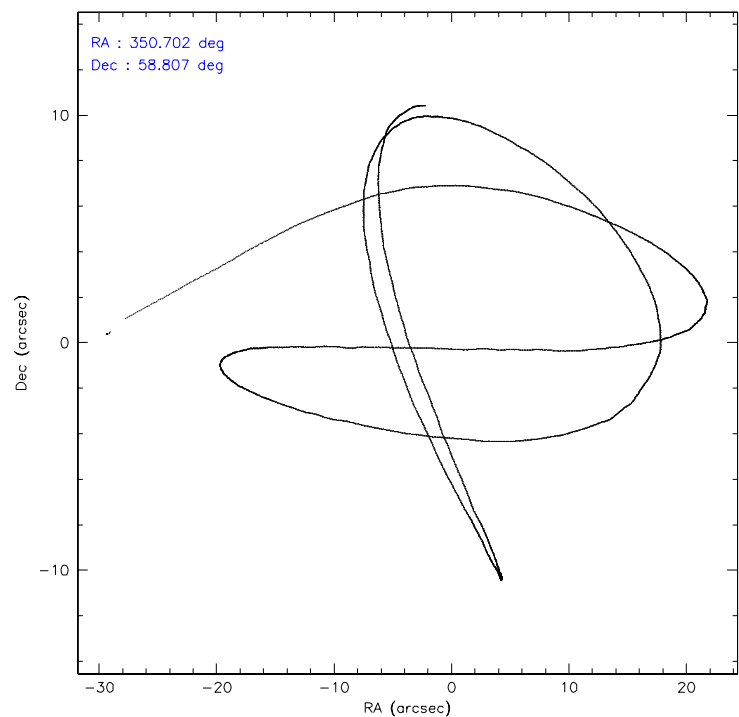
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|--------------------|----------|----------|----------|--------|----------|----------|
| level 1 events | 0 | 0 | 0 | 418759 | 0 | 0 |
| rejected events | 0 | 0 | 0 | 76091 | 0 | 0 |
| rejected % | 0% | 0% | 0% | 18% | 0% | 0% |

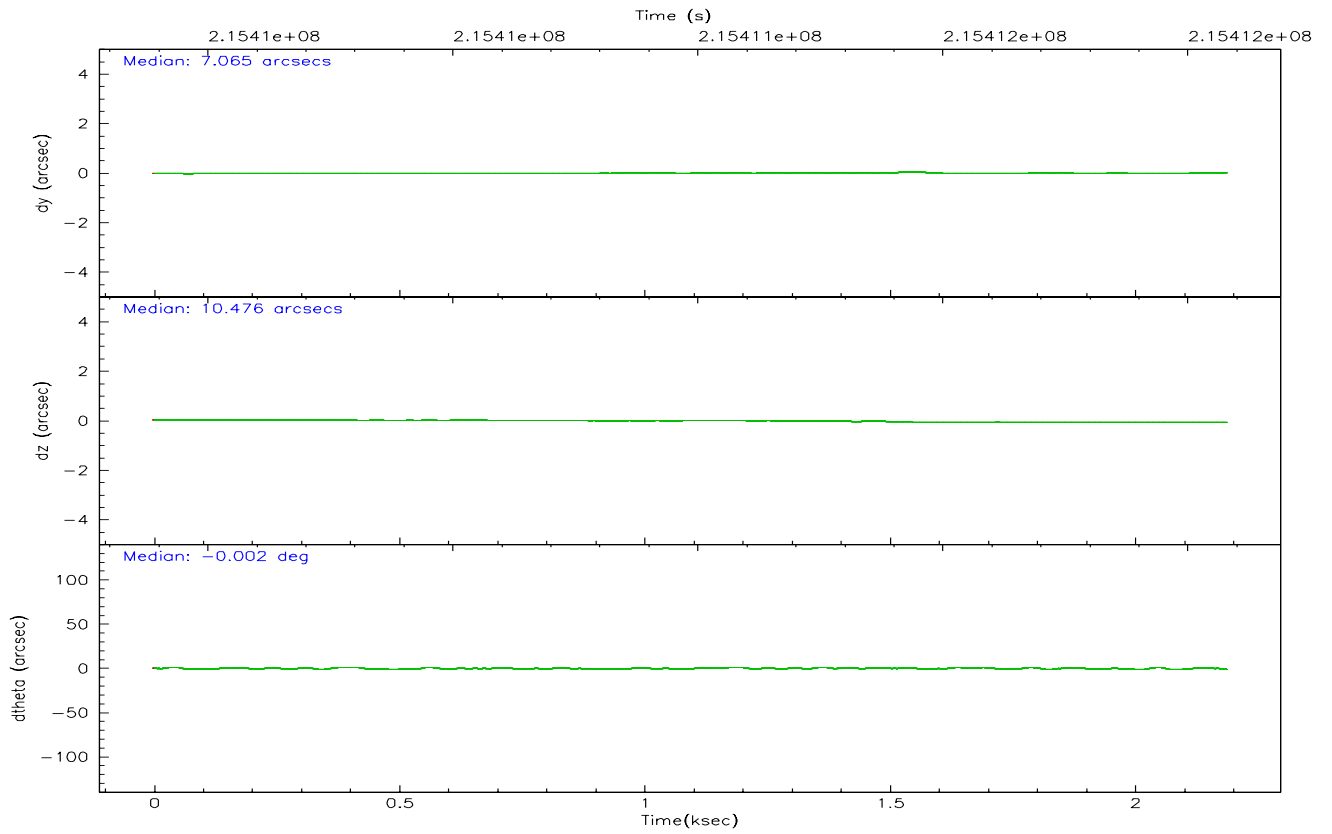
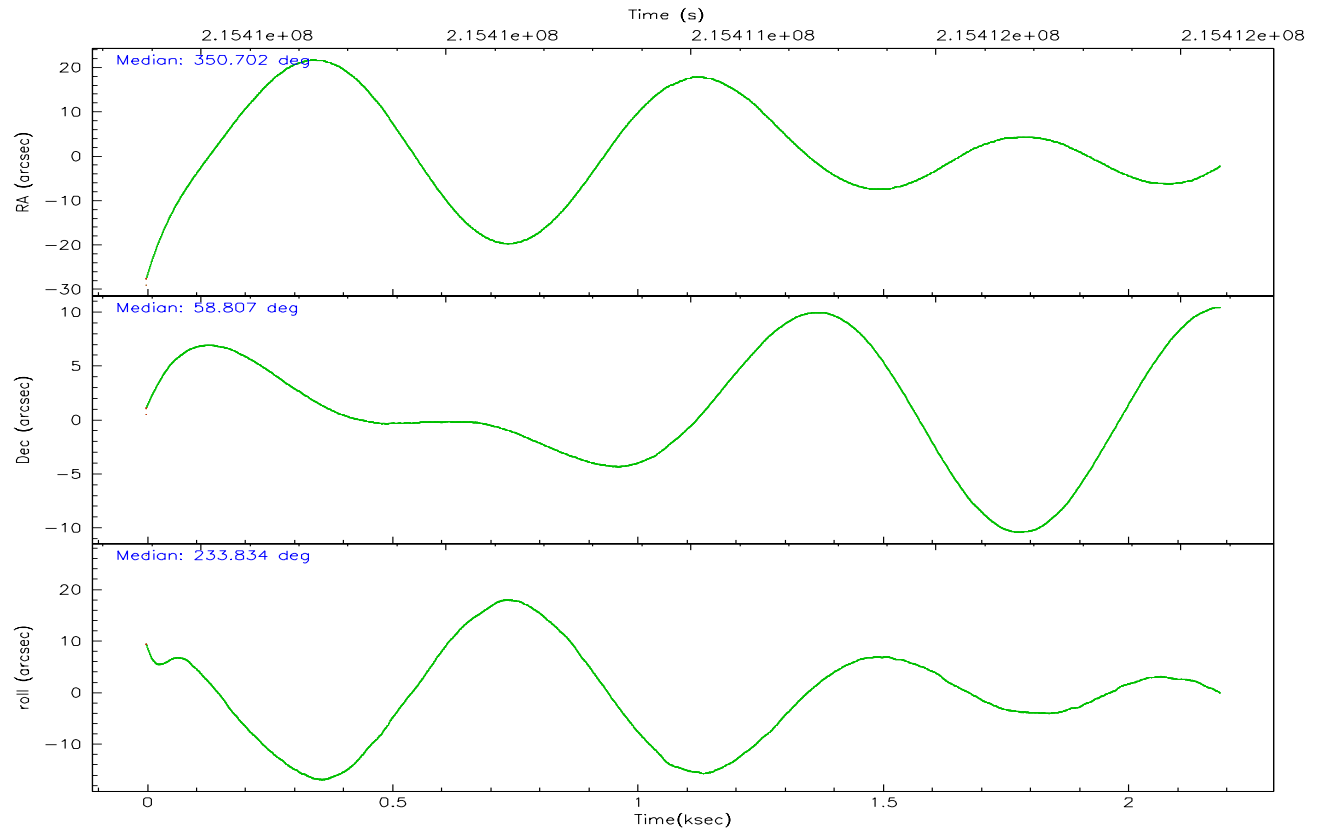
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-------------------|----------|----------|----------|--------|----------|----------|
| grade 0 events | 0 | 0 | 0 | 283672 | 0 | 0 |
| | 0% | 0% | 0% | 67% | 0% | 0% |
| grade 1 events | 0 | 0 | 0 | 4581 | 0 | 0 |
| | 0% | 0% | 0% | 1% | 0% | 0% |
| grade 2 events | 0 | 0 | 0 | 35973 | 0 | 0 |
| | 0% | 0% | 0% | 8% | 0% | 0% |
| grade 3 events | 0 | 0 | 0 | 11696 | 0 | 0 |
| | 0% | 0% | 0% | 2% | 0% | 0% |
| grade 4 events | 0 | 0 | 0 | 11734 | 0 | 0 |
| | 0% | 0% | 0% | 2% | 0% | 0% |
| grade 5 events | 0 | 0 | 0 | 3549 | 0 | 0 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 6 events | 0 | 0 | 0 | 7924 | 0 | 0 |
| | 0% | 0% | 0% | 1% | 0% | 0% |
| grade 7 events | 0 | 0 | 0 | 59630 | 0 | 0 |
| | 0% | 0% | 0% | 14% | 0% | 0% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 350.707316 | 350.7018478064608 | Alternating exposures requested | N | N |
| Pointing Dec | 58.834115 | 58.80694043907817 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 233.621887 | 233.8351853293487 | | | |
| Window start time | 212976064.184000 | 212976064.184000 | | | |
| Window stop time | 215568064.184000 | 215568064.184000 | | | |
| 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 | 215410074.184000 | 215408834.61411 | | | |
| Observation start date | 2004-10-29T04:06:50 | 2004-10-29T03:47:14 | | | |
| Observation end time | 215412074.184000 | 215412224.28926 | | | |
| Observation end date | 2004-10-29T04:40:10 | 2004-10-29T04:43:44 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



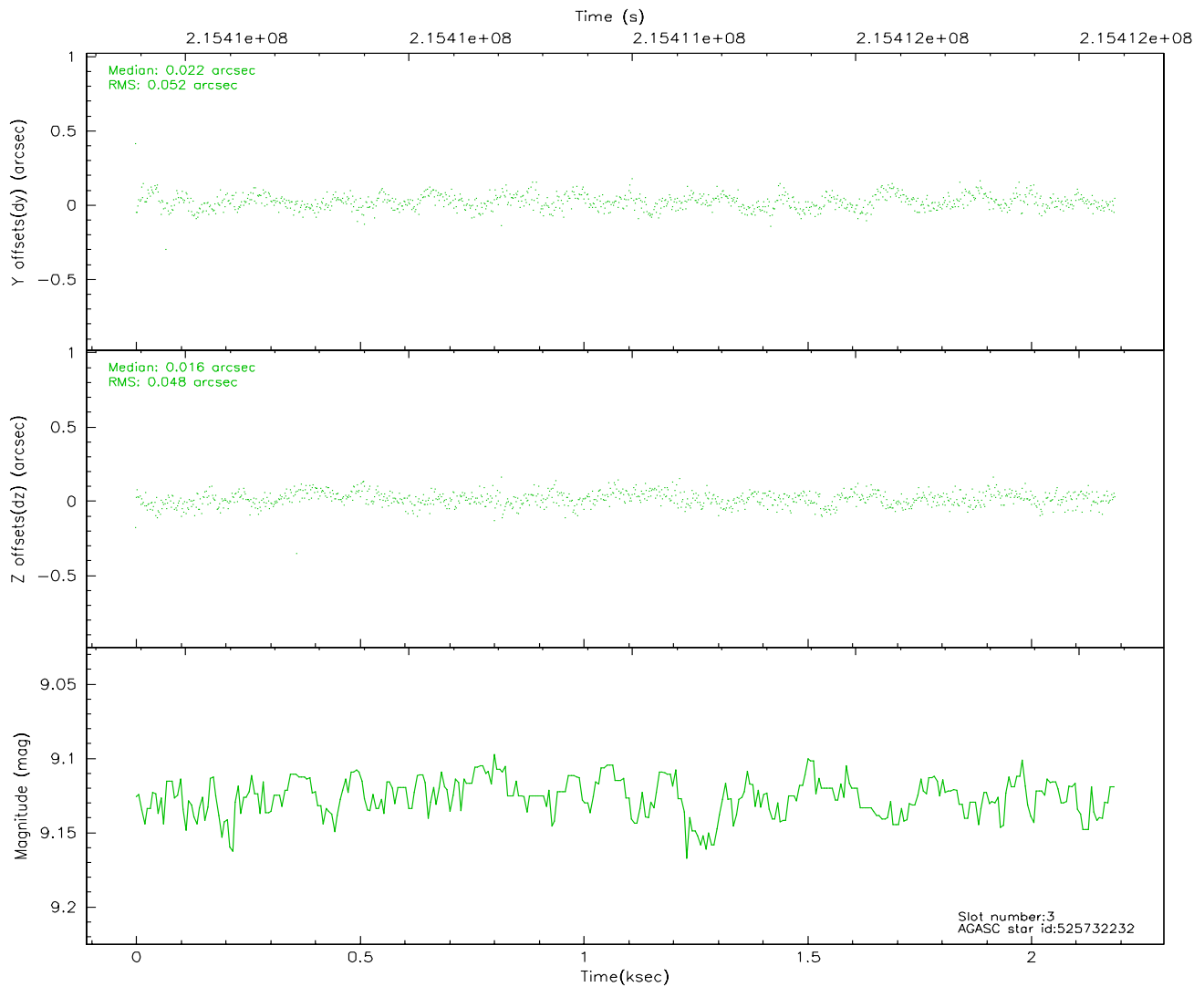
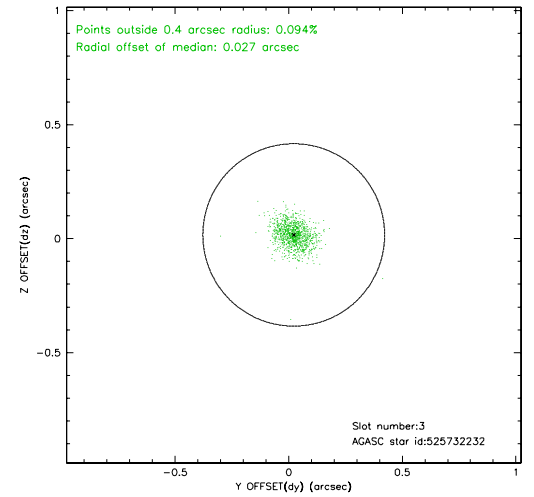
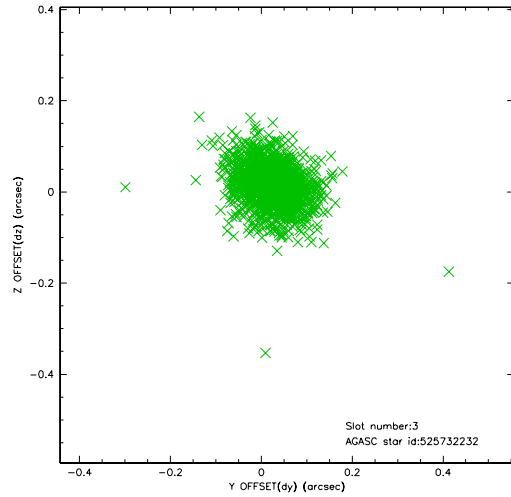


Slot Statistics

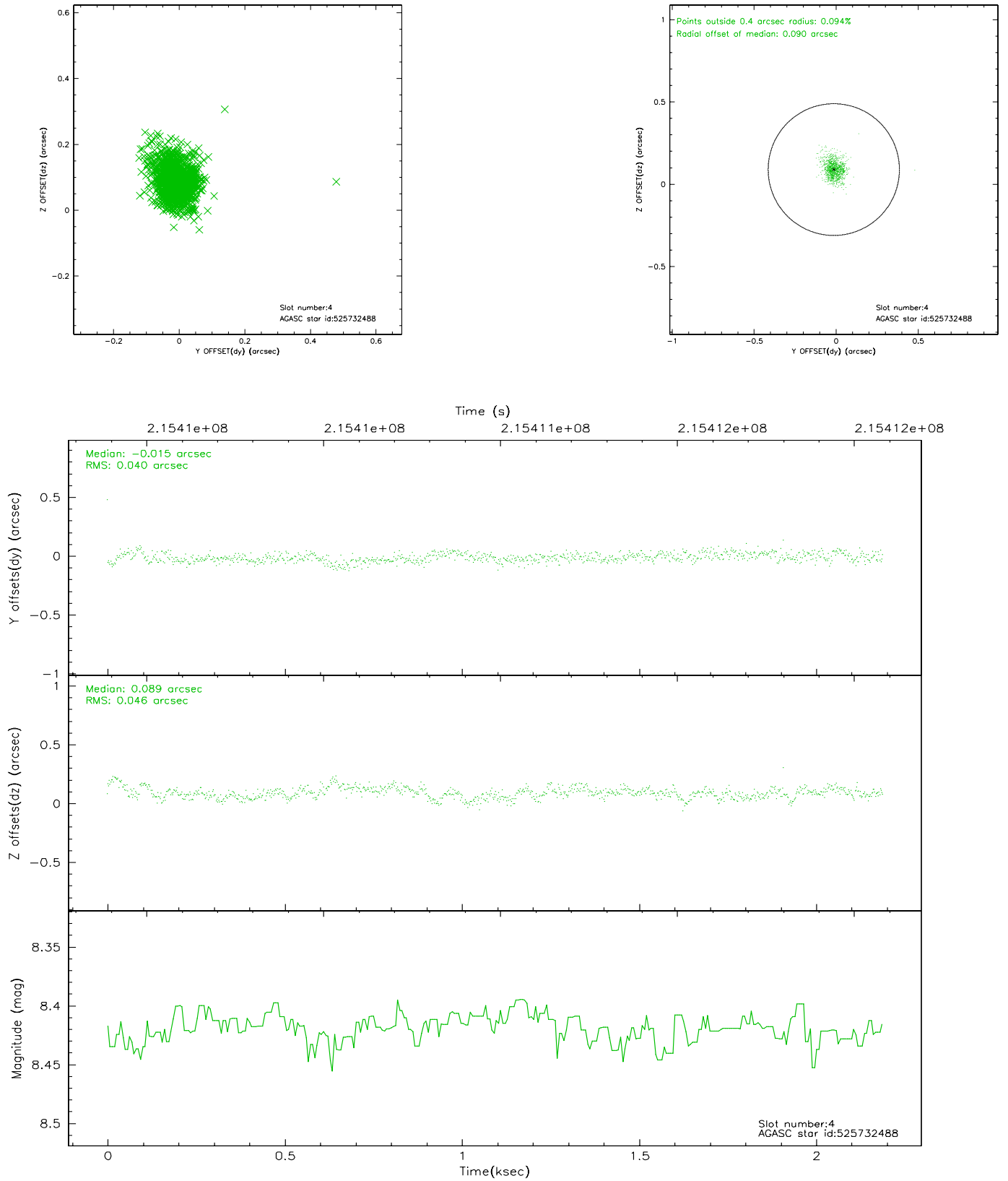
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|---------|
| 0 | FID | ACIS-I-1 | 7.25 | 535 | -0.005 | 0.022 | 0.006 | 0.010 | 0.000000 | 0.000000 | 932.60 | -833.94 |
| 1 | FID | ACIS-I-5 | 7.23 | 535 | -0.129 | 0.025 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1813.96 | 1062.09 |
| 2 | FID | ACIS-I-6 | 7.26 | 535 | 0.043 | 0.024 | 0.007 | 0.012 | 0.000000 | 0.000000 | 394.99 | 1709.95 |
| 3 | GUIDE | 525732232 | 9.13 | 1069 | 0.022 | 0.016 | 0.074 | 0.117 | 351.669550 | 58.757012 | -852.05 | 1604.62 |
| 4 | GUIDE | 525732488 | 8.42 | 1068 | -0.015 | 0.089 | 0.061 | 0.102 | 350.087090 | 58.516915 | 1606.19 | -262.76 |
| 5 | GUIDE | 525735976 | 8.85 | 1068 | -0.039 | -0.103 | 0.070 | 0.110 | 350.142956 | 58.277622 | 2244.87 | 325.46 |
| 6 | GUIDE | 525736400 | 9.06 | 1066 | -0.081 | 0.173 | 0.074 | 0.121 | 350.974563 | 59.175145 | -1279.16 | -331.09 |
| 7 | GUIDE | 525732528 | 9.35 | 1068 | 0.115 | -0.178 | 0.086 | 0.140 | 351.607241 | 59.298932 | -2337.88 | 332.40 |

2.4 Star Slots

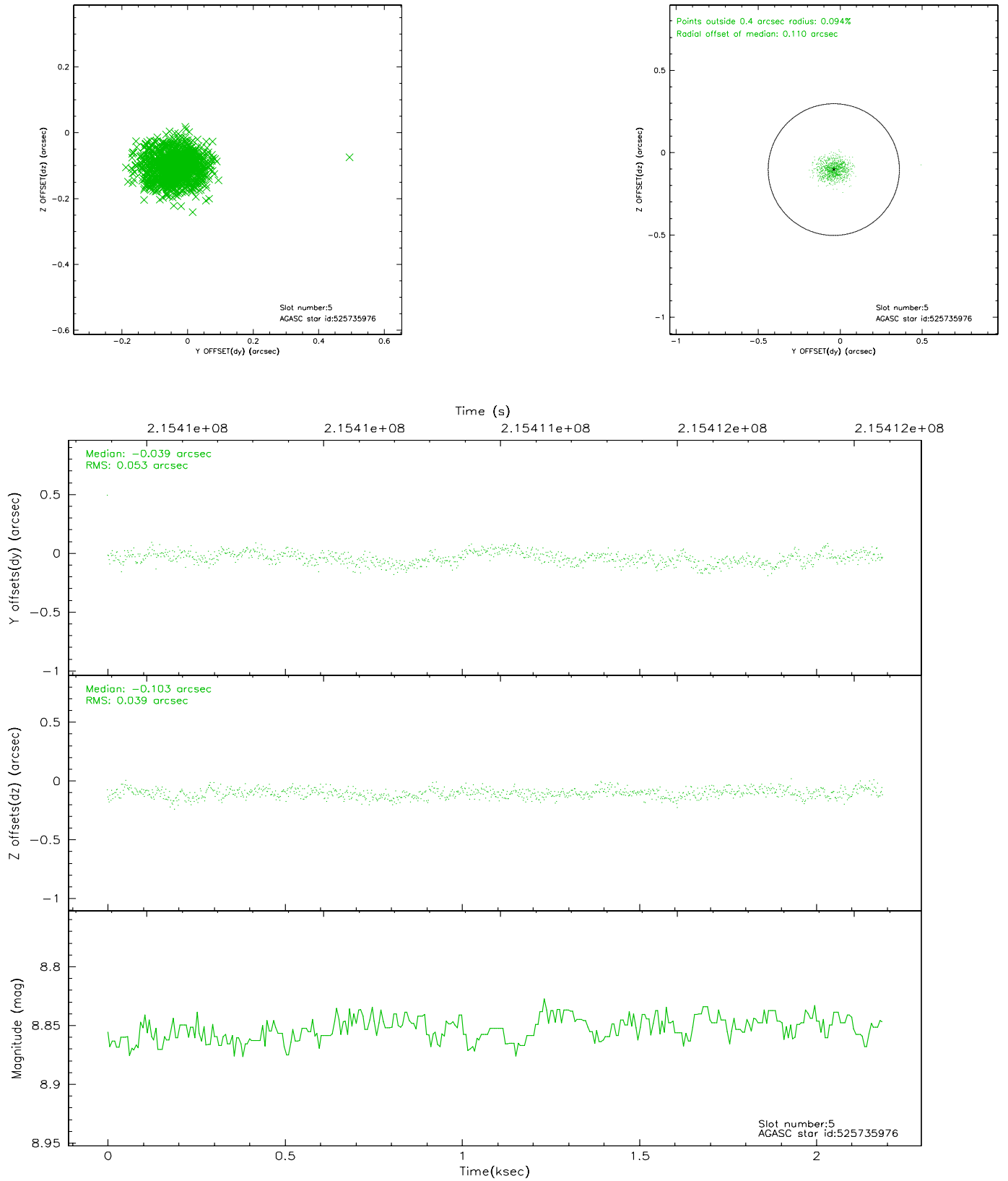
2.4.1 Slot 3



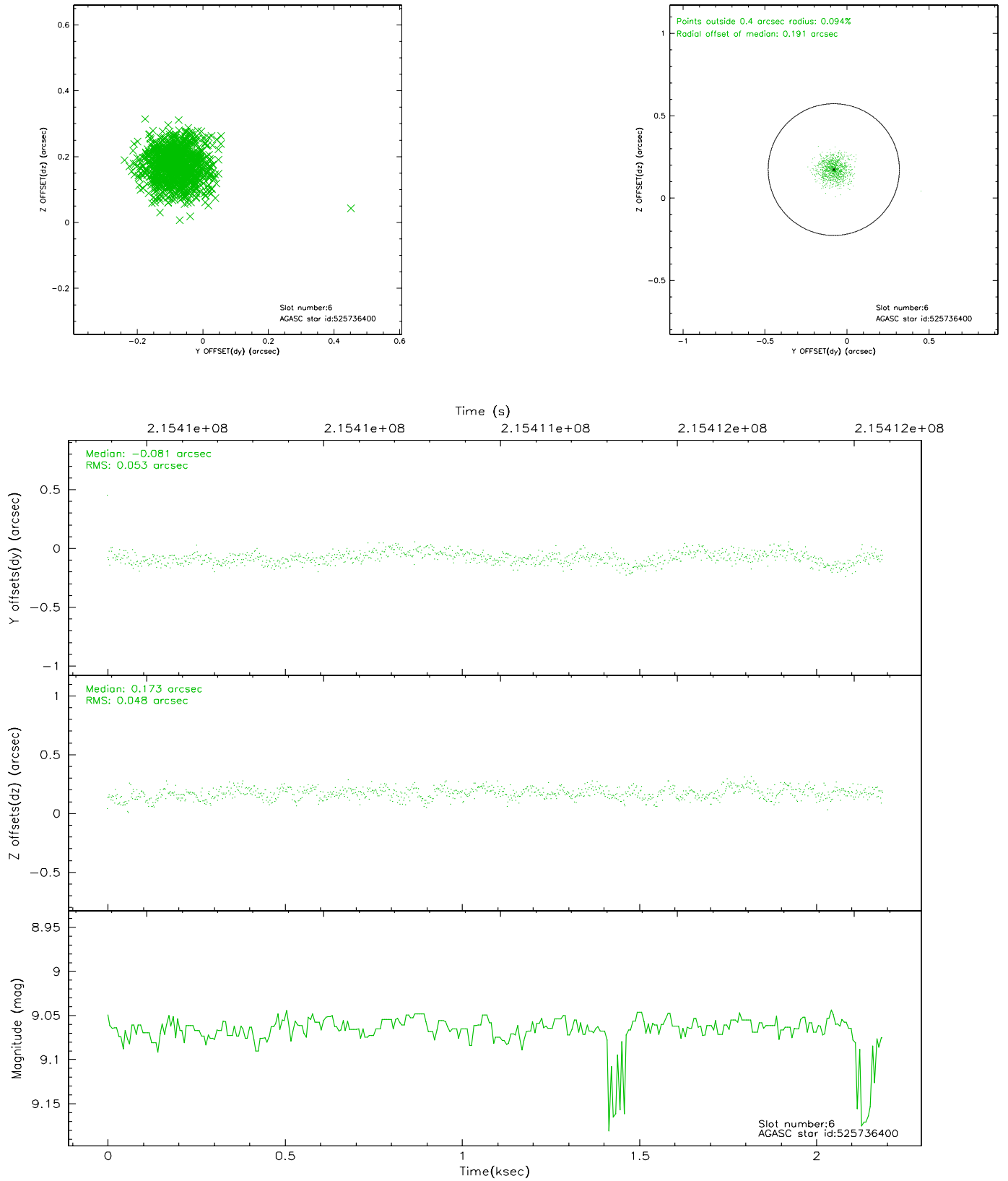
2.4.2 Slot 4



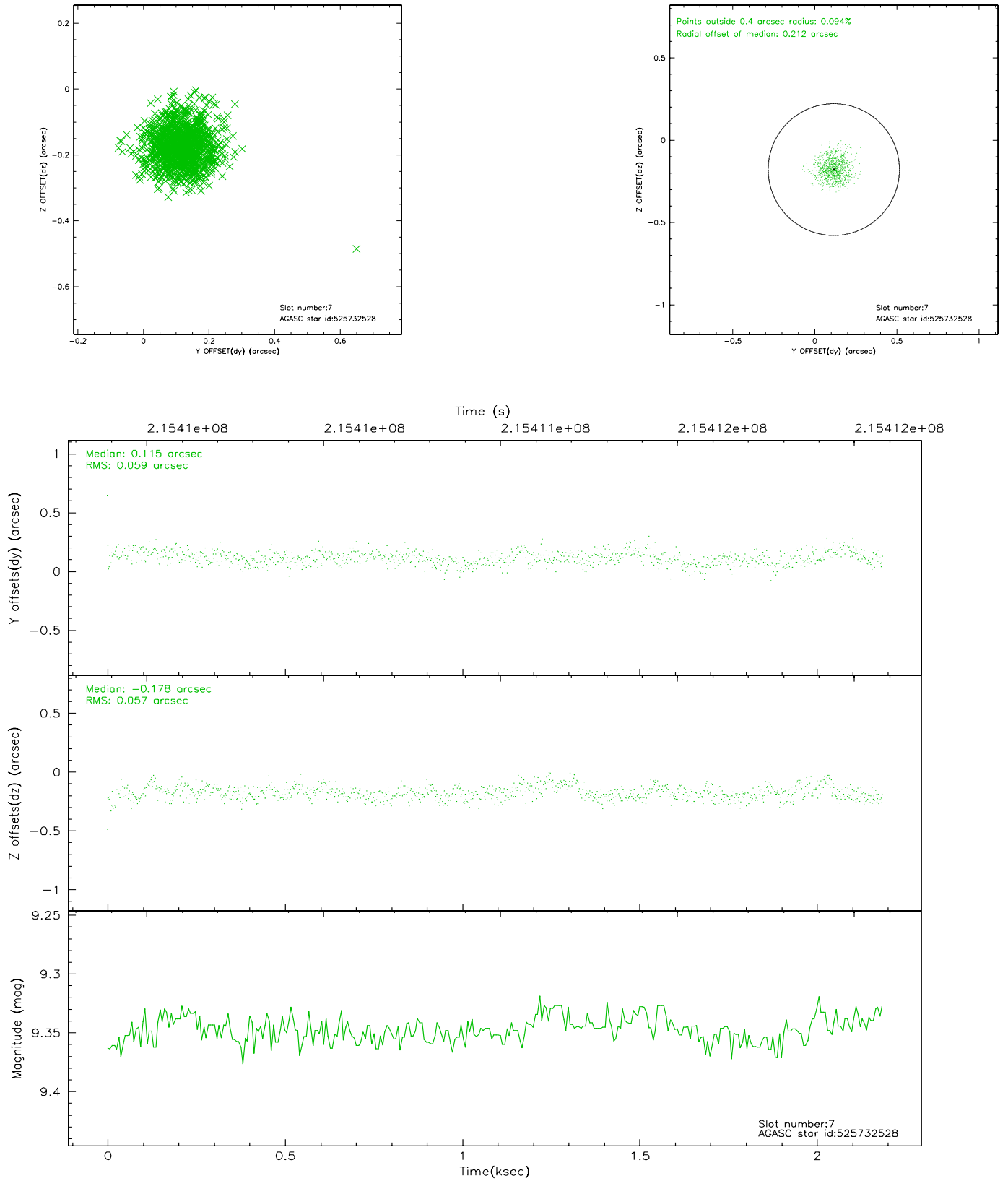
2.4.3 Slot 5



2.4.4 Slot 6

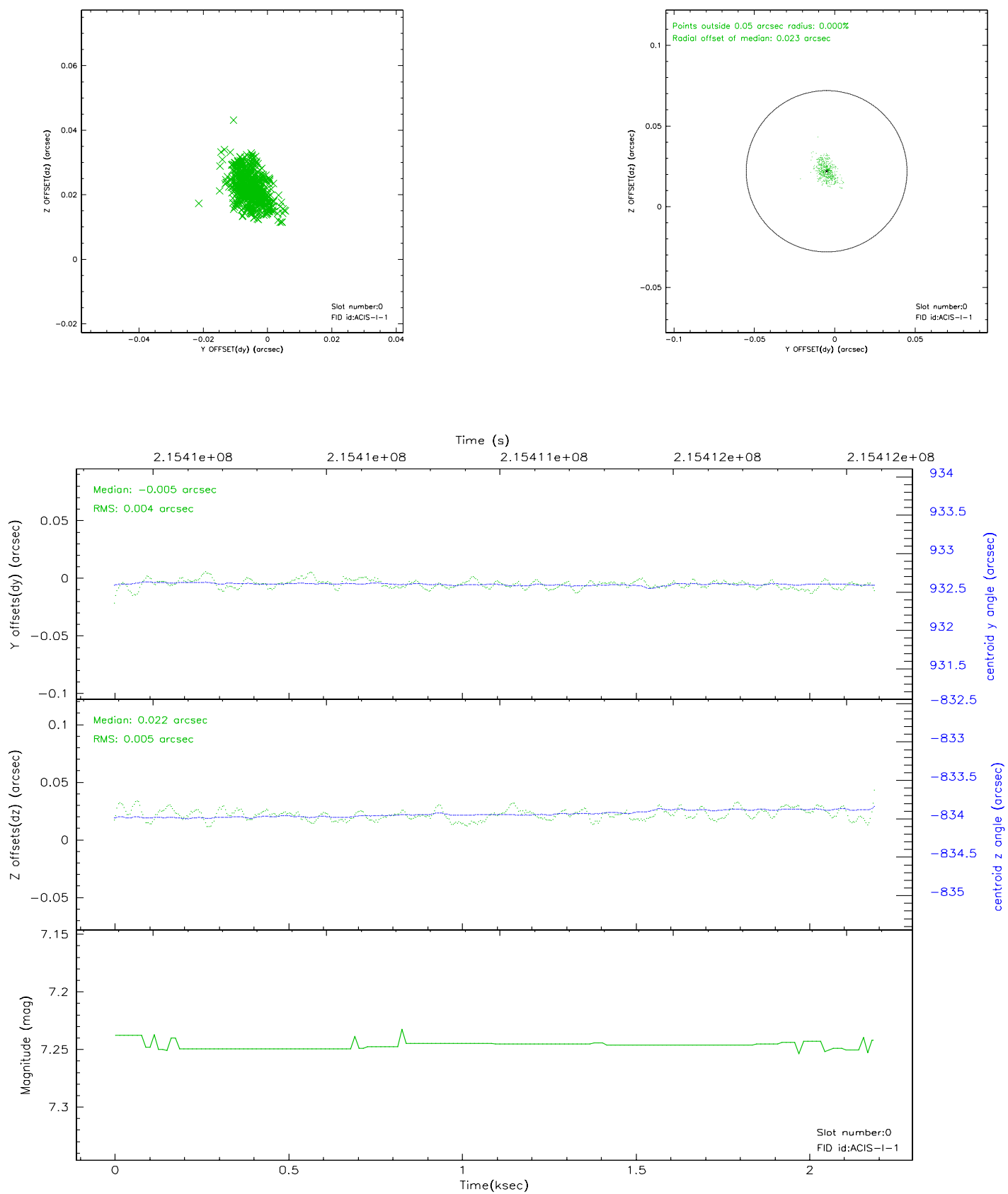


2.4.5 Slot 7

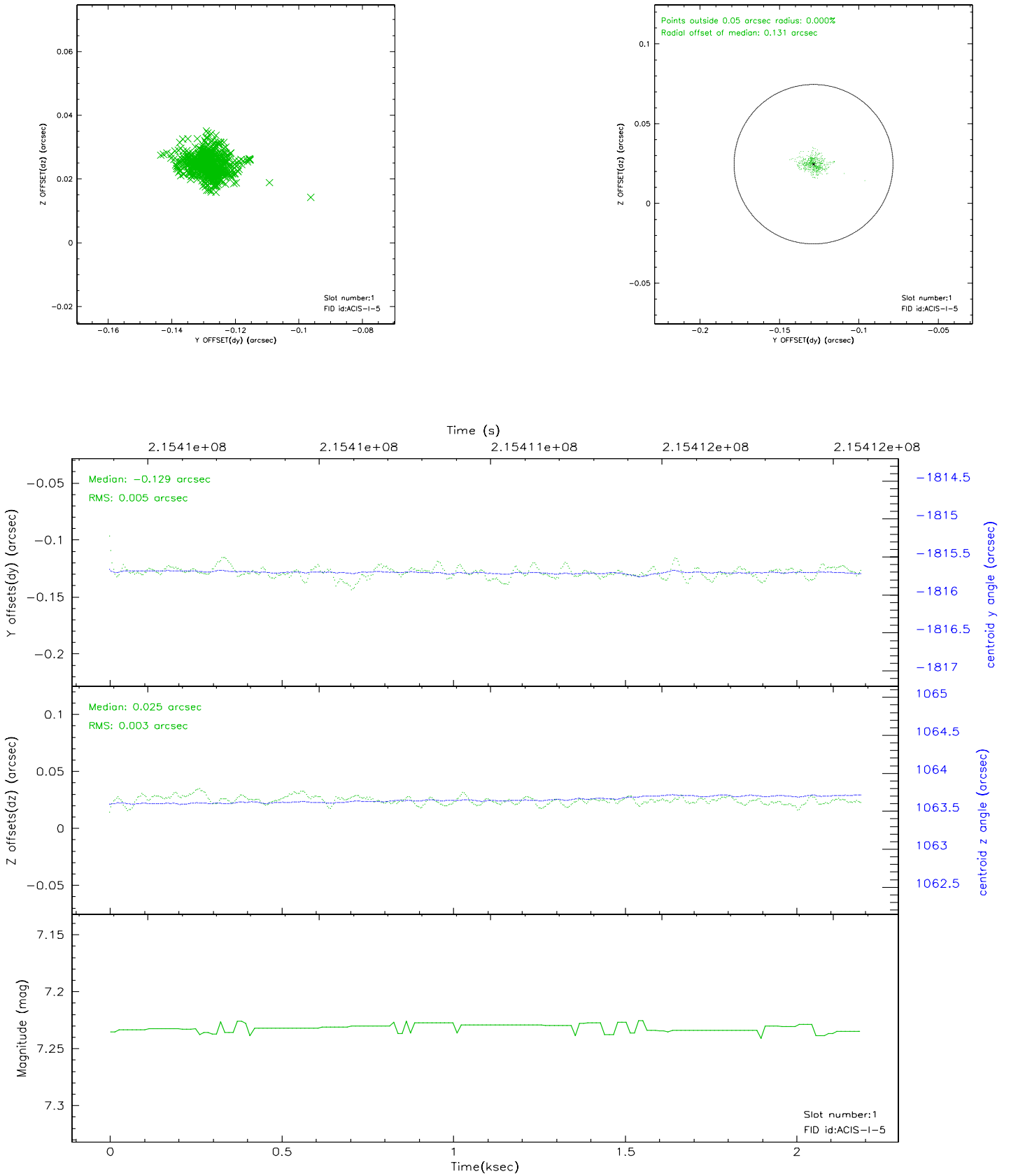


2.5 FID Slots

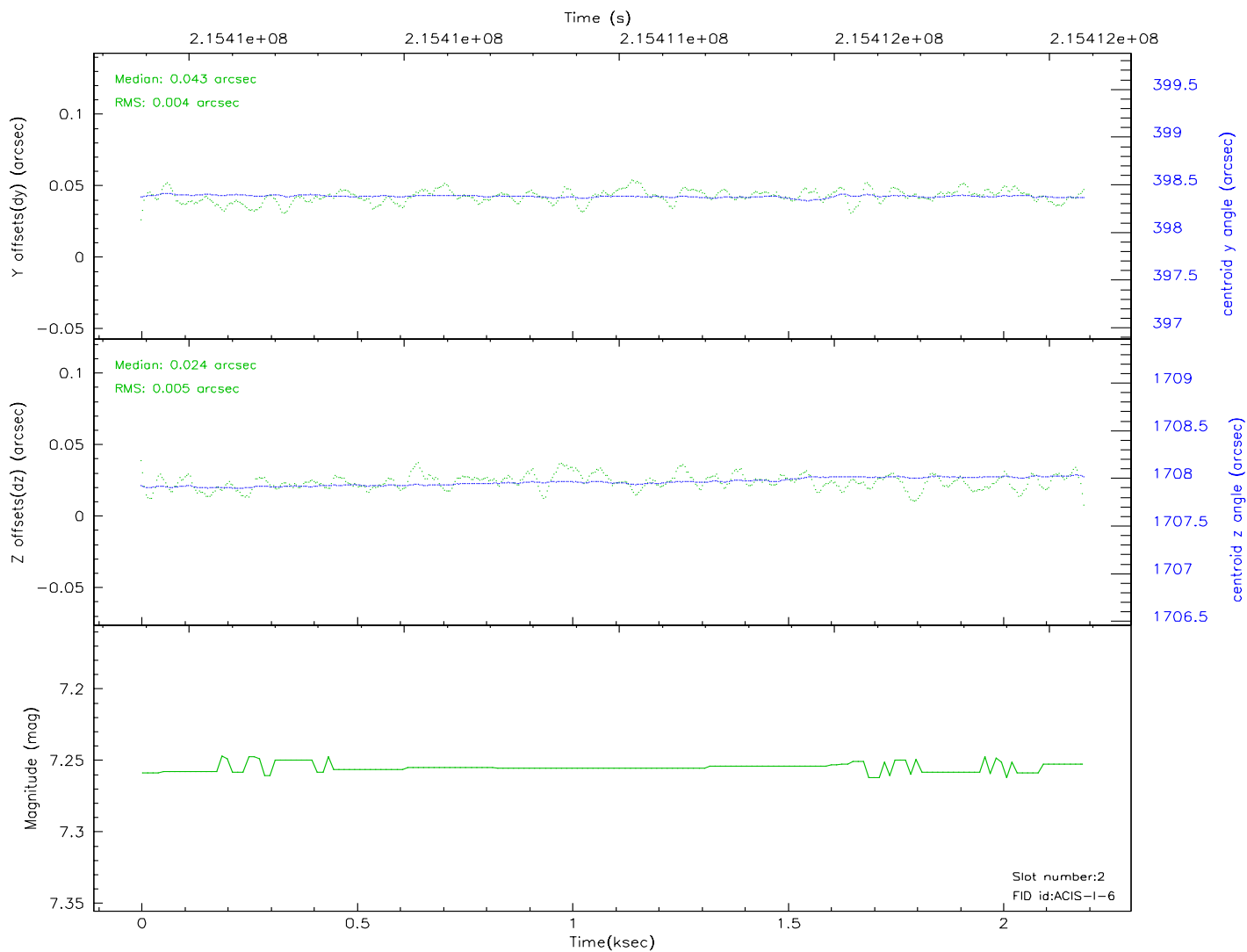
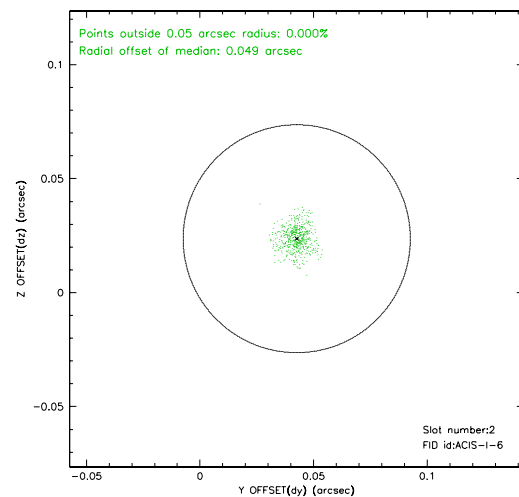
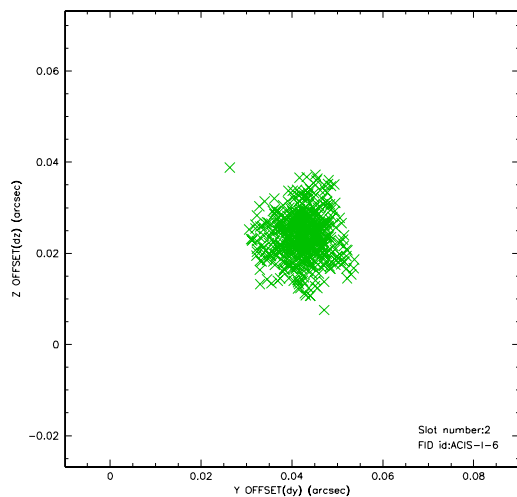
2.5.1 Slot 0



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) | 2006.04.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.59254136 |

A.2 Comments

Charge time:

New charge time is less than charge time used in previously distributed version

NEW CHARGE TIME = 1.592541 ks, 1 Obis

PREVIOUS CHARGE TIME = 2.182000 ks, 1 Obis.

Window constraint met.