

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7700 - L2 Version 3
Chandra X-Ray Center

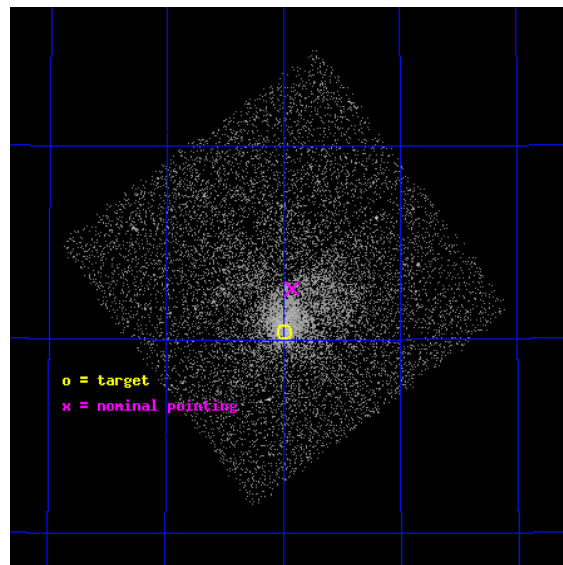
L2 Processing Date : Apr 16 2012

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1 Front

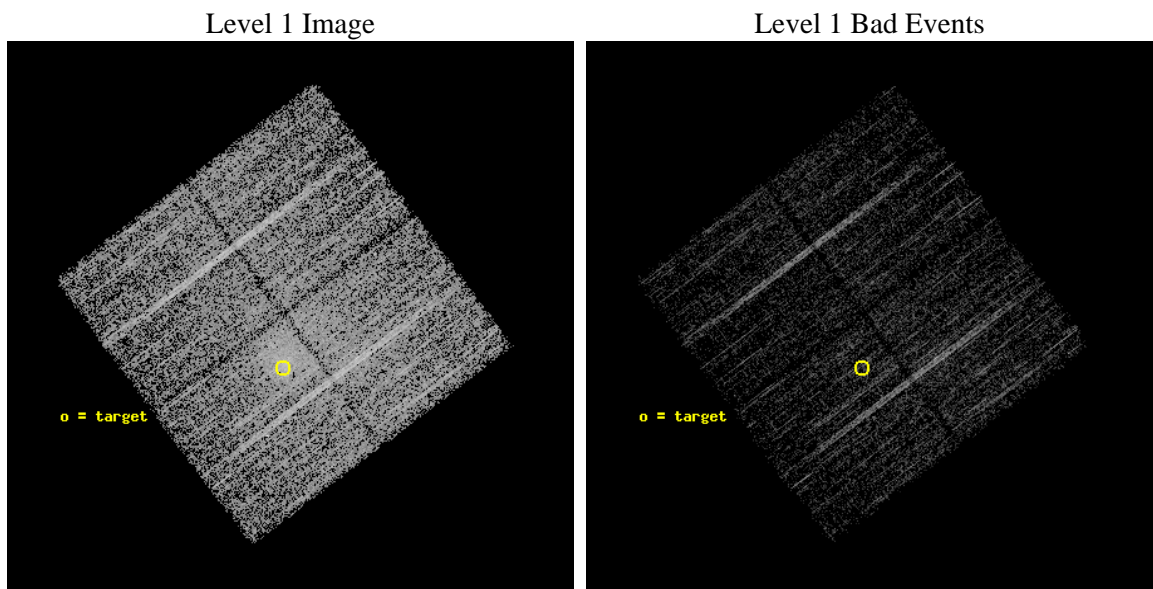
| | | |
|----------|--|---|
| seq_num | 701368 | Sequence number |
| obs_id | 7700 | Observation id |
| title | Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies | P |
| observer | Professor Gordon Garmire | Principal investigator |
| object | A665 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 127.74875 | Observer's specified target RA [deg] |
| dec_targ | 65.840556 | Observer's specified target Dec [deg] |
| ra_nom | 127.73167541421 | Nominal RA [deg] |
| dec_nom | 65.87715709027 | Nominal Dec [deg] |
| roll_nom | 143.06419404911 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5142.9000395536 | Sum of GTIs [s] |
| livetime | 5075.7042643889 | Livetime [s] |
| ontime0 | 5142.9000395536 | Sum of GTIs [s] |
| ontime1 | 5142.9000395536 | Sum of GTIs [s] |
| ontime2 | 5142.9000395536 | Sum of GTIs [s] |
| ontime3 | 5142.9000395536 | Sum of GTIs [s] |
| l2events | 16426 | Number of level 2 events |



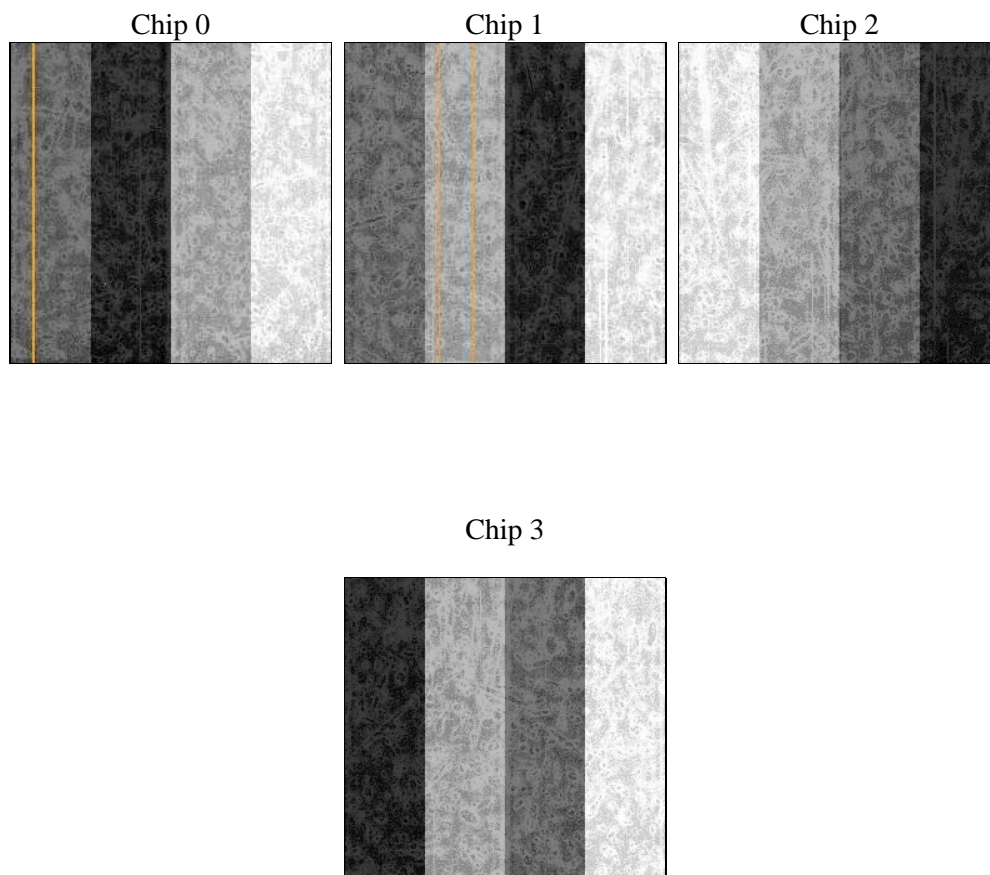
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3.1 | Processing system revision | ontime | 5142.9000395536 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 5142.9000395536 | Sum of GTIs [s] |
| date | 2012-04-16T05:50:34 | Date and time of file creation | ontime1 | 5142.9000395536 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 5142.9000395536 | Sum of GTIs [s] |
| | | | ontime3 | 5142.9000395536 | Sum of GTIs [s] |
| | | | l1events | 143913 | Number of level 1 events |

2.1.4 Events

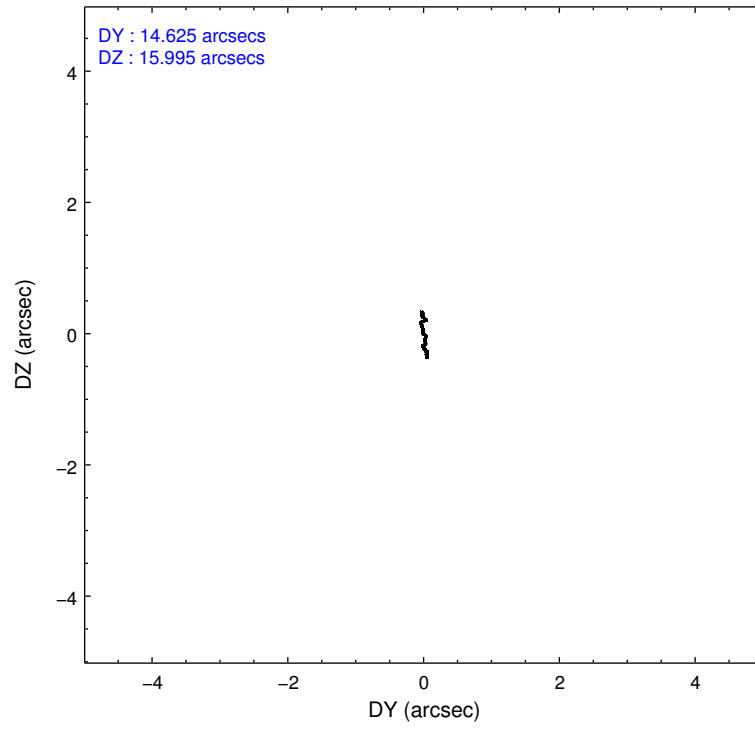
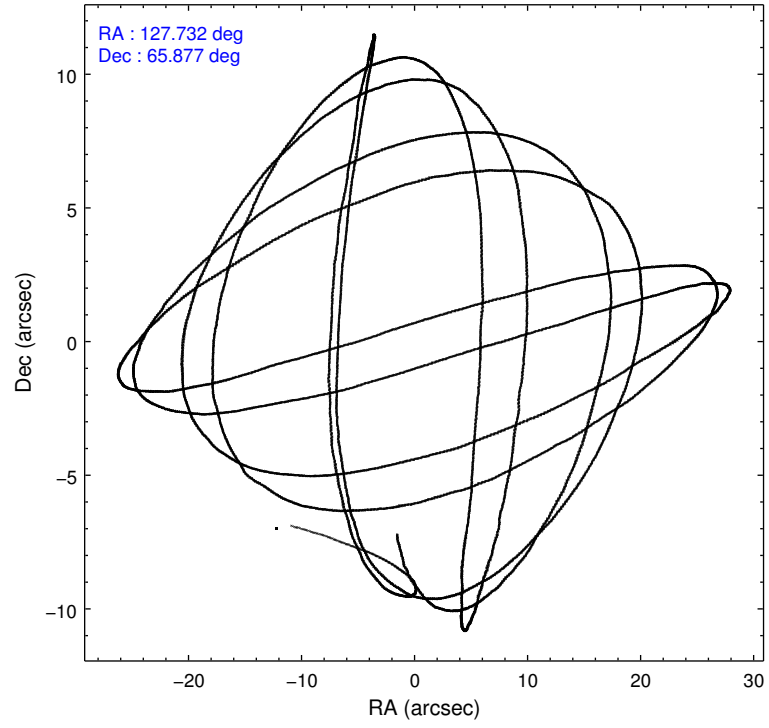
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 32567 | 32028 | 40498 | 38820 |
| rejected events | 29170 | 28098 | 35828 | 31549 |
| rejected % | 89% | 87% | 88% | 81% |

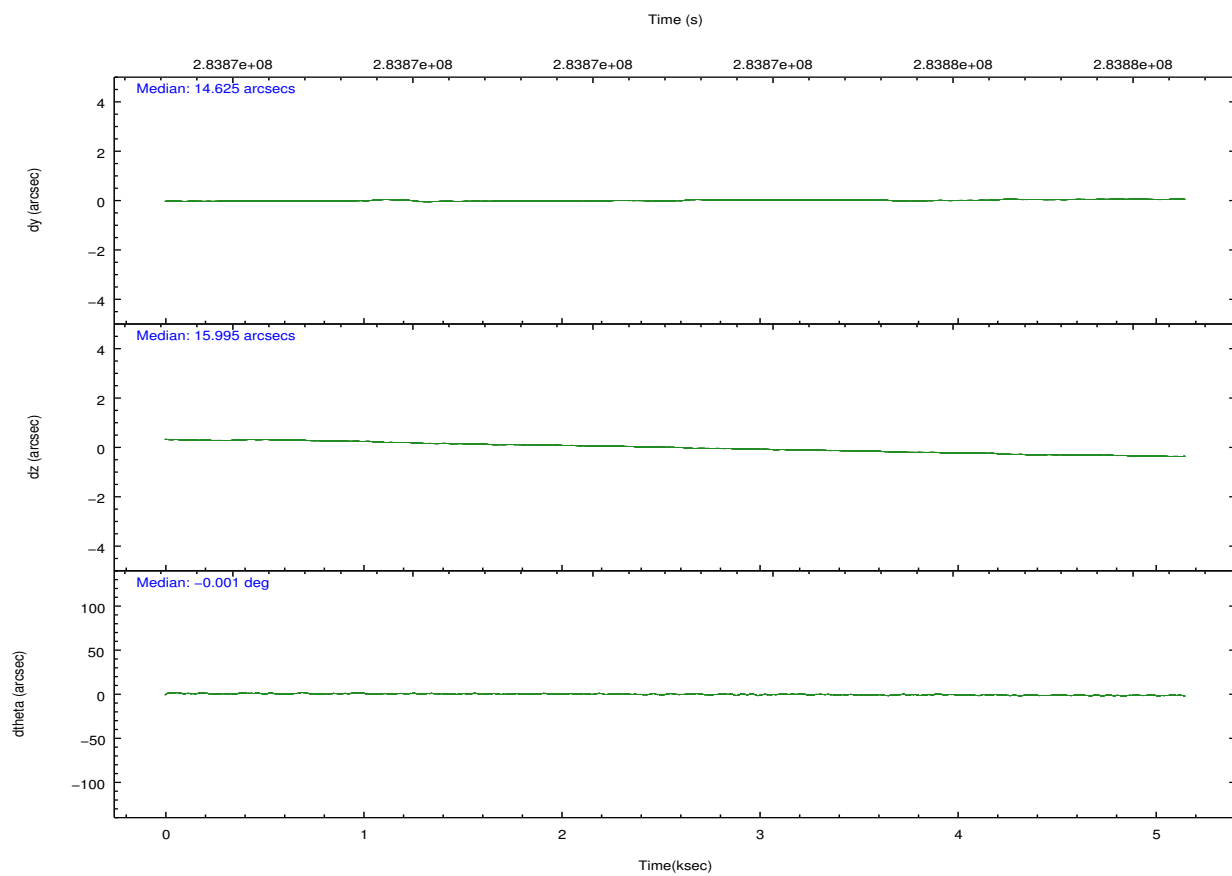
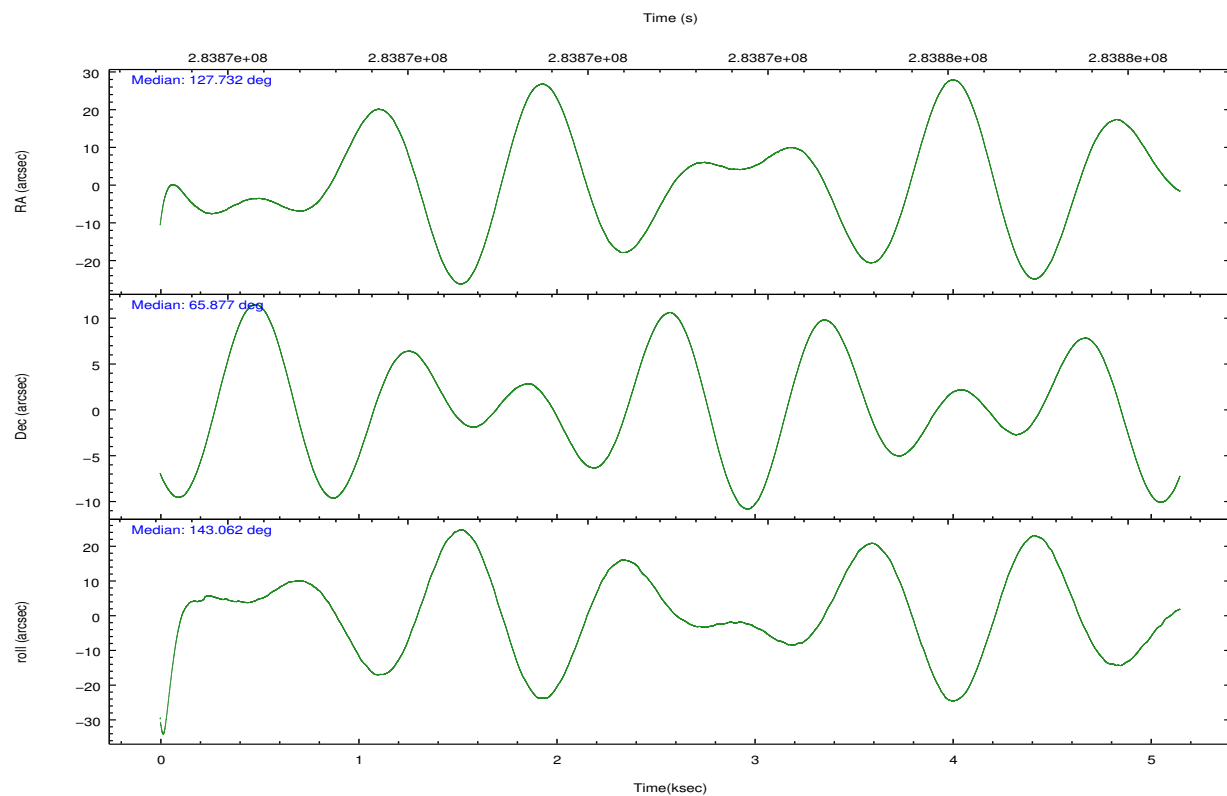
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 1661 | 1965 | 2708 | 5048 |
| | 5% | 6% | 6% | 13% |
| grade 1 events | 19 | 20 | 36 | 50 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 789 | 791 | 921 | 1079 |
| | 2% | 2% | 2% | 2% |
| grade 3 events | 367 | 424 | 398 | 468 |
| | 1% | 1% | 0% | 1% |
| grade 4 events | 341 | 406 | 396 | 444 |
| | 1% | 1% | 0% | 1% |
| grade 5 events | 599 | 665 | 532 | 715 |
| | 1% | 2% | 1% | 1% |
| grade 6 events | 443 | 613 | 459 | 587 |
| | 1% | 1% | 1% | 1% |
| grade 7 events | 28348 | 27144 | 35048 | 30429 |
| | 87% | 84% | 86% | 78% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-0123 | ACIS-0123 | 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 | 127.798588 | 127.7316754142134 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 65.874051 | 65.87715709027027 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 142.794539 | 143.0641940491106 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 283871026.184000 | 283869924.37409 | | | |
| Observation start date | 2006-12-30T13:02:41 | 2006-12-30T12:45:24 | | | |
| [s] Observation end time (MET) | 283876026.184000 | 283876724.22441 | | | |
| Observation end date | 2006-12-30T14:26:01 | 2006-12-30T14:38:44 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



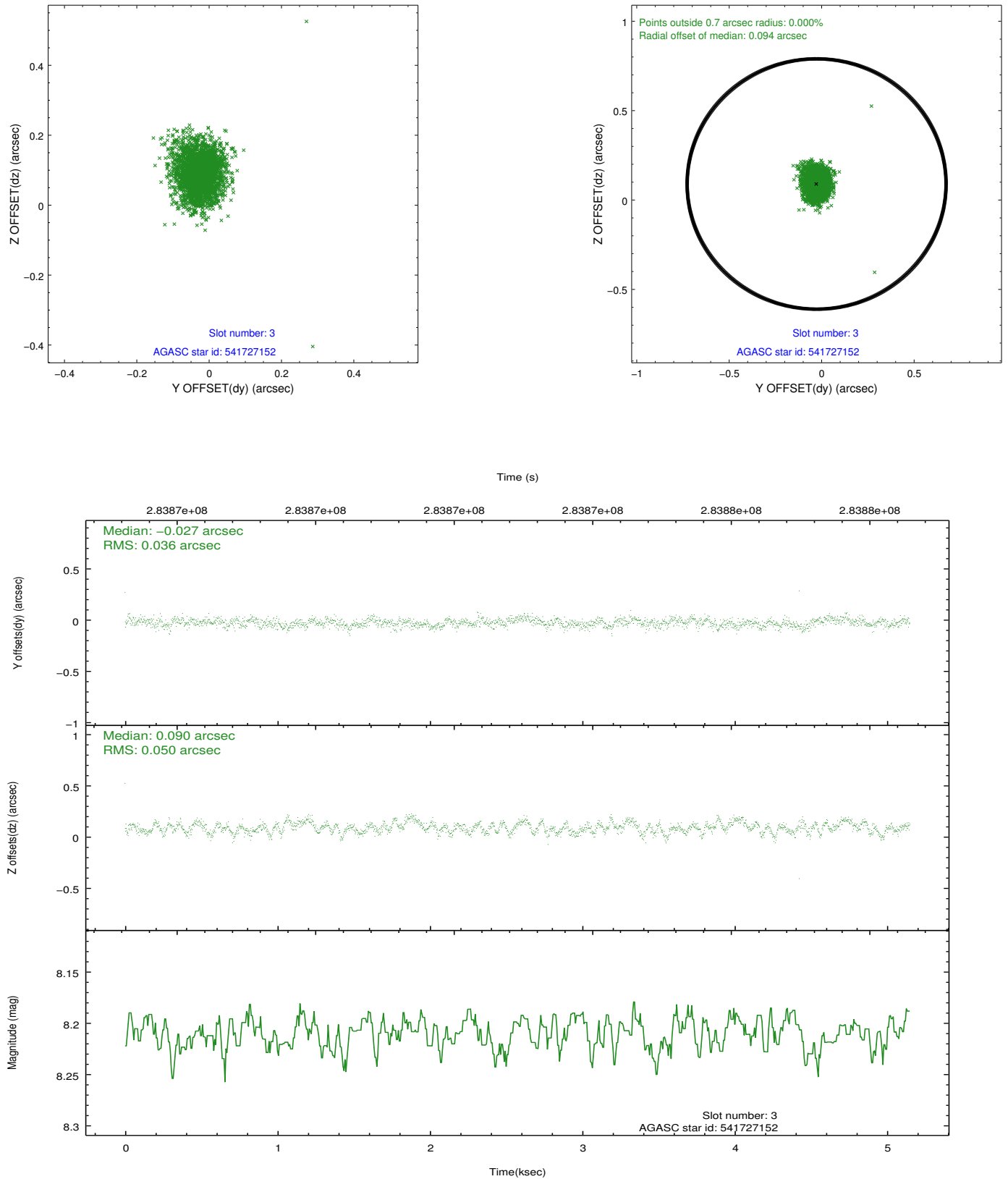


Slot Statistics

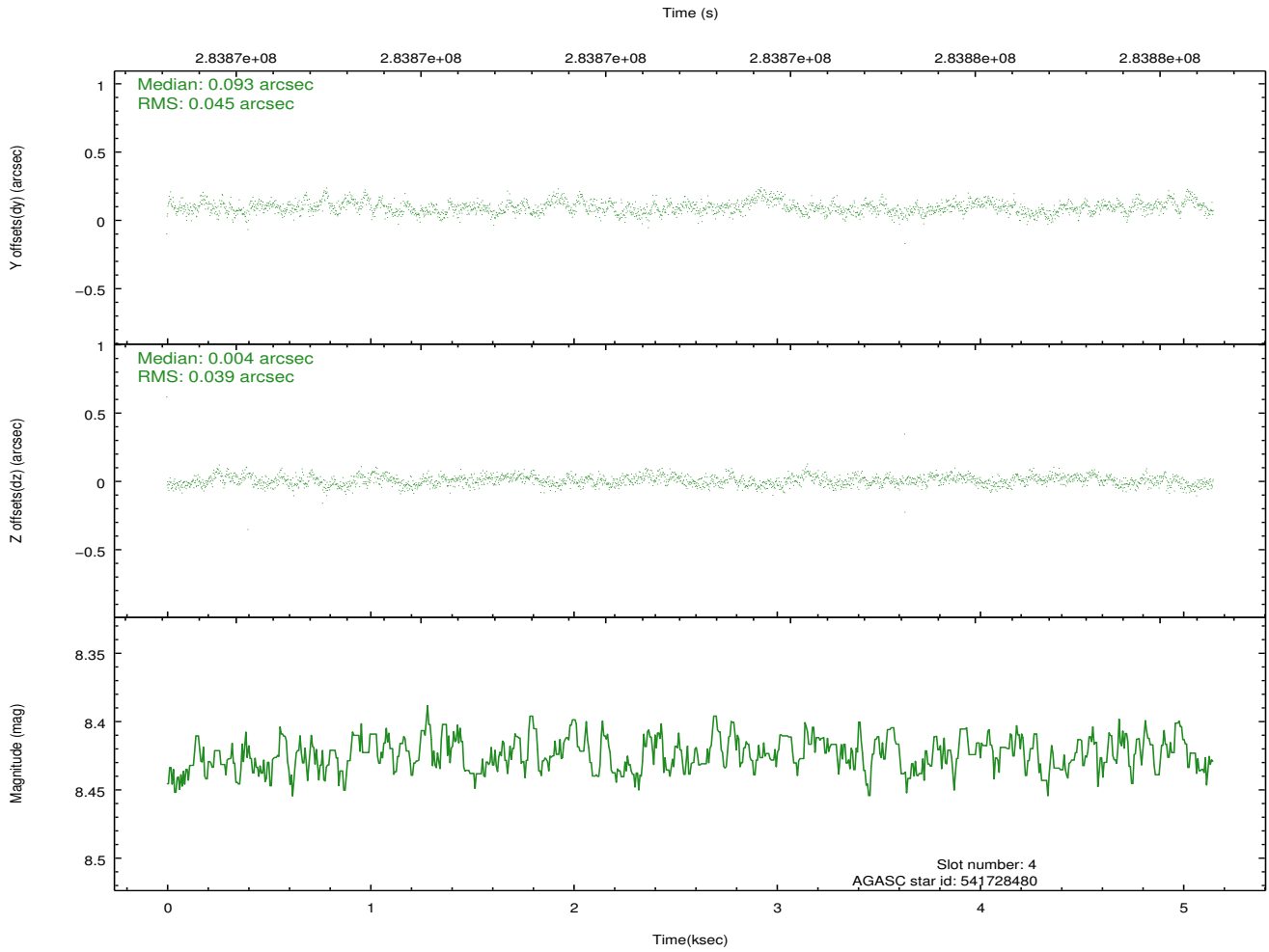
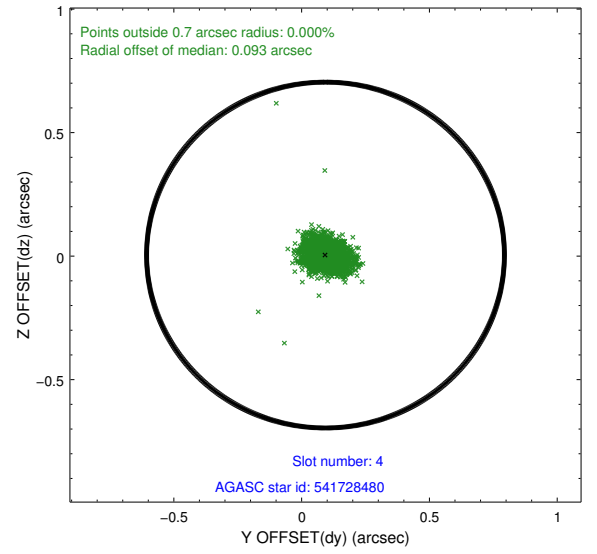
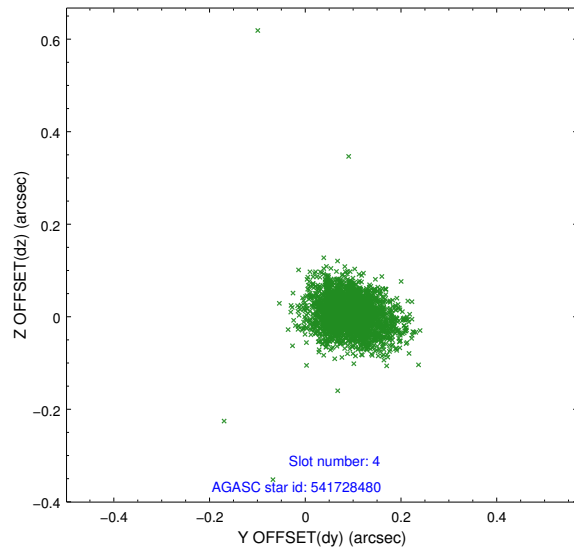
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|---------|
| 0 | FID | ACIS-I-1 | 7.23 | 1256 | 0.074 | -0.066 | 0.009 | 0.015 | 0.000000 | 0.000000 | 924.89 | -839.70 |
| 1 | FID | ACIS-I-5 | 7.22 | 1256 | -0.240 | 0.062 | 0.008 | 0.012 | 0.000000 | 0.000000 | -1822.84 | 1057.39 |
| 2 | FID | ACIS-I-6 | 7.24 | 1256 | 0.074 | 0.074 | 0.009 | 0.014 | 0.000000 | 0.000000 | 389.21 | 1703.19 |
| 3 | GUIDE | 541727152 | 8.21 | 2512 | -0.027 | 0.090 | 0.063 | 0.105 | 127.263195 | 66.213821 | 1360.98 | -506.99 |
| 4 | GUIDE | 541728480 | 8.42 | 2511 | 0.093 | 0.004 | 0.060 | 0.103 | 125.879819 | 65.741108 | 1997.72 | 2062.12 |
| 5 | GUIDE | 541729480 | 9.06 | 2509 | -0.008 | -0.063 | 0.088 | 0.136 | 126.985305 | 65.880968 | 973.58 | 697.90 |
| 6 | GUIDE | 541730424 | 9.18 | 2513 | 0.000 | 0.060 | 0.074 | 0.118 | 127.891536 | 65.345004 | -1262.25 | 1432.43 |
| 7 | GUIDE | 541730880 | 8.10 | 2512 | -0.058 | -0.087 | 0.064 | 0.103 | 127.501712 | 65.260390 | -979.91 | 2029.30 |

2.4 Star Slots

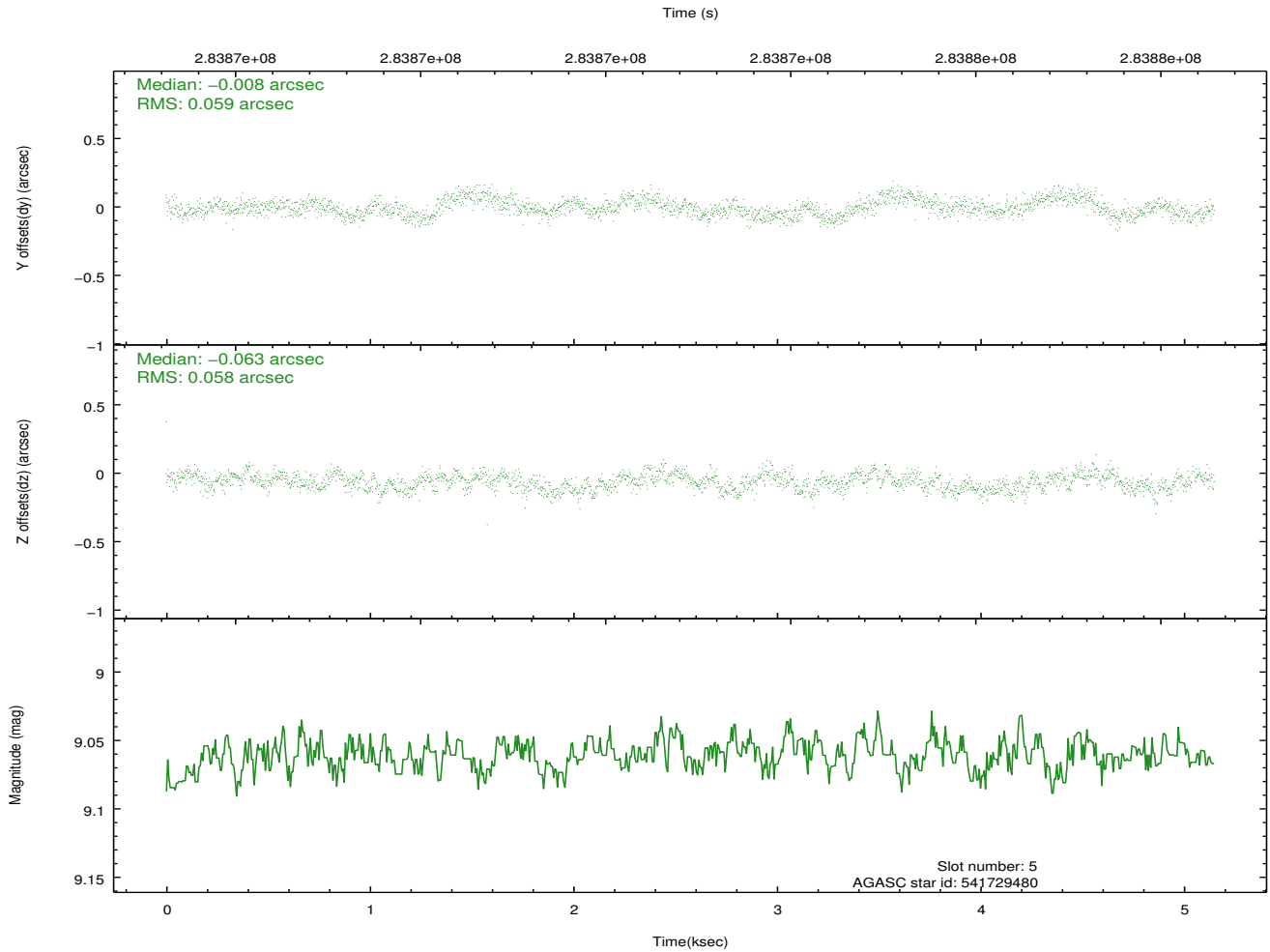
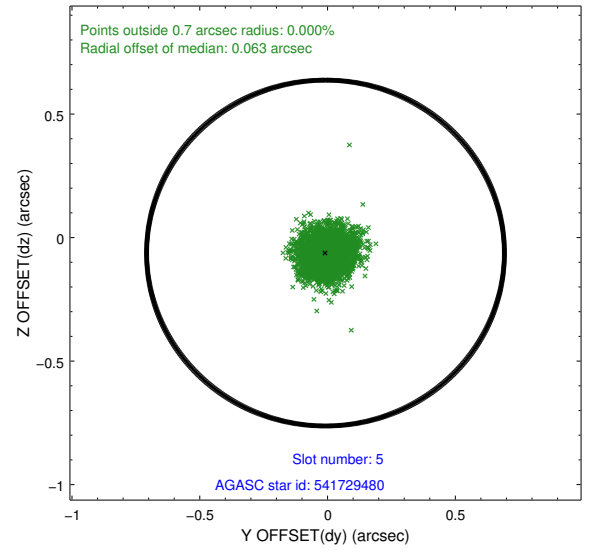
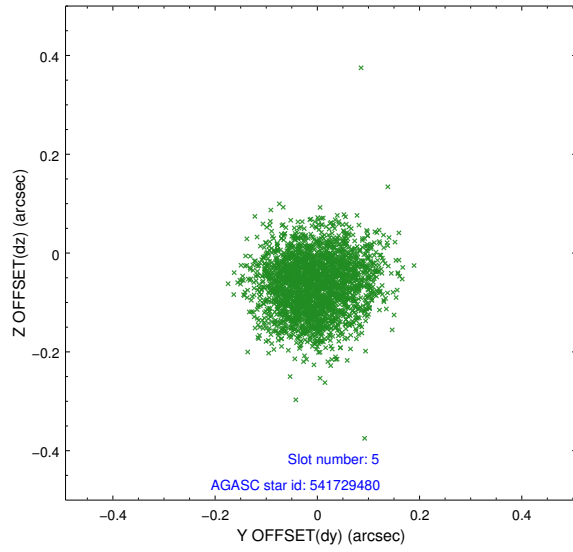
2.4.1 Slot 3



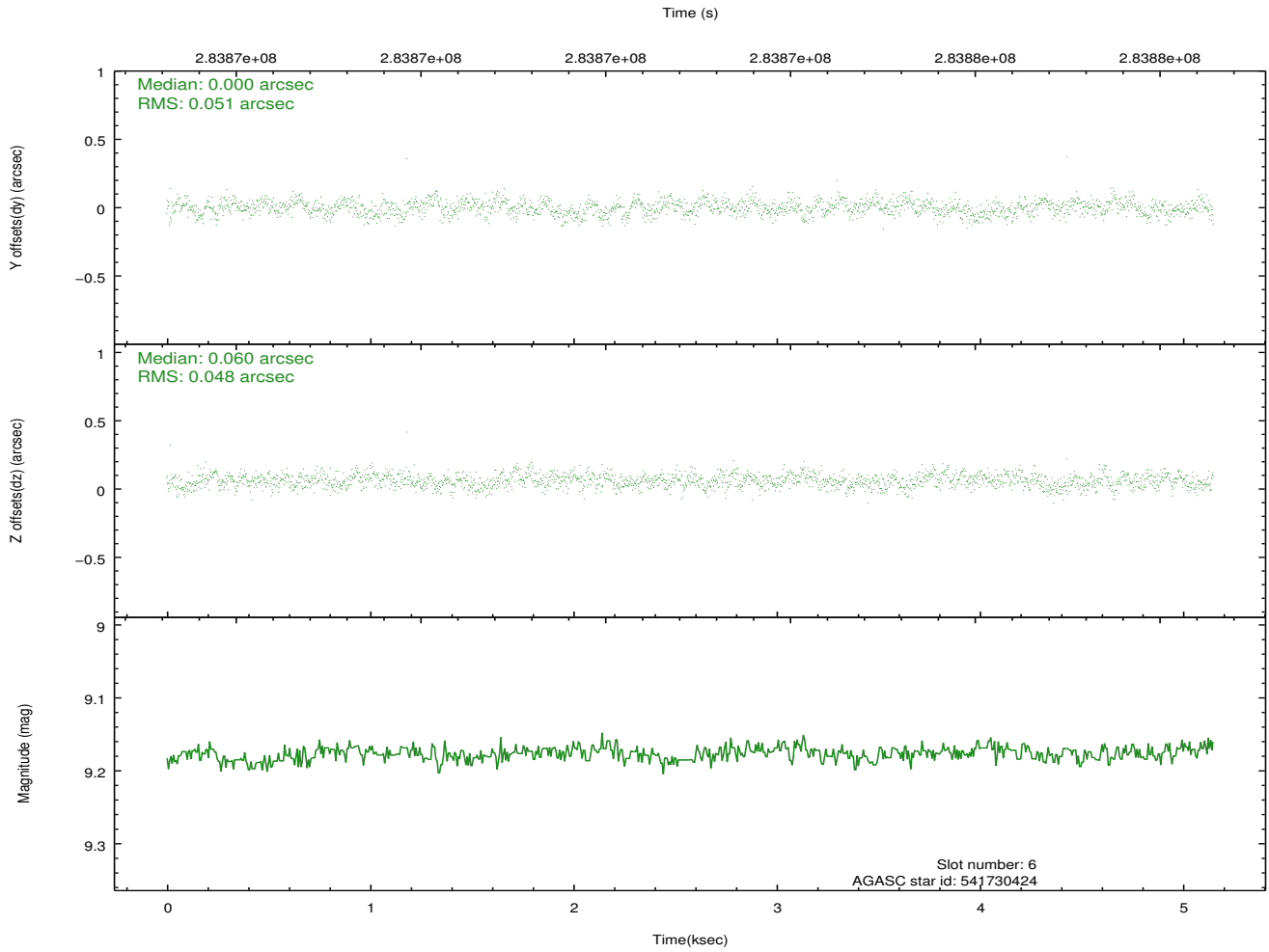
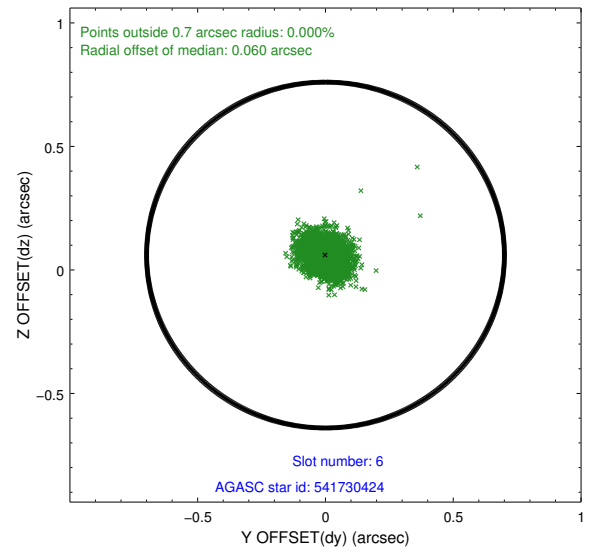
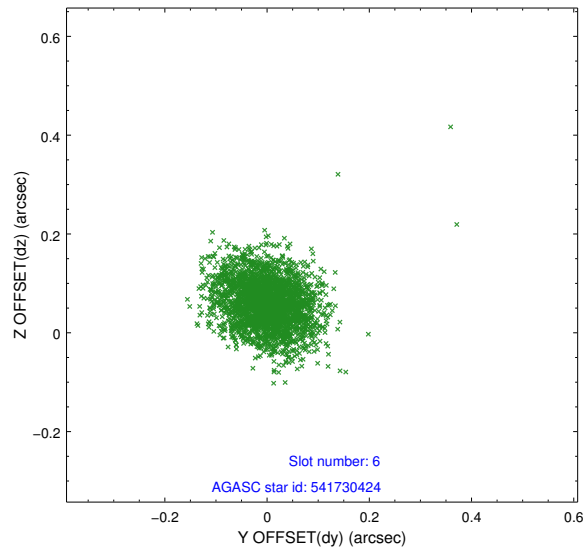
2.4.2 Slot 4



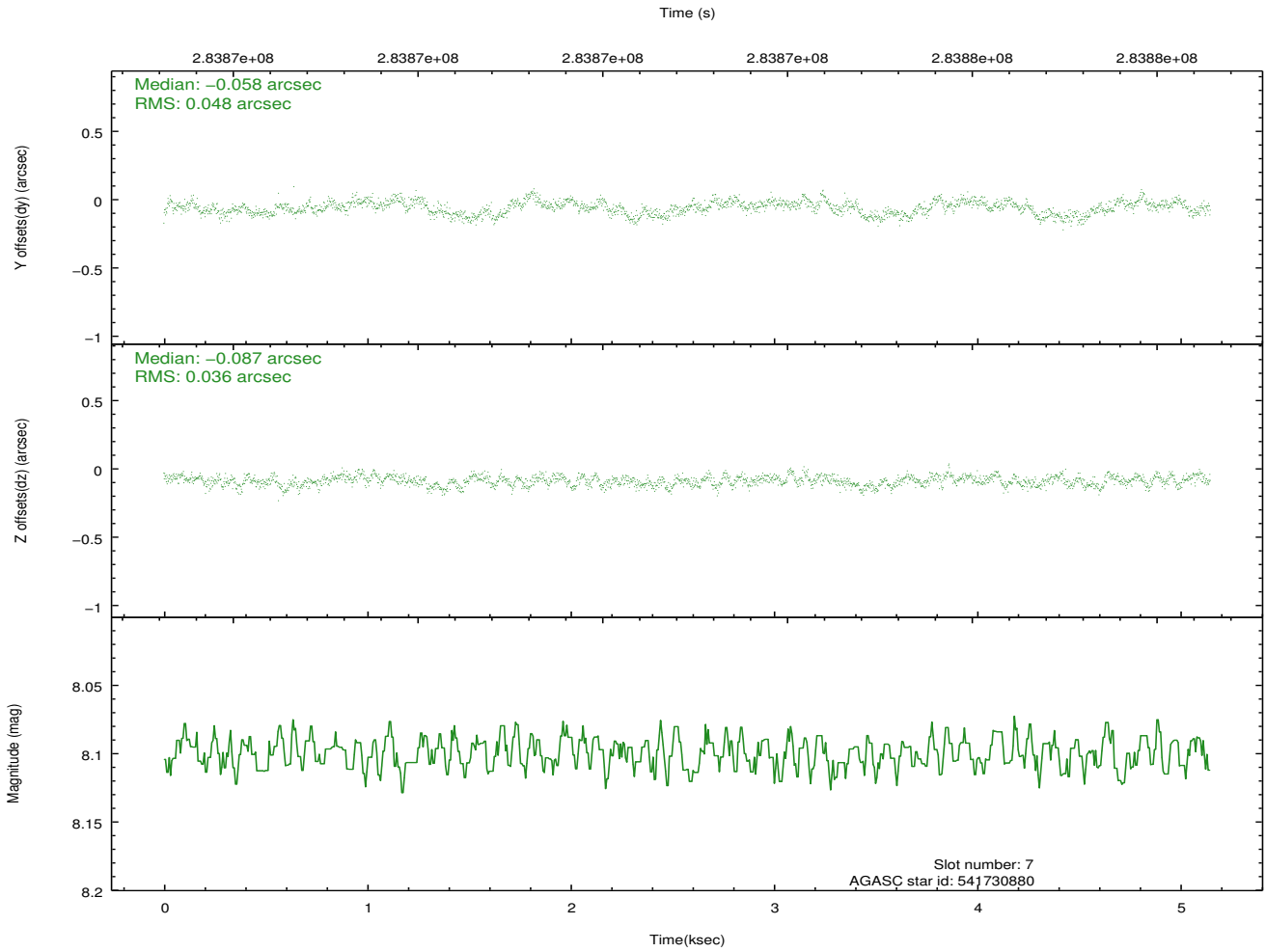
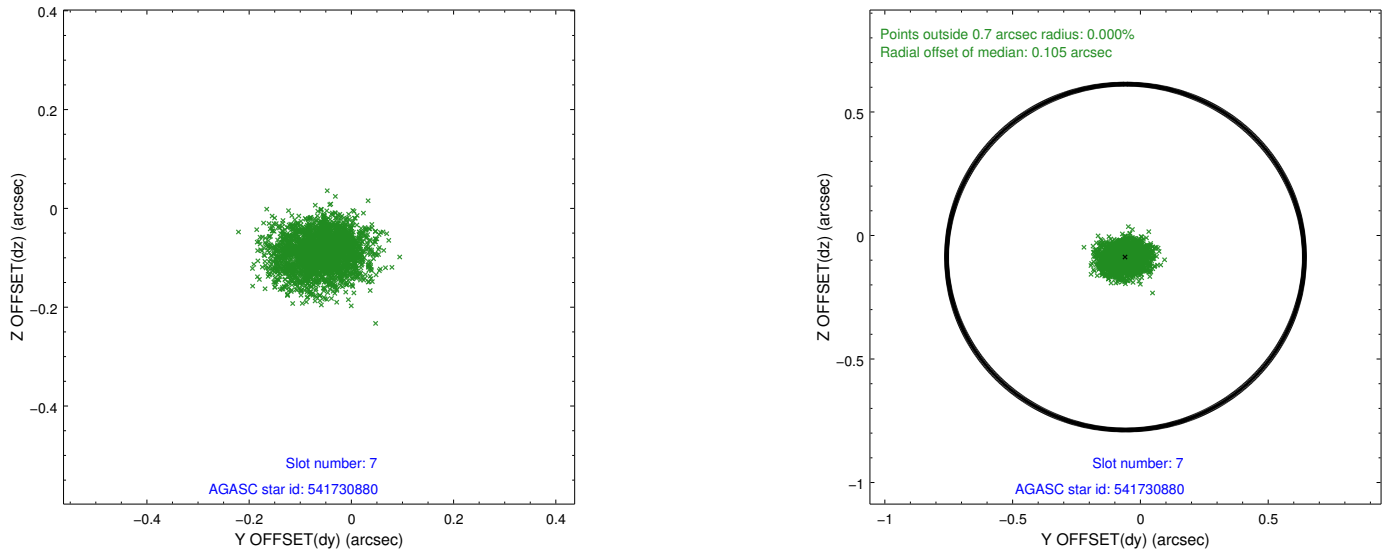
2.4.3 Slot 5



2.4.4 Slot 6

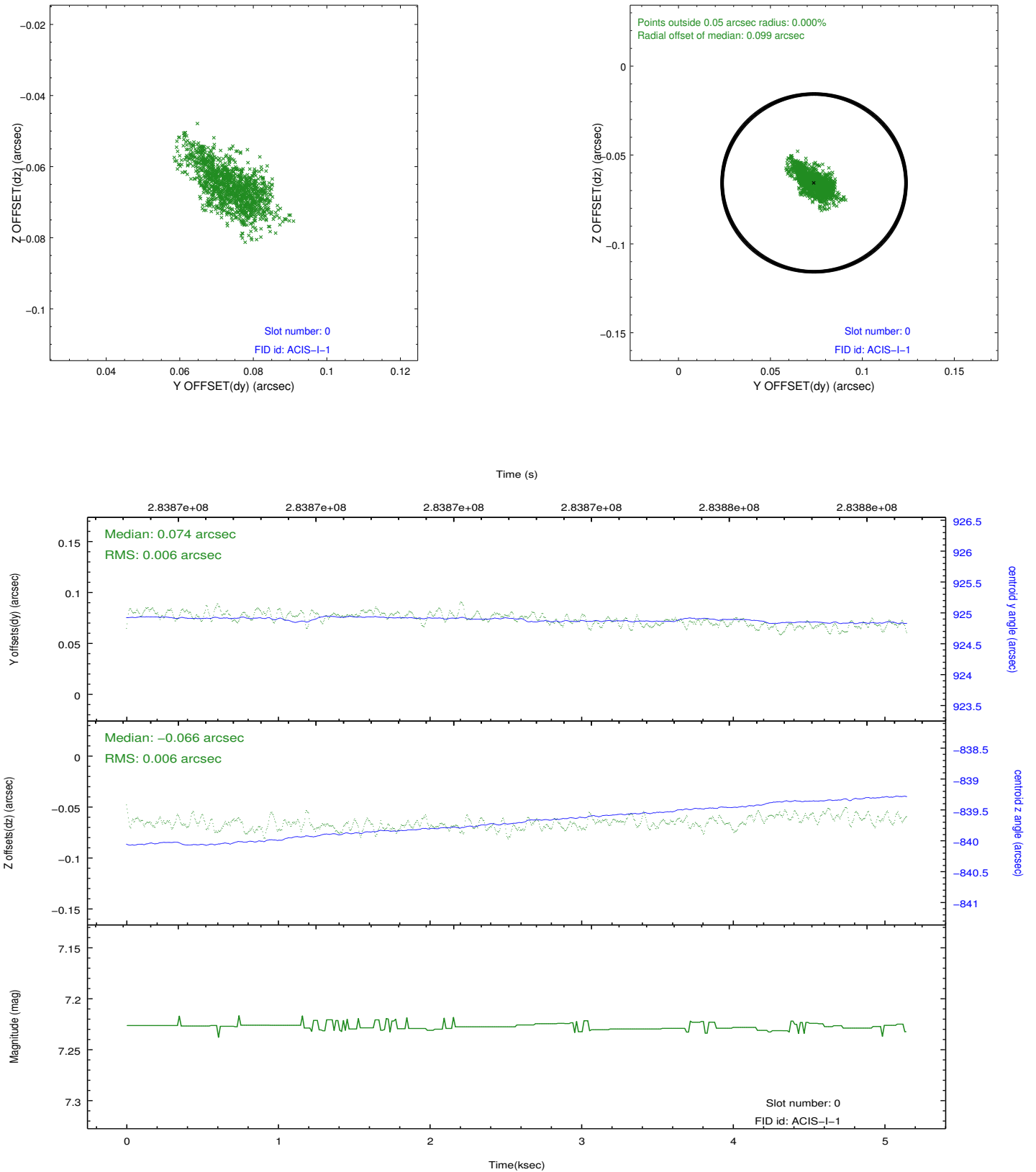


2.4.5 Slot 7

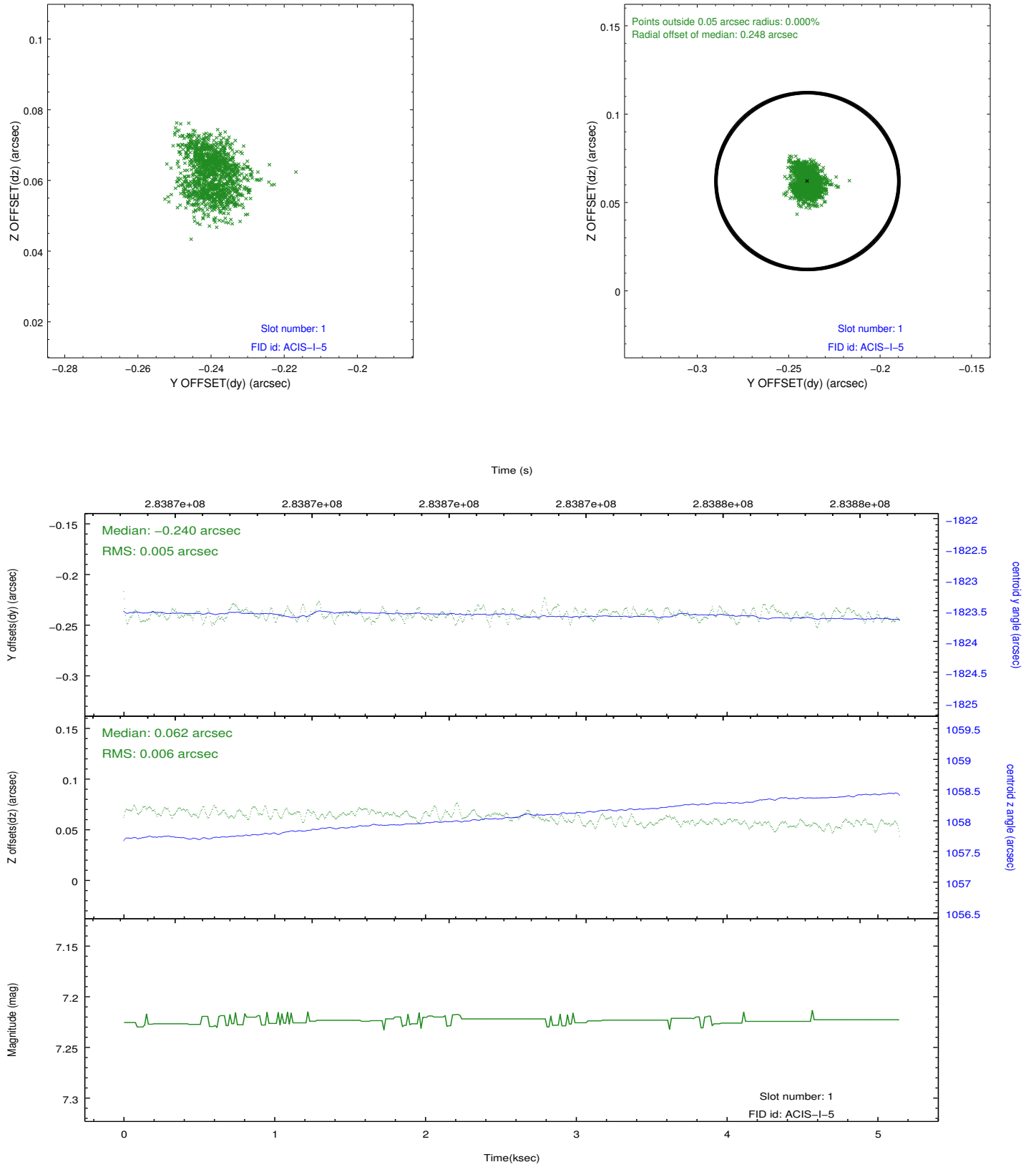


2.5 FID Slots

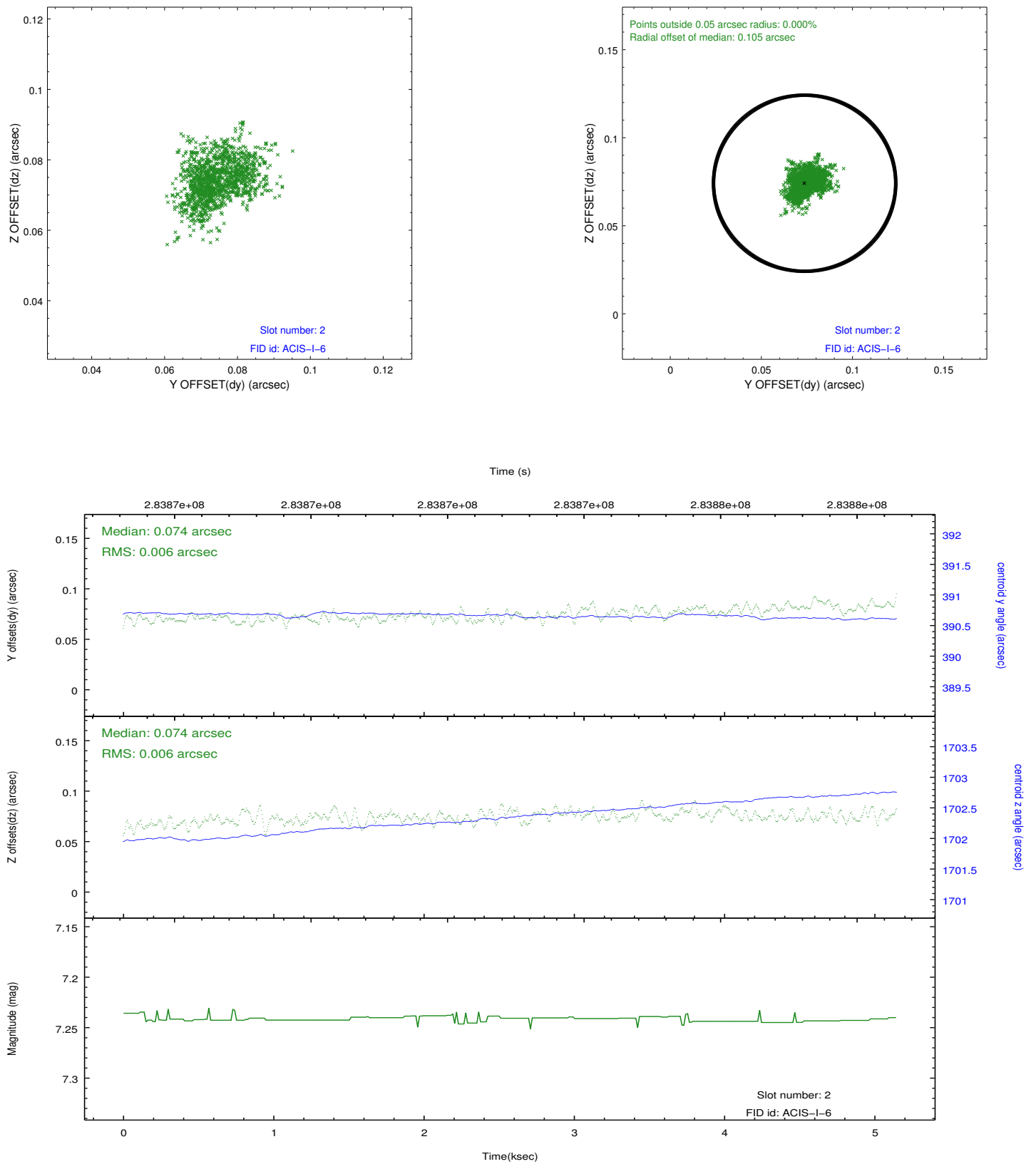
2.5.1 Slot 0



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) | 2012.04.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.14290003 |

A.2 Comments