

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7504 - L2 Version 2
Chandra X-Ray Center

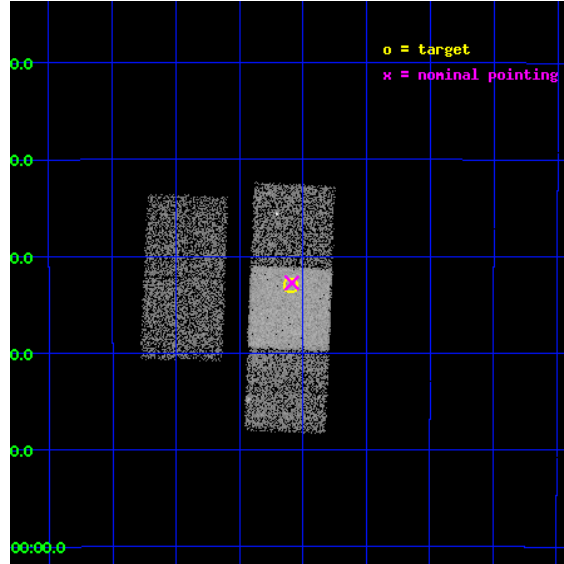
L2 Processing Date : May 9 2012

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1 Front

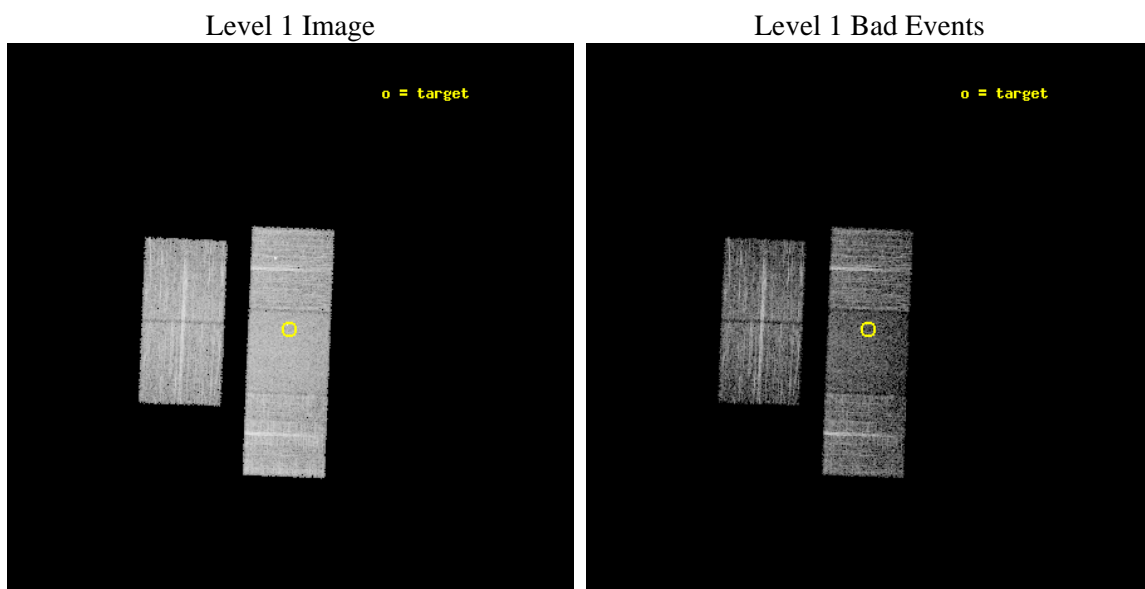
| | | |
|----------|---|---|
| seq_num | 400614 | Sequence number |
| obs_id | 7504 | Observation id |
| title | Supergiant Fast X-ray Transients: New Candidates and Characterization of Quiescence | Proposal title |
| observer | Prof. David Smith | Principal investigator |
| object | AX J1749.1-2733 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 267.275 | Observer's specified target RA [deg] |
| dec_targ | -27.55 | Observer's specified target Dec [deg] |
| ra_nom | 267.27199605935 | Nominal RA [deg] |
| dec_nom | -27.545962532523 | Nominal Dec [deg] |
| roll_nom | 92.301313451673 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5155.300039649 | Sum of GTIs [s] |
| livetime | 5087.9422493543 | Livetime [s] |
| ontime2 | 5155.300039649 | Sum of GTIs [s] |
| ontime3 | 5152.1590594053 | Sum of GTIs [s] |
| ontime6 | 5155.300039649 | Sum of GTIs [s] |
| ontime7 | 5155.300039649 | Sum of GTIs [s] |
| ontime8 | 5155.300039649 | Sum of GTIs [s] |
| l2events | 38404 | Number of level 2 events |



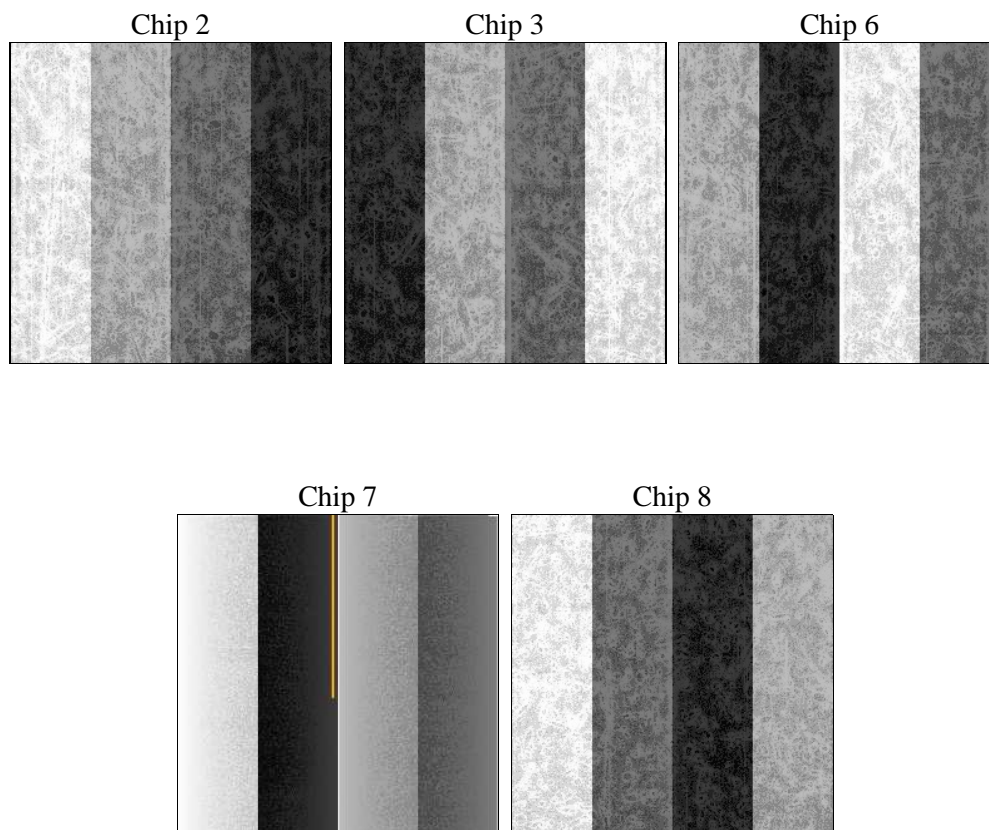
2 OBI

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 | 8.4.4 | Processing system revision | ontime | 5155.300039649 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 5155.300039649 | Sum of GTIs [s] |
| date | 2012-05-09T04:14:33 | Date and time of file creation | ontime3 | 5152.1590594053 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 5155.300039649 | Sum of GTIs [s] |
| | | | ontime7 | 5155.300039649 | Sum of GTIs [s] |
| | | | ontime8 | 5155.300039649 | Sum of GTIs [s] |
| | | | l1events | 245866 | Number of level 1 events |

2.1.4 Events

| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 46465 | 44683 | 48104 | 50411 | 56203 |
| rejected events | 42051 | 40391 | 42874 | 28489 | 42987 |
| rejected % | 90% | 90% | 89% | 56% | 76% |

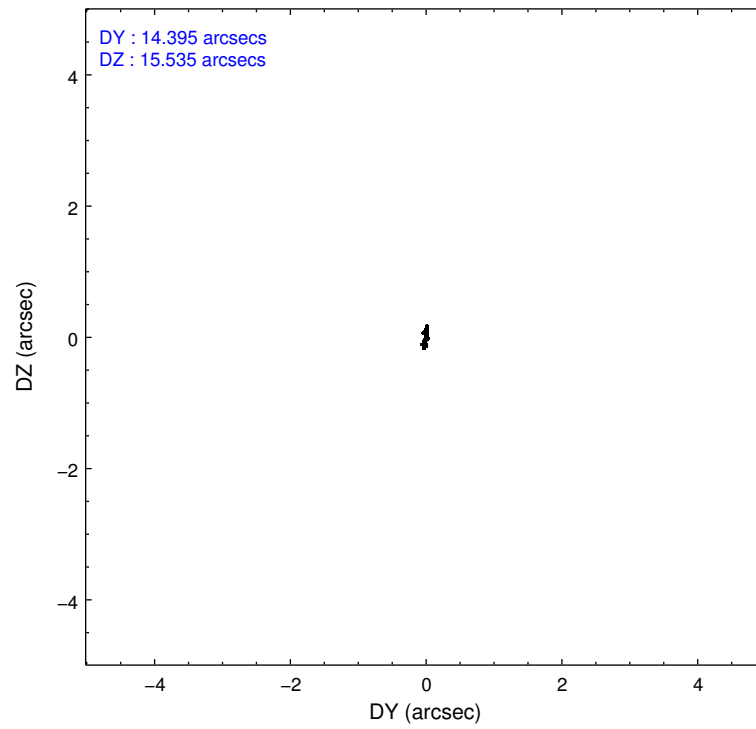
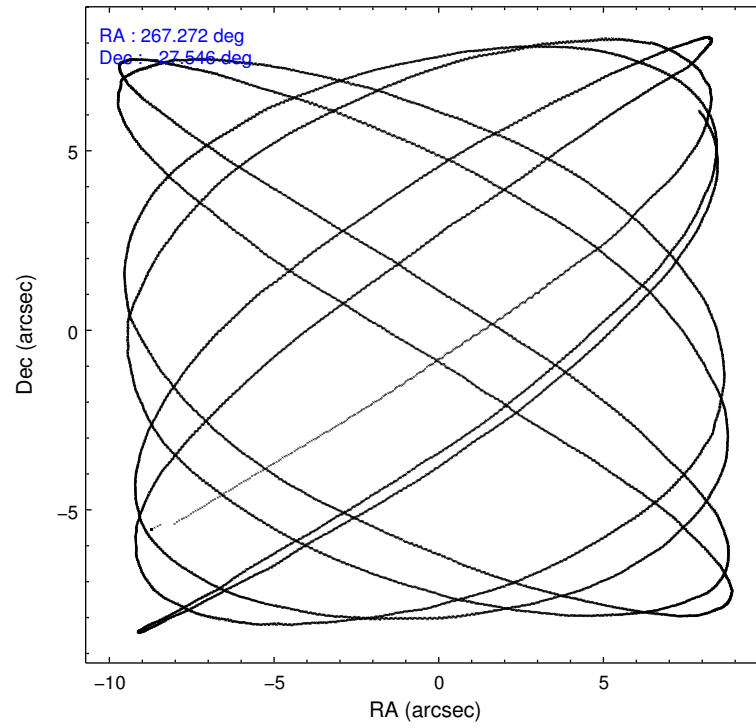
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 1788 | 1698 | 2523 | 2330 | 4880 |
| | 3% | 3% | 5% | 4% | 8% |
| grade 1 events | 31 | 21 | 56 | 61 | 68 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1078 | 987 | 1216 | 4933 | 3241 |
| | 2% | 2% | 2% | 9% | 5% |
| grade 3 events | 493 | 526 | 567 | 2154 | 1504 |
| | 1% | 1% | 1% | 4% | 2% |
| grade 4 events | 497 | 461 | 592 | 2186 | 1407 |
| | 1% | 1% | 1% | 4% | 2% |
| grade 5 events | 1462 | 1790 | 1890 | 5283 | 2533 |
| | 3% | 4% | 3% | 10% | 4% |
| grade 6 events | 837 | 870 | 1108 | 12043 | 3509 |
| | 1% | 1% | 2% | 23% | 6% |
| grade 7 events | 40279 | 38330 | 40152 | 21421 | 39061 |
| | 86% | 85% | 83% | 42% | 69% |

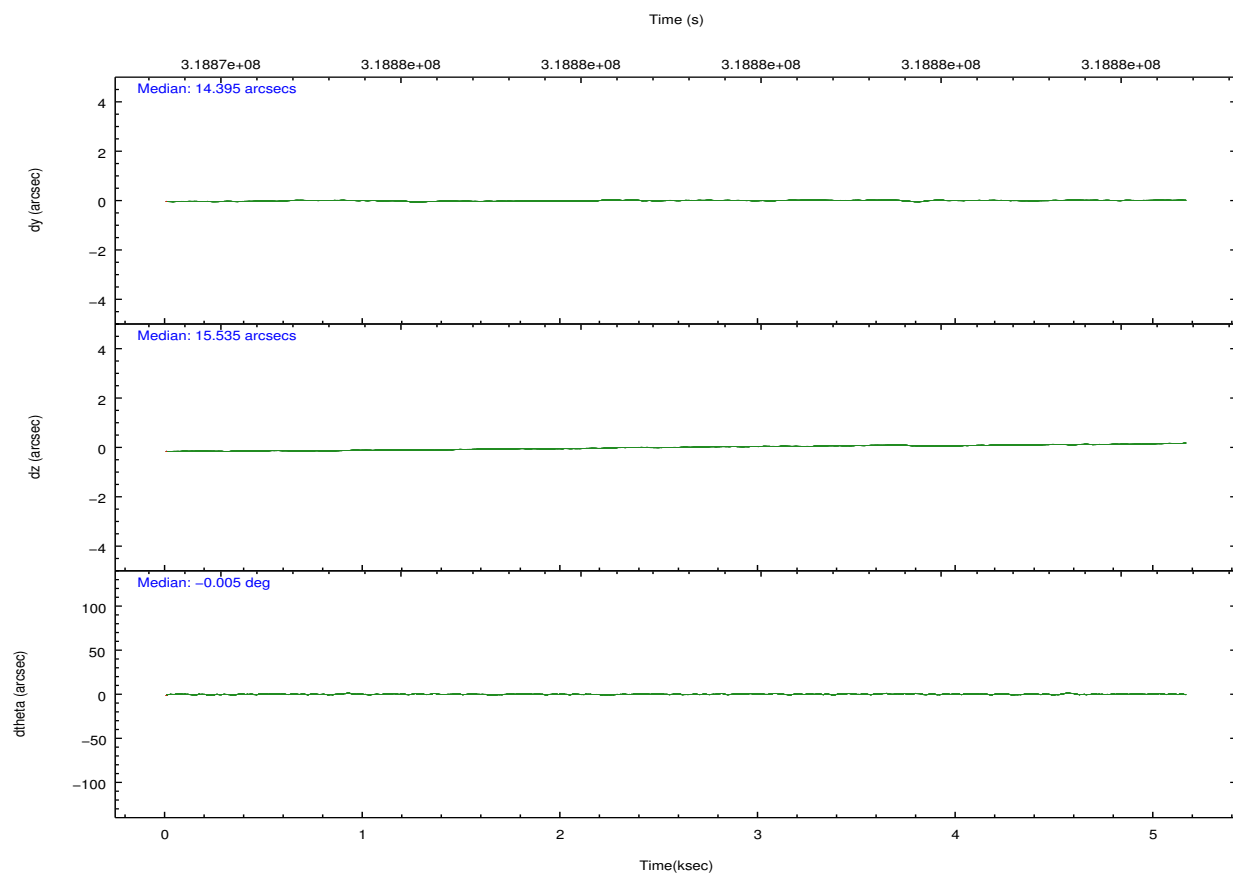
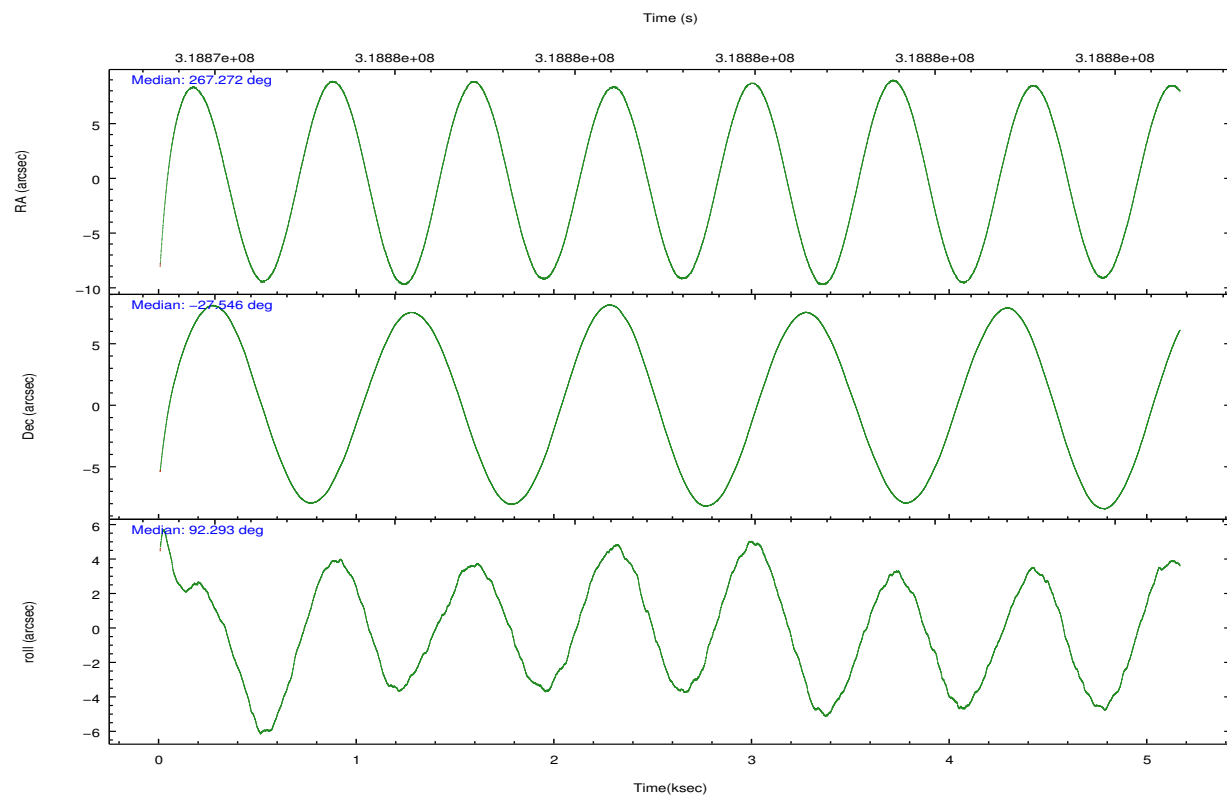
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-23678 | ACIS-23678 |
| Grating | NONE | NONE |
| Data mode | VFAINT | VFAINT |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 267.288779 | 267.271996059352 |
| [deg] Pointing Dec | -27.568884 | -27.54596253252273 |
| [deg] Pointing Roll | 92.152449 | 92.30131345167337 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 |
| [mm] SIM defocus | 0 | 0.001444936568705701 |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 |
| [s] Observation start time (MET) | 318874120.184000 | 318872979.05229 |
| Observation start date | 2008-02-08T16:07:35 | 2008-02-08T15:49:39 |
| [s] Observation end time (MET) | 318879120.184000 | 318879260.7651 |
| Observation end date | 2008-02-08T17:30:55 | 2008-02-08T17:34:20 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| Number of optional ACIS chips dropped | 0 | 0 |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 0.000000 | 3.1 |

2.3 Aspect



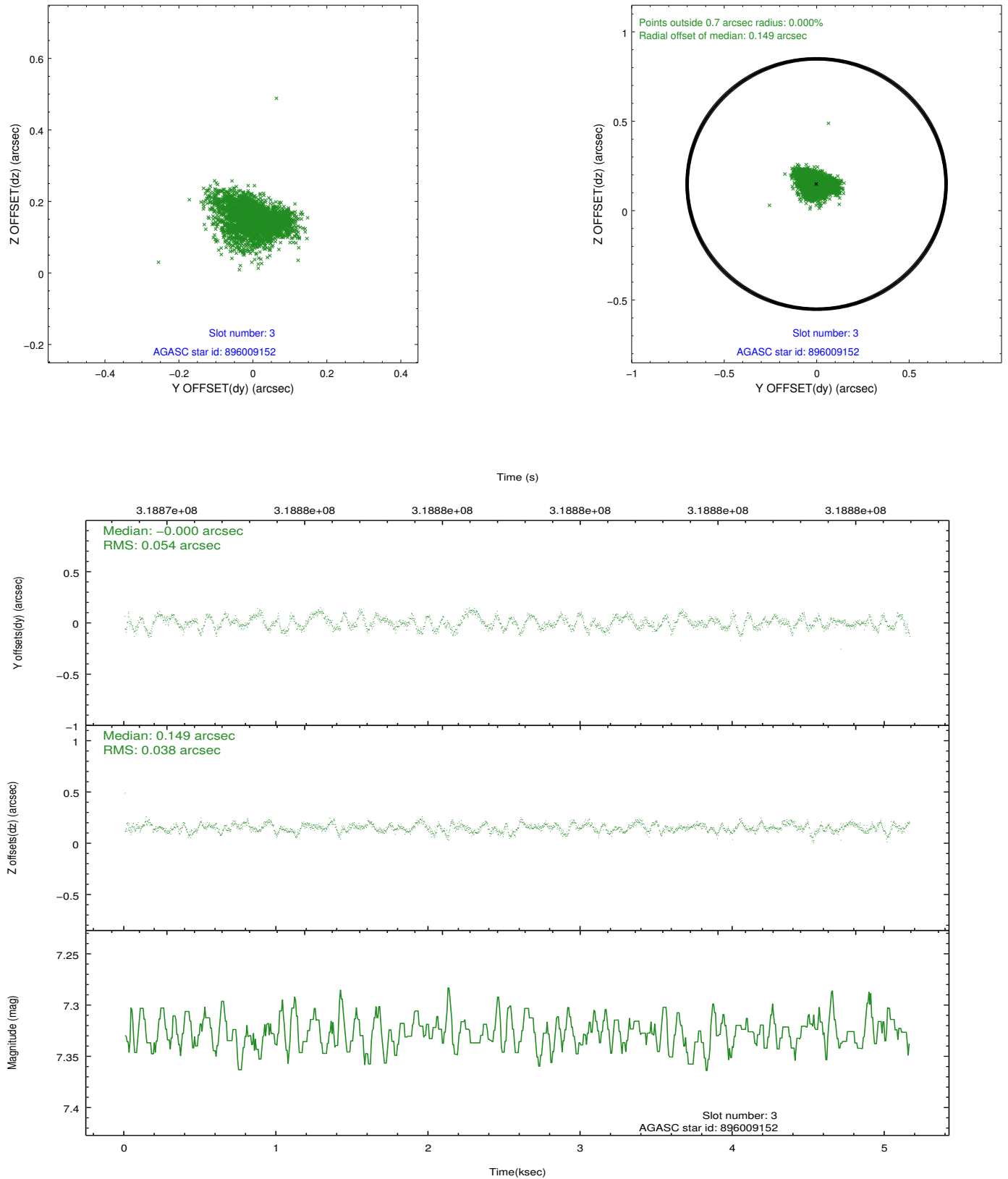


Slot Statistics

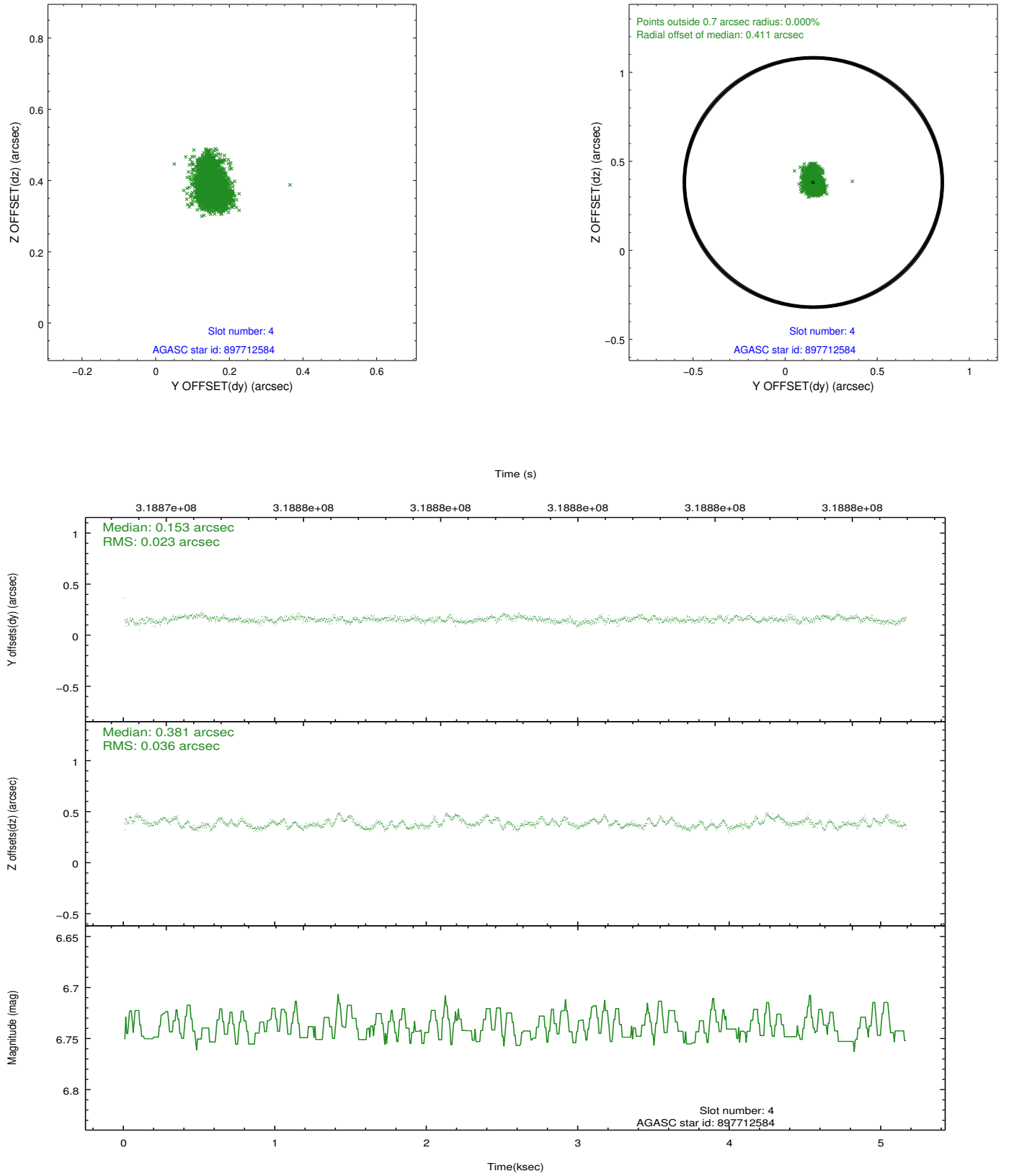
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-1 | 7.17 | 1259 | 0.024 | -0.049 | 0.010 | 0.016 | 0.000000 | 0.000000 | 928.71 | -1732.60 |
| 1 | FID | ACIS-S-4 | 7.18 | 1259 | 0.132 | 0.026 | 0.008 | 0.012 | 0.000000 | 0.000000 | 2146.87 | 170.42 |
| 2 | FID | ACIS-S-5 | 7.21 | 1259 | -0.183 | 0.035 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1818.86 | 165.34 |
| 3 | GUIDE | 896009152 | 7.33 | 2518 | -0.000 | 0.149 | 0.071 | 0.114 | 267.588100 | -27.061669 | 1787.49 | -1026.72 |
| 4 | GUIDE | 897712584 | 6.74 | 2518 | 0.153 | 0.381 | 0.045 | 0.075 | 268.003029 | -28.022394 | -1722.02 | -2206.80 |
| 5 | GUIDE | 896014528 | 7.67 | 2518 | -0.199 | -0.387 | 0.064 | 0.099 | 266.628858 | -27.438607 | 541.28 | 2088.58 |
| 6 | GUIDE | 896012968 | 8.69 | 2518 | 0.169 | -0.335 | 0.082 | 0.128 | 266.634547 | -27.600471 | -40.48 | 2090.91 |
| 7 | GUIDE | 897717296 | 8.27 | 2513 | -0.126 | 0.195 | 0.087 | 0.138 | 267.921819 | -26.875322 | 2414.00 | -2123.51 |

2.4 Star Slots

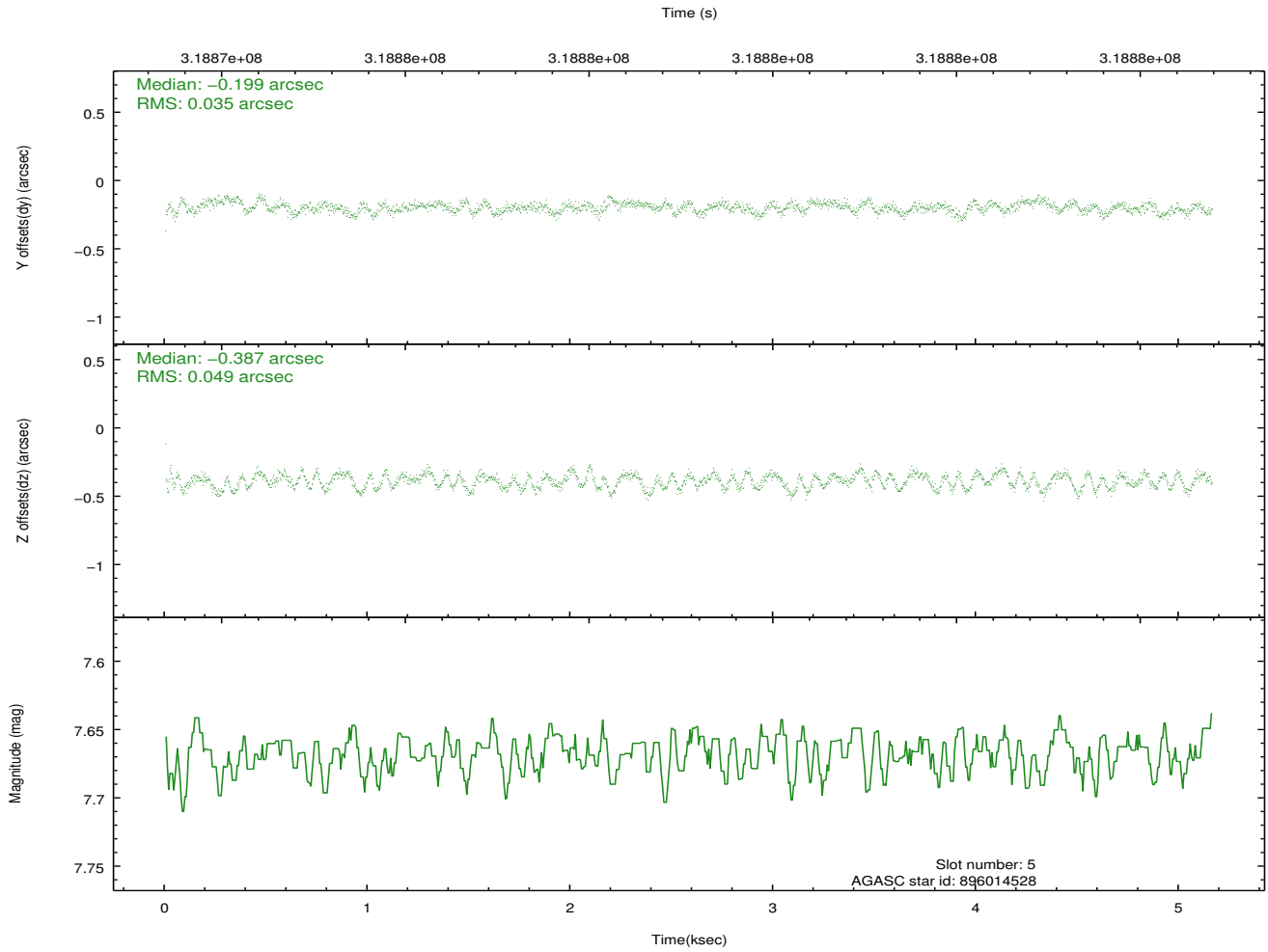
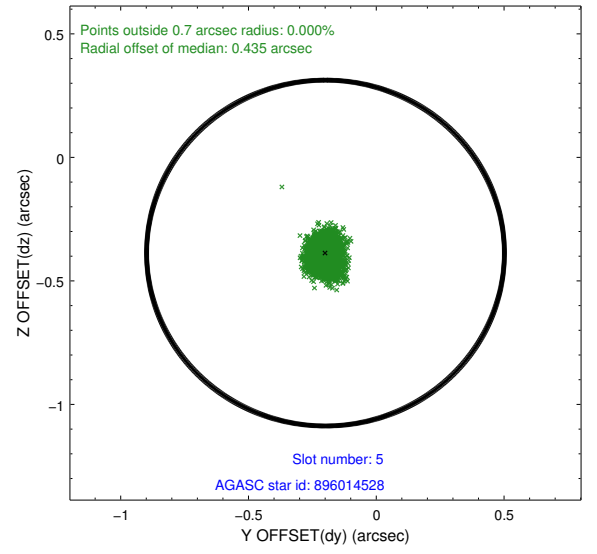
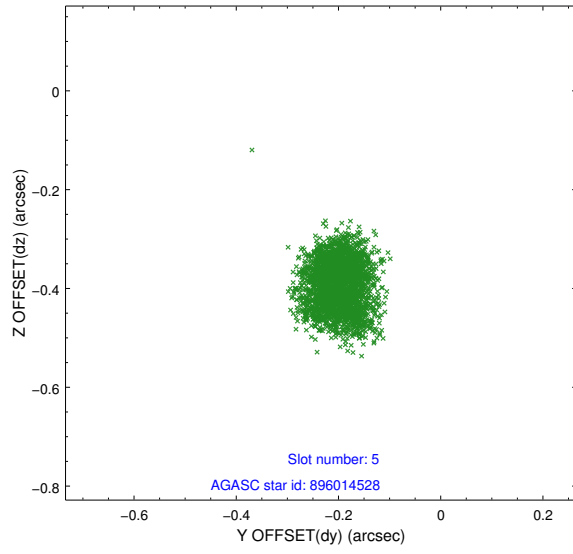
2.4.1 Slot 3



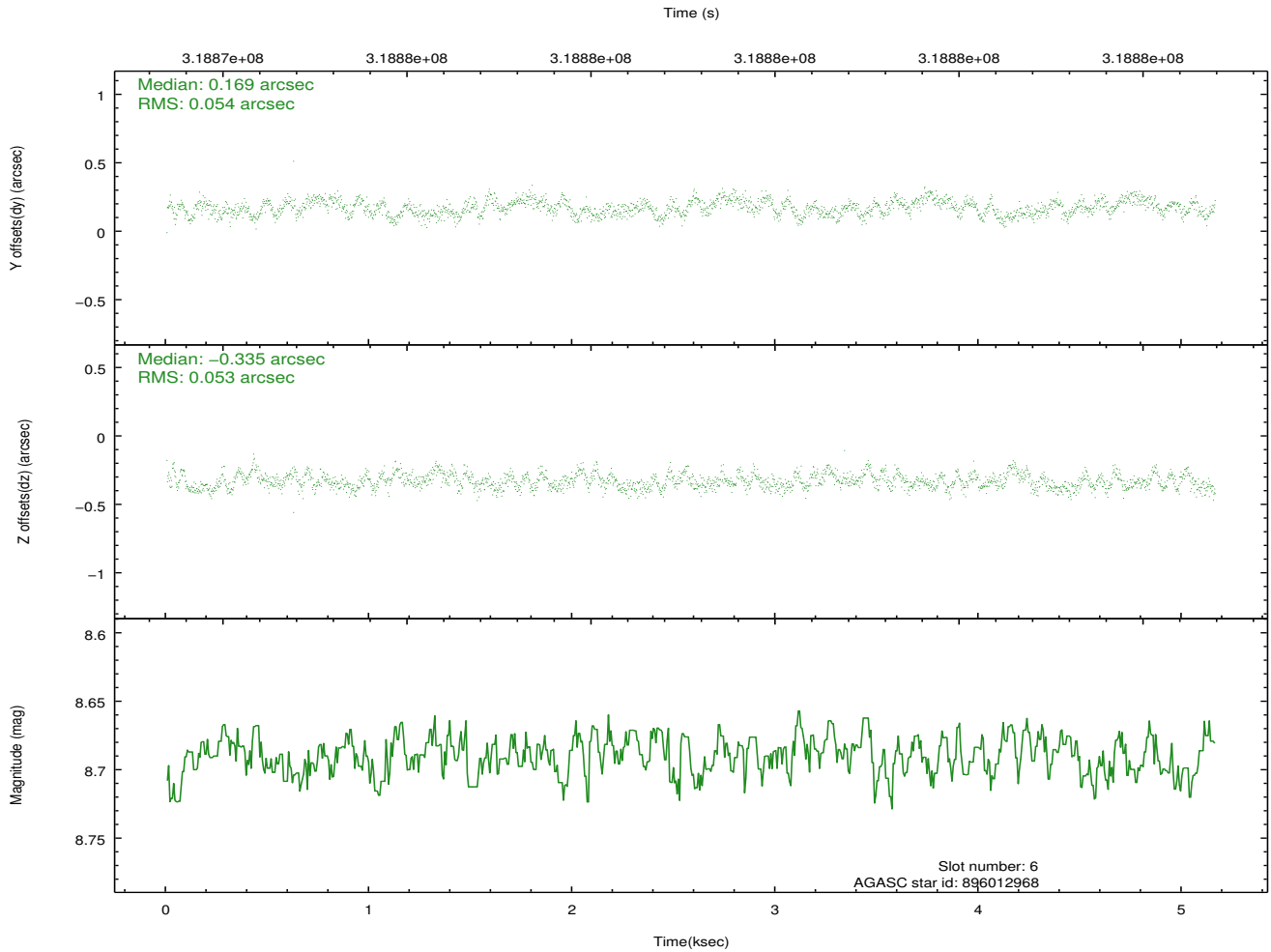
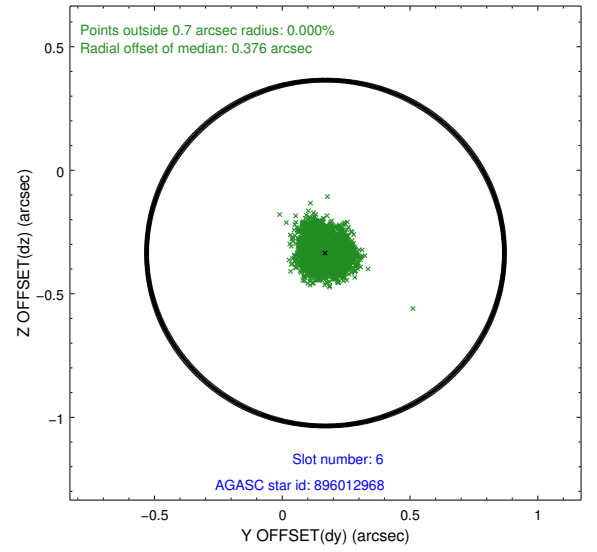
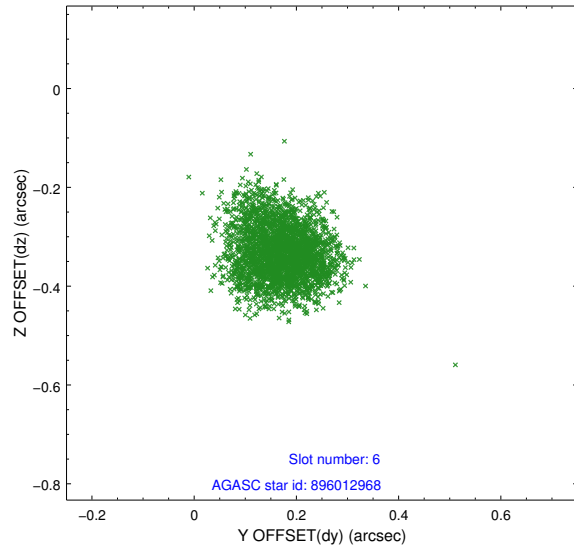
2.4.2 Slot 4



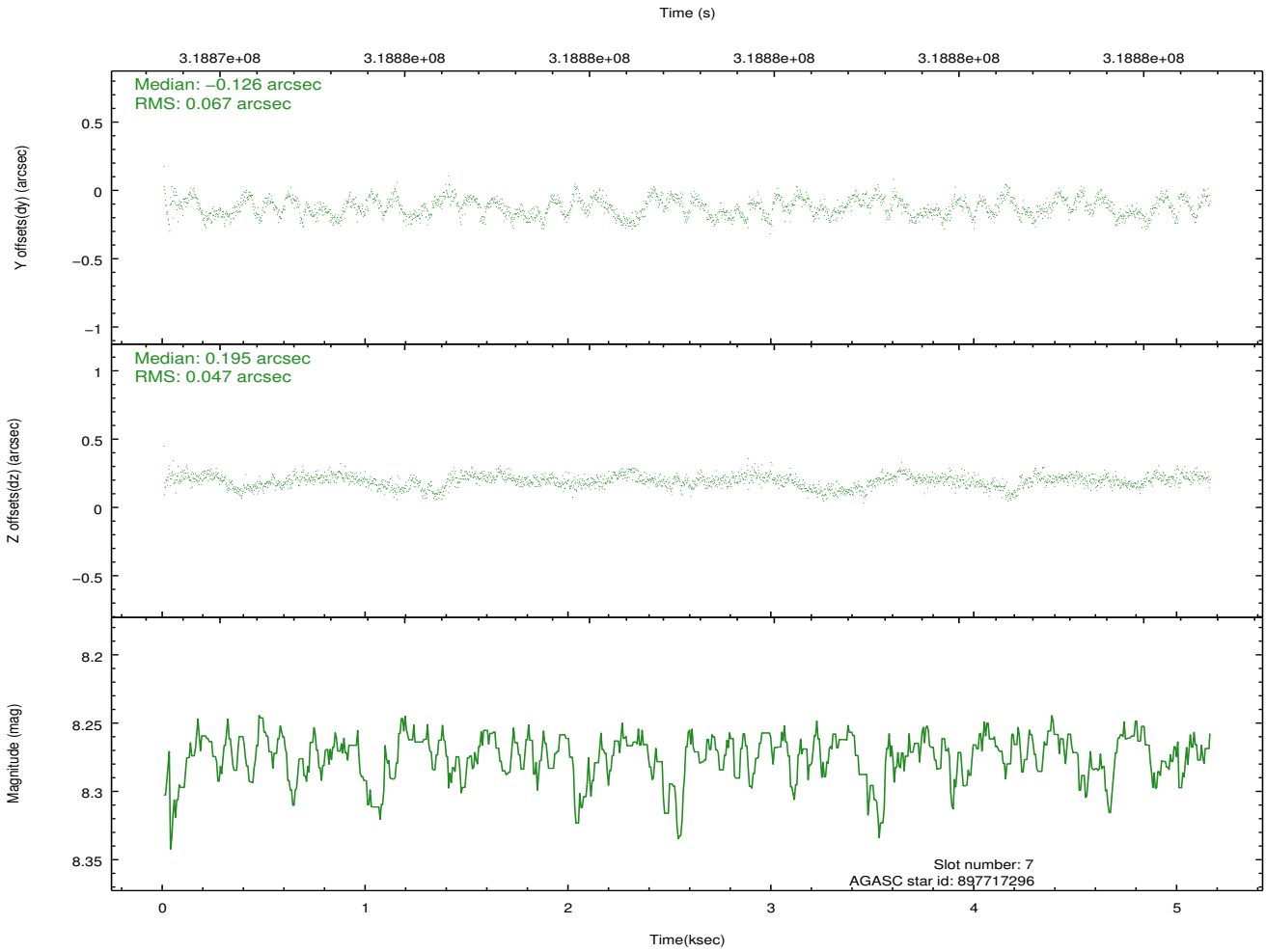
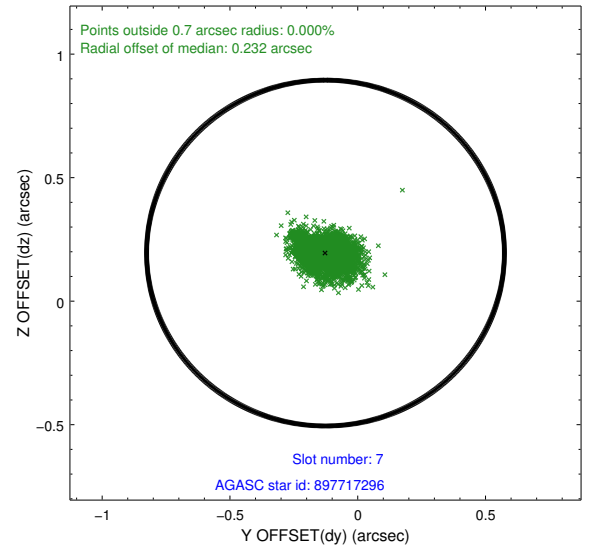
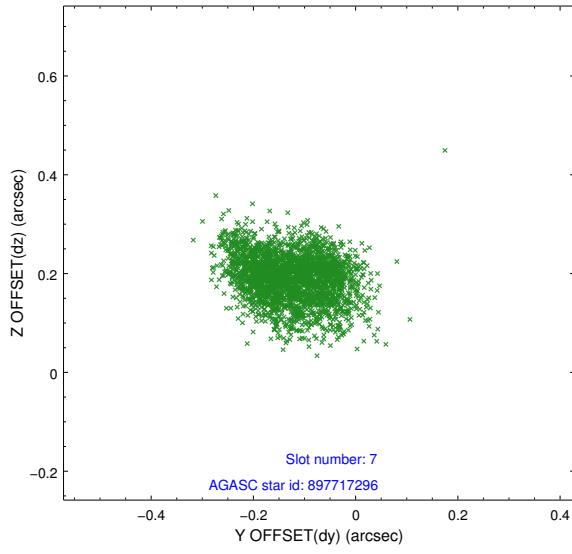
2.4.3 Slot 5



2.4.4 Slot 6

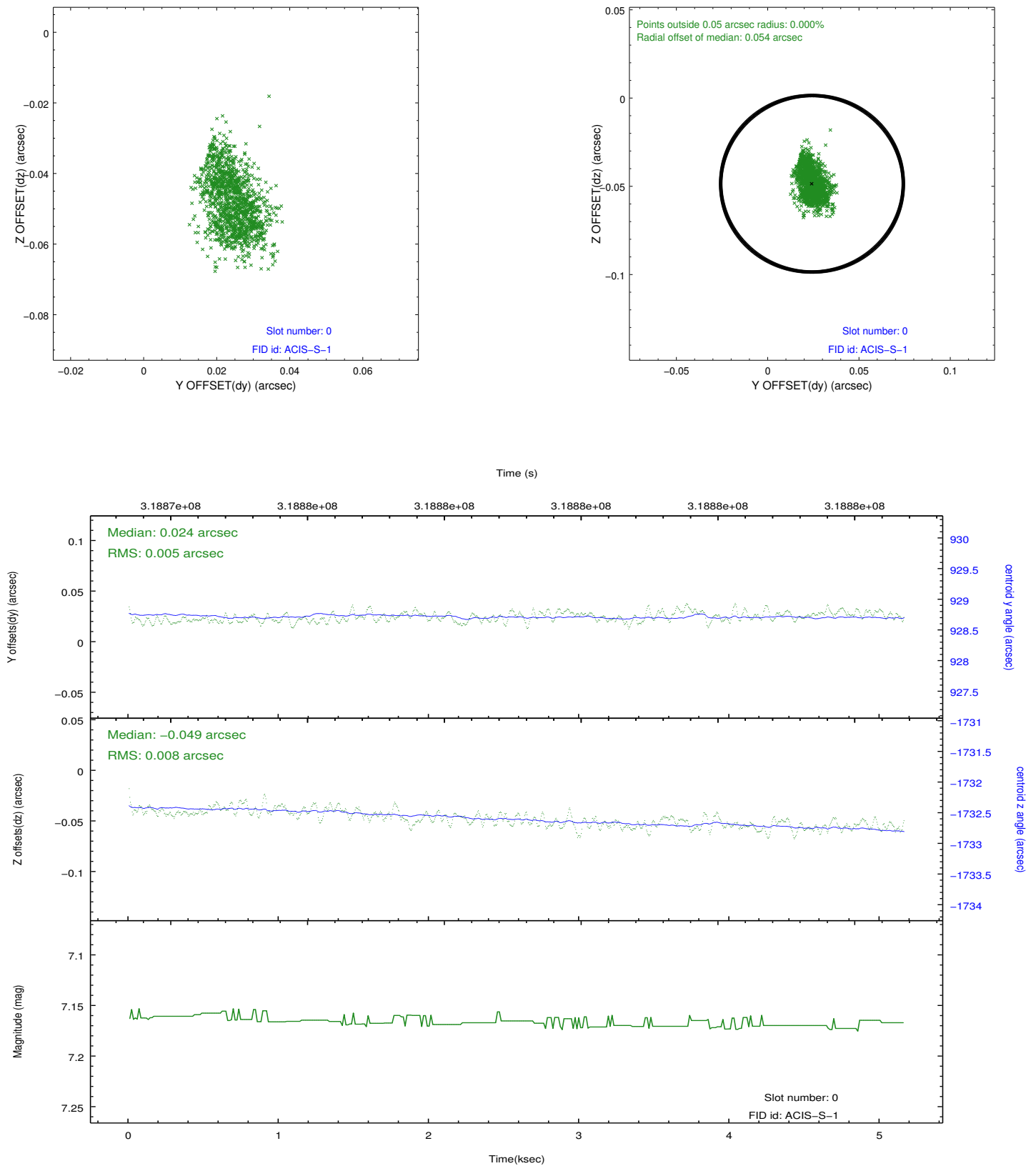


2.4.5 Slot 7

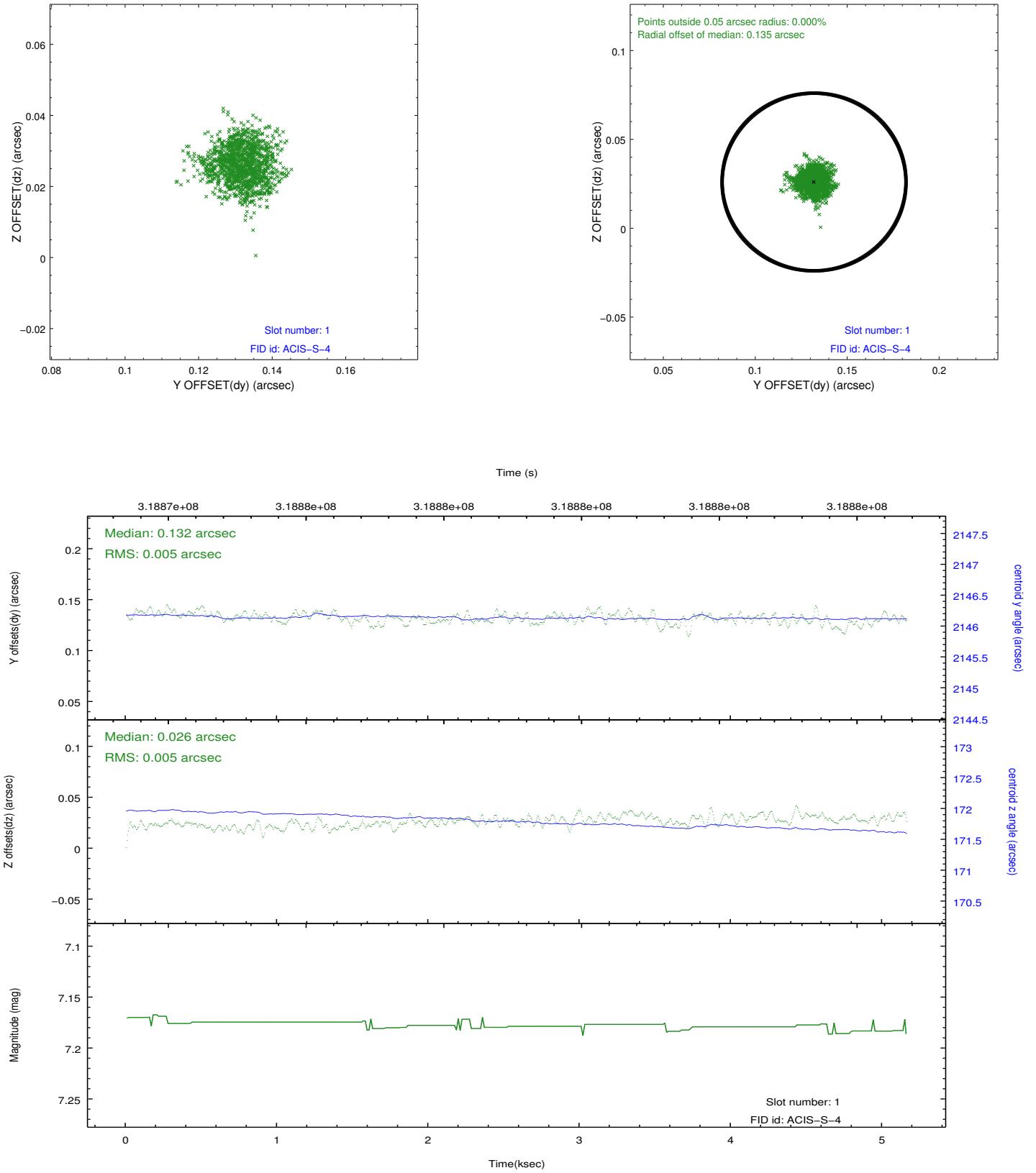


2.5 FID Slots

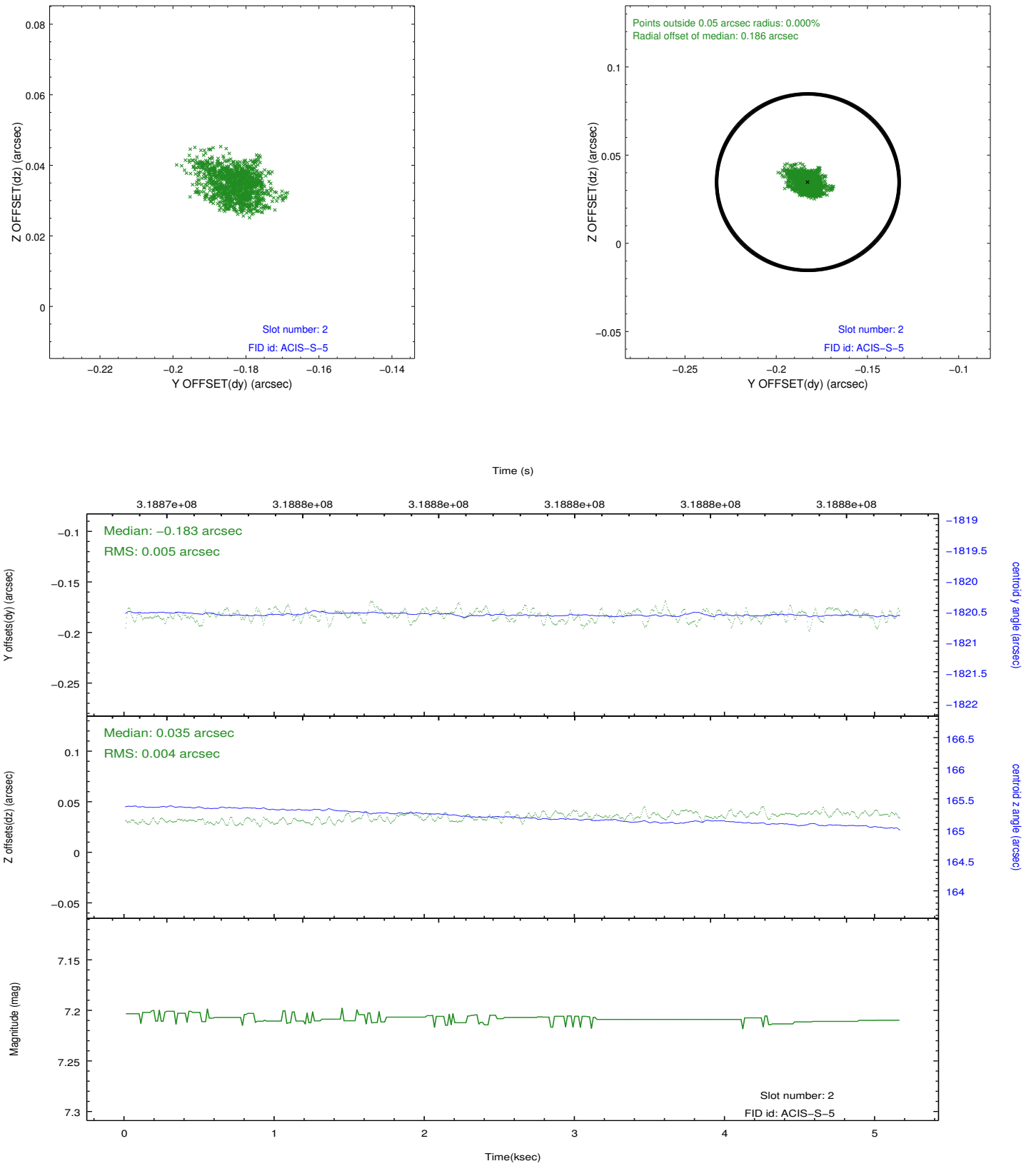
2.5.1 Slot 0



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) | 2012.05.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.15530003 |

A.2 Comments