

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5176 - L2 Version 3
Chandra X-Ray Center

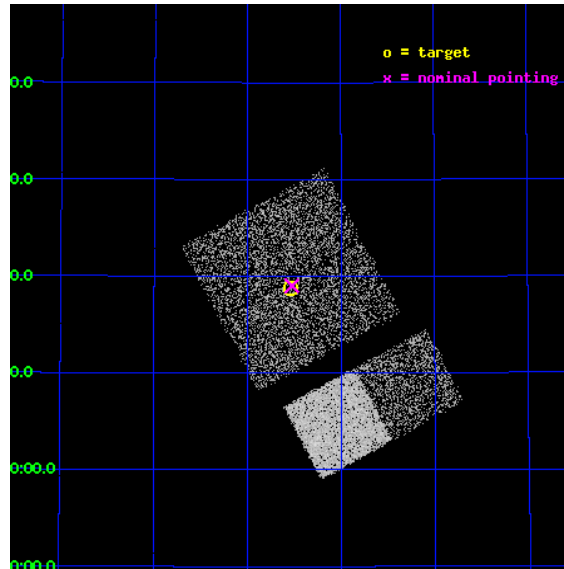
L2 Processing Date : Nov 13 2012

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1 Front

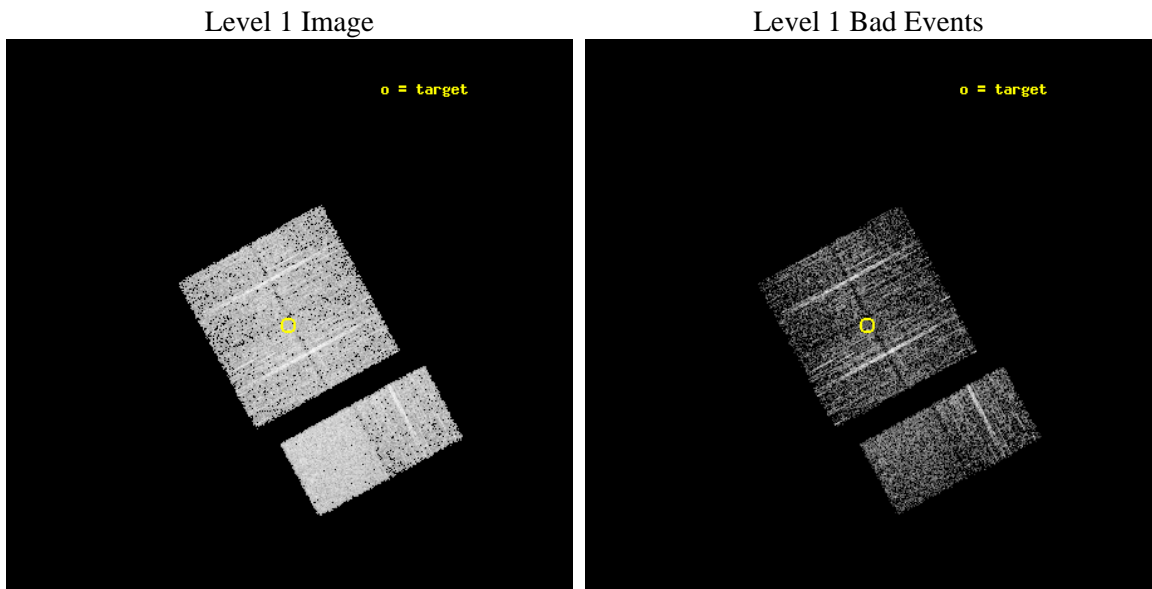
| | | |
|----------|---|---|
| seq_num | 200284 | Sequence number |
| obs_id | 5176 | Observation id |
| title | Alternate - Search for beta Pic analogs extension | Proposal title |
| observer | Professor Gordon Garmire | Principal investigator |
| object | eta UMa | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 206.885833 | Observer's specified target RA [deg] |
| dec_targ | 49.313333 | Observer's specified target Dec [deg] |
| ra_nom | 206.88154756365 | Nominal RA [deg] |
| dec_nom | 49.316869257864 | Nominal Dec [deg] |
| roll_nom | 151.69294327032 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 2803.1999895573 | Sum of GTIs [s] |
| livetime | 2767.7041834051 | Livetime [s] |
| ontime0 | 2803.1999895573 | Sum of GTIs [s] |
| ontime1 | 2803.1999895573 | Sum of GTIs [s] |
| ontime2 | 2803.1999895573 | Sum of GTIs [s] |
| ontime3 | 2803.1999895573 | Sum of GTIs [s] |
| ontime6 | 2803.1999895573 | Sum of GTIs [s] |
| ontime7 | 2803.1999895573 | Sum of GTIs [s] |
| l2events | 20114 | Number of level 2 events |



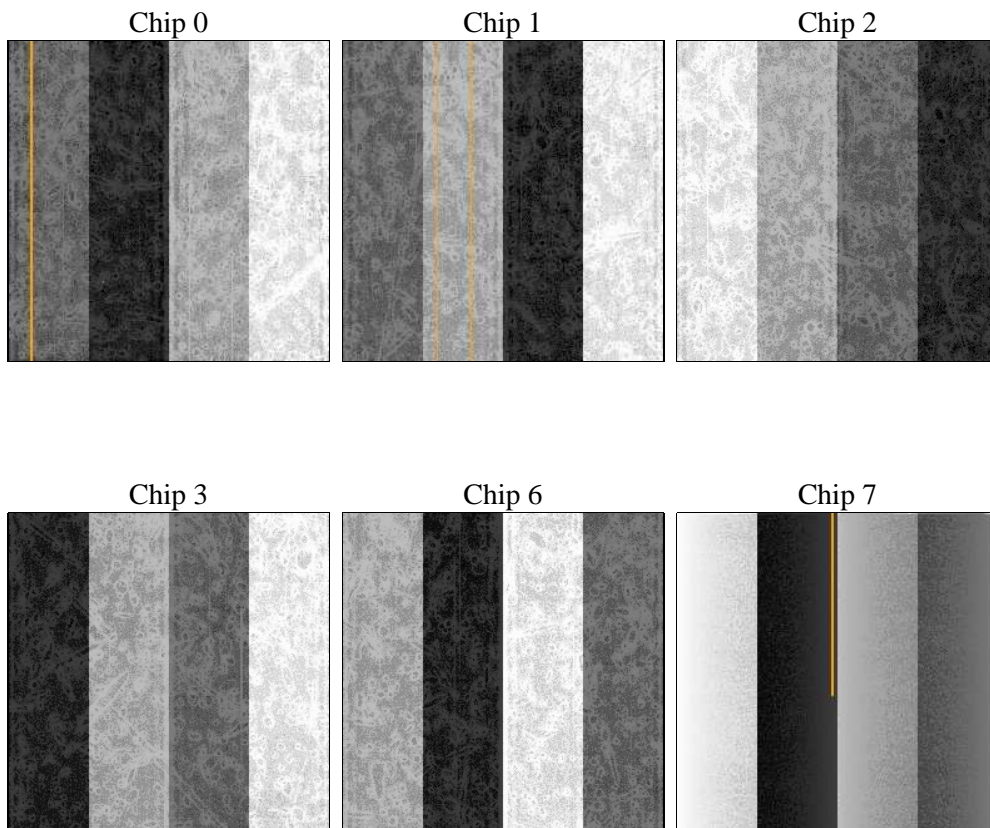
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 3000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 2803.1999895573 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 2803.1999895573 | Sum of GTIs [s] |
| date | 2012-11-13T23:26:37 | Date and time of file creation | ontime1 | 2803.1999895573 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 2803.1999895573 | Sum of GTIs [s] |
| | | | ontime3 | 2803.1999895573 | Sum of GTIs [s] |
| | | | ontime6 | 2803.1999895573 | Sum of GTIs [s] |
| | | | ontime7 | 2803.1999895573 | Sum of GTIs [s] |
| | | | l1events | 115348 | Number of level 1 events |

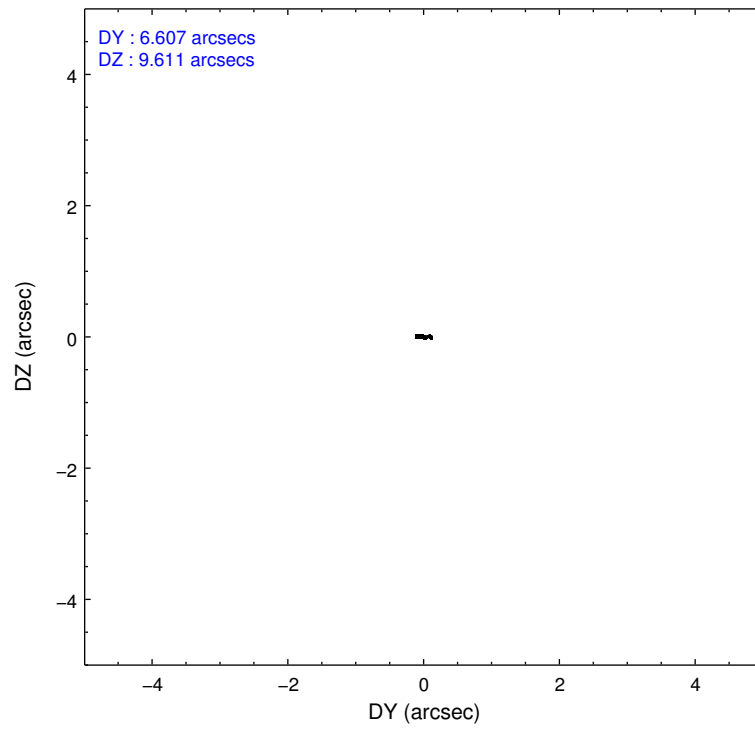
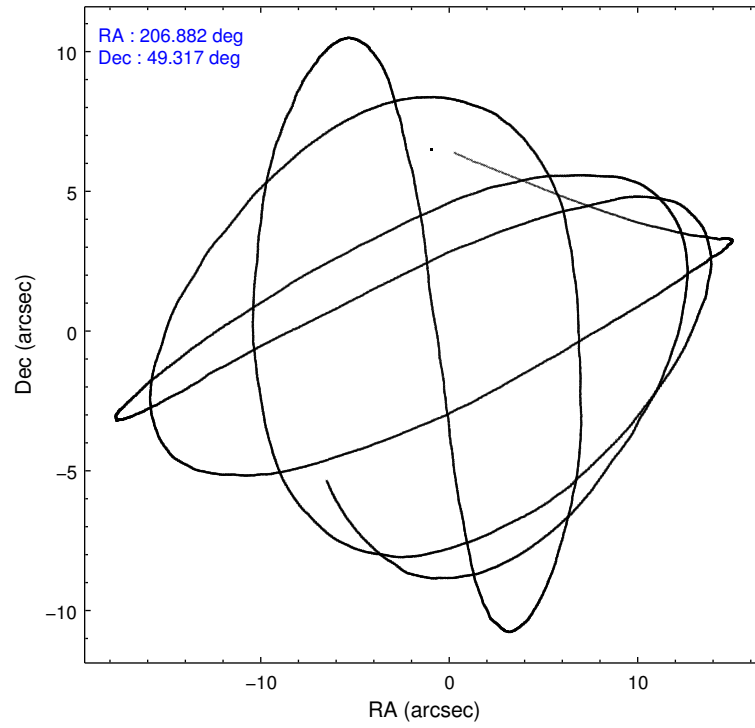
2.1.4 Events

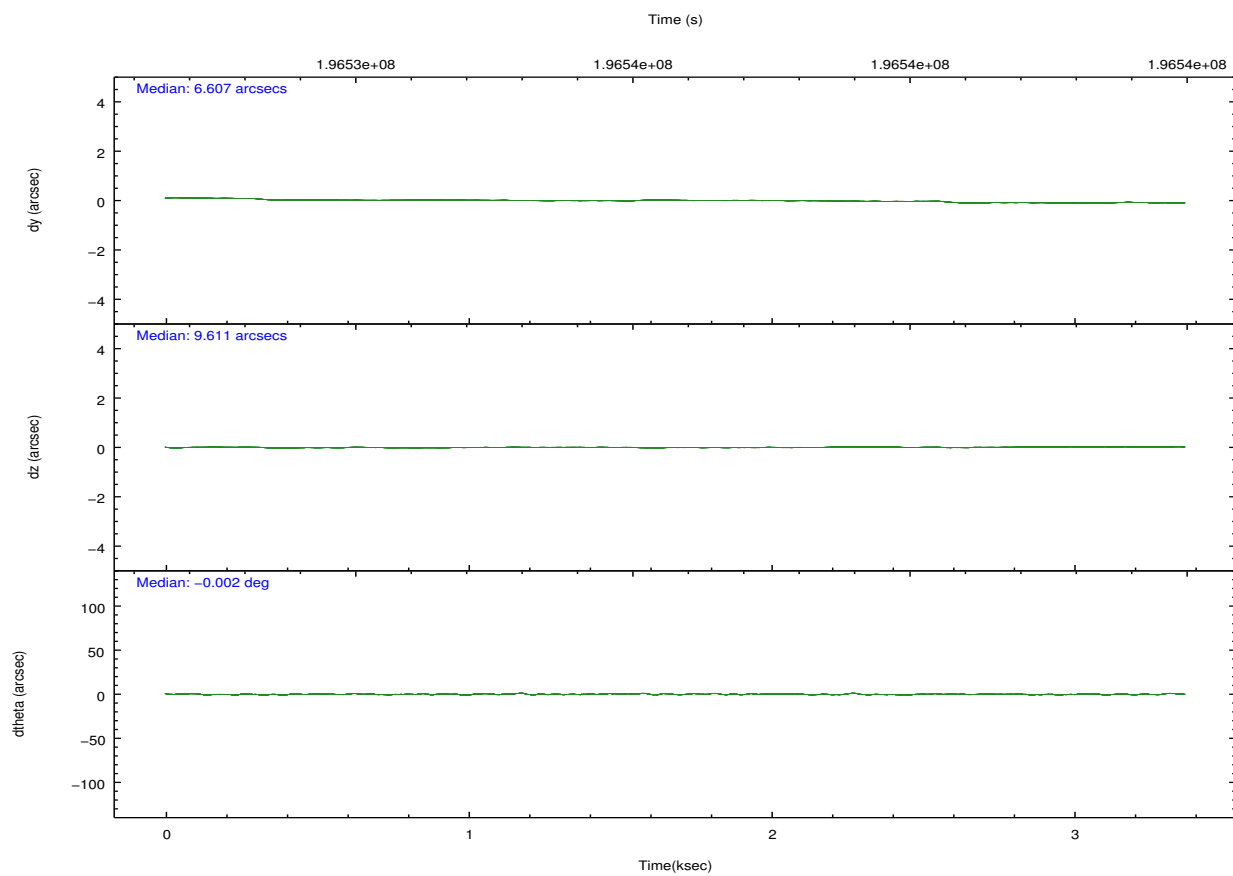
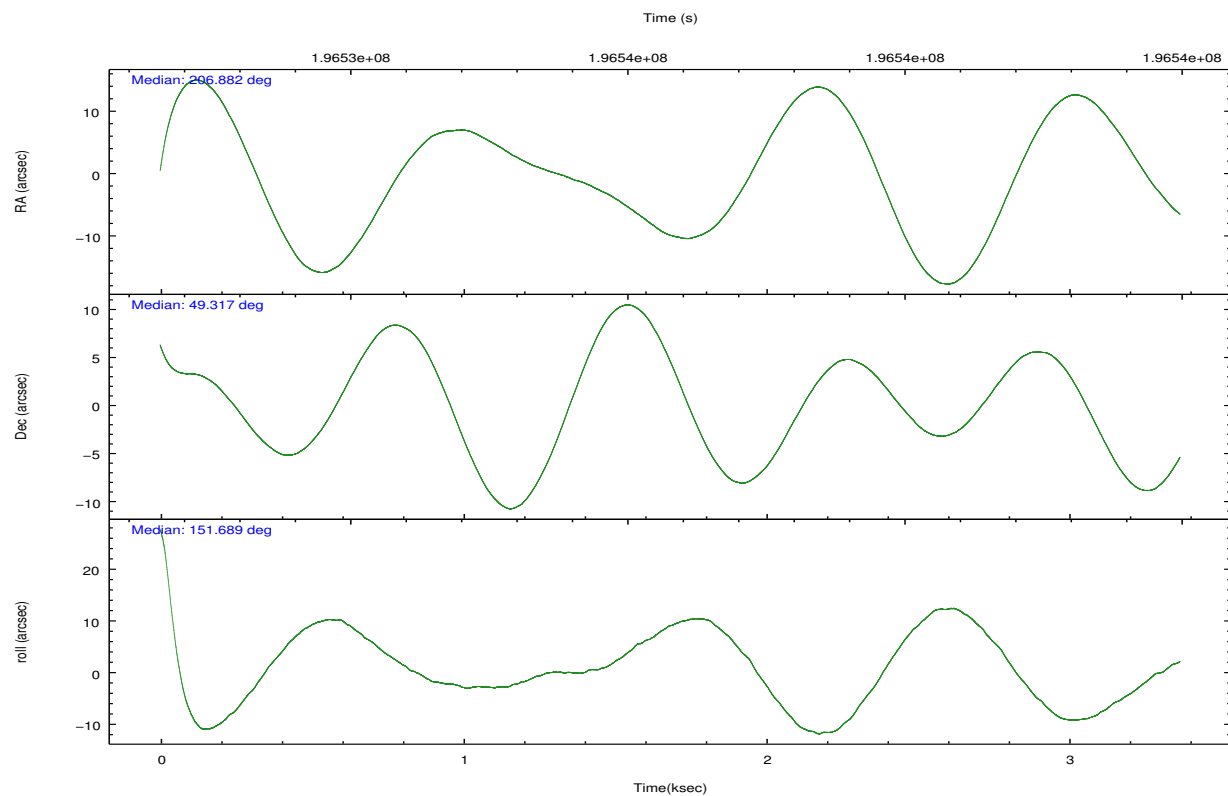
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 17125 | 16557 | 18040 | 18994 | 18655 | 25977 | grade 0 events | 940 | 883 | 922 | 1038 | 852 | 981 |
| rejected events | 14840 | 14274 | 15933 | 16716 | 16443 | 15186 | | 5% | 5% | 5% | 5% | 4% | 3% |
| rejected % | 86% | 86% | 88% | 88% | 88% | 58% | grade 1 events | 8 | 6 | 12 | 15 | 8 | 21 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 479 | 474 | 420 | 412 | 435 | 2030 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 7% |
| | | | | | | | grade 3 events | 206 | 232 | 191 | 226 | 206 | 943 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 235 | 241 | 195 | 220 | 212 | 919 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 808 | 791 | 772 | 887 | 891 | 2436 |
| | | | | | | | | 4% | 4% | 4% | 4% | 4% | 9% |
| | | | | | | | grade 6 events | 432 | 461 | 384 | 389 | 514 | 5945 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 22% |
| | | | | | | | grade 7 events | 14017 | 13469 | 15144 | 15807 | 15537 | 12702 |
| | | | | | | | | 81% | 81% | 83% | 83% | 83% | 48% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 206.923366 | 206.8815475636548 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 49.317859 | 49.31686925786425 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 151.452424 | 151.6929432703167 | [s] Primary exposure time | 0.000000 | 3.2 |
| [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) | 196533836.184000 | 196532771.51411 | | | |
| Observation start date | 2004-03-24T16:42:52 | 2004-03-24T16:26:11 | | | |
| [s] Observation end time (MET) | 196536836.184000 | 196537892.41434 | | | |
| Observation end date | 2004-03-24T17:32:52 | 2004-03-24T17:51:32 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



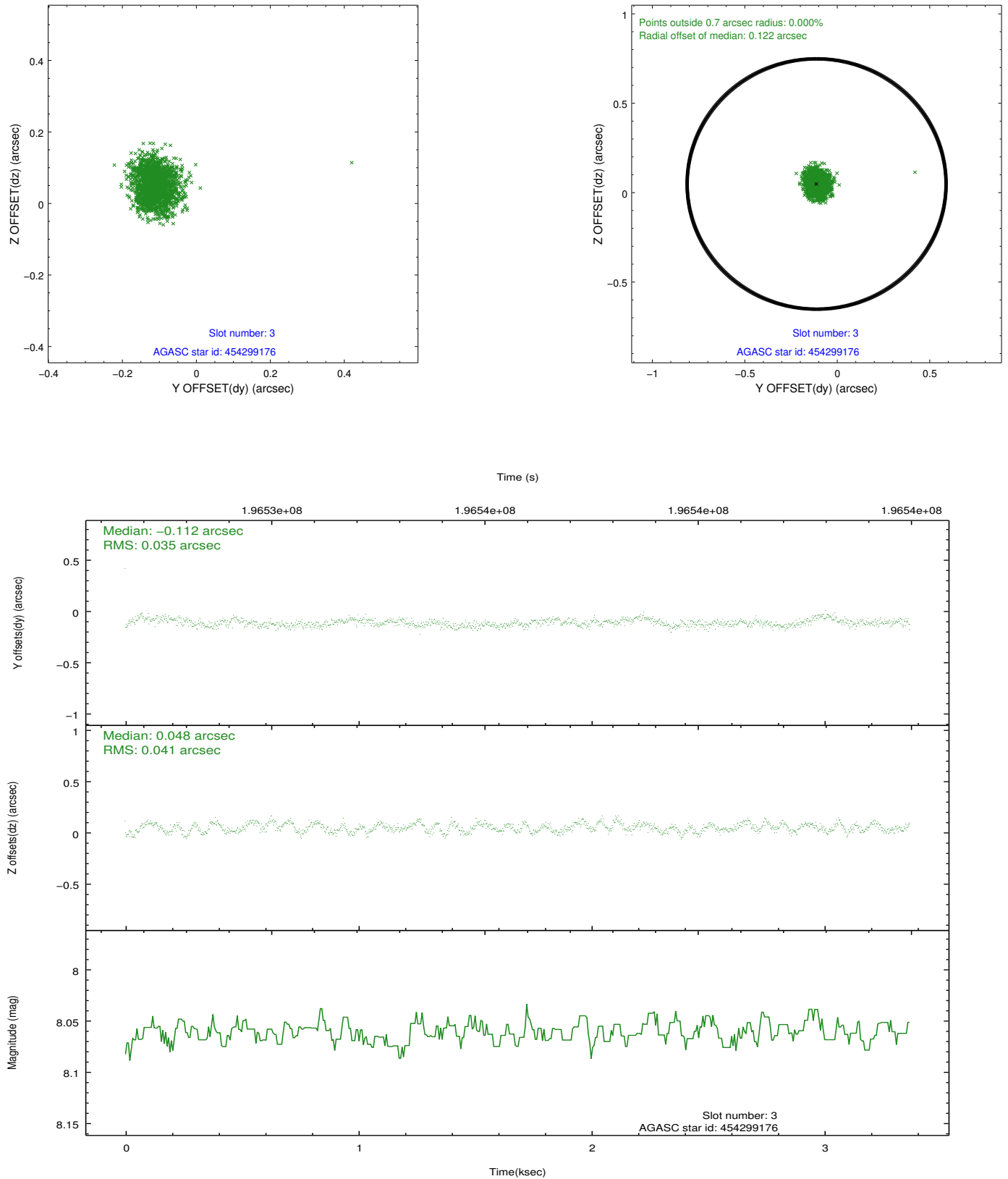


Slot Statistics

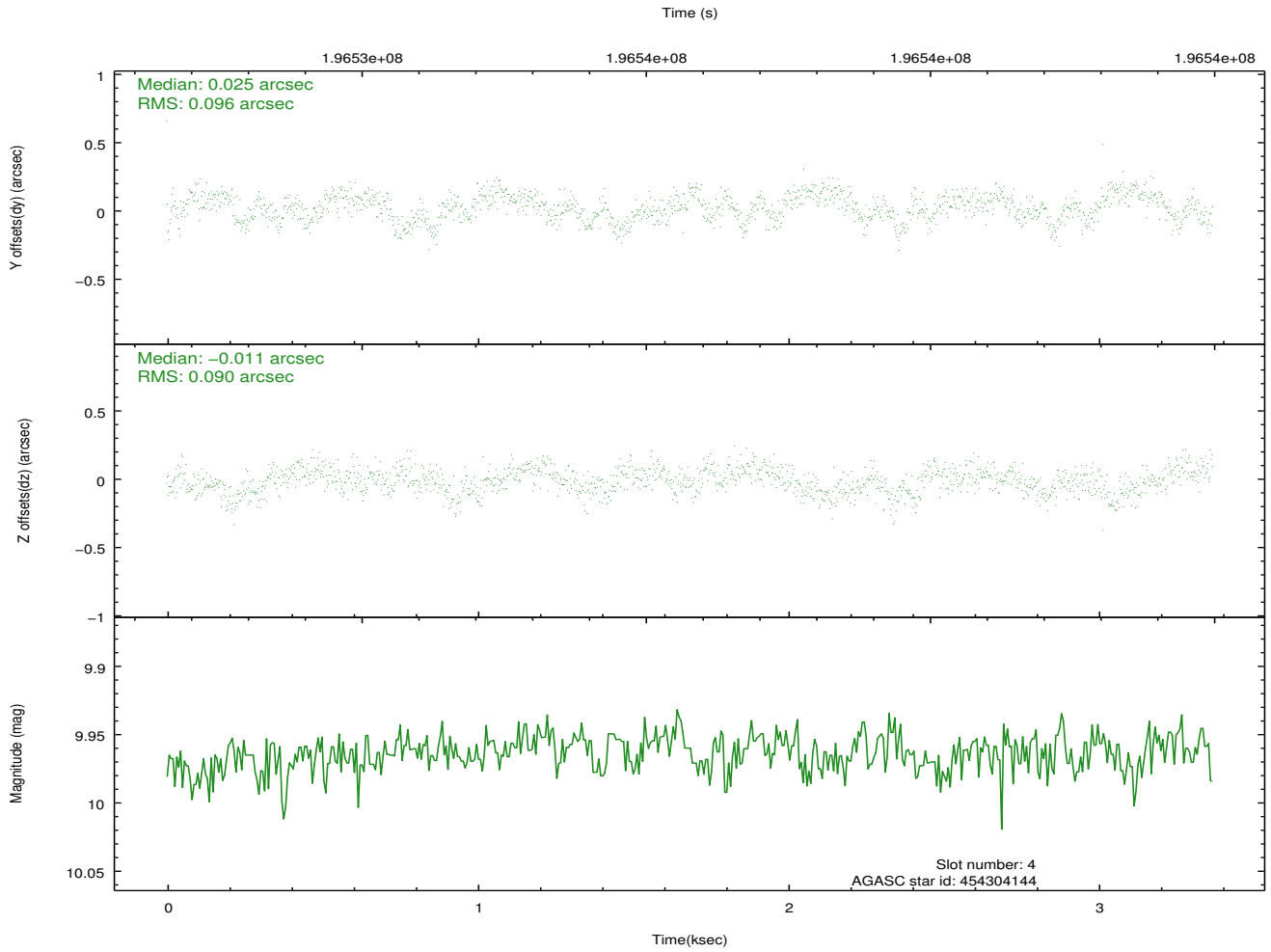
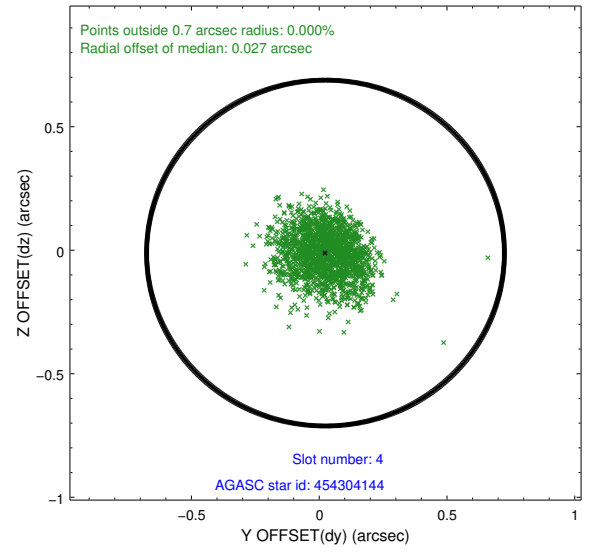
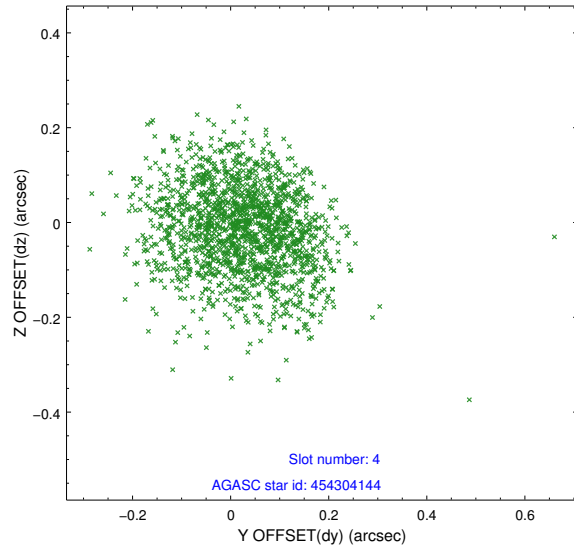
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 822 | -0.010 | 0.043 | 0.007 | 0.012 | 0.000000 | 0.000000 | 933.09 | -833.03 |
| 1 | FID | ACIS-I-5 | 7.23 | 822 | -0.137 | 0.022 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1814.10 | 1063.50 |
| 2 | FID | ACIS-I-6 | 7.25 | 822 | 0.055 | 0.004 | 0.007 | 0.011 | 0.000000 | 0.000000 | 396.65 | 1710.12 |
| 3 | GUIDE | 454299176 | 8.06 | 1644 | -0.112 | 0.048 | 0.057 | 0.089 | 205.980064 | 49.134870 | 1643.93 | 1628.57 |
| 4 | GUIDE | 454304144 | 9.96 | 1643 | 0.025 | -0.011 | 0.140 | 0.225 | 206.063182 | 48.933717 | 1133.22 | 2177.94 |
| 5 | GUIDE | 454434224 | 8.18 | 1644 | 0.092 | -0.016 | 0.055 | 0.093 | 207.312110 | 49.402692 | -651.36 | -704.10 |
| 6 | GUIDE | 454435816 | 9.85 | 1644 | 0.059 | -0.105 | 0.108 | 0.175 | 207.191689 | 48.578705 | -1832.51 | 2030.55 |
| 7 | GUIDE | 454433840 | 10.30 | 1641 | -0.063 | 0.080 | 0.160 | 0.269 | 208.286786 | 49.596141 | -2302.15 | -2424.36 |

2.4 Star Slots

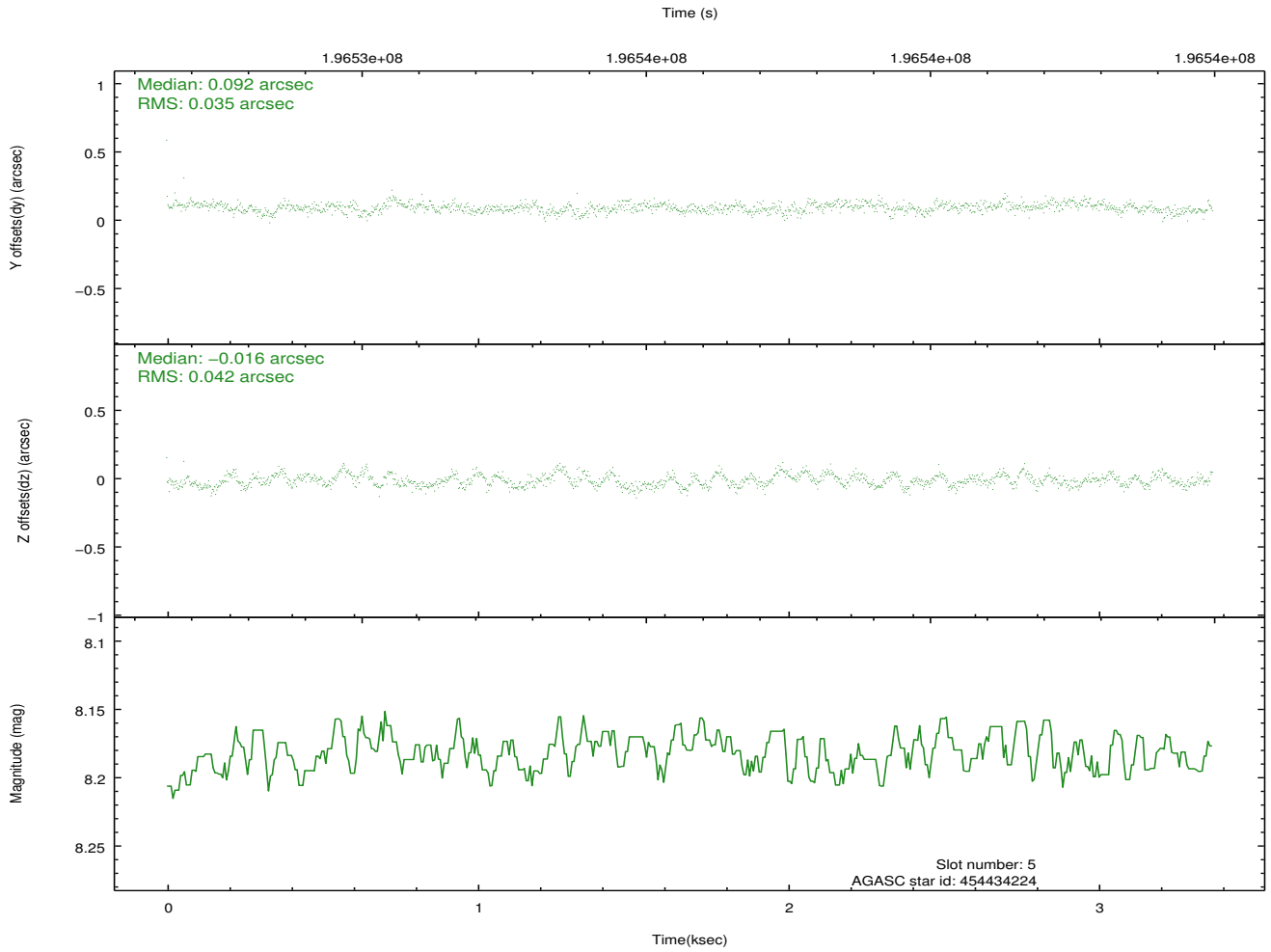
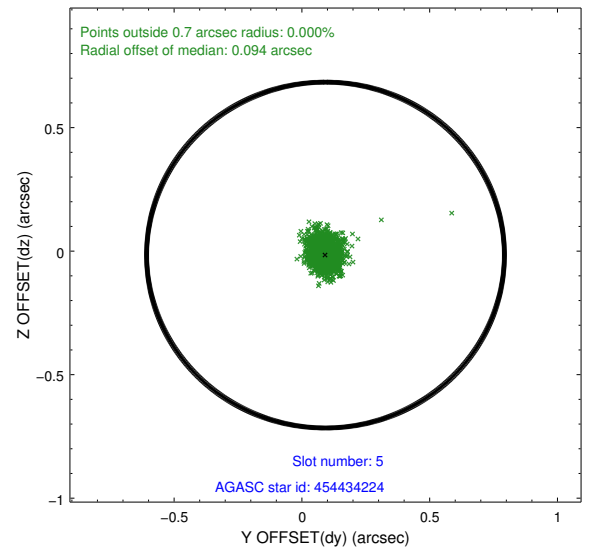
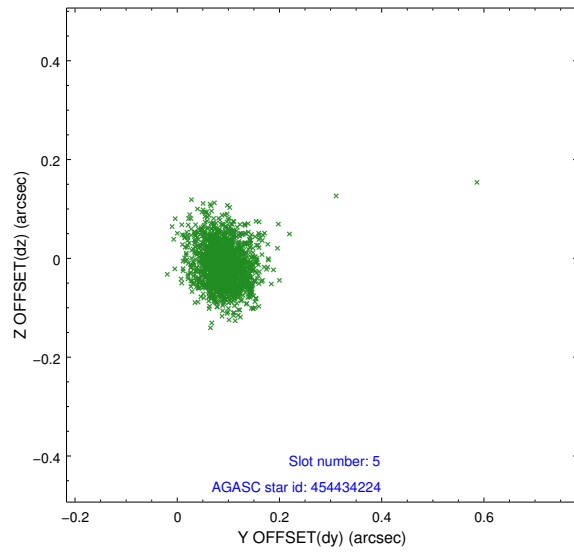
2.4.1 Slot 3



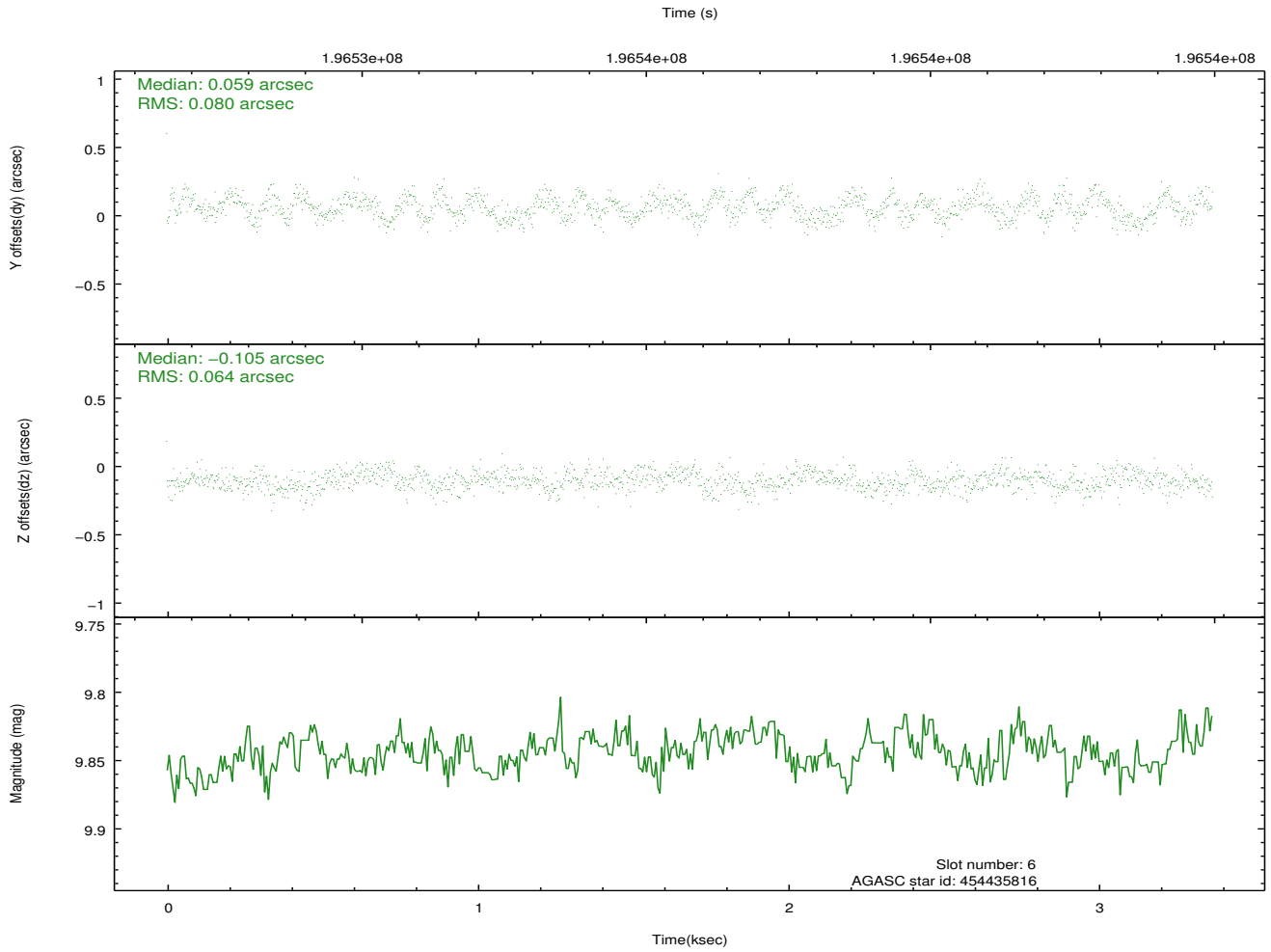
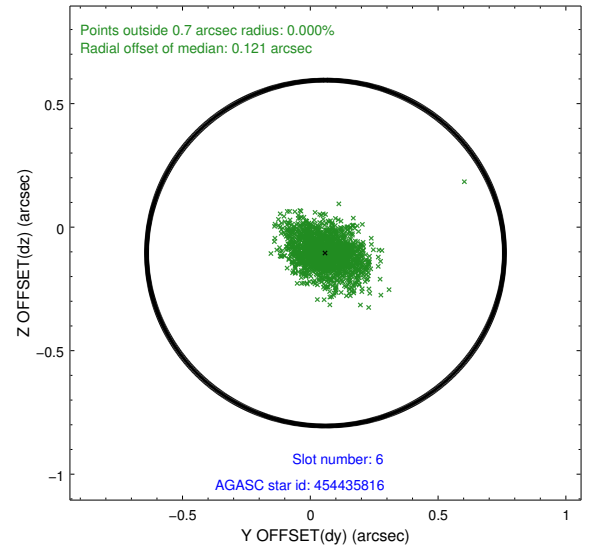
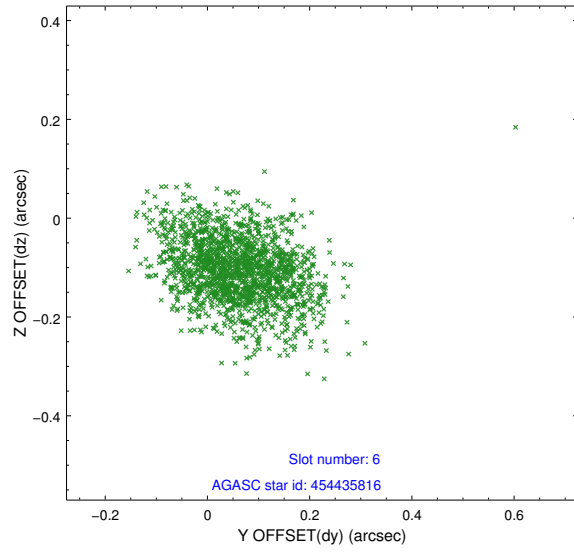
2.4.2 Slot 4



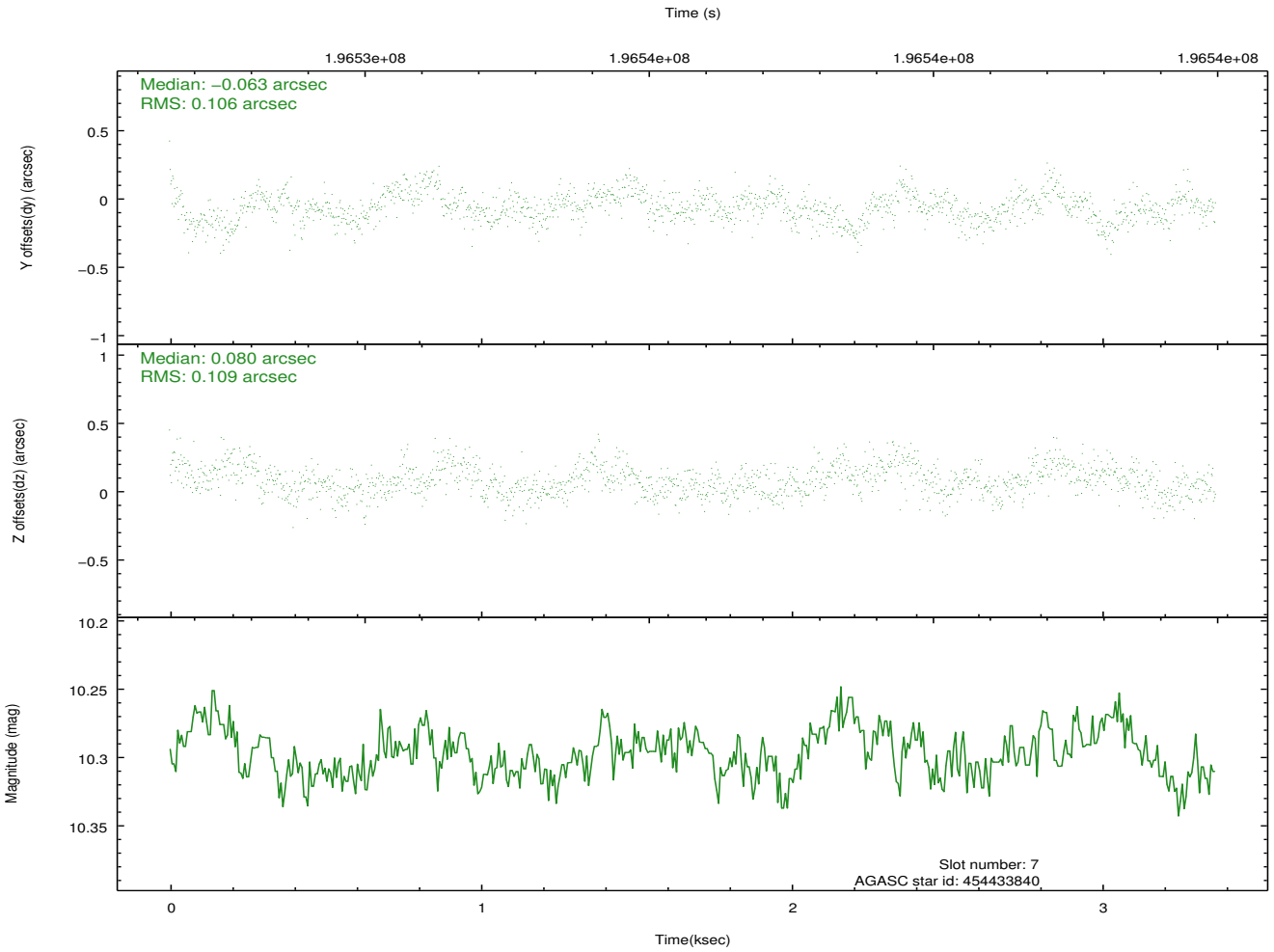
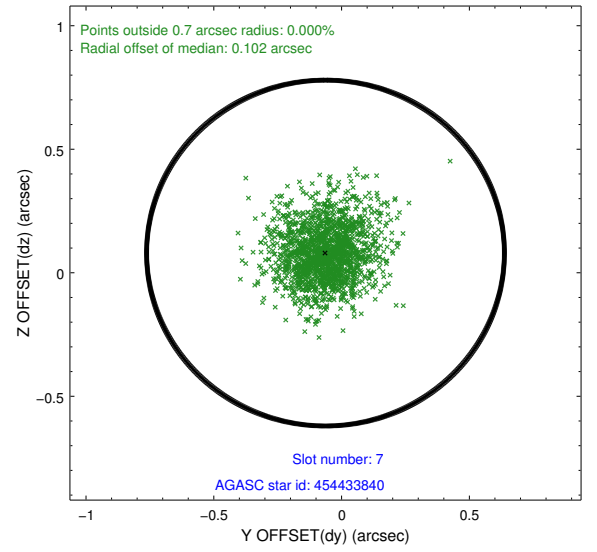
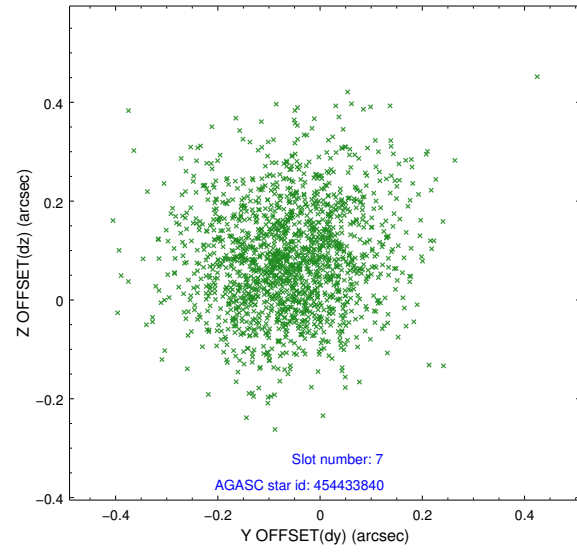
2.4.3 Slot 5



2.4.4 Slot 6

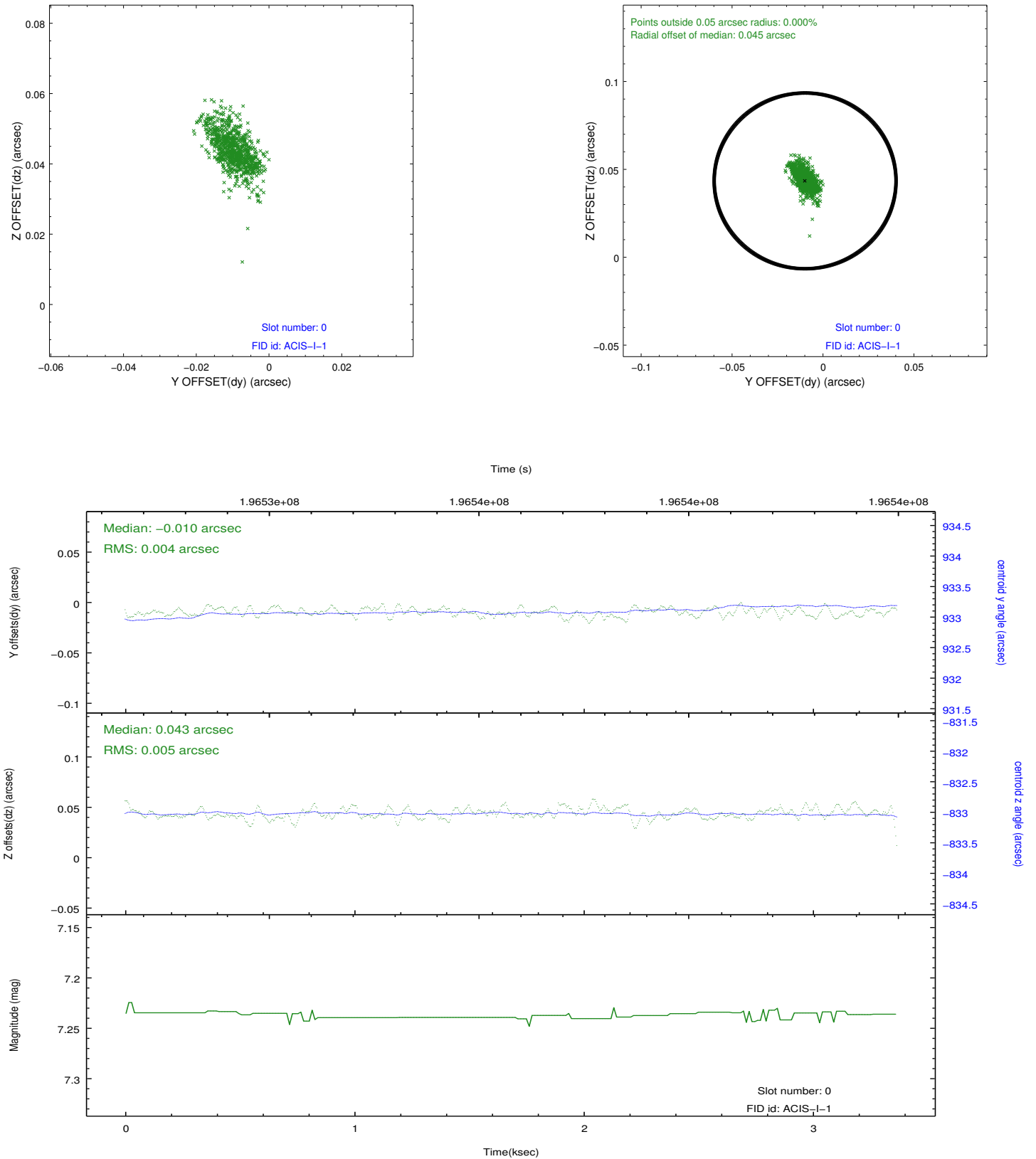


2.4.5 Slot 7

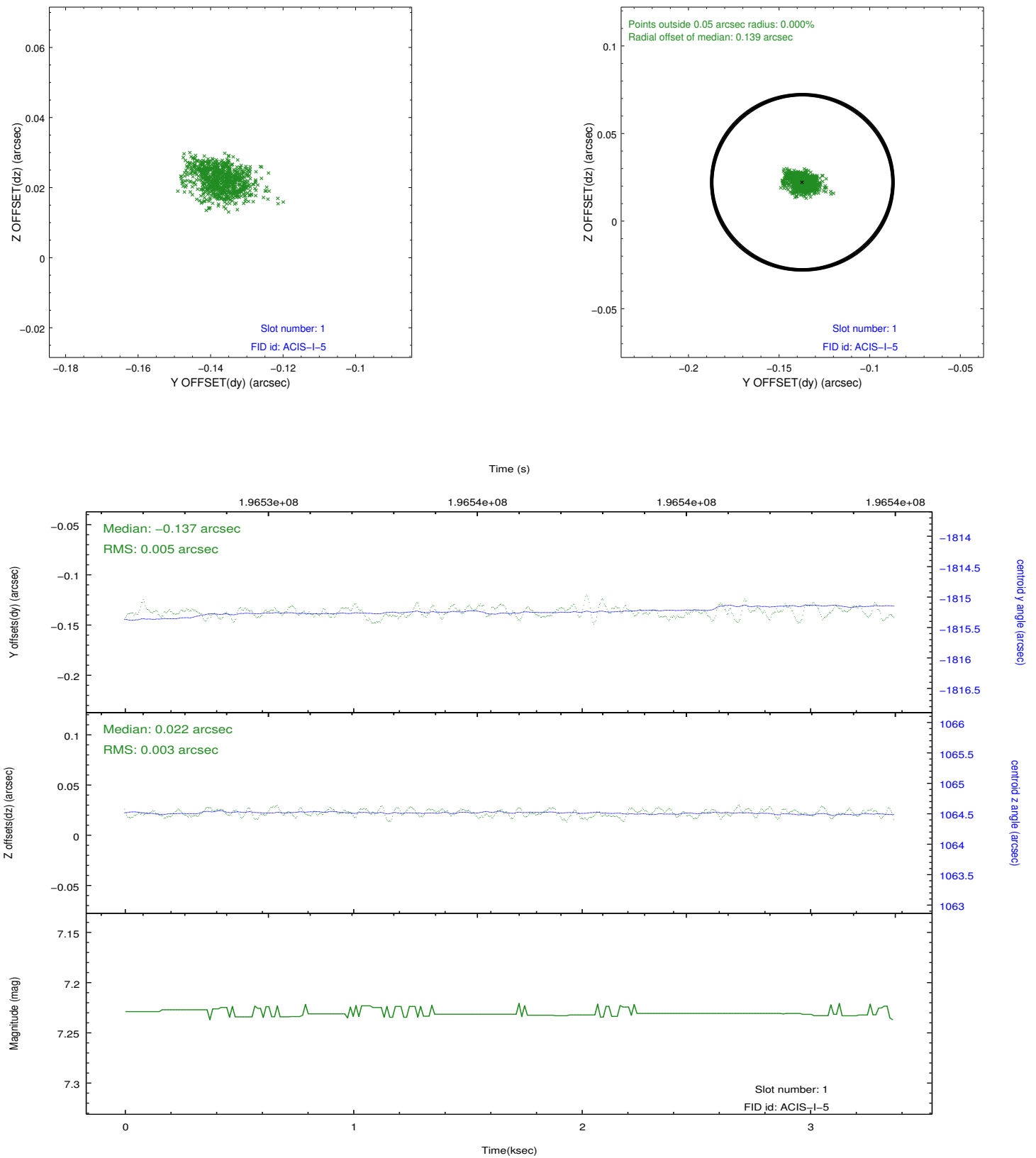


2.5 FID Slots

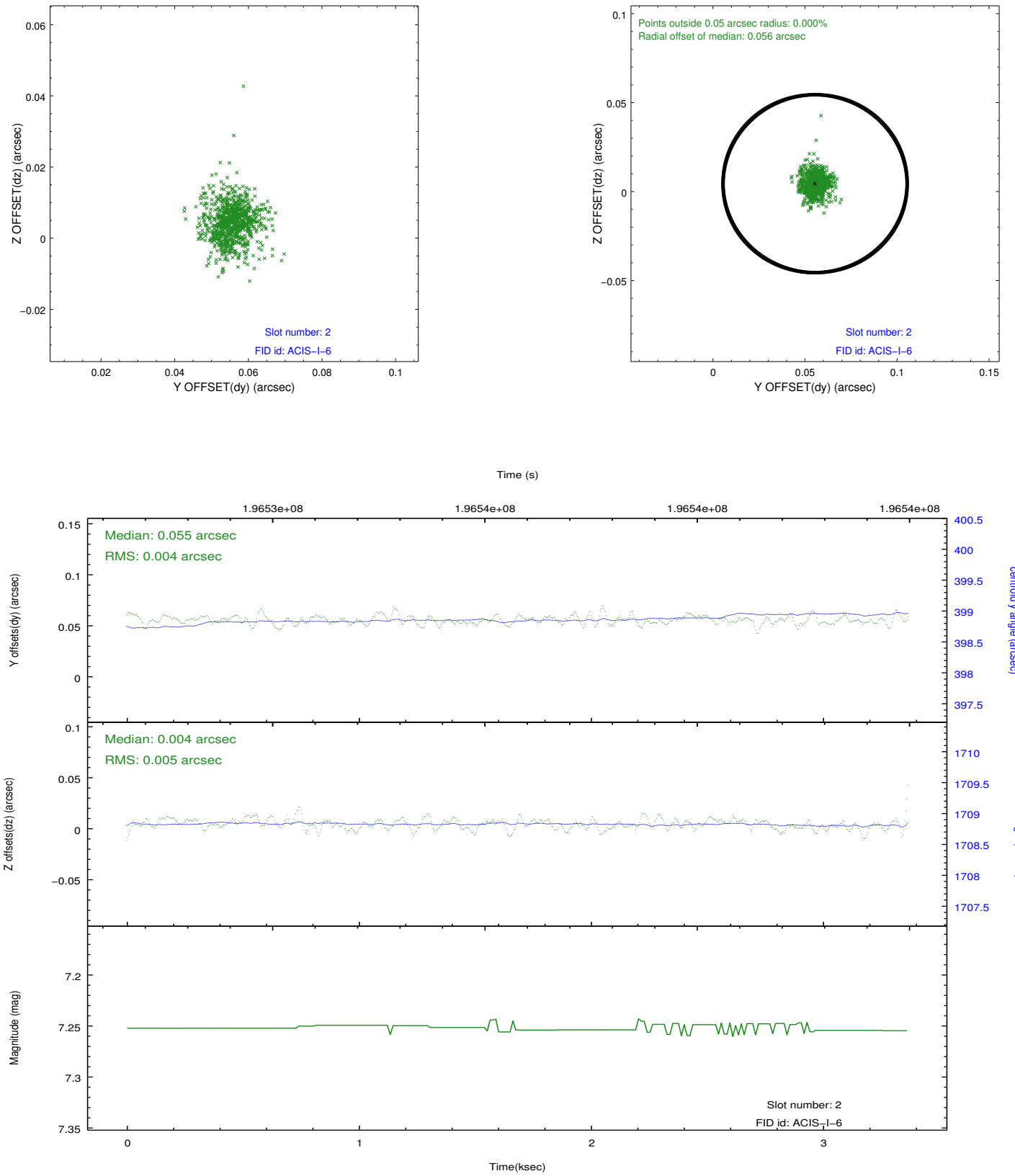
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.12.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.806 |

A.2 Comments