

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7011 - L2 Version 2
Chandra X-Ray Center

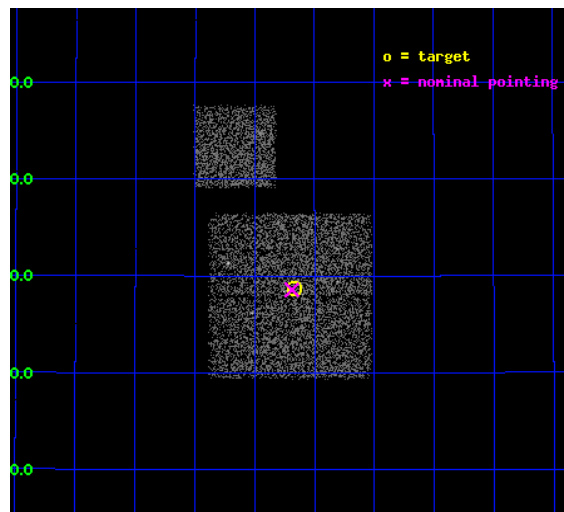
L2 Processing Date : Apr 12 2012

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1 Front

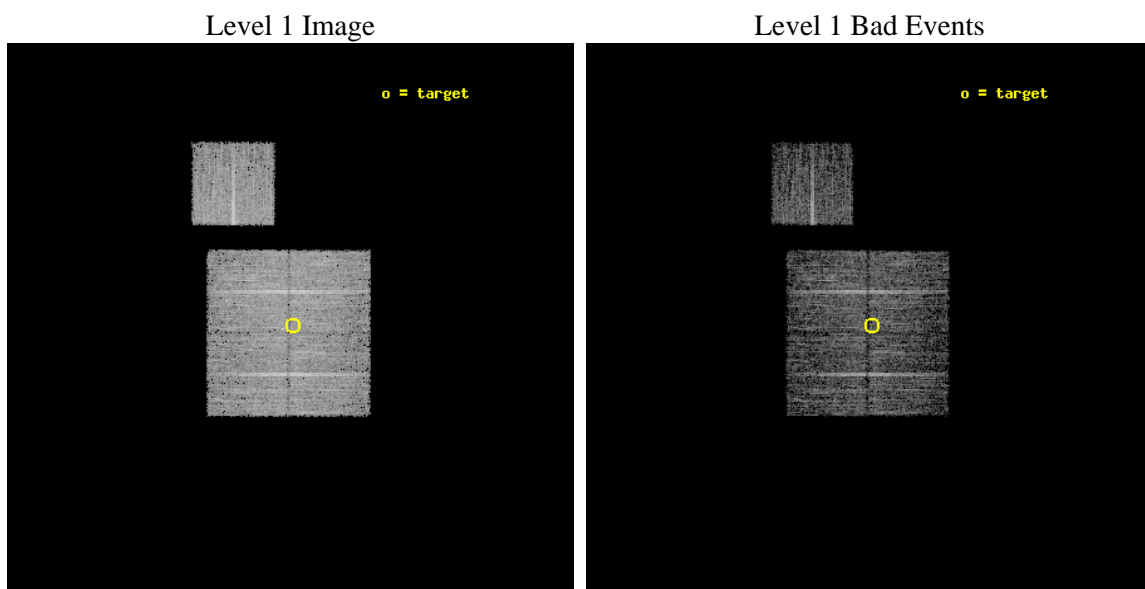
| | | |
|----------|--------------------------------------------------------------|---------------------------------------------|
| seq_num | 900427 | Sequence number |
| obs_id | 7011 | Observation id |
| title | Chandra Large Scale Survey of the NOAO Bootes Deep Field (B) | Propo |
| observer | Dr. Stephen Murray | Principal investigator |
| object | Bootes2 1B | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 218.667154 | Observer's specified target RA [deg] |
| dec_targ | 33.478003 | Observer's specified target Dec [deg] |
| ra_nom | 218.67234427952 | Nominal RA [deg] |
| dec_nom | 33.476157746132 | Nominal Dec [deg] |
| roll_nom | 0.20581174676344 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 4776.7398974895 | Sum of GTIs [s] |
| livetime | 4714.3282741441 | Livetime [s] |
| ontime0 | 4776.6167774796 | Sum of GTIs [s] |
| ontime1 | 4776.6578373313 | Sum of GTIs [s] |
| ontime2 | 4773.5579069853 | Sum of GTIs [s] |
| ontime3 | 4776.7398974895 | Sum of GTIs [s] |
| ontime6 | 4776.5757573247 | Sum of GTIs [s] |
| l2events | 13860 | Number of level 2 events |



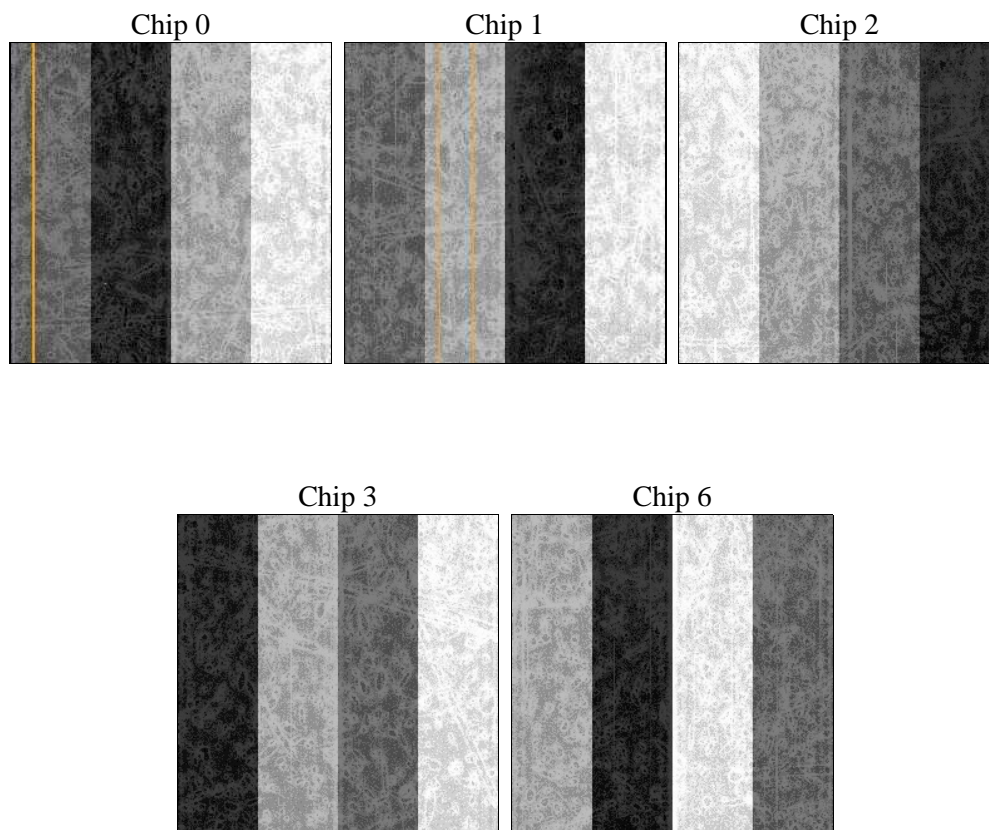
2 OBI

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 | 4776.7398974895 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 4776.6167774796 | Sum of GTIs [s] |
| date | 2012-04-12T23:21:11 | Date and time of file creation | ontime1 | 4776.6578373313 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 4773.5579069853 | Sum of GTIs [s] |
| | | | ontime3 | 4776.7398974895 | Sum of GTIs [s] |
| | | | ontime6 | 4776.5757573247 | Sum of GTIs [s] |
| | | | l1events | 169718 | Number of level 1 events |

2.1.4 Events

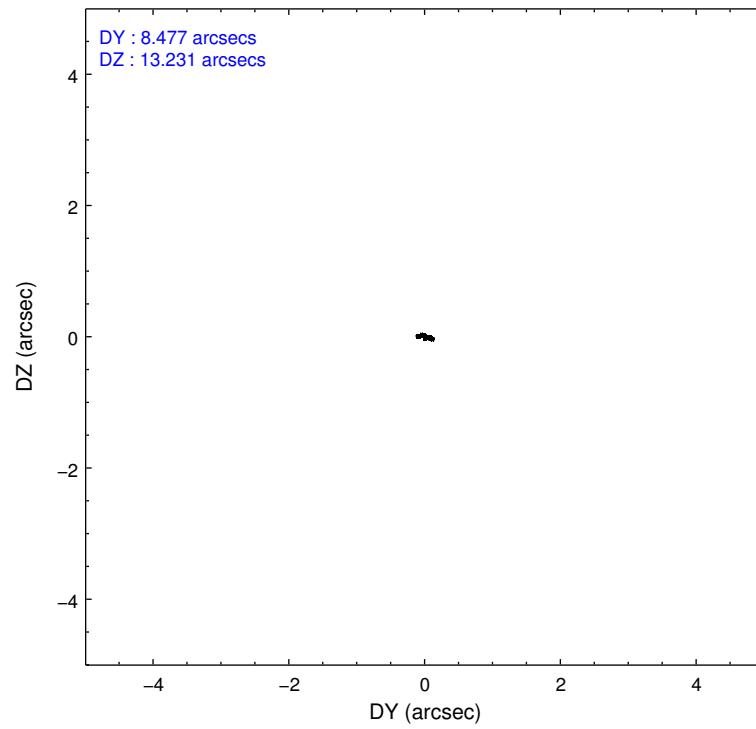
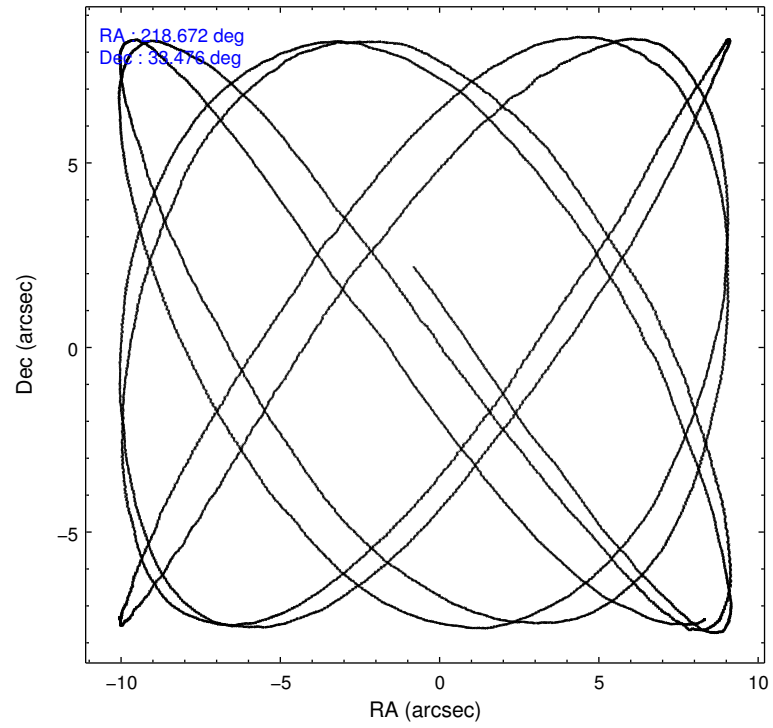
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 32144 | 31552 | 36990 | 35498 | 33534 |
| rejected events | 28916 | 28059 | 33439 | 32255 | 30099 |
| rejected % | 89% | 88% | 90% | 90% | 89% |

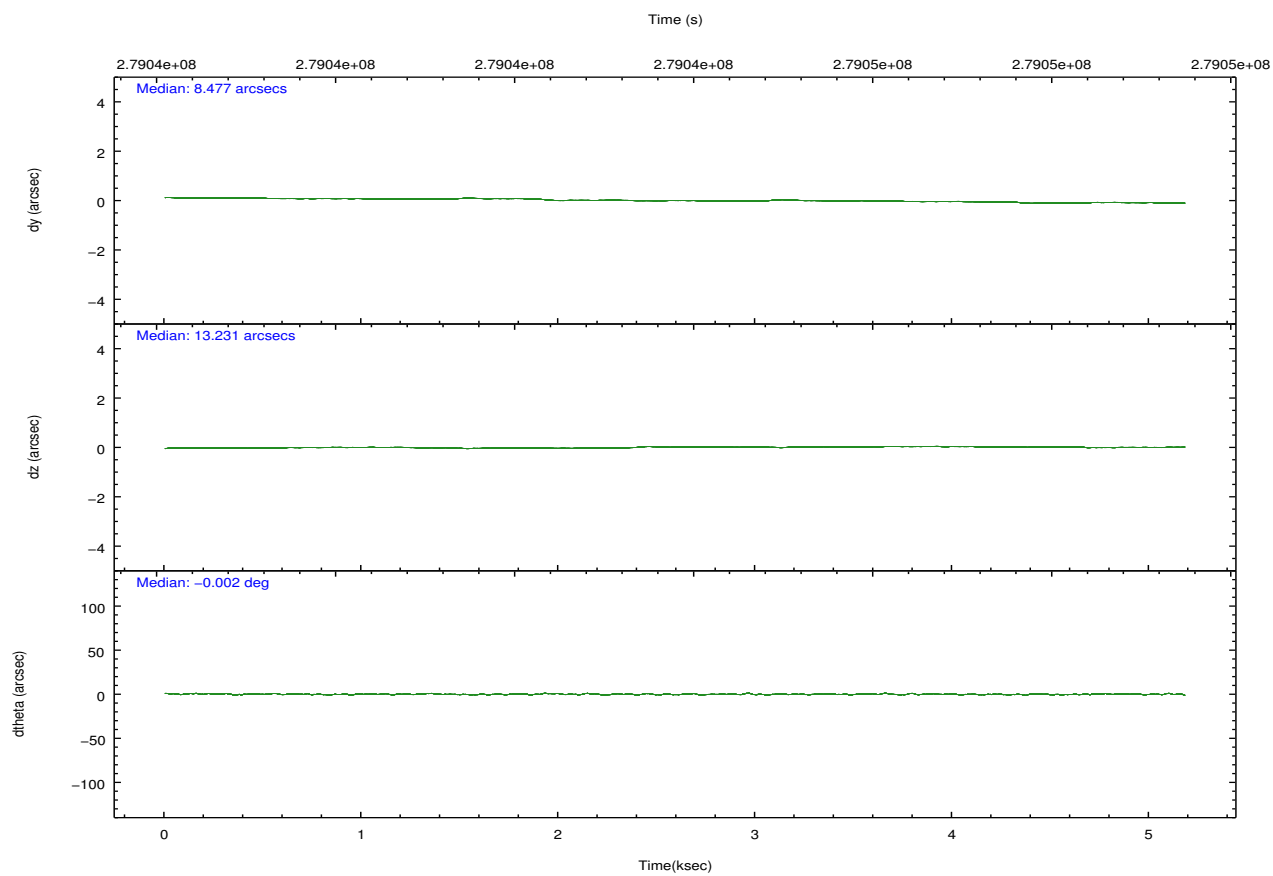
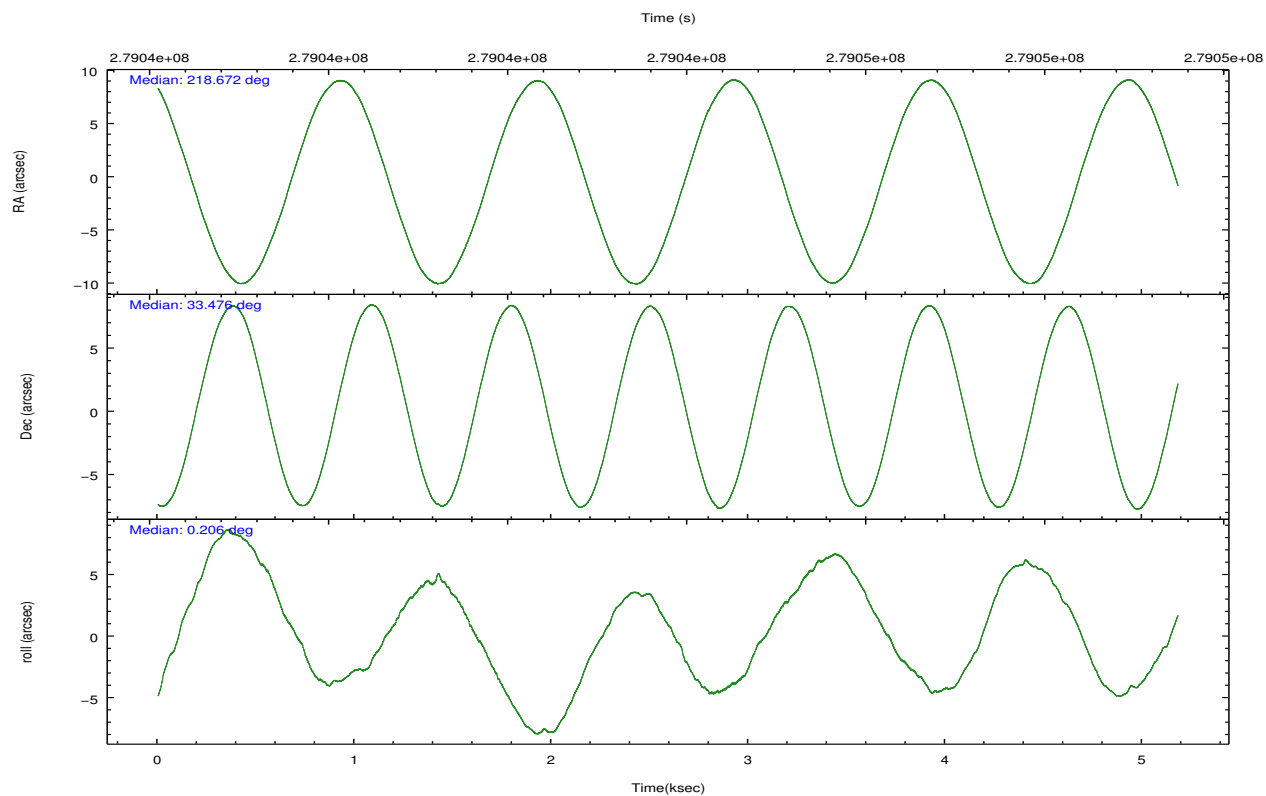
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 1170 | 1185 | 1455 | 1193 | 1213 |
| | 3% | 3% | 3% | 3% | 3% |
| grade 1 events | 16 | 21 | 23 | 18 | 17 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 796 | 735 | 801 | 723 | 741 |
| | 2% | 2% | 2% | 2% | 2% |
| grade 3 events | 389 | 415 | 371 | 357 | 398 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 317 | 425 | 370 | 379 | 401 |
| | 0% | 1% | 1% | 1% | 1% |
| grade 5 events | 882 | 1163 | 950 | 1196 | 1062 |
| | 2% | 3% | 2% | 3% | 3% |
| grade 6 events | 559 | 735 | 555 | 594 | 685 |
| | 1% | 2% | 1% | 1% | 2% |
| grade 7 events | 28015 | 26873 | 32465 | 31038 | 29017 |
| | 87% | 85% | 87% | 87% | 86% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-01236 | ACIS-01236 | 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 | 218.643987 | 218.6723442795195 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 33.462337 | 33.47615774613199 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.012772 | 0.2058117467634355 | [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) | 279042490.184000 | 279042114.18336 | | | |
| Observation start date | 2006-11-04T15:47:05 | 2006-11-04T15:41:54 | | | |
| [s] Observation end time (MET) | 279047490.184000 | 279047624.07112 | | | |
| Observation end date | 2006-11-04T17:10:25 | 2006-11-04T17:13:44 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



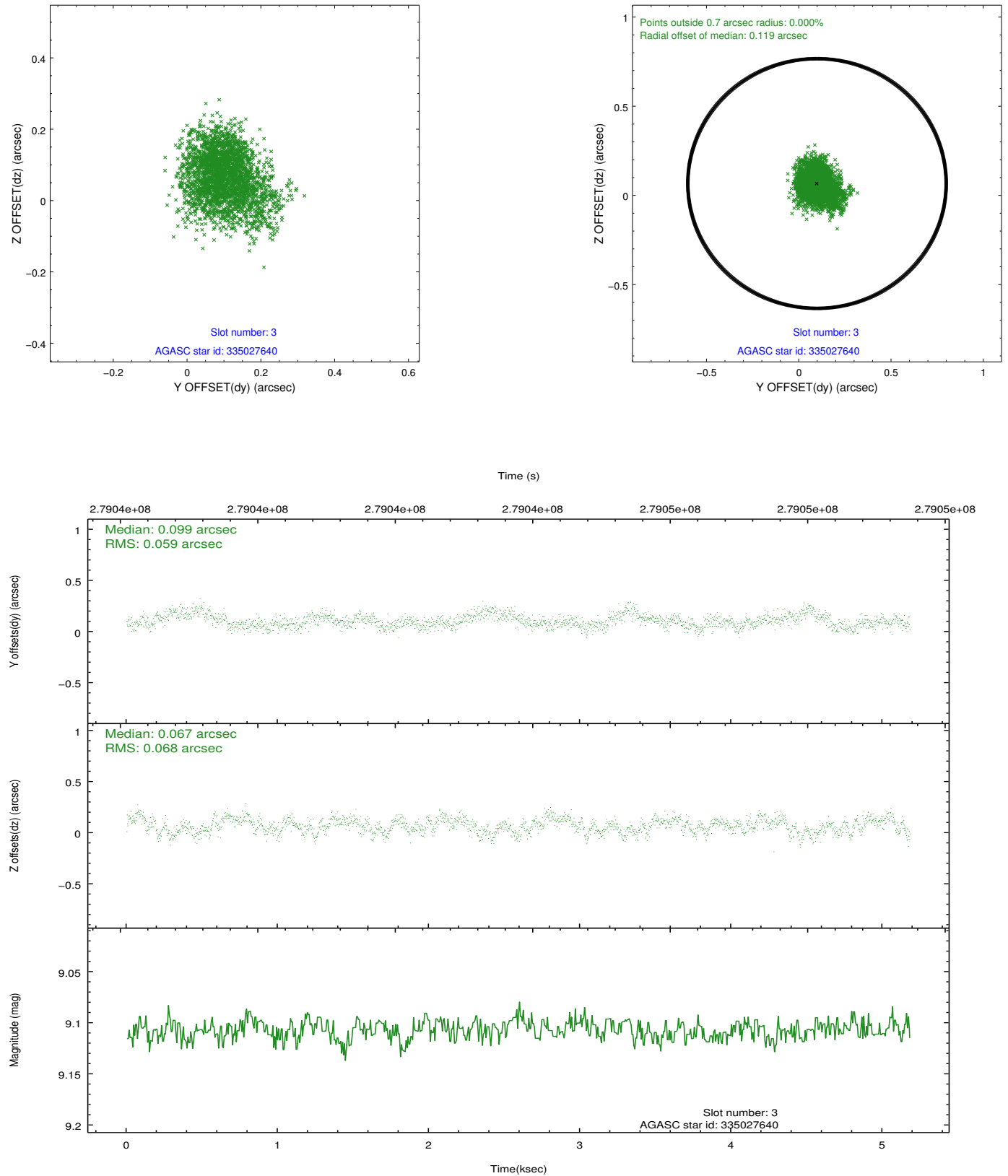


Slot Statistics

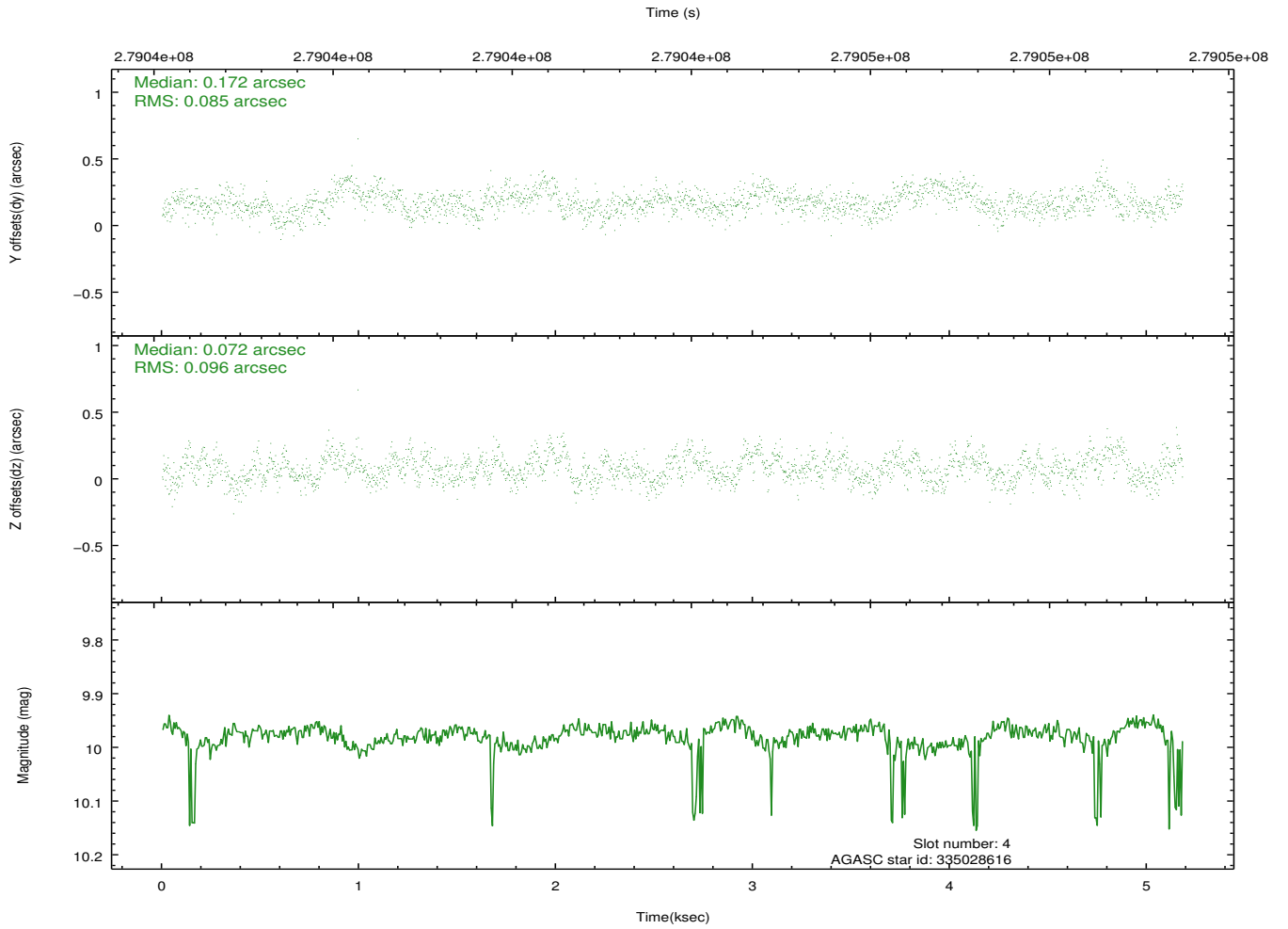
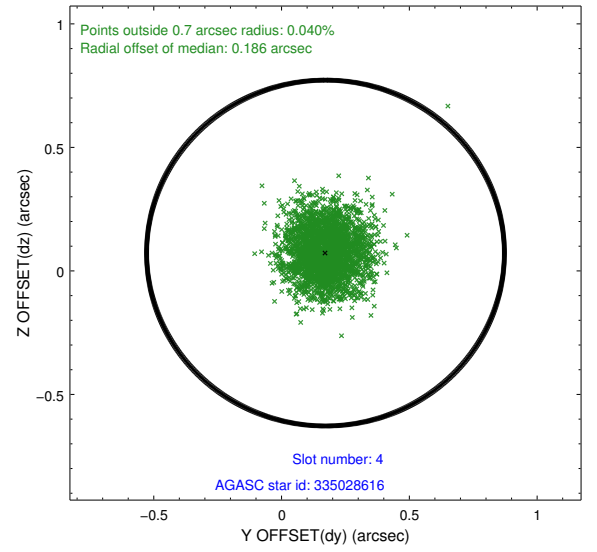
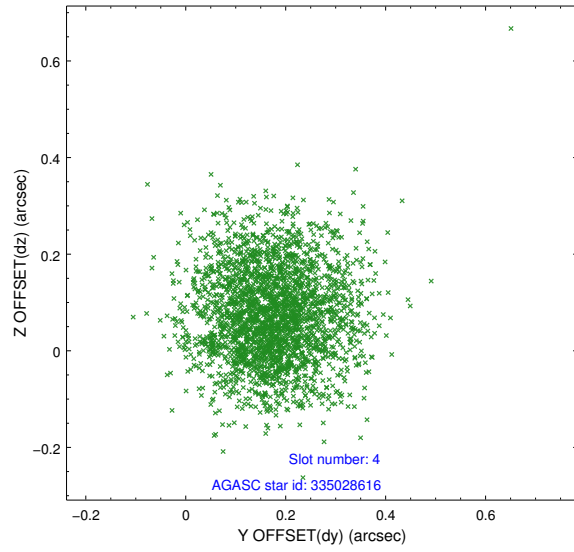
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 1264 | 0.035 | 0.006 | 0.006 | 0.011 | 0.000000 | 0.000000 | 931.19 | -836.78 |
| 1 | FID | ACIS-I-5 | 7.23 | 1264 | -0.187 | 0.050 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1816.49 | 1060.17 |
| 2 | FID | ACIS-I-6 | 7.24 | 1264 | 0.061 | 0.015 | 0.007 | 0.012 | 0.000000 | 0.000000 | 395.49 | 1705.96 |
| 3 | GUIDE | 335027640 | 9.11 | 2524 | 0.099 | 0.067 | 0.096 | 0.157 | 218.092211 | 33.193770 | -1662.19 | -961.76 |
| 4 | GUIDE | 335028616 | 9.98 | 2511 | 0.172 | 0.072 | 0.136 | 0.217 | 218.529874 | 33.175085 | -344.17 | -1034.54 |
| 5 | GUIDE | 335152784 | 7.24 | 2528 | -0.199 | -0.125 | 0.060 | 0.098 | 219.280617 | 33.678221 | 1907.39 | 782.18 |
| 6 | GUIDE | 335154960 | 9.58 | 2526 | -0.053 | 0.114 | 0.098 | 0.159 | 219.209961 | 33.303073 | 1704.76 | -568.98 |
| 7 | GUIDE | 335157088 | 9.10 | 2527 | -0.022 | -0.131 | 0.070 | 0.112 | 219.274029 | 33.726909 | 1887.57 | 957.60 |

2.4 Star Slots

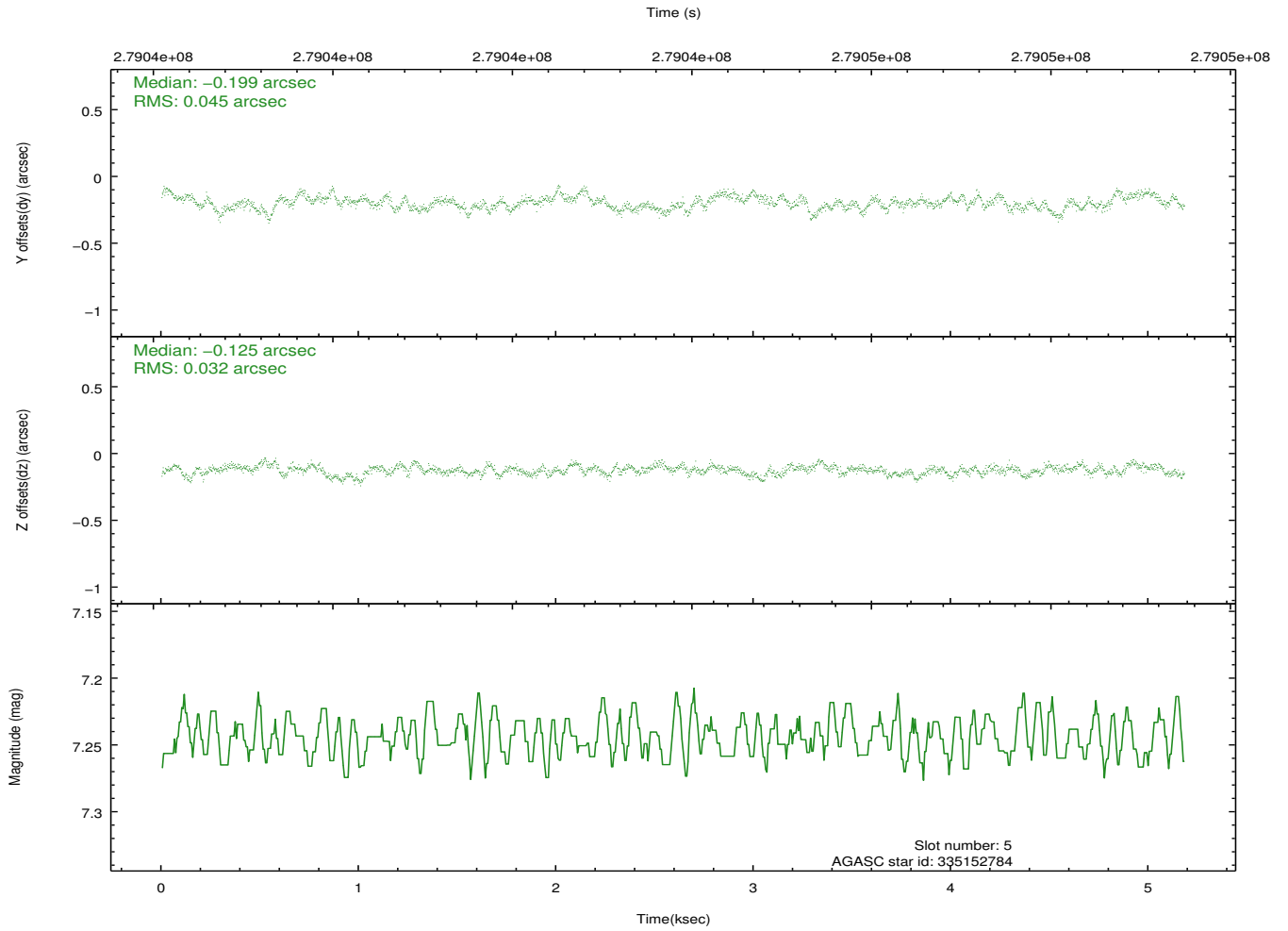
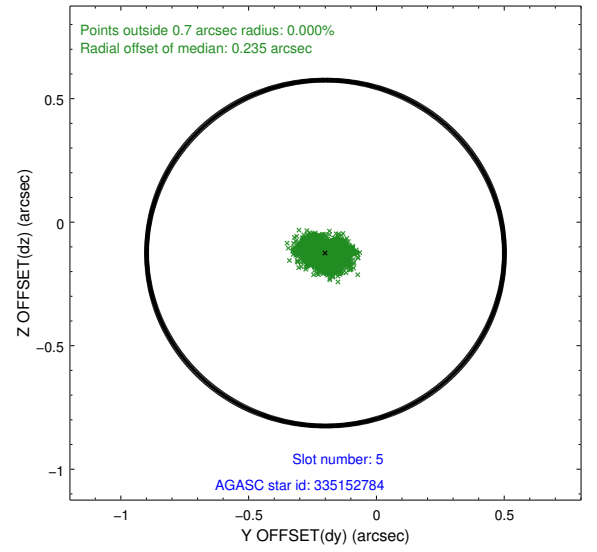
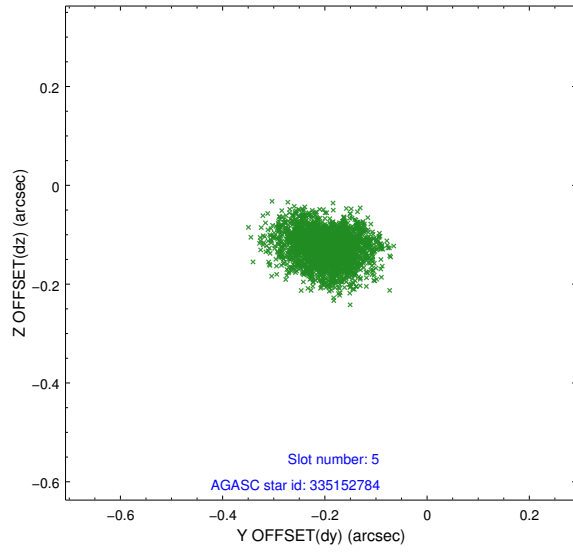
2.4.1 Slot 3



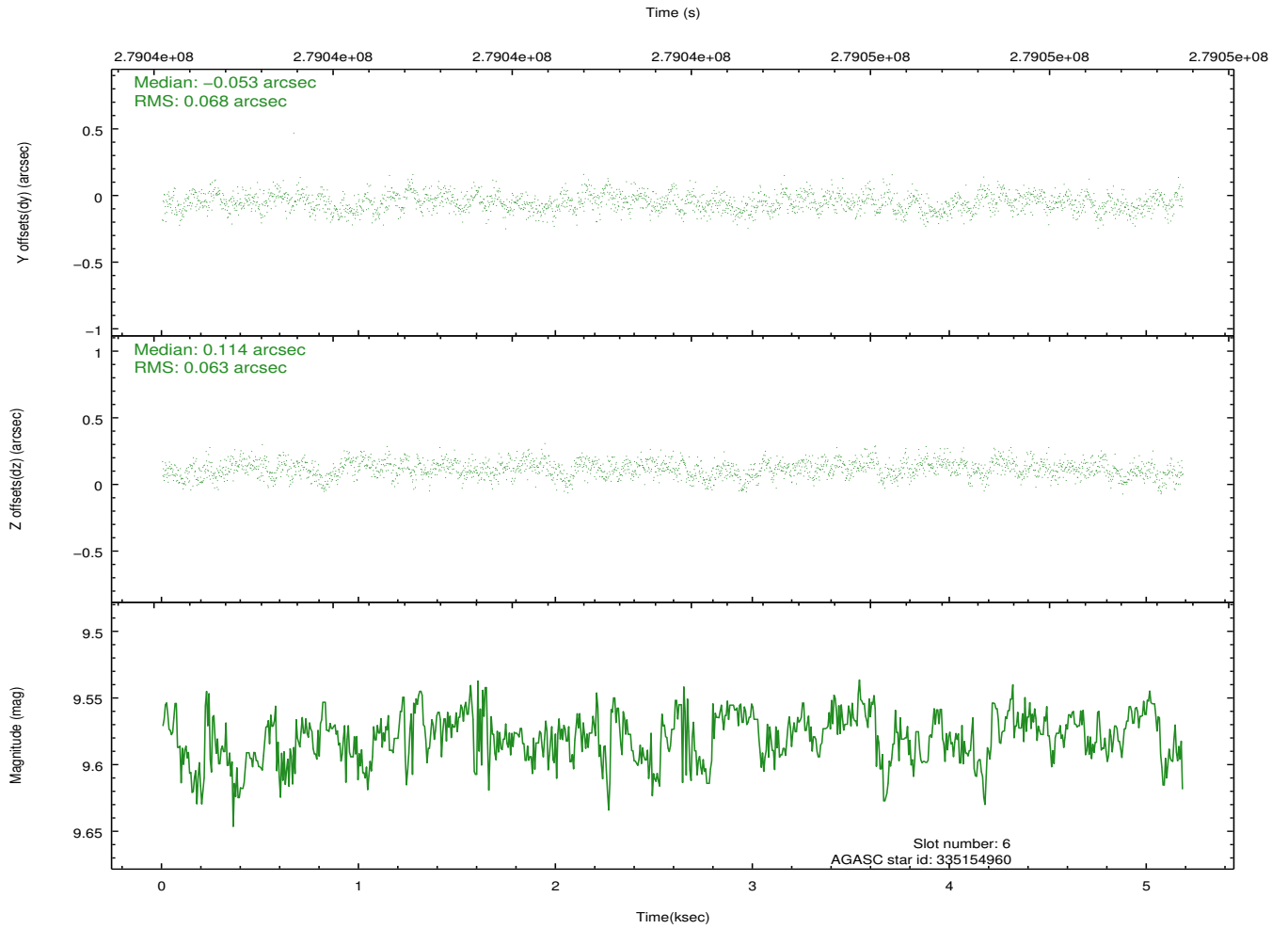
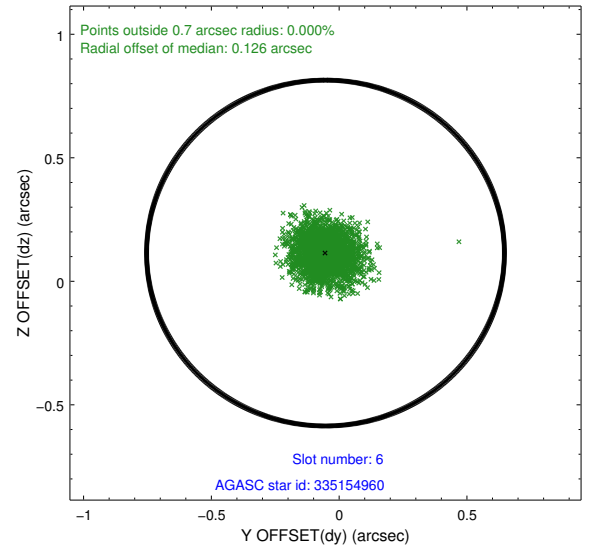
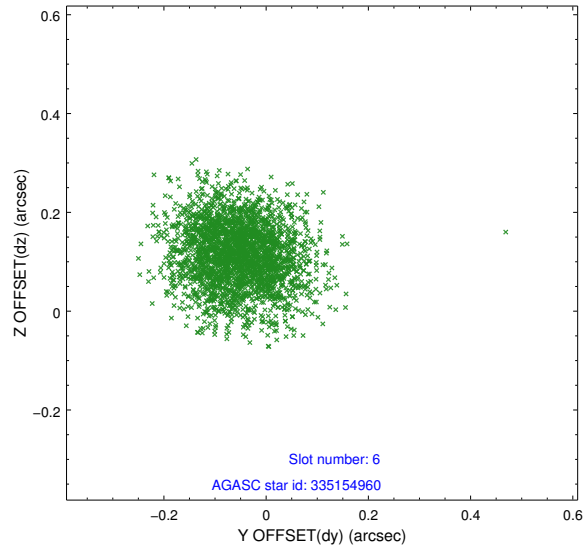
2.4.2 Slot 4



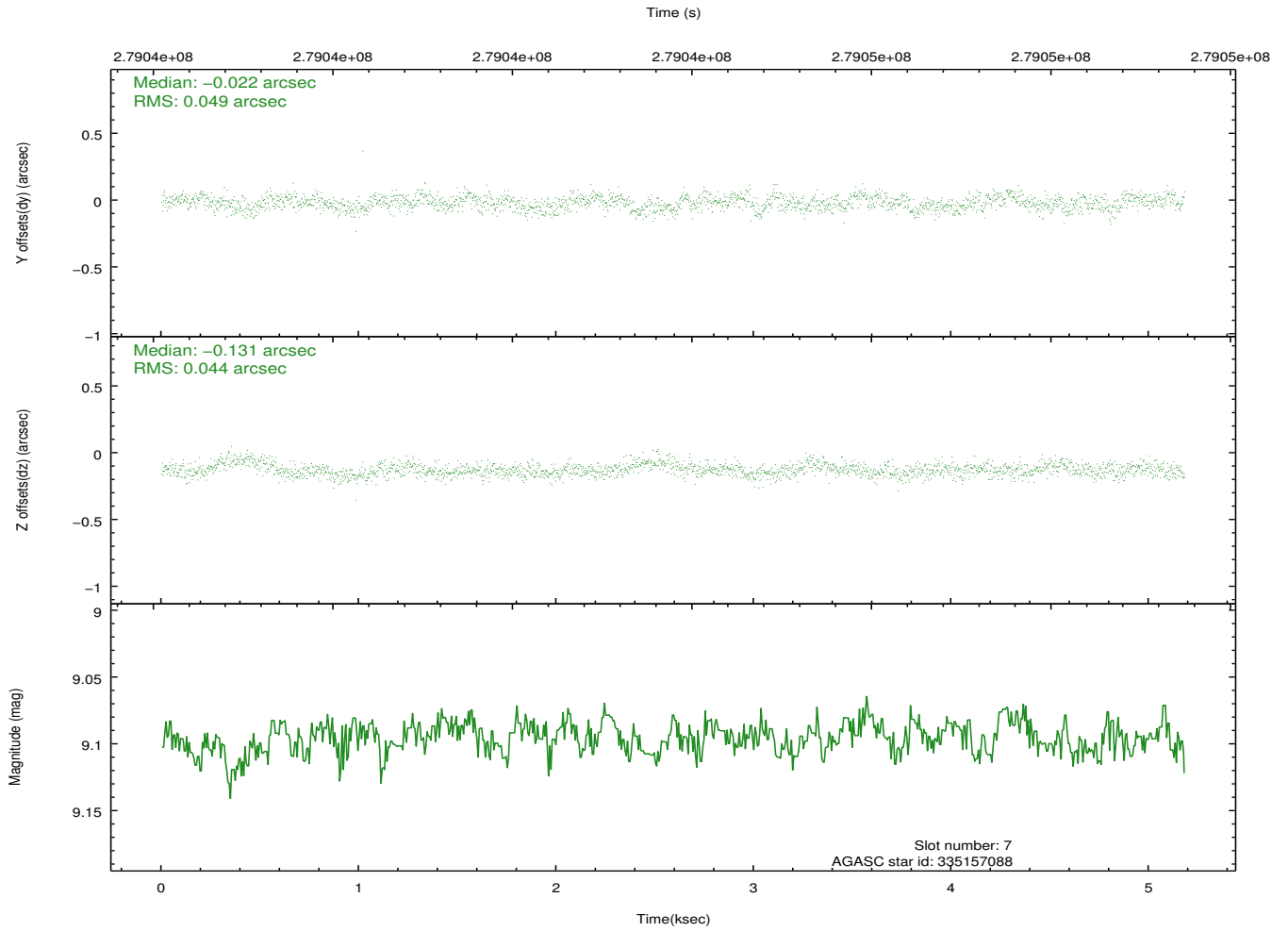
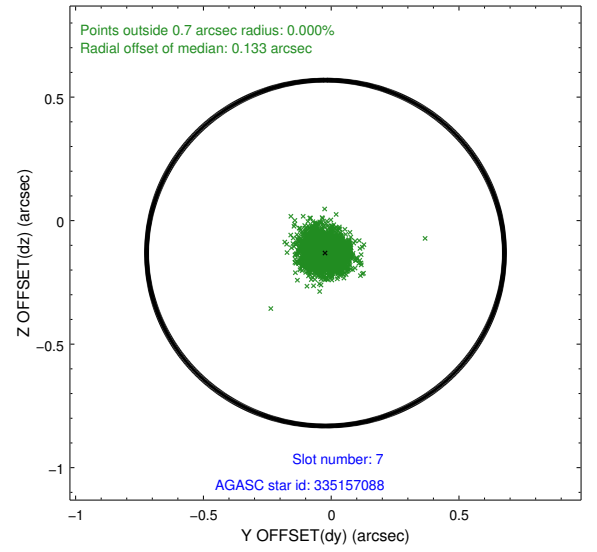
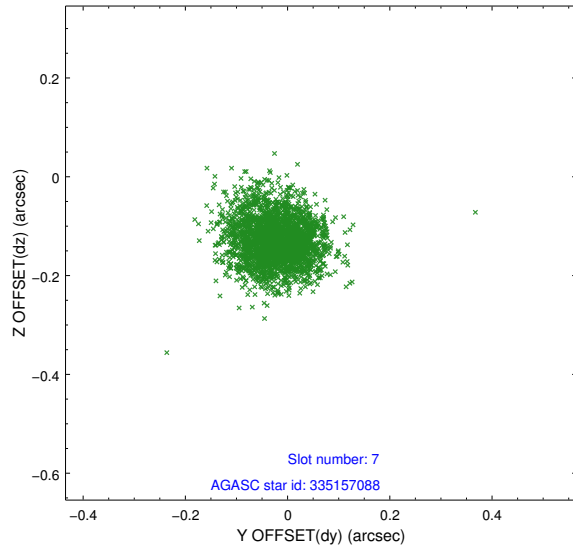
2.4.3 Slot 5



2.4.4 Slot 6

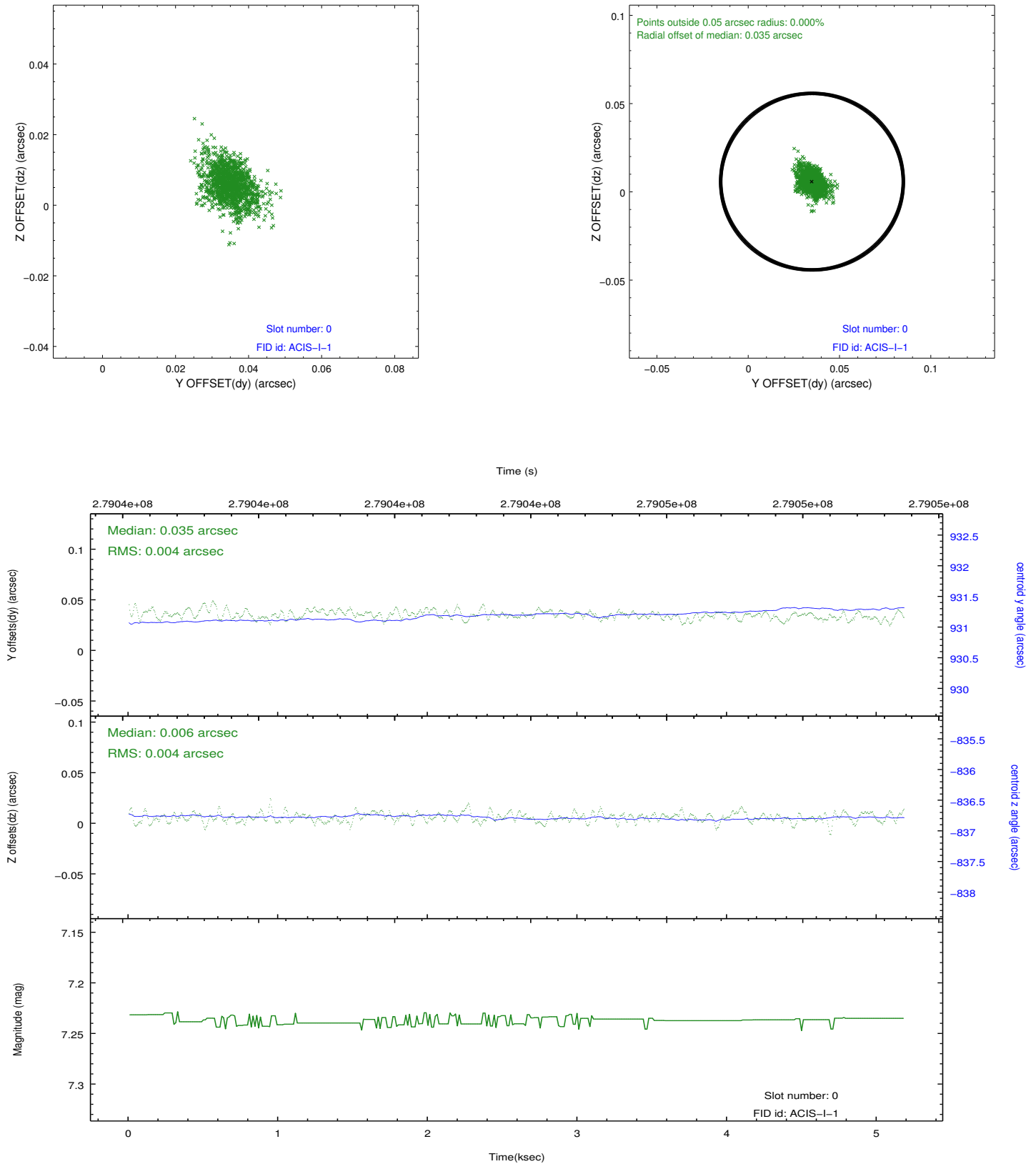


2.4.5 Slot 7

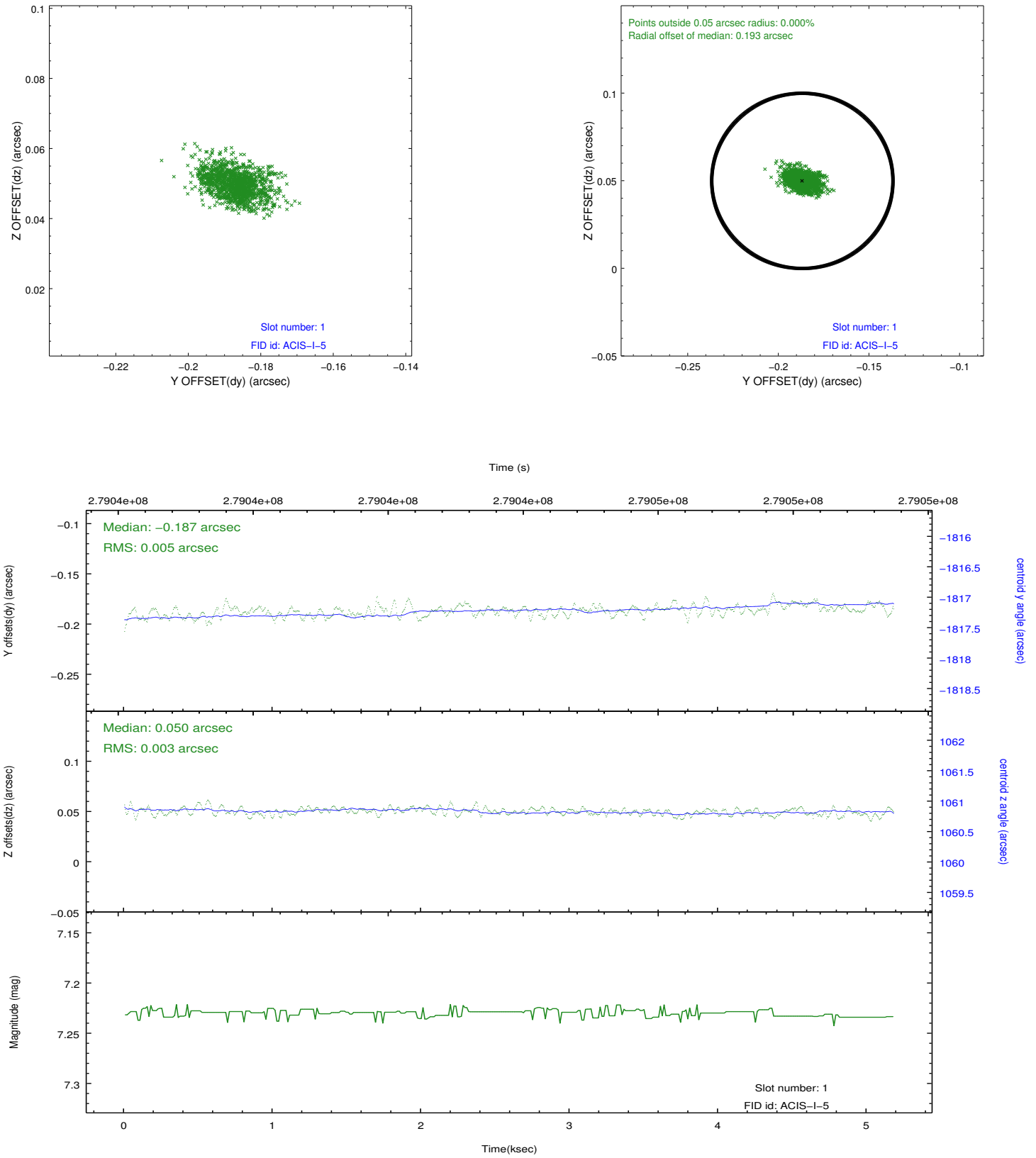


2.5 FID Slots

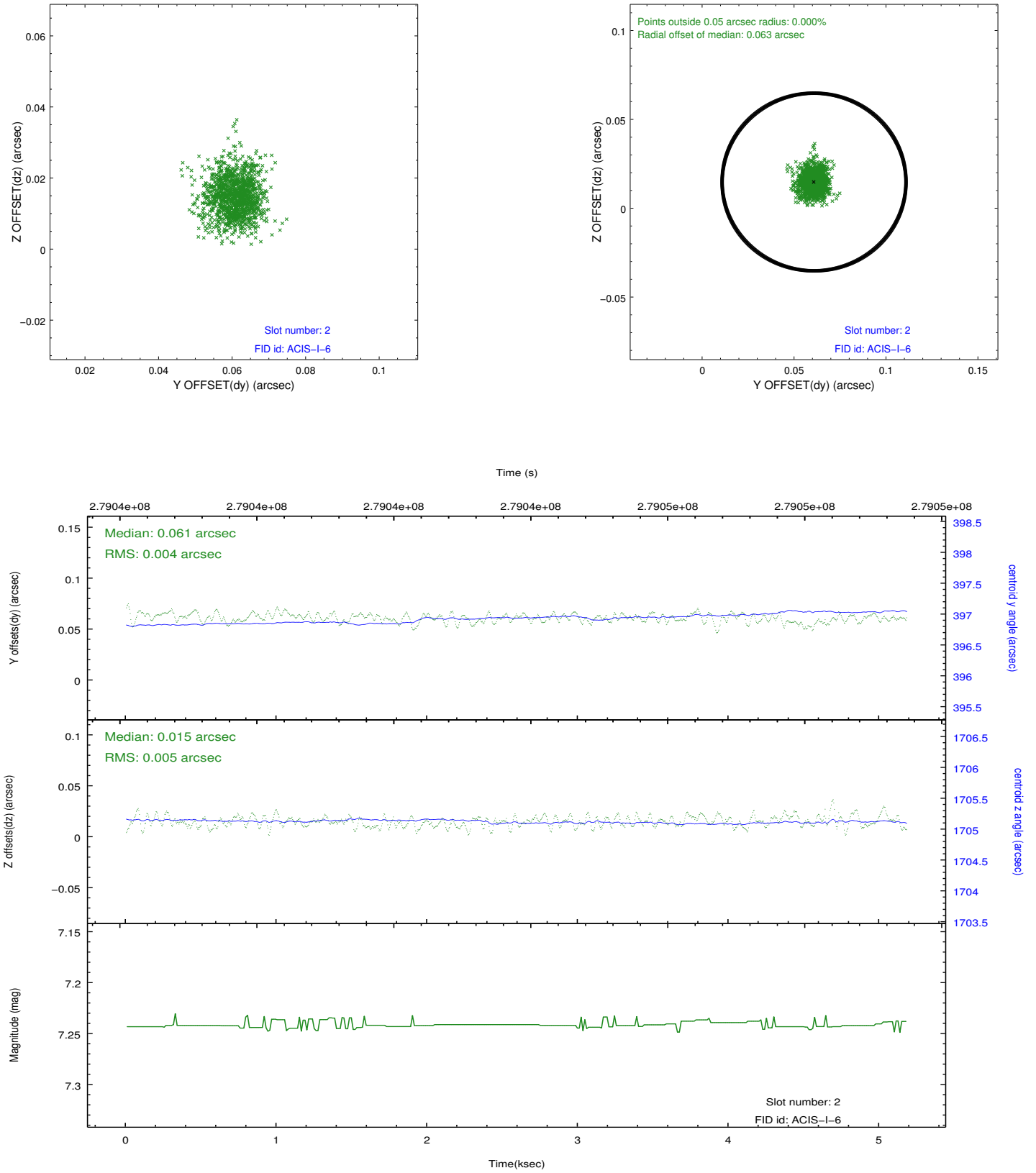
2.5.1 Slot 0



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) | 2012.04.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.77710003 |

A.2 Comments