

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8152 - L2 Version 2
Chandra X-Ray Center

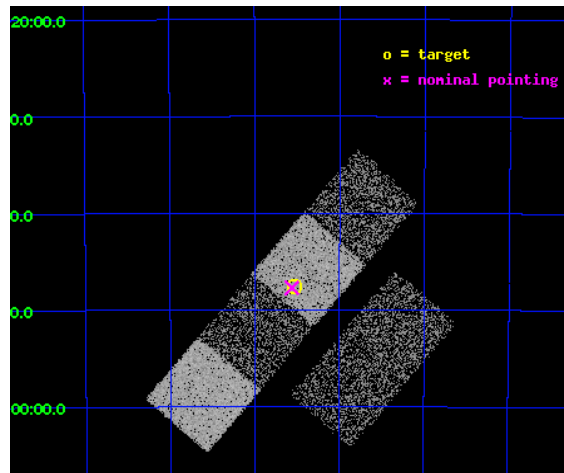
L2 Processing Date : Apr 26 2012

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1 Front

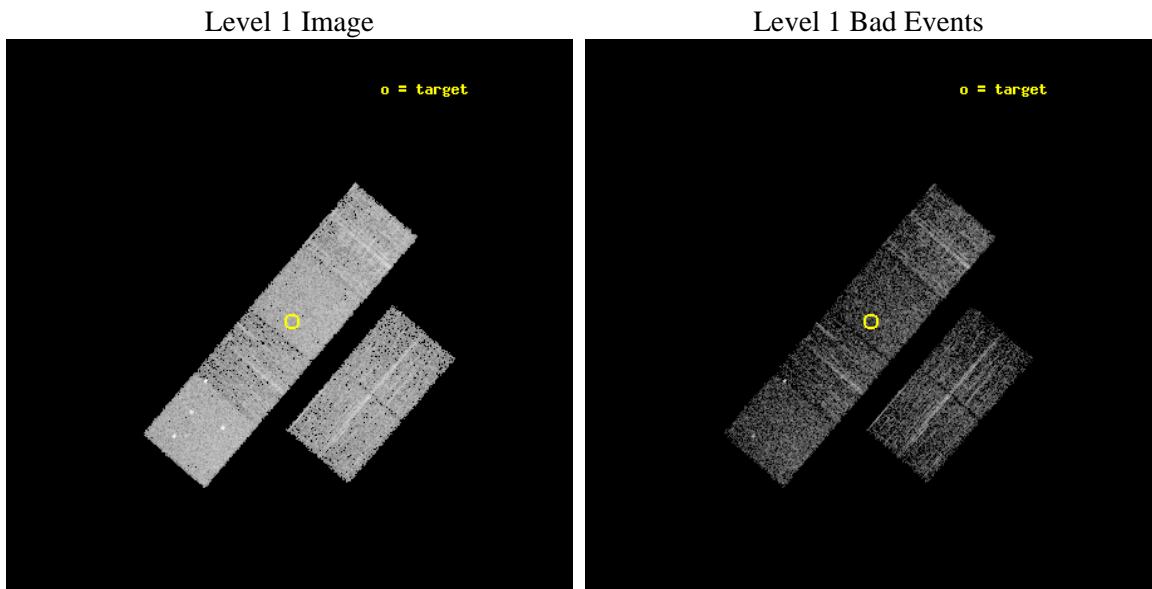
| | | |
|----------|--|---|
| seq_num | 900693 | Sequence number |
| obs_id | 8152 | Observation id |
| title | ChICAGO GTO: Chandra Identification of Compact ASCA Galactic Objects | |
| observer | Dr. Stephen Murray | Principal investigator |
| object | AX J155331-5347 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 238.382083 | Observer's specified target RA [deg] |
| dec_targ | -53.794 | Observer's specified target Dec [deg] |
| ra_nom | 238.39043598442 | Nominal RA [deg] |
| dec_nom | -53.795461600459 | Nominal Dec [deg] |
| roll_nom | 310.58369999476 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 2051.1999924183 | Sum of GTIs [s] |
| livetime | 2025.2264630299 | Livetime [s] |
| ontime2 | 2051.1999924183 | Sum of GTIs [s] |
| ontime3 | 2051.1999924183 | Sum of GTIs [s] |
| ontime5 | 2051.1999924183 | Sum of GTIs [s] |
| ontime6 | 2051.1999924183 | Sum of GTIs [s] |
| ontime7 | 2051.1999924183 | Sum of GTIs [s] |
| ontime8 | 2047.9590021372 | Sum of GTIs [s] |
| l2events | 33339 | Number of level 2 events |



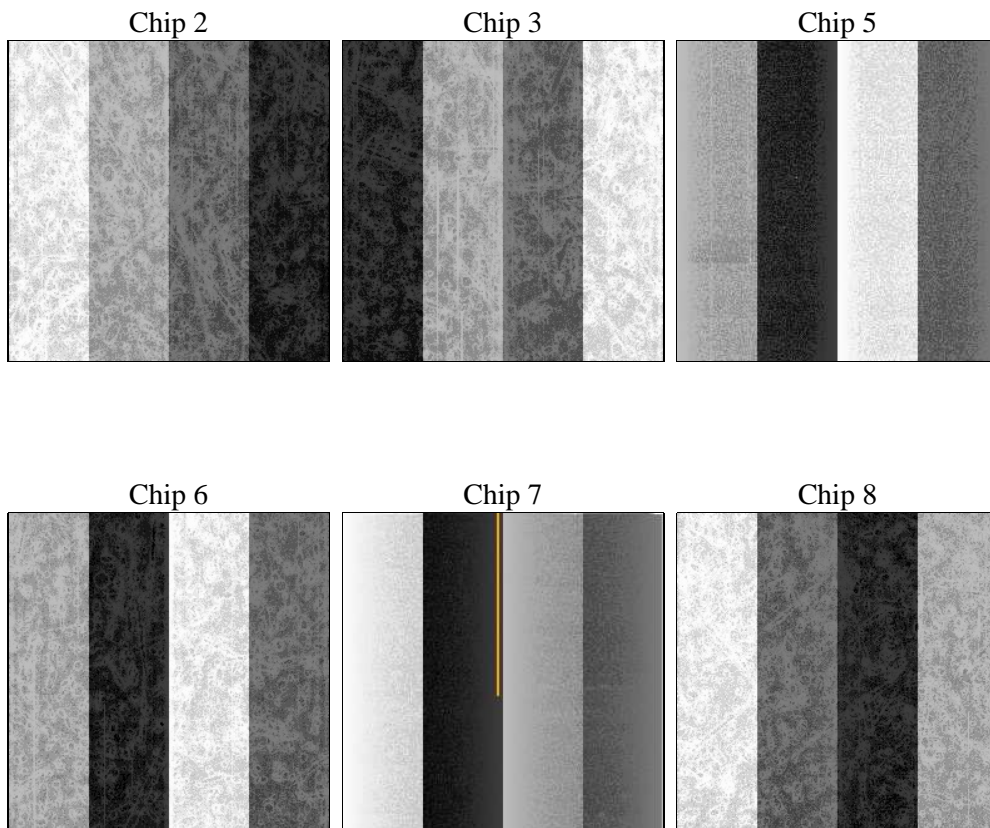
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2300.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 2051.1999924183 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime2 | 2051.1999924183 | Sum of GTIs [s] |
| date | 2012-04-27T01:25:10 | Date and time of file creation | ontime3 | 2051.1999924183 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 2051.1999924183 | Sum of GTIs [s] |
| | | | ontime6 | 2051.1999924183 | Sum of GTIs [s] |
| | | | ontime7 | 2051.1999924183 | Sum of GTIs [s] |
| | | | ontime8 | 2047.9590021372 | Sum of GTIs [s] |
| | | | l1events | 148763 | Number of level 1 events |

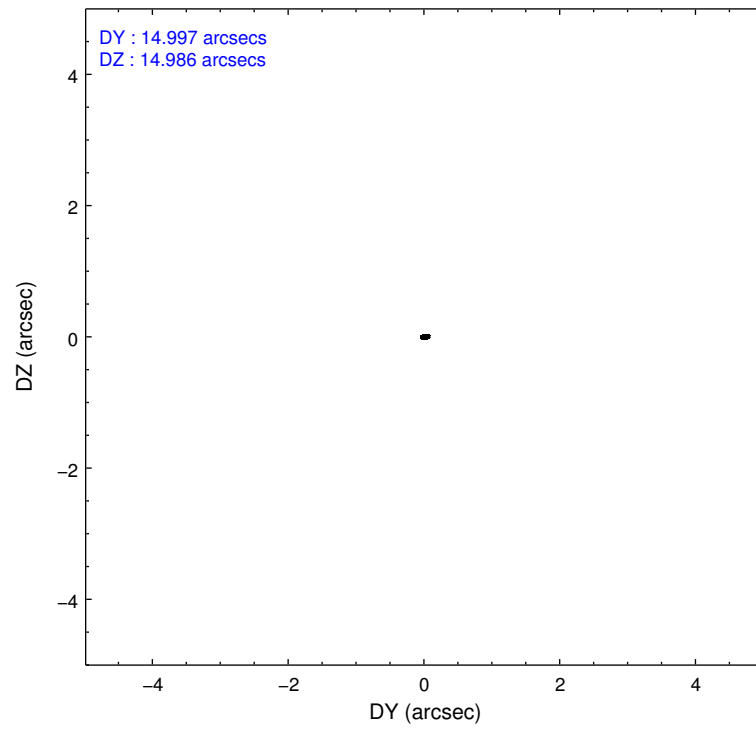
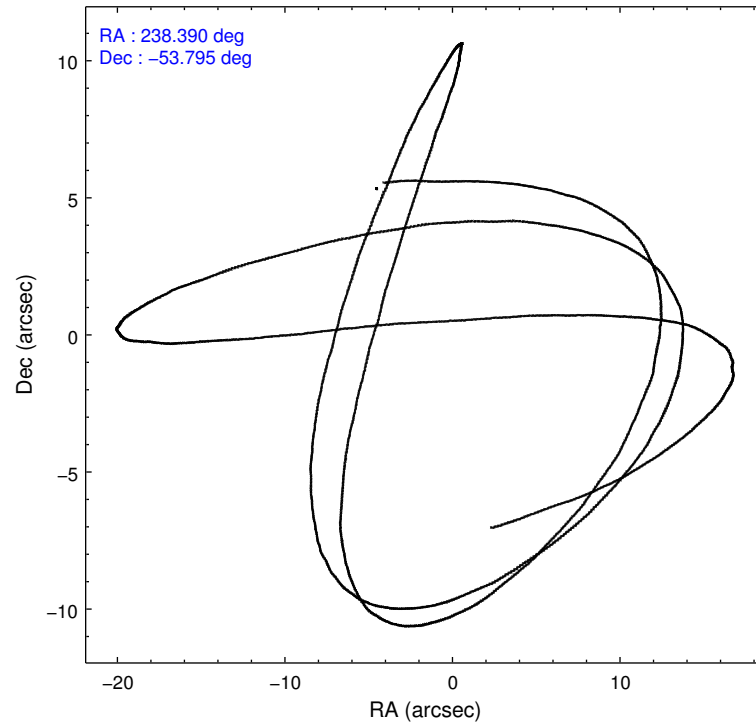
2.1.4 Events

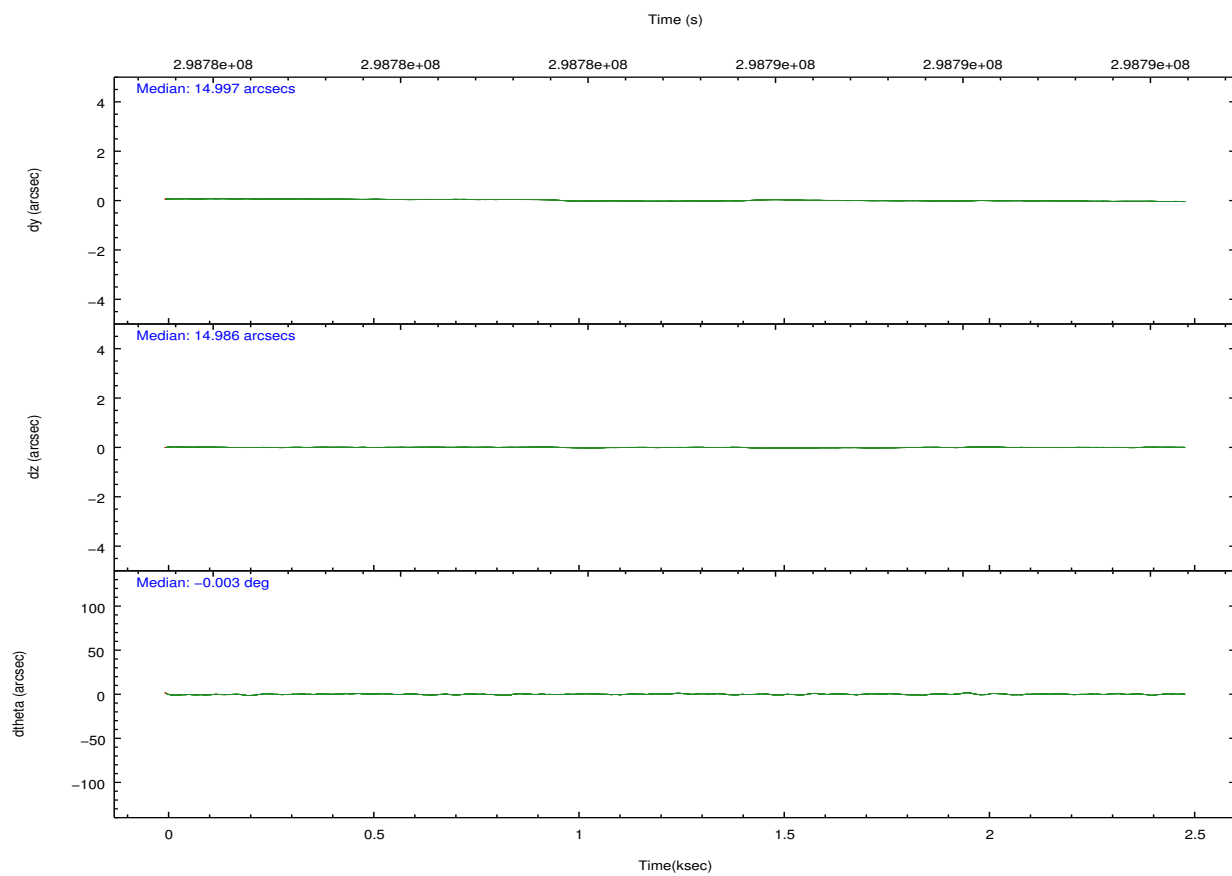
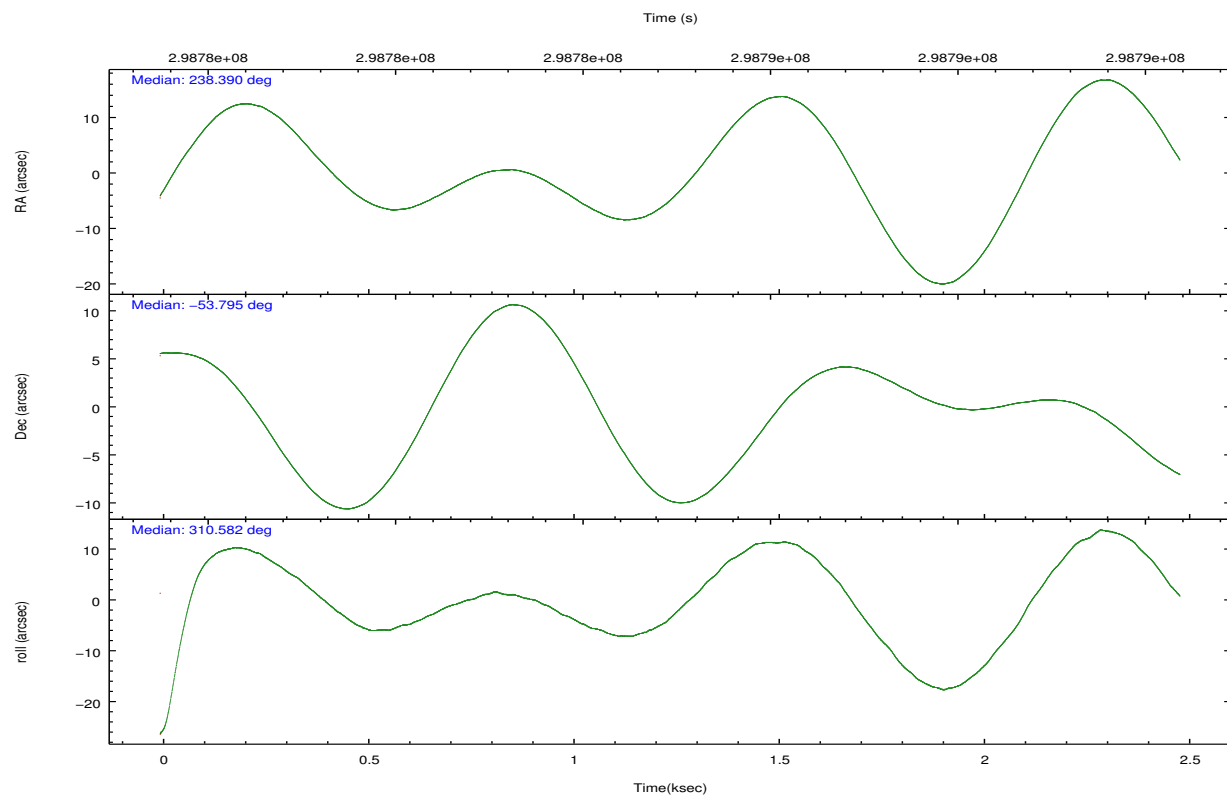
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 20769 | 18732 | 32571 | 19788 | 27898 | 29005 | grade 0 events | 1024 | 1018 | 1919 | 910 | 975 | 1733 |
| rejected events | 18439 | 16397 | 17345 | 17462 | 16156 | 23330 | | 4% | 5% | 5% | 4% | 3% | 5% |
| rejected % | 88% | 87% | 53% | 88% | 57% | 80% | grade 1 events | 21 | 19 | 106 | 11 | 20 | 33 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 493 | 454 | 4458 | 525 | 2350 | 1276 |
| | | | | | | | | 2% | 2% | 13% | 2% | 8% | 4% |
| | | | | | | | grade 3 events | 219 | 226 | 559 | 203 | 1067 | 612 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 4 events | 210 | 240 | 531 | 218 | 976 | 537 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 1% |
| | | | | | | | grade 5 events | 815 | 899 | 2364 | 932 | 2586 | 1227 |
| | | | | | | | | 3% | 4% | 7% | 4% | 9% | 4% |
| | | | | | | | grade 6 events | 388 | 405 | 7813 | 477 | 6412 | 1534 |
| | | | | | | | | 1% | 2% | 23% | 2% | 22% | 5% |
| | | | | | | | grade 7 events | 17599 | 15471 | 14821 | 16512 | 13512 | 22053 |
| | | | | | | | | 84% | 82% | 45% | 83% | 48% | 76% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 238.346037 | 238.3904359844236 | CCD I2 on | O2 | Y |
| [deg] Pointing Dec | -53.786734 | -53.79546160045941 | CCD I3 on | O3 | Y |
| [deg] Pointing Roll | 310.391357 | 310.583699994762 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | O1 | Y |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | O5 | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | CCD S4 on | O4 | Y |
| [s] Observation start time (MET) | 298784176.184000 | 298783673.03407 | CCD S5 on | N | N |
| Observation start date | 2007-06-21T03:35:11 | 2007-06-21T03:27:53 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 298786476.184000 | 298786660.90921 | On-chip summing requested | N | N |
| Observation end date | 2007-06-21T04:13:31 | 2007-06-21T04:17:40 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.2 |

2.3 Aspect



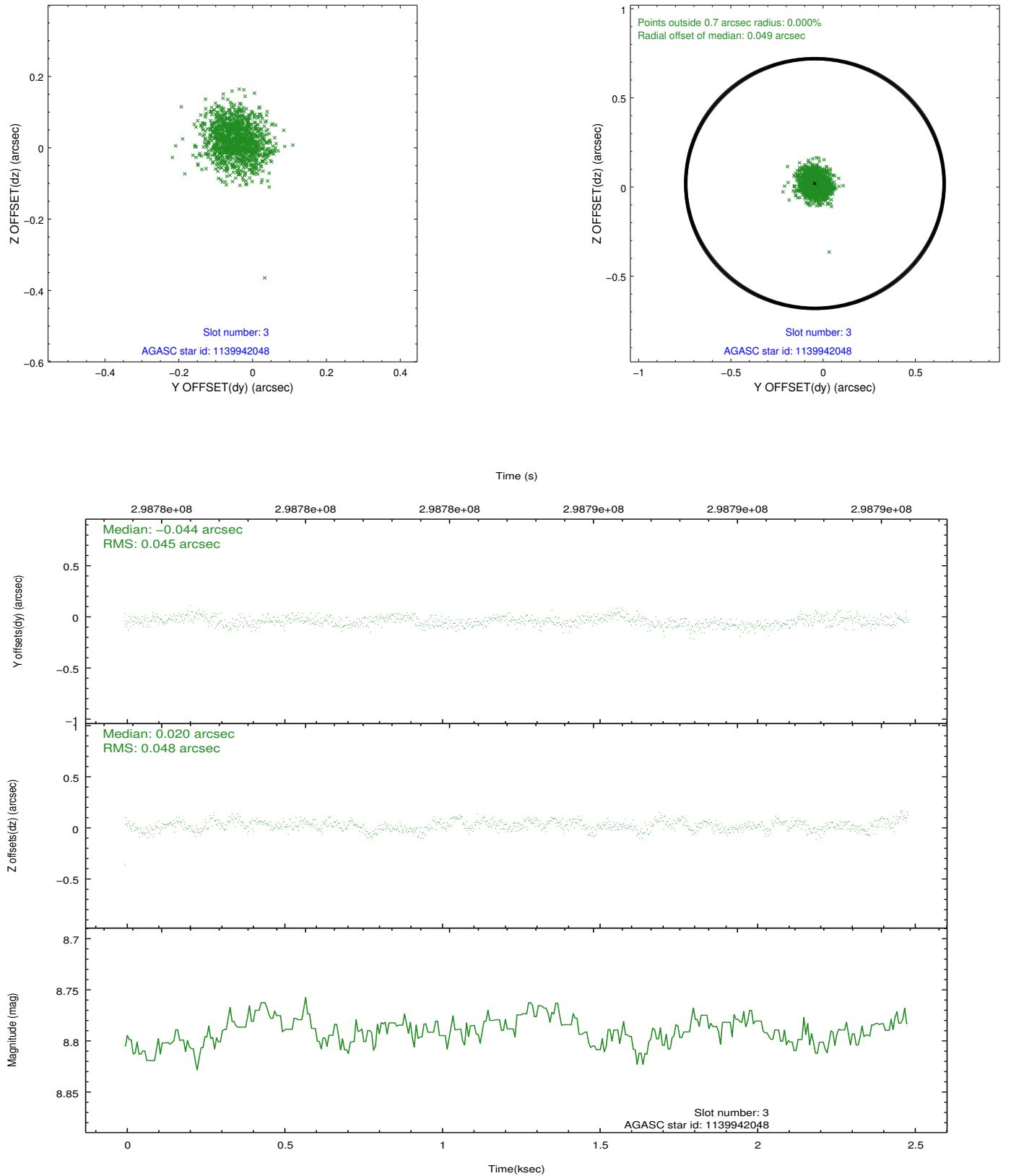


Slot Statistics

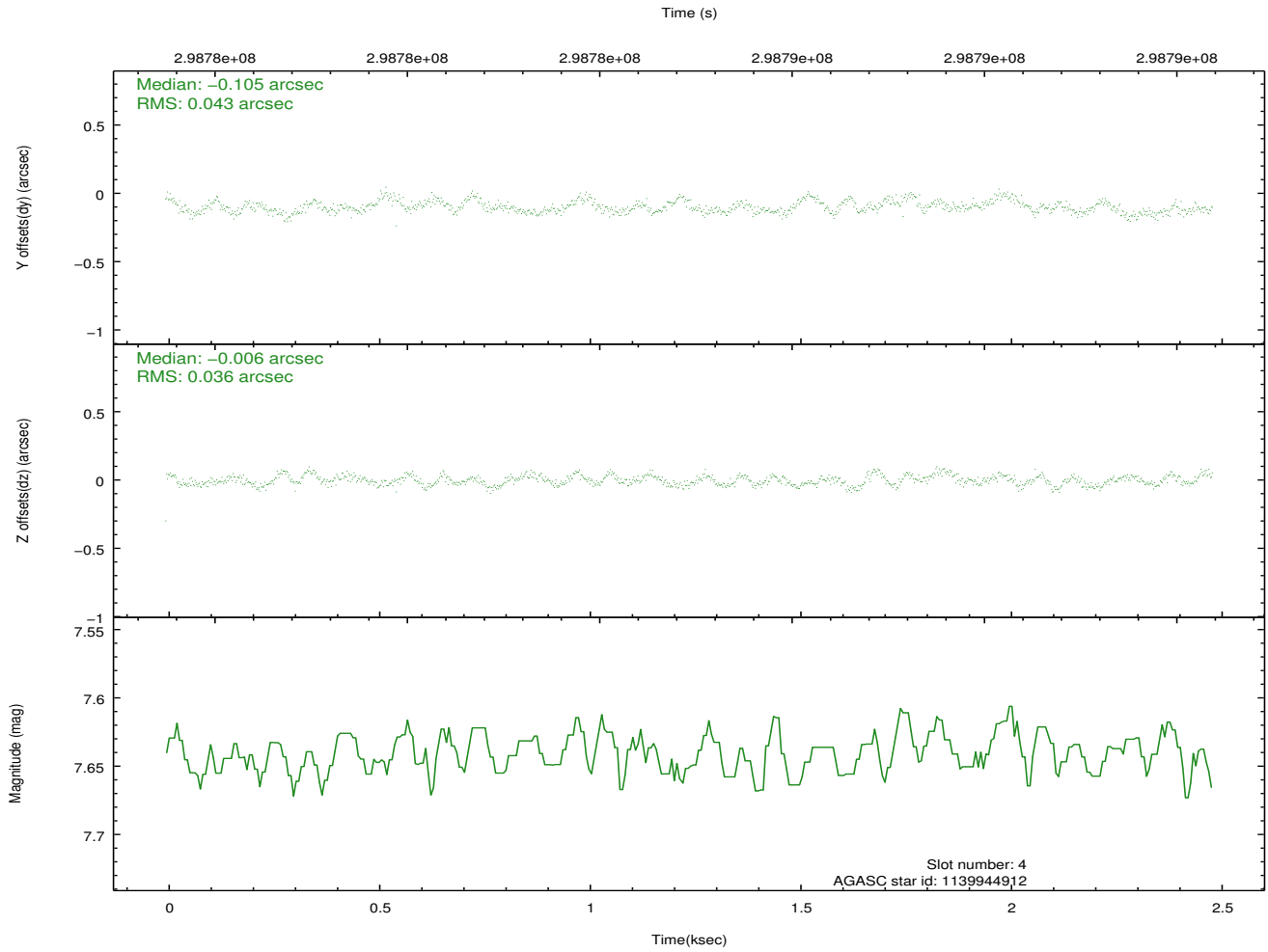
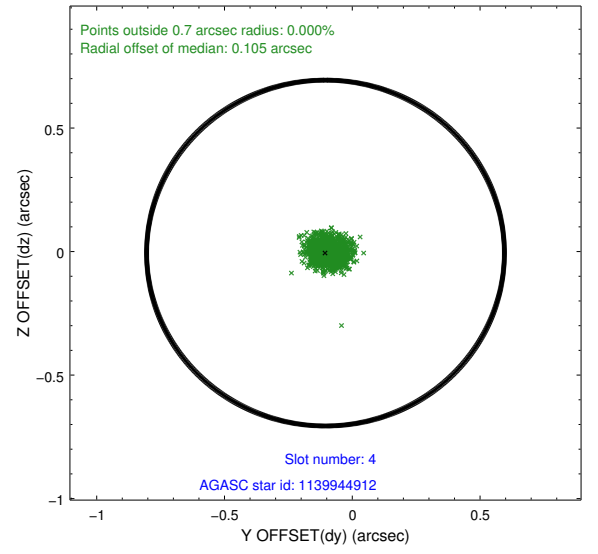
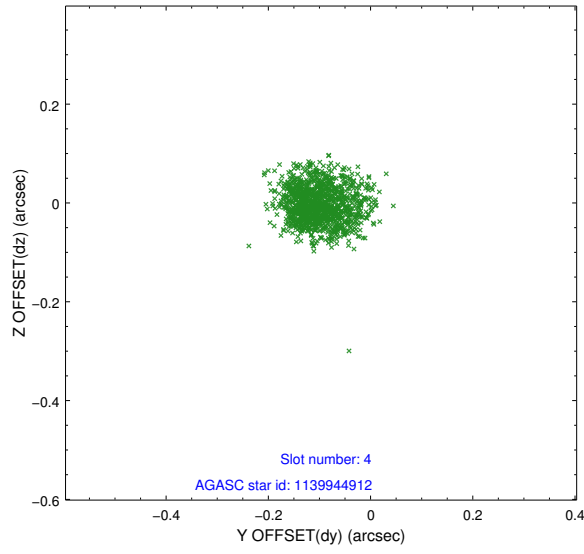
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.09 | 606 | -0.147 | -0.103 | 0.005 | 0.009 | 0.000000 | 0.000000 | -768.15 | -1736.45 |
| 1 | FID | ACIS-S-4 | 7.20 | 607 | 0.159 | 0.075 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2144.26 | 169.46 |
| 2 | FID | ACIS-S-6 | 7.34 | 607 | -0.040 | 0.035 | 0.007 | 0.010 | 0.000000 | 0.000000 | 397.31 | 809.81 |
| 3 | GUIDE | 1139942048 | 8.79 | 1213 | -0.044 | 0.020 | 0.070 | 0.110 | 237.828954 | -53.329495 | -1971.57 | 216.47 |
| 4 | GUIDE | 1139944912 | 7.64 | 1212 | -0.105 | -0.006 | 0.059 | 0.097 | 238.160189 | -53.437493 | -1217.69 | 510.14 |
| 5 | GUIDE | 1139945368 | 7.33 | 1213 | -0.082 | -0.018 | 0.057 | 0.085 | 239.183286 | -53.789004 | 1166.47 | 1343.87 |
| 6 | GUIDE | 1139945912 | 9.11 | 1210 | 0.113 | 0.023 | 0.090 | 0.142 | 238.361289 | -54.201826 | 1159.57 | -943.52 |
| 7 | GUIDE | 1139943192 | 8.49 | 1212 | 0.114 | -0.023 | 0.062 | 0.105 | 239.465782 | -53.757522 | 1479.12 | 1869.31 |

2.4 Star Slots

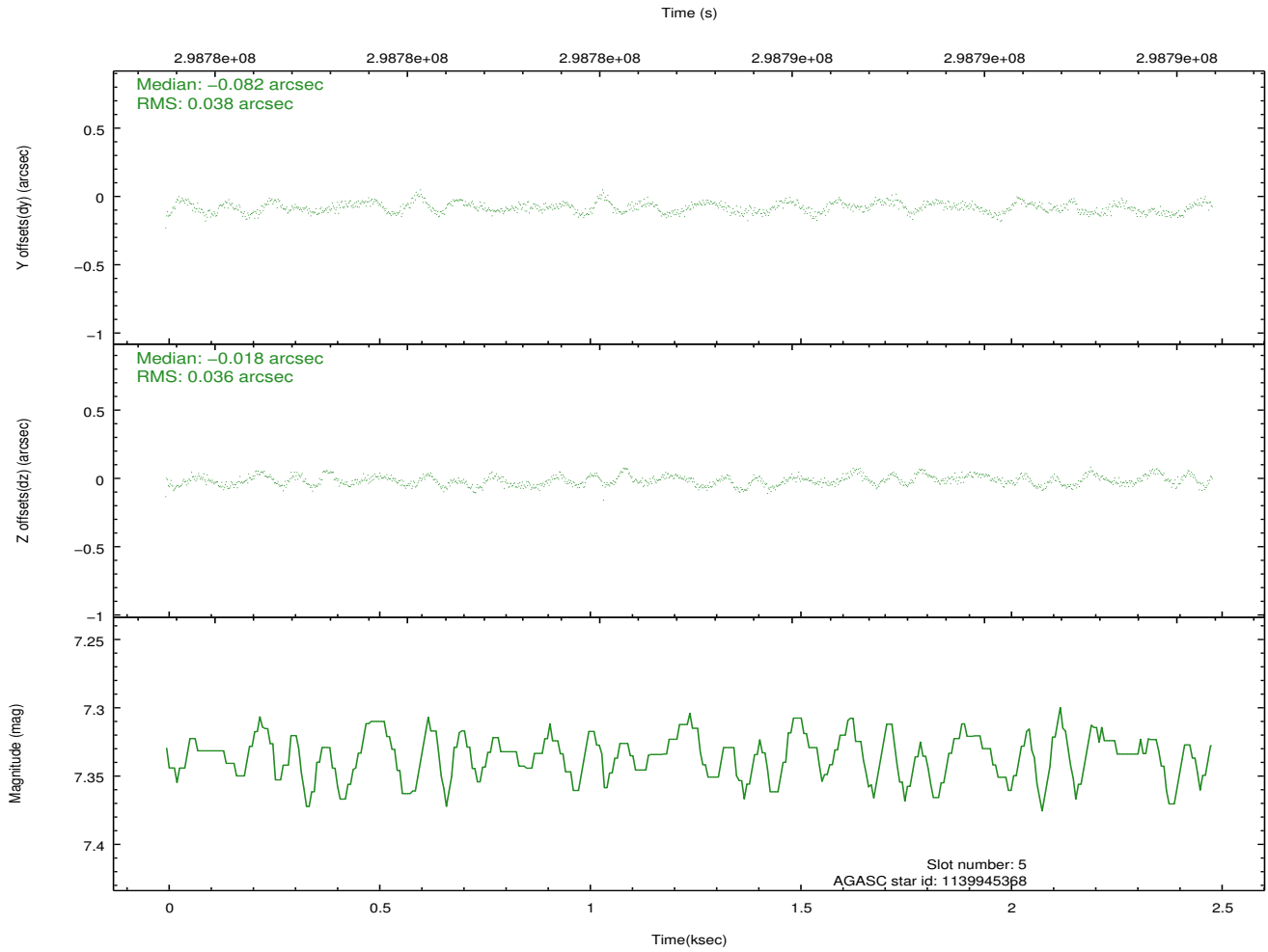
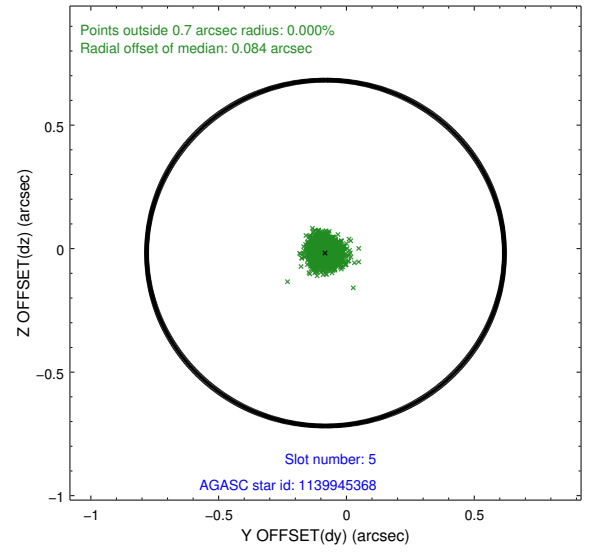
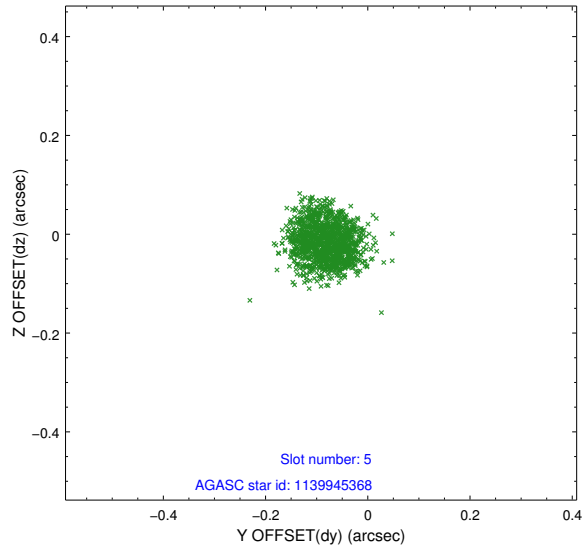
2.4.1 Slot 3



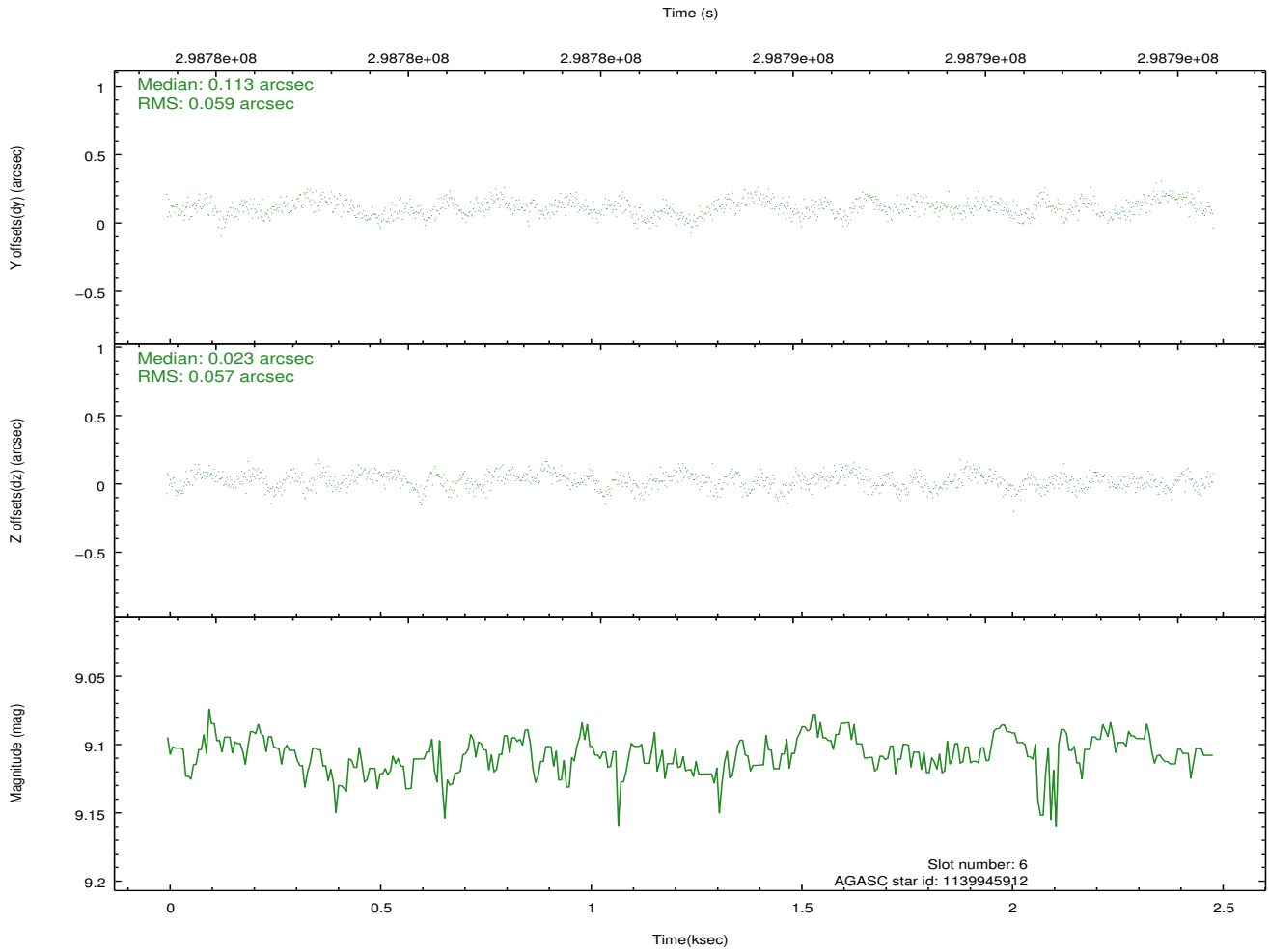
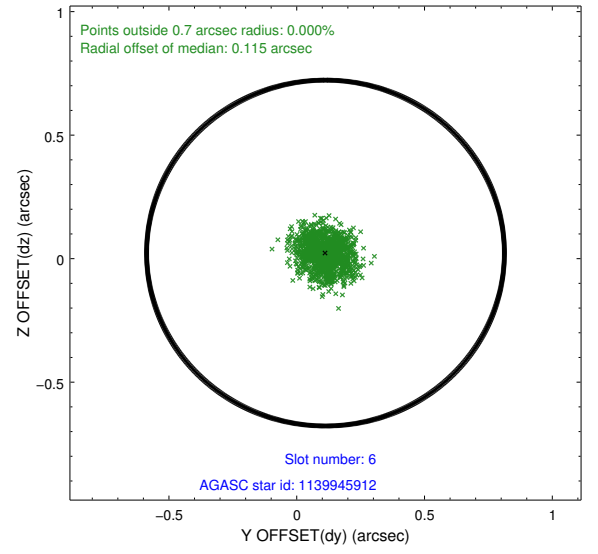
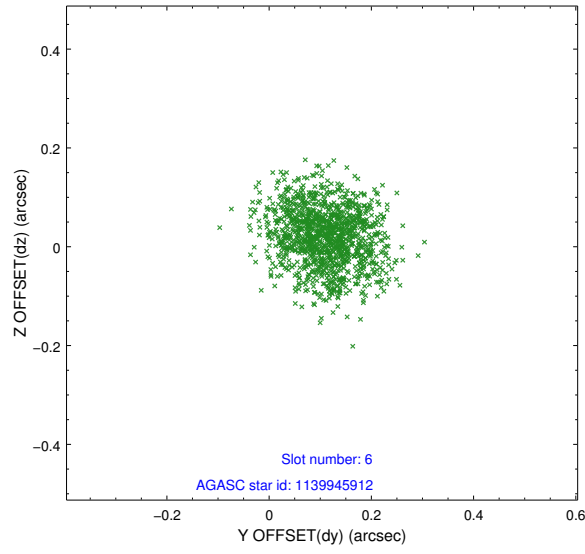
2.4.2 Slot 4



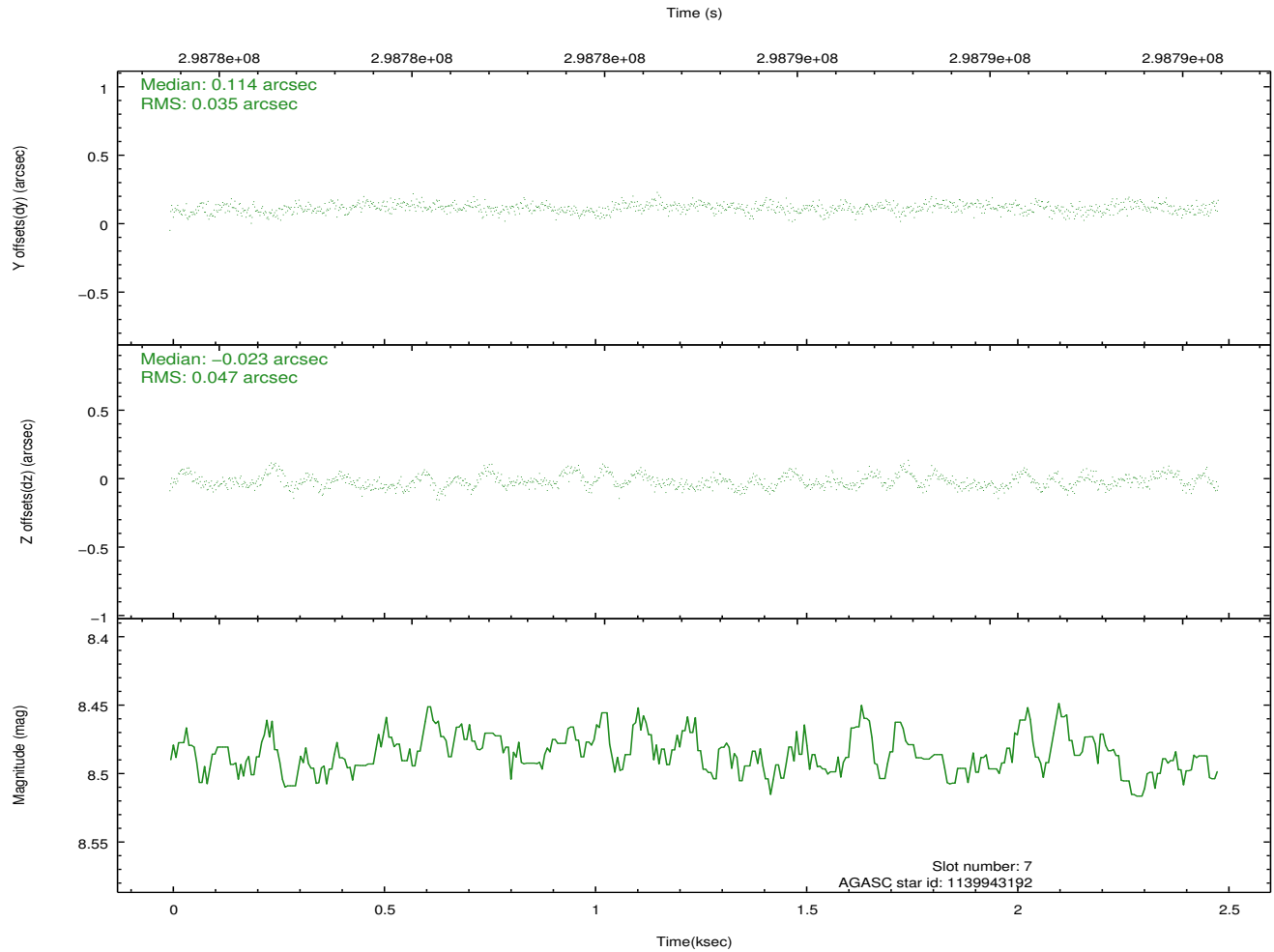
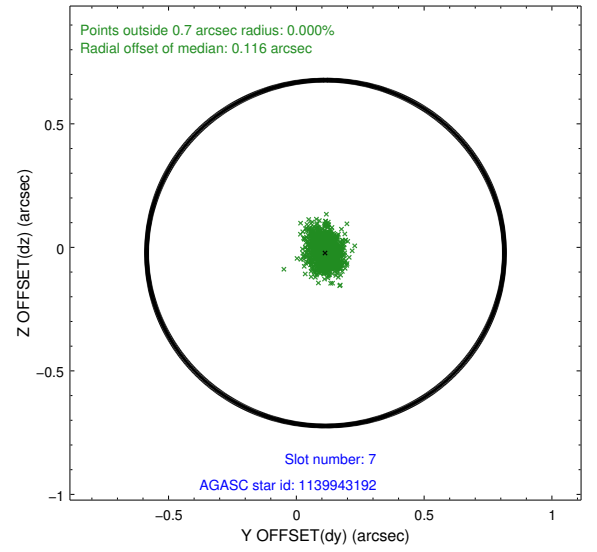
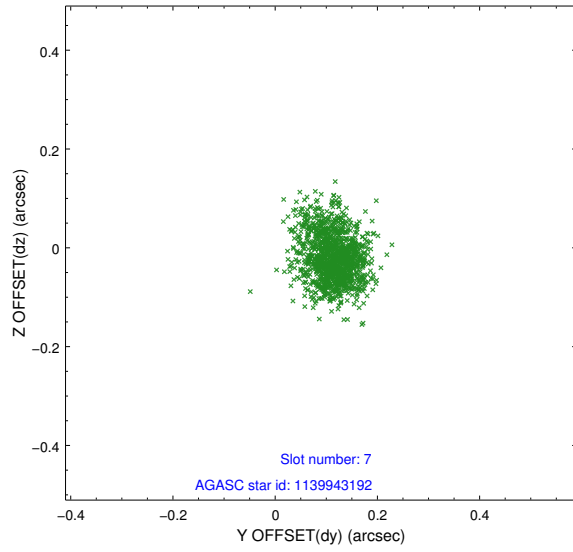
2.4.3 Slot 5



2.4.4 Slot 6

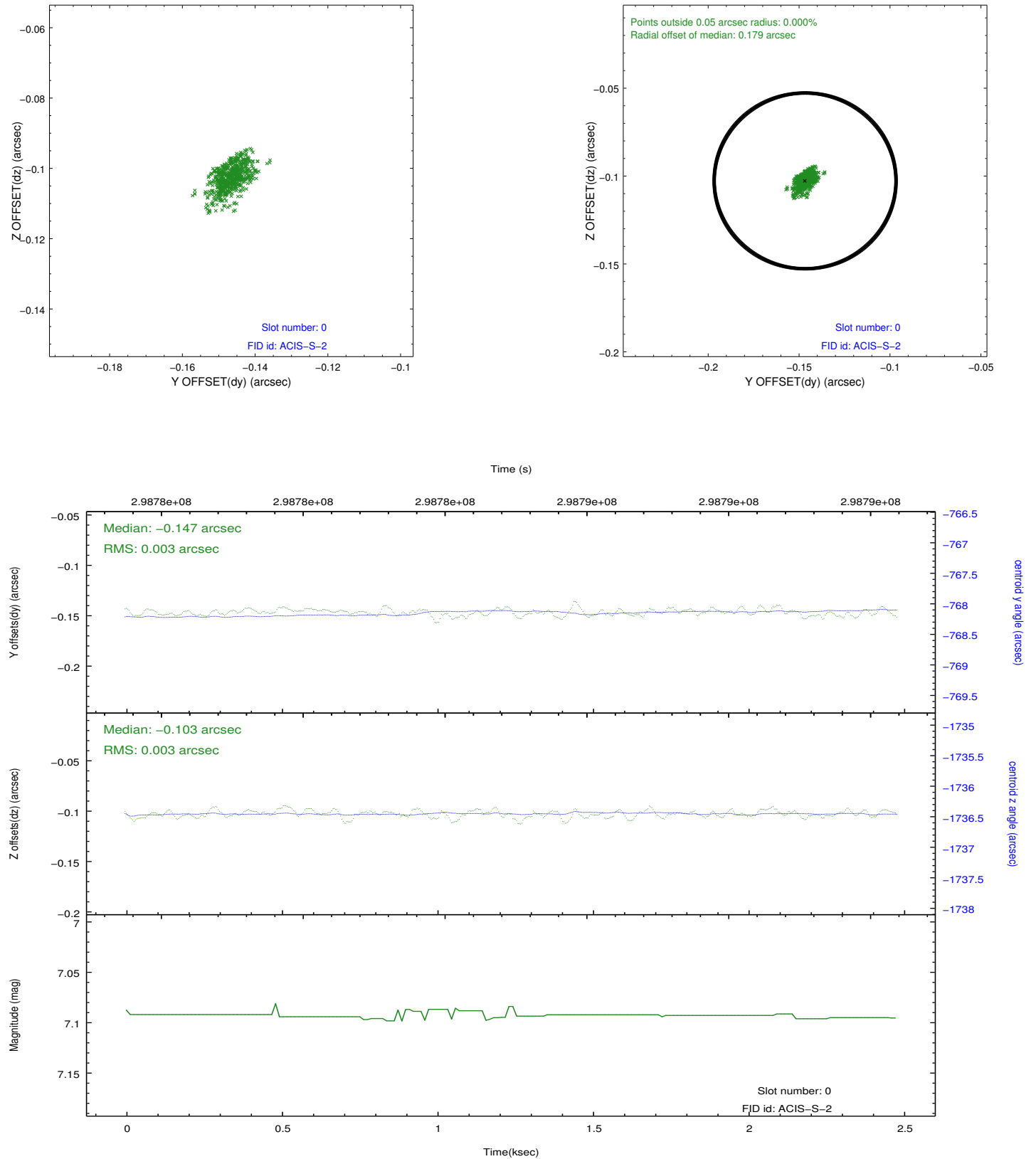


2.4.5 Slot 7

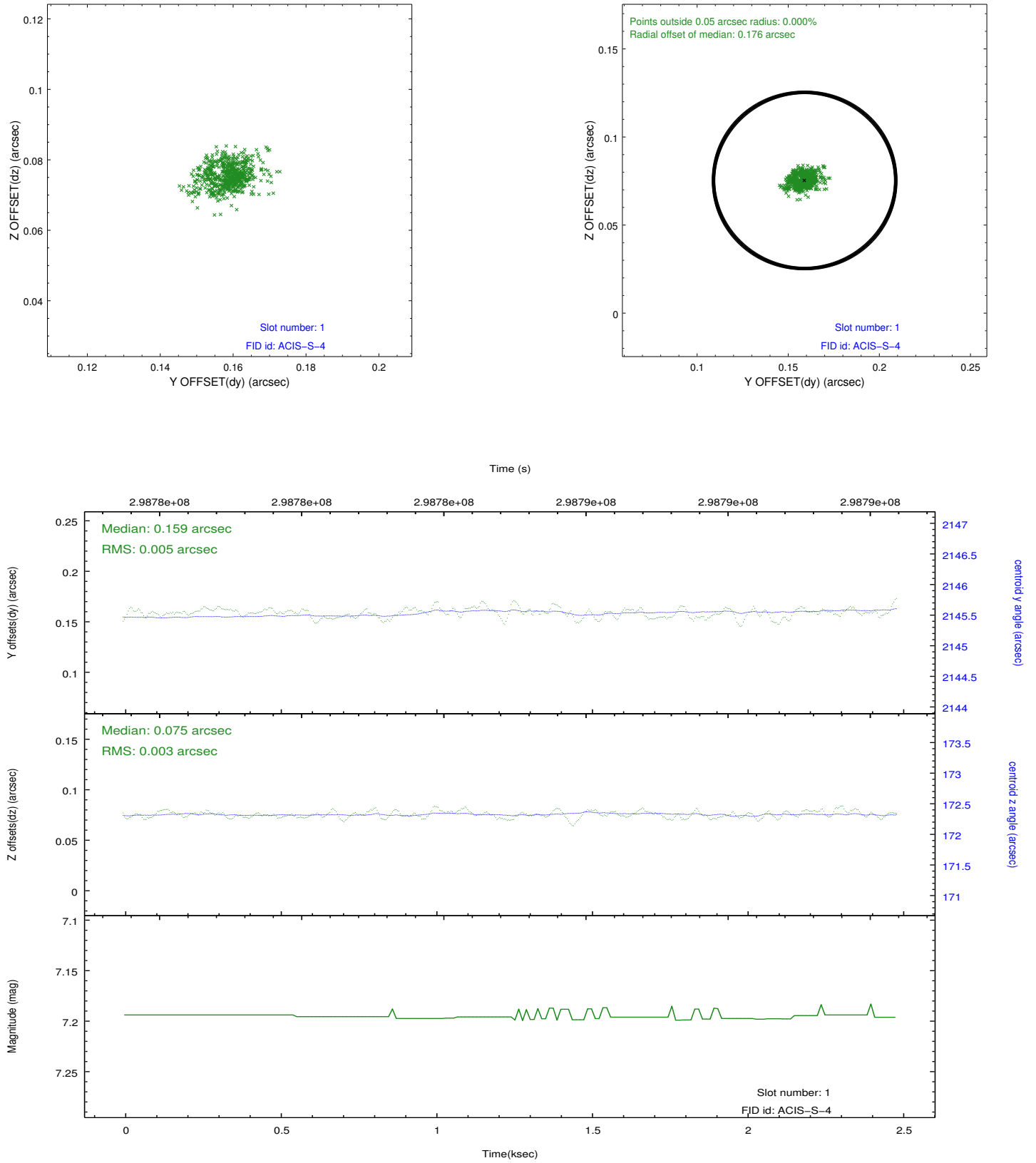


2.5 FID Slots

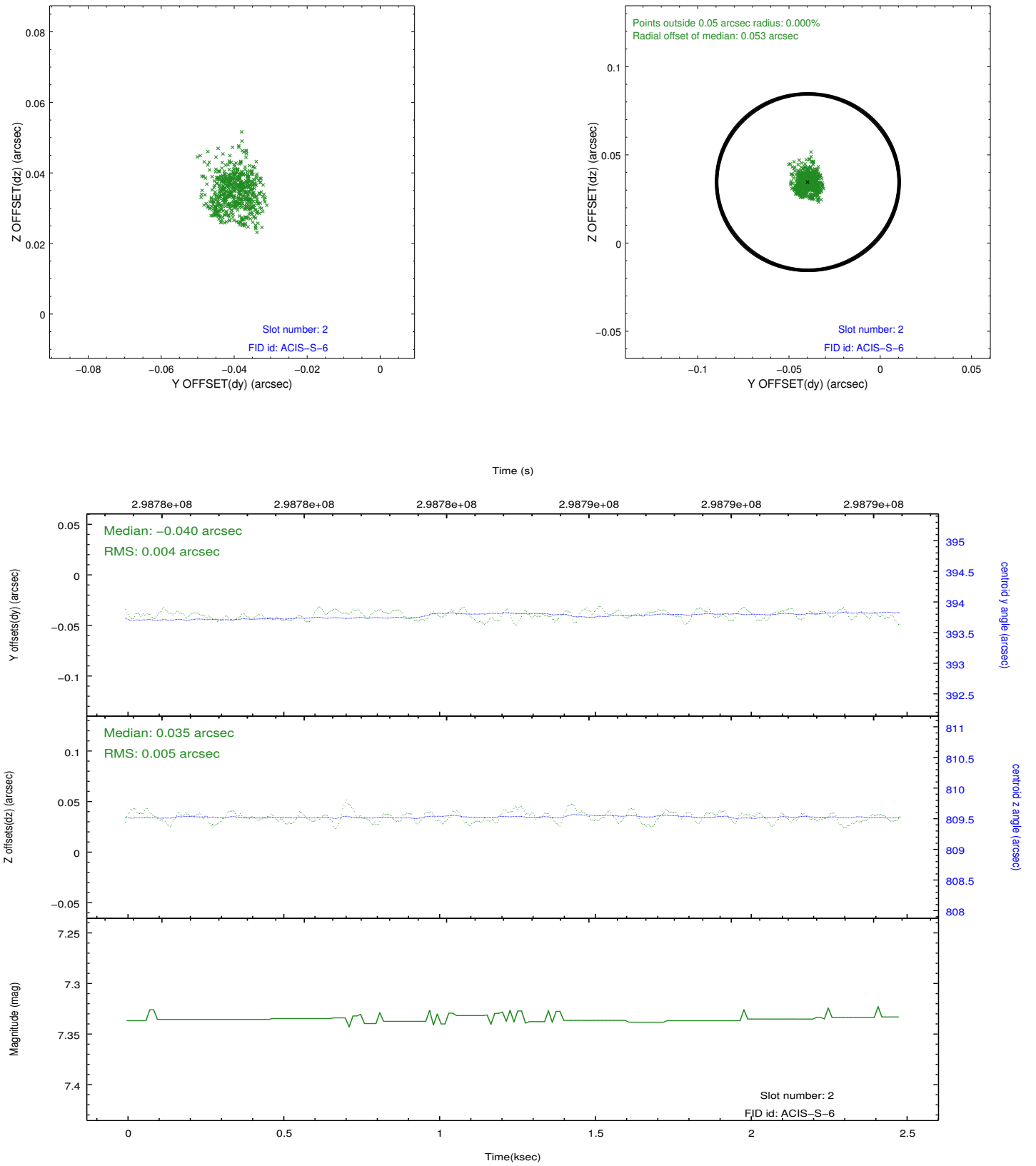
2.5.1 Slot 0



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) | 2012.04.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.05119999 |

A.2 Comments