

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3188 - L2 Version 3
Chandra X-Ray Center

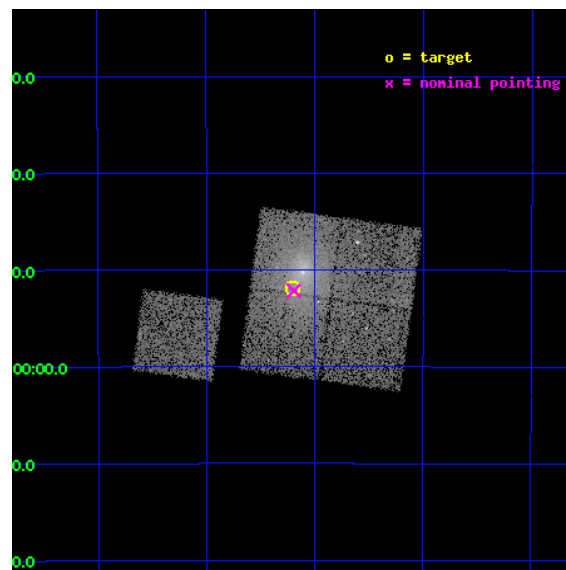
L2 Processing Date : Oct 3 2012

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1 Front

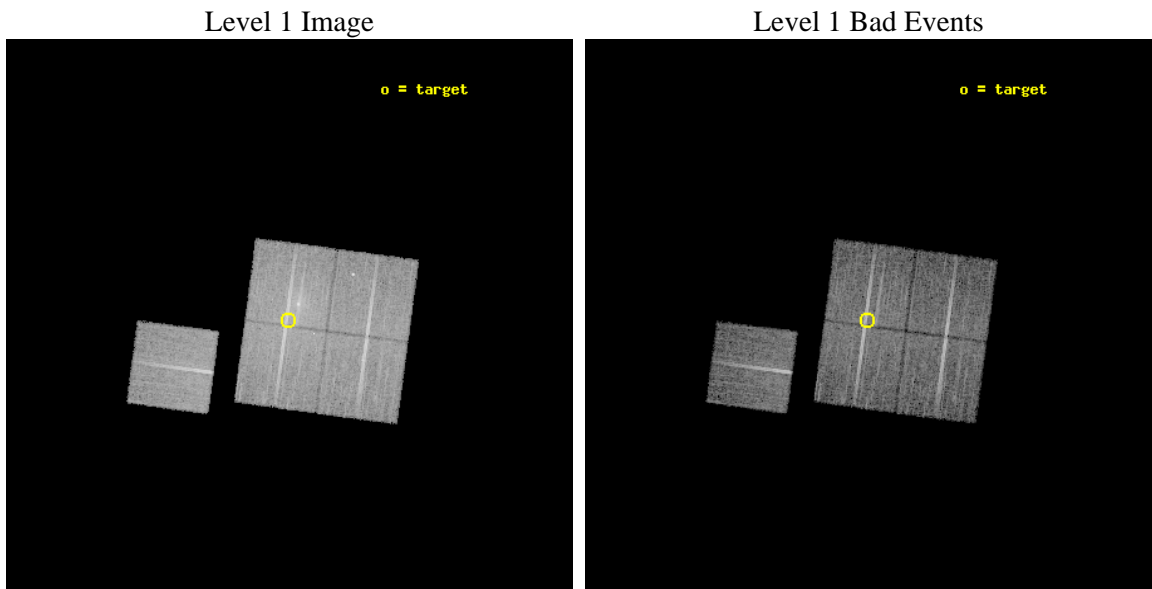
| | | |
|----------|-----------------------------------------------------------|---------------------------------------------|
| seq_num | 800188 | Sequence number |
| obs_id | 3188 | Observation id |
| title | OLEGS OR FOSSIL GROUPS -- STUDYING EVOLVED GALAXY SYSTEMS | Proposal |
| observer | Dr. Stephen Murray | Principal investigator |
| object | ESO3060170-B | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 85.05 | Observer's specified target RA [deg] |
| dec_targ | -40.865 | Observer's specified target Dec [deg] |
| ra_nom | 85.048366037635 | Nominal RA [deg] |
| dec_nom | -40.869492694849 | Nominal Dec [deg] |
| roll_nom | 277.67710169665 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 14176.258982584 | Sum of GTIs [s] |
| livetime | 13991.035722566 | Livetime [s] |
| ontime0 | 14173.485843569 | Sum of GTIs [s] |
| ontime1 | 14176.258982554 | Sum of GTIs [s] |
| ontime2 | 14179.399972737 | Sum of GTIs [s] |
| ontime3 | 14176.258982584 | Sum of GTIs [s] |
| ontime6 | 14179.399972737 | Sum of GTIs [s] |
| l2events | 55434 | Number of level 2 events |



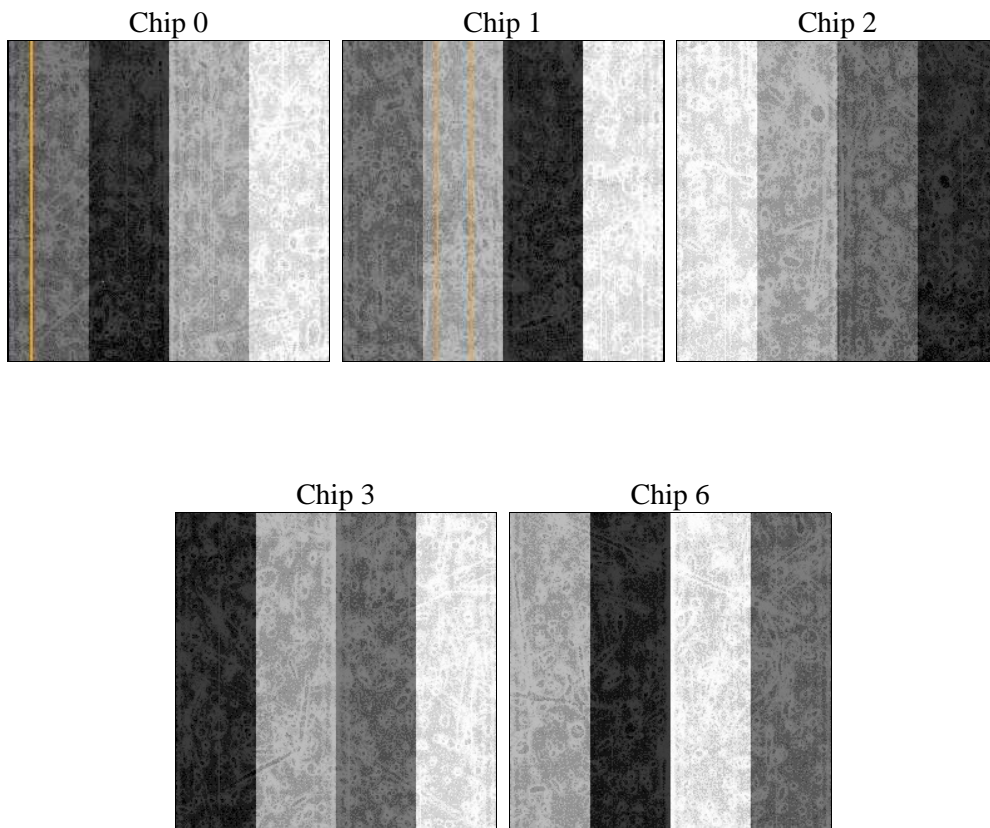
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-----------------------------------------|
| obi_num | 1 | Obi number | sched_exp_time | 14000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 14176.258982584 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 14173.485843569 | Sum of GTIs [s] |
| date | 2012-10-03T03:41:21 | Date and time of file creation | ontime1 | 14176.258982554 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 14179.399972737 | Sum of GTIs [s] |
| | | | ontime3 | 14176.258982584 | Sum of GTIs [s] |
| | | | ontime6 | 14179.399972737 | Sum of GTIs [s] |
| | | | l1events | 444528 | Number of level 1 events |

2.1.4 Events

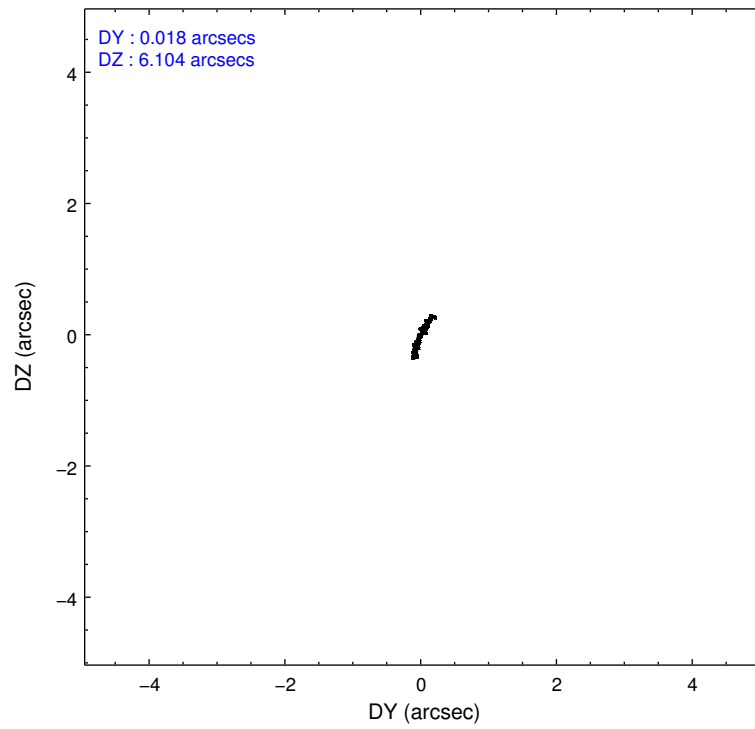
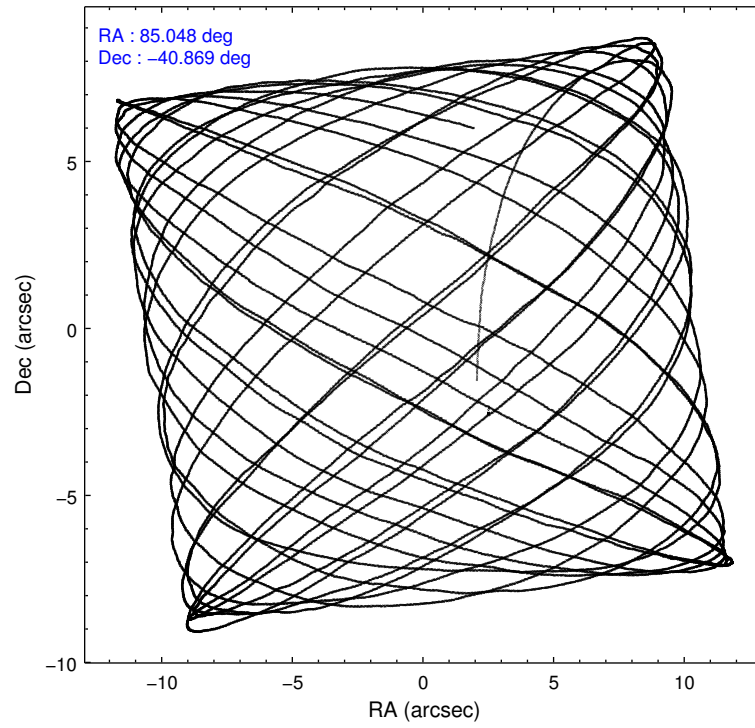
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|--------|-------|
| level 1 events | 81459 | 80363 | 93445 | 104510 | 84751 |
| rejected events | 72583 | 69389 | 81296 | 80953 | 76507 |
| rejected % | 89% | 86% | 86% | 77% | 90% |

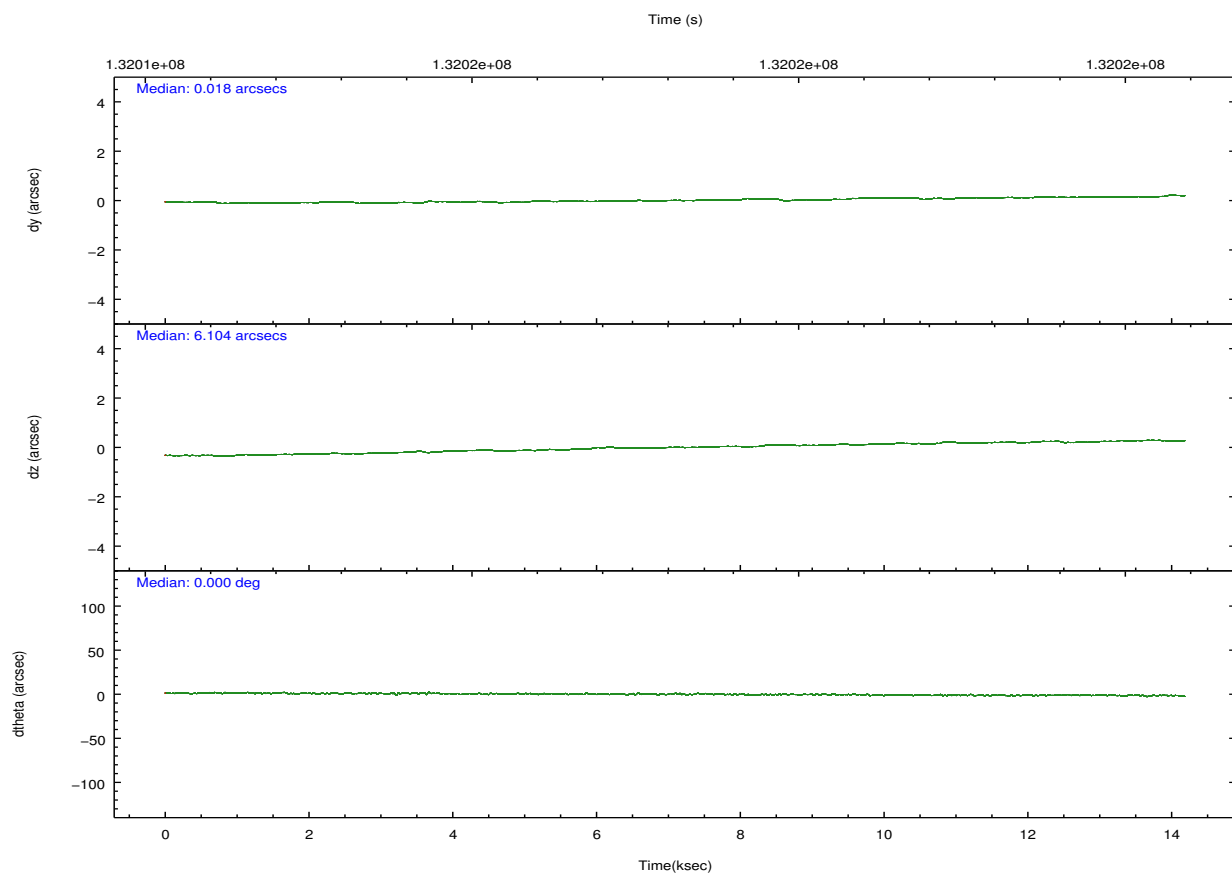
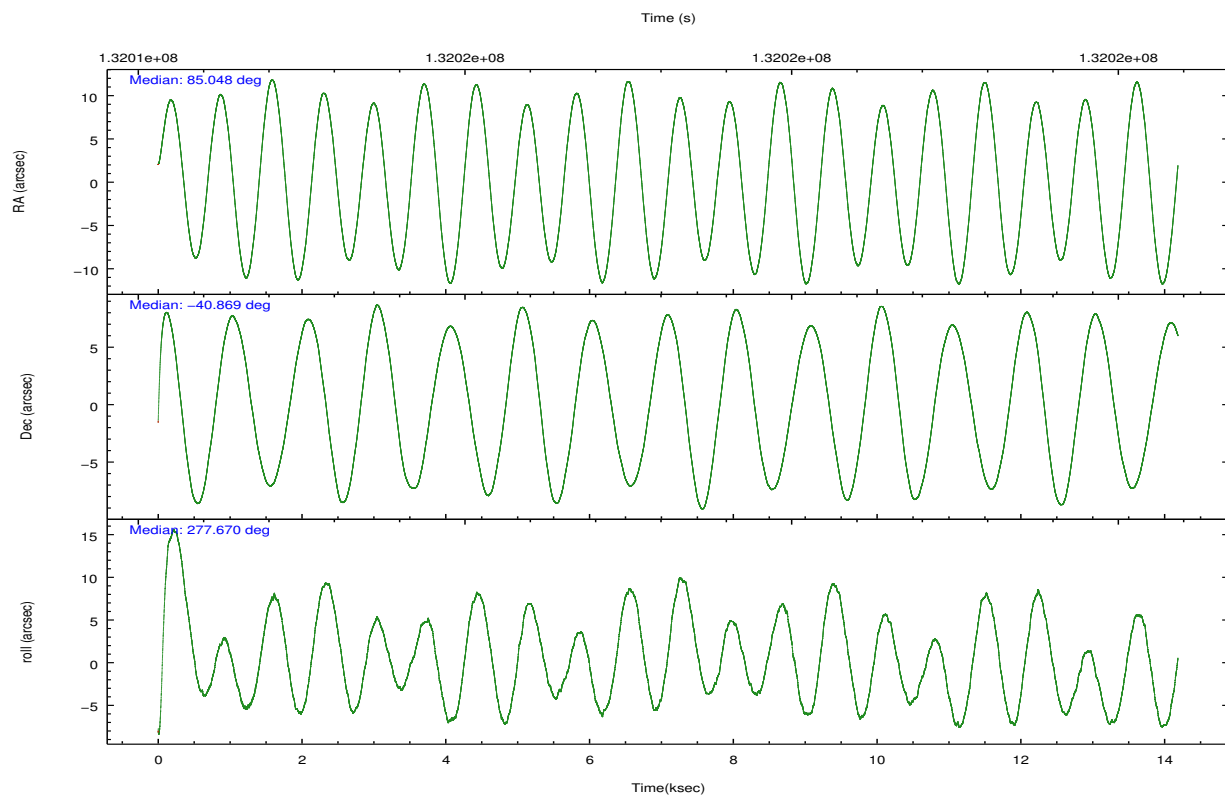
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 3675 | 5238 | 6483 | 16210 | 3119 |
| | 4% | 6% | 6% | 15% | 3% |
| grade 1 events | 33 | 53 | 57 | 100 | 38 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1957 | 2079 | 2289 | 3165 | 1740 |
| | 2% | 2% | 2% | 3% | 2% |
| grade 3 events | 998 | 1092 | 986 | 1273 | 931 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 863 | 1075 | 1023 | 1322 | 947 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 2658 | 2961 | 2511 | 3025 | 3029 |
| | 3% | 3% | 2% | 2% | 3% |
| grade 6 events | 1583 | 1769 | 1621 | 1934 | 1725 |
| | 1% | 2% | 1% | 1% | 2% |
| grade 7 events | 69692 | 66096 | 78475 | 77481 | 73222 |
| | 85% | 82% | 83% | 74% | 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 | 85.026144 | 85.04836603763479 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -40.847866 | -40.86949269484948 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 277.453897 | 277.6771016966537 | [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 | -223.592463 | -223.5905168218261 | | | |
| [mm] SIM translation stage offset | -10 | -10.00193618110356 | | | |
| [s] Observation start time (MET) | 132011201.184000 | 132010020.73237 | | | |
| Observation start date | 2002-03-08T21:45:37 | 2002-03-08T21:27:00 | | | |
| [s] Observation end time (MET) | 132025201.184000 | 132025346.02049 | | | |
| Observation end date | 2002-03-09T01:38:57 | 2002-03-09T01:42:26 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



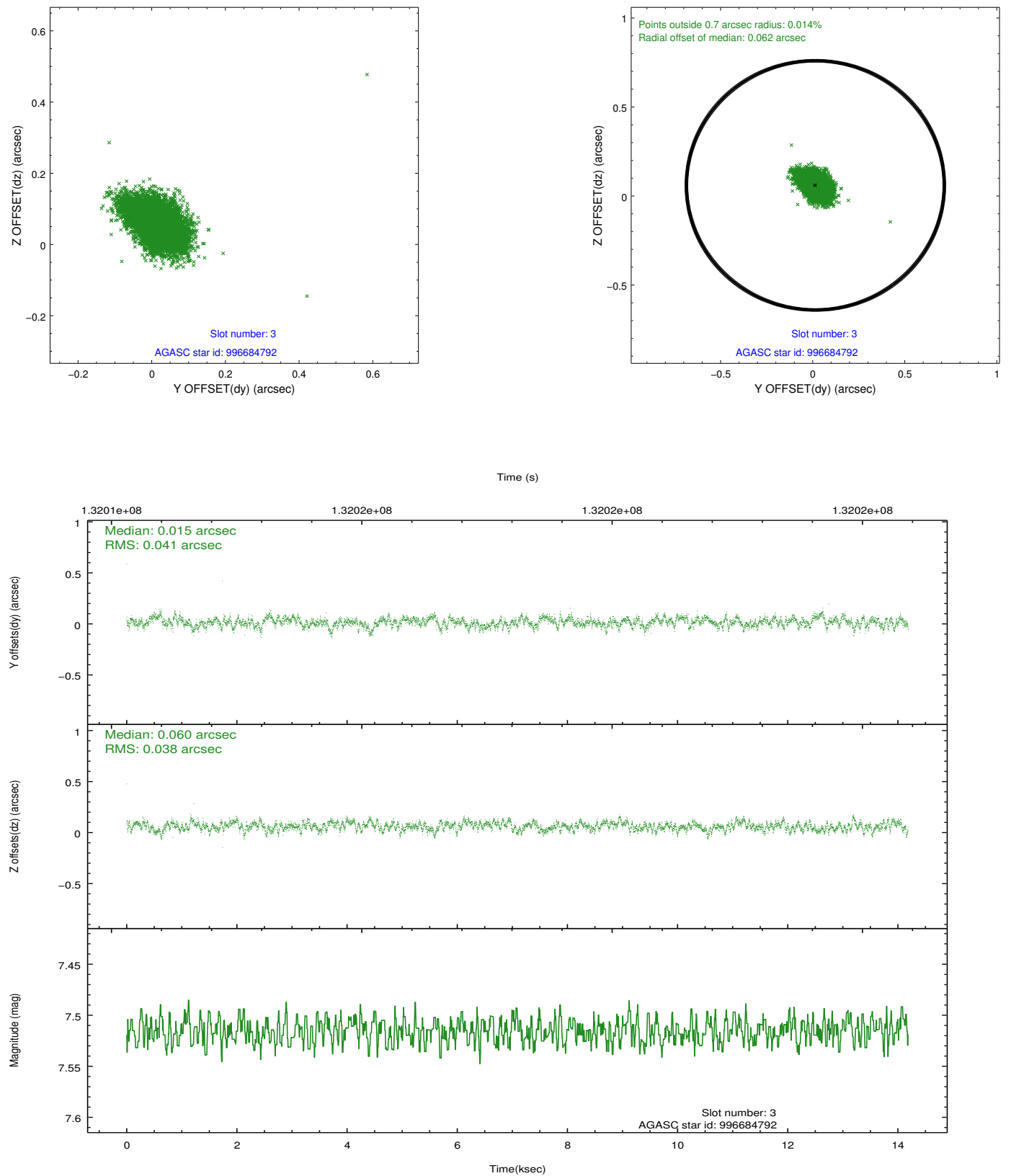


Slot Statistics

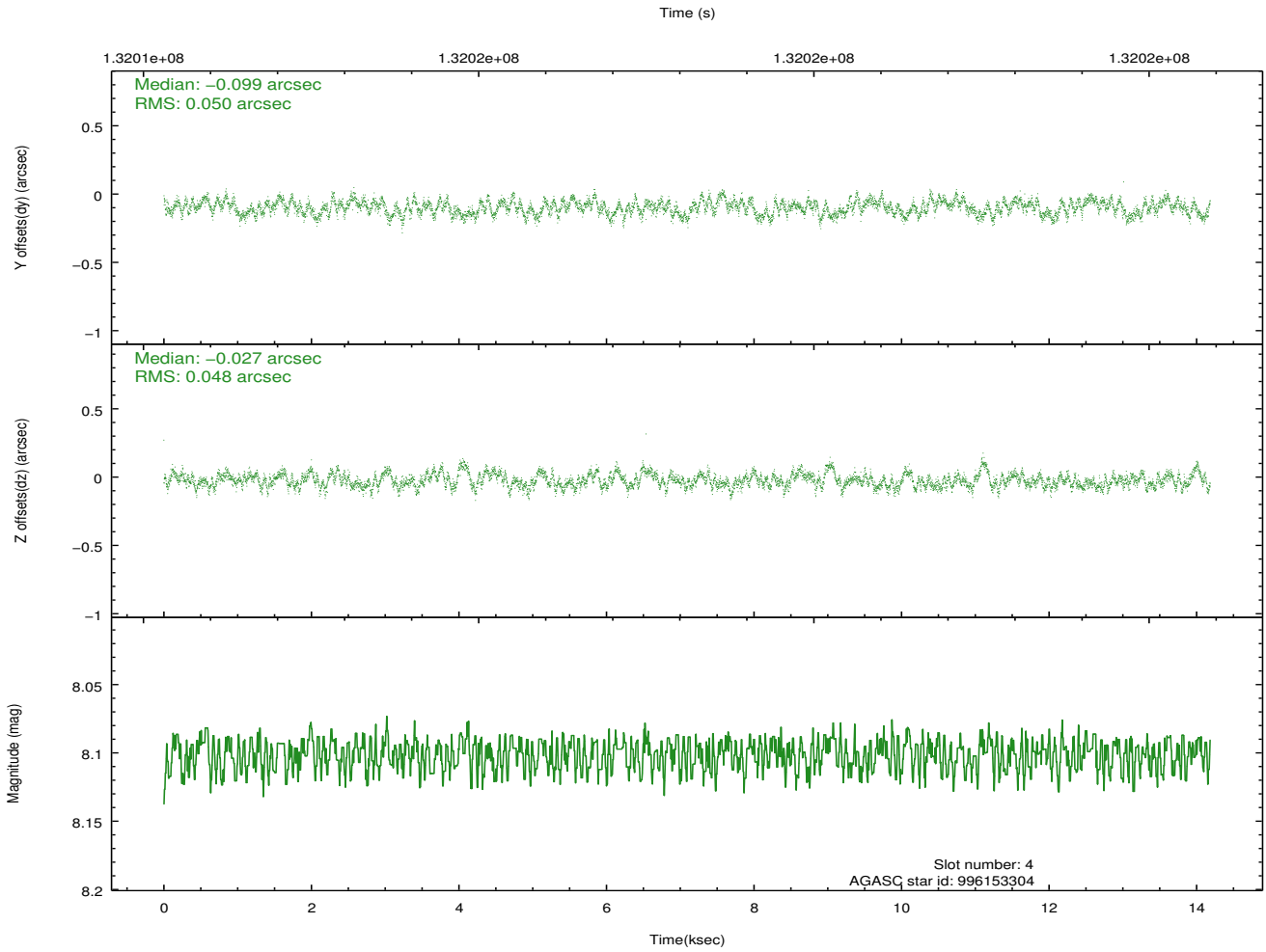
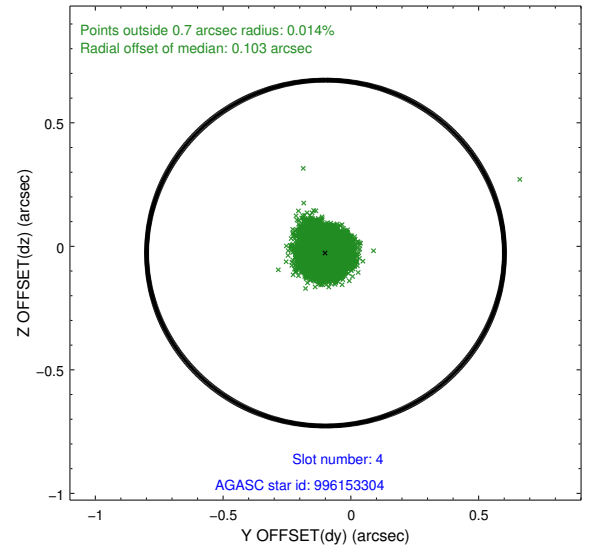
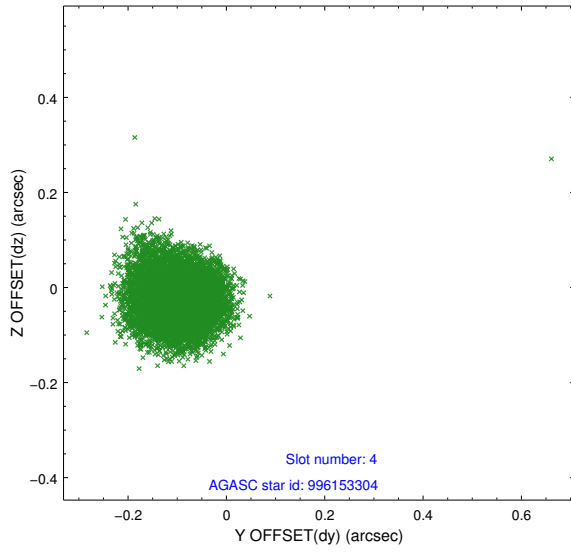
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.22 | 3461 | 0.116 | -0.048 | 0.008 | 0.014 | 0.000000 | 0.000000 | 939.73 | -1034.90 |
| 1 | FID | ACIS-I-5 | 7.23 | 3461 | -0.260 | 0.108 | 0.008 | 0.013 | 0.000000 | 0.000000 | -1808.50 | 862.63 |
| 2 | FID | ACIS-I-6 | 7.26 | 3461 | 0.053 | 0.011 | 0.009 | 0.015 | 0.000000 | 0.000000 | 404.95 | 1507.33 |
| 3 | GUIDE | 996684792 | 7.52 | 6921 | 0.015 | 0.060 | 0.057 | 0.098 | 84.983704 | -41.514257 | 2364.51 | -424.22 |
| 4 | GUIDE | 996153304 | 8.10 | 6918 | -0.099 | -0.027 | 0.075 | 0.115 | 84.449102 | -41.163019 | 928.19 | -1698.42 |
| 5 | UNUSED | | 0.00 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000000 | 0.000000 | 0.00 | 0.00 |
| 6 | GUIDE | 996282616 | 9.15 | 6919 | -0.027 | 0.061 | 0.103 | 0.165 | 85.789633 | -40.160851 | -2170.68 | 2402.37 |
| 7 | GUIDE | 996283920 | 10.45 | 6908 | 0.103 | -0.092 | 0.155 | 0.253 | 85.024860 | -40.406951 | -1574.09 | 202.58 |

2.4 Star Slots

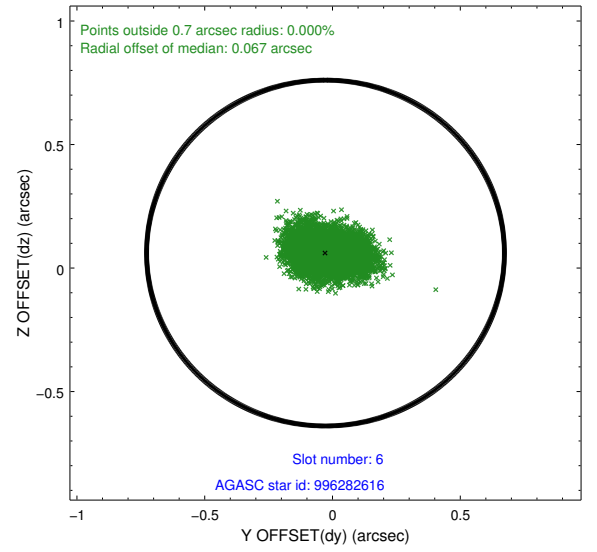
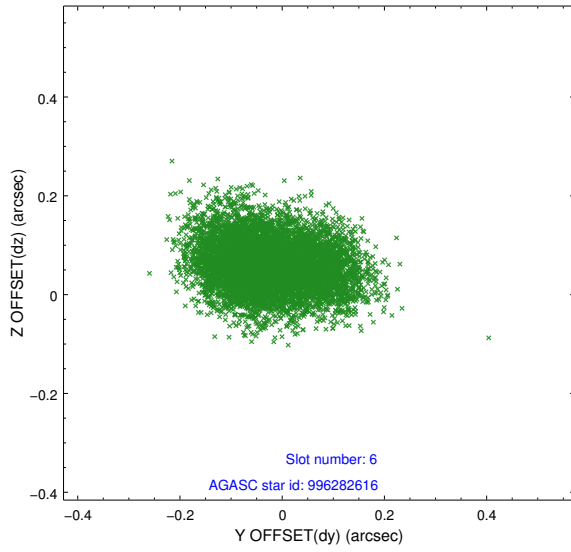
2.4.1 Slot 3



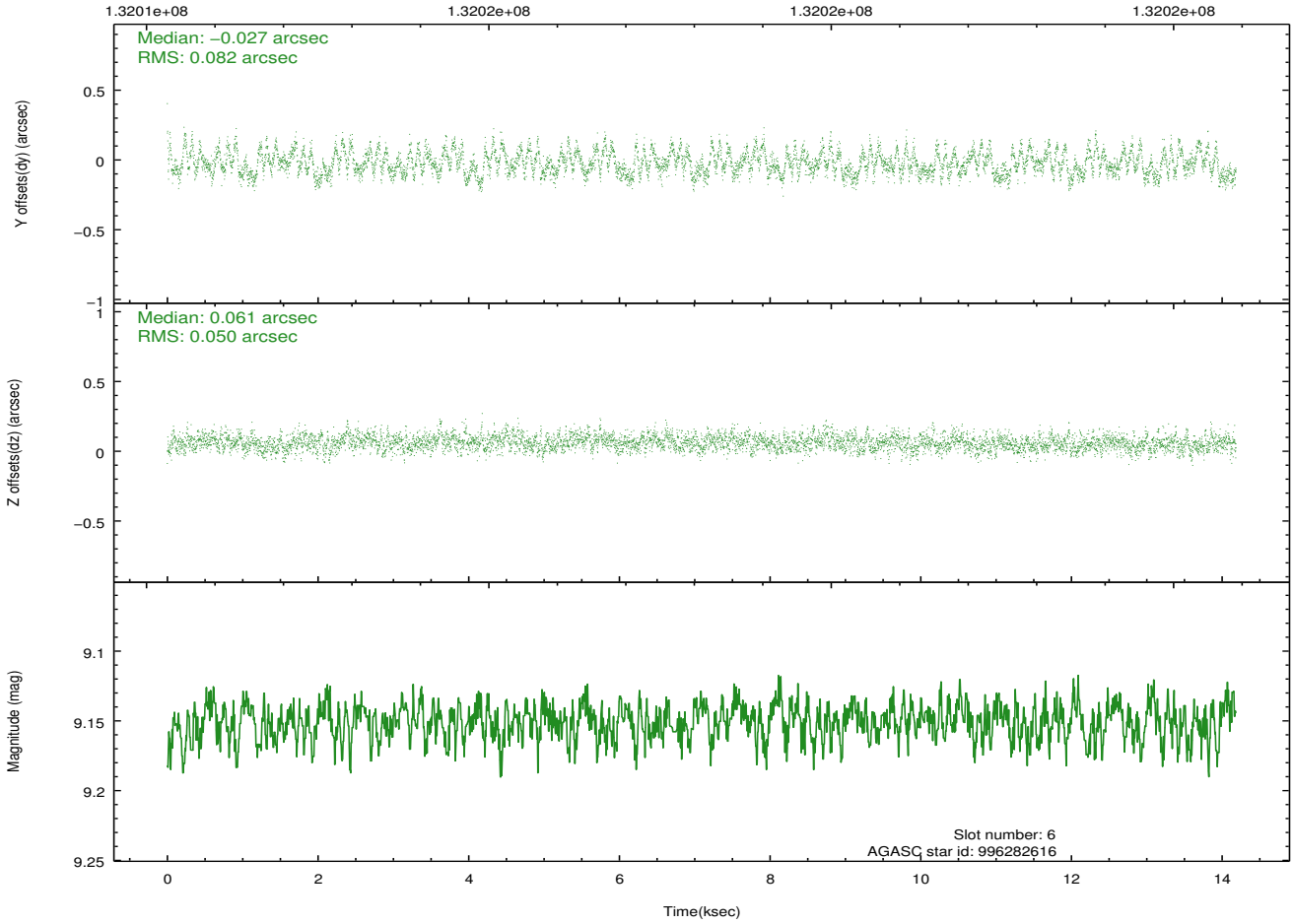
2.4.2 Slot 4



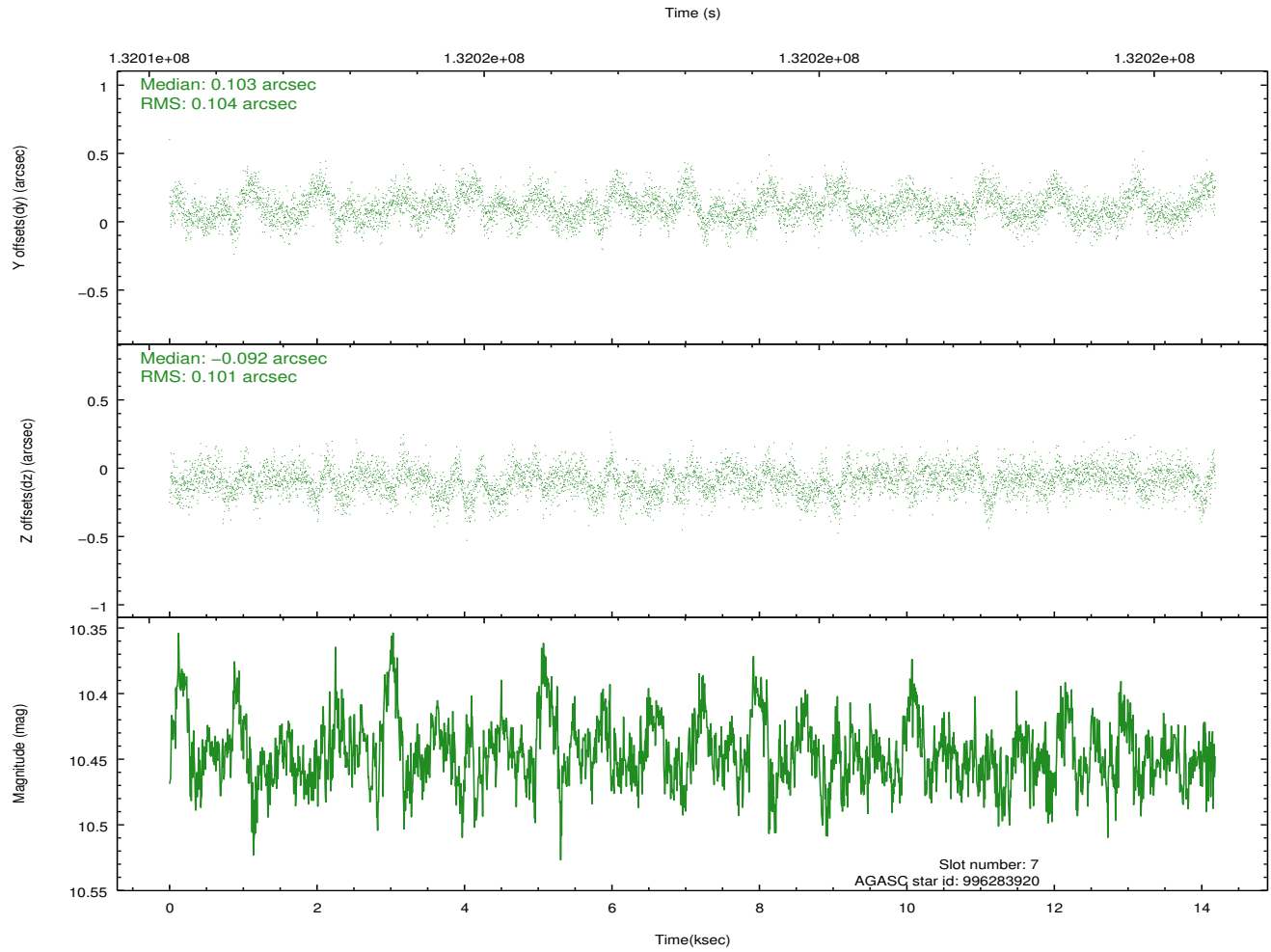
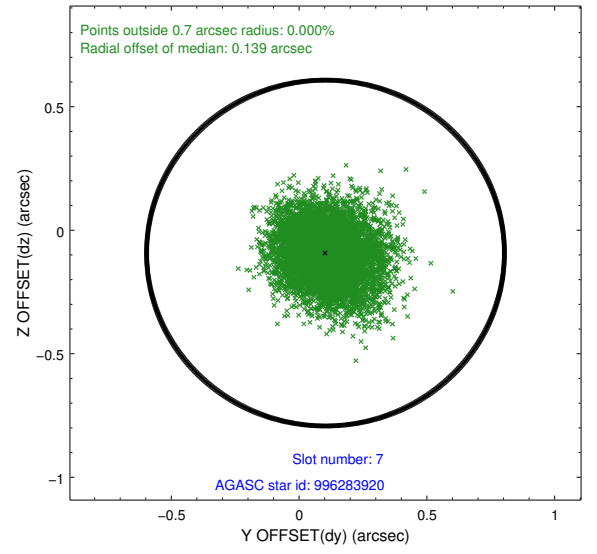
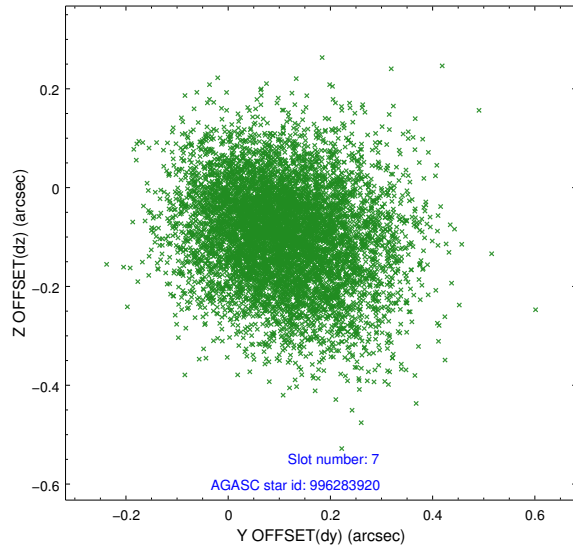
2.4.3 Slot 6



Time (s)

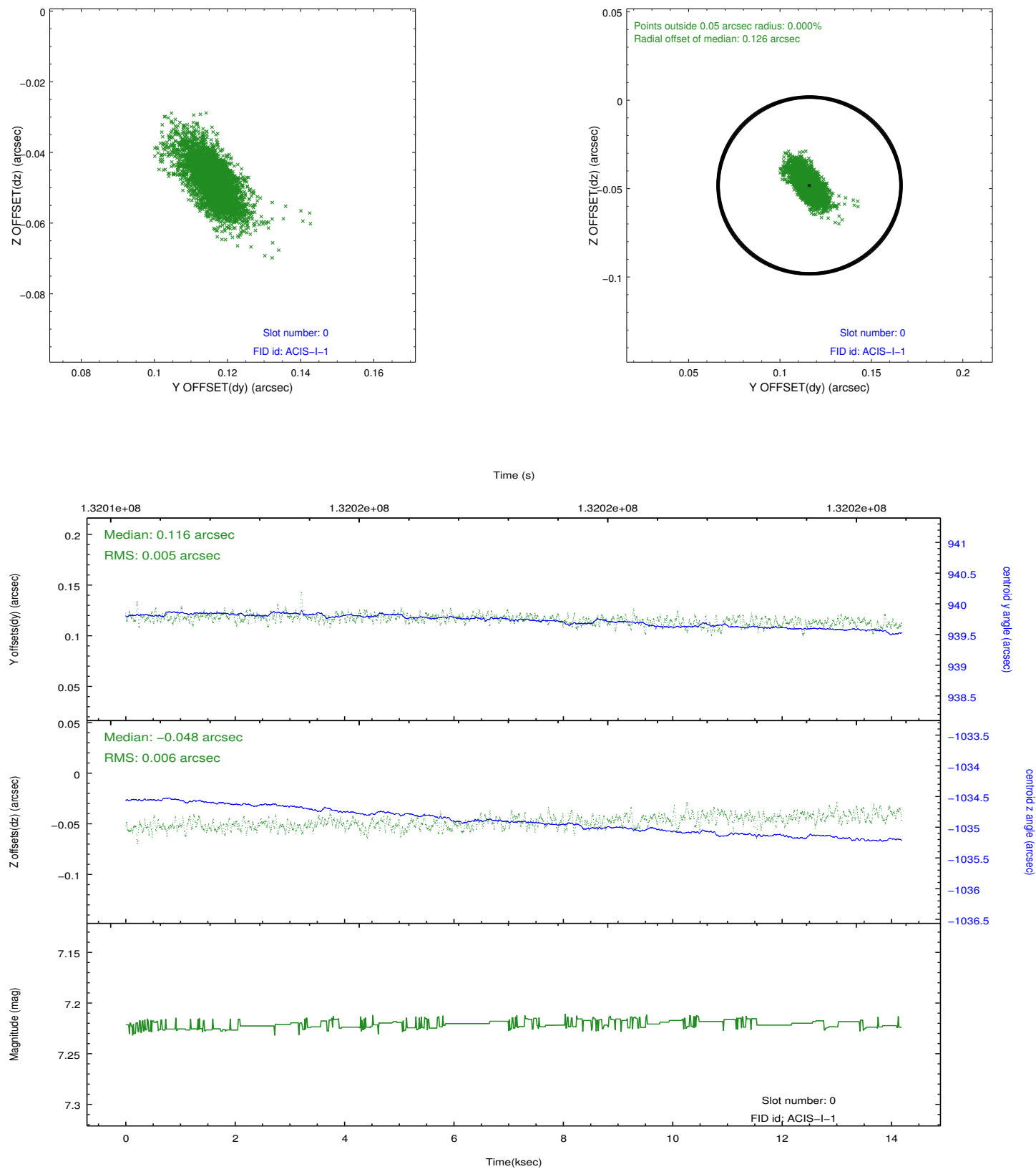


2.4.4 Slot 7

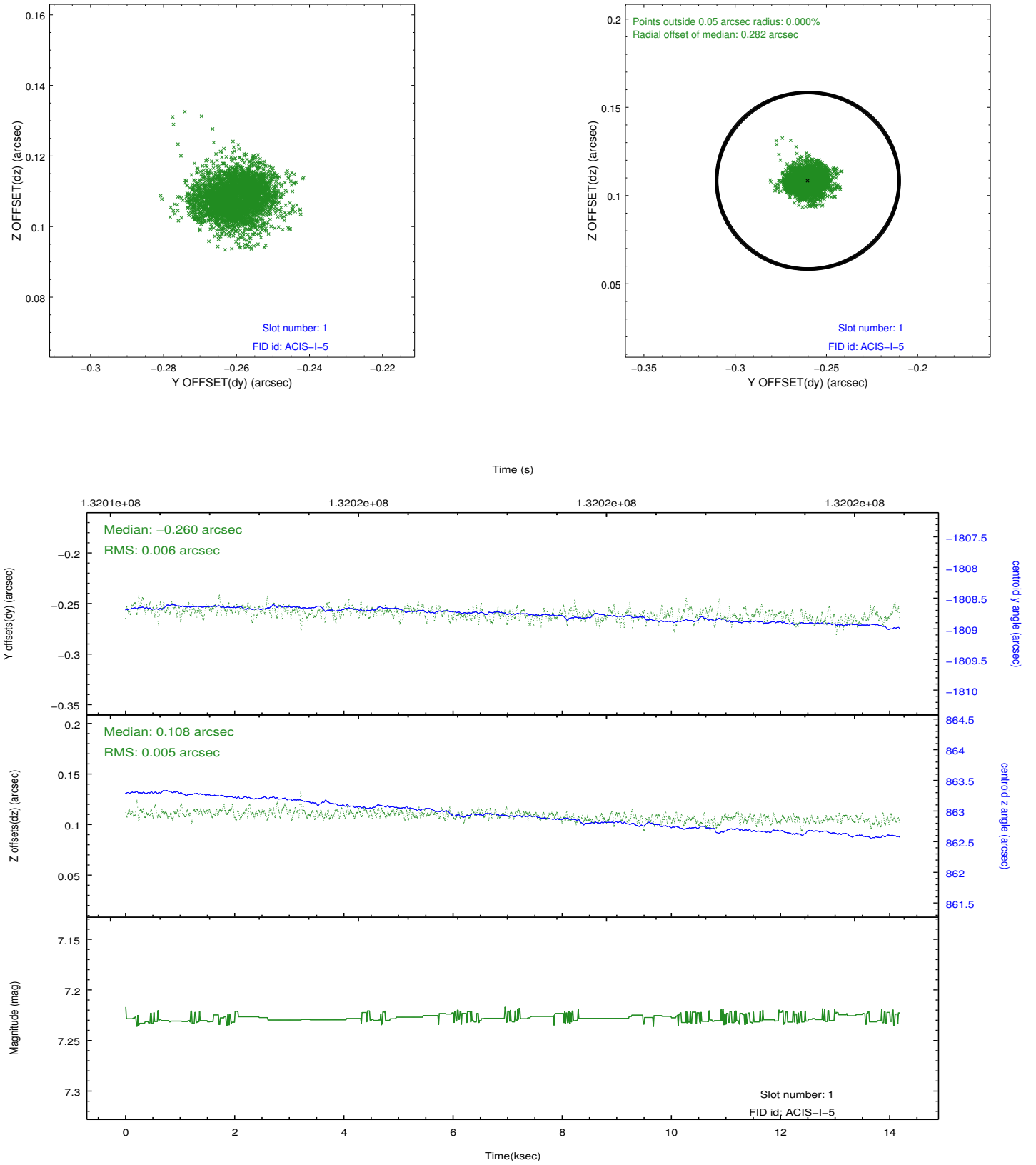


2.5 FID Slots

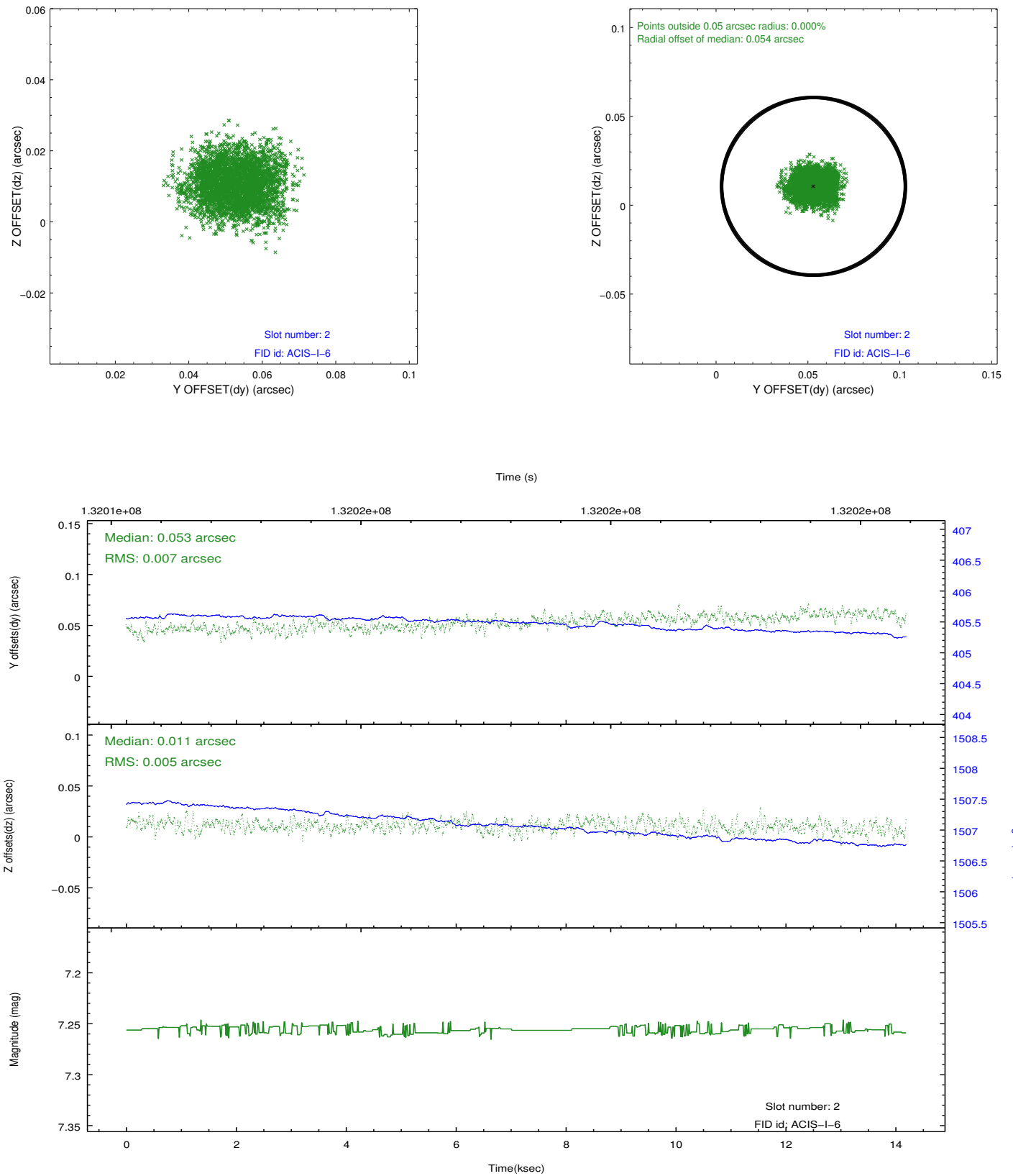
2.5.1 Slot 0



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) | 2012.10.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 14.176 |

A.2 Comments

Slot 5 was not utilized in this observation.