

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13579 - L2 Version 2
Chandra X-Ray Center

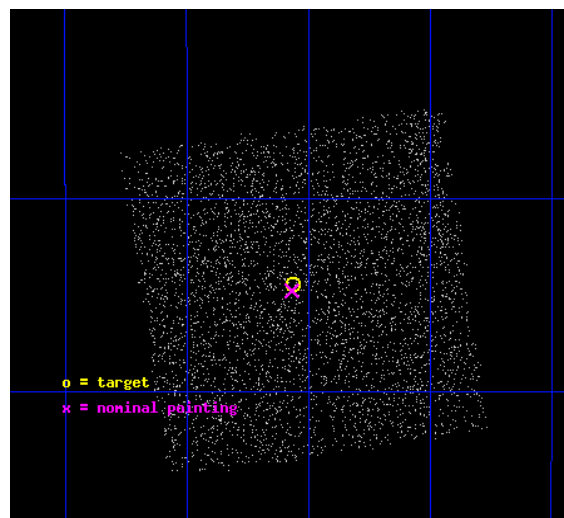
L2 Processing Date : Feb 25 2012

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| A | Summary | 17 |
| A.1 | Status | 17 |
| A.2 | Comments | 17 |

1 Front

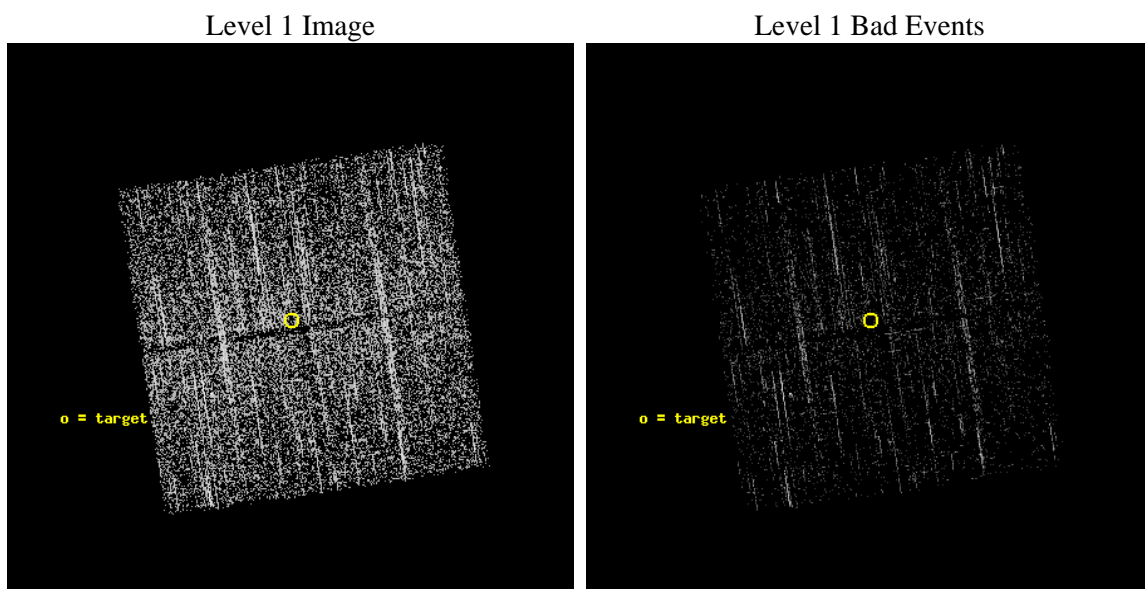
| | | |
|----------|--|--|
| seq_num | 401355 | Sequence number |
| obs_id | 13579 | Observation id |
| title | Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge | Proposal title |
| observer | dr P Jonker | Principal investigator |
| object | GBS13-5 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 266.890419 | Observer's specified target RA [deg] |
| dec_targ | -31.907571 | Observer's specified target Dec [deg] |
| ra_nom | 266.8921234497 | Nominal RA [deg] |
| dec_nom | -31.913019908837 | Nominal Dec [deg] |
| roll_nom | 261.54450553763 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 1971.6000151634 | Sum of GTIs [s] |
| livetime | 1945.8396094945 | Livetime [s] |
| ontime0 | 1971.6000151634 | Sum of GTIs [s] |
| ontime1 | 1971.6000151634 | Sum of GTIs [s] |
| ontime2 | 1971.6000151634 | Sum of GTIs [s] |
| ontime3 | 1971.6000151634 | Sum of GTIs [s] |
| l2events | 4888 | Number of level 2 events |



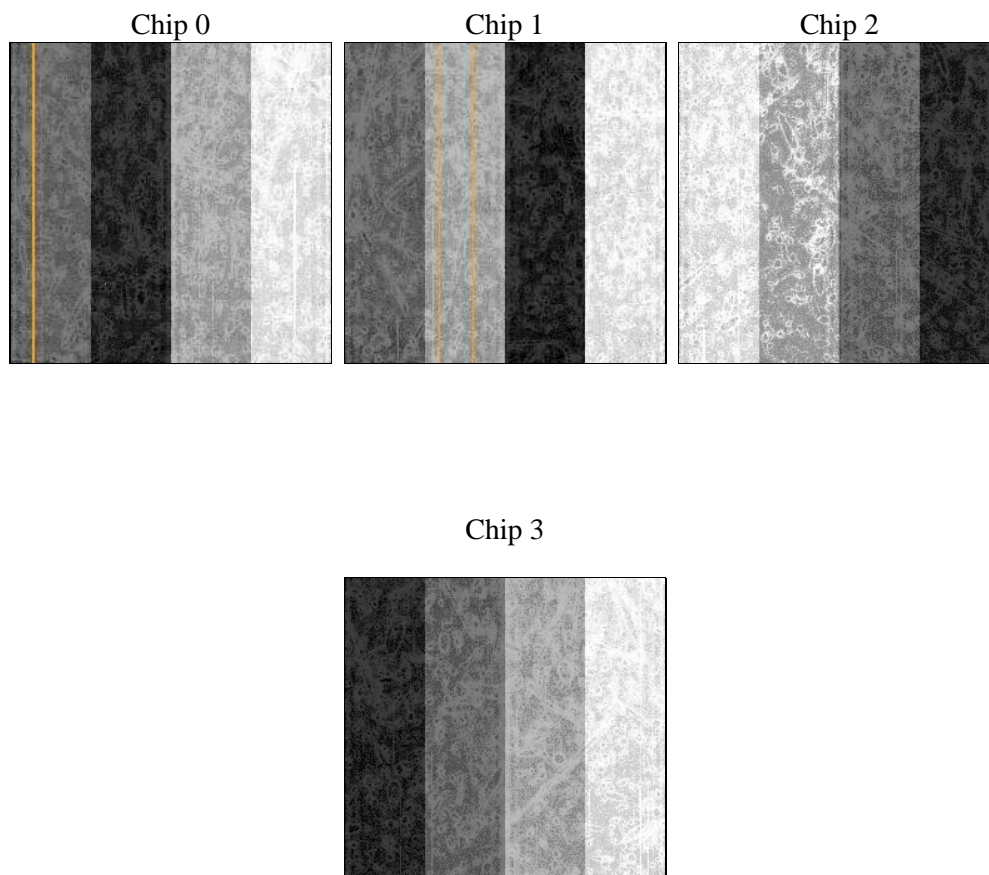
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2180.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 1971.6000151634 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime0 | 1971.6000151634 | Sum of GTIs [s] |
| date | 2012-02-26T01:18:51 | Date and time of file creation | ontime1 | 1971.6000151634 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 1971.6000151634 | Sum of GTIs [s] |
| | | | ontime3 | 1971.6000151634 | Sum of GTIs [s] |
| | | | l1events | 45532 | Number of level 1 events |

2.1.4 Events

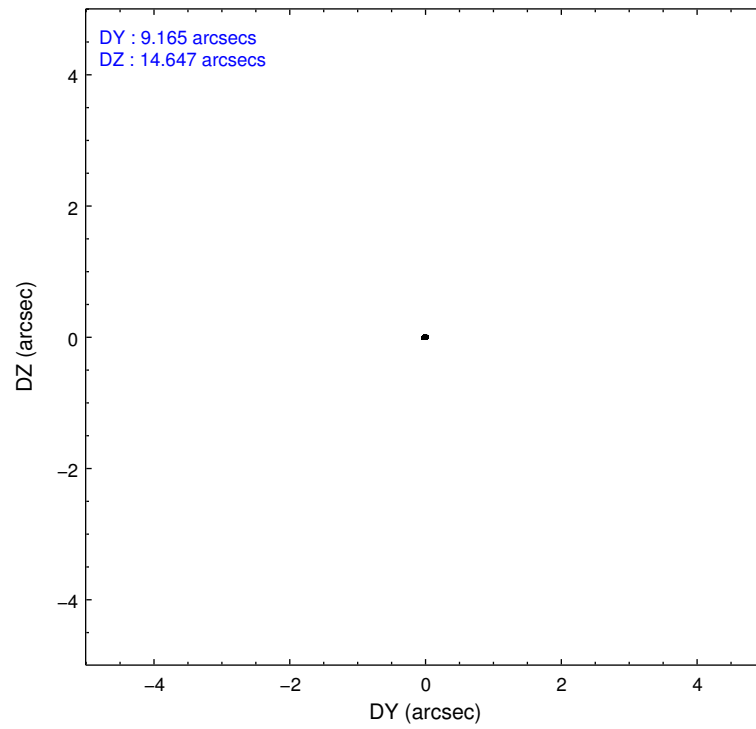
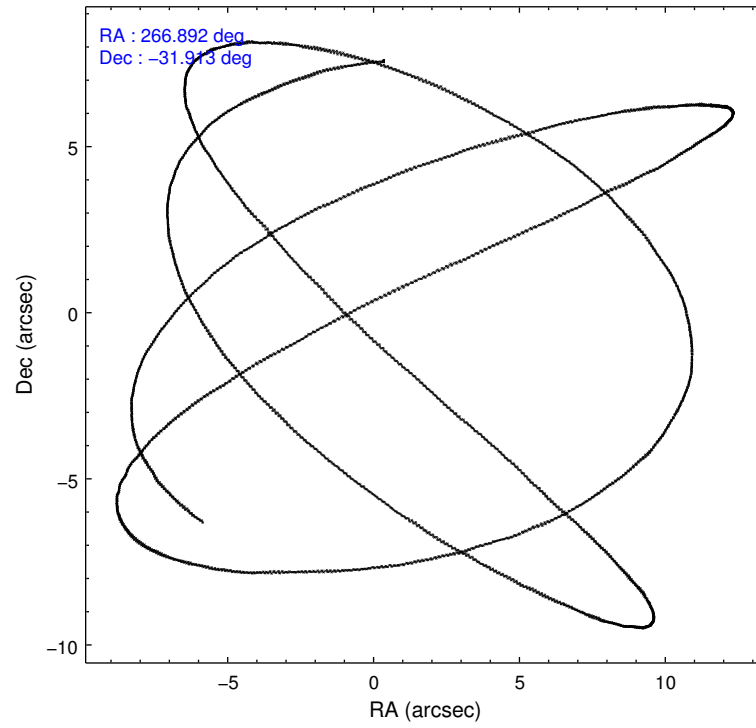
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 10486 | 11114 | 12106 | 11826 |
| rejected events | 9080 | 9603 | 10615 | 10476 |
| rejected % | 86% | 86% | 87% | 88% |

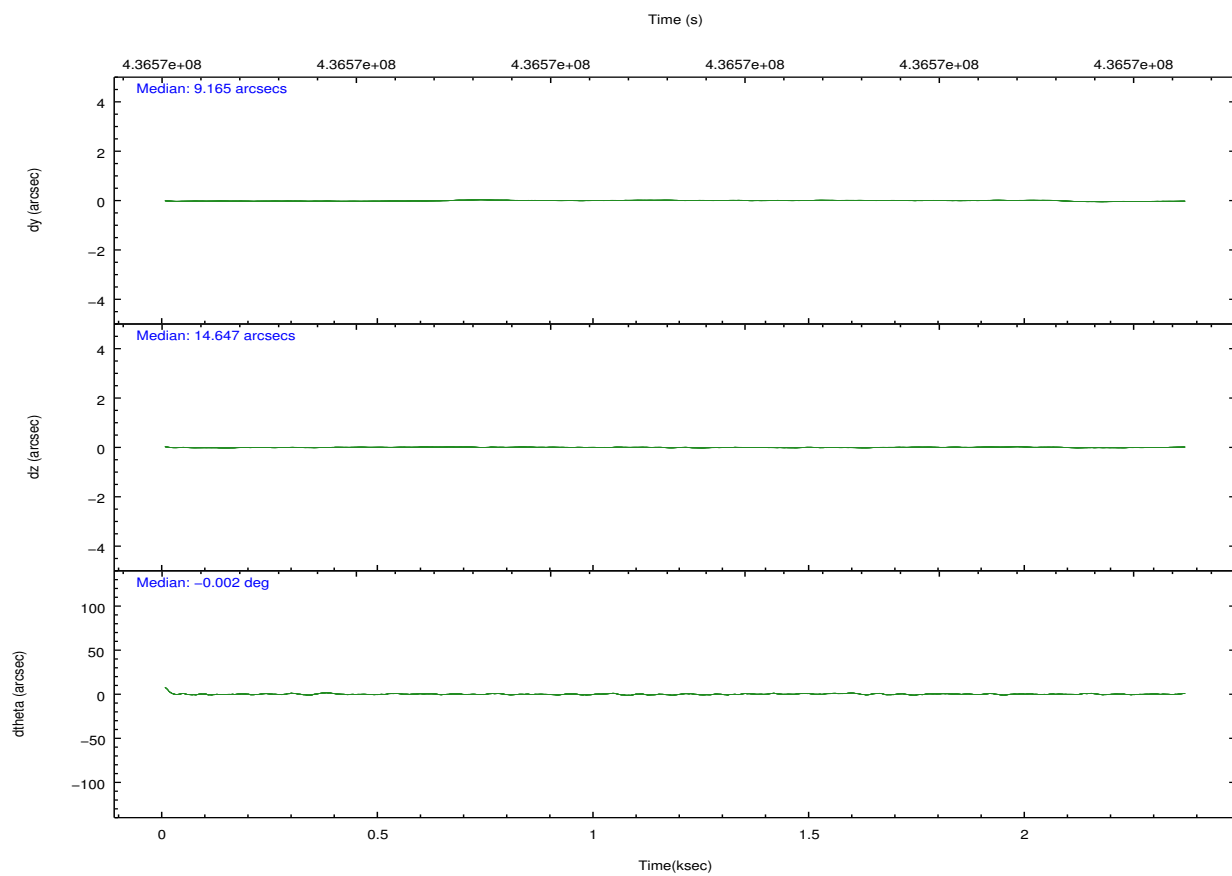
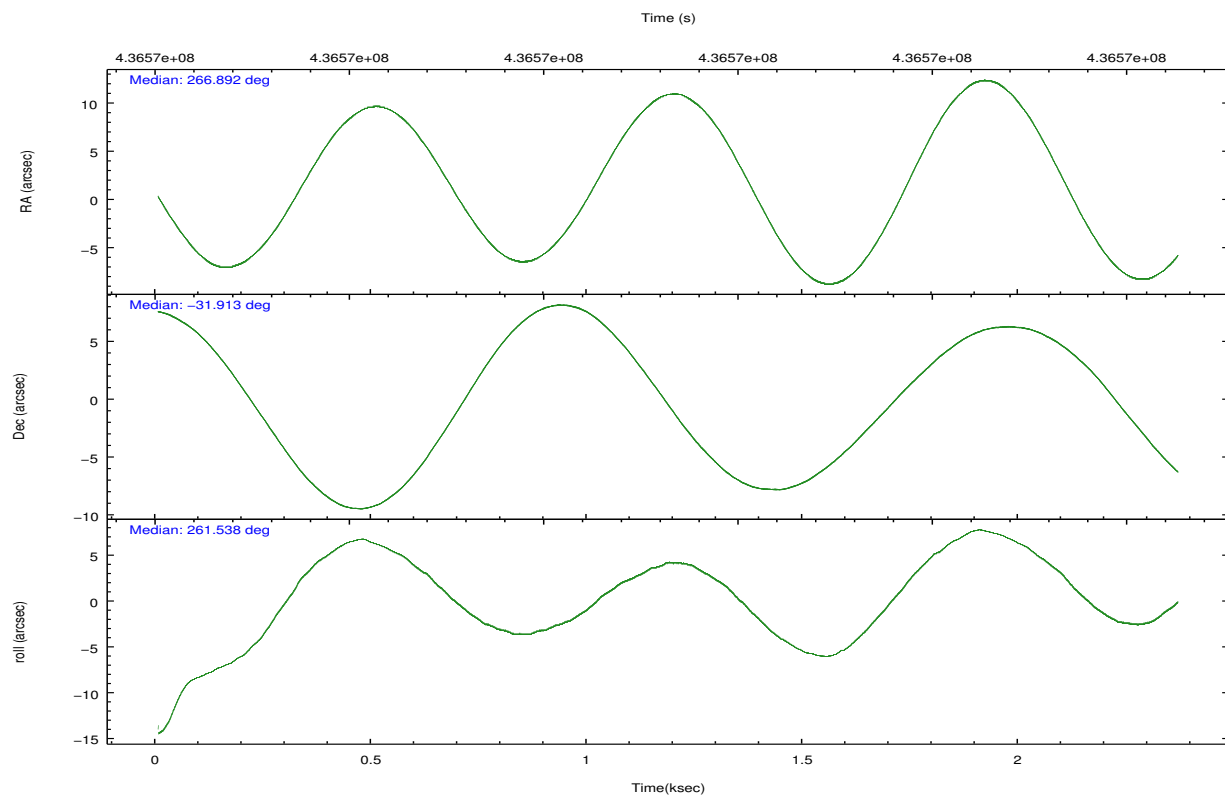
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 525 | 556 | 577 | 536 |
| | 5% | 5% | 4% | 4% |
| grade 1 events | 11 | 6 | 9 | 8 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 350 | 350 | 370 | 291 |
| | 3% | 3% | 3% | 2% |
| grade 3 events | 135 | 161 | 133 | 135 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 119 | 154 | 147 | 131 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 512 | 561 | 524 | 603 |
| | 4% | 5% | 4% | 5% |
| grade 6 events | 280 | 292 | 273 | 261 |
| | 2% | 2% | 2% | 2% |
| grade 7 events | 8554 | 9034 | 10073 | 9861 |
| | 81% | 81% | 83% | 83% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-0123 | ACIS-0123 | 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 | 266.880309 | 266.892123449695 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -31.887547 | -31.91301990883741 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 261.329620 | 261.5445055376281 | [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) | 436567329.184000 | 436566952.78432 | | | |
| Observation start date | 2011-11-01T20:41:03 | 2011-11-01T20:35:52 | | | |
| [s] Observation end time (MET) | 436569509.184000 | 436569643.40947 | | | |
| Observation end date | 2011-11-01T21:17:23 | 2011-11-01T21:20:43 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



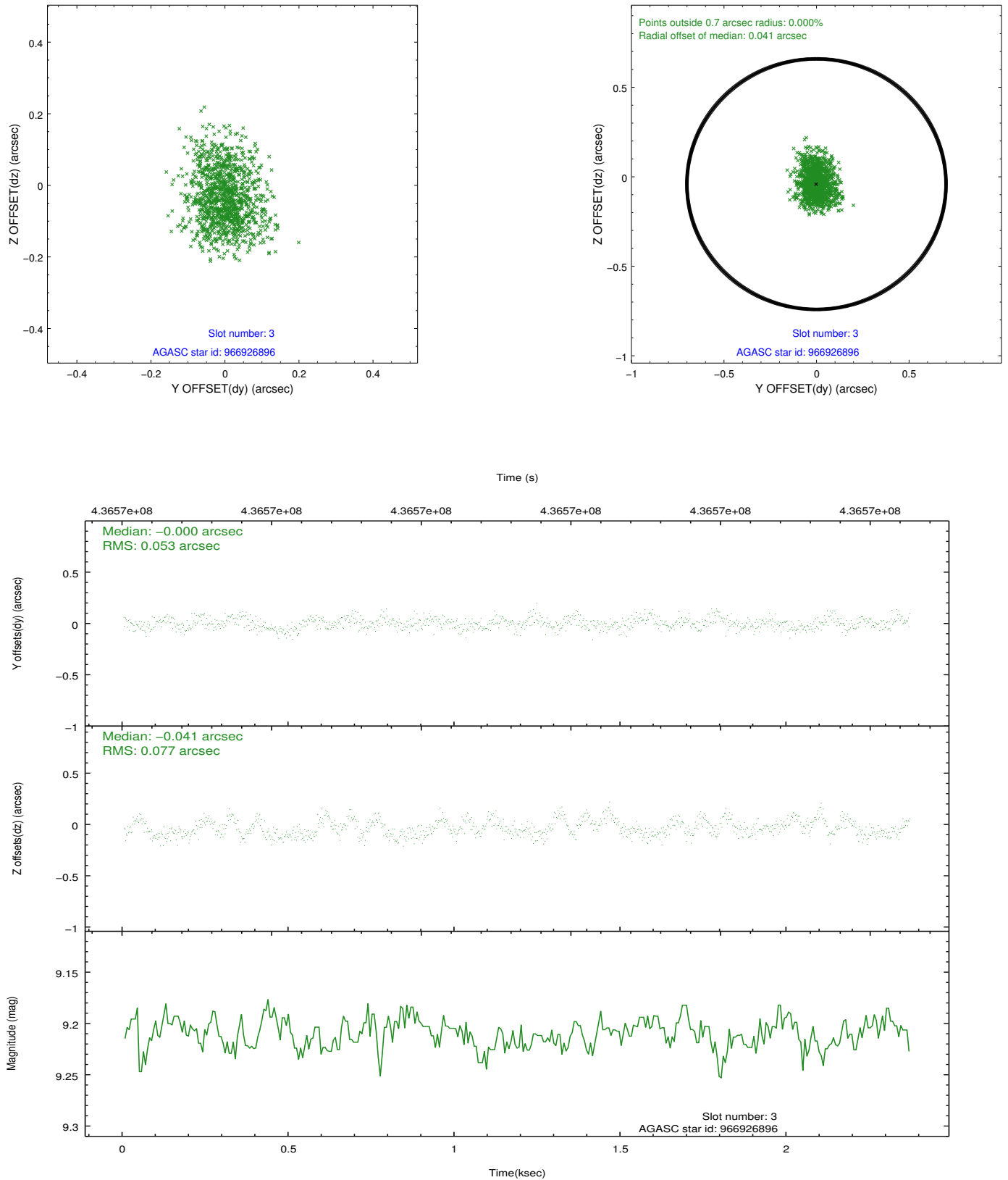


Slot Statistics

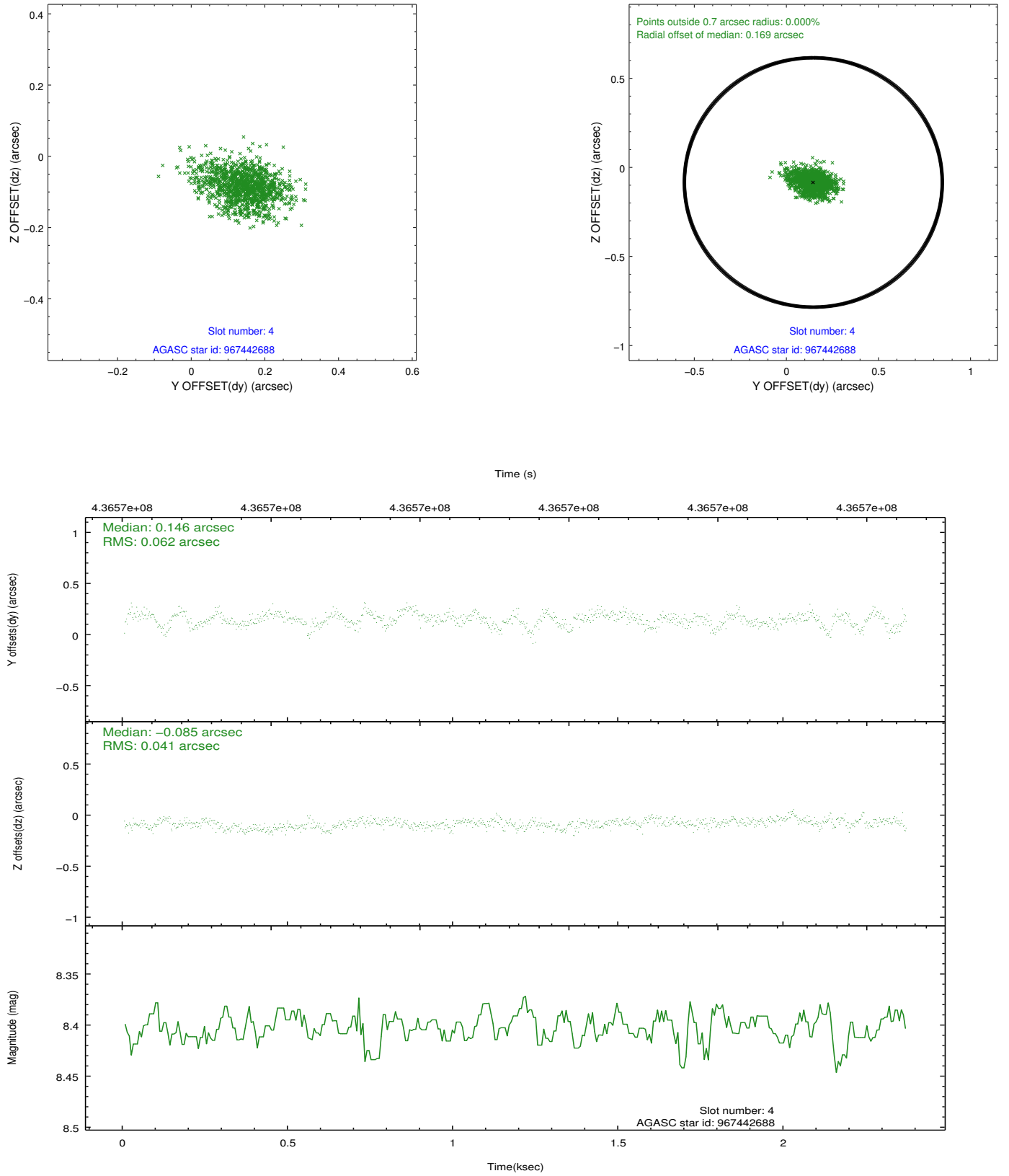
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-2 | 6.94 | 577 | -0.090 | -0.090 | 0.008 | 0.014 | 0.000000 | 0.000000 | -763.80 | -844.70 |
| 1 | FID | ACIS-I-4 | 6.94 | 577 | 0.183 | 0.079 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2149.28 | 1060.26 |
| 2 | FID | ACIS-I-5 | 7.01 | 577 | -0.195 | 0.081 | 0.007 | 0.014 | 0.000000 | 0.000000 | -1814.21 | 1061.23 |
| 3 | GUIDE | 966926896 | 9.21 | 1155 | -0.000 | -0.041 | 0.100 | 0.159 | 266.197771 | -31.663459 | -474.80 | -2187.43 |
| 4 | GUIDE | 967442688 | 8.40 | 1155 | 0.146 | -0.085 | 0.077 | 0.133 | 266.096113 | -32.373763 | 2099.12 | -2092.94 |
| 5 | GUIDE | 967449280 | 8.77 | 1154 | 0.314 | 0.250 | 0.082 | 0.130 | 266.690713 | -32.455990 | 2113.19 | -261.34 |
| 6 | GUIDE | 967450832 | 9.12 | 1153 | -0.346 | -0.138 | 0.087 | 0.146 | 266.078096 | -31.879979 | 354.20 | -2426.59 |
| 7 | GUIDE | 967451816 | 9.27 | 1152 | -0.112 | 0.013 | 0.101 | 0.175 | 267.266669 | -31.901374 | -125.46 | 1173.97 |

2.4 Star Slots

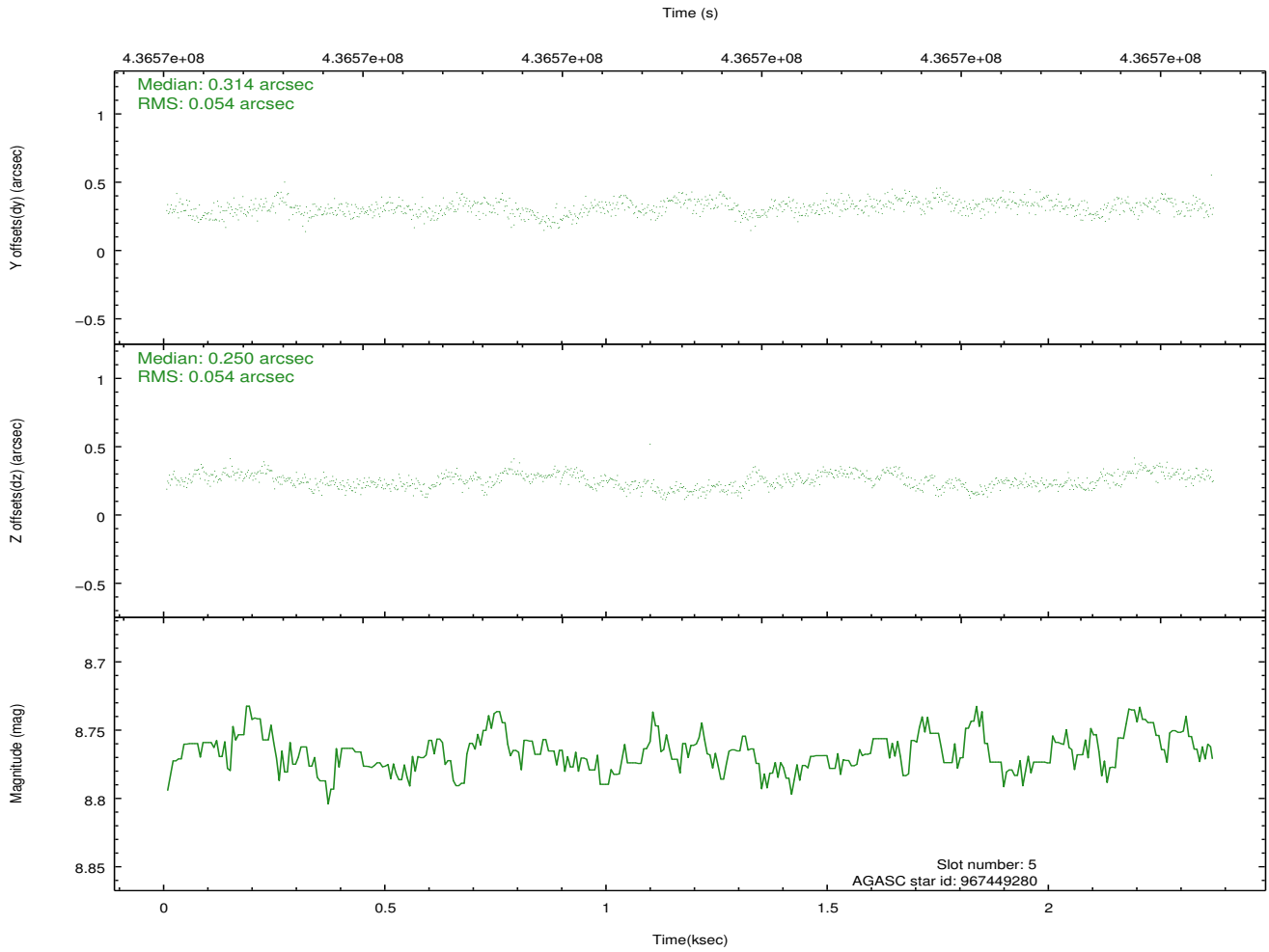
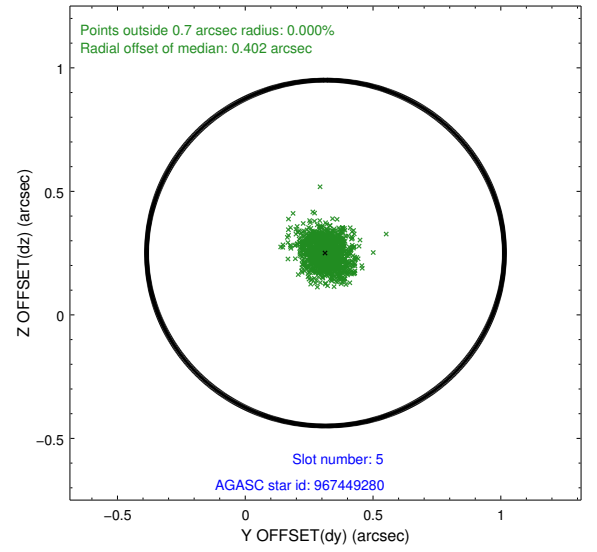
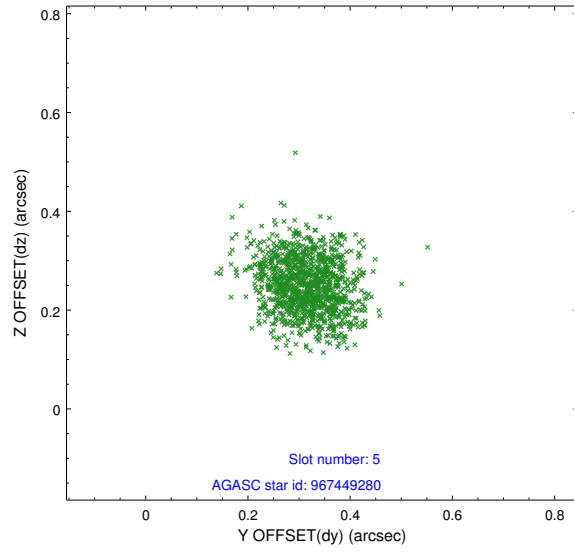
2.4.1 Slot 3



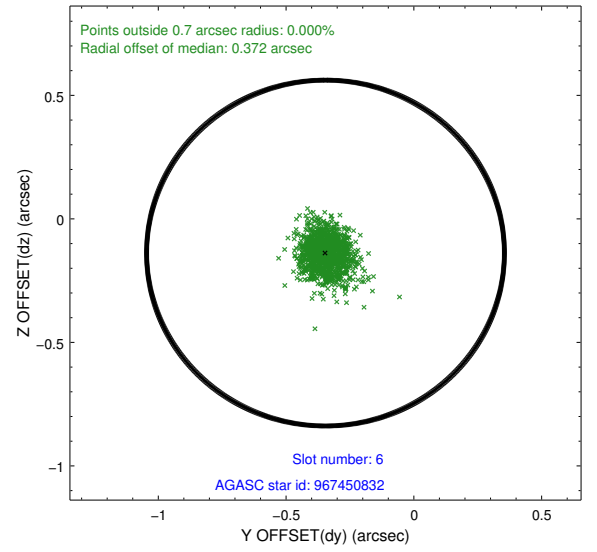
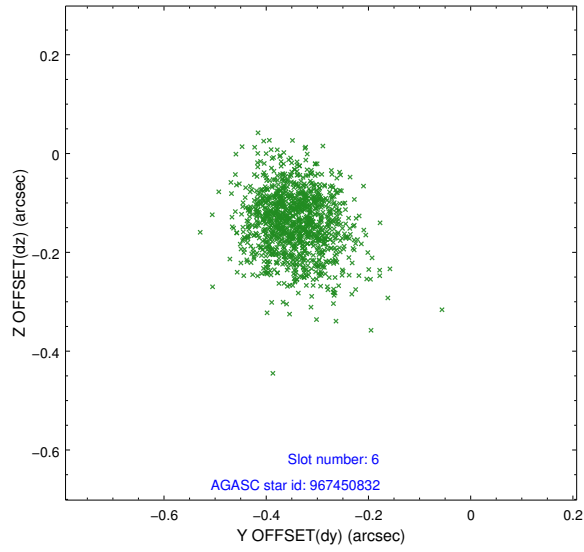
2.4.2 Slot 4



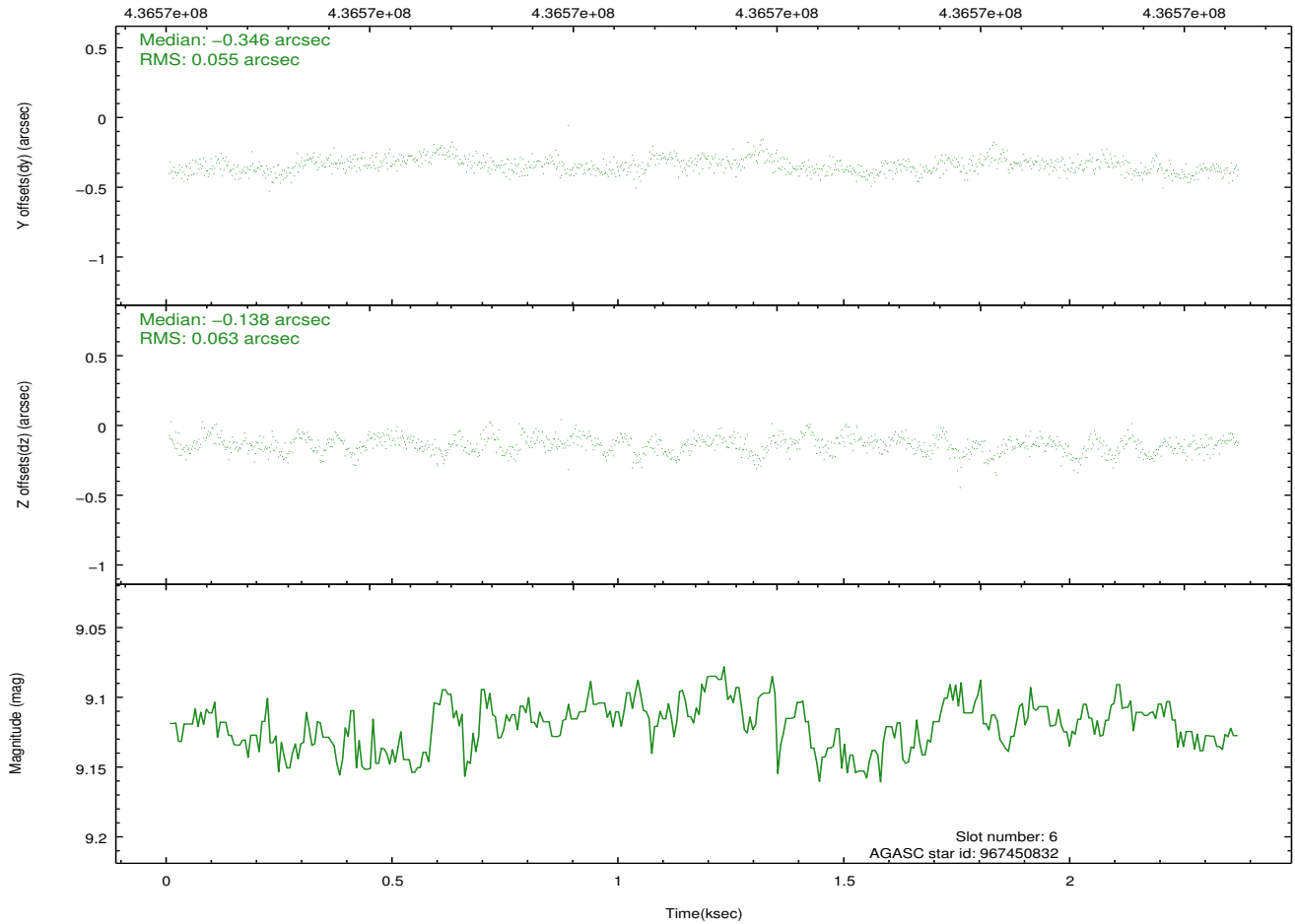
2.4.3 Slot 5



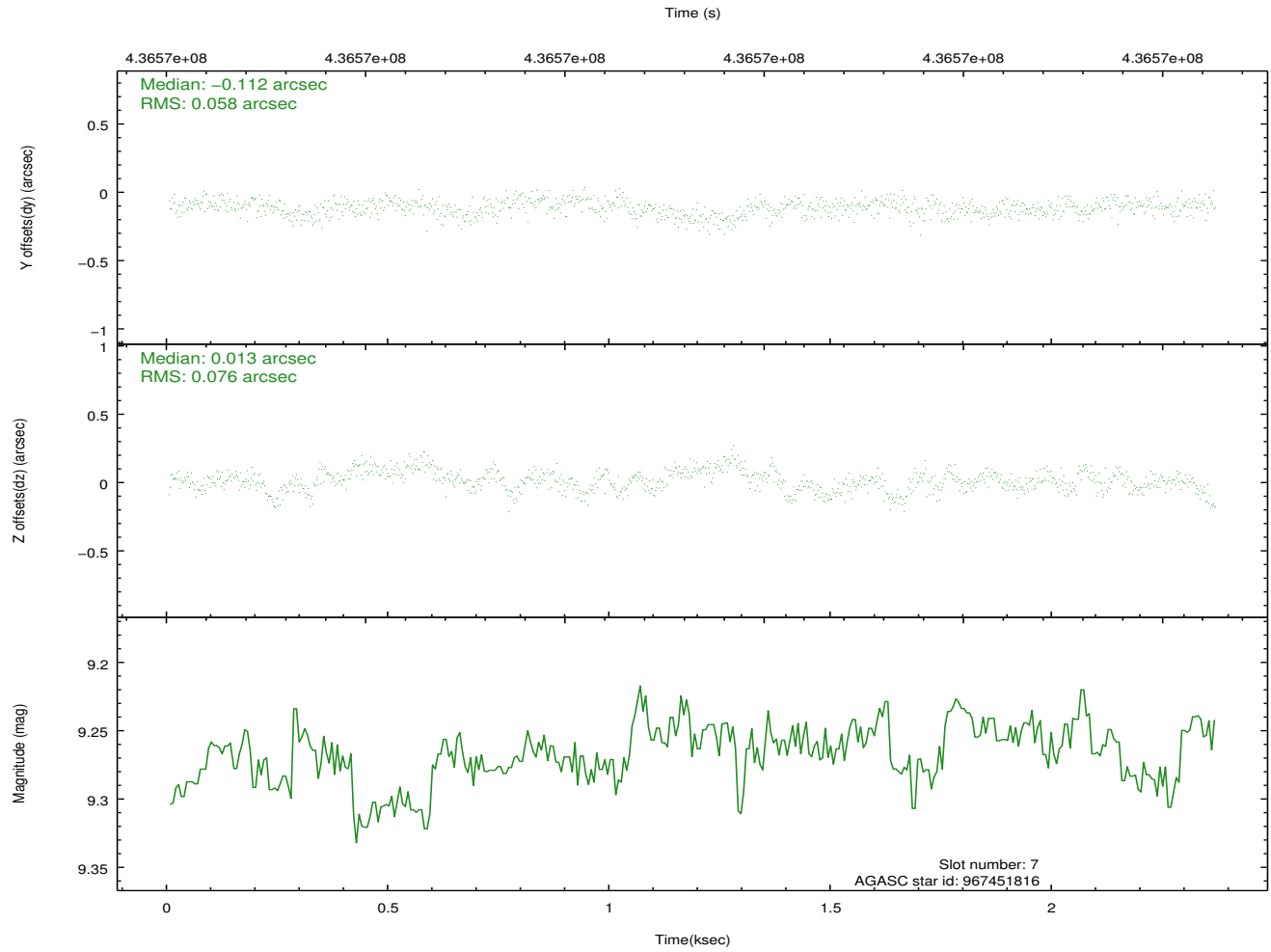
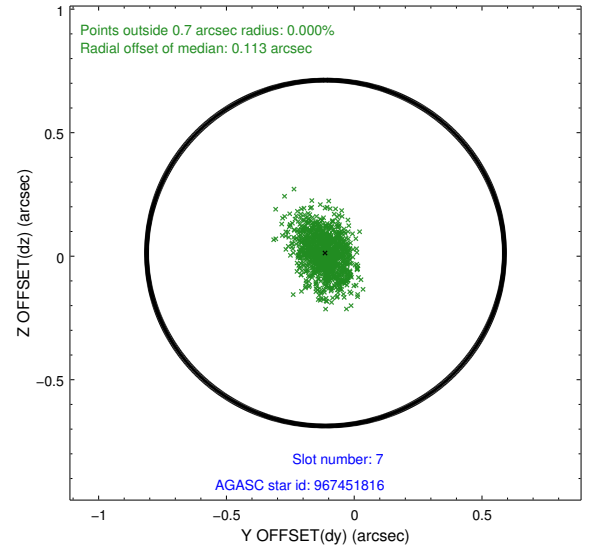
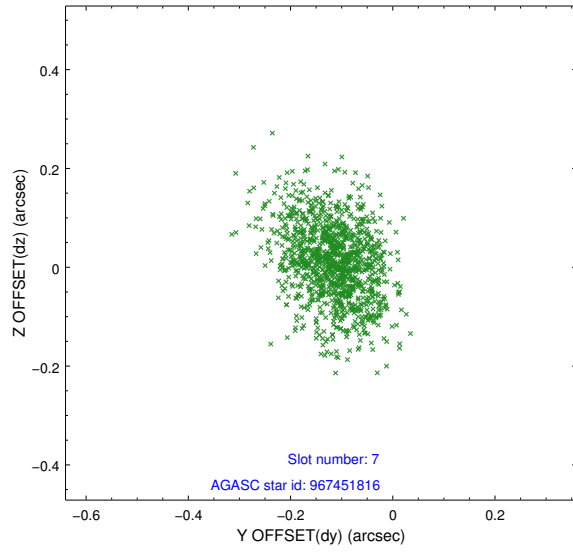
2.4.4 Slot 6



Time (s)

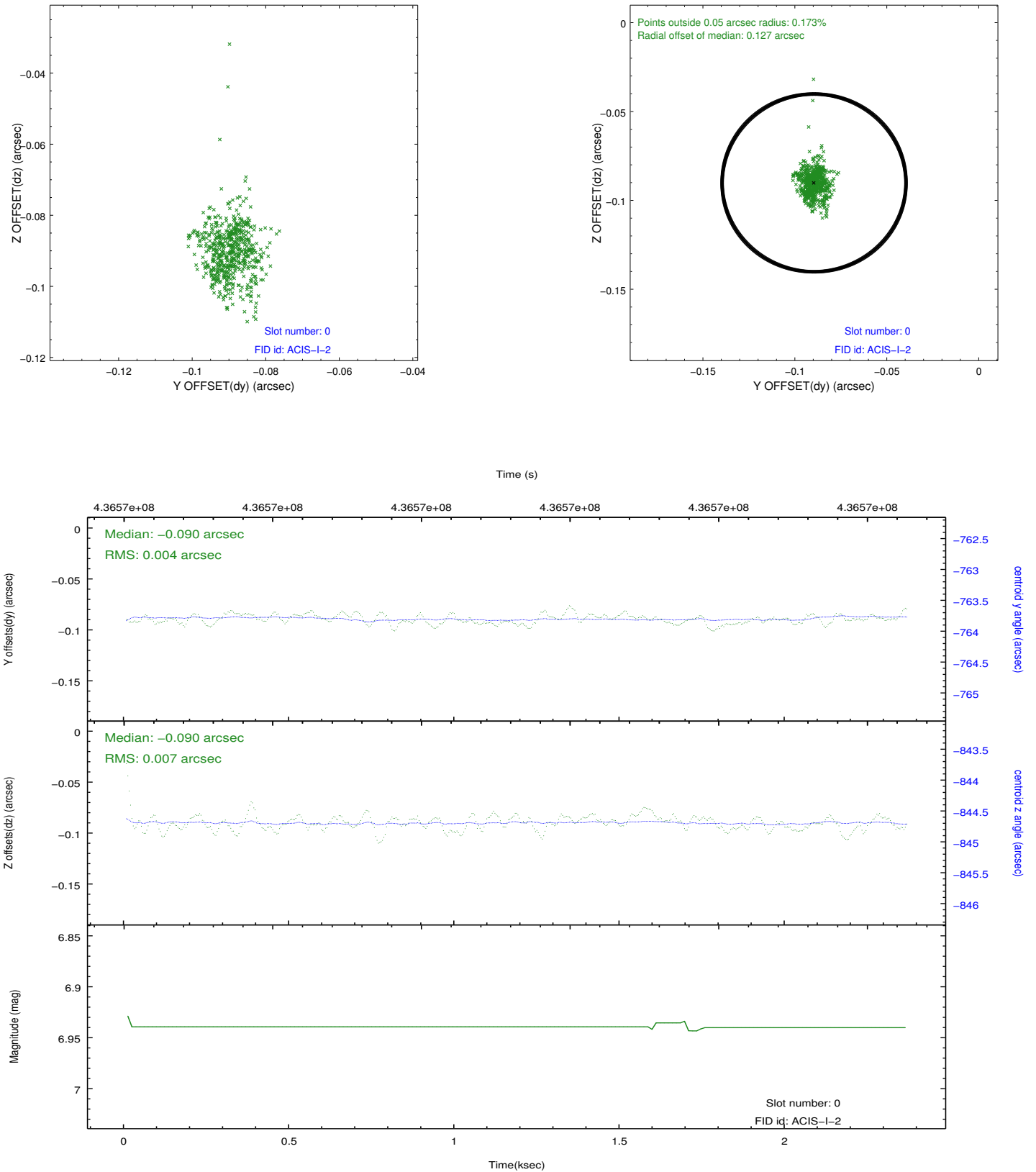


2.4.5 Slot 7

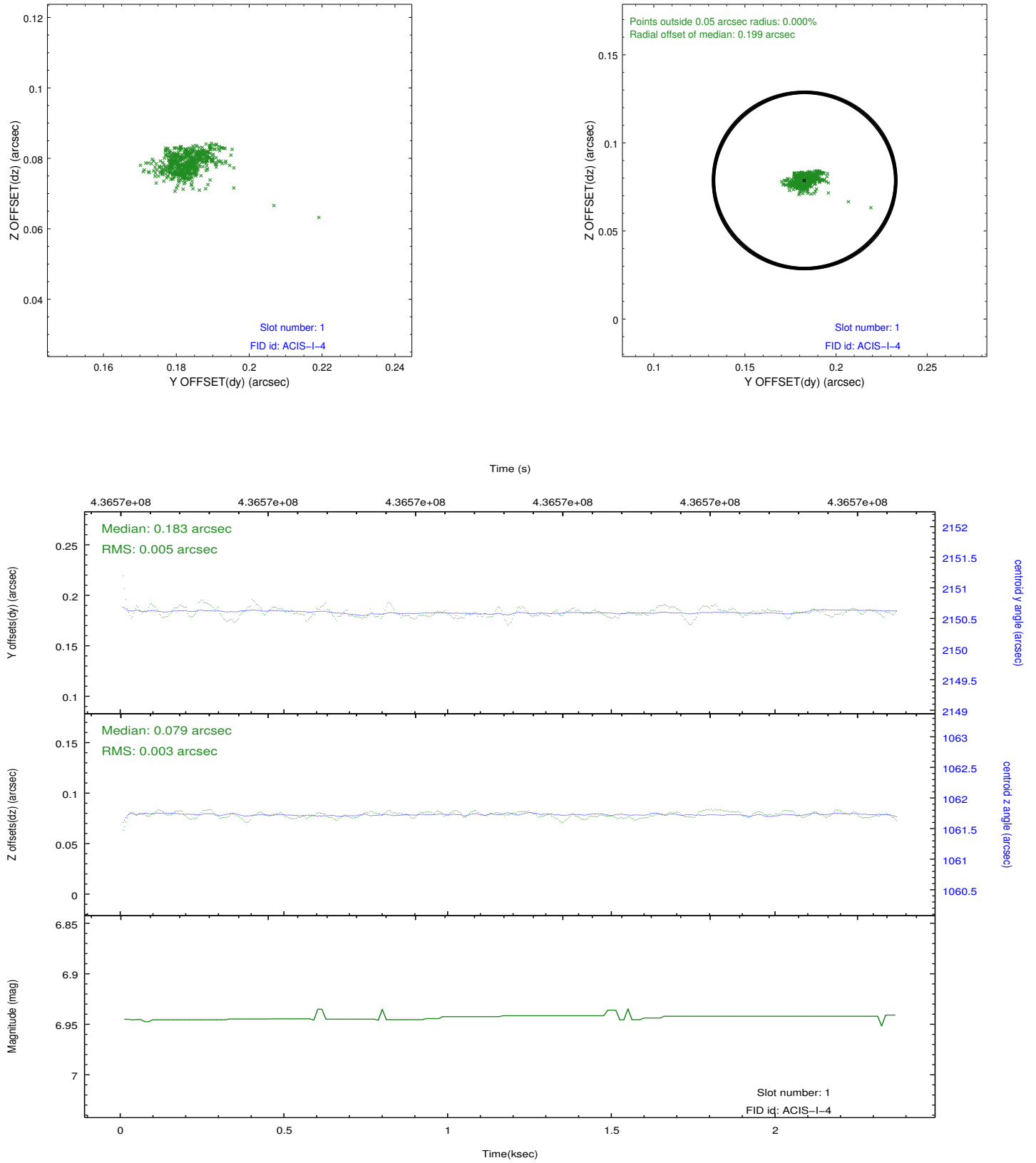


2.5 FID Slots

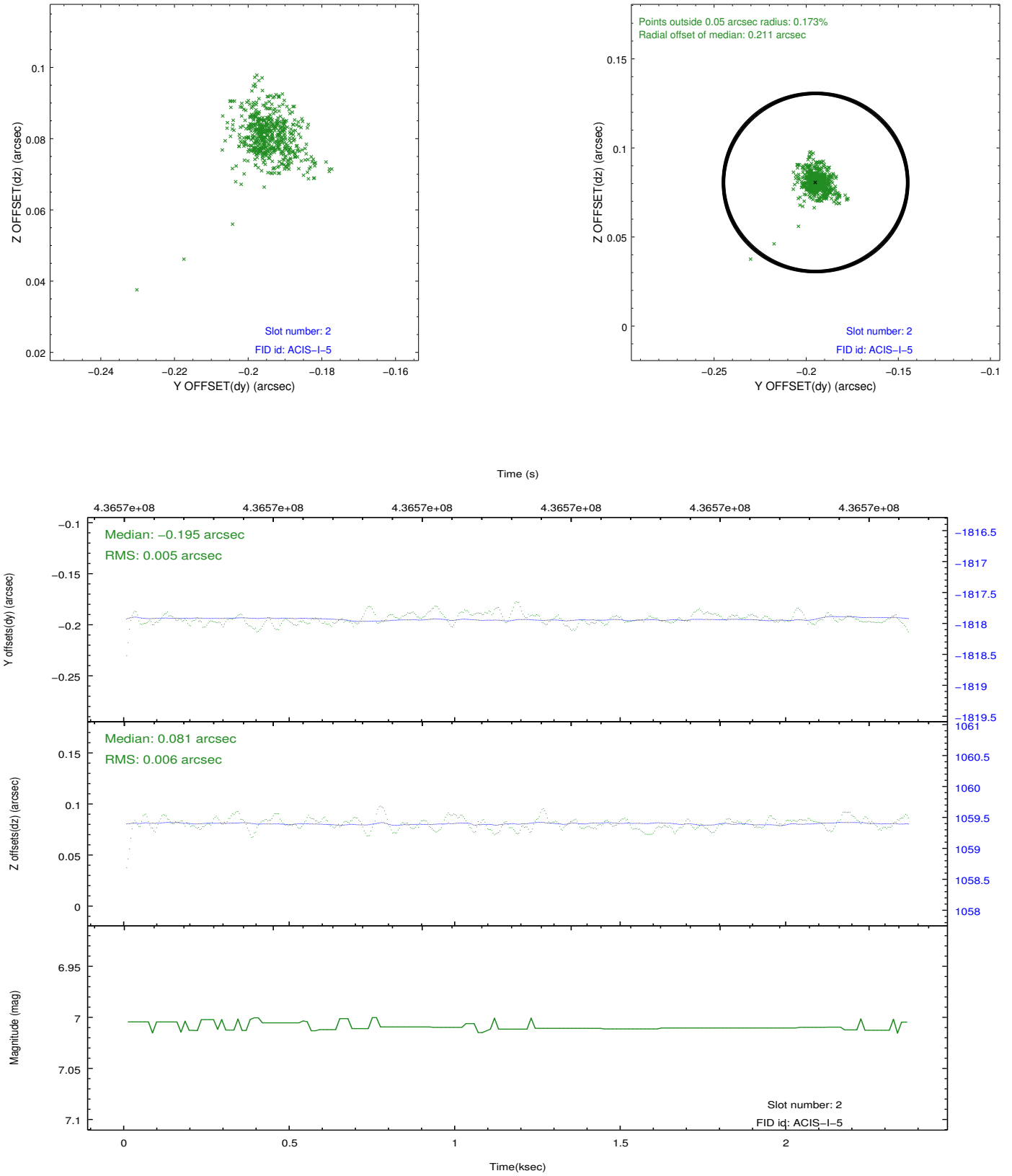
2.5.1 Slot 0



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) | 2012.02.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.9716000151634 |

A.2 Comments

Joint Proposal: NOAO