

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4282 - L2 Version 3
Chandra X-Ray Center

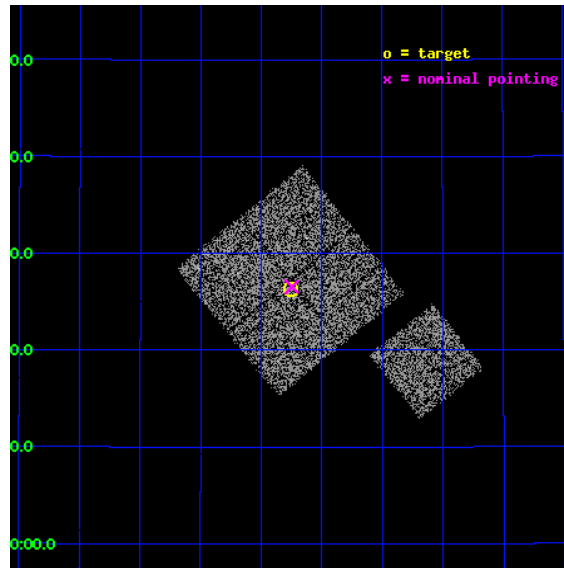
L2 Processing Date : Oct 24 2012

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1 Front

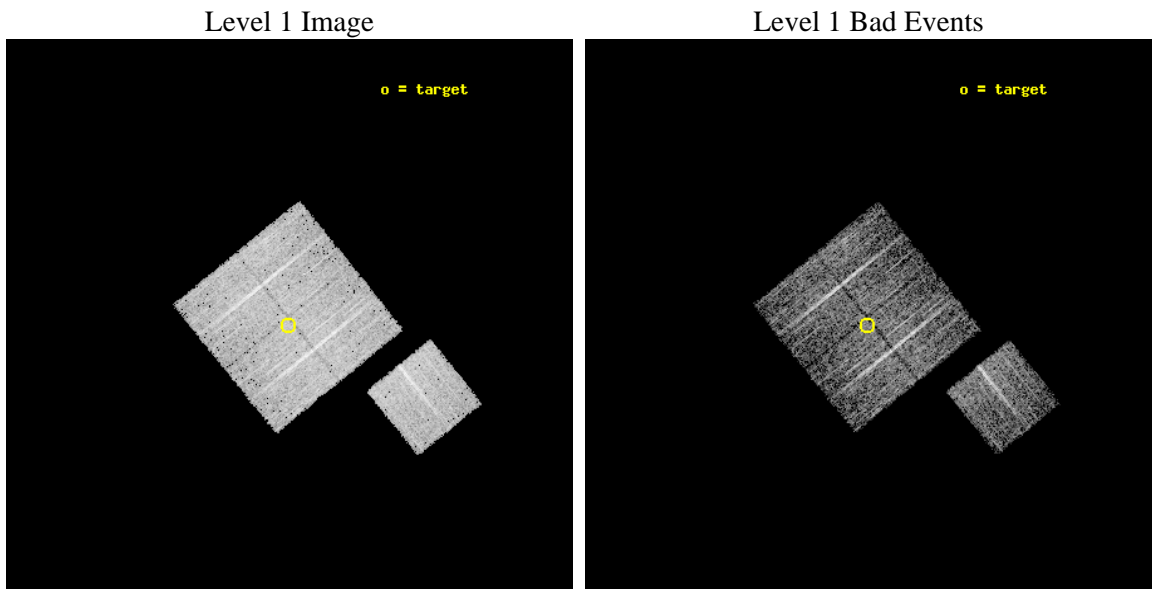
| | | |
|----------|--|---|
| seq_num | 900325 | Sequence number |
| obs_id | 4282 | Observation id |
| title | A CHANDRA WIDE-FIELD SURVEY TO MAP THE COSMIC WEB AND INVESTIGATE THE EVOLUTION OF NUCLEAR ACCRETION | Proposal title |
| observer | Dr. Christine Jones | Principal investigator |
| object | SS60 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 216.314346 | Observer's specified target RA [deg] |
| dec_targ | 32.438448 | Observer's specified target Dec [deg] |
| ra_nom | 216.31167064303 | Nominal RA [deg] |
| dec_nom | 32.442576627128 | Nominal Dec [deg] |
| roll_nom | 141.01013265564 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5114.8457678854 | Sum of GTIs [s] |
| livetime | 5048.0165424333 | Livetime [s] |
| ontime0 | 5114.7226279676 | Sum of GTIs [s] |
| ontime1 | 5114.7636480331 | Sum of GTIs [s] |
| ontime2 | 5114.8047079742 | Sum of GTIs [s] |
| ontime3 | 5114.8457678854 | Sum of GTIs [s] |
| ontime6 | 5117.8225781918 | Sum of GTIs [s] |
| l2events | 16644 | Number of level 2 events |



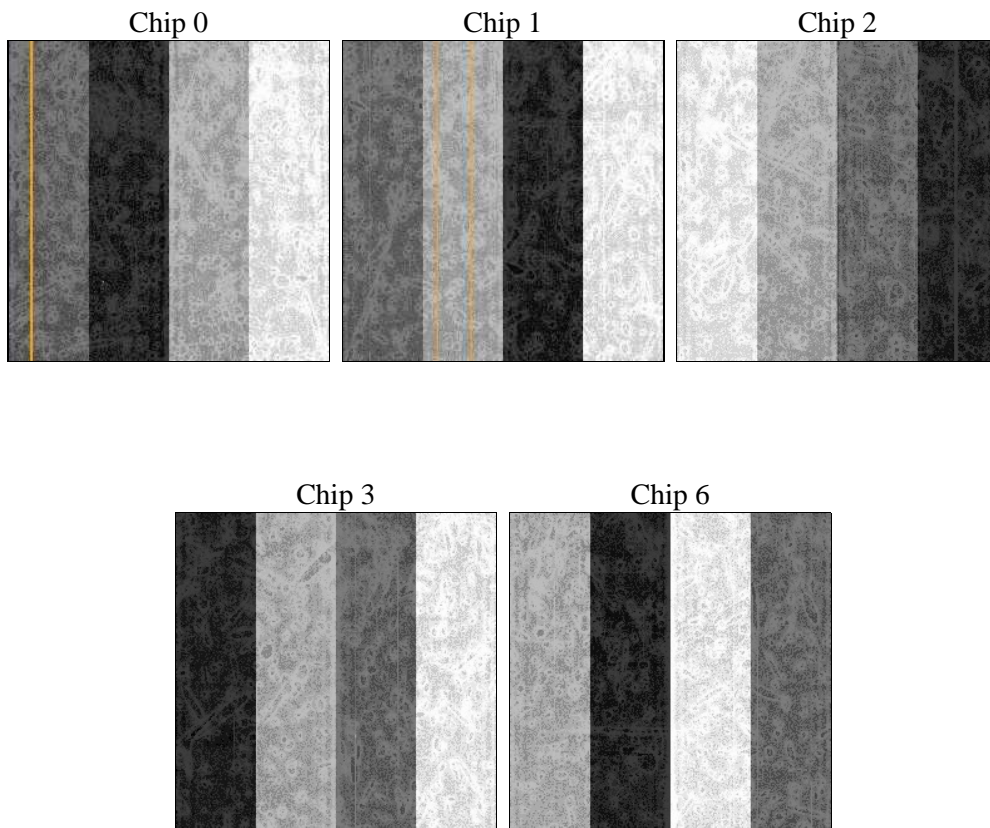
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 5114.8457678854 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 5114.7226279676 | Sum of GTIs [s] |
| date | 2012-10-24T20:51:23 | Date and time of file creation | ontime1 | 5114.7636480331 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 5114.8047079742 | Sum of GTIs [s] |
| | | | ontime3 | 5114.8457678854 | Sum of GTIs [s] |
| | | | ontime6 | 5117.8225781918 | Sum of GTIs [s] |
| | | | l1events | 161416 | Number of level 1 events |

2.1.4 Events

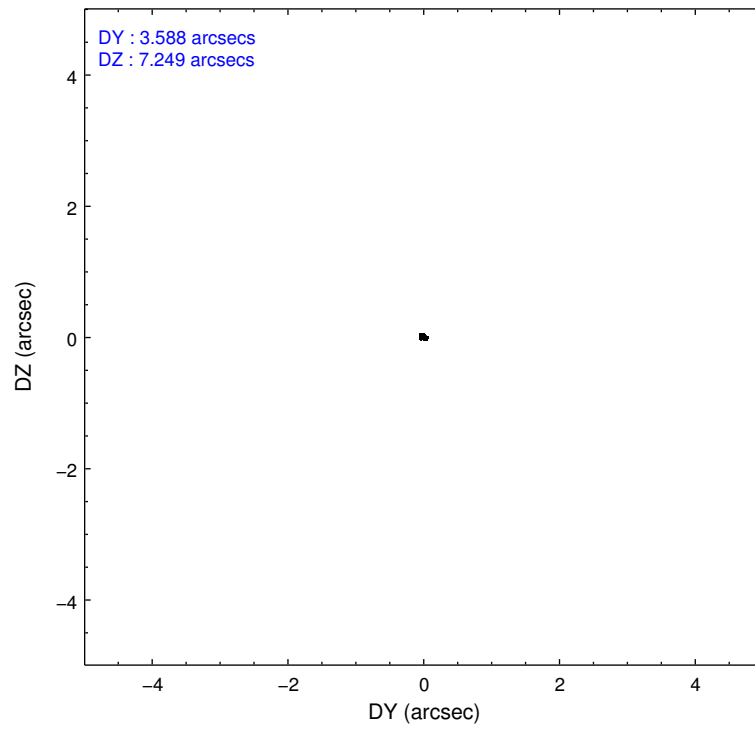
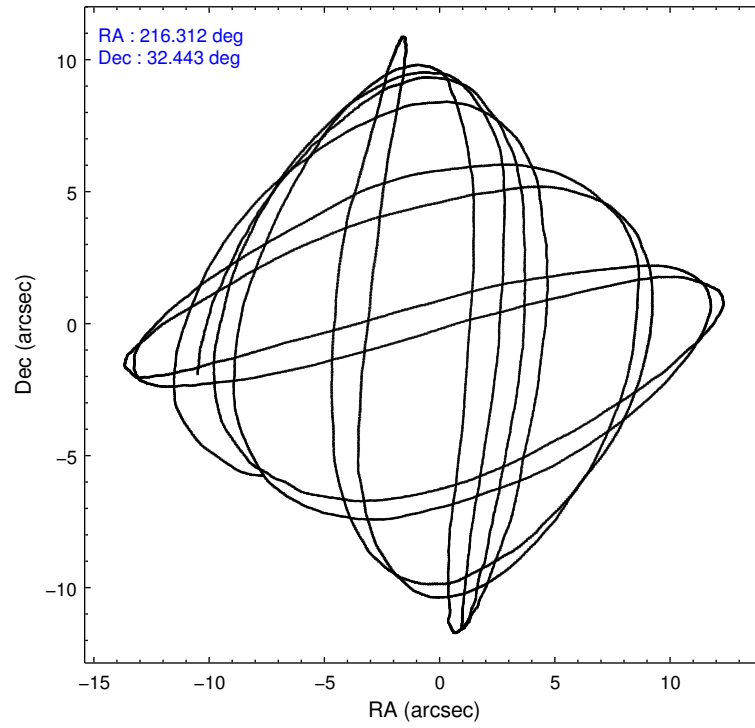
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 31389 | 31354 | 33304 | 32388 | 32981 |
| rejected events | 27381 | 27190 | 29479 | 28659 | 29282 |
| rejected % | 87% | 86% | 88% | 88% | 88% |

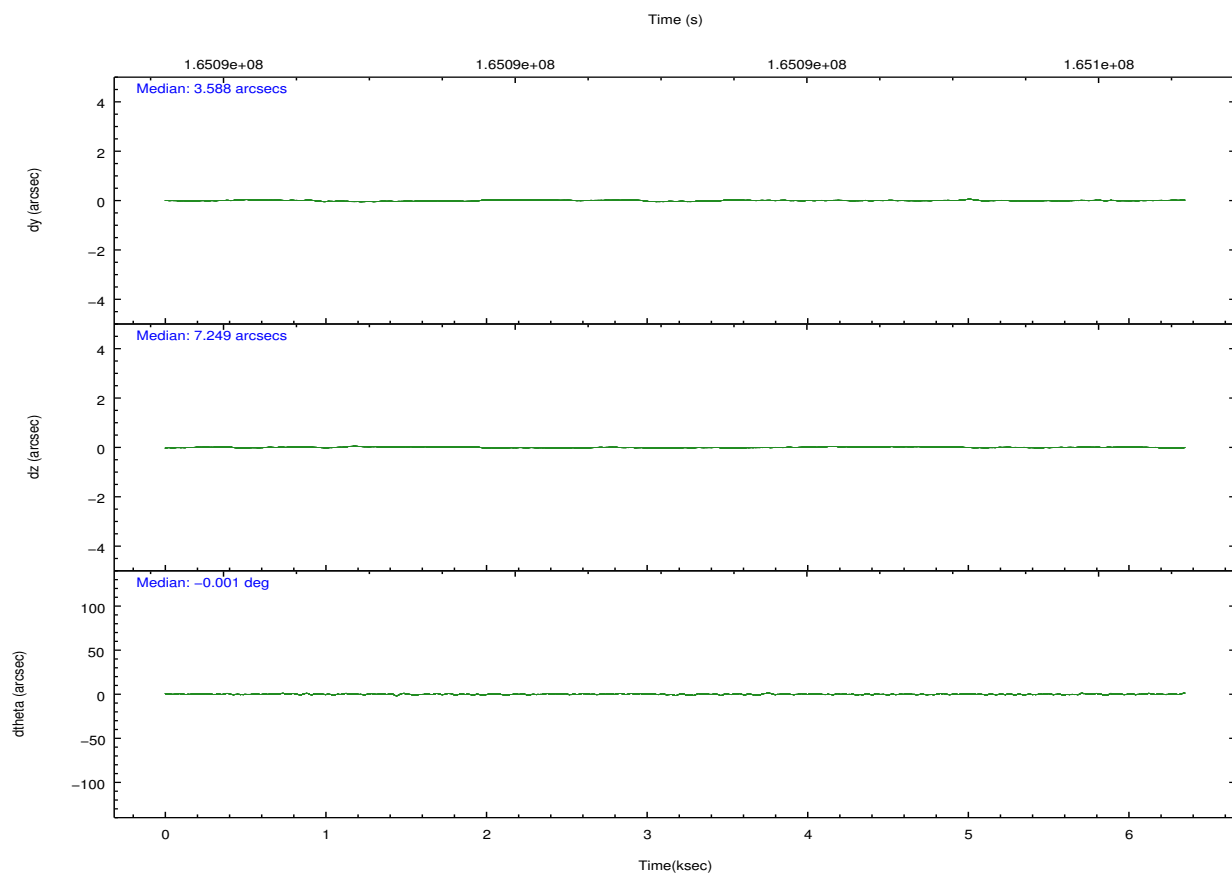
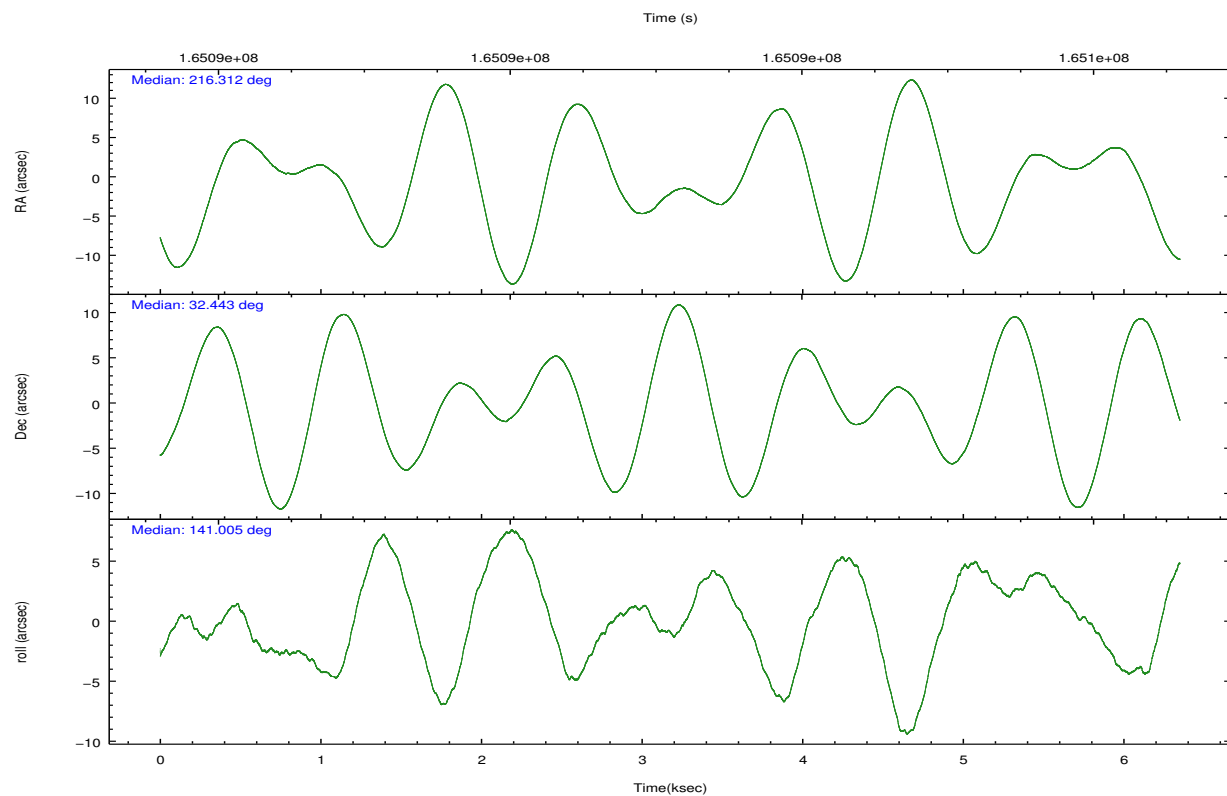
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 1734 | 1723 | 1717 | 1610 | 1445 |
| | 5% | 5% | 5% | 4% | 4% |
| grade 1 events | 14 | 17 | 18 | 14 | 15 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 846 | 838 | 761 | 713 | 790 |
| | 2% | 2% | 2% | 2% | 2% |
| grade 3 events | 406 | 375 | 357 | 401 | 370 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 349 | 418 | 337 | 356 | 367 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 1324 | 1369 | 1203 | 1424 | 1445 |
| | 4% | 4% | 3% | 4% | 4% |
| grade 6 events | 679 | 820 | 660 | 655 | 730 |
| | 2% | 2% | 1% | 2% | 2% |
| grade 7 events | 26037 | 25794 | 28251 | 27215 | 27819 |
| | 82% | 82% | 84% | 84% | 84% |

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 | 216.343835 | 216.3116706430349 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 32.438360 | 32.44257662712803 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 140.784181 | 141.0101326556403 | [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) | 165091269.184000 | 165089723.58726 | | | |
| Observation start date | 2003-03-26T18:40:05 | 2003-03-26T18:15:23 | | | |
| [s] Observation end time (MET) | 165096269.184000 | 165096403.51254 | | | |
| Observation end date | 2003-03-26T20:03:25 | 2003-03-26T20:06:43 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



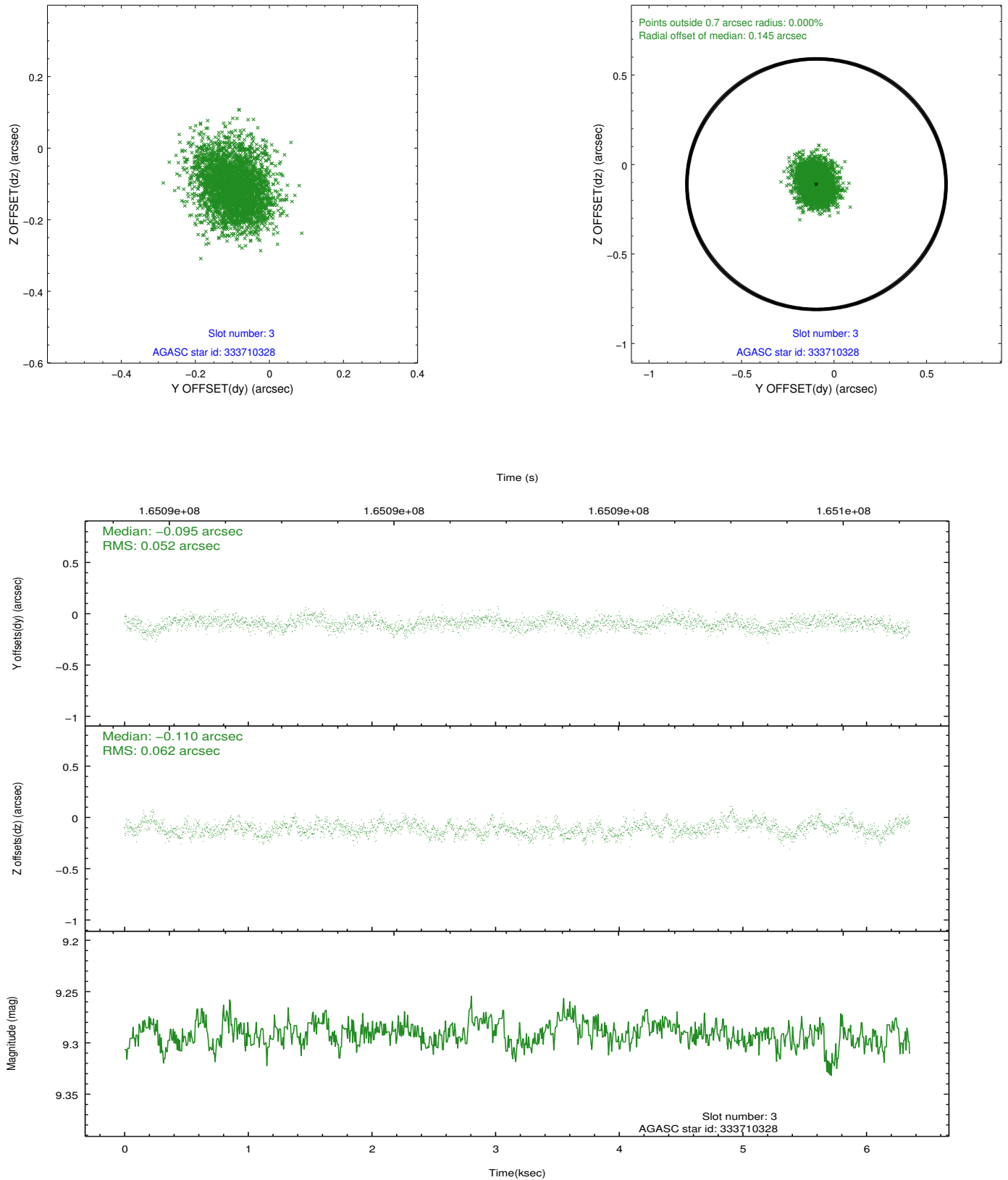


Slot Statistics

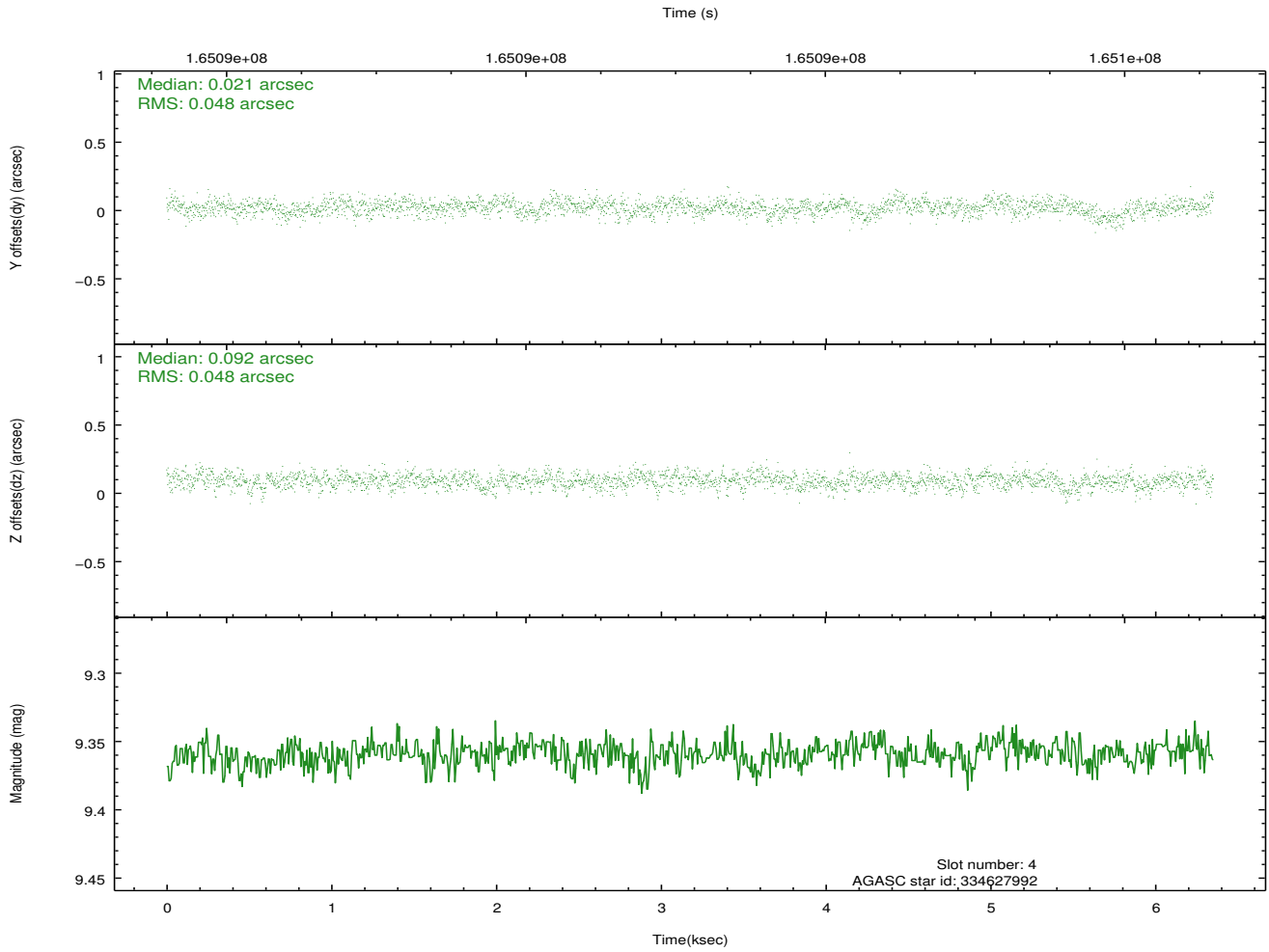
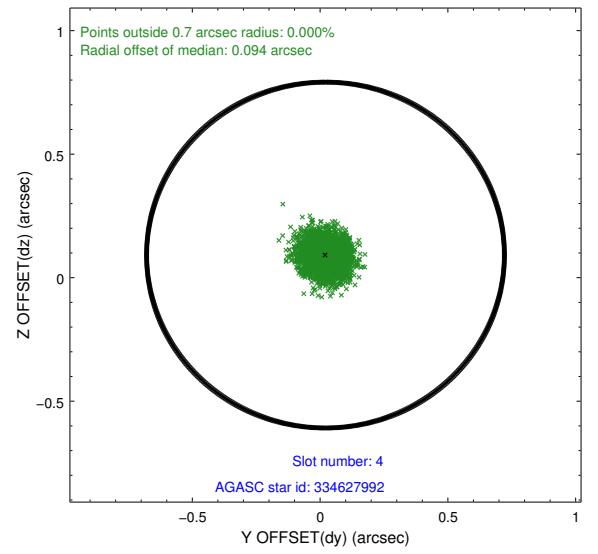
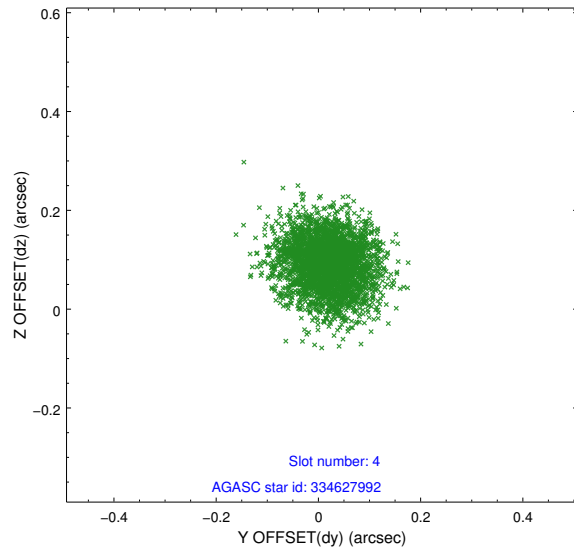
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.25 | 1547 | 0.021 | 0.016 | 0.006 | 0.011 | 0.000000 | 0.000000 | 936.20 | -830.65 |
| 1 | FID | ACIS-I-5 | 7.24 | 1548 | -0.096 | 0.062 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1811.48 | 1066.47 |
| 2 | FID | ACIS-I-6 | 7.26 | 1548 | -0.016 | -0.009 | 0.007 | 0.011 | 0.000000 | 0.000000 | 400.74 | 1711.92 |
| 3 | GUIDE | 333710328 | 9.29 | 3094 | -0.095 | -0.110 | 0.087 | 0.141 | 215.919797 | 32.382995 | 874.41 | 967.86 |
| 4 | GUIDE | 334627992 | 9.36 | 3095 | 0.021 | 0.092 | 0.073 | 0.118 | 216.814353 | 32.274859 | -1479.55 | -451.29 |
| 5 | GUIDE | 334629904 | 9.57 | 3096 | 0.055 | -0.158 | 0.118 | 0.199 | 216.267494 | 31.709687 | -1478.18 | 2180.15 |
| 6 | GUIDE | 335030152 | 9.71 | 3096 | -0.087 | 0.103 | 0.108 | 0.177 | 216.202154 | 33.091054 | 1816.29 | -1549.29 |
| 7 | GUIDE | 334627104 | 9.72 | 3094 | 0.113 | 0.078 | 0.091 | 0.149 | 217.006799 | 32.294654 | -1885.56 | -879.83 |

2.4 Star Slots

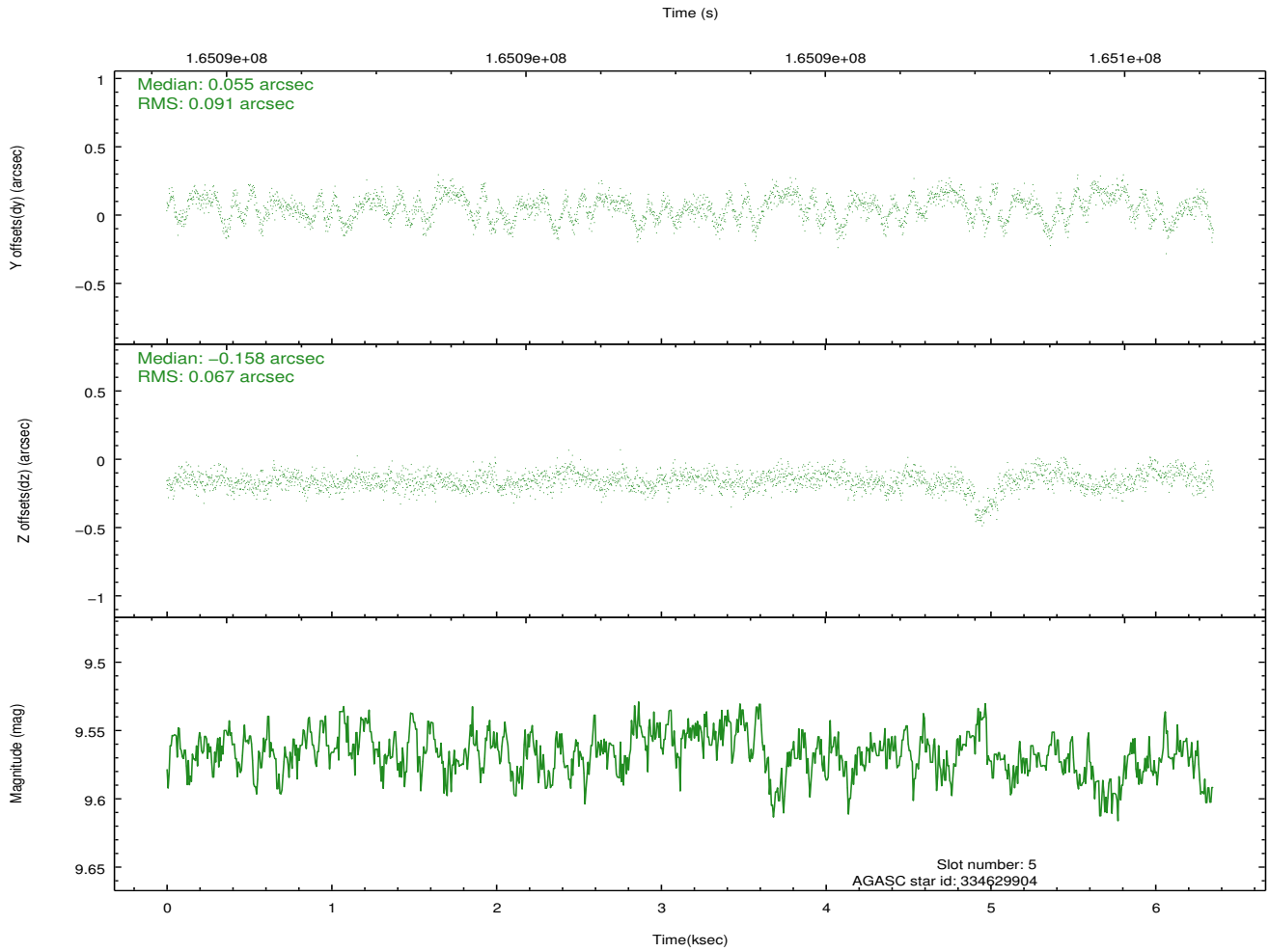
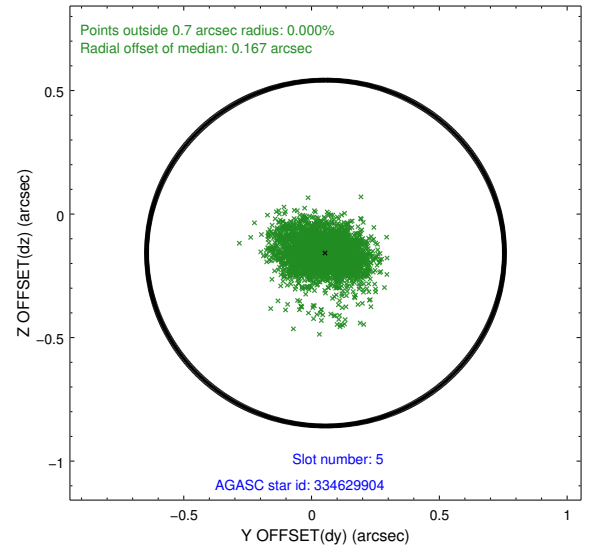
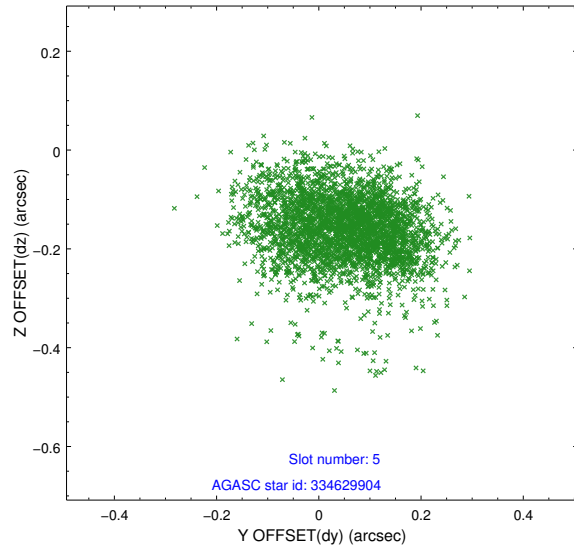
2.4.1 Slot 3



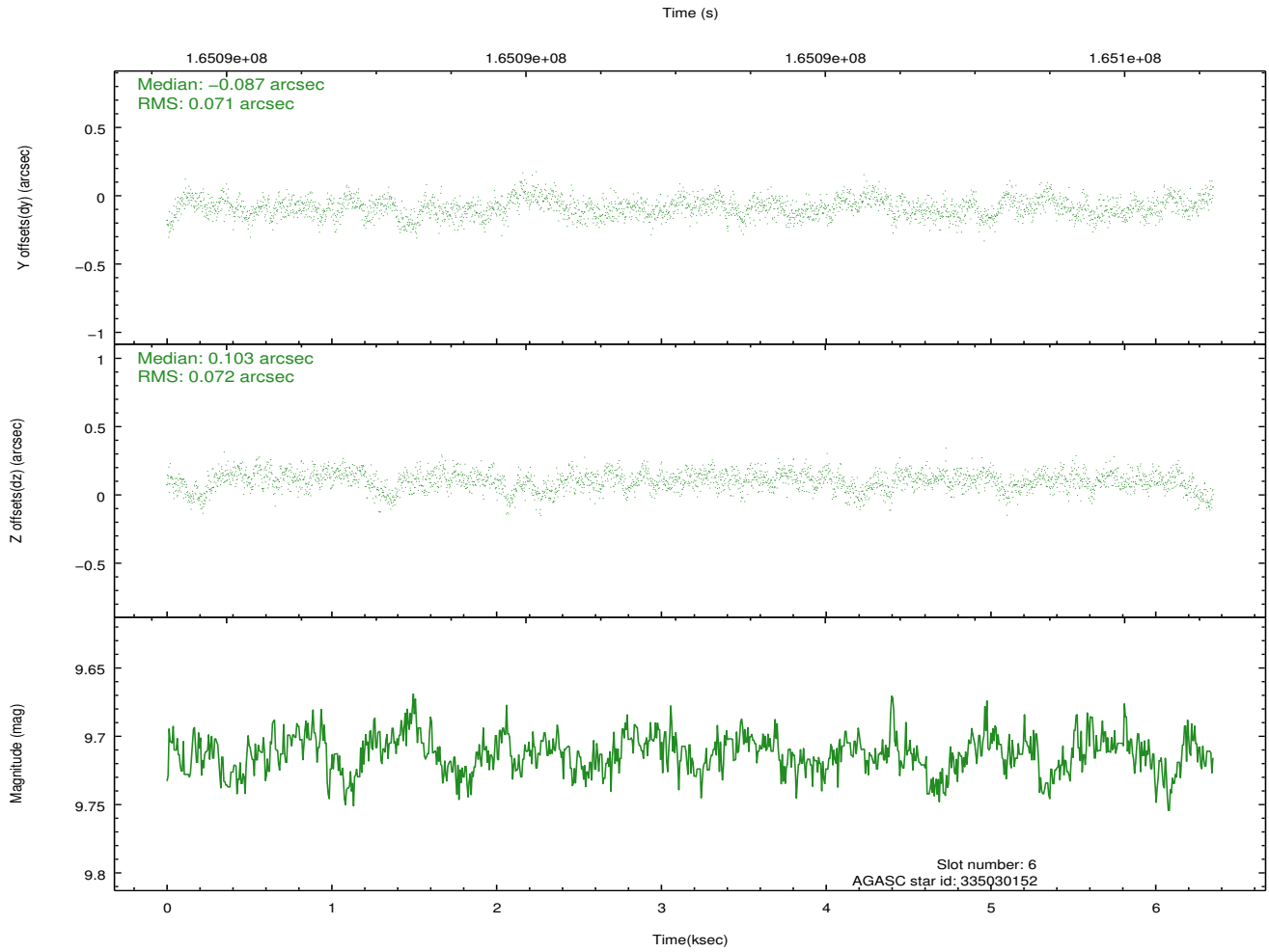
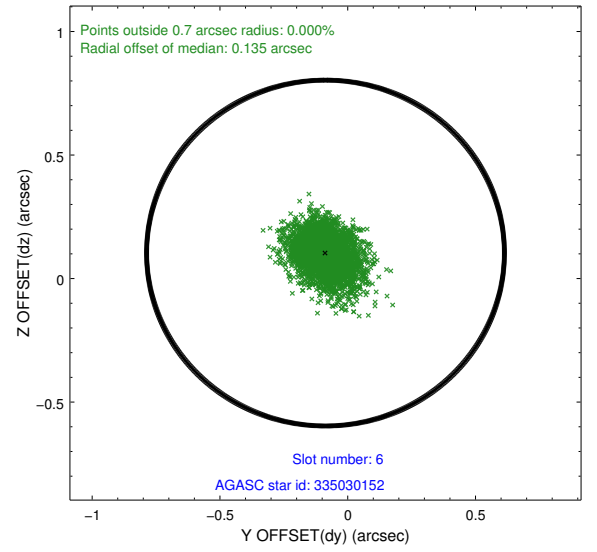
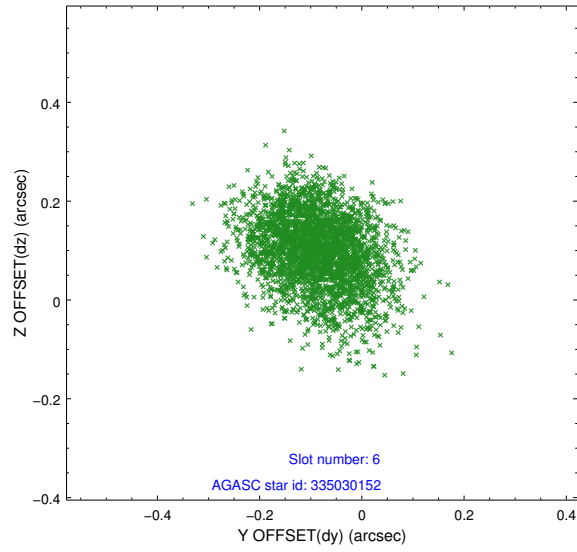
2.4.2 Slot 4



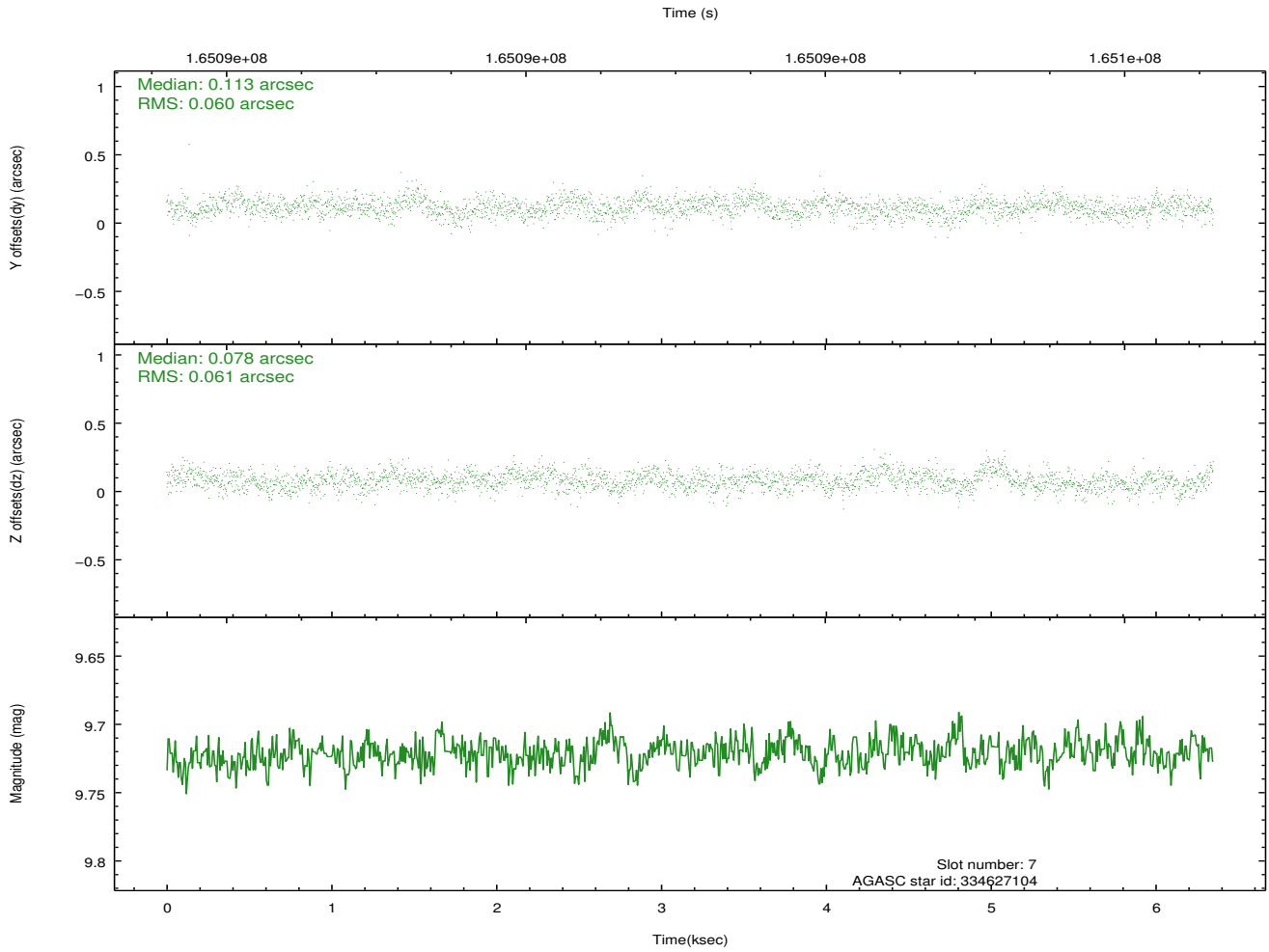
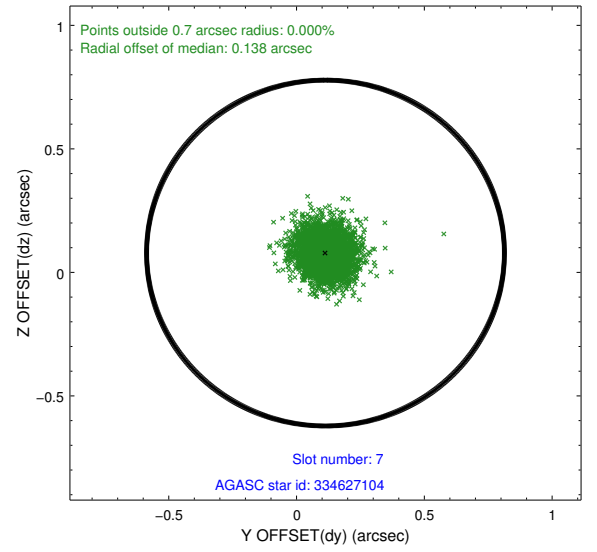
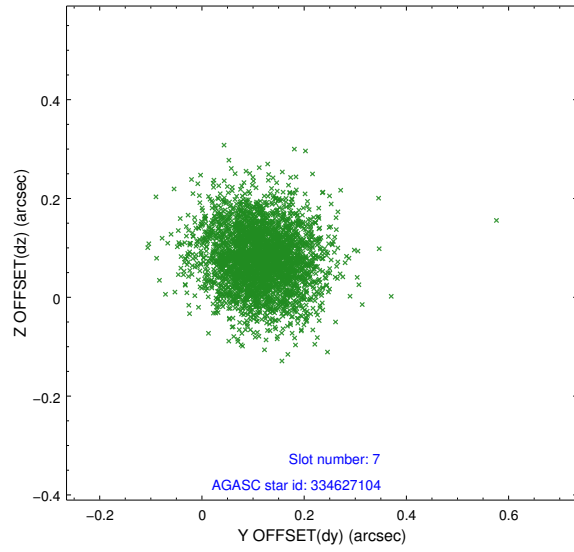
2.4.3 Slot 5



2.4.4 Slot 6

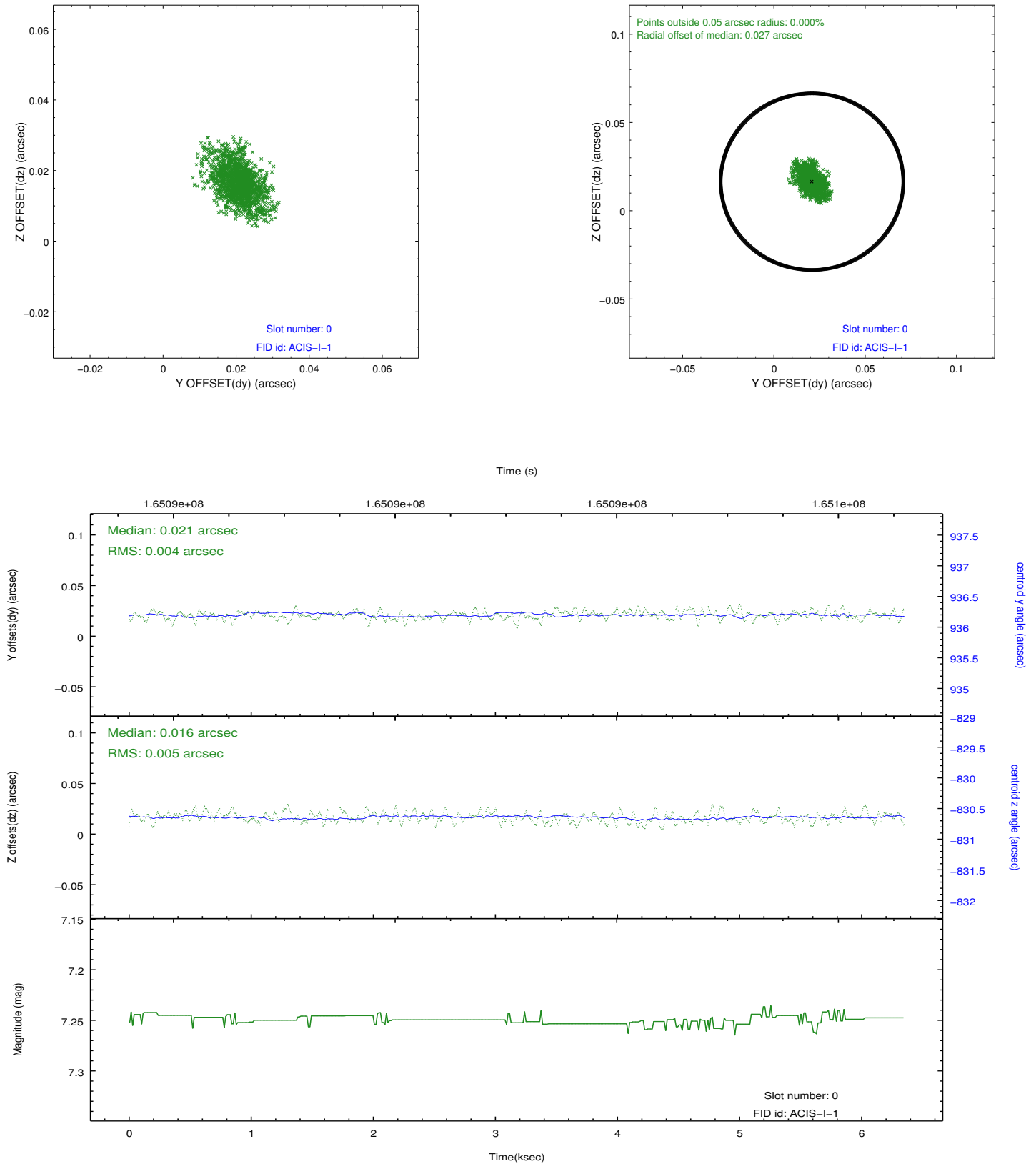


2.4.5 Slot 7

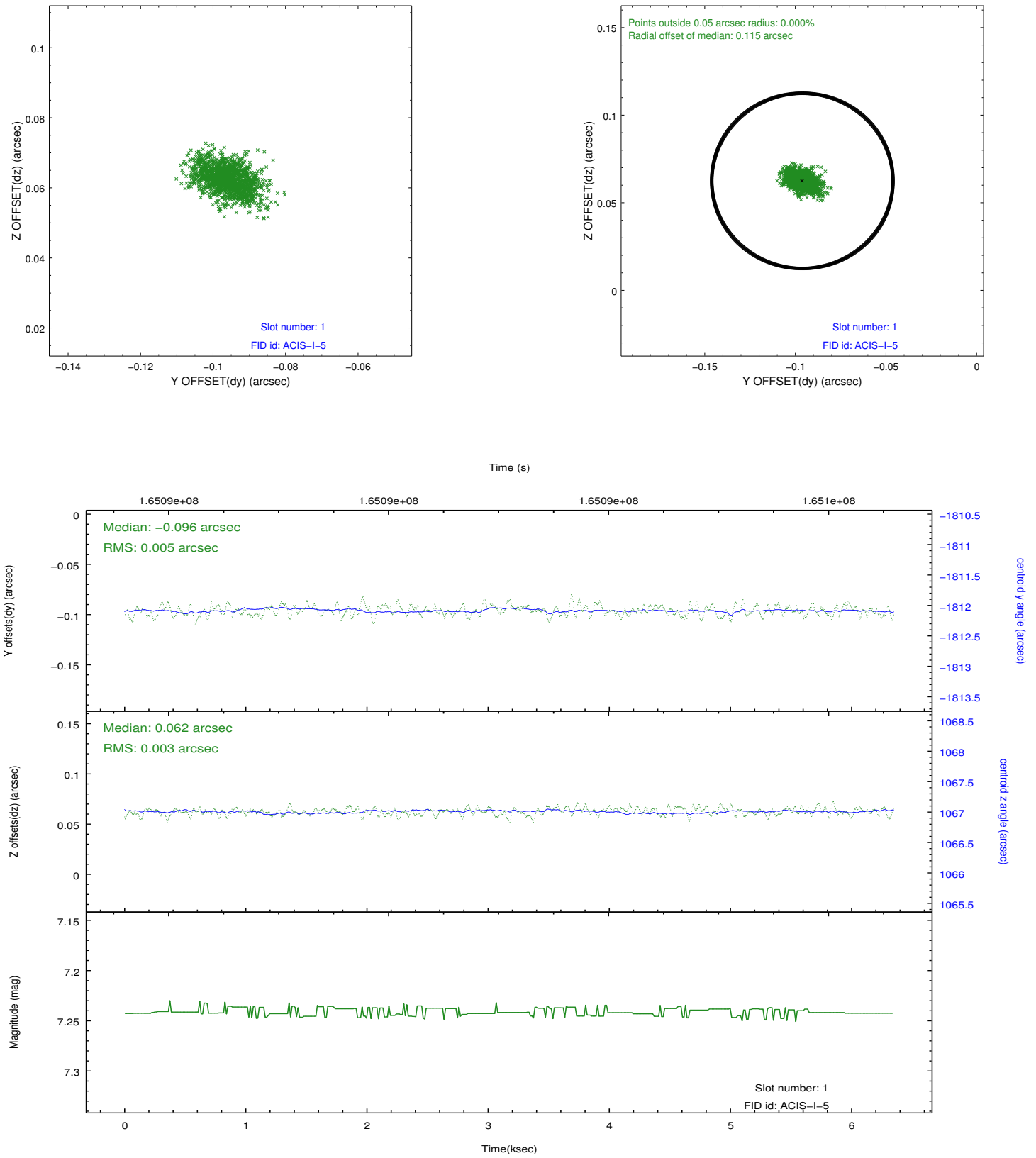


2.5 FID Slots

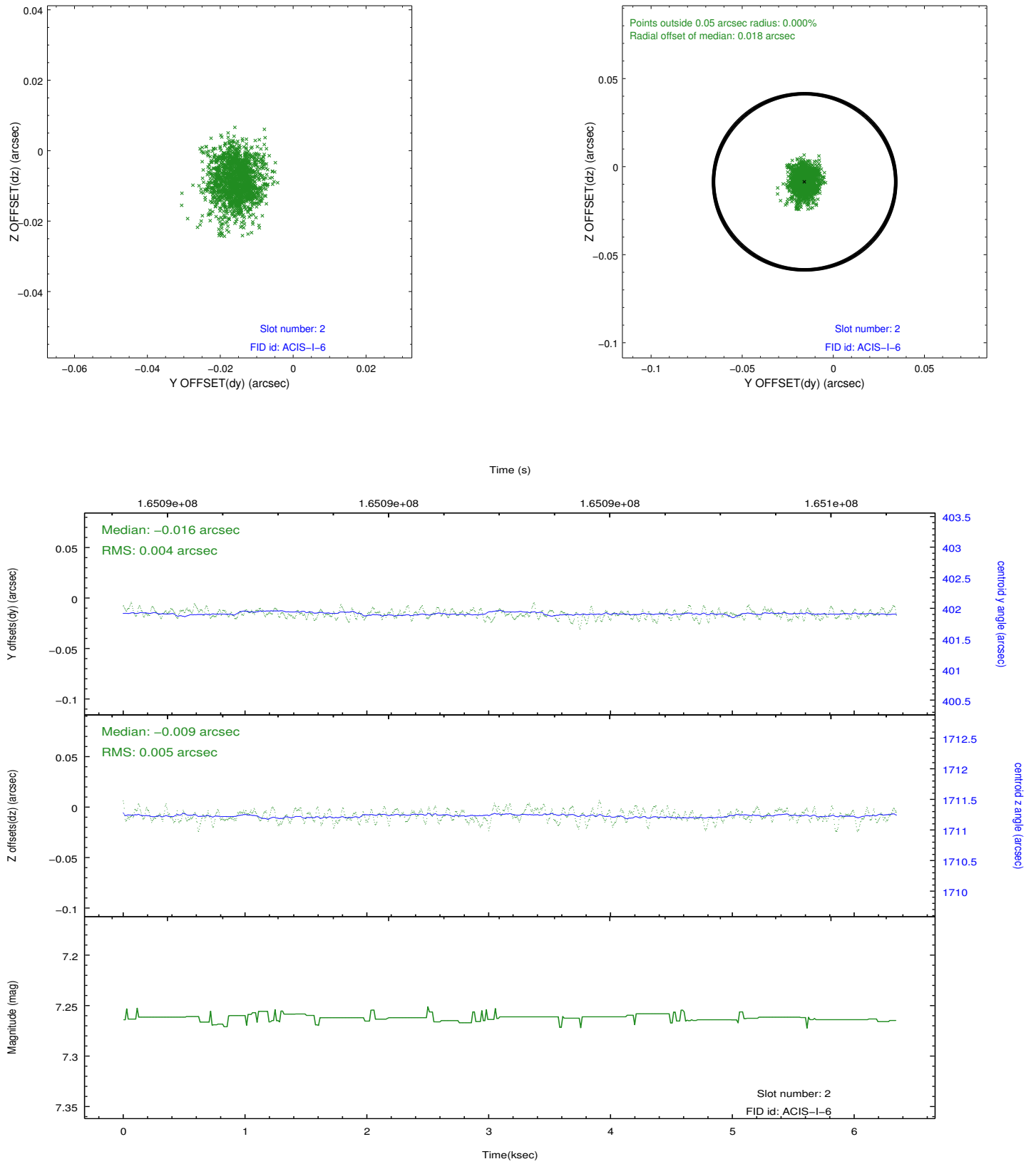
2.5.1 Slot 0



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) | 2012.11.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.114 |

A.2 Comments