

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7102 - L2 Version 2
Chandra X-Ray Center

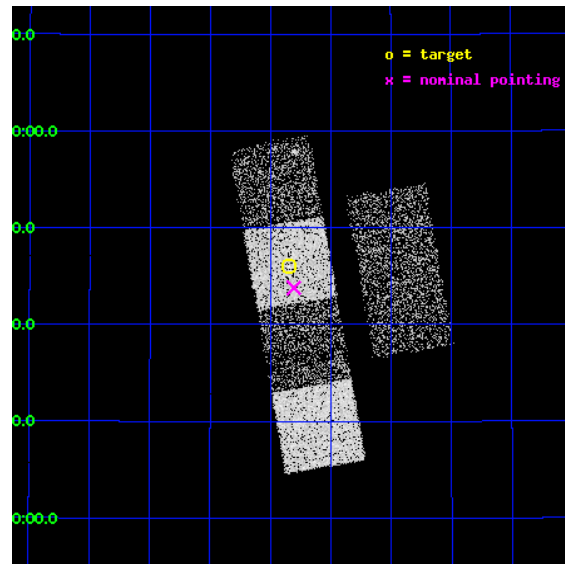
L2 Processing Date : Apr 3 2012

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1 Front

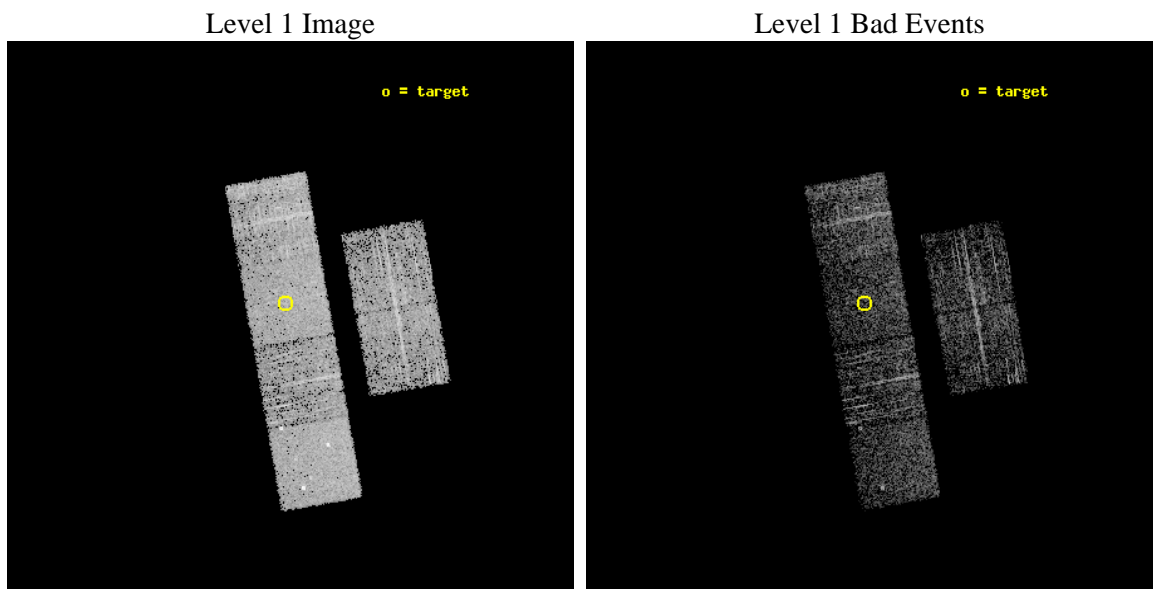
| | | |
|----------|--|---|
| seq_num | 600540 | Sequence number |
| obs_id | 7102 | Observation id |
| title | A Complete Sample of ULX Host Galaxies | Proposal title |
| observer | Douglas Swartz | Principal investigator |
| object | NGC 3413 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 162.83625 | Observer's specified target RA [deg] |
| dec_targ | 32.766389 | Observer's specified target Dec [deg] |
| ra_nom | 162.82639349687 | Nominal RA [deg] |
| dec_nom | 32.73001754119 | Nominal Dec [deg] |
| roll_nom | 259.94980115676 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 1755.5327811241 | Sum of GTIs [s] |
| livetime | 1733.3031679946 | Livetime [s] |
| ontime2 | 1755.5738211274 | Sum of GTIs [s] |
| ontime3 | 1755.4096611142 | Sum of GTIs [s] |
| ontime5 | 1755.4917411208 | Sum of GTIs [s] |
| ontime6 | 1755.4507011175 | Sum of GTIs [s] |
| ontime7 | 1755.5327811241 | Sum of GTIs [s] |
| ontime8 | 1752.1275313497 | Sum of GTIs [s] |
| l2events | 26063 | Number of level 2 events |



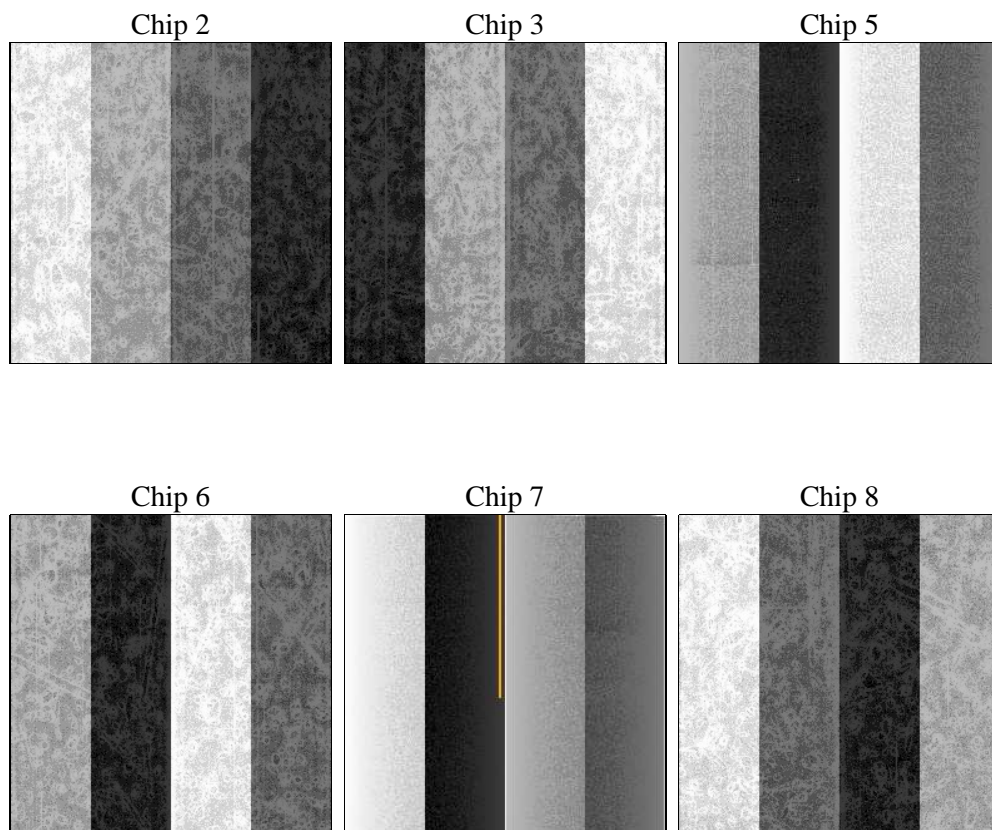
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 1755.5327811241 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 1755.5738211274 | Sum of GTIs [s] |
| date | 2012-04-04T00:37:41 | Date and time of file creation | ontime3 | 1755.4096611142 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 1755.4917411208 | Sum of GTIs [s] |
| | | | ontime6 | 1755.4507011175 | Sum of GTIs [s] |
| | | | ontime7 | 1755.5327811241 | Sum of GTIs [s] |
| | | | ontime8 | 1752.1275313497 | Sum of GTIs [s] |
| | | | l1events | 120065 | Number of level 1 events |

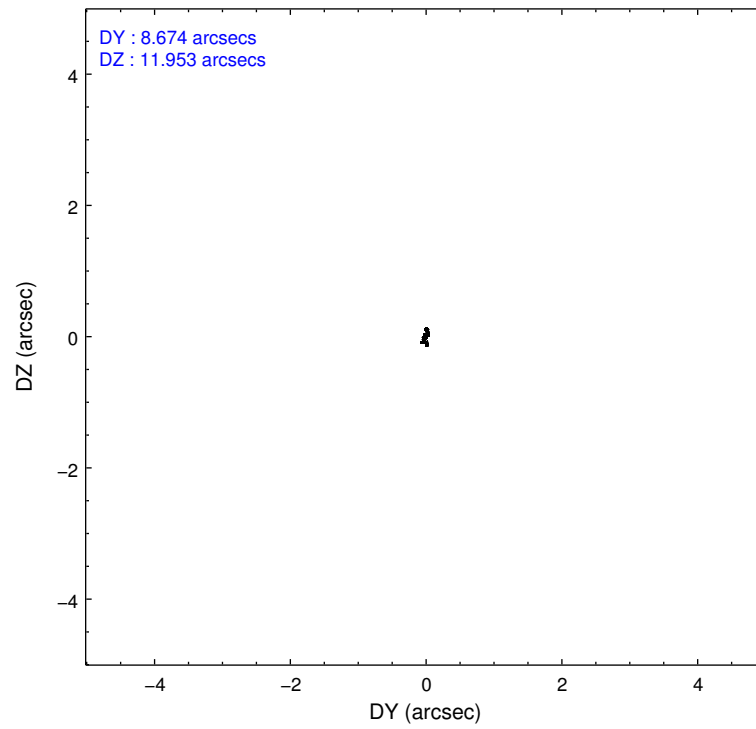
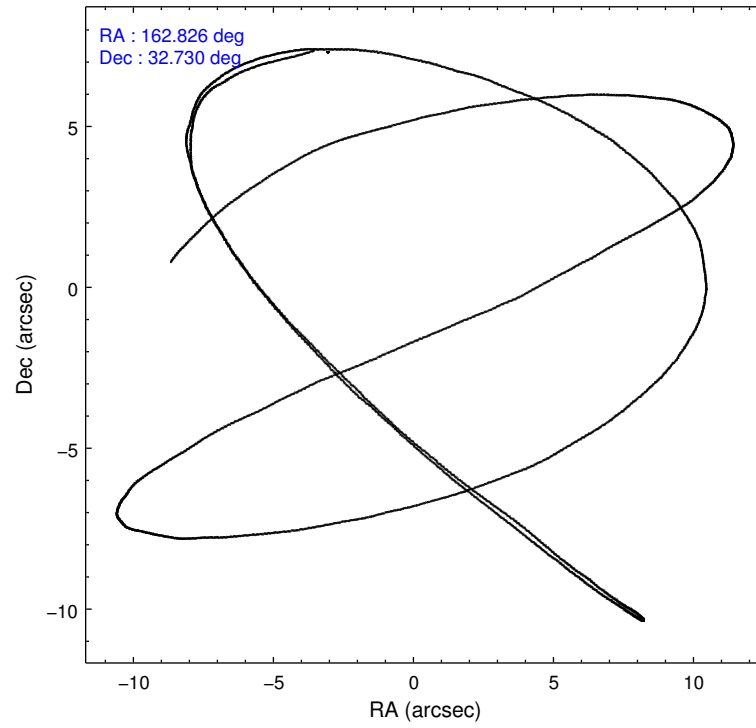
2.1.4 Events

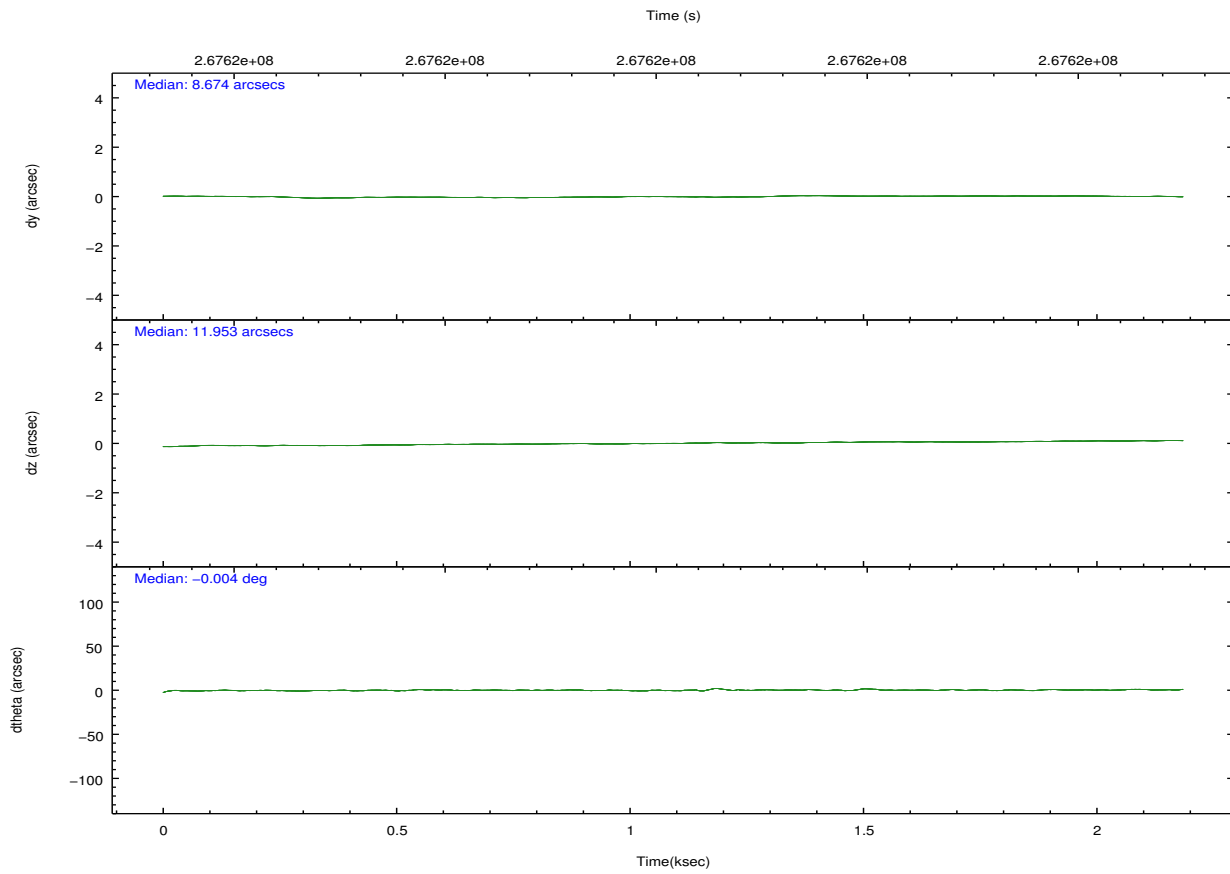
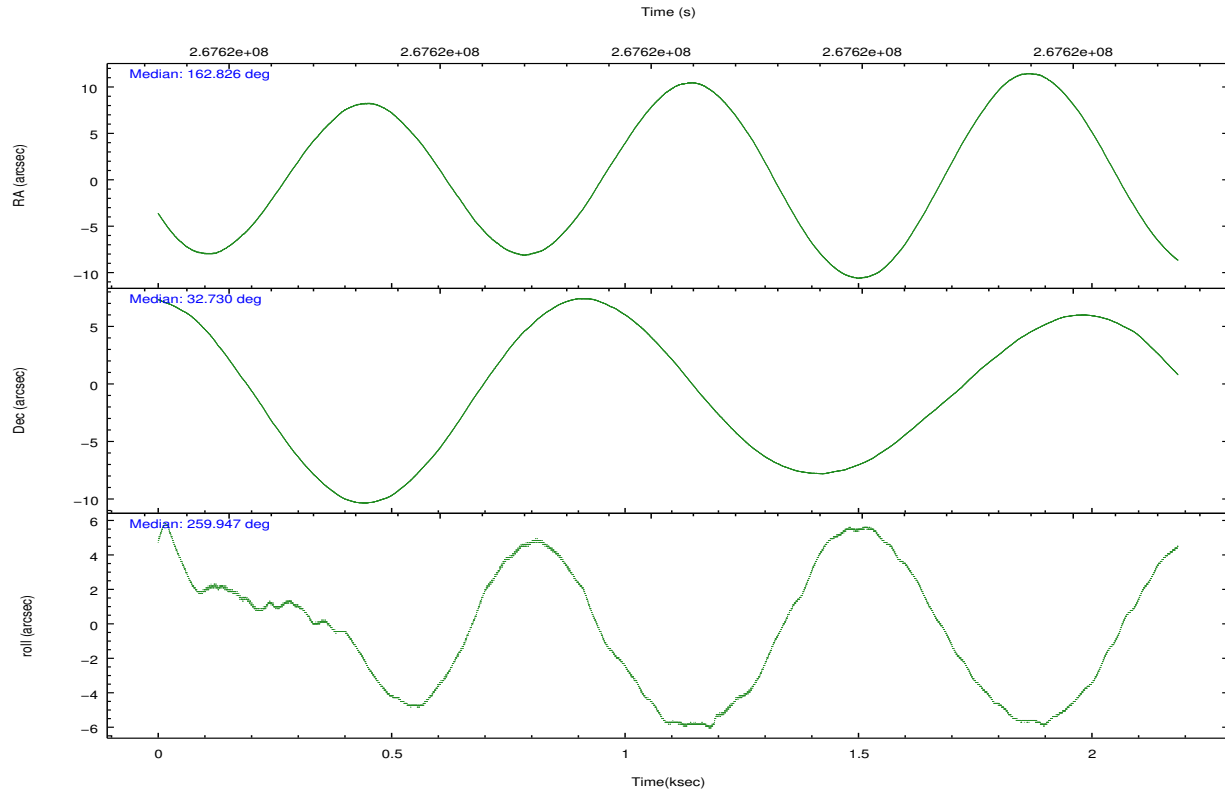
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 16240 | 15984 | 25605 | 16238 | 21839 | 24159 | grade 0 events | 769 | 750 | 1378 | 803 | 793 | 1324 |
| rejected events | 14340 | 14182 | 13449 | 14288 | 12850 | 19475 | | 4% | 4% | 5% | 4% | 3% | 5% |
| rejected % | 88% | 88% | 52% | 87% | 58% | 80% | grade 1 events | 7 | 6 | 71 | 12 | 25 | 19 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 425 | 350 | 3726 | 422 | 1752 | 1052 |
| | | | | | | | | 2% | 2% | 14% | 2% | 8% | 4% |
| | | | | | | | grade 3 events | 201 | 181 | 424 | 172 | 768 | 498 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 4 events | 184 | 176 | 428 | 199 | 767 | 443 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 1% |
| | | | | | | | grade 5 events | 642 | 693 | 1741 | 730 | 2099 | 946 |
| | | | | | | | | 3% | 4% | 6% | 4% | 9% | 3% |
| | | | | | | | grade 6 events | 323 | 347 | 6216 | 359 | 4923 | 1368 |
| | | | | | | | | 1% | 2% | 24% | 2% | 22% | 5% |
| | | | | | | | grade 7 events | 13689 | 13481 | 11621 | 13541 | 10712 | 18509 |
| | | | | | | | | 84% | 84% | 45% | 83% | 49% | 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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 162.814961 | 162.8263934968721 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 32.755385 | 32.73001754119005 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 259.799370 | 259.9498011567638 | [s] Primary exposure time | 0.000000 | 3.2 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 267621129.184000 | 267620652.42165 | | | |
| Observation start date | 2006-06-25T11:11:04 | 2006-06-25T11:04:12 | | | |
| [s] Observation end time (MET) | 267623129.184000 | 267623694.62179 | | | |
| Observation end date | 2006-06-25T11:44:24 | 2006-06-25T11:54:54 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



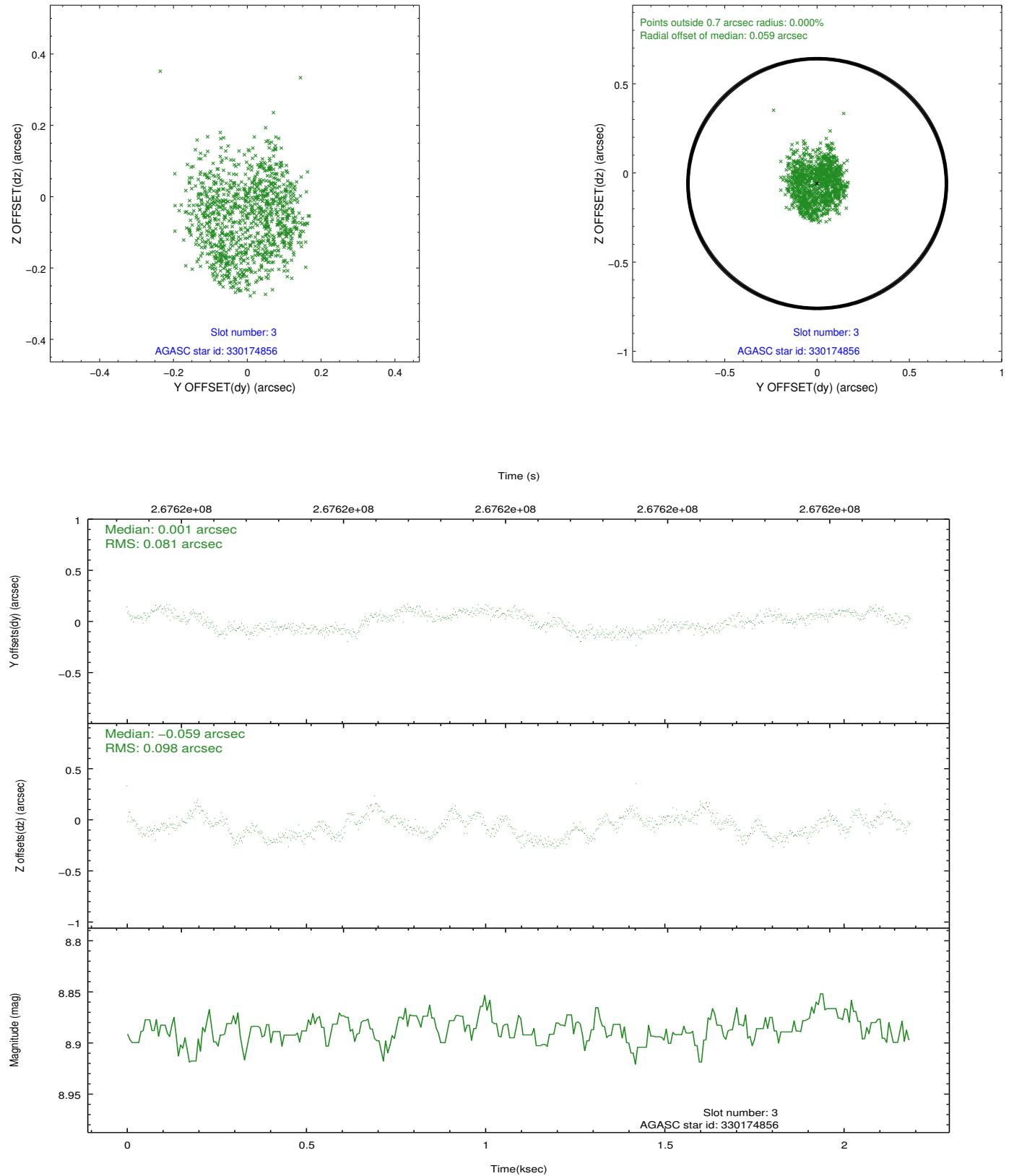


Slot Statistics

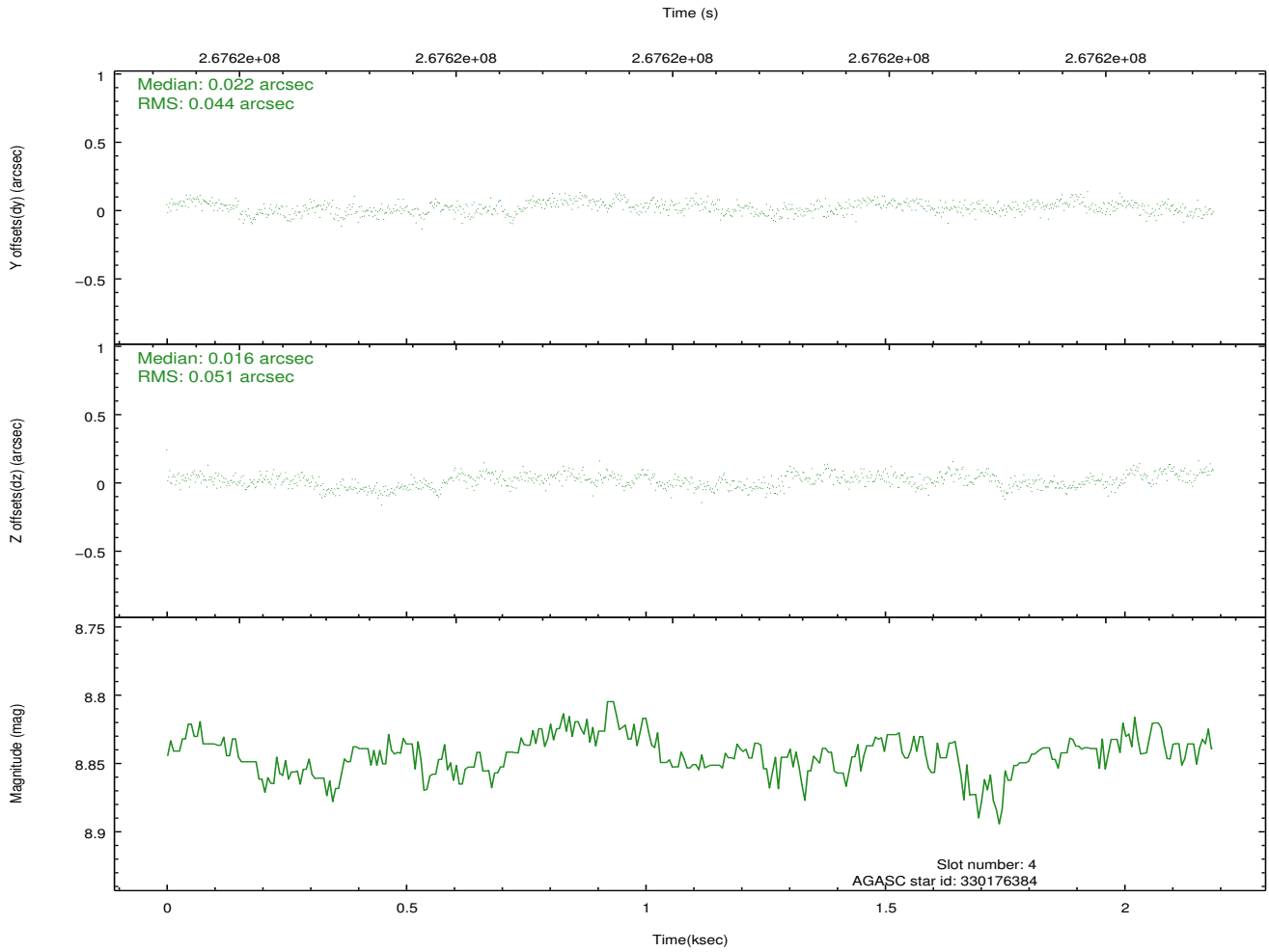
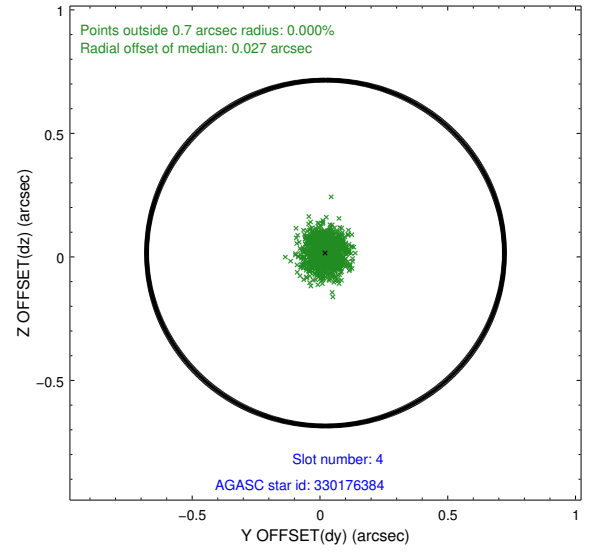
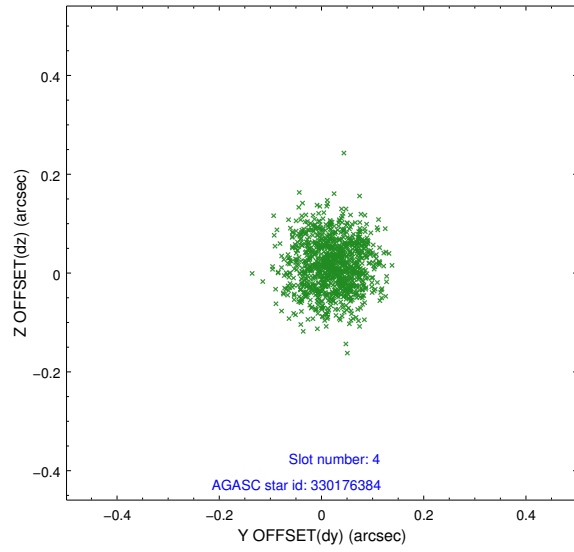
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 533 | -0.014 | -0.022 | 0.007 | 0.012 | 0.000000 | 0.000000 | -761.48 | -1733.22 |
| 1 | FID | ACIS-S-4 | 7.20 | 533 | 0.119 | 0.012 | 0.006 | 0.011 | 0.000000 | 0.000000 | 2150.57 | 172.20 |
| 2 | FID | ACIS-S-5 | 7.23 | 534 | -0.136 | 0.018 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1810.62 | 169.28 |
| 3 | GUIDE | 330174856 | 8.89 | 1066 | 0.001 | -0.059 | 0.139 | 0.200 | 162.081845 | 32.889185 | -88.20 | -2267.59 |
| 4 | GUIDE | 330176384 | 8.84 | 1066 | 0.022 | 0.016 | 0.073 | 0.115 | 163.009586 | 33.043924 | -1125.77 | 392.06 |
| 5 | GUIDE | 330178712 | 8.21 | 1067 | 0.028 | 0.017 | 0.096 | 0.157 | 162.236513 | 32.407638 | 1538.60 | -1508.38 |
| 6 | GUIDE | 330178880 | 7.17 | 1067 | -0.058 | -0.021 | 0.057 | 0.092 | 163.017321 | 32.628628 | 341.96 | 683.62 |
| 7 | GUIDE | 330176128 | 9.56 | 1065 | 0.015 | 0.045 | 0.135 | 0.220 | 163.196528 | 32.990246 | -1037.24 | 984.85 |

2.4 Star Slots

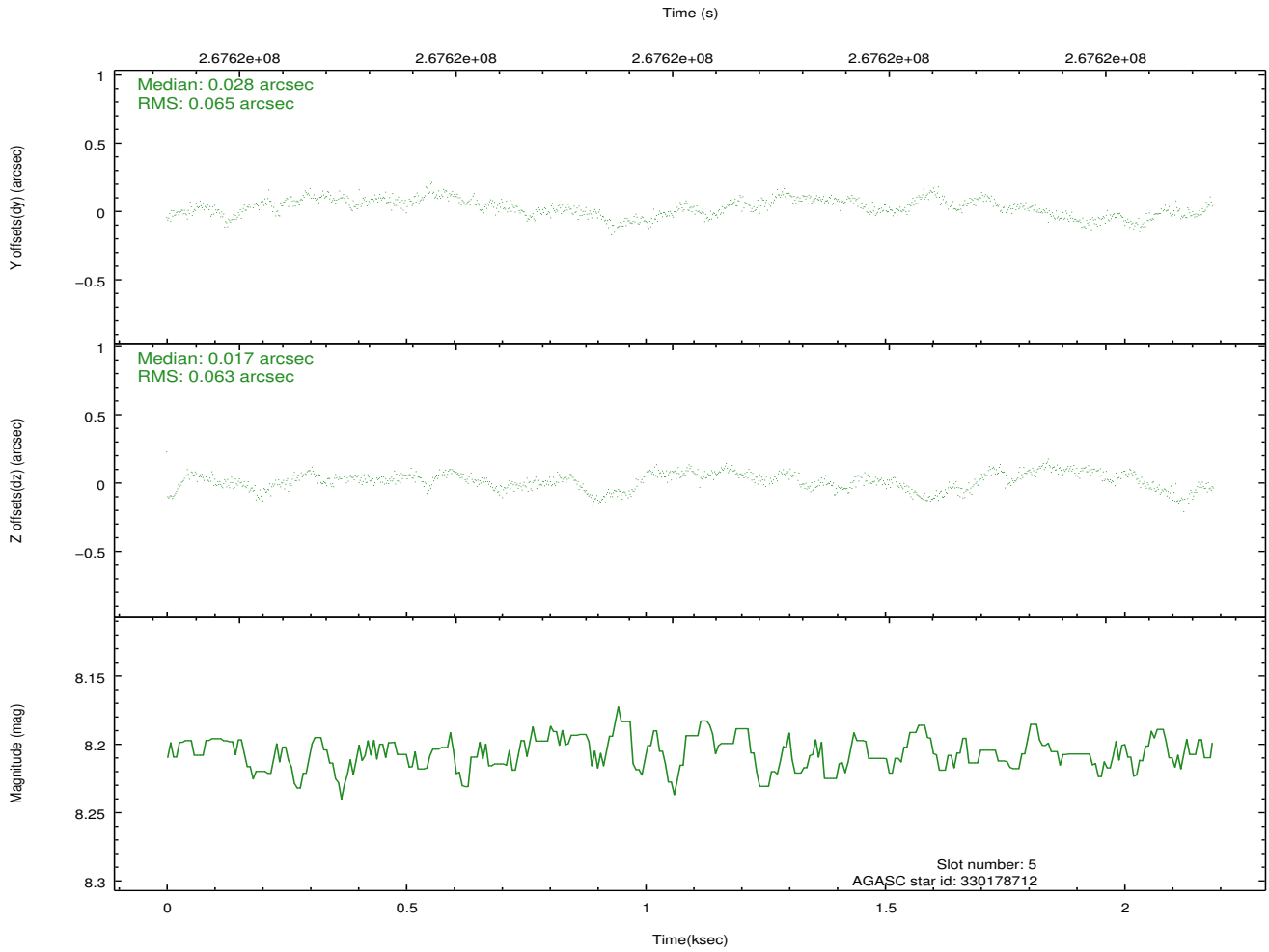
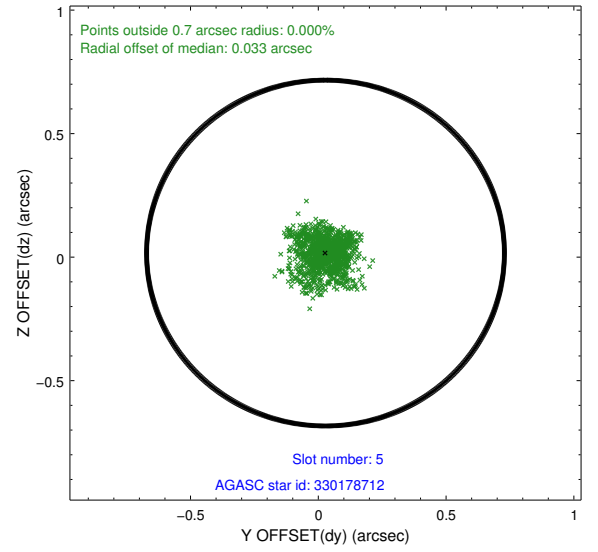
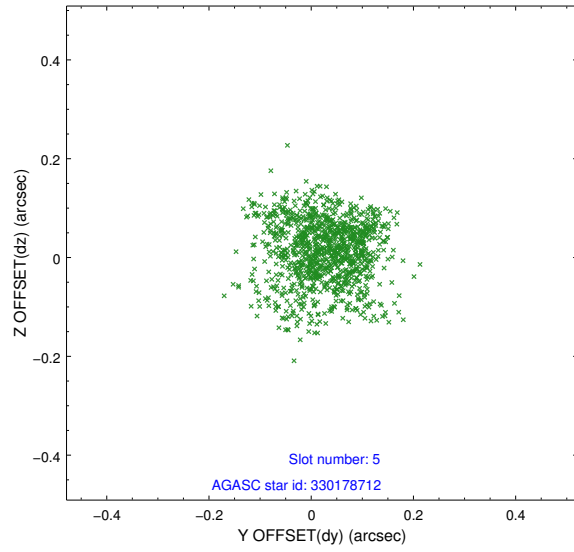
2.4.1 Slot 3



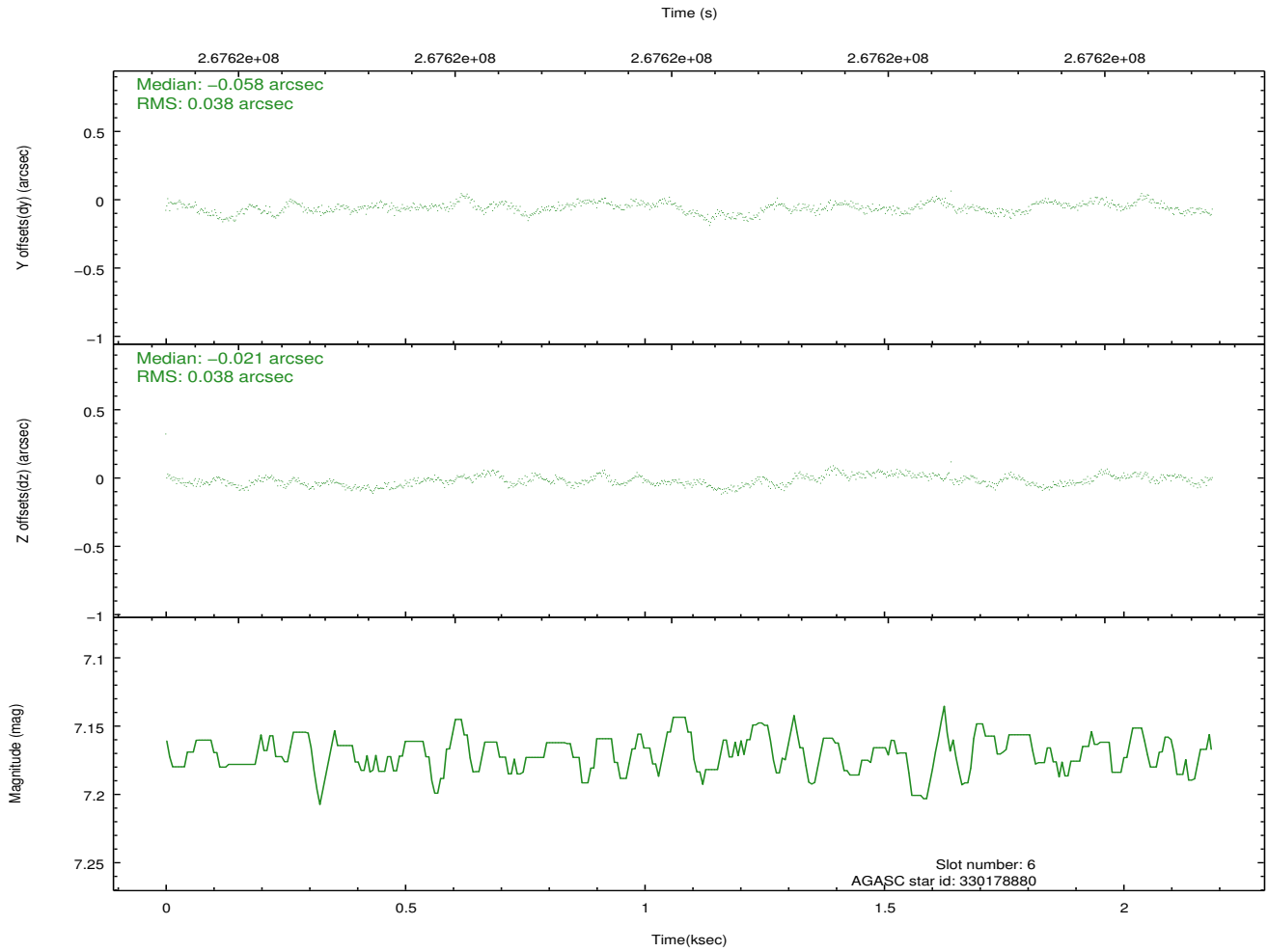
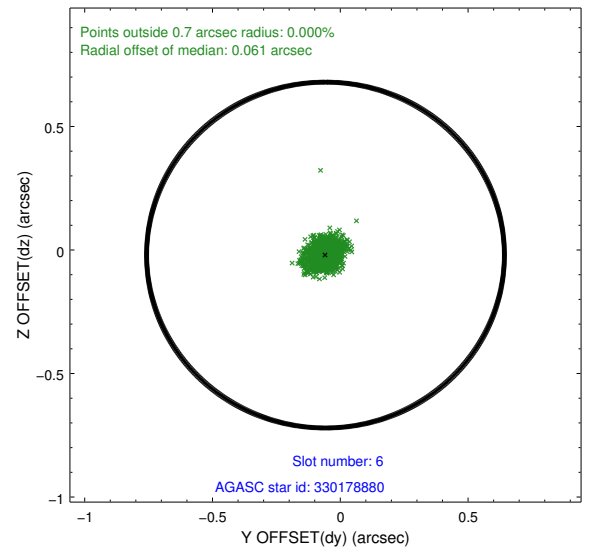
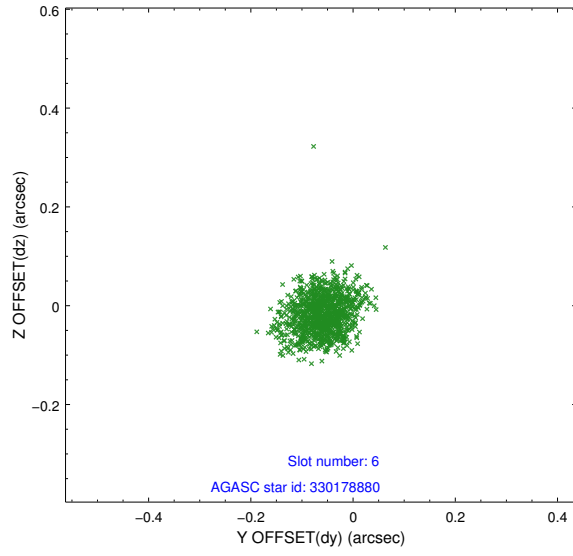
2.4.2 Slot 4



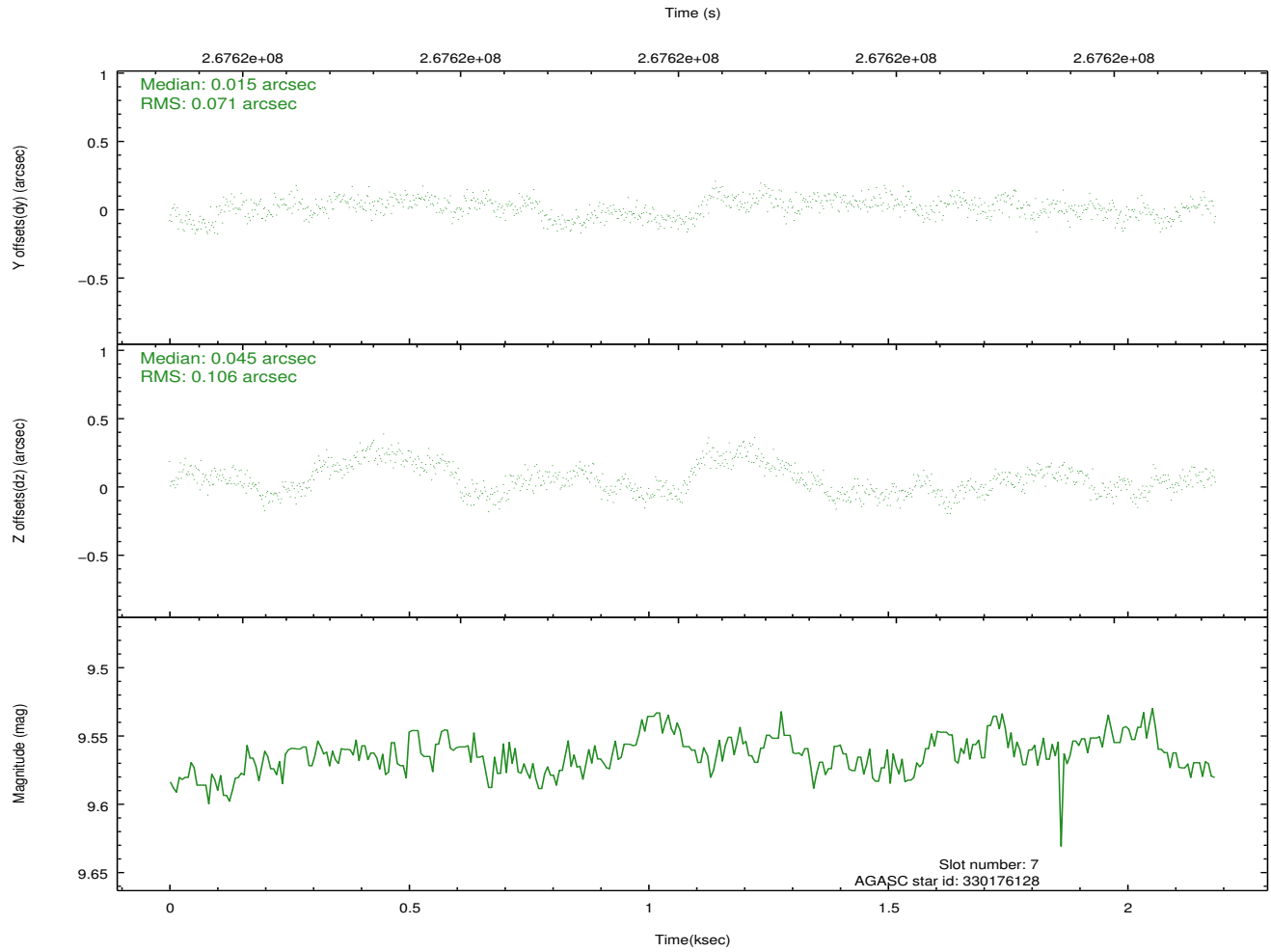
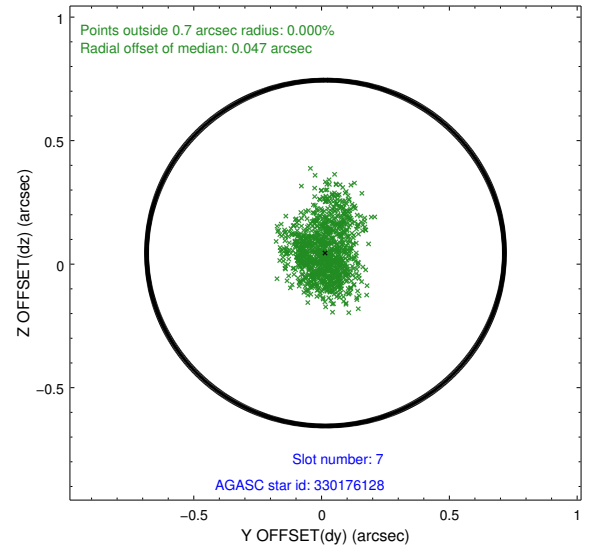
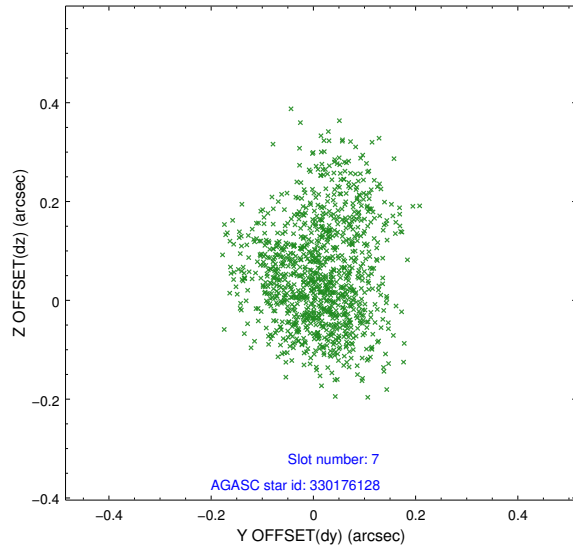
2.4.3 Slot 5



2.4.4 Slot 6

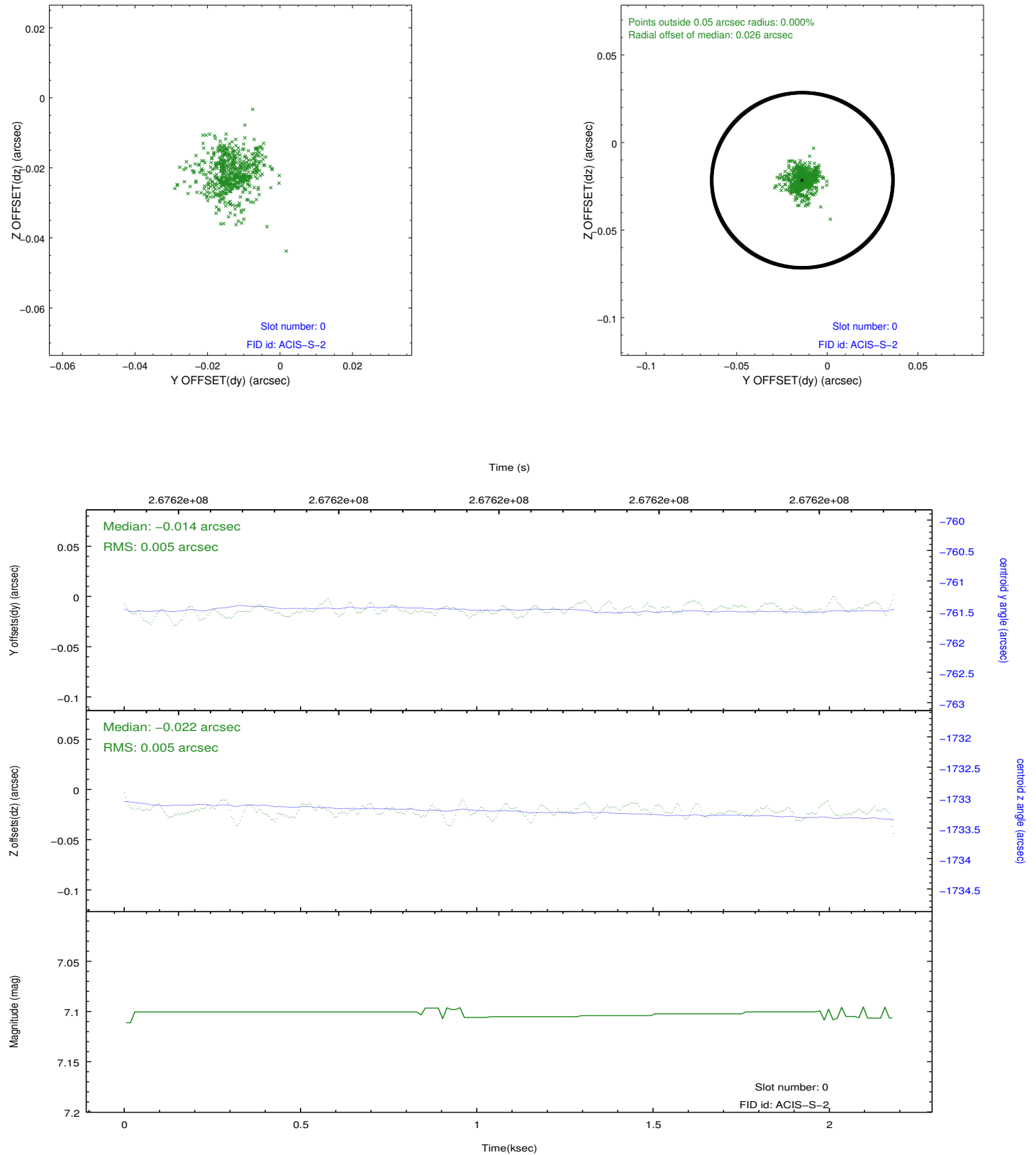


2.4.5 Slot 7

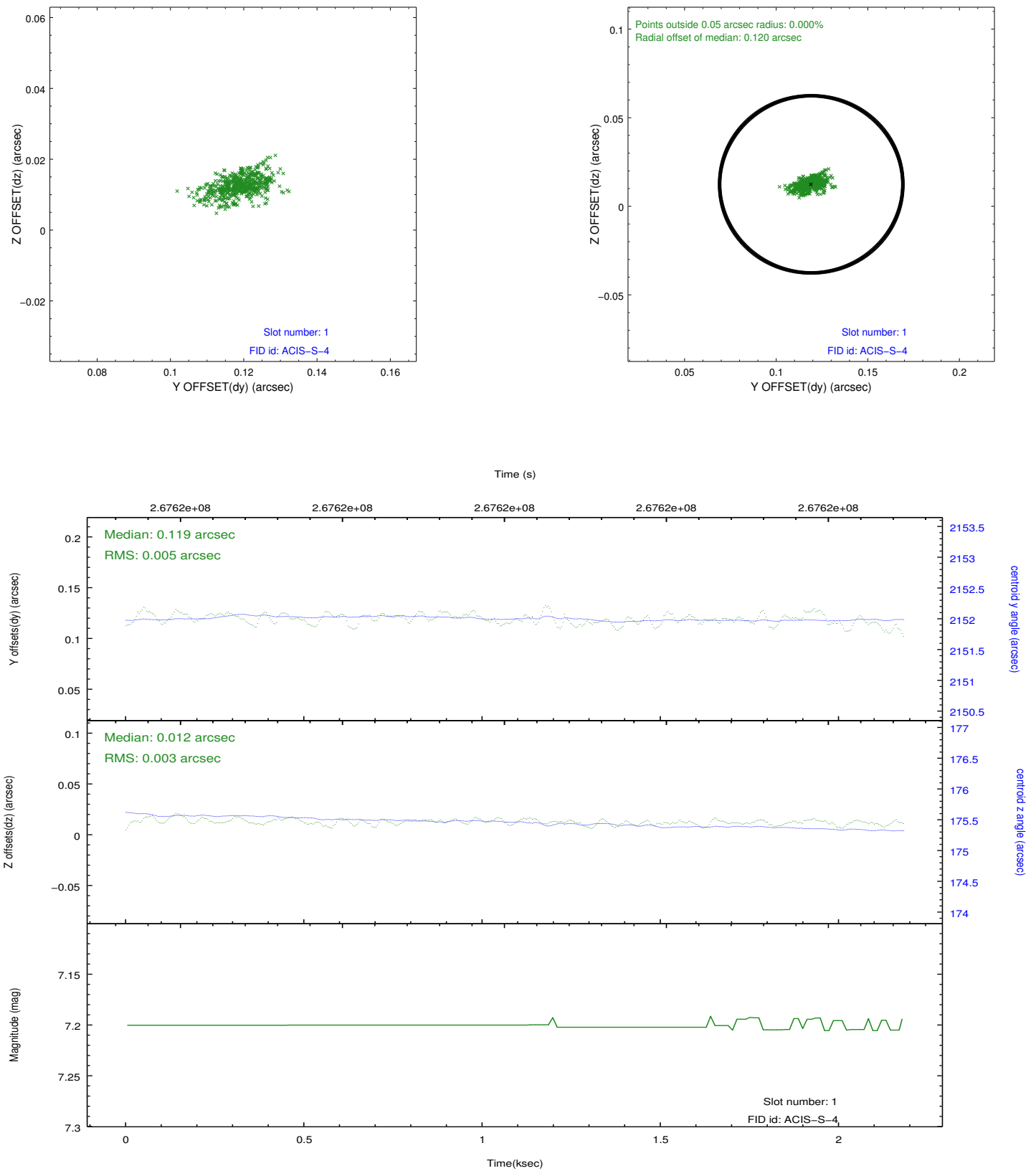


2.5 FID Slots

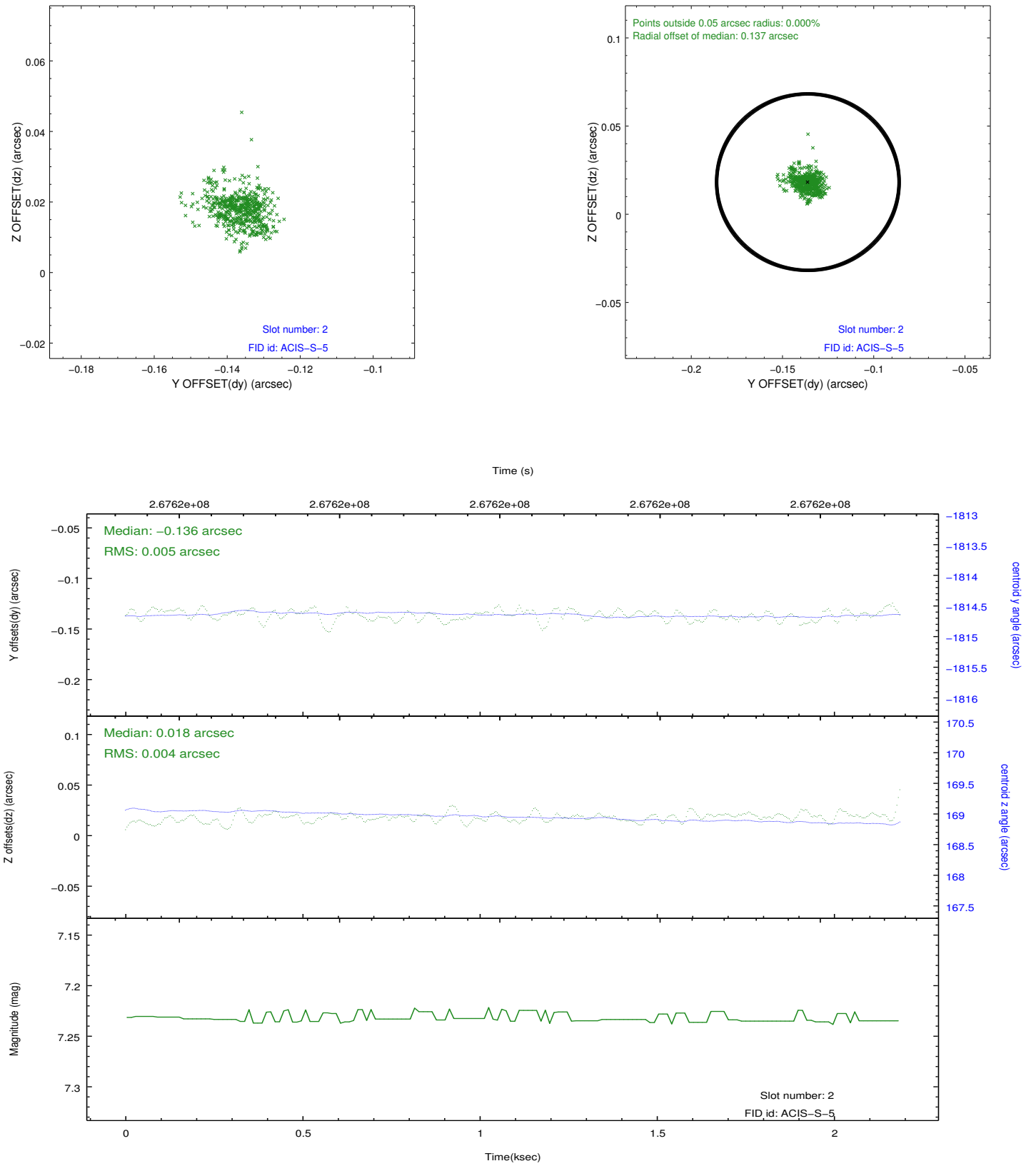
2.5.1 Slot 0



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) | 2012.04.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.75679999 |

A.2 Comments