

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7131 - L2 Version 2
Chandra X-Ray Center

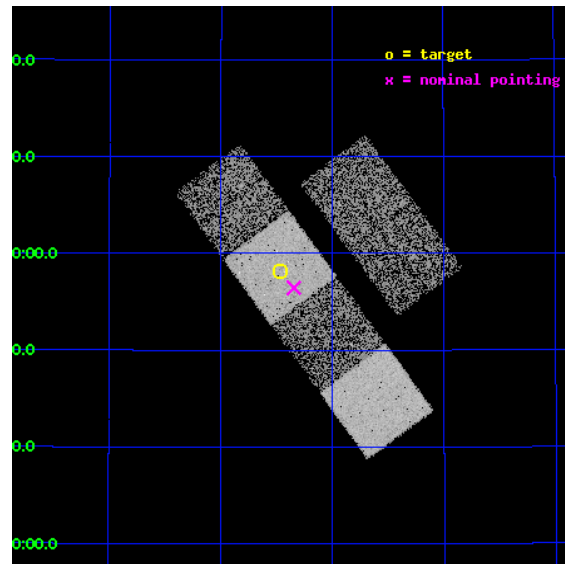
L2 Processing Date : Mar 17 2012

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1 Front

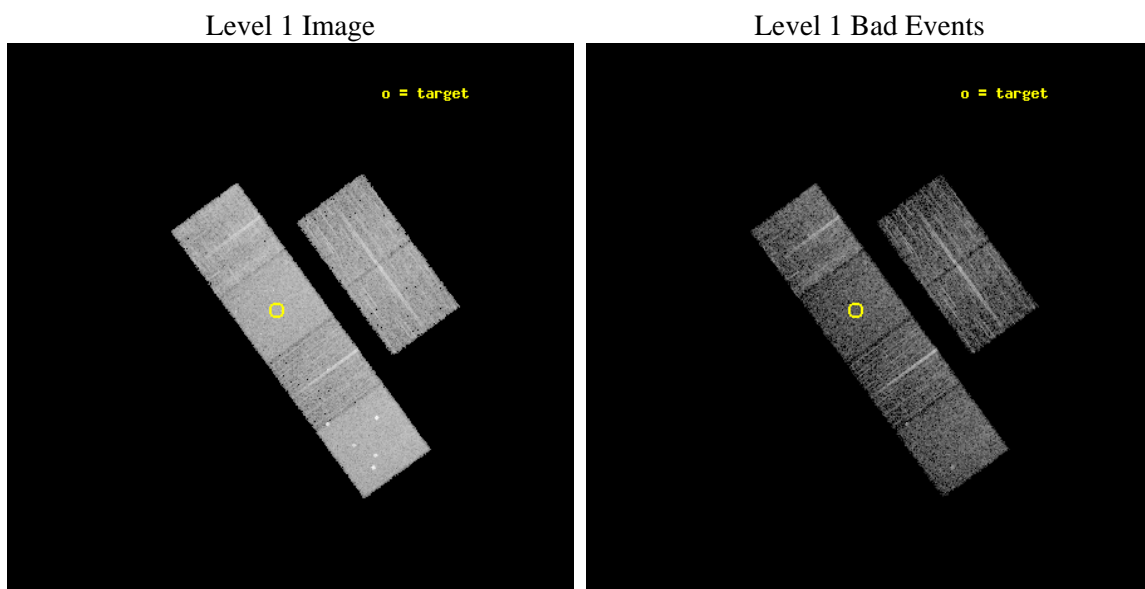
| | | |
|----------|--|---|
| seq_num | 600569 | Sequence number |
| obs_id | 7131 | Observation id |
| title | A Complete Sample of ULX Host Galaxies | Proposal title |
| observer | Dr. Douglas Swartz | Principal investigator |
| object | IC 0239 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 39.11625 | Observer's specified target RA [deg] |
| dec_targ | 38.97 | Observer's specified target Dec [deg] |
| ra_nom | 39.085993371862 | Nominal RA [deg] |
| dec_nom | 38.940918514994 | Nominal Dec [deg] |
| roll_nom | 233.74414171964 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 4591.9999828935 | Sum of GTIs [s] |
| livetime | 4533.8533141396 | Livetime [s] |
| ontime2 | 4591.9999828935 | Sum of GTIs [s] |
| ontime3 | 4591.9999828935 | Sum of GTIs [s] |
| ontime5 | 4591.9999828935 | Sum of GTIs [s] |
| ontime6 | 4591.9999828935 | Sum of GTIs [s] |
| ontime7 | 4591.9999828935 | Sum of GTIs [s] |
| ontime8 | 4588.7590225041 | Sum of GTIs [s] |
| l2events | 60638 | Number of level 2 events |



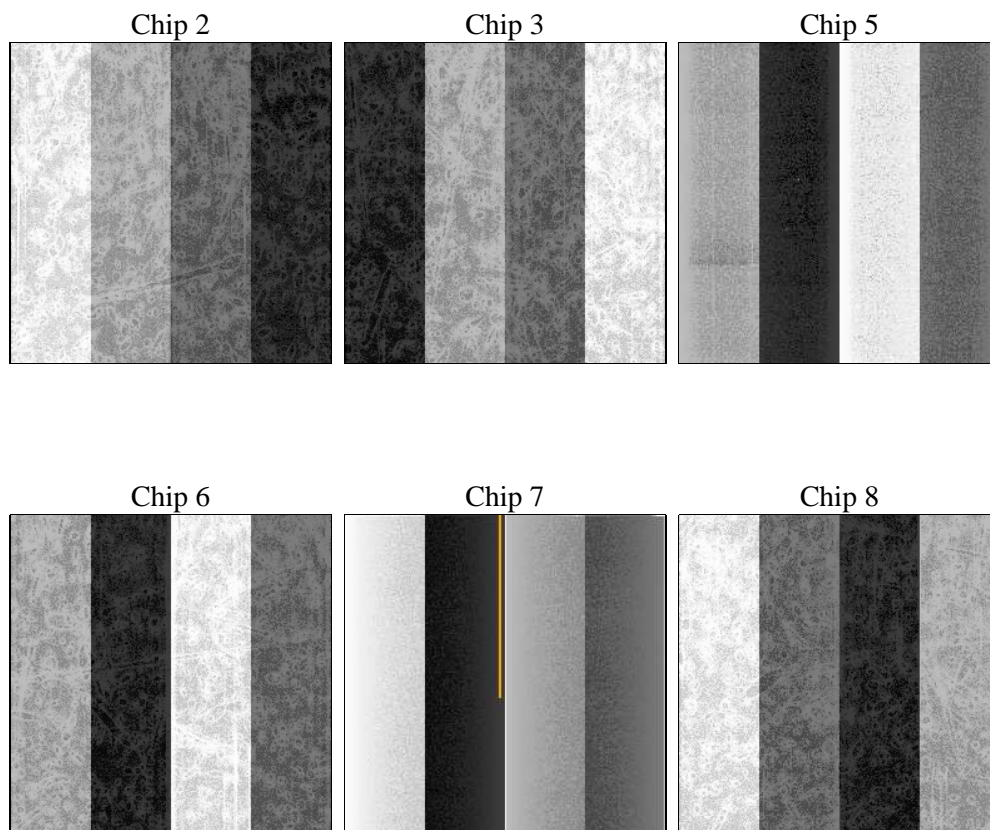
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 4840.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 4591.9999828935 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime2 | 4591.9999828935 | Sum of GTIs [s] |
| date | 2012-03-17T15:52:02 | Date and time of file creation | ontime3 | 4591.9999828935 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 4591.9999828935 | Sum of GTIs [s] |
| | | | ontime6 | 4591.9999828935 | Sum of GTIs [s] |
| | | | ontime7 | 4591.9999828935 | Sum of GTIs [s] |
| | | | ontime8 | 4588.7590225041 | Sum of GTIs [s] |
| | | | l1events | 269740 | Number of level 1 events |

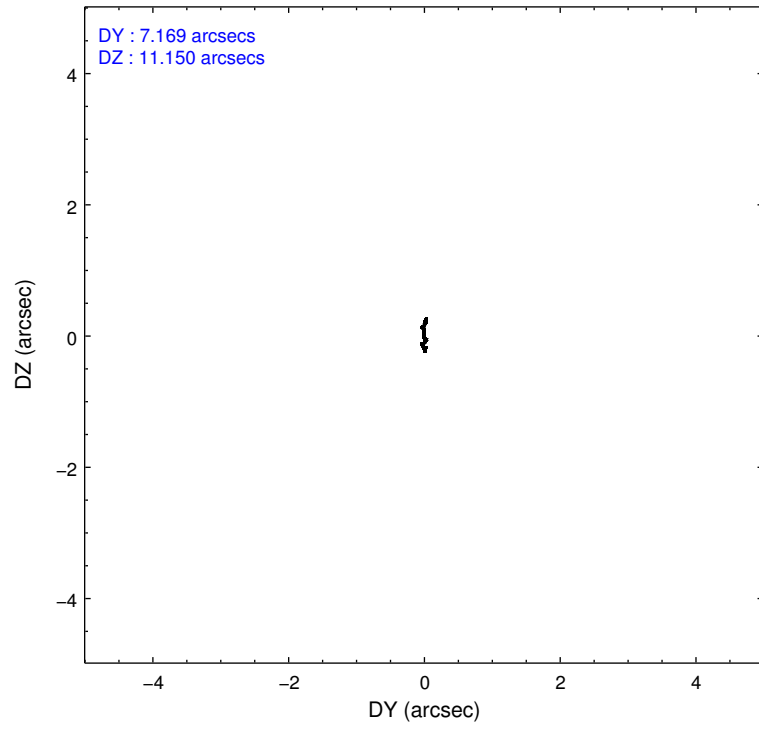
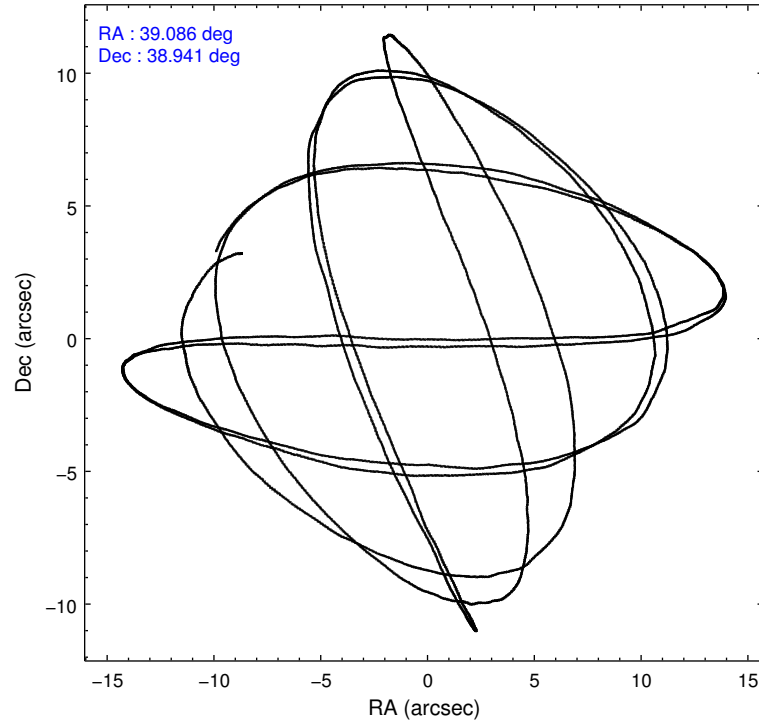
2.1.4 Events

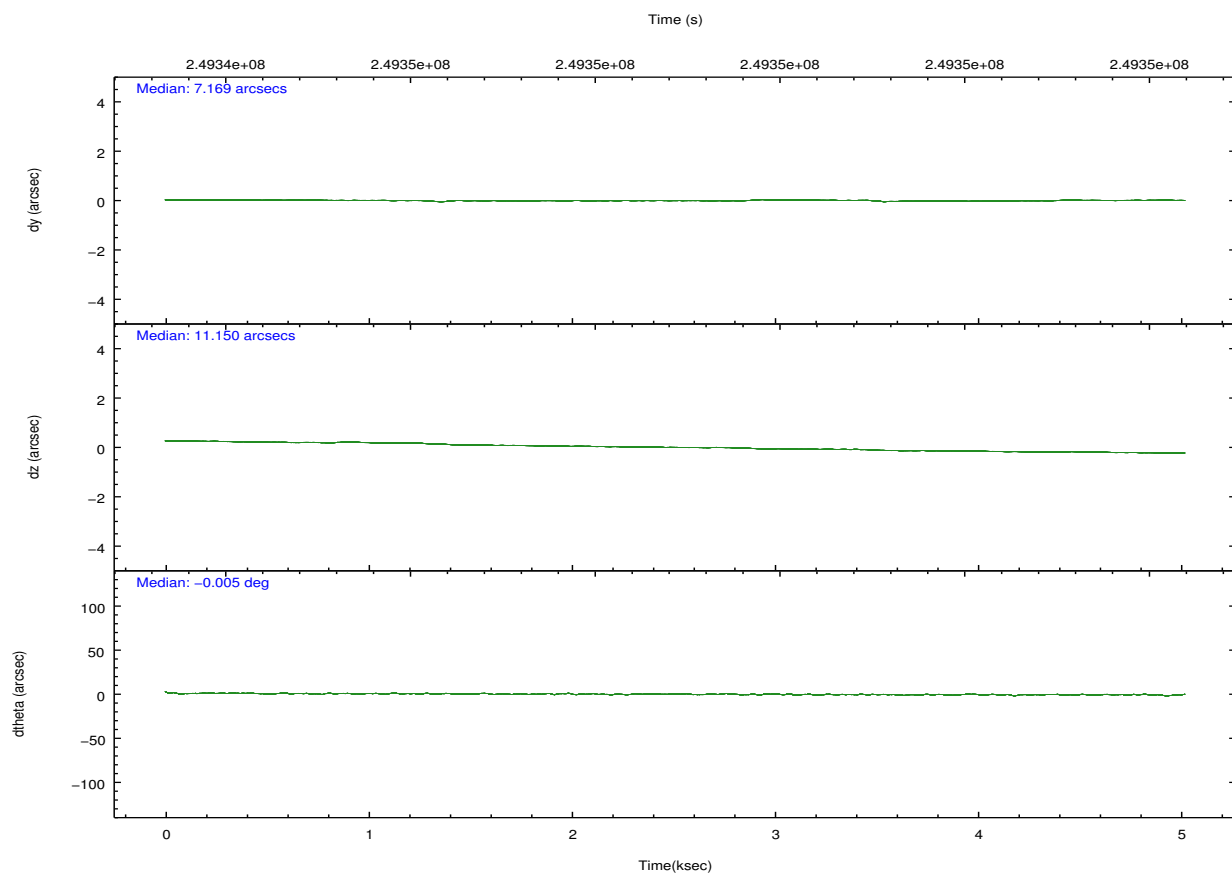
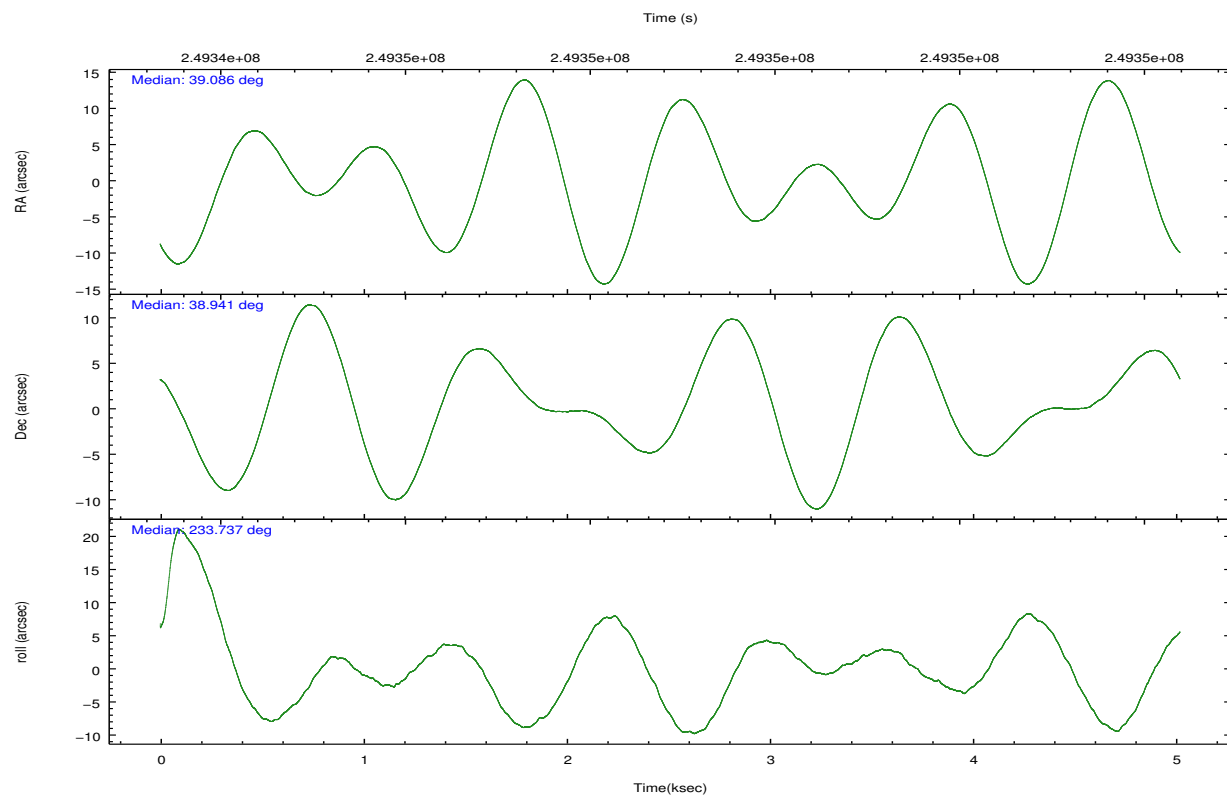
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 37209 | 36562 | 58367 | 37415 | 50330 | 49857 | grade 0 events | 2004 | 2002 | 3484 | 1871 | 1926 | 3174 |
| rejected events | 32761 | 32180 | 30884 | 32875 | 29283 | 40223 | | 5% | 5% | 5% | 5% | 3% | 6% |
| rejected % | 88% | 88% | 52% | 87% | 58% | 80% | grade 1 events | 21 | 19 | 122 | 22 | 46 | 37 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 911 | 851 | 8222 | 960 | 4276 | 2091 |
| | | | | | | | | 2% | 2% | 14% | 2% | 8% | 4% |
| | | | | | | | grade 3 events | 455 | 400 | 999 | 427 | 1809 | 954 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 1% |
| | | | | | | | grade 4 events | 418 | 393 | 985 | 422 | 1838 | 931 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 1% |
| | | | | | | | grade 5 events | 1455 | 1689 | 4322 | 1741 | 4850 | 2215 |
| | | | | | | | | 3% | 4% | 7% | 4% | 9% | 4% |
| | | | | | | | grade 6 events | 669 | 741 | 13839 | 865 | 11228 | 2491 |
| | | | | | | | | 1% | 2% | 23% | 2% | 22% | 4% |
| | | | | | | | grade 7 events | 31276 | 30467 | 26394 | 31107 | 24357 | 37964 |
| | | | | | | | | 84% | 83% | 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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 39.089348 | 39.0859933718618 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 38.968043 | 38.94091851499359 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 233.585400 | 233.7441417196414 | [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 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 249345104.184000 | 249344428.02178 | | | |
| Observation start date | 2005-11-25T22:30:40 | 2005-11-25T22:20:28 | | | |
| [s] Observation end time (MET) | 249349944.184000 | 249350973.15958 | | | |
| Observation end date | 2005-11-25T23:51:20 | 2005-11-26T00:09:33 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



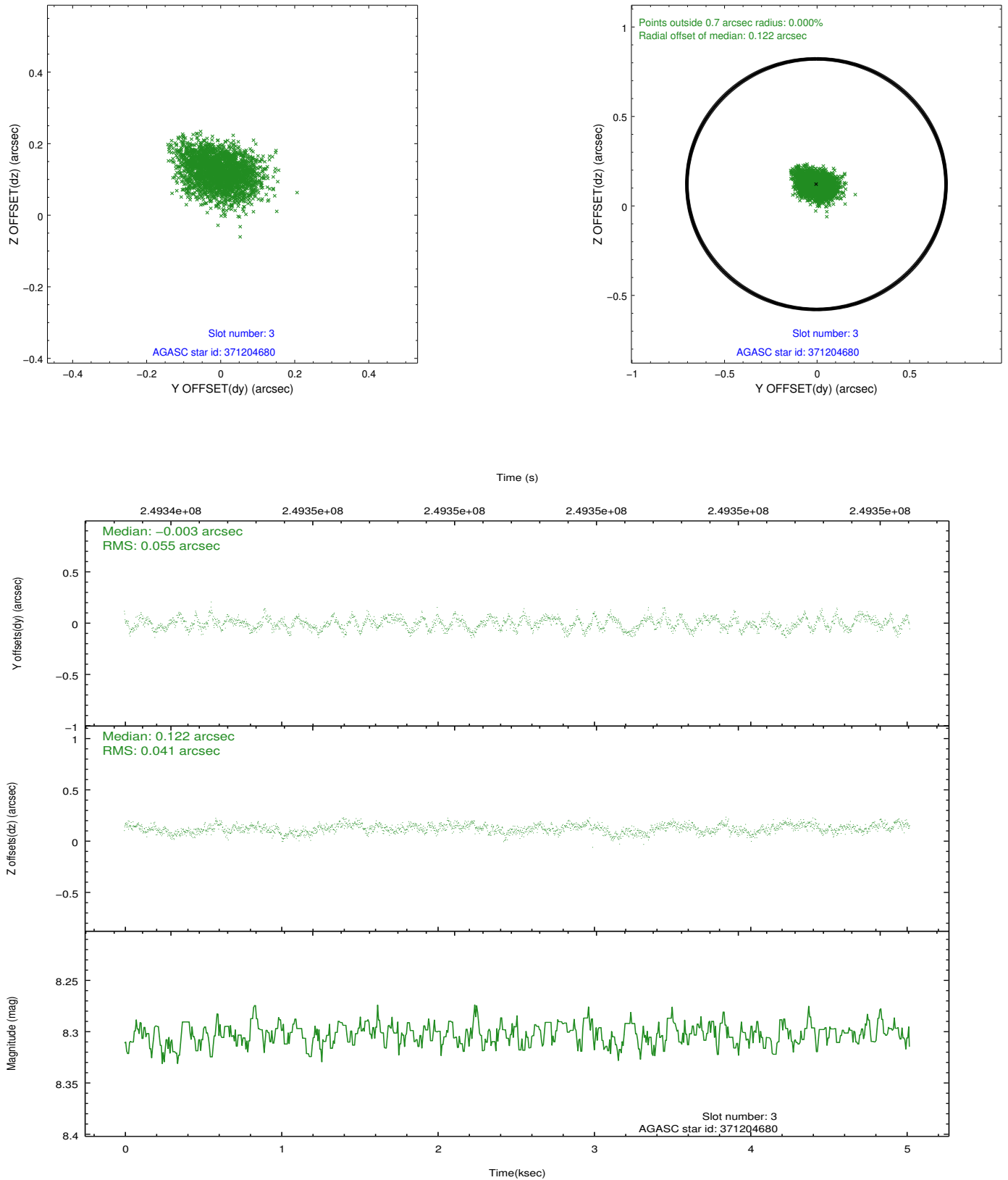


Slot Statistics

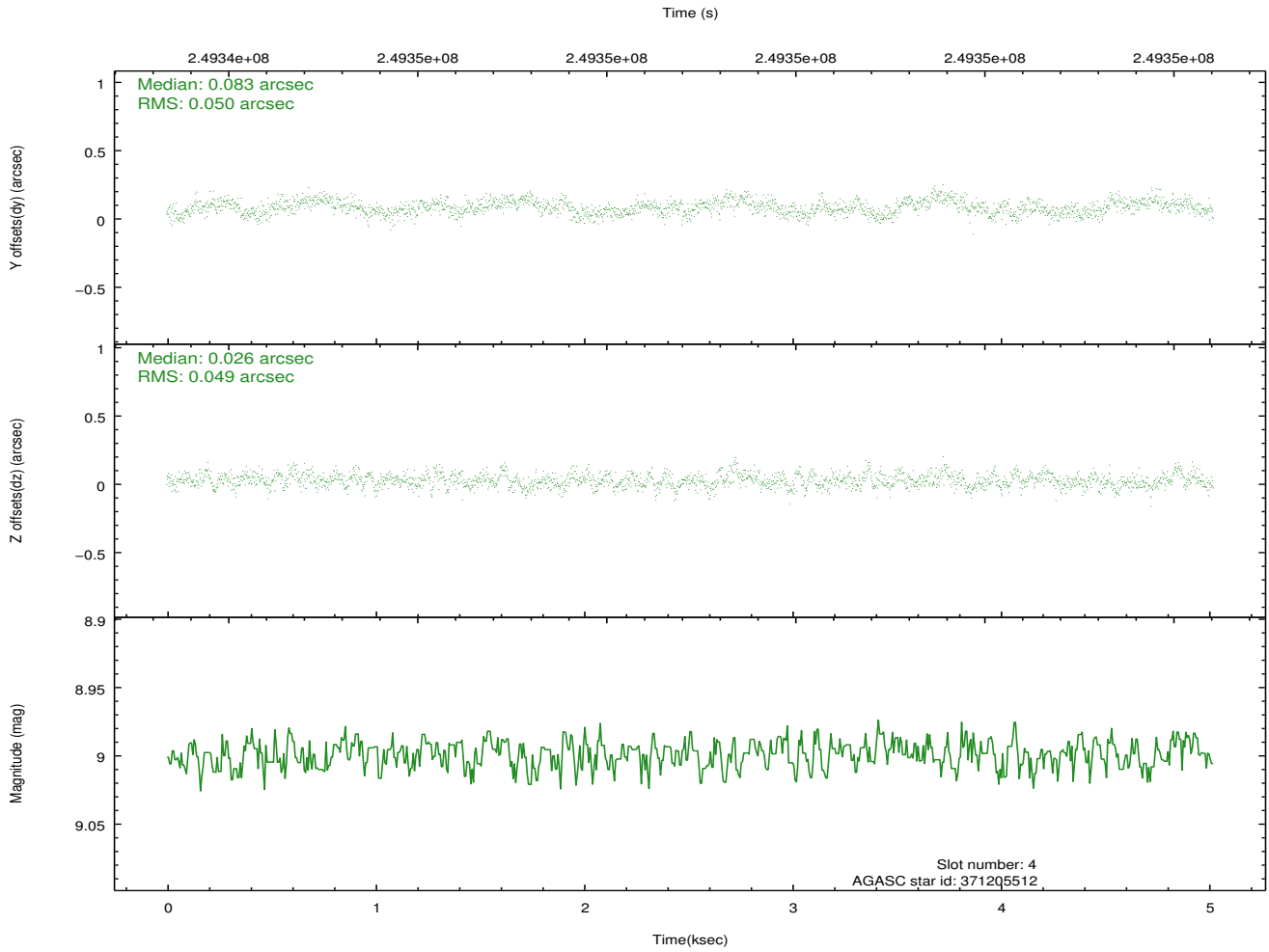
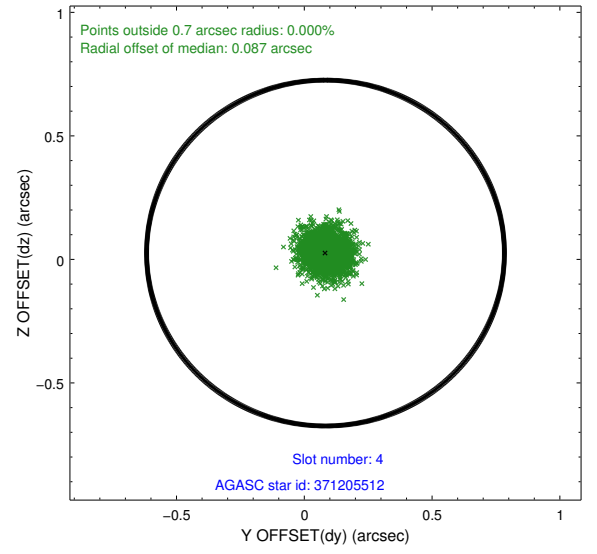
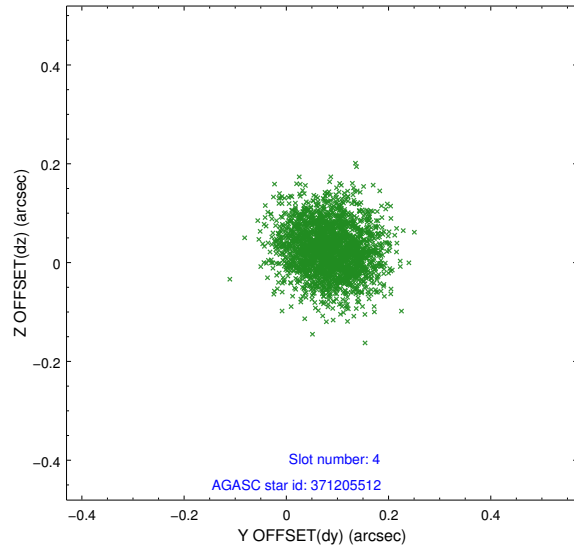
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 1225 | -0.048 | -0.025 | 0.009 | 0.014 | 0.000000 | 0.000000 | -759.94 | -1732.47 |
| 1 | FID | ACIS-S-4 | 7.21 | 1225 | 0.102 | 0.030 | 0.007 | 0.012 | 0.000000 | 0.000000 | 2152.90 | 174.86 |
| 2 | FID | ACIS-S-5 | 7.23 | 1226 | -0.084 | 0.004 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1811.30 | 169.82 |
| 3 | GUIDE | 371204680 | 8.30 | 2450 | -0.003 | 0.122 | 0.074 | 0.119 | 39.715200 | 39.150194 | -1569.75 | 1013.44 |
| 4 | GUIDE | 371205512 | 9.00 | 2451 | 0.083 | 0.026 | 0.074 | 0.119 | 38.822292 | 39.172532 | -150.98 | -1036.27 |
| 5 | GUIDE | 371206192 | 9.30 | 2450 | 0.046 | -0.001 | 0.099 | 0.159 | 39.265479 | 38.799854 | 193.55 | 756.65 |
| 6 | GUIDE | 372905712 | 9.14 | 2448 | 0.020 | 0.012 | 0.099 | 0.162 | 40.054227 | 39.014398 | -1747.98 | 2065.20 |
| 7 | GUIDE | 371215520 | 8.20 | 2450 | -0.146 | -0.164 | 0.074 | 0.116 | 39.565116 | 38.388424 | 878.47 | 2318.03 |

2.4 Star Slots

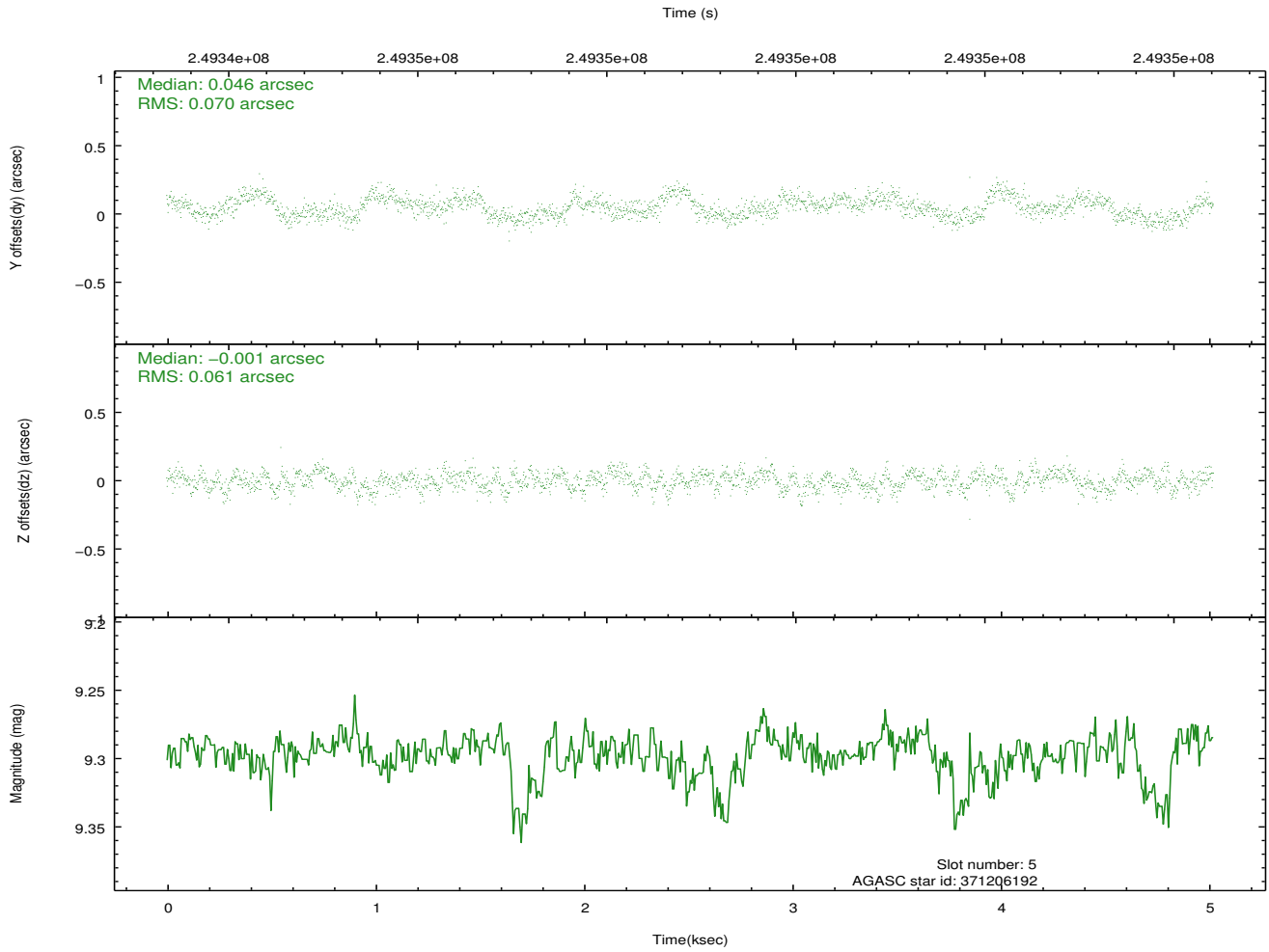
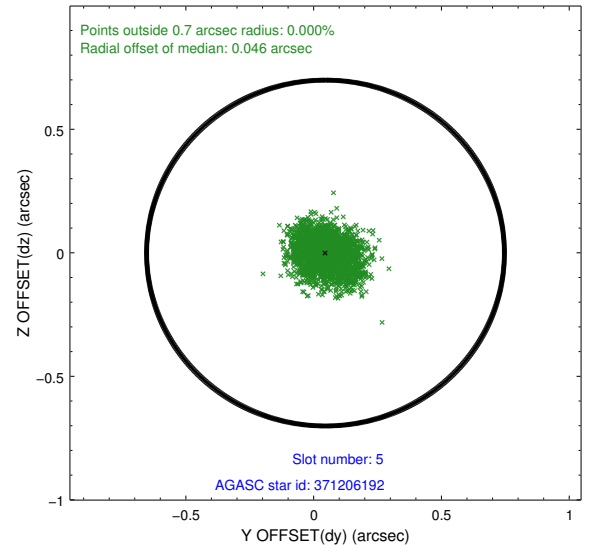
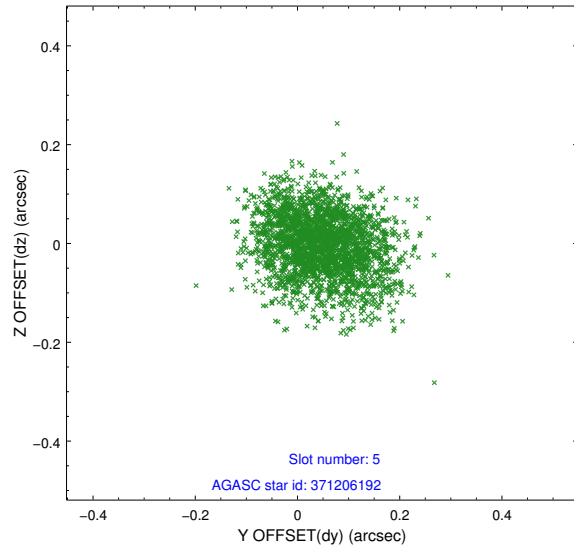
2.4.1 Slot 3



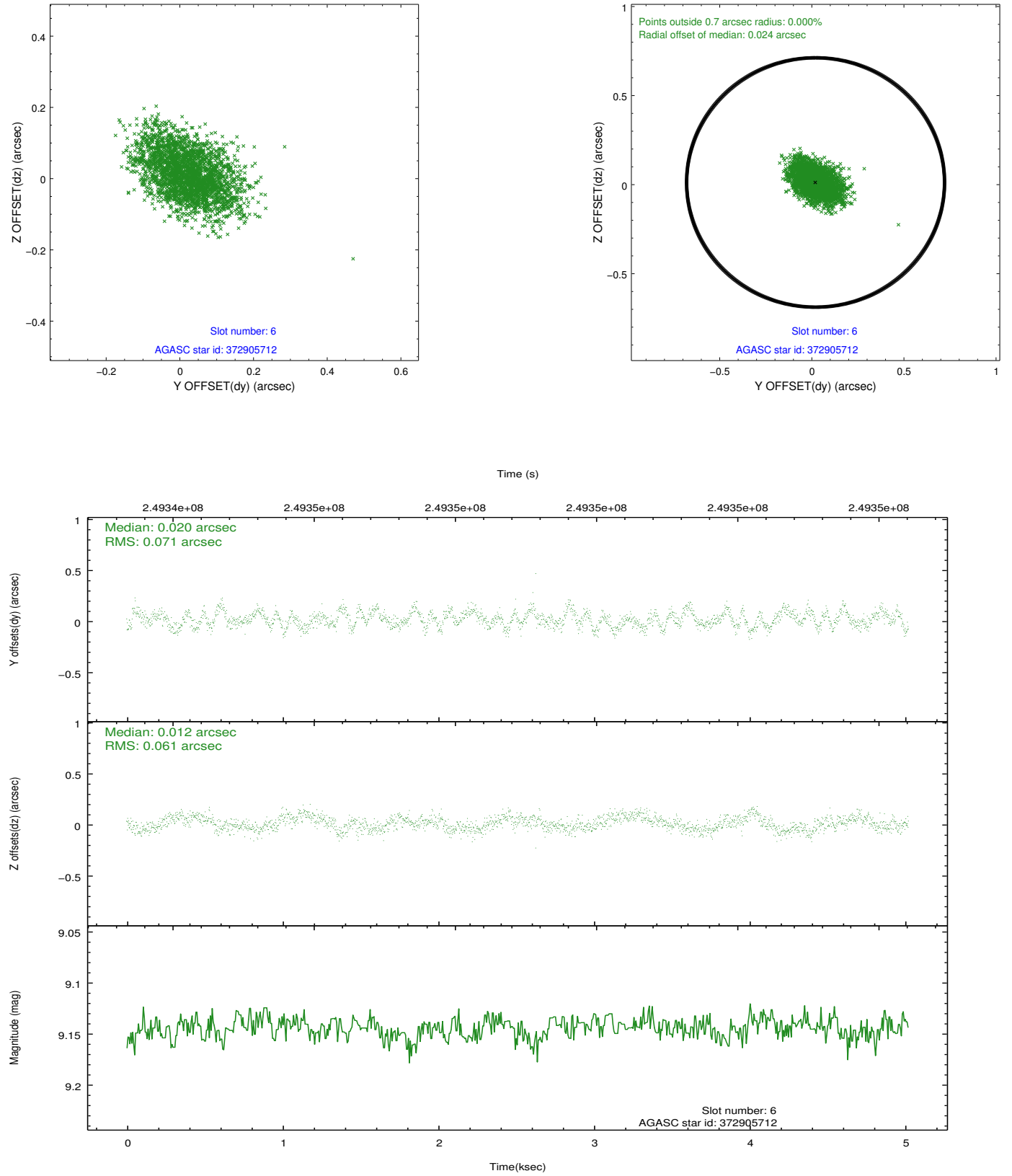
2.4.2 Slot 4



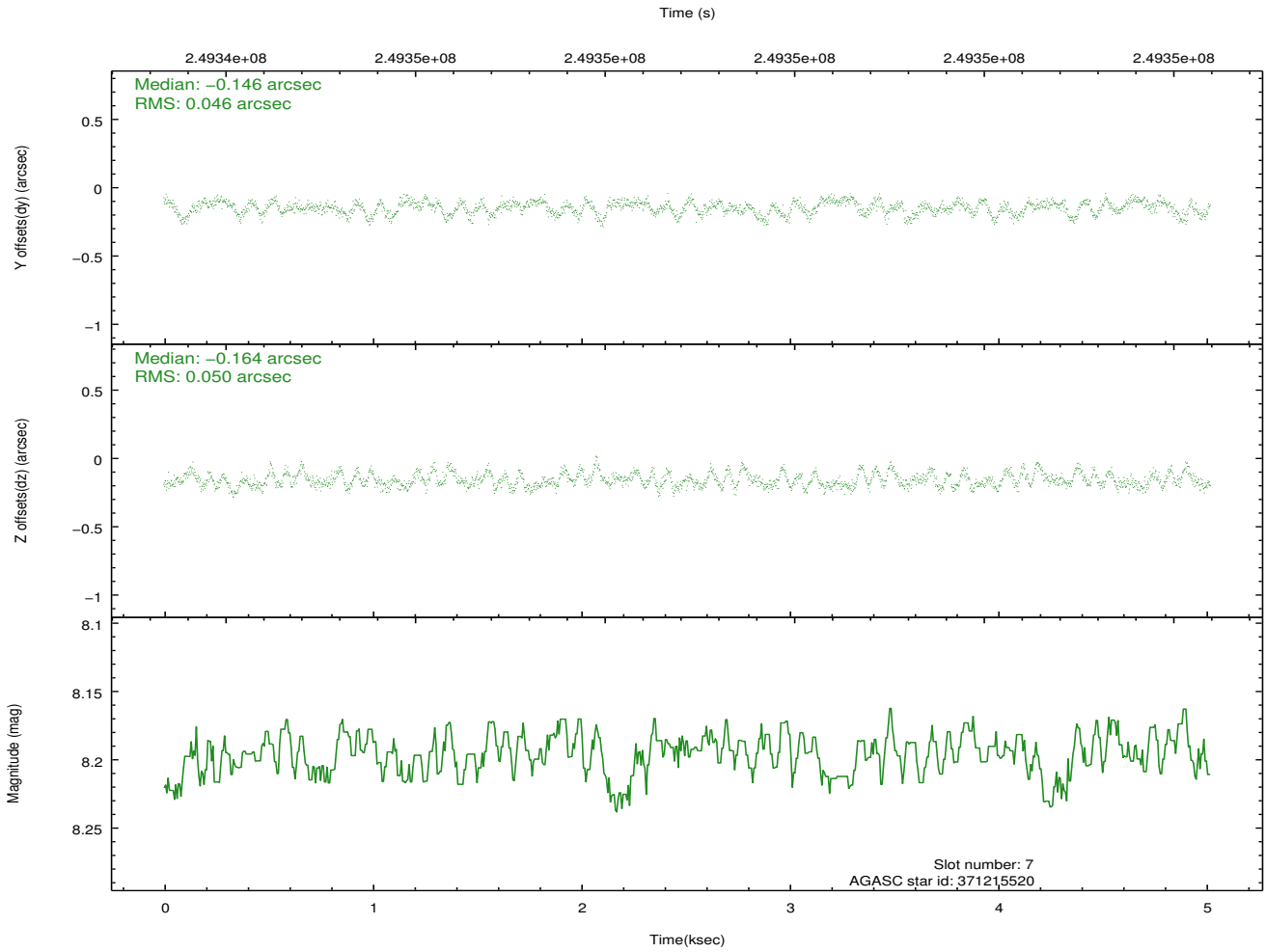
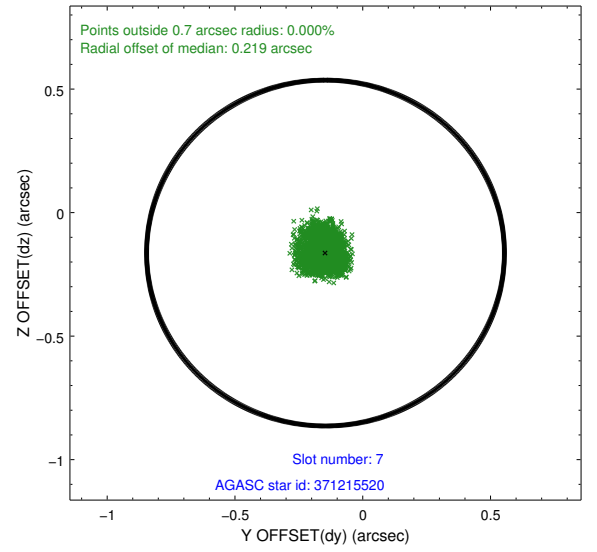
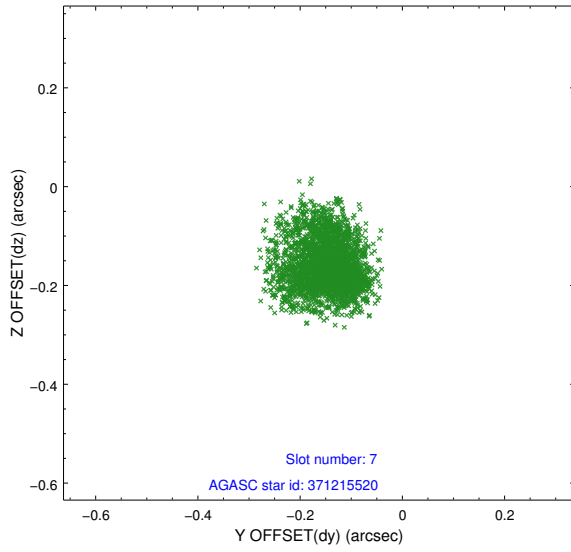
2.4.3 Slot 5



2.4.4 Slot 6

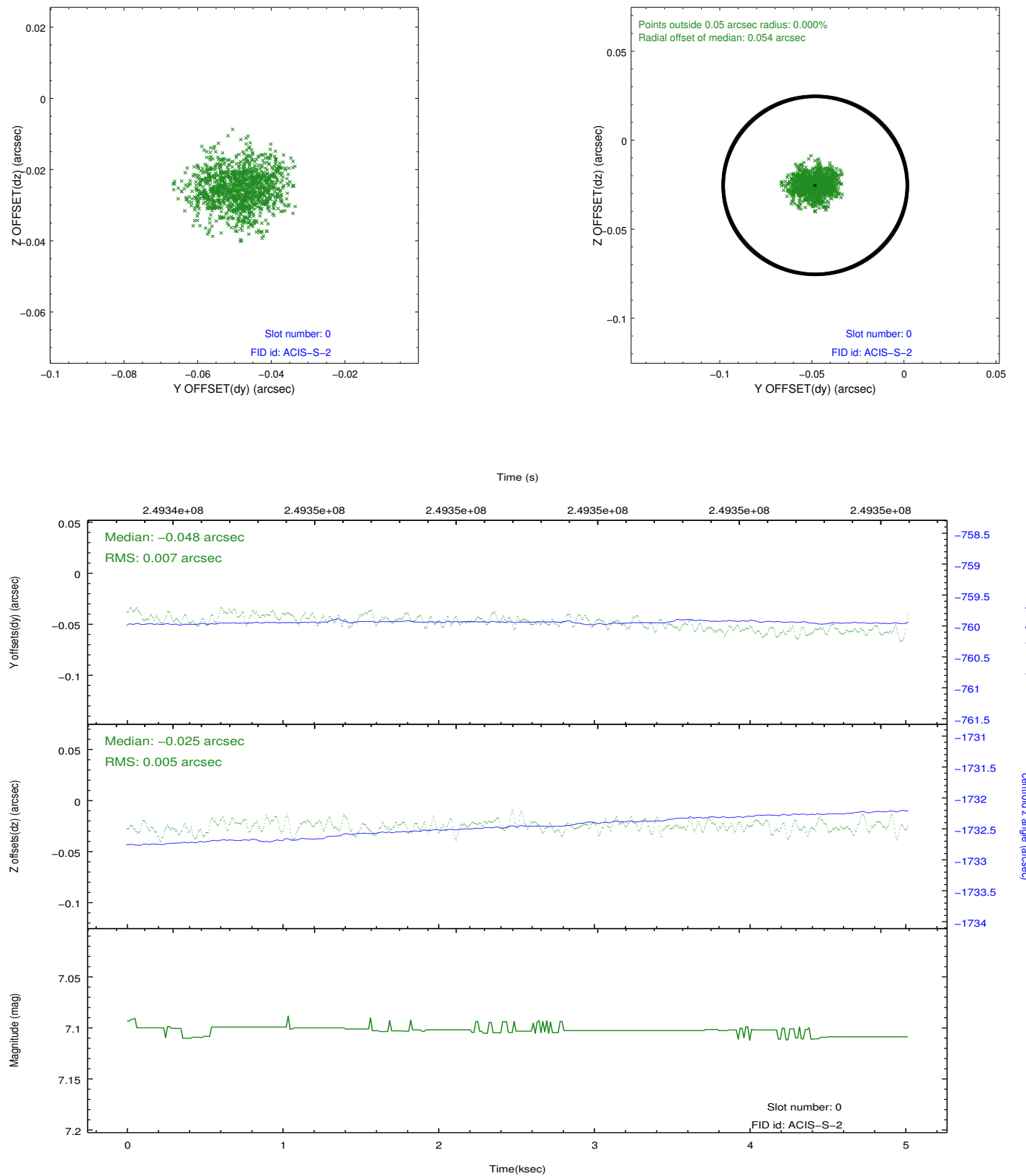


2.4.5 Slot 7

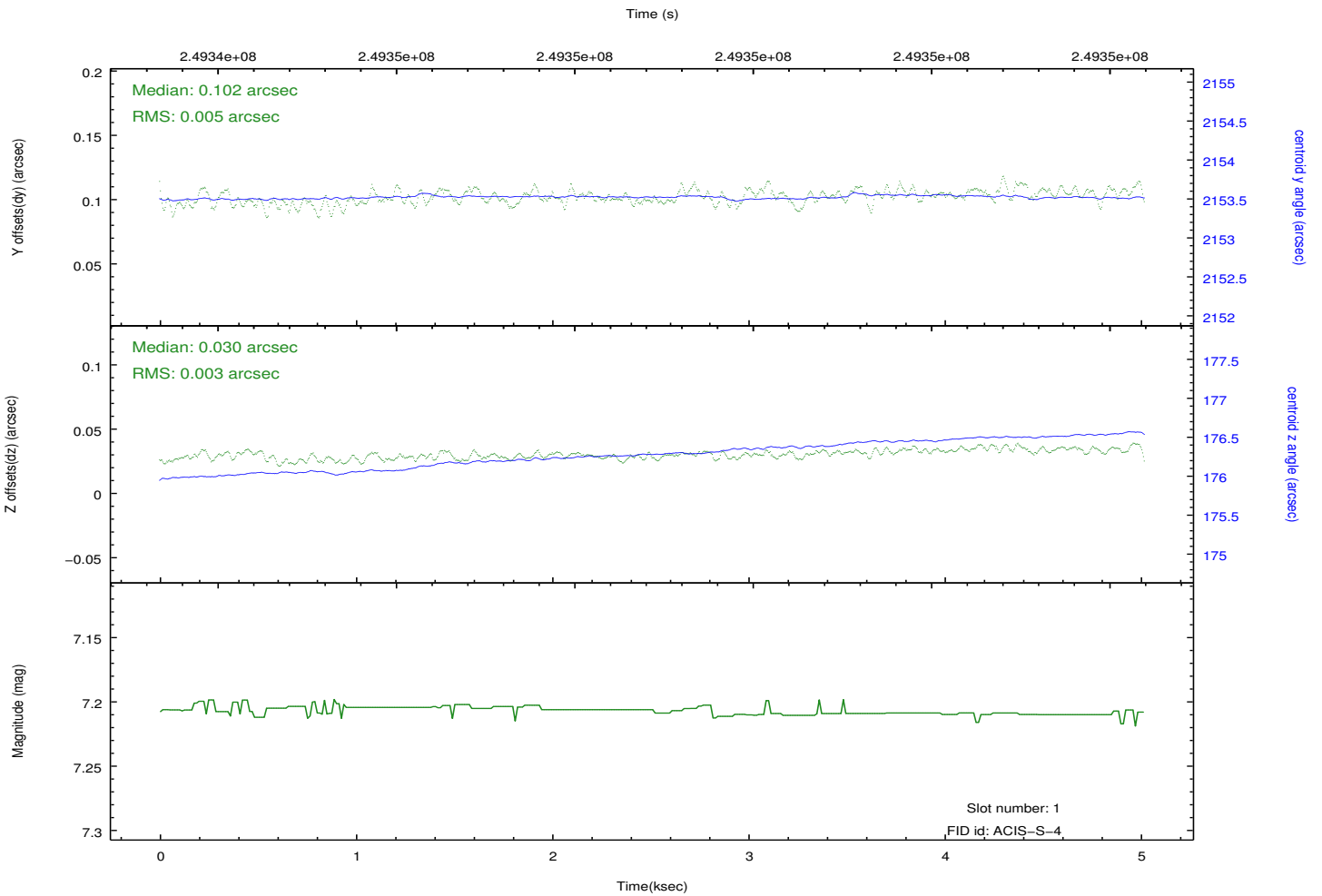
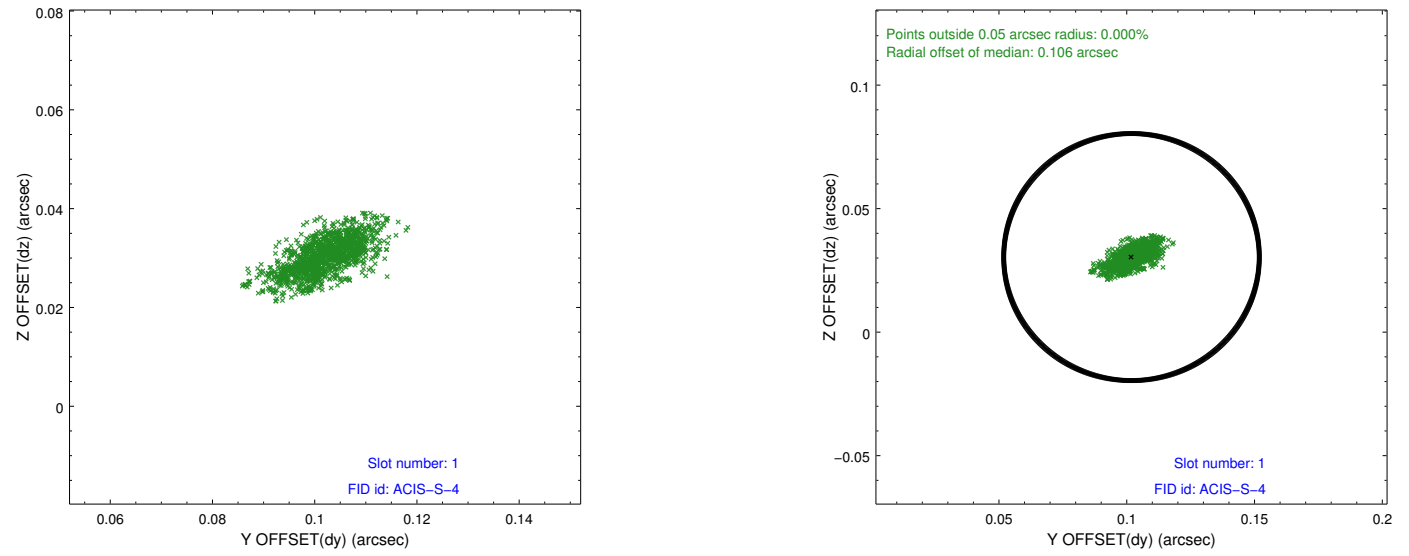


2.5 FID Slots

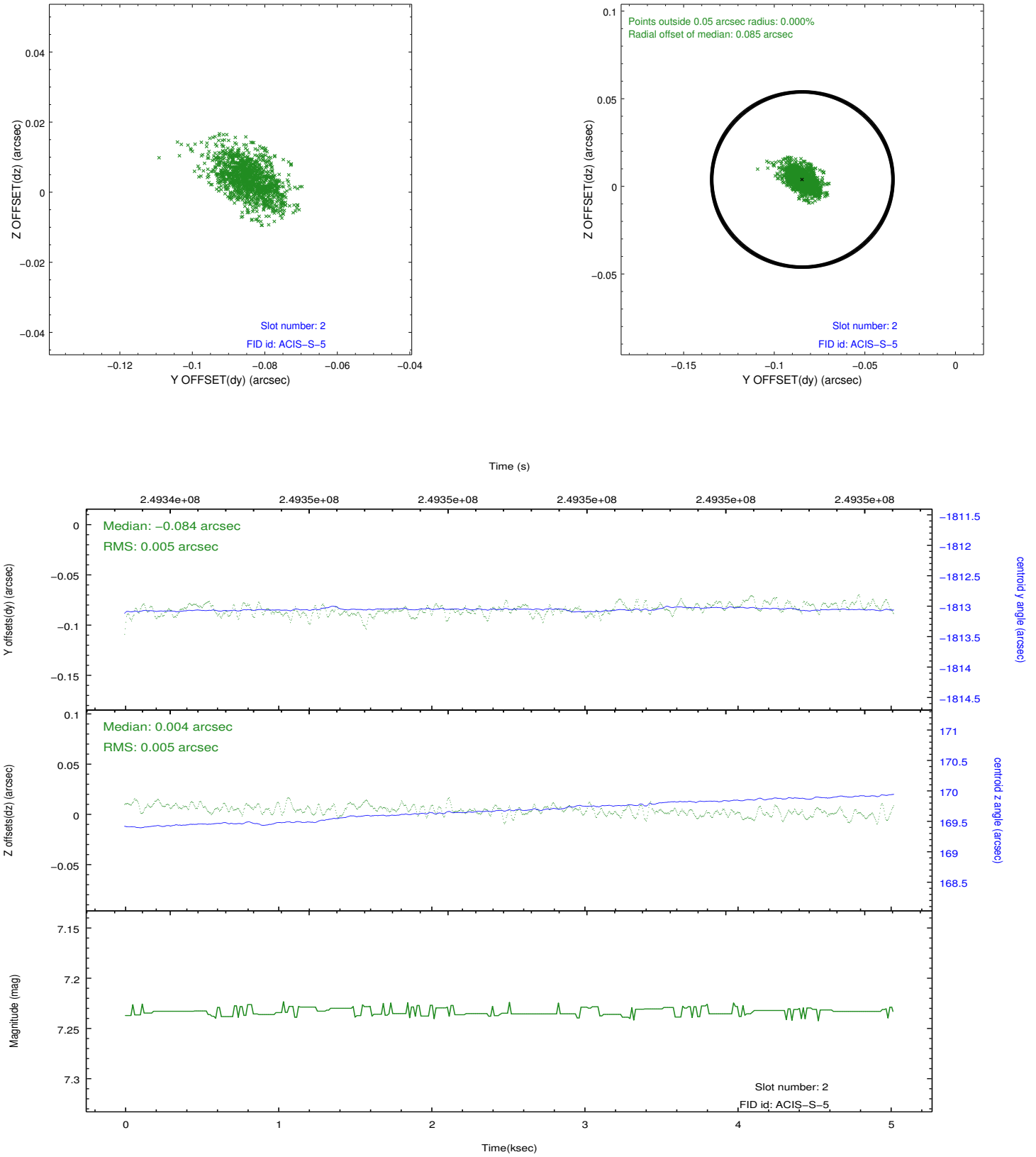
2.5.1 Slot 0



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) | 2012.03.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.591999 |

A.2 Comments