

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 4216 - L2 Version 001
Chandra X-Ray Center

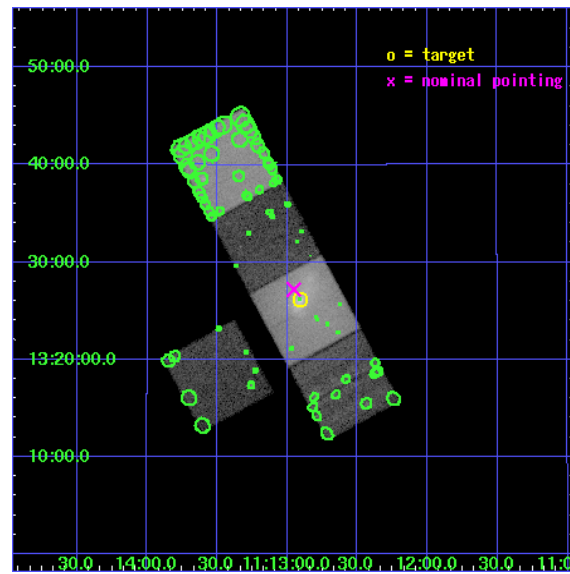
L2 Processing Date : Jun 30 2006

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 |
| 3 | Point Sources | 17 |
| A | Summary | 18 |
| A.1 | Status | 18 |
| A.2 | Comments | 18 |

1 Front

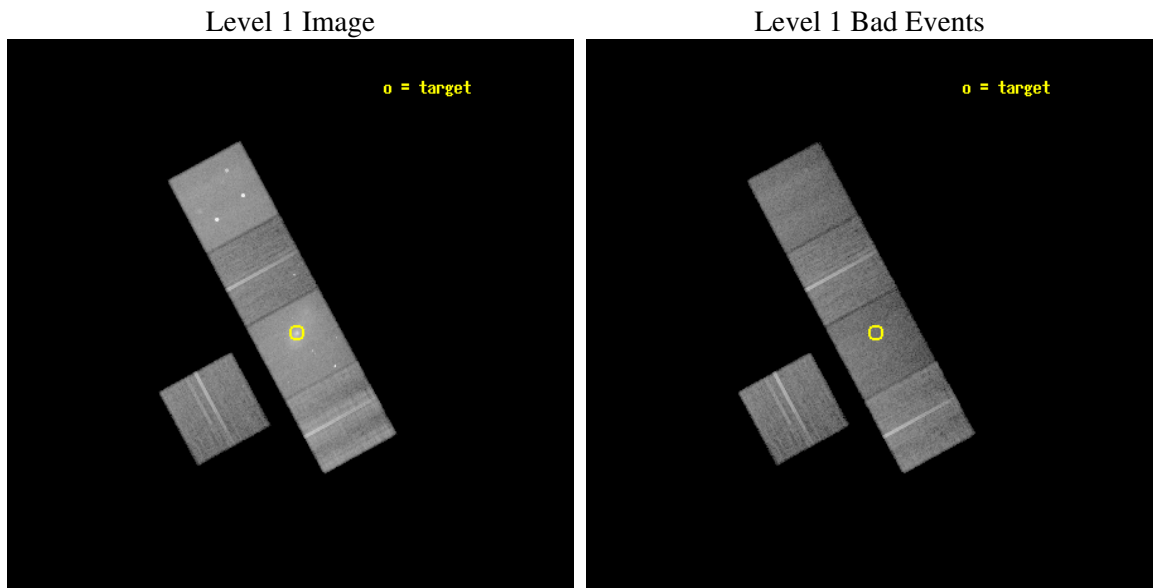
| | |
|----------|---|
| seq_num | 800372 |
| obs_id | 4216 |
| title | THE REMARKABLE ARC IN ABELL 1201 - PROBING THE MASS PROFILE OF CLUSTERS DOWN TO 10KPC |
| observer | DR ALASTAIR EDGE |
| object | ABELL 1201 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 168.226667 |
| dec_targ | 13.436111 |
| ra_nom | 168.23834947769 |
| dec_nom | 13.453467362251 |
| roll_nom | 61.574356389433 |
| revision | 2 |
| ontime | 40175.999922752 |
| livetime | 39651.070906621 |
| ontime3 | 40169.71800229 |
| ontime5 | 40175.999922752 |
| ontime6 | 40175.999922752 |
| ontime7 | 40175.999922752 |
| ontime8 | 40172.858932585 |
| l2events | 395080 |



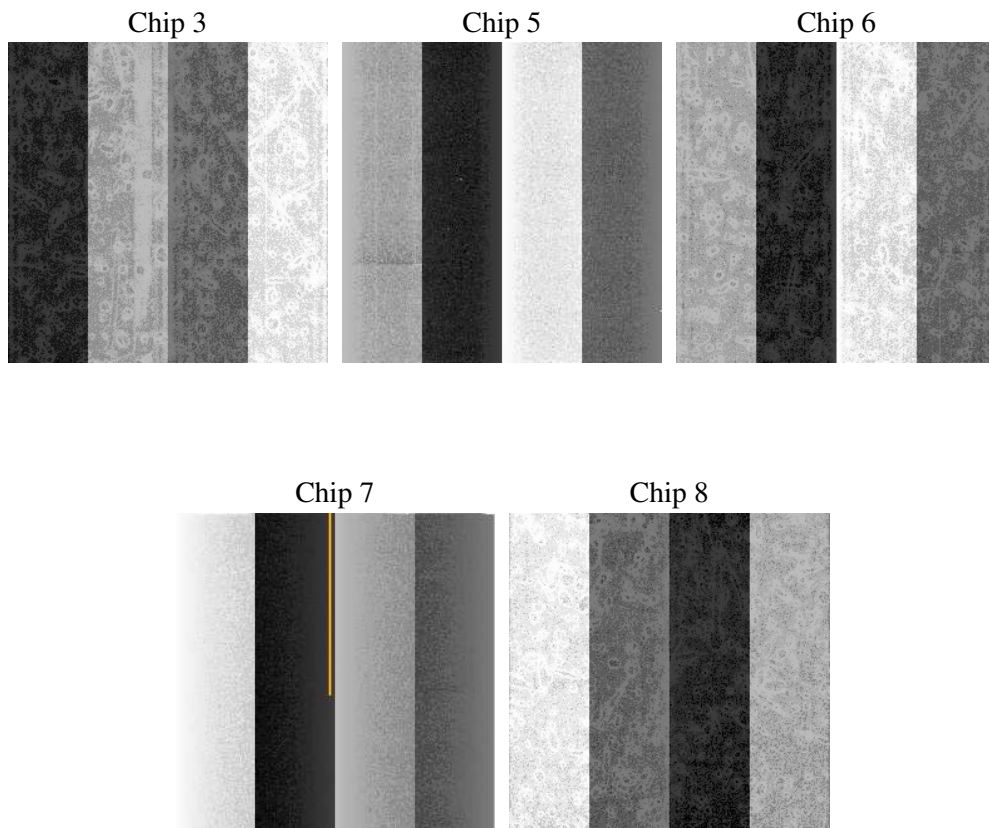
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 5 |
| ascdsver | 7.6.8 |
| caldbver | 3.2.2 |
| date | 2006-06-30T09:13:15 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 39993.318000 |
| ontime | 41568.007636636 |
| ontime3 | 41561.725696295 |
| ontime5 | 41568.007616758 |
| ontime6 | 41568.007616758 |
| ontime7 | 41568.007636636 |
| ontime8 | 41564.86662659 |
| l1events | 1162743 |

2.1.4 Events

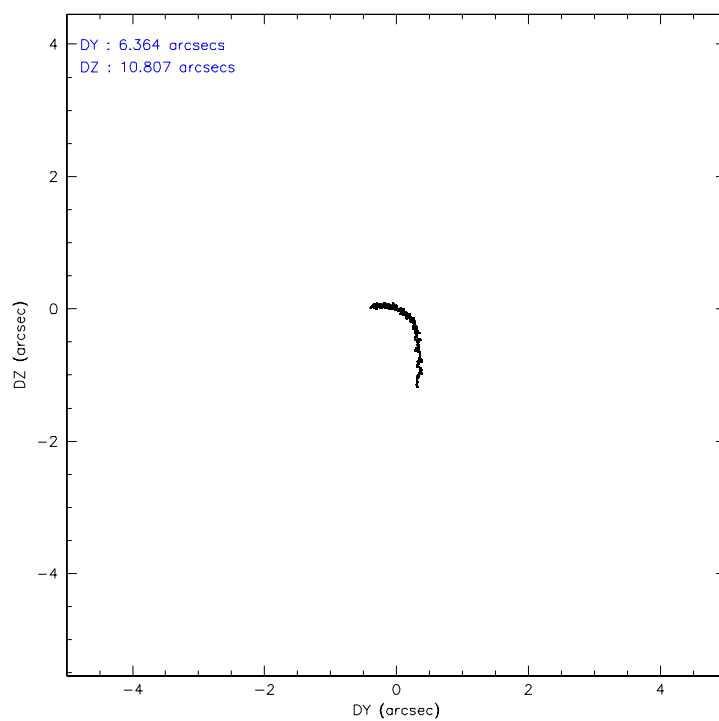
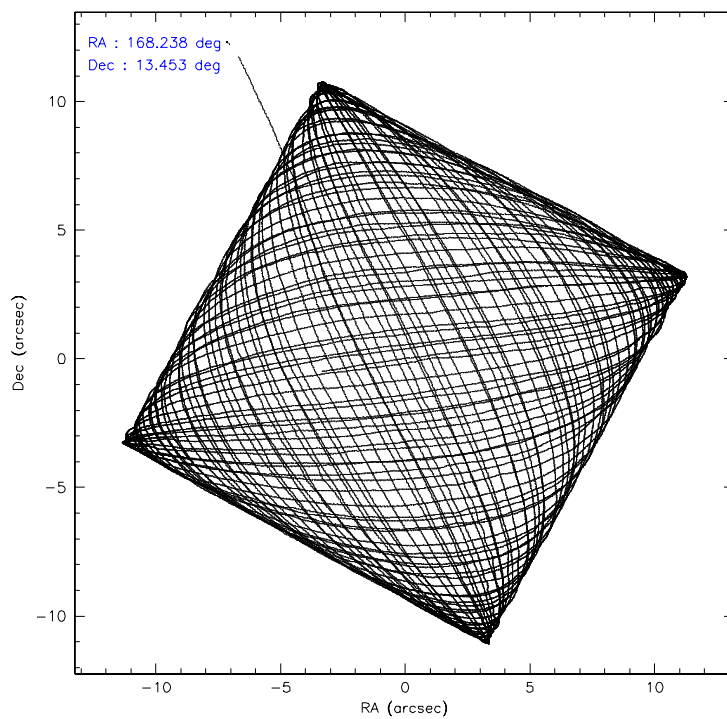
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 165353 | 292797 | 175395 | 280128 | 249070 |
| rejected events | 144916 | 122642 | 148575 | 108083 | 163097 |
| rejected % | 87% | 41% | 84% | 38% | 65% |

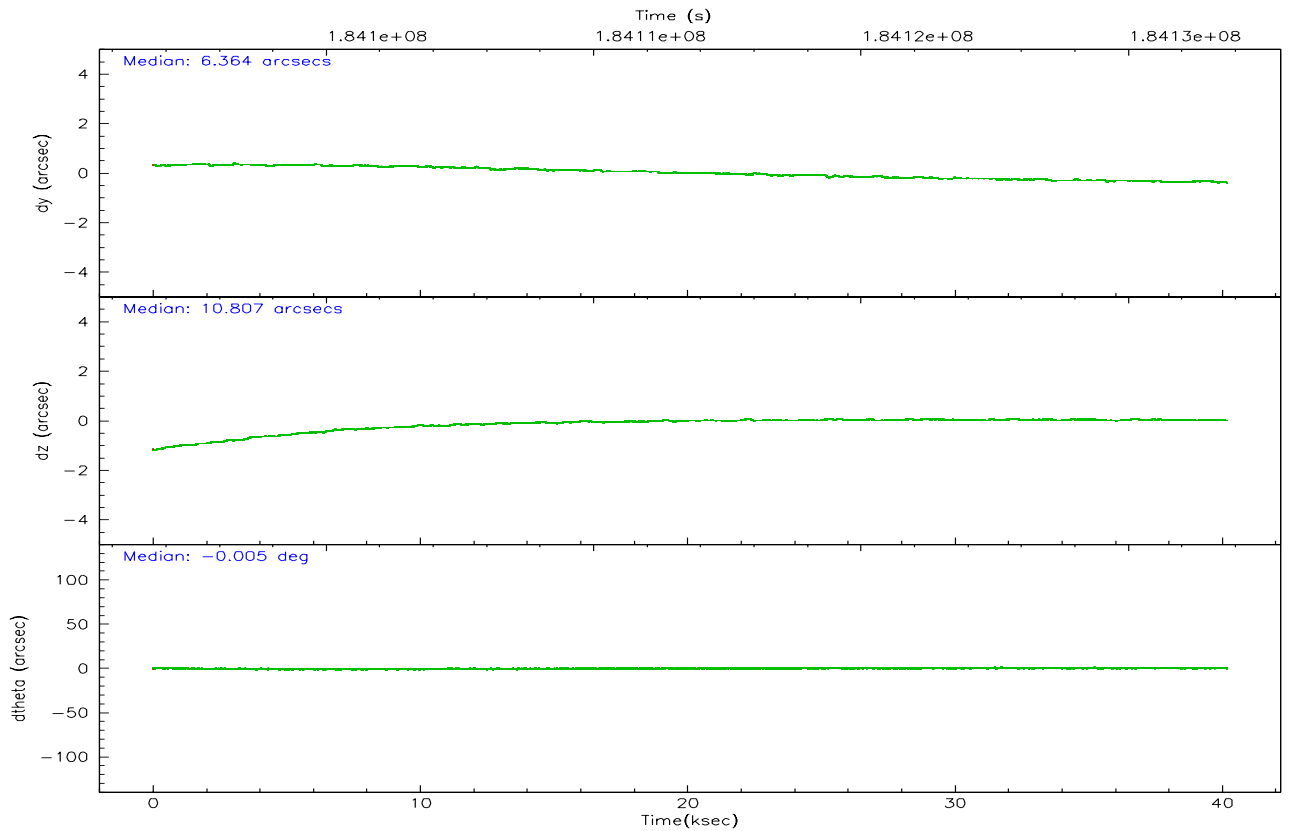
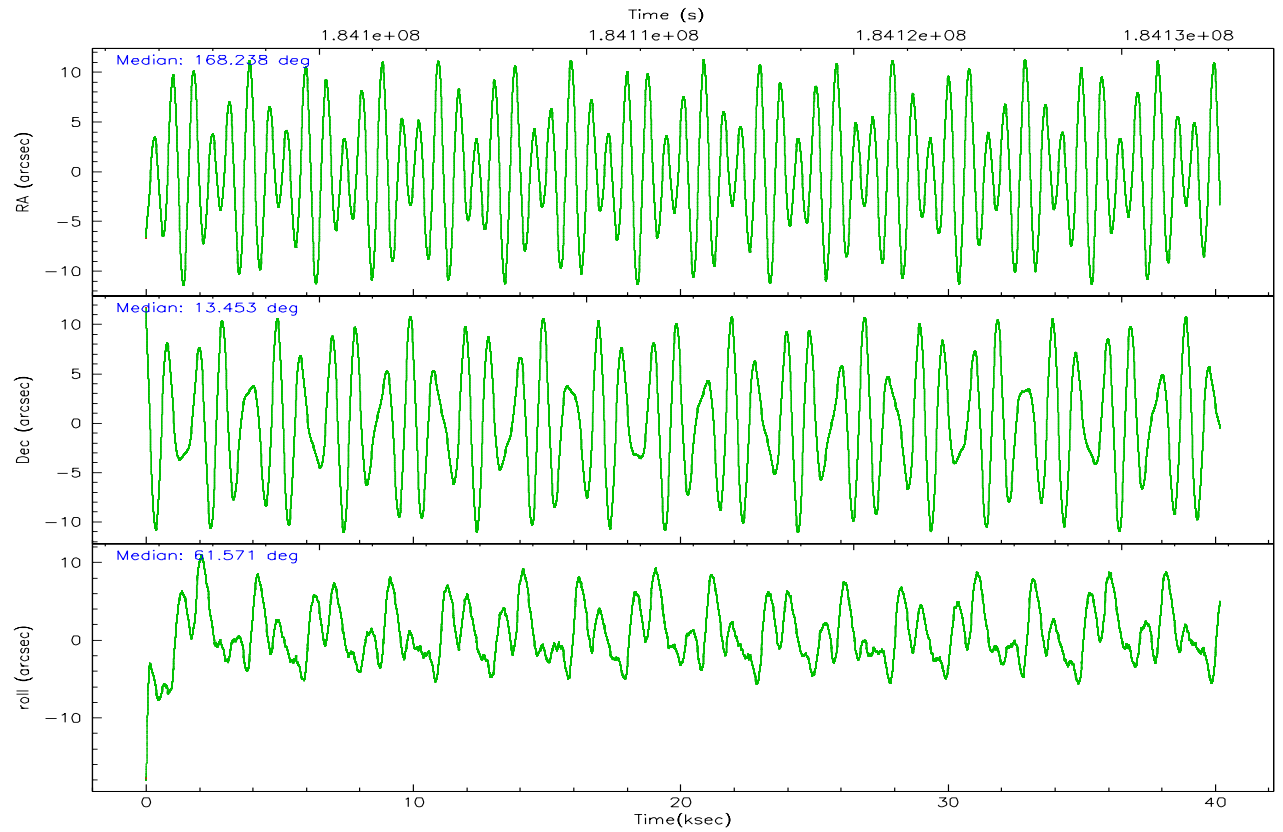
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|-------|--------|
| grade 0 events | 9023 | 25608 | 13445 | 23780 | 31091 |
| | 5% | 8% | 7% | 8% | 12% |
| grade 1 events | 74 | 214 | 85 | 134 | 187 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 4101 | 54222 | 5057 | 43702 | 15401 |
| | 2% | 18% | 2% | 15% | 6% |
| grade 3 events | 2105 | 5464 | 2205 | 12816 | 11338 |
| | 1% | 1% | 1% | 4% | 4% |
| grade 4 events | 2020 | 5489 | 2237 | 12586 | 10535 |
| | 1% | 1% | 1% | 4% | 4% |
| grade 5 events | 6164 | 12233 | 6271 | 14425 | 9205 |
| | 3% | 4% | 3% | 5% | 3% |
| grade 6 events | 3788 | 83282 | 4544 | 81779 | 19412 |
| | 2% | 28% | 2% | 29% | 7% |
| grade 7 events | 138078 | 106285 | 141551 | 90906 | 151901 |
| | 83% | 36% | 80% | 32% | 60% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-35678 | ACIS-35678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 168.239501 | 168.2383494776851 | Alternating exposures requested | N | N |
| Pointing Dec | 13.426271 | 13.45346736225143 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 61.417472 | 61.57435638943292 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 184093705.184000 | 184092012.84691 | | | |
| Observation start date | 2003-11-01T17:07:21 | 2003-11-01T16:40:12 | | | |
| Observation end time | 184133698.184000 | 184134012.73622 | | | |
| Observation end date | 2003-11-02T04:13:54 | 2003-11-02T04:20:12 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



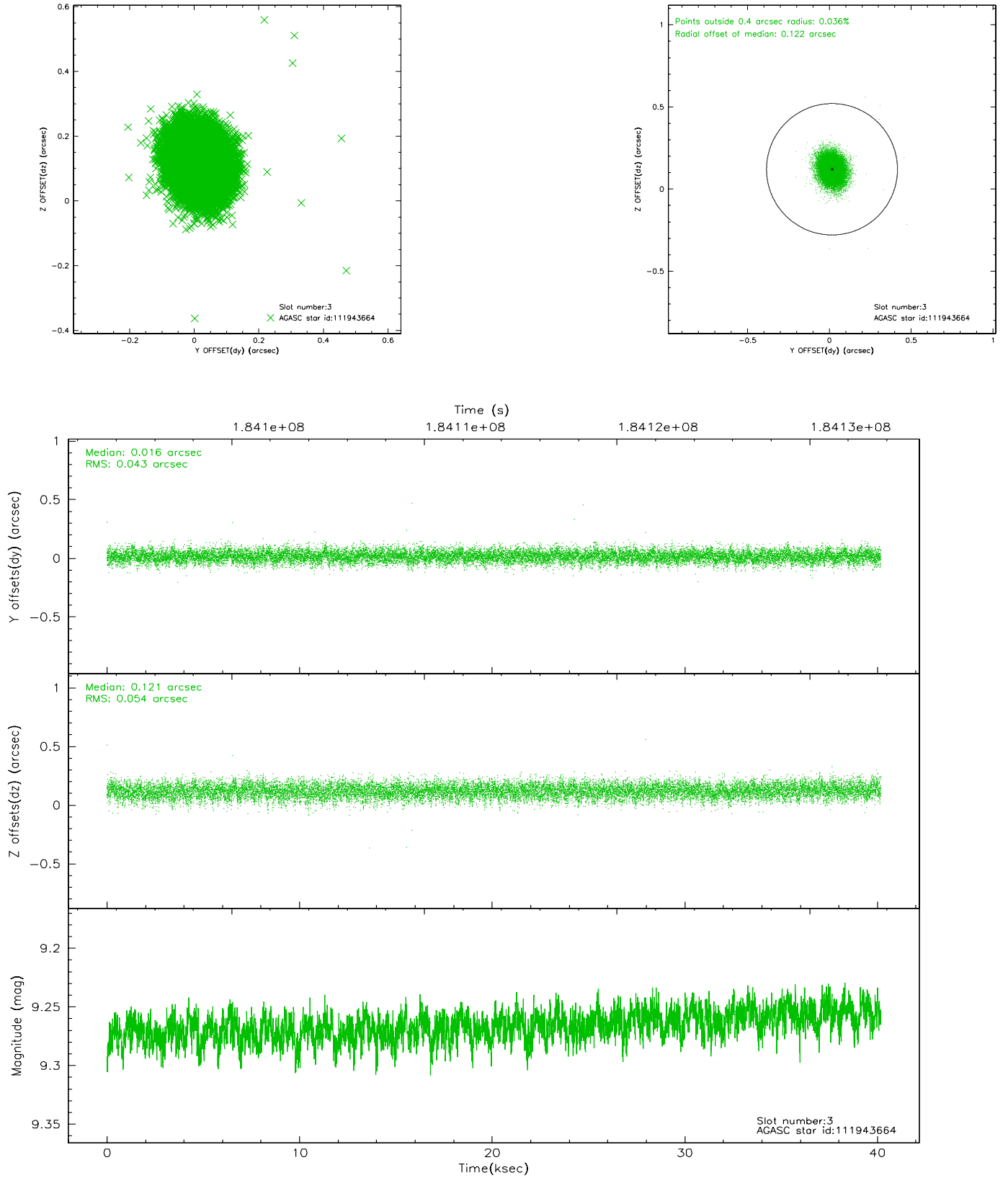


Slot Statistics

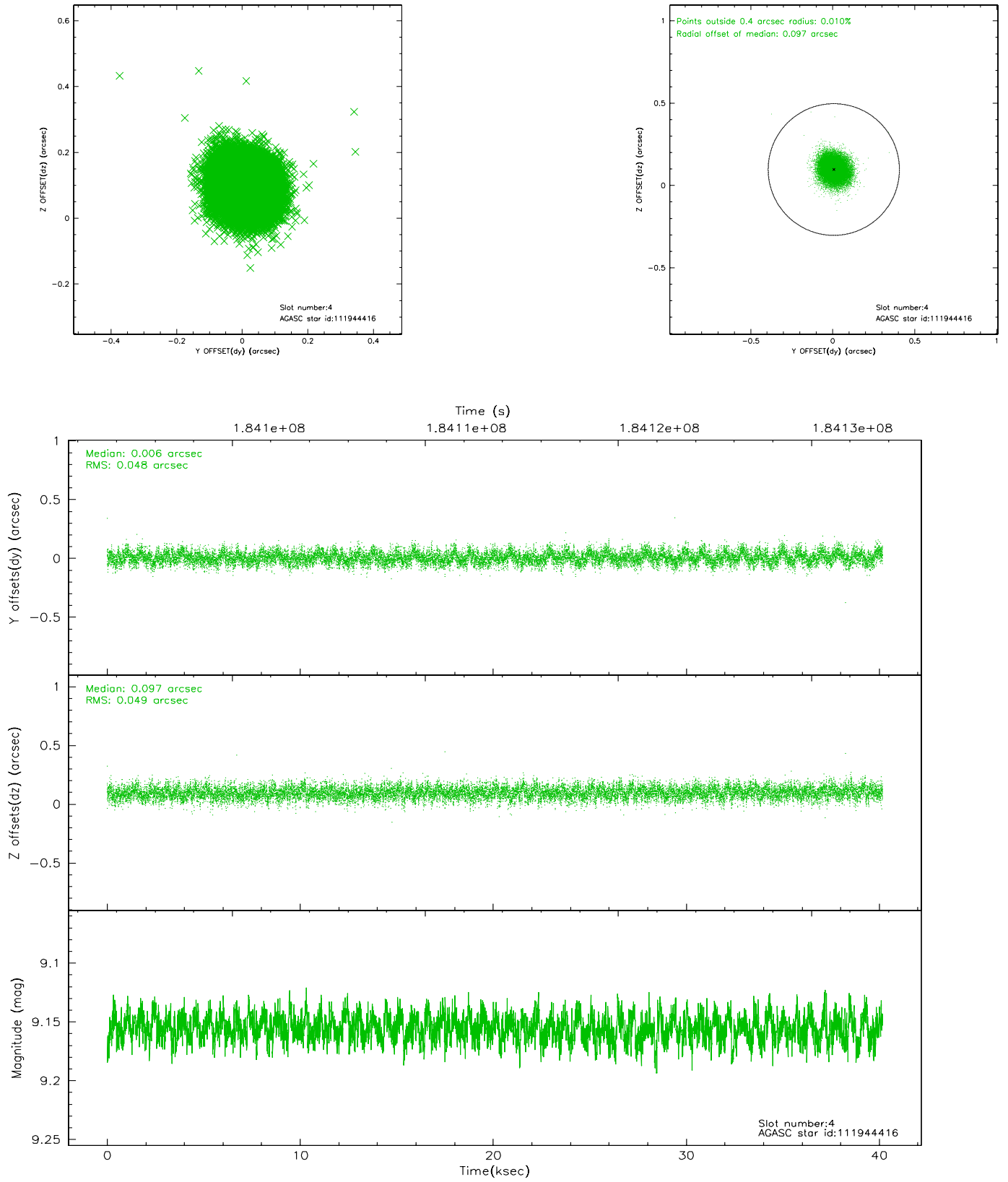
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 9801 | -0.047 | 0.010 | 0.008 | 0.014 | 0.000000 | 0.000000 | -759.13 | -1731.92 |
| 1 | FID | ACIS-S-4 | 7.20 | 9800 | 0.022 | 0.020 | 0.007 | 0.013 | 0.000000 | 0.000000 | 2154.18 | 176.60 |
| 2 | FID | ACIS-S-5 | 7.23 | 9799 | -0.006 | -0.021 | 0.008 | 0.017 | 0.000000 | 0.000000 | -1811.94 | 170.19 |
| 3 | GUIDE | 111943664 | 9.27 | 19594 | 0.016 | 0.121 | 0.073 | 0.119 | 168.455104 | 13.231647 | -253.56 | -998.24 |
| 4 | GUIDE | 111944416 | 9.16 | 19594 | 0.006 | 0.097 | 0.073 | 0.116 | 168.281221 | 13.248301 | -492.73 | -434.72 |
| 5 | GUIDE | 111944480 | 8.62 | 19595 | 0.130 | -0.014 | 0.059 | 0.095 | 167.667829 | 13.119228 | -1927.66 | 1232.71 |
| 6 | GUIDE | 111945272 | 8.32 | 19599 | -0.052 | -0.080 | 0.070 | 0.117 | 167.422036 | 13.273538 | -1849.43 | 2254.50 |
| 7 | GUIDE | 111937776 | 8.68 | 19599 | -0.109 | -0.123 | 0.073 | 0.119 | 168.023116 | 14.306189 | 2420.37 | 2178.63 |

2.4 Star Slots

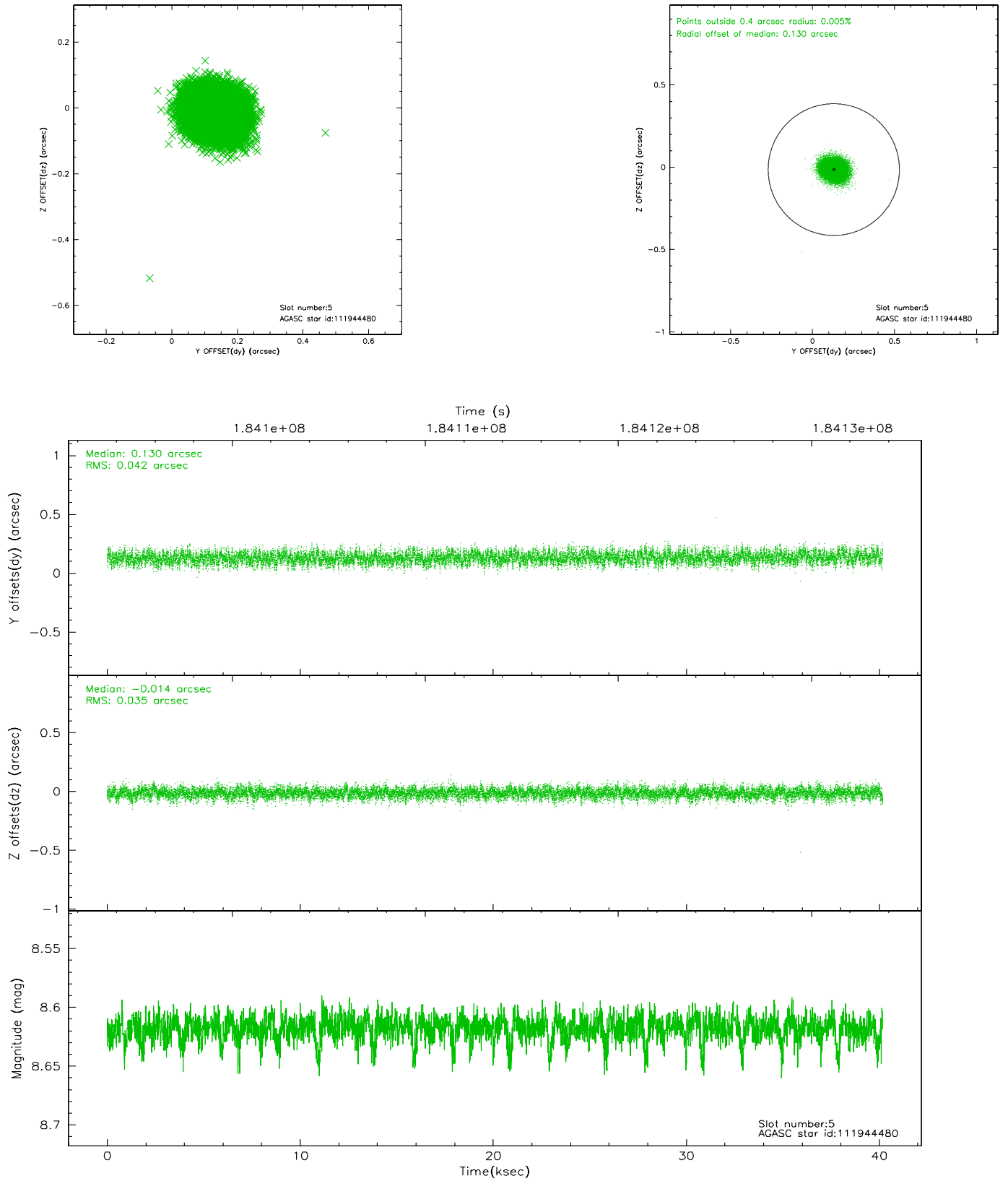
2.4.1 Slot 3



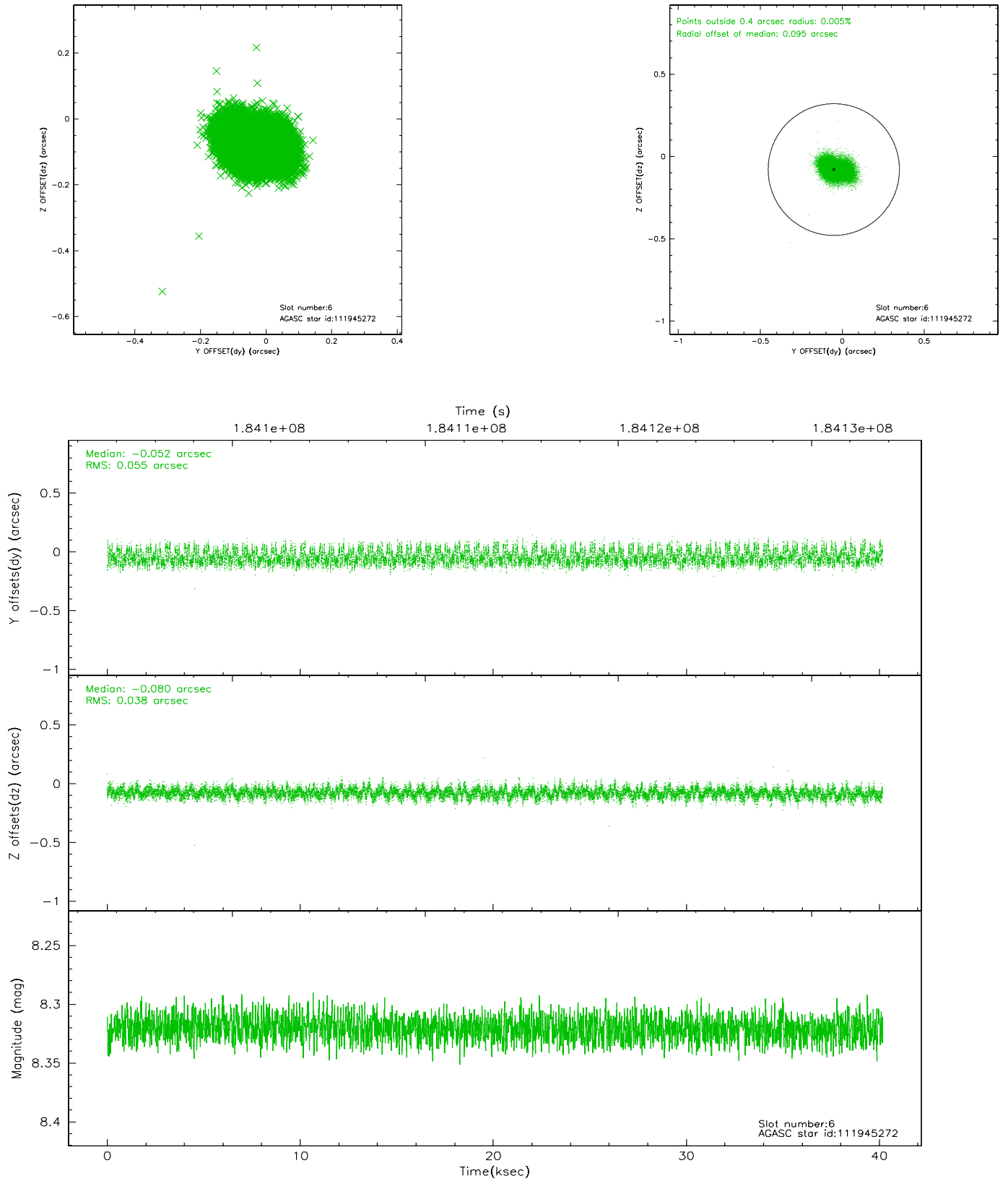
2.4.2 Slot 4



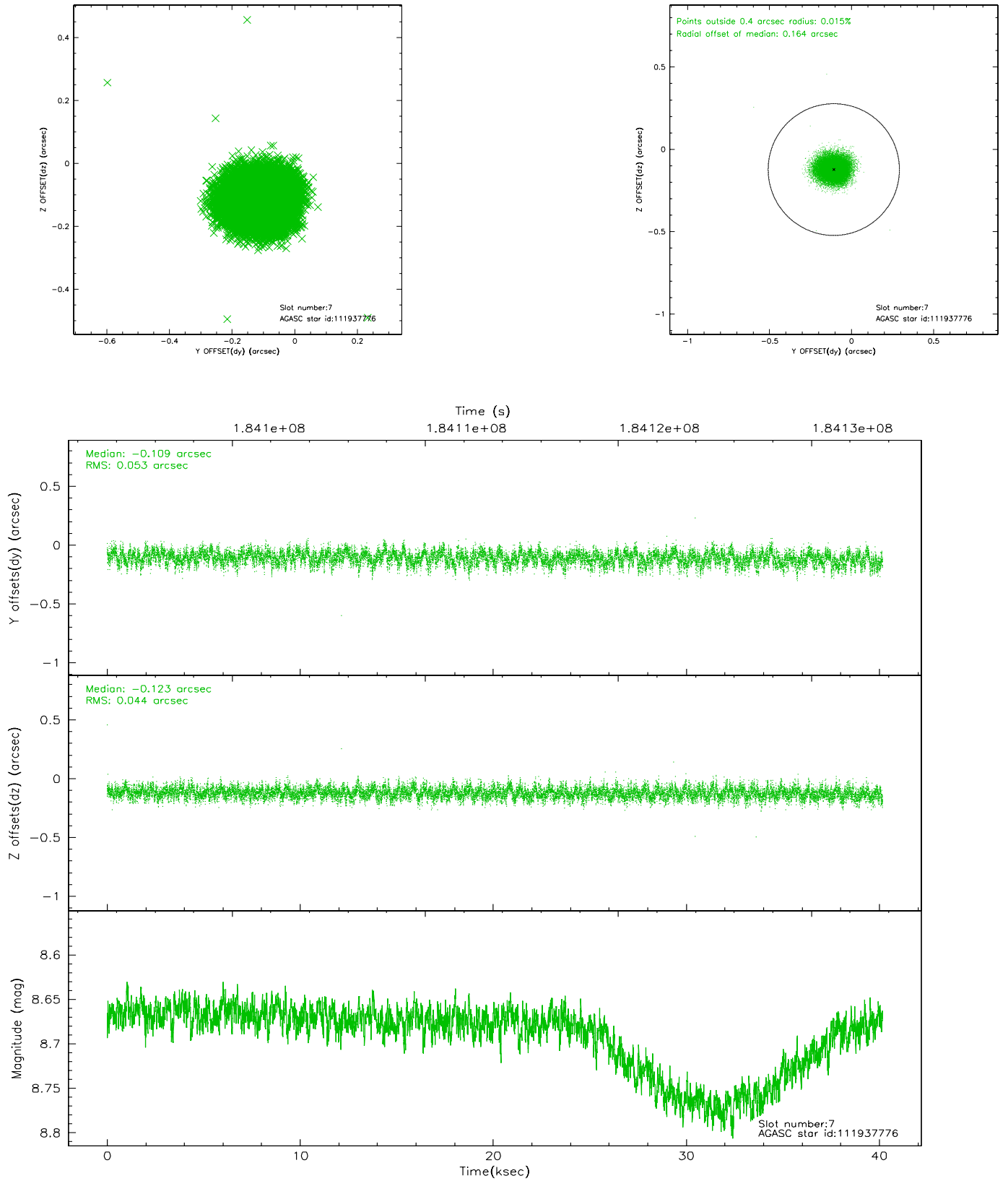
2.4.3 Slot 5



2.4.4 Slot 6

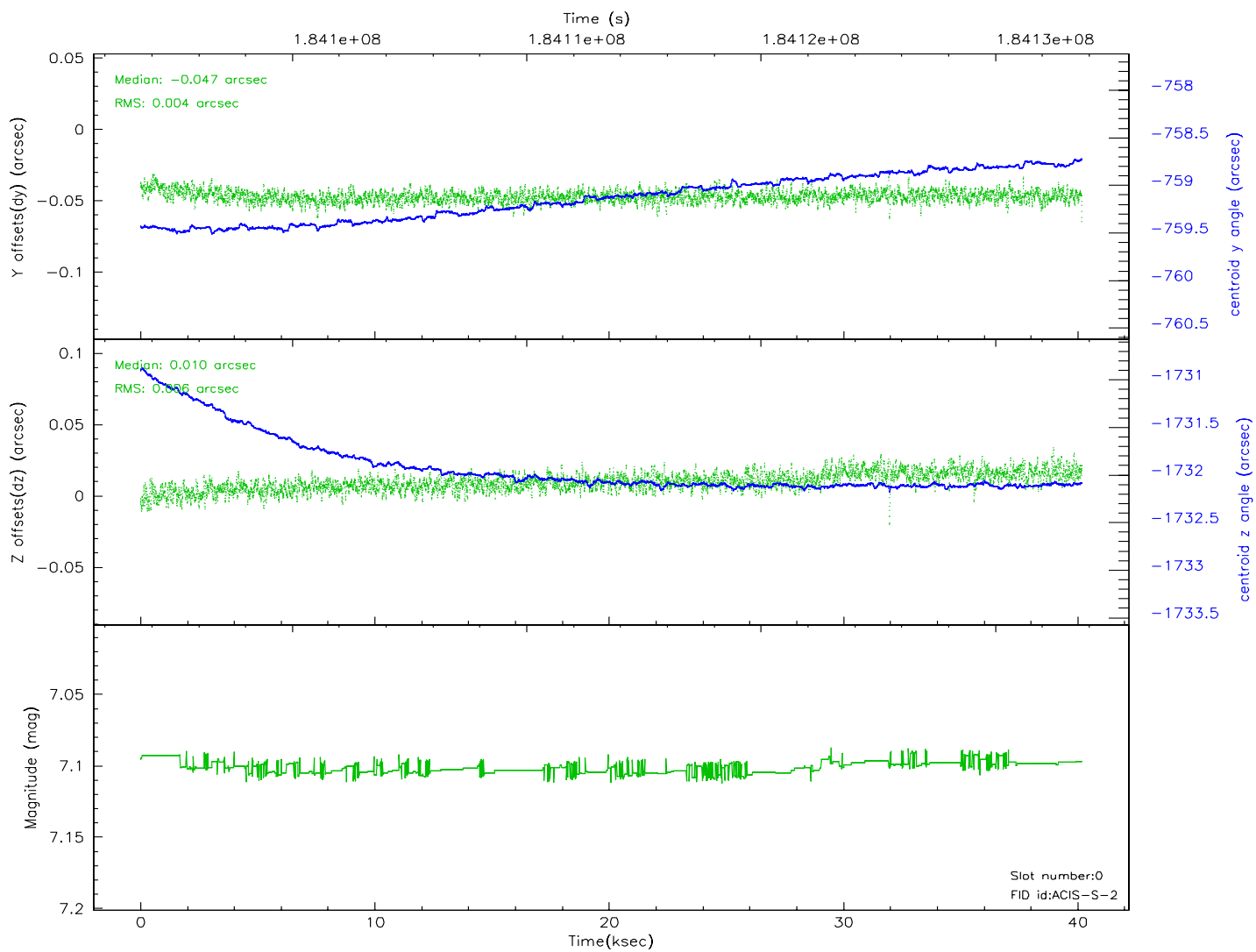
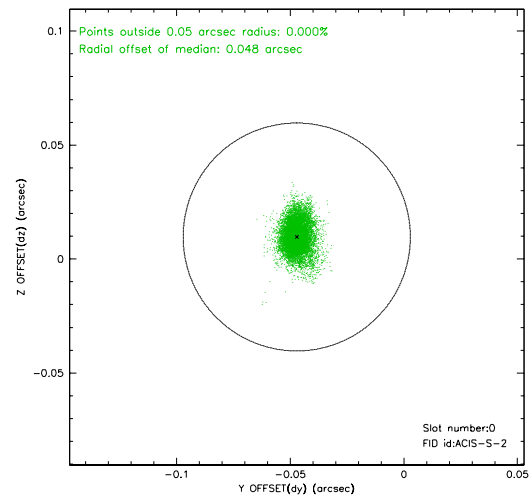
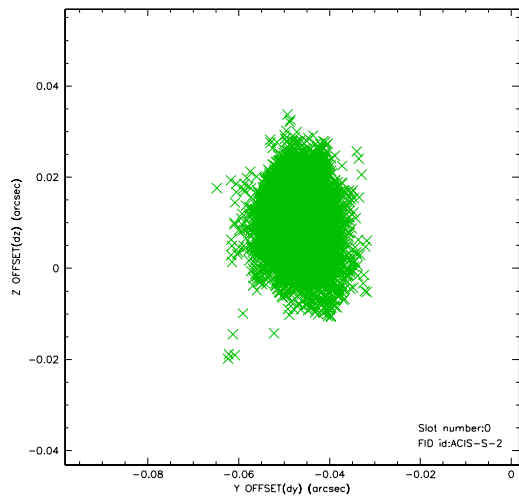


2.4.5 Slot 7

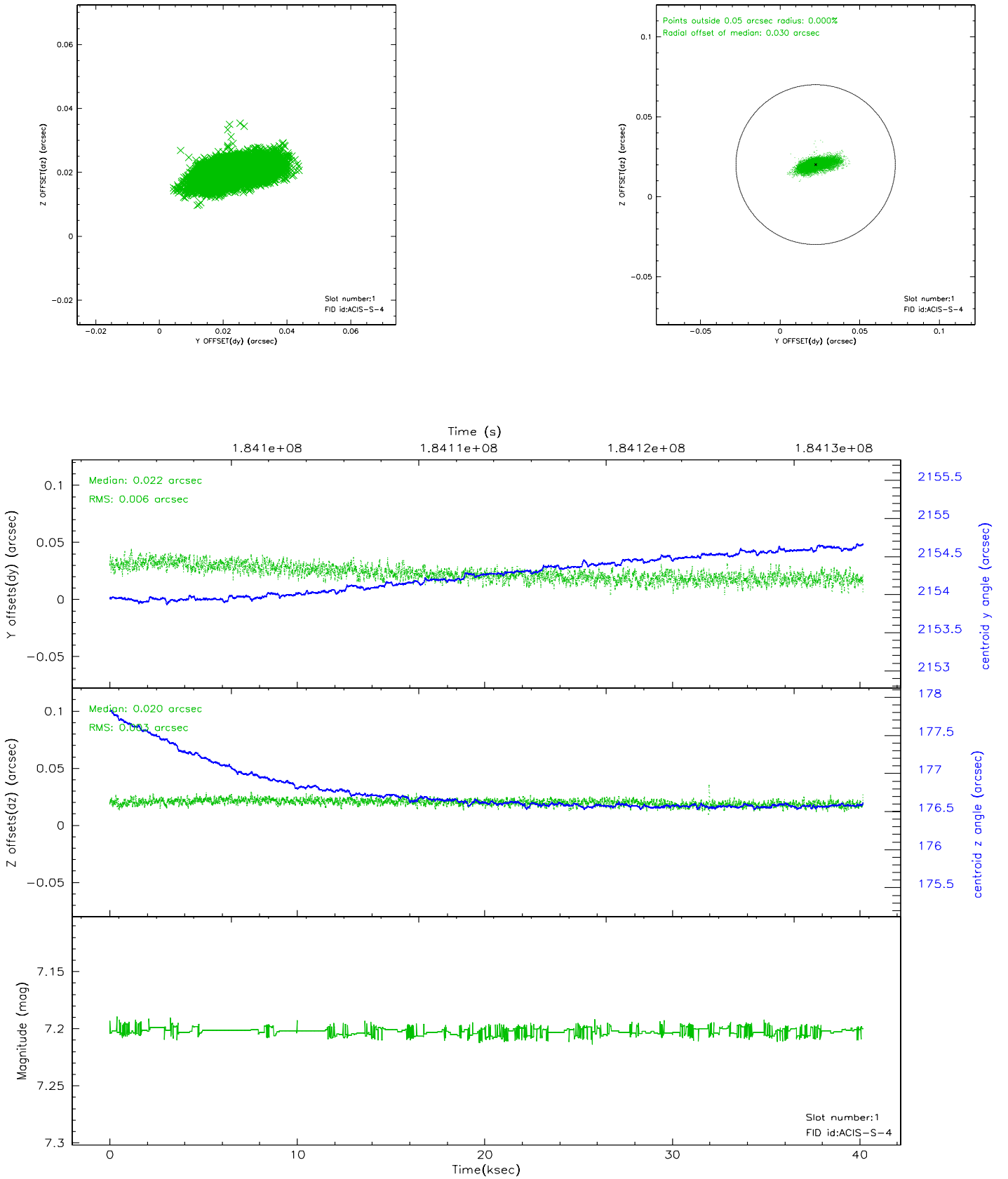


2.5 FID Slots

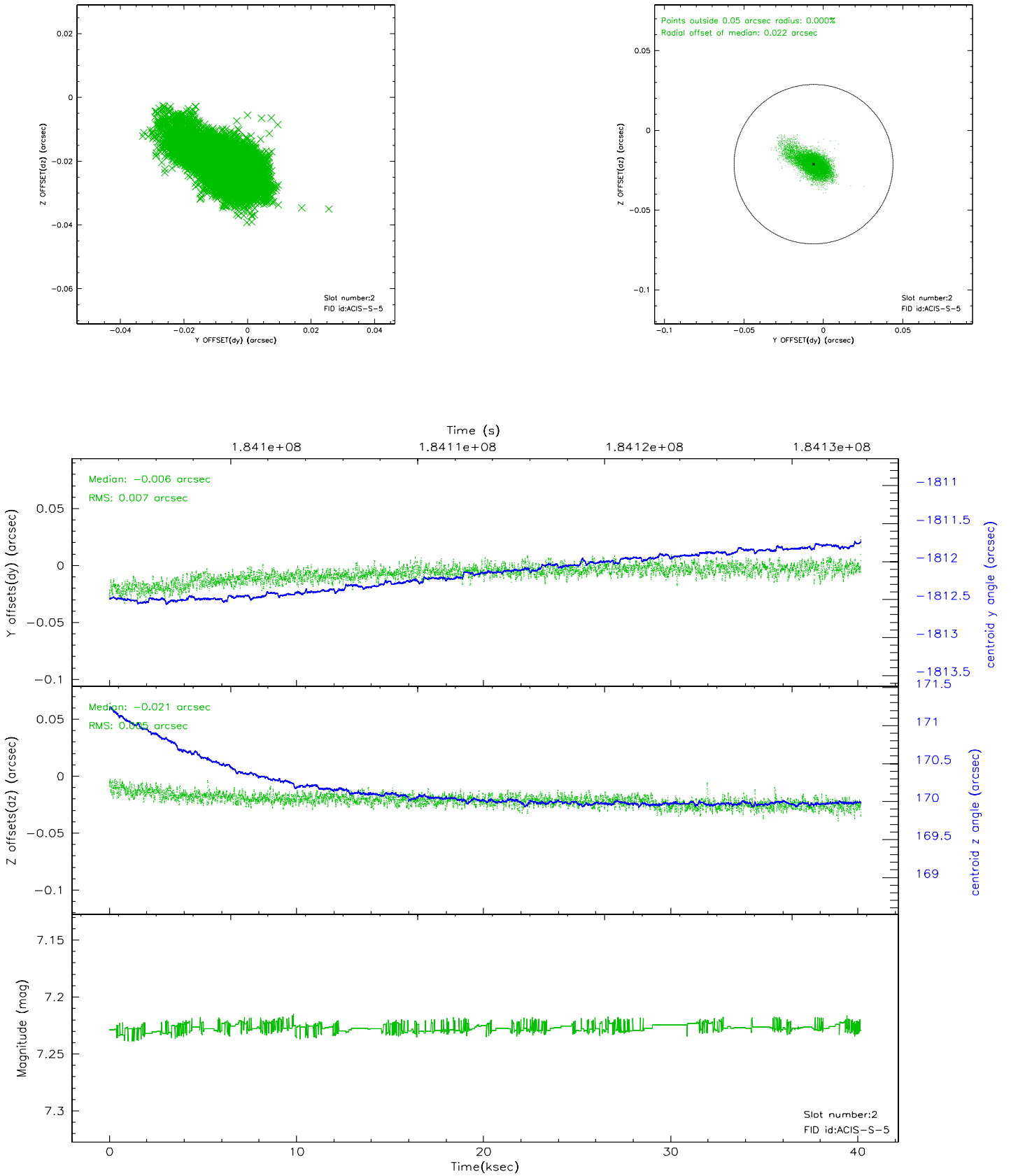
2.5.1 Slot 0



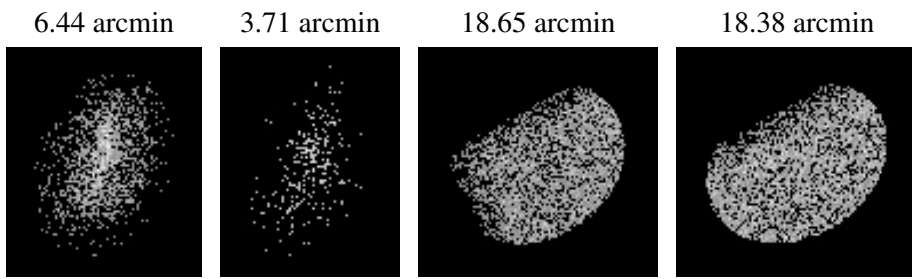
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.06.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 40.175 |

A.2 Comments