

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3307 - L2 Version 002
Chandra X-Ray Center

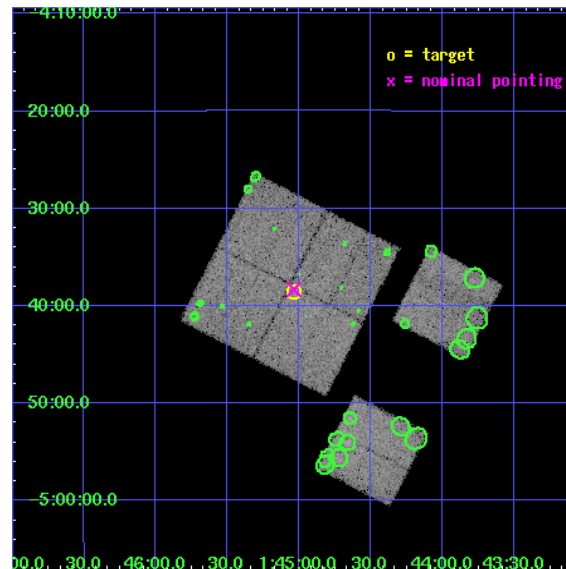
L2 Processing Date : Oct 4 2006

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 7 | 12 |
| 2.5 | FID Slots | 13 |
| 2.5.1 | Slot 0 | 13 |
| 2.5.2 | Slot 1 | 14 |
| 2.5.3 | Slot 2 | 15 |
| 3 | Point Sources | 16 |
| A | Summary | 17 |
| A.1 | Status | 17 |
| A.2 | Comments | 17 |

1 Front

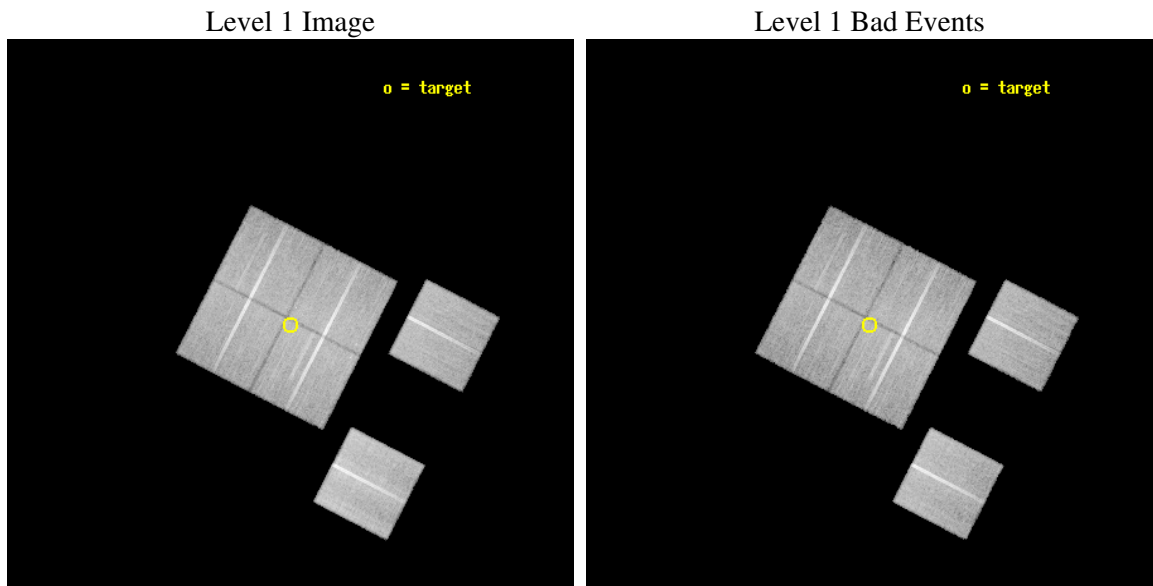
| | |
|----------|---|
| seq_num | 900146 |
| obs_id | 3307 |
| title | A COMBINED CHANDRA/XMM ATTACK ON THE ASTROPHYSICS OF THE HARD X-RAY BACKGROUND. |
| observer | Prof Ian McHardy |
| object | XMM 1HR - FIELD 2 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 26.259904 |
| dec_targ | -4.643114 |
| ra_nom | 26.25957533704 |
| dec_nom | -4.6384603306504 |
| roll_nom | 117.20864731008 |
| revision | 4 |
| ontime | 30124.758927494 |
| livetime | 29743.301091002 |
| ontime0 | 30127.999887764 |
| ontime1 | 30127.999887764 |
| ontime2 | 30121.518037021 |
| ontime3 | 30124.758927494 |
| ontime6 | 30127.999887764 |
| ontime8 | 30127.999887764 |
| l2events | 121118 |



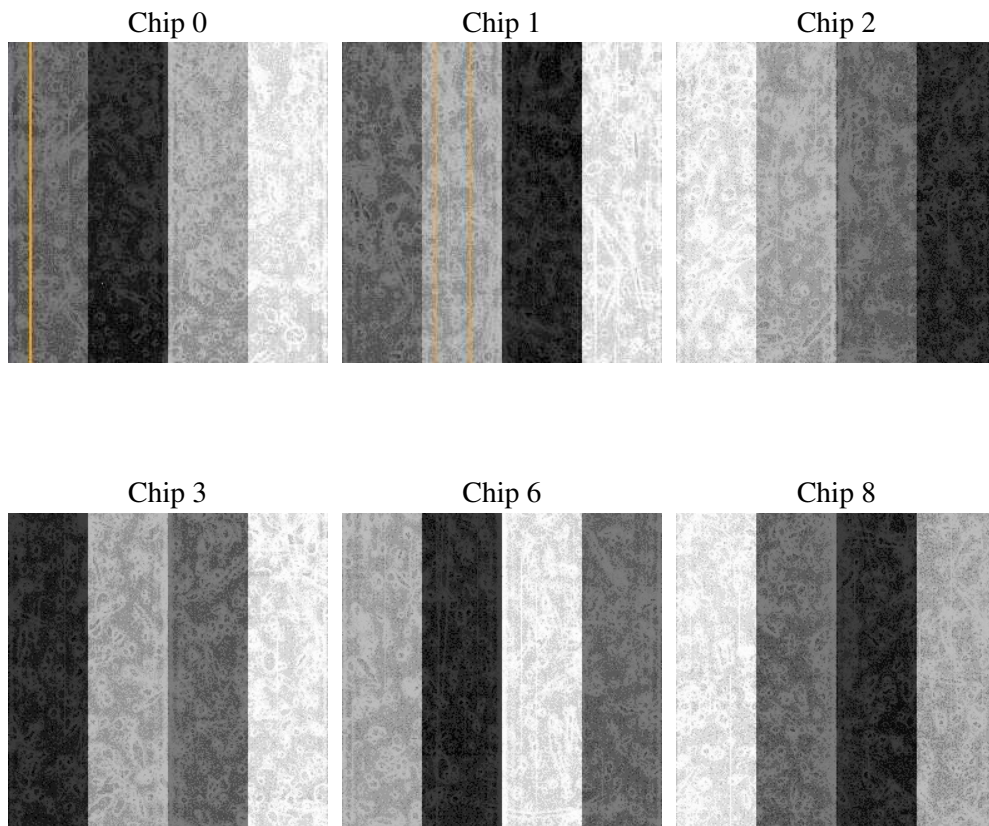
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldsver | 3.2.3 |
| date | 2006-10-04T03:34:51 |
| revision | 4 |

| | |
|----------------|-----------------|
| sched_exp_time | 30000.000000 |
| ontime | 30465.395048261 |
| ontime0 | 30468.636008531 |
| ontime1 | 30468.636008531 |
| ontime2 | 30462.154157788 |
| ontime3 | 30465.395048261 |
| ontime6 | 30468.636008531 |
| ontime8 | 30468.636038423 |
| l1events | 1237657 |

2.1.4 Events

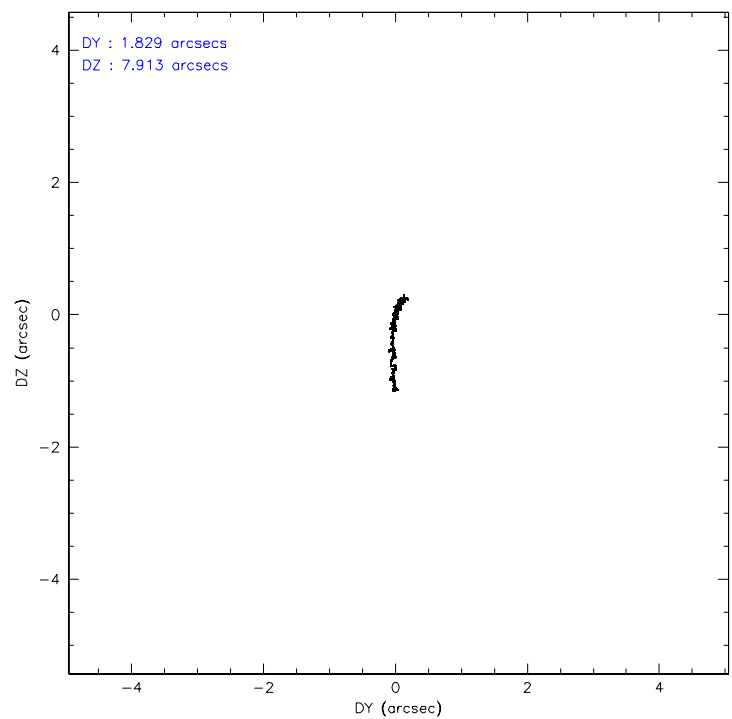
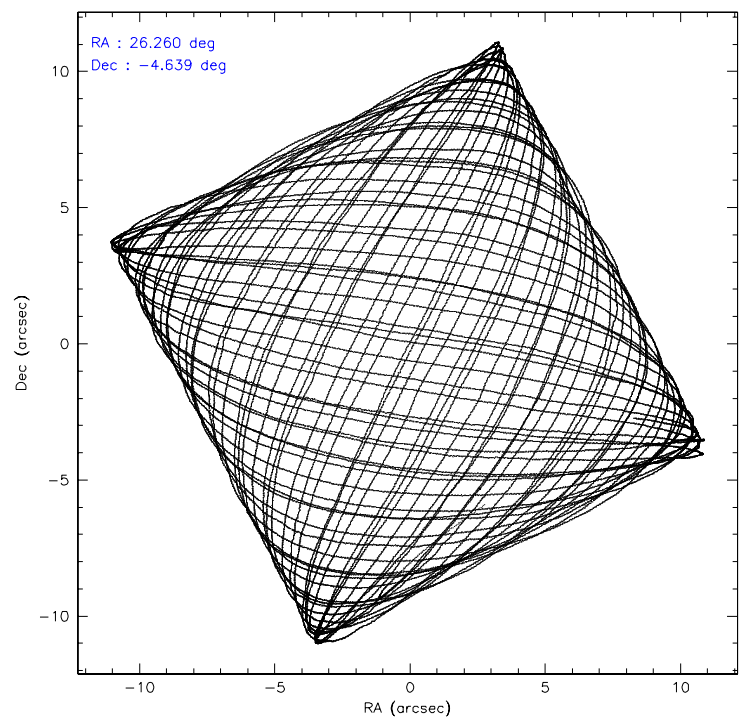
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 185686 | 184284 | 201870 | 203315 | 201377 | 261125 |
| rejected events | 162449 | 160610 | 178537 | 180489 | 179279 | 209883 |
| rejected % | 87% | 87% | 88% | 88% | 89% | 80% |

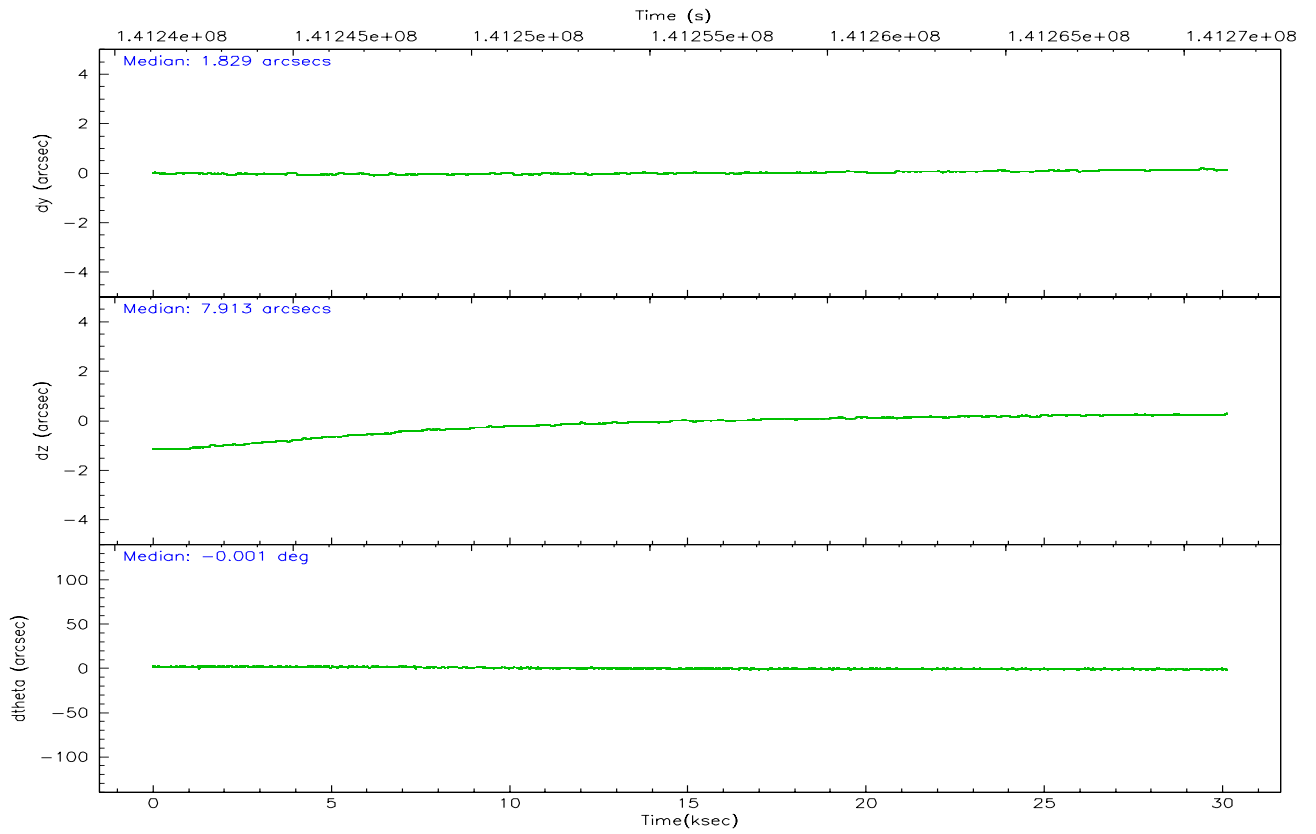
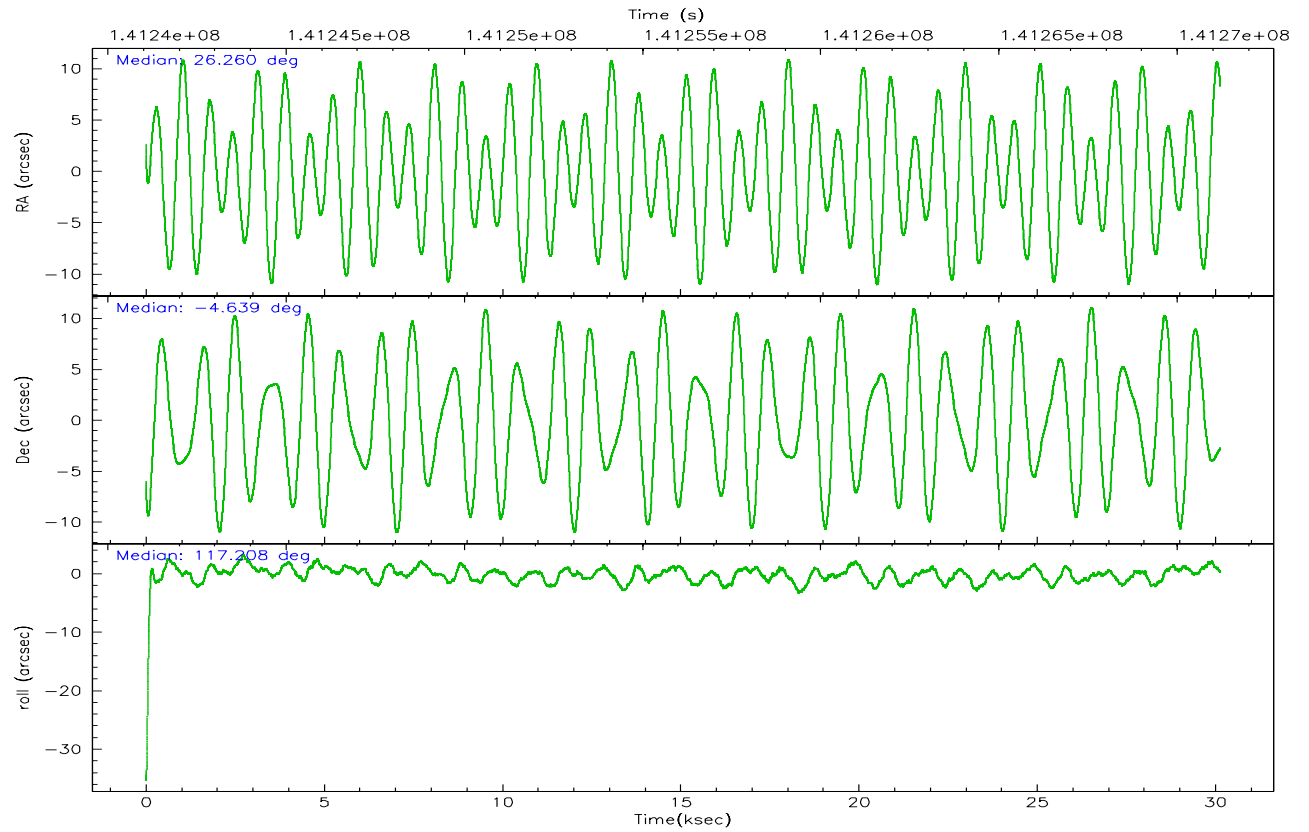
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 9750 | 9501 | 10149 | 9733 | 8624 | 15829 |
| | 5% | 5% | 5% | 4% | 4% | 6% |
| grade 1 events | 82 | 112 | 81 | 105 | 85 | 155 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 5041 | 4994 | 4987 | 4723 | 4523 | 11712 |
| | 2% | 2% | 2% | 2% | 2% | 4% |
| grade 3 events | 2307 | 2475 | 2213 | 2214 | 2245 | 5563 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 4 events | 2132 | 2434 | 2159 | 2242 | 2274 | 5224 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 5 events | 7615 | 8073 | 7099 | 8178 | 8478 | 11384 |
| | 4% | 4% | 3% | 4% | 4% | 4% |
| grade 6 events | 4263 | 4553 | 4084 | 4175 | 4689 | 13512 |
| | 2% | 2% | 2% | 2% | 2% | 5% |
| grade 7 events | 154496 | 152142 | 171098 | 171945 | 170459 | 197746 |
| | 83% | 82% | 84% | 84% | 84% | 75% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-012368 | ACIS-012368 | 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 |
| Pointing RA | 26.282719 | 26.25957533704002 | Subarray requested | NONE | NONE |
| Pointing Dec | -4.653223 | -4.638460330650387 | Alternating exposures requested | N | N |
| Pointing Roll | 117.001853 | 117.2086473100788 | Primary exposure time | 0.000000 | 3.2 |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -233.592463 | -233.5874344608287 | | | |
| SIM translation stage offset (mm) | 0 | -0.005018542100998502 | | | |
| Observation start time | 141241205.184000 | 141239996.9707 | | | |
| Observation start date | 2002-06-23T17:39:01 | 2002-06-23T17:19:56 | | | |
| Observation end time | 141271205.184000 | 141271862.6845 | | | |
| Observation end date | 2002-06-24T01:59:01 | 2002-06-24T02:11:02 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



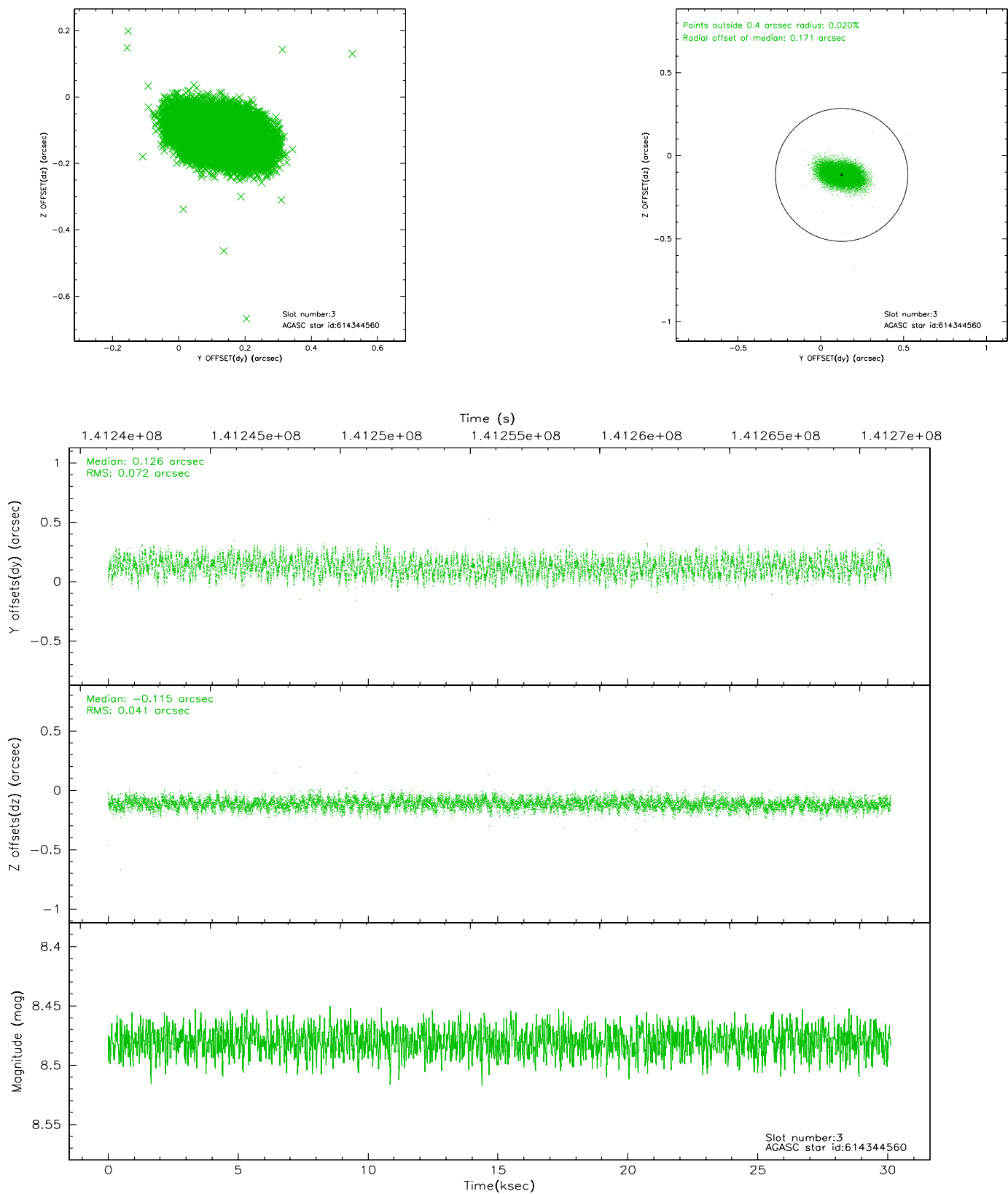


Slot Statistics

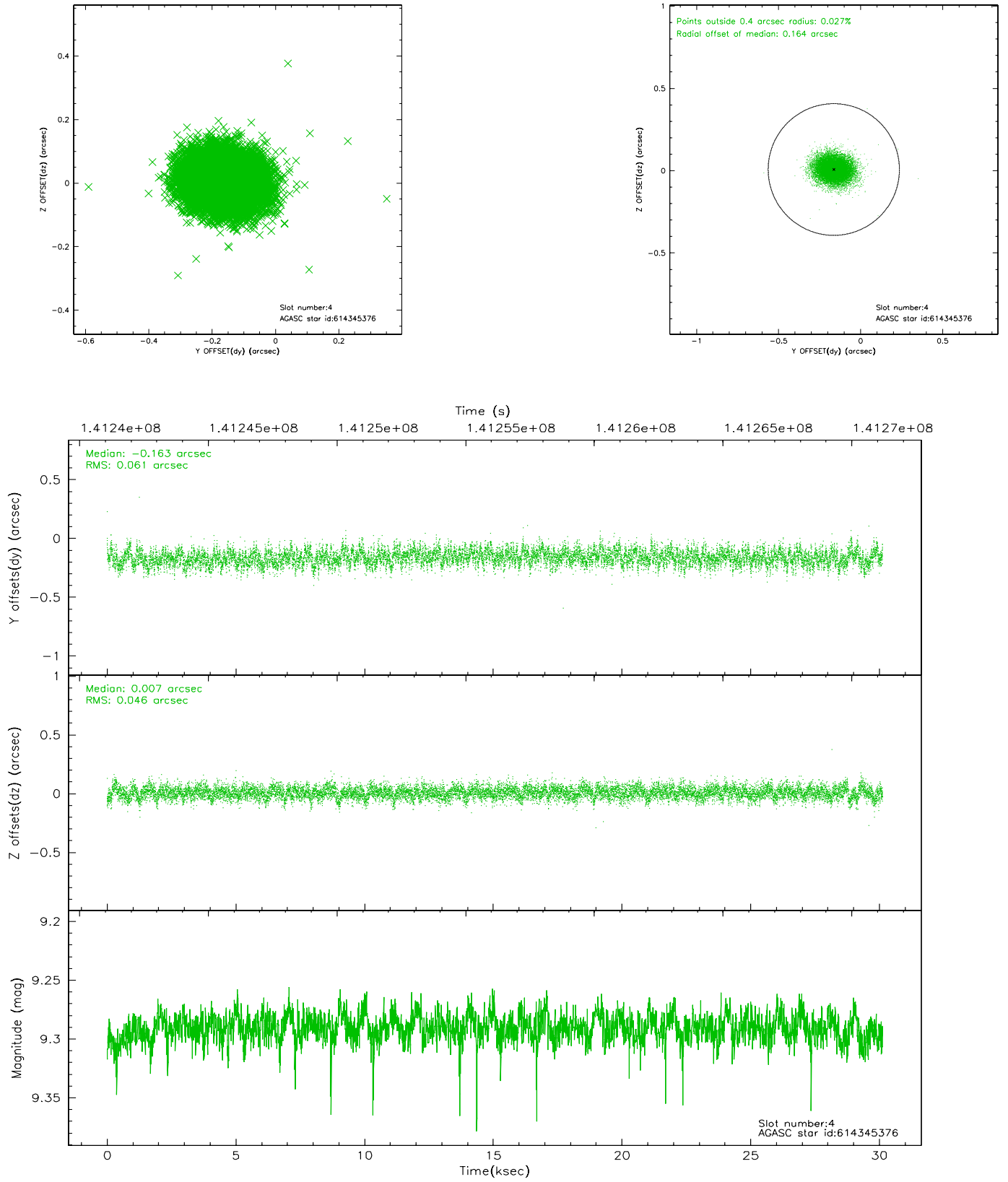
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|---------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|---------|
| 0 | FID | ACIS-I-1 | 7.24 | 7348 | -0.038 | 0.077 | 0.021 | 0.032 | 0.000000 | 0.000000 | 937.92 | -831.10 |
| 1 | FID | ACIS-I-5 | 7.23 | 7348 | -0.010 | 0.032 | 0.013 | 0.020 | 0.000000 | 0.000000 | -1810.09 | 1066.35 |
| 2 | FID | ACIS-I-6 | 7.26 | 7348 | -0.038 | -0.040 | 0.014 | 0.024 | 0.000000 | 0.000000 | 403.43 | 1710.83 |
| 3 | GUIDE | 614344560 | 8.48 | 14695 | 0.126 | -0.115 | 0.088 | 0.141 | 25.966640 | -5.517685 | -2257.95 | 2423.25 |
| 4 | GUIDE | 614345376 | 9.29 | 14695 | -0.163 | 0.007 | 0.081 | 0.133 | 25.702118 | -4.344424 | 1936.58 | 1353.94 |
| 5 | GUIDE | 614344768 | 9.61 | 14695 | -0.224 | -0.049 | 0.103 | 0.164 | 25.572186 | -4.331089 | 2191.01 | 1747.85 |
| 6 | OMITTED | | 0.00 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000000 | 0.000000 | 0.00 | 0.00 |
| 7 | GUIDE | 614479384 | 9.40 | 14695 | 0.261 | 0.156 | 0.098 | 0.163 | 26.458684 | -5.277867 | -2288.77 | 460.28 |

2.4 Star Slots

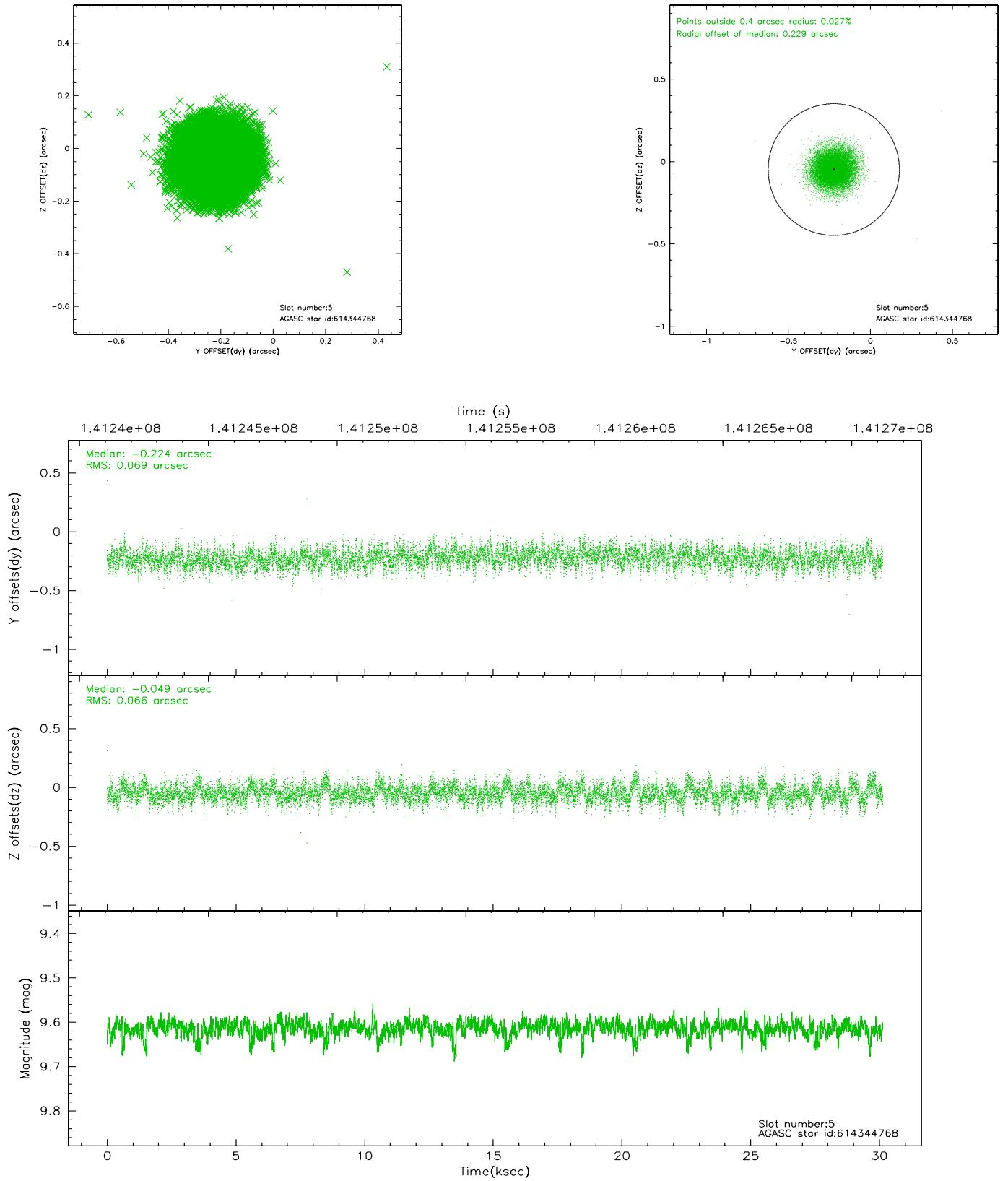
2.4.1 Slot 3



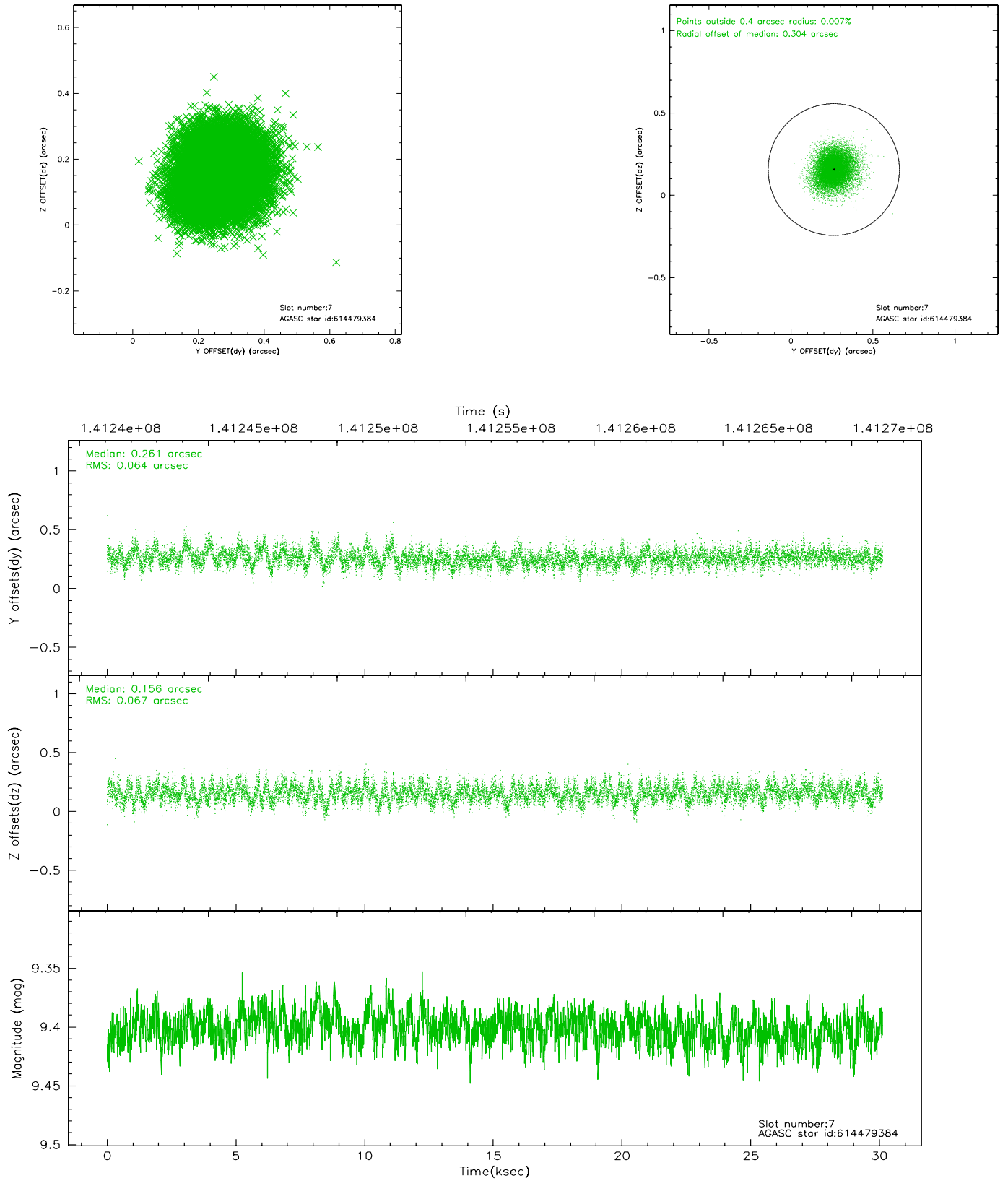
2.4.2 Slot 4



2.4.3 Slot 5

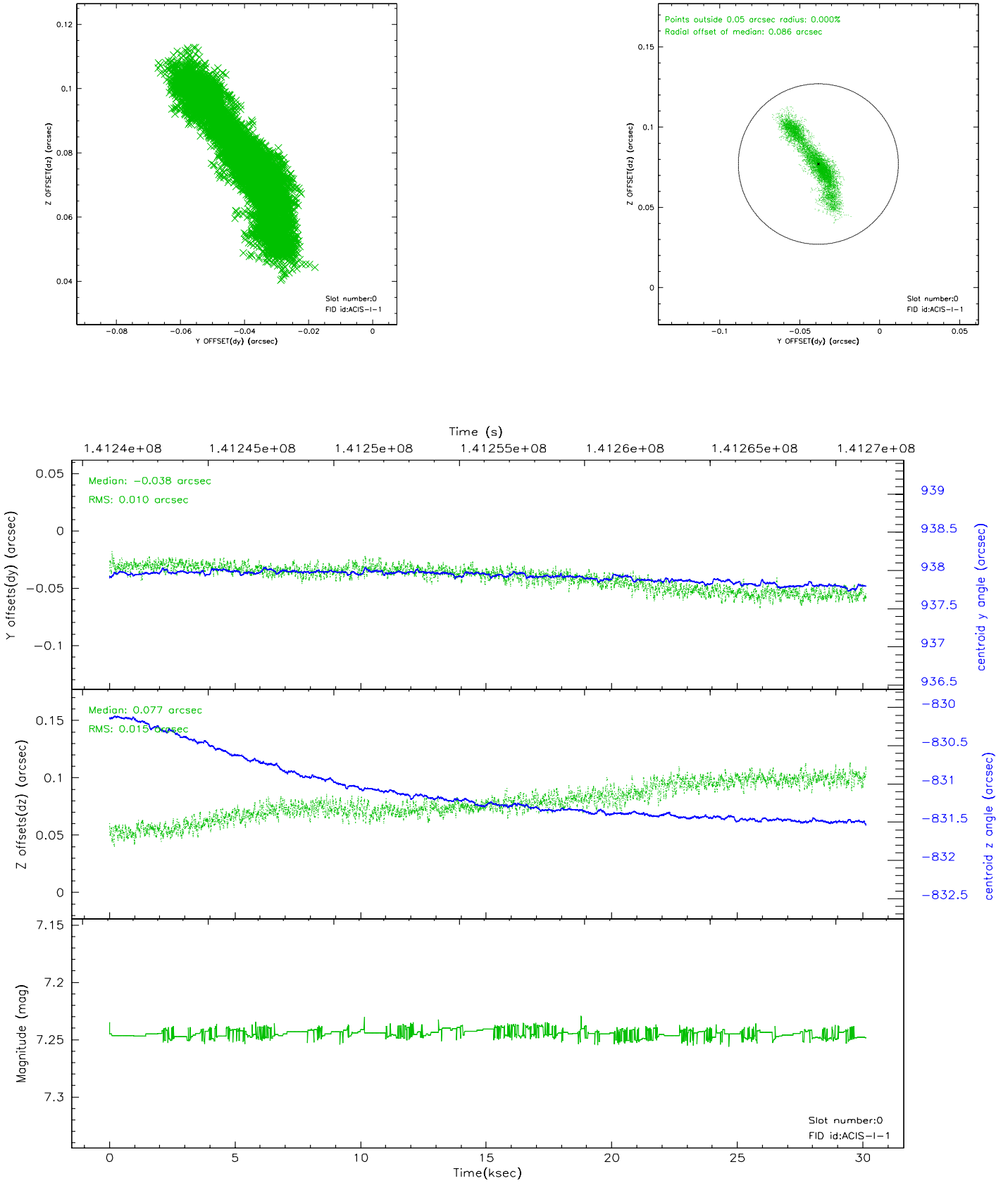


2.4.4 Slot 7

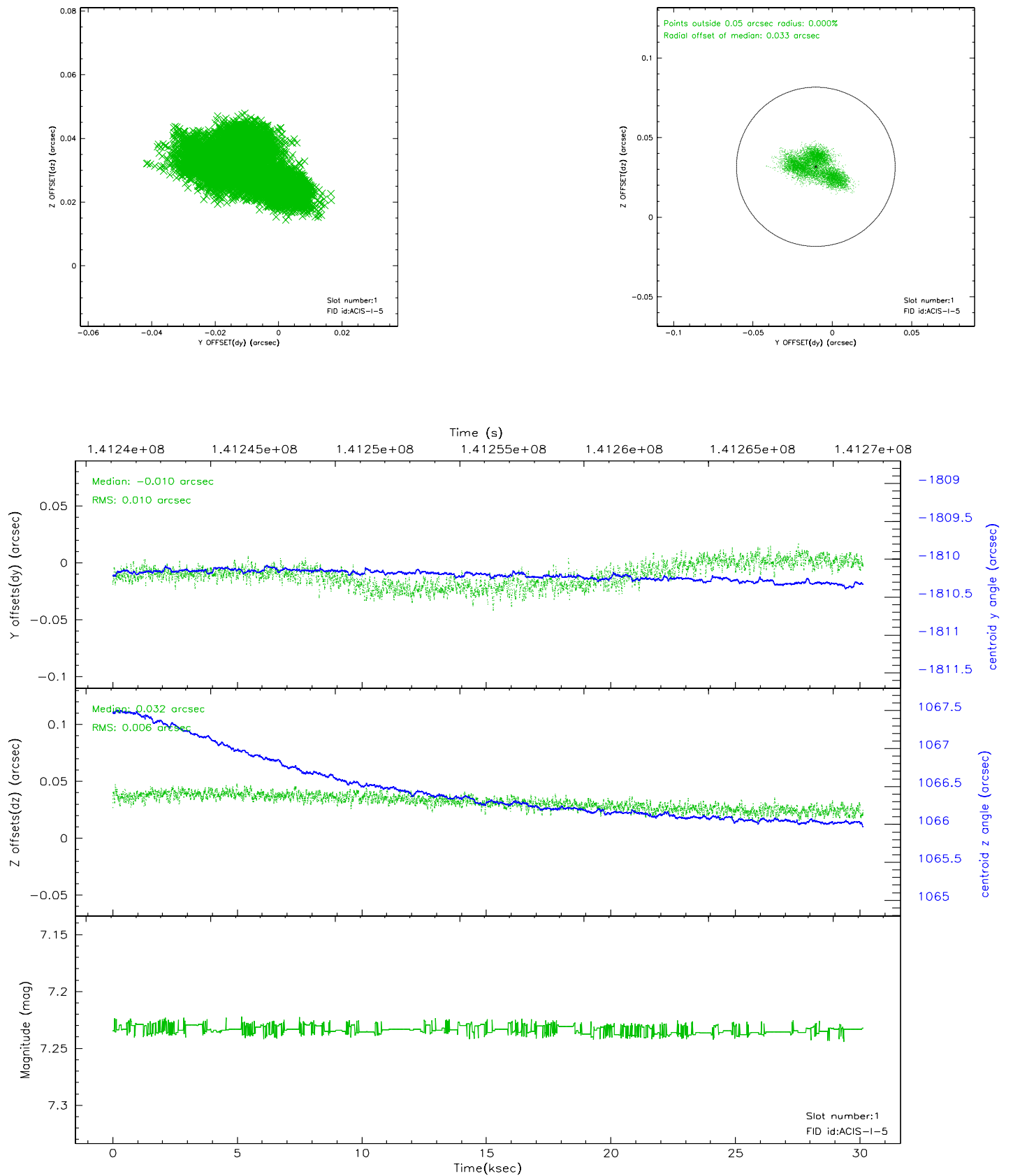


2.5 FID Slots

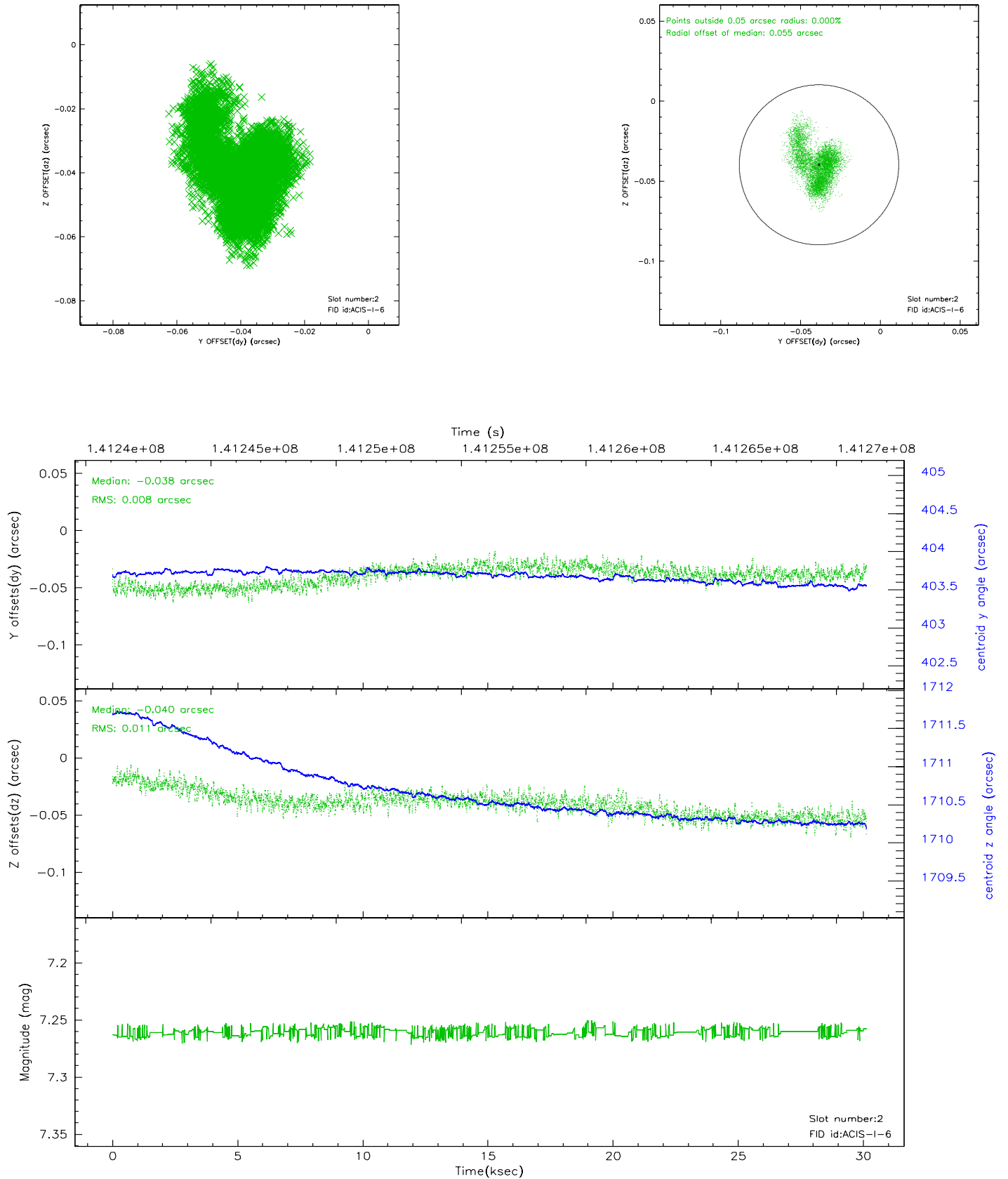
2.5.1 Slot 0



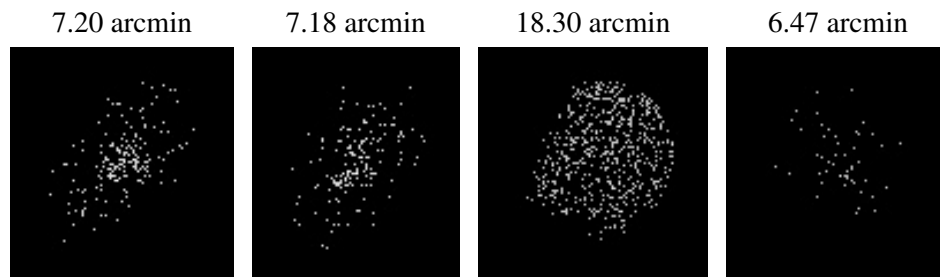
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.10.05 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 30.124 |

A.2 Comments

Slot 6 was excluded from aspect solution.