

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 3086 - L2 Version 001
Chandra X-Ray Center

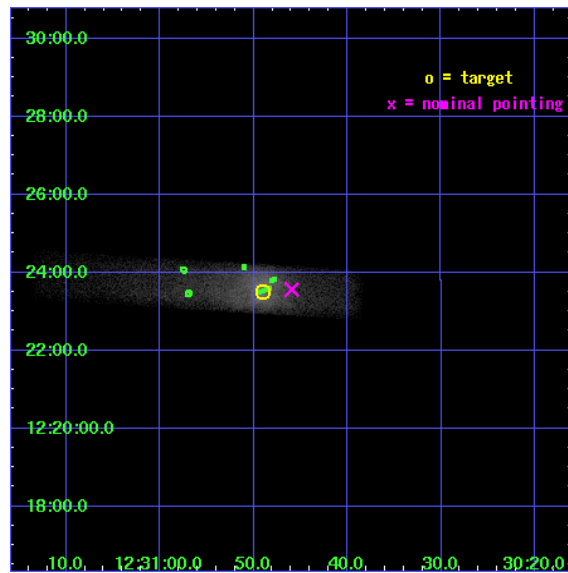
L2 Processing Date : Sep 9 2006

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1 Front

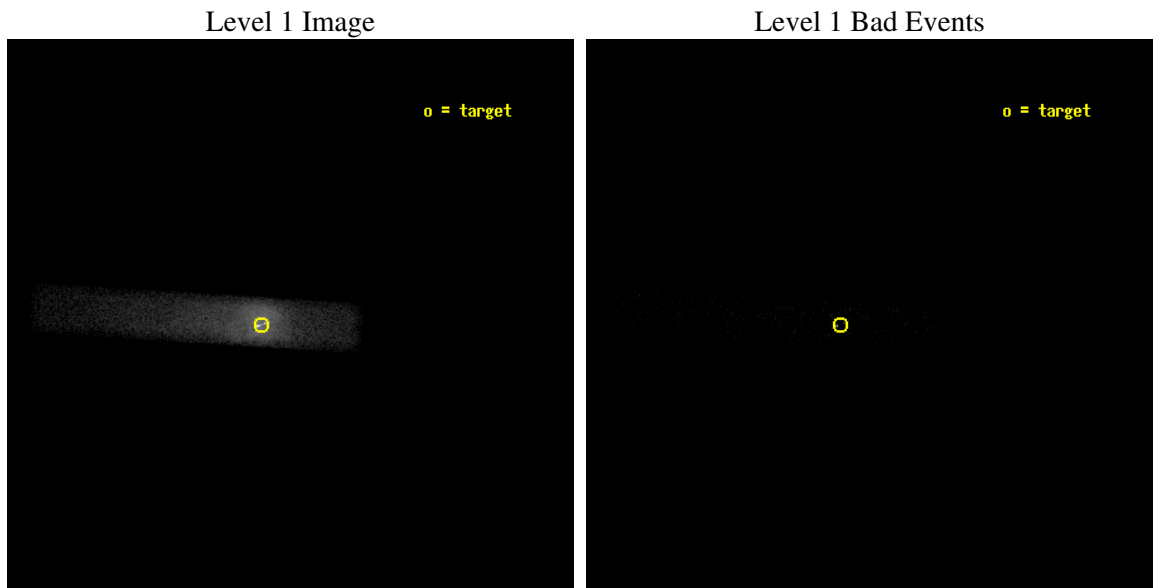
| | |
|----------|--|
| seq_num | 700525 |
| obs_id | 3086 |
| title | X-RAY VARIABILITY IN THE JET AND CORE OF M87 |
| observer | Dr. Daniel Harris |
| object | M87 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 187.704167 |
| dec_targ | 12.391667 |
| ra_nom | 187.69138911882 |
| dec_nom | 12.392626017763 |
| roll_nom | 183.56564378332 |
| revision | 3 |
| ontime | 5088.7590358555 |
| livetime | 4615.2358387952 |
| ontime7 | 5088.7590358555 |
| l2events | 61651 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8.1 |
| caldbver | 3.2.3 |
| date | 2006-09-09T09:54:22 |
| revision | 3 |

| | |
|----------------|----------------|
| sched_exp_time | 4889.820000 |
| ontime | 5850.764477402 |
| ontime7 | 5850.764477402 |
| l1events | 68201 |

2.1.4 Events

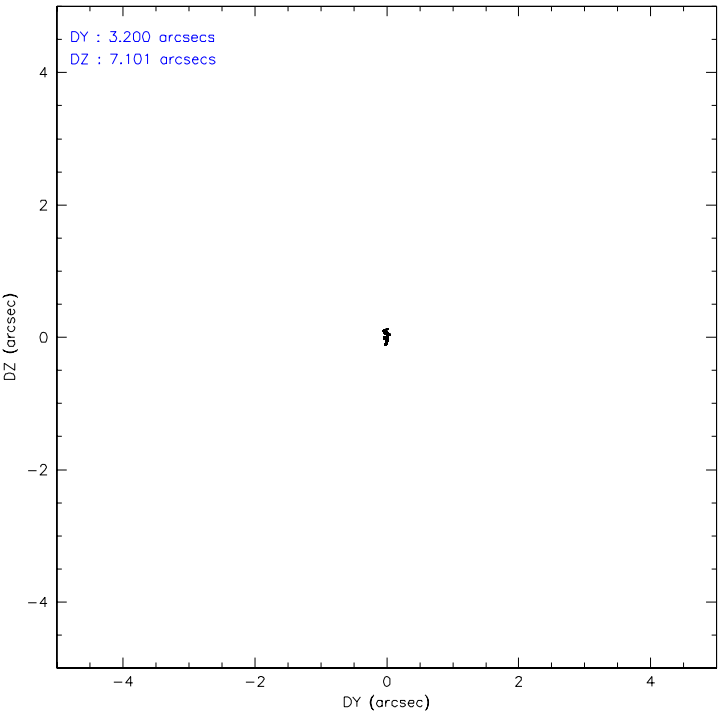
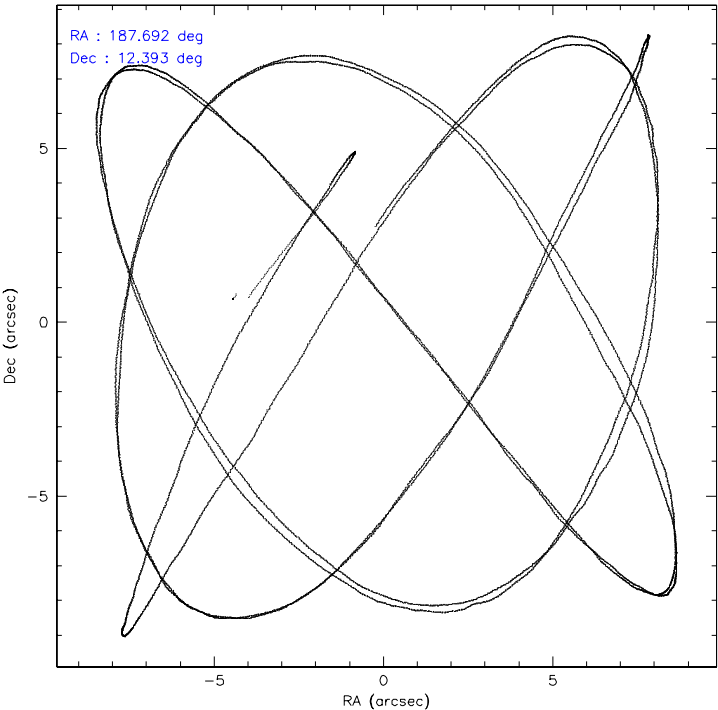
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 68201 |
| rejected events | 5808 |
| rejected % | 8% |

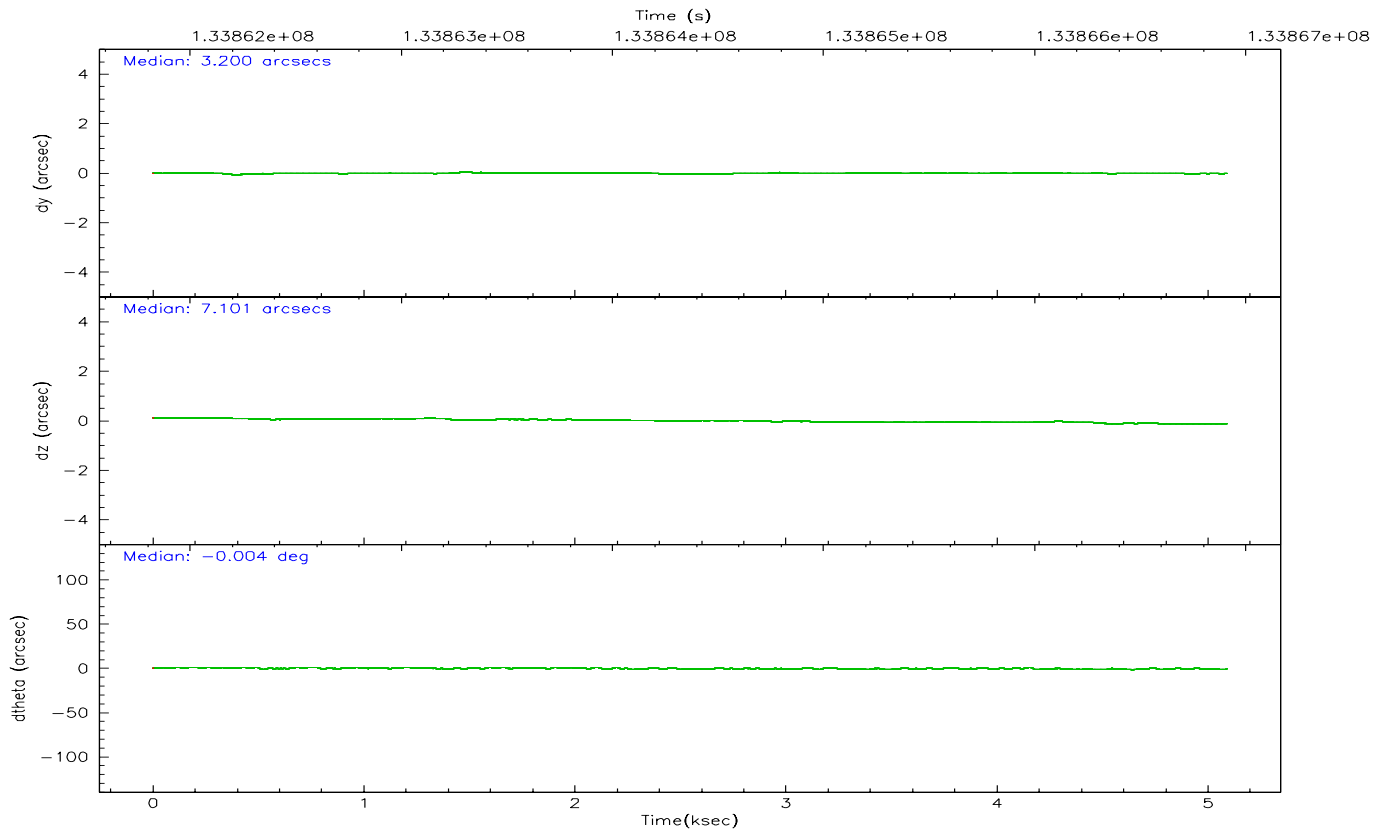
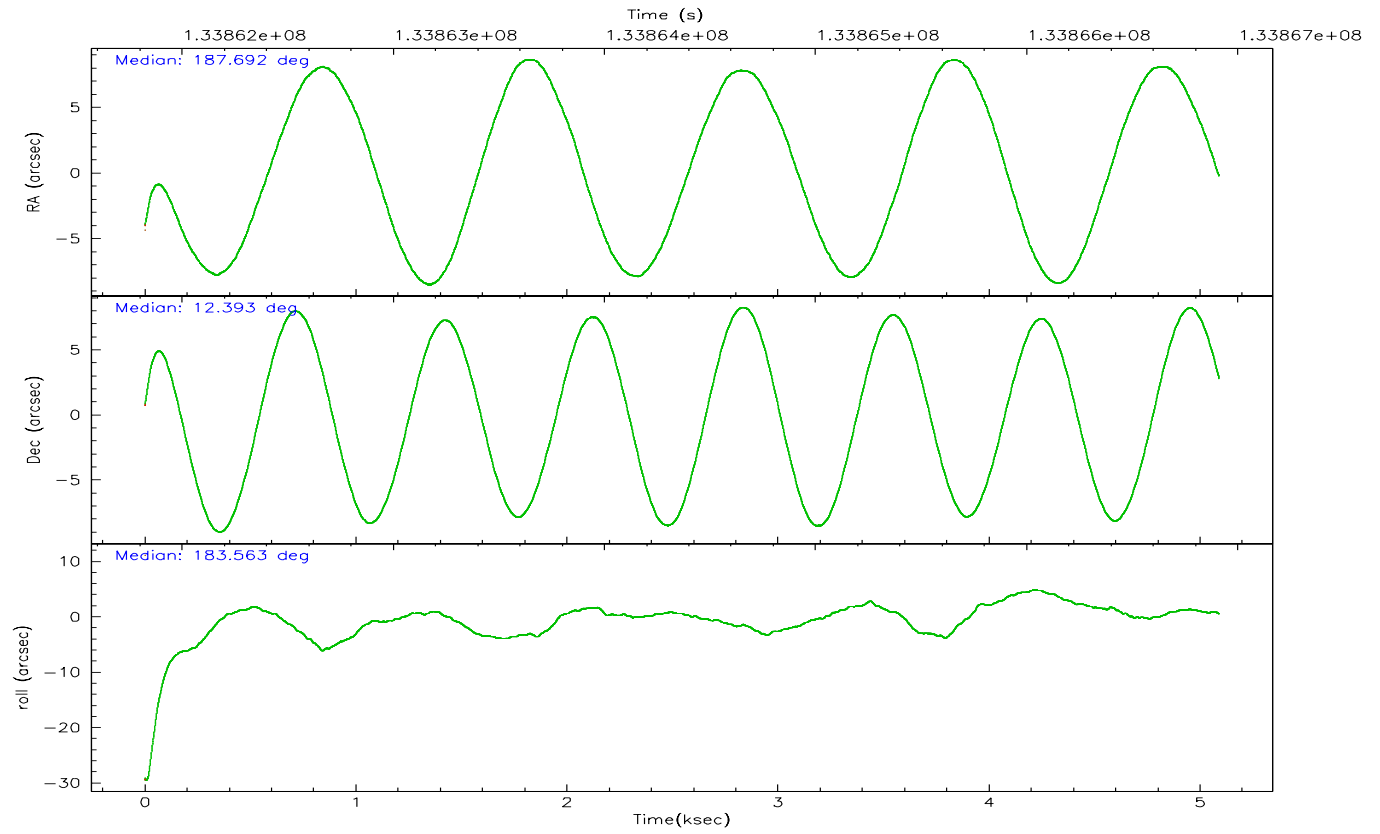
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 20266 |
| | 29% |
| grade 1 events | 74 |
| | 0% |
| grade 2 events | 17018 |
| | 24% |
| grade 3 events | 7320 |
| | 10% |
| grade 4 events | 7105 |
| | 10% |
| grade 5 events | 879 |
| | 1% |
| grade 6 events | 12236 |
| | 17% |
| grade 7 events | 3303 |
| | 4% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-7 | ACIS-7 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | 1/8 | 1/8 |
| Pointing RA | 187.714457 | 187.6913891188228 | Subarray start row | 0 | 449 |
| Pointing Dec | 12.407963 | 12.39262601776274 | Subarray row count | 1024 | 128 |
| Pointing Roll | 183.404103 | 183.5656437833233 | Alternating exposures requested | N | N |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | Primary exposure time | 0.000000 | 0.4 |
| 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 | 133862026.184000 | 133861013.98234 | | | |
| Observation start date | 2002-03-30T07:52:42 | 2002-03-30T07:36:53 | | | |
| Observation end time | 133866916.184000 | 133867230.0951 | | | |
| Observation end date | 2002-03-30T09:14:12 | 2002-03-30T09:20:30 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



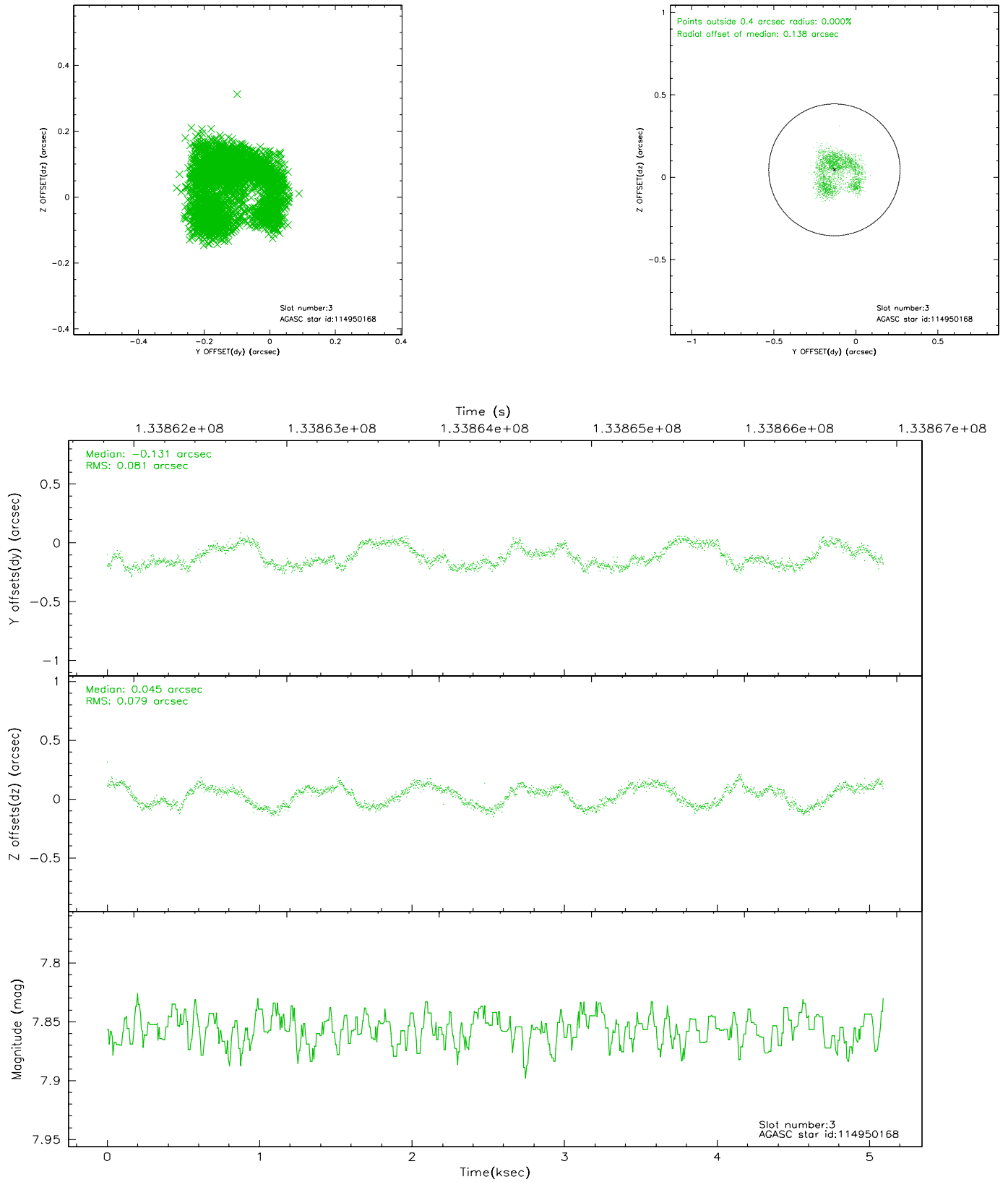


Slot Statistics

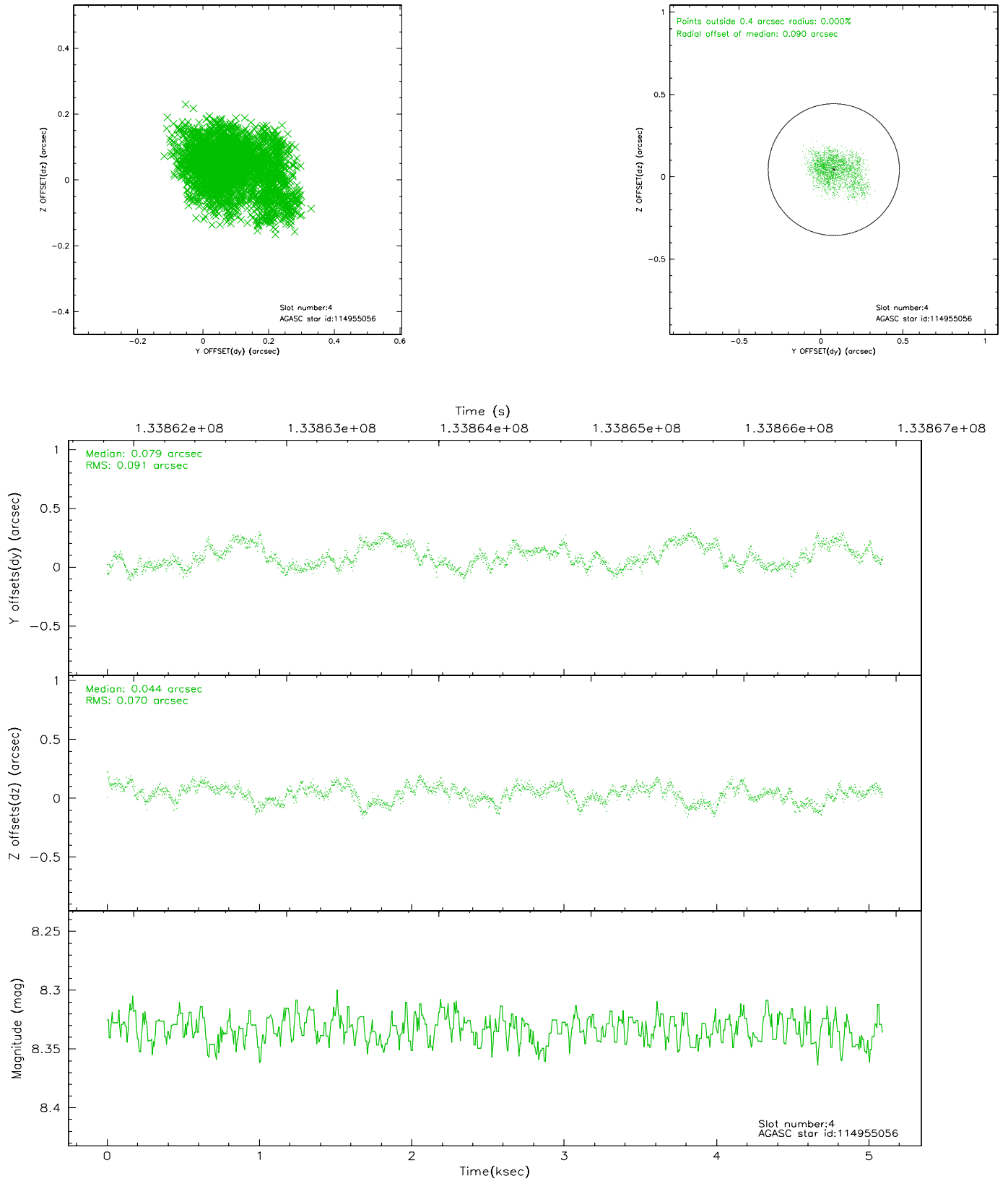
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 1241 | 0.001 | 0.028 | 0.007 | 0.011 | 0.000000 | 0.000000 | -755.84 | -1728.25 |
| 1 | FID | ACIS-S-4 | 7.20 | 1241 | -0.062 | -0.008 | 0.005 | 0.008 | 0.000000 | 0.000000 | 2156.83 | 178.97 |
| 2 | FID | ACIS-S-5 | 7.24 | 1241 | 0.029 | -0.011 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1807.12 | 173.99 |
| 3 | GUIDE | 114950168 | 7.86 | 2483 | -0.131 | 0.045 | 0.127 | 0.176 | 187.143398 | 12.117441 | 2069.30 | 923.44 |
| 4 | GUIDE | 114955056 | 8.33 | 2481 | 0.079 | 0.044 | 0.121 | 0.199 | 187.914001 | 12.127854 | -639.32 | 1049.09 |
| 5 | GUIDE | 114950584 | 9.20 | 2479 | -0.096 | -0.010 | 0.116 | 0.181 | 187.487323 | 11.827248 | 923.69 | 2040.19 |
| 6 | GUIDE | 114952424 | 9.33 | 2482 | 0.015 | 0.039 | 0.135 | 0.215 | 187.477948 | 11.953762 | 930.24 | 1584.03 |
| 7 | GUIDE | 114952792 | 9.46 | 2481 | 0.145 | -0.128 | 0.411 | 0.638 | 187.070263 | 12.344747 | 2276.52 | 91.36 |

2.4 Star Slots

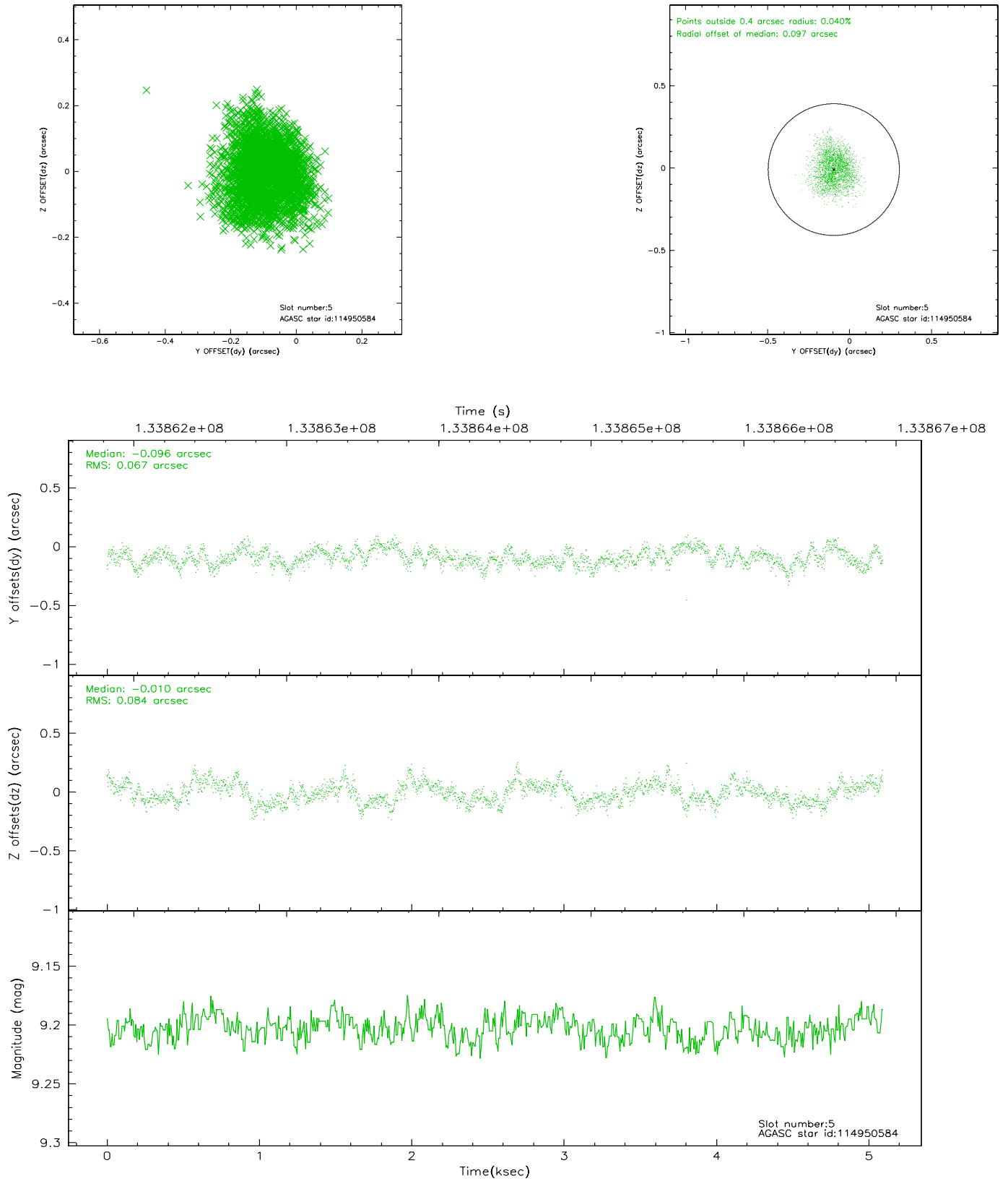
2.4.1 Slot 3



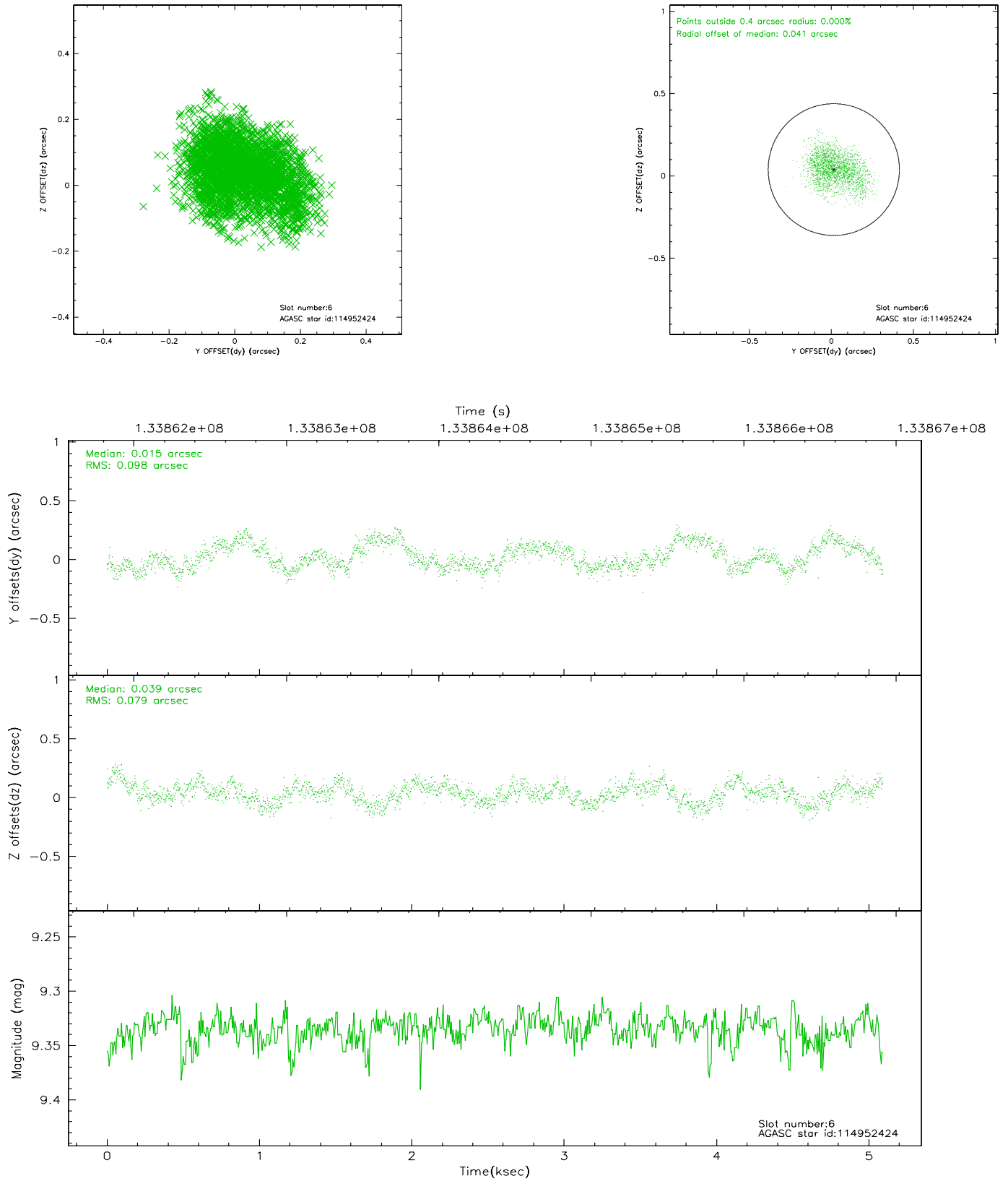
2.4.2 Slot 4



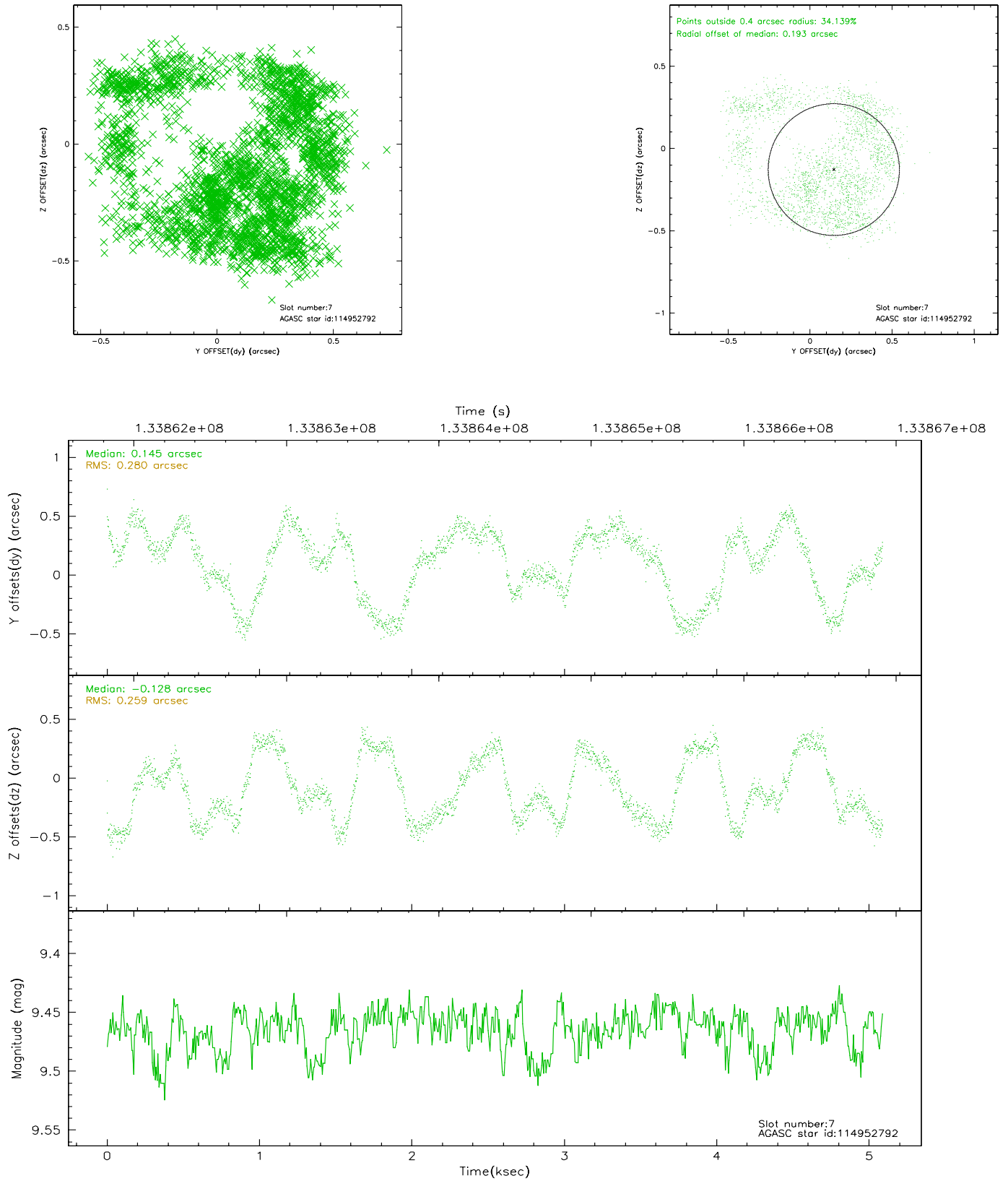
2.4.3 Slot 5



2.4.4 Slot 6

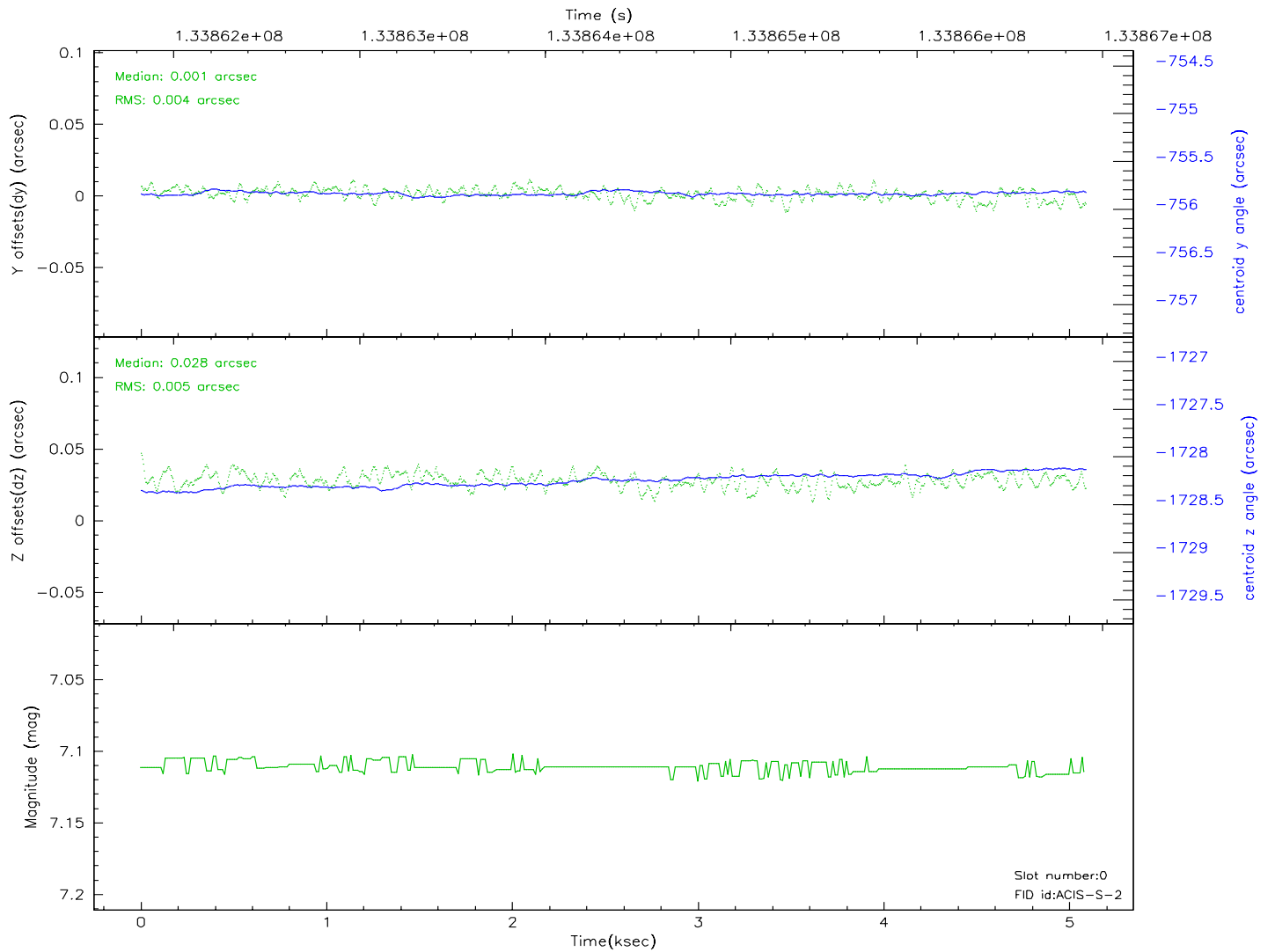
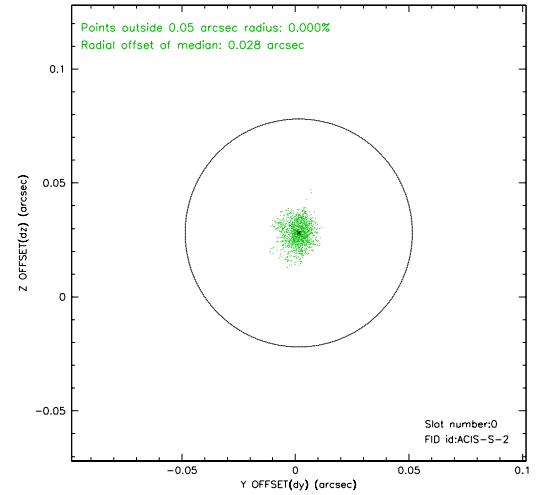
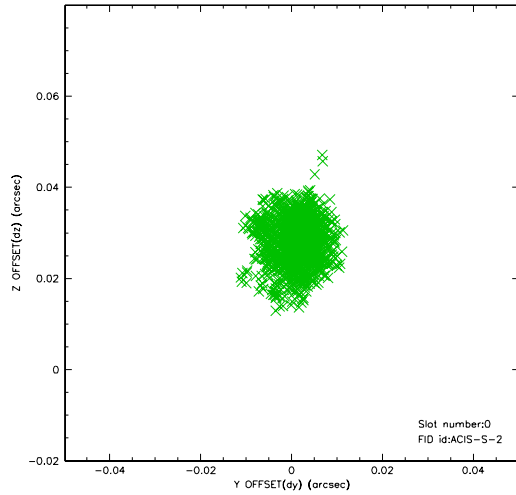


2.4.5 Slot 7

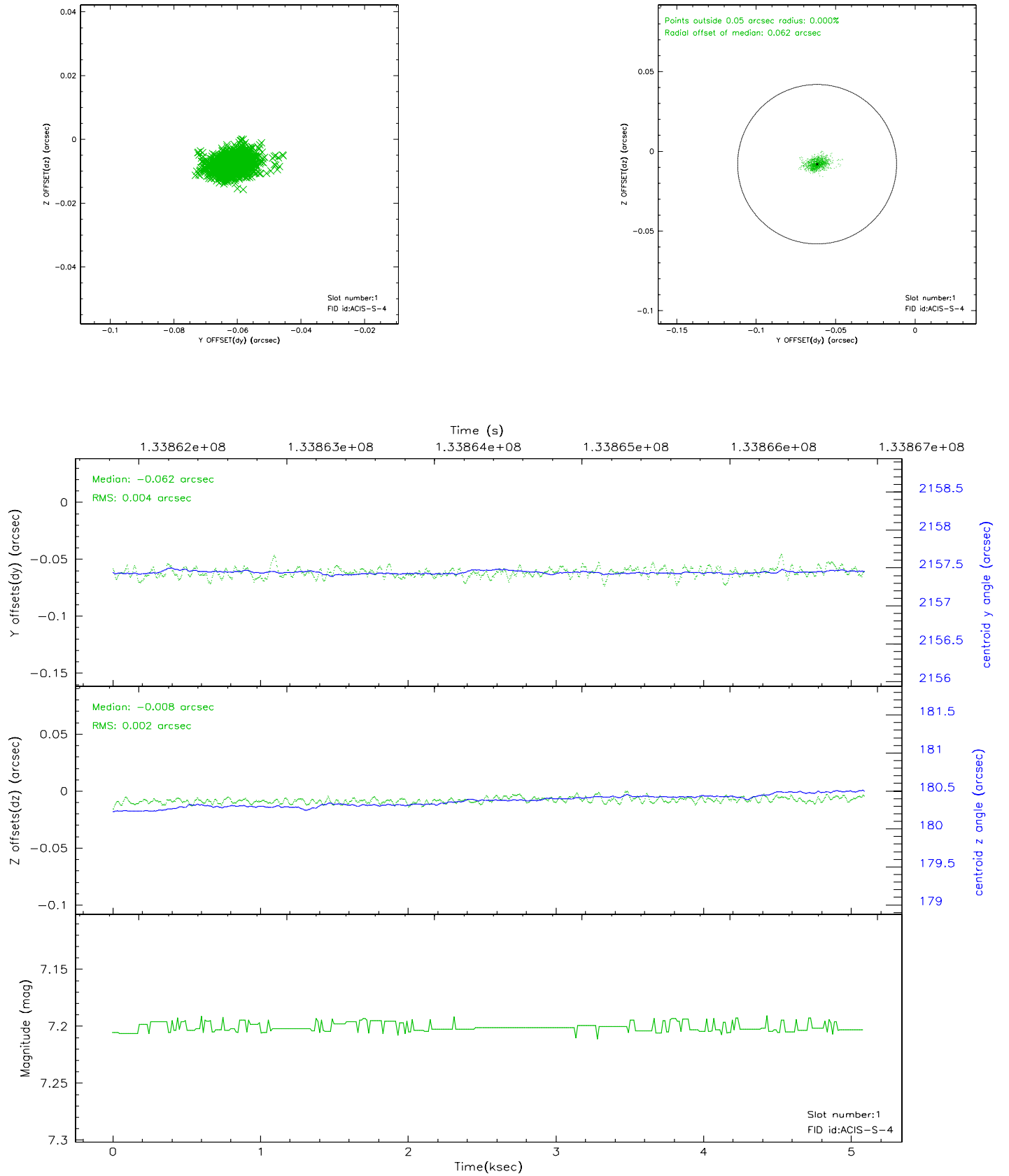


2.5 FID Slots

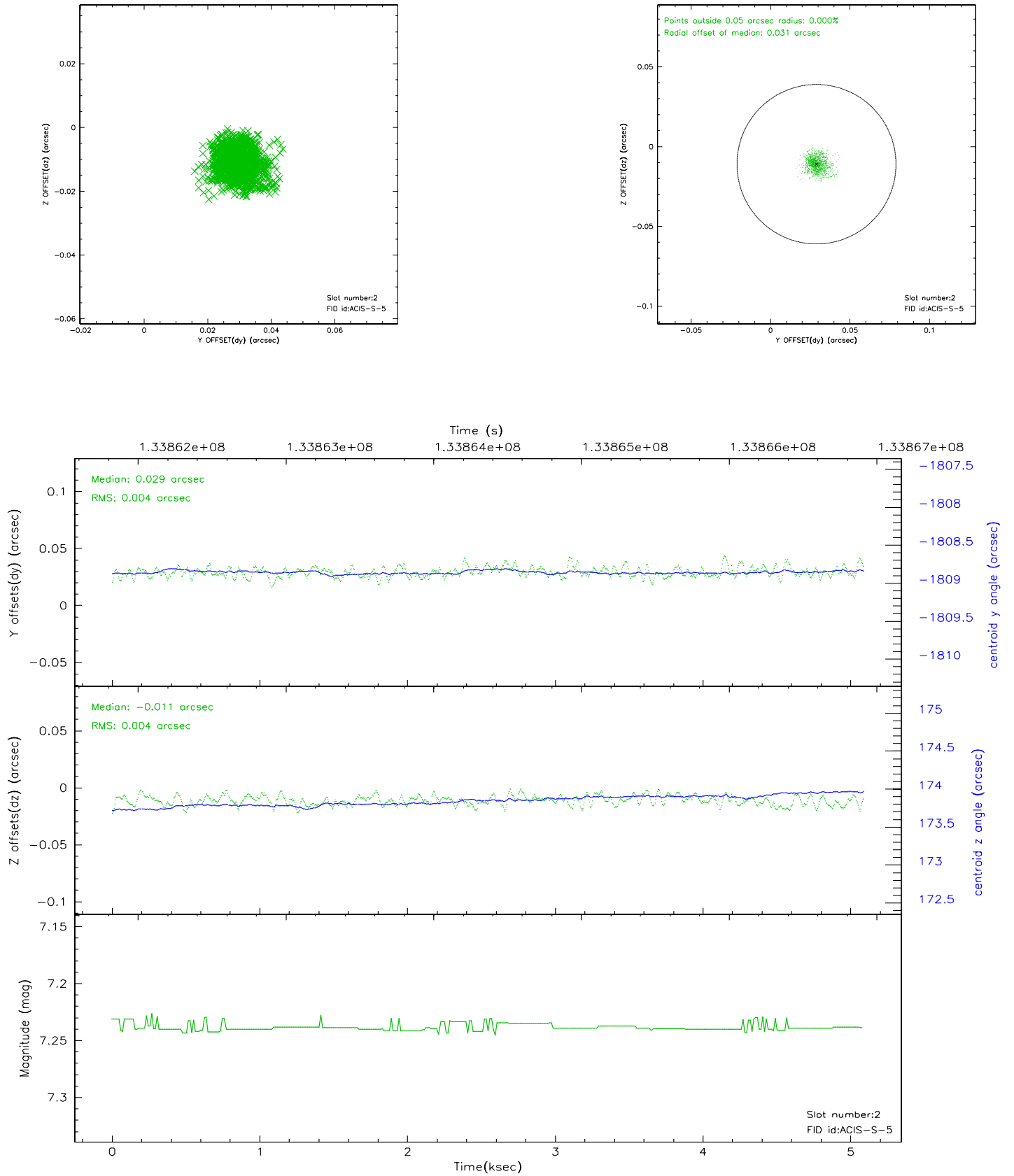
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.09.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.088 |

A.2 Comments

Monitor constraint met.