

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2145 - L2 Version 001
Chandra X-Ray Center

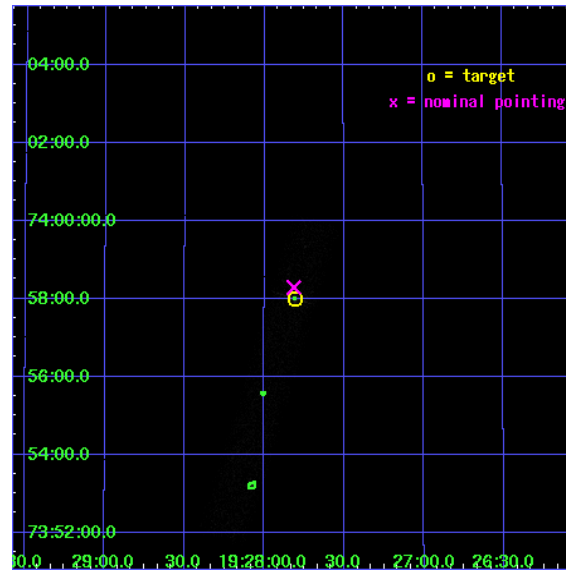
L2 Processing Date : Nov 29 2006

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1 Front

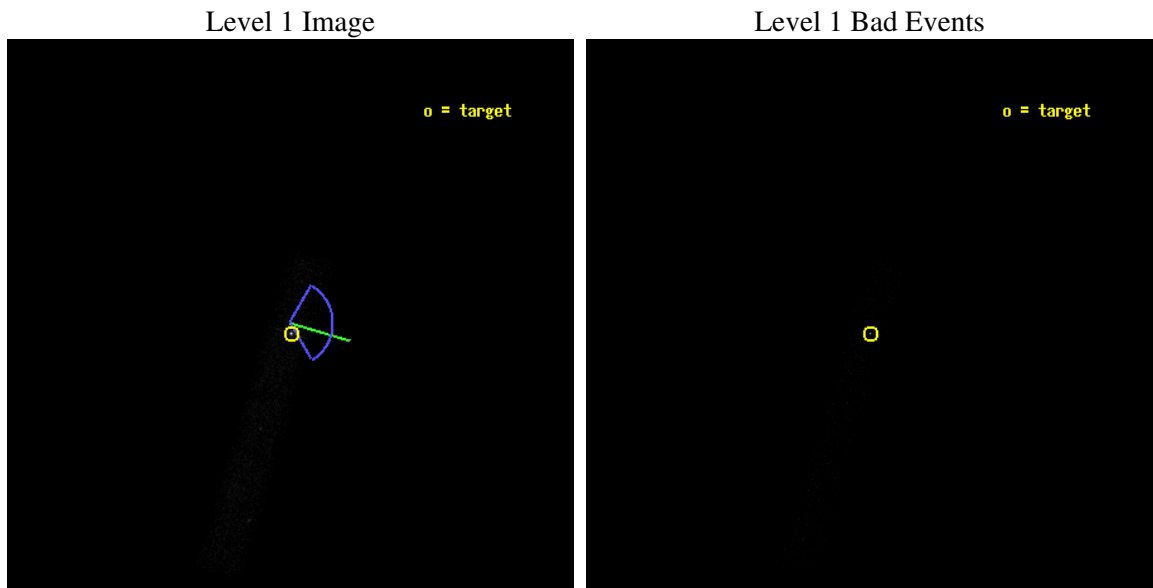
| | |
|----------|--|
| seq_num | 700335 |
| obs_id | 2145 |
| title | AN UNBIASED SURVEY OF X-RAY AND OPTICAL EMISSION FROM EXTENDED RADIO JETS IN AGN |
| observer | Dr. Rita Sambruna |
| object | 1928+738 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 291.952083 |
| dec_targ | 73.967222 |
| ra_nom | 291.95371901606 |
| dec_nom | 73.971738027752 |
| roll_nom | 106.92759424146 |
| revision | 2 |
| ontime | 9253.6001378894 |
| livetime | 8392.5268800013 |
| ontime7 | 9253.6001378894 |
| l2events | 12502 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 2 |
| ascdsver | 7.6.9 |
| caldbver | 3.2.4 |
| date | 2006-11-29T11:58:48 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 9400.000000 |
| ontime | 9254.2225692272 |
| ontime7 | 9254.2225692272 |
| l1events | 19848 |

2.1.4 Events

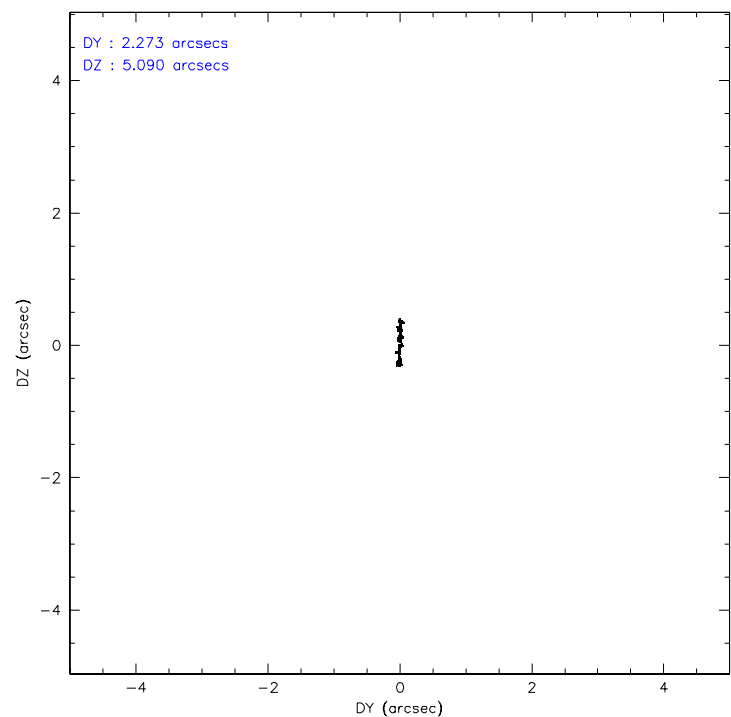
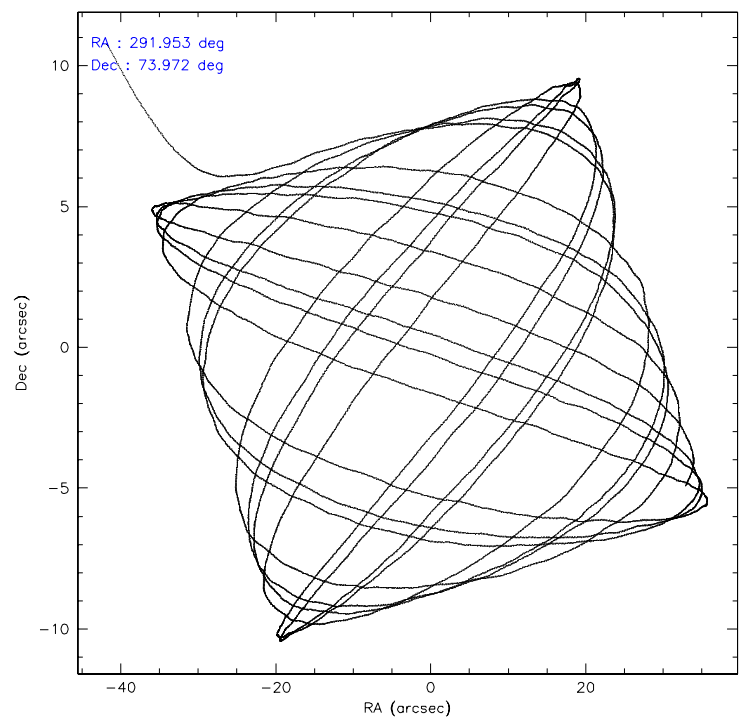
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 19848 |
| rejected events | 6770 |
| rejected % | 34% |

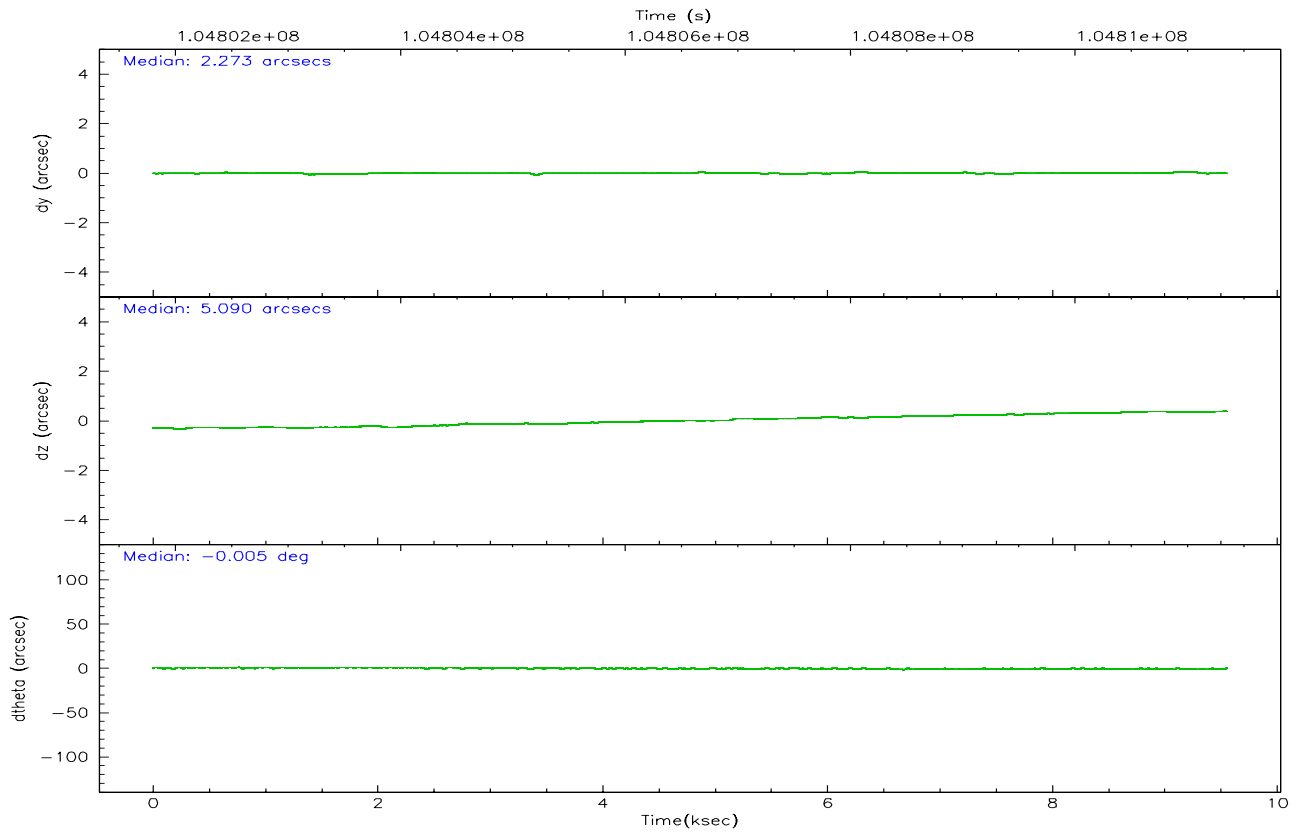
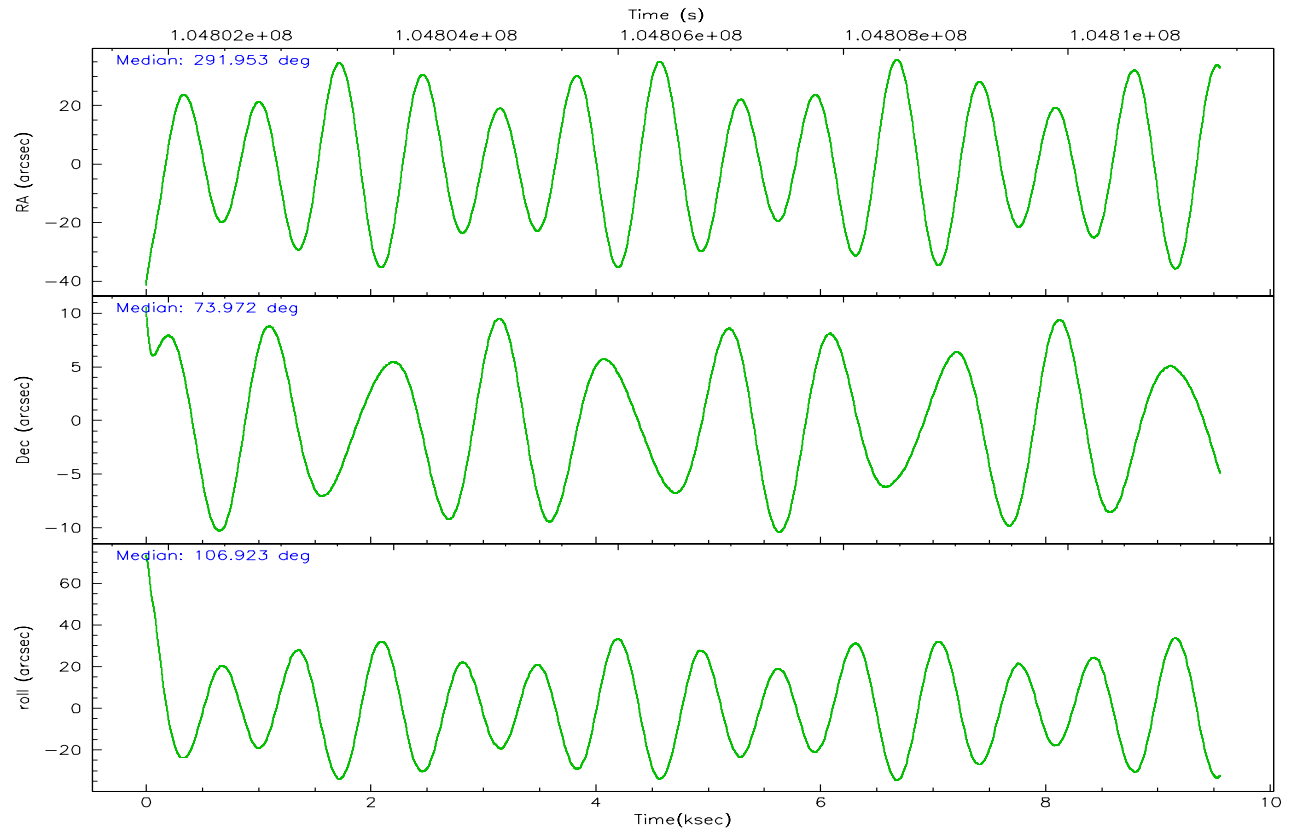
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 2681 |
| | 13% |
| grade 1 events | 76 |
| | 0% |
| grade 2 events | 3223 |
| | 16% |
| grade 3 events | 1476 |
| | 7% |
| grade 4 events | 1484 |
| | 7% |
| grade 5 events | 1067 |
| | 5% |
| grade 6 events | 4215 |
| | 21% |
| grade 7 events | 5626 |
| | 28% |

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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| Pointing RA | 292.026546 | 291.9537190160634 | Subarray requested | 1/8 | 1/8 |
| Pointing Dec | 73.953228 | 73.9717380277518 | Subarray start row | 0 | 449 |
| Pointing Roll | 106.700960 | 106.9275942414627 | Subarray row count | 1024 | 128 |
| Roll angle | 90.000000 | 90.000000 | Alternating exposures requested | N | N |
| Roll tolerance | 59.000000 | 59.000000 | Primary exposure time | 0.000000 | 0.4 |
| Roll constraint allows 180D rotation | N | N | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1425803651734 | | | |
| SIM translation stage offset (mm) | 0 | 0.01005778216563158 | | | |
| Observation start time | 104801954.184000 | 104801107.14135 | | | |
| Observation start date | 2001-04-27T23:38:10 | 2001-04-27T23:25:07 | | | |
| Observation end time | 104811354.184000 | 104812042.86677 | | | |
| Observation end date | 2001-04-28T02:14:50 | 2001-04-28T02:27:22 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



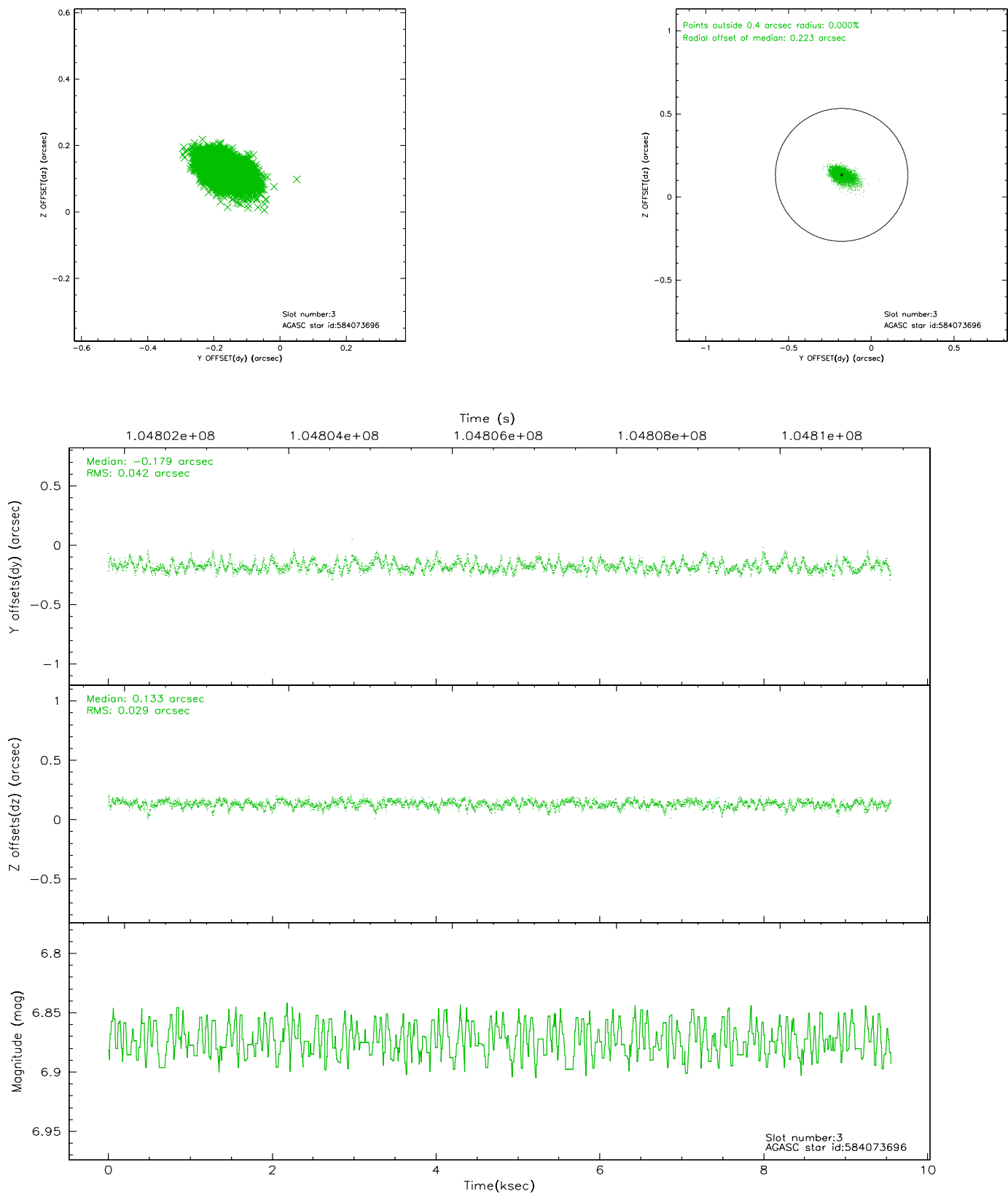


Slot Statistics

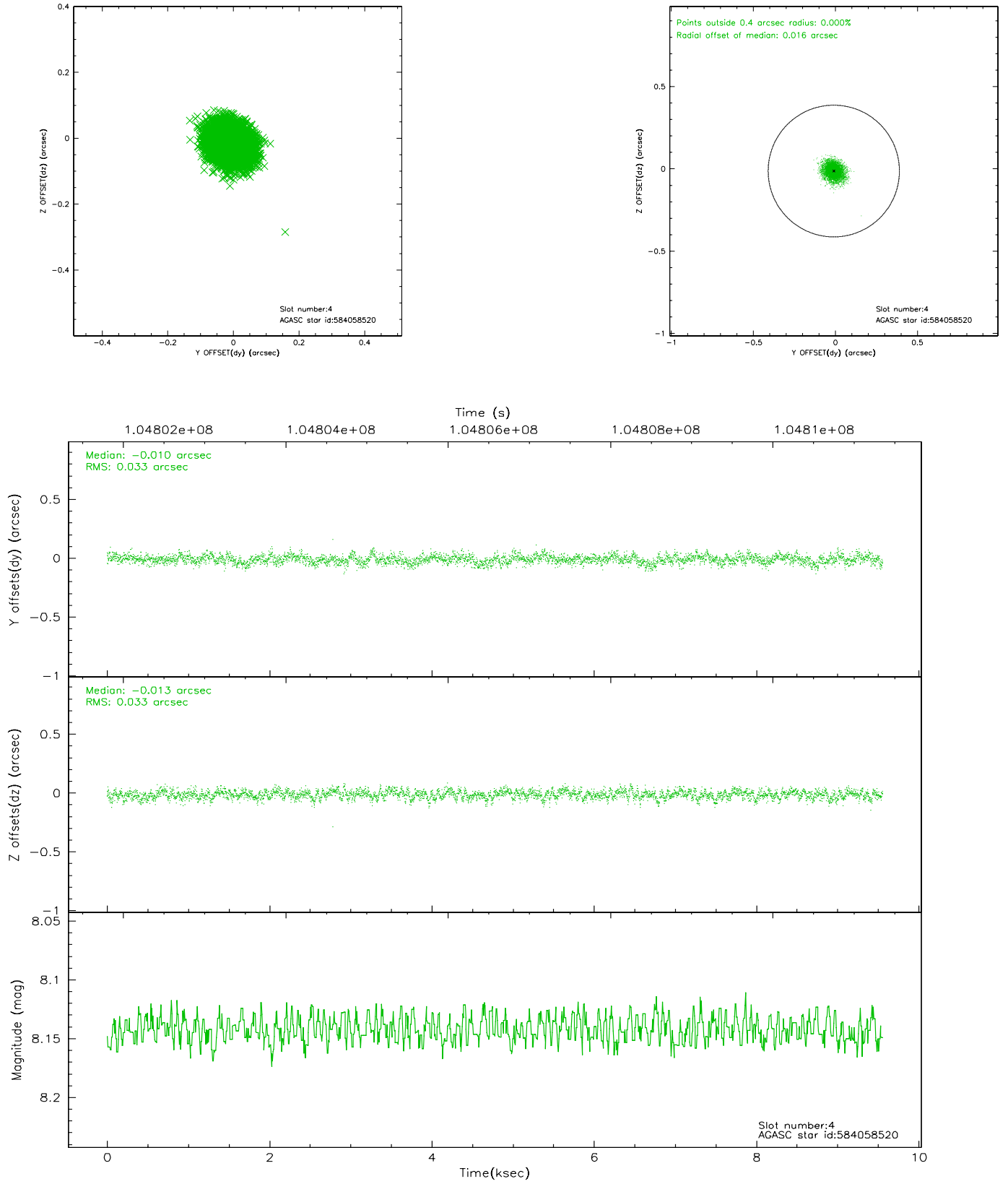
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 2331 | -0.021 | 0.020 | 0.008 | 0.013 | 0.000000 | 0.000000 | -754.87 | -1726.17 |
| 1 | FID | ACIS-S-4 | 7.20 | 2331 | -0.073 | 0.004 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2158.05 | 181.79 |
| 2 | FID | ACIS-S-5 | 7.24 | 2331 | 0.062 | -0.016 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1806.95 | 175.99 |
| 3 | GUIDE | 584073696 | 6.87 | 4663 | -0.179 | 0.133 | 0.052 | 0.092 | 293.792631 | 74.377476 | 995.19 | -2086.09 |
| 4 | GUIDE | 584058520 | 8.14 | 4660 | -0.010 | -0.013 | 0.050 | 0.081 | 292.919697 | 74.241817 | 750.65 | -1137.53 |
| 5 | GUIDE | 584070048 | 8.81 | 4663 | 0.145 | 0.060 | 0.086 | 0.138 | 289.511723 | 74.303845 | 1962.24 | 1967.38 |
| 6 | GUIDE | 584068144 | 9.15 | 4657 | 0.032 | 0.005 | 0.073 | 0.119 | 293.270586 | 73.654716 | -1378.49 | -902.11 |
| 7 | GUIDE | 584070872 | 9.41 | 4659 | 0.010 | -0.183 | 0.075 | 0.127 | 292.547035 | 73.360860 | -2194.78 | 97.32 |

2.4 Star Slots

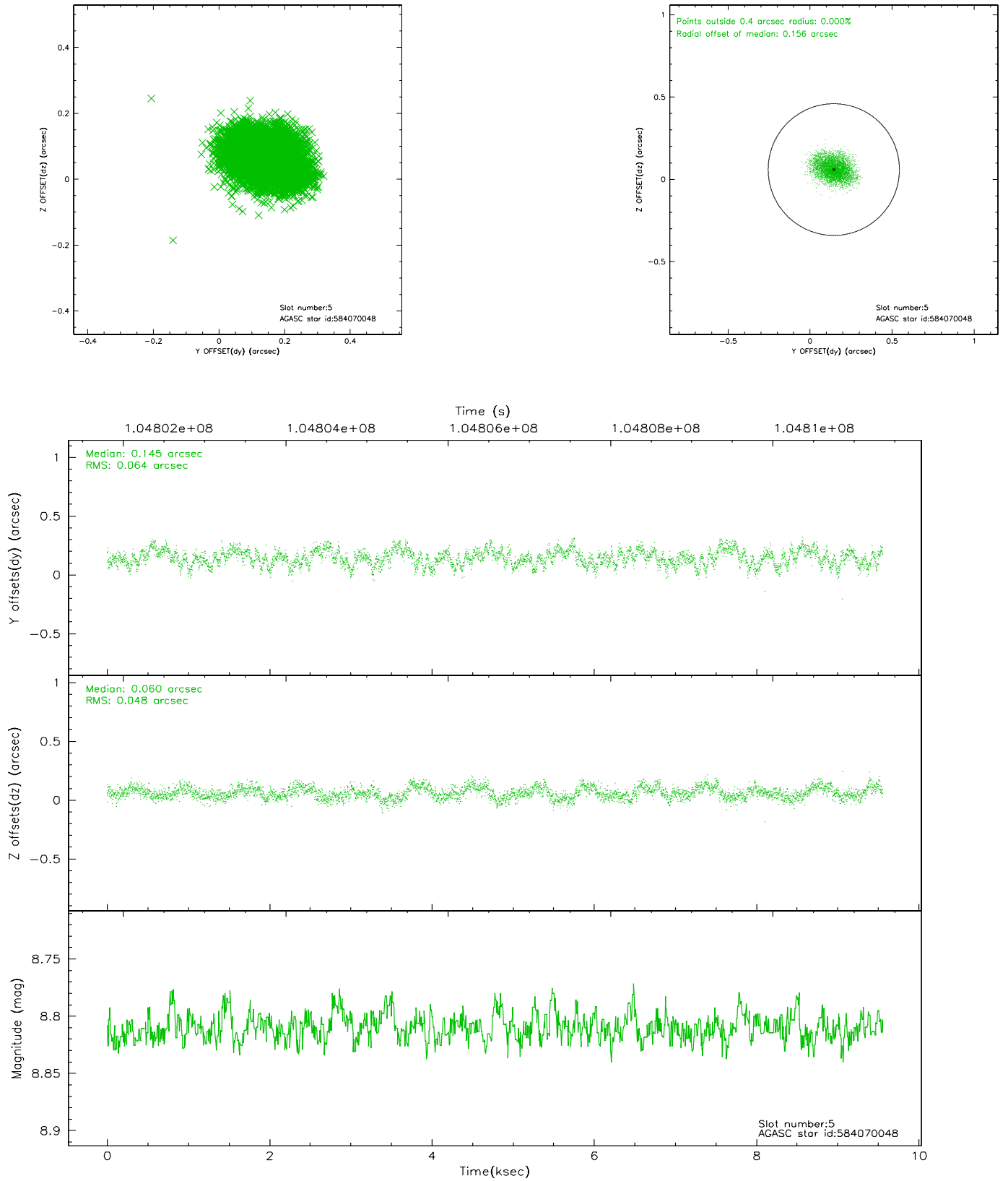
2.4.1 Slot 3



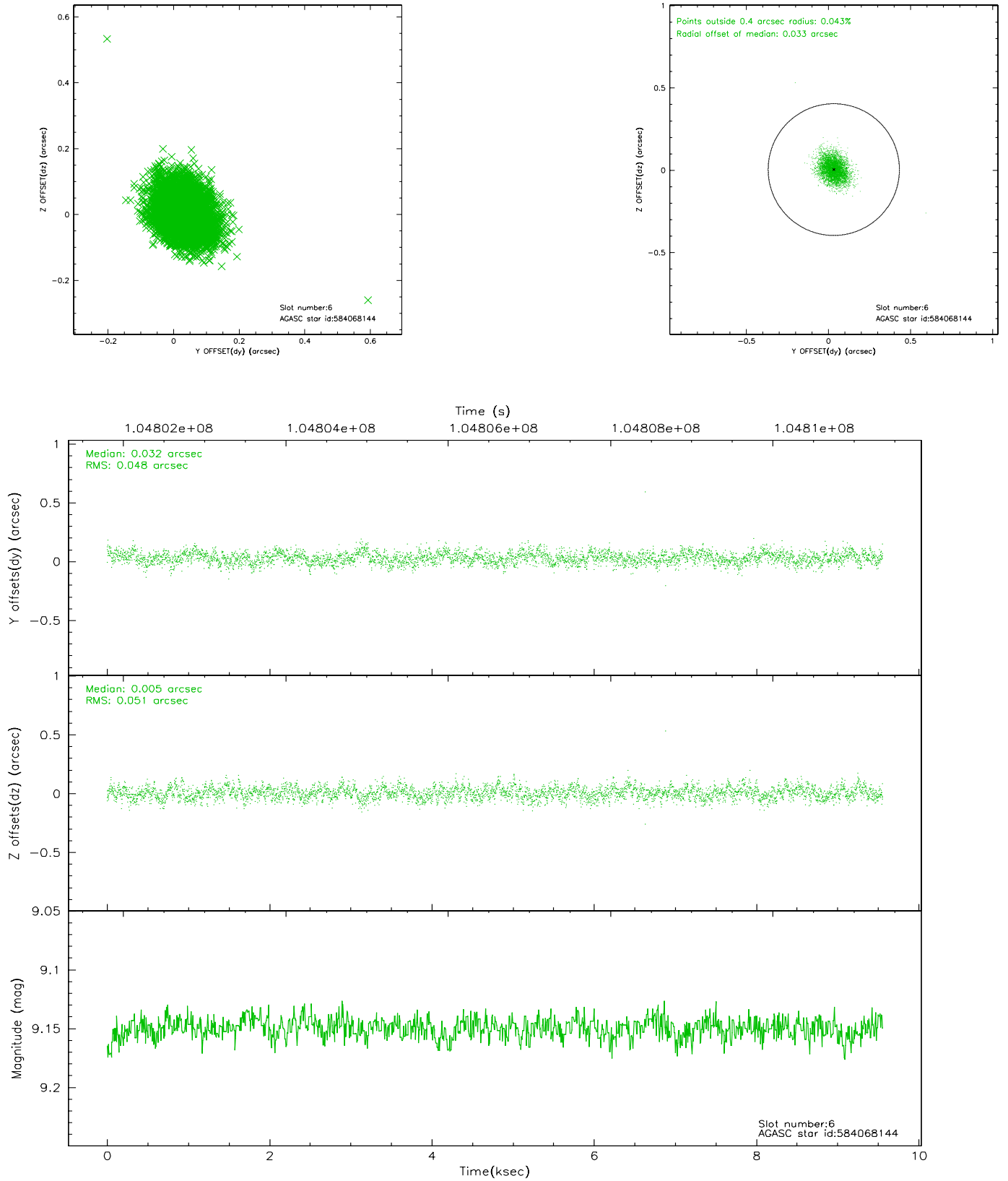
2.4.2 Slot 4



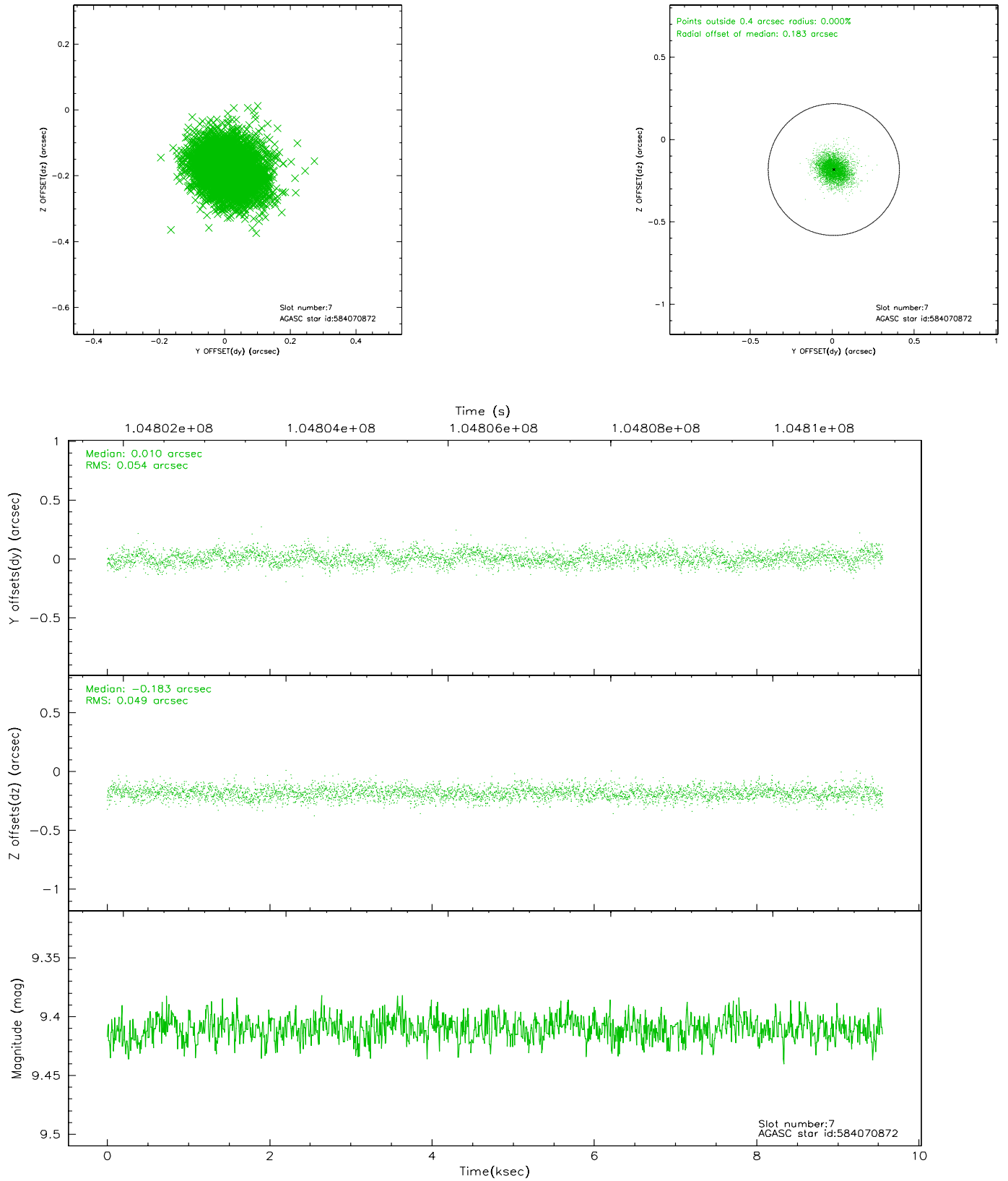
2.4.3 Slot 5



2.4.4 Slot 6

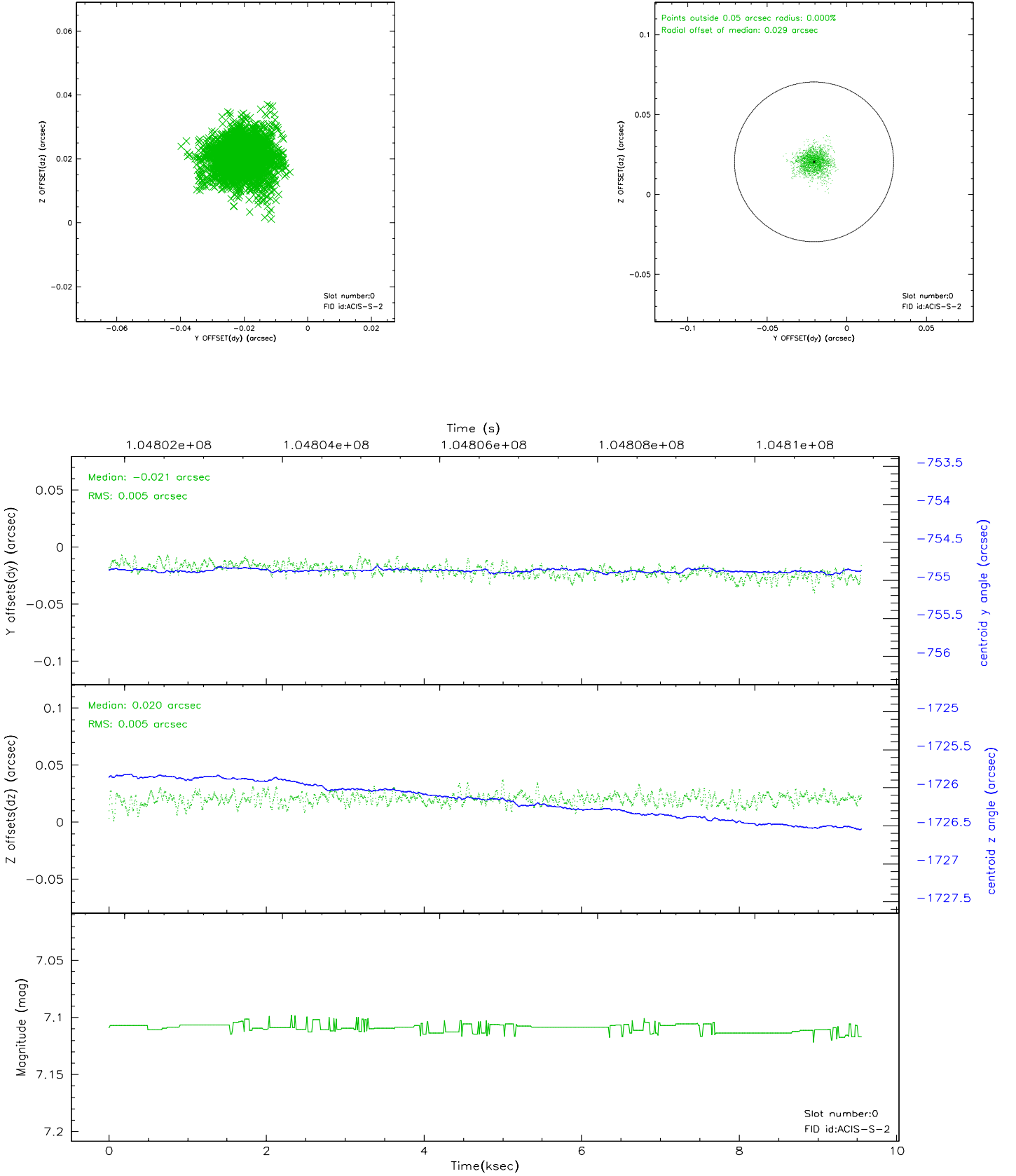


2.4.5 Slot 7

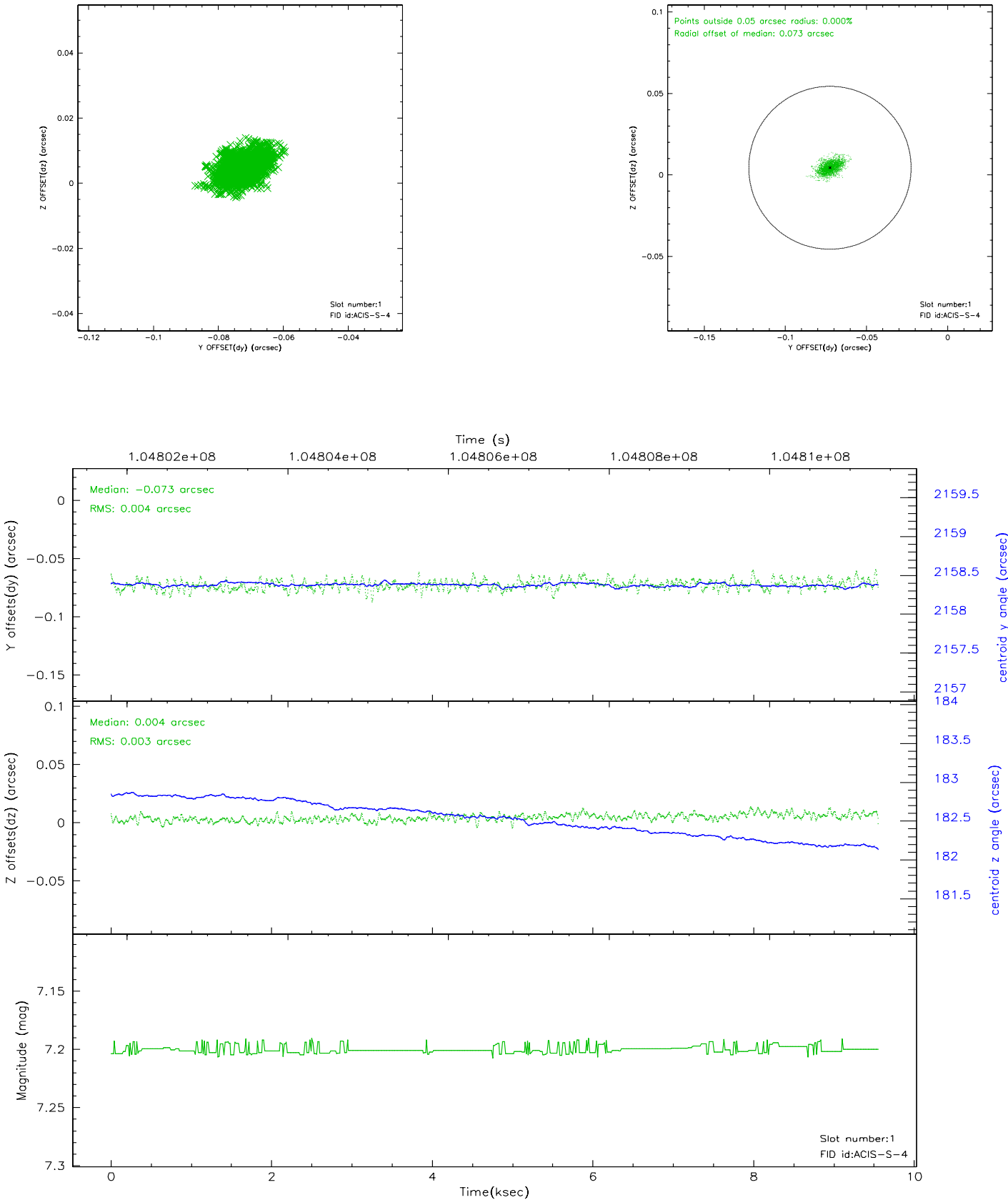


2.5 FID Slots

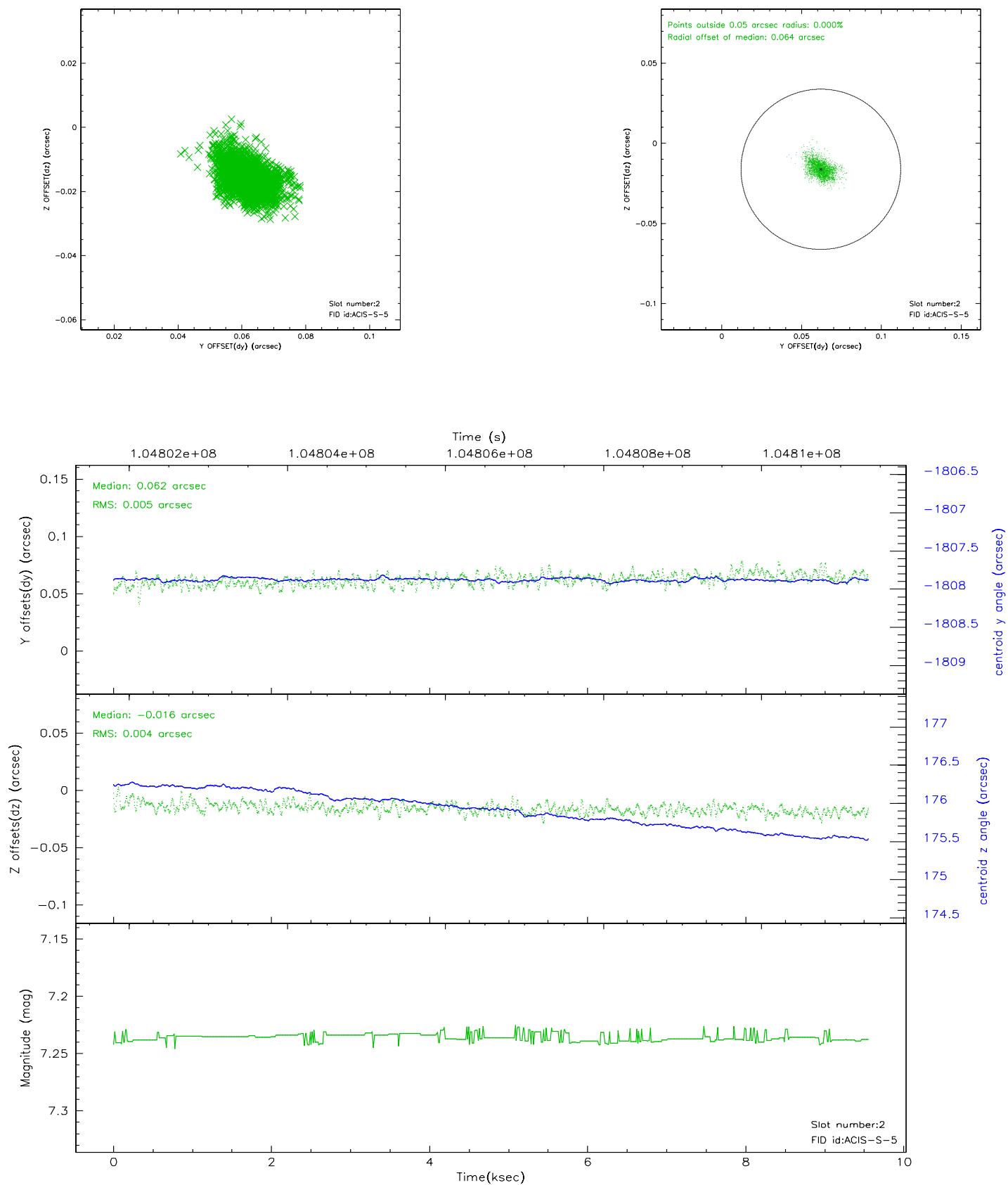
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

5.20 arcmin



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.11.29 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 9.3 |

A.2 Comments

Roll constraint met.