

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 2052 - L2 Version 001
Chandra X-Ray Center

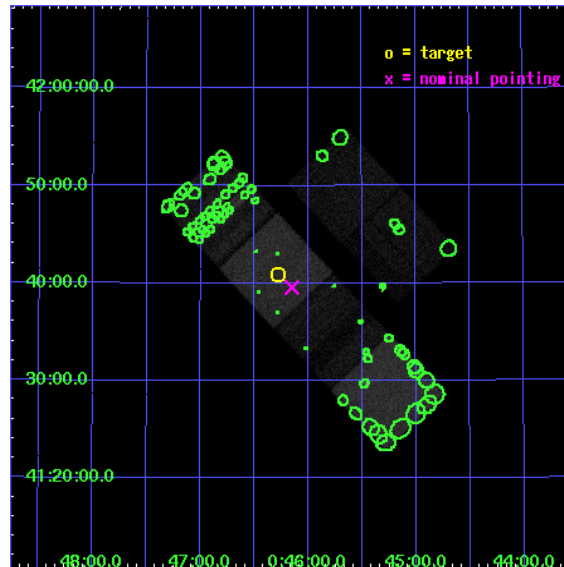
L2 Processing Date : Jun 14 2007

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

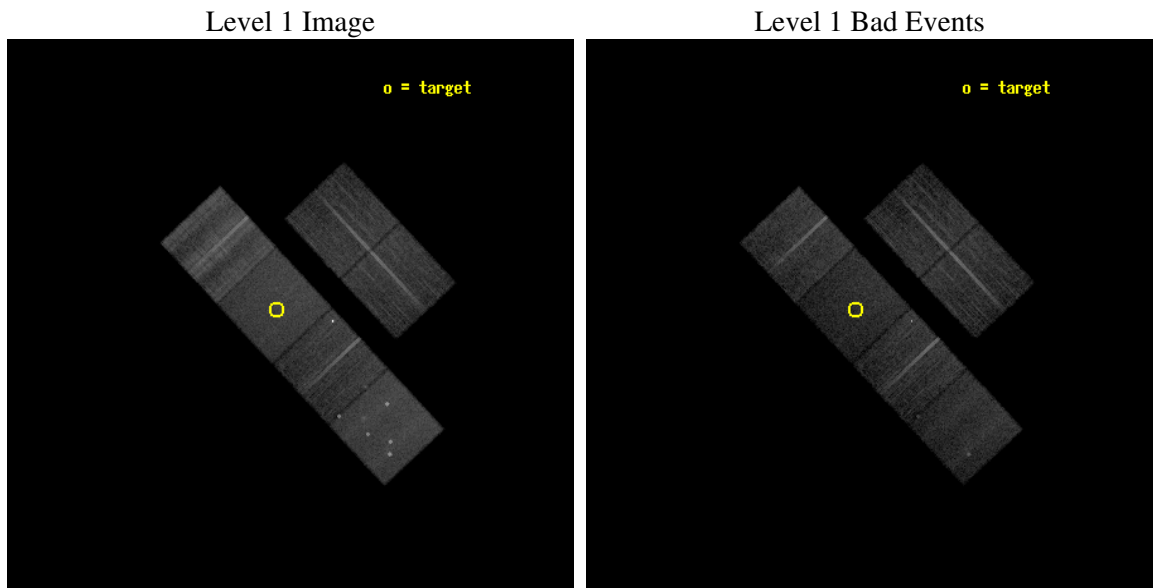
| | |
|----------|--|
| seq_num | 600186 |
| obs_id | 2052 |
| title | 2001: A SPACE CENSUS -- SUPERSOFT X-RAY SOURCES AND OTHER X-RAY SOURCES IN M31 |
| observer | Dr. Rosanne Di Stefano |
| object | M31_3 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 11.569583 |
| dec_targ | 41.681944 |
| ra_nom | 11.538022691553 |
| dec_nom | 41.659472890784 |
| roll_nom | 226.877446676 |
| revision | 2 |
| ontime | 14051.200013086 |
| livetime | 13873.275257904 |
| ontime2 | 14051.200013086 |
| ontime3 | 14051.200013086 |
| ontime5 | 14051.200013086 |
| ontime6 | 14051.200013086 |
| ontime7 | 14051.200013086 |
| ontime8 | 14051.200013086 |
| l2events | 192630 |



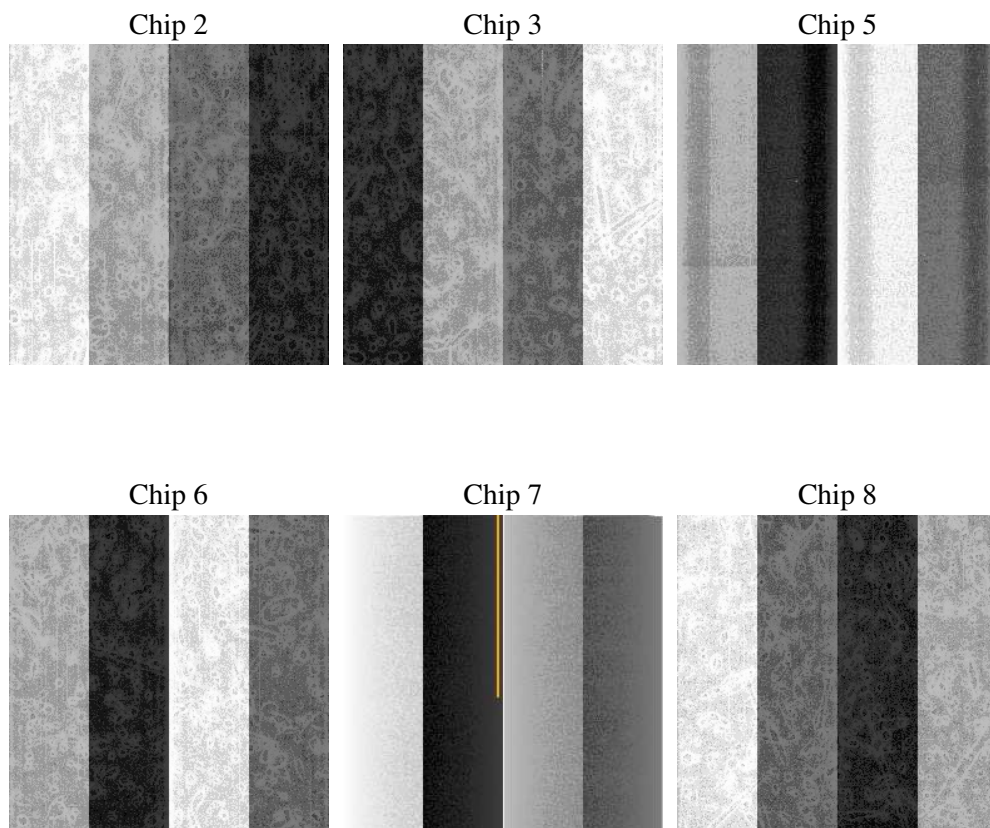
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.10 |
| caldbver | 3.4.0 |
| date | 2007-06-14T10:10:44 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 14000.000000 |
| ontime | 14051.200013086 |
| ontime2 | 14051.200013086 |
| ontime3 | 14051.200013086 |
| ontime5 | 14051.200013086 |
| ontime6 | 14051.200013086 |
| ontime7 | 14051.200013086 |
| ontime8 | 14051.200013086 |
| l1events | 703722 |

2.1.4 Events

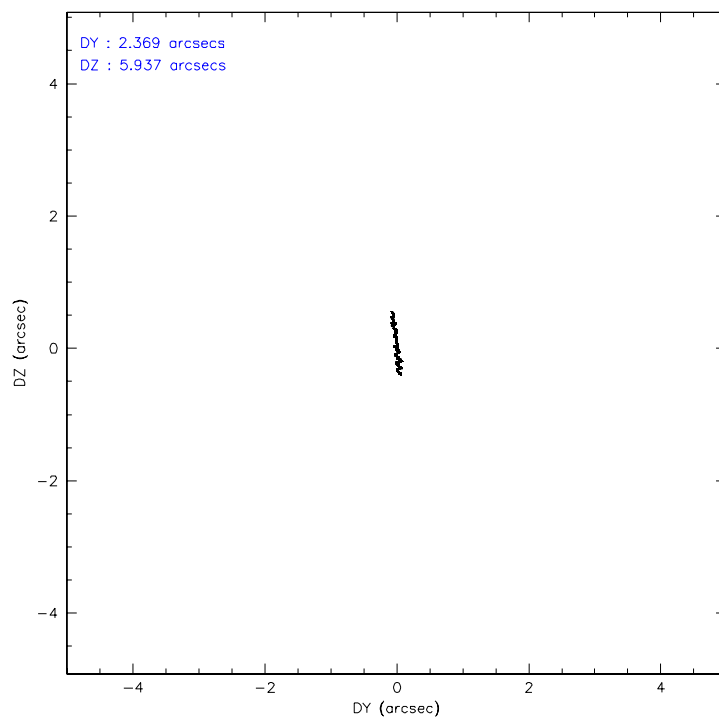
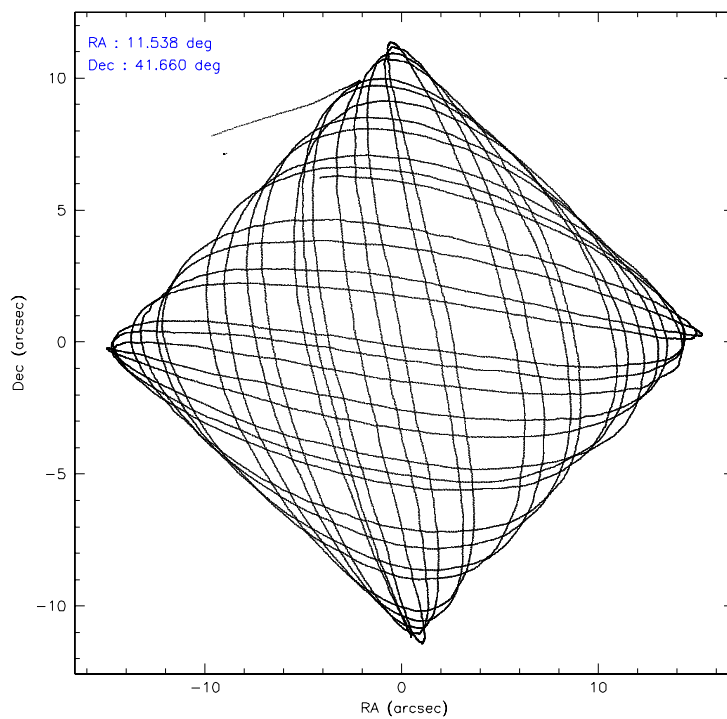
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|--------|--------|--------|--------|
| level 1 events | 99001 | 96289 | 130783 | 106857 | 113213 | 157579 |
| rejected events | 82484 | 79890 | 65309 | 79932 | 61440 | 90938 |
| rejected % | 83% | 82% | 49% | 74% | 54% | 57% |

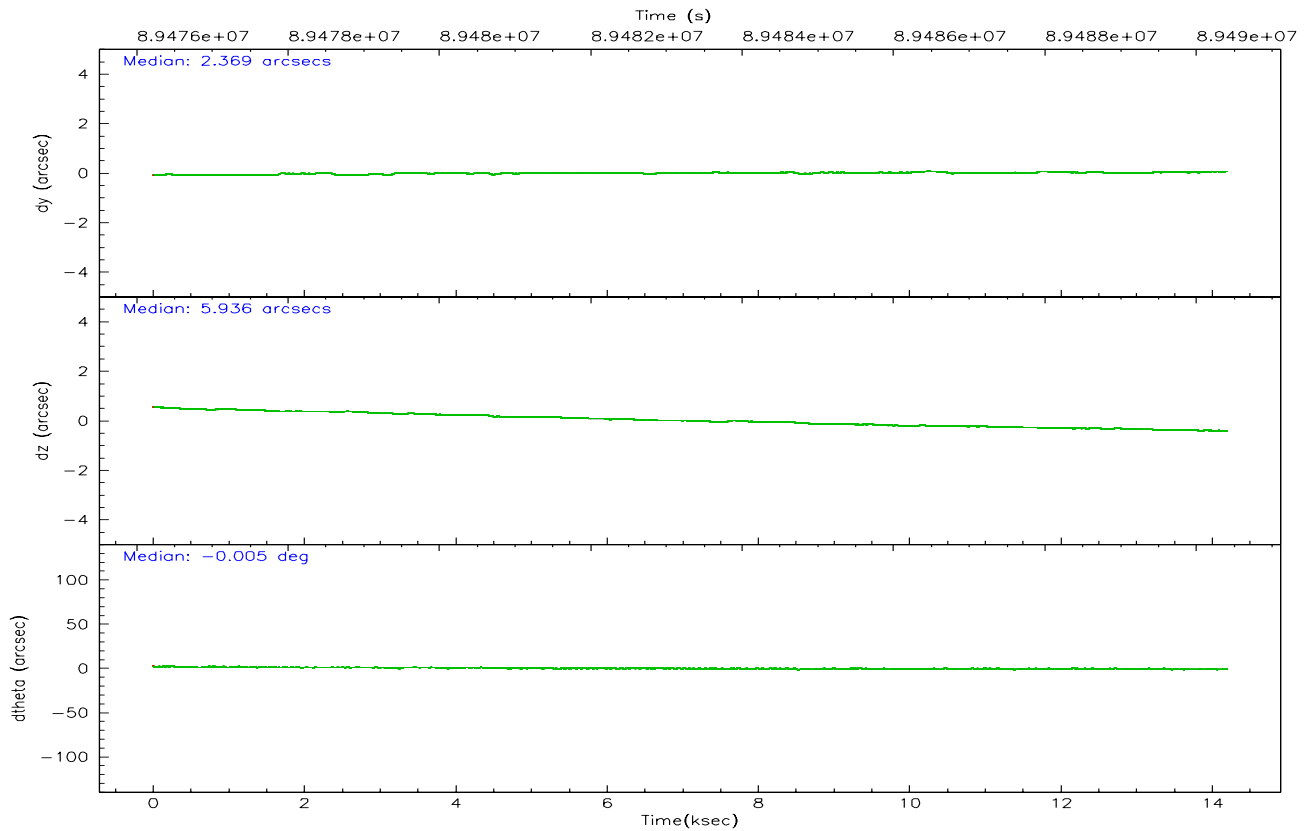
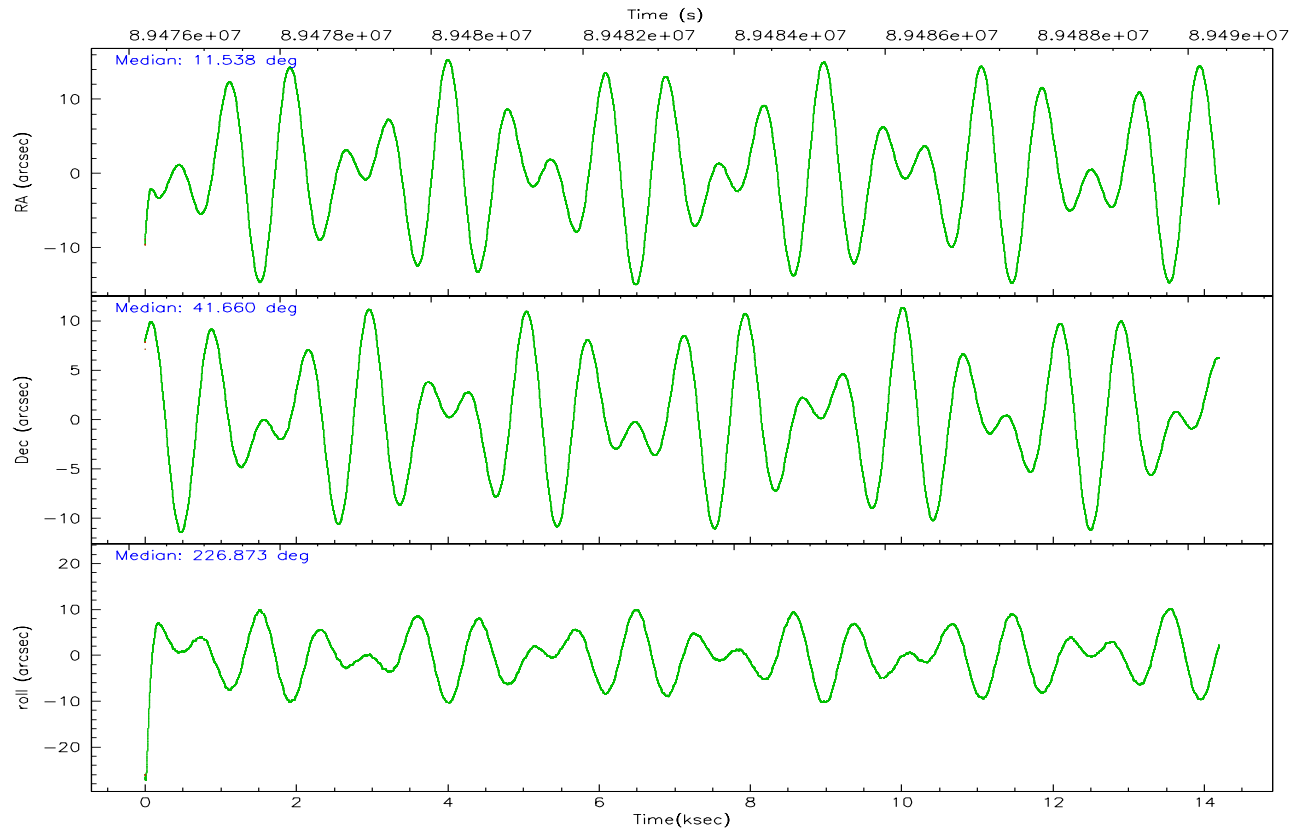
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 7436 | 6853 | 10826 | 14752 | 4954 | 24623 |
| | 7% | 7% | 8% | 13% | 4% | 15% |
| grade 1 events | 64 | 52 | 272 | 575 | 119 | 162 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 4077 | 4563 | 18404 | 5707 | 10193 | 10154 |
| | 4% | 4% | 14% | 5% | 9% | 6% |
| grade 3 events | 893 | 1001 | 3234 | 1441 | 4598 | 10703 |
| | 0% | 1% | 2% | 1% | 4% | 6% |
| grade 4 events | 1171 | 1016 | 3156 | 1481 | 4544 | 9454 |
| | 1% | 1% | 2% | 1% | 4% | 5% |
| grade 5 events | 2837 | 3014 | 9408 | 3634 | 10263 | 4536 |
| | 2% | 3% | 7% | 3% | 9% | 2% |
| grade 6 events | 2946 | 2971 | 29897 | 3556 | 27502 | 11788 |
| | 2% | 3% | 22% | 3% | 24% | 7% |
| grade 7 events | 79577 | 76819 | 55586 | 75711 | 51040 | 86159 |
| | 80% | 79% | 42% | 70% | 45% | 54% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| 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 |
| Pointing RA | 11.546050 | 11.53802269155313 | Subarray requested | NONE | NONE |
| Pointing Dec | 41.686138 | 41.65947289078447 | Alternating exposures requested | N | N |
| Pointing Roll | 226.715505 | 226.877446676 | Primary exposure time | 0.000000 | 3.2 |
| 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 | 89476411.184000 | 89475401.364682 | | | |
| Observation start date | 2000-11-01T14:32:27 | 2000-11-01T14:16:41 | | | |
| Observation end time | 89490411.184000 | 89490940.87776799 | | | |
| Observation end date | 2000-11-01T18:25:47 | 2000-11-01T18:35:40 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



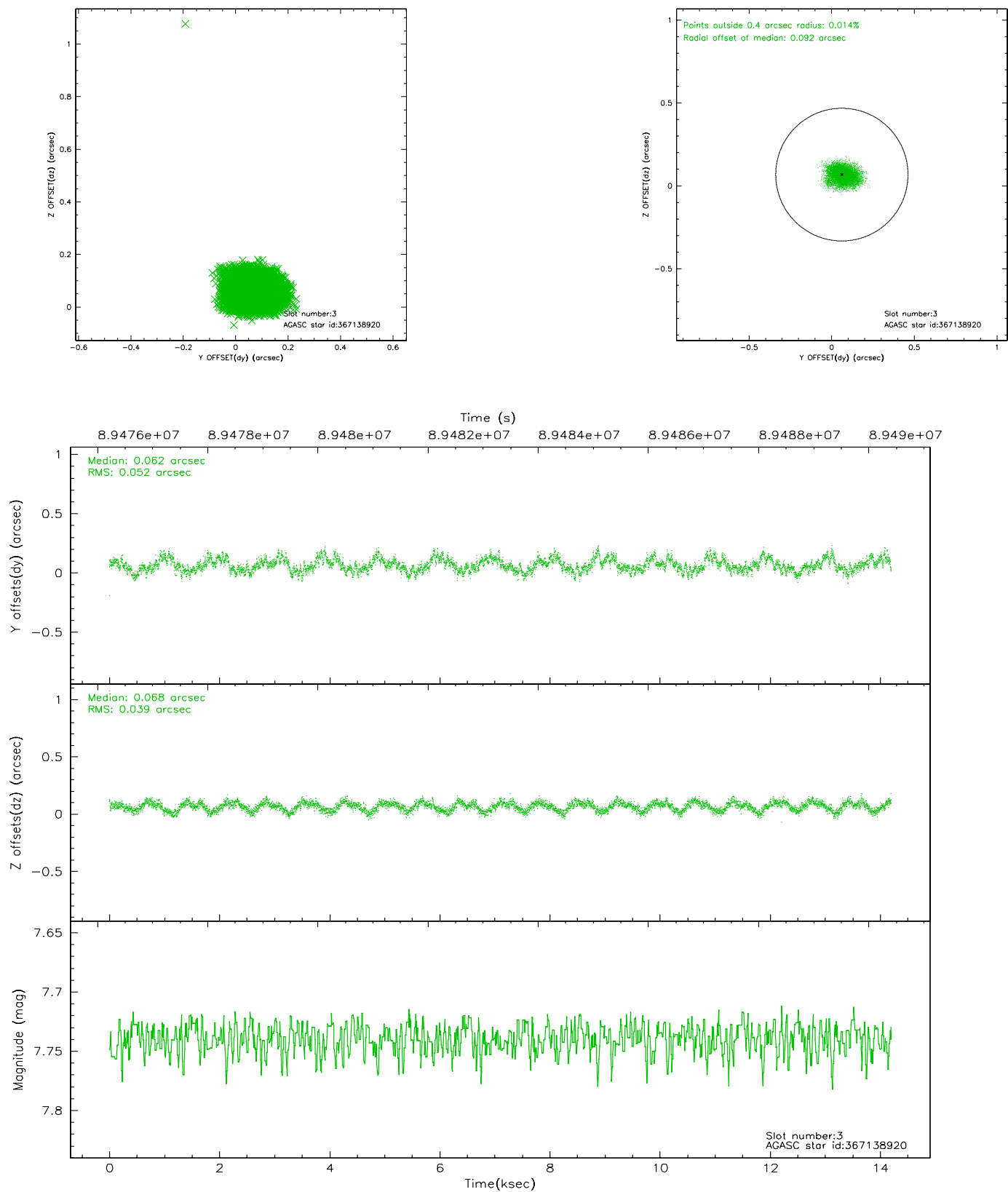


Slot Statistics

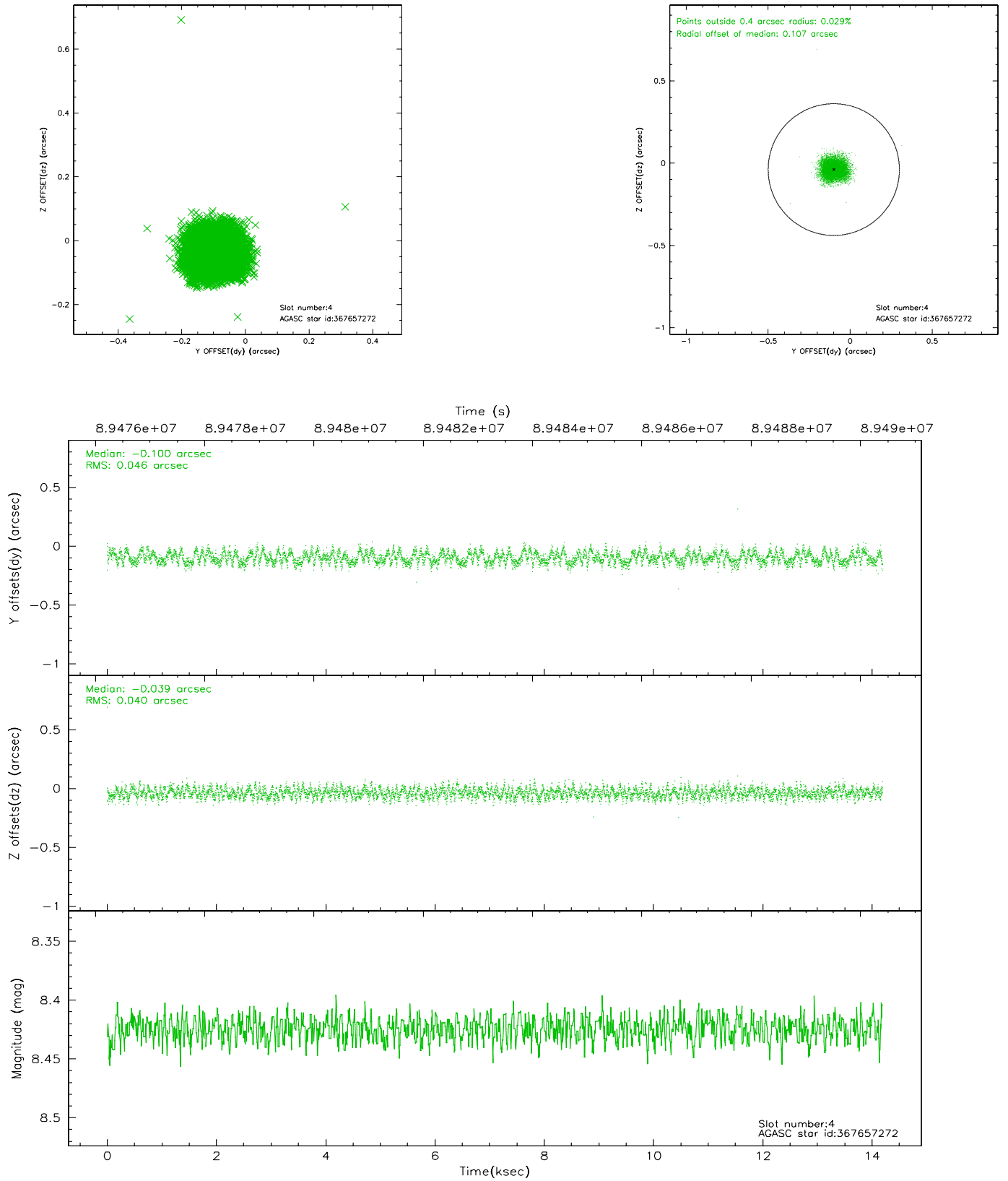
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.12 | 3462 | -0.035 | 0.016 | 0.008 | 0.014 | 0.000000 | 0.000000 | -755.00 | -1727.05 |
| 1 | FID | ACIS-S-4 | 7.21 | 3462 | -0.044 | 0.012 | 0.007 | 0.014 | 0.000000 | 0.000000 | 2158.09 | 181.14 |
| 2 | FID | ACIS-S-5 | 7.24 | 3463 | 0.048 | -0.020 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1807.36 | 175.09 |
| 3 | GUIDE | 367138920 | 7.74 | 6924 | 0.062 | 0.068 | 0.069 | 0.111 | 11.513485 | 40.808909 | 2360.25 | 2101.69 |
| 4 | GUIDE | 367657272 | 8.42 | 6923 | -0.100 | -0.039 | 0.065 | 0.100 | 11.834471 | 41.298907 | 479.70 | 1523.70 |
| 5 | GUIDE | 367788576 | 8.53 | 6925 | 0.011 | -0.025 | 0.070 | 0.120 | 12.616419 | 41.730235 | -2099.75 | 1973.00 |
| 6 | GUIDE | 367674552 | 8.84 | 6925 | 0.107 | -0.038 | 0.063 | 0.106 | 11.016238 | 41.570845 | 1277.71 | -756.17 |
| 7 | GUIDE | 367670520 | 9.25 | 6918 | -0.081 | 0.041 | 0.088 | 0.144 | 11.265516 | 42.371946 | -1285.79 | -2236.27 |

2.4 Star Slots

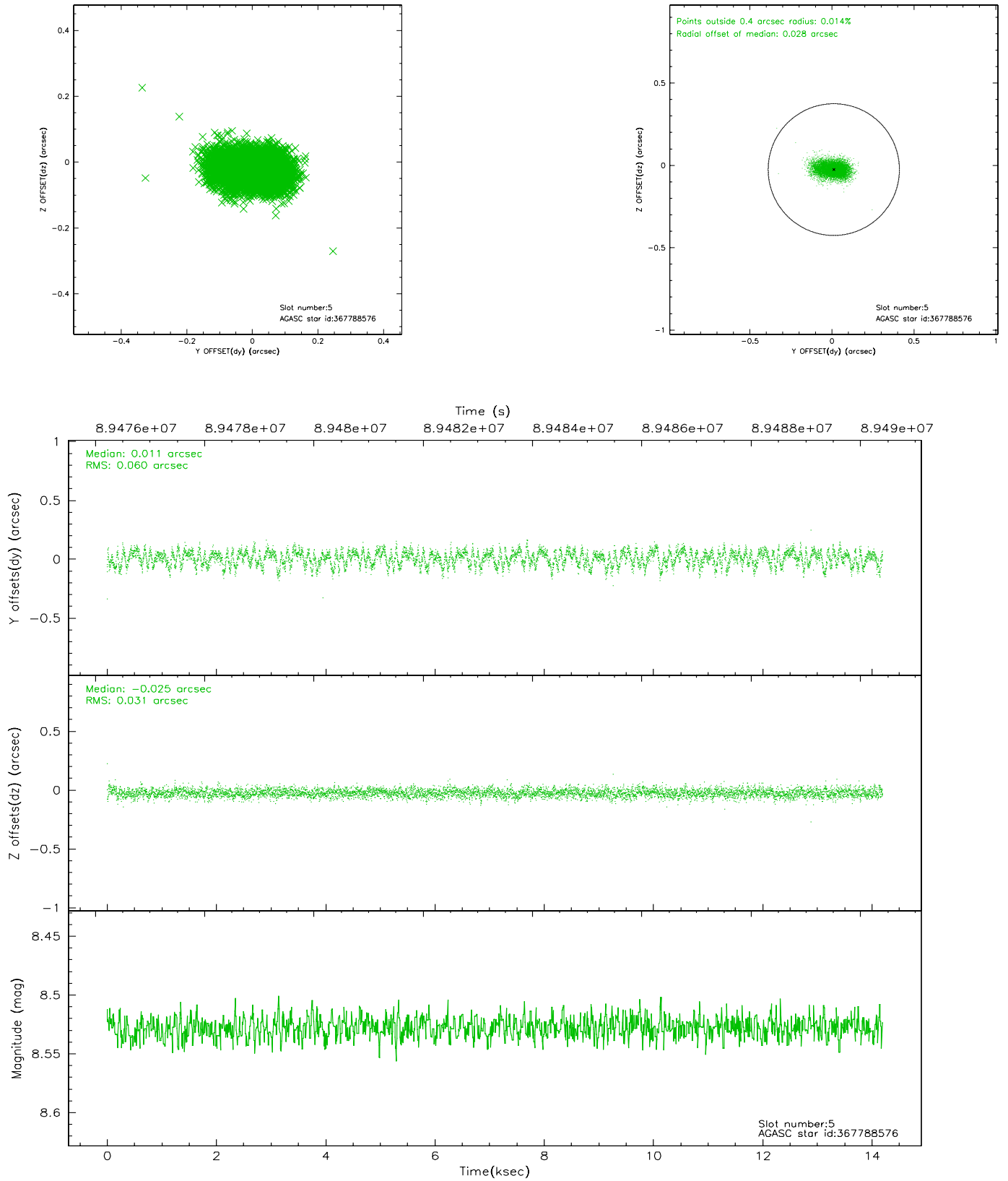
2.4.1 Slot 3



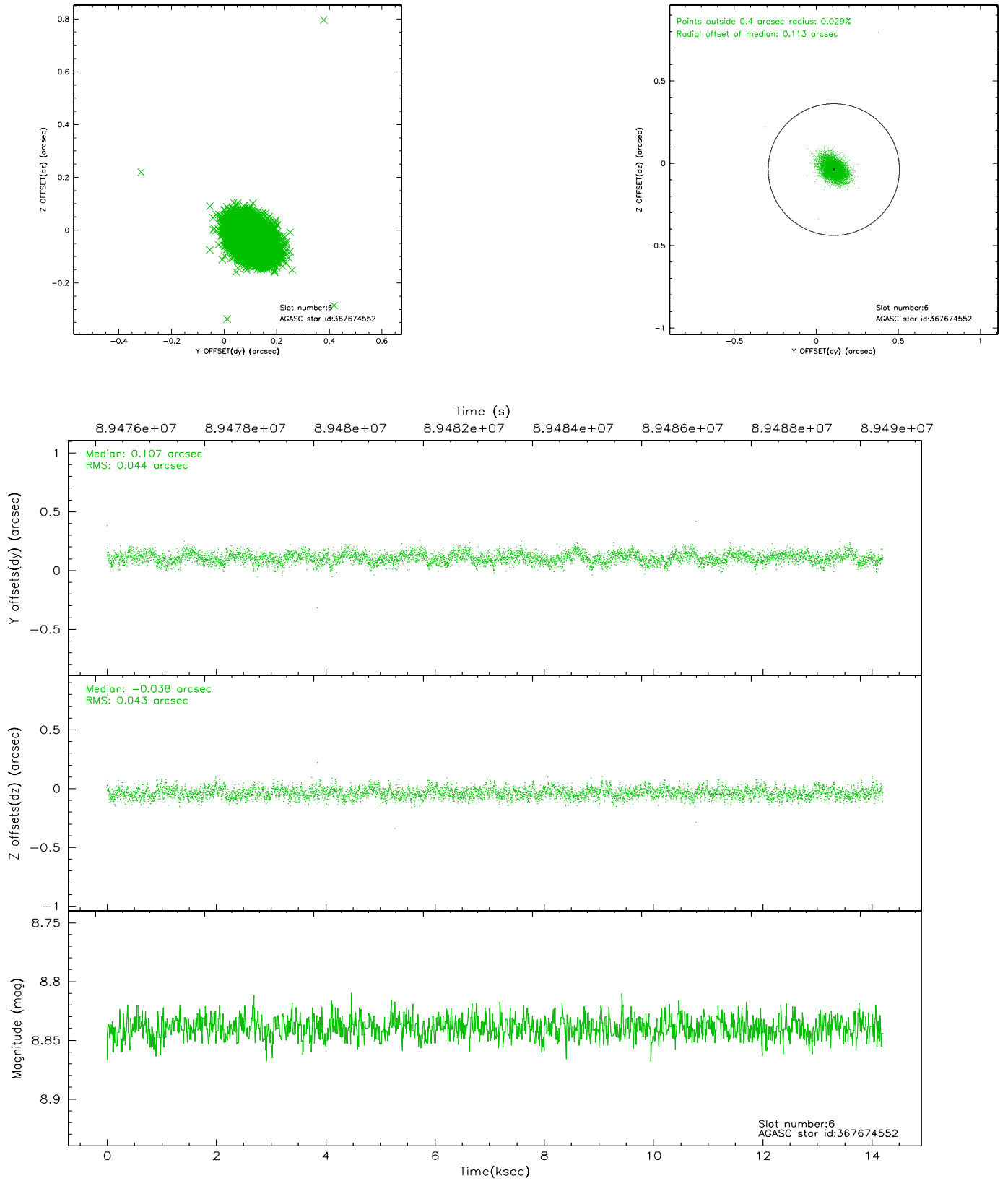
2.4.2 Slot 4



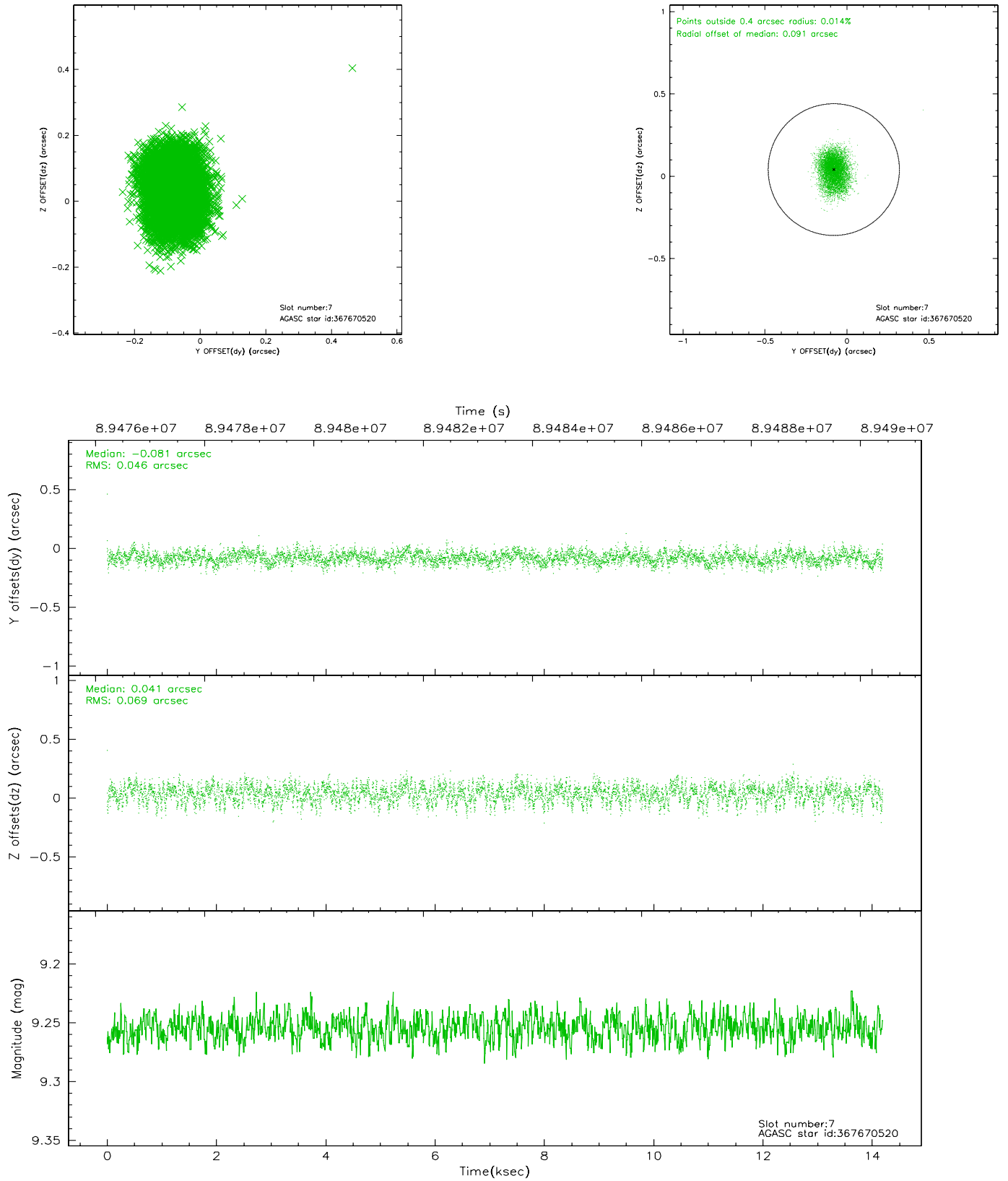
2.4.3 Slot 5



2.4.4 Slot 6

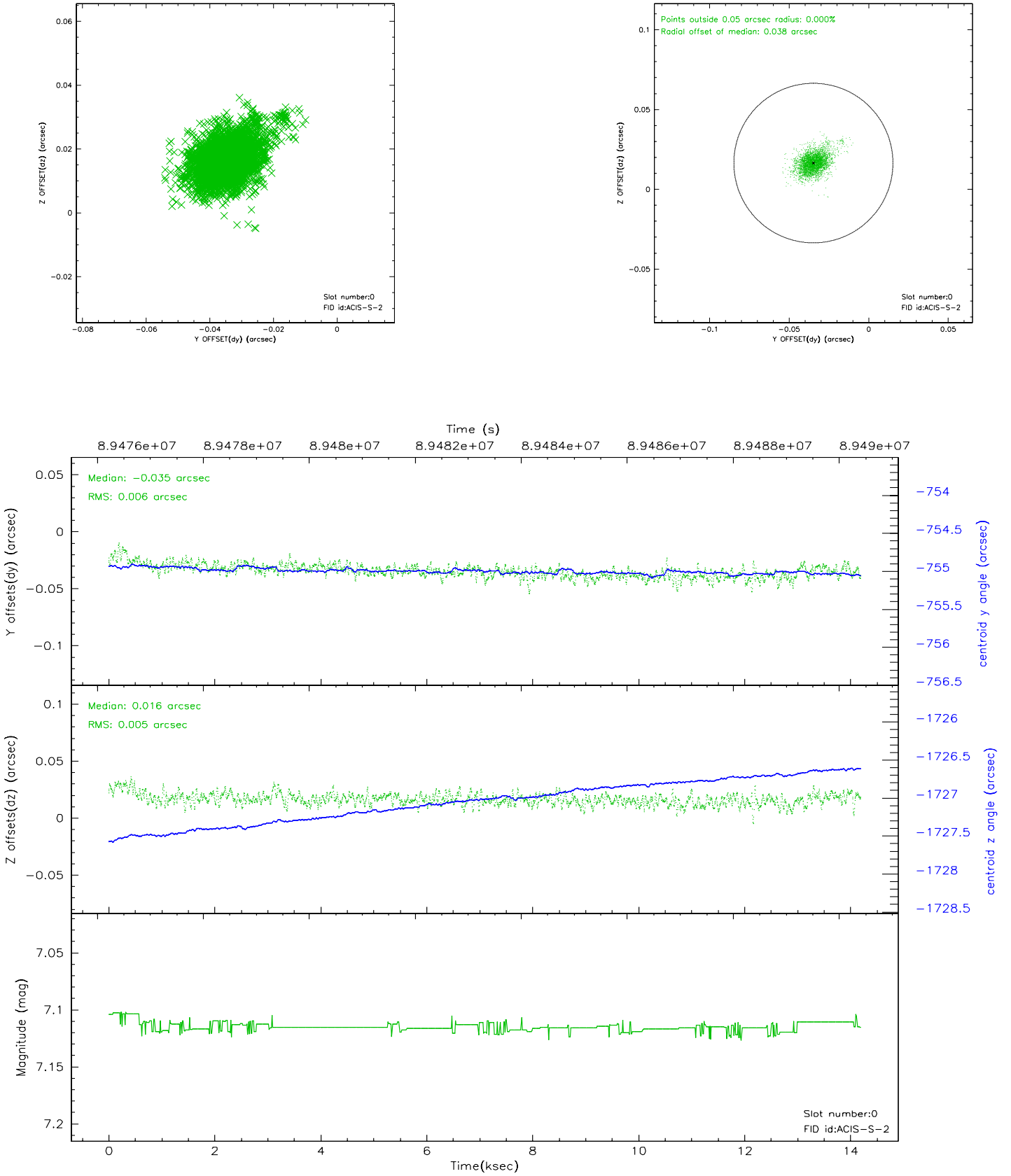


2.4.5 Slot 7

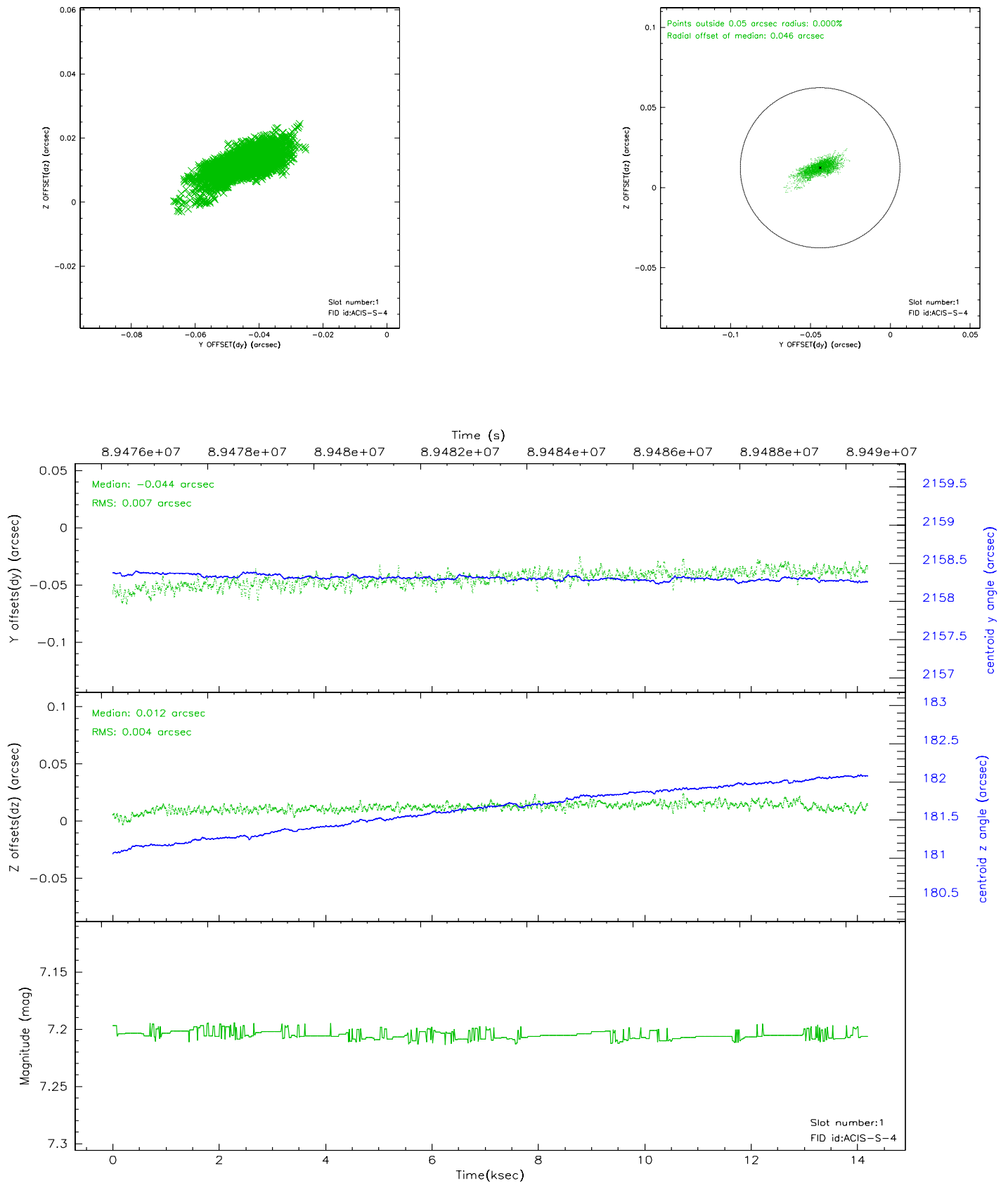


2.5 FID Slots

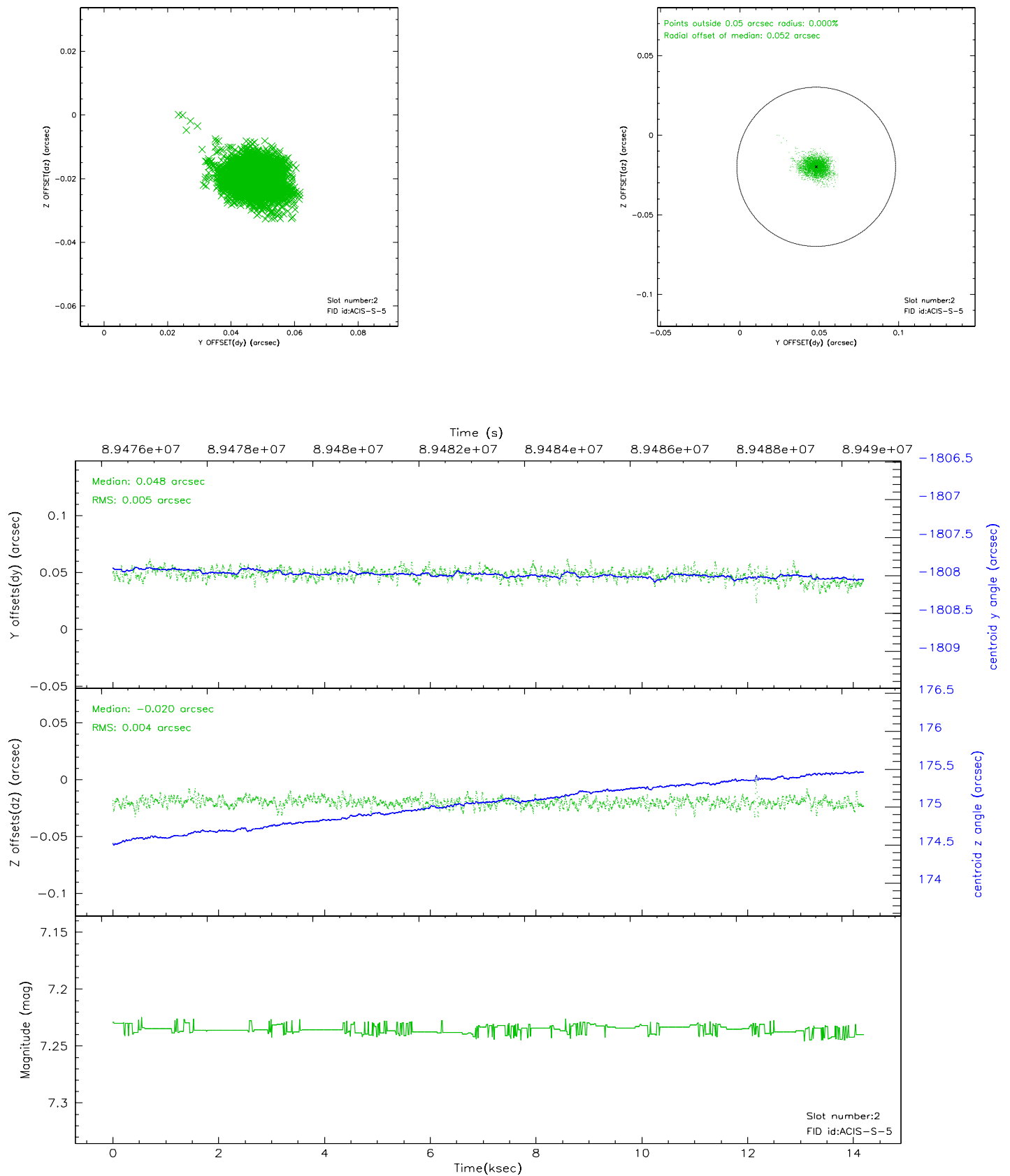
2.5.1 Slot 0



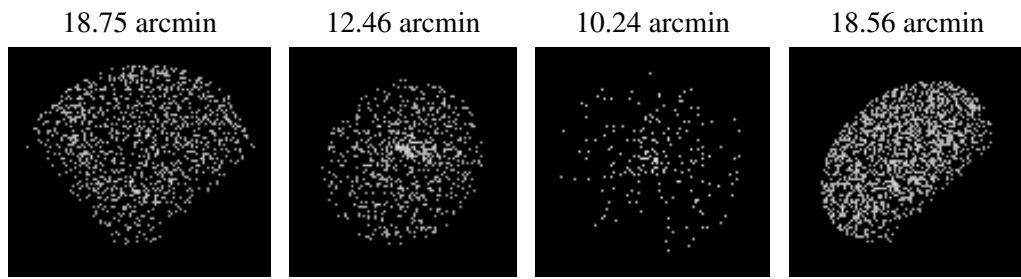
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2007.06.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 14.054 |

A.2 Comments