

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4919 - L2 Version 001
Chandra X-Ray Center

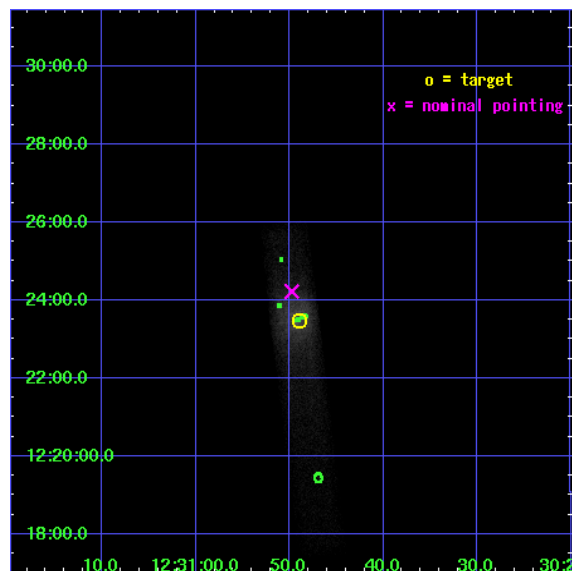
L2 Processing Date : Jun 2 2006

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1 Front

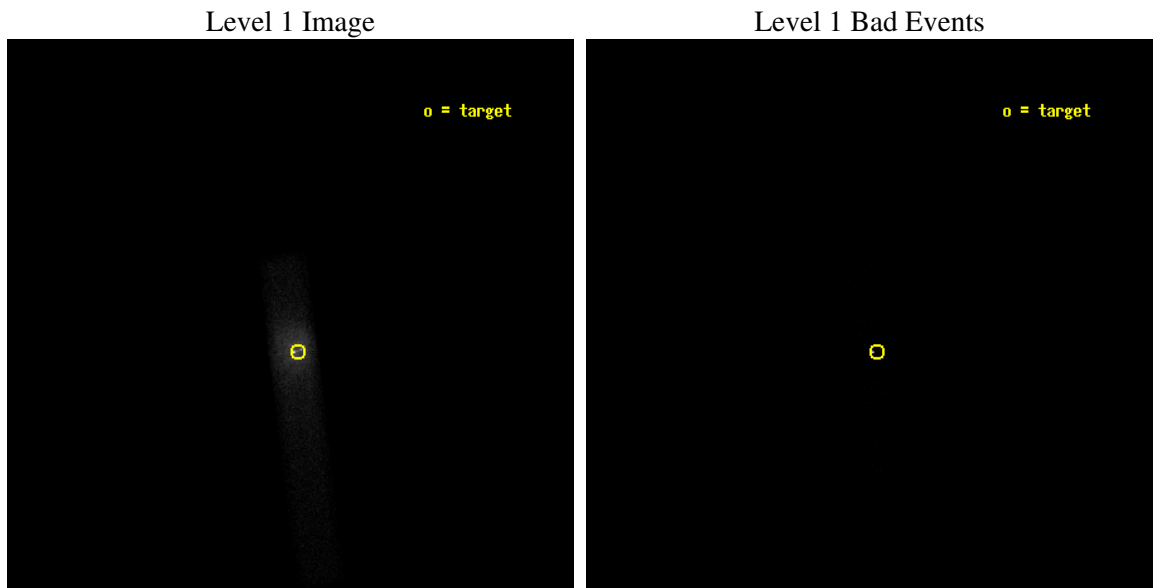
| | |
|----------|---|
| seq_num | 701000 |
| obs_id | 4919 |
| title | HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet |
| observer | Dr. John Biretta |
| object | M87 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 187.704167 |
| dec_targ | 12.391667 |
| ra_nom | 187.70733567661 |
| dec_nom | 12.40377649911 |
| roll_nom | 83.003923815408 |
| revision | 2 |
| ontime | 5185.6000772715 |
| livetime | 4703.0655516701 |
| ontime7 | 5185.6000772715 |
| l2events | 60534 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.2 |
| caldbver | 3.2.2 |
| date | 2006-06-02T09:57:43 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 5000.000000 |
| ontime | 5930.1667693555 |
| ontime7 | 5930.1667693555 |
| l1events | 70679 |

2.1.4 Events

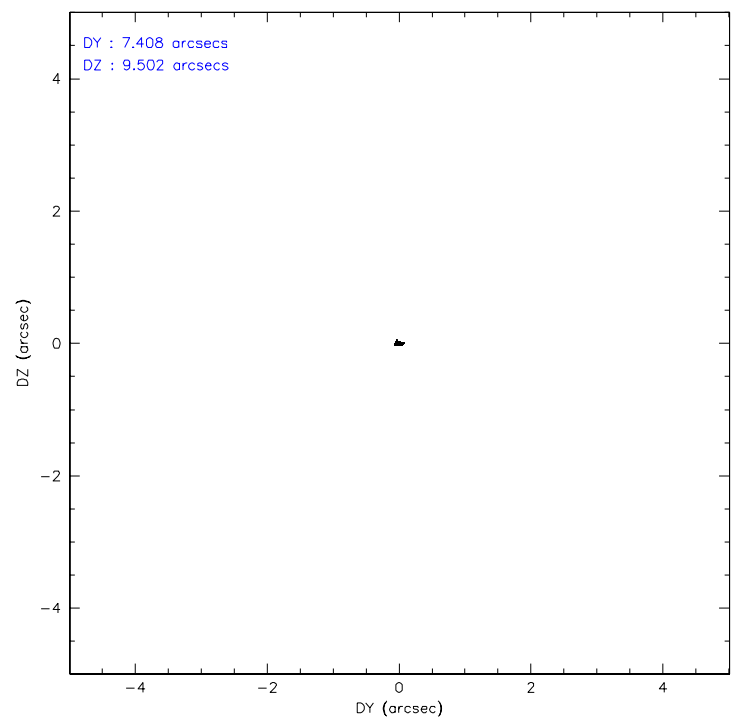
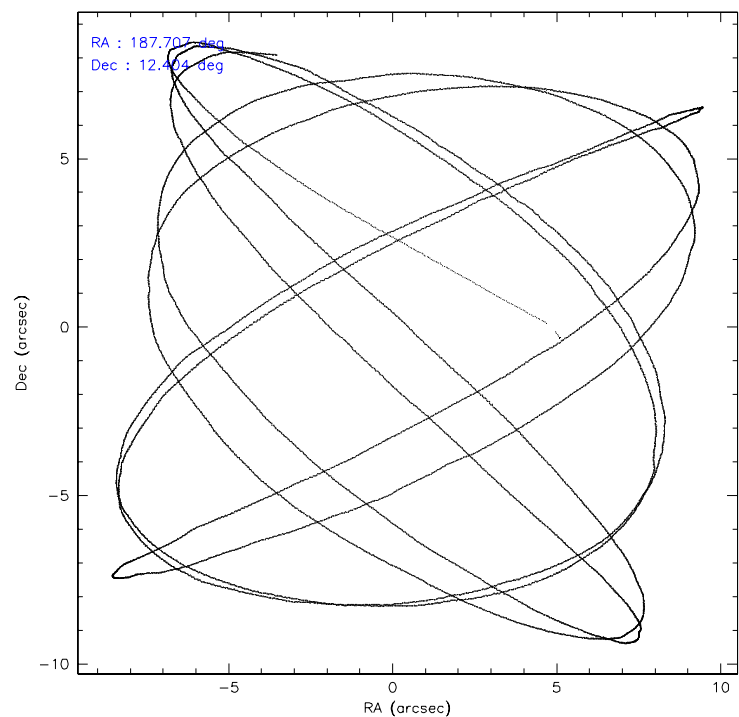
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 70679 |
| rejected events | 9435 |
| rejected % | 13% |

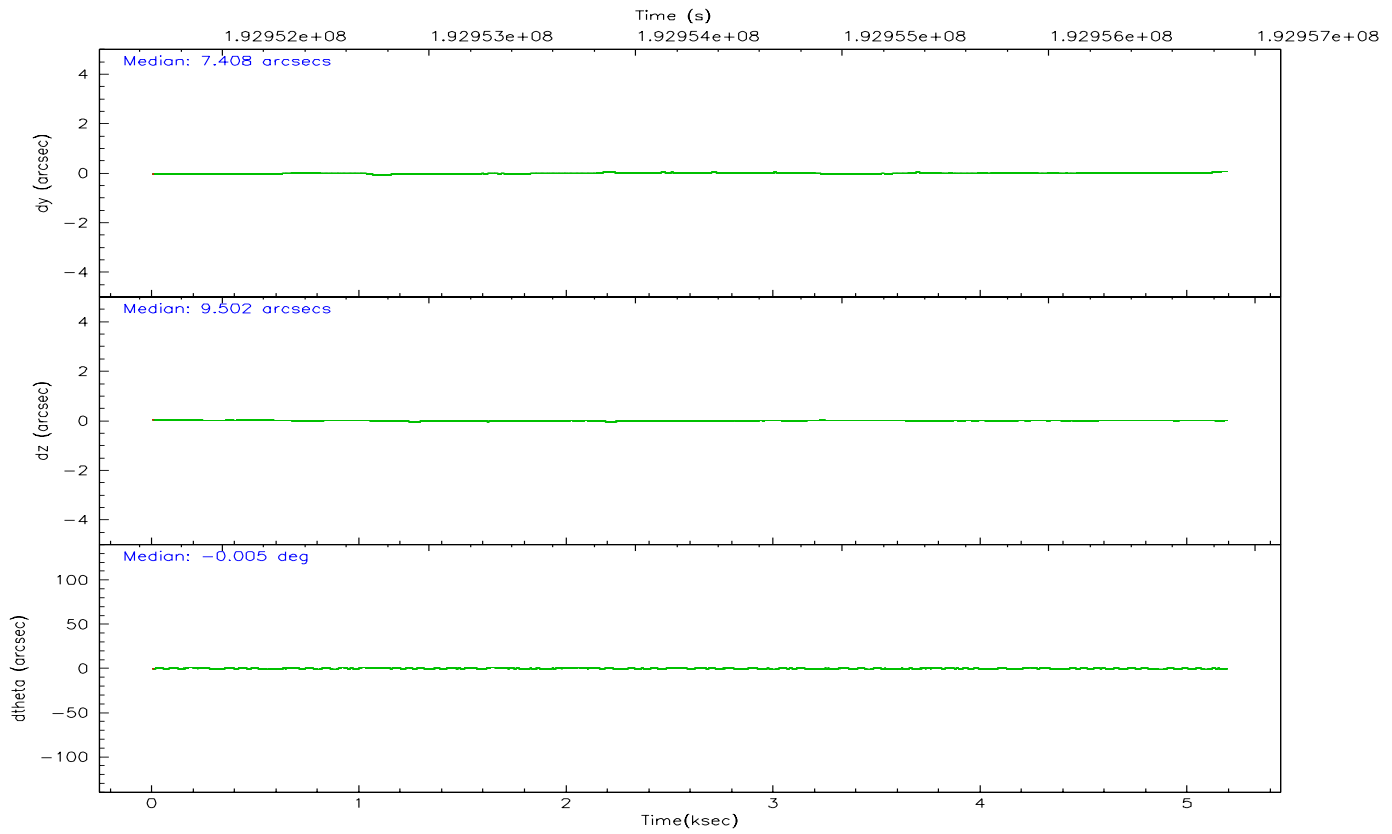
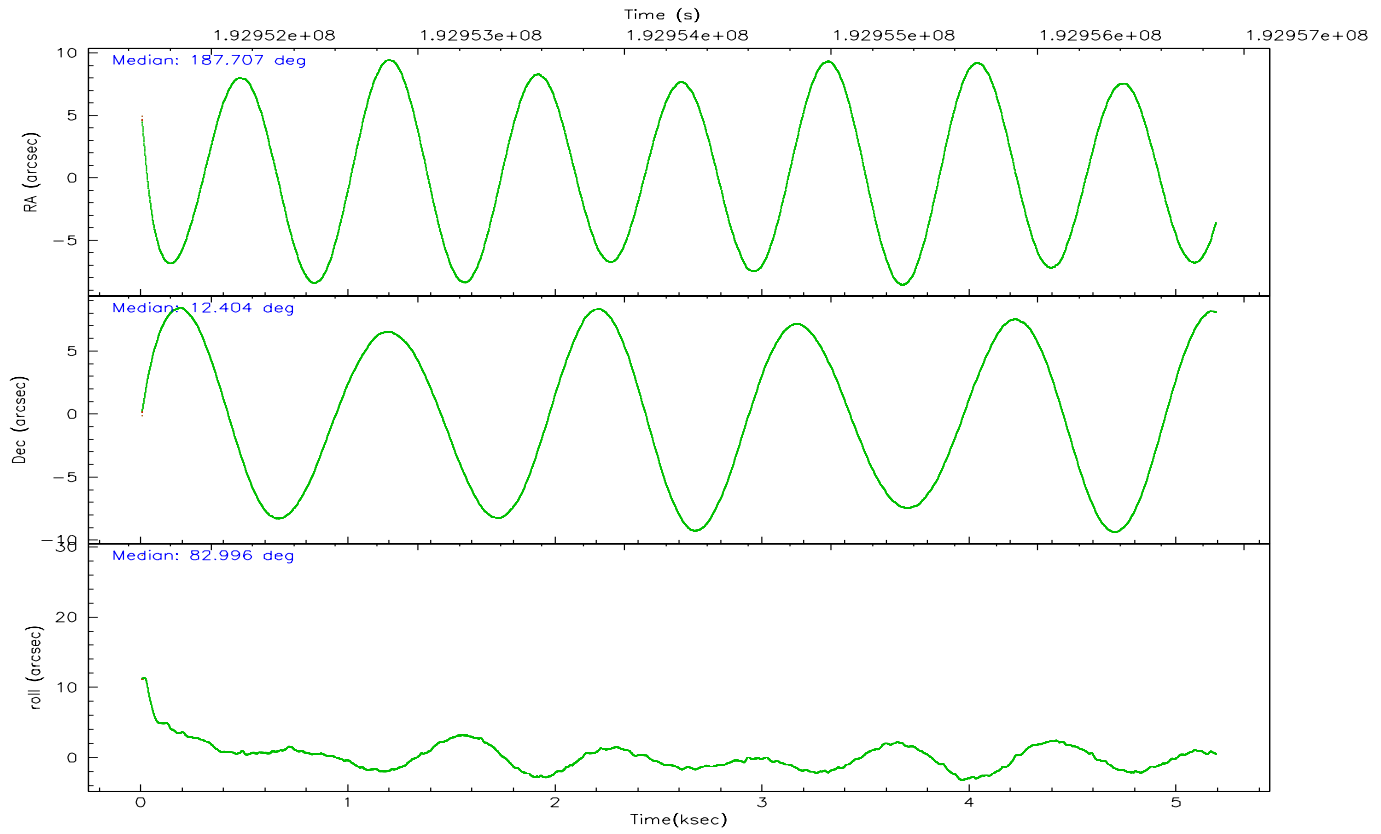
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 18722 |
| | 26% |
| grade 1 events | 309 |
| | 0% |
| grade 2 events | 16671 |
| | 23% |
| grade 3 events | 7126 |
| | 10% |
| grade 4 events | 6881 |
| | 9% |
| grade 5 events | 1948 |
| | 2% |
| grade 6 events | 13736 |
| | 19% |
| grade 7 events | 5286 |
| | 7% |

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 | 187.718674 | 187.707335676613 | Subarray start row | 0 | 449 |
| Pointing Dec | 12.378805 | 12.40377649910977 | Subarray row count | 1024 | 128 |
| Pointing Roll | 82.844836 | 83.00392381540824 | 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 | 192951858.184000 | 192950862.73212 | | | |
| Observation start date | 2004-02-12T05:43:14 | 2004-02-12T05:27:42 | | | |
| Observation end time | 192956858.184000 | 192957346.3699 | | | |
| Observation end date | 2004-02-12T07:06:34 | 2004-02-12T07:15:46 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



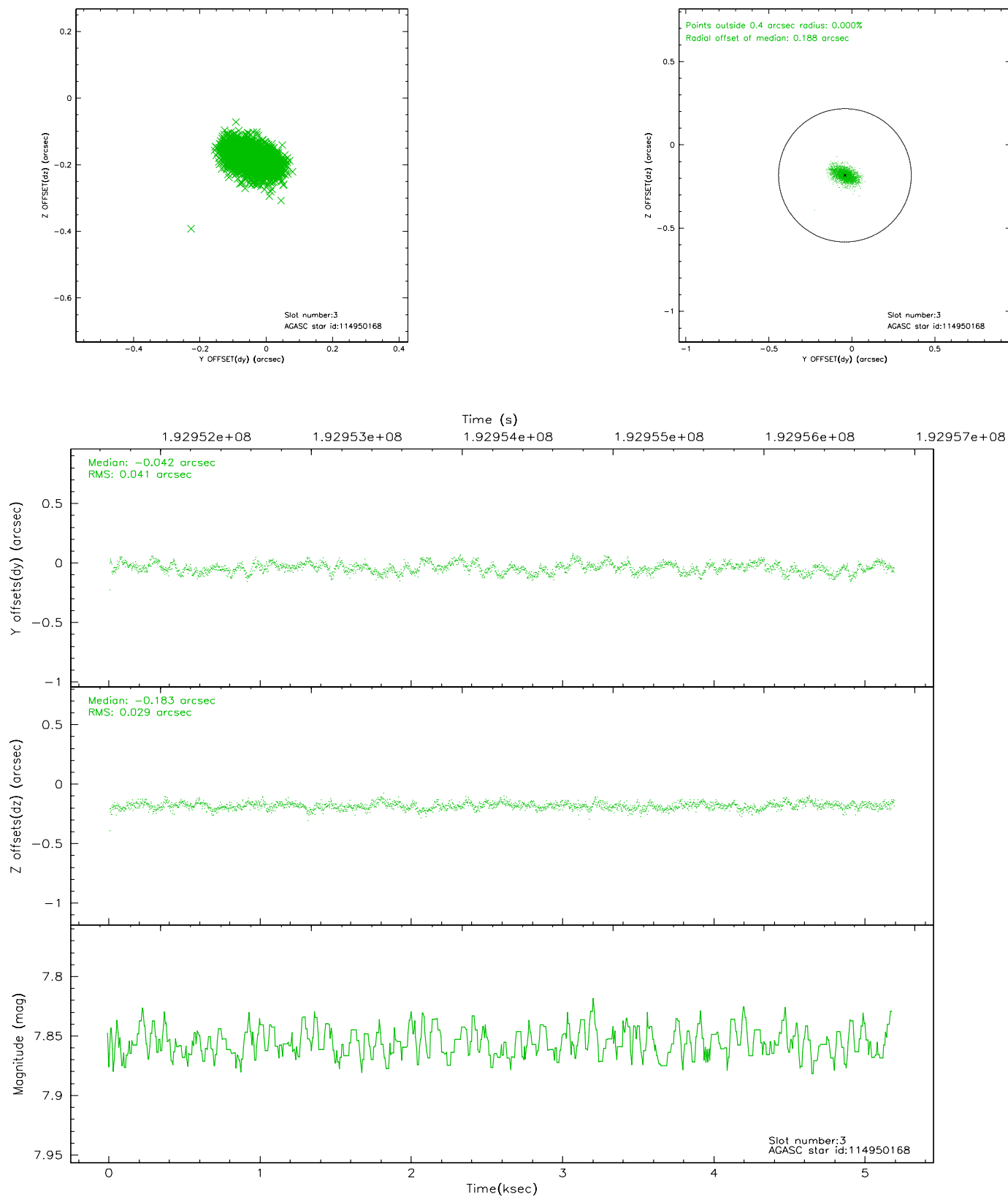


Slot Statistics

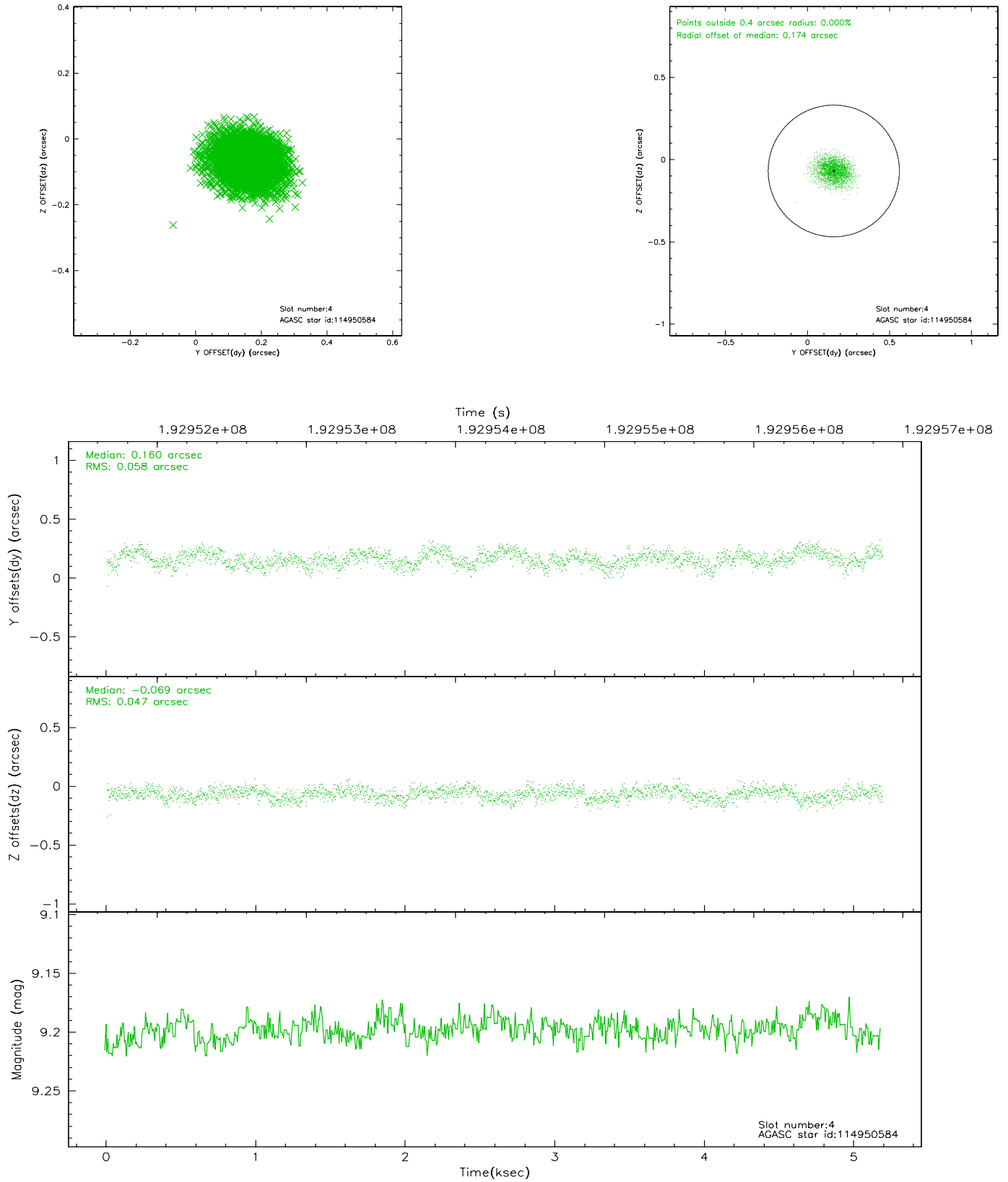
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 1266 | -0.022 | -0.006 | 0.006 | 0.010 | 0.000000 | 0.000000 | -760.16 | -1730.75 |
| 1 | FID | ACIS-S-4 | 7.20 | 1266 | 0.038 | 0.012 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2152.62 | 176.58 |
| 2 | FID | ACIS-S-5 | 7.23 | 1266 | -0.047 | 0.003 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1811.56 | 171.52 |
| 3 | GUIDE | 114950168 | 7.86 | 2531 | -0.042 | -0.183 | 0.053 | 0.090 | 187.143398 | 12.117441 | -1184.19 | 1891.86 |
| 4 | GUIDE | 114950584 | 9.20 | 2530 | 0.160 | -0.069 | 0.079 | 0.129 | 187.487323 | 11.827248 | -2071.90 | 562.16 |
| 5 | GUIDE | 114952824 | 8.56 | 2531 | -0.081 | -0.100 | 0.067 | 0.110 | 187.703904 | 12.486727 | 377.94 | 100.30 |
| 6 | GUIDE | 114955056 | 8.34 | 2531 | 0.005 | 0.265 | 0.062 | 0.098 | 187.914001 | 12.127854 | -810.37 | -794.33 |
| 7 | GUIDE | 114955568 | 7.52 | 2530 | -0.045 | 0.087 | 0.062 | 0.102 | 187.061916 | 11.826551 | -2258.95 | 2048.51 |

2.4 Star Slots

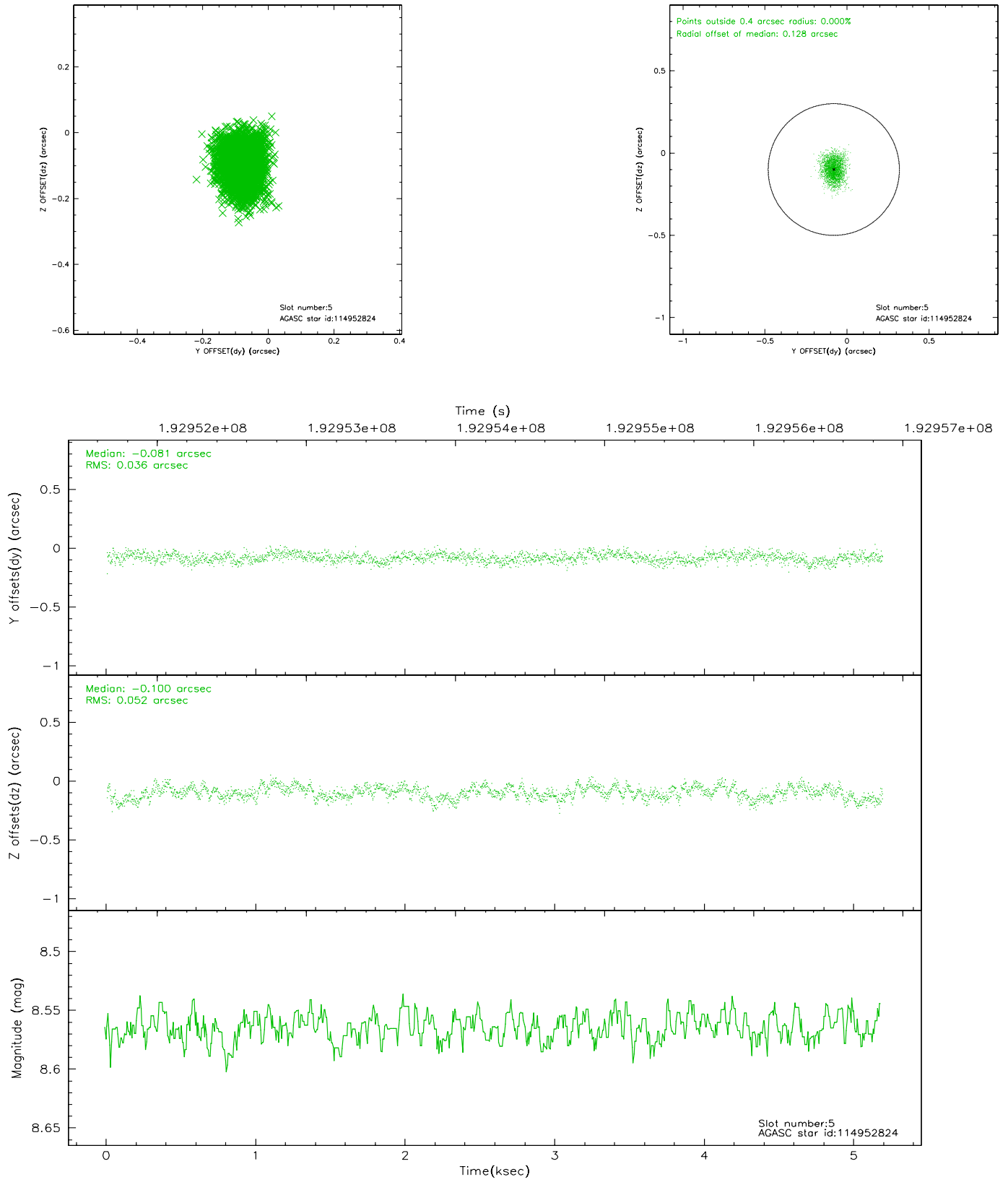
2.4.1 Slot 3



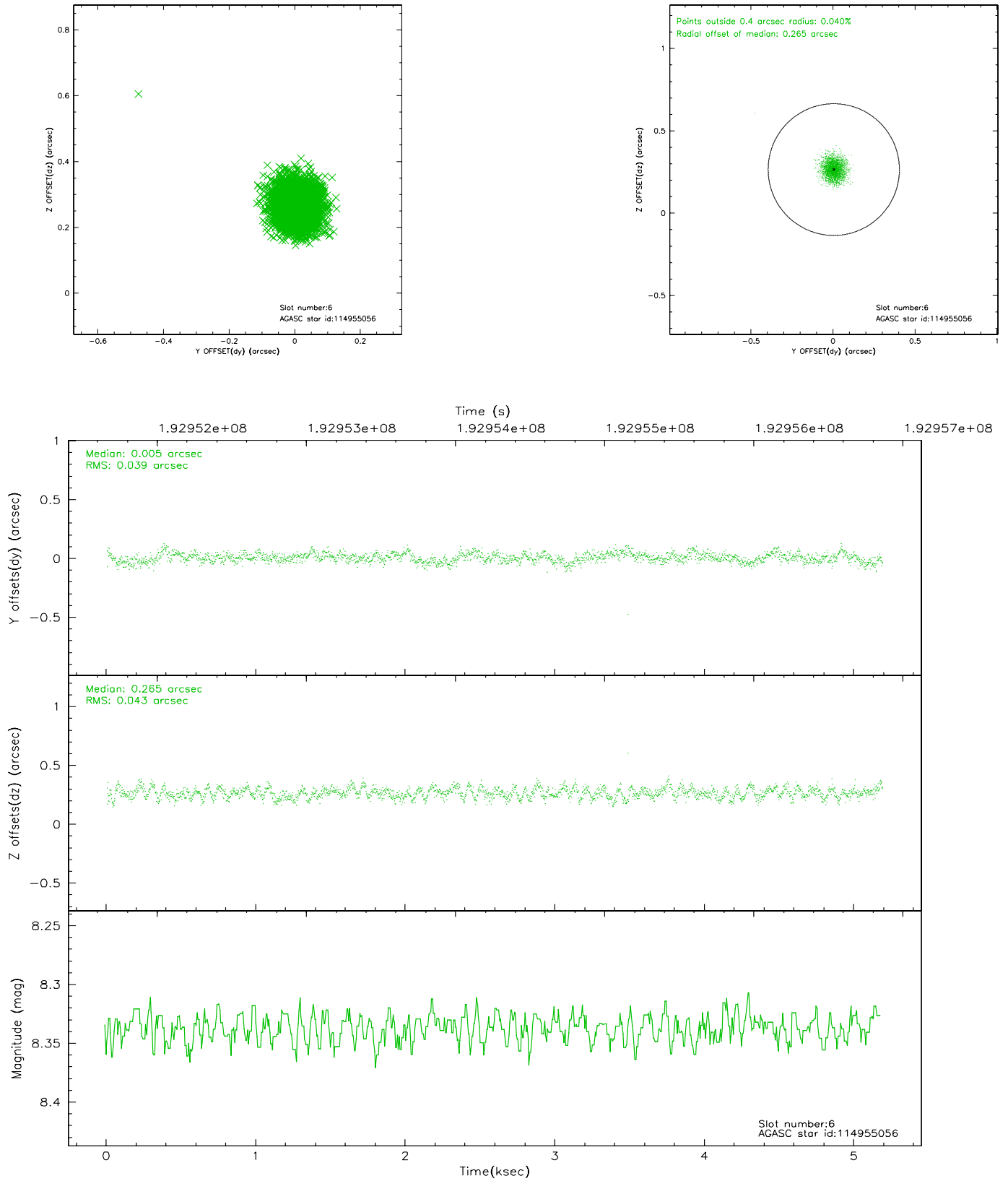
2.4.2 Slot 4



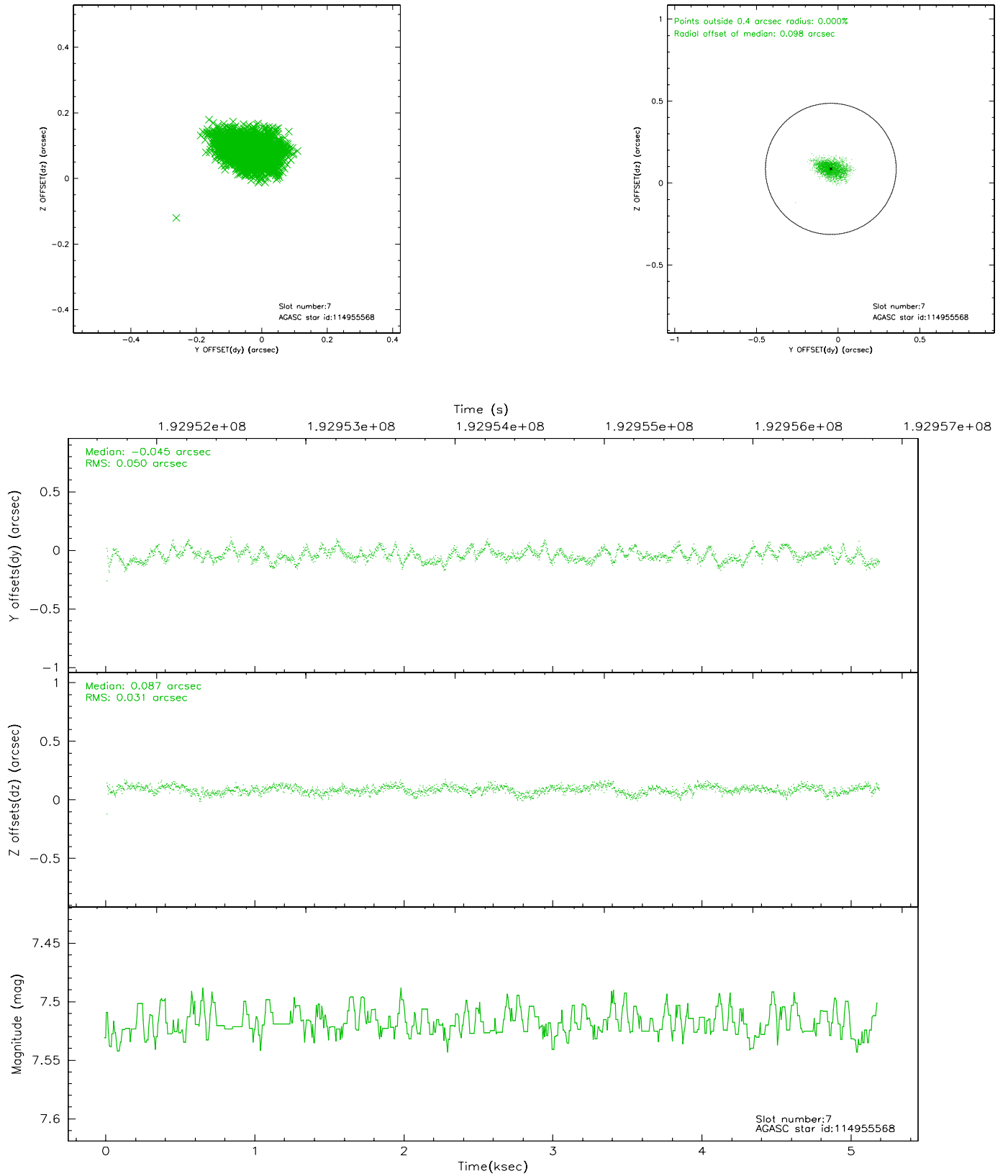
2.4.3 Slot 5



2.4.4 Slot 6

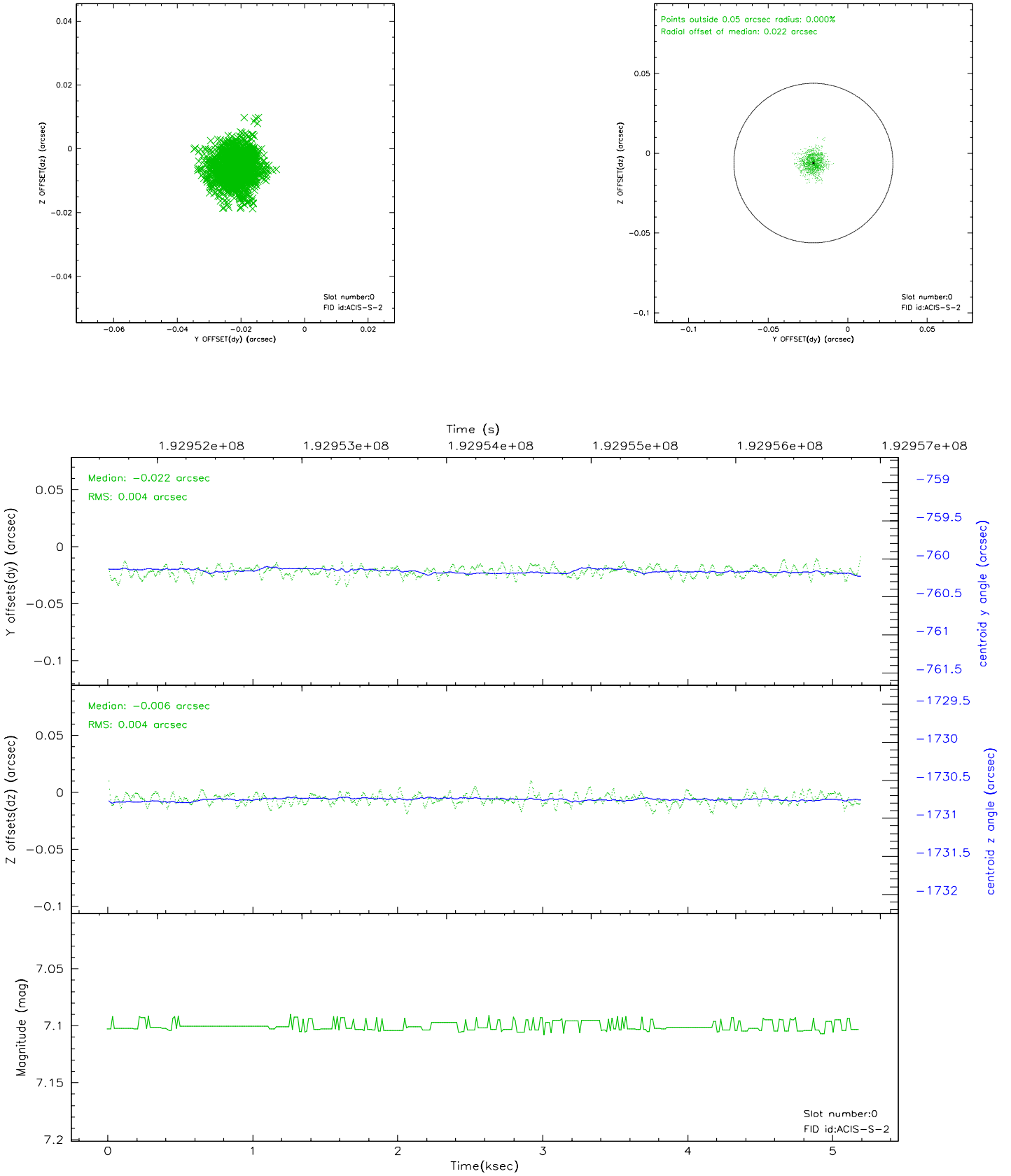


2.4.5 Slot 7

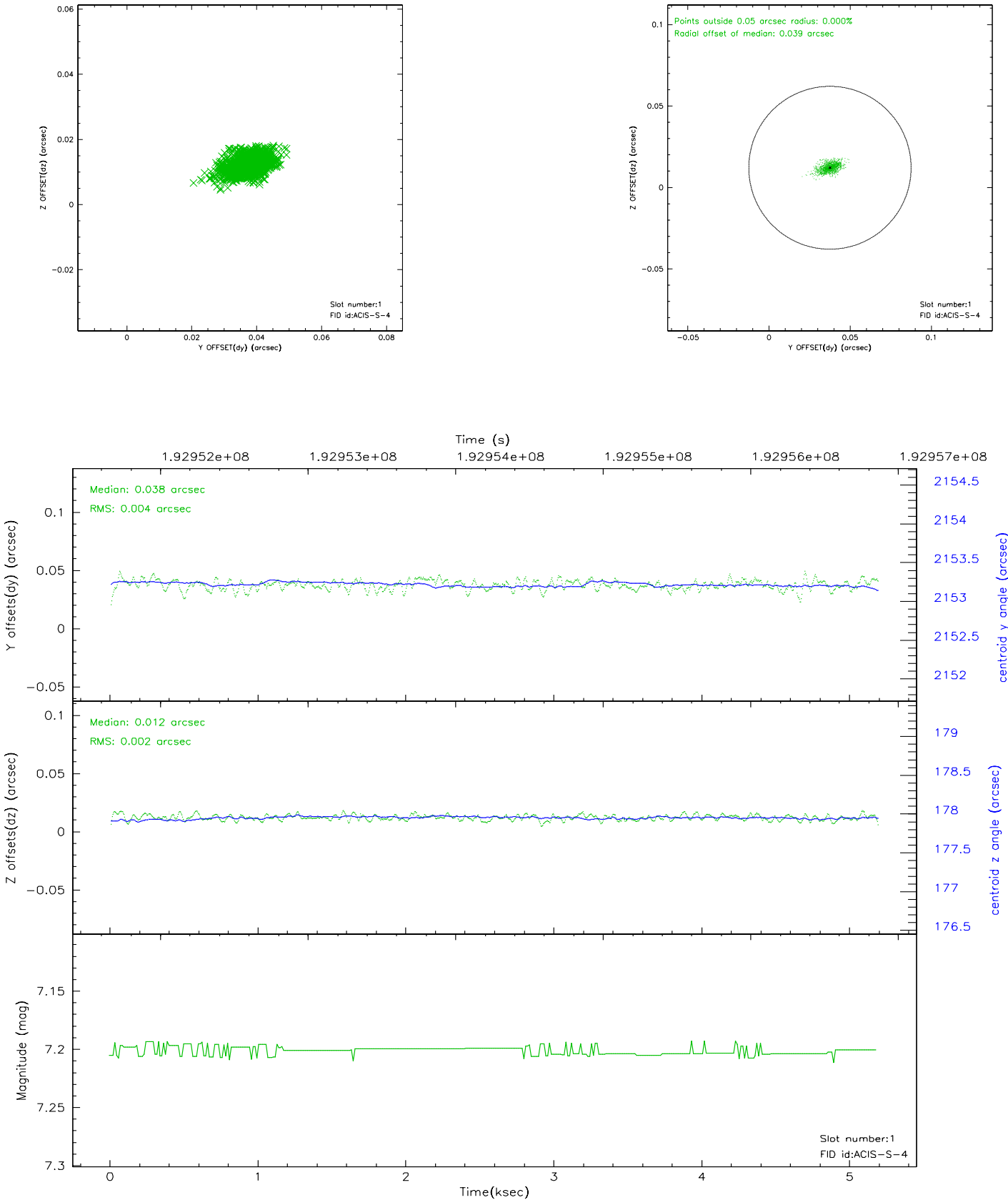


2.5 FID Slots

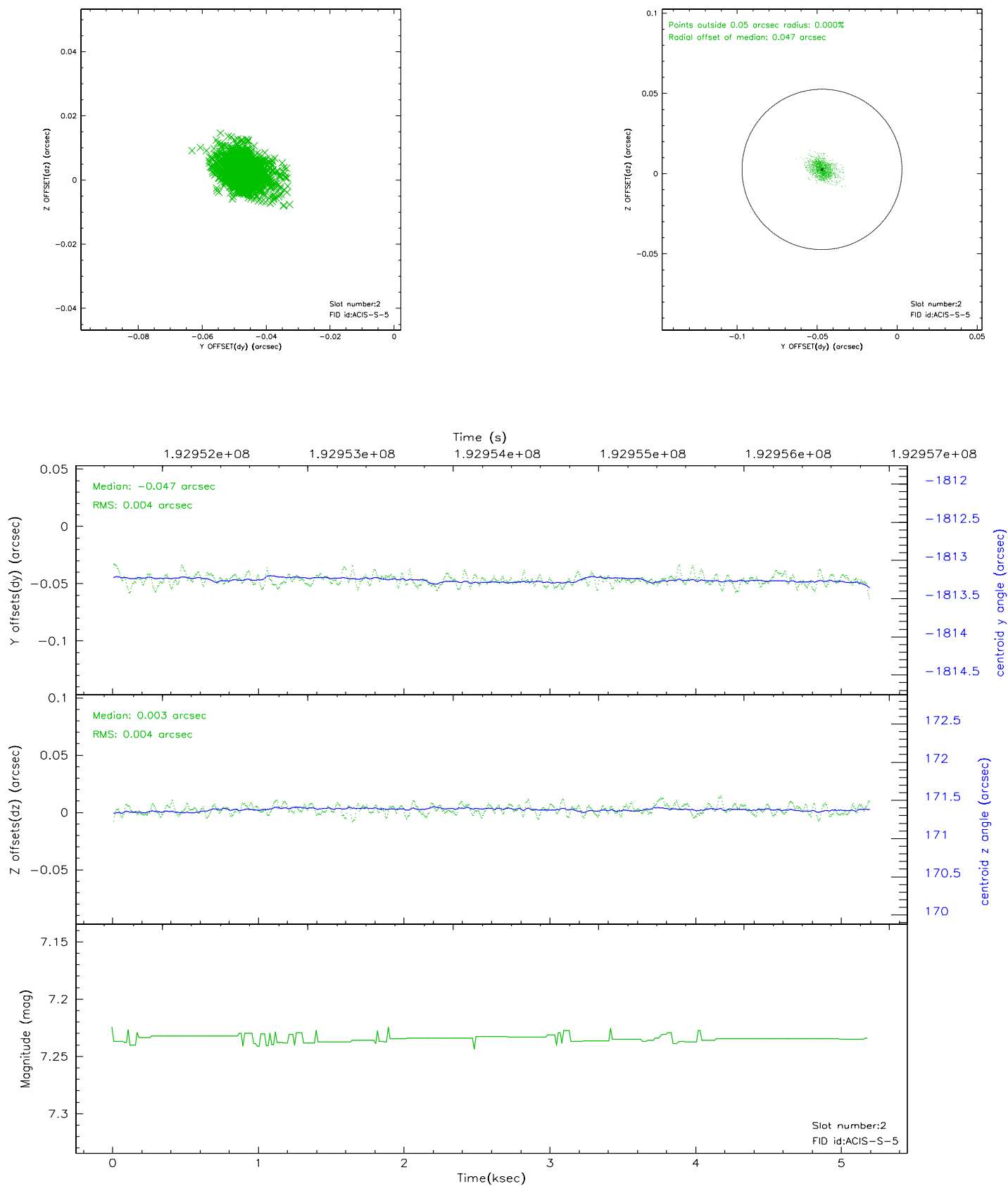
2.5.1 Slot 0



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) | 2006.06.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.185 |

A.2 Comments

Monitor constraint met.