

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3387 - L2 Version 001
Chandra X-Ray Center

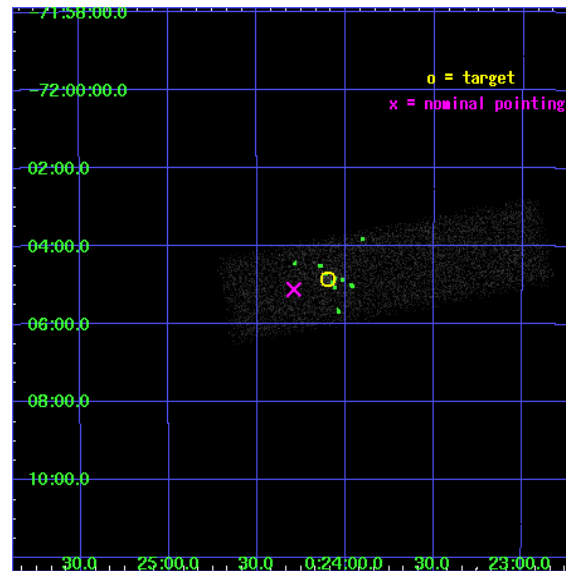
L2 Processing Date : Oct 7 2006

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 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

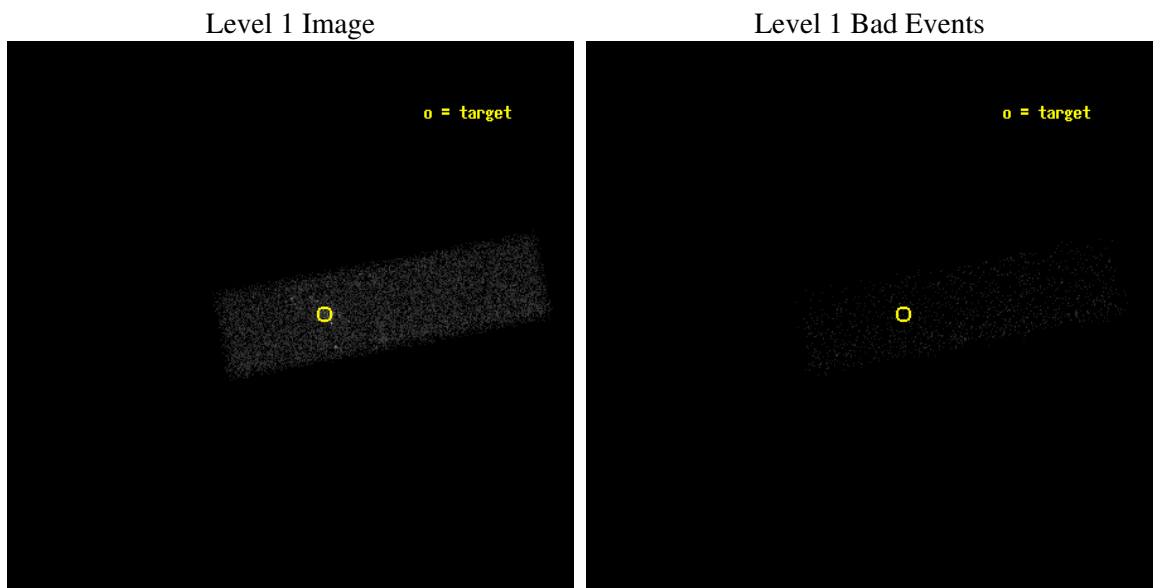
| | |
|-----------|--|
| seq_num | 400218 |
| obs_id | 3387 |
| title | COMPLETE COMPACT OBJECT AND BINARY SURVEY OF 47TUC |
| observer | Prof. Jonathan Grindlay |
| object | 47 TUCANAE |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 6.024167 |
| dec_targ | -72.080889 |
| ra_nom | 6.072987434354 |
| dec_nom | -72.085436808864 |
| roll_nom | 349.20307453607 |
| revision | 2 |
| ontime | 6028.8000898361 |
| livedtime | 5734.6143725256 |
| ontime7 | 6028.8000898361 |
| l2events | 10992 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldbver | 3.2.3 |
| date | 2006-10-07T05:50:42 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 5200.000000 |
| ontime | 6030.1835300326 |
| ontime7 | 6030.1835300326 |
| l1events | 19491 |

2.1.4 Events

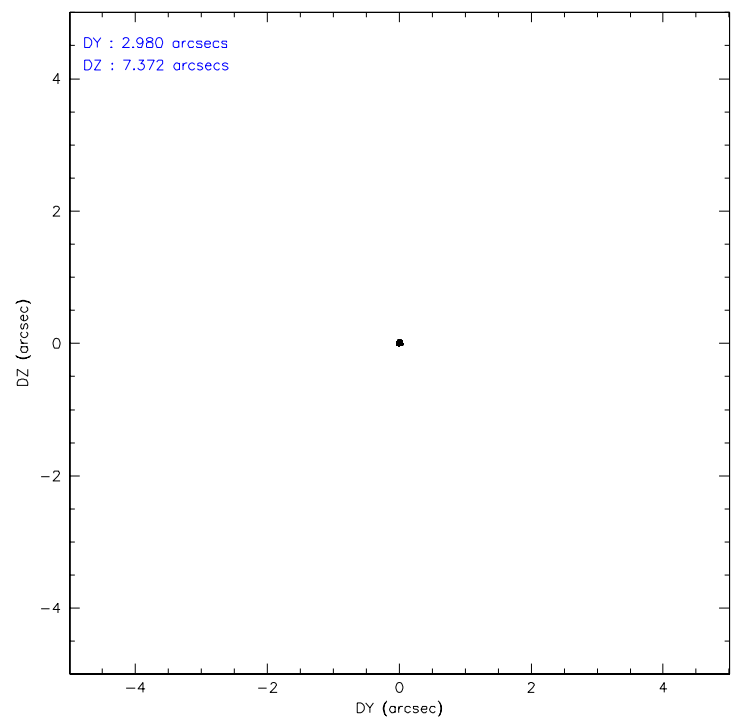
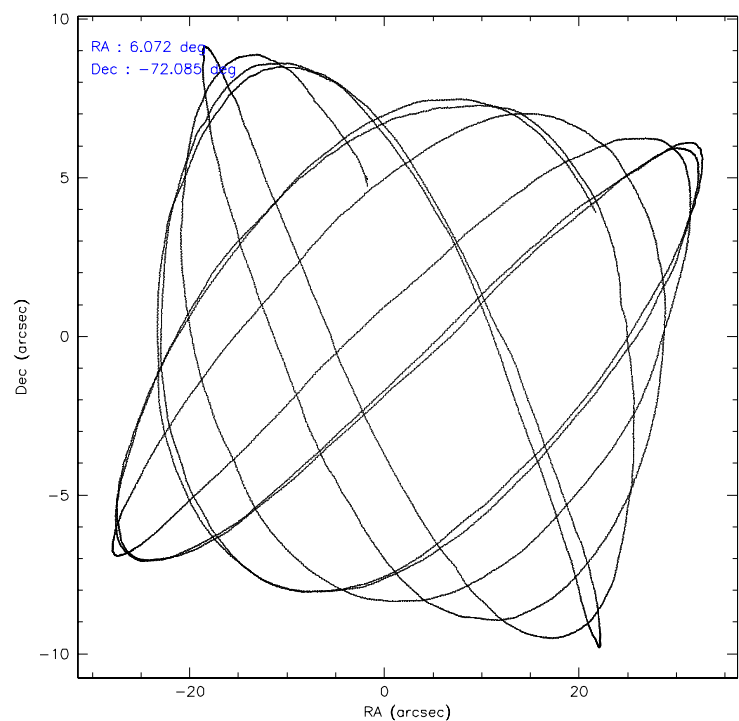
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 19491 |
| rejected events | 8269 |
| rejected % | 42% |

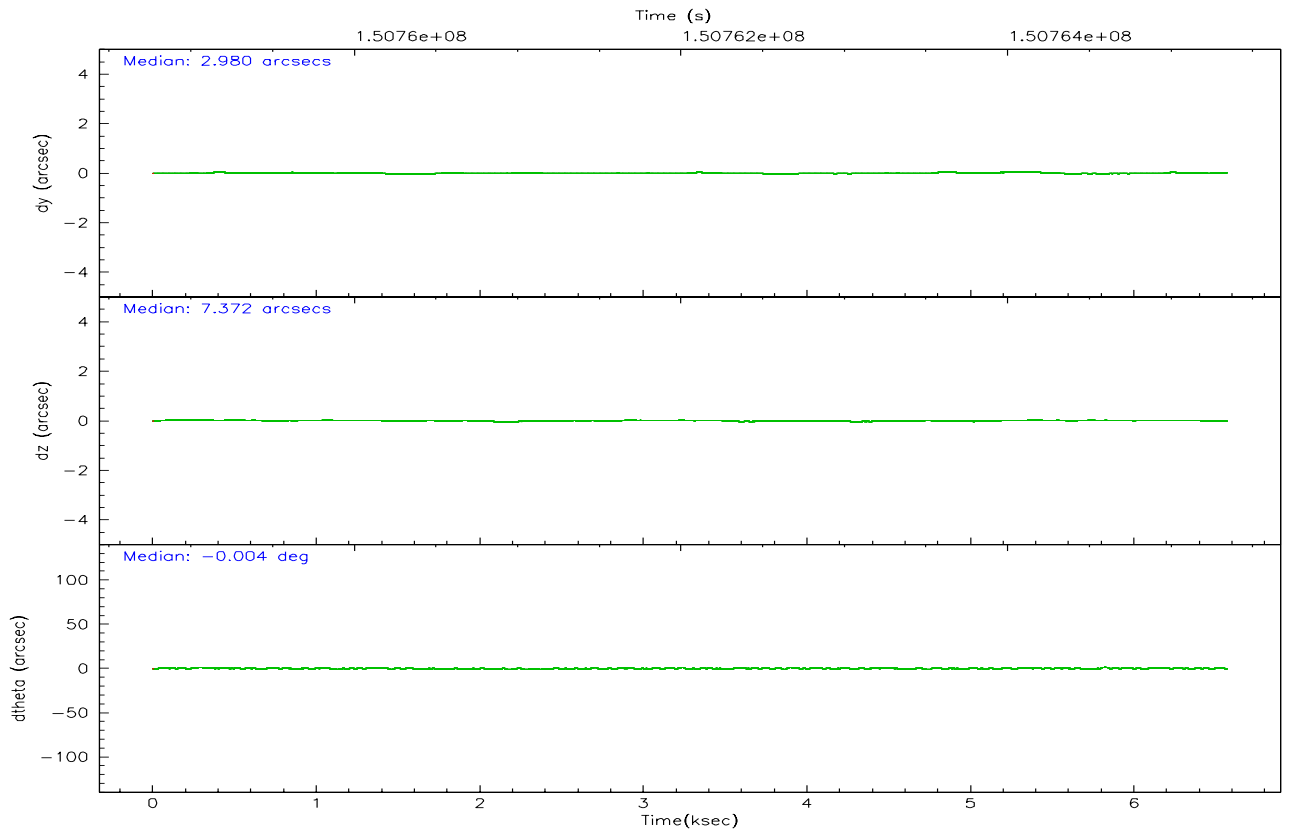
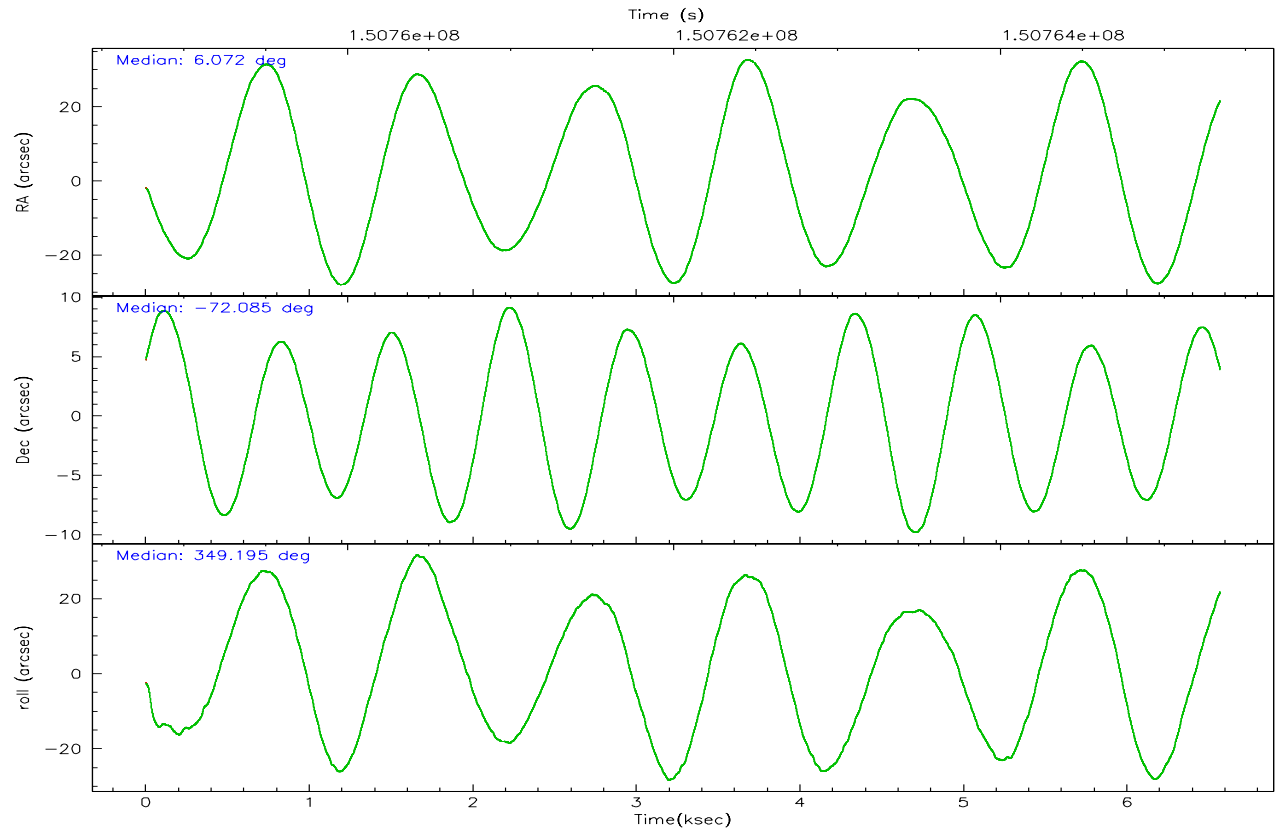
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 1610 |
| | 8% |
| grade 1 events | 19 |
| | 0% |
| grade 2 events | 2651 |
| | 13% |
| grade 3 events | 920 |
| | 4% |
| grade 4 events | 883 |
| | 4% |
| grade 5 events | 1029 |
| | 5% |
| grade 6 events | 5161 |
| | 26% |
| grade 7 events | 7218 |
| | 37% |

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 | 5.989961 | 6.072987434353977 | Subarray requested | CUSTOM | 1/4 |
| Pointing Dec | -72.094791 | -72.08543680886417 | Subarray start row | 384 | 384 |
| Pointing Roll | 348.967451 | 349.2030745360726 | Subarray row count | 256 | 256 |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| SIM defocus (mm) | 0 | 0.001444936568705701 | Primary exposure time | 0.000000 | 0.8 |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 150760139.184000 | 150758592.72548 | | | |
| Observation start date | 2002-10-11T21:47:55 | 2002-10-11T21:23:12 | | | |
| Observation end time | 150765339.184000 | 150766234.6133 | | | |
| Observation end date | 2002-10-11T23:14:35 | 2002-10-11T23:30:34 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



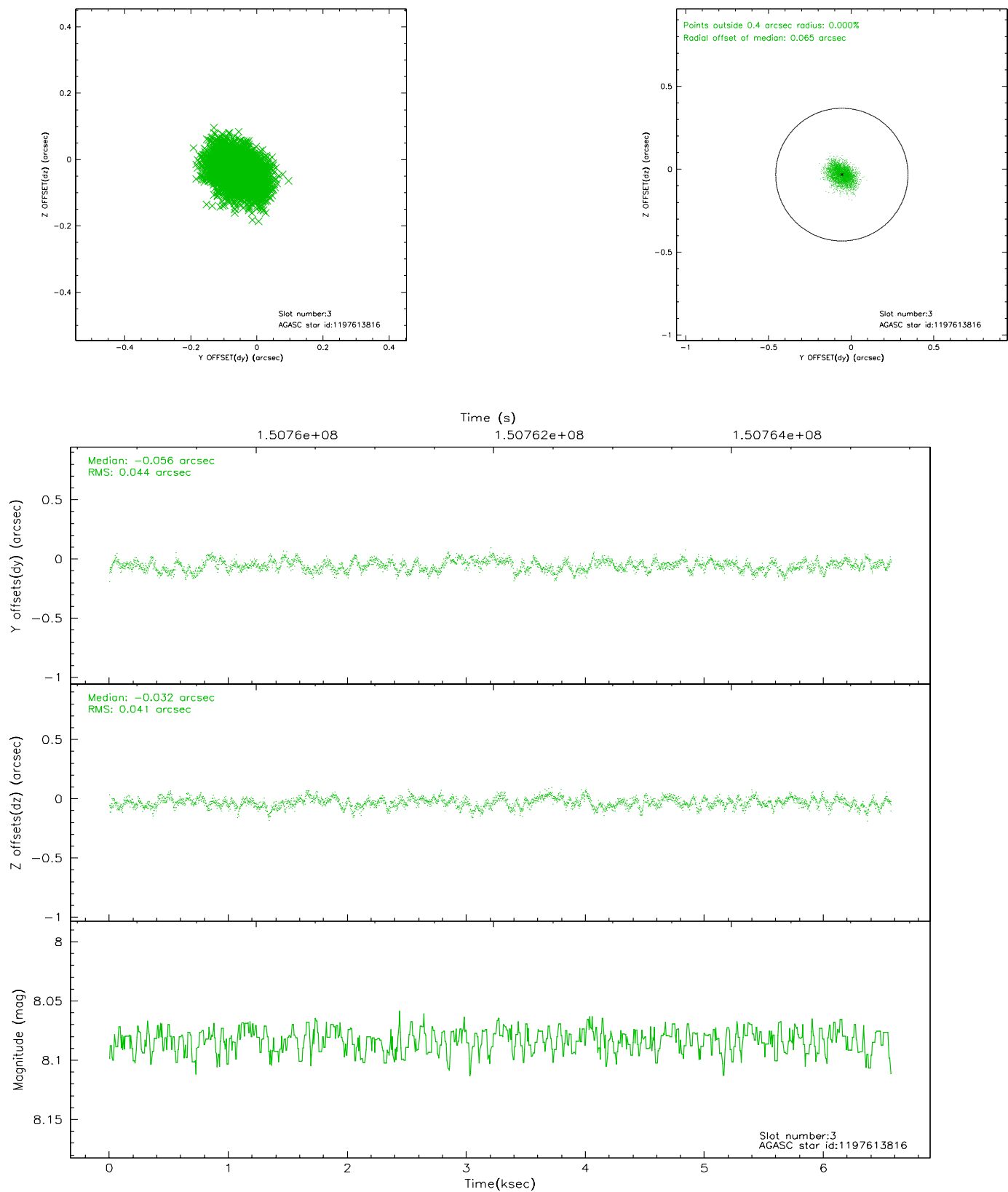


Slot Statistics

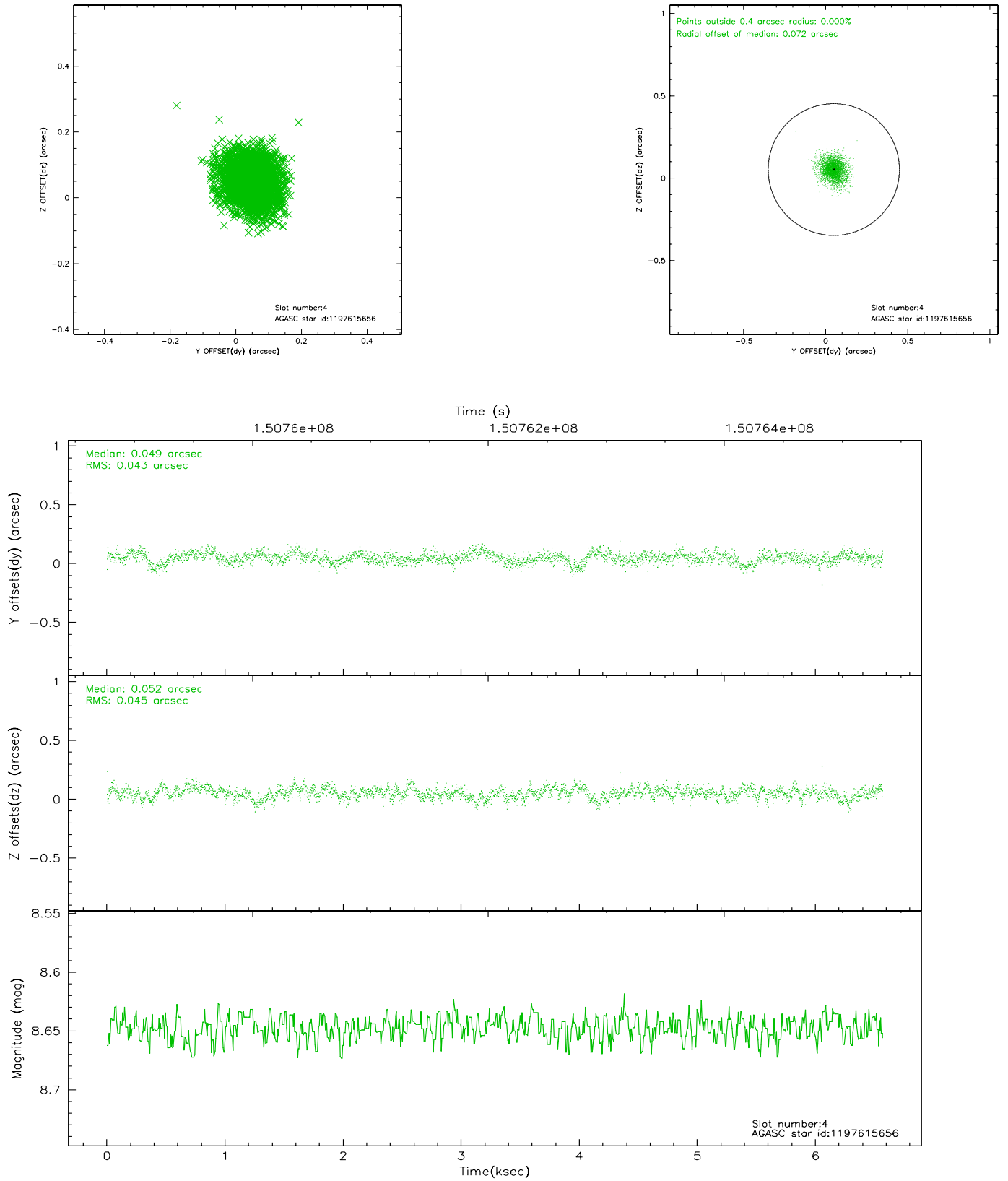
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|----------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 1603 | -0.002 | 0.024 | 0.007 | 0.011 | 0.000000 | 0.000000 | -755.63 | -1728.52 |
| 1 | FID | ACIS-S-4 | 7.20 | 1603 | -0.044 | -0.005 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2157.21 | 179.01 |
| 2 | FID | ACIS-S-5 | 7.24 | 1603 | 0.016 | -0.010 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1807.30 | 173.69 |
| 3 | GUIDE | 1197613816 | 8.08 | 3205 | -0.056 | -0.032 | 0.064 | 0.103 | 5.181461 | -71.977993 | -961.90 | 234.62 |
| 4 | GUIDE | 1197615656 | 8.65 | 3205 | 0.049 | 0.052 | 0.065 | 0.111 | 6.909375 | -71.882658 | 866.42 | 939.32 |
| 5 | GUIDE | 1197999176 | 8.84 | 3205 | 0.007 | -0.022 | 0.120 | 0.175 | 6.259352 | -72.617840 | 646.63 | -1792.80 |
| 6 | GUIDE | 1197624848 | 9.72 | 3200 | 0.022 | 0.075 | 0.139 | 0.231 | 4.678747 | -71.378615 | -1968.55 | 2225.67 |
| 7 | GUIDE | 1197619752 | 9.99 | 3183 | -0.025 | -0.085 | 0.195 | 0.320 | 4.510721 | -71.856694 | -1786.80 | 504.61 |

2.4 Star Slots

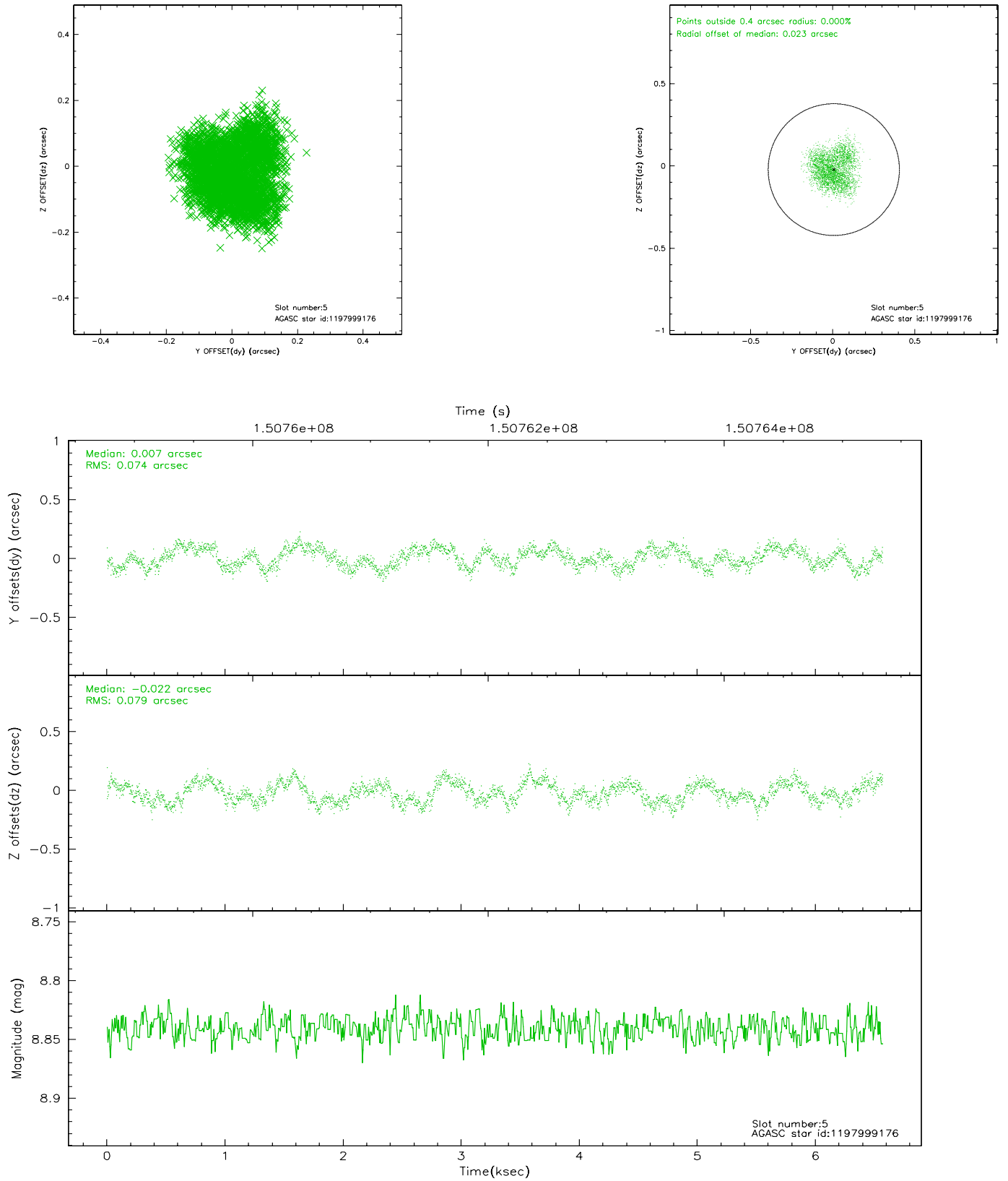
2.4.1 Slot 3



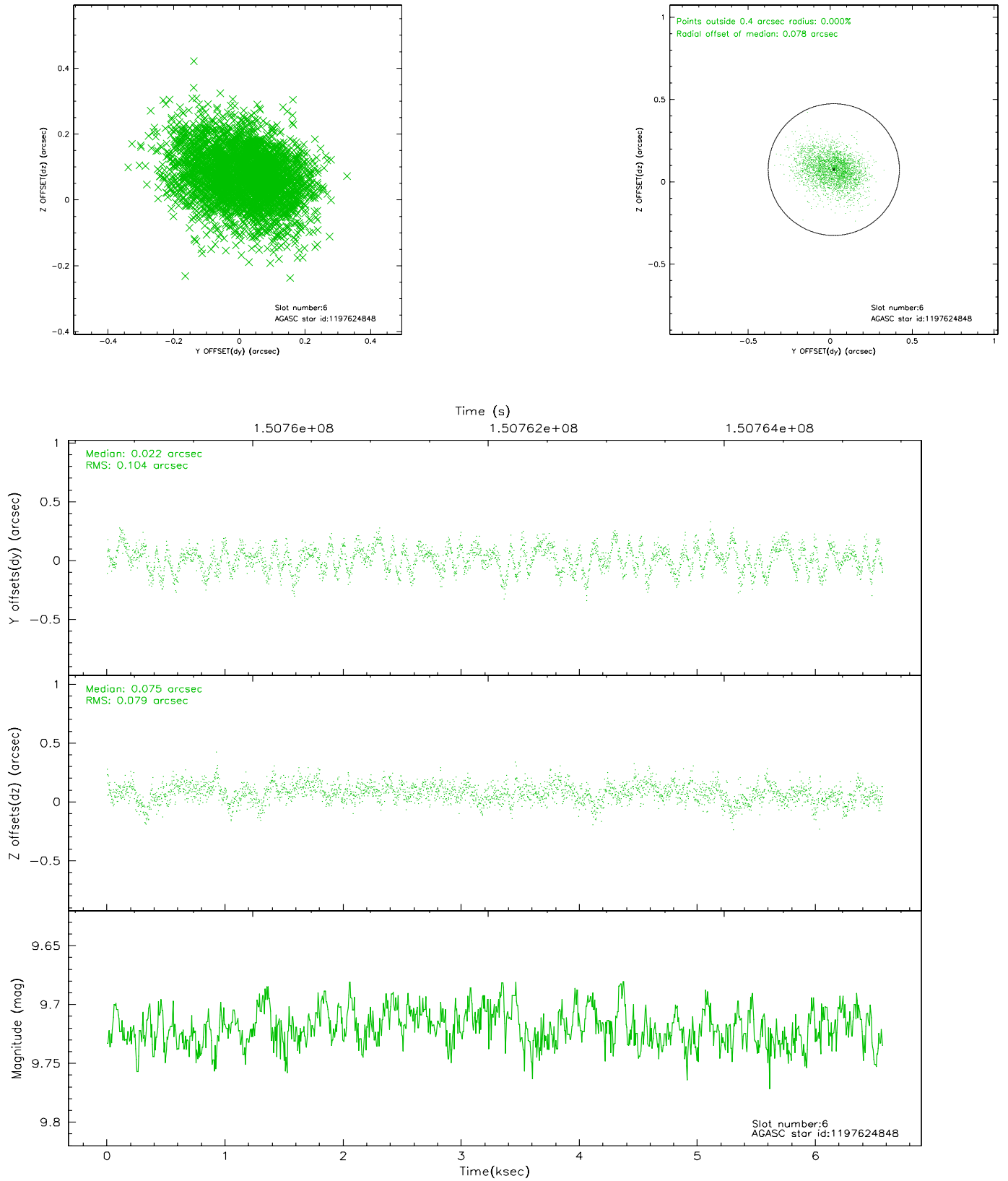
2.4.2 Slot 4



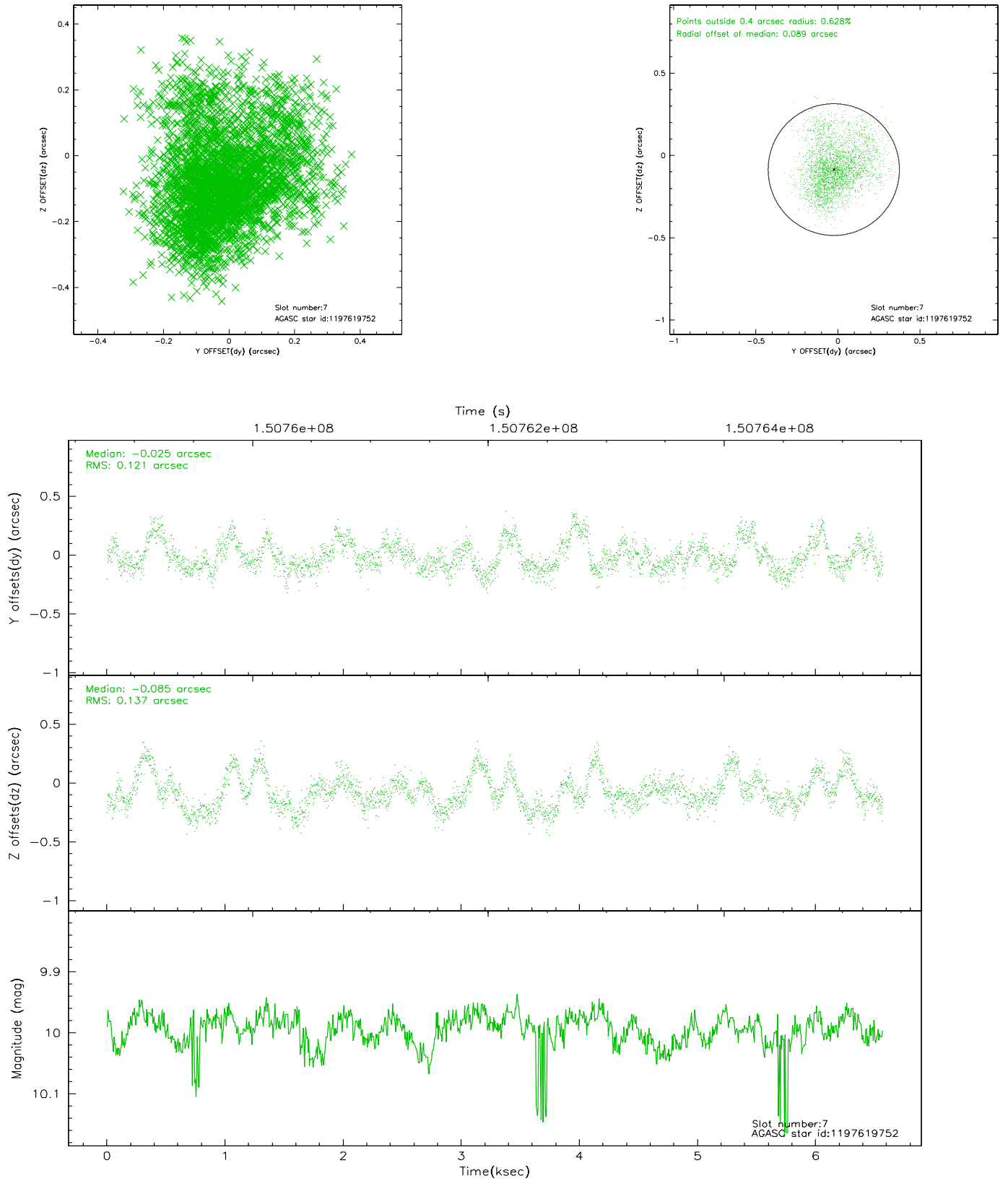
2.4.3 Slot 5



2.4.4 Slot 6

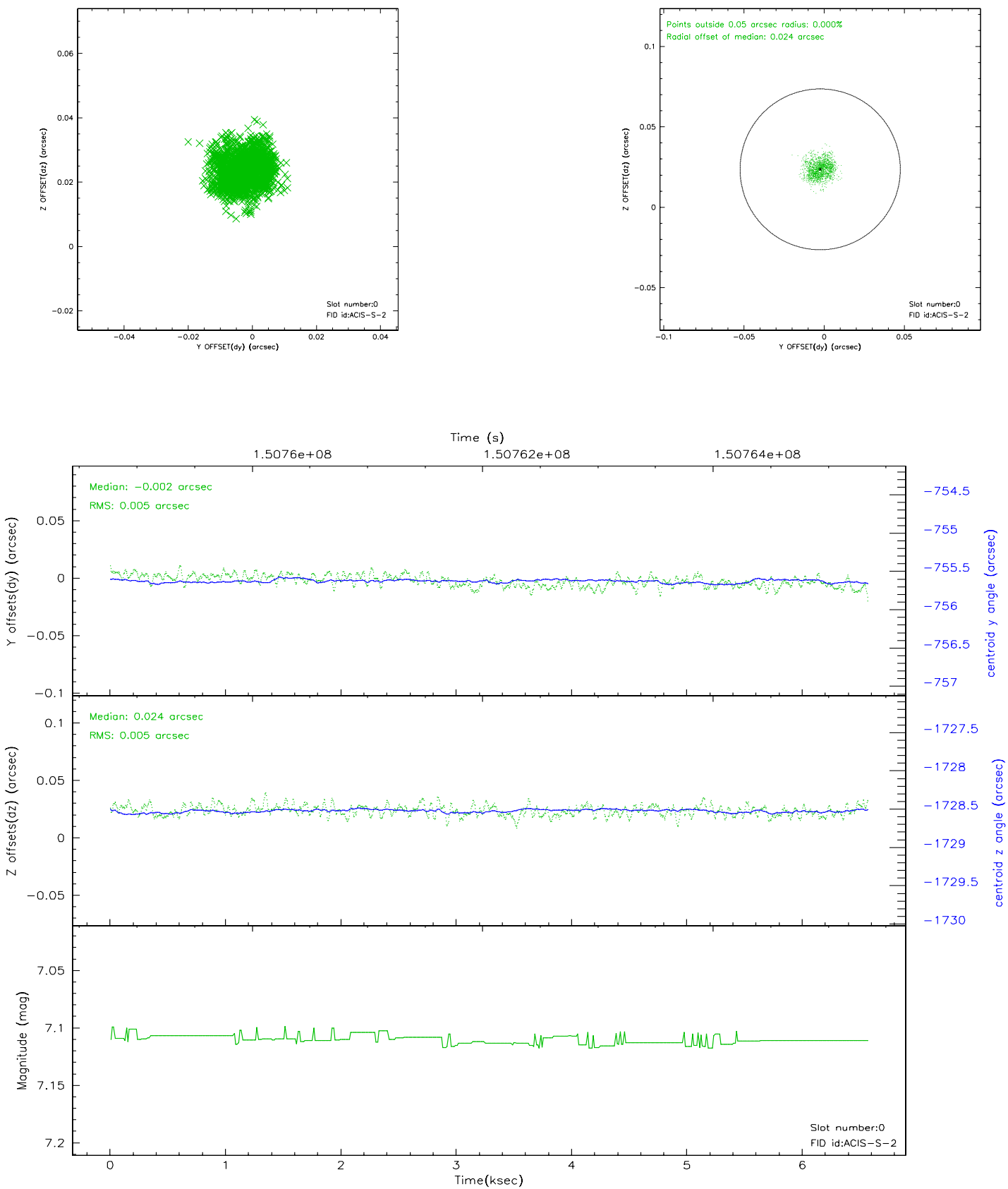


2.4.5 Slot 7

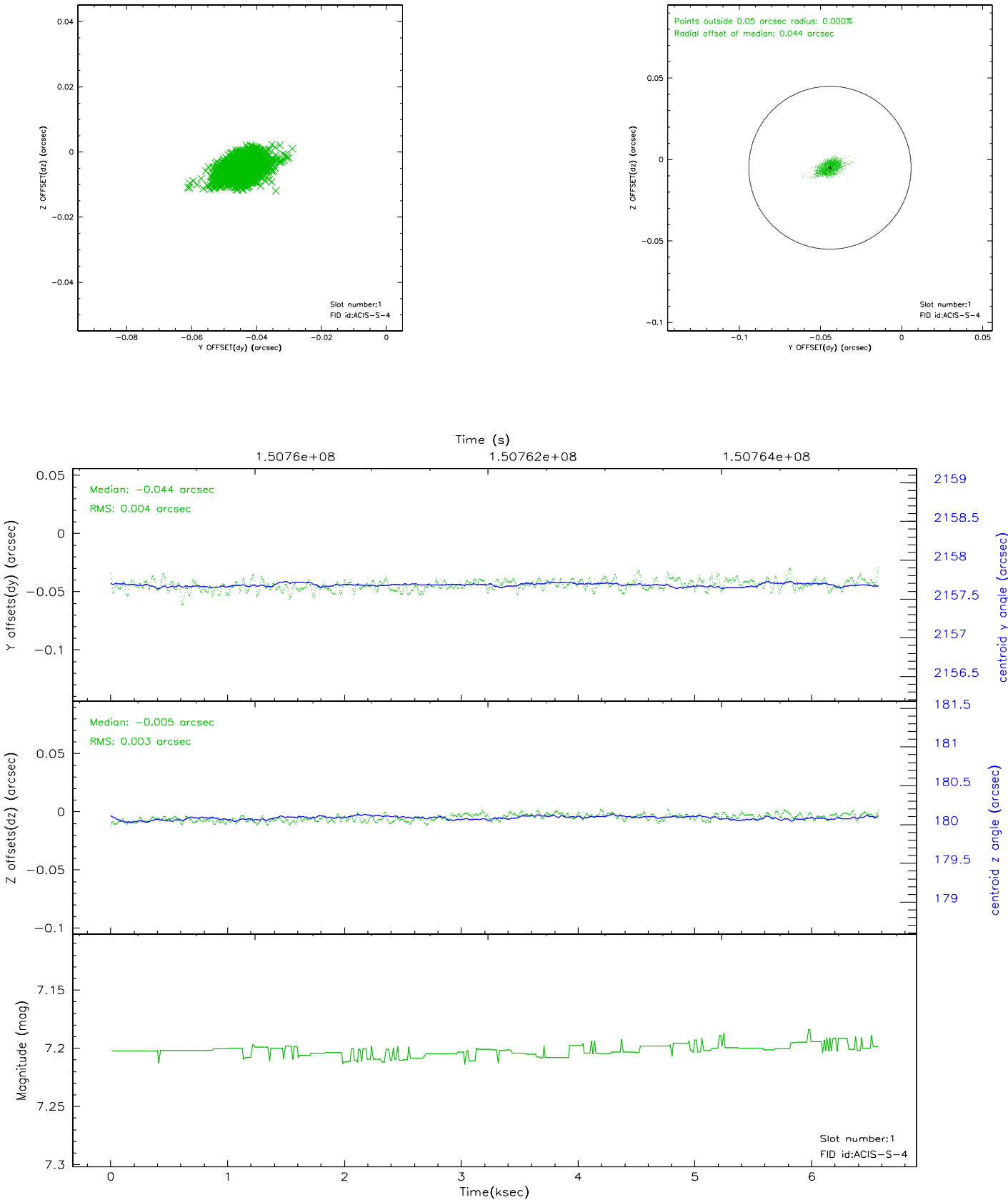


2.5 FID Slots

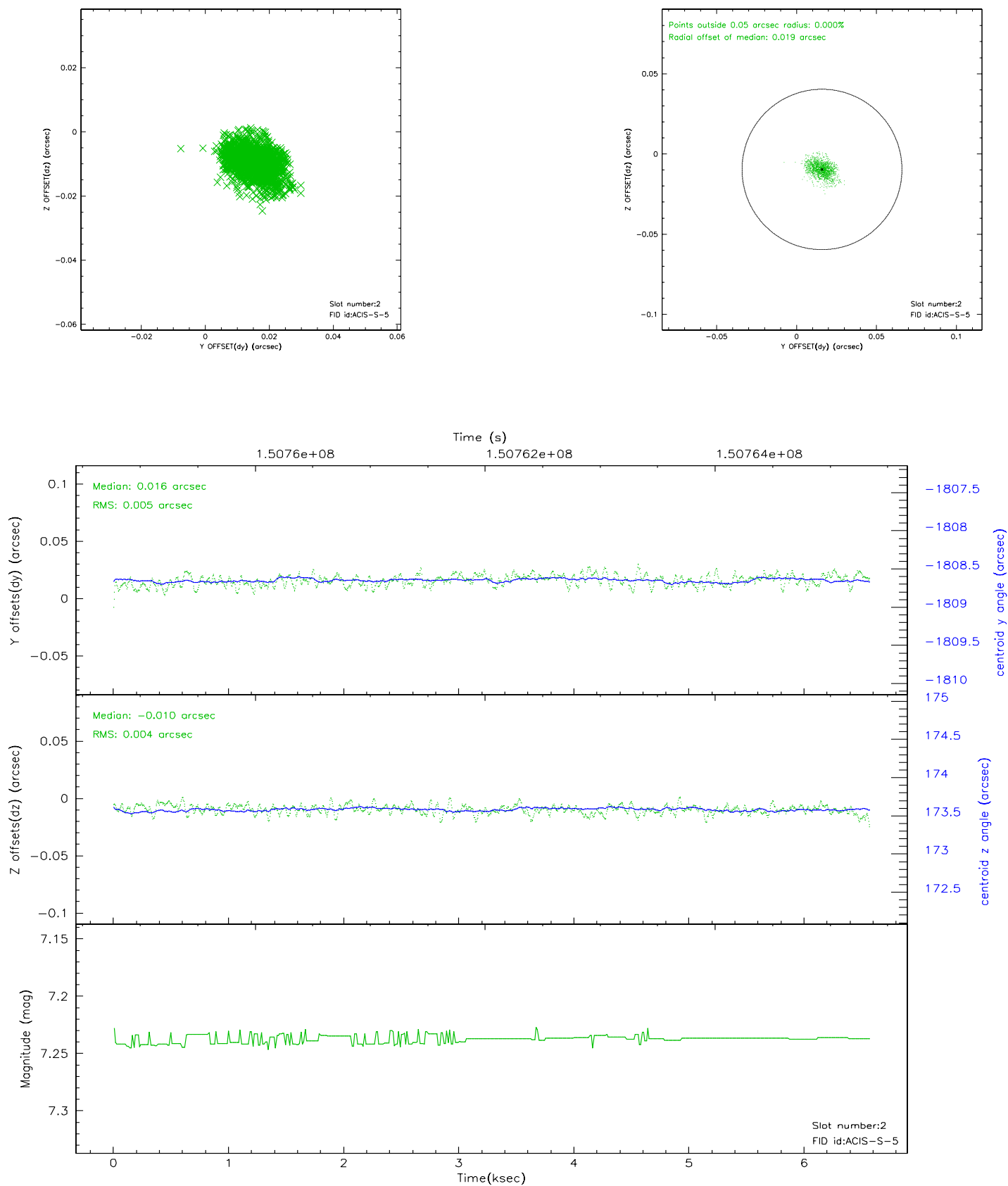
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

2.22 arcmin



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.10.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.029 |

A.2 Comments

Monitor constraint not met, follows obs2737 by < 9.5 days.