

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 3891 - L2 Version 001
Chandra X-Ray Center

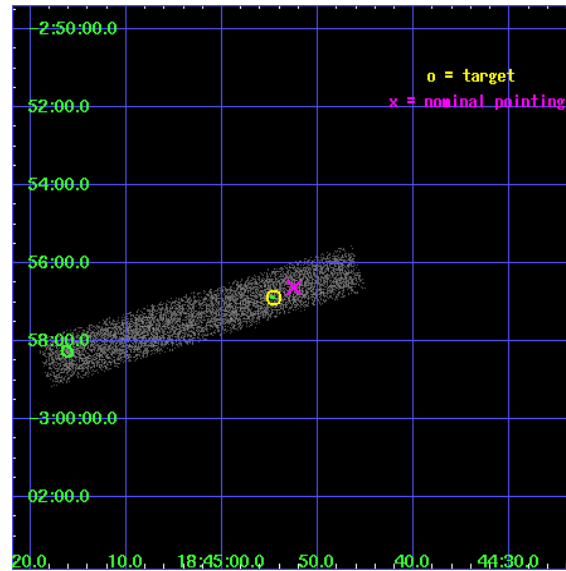
L2 Processing Date : Aug 10 2006

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1 Front

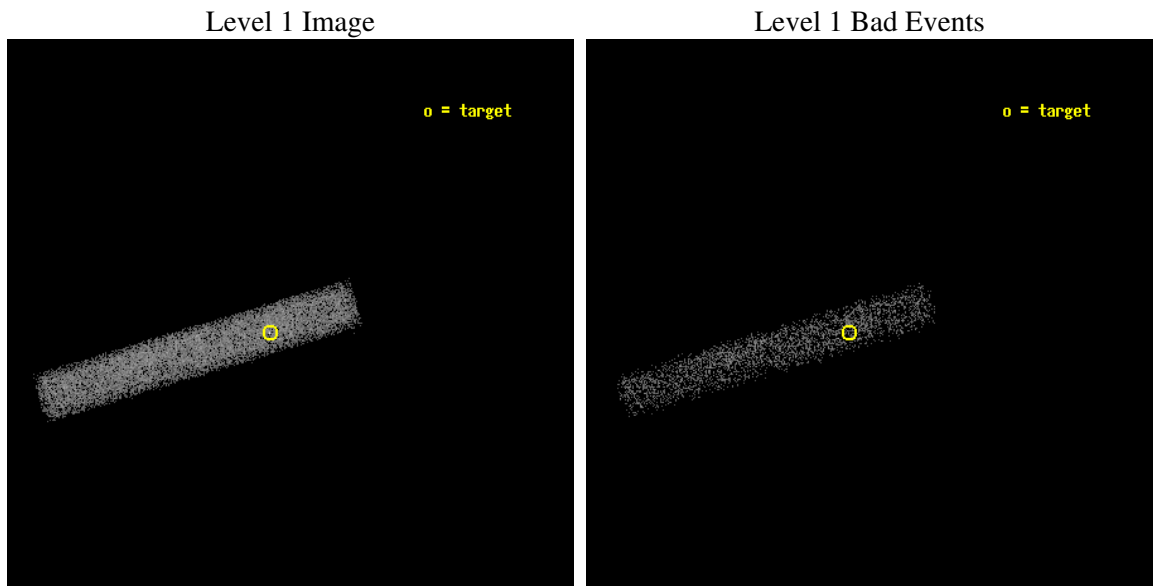
| | |
|----------|---|
| seq_num | 500370 |
| obs_id | 3891 |
| title | IS AX J1845-0258 AN ANOMALOUS X-RAY PULSAR? |
| observer | Professor Victoria Kaspi |
| object | AX J1845-0258 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 281.2275 |
| dec_targ | -2.948056 |
| ra_nom | 281.21885027151 |
| dec_nom | -2.9437067647324 |
| roll_nom | 163.23861308496 |
| revision | 2 |
| ontime | 19291.877187401 |
| livetime | 17496.714300201 |
| ontime7 | 19291.877187401 |
| l2events | 8253 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.8.1 |
| caldbver | 3.2.2 |
| date | 2006-08-10T03:39:52 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 19000.000000 |
| ontime | 19858.048973739 |
| ontime7 | 19858.048973739 |
| l1events | 20751 |

2.1.4 Events

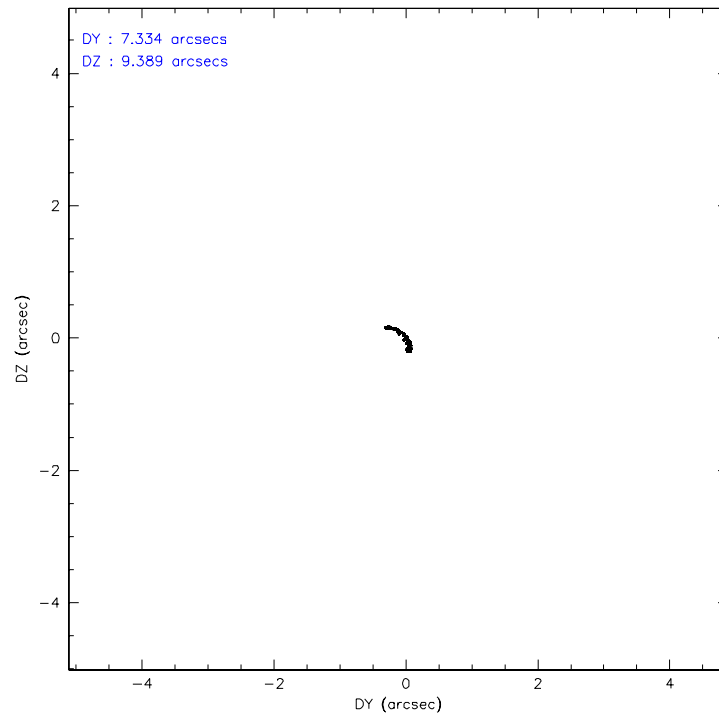
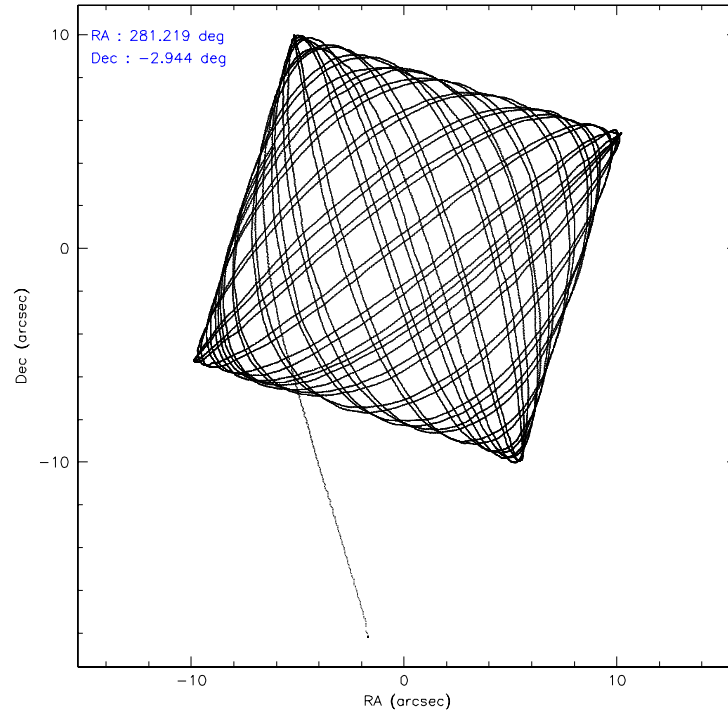
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 20751 |
| rejected events | 12121 |
| rejected % | 58% |

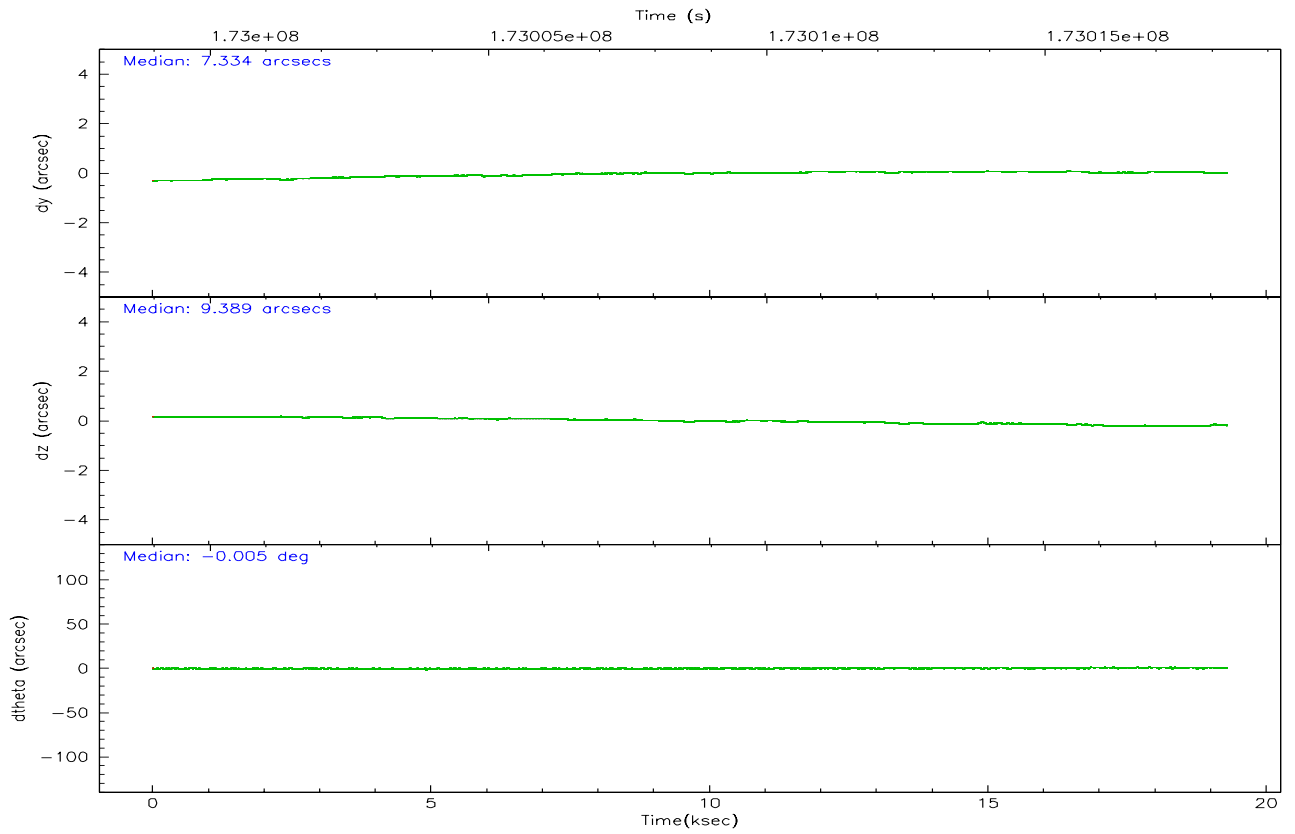
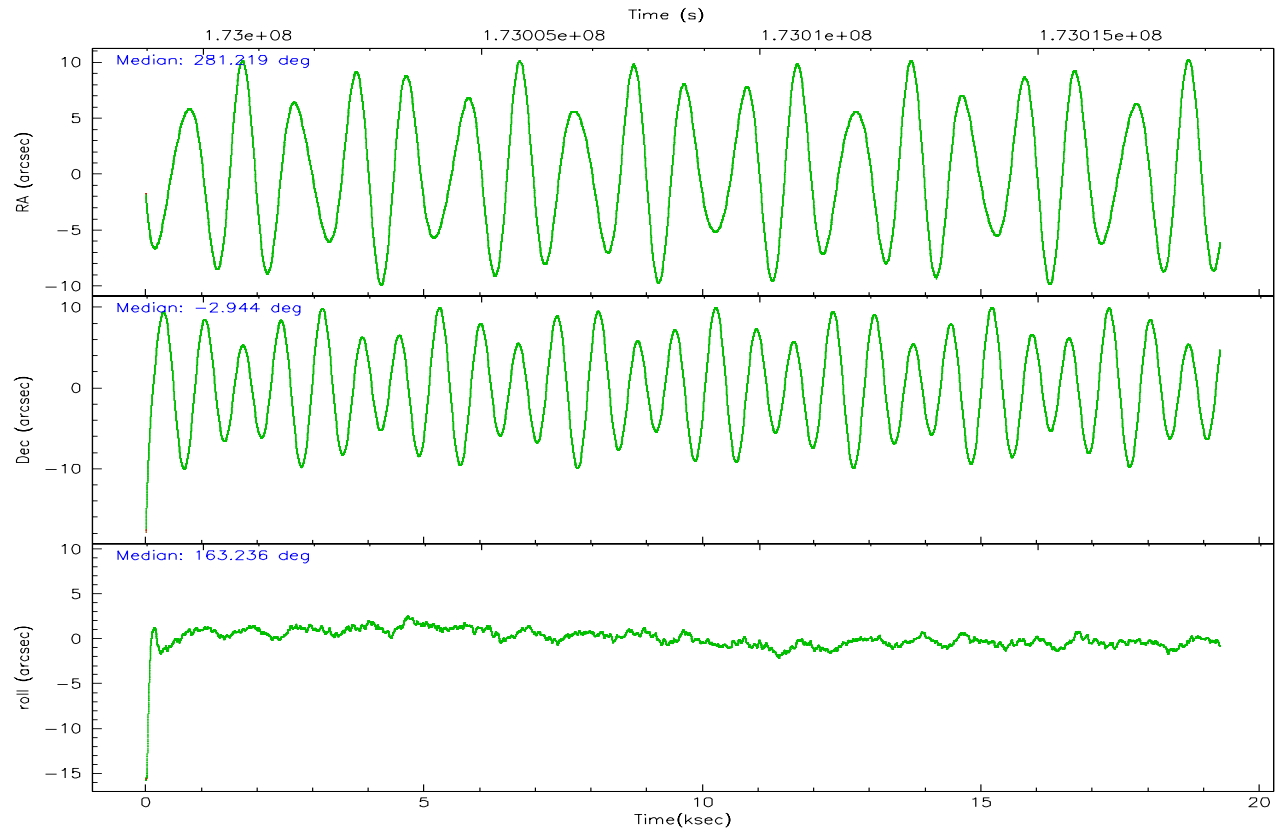
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 663 |
| | 3% |
| grade 1 events | 13 |
| | 0% |
| grade 2 events | 2056 |
| | 9% |
| grade 3 events | 892 |
| | 4% |
| grade 4 events | 896 |
| | 4% |
| grade 5 events | 1460 |
| | 7% |
| grade 6 events | 4431 |
| | 21% |
| grade 7 events | 10340 |
| | 49% |

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 | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | 1/8 | 1/8 |
| Pointing RA | 281.245319 | 281.2188502715132 | Subarray start row | 0 | 449 |
| Pointing Dec | -2.937096 | -2.943706764732404 | Subarray row count | 1024 | 128 |
| Pointing Roll | 163.083355 | 163.2386130849606 | 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 | 172999277.184000 | 172998252.87209 | | | |
| Observation start date | 2003-06-26T07:20:13 | 2003-06-26T07:04:12 | | | |
| Observation end time | 173018277.184000 | 173019490.36049 | | | |
| Observation end date | 2003-06-26T12:36:53 | 2003-06-26T12:58:10 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



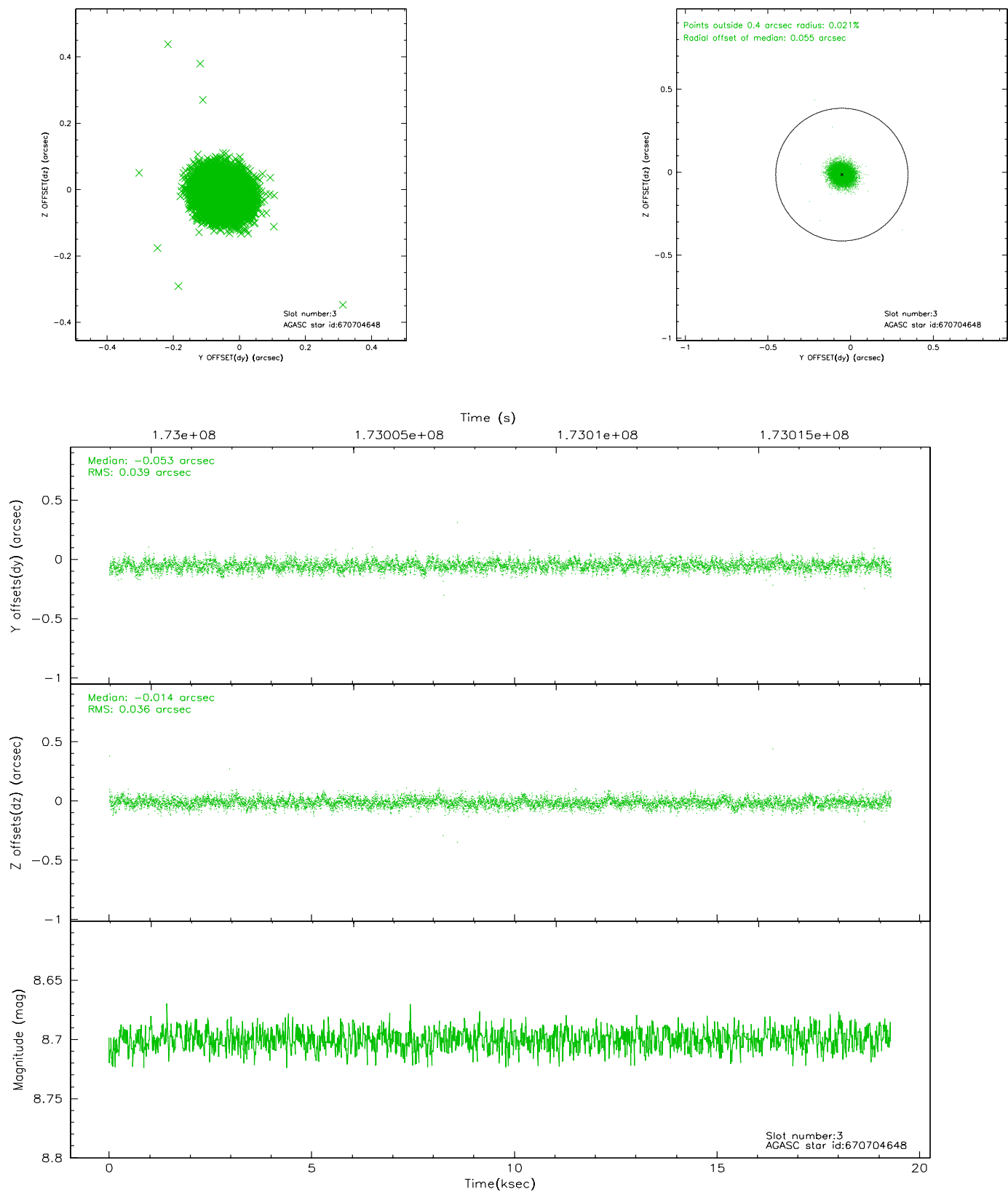


Slot Statistics

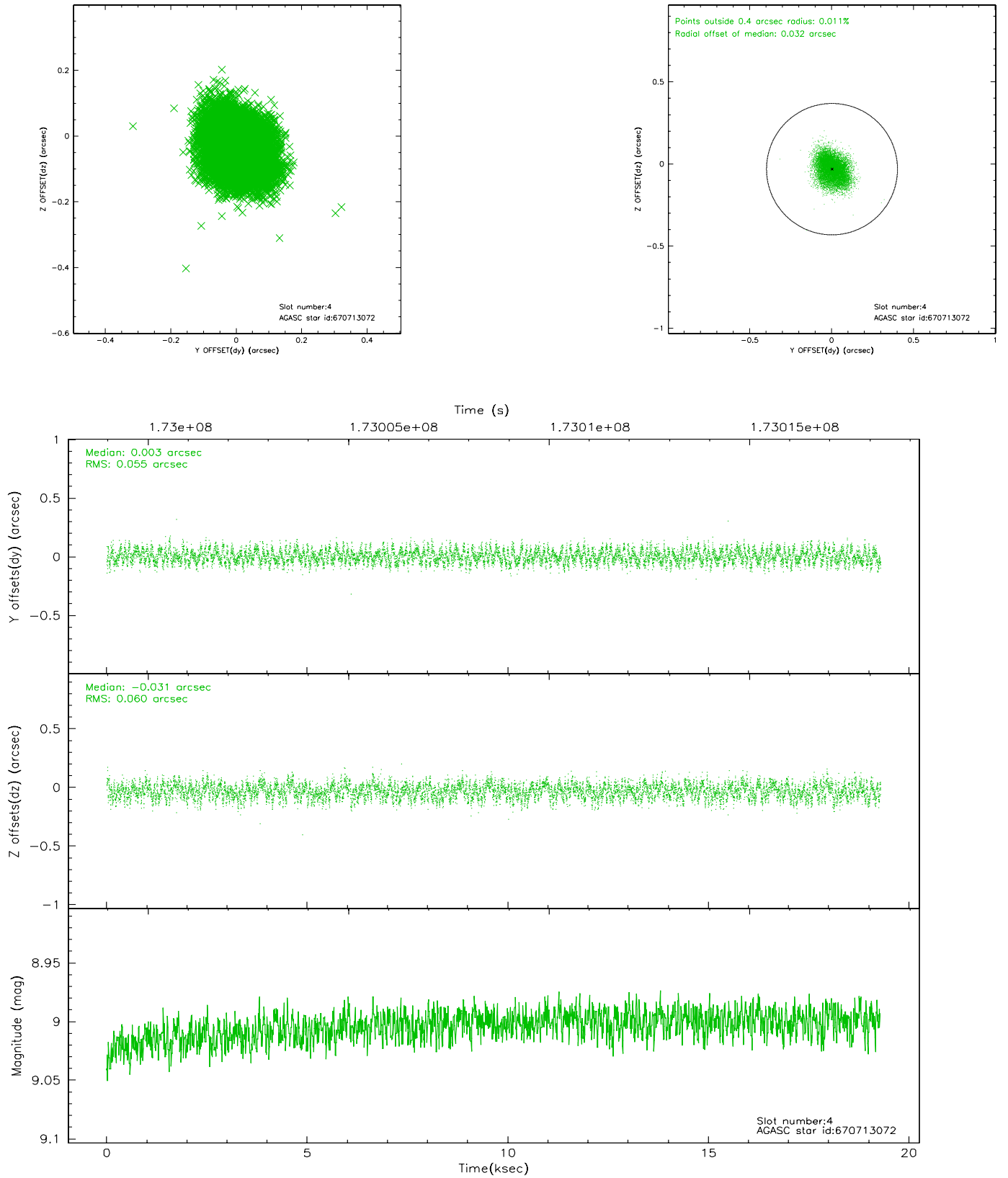
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 4706 | -0.021 | -0.002 | 0.008 | 0.014 | 0.000000 | 0.000000 | -760.04 | -1730.63 |
| 1 | FID | ACIS-S-4 | 7.20 | 4706 | 0.016 | 0.010 | 0.006 | 0.011 | 0.000000 | 0.000000 | 2153.16 | 177.70 |
| 2 | FID | ACIS-S-5 | 7.23 | 4706 | -0.027 | 0.000 | 0.010 | 0.018 | 0.000000 | 0.000000 | -1812.65 | 171.53 |
| 3 | GUIDE | 670704648 | 8.70 | 9412 | -0.053 | -0.014 | 0.055 | 0.091 | 280.736676 | -2.935747 | 1750.82 | 528.01 |
| 4 | GUIDE | 670713072 | 9.00 | 9408 | 0.003 | -0.031 | 0.088 | 0.136 | 281.205407 | -3.604132 | -561.47 | 2339.22 |
| 5 | GUIDE | 670713328 | 7.56 | 9412 | -0.114 | -0.022 | 0.056 | 0.087 | 280.824681 | -3.187771 | 1183.71 | 1303.89 |
| 6 | GUIDE | 670714008 | 9.02 | 9412 | 0.032 | 0.058 | 0.075 | 0.121 | 281.129237 | -3.153193 | 172.97 | 865.99 |
| 7 | GUIDE | 670830264 | 8.74 | 9410 | 0.129 | 0.008 | 0.072 | 0.115 | 281.361536 | -3.231556 | -707.99 | 892.80 |

2.4 Star Slots

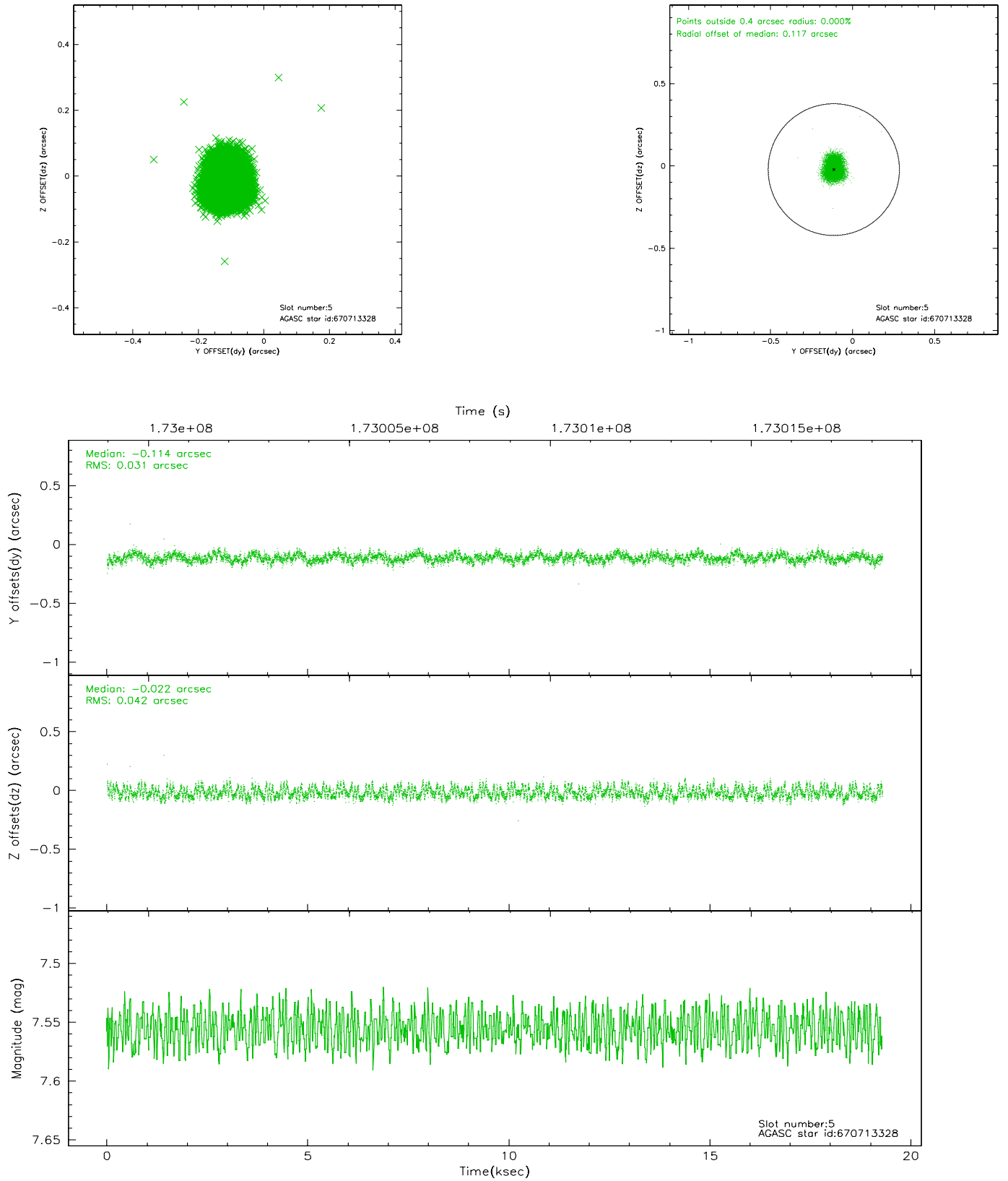
2.4.1 Slot 3



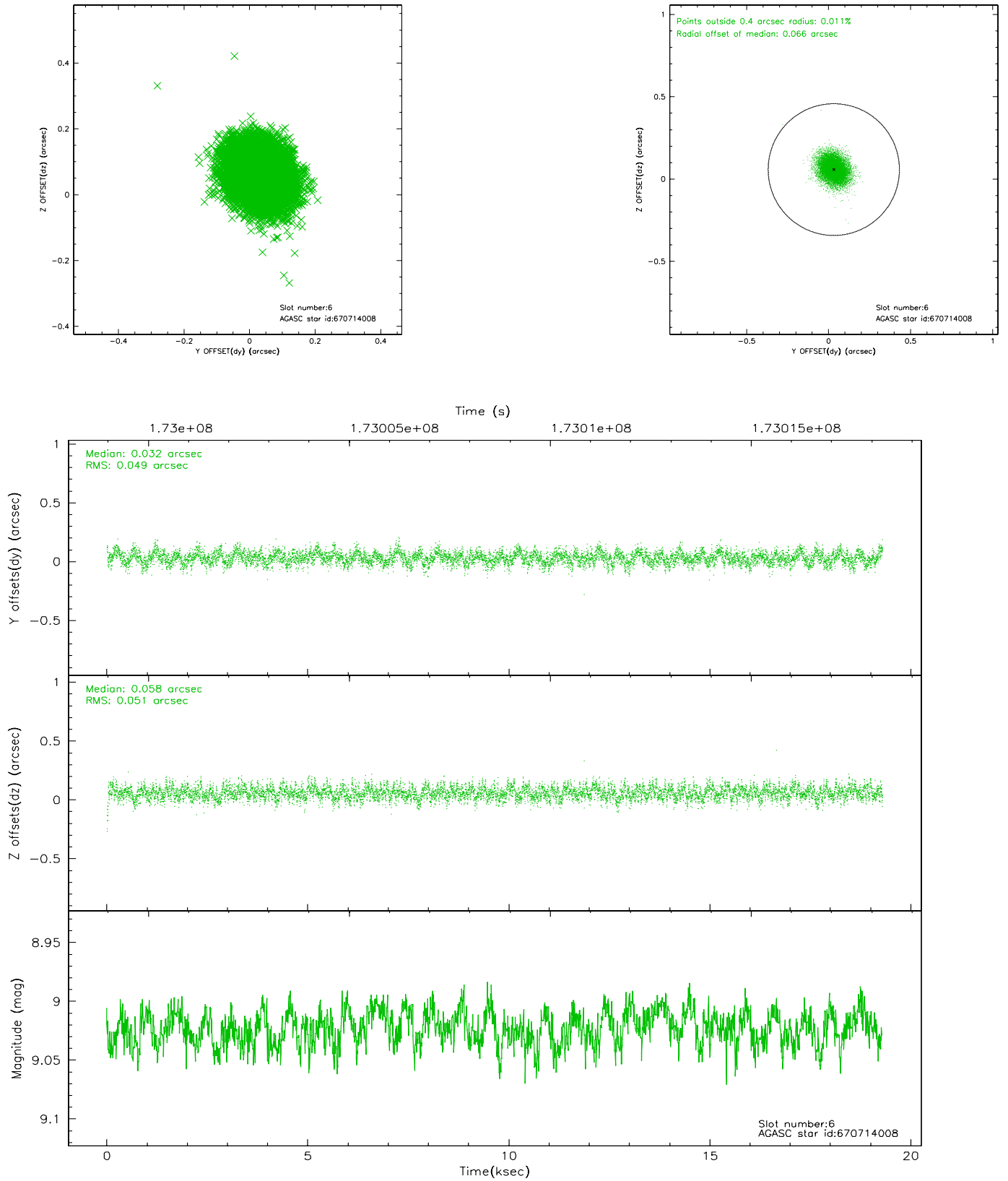
2.4.2 Slot 4



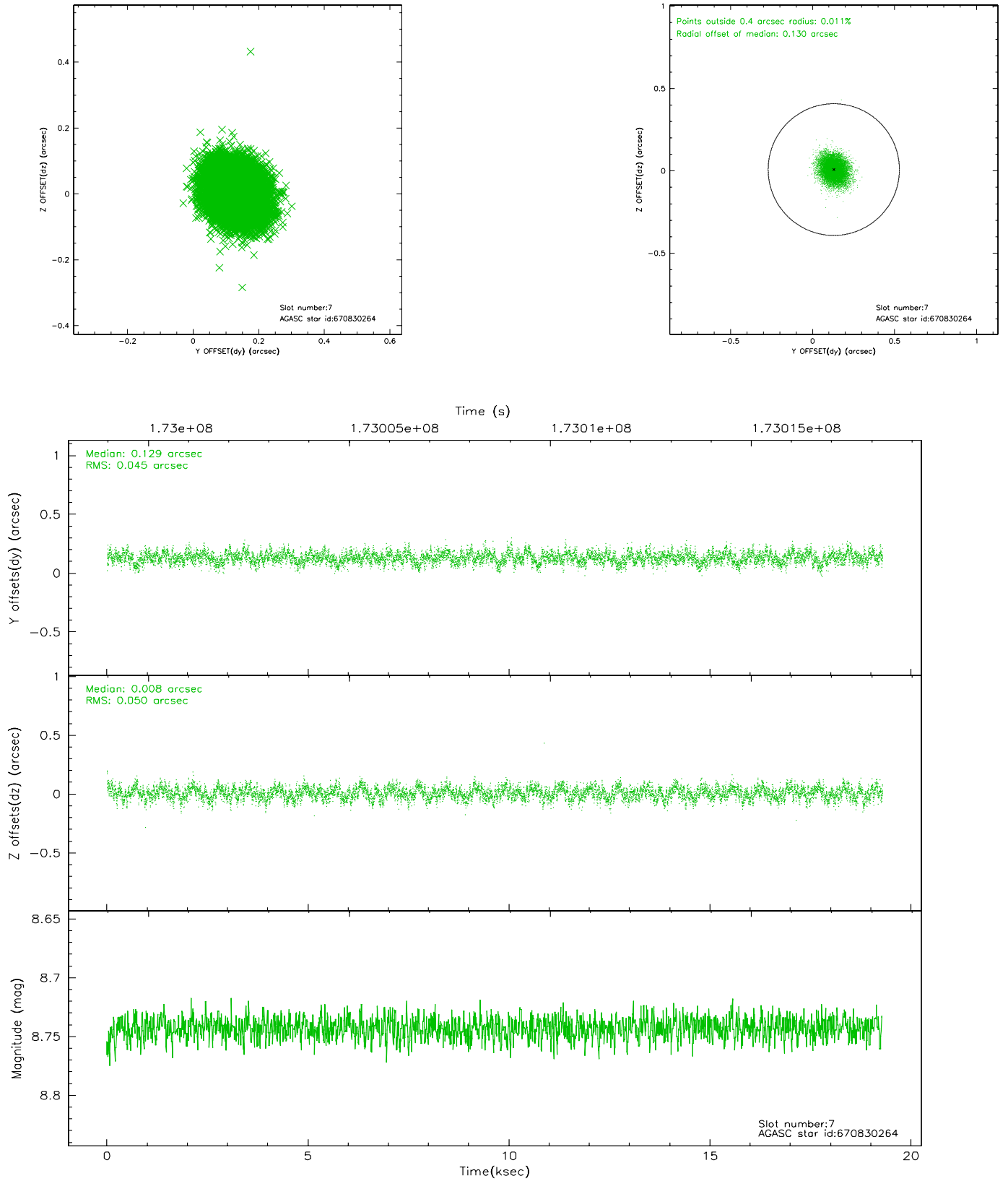
2.4.3 Slot 5



2.4.4 Slot 6

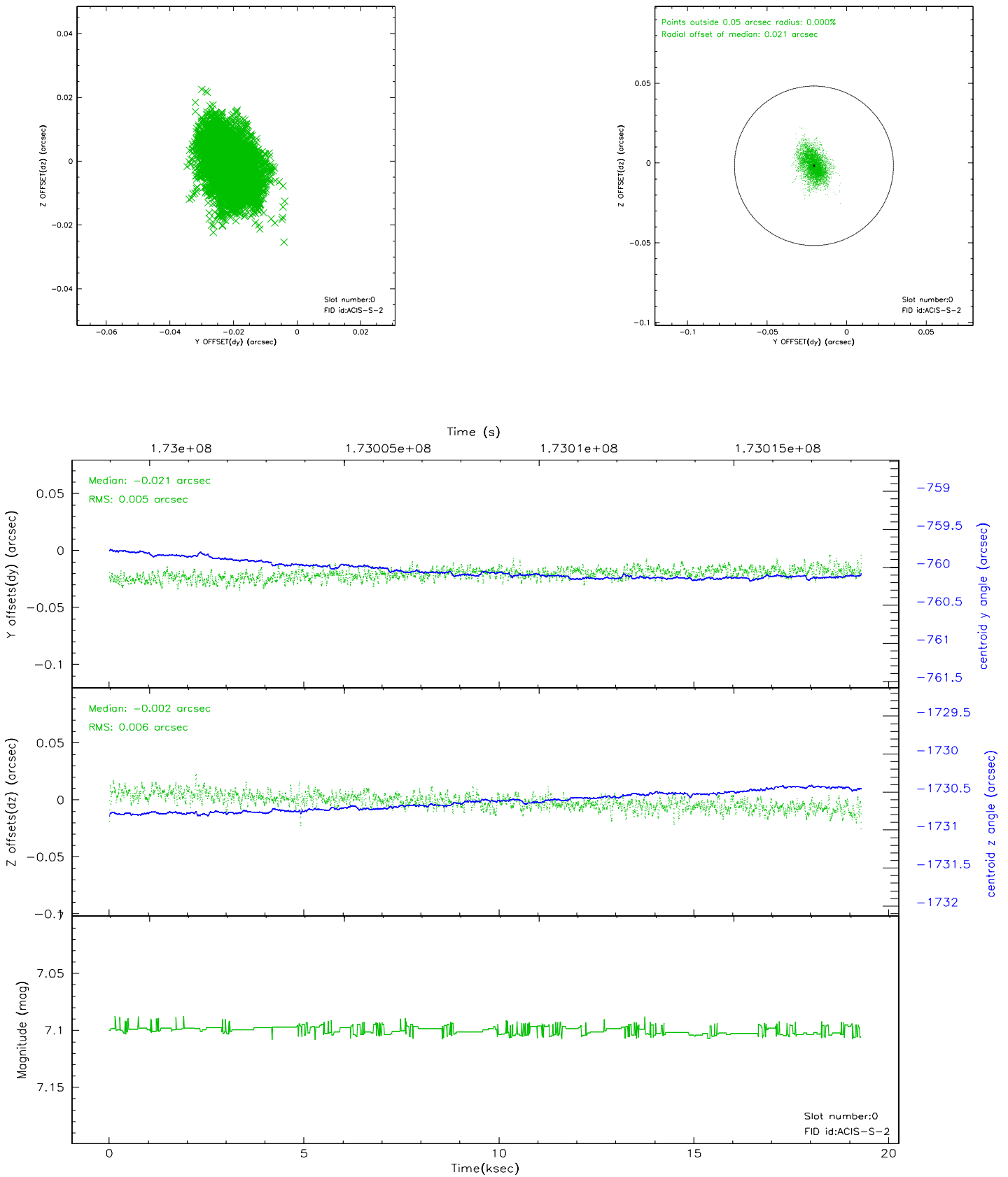


2.4.5 Slot 7

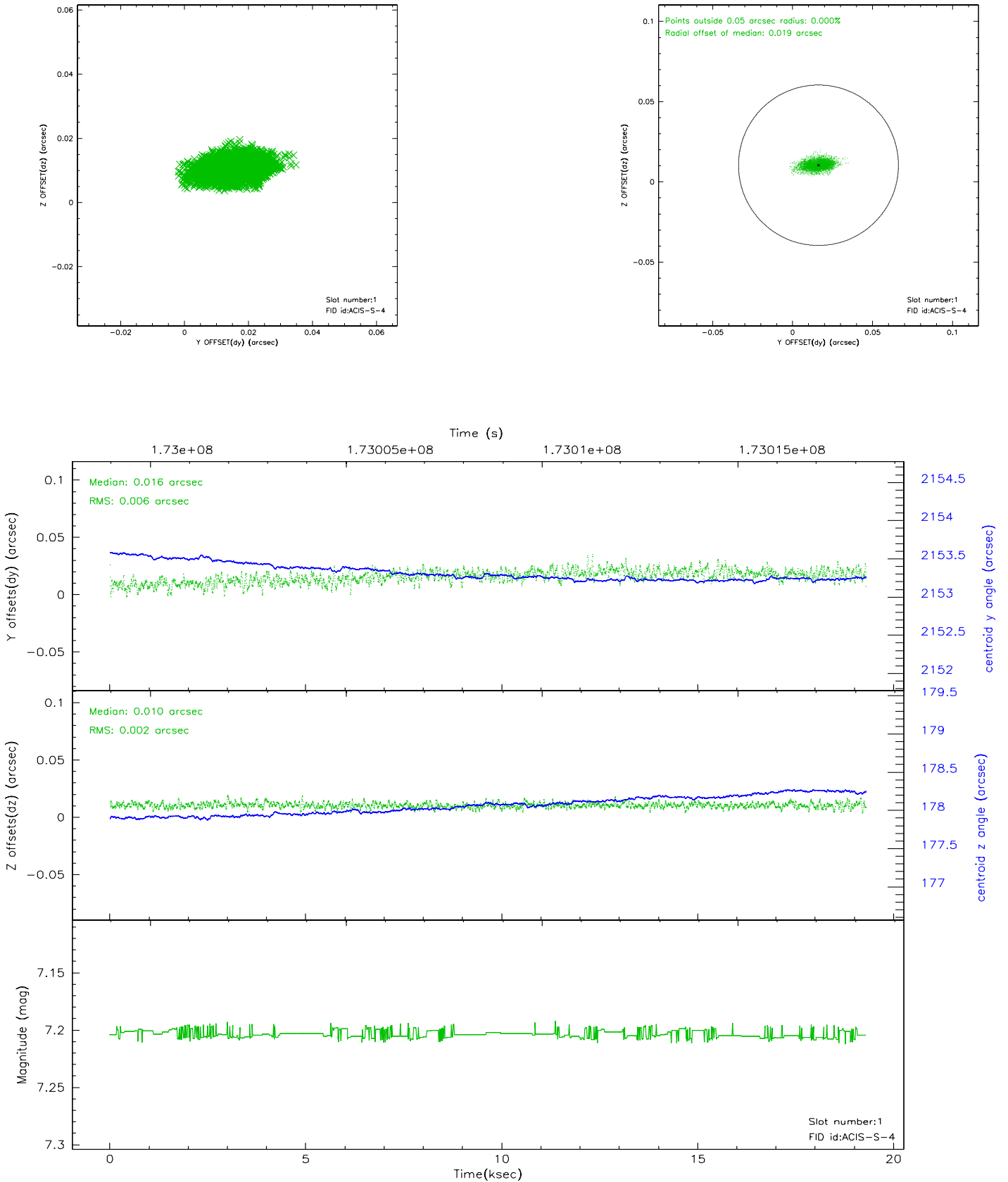


2.5 FID Slots

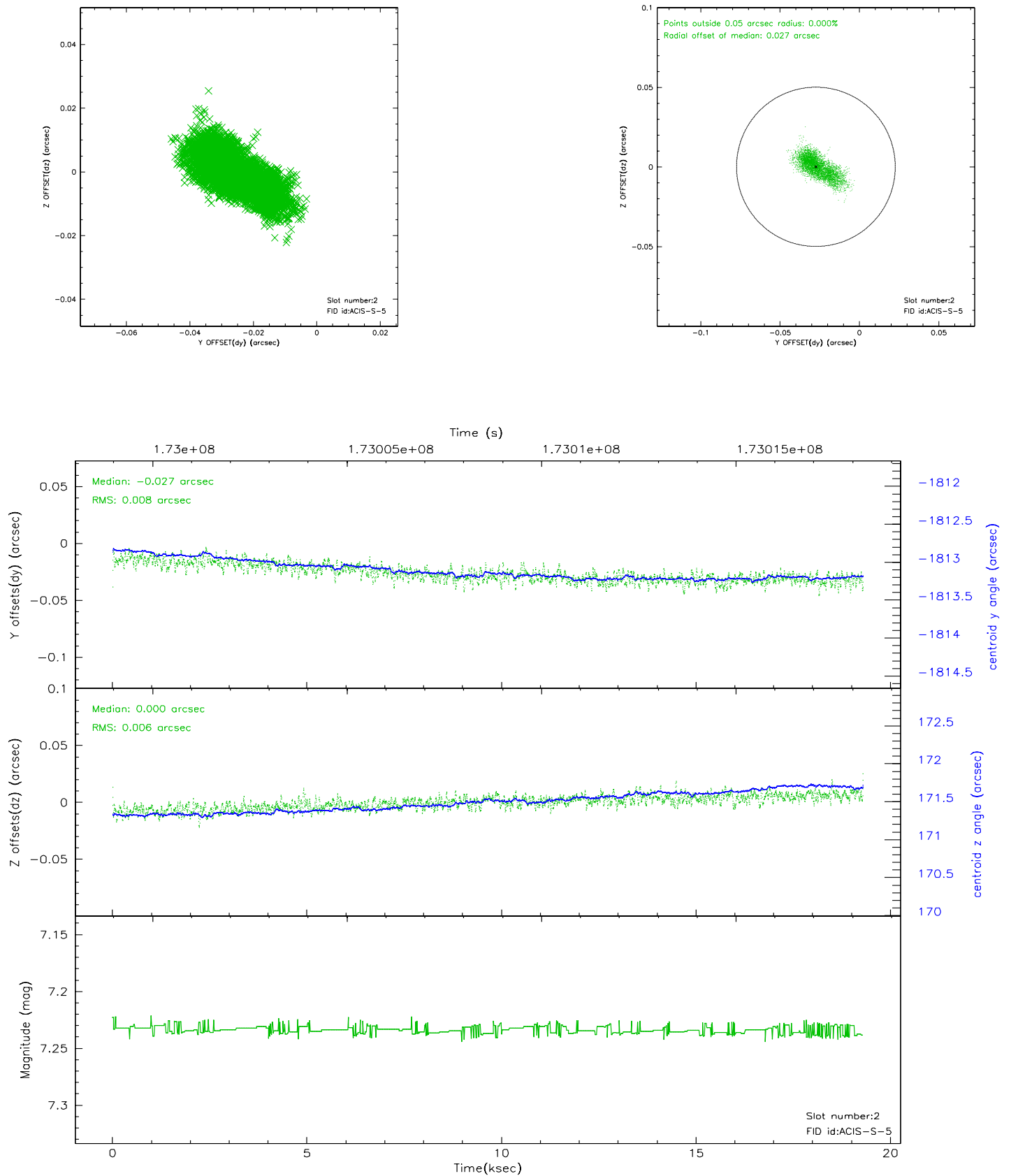
2.5.1 Slot 0



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) | 2006.08.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 19.291 |

A.2 Comments

The ACIS focal plane temperature was above calibration limits for the first 2 ksec of the observation.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.