

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4132 - L2 Version 3
Chandra X-Ray Center

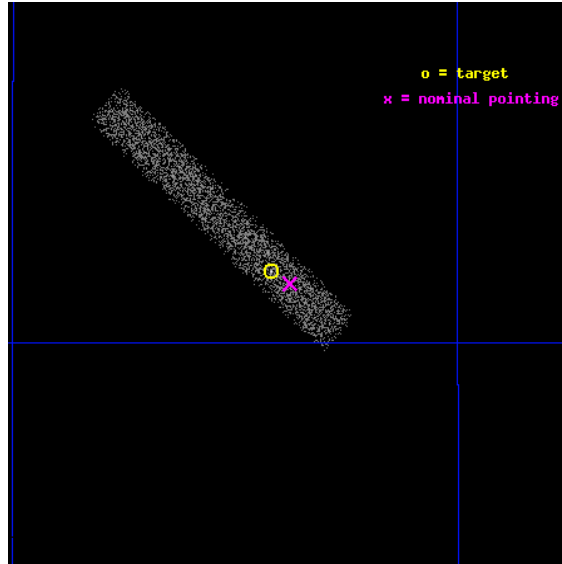
L2 Processing Date : Oct 21 2012

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1 Front

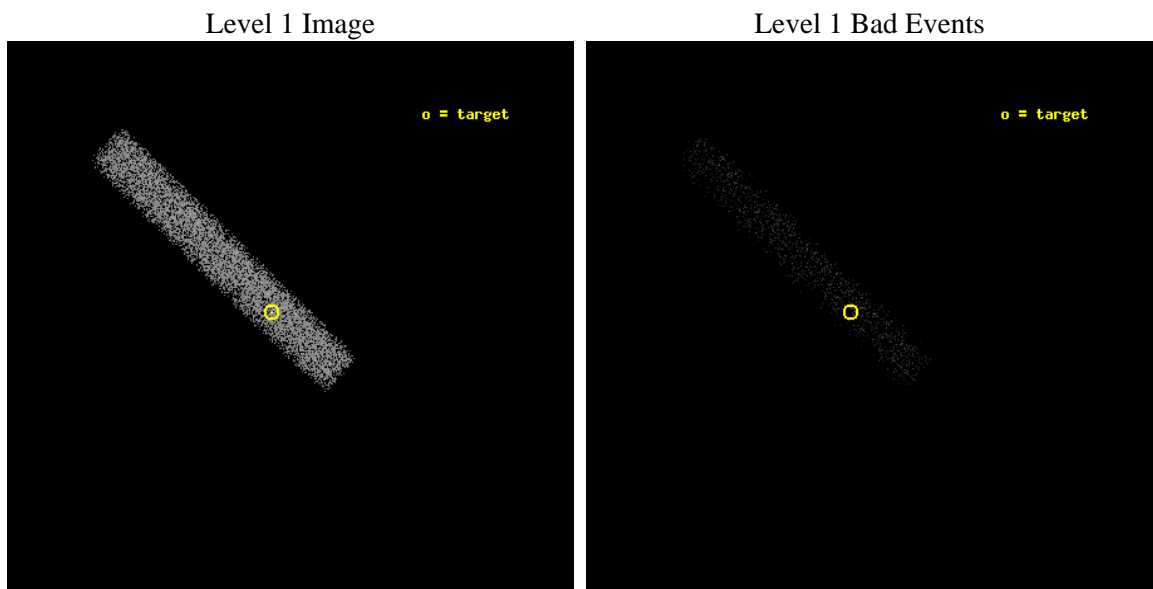
| | | |
|----------|--|---|
| seq_num | 700811 | Sequence number |
| obs_id | 4132 | Observation id |
| title | CHANDRA OBSERVATIONS OF THE FIRST SAMPLE OF RADIO-LOUD NARROW LINE SEYFERT I GALAXIES | Proposal title |
| observer | Dr. Sally Laurent-Muehleisen | Principal investigator |
| object | FIRST J070625+390151 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 106.604583 | Observer's specified target RA [deg] |
| dec_targ | 39.031 | Observer's specified target Dec [deg] |
| ra_nom | 106.59434788873 | Nominal RA [deg] |
| dec_nom | 39.025602101475 | Nominal Dec [deg] |
| roll_nom | 224.20909563988 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 10588.953967512 | Sum of GTIs [s] |
| livetime | 9603.6223177142 | Livetime [s] |
| ontime7 | 10588.953967512 | Sum of GTIs [s] |
| l2events | 5228 | Number of level 2 events |



2 OBI

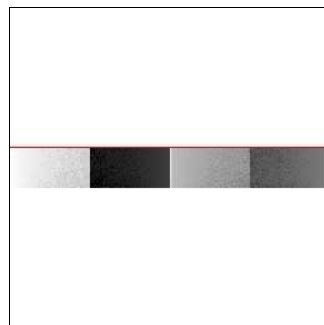
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 10588.953967512 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime7 | 10588.953967512 | Sum of GTIs [s] |
| date | 2012-10-21T03:12:47 | Date and time of file creation | l1events | 12143 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

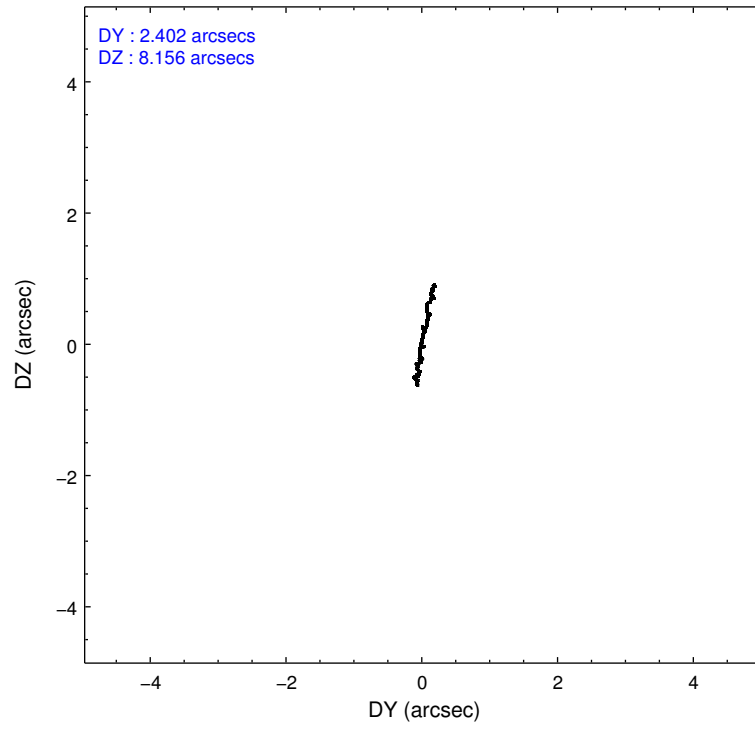
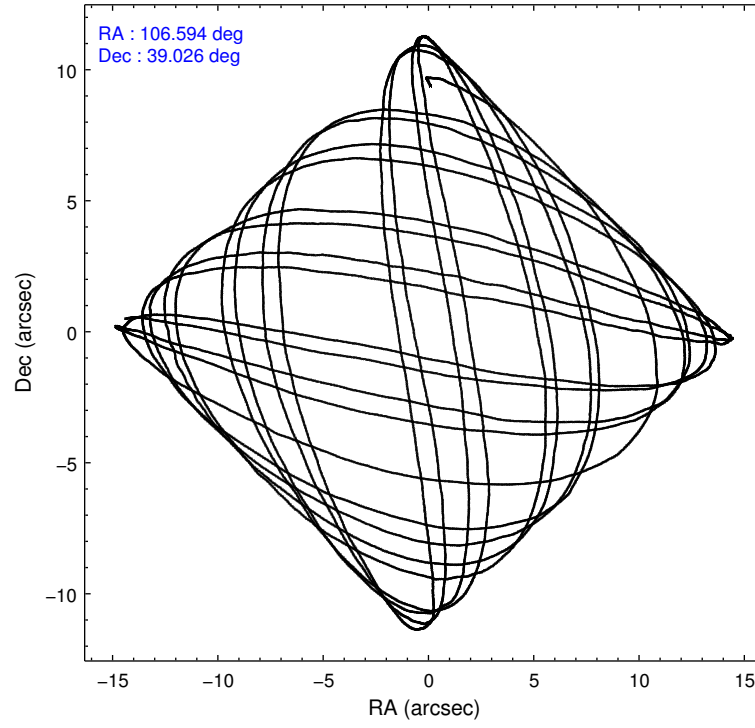
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 12143 |
| rejected events | 6718 |
| rejected % | 55% |

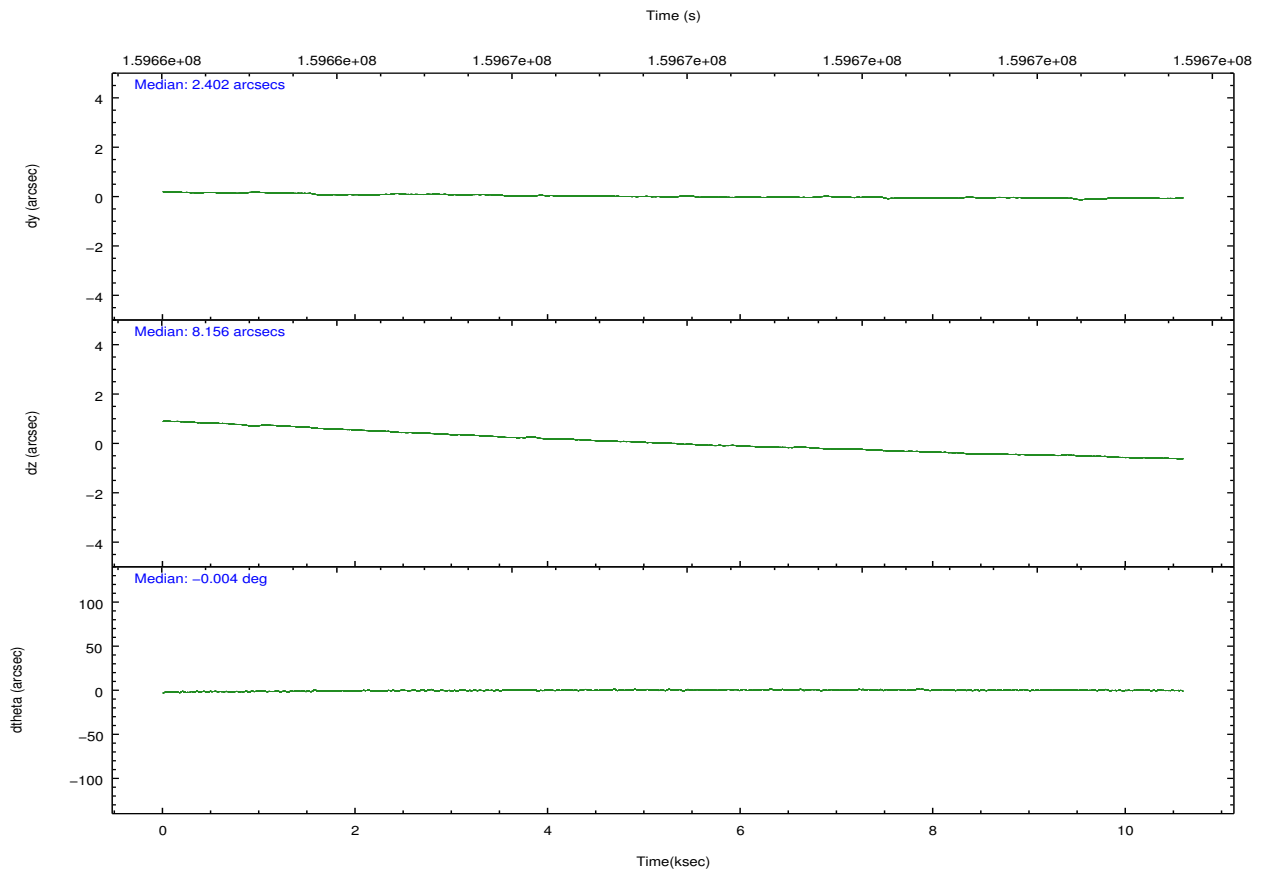
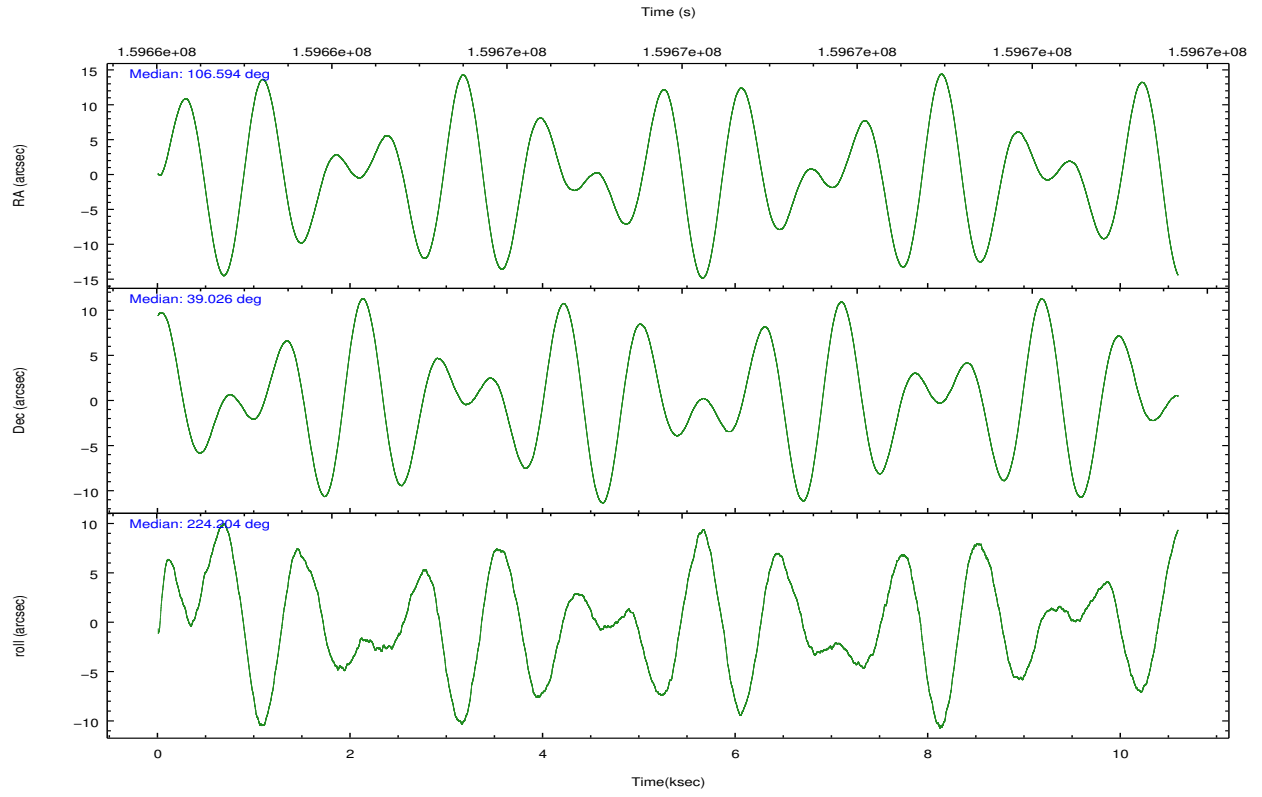
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 569 |
| | 4% |
| grade 1 events | 14 |
| | 0% |
| grade 2 events | 1035 |
| | 8% |
| grade 3 events | 716 |
| | 5% |
| grade 4 events | 703 |
| | 5% |
| grade 5 events | 1133 |
| | 9% |
| grade 6 events | 2541 |
| | 20% |
| grade 7 events | 5432 |
| | 44% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| 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 |
| [deg] Pointing RA | 106.603352 | 106.5943478887255 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | 39.051878 | 39.02560210147494 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 224.046801 | 224.2090956398801 | Subarray row count | 128 | 128 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | [s] Primary exposure time | 0.000000 | 0.4 |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 159663144.184000 | 159661977.30907 | | | |
| Observation start date | 2003-01-22T22:51:20 | 2003-01-22T22:32:57 | | | |
| [s] Observation end time (MET) | 159673144.184000 | 159673765.32207 | | | |
| Observation end date | 2003-01-23T01:38:00 | 2003-01-23T01:49:25 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



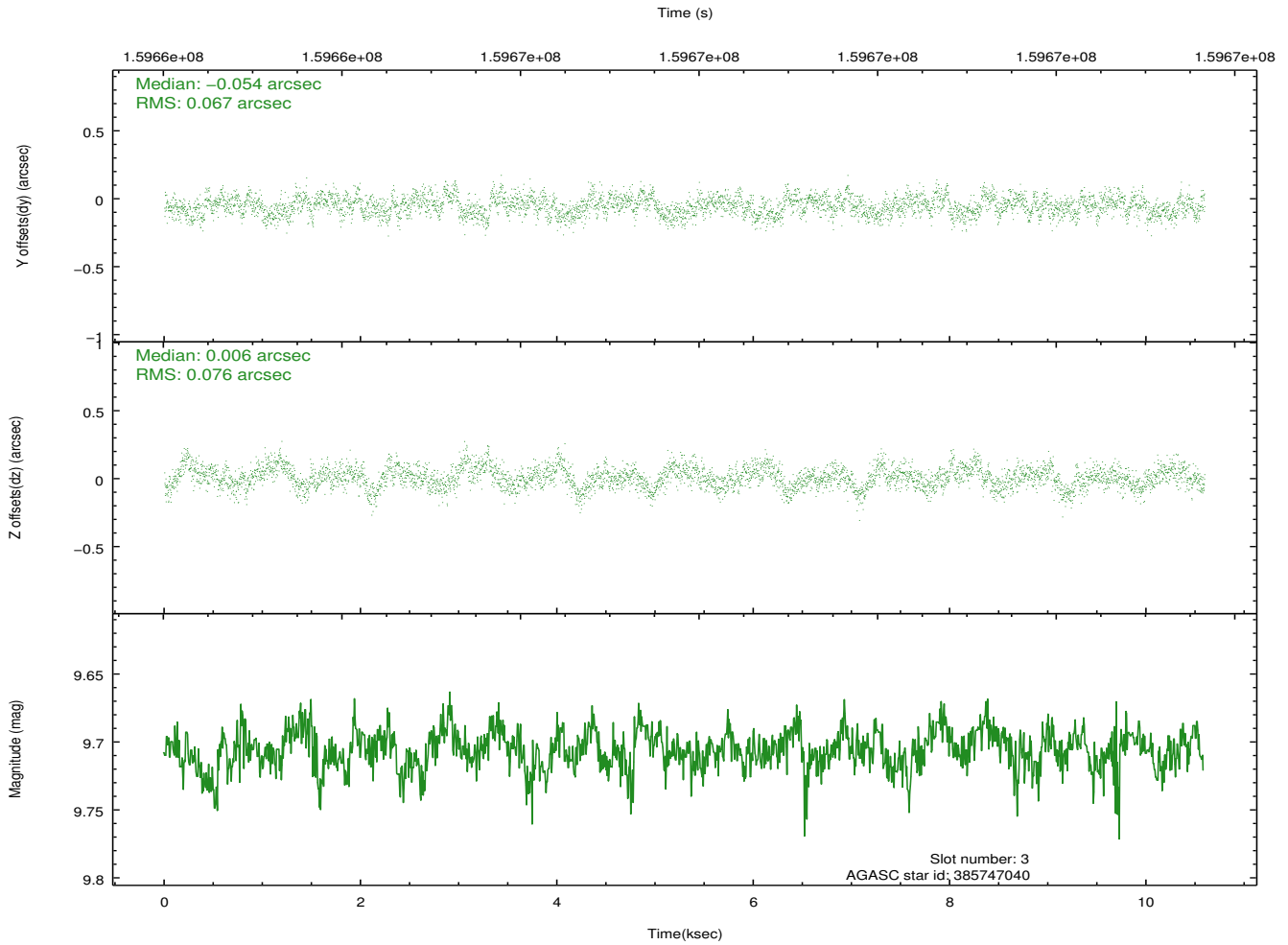
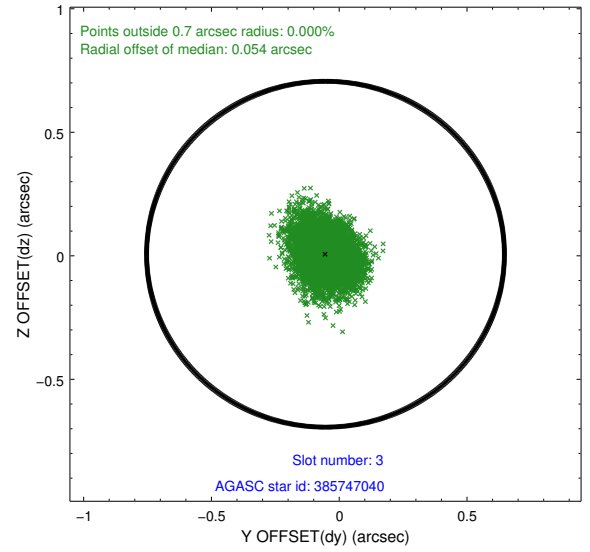
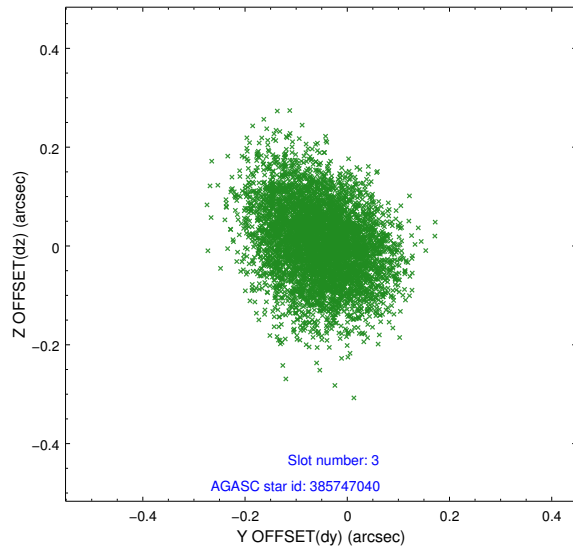


Slot Statistics

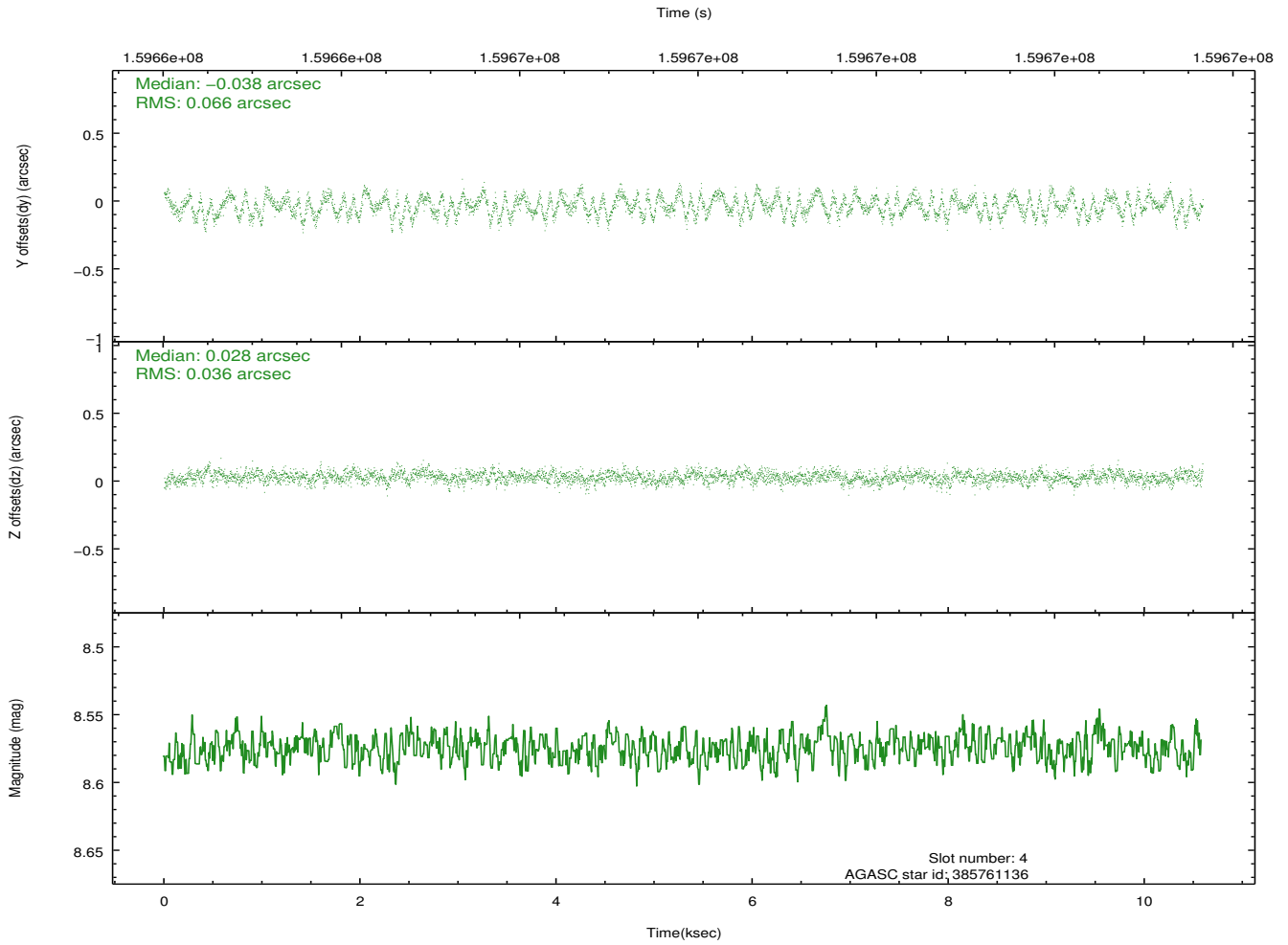
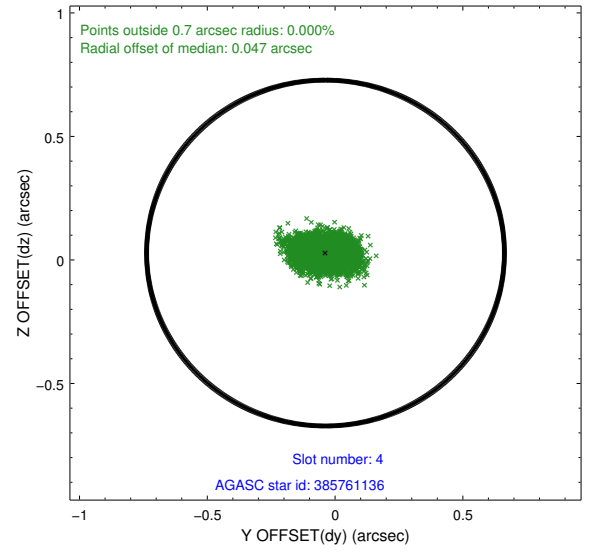
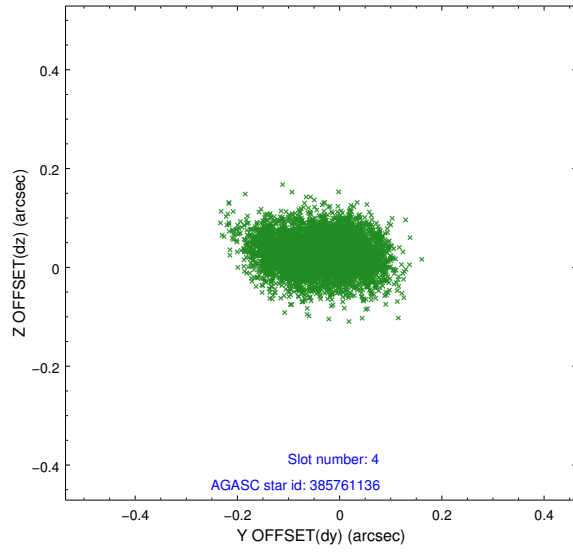
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 2581 | -0.019 | -0.007 | 0.008 | 0.013 | 0.000000 | 0.000000 | -755.07 | -1729.36 |
| 1 | FID | ACIS-S-4 | 7.21 | 2580 | -0.028 | 0.011 | 0.009 | 0.022 | 0.000000 | 0.000000 | 2157.98 | 178.63 |
| 2 | FID | ACIS-S-5 | 7.24 | 2580 | 0.014 | 0.005 | 0.009 | 0.015 | 0.000000 | 0.000000 | -1807.24 | 172.86 |
| 3 | GUIDE | 385747040 | 9.71 | 5159 | -0.054 | 0.006 | 0.109 | 0.176 | 106.661028 | 38.673708 | 830.22 | 1091.50 |
| 4 | GUIDE | 385761136 | 8.57 | 5164 | -0.038 | 0.028 | 0.081 | 0.129 | 105.584826 | 39.169366 | 1738.88 | -2291.28 |
| 5 | GUIDE | 386276784 | 9.74 | 5160 | -0.054 | -0.000 | 0.112 | 0.179 | 106.467774 | 39.793100 | -1585.02 | -2179.34 |
| 6 | GUIDE | 385750336 | 9.25 | 5162 | 0.145 | 0.040 | 0.080 | 0.136 | 106.470078 | 38.600557 | 1399.09 | 906.90 |
| 7 | GUIDE | 386270176 | 9.14 | 5163 | 0.001 | -0.072 | 0.074 | 0.121 | 107.297888 | 39.413362 | -2297.73 | 402.45 |

2.4 Star Slots

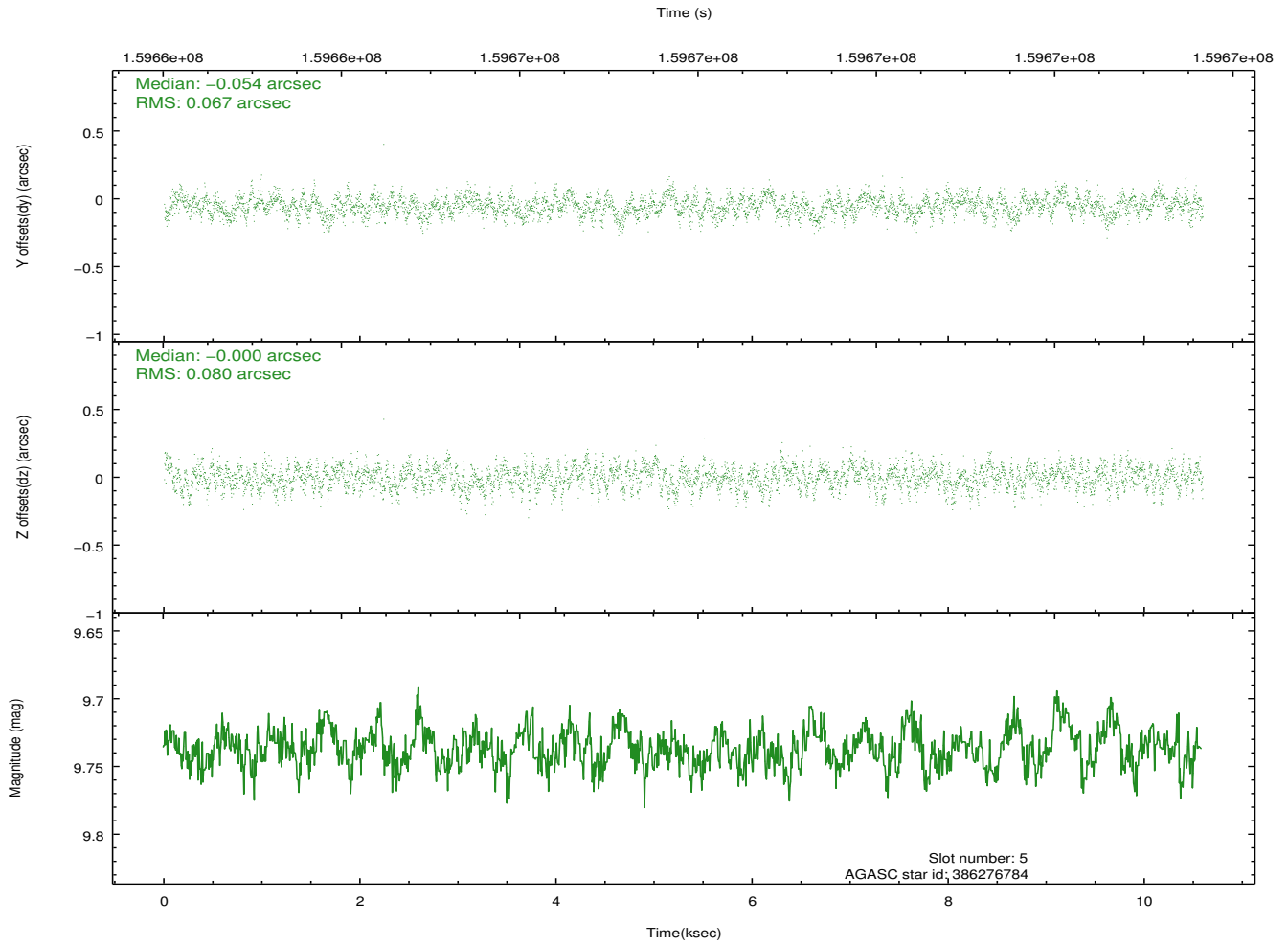
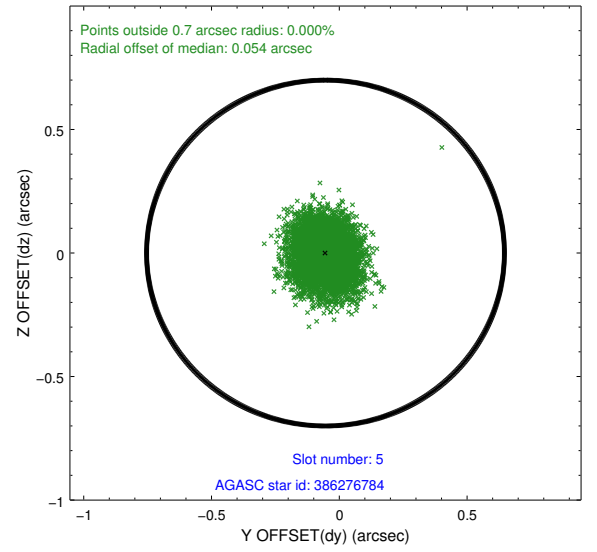
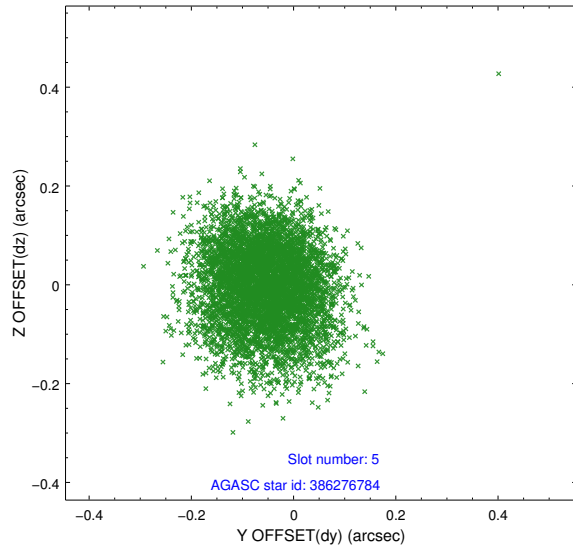
2.4.1 Slot 3



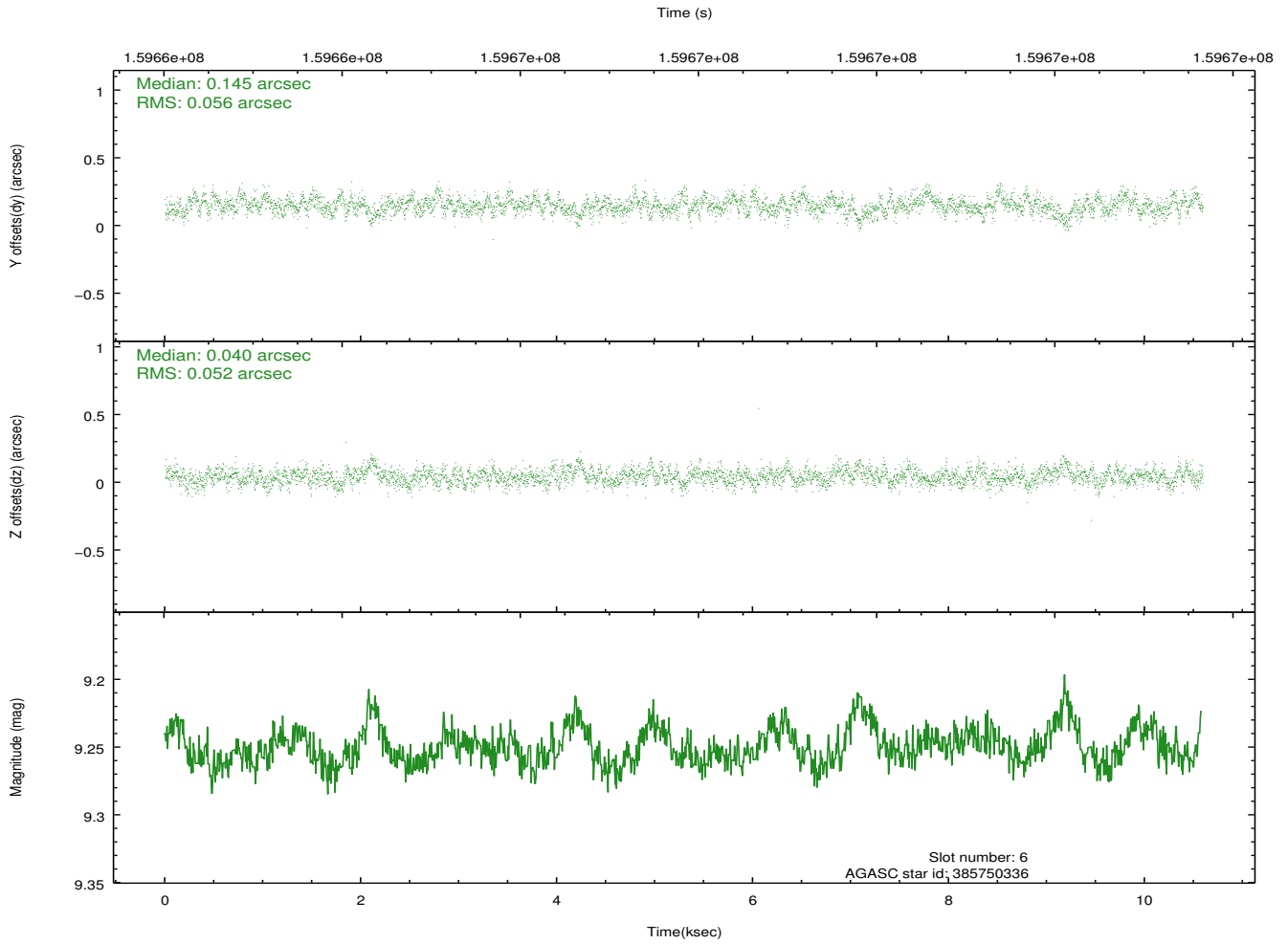
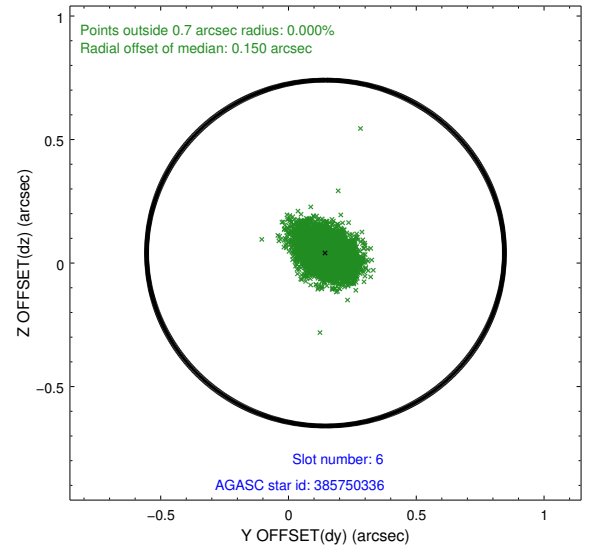
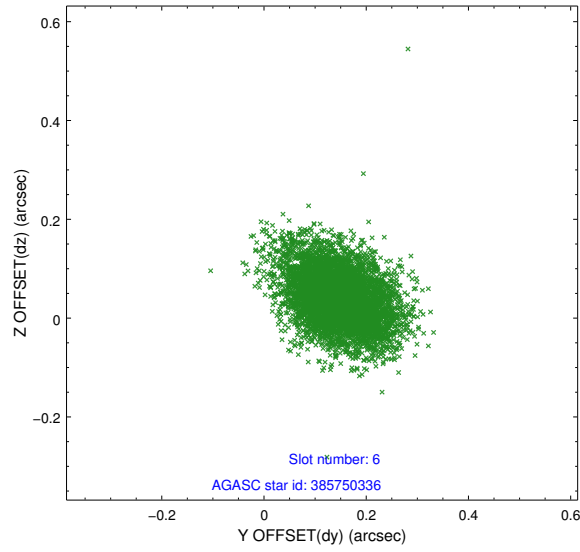
2.4.2 Slot 4



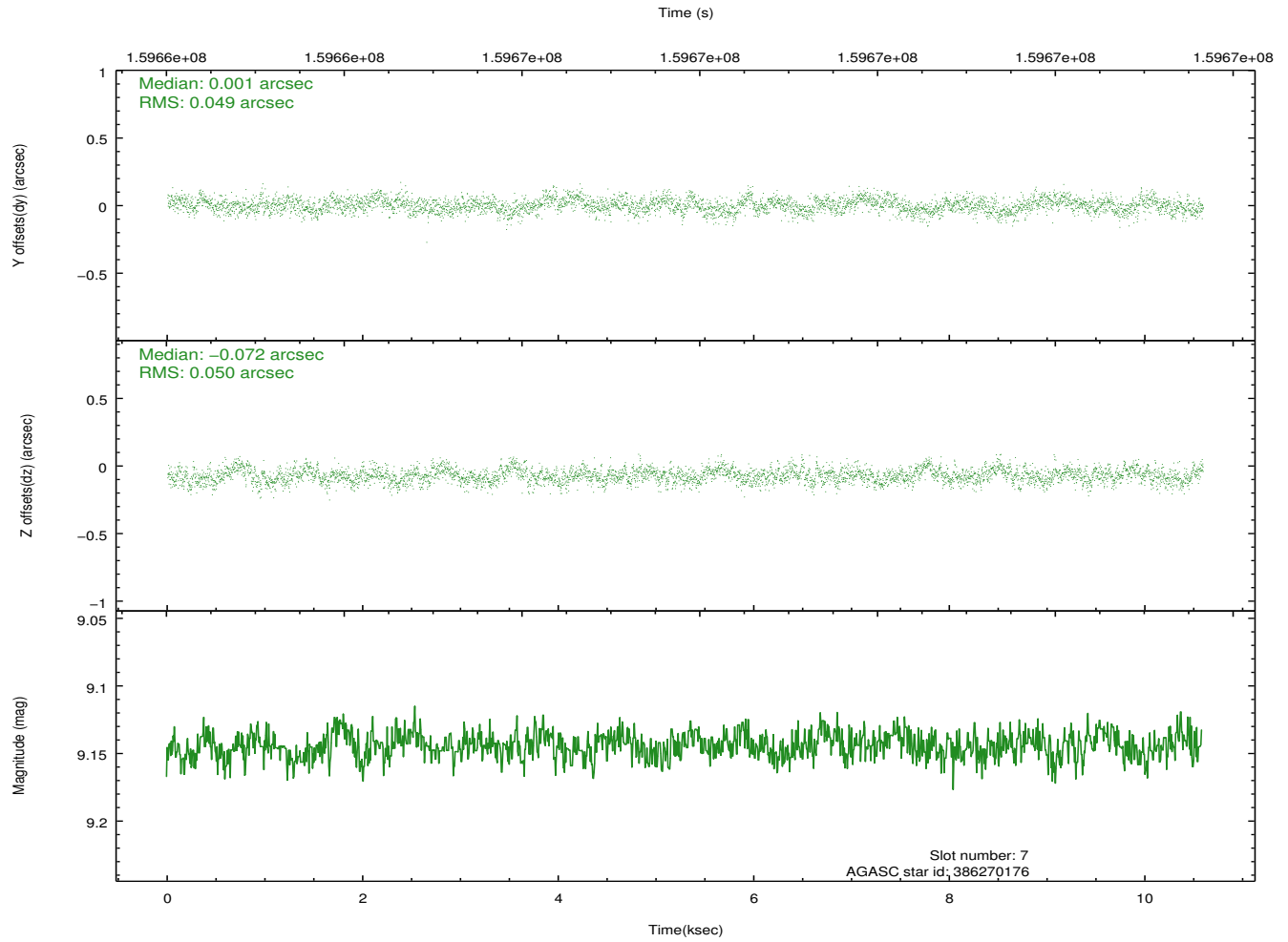
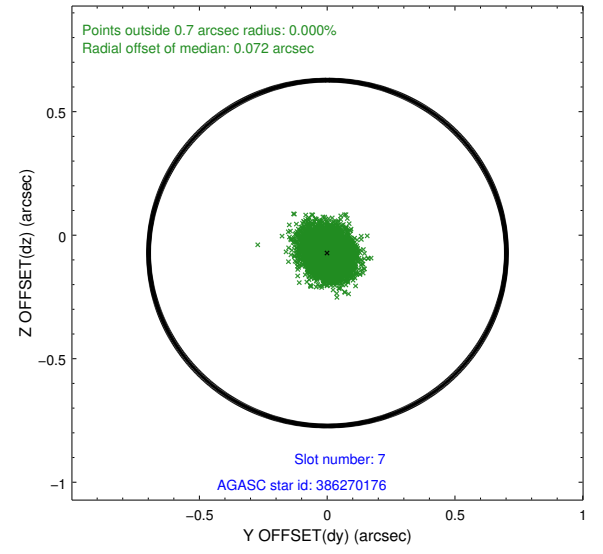
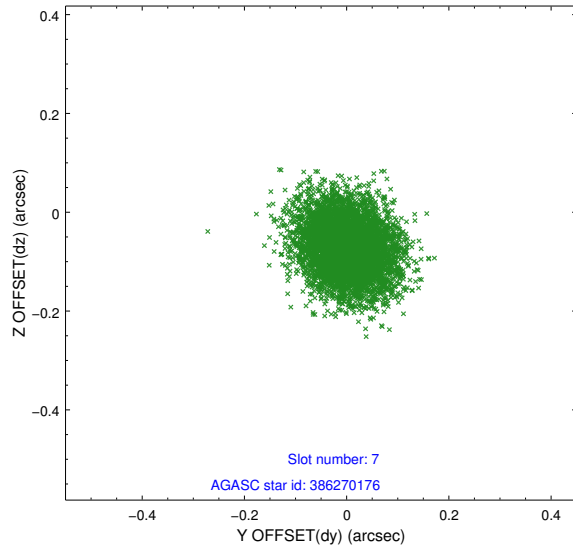
2.4.3 Slot 5



2.4.4 Slot 6

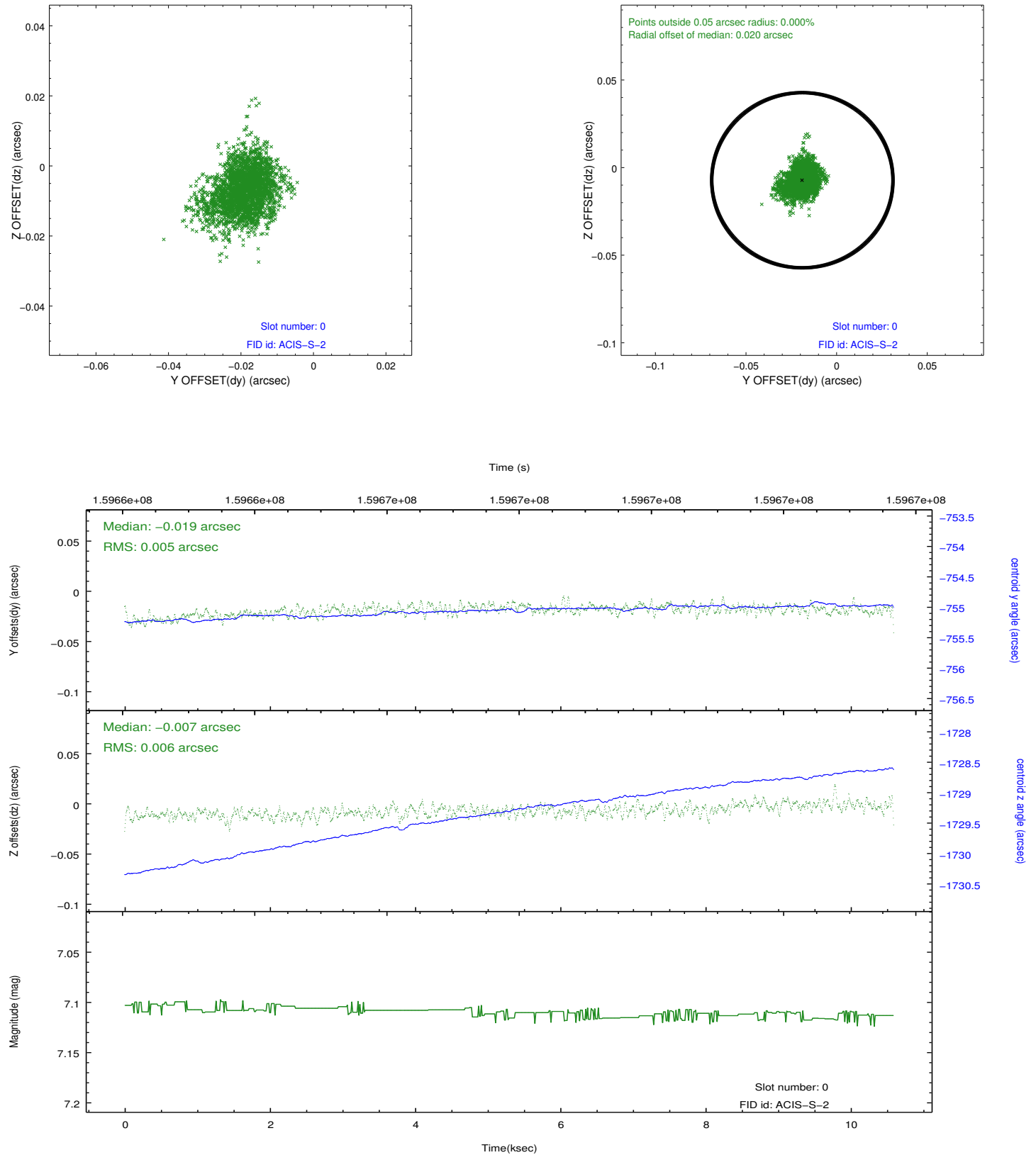


2.4.5 Slot 7

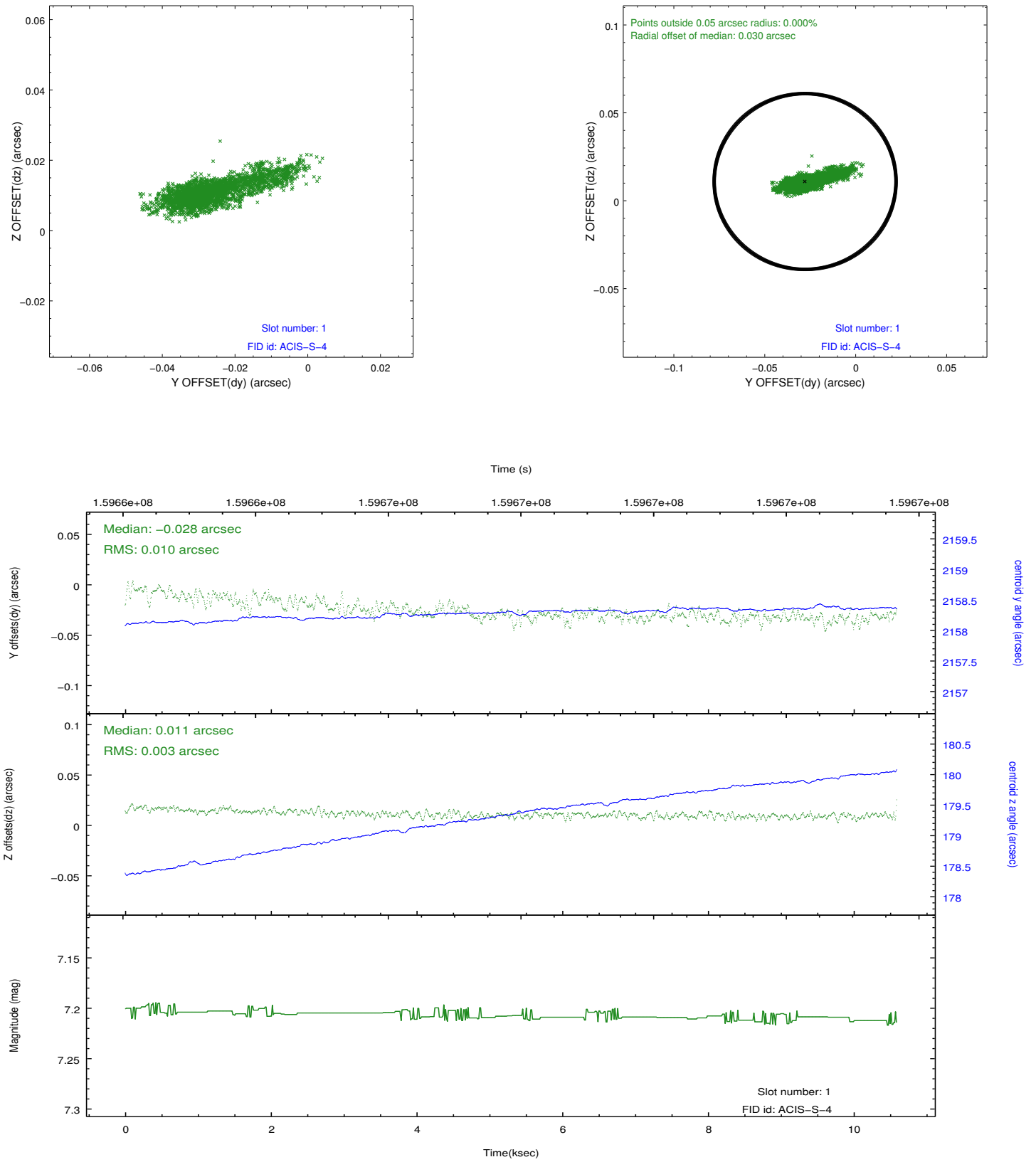


2.5 FID Slots

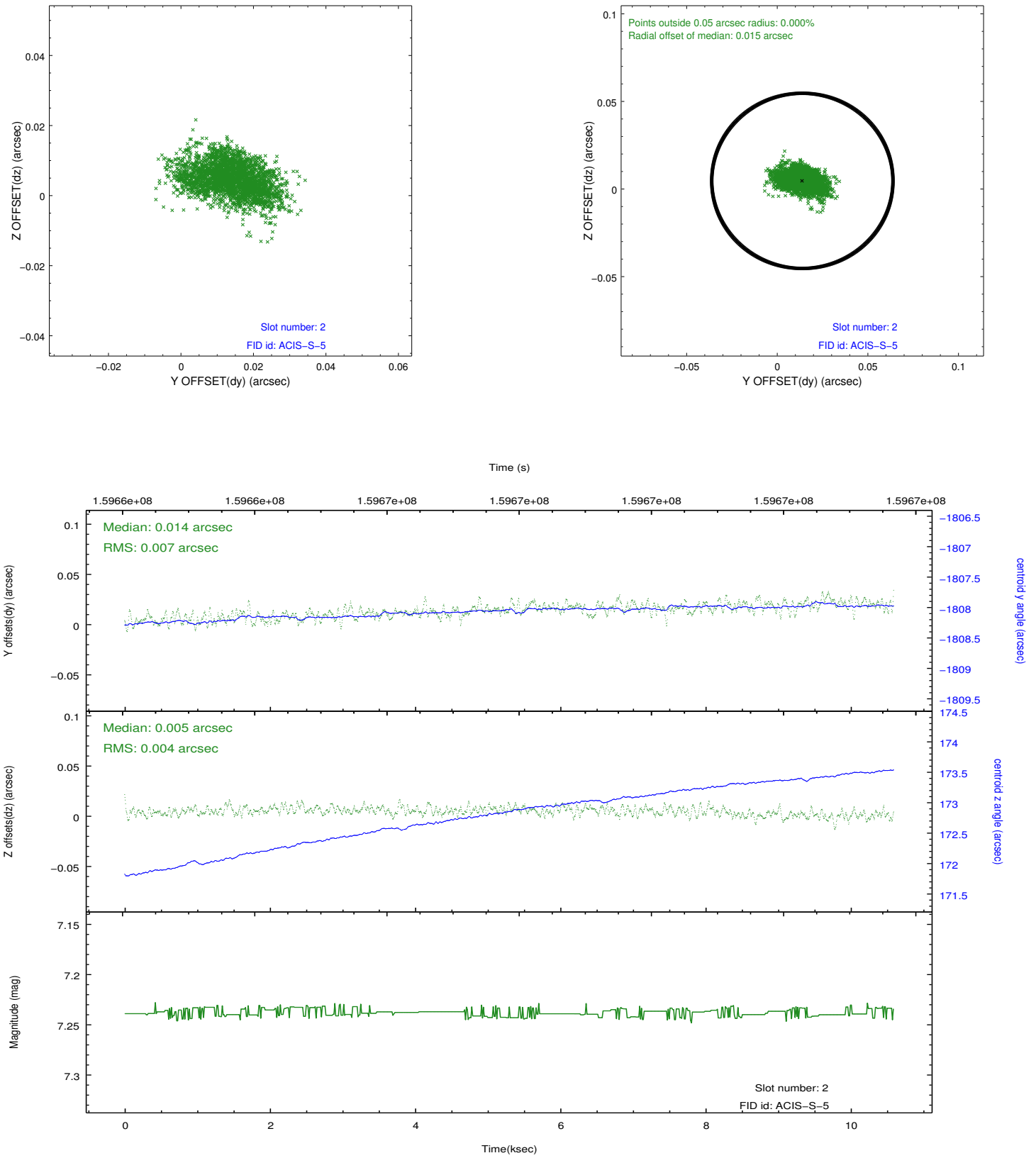
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.11.01 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.588 |

A.2 Comments