

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 4452 - L2 Version 3
Chandra X-Ray Center

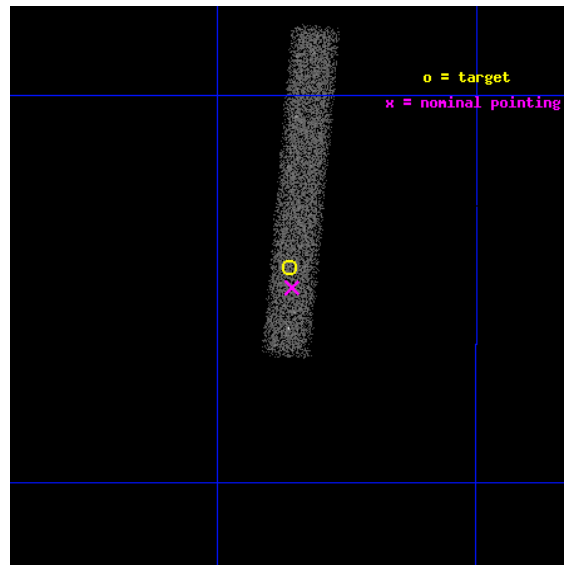
L2 Processing Date : Dec 6 2012

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1 Front

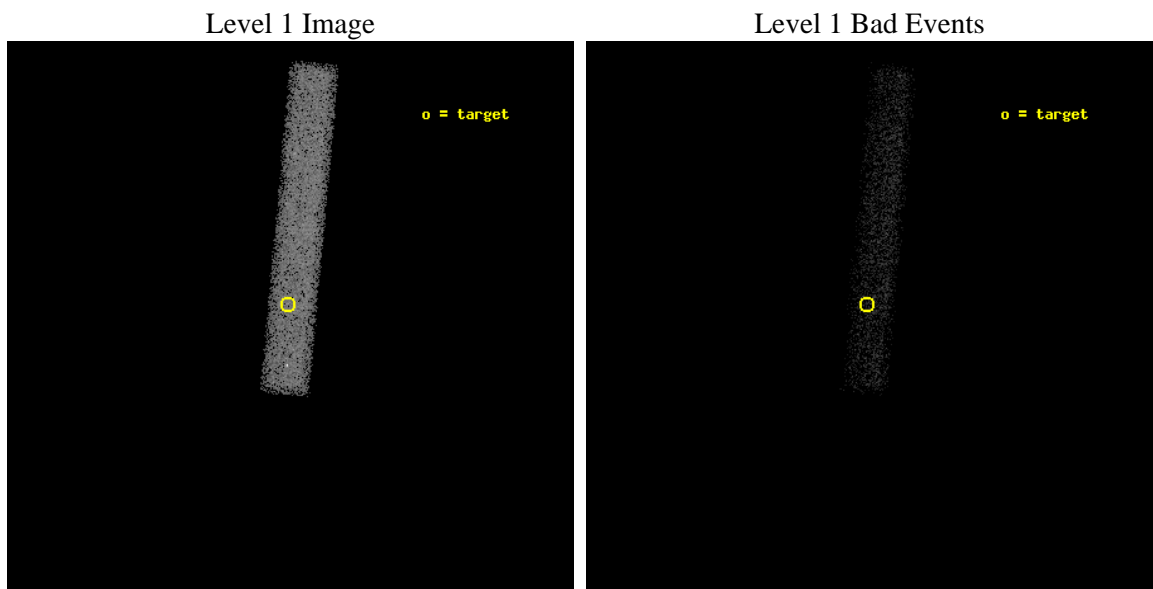
| | | |
|----------|---|---|
| seq_num | 400329 | Sequence number |
| obs_id | 4452 | Observation id |
| title | Following a black hole candidate soft X-ray transient returning to quiescence | Proposal title |
| observer | dr Peter Jonker | Principal investigator |
| object | V 4641 Sgr | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 274.84 | Observer's specified target RA [deg] |
| dec_targ | -25.407167 | Observer's specified target Dec [deg] |
| ra_nom | 274.83907428452 | Nominal RA [deg] |
| dec_nom | -25.416301440298 | Nominal Dec [deg] |
| roll_nom | 275.22163472881 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 20160.80030039 | Sum of GTIs [s] |
| livetime | 18284.781698159 | Livetime [s] |
| ontime7 | 20160.80030039 | Sum of GTIs [s] |
| l2events | 12384 | Number of level 2 events |



2 OBI

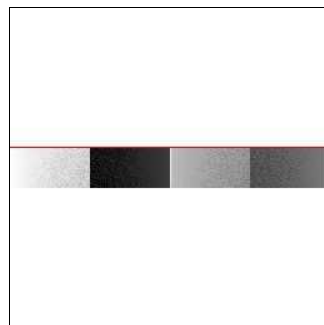
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|----------------|---|
| obi_num | 3 | Obi number | sched_exp_time | 20000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.5 | Processing system revision | ontime | 20160.80030039 | Sum of GTIs [s] |
| caldsver | 4.5.4 | | ontime7 | 20160.80030039 | Sum of GTIs [s] |
| date | 2012-12-06T22:56:52 | Date and time of file creation | l1events | 27664 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

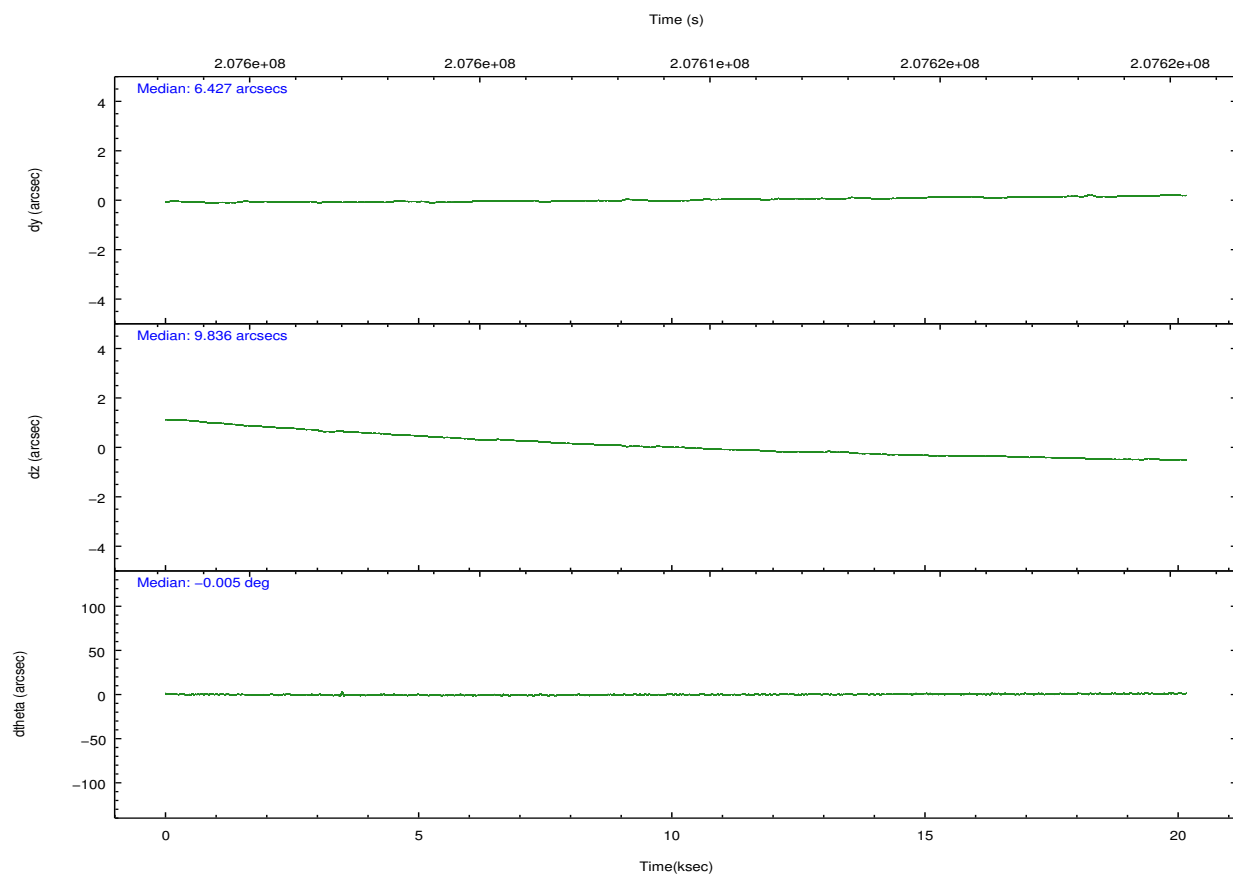
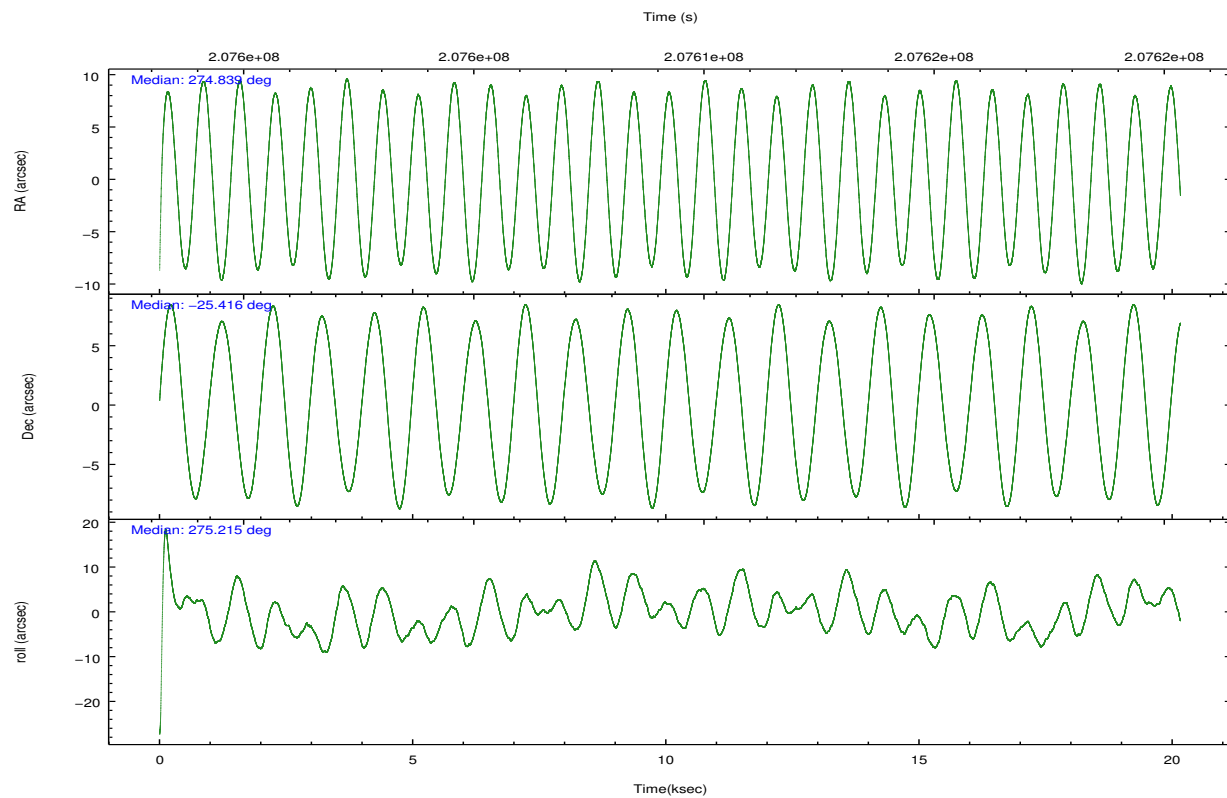
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 27664 |
| rejected events | 14815 |
| rejected % | 53% |

| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 1585 |
| | 5% |
| grade 1 events | 32 |
| | 0% |
| grade 2 events | 2663 |
| | 9% |
| grade 3 events | 1715 |
| | 6% |
| grade 4 events | 1652 |
| | 5% |
| grade 5 events | 2443 |
| | 8% |
| grade 6 events | 5800 |
| | 20% |
| grade 7 events | 11774 |
| | 42% |

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 | 274.821322 | 274.8390742845174 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -25.394271 | -25.41630144029802 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 275.057409 | 275.2216347288116 | 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 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 207599349.184000 | 207598272.25309 | | | |
| Observation start date | 2004-07-30T18:28:05 | 2004-07-30T18:11:12 | | | |
| [s] Observation end time (MET) | 207619349.184000 | 207619789.05405 | | | |
| Observation end date | 2004-07-31T00:01:25 | 2004-07-31T00:09:49 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect

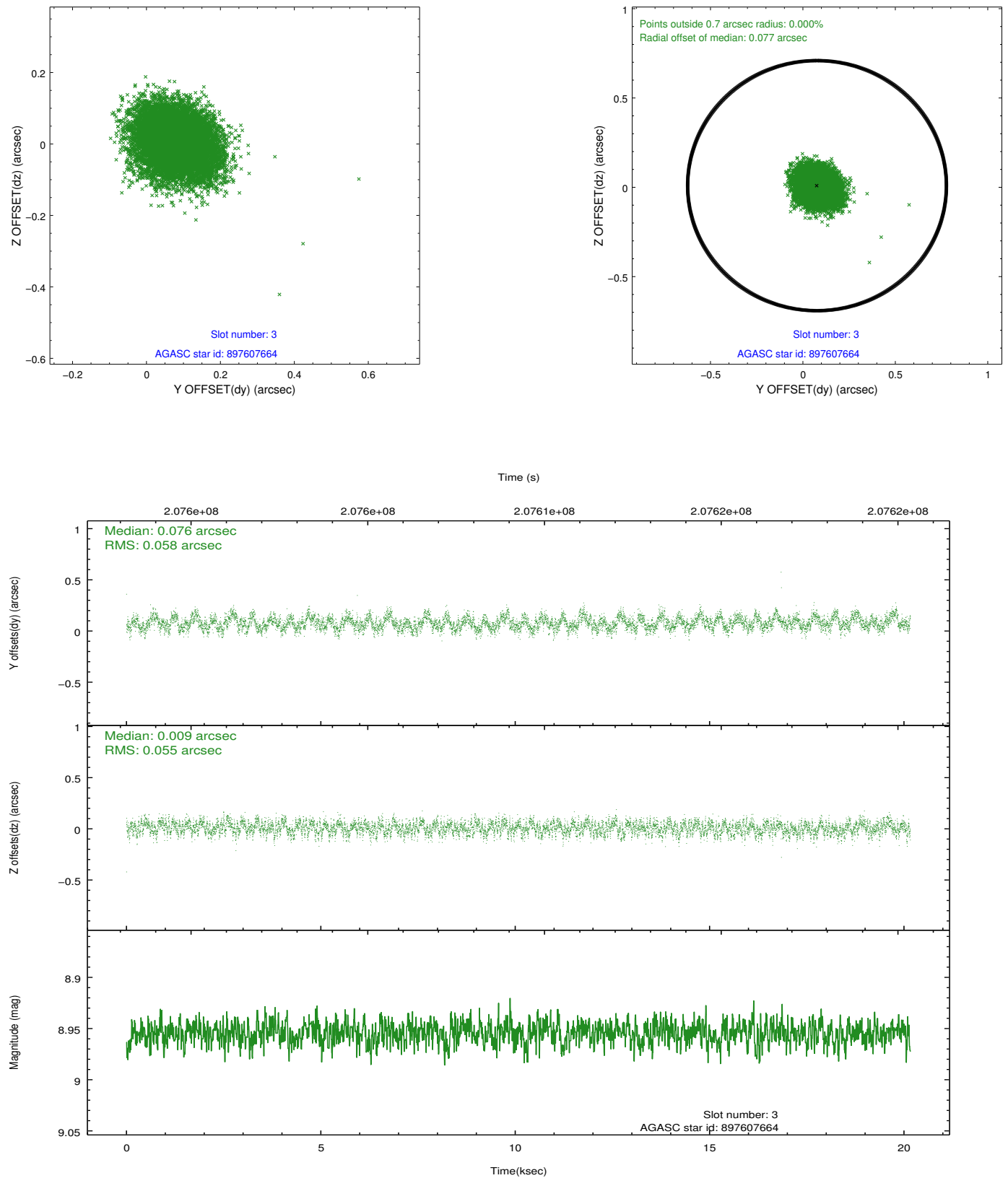


Slot Statistics

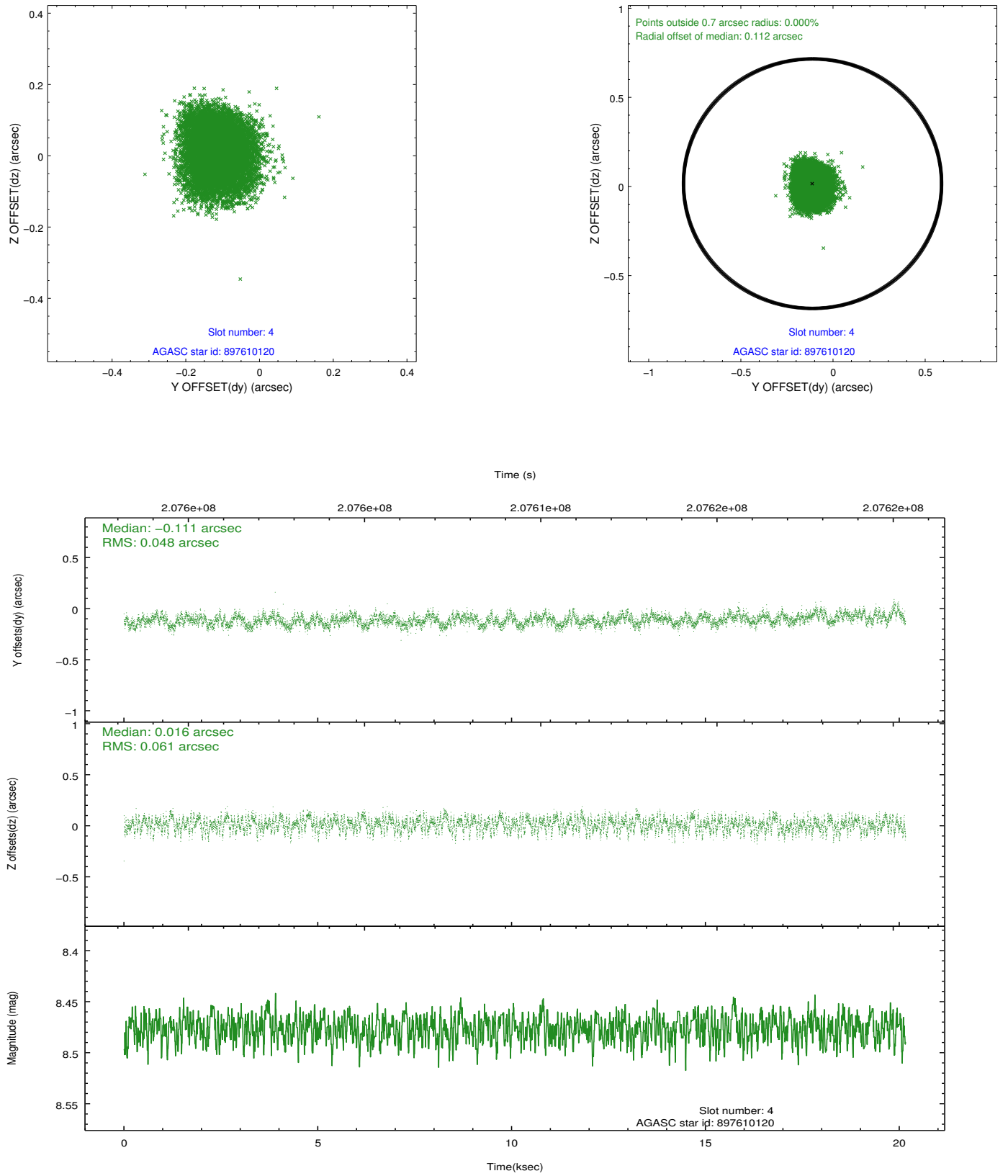
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 4917 | -0.064 | -0.038 | 0.012 | 0.019 | 0.000000 | 0.000000 | -759.22 | -1731.23 |
| 1 | FID | ACIS-S-4 | 7.20 | 4916 | 0.095 | 0.041 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2154.10 | 177.20 |
| 2 | FID | ACIS-S-5 | 7.23 | 4918 | -0.062 | 0.005 | 0.012 | 0.019 | 0.000000 | 0.000000 | -1811.86 | 170.97 |
| 3 | GUIDE | 897607664 | 8.95 | 9833 | 0.076 | 0.009 | 0.085 | 0.135 | 274.763984 | -25.327976 | -253.42 | -164.81 |
| 4 | GUIDE | 897610120 | 8.48 | 9831 | -0.111 | 0.016 | 0.084 | 0.131 | 275.375820 | -25.427247 | 280.81 | 1785.03 |
| 5 | GUIDE | 897614272 | 8.74 | 9832 | 0.040 | 0.068 | 0.079 | 0.123 | 275.179042 | -25.471578 | 381.47 | 1133.68 |
| 6 | BAD | 897607632 | 9.26 | 9202 | 0.072 | 0.008 | 0.105 | 0.191 | 275.528210 | -25.239953 | -344.29 | 2341.20 |
| 7 | GUIDE | 897601280 | 9.68 | 9828 | -0.068 | -0.106 | 0.128 | 0.200 | 274.221964 | -25.156854 | -1018.87 | -1870.46 |

2.4 Star Slots

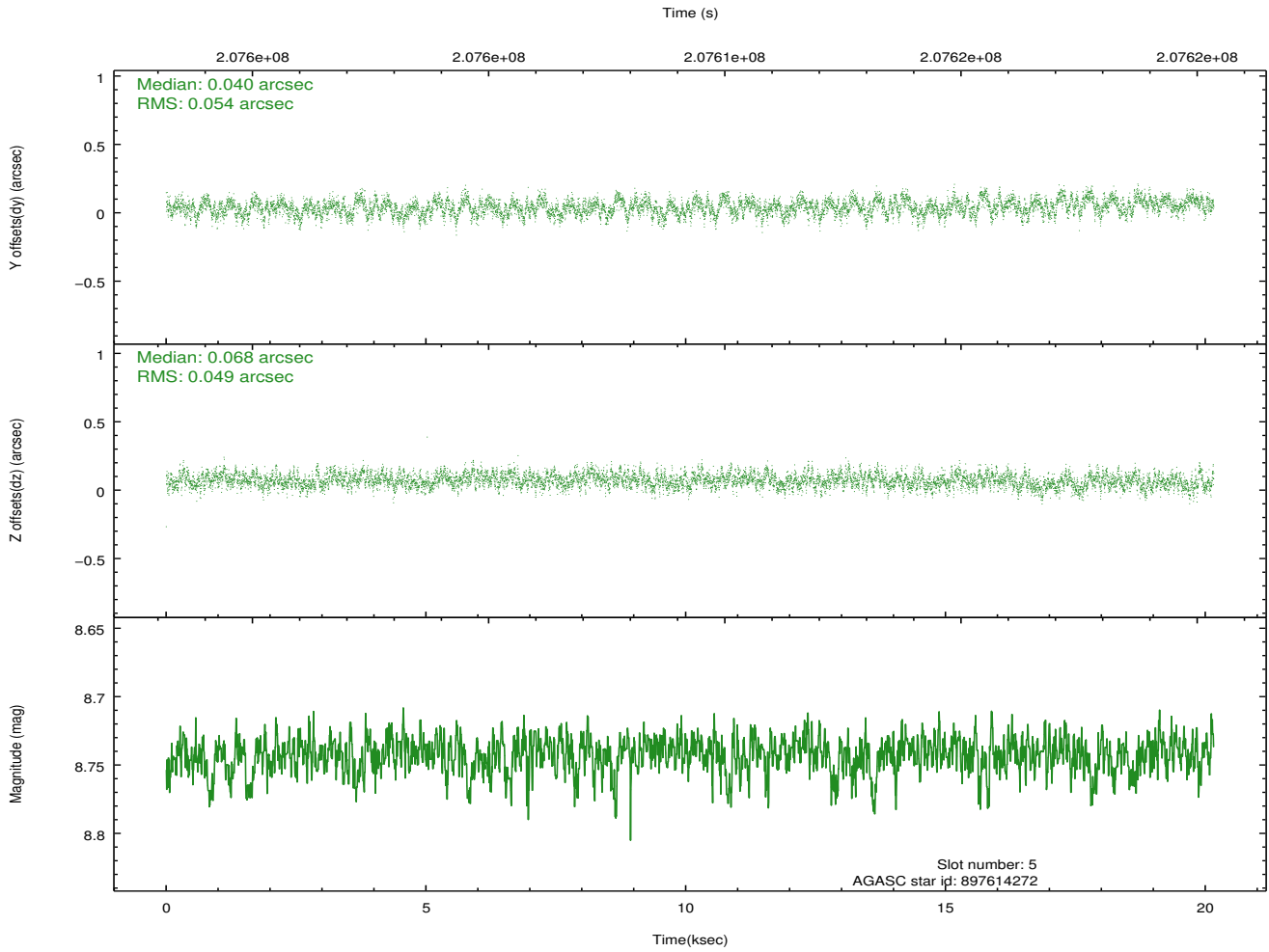
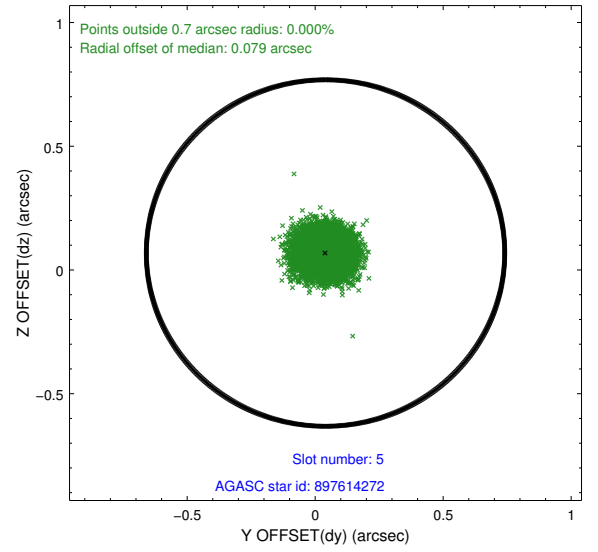
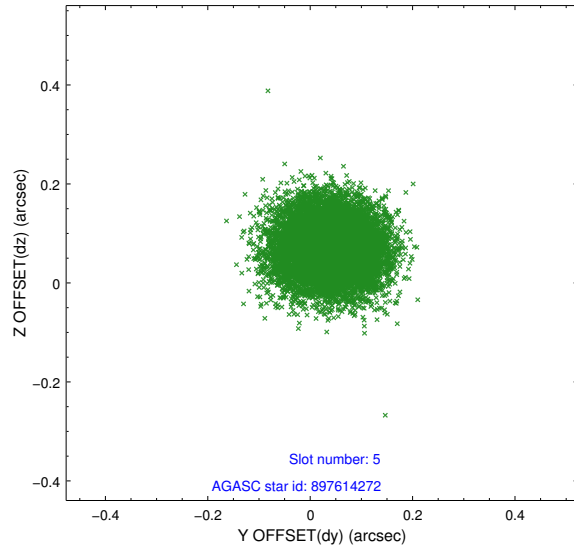
2.4.1 Slot 3



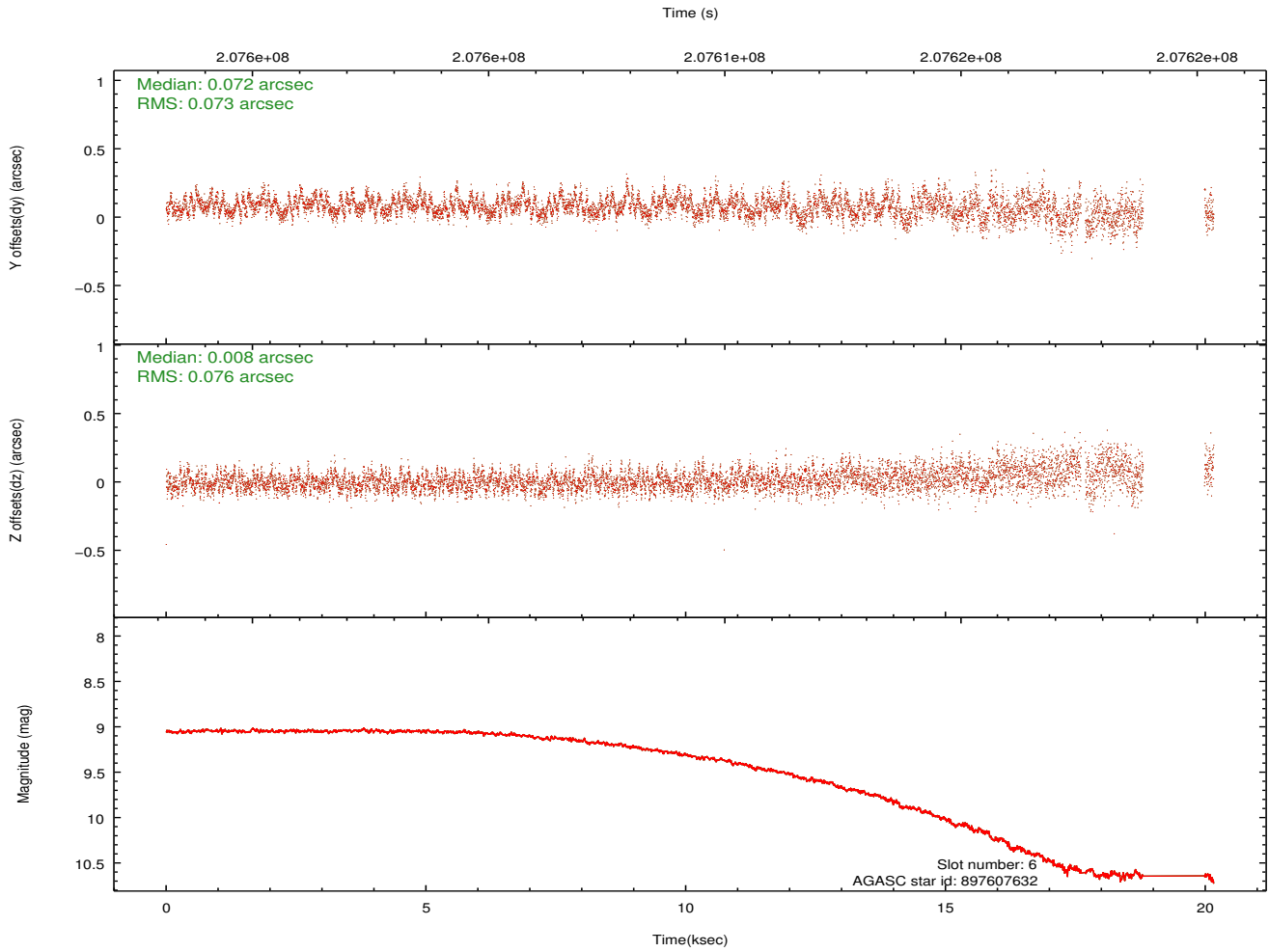
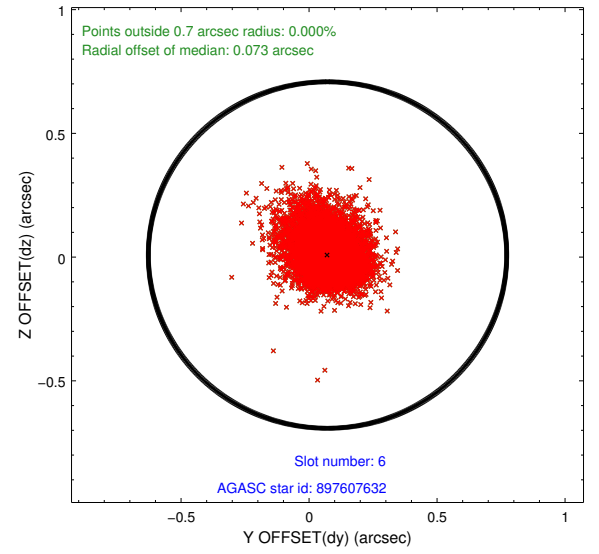
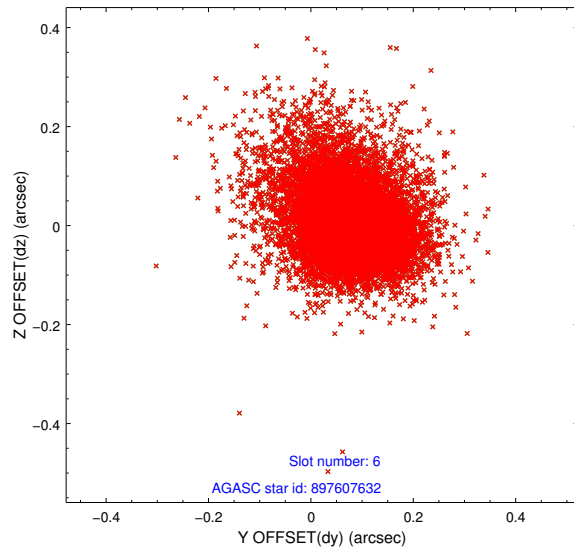
2.4.2 Slot 4



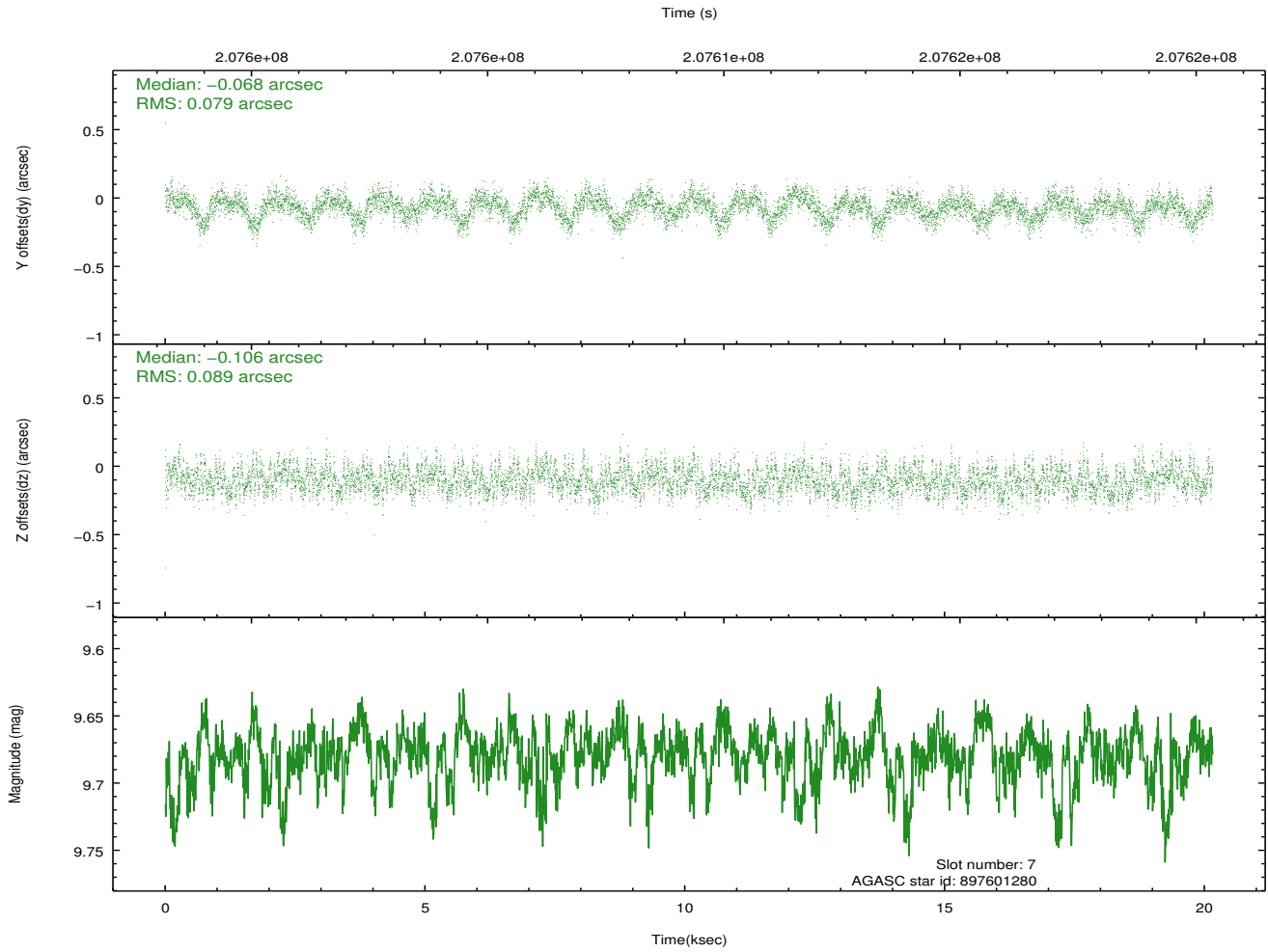
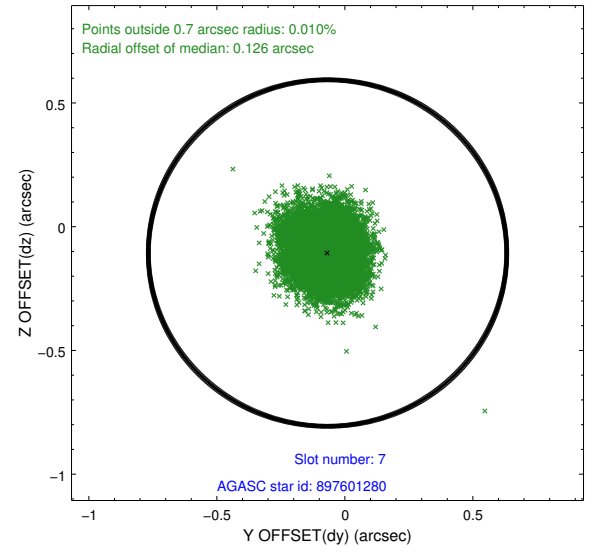
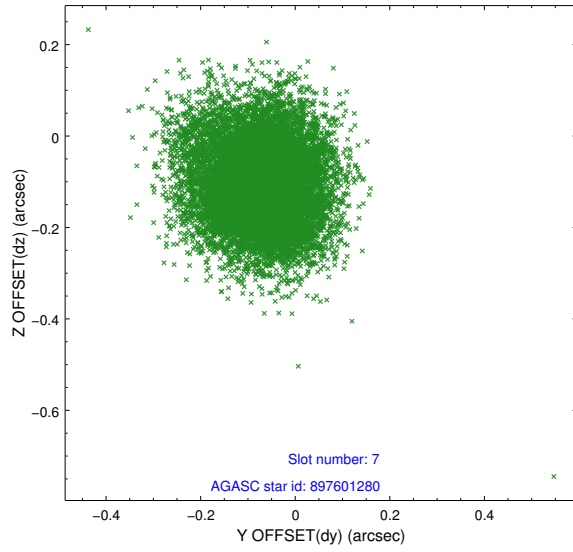
2.4.3 Slot 5



2.4.4 Slot 6

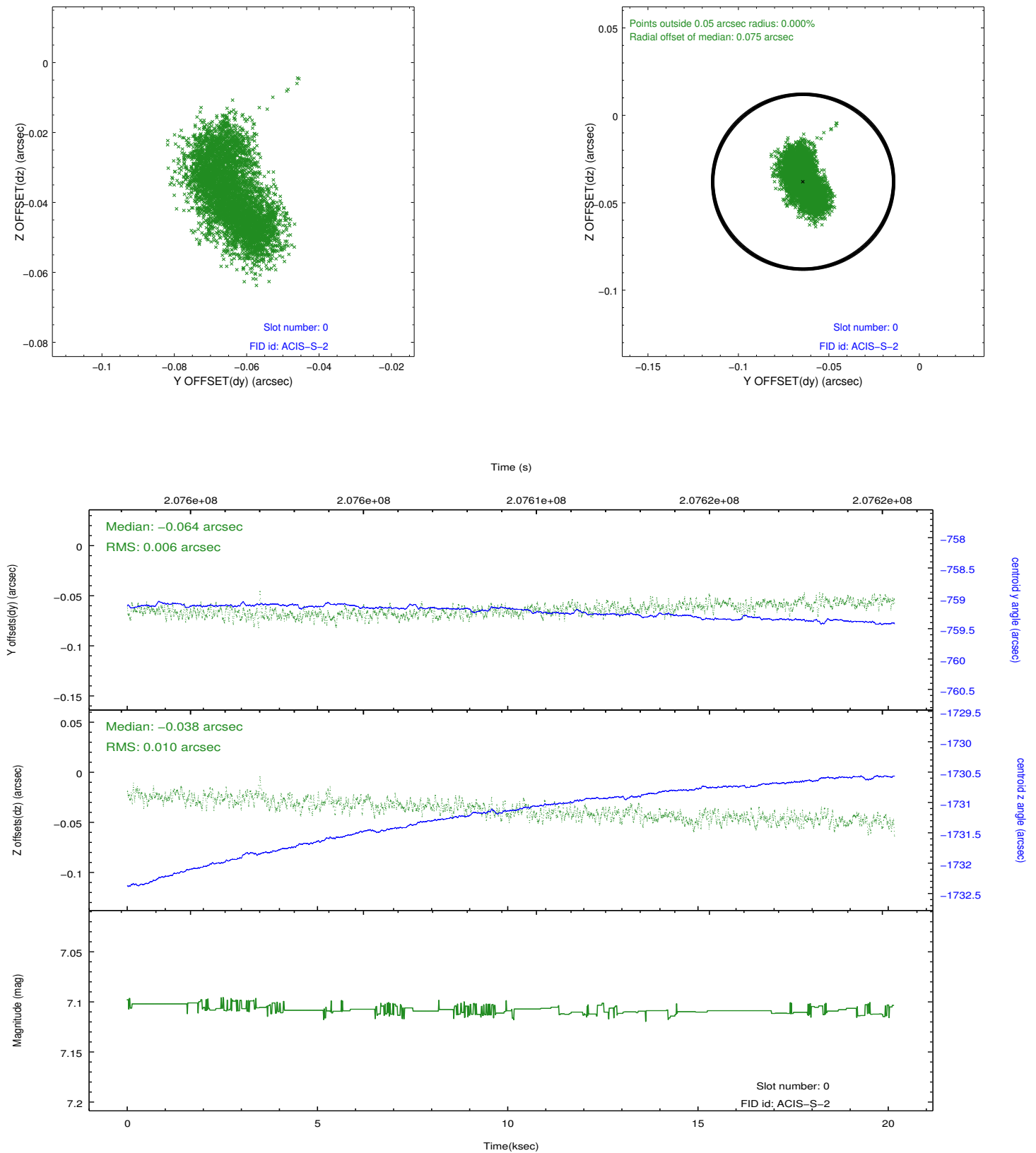


2.4.5 Slot 7

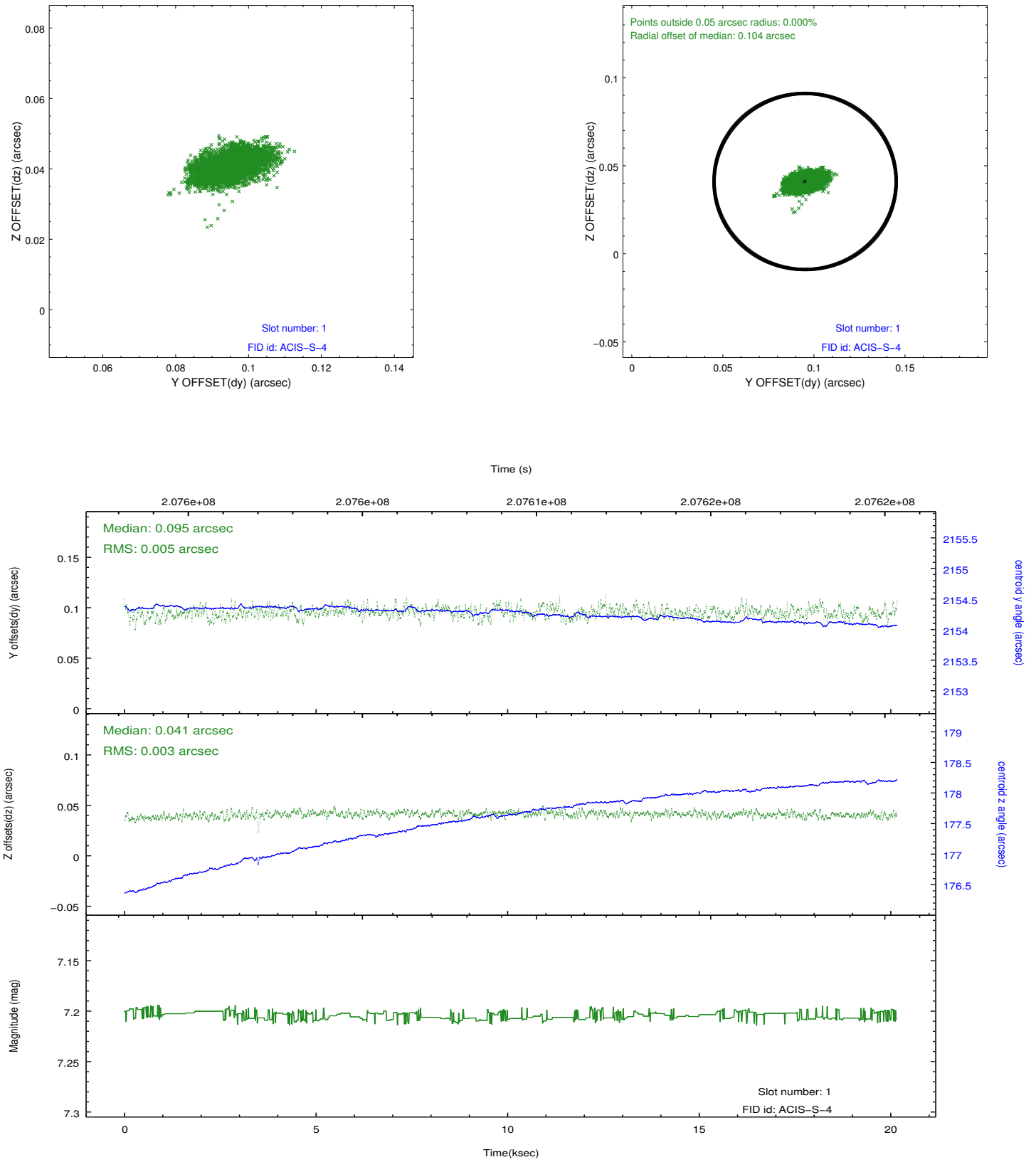


2.5 FID Slots

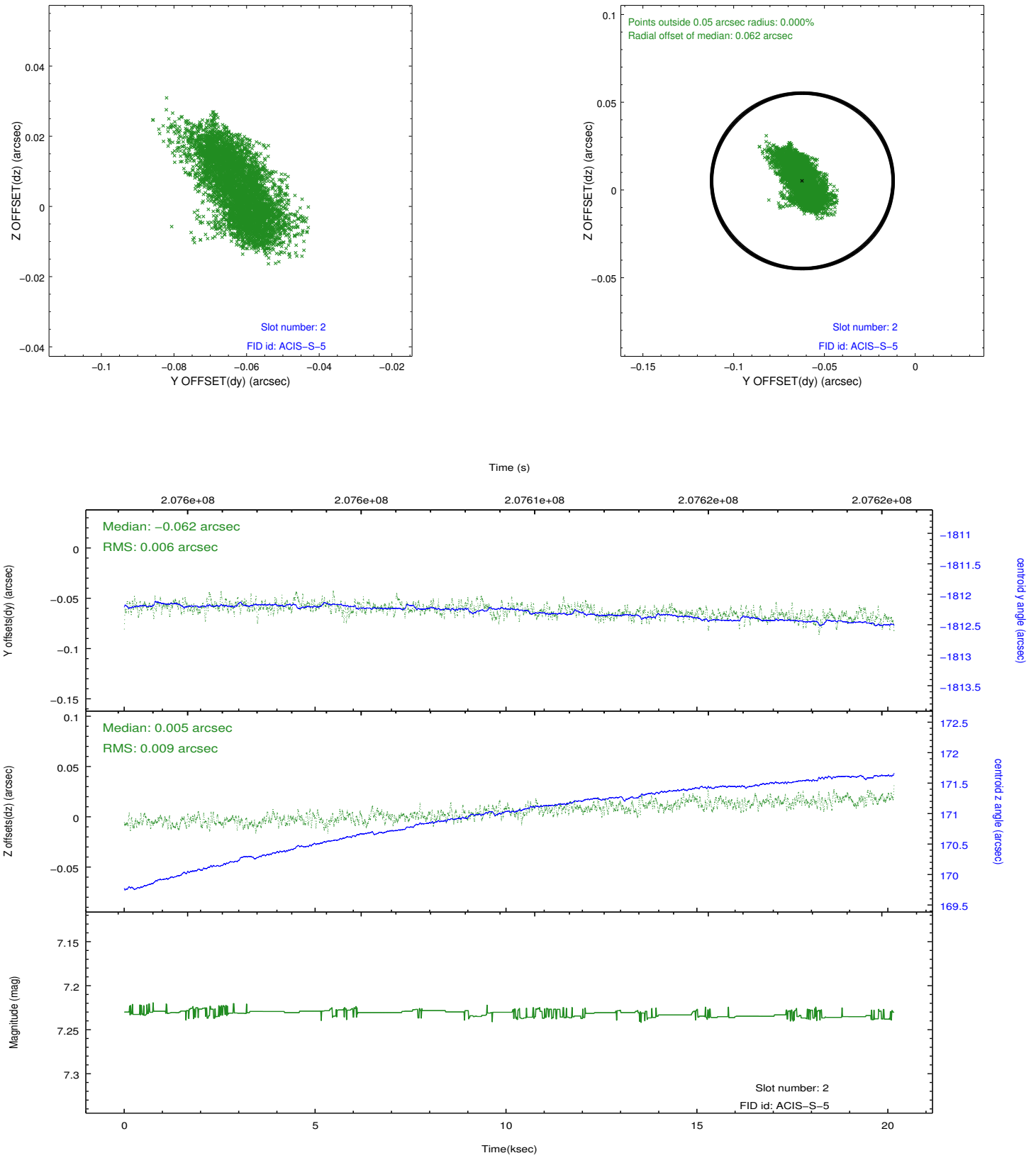
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2013.02.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 20.16 |

A.2 Comments