

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16061 - L2 Version 1
Chandra X-Ray Center

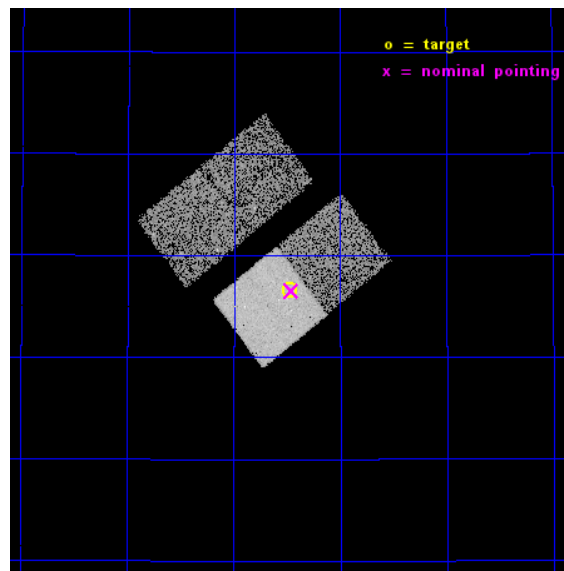
L2 Processing Date : Mar 2 2015

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1 Front

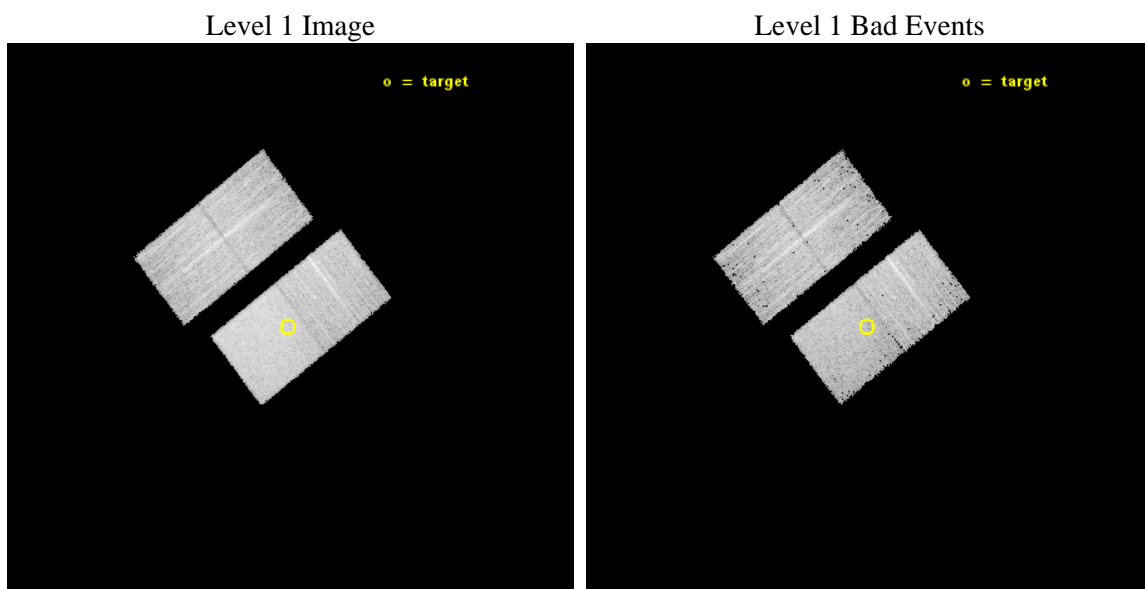
| | | |
|----------|---|---|
| seq_num | 702955 | Sequence number |
| obs_id | 16061 | Observation id |
| title | Continuing the Chandra 3CR Snapshot Survey: 23 Radio Sources with 0.5 | Proposal title |
| observer | Dr. Francesco Massaro | Principal investigator |
| object | 3C272 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 186.11875 | Observer's specified target RA [deg] |
| dec_targ | 42.110083 | Observer's specified target Dec [deg] |
| ra_nom | 186.11471393775 | Nominal RA [deg] |
| dec_nom | 42.109117023699 | Nominal Dec [deg] |
| roll_nom | 142.02380567827 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 12076.243037343 | Sum of GTIs [s] |
| livetime | 11918.458031659 | Livetime [s] |
| ontime2 | 12076.119917393 | Sum of GTIs [s] |
| ontime3 | 12076.160957336 | Sum of GTIs [s] |
| ontime6 | 12076.201997399 | Sum of GTIs [s] |
| ontime7 | 12076.243037343 | Sum of GTIs [s] |
| l2events | 50775 | Number of level 2 events |



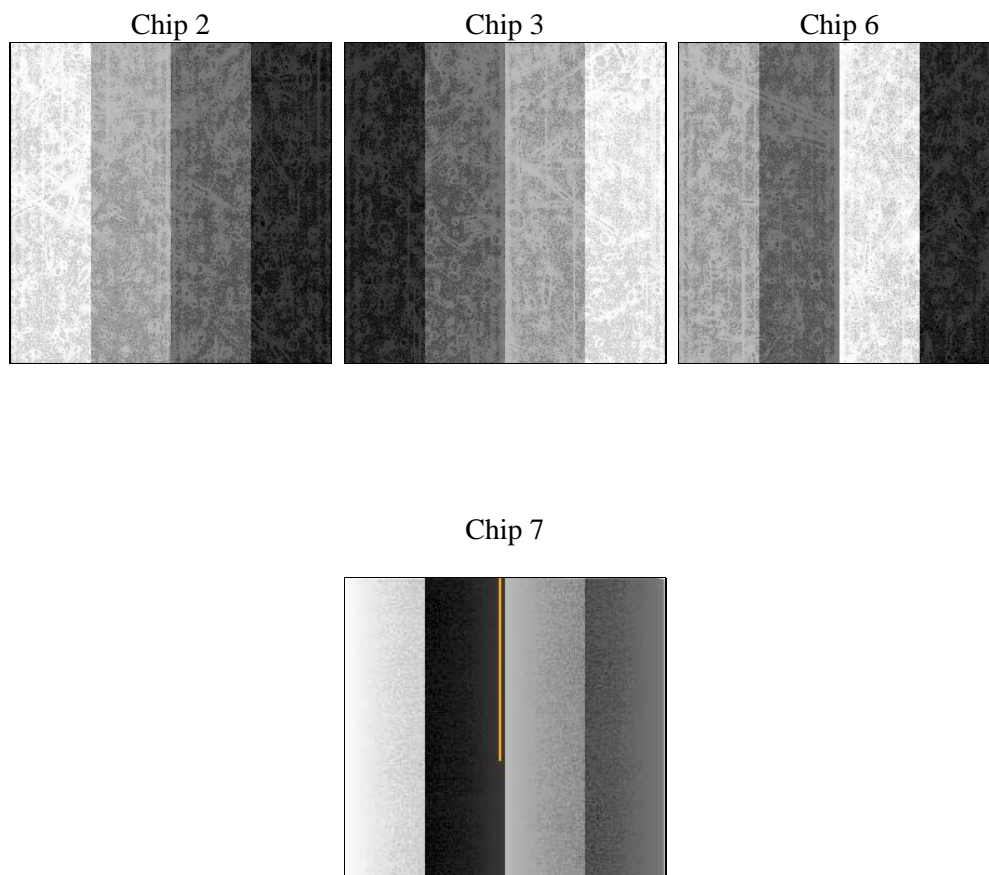
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 12000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.3.3 | Processing system revision | ontime | 12076.243037343 | Sum of GTIs [s] |
| caldsver | 4.6.7 | | ontime2 | 12076.119917393 | Sum of GTIs [s] |
| date | 2015-03-02T14:31:38 | Date and time of file creation | ontime3 | 12076.160957336 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime6 | 12076.201997399 | Sum of GTIs [s] |
| | | | ontime7 | 12076.243037343 | Sum of GTIs [s] |
| | | | l1events | 251583 | Number of level 1 events |

2.1.4 Events

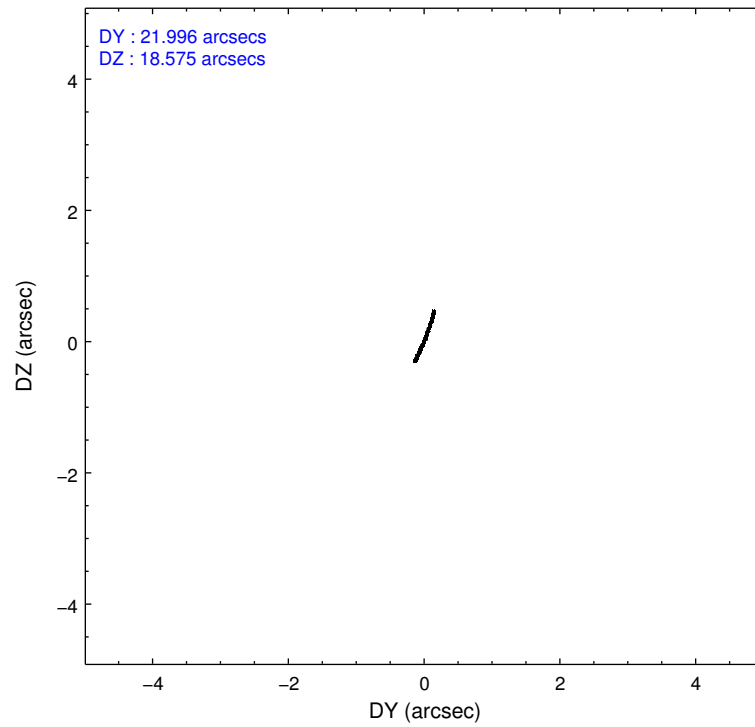
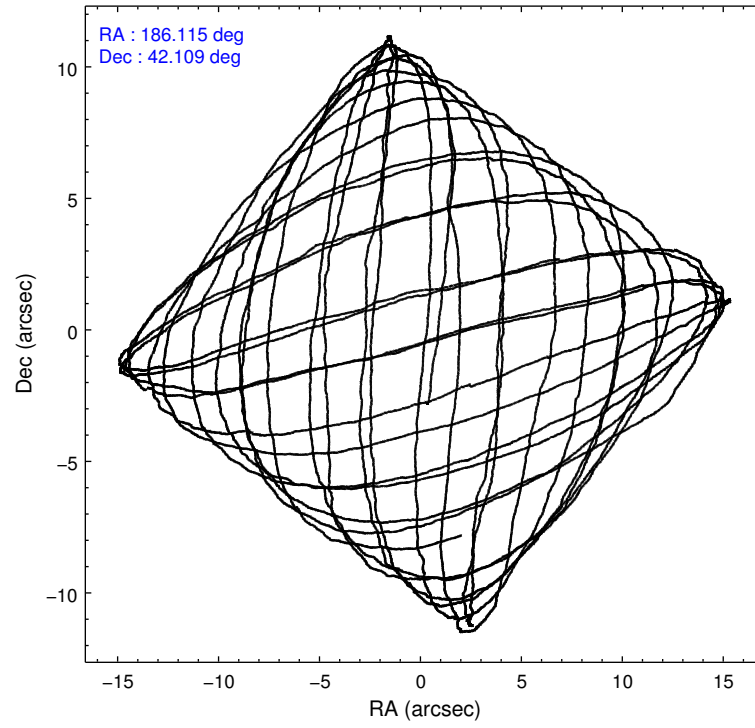
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 55037 | 57162 | 59676 | 79708 |
| rejected events | 48614 | 50756 | 52594 | 45329 |
| rejected % | 88% | 88% | 88% | 56% |

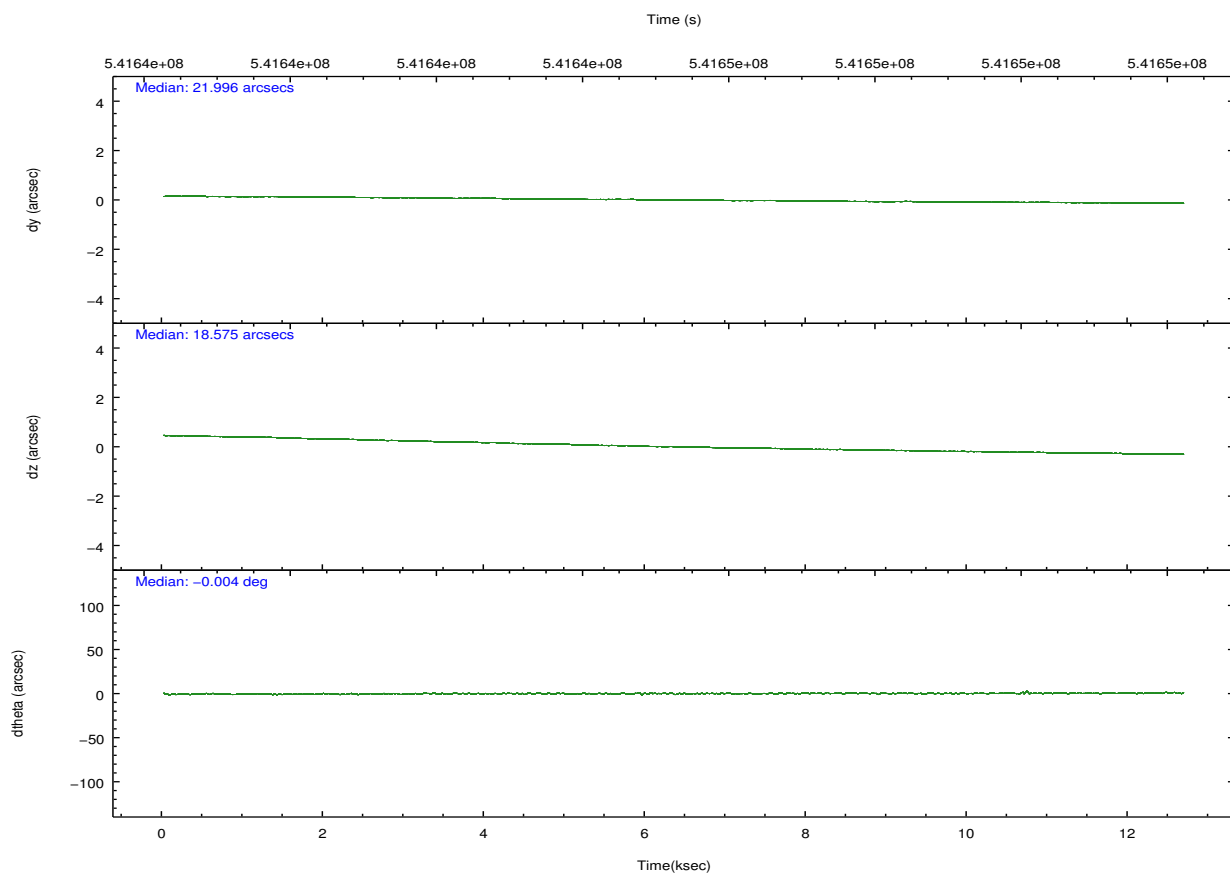
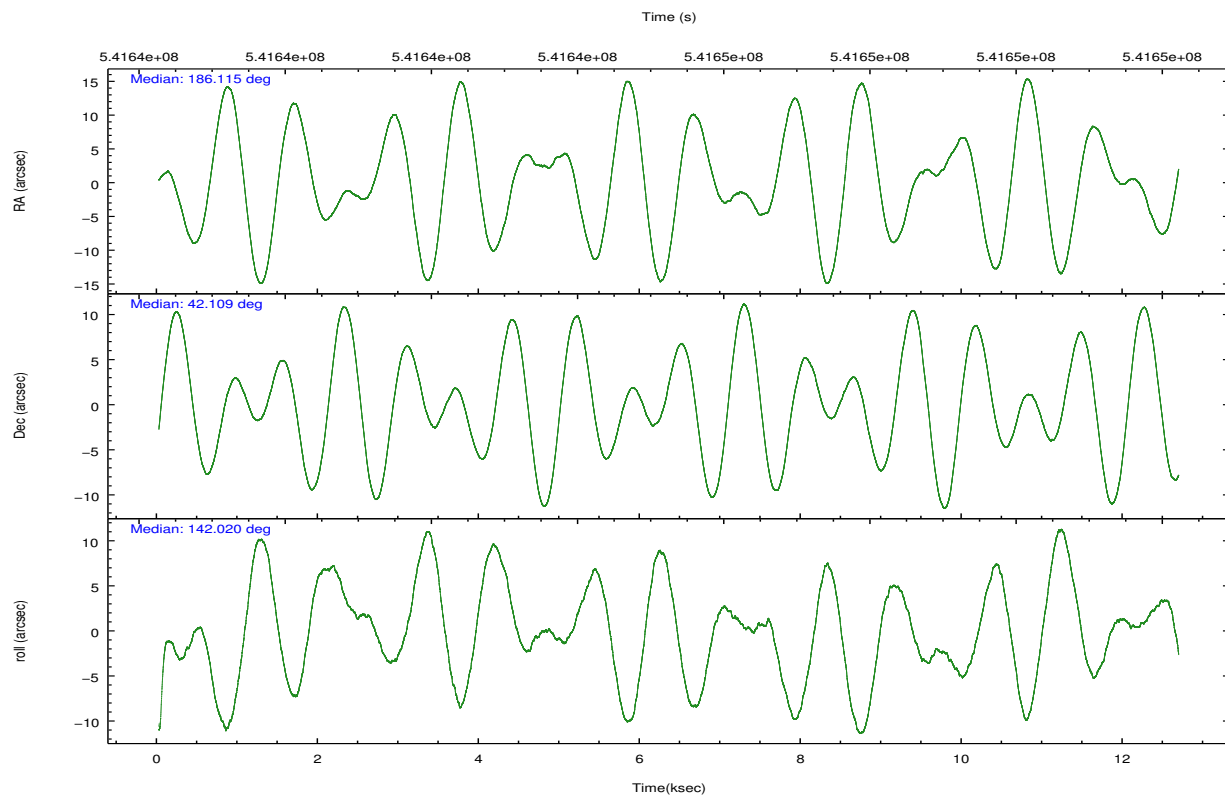
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 2303 | 2291 | 2335 | 2984 |
| | 4% | 4% | 3% | 3% |
| grade 1 events | 30 | 30 | 33 | 106 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 1550 | 1364 | 1648 | 6999 |
| | 2% | 2% | 2% | 8% |
| grade 3 events | 634 | 701 | 719 | 2939 |
| | 1% | 1% | 1% | 3% |
| grade 4 events | 661 | 692 | 755 | 2735 |
| | 1% | 1% | 1% | 3% |
| grade 5 events | 2601 | 3045 | 3090 | 8192 |
| | 4% | 5% | 5% | 10% |
| grade 6 events | 1276 | 1363 | 1627 | 18735 |
| | 2% | 2% | 2% | 23% |
| grade 7 events | 45982 | 47676 | 49469 | 37018 |
| | 83% | 83% | 82% | 46% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-2367 | ACIS-2367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 186.151465 | 186.1147139377466 | CCD I2 on | O1 | Y |
| [deg] Pointing Dec | 42.105650 | 42.10911702369881 | CCD I3 on | O2 | Y |
| [deg] Pointing Roll | 141.842527 | 142.0238056782743 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | Y | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | CCD S4 on | N | N |
| [s] Observation start time (MET) | 541639616.184000 | 541638490.79136 | CCD S5 on | N | N |
| Observation start date | 2015-03-01T23:25:49 | 2015-03-01T23:08:10 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 541651616.184000 | 541652673.20465 | On-chip summing requested | N | N |
| Observation end date | 2015-03-02T02:45:49 | 2015-03-02T03:04:33 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.1 |

2.3 Aspect



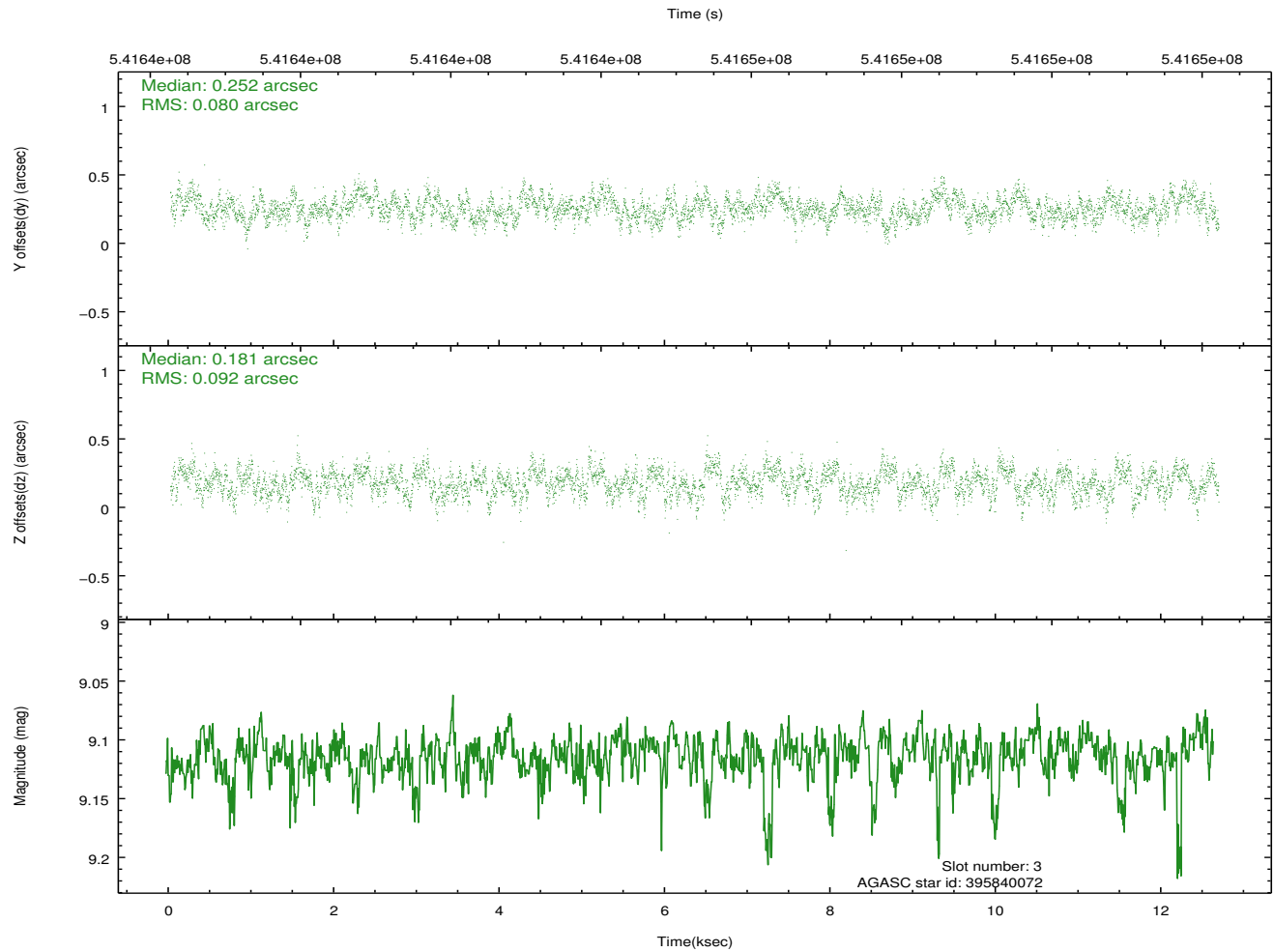
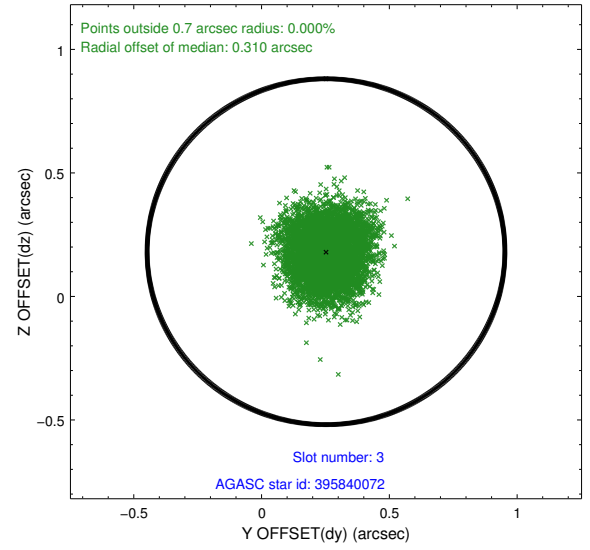
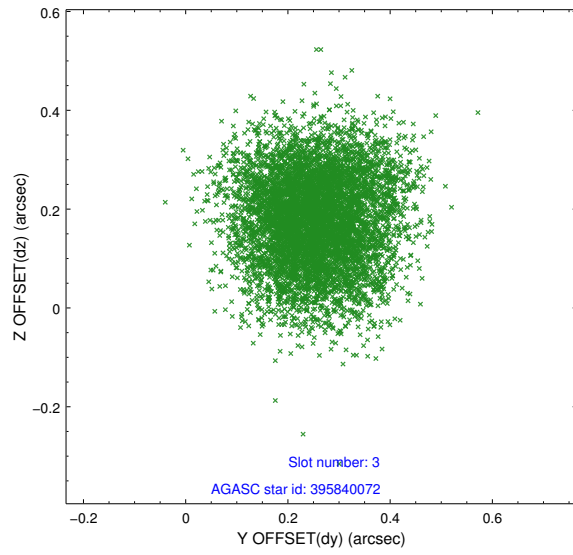


Slot Statistics

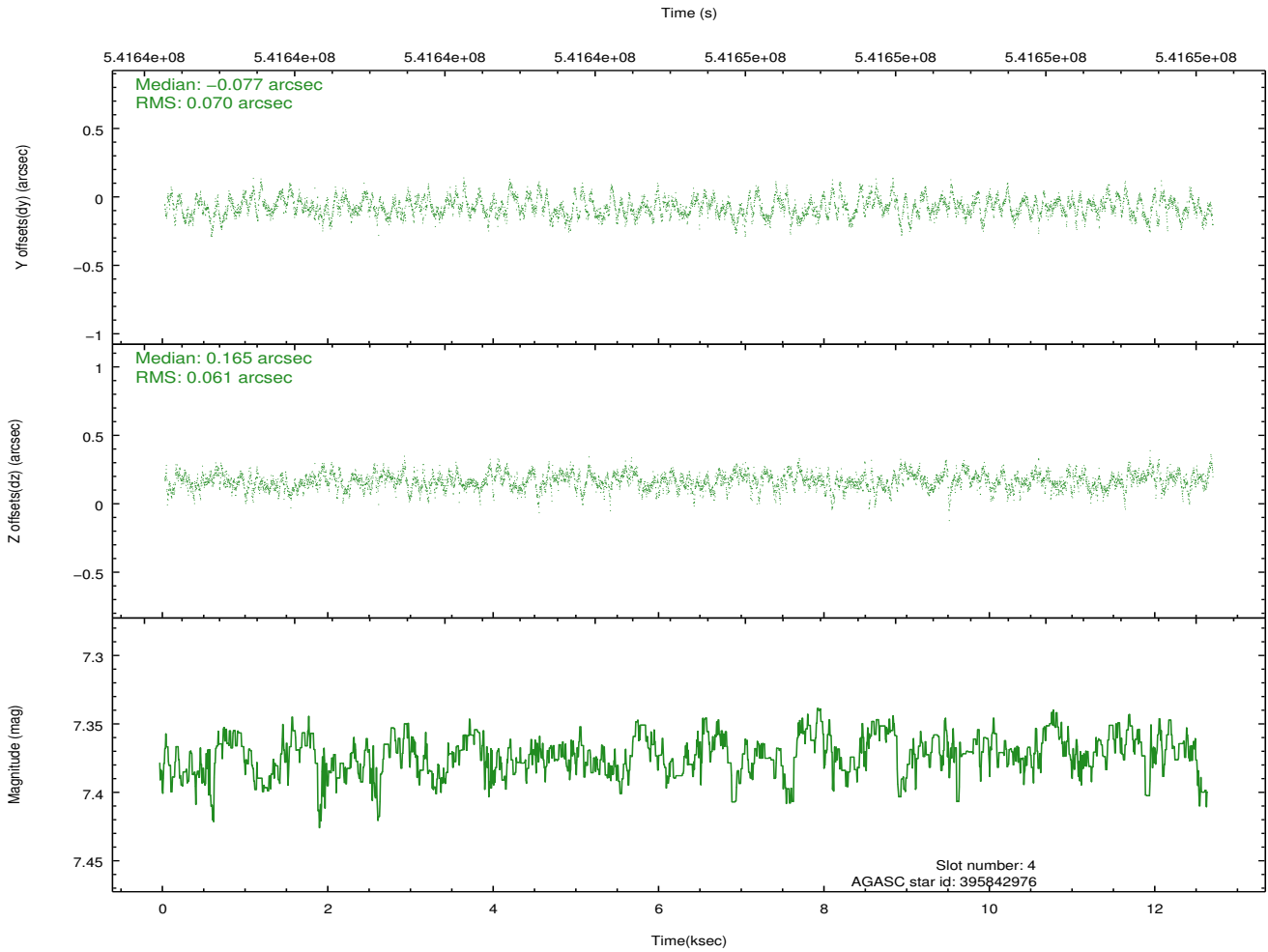
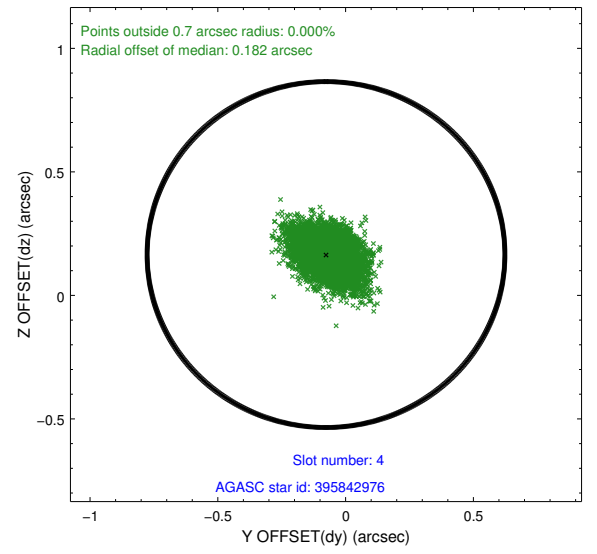
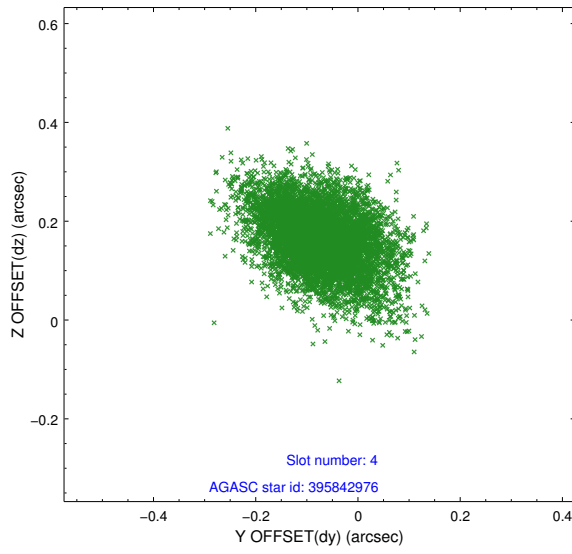
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | | ACIS-S-2 | 7.01 | 3091 | -0.133 | -0.084 | 0.008 | 0.013 | 0.000000 | 0.000000 | -775.30 | -1740.11 |
| 1 | FID | | ACIS-S-4 | 7.10 | 3091 | 0.335 | 0.087 | 0.007 | 0.013 | 0.000000 | 0.000000 | 2138.27 | 168.13 |
| 2 | FID | | ACIS-S-5 | 7.11 | 3091 | -0.234 | 0.007 | 0.008 | 0.012 | 0.000000 | 0.000000 | -1827.74 | 162.17 |
| 3 | GUIDE | used | 395840072 | 9.11 | 6173 | 0.252 | 0.181 | 0.131 | 0.208 | 186.488629 | 42.366962 | -121.69 | -1294.41 |
| 4 | GUIDE | used | 395842976 | 7.37 | 6183 | -0.077 | 0.165 | 0.097 | 0.163 | 186.237218 | 42.854723 | 1489.74 | -2259.71 |
| 5 | GUIDE | used | 395847536 | 6.88 | 6182 | 0.023 | -0.070 | 0.097 | 0.161 | 186.158914 | 41.332365 | -1735.83 | 2176.29 |
| 6 | GUIDE | used | 395851024 | 6.32 | 6182 | -0.118 | 0.083 | 0.076 | 0.124 | 185.945878 | 42.542747 | 1402.11 | -899.81 |
| 7 | GUIDE | used | 395852120 | 9.22 | 6181 | -0.087 | -0.354 | 0.189 | 0.277 | 185.108546 | 41.941356 | 1840.71 | 2176.91 |

2.4 Star Slots

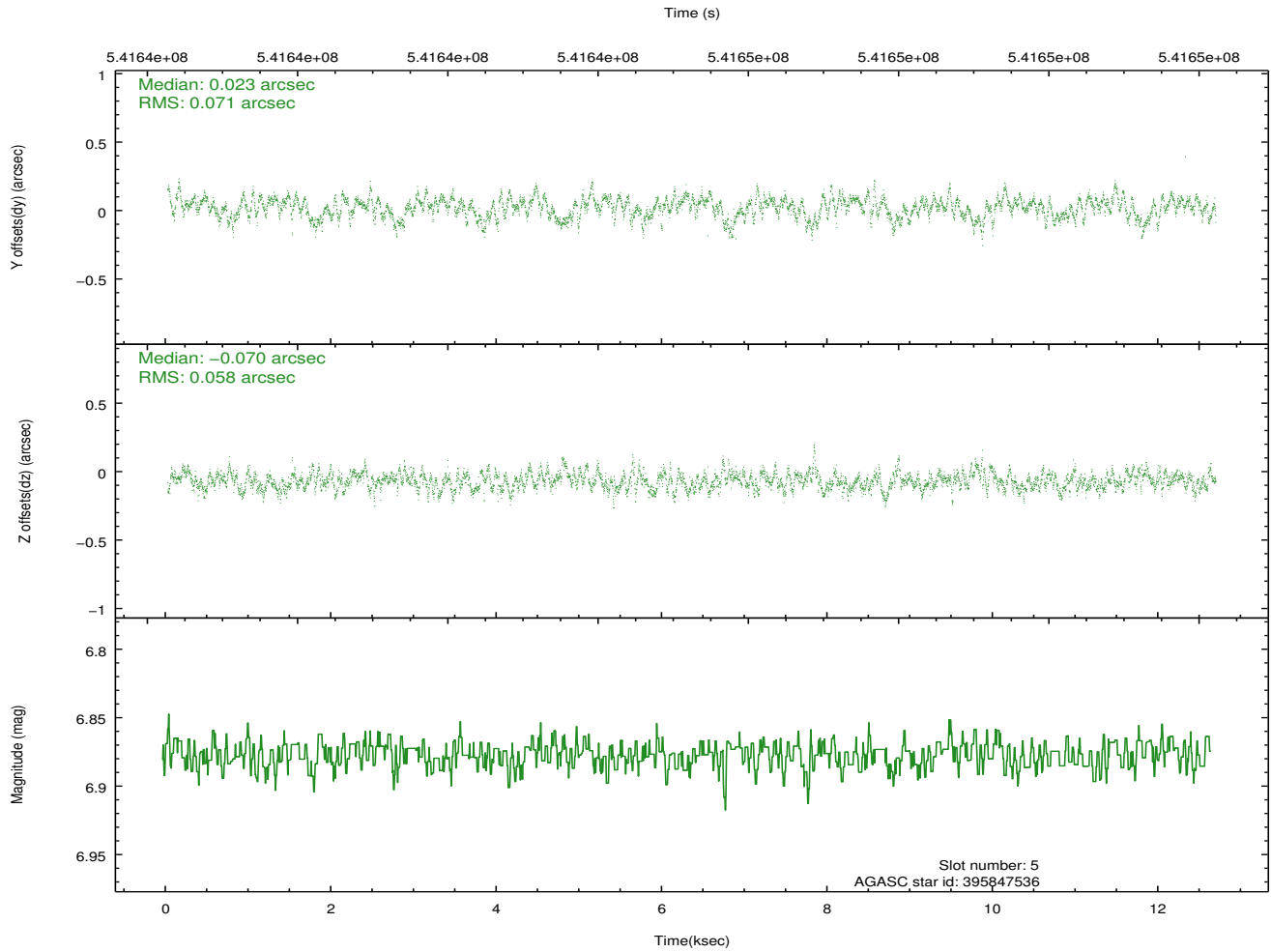
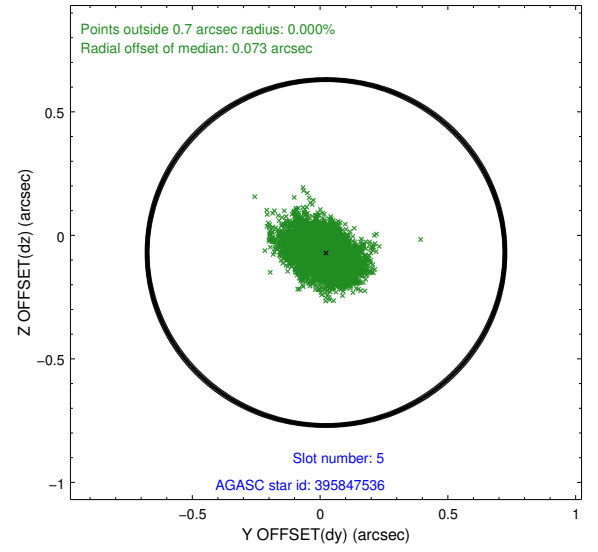
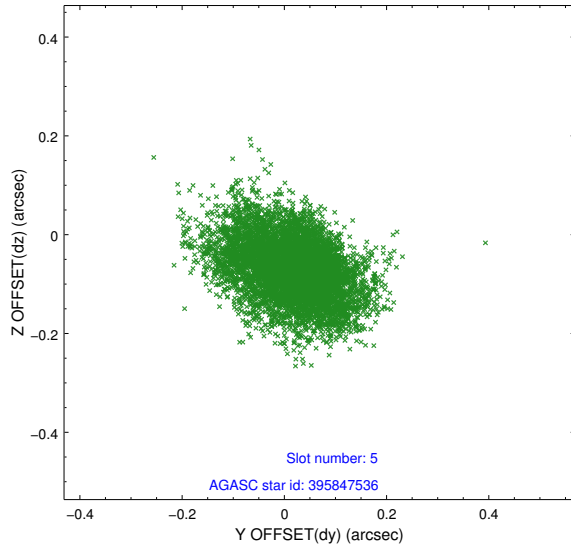
2.4.1 Slot 3



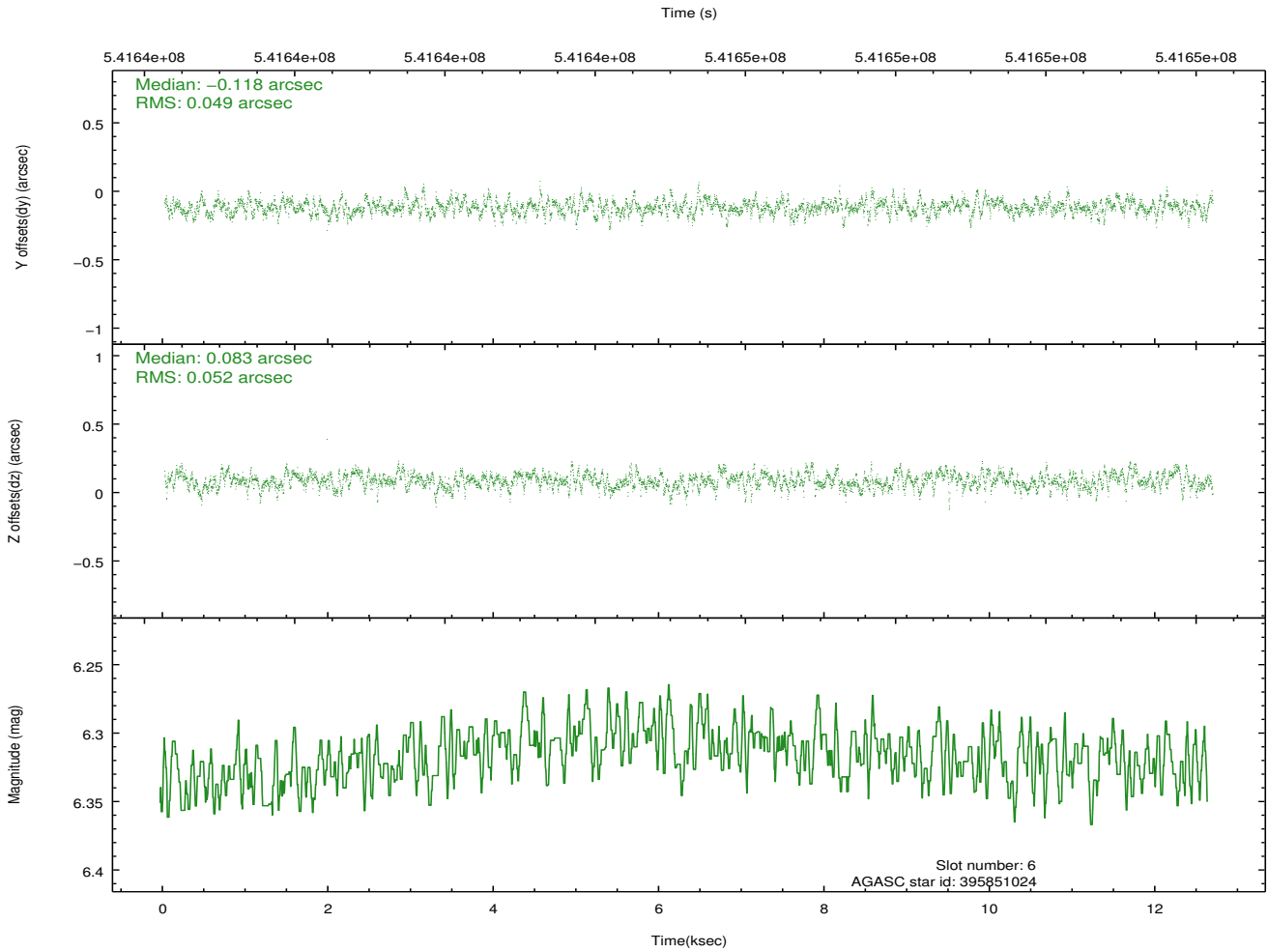
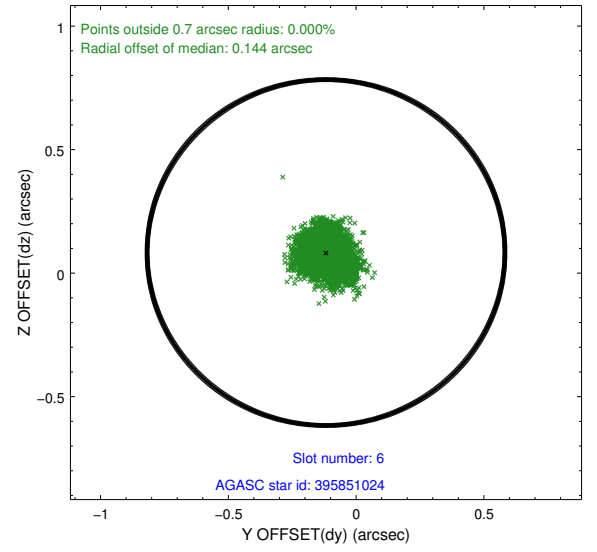
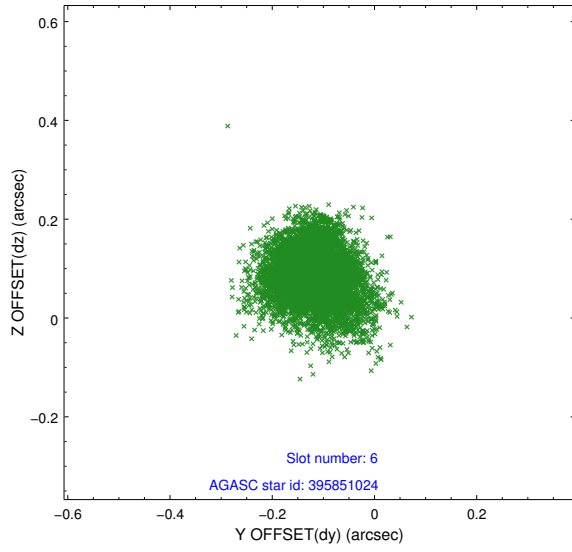
2.4.2 Slot 4



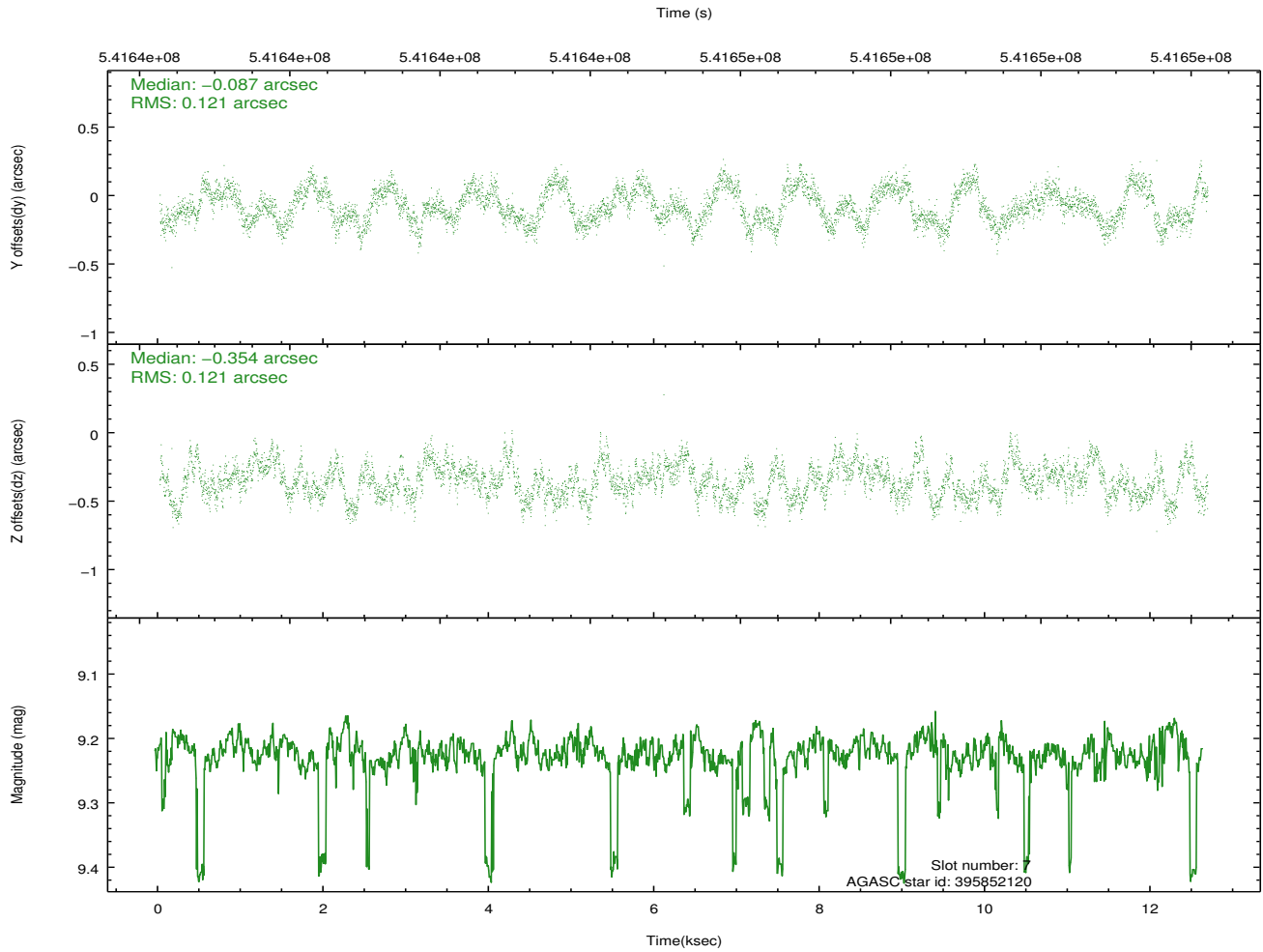
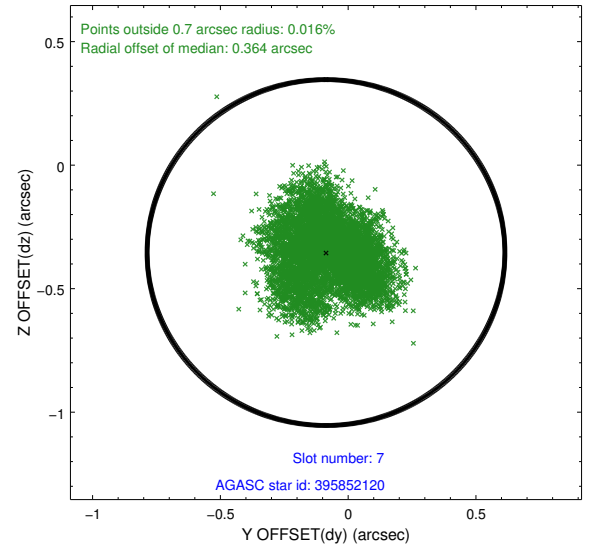
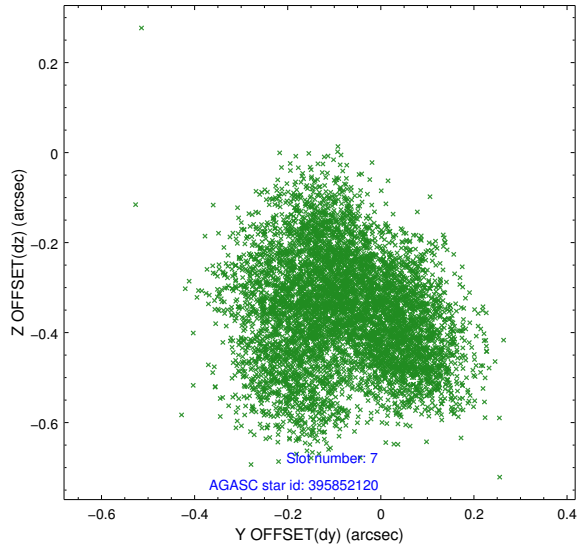
2.4.3 Slot 5



2.4.4 Slot 6

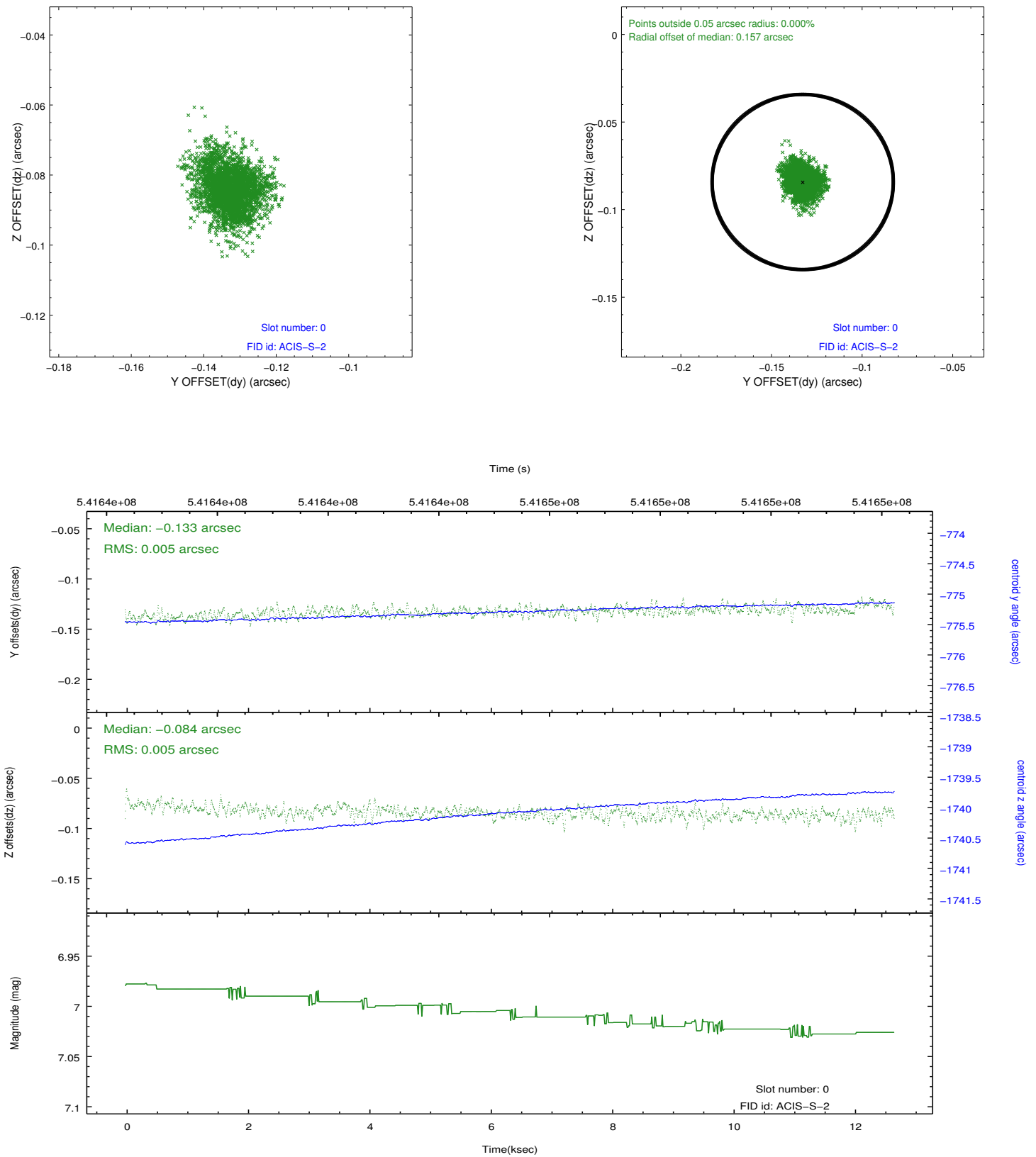


2.4.5 Slot 7

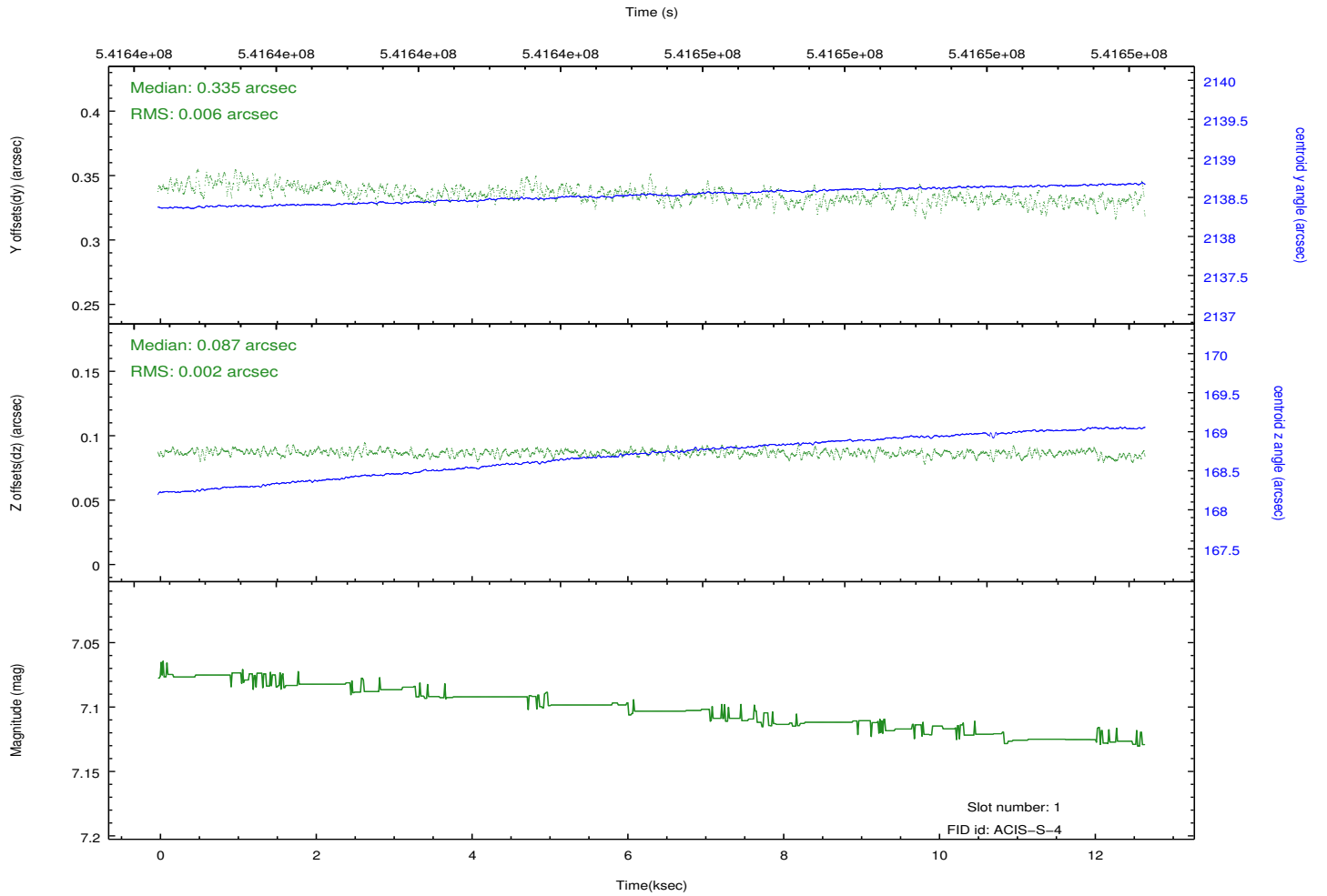
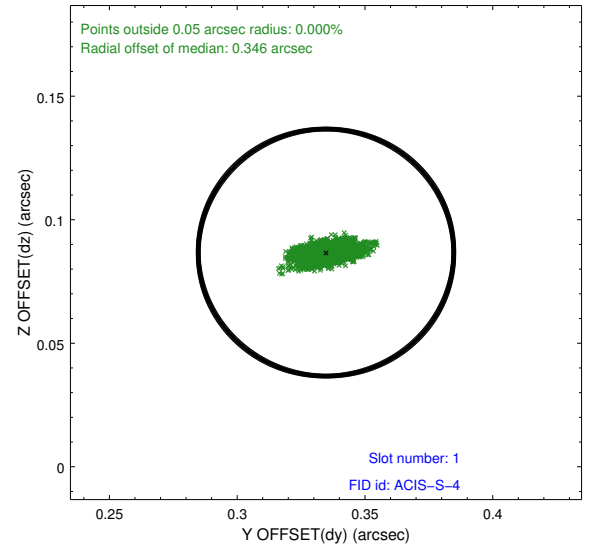
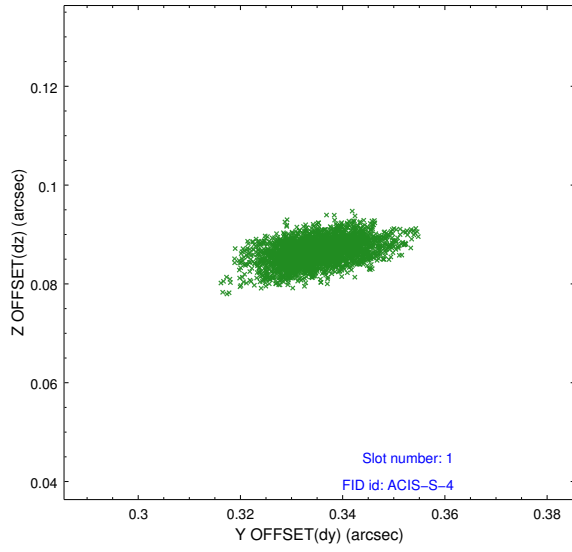


2.5 FID Slots

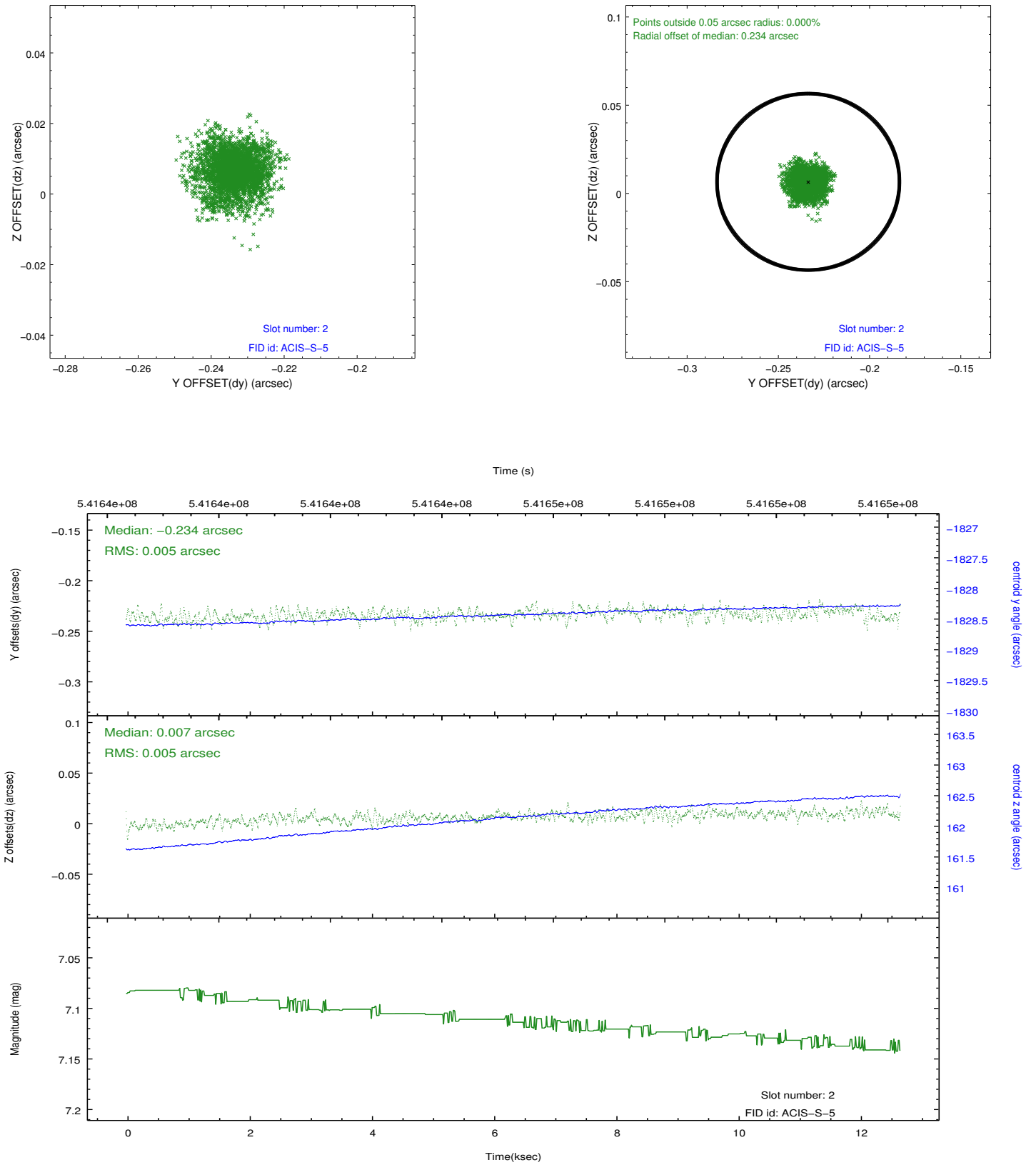
2.5.1 Slot 0



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) | 2015.03.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 12.076243037343 |

A.2 Comments