

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8940 - L2 Version 2
Chandra X-Ray Center

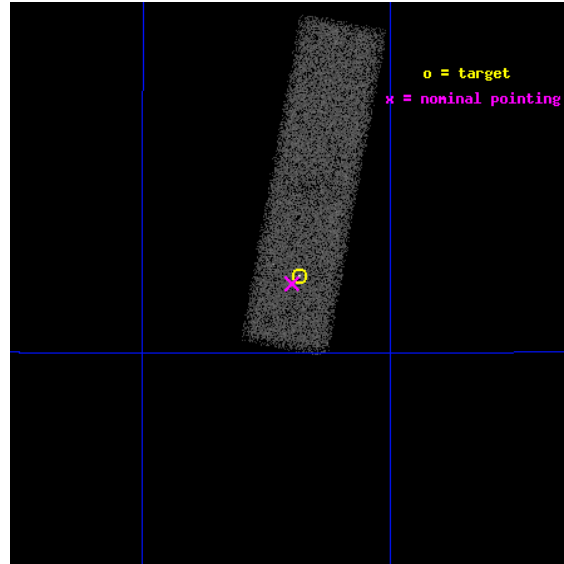
L2 Processing Date : May 12 2012

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1 Front

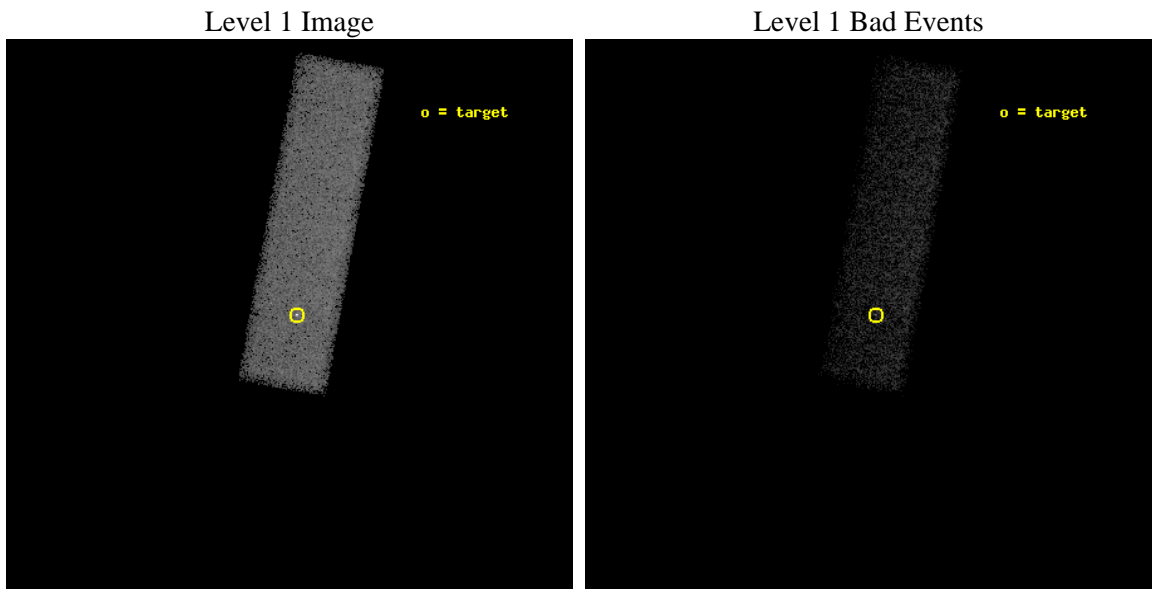
| | | |
|----------|---|---|
| seq_num | 200521 | Sequence number |
| obs_id | 8940 | Observation id |
| title | X-RAY AND UV PHOTOIONIZATION AND PHOTOEXCITATION OF PRE-MAIN-SEQUENCE STAR TRANSITIONAL DISKS | Proposal title |
| observer | Dr. Alexander Brown | Principal investigator |
| object | GM AUR | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 73.795833 | Observer's specified target RA [deg] |
| dec_targ | 30.3665 | Observer's specified target Dec [deg] |
| ra_nom | 73.799592339159 | Nominal RA [deg] |
| dec_nom | 30.36289863123 | Nominal Dec [deg] |
| roll_nom | 280.40874709336 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 20187.200300872 | Sum of GTIs [s] |
| livetime | 19202.13098152 | Livetime [s] |
| ontime7 | 20187.200300872 | Sum of GTIs [s] |
| l2events | 31235 | Number of level 2 events |



2 OBI

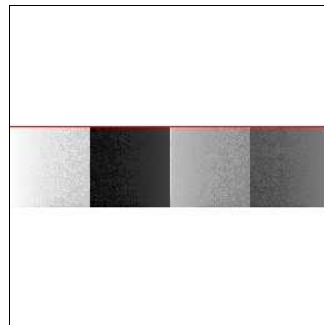
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 20000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 20187.200300872 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime7 | 20187.200300872 | Sum of GTIs [s] |
| date | 2012-05-12T13:16:55 | Date and time of file creation | l1events | 71386 | Number of level 1 events |
| revision | 2 | Processing version of data | | | |

2.1.4 Events

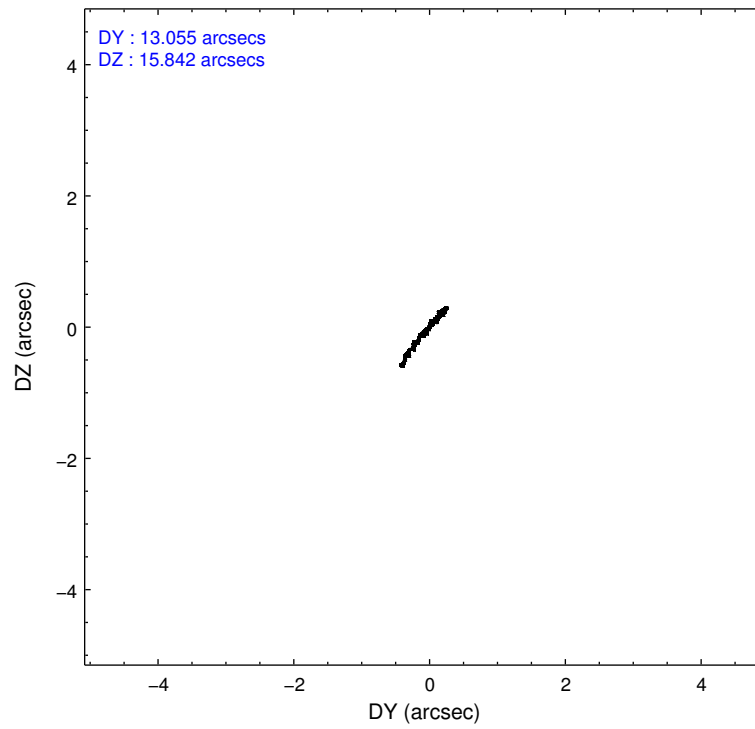
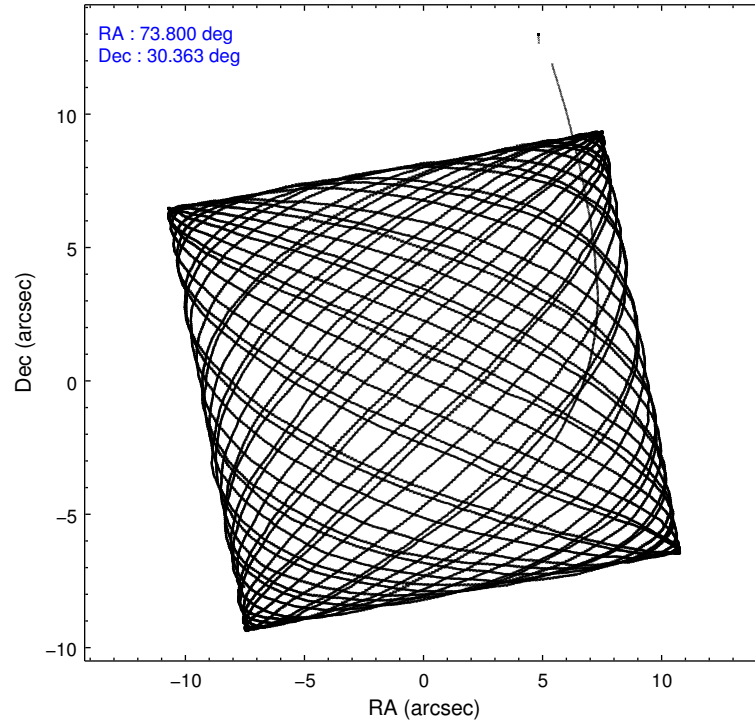
| | ccd 7 |
|-----------------|--------------|
| level 1 events | 71386 |
| rejected events | 39314 |
| rejected % | 55% |

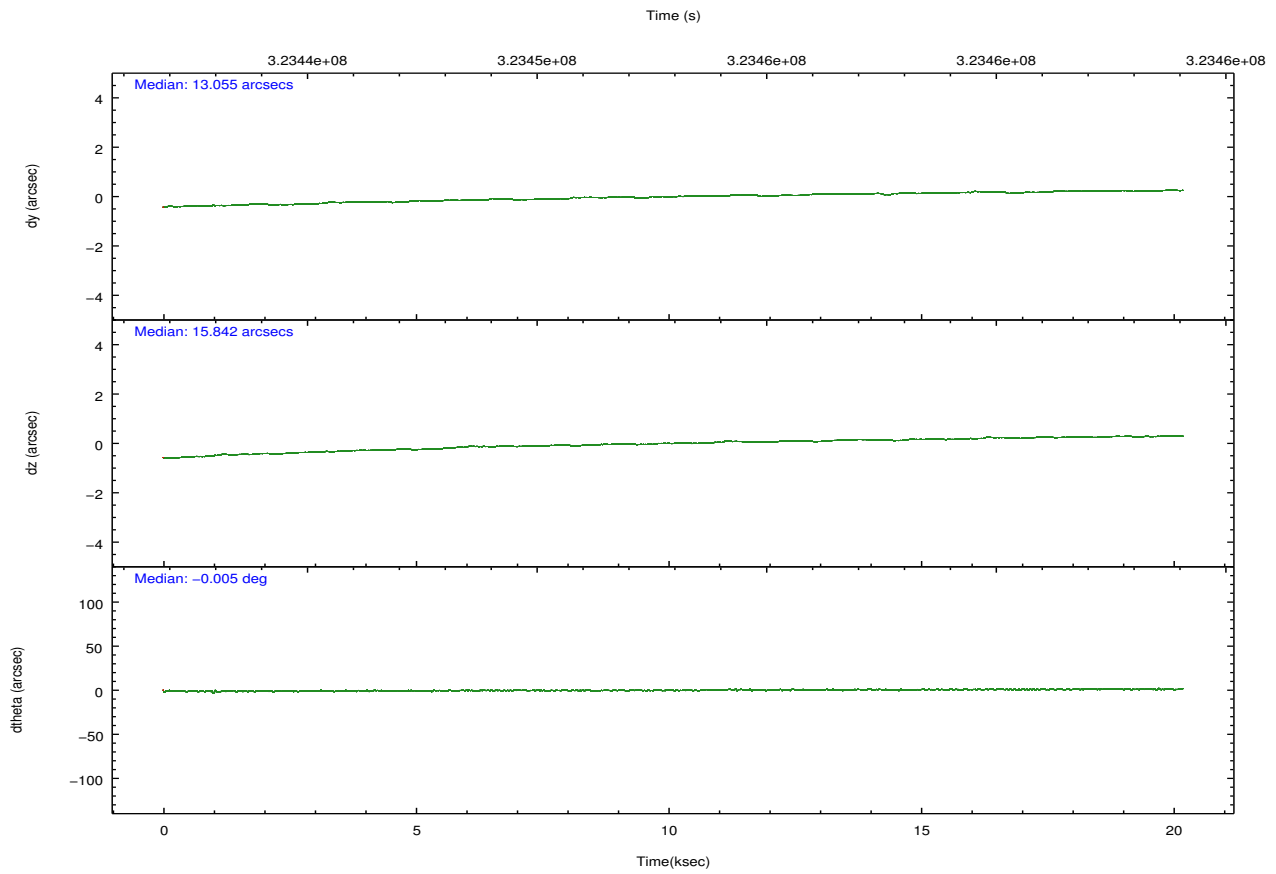
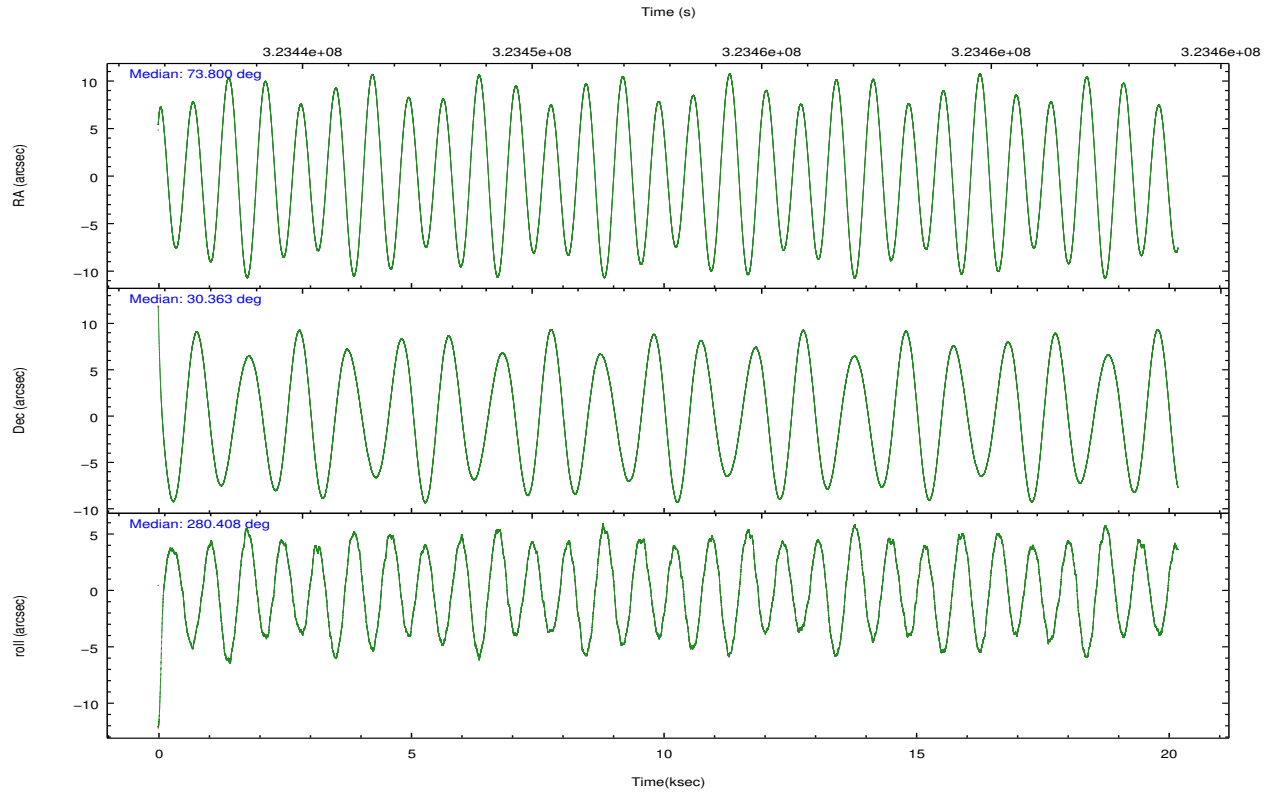
| | ccd 7 |
|----------------|--------------|
| grade 0 events | 3379 |
| | 4% |
| grade 1 events | 71 |
| | 0% |
| grade 2 events | 6775 |
| | 9% |
| grade 3 events | 3589 |
| | 5% |
| grade 4 events | 3554 |
| | 4% |
| grade 5 events | 6597 |
| | 9% |
| grade 6 events | 15790 |
| | 22% |
| grade 7 events | 31631 |
| | 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 | 73.778727 | 73.79959233915865 | Subarray requested | CUSTOM | 1/4 |
| [deg] Pointing Dec | 30.383483 | 30.36289863122959 | Subarray start row | 384 | 384 |
| [deg] Pointing Roll | 280.262677 | 280.4087470933647 | Subarray row count | 256 | 256 |
| [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 | 0.8 |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 323443054.184000 | 323442090.51183 | | | |
| Observation start date | 2008-04-01T13:16:29 | 2008-04-01T13:01:30 | | | |
| [s] Observation end time (MET) | 323463054.184000 | 323464056.2629 | | | |
| Observation end date | 2008-04-01T18:49:49 | 2008-04-01T19:07:36 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



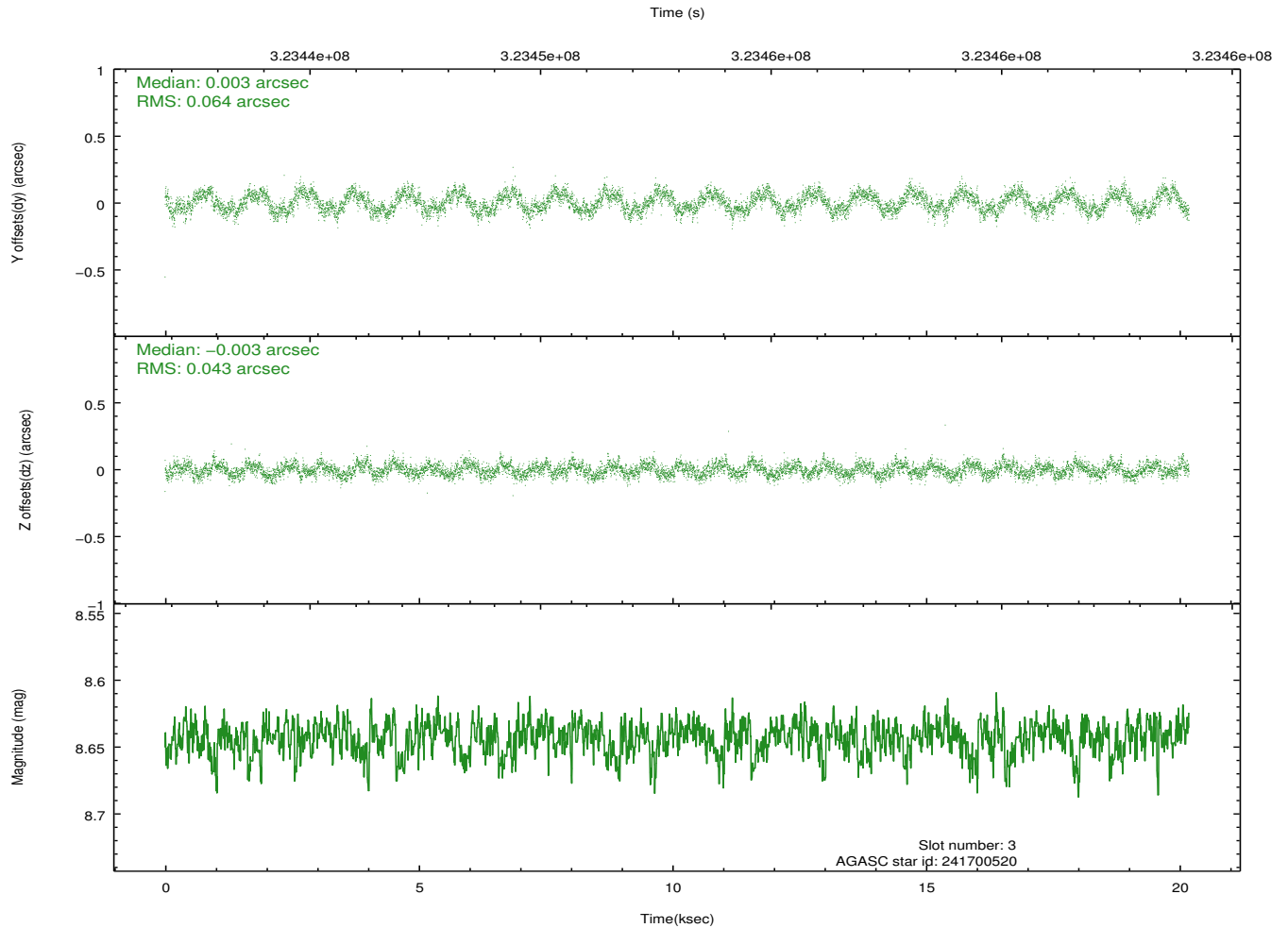
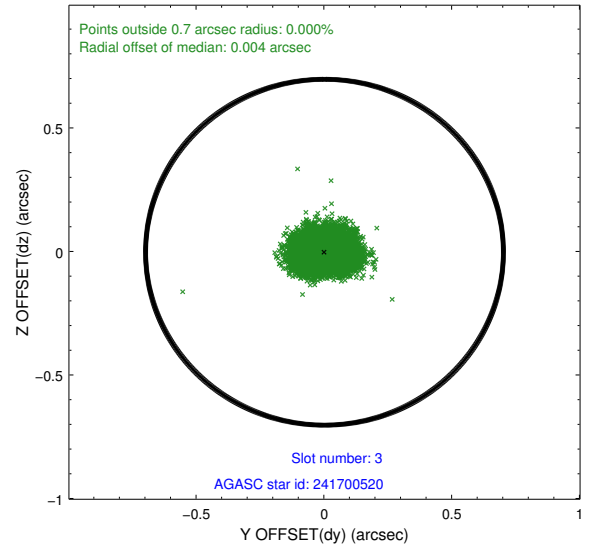
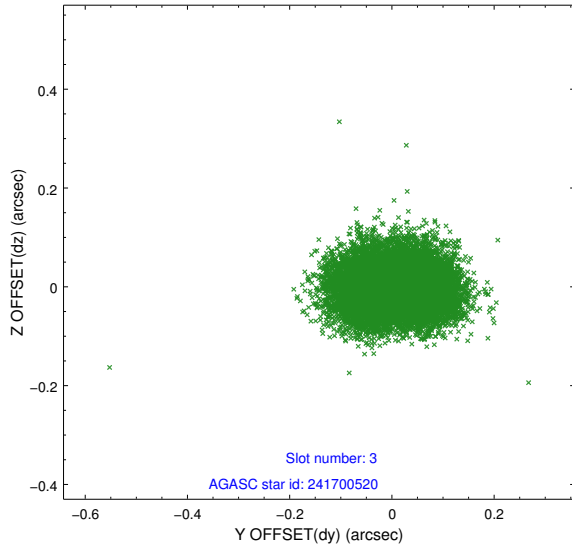


Slot Statistics

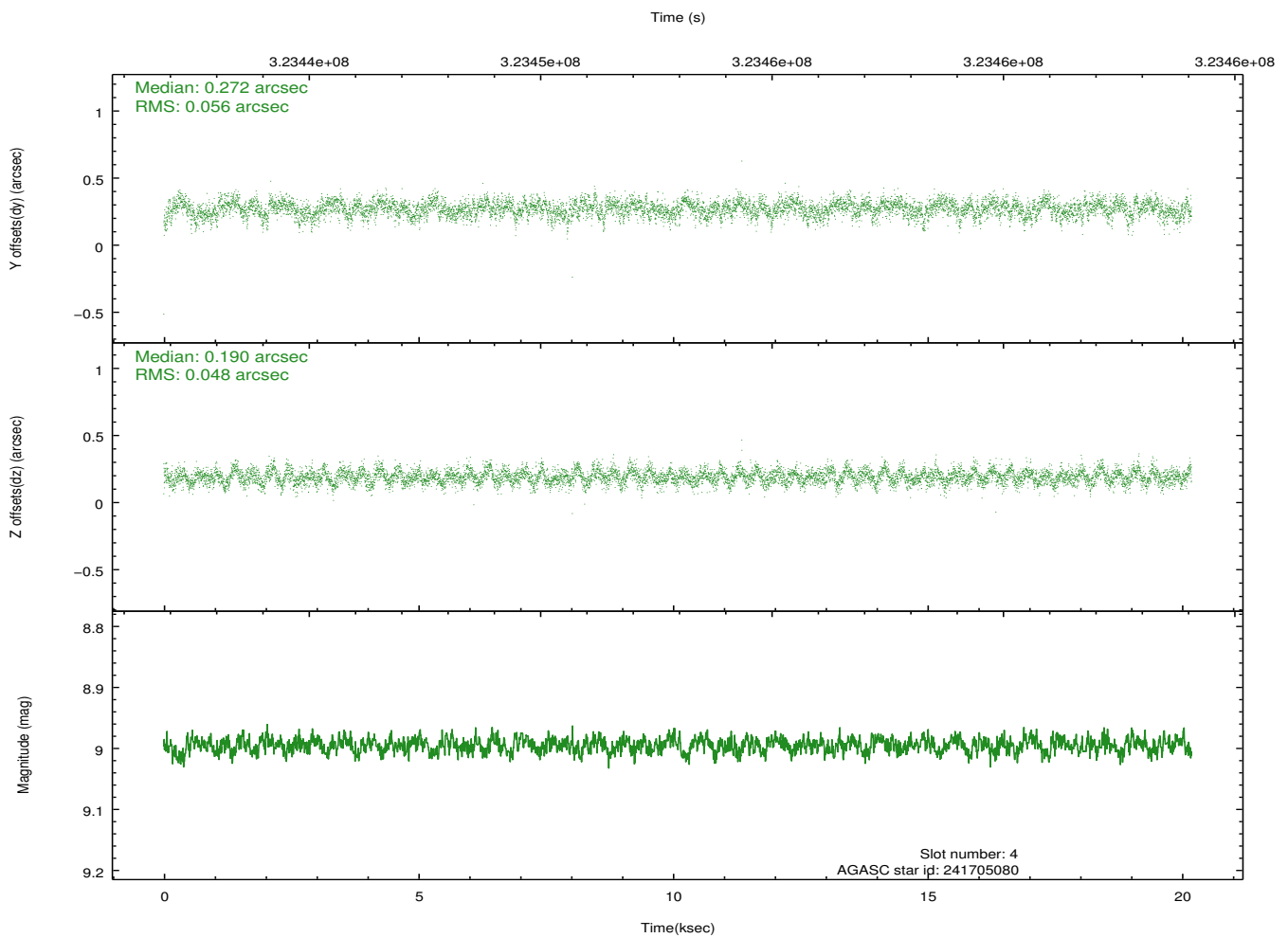
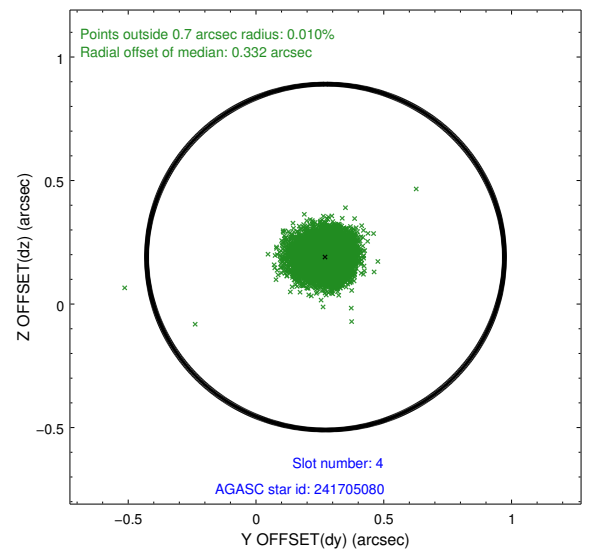
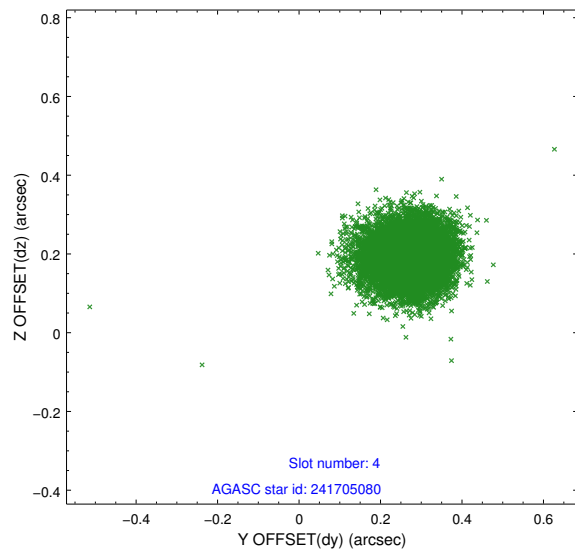
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.09 | 4925 | -0.047 | -0.021 | 0.007 | 0.012 | 0.000000 | 0.000000 | -765.96 | -1737.23 |
| 1 | FID | ACIS-S-4 | 7.19 | 4925 | 0.158 | 0.028 | 0.009 | 0.016 | 0.000000 | 0.000000 | 2147.41 | 171.14 |
| 2 | FID | ACIS-S-5 | 7.22 | 4925 | -0.142 | 0.001 | 0.012 | 0.019 | 0.000000 | 0.000000 | -1818.69 | 164.95 |
| 3 | GUIDE | 241700520 | 8.64 | 9848 | 0.003 | -0.003 | 0.084 | 0.127 | 74.420132 | 29.886487 | 2111.76 | 1652.42 |
| 4 | GUIDE | 241705080 | 9.00 | 9844 | 0.272 | 0.190 | 0.078 | 0.127 | 74.581428 | 29.847393 | 2337.48 | 2124.67 |
| 5 | GUIDE | 312870232 | 7.95 | 9848 | -0.118 | -0.123 | 0.073 | 0.114 | 73.950966 | 30.337905 | 256.77 | 497.64 |
| 6 | GUIDE | 312872256 | 8.03 | 9846 | -0.135 | -0.102 | 0.053 | 0.088 | 73.250802 | 30.830210 | -1877.05 | -1318.68 |
| 7 | GUIDE | 313012784 | 8.25 | 9844 | -0.022 | 0.034 | 0.070 | 0.112 | 74.505645 | 30.125716 | 1309.26 | 2063.33 |

2.4 Star Slots

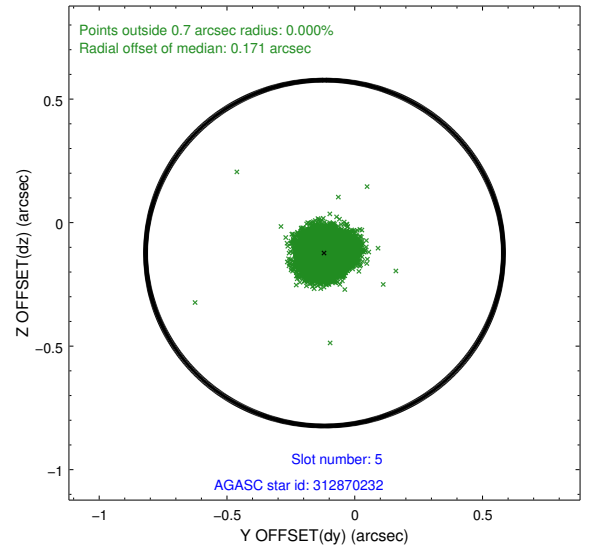
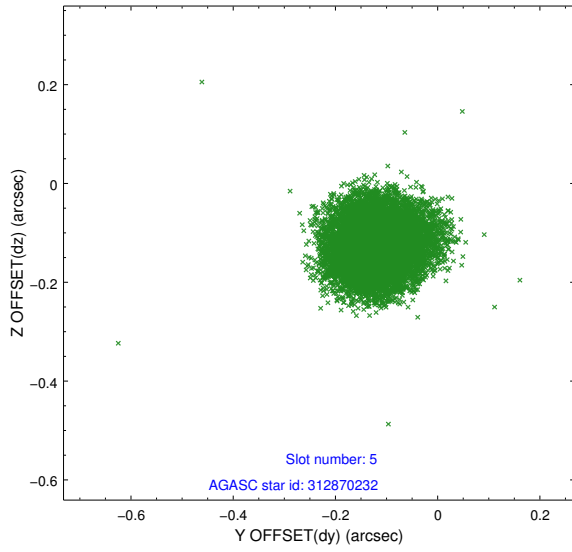
2.4.1 Slot 3



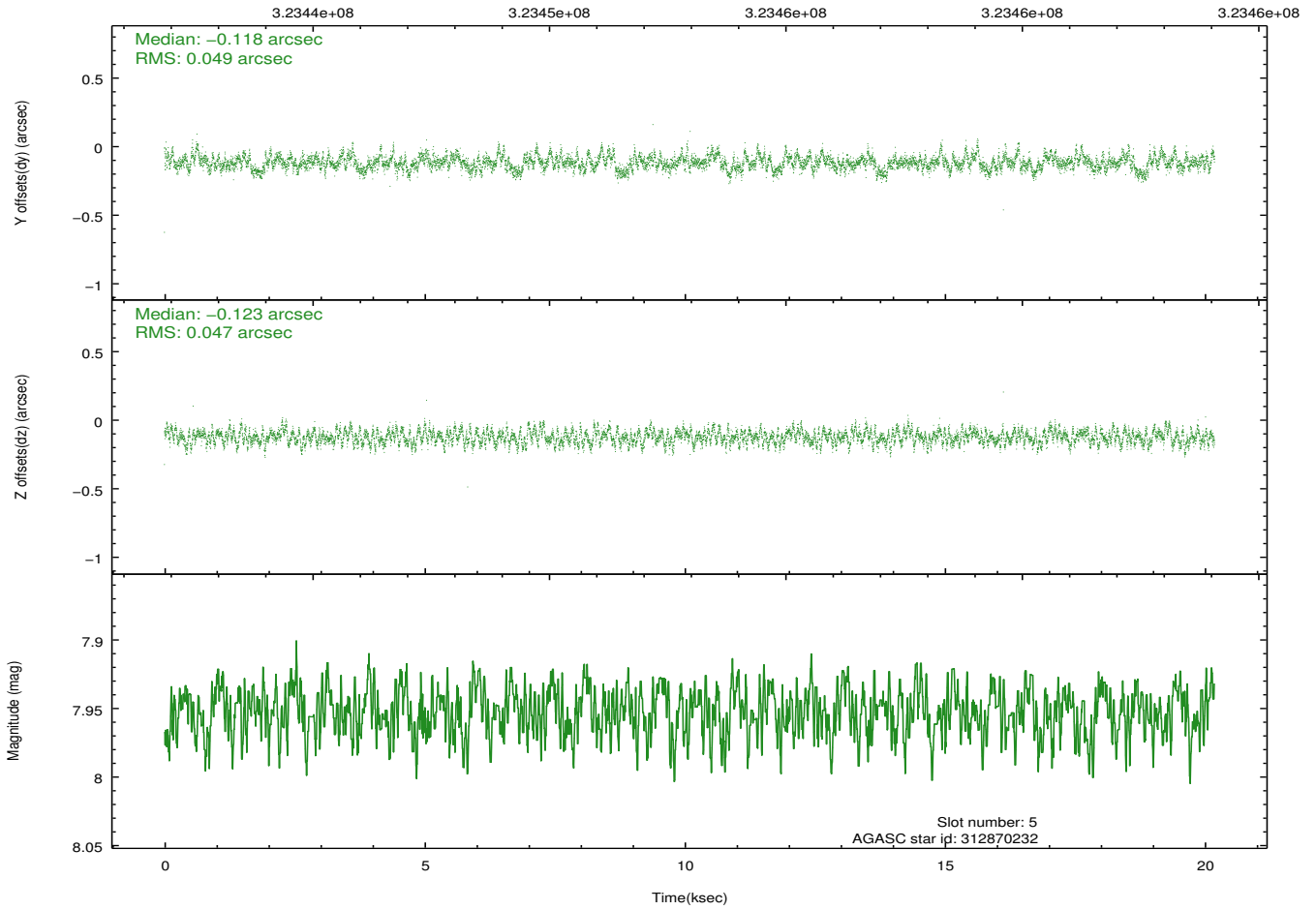
2.4.2 Slot 4



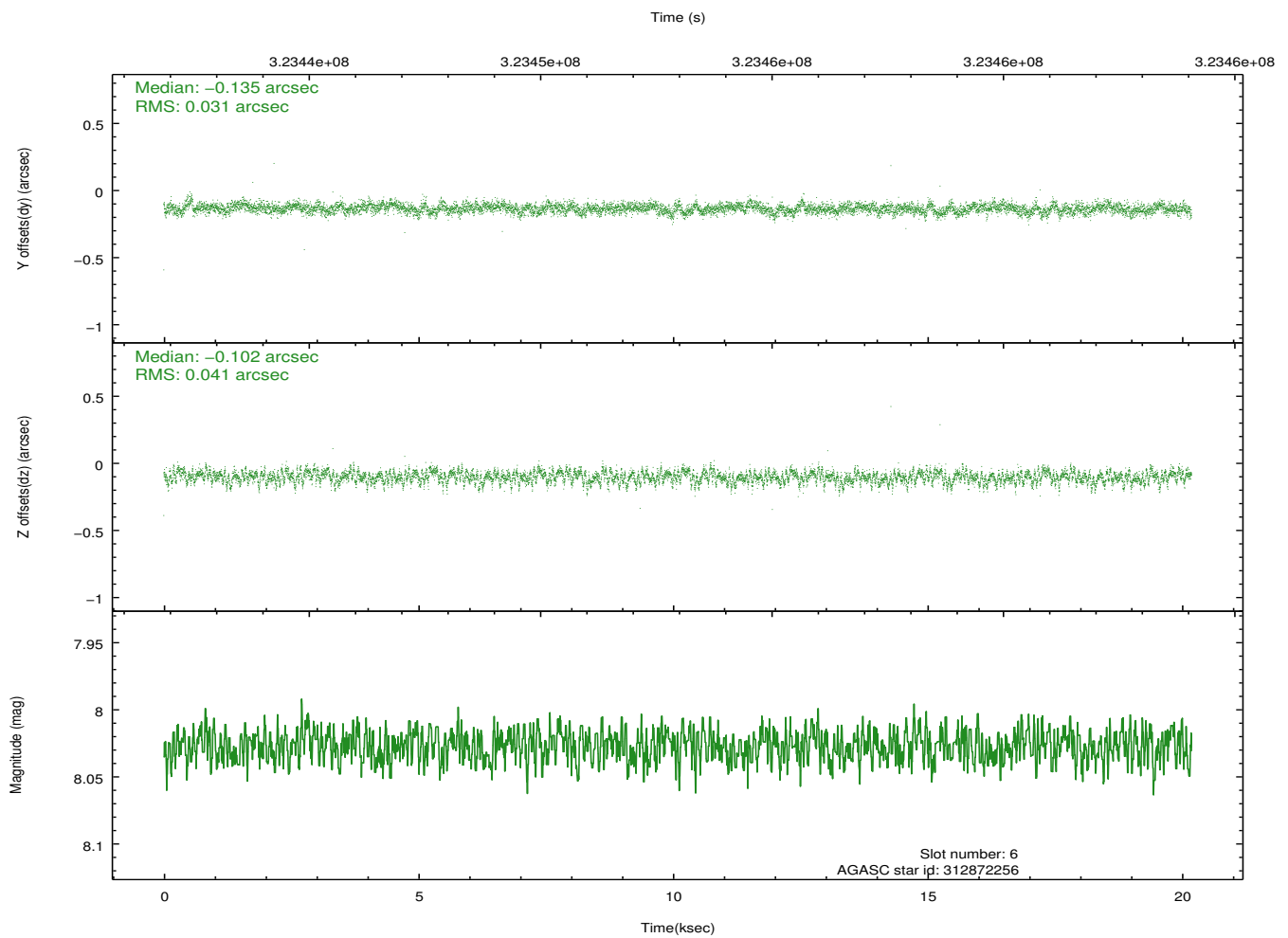
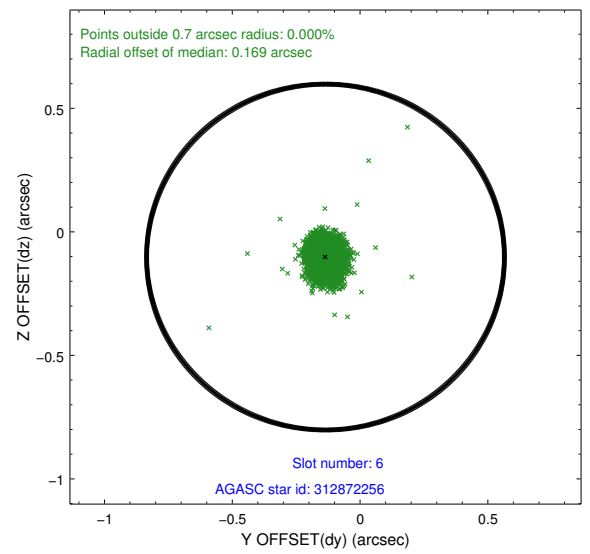
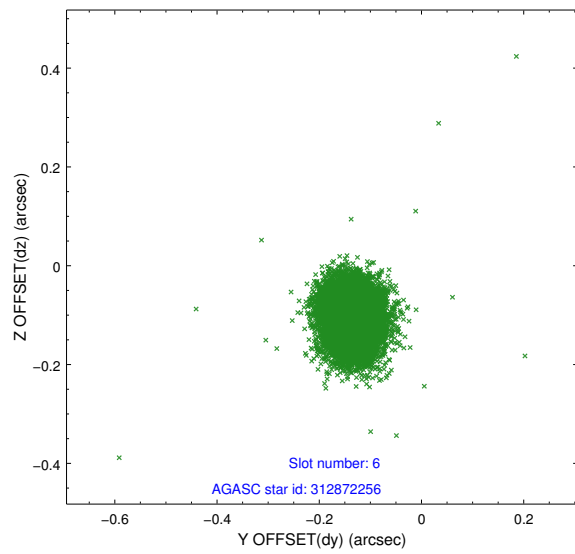
2.4.3 Slot 5



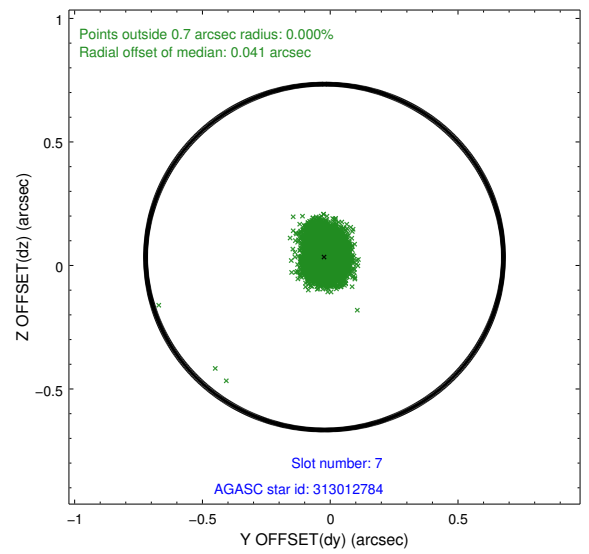
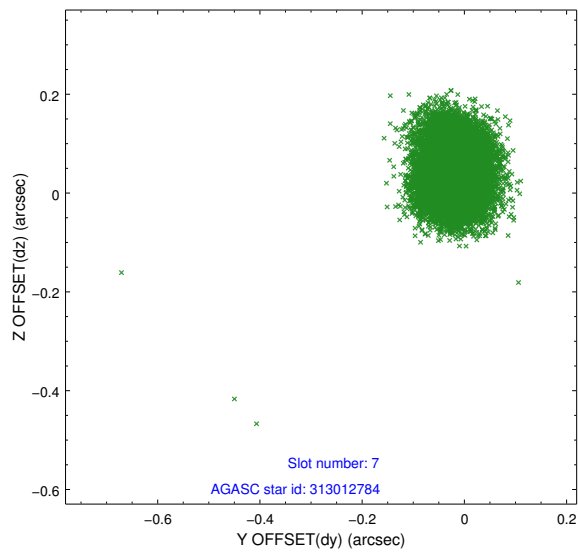
Time (s)



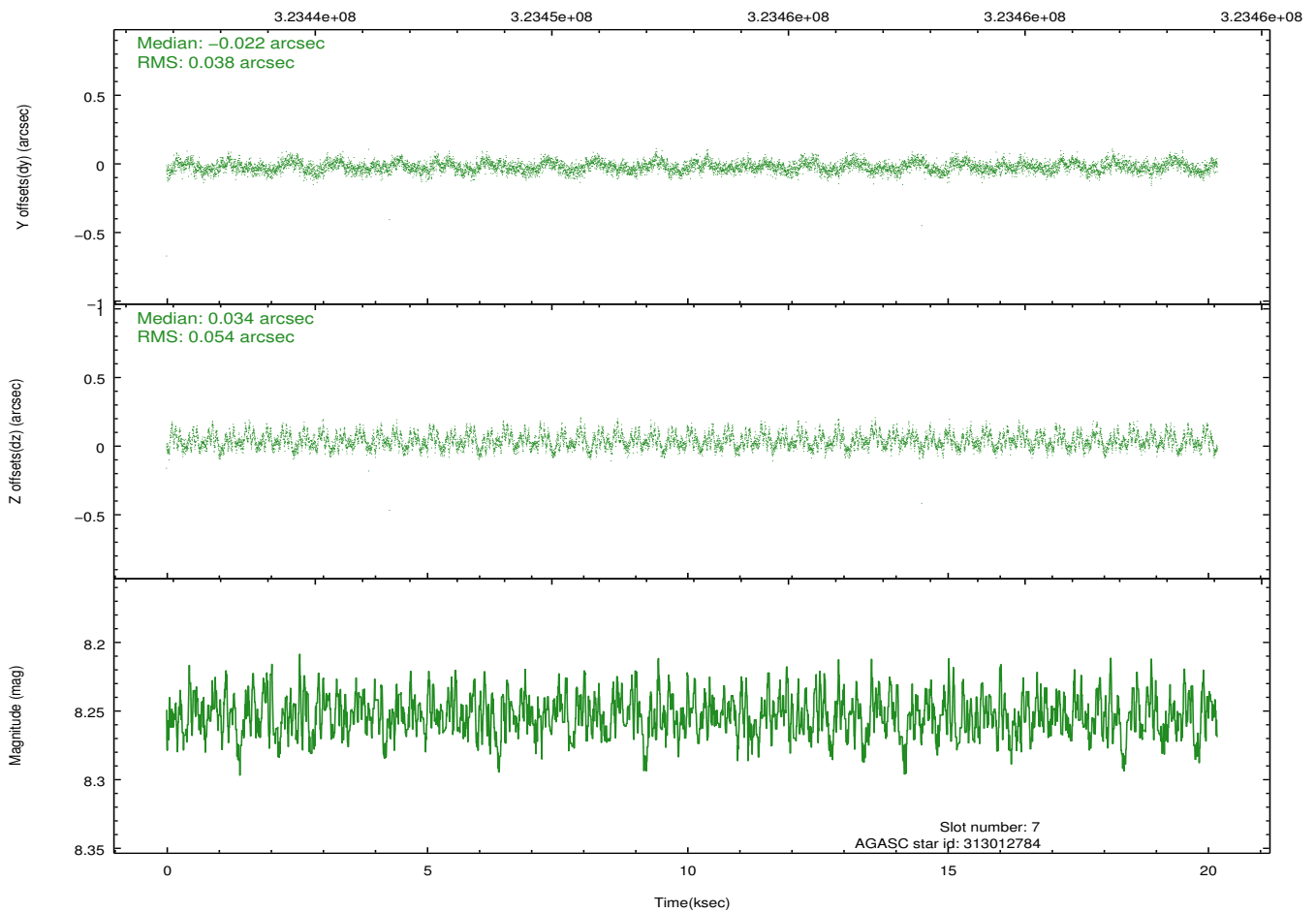
2.4.4 Slot 6



2.4.5 Slot 7

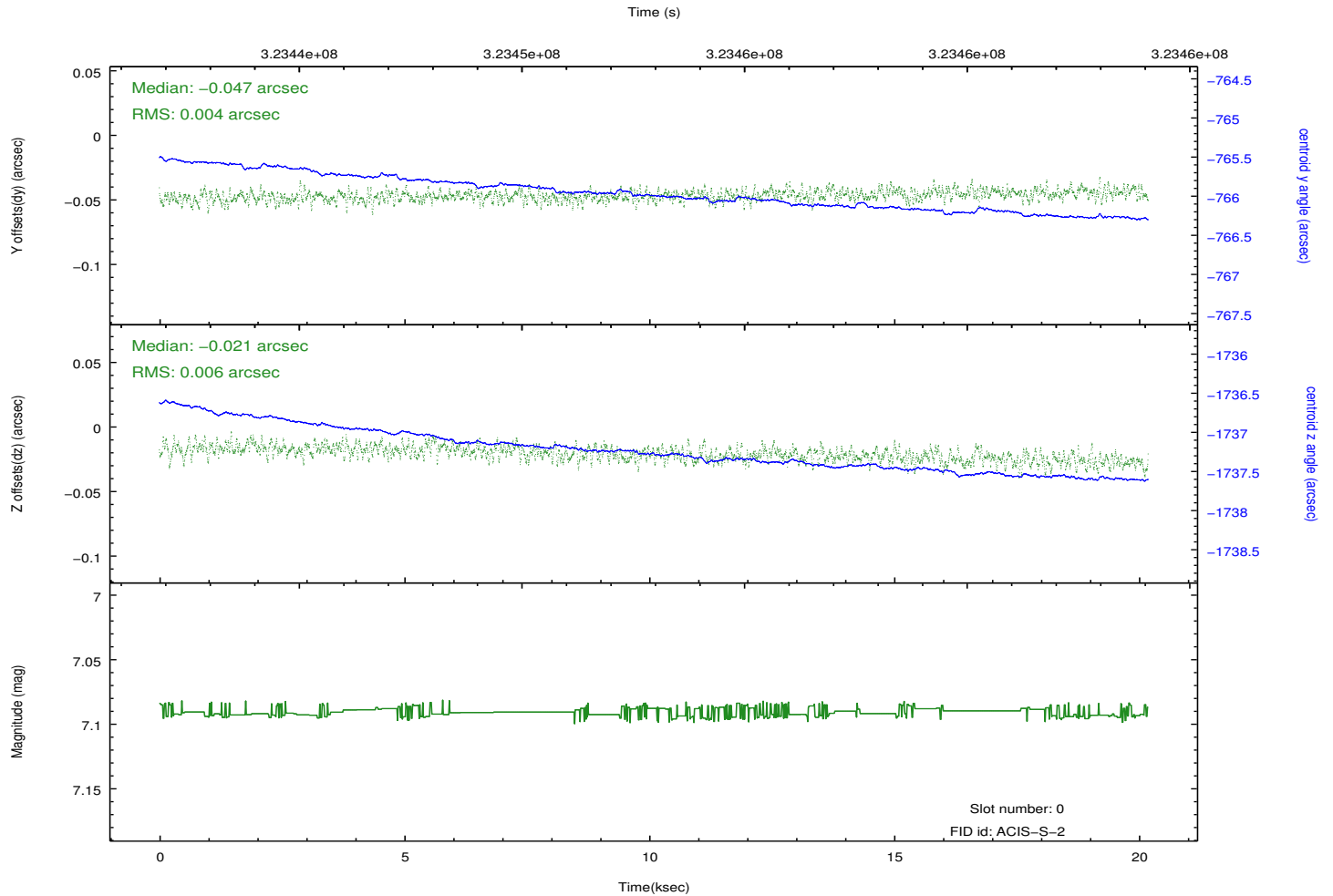
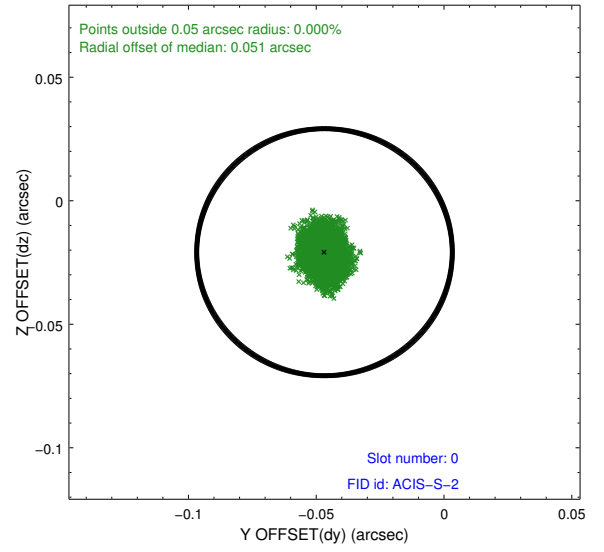
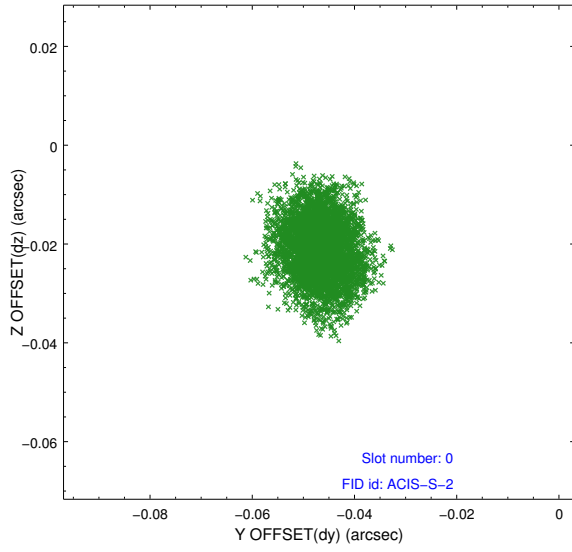


Time (s)

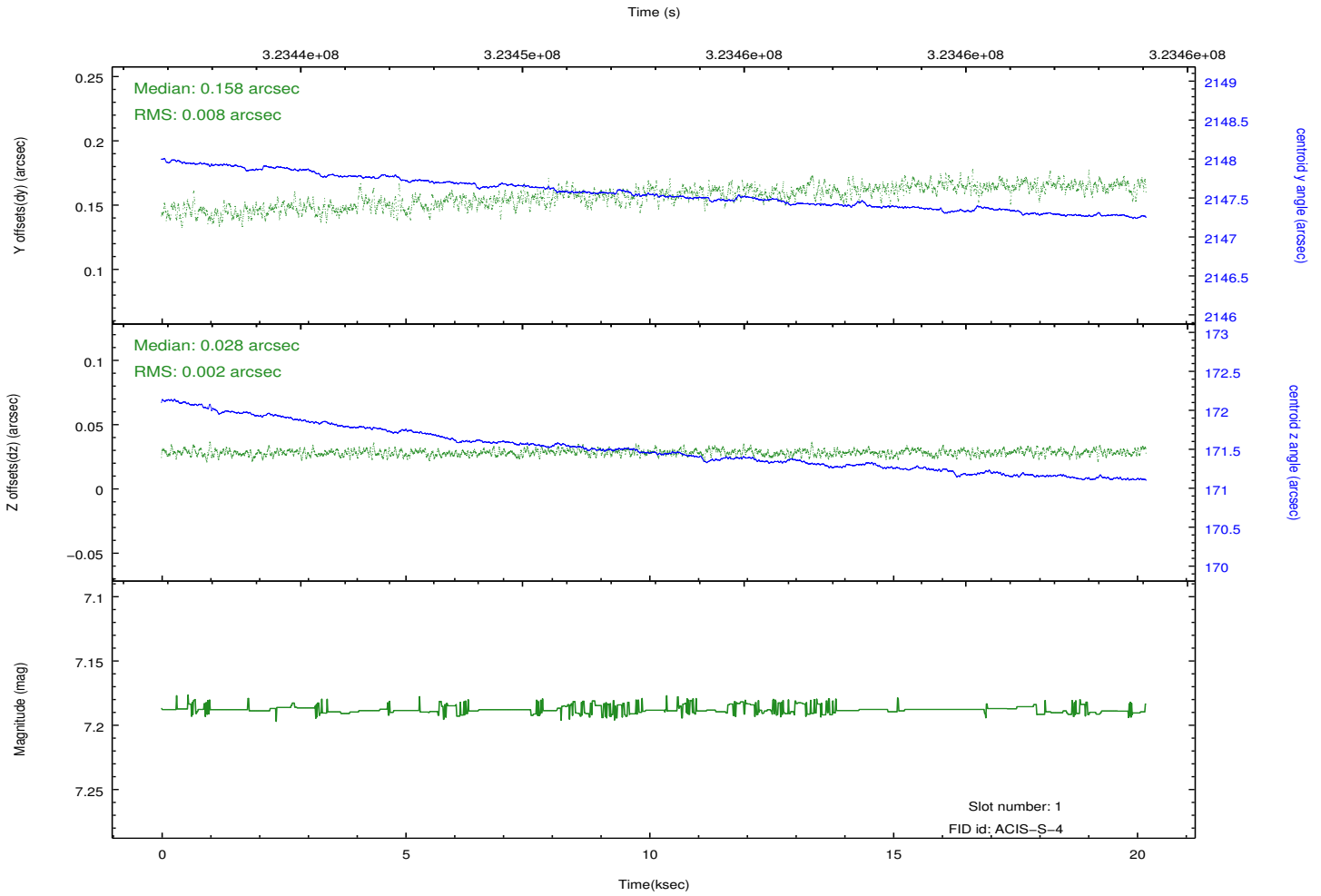
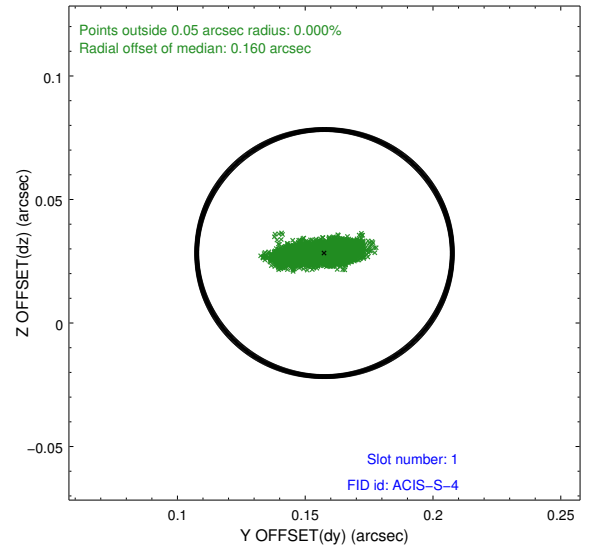
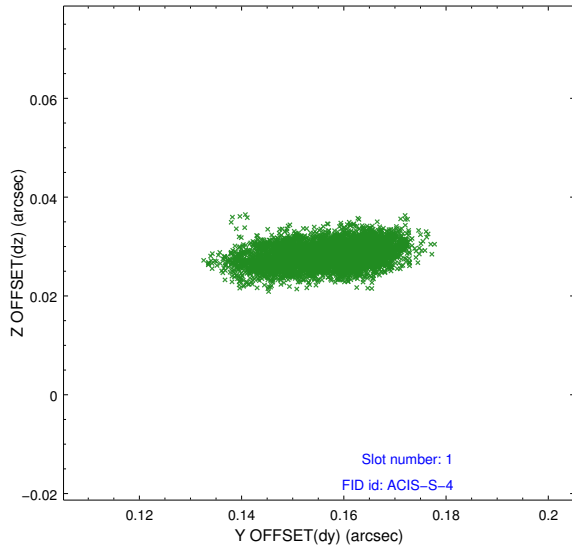


2.5 FID Slots

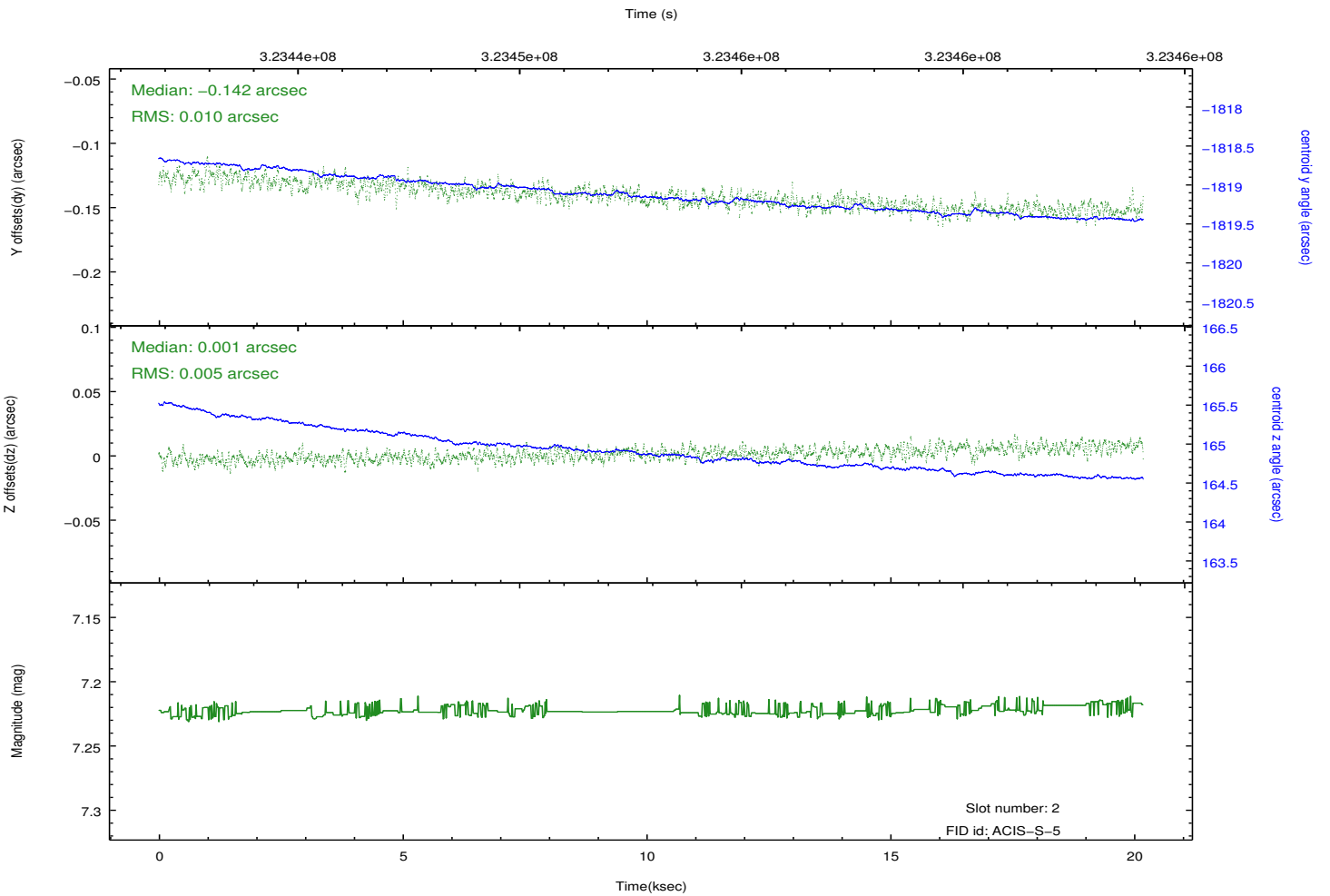
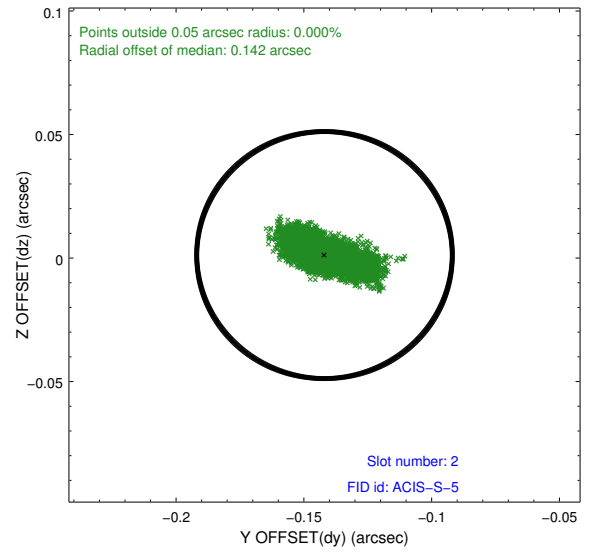
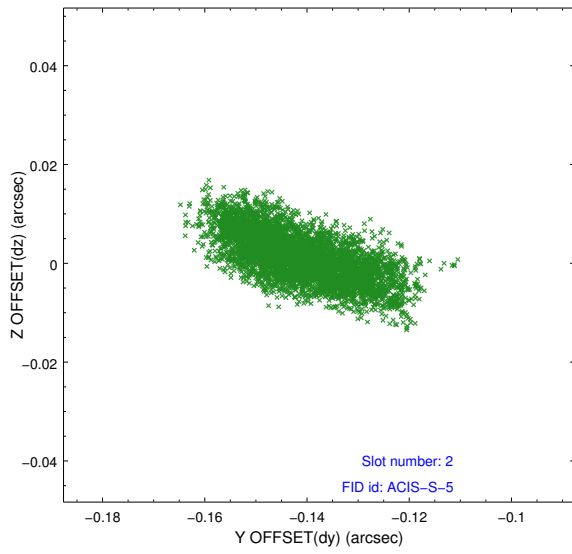
2.5.1 Slot 0



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) | 2012.05.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 20.1872003 |

A.2 Comments

Joint Proposal: HST