

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7330 - L2 Version 2
Chandra X-Ray Center

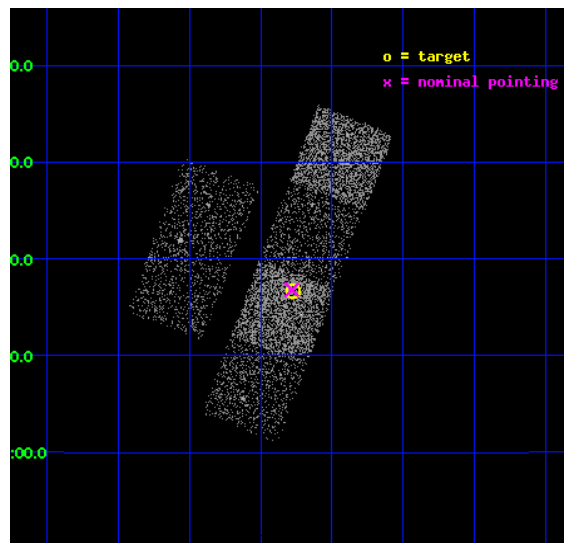
L2 Processing Date : Apr 2 2012

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1 Front

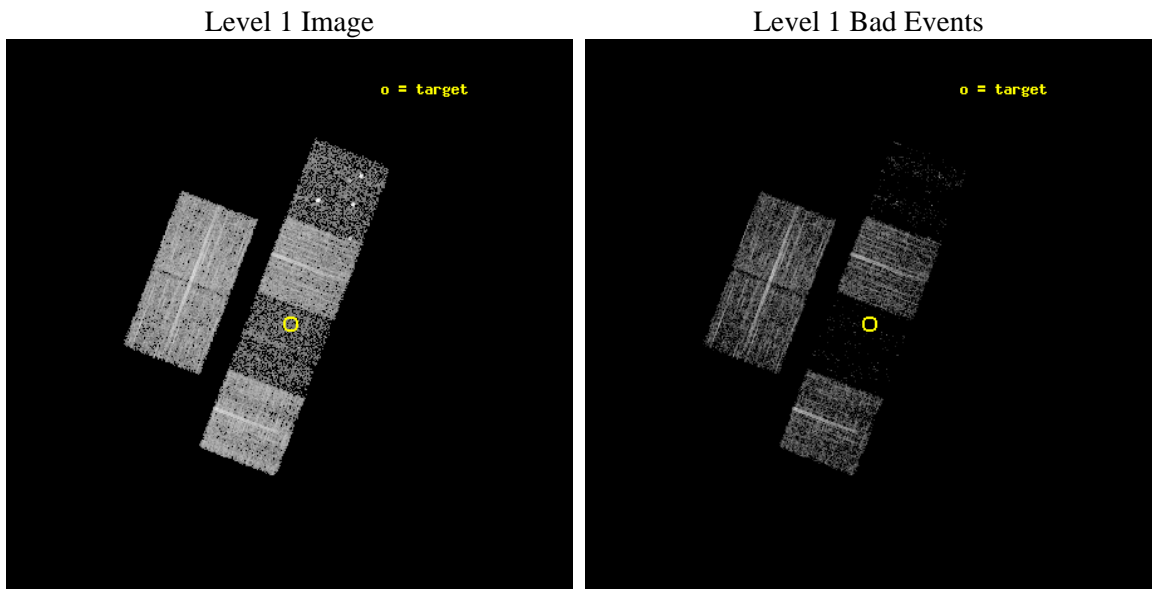
| | | |
|----------|--|---|
| seq_num | 100063 | Sequence number |
| obs_id | 7330 | Observation id |
| title | An Extremely Close Encounter with the Disintegrating Comet 73P/SW3 | |
| observer | Dr. Scott Wolk | Principal investigator |
| object | 73P-B/Schwassmann-Wachmann 3 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 359.444032 | Observer's specified target RA [deg] |
| dec_targ | 5.27823 | Observer's specified target Dec [deg] |
| ra_nom | 359.44520845806 | Nominal RA [deg] |
| dec_nom | 5.2799566702162 | Nominal Dec [deg] |
| roll_nom | 110.78598428494 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 4105.5999847054 | Sum of GTIs [s] |
| livetime | 4053.6124056036 | Livetime [s] |
| ontime2 | 4105.5999847054 | Sum of GTIs [s] |
| ontime3 | 4105.5999847054 | Sum of GTIs [s] |
| ontime5 | 4105.5999847054 | Sum of GTIs [s] |
| ontime6 | 4105.5999847054 | Sum of GTIs [s] |
| ontime7 | 4105.5999847054 | Sum of GTIs [s] |
| ontime8 | 4105.5999847054 | Sum of GTIs [s] |
| l2events | 10098 | Number of level 2 events |



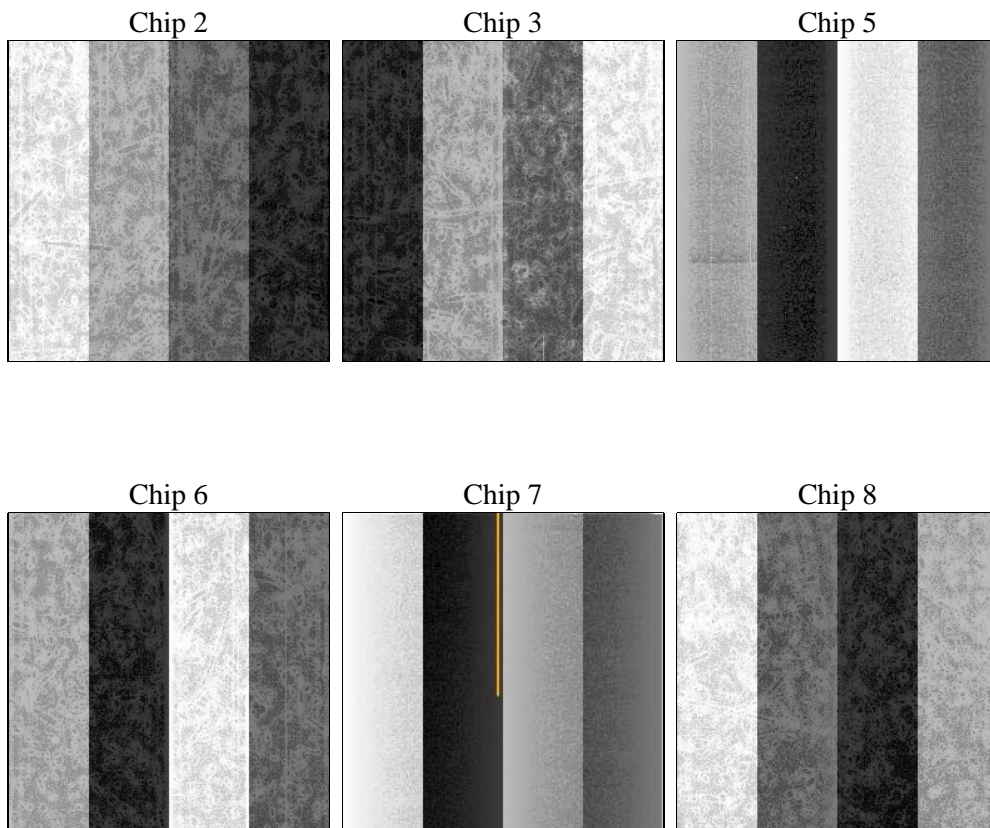
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 4000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 4105.5999847054 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 4105.5999847054 | Sum of GTIs [s] |
| date | 2012-04-02T03:14:06 | Date and time of file creation | ontime3 | 4105.5999847054 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 4105.5999847054 | Sum of GTIs [s] |
| | | | ontime6 | 4105.5999847054 | Sum of GTIs [s] |
| | | | ontime7 | 4105.5999847054 | Sum of GTIs [s] |
| | | | ontime8 | 4105.5999847054 | Sum of GTIs [s] |
| | | | l1events | 111448 | Number of level 1 events |

2.1.4 Events

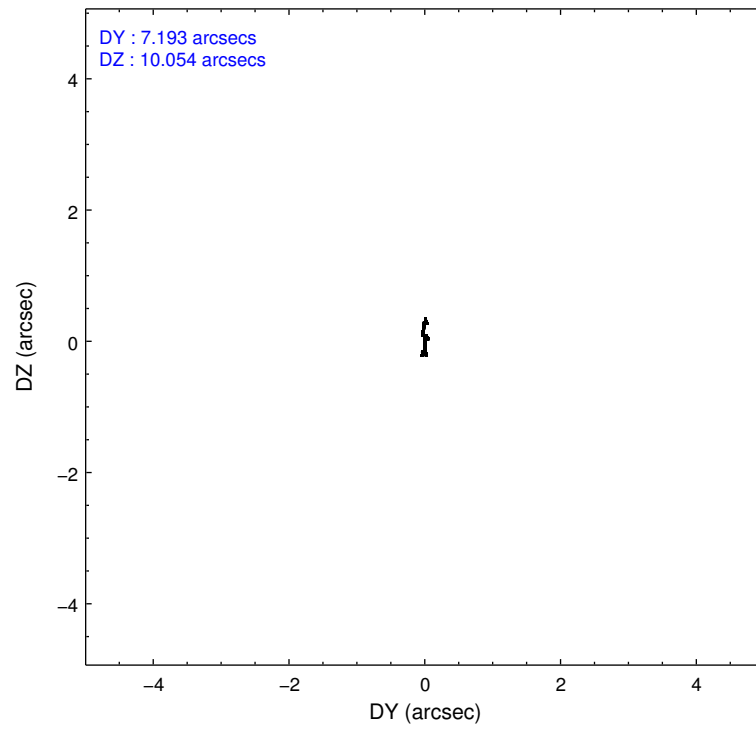
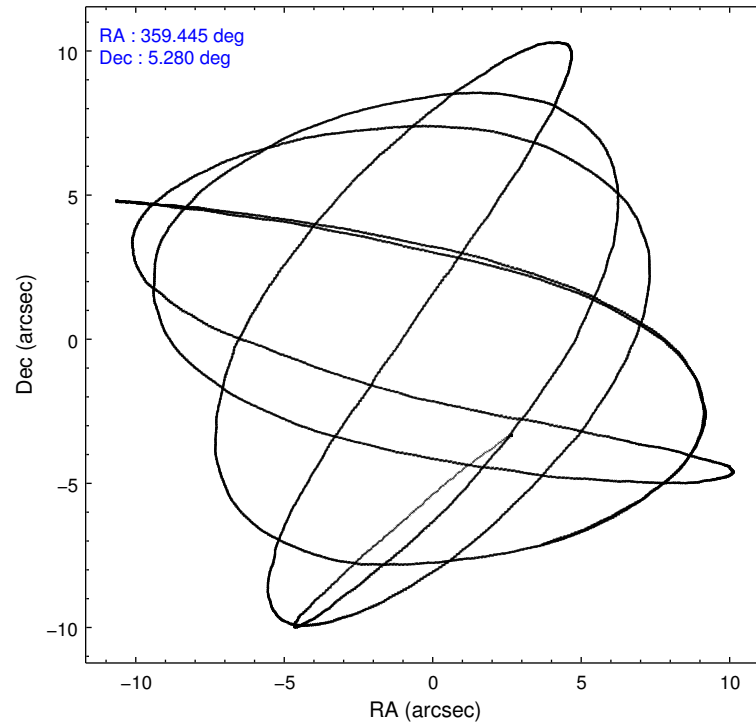
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 27214 | 22029 | 7666 | 22973 | 4657 | 26909 |
| rejected events | 25881 | 21072 | 1724 | 21639 | 979 | 20342 |
| rejected % | 95% | 95% | 22% | 94% | 21% | 75% |

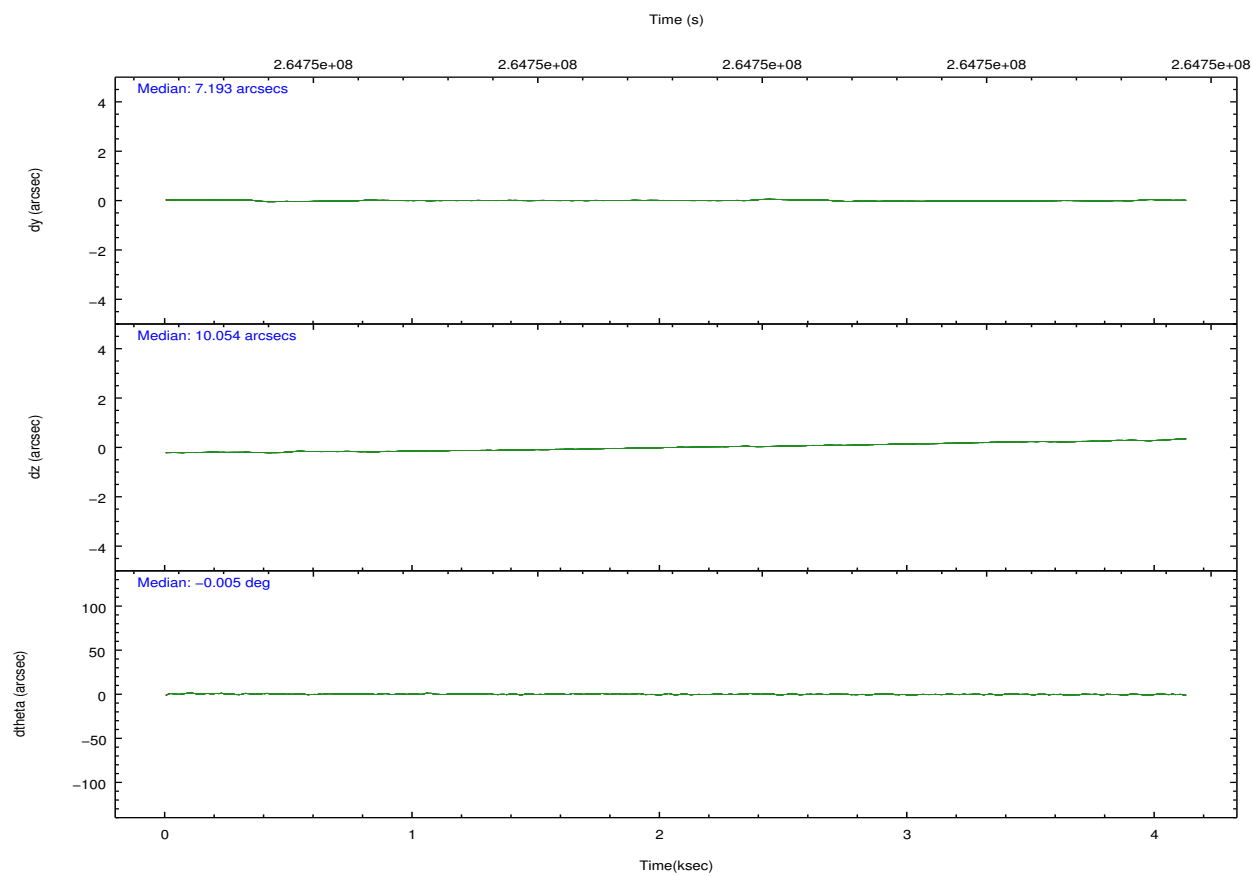
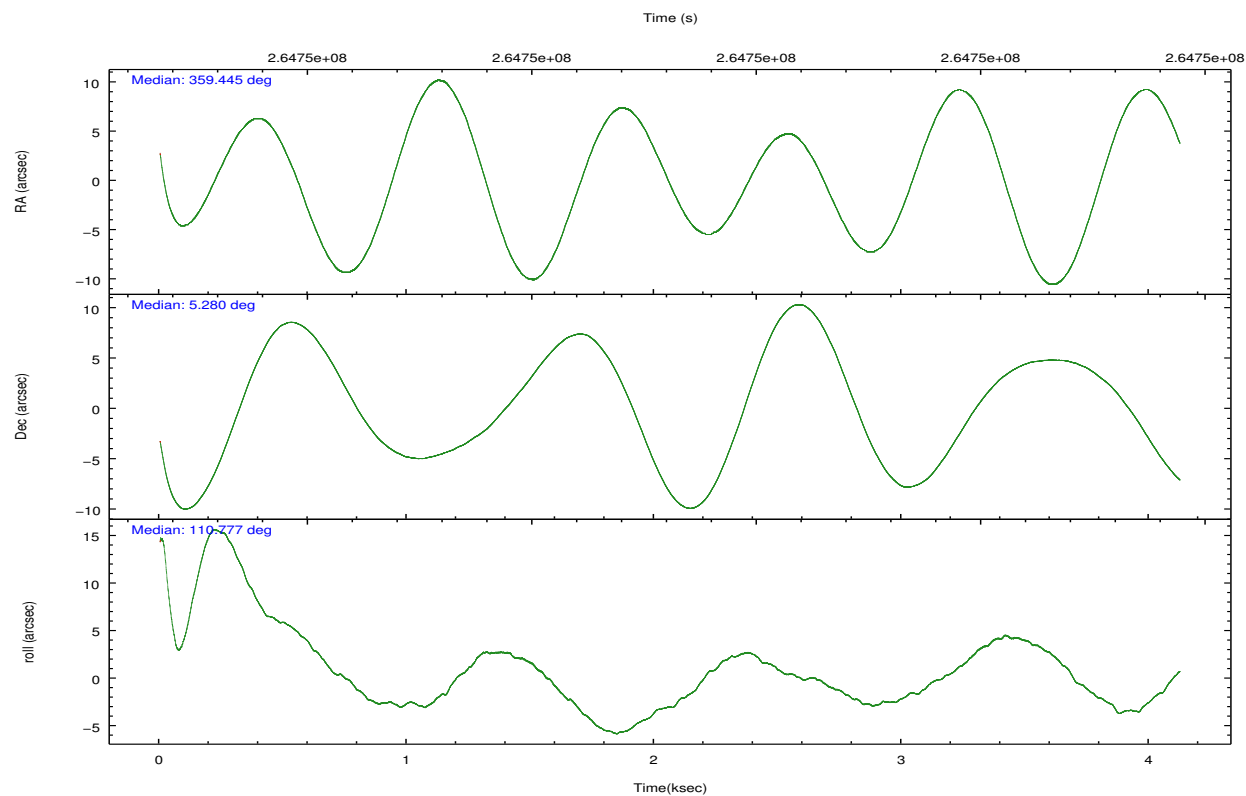
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 647 | 486 | 2858 | 688 | 1242 | 2052 |
| | 2% | 2% | 37% | 2% | 26% | 7% |
| grade 1 events | 8 | 5 | 63 | 12 | 18 | 24 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 314 | 110 | 1856 | 252 | 1043 | 1460 |
| | 1% | 0% | 24% | 1% | 22% | 5% |
| grade 3 events | 151 | 152 | 394 | 177 | 444 | 854 |
| | 0% | 0% | 5% | 0% | 9% | 3% |
| grade 4 events | 155 | 141 | 396 | 159 | 471 | 770 |
| | 0% | 0% | 5% | 0% | 10% | 2% |
| grade 5 events | 37 | 36 | 315 | 40 | 155 | 154 |
| | 0% | 0% | 4% | 0% | 3% | 0% |
| grade 6 events | 110 | 95 | 620 | 101 | 610 | 1652 |
| | 0% | 0% | 8% | 0% | 13% | 6% |
| grade 7 events | 25792 | 21004 | 1164 | 21544 | 674 | 19943 |
| | 94% | 95% | 15% | 93% | 14% | 74% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 359.466579 | 359.4452084580565 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 5.263056 | 5.2799566702162 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 110.627358 | 110.7859842849442 | [s] Primary exposure time | 0.000000 | 3.2 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 264749682.184000 | 264748502.8624 | | | |
| Observation start date | 2006-05-23T05:33:37 | 2006-05-23T05:15:02 | | | |
| [s] Observation end time (MET) | 264753682.184000 | 264753815.95015 | | | |
| Observation end date | 2006-05-23T06:40:17 | 2006-05-23T06:43:35 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



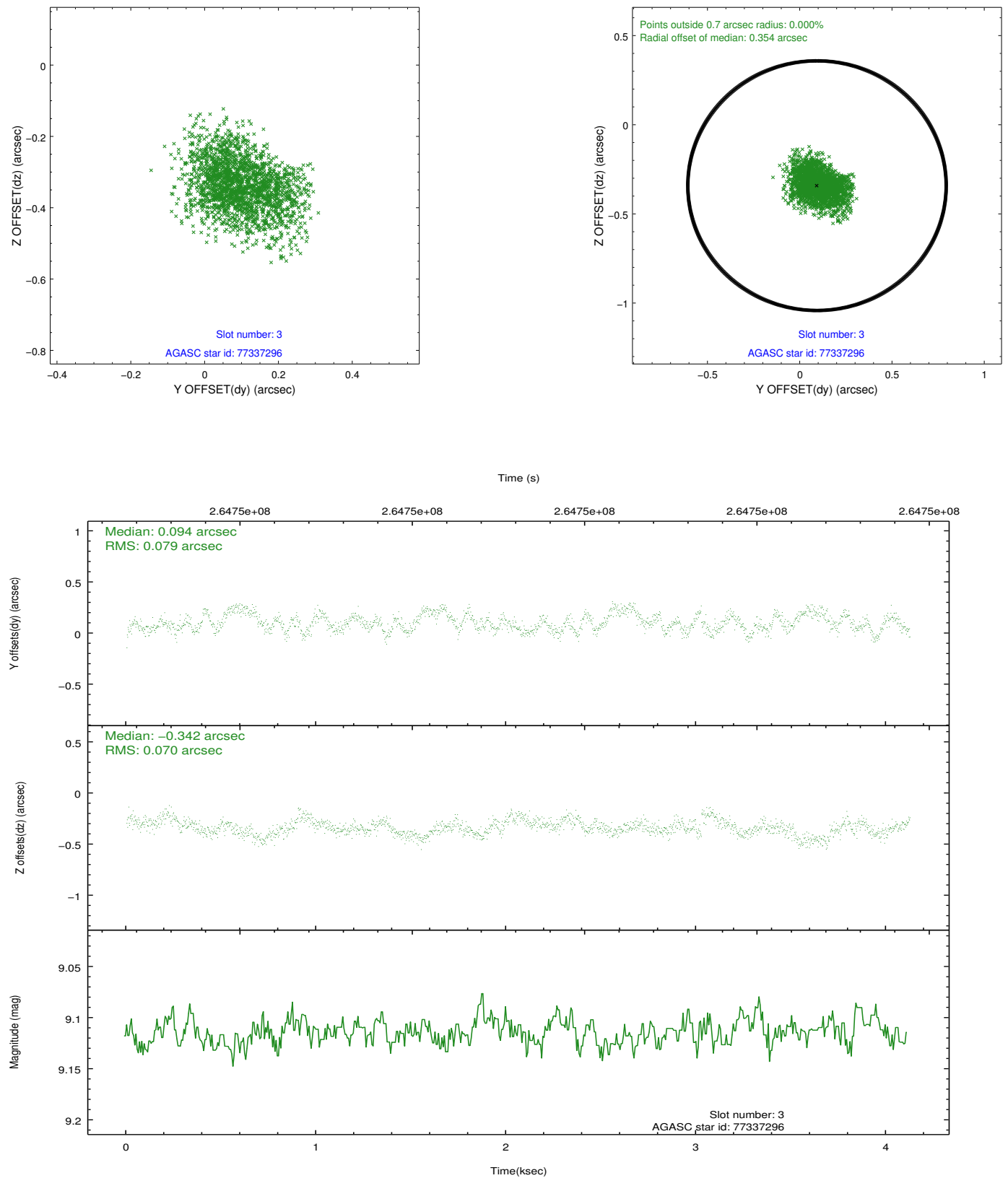


Slot Statistics

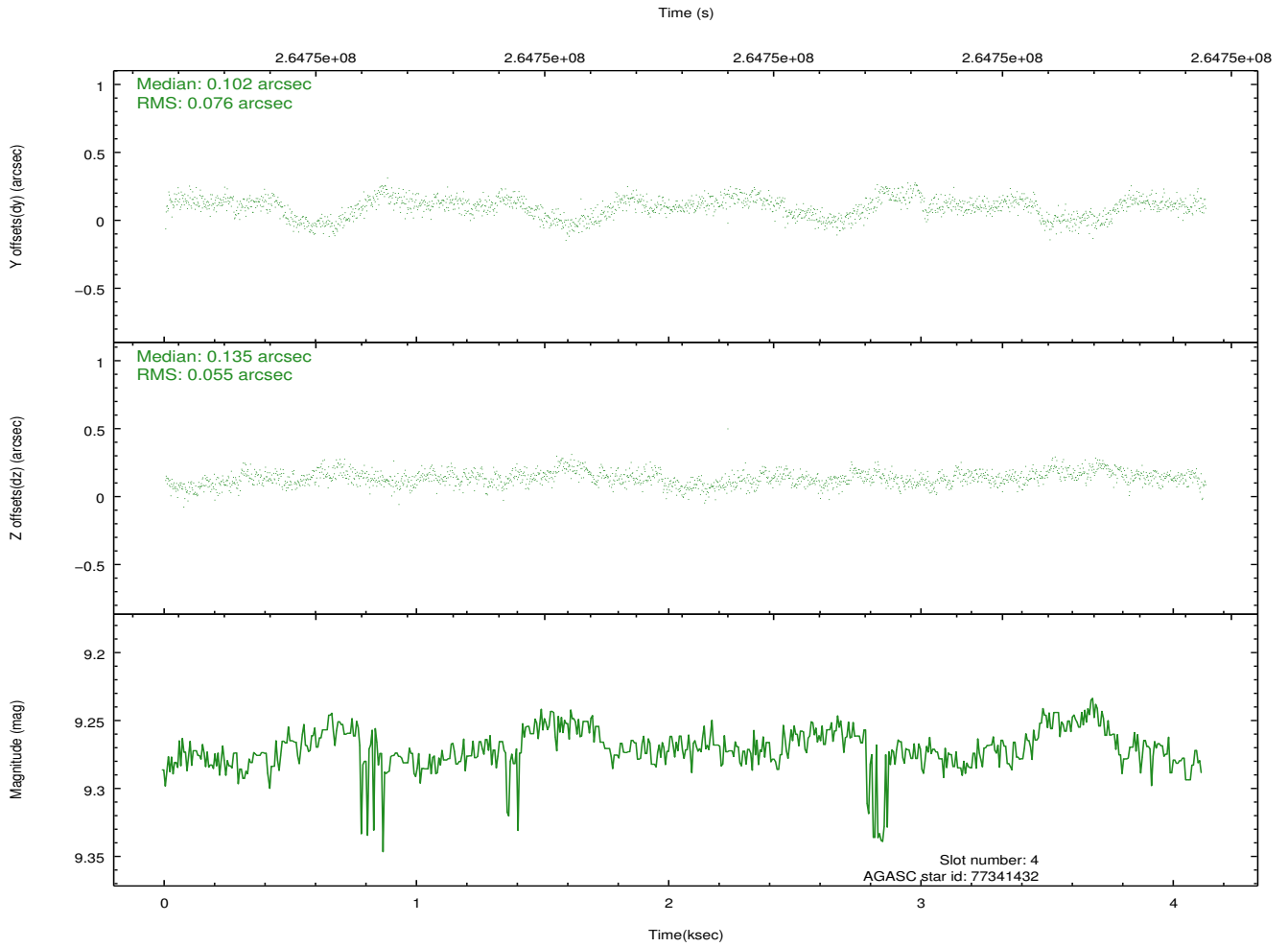
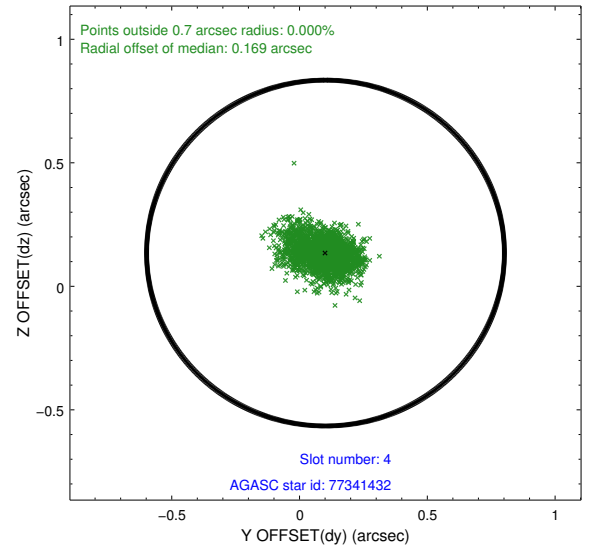
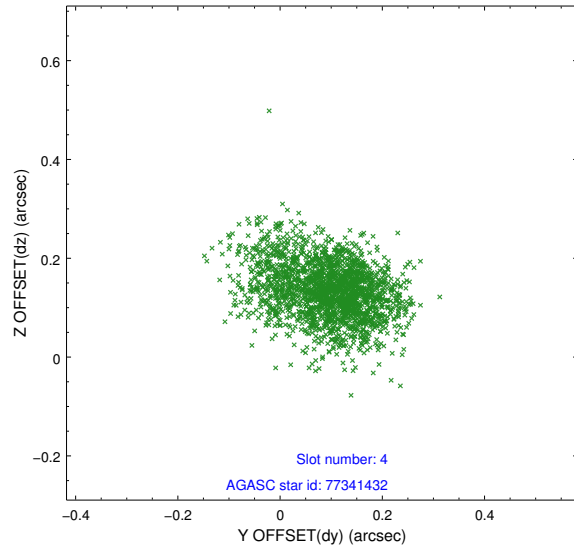
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|------------|----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 1005 | -0.052 | -0.027 | 0.007 | 0.012 | 0.000000 | 0.000000 | -759.96 | -1731.36 |
| 1 | FID | ACIS-S-4 | 7.21 | 1006 | 0.104 | 0.032 | 0.006 | 0.012 | 0.000000 | 0.000000 | 2152.75 | 175.69 |
| 2 | FID | ACIS-S-5 | 7.24 | 1005 | -0.083 | 0.004 | 0.008 | 0.013 | 0.000000 | 0.000000 | -1810.93 | 170.96 |
| 3 | GUIDE | 77337296 | 9.11 | 2011 | 0.094 | -0.342 | 0.113 | 0.182 | 359.075081 | 4.626492 | -1649.63 | 2121.47 |
| 4 | GUIDE | 77341432 | 9.27 | 2010 | 0.102 | 0.135 | 0.098 | 0.167 | 359.793064 | 4.723435 | -2230.89 | -410.90 |
| 5 | GUIDE | 77738096 | 8.78 | 2000 | -0.177 | 0.060 | 0.069 | 0.109 | 359.448323 | 5.404347 | 498.15 | -117.53 |
| 6 | GUIDE | 77340744 | 9.24 | 2010 | 0.112 | 0.072 | 0.086 | 0.142 | 359.949603 | 4.749030 | -2340.90 | -969.82 |
| 7 | GUIDE | 77737864 | 9.37 | 2011 | -0.131 | 0.077 | 0.082 | 0.134 | 359.593574 | 5.648848 | 1138.78 | -914.81 |

2.4 Star Slots

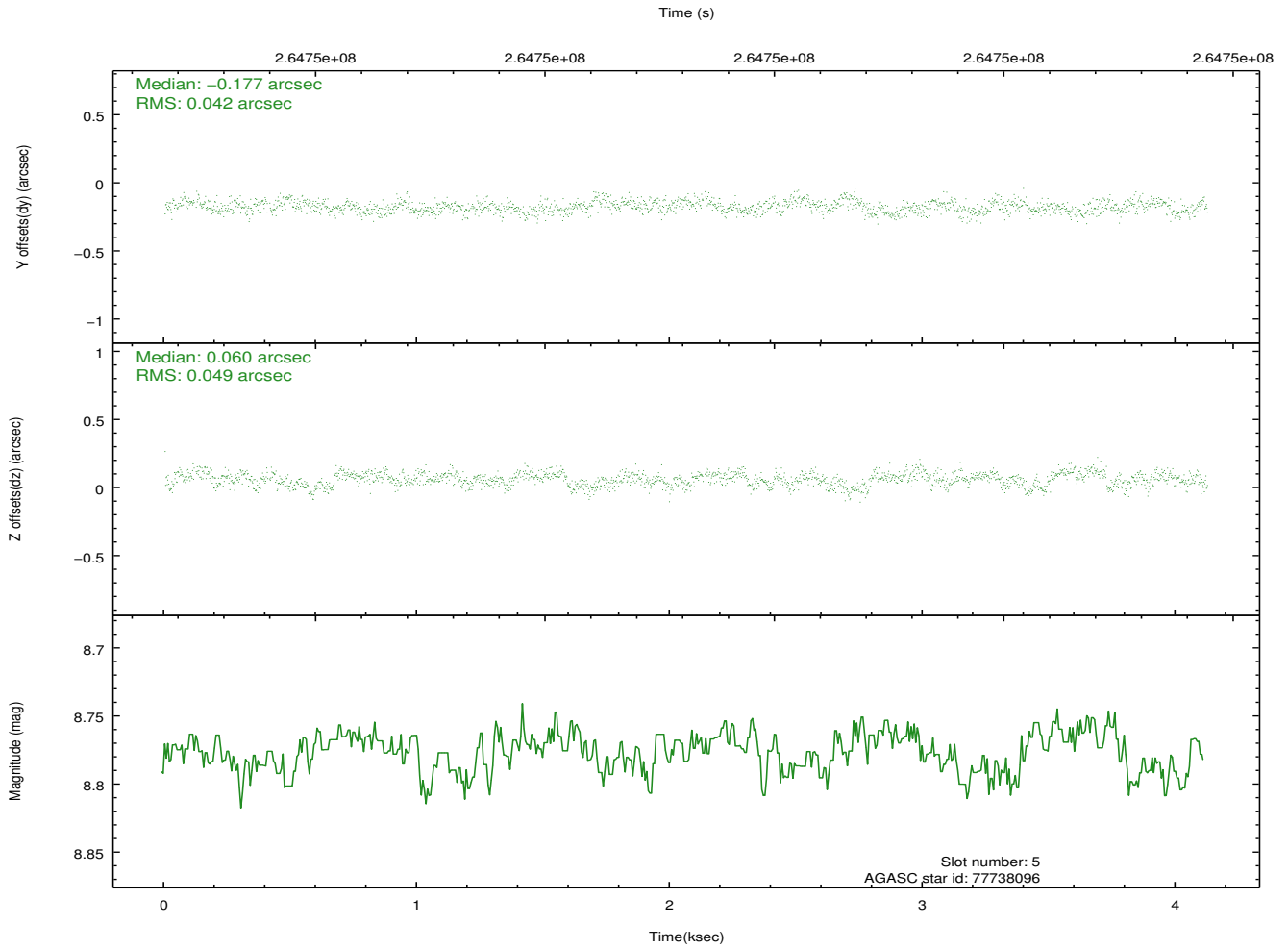
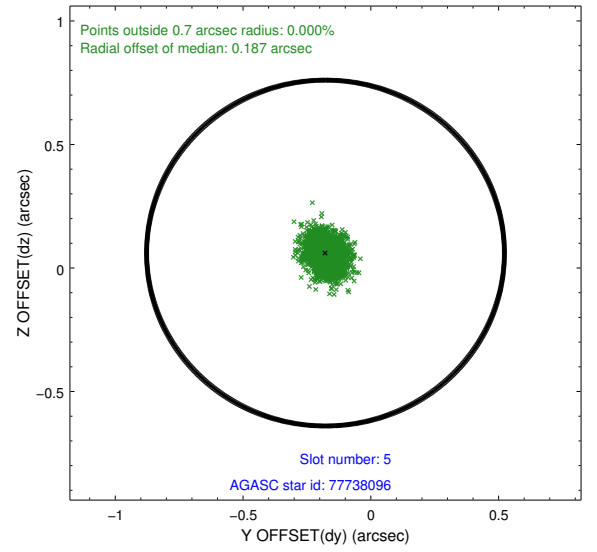
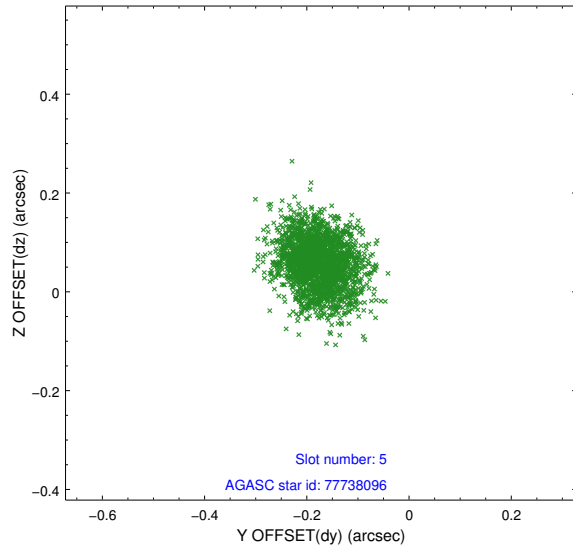
2.4.1 Slot 3



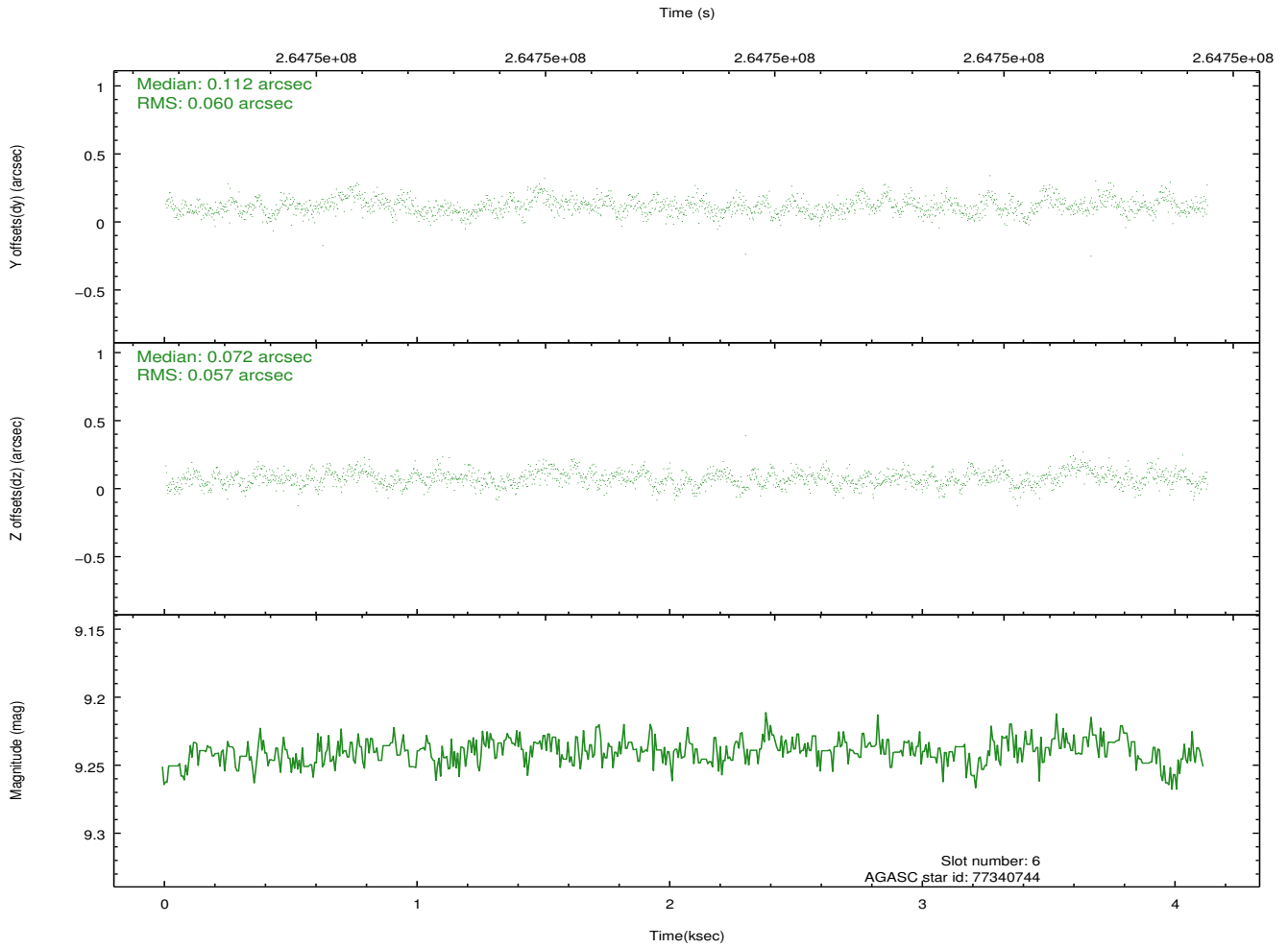
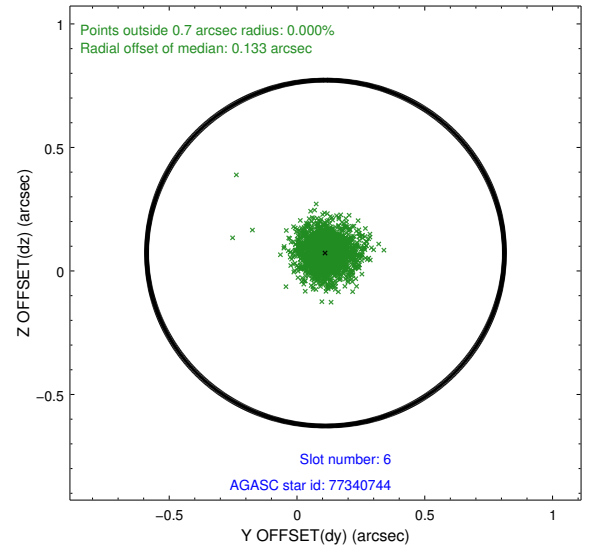
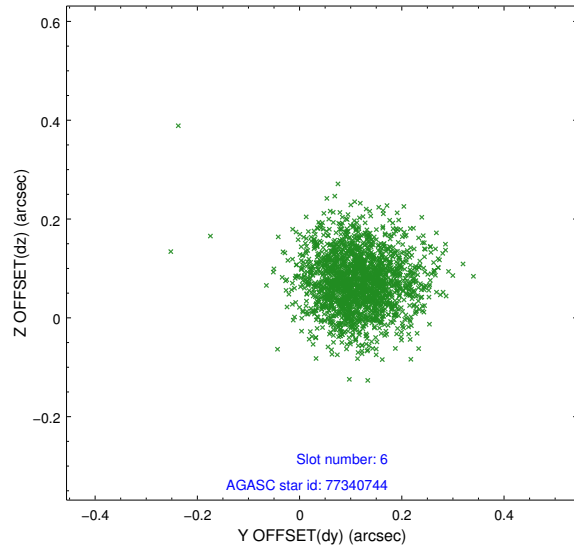
2.4.2 Slot 4



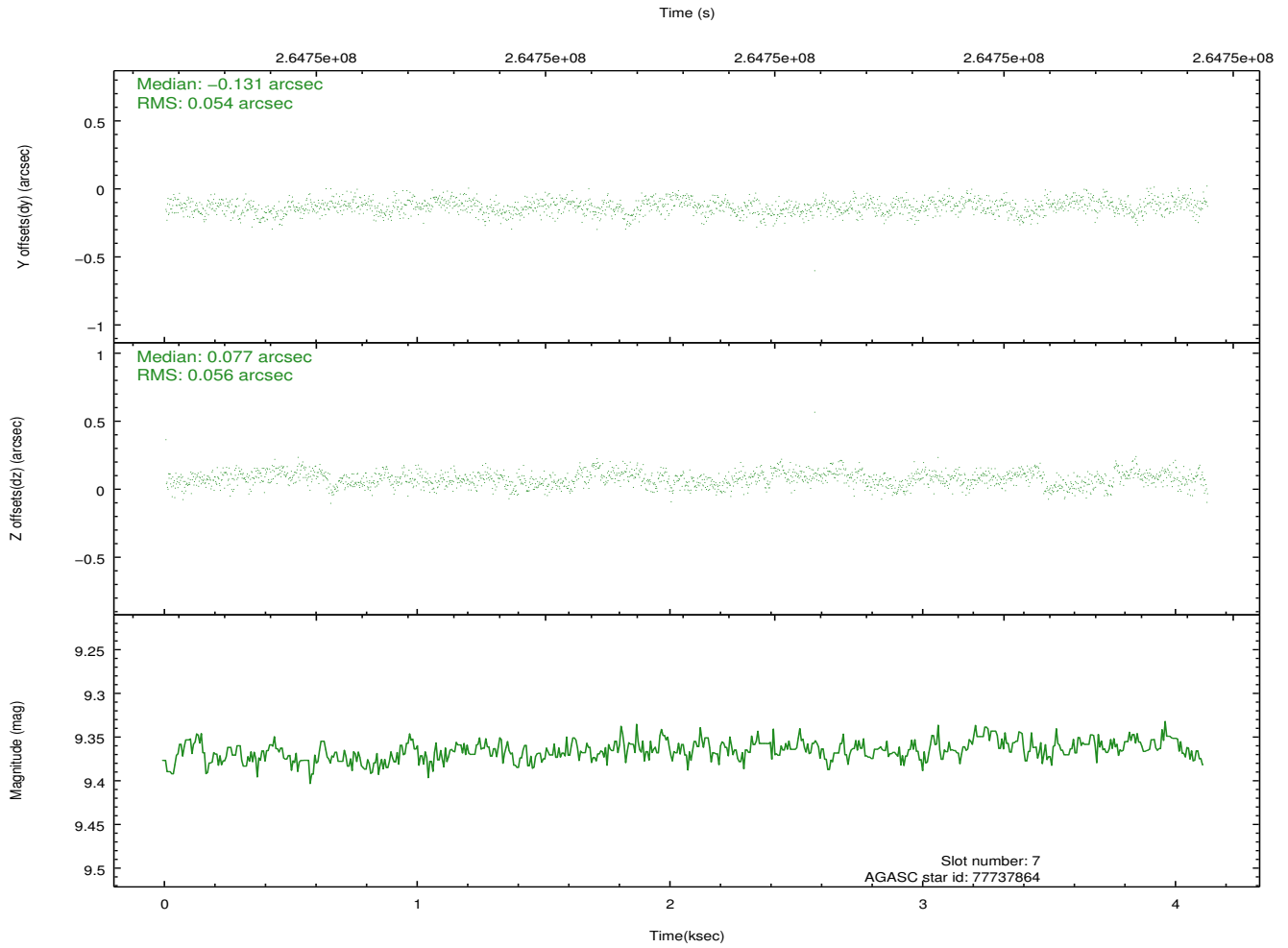
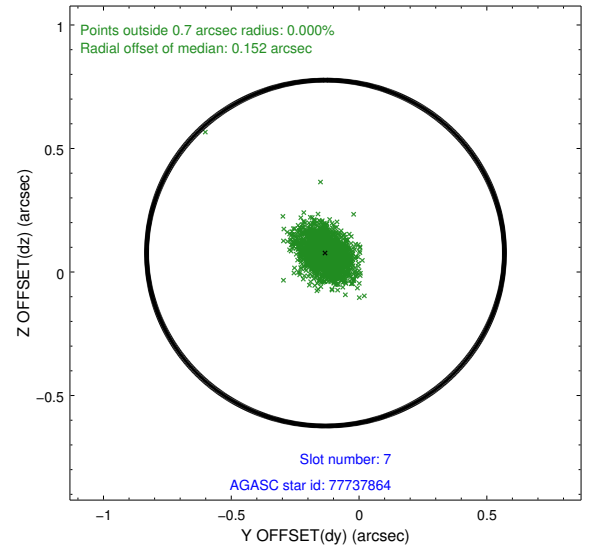
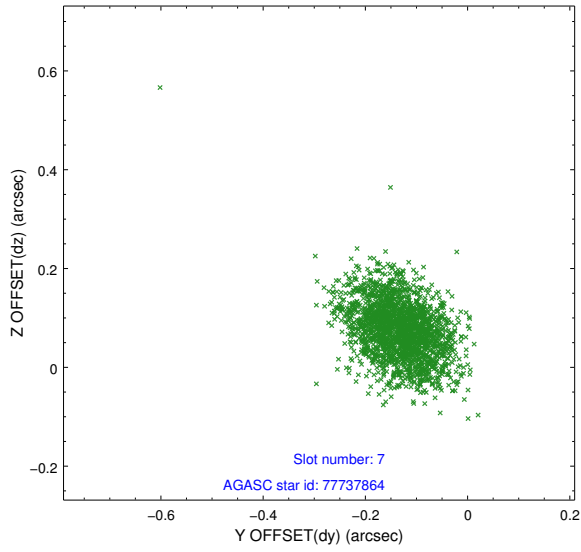
2.4.3 Slot 5



2.4.4 Slot 6

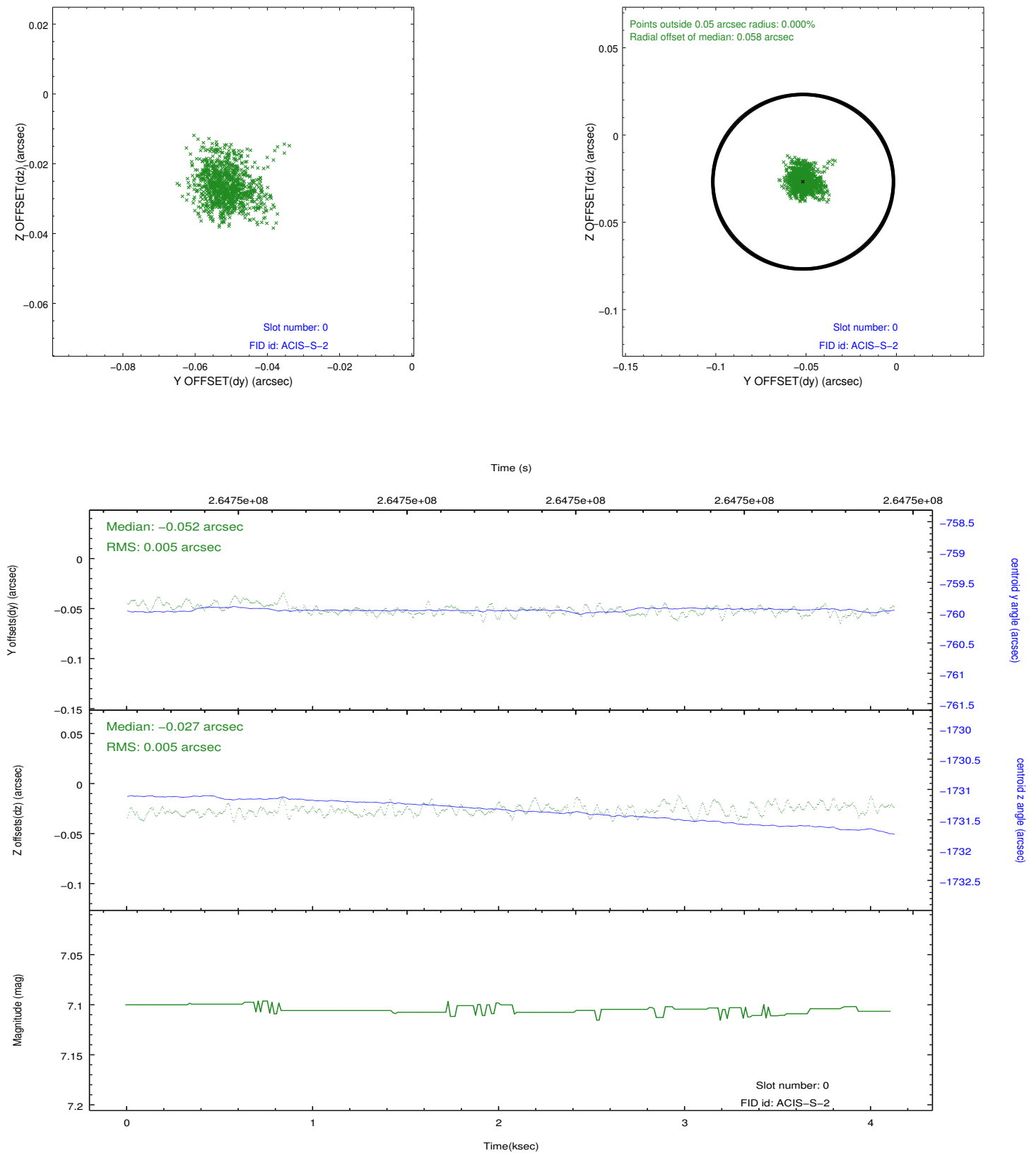


2.4.5 Slot 7

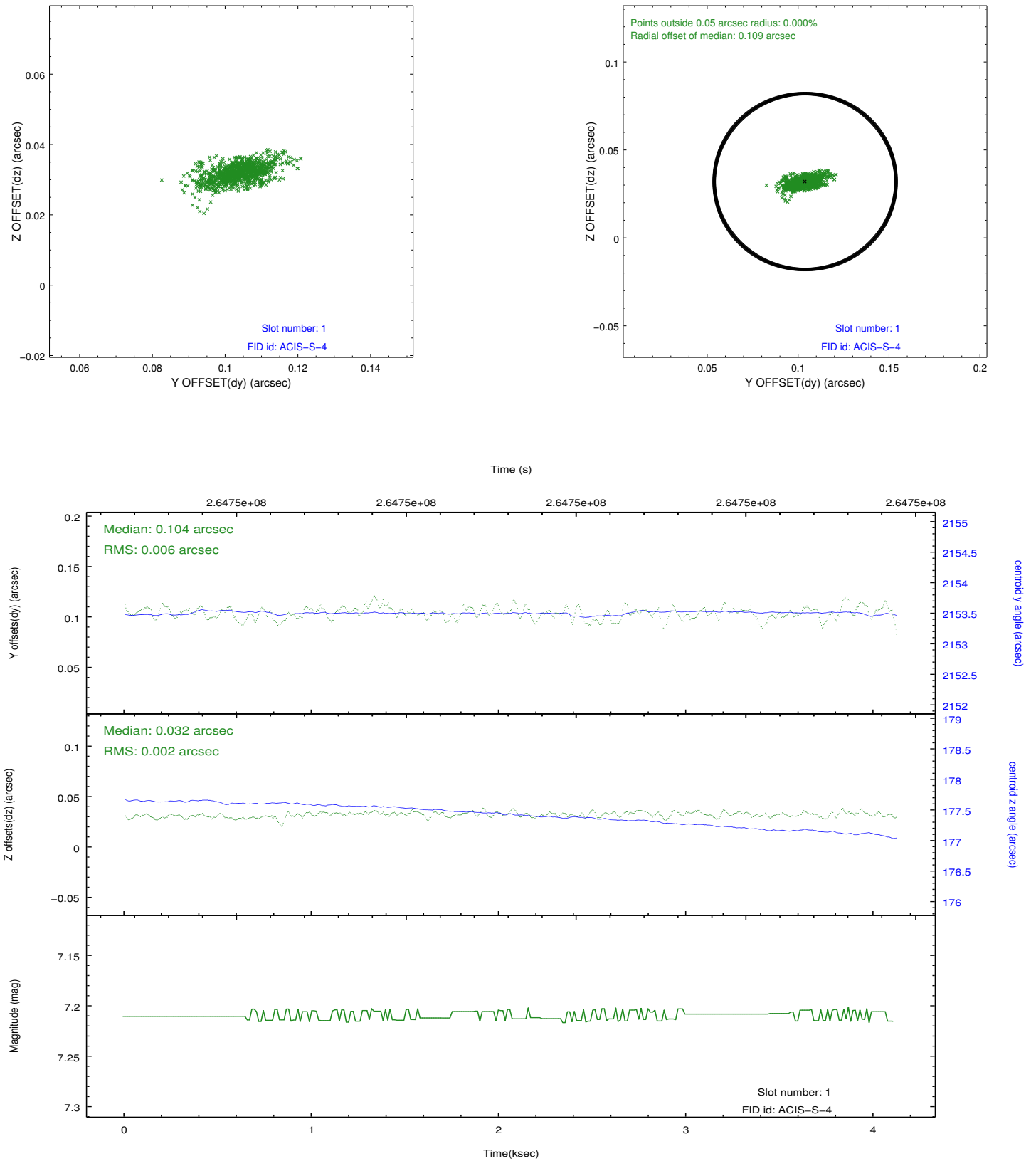


2.5 FID Slots

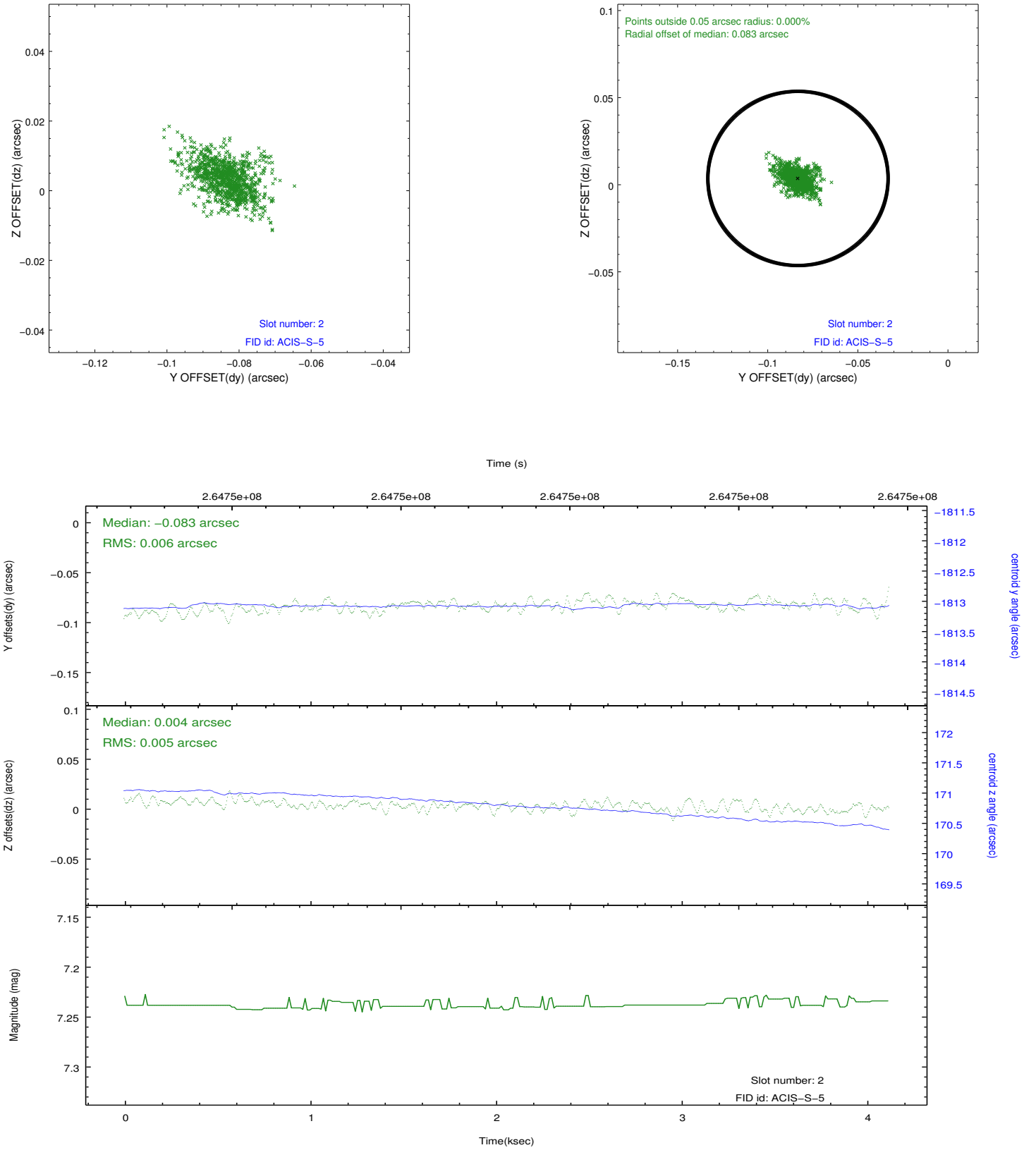
2.5.1 Slot 0



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) | 2012.04.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.10559998 |

A.2 Comments