

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2800 - L2 Version 4
Chandra X-Ray Center

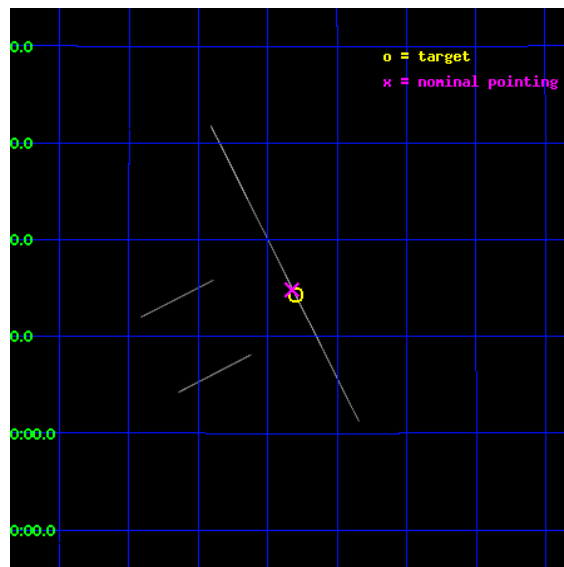
L2 Processing Date : Sep 29 2012

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1 Front

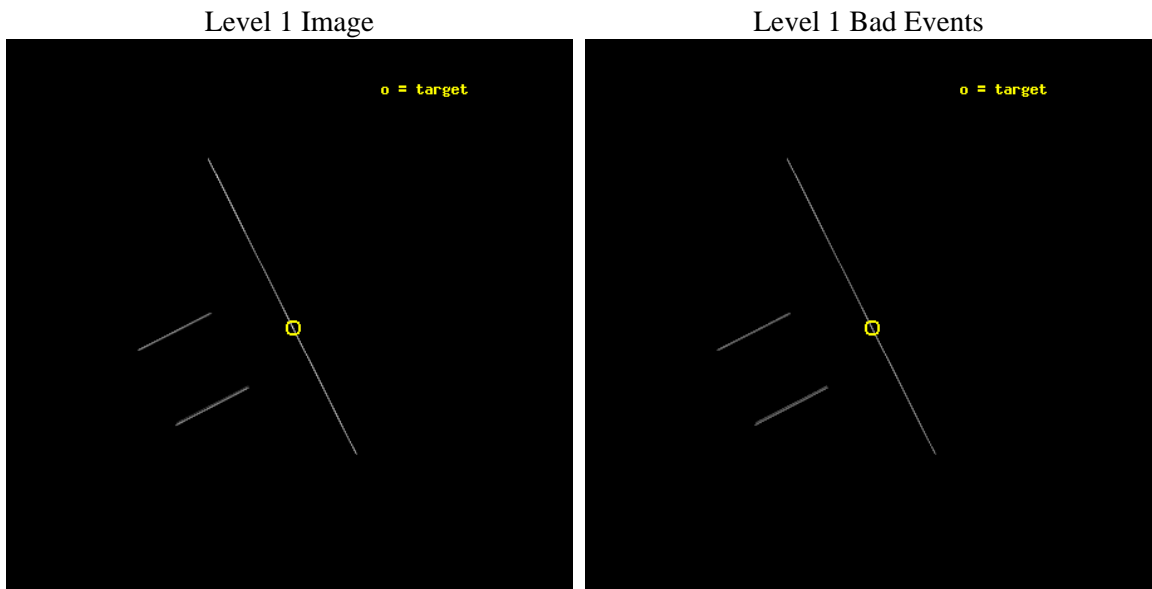
| | | |
|----------|---|---------------------------------------|
| seq_num | 500250 | Sequence number |
| obs_id | 2800 | Observation id |
| title | PSR 0656+14 AND ITS PUTATIVE PULSAR-WIND NEBULA | Proposal title |
| observer | Dr. Vyacheslav Zavlin | Principal investigator |
| object | PSR 0656+14 | Source name |
| ra_targ | 104.950417 | Observer's specified target RA [deg] |
| dec_targ | 14.239306 | Observer's specified target Dec [deg] |
| ra_nom | 104.95644890289 | Nominal RA [deg] |
| dec_nom | 14.247071983984 | Nominal Dec [deg] |
| roll_nom | 63.080289102676 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 25115.789736494 | Sum of GTIs [s] |
| livetime | 25017.681182836 | Livetime [s] |
| ontime2 | 25117.25 | Sum of GTIs [s] |
| ontime3 | 25117.25 | Sum of GTIs [s] |
| ontime5 | 25117.25 | Sum of GTIs [s] |
| ontime6 | 25117.25 | Sum of GTIs [s] |
| ontime7 | 25115.789736494 | Sum of GTIs [s] |
| ontime8 | 25117.25 | Sum of GTIs [s] |
| l2events | 350964 | Number of level 2 events |



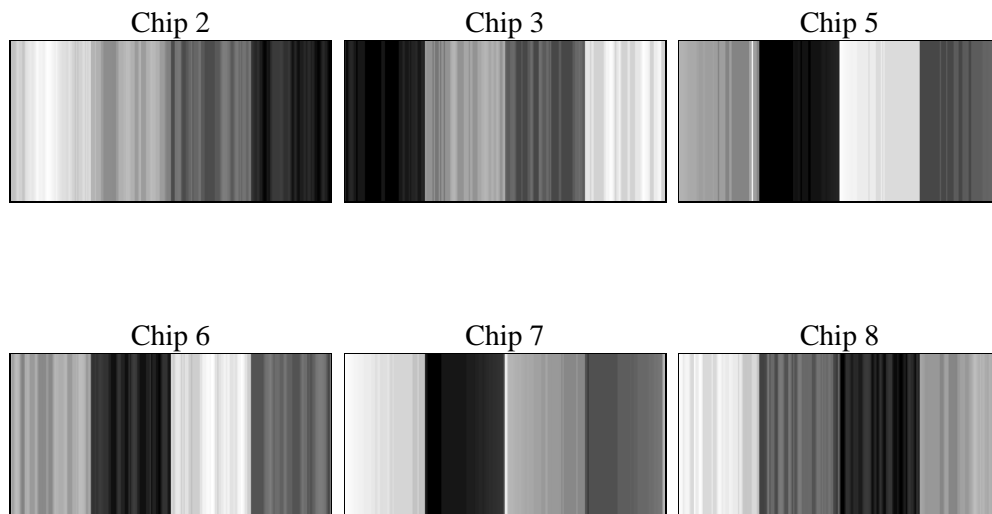
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 25000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 25115.789736494 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime2 | 25117.25 | Sum of GTIs [s] |
| date | 2012-09-29T02:45:46 | Date and time of file creation | ontime3 | 25117.25 | Sum of GTIs [s] |
| revision | 4 | Processing version of data | ontime5 | 25117.25 | Sum of GTIs [s] |
| | | | ontime6 | 25117.25 | Sum of GTIs [s] |
| | | | ontime7 | 25115.789736494 | Sum of GTIs [s] |
| | | | ontime8 | 25117.25 | Sum of GTIs [s] |
| | | | l1events | 520501 | Number of level 1 events |

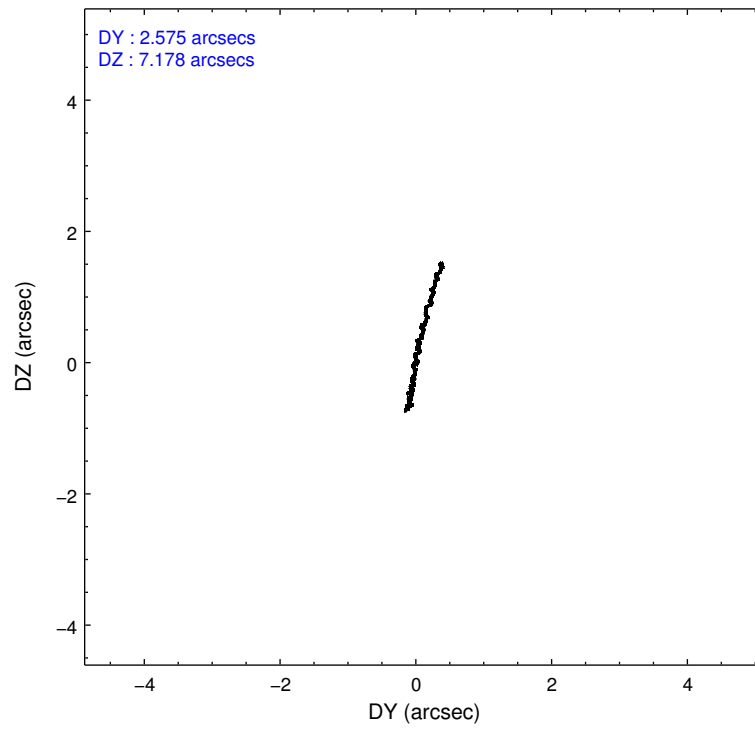
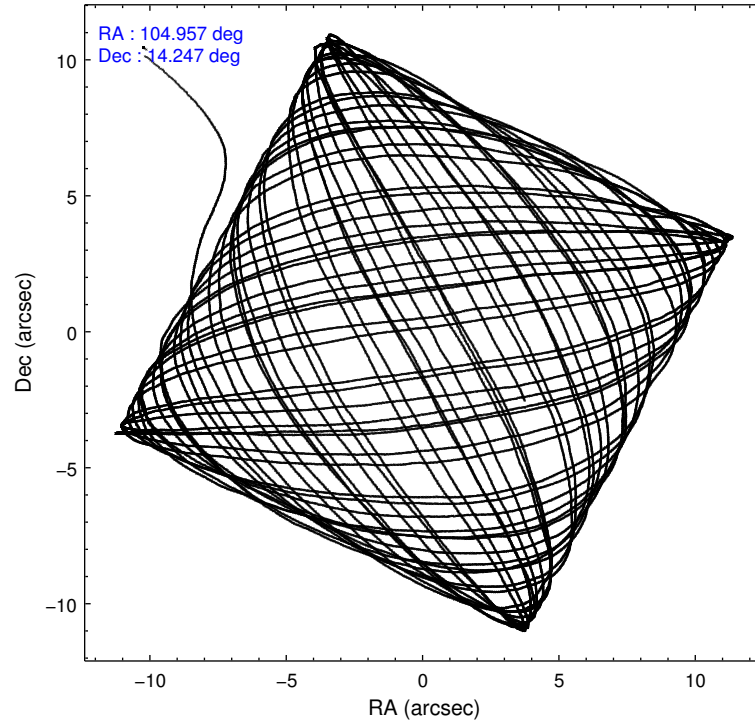
2.1.4 Events

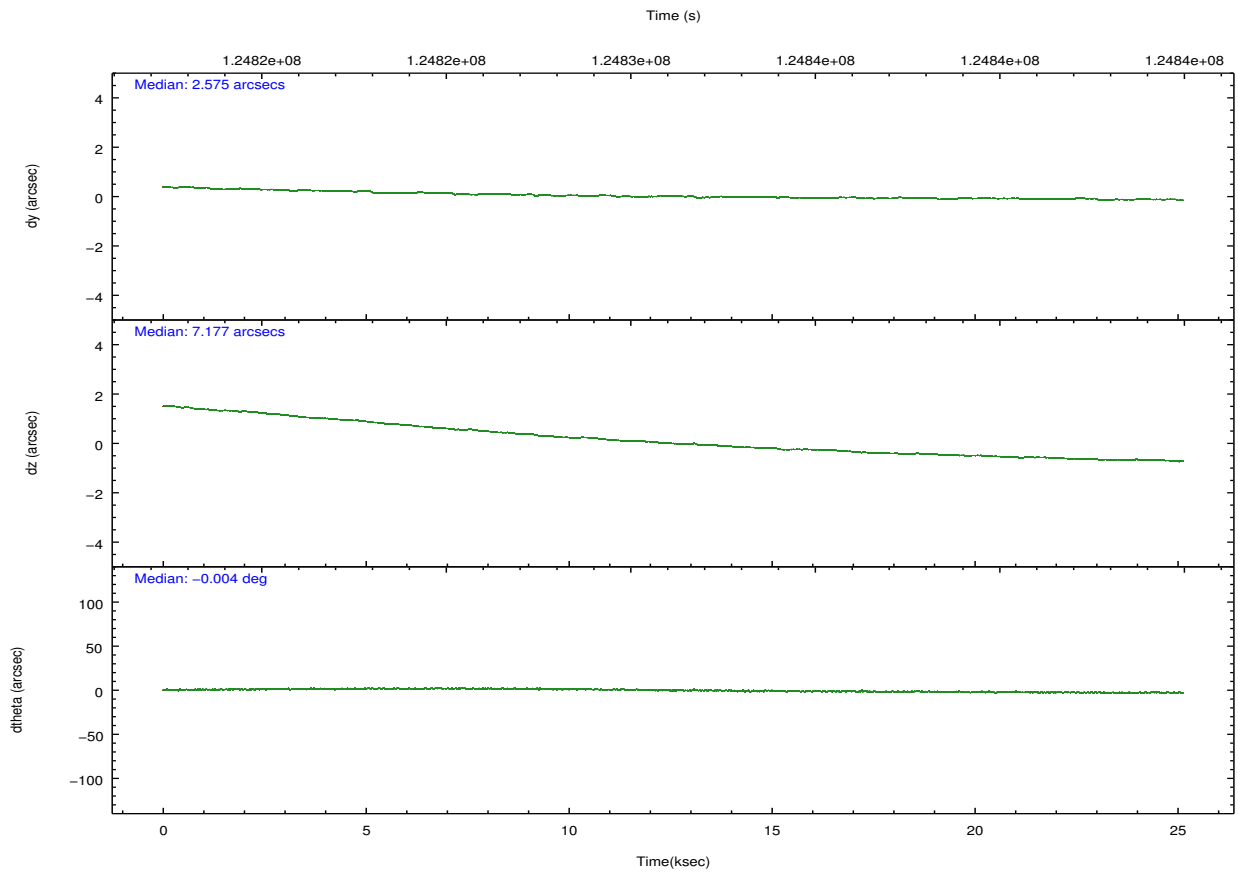
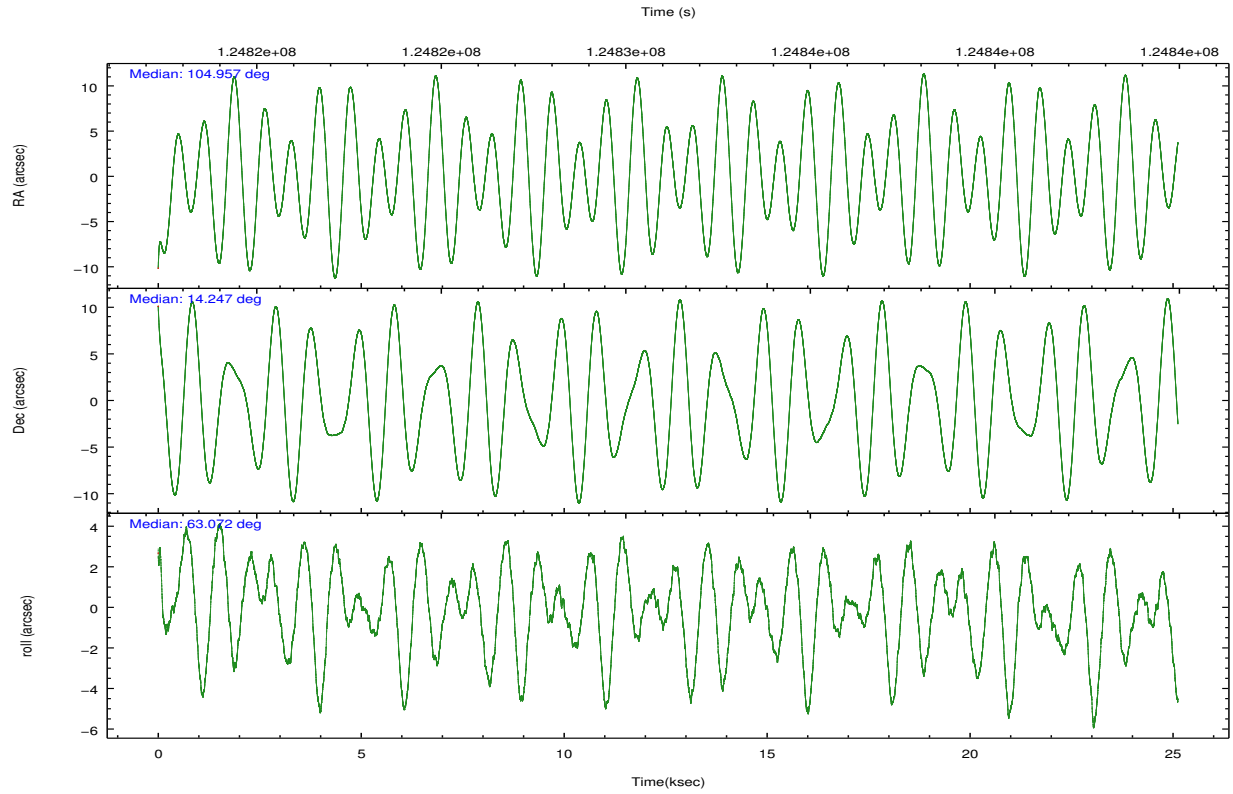
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|--------|-------|--------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 35327 | 38327 | 163504 | 38757 | 164633 | 79953 | grade 0 events | 4055 | 3868 | 34257 | 3874 | 40561 | 15076 |
| rejected events | 7450 | 7687 | 22199 | 8245 | 23405 | 12624 | | 11% | 10% | 20% | 9% | 24% | 18% |
| rejected % | 21% | 20% | 13% | 21% | 14% | 15% | grade 1 events | 128 | 126 | 257 | 130 | 375 | 236 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 11347 | 13015 | 40221 | 12907 | 32583 | 20981 |
| | | | | | | | | 32% | 33% | 24% | 33% | 19% | 26% |
| | | | | | | | grade 3 events | 3940 | 4686 | 3937 | 4216 | 11451 | 9340 |
| | | | | | | | | 11% | 12% | 2% | 10% | 6% | 11% |
| | | | | | | | grade 4 events | 4069 | 3939 | 3800 | 4029 | 11396 | 8715 |
| | | | | | | | | 11% | 10% | 2% | 10% | 6% | 10% |
| | | | | | | | grade 5 events | 5961 | 6222 | 15761 | 6698 | 18588 | 9413 |
| | | | | | | | | 16% | 16% | 9% | 17% | 11% | 11% |
| | | | | | | | grade 6 events | 5827 | 6471 | 65271 | 6903 | 49679 | 16192 |
| | | | | | | | | 16% | 16% | 39% | 17% | 30% | 20% |
| | | | | | | | grade 7 events | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |

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 | CC33_FAINT | CC33_FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 104.958312 | 104.9564489028928 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 14.219858 | 14.24707198398412 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 62.923199 | 63.08028910267599 | [s] Primary exposure time | 0.000000 | 0 |
| [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) | 124818704.184000 | 124817415.55518 | | | |
| Observation start date | 2001-12-15T15:50:40 | 2001-12-15T15:30:15 | | | |
| [s] Observation end time (MET) | 124843704.184000 | 124843838.51874 | | | |
| Observation end date | 2001-12-15T22:47:20 | 2001-12-15T22:50:38 | | | |
| Read mode | CONTINUOUS | CONTINUOUS | | | |

2.3 Aspect



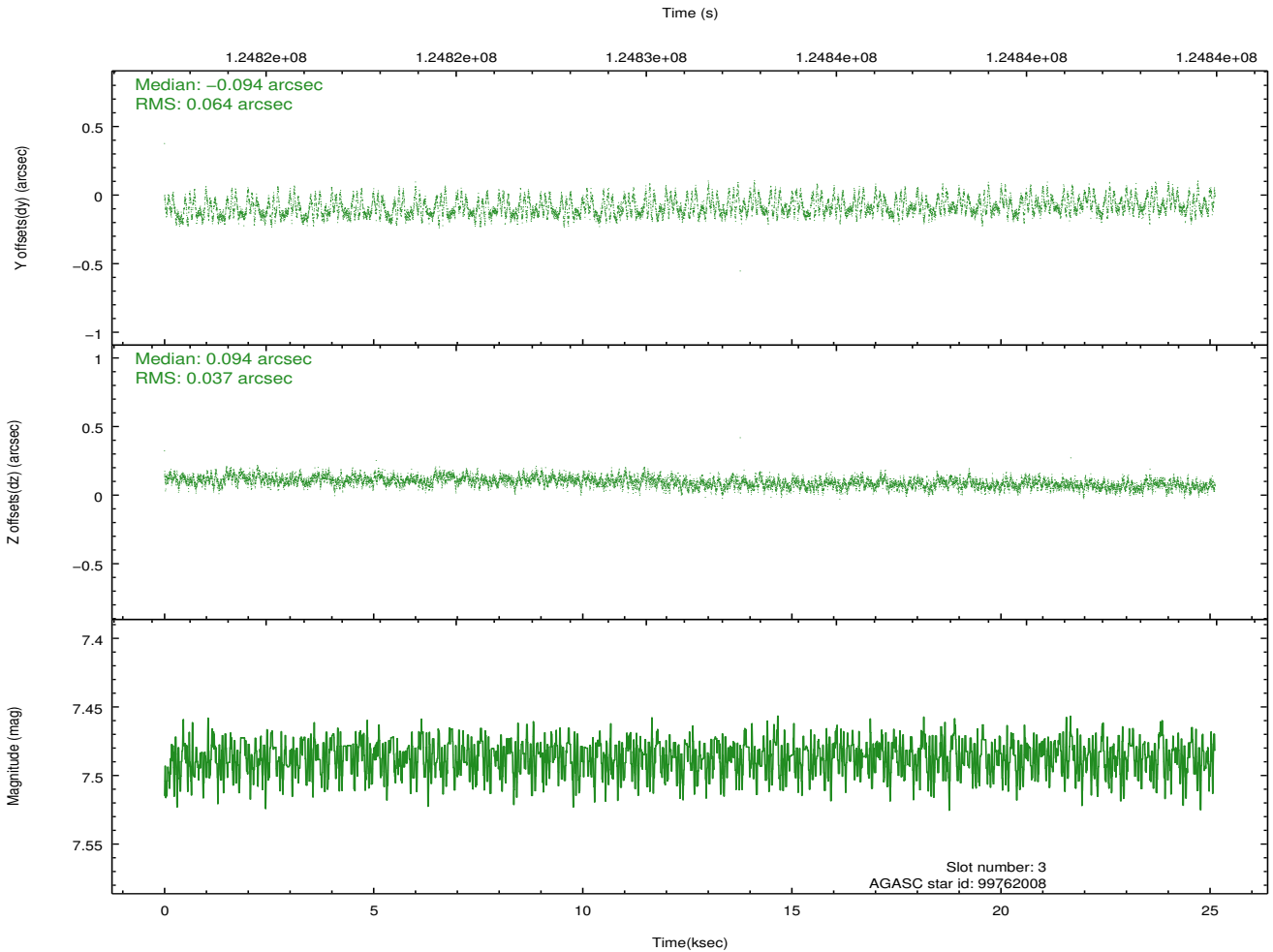
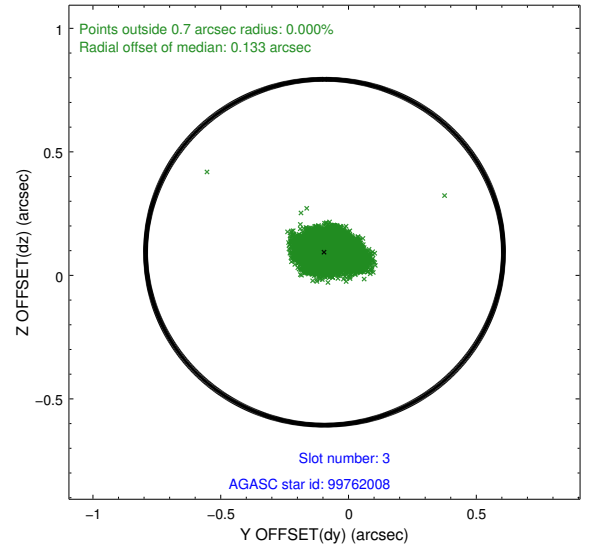
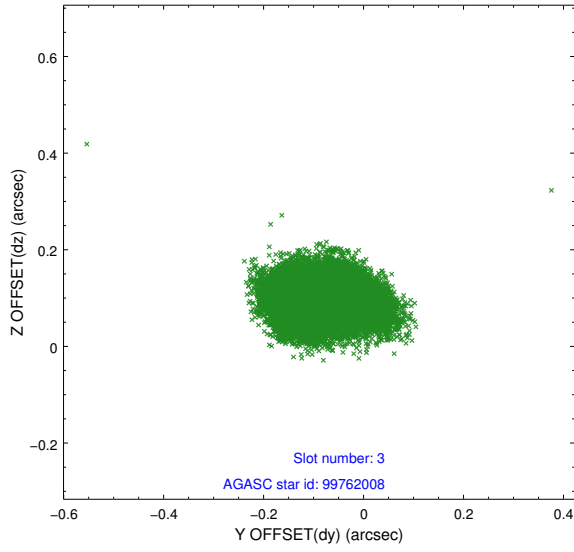


Slot Statistics

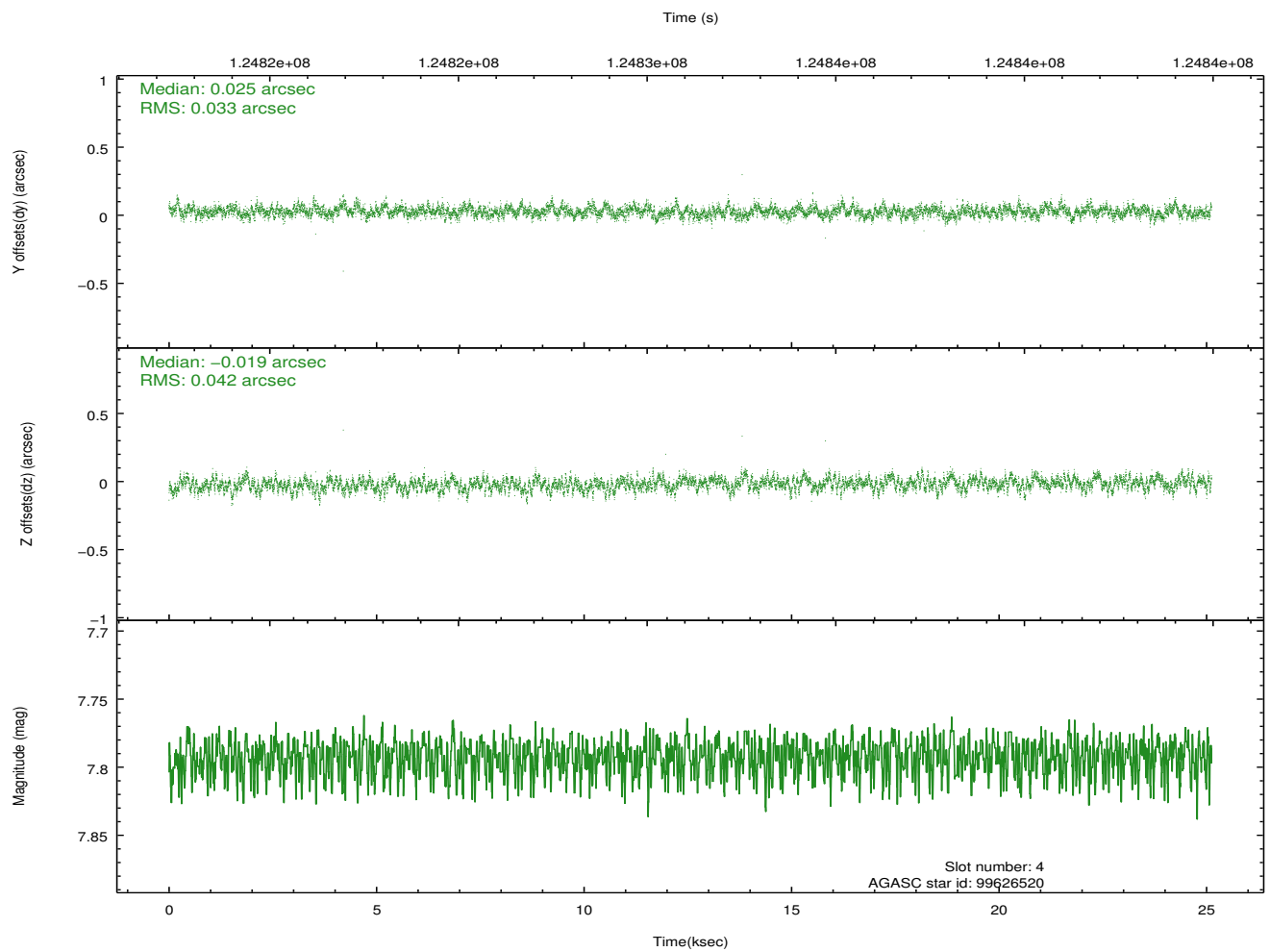
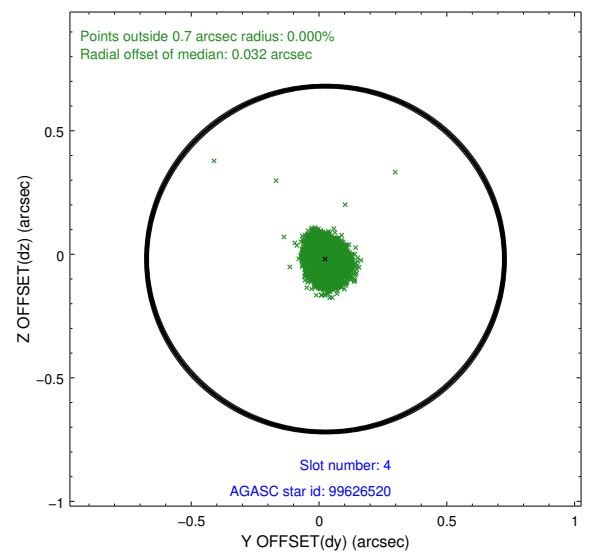
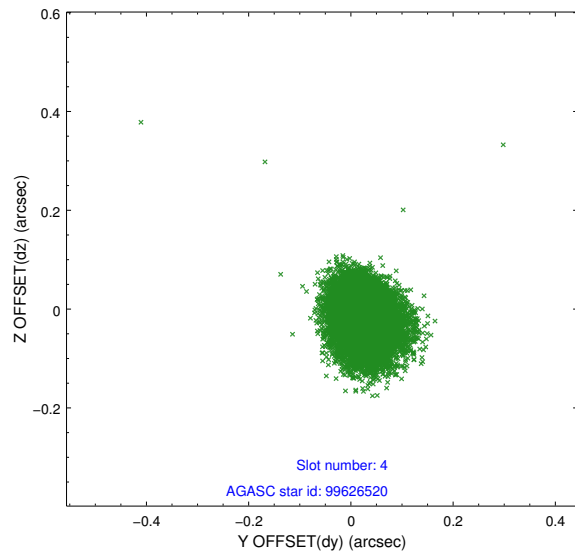
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 6128 | -0.021 | -0.002 | 0.018 | 0.024 | 0.000000 | 0.000000 | -755.27 | -1728.51 |
| 1 | FID | ACIS-S-4 | 7.20 | 6127 | -0.030 | 0.011 | 0.020 | 0.032 | 0.000000 | 0.000000 | 2157.94 | 179.87 |
| 2 | FID | ACIS-S-5 | 7.24 | 6128 | 0.023 | -0.001 | 0.010 | 0.016 | 0.000000 | 0.000000 | -1807.92 | 173.65 |
| 3 | GUIDE | 99762008 | 7.49 | 12255 | -0.094 | 0.094 | 0.078 | 0.127 | 105.809270 | 14.336108 | 1729.08 | -2449.02 |
| 4 | GUIDE | 99626520 | 7.79 | 12255 | 0.025 | -0.019 | 0.056 | 0.092 | 104.527461 | 14.228695 | -654.56 | 1354.02 |
| 5 | GUIDE | 99634584 | 8.43 | 12254 | 0.115 | -0.073 | 0.061 | 0.103 | 104.341882 | 13.801780 | -2318.44 | 1235.36 |
| 6 | GUIDE | 99756168 | 8.75 | 12250 | -0.133 | 0.086 | 0.091 | 0.138 | 105.592210 | 14.661738 | 2424.19 | -1239.32 |
| 7 | GUIDE | 99629096 | 9.14 | 12250 | 0.079 | -0.089 | 0.095 | 0.151 | 104.163989 | 14.029616 | -1868.25 | 2160.72 |

2.4 Star Slots

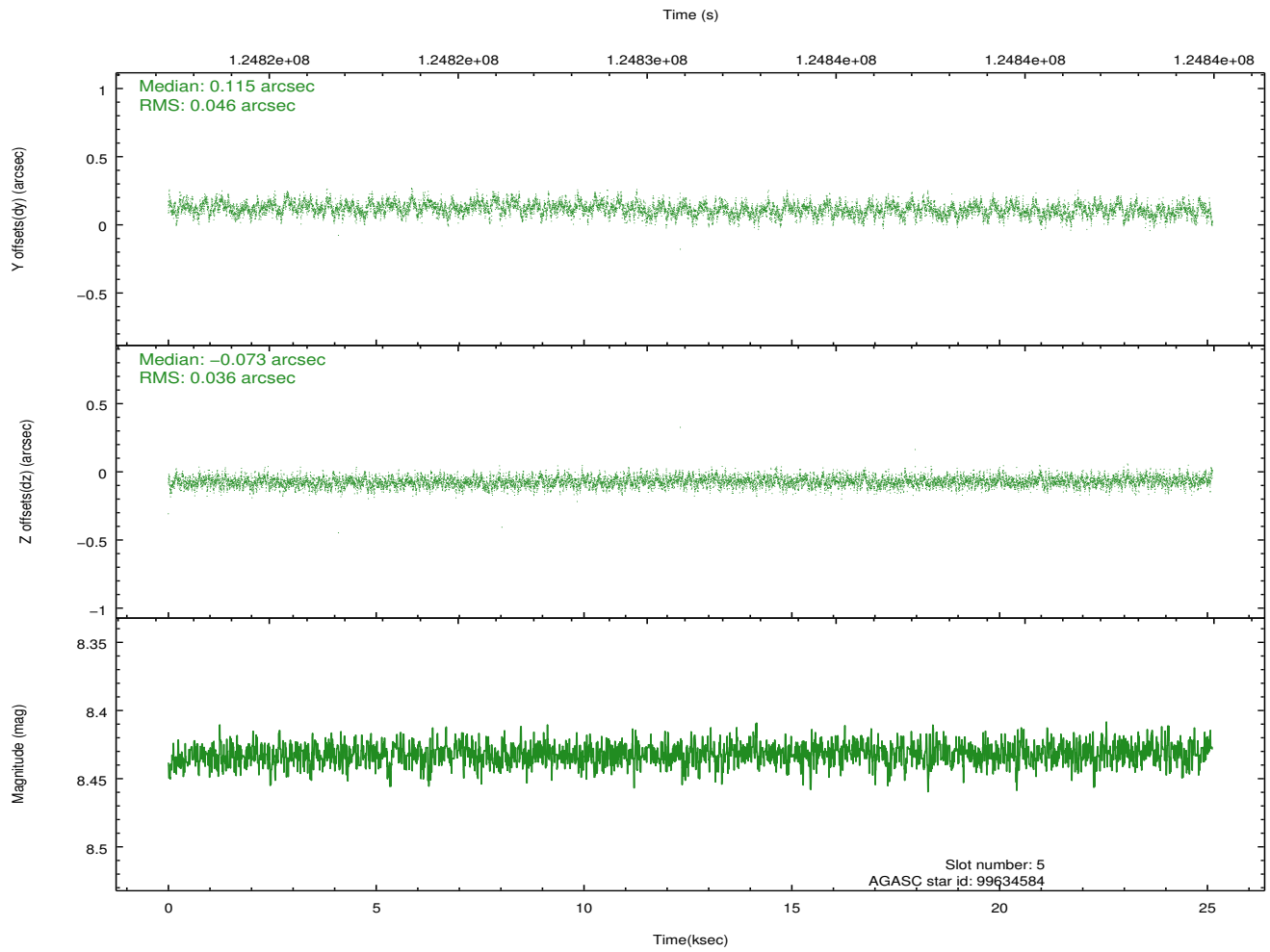
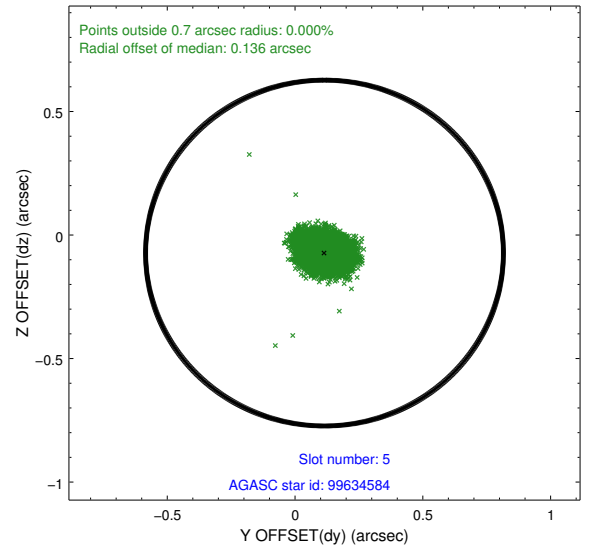
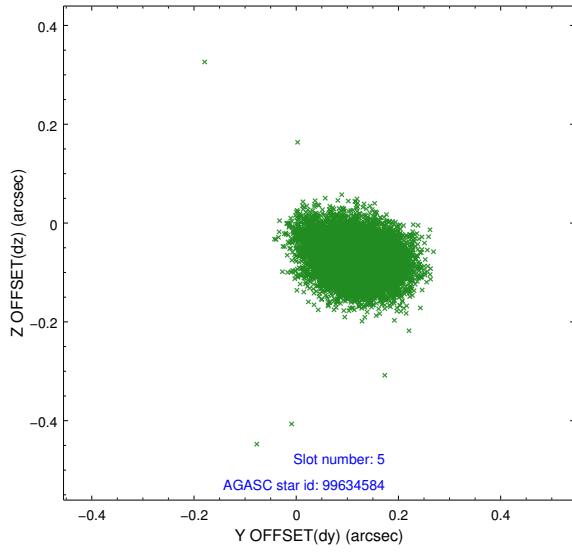
2.4.1 Slot 3



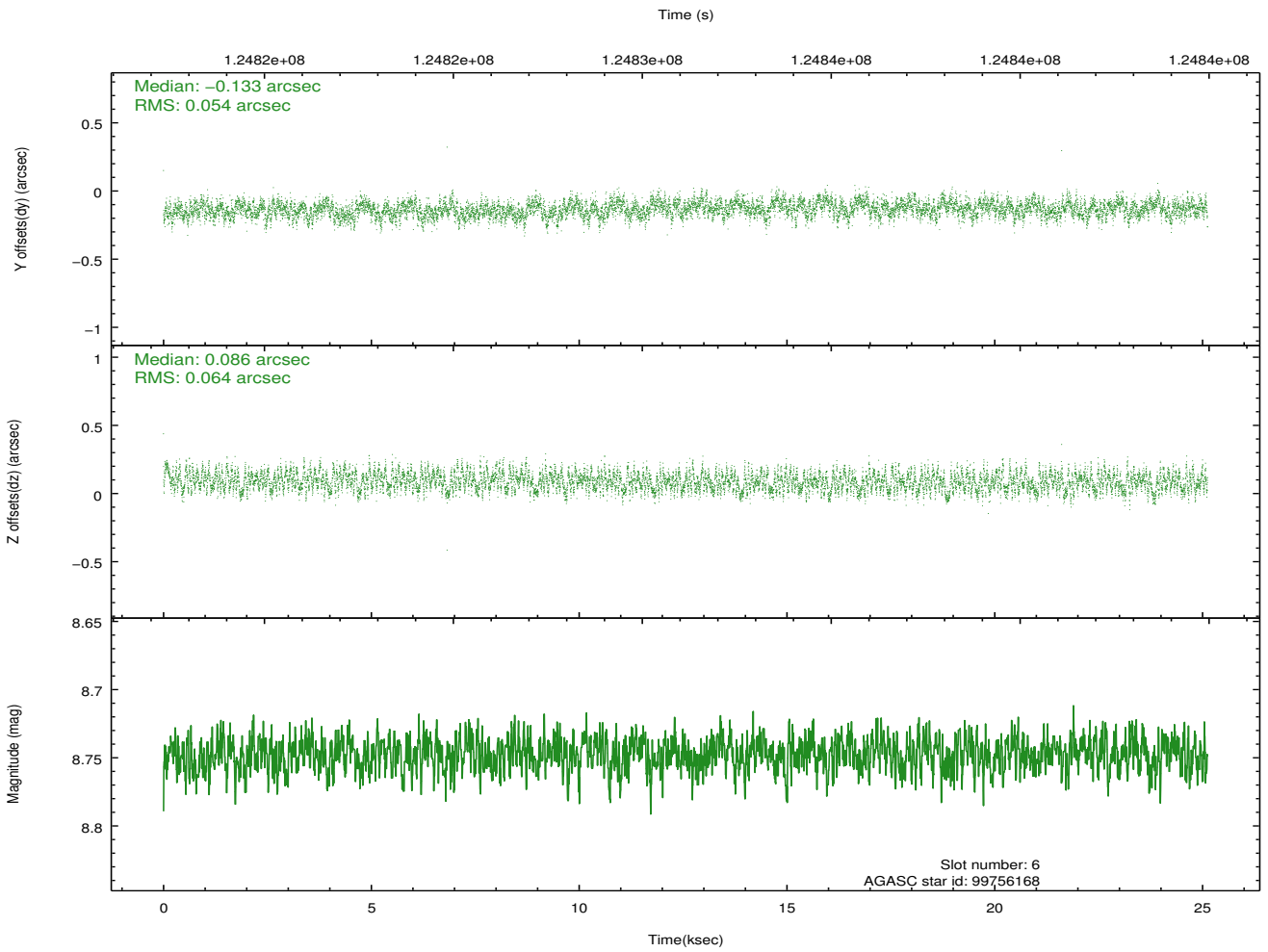
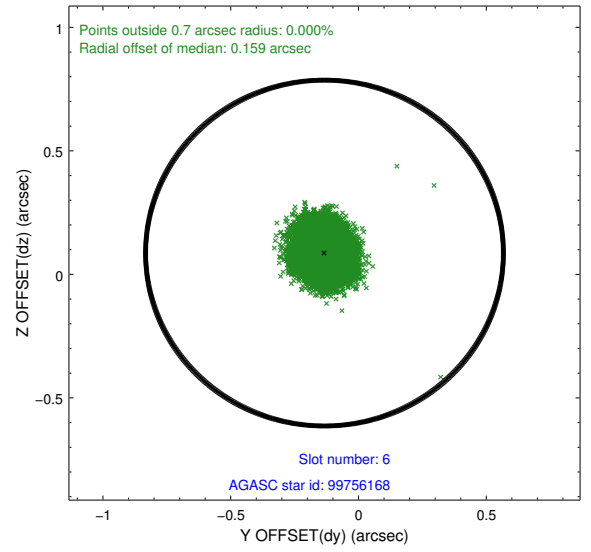
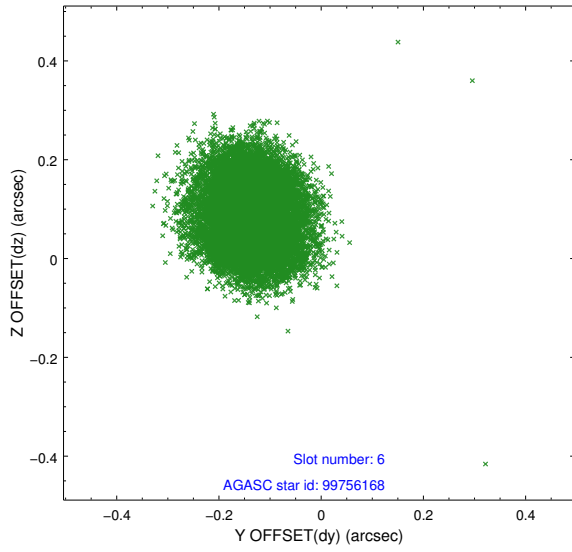
2.4.2 Slot 4



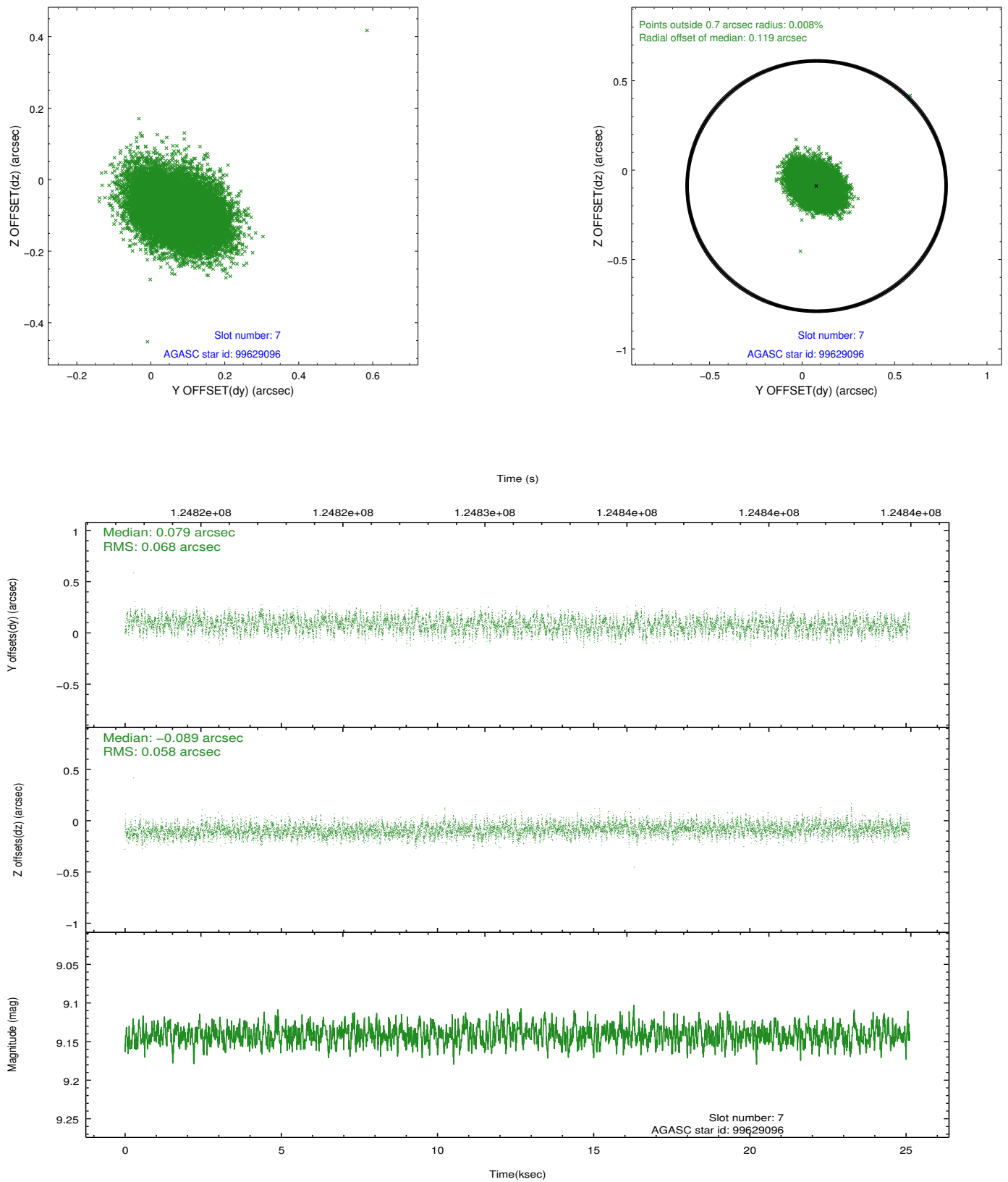
2.4.3 Slot 5



2.4.4 Slot 6

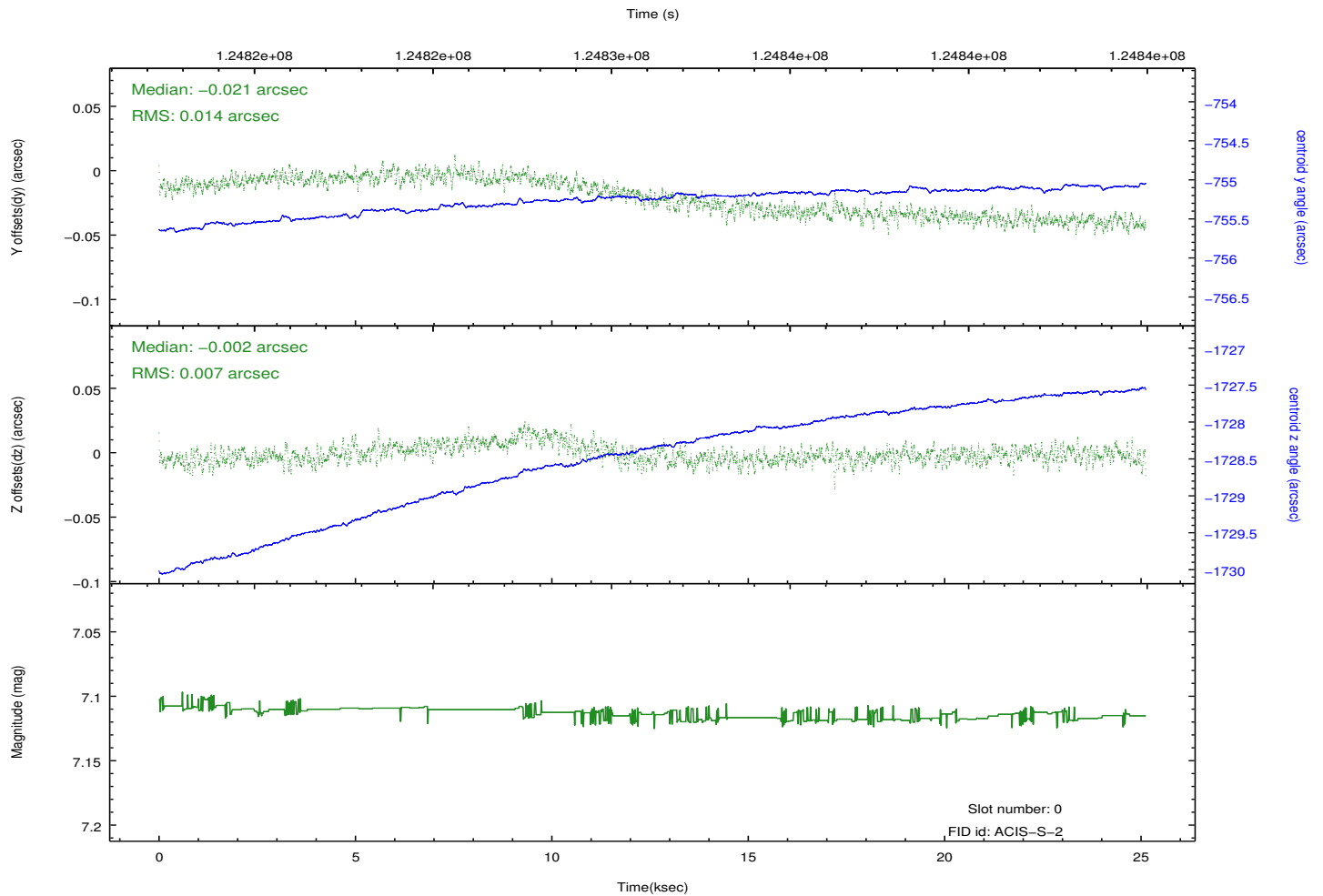
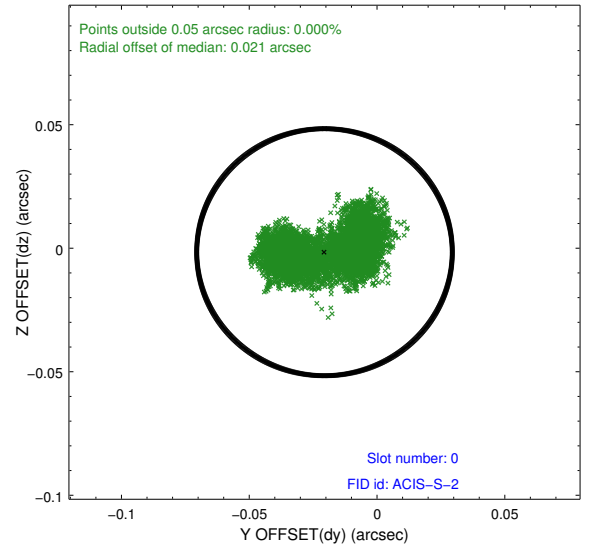
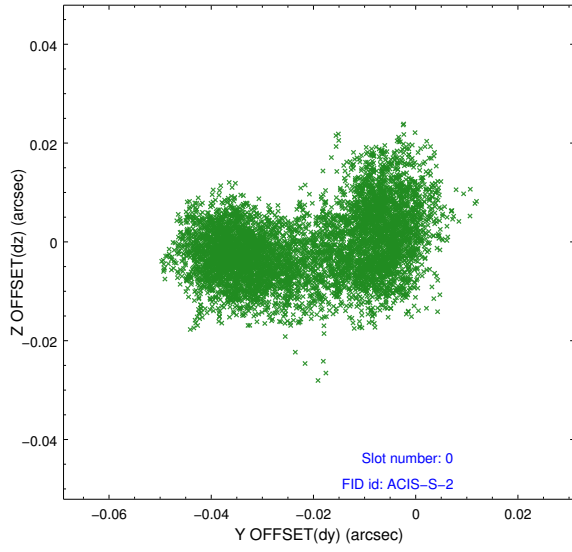


2.4.5 Slot 7

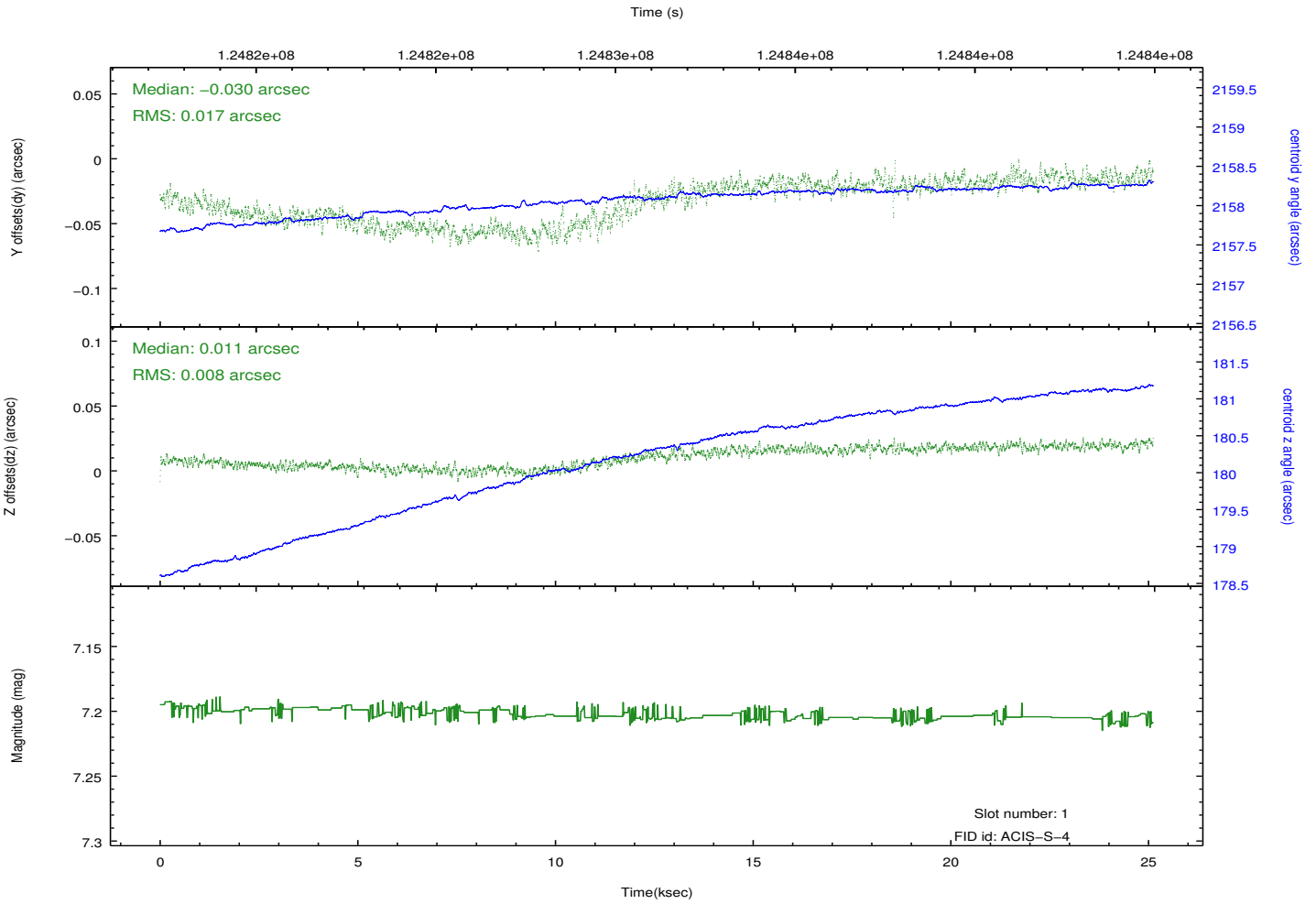
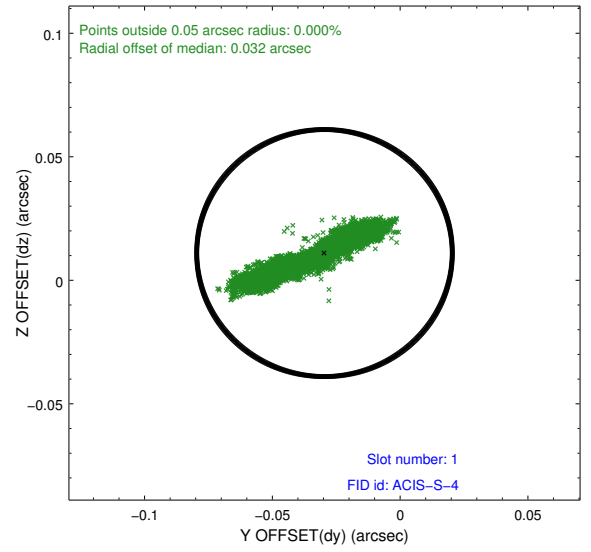
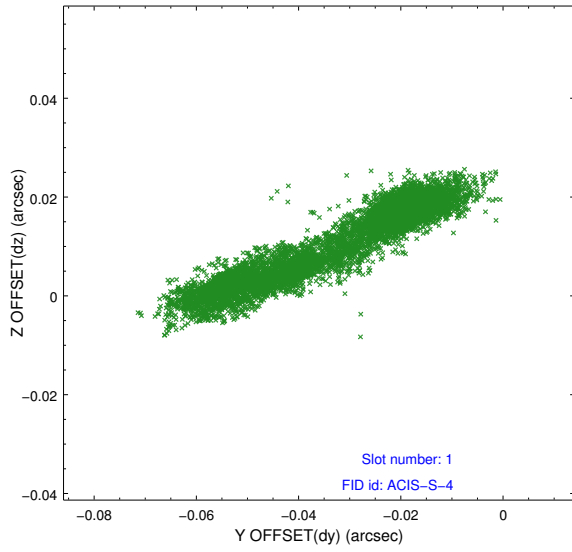


2.5 FID Slots

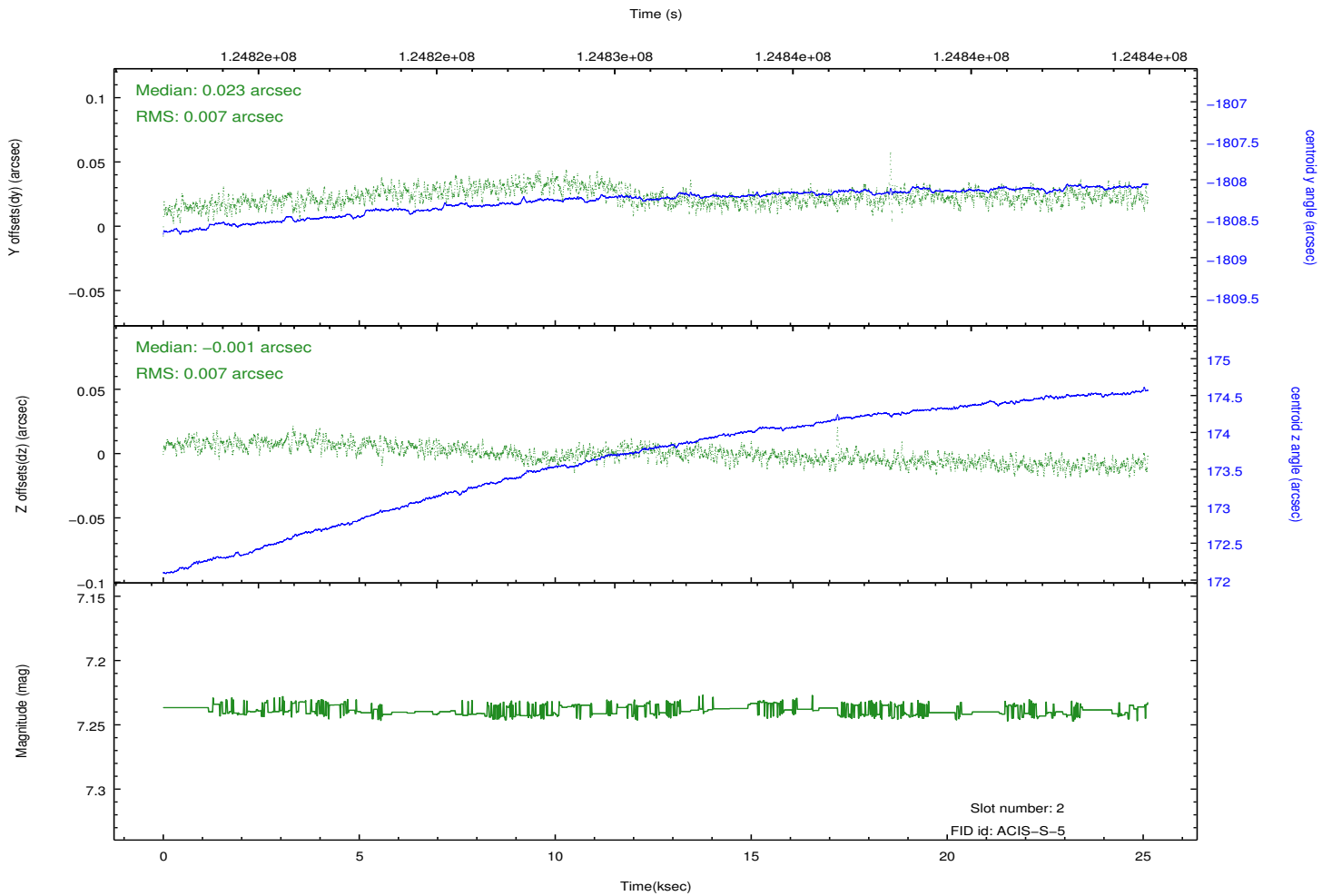
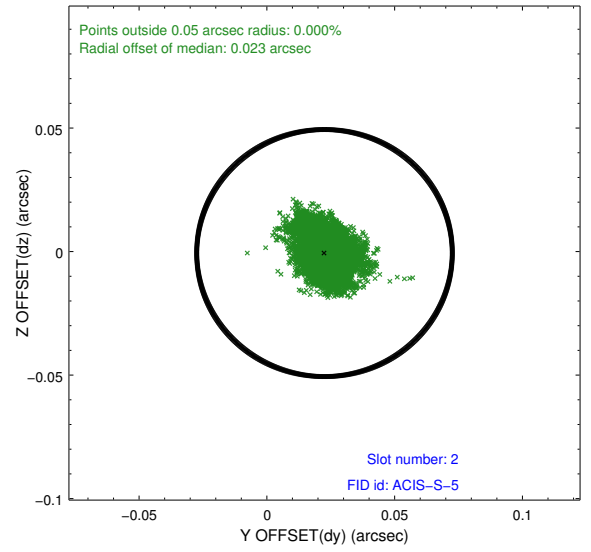
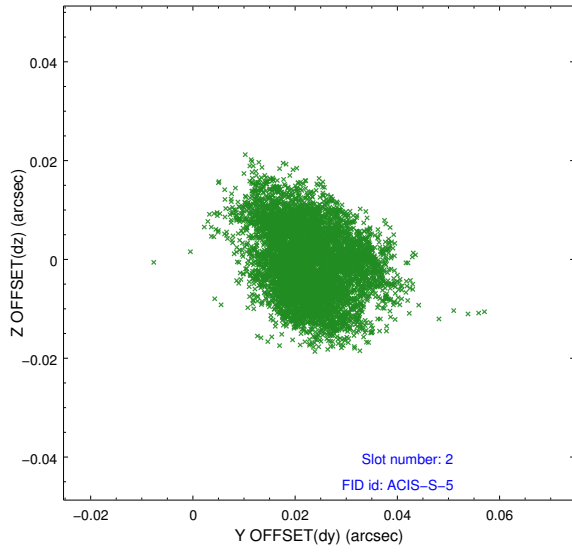
2.5.1 Slot 0



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) | 2012.10.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 25.119 |

A.2 Comments