

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3499 - L2 Version 3
Chandra X-Ray Center

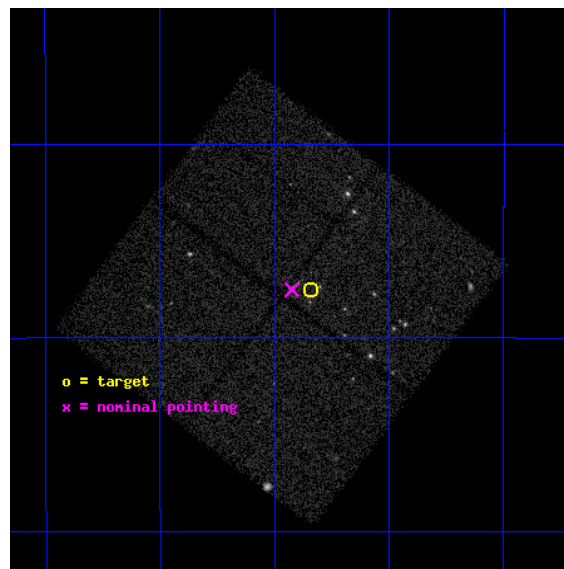
L2 Processing Date : Oct 31 2012

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| A | Summary | 17 |
| A.1 | Status | 17 |
| A.2 | Comments | 17 |

1 Front

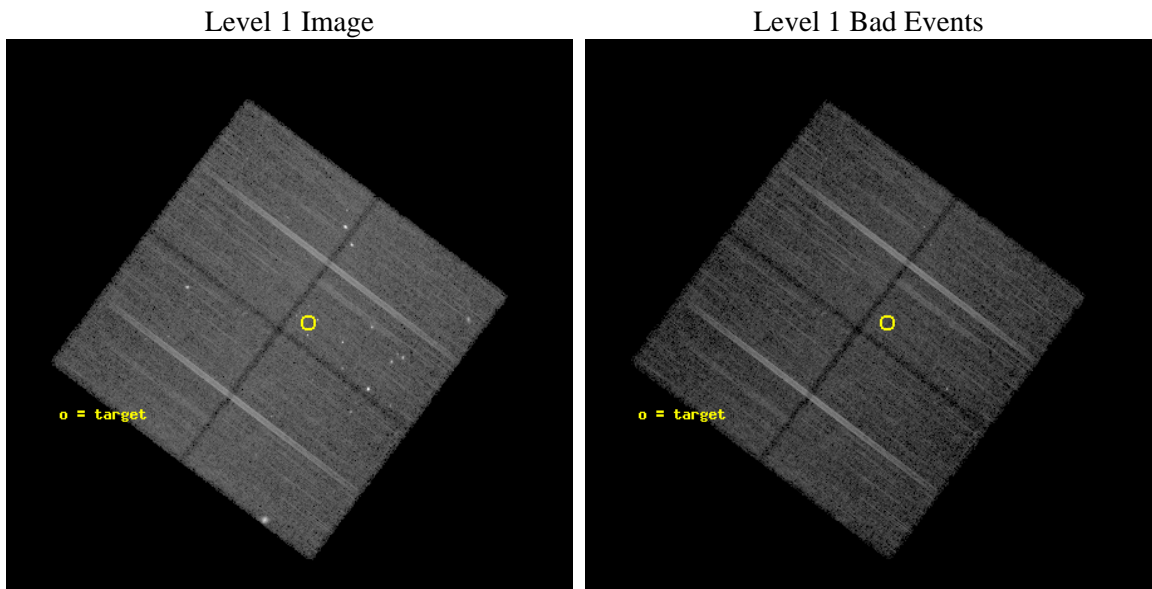
| | | |
|----------|--|---|
| seq_num | 200194 | Sequence number |
| obs_id | 3499 | Observation id |
| title | OBSERVATION OF THE CORE OF THE RCRA DARK CLOUD | Proposal title |
| observer | Professor Gordon Garmire | Principal investigator |
| object | RCRADARKCLOUD | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 285.460833 | Observer's specified target RA [deg] |
| dec_targ | -36.958333 | Observer's specified target Dec [deg] |
| ra_nom | 285.48107232796 | Nominal RA [deg] |
| dec_nom | -36.958892647224 | Nominal Dec [deg] |
| roll_nom | 36.974668219737 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 38126.736035675 | Sum of GTIs [s] |
| livetime | 37628.582160874 | Livetime [s] |
| ontime0 | 38126.735985756 | Sum of GTIs [s] |
| ontime1 | 38139.299926639 | Sum of GTIs [s] |
| ontime2 | 38126.735975891 | Sum of GTIs [s] |
| ontime3 | 38126.736035675 | Sum of GTIs [s] |
| l2events | 83161 | Number of level 2 events |



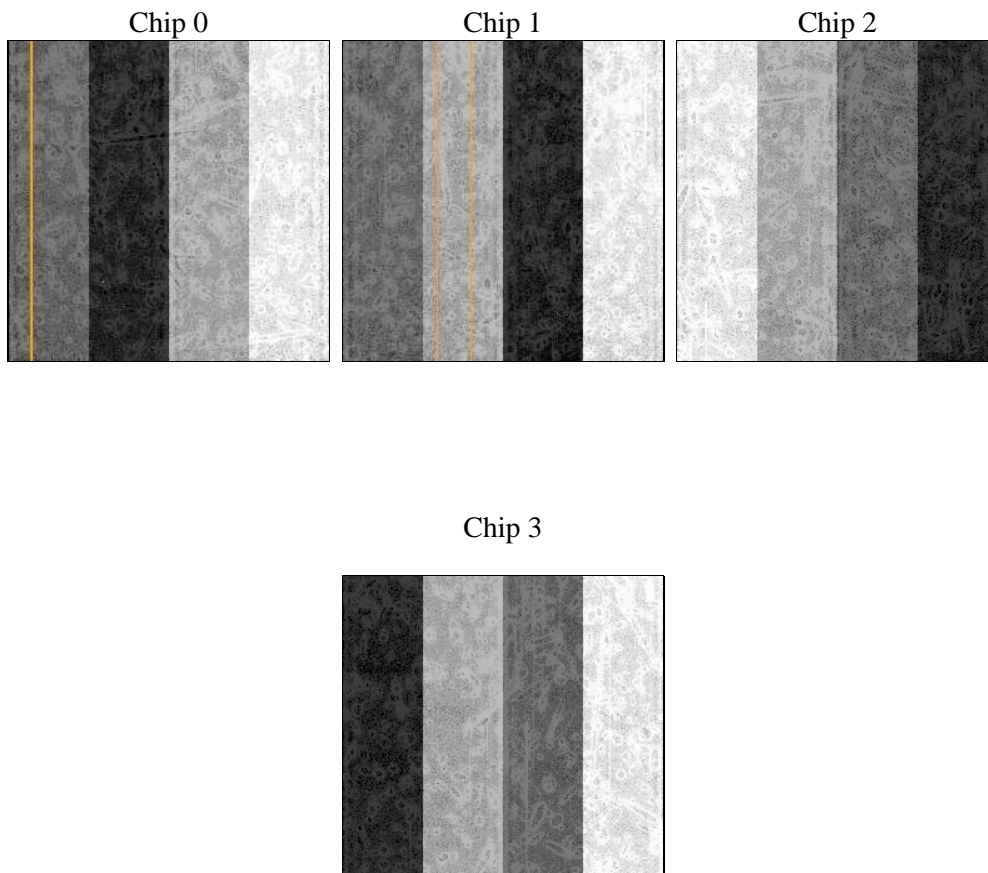
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 38000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 38126.736035675 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 38126.735985756 | Sum of GTIs [s] |
| date | 2012-10-31T04:09:34 | Date and time of file creation | ontime1 | 38139.299926639 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 38126.735975891 | Sum of GTIs [s] |
| | | | ontime3 | 38126.736035675 | Sum of GTIs [s] |
| | | | l1events | 733089 | Number of level 1 events |

2.1.4 Events

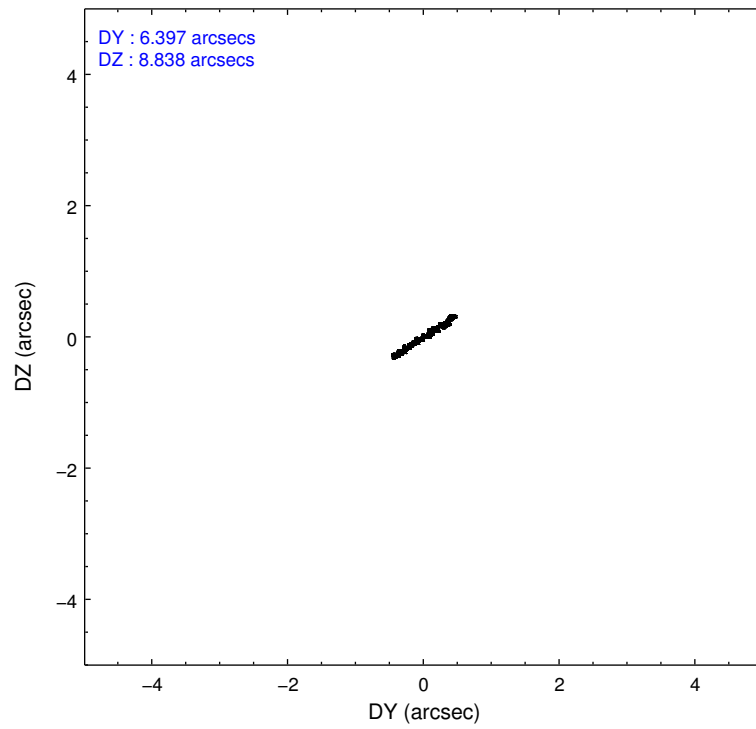
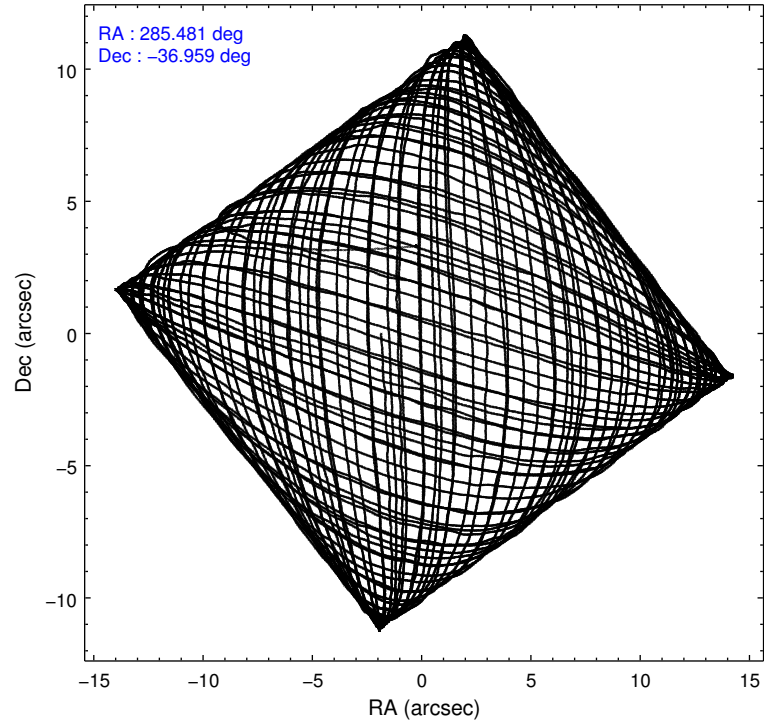
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|--------|--------|--------|--------|
| level 1 events | 166815 | 171674 | 196687 | 197913 |
| rejected events | 148807 | 149209 | 174281 | 164675 |
| rejected % | 89% | 86% | 88% | 83% |

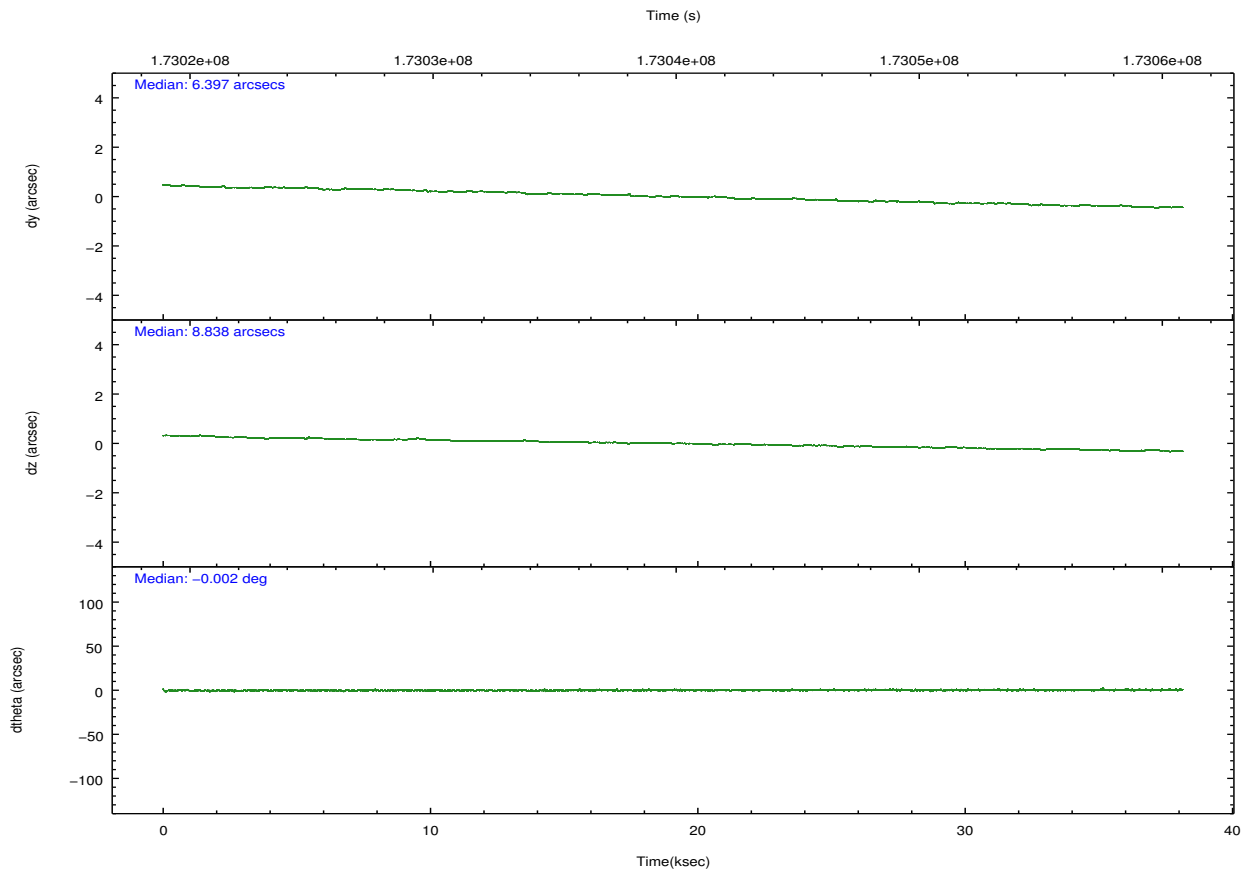
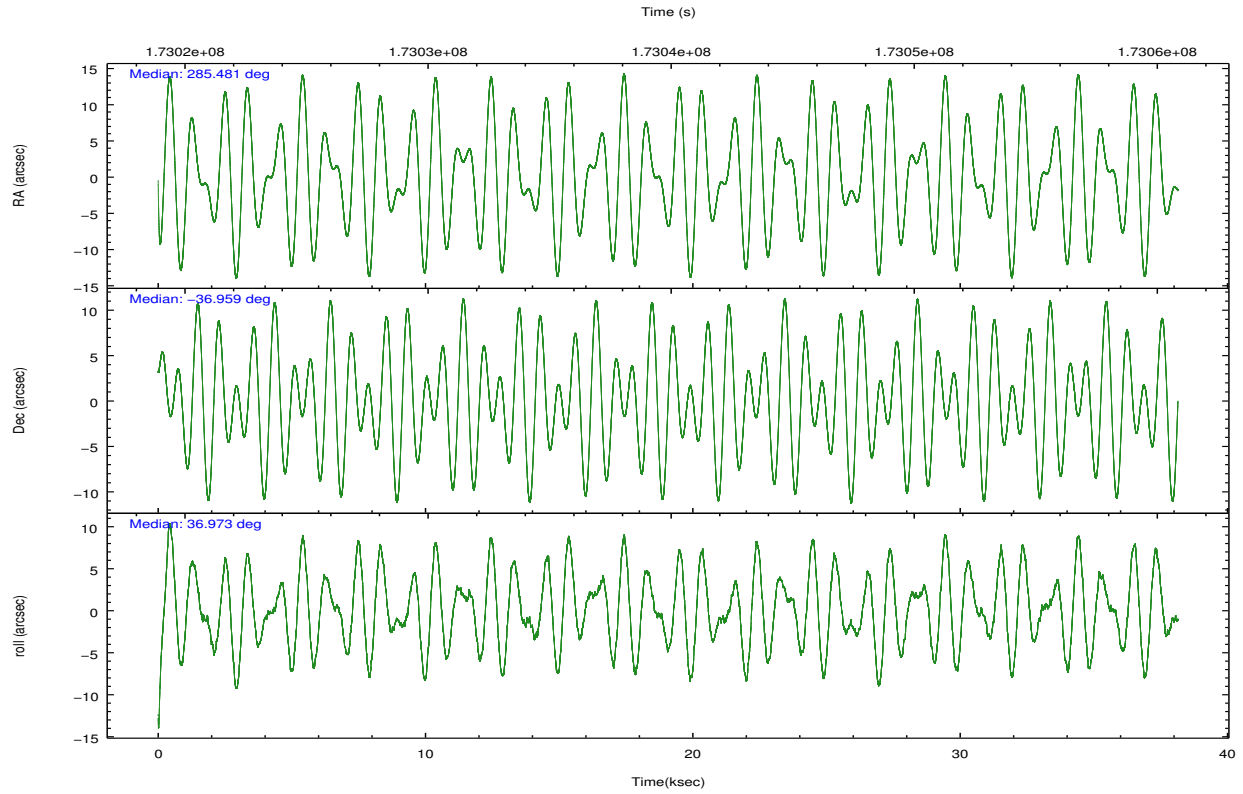
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|--------|--------|--------|--------|
| grade 0 events | 7090 | 10129 | 11068 | 20028 |
| | 4% | 5% | 5% | 10% |
| grade 1 events | 83 | 95 | 181 | 319 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 3916 | 4215 | 4434 | 5233 |
| | 2% | 2% | 2% | 2% |
| grade 3 events | 2210 | 2389 | 2084 | 2565 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 1954 | 2337 | 2107 | 2429 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 5585 | 5951 | 5198 | 6322 |
| | 3% | 3% | 2% | 3% |
| grade 6 events | 3366 | 3954 | 3220 | 3554 |
| | 2% | 2% | 1% | 1% |
| grade 7 events | 142611 | 142604 | 168395 | 157463 |
| | 85% | 83% | 85% | 79% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-0123 | ACIS-0123 | 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 | 285.467780 | 285.4810723279641 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -36.984147 | -36.95889264722394 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 36.757986 | 36.9746682197367 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 173020945.184000 | 173019490.36049 | | | |
| Observation start date | 2003-06-26T13:21:21 | 2003-06-26T12:58:10 | | | |
| [s] Observation end time (MET) | 173058945.184000 | 173060168.51222 | | | |
| Observation end date | 2003-06-26T23:54:41 | 2003-06-27T00:16:08 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect





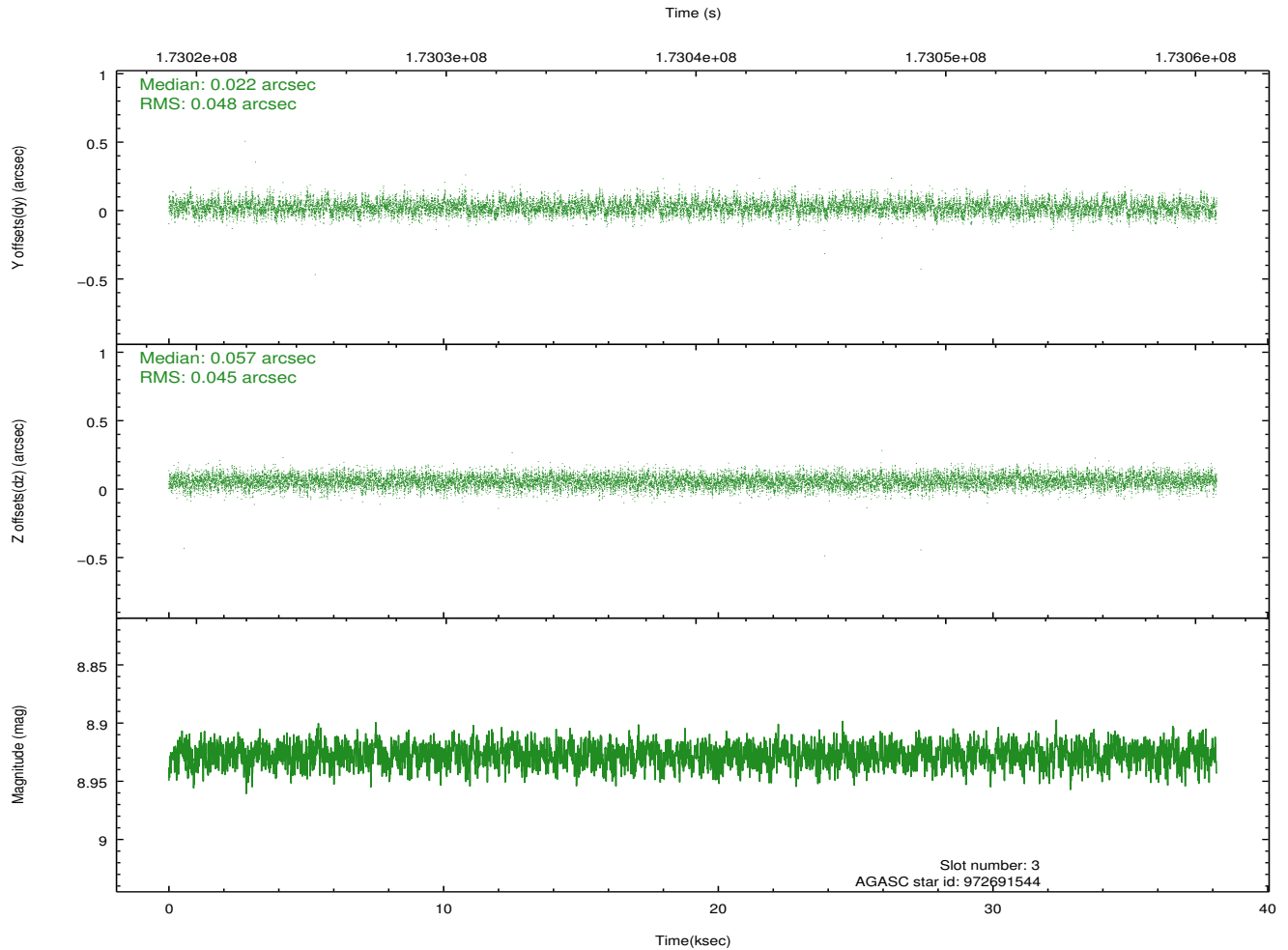
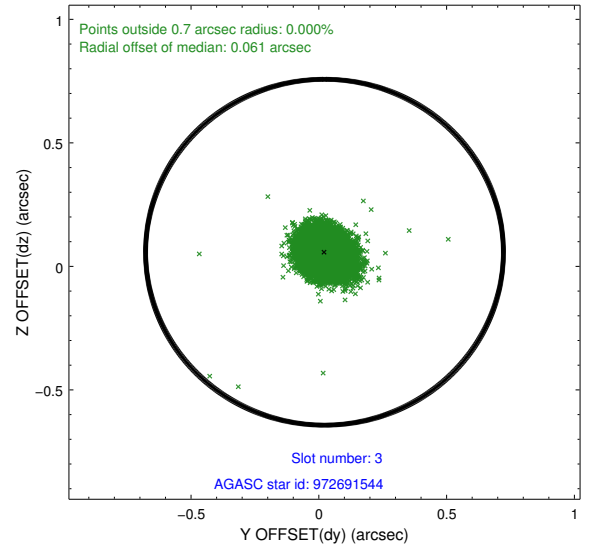
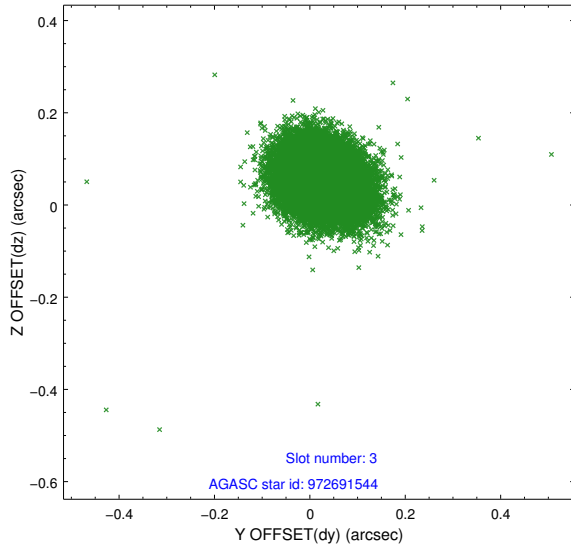
Slot Statistics

| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|---------|
| 0 | FID | ACIS-I-1 | 7.24 | 9304 | -0.005 | 0.051 | 0.011 | 0.027 | 0.000000 | 0.000000 | 933.30 | -832.22 |
| 1 | FID | ACIS-I-5 | 7.23 | 9302 | -0.127 | 0.034 | 0.011 | 0.026 | 0.000000 | 0.000000 | -1814.93 | 1065.24 |
| 2 | FID | ACIS-I-6 | 7.26 | 9303 | 0.040 | -0.013 | 0.008 | 0.014 | 0.000000 | 0.000000 | 398.85 | 1709.73 |
| 3 | GUIDE | 972691544 | 8.93 | 18602 | 0.022 | 0.057 | 0.069 | 0.112 | 284.930895 | -36.788005 | -820.10 | 1488.61 |
| 4 | GUIDE | 972693120 | 7.62 | 18609 | -0.087 | -0.205 | 0.065 | 0.103 | 285.412210 | -36.890704 | 73.14 | 365.22 |
| 5 | GUIDE | 972698608 | 9.27 | 18532 | -0.003 | -0.010 | 0.074 | 0.120 | 285.647031 | -36.601212 | 1239.94 | 794.20 |
| 6 | GUIDE | 972816680 | 9.14 | 18604 | 0.016 | 0.125 | 0.083 | 0.138 | 286.054324 | -36.904693 | 1521.11 | -785.13 |
| 7 | GUIDE | 972689192 | 8.91 | 18596 | 0.051 | 0.031 | 0.074 | 0.120 | 284.589186 | -37.133486 | -2348.63 | 1069.04 |

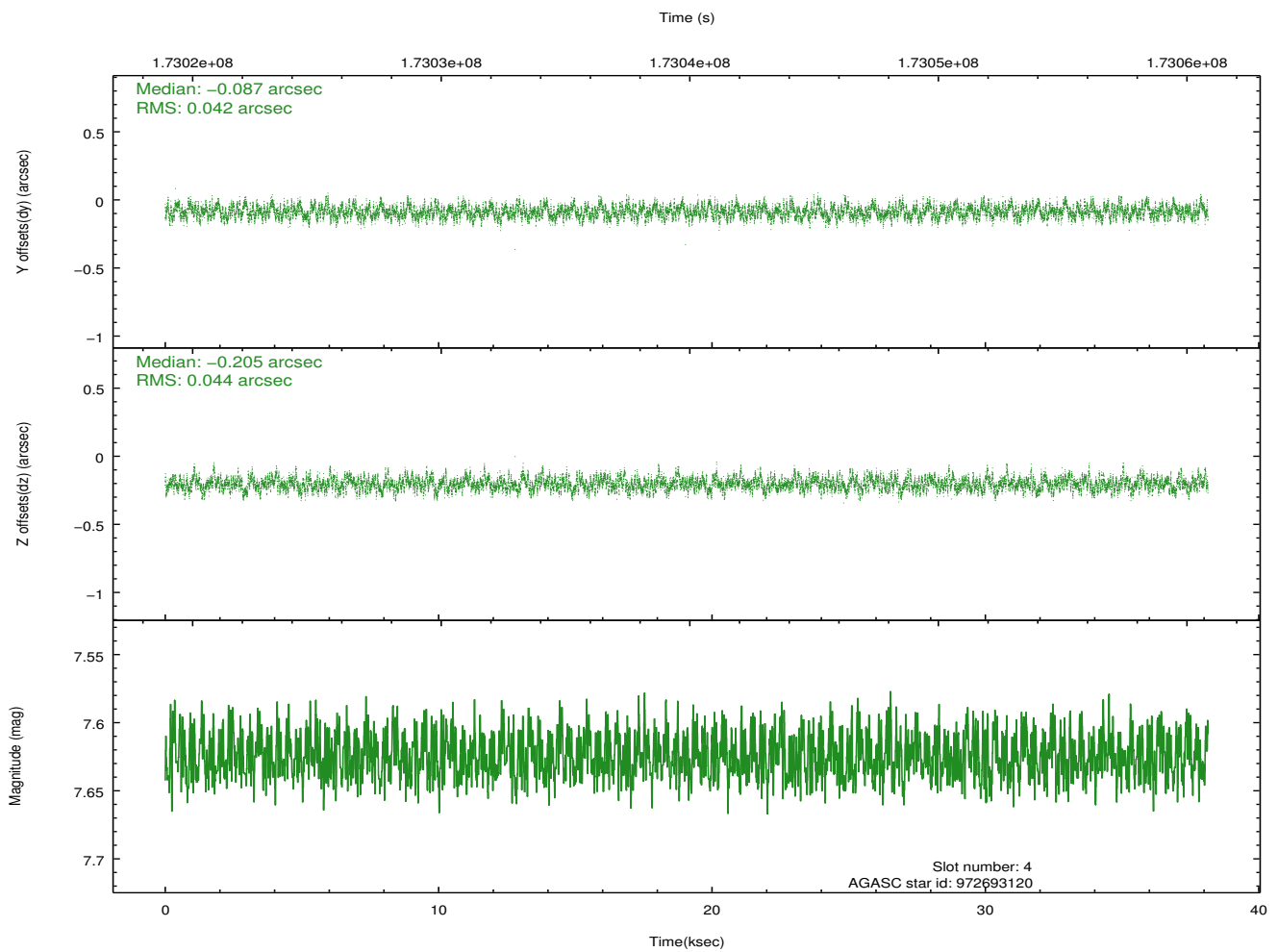
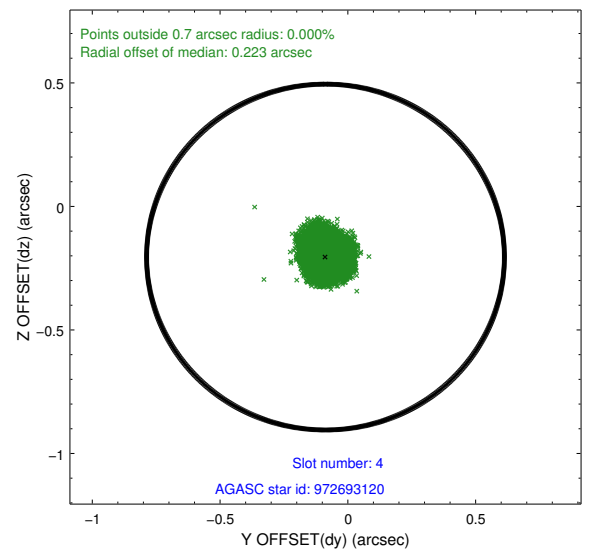
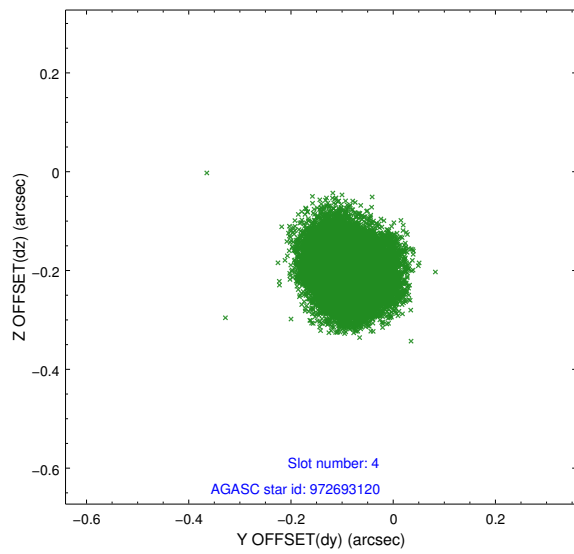
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2.4 Star Slots

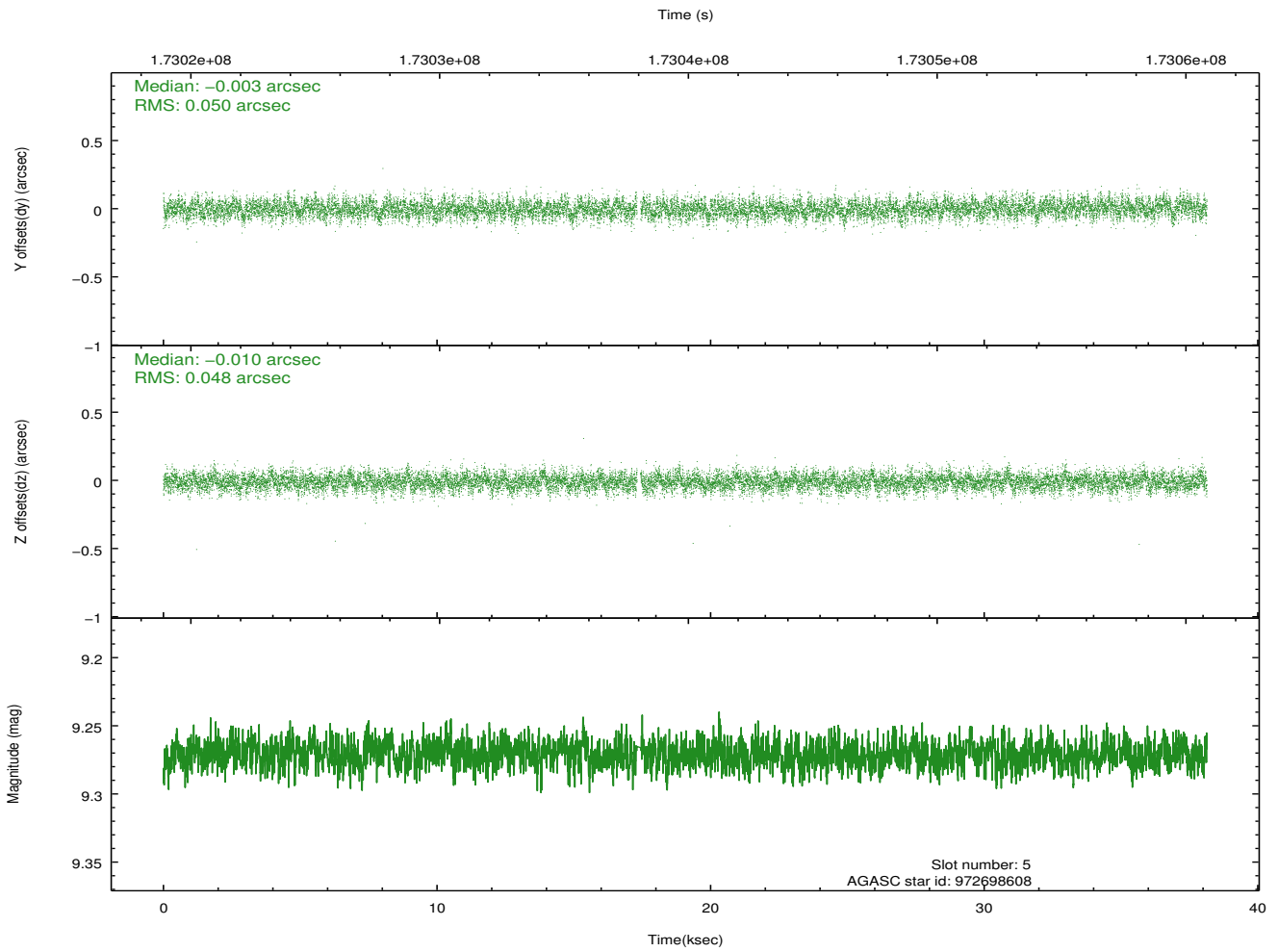
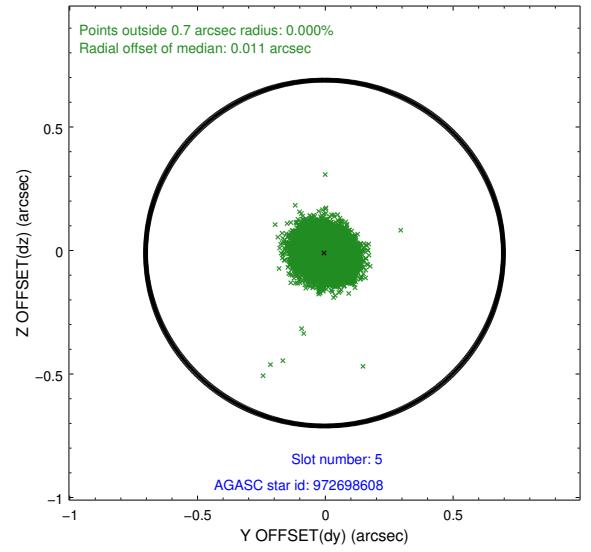
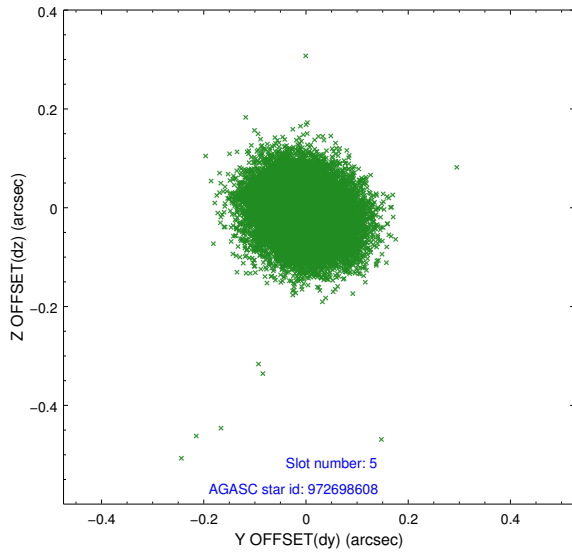
2.4.1 Slot 3



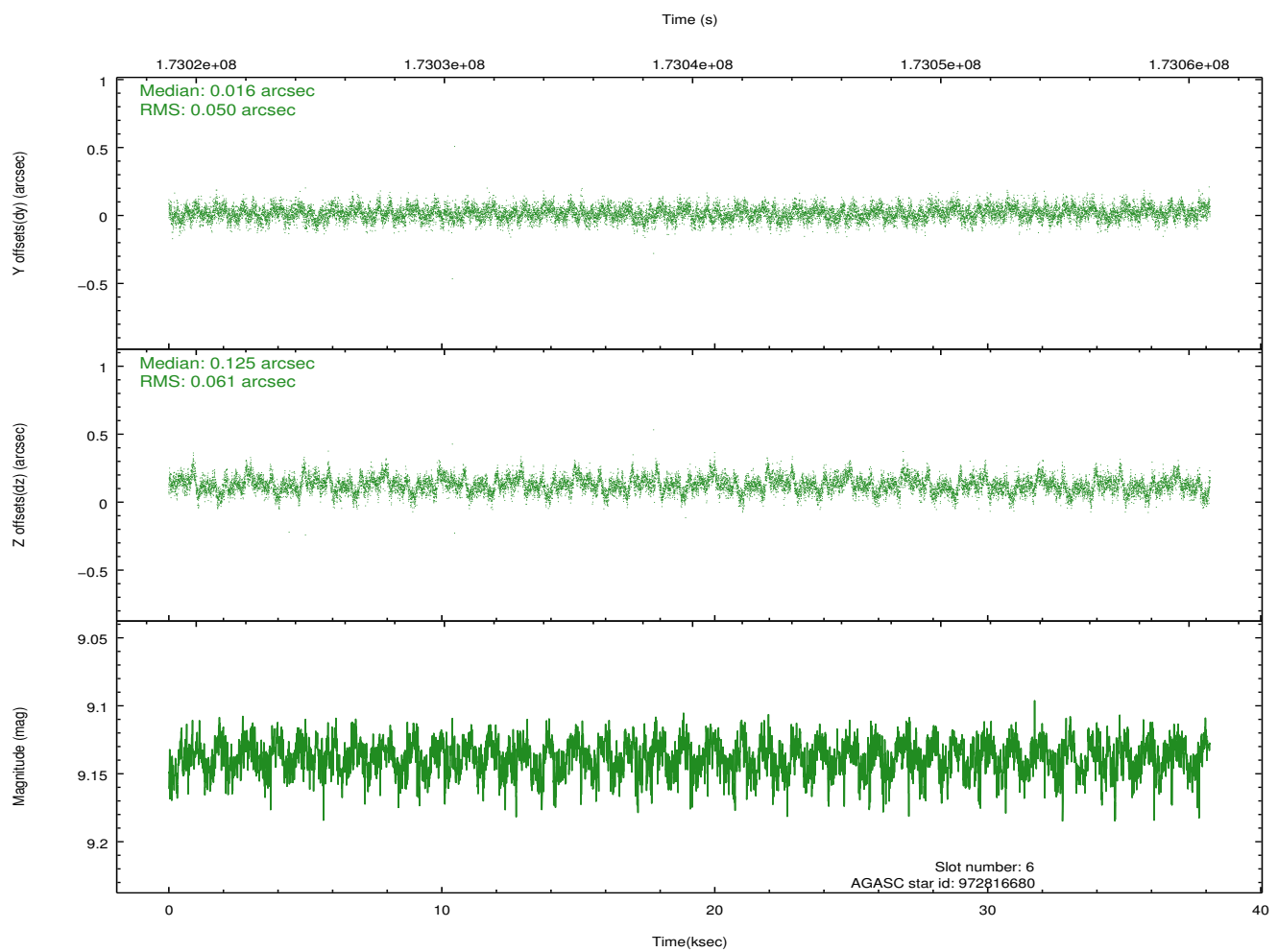
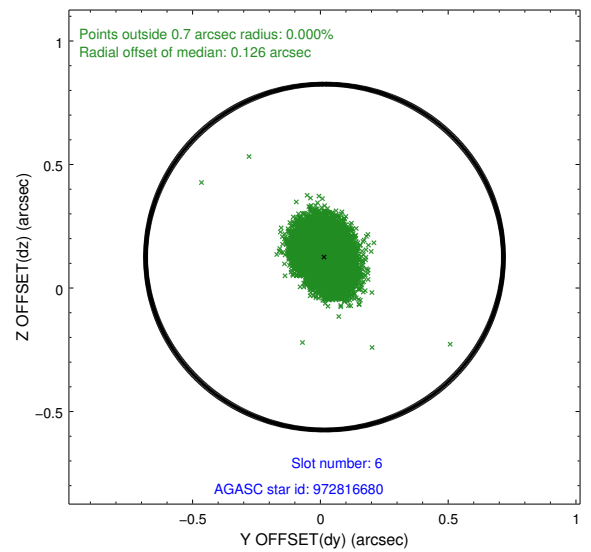
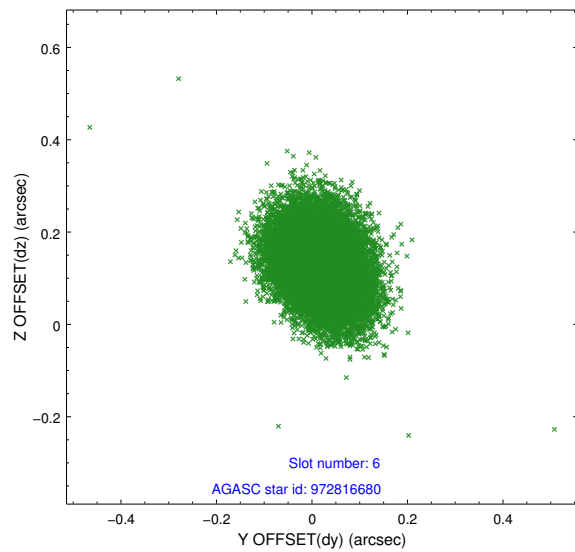
2.4.2 Slot 4



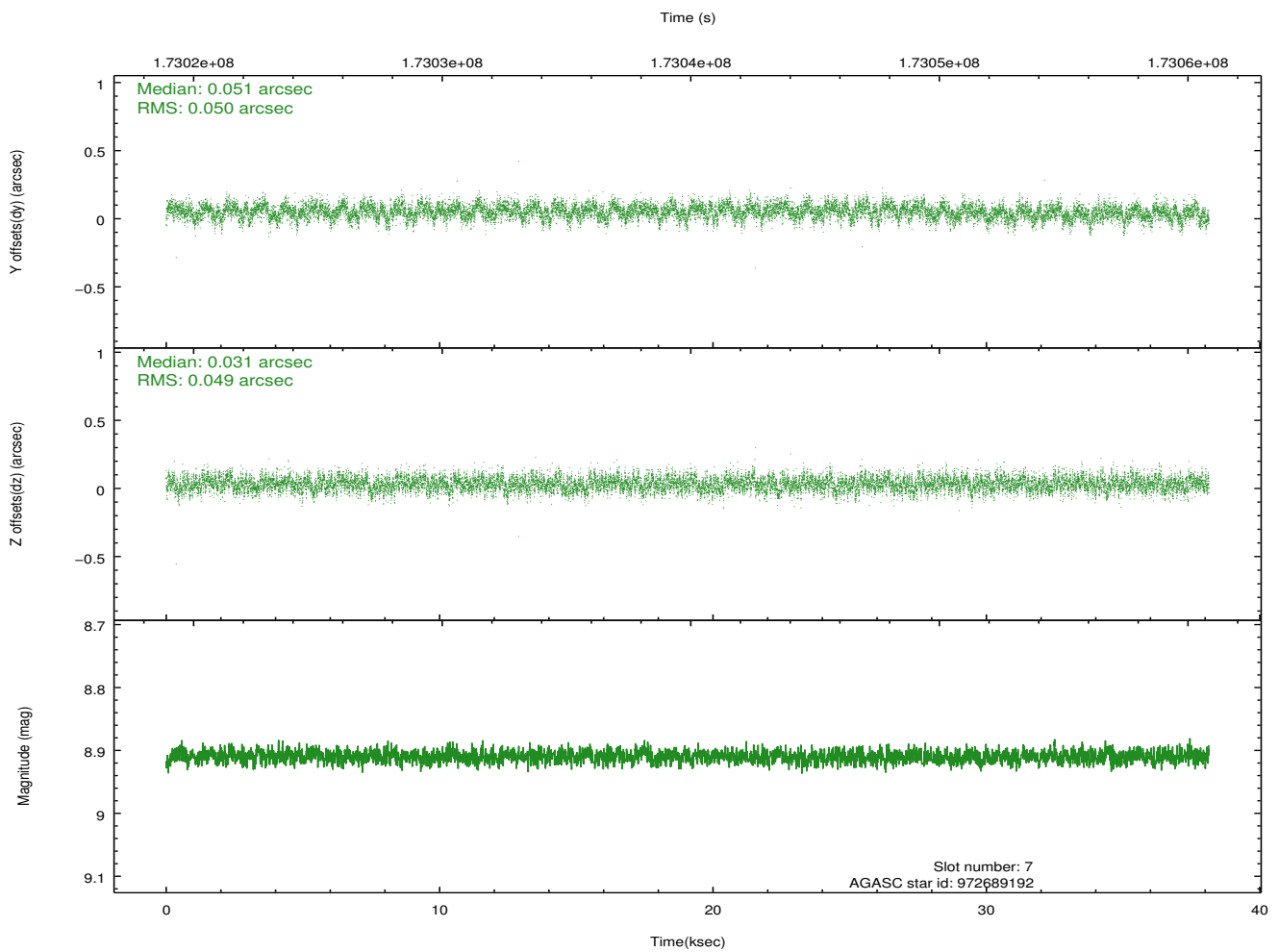
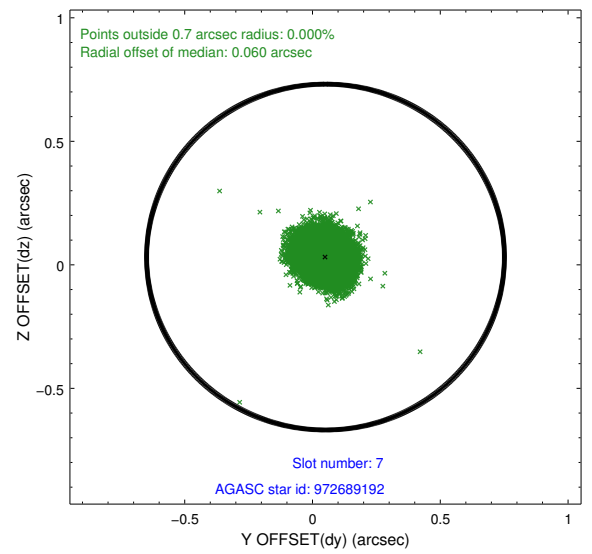
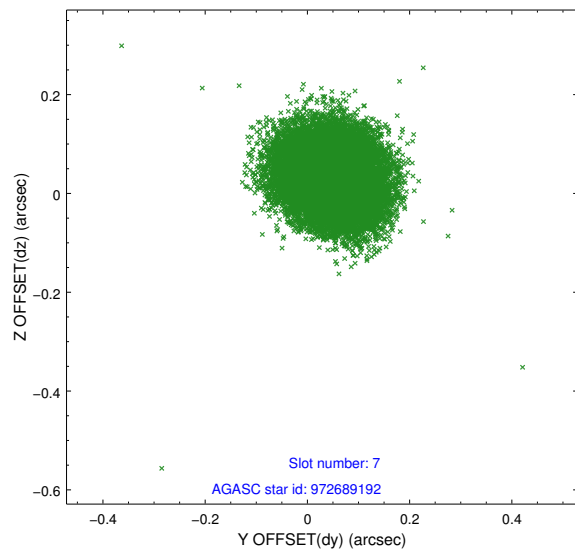
2.4.3 Slot 5



2.4.4 Slot 6

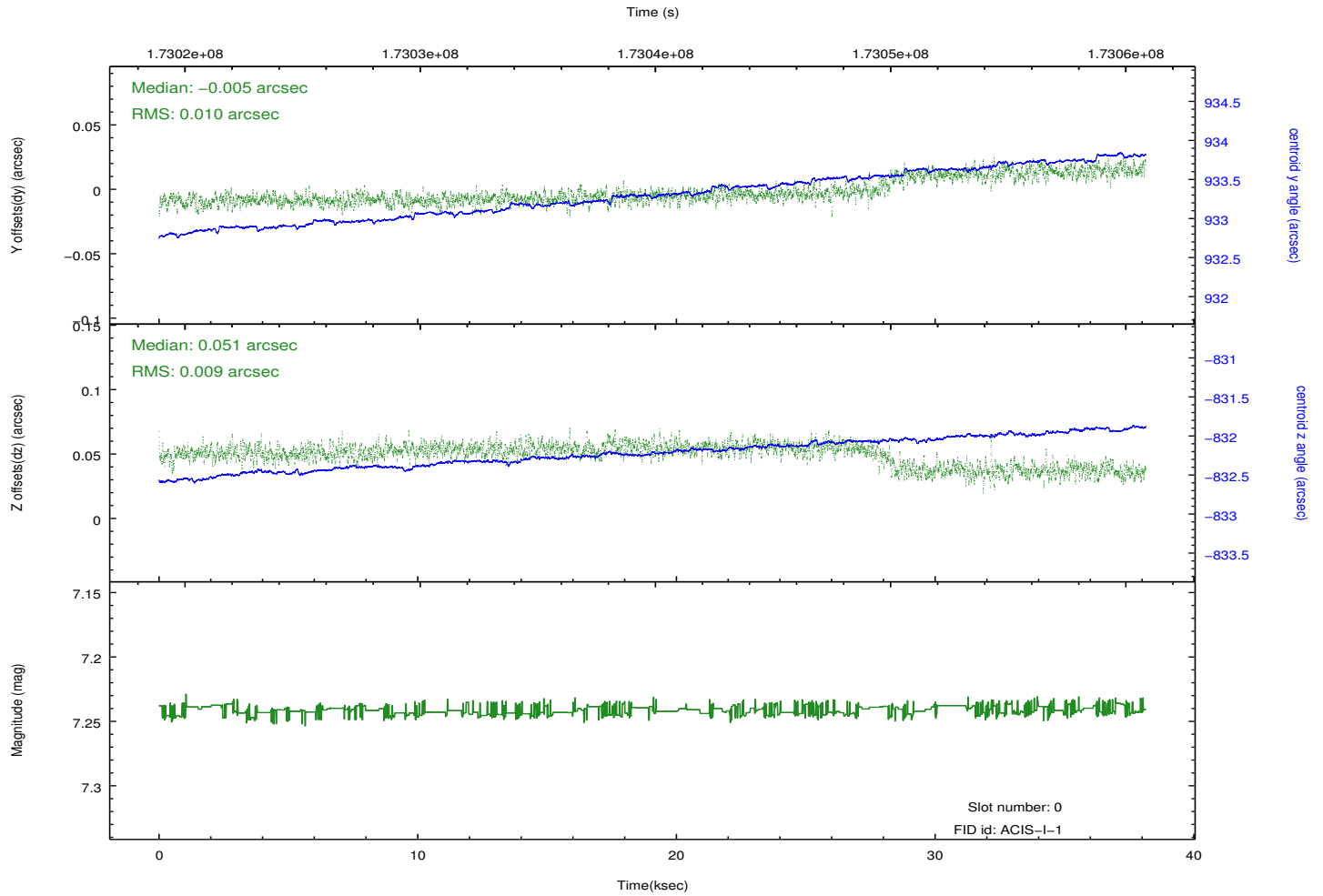
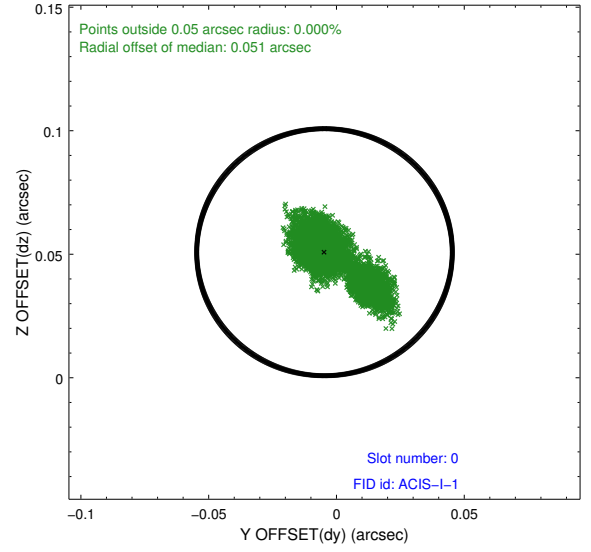
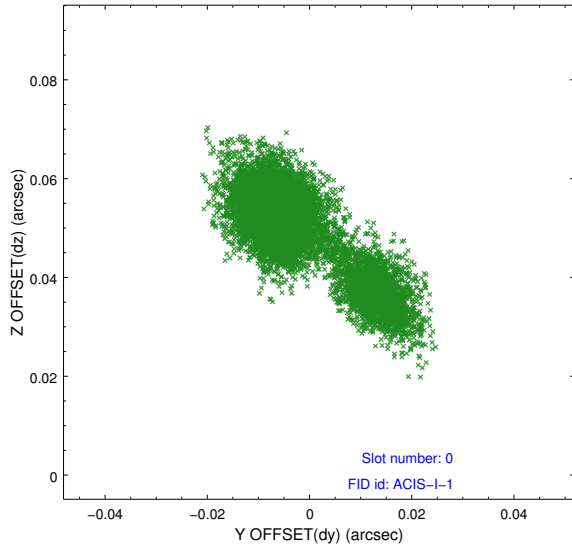


2.4.5 Slot 7

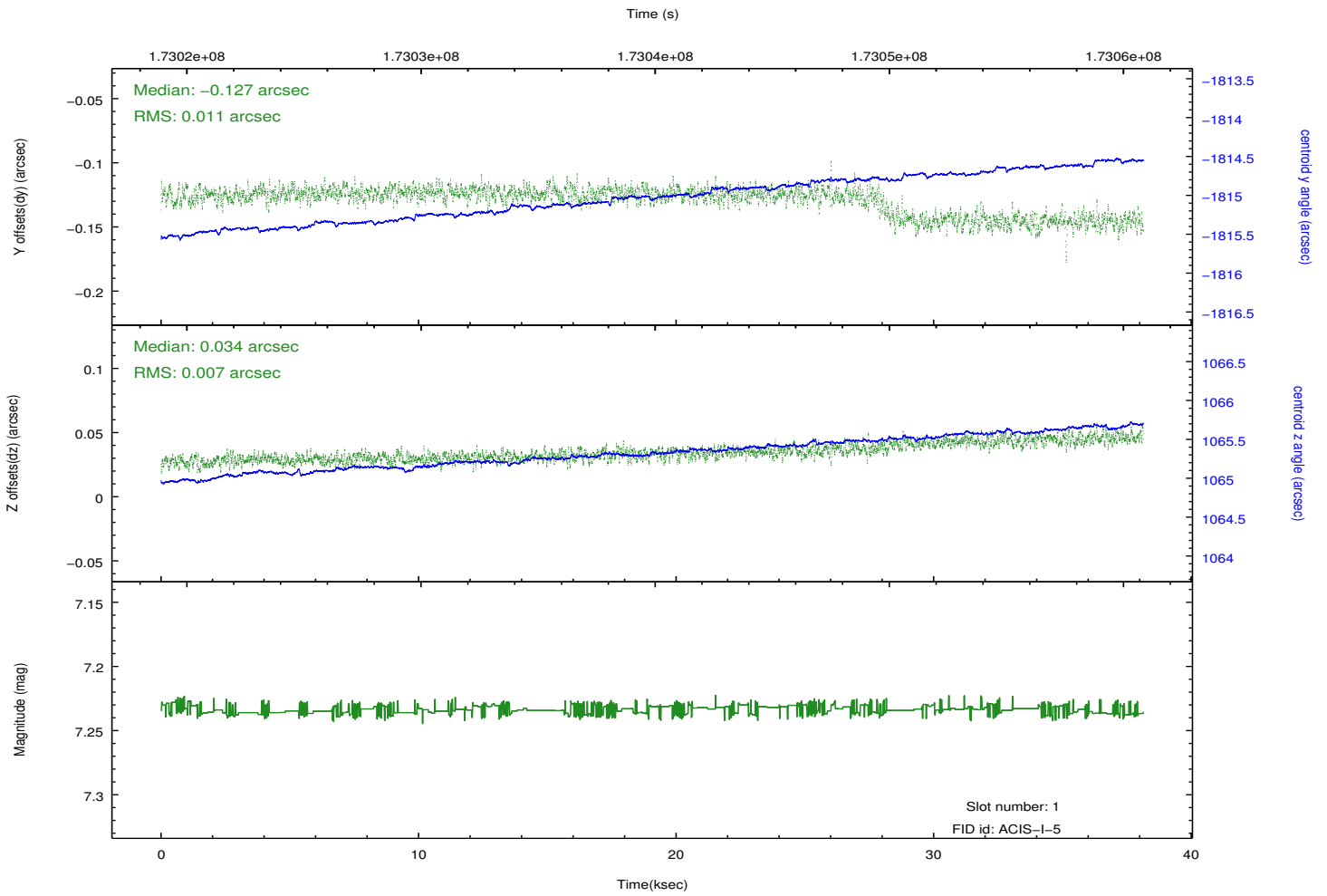
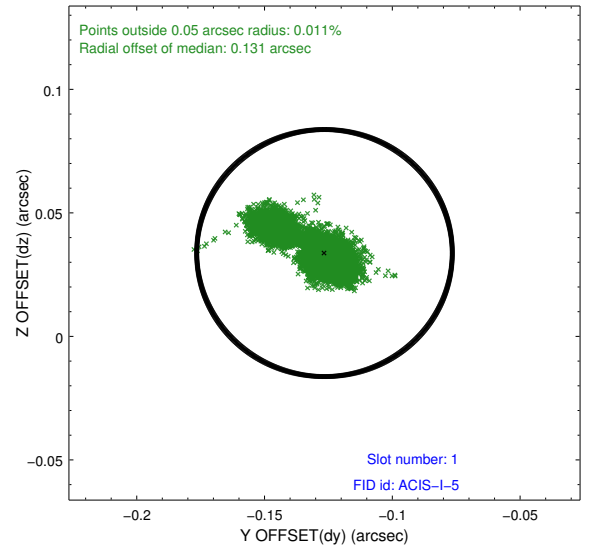
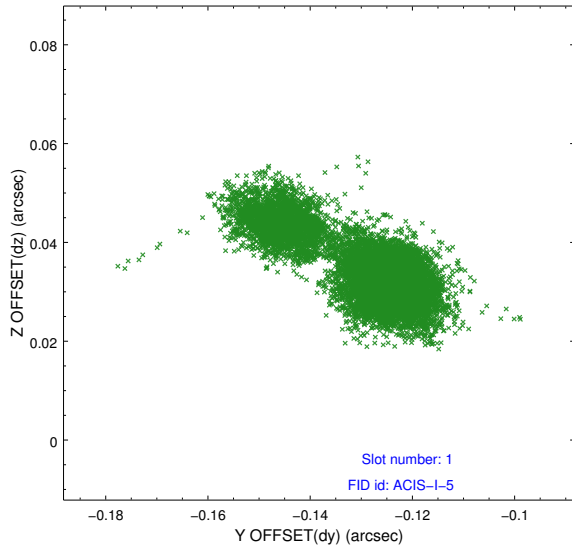


2.5 FID Slots

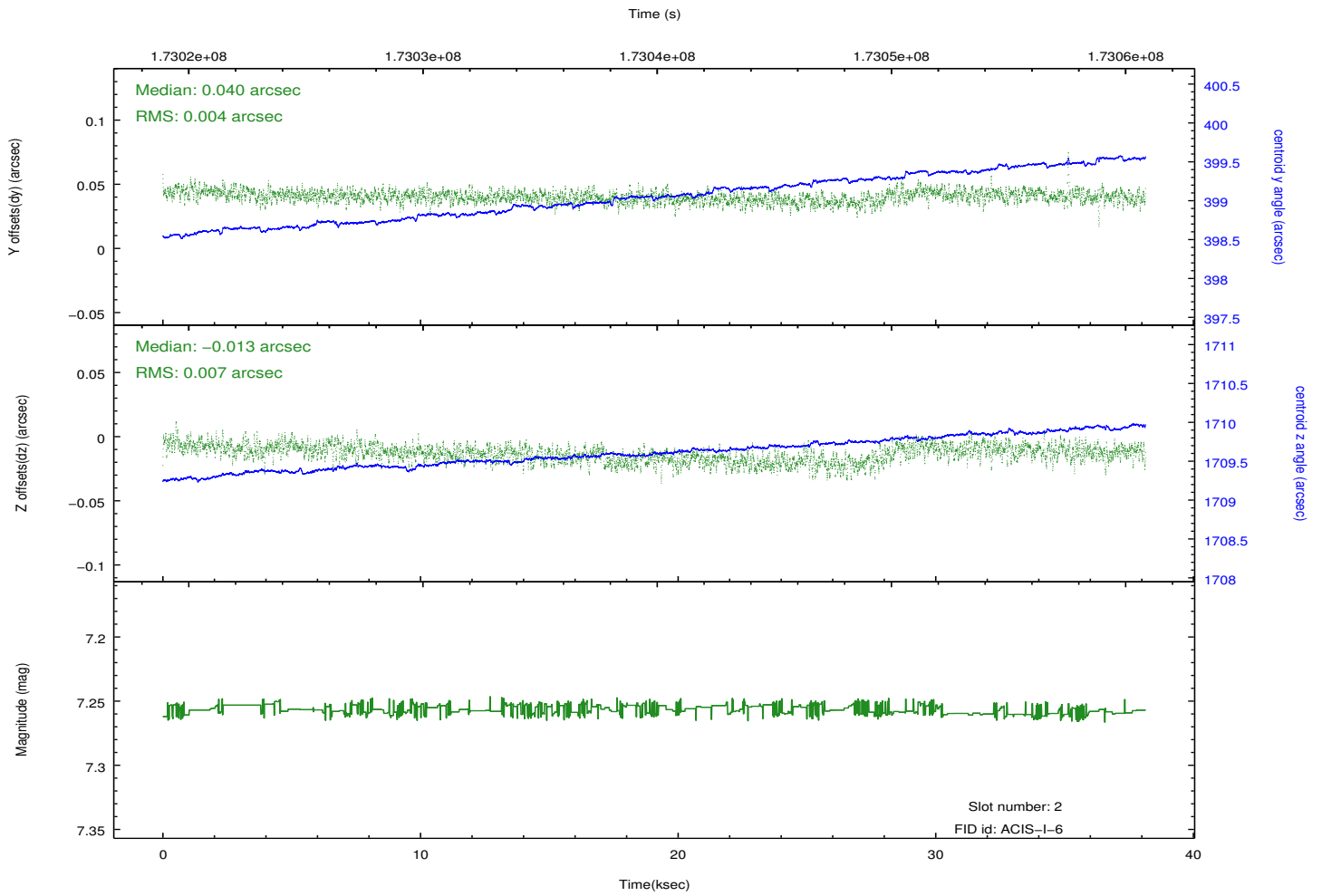
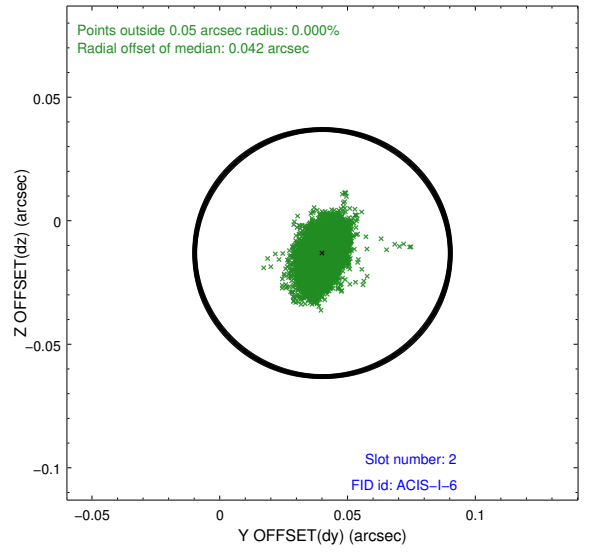
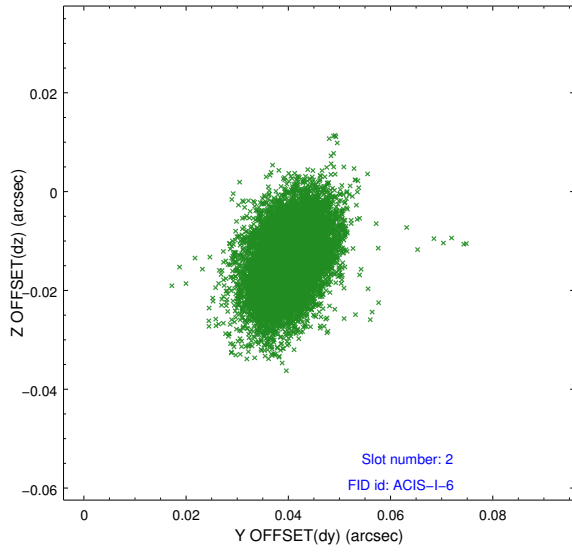
2.5.1 Slot 0



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) | 2012.11.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 38.126 |

A.2 Comments