

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19742 - L2 Version 1
Chandra X-Ray Center

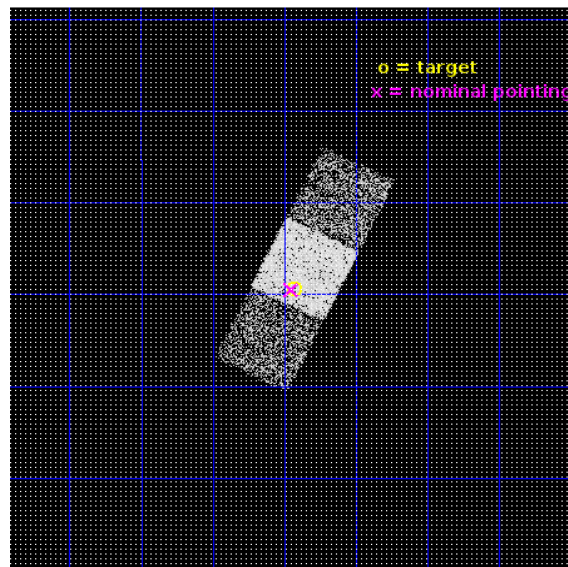
L2 Processing Date : Jan 10 2017

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1 Front

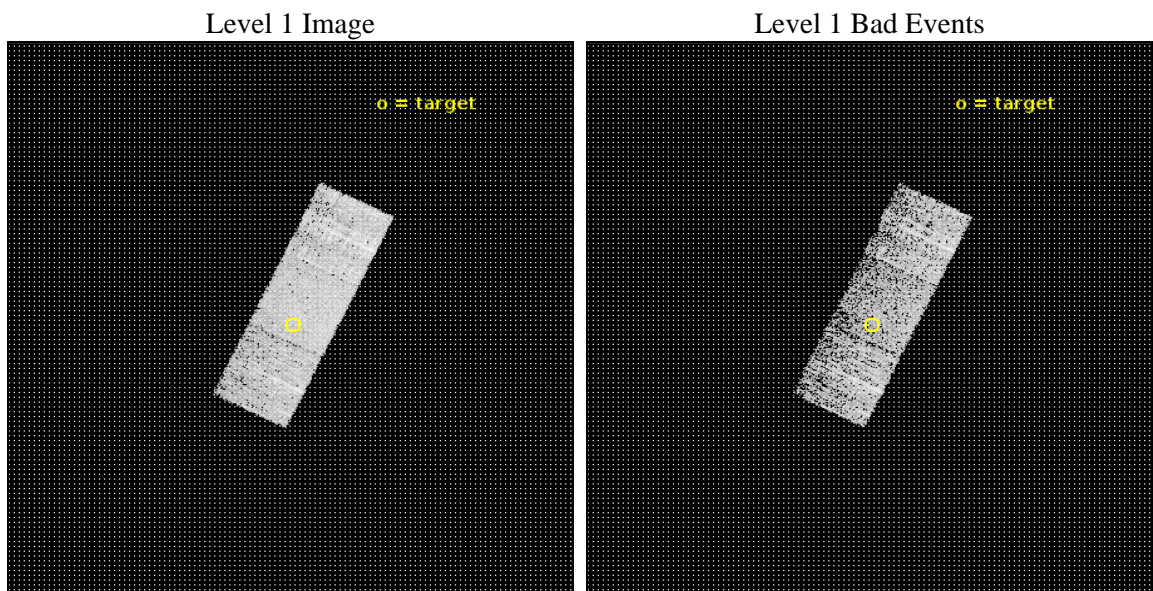
| | | |
|----------|---|---|
| seq_num | 703457 | Sequence number |
| obs_id | 19742 | Observation id |
| title | A Chandra Snapshot Survey of Extraordinarily Luminous and Heavily Obscured Quasars from the WISE Survey | Proposal title |
| observer | Gordon Garmire | Principal investigator |
| object | W2305-0039 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 346.357917 | Observer's specified target RA [deg] |
| dec_targ | -0.657139 | Observer's specified target Dec [deg] |
| ra_nom | 346.36259040708 | Nominal RA [deg] |
| dec_nom | -0.65820889908648 | Nominal Dec [deg] |
| roll_nom | 296.09008809675 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 3173.4864680767 | Sum of GTIs [s] |
| livetime | 3132.0225310845 | Livetime [s] |
| ontime6 | 3173.445428133 | Sum of GTIs [s] |
| ontime7 | 3173.4864680767 | Sum of GTIs [s] |
| ontime8 | 3173.4043880701 | Sum of GTIs [s] |
| l2events | 16495 | Number of level 2 events |



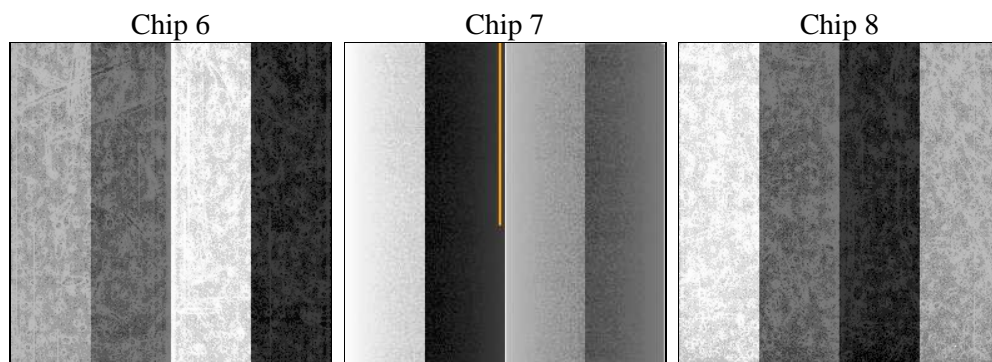
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 3060.937000 | [s] Scheduled observation exposure time |
| ascdsver | 10.5.2 | Processing system revision | ontime | 3173.4864680767 | Sum of GTIs [s] |
| caldsver | 4.7.3 | | ontime6 | 3173.445428133 | Sum of GTIs [s] |
| date | 2017-01-11T02:34:07 | Date and time of file creation | ontime7 | 3173.4864680767 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime8 | 3173.4043880701 | Sum of GTIs [s] |
| | | | l1events | 79468 | Number of level 1 events |

2.1.4 Events

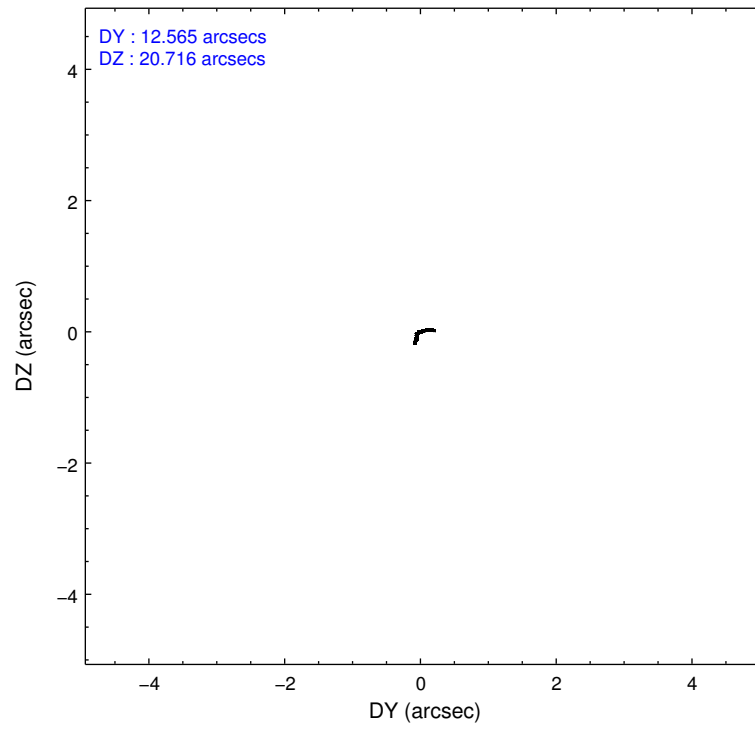
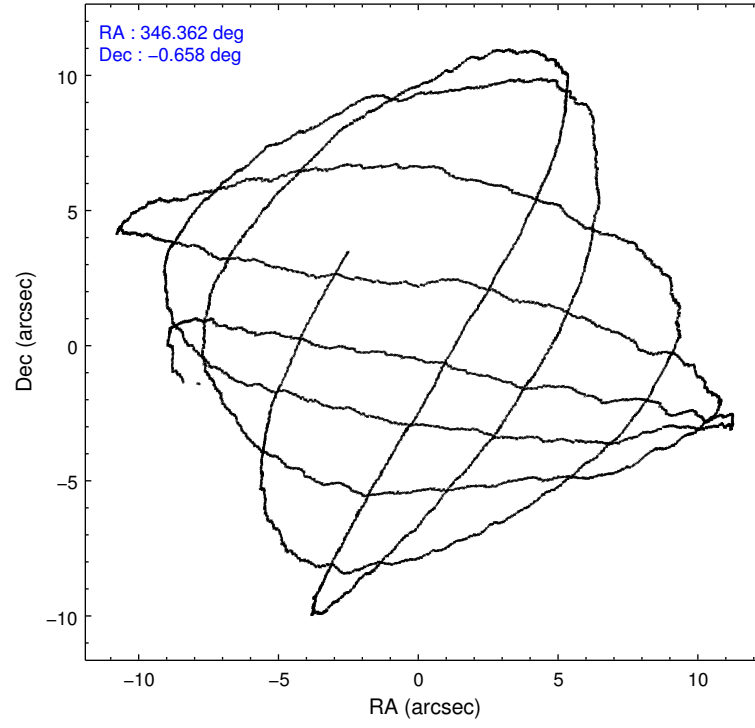
| | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|
| level 1 events | 21722 | 27552 | 30194 |
| rejected events | 19225 | 15404 | 21899 |
| rejected % | 88% | 55% | 72% |

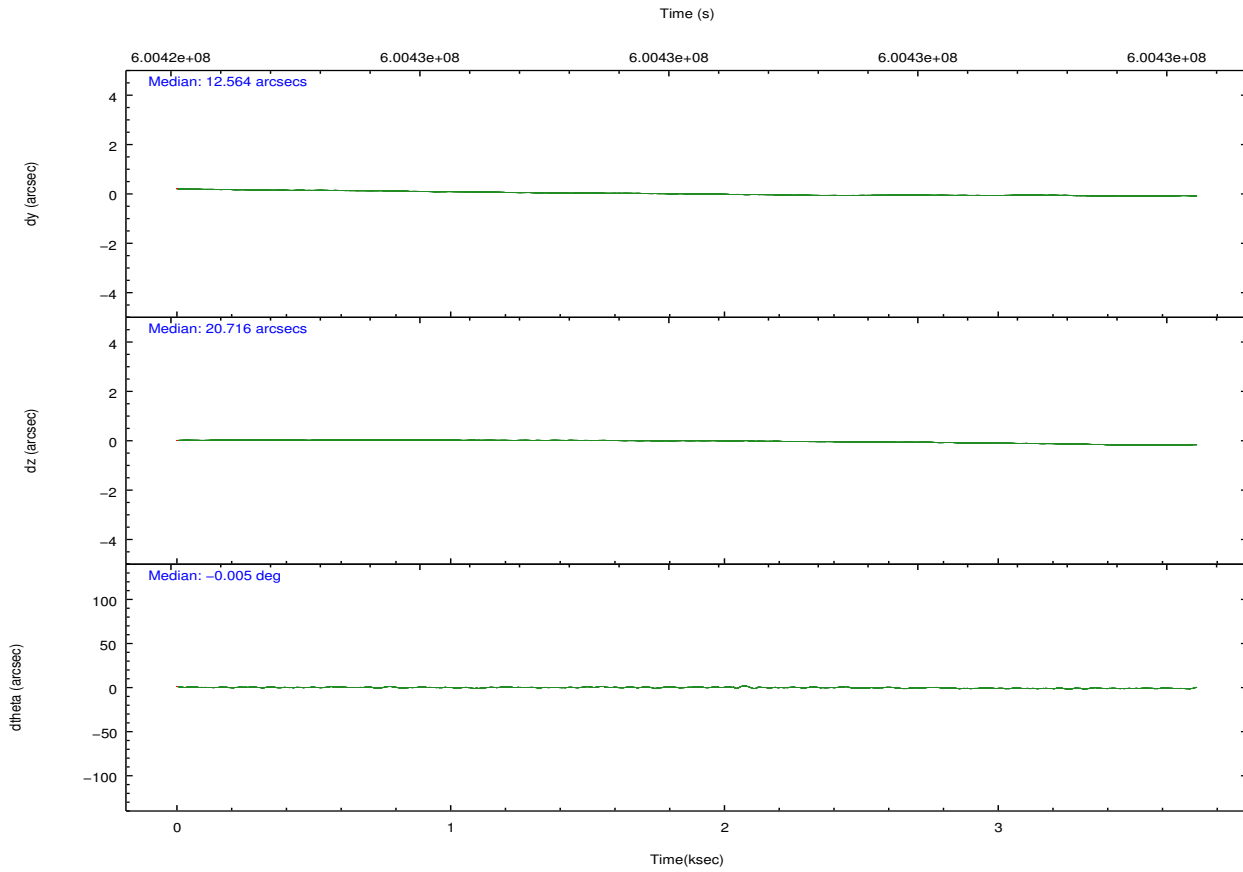
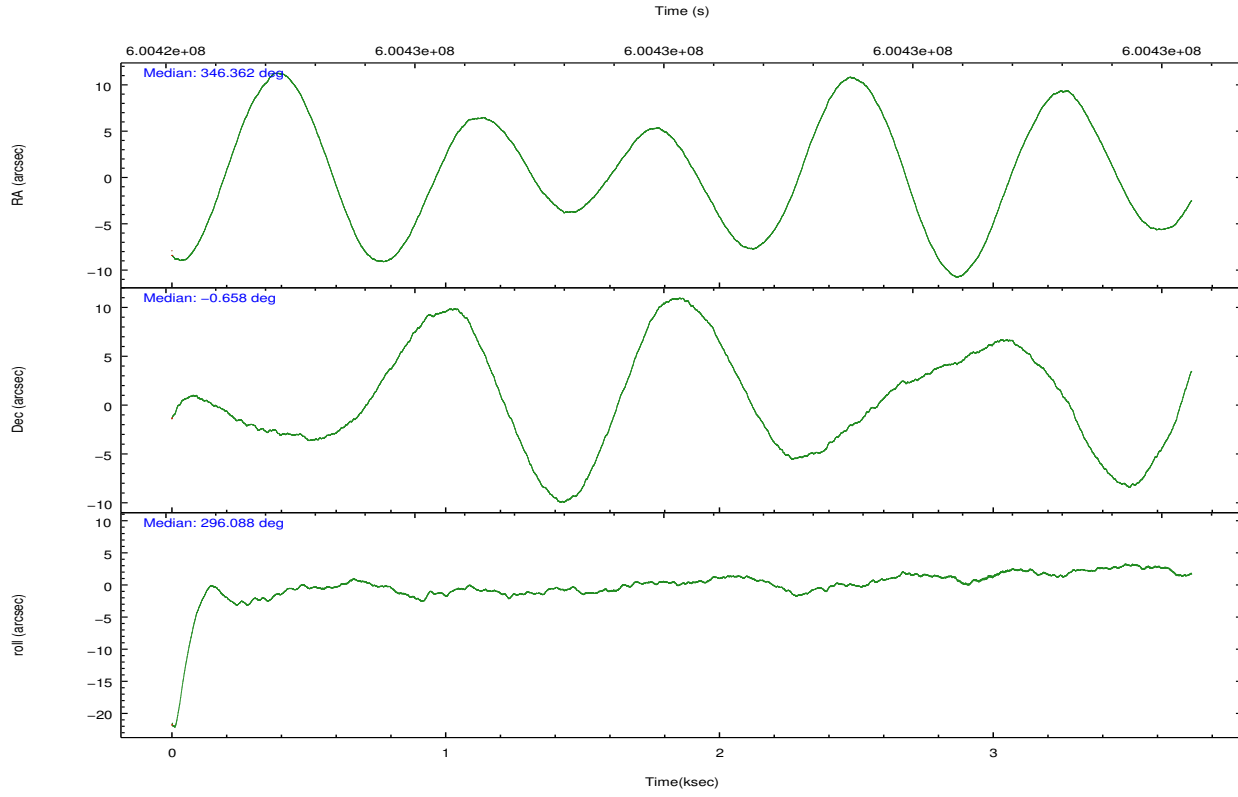
| | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|
| grade 0 events | 851 | 1044 | 2408 |
| | 3% | 3% | 7% |
| grade 1 events | 12 | 52 | 14 |
| | 0% | 0% | 0% |
| grade 2 events | 582 | 2586 | 1992 |
| | 2% | 9% | 6% |
| grade 3 events | 240 | 1013 | 856 |
| | 1% | 3% | 2% |
| grade 4 events | 248 | 929 | 814 |
| | 1% | 3% | 2% |
| grade 5 events | 1022 | 2850 | 1516 |
| | 4% | 10% | 5% |
| grade 6 events | 583 | 6602 | 2268 |
| | 2% | 23% | 7% |
| grade 7 events | 18184 | 12476 | 20326 |
| | 83% | 45% | 67% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-678 | ACIS-678 | 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 | 346.339619 | 346.3625904070828 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -0.643027 | -0.6582088990864838 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 295.933276 | 296.0900880967454 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 600425856.184000 | 600424780.19768 | | | |
| Observation start date | 2017-01-10T08:56:27 | 2017-01-10T08:39:40 | | | |
| [s] Observation end time (MET) | 600428917.184000 | 600429136.44793 | | | |
| Observation end date | 2017-01-10T09:47:28 | 2017-01-10T09:52:16 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



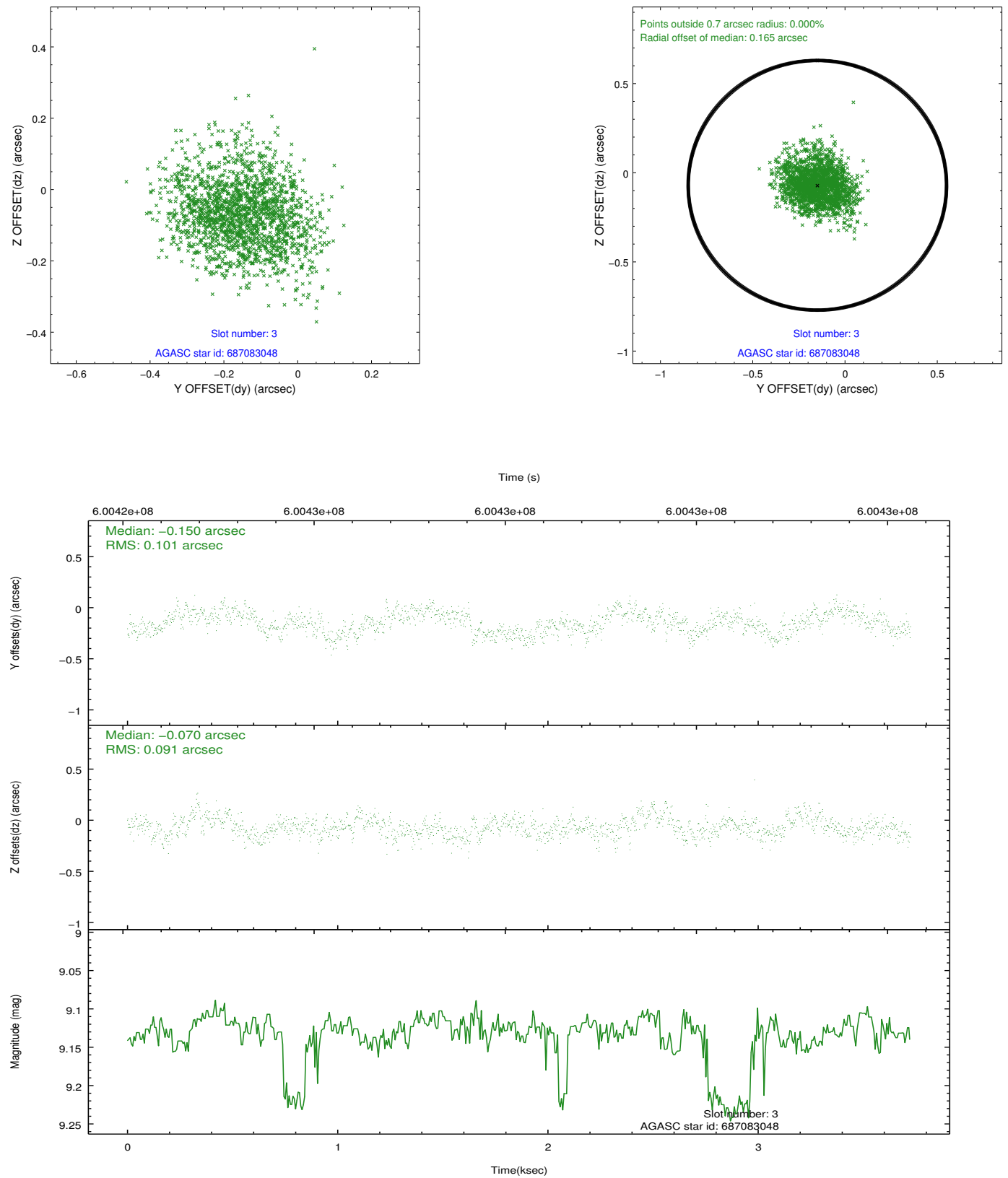


Slot Statistics

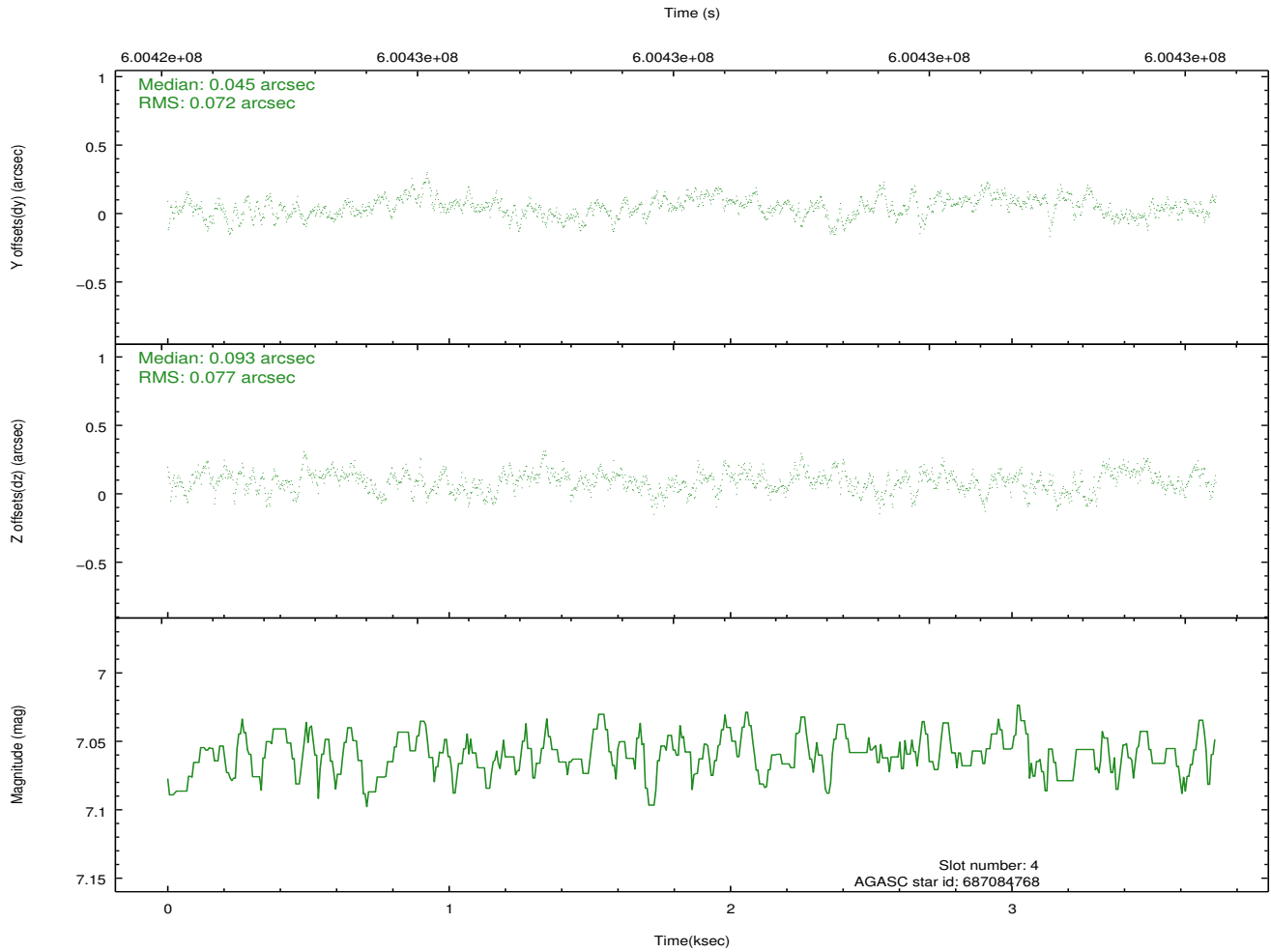
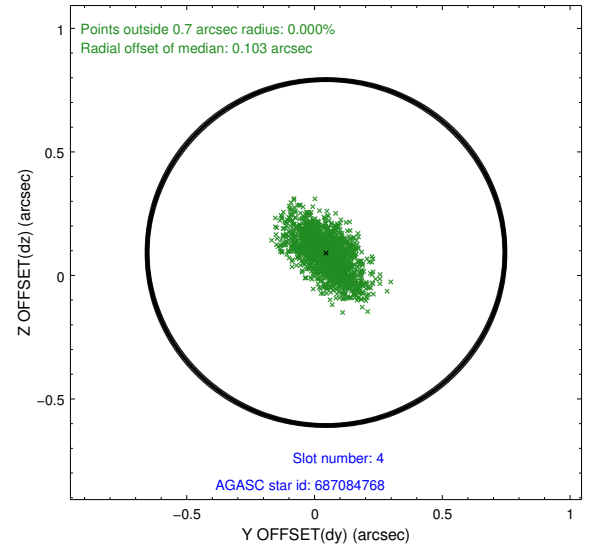
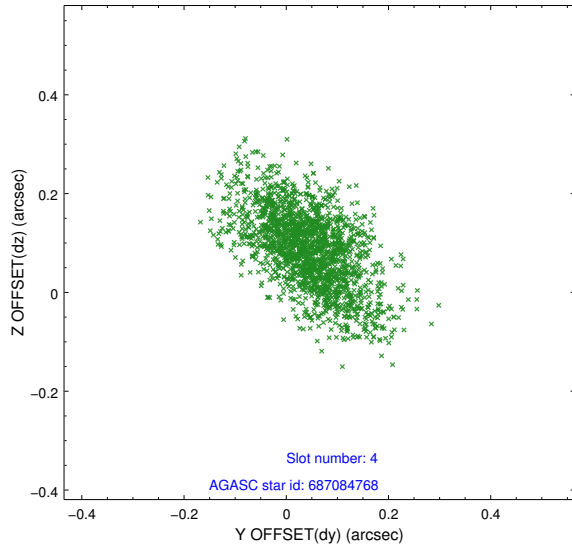
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | | ACIS-S-2 | 6.95 | 909 | -0.139 | -0.019 | 0.006 | 0.011 | 0.000000 | 0.000000 | -765.59 | -1742.20 |
| 1 | FID | | ACIS-S-4 | 7.07 | 909 | 0.325 | 0.072 | 0.006 | 0.012 | 0.000000 | 0.000000 | 2147.34 | 164.67 |
| 2 | FID | | ACIS-S-5 | 7.07 | 909 | -0.217 | -0.044 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1816.39 | 160.07 |
| 3 | GUIDE | used | 687083048 | 9.13 | 1811 | -0.150 | -0.070 | 0.147 | 0.233 | 346.635239 | -0.196137 | -983.11 | 1657.08 |
| 4 | GUIDE | used | 687084768 | 7.06 | 1818 | 0.045 | 0.093 | 0.110 | 0.196 | 345.610858 | -0.597986 | -1293.17 | -2287.16 |
| 5 | GUIDE | used | 687086456 | 9.38 | 1815 | -0.117 | -0.252 | 0.143 | 0.225 | 346.771531 | -0.988364 | 1796.92 | 853.40 |
| 6 | GUIDE | used | 687087600 | 9.18 | 1814 | 0.087 | 0.017 | 0.131 | 0.223 | 346.260800 | -1.199897 | 1680.04 | -1130.82 |
| 7 | GUIDE | used | 687087704 | 9.29 | 1815 | 0.142 | 0.218 | 0.150 | 0.251 | 346.115452 | -0.536438 | -696.83 | -557.70 |

2.4 Star Slots

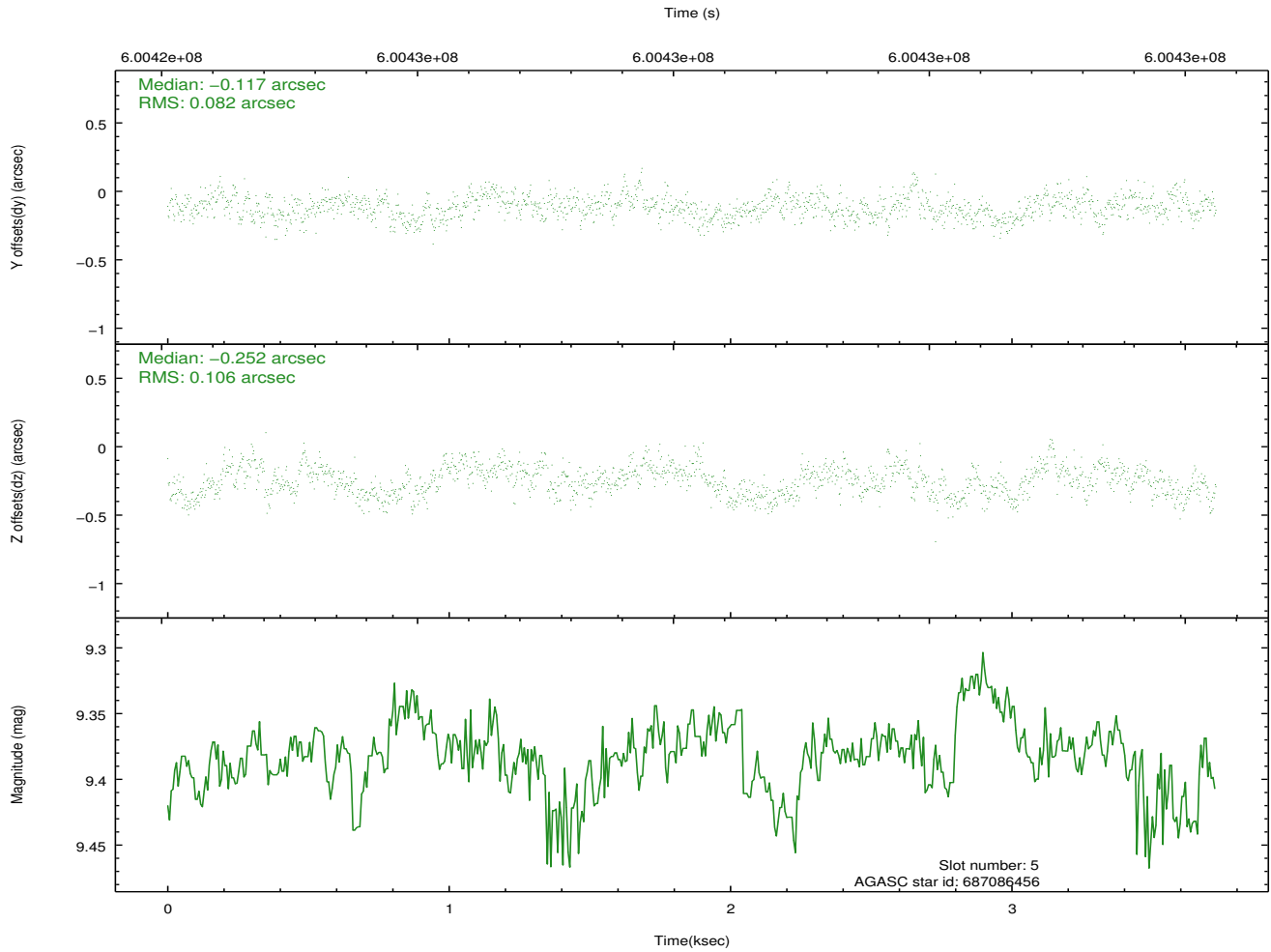
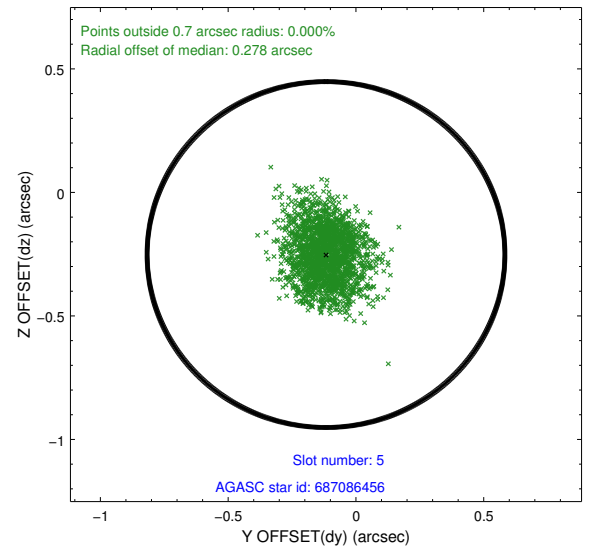
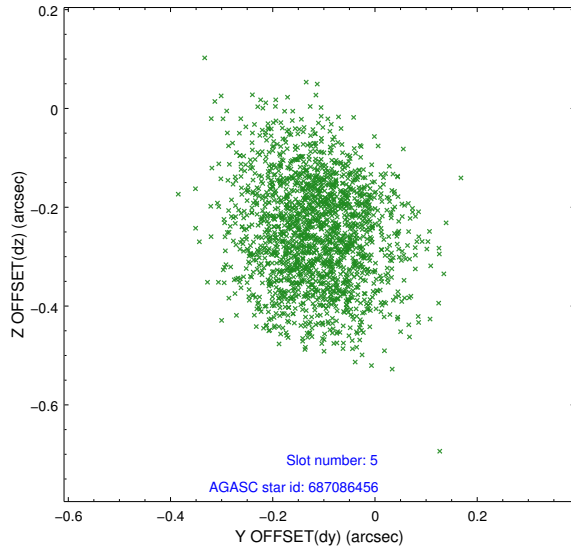
2.4.1 Slot 3



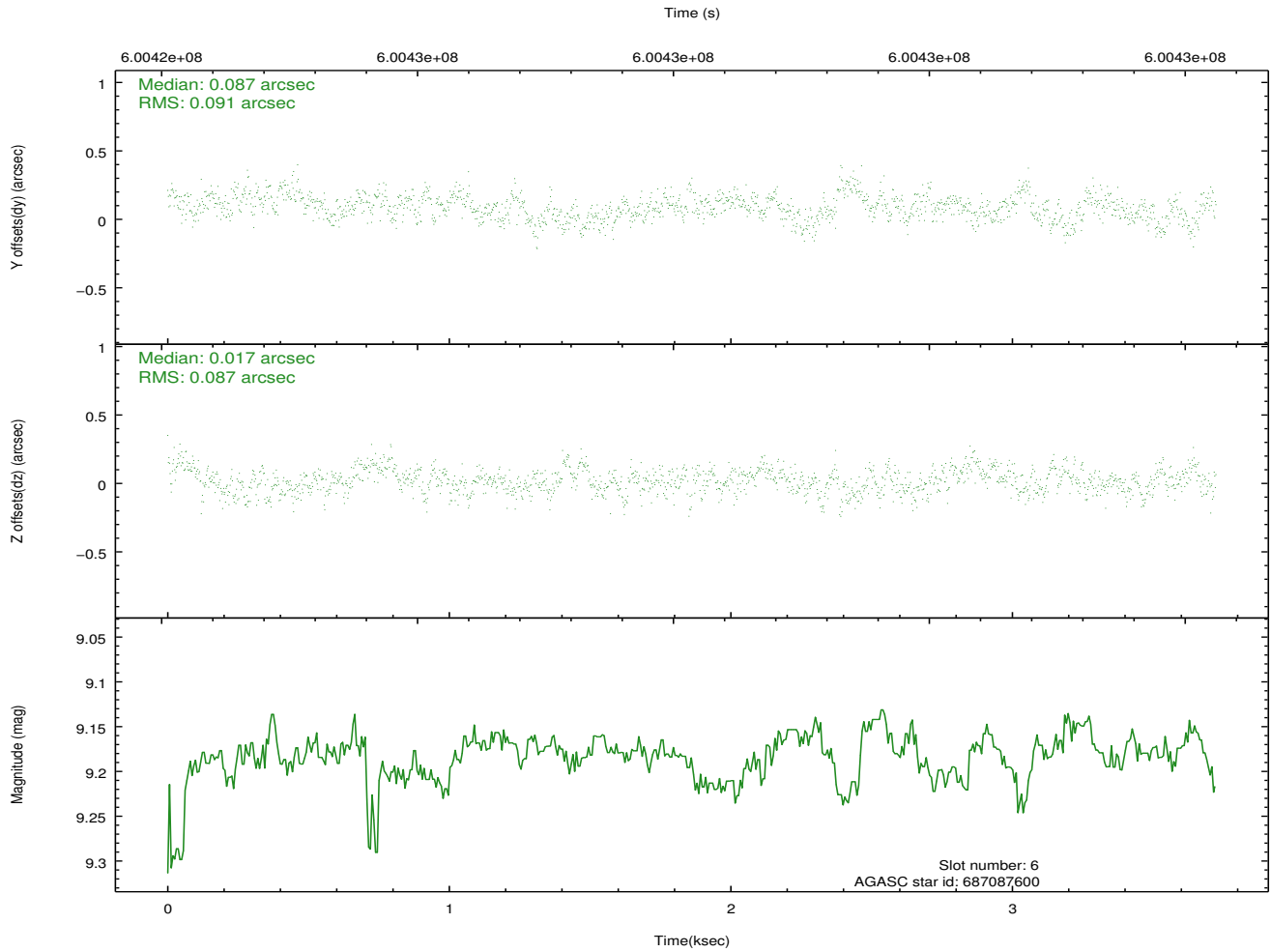
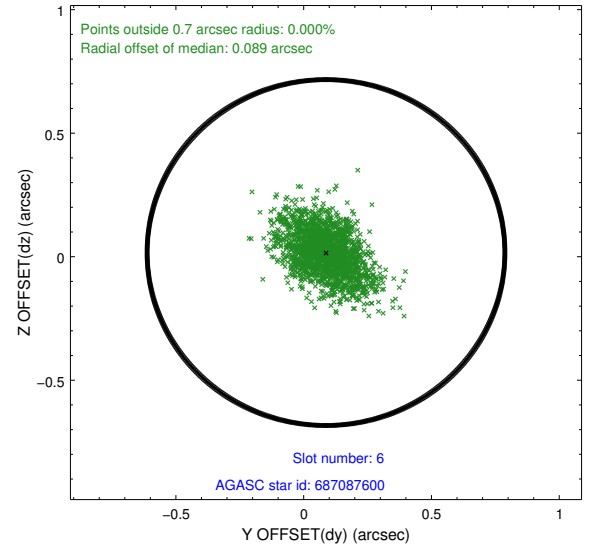
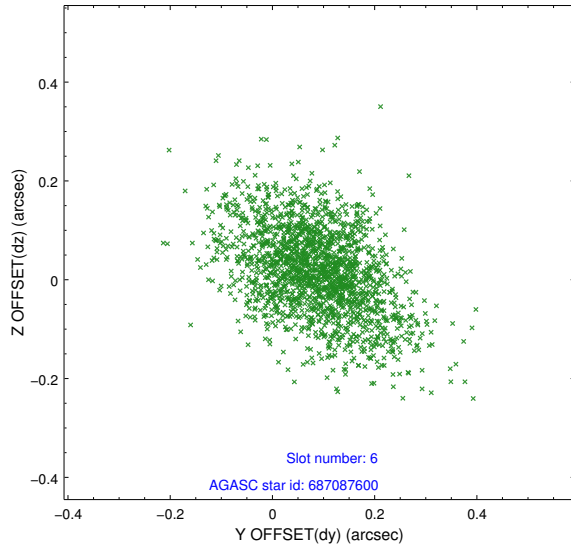
2.4.2 Slot 4



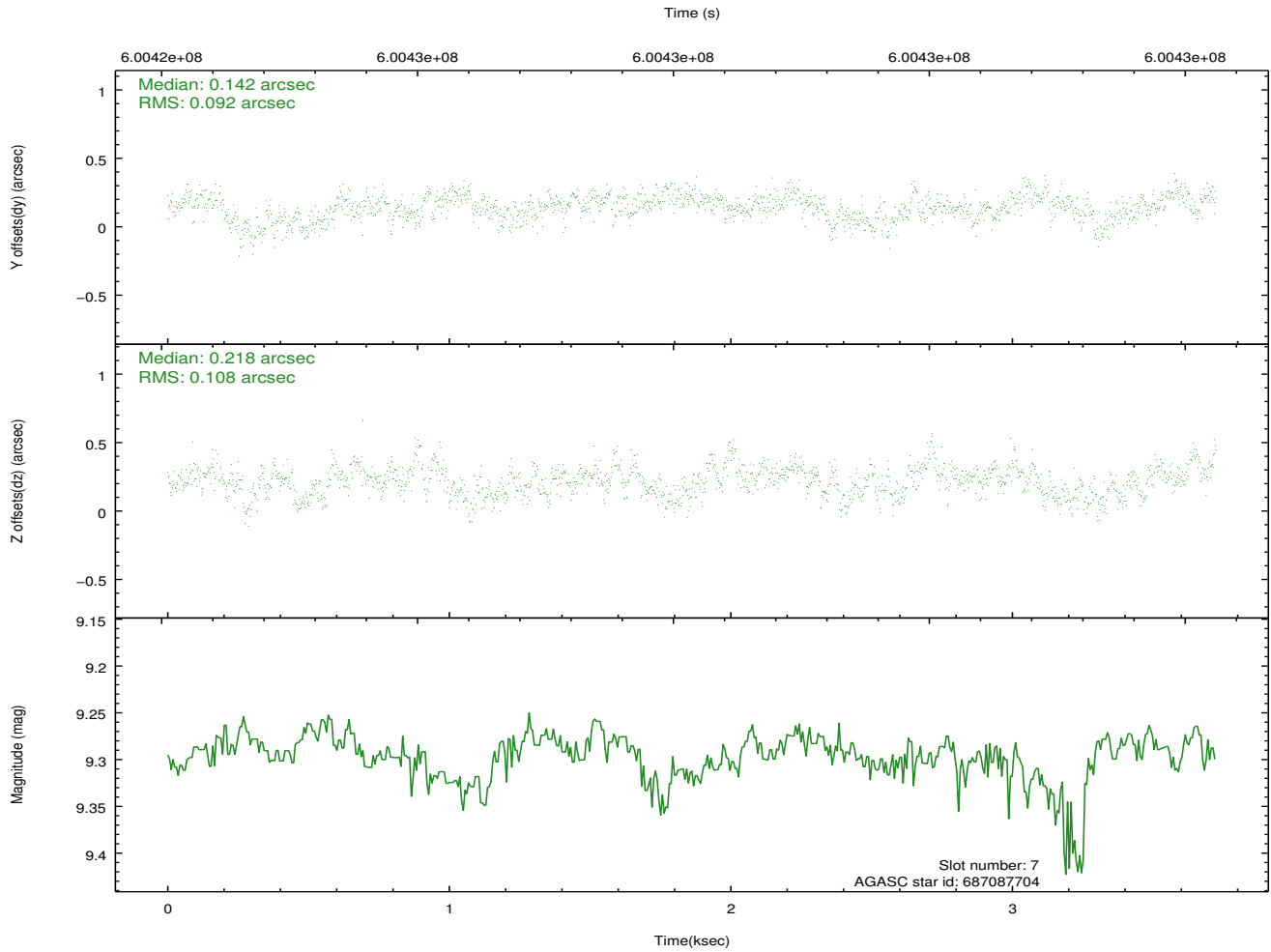
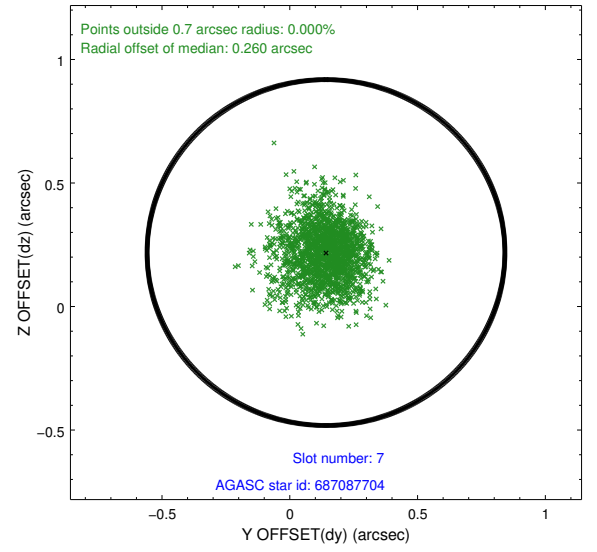
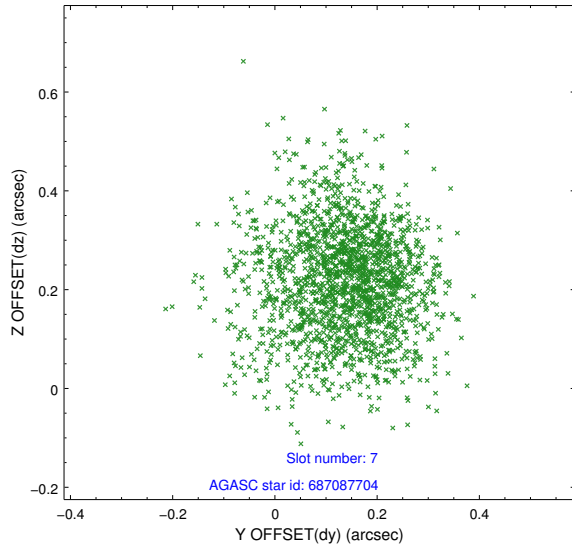
2.4.3 Slot 5



2.4.4 Slot 6

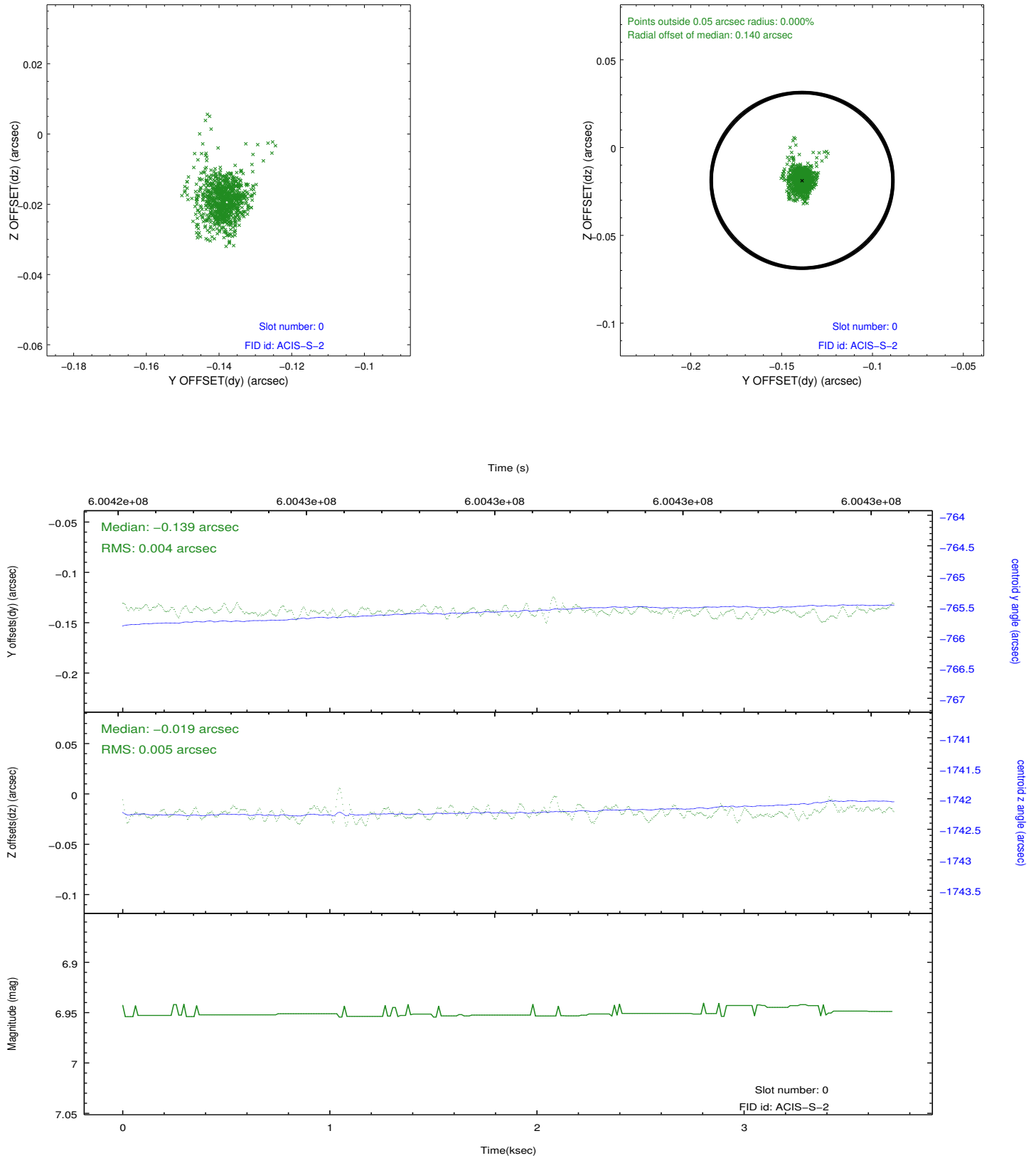


2.4.5 Slot 7

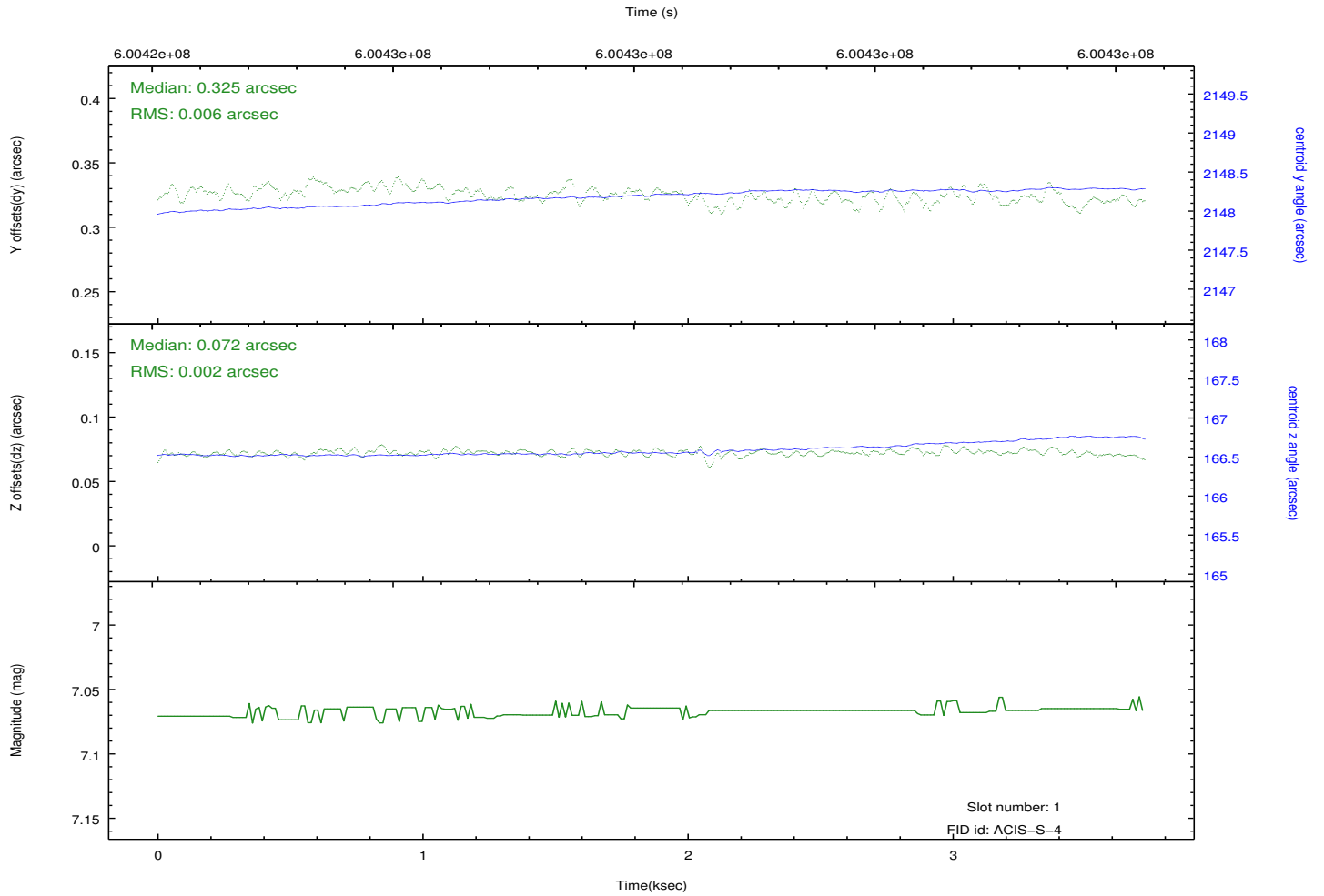
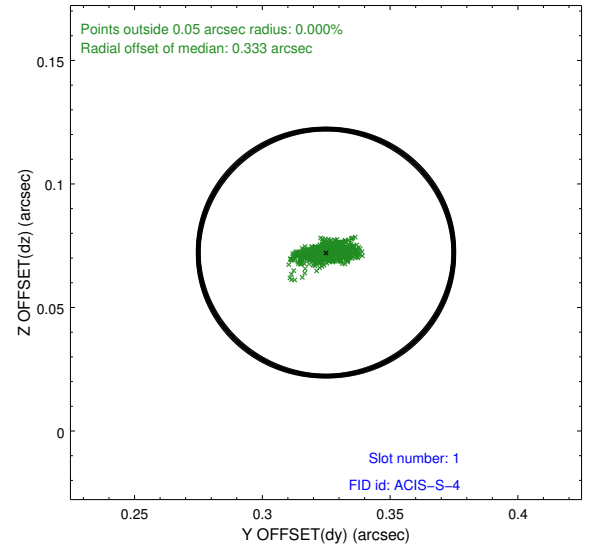
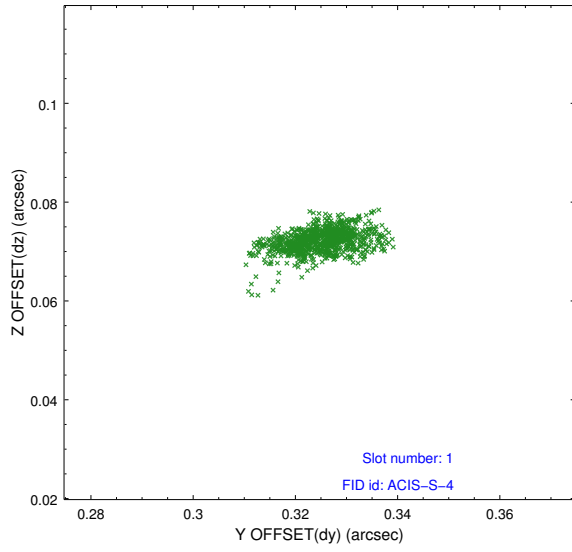


2.5 FID Slots

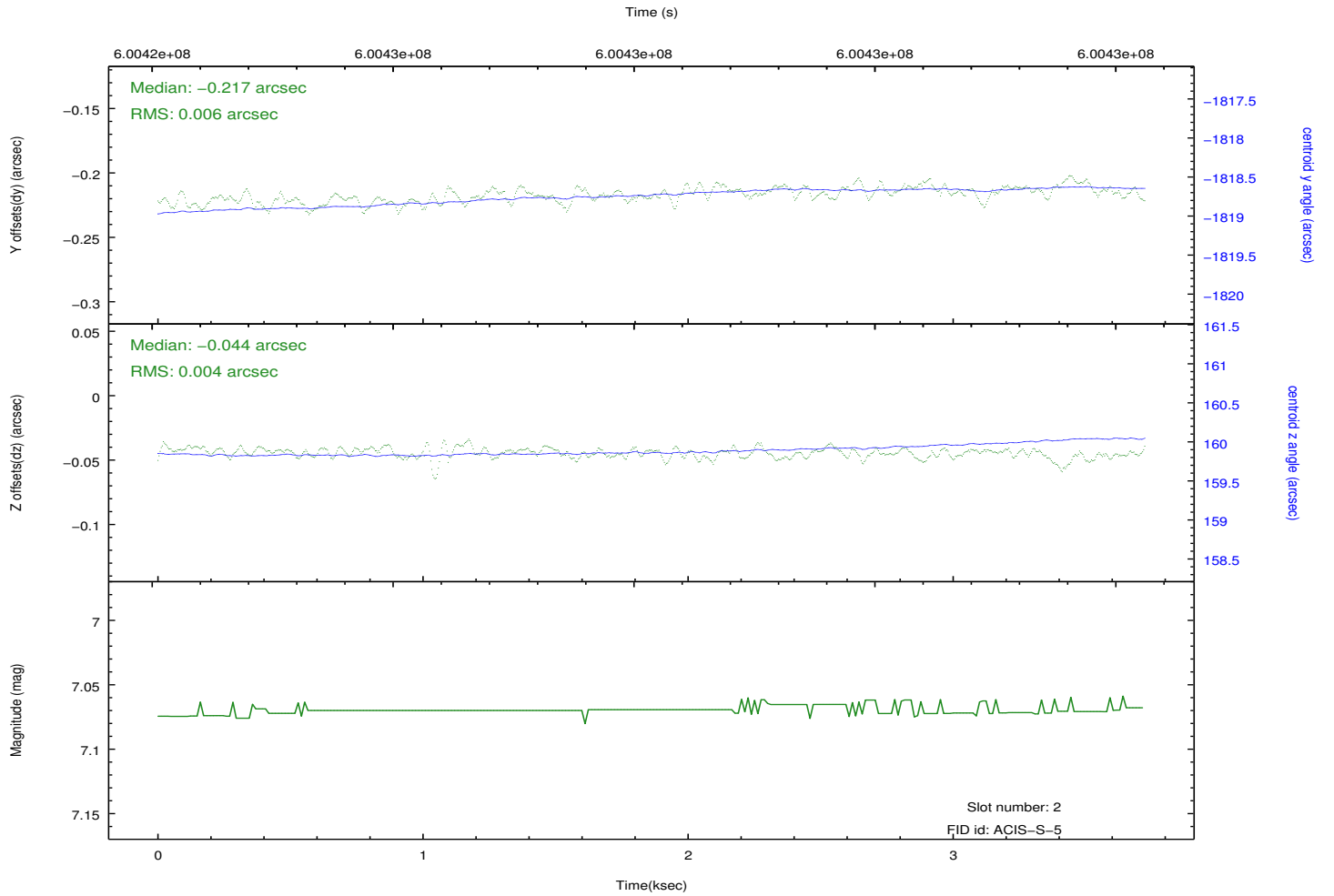
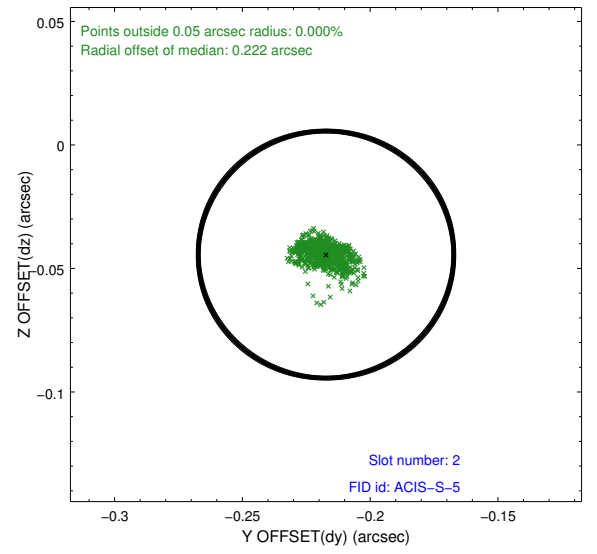
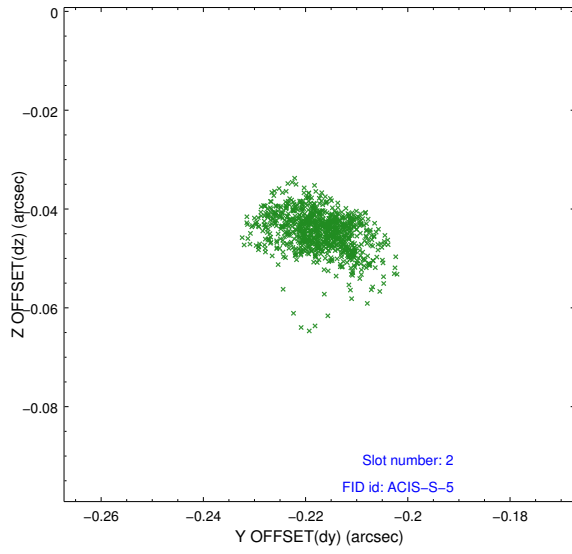
2.5.1 Slot 0



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) | 2017.01.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.1734864680767 |

A.2 Comments