

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9302 - L2 Version 2
Chandra X-Ray Center

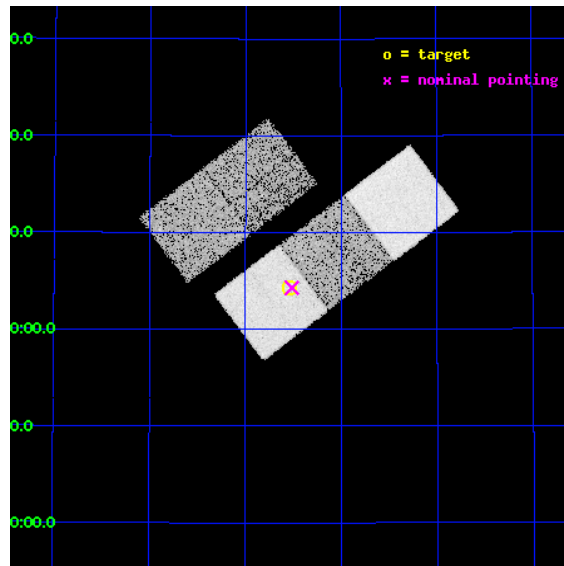
L2 Processing Date : May 5 2012

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1 Front

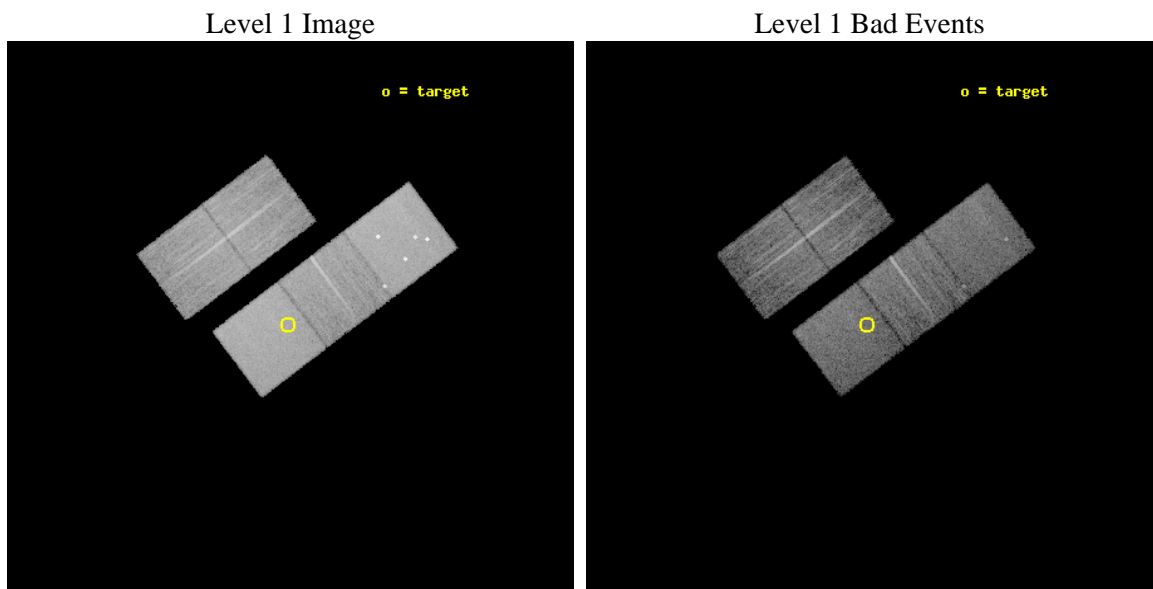
| | | |
|----------|---|---|
| seq_num | 701742 | Sequence number |
| obs_id | 9302 | Observation id |
| title | Towards a Complete Sample: 3CR Extragalactic Radio Sources with $z < 0.3$ | Proposal title |
| observer | Dr. Daniel Harris | Principal investigator |
| object | 3C153 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 92.385833 | Observer's specified target RA [deg] |
| dec_targ | 48.071 | Observer's specified target Dec [deg] |
| ra_nom | 92.378668485222 | Nominal RA [deg] |
| dec_nom | 48.071444917286 | Nominal Dec [deg] |
| roll_nom | 142.93526480314 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8171.6000628471 | Sum of GTIs [s] |
| livetime | 8064.8320921816 | Livetime [s] |
| ontime2 | 8168.4590426087 | Sum of GTIs [s] |
| ontime3 | 8171.6000628471 | Sum of GTIs [s] |
| ontime5 | 8171.6000628471 | Sum of GTIs [s] |
| ontime6 | 8171.6000628471 | Sum of GTIs [s] |
| ontime7 | 8171.6000628471 | Sum of GTIs [s] |
| l2events | 122946 | Number of level 2 events |



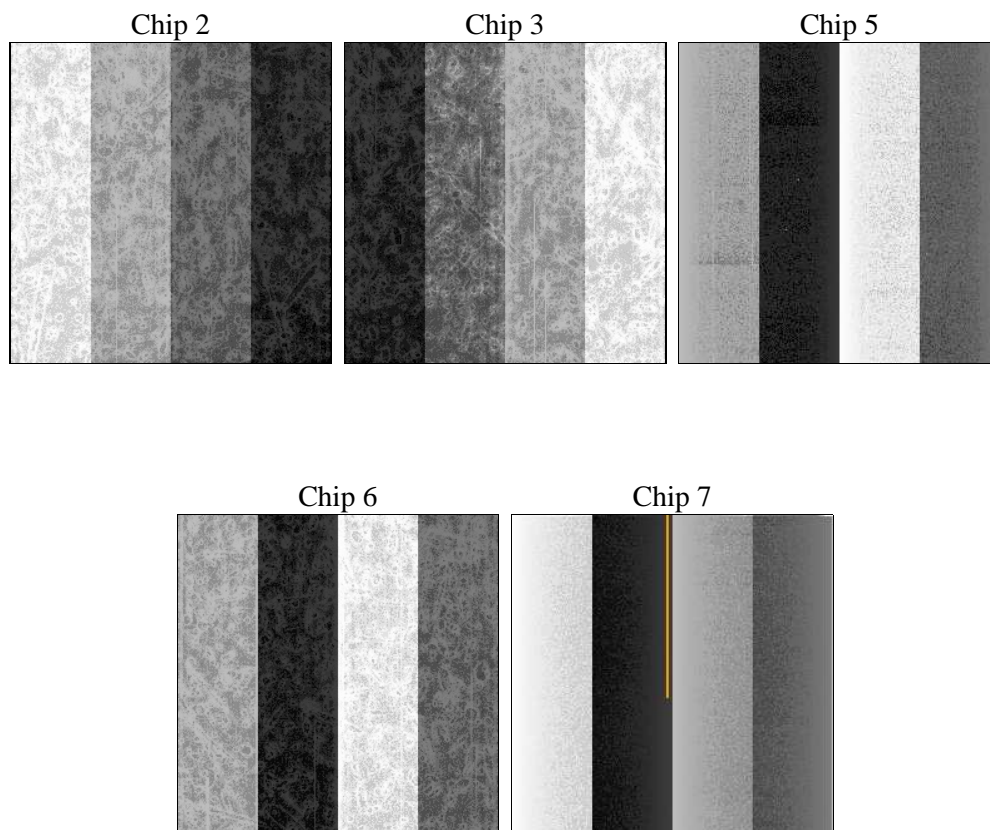
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 8000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 8171.6000628471 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime2 | 8168.4590426087 | Sum of GTIs [s] |
| date | 2012-05-05T22:02:16 | Date and time of file creation | ontime3 | 8171.6000628471 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 8171.6000628471 | Sum of GTIs [s] |
| | | | ontime6 | 8171.6000628471 | Sum of GTIs [s] |
| | | | ontime7 | 8171.6000628471 | Sum of GTIs [s] |
| | | | l1events | 526785 | Number of level 1 events |

2.1.4 Events

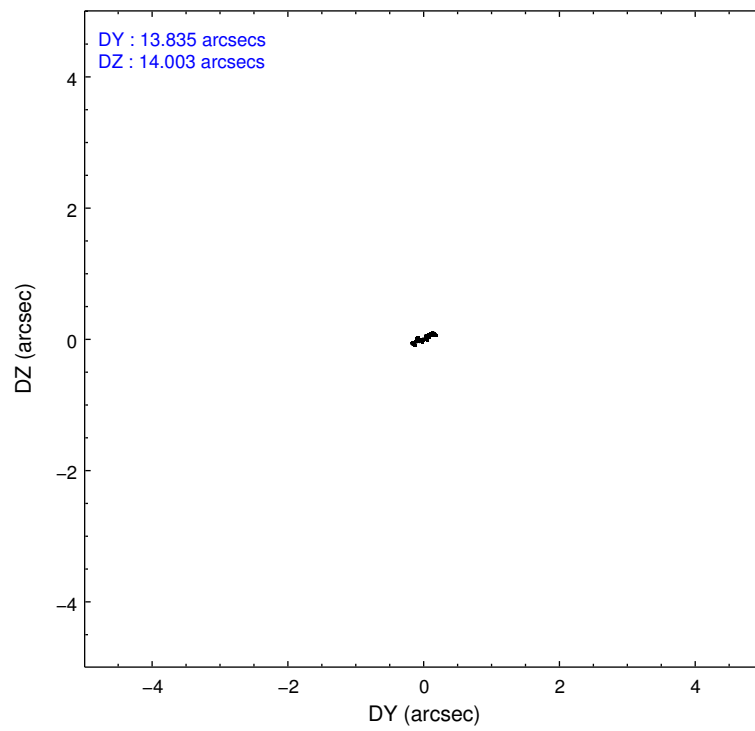
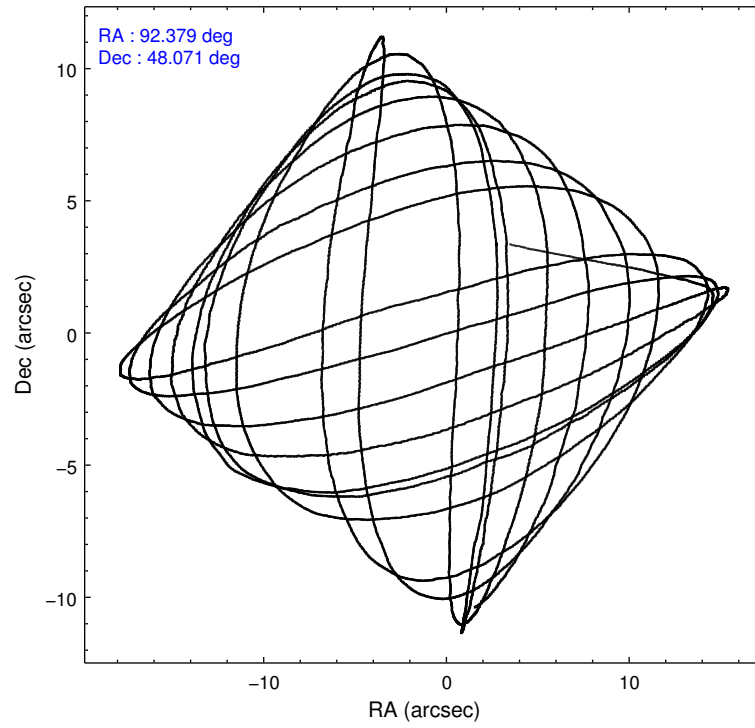
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 |
|-----------------|-------|-------|--------|-------|--------|
| level 1 events | 88075 | 85839 | 142269 | 89112 | 121490 |
| rejected events | 79122 | 76418 | 78422 | 79225 | 75745 |
| rejected % | 89% | 89% | 55% | 88% | 62% |

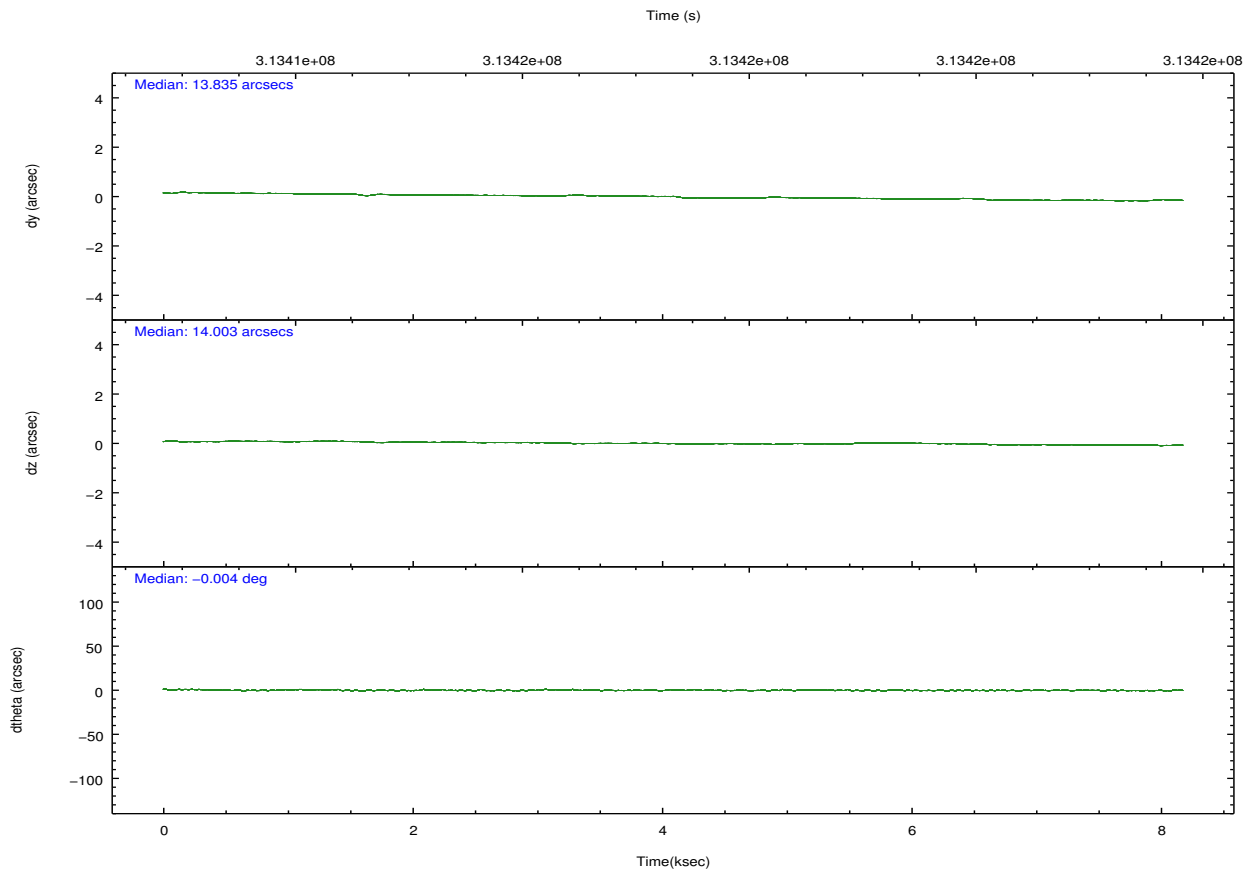
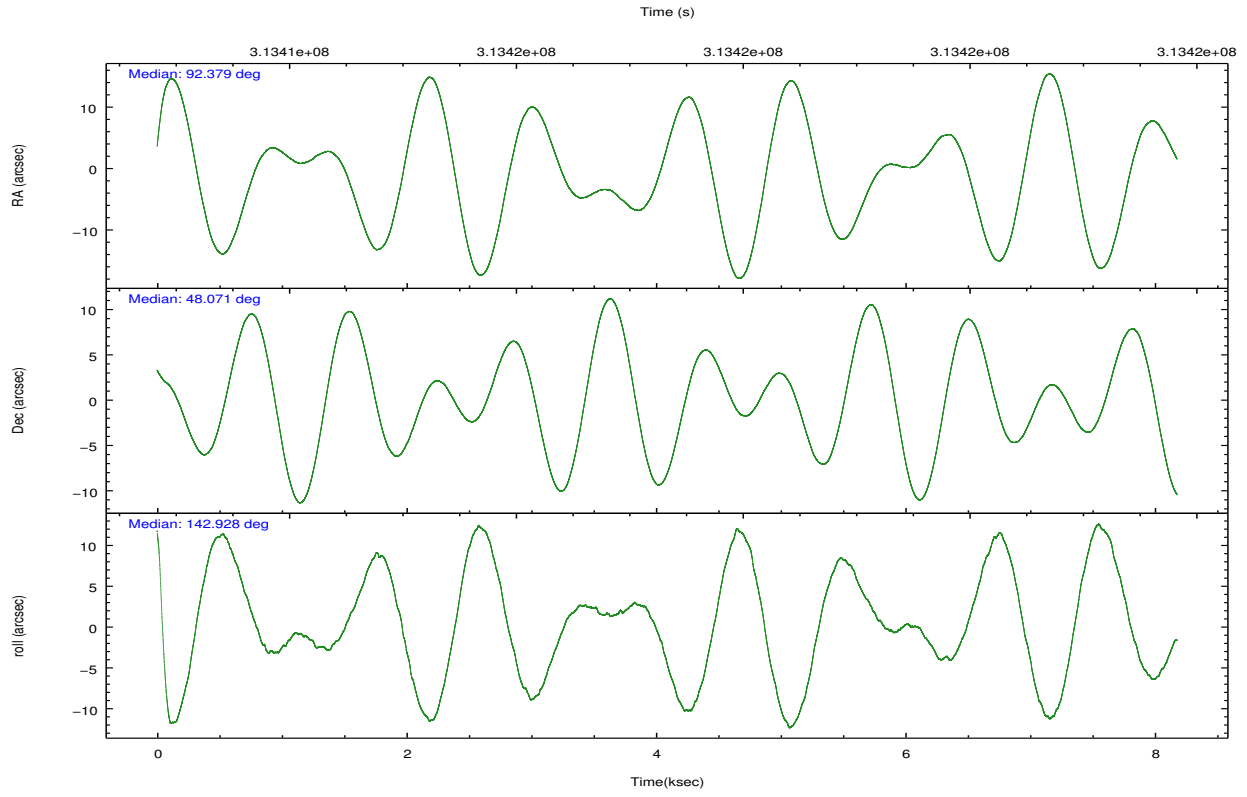
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 4057 | 4427 | 10352 | 4088 | 4206 |
| | 4% | 5% | 7% | 4% | 3% |
| grade 1 events | 52 | 72 | 627 | 27 | 101 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 2022 | 1964 | 20663 | 2363 | 10047 |
| | 2% | 2% | 14% | 2% | 8% |
| grade 3 events | 972 | 1006 | 2116 | 1009 | 4087 |
| | 1% | 1% | 1% | 1% | 3% |
| grade 4 events | 952 | 1014 | 2095 | 980 | 4097 |
| | 1% | 1% | 1% | 1% | 3% |
| grade 5 events | 3416 | 4078 | 9113 | 4089 | 11382 |
| | 3% | 4% | 6% | 4% | 9% |
| grade 6 events | 1678 | 1776 | 33576 | 2232 | 27000 |
| | 1% | 2% | 23% | 2% | 22% |
| grade 7 events | 74926 | 71502 | 63727 | 74324 | 60570 |
| | 85% | 83% | 44% | 83% | 49% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-23567 | ACIS-23567 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 92.419274 | 92.37866848522175 | CCD I2 on | Y | Y |
| [deg] Pointing Dec | 48.068463 | 48.07144491728633 | CCD I3 on | Y | Y |
| [deg] Pointing Roll | 142.748402 | 142.9352648031431 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | O1 | Y |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | Y | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | CCD S4 on | N | N |
| [s] Observation start time (MET) | 313413420.184000 | 313411950.4753 | CCD S5 on | N | N |
| Observation start date | 2007-12-07T11:15:55 | 2007-12-07T10:52:30 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 313421420.184000 | 313422322.9633 | On-chip summing requested | N | N |
| Observation end date | 2007-12-07T13:29:15 | 2007-12-07T13:45:22 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.1 |

2.3 Aspect



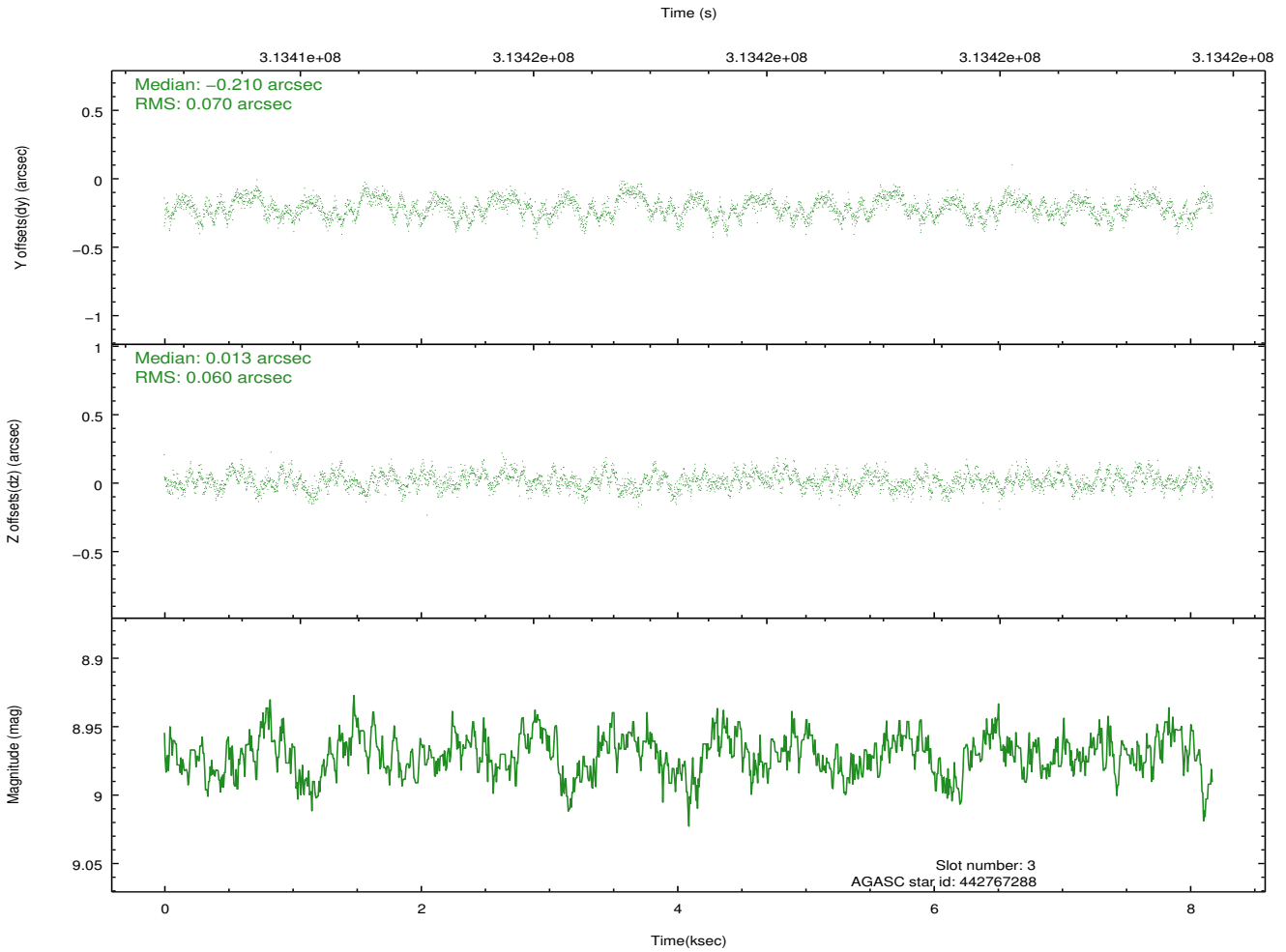
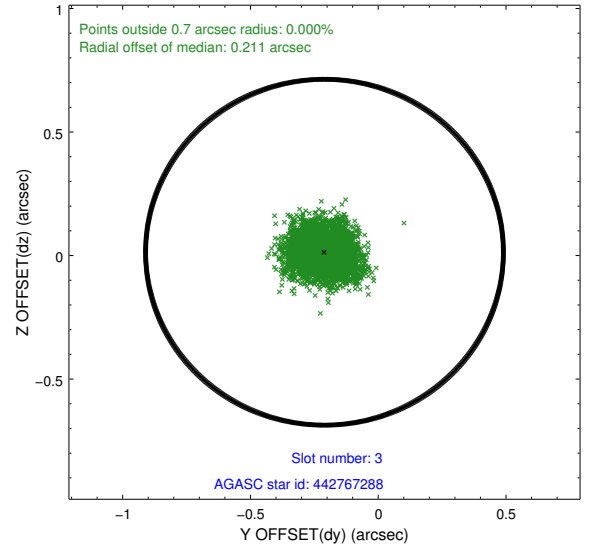
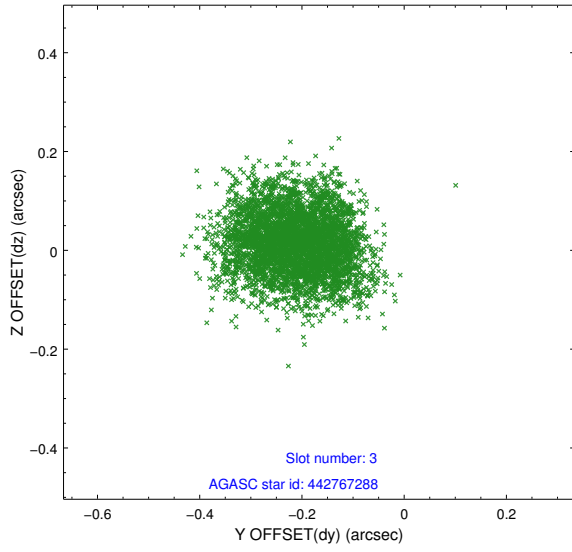


Slot Statistics

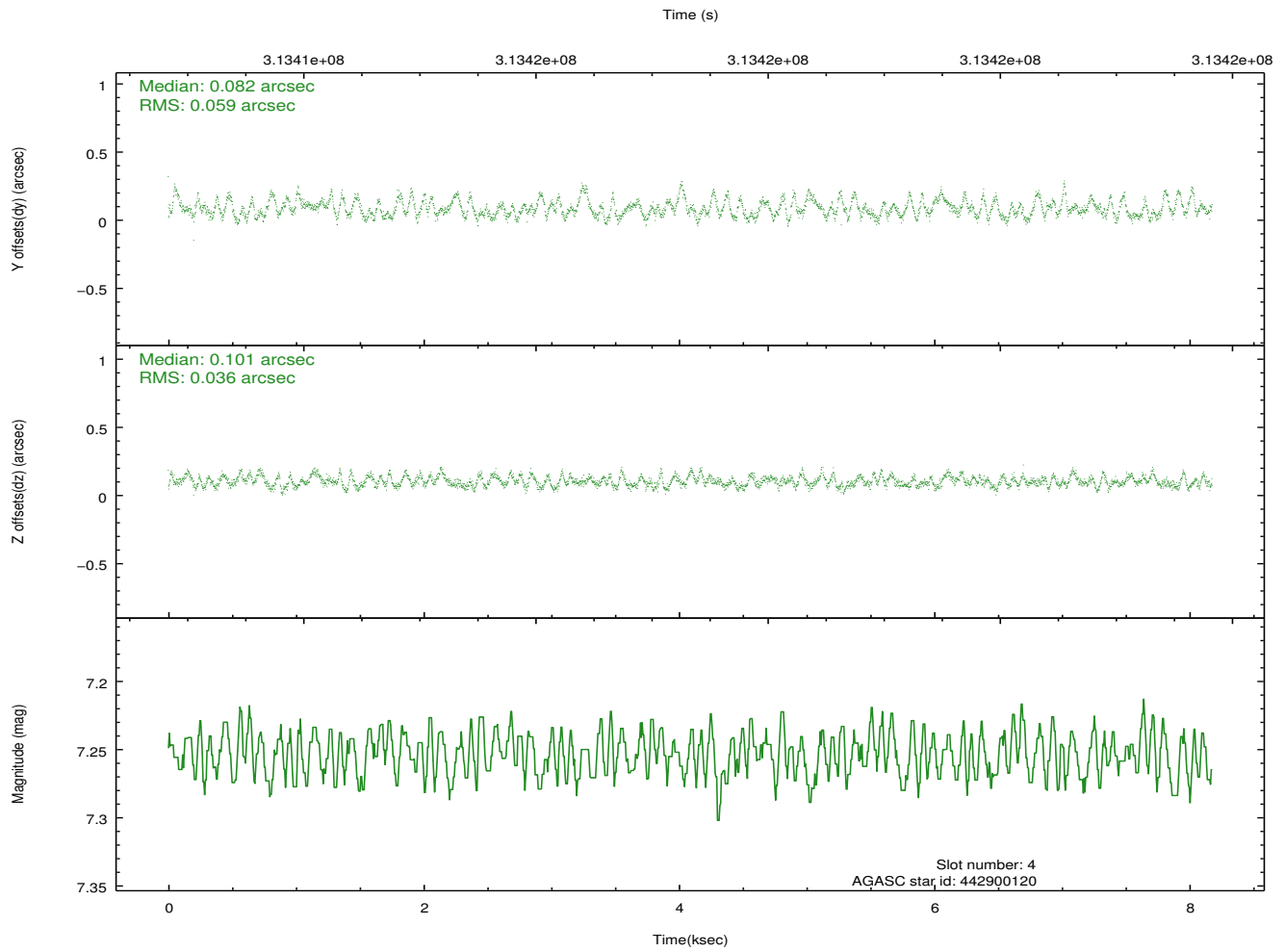
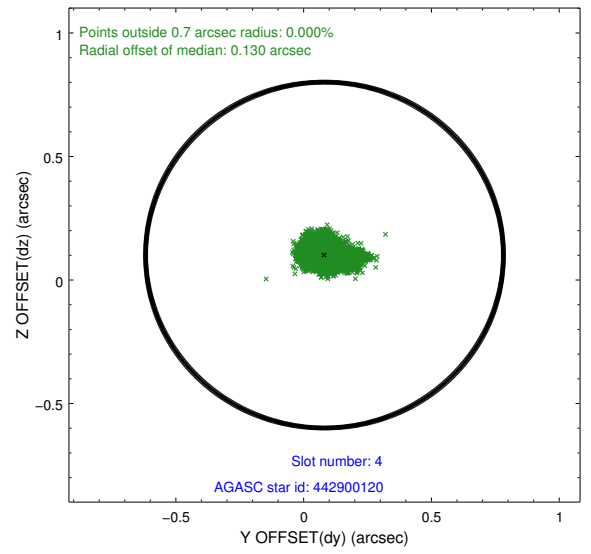
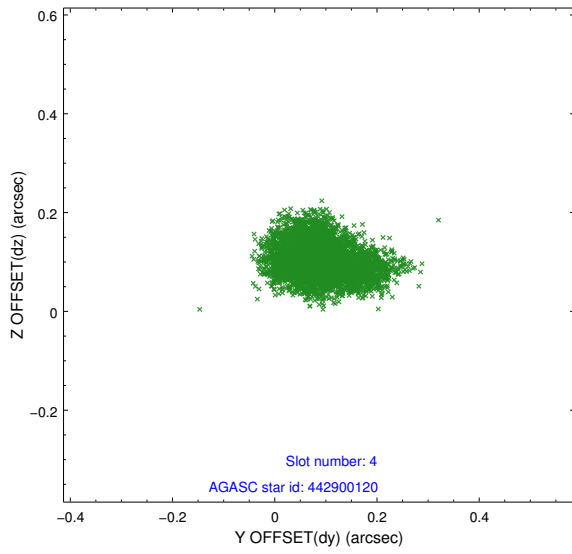
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 1993 | -0.114 | -0.073 | 0.008 | 0.014 | 0.000000 | 0.000000 | -766.89 | -1735.43 |
| 1 | FID | ACIS-S-4 | 7.19 | 1995 | 0.123 | 0.060 | 0.007 | 0.012 | 0.000000 | 0.000000 | 2146.33 | 172.45 |
| 2 | FID | ACIS-S-6 | 7.33 | 1995 | -0.037 | 0.020 | 0.007 | 0.012 | 0.000000 | 0.000000 | 396.07 | 810.60 |
| 3 | GUIDE | 442767288 | 8.97 | 3985 | -0.210 | 0.013 | 0.100 | 0.156 | 91.915714 | 47.712765 | 198.07 | 1754.80 |
| 4 | GUIDE | 442900120 | 7.25 | 3986 | 0.082 | 0.101 | 0.073 | 0.119 | 92.815904 | 47.906771 | -1112.35 | -117.06 |
| 5 | GUIDE | 442905176 | 8.48 | 3986 | 0.096 | 0.062 | 0.079 | 0.123 | 93.418715 | 48.042316 | -1962.00 | -1393.50 |
| 6 | GUIDE | 442764824 | 8.72 | 3989 | 0.010 | -0.335 | 0.094 | 0.142 | 91.650960 | 47.623094 | 518.56 | 2397.01 |
| 7 | GUIDE | 442894552 | 8.51 | 3984 | 0.018 | 0.150 | 0.090 | 0.146 | 93.299923 | 48.467764 | -795.06 | -2425.23 |

2.4 Star Slots

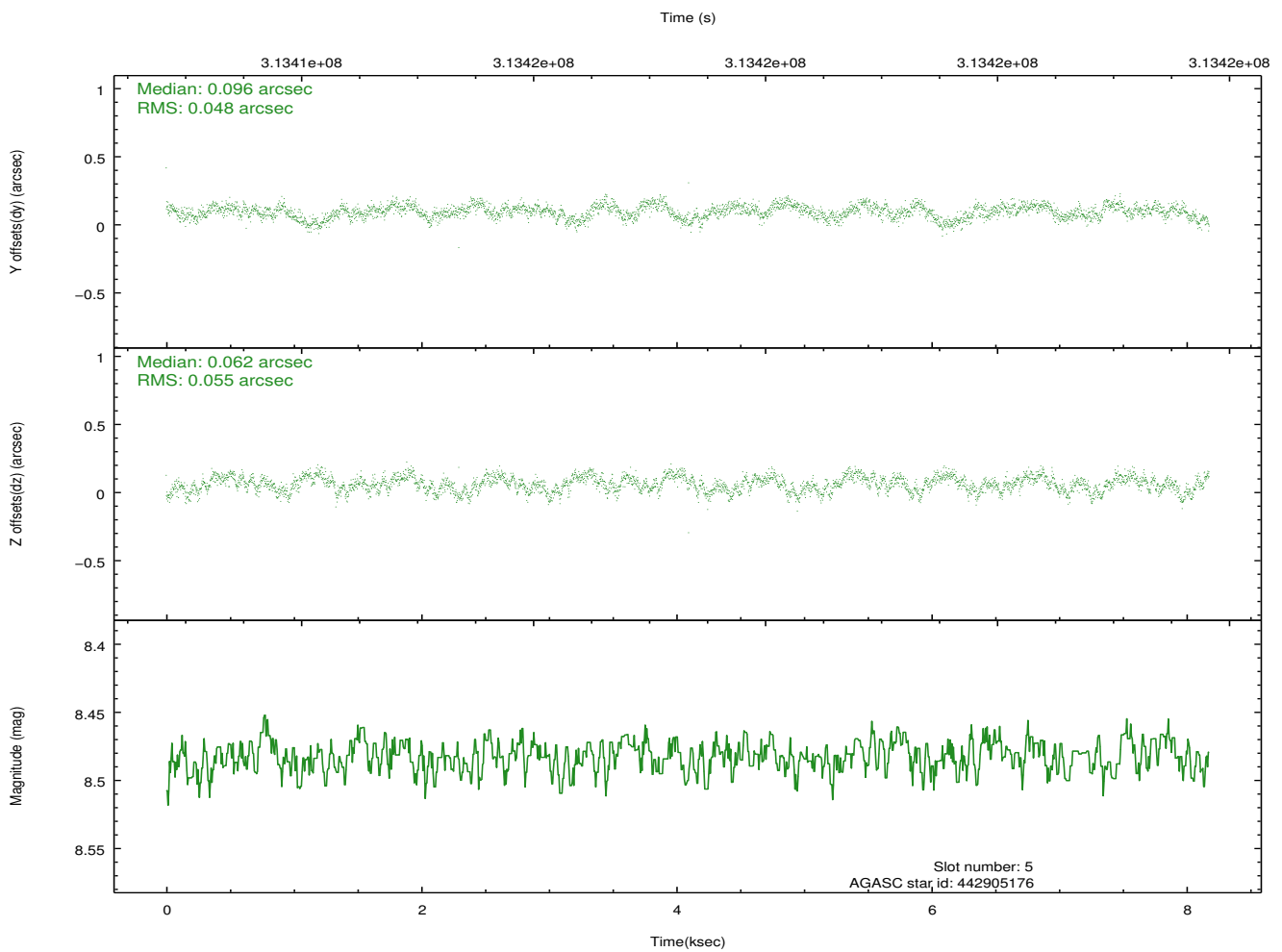
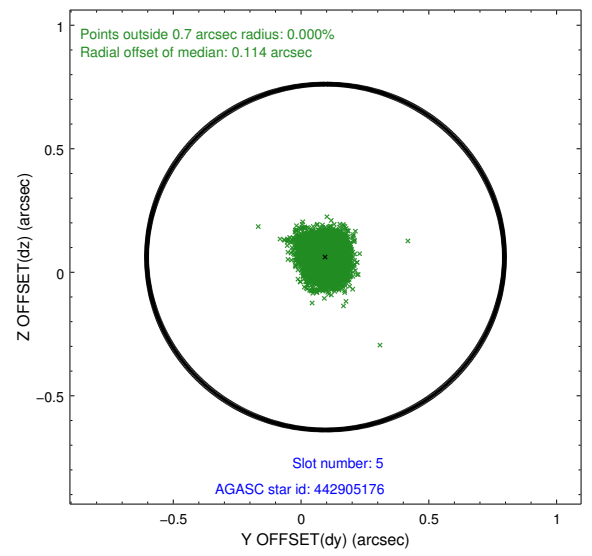
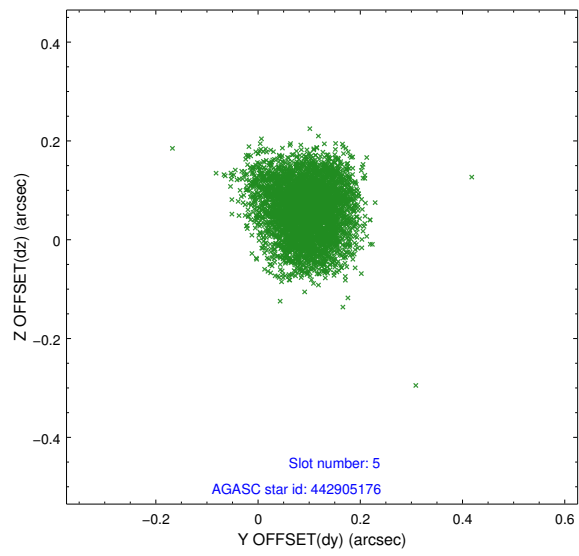
2.4.1 Slot 3



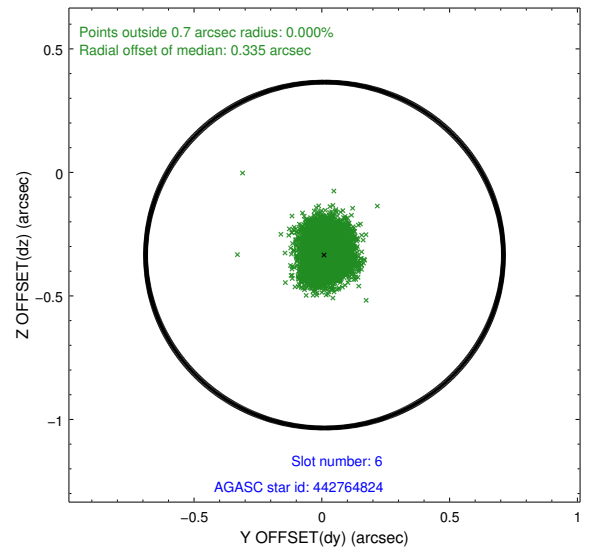
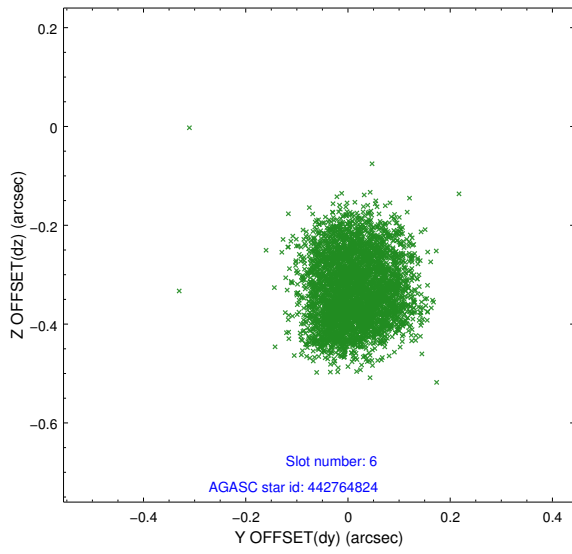
2.4.2 Slot 4



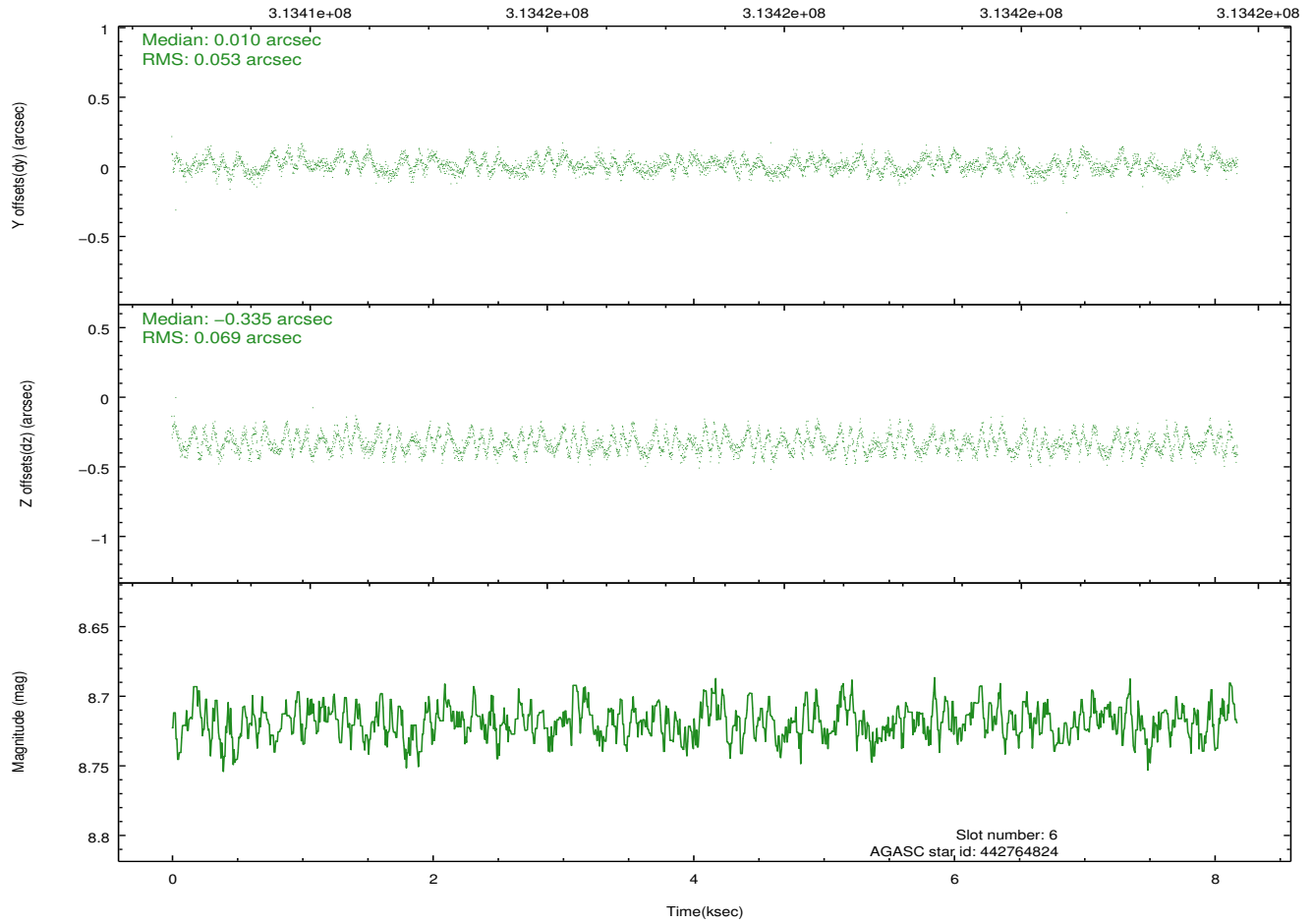
2.4.3 Slot 5



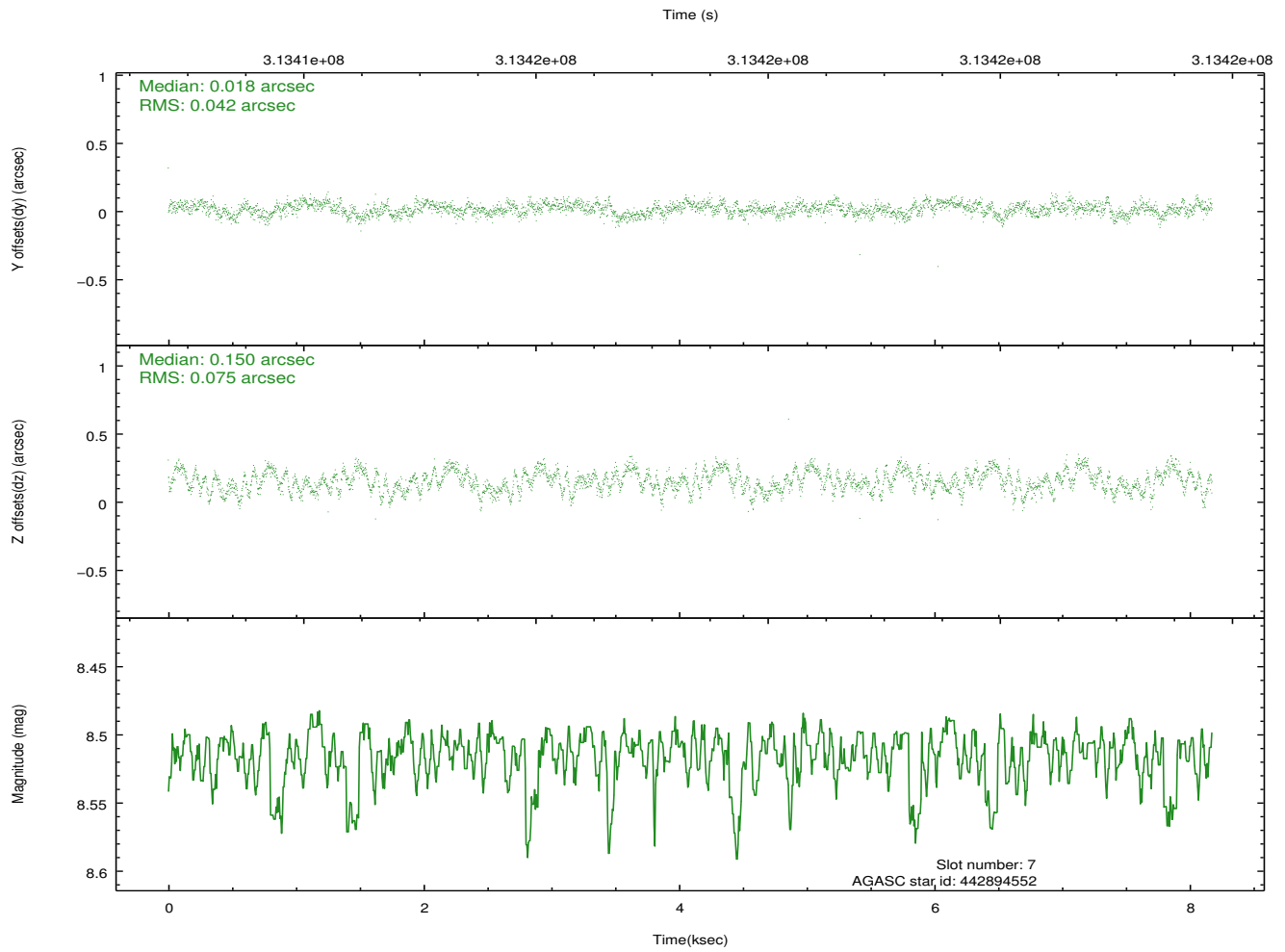
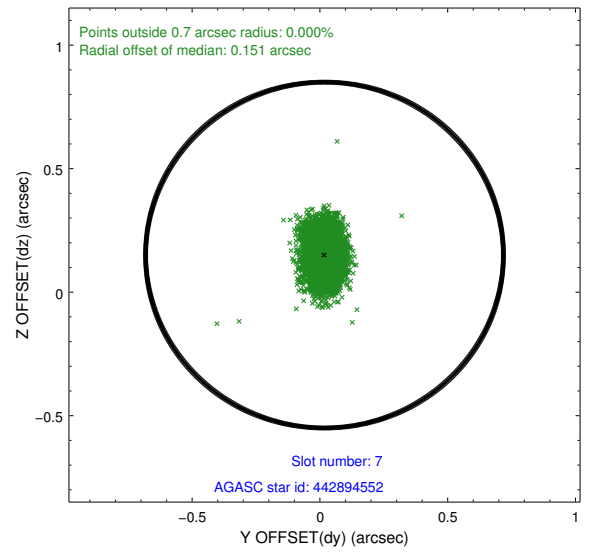
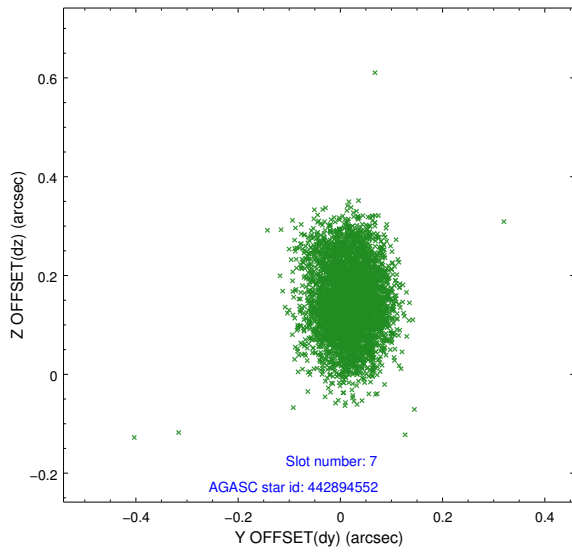
2.4.4 Slot 6



Time (s)

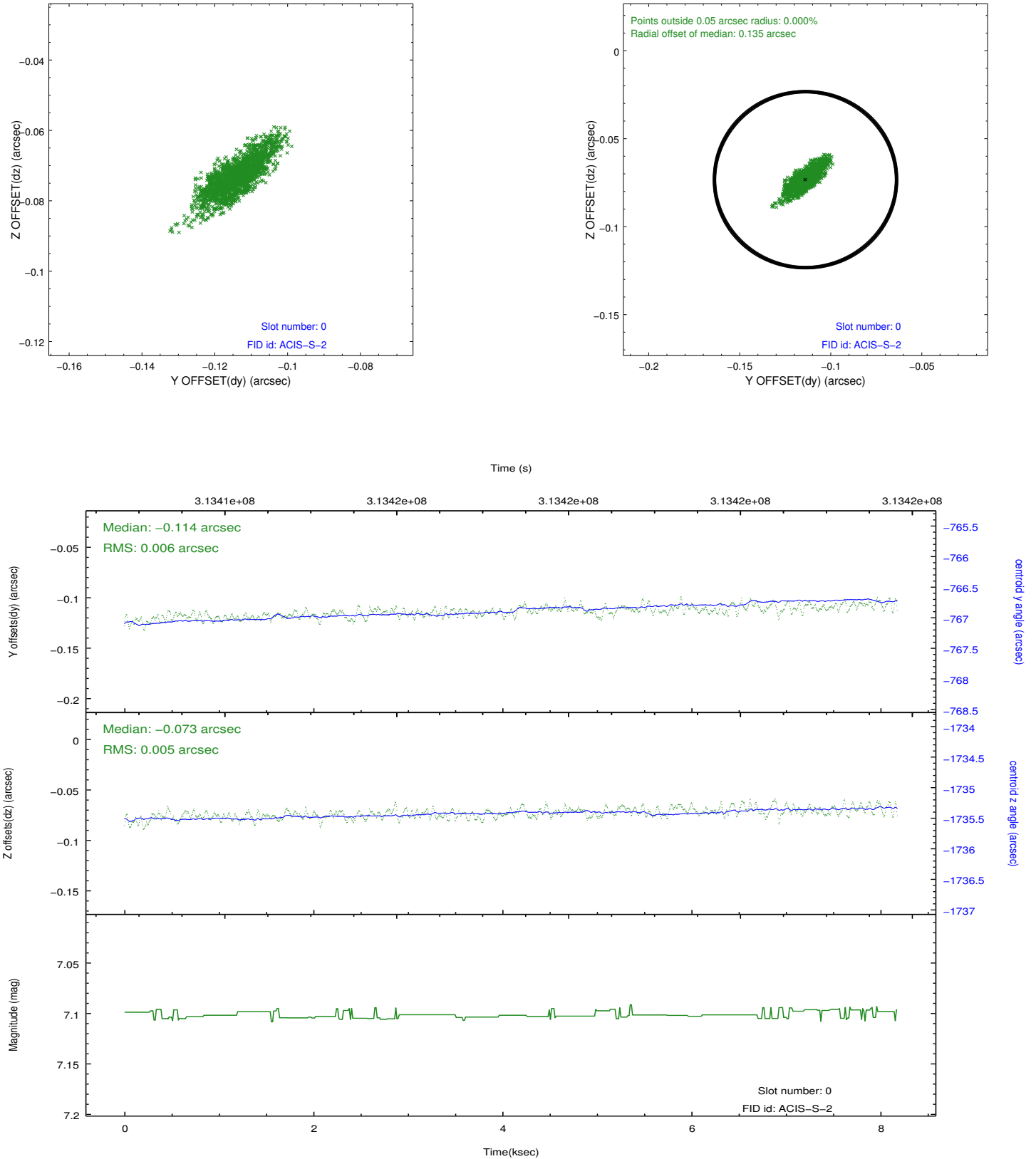


2.4.5 Slot 7

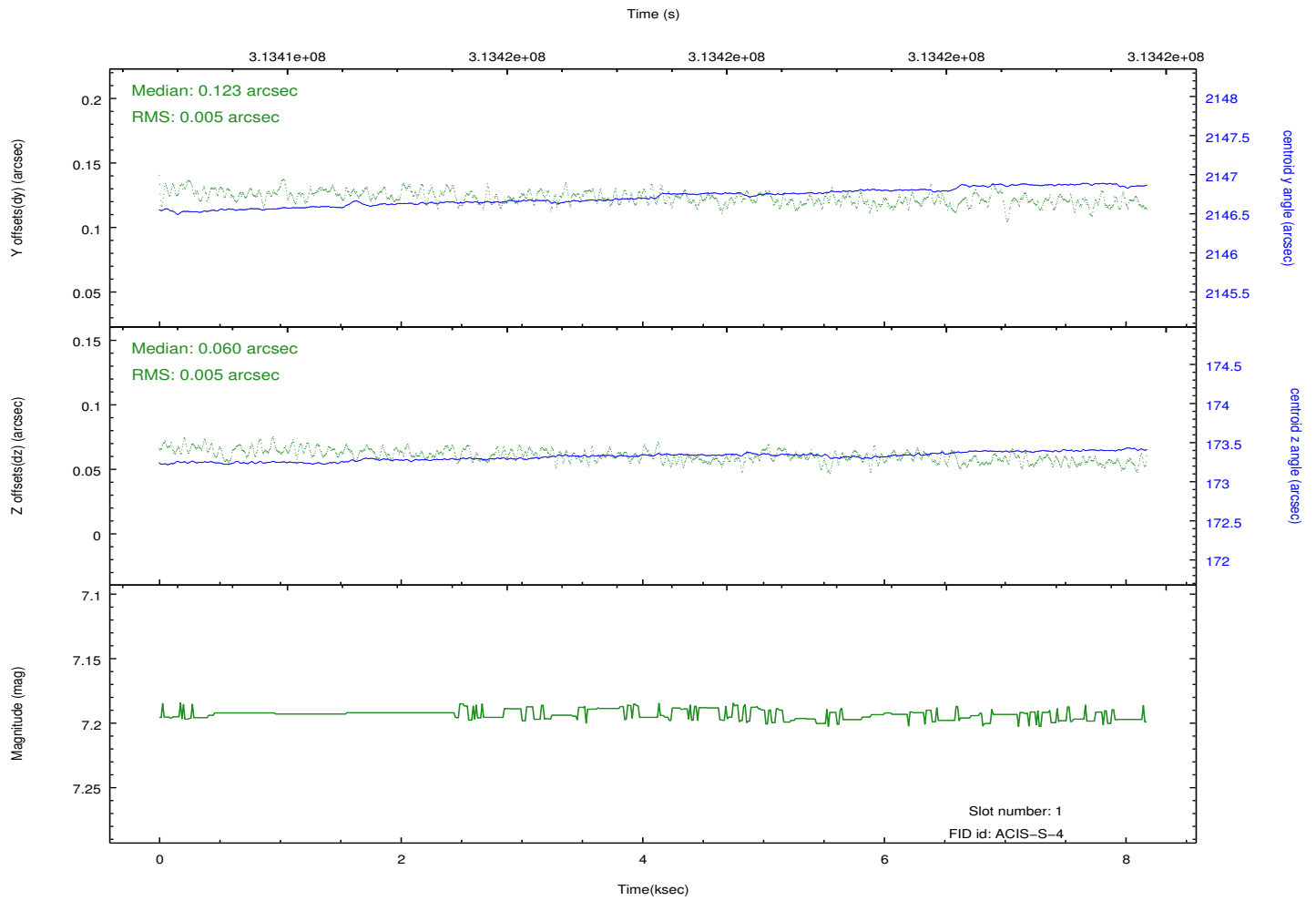
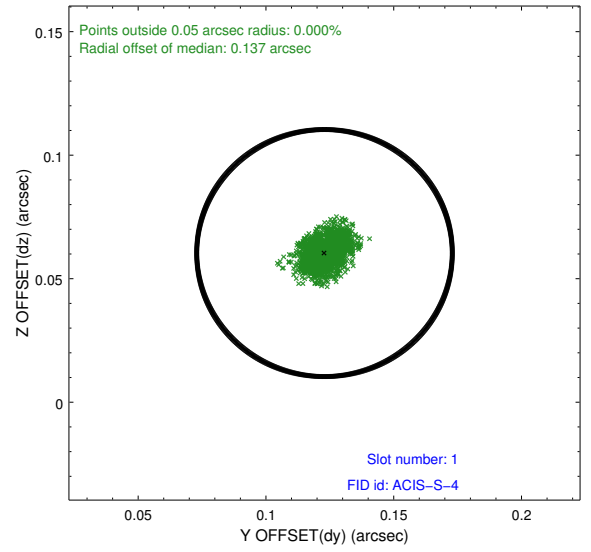
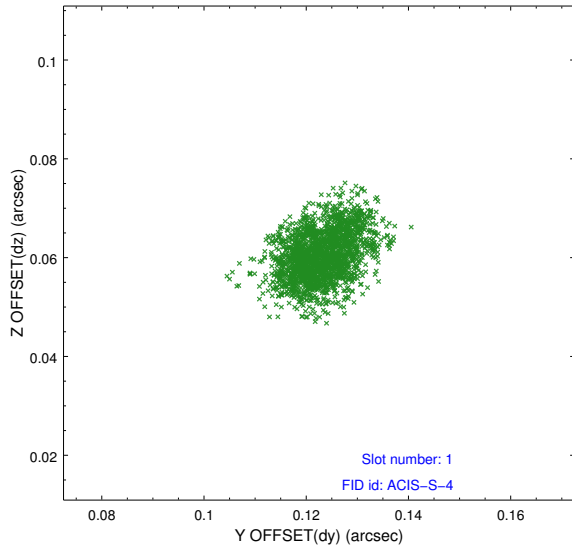


2.5 FID Slots

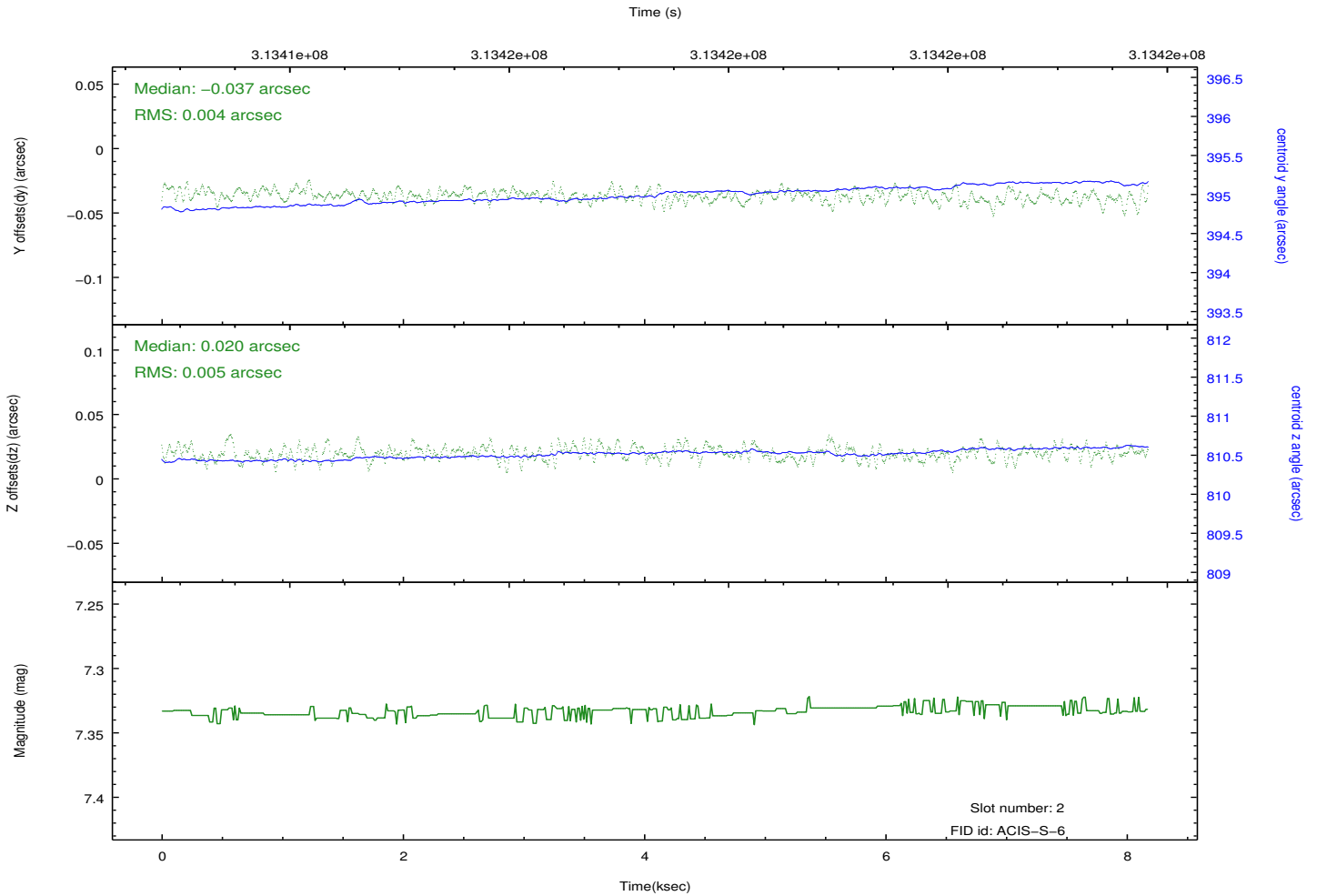
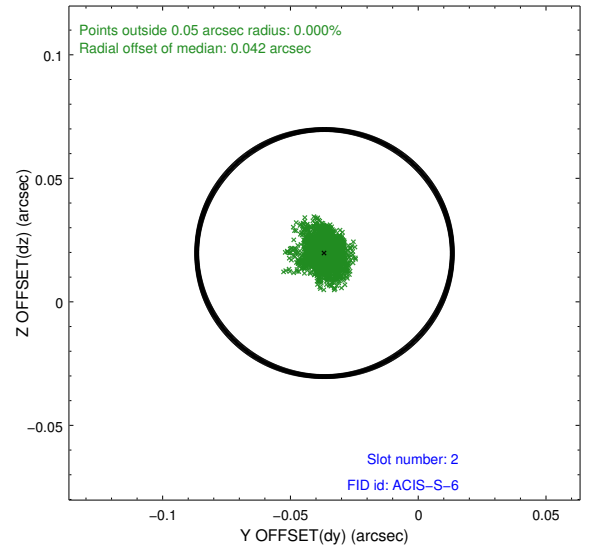
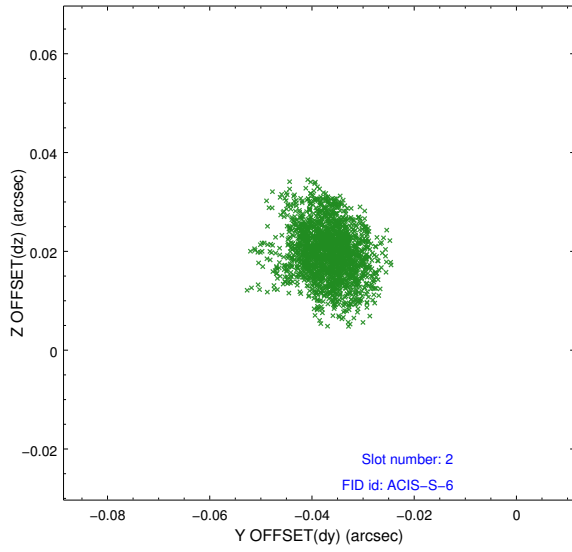
2.5.1 Slot 0



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) | 2012.05.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.17160006 |

A.2 Comments