

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4067 - L2 Version 3
Chandra X-Ray Center

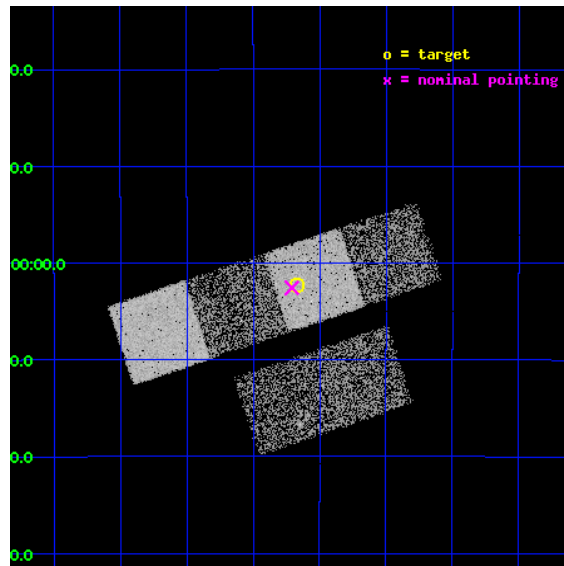
L2 Processing Date : Oct 19 2012

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1 Front

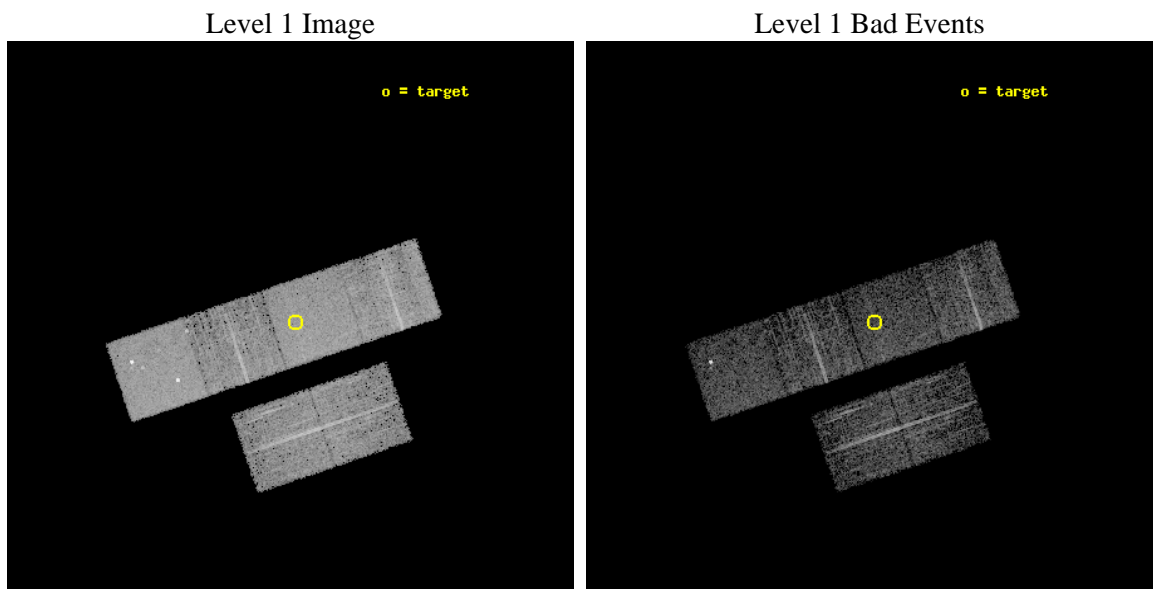
| | | |
|----------|--|---|
| seq_num | 700746 | Sequence number |
| obs_id | 4067 | Observation id |
| title | A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT $Z>4$ | Proposal titl |
| observer | Dr Cristian Vignali | Principal investigator |
| object | BR 0424-2209 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 66.542917 | Observer's specified target RA [deg] |
| dec_targ | -22.038222 | Observer's specified target Dec [deg] |
| ra_nom | 66.552127178767 | Nominal RA [deg] |
| dec_nom | -22.04293809452 | Nominal Dec [deg] |
| roll_nom | 341.36136824104 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4729.5999823809 | Sum of GTIs [s] |
| livetime | 4669.7109395808 | Livetime [s] |
| ontime2 | 4729.5999823809 | Sum of GTIs [s] |
| ontime3 | 4729.5999823809 | Sum of GTIs [s] |
| ontime5 | 4729.5999823809 | Sum of GTIs [s] |
| ontime6 | 4729.5999823809 | Sum of GTIs [s] |
| ontime7 | 4729.5999823809 | Sum of GTIs [s] |
| ontime8 | 4729.5999823809 | Sum of GTIs [s] |
| l2events | 46092 | Number of level 2 events |



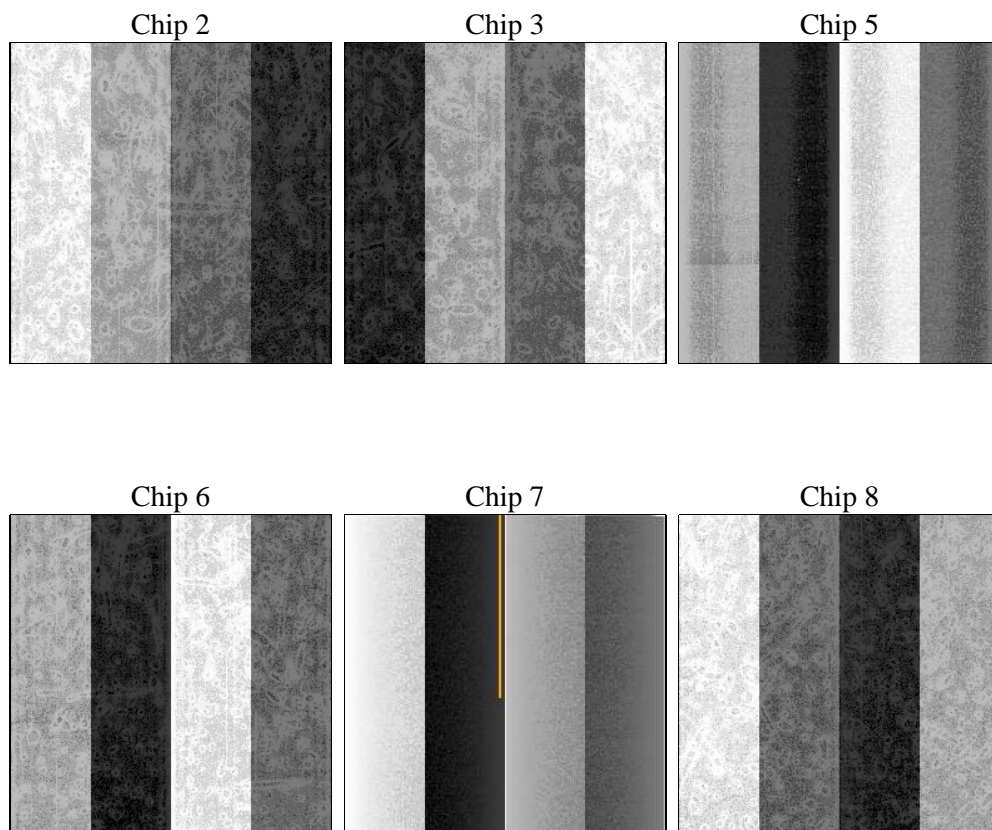
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 4701.338000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 4729.5999823809 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime2 | 4729.5999823809 | Sum of GTIs [s] |
| date | 2012-10-19T05:16:26 | Date and time of file creation | ontime3 | 4729.5999823809 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime5 | 4729.5999823809 | Sum of GTIs [s] |
| | | | ontime6 | 4729.5999823809 | Sum of GTIs [s] |
| | | | ontime7 | 4729.5999823809 | Sum of GTIs [s] |
| | | | ontime8 | 4729.5999823809 | Sum of GTIs [s] |
| | | | l1events | 210474 | Number of level 1 events |

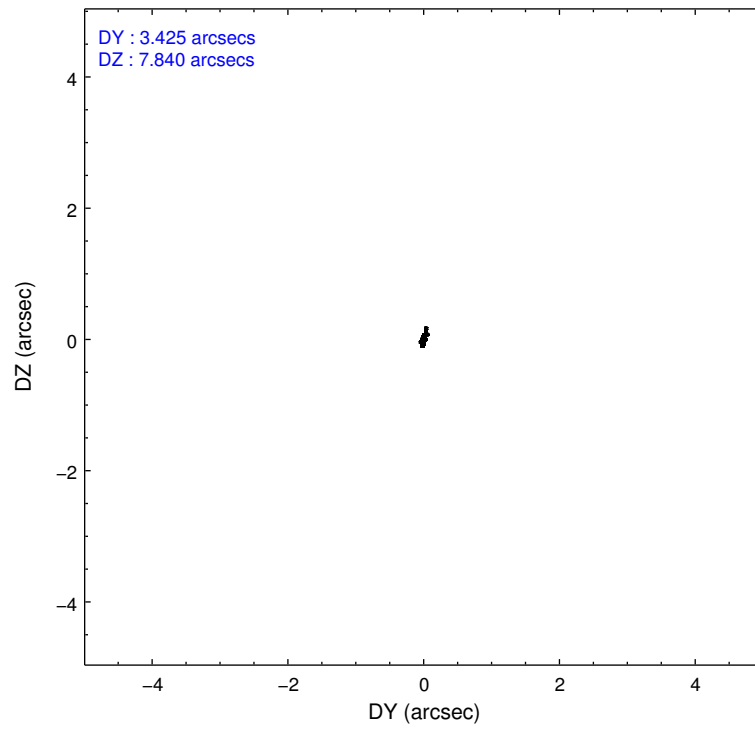
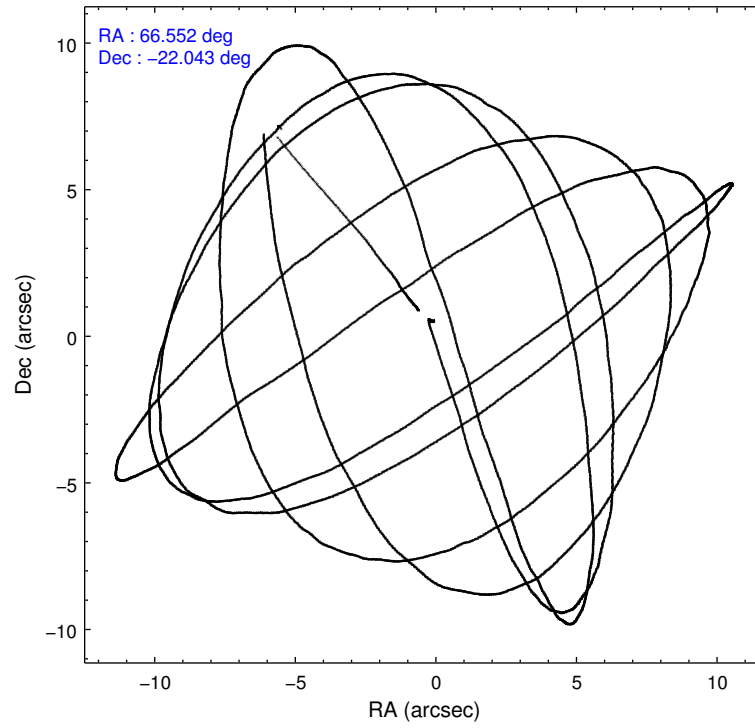
2.1.4 Events

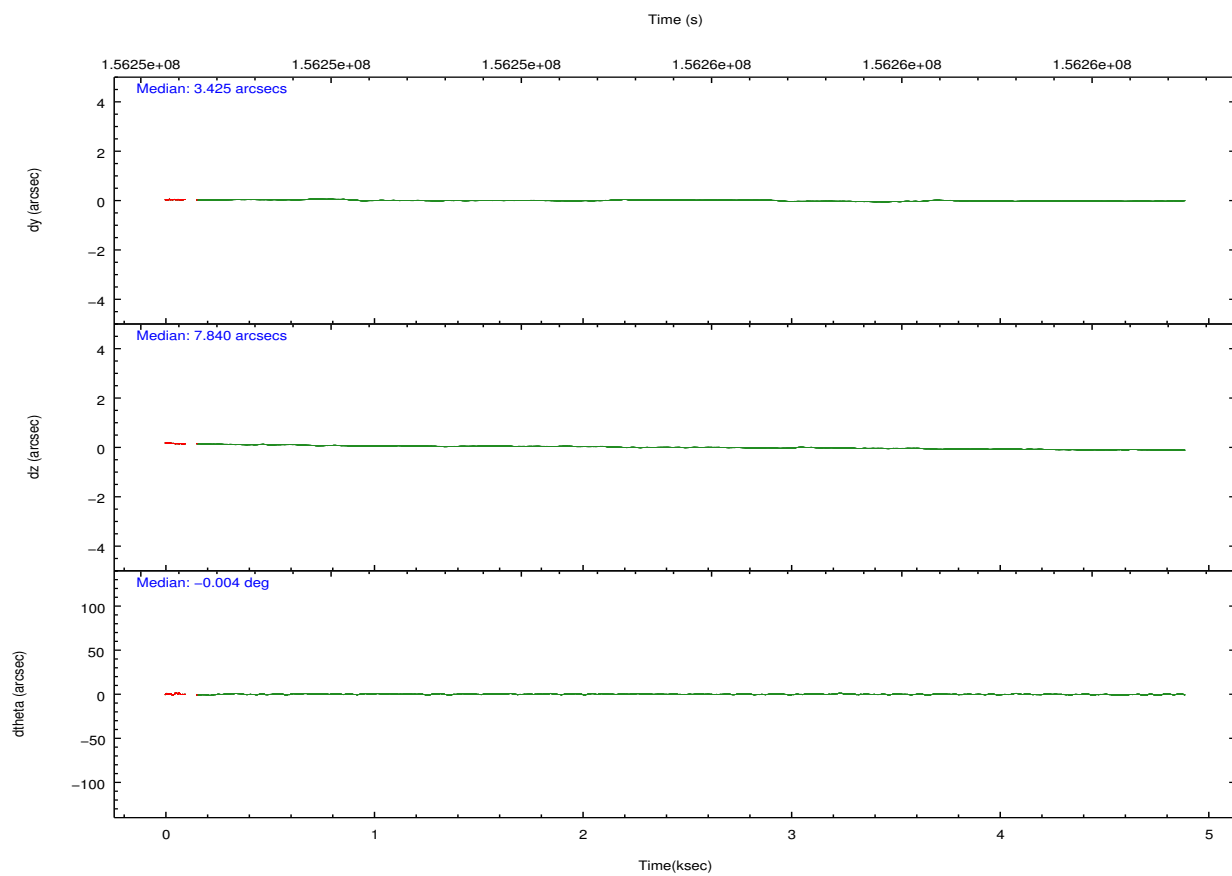
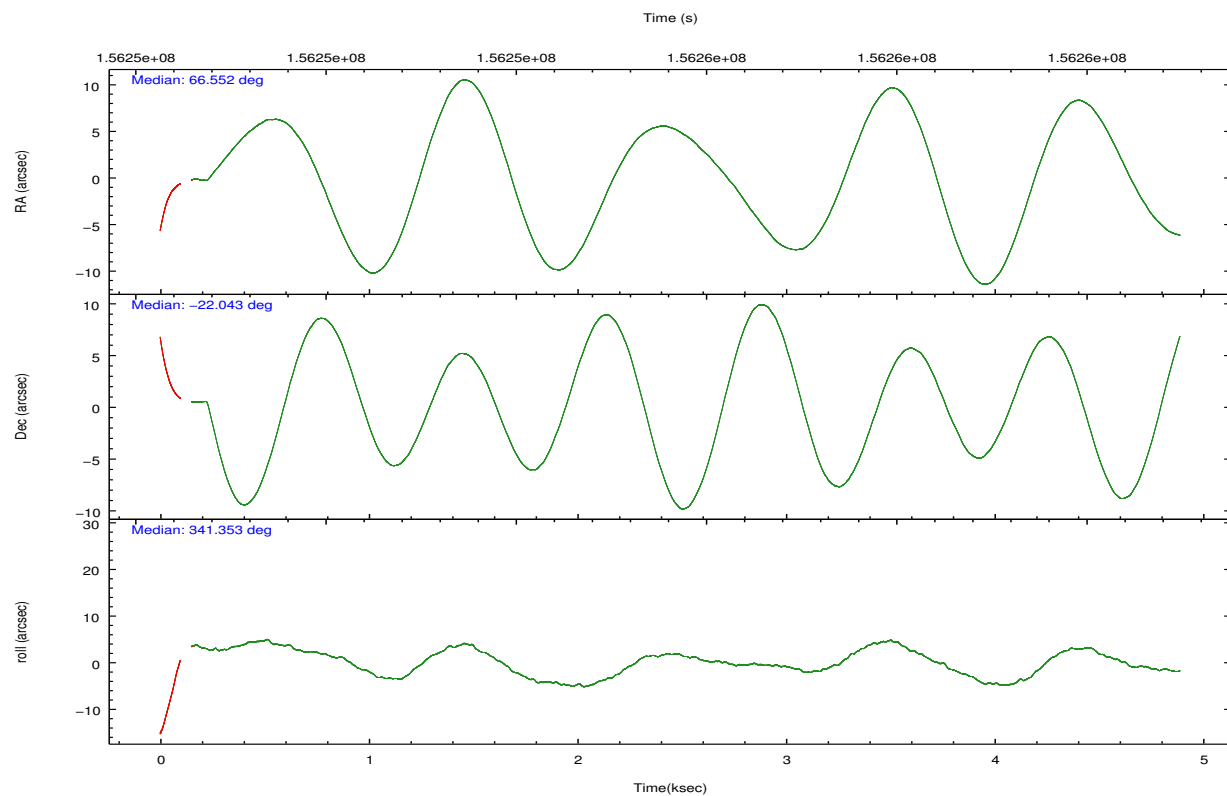
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 30031 | 28223 | 45079 | 30076 | 38979 | 38086 | grade 0 events | 1573 | 1534 | 2945 | 1562 | 1530 | 2830 |
| rejected events | 26554 | 24738 | 24610 | 26426 | 22920 | 29575 | | 5% | 5% | 6% | 5% | 3% | 7% |
| rejected % | 88% | 87% | 54% | 87% | 58% | 77% | grade 1 events | 18 | 23 | 89 | 11 | 40 | 24 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 707 | 661 | 6155 | 729 | 3189 | 1756 |
| | | | | | | | | 2% | 2% | 13% | 2% | 8% | 4% |
| | | | | | | | grade 3 events | 340 | 346 | 778 | 362 | 1456 | 994 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 4 events | 325 | 373 | 756 | 331 | 1510 | 927 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 5 events | 1096 | 1268 | 3800 | 1286 | 3771 | 1705 |
| | | | | | | | | 3% | 4% | 8% | 4% | 9% | 4% |
| | | | | | | | grade 6 events | 579 | 626 | 10103 | 717 | 8609 | 2100 |
| | | | | | | | | 1% | 2% | 22% | 2% | 22% | 5% |
| | | | | | | | grade 7 events | 25393 | 23392 | 20453 | 25078 | 18874 | 27750 |
| | | | | | | | | 84% | 82% | 45% | 83% | 48% | 72% |

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 | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 66.523347 | 66.55212717876653 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -22.048593 | -22.04293809451987 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 341.193978 | 341.361368241036 | [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) | 156252552.184000 | 156251527.46652 | | | |
| Observation start date | 2002-12-14T11:28:08 | 2002-12-14T11:12:07 | | | |
| [s] Observation end time (MET) | 156257253.184000 | 156257567.79178 | | | |
| Observation end date | 2002-12-14T12:46:29 | 2002-12-14T12:52:47 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



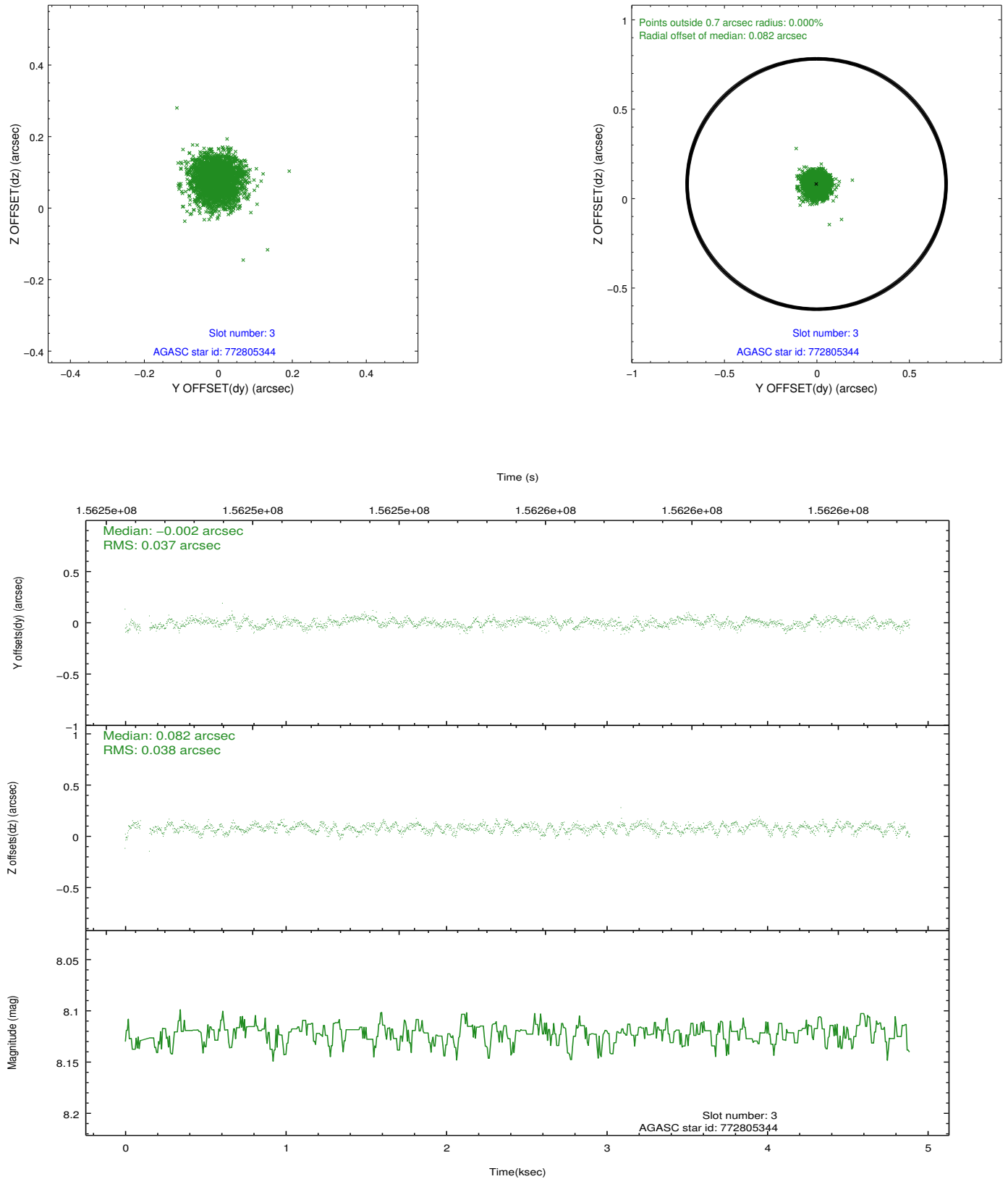


Slot Statistics

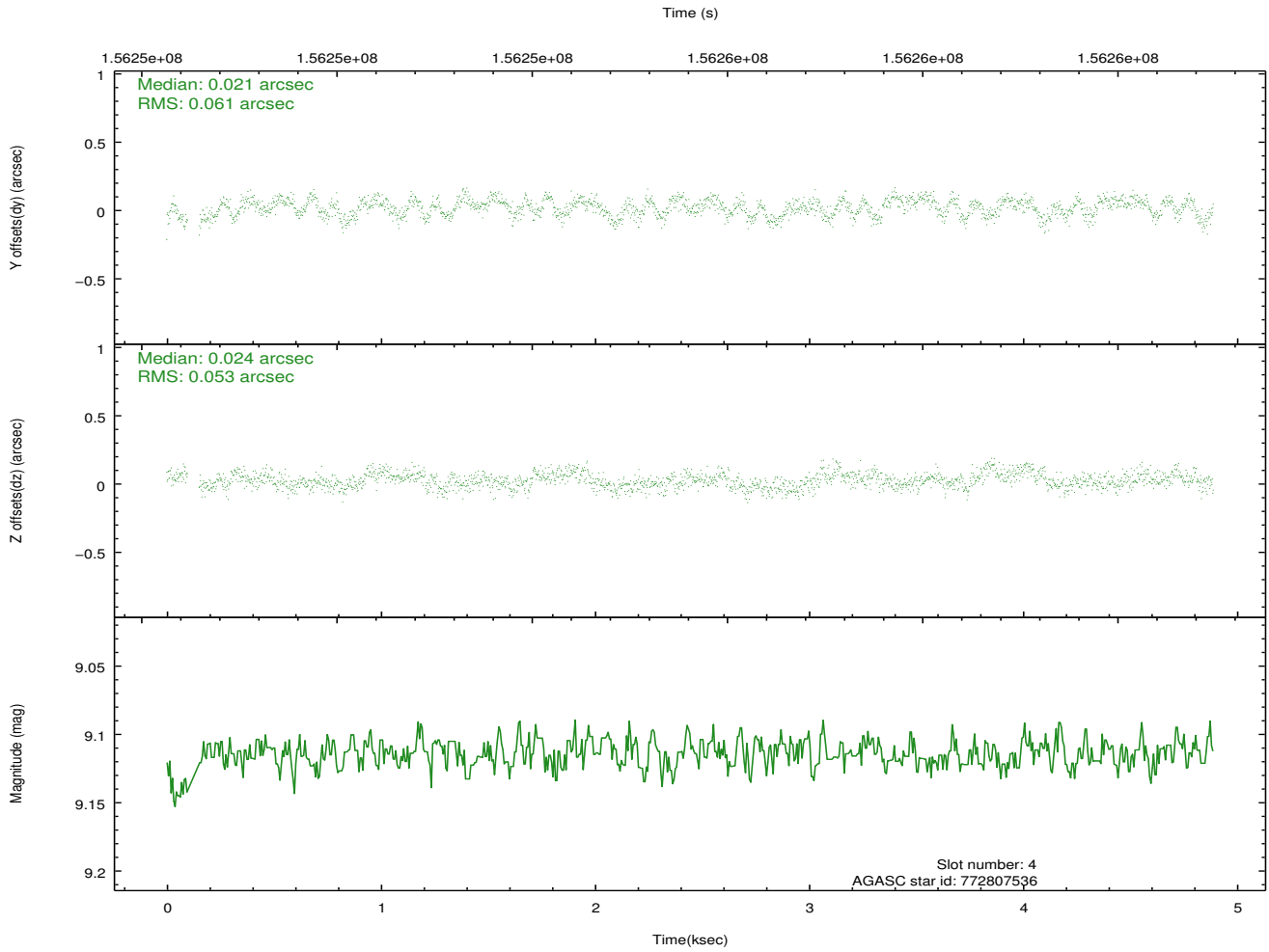
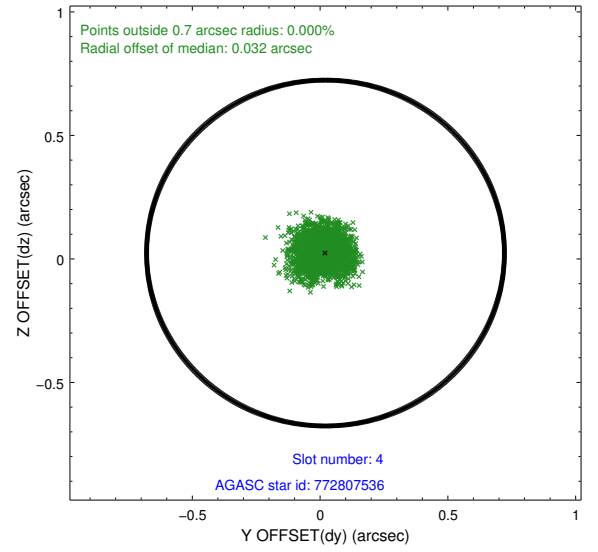
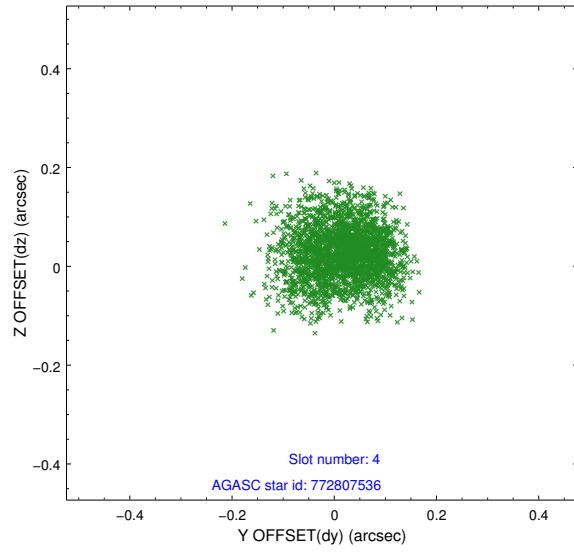
| | | | | | | | |
|--|--------|-----------|------|-------|--------|--------|-------|
| | status | id | mag | n_pts | med_dy | med_dz | drl |
| | FID | ACIS-S-2 | 7.11 | 1180 | -0.003 | 0.002 | 0.007 |
| | FID | ACIS-S-4 | 7.21 | 1180 | -0.010 | 0.001 | 0.006 |
| | FID | ACIS-S-5 | 7.24 | 1180 | -0.018 | 0.005 | 0.006 |
| | GUIDE | 772805344 | 8.12 | 2359 | -0.002 | 0.082 | 0.057 |
| | GUIDE | 772807536 | 9.11 | 2358 | 0.021 | 0.024 | 0.087 |
| | GUIDE | 772944904 | 9.12 | 2356 | -0.054 | -0.126 | 0.087 |
| | GUIDE | 846349976 | 9.48 | 2359 | 0.035 | 0.024 | 0.098 |
| 0.0000.0000.0000.0000000.00000000.000.00 | | | | | | | |

2.4 Star Slots

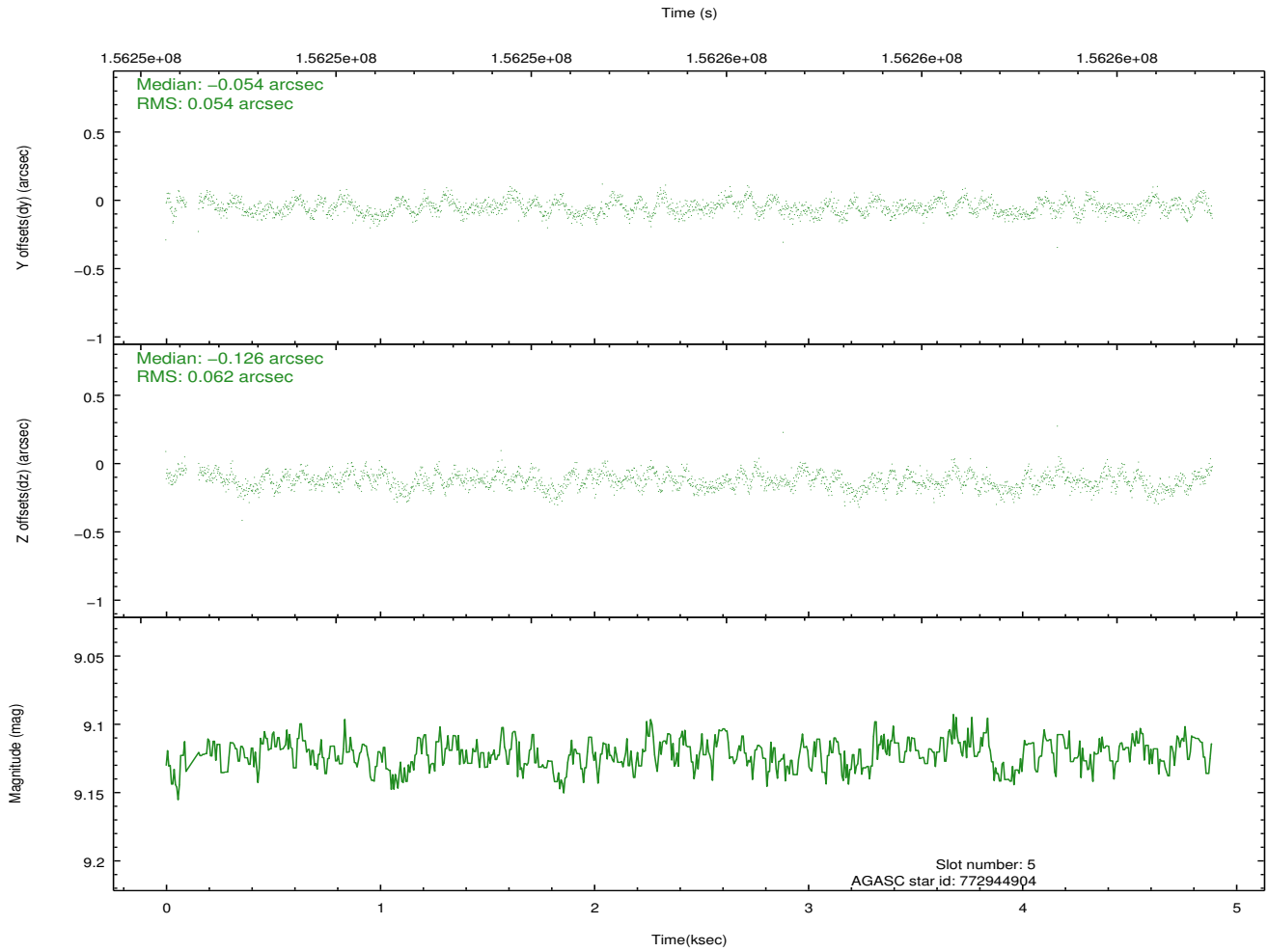
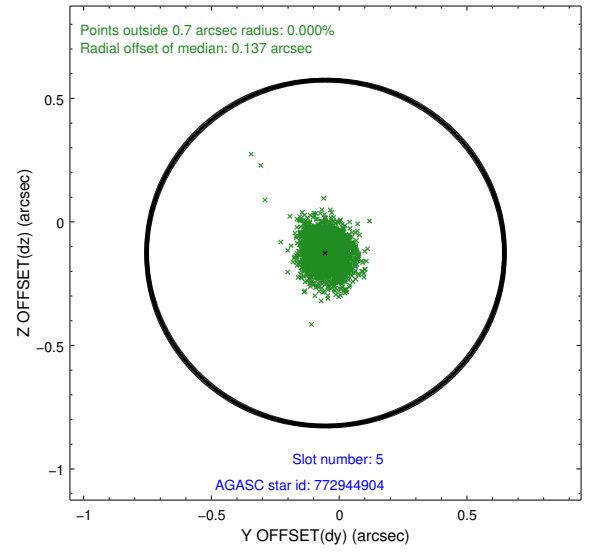
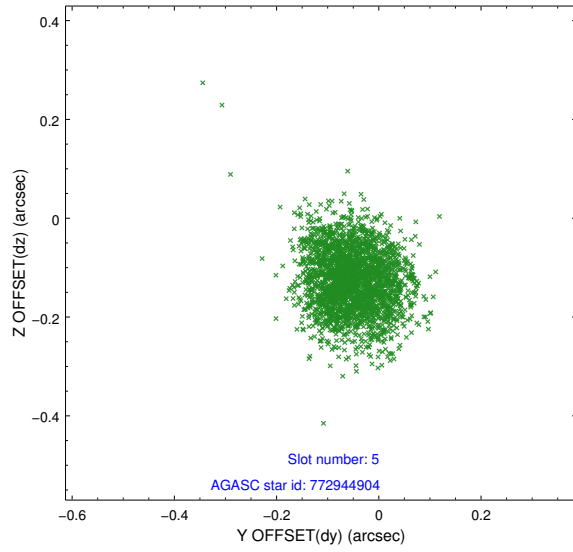
2.4.1 Slot 3



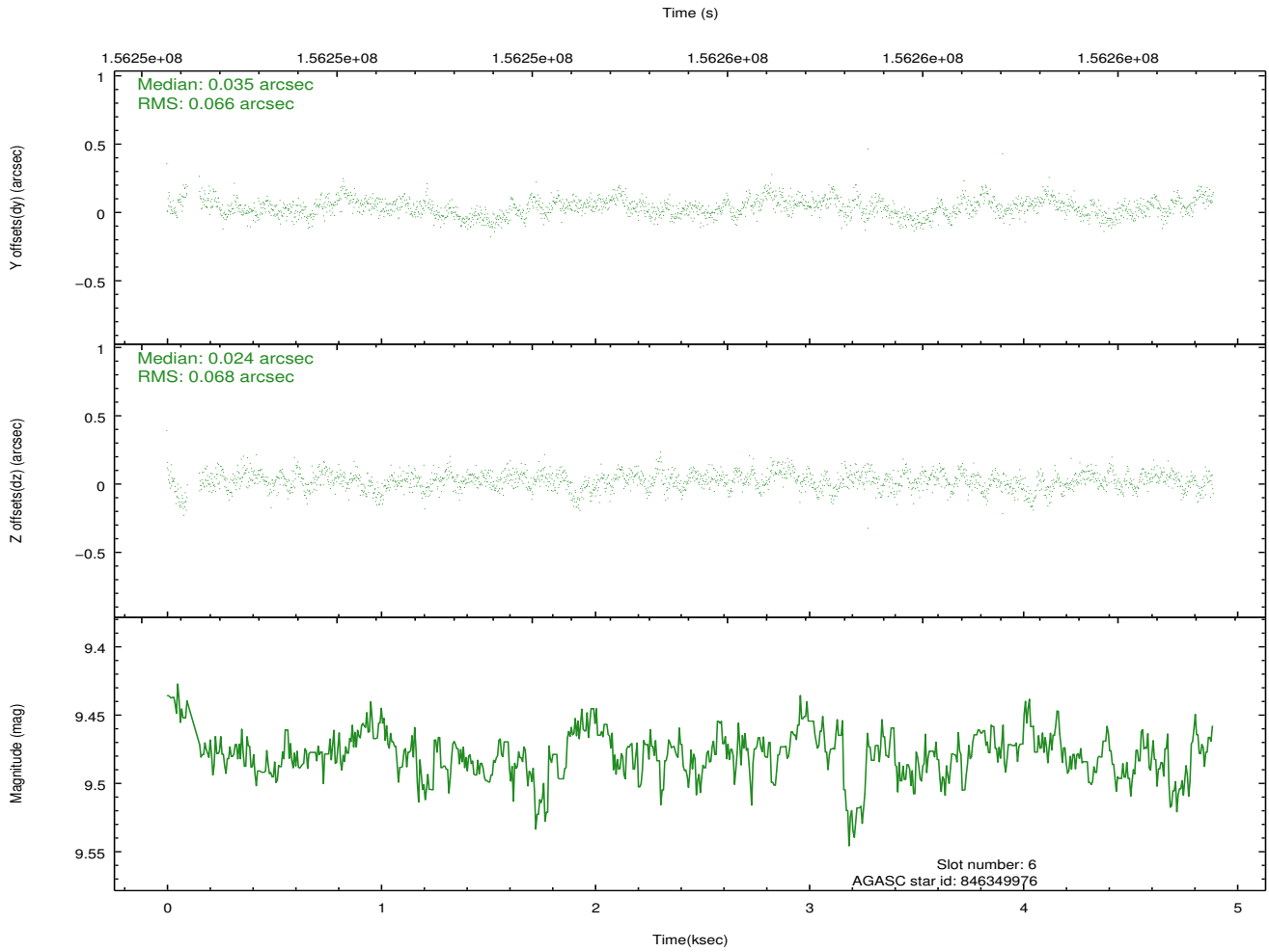
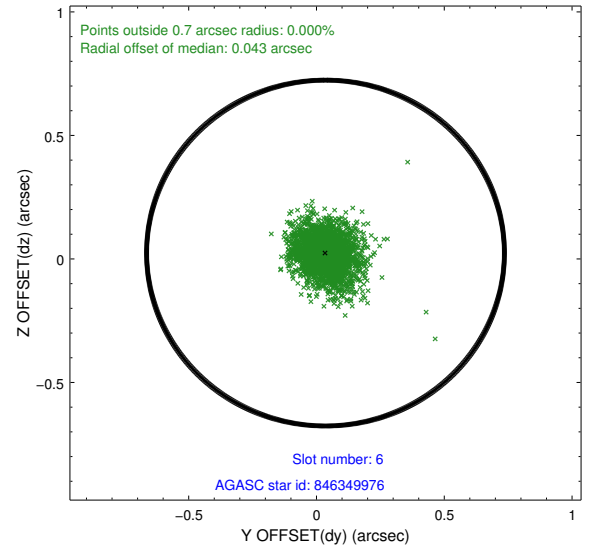
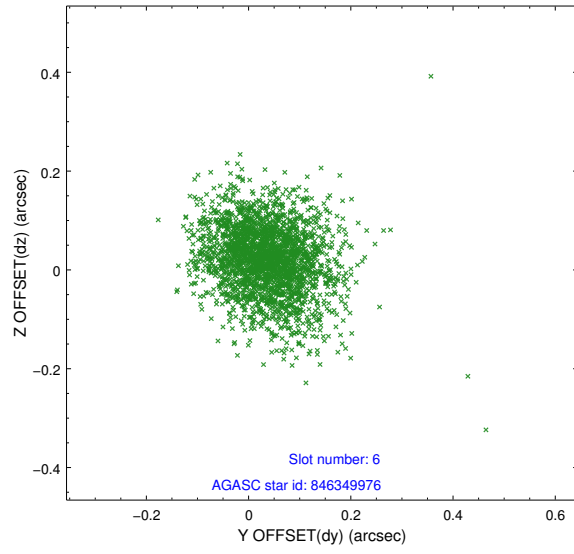
2.4.2 Slot 4



2.4.3 Slot 5

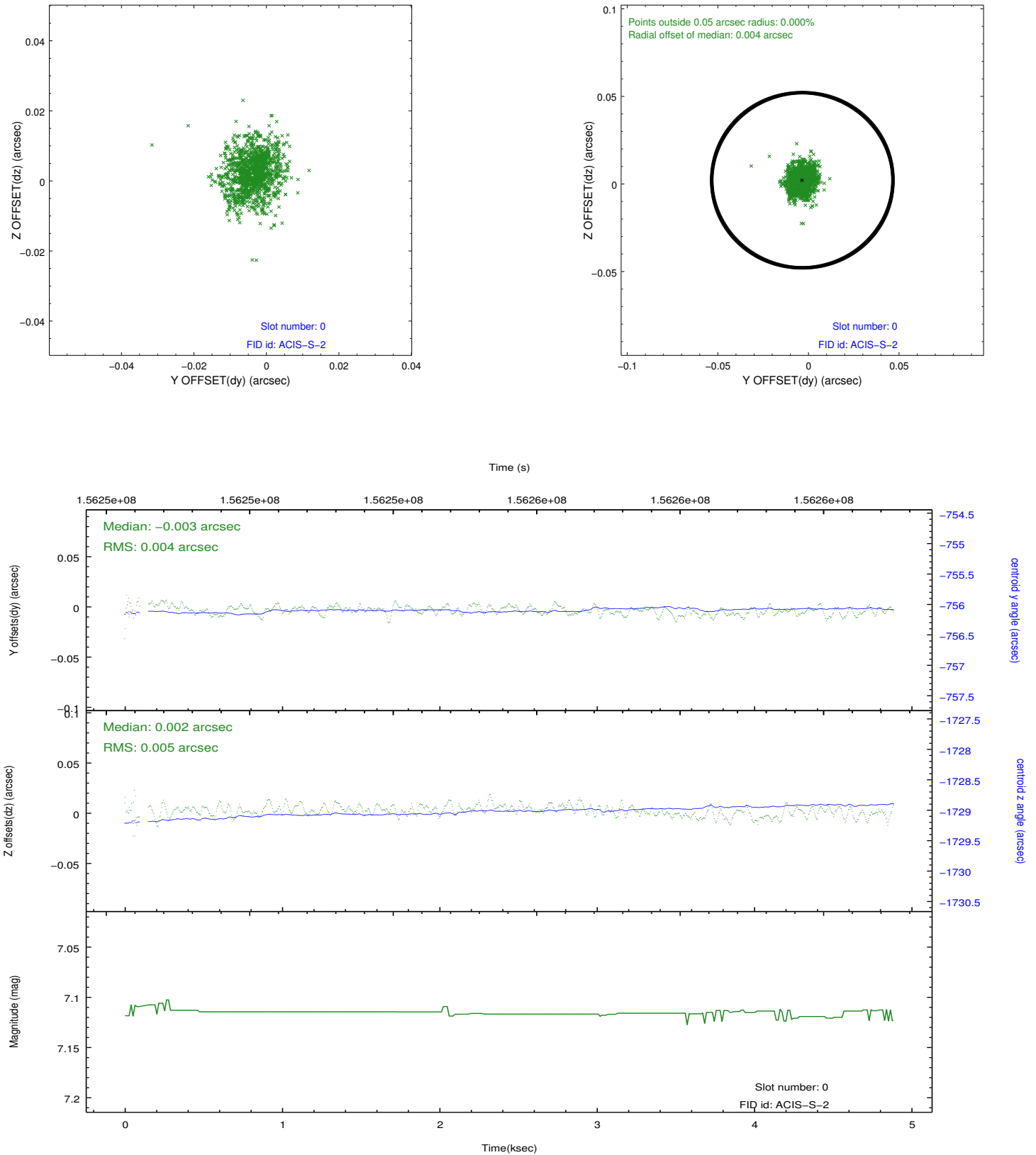


2.4.4 Slot 6

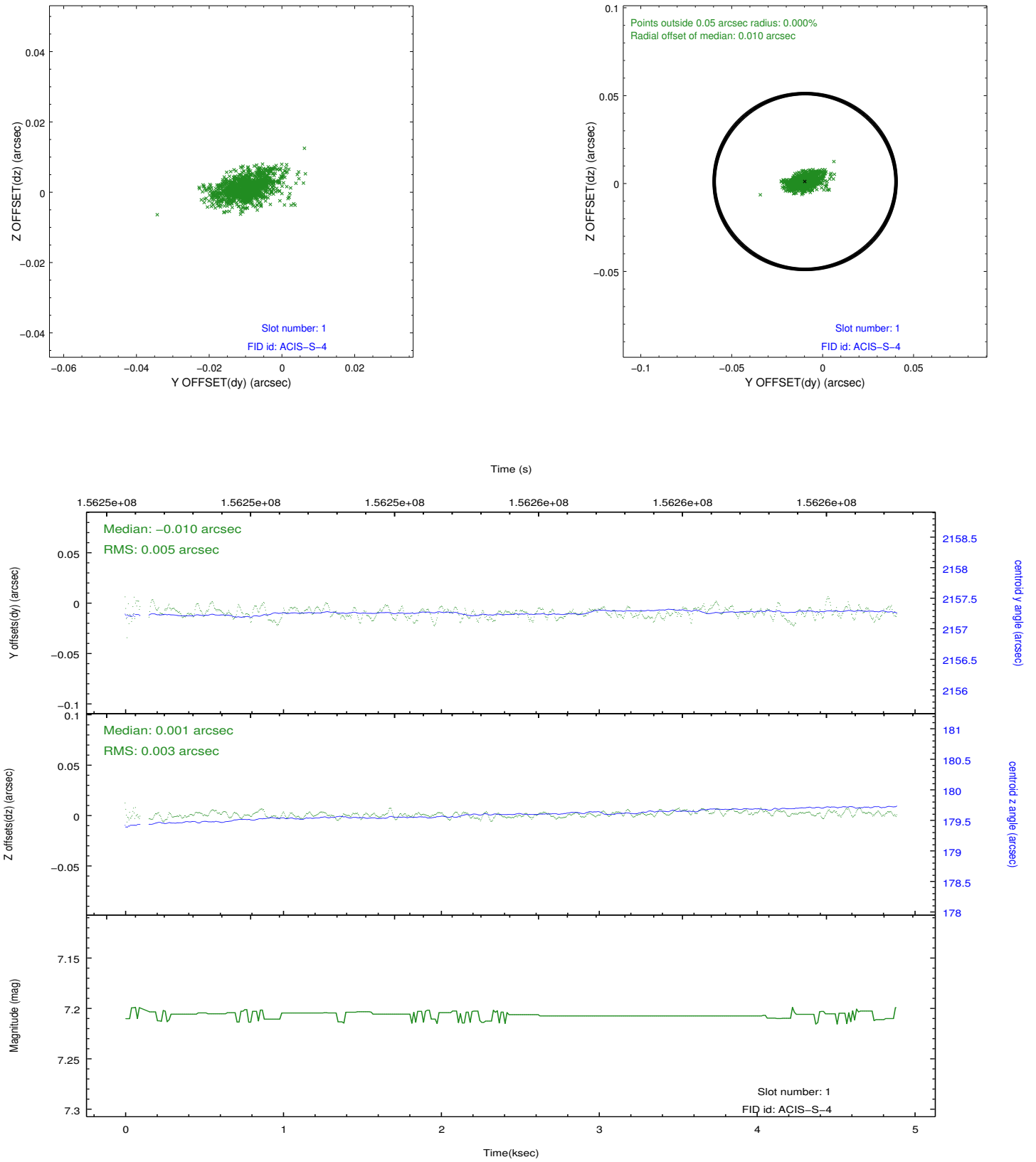


2.5 FID Slots

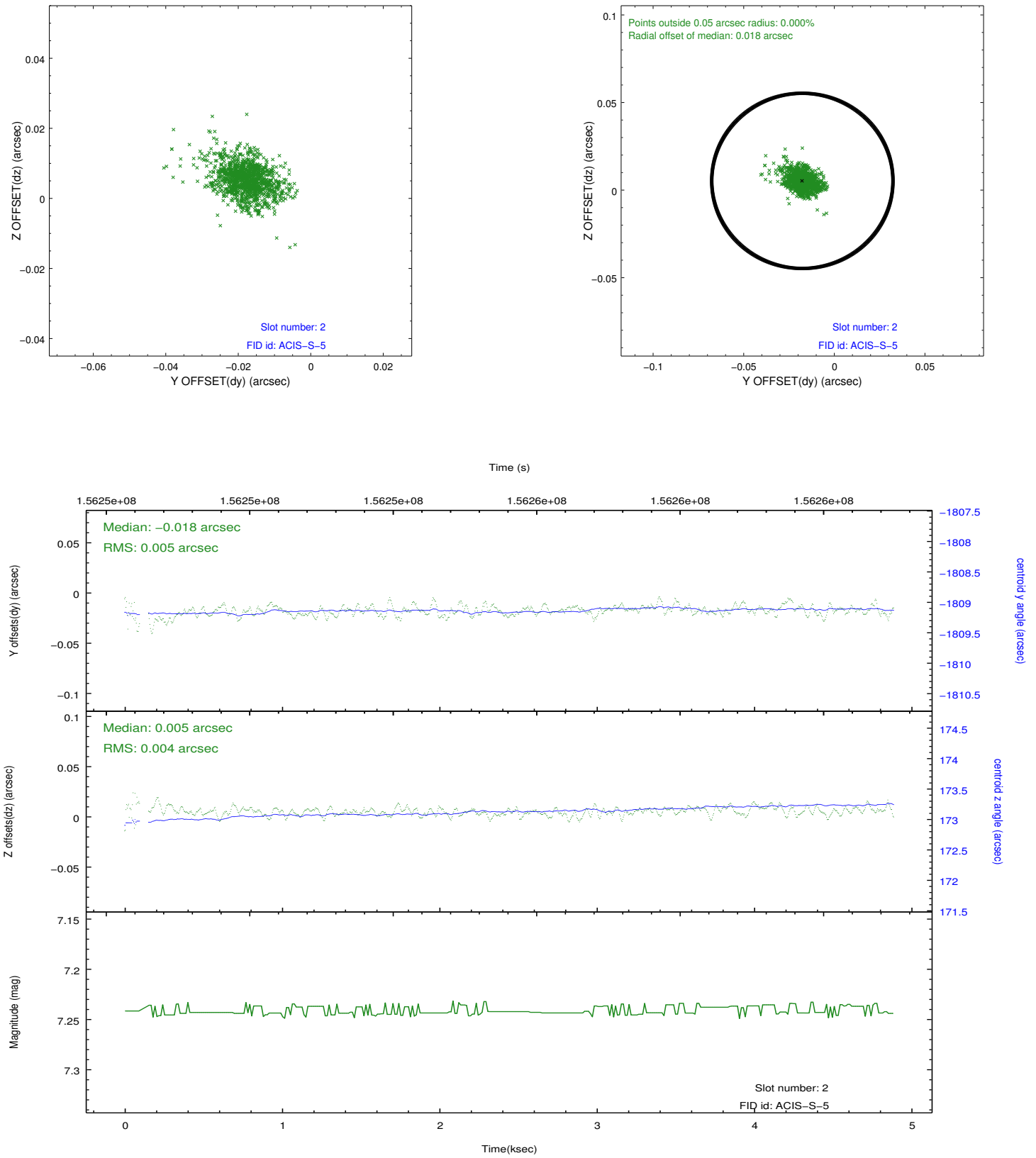
2.5.1 Slot 0



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) | 2012.10.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.73 |

A.2 Comments