

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 4100 - L2 Version 001
Chandra X-Ray Center

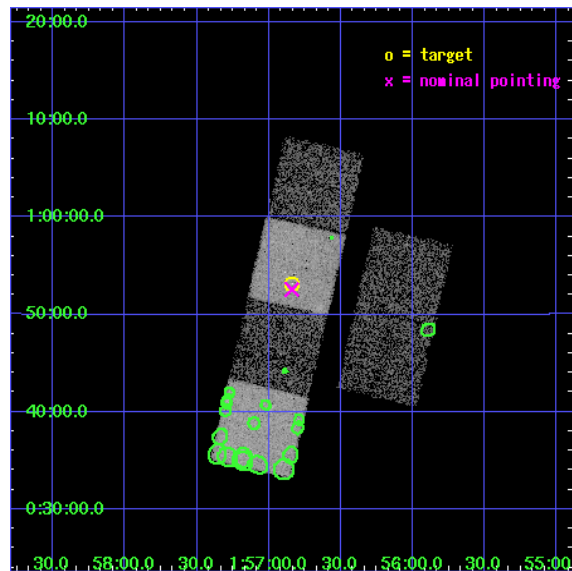
L2 Processing Date : Jul 27 2006

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1 Front

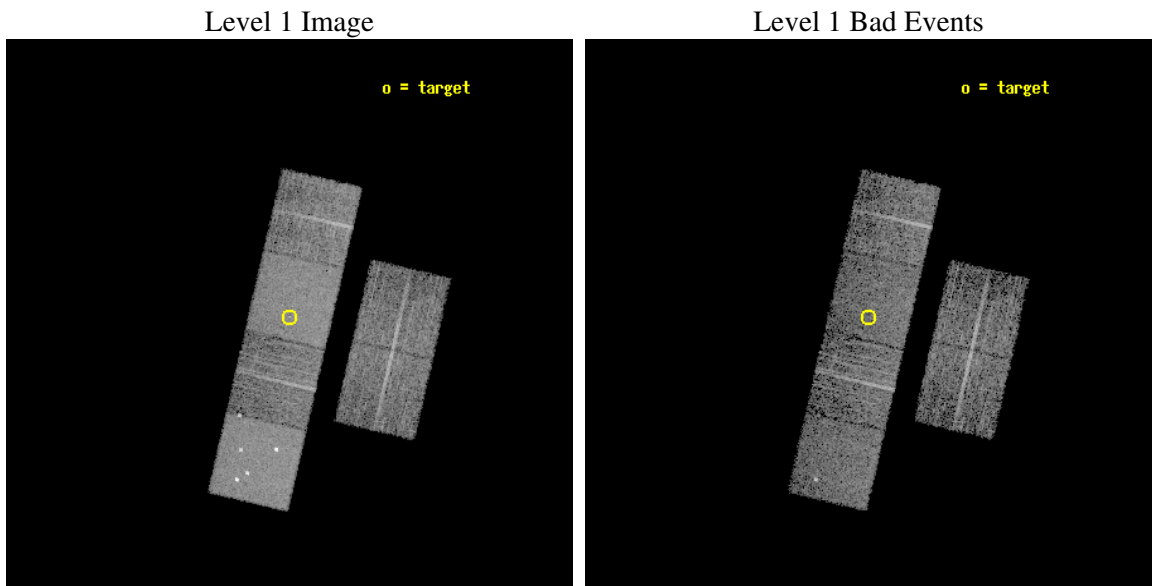
| | |
|----------|---|
| seq_num | 700779 |
| obs_id | 4100 |
| title | X-RAY CONSTRAINTS ON THE STRUCTURE OF THE BROAD EMISSION LINE REGION IN QUASARS |
| observer | Gordon Richards |
| object | SDSS J015650.28+005308.4 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 29.2095 |
| dec_targ | 0.885667 |
| ra_nom | 29.210027678794 |
| dec_nom | 0.87593553680896 |
| roll_nom | 283.09007458049 |
| revision | 2 |
| ontime | 5644.7999789715 |
| livetime | 5573.3221227473 |
| ontime2 | 5644.7999789715 |
| ontime3 | 5644.7999789715 |
| ontime5 | 5644.7999789715 |
| ontime6 | 5644.7999789715 |
| ontime7 | 5644.7999789715 |
| ontime8 | 5644.7999789715 |
| l2events | 71107 |



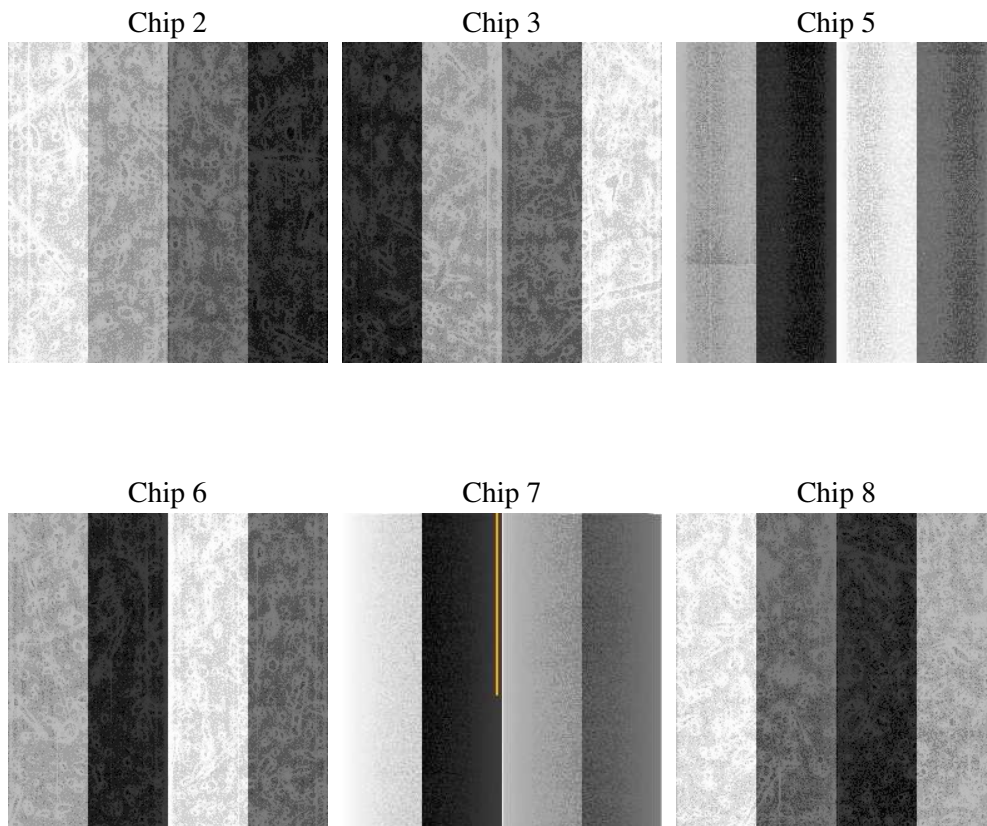
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8 |
| caldbver | 3.2.2 |
| date | 2006-07-28T02:03:37 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 5500.000000 |
| ontime | 6151.4271888435 |
| ontime2 | 6151.4271888435 |
| ontime3 | 6151.4271888435 |
| ontime5 | 6151.4271888435 |
| ontime6 | 6151.4271888435 |
| ontime7 | 6151.4271888435 |
| ontime8 | 6151.4271888435 |
| l1events | 299695 |

2.1.4 Events

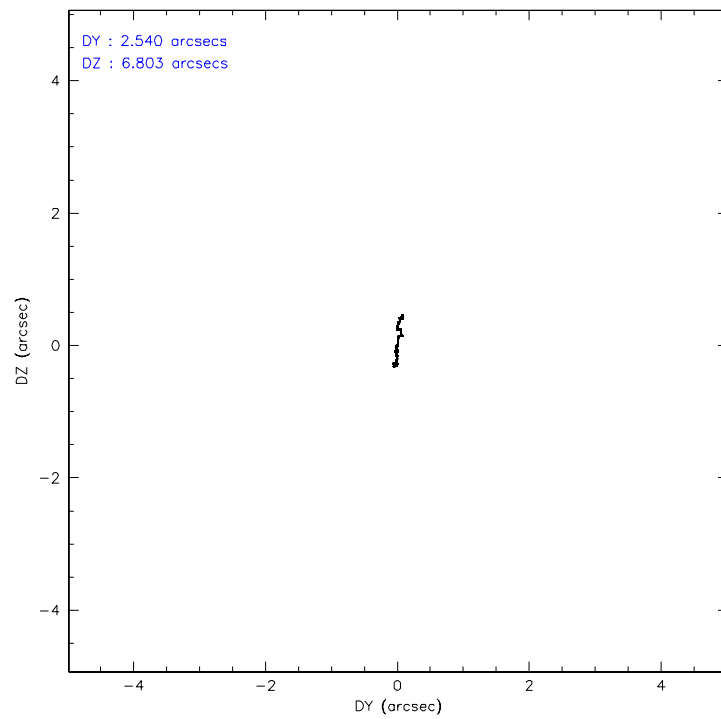
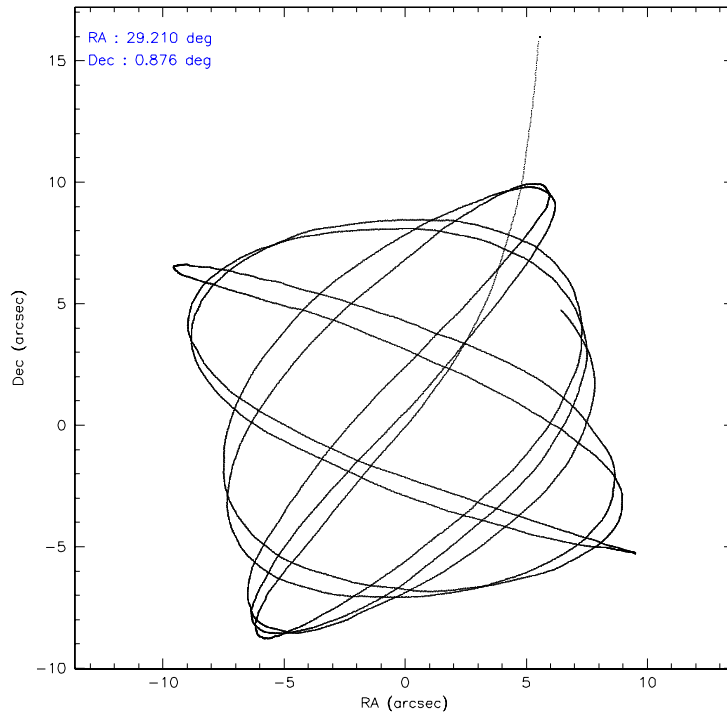
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 39325 | 38132 | 70871 | 41296 | 61099 | 48972 |
| rejected events | 35154 | 33912 | 36004 | 36646 | 35011 | 39350 |
| rejected % | 89% | 88% | 50% | 88% | 57% | 80% |

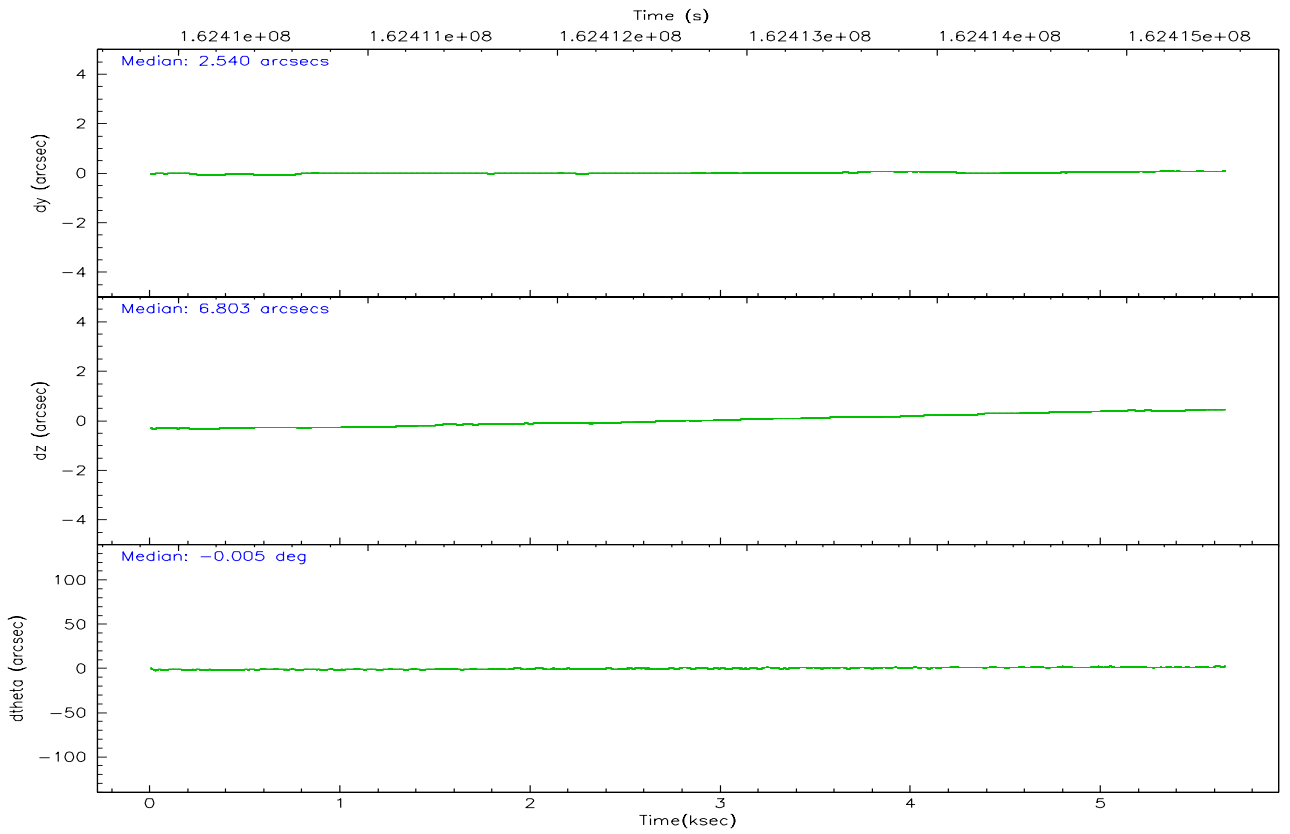
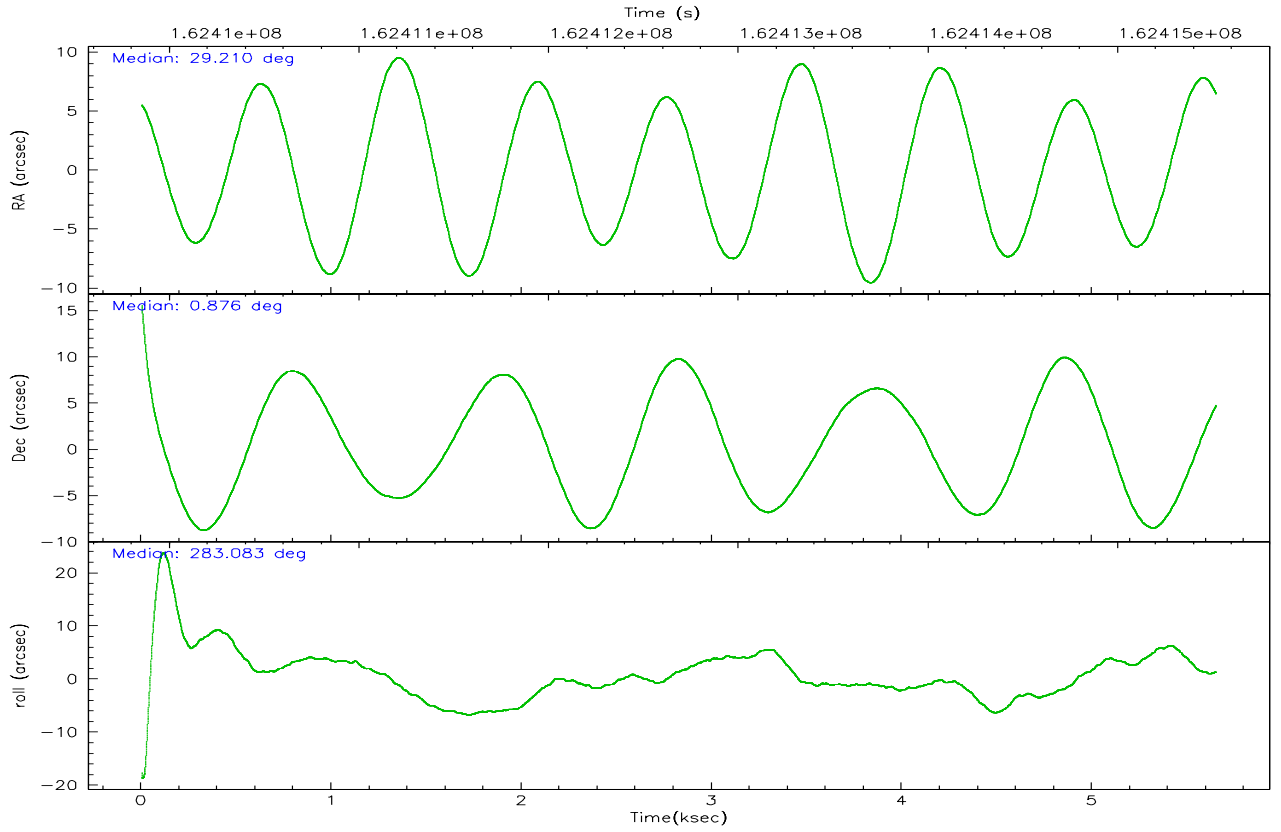
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 2102 | 2195 | 6695 | 2315 | 2230 | 3705 |
| | 5% | 5% | 9% | 5% | 3% | 7% |
| grade 1 events | 17 | 28 | 389 | 18 | 45 | 30 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 937 | 805 | 10944 | 954 | 6467 | 2182 |
| | 2% | 2% | 15% | 2% | 10% | 4% |
| grade 3 events | 407 | 455 | 904 | 434 | 1443 | 1077 |
| | 1% | 1% | 1% | 1% | 2% | 2% |
| grade 4 events | 388 | 393 | 894 | 460 | 1439 | 981 |
| | 0% | 1% | 1% | 1% | 2% | 2% |
| grade 5 events | 1452 | 1674 | 2865 | 1731 | 3357 | 2178 |
| | 3% | 4% | 4% | 4% | 5% | 4% |
| grade 6 events | 729 | 772 | 18263 | 915 | 16641 | 2596 |
| | 1% | 2% | 25% | 2% | 27% | 5% |
| grade 7 events | 33293 | 31810 | 29917 | 34469 | 29477 | 36223 |
| | 84% | 83% | 42% | 83% | 48% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 29.191130 | 29.21002767879389 | Alternating exposures requested | N | N |
| Pointing Dec | 0.895643 | 0.8759355368089599 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 282.933855 | 283.0900745804947 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.145094680475 | | | |
| SIM translation stage offset (mm) | 0 | 0.01257209746719923 | | | |
| Observation start time | 162410013.184000 | 162408709.8994 | | | |
| Observation start date | 2003-02-23T17:52:29 | 2003-02-23T17:31:49 | | | |
| Observation end time | 162415513.184000 | 162416523.47473 | | | |
| Observation end date | 2003-02-23T19:24:09 | 2003-02-23T19:42:03 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



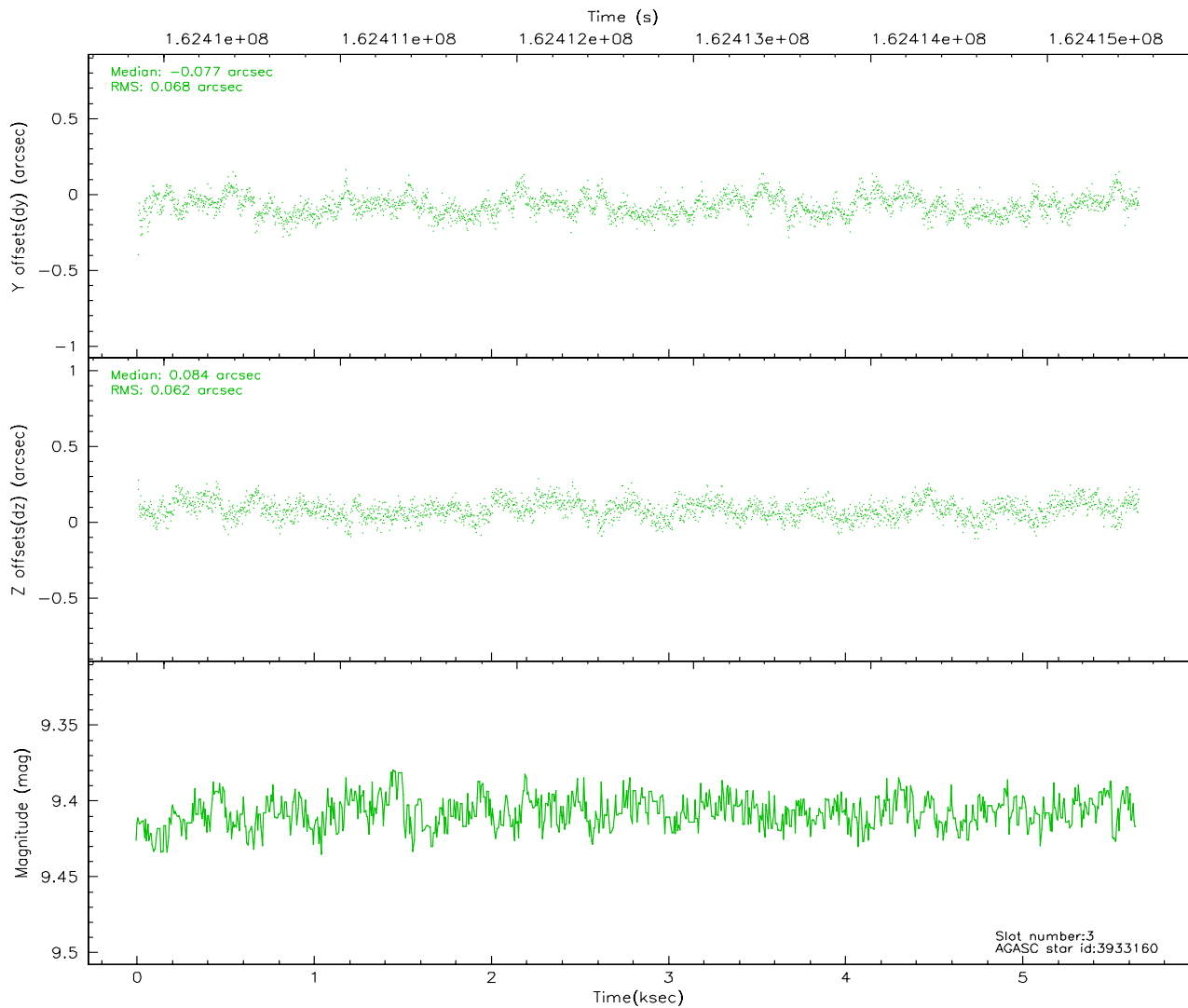
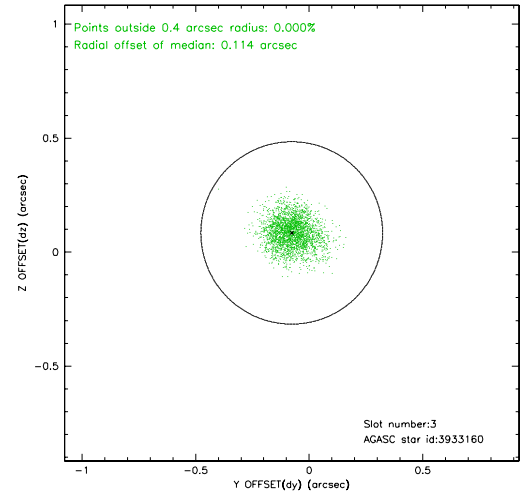
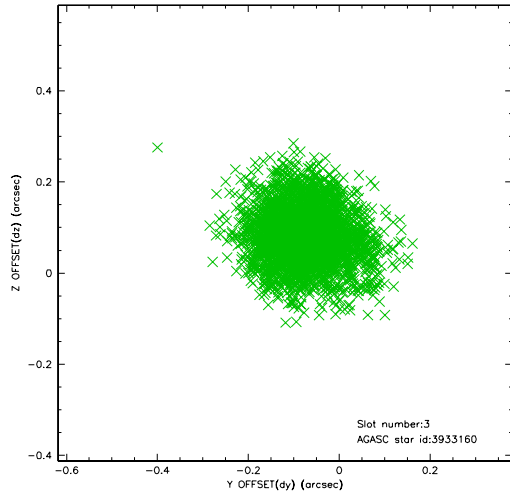


Slot Statistics

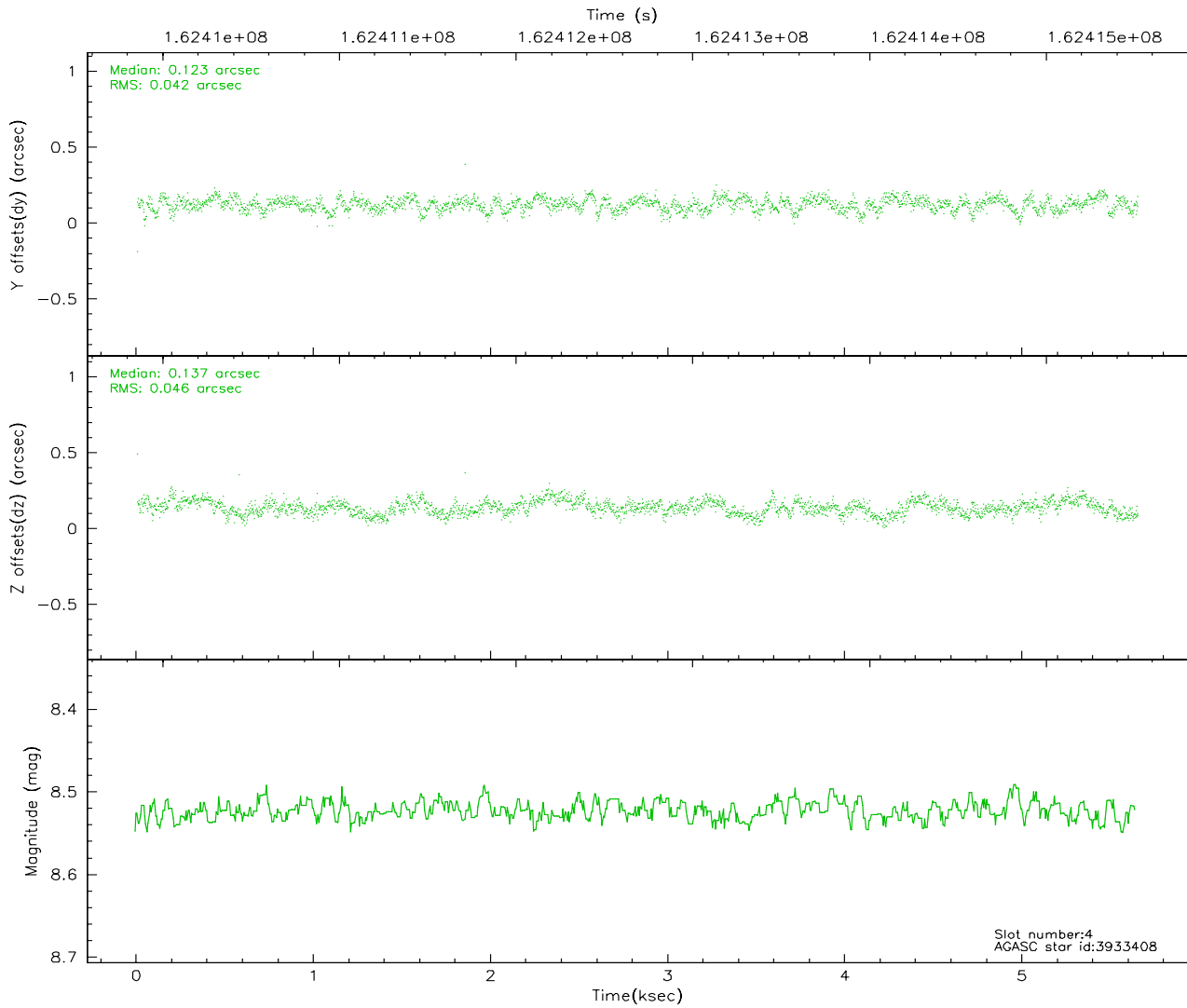
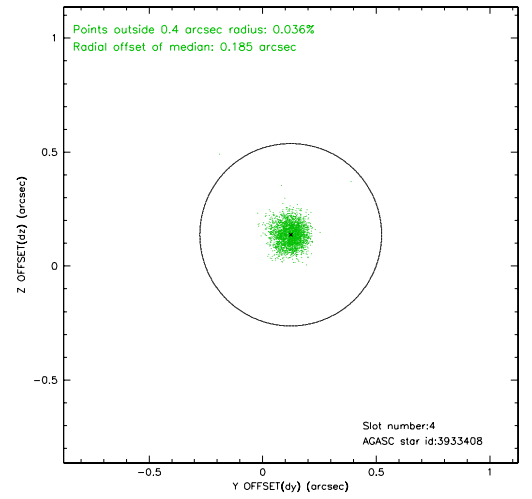
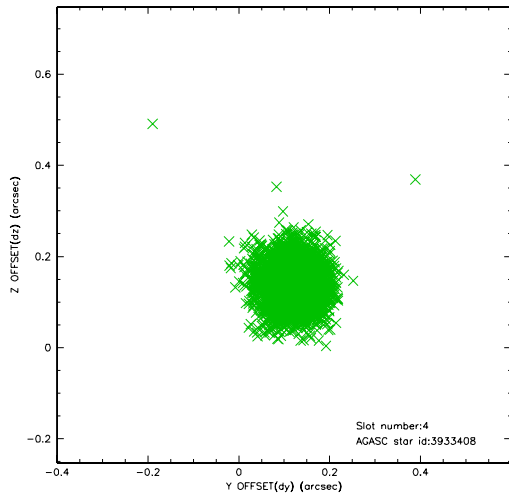
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|-------|-------|--------|--------|-------|-------|-----------|----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.12 | 1378 | -0.027 | 0.023 | 0.010 | 0.014 | 0.000000 | 0.000000 | -755.18 | -1727.87 |
| 1 | FID | ACIS-S-4 | 7.20 | 1378 | -0.045 | 0.006 | 0.006 | 0.011 | 0.000000 | 0.000000 | 2157.57 | 179.53 |
| 2 | FID | ACIS-S-5 | 7.24 | 1379 | 0.040 | -0.020 | 0.008 | 0.014 | 0.000000 | 0.000000 | -1806.62 | 174.34 |
| 3 | GUIDE | 3933160 | 9.41 | 2756 | -0.077 | 0.084 | 0.098 | 0.159 | 29.607018 | 0.758442 | 816.15 | 1348.85 |
| 4 | GUIDE | 3933408 | 8.52 | 2757 | 0.123 | 0.137 | 0.067 | 0.102 | 29.793077 | 0.506917 | 1848.98 | 1799.81 |
| 5 | GUIDE | 3937024 | 10.02 | 2755 | -0.155 | -0.061 | 0.128 | 0.202 | 28.630904 | 1.215320 | -1572.49 | -1707.07 |
| 6 | GUIDE | 3939256 | 9.94 | 2746 | 0.097 | 0.026 | 0.156 | 0.243 | 28.955841 | 0.906301 | -227.47 | -817.31 |
| 7 | GUIDE | 3932200 | 9.31 | 2754 | 0.020 | -0.178 | 0.126 | 0.233 | 28.826564 | 0.608712 | 713.03 | -1510.61 |

2.4 Star Slots

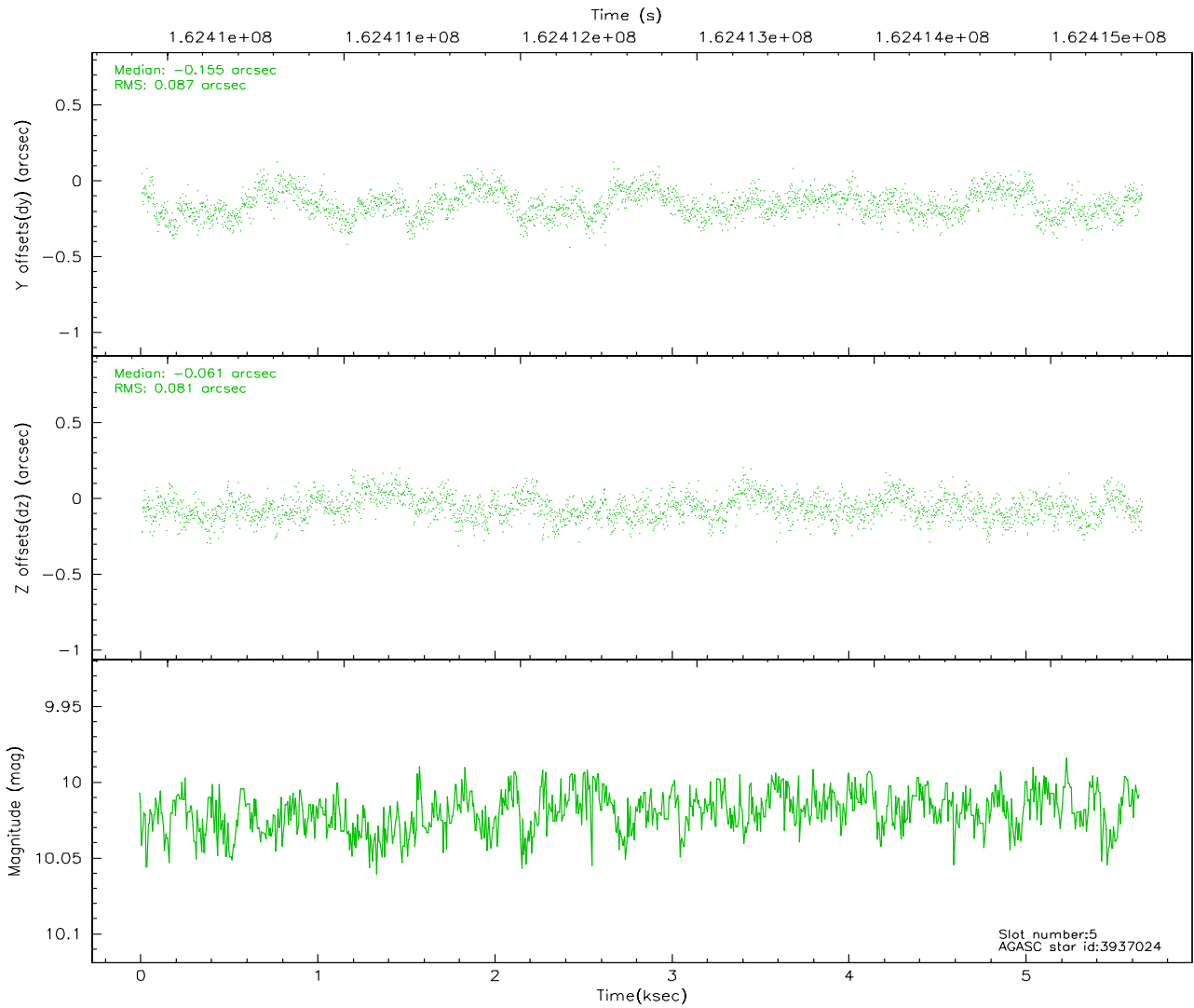
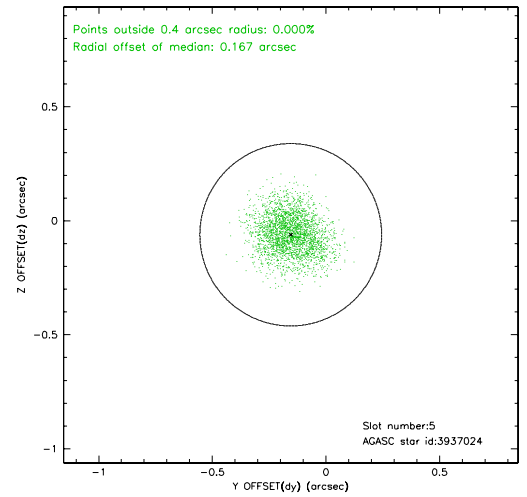
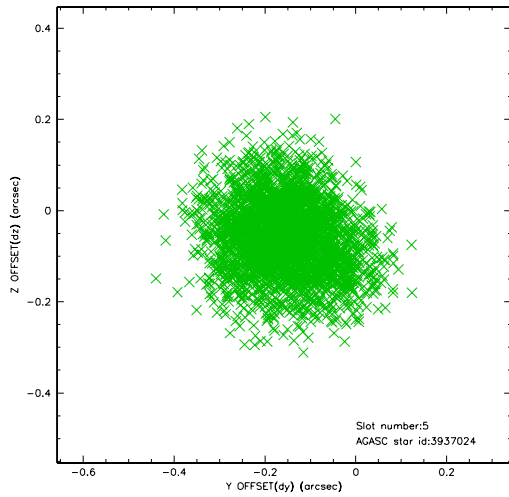
2.4.1 Slot 3



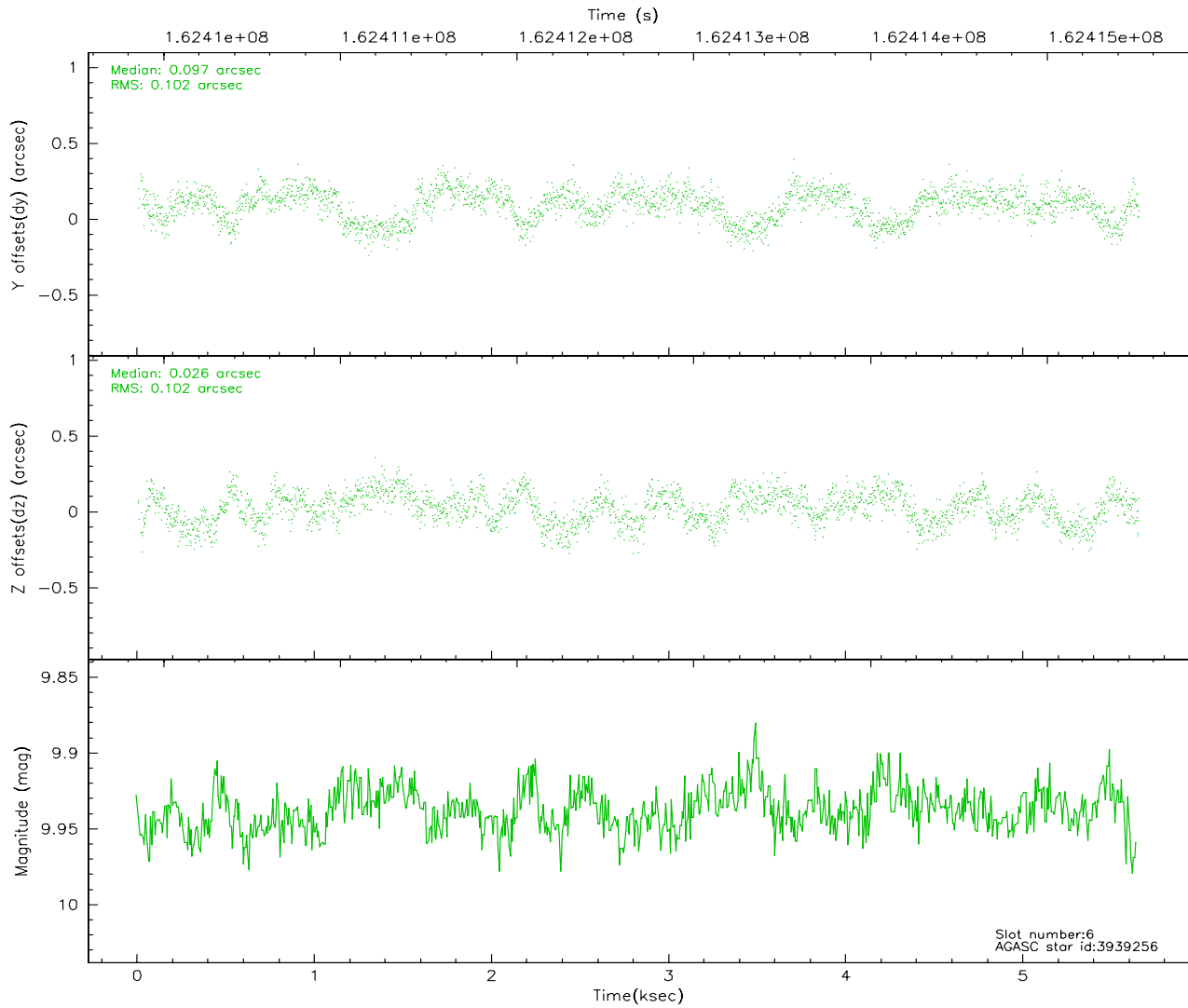
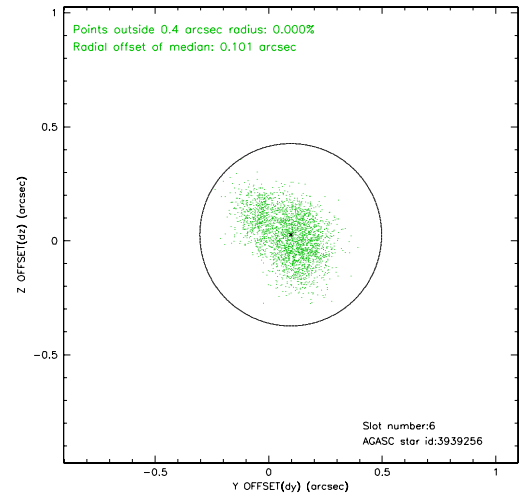
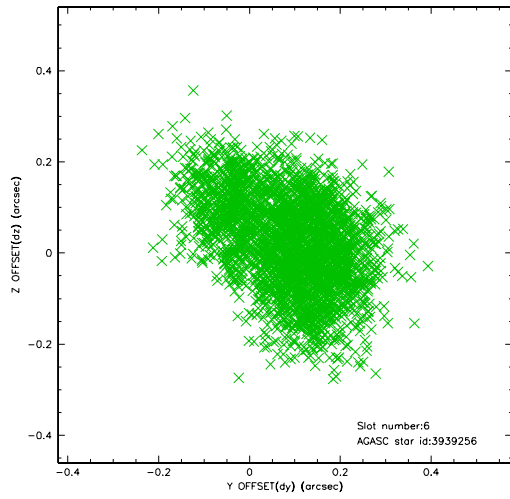
2.4.2 Slot 4



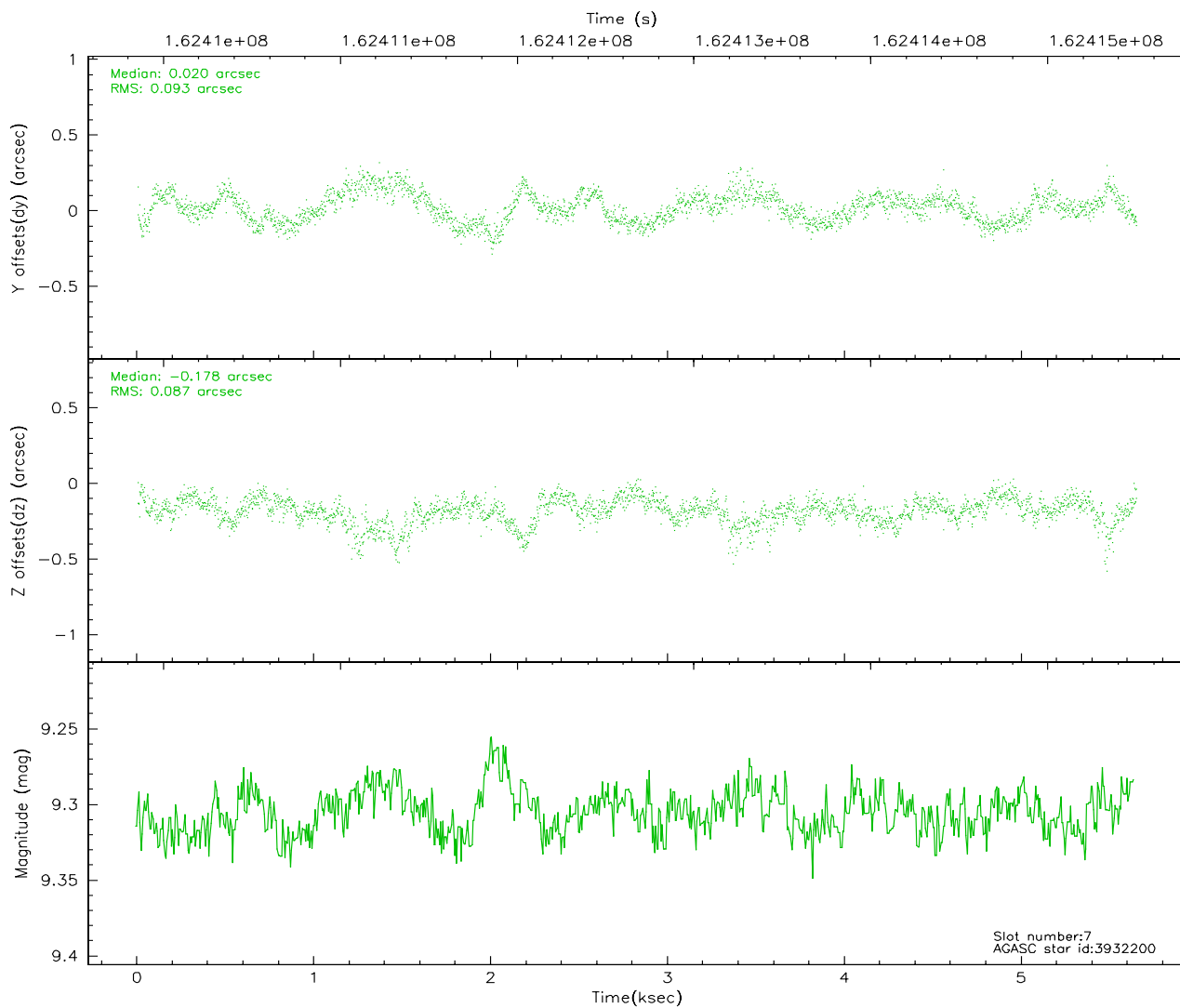
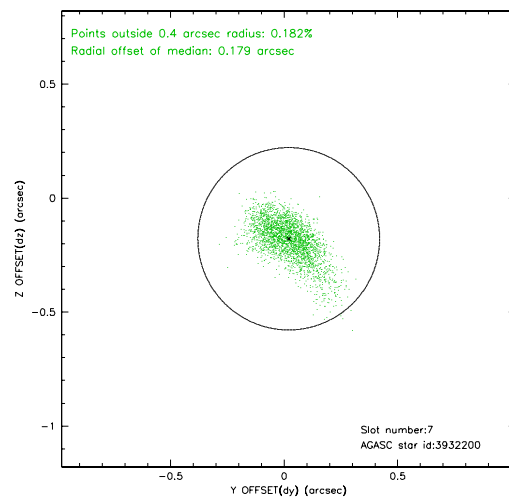
2.4.3 Slot 5



2.4.4 Slot 6

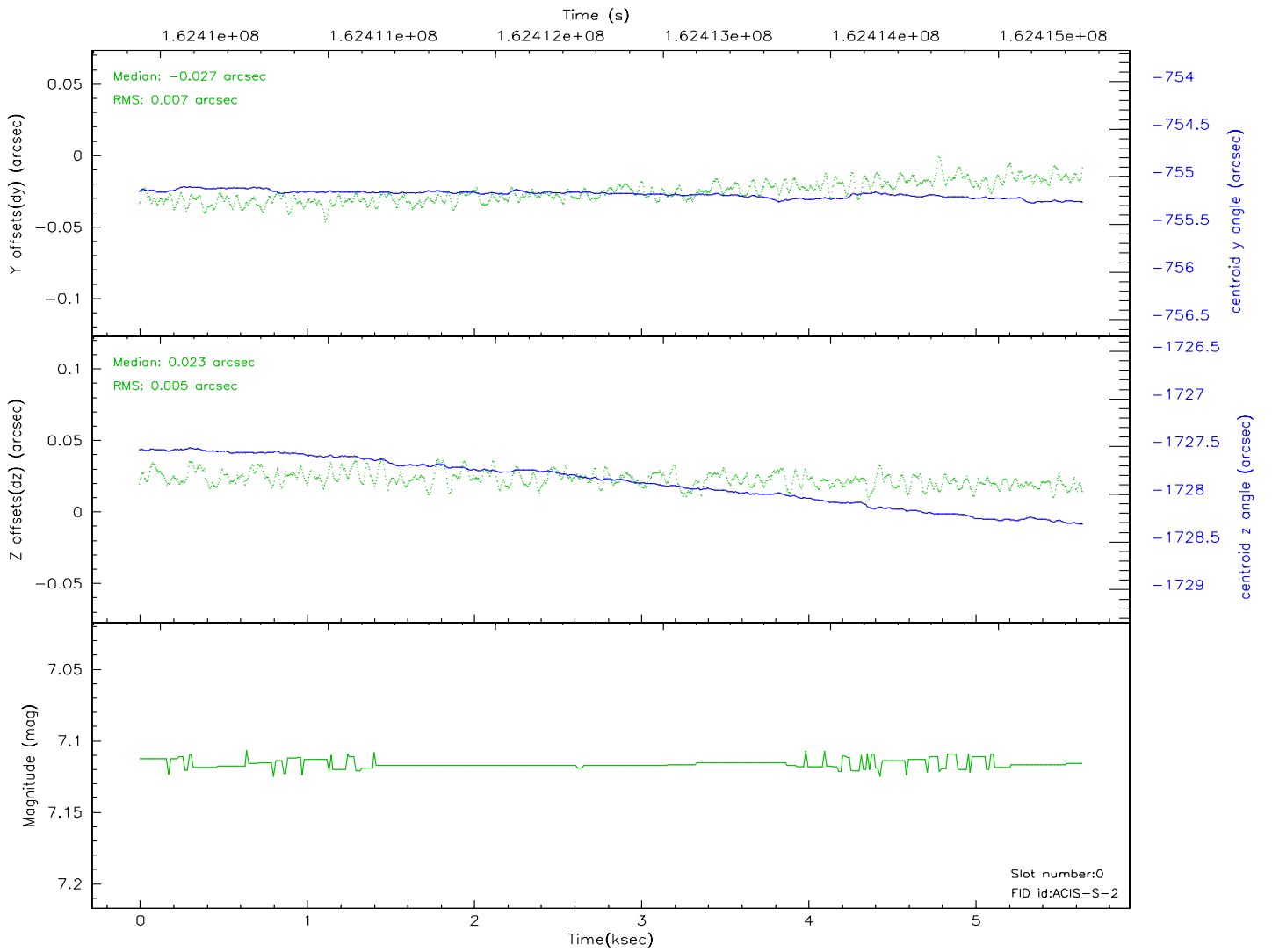
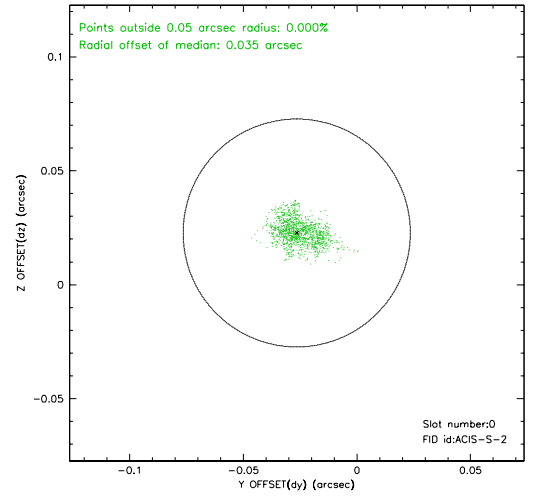
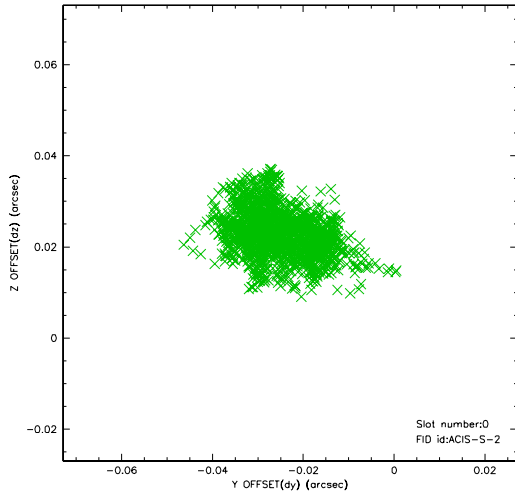


2.4.5 Slot 7

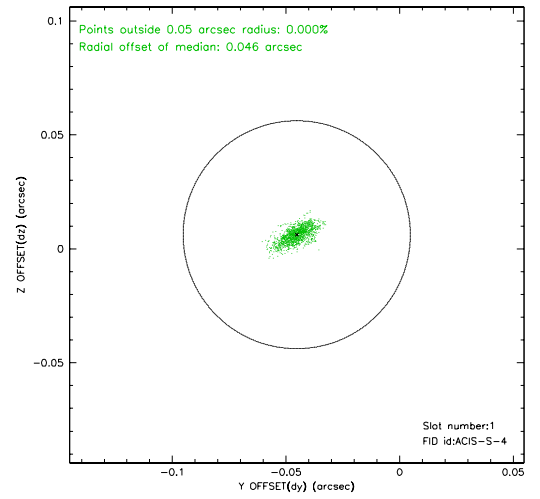
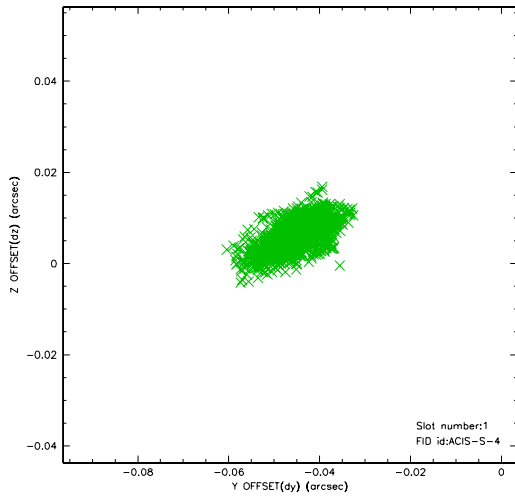


2.5 FID Slots

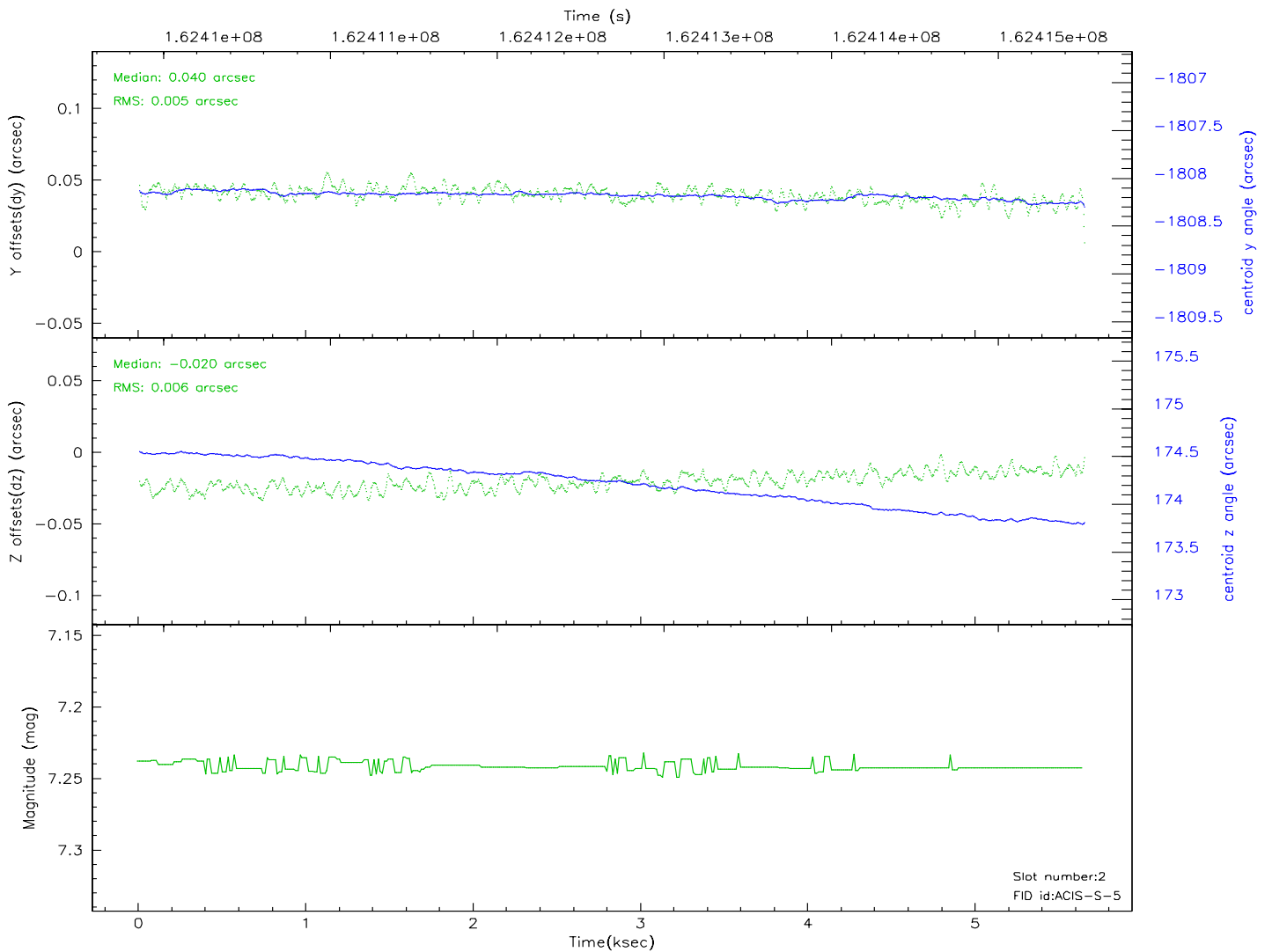
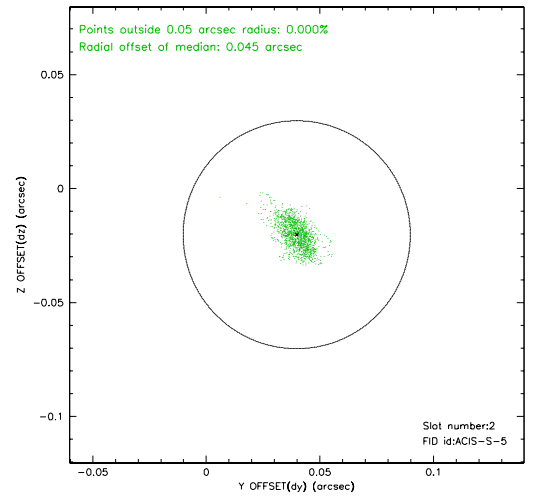
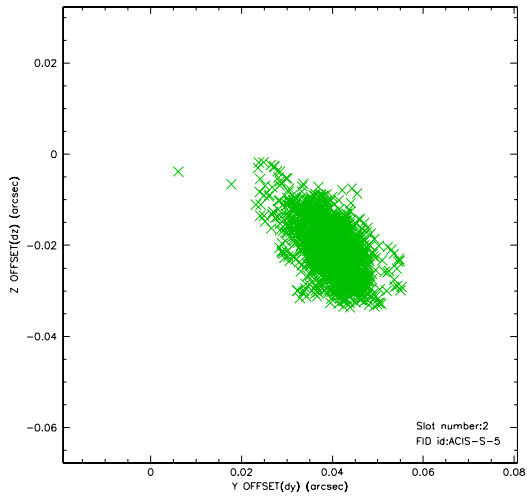
2.5.1 Slot 0



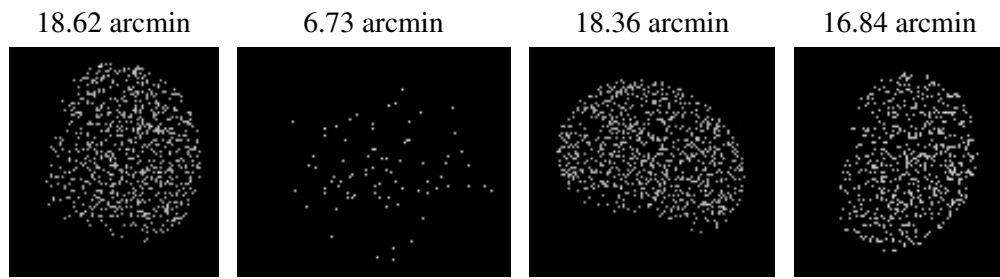
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.07.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.644 |

A.2 Comments