

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4423 - L2 Version 3
Chandra X-Ray Center

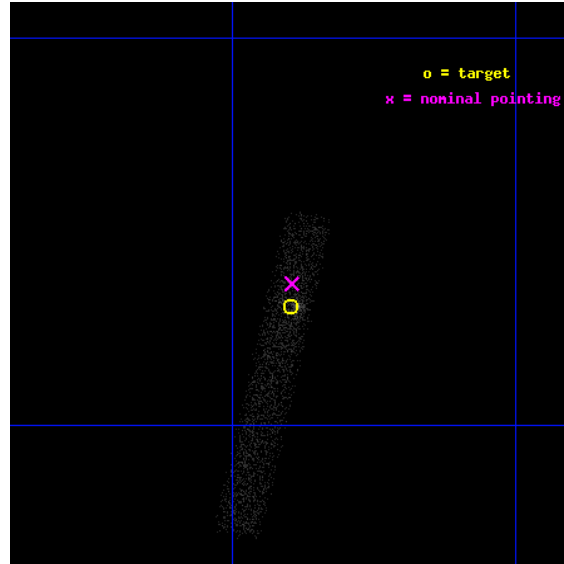
L2 Processing Date : Oct 26 2012

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

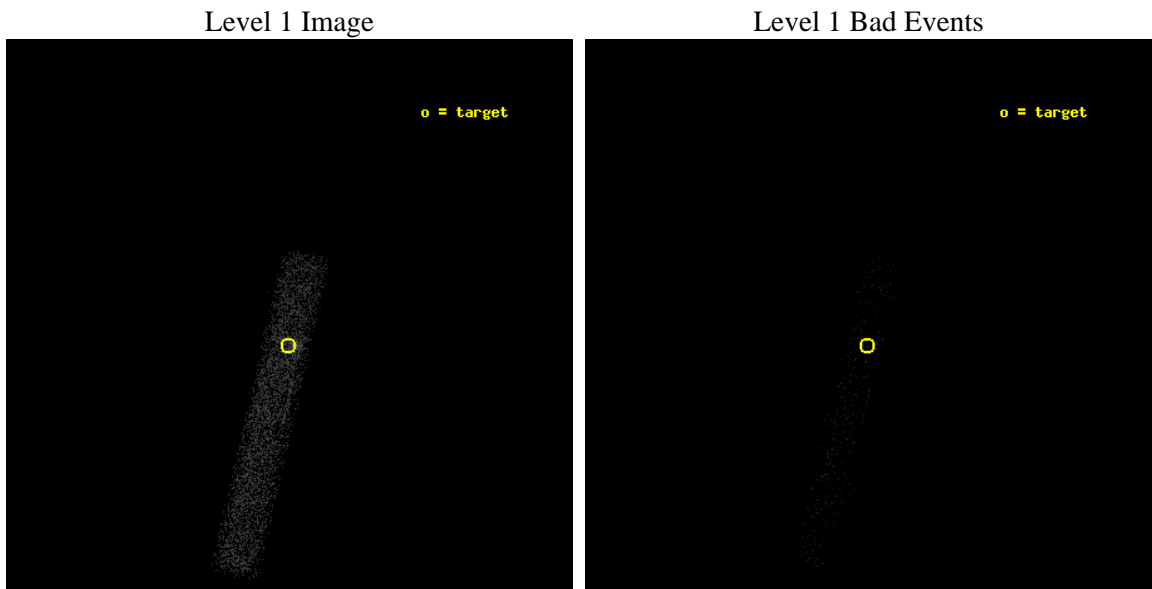
| | | |
|----------|---|---|
| seq_num | 400320 | Sequence number |
| obs_id | 4423 | Observation id |
| title | THE BHC SOFT X-RAY TRANSIENT XTE J1908+094 RETURNING TO QUIESCENCE | |
| observer | dr Peter Jonker | Principal investigator |
| object | XTE J1908+094 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 287.224167 | Observer's specified target RA [deg] |
| dec_targ | 9.384694 | Observer's specified target Dec [deg] |
| ra_nom | 287.22378554676 | Nominal RA [deg] |
| dec_nom | 9.3942842687995 | Nominal Dec [deg] |
| roll_nom | 102.8475444863 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5150.8000767231 | Sum of GTIs [s] |
| livetime | 4671.5037880674 | Livetime [s] |
| ontime7 | 5150.8000767231 | Sum of GTIs [s] |
| l2events | 5440 | Number of level 2 events |



2 OBI

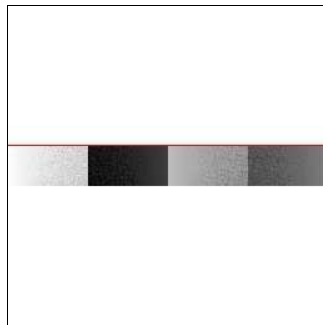
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 5150.8000767231 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime7 | 5150.8000767231 | Sum of GTIs [s] |
| date | 2012-10-26T16:52:12 | Date and time of file creation | l1events | 9824 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

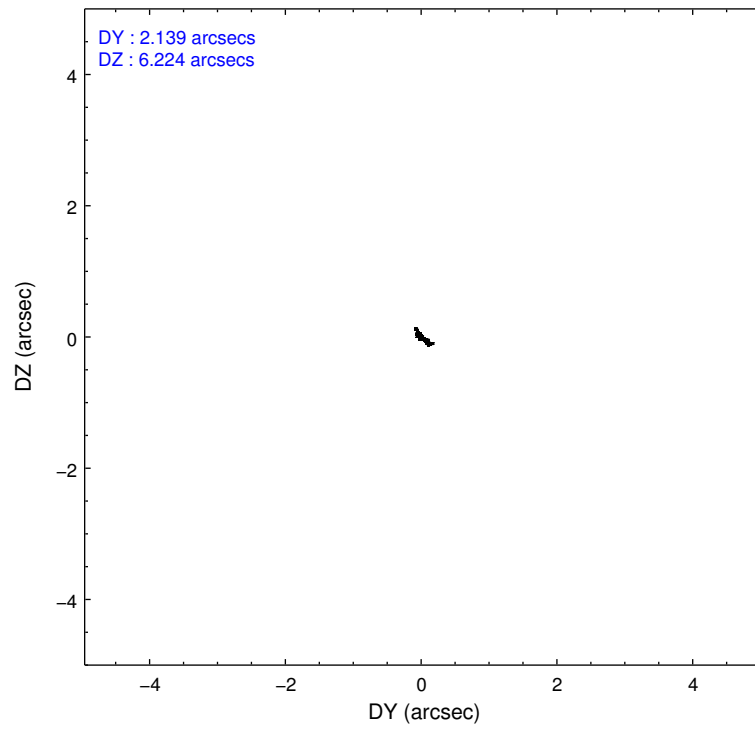
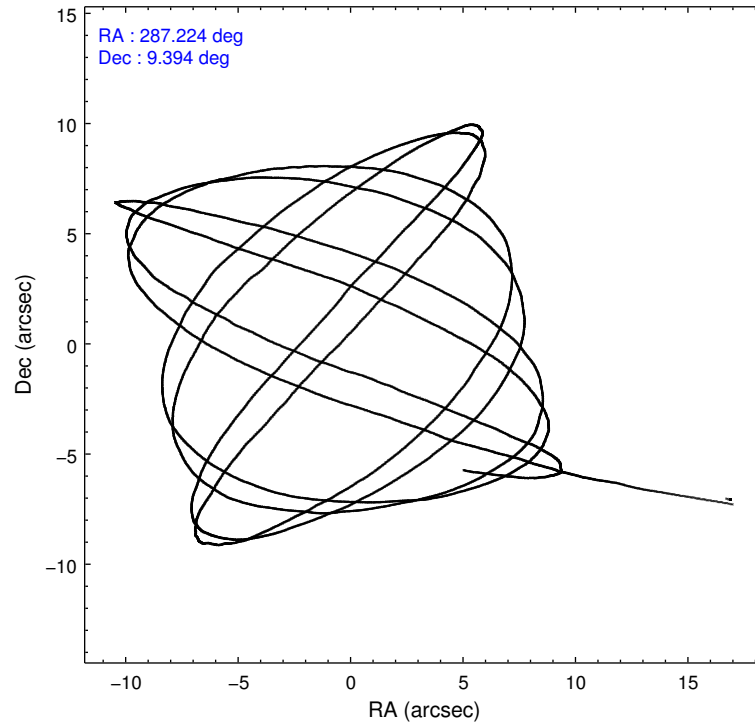
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 9824 |
| rejected events | 4282 |
| rejected % | 43% |

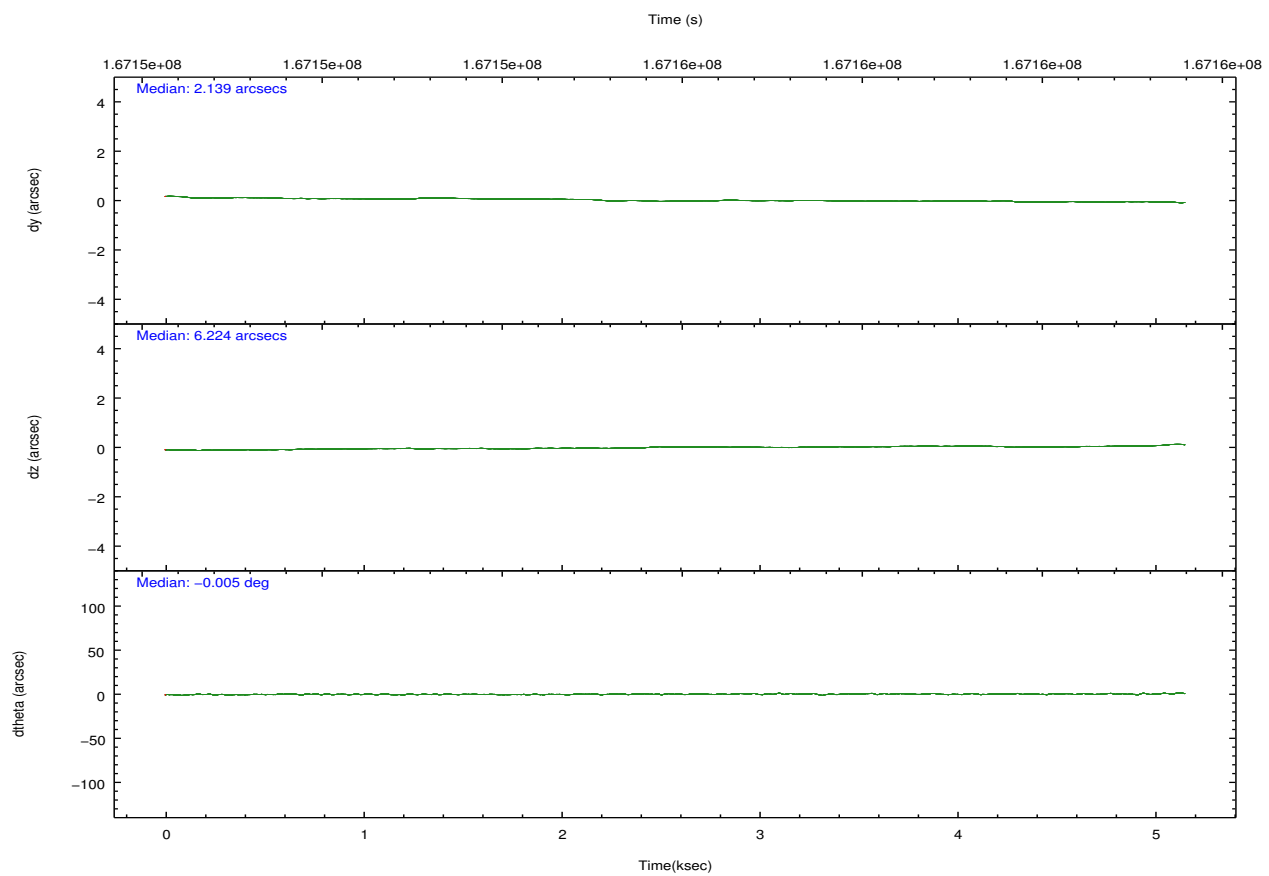
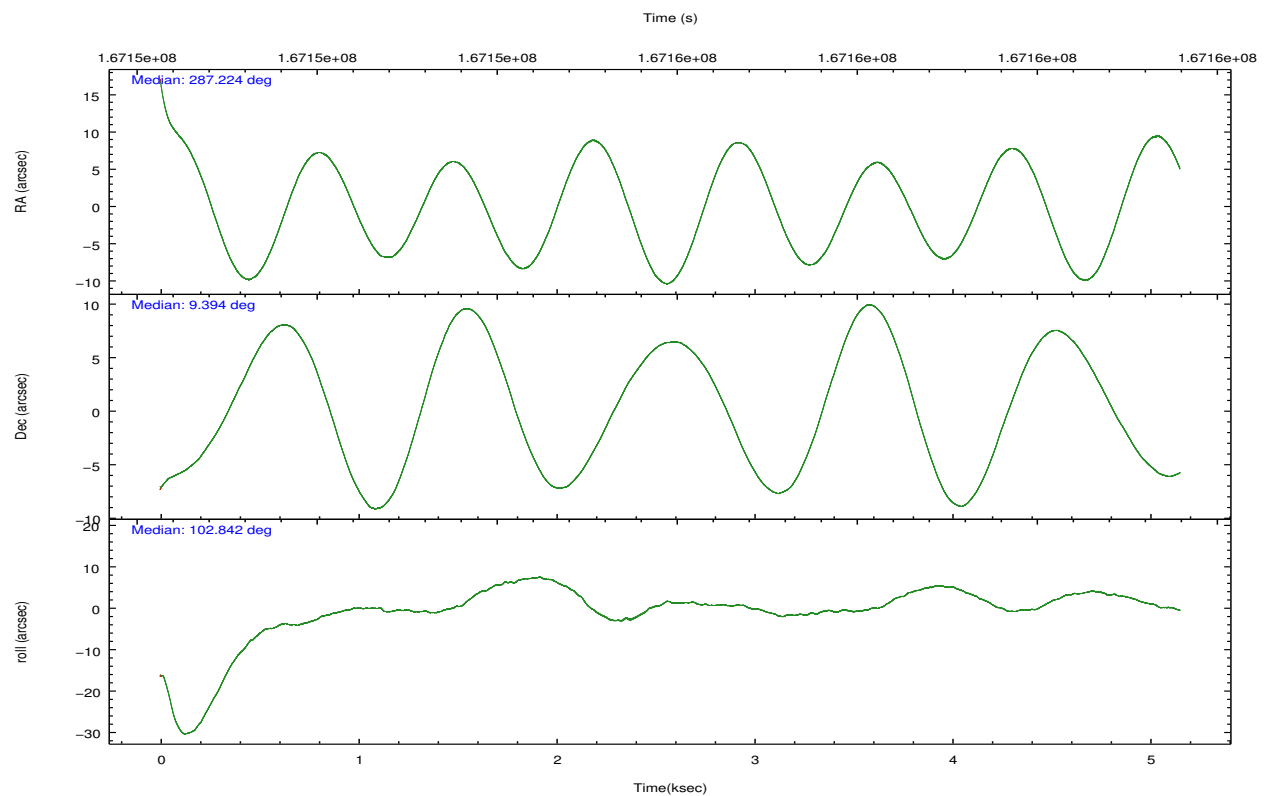
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 916 |
| | 9% |
| grade 1 events | 28 |
| | 0% |
| grade 2 events | 1266 |
| | 12% |
| grade 3 events | 749 |
| | 7% |
| grade 4 events | 691 |
| | 7% |
| grade 5 events | 657 |
| | 6% |
| grade 6 events | 2381 |
| | 24% |
| grade 7 events | 3136 |
| | 31% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-7 | ACIS-7 | 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 | 287.242732 | 287.2237855467581 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | 9.374643 | 9.394284268799458 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 102.687791 | 102.8475444862977 | Subarray row count | 128 | 128 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | [s] Primary exposure time | 0.000000 | 0.4 |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 167152531.184000 | 167151500.92429 | | | |
| Observation start date | 2003-04-19T15:14:27 | 2003-04-19T14:58:20 | | | |
| [s] Observation end time (MET) | 167157531.184000 | 167158051.18707 | | | |
| Observation end date | 2003-04-19T16:37:47 | 2003-04-19T16:47:31 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



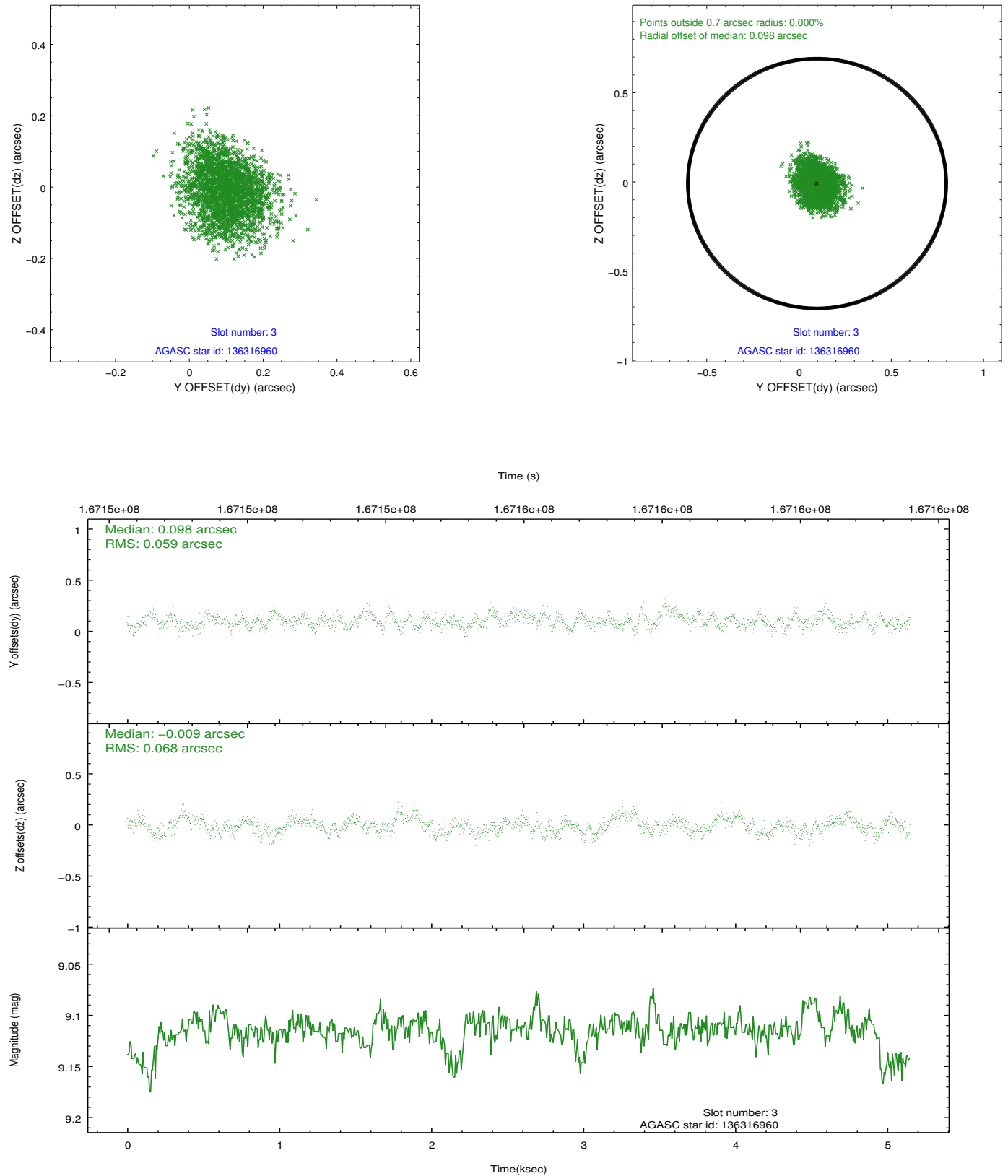


Slot Statistics

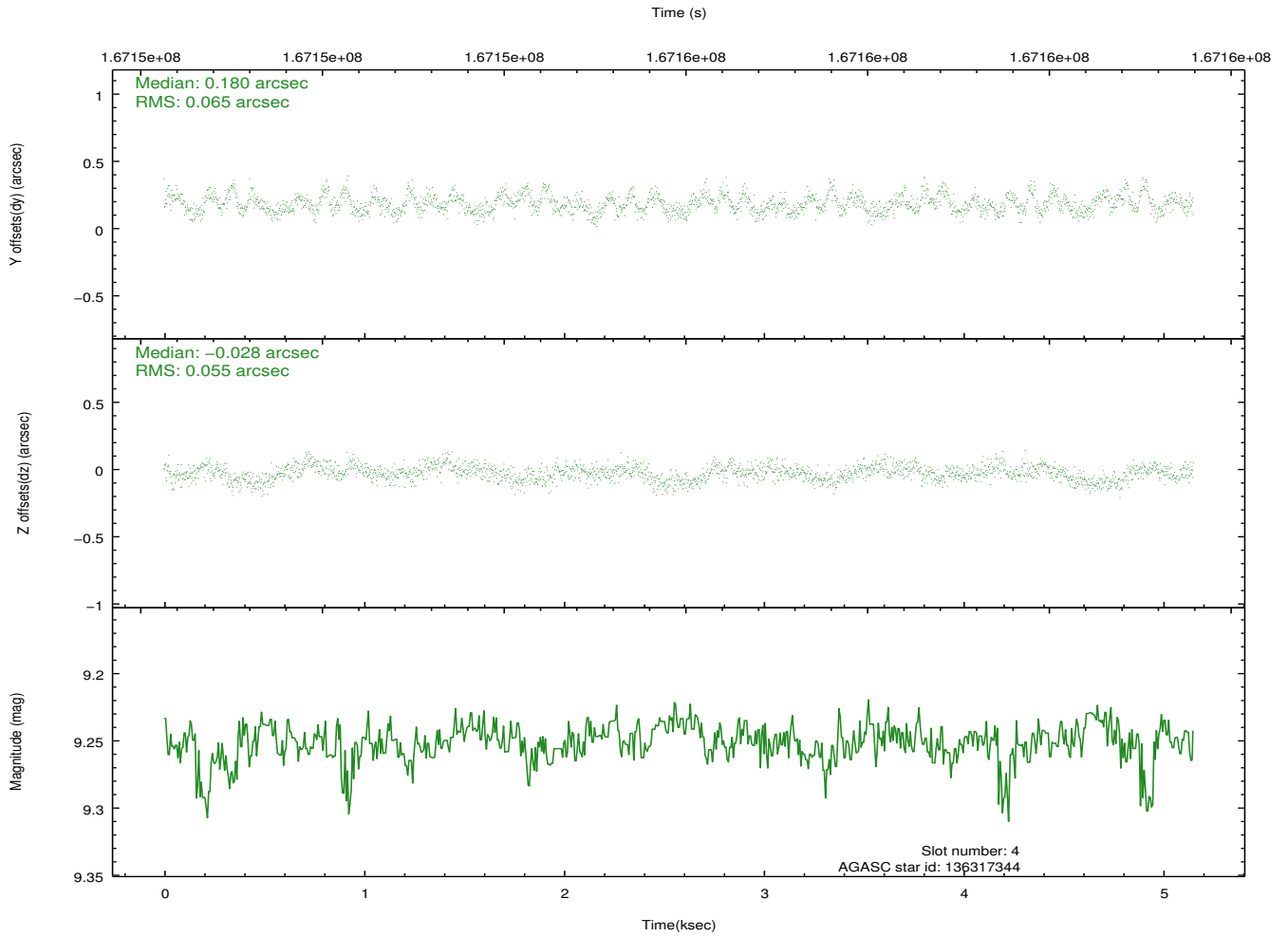
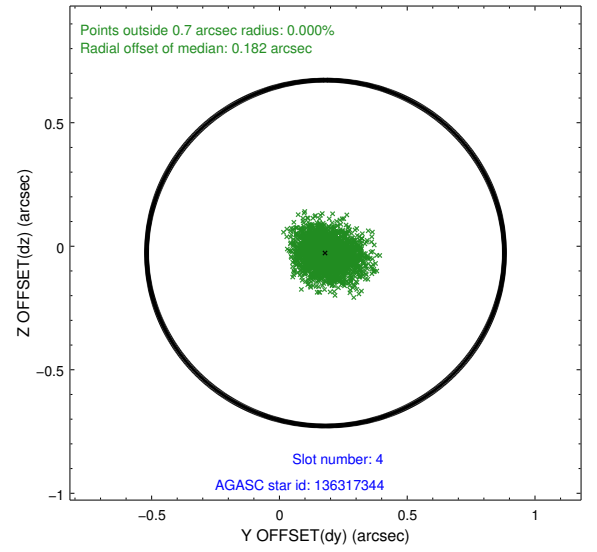
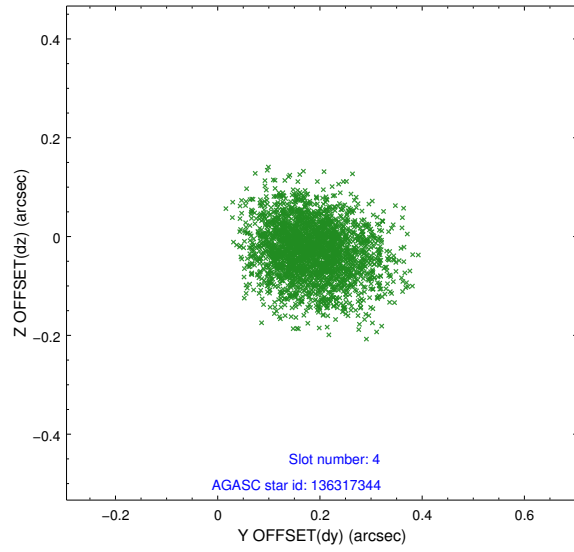
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.12 | 1257 | -0.054 | -0.002 | 0.006 | 0.010 | 0.000000 | 0.000000 | -754.79 | -1727.32 |
| 1 | FID | ACIS-S-4 | 7.21 | 1257 | 0.008 | 0.027 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2157.97 | 180.04 |
| 2 | FID | ACIS-S-5 | 7.24 | 1257 | 0.015 | -0.016 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1806.09 | 174.92 |
| 3 | GUIDE | 136316960 | 9.11 | 2506 | 0.098 | -0.009 | 0.097 | 0.154 | 287.104881 | 9.133555 | -738.48 | 669.02 |
| 4 | GUIDE | 136317344 | 9.25 | 2510 | 0.180 | -0.028 | 0.091 | 0.148 | 287.032148 | 8.921467 | -1426.63 | 1089.50 |
| 5 | GUIDE | 136450552 | 9.24 | 2512 | 0.127 | 0.192 | 0.088 | 0.148 | 287.756963 | 9.197020 | -1023.68 | -1641.67 |
| 6 | GUIDE | 136979696 | 9.39 | 2514 | -0.110 | 0.197 | 0.097 | 0.157 | 287.607746 | 9.703592 | 871.66 | -1523.85 |
| 7 | GUIDE | 136844448 | 7.81 | 2513 | -0.302 | -0.354 | 0.070 | 0.109 | 286.569231 | 9.582775 | 1258.69 | 2167.01 |

2.4 Star Slots

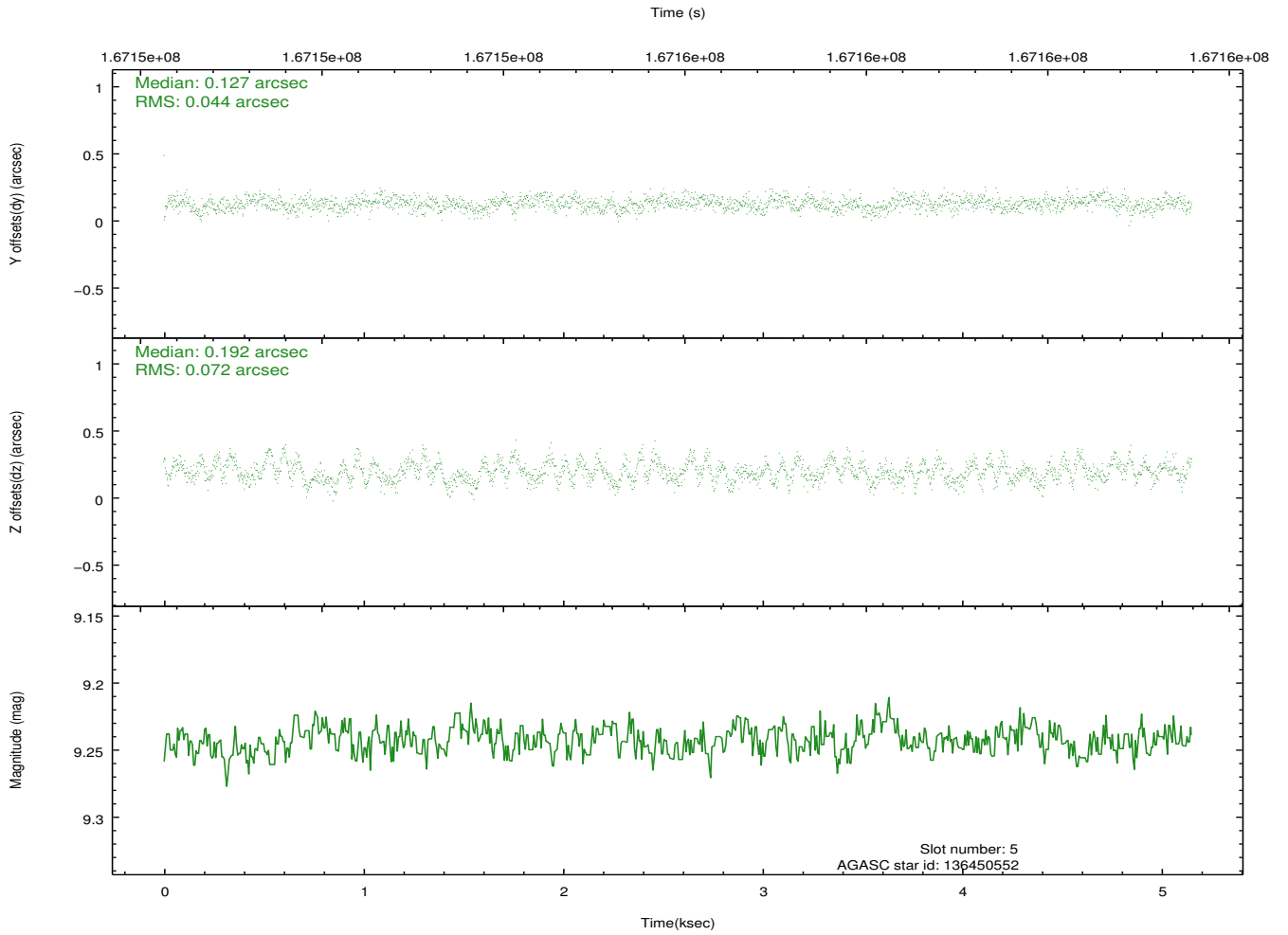
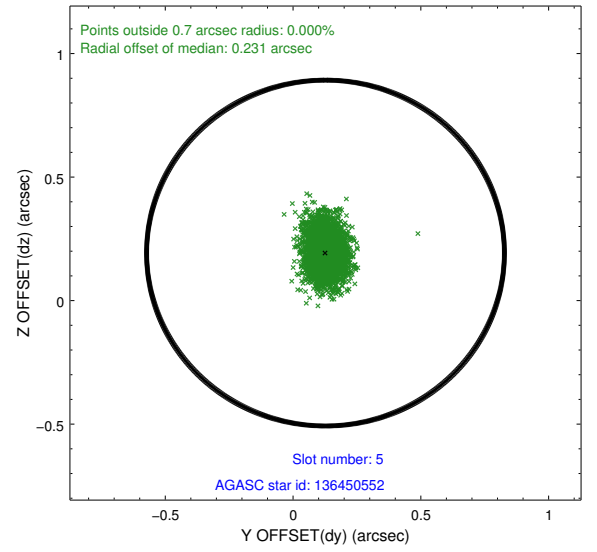
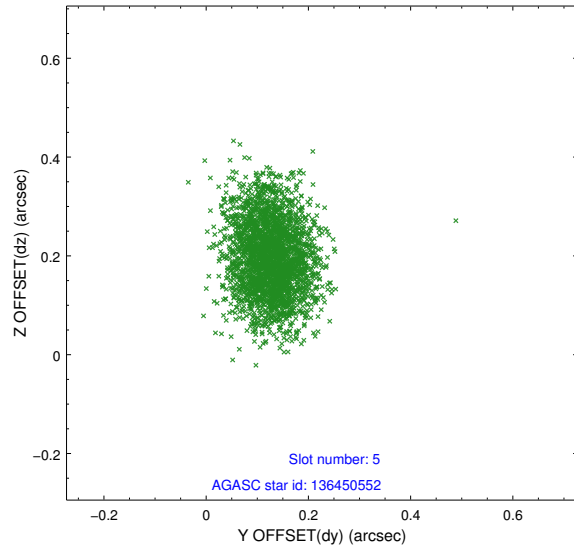
2.4.1 Slot 3



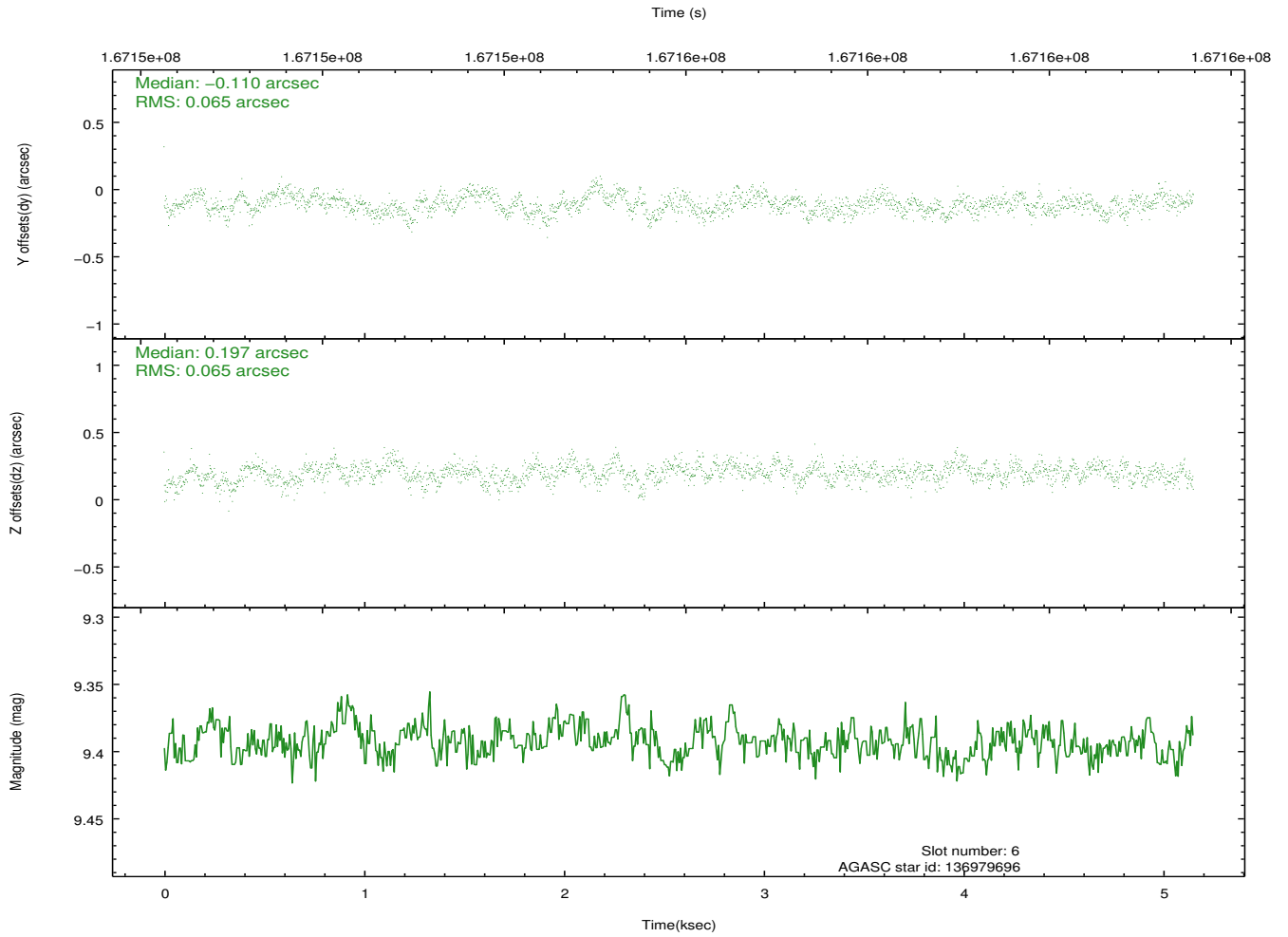
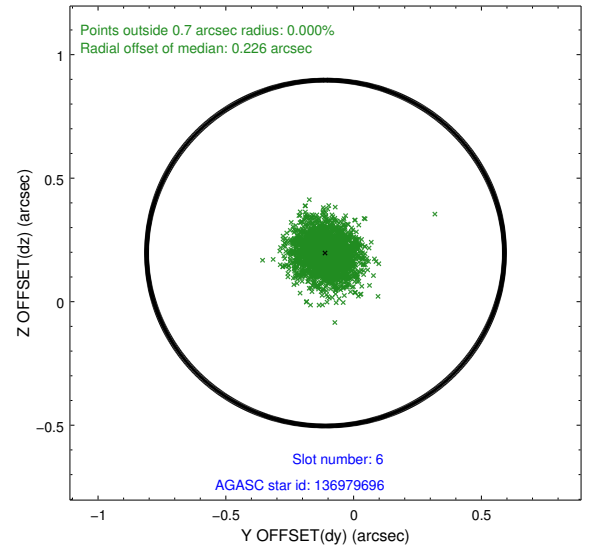
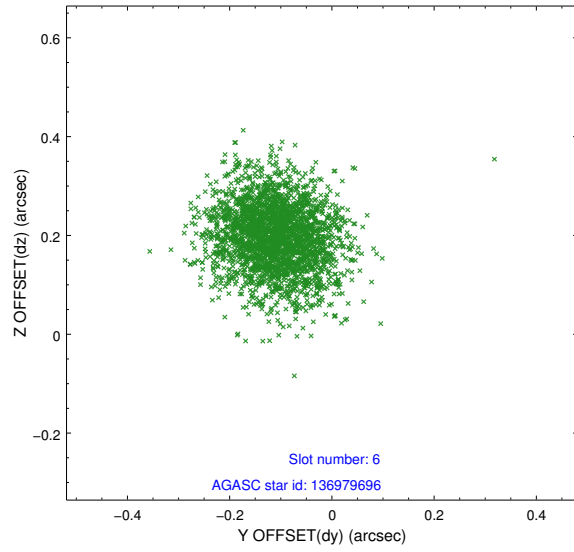
2.4.2 Slot 4



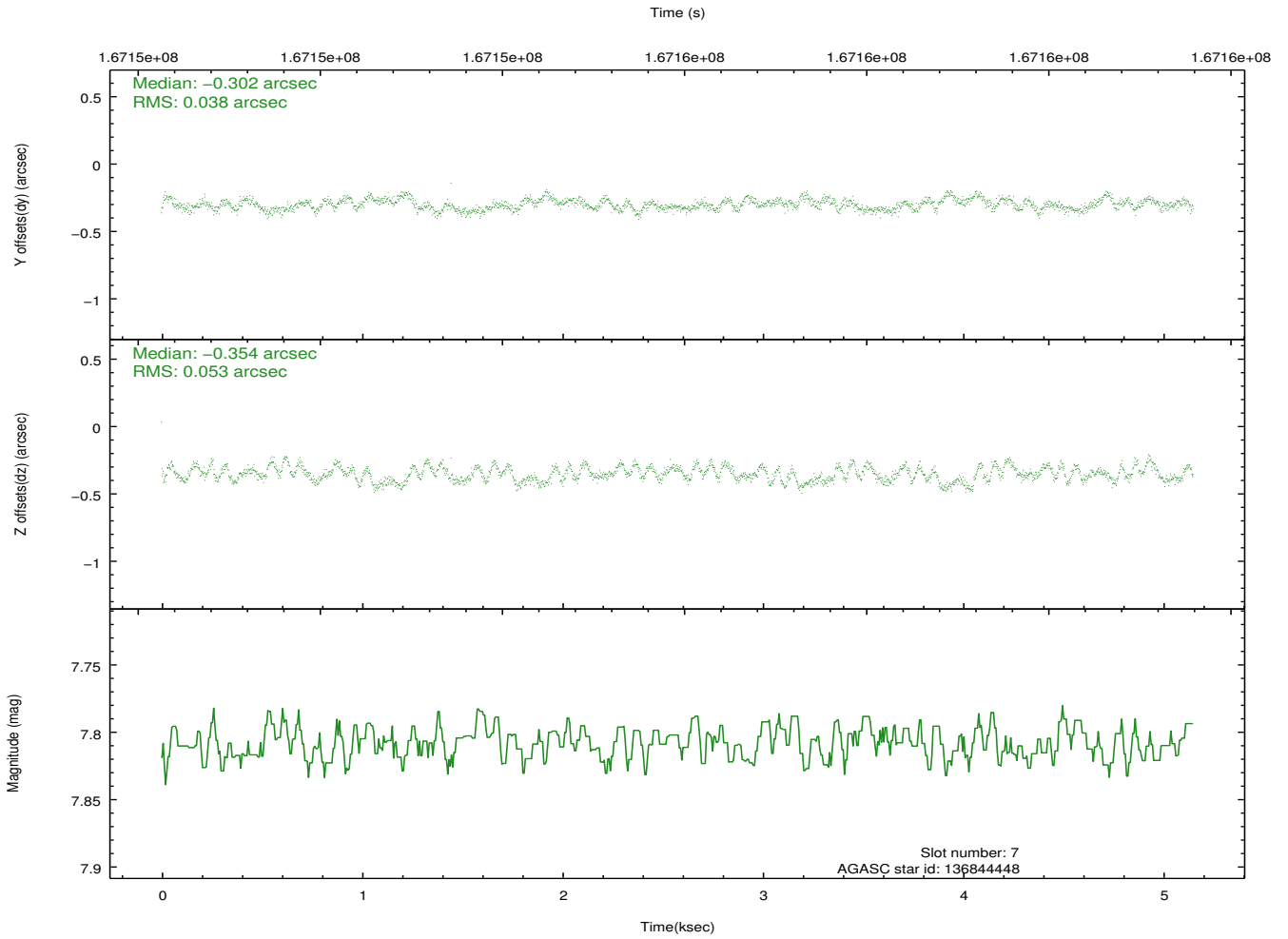
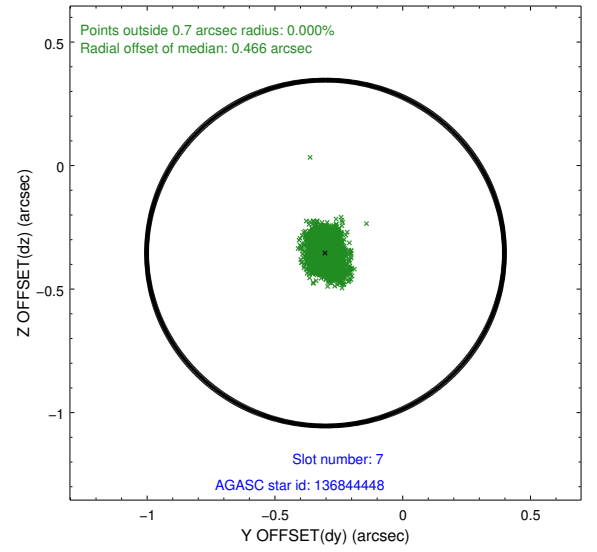
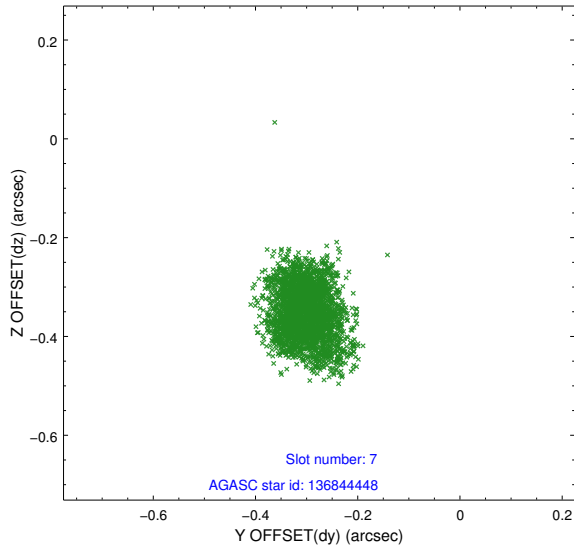
2.4.3 Slot 5



2.4.4 Slot 6

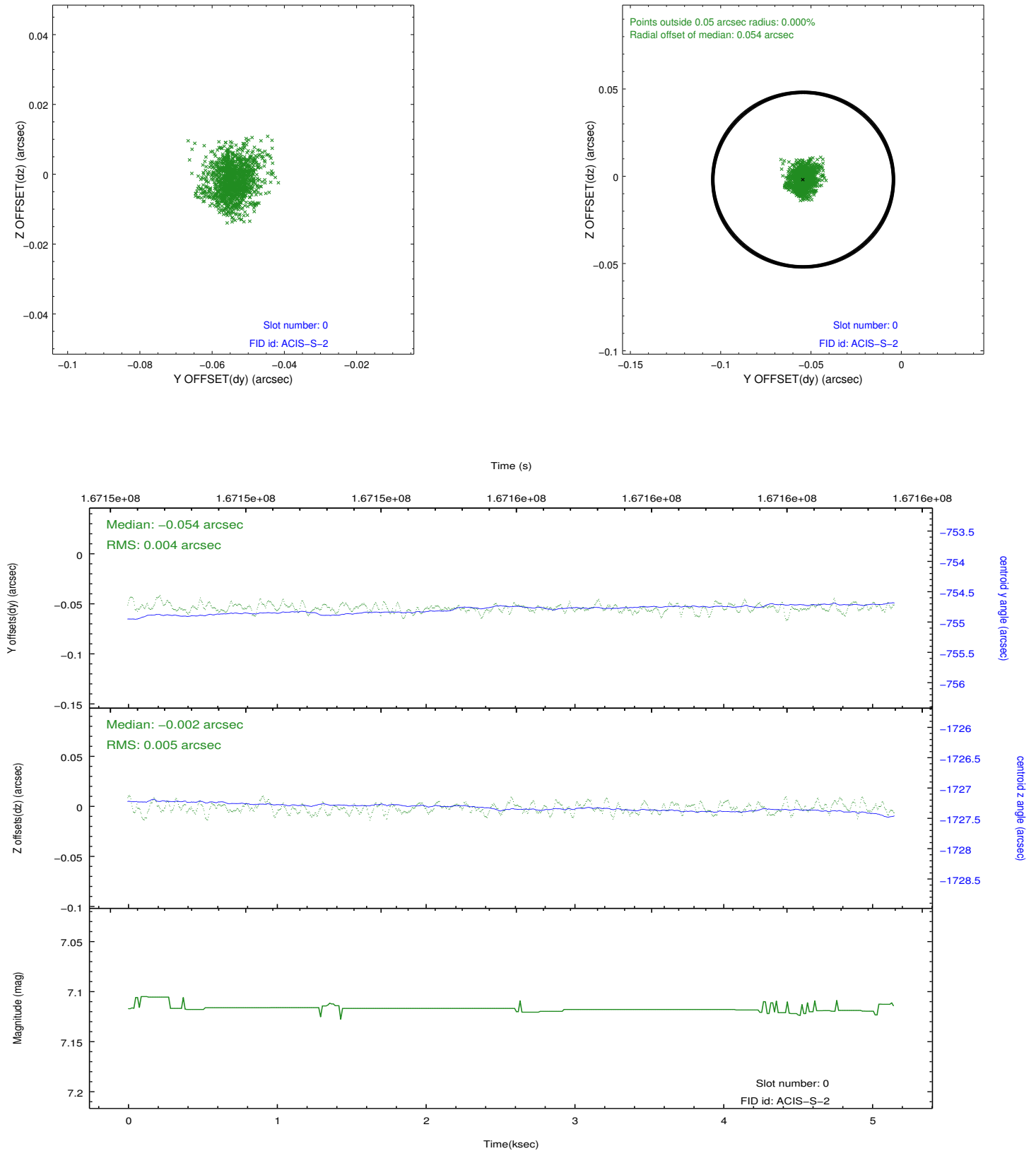


2.4.5 Slot 7

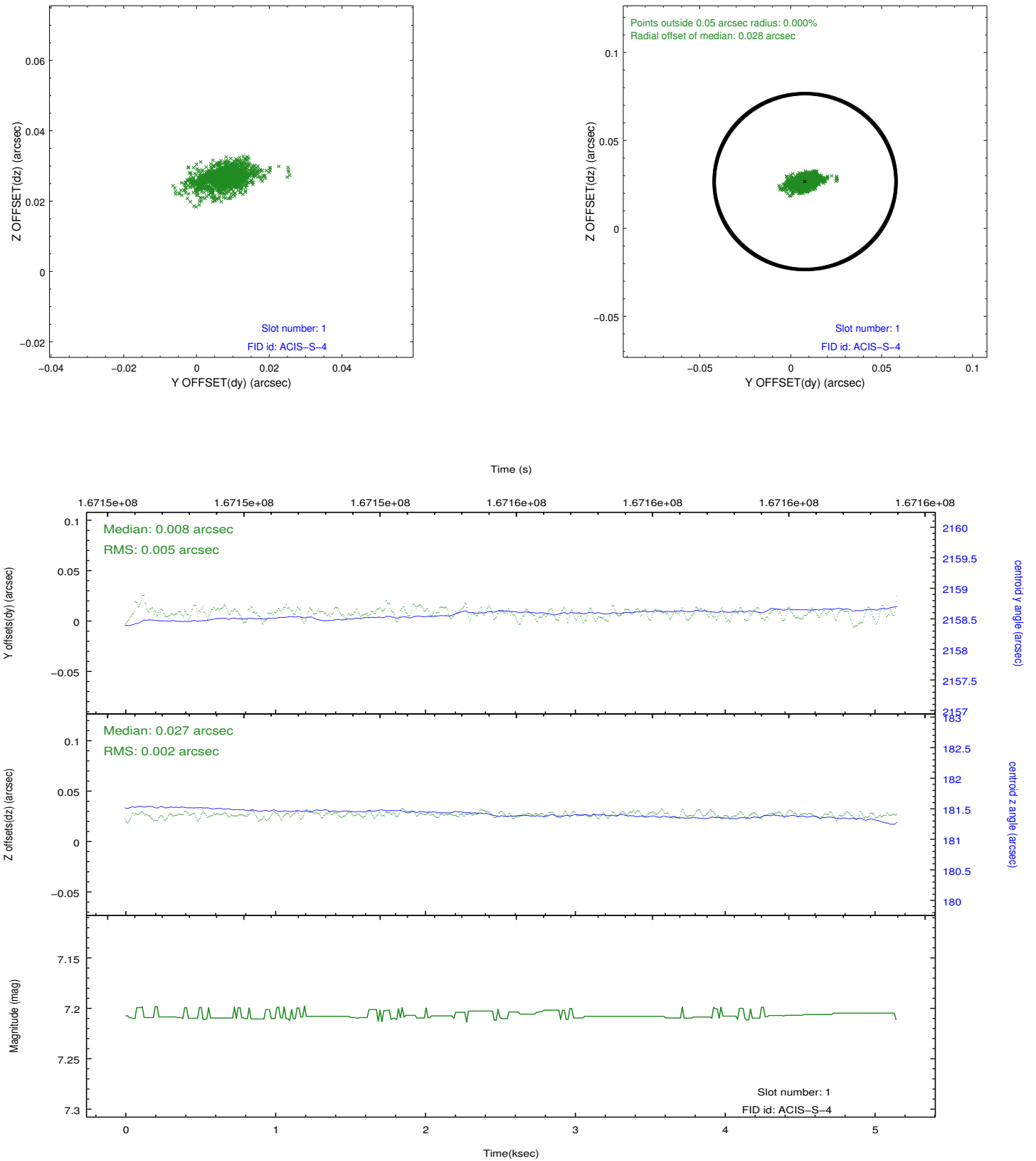


2.5 FID Slots

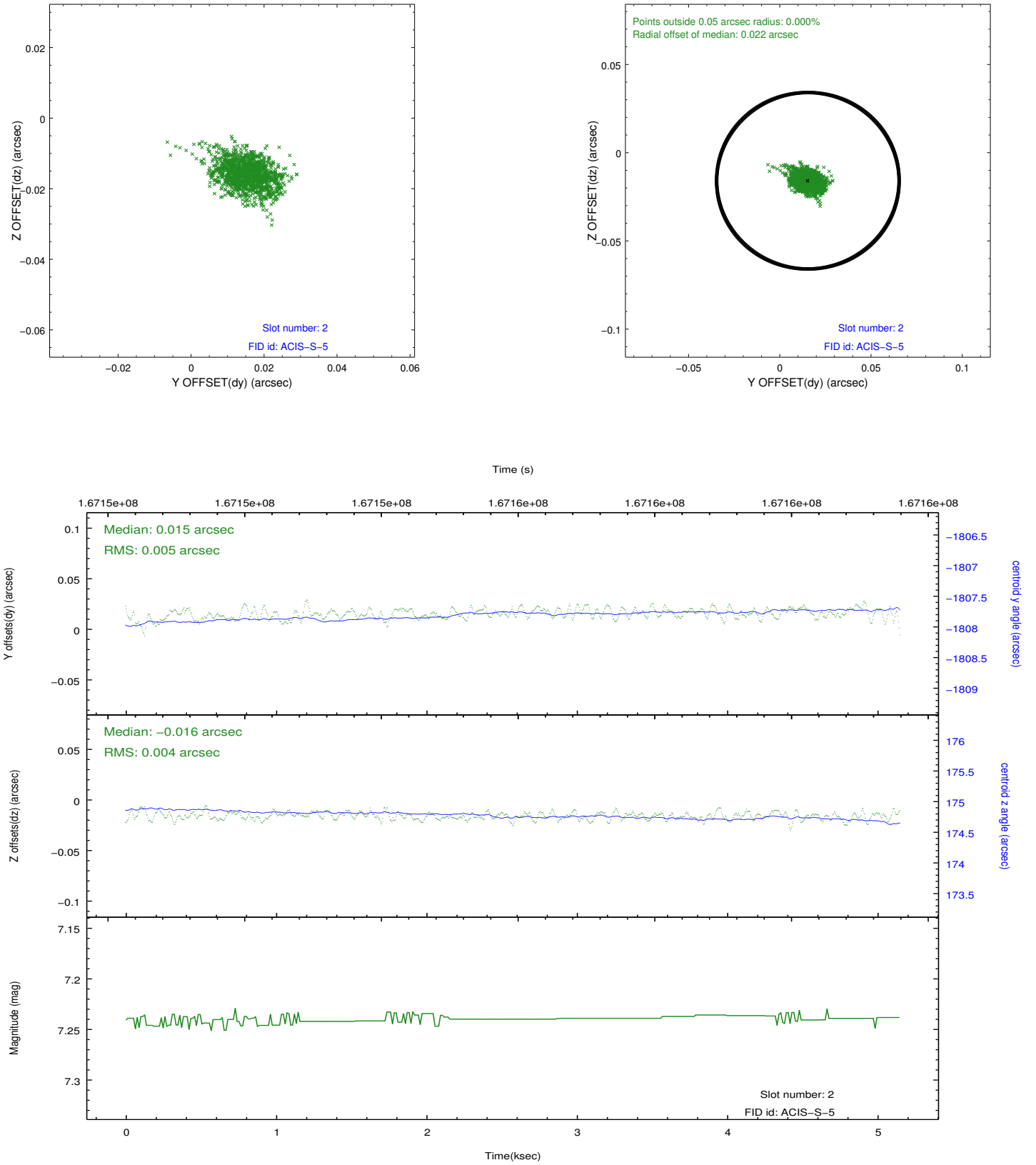
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.11.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.15 |

A.2 Comments