

V&V Reference Report

L2 ASCDS Version : 8.2.1

Observation 1169 - L2 Version 3
Chandra X-Ray Center

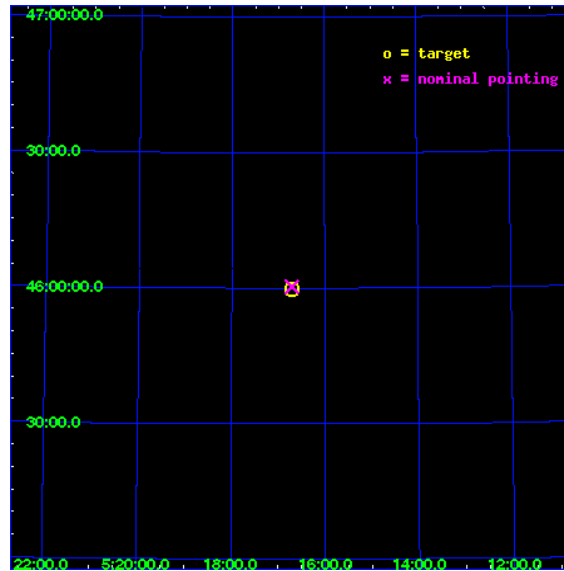
L2 Processing Date : Jan 13 2010

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Parameters | 4 |
| 2.1.3 | 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 |
| 3 | Gratings | 17 |
| 3.1 | LETG Arm | 17 |
| A | Summary | 19 |
| A.1 | Status | 19 |
| A.2 | Comments | 19 |

1 Front

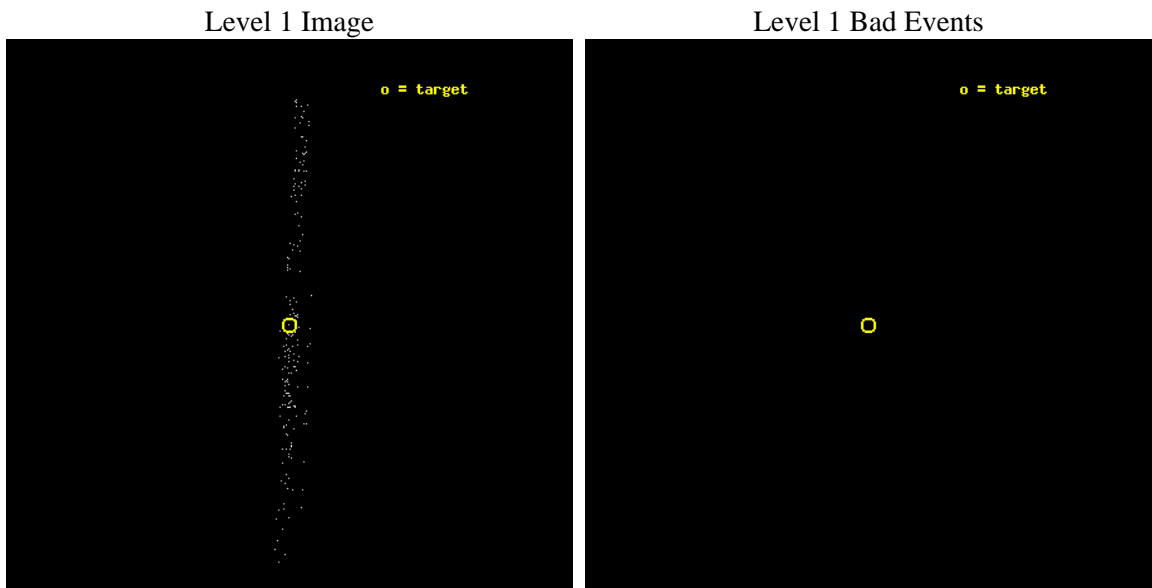
| | | |
|----------|---------------------|---------------------------------|
| seq_num | 280119 | Sequence number |
| obs_id | 1169 | Observation id |
| title | | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | CAPELLA | Source name |
| ra_targ | 79.17625 | Observer's specified target RA |
| dec_targ | 45.997889 | Observer's specified target Dec |
| ra_nom | 79.17660303629 | Nominal RA |
| dec_nom | 46.005047828643 | Nominal Dec |
| roll_nom | 92.707772437652 | Nominal Roll |
| revision | 3 | Processing version of data |
| ontime | 0.0 | [s] |
| livetime | 0.0 | Ontime multiplied by DTCOR |
| l2events | 0 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|--------------|-------------------------------------|
| obi_num | 1 | Obi number | sched_exp_time | 15000.000000 | Scheduled observation exposure time |
| ascdsver | 8.2.1 | Processing system revision | ontime | 0.0 | [s] |
| caldbver | 4.1.5 | | ll events | 194 | Number of level 1 events |
| date | 2010-01-13T10:04:19 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

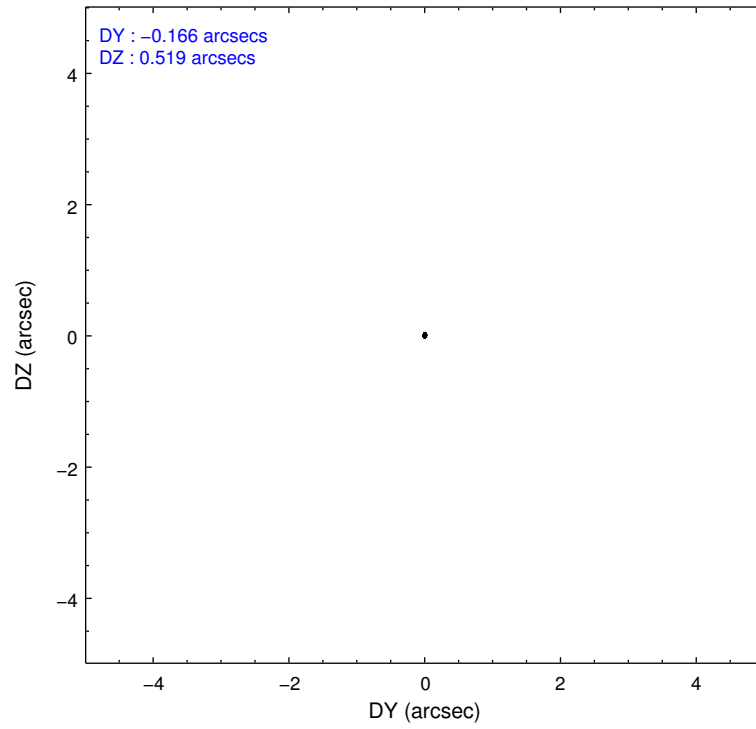
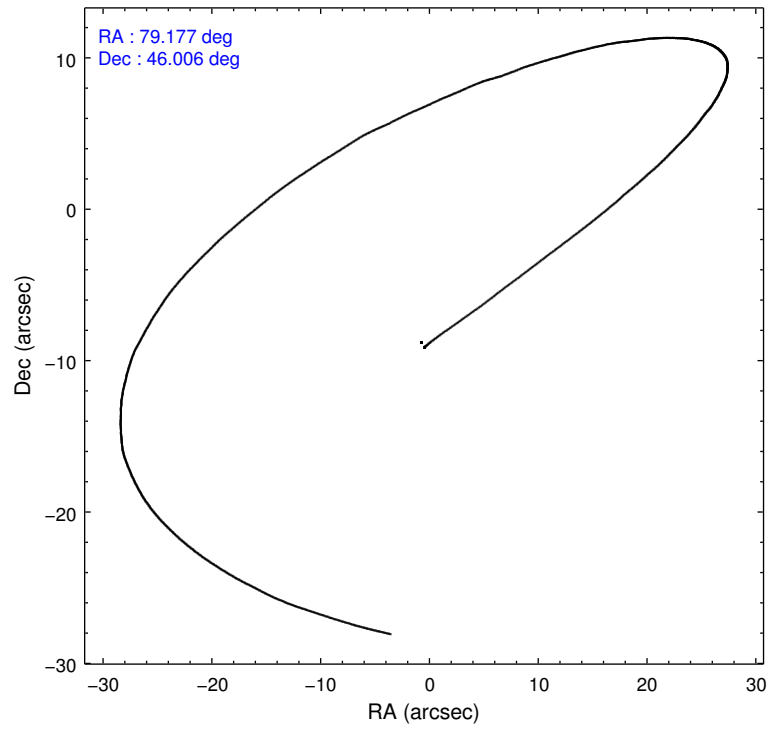
| | segment 1 | segment 2 | segment 3 |
|-----------------|--------------|--------------|--------------|
| level 1 events | 41 | 96 | 57 |
| rejected events | 0 | 0 | 0 |
| rejected % | 0% | 0% | 0% |

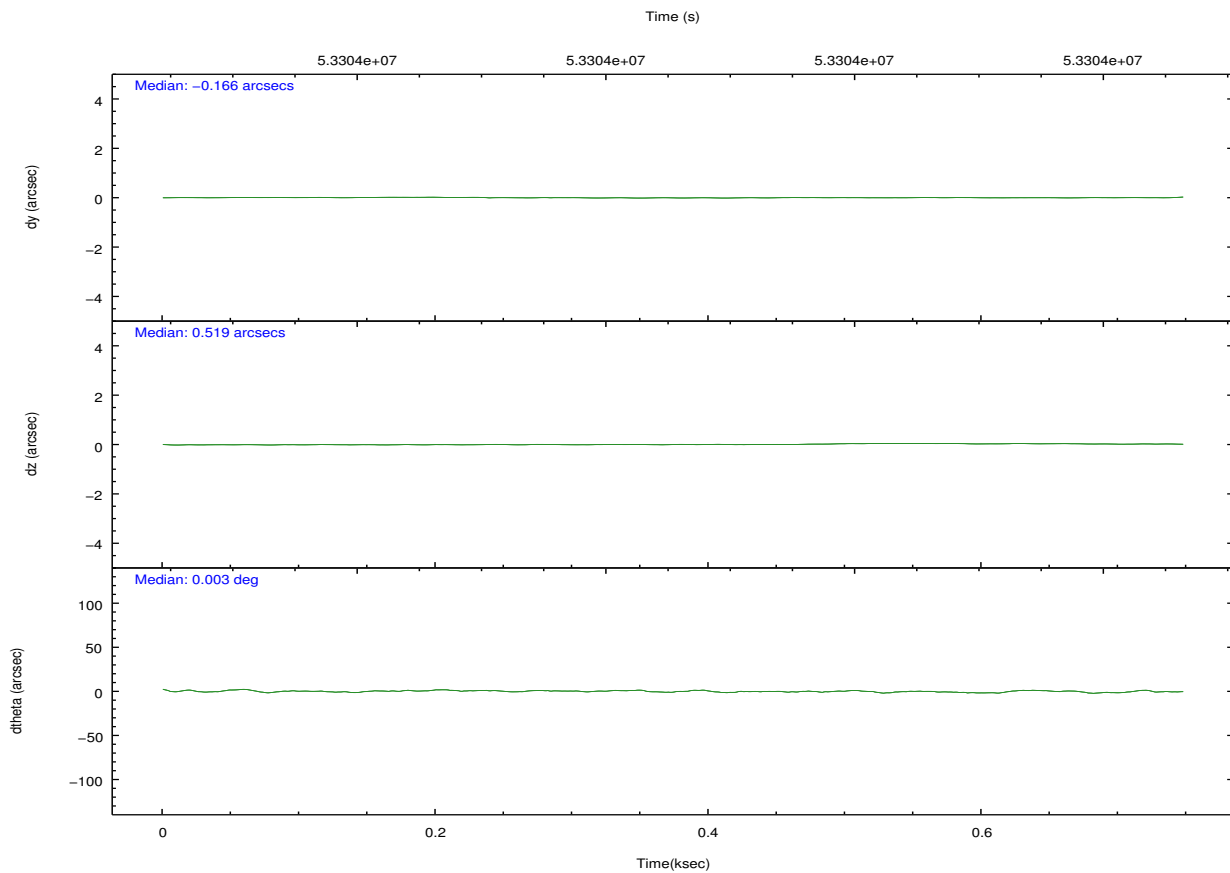
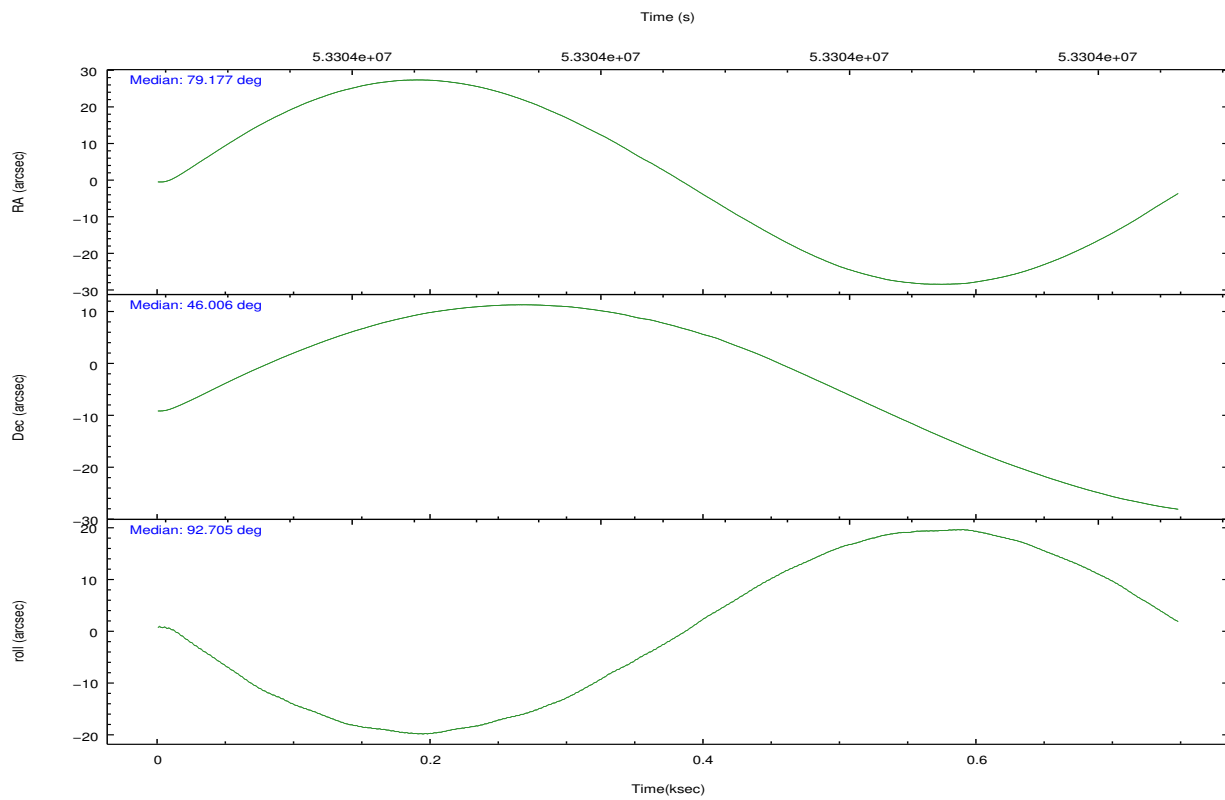
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | HRC | HRC |
| Detector | HRC-S | HRC-S |
| Grating | LETG | LETG |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| Pointing RA | 79.200054 | 79.17660303628953 |
| Pointing Dec | 45.979303 | 46.00504782864343 |
| Pointing Roll | 92.623559 | 92.70777243765228 |
| SIM focus pos (mm) | -1.229586 | -1.08446789718153 |
| SIM defocus (mm) | 0.3037507710433288 | 0.4488687422227668 |
| SIM translation stage pos (mm) | 250.455976 | 250.466033080201 |
| SIM translation stage offset (mm) | 0 | -0.01005468664627074 |
| Observation start time | 53304164.184000 | 53303497.965056 |
| Observation start date | 1999-09-09T22:41:40 | 1999-09-09T22:31:37 |
| Observation end time | 53319164.184000 | 53304430.202589 |
| Observation end date | 1999-09-10T02:51:40 | 1999-09-09T22:47:10 |

| Parameter | Planned | Actual |
|------------------------------|-----------|---------|
| Obspar format version number | 6 | 6 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |

2.3 Aspect



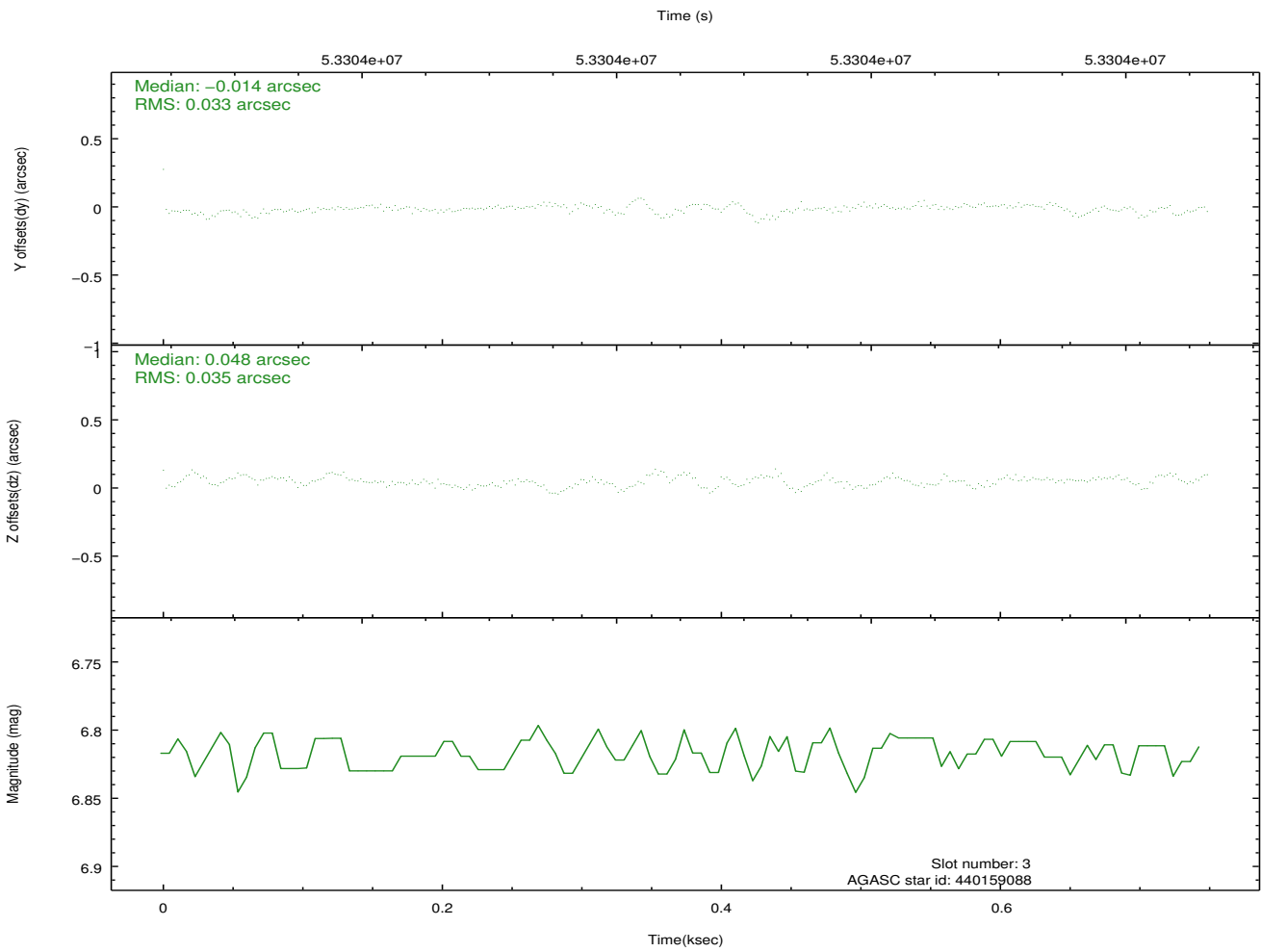
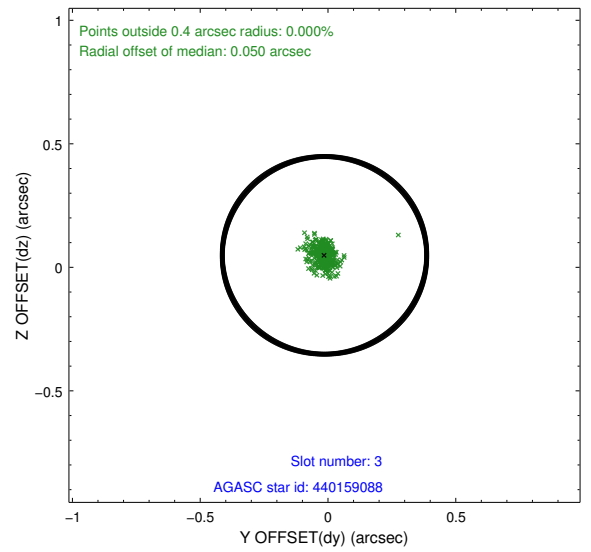
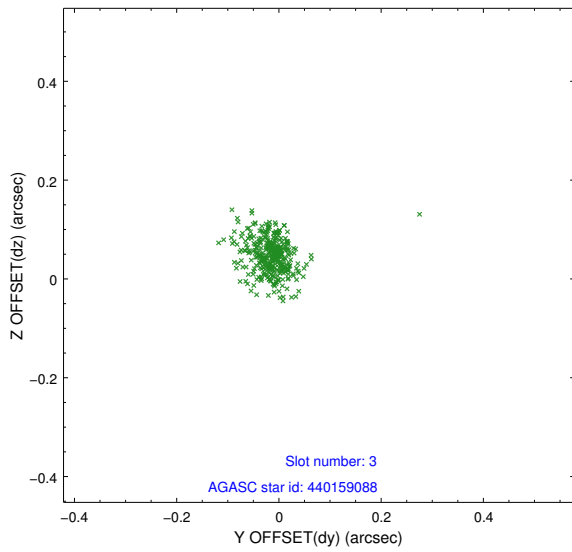


Slot Statistics

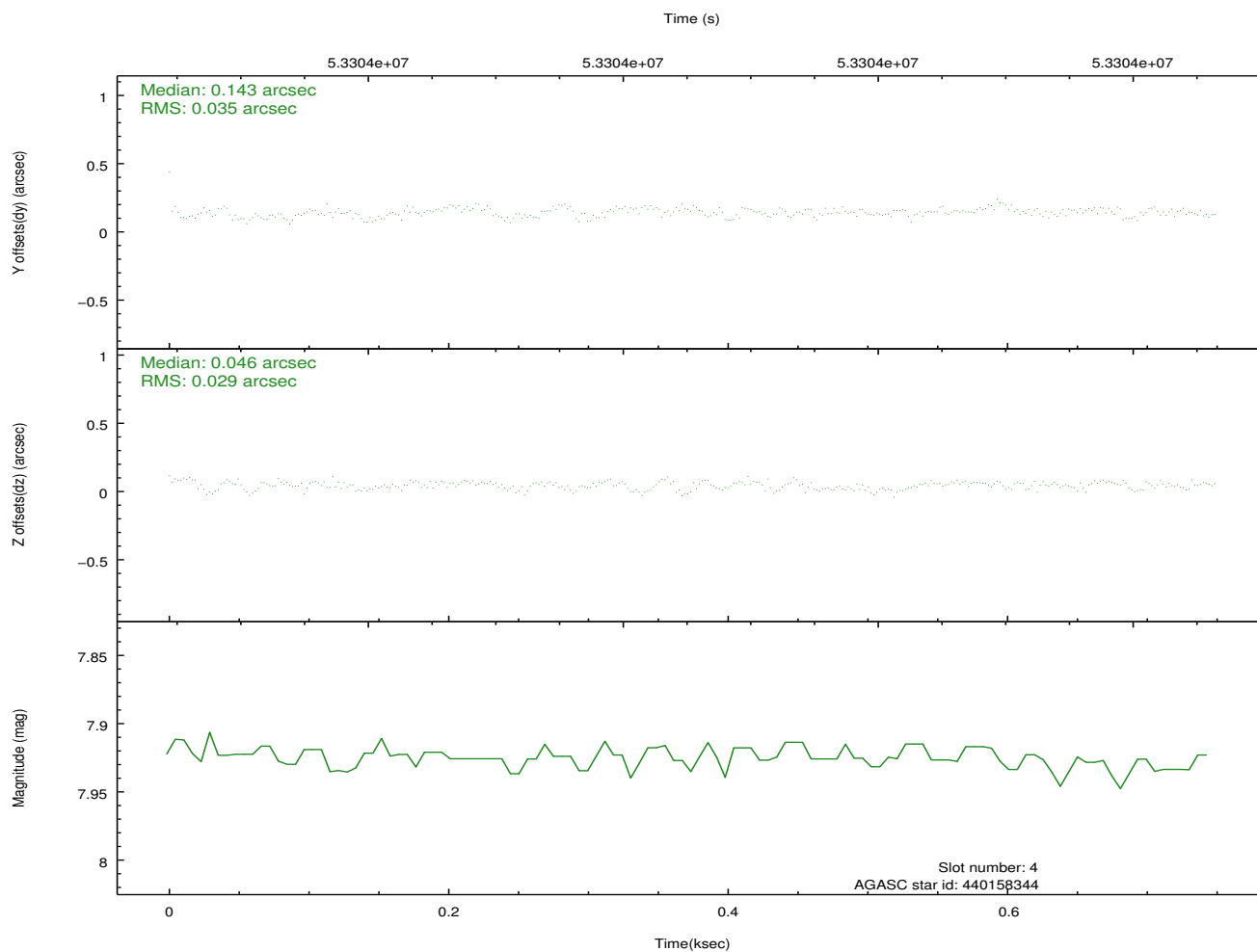
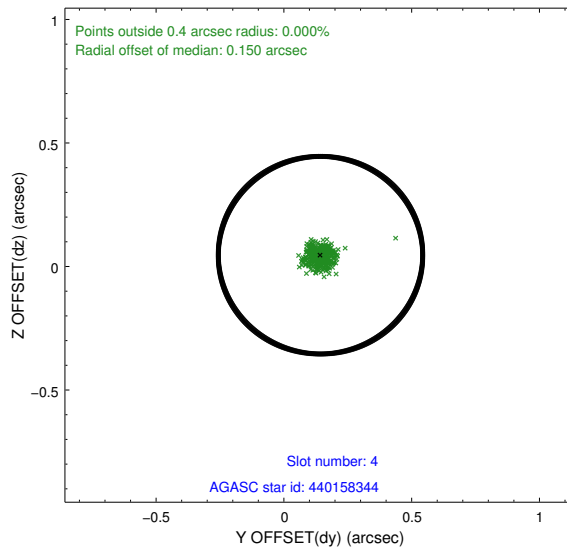
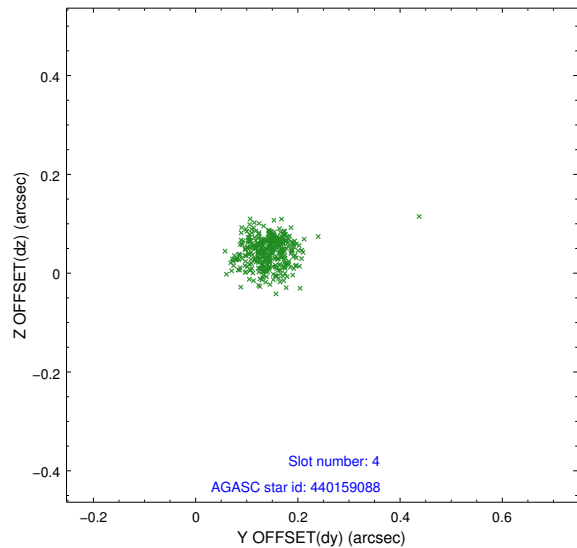
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 6.96 | 366 | 0.140 | -0.085 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1153.90 | -448.73 |
| 1 | FID | HRC-S-3 | 6.97 | 366 | 0.115 | -0.107 | 0.008 | 0.013 | 0.000000 | 0.000000 | -1159.69 | 579.59 |
| 2 | FID | HRC-S-4 | 6.94 | 366 | 0.133 | -0.104 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1241.37 | 584.71 |
| 3 | GUIDE | 440159088 | 6.82 | 366 | -0.014 | 0.048 | 0.048 | 0.082 | 79.453034 | 46.128063 | 501.59 | -654.48 |
| 4 | GUIDE | 440158344 | 7.93 | 366 | 0.143 | 0.046 | 0.045 | 0.071 | 79.344888 | 45.394991 | -2121.71 | -270.79 |
| 5 | GUIDE | 440149808 | 8.41 | 366 | -0.046 | -0.083 | 0.053 | 0.087 | 78.873930 | 46.405955 | 1561.68 | 738.11 |
| 6 | GUIDE | 438438936 | 8.97 | 364 | -0.147 | -0.102 | 0.077 | 0.131 | 78.241026 | 46.550197 | 2174.77 | 2279.68 |
| 7 | GUIDE | 440145944 | 9.09 | 364 | 0.090 | 0.097 | 0.083 | 0.136 | 80.083717 | 45.428844 | -2068.92 | -2133.35 |

2.4 Star Slots

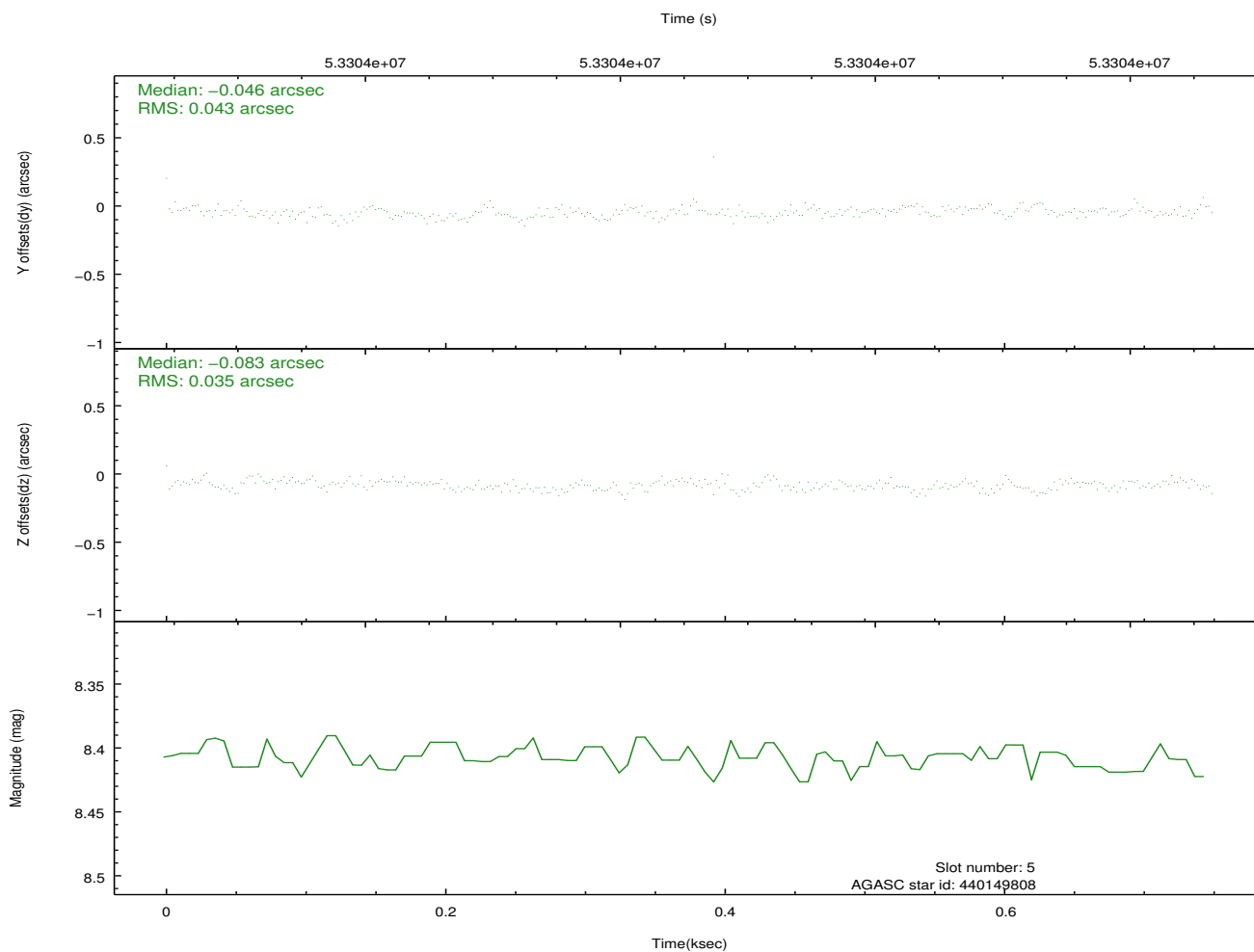
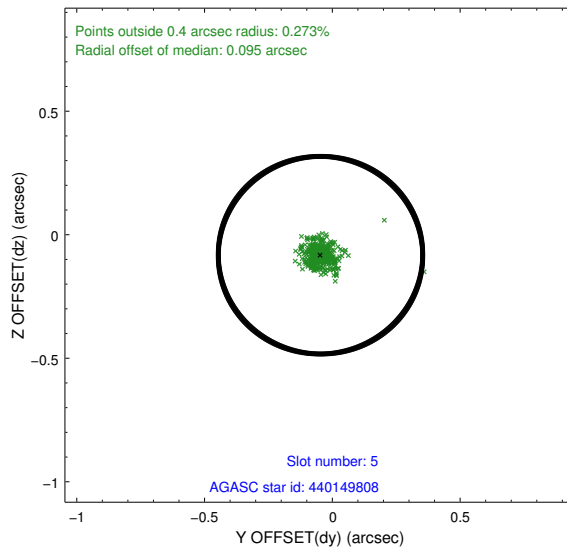
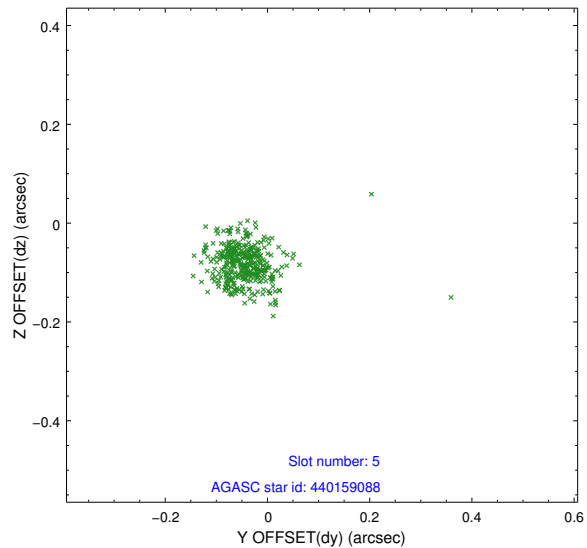
2.4.1 Slot 3



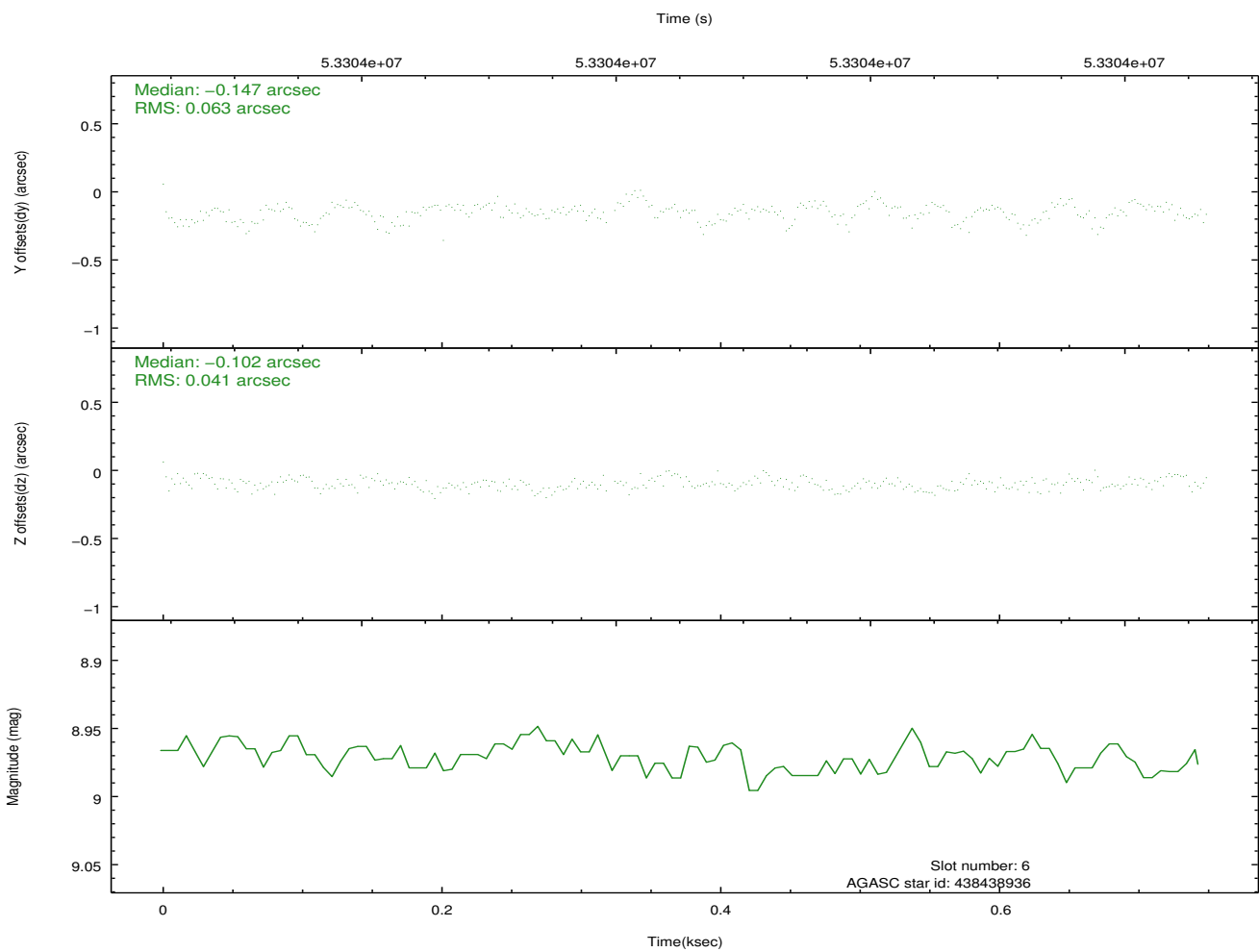
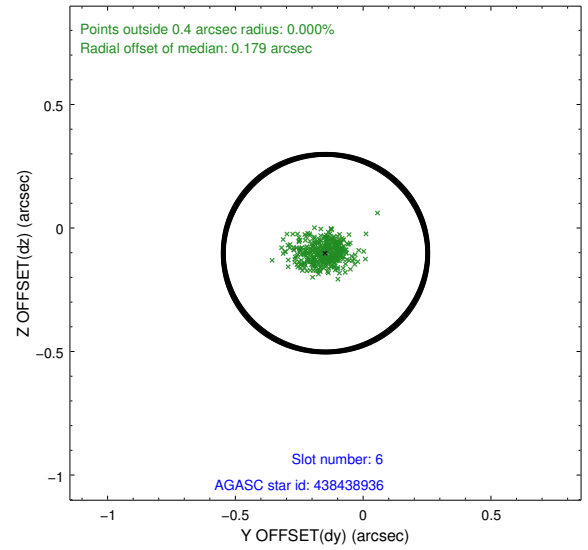
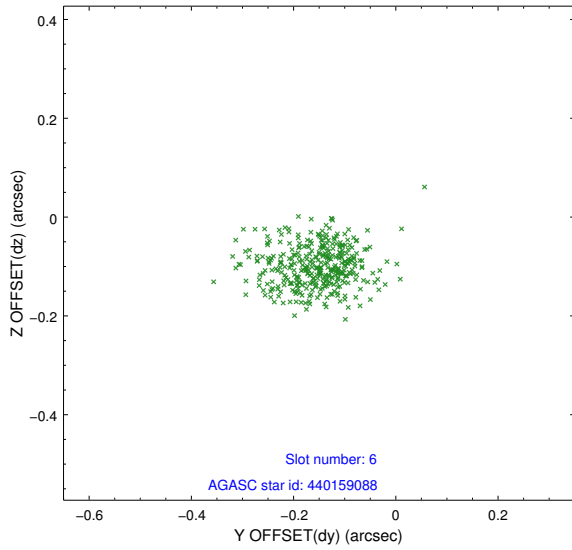
2.4.2 Slot 4



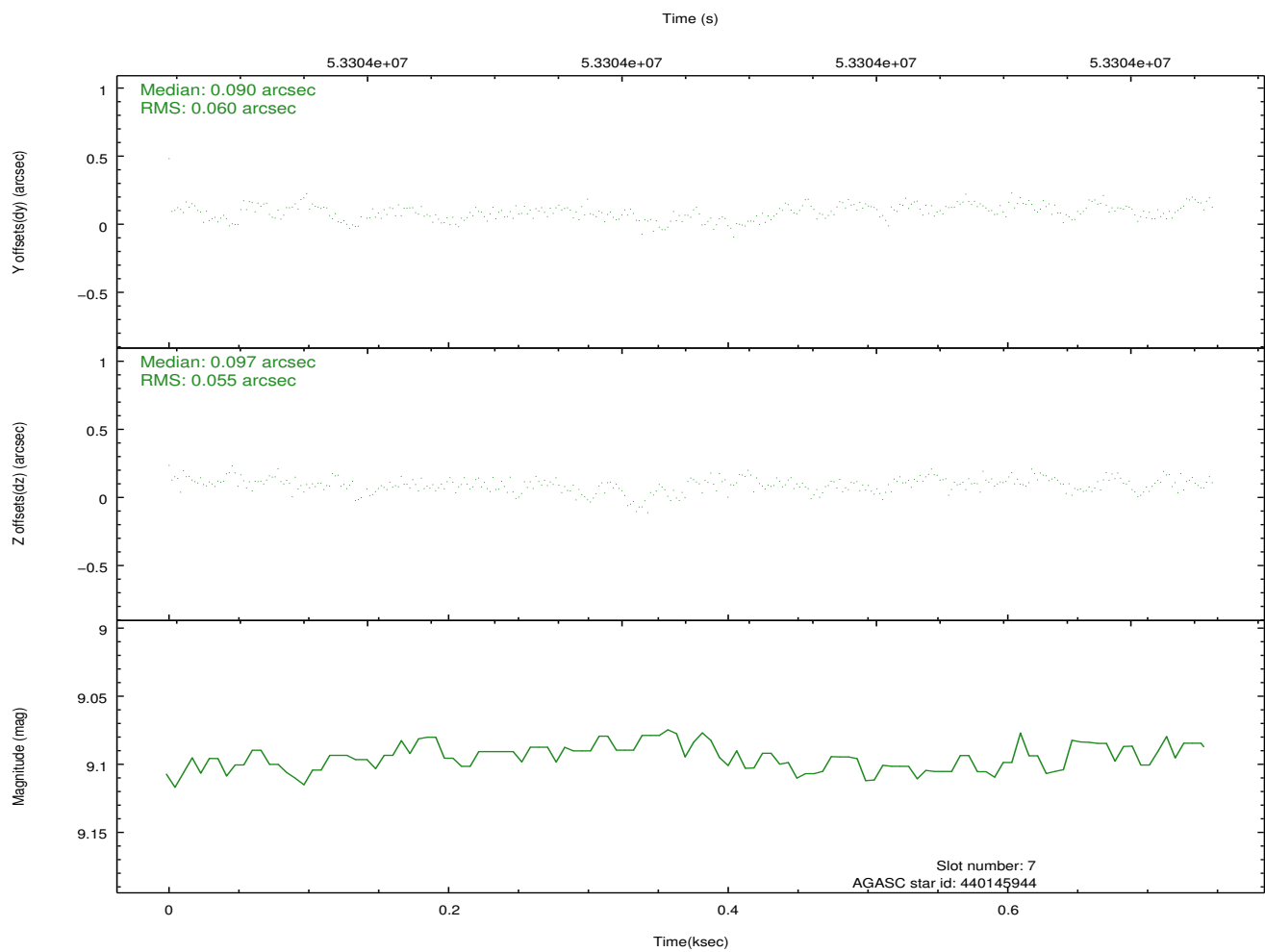
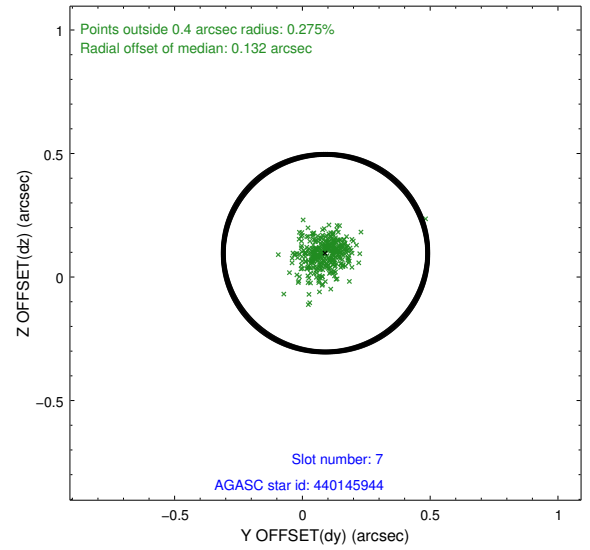
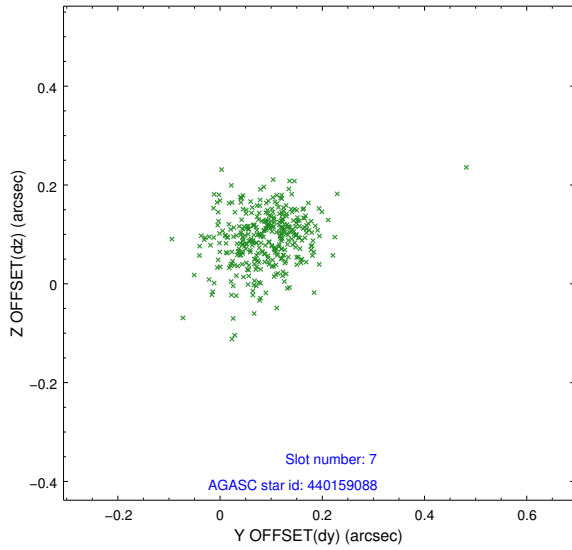
2.4.3 Slot 5



2.4.4 Slot 6

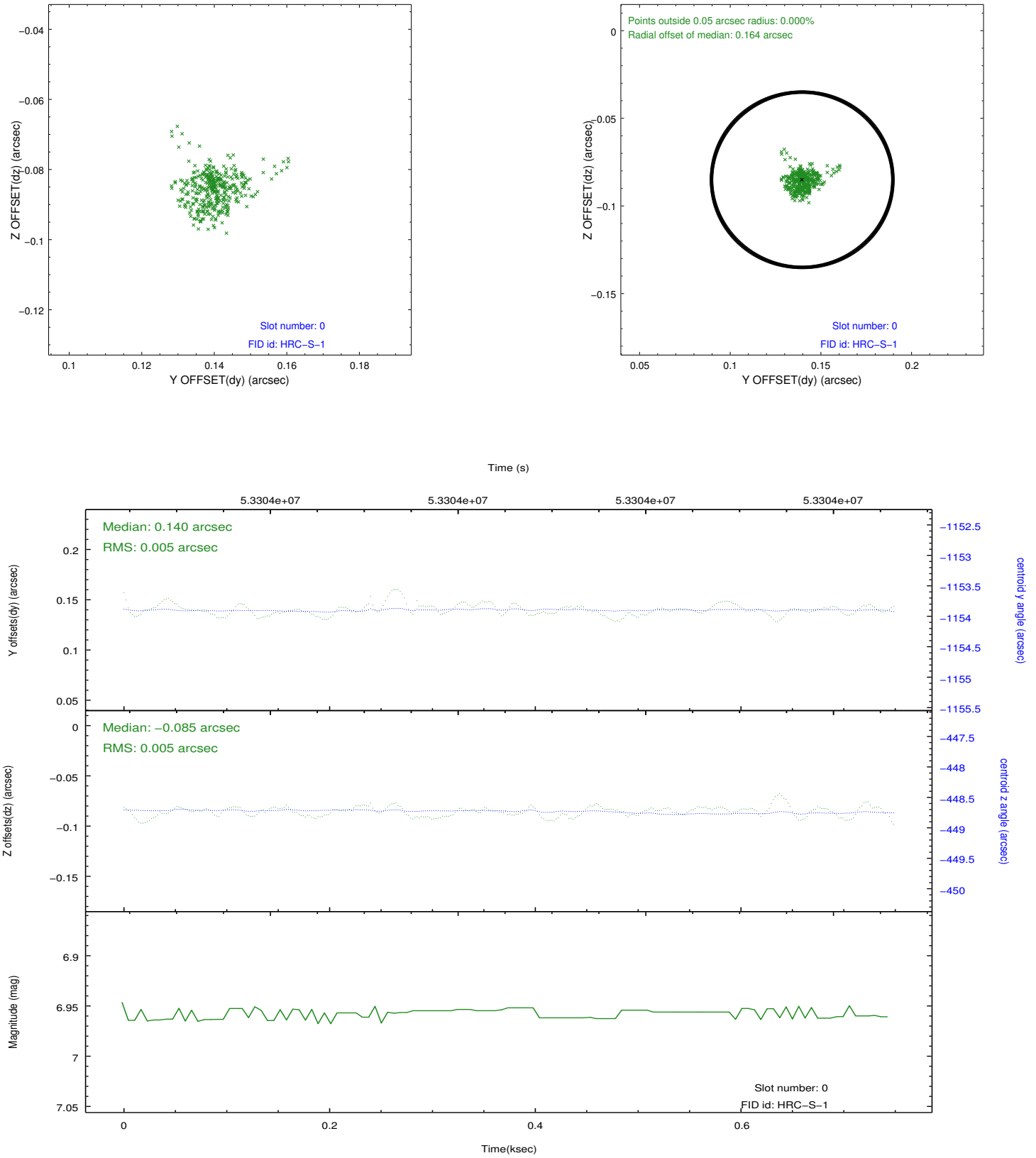


2.4.5 Slot 7

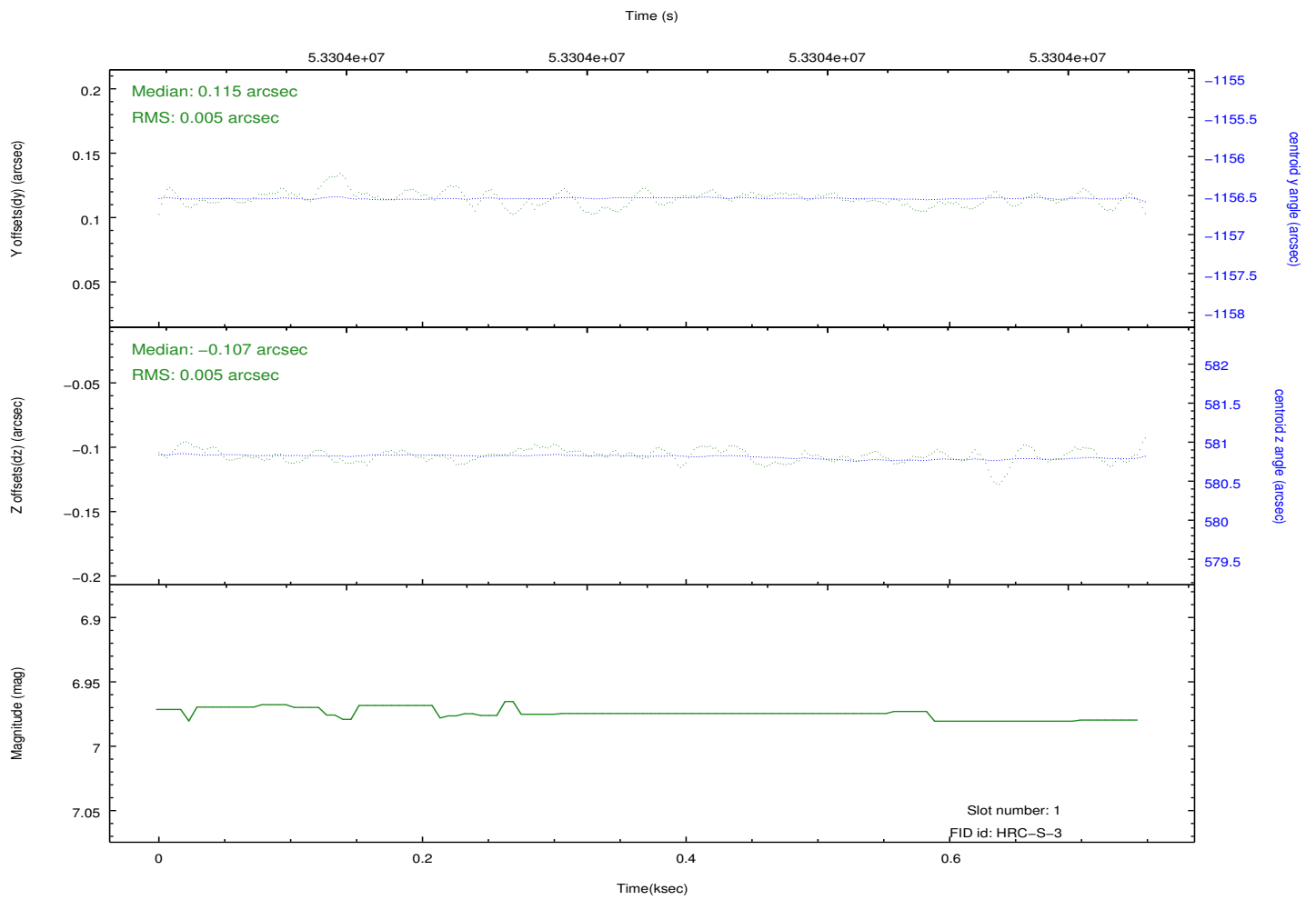
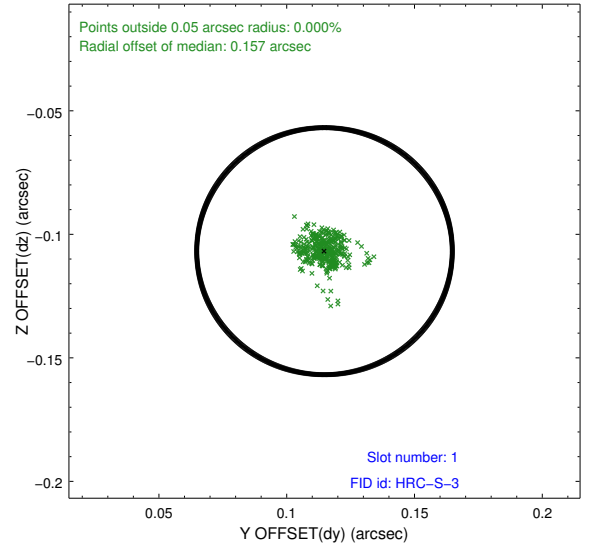
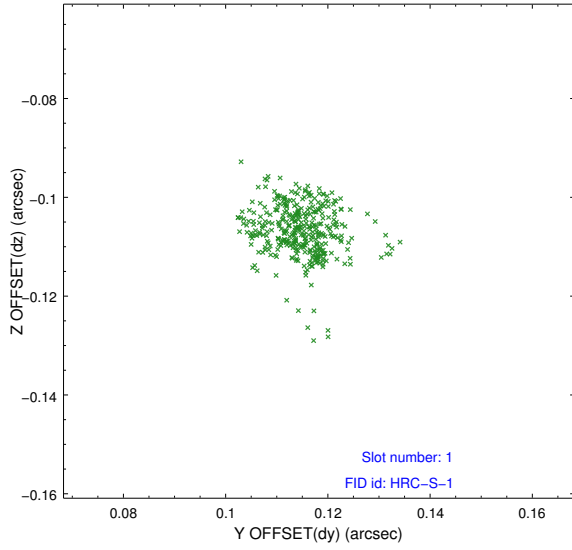


2.5 FID Slots

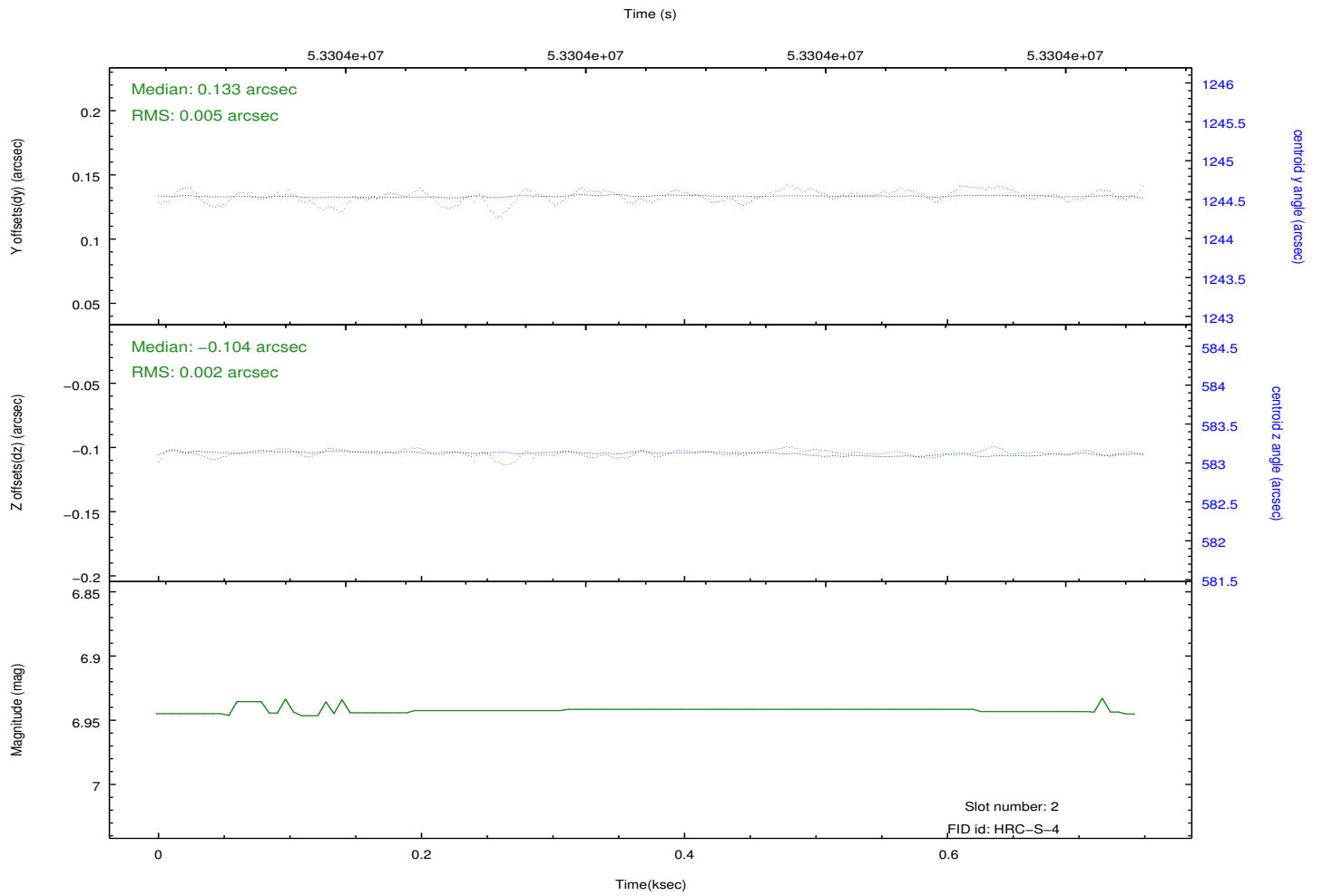
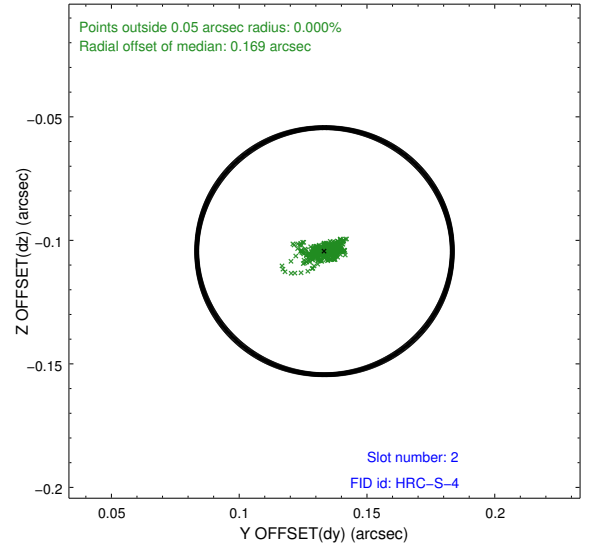
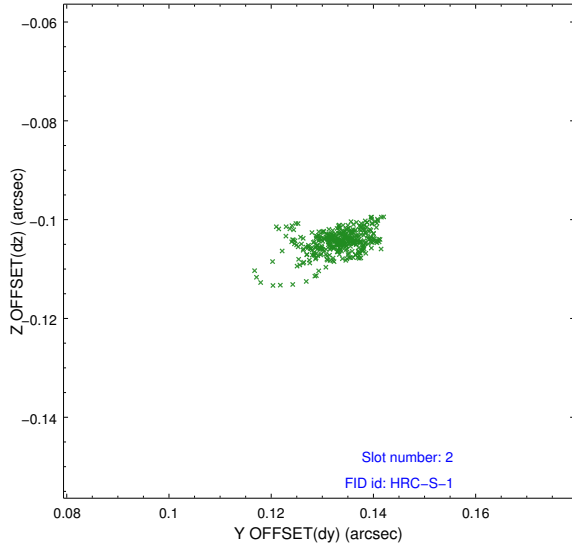
2.5.1 Slot 0



2.5.2 Slot 1

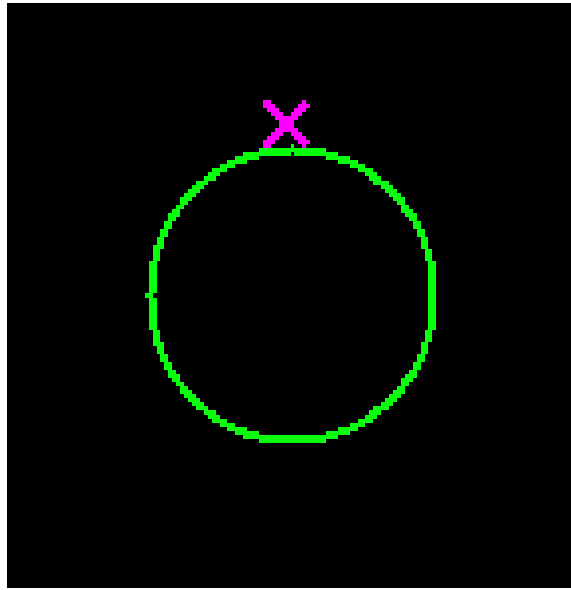


2.5.3 Slot 2

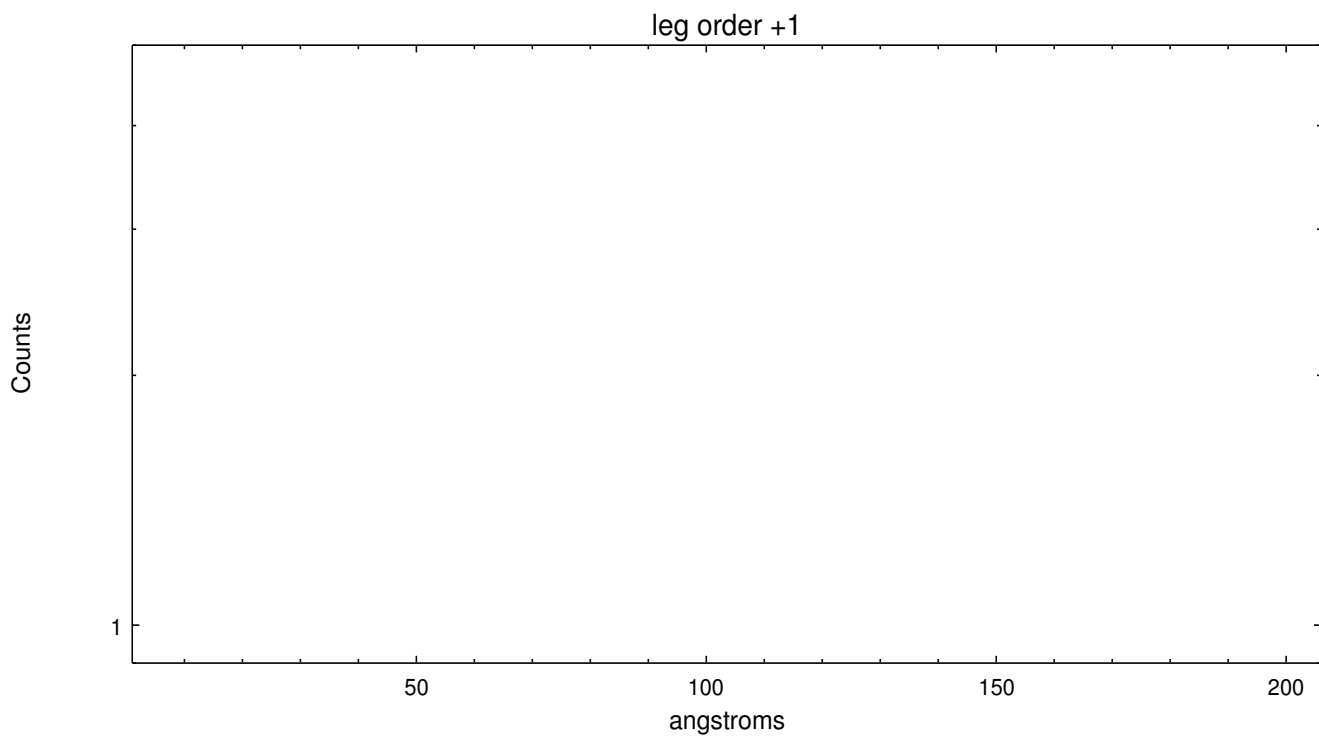
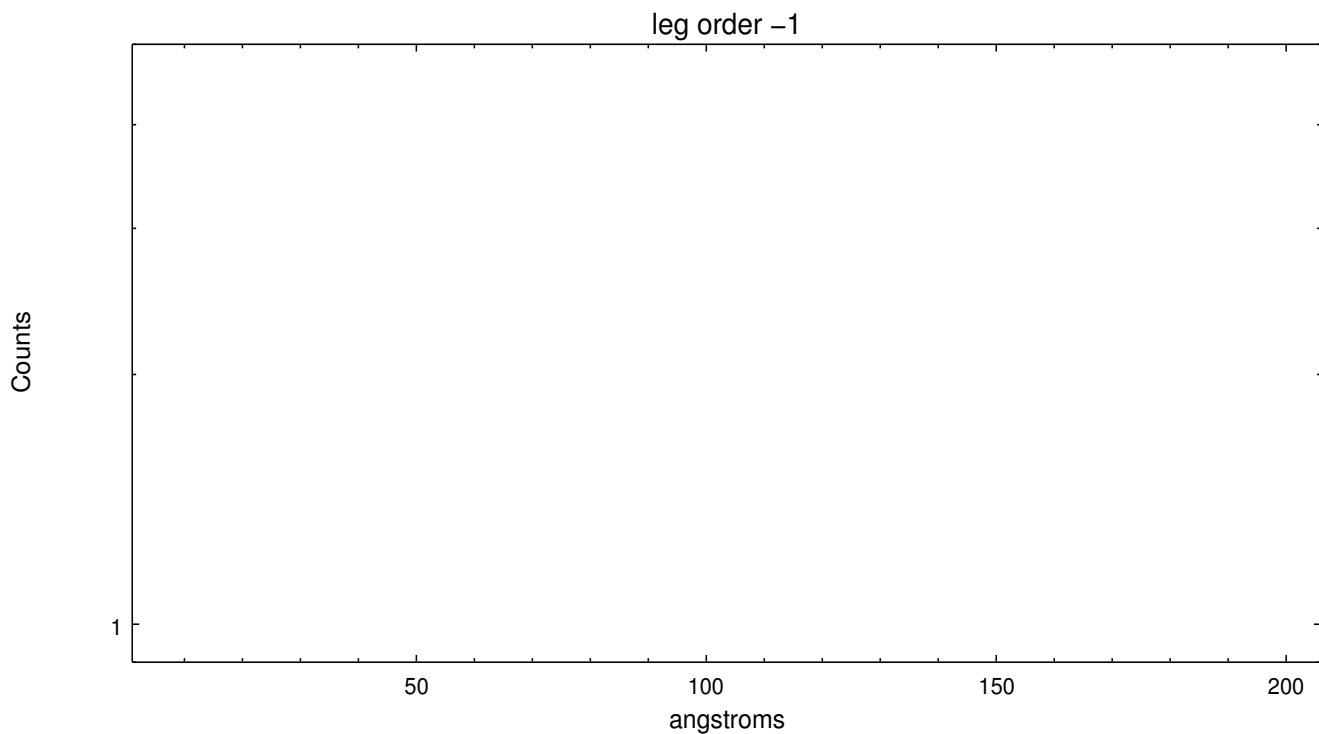


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2010.04.20 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 15 |

A.2 Comments

Charge time for this ObsId remains at original value of 15.00 ks, although with the current processing the charge time would have been 0 ksec.

====

Due to an ACIS anomaly, most of the time assigned to this obsid was taken for ACIS diagnostics. This observation was then repeated as obsid 62410.

There are no Level 2 events and only a few Level 1 events in this observation.