

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2479 - L2 Version 001
Chandra X-Ray Center

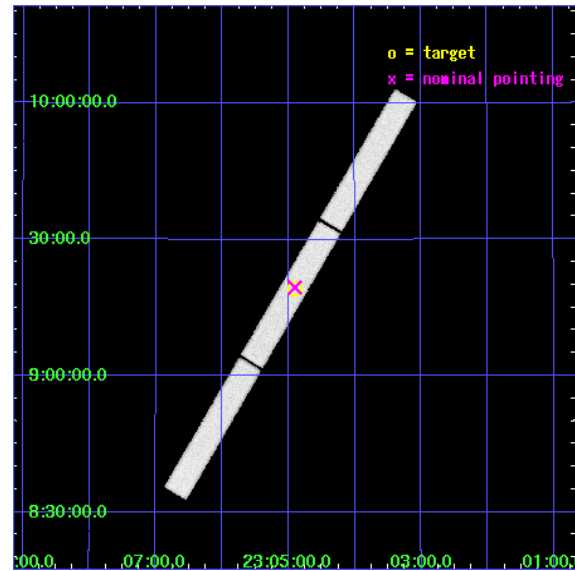
L2 Processing Date : Dec 11 2006

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1 Front

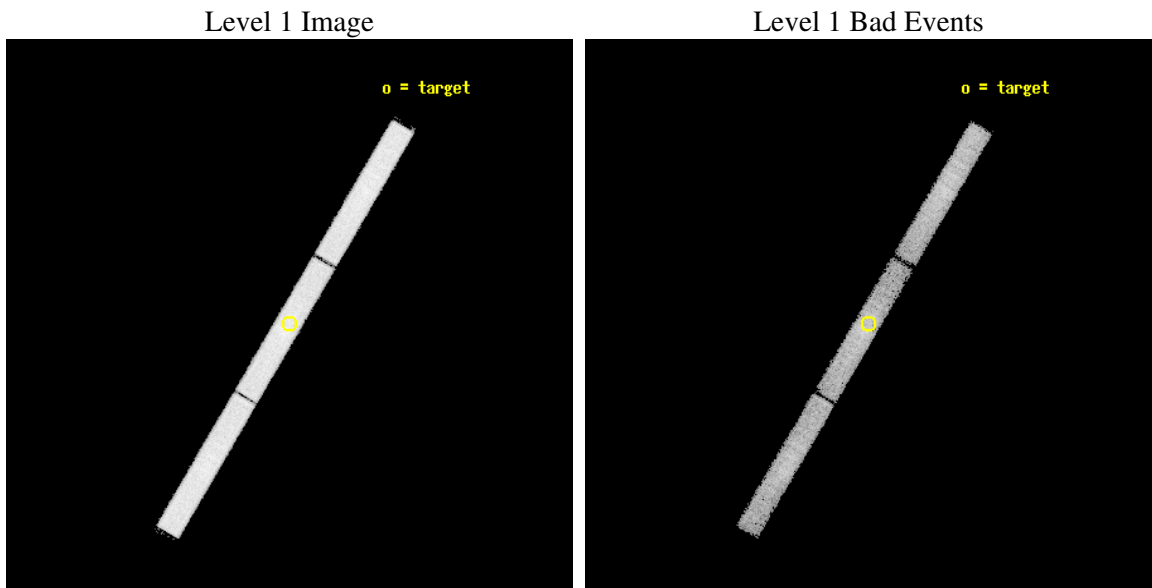
| | |
|----------|---|
| seq_num | 100008 |
| obs_id | 2479 |
| title | SOLVING THE PUZZLE OF COMETARY X-RAY ORIGIN: OBSERVATIONS OF COMET 10P/TEMPEL 2 |
| observer | DR W. THOMAS VESTRAND |
| object | LINEAR 2001 A2 |
| ra_targ | 346.22815 |
| dec_targ | 9.32085 |
| ra_nom | 346.22587563375 |
| dec_nom | 9.3244913011324 |
| roll_nom | 120.40746433174 |
| revision | 2 |
| ontime | 2394.6563436687 |
| livetime | 2378.1248991731 |
| l2events | 140420 |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldbver | 3.2.4 |
| date | 2006-12-12T00:19:33 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 2250.000000 |
| ontime | 2432.3250951469 |
| l1events | 243549 |

2.1.3 Events

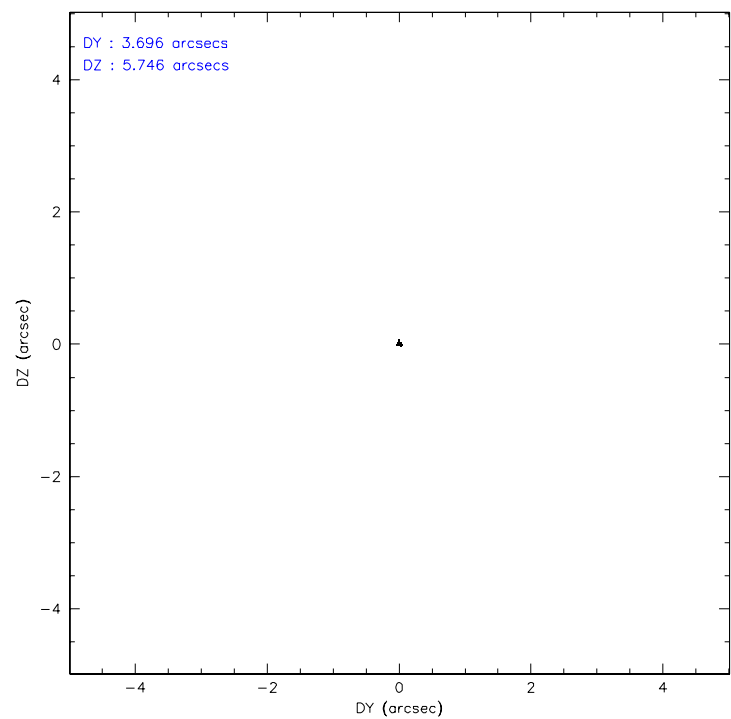
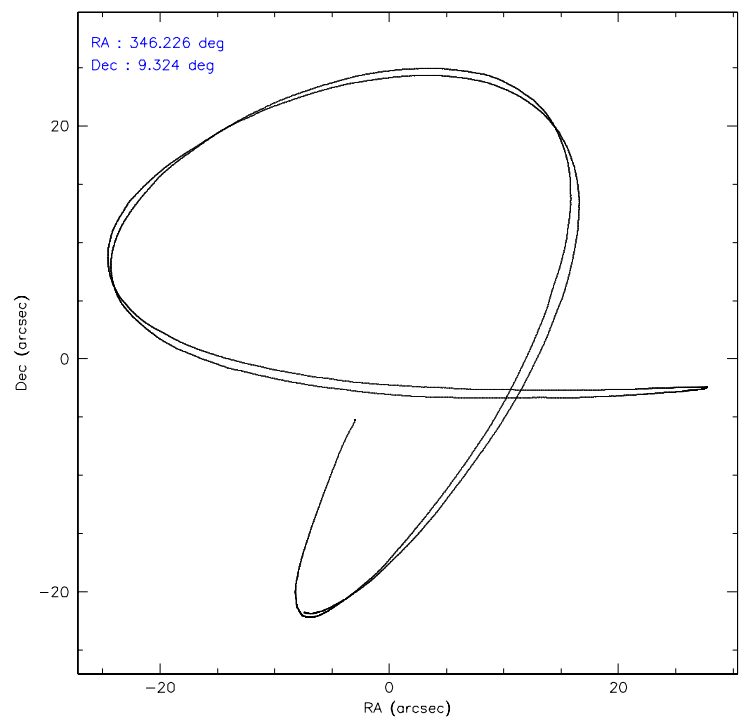
Level 1 Events

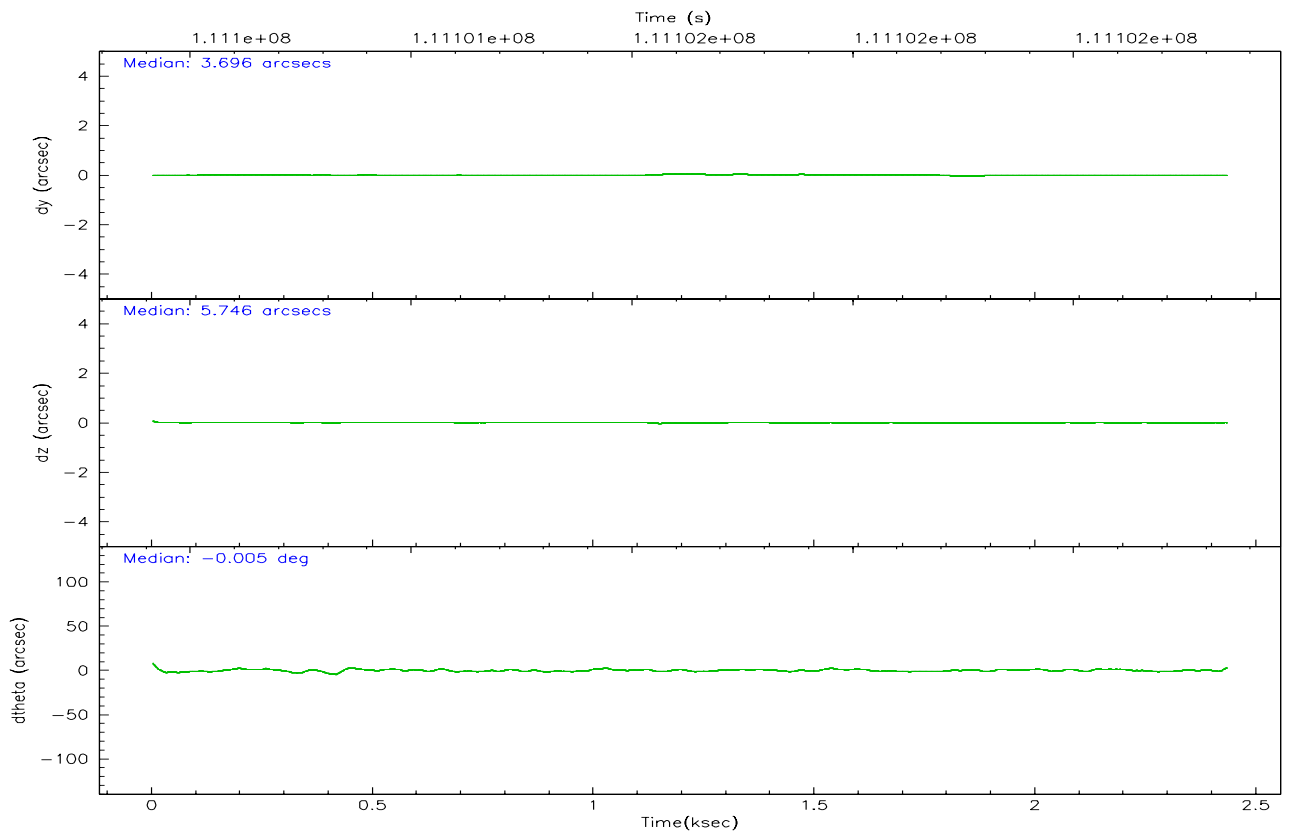
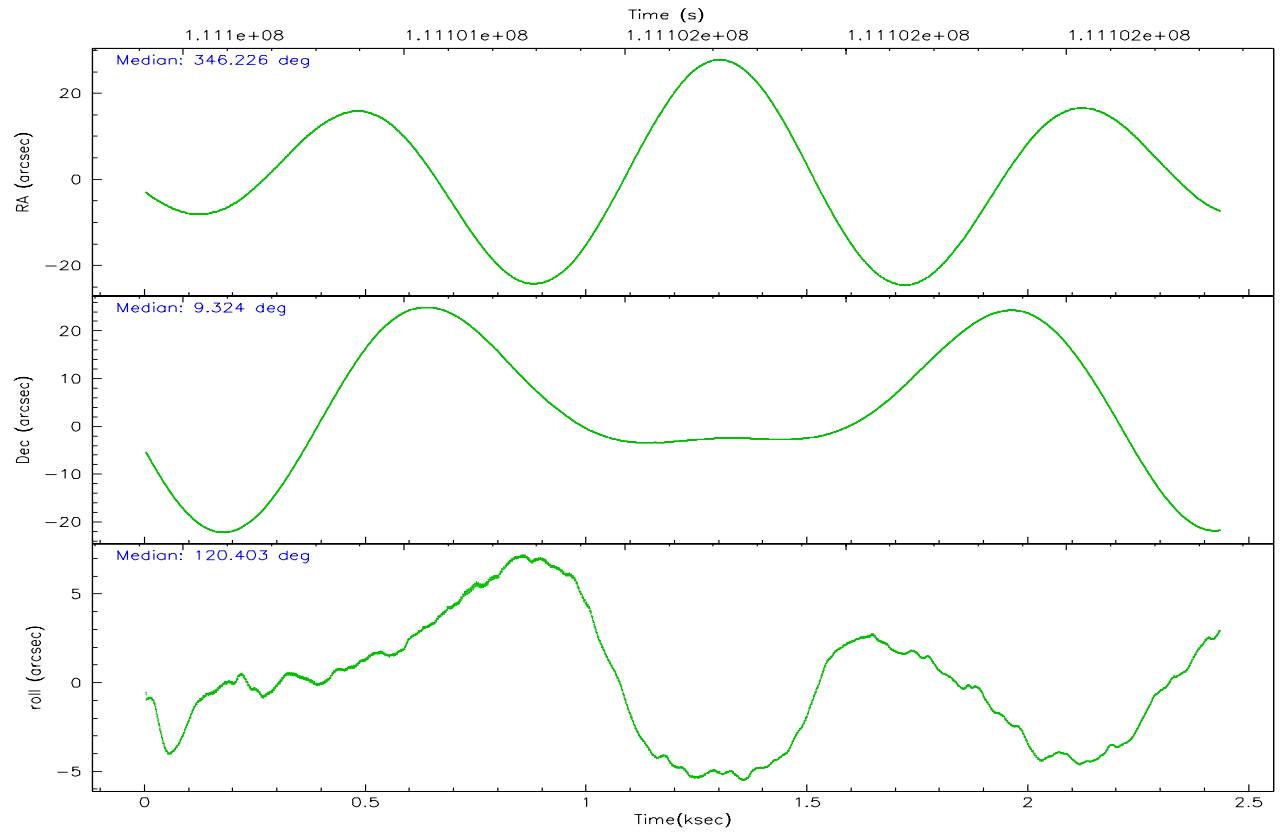
| | segment 1 | segment 2 | segment 3 |
|--------------------|----------------------|----------------------|----------------------|
| level 1 events | 81337 | 79488 | 82724 |
| rejected events | 26672 | 27493 | 30536 |
| rejected % | 32% | 34% | 36% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 6 | 6 |
| Detector | HRC-S | HRC-S | Obspar file type | PREDICTED | ACTUAL |
| Grating | LETG | LETG | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| Pointing RA | 346.251746 | 346.2258756337491 | | | |
| Pointing Dec | 9.312074 | 9.324491301132396 | | | |
| Pointing Roll | 120.335951 | 120.4074643317422 | | | |
| SIM focus pos (mm) | -1.429586 | -1.428180813131781 | | | |
| SIM defocus (mm) | 0.1037507710433287 | 0.1051558262725154 | | | |
| SIM translation stage pos (mm) | 250.455976 | 250.466033080201 | | | |
| SIM translation stage offset (mm) | 0 | -0.01005468664627074 | | | |
| Observation start time | 111100602.184000 | 111100225.41167 | | | |
| Observation start date | 2001-07-09T21:15:38 | 2001-07-09T21:10:25 | | | |
| Observation end time | 111102852.184000 | 111102985.73678 | | | |
| Observation end date | 2001-07-09T21:53:08 | 2001-07-09T21:56:25 | | | |

2.3 Aspect



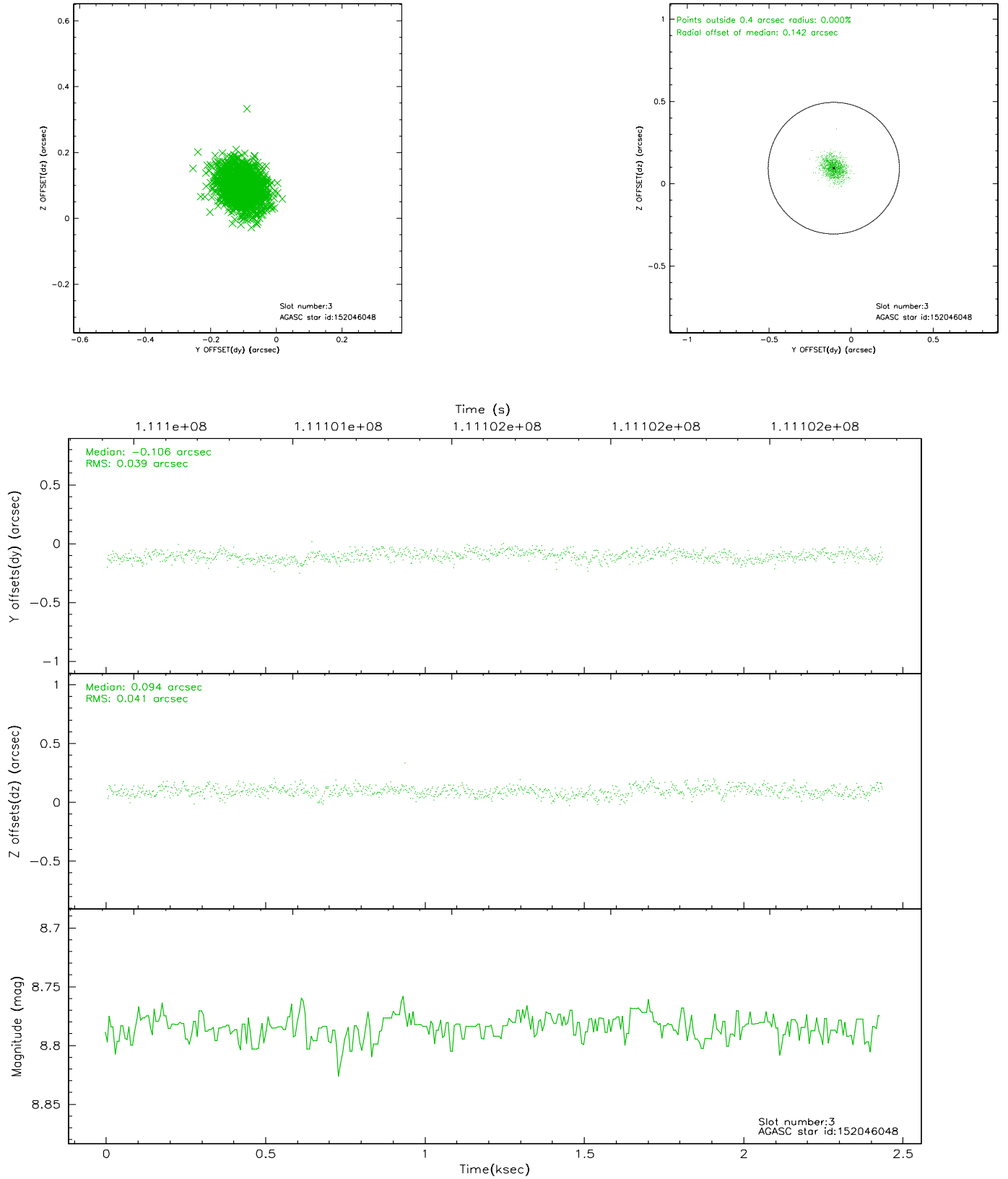


Slot Statistics

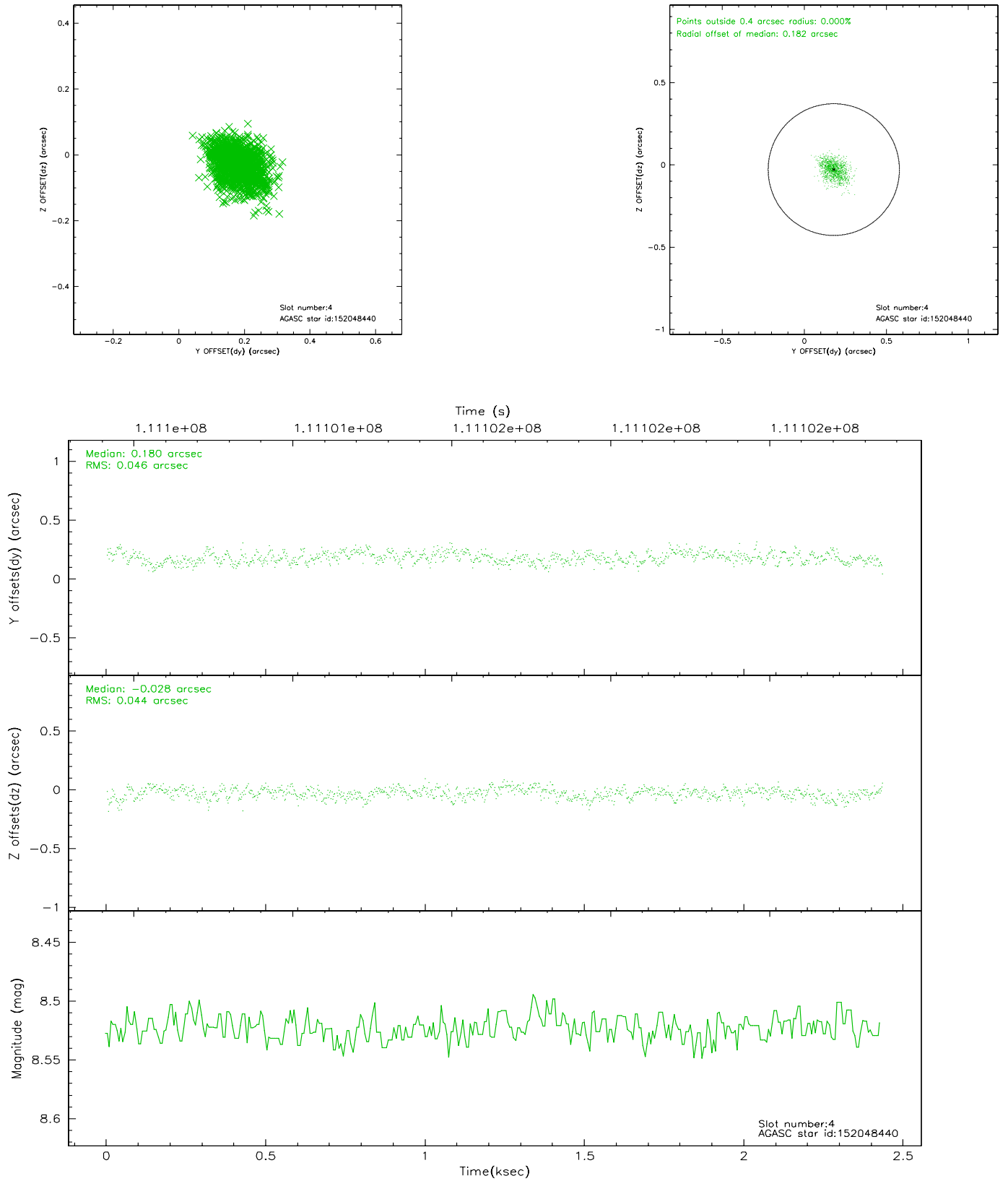
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|----------|----------|---------|
| 0 | FID | HRC-S-1 | 6.98 | 594 | 0.125 | -0.150 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1157.75 | -454.33 |
| 1 | FID | HRC-S-3 | 7.00 | 594 | 0.167 | -0.048 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1162.42 | 574.54 |
| 2 | FID | HRC-S-4 | 6.93 | 594 | 0.096 | -0.098 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1238.48 | 578.86 |
| 3 | GUIDE | 152046048 | 8.78 | 1187 | -0.106 | 0.094 | 0.060 | 0.098 | 346.265854 | 9.604114 | 884.68 | -574.20 |
| 4 | GUIDE | 152048440 | 8.52 | 1187 | 0.180 | -0.028 | 0.069 | 0.109 | 346.200519 | 9.070077 | -656.39 | 596.47 |
| 5 | GUIDE | 152044352 | 9.55 | 1185 | -0.121 | 0.140 | 0.097 | 0.158 | 346.242049 | 9.821046 | 1600.80 | -895.21 |
| 6 | GUIDE | 152056136 | 6.62 | 1188 | 0.122 | -0.071 | 0.060 | 0.095 | 346.466795 | 8.896005 | -1674.76 | 95.23 |
| 7 | GUIDE | 152045968 | 9.15 | 1186 | -0.078 | -0.132 | 0.081 | 0.129 | 345.623620 | 9.582627 | 1969.58 | 1431.57 |

2.4 Star Slots

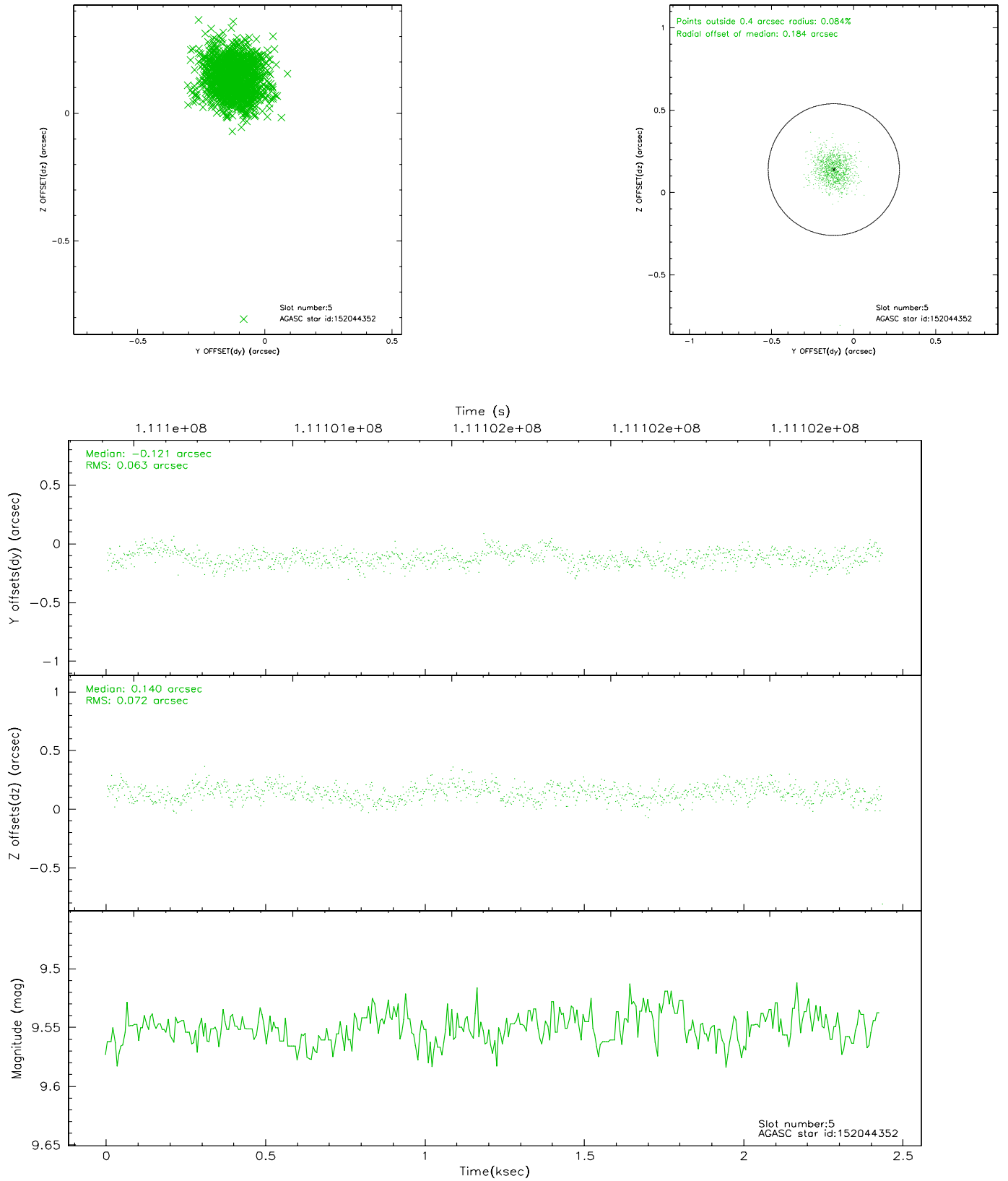
2.4.1 Slot 3



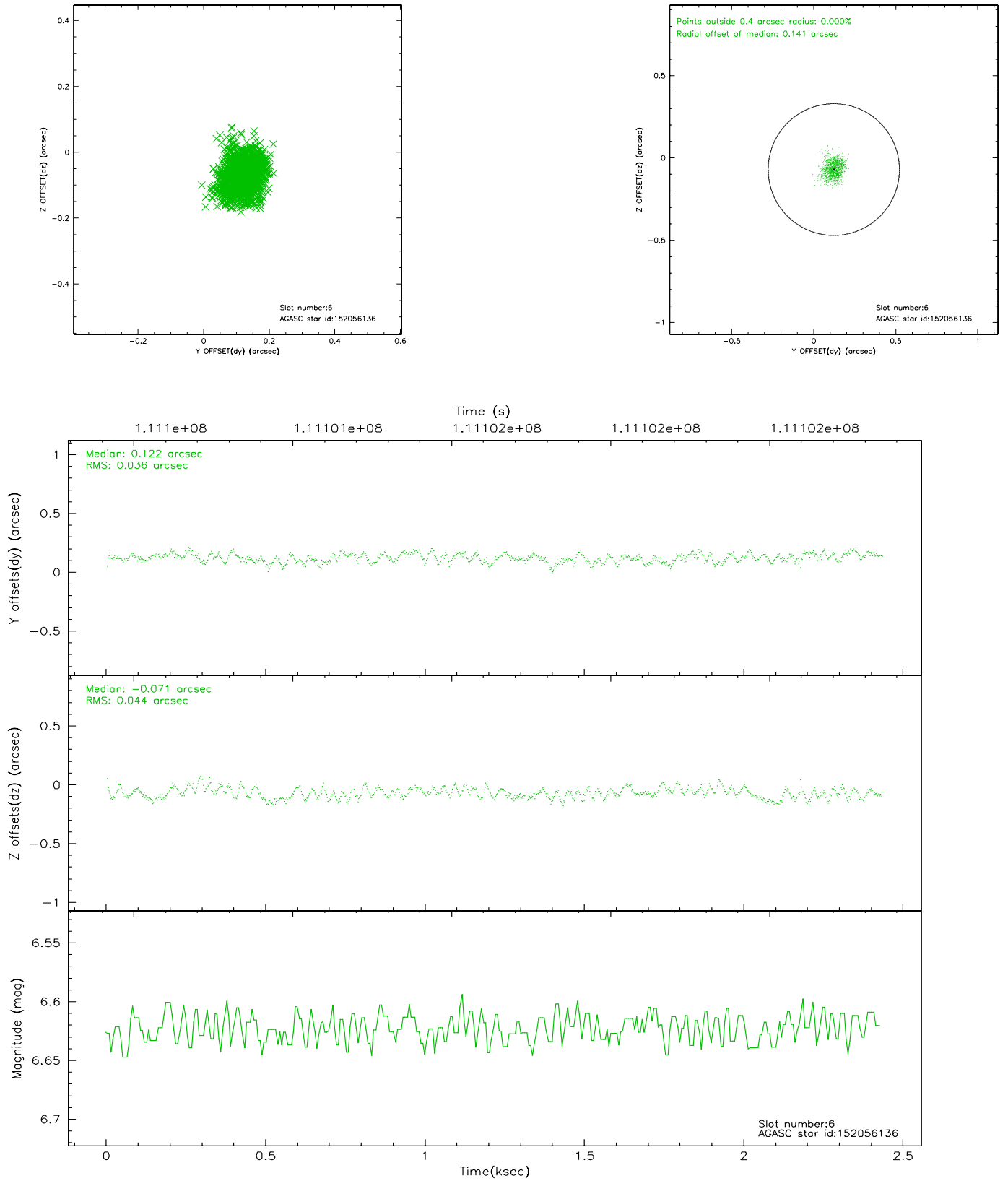
2.4.2 Slot 4



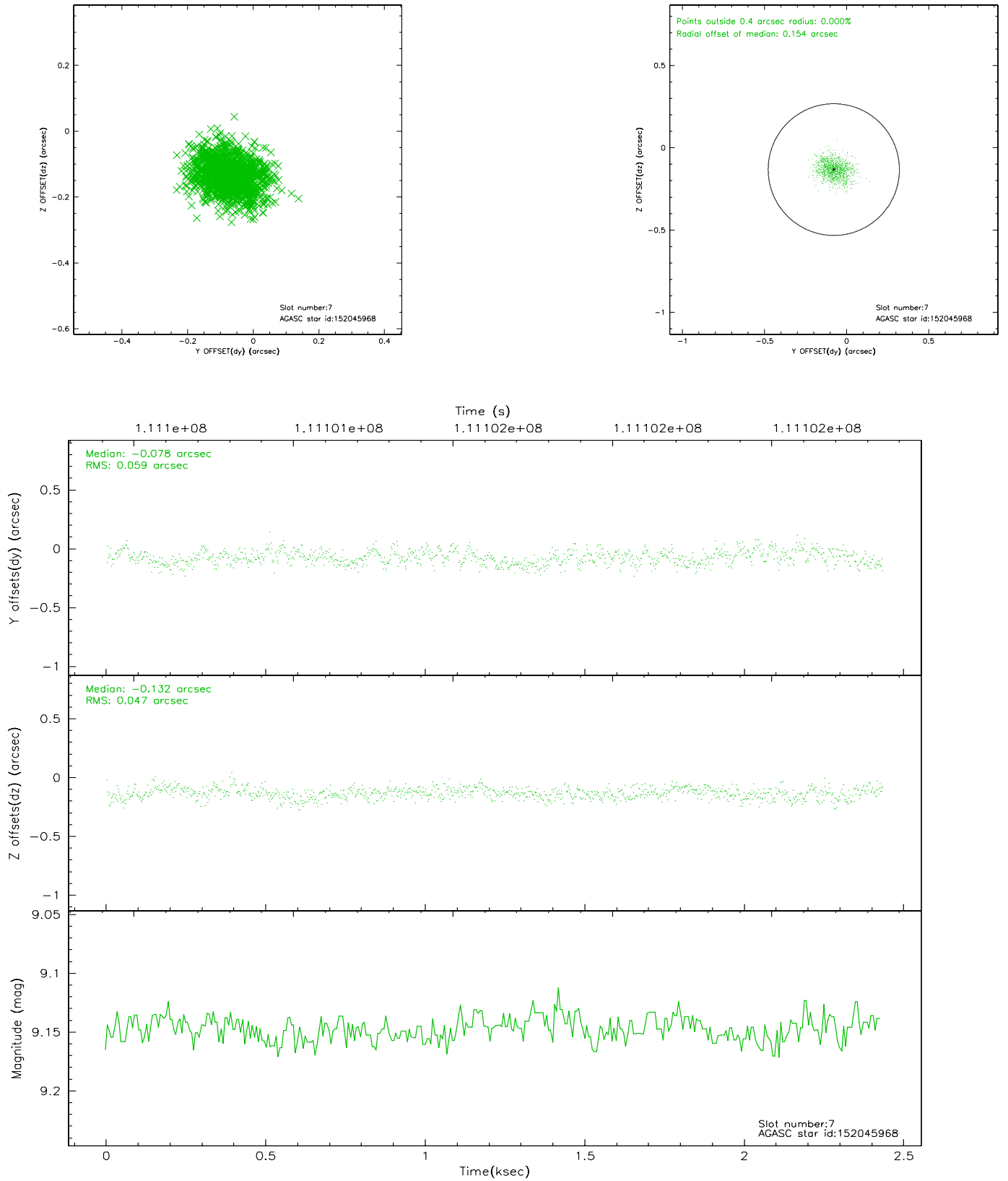
2.4.3 Slot 5



2.4.4 Slot 6

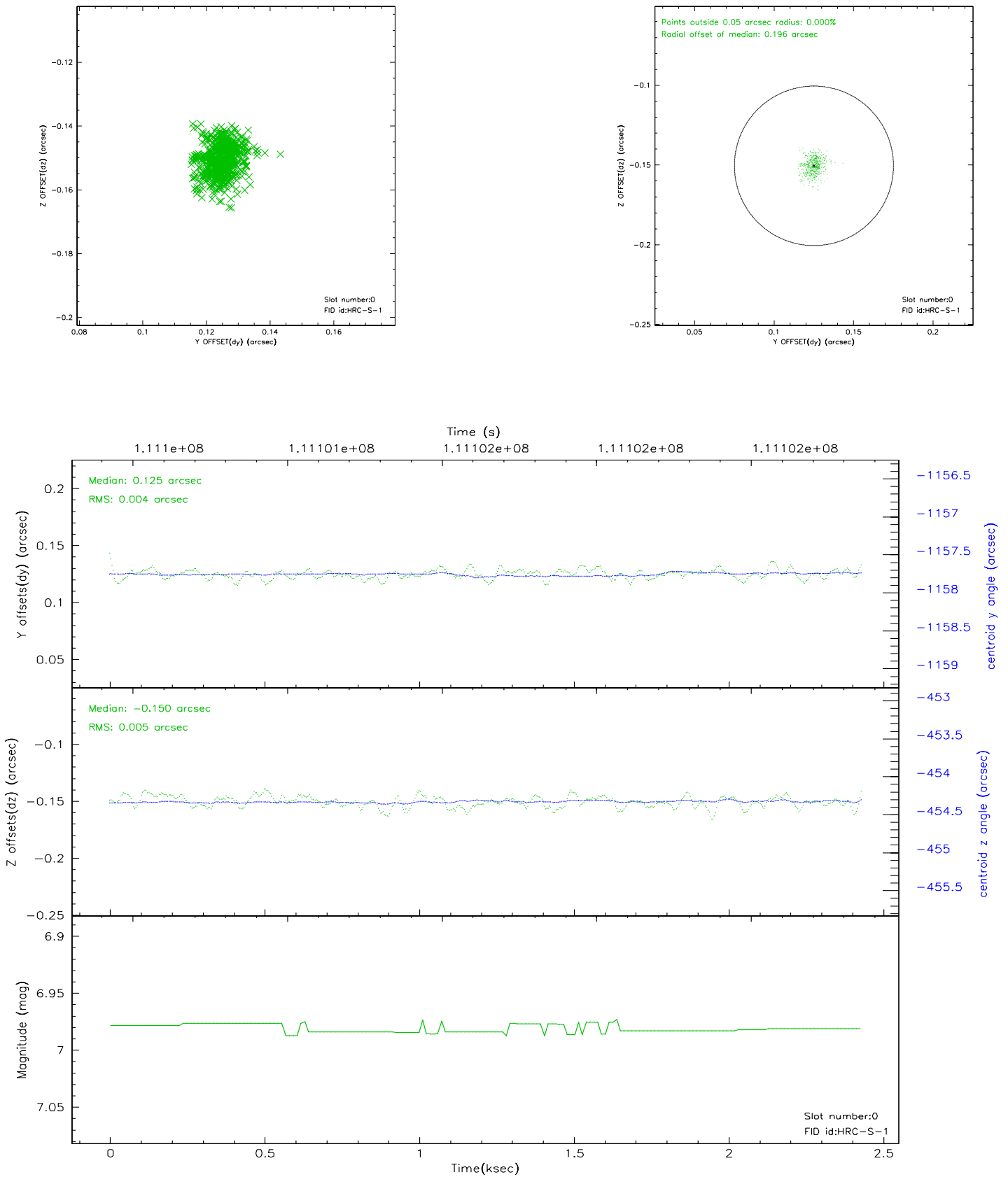


2.4.5 Slot 7

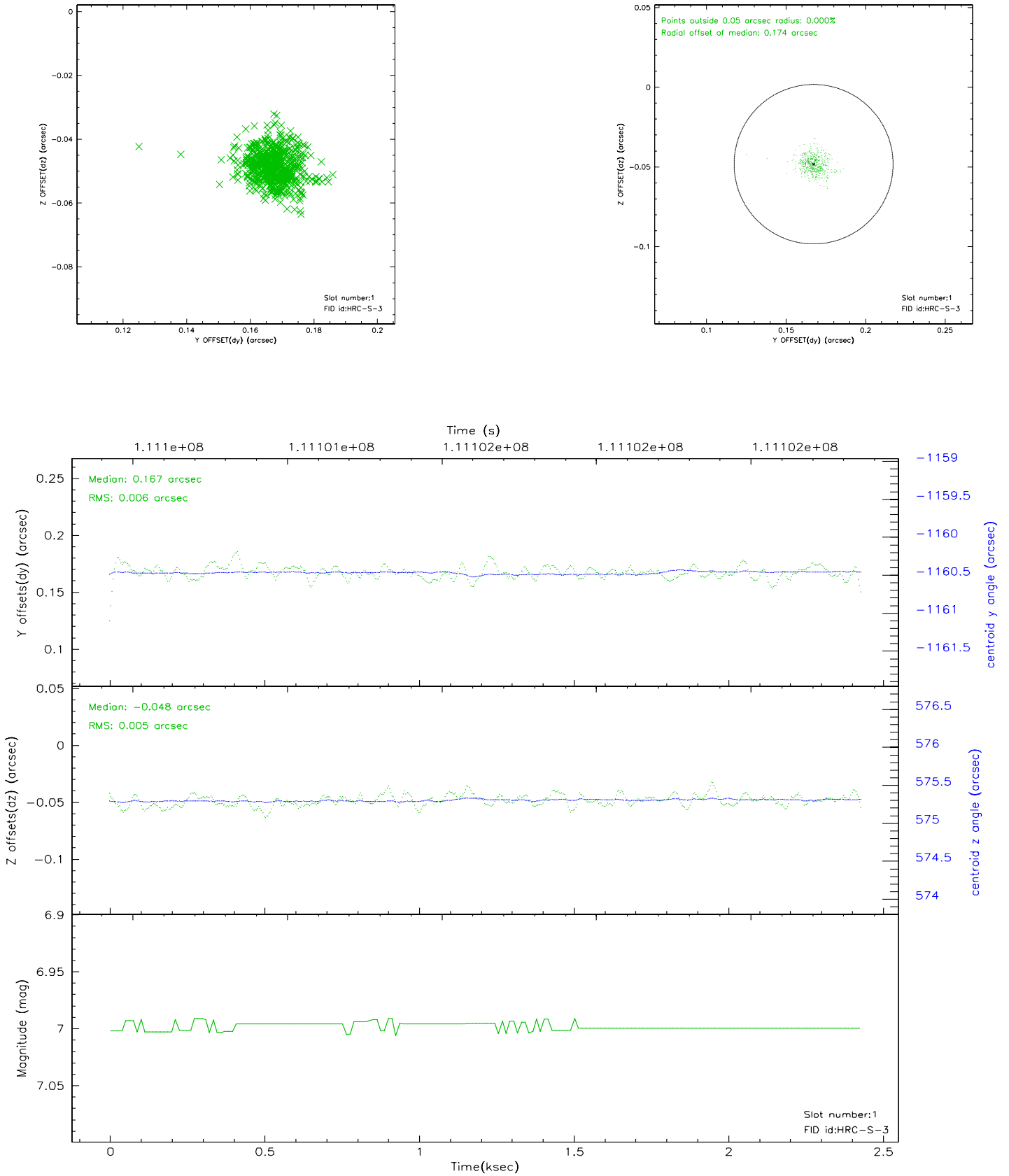


2.5 FID Slots

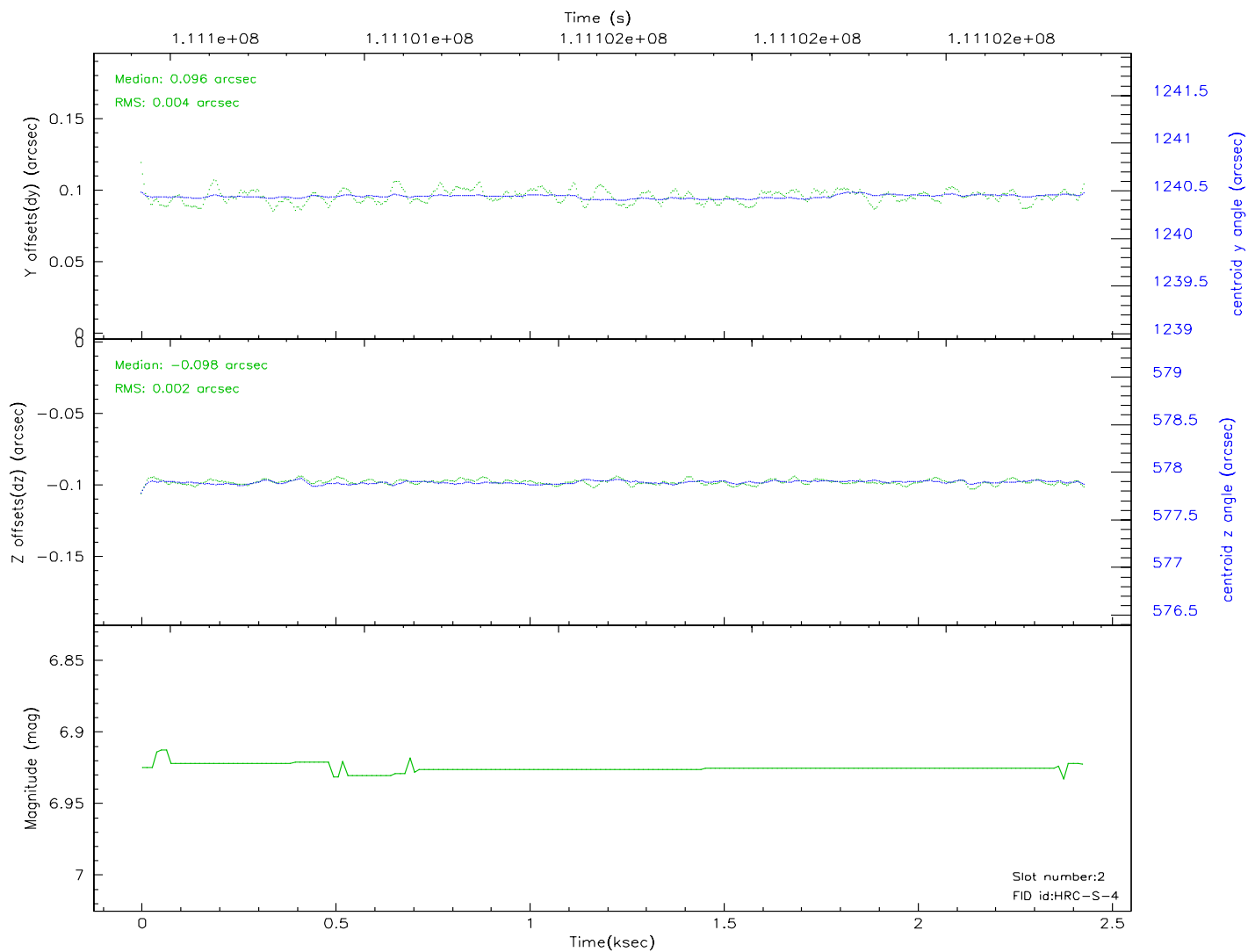
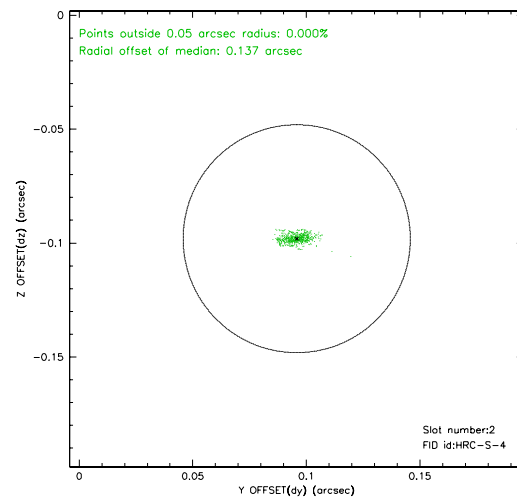
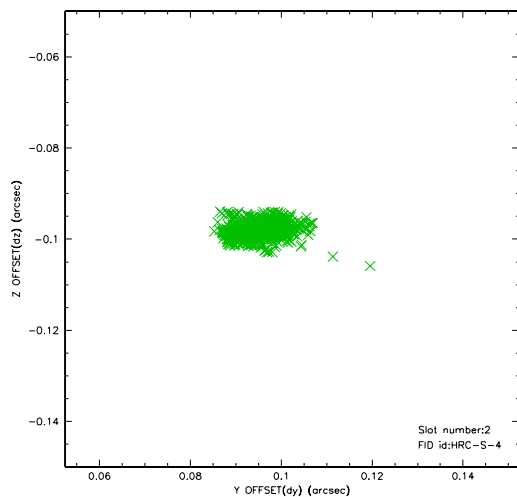
2.5.1 Slot 0



2.5.2 Slot 1

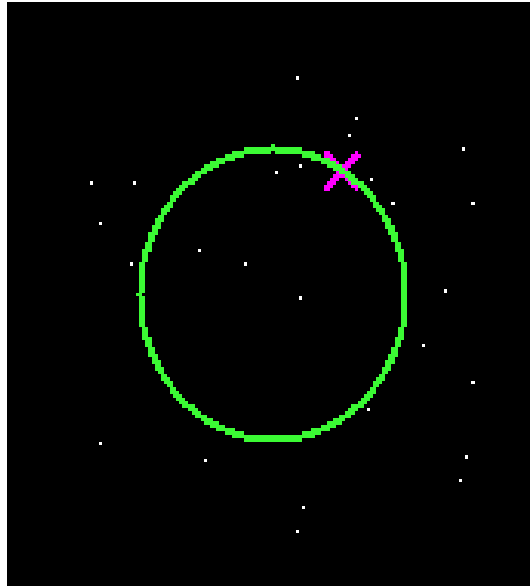


2.5.3 Slot 2

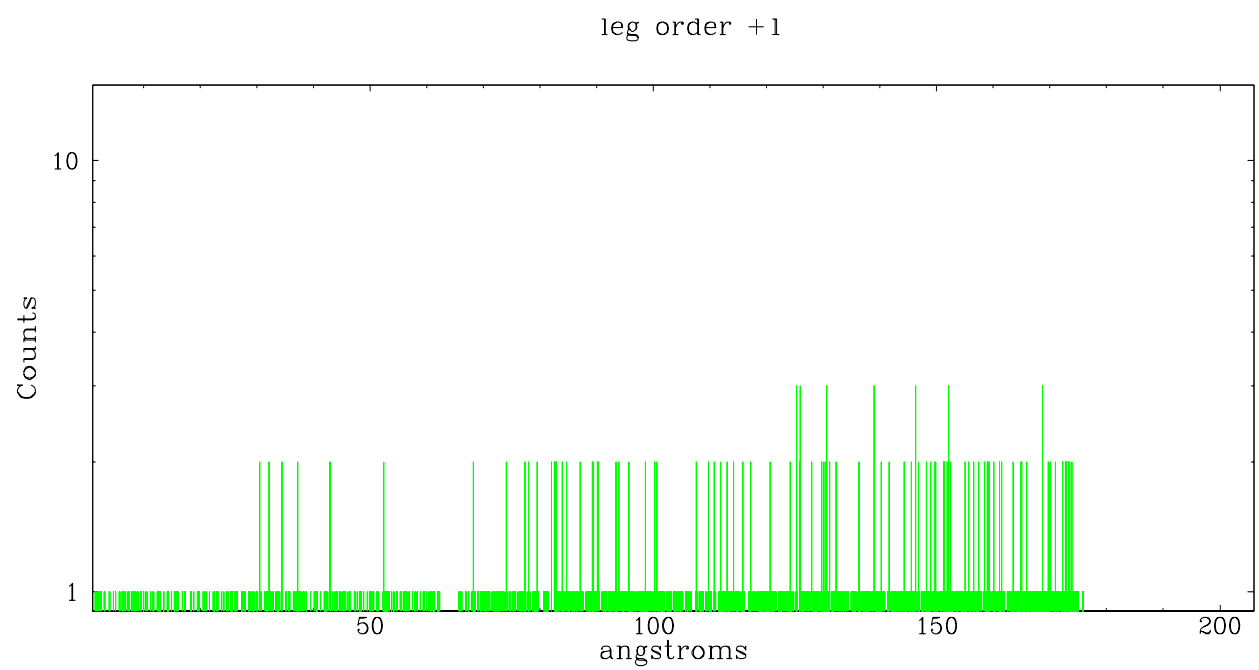


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.12.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.4 |

A.2 Comments

Monitor constraint met.

Tgdetect found no sources, 0th order position defaulted to ra_targ, dec_targ.

Users should run sso_freeze or the equivalent on the suite of comet observations before rerunning tgdetect.