

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 4901 - L2 Version 001
Chandra X-Ray Center

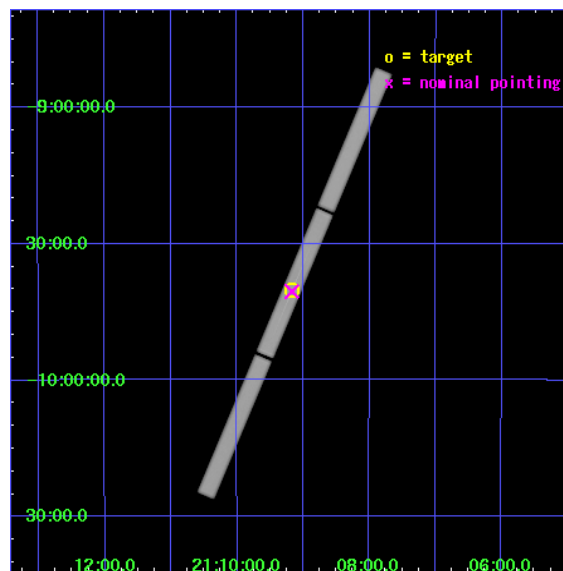
L2 Processing Date : Jun 22 2006

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1 Front

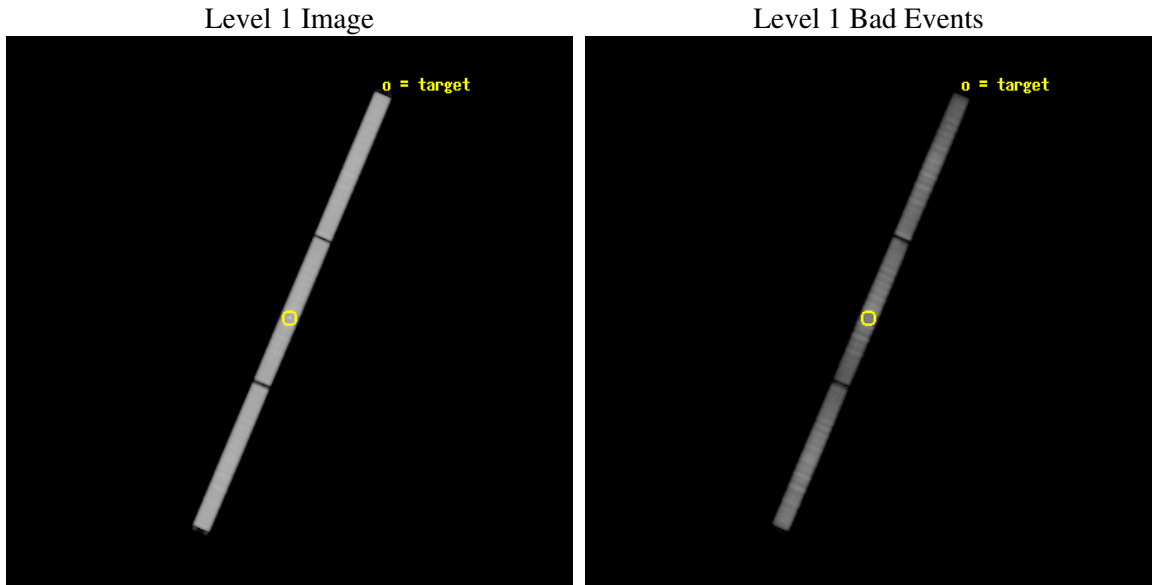
seq_num	700982
obs_id	4901
title	STRONG CORONAL EMISSION LINES FROM THE HINER OF H2106-099
observer	Dr. Martin Elvis
object	H2106-099
ra_targ	317.291
dec_targ	-9.67125
ra_nom	317.29272161197
dec_nom	-9.6755873440231
roll_nom	292.99314092373
revision	2
ontime	101142.90439731
livetime	100422.06454455
l2events	5227486



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-06-22T07:09:47
revision	2

sched_exp_time	101000.000000
ontime	101144.95439738
l1events	7367097

2.1.3 Events

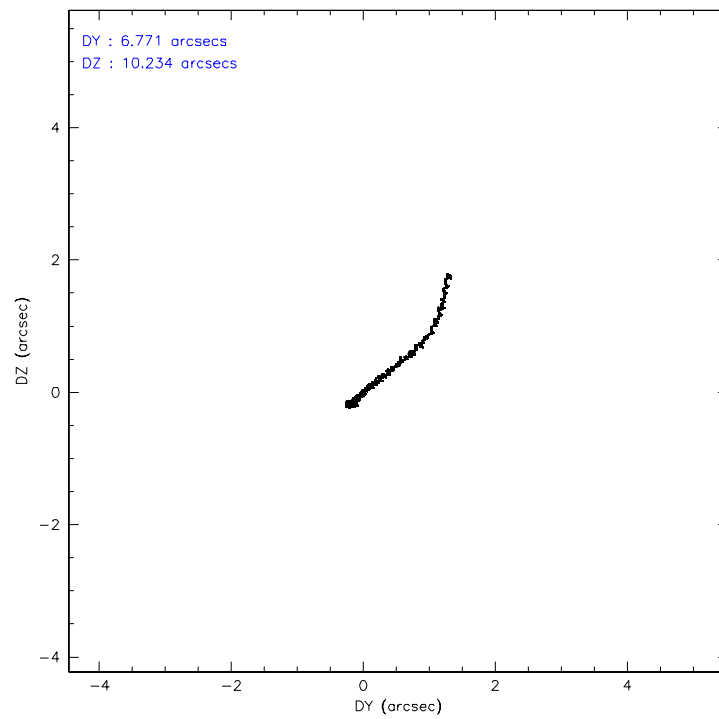
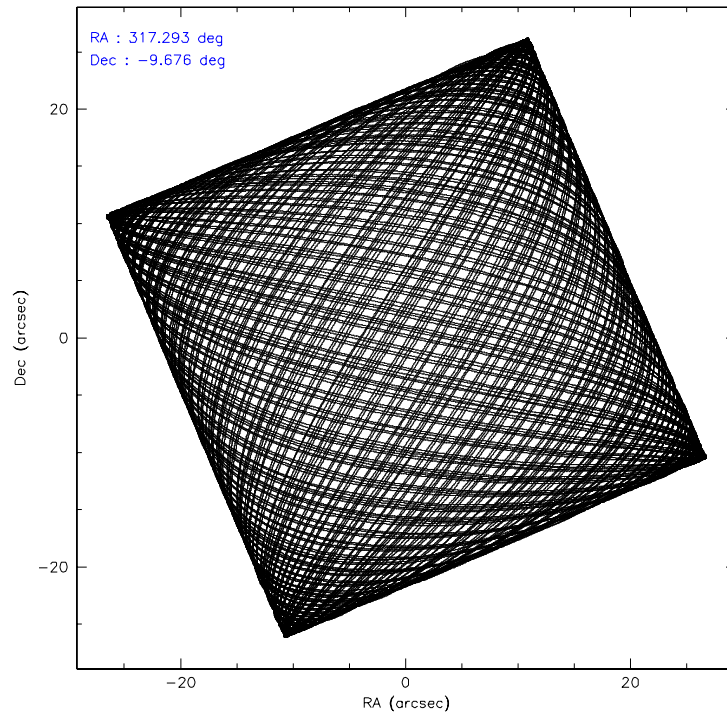
Level 1 Events

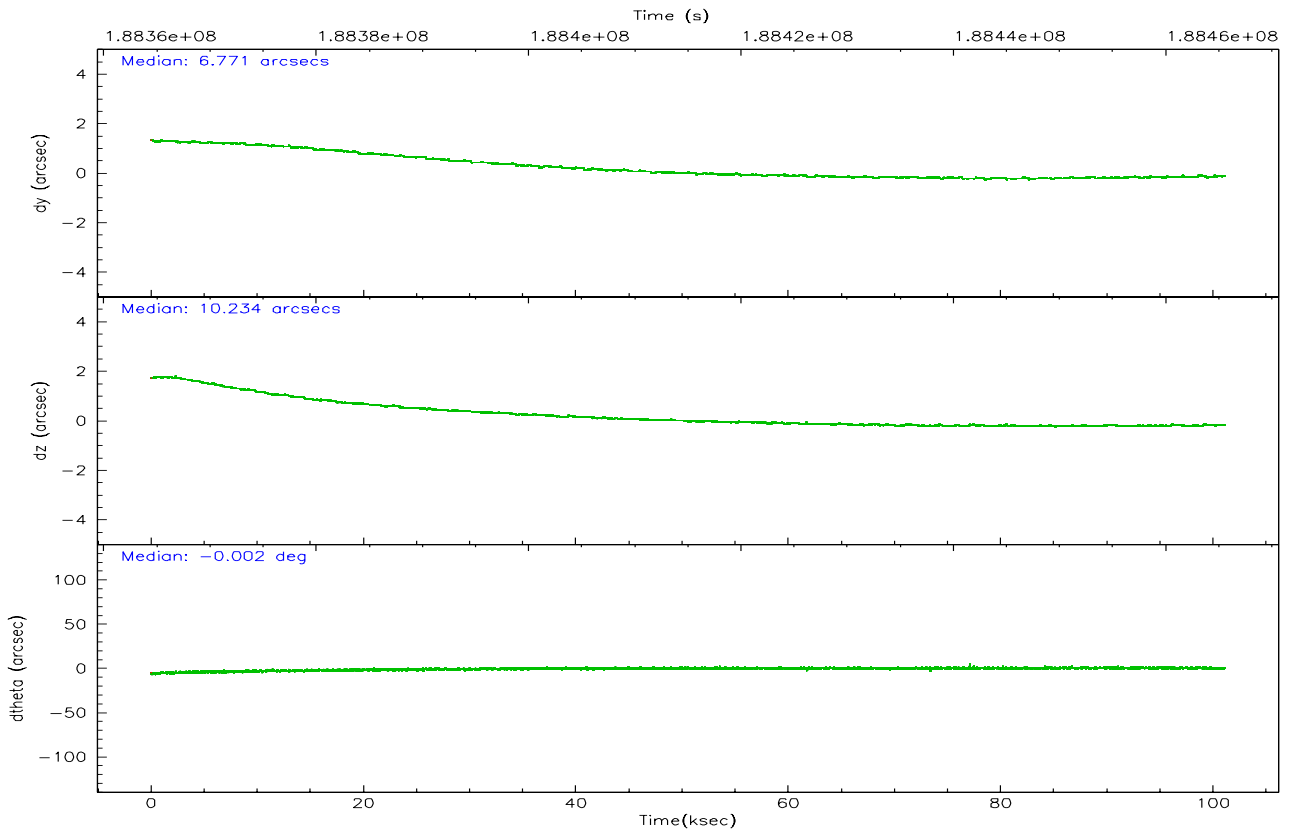
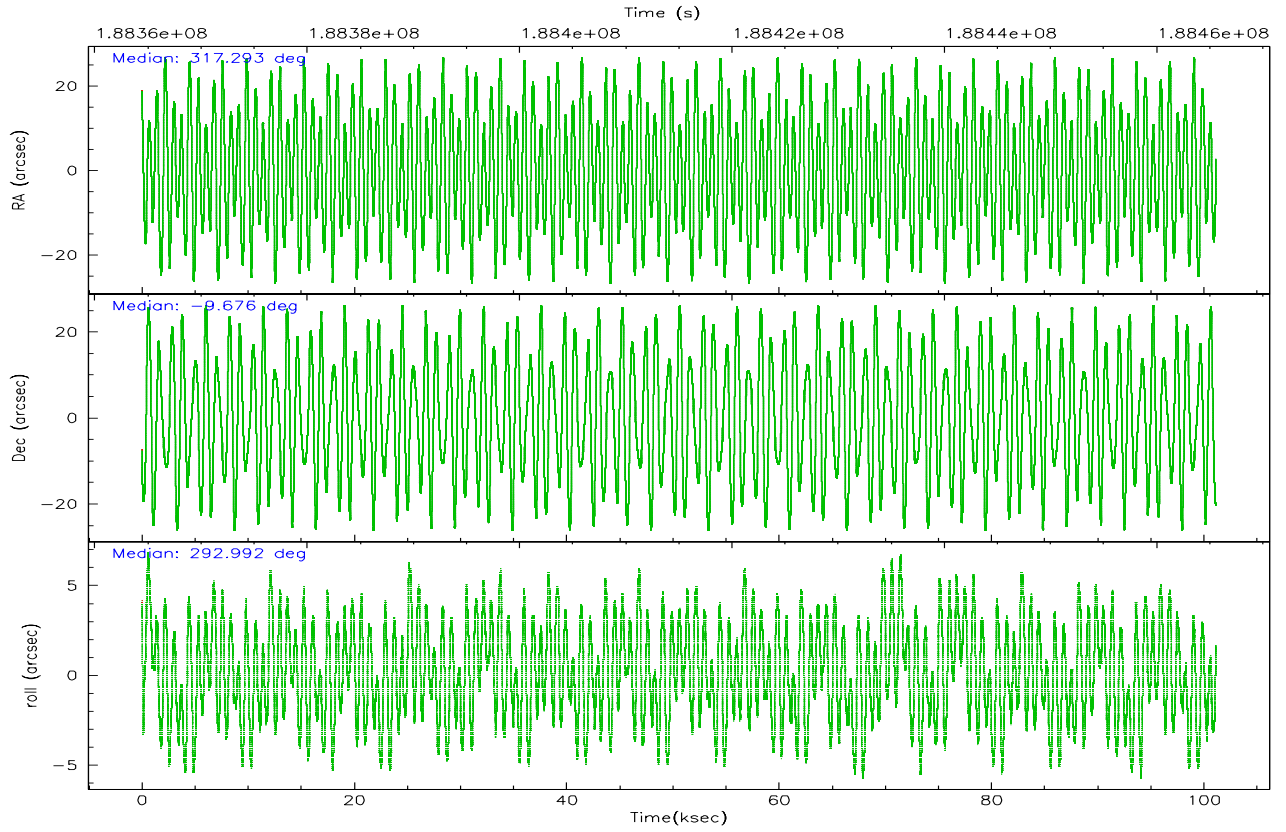
	segment 1	segment 2	segment 3
level 1 events	2508090	2424678	2434329
rejected events	452052	494171	556550
rejected %	18%	20%	22%

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	317.268726	317.2927216119744			
Pointing Dec	-9.659548	-9.675587344023073			
Pointing Roll	292.921771	292.9931409237325			
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	188364600.184000	188363664.14464			
Observation start date	2003-12-21T03:28:56	2003-12-21T03:14:24			
Observation end time	188465600.184000	188466502.39911			
Observation end date	2003-12-22T07:32:16	2003-12-22T07:48:22			

2.3 Aspect



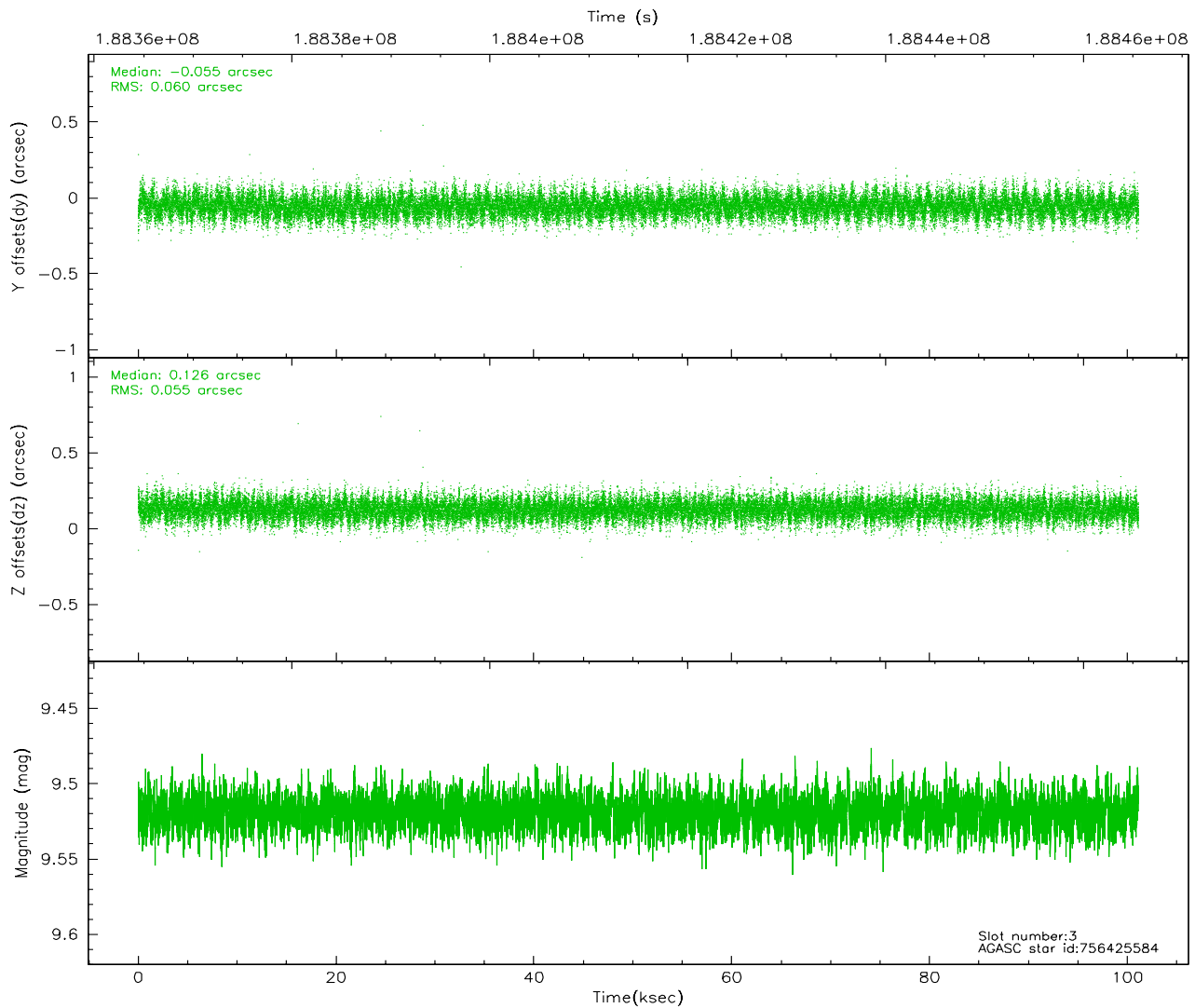
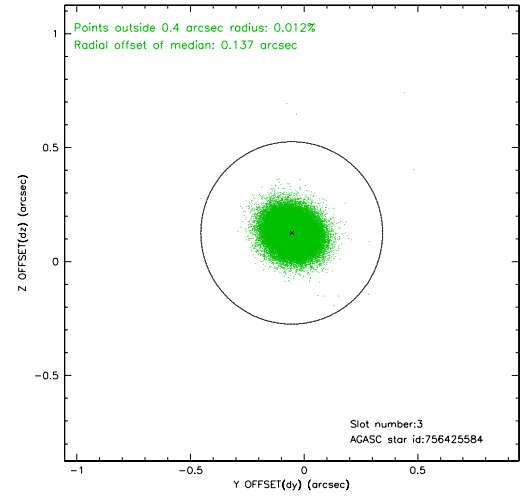
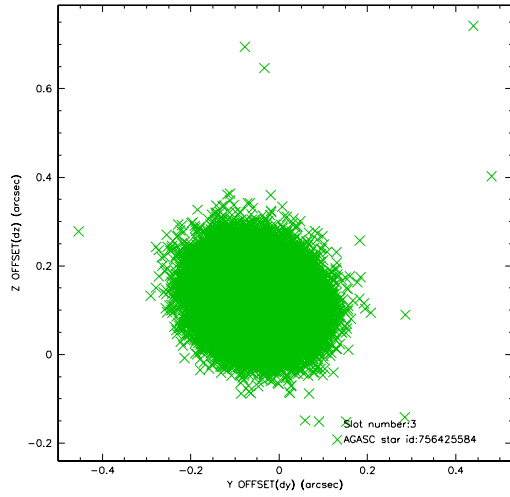


Slot Statistics

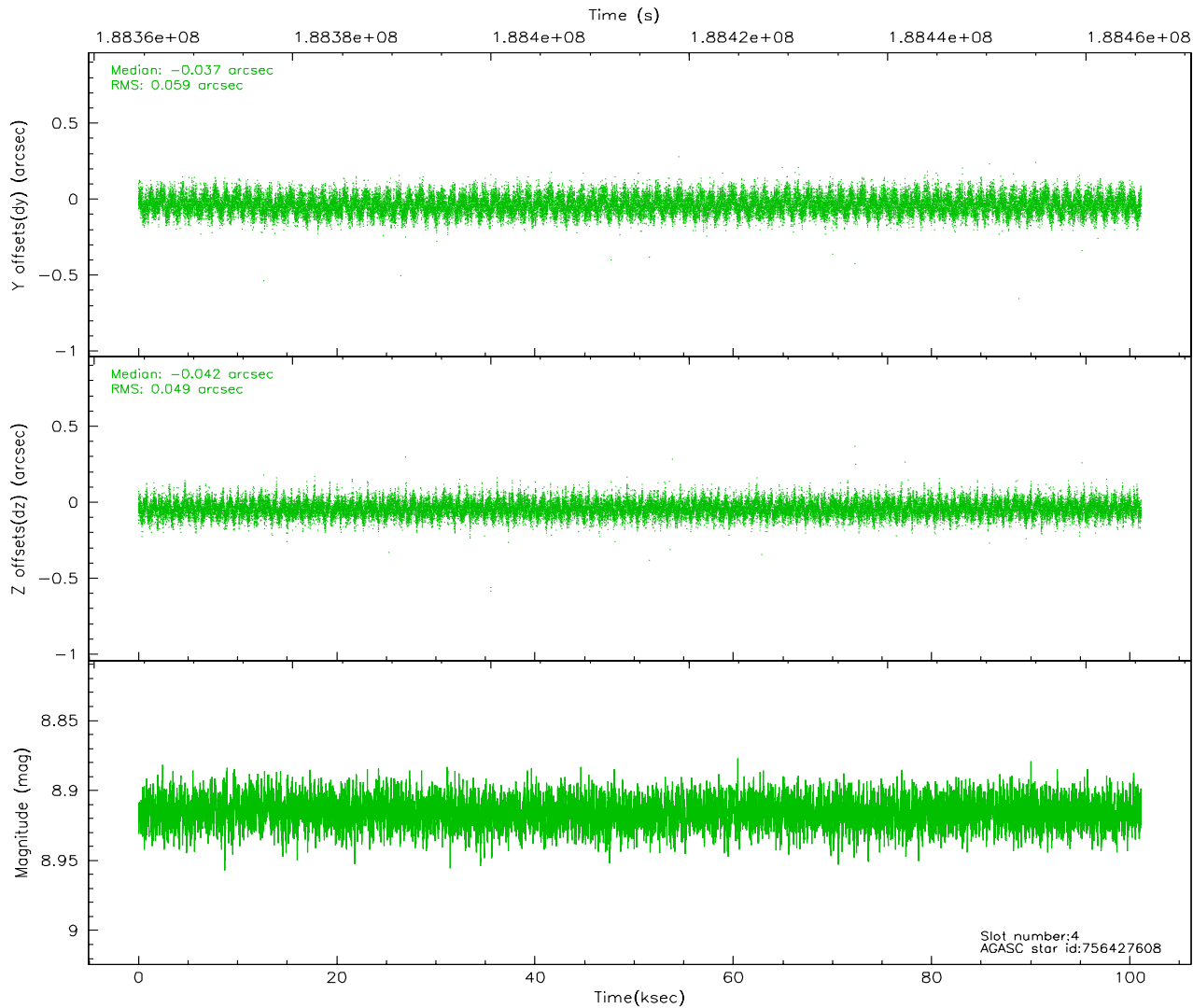
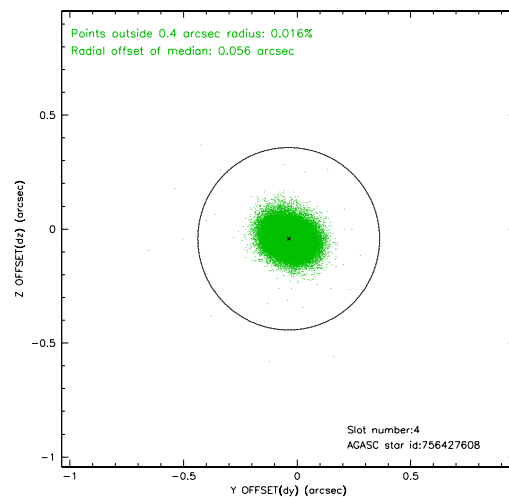
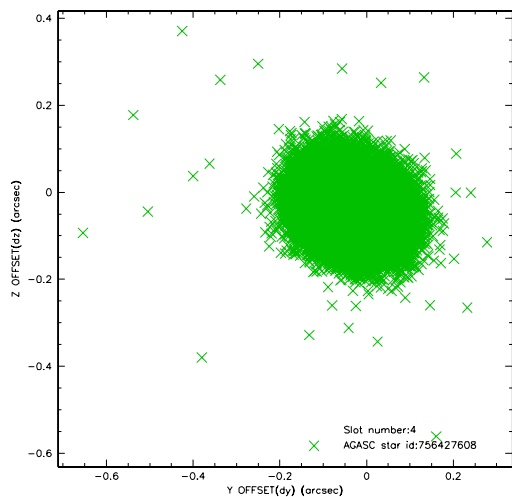
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	24668	0.125	-0.183	0.010	0.063	0.000000	0.000000	-1161.18	-459.18
1	FID	HRC-S-2	7.00	24670	0.148	-0.105	0.009	0.028	0.000000	0.000000	1238.48	-451.80
2	FID	HRC-S-3	7.02	24670	0.118	-0.013	0.013	0.058	0.000000	0.000000	-1163.84	570.49
3	GUIDE	756425584	9.52	49305	-0.055	0.126	0.087	0.141	317.017944	-9.166937	-1978.98	-131.17
4	GUIDE	756427608	8.92	49317	-0.037	-0.042	0.081	0.132	317.371794	-9.153977	-1533.50	1046.21
5	GUIDE	756952256	7.67	49333	0.049	-0.098	0.058	0.093	317.404309	-9.674602	237.57	422.15
6	GUIDE	756426344	9.44	49291	-0.066	-0.021	0.109	0.172	317.800240	-9.205065	-769.91	2376.46
7	GUIDE	756950512	8.19	49332	0.108	0.036	0.056	0.091	317.684579	-10.209462	2398.30	586.03

2.4 Star Slots

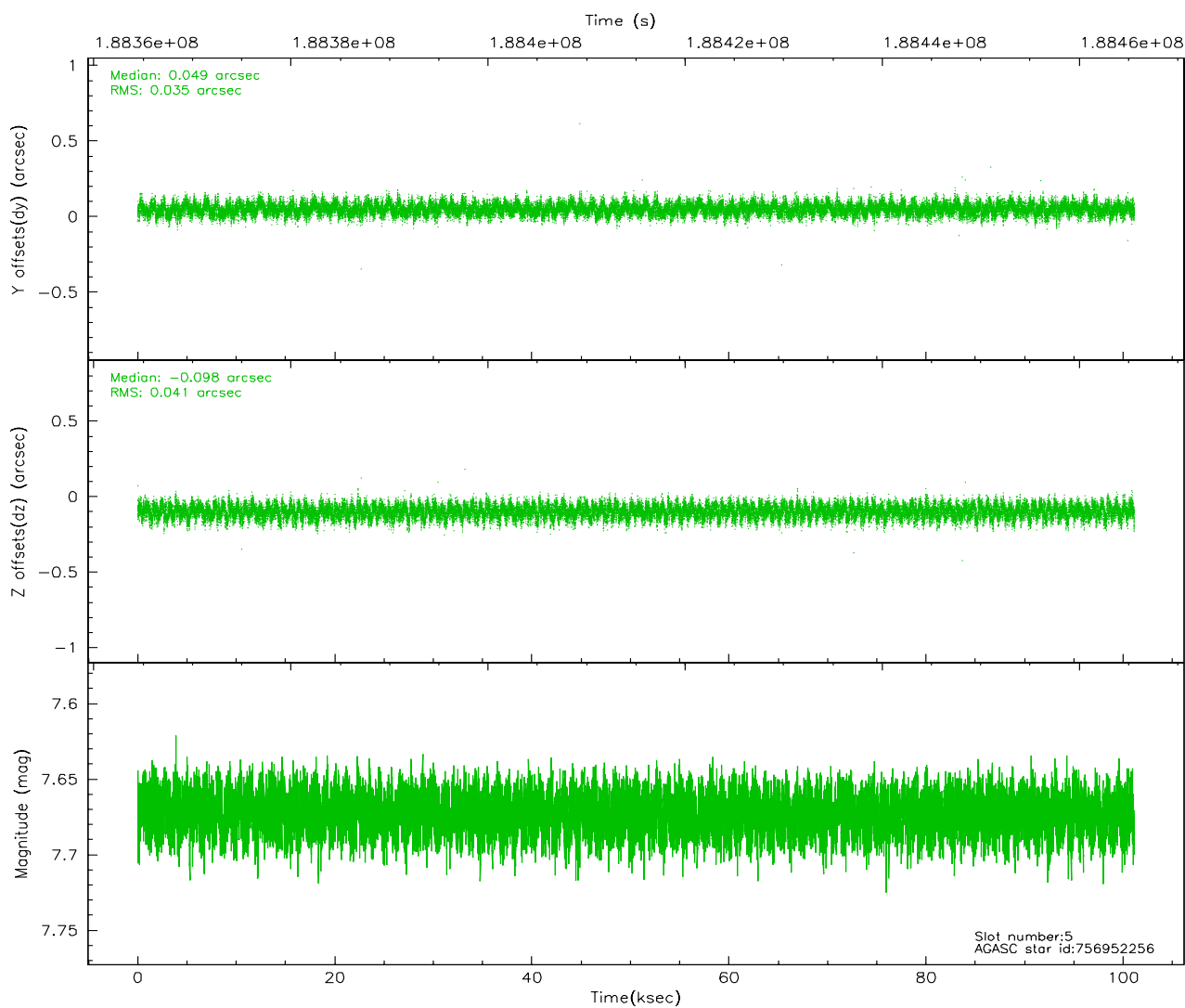
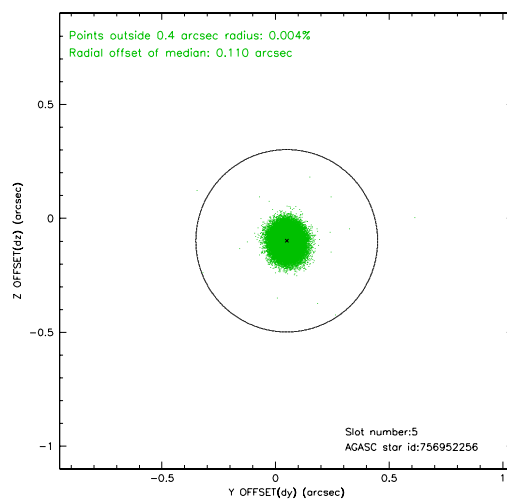
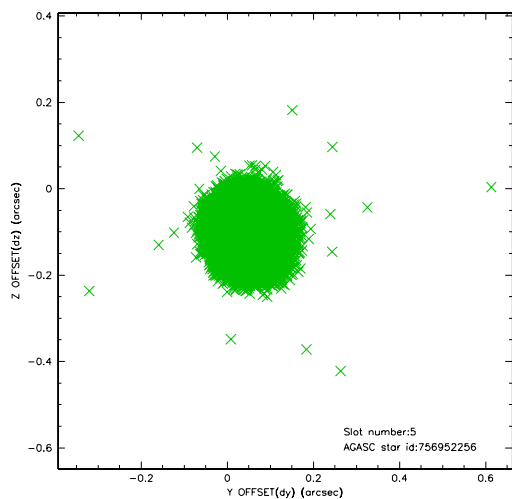
2.4.1 Slot 3



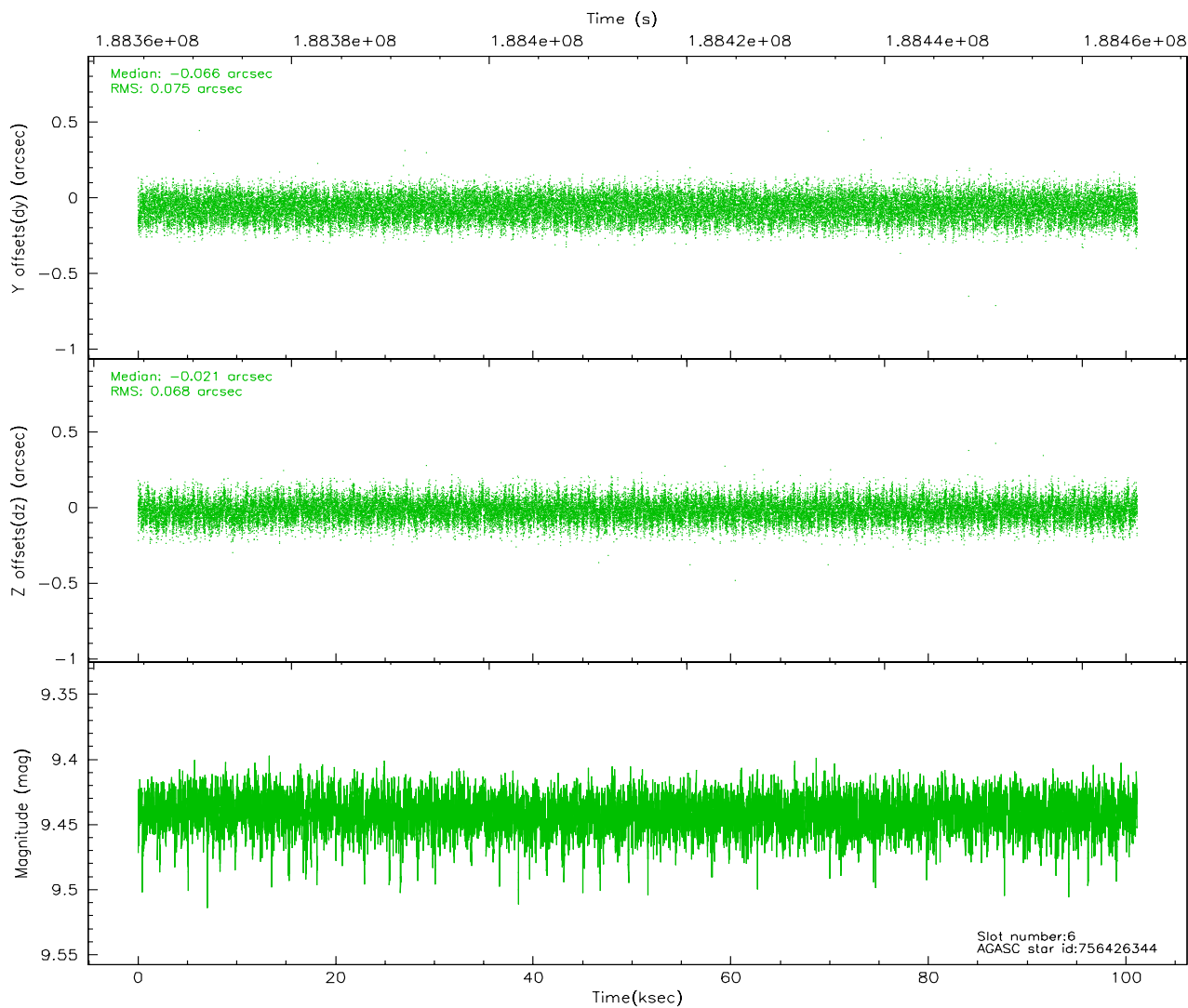
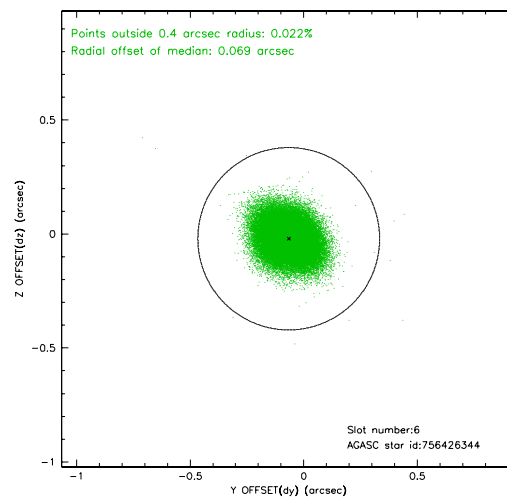
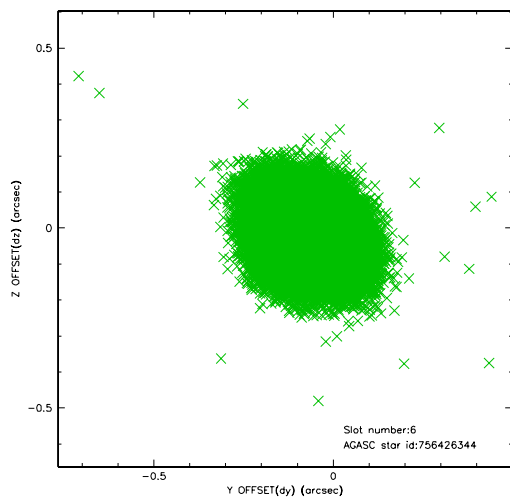
2.4.2 Slot 4



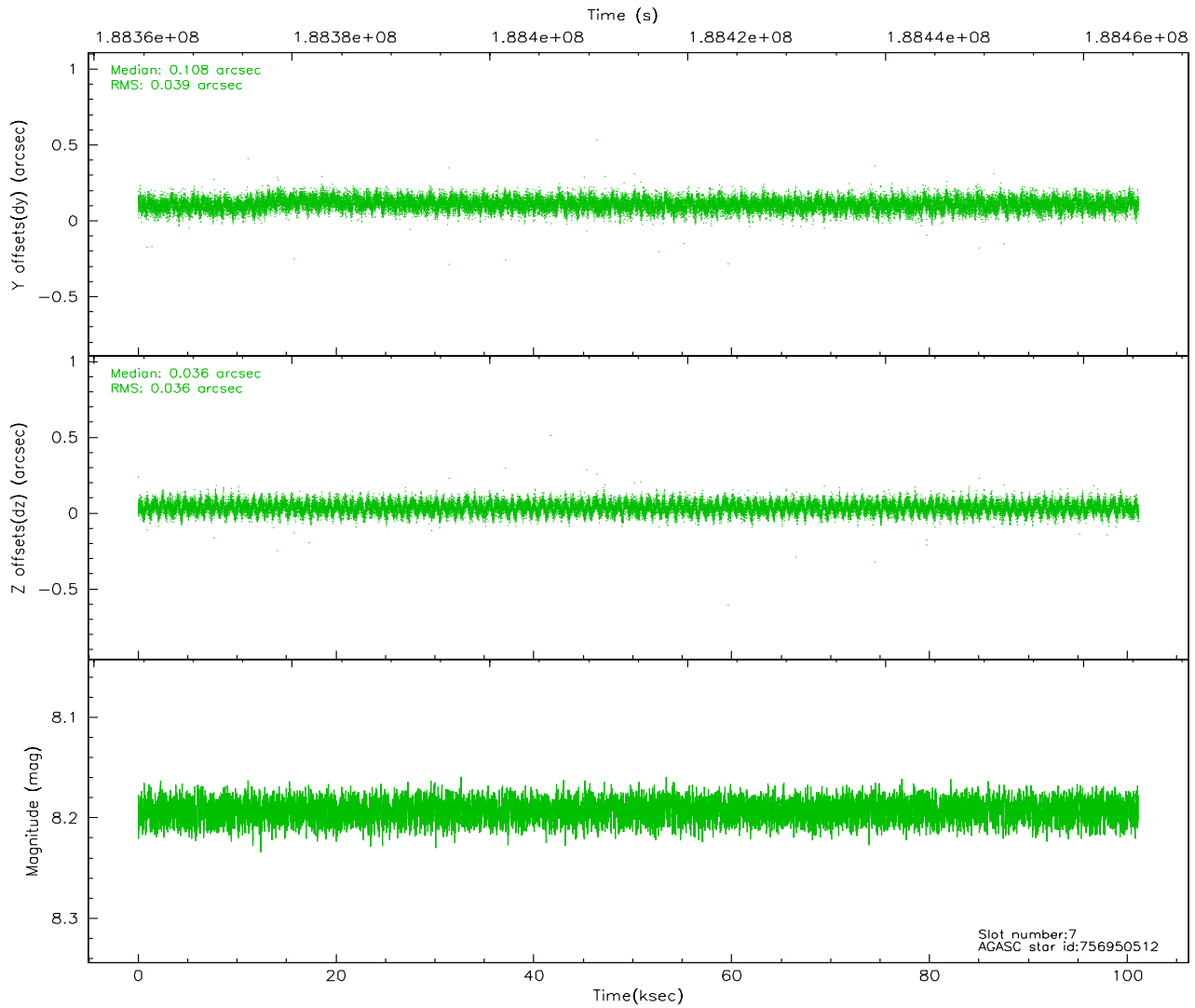
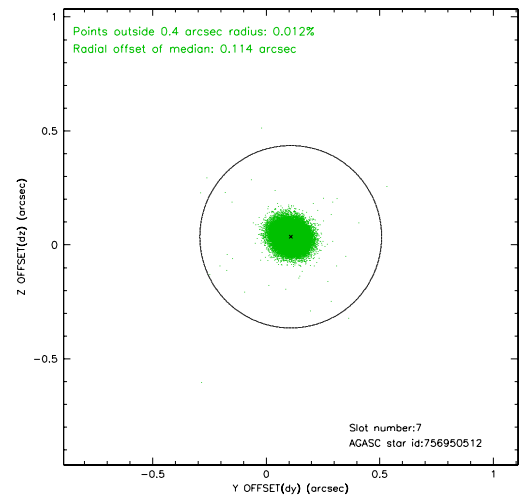
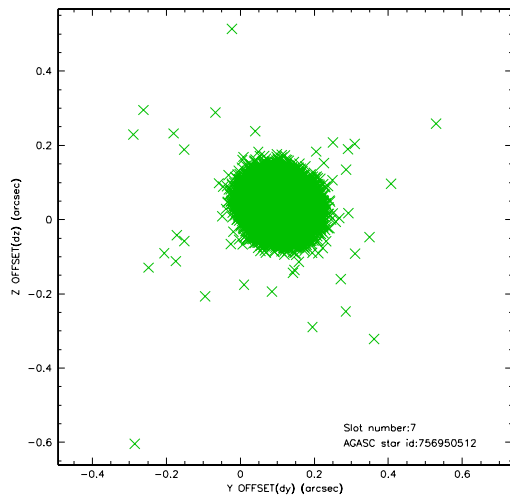
2.4.3 Slot 5



2.4.4 Slot 6

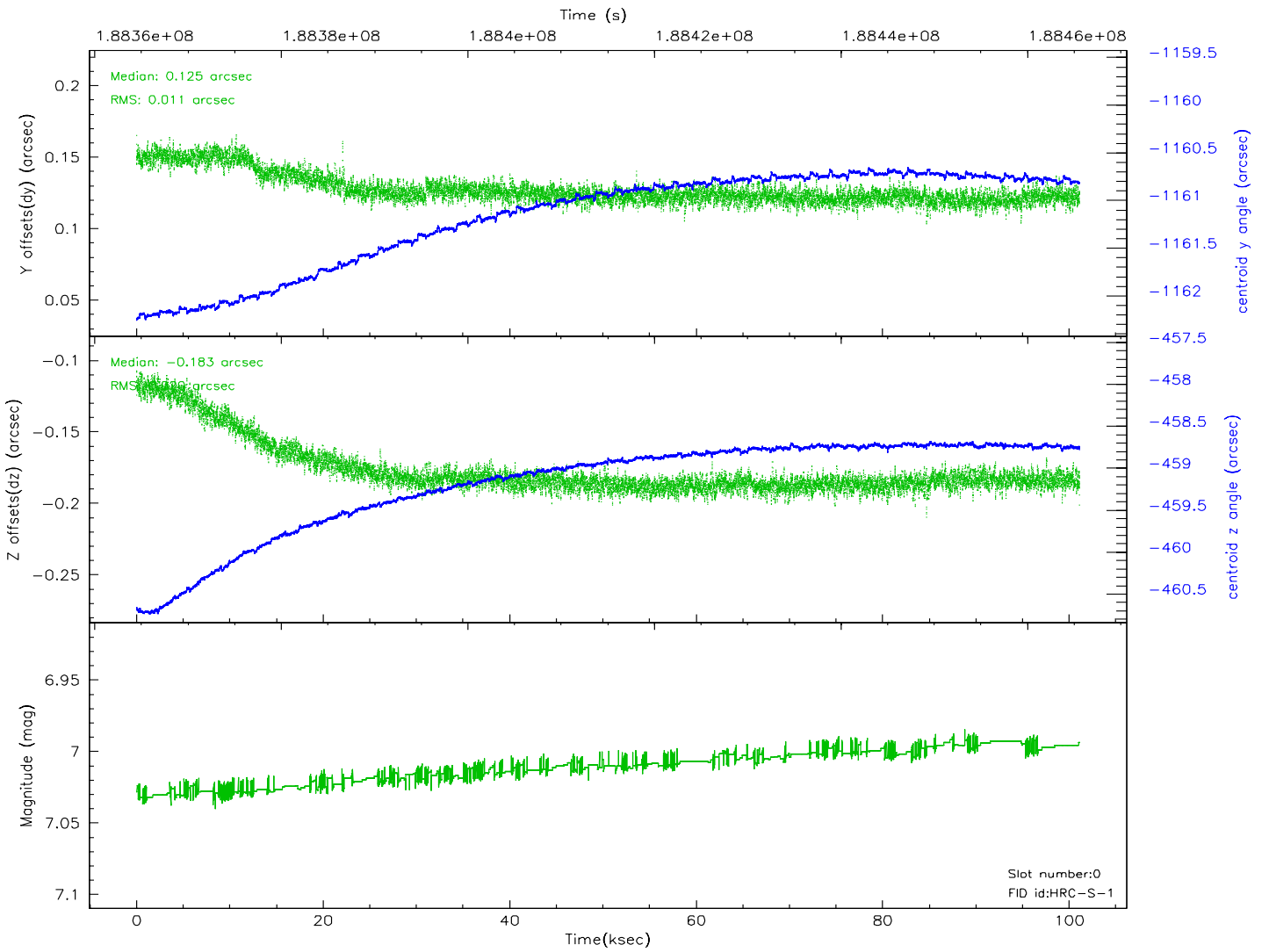
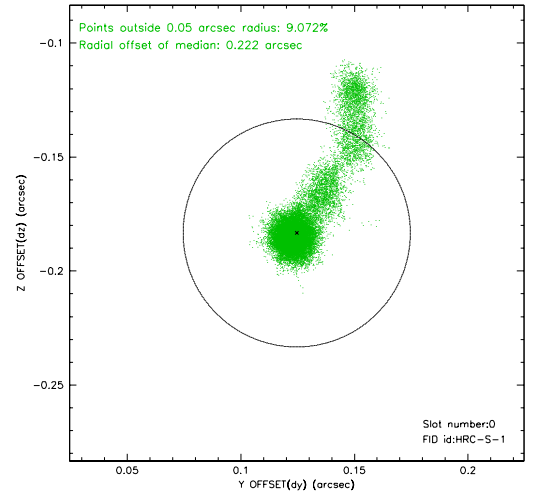
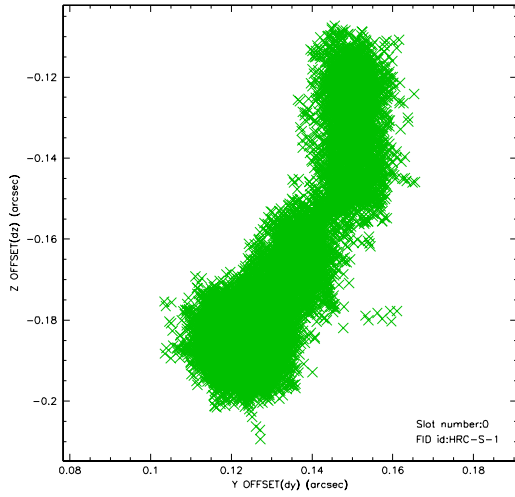


2.4.5 Slot 7

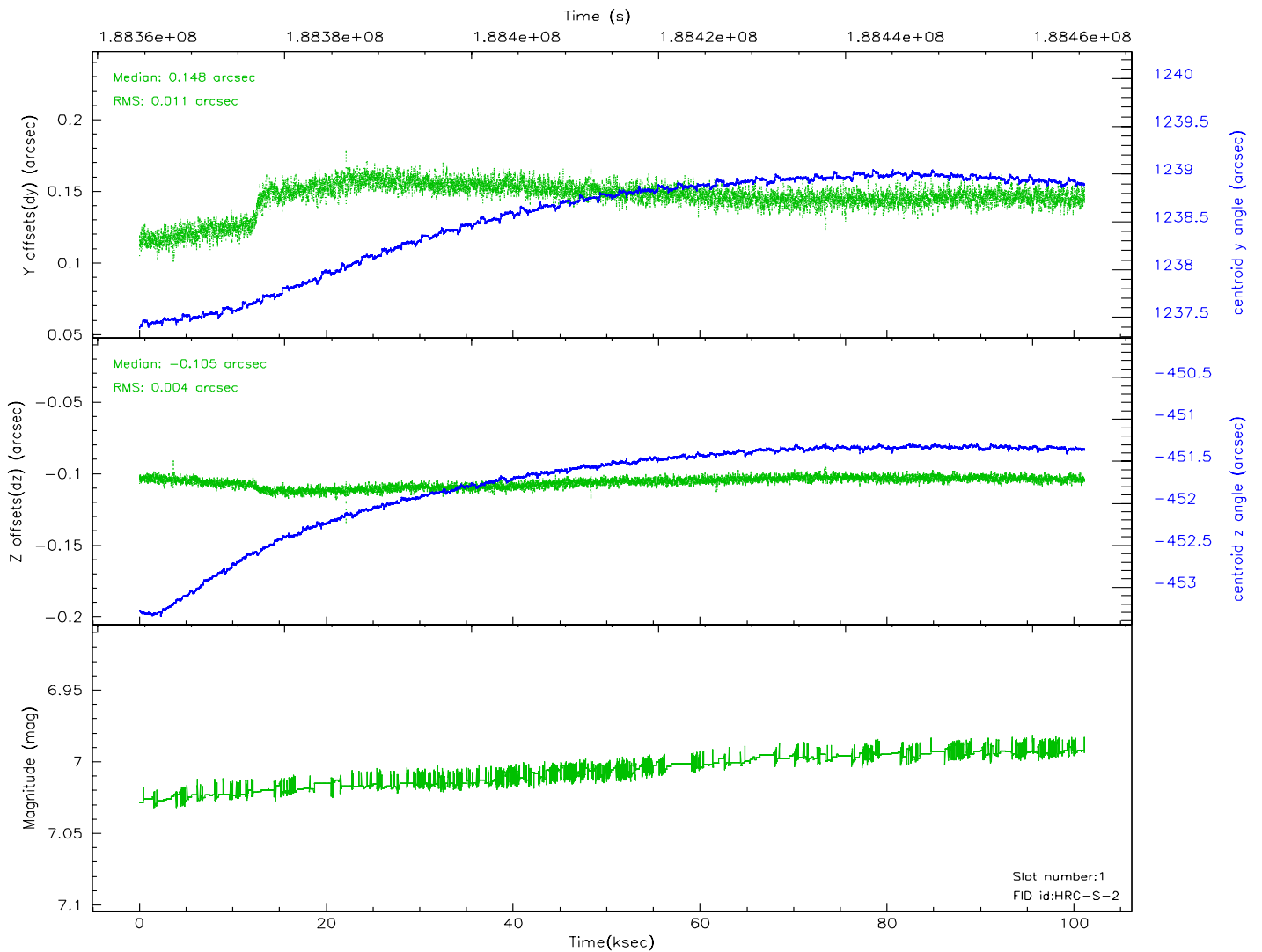
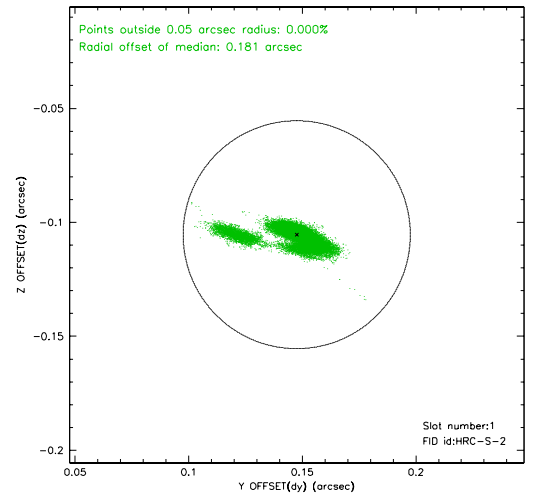
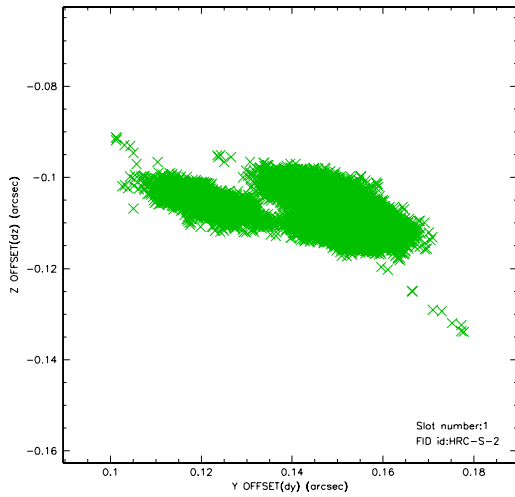


2.5 FID Slots

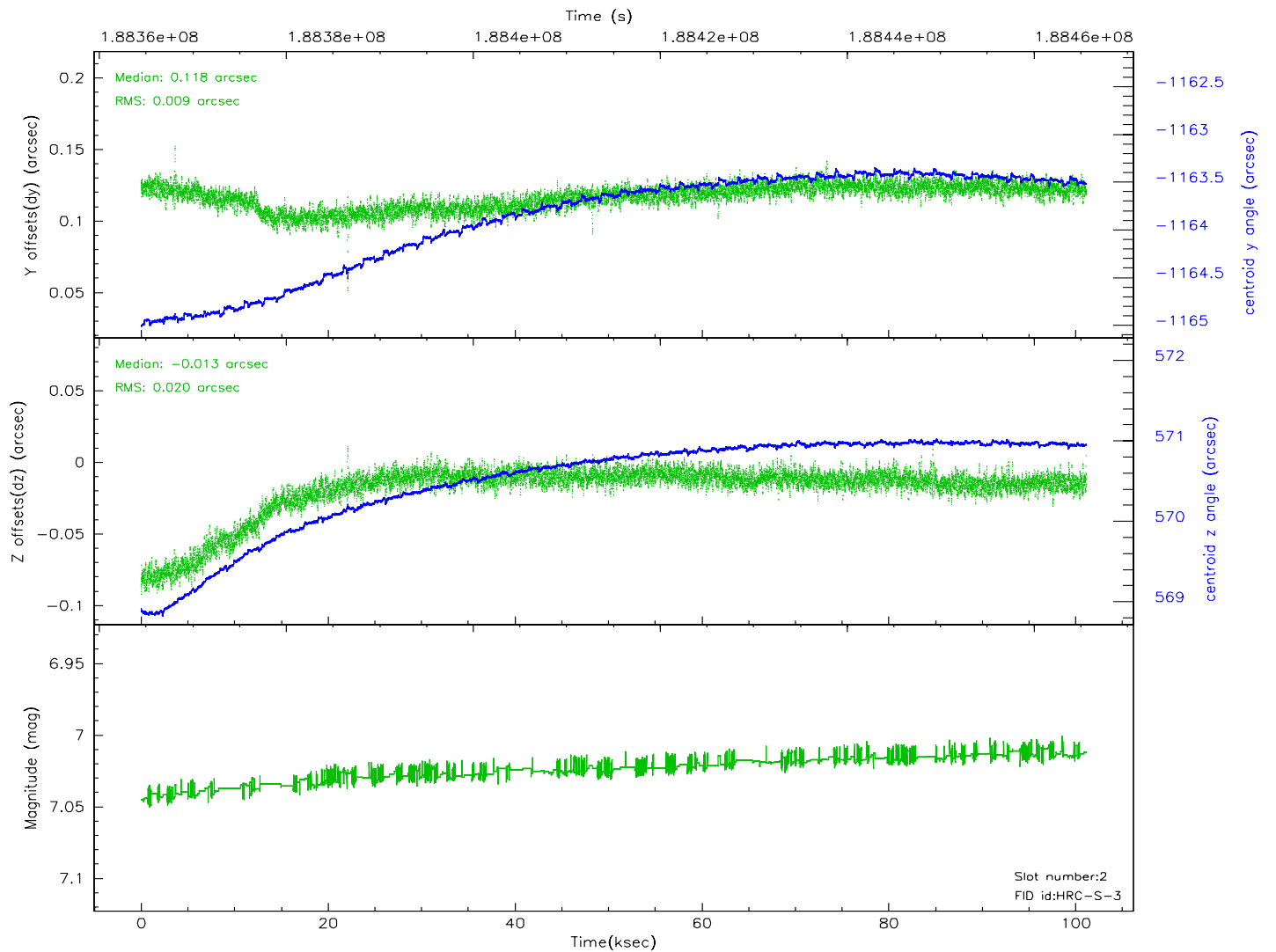
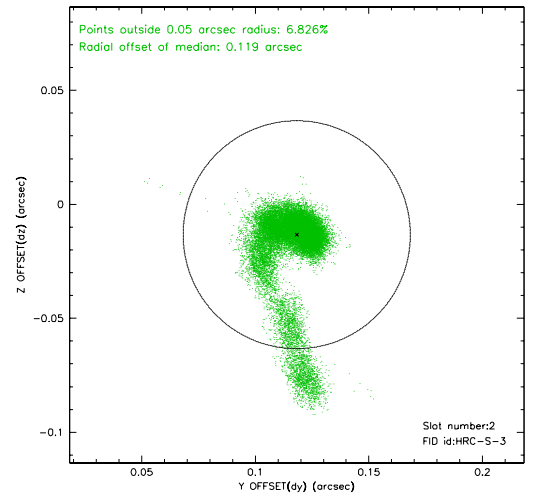
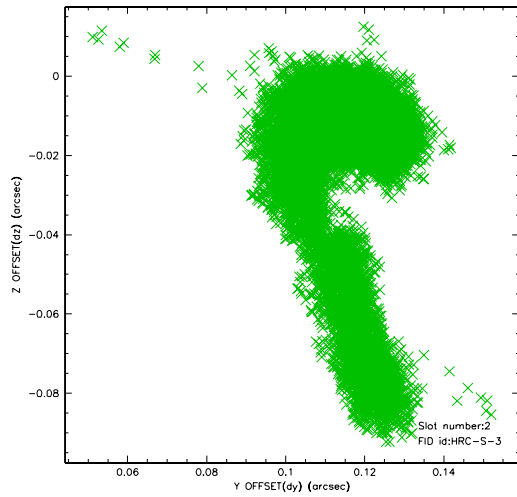
2.5.1 Slot 0



2.5.2 Slot 1

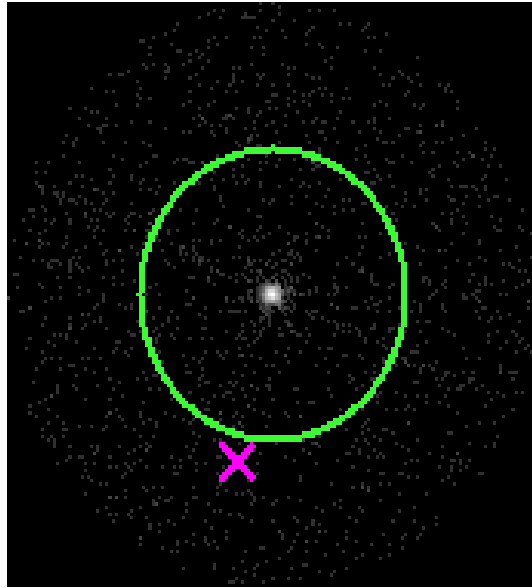


2.5.3 Slot 2



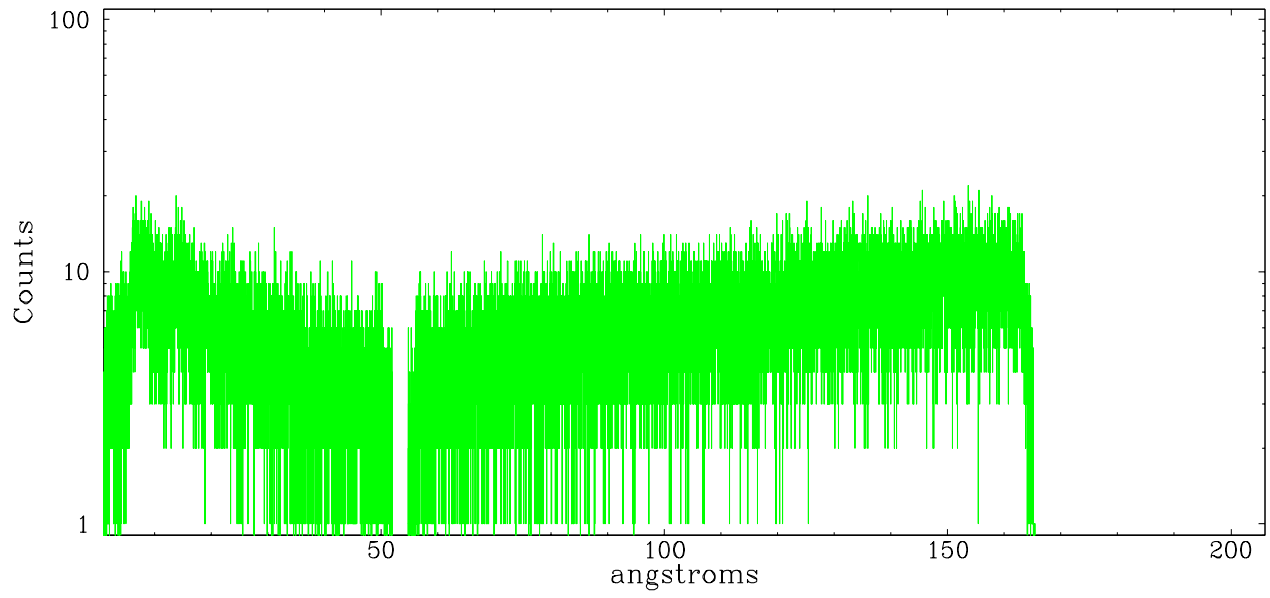
3 Gratings

3.1 LETG Arm

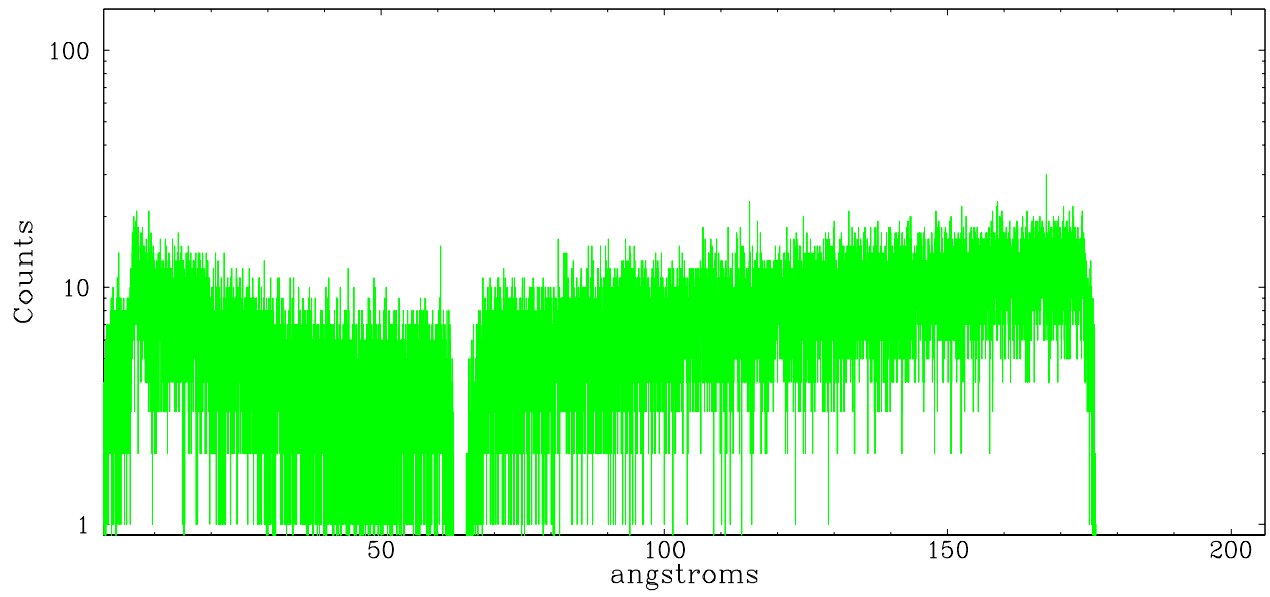


LETG Zero Order

leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	101.144

A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.

HRC reported that the count rate appeared very high during the realtime pass from day 355: 12-13 GMT. The count rate was also highly variable, which is not common except in the rad zone. The HRC team determined the count rates do not cause a concern for the instrument, but may affect the quality of the science.