

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5036 - L2 Version 001  
Chandra X-Ray Center

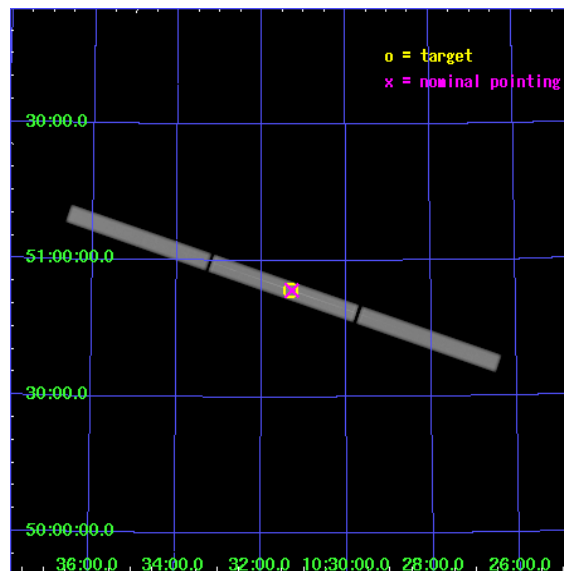
L2 Processing Date : Jun 1 2006

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# 1 Front

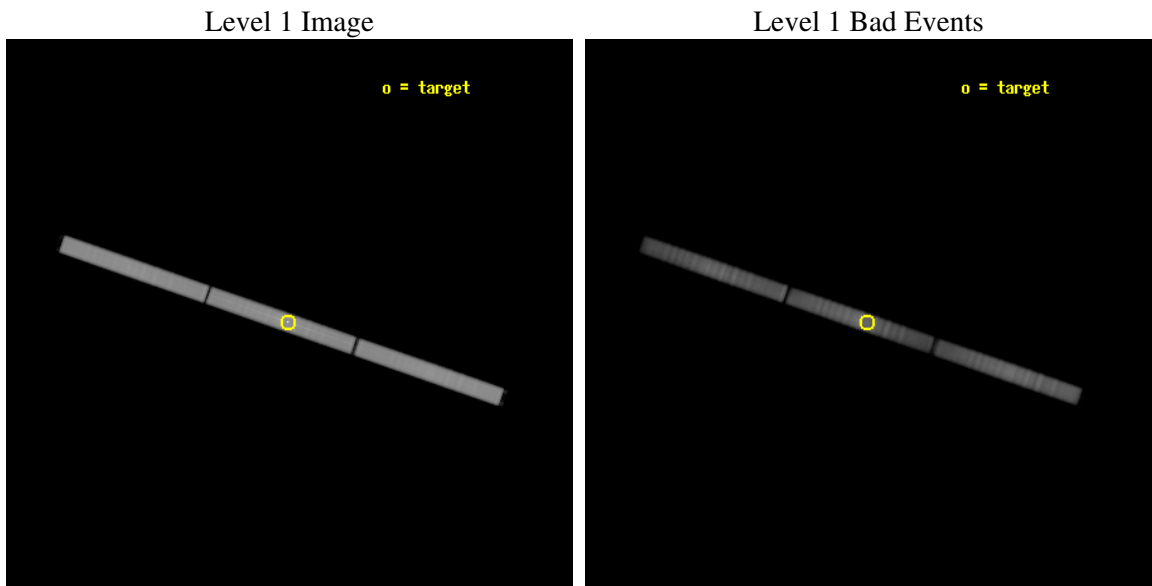
seq_num	900343
obs_id	5036
title	X-Raying the Intergalactic Medium with Blazars in Outburst
observer	Dr. Fabrizio Nicastro
object	1ES 1028+511
ra_targ	157.826667
dec_targ	50.893333
ra_nom	157.81961783971
dec_nom	50.891941704763
roll_nom	198.95199163169
revision	2
ontime	149861.41282383
livetime	149042.55863329
l2events	6927970



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



## 2.1.2 Parameters

obi_num	1
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-31T18:37:49
revision	2

sched_exp_time	150028.886000
ontime	149959.55657813
l1events	10221625

## 2.1.3 Events

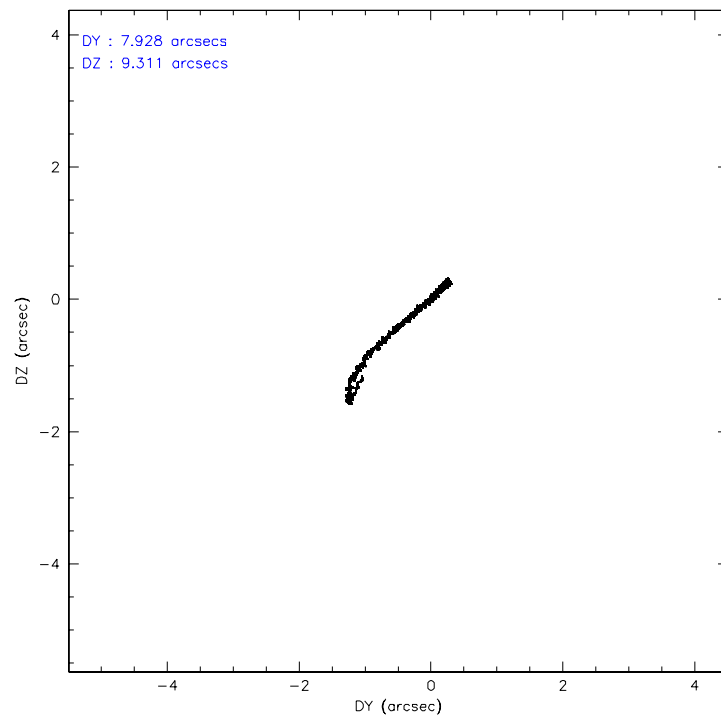
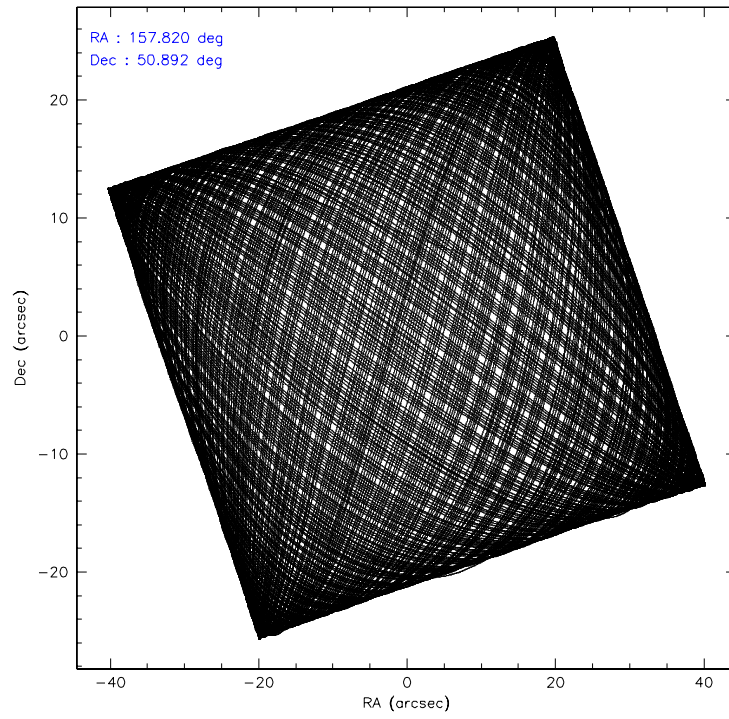
### Level 1 Events

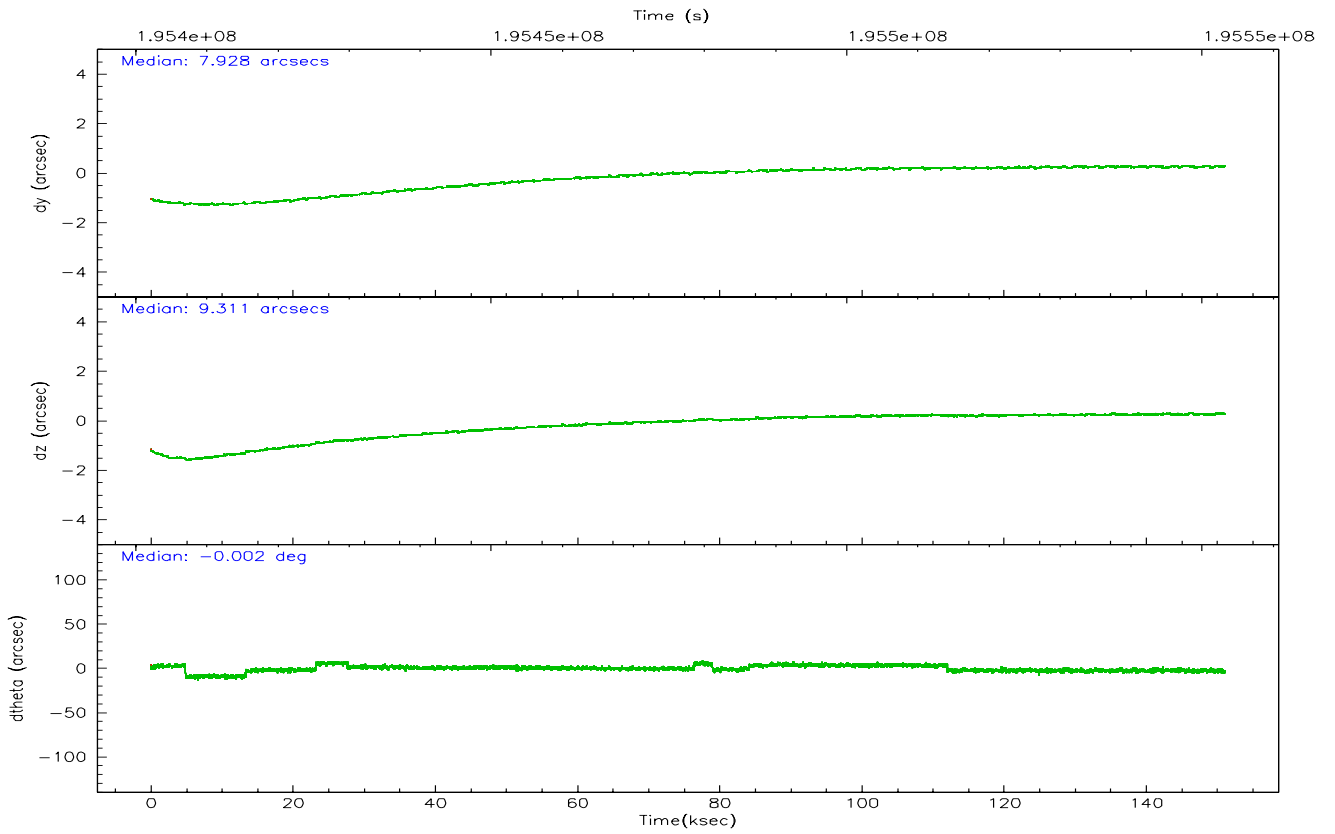
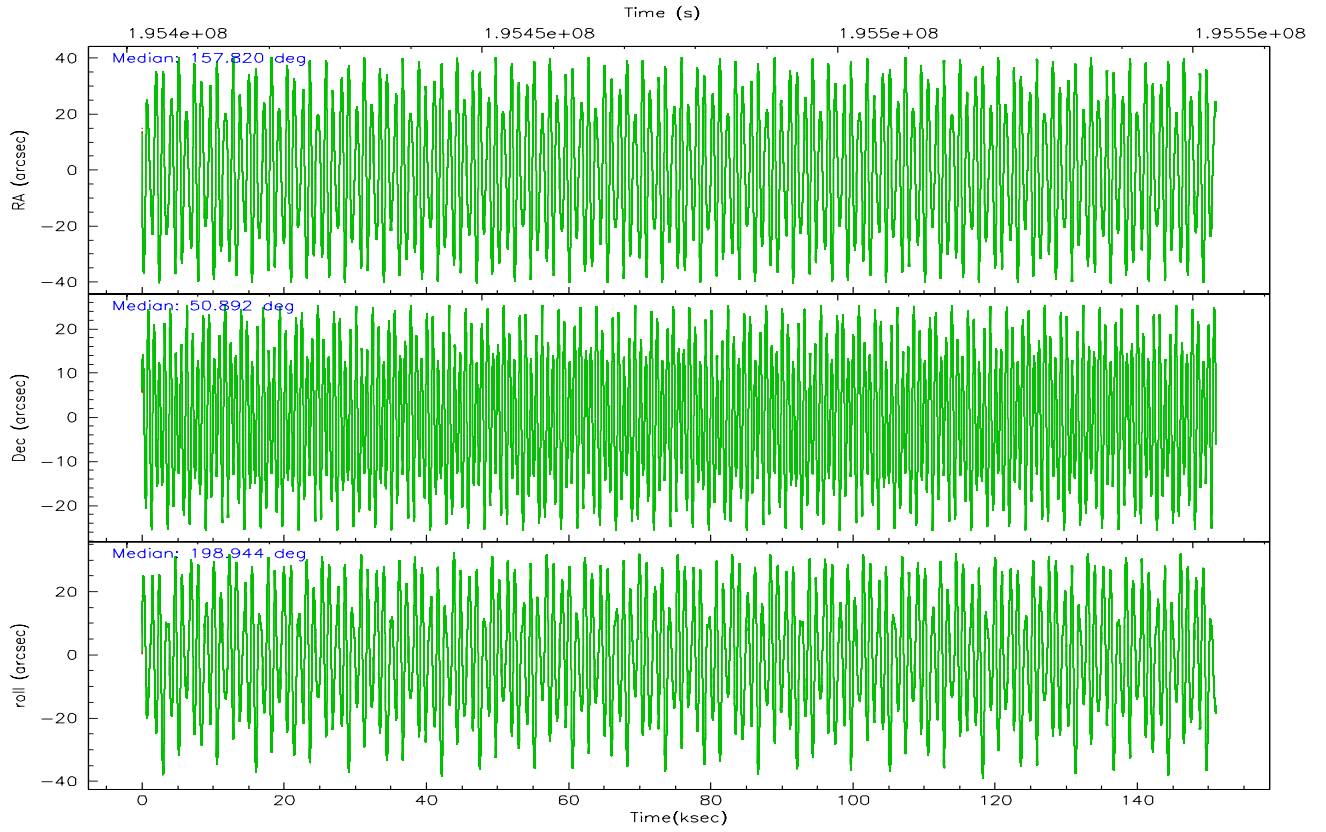
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	3392469	3424922	3404234
rejected events	700030	764009	856460
rejected %	20%	22%	25%

## 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	157.847647	157.819617839708			
Pointing Dec	50.914419	50.89194170476271			
Pointing Roll	198.862903	198.9519916316945			
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	195402298.184000	195400362.7394			
Observation start date	2004-03-11T14:23:54	2004-03-11T13:52:42			
Observation end time	195552327.184000	195553782.18363			
Observation end date	2004-03-13T08:04:23	2004-03-13T08:29:42			

## 2.3 Aspect



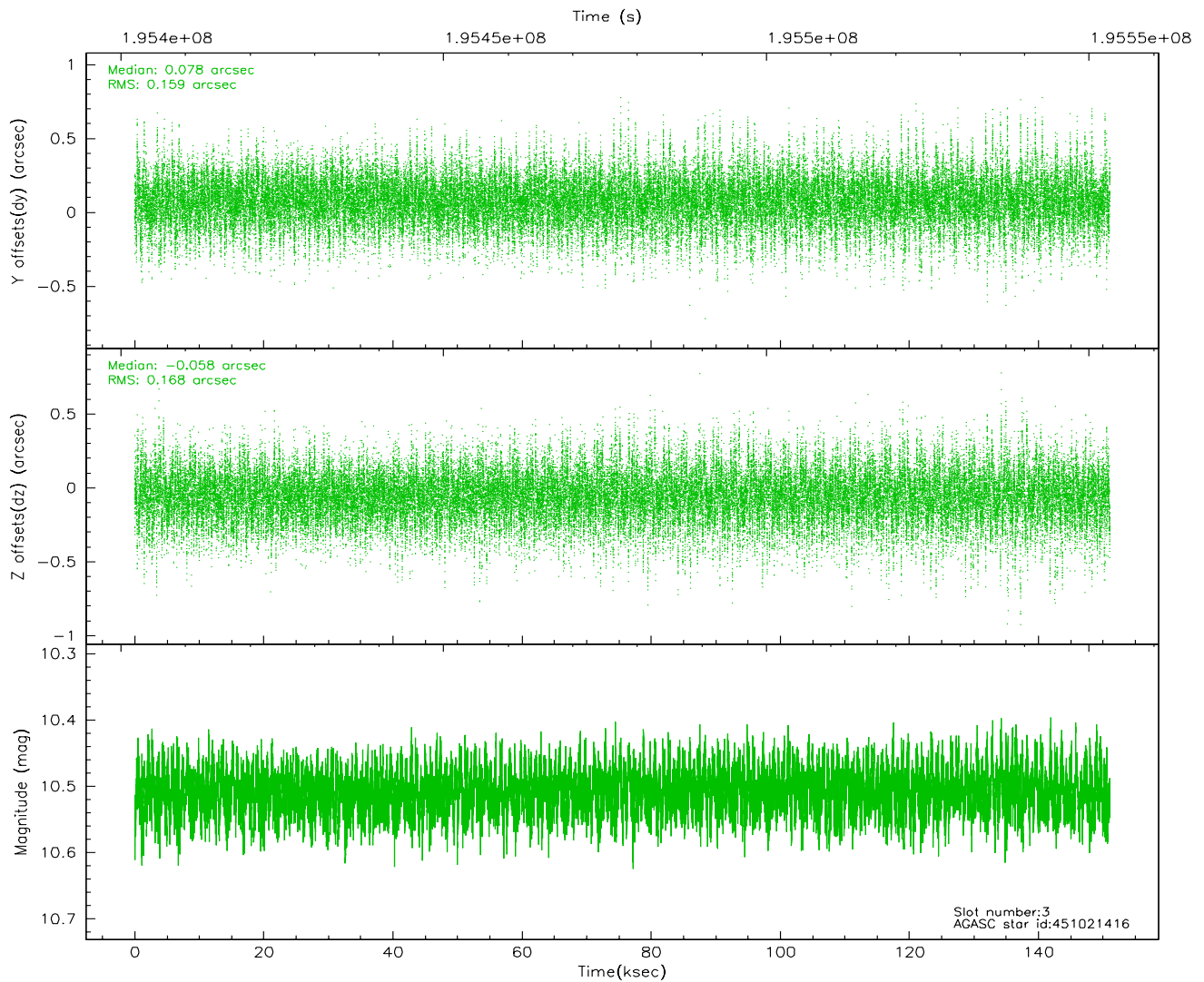
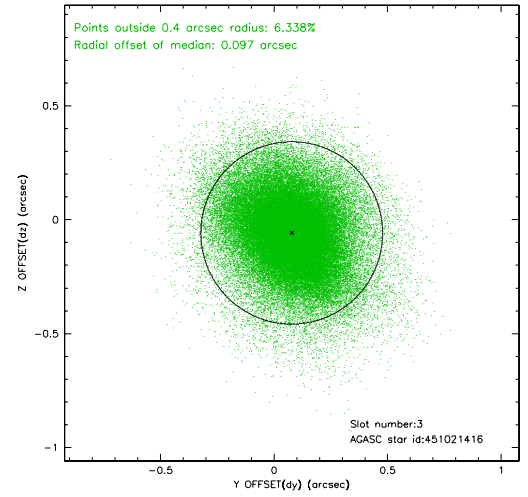
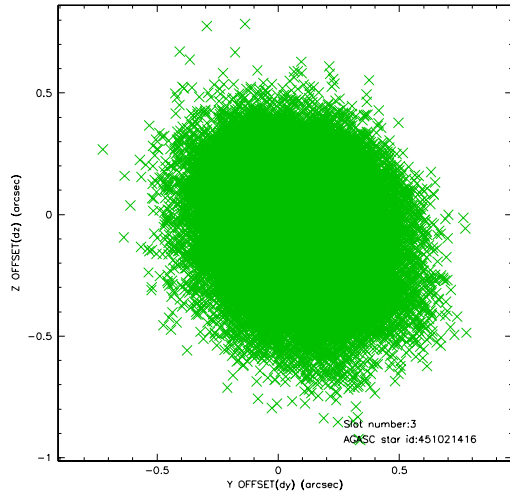


### Slot Statistics

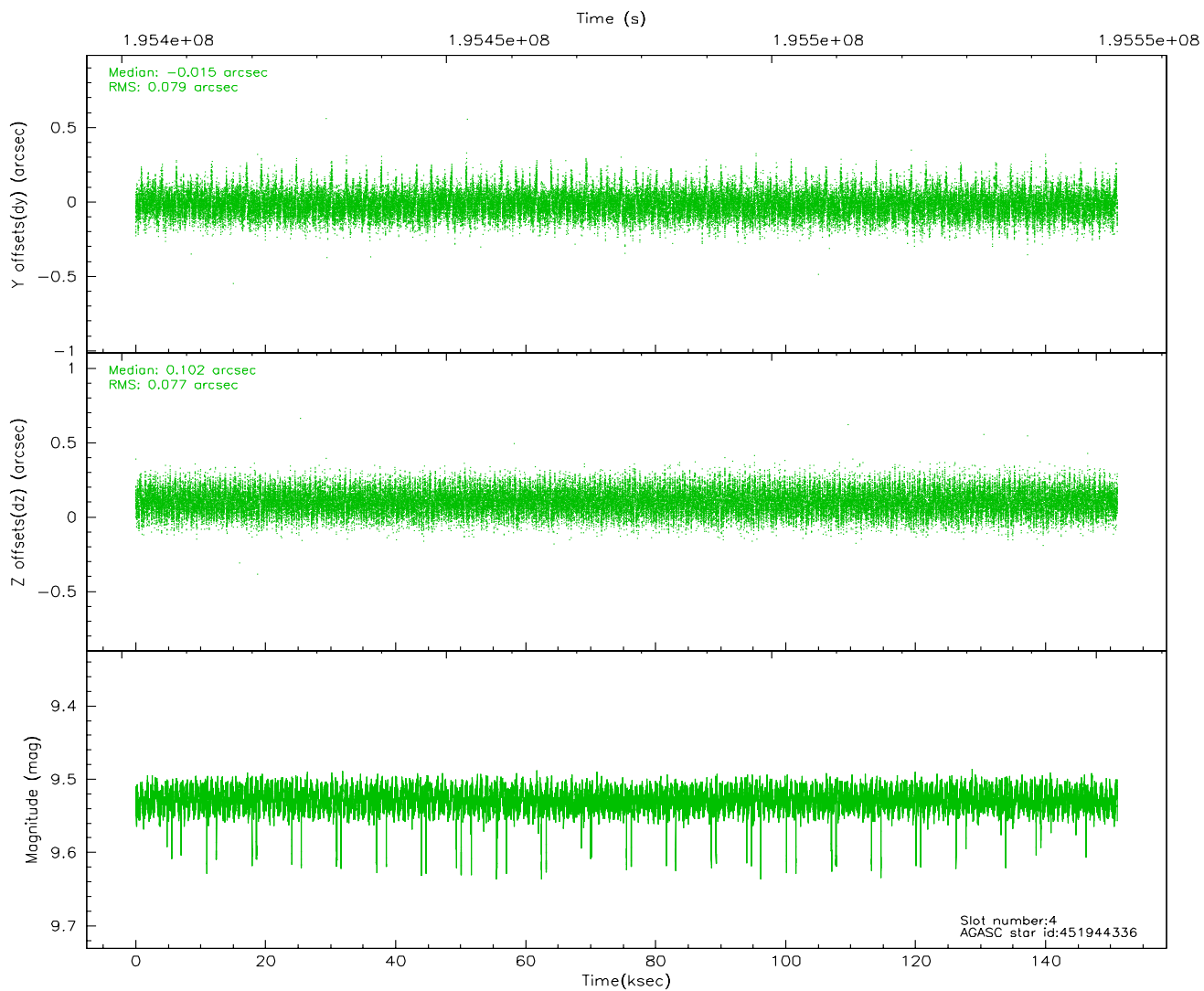
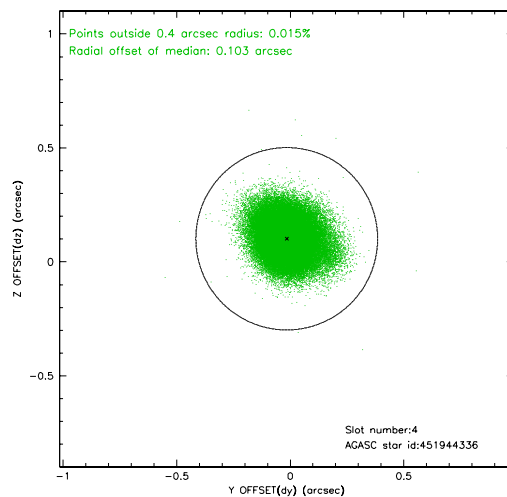
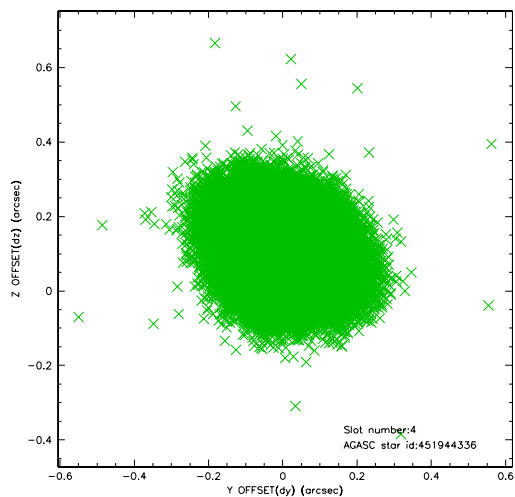
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	36847	0.117	-0.177	0.025	0.066	0.000000	0.000000	-1161.89	-457.72
1	FID	HRC-S-3	7.02	36849	0.068	-0.024	0.026	0.085	0.000000	0.000000	-1164.66	571.92
2	FID	HRC-S-4	6.99	36849	0.201	-0.094	0.008	0.020	0.000000	0.000000	1236.45	574.40
3	GUIDE	451021416	10.51	73608	0.078	-0.058	0.237	0.421	156.715618	51.325746	1925.47	-2242.61
4	GUIDE	451944336	9.53	73538	-0.015	0.102	0.117	0.194	158.260486	51.372141	-1411.08	-1261.65
5	GUIDE	451944368	9.65	73489	-0.059	0.027	0.107	0.173	158.476406	50.750715	-1166.24	1014.92
6	GUIDE	451944768	9.21	73661	-0.003	-0.125	0.101	0.170	157.673498	51.401166	-195.92	-1784.85
7	GUIDE	451946208	6.96	73693	-0.008	0.056	0.076	0.130	157.563600	50.569125	1016.23	965.65

## 2.4 Star Slots

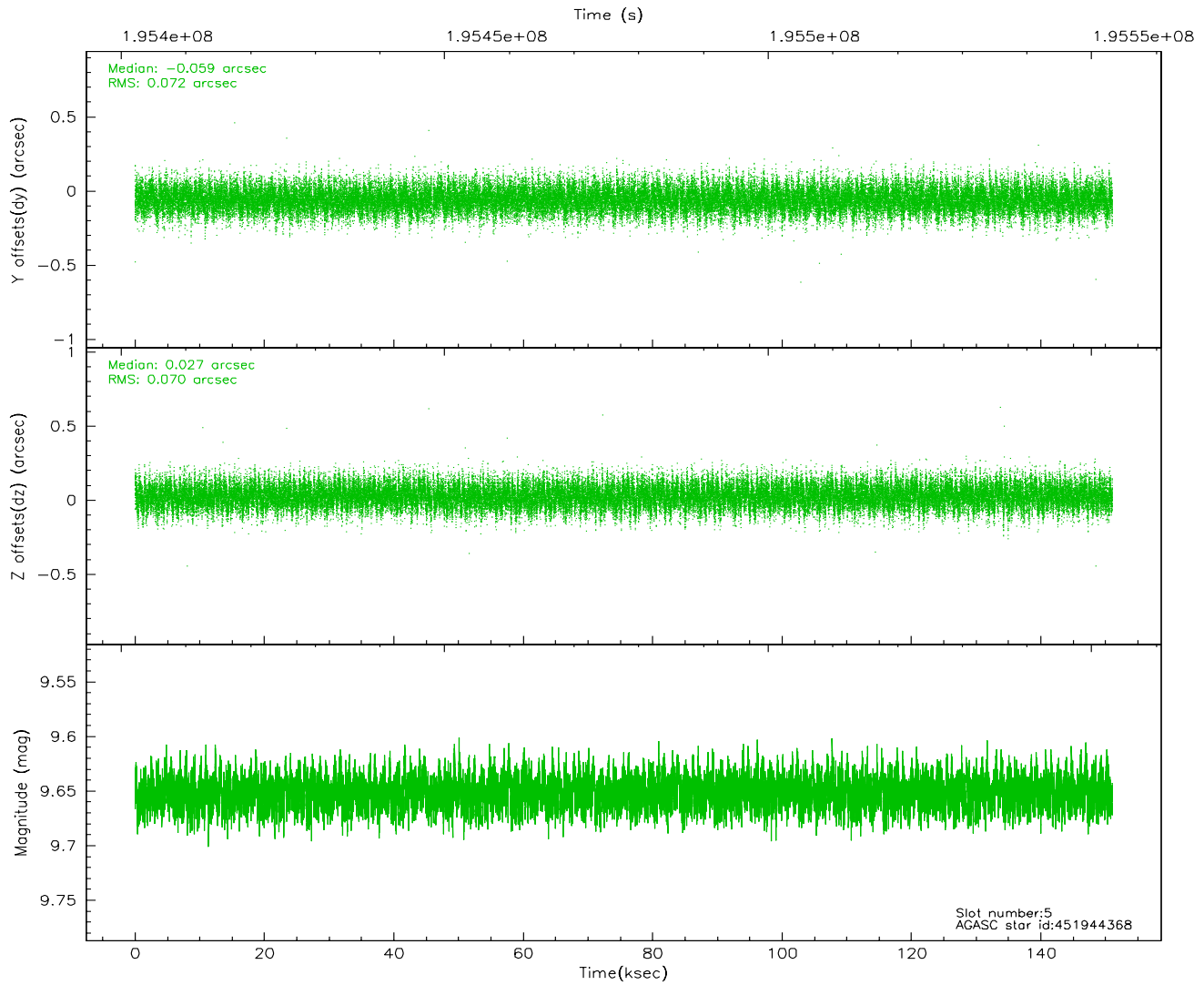
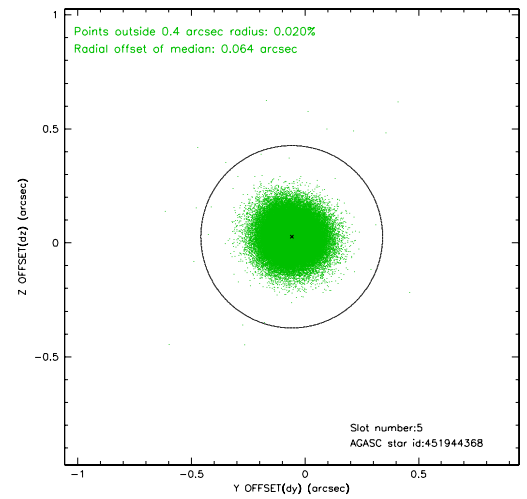
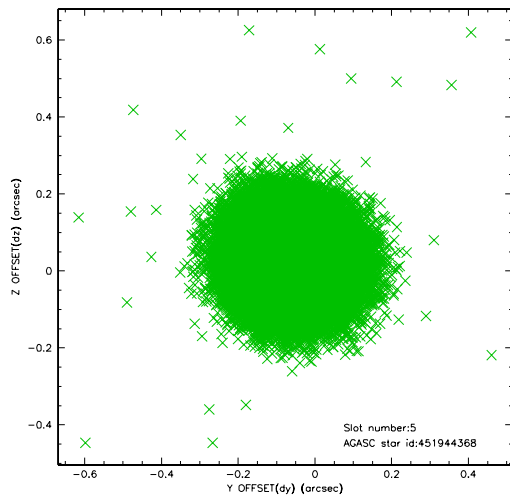
### 2.4.1 Slot 3



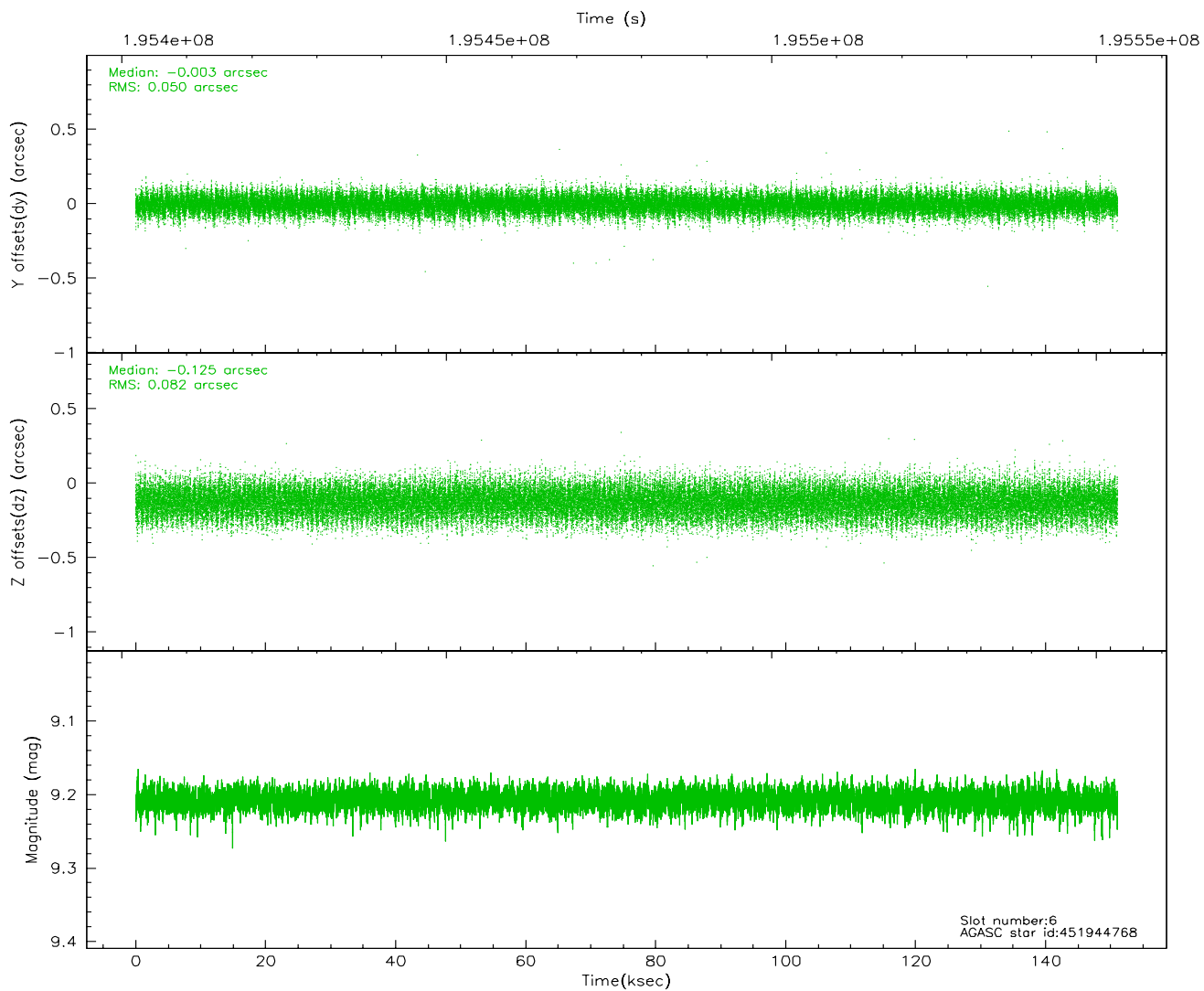
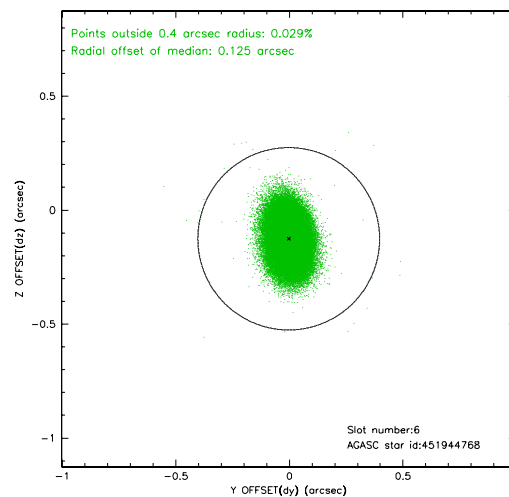
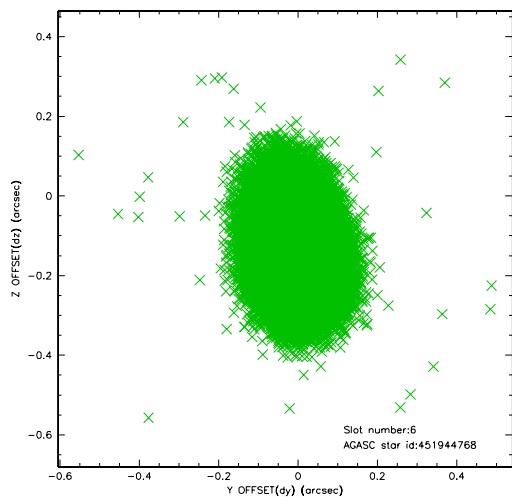
## 2.4.2 Slot 4



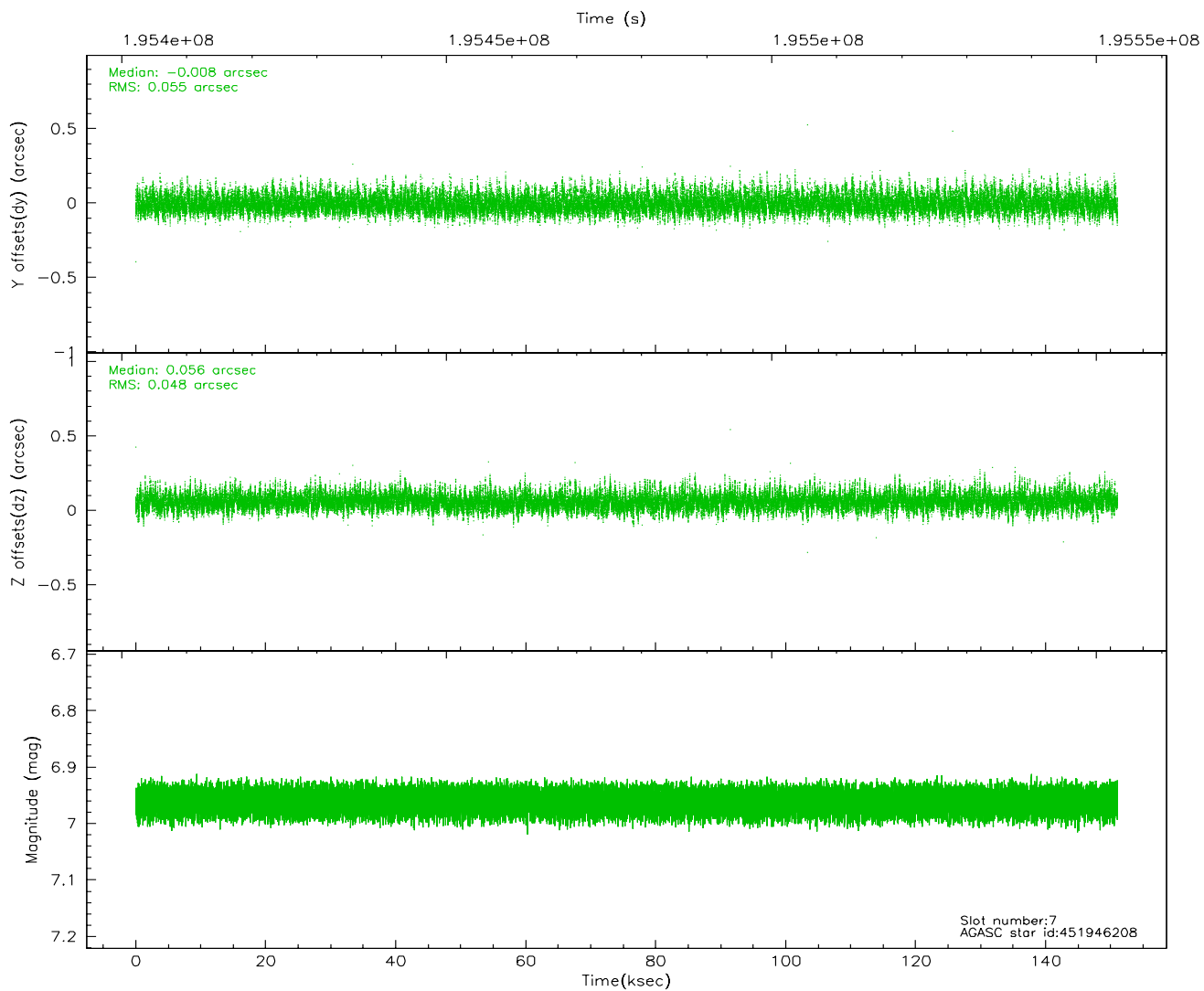
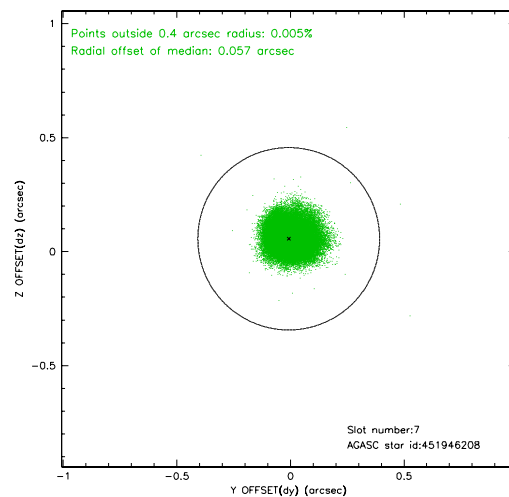
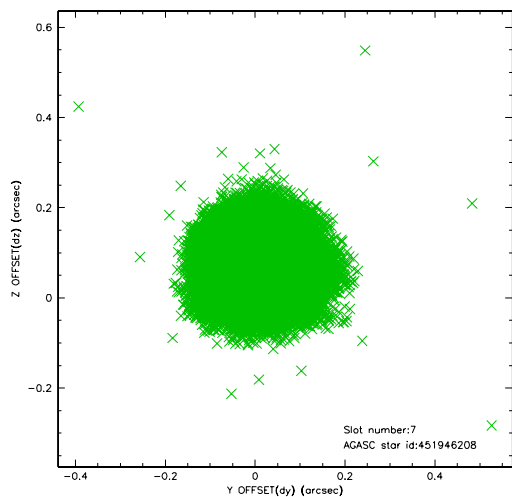
### 2.4.3 Slot 5



### 2.4.4 Slot 6

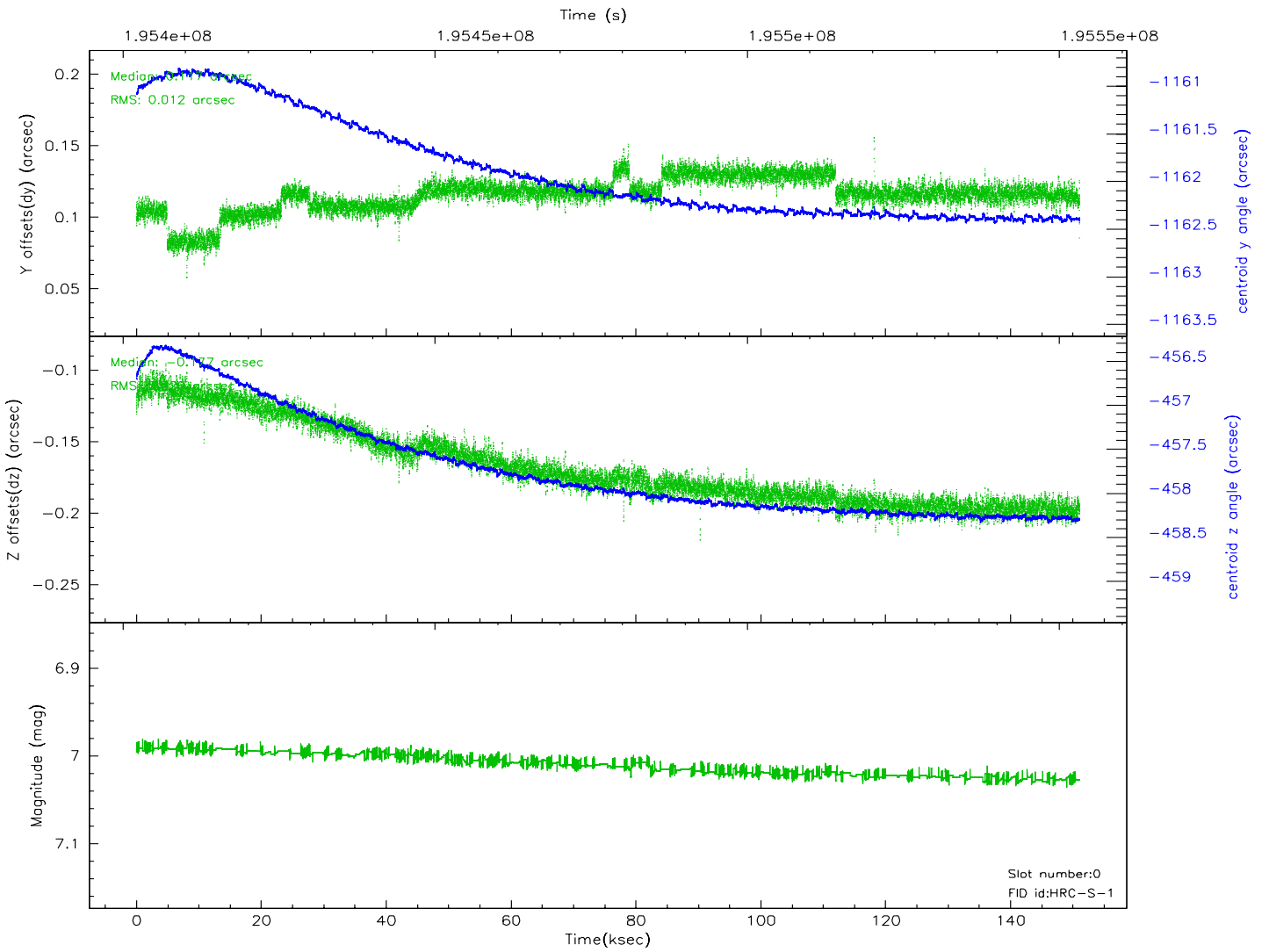
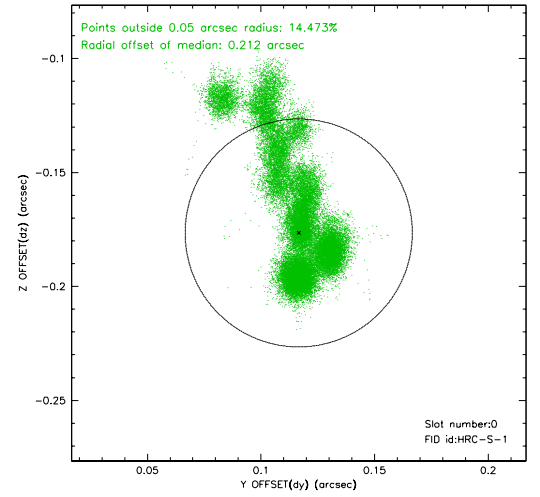
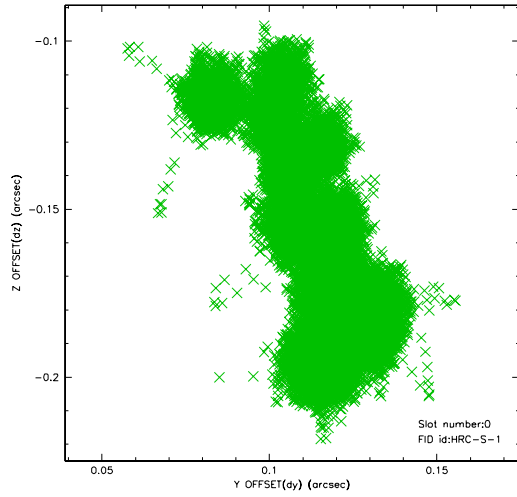


## 2.4.5 Slot 7

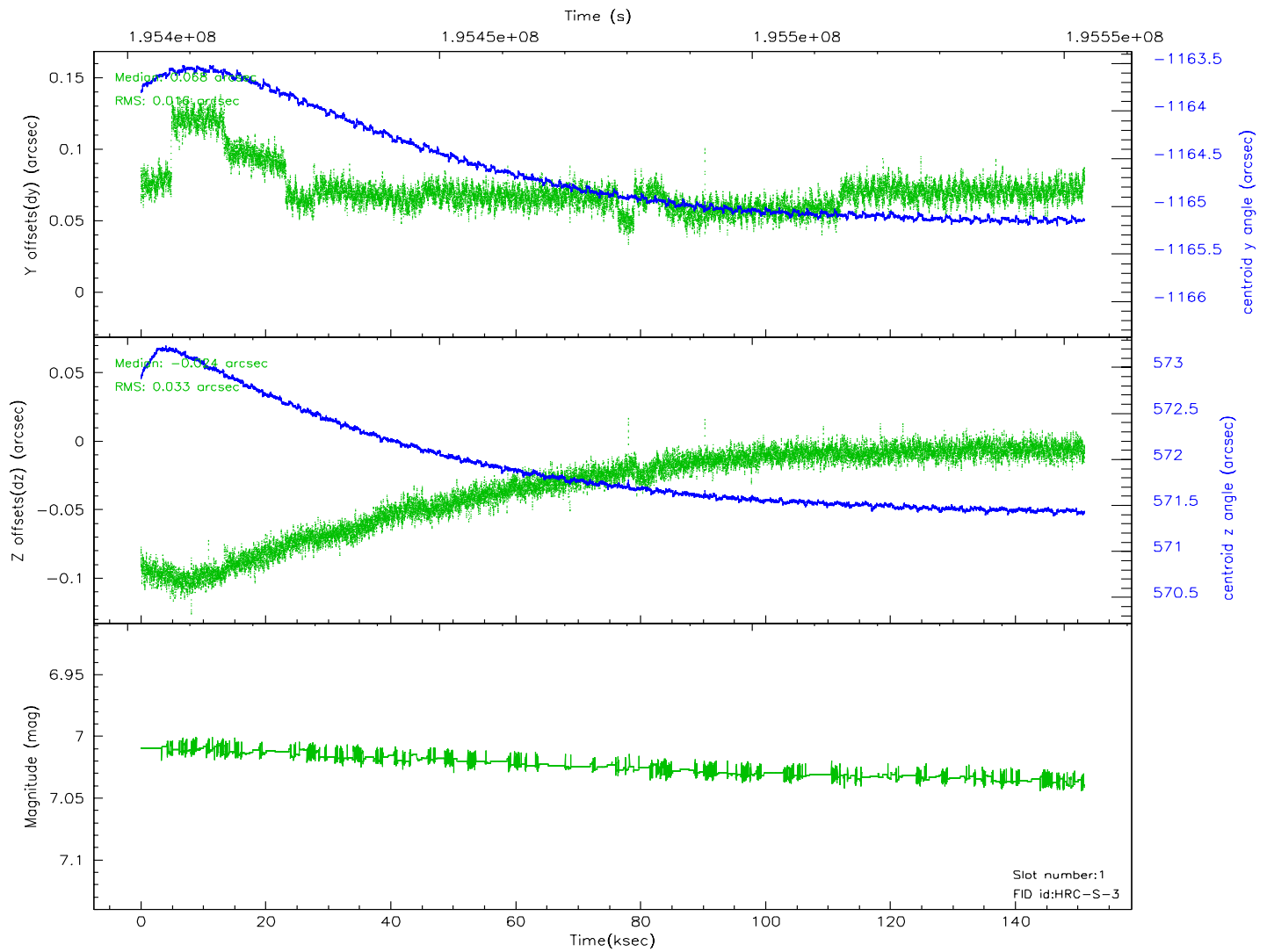
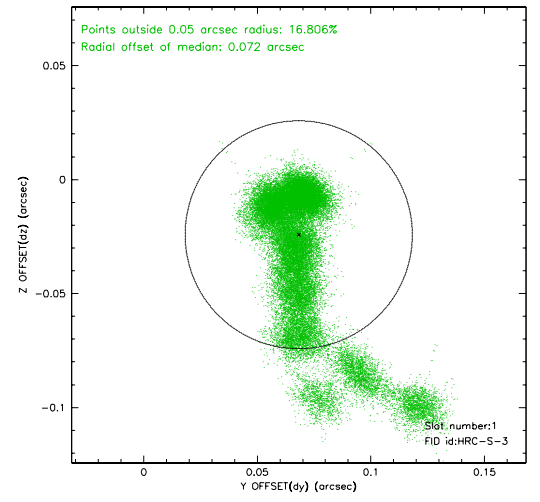
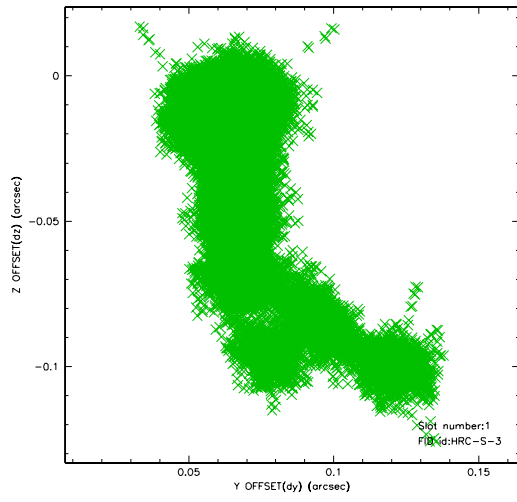


## 2.5 FID Slots

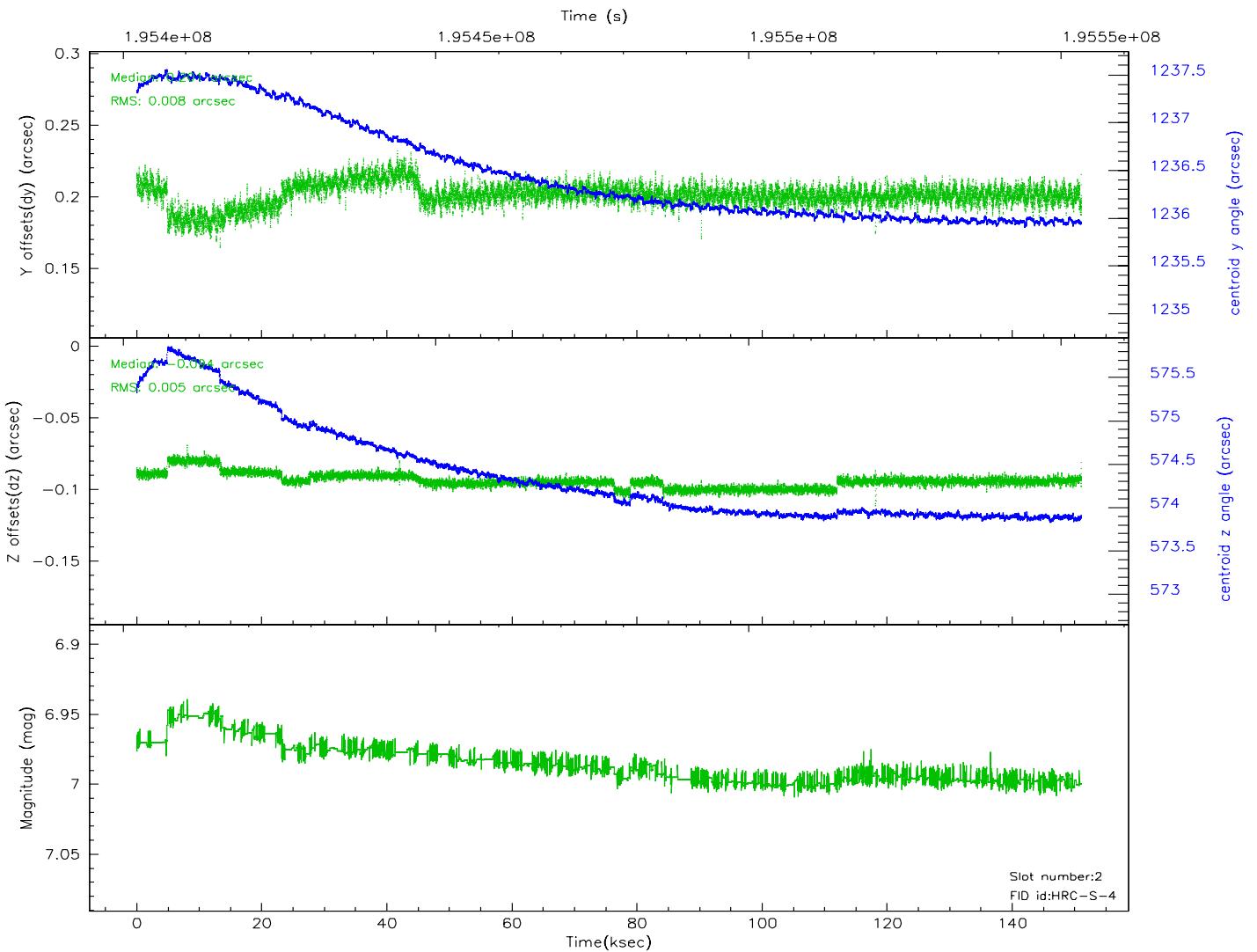
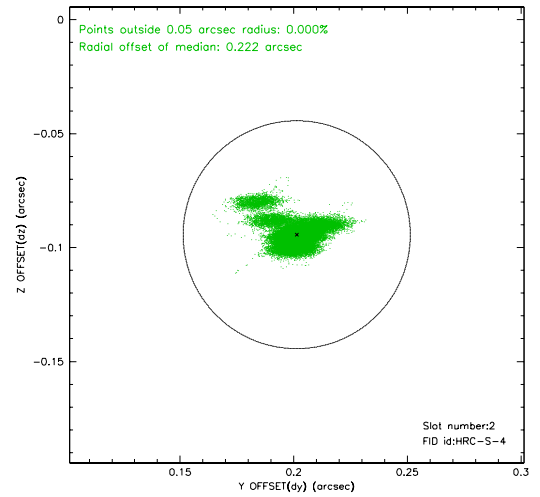
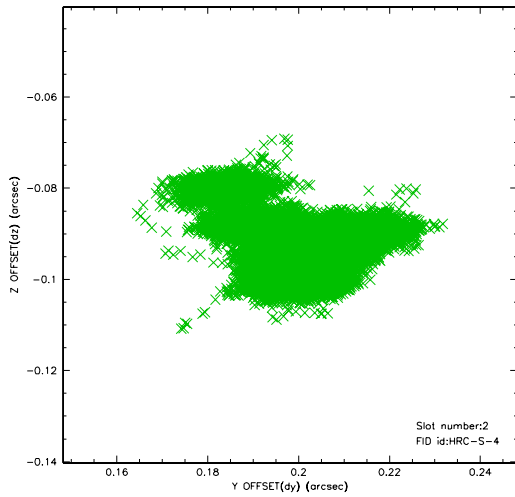
### 2.5.1 Slot 0



## 2.5.2 Slot 1

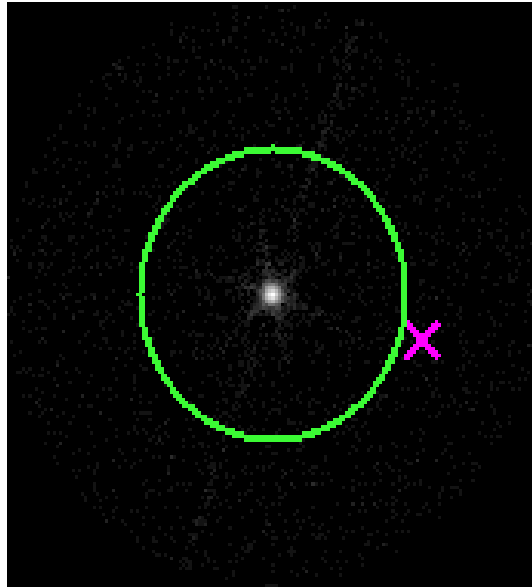


### 2.5.3 Slot 2



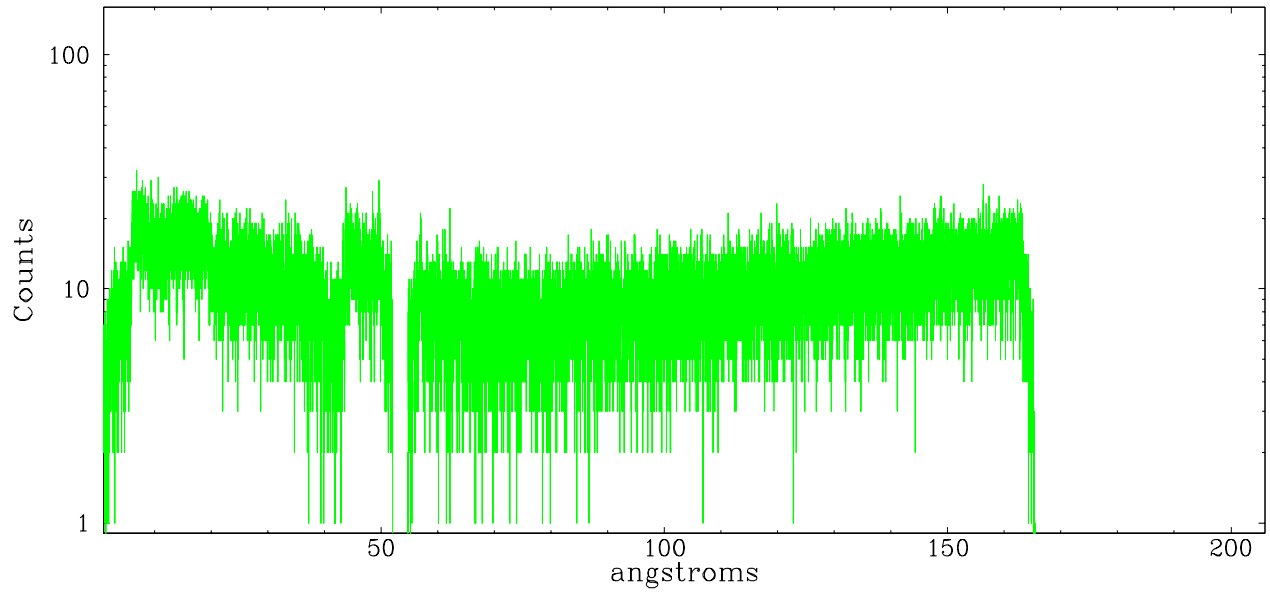
### 3 Gratings

#### 3.1 LETG Arm

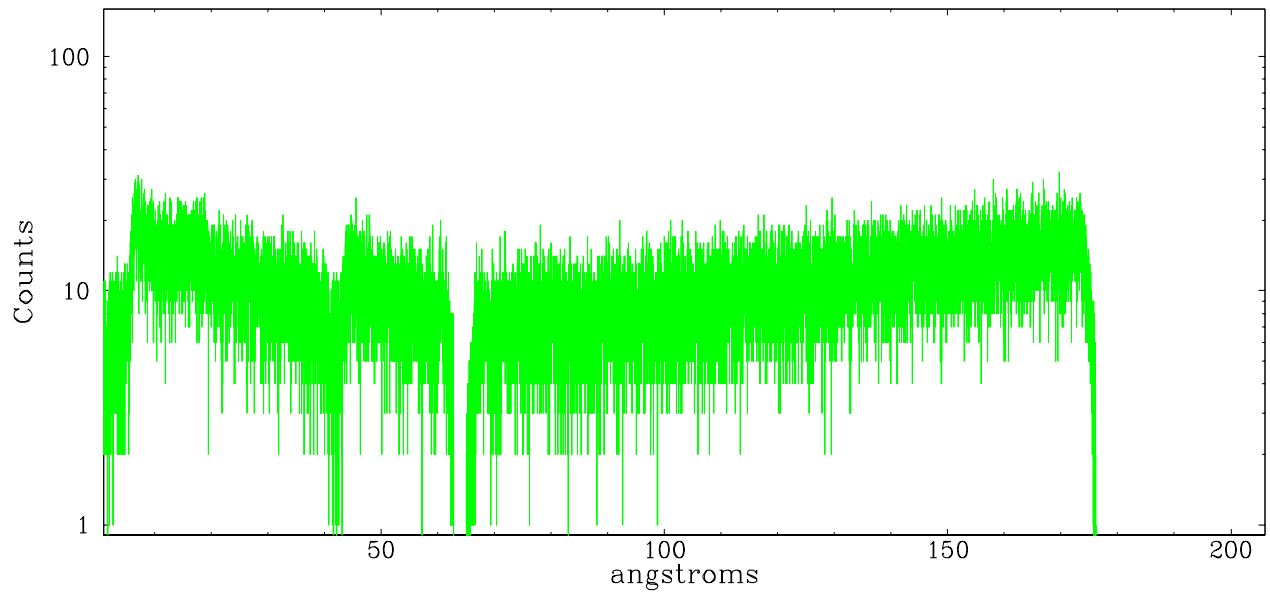


LETG Zero Order

leg order -1



leg order +1



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	149.861

## A.2 Comments

The keywords DTCOR, EXPOSURE, and LIVETIME in the Level 2 event file and the

keyword DTCOR in the Level 1 event file have been incorrectly determined due to a software bug. The correct value of DTCOR can be found in the file DTFSTATS file that can be obtained by downloading the Secondary Data Products. In most cases, the difference between the correct DTCOR value and the incorrect DTCOR value in the Level 2 event file is very small and does not affect the data analysis. However, there are cases of significant differences and the user is advised to use the DTCOR in the DTFSTATS file for analysis. Corrected data products will be made available in the archive as soon as feasible.