

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 645 - L2 Version 5
Chandra X-Ray Center

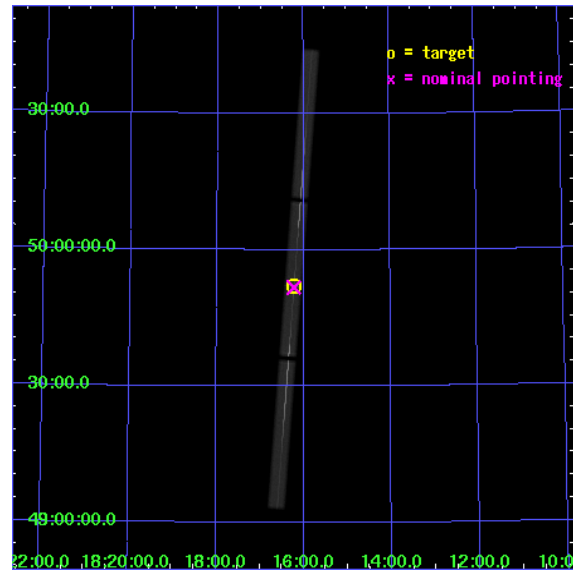
L2 Processing Date : Aug 3 2007

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1 Front

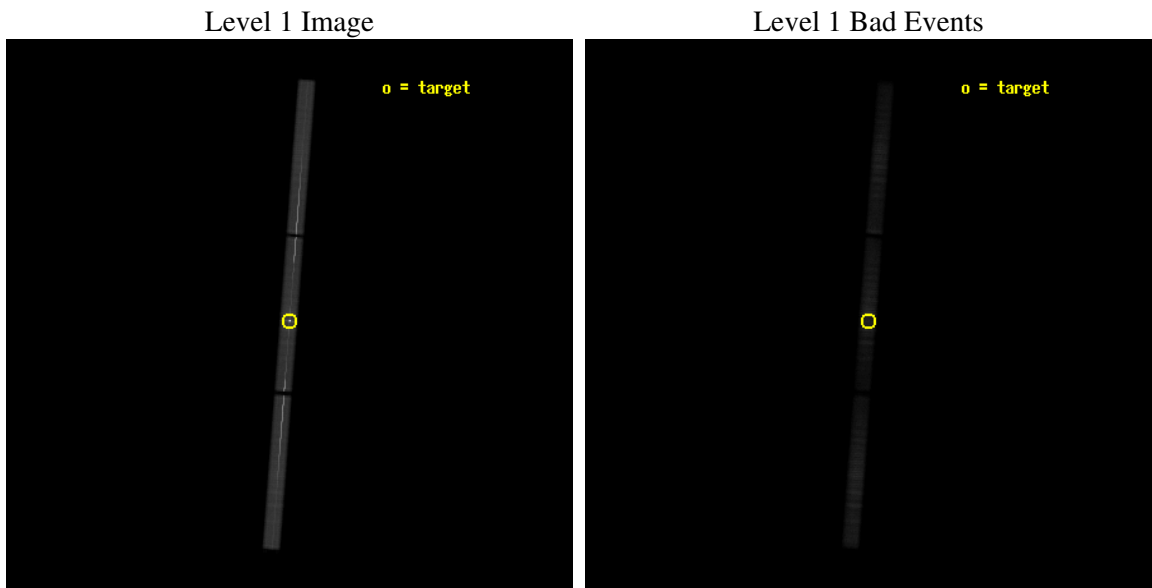
seq_num	300014
obs_id	645
title	THE TEMPERATURE STRUCTURE IN THE ACCRETION REGION OF AM HERCULIS
observer	DR. KLAUS REINSCH
object	AM HER
ra_targ	274.055417
dec_targ	49.8675
ra_nom	274.05571745787
dec_nom	49.862580525146
roll_nom	274.33754669316
revision	5
ontime	24117.482159495
livetime	23969.656636594
l2events	1214461



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-09T13:54:11
revision	4

sched_exp_time	24000.000000
ontime	24117.482159495
l1events	1781956

2.1.3 Events

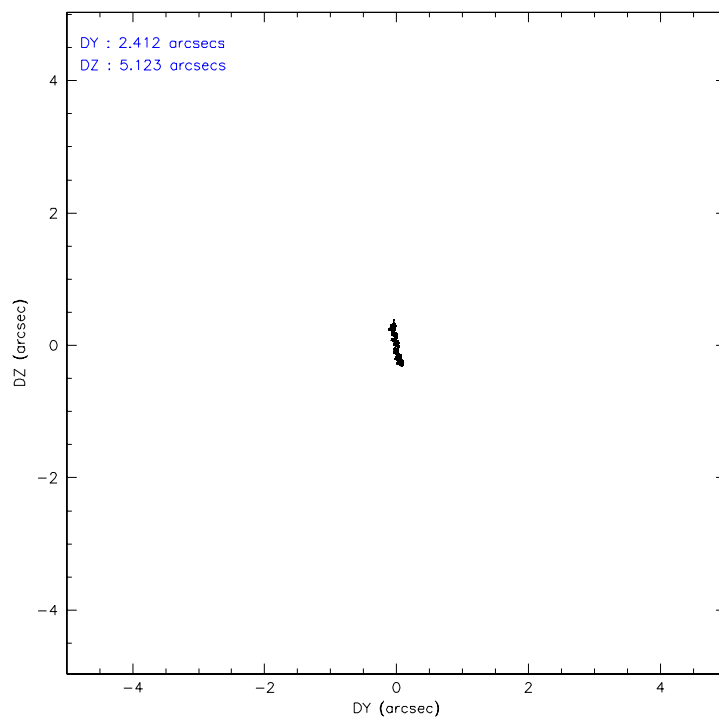
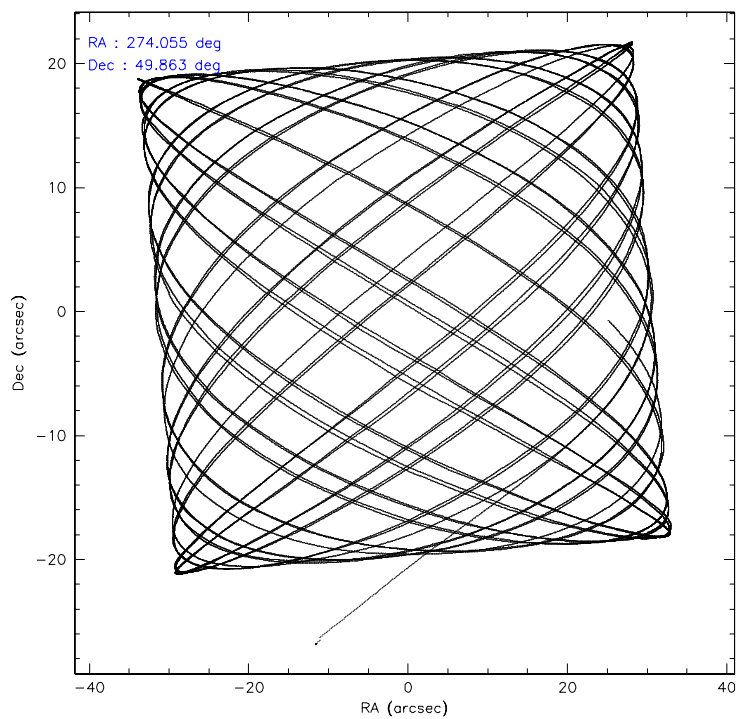
Level 1 Events

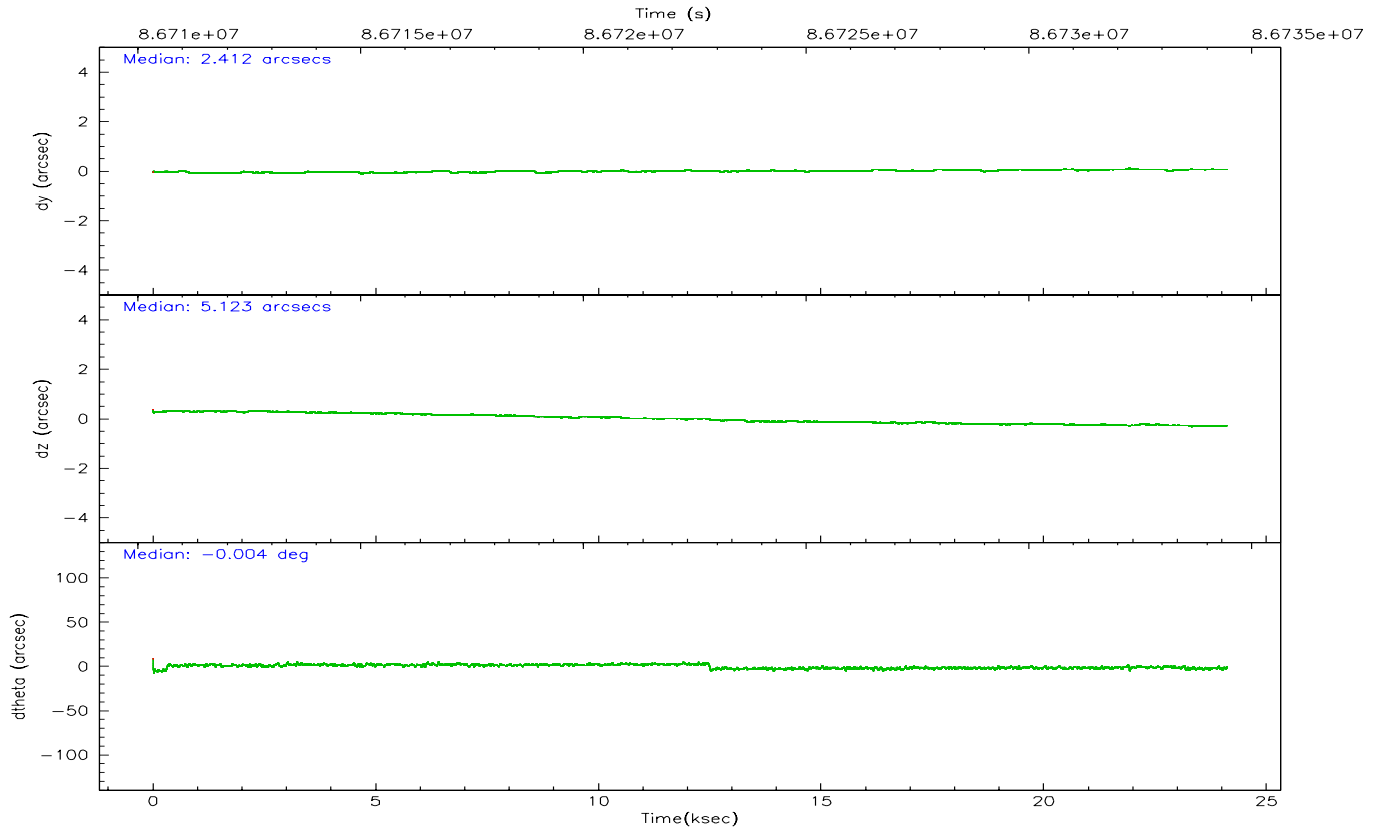
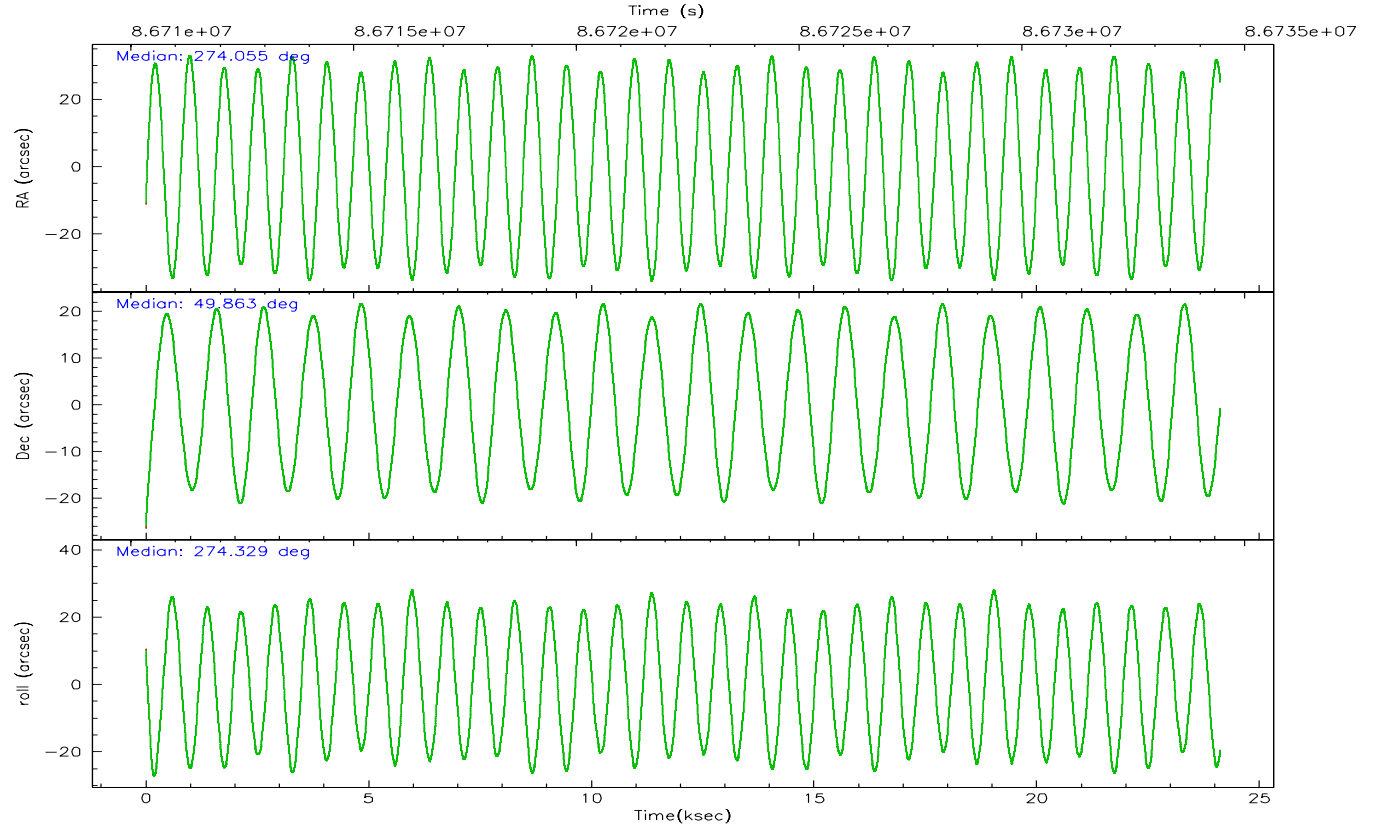
	segment 1	segment 2	segment 3
level 1 events	552930	652628	576398
rejected events	135878	142771	159202
rejected %	24%	21%	27%

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	274.028932	274.0557174578663			
Pointing Dec	49.885610	49.86258052514586			
Pointing Roll	274.290689	274.3375466931614			
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	86710458.184000	86709224.535199			
Observation start date	2000-09-30T14:13:14	2000-09-30T13:53:44			
Observation end time	86734458.184000	86735122.69867601			
Observation end date	2000-09-30T20:53:14	2000-09-30T21:05:22			

2.3 Aspect



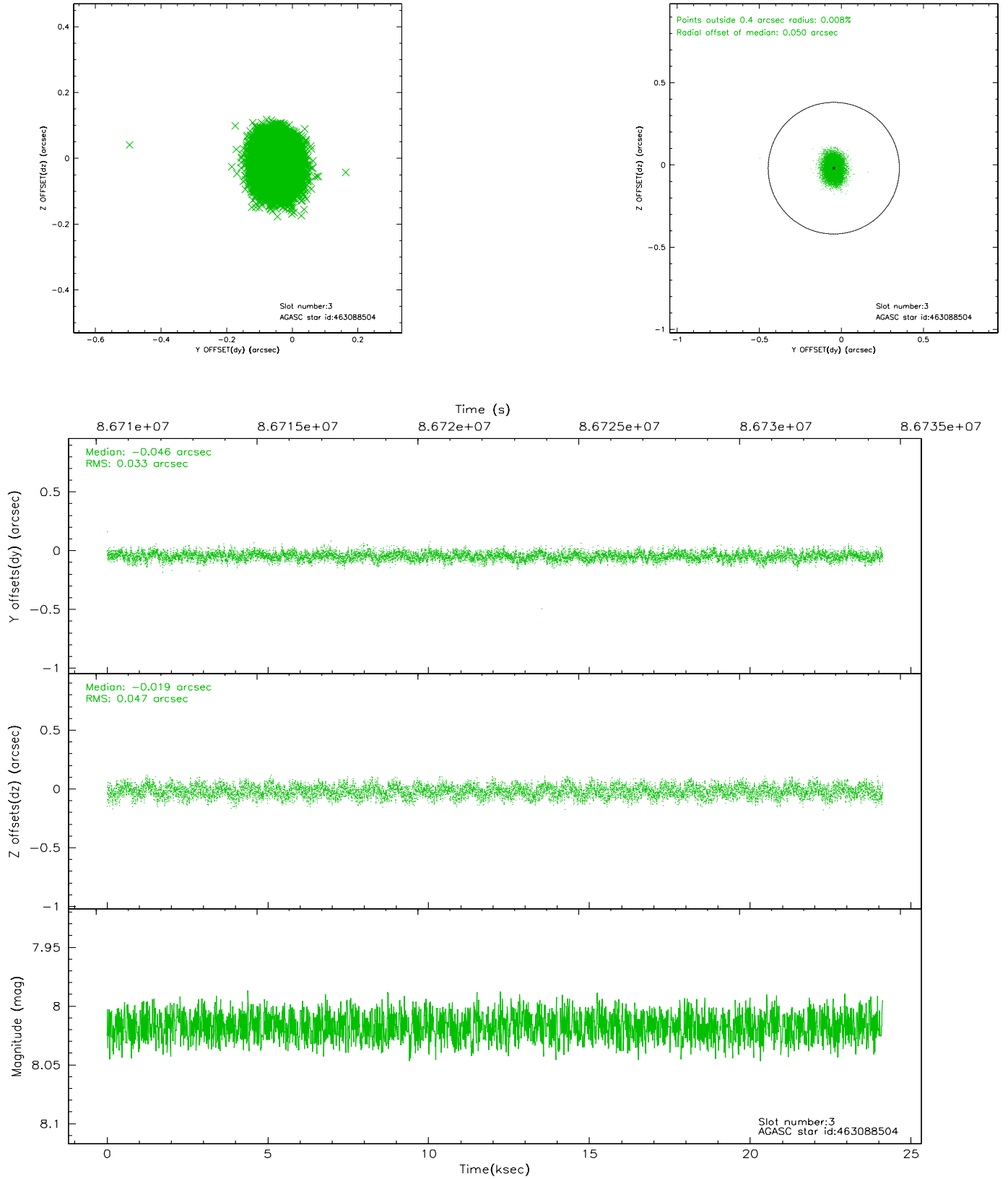


Slot Statistics

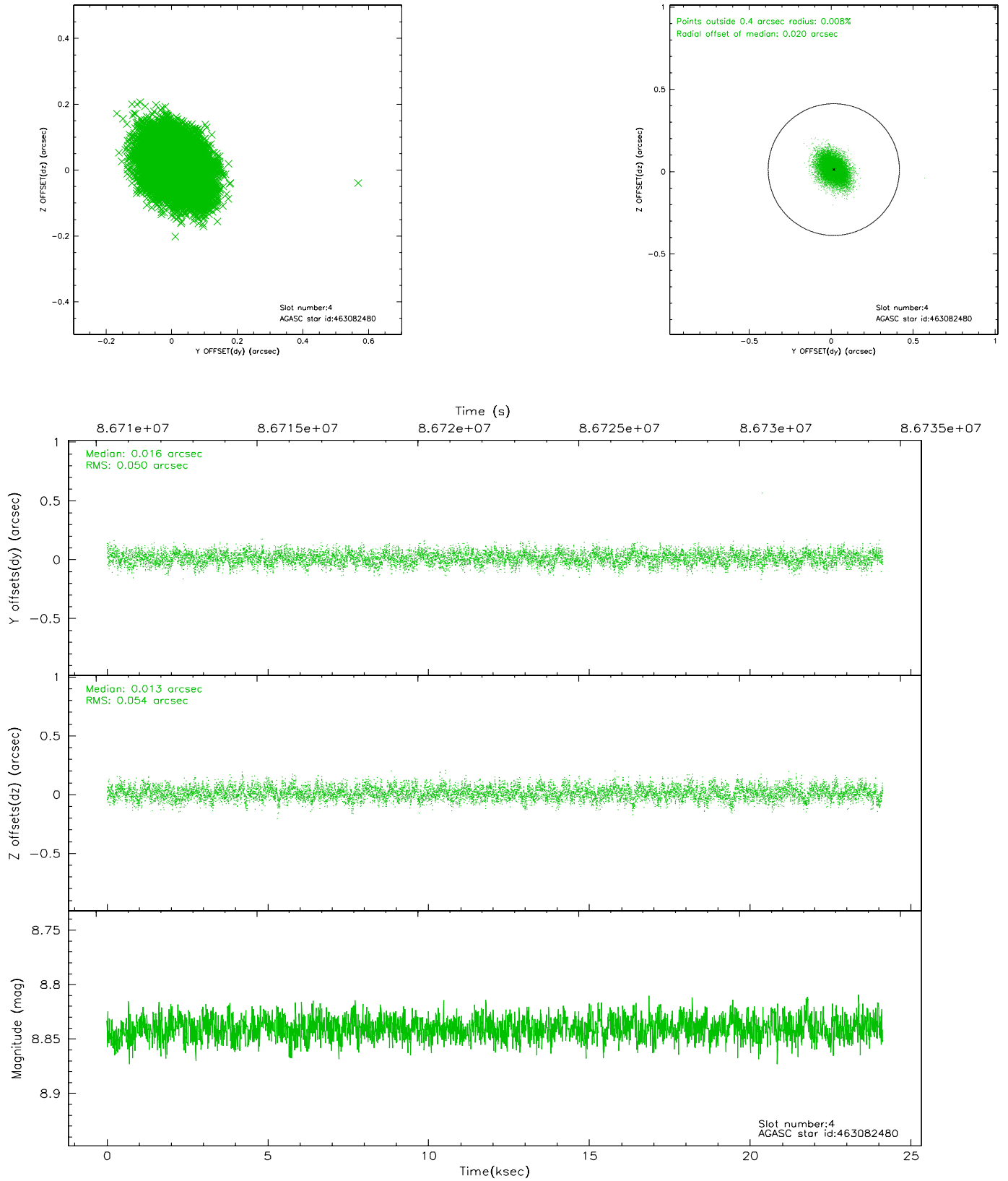
	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2
	FID	HRC-S-1	6.99	5883	0.121	-0.158	0.009	0.014
	FID	HRC-S-3	7.01	5883	0.146	-0.042	0.008	0.014
	FID	HRC-S-4	6.95	5883	0.121	-0.096	0.006	0.010
	GUIDE	463088504	8.02	11766	-0.046	-0.019	0.062	0.098
	GUIDE	463082480	8.84	11763	0.016	0.013	0.078	0.127
	GUIDE	463084696	9.04	11765	0.051	-0.008	0.079	0.125
	GUIDE	463087168	9.41	11763	-0.021	0.016	0.108	0.169
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00		

2.4 Star Slots

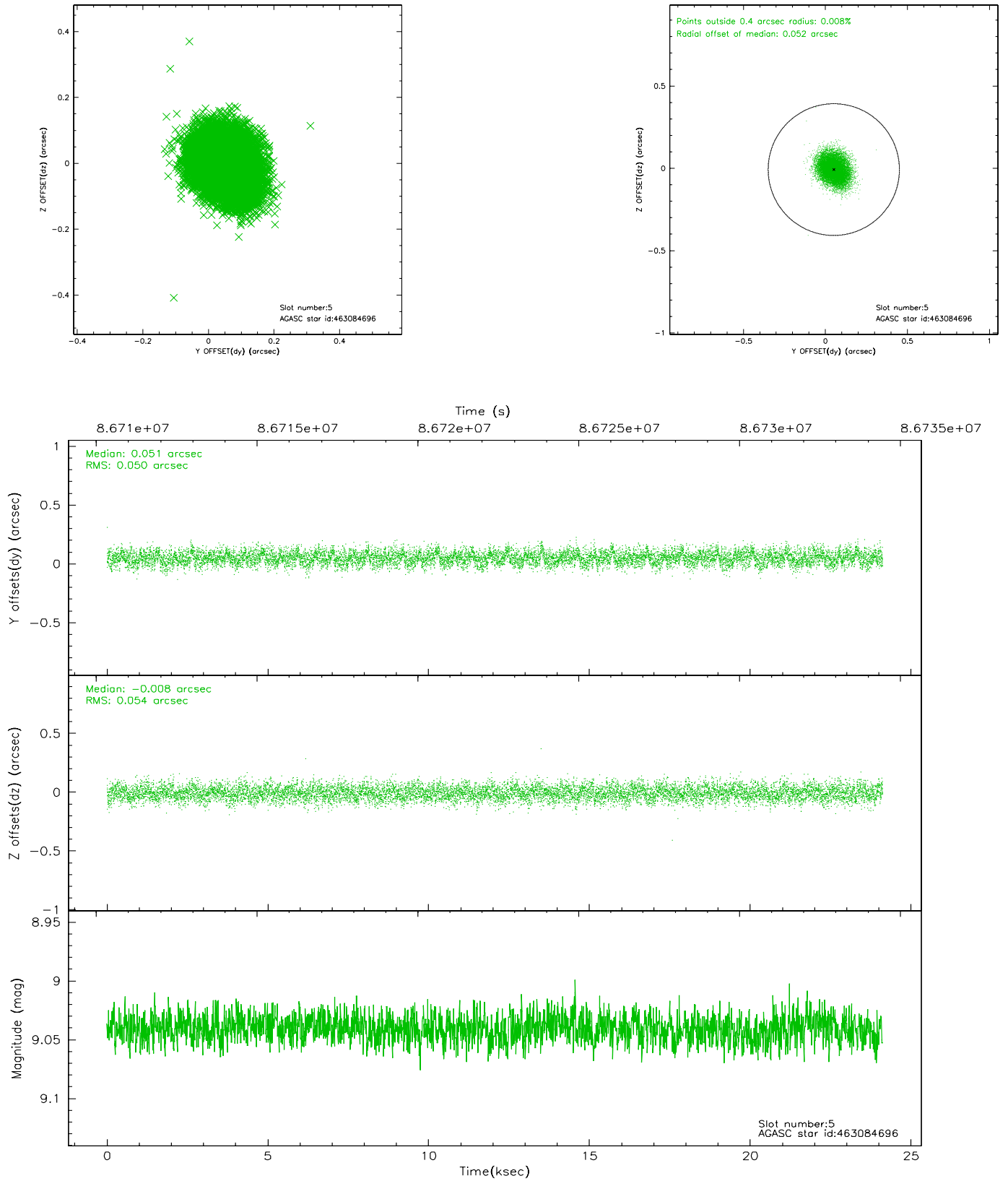
2.4.1 Slot 3



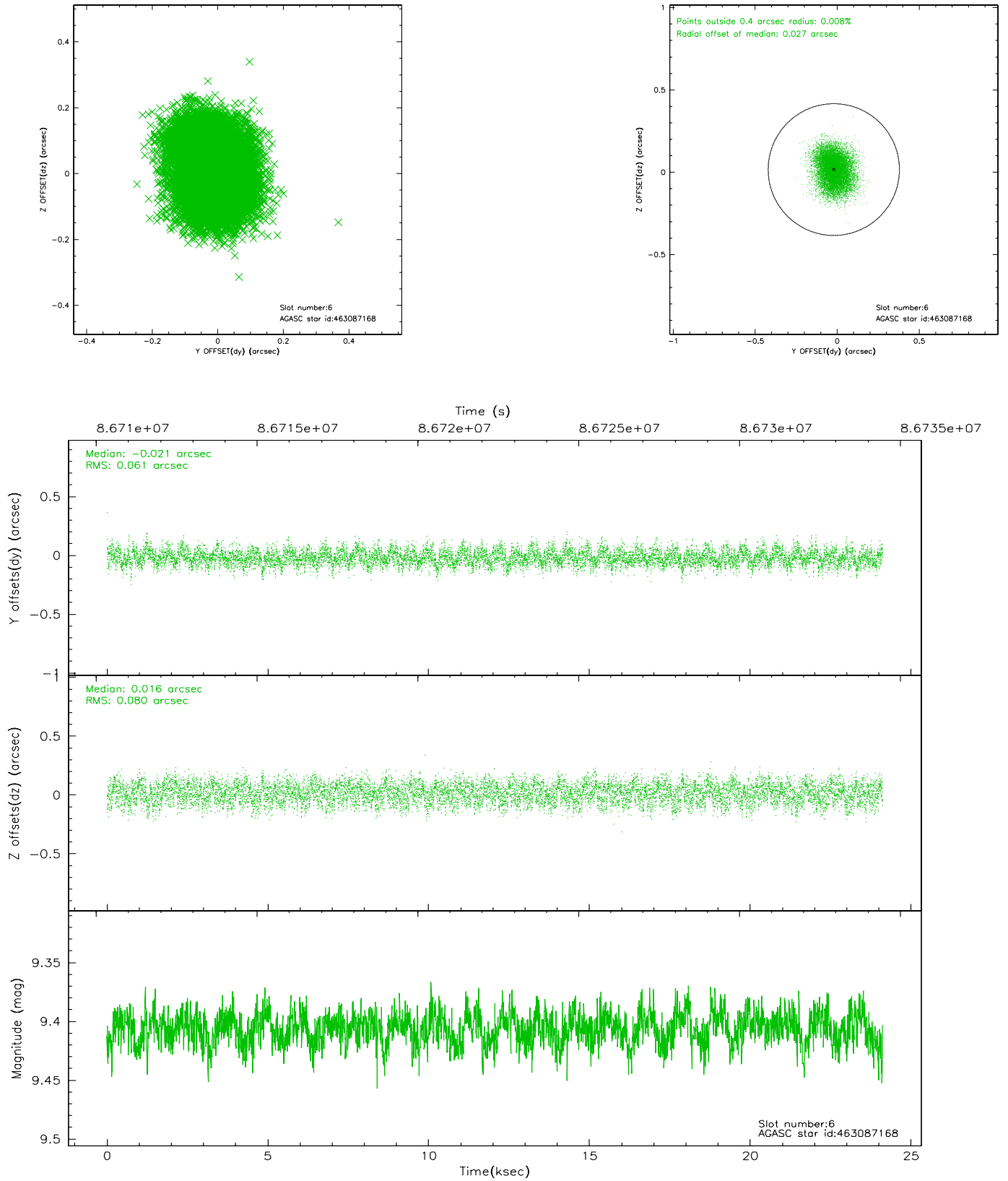
2.4.2 Slot 4



2.4.3 Slot 5

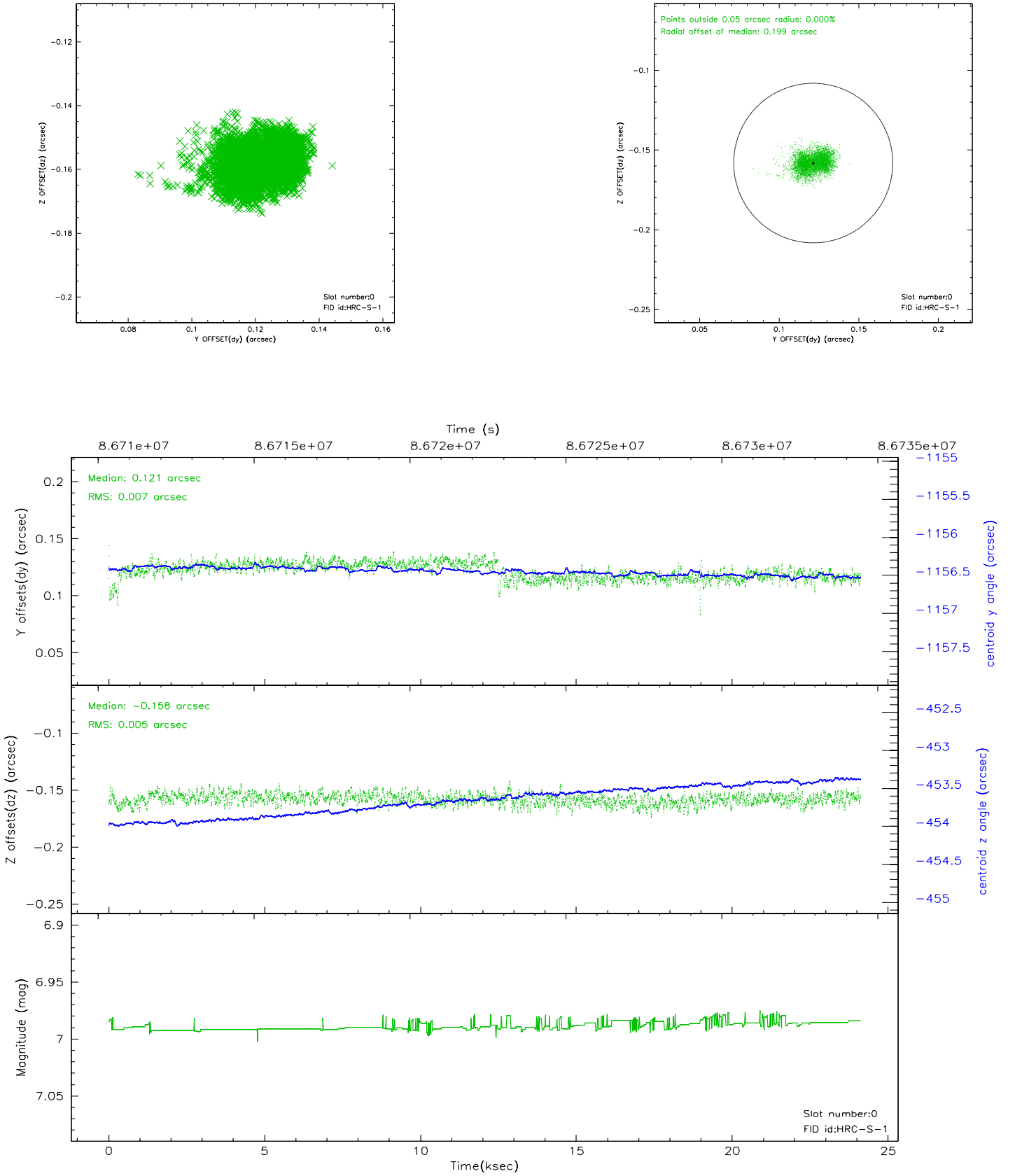


2.4.4 Slot 6

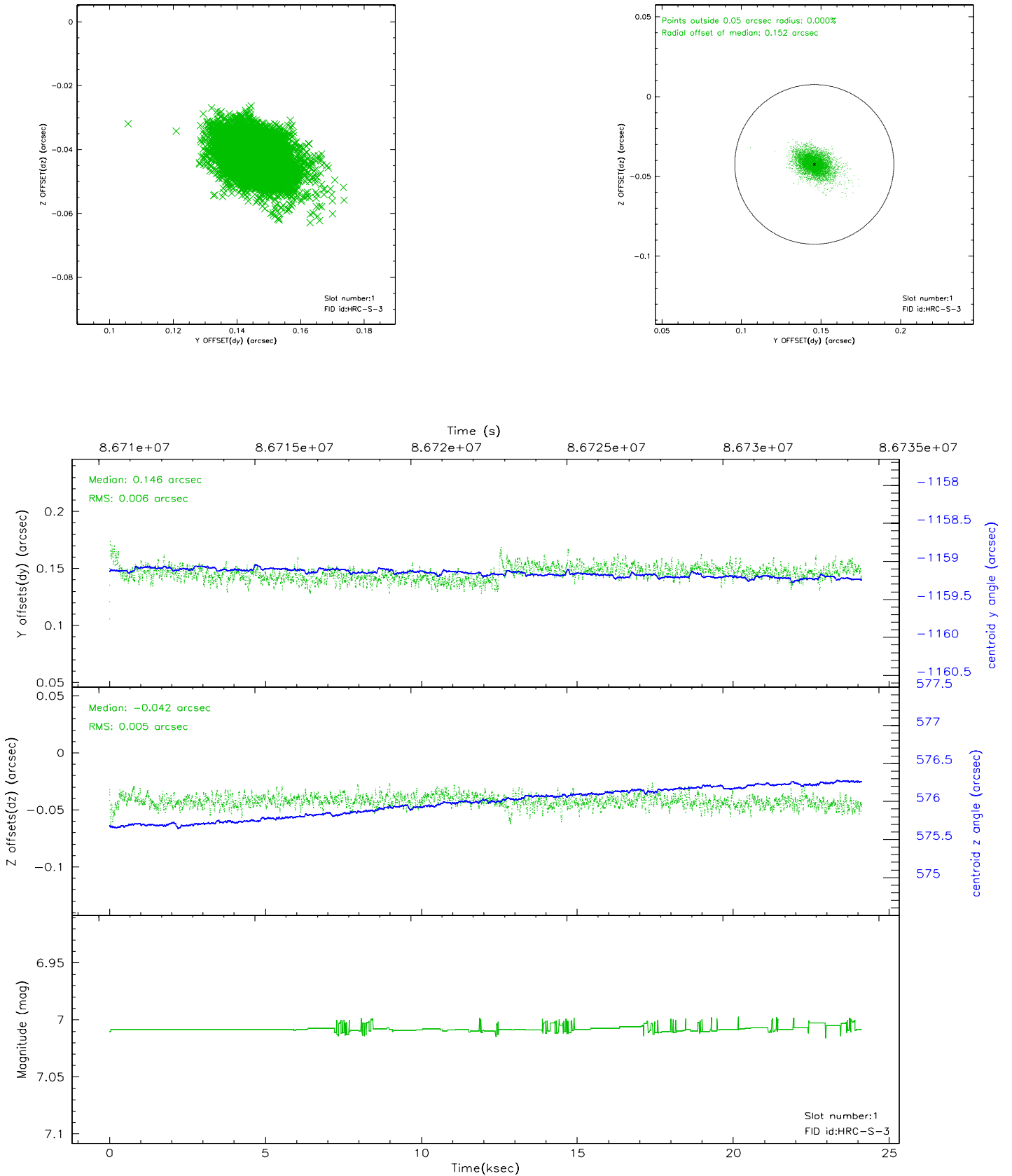


2.5 FID Slots

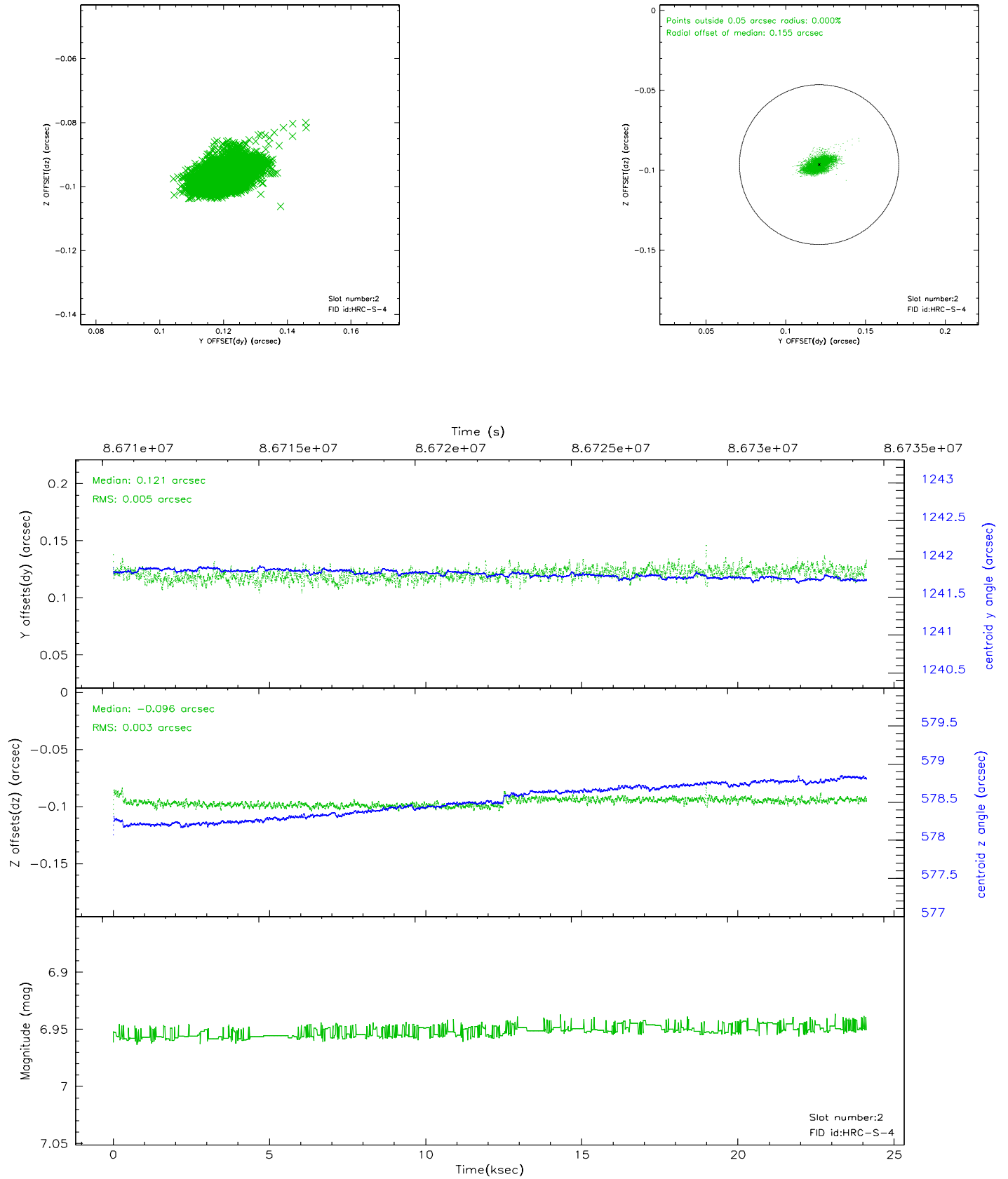
2.5.1 Slot 0



2.5.2 Slot 1

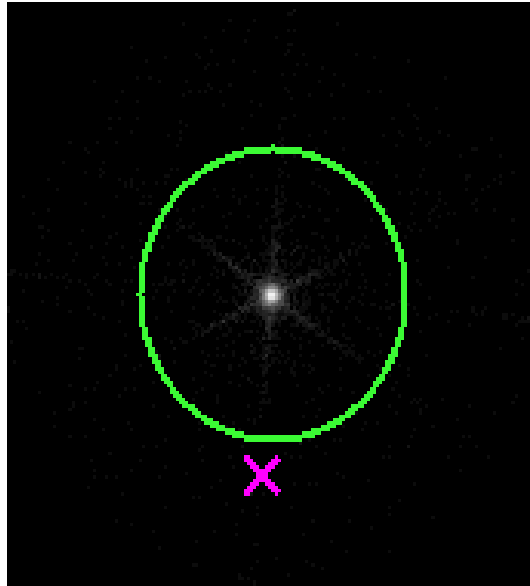


2.5.3 Slot 2



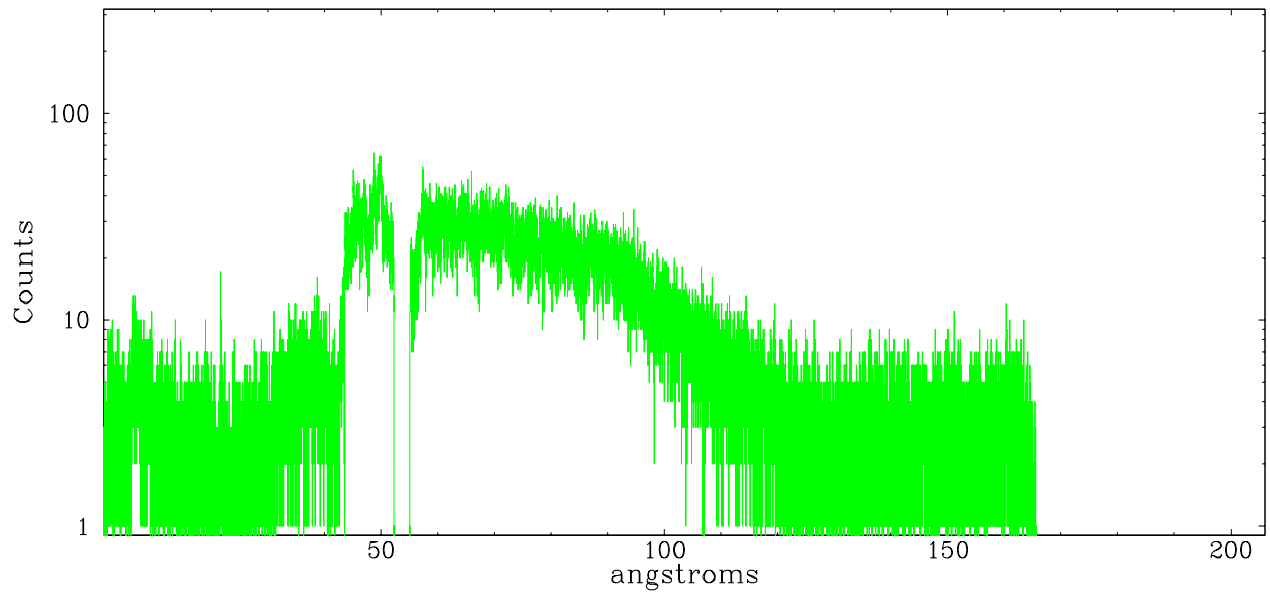
3 Gratings

3.1 LETG Arm

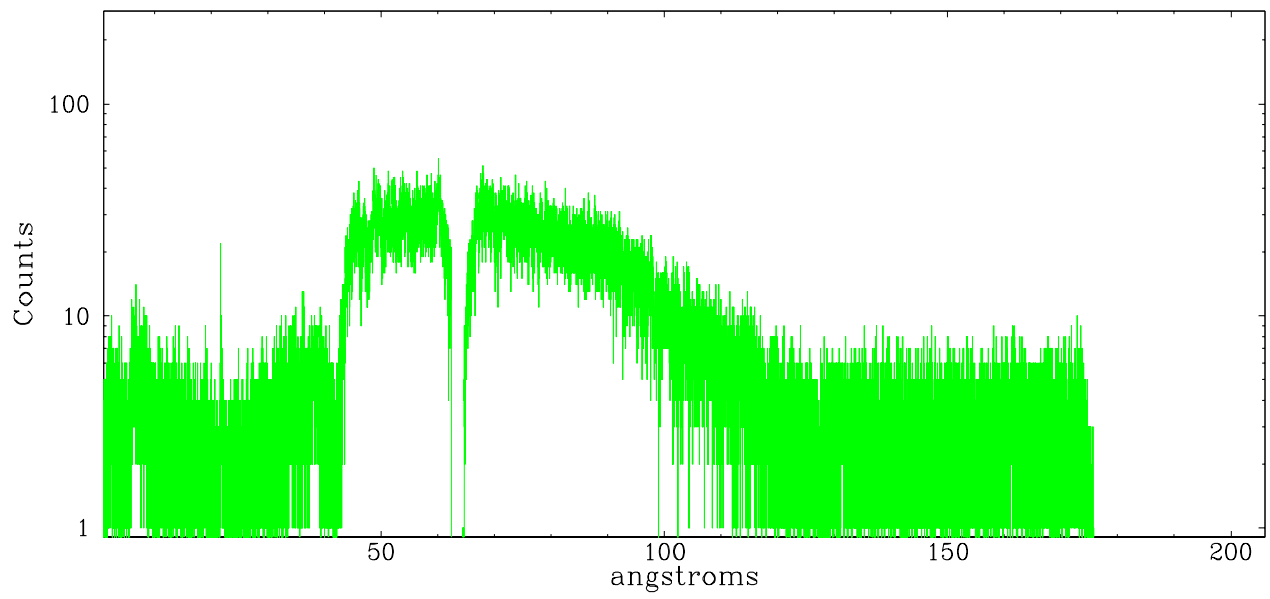


LETG Zero Order

leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.08.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.109

A.2 Comments

Zeroth order piled up. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates (x=32779.08; y=32916.92) into the *src1a.fits file table. These corrected coordinates were determined using a software tool developed by CXC called findzero, which is expected to be released in CIAO (currently in ISIS). The tool calculates the point of intersection of the readout streak and the leg arm. The zeroth order source position determined by the standard pipeline processing using the tool tgdetect was not used in this processing. The newly determined zeroth order coordinates have been placed in the *src1a.fits file, replacing the coordinates determined by tgdetect. Note that these corrected coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.=====

Optical monitoring of the target was performed during the observation in guide star slot 7.