

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5395 - L2 Version 3  
Chandra X-Ray Center

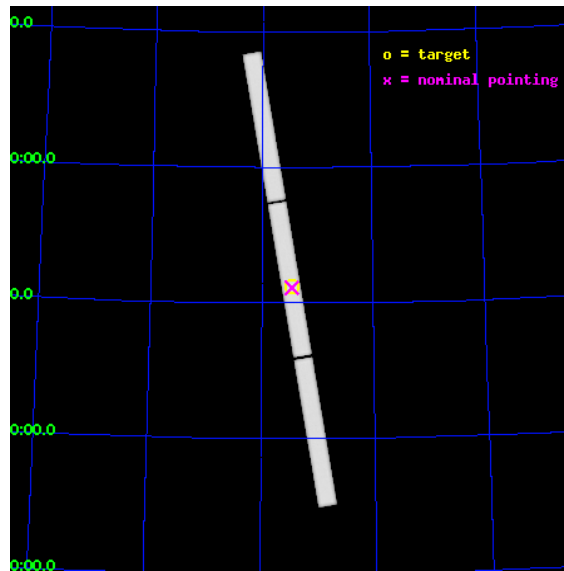
L2 Processing Date : Dec 31 2012

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# 1 Front

seq_num	200330	Sequence number
obs_id	5395	Observation id
title	The location and spatial structure of the X-ray emitting plasma in the magnetically confined environment of beta Cep	Proposal title
observer	Dr Coralie Neiner	Principal investigator
object	beta Cep	Source name
ra_targ	322.165	Observer's specified target RA [deg]
dec_targ	70.560717	Observer's specified target Dec [deg]
ra_nom	322.16234577442	Nominal RA [deg]
dec_nom	70.556078975284	Nominal Dec [deg]
roll_nom	260.26984301223	Nominal Roll [deg]
revision	3	Processing version of data
ontime	36432.729806215	[s]
liveltime	36163.187513699	Ontime multiplied by DTCOR
l2events	2187804	Number of level 2 events

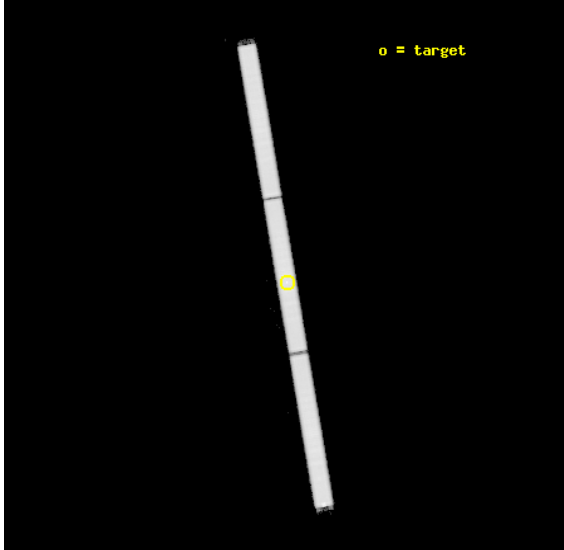


## 2 OBI

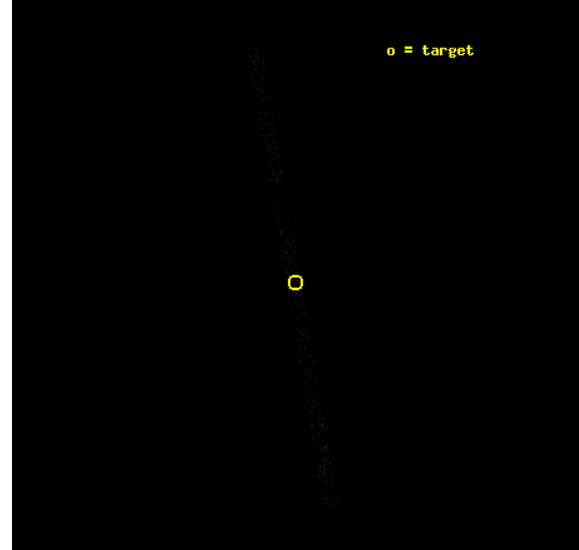
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	36245.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	36433.882929921	[s]
caldbver	4.5.5	&#160	l1events	3029217	Number of level 1 events
date	2012-12-30T23:58:01	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

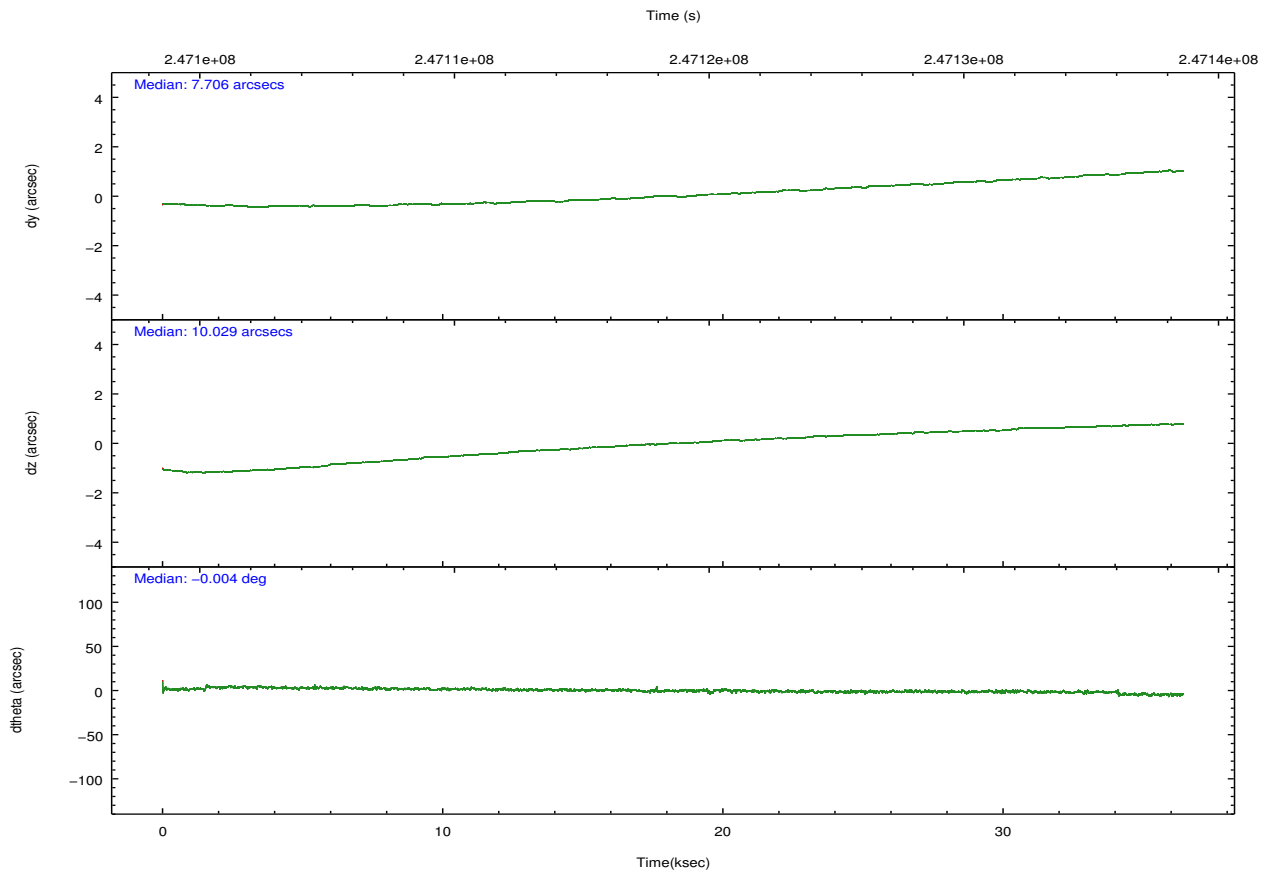
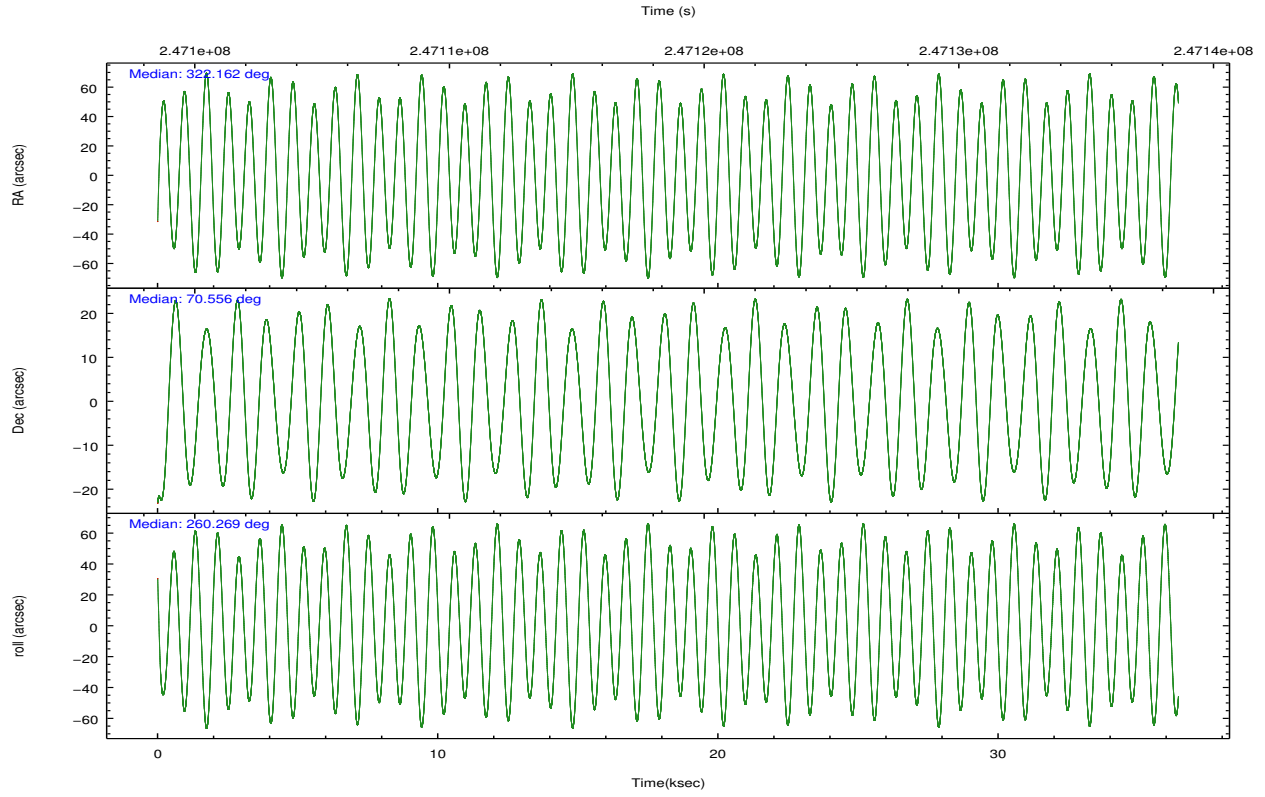
#### Level 1 Events

	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1011057	994233	1023927
rejected events	19470	19149	20285
rejected %	1%	1%	1%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	322.128446	322.1623457744246			
[deg] Pointing Dec	70.582433	70.55607897528387			
[deg] Pointing Roll	260.234471	260.2698430122276			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
Phase constraints	Y	Y			
[d] Phase period	12.000750	12.000750			
[d] Phase epoch (MJD)	53962.310000	53962.310000			
Phase start	0.966245	0.966245			
Phase end	0.033755	0.033755			
Phase start error	0.020000	0.020000			
Phase end error	0.020000	0.020000			
[s] Observation start time (MET)	247100563.184000	247099686.63067			
Observation start date	2005-10-30T23:01:39	2005-10-30T22:48:06			
[s] Observation end time (MET)	247136808.184000	247137513.23241			
Observation end date	2005-10-31T09:05:44	2005-10-31T09:18:33			

## 2.3 Aspect

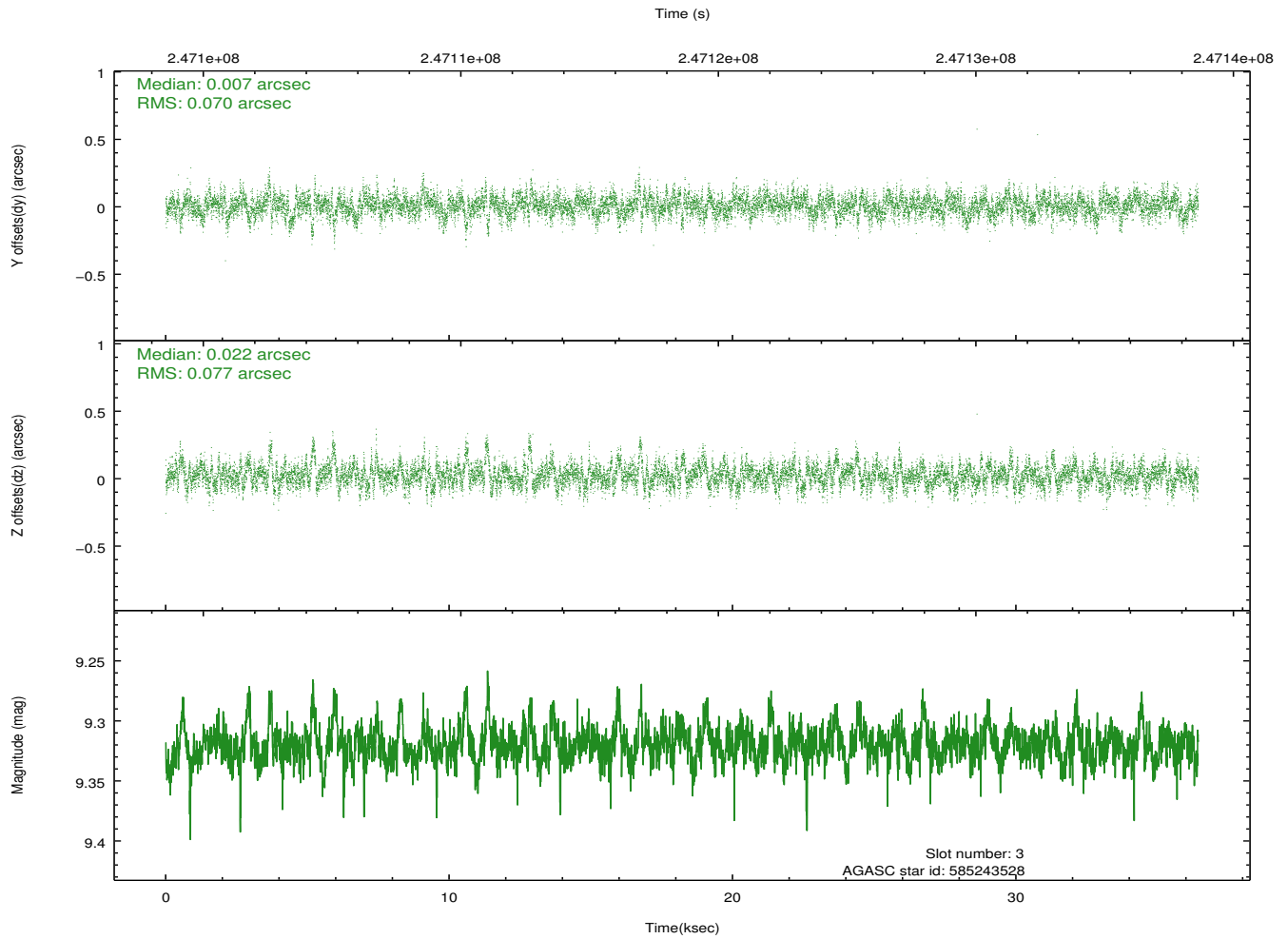
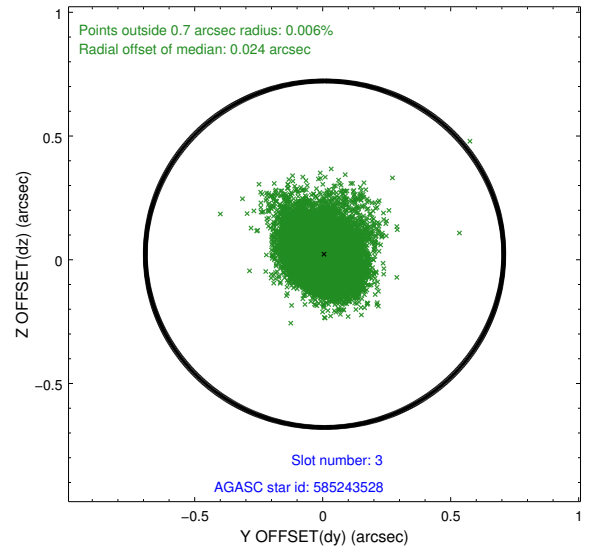
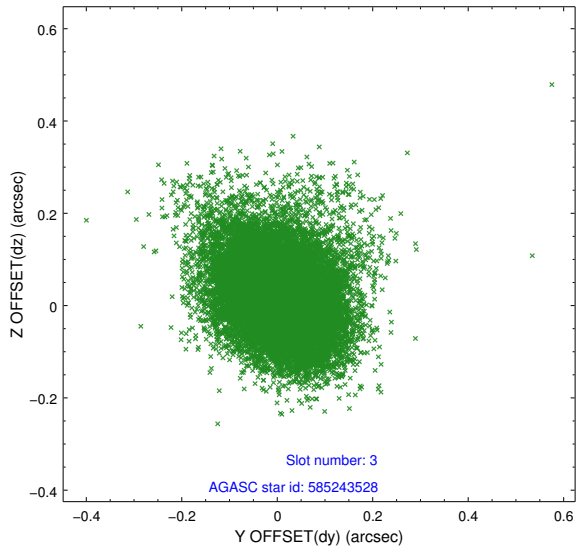


### Slot Statistics

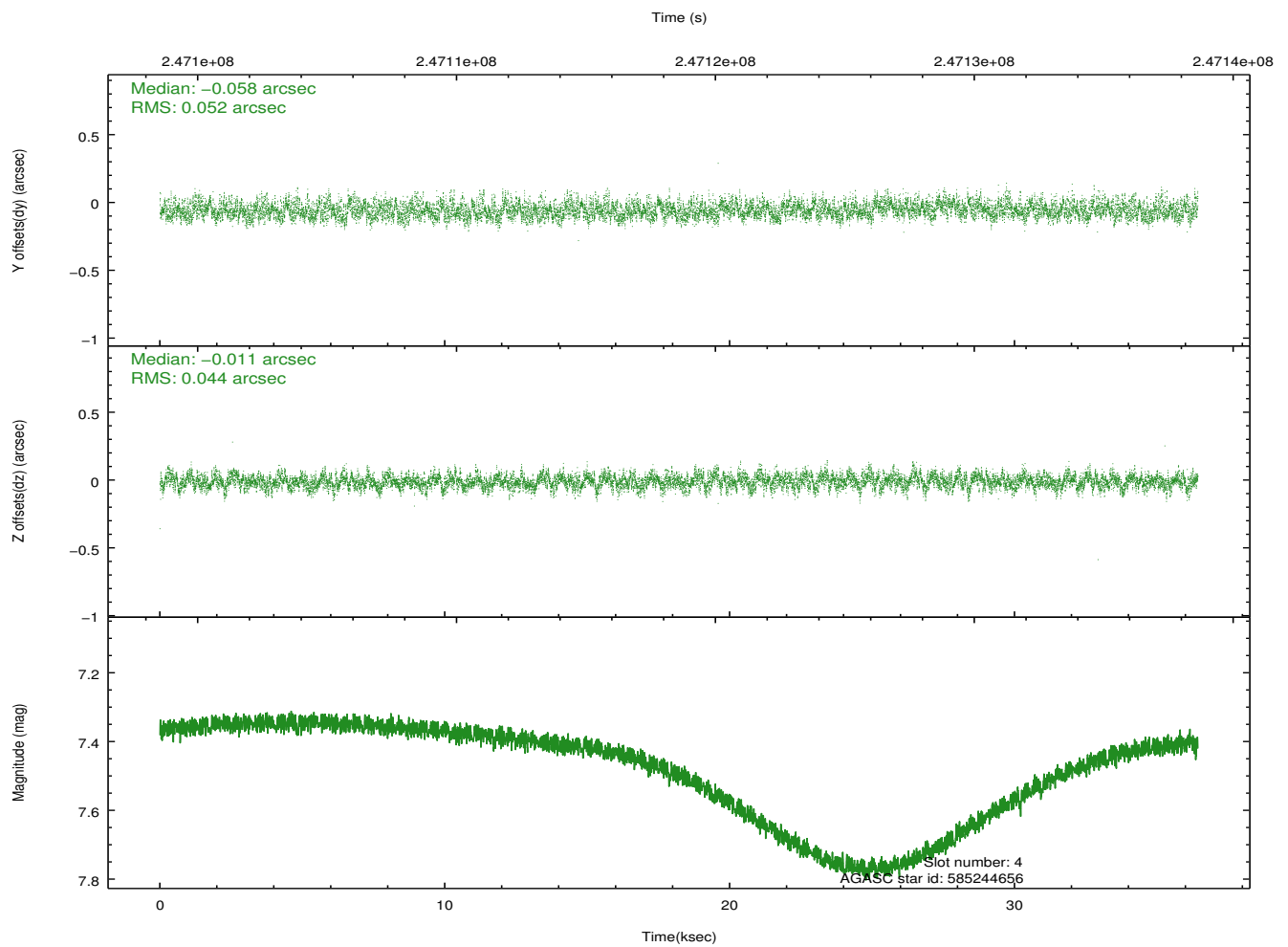
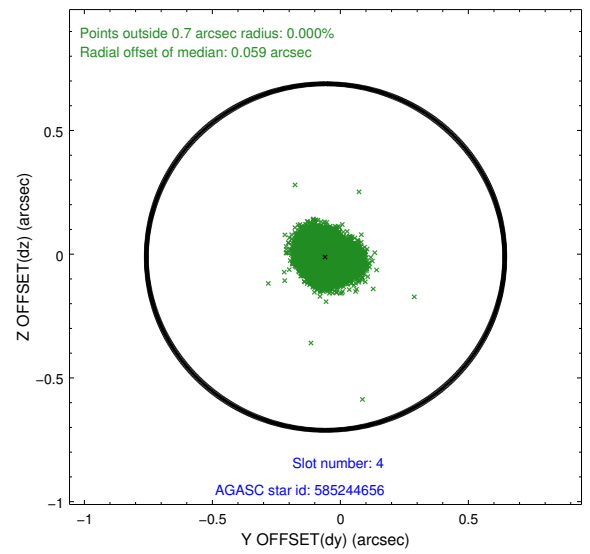
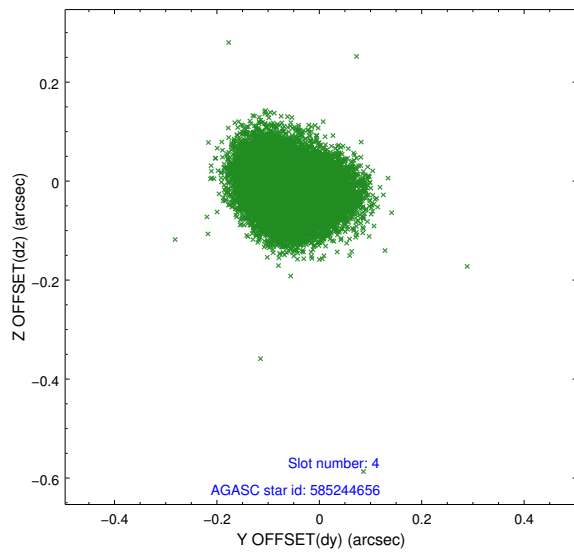
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.05	8887	0.078	-0.134	0.013	0.030	0.000000	0.000000	-1162.02	-458.60
1	FID	HRC-S-2	7.04	8887	0.114	-0.107	0.033	0.062	0.000000	0.000000	1237.55	-451.24
2	FID	HRC-S-4	7.02	8887	0.210	-0.061	0.028	0.057	0.000000	0.000000	1236.49	573.53
3	GUIDE	585243528	9.32	17763	0.007	0.022	0.107	0.186	323.001841	70.190189	1203.84	1288.59
4	GUIDE	585244656	7.43	17767	-0.058	-0.011	0.074	0.115	322.746463	70.823219	-981.78	572.63
5	GUIDE	585245544	7.36	17774	-0.024	-0.060	0.069	0.116	321.319997	70.477535	530.55	-895.32
6	GUIDE	585249712	9.18	17755	0.102	0.027	0.098	0.162	322.943679	70.596904	-222.84	950.70
7	GUIDE	585244168	9.02	17759	-0.029	0.021	0.079	0.129	323.050612	69.955180	2023.91	1503.15

## 2.4 Star Slots

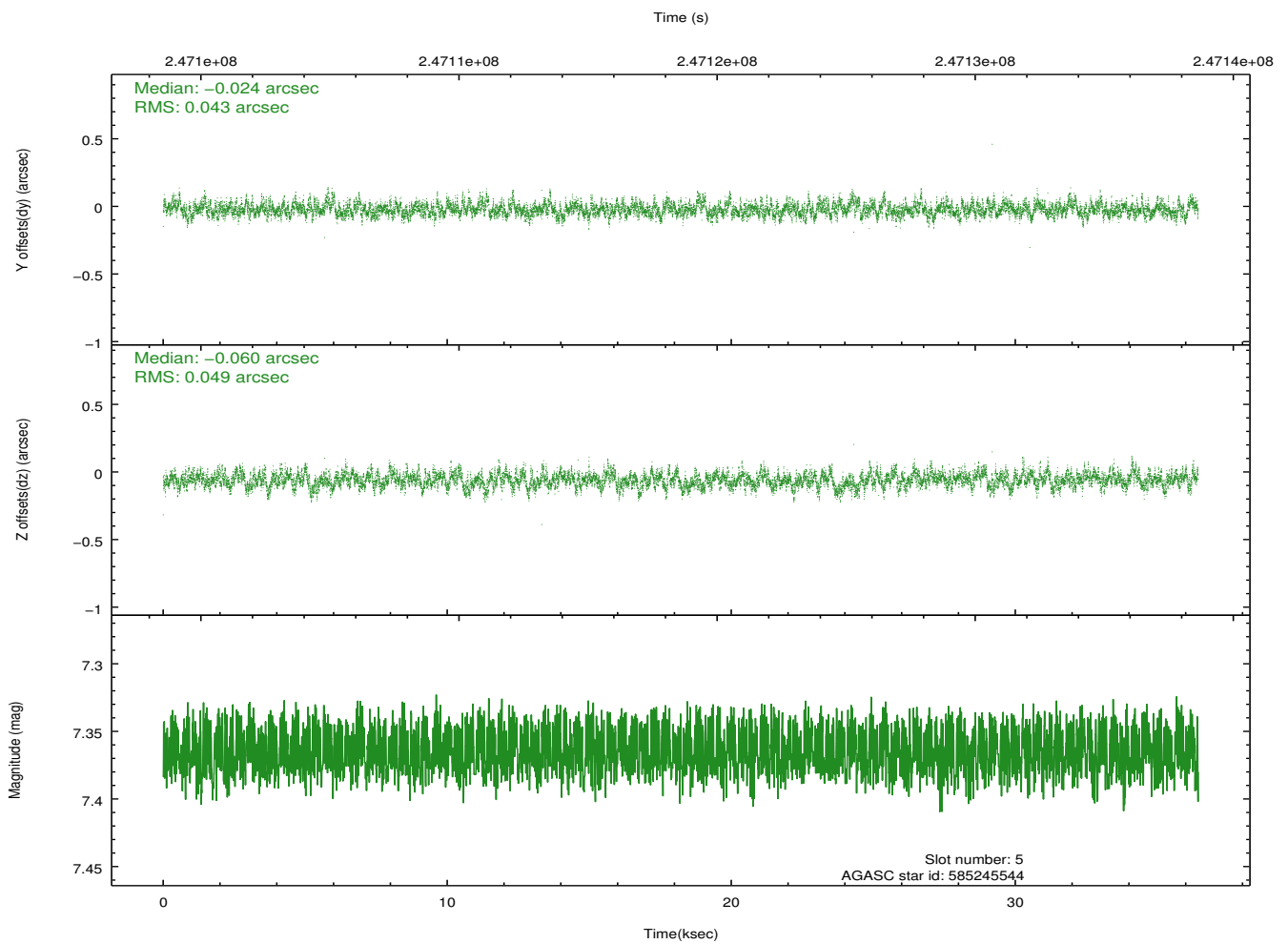
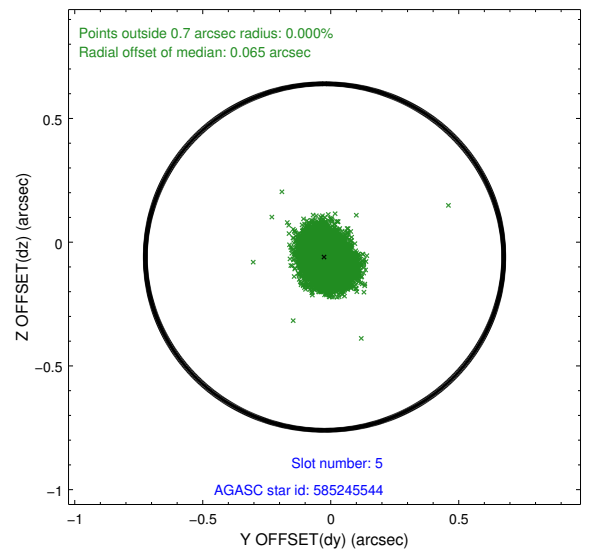
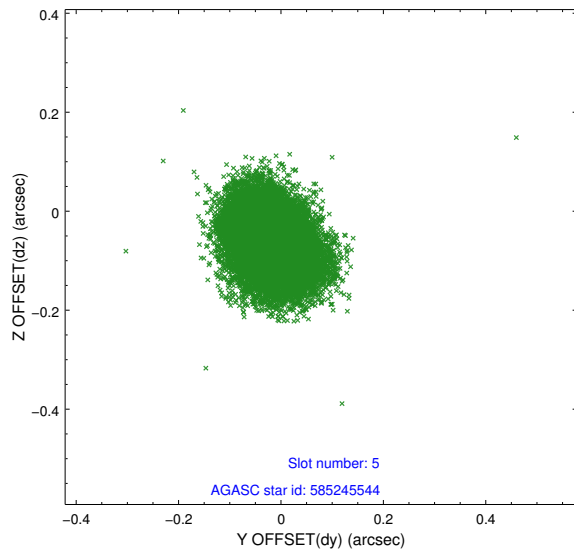
### 2.4.1 Slot 3



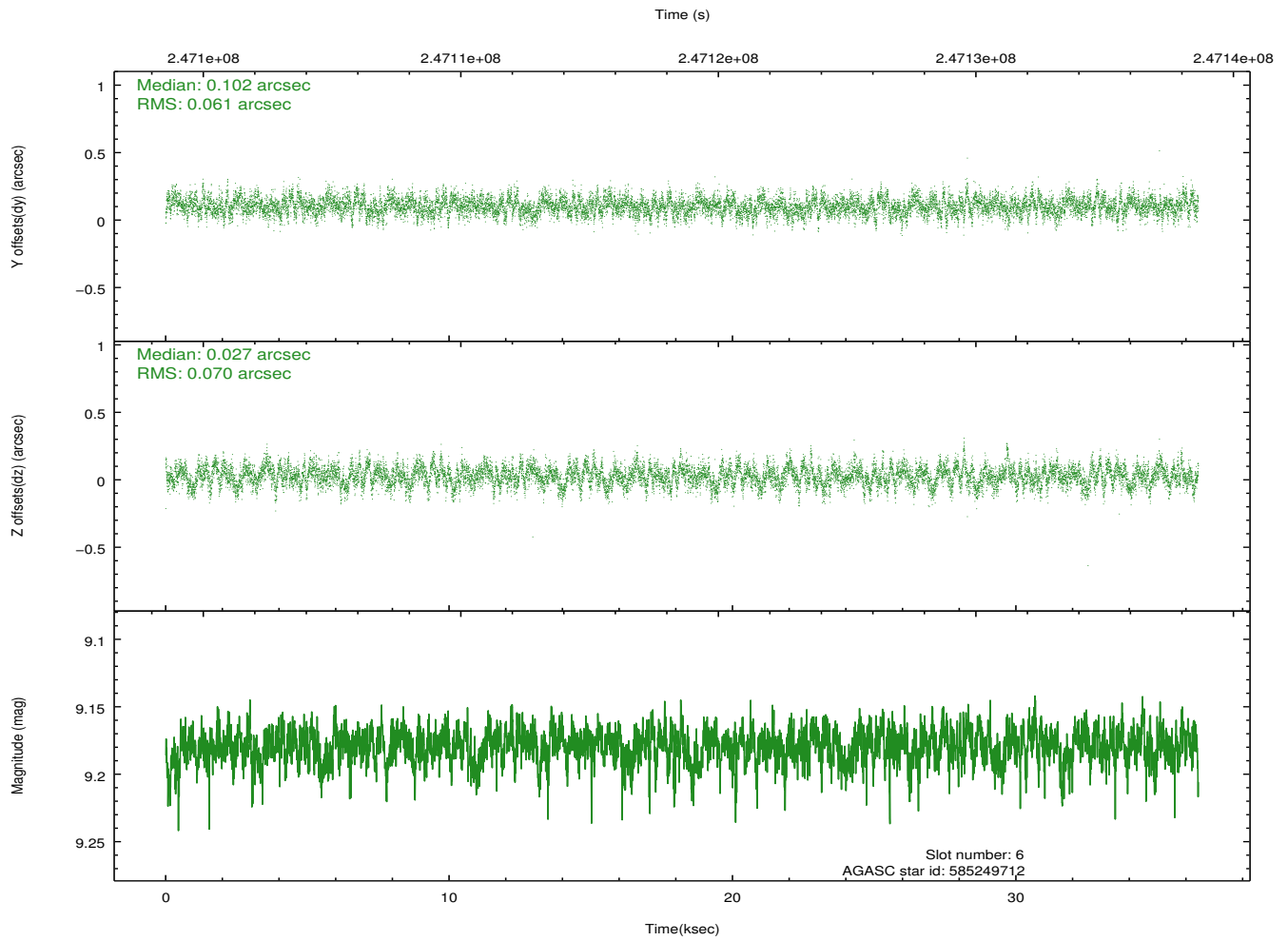
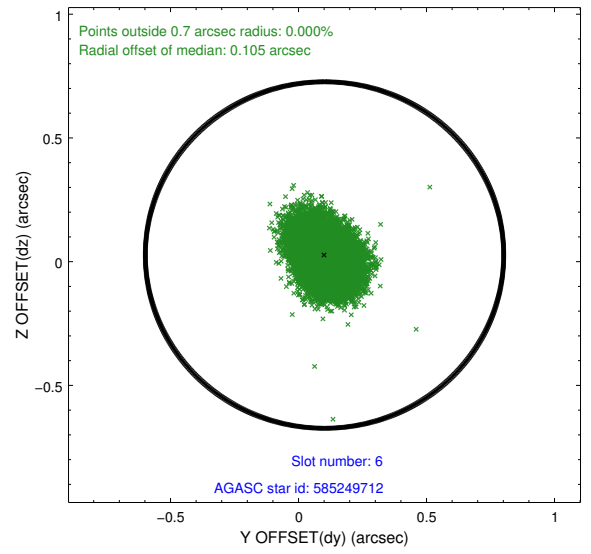
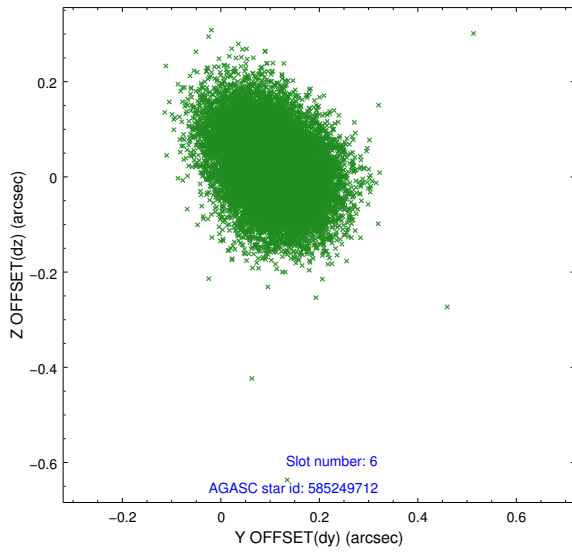
## 2.4.2 Slot 4



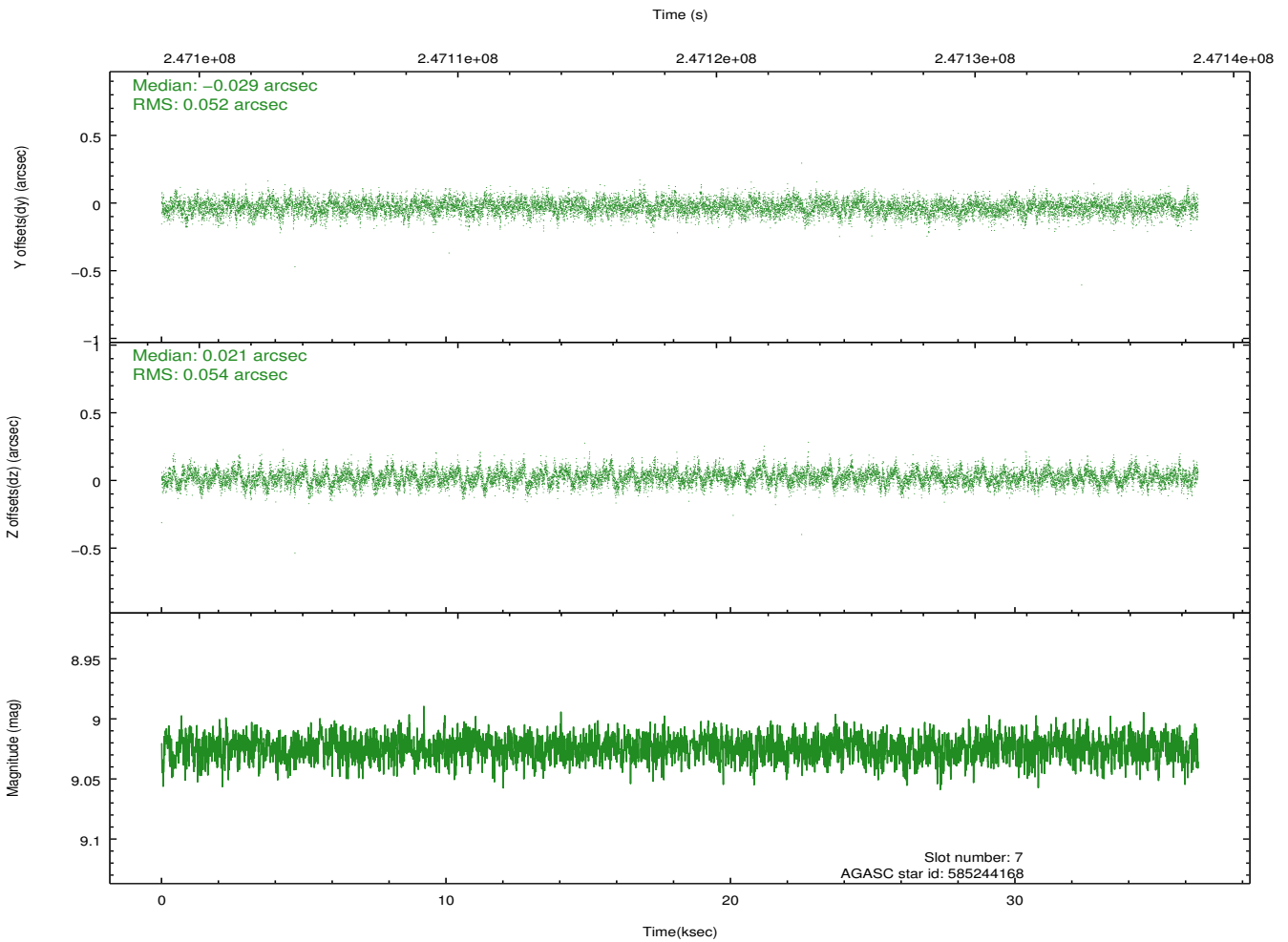
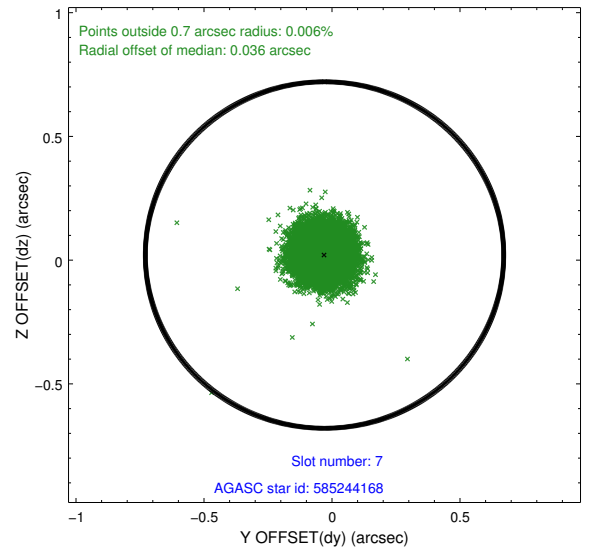
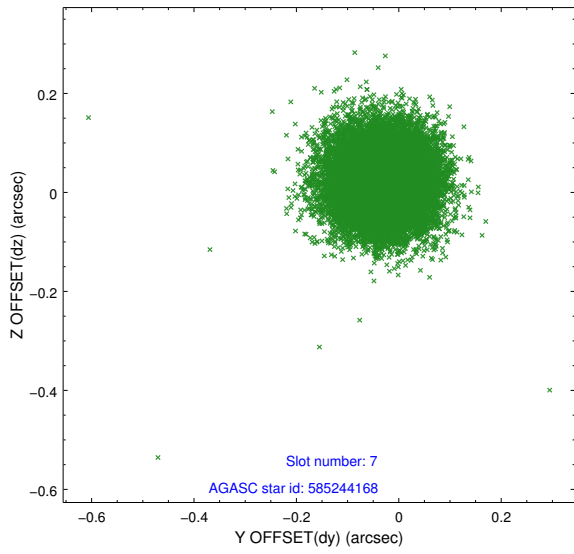
### 2.4.3 Slot 5



### 2.4.4 Slot 6

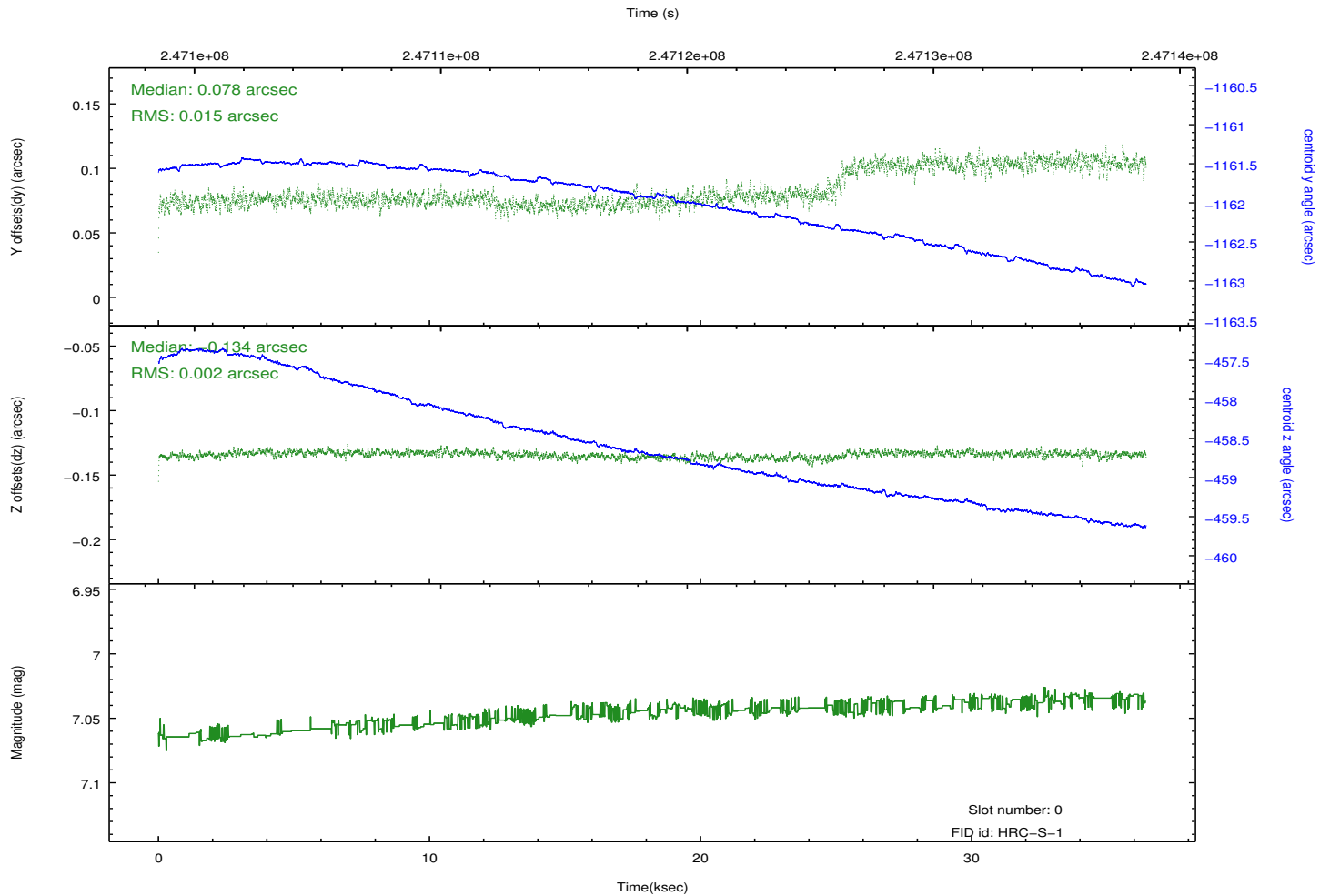
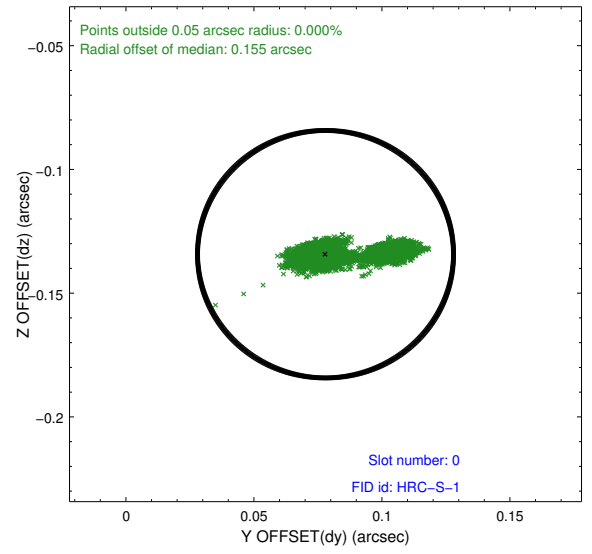
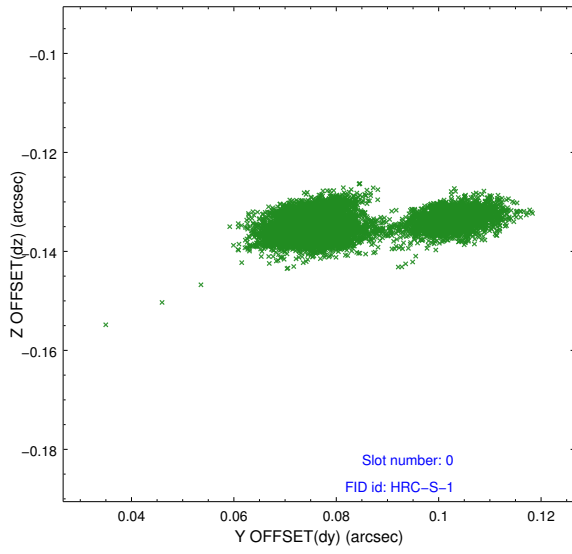


### 2.4.5 Slot 7

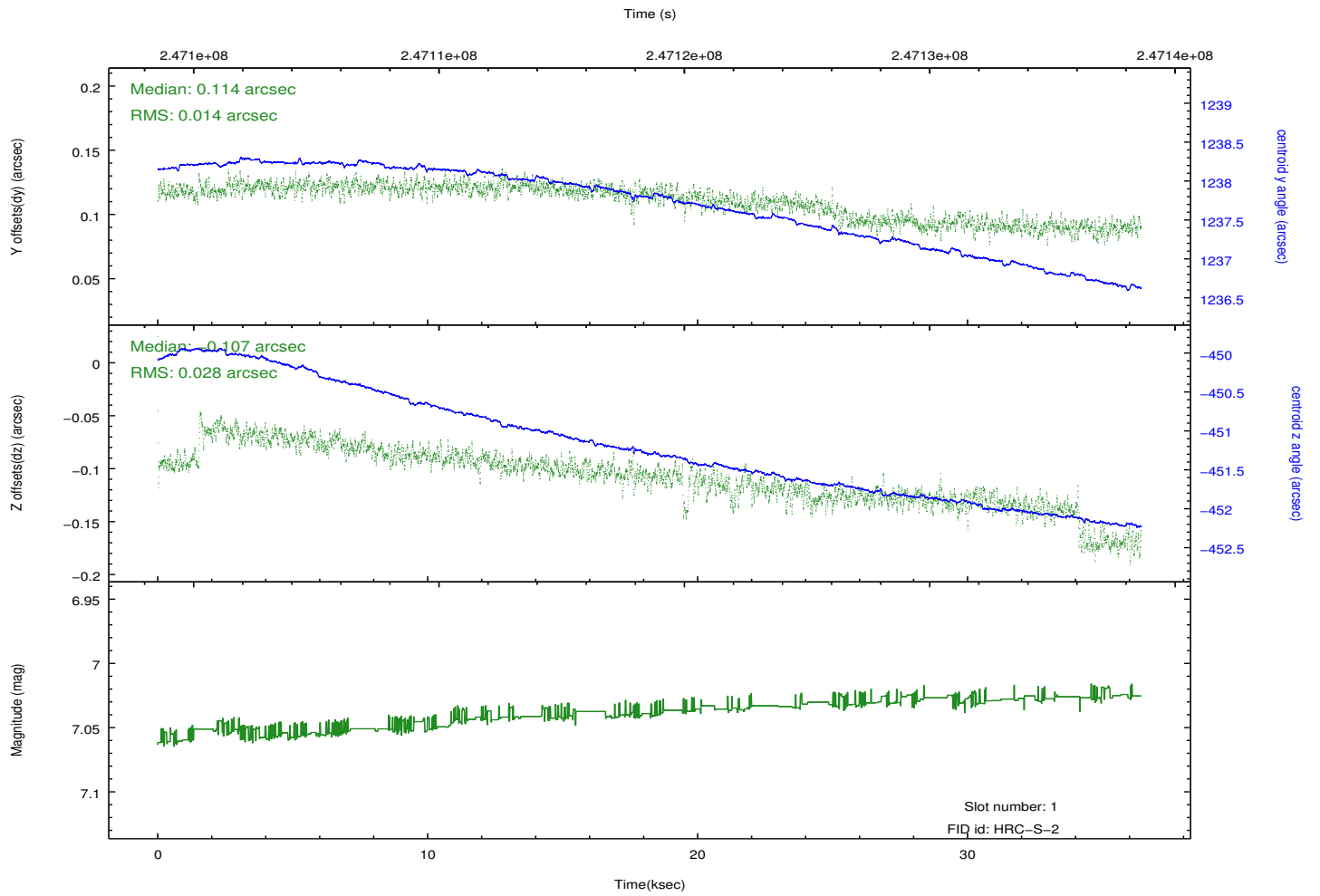
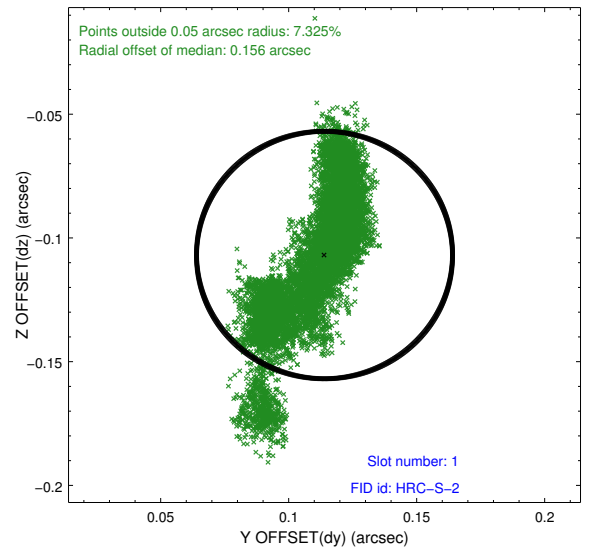
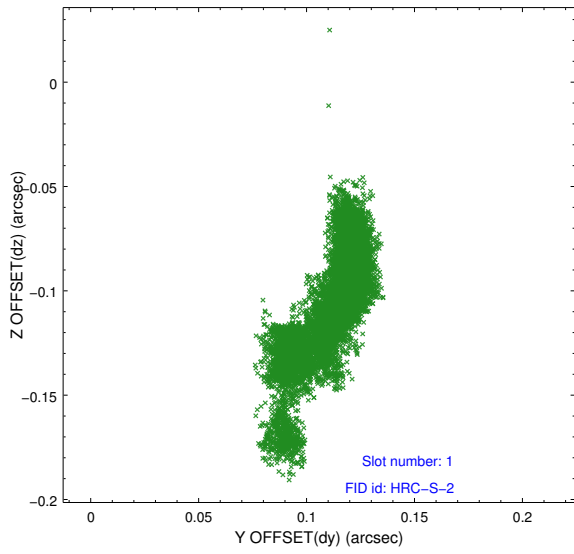


## 2.5 FID Slots

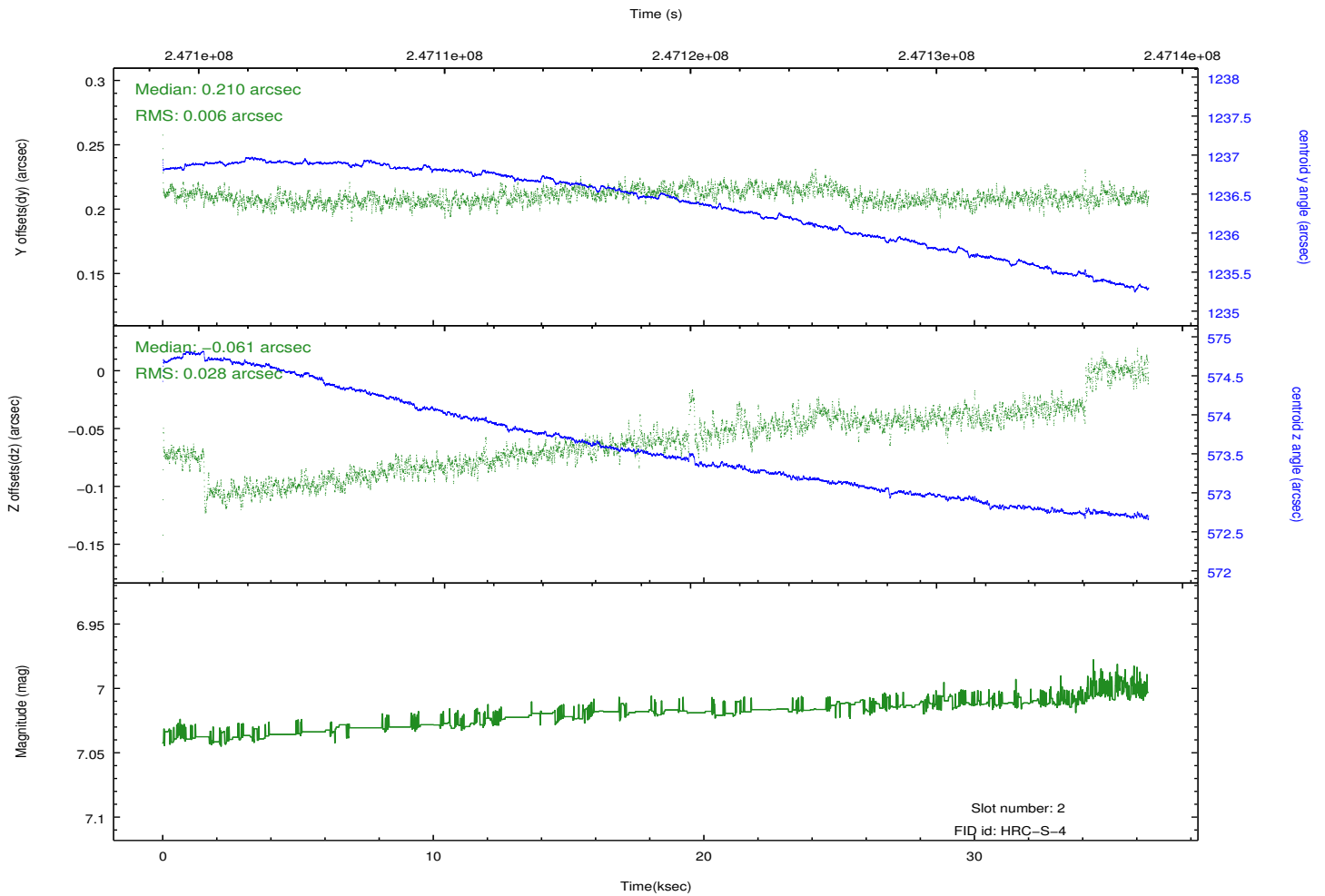
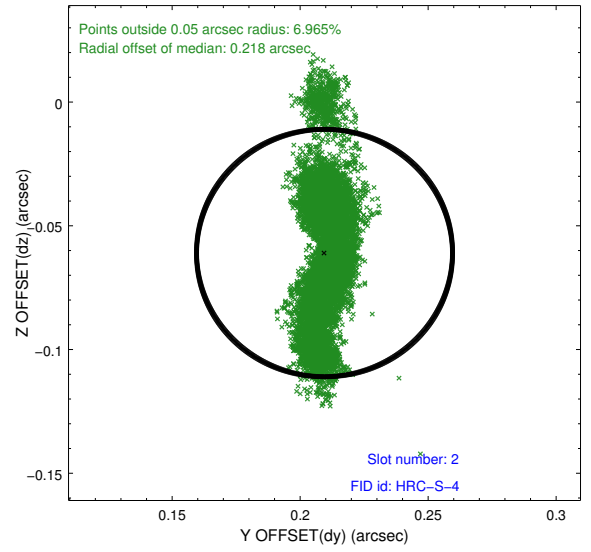
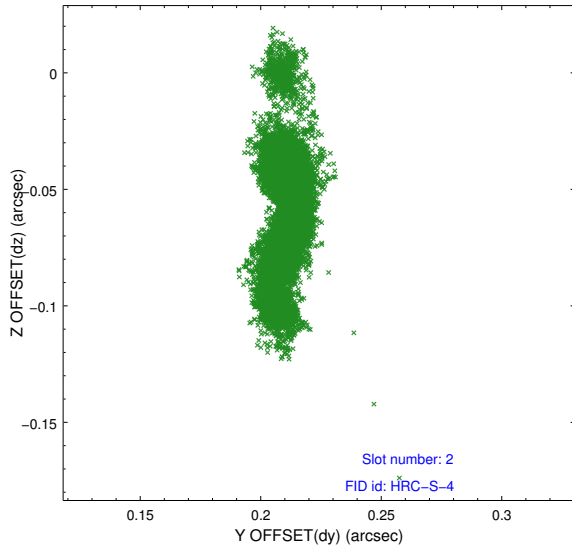
### 2.5.1 Slot 0



## 2.5.2 Slot 1

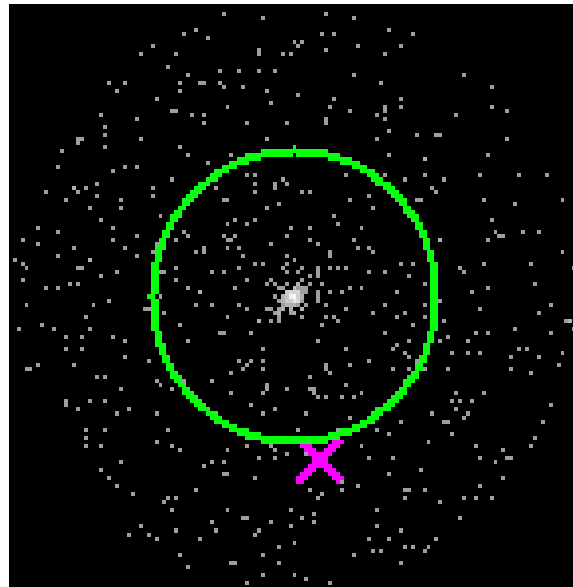


### 2.5.3 Slot 2

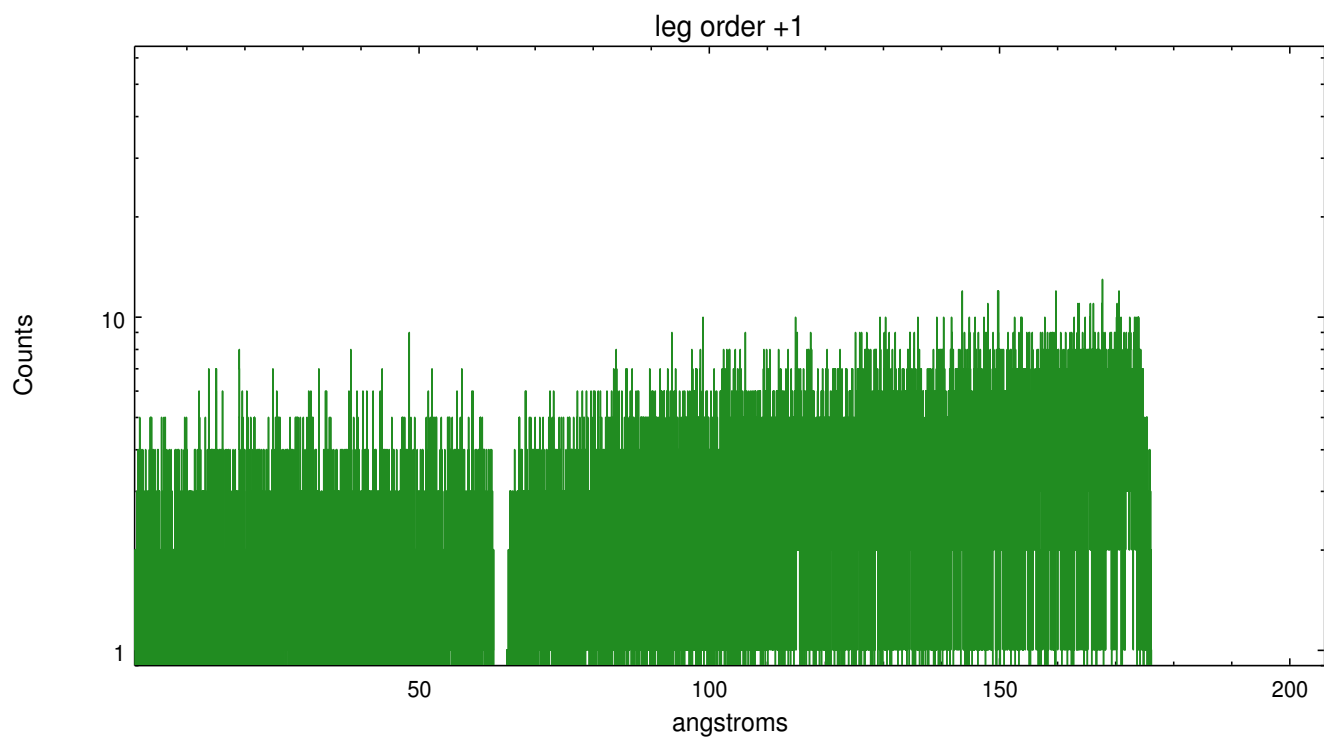
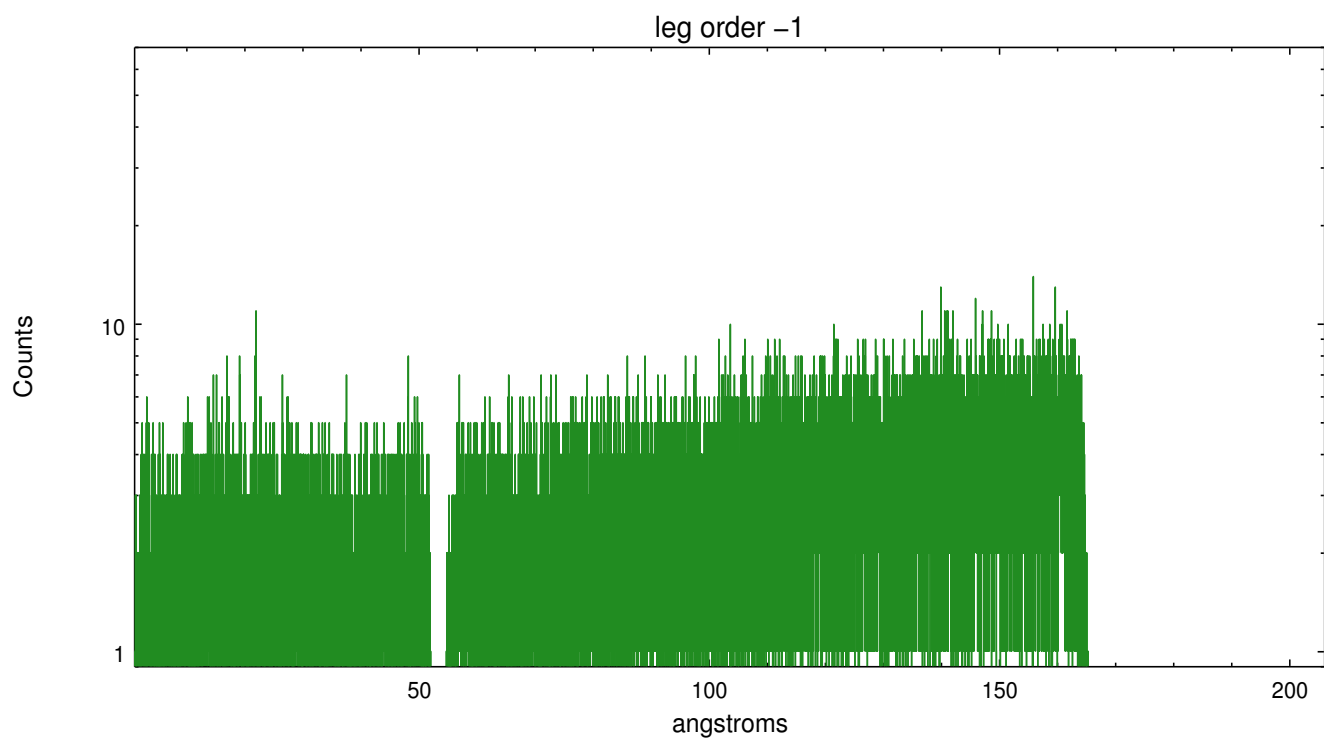


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.4326

## A.2 Comments