

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6473 - L2 Version 3  
Chandra X-Ray Center

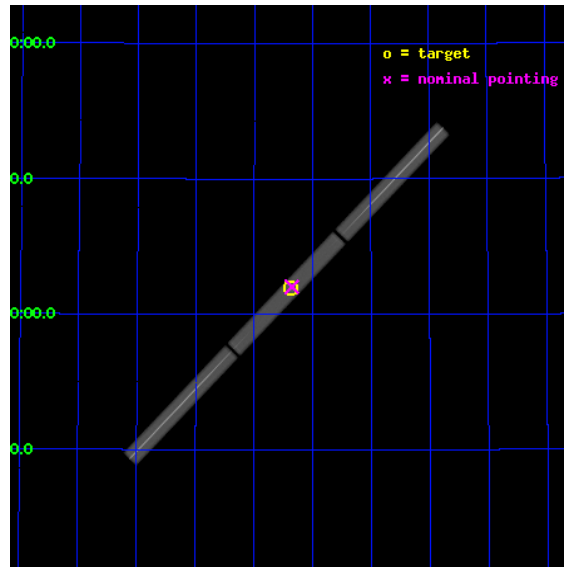
L2 Processing Date : Aug 11 2012

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# 1 Front

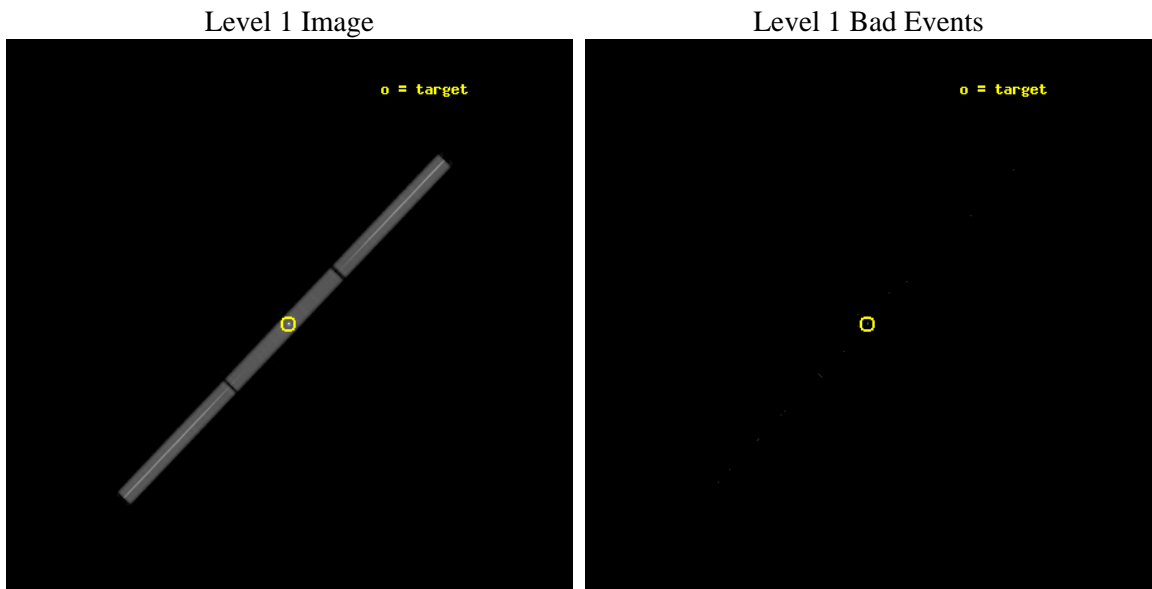
seq_num	290566	Sequence number
obs_id	6473	Observation id
title	AO7 Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.092083	Observer's specified target RA [deg]
dec_targ	29.099	Observer's specified target Dec [deg]
ra_nom	199.08856506354	Nominal RA [deg]
dec_nom	29.102446083671	Nominal Dec [deg]
roll_nom	133.73627329208	Nominal Roll [deg]
revision	3	Processing version of data
ontime	20181.482188463	[s]
livetime	19955.456074139	Ontime multiplied by DTCOR
l2events	2164936	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



## 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20181.482188463	[s]
caldbver	4.5.1.1	&#160	l1events	2694183	Number of level 1 events
date	2012-08-11T02:23:37	Date and time of file creation			
revision	3	Processing version of data			

## 2.1.3 Events

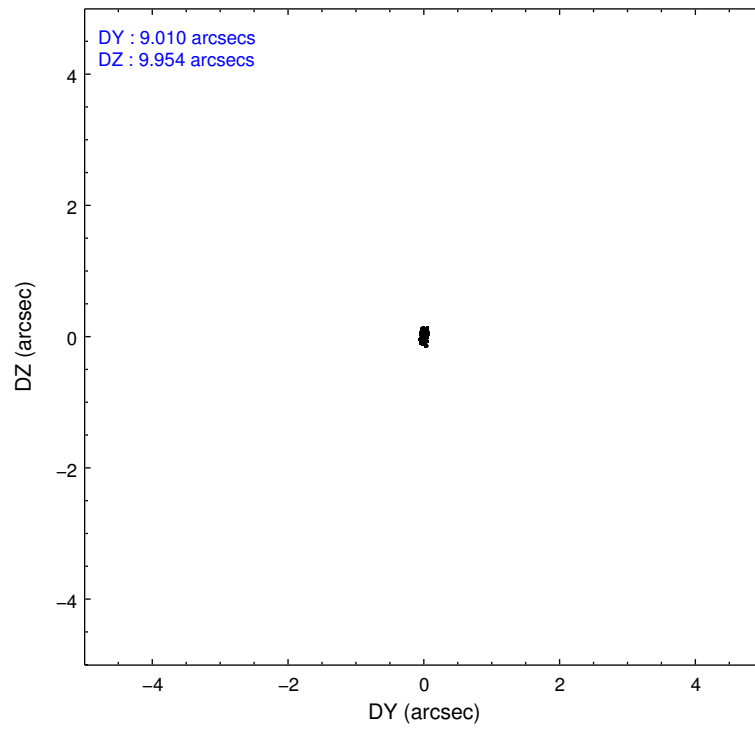
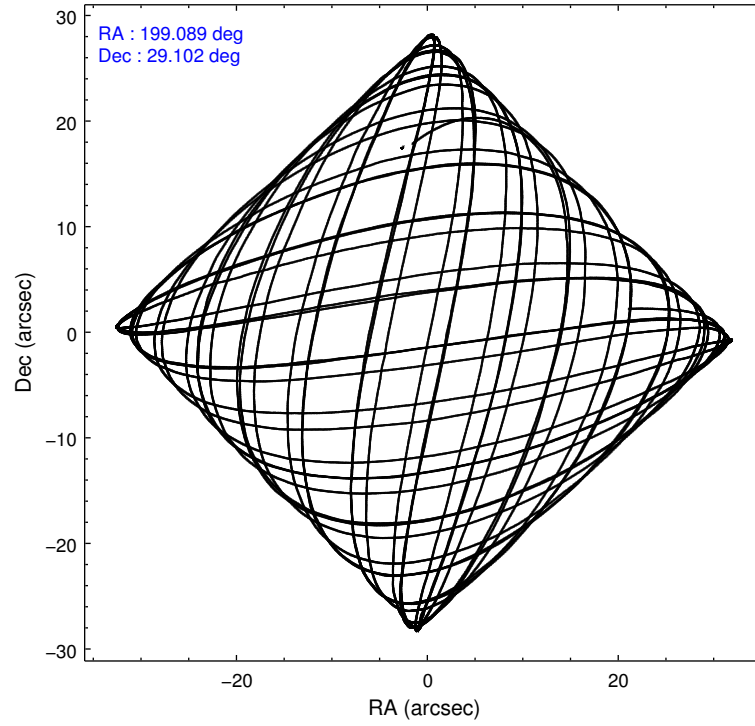
### Level 1 Events

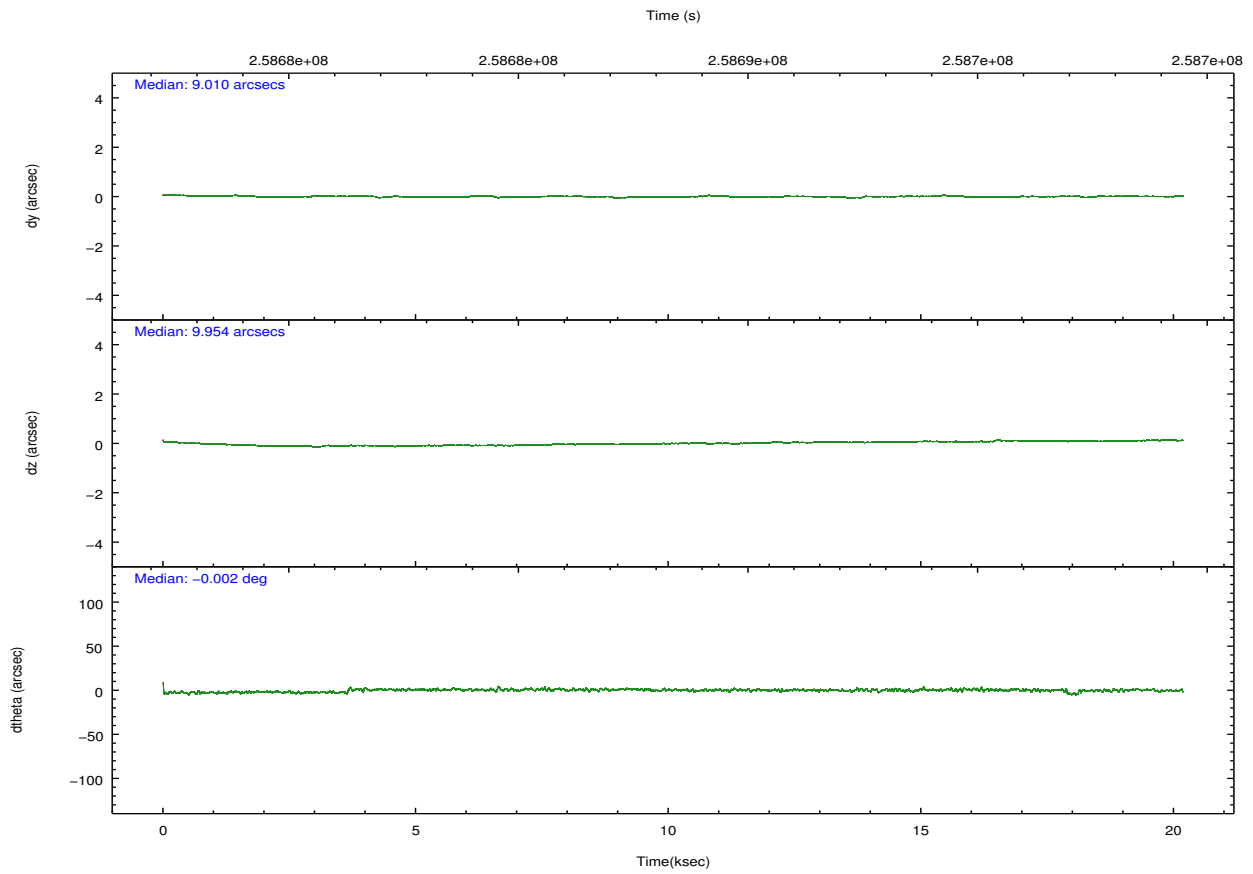
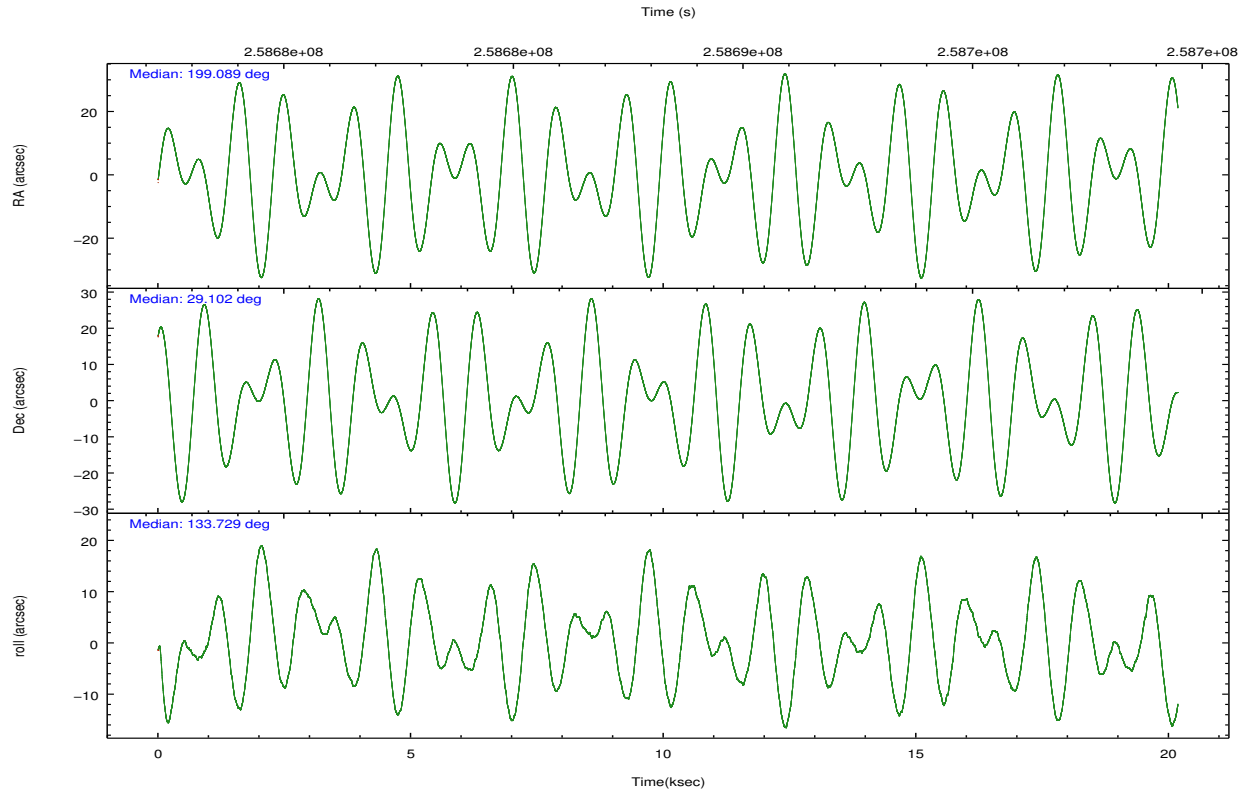
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	930462	820755	942966
rejected events	10221	13708	10823
rejected %	1%	1%	1%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format		
Detector	HRC-S	HRC-S	version number	7	7
Grating	LETG	LETG	Obspar file type	PREDICTED	ACTUAL
Data mode	OBSERVING	OBSERVING	Obspar update status	NONE	UPDATED
Observation mode	POINTING	POINTING			
[deg] Pointing RA	199.120331	199.0885650635442			
[deg] Pointing Dec	29.095836	29.10244608367121			
[deg] Pointing Roll	133.653492	133.7362732920839			
[s] Window start time (MET)	256348865.184000	256348865.184000			
[s] Window stop time (MET)	261446465.184000	261446465.184000			
[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			
[s] Observation start time (MET)	258678461.184000	258677747.3795			
Observation start date	2006-03-13T23:06:36	2006-03-13T22:55:47			
[s] Observation end time (MET)	258698461.184000	258699240.093			
Observation end date	2006-03-14T04:39:56	2006-03-14T04:54:00			

## 2.3 Aspect



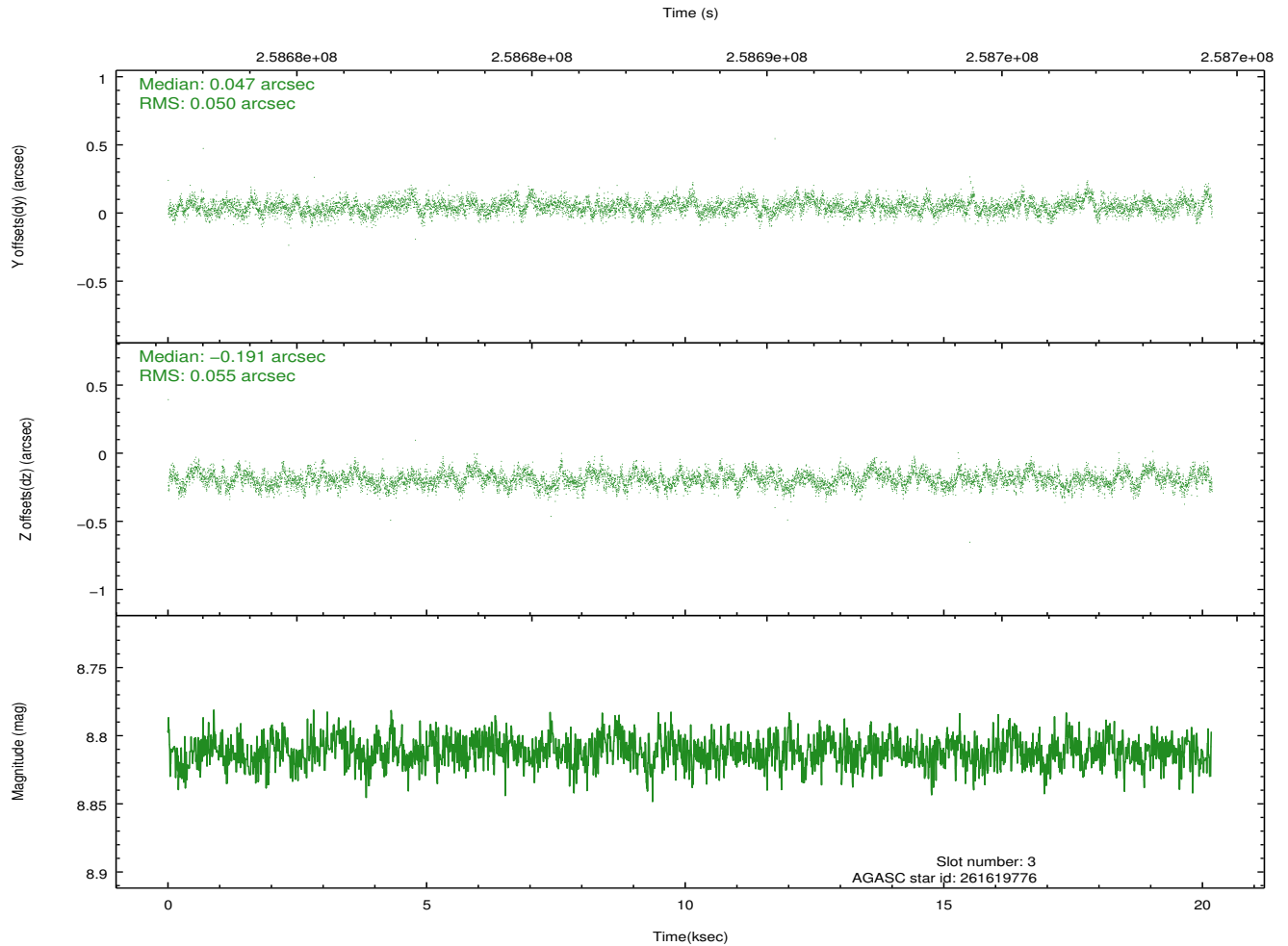
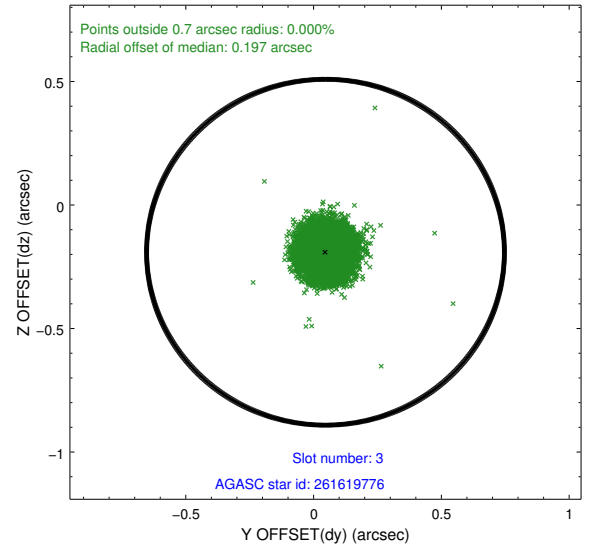
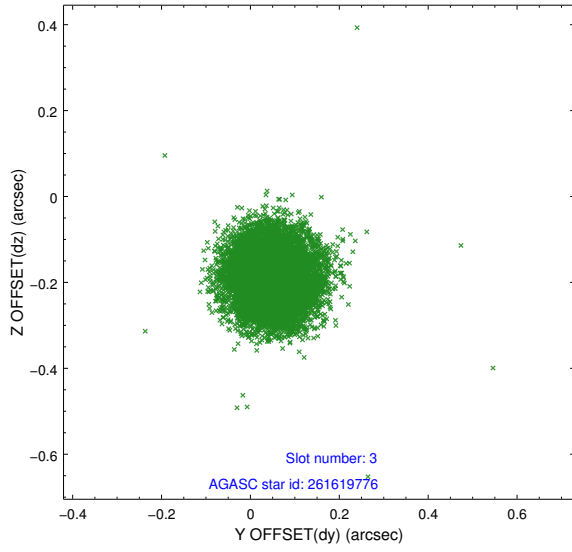


### Slot Statistics

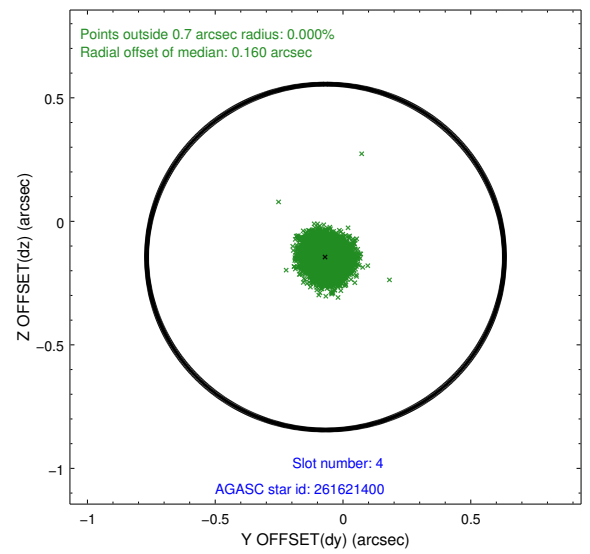
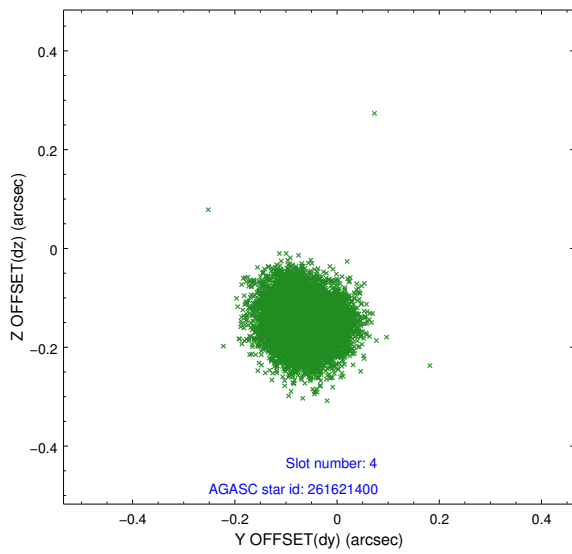
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	4923	0.114	-0.216	0.008	0.013	0.000000	0.000000	-1163.24	-458.67
1	FID	HRC-S-3	7.03	4923	0.056	0.012	0.009	0.015	0.000000	0.000000	-1166.23	570.99
2	FID	HRC-S-4	7.00	4923	0.219	-0.093	0.007	0.017	0.000000	0.000000	1234.91	573.60
3	GUIDE	261619776	8.81	9840	0.047	-0.191	0.079	0.126	198.654383	29.401174	1806.28	296.72
4	GUIDE	261621400	6.97	9846	-0.068	-0.145	0.063	0.101	198.901600	28.741982	-444.01	1378.60
5	GUIDE	261626376	9.69	9825	0.109	0.051	0.159	0.260	198.947288	29.347445	1031.26	-232.05
6	GUIDE	261629720	8.11	9843	0.069	0.161	0.069	0.110	199.236176	29.044452	-384.71	-135.95
7	GUIDE	261623040	9.14	9831	-0.151	0.129	0.116	0.197	198.792686	29.757643	2432.13	-904.18

## 2.4 Star Slots

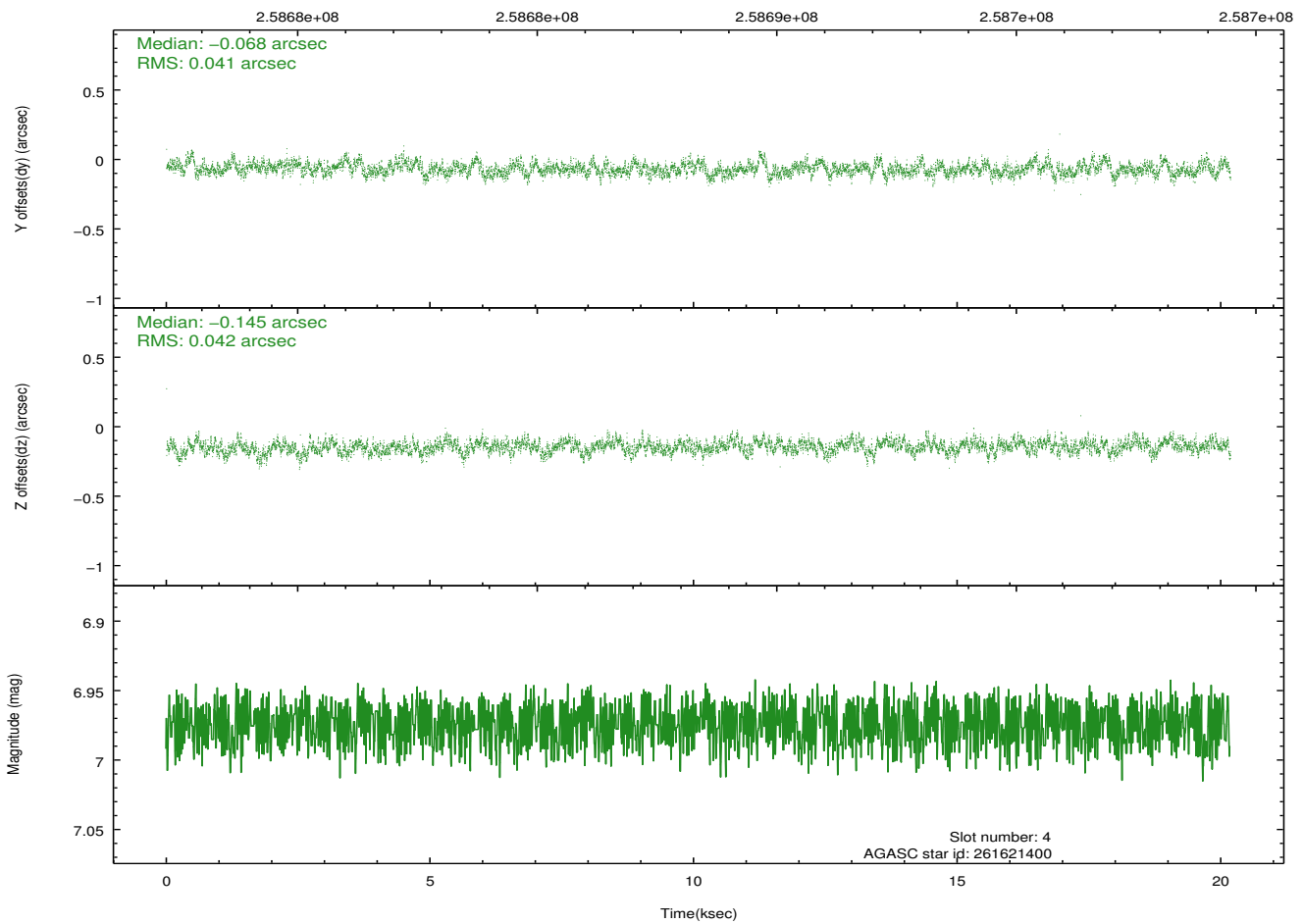
### 2.4.1 Slot 3



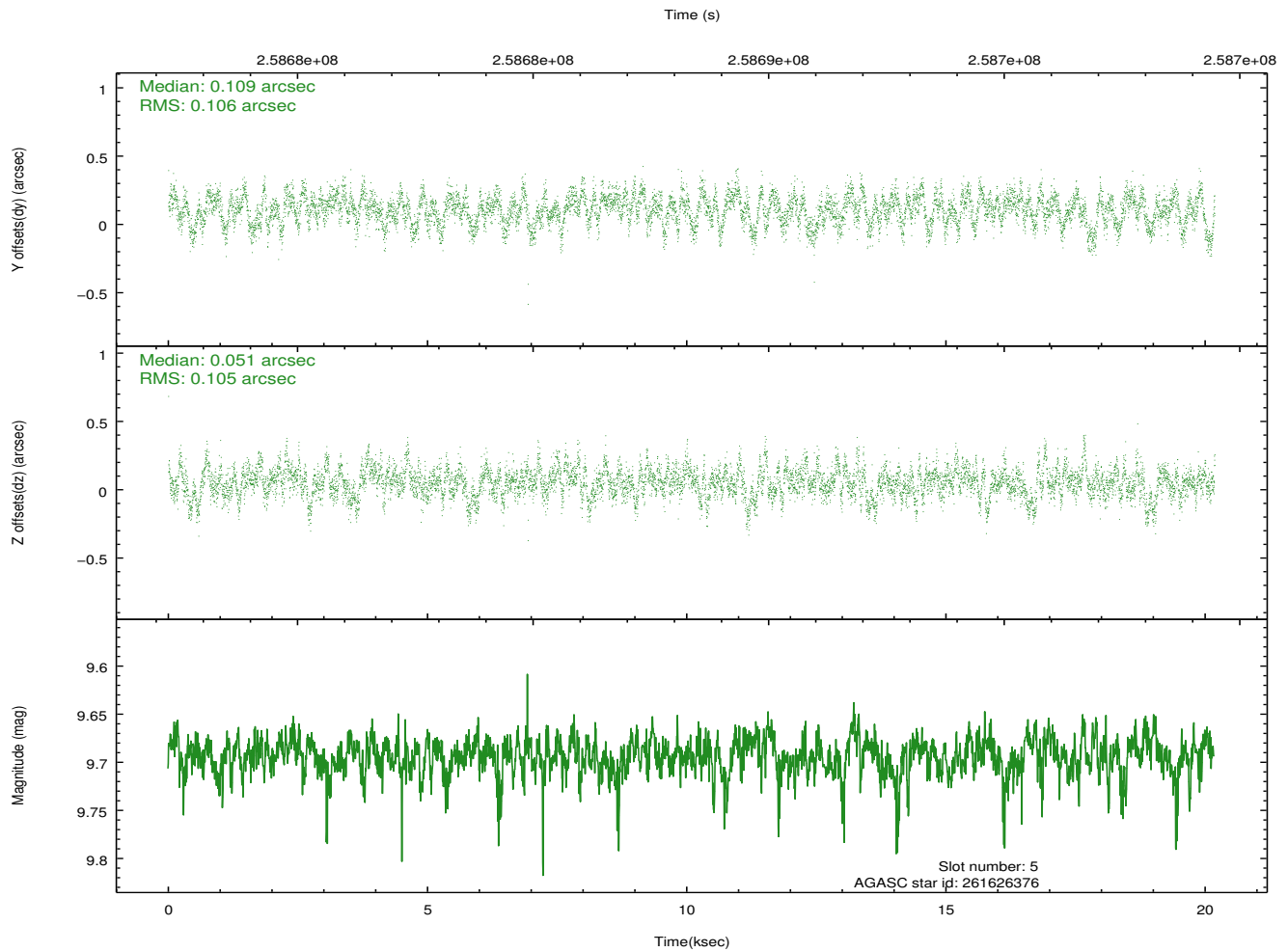
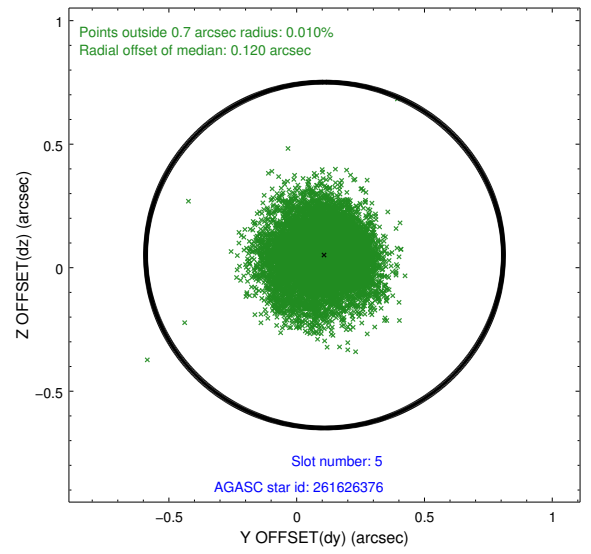
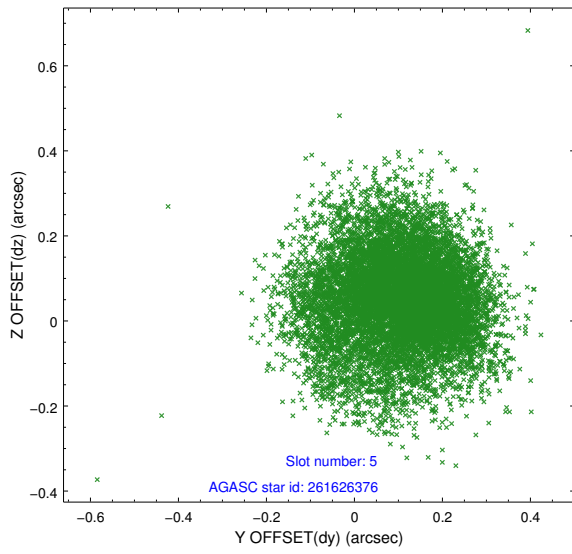
## 2.4.2 Slot 4



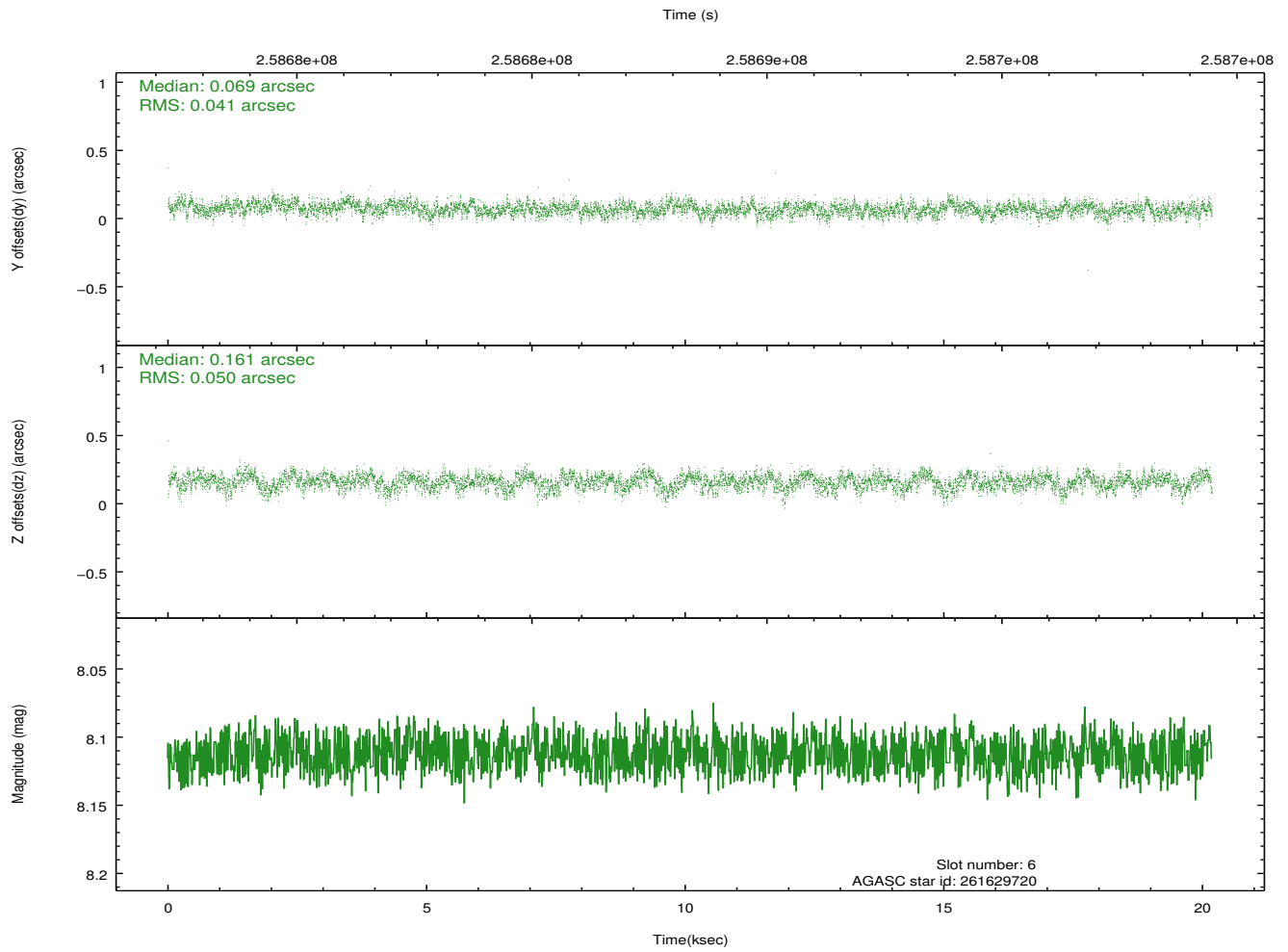
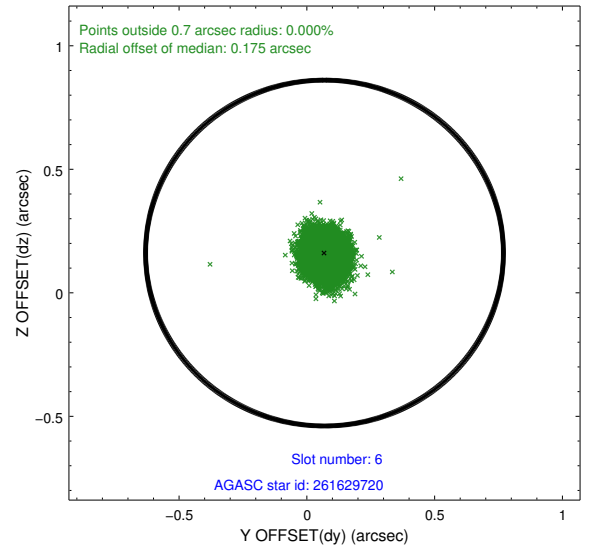
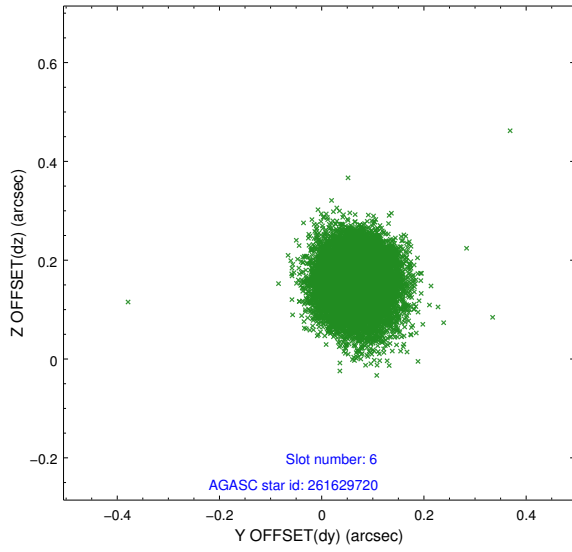
Time (s)



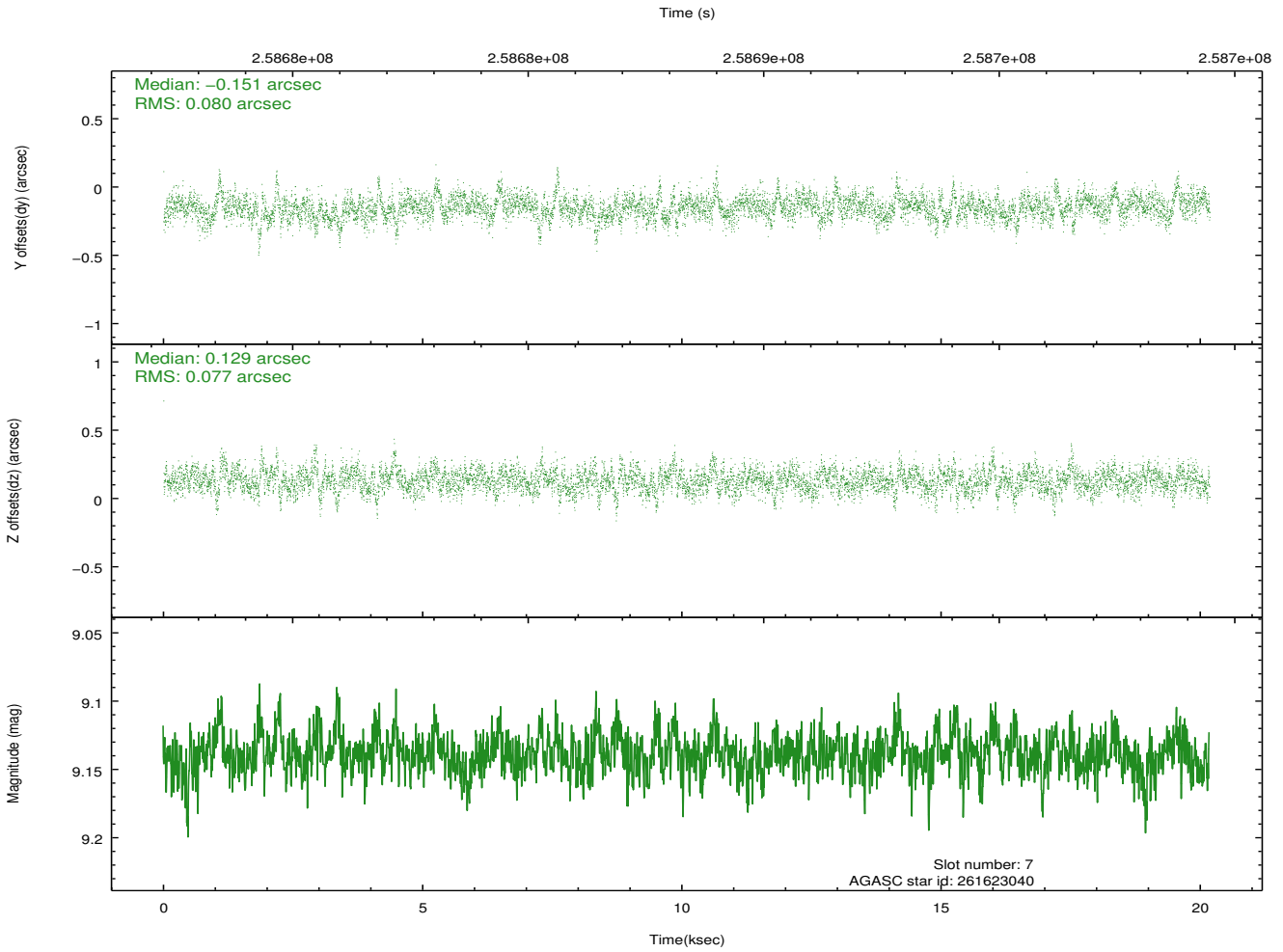
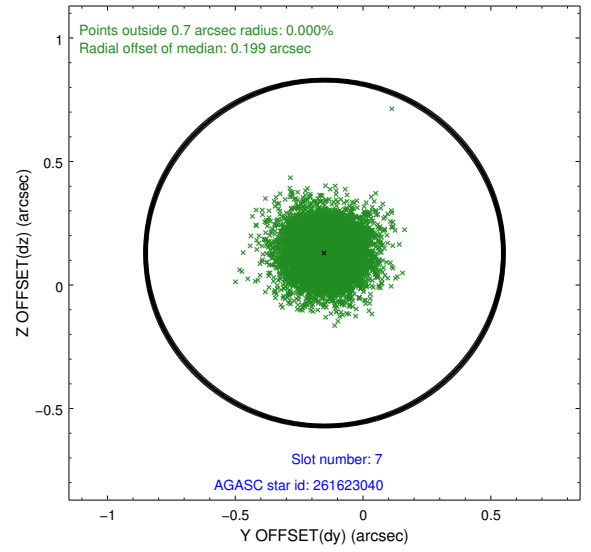
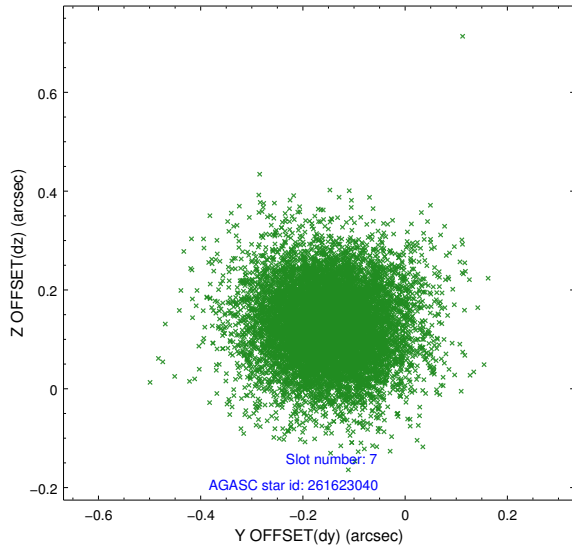
### 2.4.3 Slot 5



### 2.4.4 Slot 6

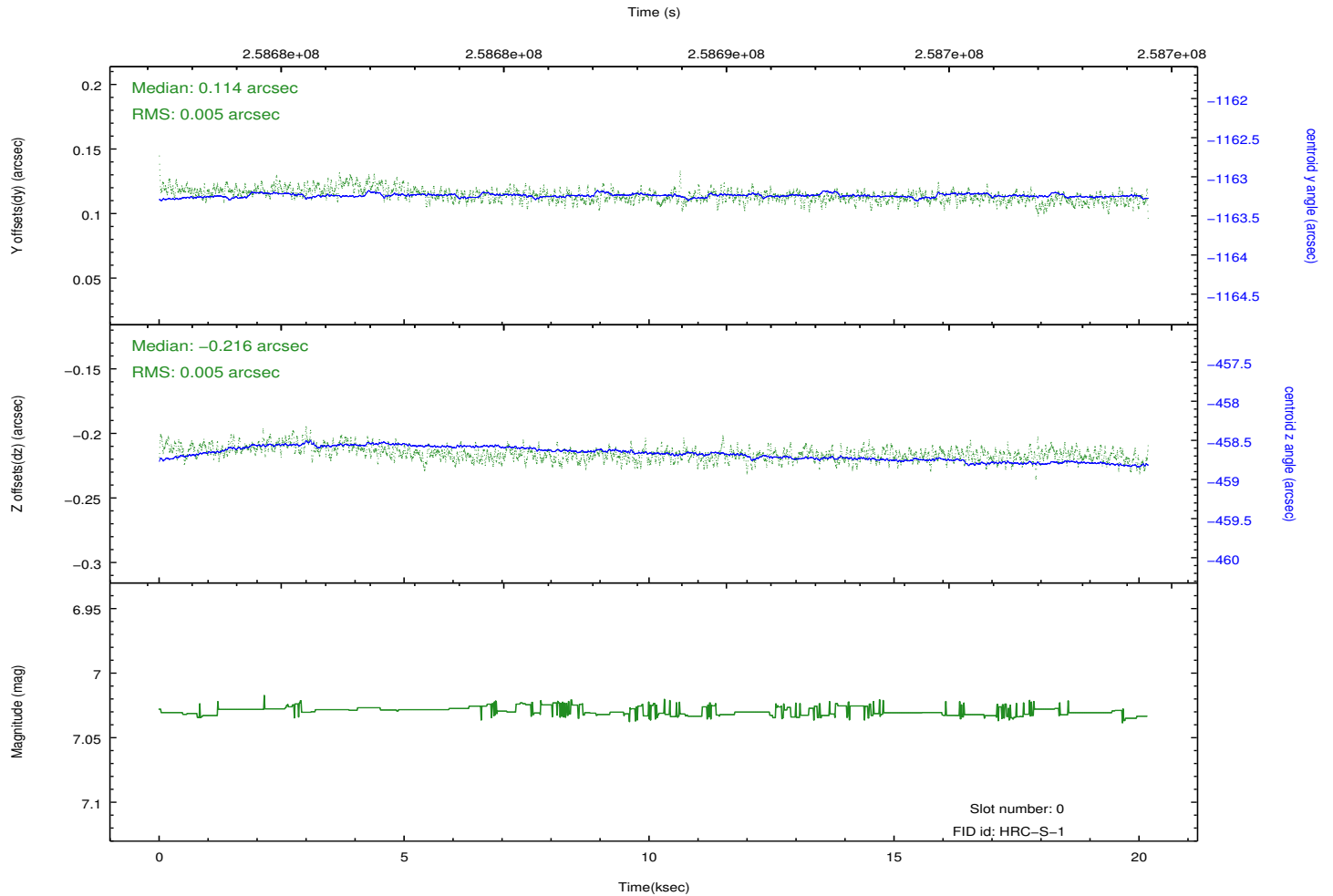
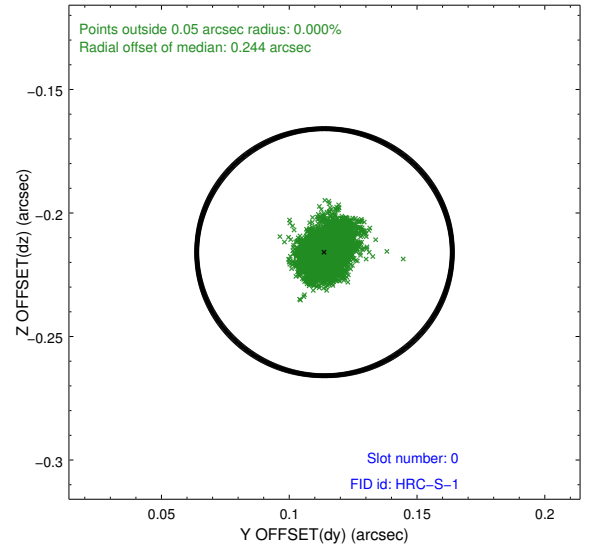
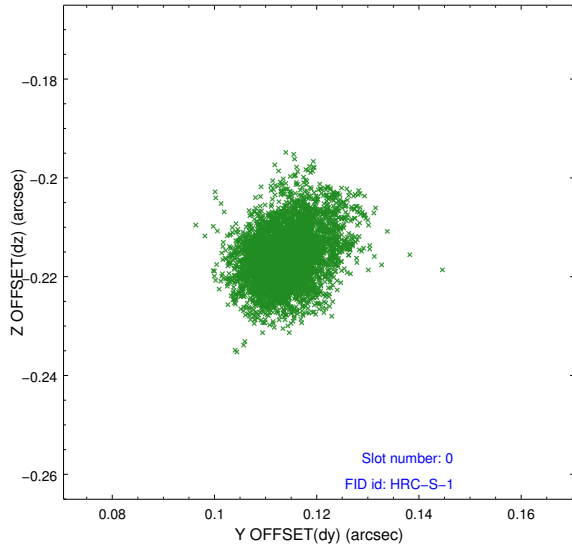


### 2.4.5 Slot 7

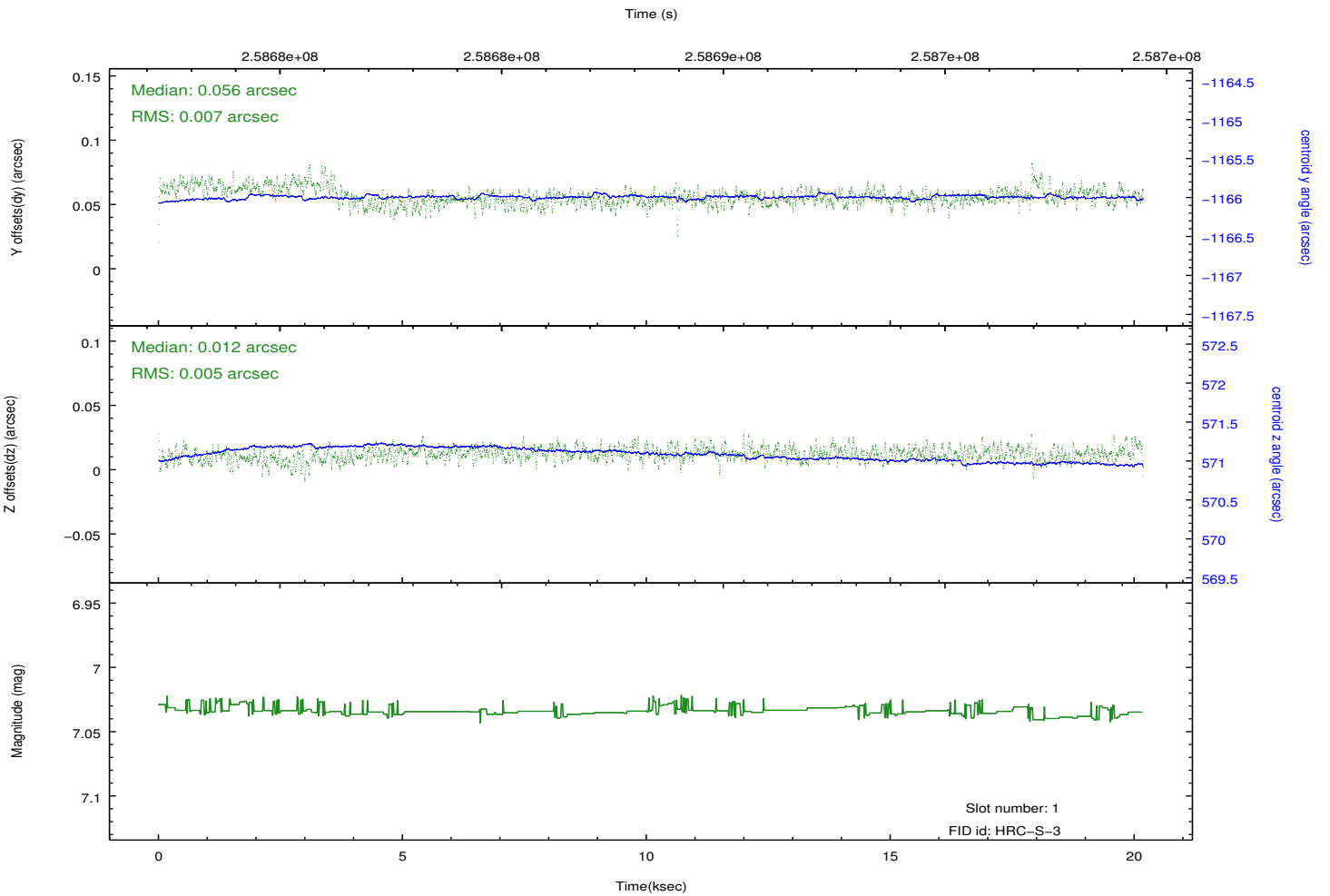
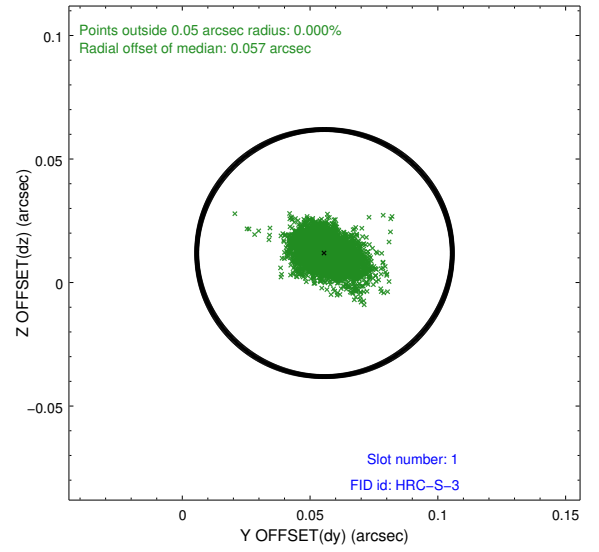
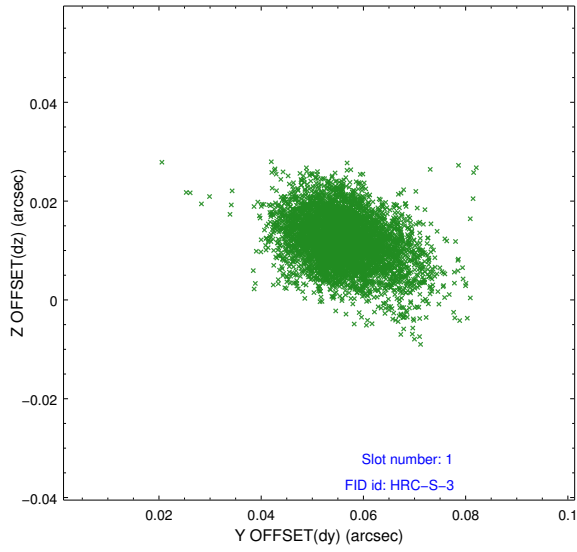


## 2.5 FID Slots

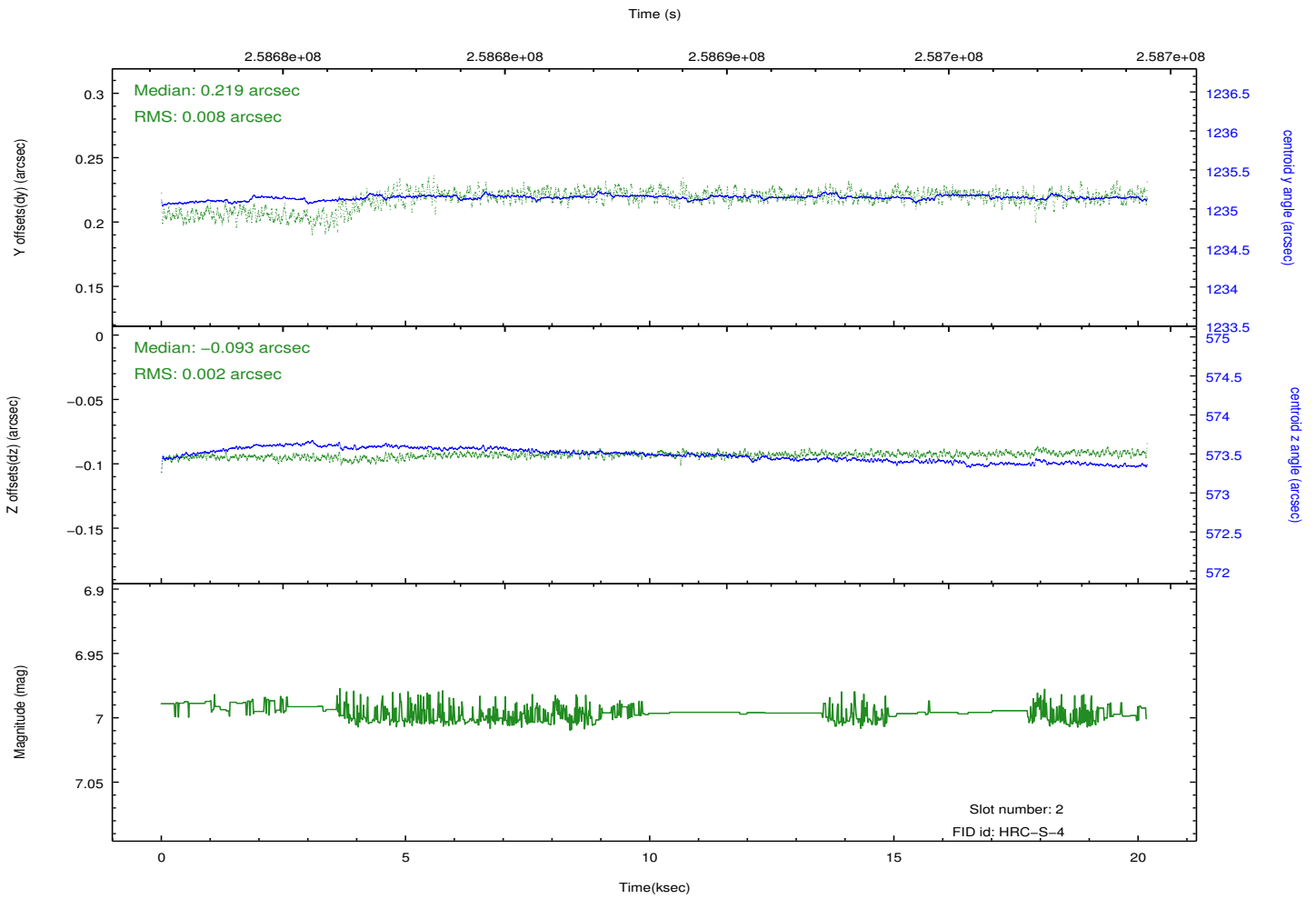
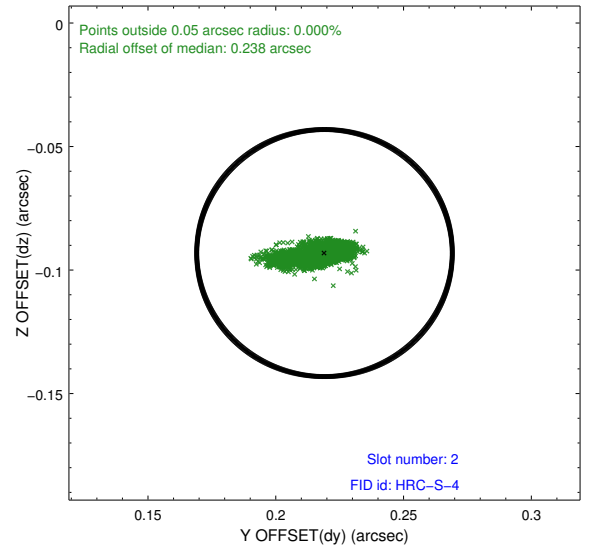
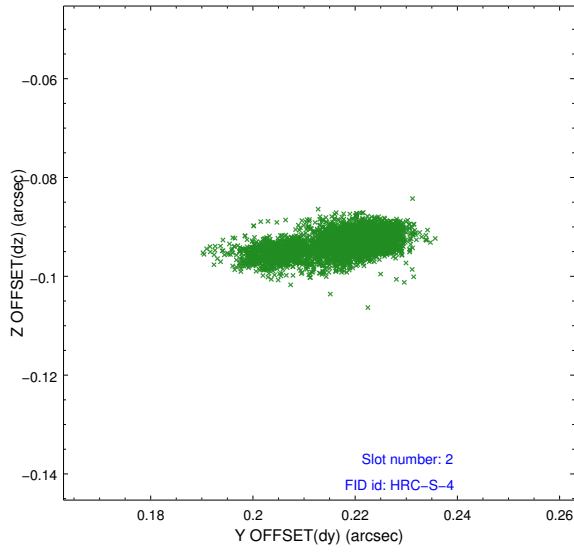
### 2.5.1 Slot 0



## 2.5.2 Slot 1

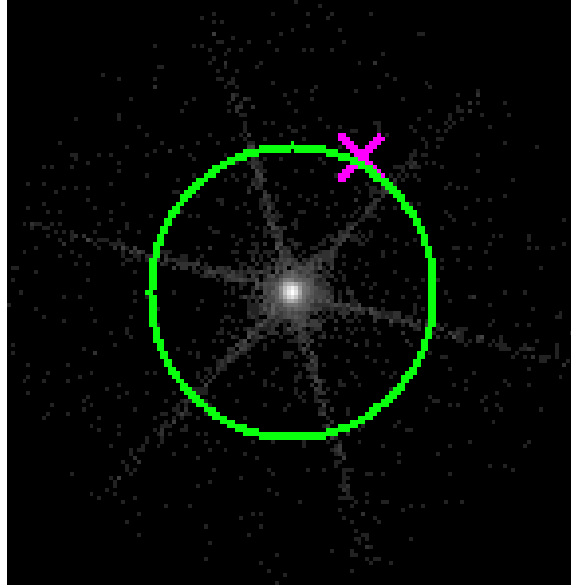


### 2.5.3 Slot 2

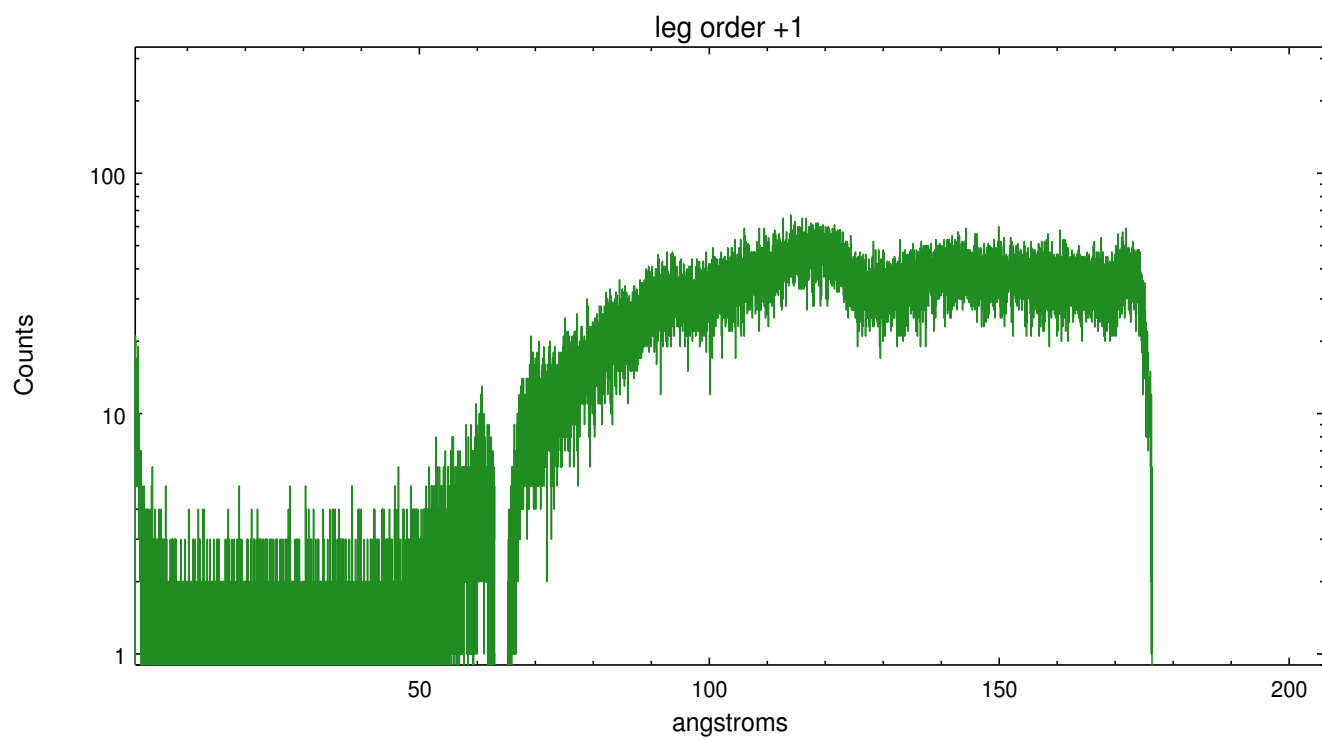
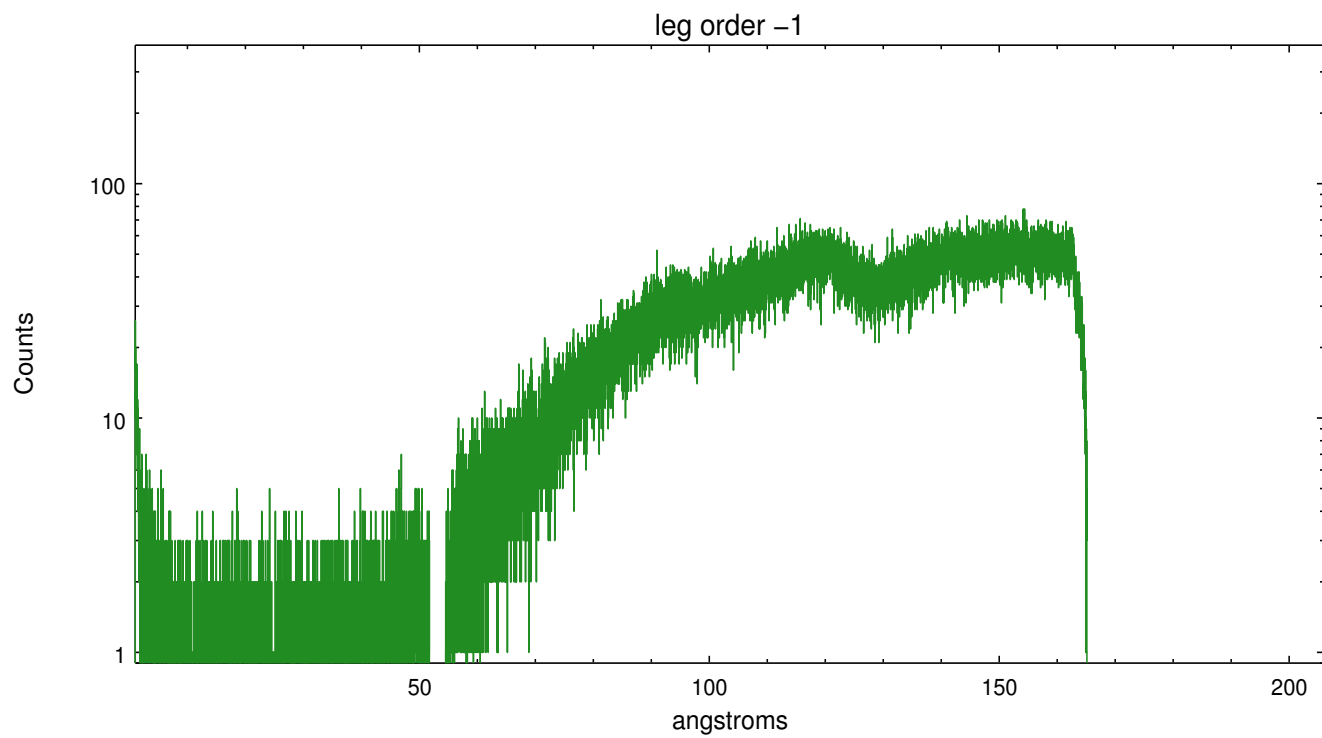


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1814821

## A.2 Comments