

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17378 - L2 Version 1  
Chandra X-Ray Center

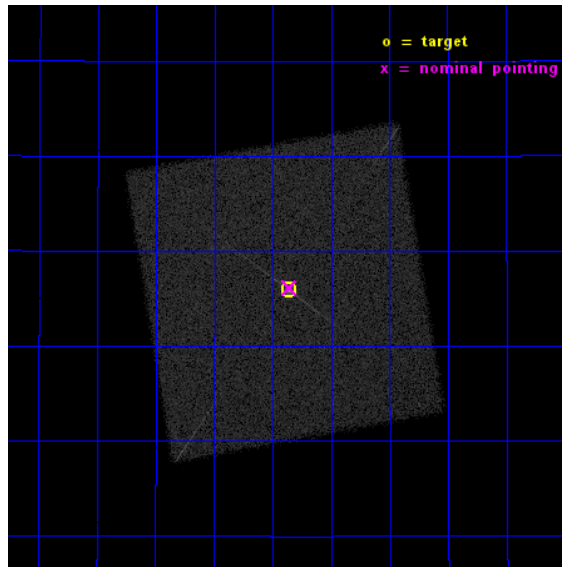
L2 Processing Date : Mar 9 2015

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# 1 Front

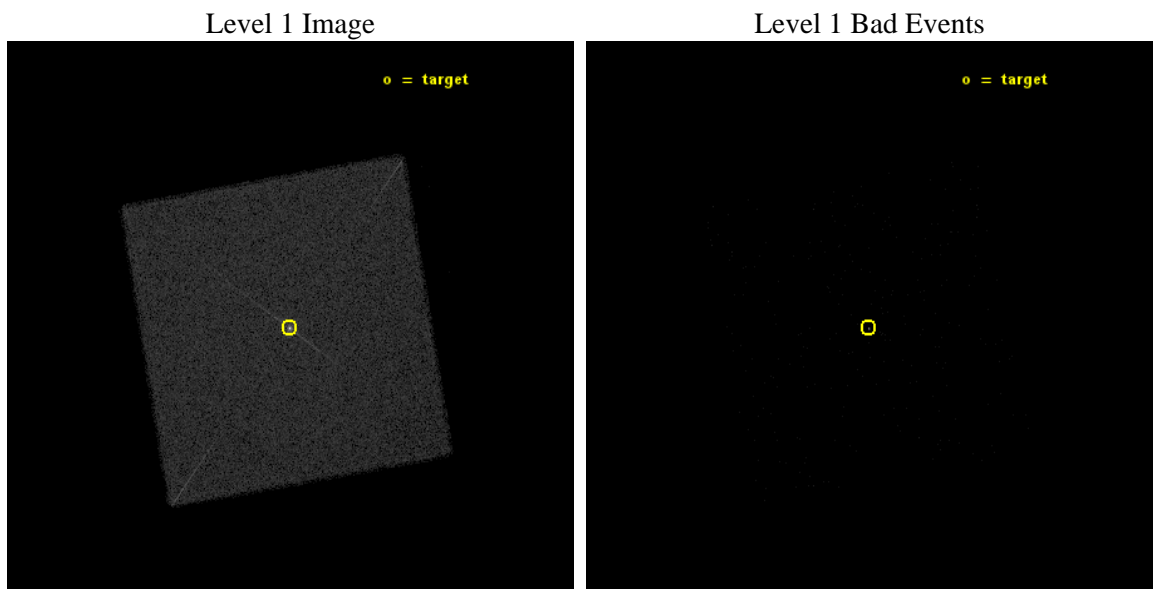
seq_num	291251	Sequence number
obs_id	17378	Observation id
title	AO-16 Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.08915956267	Nominal RA [deg]
dec_nom	29.102507280713	Nominal Dec [deg]
roll_nom	125.12860655429	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2183.2501223087	[s]
livetime	2165.7229015537	Ontime multiplied by DTCOR
l2events	141718	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	2183.2501223087	[s]
caldsver	4.6.7	&#160	l1events	208762	Number of level 1 events
date	2015-03-10T00:55:06	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(16357.05, 16266.30)	src1a sky pixel position

### 2.1.3 Events

#### Level 1 Events

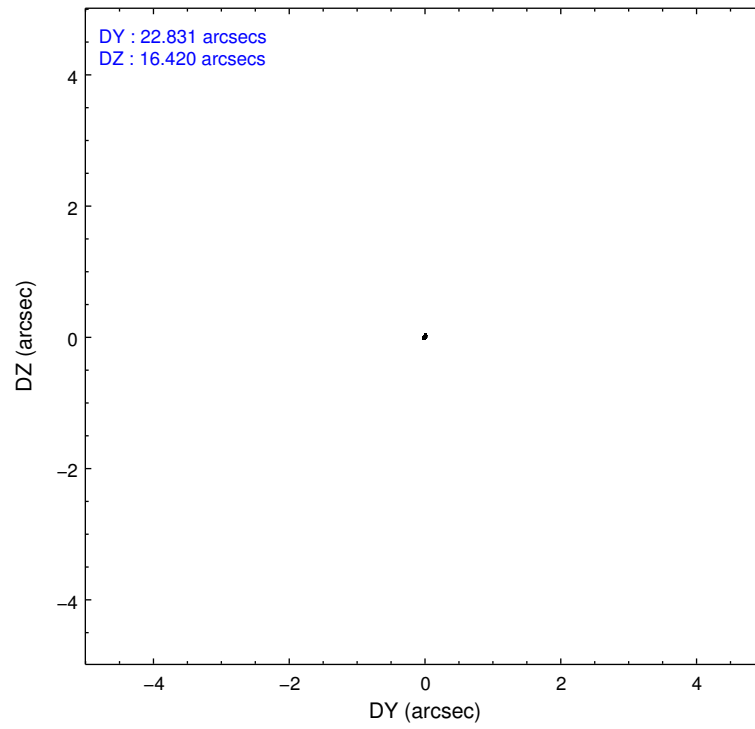
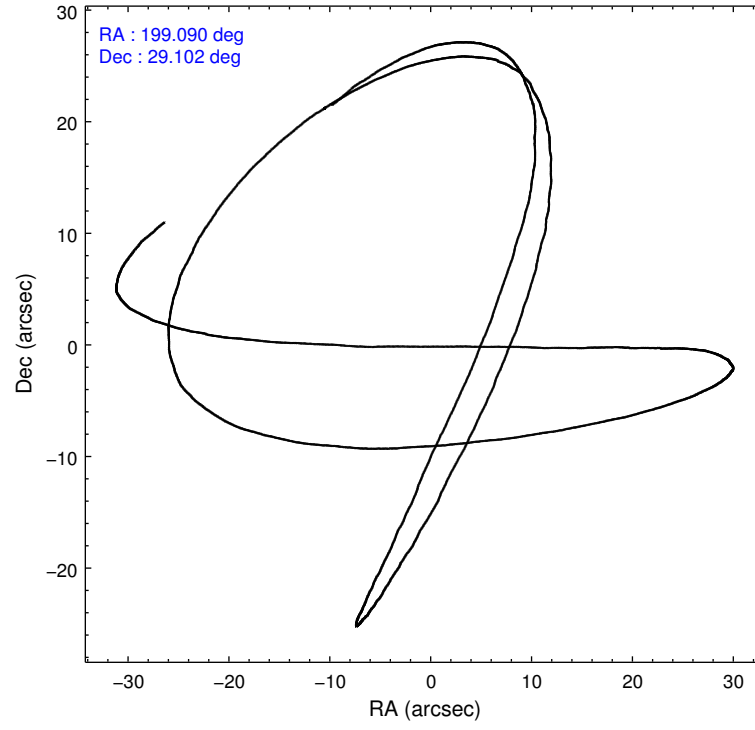
	<b>segment 0</b>
level 1 events	208762
rejected events	21334
rejected %	10%

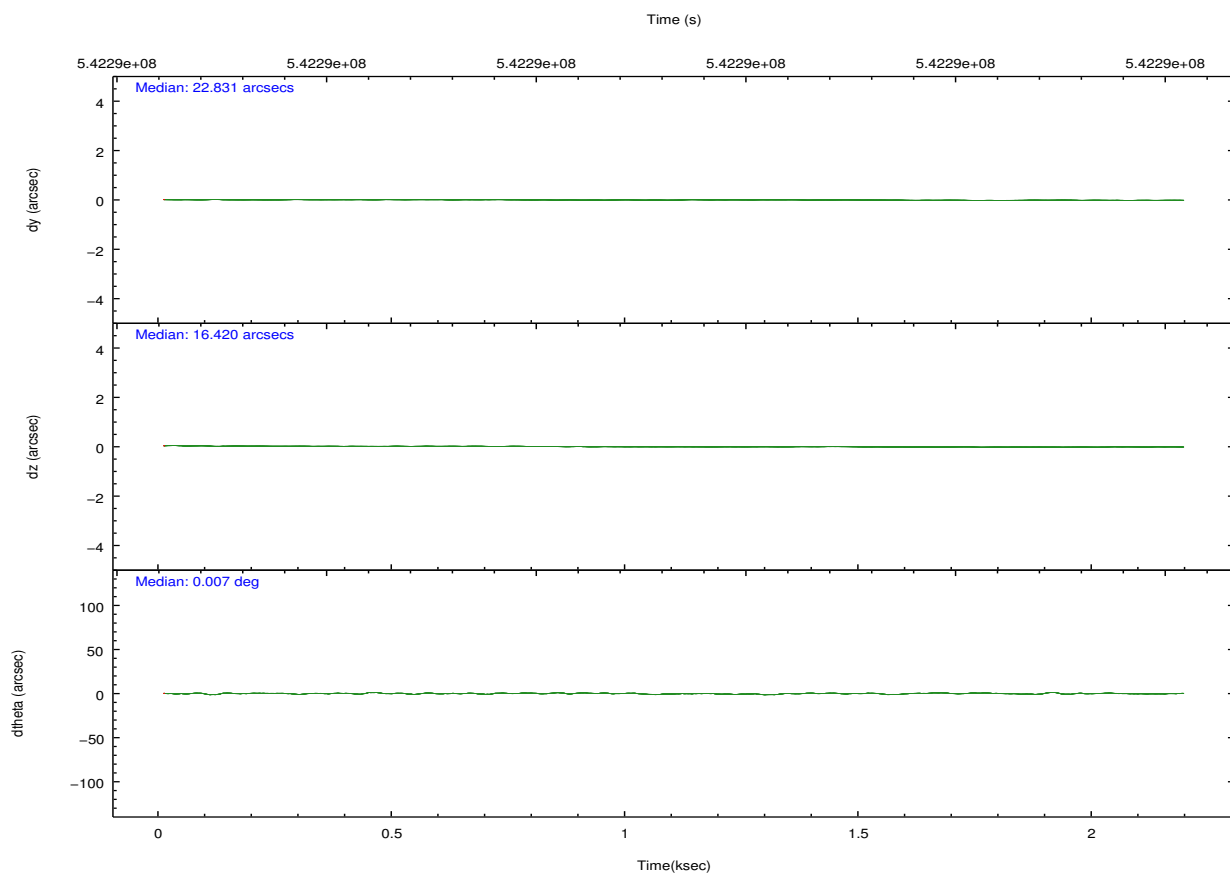
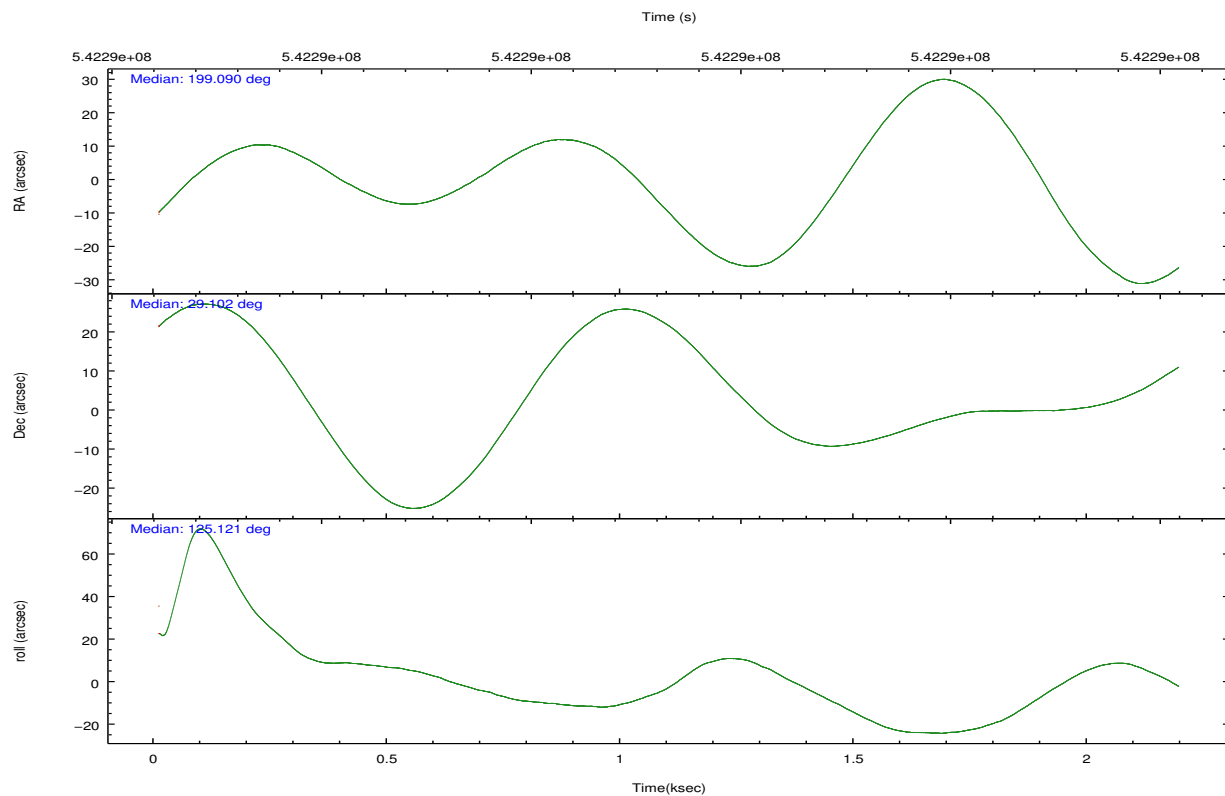
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	199.117827	199.0891595626702
[deg] Pointing Dec	29.091552	29.10250728071273
[deg] Pointing Roll	125.210431	125.1286065542898
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	542290437.184000	542289896.26531
Observation start date	2015-03-09T12:12:50	2015-03-09T12:04:56
[s] Observation end time (MET)	542292437.184000	542293396.128
Observation end date	2015-03-09T12:46:10	2015-03-09T13:03:16

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





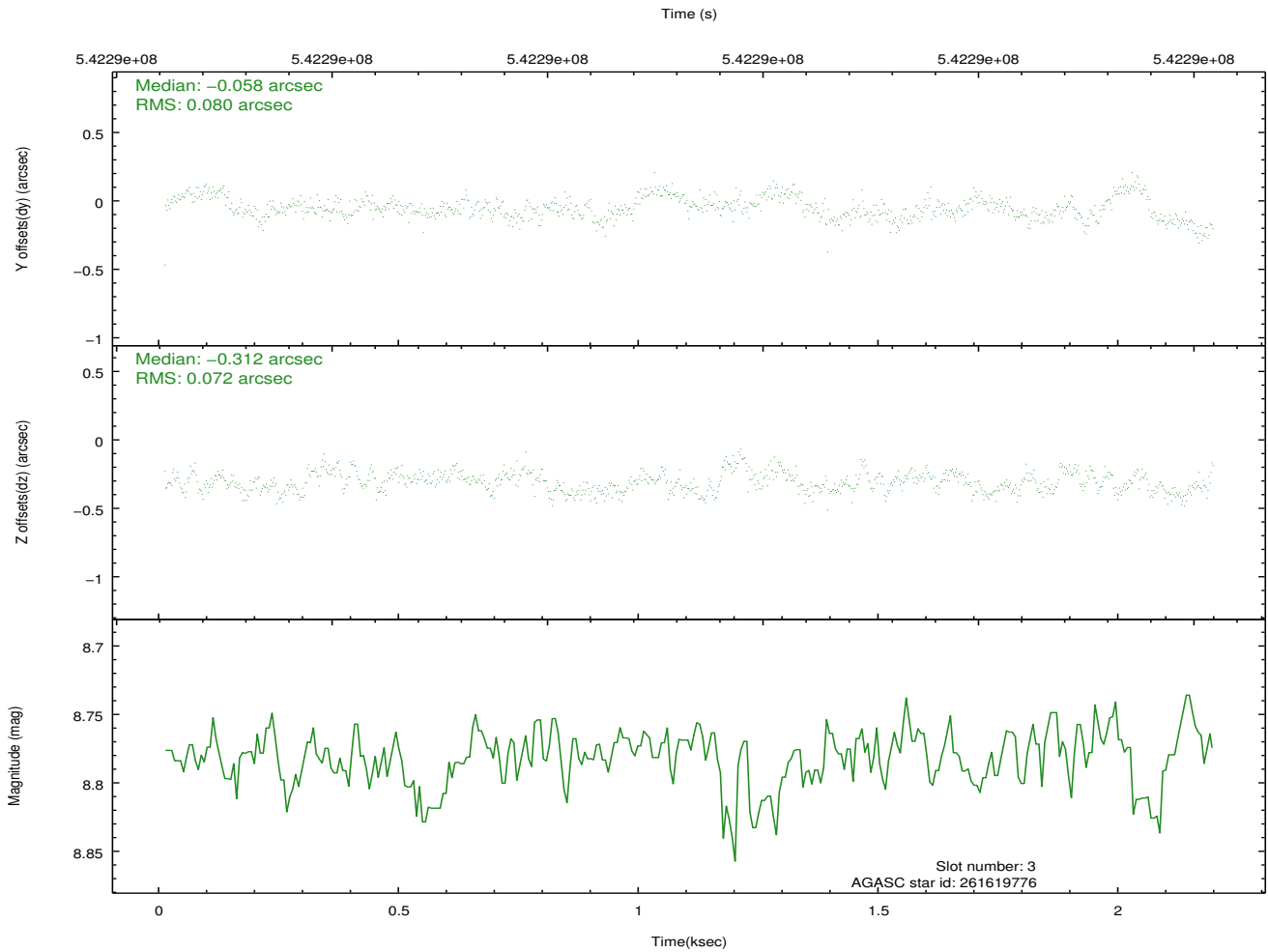
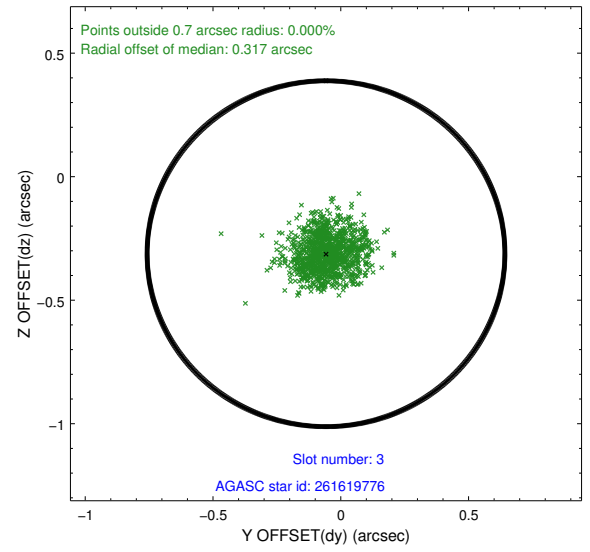
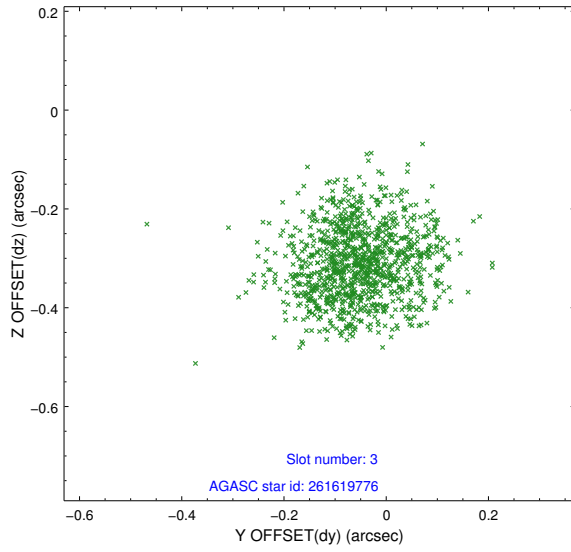
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.98	534	-0.128	0.027	0.007	0.012	0.000000	0.000000	-778.94	-1304.55
1	FID		HRC-I-2	7.01	534	0.269	-0.112	0.006	0.011	0.000000	0.000000	832.63	-1308.66
2	FID		HRC-I-3	7.07	533	-0.021	-0.005	0.006	0.010	0.000000	0.000000	-1205.81	997.52
3	GUIDE	used	261619776	8.78	1067	-0.058	-0.312	0.116	0.178	198.654383	29.401174	1750.20	543.01
4	GUIDE	used	261621256	10.35	1043	-0.027	-0.150	0.388	0.573	198.855442	28.471997	-1341.70	1964.20
5	GUIDE	used	261621400	6.97	1067	-0.099	-0.155	0.114	0.199	198.901600	28.741982	-635.16	1284.99
6	GUIDE	used	261626376	9.67	1067	-0.038	0.156	0.259	0.400	198.947288	29.347445	1061.53	-92.17
7	GUIDE	used	261629720	8.11	1066	0.230	0.482	0.109	0.182	199.236176	29.044452	-351.71	-206.19

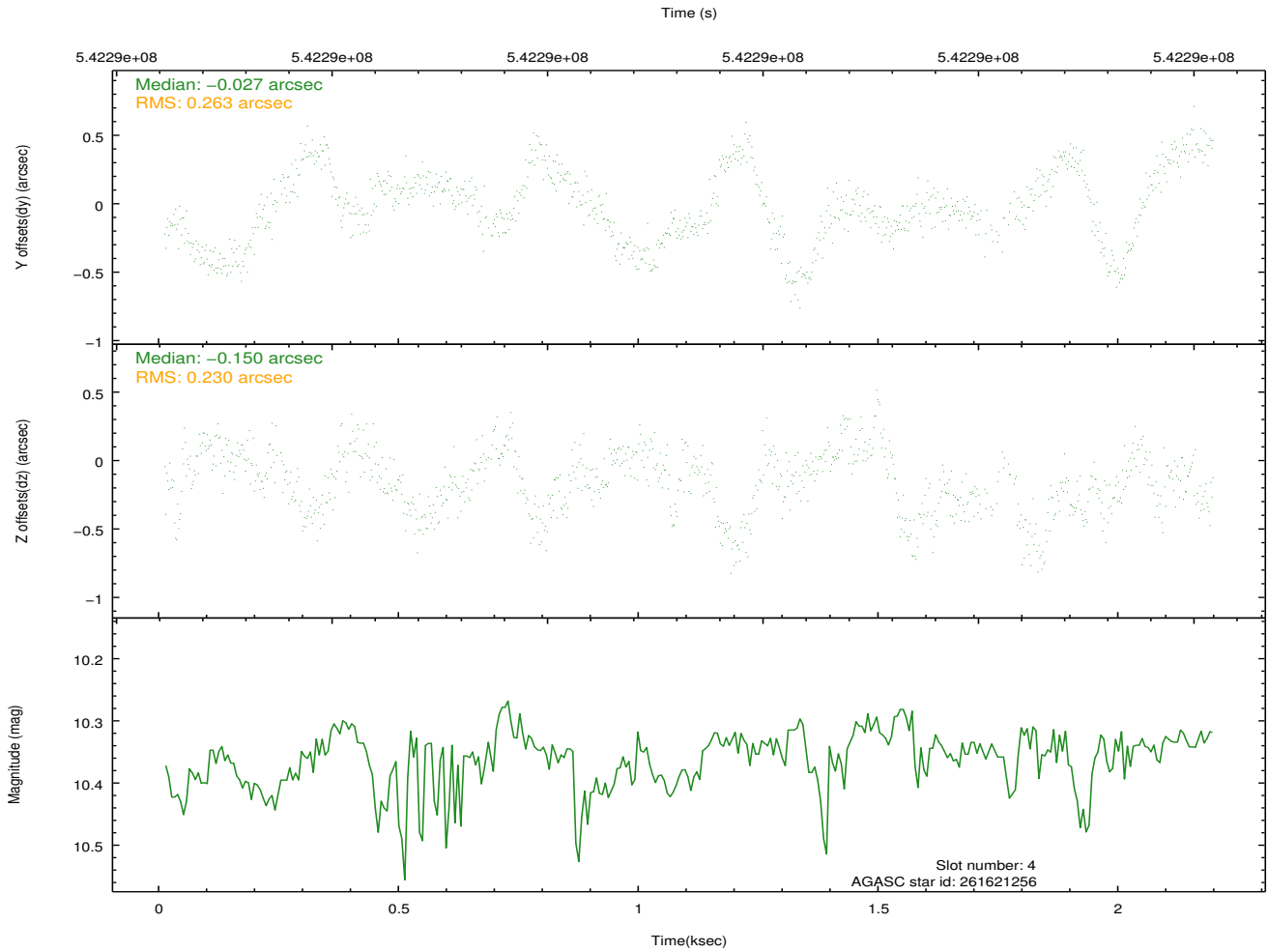
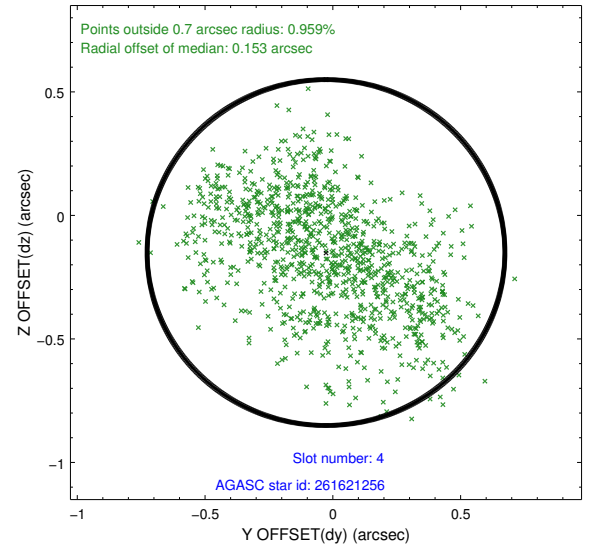
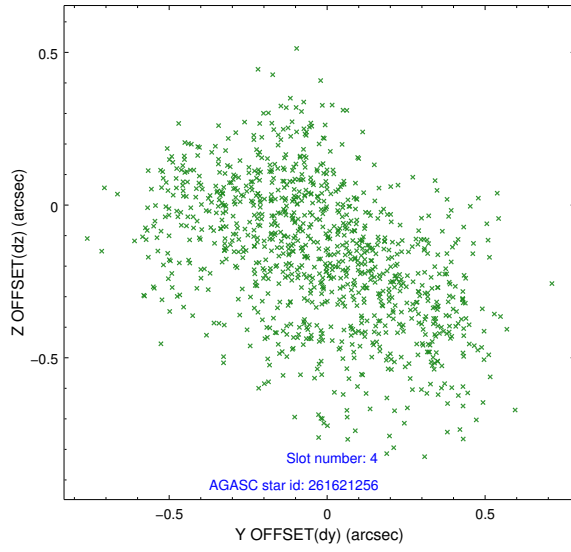


## 2.4 Star Slots

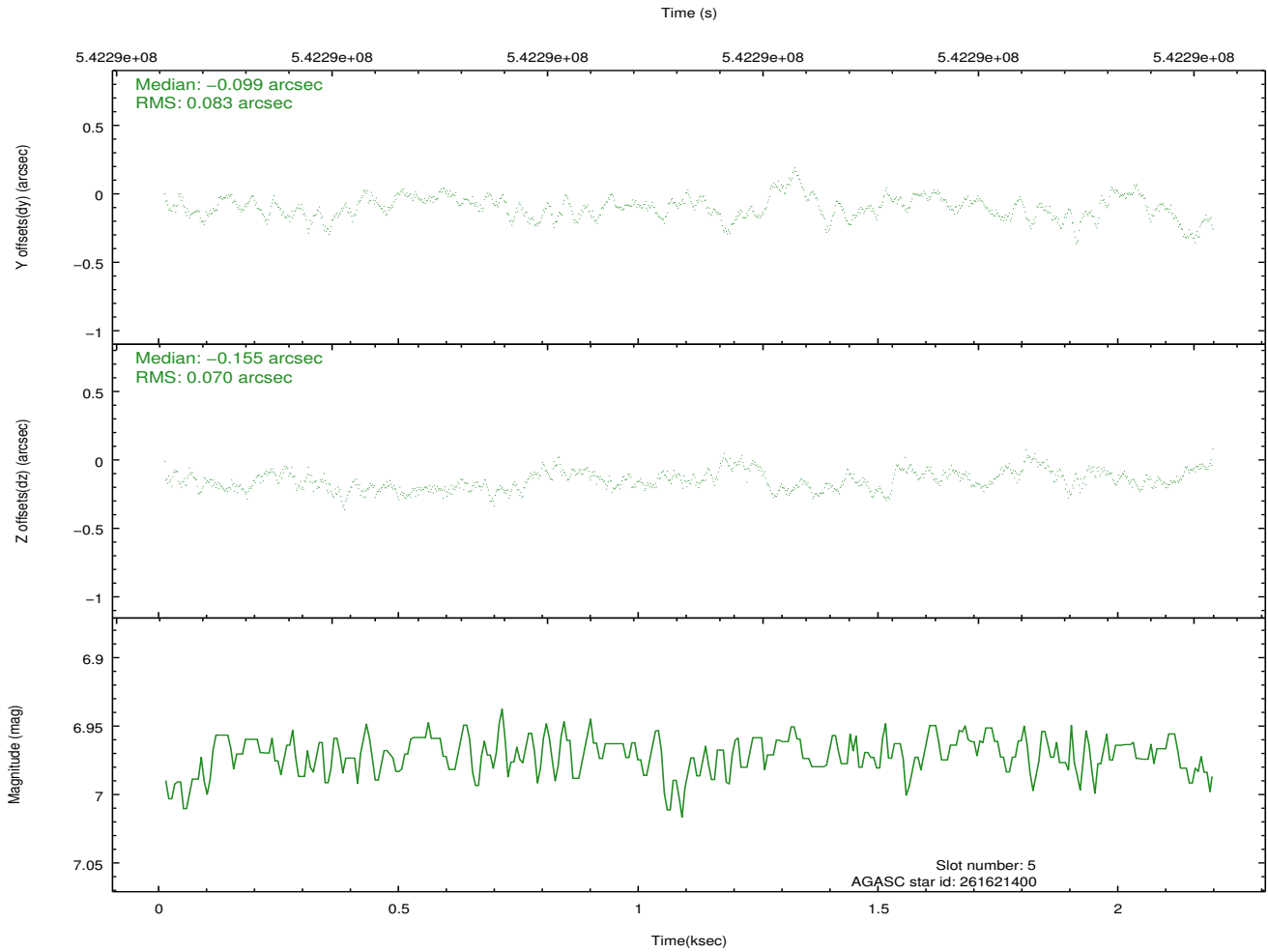
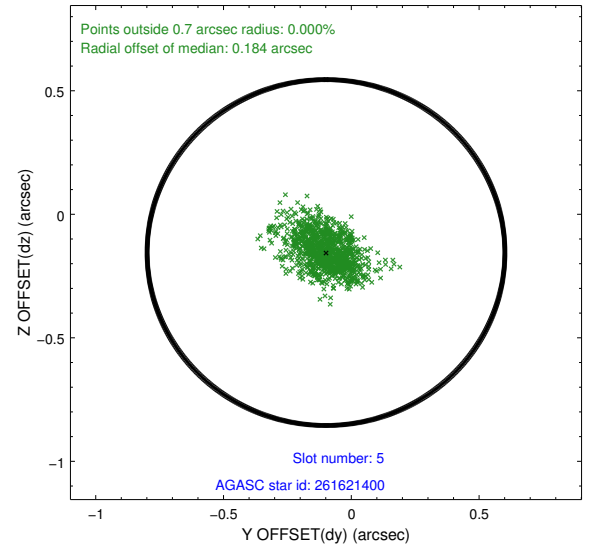
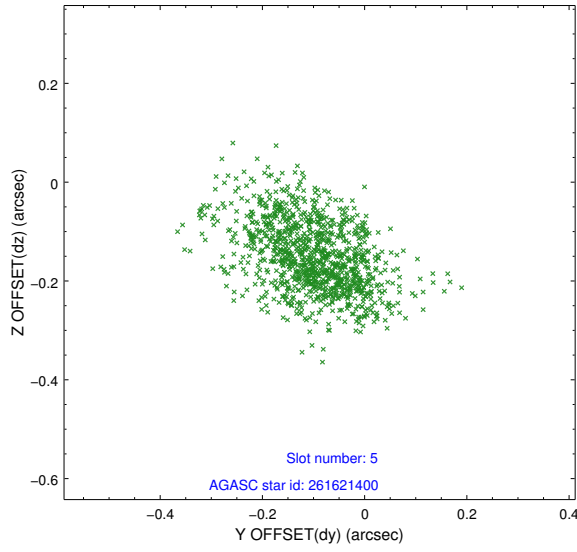
### 2.4.1 Slot 3



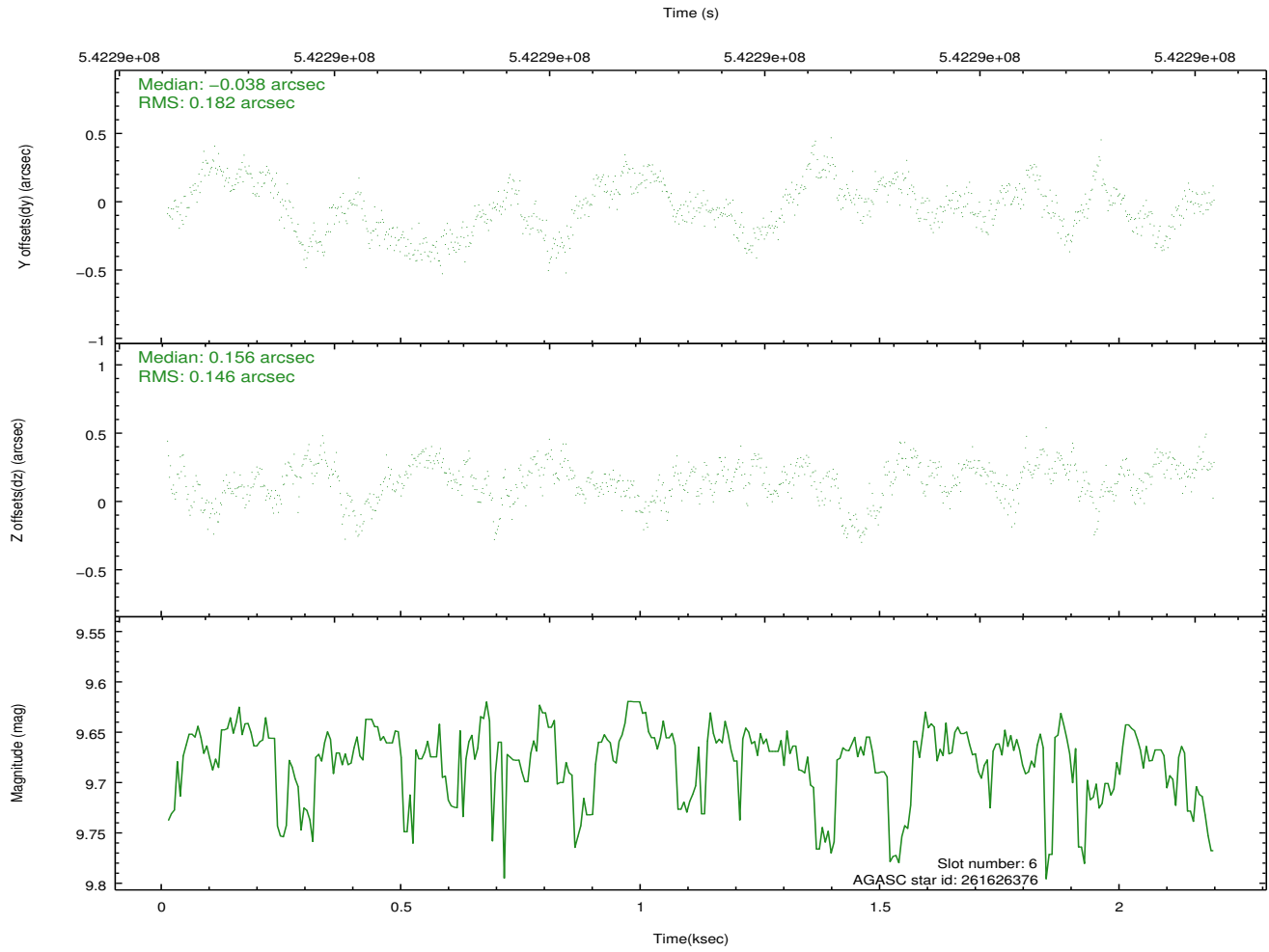
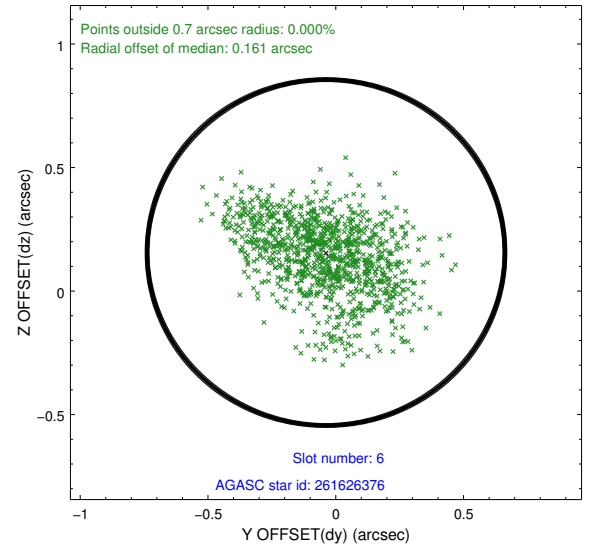
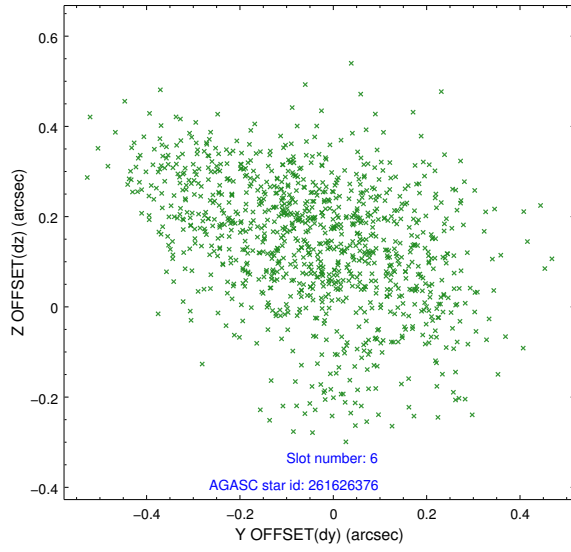
## 2.4.2 Slot 4



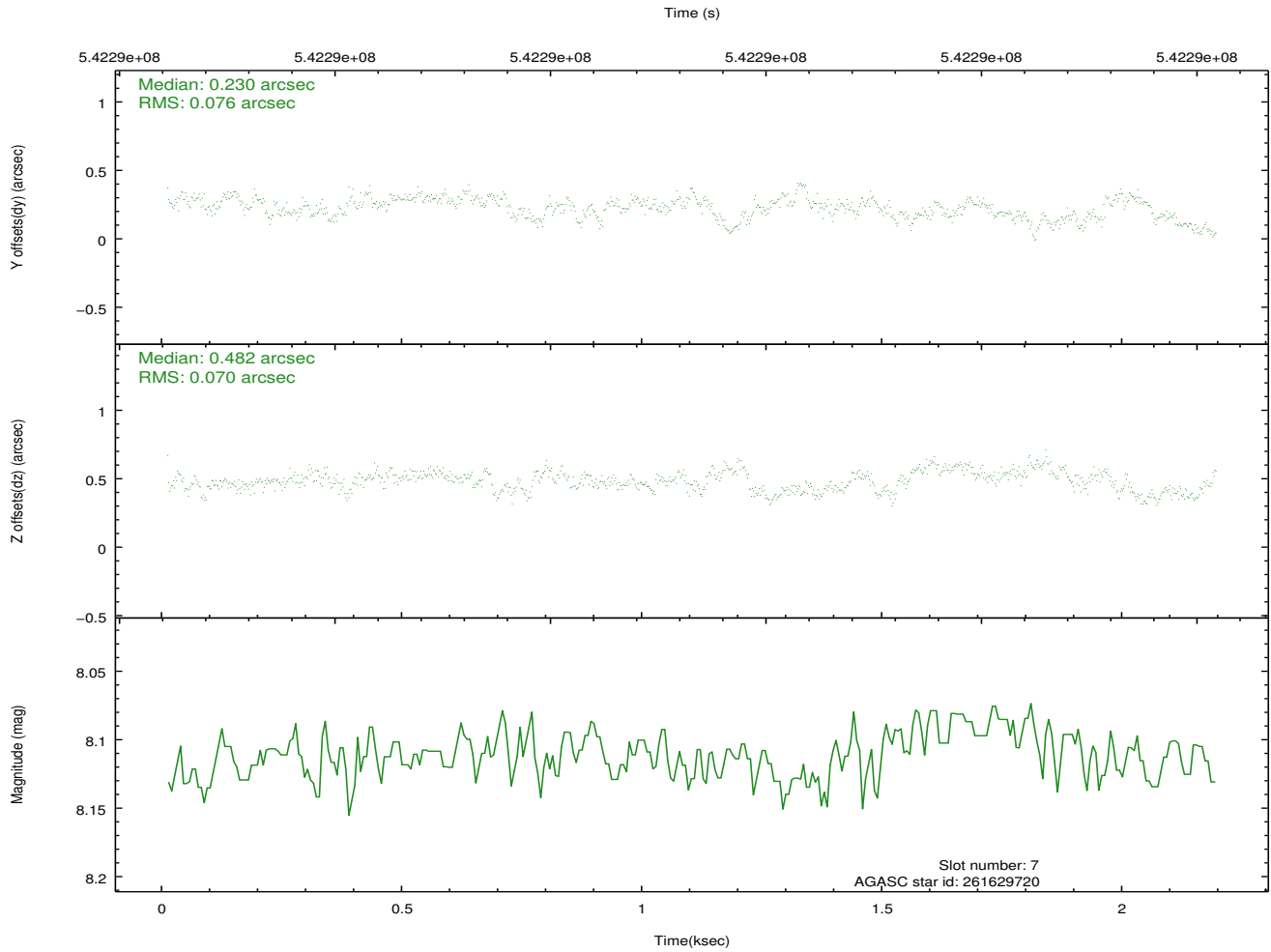
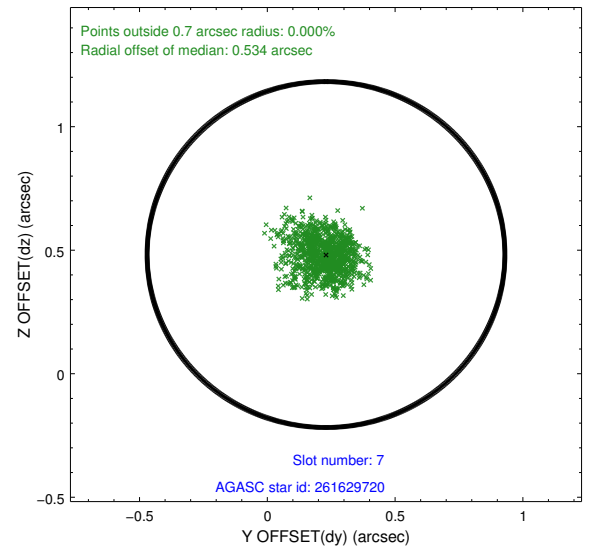
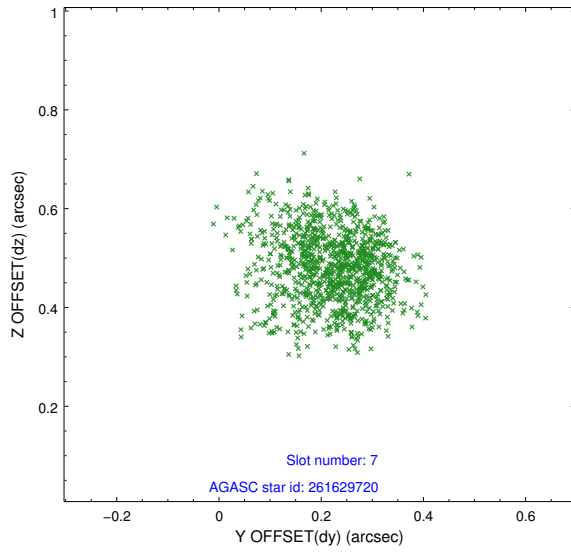
### 2.4.3 Slot 5



## 2.4.4 Slot 6

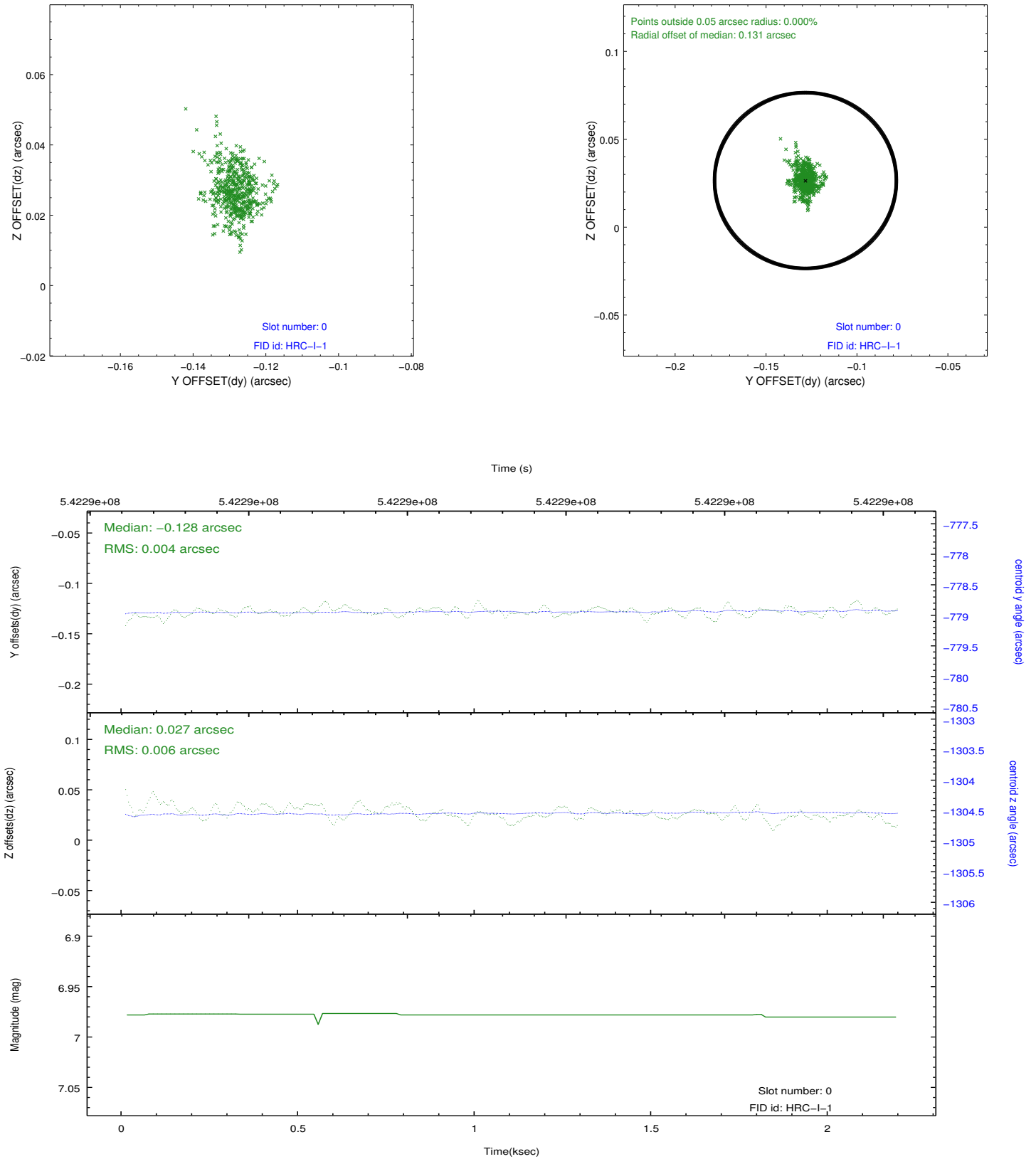


## 2.4.5 Slot 7

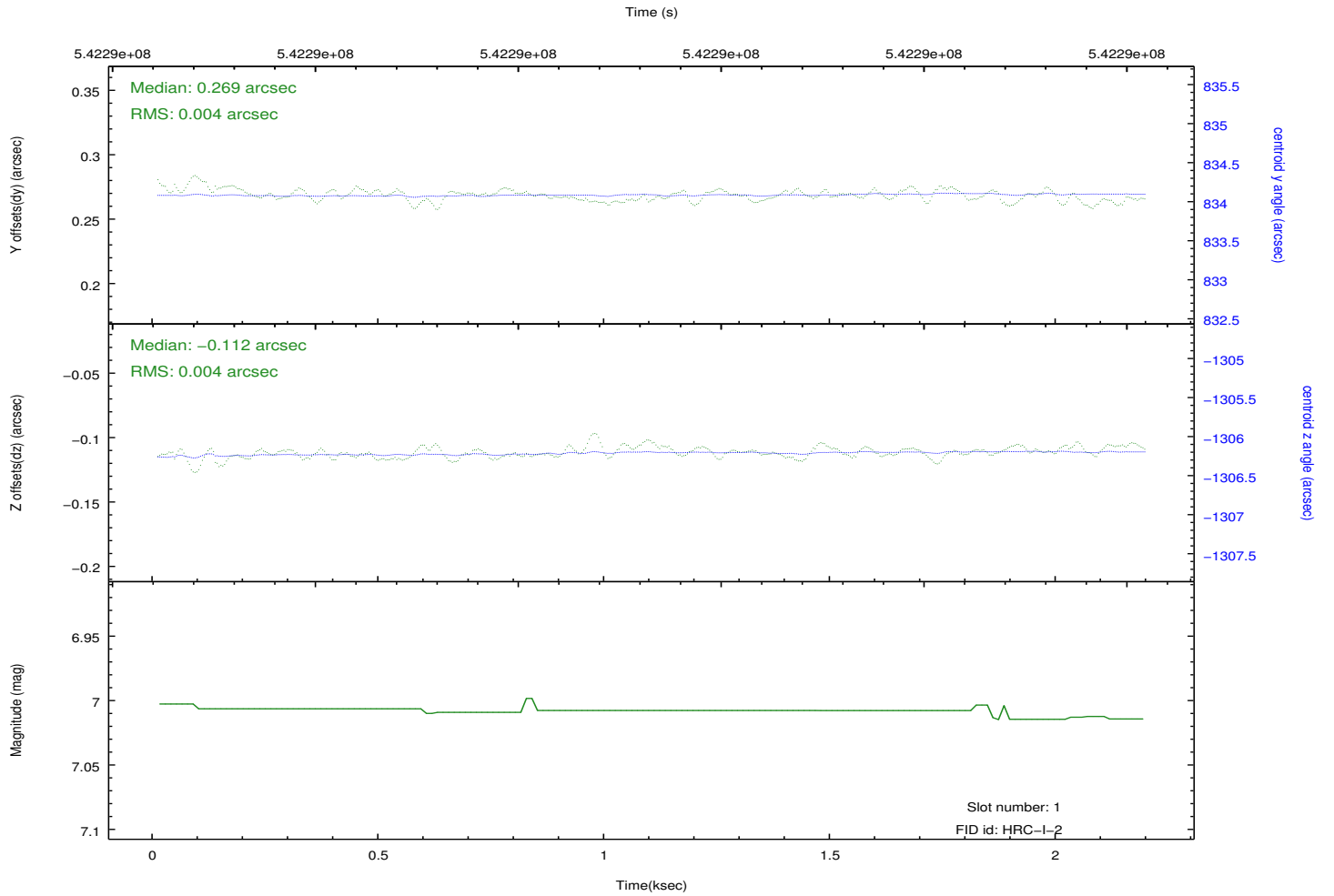
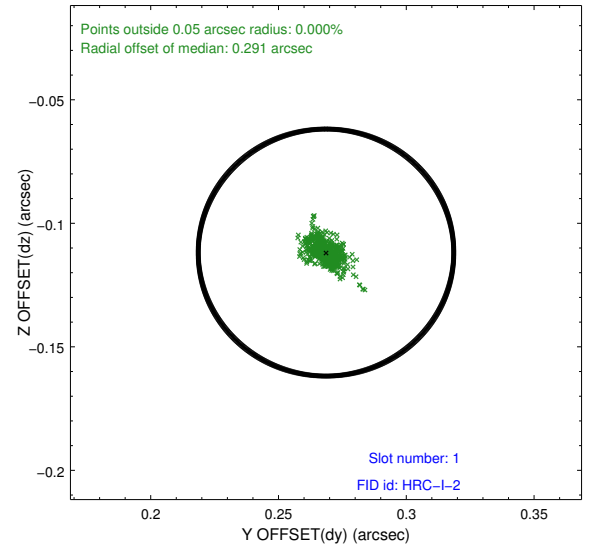
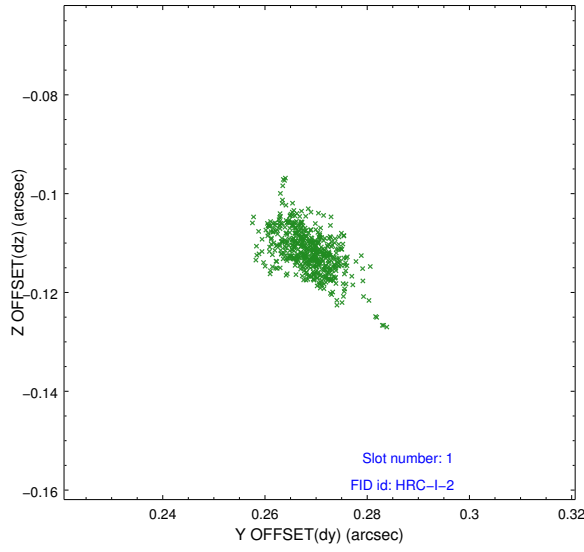


## 2.5 FID Slots

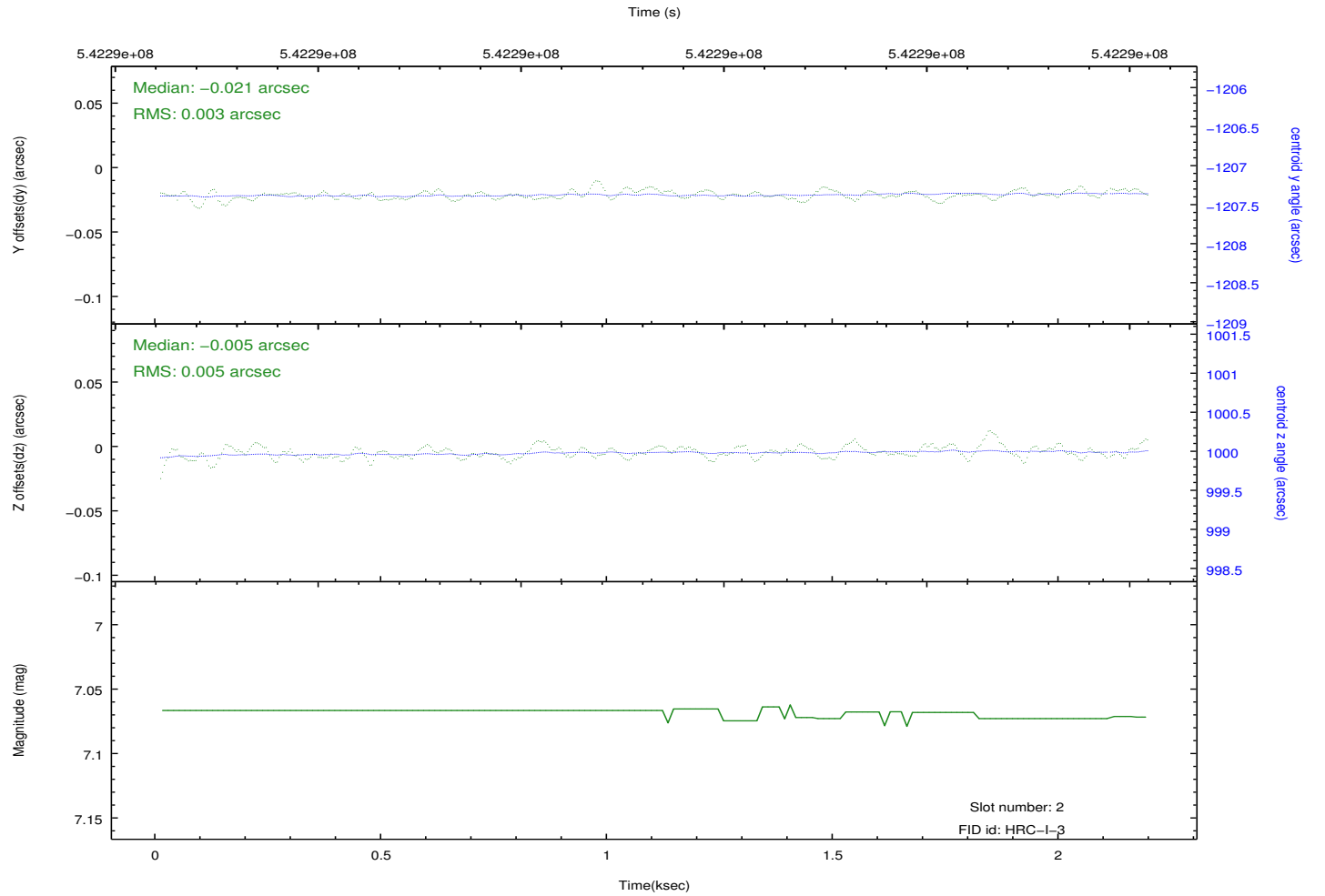
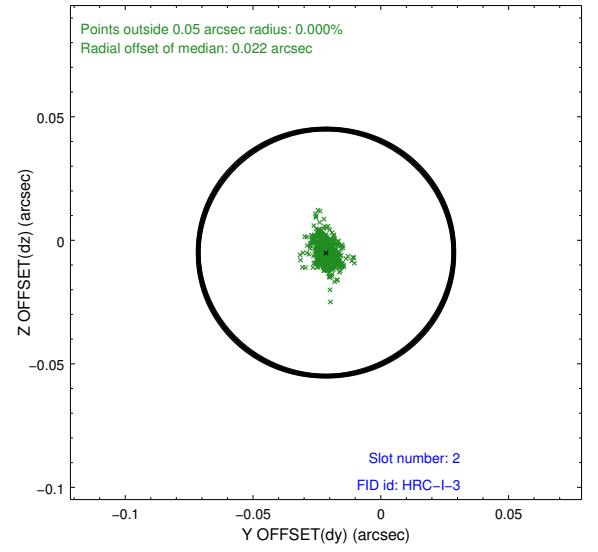
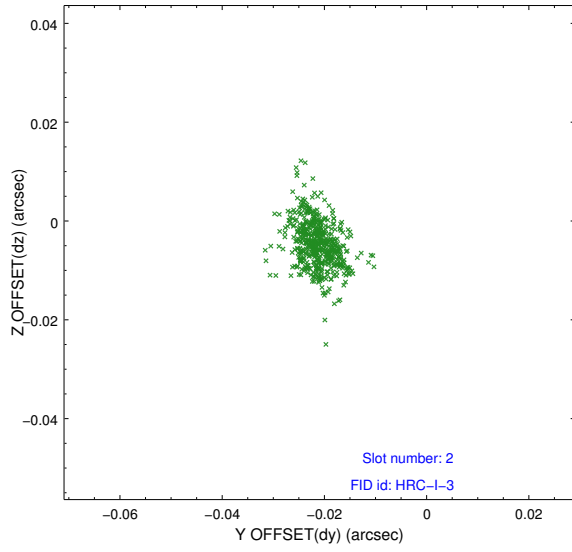
### 2.5.1 Slot 0



## 2.5.2 Slot 1



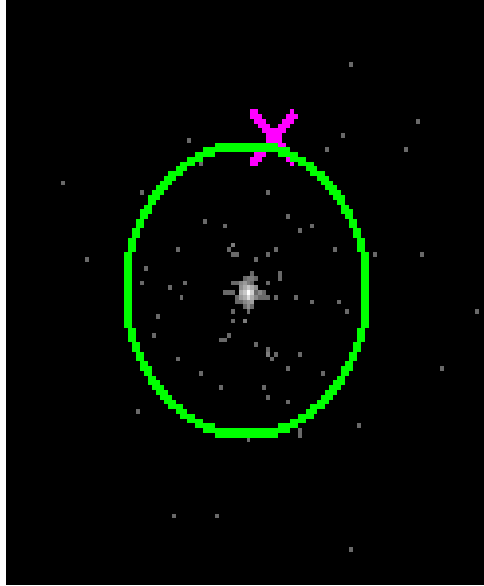
### 2.5.3 Slot 2



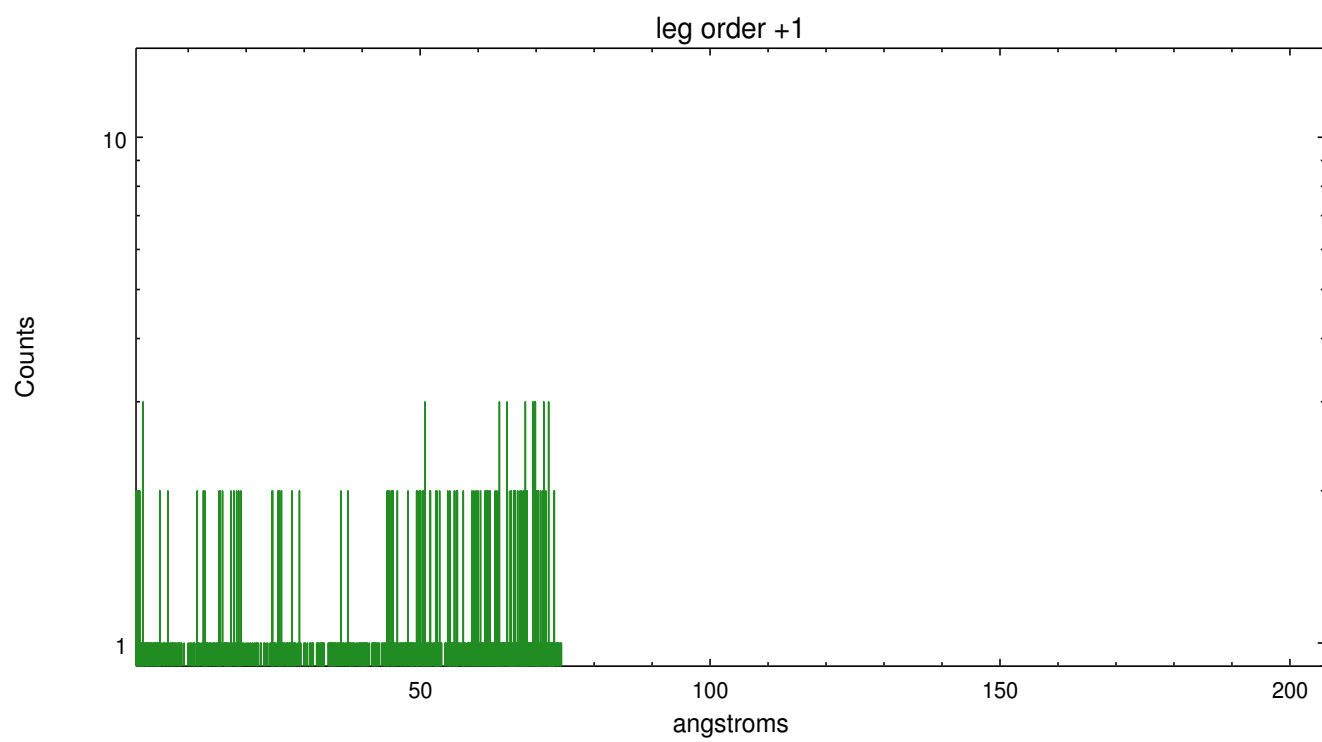
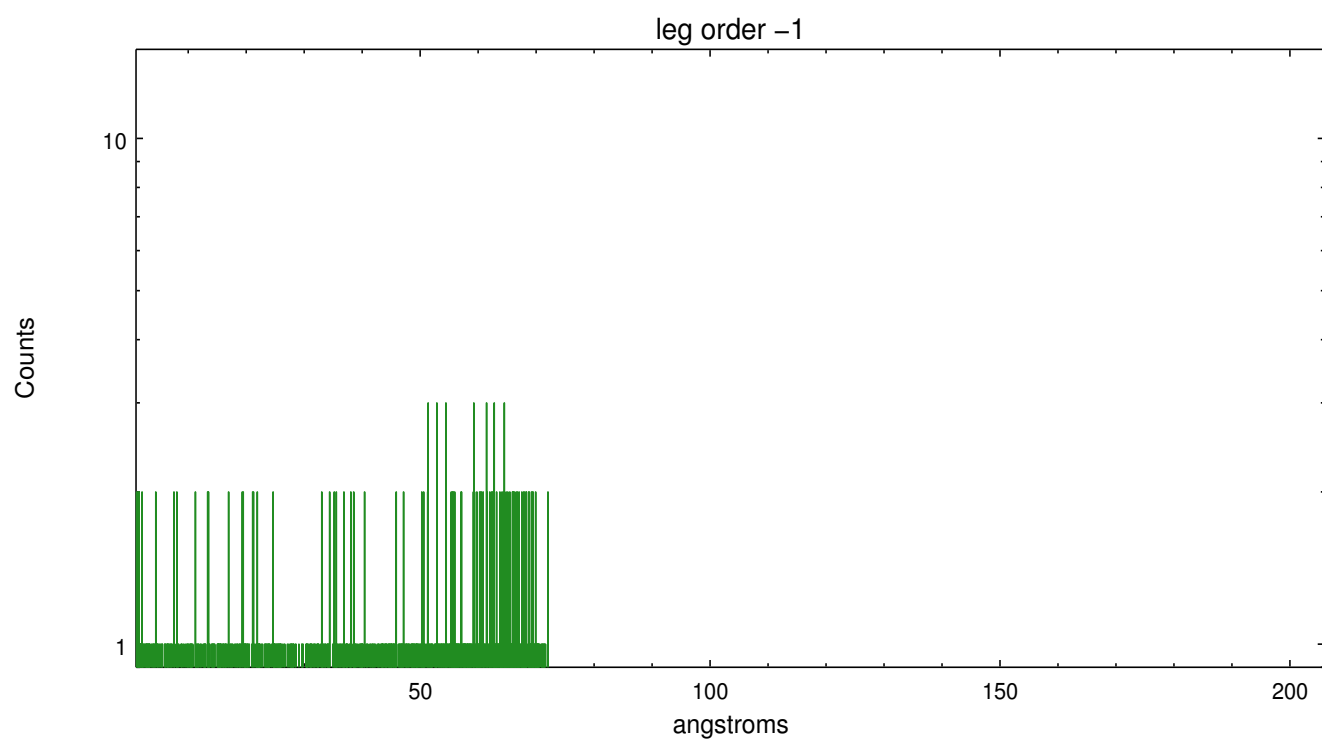


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1832501223087

### A.2 Comments