

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5957 - L2 Version 4  
Chandra X-Ray Center

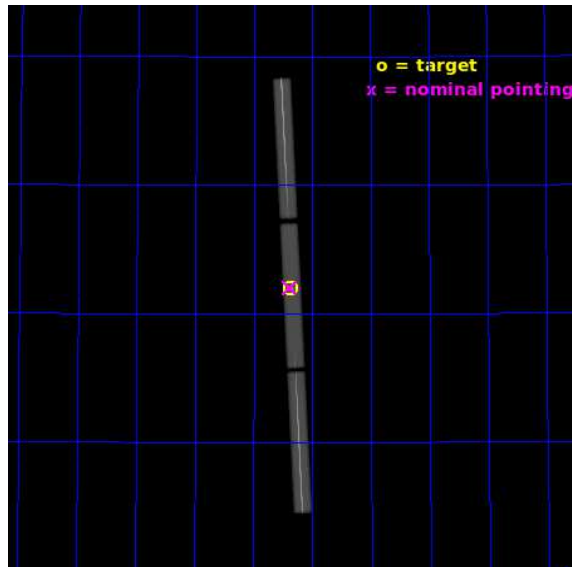
L2 Processing Date : Oct 6 2020

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# 1 Front

seq_num	290449	Sequence number
obs_id	5957	Observation id
title	AO6 Calibration Observations of HZ43	Proposal title
observer	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	199.09536952599	Nominal RA [deg]
dec_nom	29.10146100562	Nominal Dec [deg]
roll_nom	87.246381523373	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20185.582162768	[s]
livetime	19990.640370125	Ontime multiplied by DTCOR
l2events	1882912	Number of level 2 events

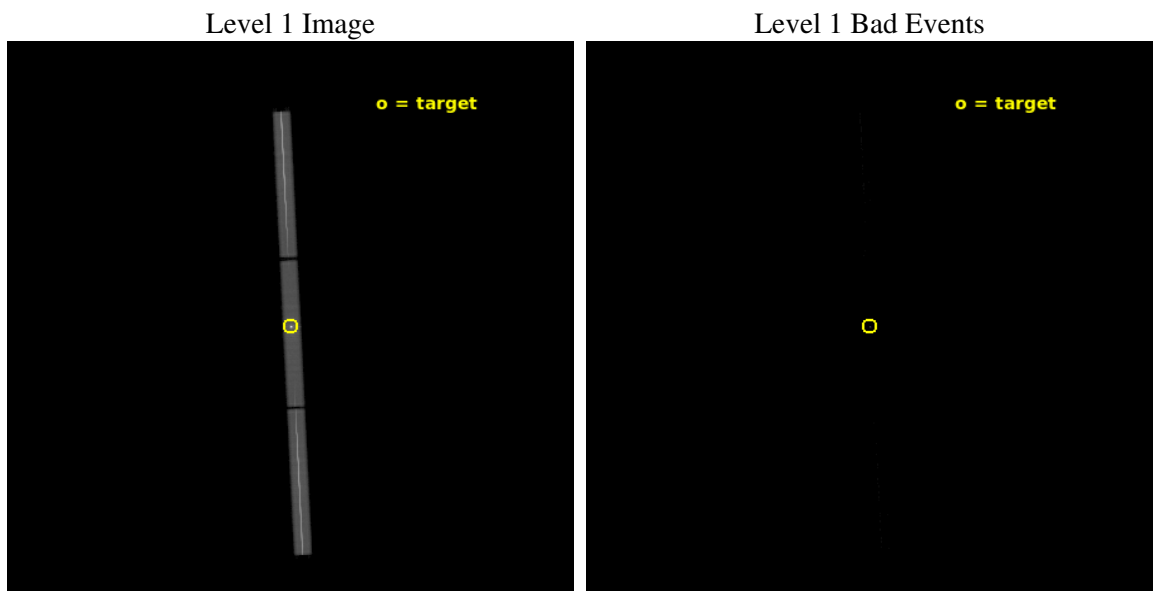




## 2 OBI

### 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	10.9.1	Processing system revision	ontime	20185.582162768	[s]
caldbver	4.9.2	&#160	l1events	2386281	Number of level 1 events
date	2020-10-06T14:44:24	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32876.07, 32690.31)	src1a sky pixel position

### 2.1.3 Events

Level 1 Events

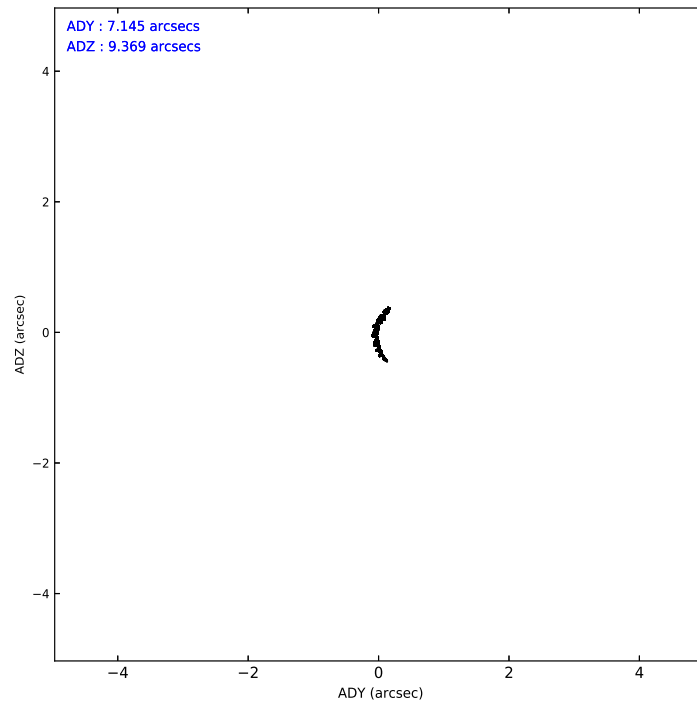
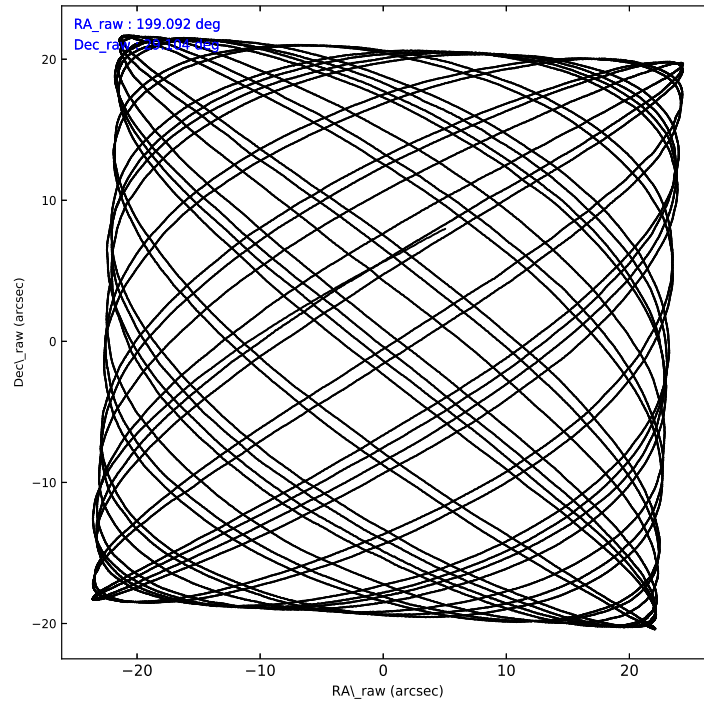
	segment 1	segment 2	segment 3
level 1 events	828905	714361	843015
rejected events	21928	20729	22009
rejected %	2%	2%	2%

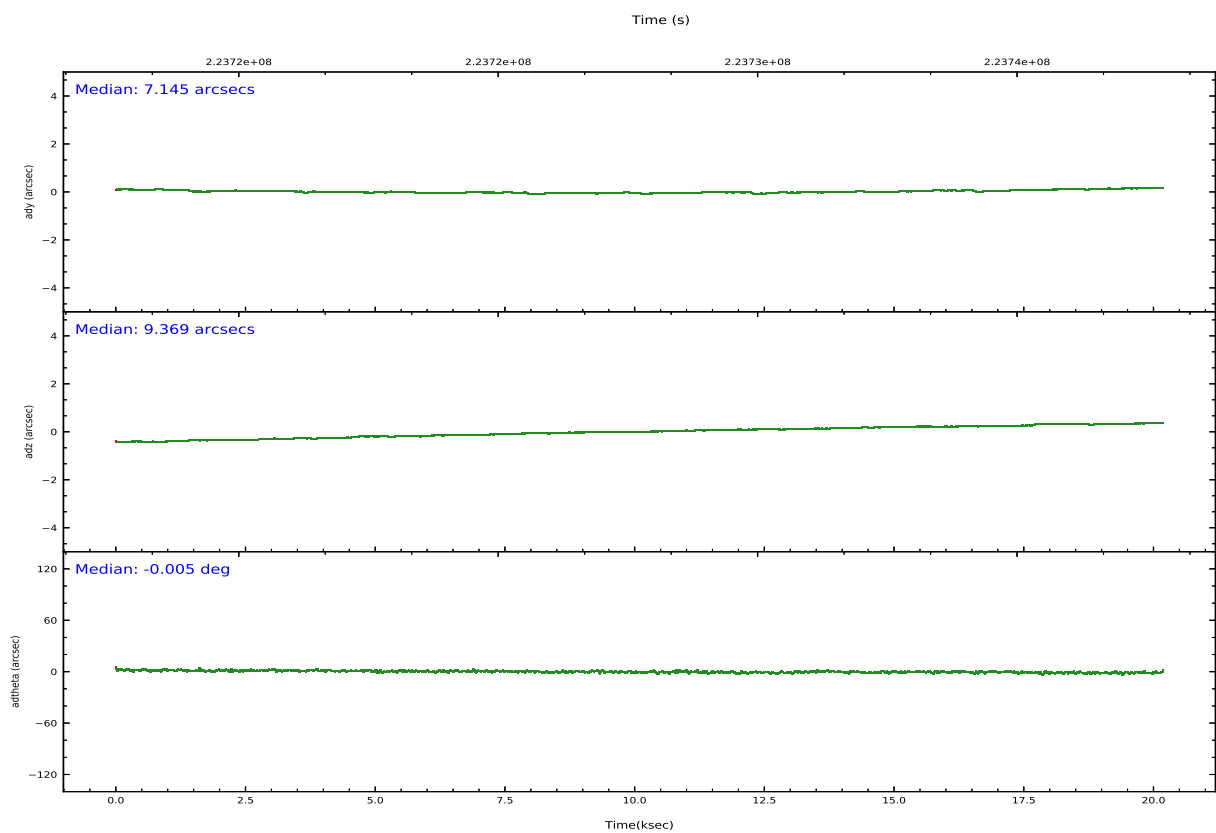
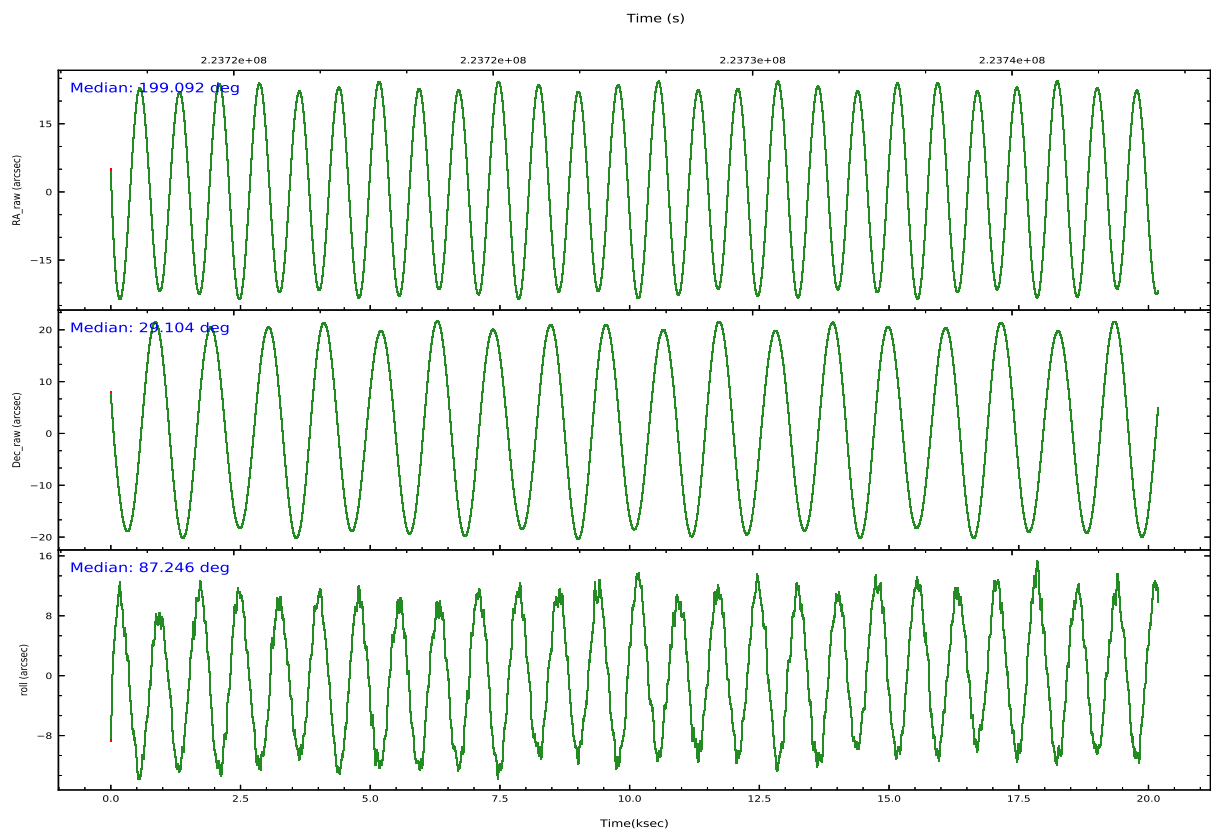
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	199.108896	199.09536952599
[deg] Pointing Dec	29.078913	29.10146100562
[deg] Pointing Roll	87.168577	87.246381523373
[s] Window start time (MET)	218246464.184000	218246464.184000
[s] Window stop time (MET)	225936064.184000	225936064.184000
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	223717816.184000	223716934.05049
Observation start date	2005-02-02T07:49:12	2005-02-02T07:35:34
[s] Observation end time (MET)	223737816.184000	223739236.0015
Observation end date	2005-02-02T13:22:32	2005-02-02T13:47:16

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



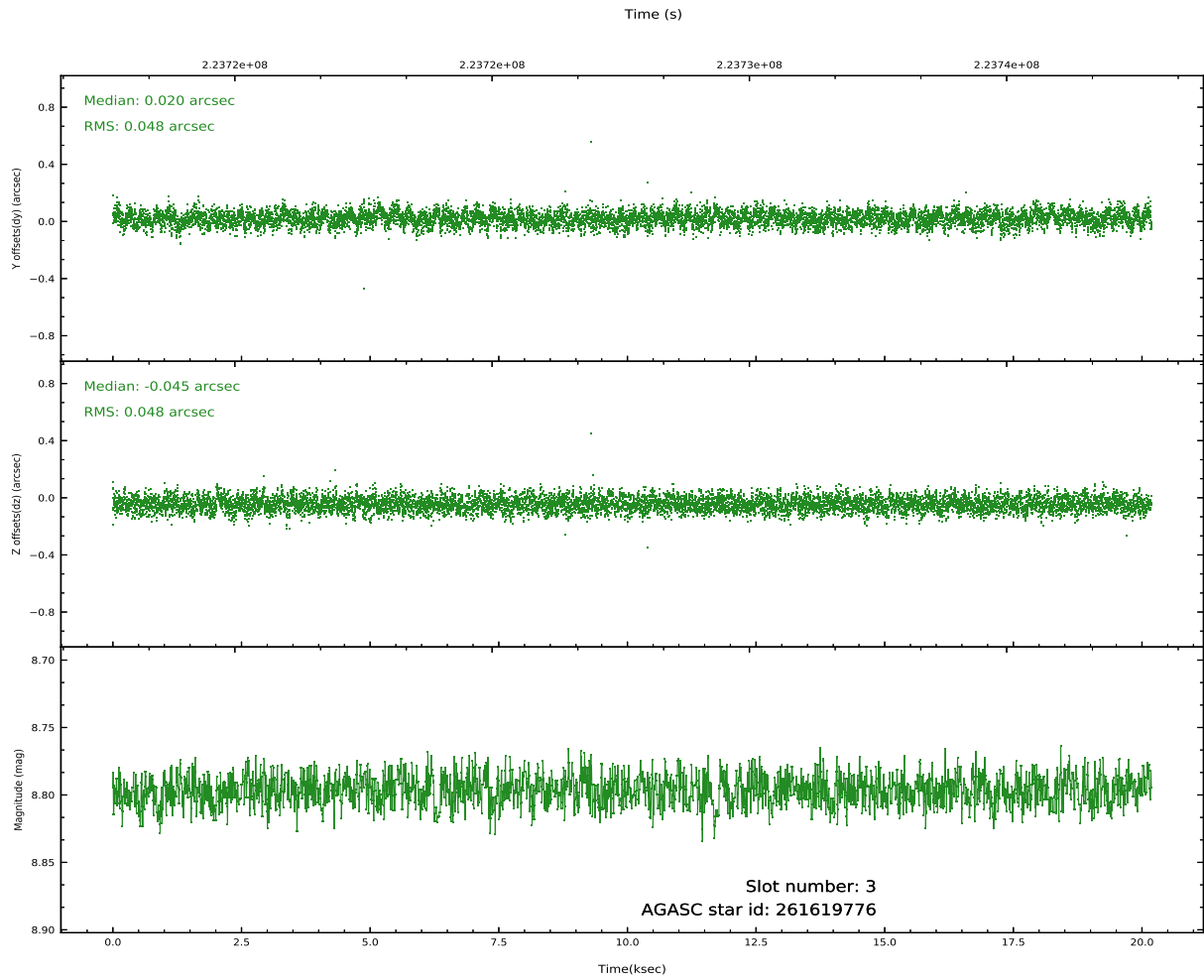
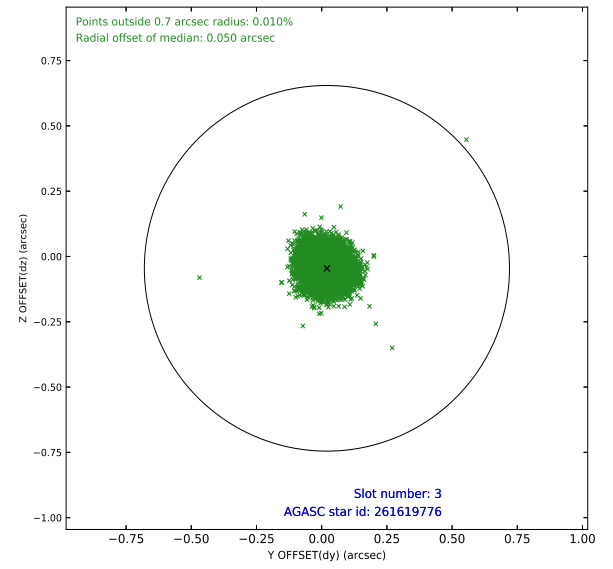
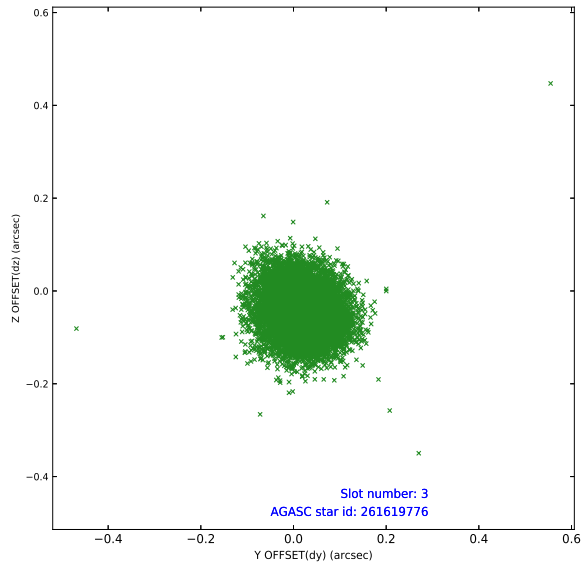


Slot Statistics

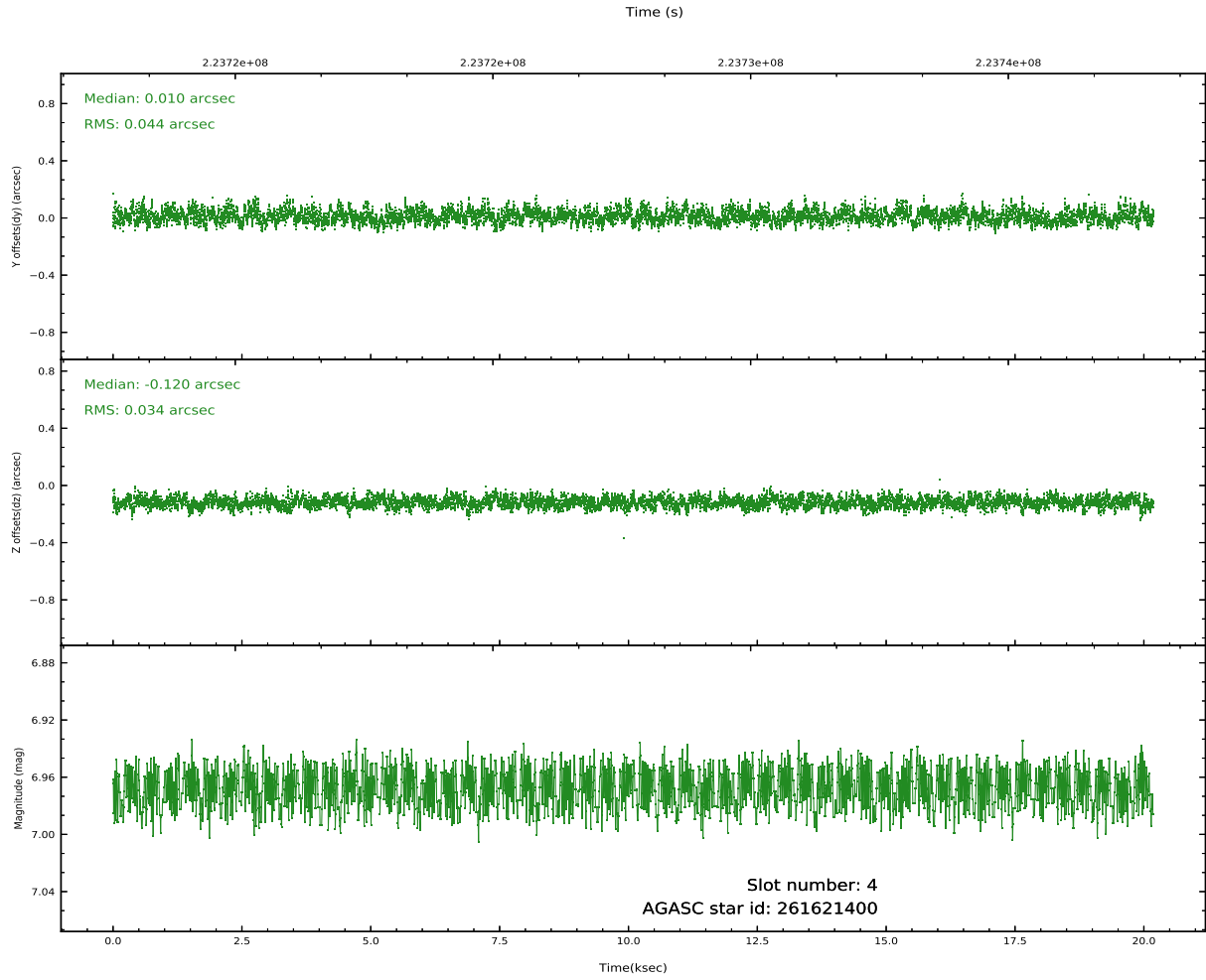
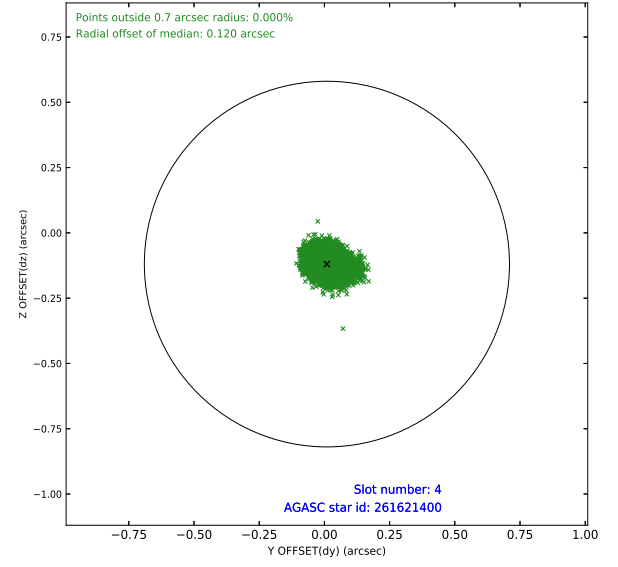
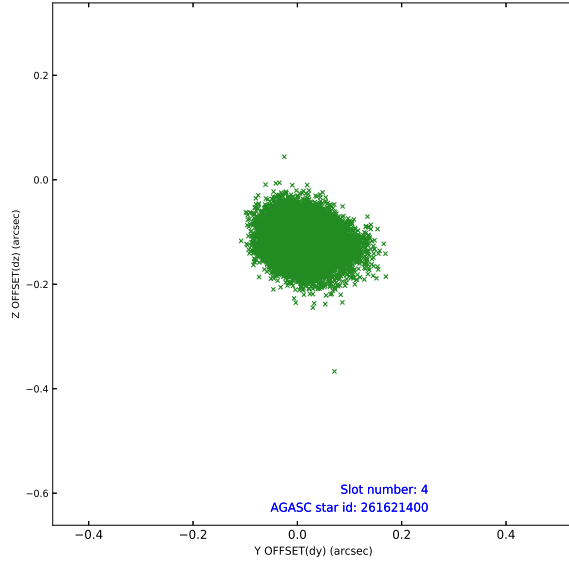
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.01	4924	1.000	0.038	-0.144	0.005	0.010	0.000000	0.000000	-1161.39	-458
1	FID		HRC-S-2	7.00	4924	1.000	0.134	-0.129	0.014	0.023	0.000000	0.000000	1238.15	-450
2	FID		HRC-S-4	6.97	4924	1.000	0.231	-0.032	0.013	0.021	0.000000	0.000000	1237.28	574
3	GUIDE	used	261619776	8.80	9844	1.000	0.020	-0.045	0.072	0.116	198.654383	29.401174	1091.22	1480
4	GUIDE	used	261621400	6.97	9848	1.000	0.010	-0.120	0.059	0.093	198.901600	28.741982	-1242.72	593
5	GUIDE	used	261624456	7.30	9842	1.000	0.035	0.130	0.056	0.089	199.758056	28.567828	-1729.75	-2140
6	GUIDE	used	261626352	8.62	9845	1.000	0.061	0.046	0.059	0.094	198.417097	29.781420	2426.15	2284
7	GUIDE	used	261623040	9.14	9835	1.000	-0.128	-0.014	0.079	0.131	198.792686	29.757643	2393.33	1108

## 2.4 Star Slots

### 2.4.1 Slot 3

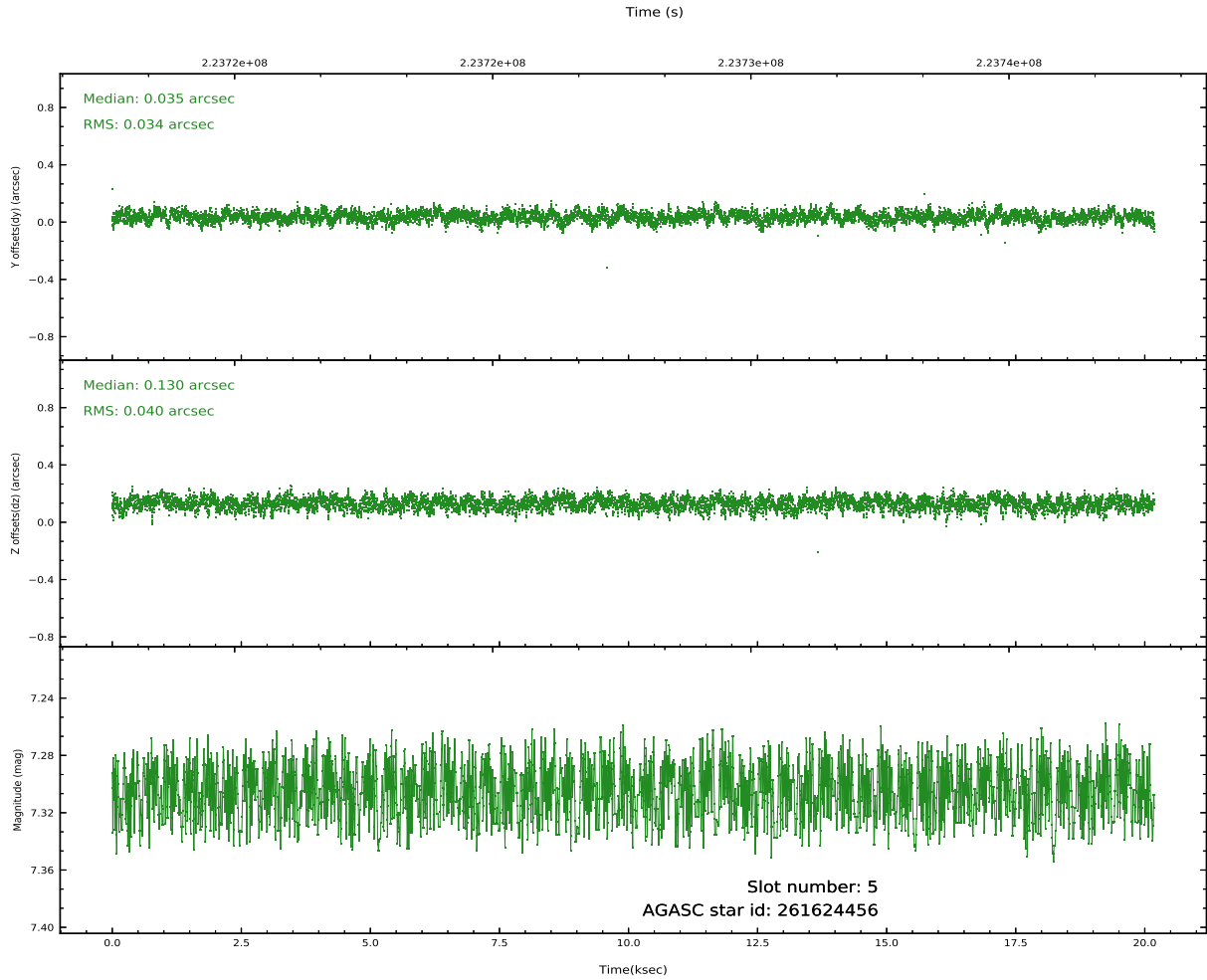
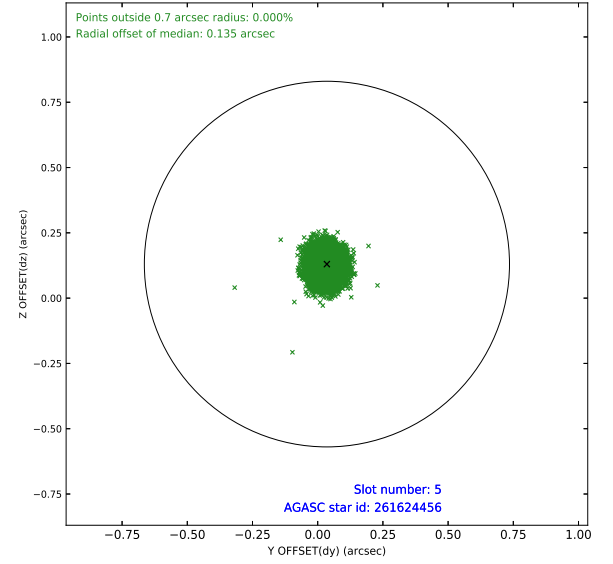
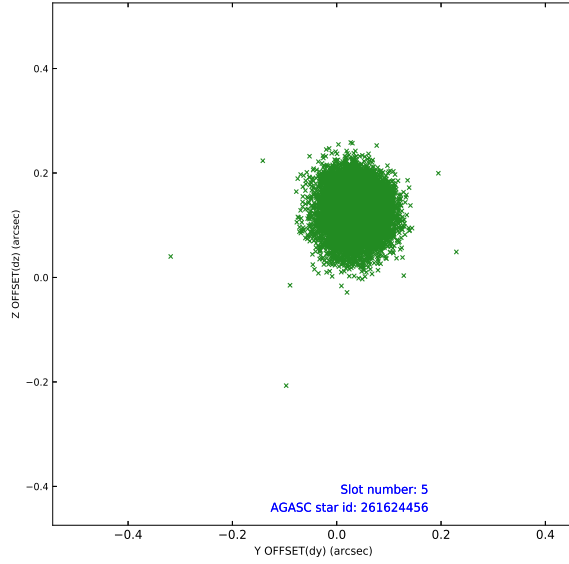


## 2.4.2 Slot 4

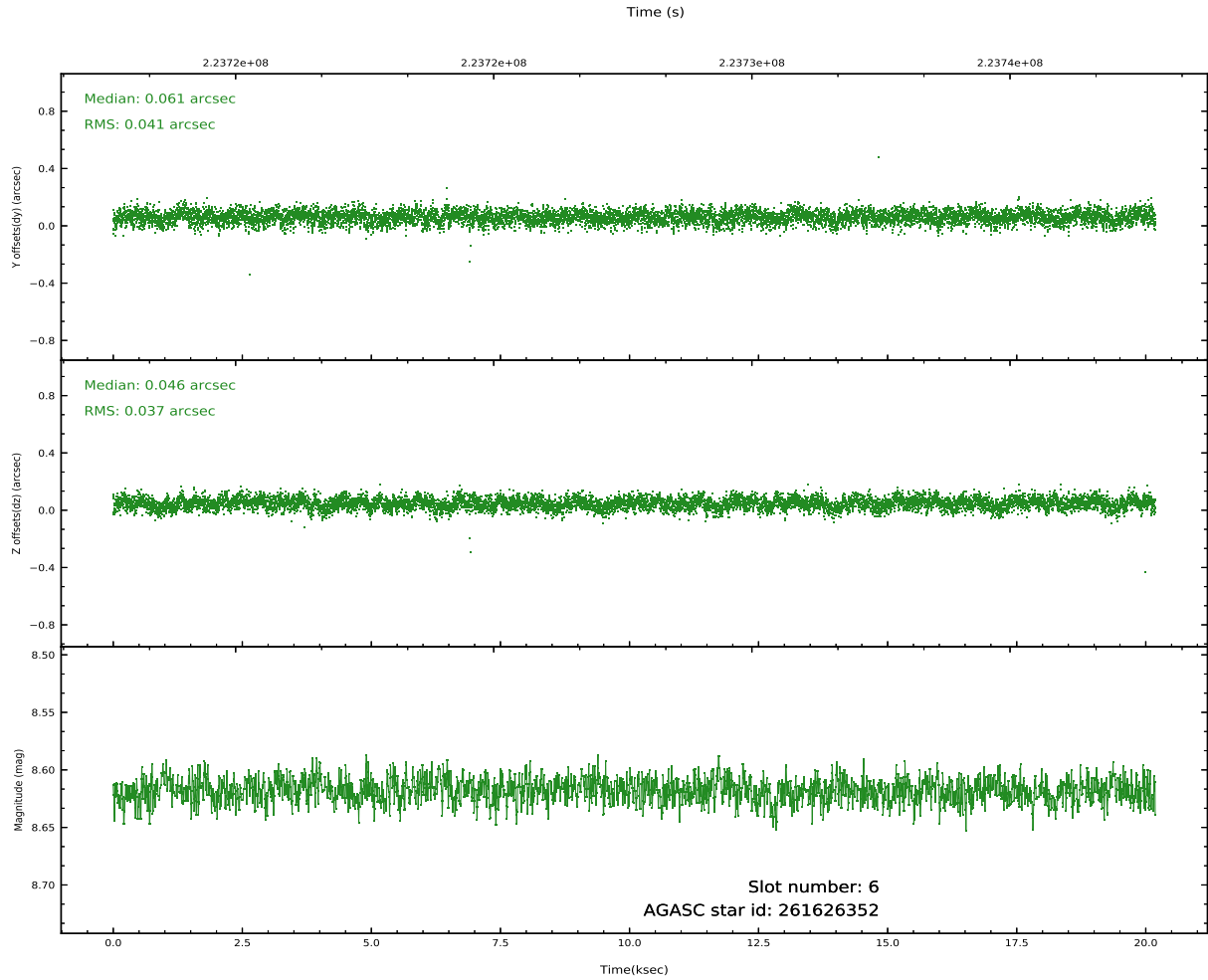
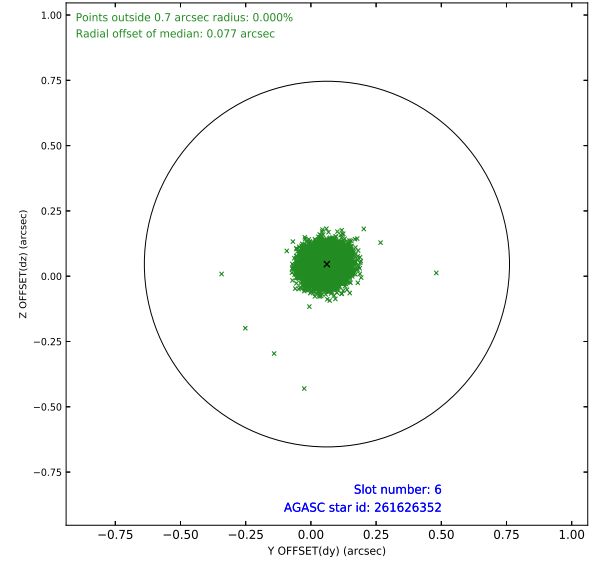
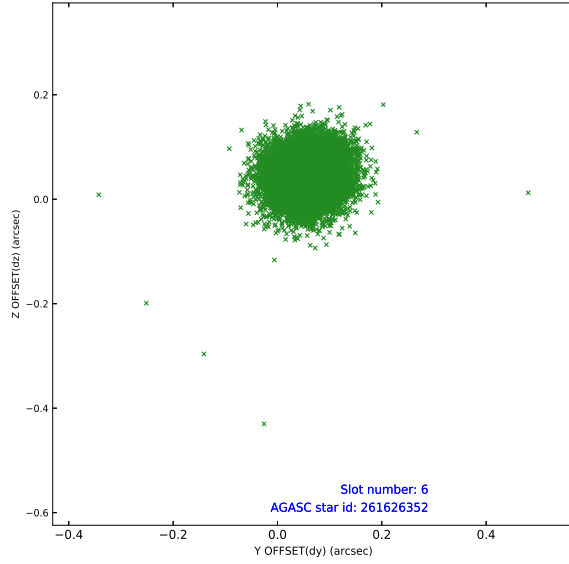




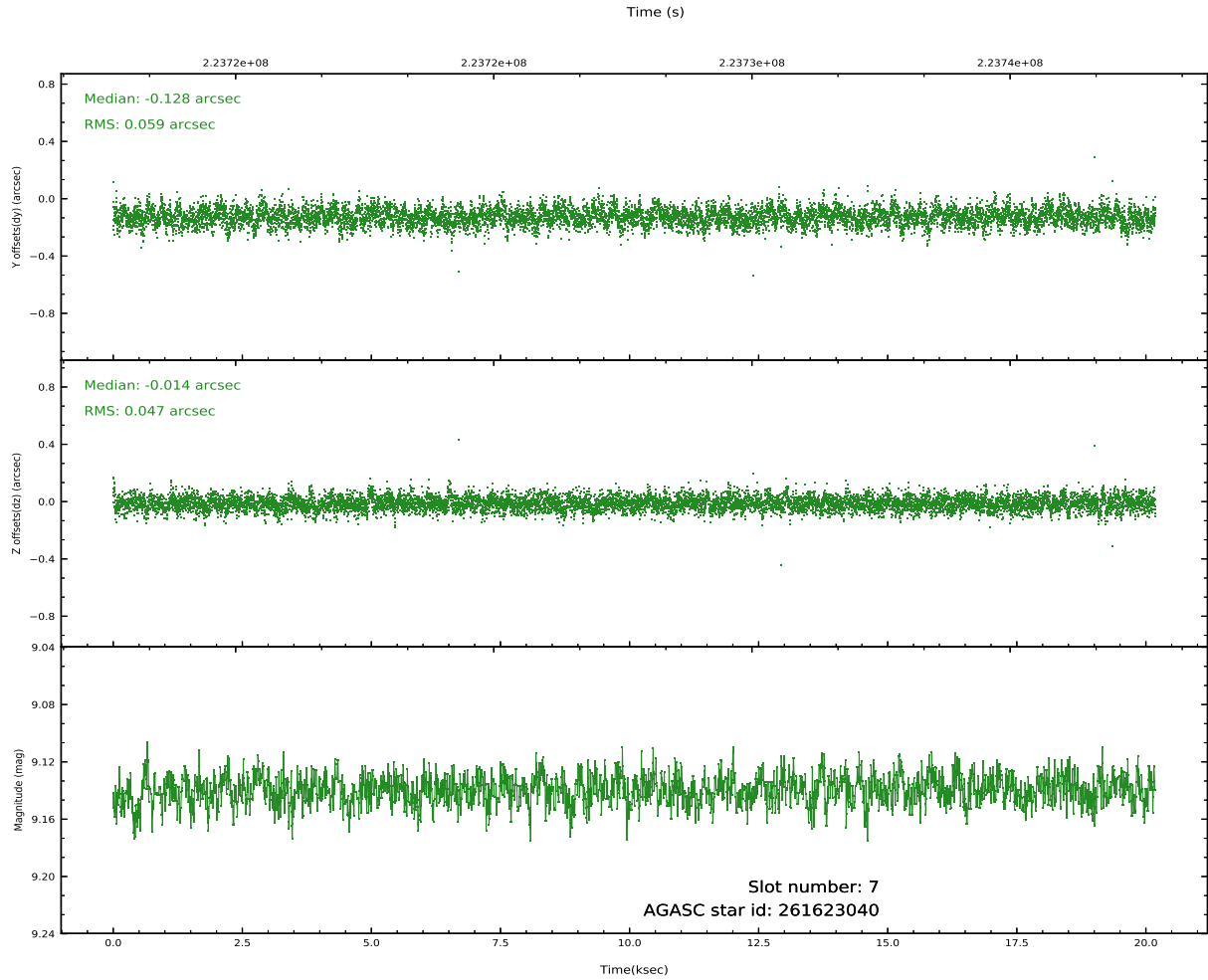
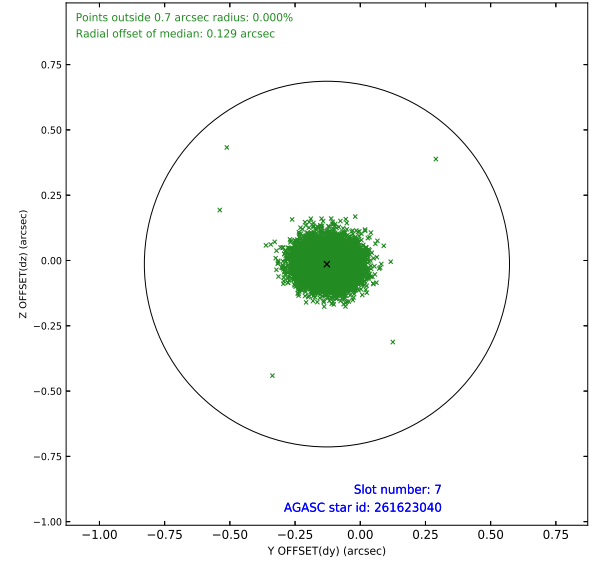
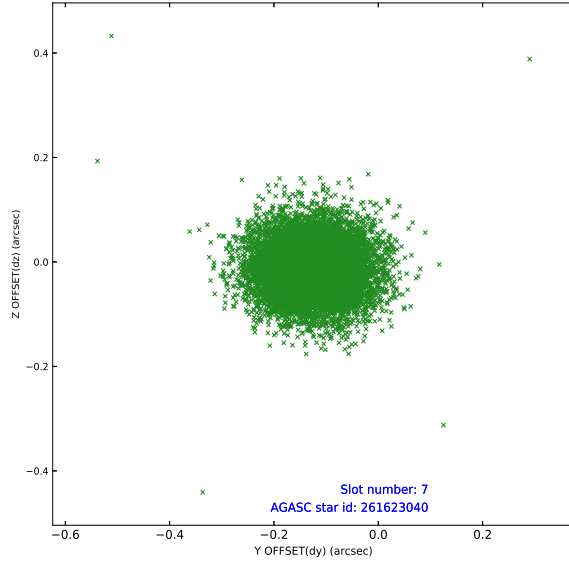
### 2.4.3 Slot 5



## 2.4.4 Slot 6

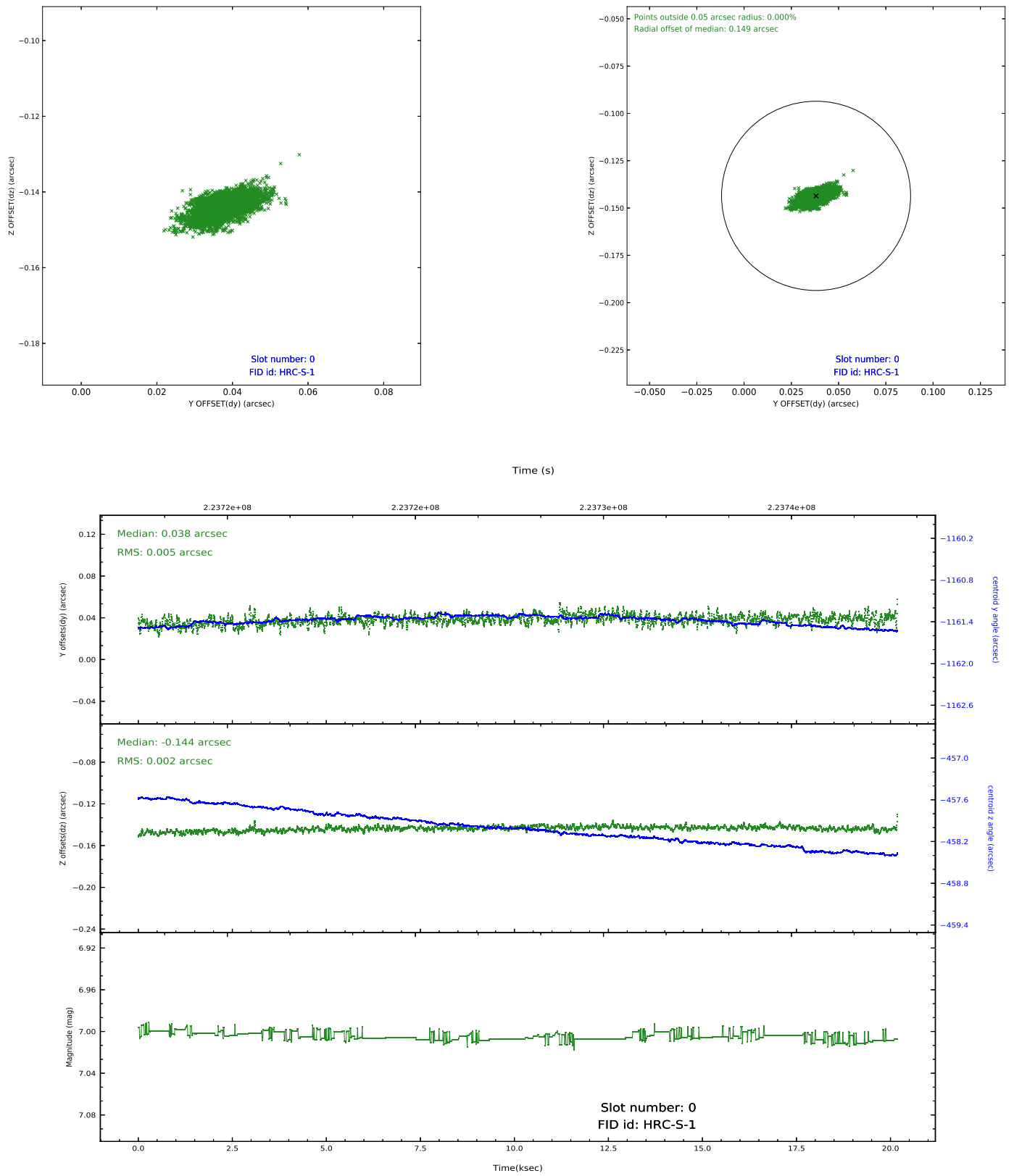


## 2.4.5 Slot 7

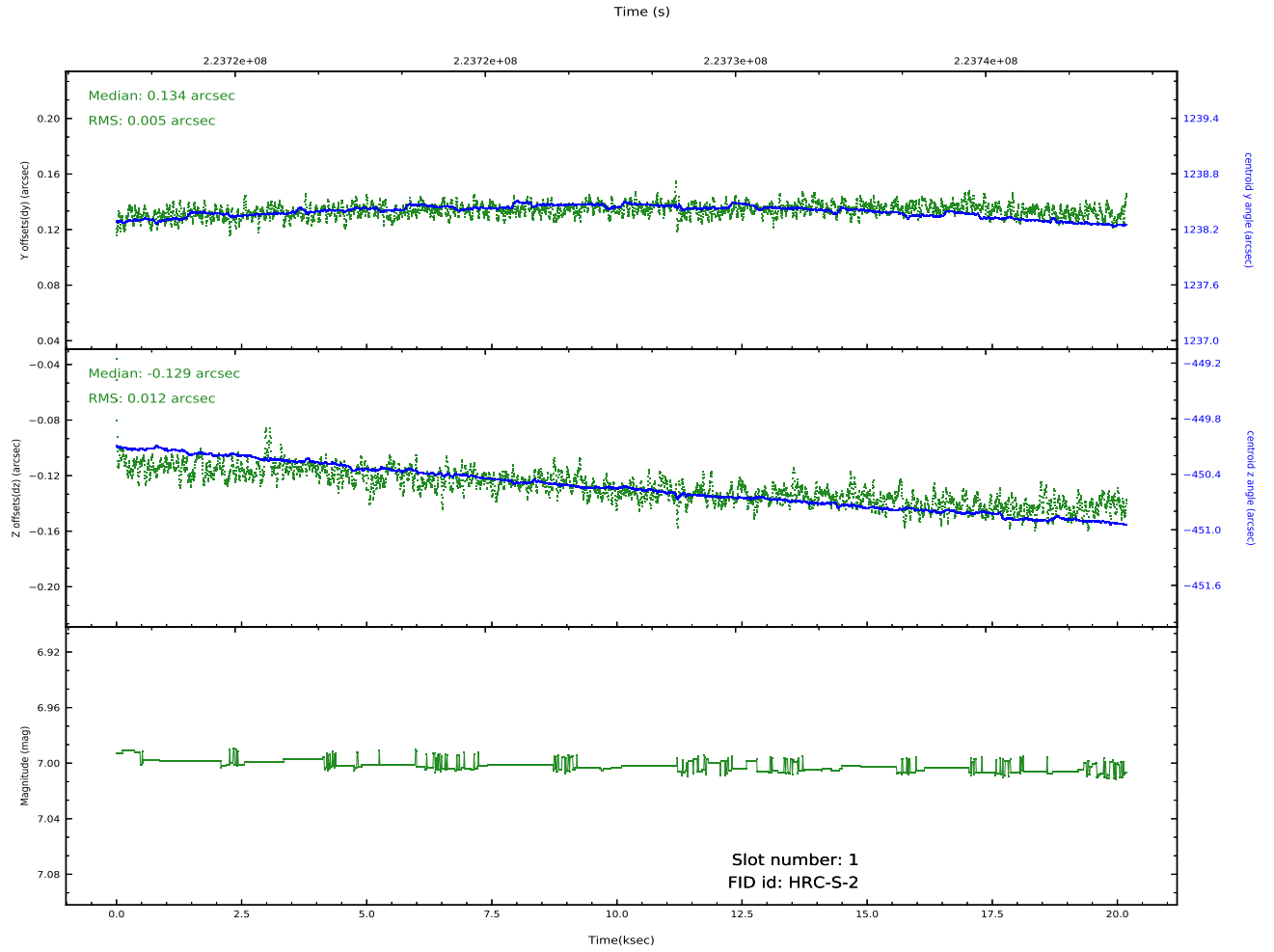
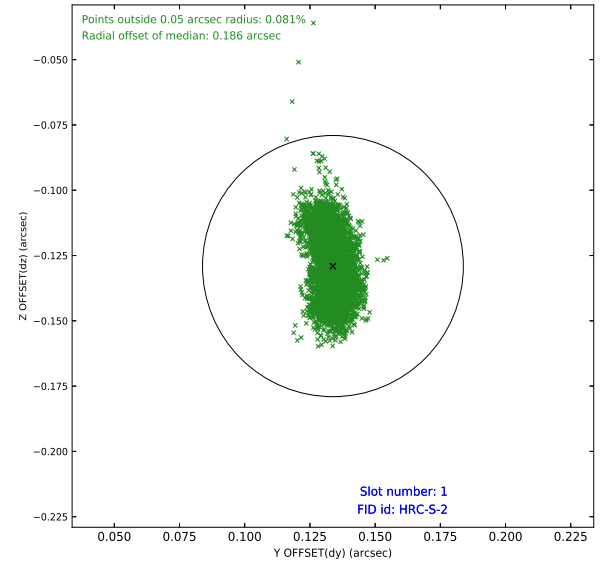
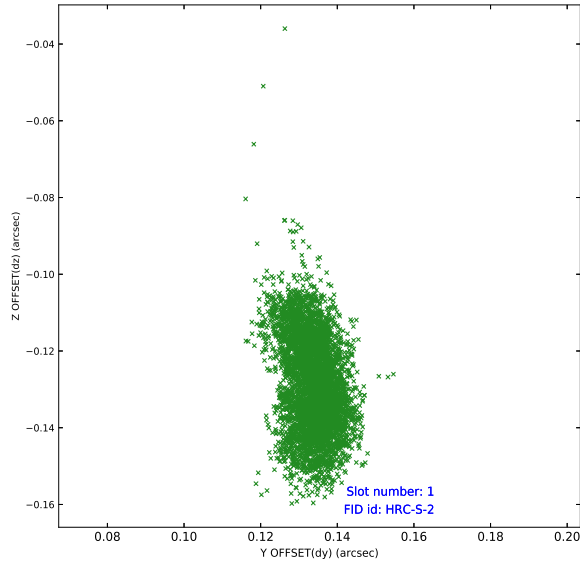


## 2.5 FID Slots

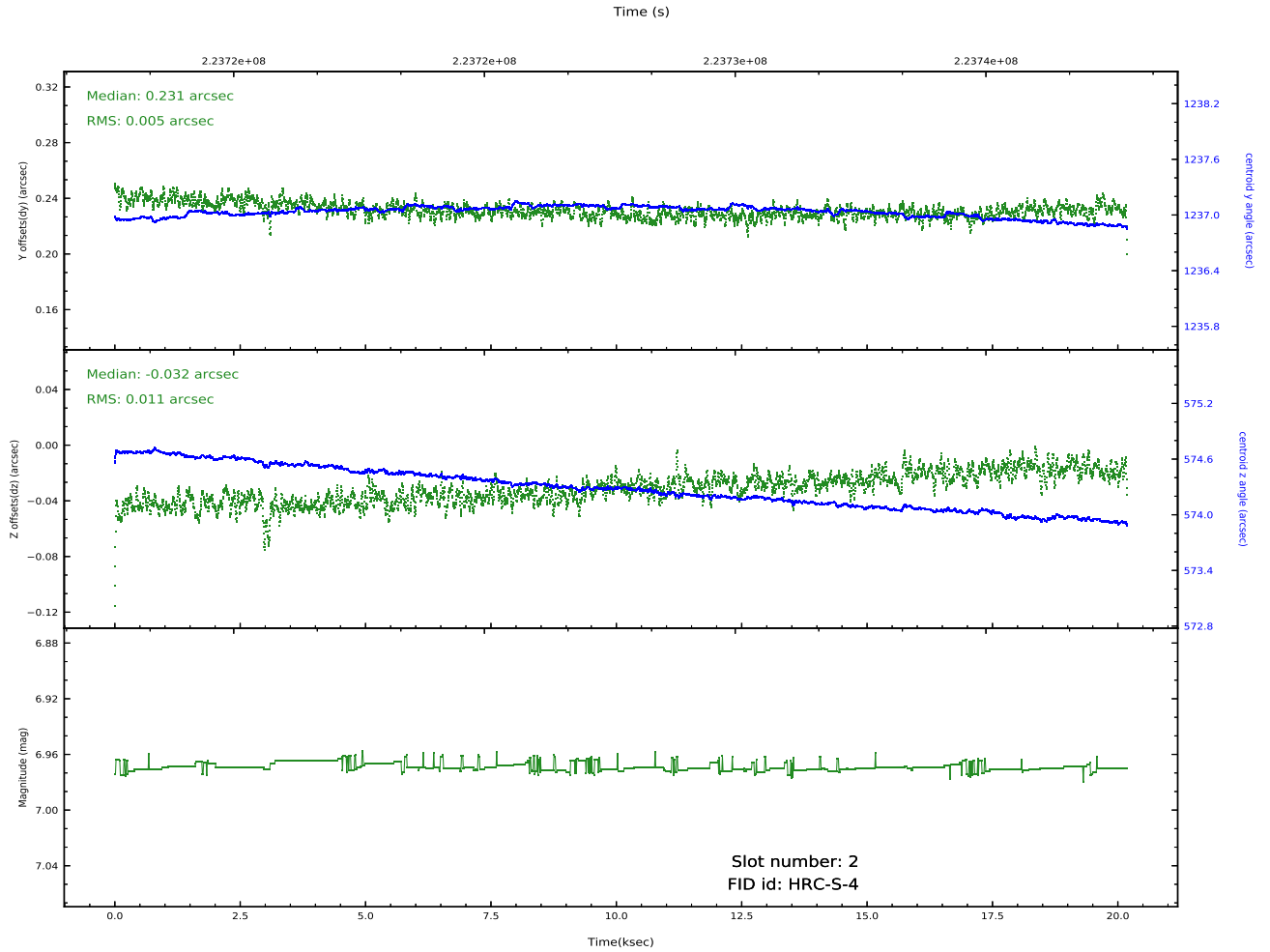
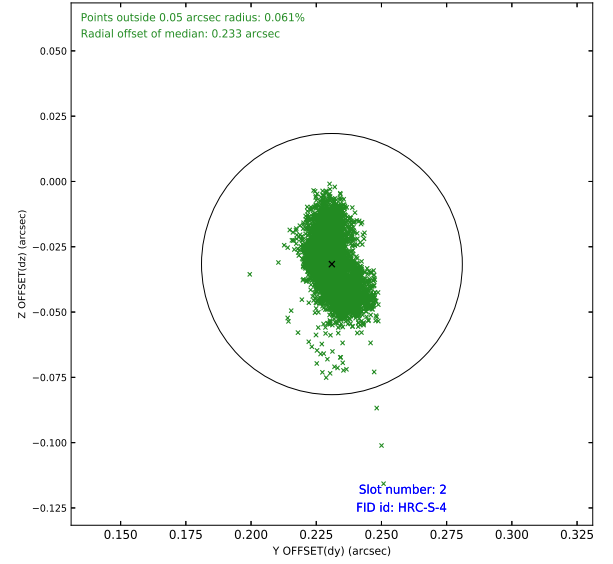
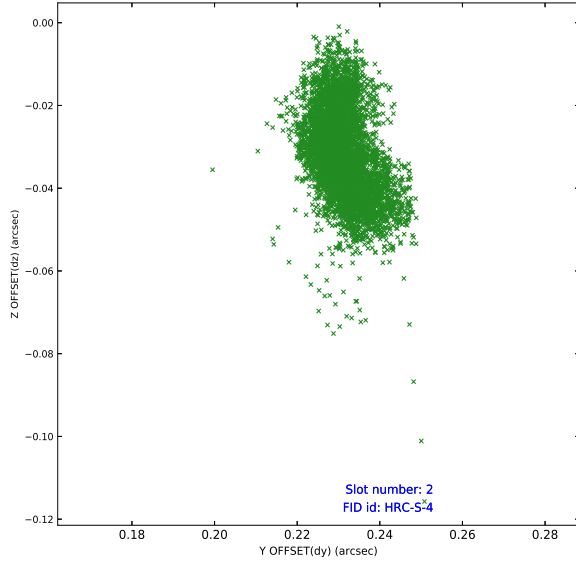
### 2.5.1 Slot 0



## 2.5.2 Slot 1

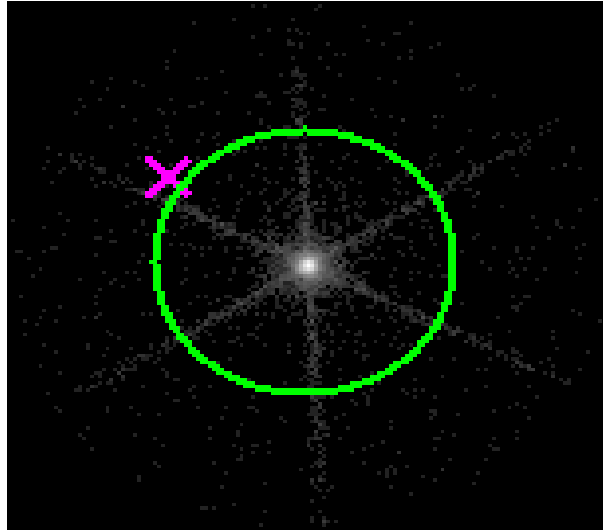


### 2.5.3 Slot 2

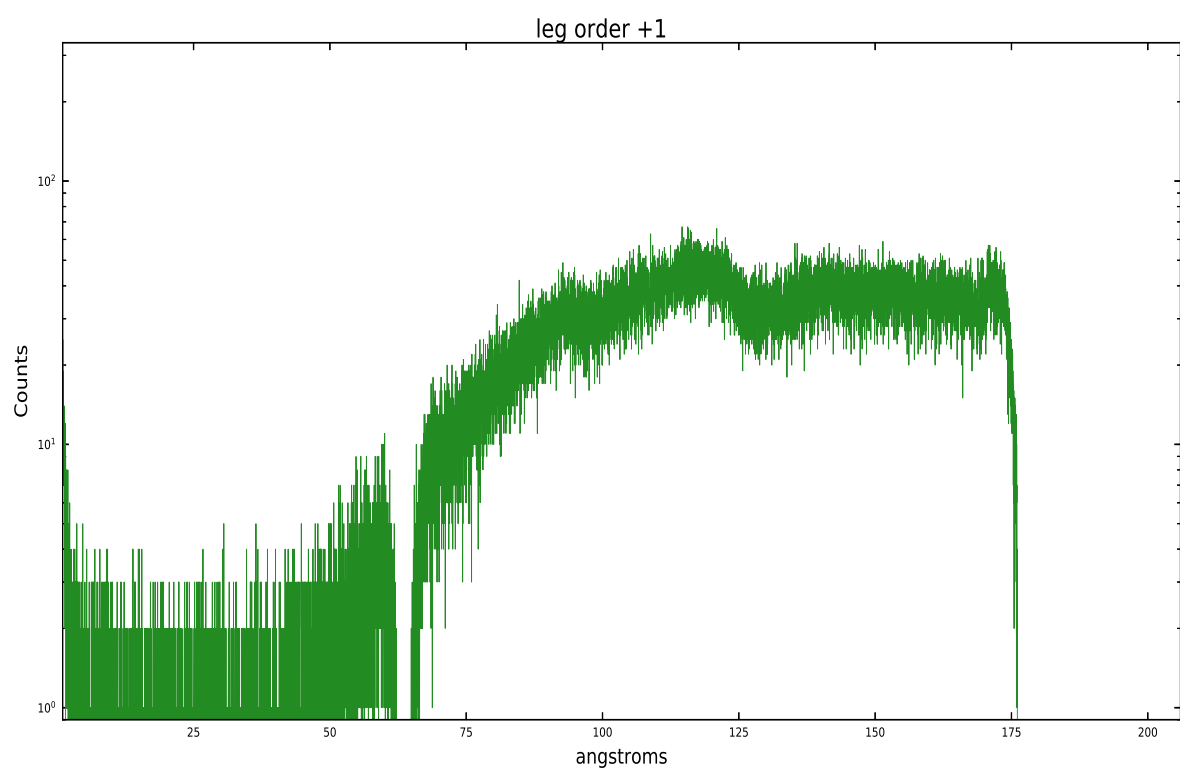
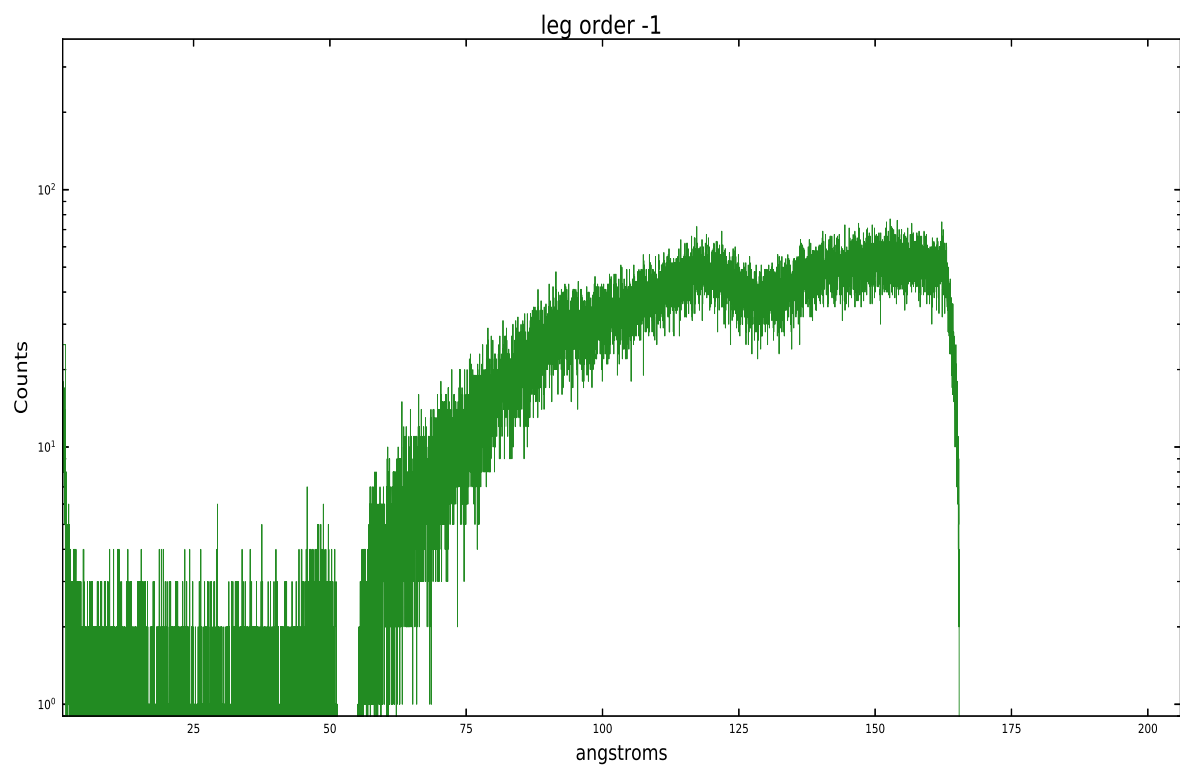


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order





## **A Summary**

### **A.1 Status**

V&V Scientist	Melania Nynka
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.18558

### **A.2 Comments**