

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5443 - L2 Version 4  
Chandra X-Ray Center

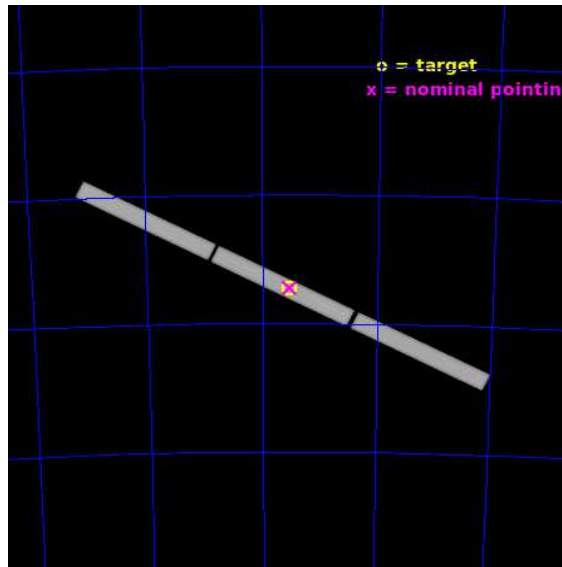
L2 Processing Date : Oct 8 2020

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# 1 Front

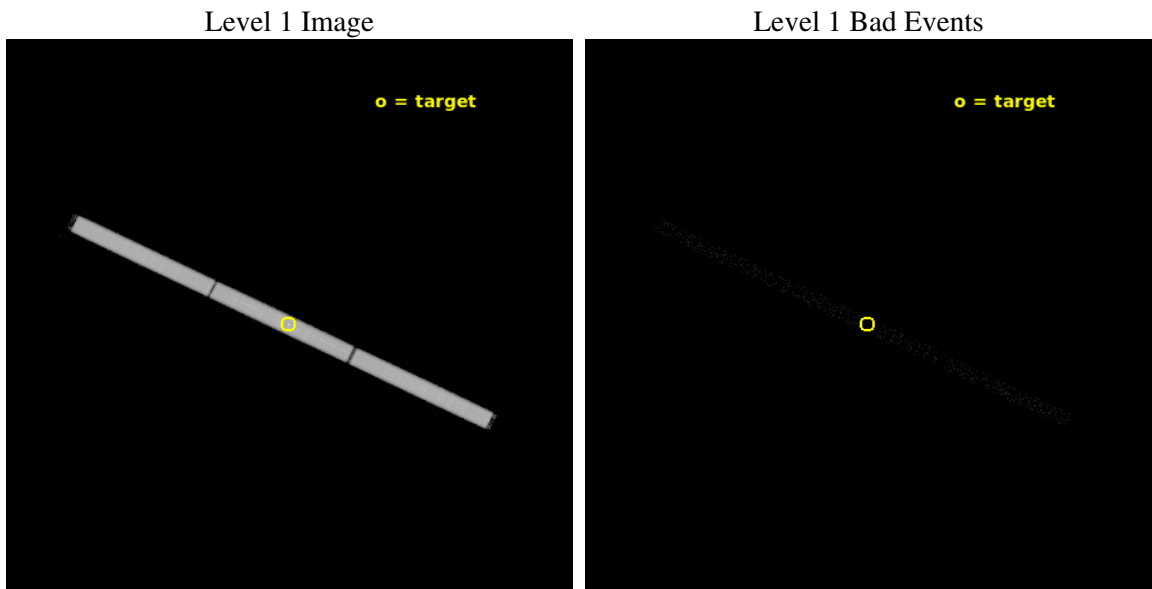
seq_num	300159	Sequence number
obs_id	5443	Observation id
title	Testing Accretion Scenarios at the Eddington Limit	Proposal title
observer	Dr. Vadim Burwitz	Principal investigator
object	RXJ0513.9-6951	Source name
ra_targ	78.461667	Observer's specified target RA [deg]
dec_targ	-69.863056	Observer's specified target Dec [deg]
ra_nom	78.450991572969	Nominal RA [deg]
dec_nom	-69.861666821488	Nominal Dec [deg]
roll_nom	206.29564093818	Nominal Roll [deg]
revision	4	Processing version of data
ontime	22651.219781101	[s]
livetime	22480.219740379	Ontime multiplied by DTCOR
l2events	1386491	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	2	Obi number	sched_exp_time	22500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	22651.219781101	[s]
caldbver	4.9.2	&#160	l1events	1950970	Number of level 1 events
date	2020-10-08T07:57:55	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32670.85, 32728.37)	src1a sky pixel position

### 2.1.3 Events

Level 1 Events

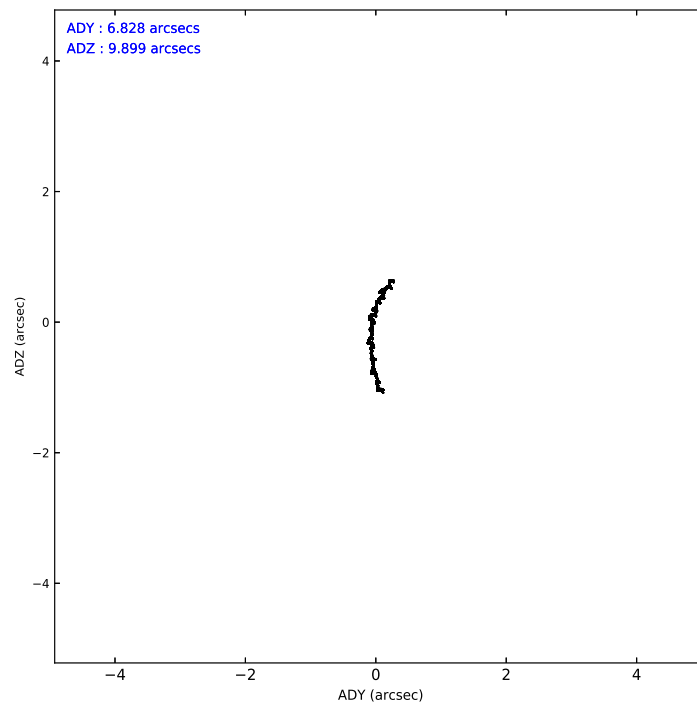
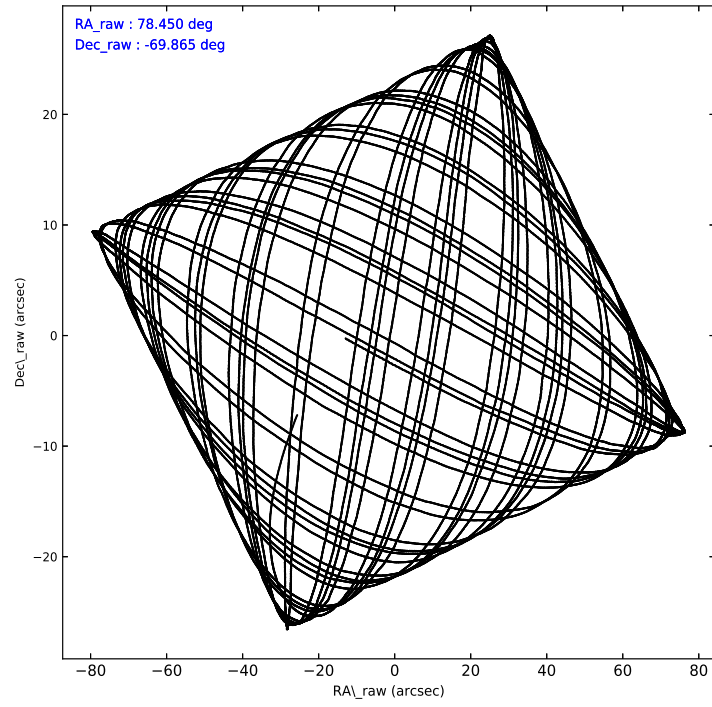
	segment 1	segment 2	segment 3
level 1 events	649571	652203	649196
rejected events	23378	22599	23135
rejected %	3%	3%	3%

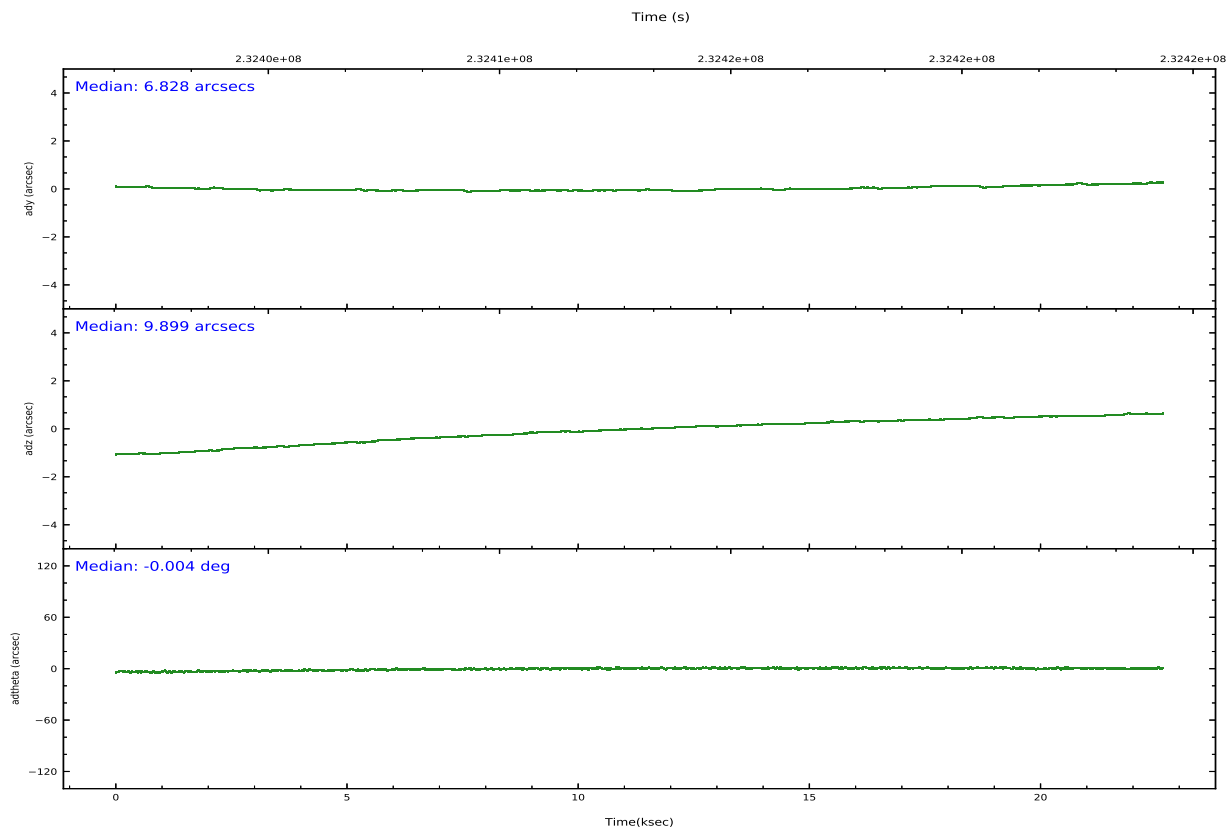
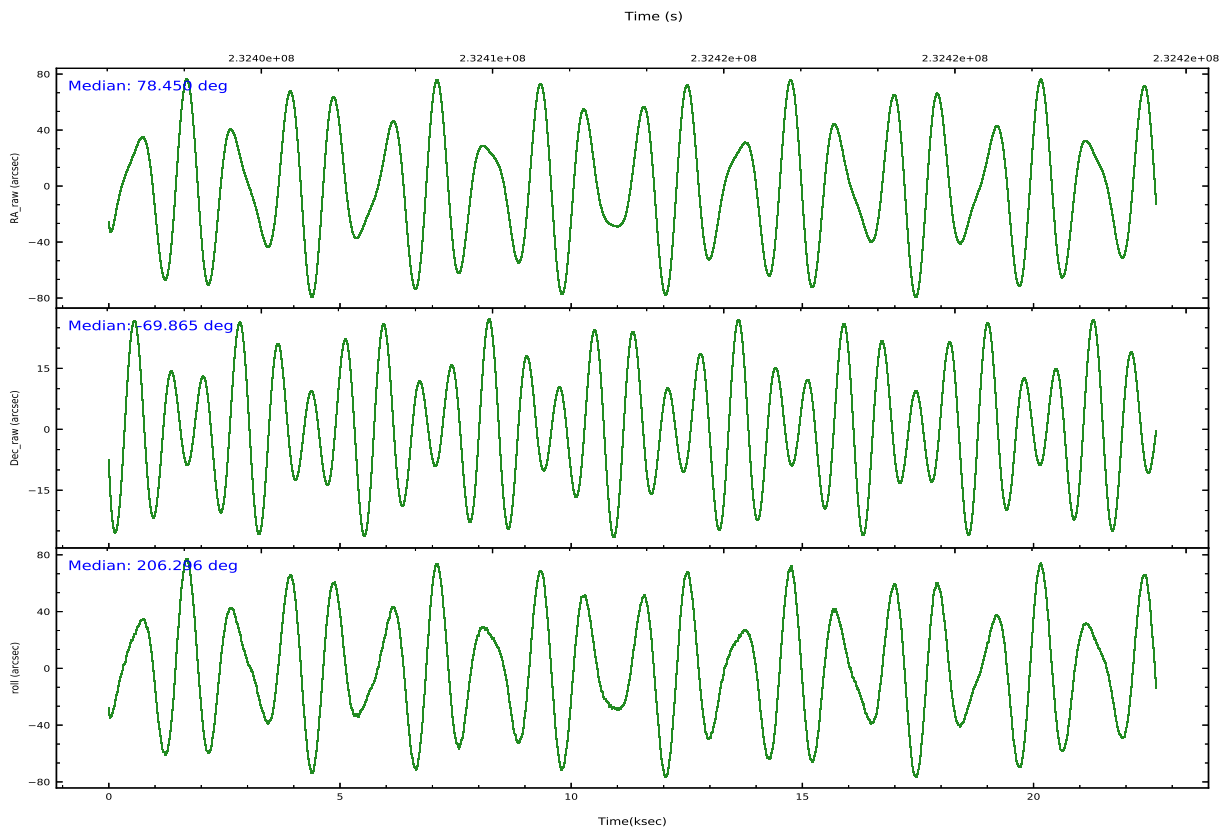
## 2.2 Compared Parameters

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	78.491881	78.450991572969
[deg] Pointing Dec	-69.840441	-69.861666821488
[deg] Pointing Roll	206.274548	206.29564093818
[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)	232401852.184000	232400844.63205
Observation start date	2005-05-13T20:03:08	2005-05-13T19:47:24
[s] Observation end time (MET)	232424352.184000	232425122.27065
Observation end date	2005-05-14T02:18:08	2005-05-14T02:32:02

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

## 2.3 Aspect



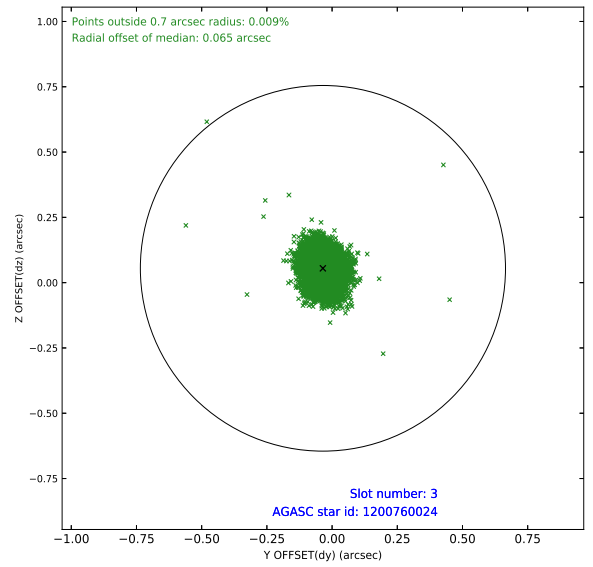
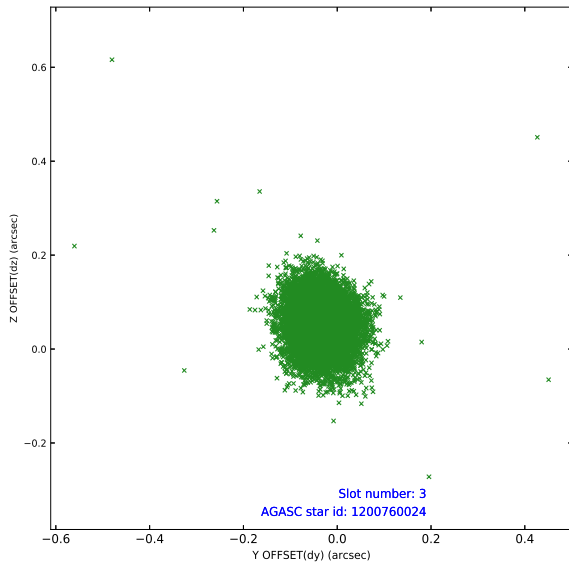


### Slot Statistics

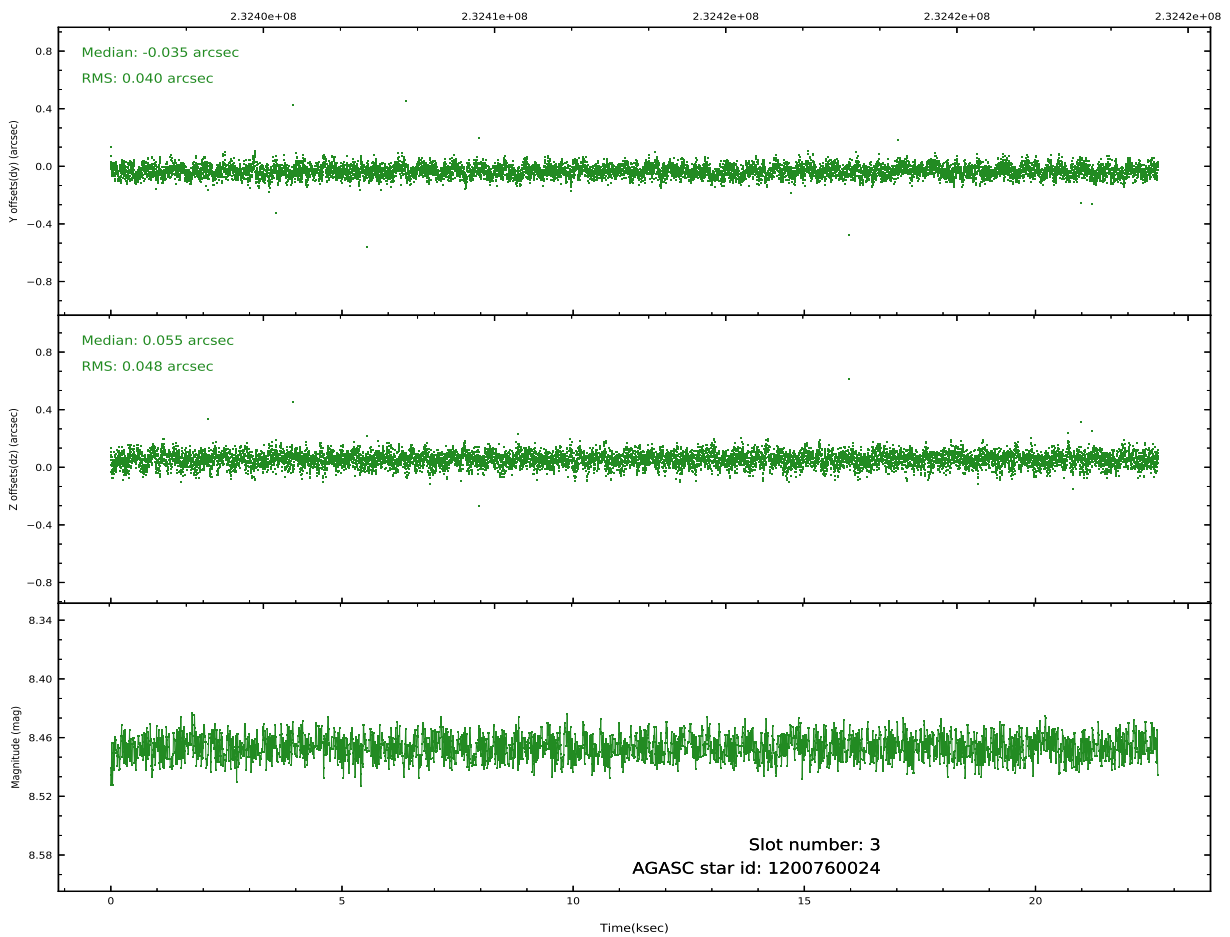
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		HRC-S-1	7.00	5525	1.000	0.091	-0.190	0.010	0.026	0.000000	0.000000	-1161.02	-458
1	FID		HRC-S-2	6.99	5525	1.000	0.202	-0.114	0.006	0.011	0.000000	0.000000	1238.56	-451
2	FID		HRC-S-3	7.01	5525	1.000	0.097	0.003	0.011	0.031	0.000000	0.000000	-1163.52	571
3	GUIDE	used	1200760024	8.47	11045	1.000	-0.035	0.055	0.065	0.106	77.625244	-69.320410	163.35	-2159
4	GUIDE	used	1201280984	7.01	11051	1.000	-0.071	-0.050	0.053	0.084	77.867422	-69.546090	237.77	-1294
5	GUIDE	used	1201406760	9.30	11042	1.000	-0.063	0.086	0.107	0.171	78.725555	-70.284883	454.15	1560
6	GUIDE	used	1201409432	9.03	11046	1.000	0.055	-0.061	0.085	0.138	79.317334	-70.259796	-228.56	1803
7	GUIDE	used	1201279208	9.19	11042	1.000	0.114	-0.030	0.107	0.171	76.214504	-69.704761	2357.56	-1648

## 2.4 Star Slots

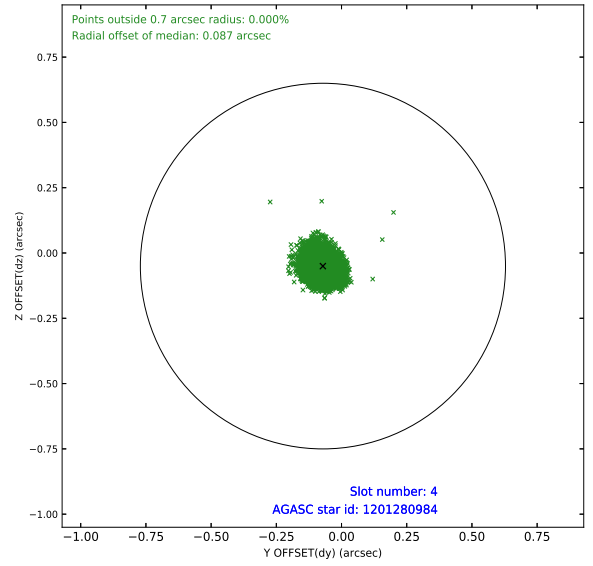
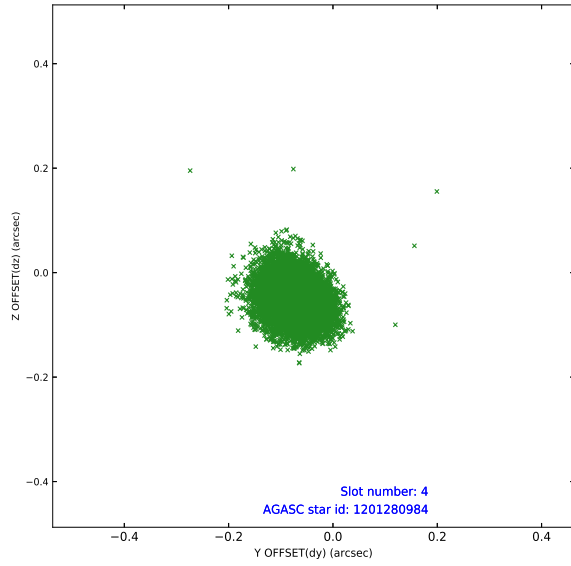
### 2.4.1 Slot 3



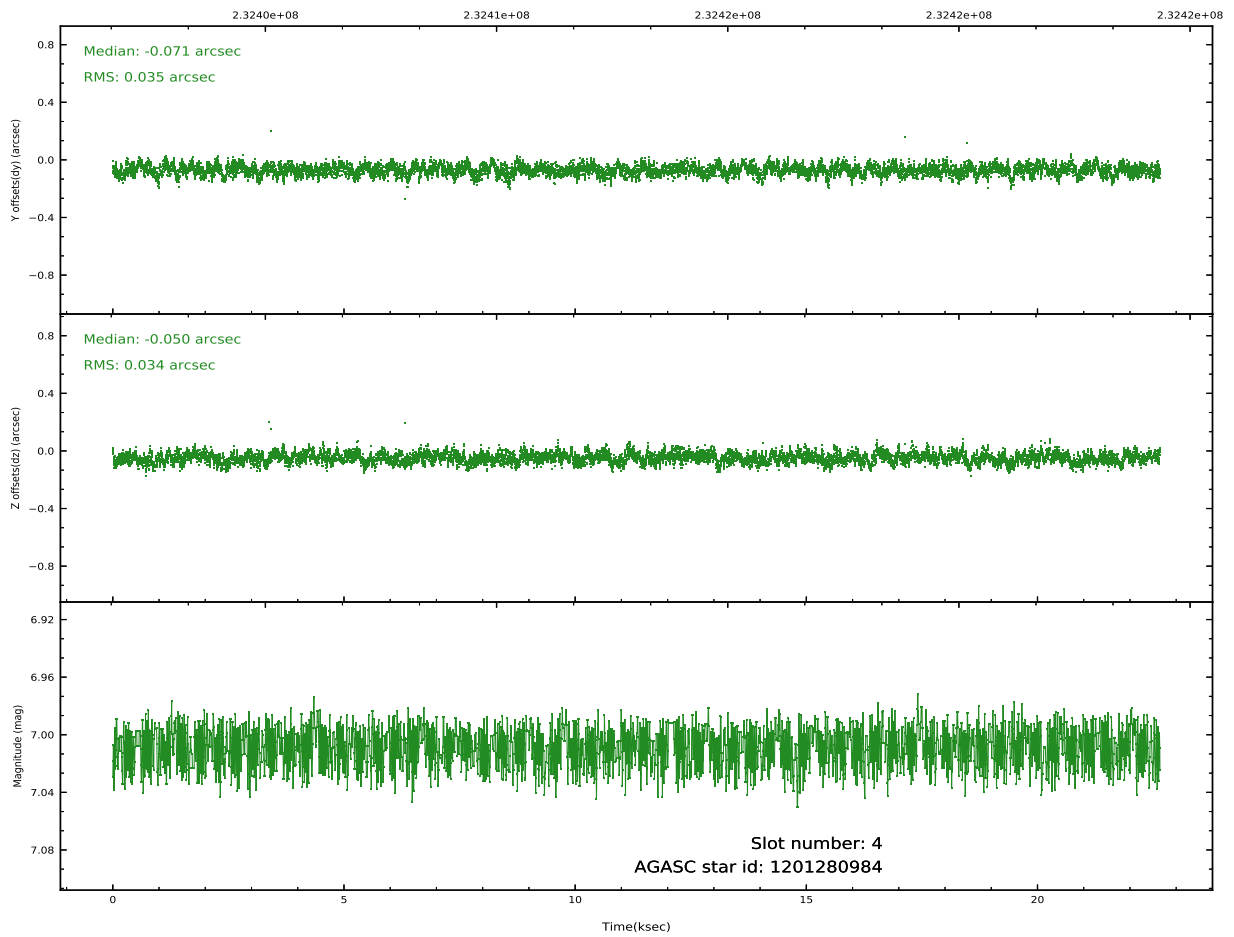
Time (s)



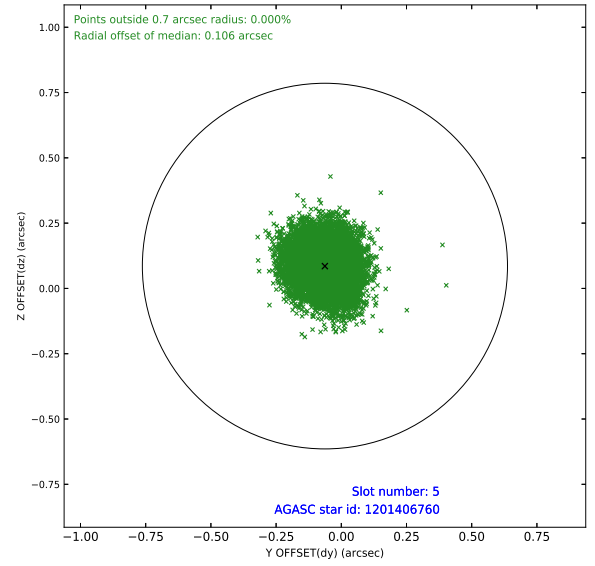
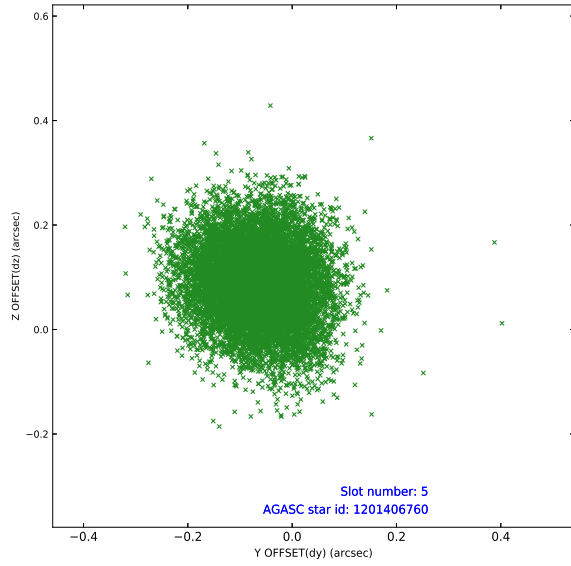
## 2.4.2 Slot 4



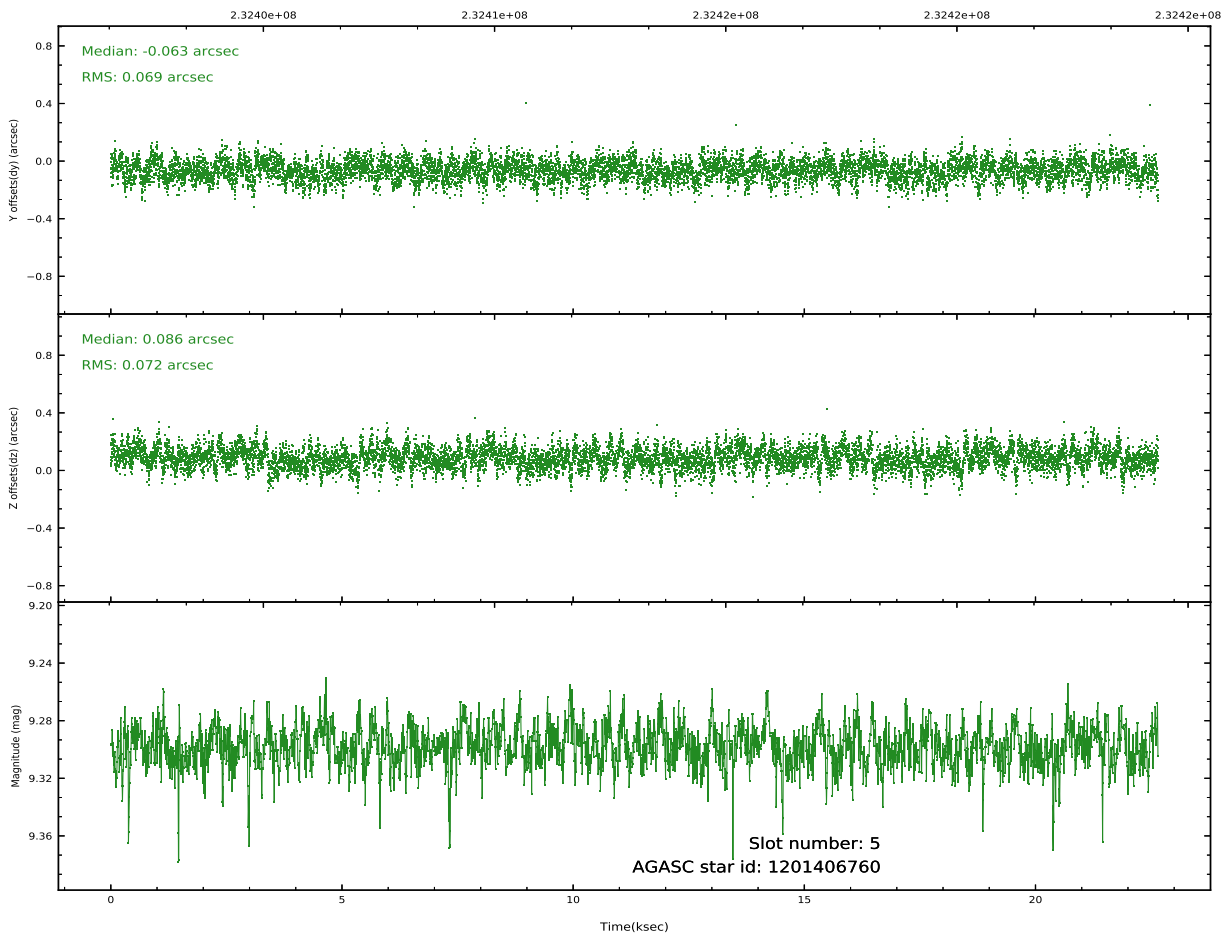
Time (s)



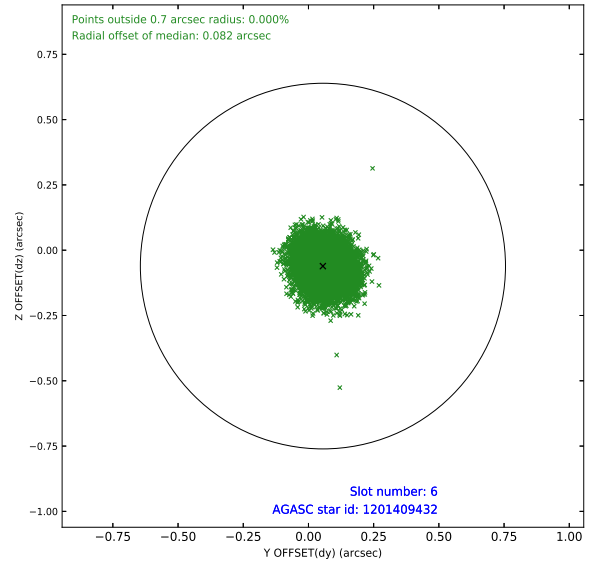
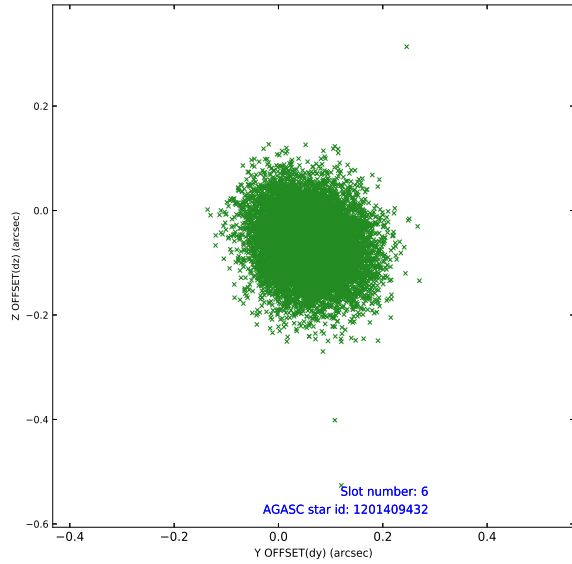
### 2.4.3 Slot 5



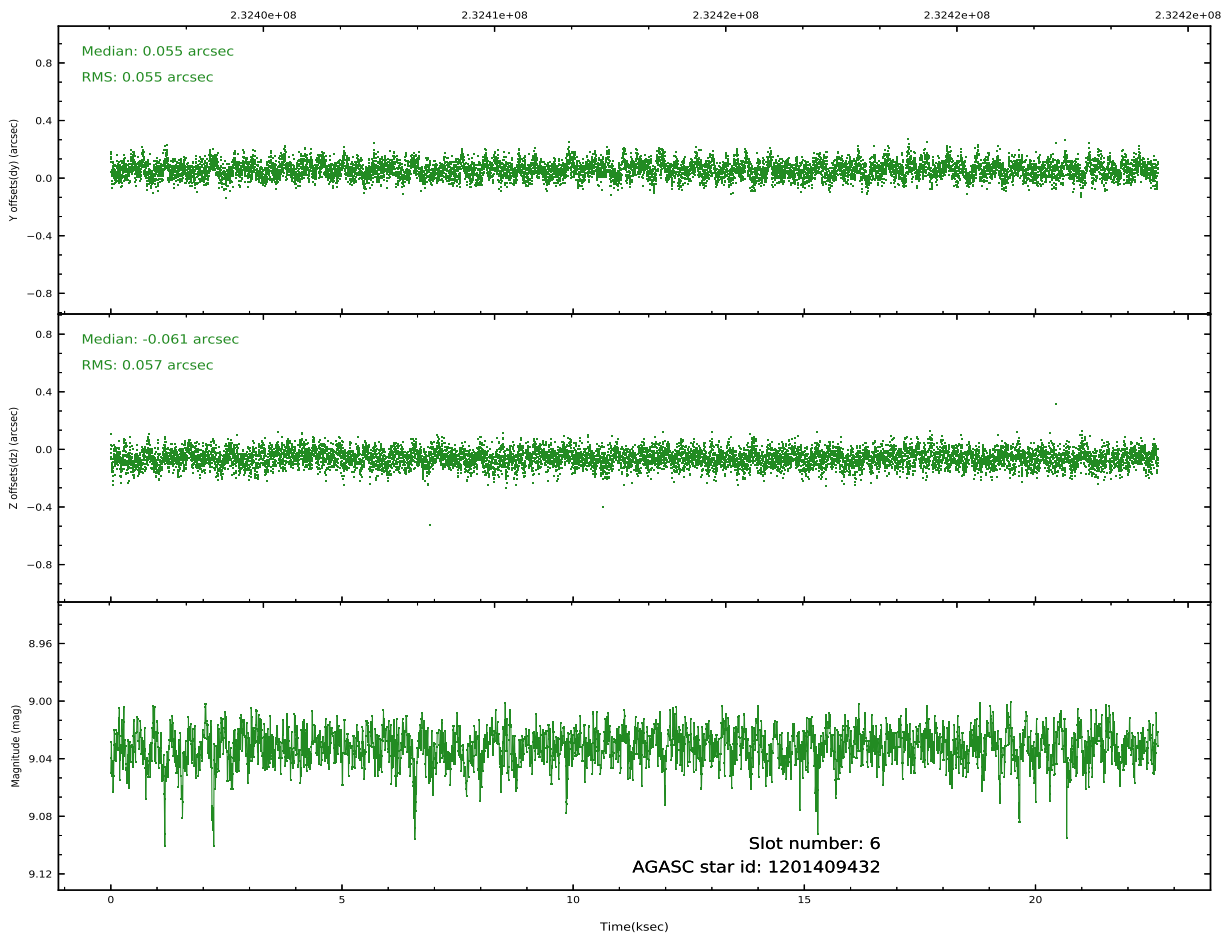
Time (s)



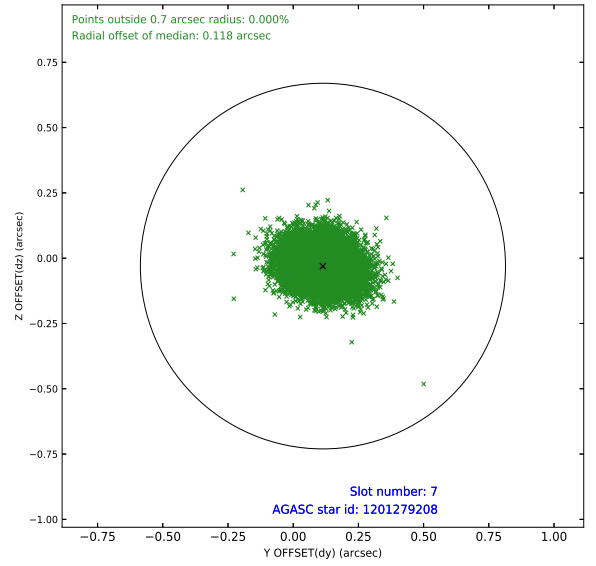
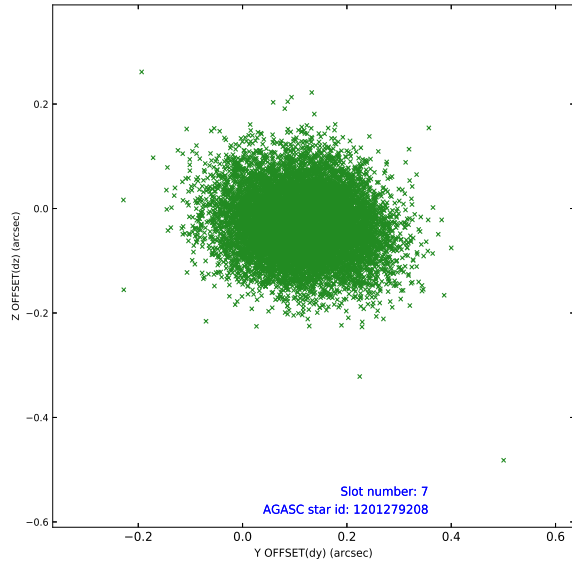
## 2.4.4 Slot 6



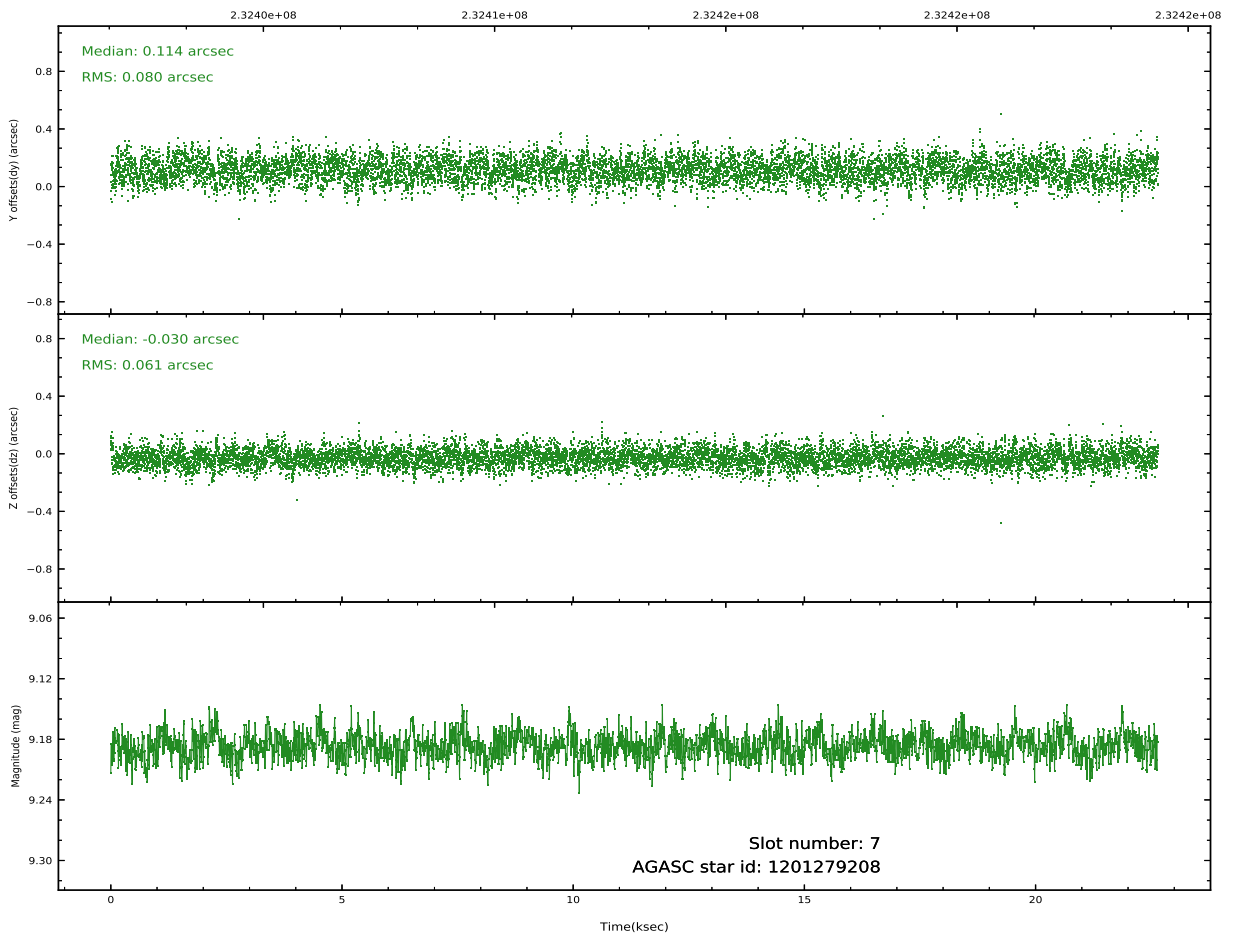
Time (s)



## 2.4.5 Slot 7

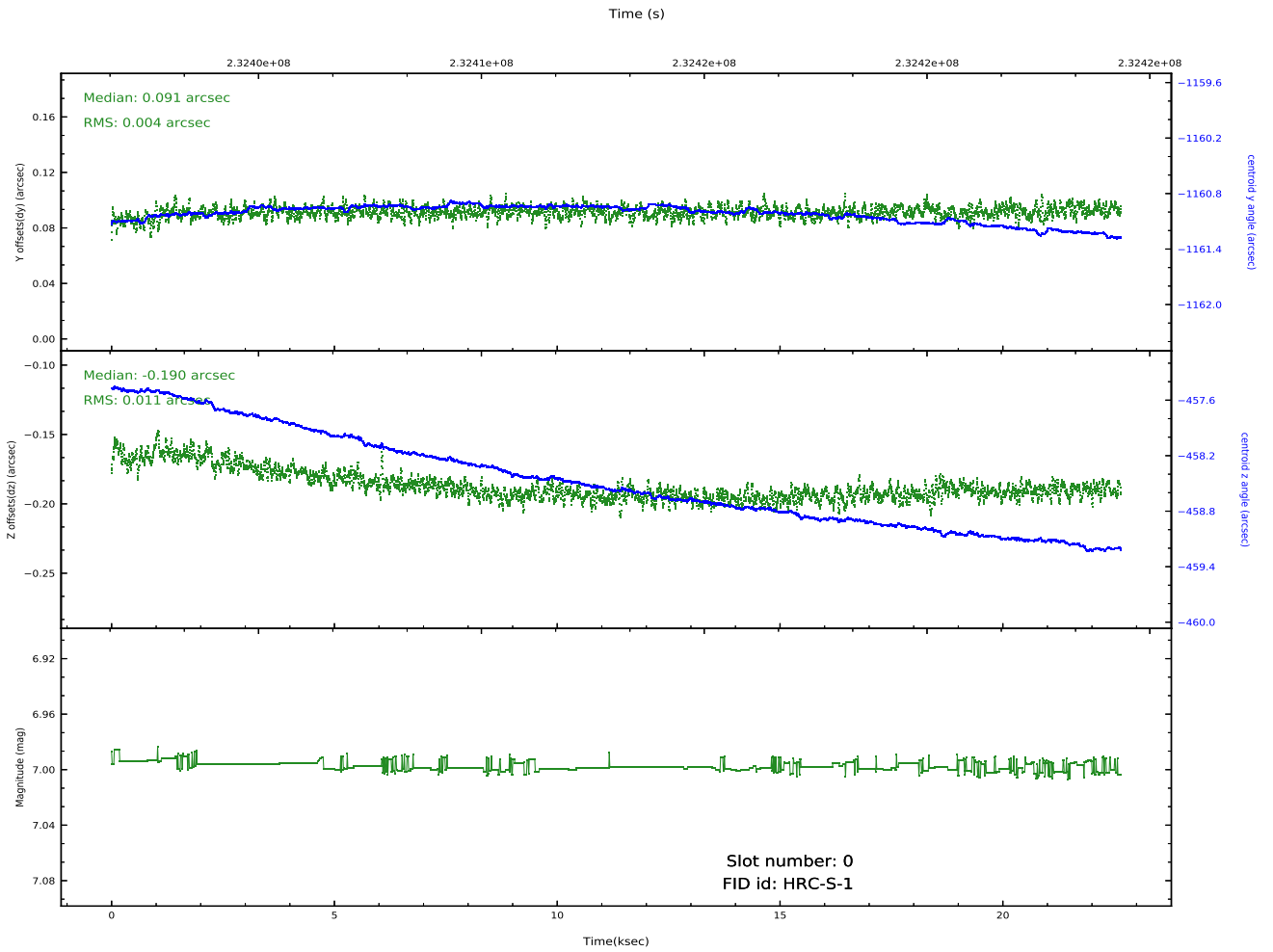
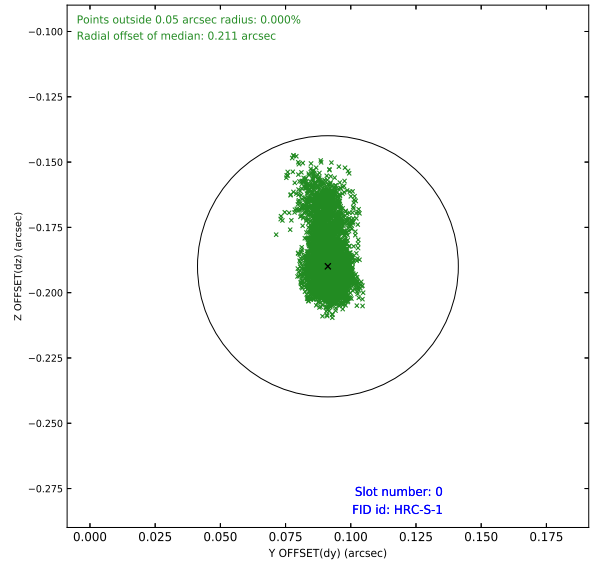
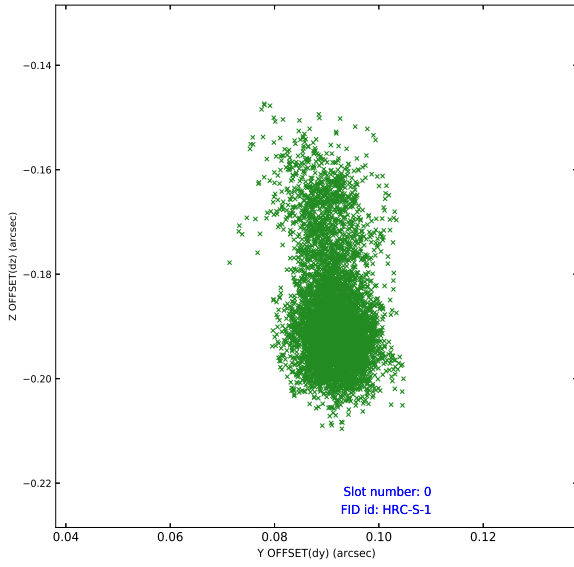


Time (s)

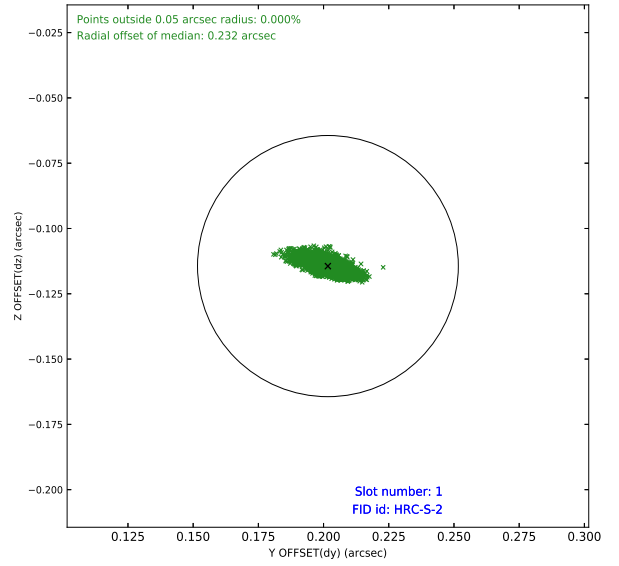
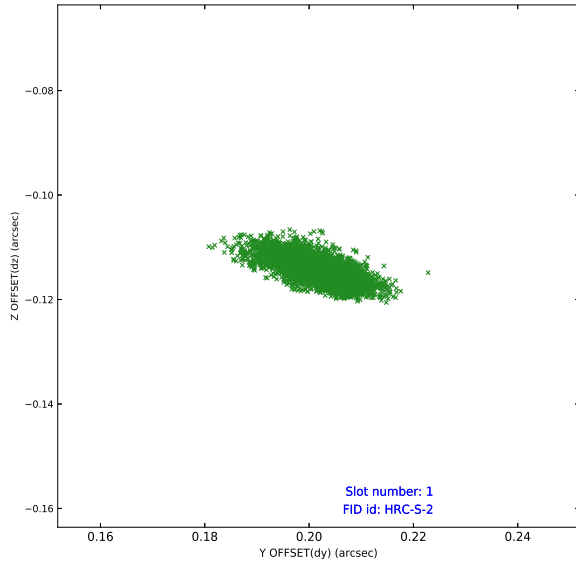


## 2.5 FID Slots

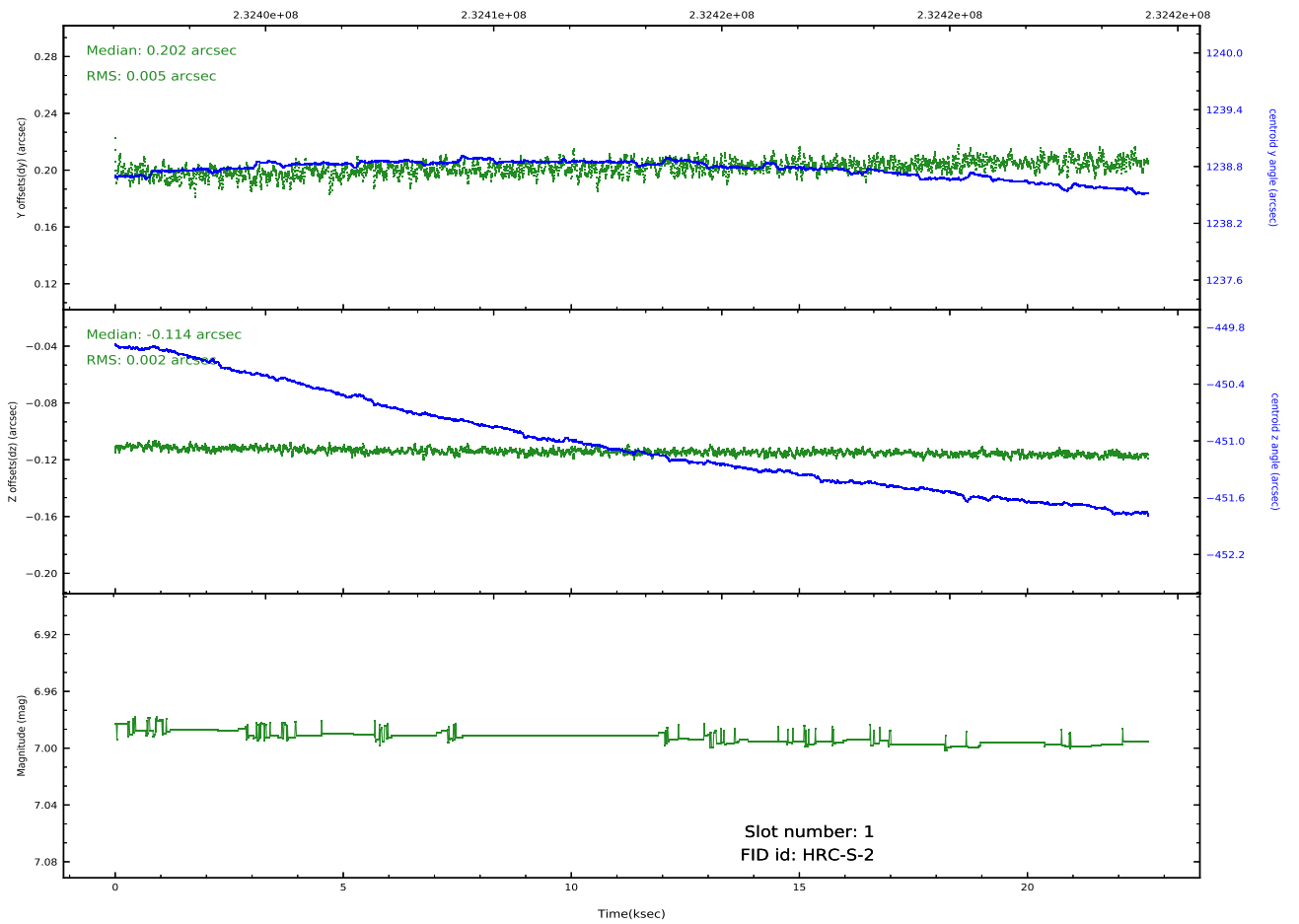
### 2.5.1 Slot 0



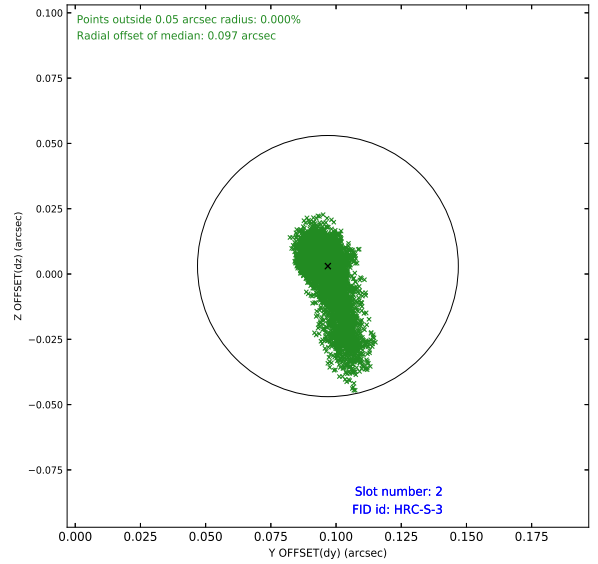
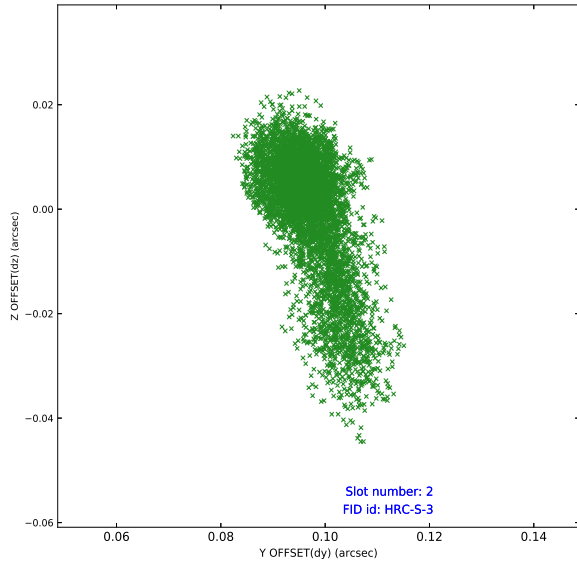
## 2.5.2 Slot 1



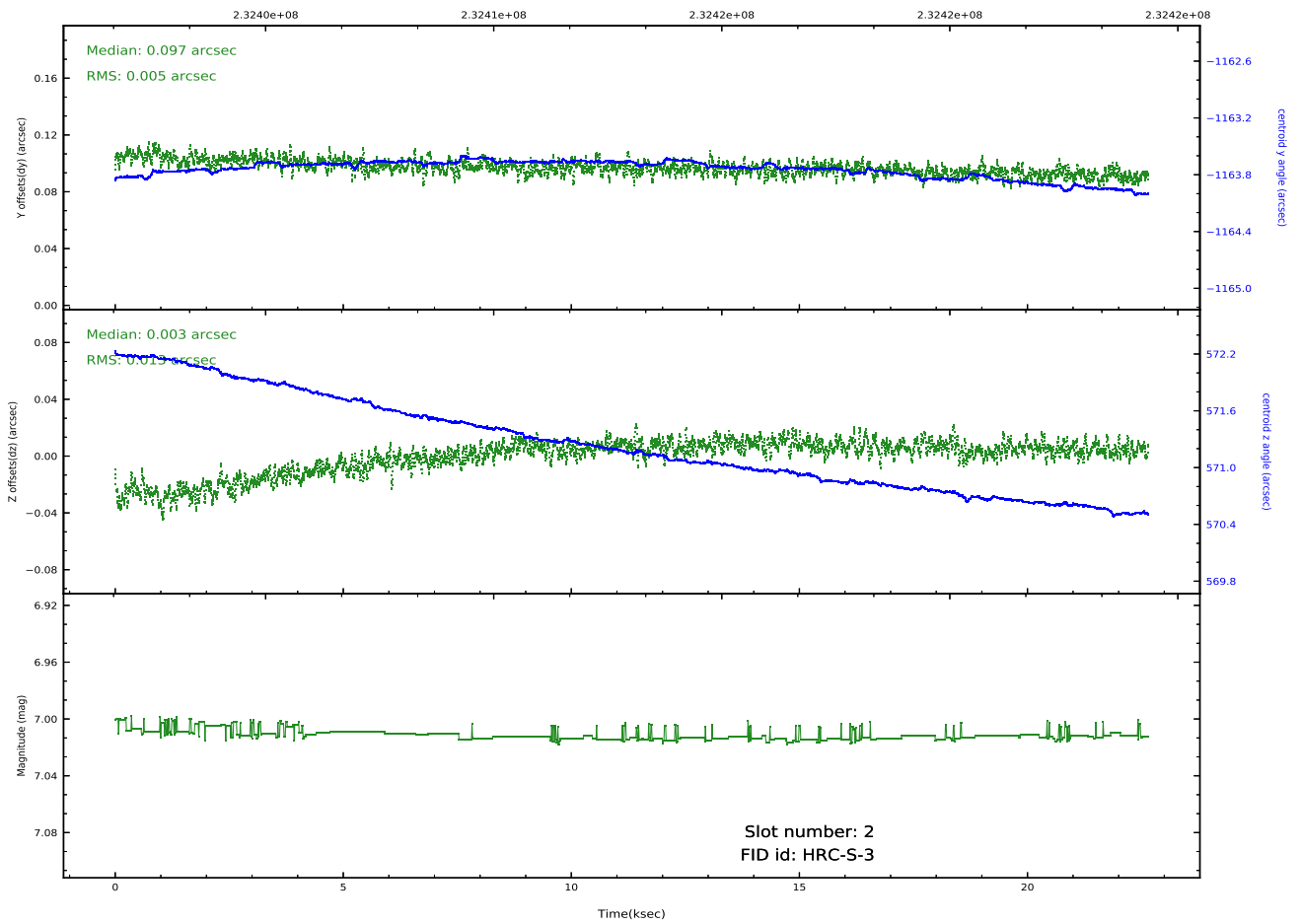
Time (s)



### 2.5.3 Slot 2

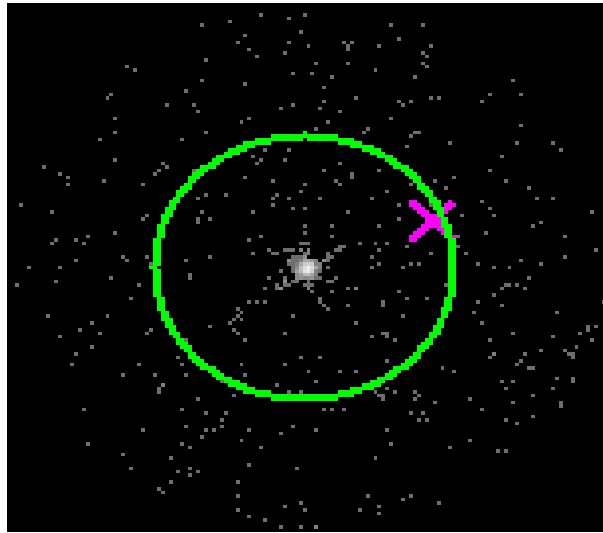


Time (s)

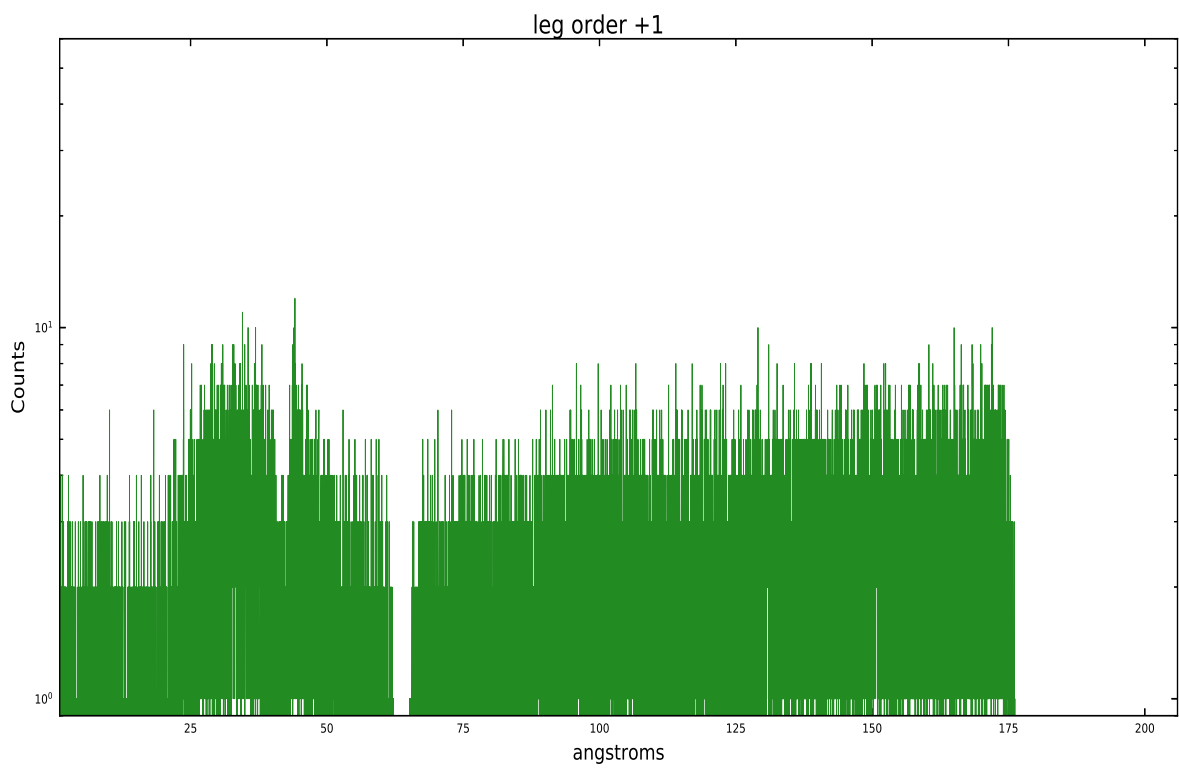
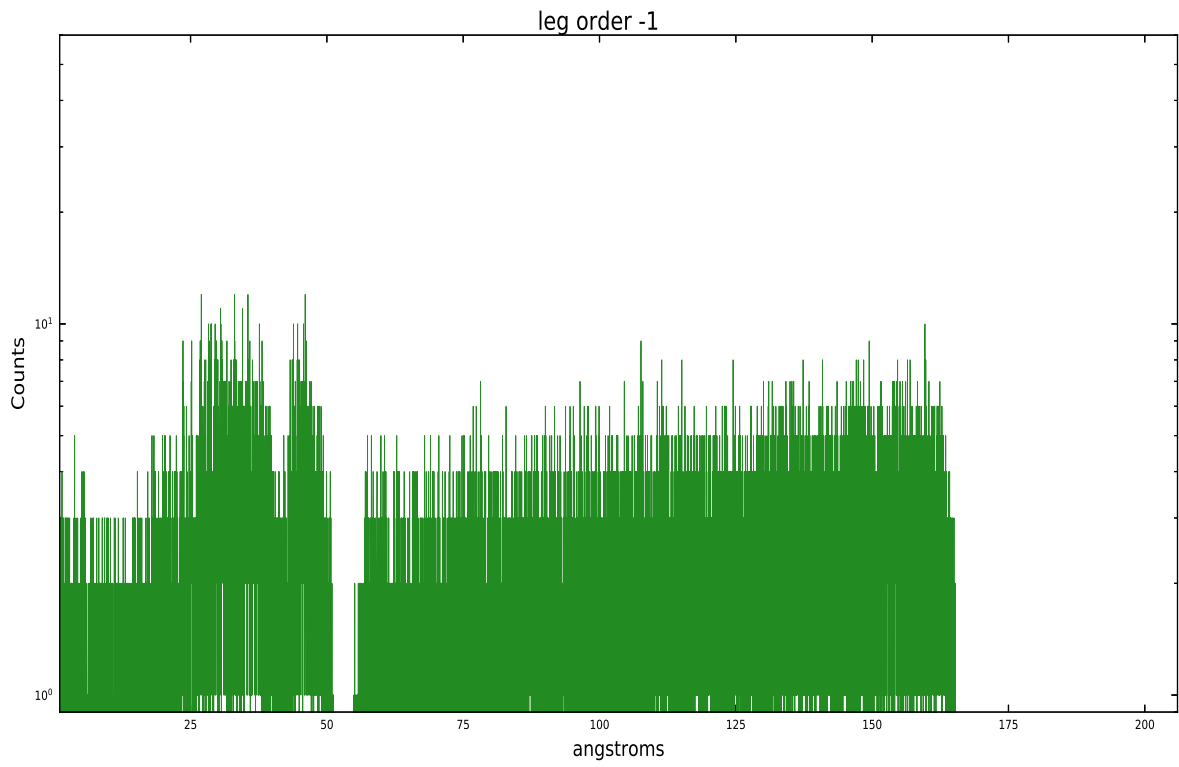


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.65147

## A.2 Comments