

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5395 - L2 Version 4
Chandra X-Ray Center

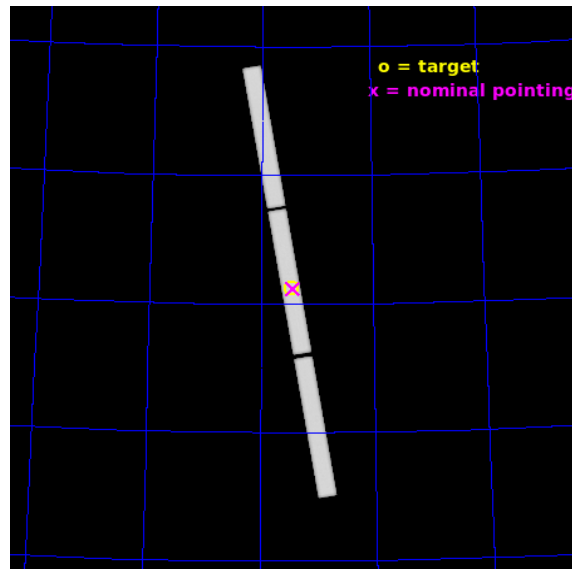
L2 Processing Date : Oct 11 2020

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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	322.15497862742	Nominal RA [deg]
dec_nom	70.558766533525	Nominal Dec [deg]
roll_nom	260.27284213864	Nominal Roll [deg]
revision	4	Processing version of data
ontime	36432.729806215	[s]
livetime	36163.187513699	Ontime multiplied by DTCOR
l2events	2164901	Number of level 2 events

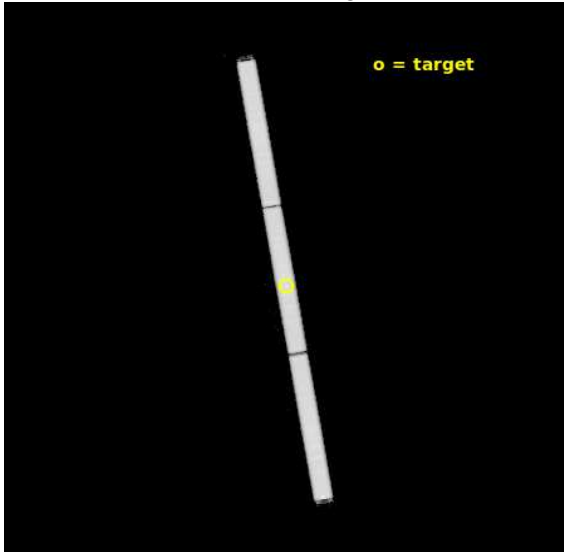


2 OBI

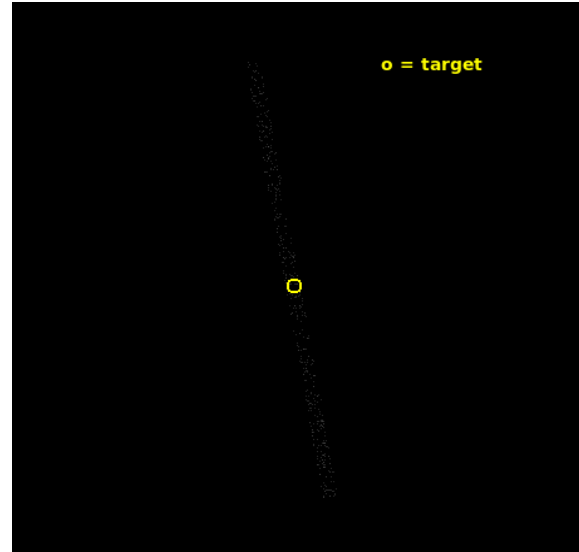
2.1 OBI

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	10.9.1	Processing system revision	ontime	36433.882929921	[s]
caldsver	4.9.2	 	l1events	3029217	Number of level 1 events
date	2020-10-11T04:51:58	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32680.03, 32820.92)	src1a sky pixel position

2.1.3 Events

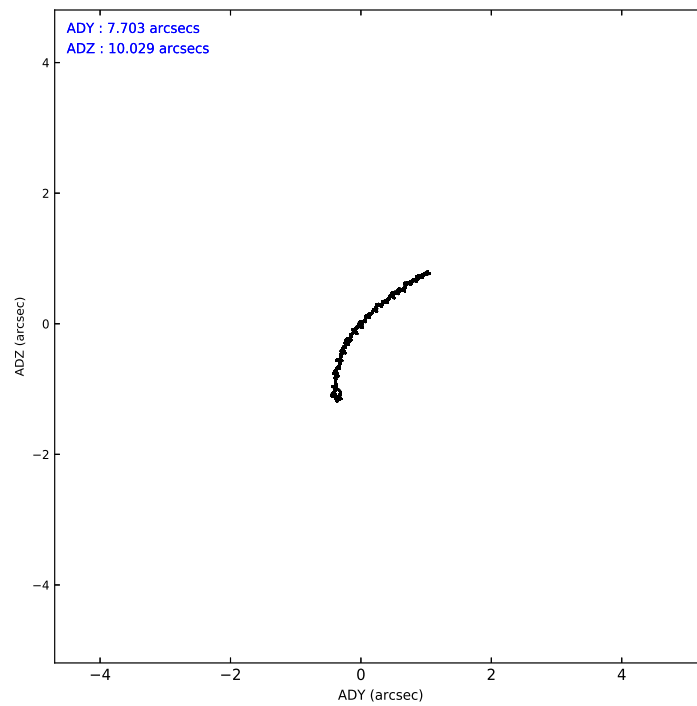
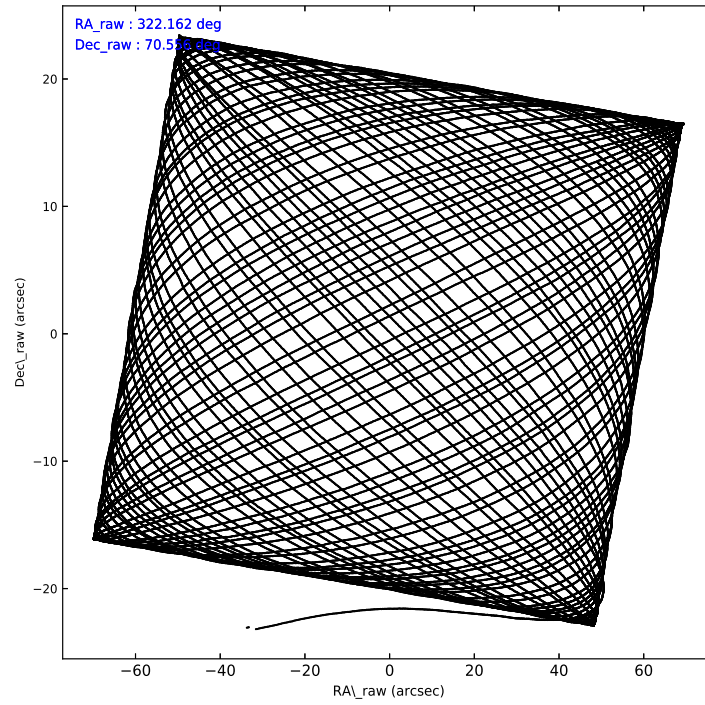
Level 1 Events

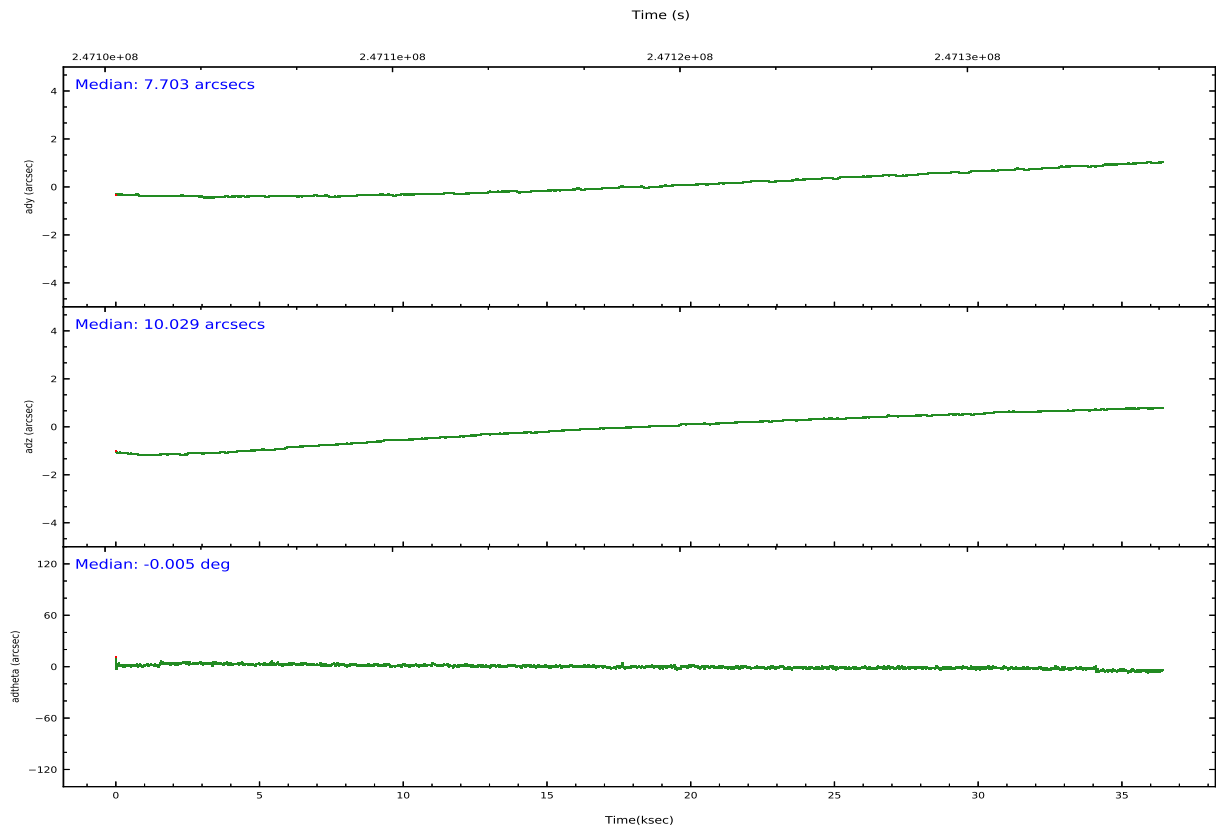
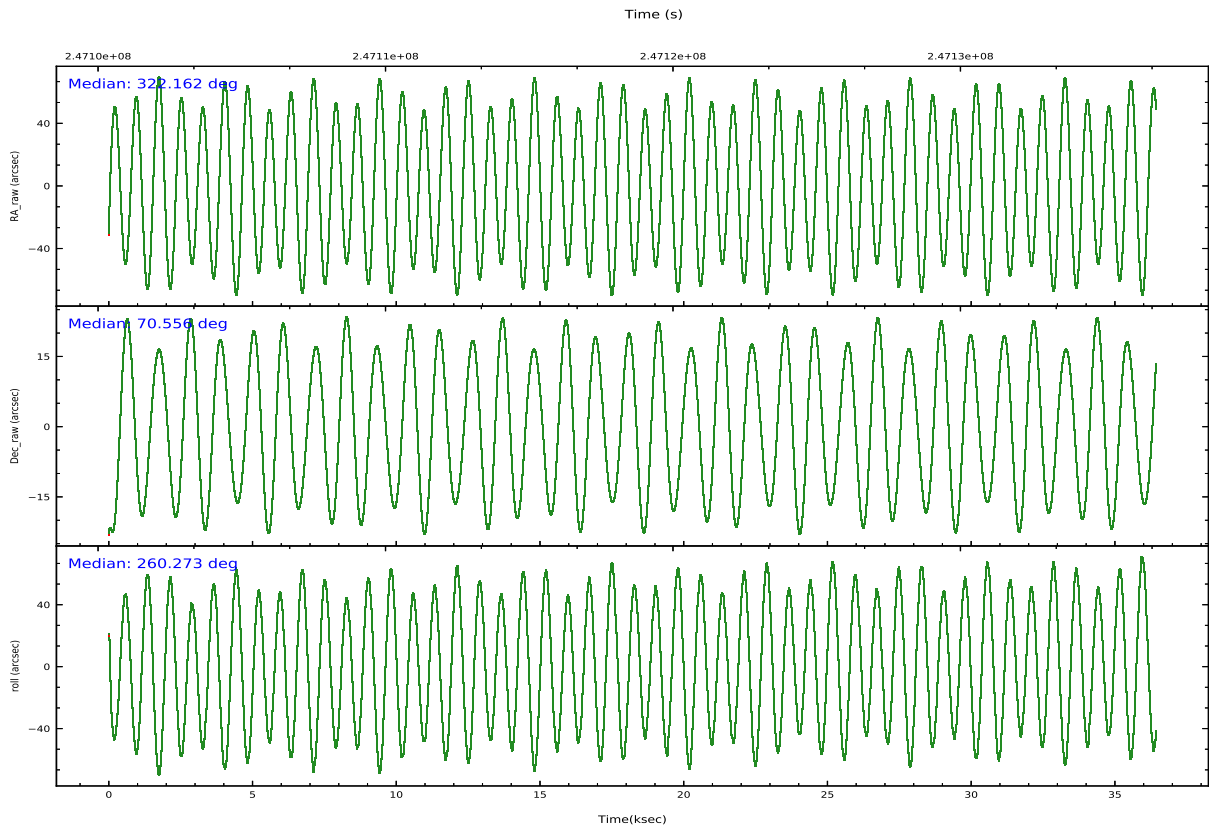
	segment 1	segment 2	segment 3
level 1 events	1011537	993063	1024617
rejected events	19479	19128	20297
rejected %	1%	1%	1%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar version number	8	8
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	322.15497862742			
[deg] Pointing Dec	70.582433	70.558766533525			
[deg] Pointing Roll	260.234471	260.27284213864			
[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





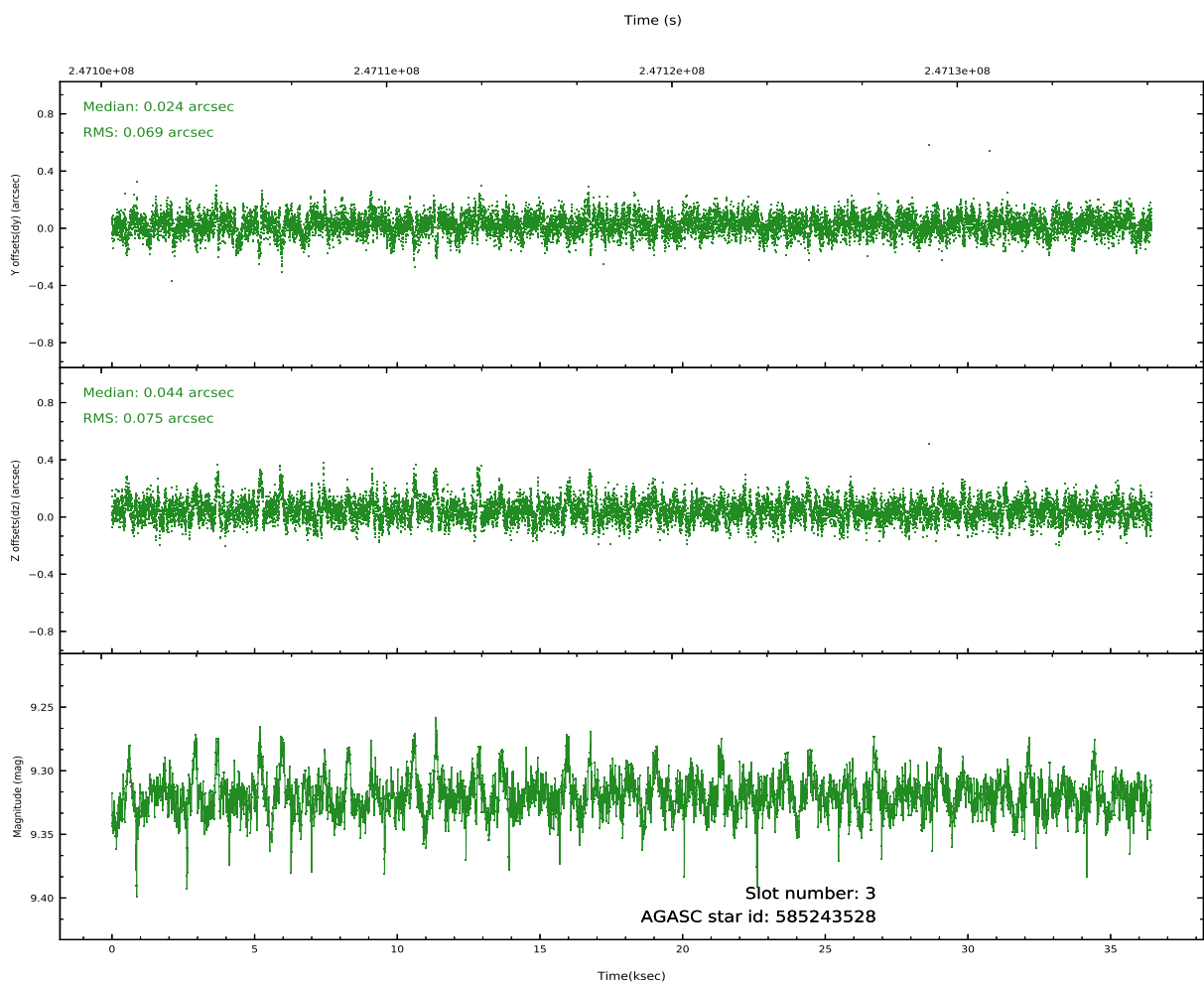
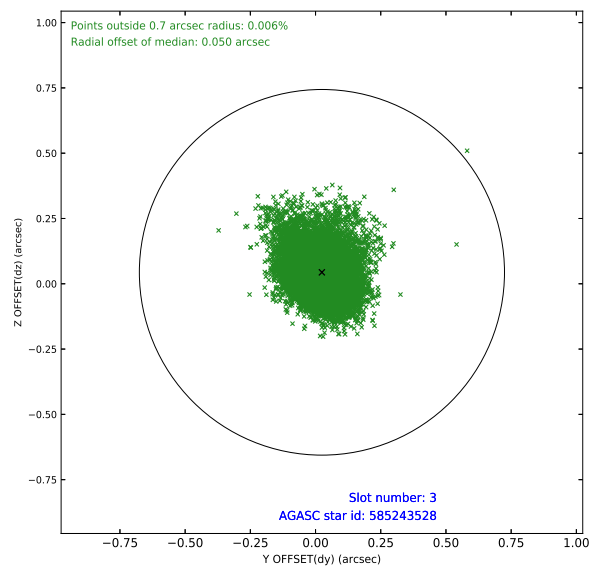
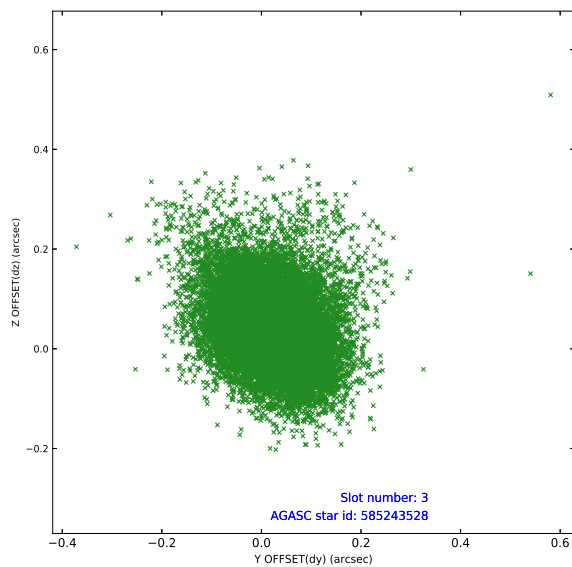
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.05	8887	1.000	0.035	-0.148	0.014	0.025	0.000000	0.000000	-1162.06	-458
1	FID		HRC-S-2	7.04	8887	1.000	0.126	-0.112	0.032	0.063	0.000000	0.000000	1237.58	-451
2	FID		HRC-S-4	7.02	8887	1.000	0.241	-0.043	0.028	0.058	0.000000	0.000000	1236.52	573
3	GUIDE	used	585243528	9.32	17763	1.000	0.024	0.044	0.104	0.182	323.001841	70.190189	1203.86	1288
4	GUIDE	used	585244656	7.43	17767	1.000	-0.071	-0.052	0.070	0.109	322.746463	70.823219	-981.79	572
5	GUIDE	used	585245544	7.36	17774	1.000	-0.054	-0.089	0.065	0.110	321.319997	70.477535	530.56	-895
6	GUIDE	used	585249712	9.18	17755	1.000	0.094	0.055	0.097	0.159	322.943679	70.596904	-222.84	950
7	GUIDE	used	585244168	9.02	17759	1.000	0.004	0.040	0.076	0.124	323.050612	69.955180	2023.94	1503

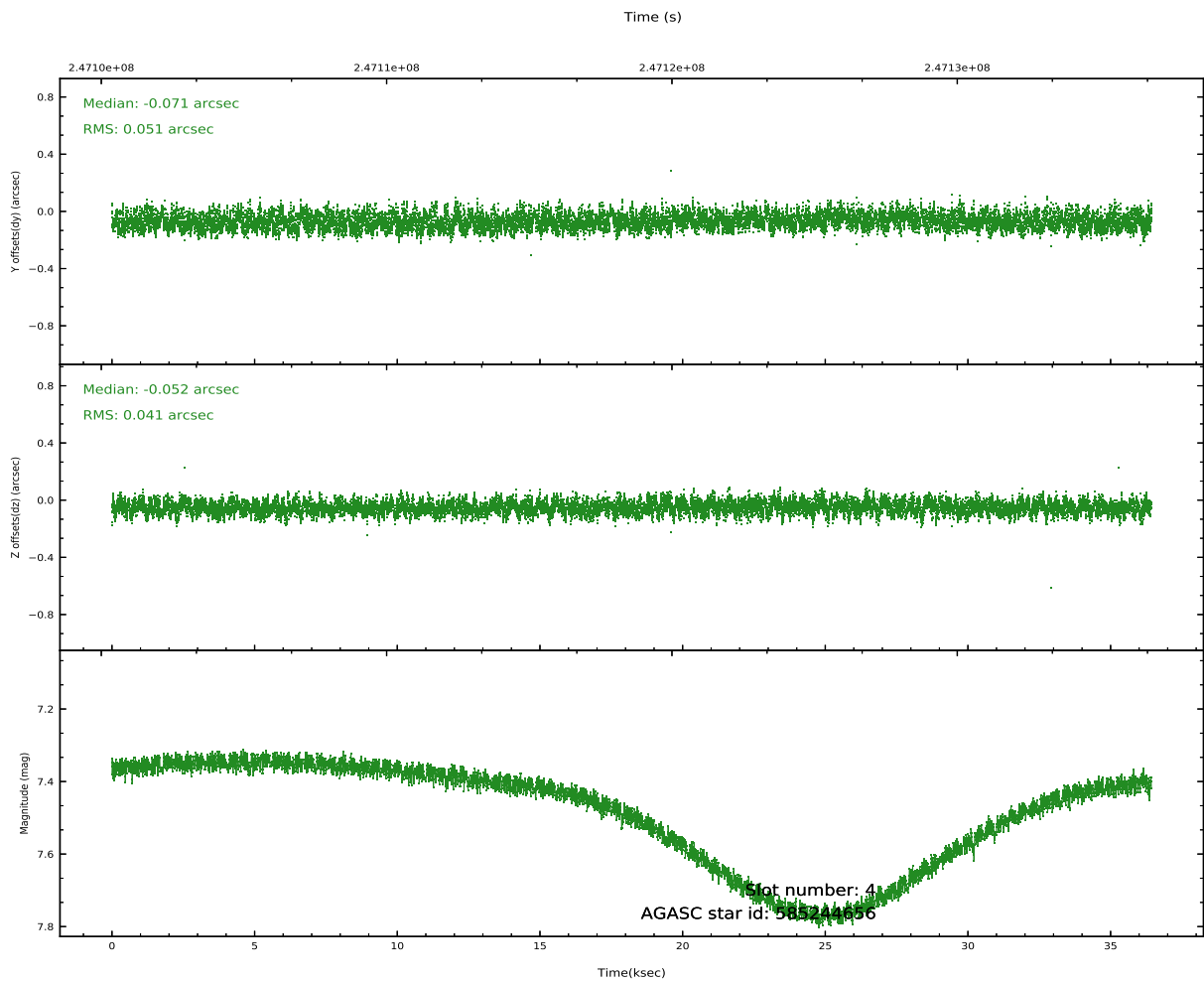
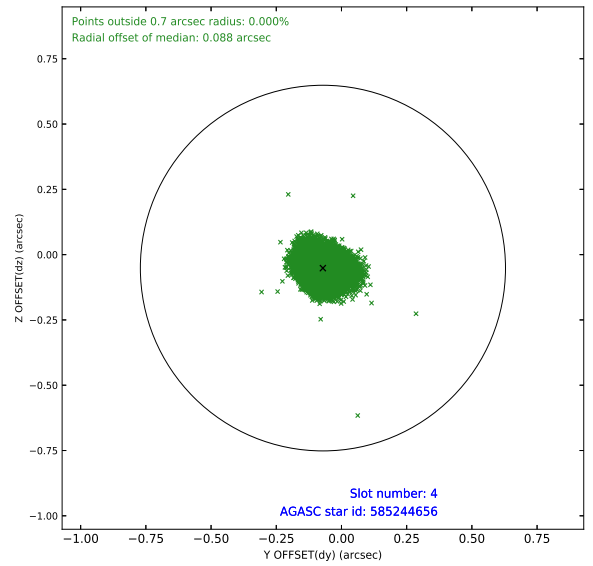
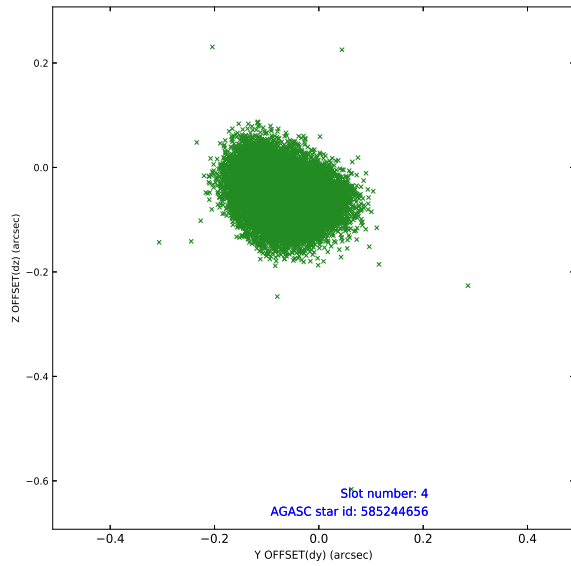
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2.4 Star Slots

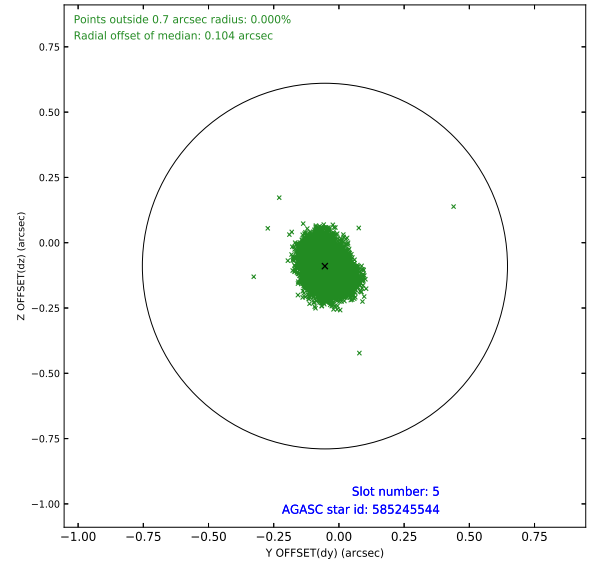
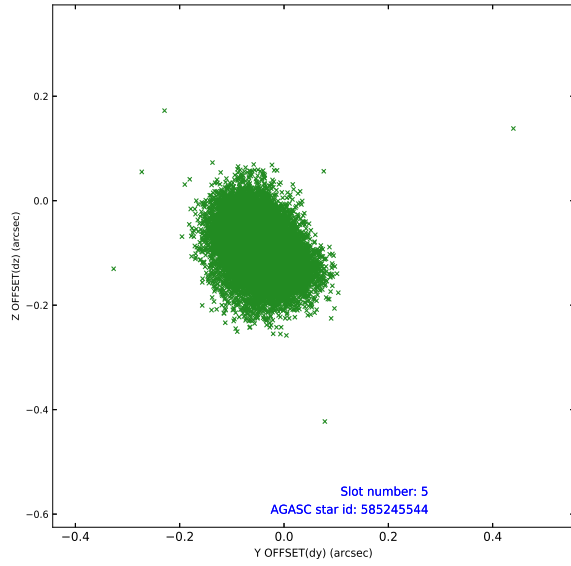
2.4.1 Slot 3



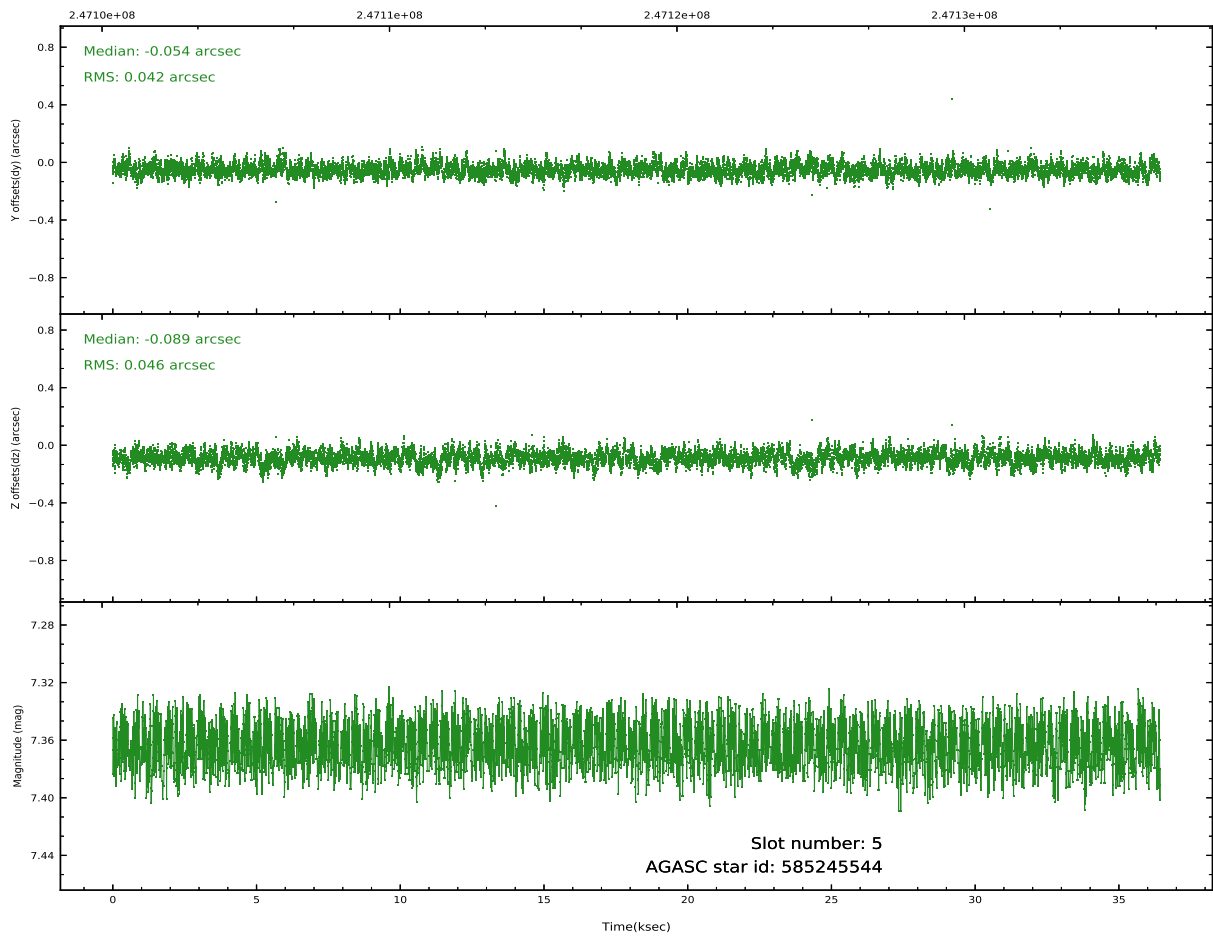
2.4.2 Slot 4



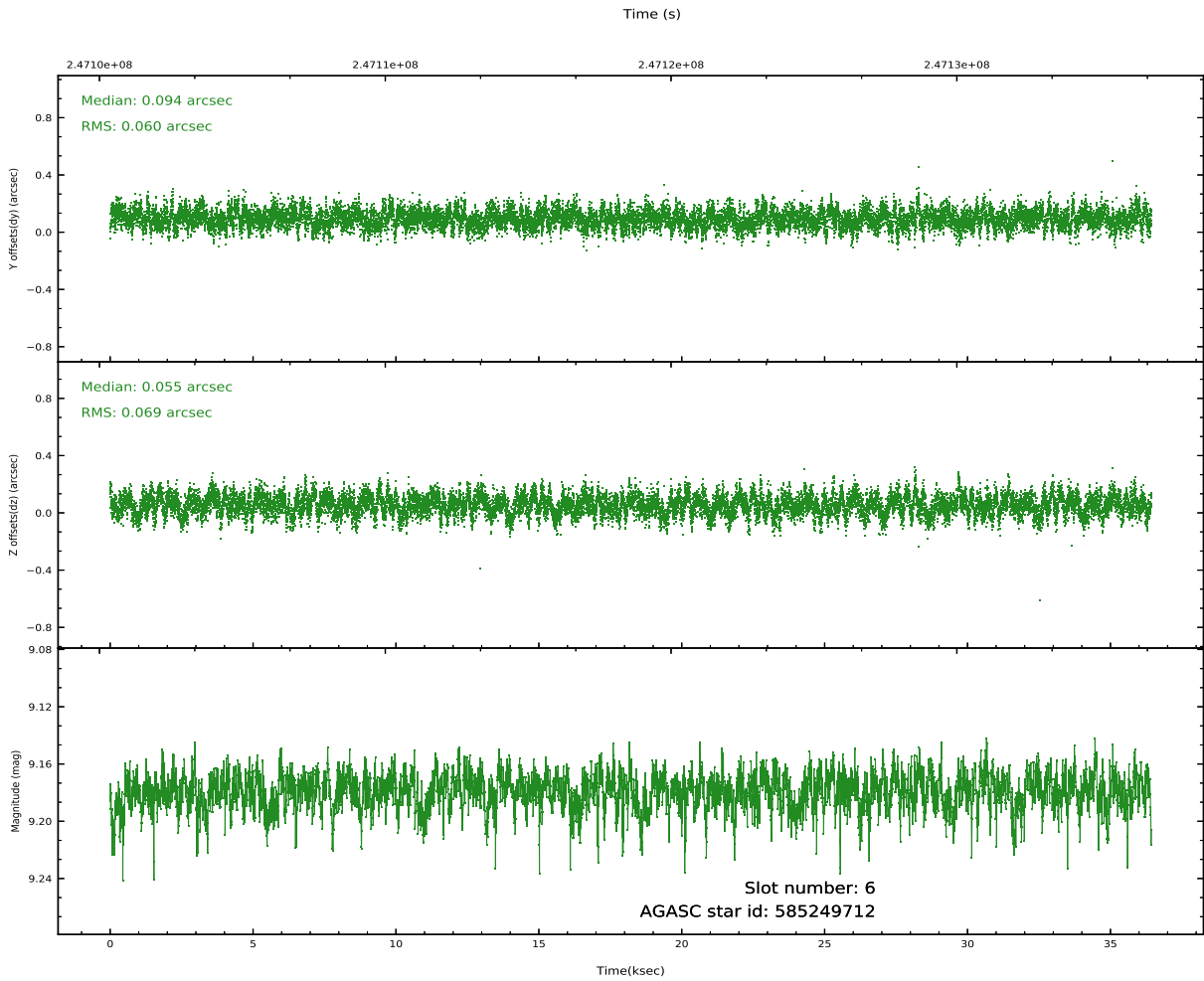
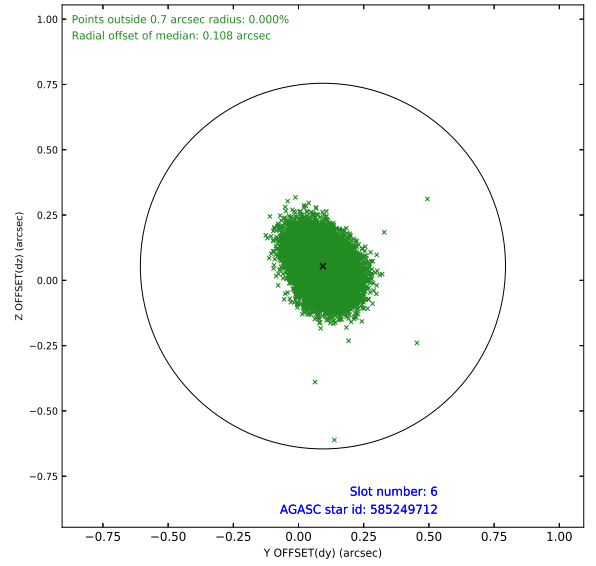
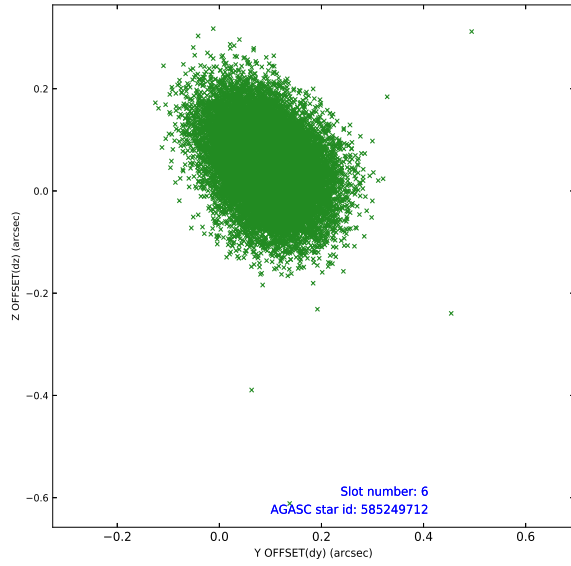
2.4.3 Slot 5



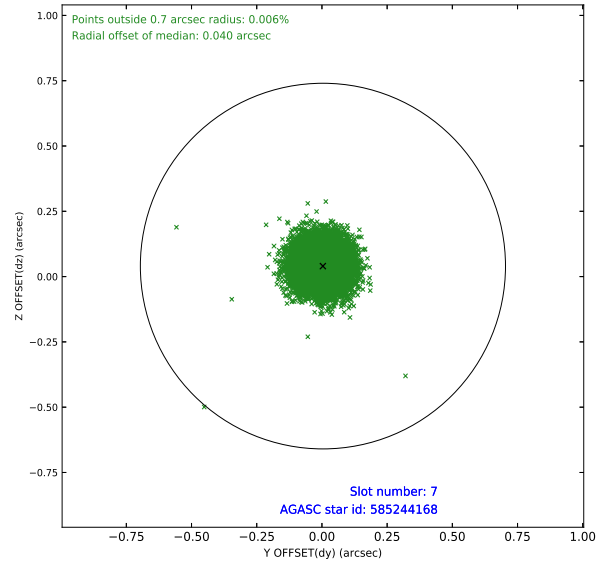
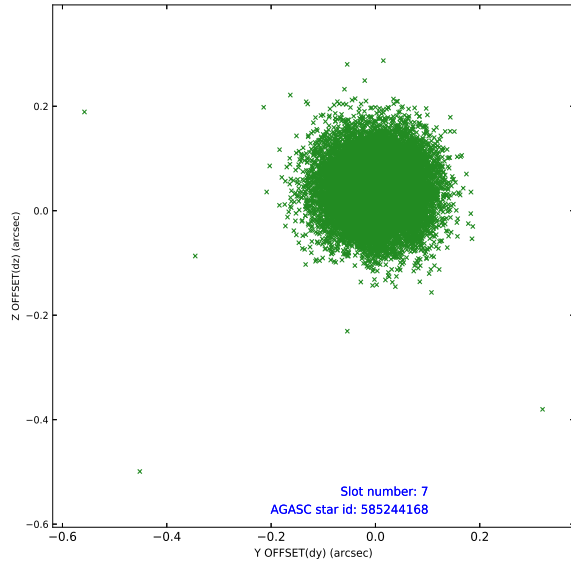
Time (s)



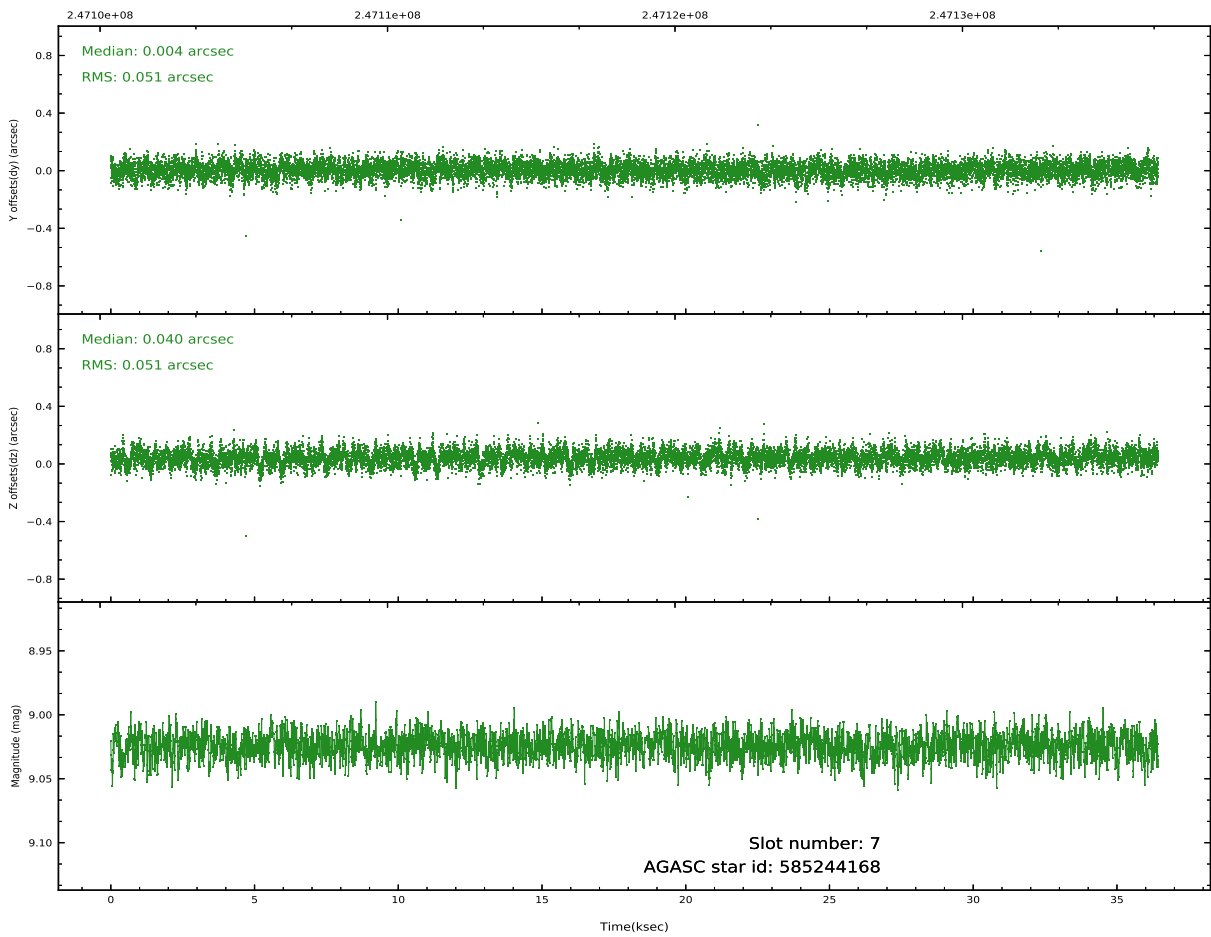
2.4.4 Slot 6



2.4.5 Slot 7

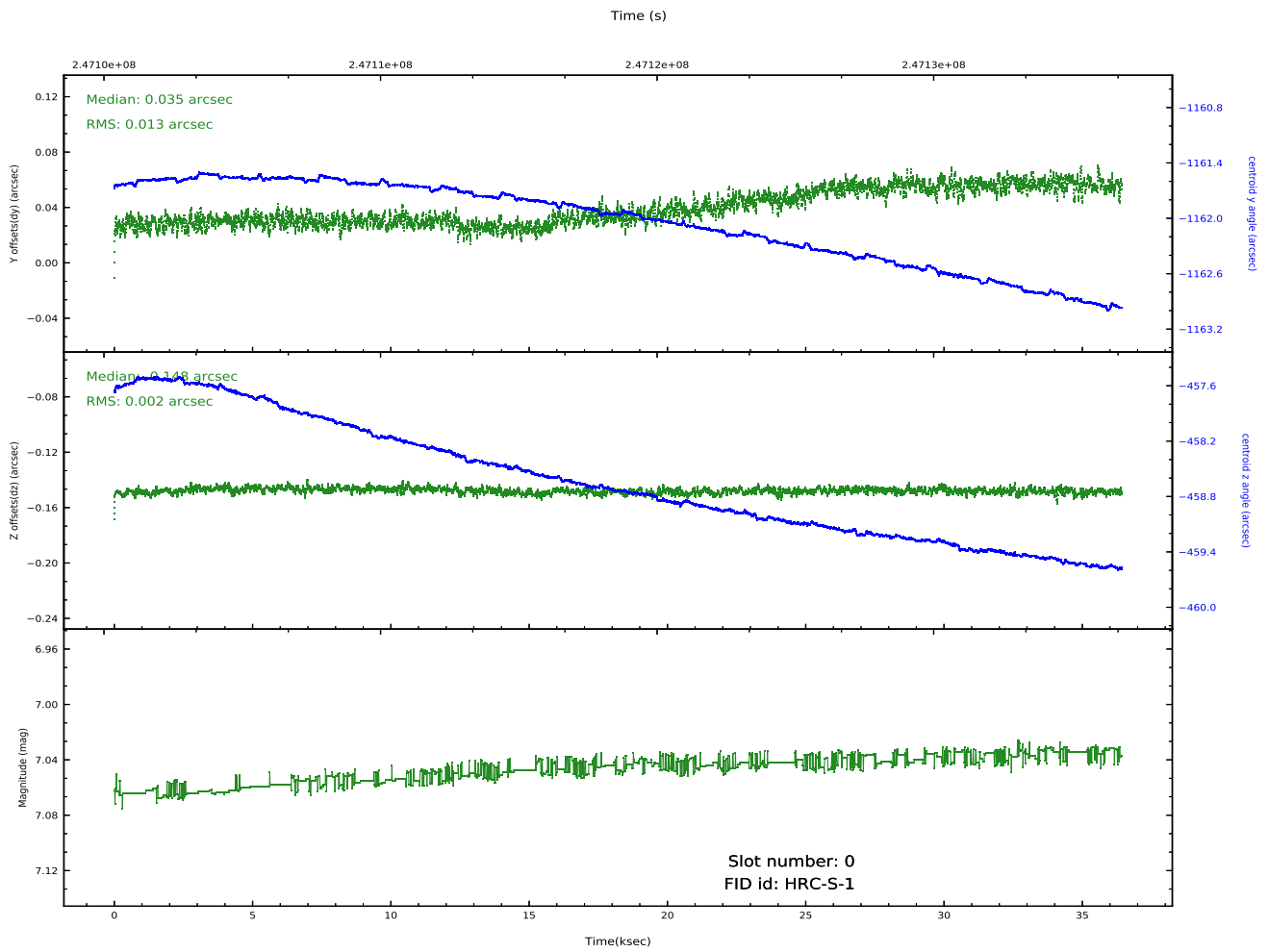
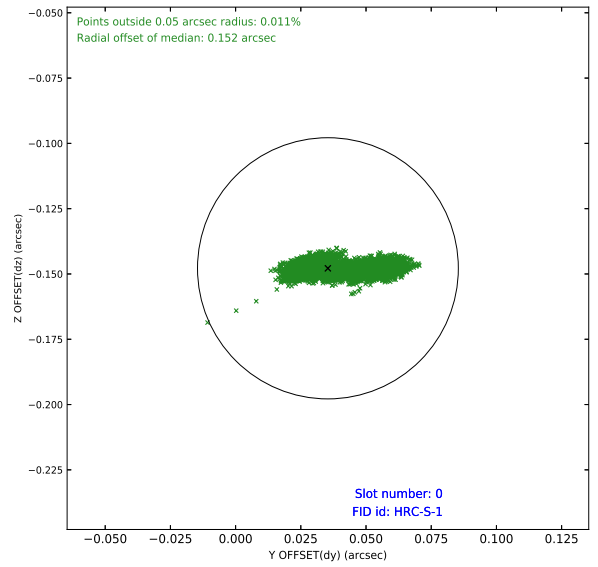
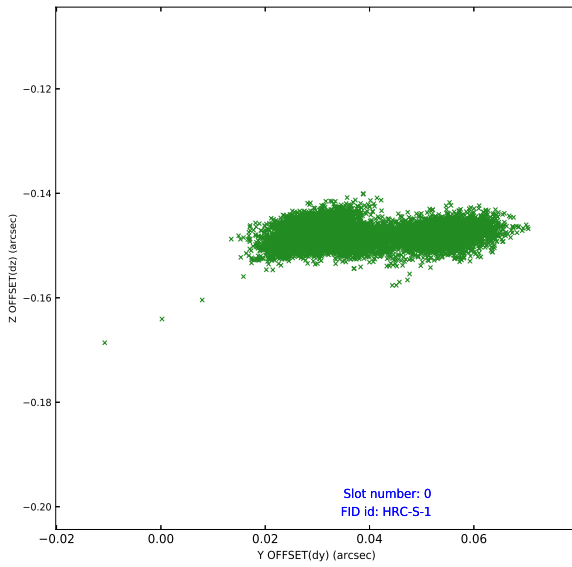


Time (s)

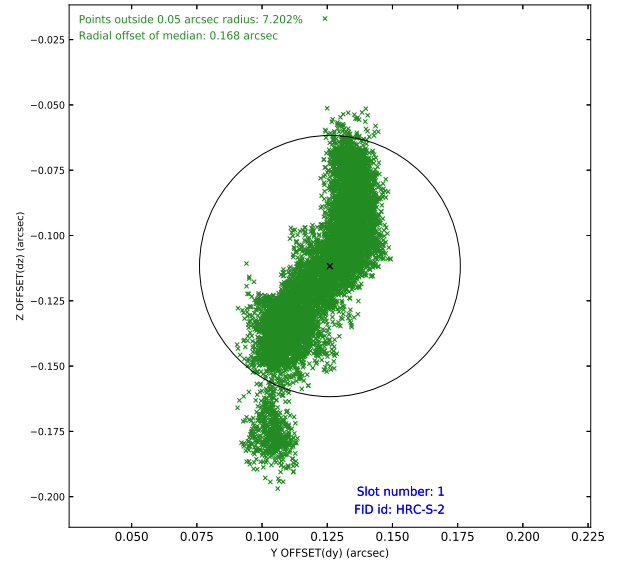
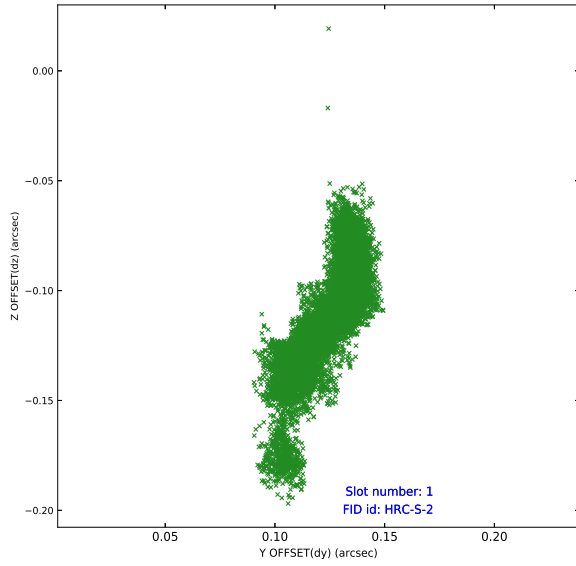


2.5 FID Slots

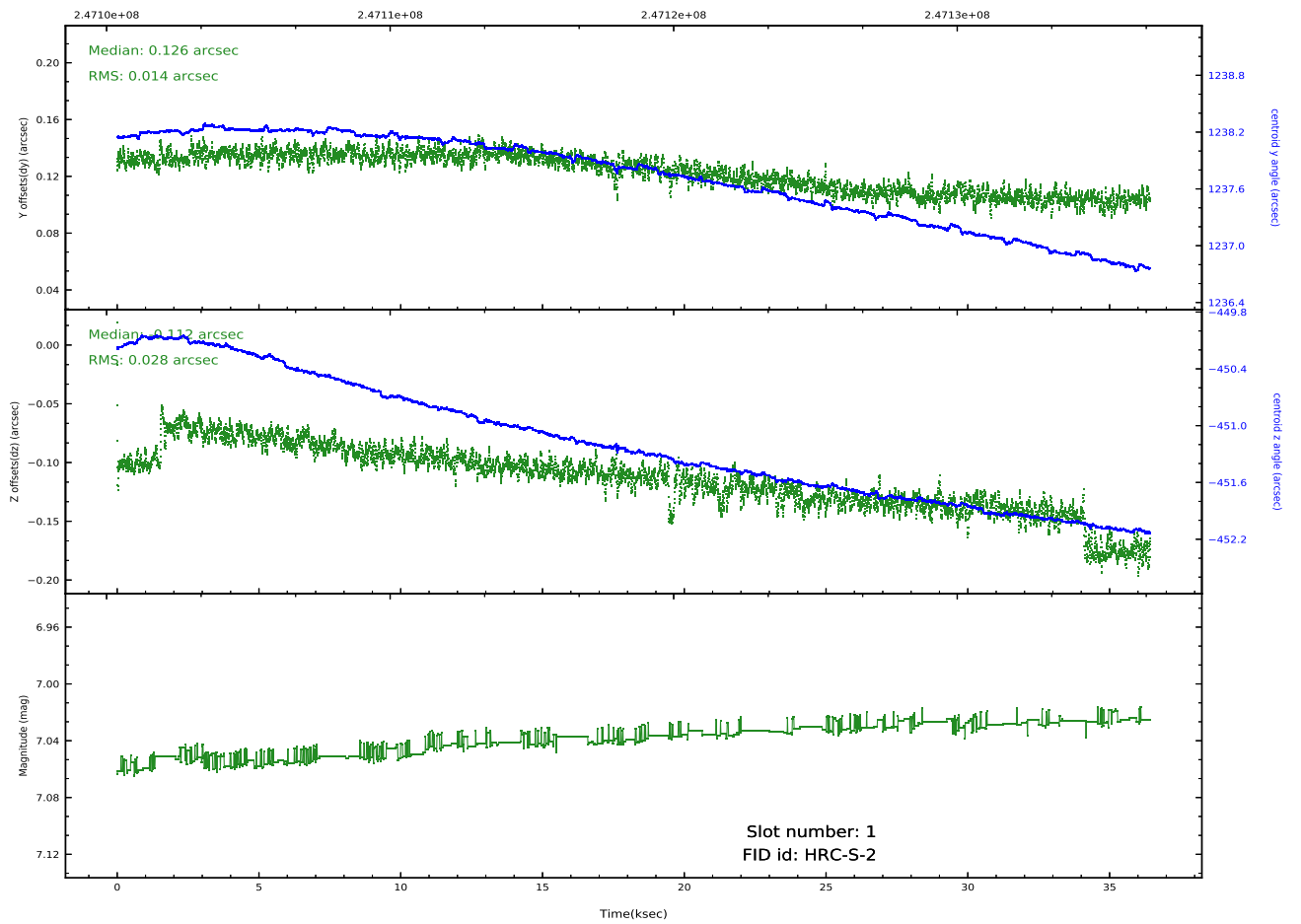
2.5.1 Slot 0



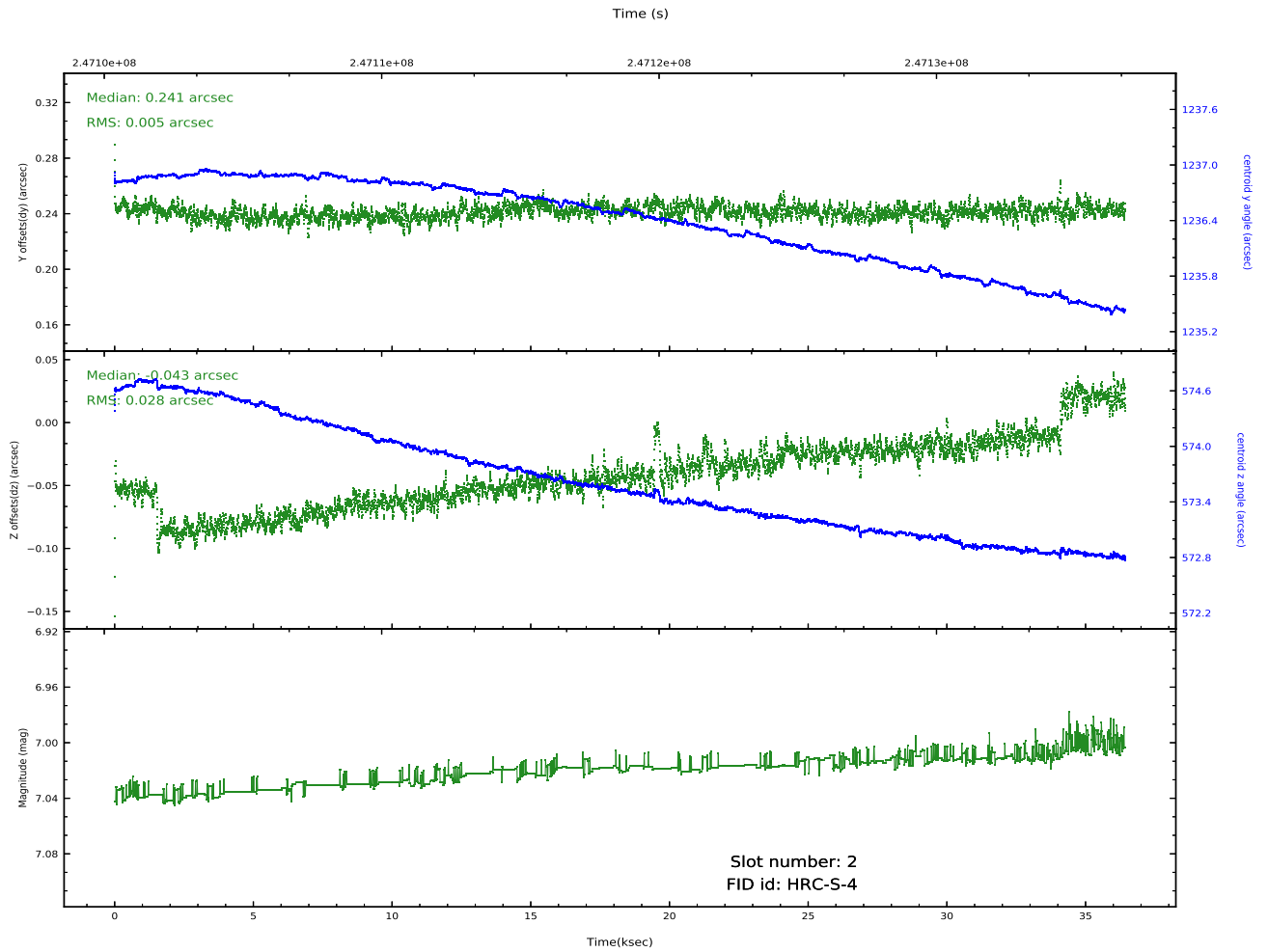
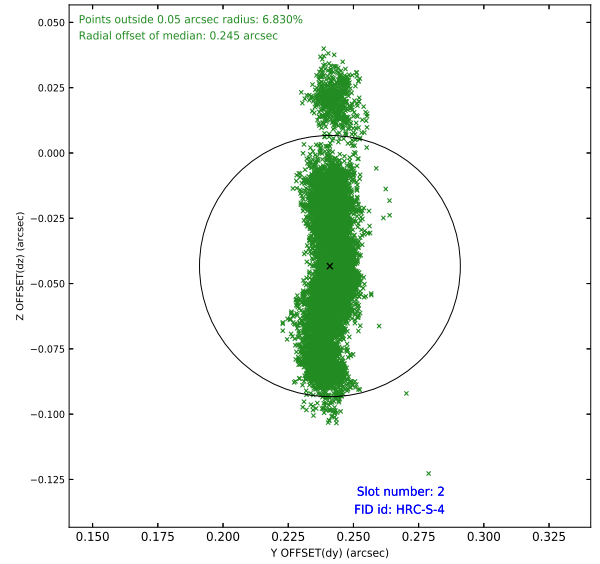
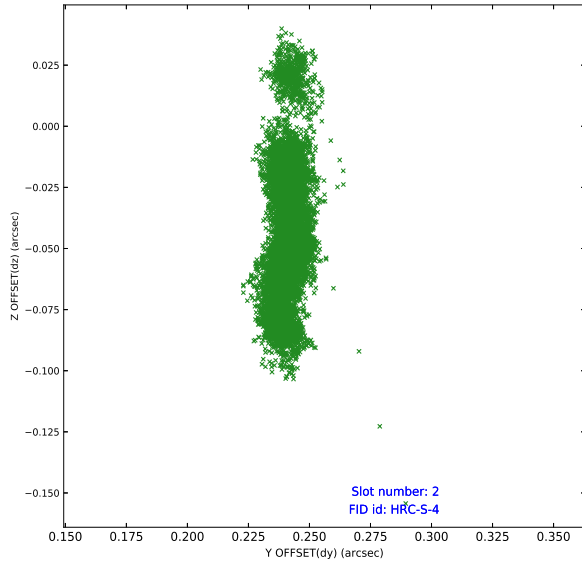
2.5.2 Slot 1



Time (s)

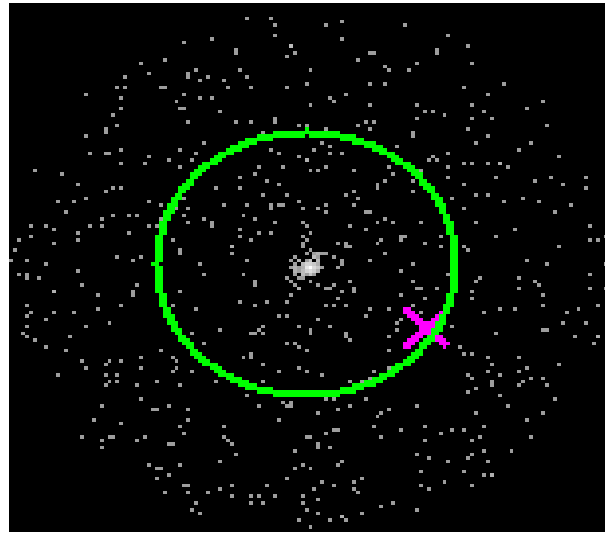


2.5.3 Slot 2

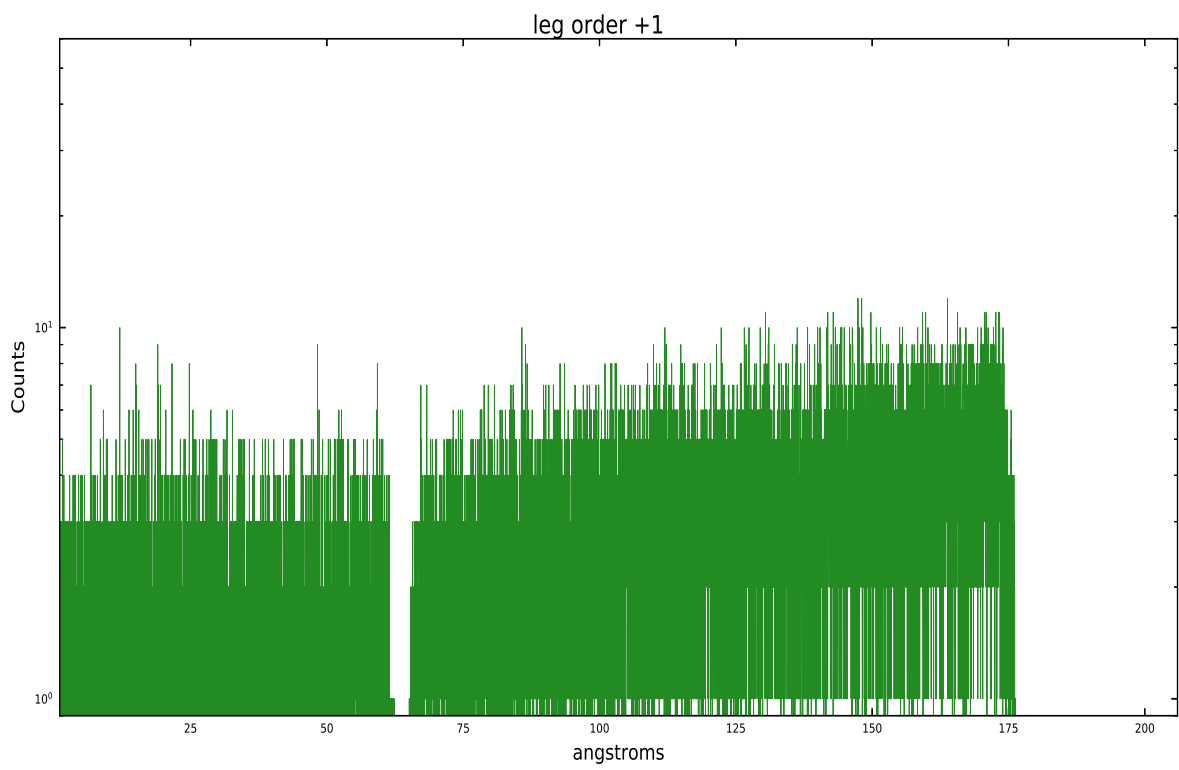
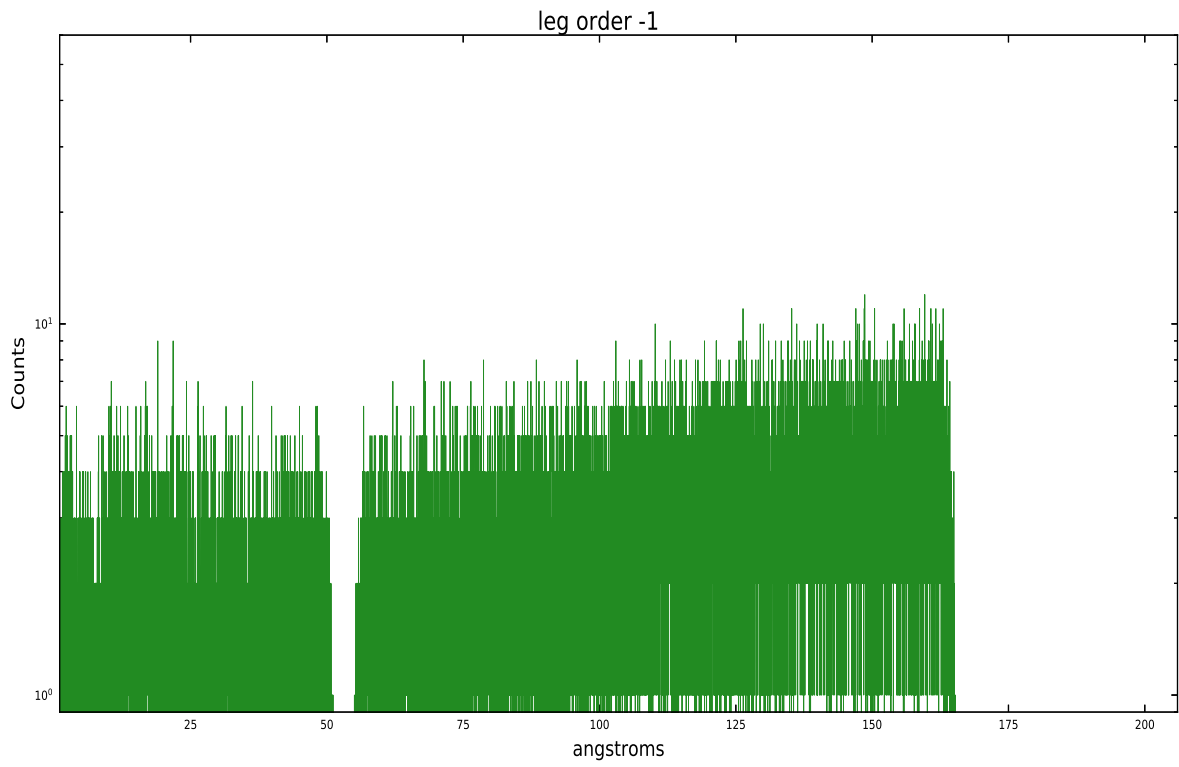


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Melania Nynka
V&V Date (YYYY-MM-DD)	2020.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.4326

A.2 Comments