

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6132 - L2 Version 5
Chandra X-Ray Center

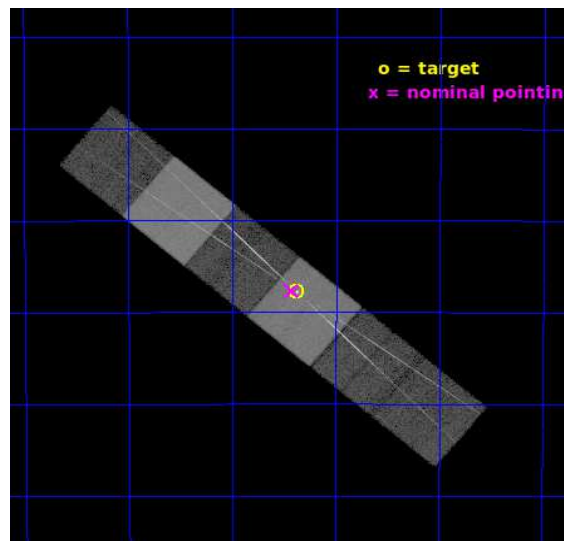
L2 Processing Date : Oct 2 2020

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1 Front

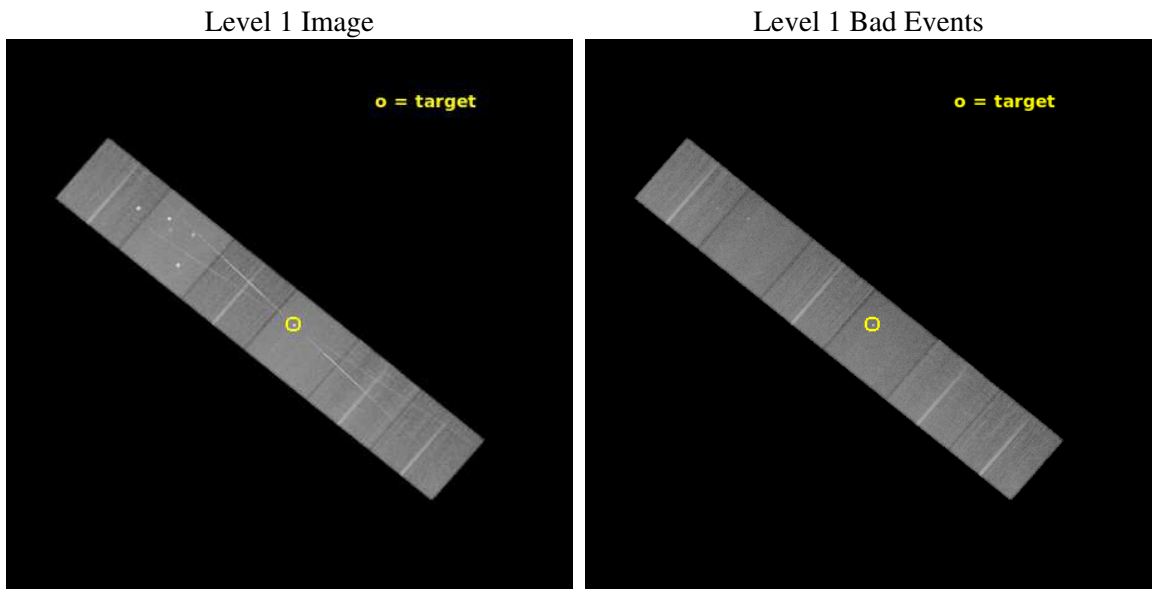
seq_num	200282	Sequence number
obs_id	6132	Observation id
title	From Photosphere to Corona: Magnetic Fields and Coronal Emission from the Active Binary CC Eridani	Proposal title
observer	Dr. Rachel Osten	Principal investigator
object	CC Eri	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	38.594167	Observer's specified target RA [deg]
dec_targ	-43.796361	Observer's specified target Dec [deg]
ra_nom	38.606143746344	Nominal RA [deg]
dec_nom	-43.794630196168	Nominal Dec [deg]
roll_nom	39.908493252136	Nominal Roll [deg]
revision	5	Processing version of data
ontime	30953.384815454	Sum of GTIs [s]
livetime	30561.43441903	Livetime [s]
ontime4	30953.425855458	Sum of GTIs [s]
ontime5	30953.343775451	Sum of GTIs [s]
ontime6	30953.302735448	Sum of GTIs [s]
ontime7	30953.384815454	Sum of GTIs [s]
ontime8	30953.261695445	Sum of GTIs [s]
ontime9	30953.220655471	Sum of GTIs [s]
l2events	424600	Number of level 2 events



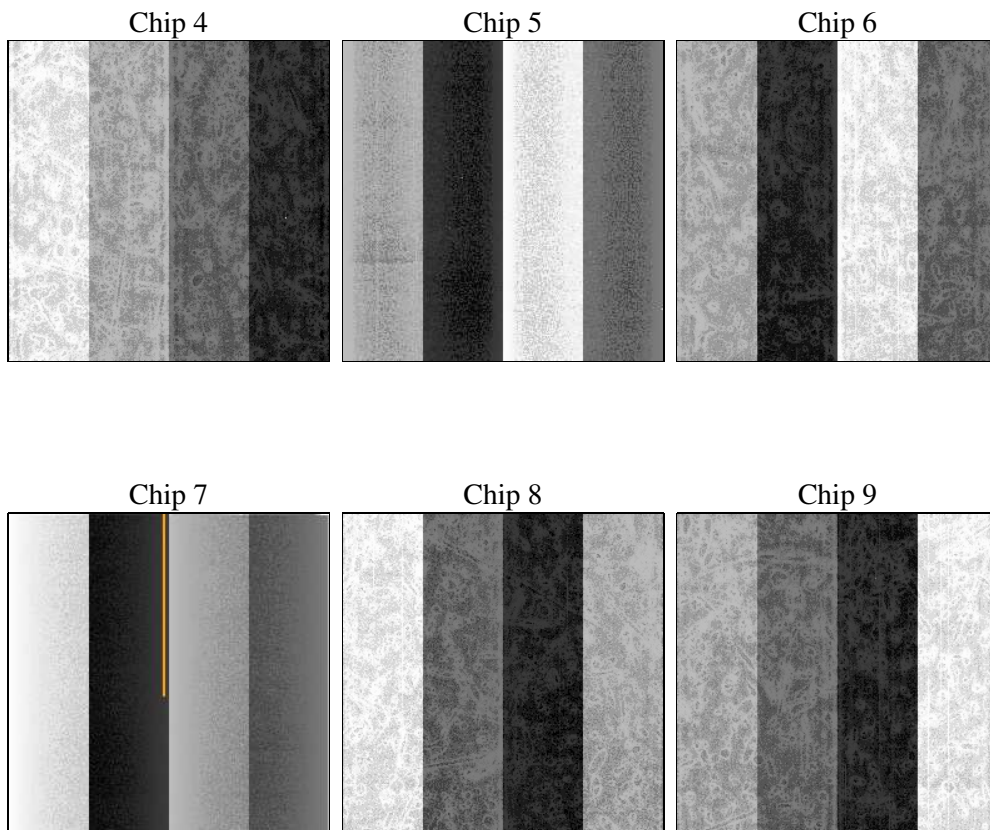
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30953.384815454	Sum of GTIs [s]
caldbver	4.9.2	 	ontime4	30953.425855458	Sum of GTIs [s]
date	2020-10-02T20:58:15	Date and time of file creation	ontime5	30953.343775451	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	30953.302735448	Sum of GTIs [s]
			ontime7	30953.384815454	Sum of GTIs [s]
			ontime8	30953.261695445	Sum of GTIs [s]
			ontime9	30953.220655471	Sum of GTIs [s]
			l1events	1773189	Number of level 1 events
			tgmethod	FINDZO	Method used to create src1a file
			z0_pos	(4150.60, 4081.26)	src1a sky pixel position

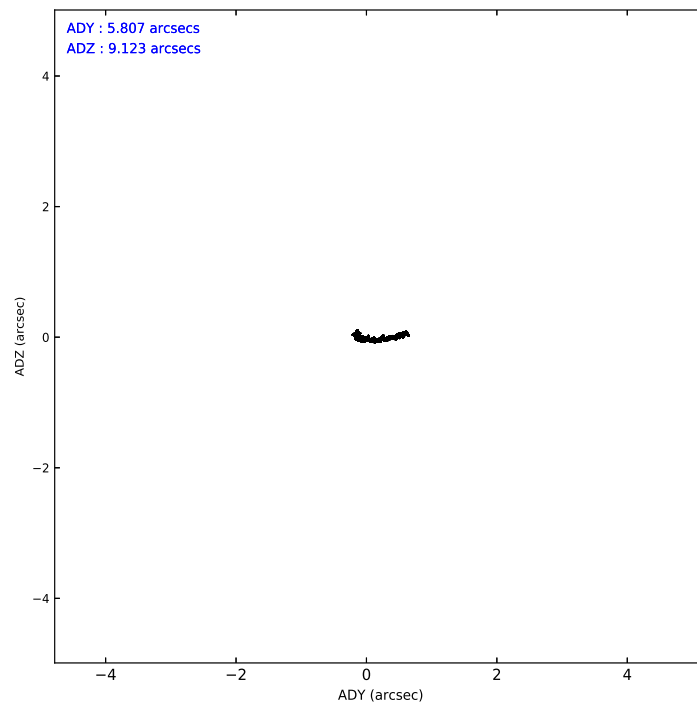
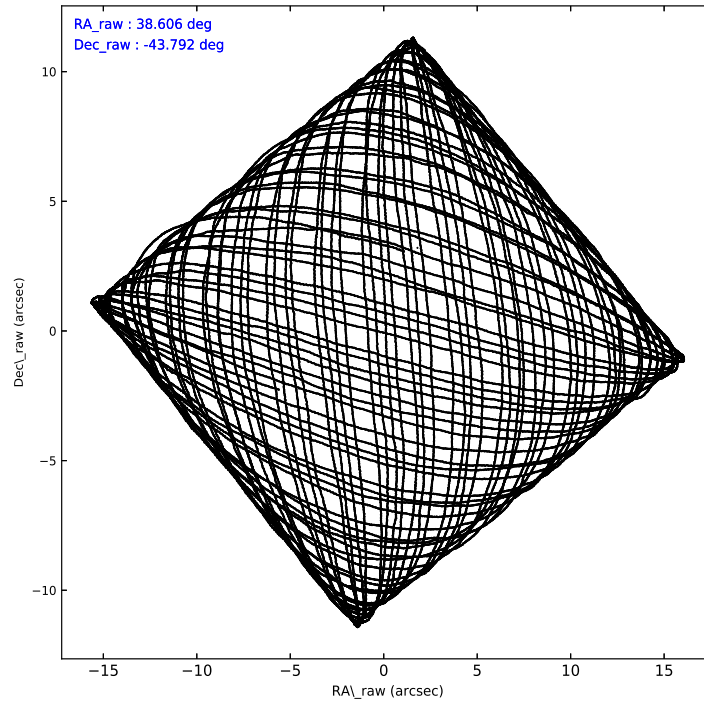
2.1.4 Events

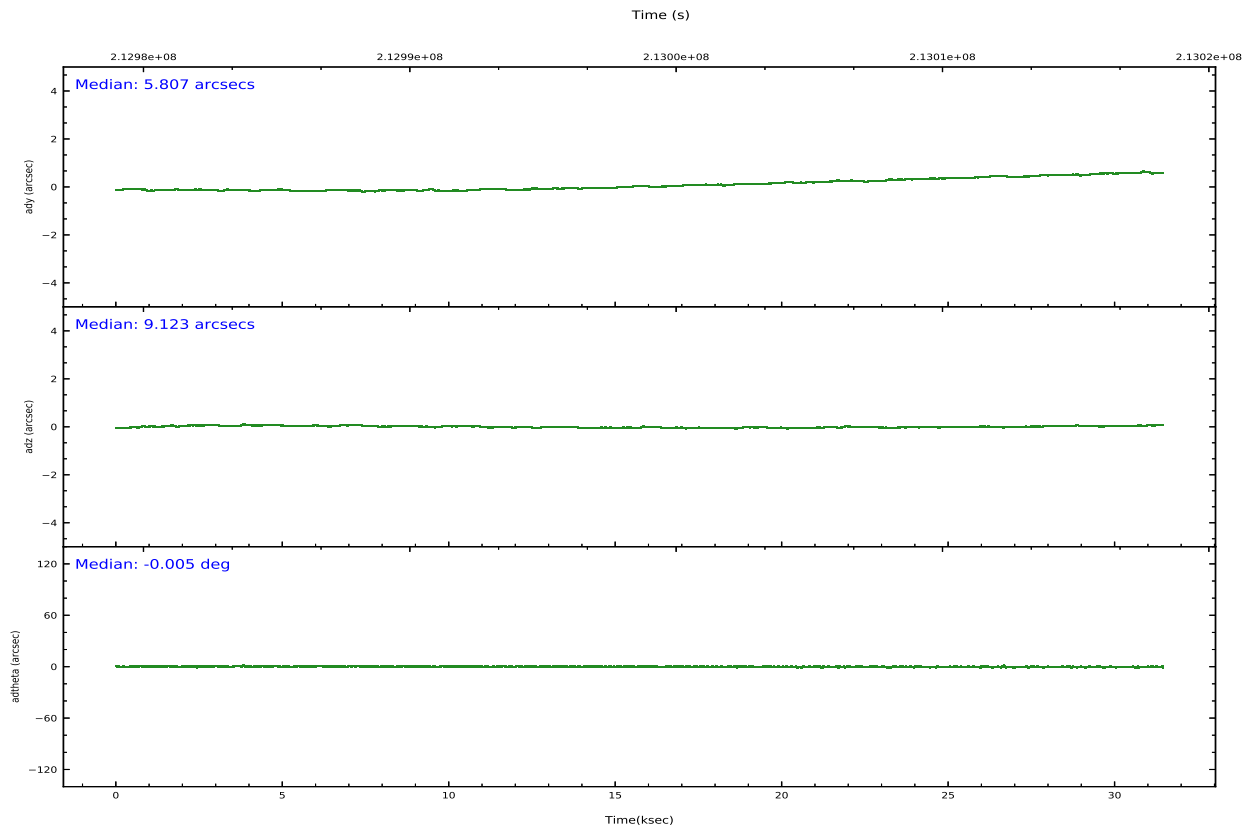
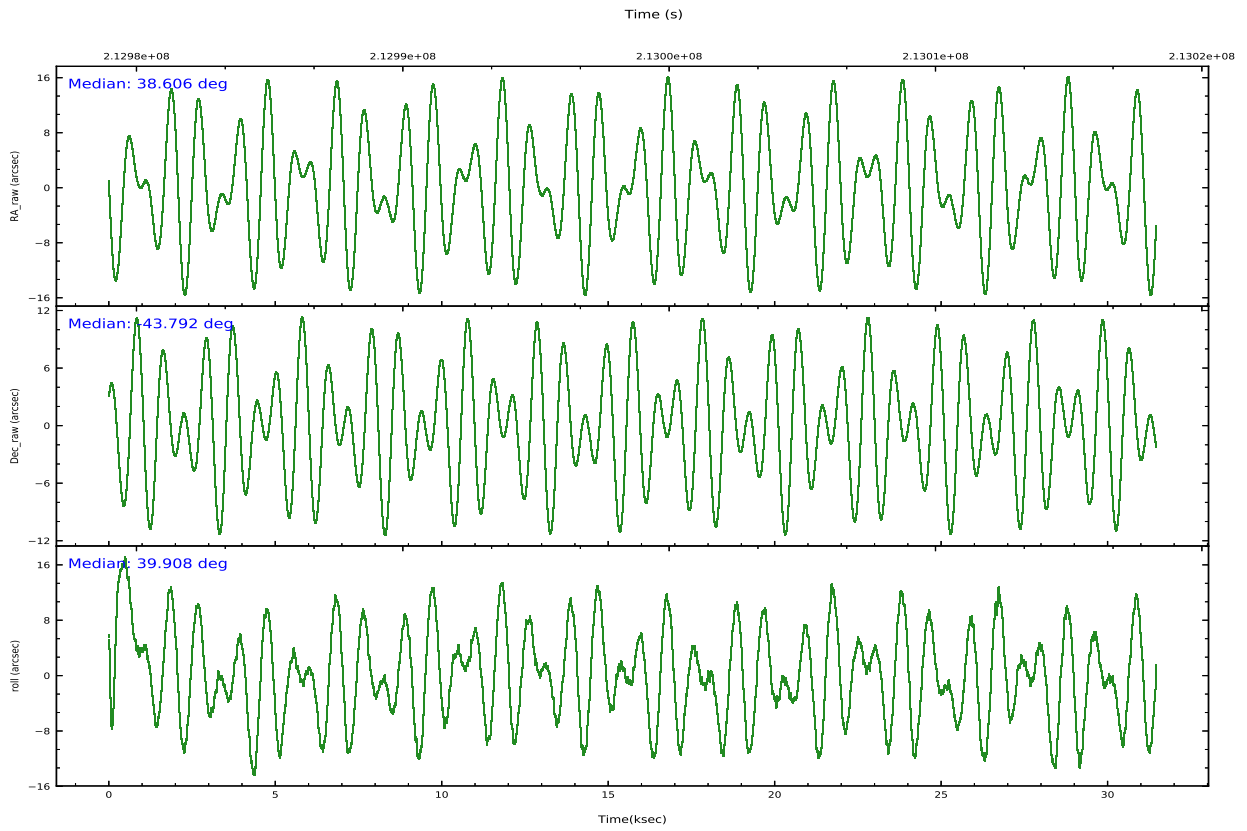
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	268591	366020	256583	334753	309016	238226	grade 0 events	22108	25977	24737	15296	30306	13650
rejected events	229820	190308	212012	188228	233891	207555		8%	7%	9%	4%	9%	5%
rejected %	85%	51%	82%	56%	75%	87%	grade 1 events	312	804	216	486	250	126
								0%	0%	0%	0%	0%	0%
							grade 2 events	6077	51893	7456	29728	14830	5656
								2%	14%	2%	8%	4%	2%
							grade 3 events	2920	6667	3298	13237	6987	3033
								1%	1%	1%	3%	2%	1%
							grade 4 events	2961	6389	3187	13376	6524	2831
								1%	1%	1%	3%	2%	1%
							grade 5 events	10349	25559	11021	31085	14177	11492
								3%	6%	4%	9%	4%	4%
							grade 6 events	4709	84808	5900	74903	16494	5508
								1%	23%	2%	22%	5%	2%
							grade 7 events	219155	163923	200768	156642	219448	195930
								81%	44%	78%	46%	71%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	38.593310	38.606143746344	Subarray requested	NONE	NONE
[deg] Pointing Dec	-43.817257	-43.794630196168	Alternating exposures requested	N	N
[deg] Pointing Roll	39.749404	39.908493252136	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.132523	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	212983628.184000	212982472.95557			
Observation start date	2004-10-01T02:06:04	2004-10-01T01:47:52			
[s] Observation end time (MET)	213014628.184000	213015116.64453			
Observation end date	2004-10-01T10:42:44	2004-10-01T10:51:56			
Read mode	TIMED	TIMED			

2.3 Aspect



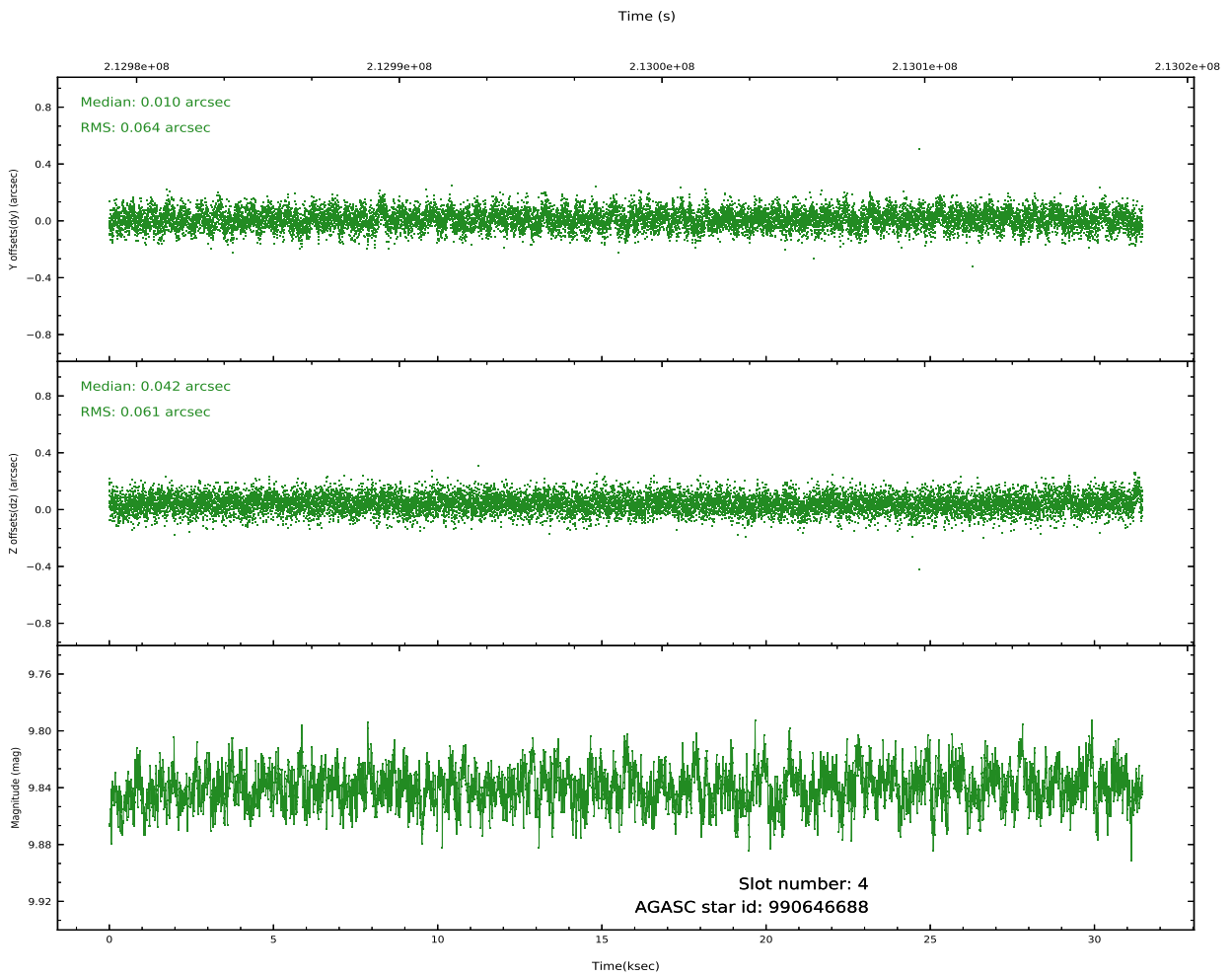
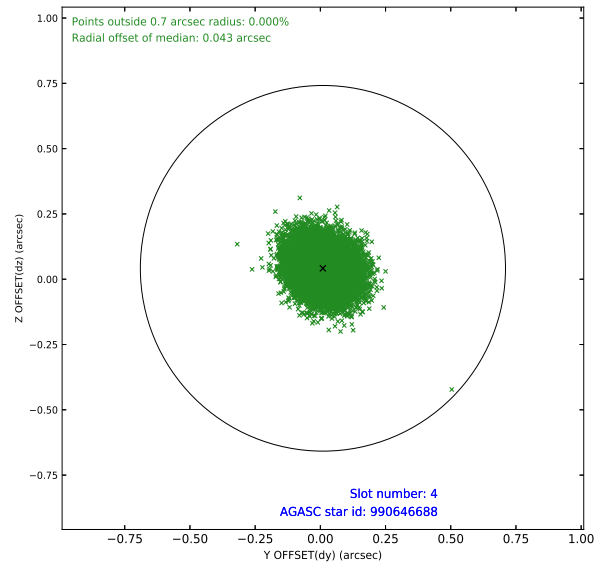
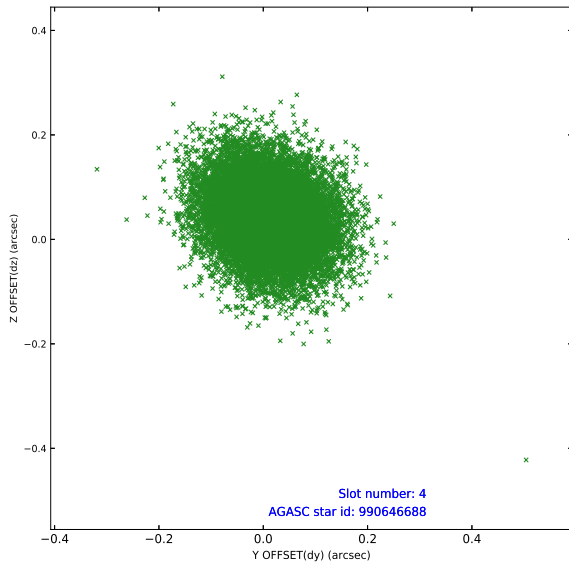


Slot Statistics

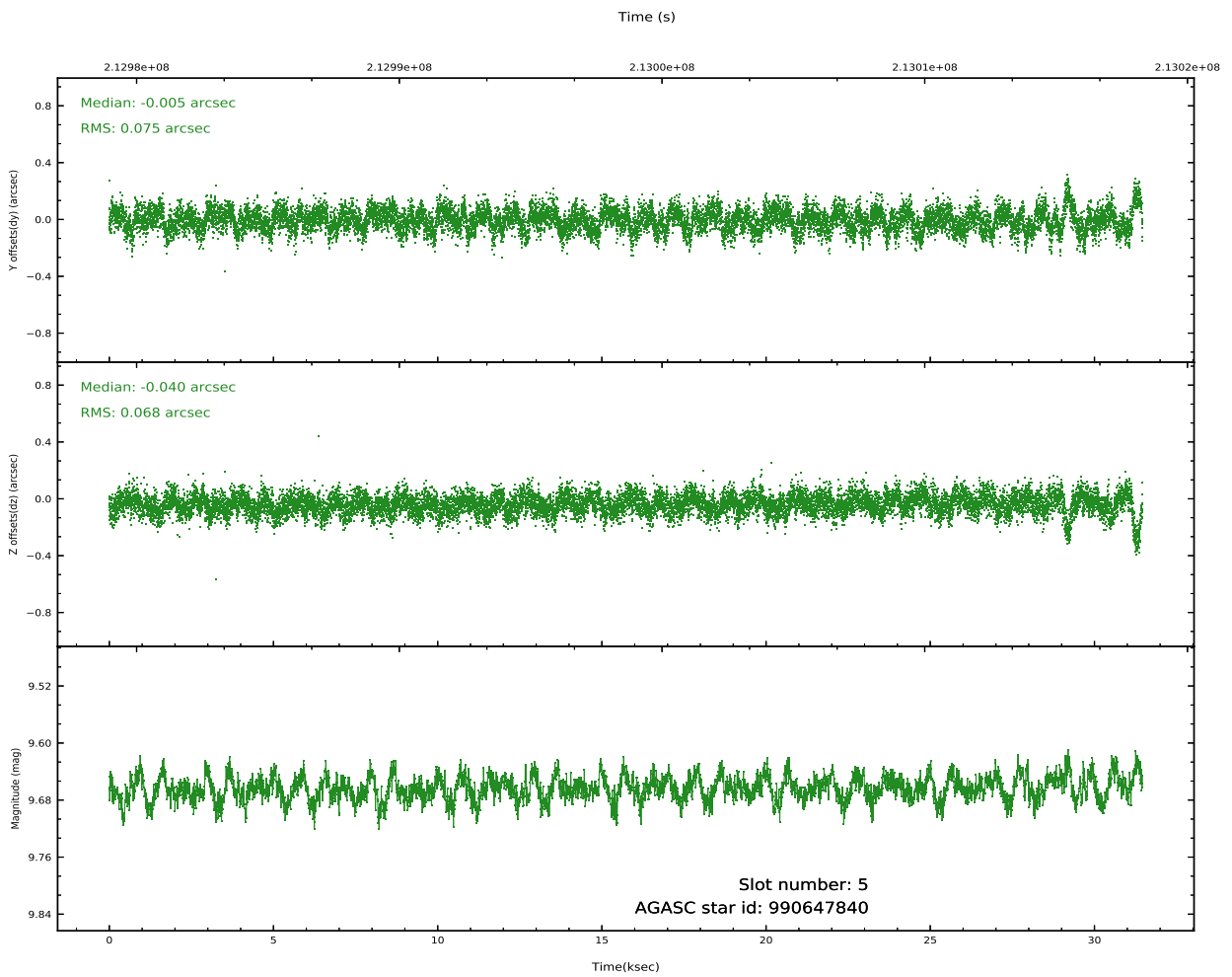
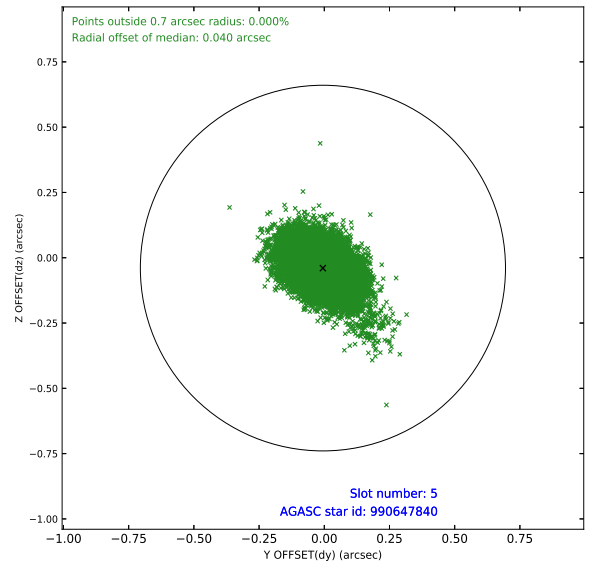
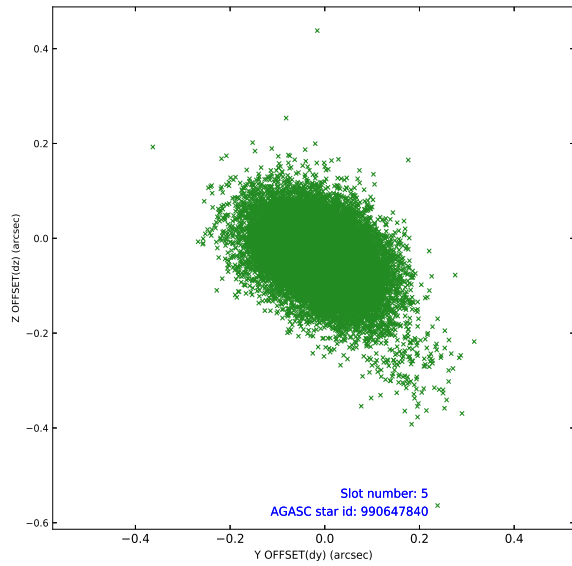
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	7673	1.000	-0.112	-0.095	0.007	0.011	0.000000	0.000000	-758.50	-1792
1	FID		ACIS-S-4	7.20	7672	1.000	0.187	0.079	0.007	0.016	0.000000	0.000000	2155.02	116
2	FID		ACIS-S-5	7.23	7674	1.000	-0.107	0.024	0.009	0.015	0.000000	0.000000	-1811.28	109
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	990646688	9.84	15328	1.000	0.010	0.042	0.094	0.153	39.195111	-43.949146	892.67	-1366
5	GUIDE	used	990647840	9.66	15332	1.000	-0.005	-0.040	0.104	0.176	39.476651	-43.890480	1586.24	-1677
6	GUIDE	used	990648904	9.32	15330	1.000	0.035	0.073	0.095	0.154	39.426522	-43.673133	1994.47	-997
7	GUIDE	used	990646896	9.06	15336	1.000	-0.035	-0.073	0.084	0.137	39.157415	-43.282359	2365.13	531

2.4 Star Slots

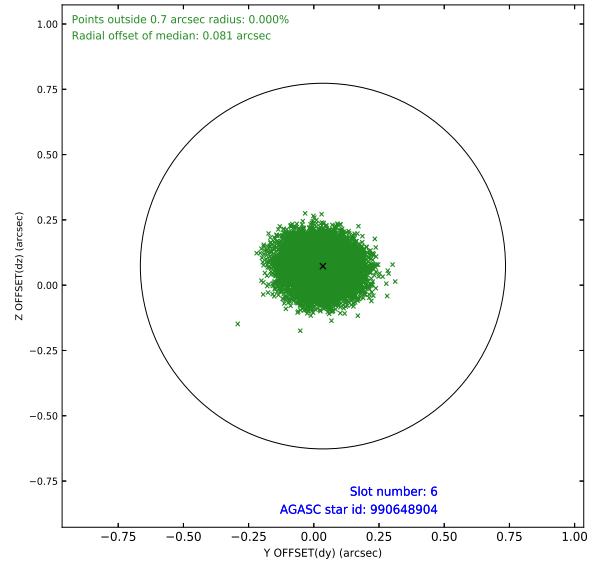
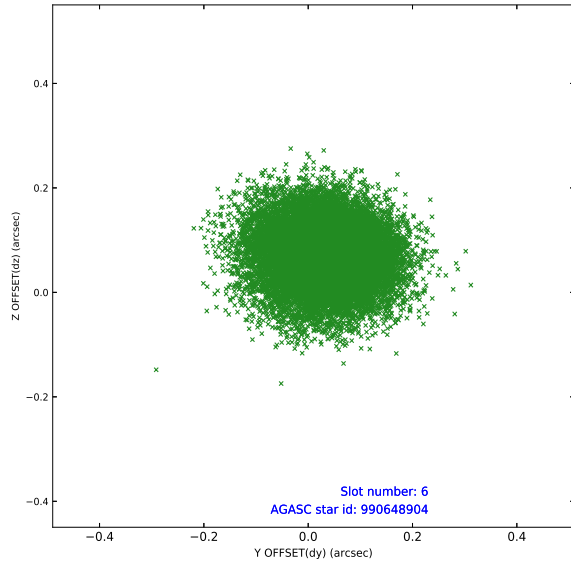
2.4.1 Slot 4



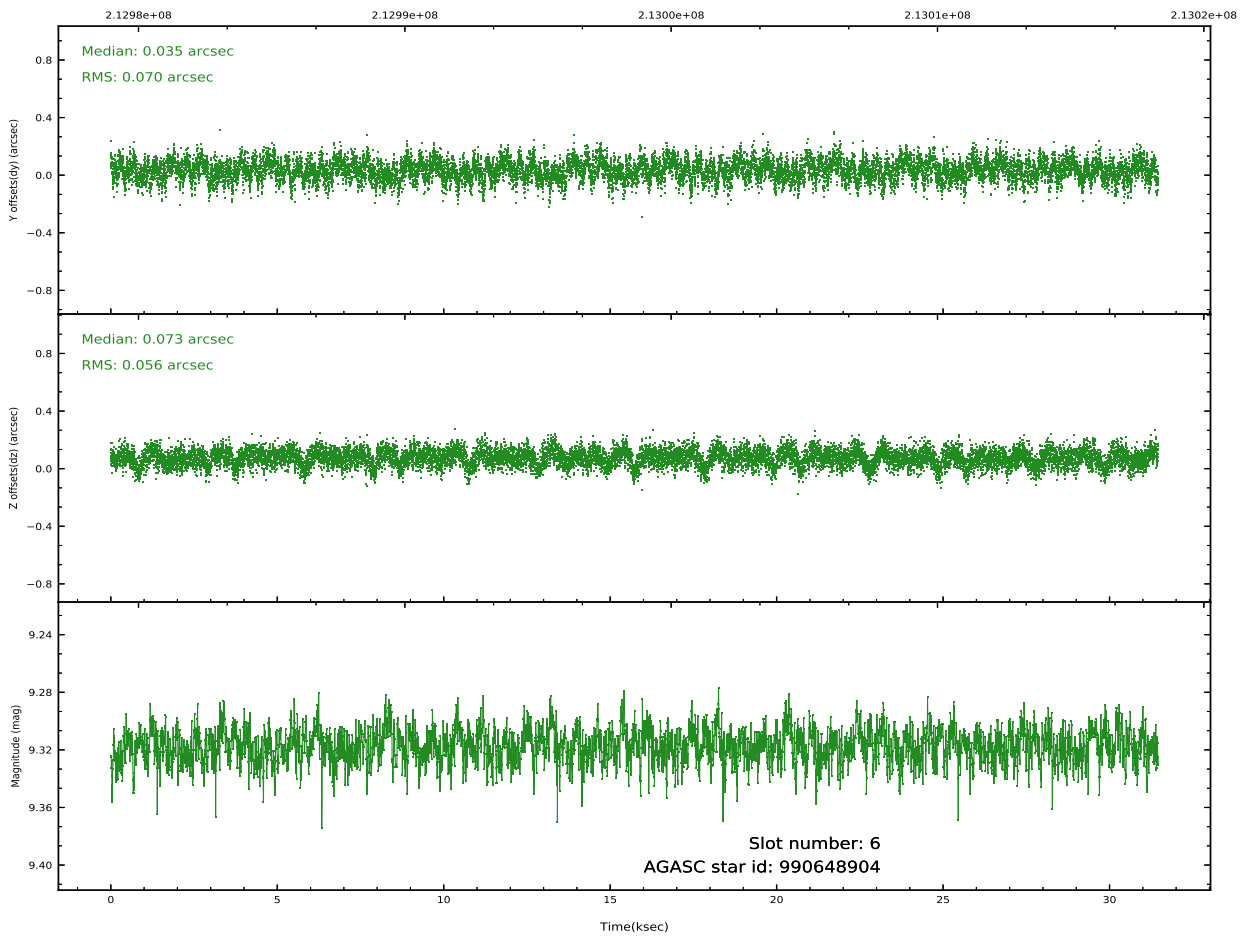
2.4.2 Slot 5



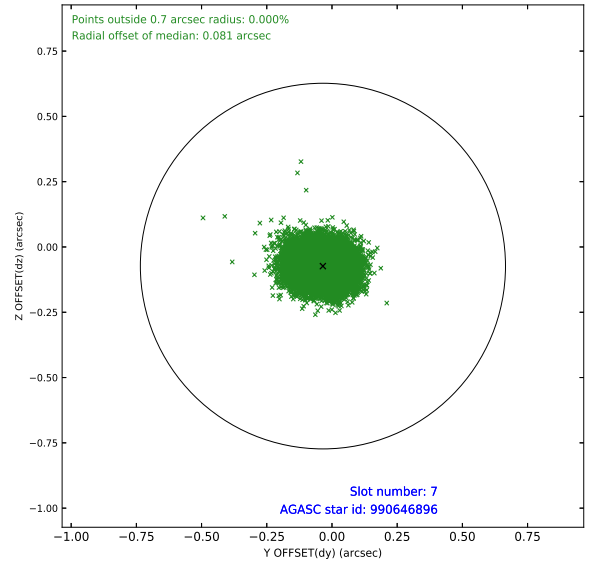
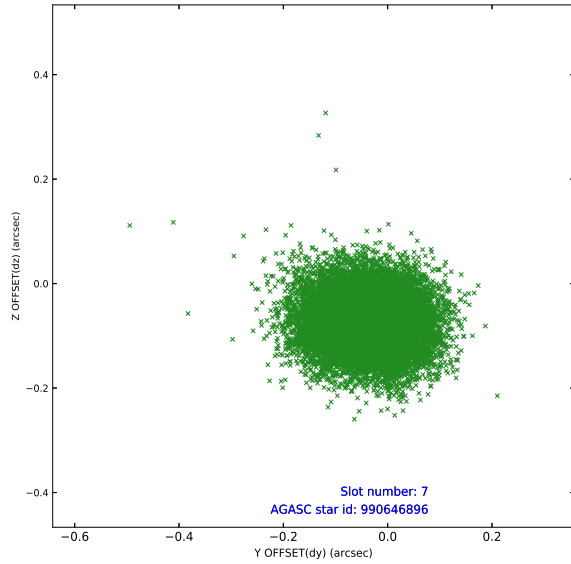
2.4.3 Slot 6



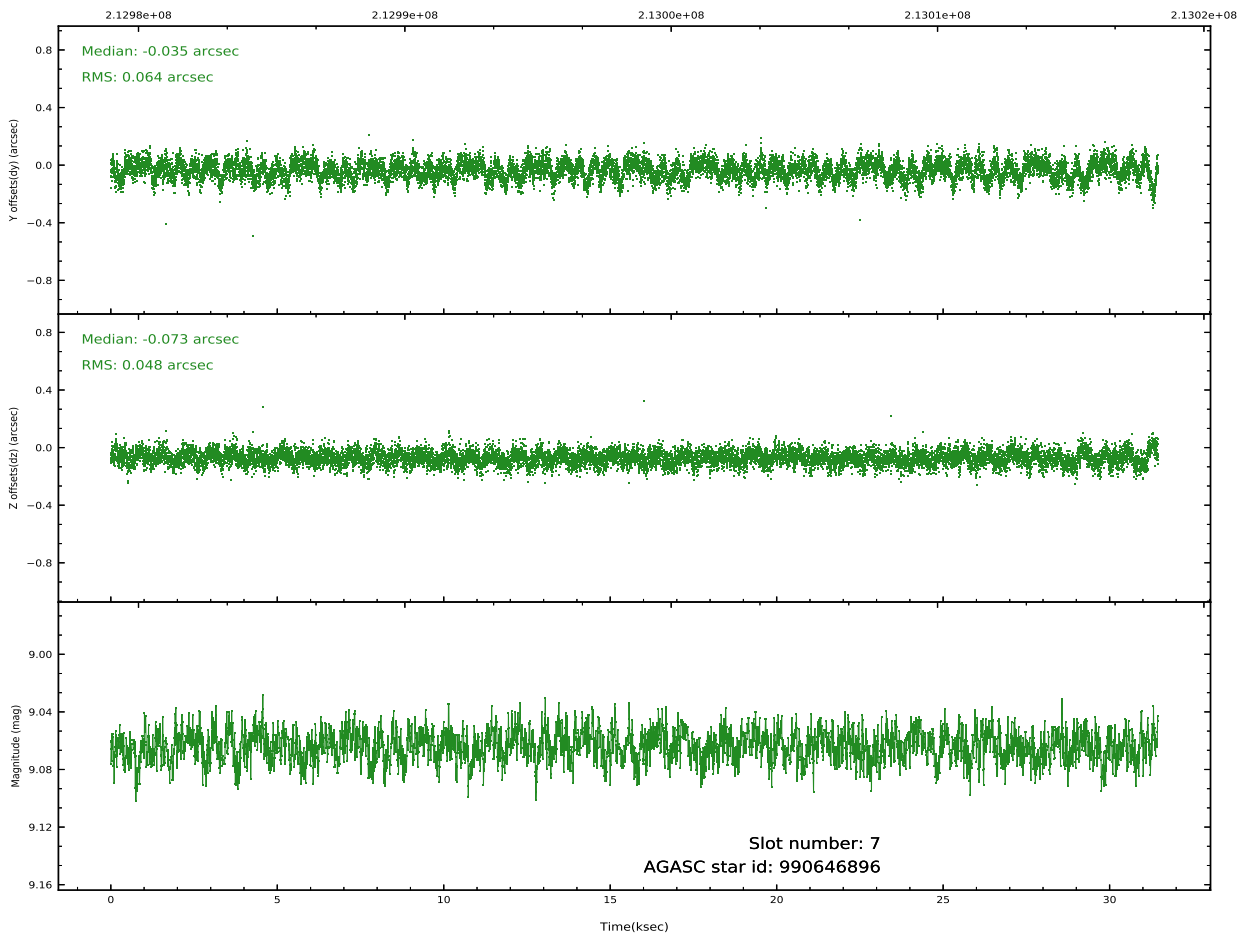
Time (s)



2.4.4 Slot 7

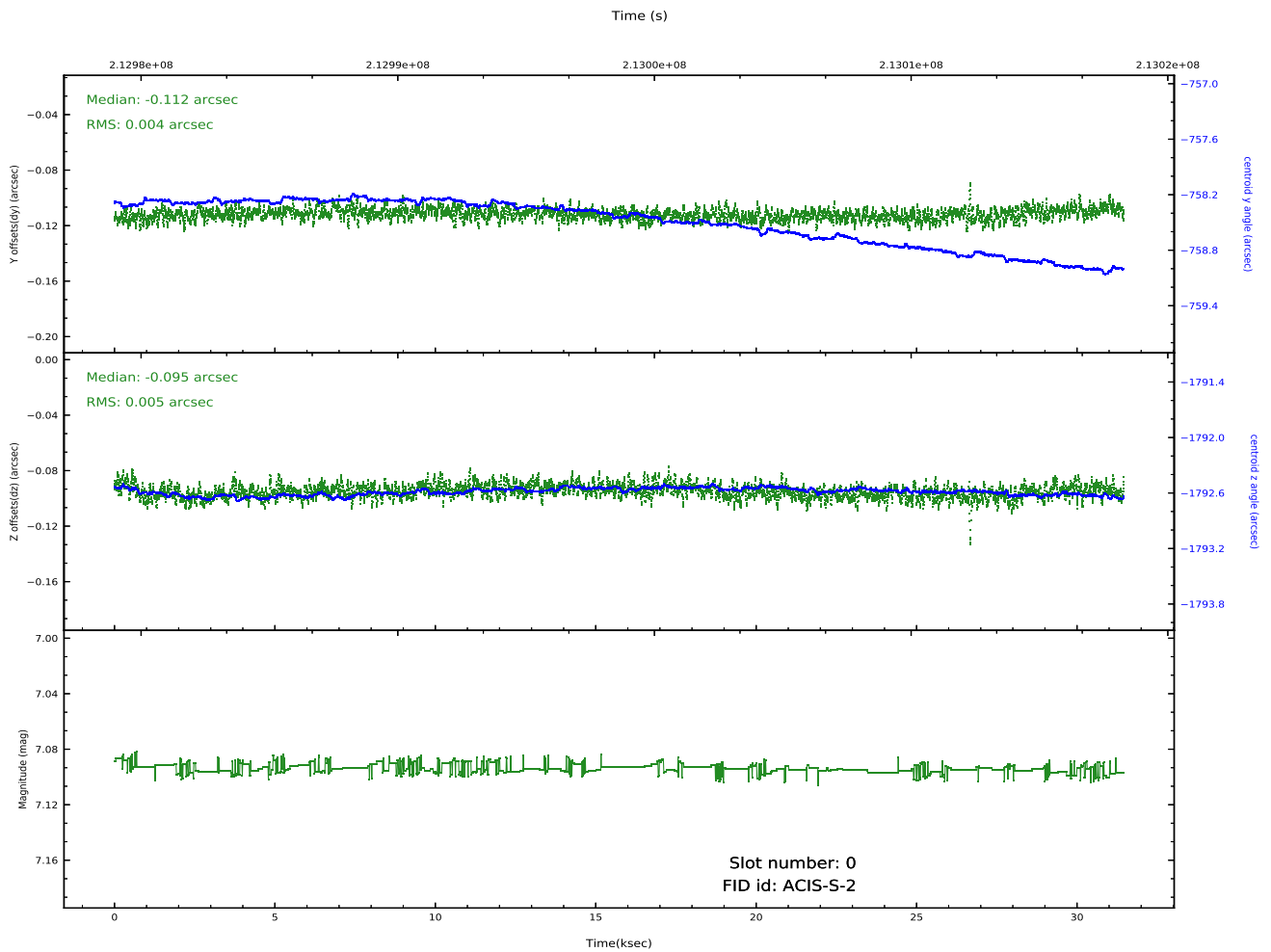
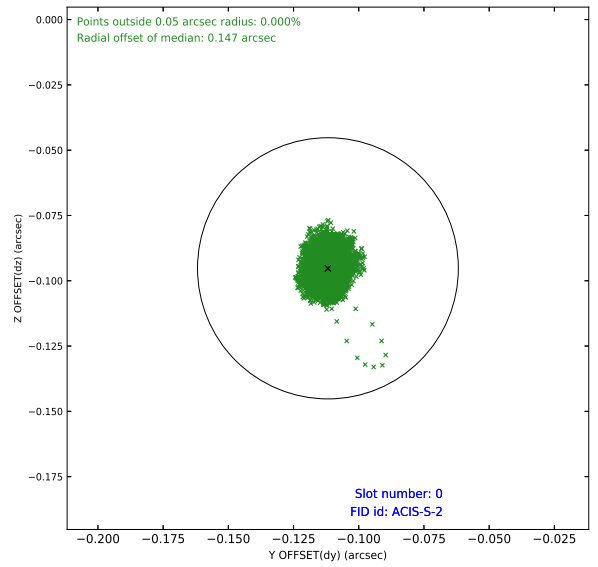
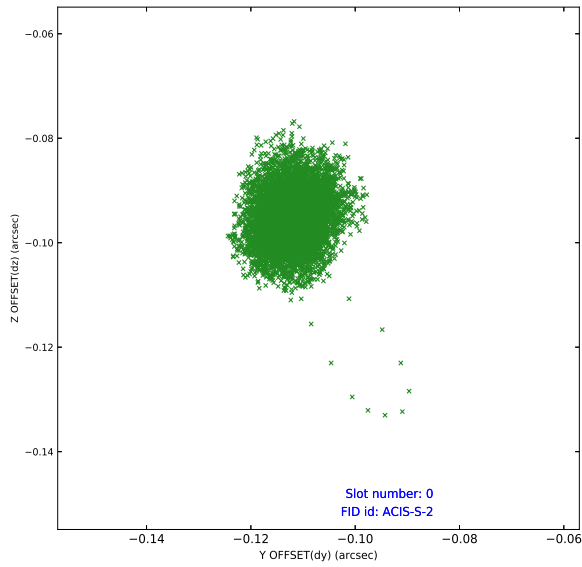


Time (s)

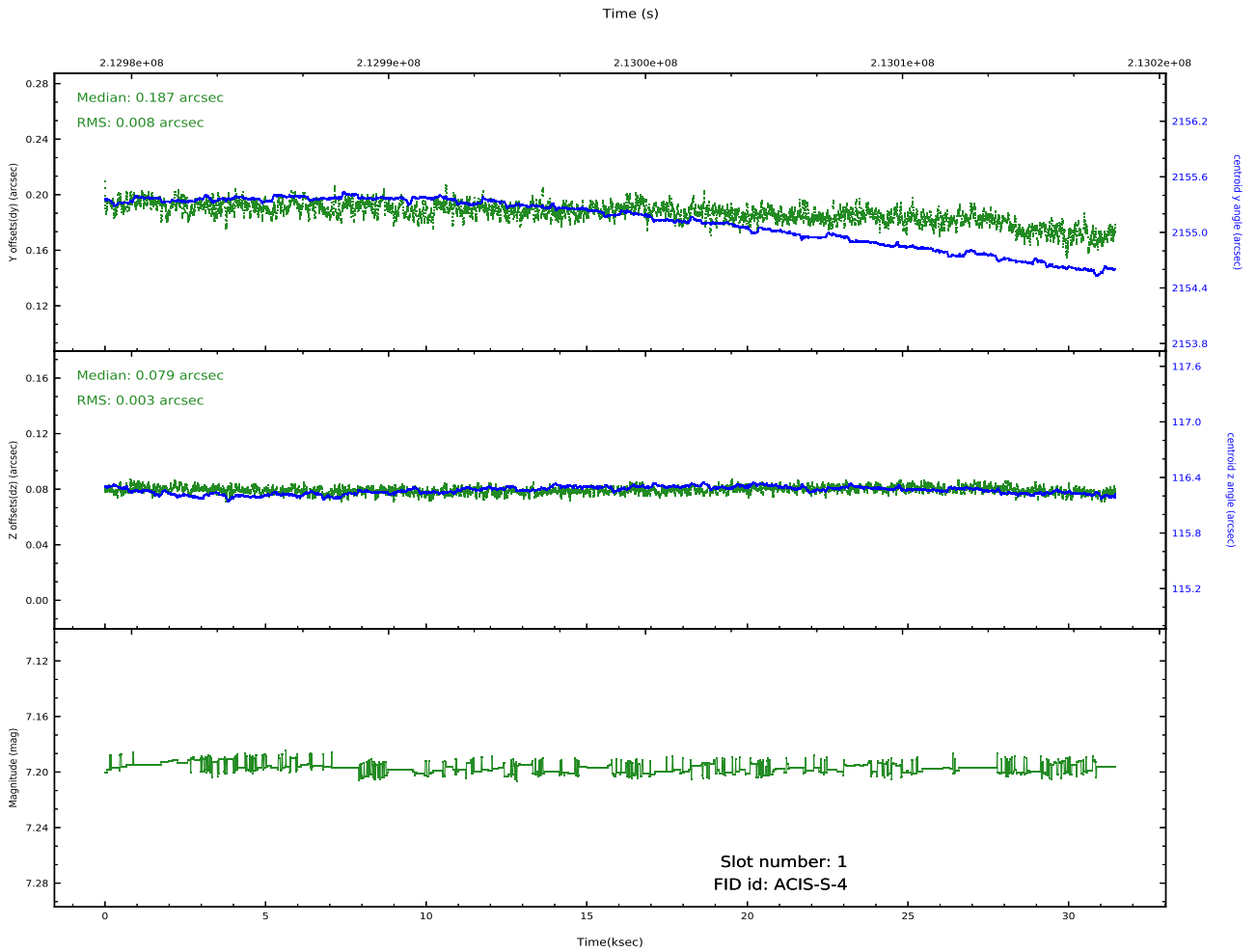
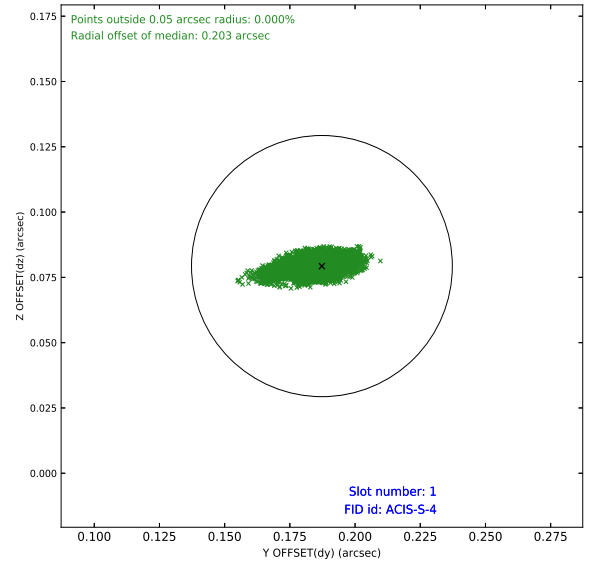
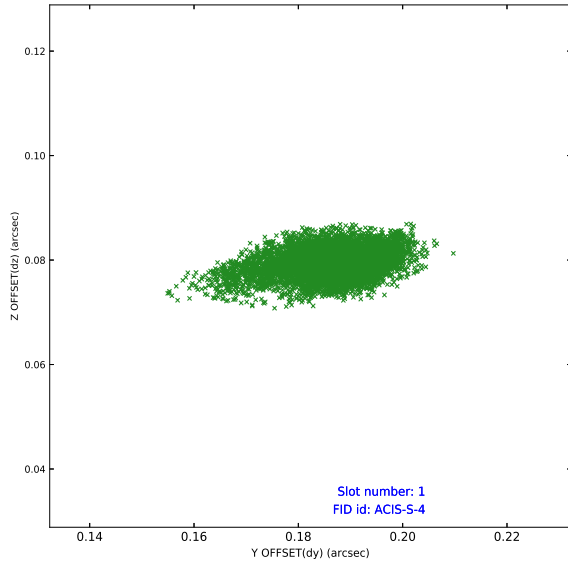


2.5 FID Slots

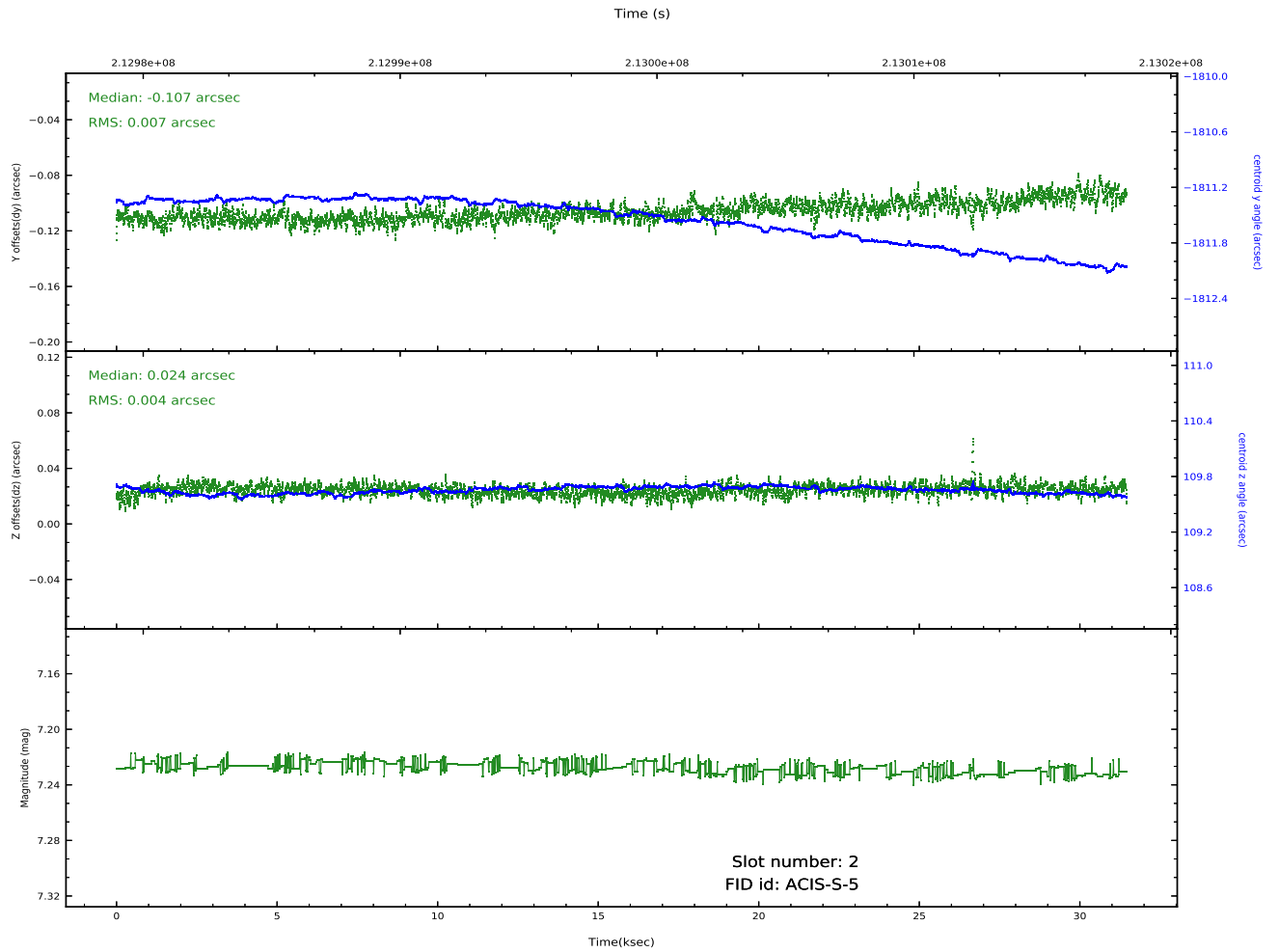
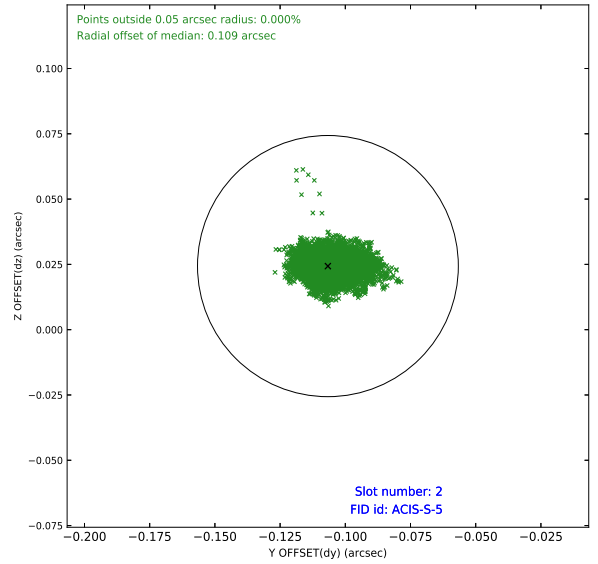
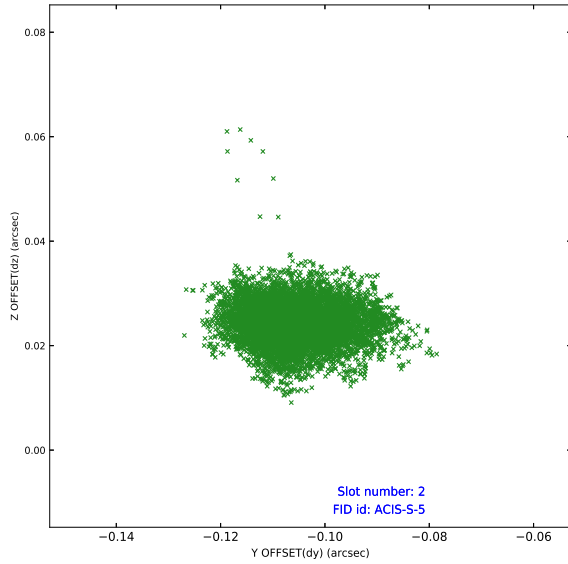
2.5.1 Slot 0



2.5.2 Slot 1

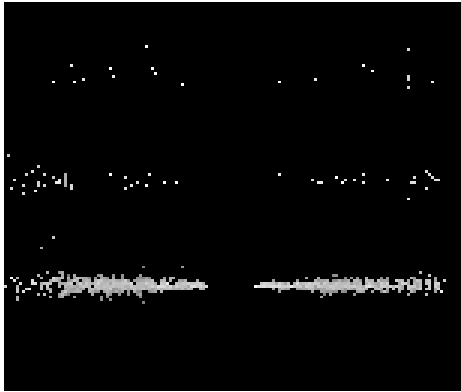


2.5.3 Slot 2

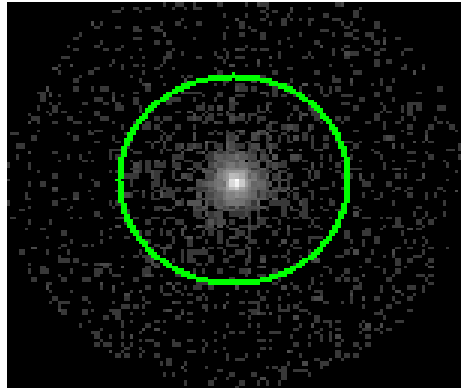


3 Gratings

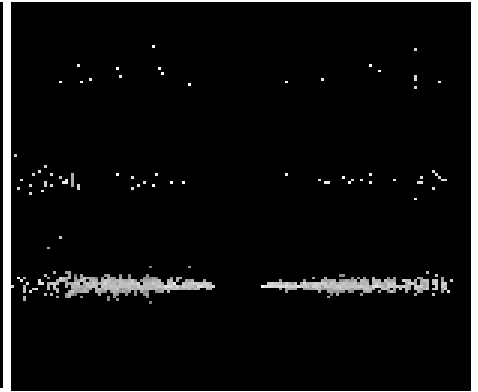
3.1 HEG Arm



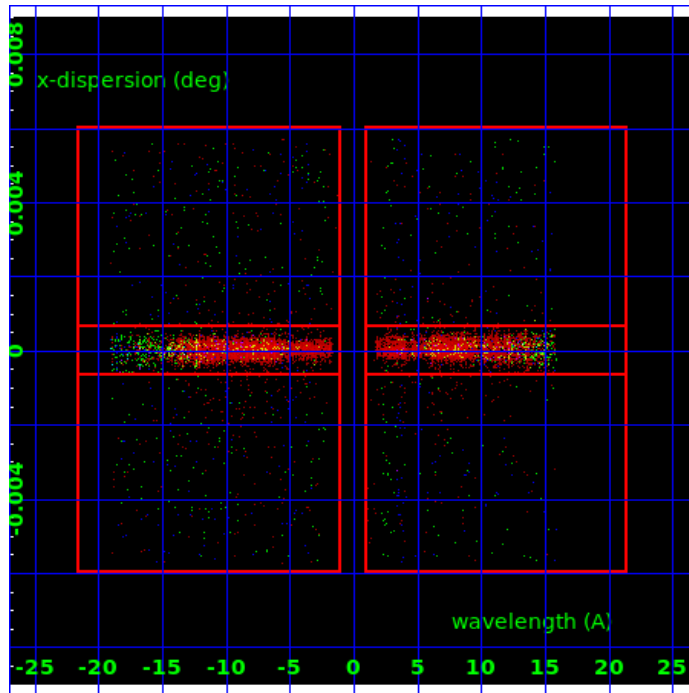
HEG Order Sort 123



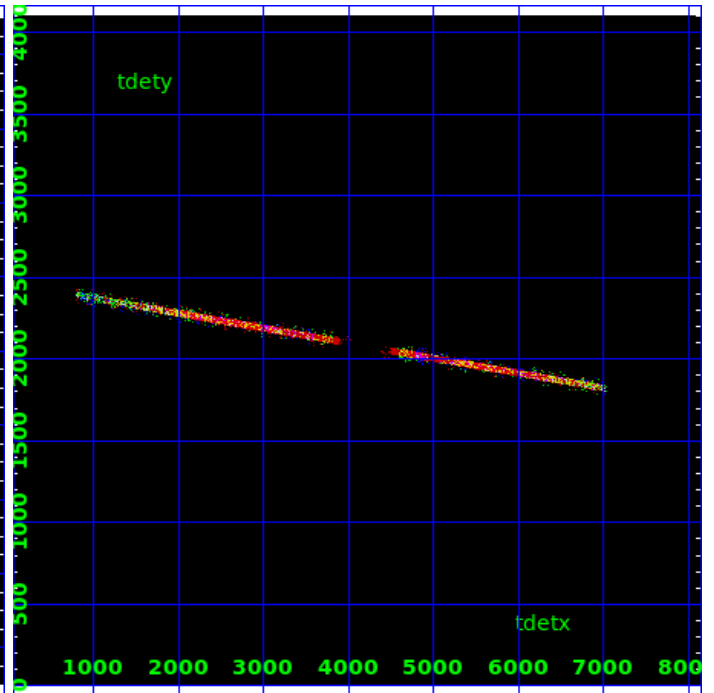
HEG Zero Order



HEG Order Sort ALL

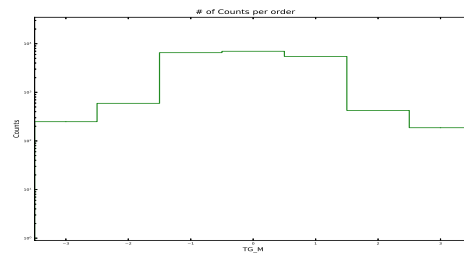


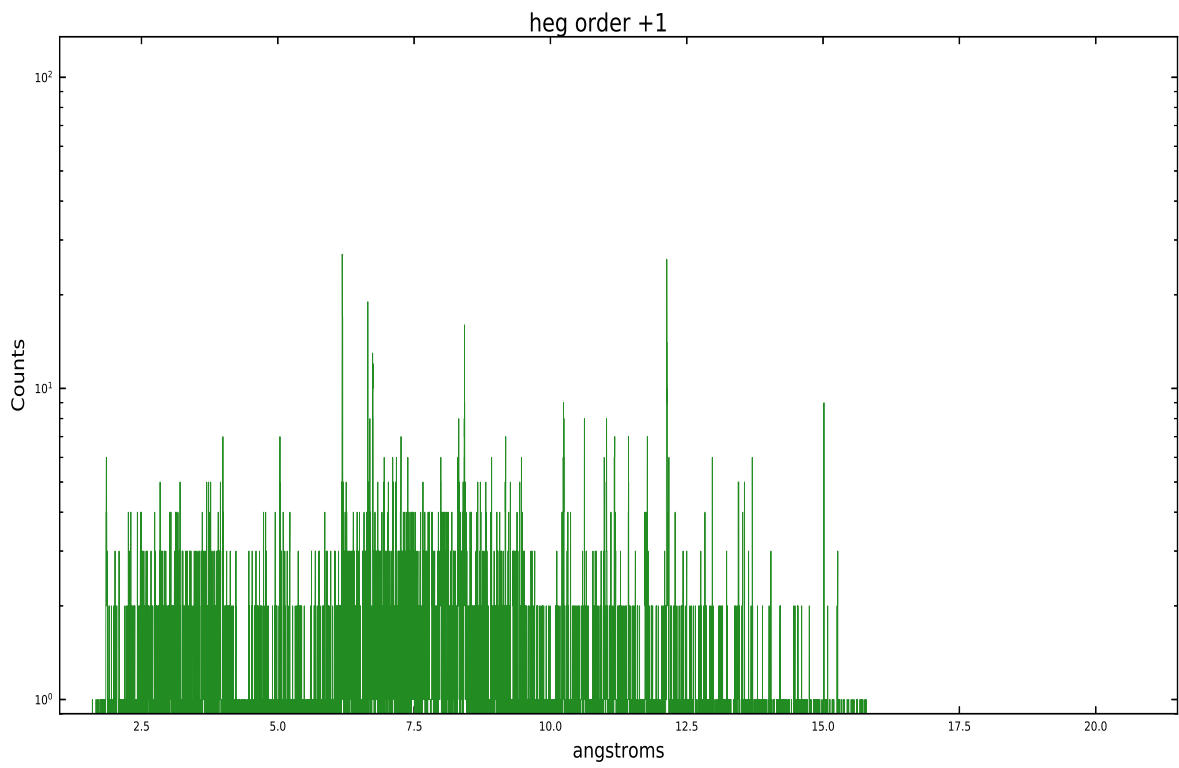
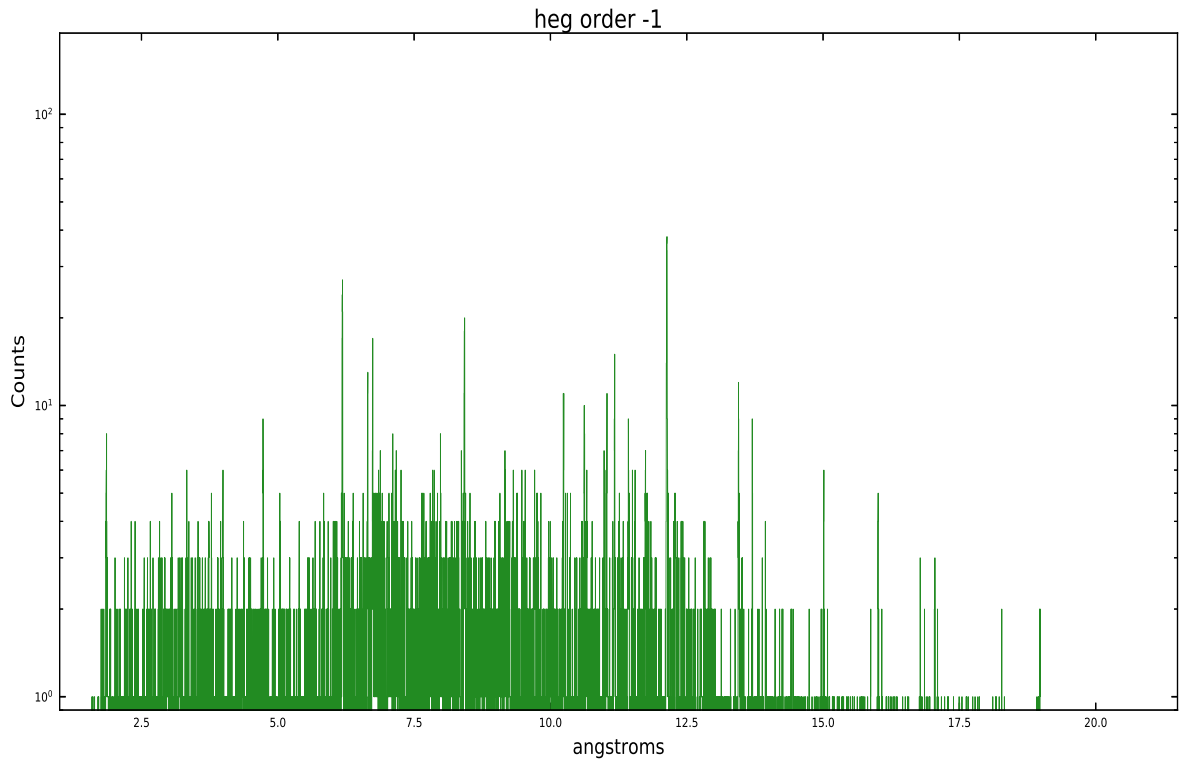
Spot Image HEG



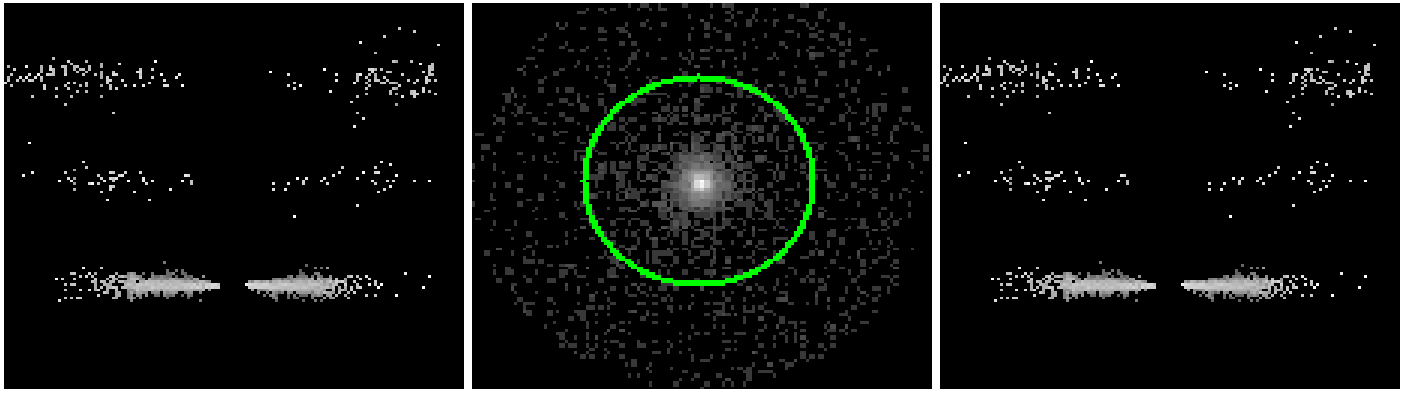
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	249	593	6539	6981	5470	424	187





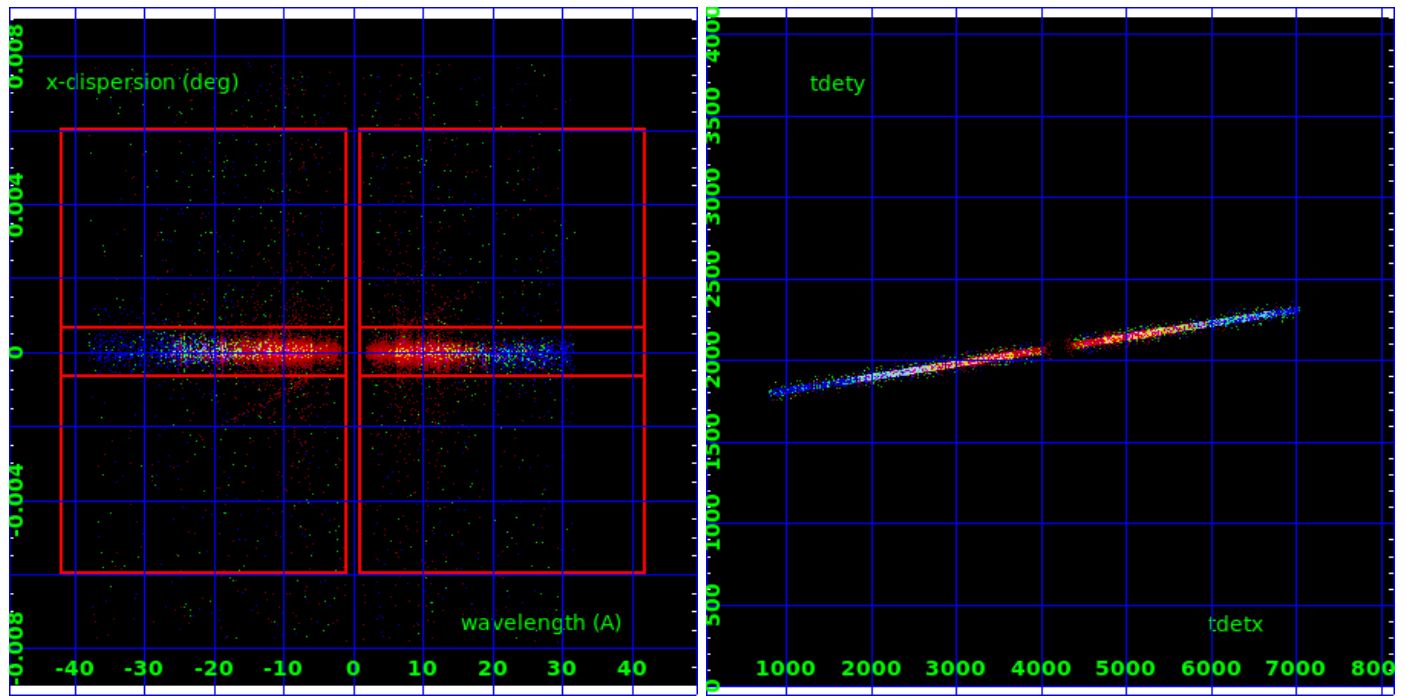
3.2 MEG Arm



MEG Order Sort 123

MEG Zero Order

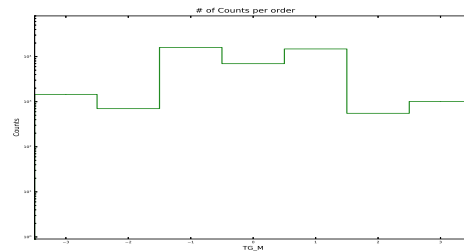
MEG Order Sort ALL

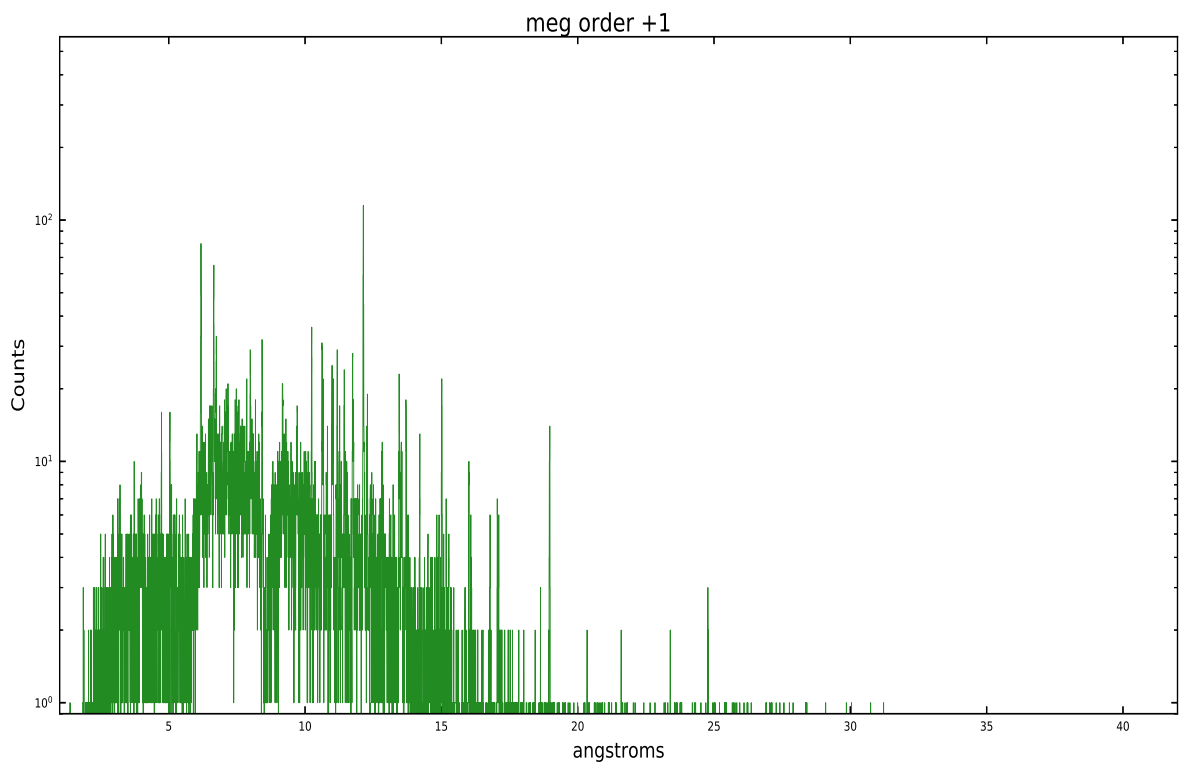
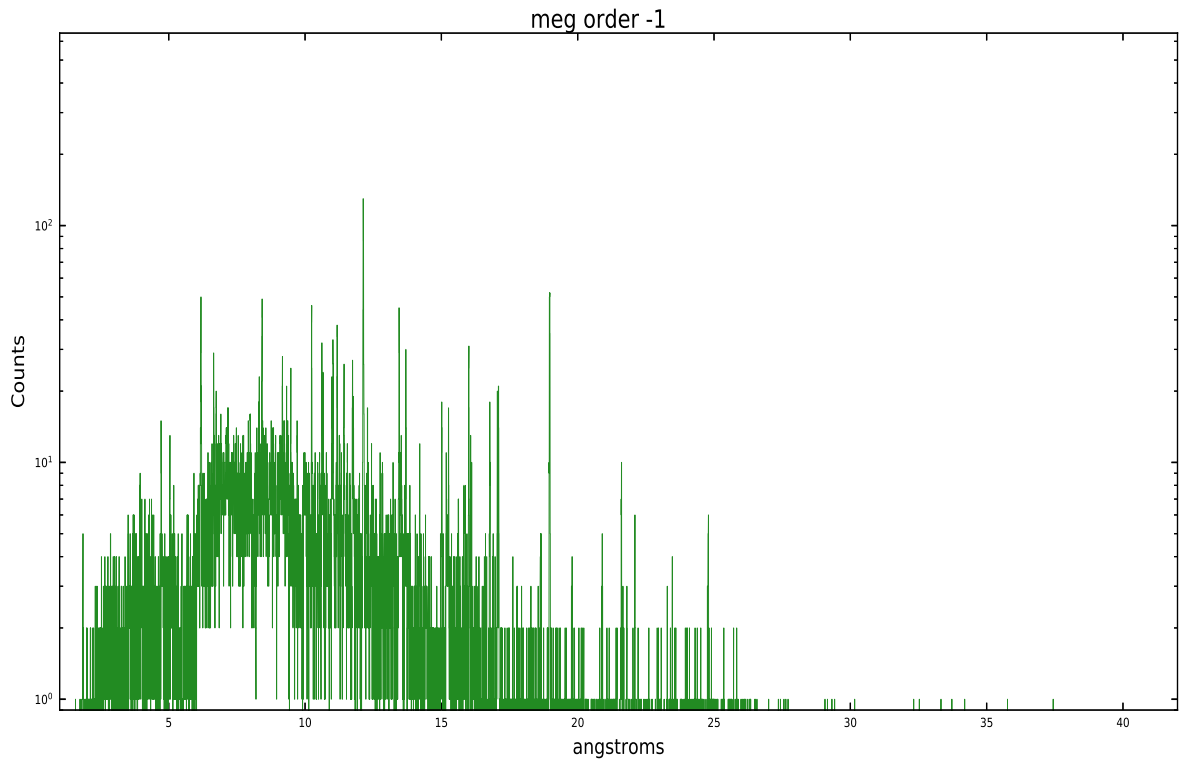


Spot Image MEG

Full Detector MEG

	order	order	order	order	order	order	order
	-3	-2	-1	0	1	2	3
Events	1452	702	15999	6981	14806	552	1015





A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.953

A.2 Comments