

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6265 - L2 Version 4
Chandra X-Ray Center

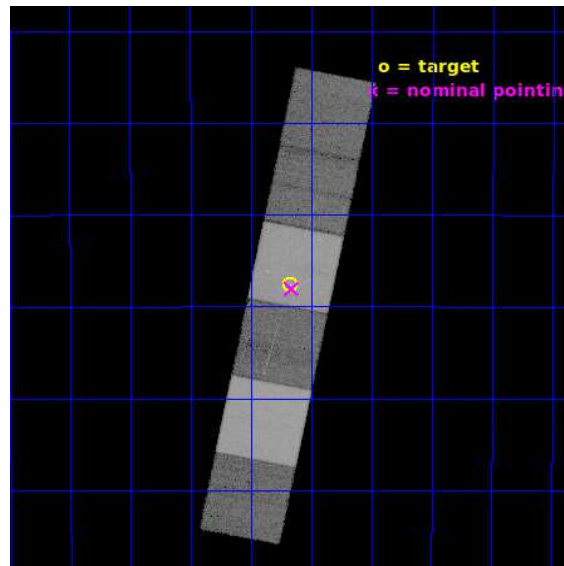
L2 Processing Date : Oct 9 2020

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1 Front

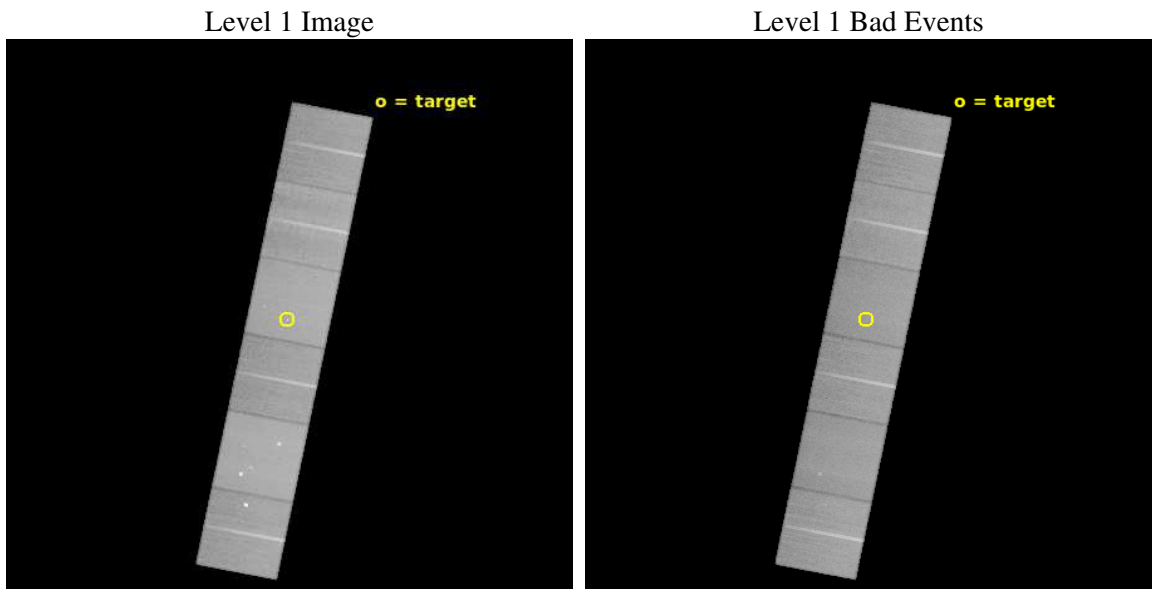
seq_num	200356	Sequence number
obs_id	6265	Observation id
title	The Production of X-ray Emission in Classical Tauri Stars	Propos
observer	Dr. Gregory Herczeg	Principal investigator
object	V4046 Sgr	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	273.54375	Observer's specified target RA [deg]
dec_targ	-32.792917	Observer's specified target Dec [deg]
ra_nom	273.54002866136	Nominal RA [deg]
dec_nom	-32.800884924441	Nominal Dec [deg]
roll_nom	281.29128101186	Nominal Roll [deg]
revision	4	Processing version of data
ontime	46456.169252634	Sum of GTIs [s]
livetime	45867.91326501	Livetime [s]
ontime4	46456.210292637	Sum of GTIs [s]
ontime5	46456.128212631	Sum of GTIs [s]
ontime6	46456.087172627	Sum of GTIs [s]
ontime7	46456.169252634	Sum of GTIs [s]
ontime8	46456.046132624	Sum of GTIs [s]
ontime9	46452.764092475	Sum of GTIs [s]
l2events	527110	Number of level 2 events



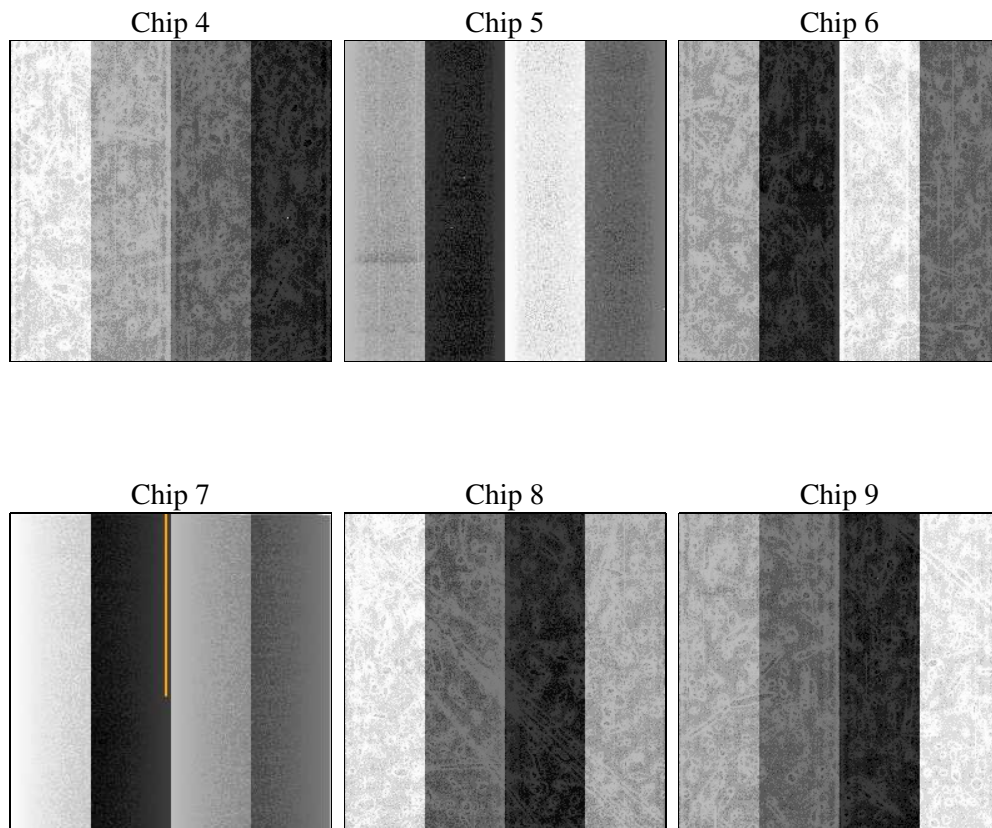
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	46456.169252634	Sum of GTIs [s]
caldbver	4.9.2	 	ontime4	46456.210292637	Sum of GTIs [s]
date	2020-10-09T18:37:44	Date and time of file creation	ontime5	46456.128212631	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	46456.087172627	Sum of GTIs [s]
			ontime7	46456.169252634	Sum of GTIs [s]
			ontime8	46456.046132624	Sum of GTIs [s]
			ontime9	46452.764092475	Sum of GTIs [s]
			l1events	2382468	Number of level 1 events
			tgmetho	TGDETECT	Method used to create src1a file
			z	(4074.52, 4154.00)	src1a sky pixel position

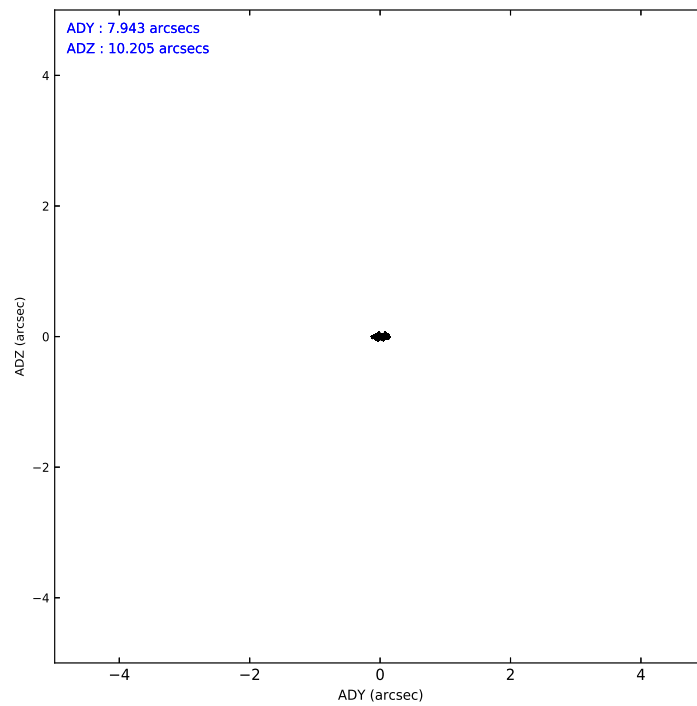
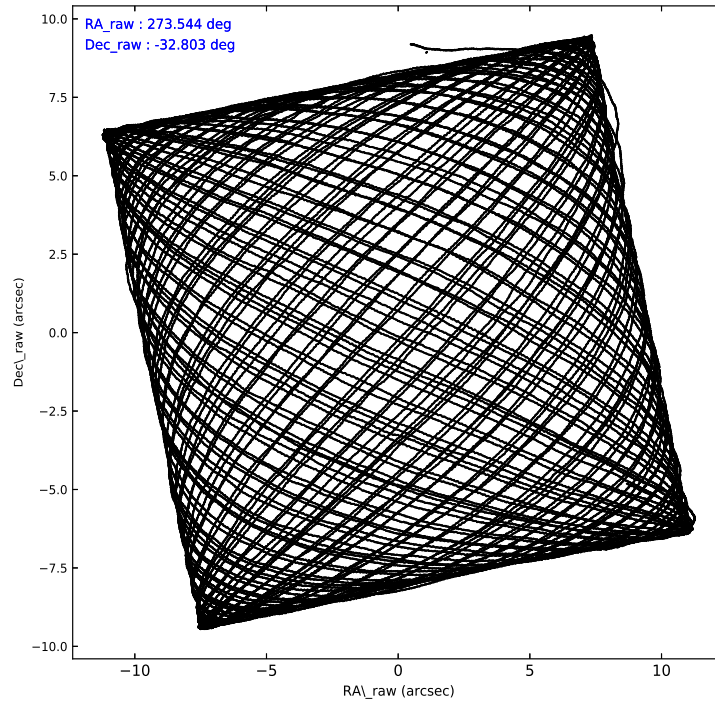
2.1.4 Events

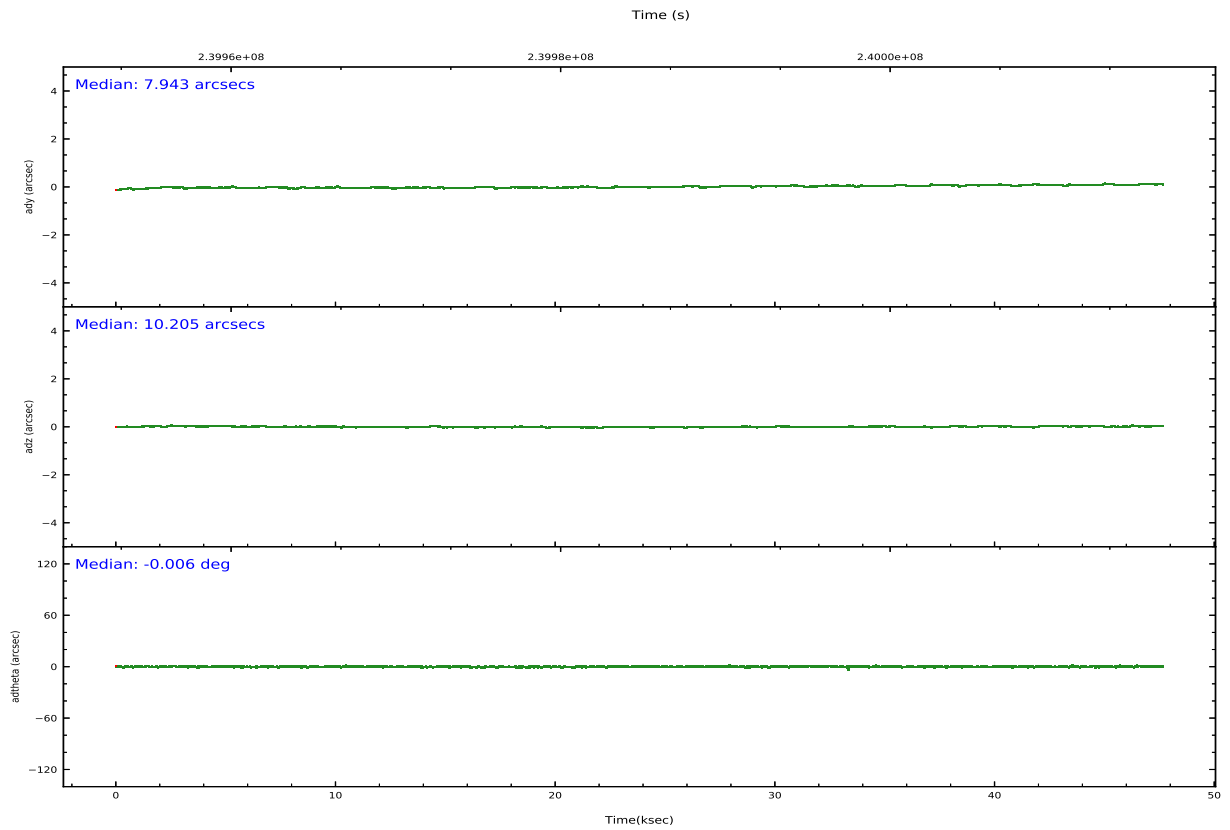
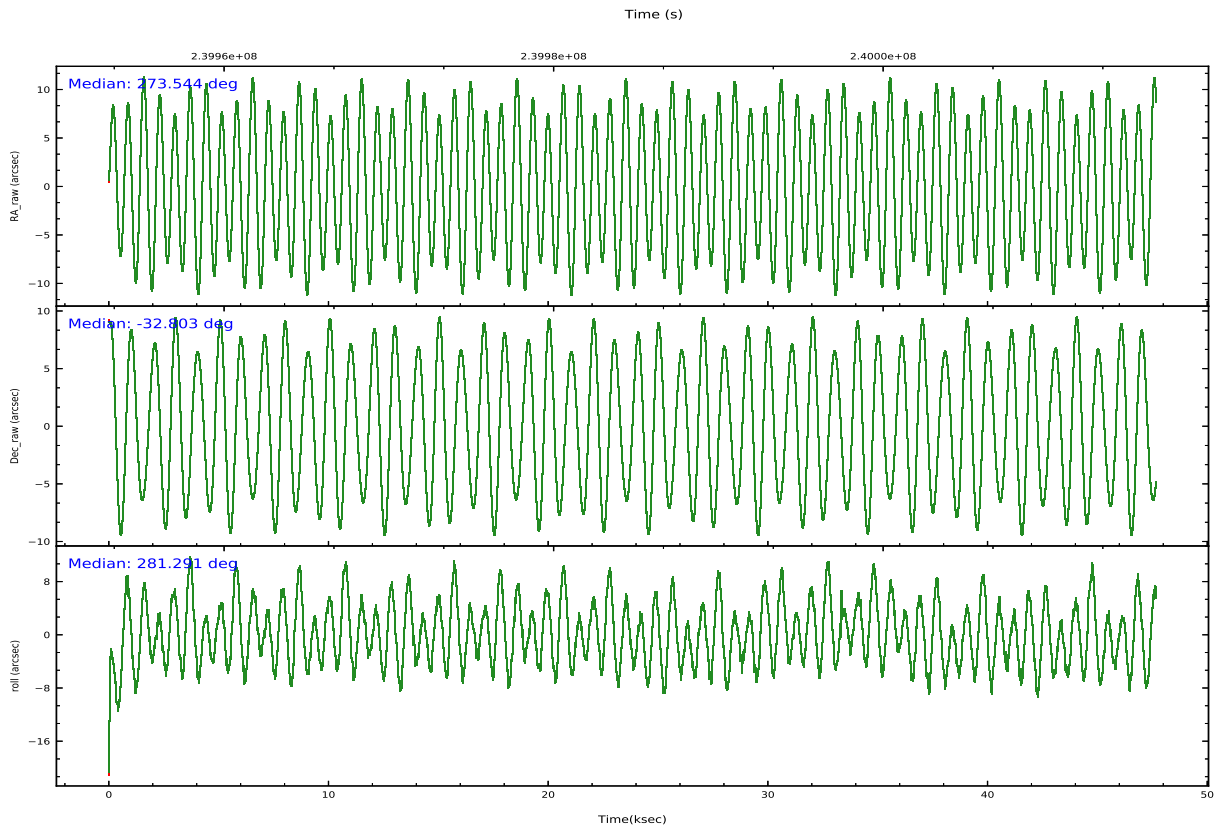
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	374563	493784	327651	448136	412467	325867	grade 0 events	28365	22059	15887	16550	28100	16553
rejected events	323047	269615	287636	262630	324503	285770		7%	4%	4%	3%	6%	5%
rejected %	86%	54%	87%	58%	78%	87%	grade 1 events	352	1349	157	438	287	185
								0%	0%	0%	0%	0%	0%
							grade 2 events	8411	67110	8461	36992	19305	7875
								2%	13%	2%	8%	4%	2%
							grade 3 events	4212	8178	3768	16259	9115	3932
								1%	1%	1%	3%	2%	1%
							grade 4 events	4008	7743	3722	16350	8527	3872
								1%	1%	1%	3%	2%	1%
							grade 5 events	14873	34861	15404	42740	20441	16548
								3%	7%	4%	9%	4%	5%
							grade 6 events	6521	119091	8181	99367	22919	7866
								1%	24%	2%	22%	5%	2%
							grade 7 events	307821	233393	272071	219440	303773	269036
								82%	47%	83%	48%	73%	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	273.522290	273.54002866136	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.782374	-32.800884924441	Alternating exposures requested	N	N
[deg] Pointing Roll	281.122184	281.29128101186	[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	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	239960927.184000	239959330.27741			
Observation start date	2005-08-09T07:47:43	2005-08-09T07:22:10			
[s] Observation end time (MET)	240007427.184000	240008450.32967			
Observation end date	2005-08-09T20:42:43	2005-08-09T21:00:50			
Read mode	TIMED	TIMED			

2.3 Aspect





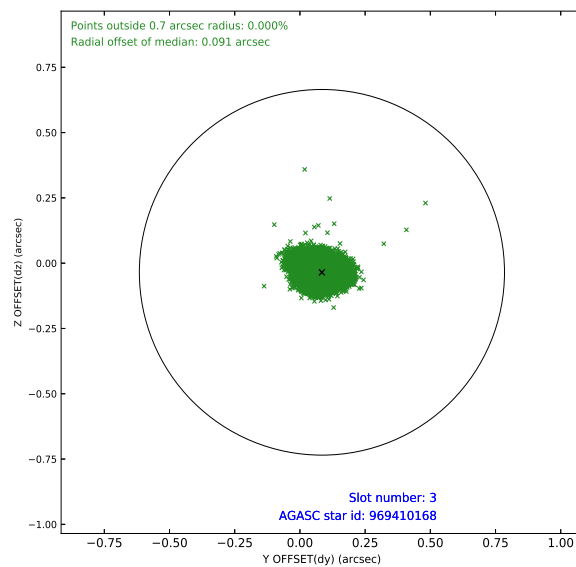
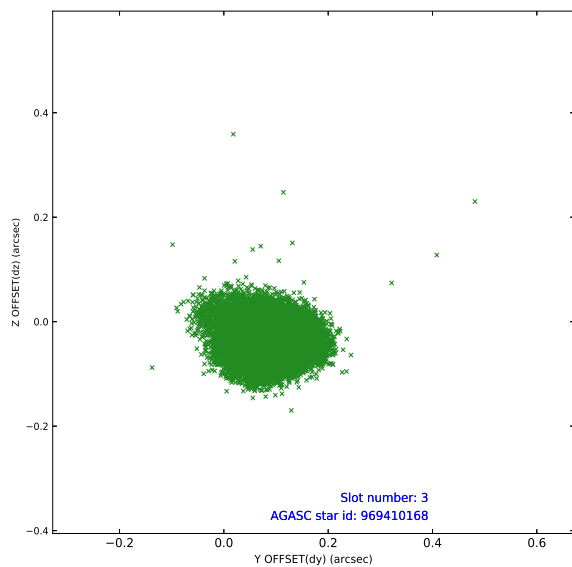
Slot Statistics

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	7.10	11629	1.000	-0.124	-0.103	0.007	0.012	0.000000	0.000000	-760.80	-1731
1	FID		ACIS-S-4	7.21	11629	1.000	0.115	0.058	0.007	0.012	0.000000	0.000000	2152.66	177
2	FID		ACIS-S-6	7.35	11626	1.000	-0.018	0.051	0.007	0.012	0.000000	0.000000	401.20	814
3	GUIDE	used	969410168	7.39	23251	1.000	0.084	-0.035	0.060	0.095	273.917435	-33.091571	1324.66	954
4	GUIDE	used	969410512	7.77	23257	1.000	-0.251	0.069	0.042	0.070	273.701392	-32.213017	-1905.46	930
5	GUIDE	used	969412944	8.60	23254	1.000	0.058	-0.066	0.068	0.109	273.273913	-32.720895	-361.12	-695
6	GUIDE	used	969415768	9.12	23240	1.000	-0.116	-0.150	0.115	0.173	272.909685	-32.404195	-1689.55	-1565
7	GUIDE	used	969423304	9.16	23218	1.000	0.229	0.183	0.089	0.141	274.359501	-33.253694	2161.29	2144

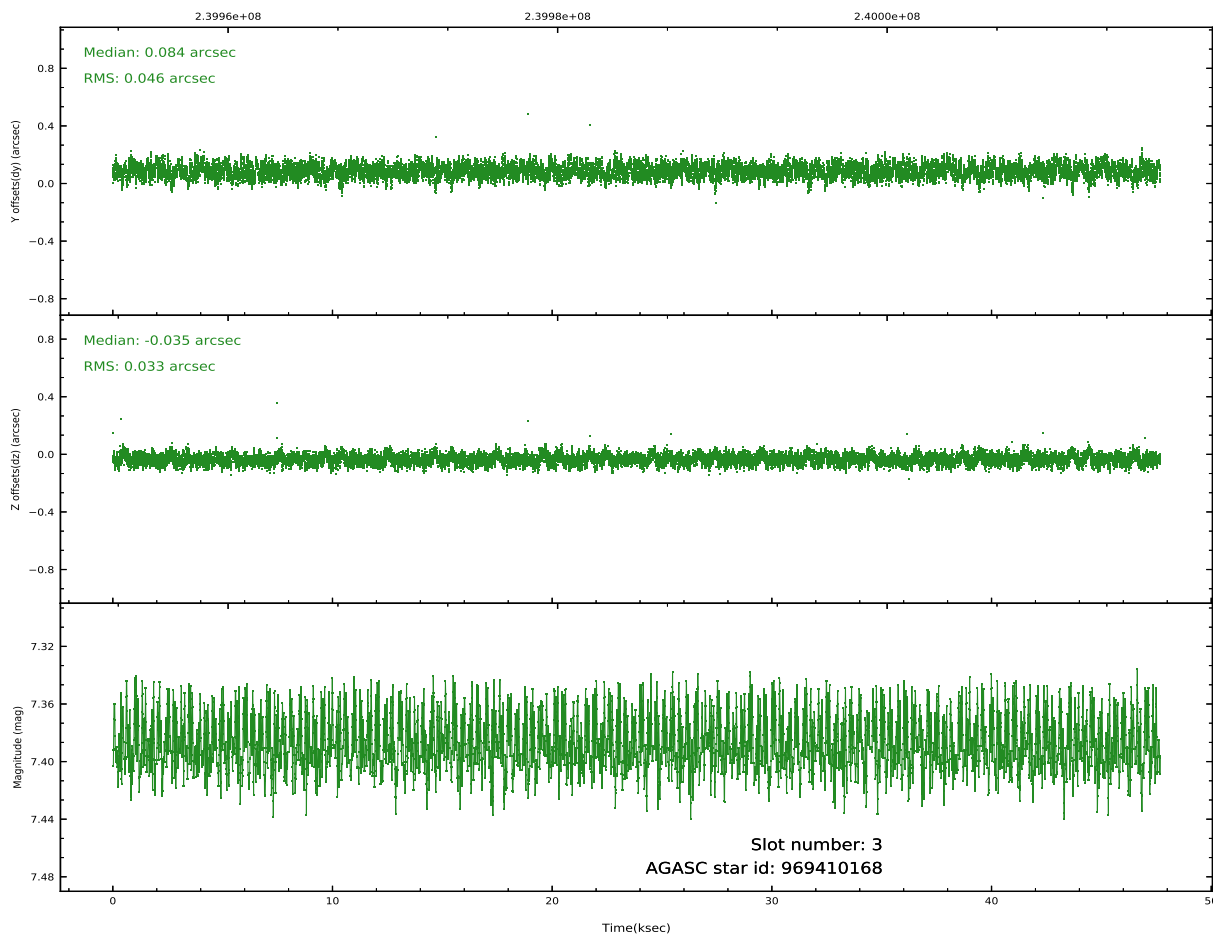
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2.4 Star Slots

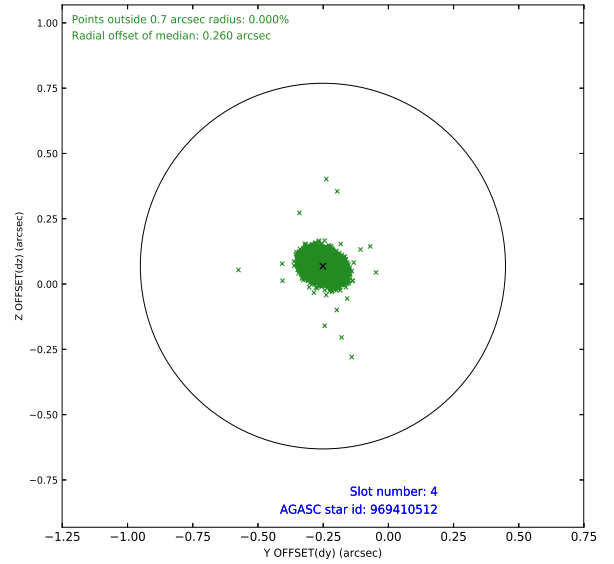
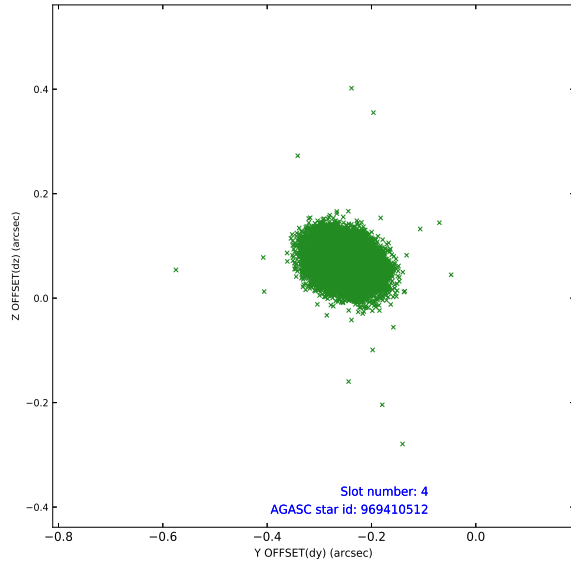
2.4.1 Slot 3



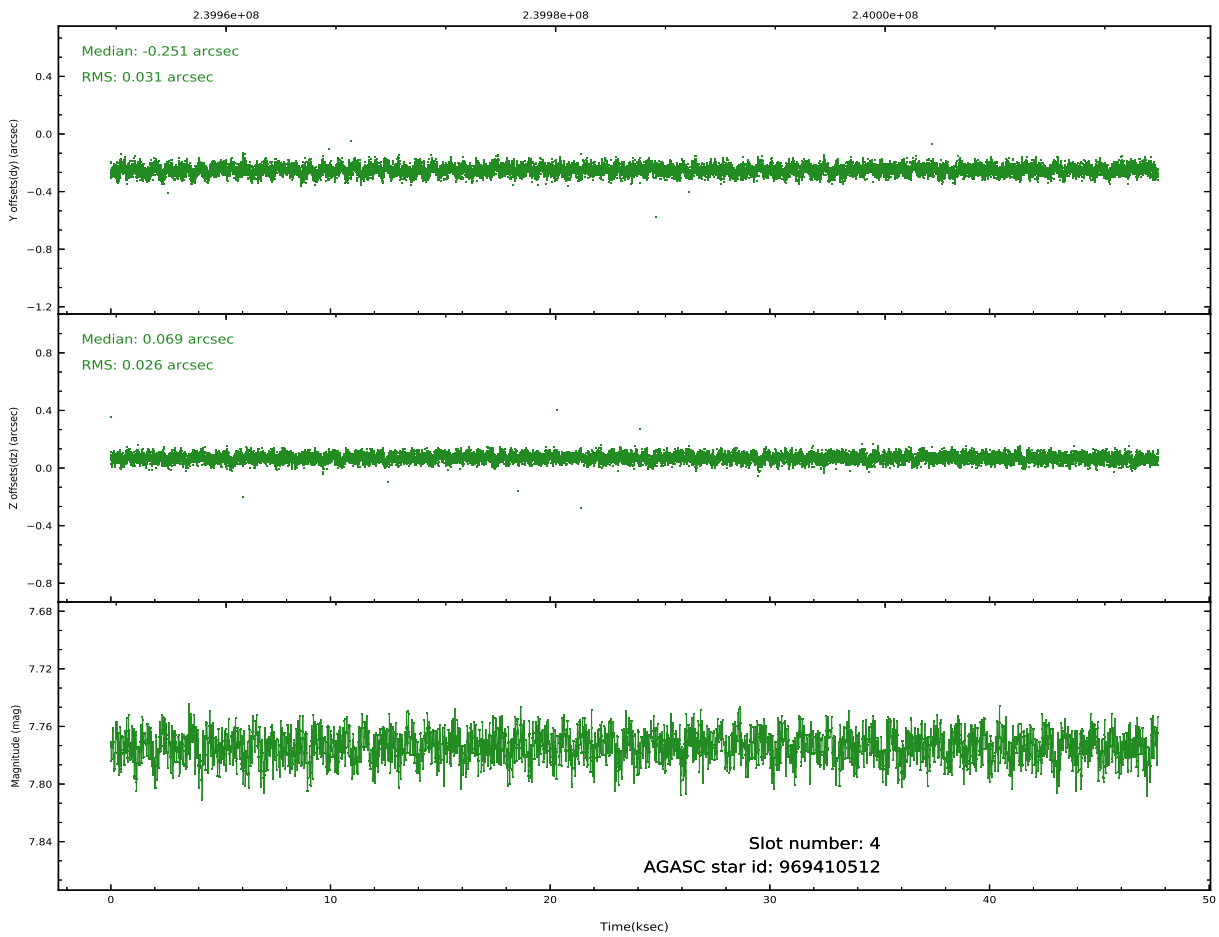
Time (s)



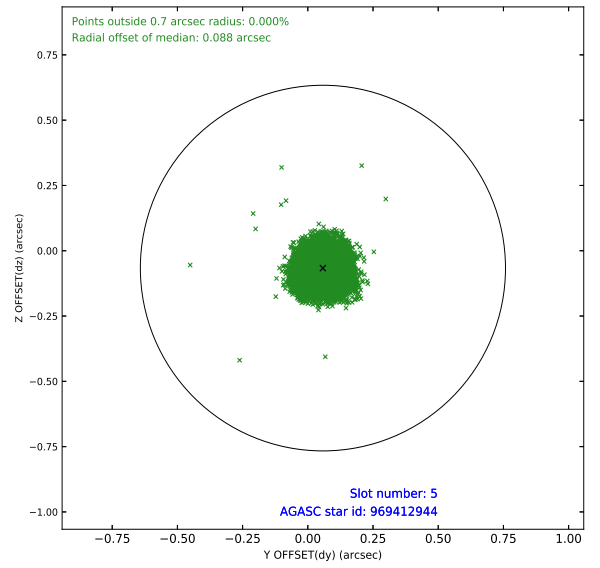
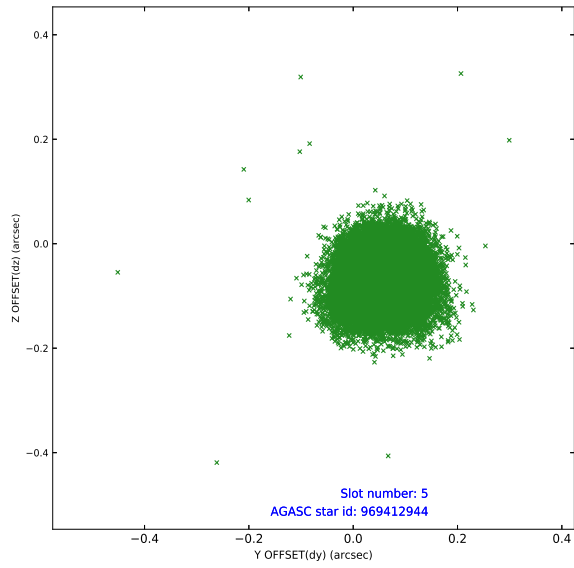
2.4.2 Slot 4



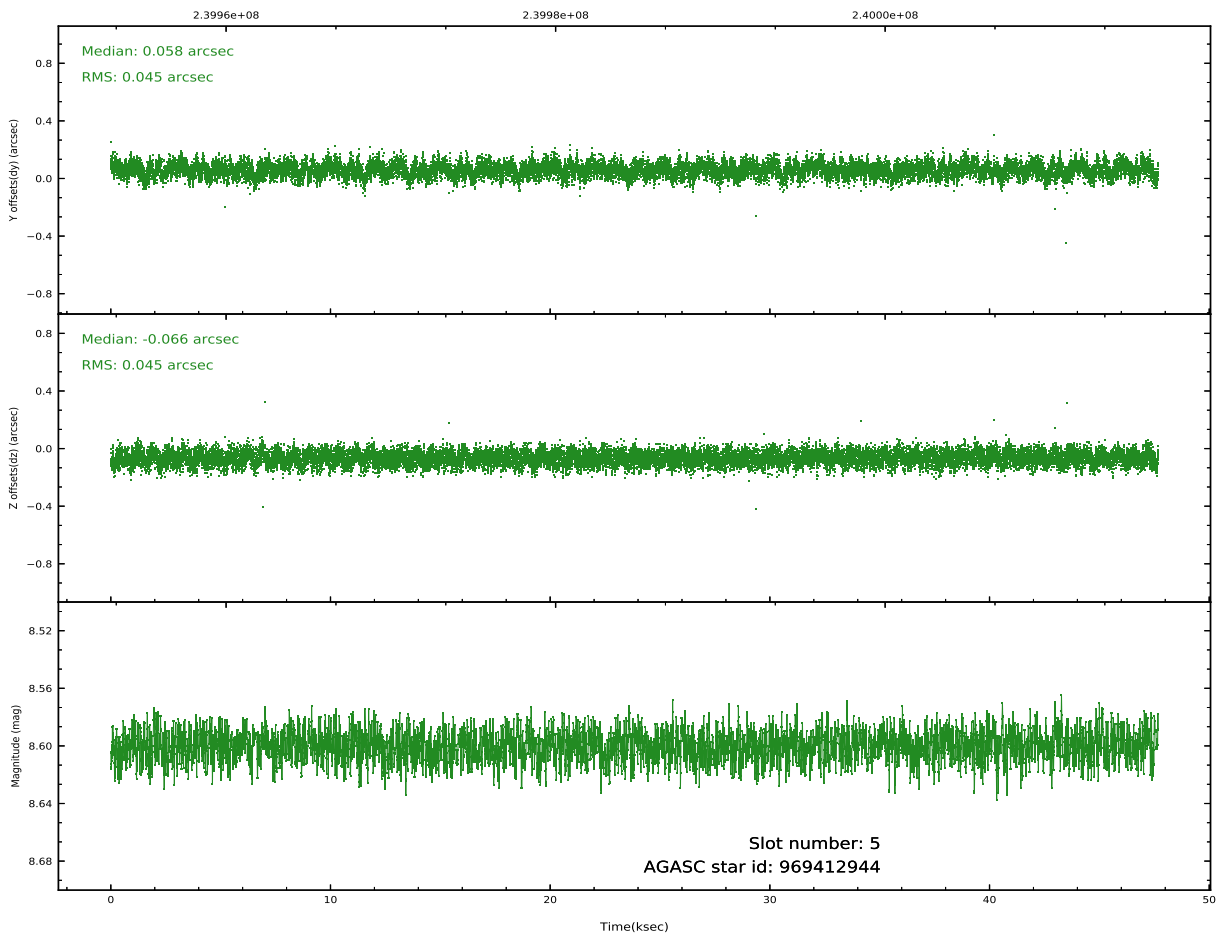
Time (s)



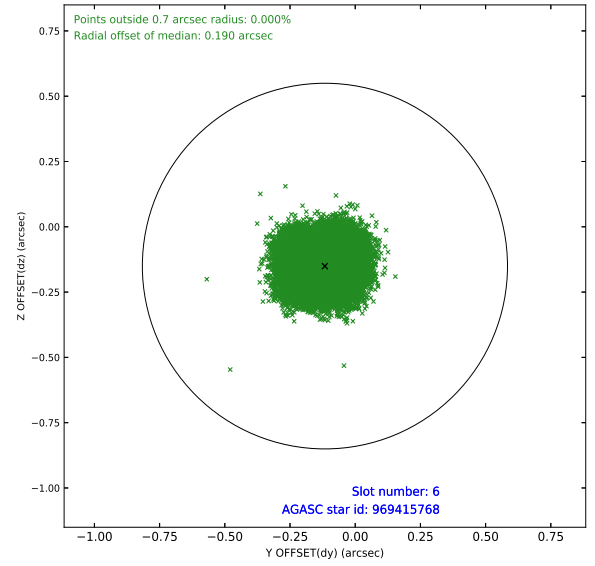
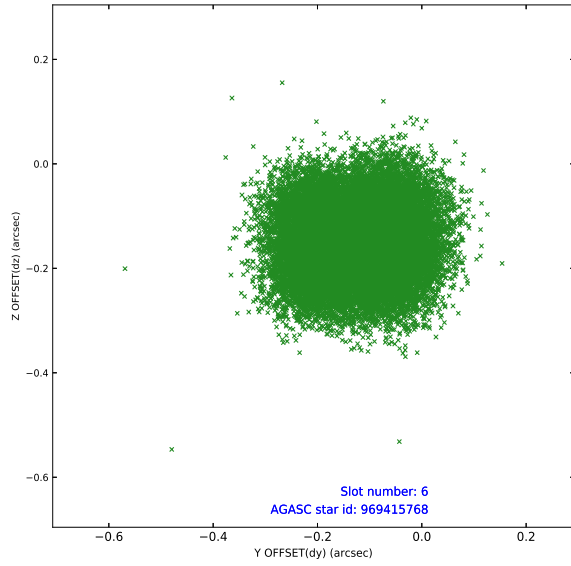
2.4.3 Slot 5



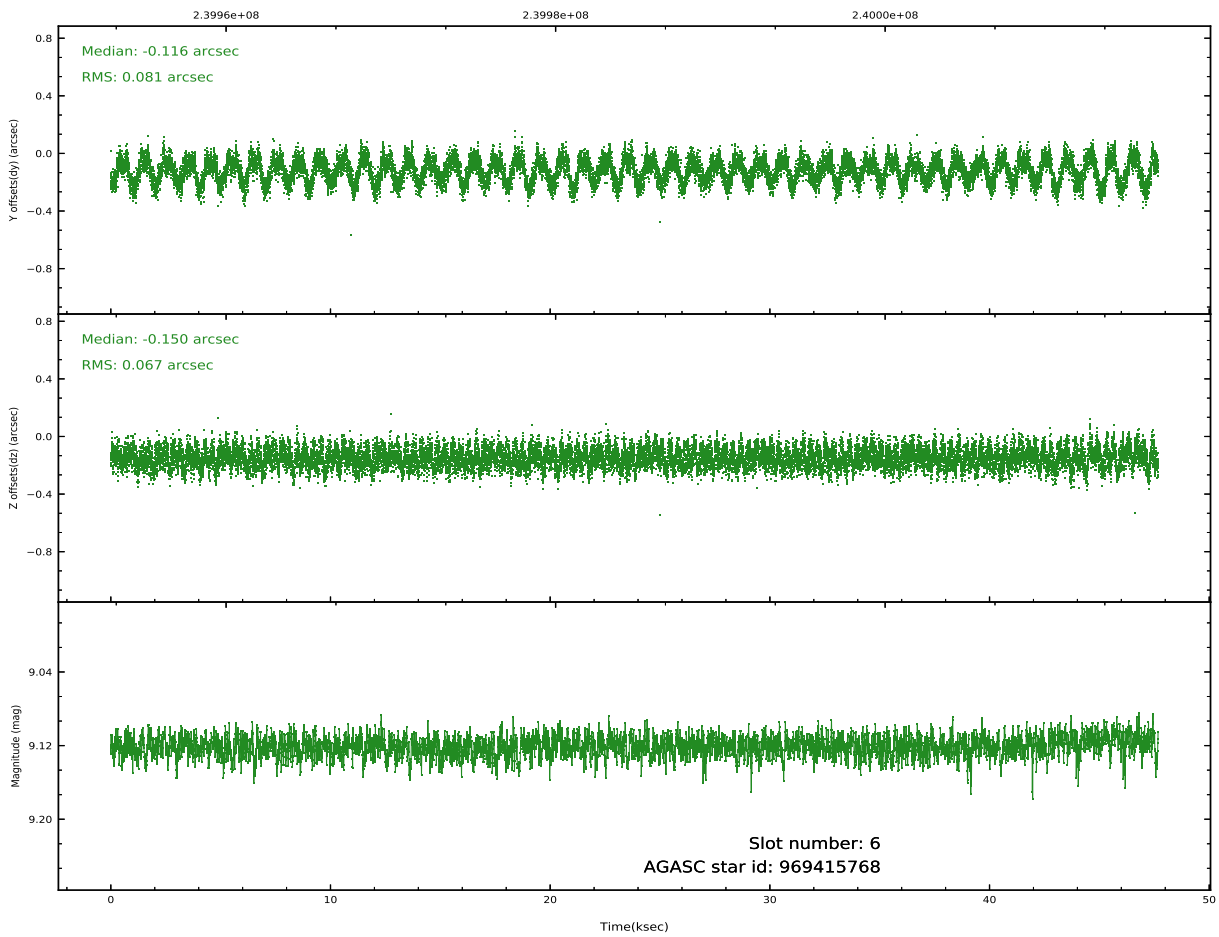
Time (s)



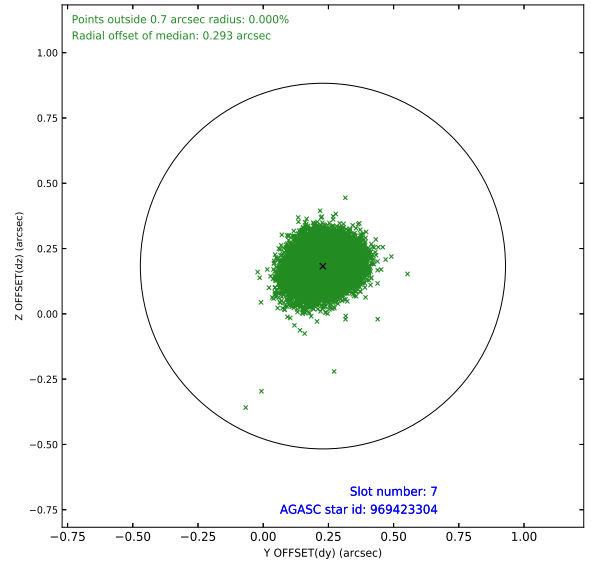
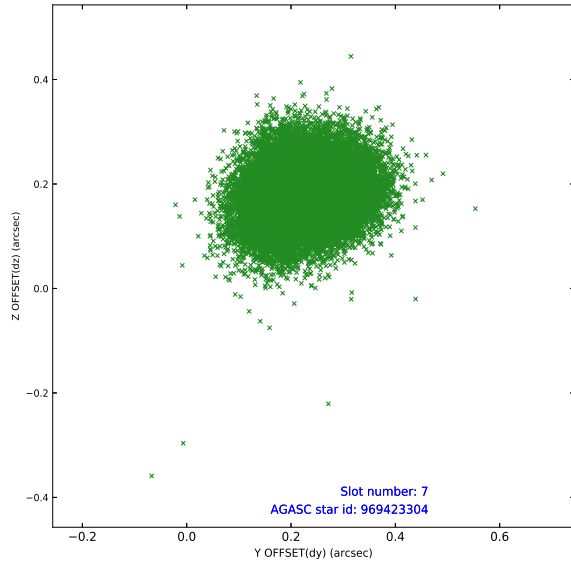
2.4.4 Slot 6



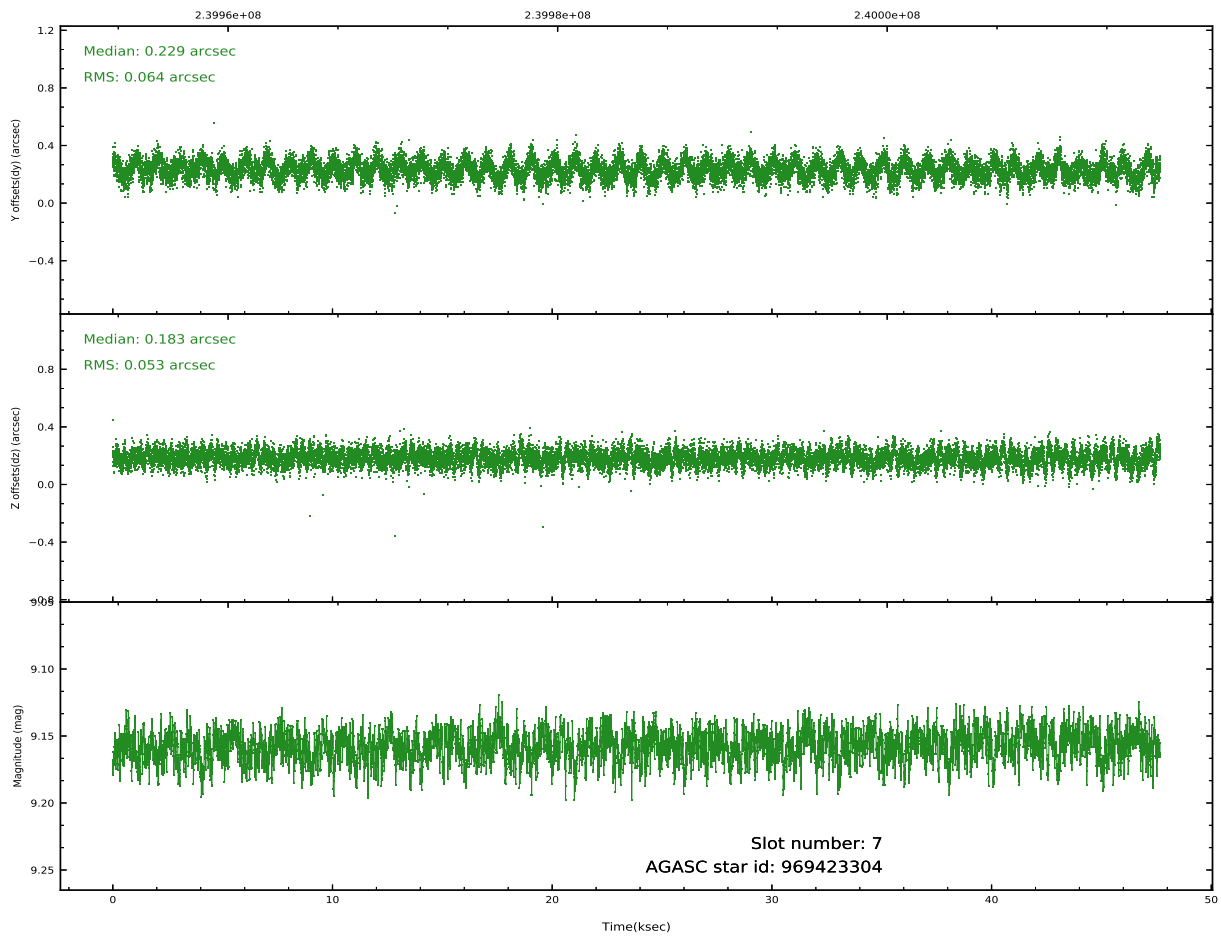
Time (s)



2.4.5 Slot 7

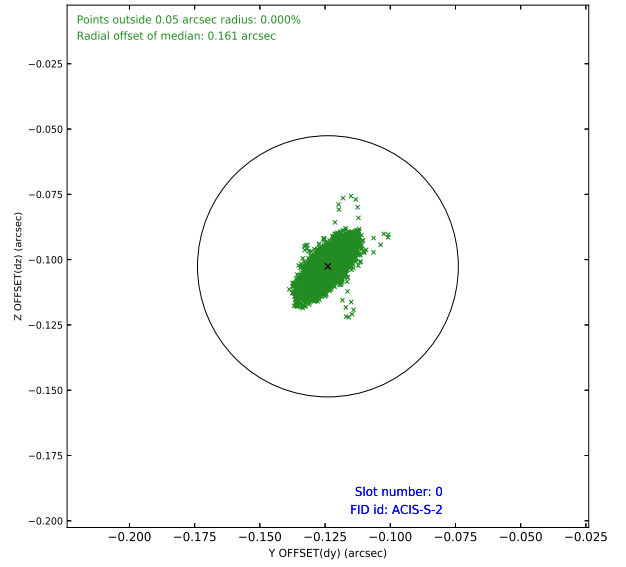
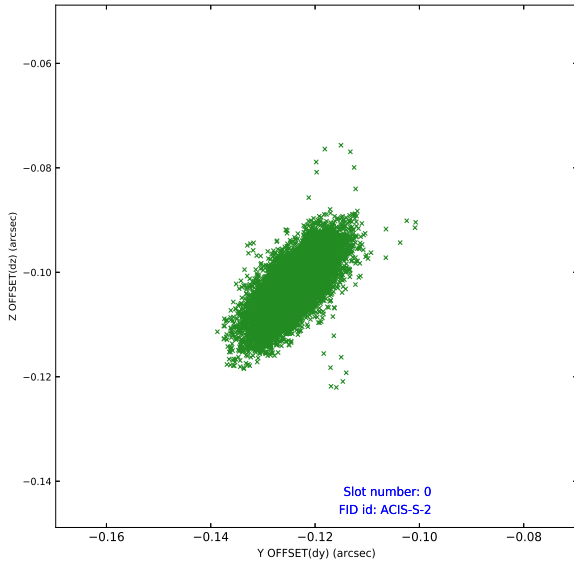


Time (s)

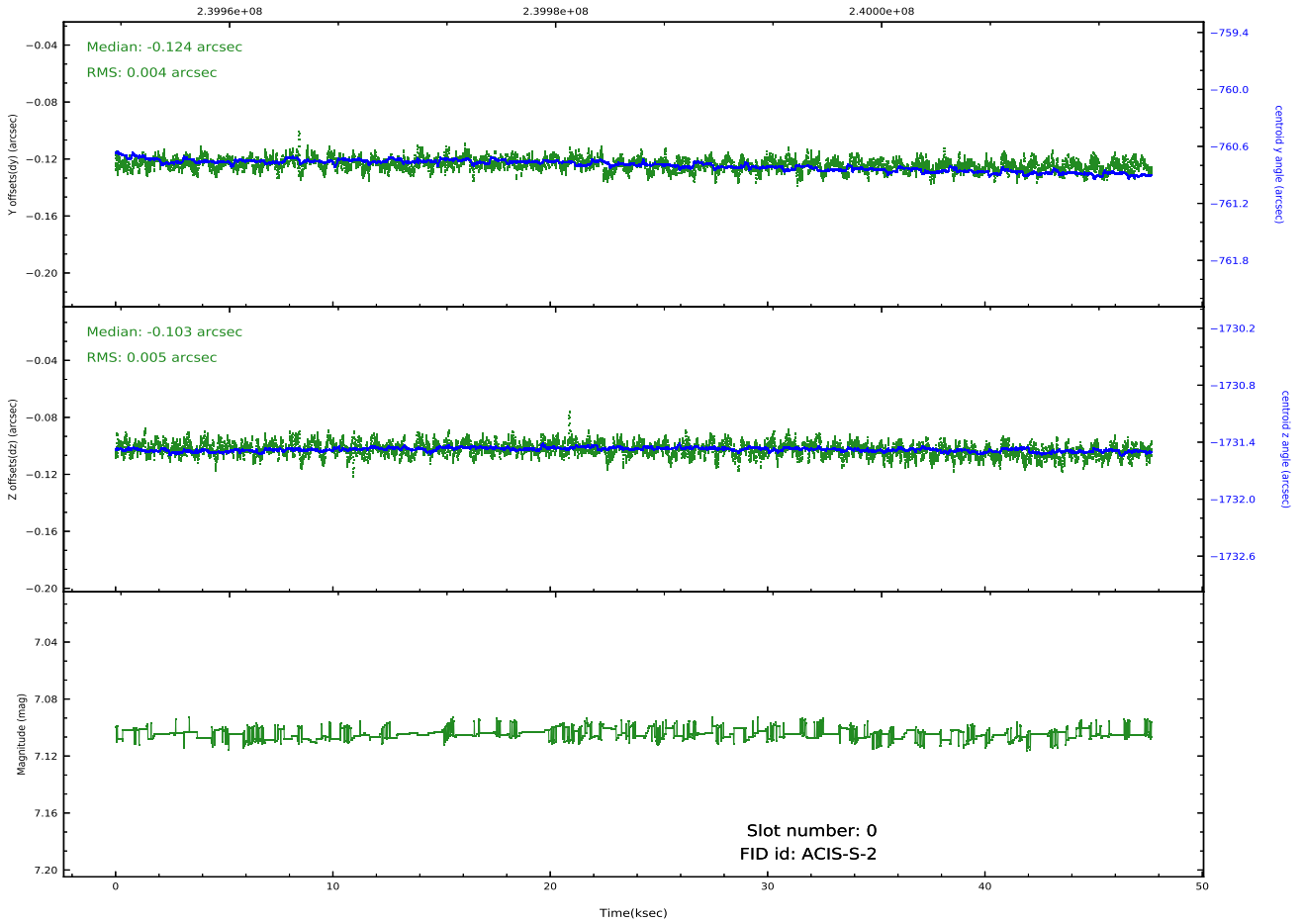


2.5 FID Slots

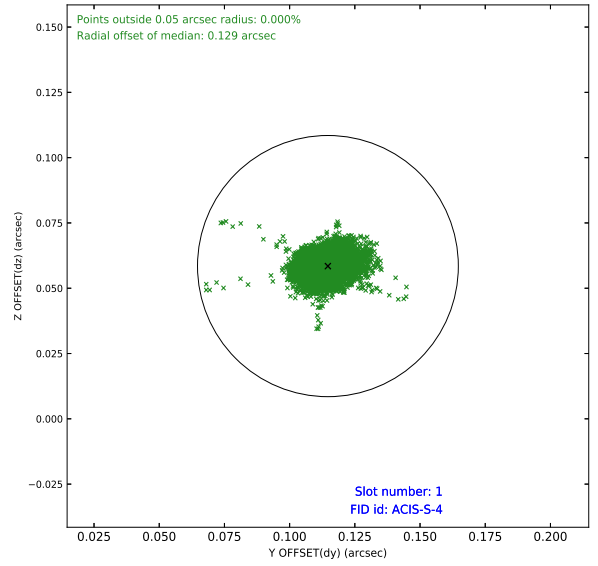
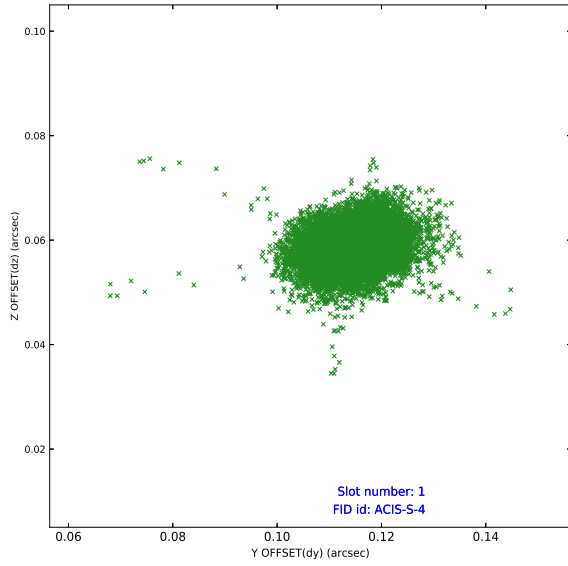
2.5.1 Slot 0



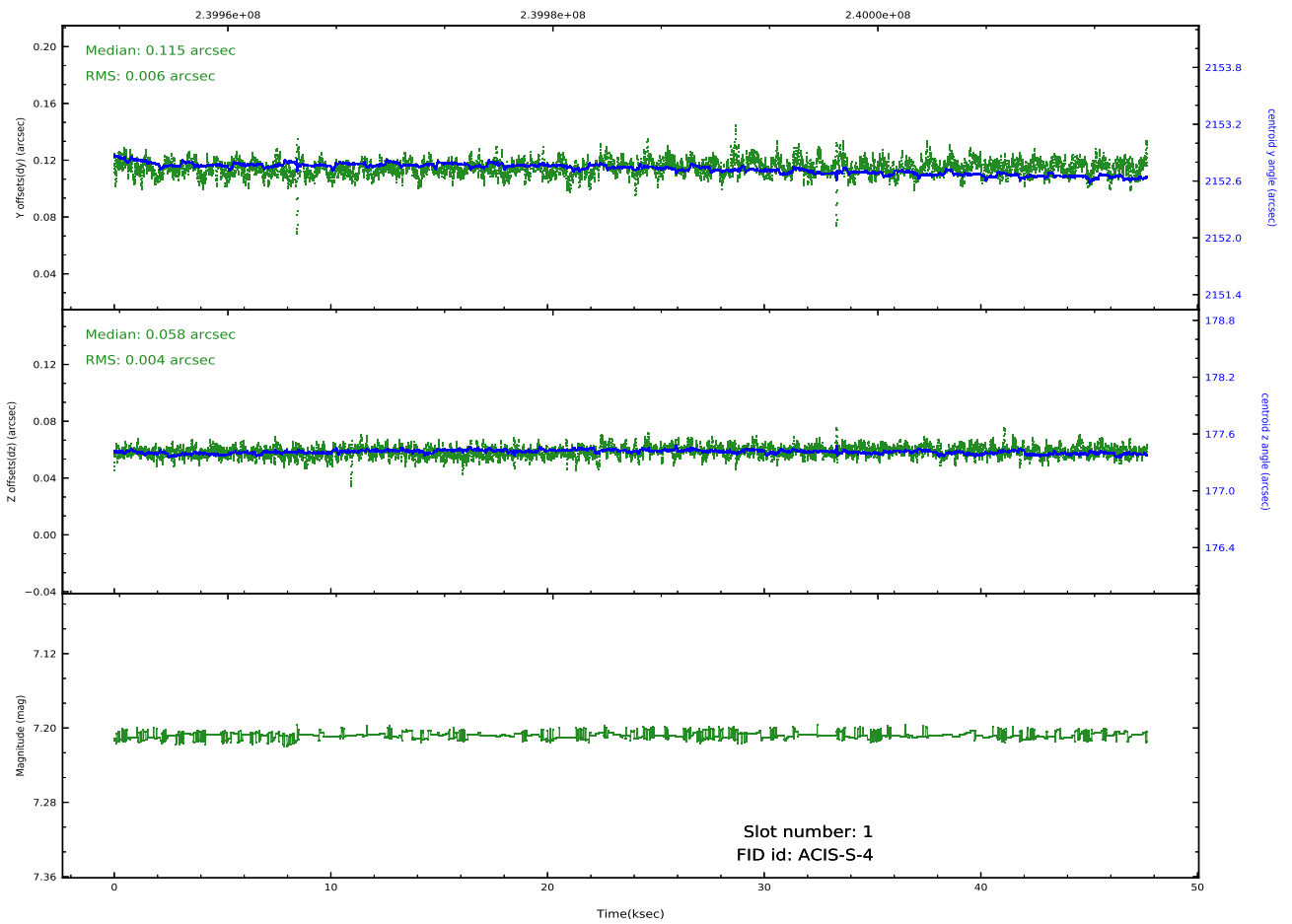
Time (s)



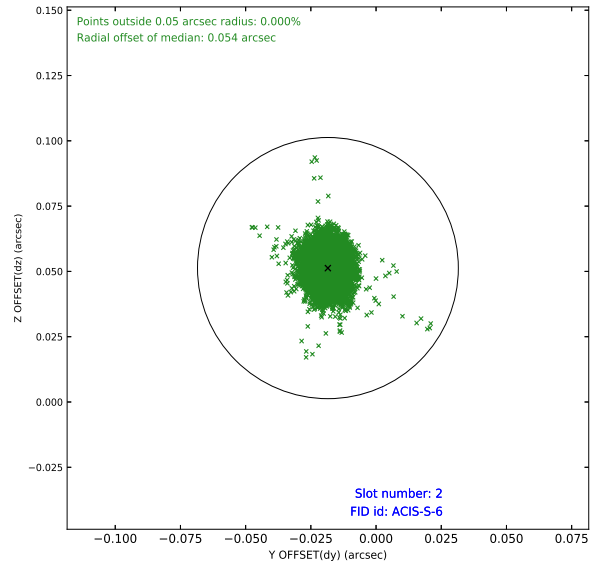
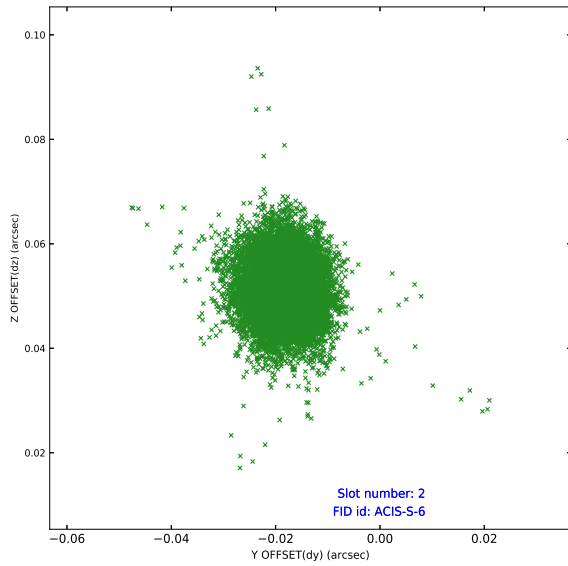
2.5.2 Slot 1



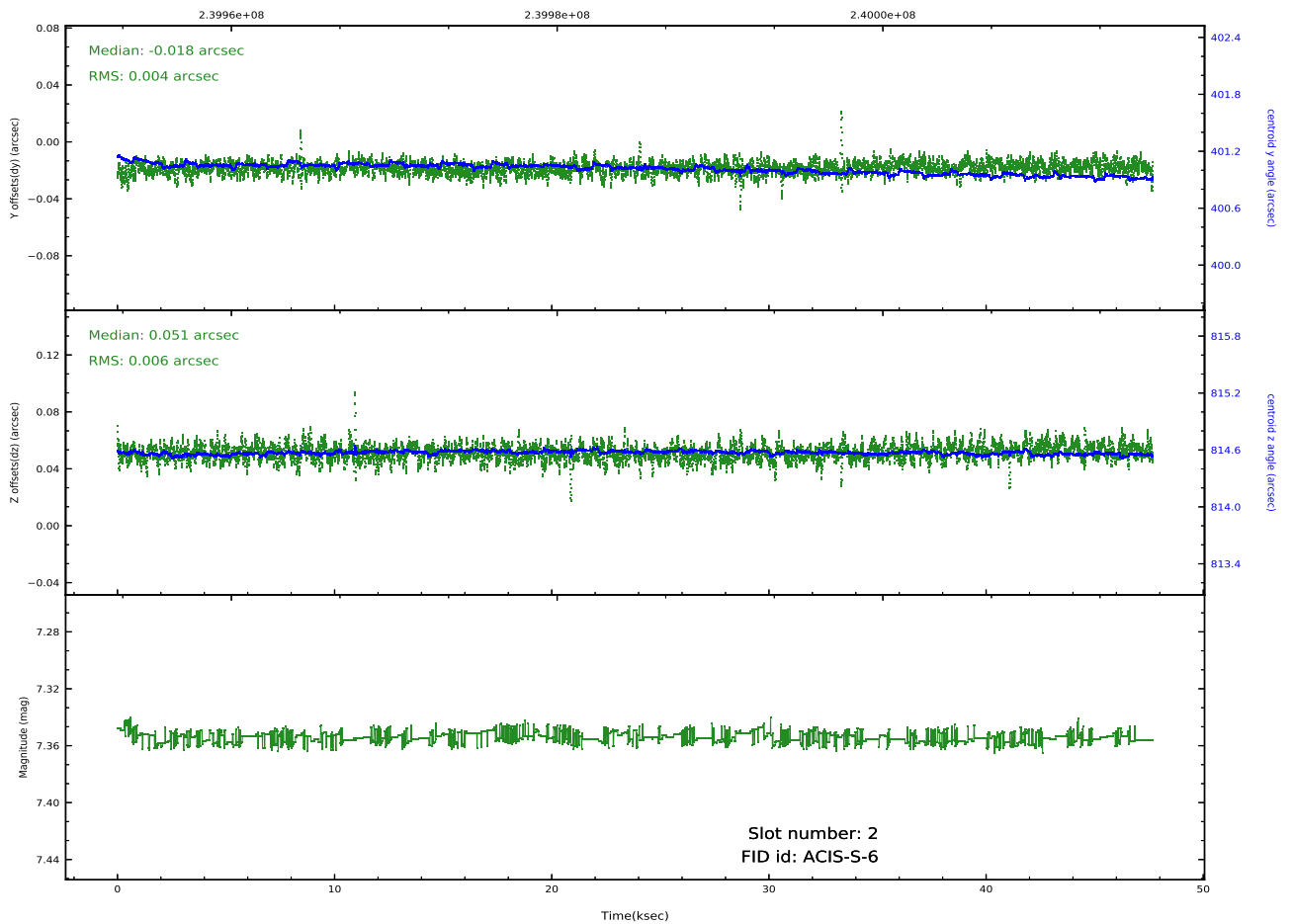
Time (s)



2.5.3 Slot 2

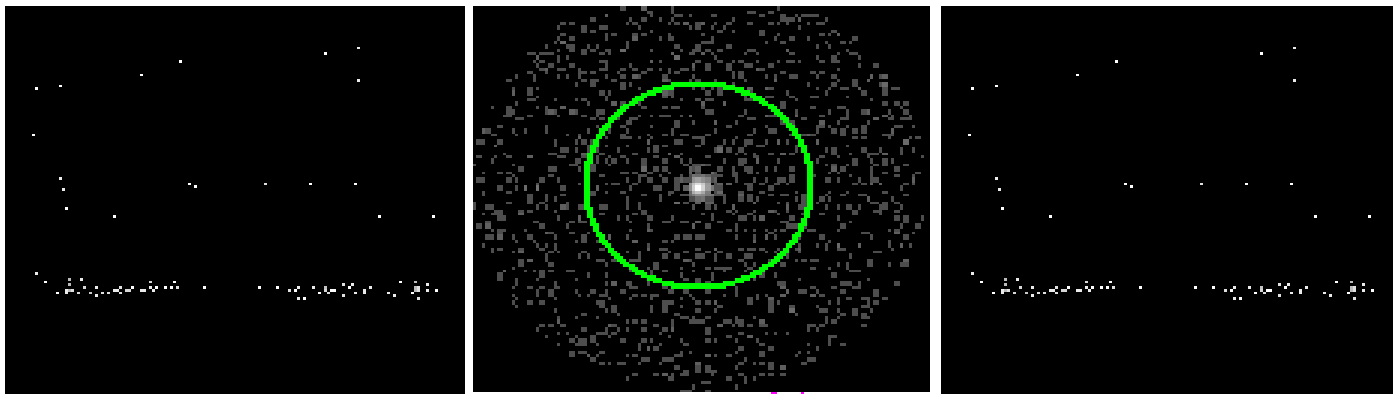


Time (s)



3 Gratings

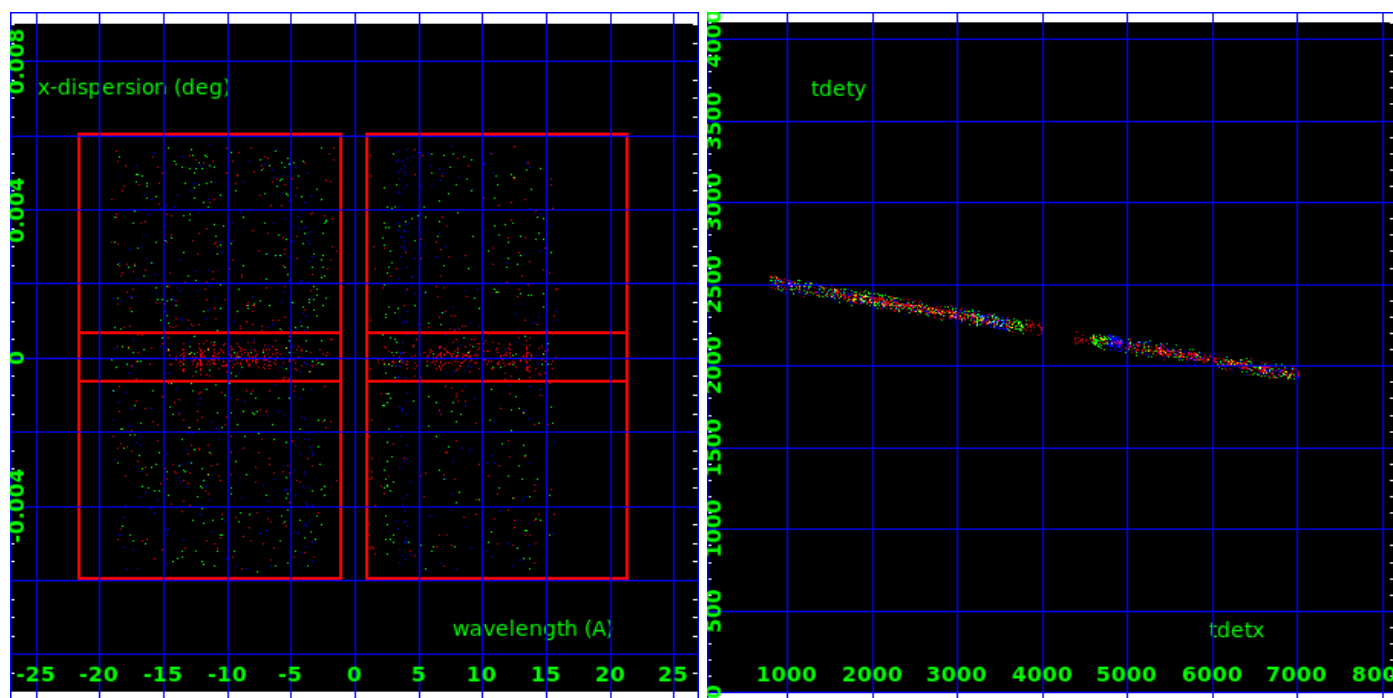
3.1 HEG Arm



HEG Order Sort 123

HEG Zero Order

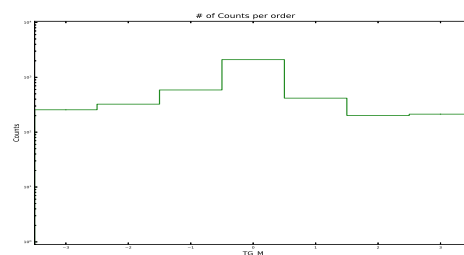
HEG Order Sort ALL

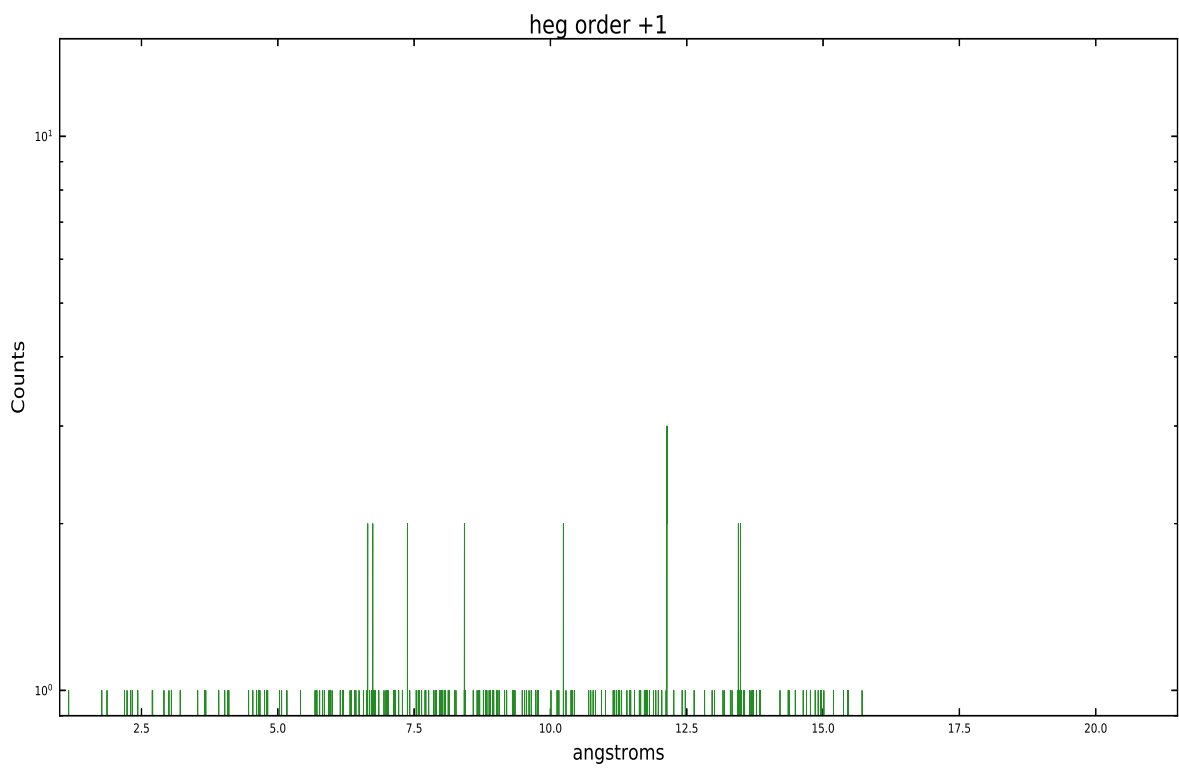
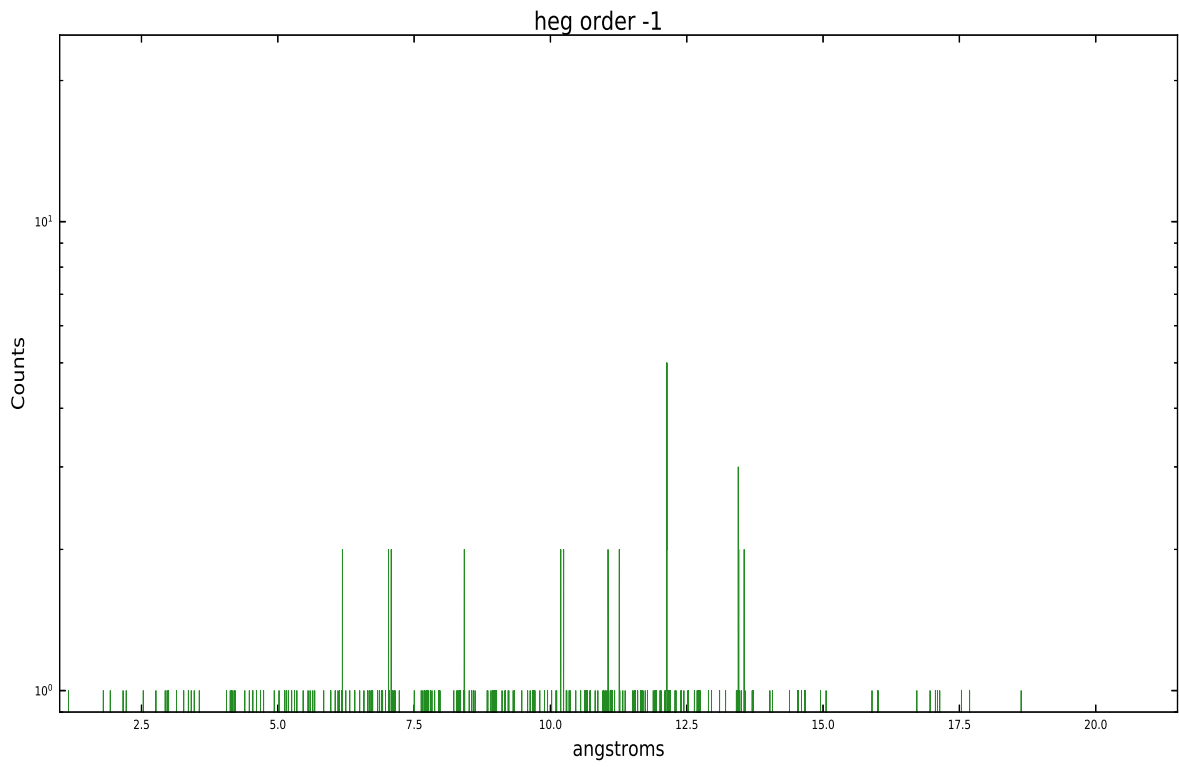


Spot Image HEG

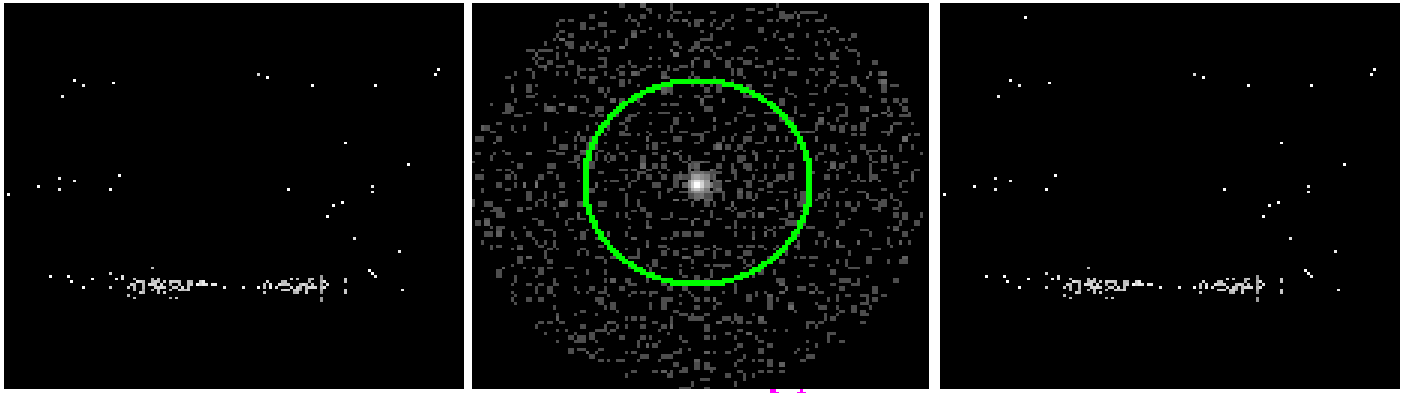
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	256	324	588	2100	417	202	213





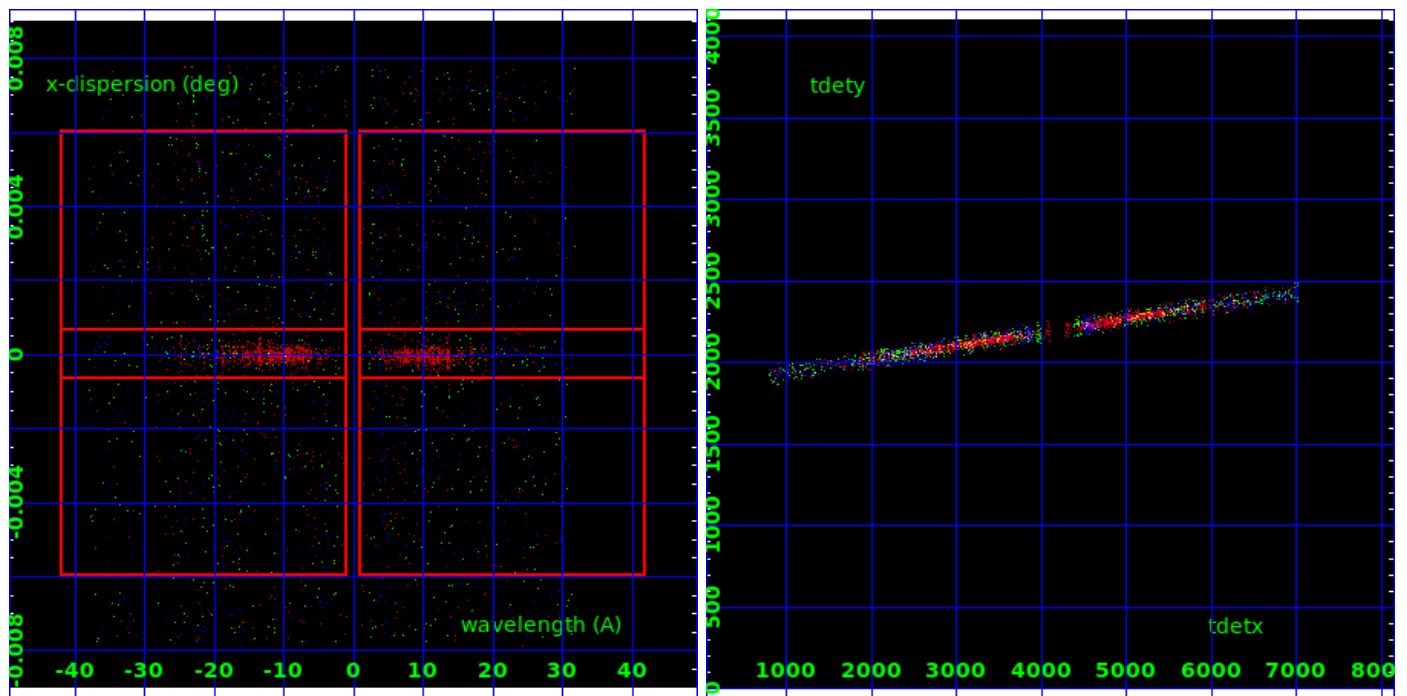
3.2 MEG Arm



MEG Order Sort 123

MEG Zero Order

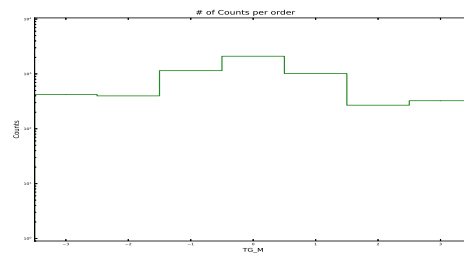
MEG Order Sort ALL

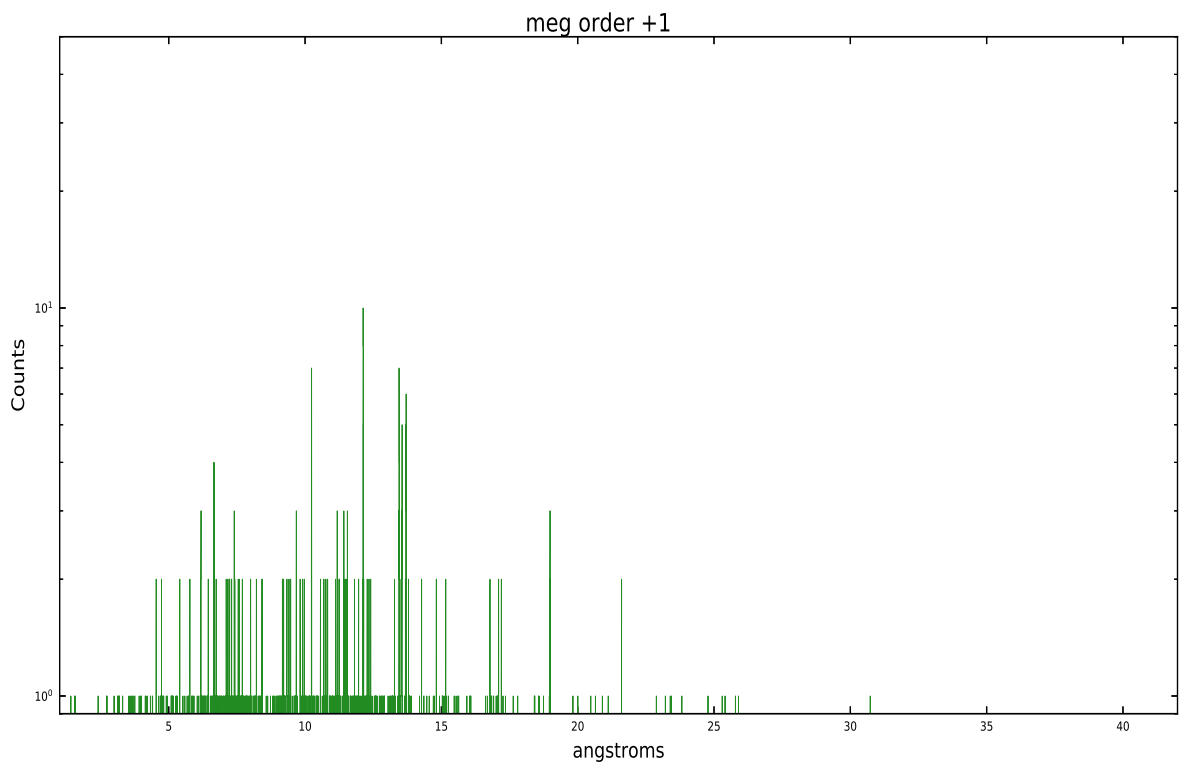
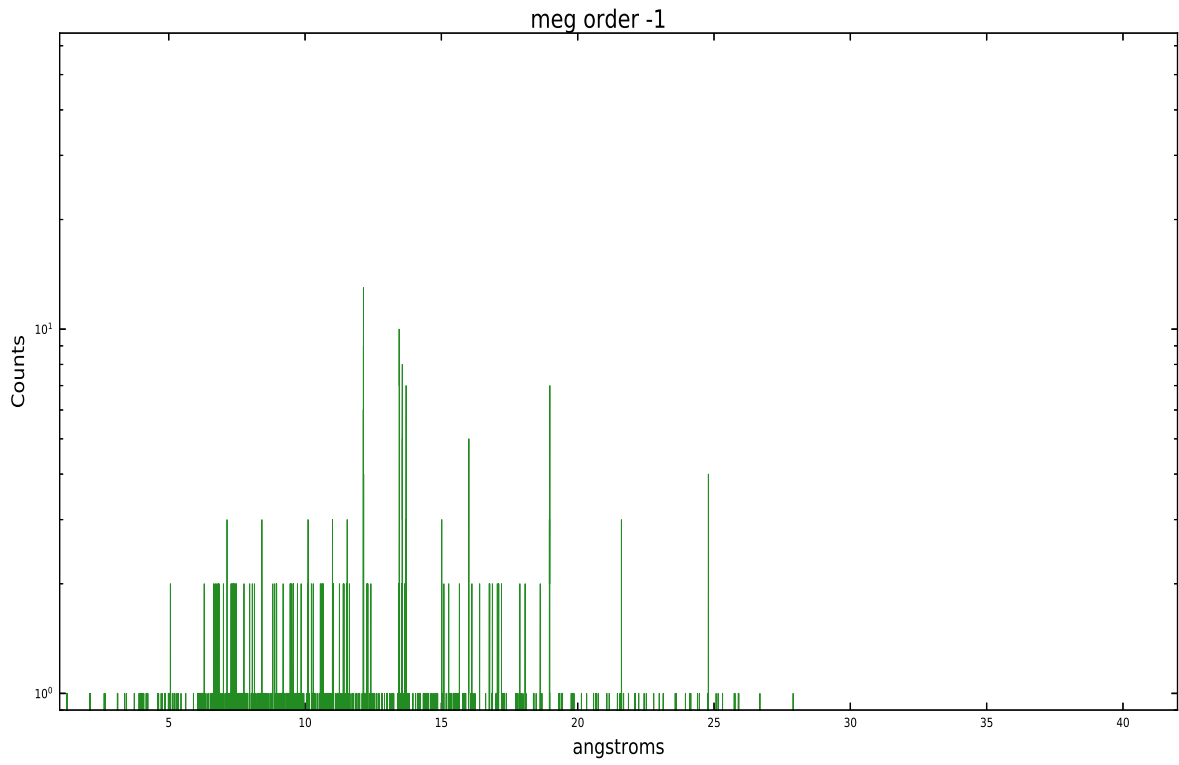


Spot Image MEG

Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	420	398	1148	2100	1015	269	325





A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.4576

A.2 Comments

There are multiple bright sources in the field of view. Some of these sources may be available in TGCat.