

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18821 - L2 Version 1
Chandra X-Ray Center

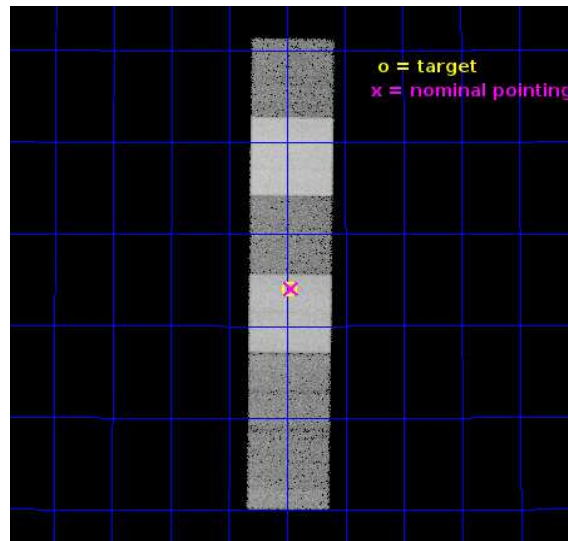
L2 Processing Date : Apr 13 2016

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1 Front

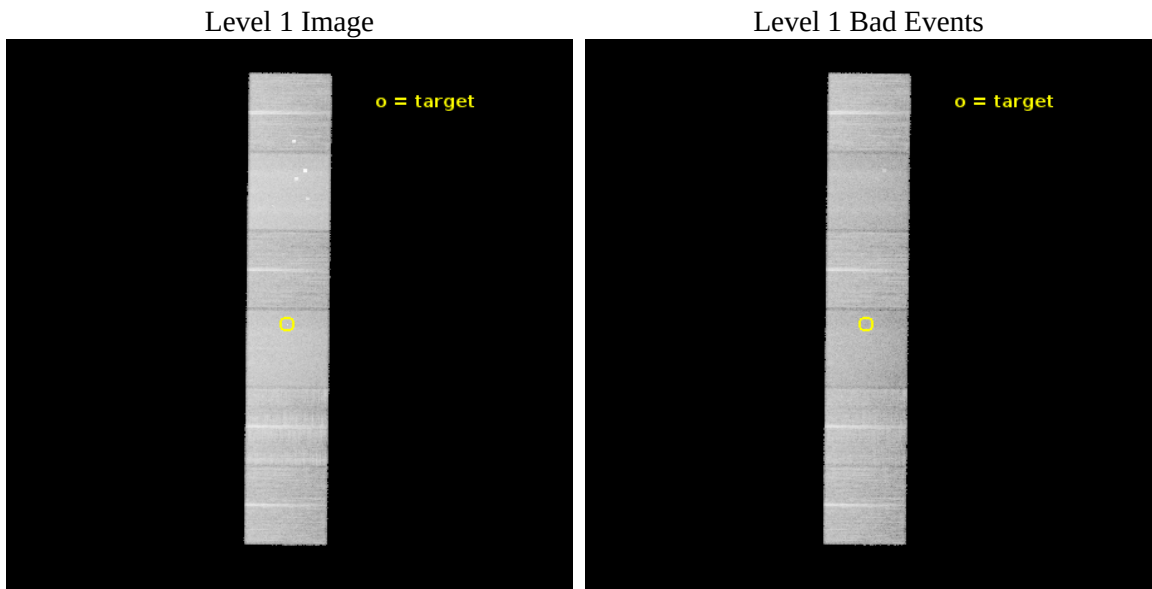
seq_num	200976	Sequence number
obs_id	18821	Observation id
title	HD191612 - constraining the structure of a massive magnetosphere	P
observer	Yael Naze	Principal investigator
object	HD191612	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	302.369167	Observer's specified target RA [deg]
dec_targ	35.733694	Observer's specified target Dec [deg]
ra_nom	302.36595543359	Nominal RA [deg]
dec_nom	35.734493614614	Nominal Dec [deg]
roll_nom	90.558511404415	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26933.945069551	Sum of GTIs [s]
livetime	26592.891239406	Livetime [s]
ontime4	26933.986109495	Sum of GTIs [s]
ontime5	26933.904029489	Sum of GTIs [s]
ontime6	26933.862989545	Sum of GTIs [s]
ontime7	26933.945069551	Sum of GTIs [s]
ontime8	26933.821949482	Sum of GTIs [s]
ontime9	26933.780909538	Sum of GTIs [s]
l2events	274965	Number of level 2 events



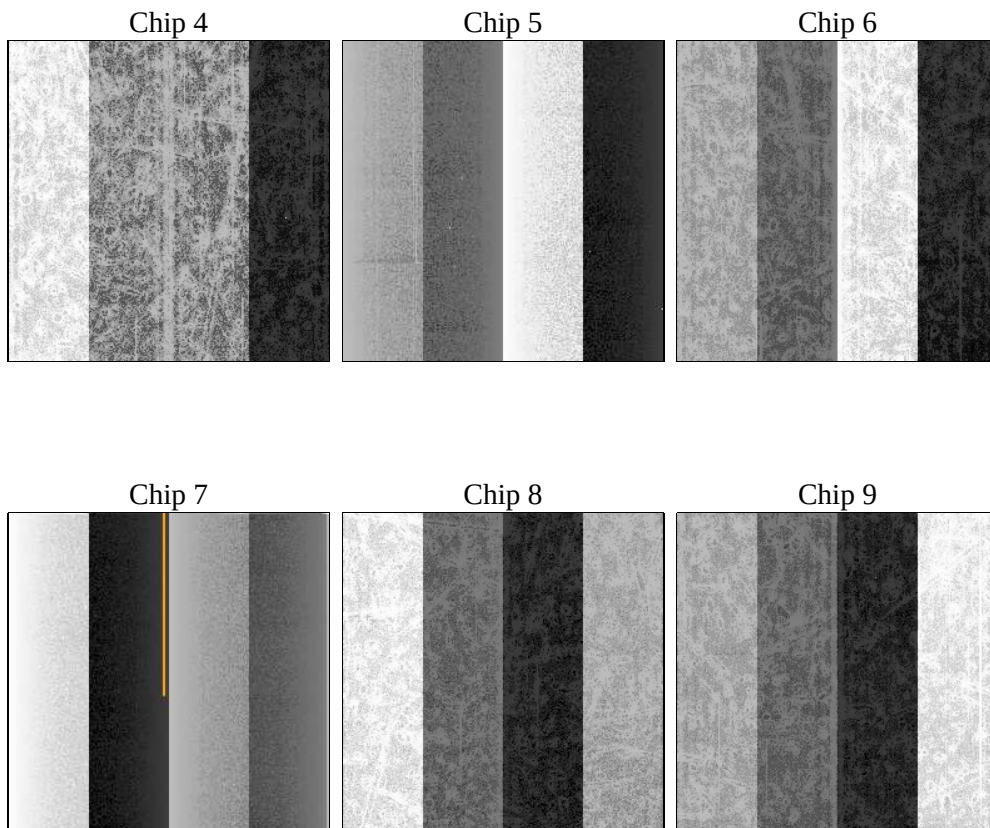
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	26933.945069551	Sum of GTIs [s]
caldsver	4.7.1	 	ontime4	26933.986109495	Sum of GTIs [s]
date	2016-04-13T11:39:20	Date and time of file creation	ontime5	26933.904029489	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	26933.862989545	Sum of GTIs [s]
			ontime7	26933.945069551	Sum of GTIs [s]
			ontime8	26933.821949482	Sum of GTIs [s]
			ontime9	26933.780909538	Sum of GTIs [s]
			l1events	1219038	Number of level 1 events
			tgmethod	TGDETECT	Method used to create src1a file
			ra_pos	(4077.58, 4000.00)	src1a sky pixel position

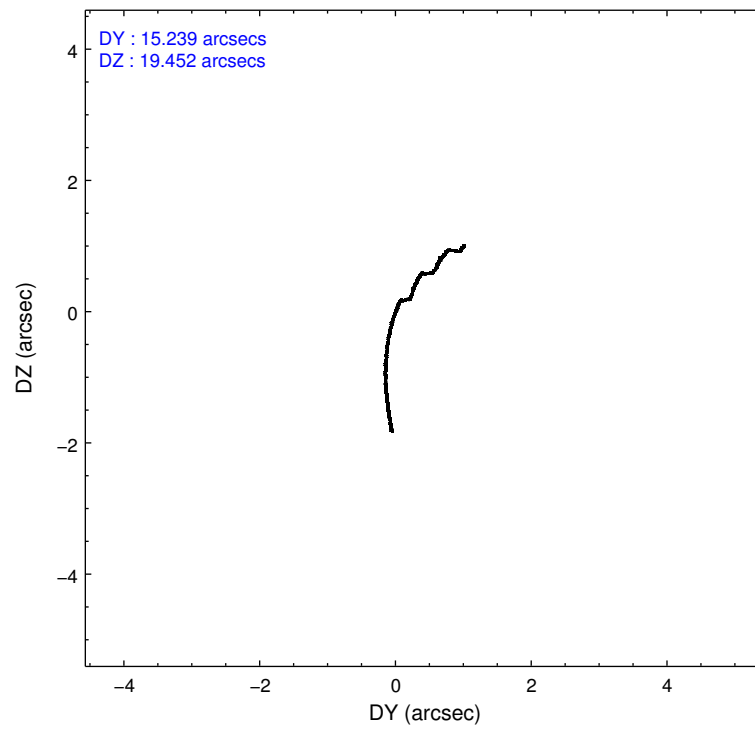
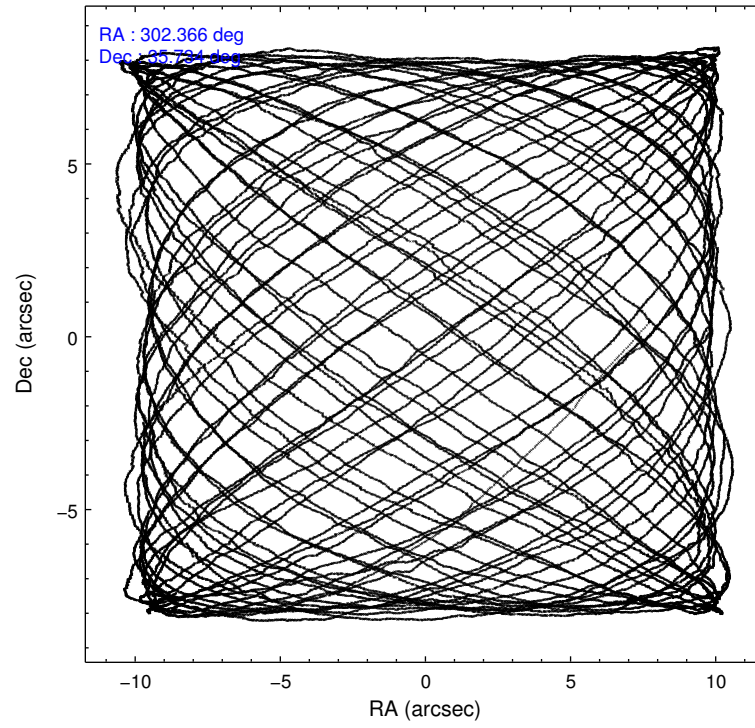
2.1.4 Events

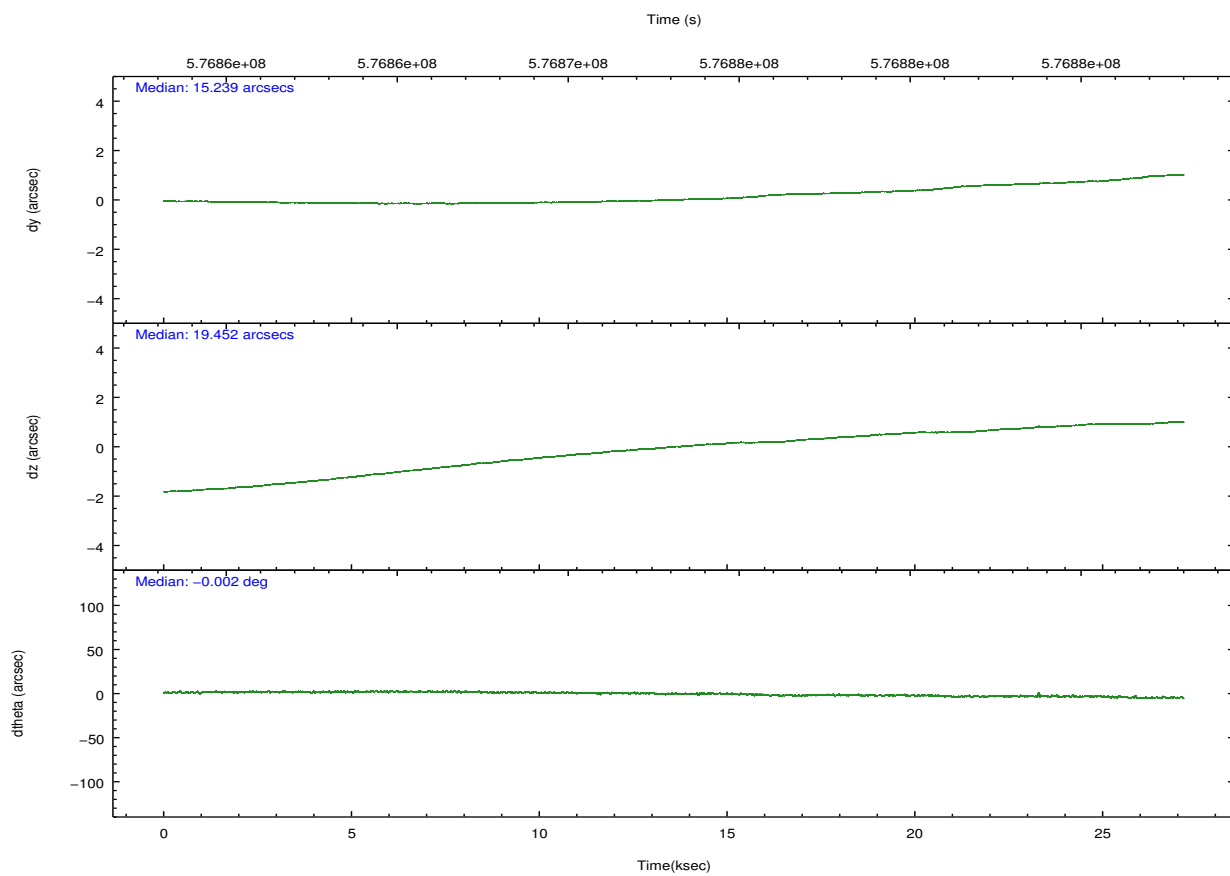
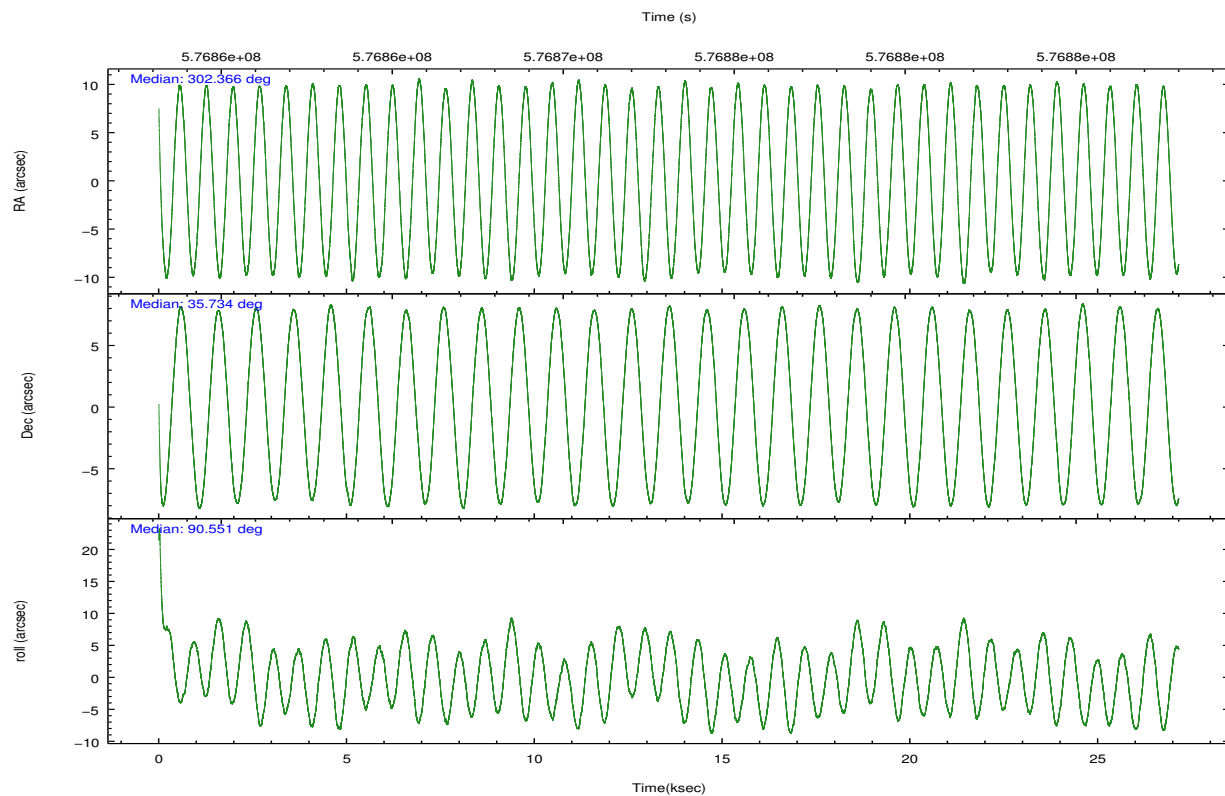
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	187761	262914	173682	213451	215826	165404	grade 0 events	8324	8973	6084	7272	15661	6878
rejected events	167077	138345	154937	122303	161170	145359		4%	3%	3%	3%	7%	4%
rejected %	88%	52%	89%	57%	74%	87%	grade 1 events	191	881	90	271	189	91
								0%	0%	0%	0%	0%	0%
							grade 2 events	4737	38888	4434	19266	13509	4584
								2%	14%	2%	9%	6%	2%
							grade 3 events	2194	3674	1812	6957	5426	2068
								1%	1%	1%	3%	2%	1%
							grade 4 events	2069	3546	1779	6675	5008	2035
								1%	1%	1%	3%	2%	1%
							grade 5 events	7996	17692	7644	20577	11727	8836
								4%	6%	4%	9%	5%	5%
							grade 6 events	3366	69525	4640	50995	15069	4484
								1%	26%	2%	23%	6%	2%
							grade 7 events	158884	119735	147199	101438	149237	136428
								84%	45%	84%	47%	69%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	302.383540	302.3659554335911	CCD I2 on	N	N
[deg] Pointing Dec	35.711050	35.73449361461437	CCD I3 on	N	N
[deg] Pointing Roll	90.391614	90.5585114044148	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
Phase constraints	Y	Y	CCD S5 on	O2	Y
[d] Phase period	537.200000	537.200000	Number of optional ACIS chips dropped	0	0
[d] Phase epoch (MJD)	56637.800000	56637.800000	On-chip summing requested	N	N
Phase start	0.400000	0.400000	Subarray requested	NONE	NONE
Phase end	0.600000	0.600000	Alternating exposures requested	N	N
Phase start error	0.010000	0.010000	[s] Primary exposure time	0.000000	3.2
Phase end error	0.010000	0.010000			
[s] Observation start time (MET)	576859677.184000	576858553.86766			
Observation start date	2016-04-12T14:46:49	2016-04-12T14:29:13			
[s] Observation end time (MET)	576886677.184000	576887564.95682			
Observation end date	2016-04-12T22:16:49	2016-04-12T22:32:44			
Read mode	TIMED	TIMED			

2.3 Aspect



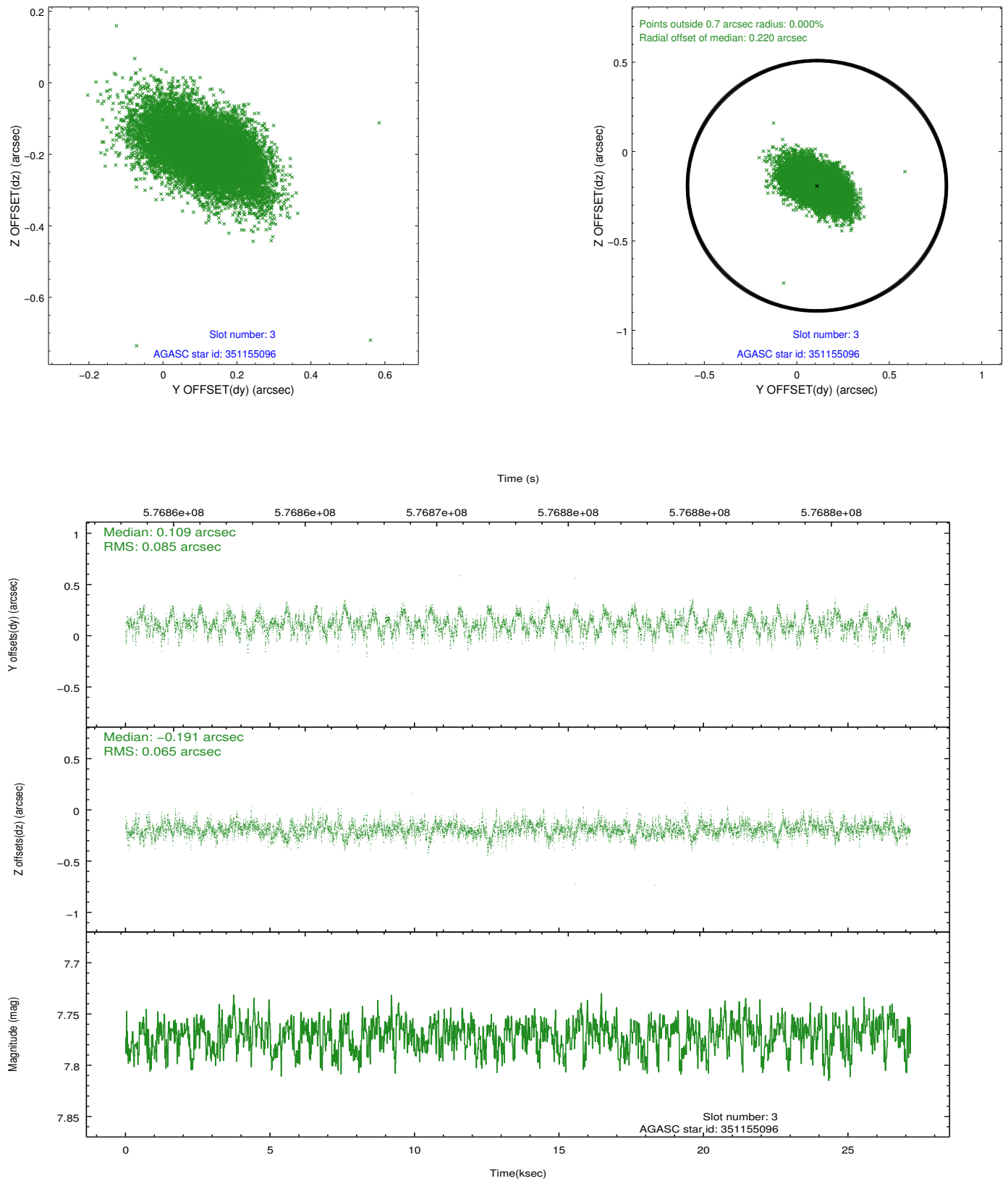


Slot Statistics

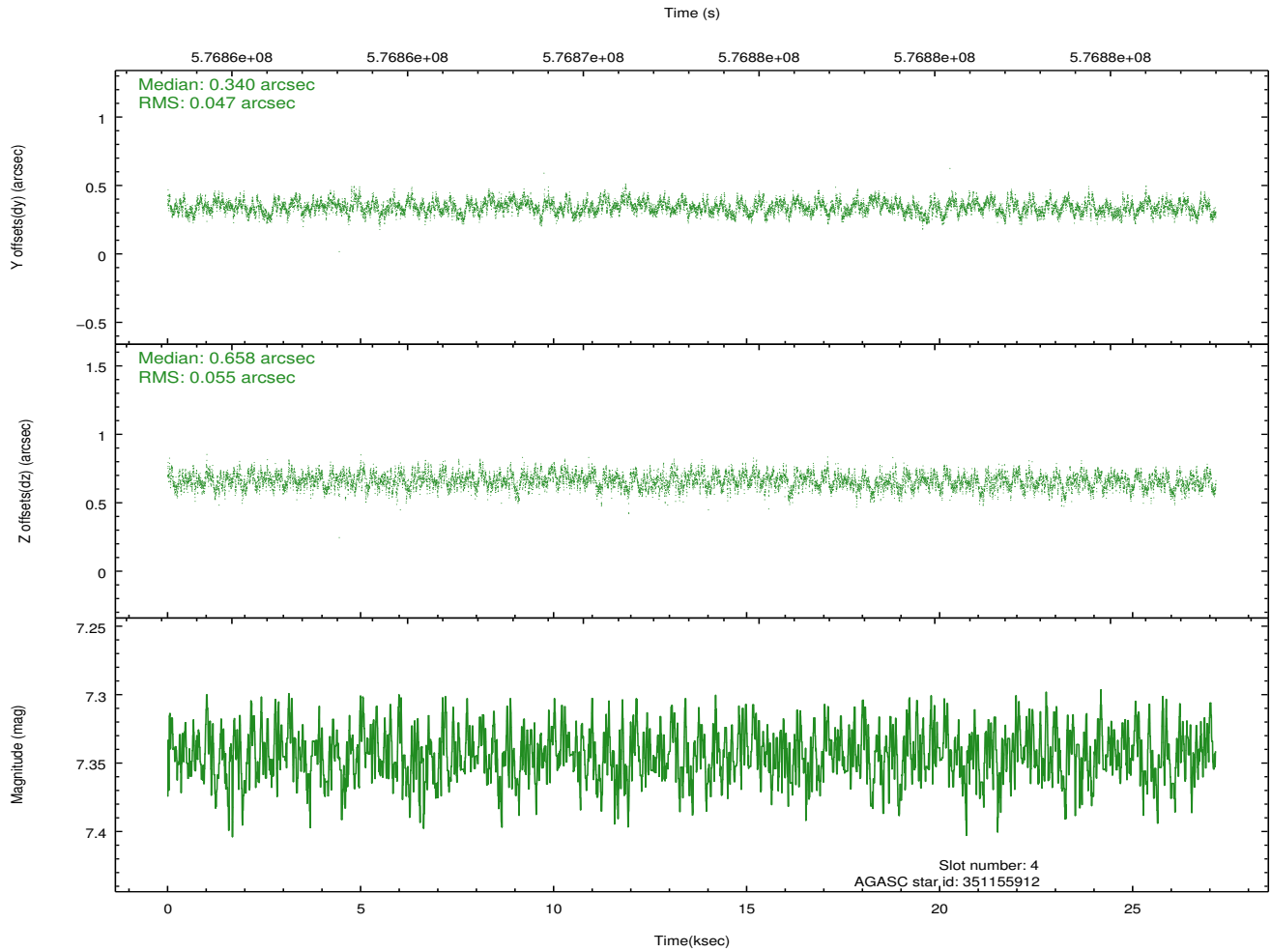
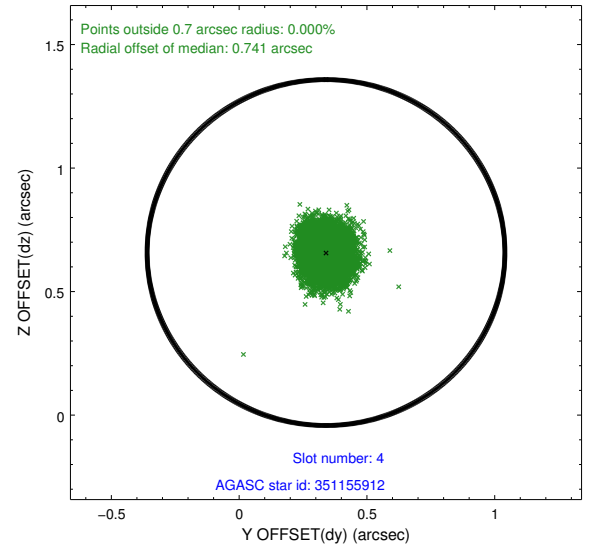
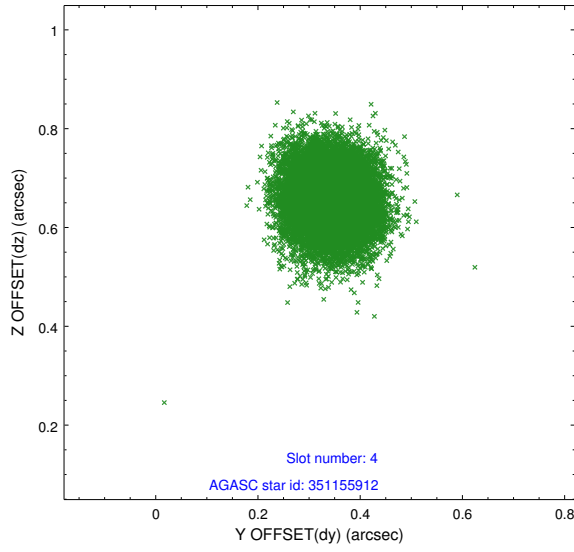
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	6622	-0.033	-0.095	0.028	0.045	0.000000	0.000000	-768.49	-1740.77
1	FID		ACIS-S-5	7.24	6623	-0.187	-0.026	0.031	0.047	0.000000	0.000000	-1821.74	161.22
2	FID		ACIS-S-6	7.36	6623	0.191	0.128	0.012	0.019	0.000000	0.000000	393.32	805.30
3	GUIDE	used	351155096	7.77	13245	0.109	-0.191	0.111	0.191	301.647496	35.132041	-2061.68	2180.95
4	GUIDE	used	351155912	7.34	13245	0.340	0.658	0.078	0.122	303.180509	35.178047	-1924.58	-2330.84
5	GUIDE	used	351676240	6.49	13245	-0.136	-0.428	0.089	0.139	302.195311	36.147798	1575.99	536.32
6	GUIDE	used	351681856	8.12	13243	-0.389	-0.262	0.101	0.160	301.861303	35.912846	740.52	1517.64
7	GUIDE	used	351684480	8.24	13237	0.069	0.225	0.136	0.206	302.973035	36.197373	1744.62	-1723.90

2.4 Star Slots

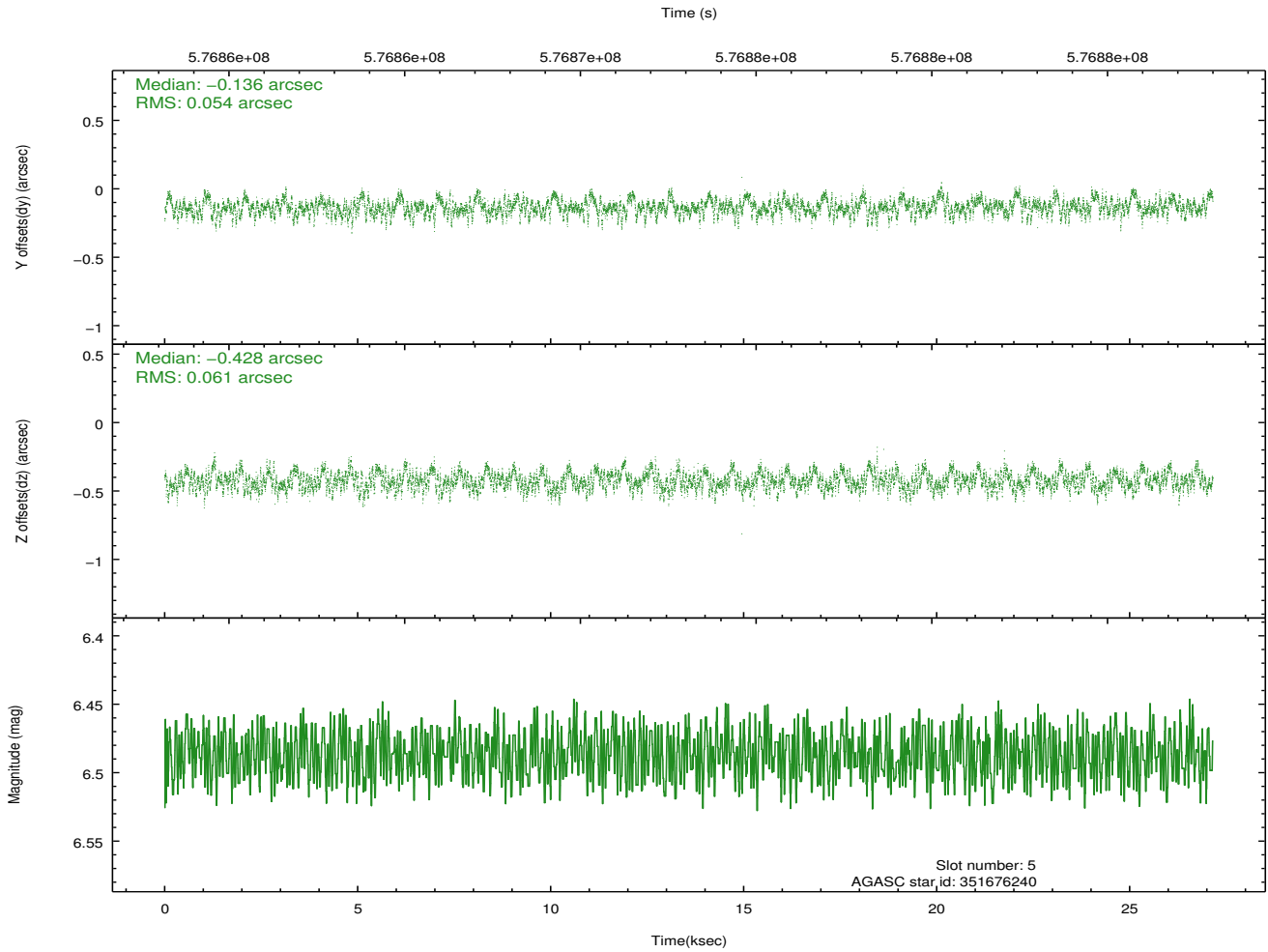
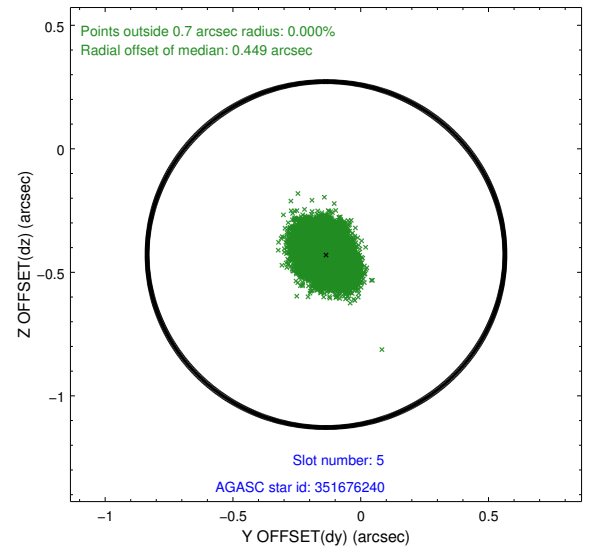
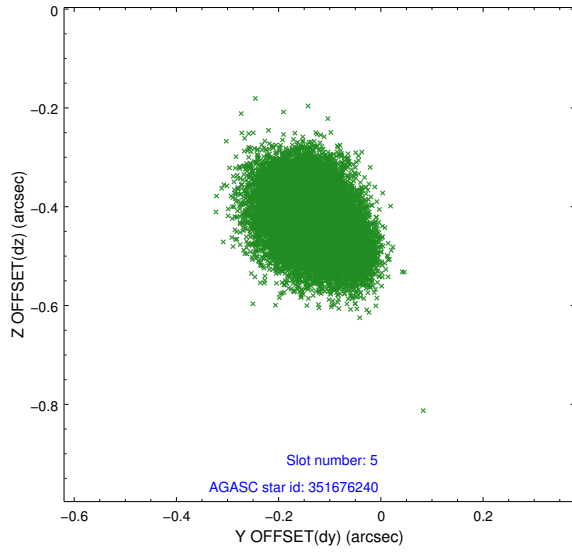
2.4.1 Slot 3



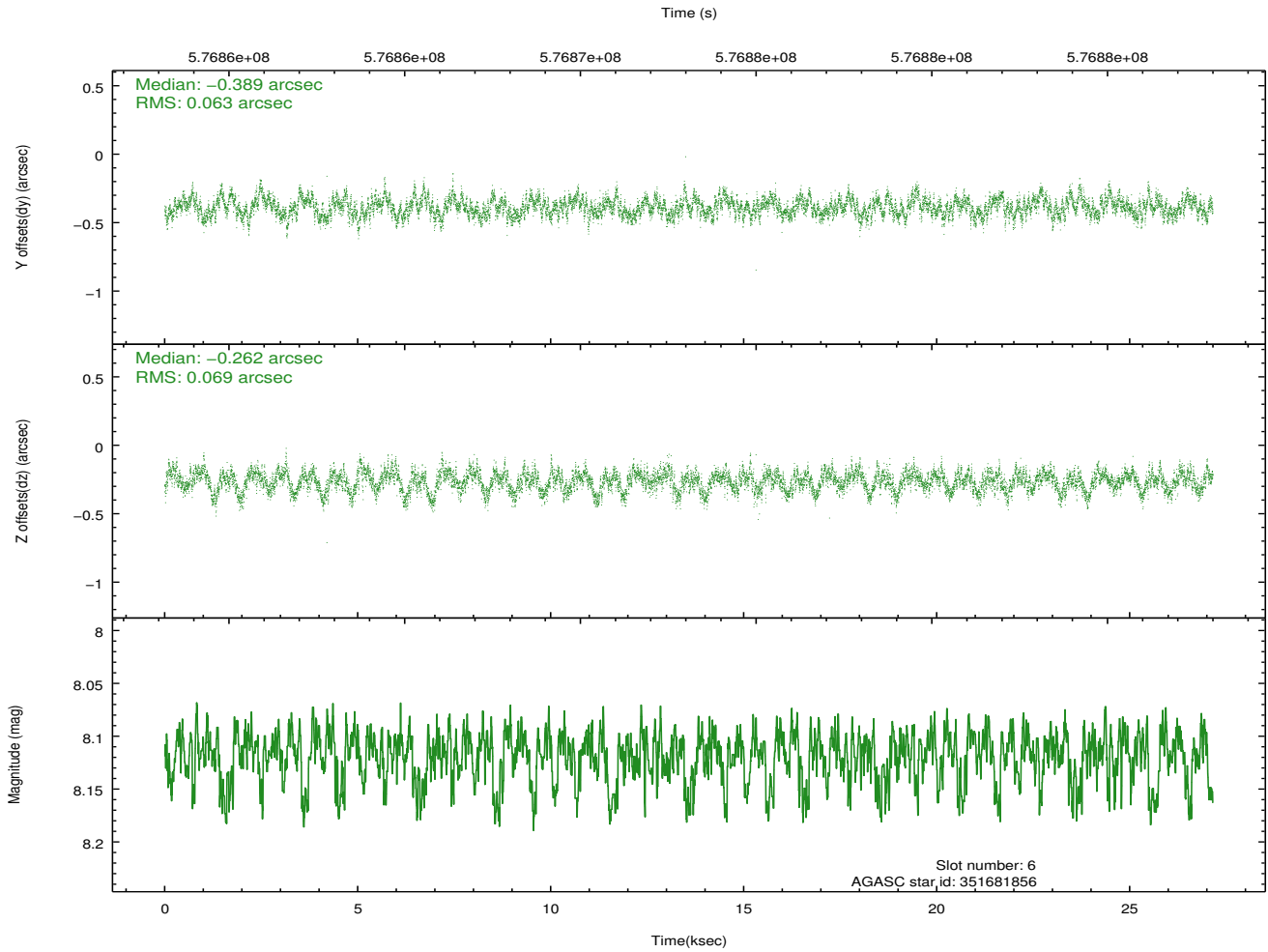
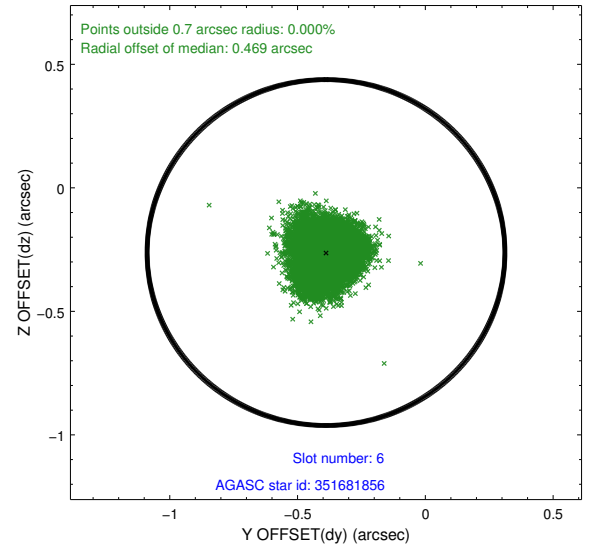
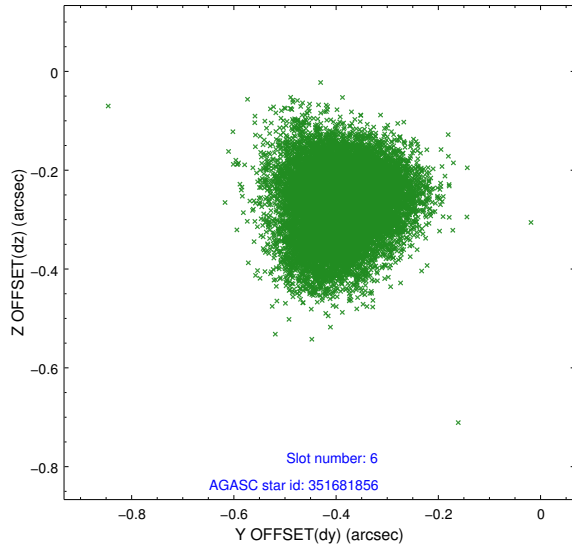
2.4.2 Slot 4



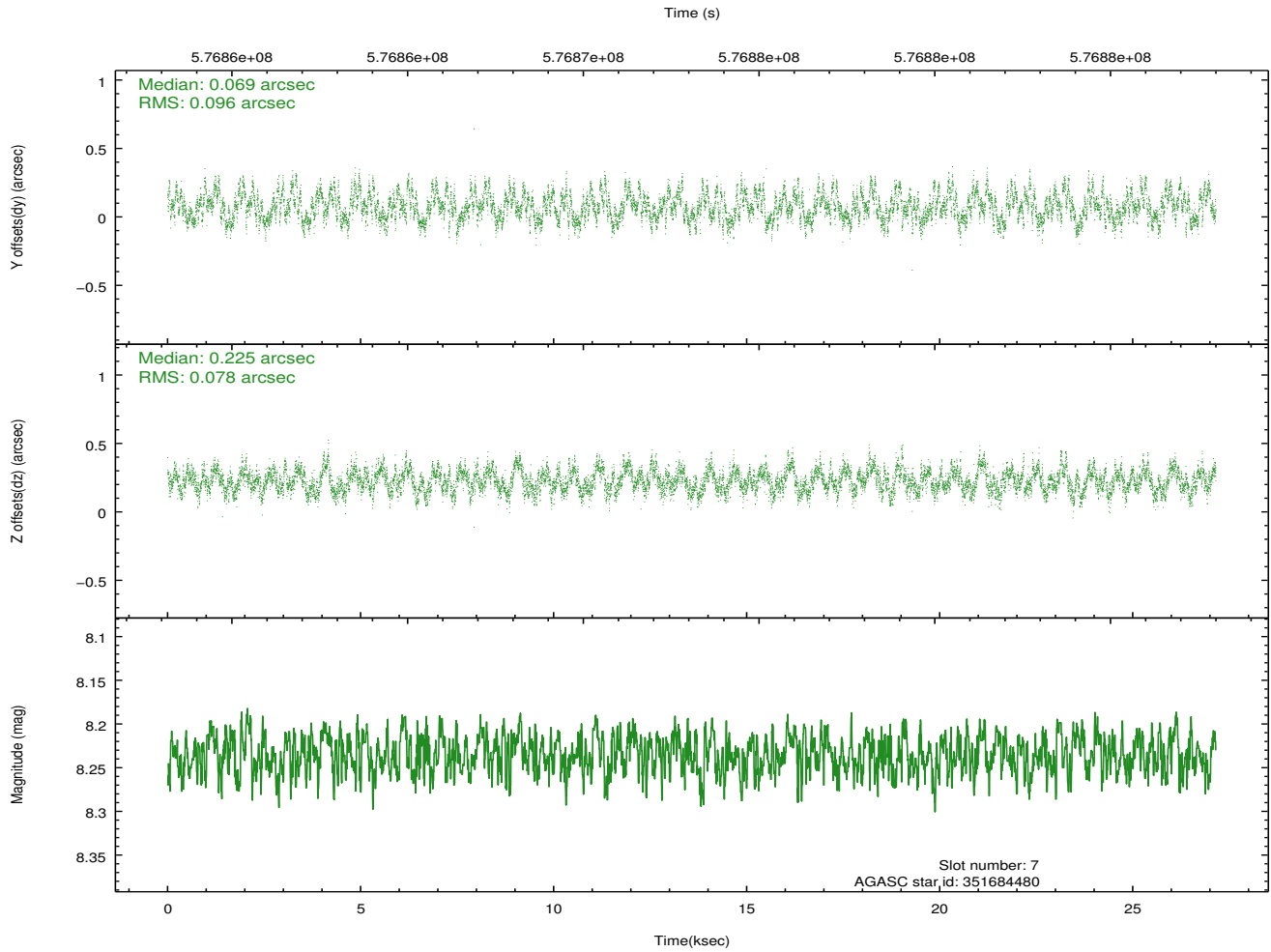
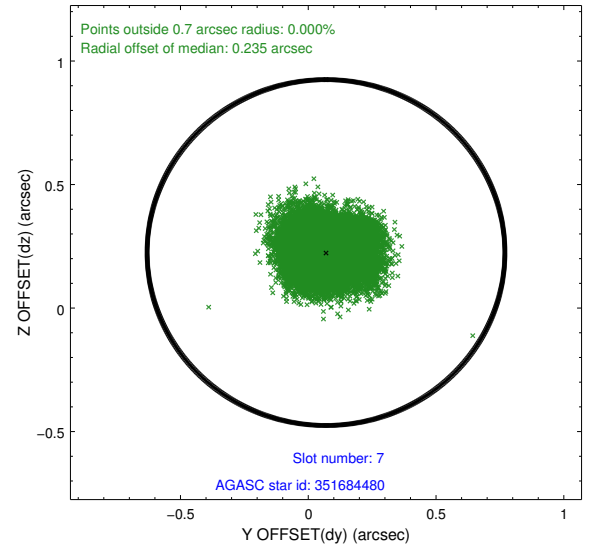
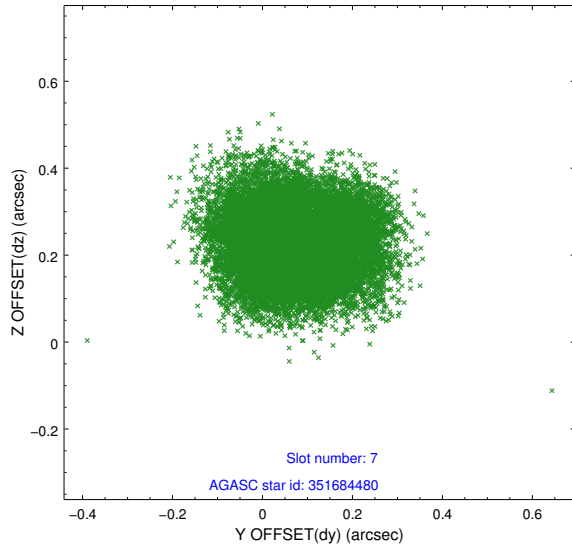
2.4.3 Slot 5



2.4.4 Slot 6

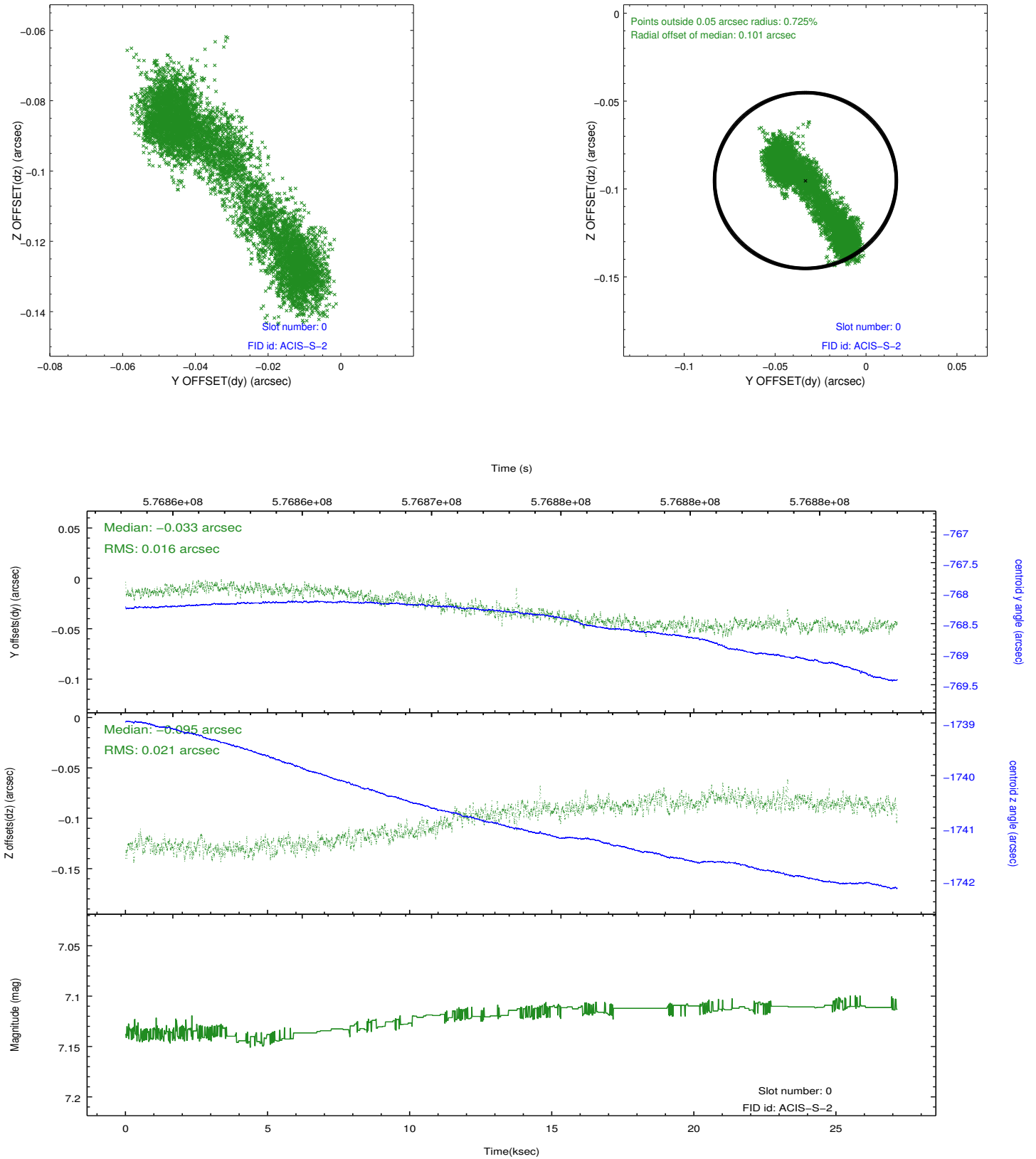


2.4.5 Slot 7

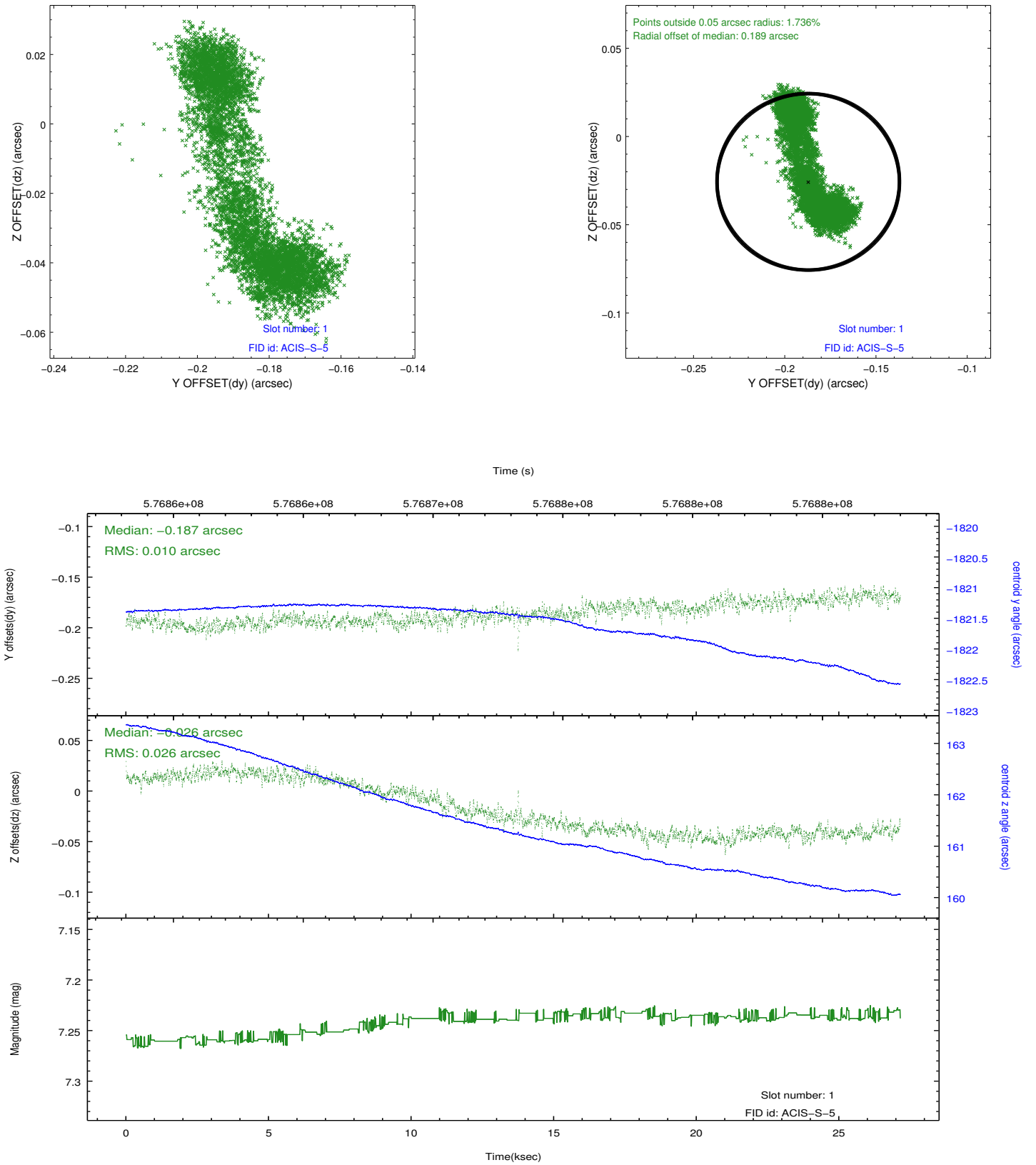


2.5 FID Slots

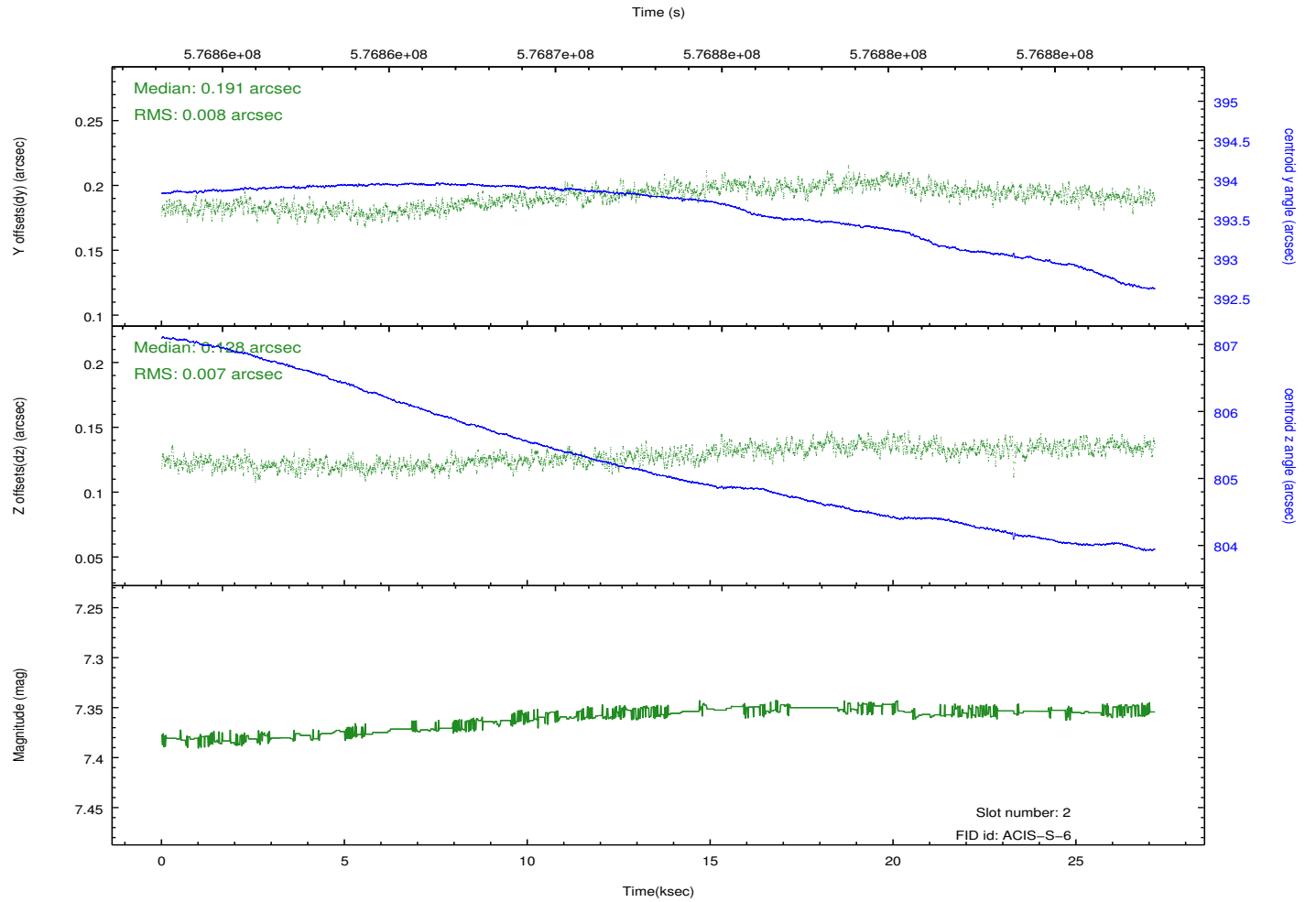
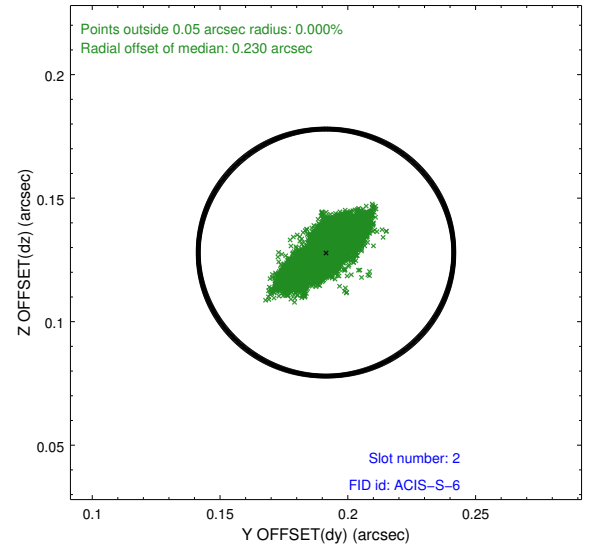
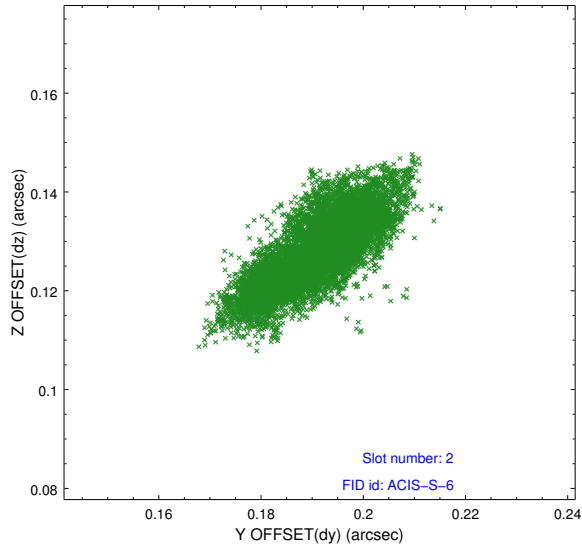
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

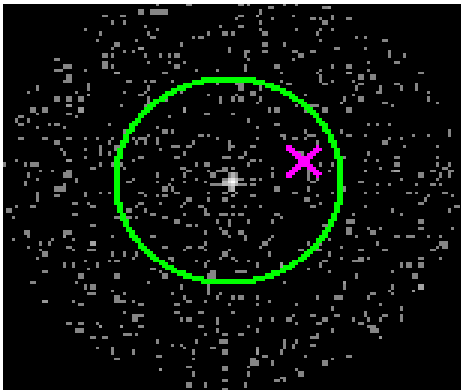


3 Gratings

3.1 HEG Arm



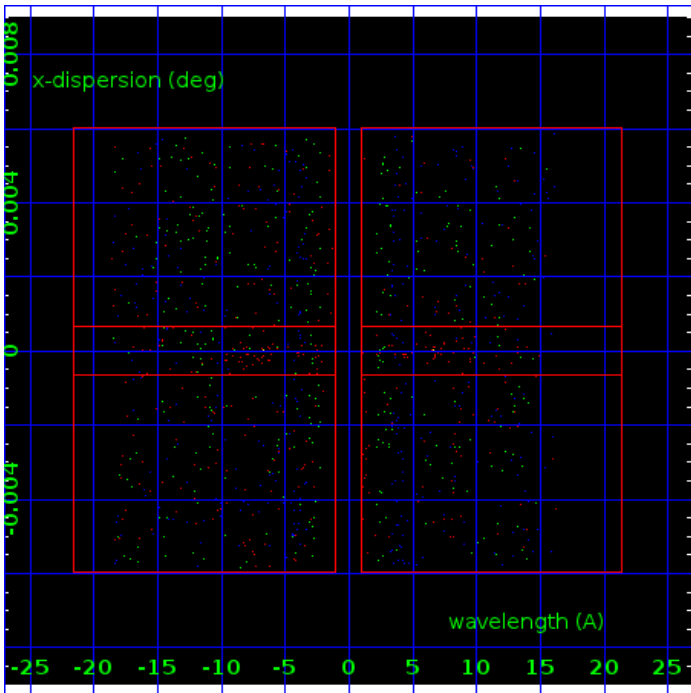
HEG Order Sort 123



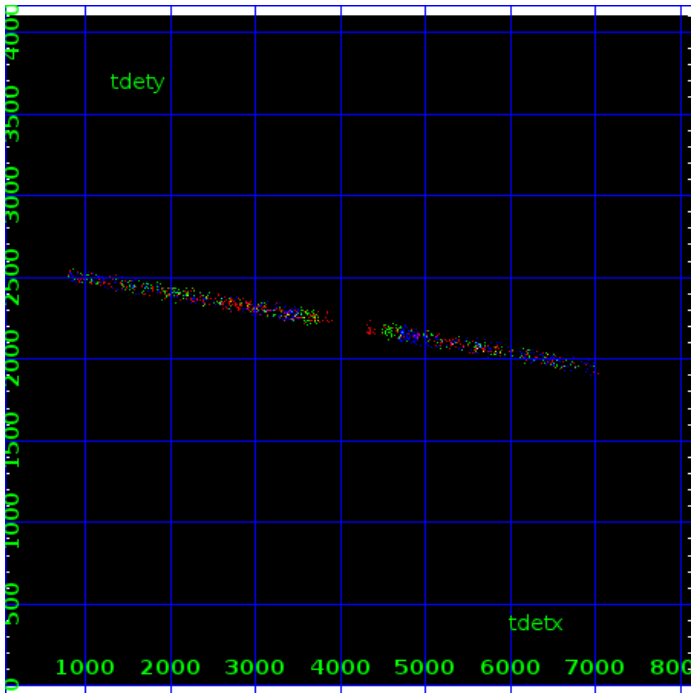
HEG Zero Order



HEG Order Sort ALL

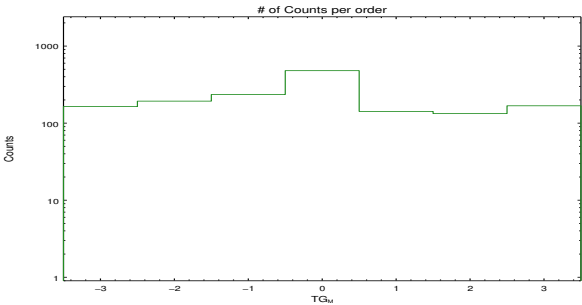


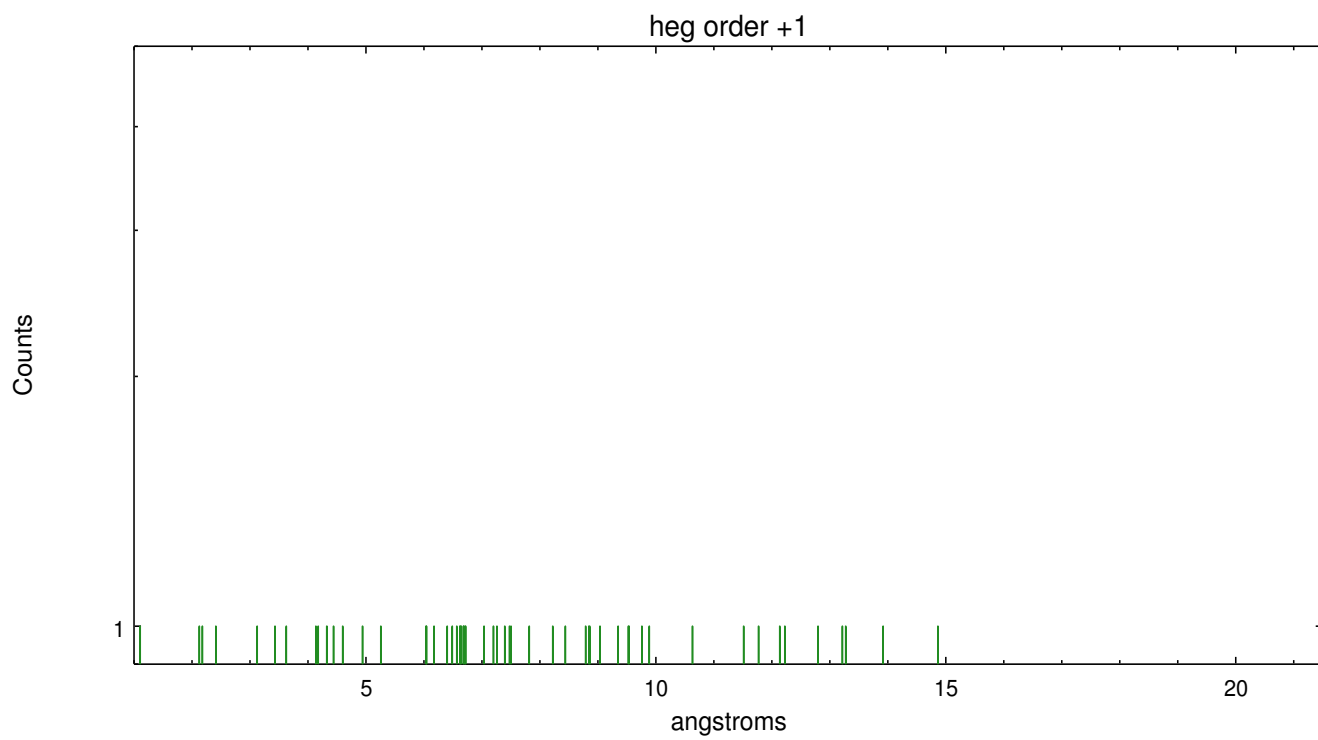
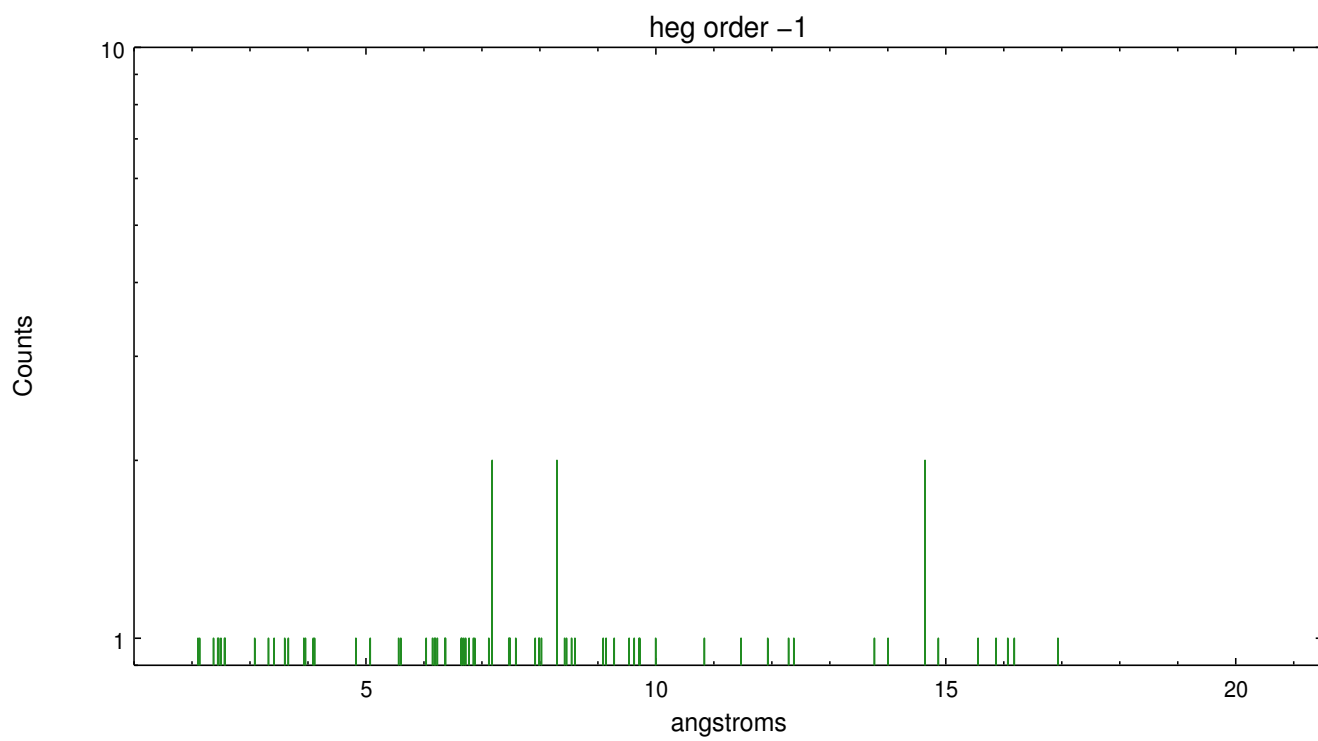
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	164	193	235	480	142	133	168

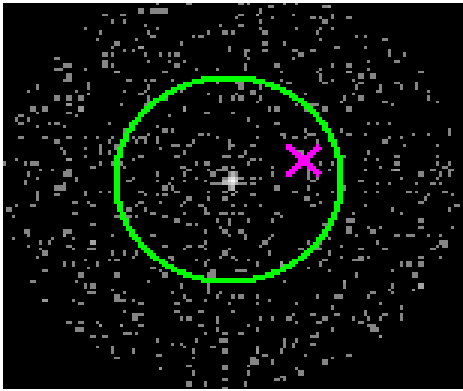




3.2 MEG Arm



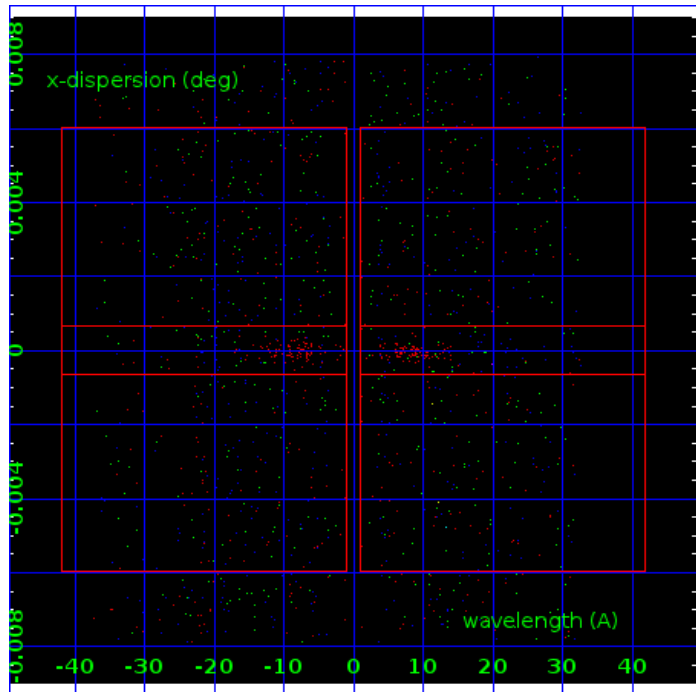
MEG Order Sort 123



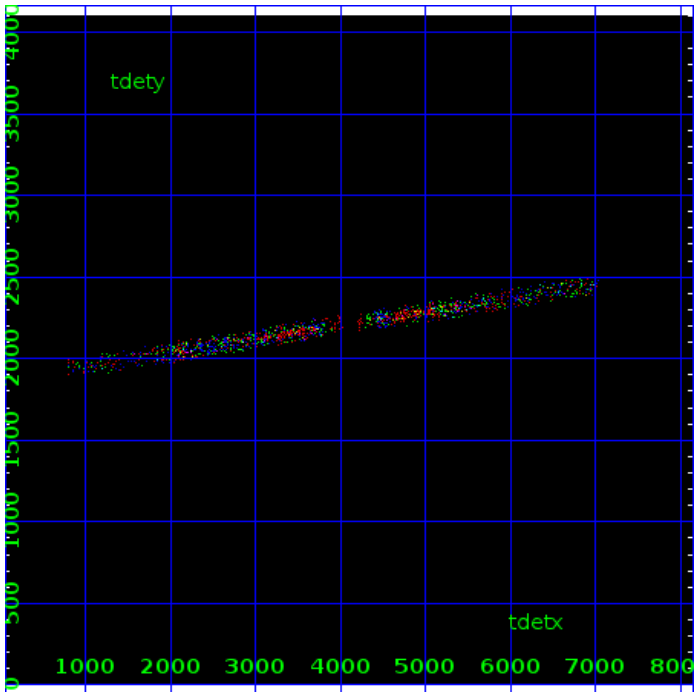
MEG Zero Order



MEG Order Sort ALL

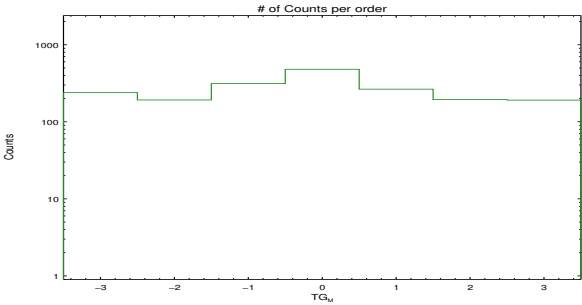


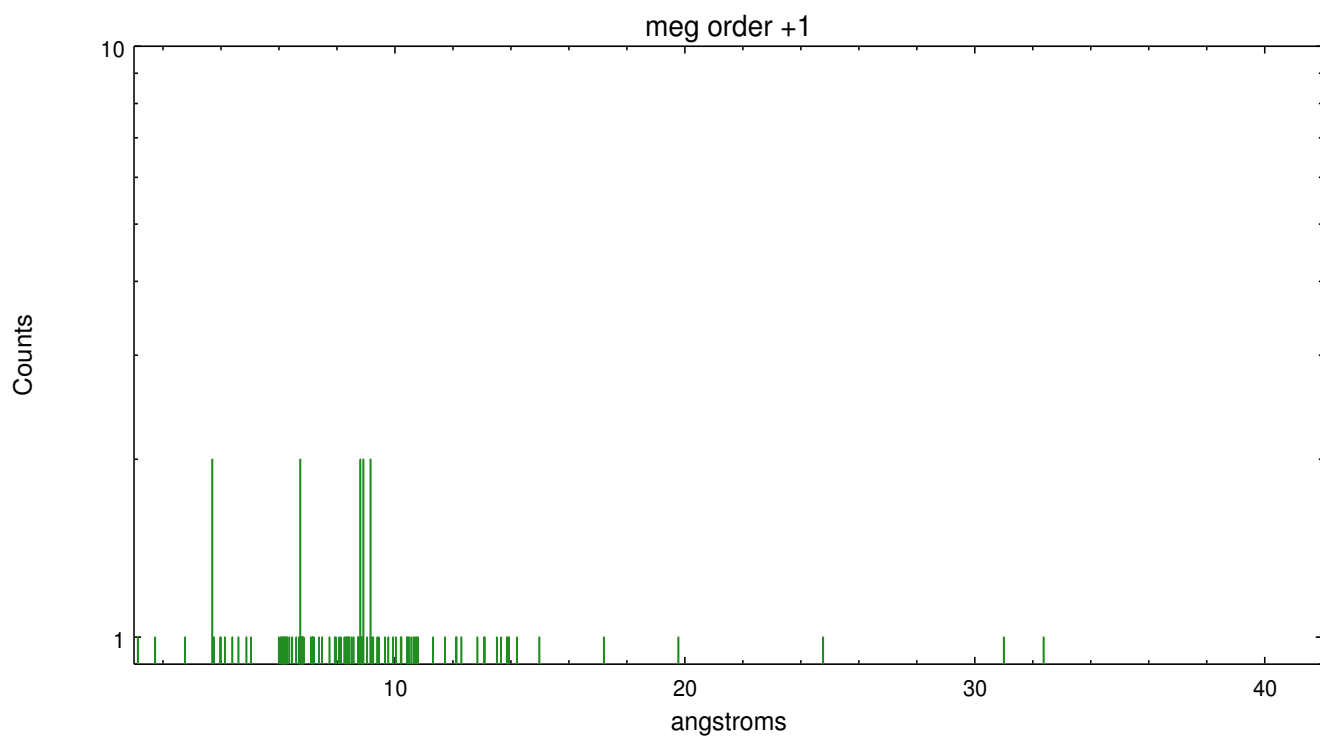
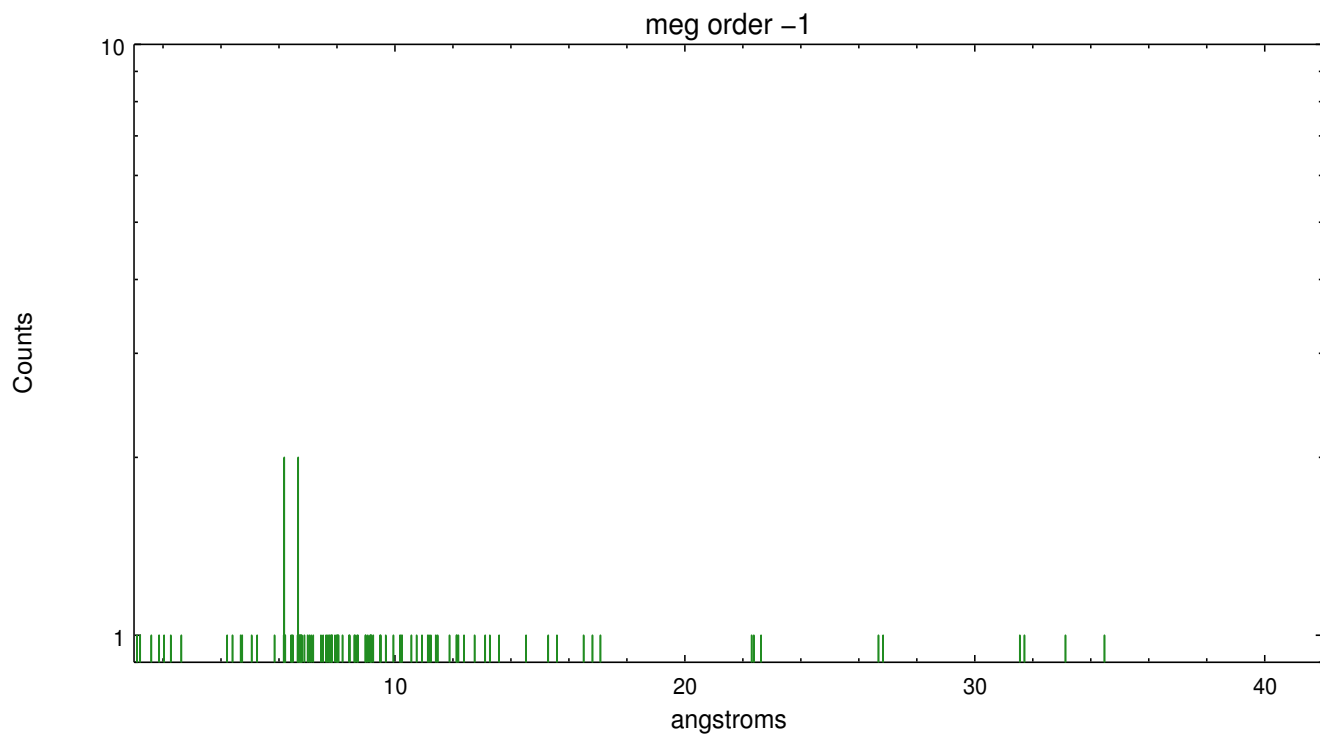
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	239	192	313	480	265	194	191





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.04.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.933945069551

A.2 Comments