

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7361 - L2 Version 2
Chandra X-Ray Center

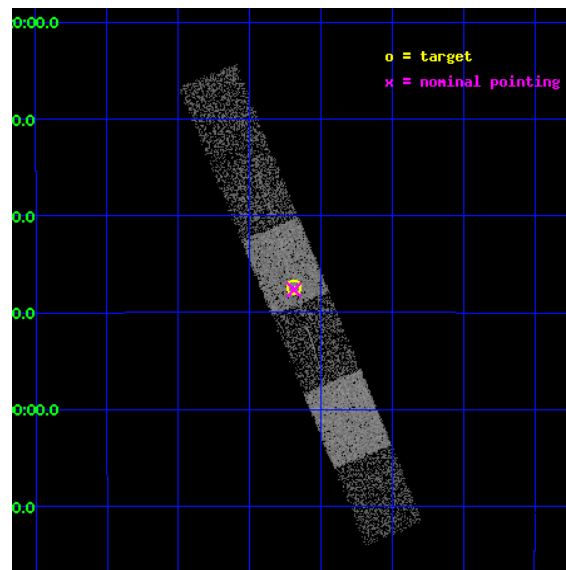
L2 Processing Date : Apr 30 2012

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1 Front

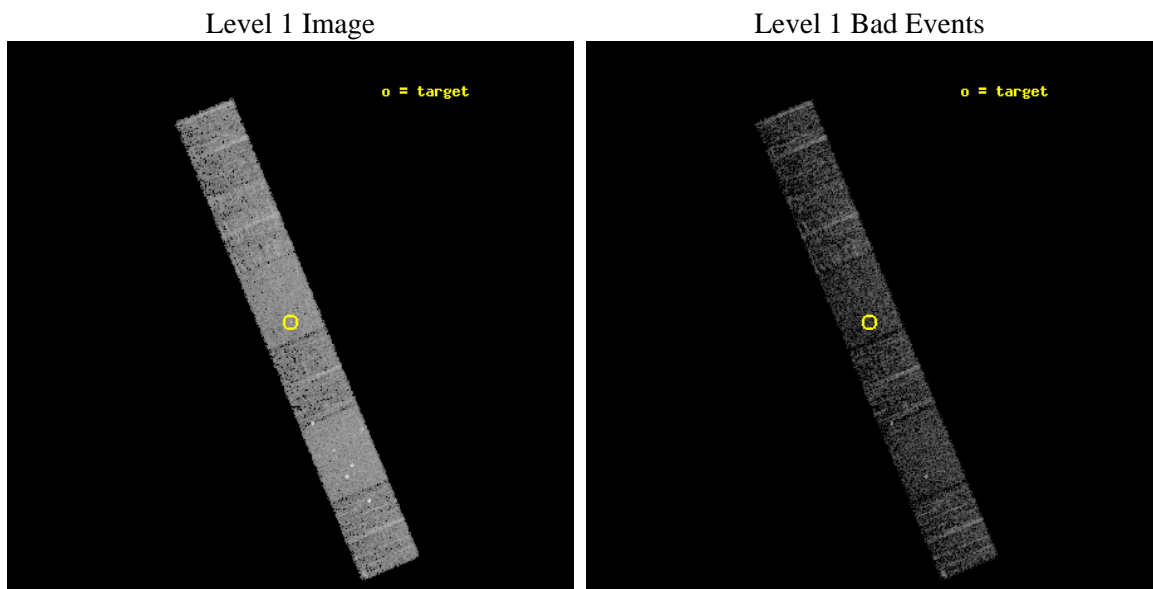
seq_num	701347	Sequence number
obs_id	7361	Observation id
title	Coordinated Spitzer/Chandra Observations of Gamma Ray Blazars	Prop
observer	Dr. Ann Wehrle	Principal investigator
object	3C279	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.046667	Observer's specified target RA [deg]
dec_targ	-5.789306	Observer's specified target Dec [deg]
ra_nom	194.04742522376	Nominal RA [deg]
dec_nom	-5.794097021181	Nominal Dec [deg]
roll_nom	247.51571105258	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2177.5	Sum of GTIs [s]
livetime	2142.3314863206	Livetime [s]
ontime4	2177.5	Sum of GTIs [s]
ontime5	2177.5	Sum of GTIs [s]
ontime6	2177.5	Sum of GTIs [s]
ontime7	2177.5	Sum of GTIs [s]
ontime8	2177.5	Sum of GTIs [s]
ontime9	2177.5	Sum of GTIs [s]
l2events	27523	Number of level 2 events



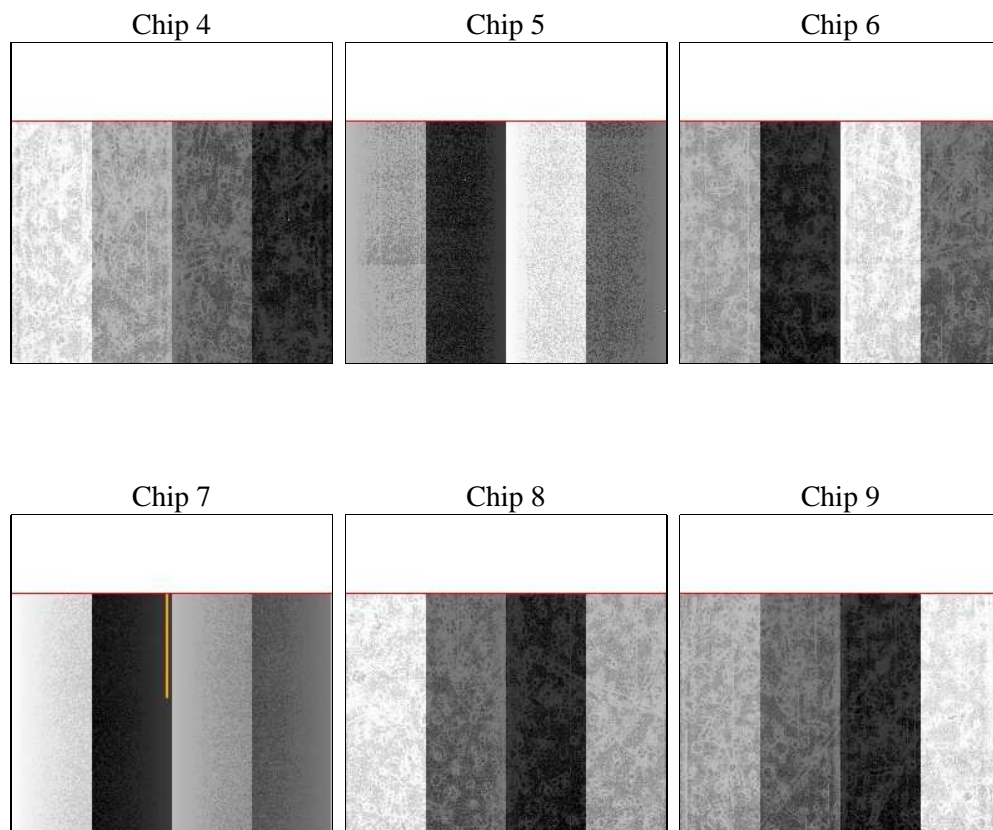
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2177.5	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	2177.5	Sum of GTIs [s]
date	2012-04-30T13:28:32	Date and time of file creation	ontime5	2177.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2177.5	Sum of GTIs [s]
			ontime7	2177.5	Sum of GTIs [s]
			ontime8	2177.5	Sum of GTIs [s]
			ontime9	2177.5	Sum of GTIs [s]
			l1events	178869	Number of level 1 events

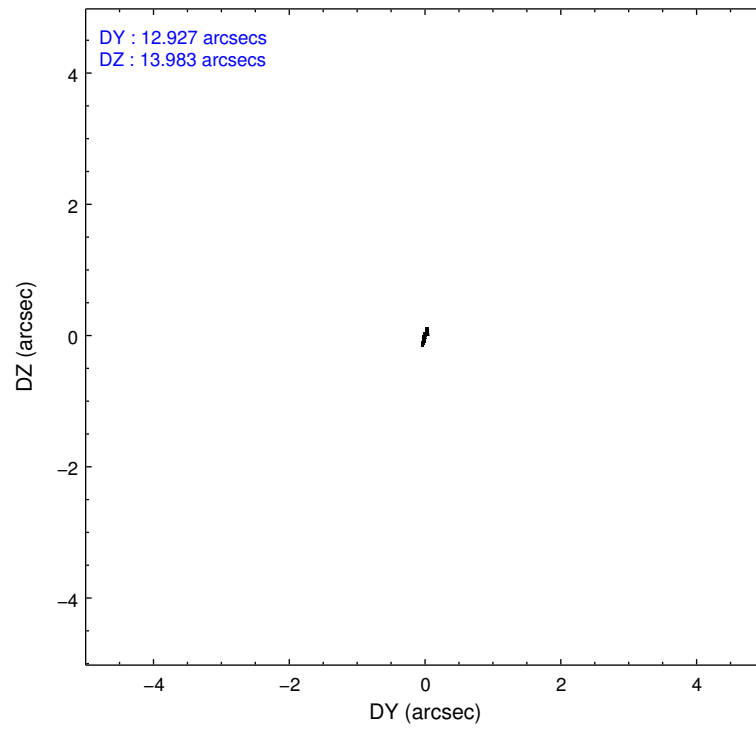
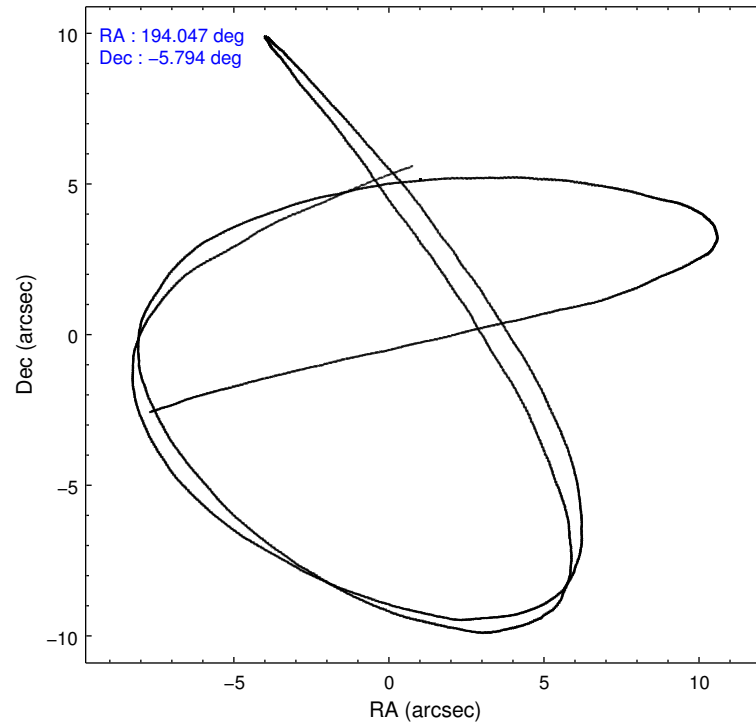
2.1.4 Events

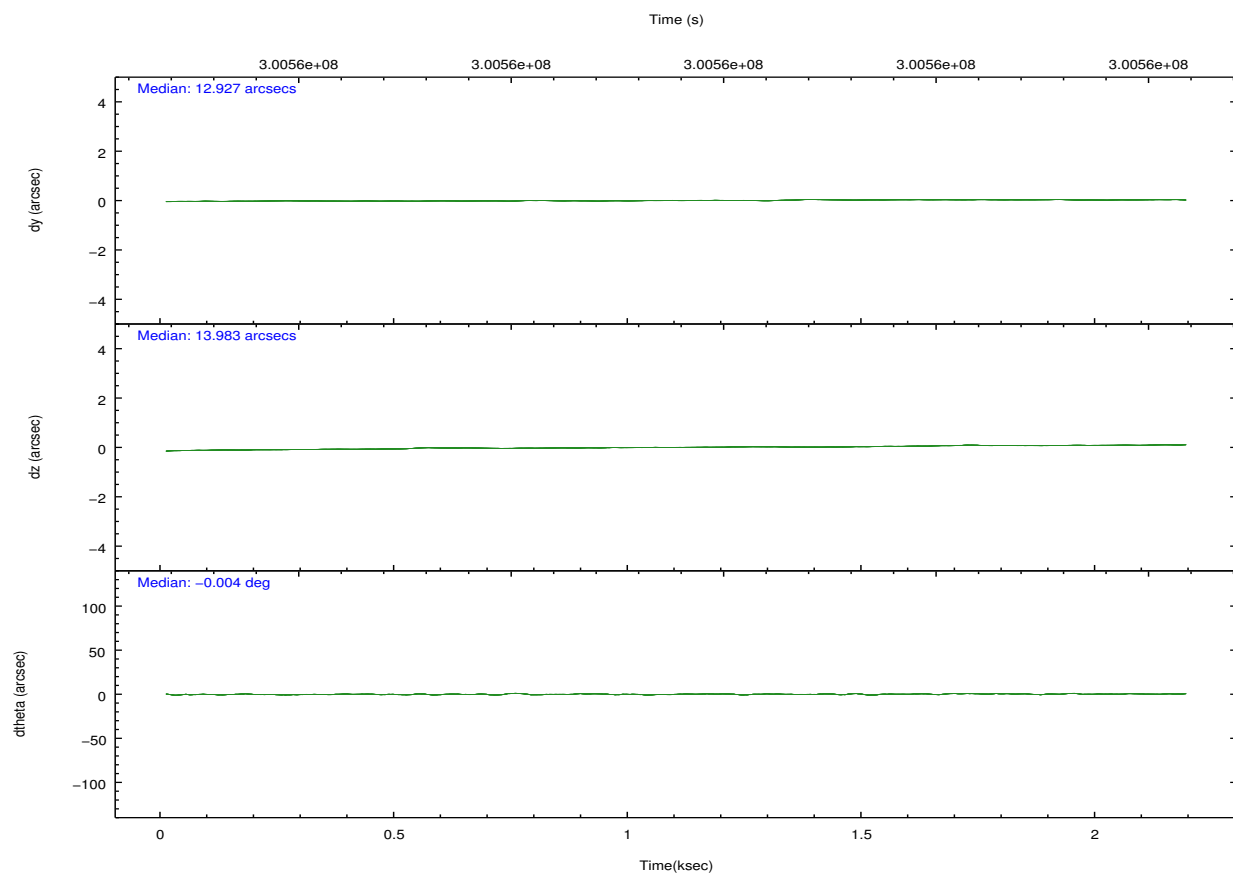
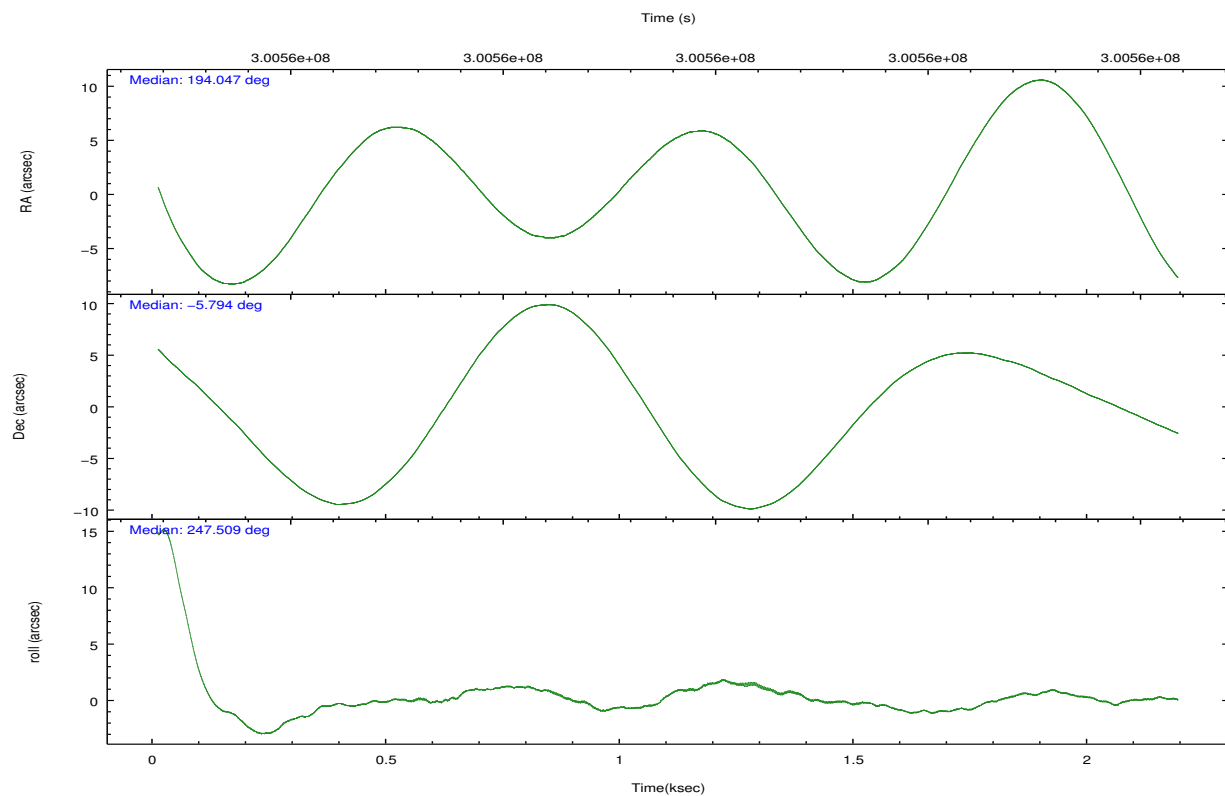
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	27666	38747	24061	32817	31531	24047	grade 0 events	2375	3111	1266	1245	2298	1235
rejected events	24893	26445	21925	23290	26682	22034		8%	8%	5%	3%	7%	5%
rejected %	89%	68%	91%	70%	84%	91%	grade 1 events	25	550	11	30	28	14
								0%	1%	0%	0%	0%	0%
							grade 2 events	659	5133	650	2859	1548	615
								2%	13%	2%	8%	4%	2%
							grade 3 events	328	744	310	1275	831	288
								1%	1%	1%	3%	2%	1%
							grade 4 events	308	713	294	1233	752	326
								1%	1%	1%	3%	2%	1%
							grade 5 events	1076	2775	1095	3094	1515	1169
								3%	7%	4%	9%	4%	4%
							grade 6 events	504	8880	622	7437	1833	565
								1%	22%	2%	22%	5%	2%
							grade 7 events	22391	16841	19813	15644	22726	19835
								80%	43%	82%	47%	72%	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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	194.043479	194.047425223764	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-5.767031	-5.79409702118095	Subarray start row	1	1
[deg] Pointing Roll	247.358678	247.5157110525765	Subarray row count	774	774
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	2.5
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	300562980.184000	300561323.95666			
Observation start date	2007-07-11T17:41:55	2007-07-11T17:15:23			
[s] Observation end time (MET)	300564980.184000	300566439.7319			
Observation end date	2007-07-11T18:15:15	2007-07-11T18:40:39			
Read mode	TIMED	TIMED			

2.3 Aspect



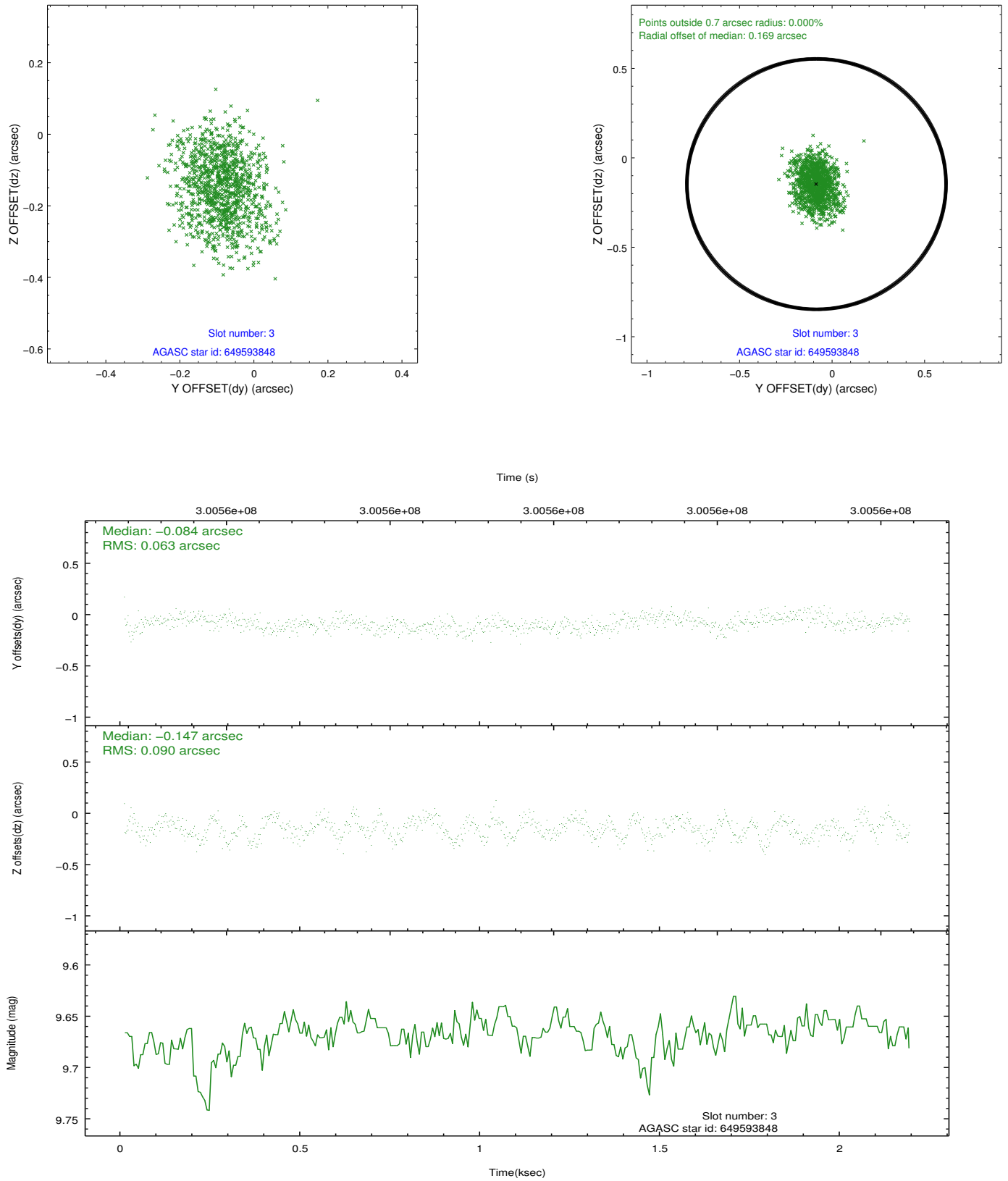


Slot Statistics

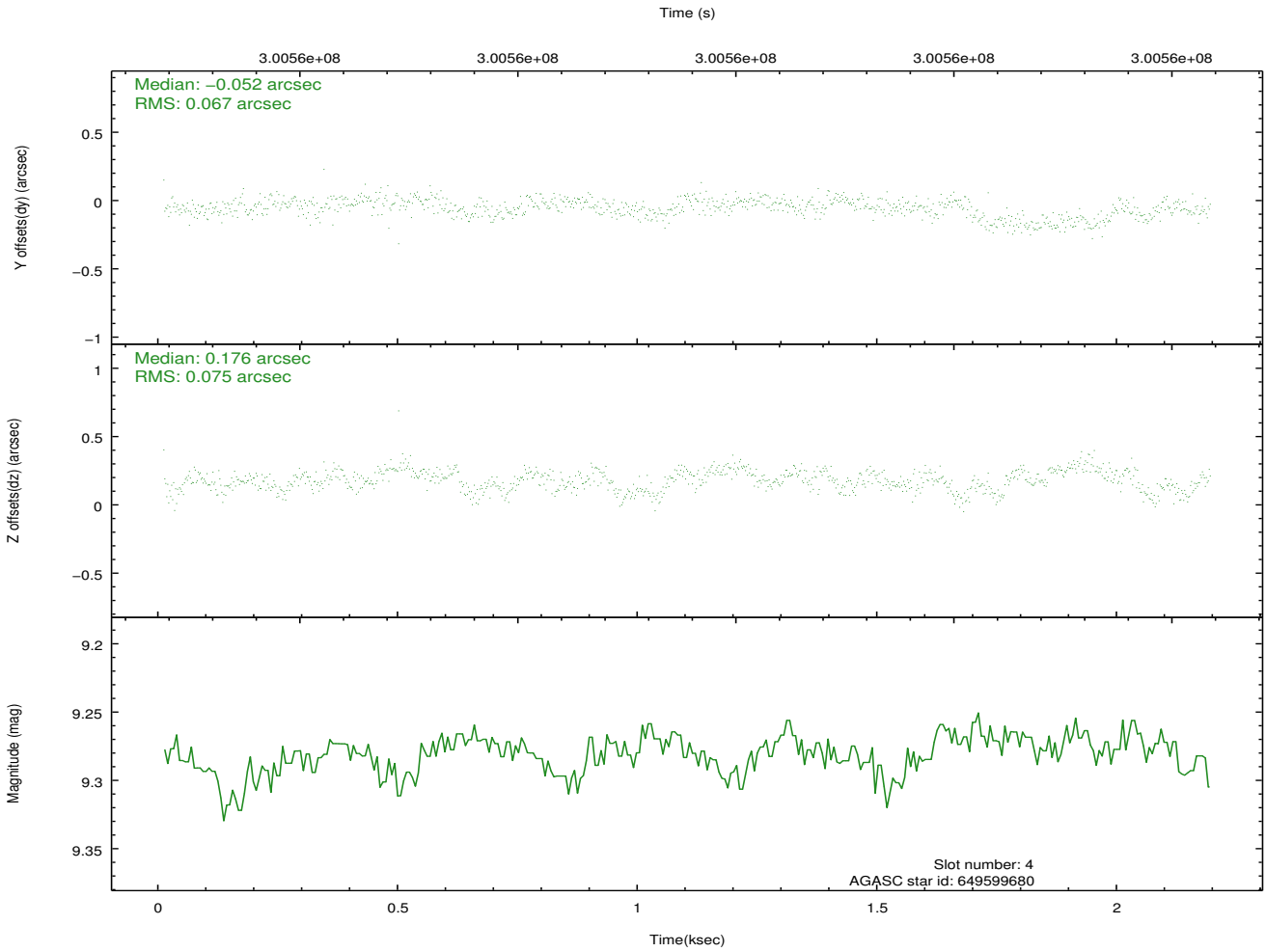
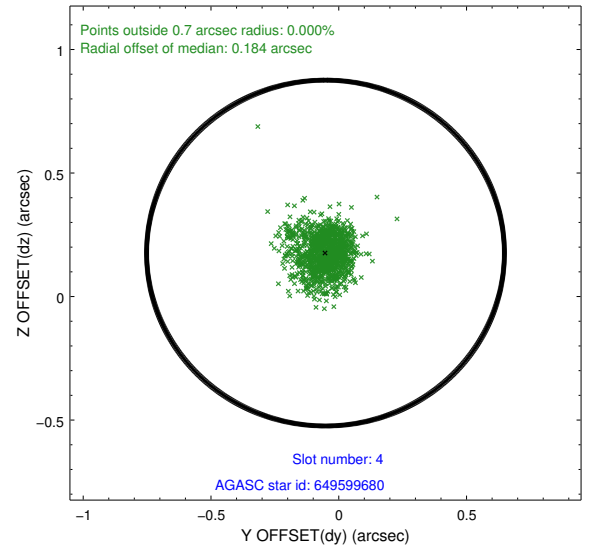
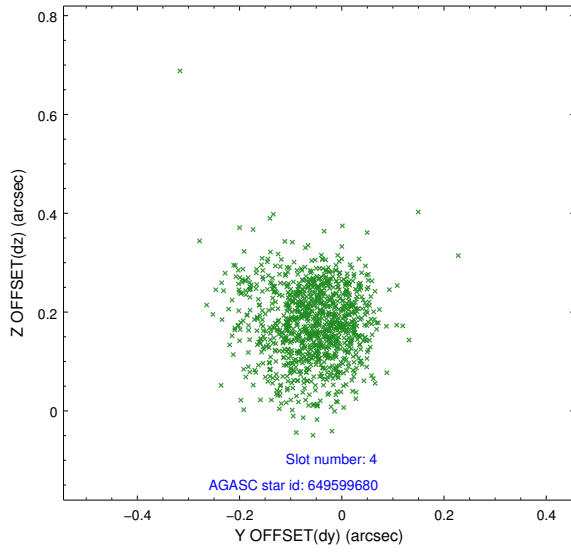
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	533	-0.093	-0.079	0.007	0.012	0.000000	0.000000	-765.73	-1797.50
1	FID	ACIS-S-4	7.18	533	0.202	0.066	0.006	0.011	0.000000	0.000000	2146.48	107.91
2	FID	ACIS-S-5	7.23	533	-0.140	0.022	0.007	0.011	0.000000	0.000000	-1814.79	104.94
3	GUIDE	649593848	9.67	1066	-0.084	-0.147	0.118	0.188	193.582784	-5.335880	-795.76	-2121.21
4	GUIDE	649599680	9.28	1066	-0.052	0.176	0.104	0.171	194.094993	-5.408421	-1263.10	-328.42
5	GUIDE	649599704	8.65	1066	0.081	0.001	0.063	0.104	194.128261	-6.327014	1743.05	1055.73
6	GUIDE	649601232	8.45	1066	-0.081	0.092	0.059	0.098	194.416640	-6.392285	1565.63	2100.27
7	GUIDE	649594216	9.47	1064	0.145	-0.113	0.119	0.207	193.273989	-6.022654	1914.24	-2185.58

2.4 Star Slots

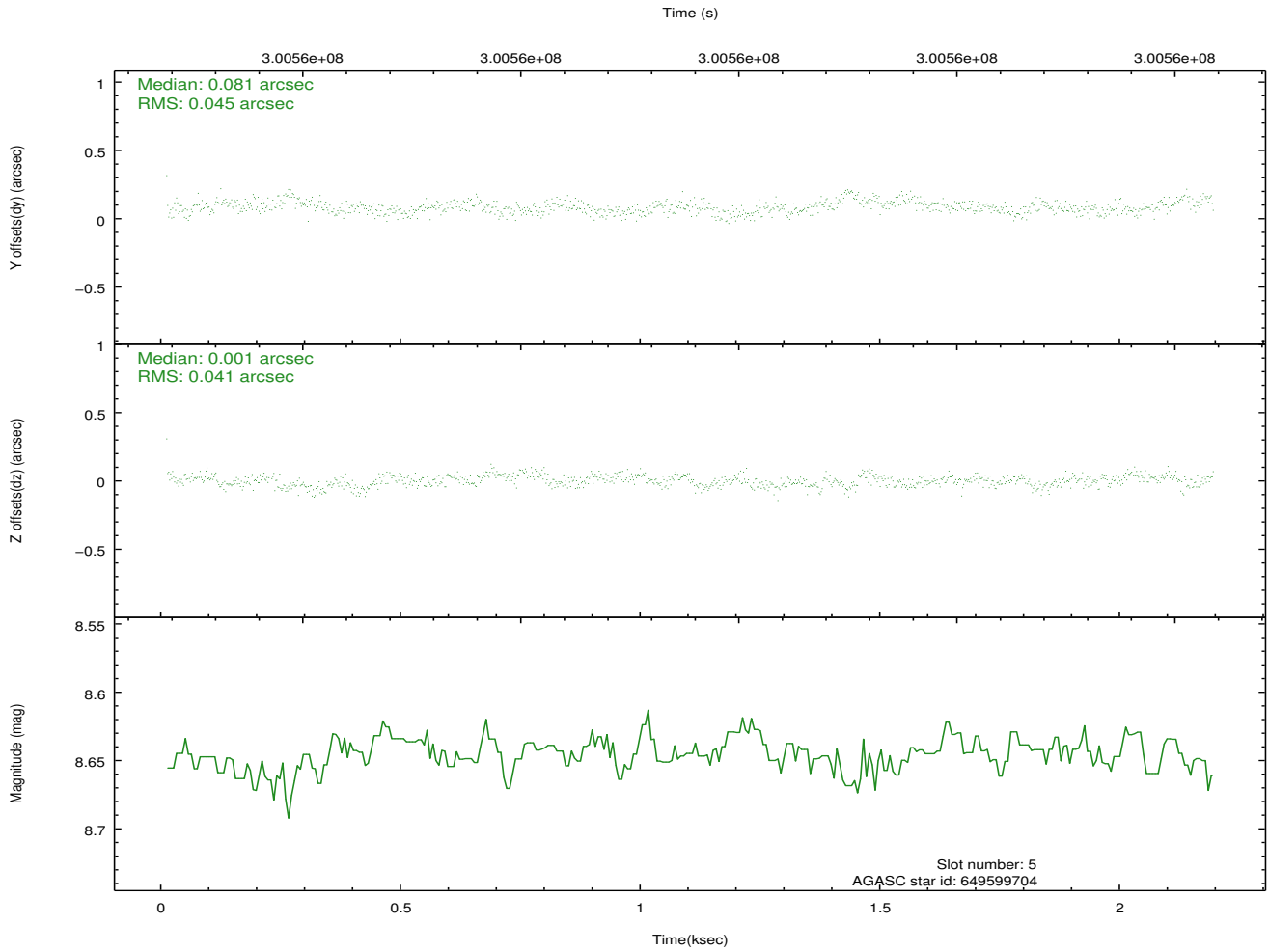
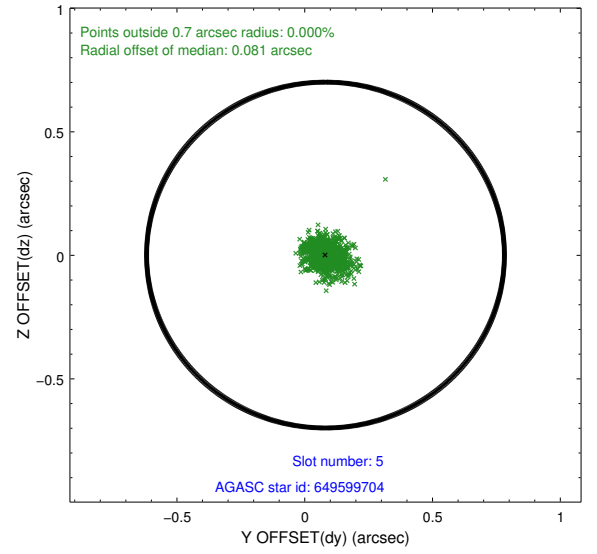
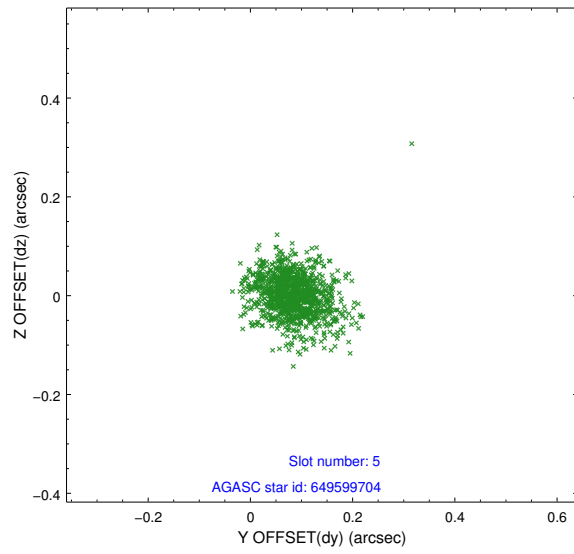
2.4.1 Slot 3



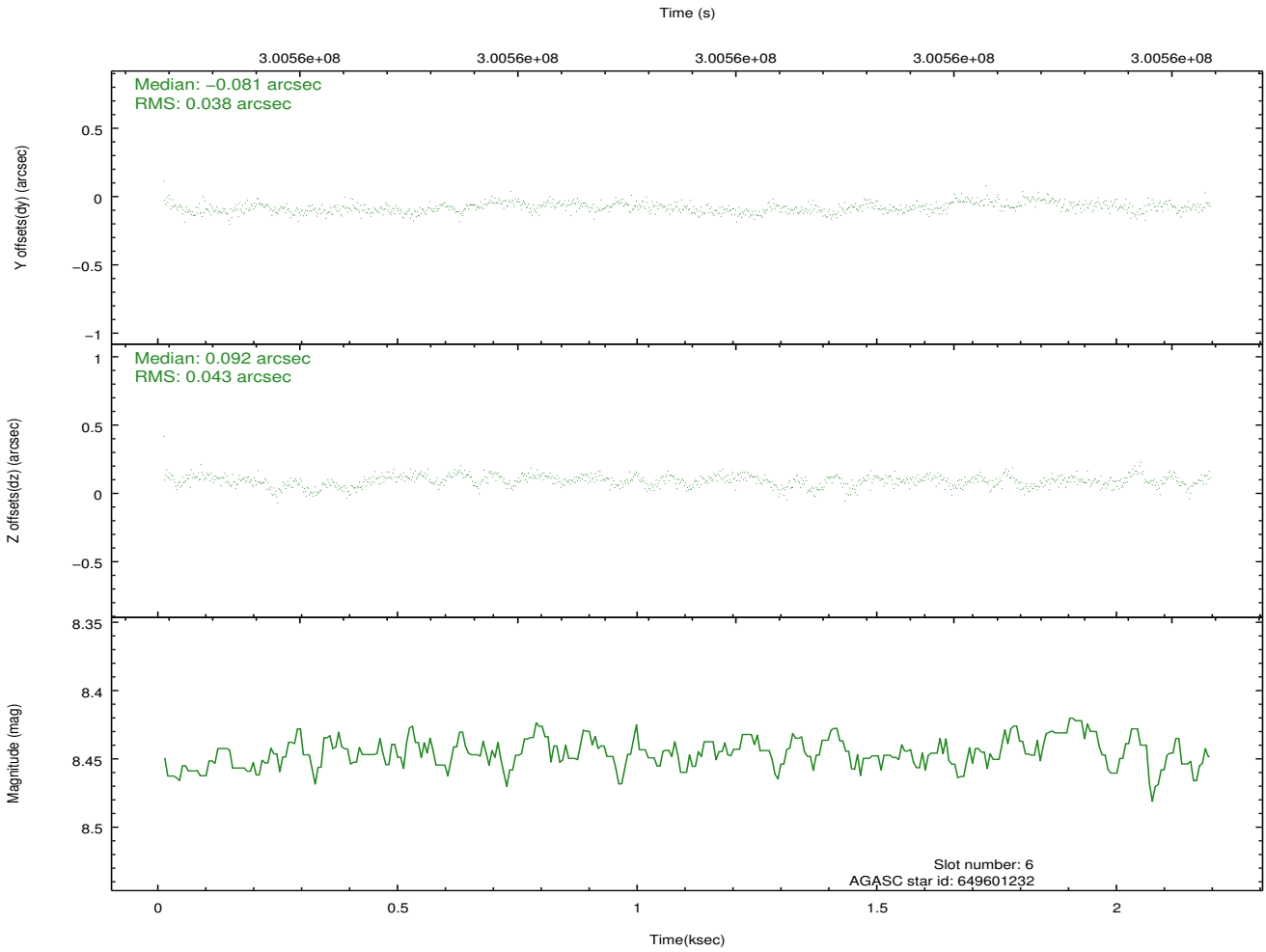
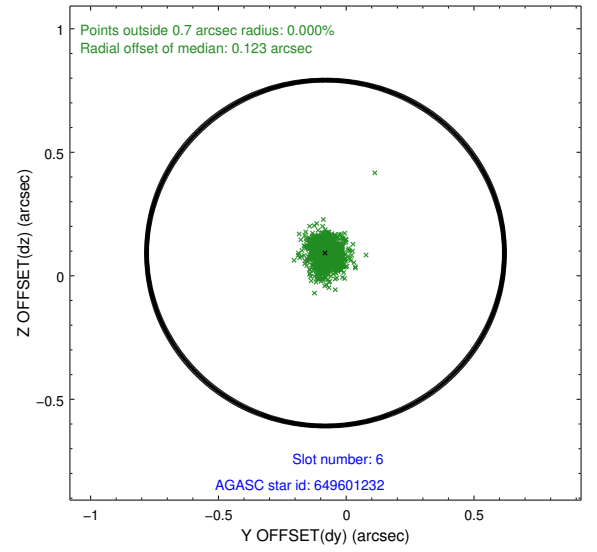
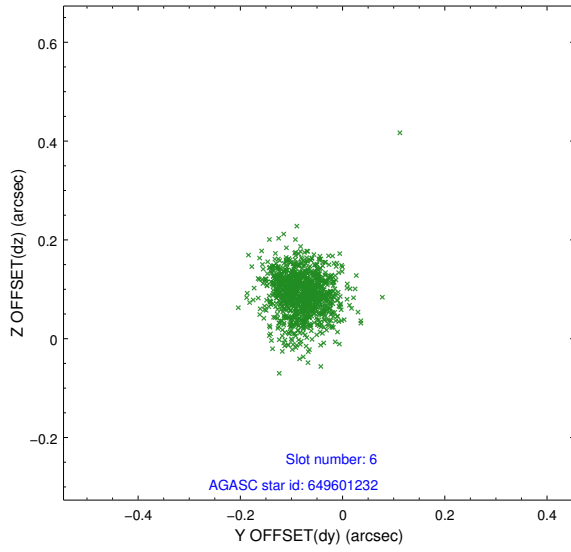
2.4.2 Slot 4



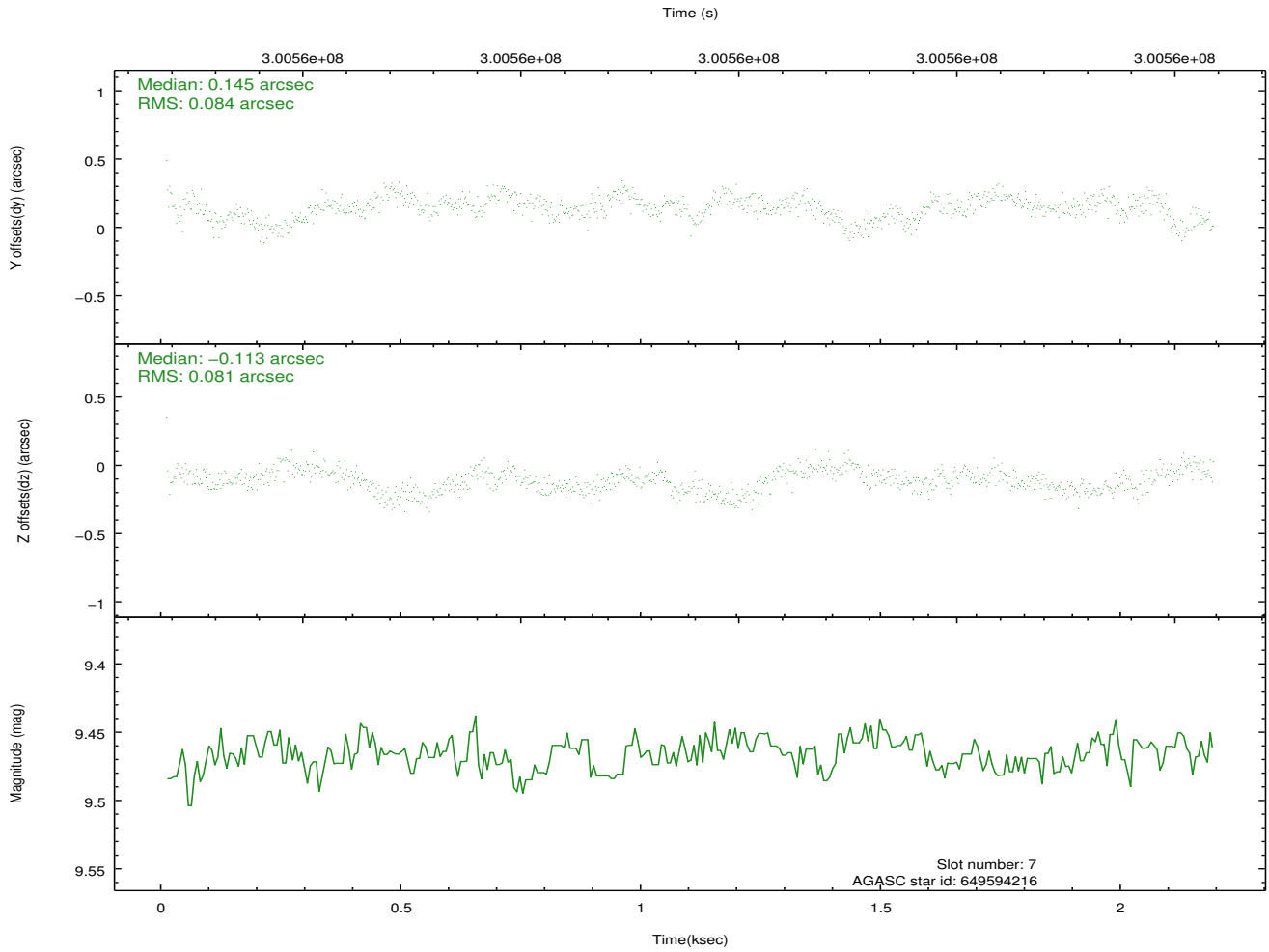
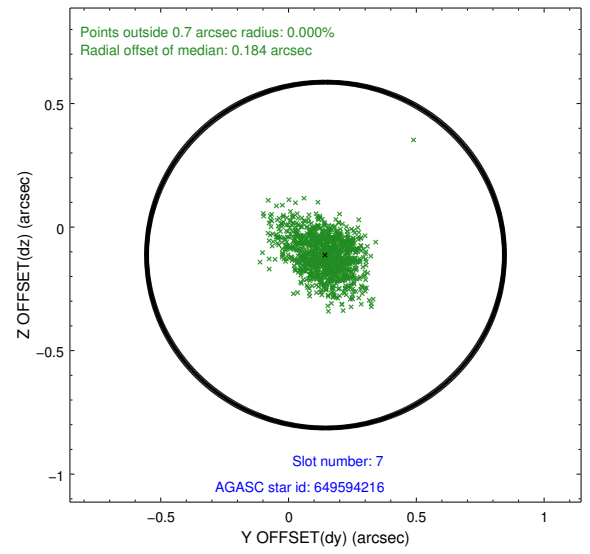
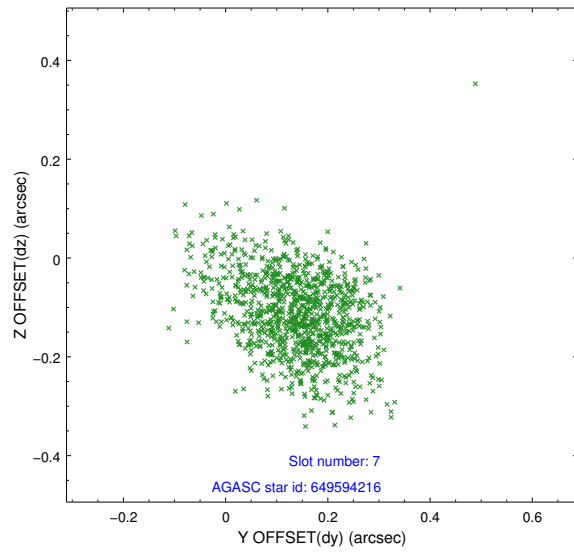
2.4.3 Slot 5



2.4.4 Slot 6

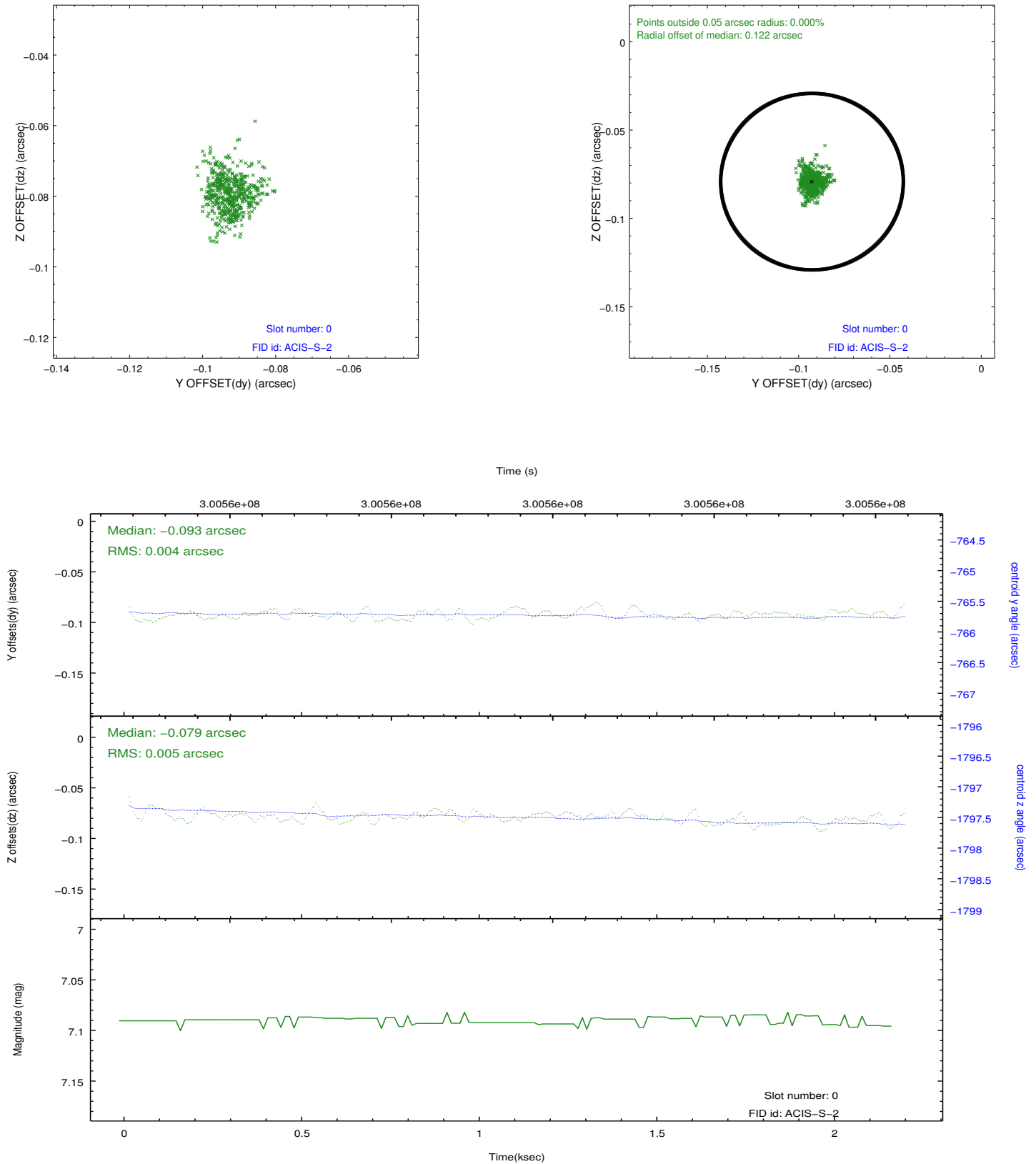


2.4.5 Slot 7

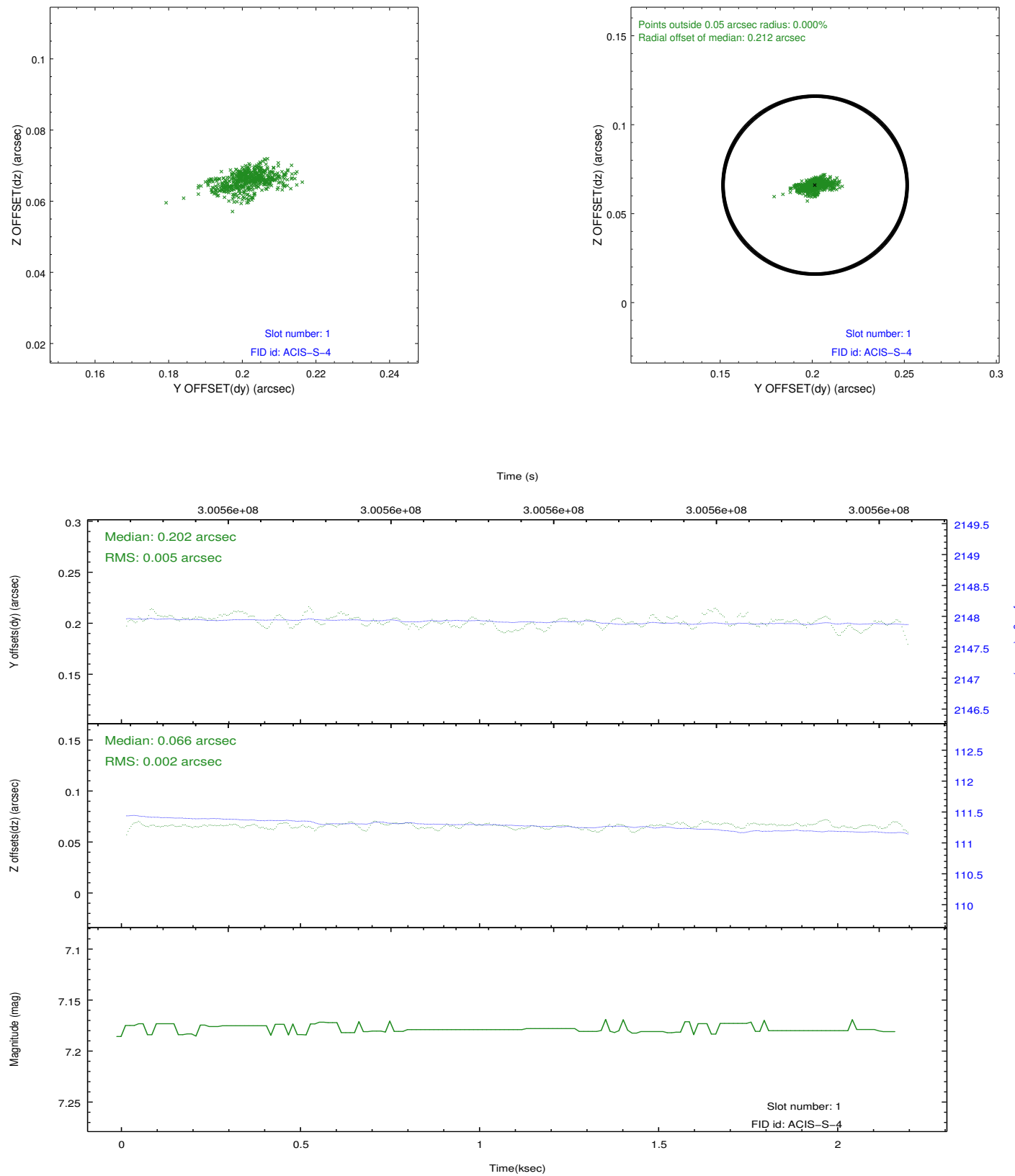


2.5 FID Slots

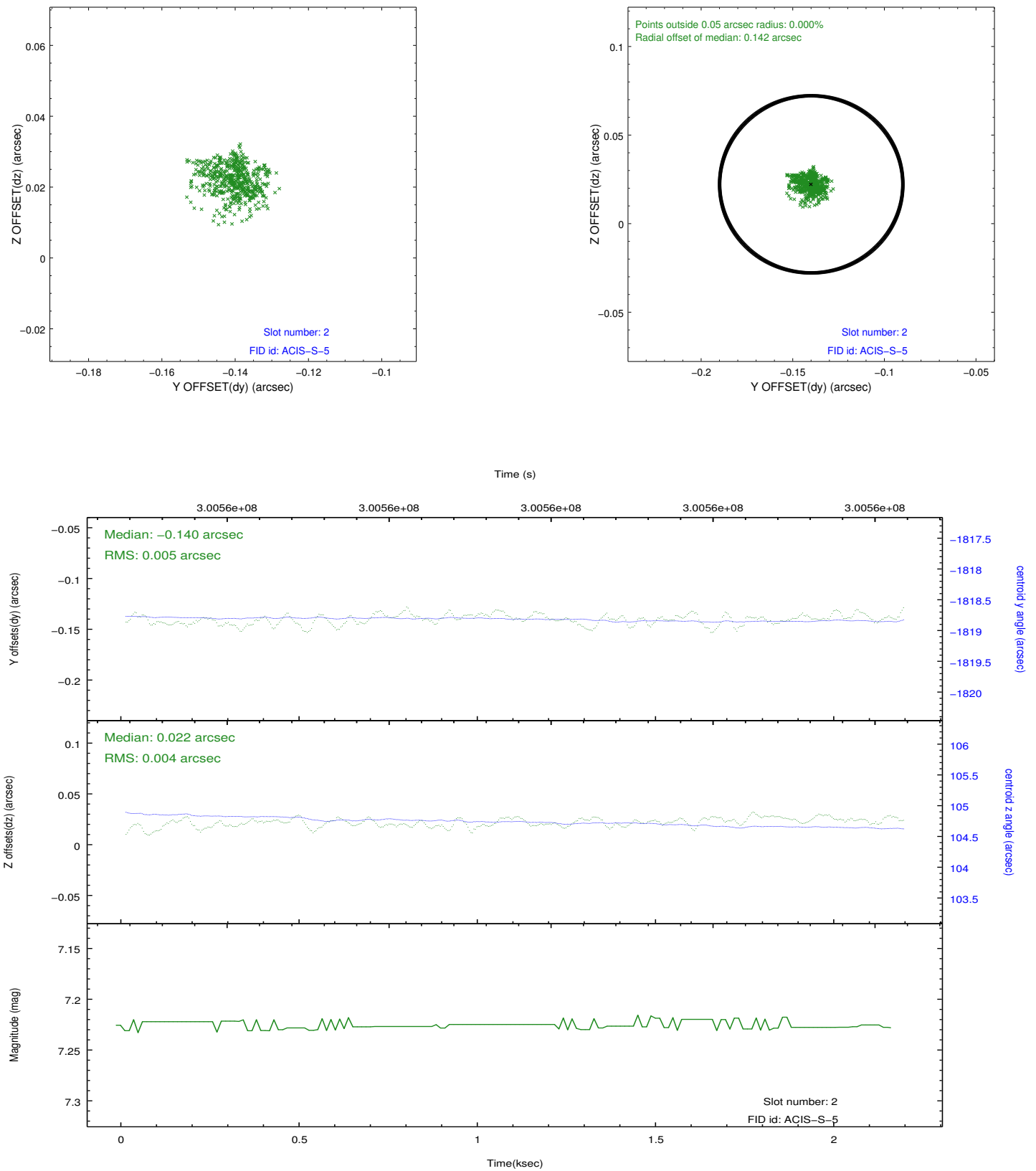
2.5.1 Slot 0



2.5.2 Slot 1

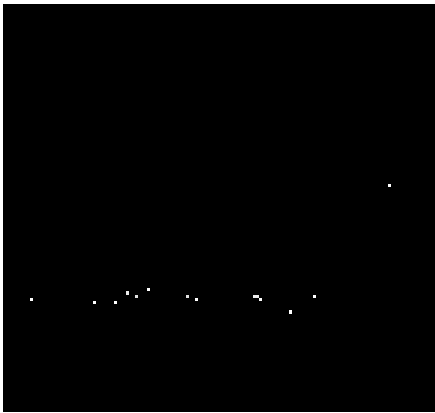


2.5.3 Slot 2

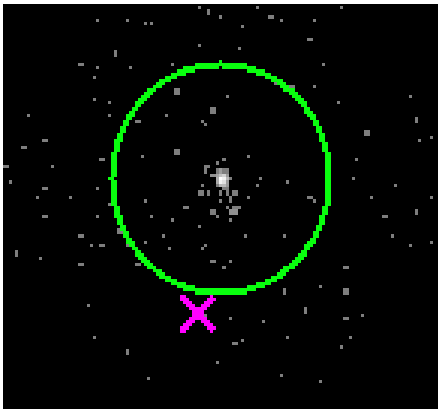


3 Gratings

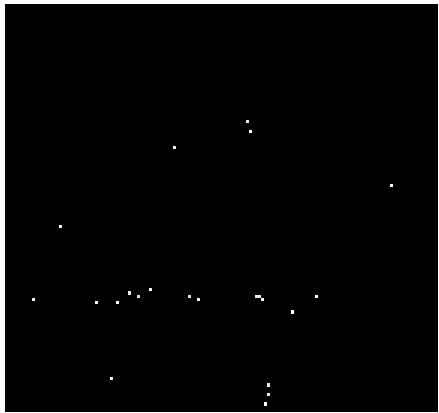
3.1 HEG Arm



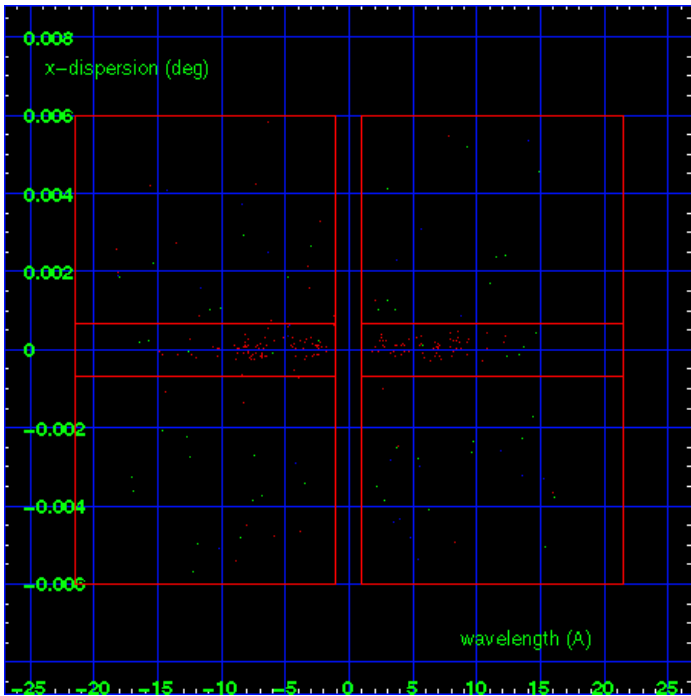
HEG Order Sort 123



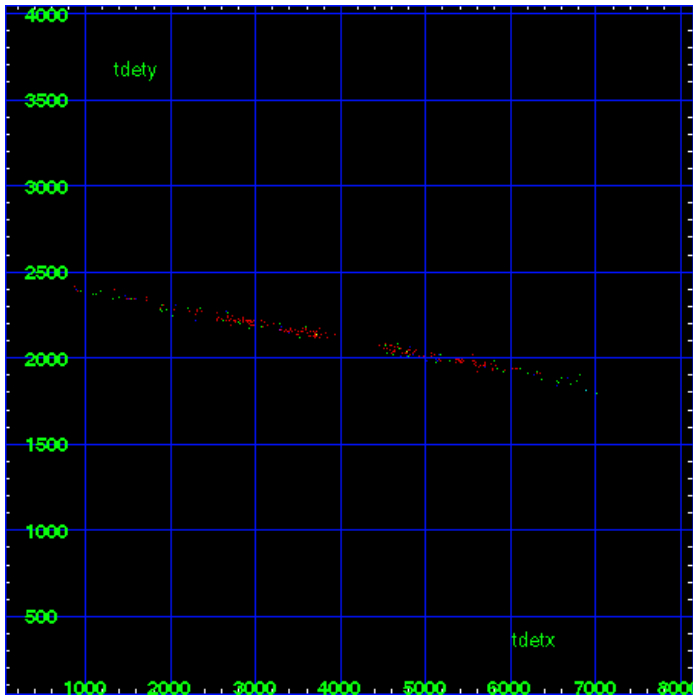
HEG Zero Order



HEG Order Sort ALL

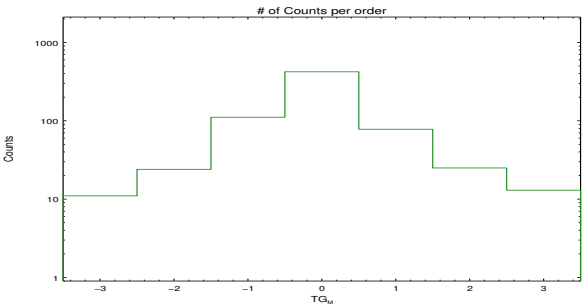


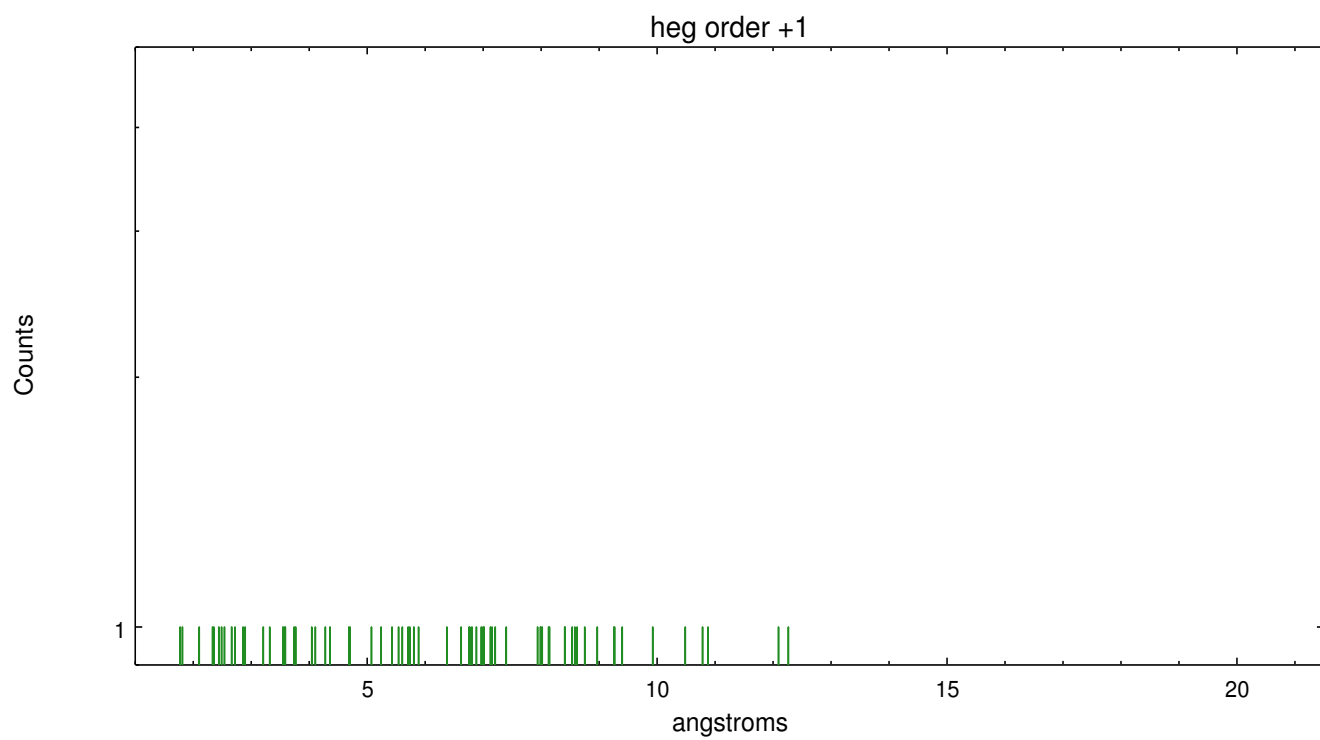
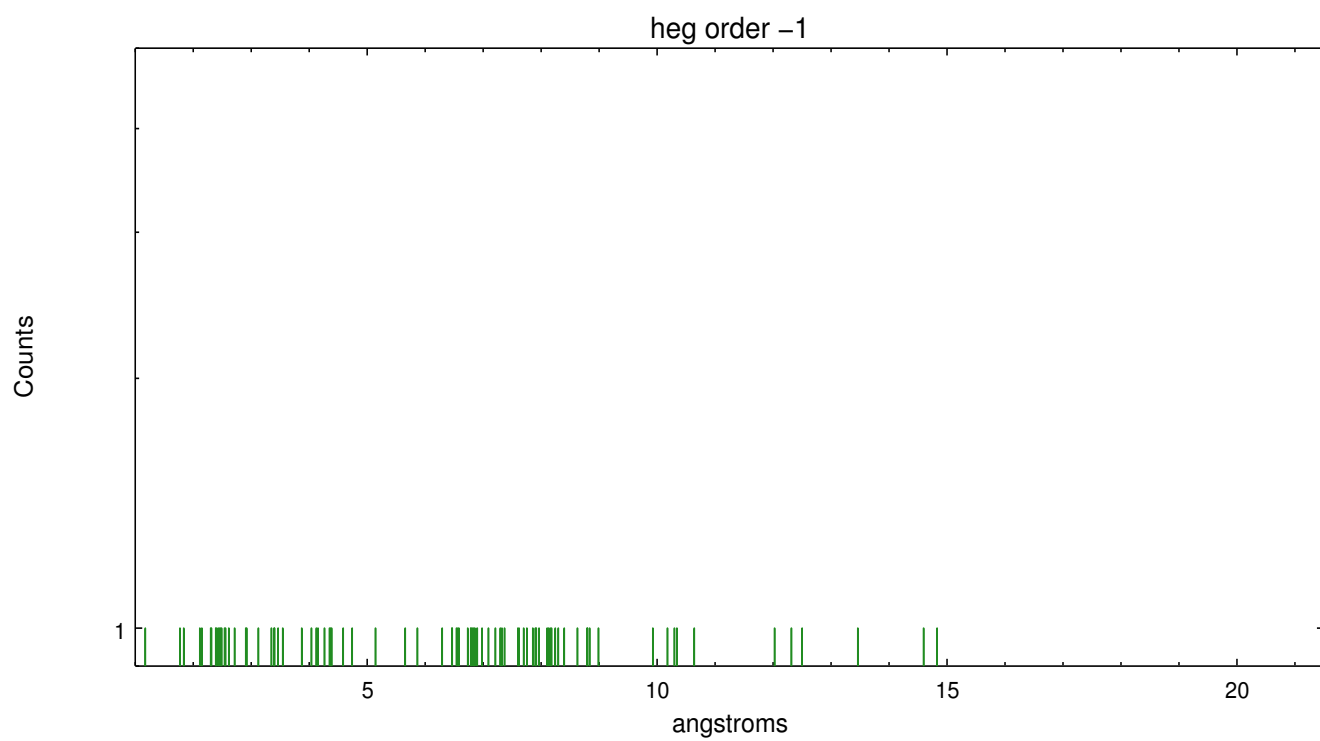
Spot Image HEG



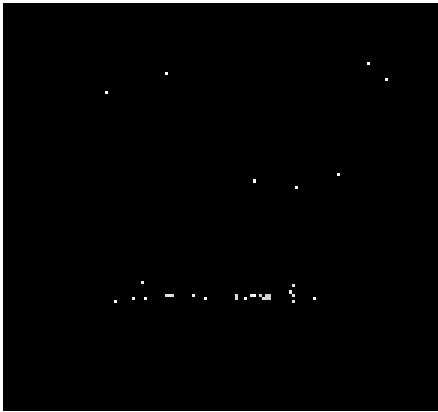
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	11	24	111	422	78	25	13

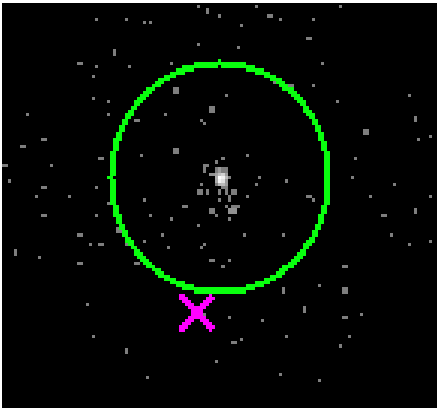




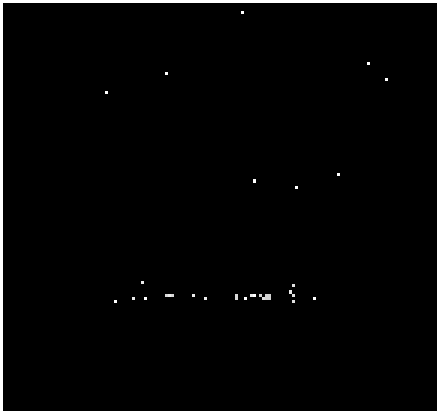
3.2 MEG Arm



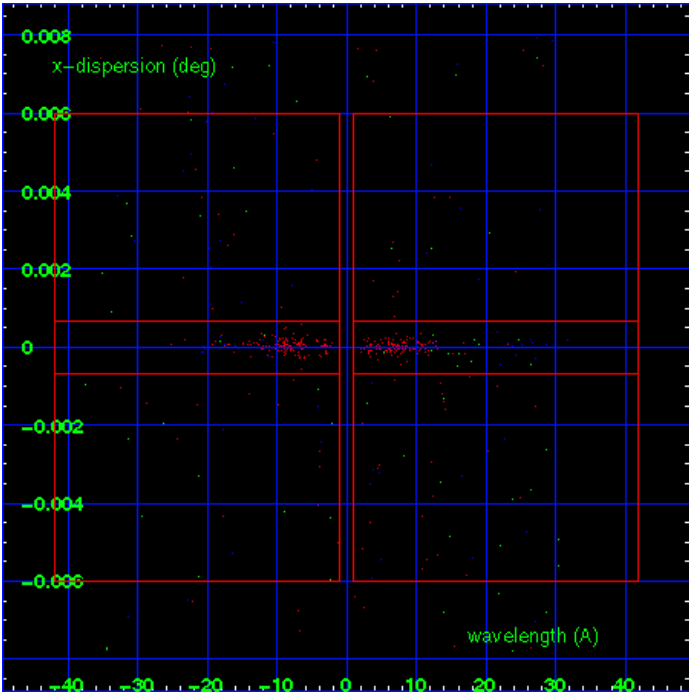
MEG Order Sort 123



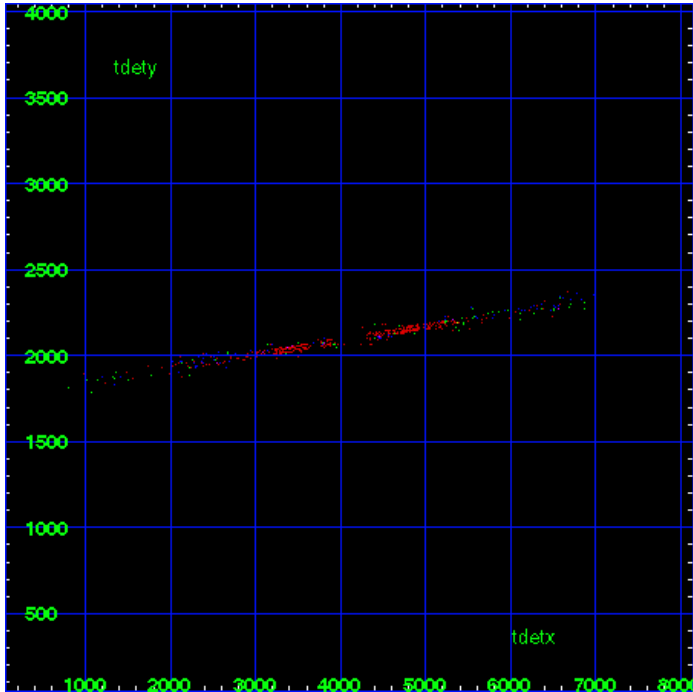
MEG Zero Order



MEG Order Sort ALL

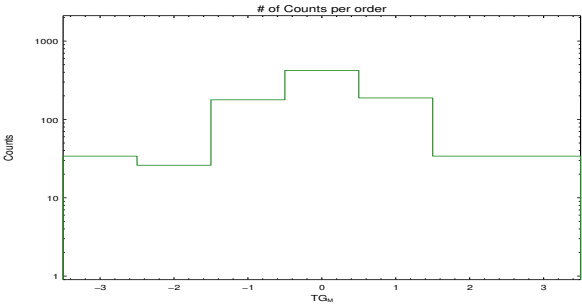


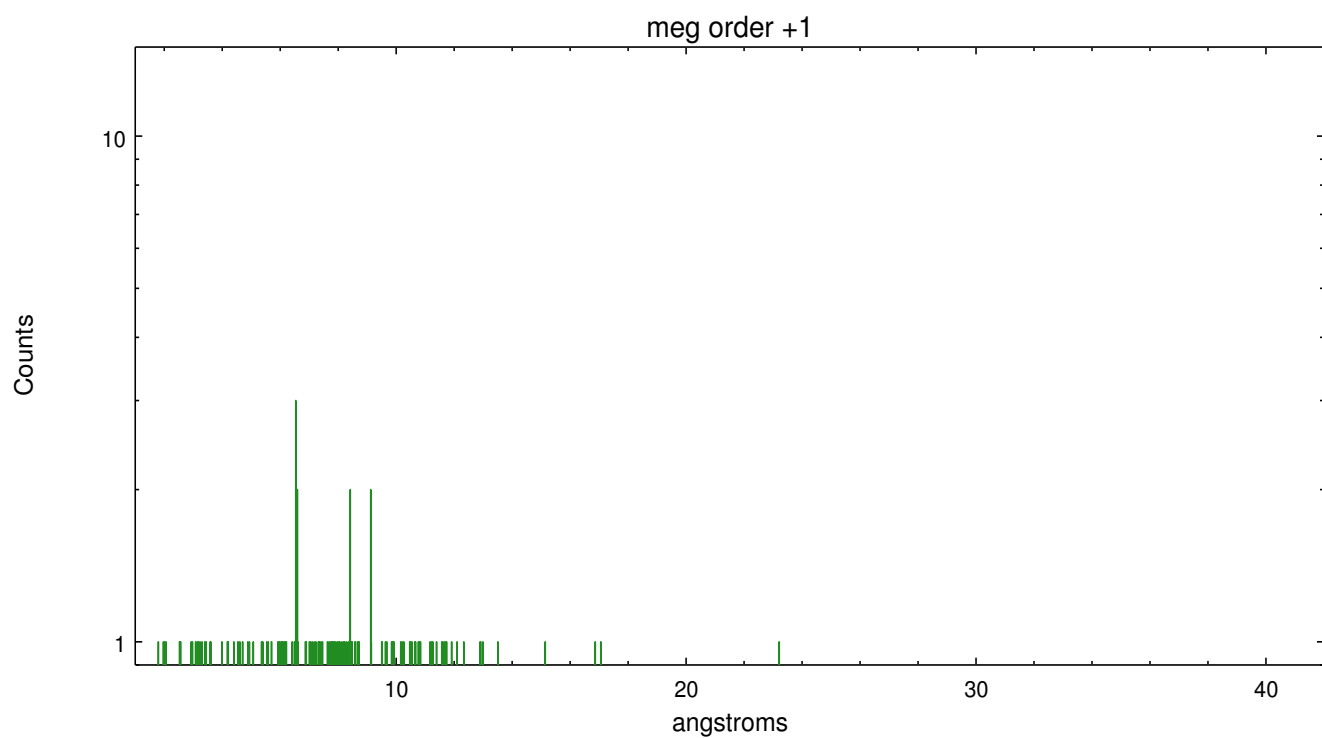
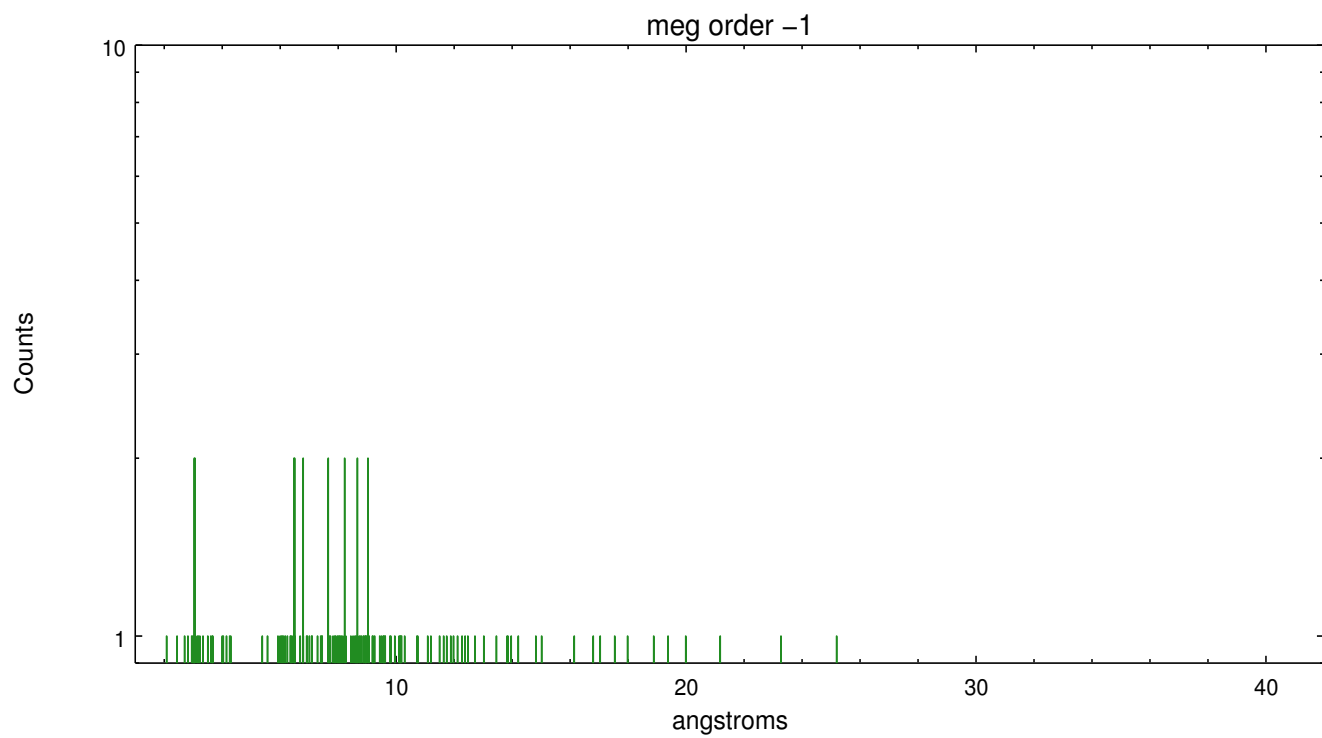
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	34	26	178	422	188	34	34





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1775

A.2 Comments