

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7281 - L2 Version 2
Chandra X-Ray Center

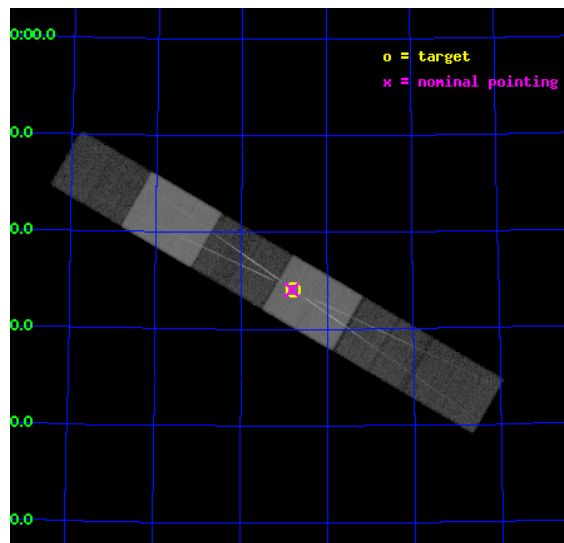
L2 Processing Date : Apr 11 2012

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1 Front

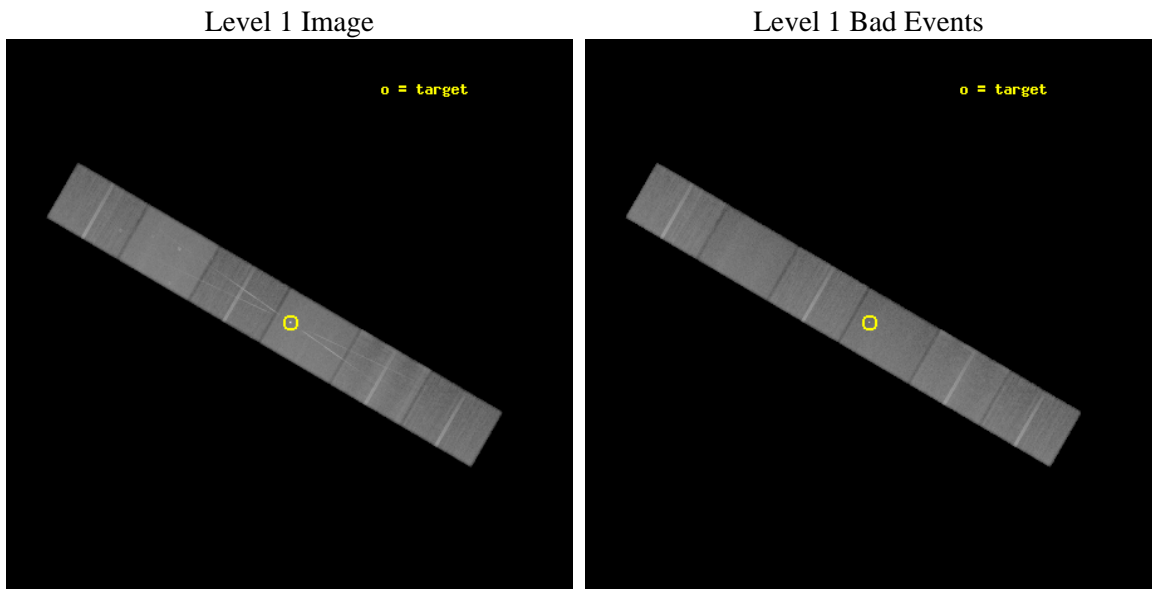
seq_num	701337	Sequence number
obs_id	7281	Observation id
title	NGC 3516: Disk Diagnostics from a Windy BLSy1 in a High-State	Prop
observer	Dr Tracey Turner	Principal investigator
object	NGC 3516	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.698333	Observer's specified target RA [deg]
dec_targ	72.568972	Observer's specified target Dec [deg]
ra_nom	166.70473752526	Nominal RA [deg]
dec_nom	72.568151528566	Nominal Dec [deg]
roll_nom	30.150515109799	Nominal Roll [deg]
revision	2	Processing version of data
ontime	43140.0	Sum of GTIs [s]
livetime	42443.251582029	Livetime [s]
ontime4	43140.0	Sum of GTIs [s]
ontime5	43140.0	Sum of GTIs [s]
ontime6	43140.0	Sum of GTIs [s]
ontime7	43140.0	Sum of GTIs [s]
ontime8	43140.0	Sum of GTIs [s]
ontime9	43140.0	Sum of GTIs [s]
l2events	537003	Number of level 2 events



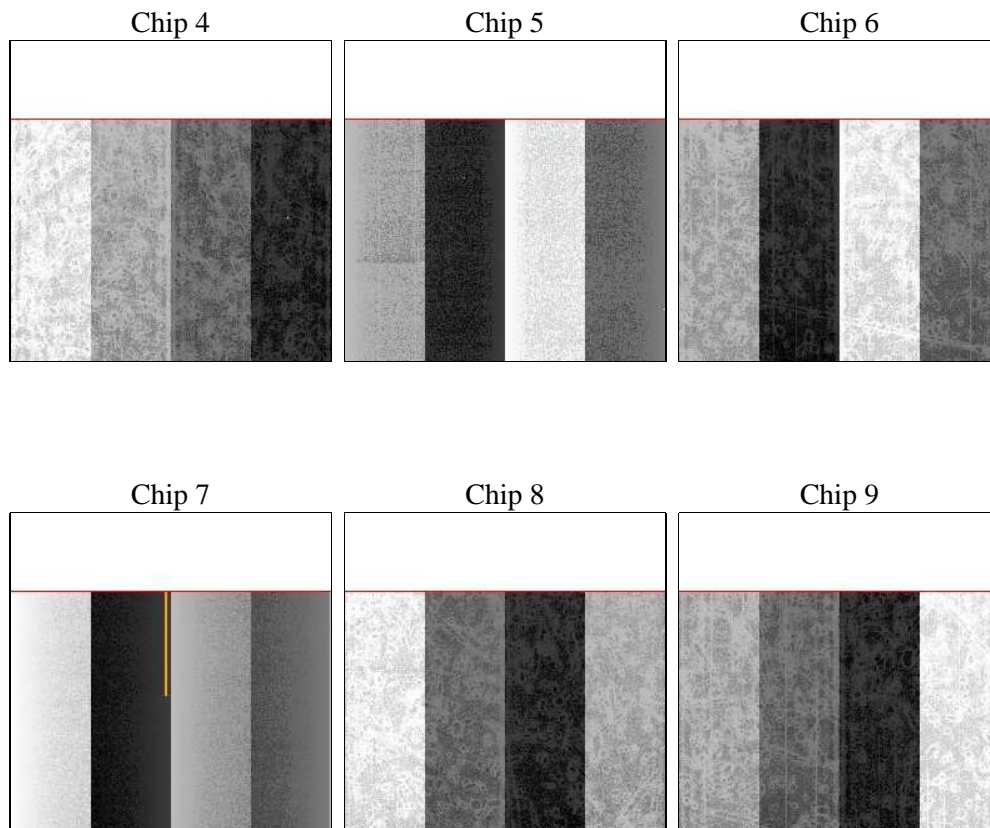
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	43000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	43140.0	Sum of GTIs [s]
caldbver	4.4.9	 	ontime4	43140.0	Sum of GTIs [s]
date	2012-04-11T16:27:48	Date and time of file creation	ontime5	43140.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	43140.0	Sum of GTIs [s]
			ontime7	43140.0	Sum of GTIs [s]
			ontime8	43140.0	Sum of GTIs [s]
			ontime9	43140.0	Sum of GTIs [s]
			l1events	2215447	Number of level 1 events

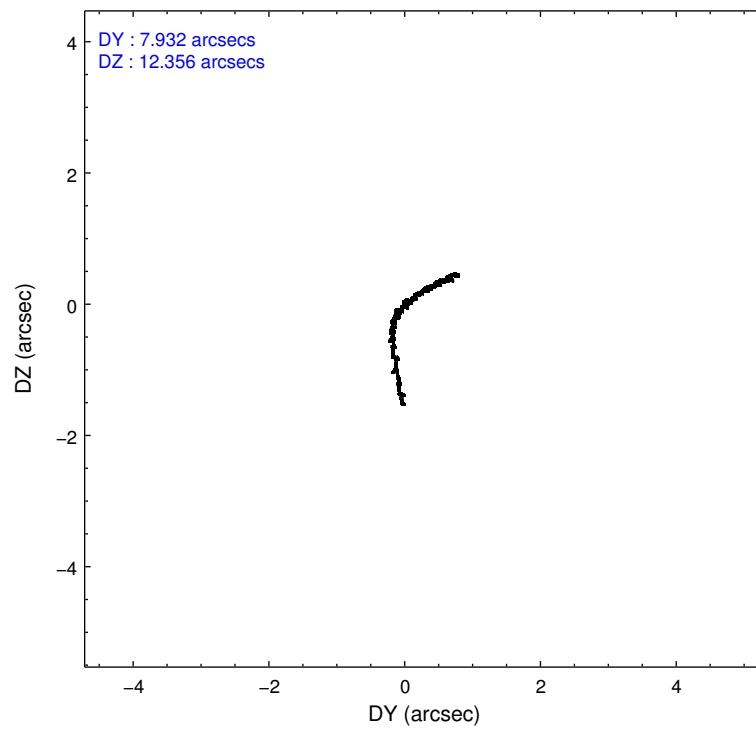
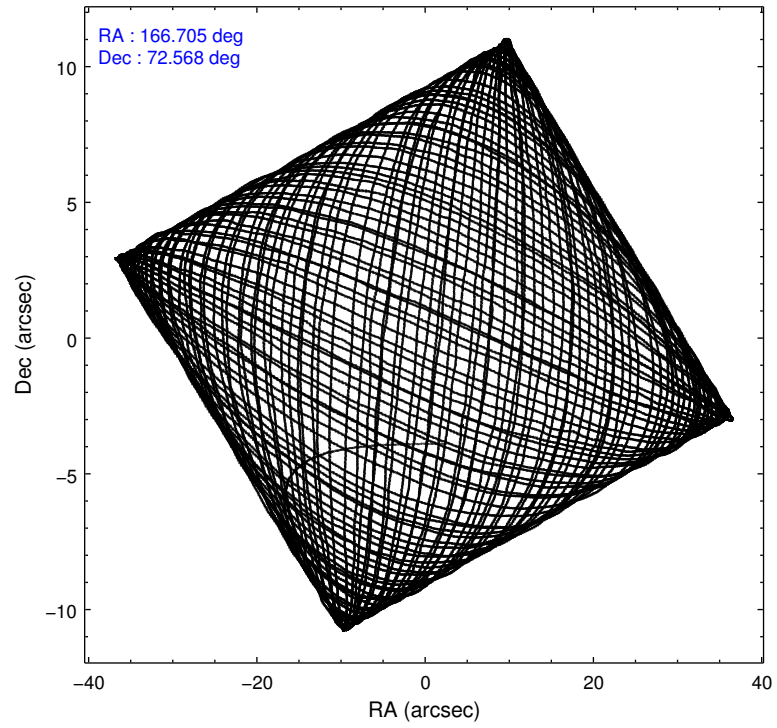
2.1.4 Events

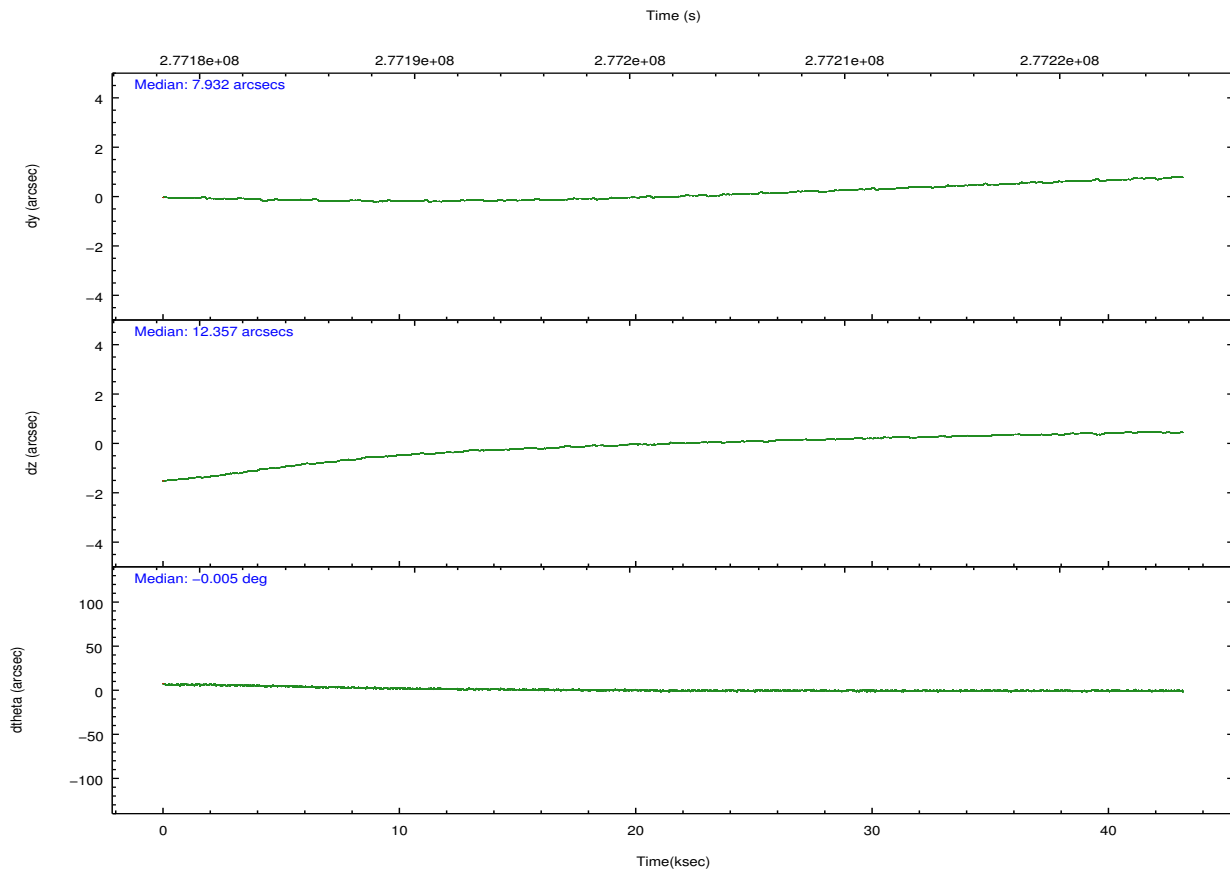
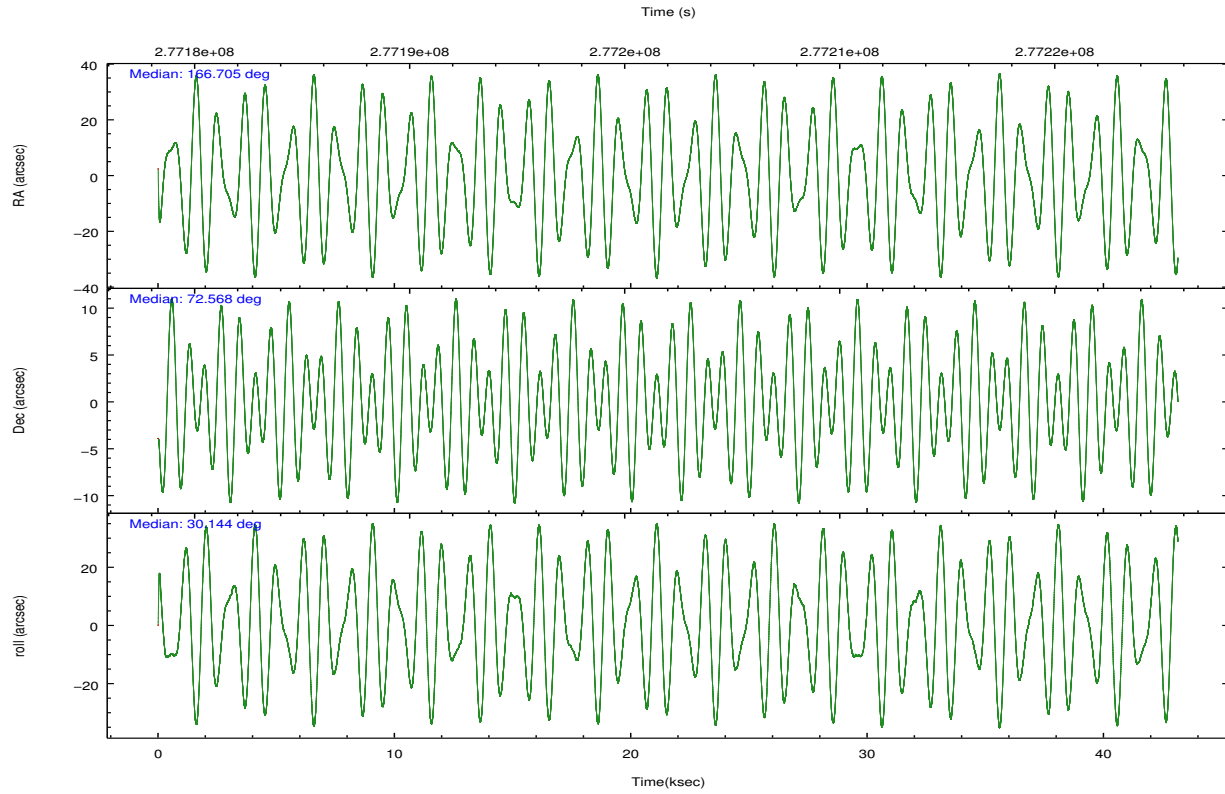
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	337390	445393	314294	433793	385255	299322	grade 0 events	17563	15739	23600	19573	29630	15672
rejected events	297760	241485	265277	239102	295969	261322		5%	3%	7%	4%	7%	5%
rejected %	88%	54%	84%	55%	76%	87%	grade 1 events	243	558	162	648	269	140
								0%	0%	0%	0%	0%	0%
							grade 2 events	8254	61569	9224	40102	19606	7548
								2%	13%	2%	9%	5%	2%
							grade 3 events	4089	9446	4242	17763	9185	3975
								1%	2%	1%	4%	2%	1%
							grade 4 events	3804	8837	4153	17409	8614	3768
								1%	1%	1%	4%	2%	1%
							grade 5 events	13000	33959	13534	39398	18450	14642
								3%	7%	4%	9%	4%	4%
							grade 6 events	5992	108688	7865	100137	22379	7101
								1%	24%	2%	23%	5%	2%
							grade 7 events	284445	206597	251514	198763	277122	246476
								84%	46%	80%	45%	71%	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	166.660615	166.7047375252613	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	72.544351	72.56815152856602	Subarray start row	1	1
[deg] Pointing Roll	30.035981	30.15051510979866	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	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	277180599.184000	277179559.43298			
Observation start date	2006-10-14T02:35:34	2006-10-14T02:19:19			
[s] Observation end time (MET)	277223599.184000	277224182.81008			
Observation end date	2006-10-14T14:32:14	2006-10-14T14:43:02			
Read mode	TIMED	TIMED			

2.3 Aspect



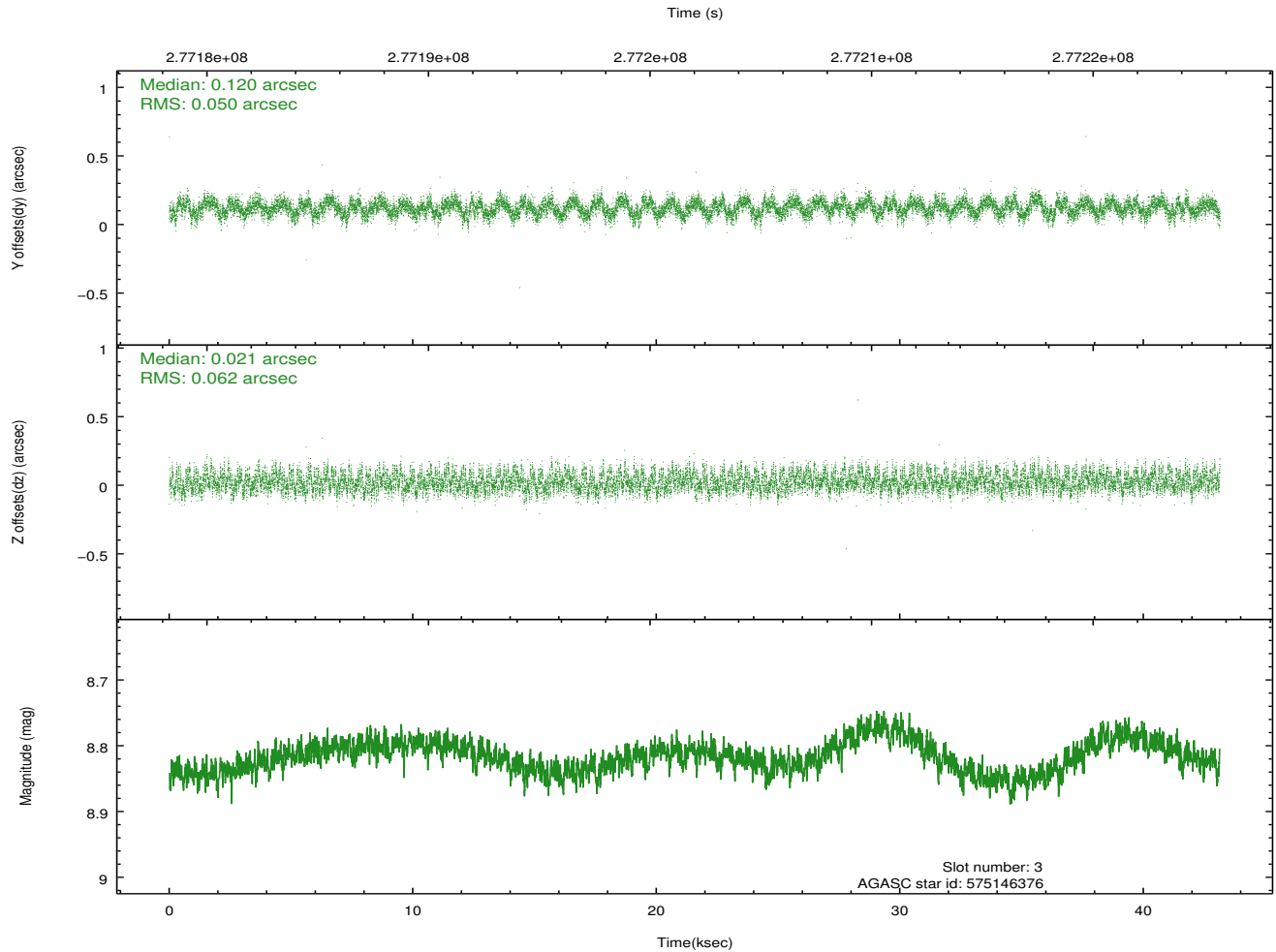
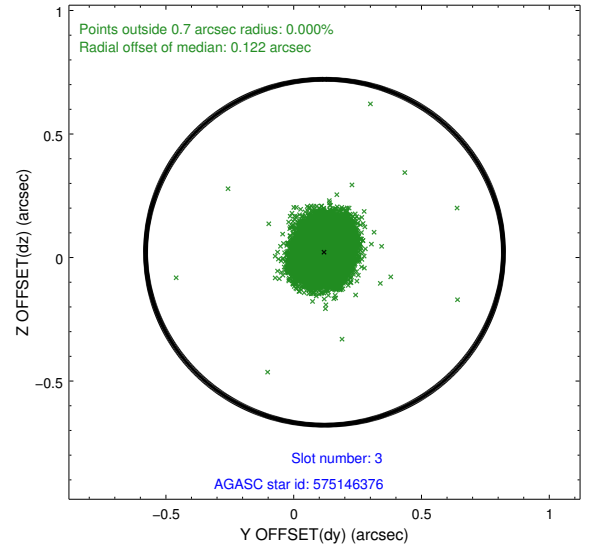
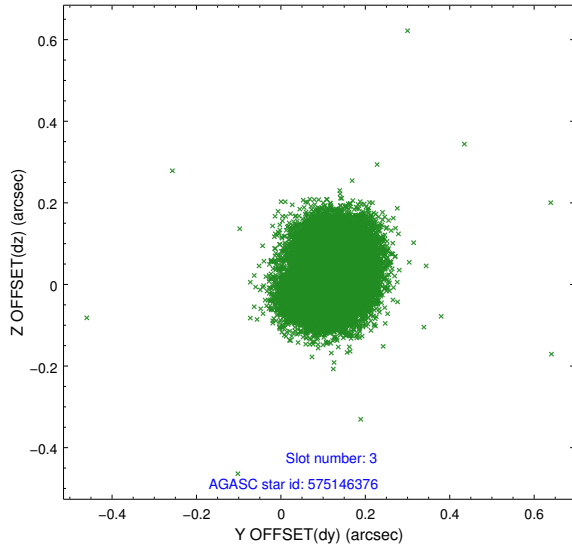


Slot Statistics

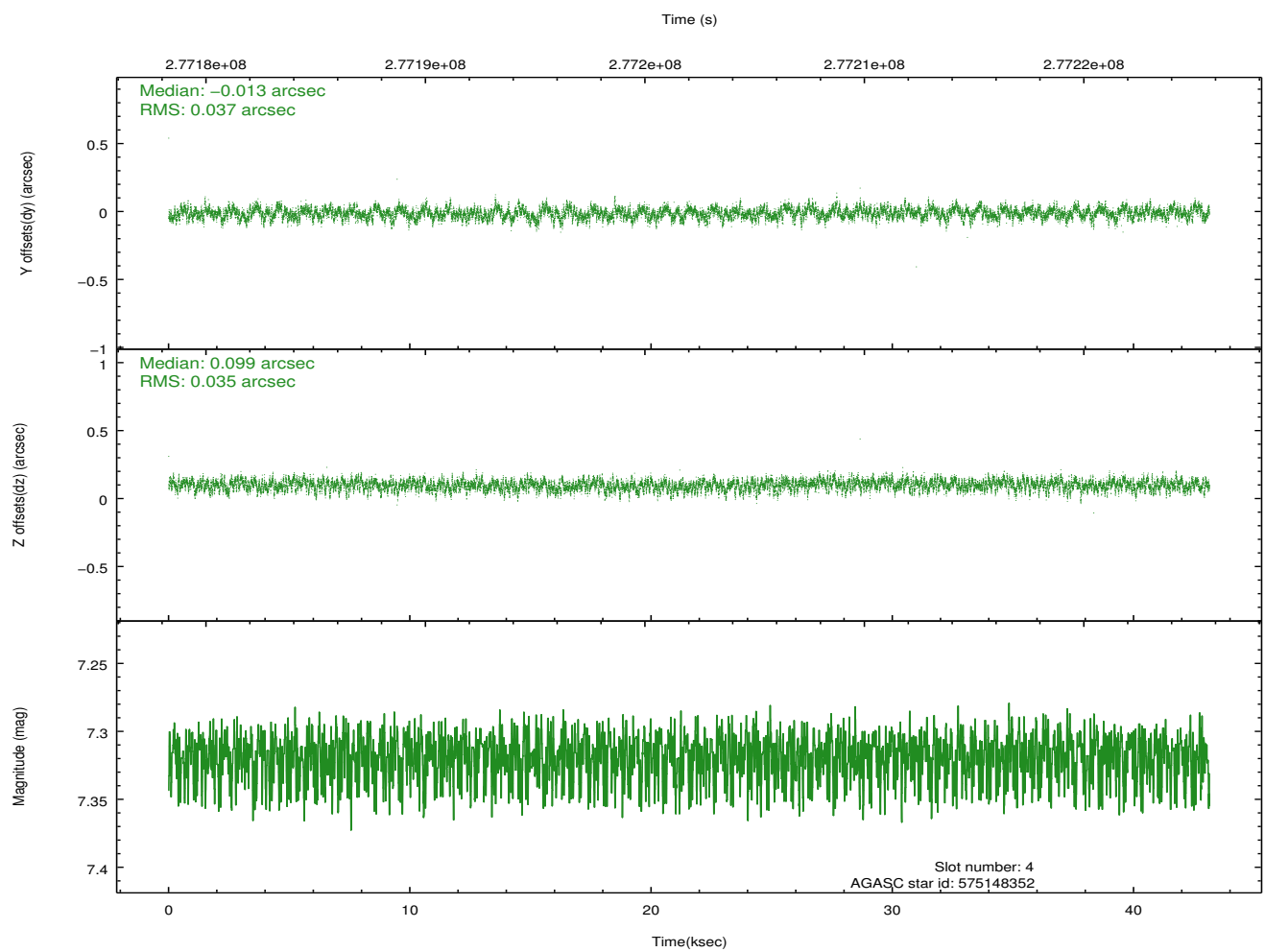
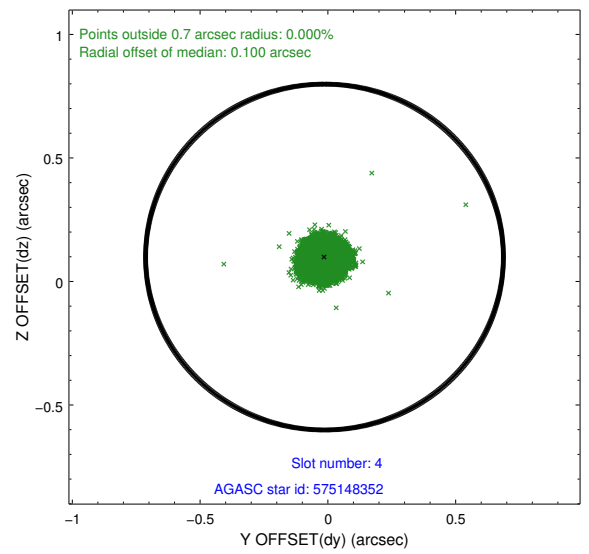
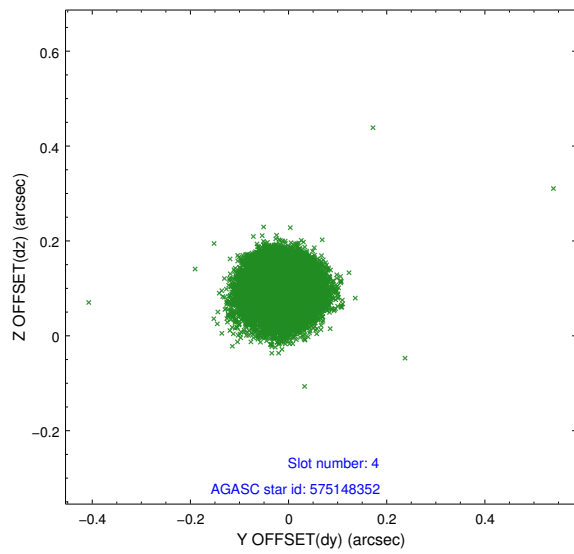
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.19	10524	0.114	0.015	0.010	0.015	0.000000	0.000000	2152.82	113.05
1	FID	ACIS-S-5	7.24	10522	-0.155	0.007	0.012	0.023	0.000000	0.000000	-1813.64	106.48
2	FID	ACIS-S-6	7.37	10524	0.014	-0.008	0.014	0.024	0.000000	0.000000	400.97	750.22
3	GUIDE	575146376	8.82	21038	0.120	0.021	0.086	0.134	166.888472	72.124920	-536.93	-1432.53
4	GUIDE	575148352	7.32	21044	-0.013	0.099	0.055	0.086	167.090916	71.958979	-638.28	-2062.77
5	GUIDE	575150616	8.22	21040	0.017	0.117	0.064	0.105	167.218511	72.045663	-360.59	-1861.18
6	GUIDE	575541080	8.94	21033	-0.378	0.024	0.084	0.139	167.870403	73.115273	2130.07	1157.75
7	GUIDE	575541344	9.38	21025	0.260	-0.261	0.084	0.138	166.947366	72.953762	1000.70	1125.33

2.4 Star Slots

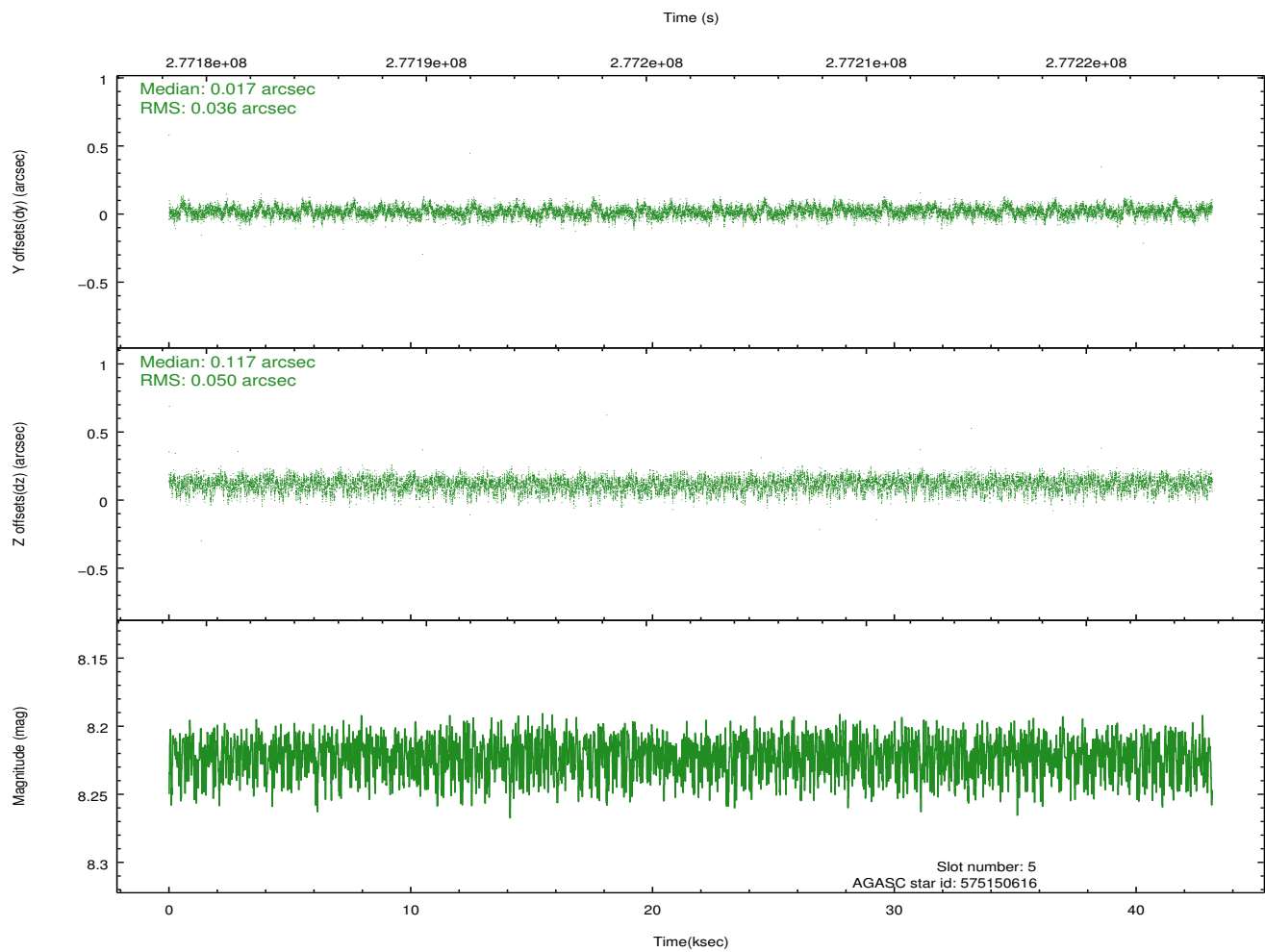
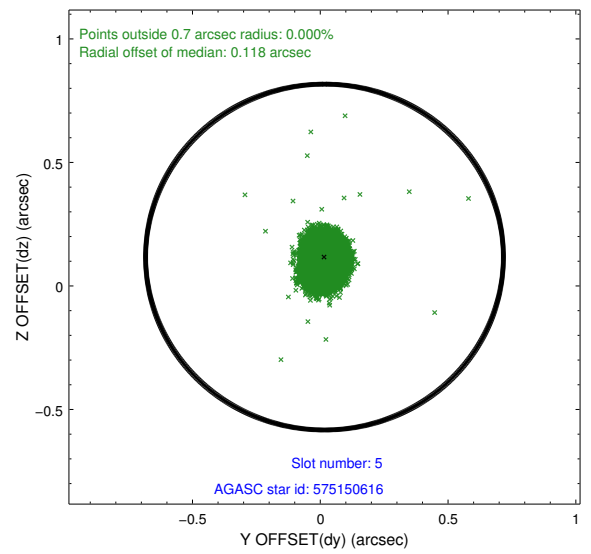
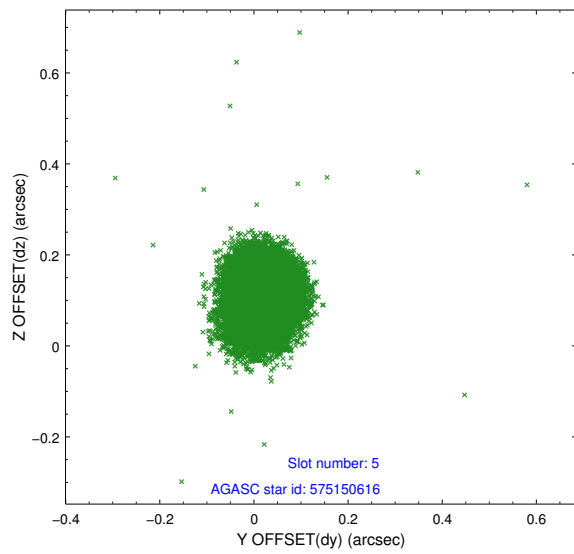
2.4.1 Slot 3



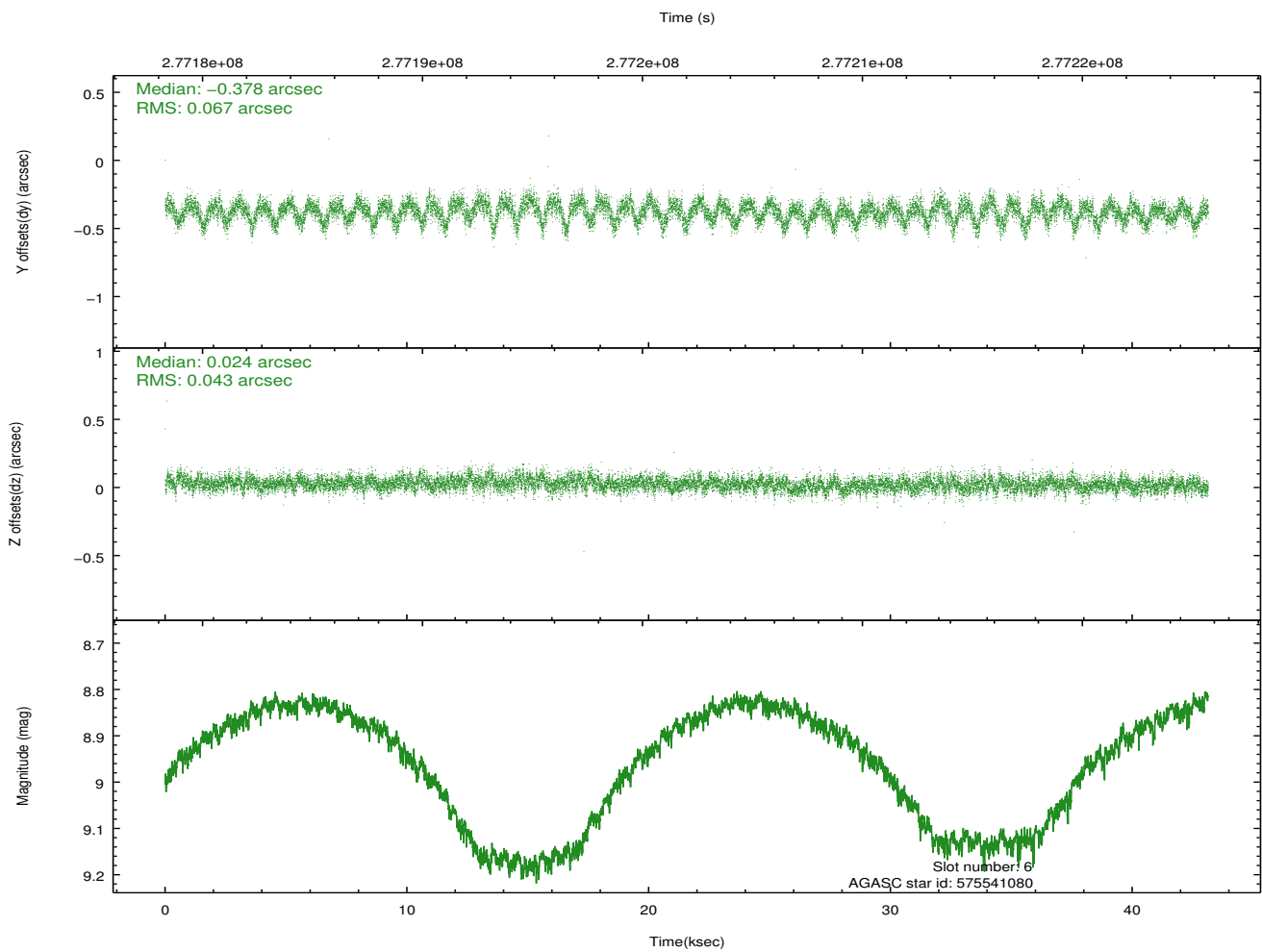
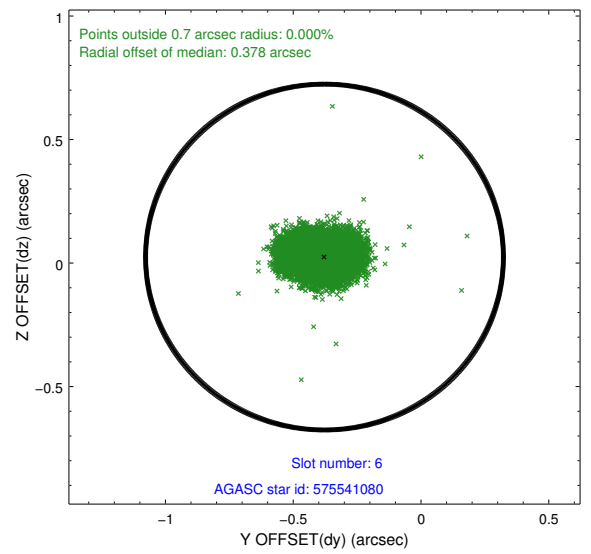
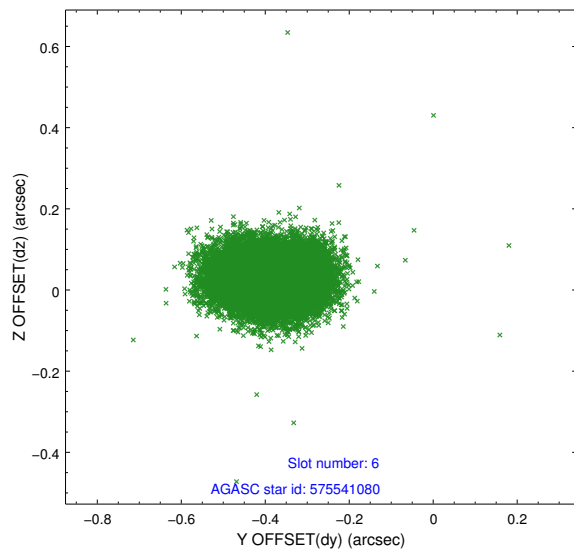
2.4.2 Slot 4



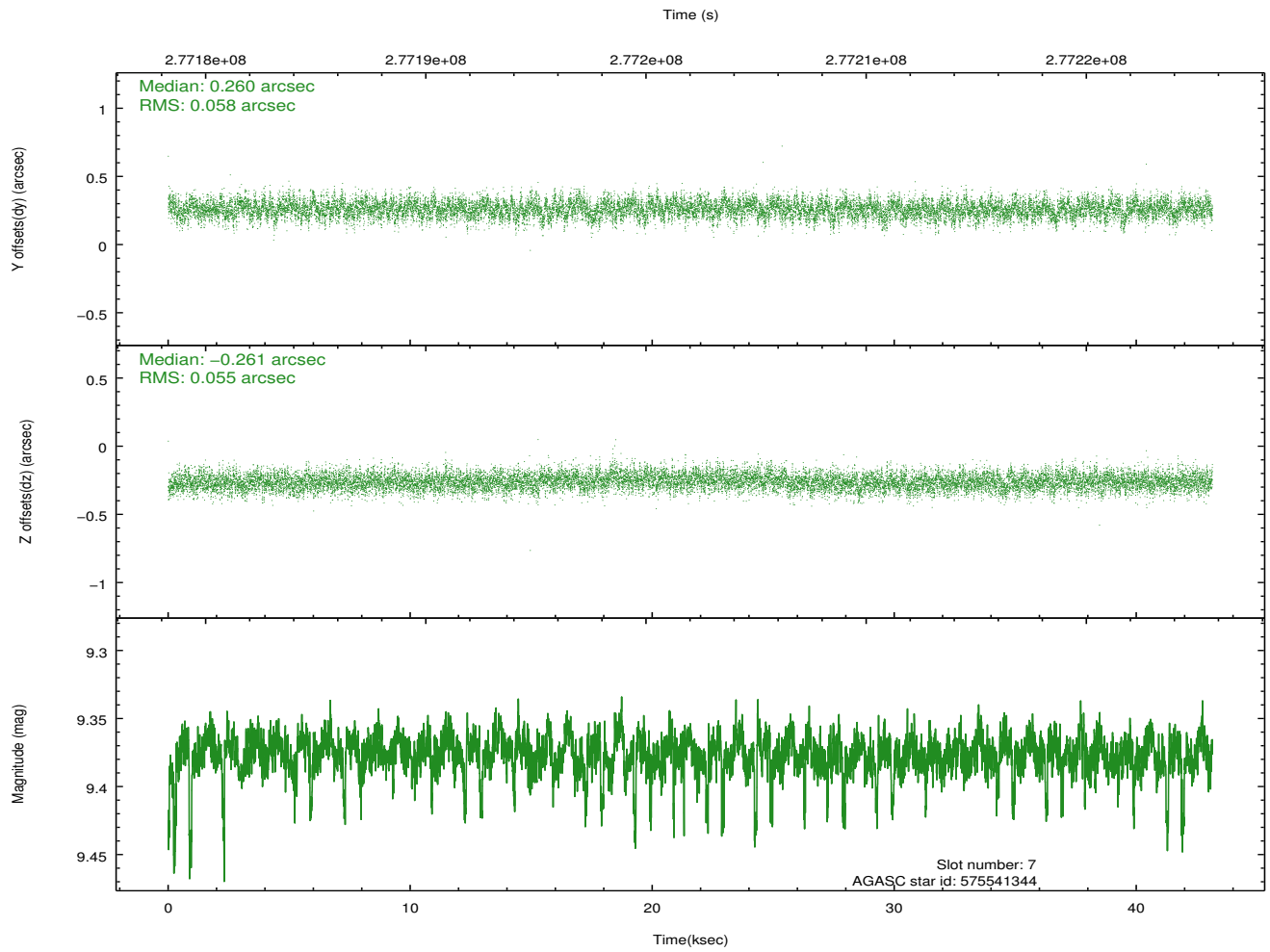
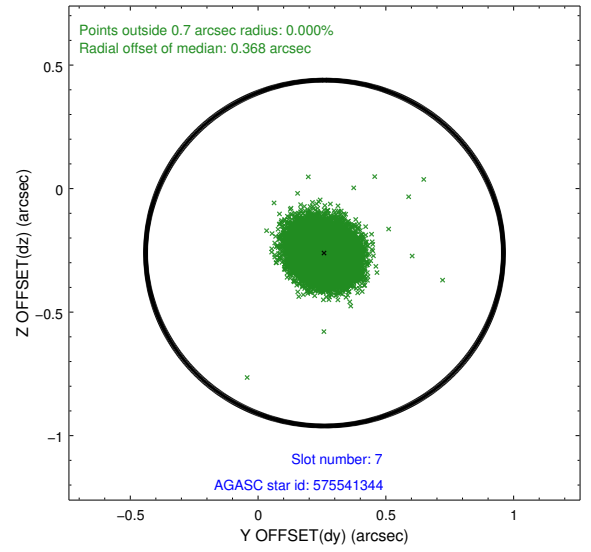
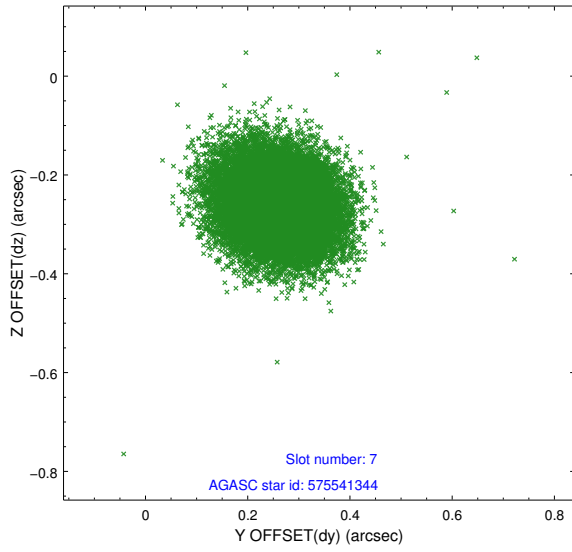
2.4.3 Slot 5



2.4.4 Slot 6

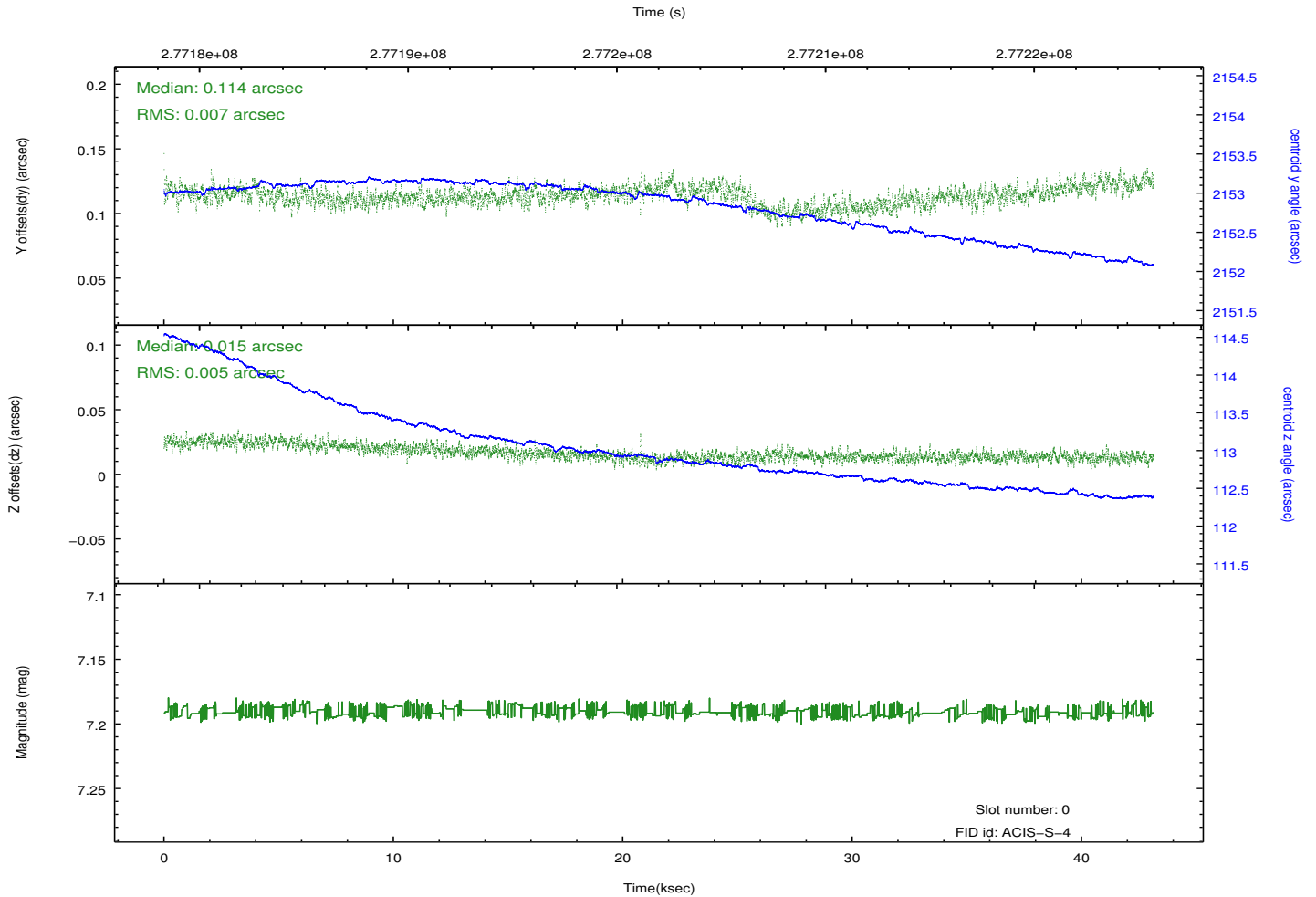
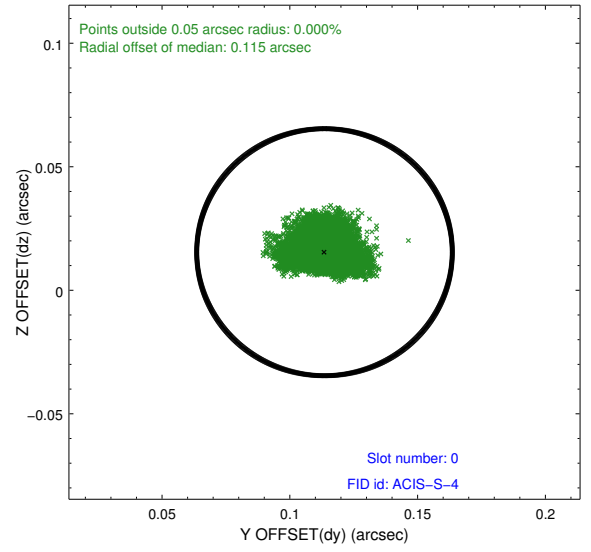
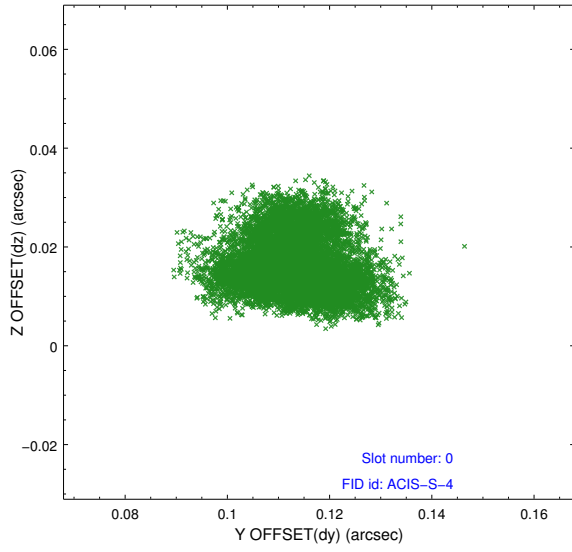


2.4.5 Slot 7

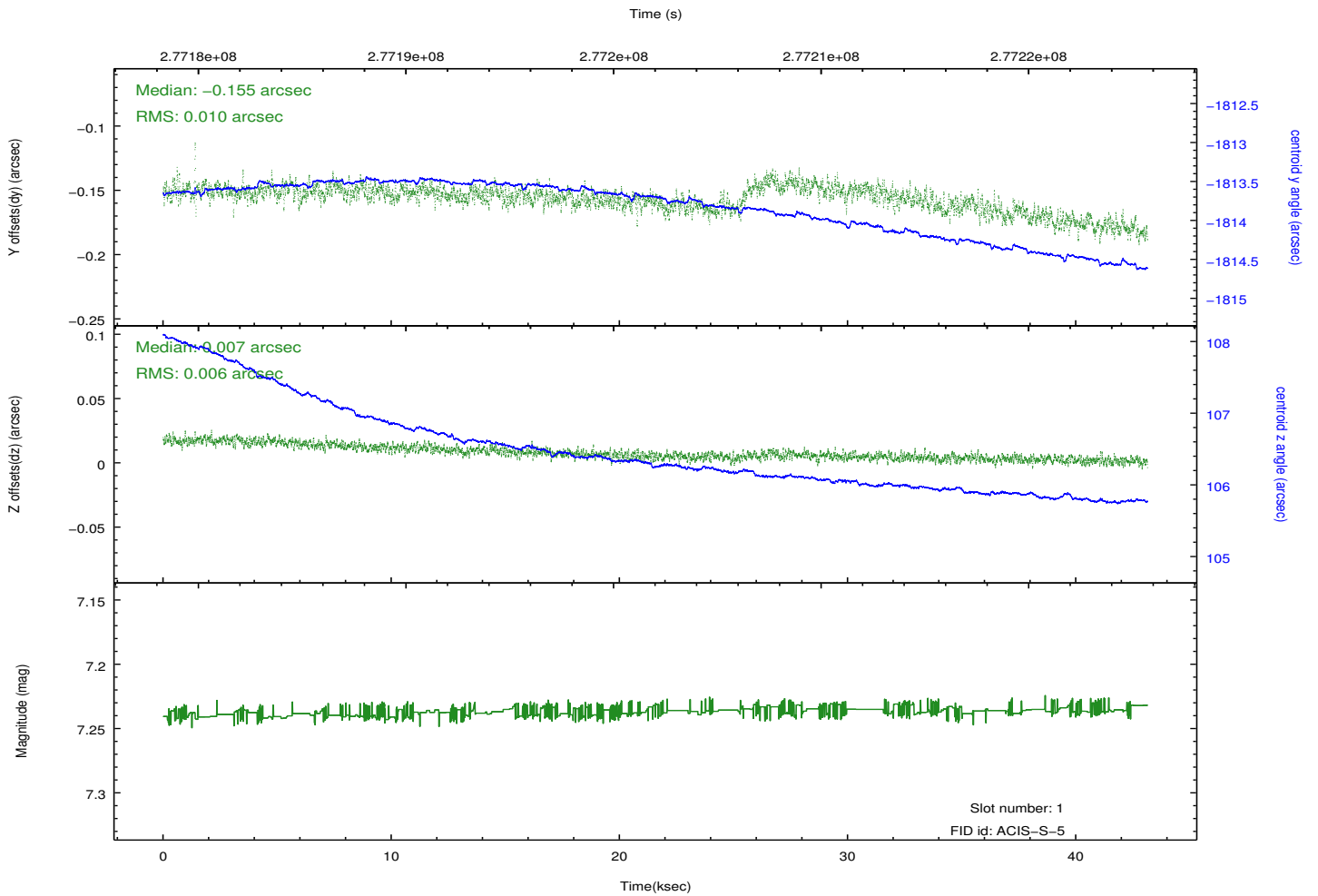
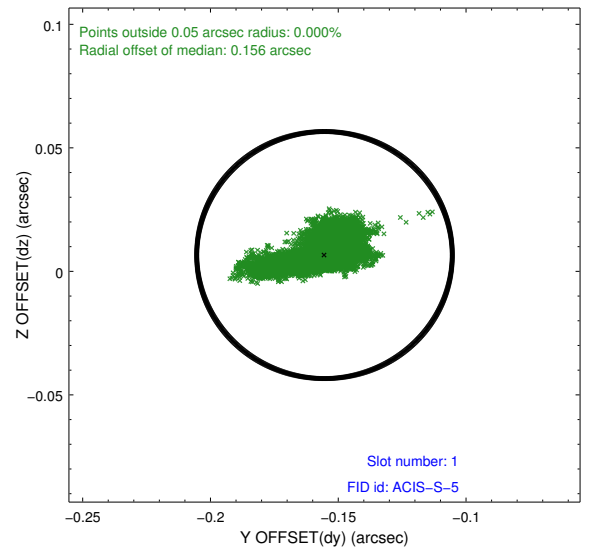
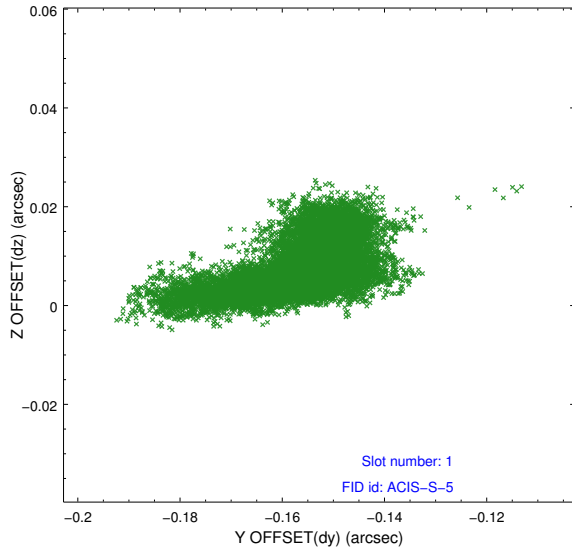


2.5 FID Slots

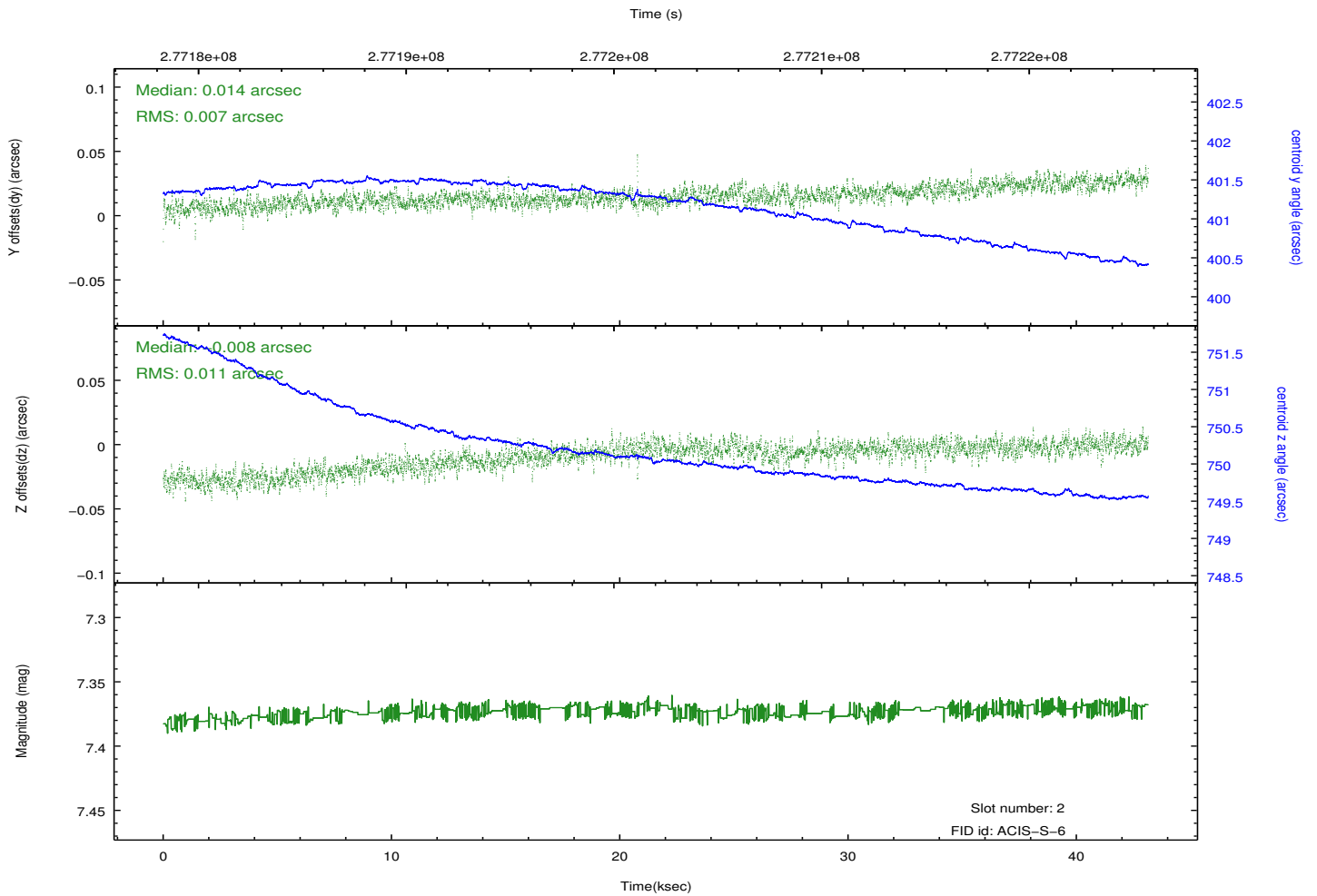
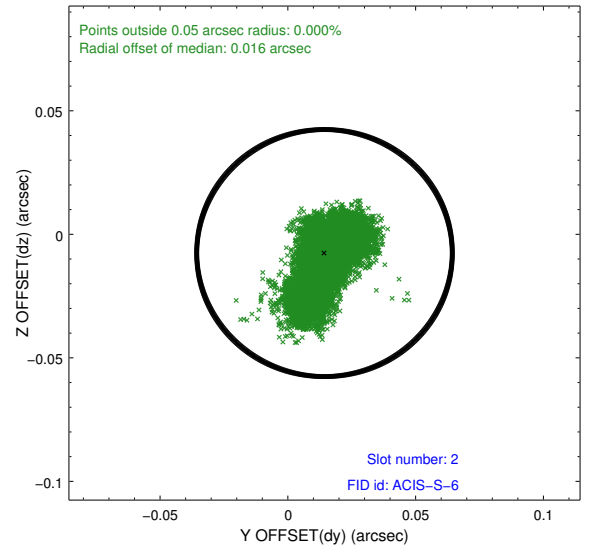
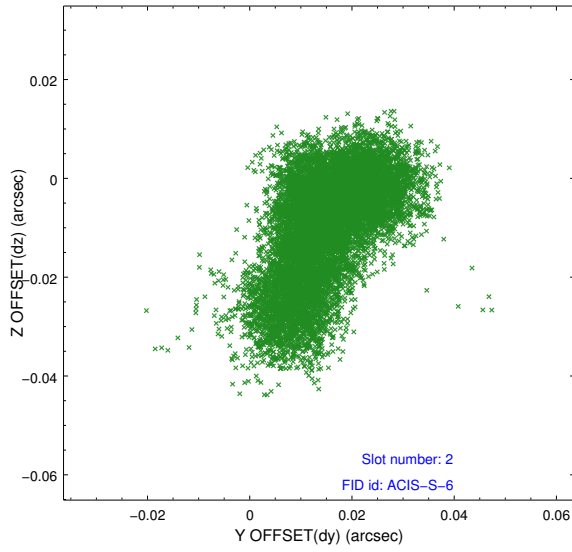
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

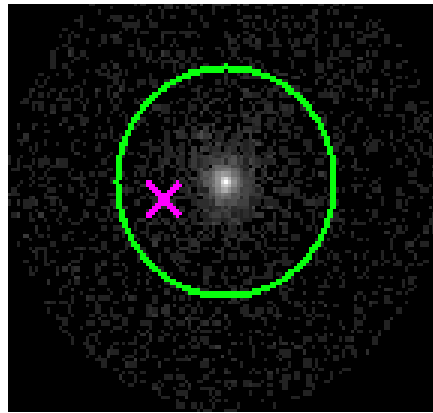


3 Gratings

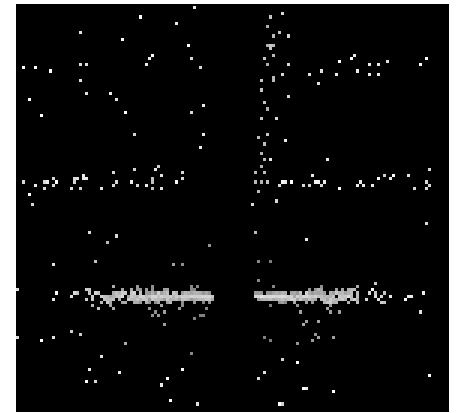
3.1 HEG Arm



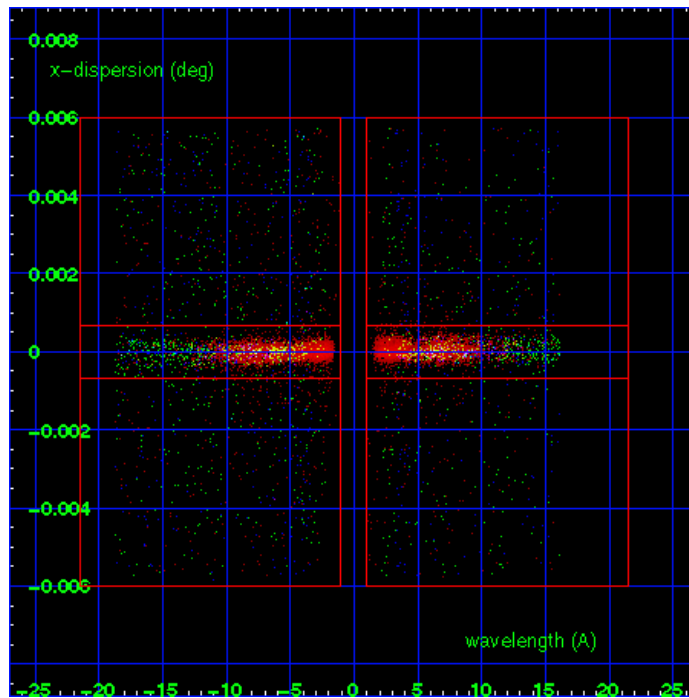
HEG Order Sort 123



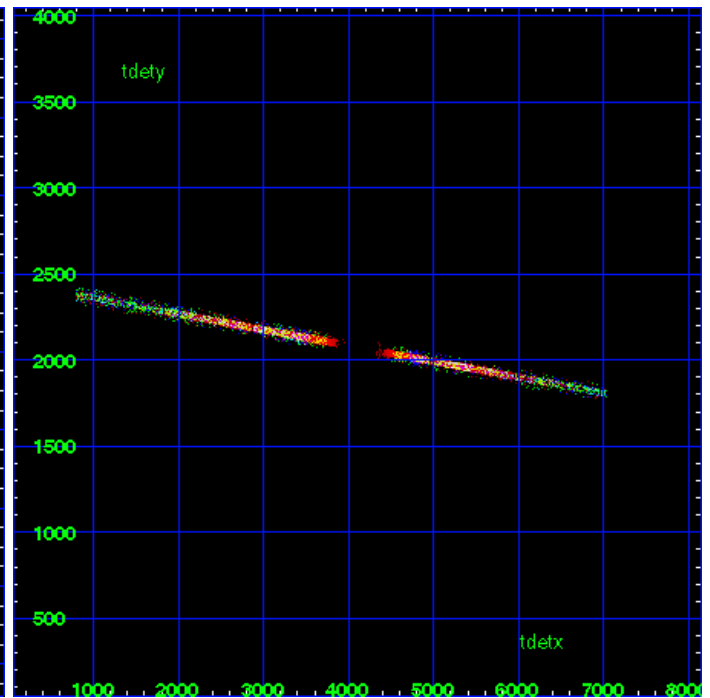
HEG Zero Order



HEG Order Sort ALL

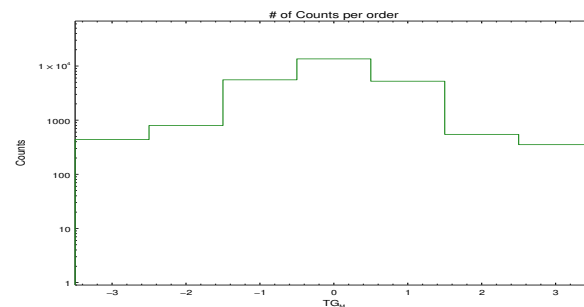


Spot Image HEG

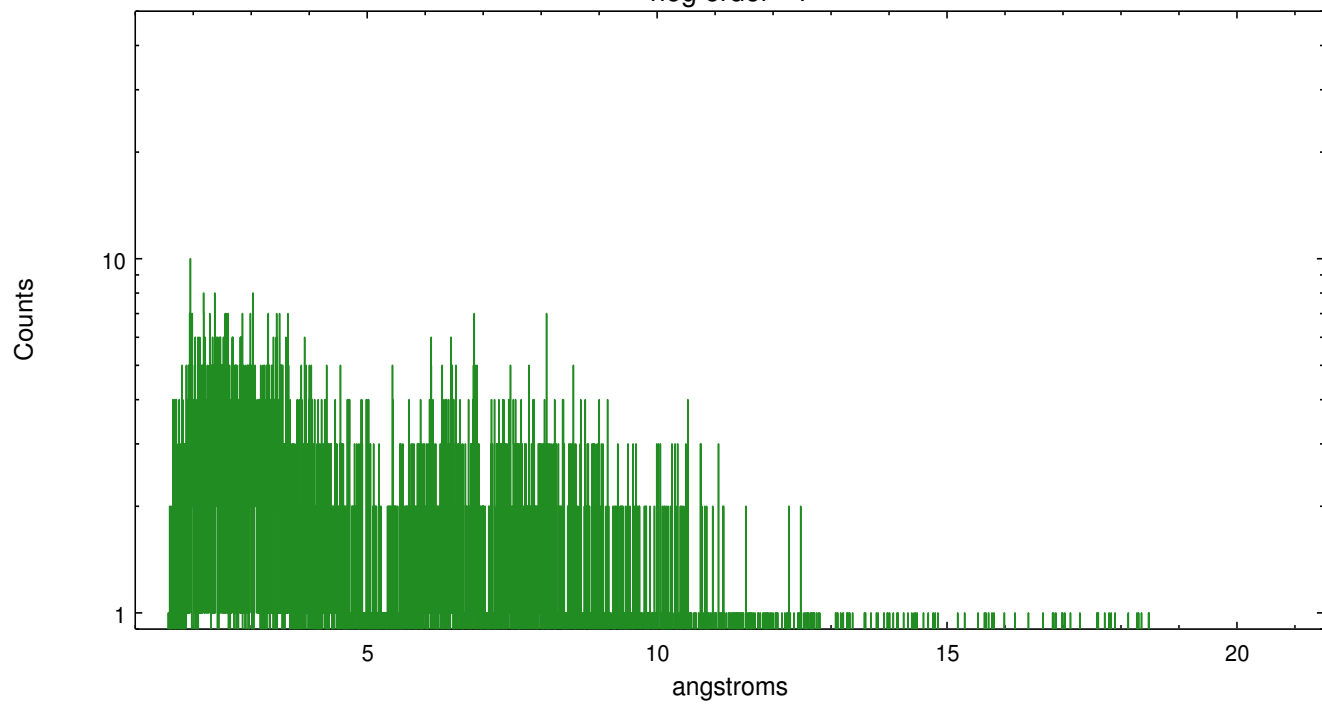


Full Detector HEG

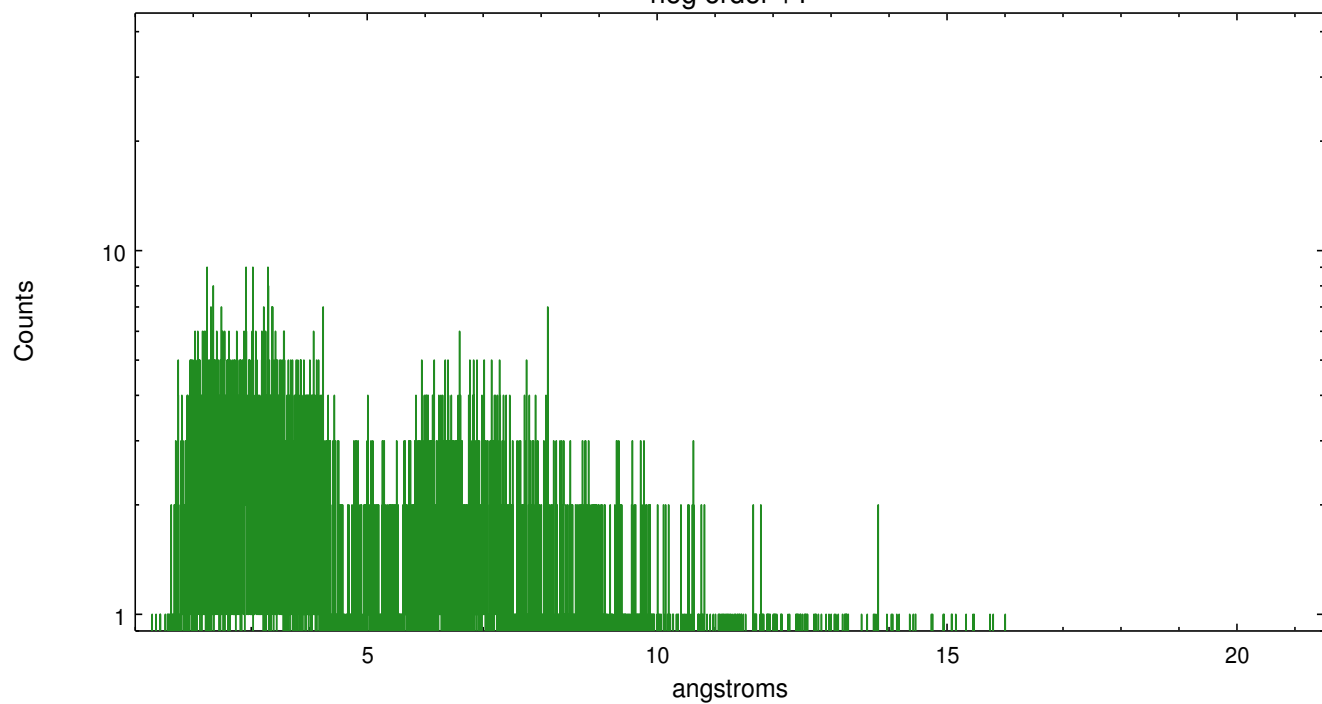
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	438	796	5563	13551	5240	546	353



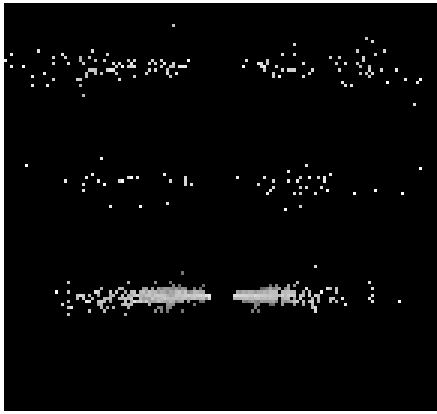
heg order -1



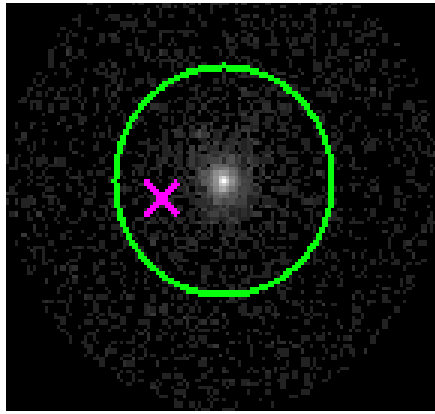
heg order +1



3.2 MEG Arm



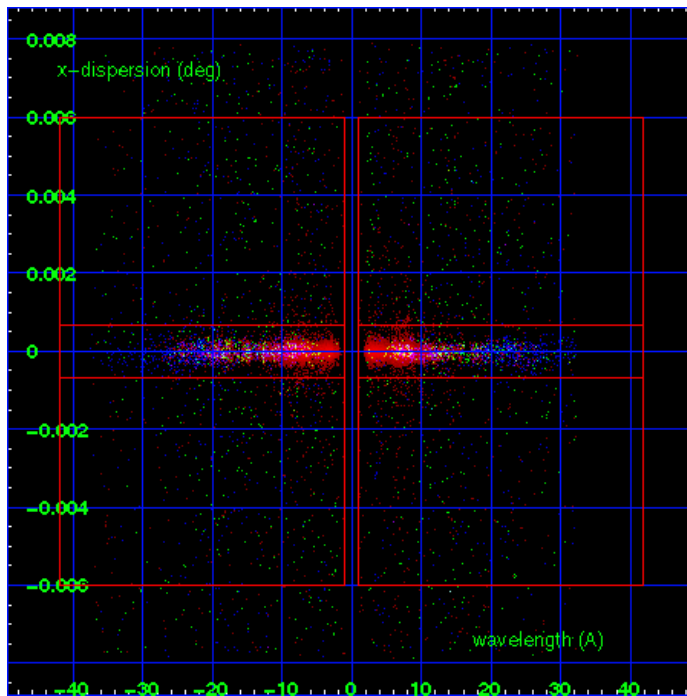
MEG Order Sort 123



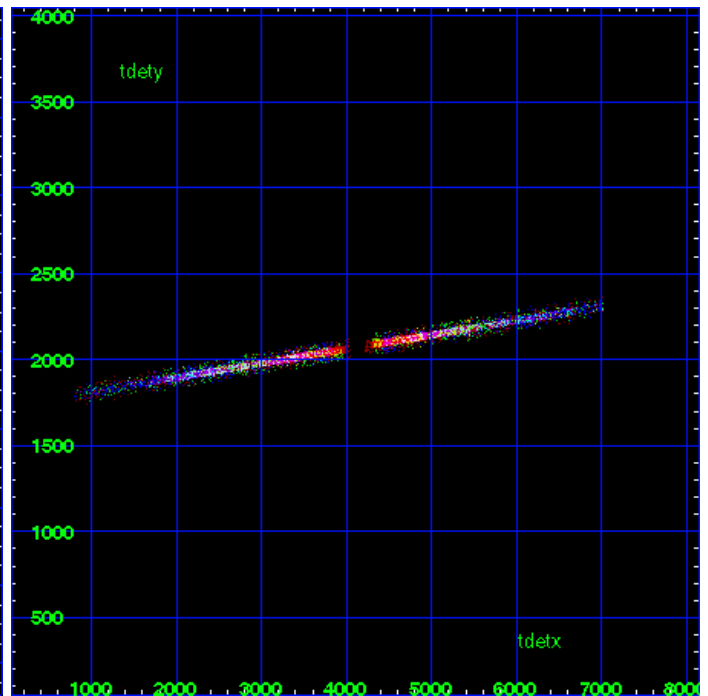
MEG Zero Order



MEG Order Sort ALL

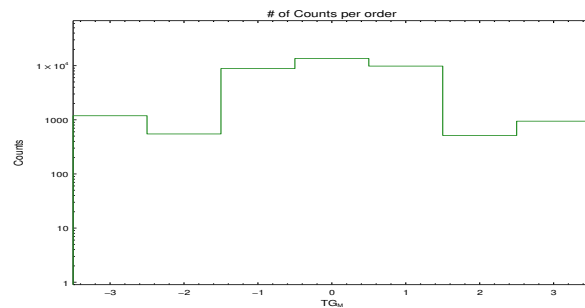


Spot Image MEG

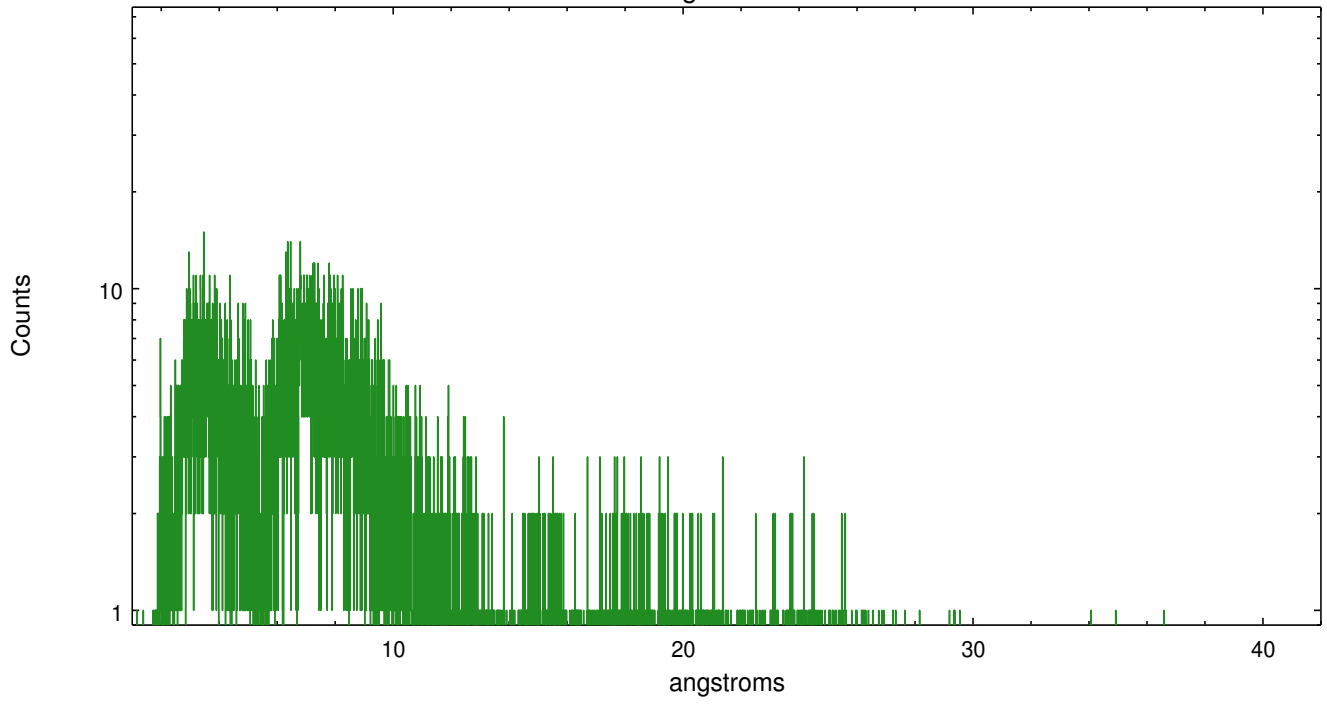


Full Detector MEG

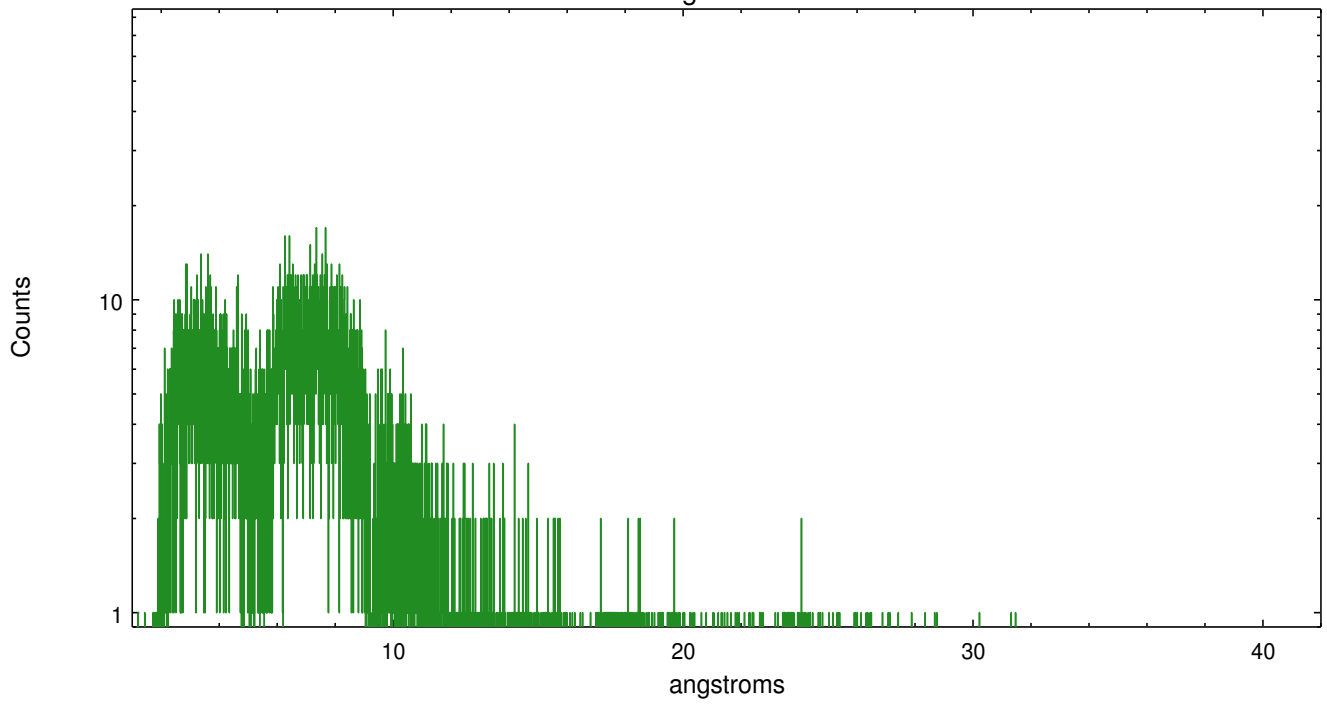
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1189	548	8829	13551	9816	514	943



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.14

A.2 Comments