

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2757 - L2 Version 3
Chandra X-Ray Center

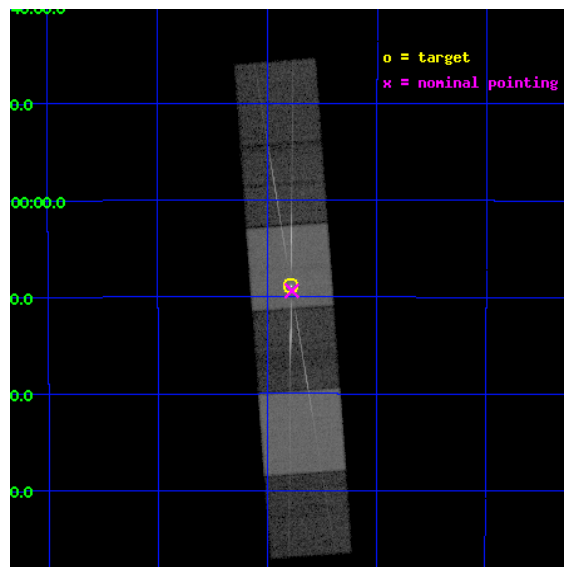
L2 Processing Date : Oct 13 2012

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1 Front

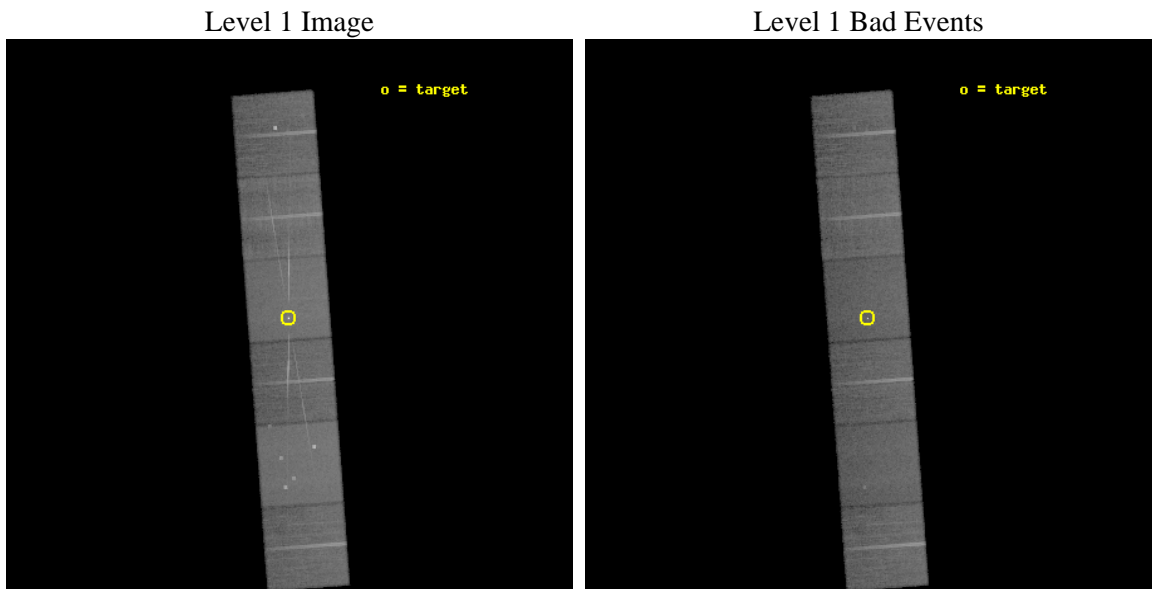
seq_num	500207	Sequence number
obs_id	2757	Observation id
title	QUIESCENT RADIATION FROM MAGNETARS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RXJ J1708-4009	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.196667	Observer's specified target RA [deg]
dec_targ	-40.1475	Observer's specified target Dec [deg]
ra_nom	257.19354640565	Nominal RA [deg]
dec_nom	-40.156373799685	Nominal Dec [deg]
roll_nom	265.7273885136	Nominal Roll [deg]
revision	3	Processing version of data
ontime	32057.30254513	Sum of GTIs [s]
livetime	31651.373677714	Livetime [s]
ontime4	32057.343585134	Sum of GTIs [s]
ontime5	32057.261505127	Sum of GTIs [s]
ontime6	32057.220465124	Sum of GTIs [s]
ontime7	32057.30254513	Sum of GTIs [s]
ontime8	32053.938434958	Sum of GTIs [s]
ontime9	32057.138385147	Sum of GTIs [s]
l2events	356356	Number of level 2 events



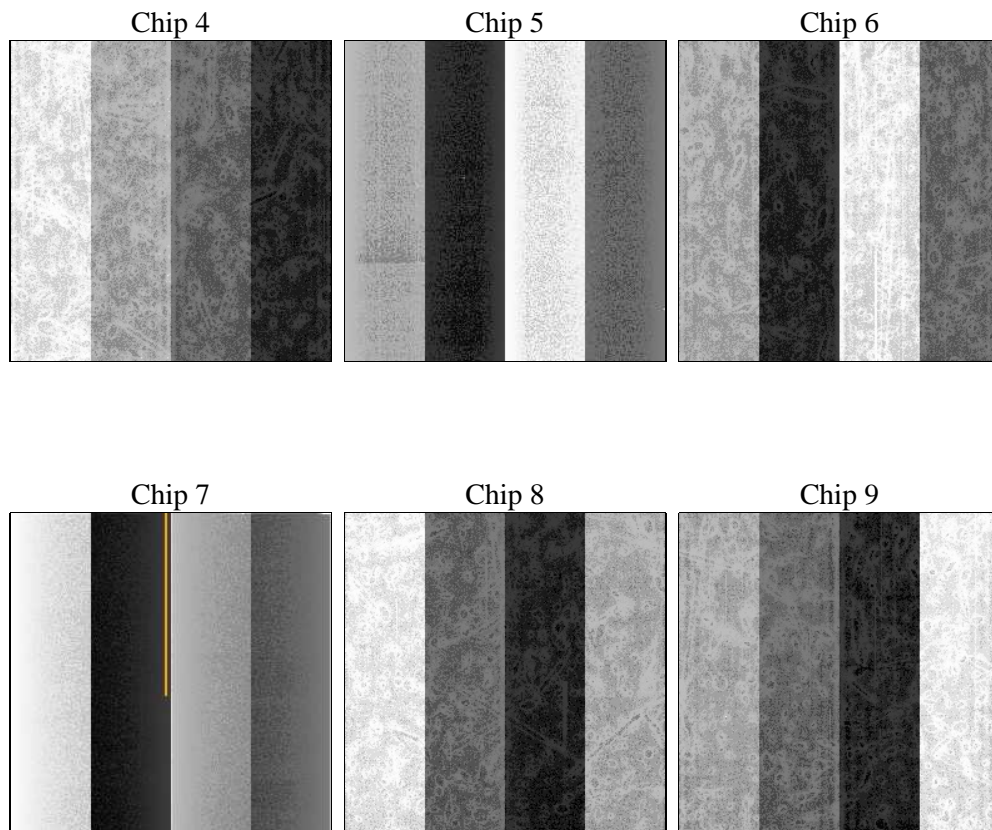
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	32100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	32057.30254513	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	32057.343585134	Sum of GTIs [s]
date	2012-10-13T06:09:44	Date and time of file creation	ontime5	32057.261505127	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	32057.220465124	Sum of GTIs [s]
			ontime7	32057.30254513	Sum of GTIs [s]
			ontime8	32053.938434958	Sum of GTIs [s]
			ontime9	32057.138385147	Sum of GTIs [s]
			l1events	1462627	Number of level 1 events

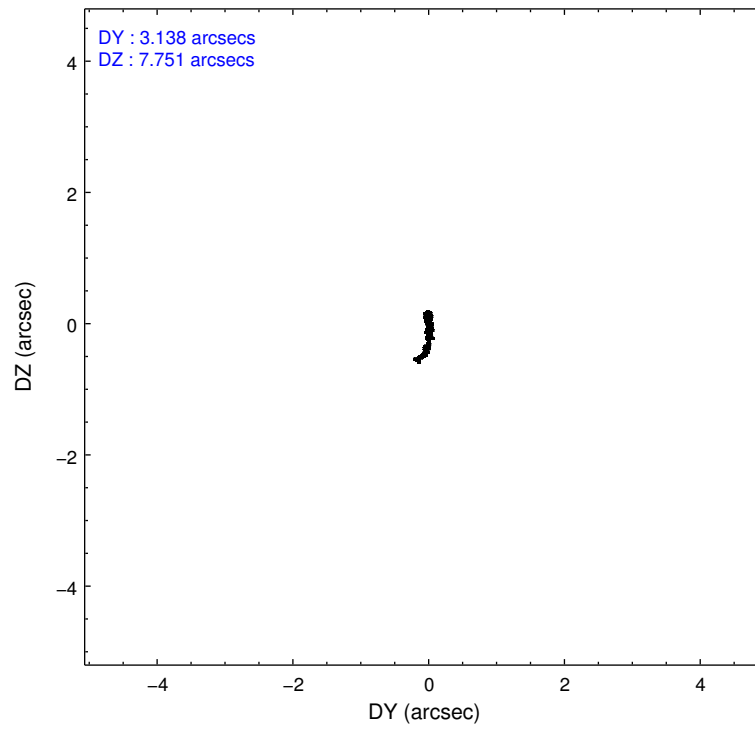
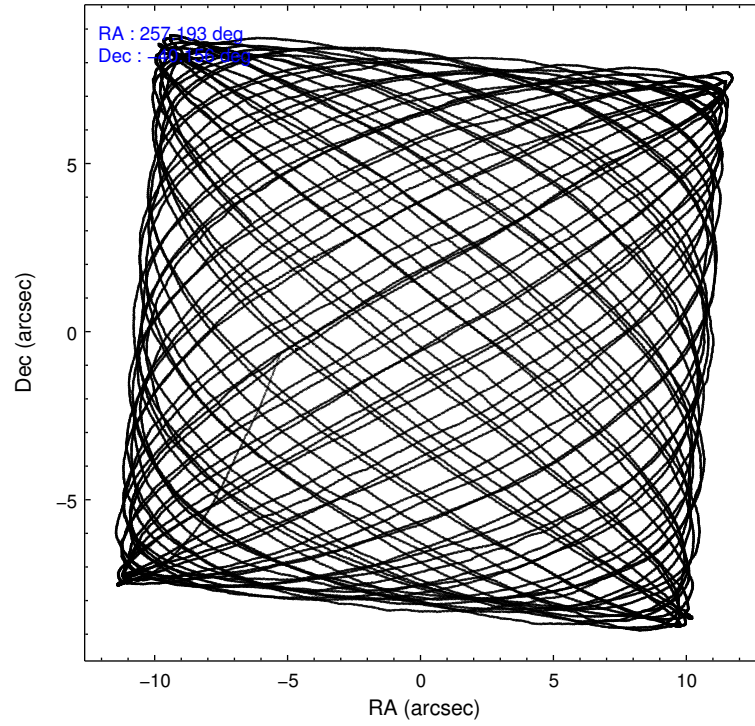
2.1.4 Events

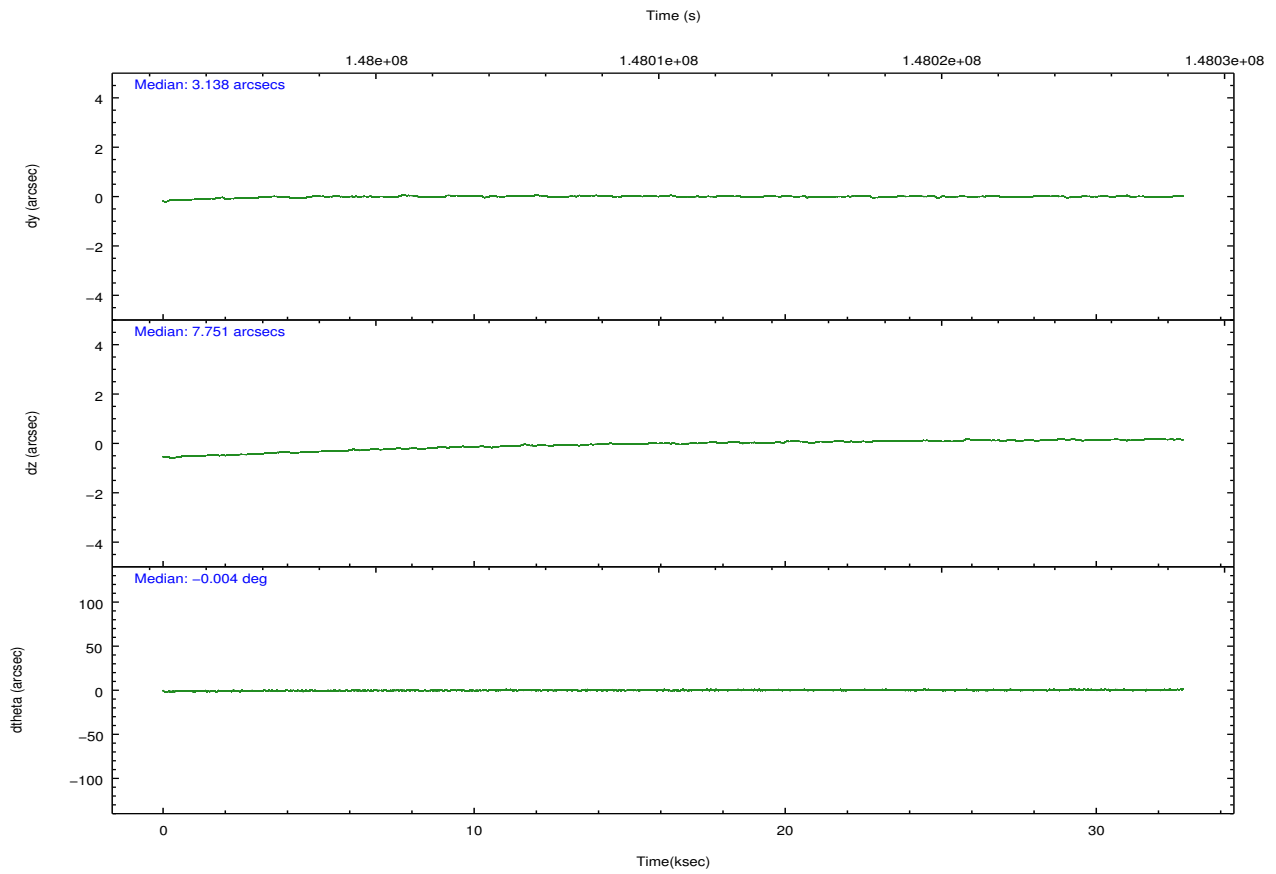
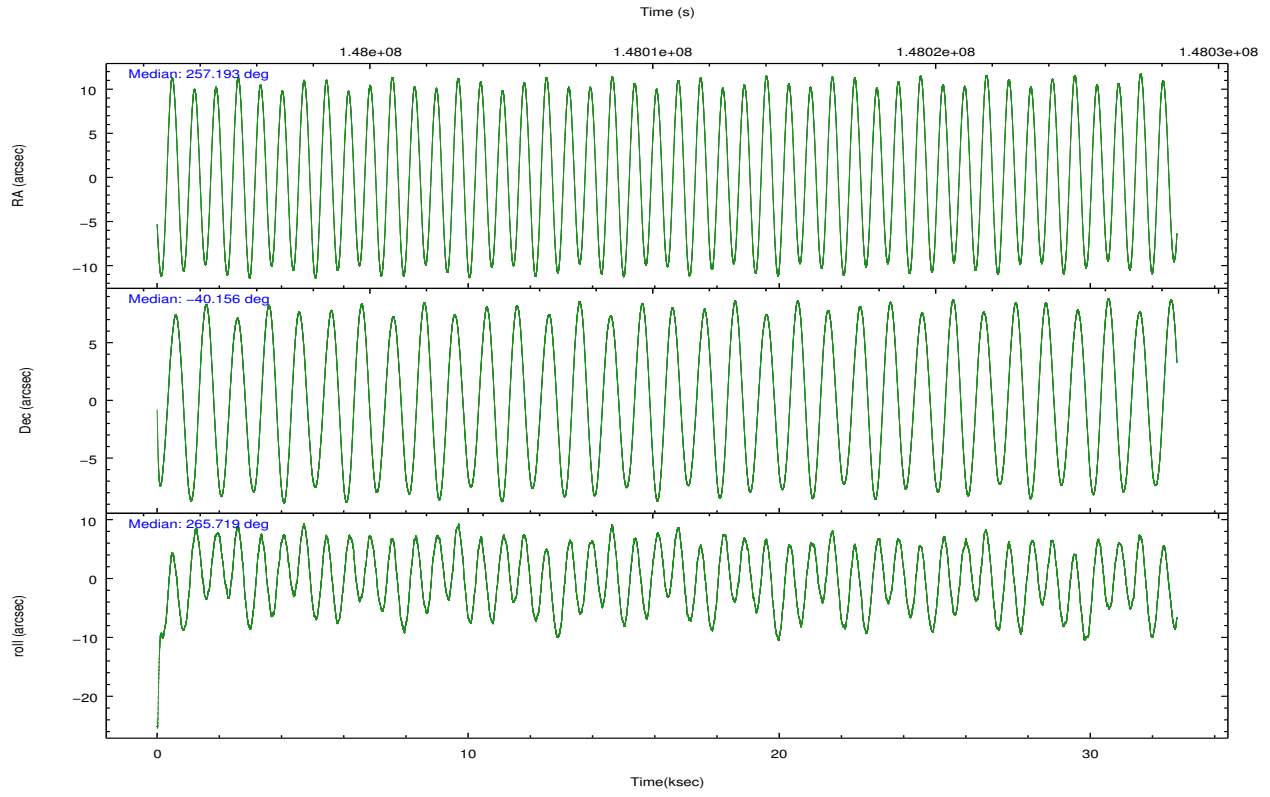
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	220090	288570	210800	282912	258403	201852	grade 0 events	12064	18215	21688	14366	23694	11426
rejected events	193835	153181	171552	154325	196105	170637		5%	6%	10%	5%	9%	5%
rejected %	88%	53%	81%	54%	75%	84%	grade 1 events	214	378	137	439	205	108
								0%	0%	0%	0%	0%	0%
							grade 2 events	5243	39082	6607	26194	11682	10202
								2%	13%	3%	9%	4%	5%
							grade 3 events	2628	5522	2954	12168	6719	2401
								1%	1%	1%	4%	2%	1%
							grade 4 events	2416	5233	2836	11891	6164	2385
								1%	1%	1%	4%	2%	1%
							grade 5 events	8269	20974	8702	25778	11279	9244
								3%	7%	4%	9%	4%	4%
							grade 6 events	3912	67364	5171	63991	14044	4806
								1%	23%	2%	22%	5%	2%
							grade 7 events	185344	131802	162705	128085	184616	161280
								84%	45%	77%	45%	71%	79%

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	257.177686	257.193546405648	Subarray requested	NONE	NONE
[deg] Pointing Dec	-40.132000	-40.15637379968479	Alternating exposures requested	N	N
[deg] Pointing Roll	265.560538	265.7273885135991	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	147994798.184000	147993584.89856			
Observation start date	2002-09-09T21:38:54	2002-09-09T21:19:44			
[s] Observation end time (MET)	148026898.184000	148027440.64996			
Observation end date	2002-09-10T06:33:54	2002-09-10T06:44:00			
Read mode	TIMED	TIMED			

2.3 Aspect



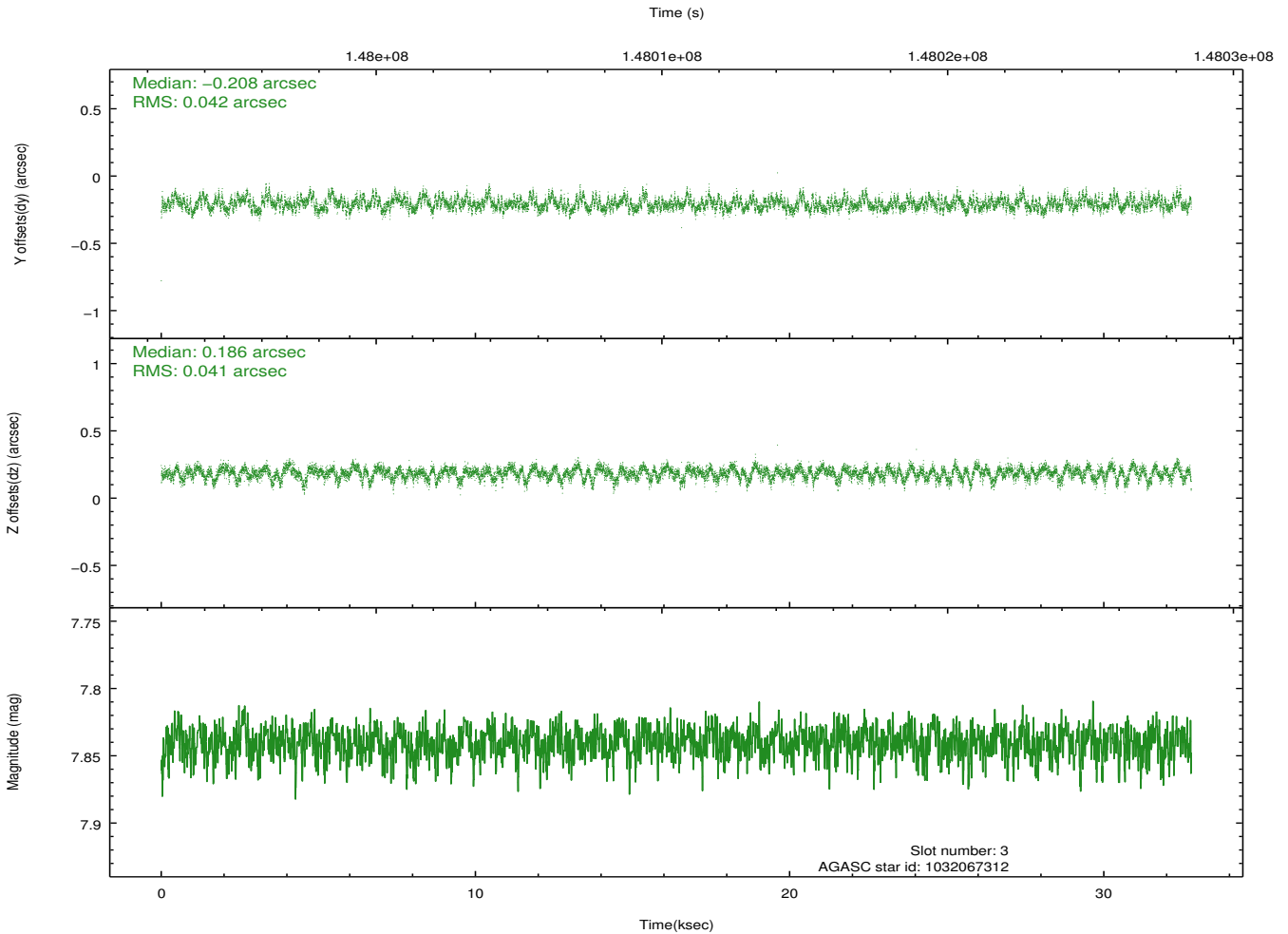
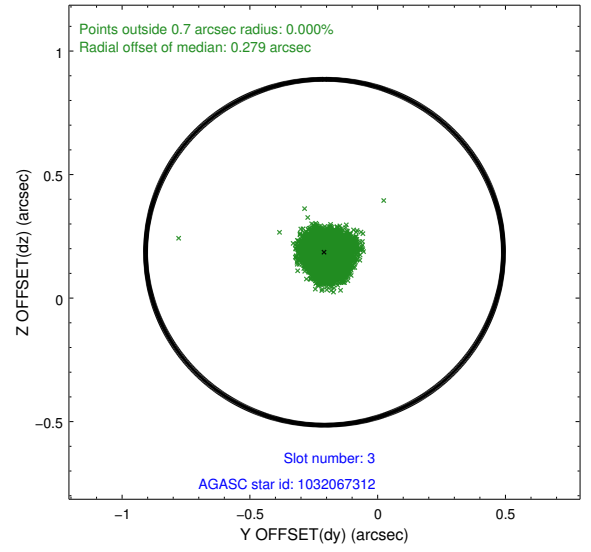
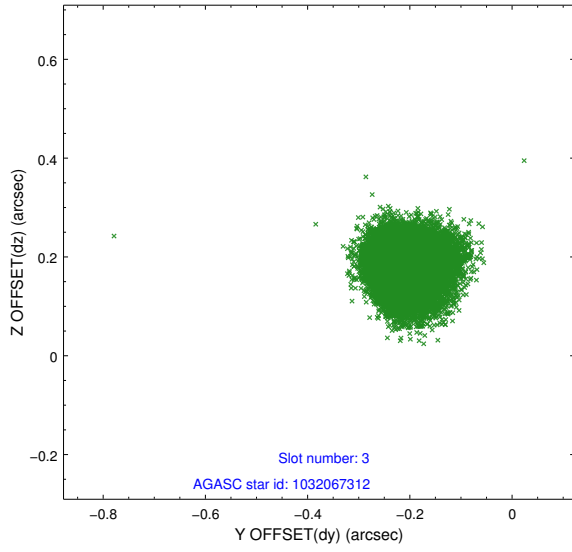


Slot Statistics

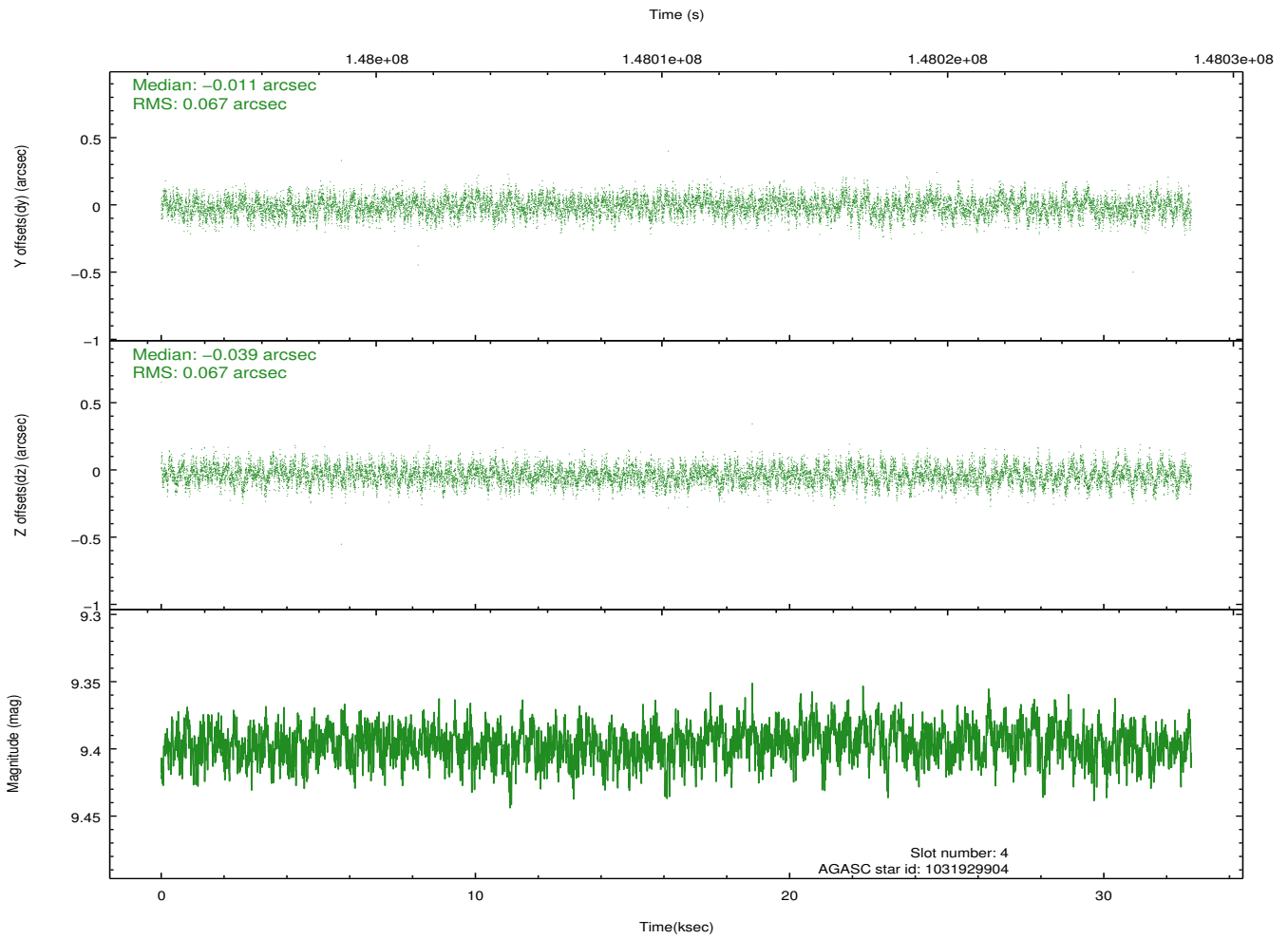
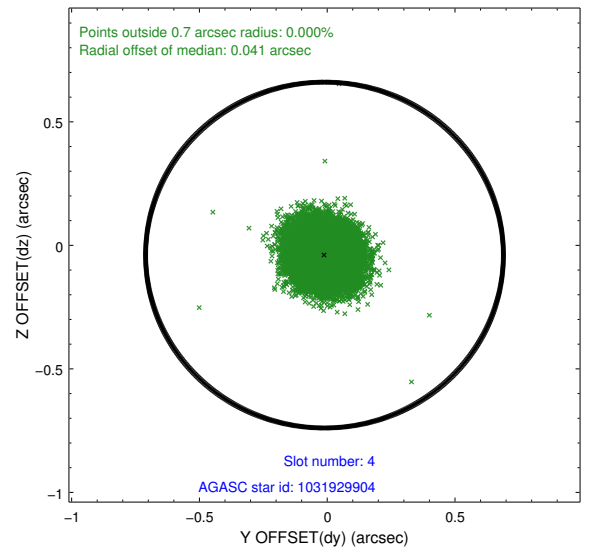
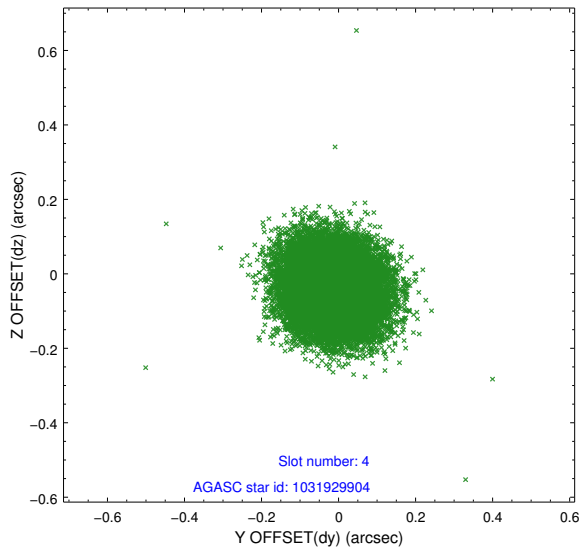
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7996	-0.010	-0.004	0.008	0.013	0.000000	0.000000	-755.80	-1728.87
1	FID	ACIS-S-4	7.20	7996	-0.002	0.006	0.005	0.010	0.000000	0.000000	2157.47	179.55
2	FID	ACIS-S-5	7.24	7995	-0.020	0.007	0.008	0.014	0.000000	0.000000	-1808.57	173.31
3	GUIDE	1032067312	7.84	15992	-0.208	0.186	0.062	0.098	258.048957	-39.760316	-1508.24	2301.60
4	GUIDE	1031929904	9.40	15981	-0.011	-0.039	0.101	0.160	256.776341	-40.685313	2074.58	-937.24
5	GUIDE	1031938080	9.85	15973	0.193	-0.228	0.146	0.244	256.292145	-40.702128	2247.50	-2249.47
6	GUIDE	1031930768	9.67	15985	-0.019	-0.078	0.093	0.151	256.672119	-40.600885	1795.44	-1246.42
7	GUIDE	1032061480	9.53	15924	0.039	0.165	0.103	0.164	257.546142	-40.441464	1036.11	1093.52

2.4 Star Slots

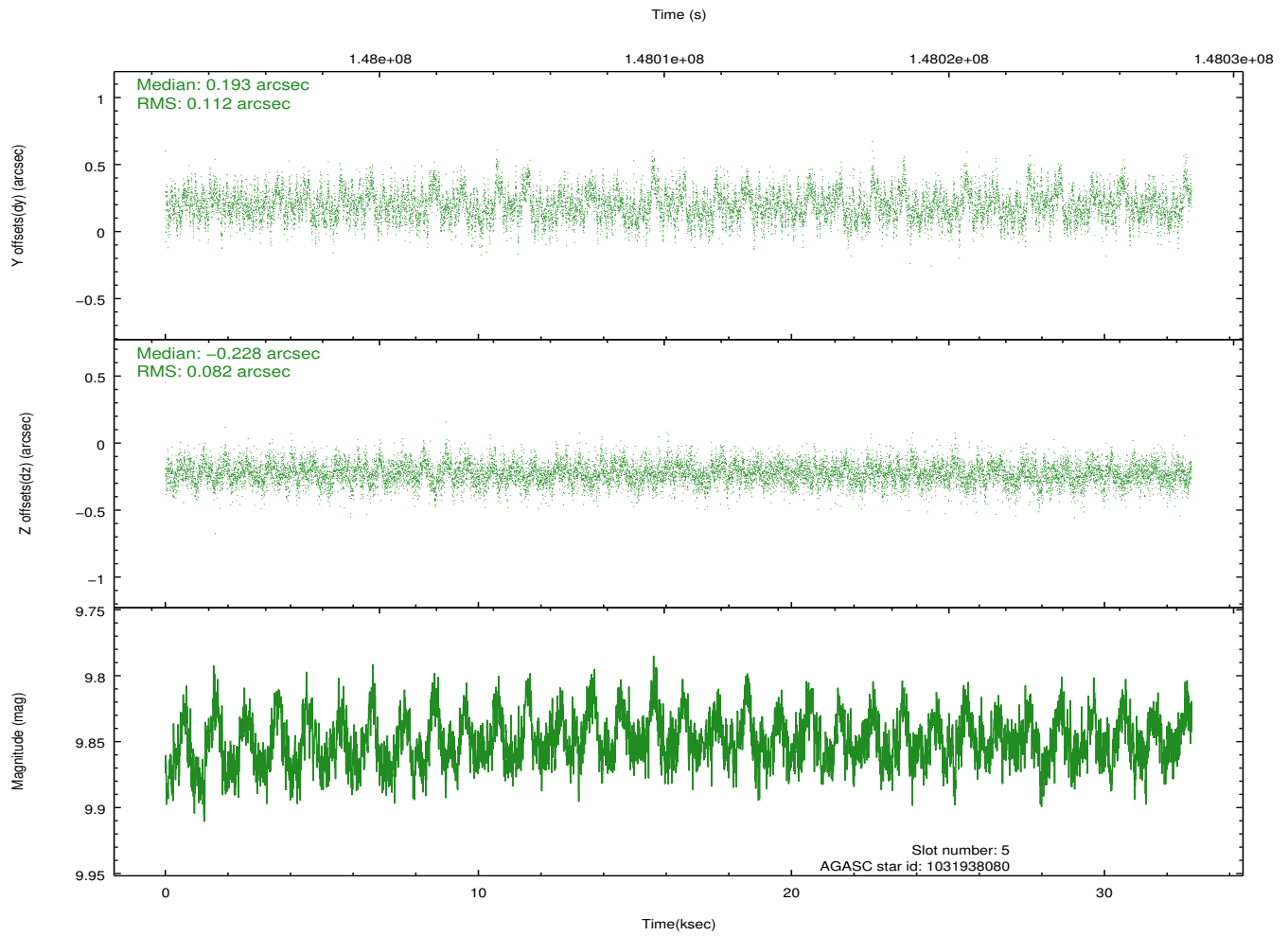
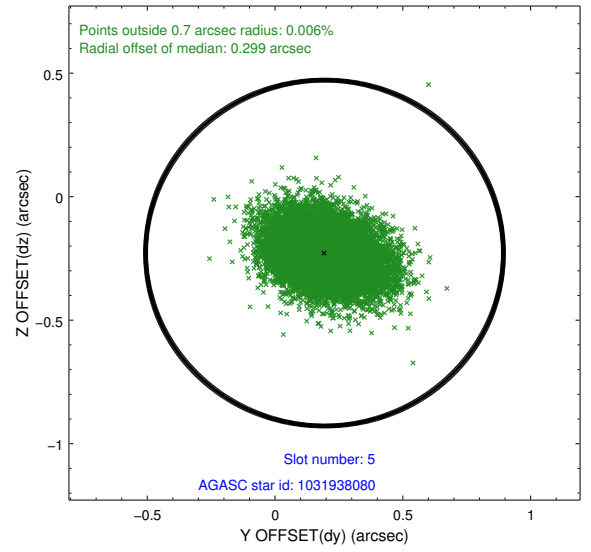
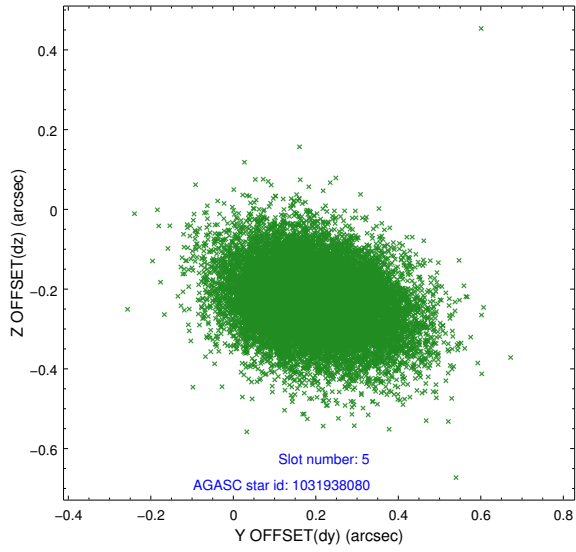
2.4.1 Slot 3



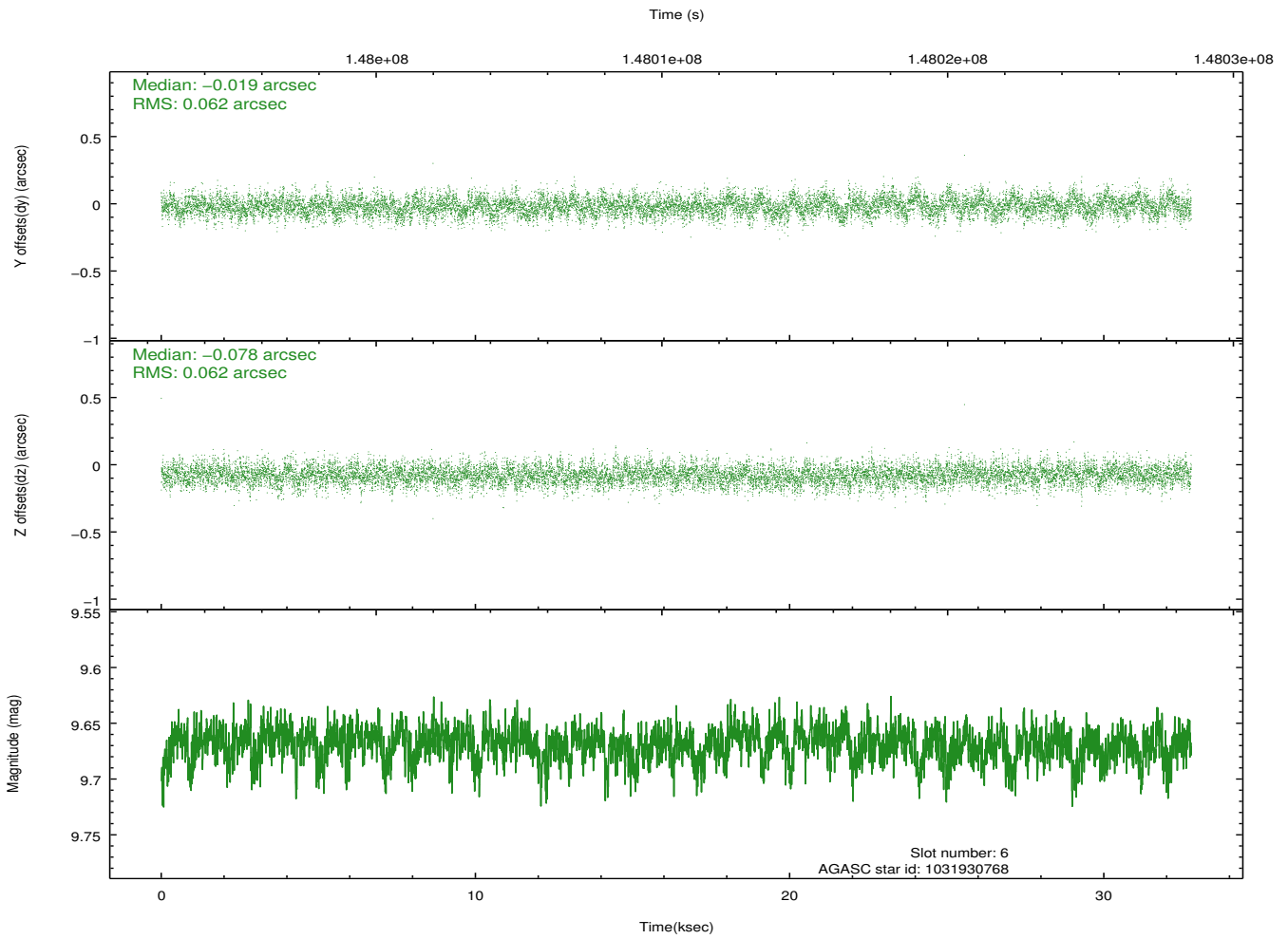
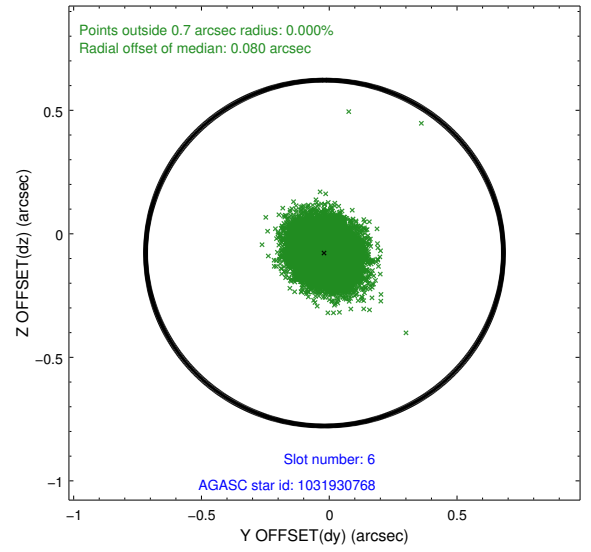
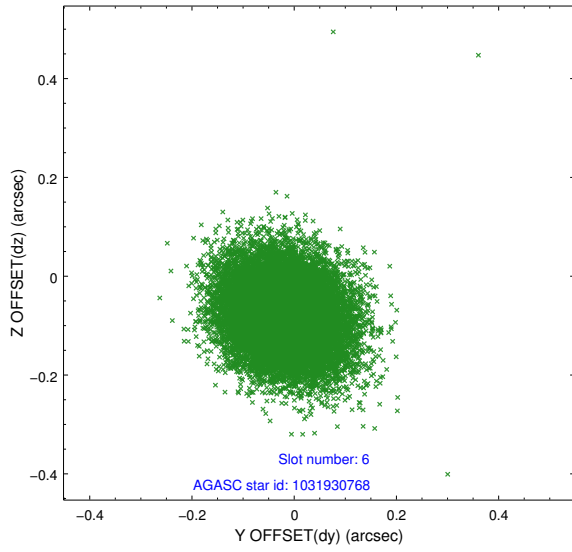
2.4.2 Slot 4



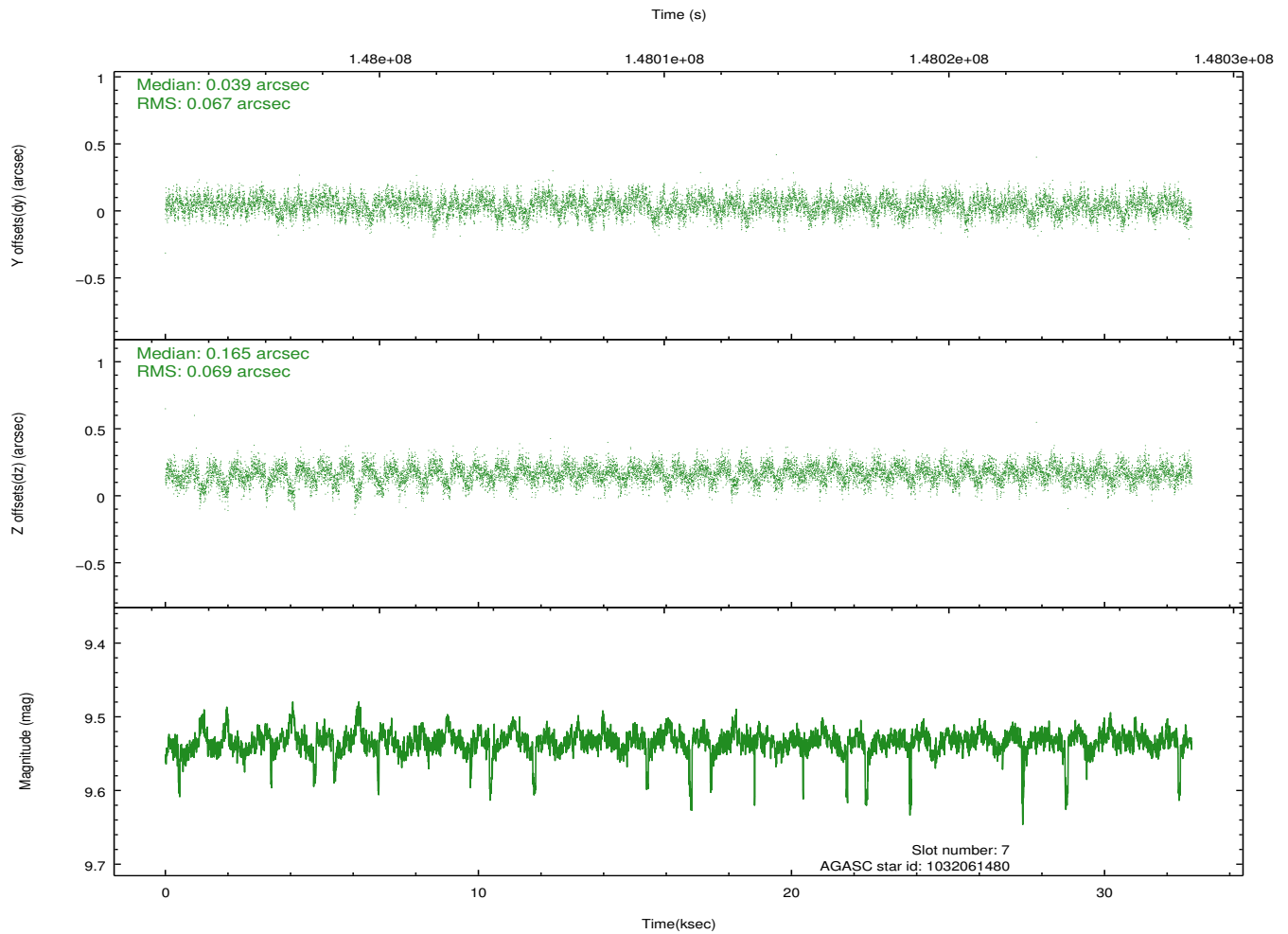
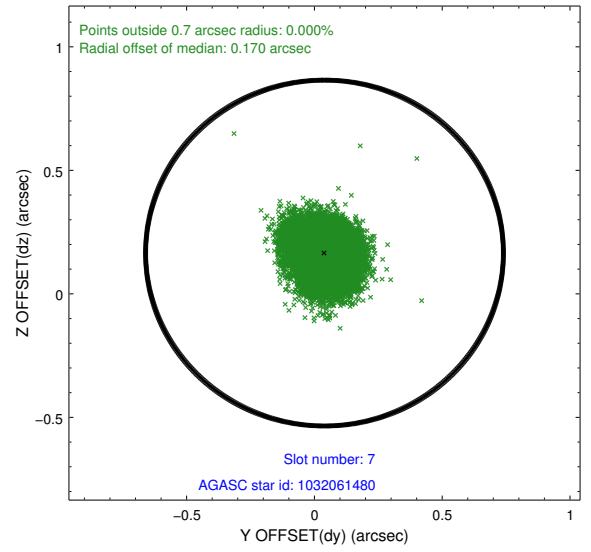
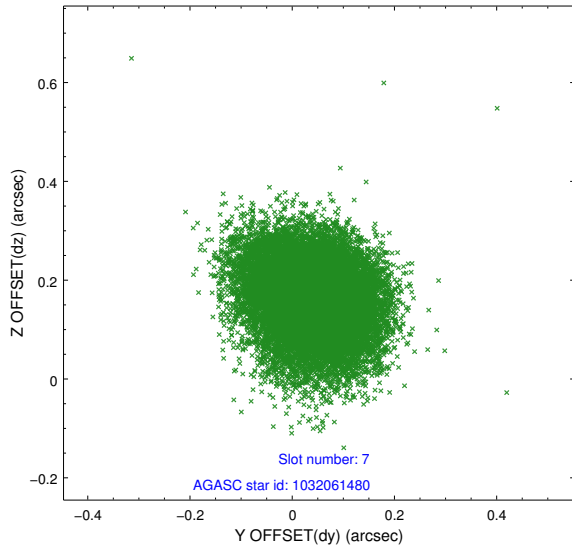
2.4.3 Slot 5



2.4.4 Slot 6

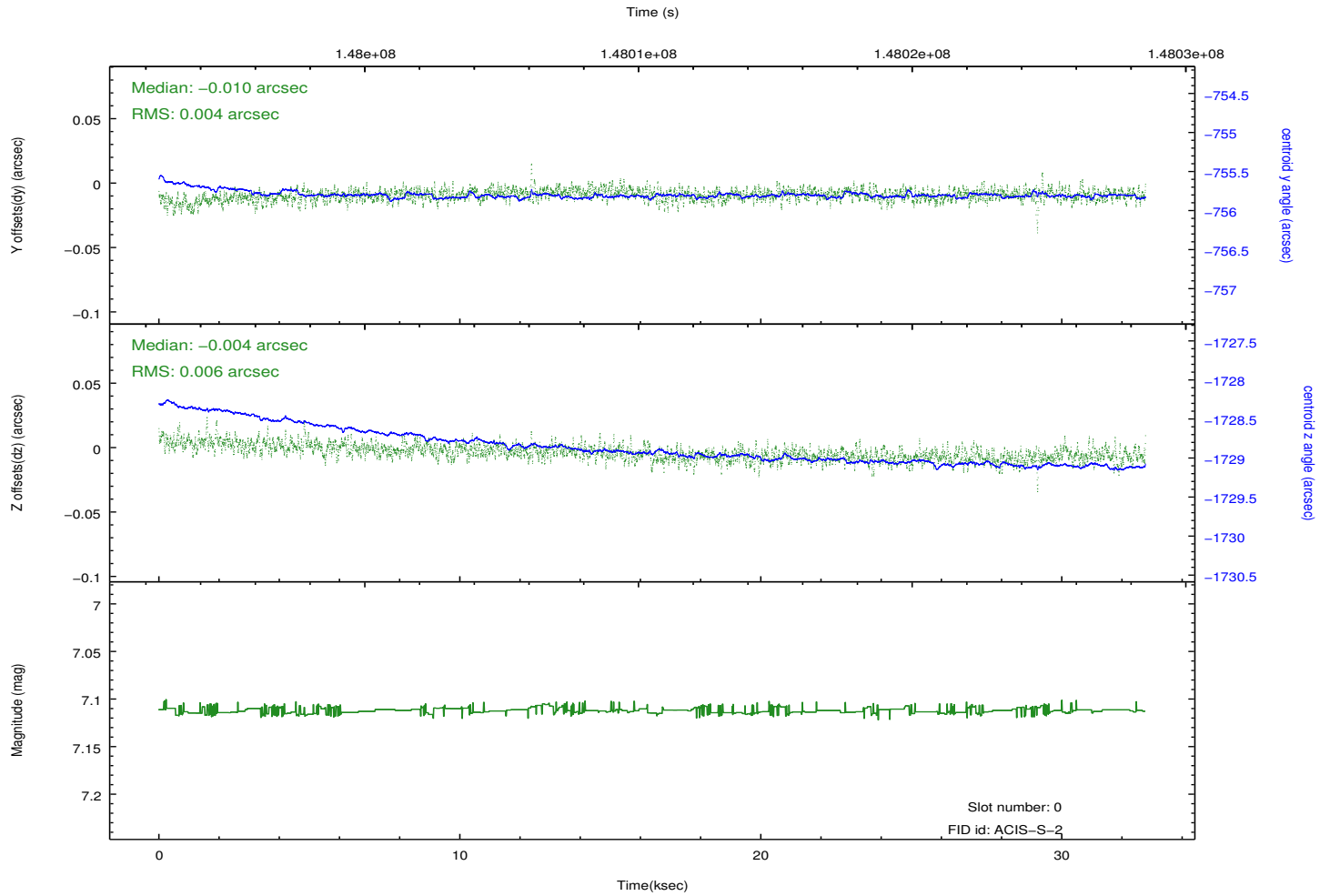
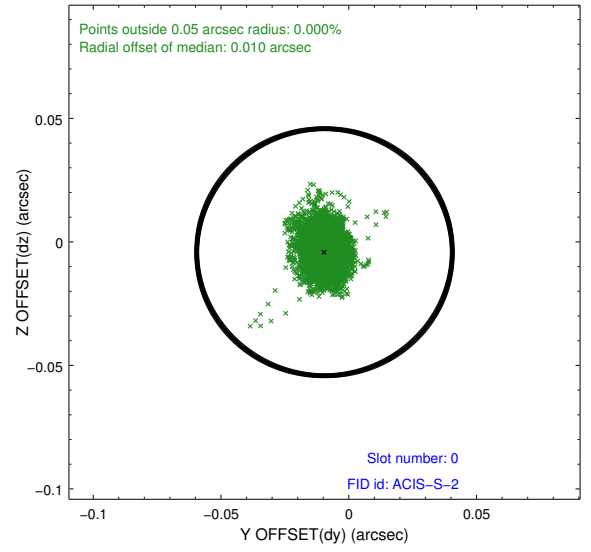
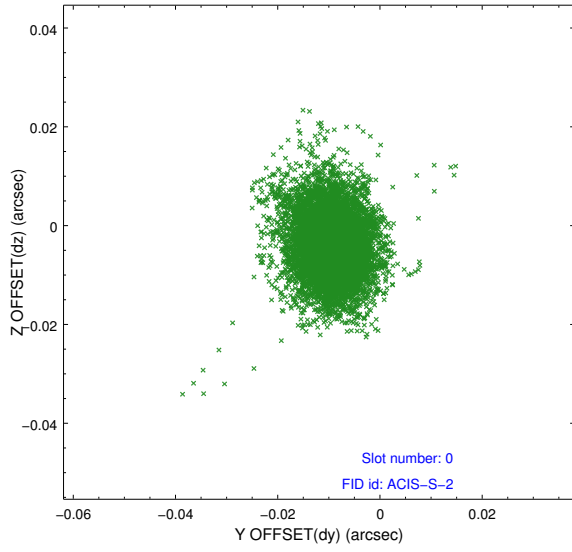


2.4.5 Slot 7

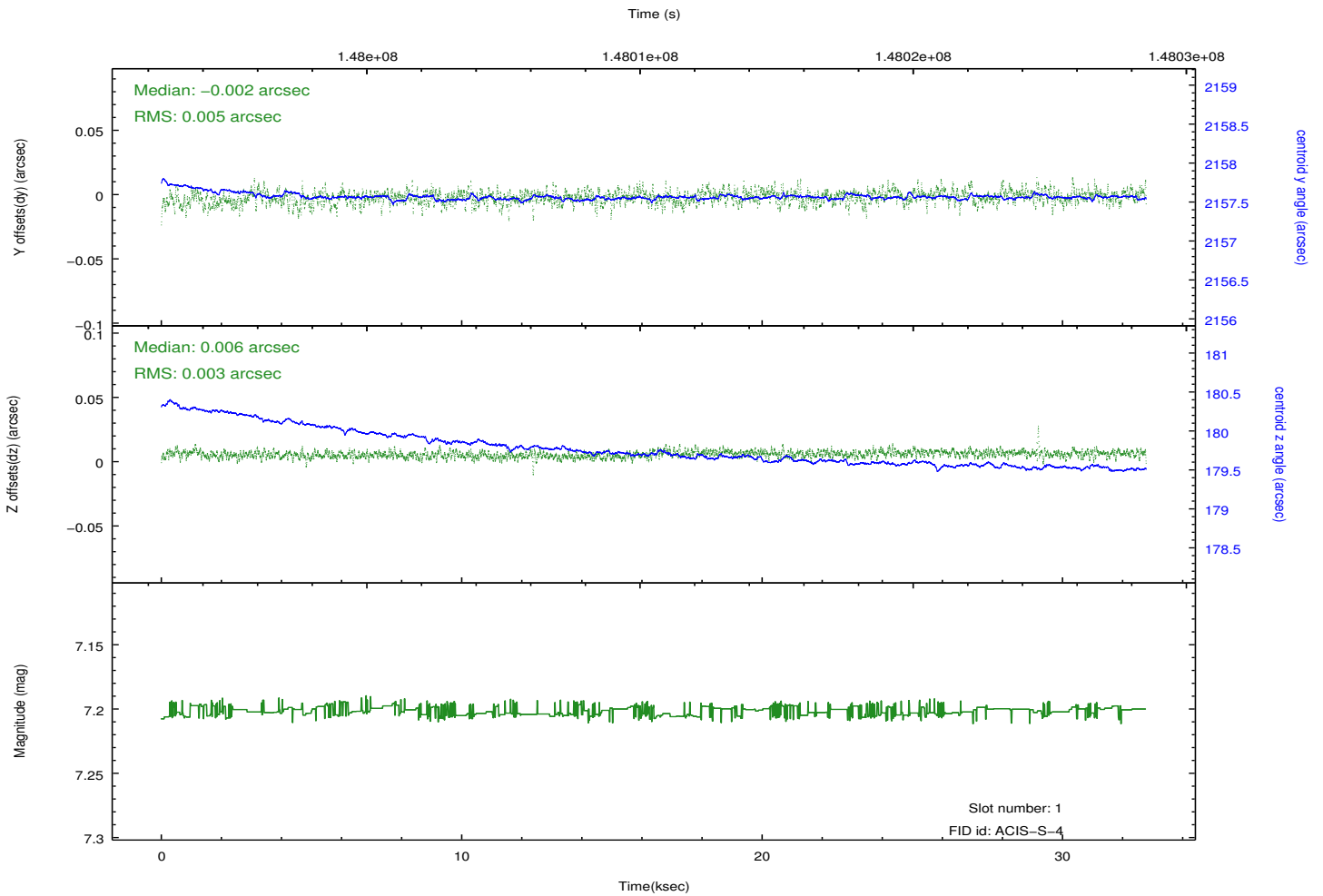
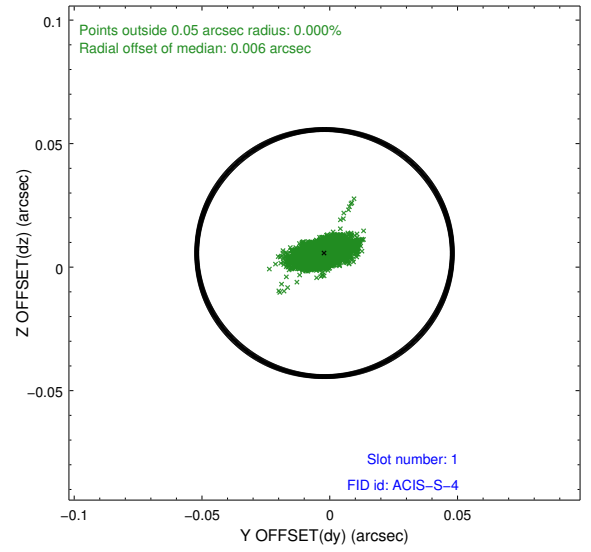
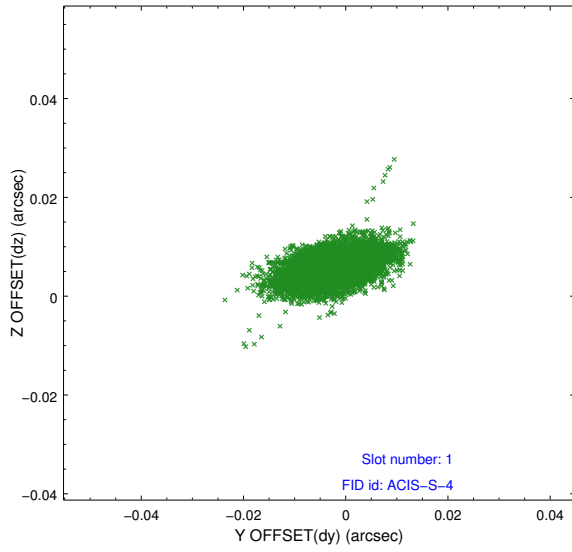


2.5 FID Slots

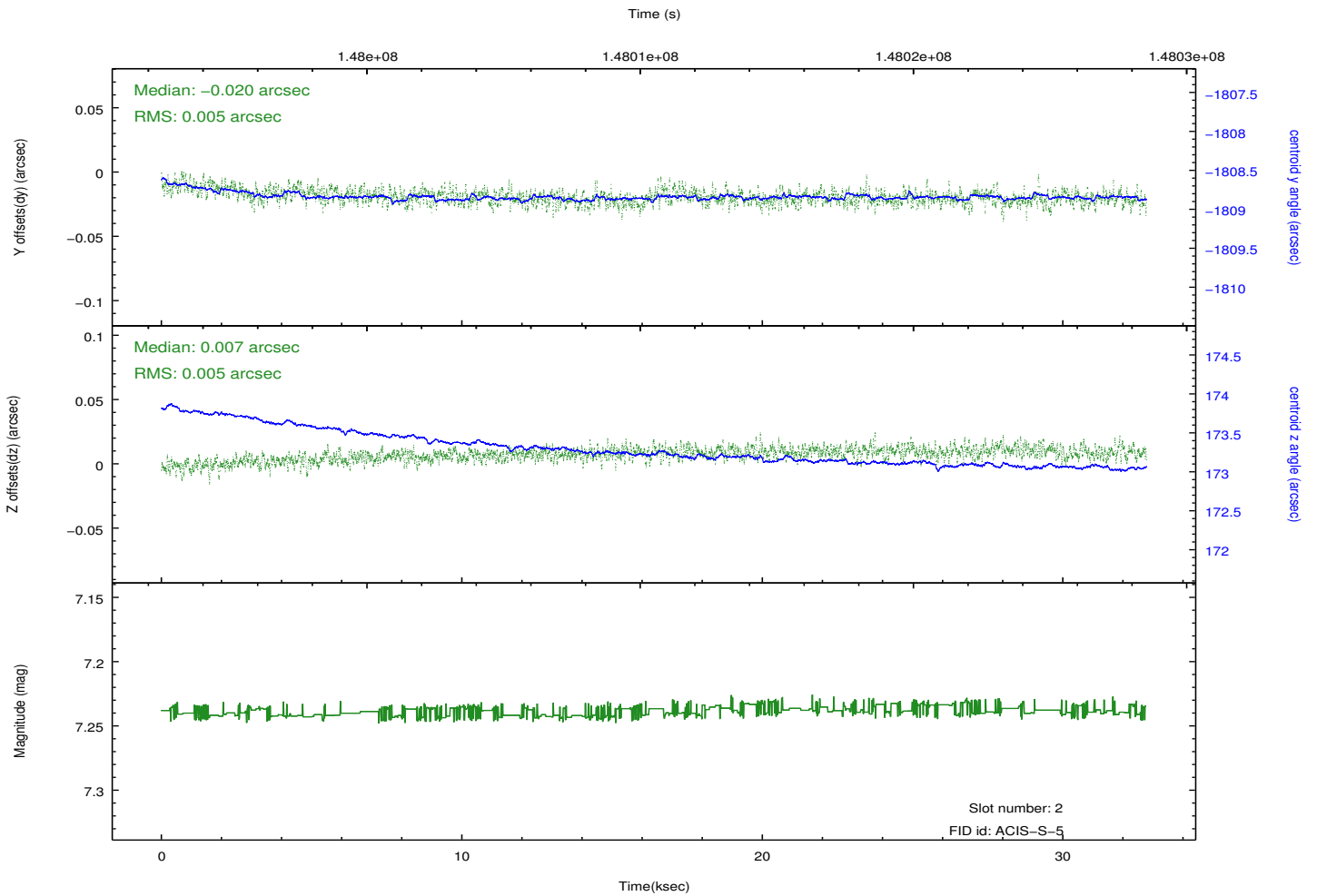
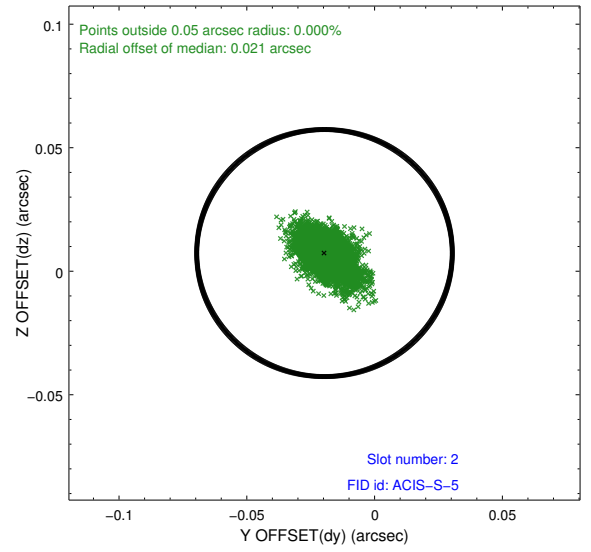
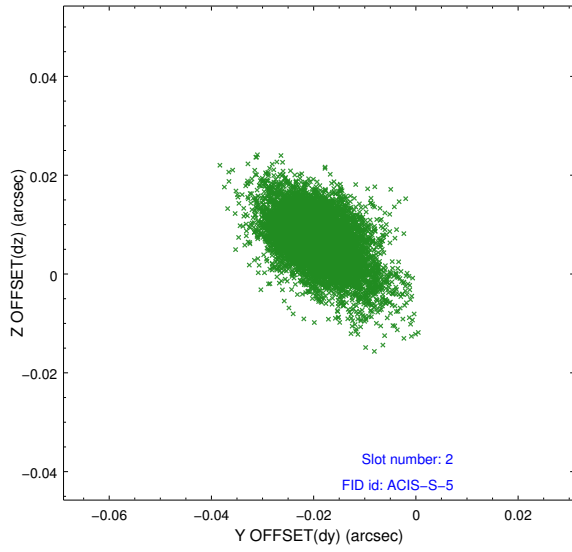
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

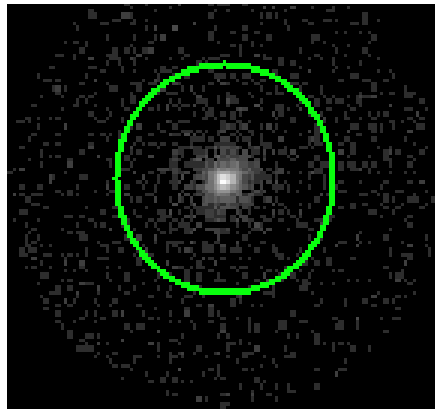


3 Gratings

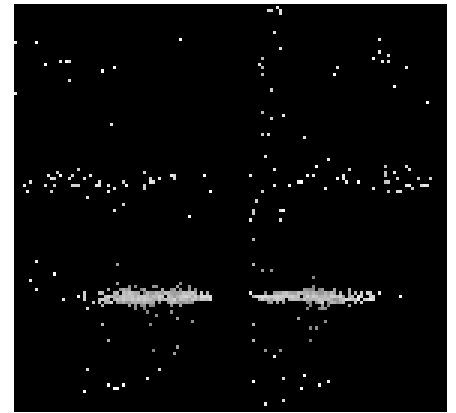
3.1 HEG Arm



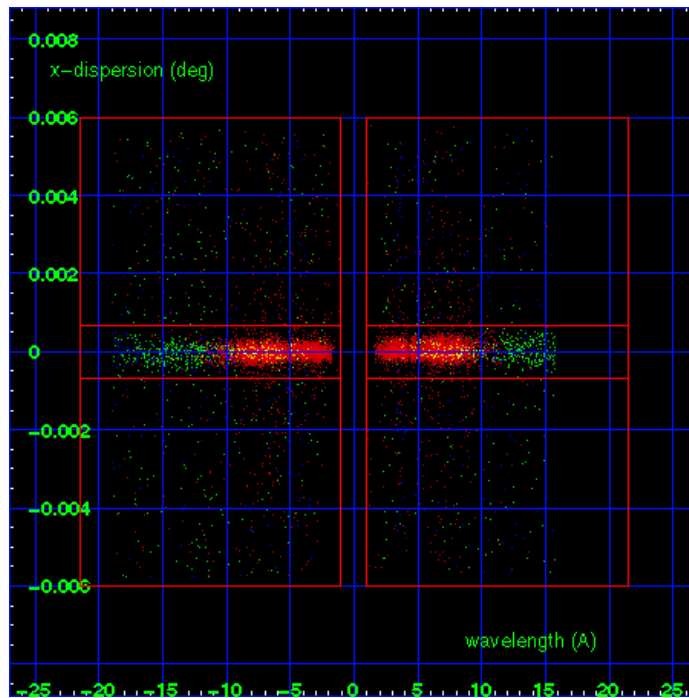
HEG Order Sort 123



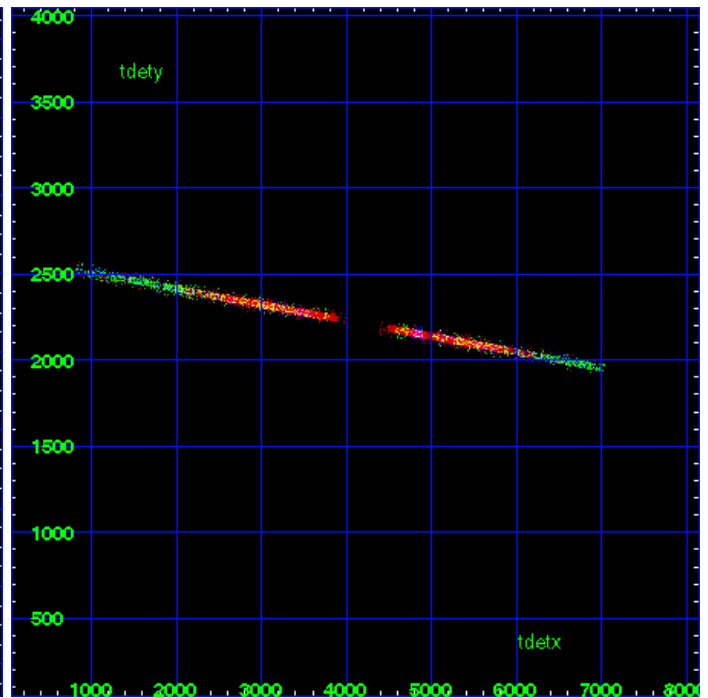
HEG Zero Order



HEG Order Sort ALL

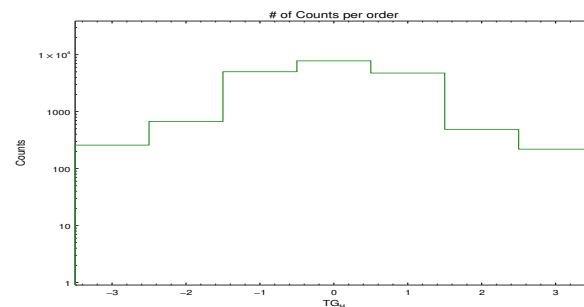


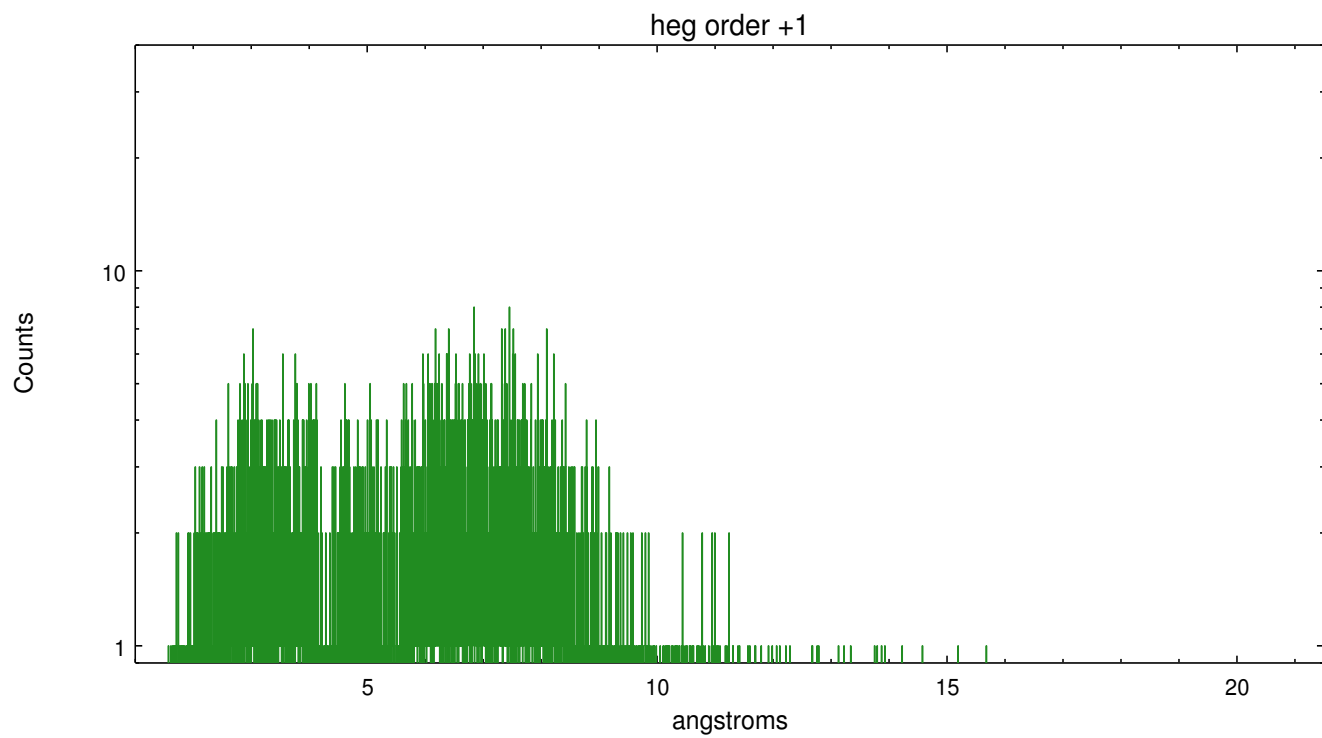
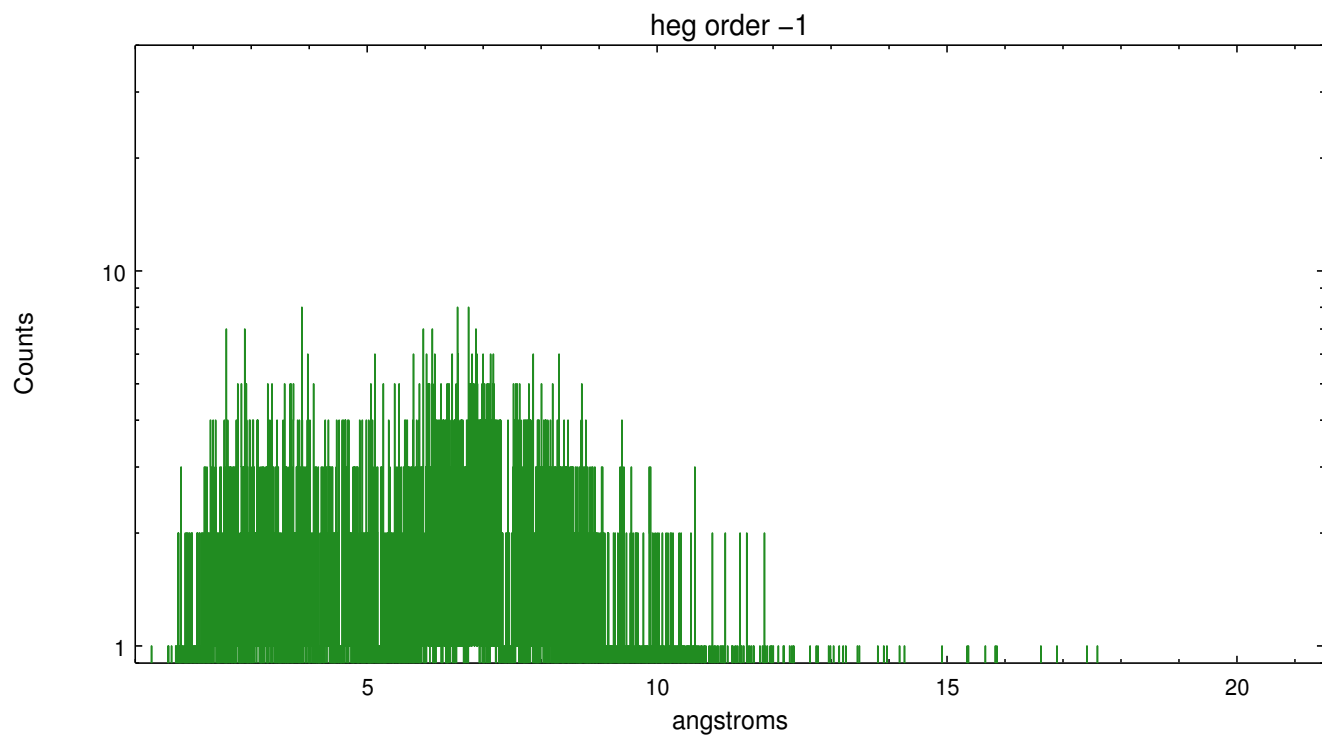
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	258	672	5017	7791	4756	488	219

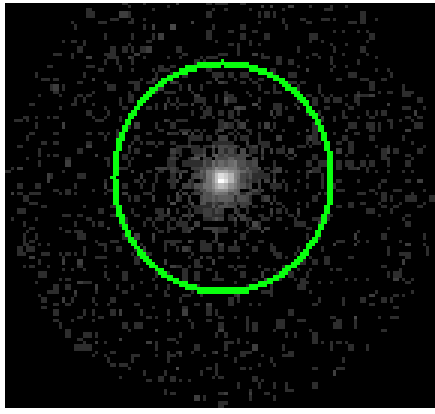




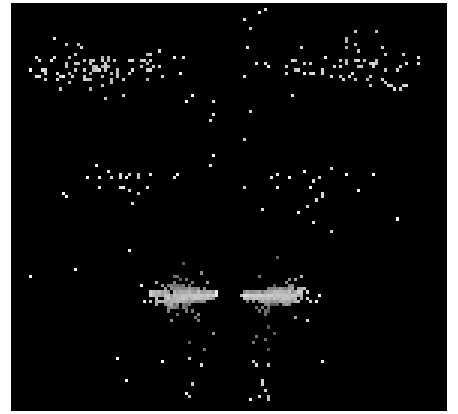
3.2 MEG Arm



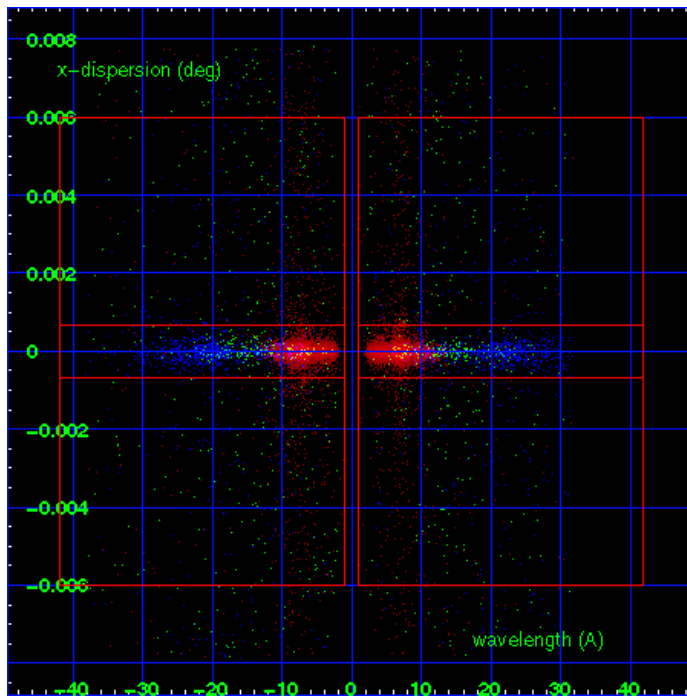
MEG Order Sort 123



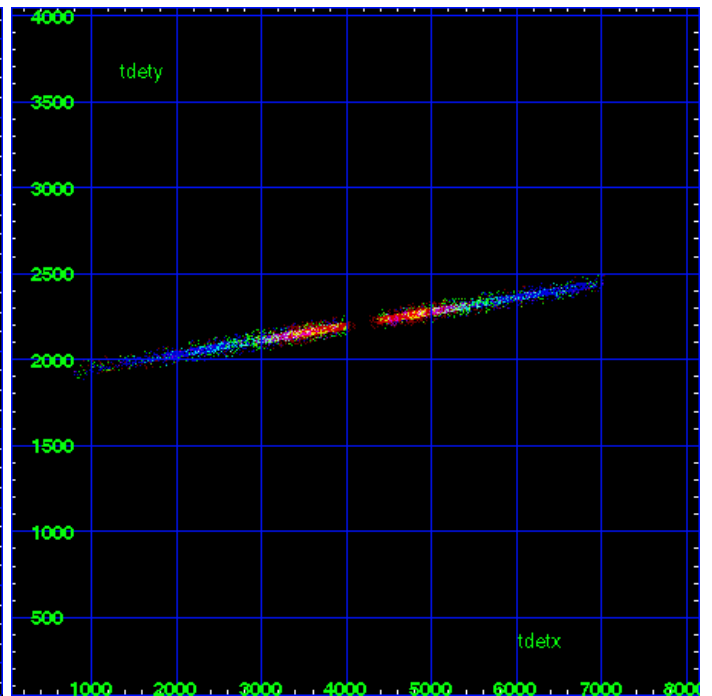
MEG Zero Order



MEG Order Sort ALL

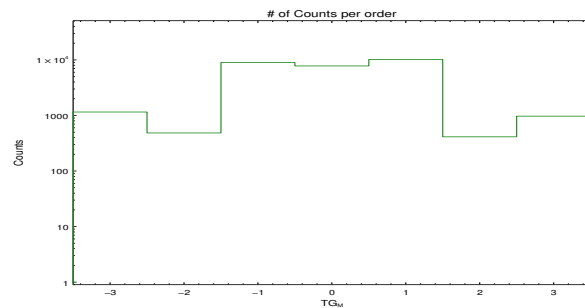


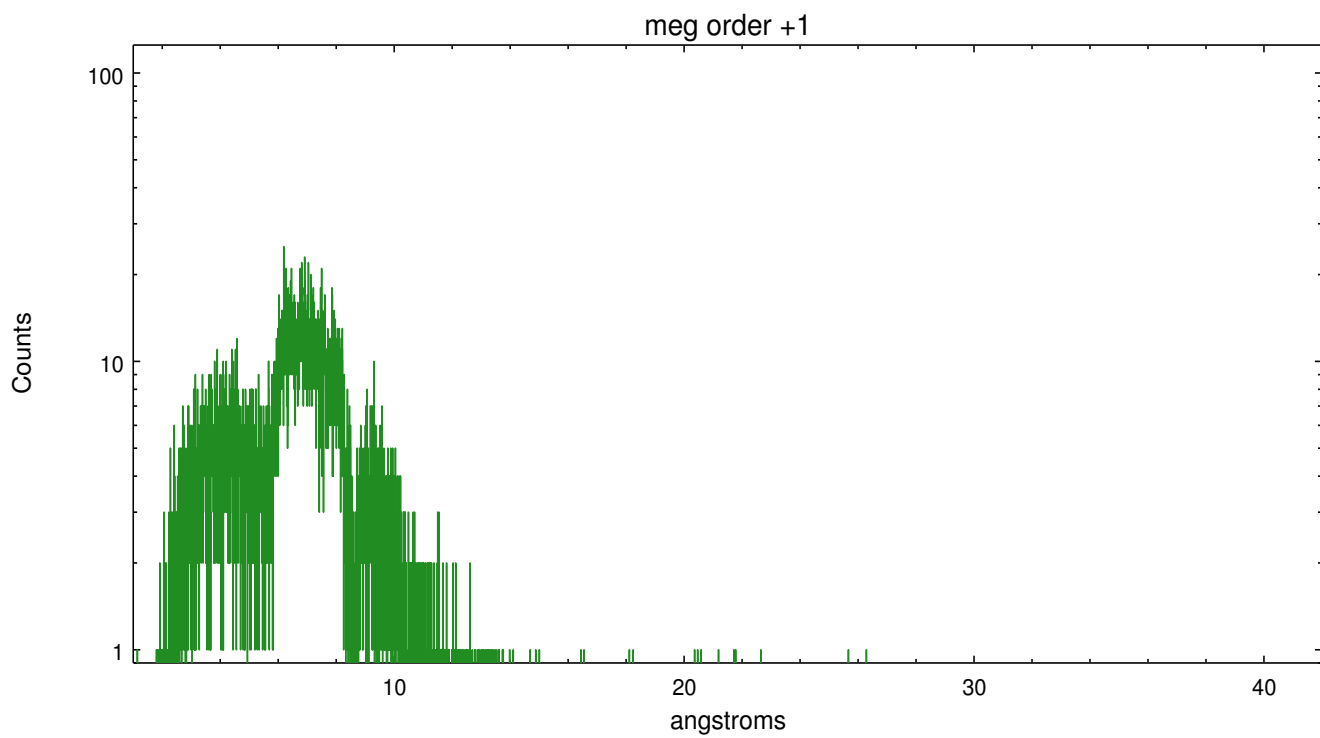
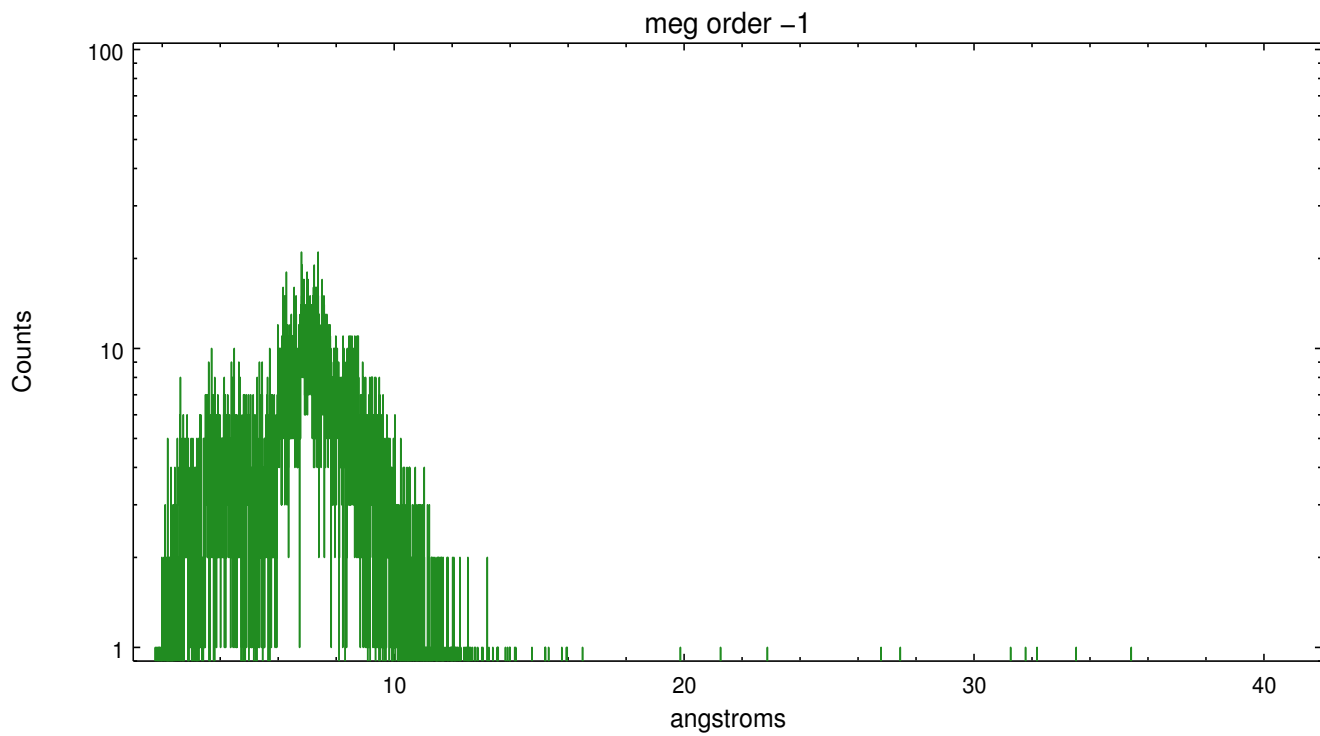
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1154	485	8971	7791	10167	413	972





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.057

A.2 Comments