

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7371 - L2 Version 2
Chandra X-Ray Center

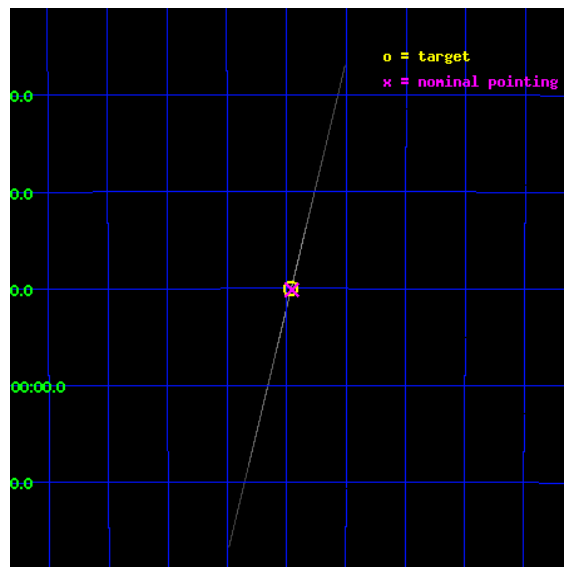
L2 Processing Date : Apr 6 2012

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1 Front

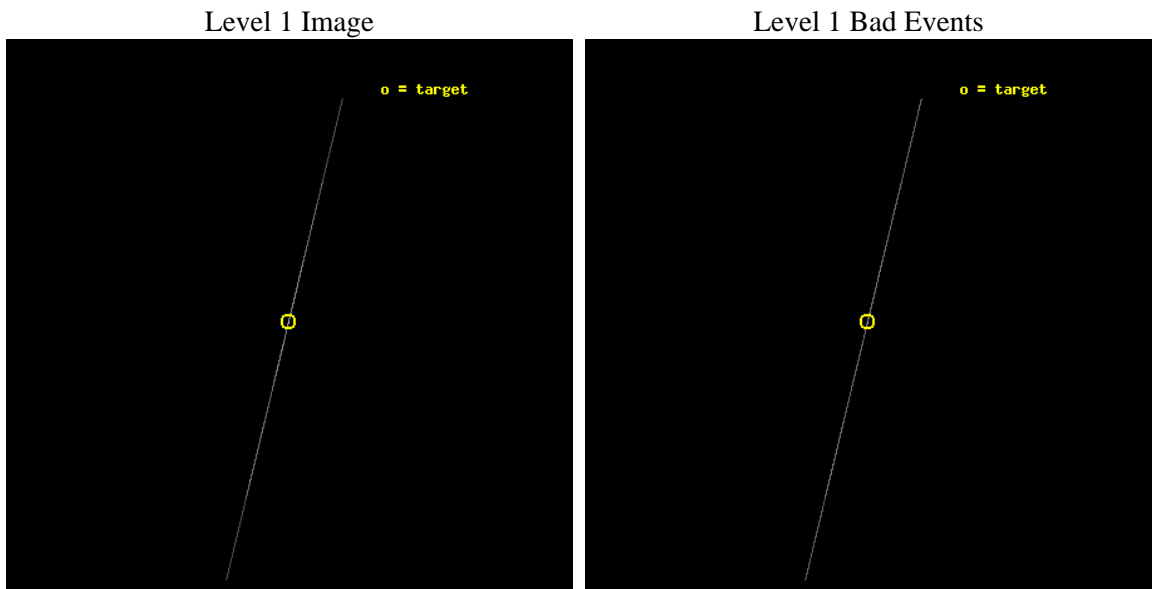
seq_num	400473	Sequence number
obs_id	7371	Observation id
title	Transient radiative winds from He-rich thermonuclear bursts	Propos
observer	Prof Claude Canizares	Principal investigator
object	4U 1728-34	Source name
ra_targ	262.990417	Observer's specified target RA [deg]
dec_targ	-33.834028	Observer's specified target Dec [deg]
ra_nom	262.98881564203	Nominal RA [deg]
dec_nom	-33.83563388628	Nominal Dec [deg]
roll_nom	283.68573963228	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39712.5	Sum of GTIs [s]
livetime	39557.373046875	Livetime [s]
ontime4	39712.5	Sum of GTIs [s]
ontime5	39712.5	Sum of GTIs [s]
ontime6	39712.5	Sum of GTIs [s]
ontime7	39712.5	Sum of GTIs [s]
ontime8	39712.5	Sum of GTIs [s]
ontime9	39712.5	Sum of GTIs [s]
l2events	2588710	Number of level 2 events



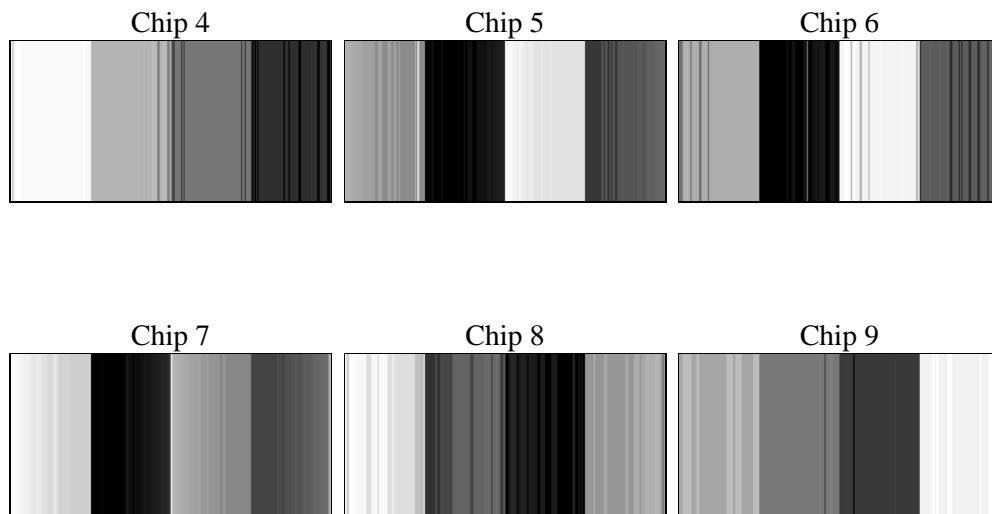
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39530.887000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	39712.5	Sum of GTIs [s]
caldbver	4.4.9	 	ontime4	39712.5	Sum of GTIs [s]
date	2012-04-06T02:33:36	Date and time of file creation	ontime5	39712.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	39712.5	Sum of GTIs [s]
			ontime7	39712.5	Sum of GTIs [s]
			ontime8	39712.5	Sum of GTIs [s]
			ontime9	39712.5	Sum of GTIs [s]
			l1events	2986775	Number of level 1 events

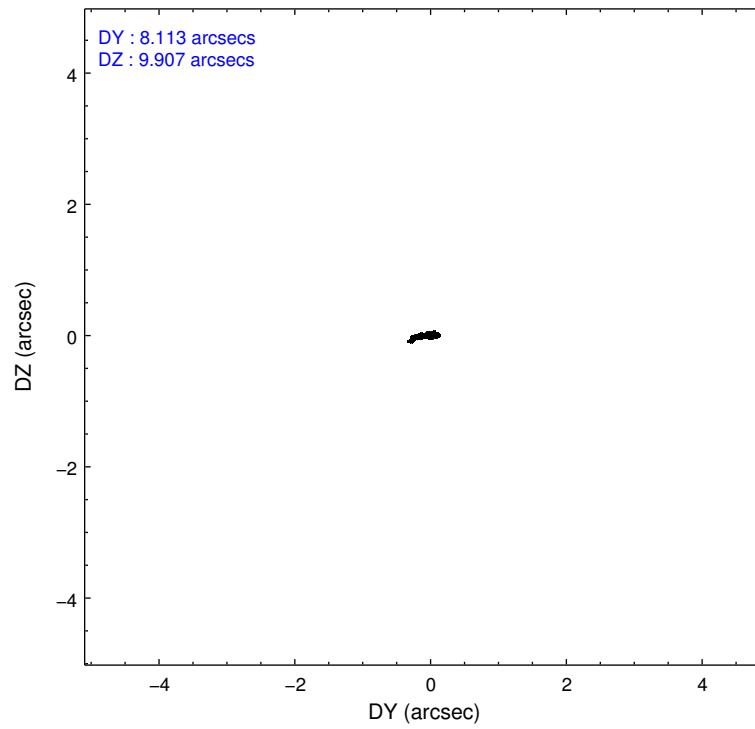
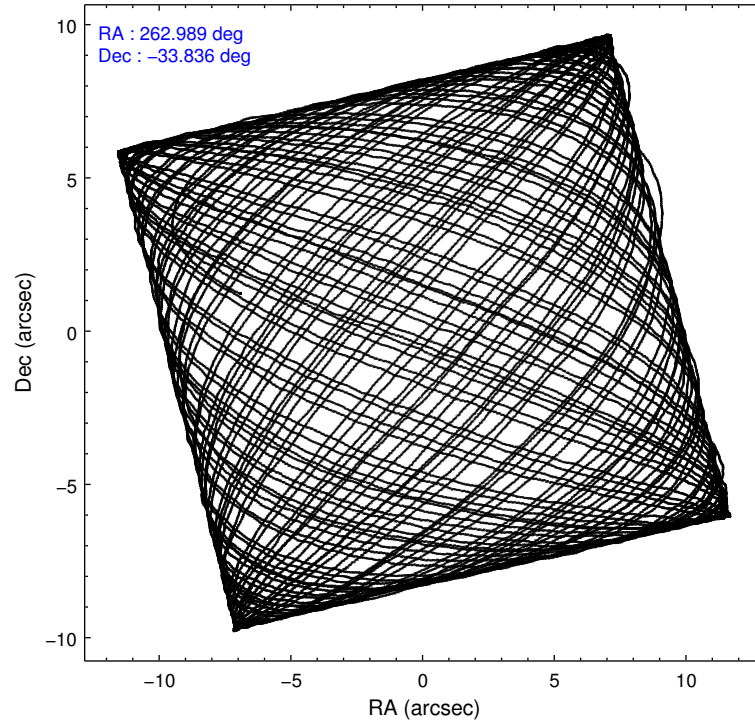
2.1.4 Events

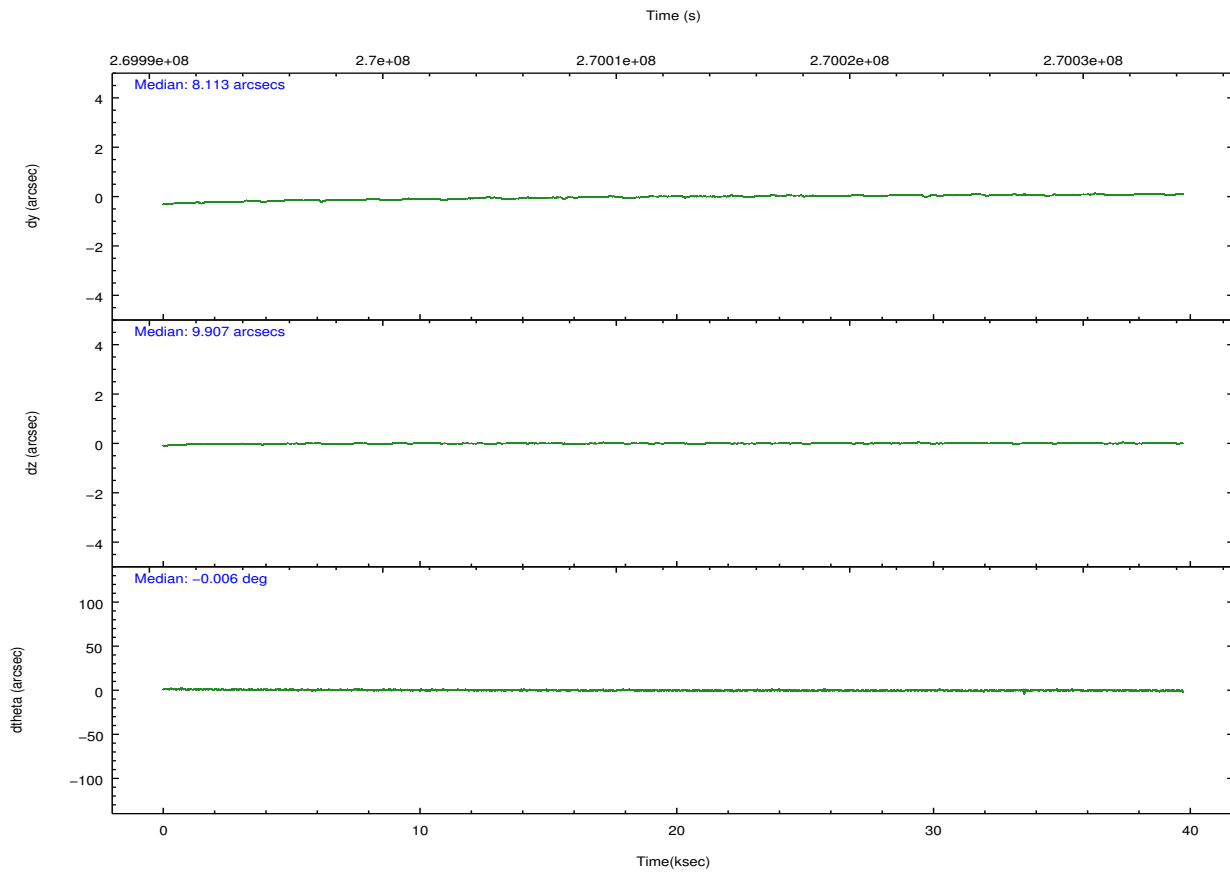
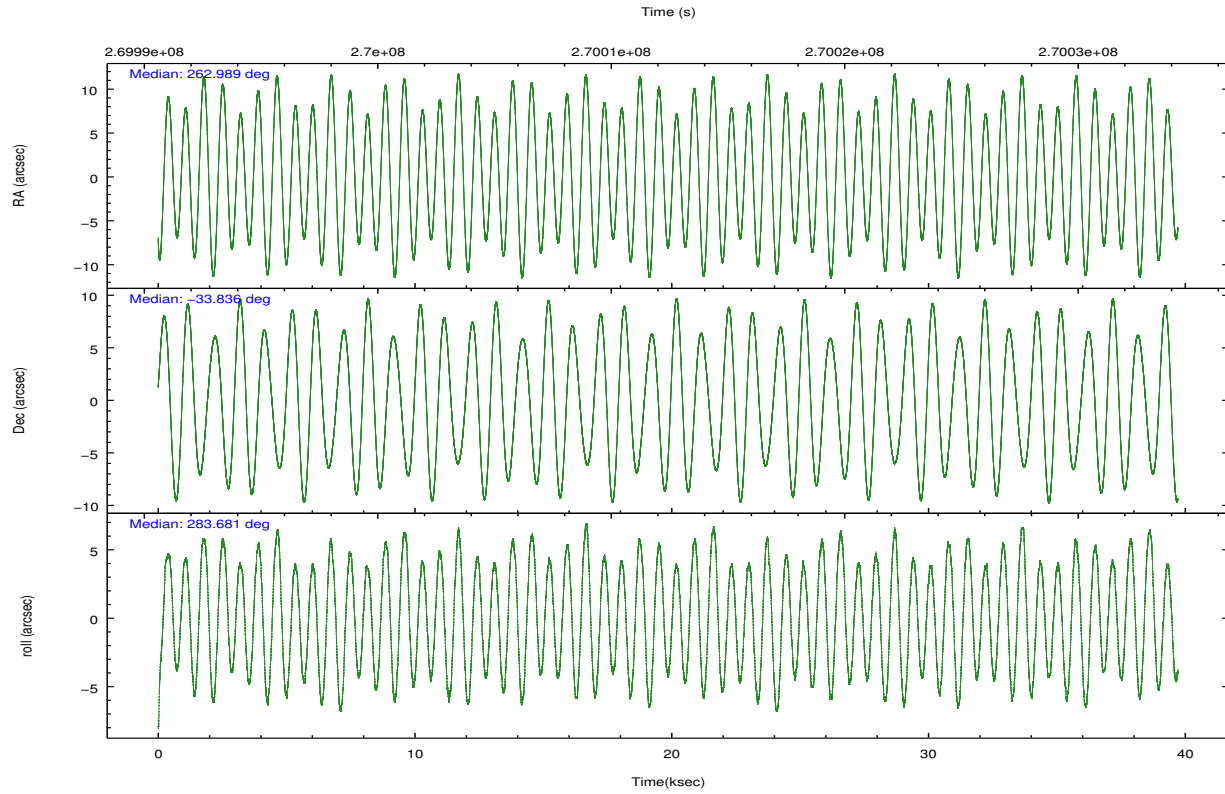
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	92996	368288	493420	1665130	266382	100559	grade 0 events	12110	49096	30705	282043	68146	14276
rejected events	14409	34734	19239	76157	23478	16632		13%	13%	6%	16%	25%	14%
rejected %	15%	9%	3%	4%	8%	16%	grade 1 events	344	593	371	6825	663	336
								0%	0%	0%	0%	0%	0%
							grade 2 events	33934	108535	361787	417916	96756	35821
								36%	29%	73%	25%	36%	35%
							grade 3 events	9218	8736	9703	150791	18080	8013
								9%	2%	1%	9%	6%	7%
							grade 4 events	9351	8421	9427	150287	17281	8633
								10%	2%	1%	9%	6%	8%
							grade 5 events	13920	33458	17960	66275	22421	16137
								14%	9%	3%	3%	8%	16%
							grade 6 events	14119	159449	63467	590993	43035	17343
								15%	43%	12%	35%	16%	17%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	262.965858	262.988815642028	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.816194	-33.83563388627984	Alternating exposures requested	N	N
[deg] Pointing Roll	283.516335	283.6857396322779	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-186.132523	-186.1397904050899			
[mm] SIM translation stage offset	-4	-3.992732177917873			
[s] Observation start time (MET)	269992758.184000	269992047.94521			
Observation start date	2006-07-22T21:58:13	2006-07-22T21:47:27			
[s] Observation end time (MET)	270032289.184000	270032503.1596			
Observation end date	2006-07-23T08:57:04	2006-07-23T09:01:43			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



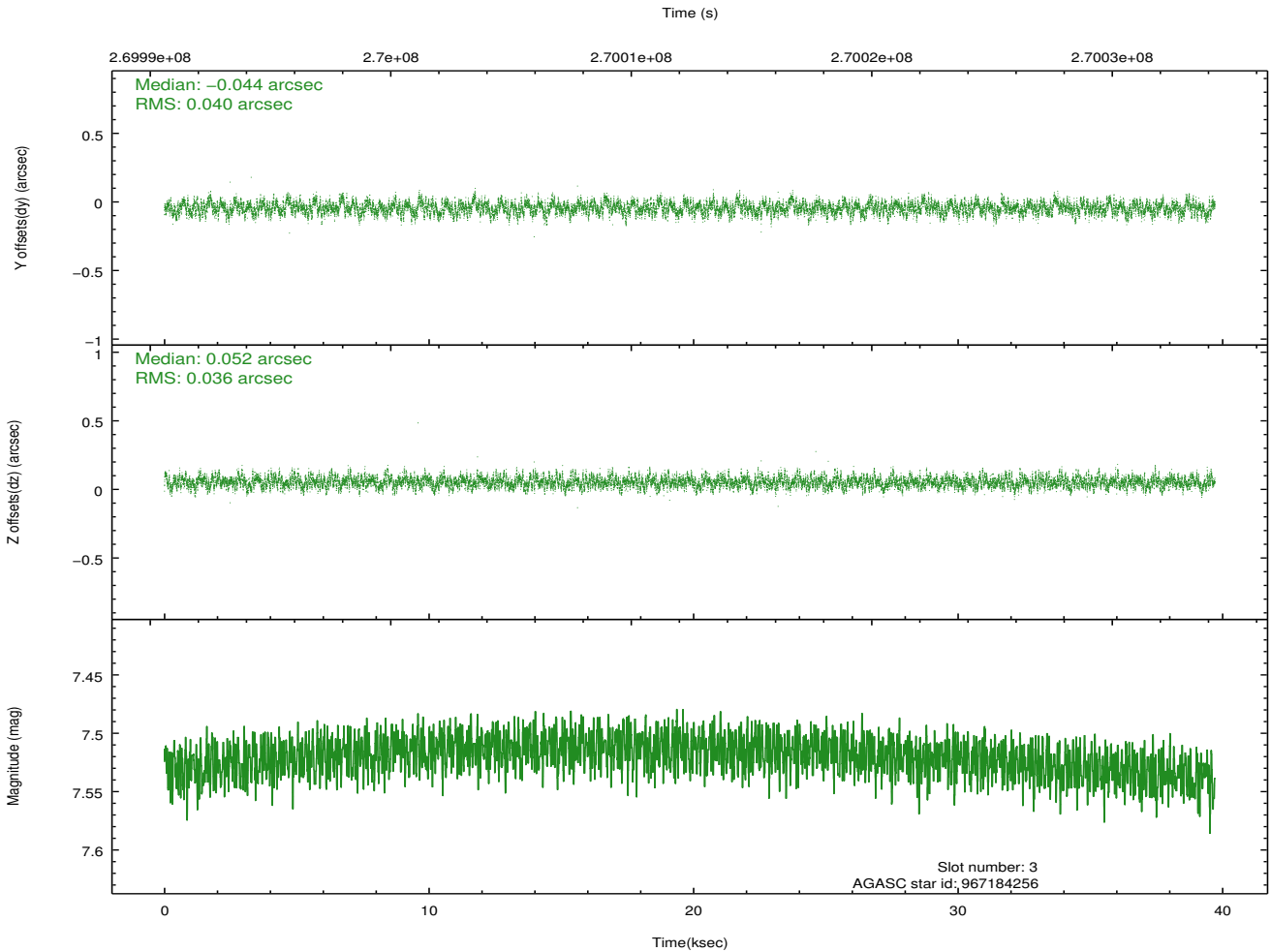
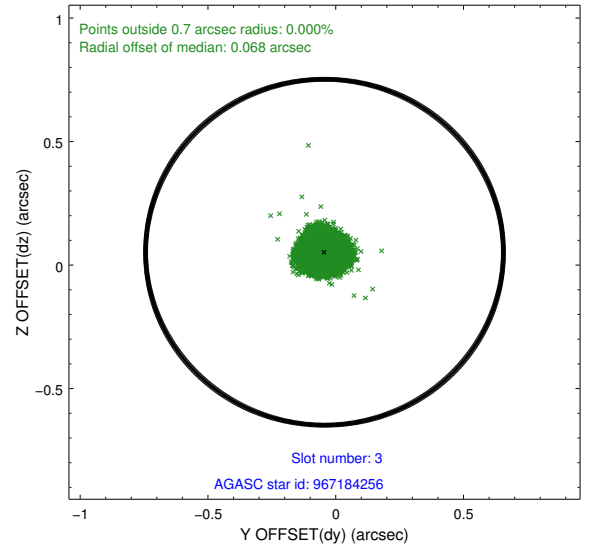
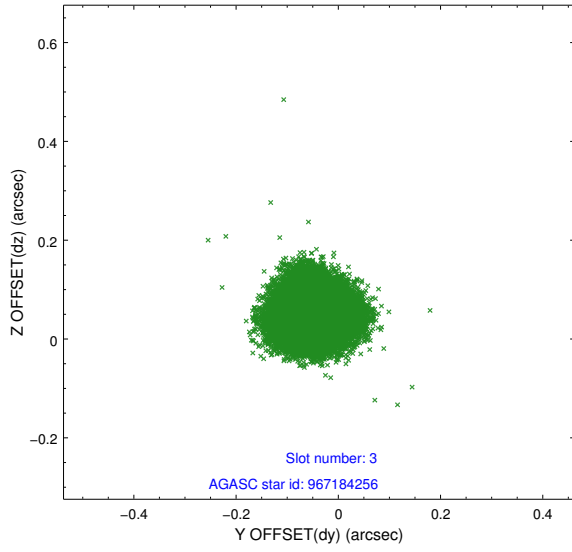


Slot Statistics

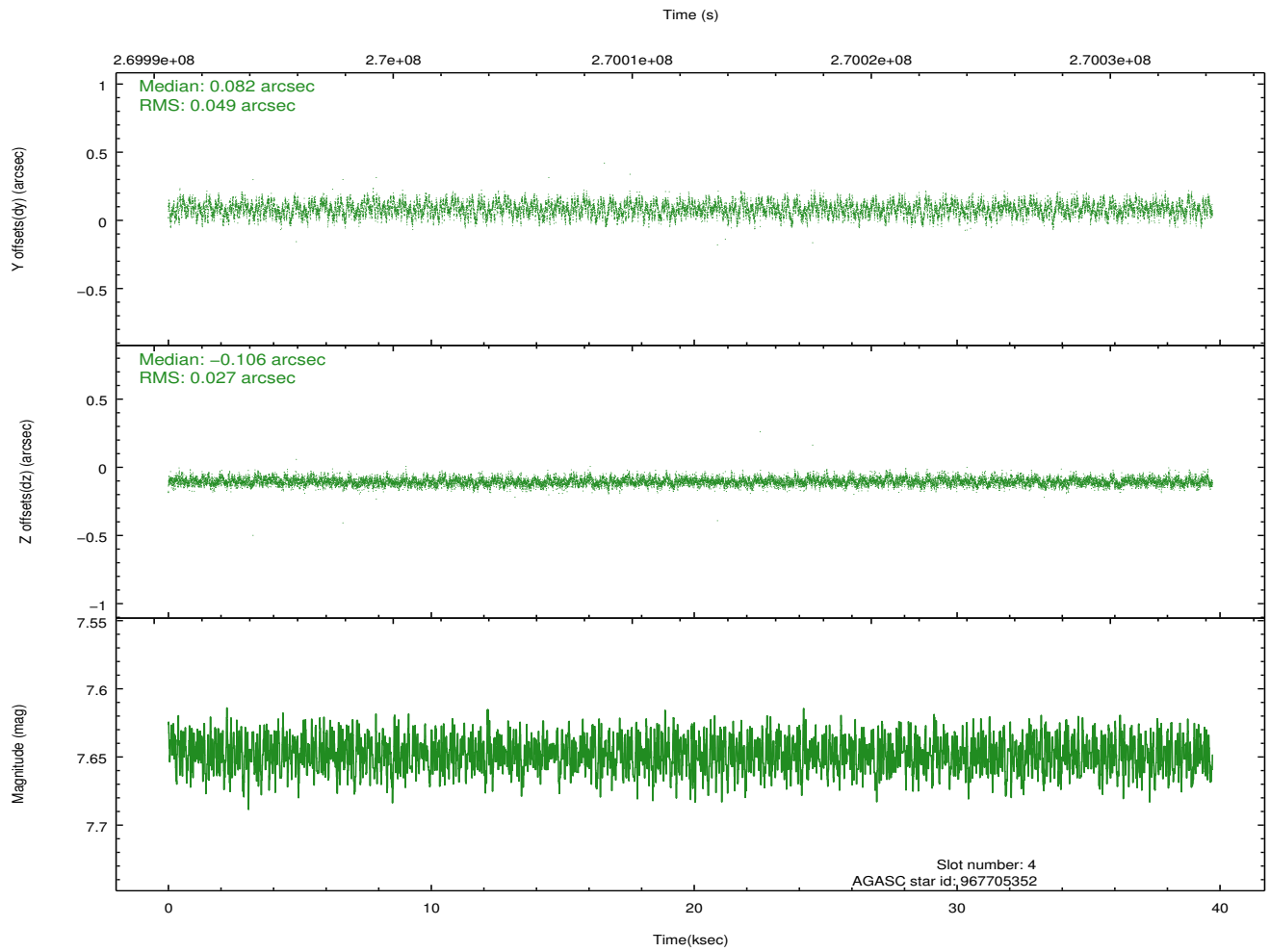
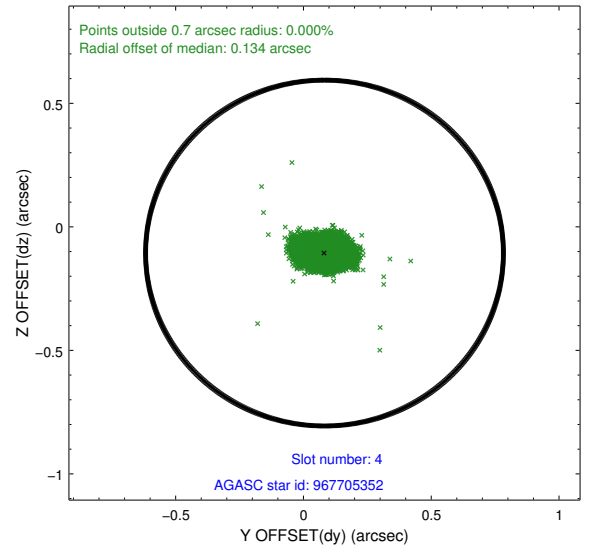
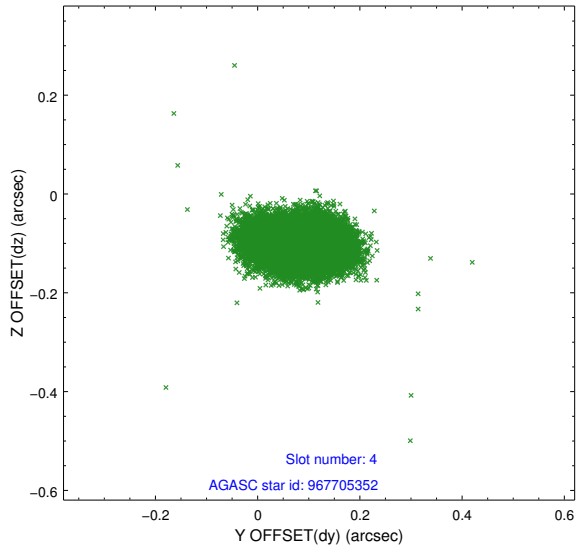
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	9686	0.117	0.001	0.006	0.012	0.000000	0.000000	935.58	-1809.14
1	FID	ACIS-S-2	7.09	9688	-0.070	-0.107	0.007	0.011	0.000000	0.000000	-760.50	-1813.84
2	FID	ACIS-S-5	7.24	9687	-0.071	0.111	0.006	0.012	0.000000	0.000000	-1813.78	88.47
3	GUIDE	967184256	7.52	19375	-0.044	0.052	0.058	0.090	262.701584	-33.609898	-905.96	-596.98
4	GUIDE	967705352	7.65	19368	0.082	-0.106	0.059	0.098	262.627740	-34.539041	2297.99	-1583.42
5	GUIDE	967839200	8.35	19369	0.170	0.026	0.070	0.111	263.484278	-34.076934	1278.28	1282.90
6	GUIDE	967705480	8.55	19366	-0.048	-0.039	0.069	0.116	262.356652	-33.760572	-614.62	-1727.10
7	GUIDE	967837824	7.49	19373	-0.158	0.067	0.045	0.074	263.710184	-34.276828	2137.71	1763.75

2.4 Star Slots

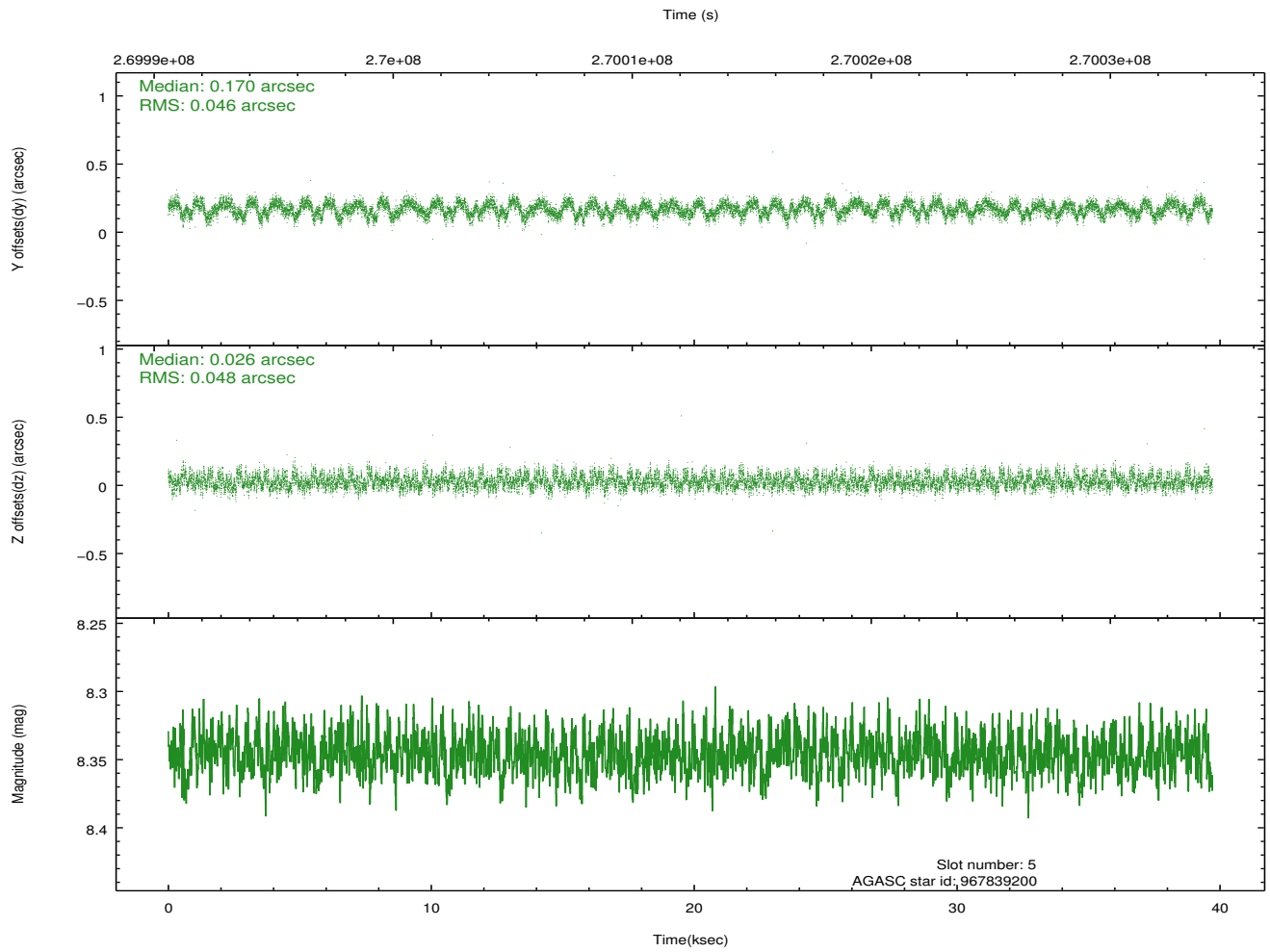
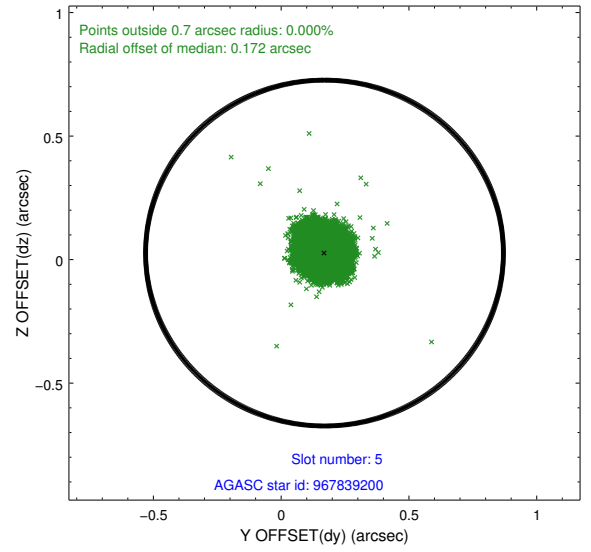
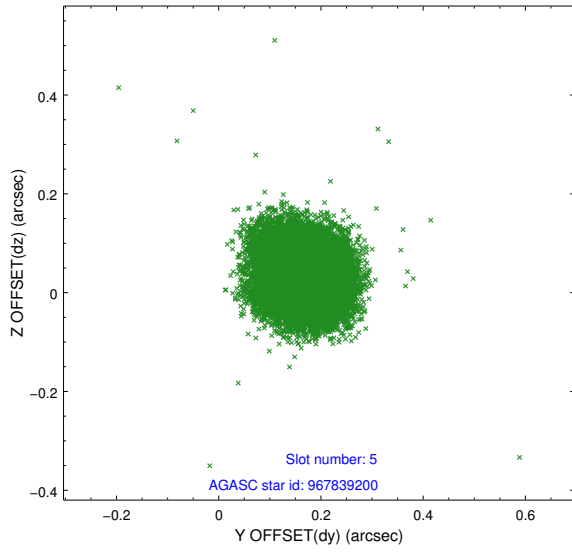
2.4.1 Slot 3



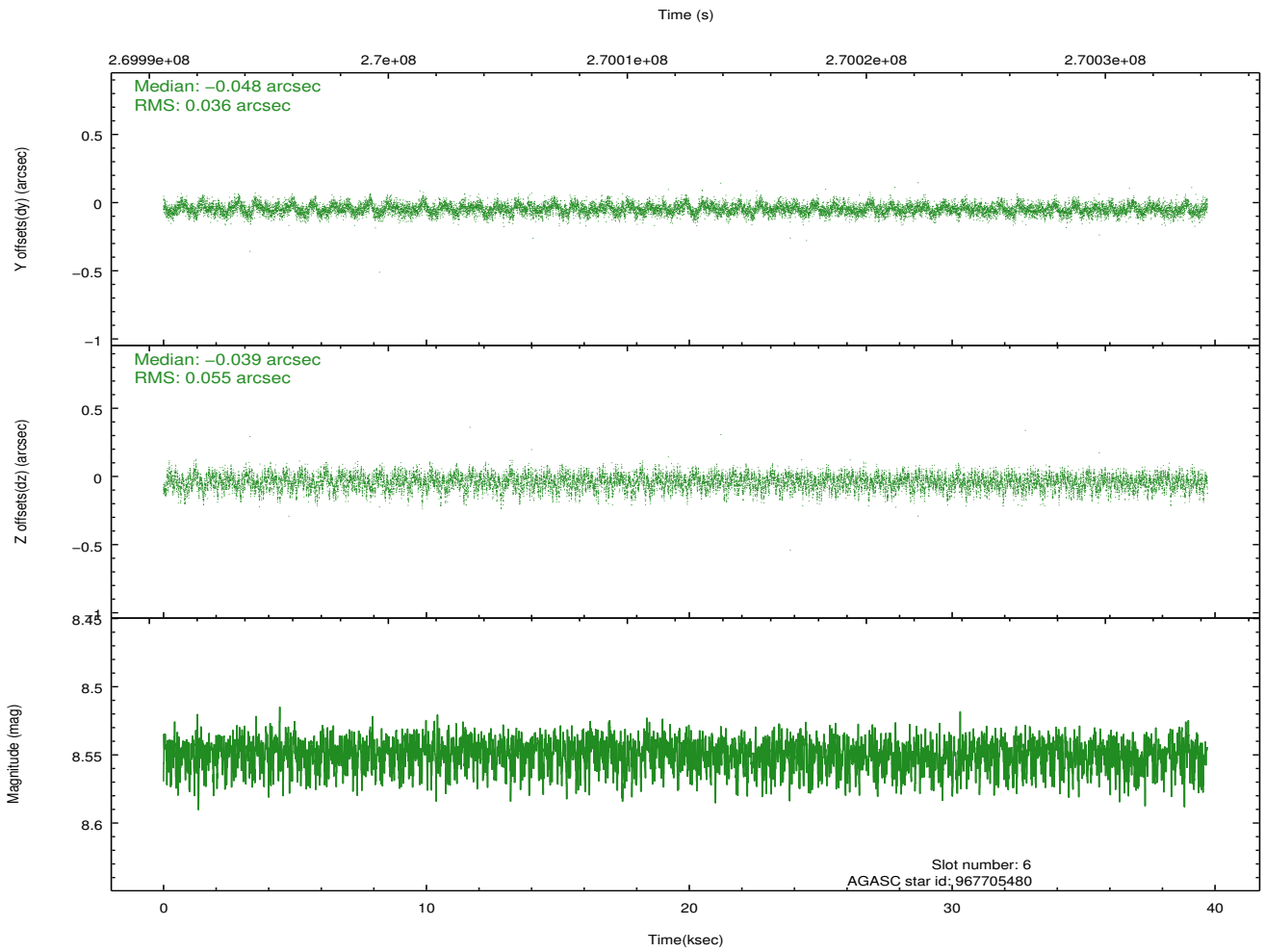
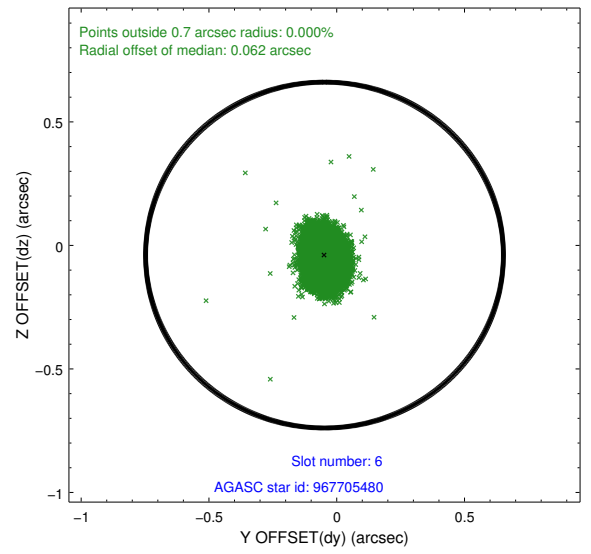
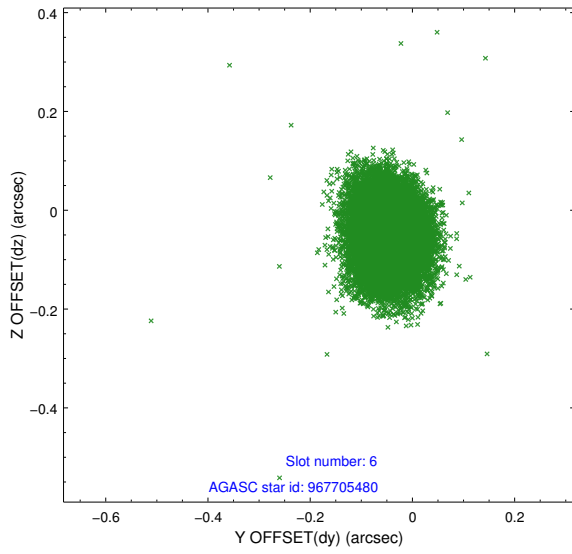
2.4.2 Slot 4



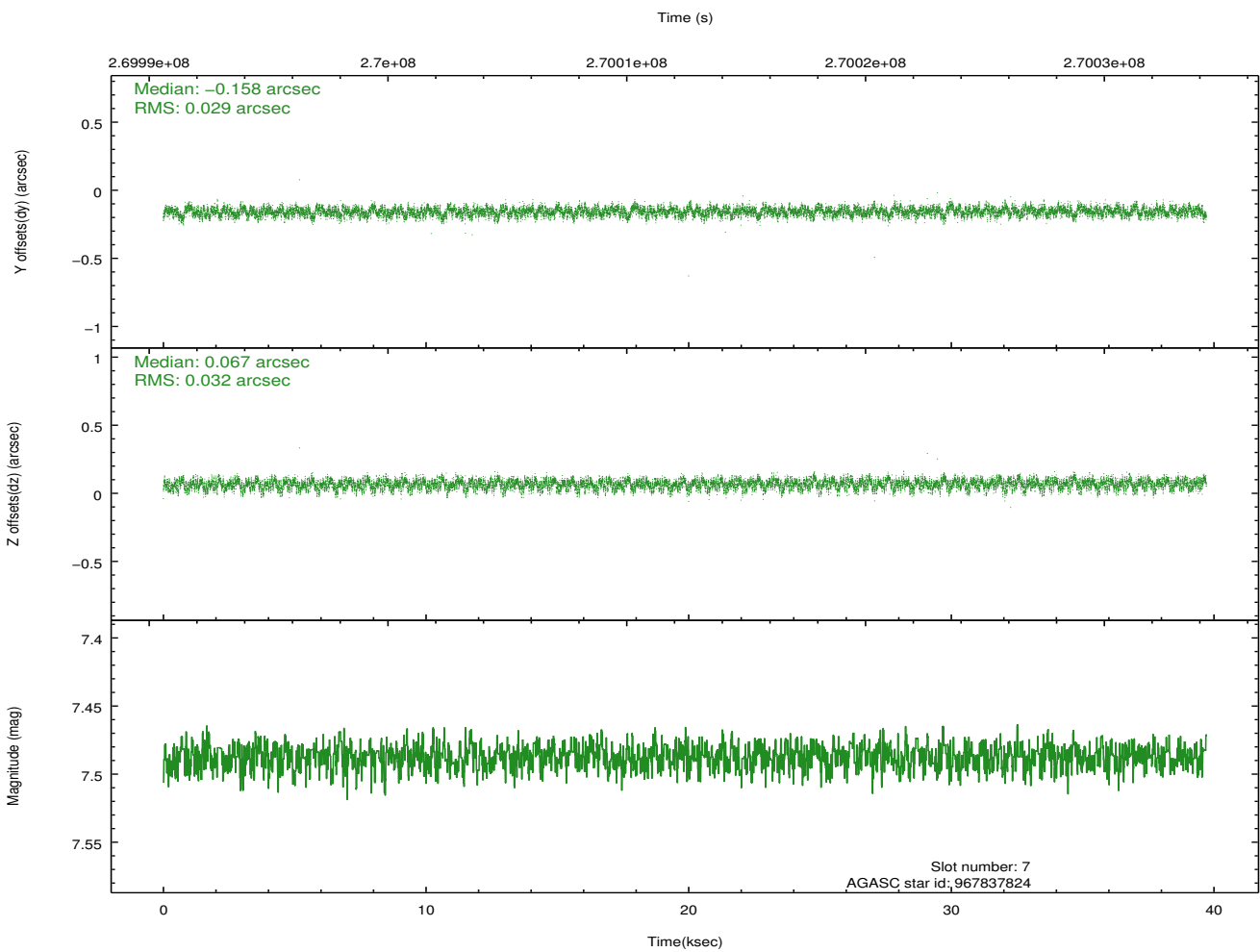
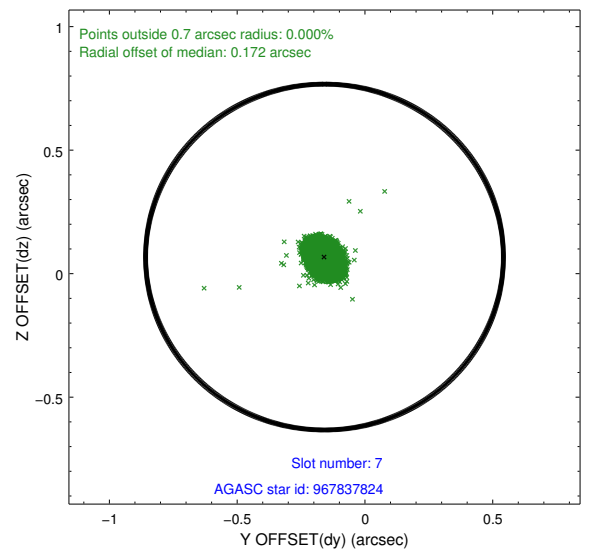
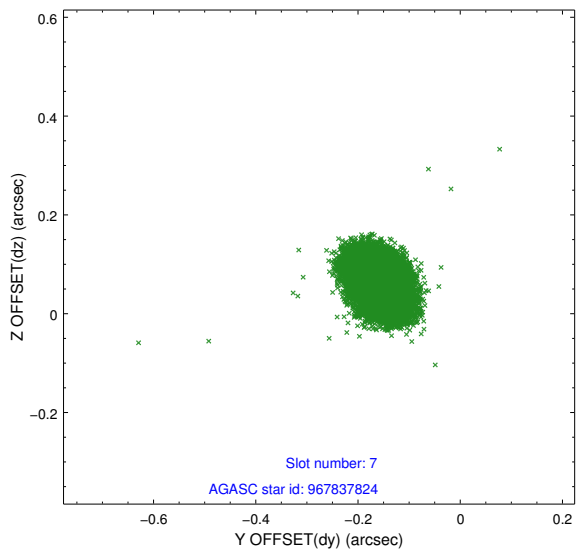
2.4.3 Slot 5



2.4.4 Slot 6

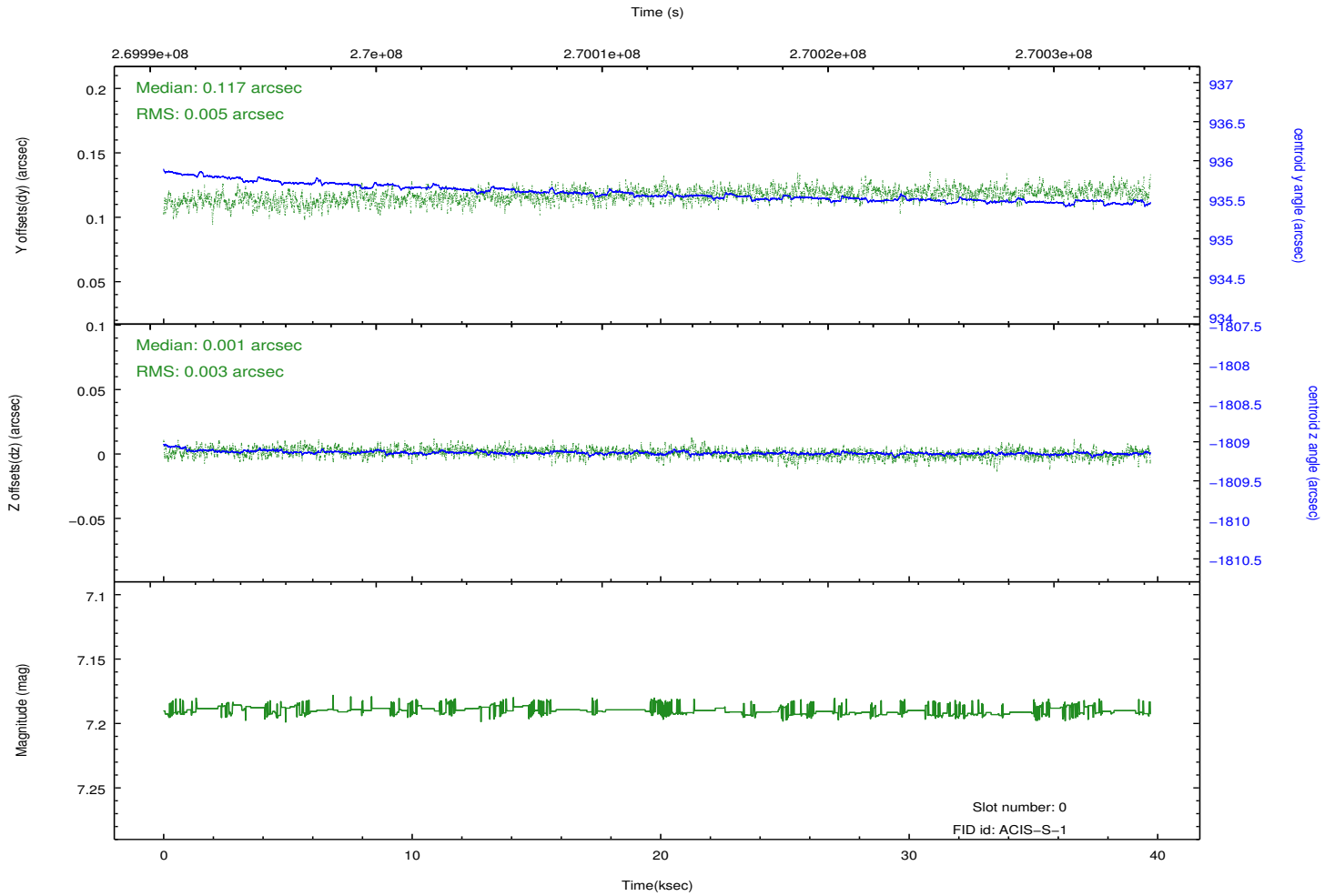
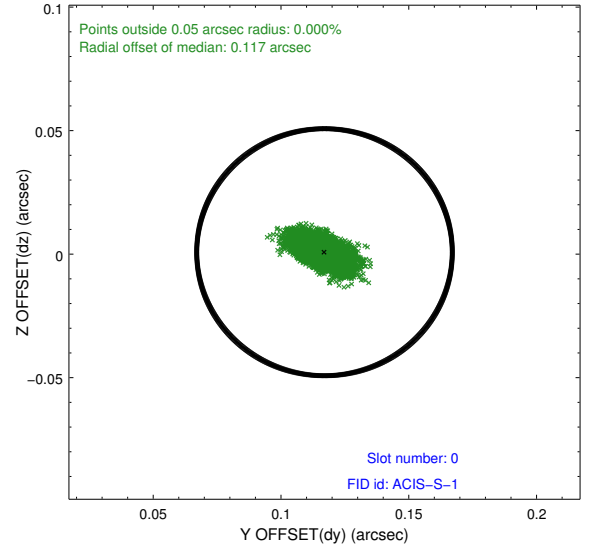
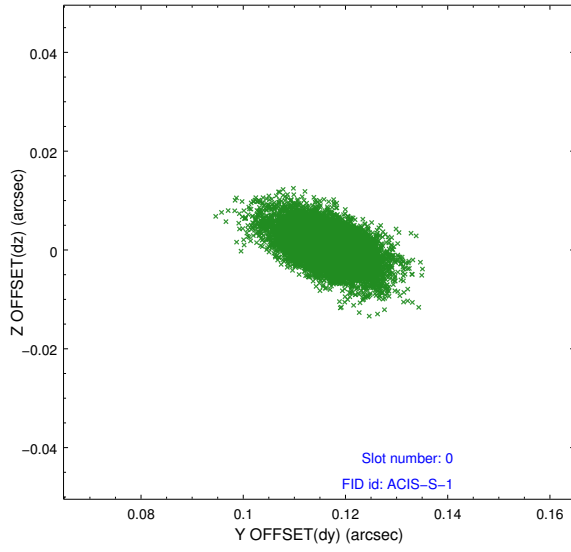


2.4.5 Slot 7

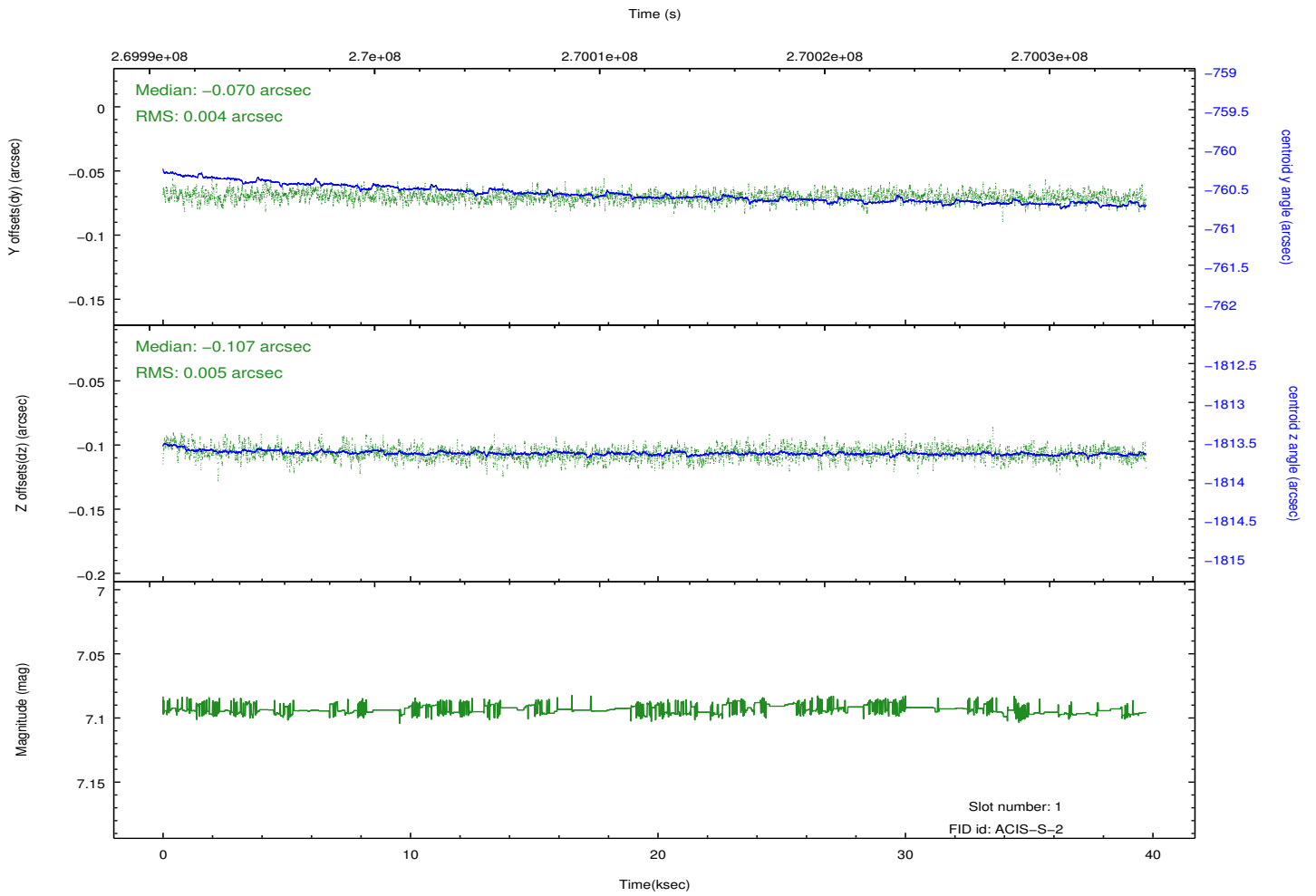
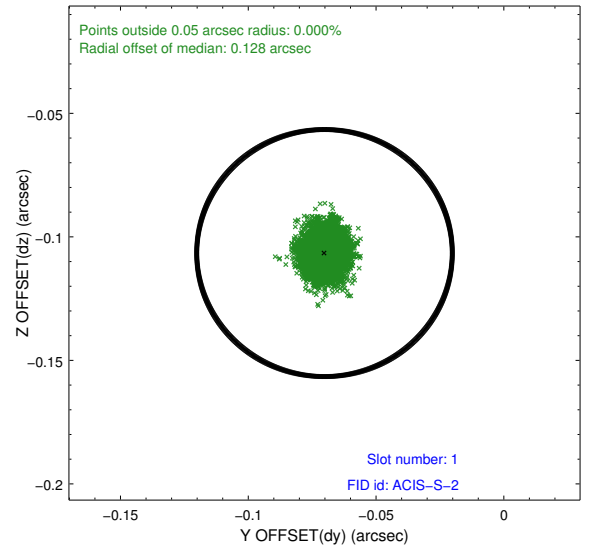
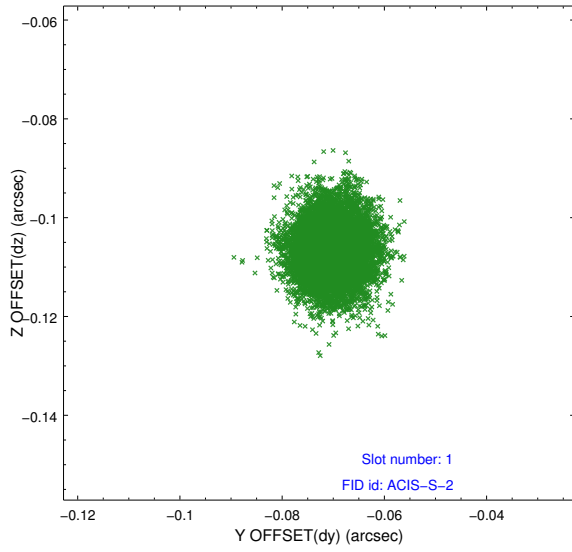


2.5 FID Slots

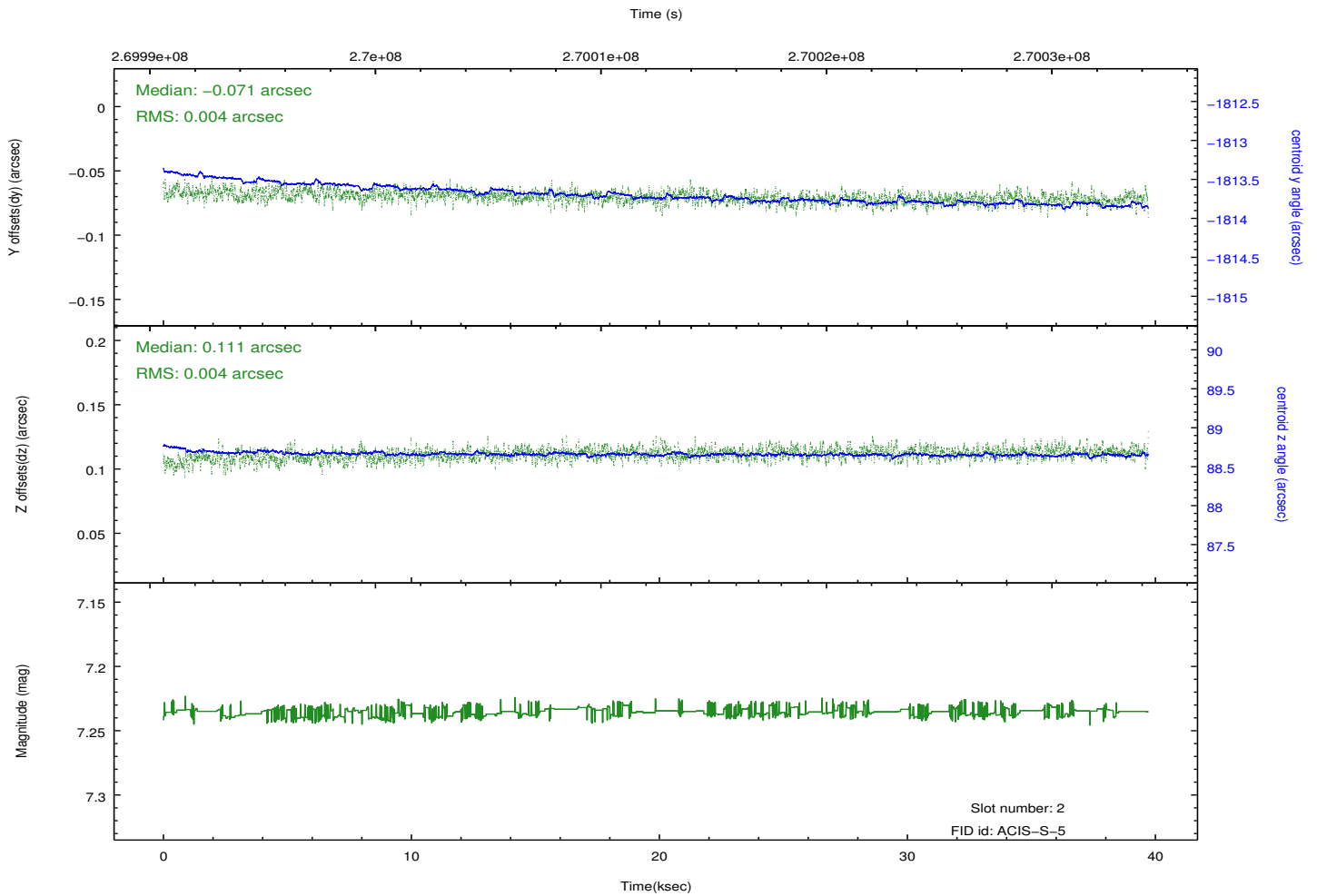
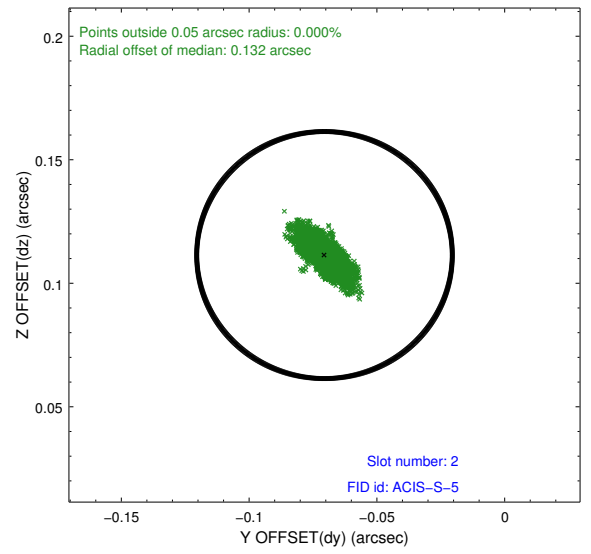
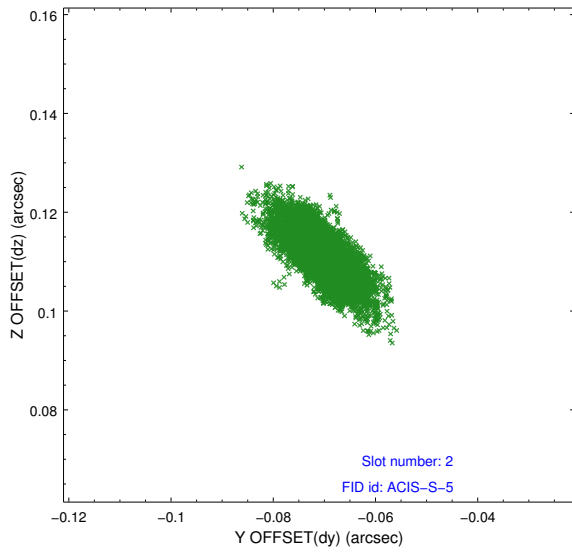
2.5.1 Slot 0



2.5.2 Slot 1

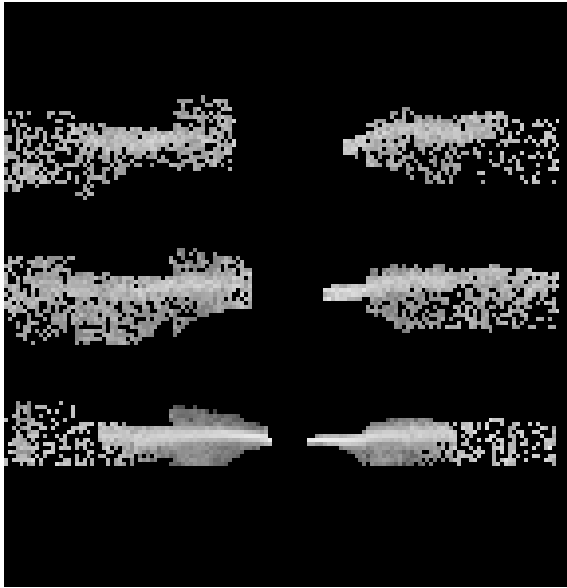


2.5.3 Slot 2

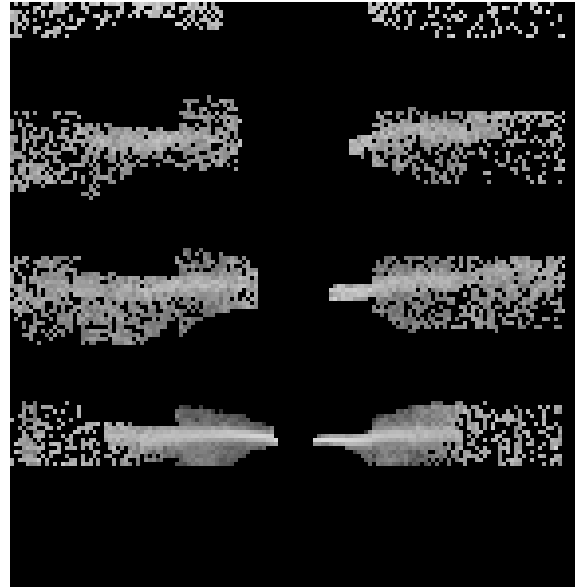


3 Gratings

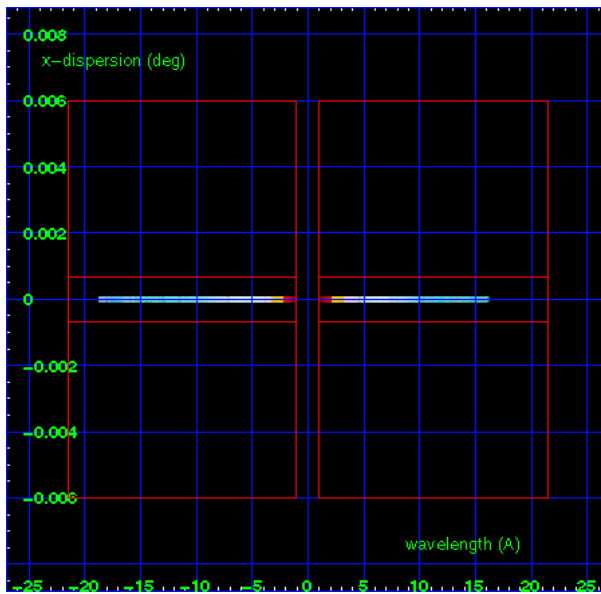
3.1 HEG Arm



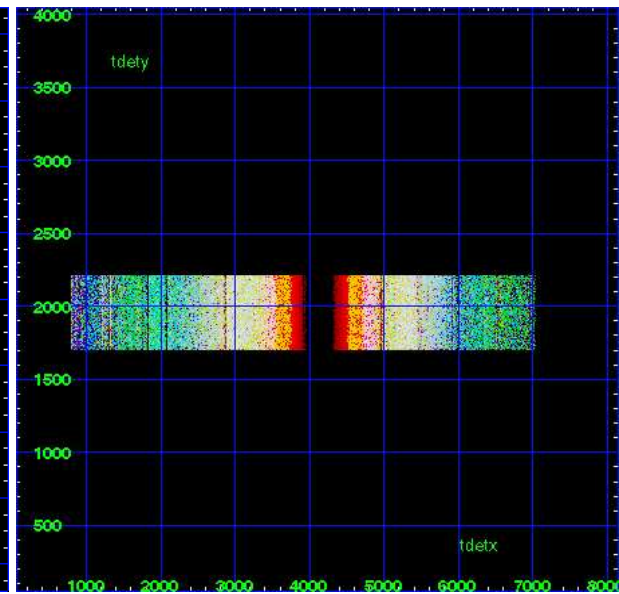
HEG Order Sort 123



HEG Order Sort ALL

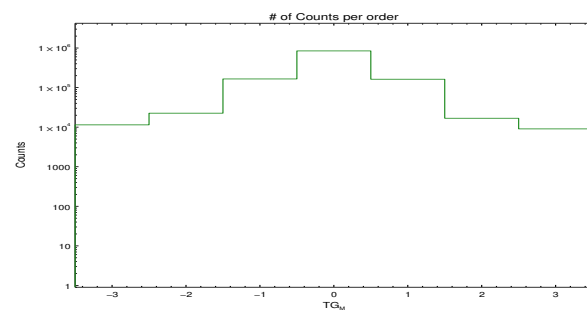


Spot Image HEG

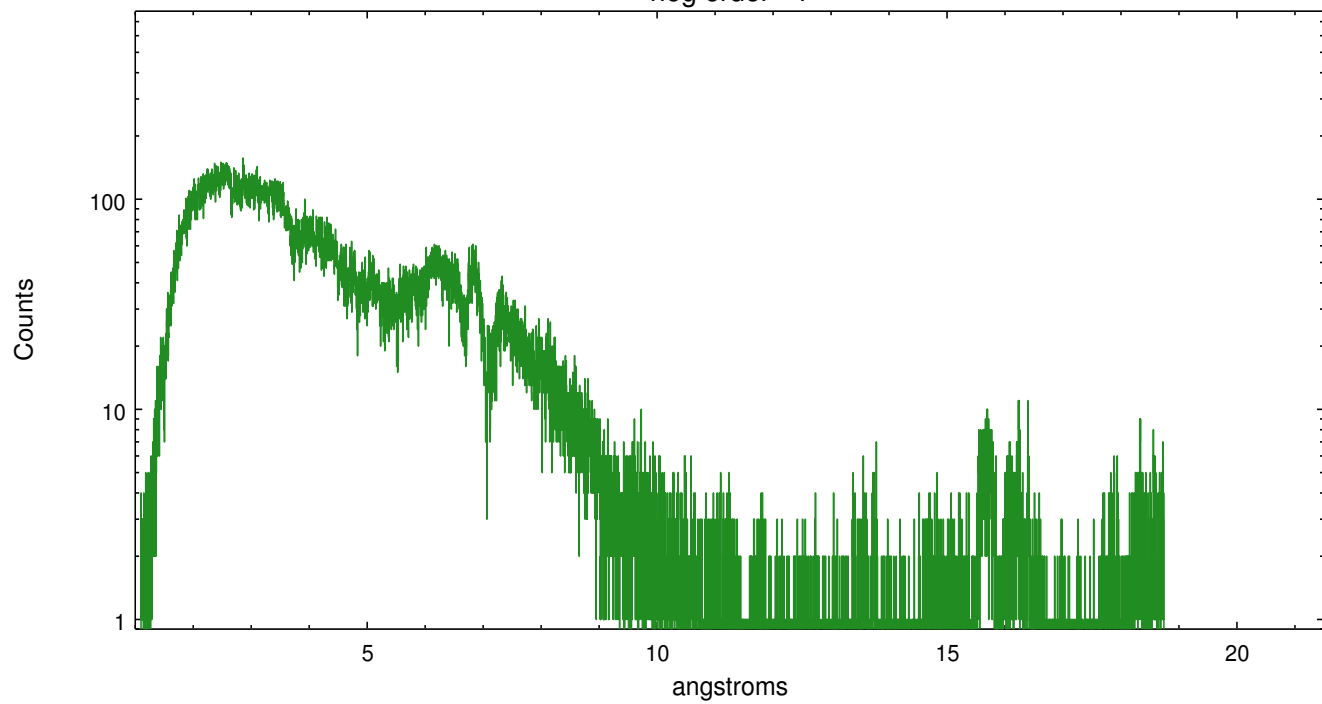


Full Detector HEG

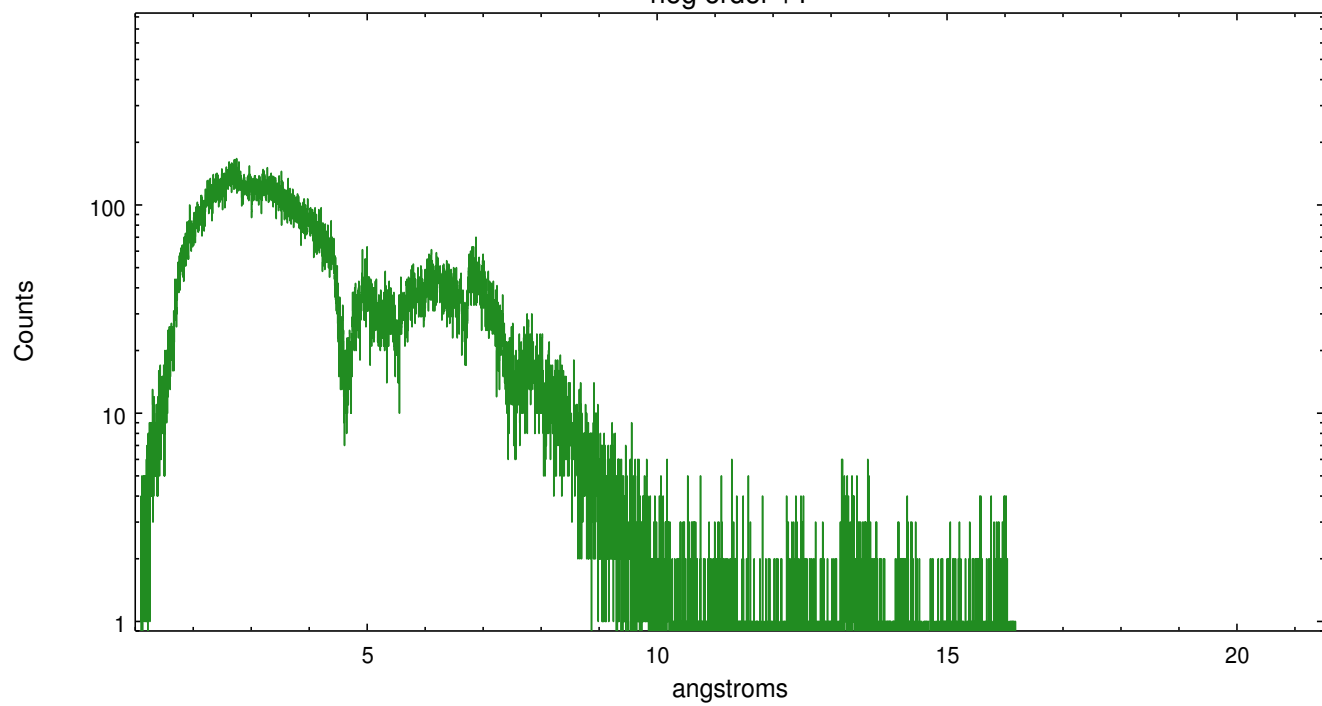
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Events	11434	22541	165403	845465	162523	16776	9045



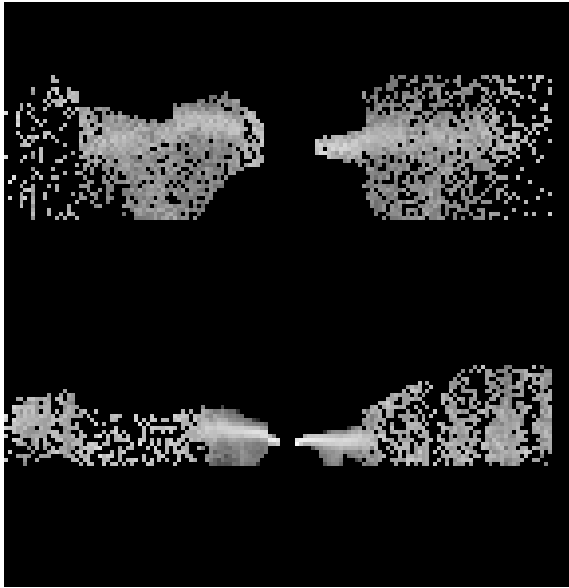
heg order -1



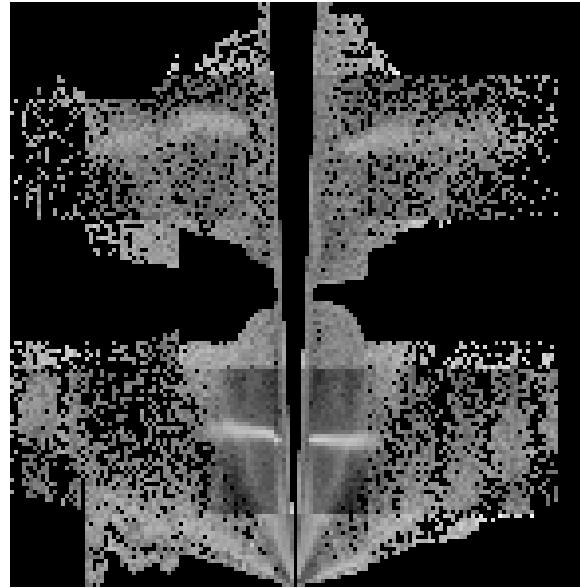
heg order +1



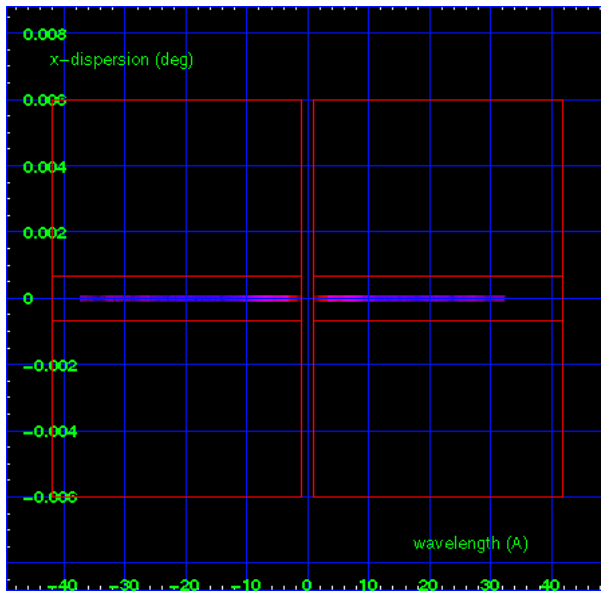
3.2 MEG Arm



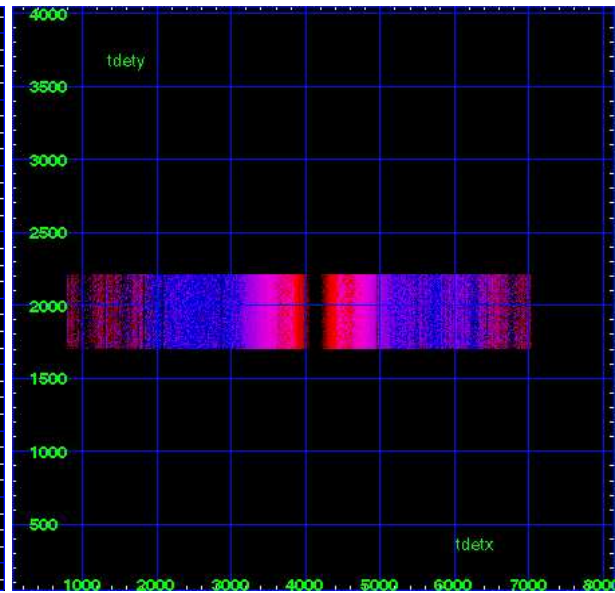
MEG Order Sort 123



MEG Order Sort ALL

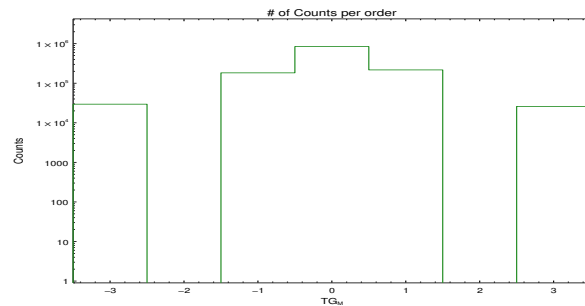


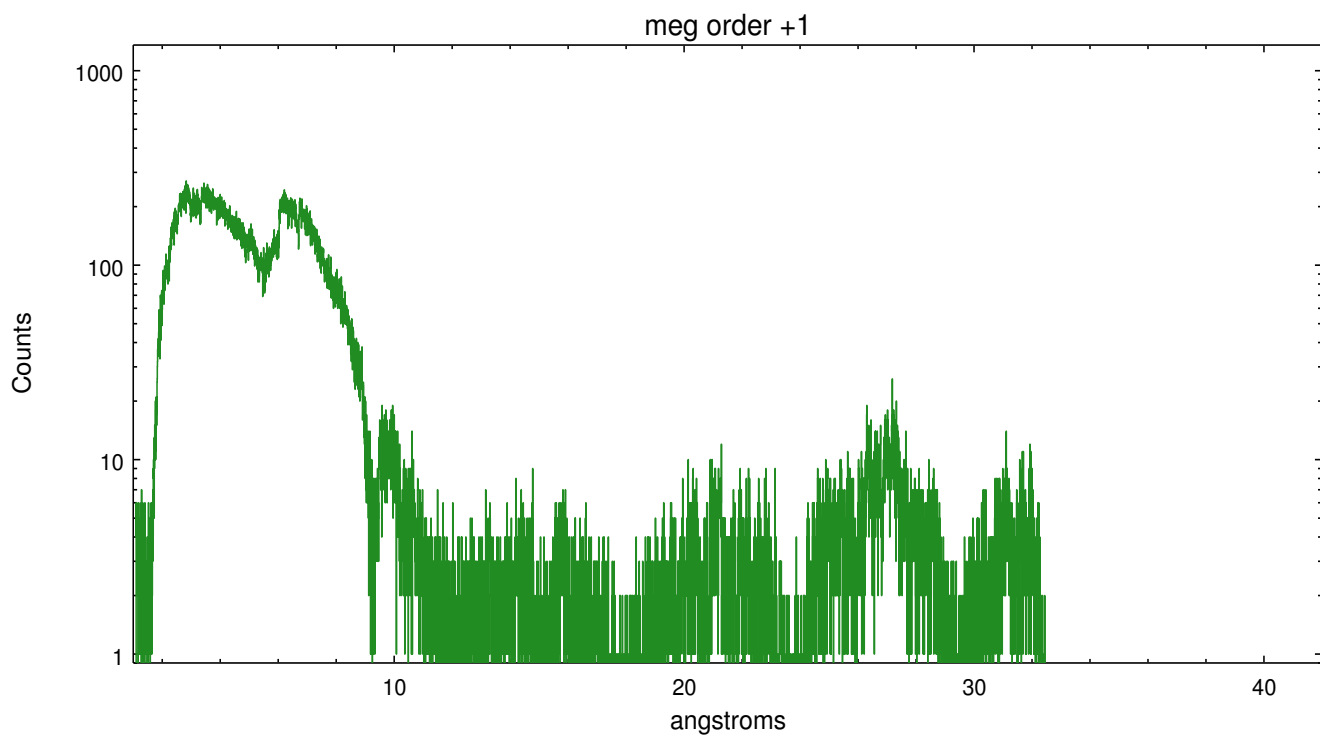
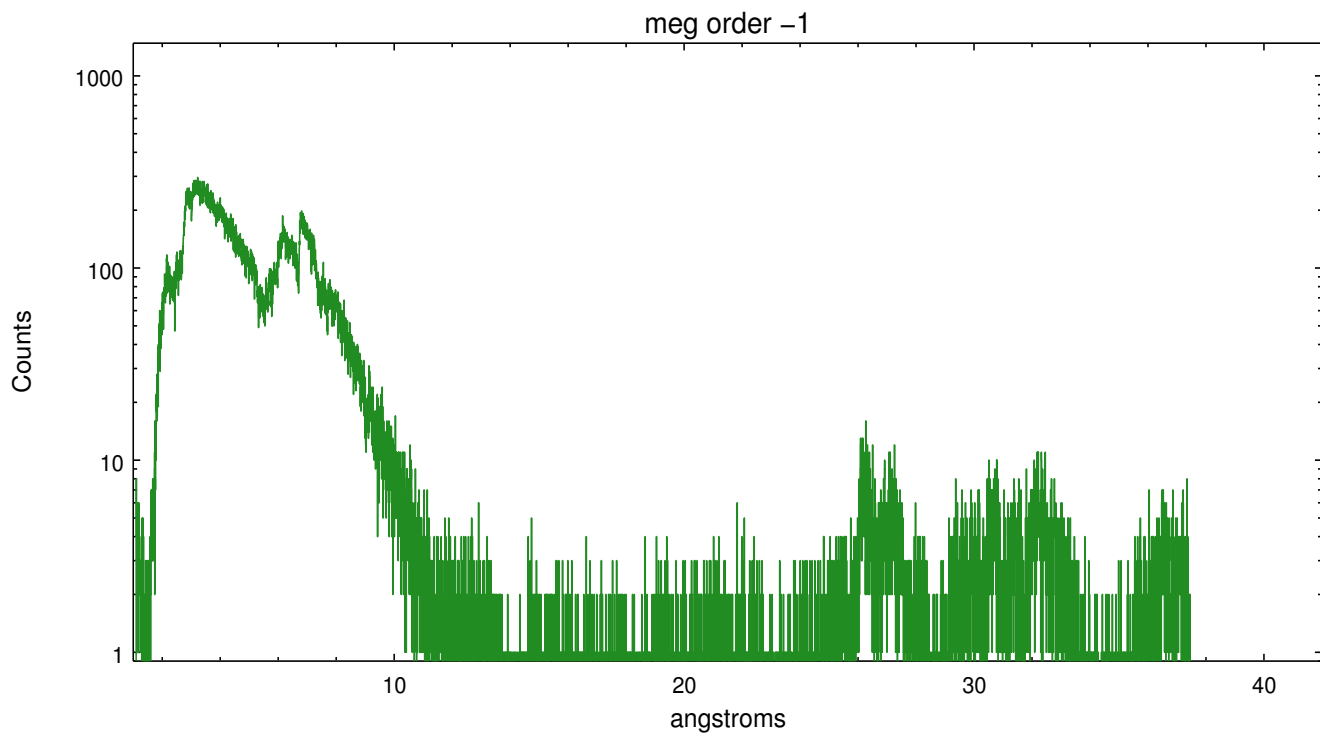
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	29529	0	182996	845465	217134	0	25954





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.7125

A.2 Comments