

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6628 - L2 Version 2
Chandra X-Ray Center

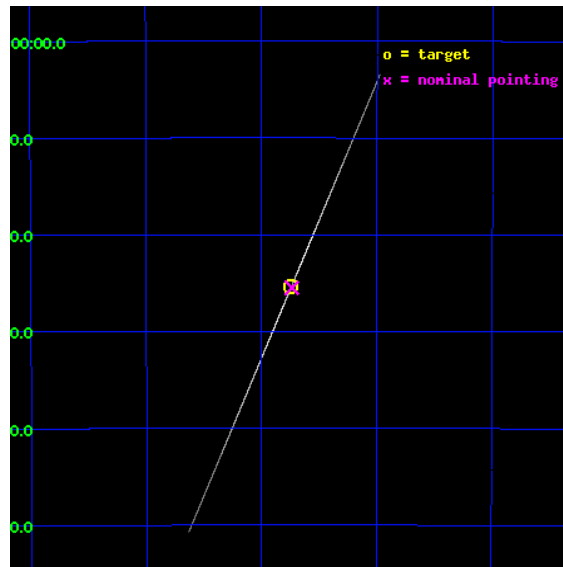
L2 Processing Date : Apr 5 2012

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1 Front

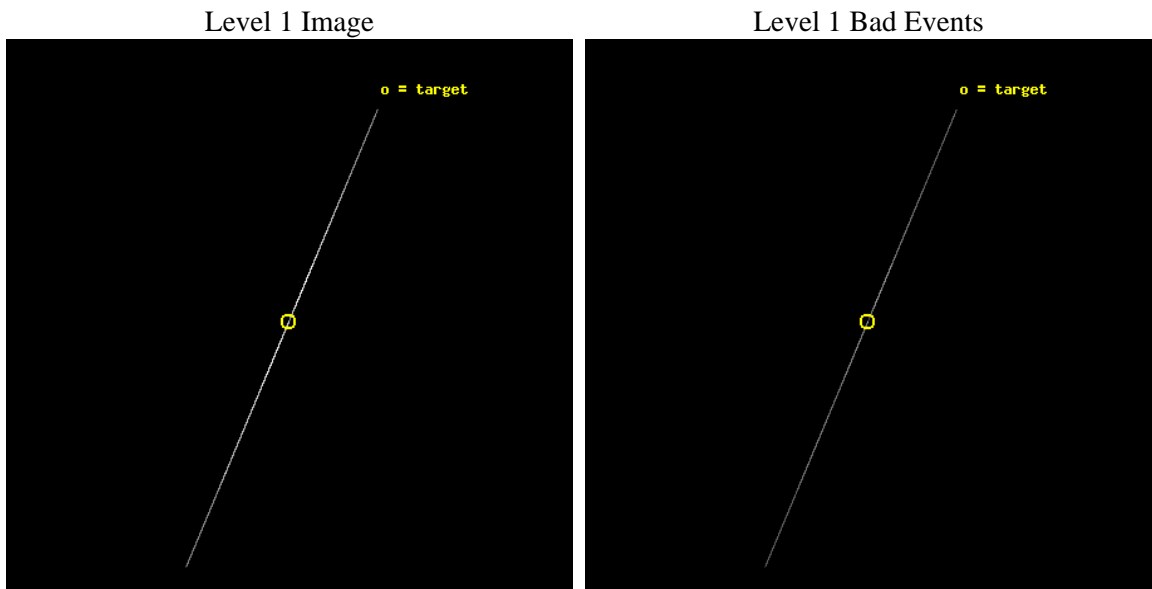
seq_num	400533	Sequence number
obs_id	6628	Observation id
title	CHAZSS: The Chandra HETGS Atoll/Z Spectroscopic Survey	Proposal ti
observer	Dr Jon Miller	Principal investigator
object	GX 349+2	Source name
ra_targ	256.435417	Observer's specified target RA [deg]
dec_targ	-36.423056	Observer's specified target Dec [deg]
ra_nom	256.43414011672	Nominal RA [deg]
dec_nom	-36.424889968445	Nominal Dec [deg]
roll_nom	292.91182035438	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12591.5	Sum of GTIs [s]
livetime	12542.314453125	Livetime [s]
ontime4	12591.5	Sum of GTIs [s]
ontime5	12591.5	Sum of GTIs [s]
ontime6	12579.831218988	Sum of GTIs [s]
ontime7	12591.5	Sum of GTIs [s]
ontime8	12591.5	Sum of GTIs [s]
ontime9	12591.5	Sum of GTIs [s]
l2events	3780599	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	12500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	12591.5	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	12591.5	Sum of GTIs [s]
date	2012-04-04T20:09:25	Date and time of file creation	ontime5	12591.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12579.831218988	Sum of GTIs [s]
			ontime7	12591.5	Sum of GTIs [s]
			ontime8	12591.5	Sum of GTIs [s]
			ontime9	12591.5	Sum of GTIs [s]
			l1events	4110196	Number of level 1 events

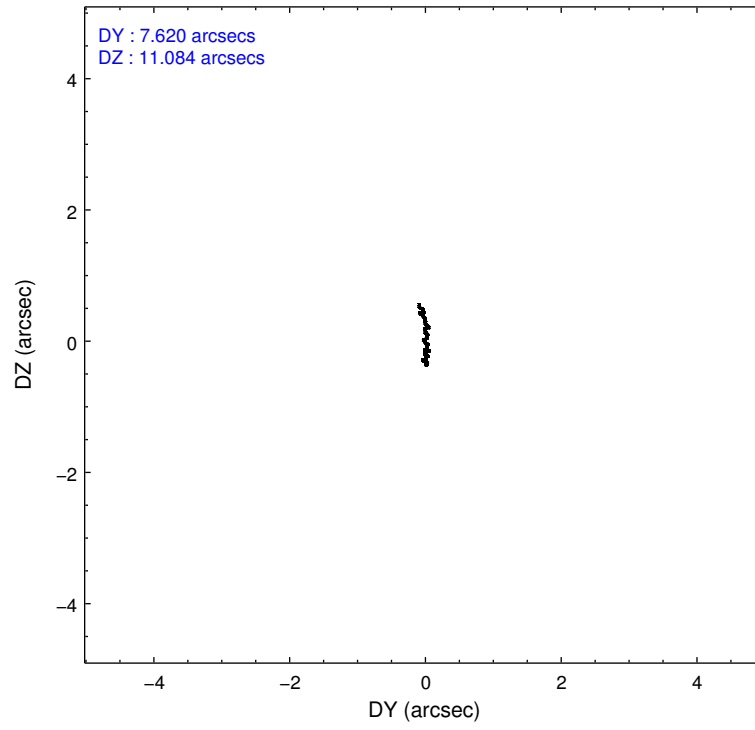
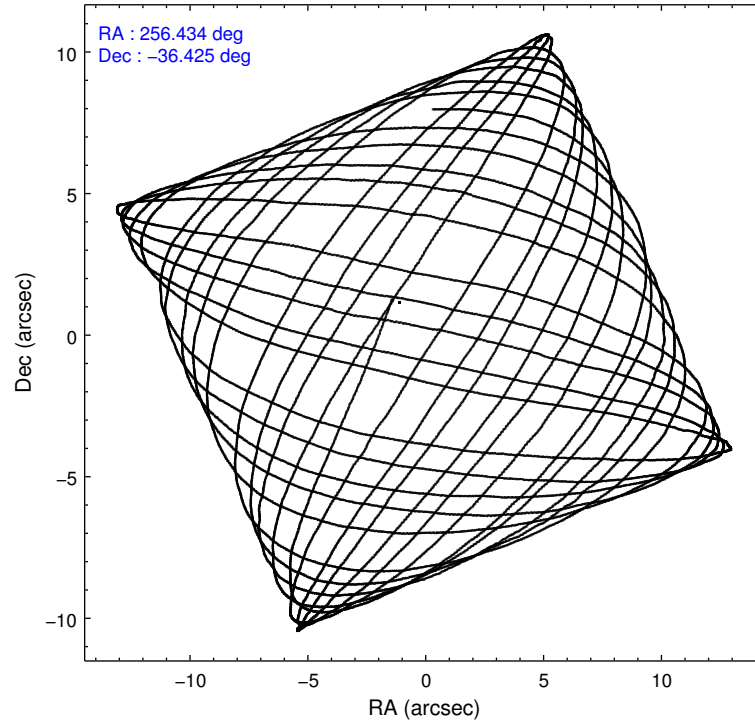
2.1.3 Events

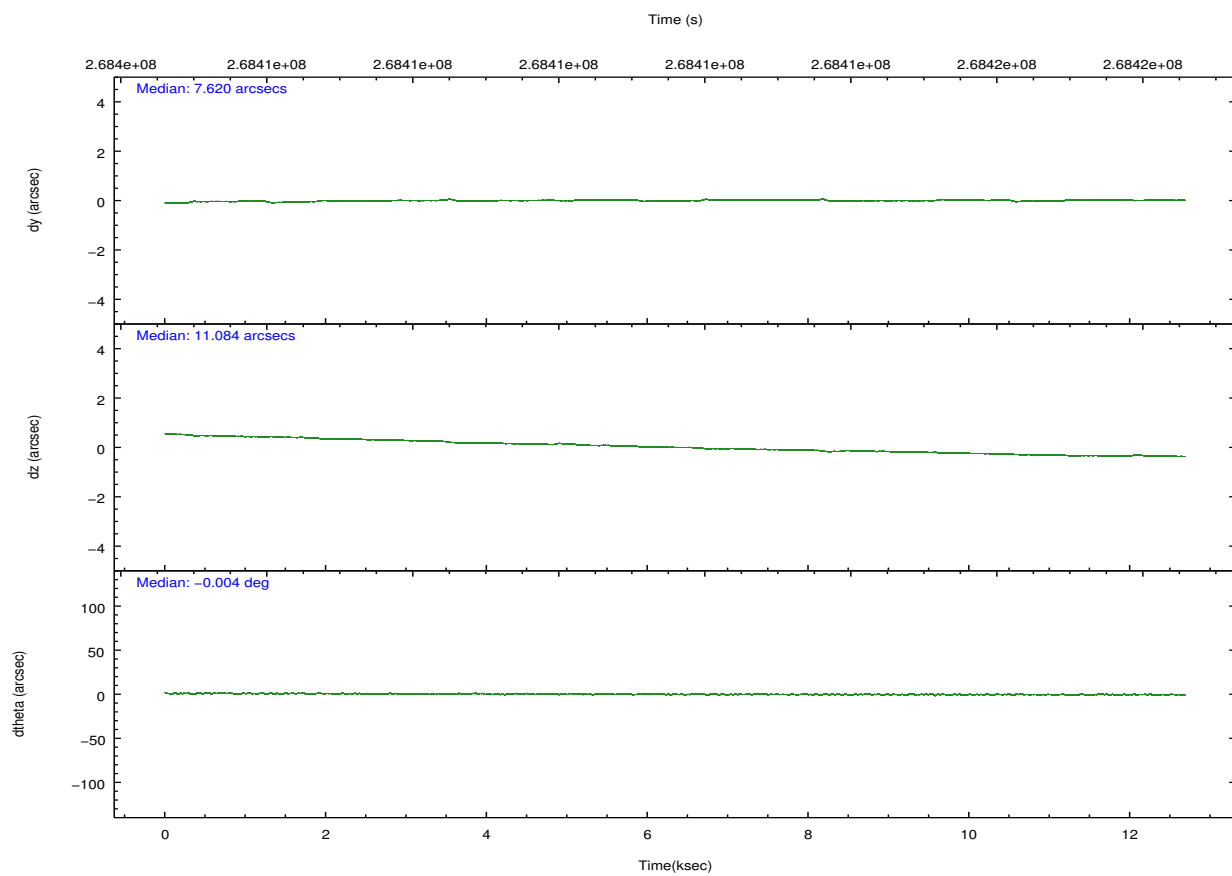
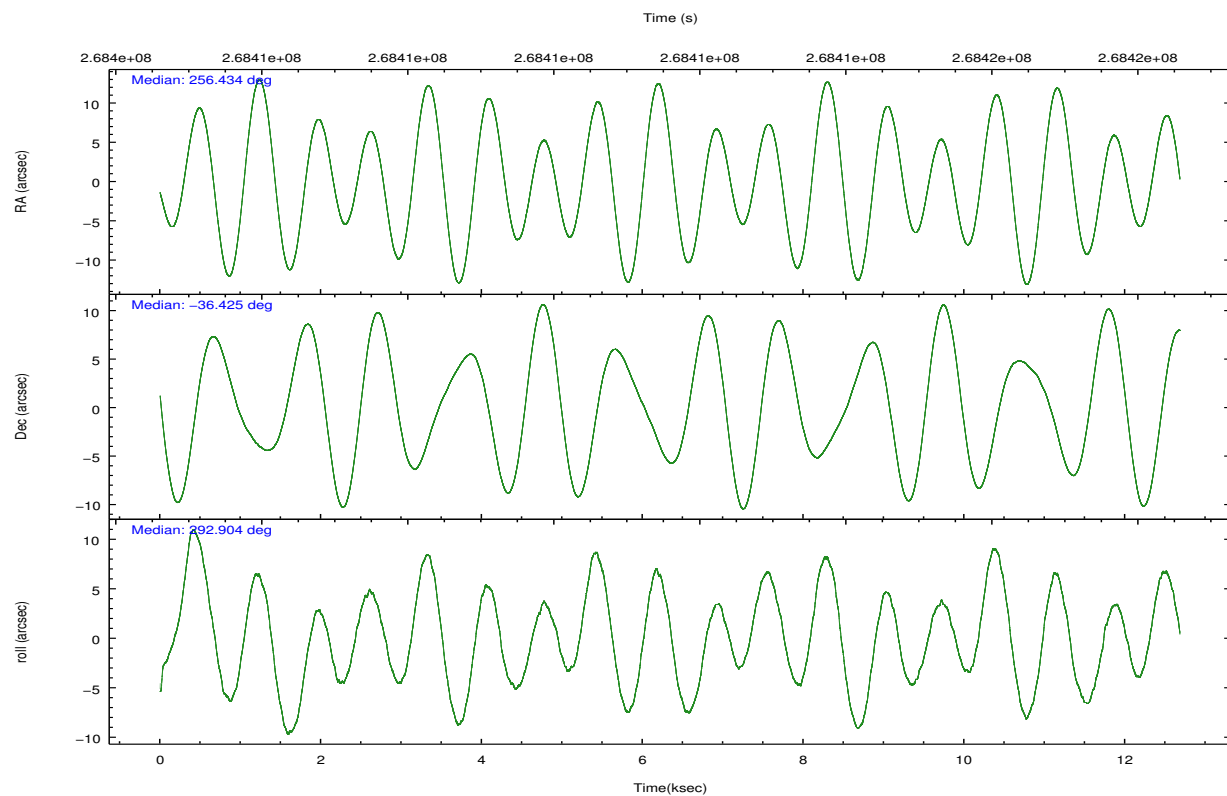
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	58996	343200	1449389	1691325	485711	81575	grade 0 events	3702	65740	407896	250865	283788	8921
rejected events	4647	12118	15331	32134	9764	5369		6%	19%	28%	14%	58%	10%
rejected %	7%	3%	1%	1%	2%	6%	grade 1 events	98	173	1457	2049	1050	118
								0%	0%	0%	0%	0%	0%
							grade 2 events	37574	132547	848758	515099	131942	51886
								63%	38%	58%	30%	27%	63%
							grade 3 events	2824	13409	22017	136058	16422	2802
								4%	3%	1%	8%	3%	3%
							grade 4 events	2893	13184	22164	134782	15987	3018
								4%	3%	1%	7%	3%	3%
							grade 5 events	4548	11873	13499	29740	8604	5235
								7%	3%	0%	1%	1%	6%
							grade 6 events	7357	106274	133598	622732	27918	9595
								12%	30%	9%	36%	5%	11%
							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_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	256.406840	256.4341401167202	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.408722	-36.42488996844496	Alternating exposures requested	N	N
[deg] Pointing Roll	292.738991	292.9118203543802	[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	-182.632523	-182.6398635053184			
[mm] SIM translation stage offset	-7.5	-7.49265907768941			
[s] Observation start time (MET)	268405435.184000	268404801.54587			
Observation start date	2006-07-04T13:02:50	2006-07-04T12:53:21			
[s] Observation end time (MET)	268417935.184000	268418712.33402			
Observation end date	2006-07-04T16:31:10	2006-07-04T16:45:12			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



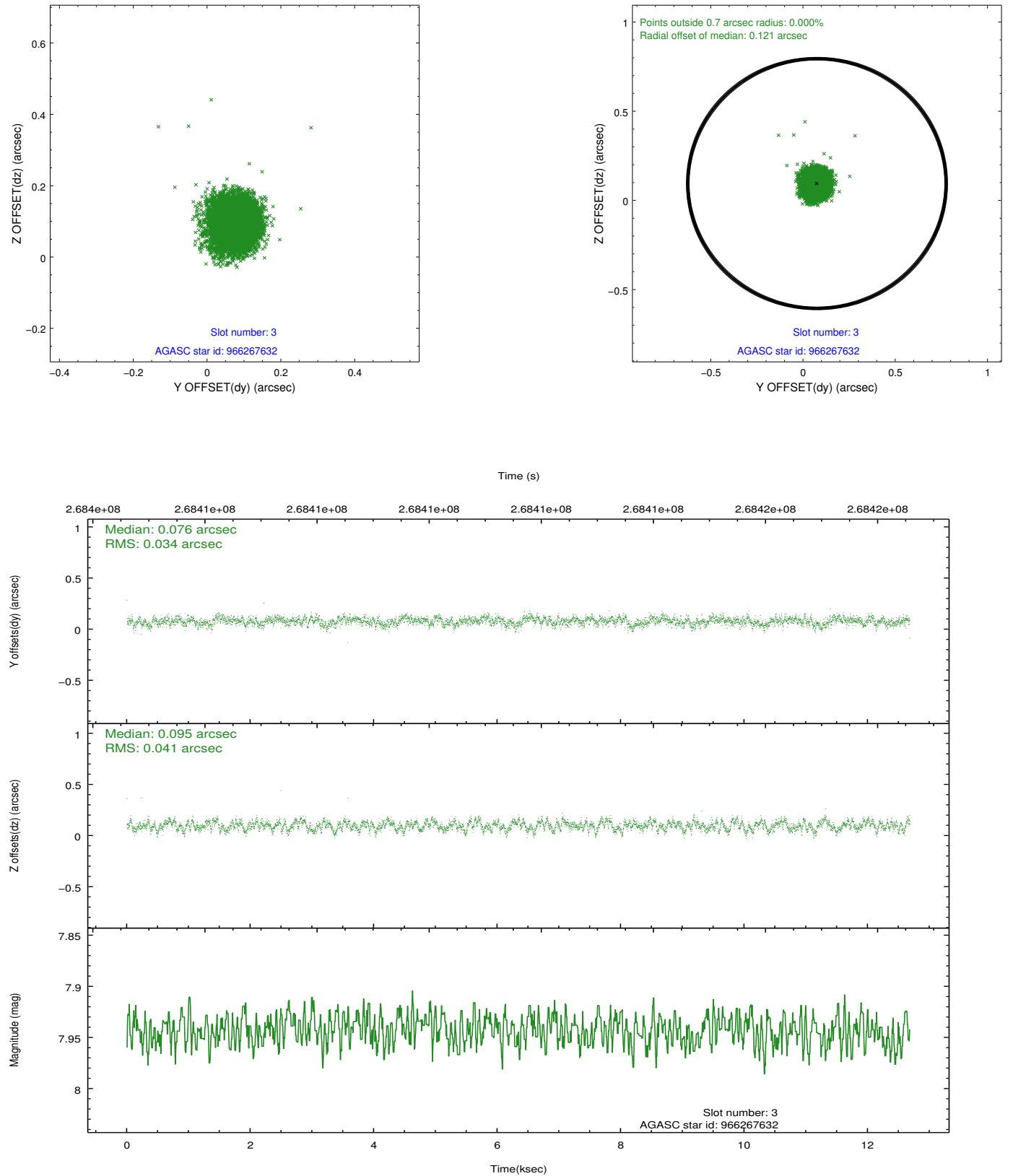


Slot Statistics

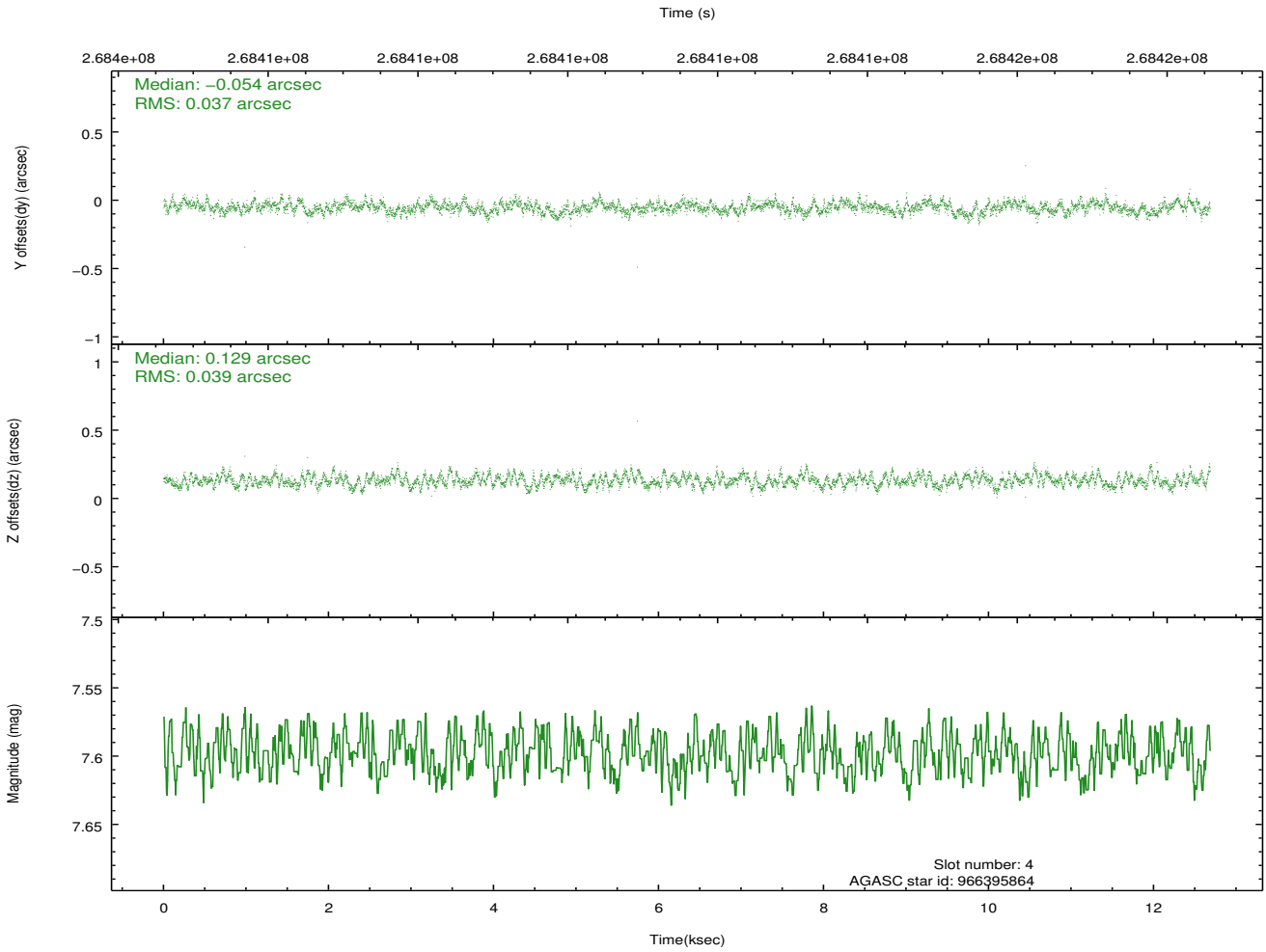
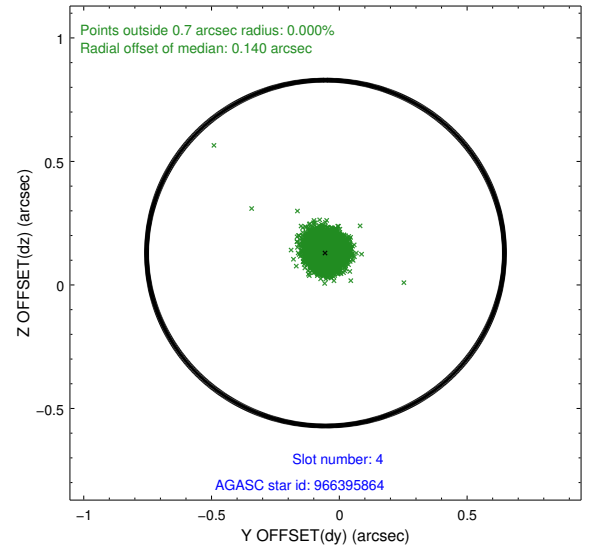
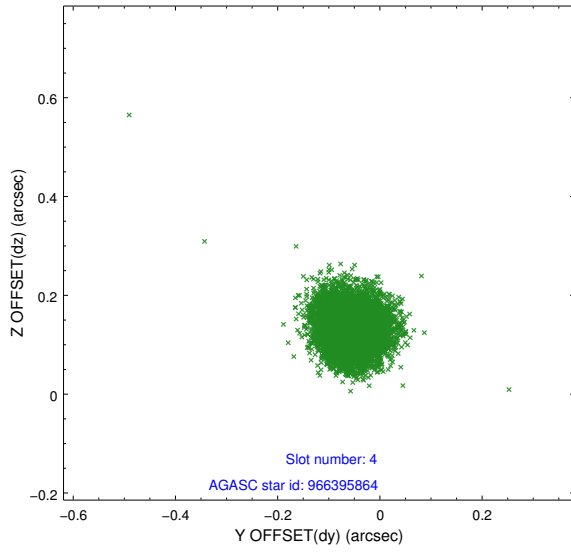
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	3094	-0.096	-0.092	0.014	0.026	0.000000	0.000000	-759.95	-1886.85
1	FID	ACIS-S-4	7.18	3094	0.108	0.071	0.007	0.012	0.000000	0.000000	2153.36	21.33
2	FID	ACIS-S-5	7.23	3093	-0.044	0.029	0.012	0.021	0.000000	0.000000	-1812.24	15.40
3	GUIDE	966267632	7.94	6187	0.076	0.095	0.056	0.089	256.428991	-36.740525	1126.64	-402.41
4	GUIDE	966395864	7.60	6186	-0.054	0.129	0.057	0.090	256.670769	-36.077904	-800.48	1168.26
5	GUIDE	966396120	7.84	6188	-0.067	-0.148	0.060	0.091	256.737004	-36.720258	1404.13	444.93
6	GUIDE	966401448	7.81	6120	-0.056	0.033	0.048	0.078	256.771484	-35.758991	-1743.62	1885.86
7	GUIDE	966268912	8.85	6184	0.102	-0.106	0.085	0.139	255.909665	-37.161225	1950.89	-2363.58

2.4 Star Slots

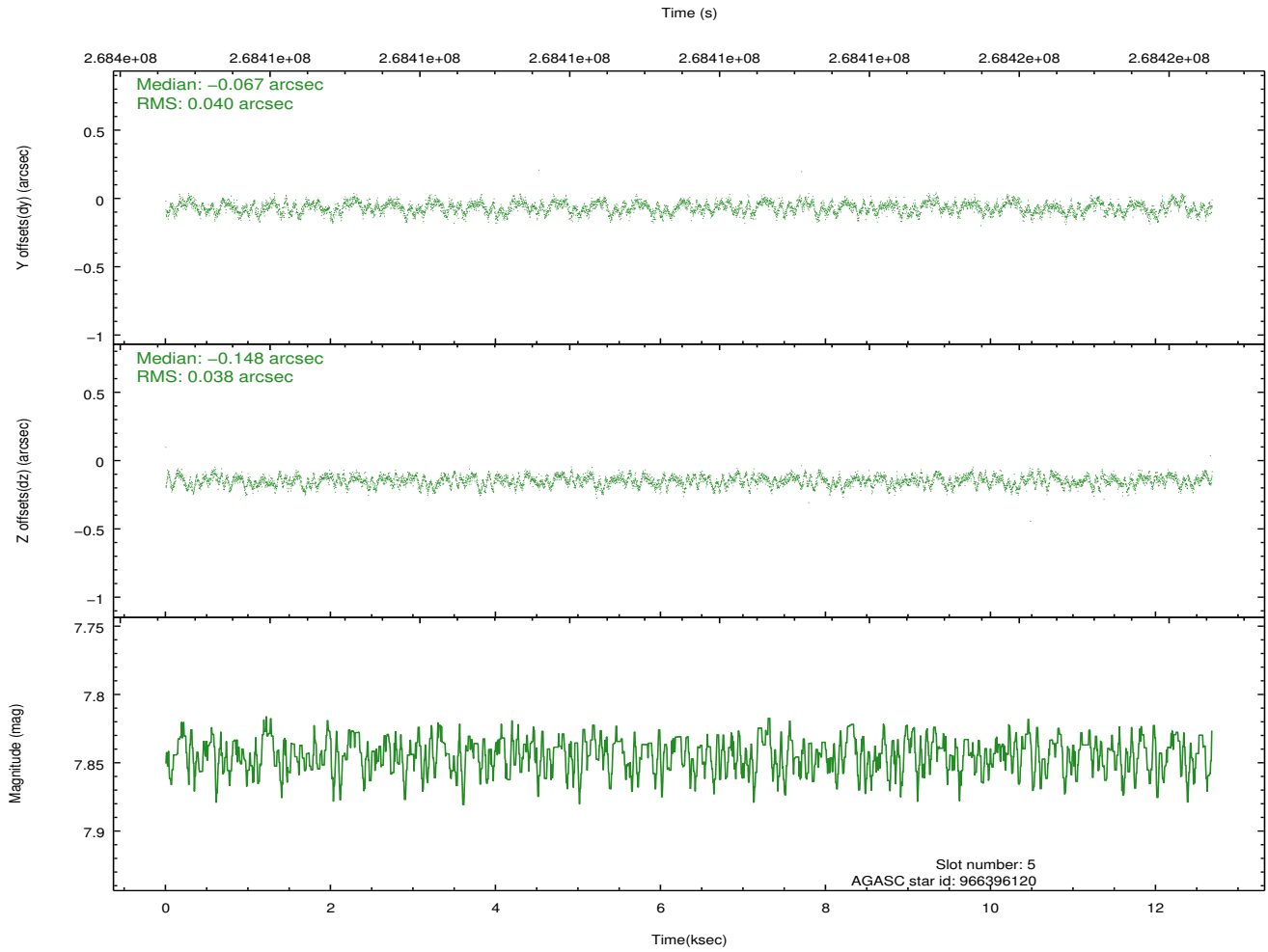
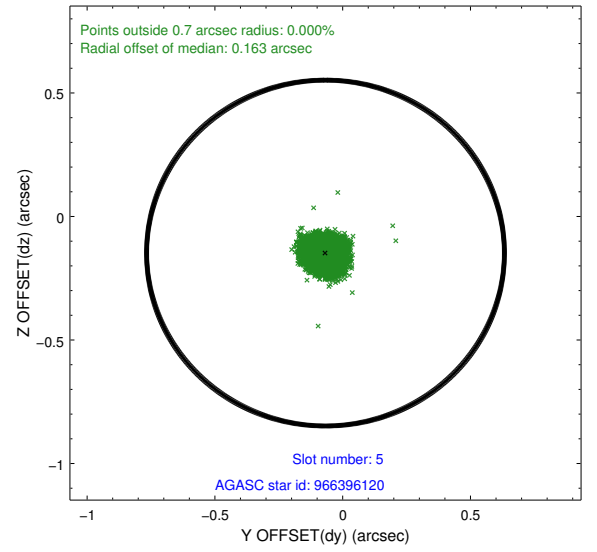
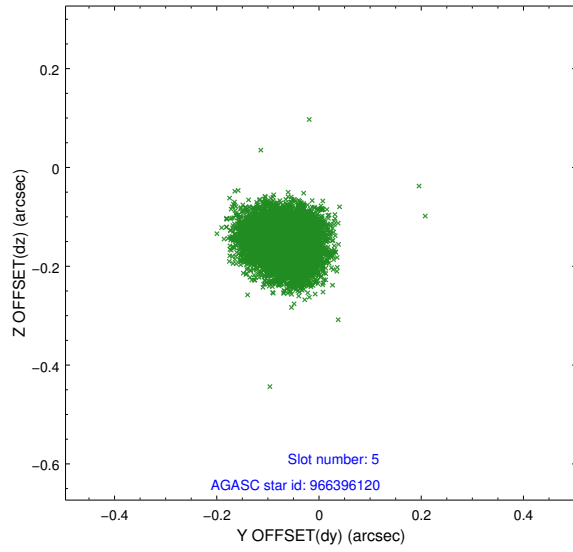
2.4.1 Slot 3



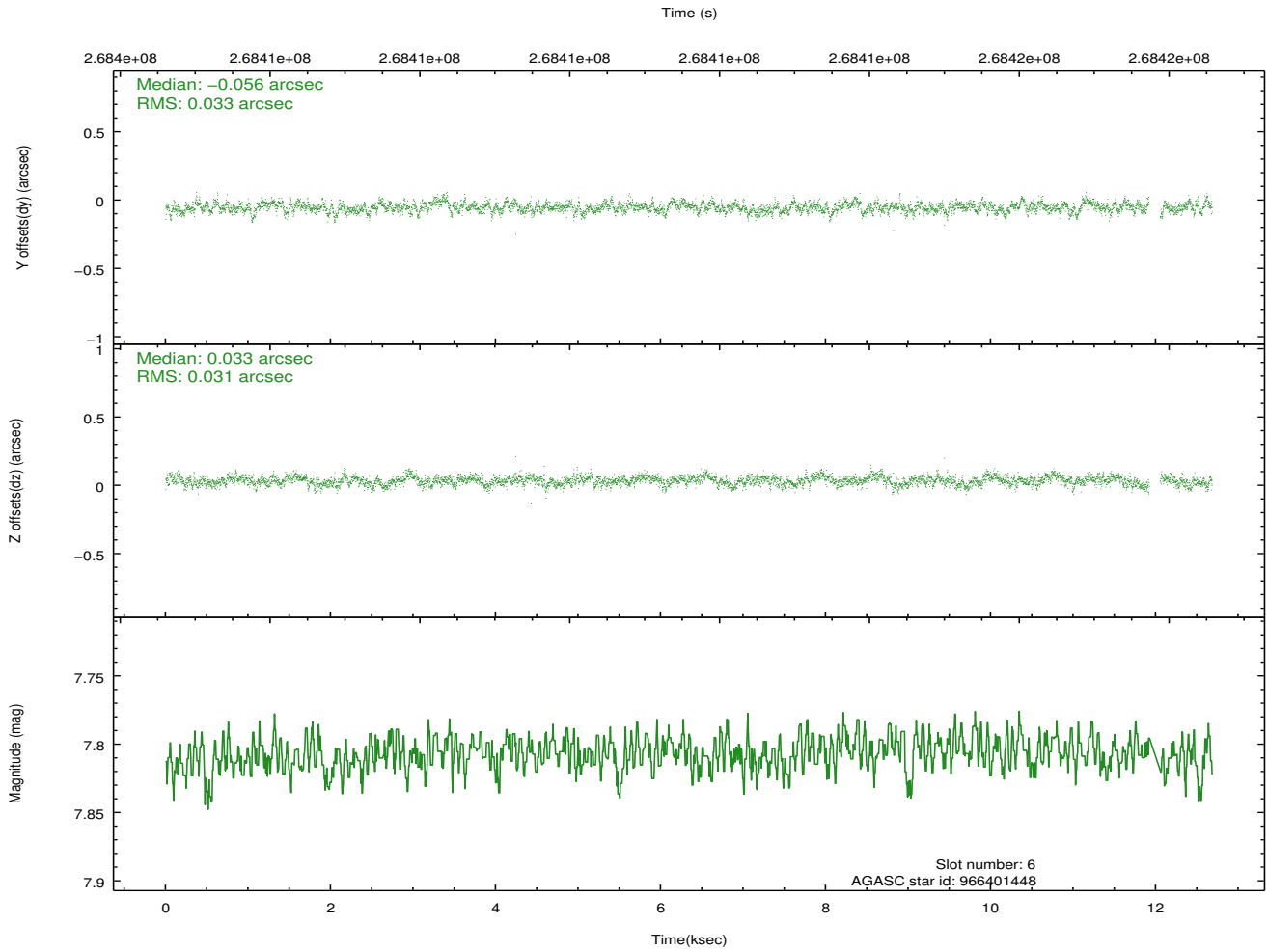
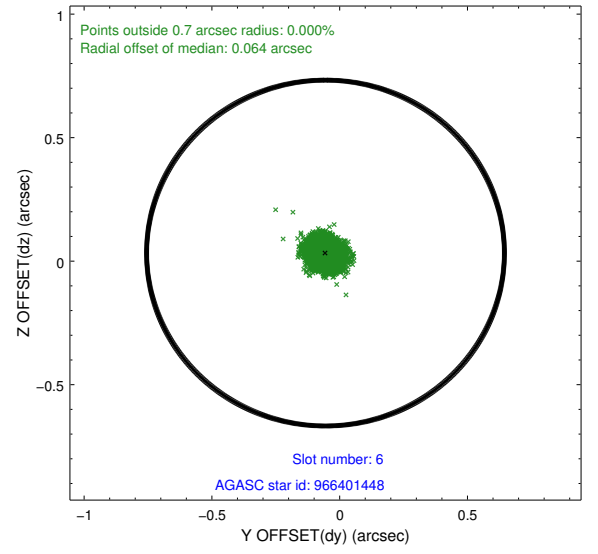
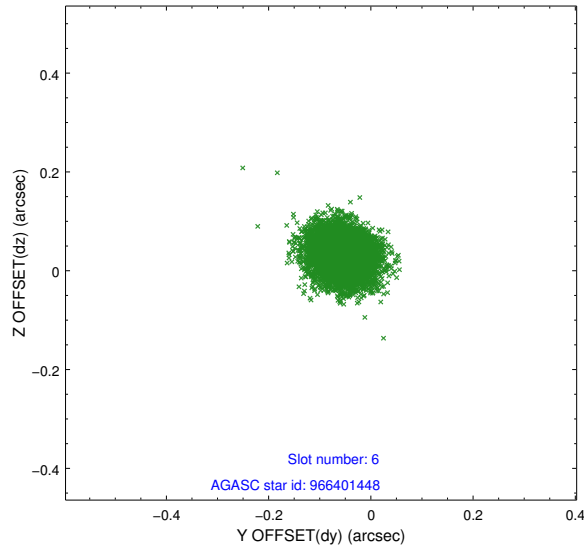
2.4.2 Slot 4



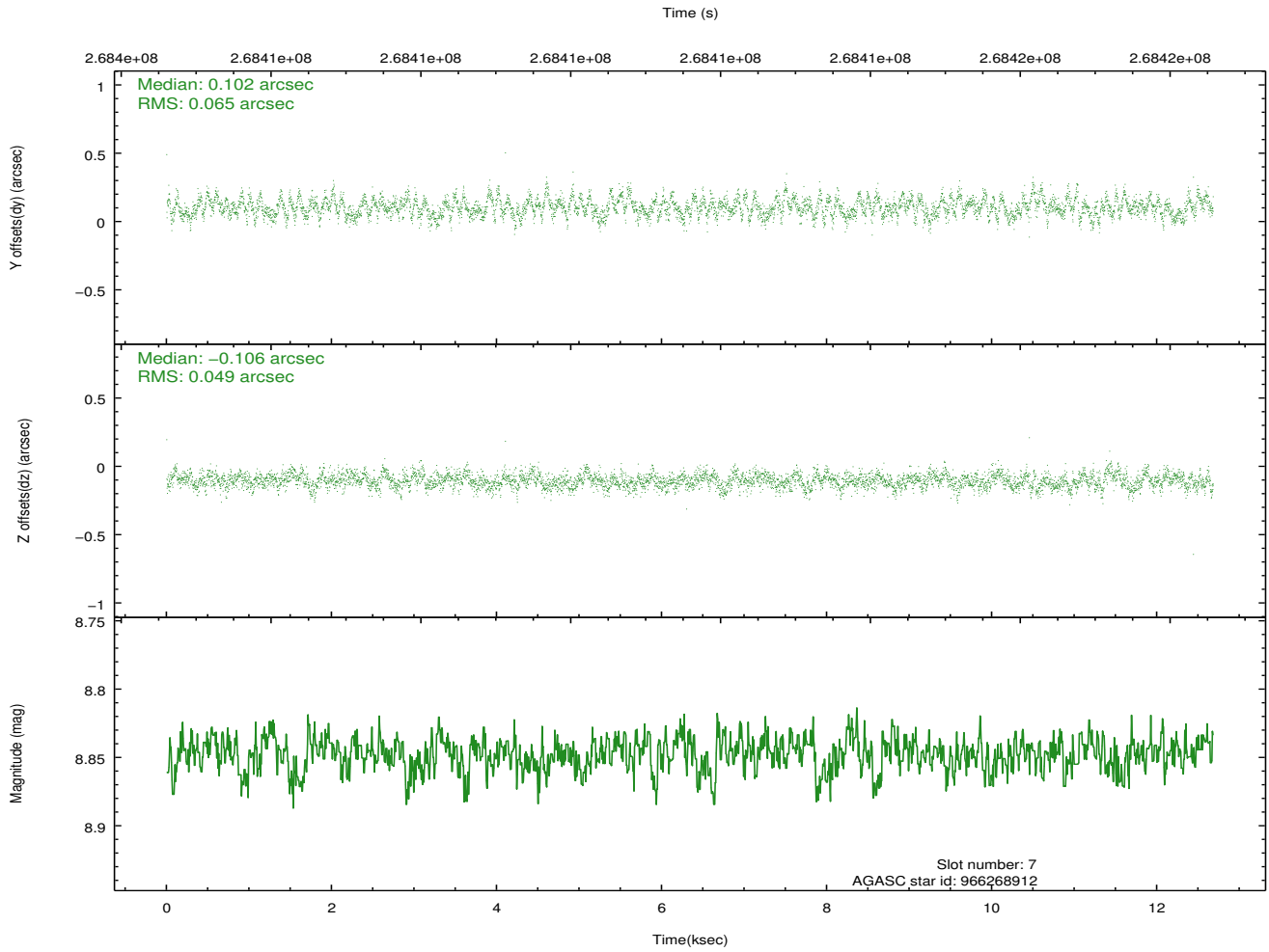
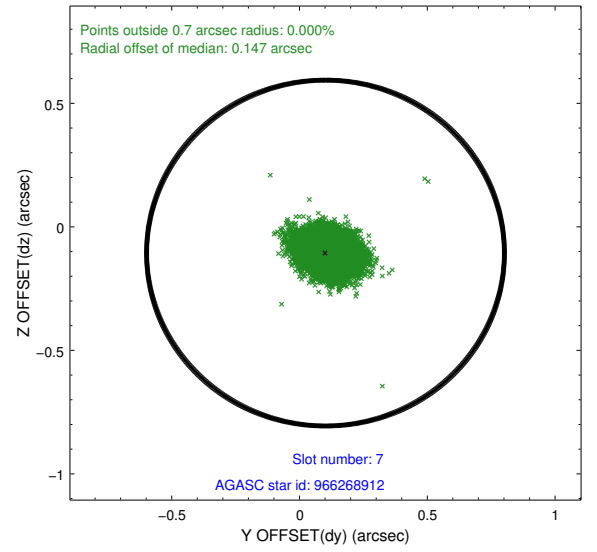
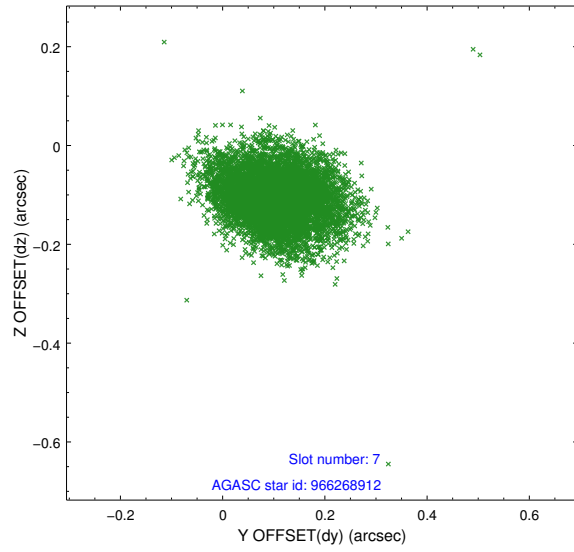
2.4.3 Slot 5



2.4.4 Slot 6

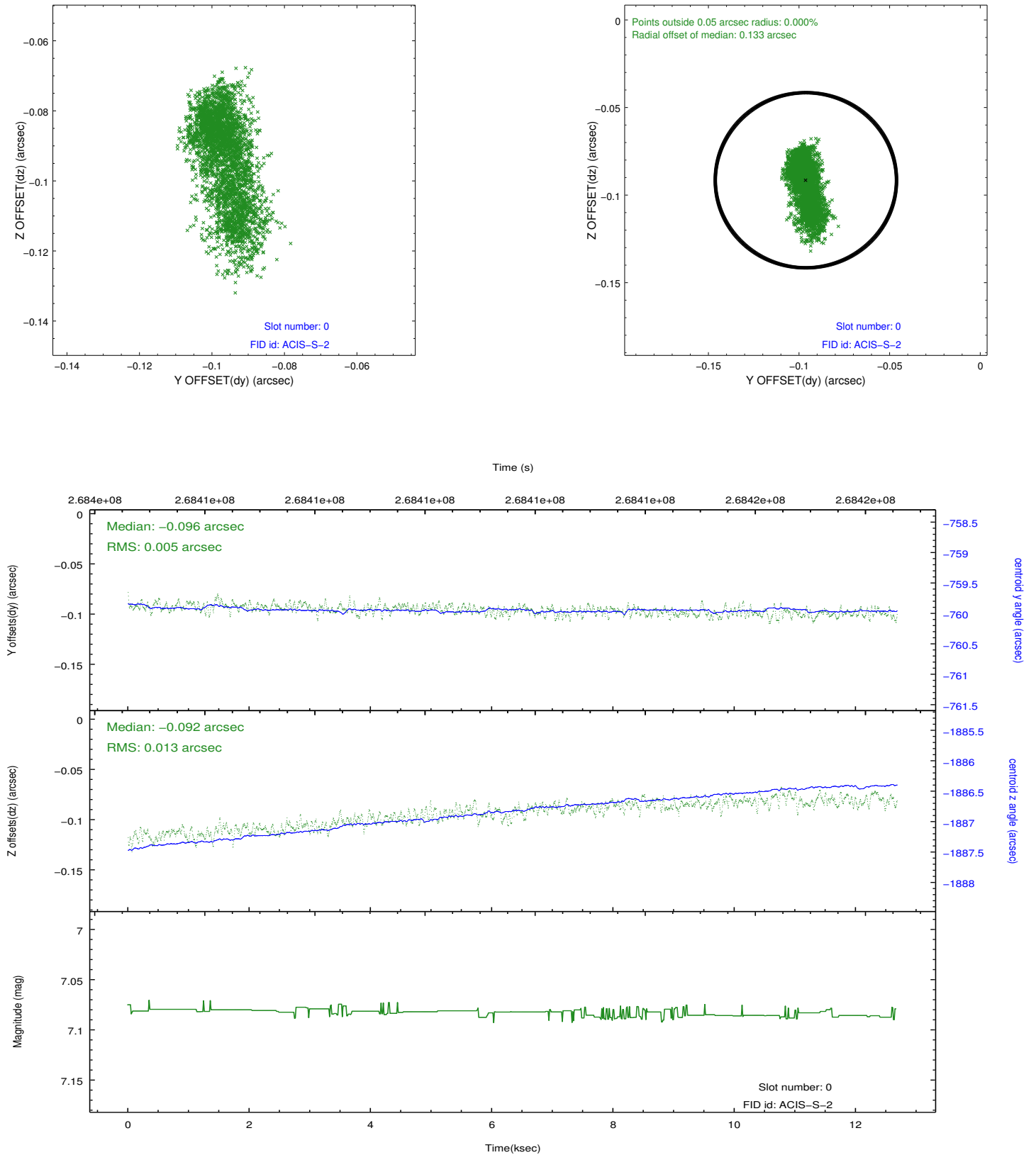


2.4.5 Slot 7

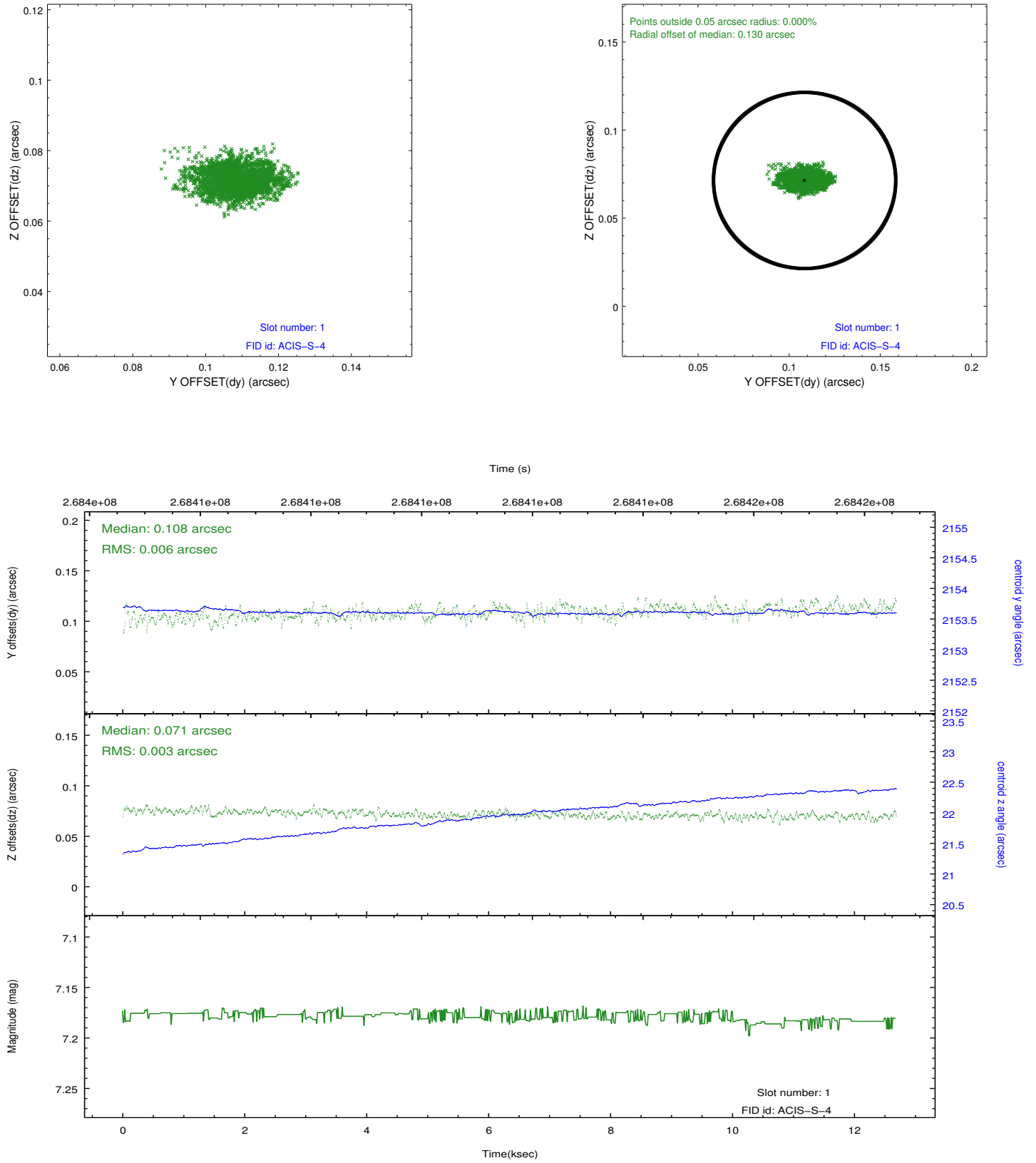


2.5 FID Slots

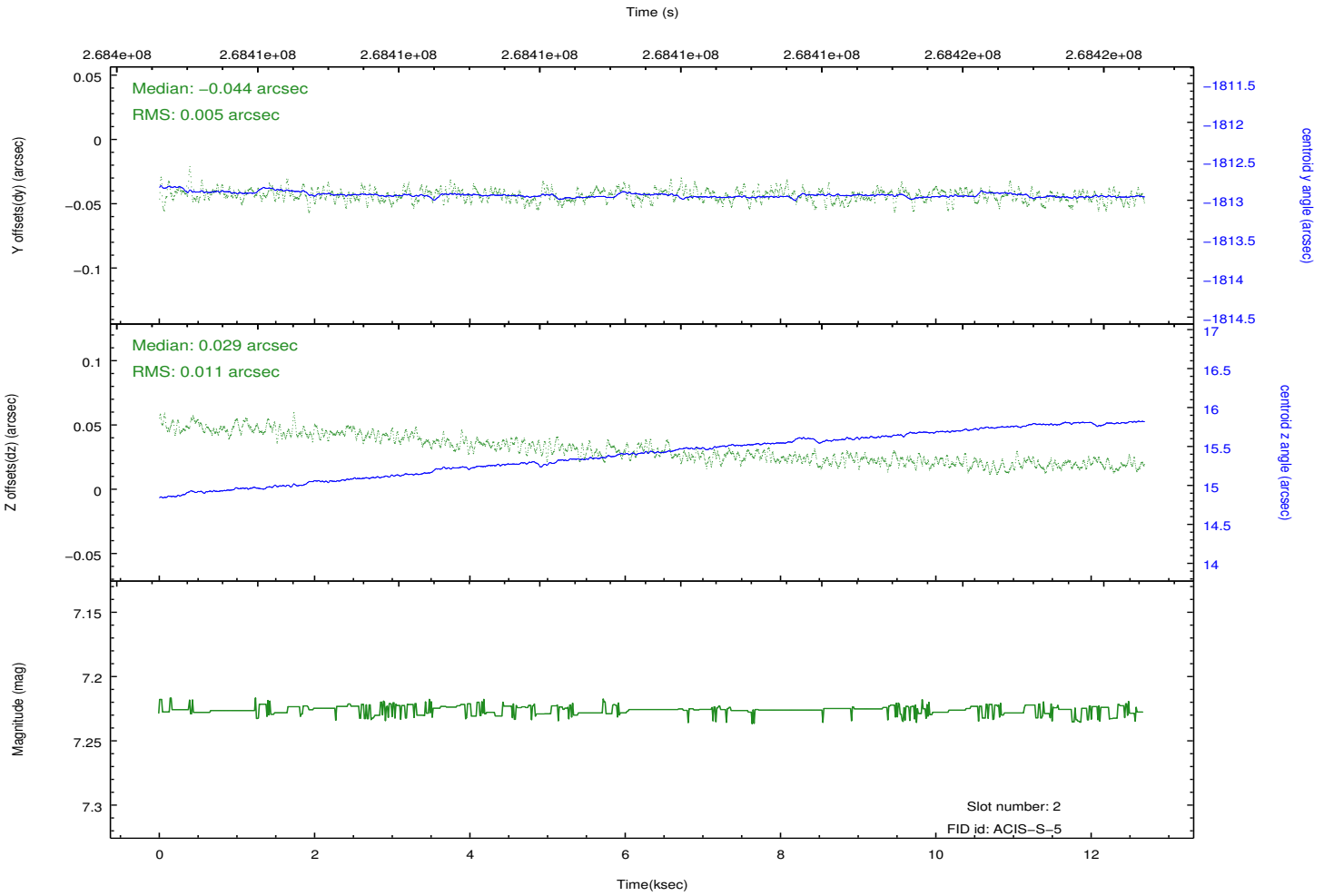
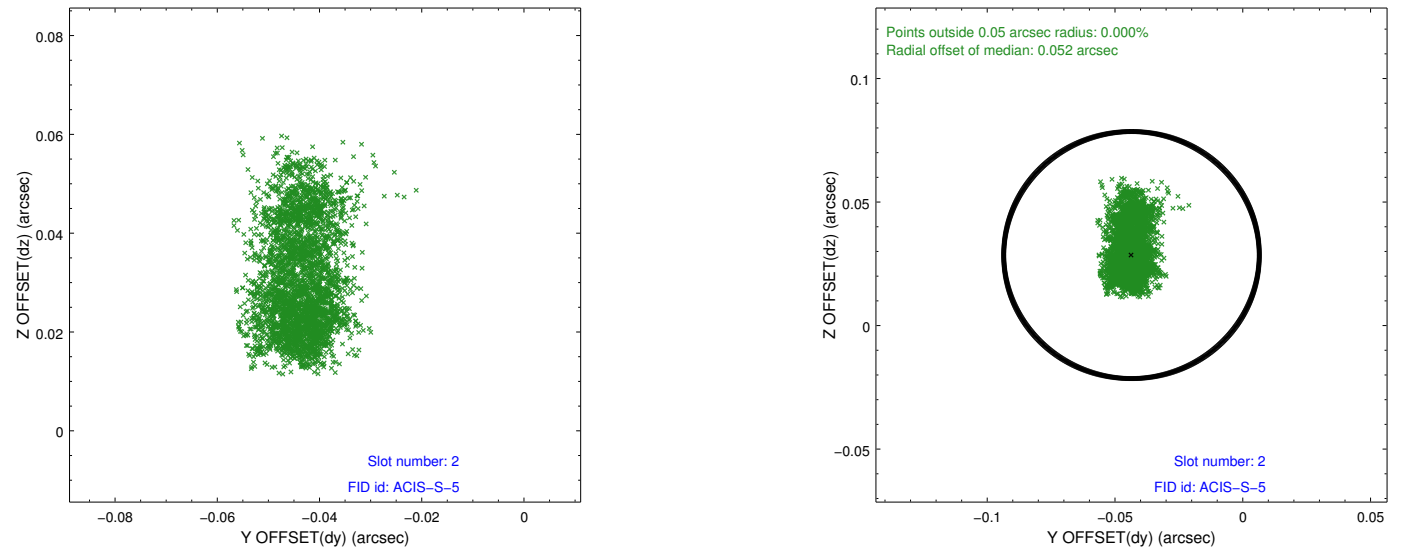
2.5.1 Slot 0



2.5.2 Slot 1

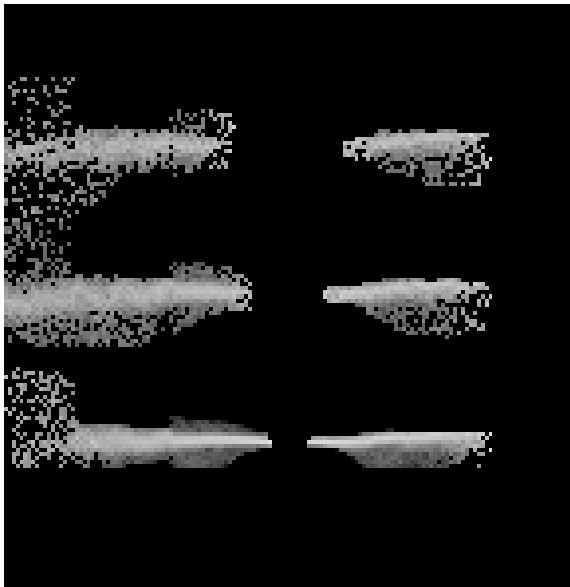


2.5.3 Slot 2



3 Gratings

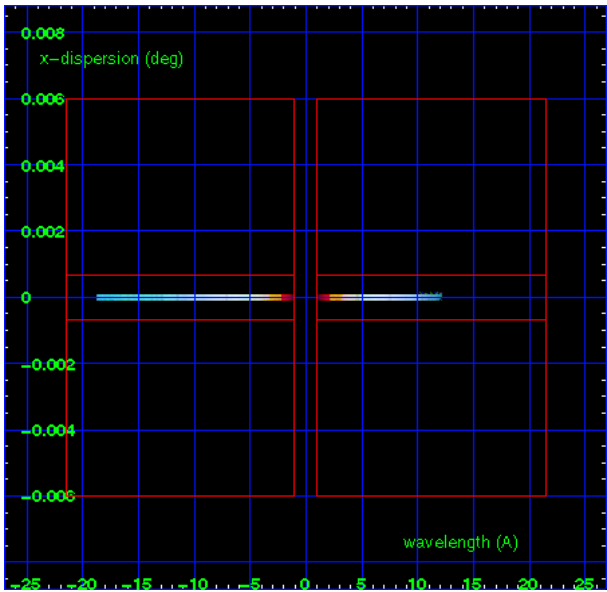
3.1 HEG Arm



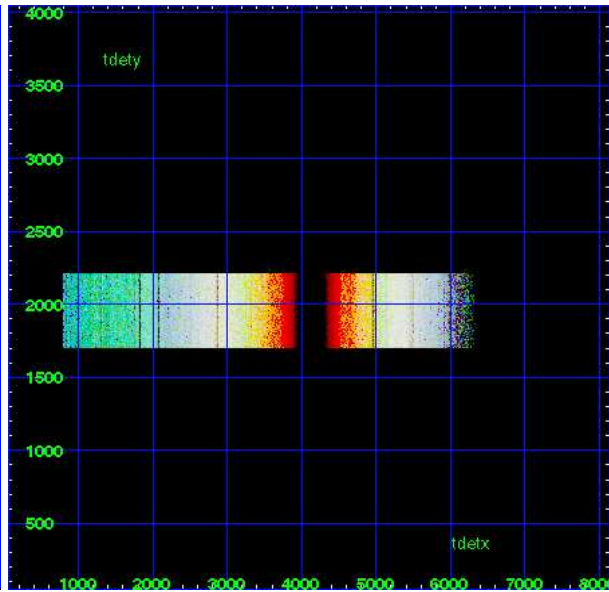
HEG Order Sort 123



HEG Order Sort ALL

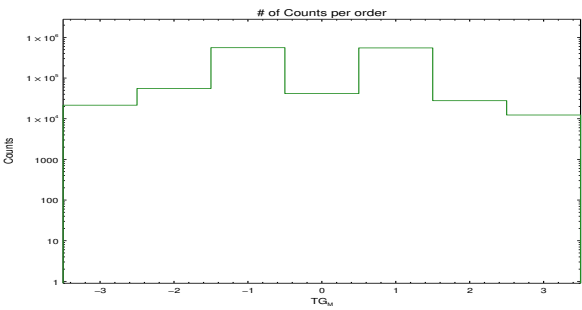


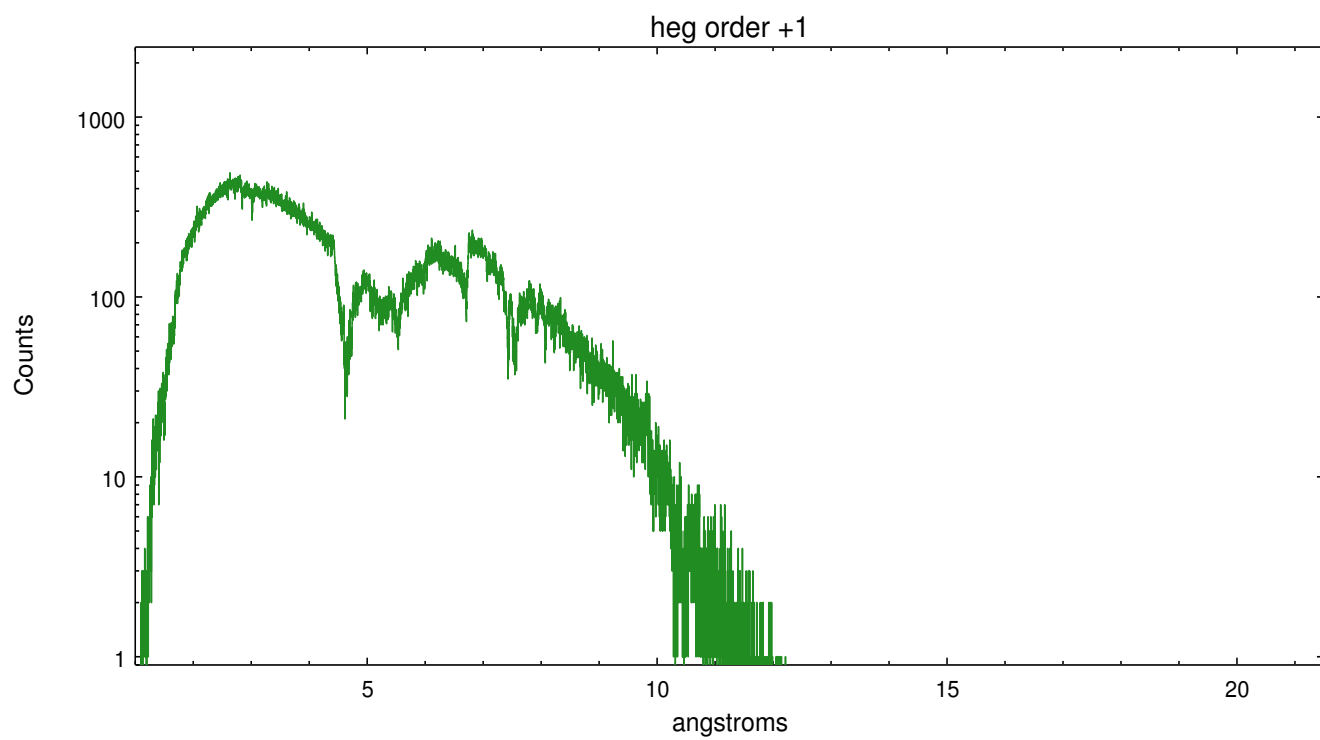
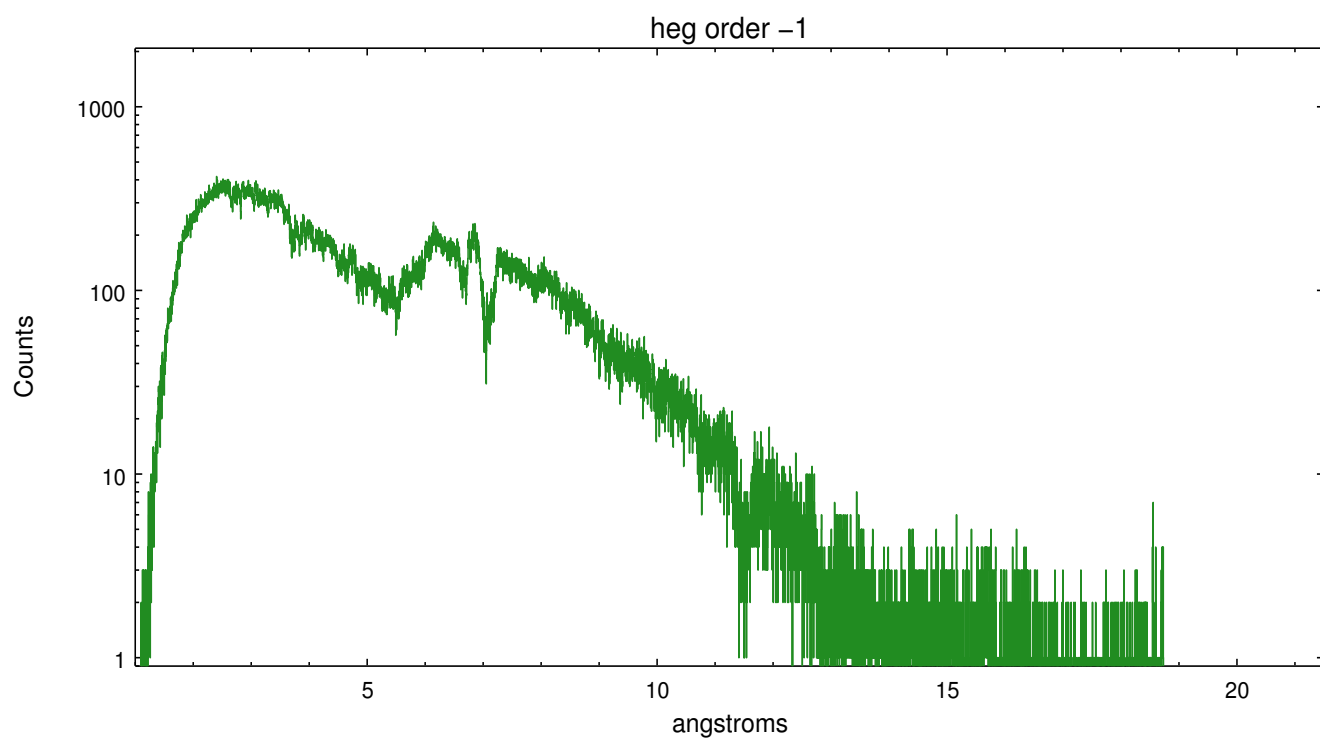
Spot Image HEG



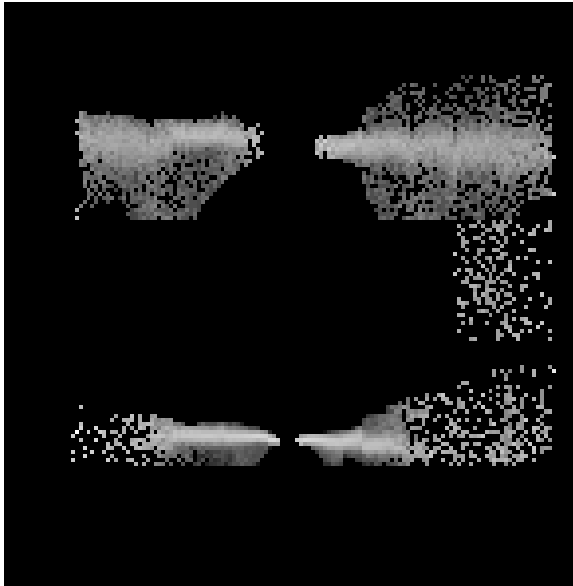
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	21506	55384	558892	41521	551338	27798	12346

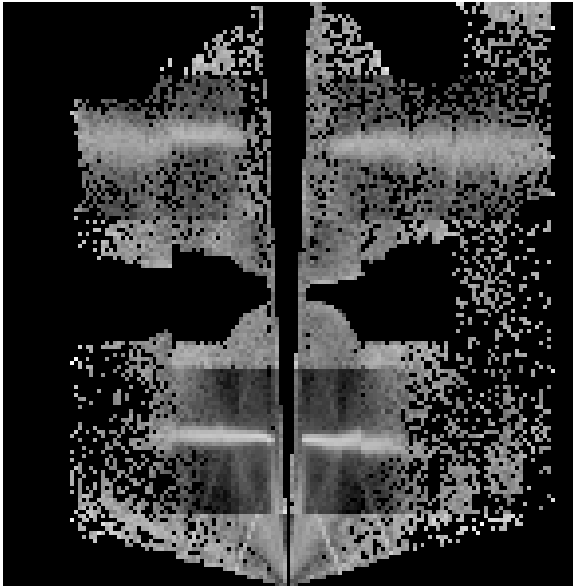




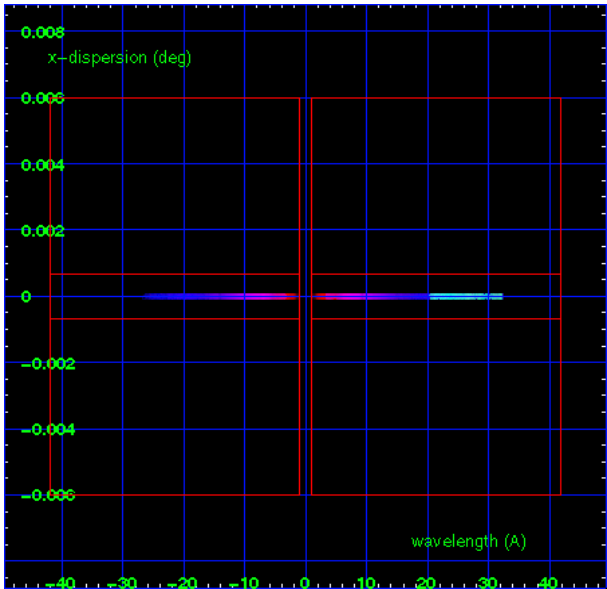
3.2 MEG Arm



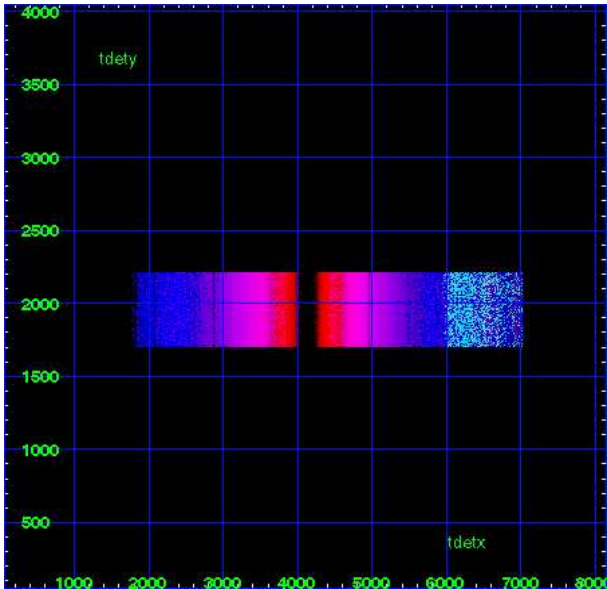
MEG Order Sort 123



MEG Order Sort ALL

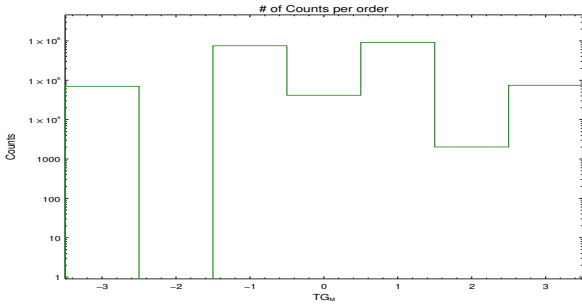


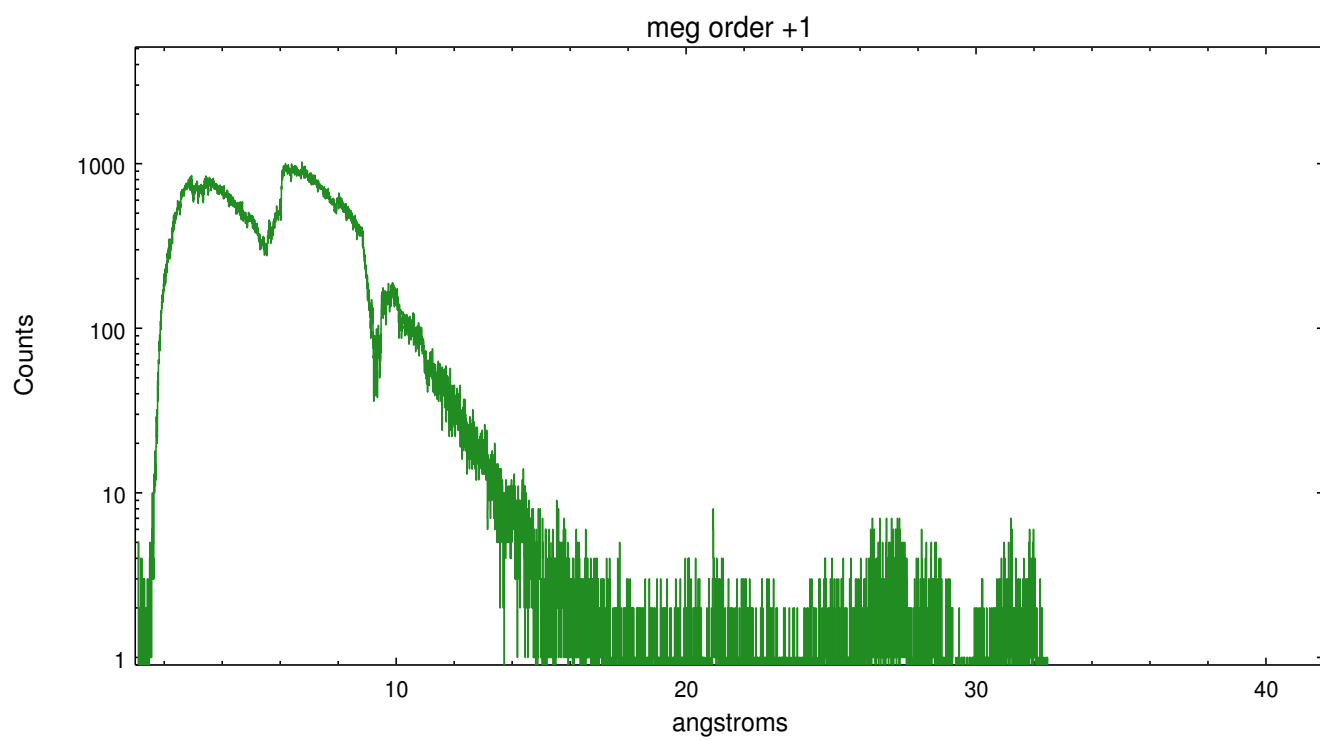
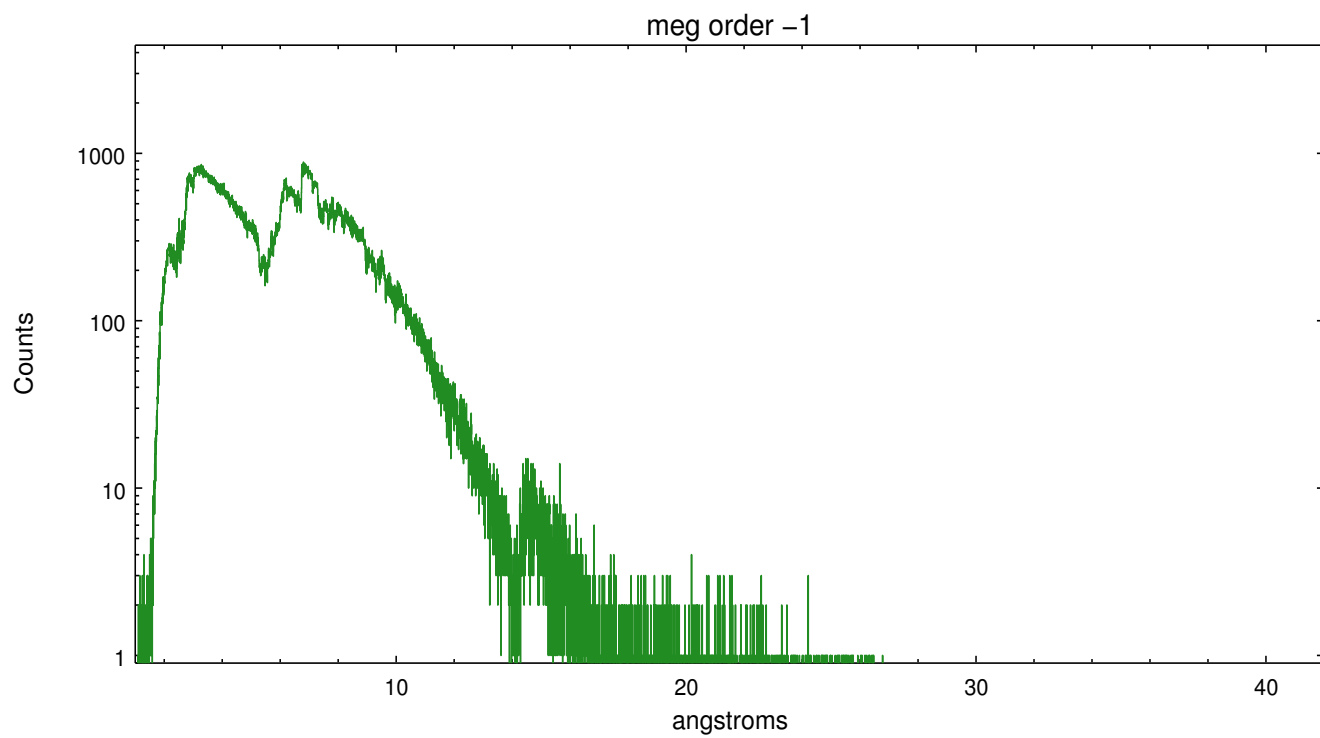
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	70109	0	751555	41521	914389	2018	74522





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.5915

A.2 Comments