

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 6336 - L2 Version 3
Chandra X-Ray Center

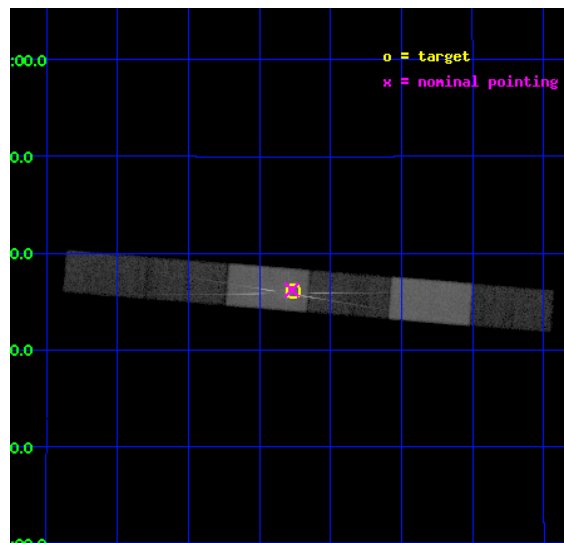
L2 Processing Date : Dec 25 2012

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1 Front

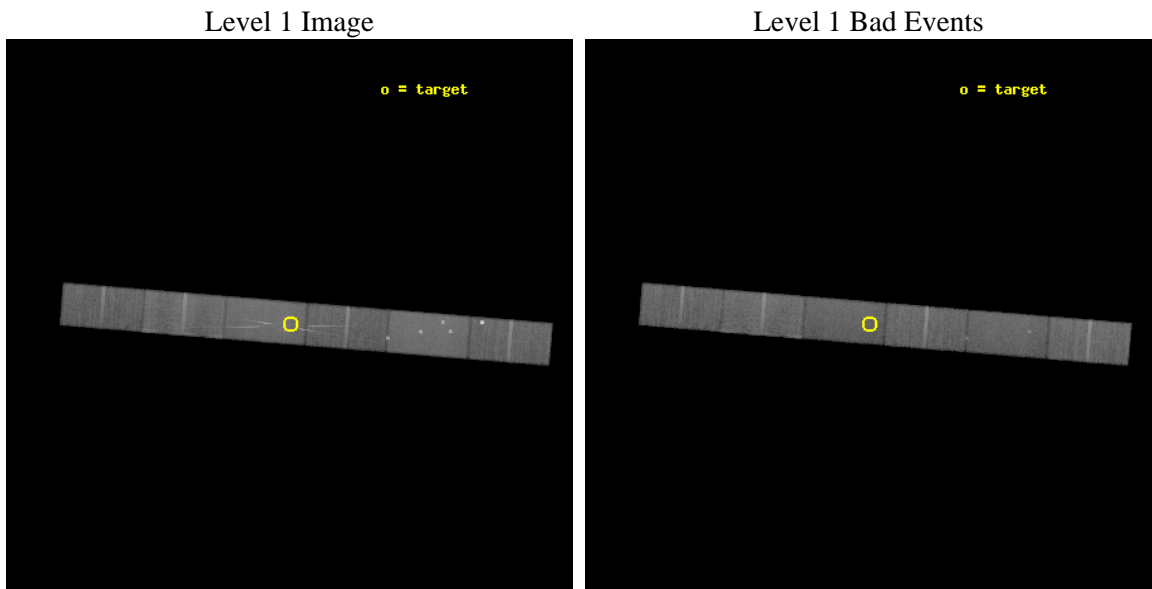
seq_num	400406	Sequence number
obs_id	6336	Observation id
title	X-RAY DIAGNOSTICS OF THE WIND OF HMXB X1908+075: POSSIBLE PROGENITOR BH-NS SYSTEM	Proposal title
observer	Prof. Saul Rappaport	Principal investigator
object	X1908+375: Low N _H	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.691667	Observer's specified target RA [deg]
dec_targ	7.601944	Observer's specified target Dec [deg]
ra_nom	287.69301512628	Nominal RA [deg]
dec_nom	7.6037128920534	Nominal Dec [deg]
roll_nom	184.65644607105	Nominal Roll [deg]
revision	3	Processing version of data
ontime	32179.299774349	Sum of GTIs [s]
livetime	31420.765528875	Livetime [s]
ontime4	32179.299774349	Sum of GTIs [s]
ontime5	32179.299774349	Sum of GTIs [s]
ontime6	32179.299774349	Sum of GTIs [s]
ontime7	32179.299774349	Sum of GTIs [s]
ontime8	32179.299774349	Sum of GTIs [s]
ontime9	32179.299774349	Sum of GTIs [s]
l2events	237191	Number of level 2 events



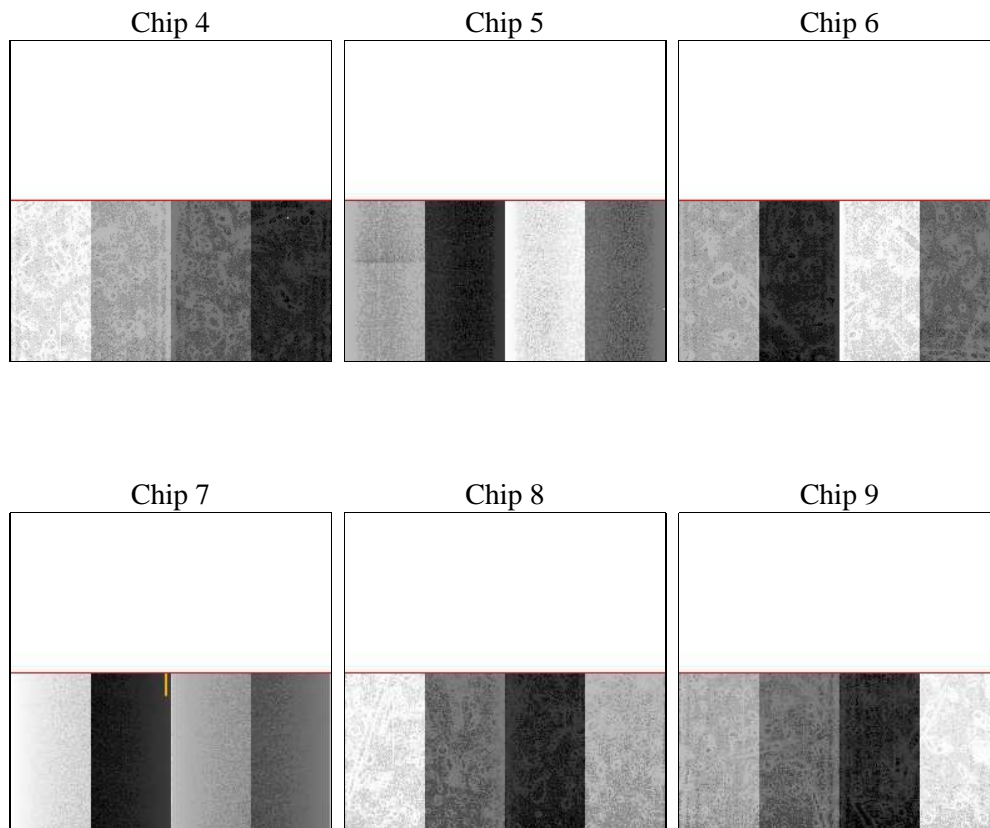
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	32179.299774349	Sum of GTIs [s]
caldsver	4.5.5	 	ontime4	32179.299774349	Sum of GTIs [s]
date	2012-12-26T00:17:15	Date and time of file creation	ontime5	32179.299774349	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	32179.299774349	Sum of GTIs [s]
			ontime7	32179.299774349	Sum of GTIs [s]
			ontime8	32179.299774349	Sum of GTIs [s]
			ontime9	32179.299774349	Sum of GTIs [s]
			l1events	989316	Number of level 1 events

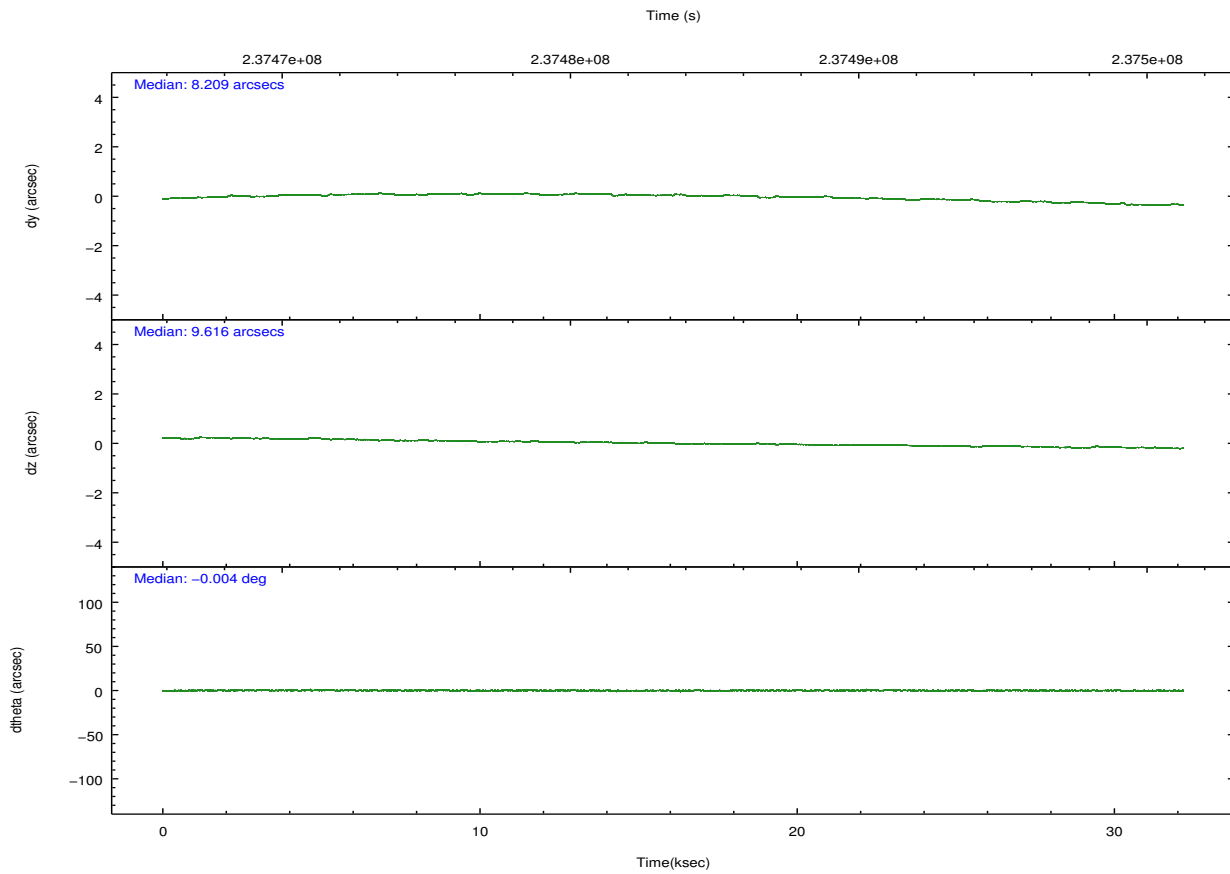
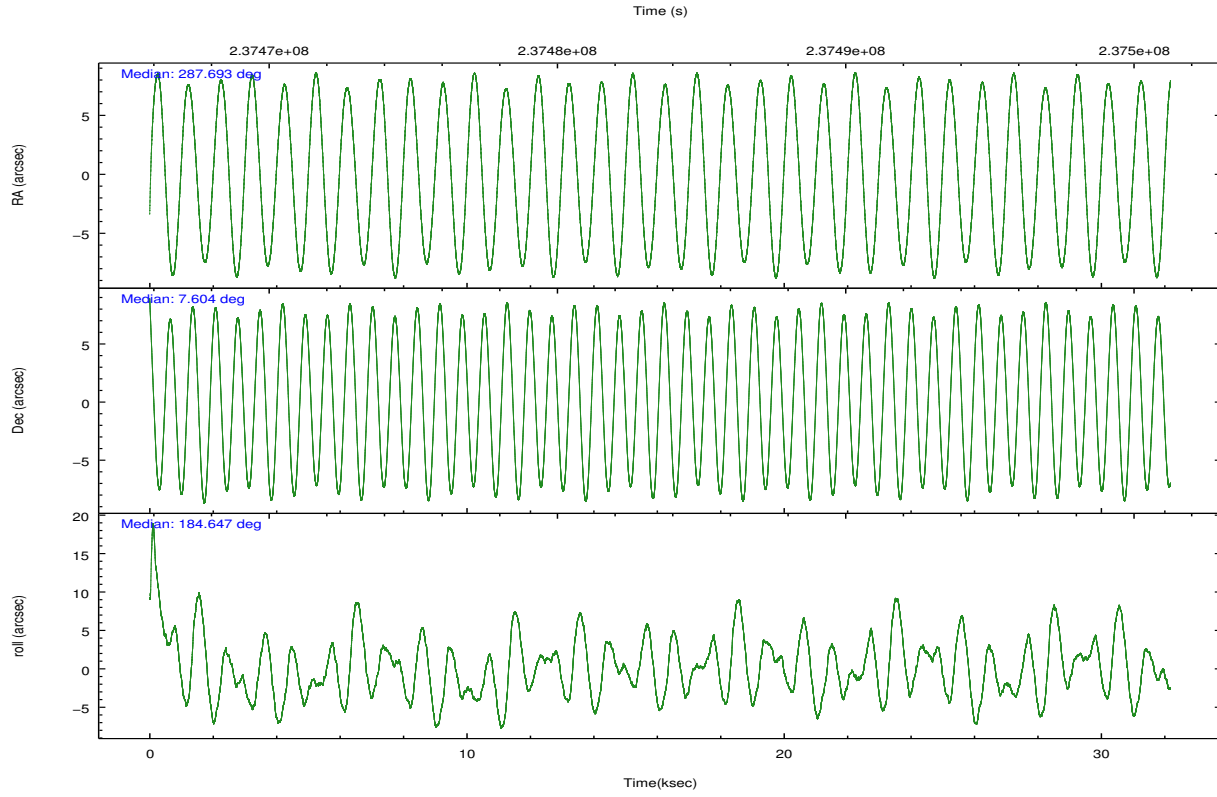
2.1.4 Events

	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	162009	198184	136284	198334	169514	124991	grade 0 events	24954	18046	11008	11297	12833	6299
rejected events	127762	102678	112927	101725	130323	109203		15%	9%	8%	5%	7%	5%
rejected %	78%	51%	82%	51%	76%	87%	grade 1 events	142	792	74	456	105	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	3651	25798	4505	20196	8115	3027
								2%	13%	3%	10%	4%	2%
							grade 3 events	1852	4921	2197	9385	4944	1890
								1%	2%	1%	4%	2%	1%
							grade 4 events	1802	4686	2149	9108	4438	1762
								1%	2%	1%	4%	2%	1%
							grade 5 events	5335	15290	5627	17203	7315	5645
								3%	7%	4%	8%	4%	4%
							grade 6 events	2674	43794	3868	48242	9998	3165
								1%	22%	2%	24%	5%	2%
							grade 7 events	121599	84857	106856	82447	121766	103152
								75%	42%	78%	41%	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	287.715401	287.6930151262836	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	7.619508	7.603712892053362	Subarray start row	1	1
[deg] Pointing Roll	184.496853	184.6564460710464	Subarray row count	512	512
[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	1.7
[mm] SIM translation stage pos	-183.992523	-183.9875365069546			
[mm] SIM translation stage offset	-6.14	-6.144986076053243			
Phase constraints	Y	Y			
[d] Phase period	4.400700	4.400700			
[d] Phase epoch (MJD)	52631.383000	52631.383000			
Phase start	0.434200	0.434200			
Phase end	0.565800	0.565800			
Phase start error	0.134200	0.134200			
Phase end error	0.134200	0.134200			
[s] Observation start time (MET)	237467649.184000	237466437.40077			
Observation start date	2005-07-11T11:13:05	2005-07-11T10:53:57			
[s] Observation end time (MET)	237499649.184000	237501177.72736			
Observation end date	2005-07-11T20:06:25	2005-07-11T20:32:57			
Read mode	TIMED	TIMED			

2.3 Aspect

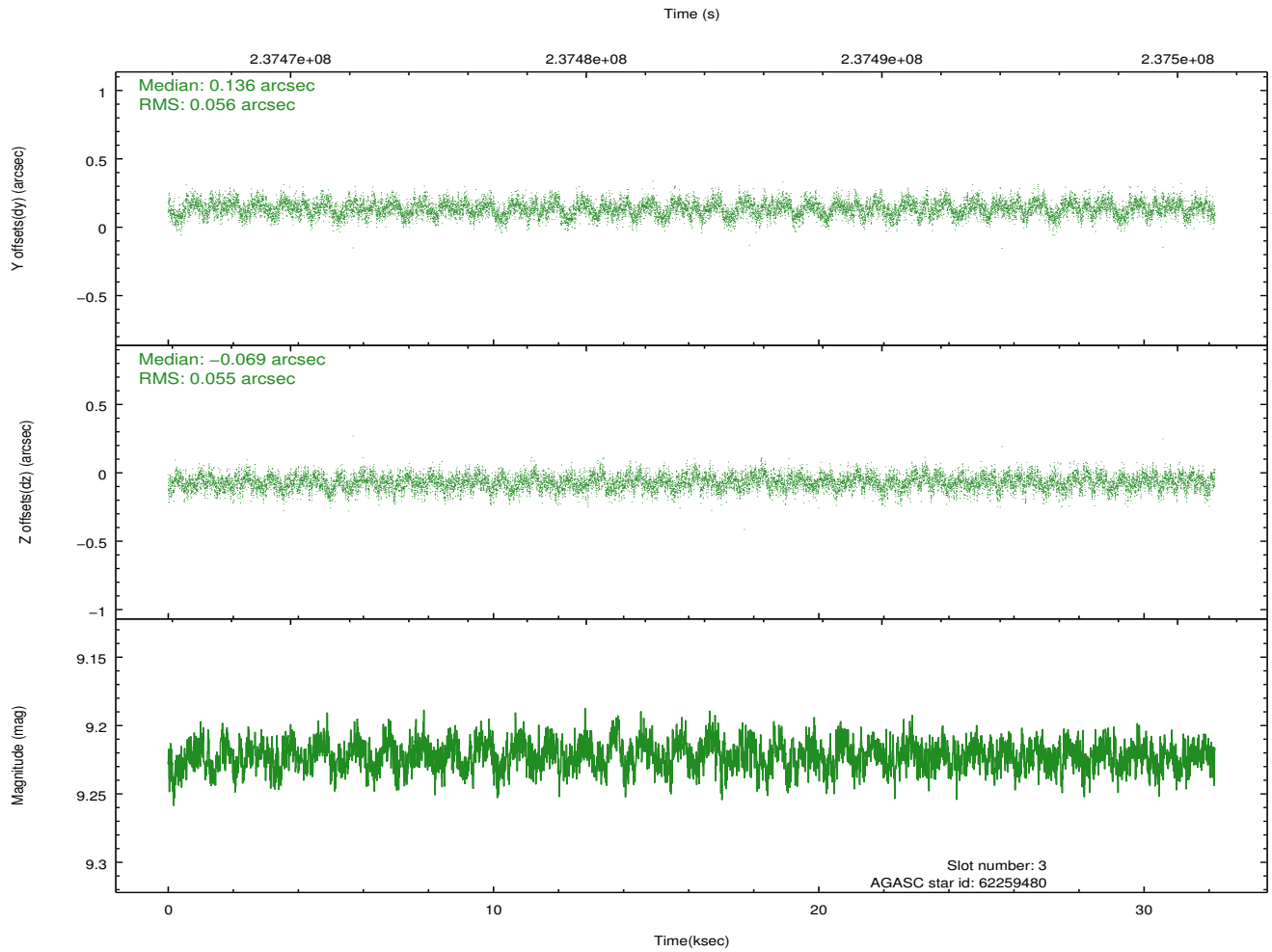
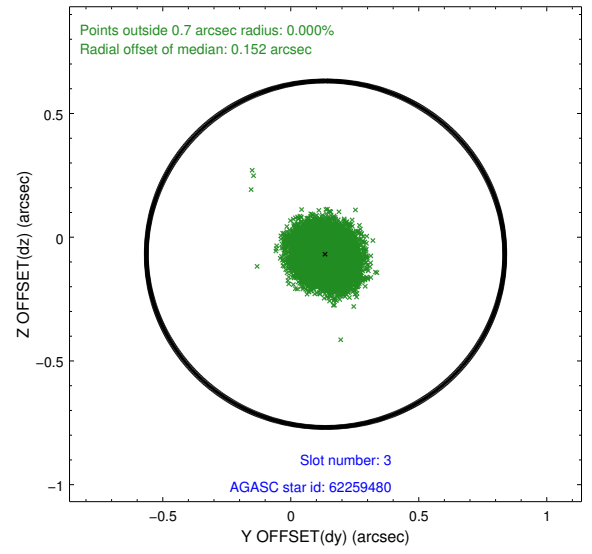
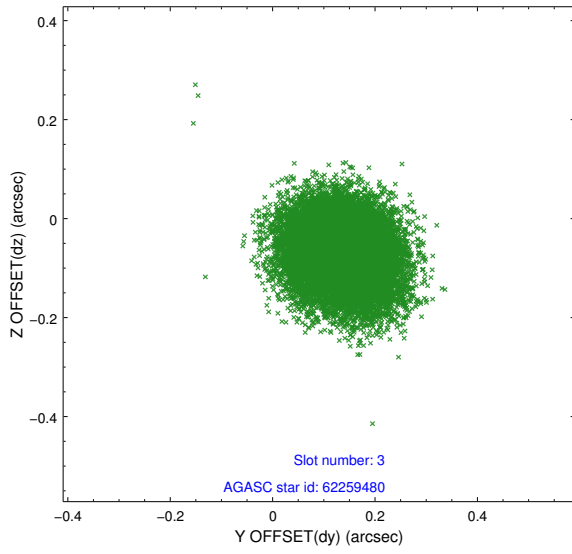


Slot Statistics

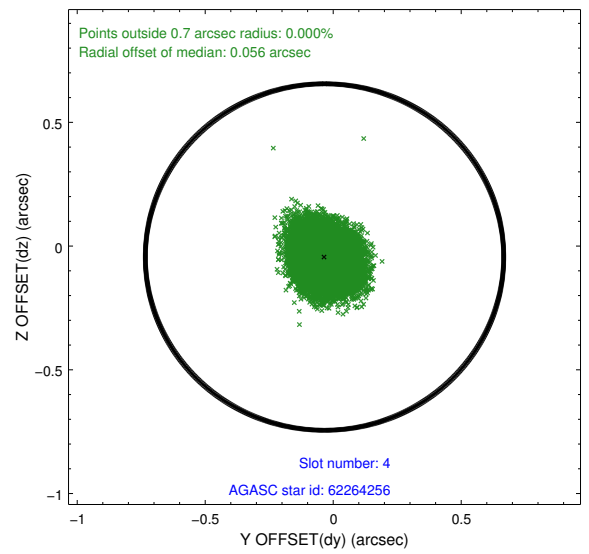
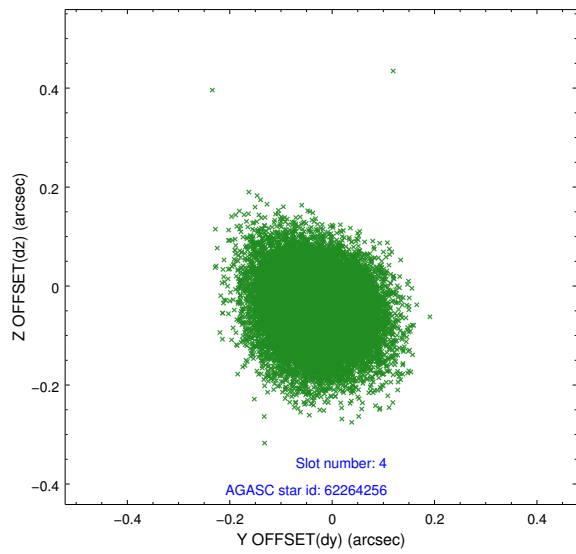
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	7850	-0.050	-0.107	0.010	0.015	0.000000	0.000000	-760.56	-1857.63
1	FID	ACIS-S-4	7.18	7850	0.111	0.053	0.008	0.016	0.000000	0.000000	2152.85	50.93
2	FID	ACIS-S-5	7.23	7850	-0.091	0.063	0.010	0.016	0.000000	0.000000	-1813.37	44.67
3	GUIDE	62259480	9.22	15689	0.136	-0.069	0.084	0.134	288.069646	7.483083	-1221.65	588.06
4	GUIDE	62264256	9.26	15691	-0.034	-0.044	0.099	0.154	287.525458	7.120381	817.32	1738.19
5	GUIDE	136318600	9.18	15689	-0.098	0.017	0.092	0.147	287.193672	7.971966	1755.36	-1411.47
6	GUIDE	136451568	9.67	15684	0.028	0.058	0.130	0.209	287.608270	8.059160	257.37	-1607.79
7	GUIDE	136446056	9.38	15686	-0.028	0.044	0.075	0.123	287.496360	7.664883	766.62	-224.22

2.4 Star Slots

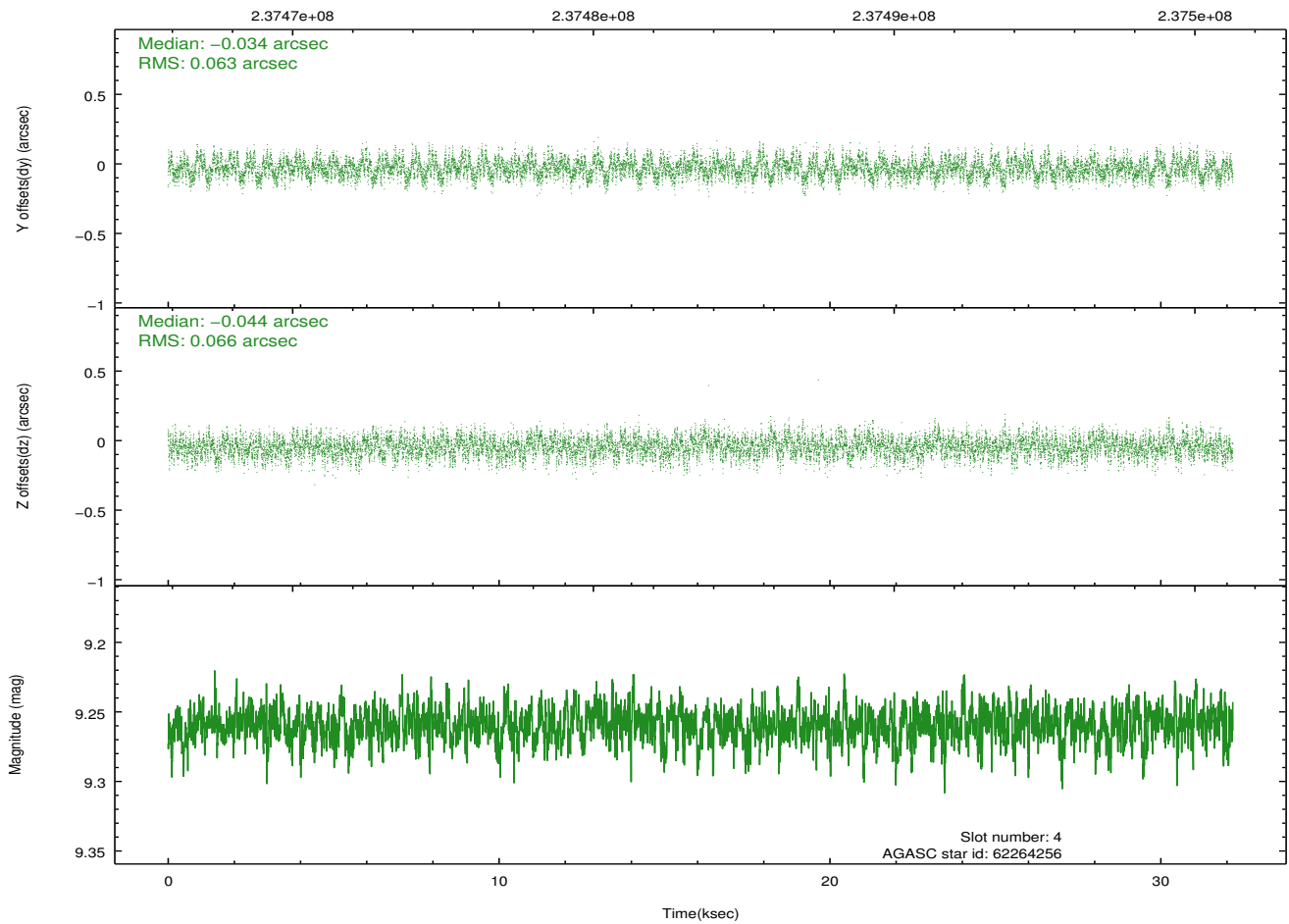
2.4.1 Slot 3



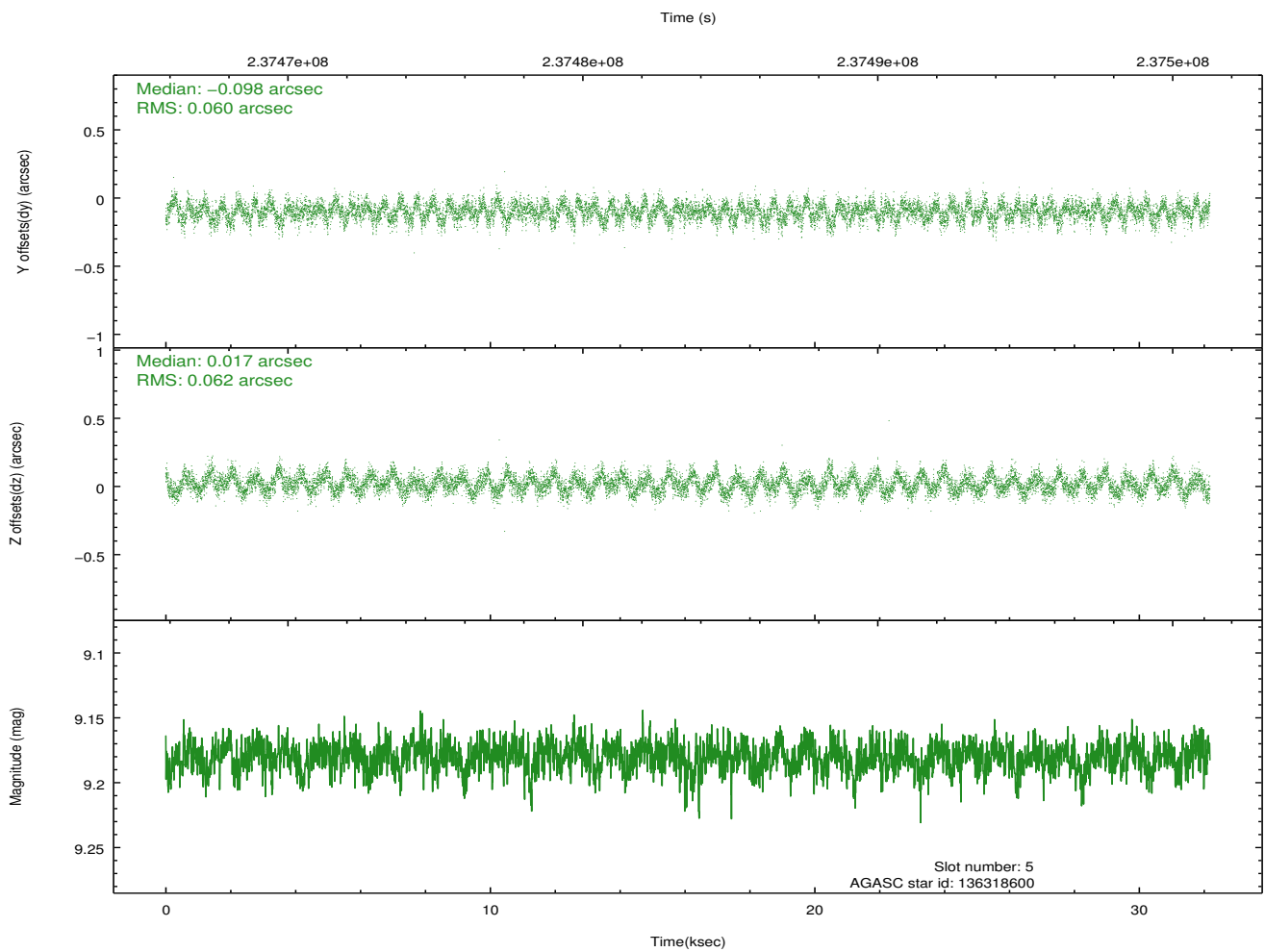
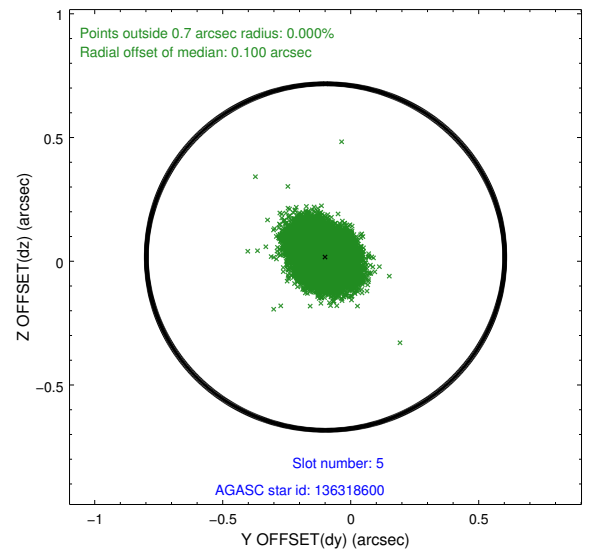
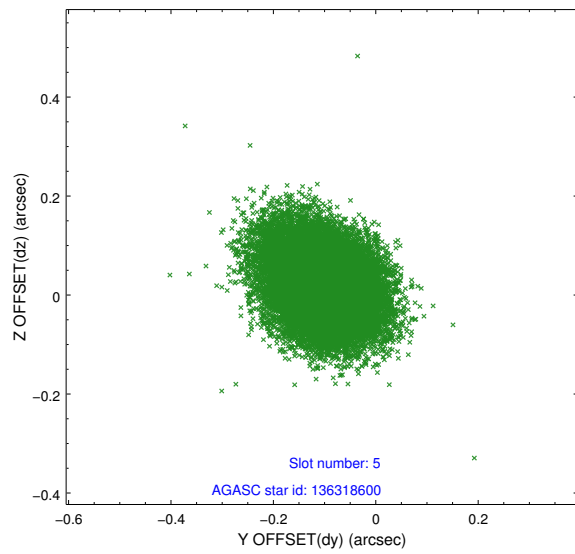
2.4.2 Slot 4



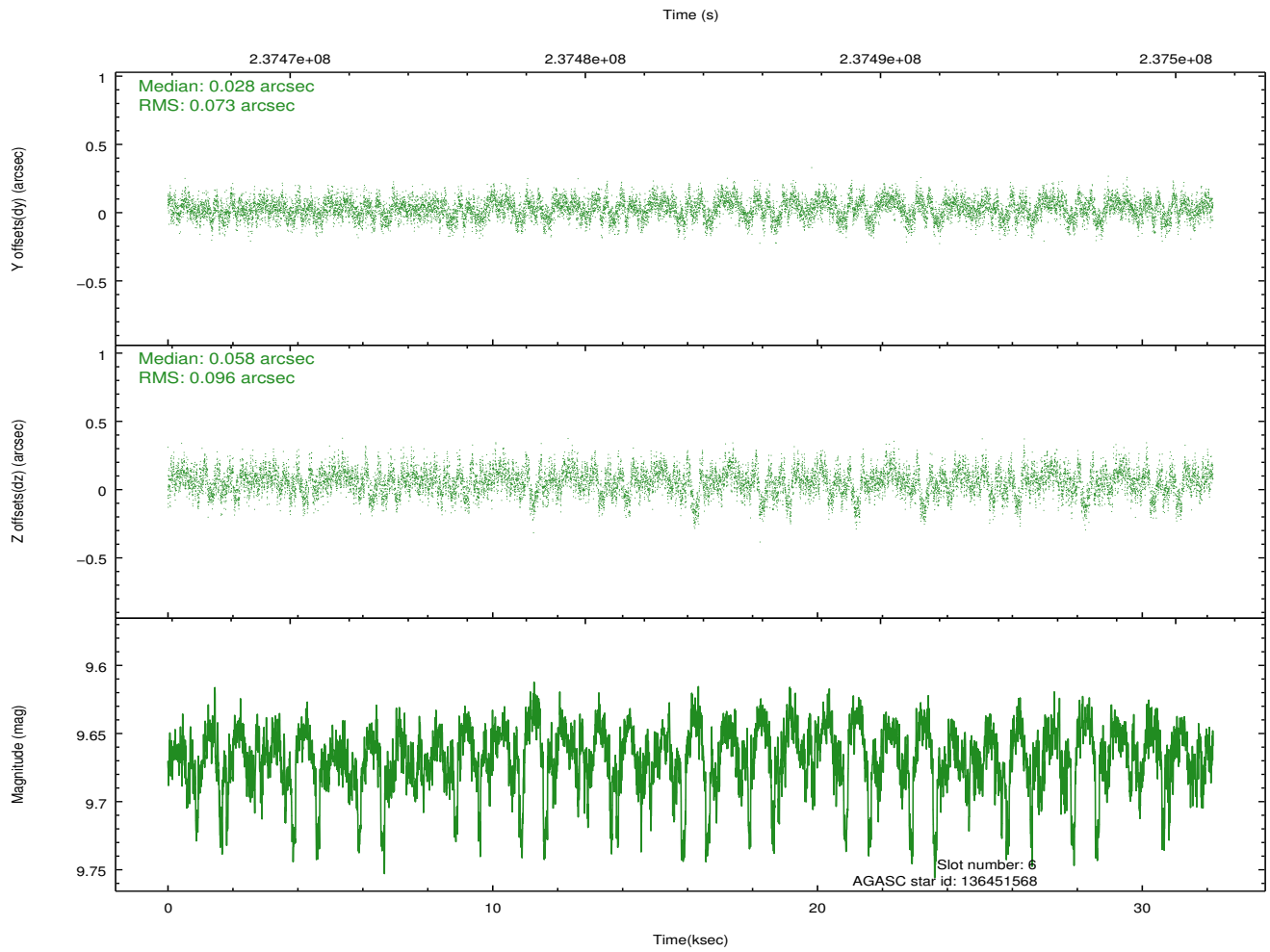
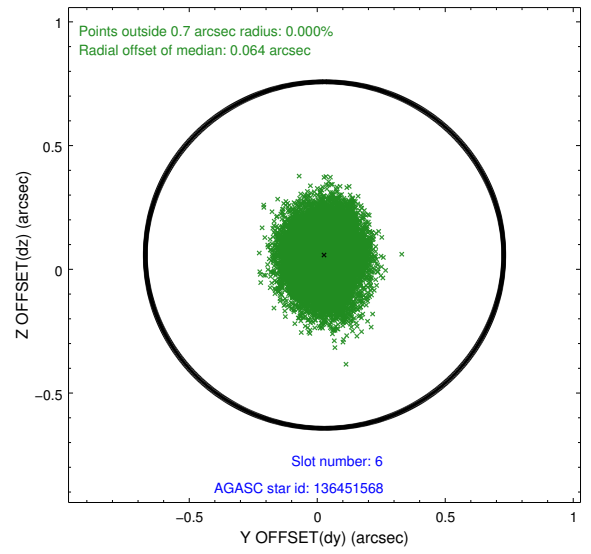
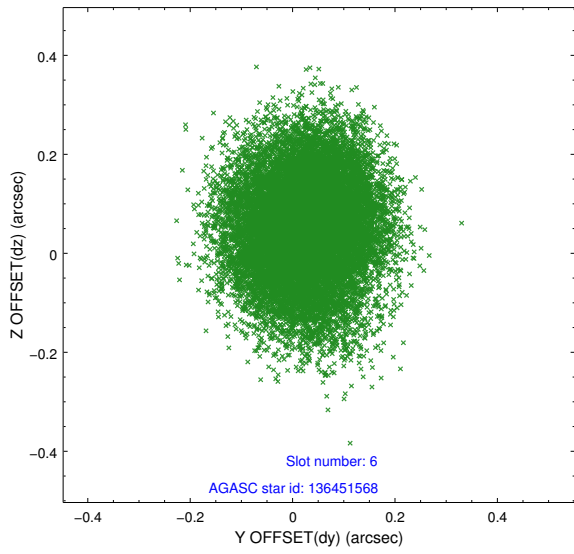
Time (s)



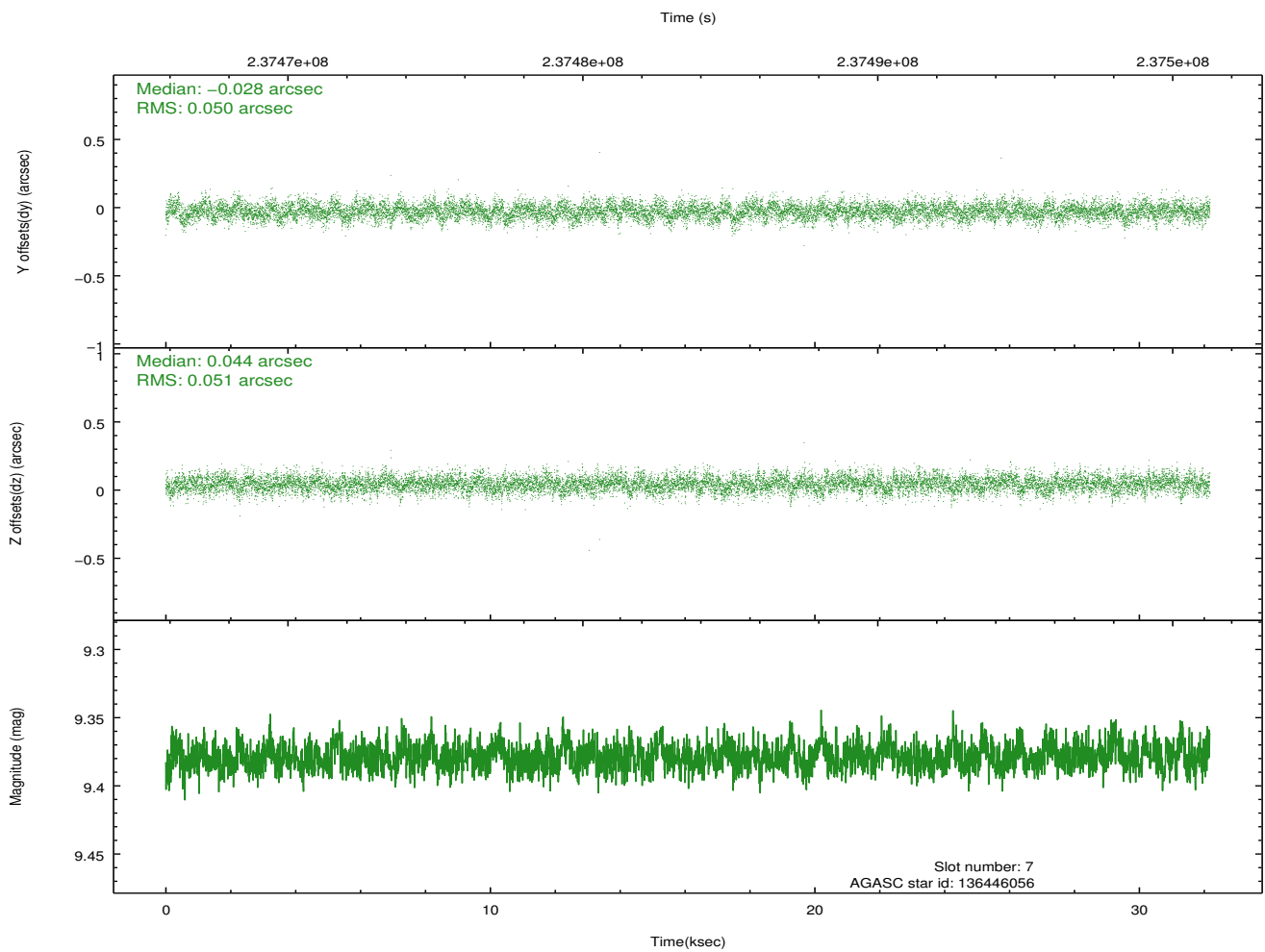
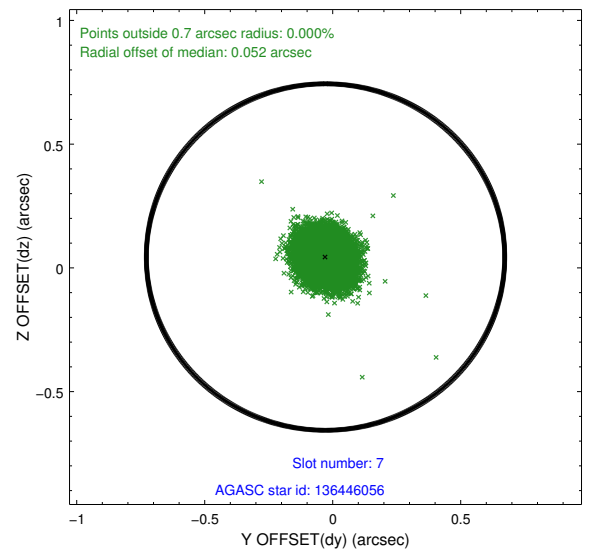
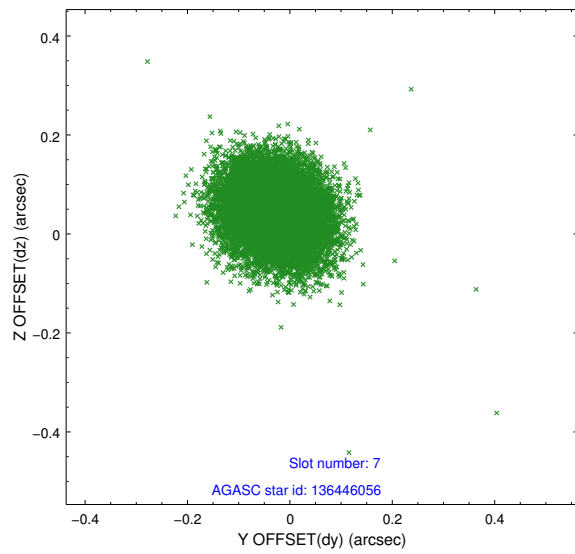
2.4.3 Slot 5



2.4.4 Slot 6

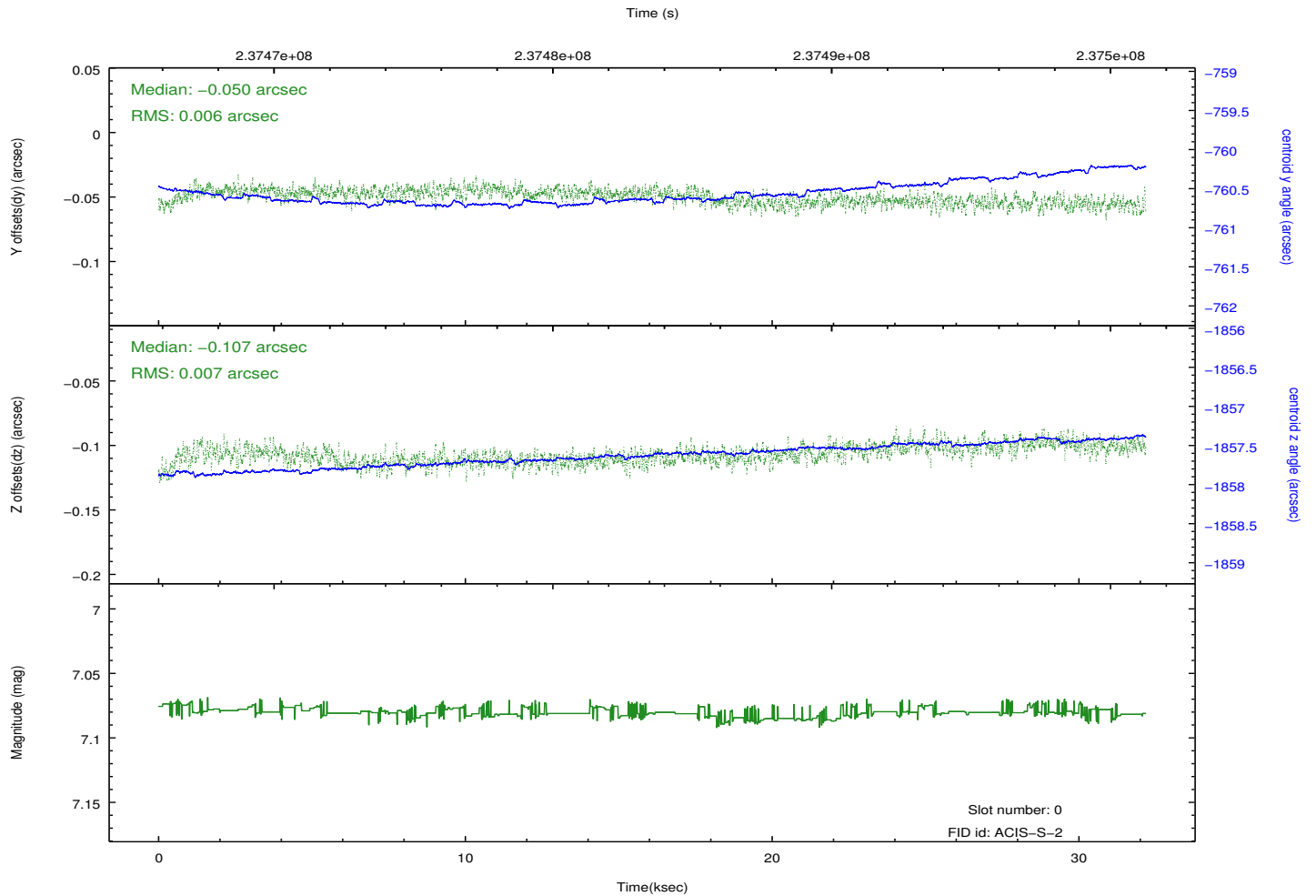
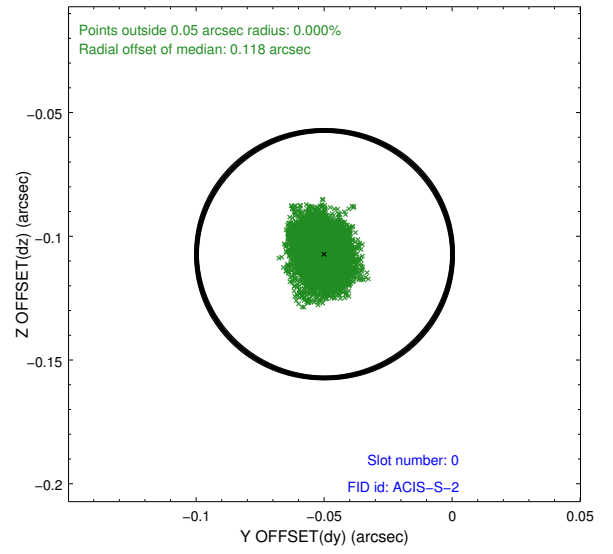
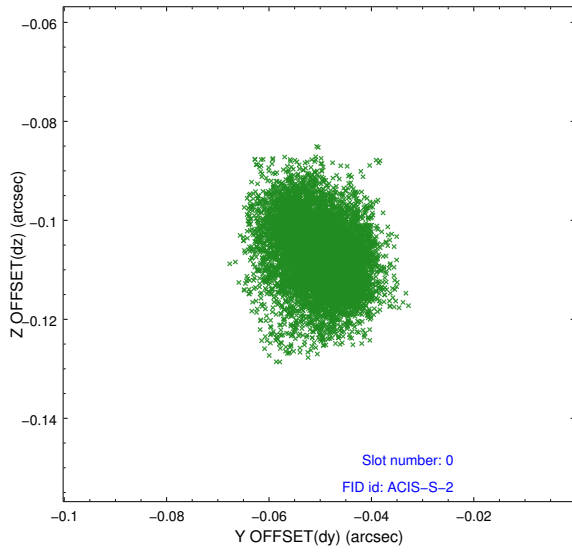


2.4.5 Slot 7

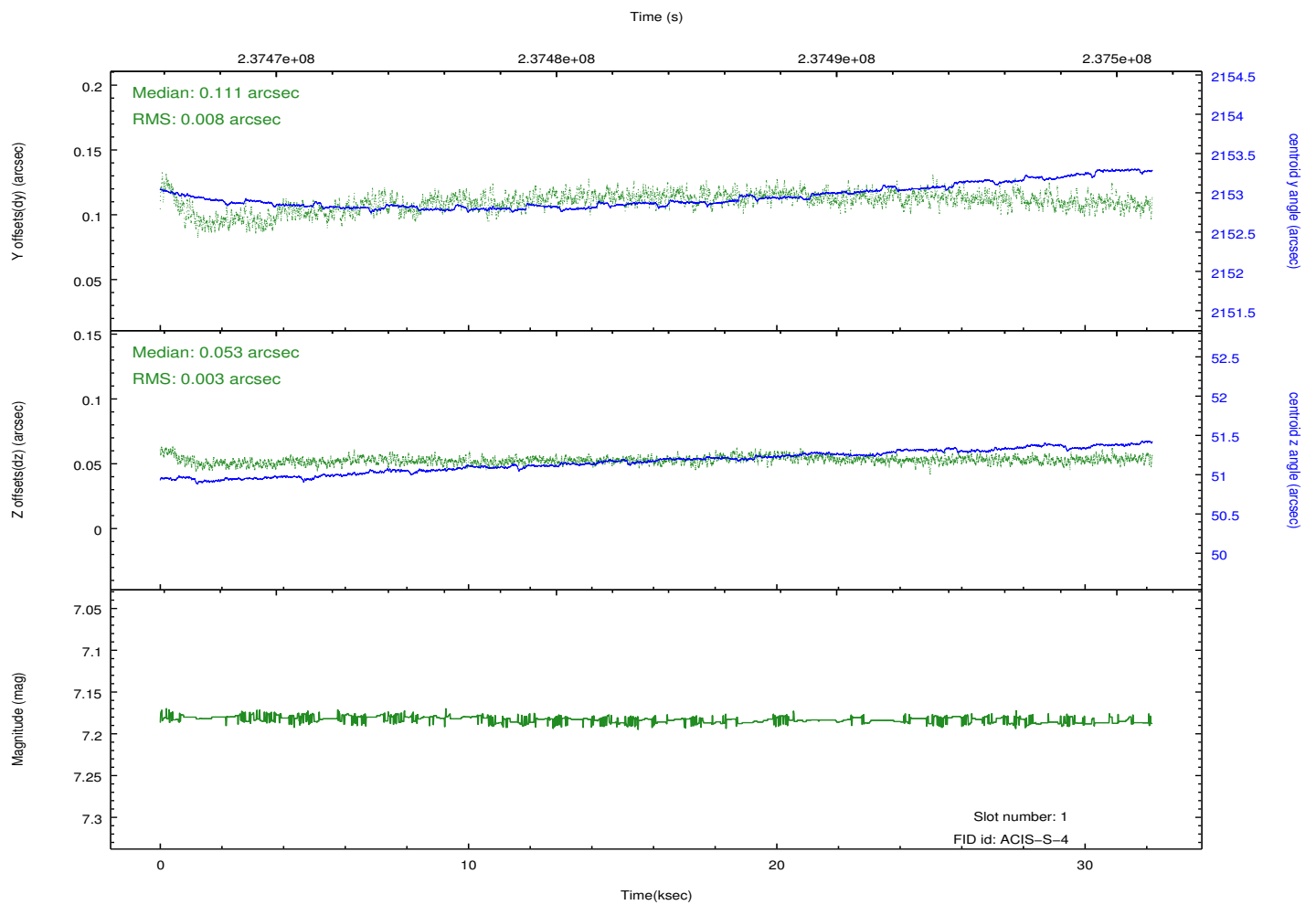
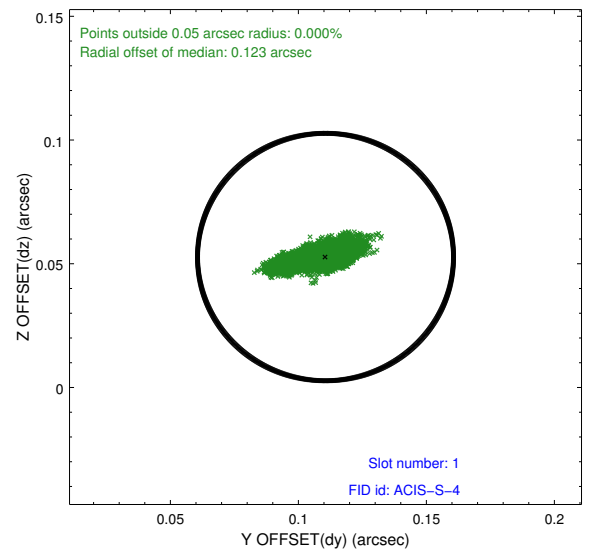
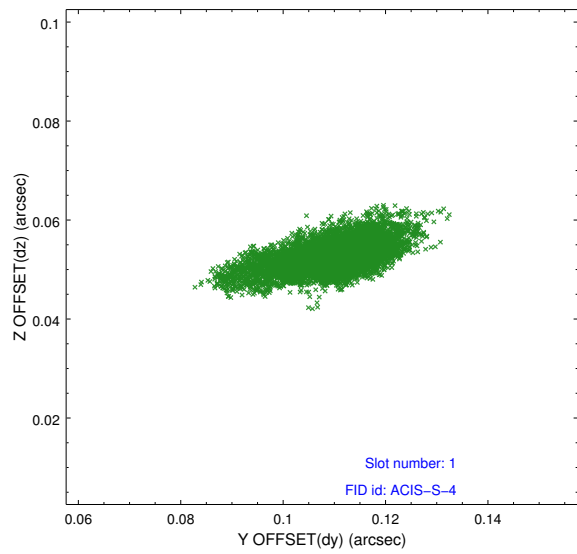


2.5 FID Slots

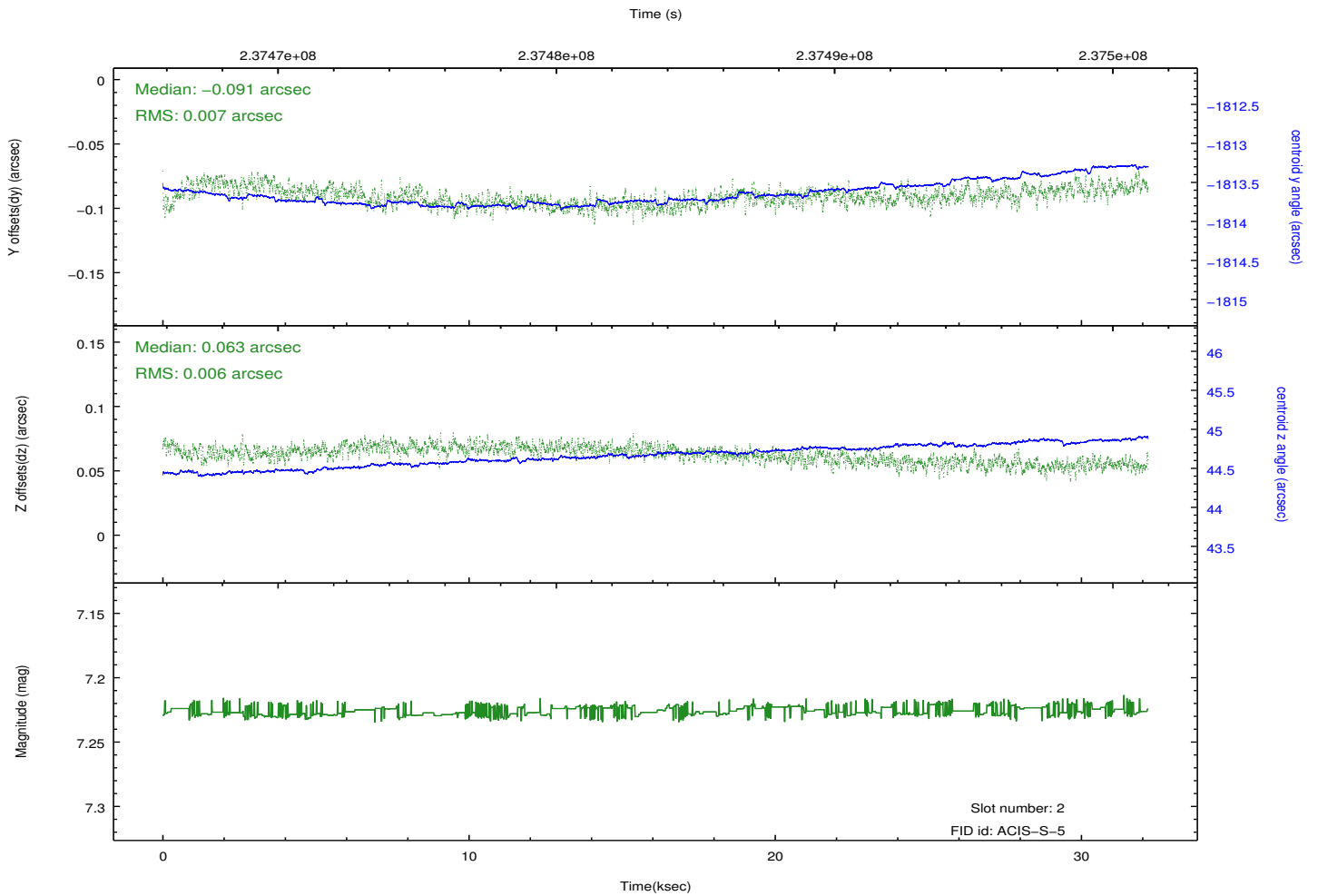
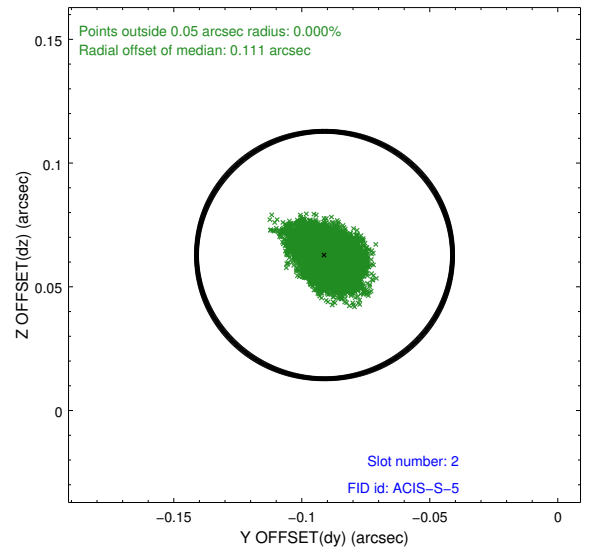
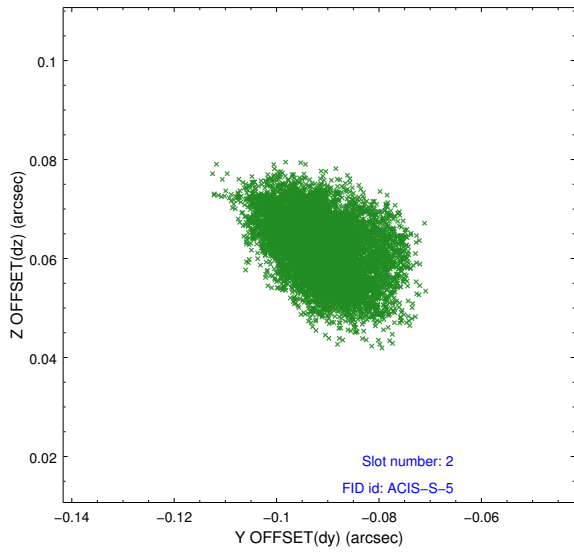
2.5.1 Slot 0



2.5.2 Slot 1

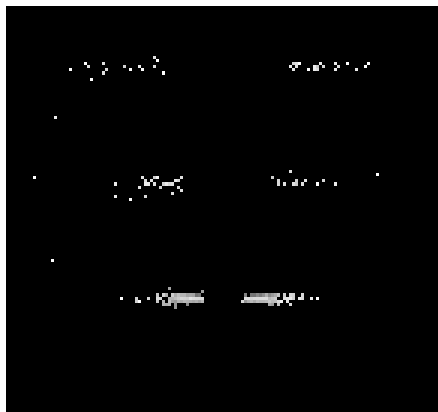


2.5.3 Slot 2

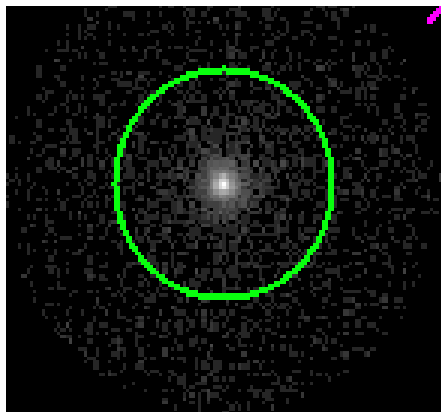


3 Gratings

3.1 HEG Arm



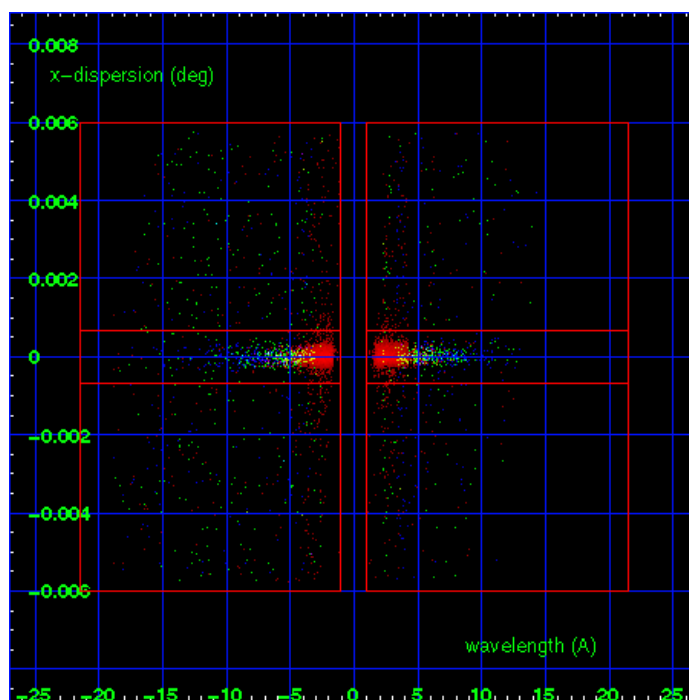
HEG Order Sort 123



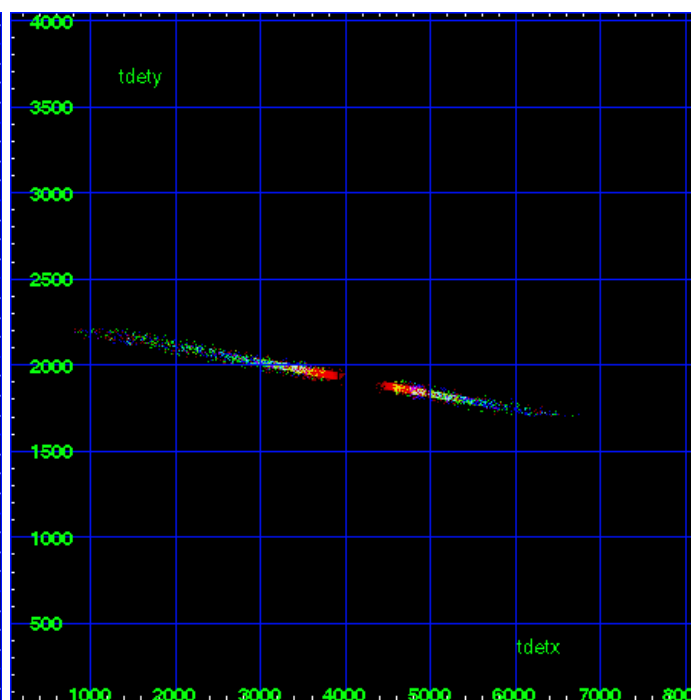
HEG Zero Order



HEG Order Sort ALL

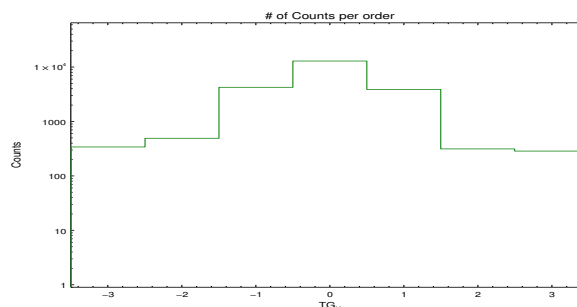


Spot Image HEG

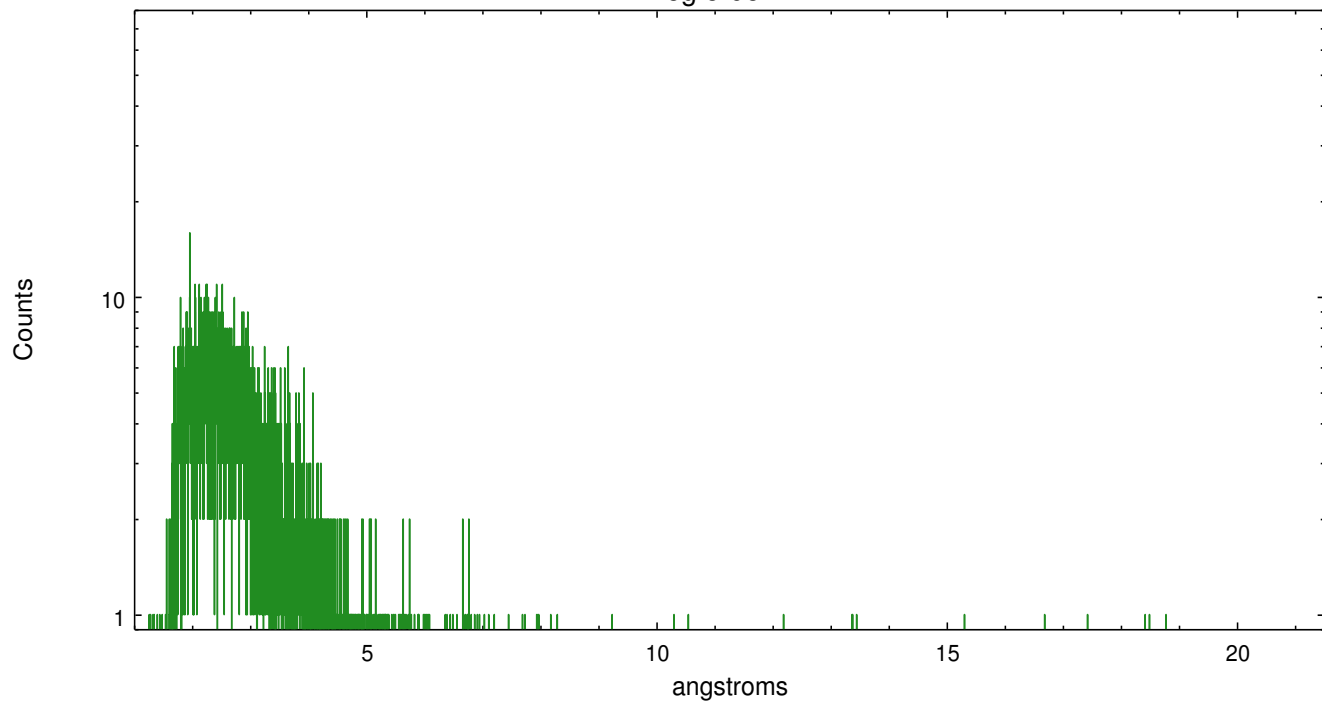


Full Detector HEG

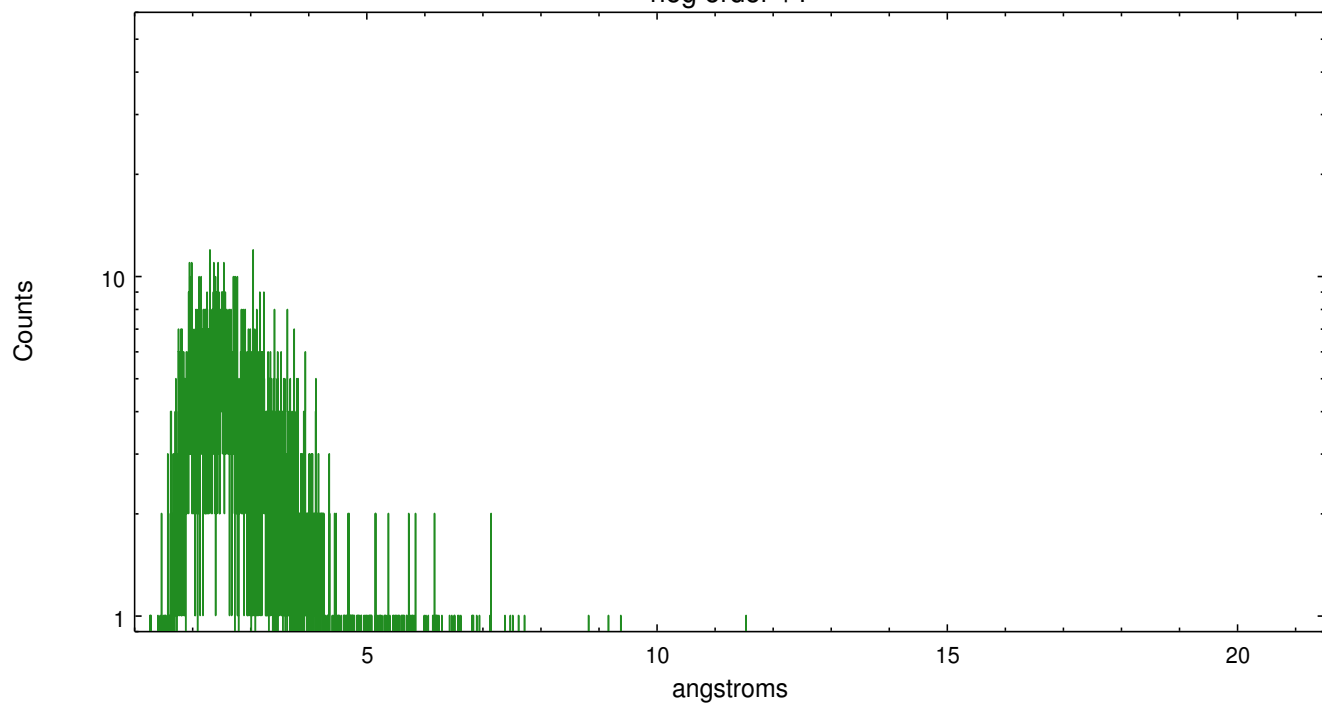
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	341	492	4265	13006	3906	314	286



heg order -1



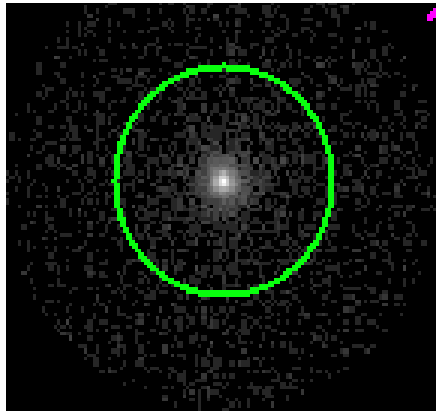
heg order +1



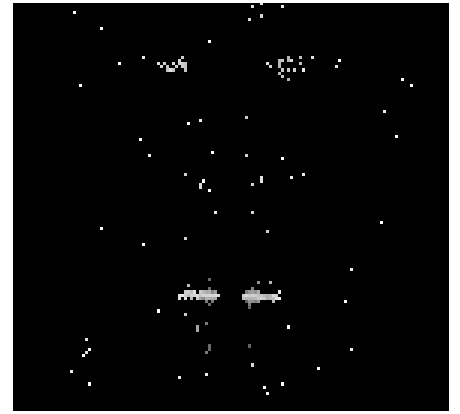
3.2 MEG Arm



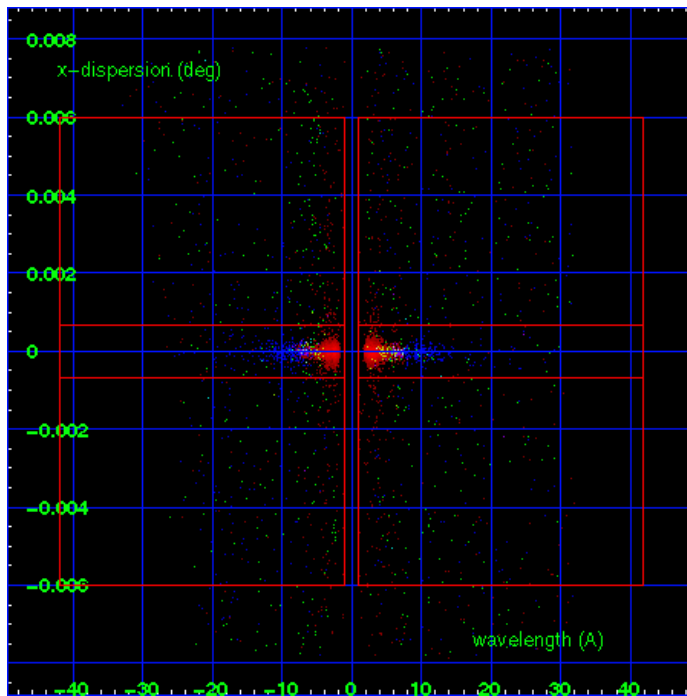
MEG Order Sort 123



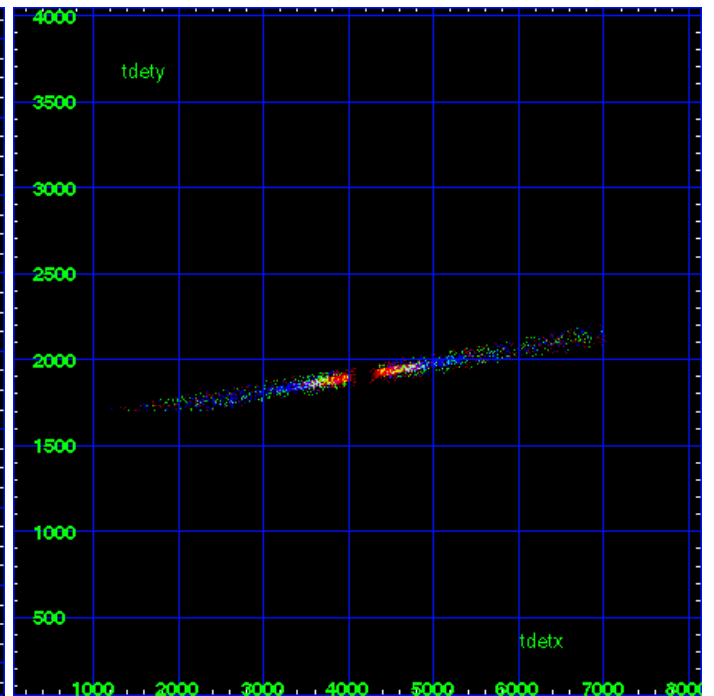
MEG Zero Order



MEG Order Sort ALL

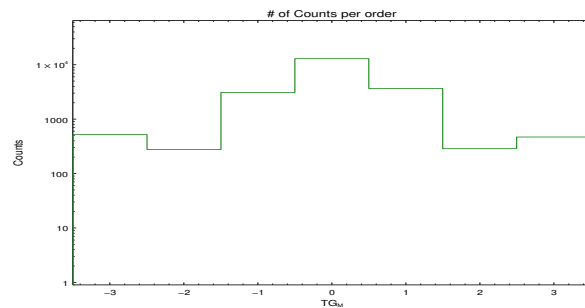


Spot Image MEG

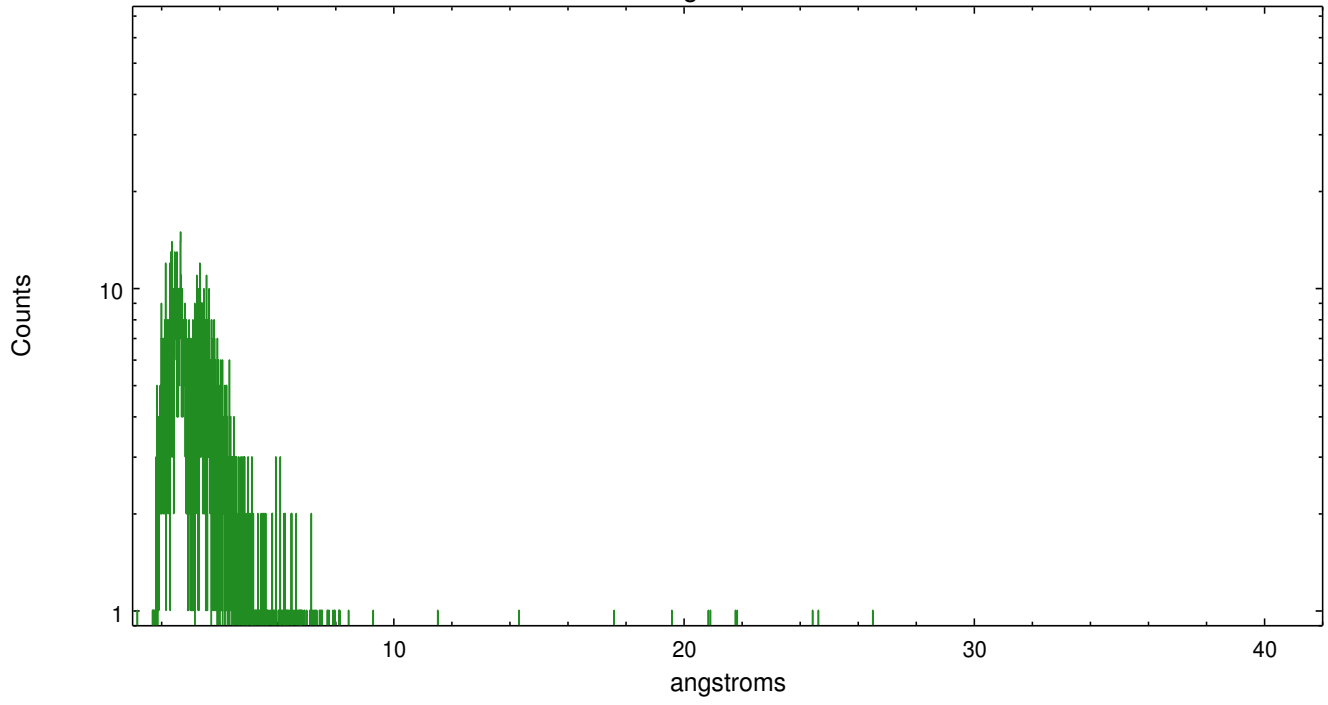


Full Detector MEG

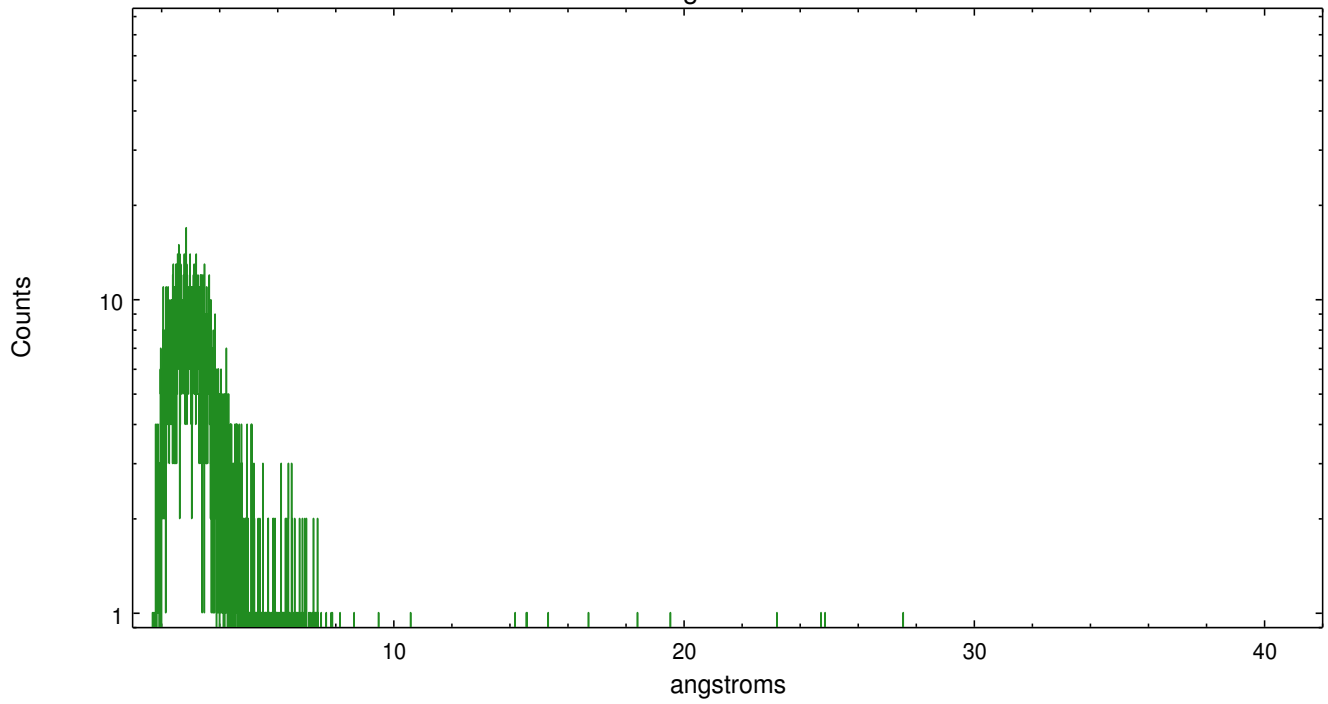
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	520	277	3105	13006	3679	287	470



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.17929

A.2 Comments