

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11993 - L2 Version 2
Chandra X-Ray Center

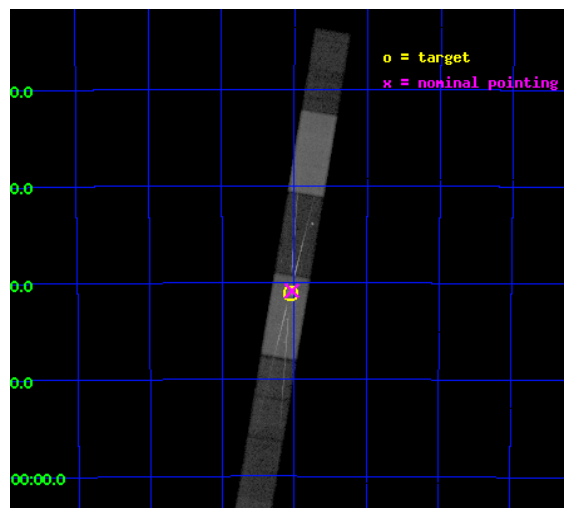
L2 Processing Date : Jul 6 2012

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1 Front

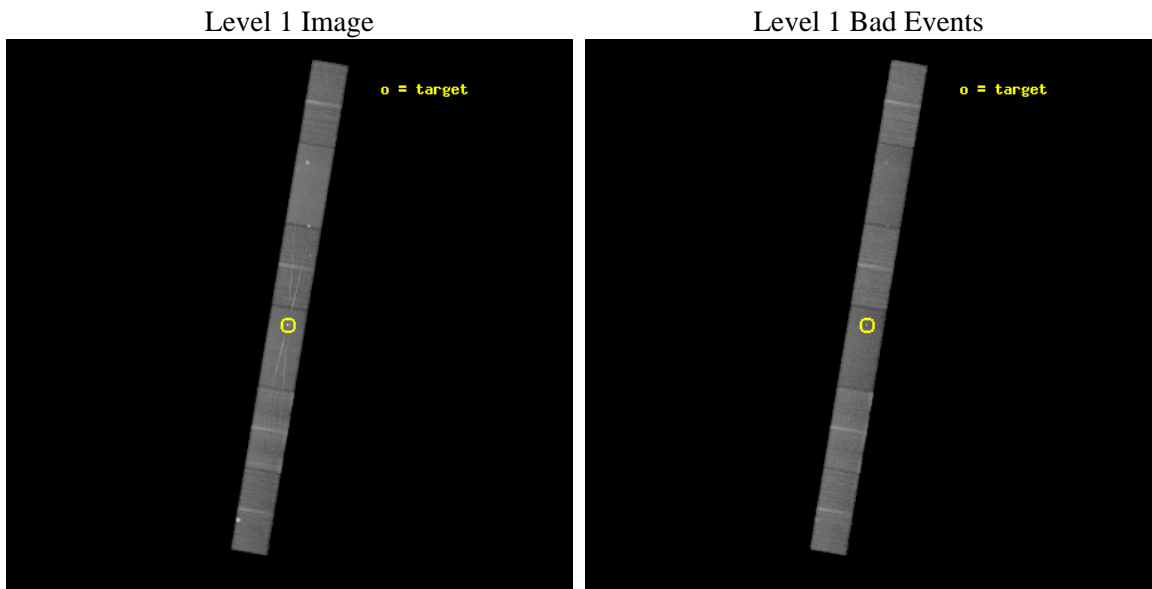
seq_num	200646	Sequence number
obs_id	11993	Observation id
title	Monitoring Dynamical Mass Loss from Eta Car with the HETG	Proposal
observer	Dr Michael Corcoran	Principal investigator
object	Eta Car	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.265	Observer's specified target RA [deg]
dec_targ	-59.684528	Observer's specified target Dec [deg]
ra_nom	161.25870131215	Nominal RA [deg]
dec_nom	-59.680879456912	Nominal Dec [deg]
roll_nom	99.521051390324	Nominal Roll [deg]
revision	2	Processing version of data
ontime	45025.5	Sum of GTIs [s]
livetime	43826.409437782	Livetime [s]
ontime4	45023.958989859	Sum of GTIs [s]
ontime5	45025.5	Sum of GTIs [s]
ontime6	45025.5	Sum of GTIs [s]
ontime7	45025.5	Sum of GTIs [s]
ontime8	45025.5	Sum of GTIs [s]
ontime9	45025.5	Sum of GTIs [s]
l2events	304187	Number of level 2 events



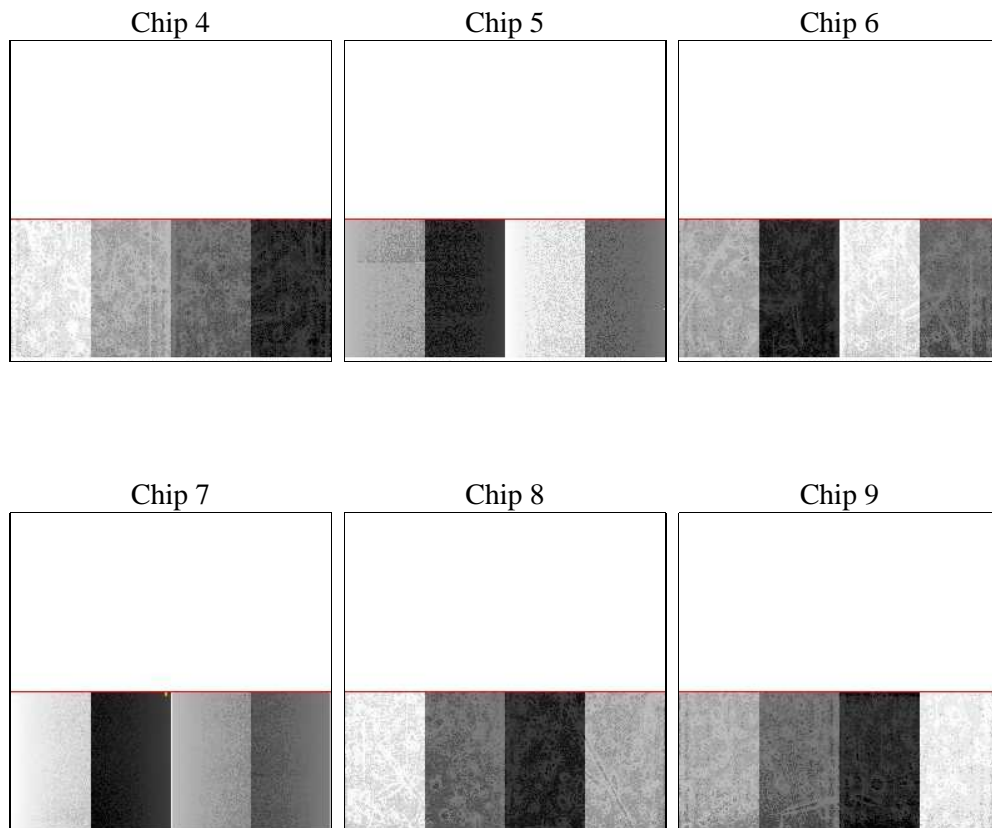
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	45025.5	Sum of GTIs [s]
caldsver	4.5.0	 	ontime4	45023.958989859	Sum of GTIs [s]
date	2012-07-06T15:59:02	Date and time of file creation	ontime5	45025.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	45025.5	Sum of GTIs [s]
			ontime7	45025.5	Sum of GTIs [s]
			ontime8	45025.5	Sum of GTIs [s]
			ontime9	45025.5	Sum of GTIs [s]
			l1events	1129507	Number of level 1 events

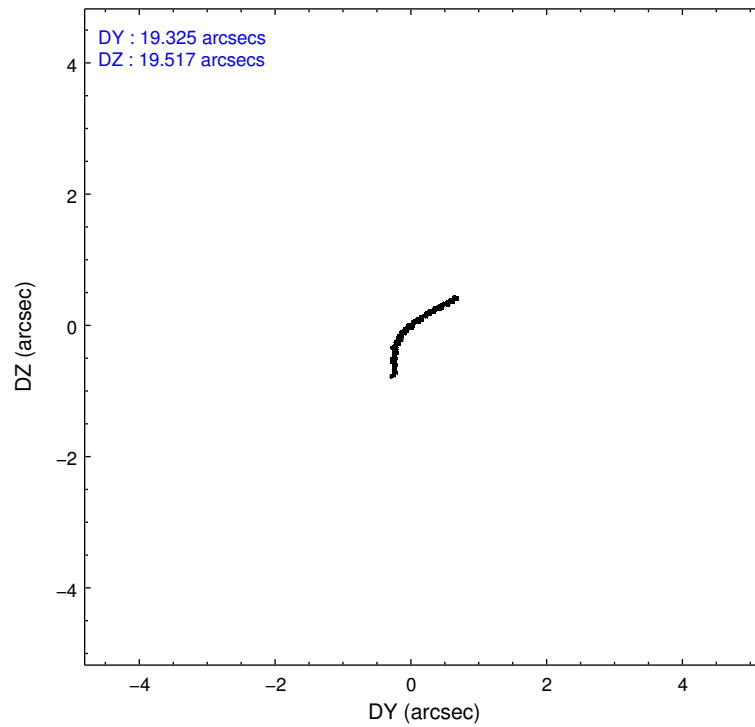
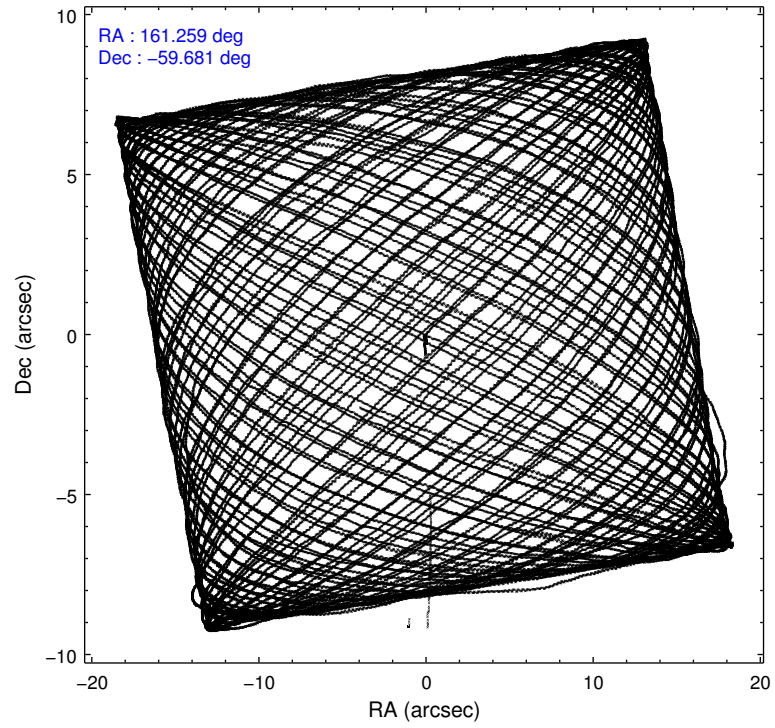
2.1.4 Events

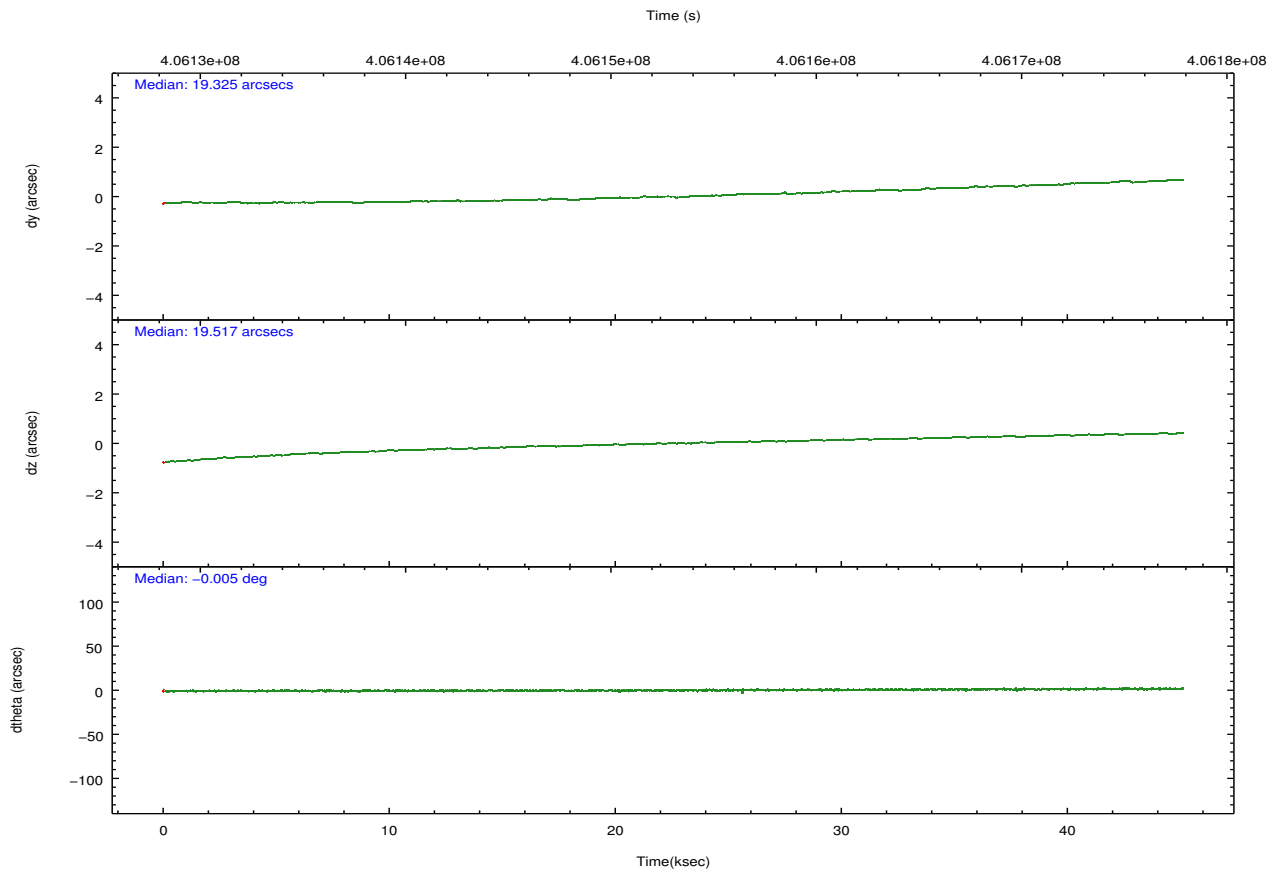
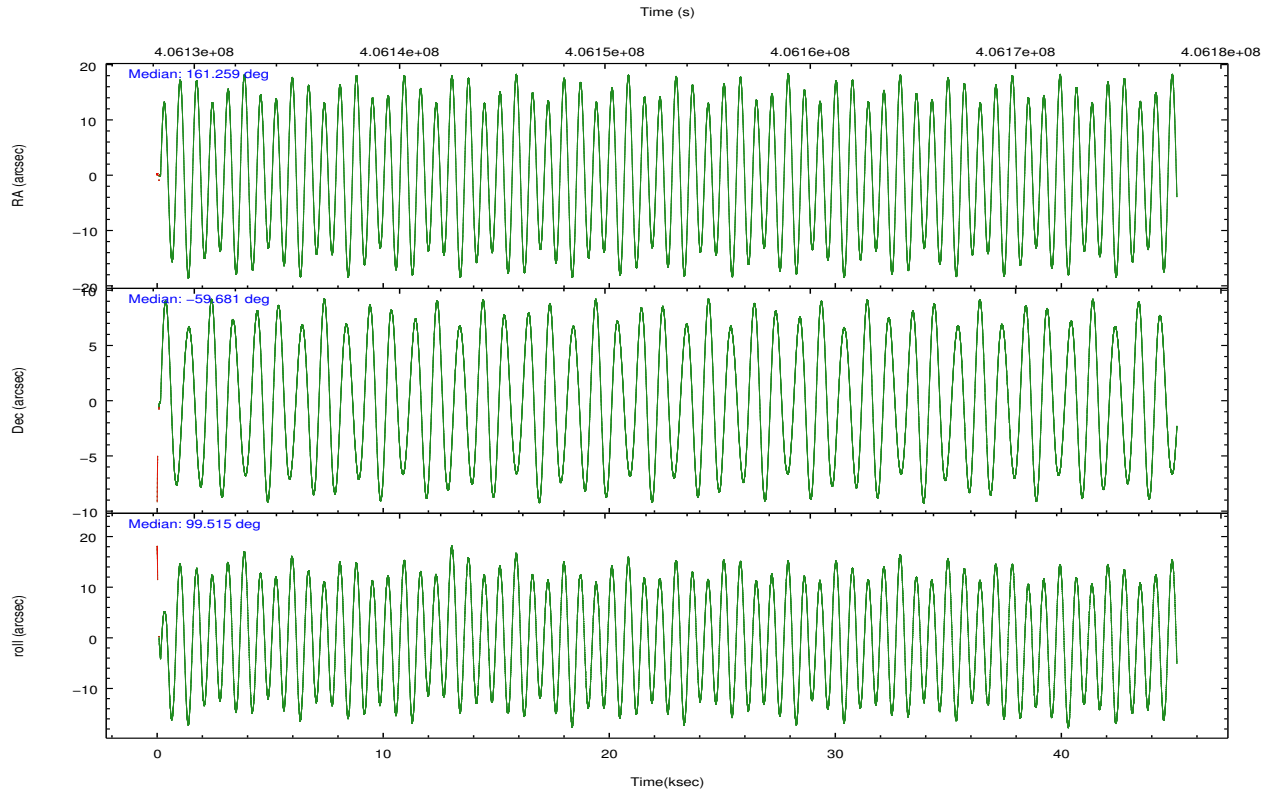
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	169162	220044	167186	210584	205838	156693	grade 0 events	8538	12547	16712	14491	19994	8085
rejected events	148393	105601	135093	94500	146659	124208		5%	5%	9%	6%	9%	5%
rejected %	87%	47%	80%	44%	71%	79%	grade 1 events	82	533	95	434	123	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	4734	33851	5602	25121	12142	16289
								2%	15%	3%	11%	5%	10%
							grade 3 events	2258	7223	2741	11720	6217	2315
								1%	3%	1%	5%	3%	1%
							grade 4 events	2113	6891	2783	11558	5927	2212
								1%	3%	1%	5%	2%	1%
							grade 5 events	5881	18777	5910	18957	8913	6602
								3%	8%	3%	9%	4%	4%
							grade 6 events	3166	54164	4304	53361	15016	3638
								1%	24%	2%	25%	7%	2%
							grade 7 events	142390	86058	129039	74942	137506	117492
								84%	39%	77%	35%	66%	74%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	161.293722	161.2587013121458	CCD I2 on	N	N
[deg] Pointing Dec	-59.701730	-59.68087945691155	CCD I3 on	N	N
[deg] Pointing Roll	99.394657	99.52105139032436	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-183.332523	-183.3237572673427	CCD S3 on	Y	Y
[mm] SIM translation stage offset	-6.8	-6.808765315665084	CCD S4 on	Y	Y
[s] Observation start time (MET)	406130577.184000	406128822.89871	CCD S5 on	O2	Y
Observation start date	2010-11-14T14:01:51	2010-11-14T13:33:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	406175577.184000	406176780.08868	On-chip summing requested	N	N
Observation end date	2010-11-15T02:31:51	2010-11-15T02:53:00	Subarray requested	CUSTOM	CUSTOM
Read mode	TIMED	TIMED	Subarray start row	15	15
			Subarray row count	440	440
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.5

2.3 Aspect



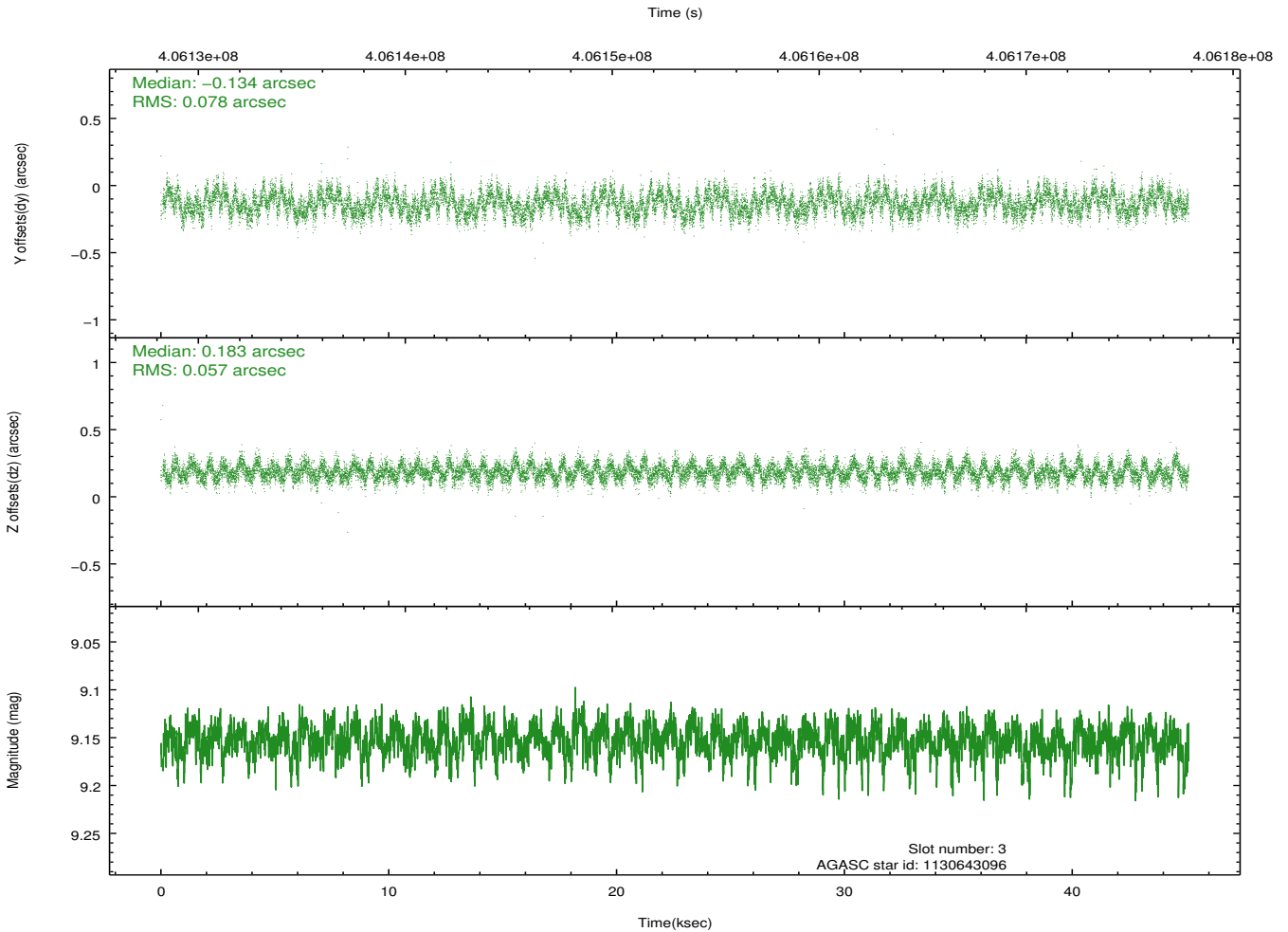
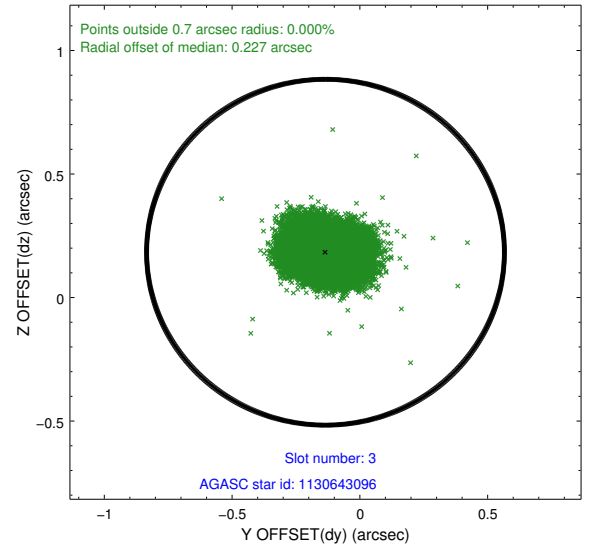
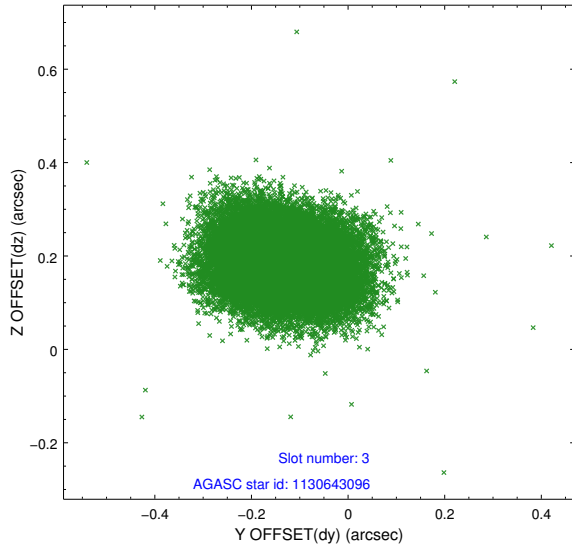


Slot Statistics

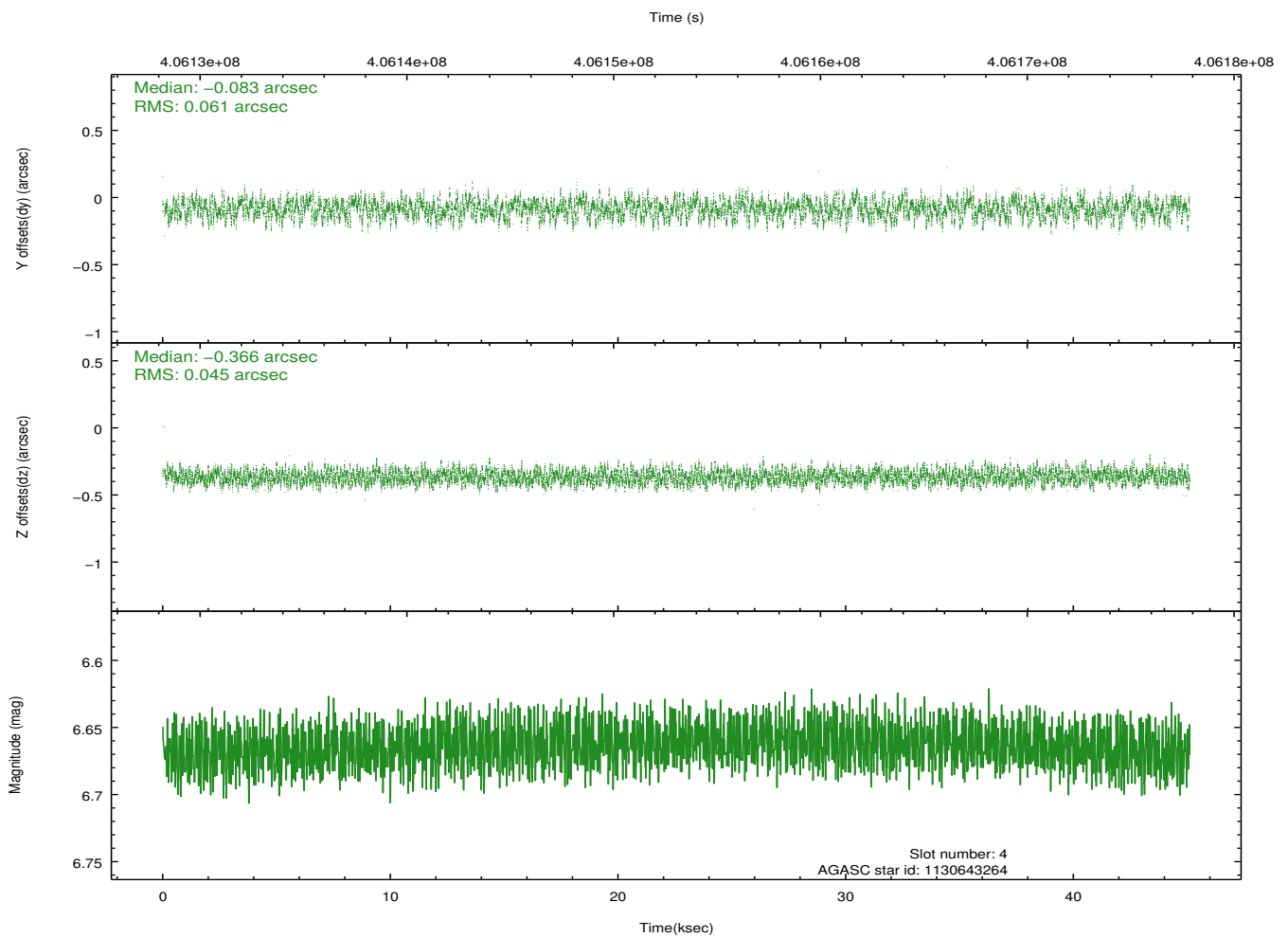
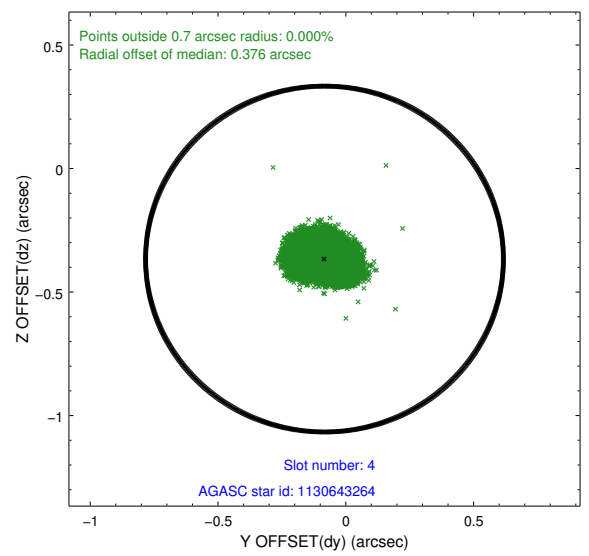
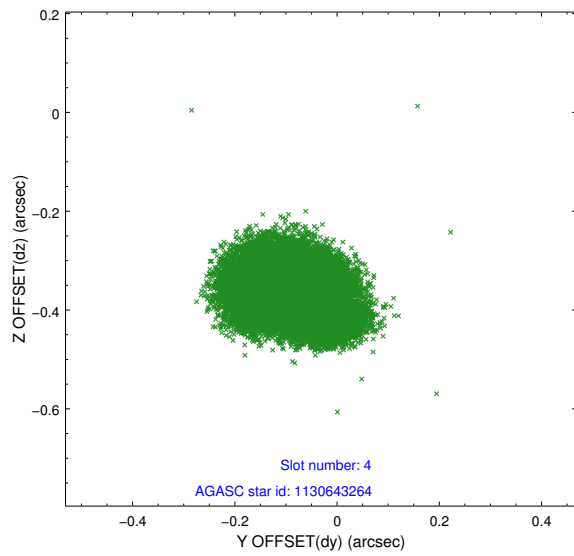
	status	id	mag	n_pts	med_dy	med_dz	dr1
	FID	ACIS-S-1	6.95	10990	0.109	0.138	0.007
	FID	ACIS-S-2	6.89	10989	-0.198	-0.105	0.014
	FID	ACIS-S-6	7.15	10990	0.069	-0.028	0.015
	GUIDE	1130643096	9.15	21960	-0.134	0.183	0.104
	GUIDE	1130643264	6.66	21978	-0.083	-0.366	0.082
	GUIDE	1174012960	7.14	21973	0.113	-0.069	0.076
	GUIDE	1174033752	8.46	21898	0.104	0.252	0.107
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00	

2.4 Star Slots

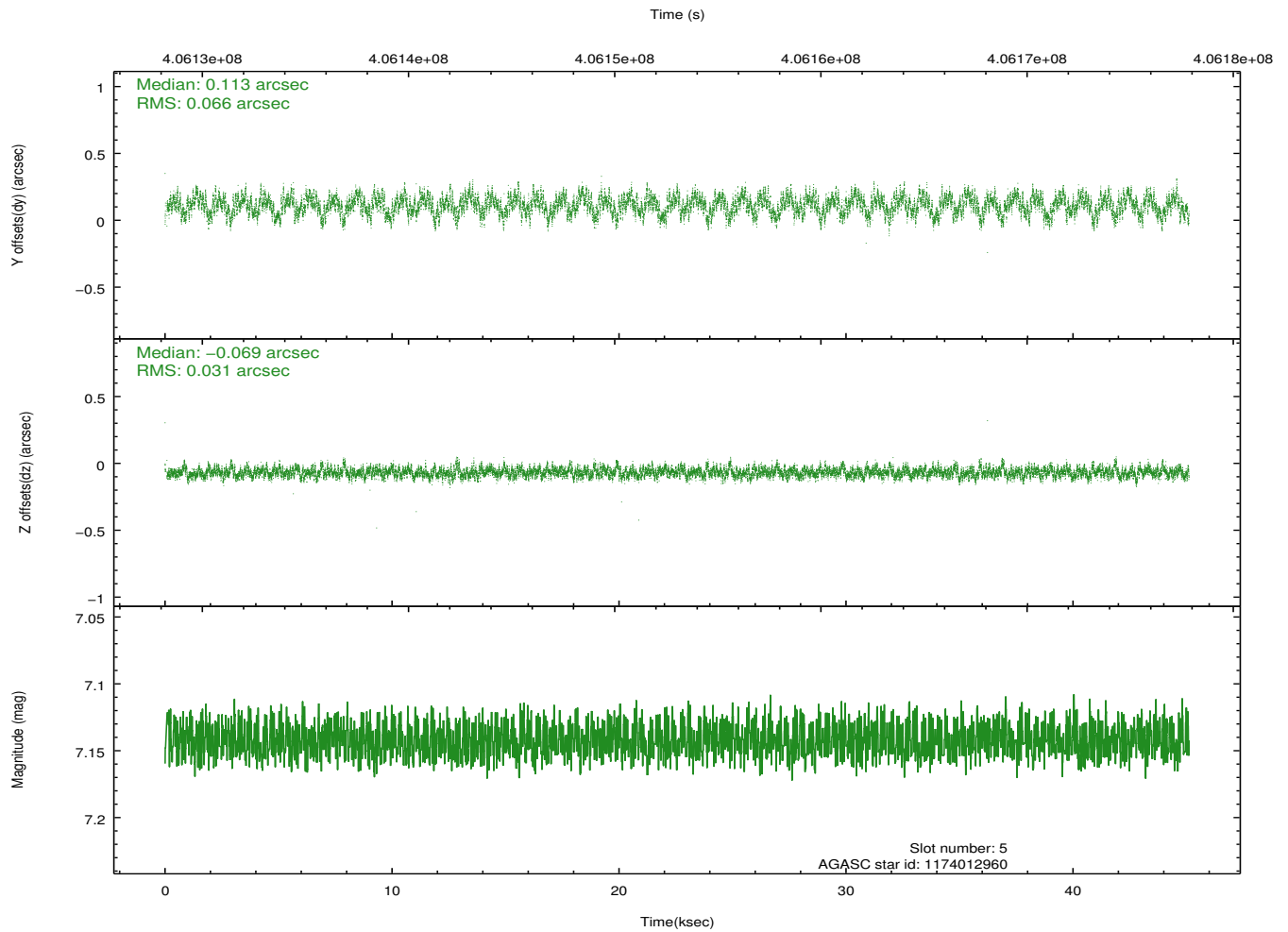
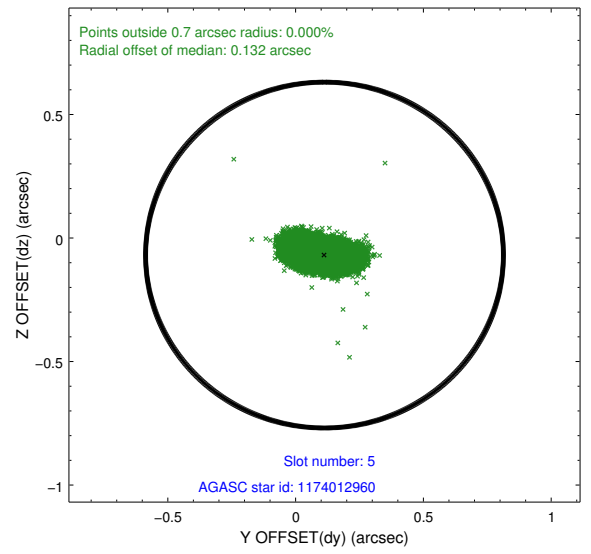
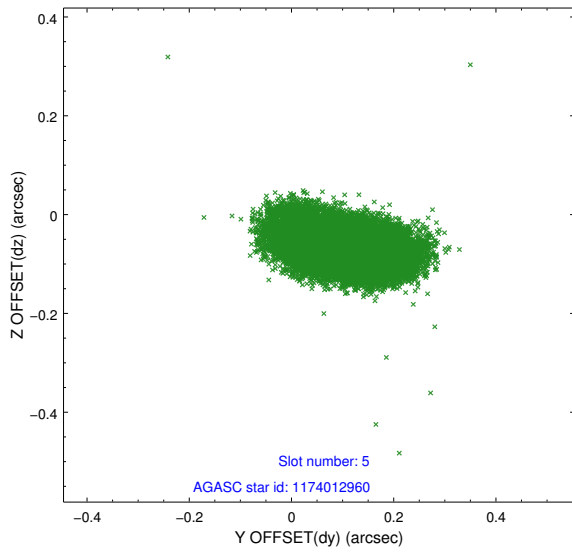
2.4.1 Slot 3



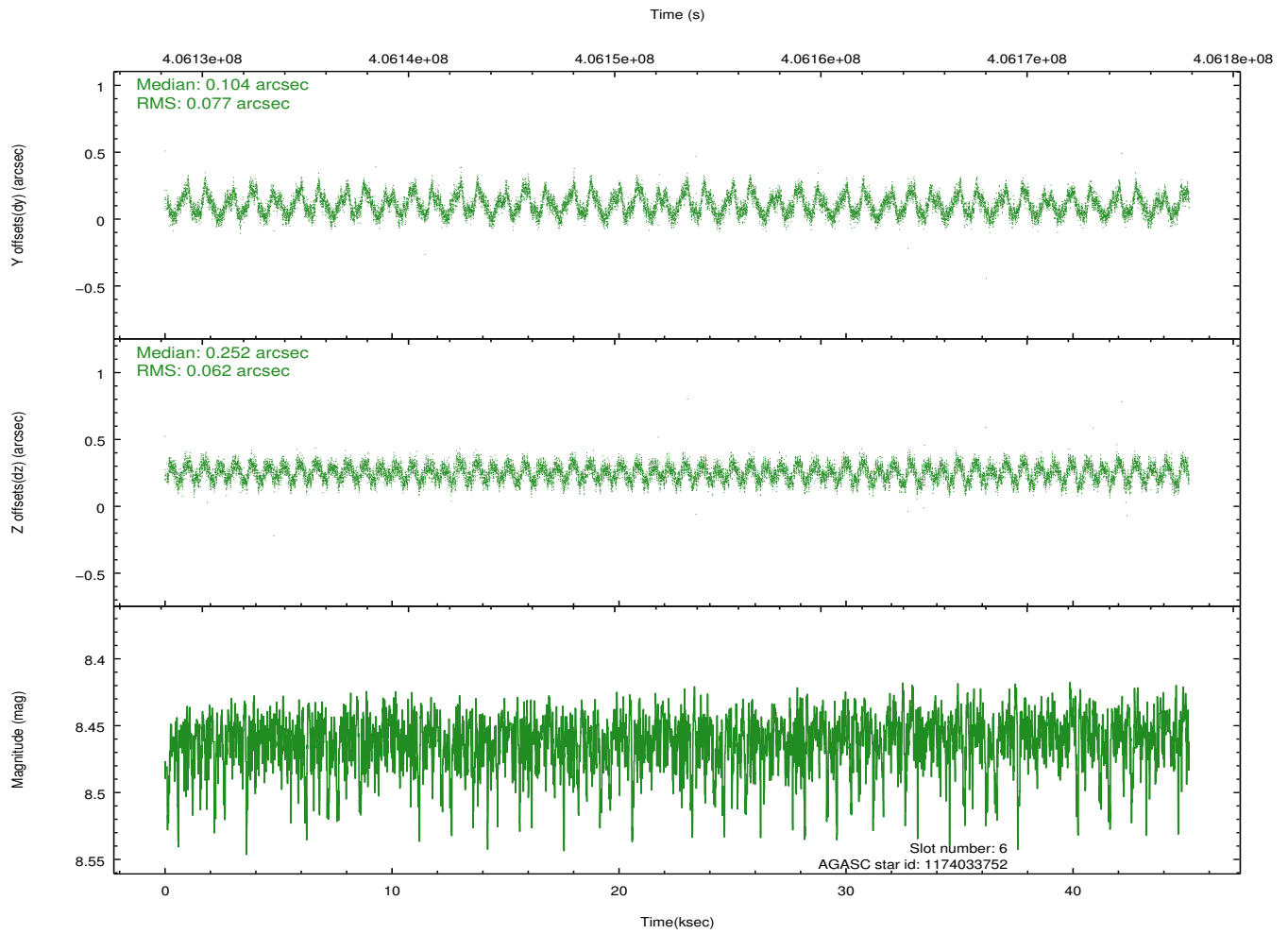
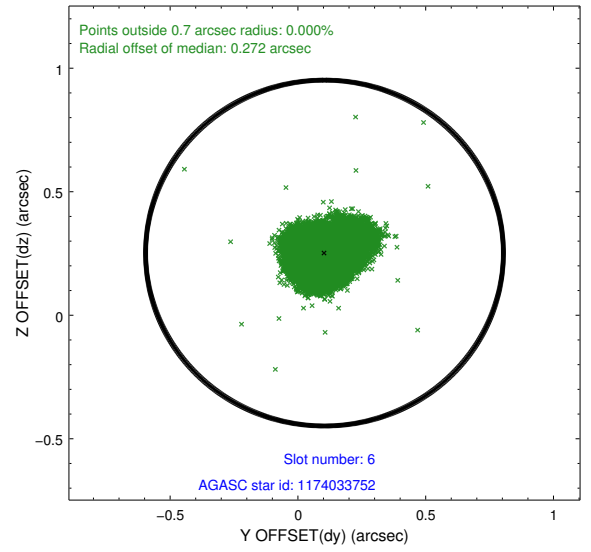
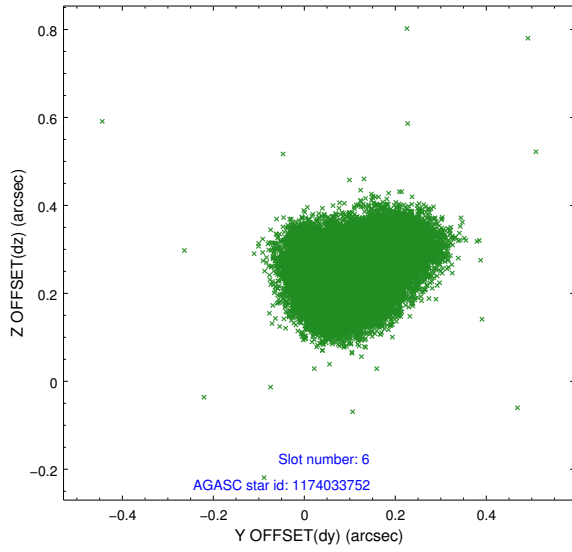
2.4.2 Slot 4



2.4.3 Slot 5

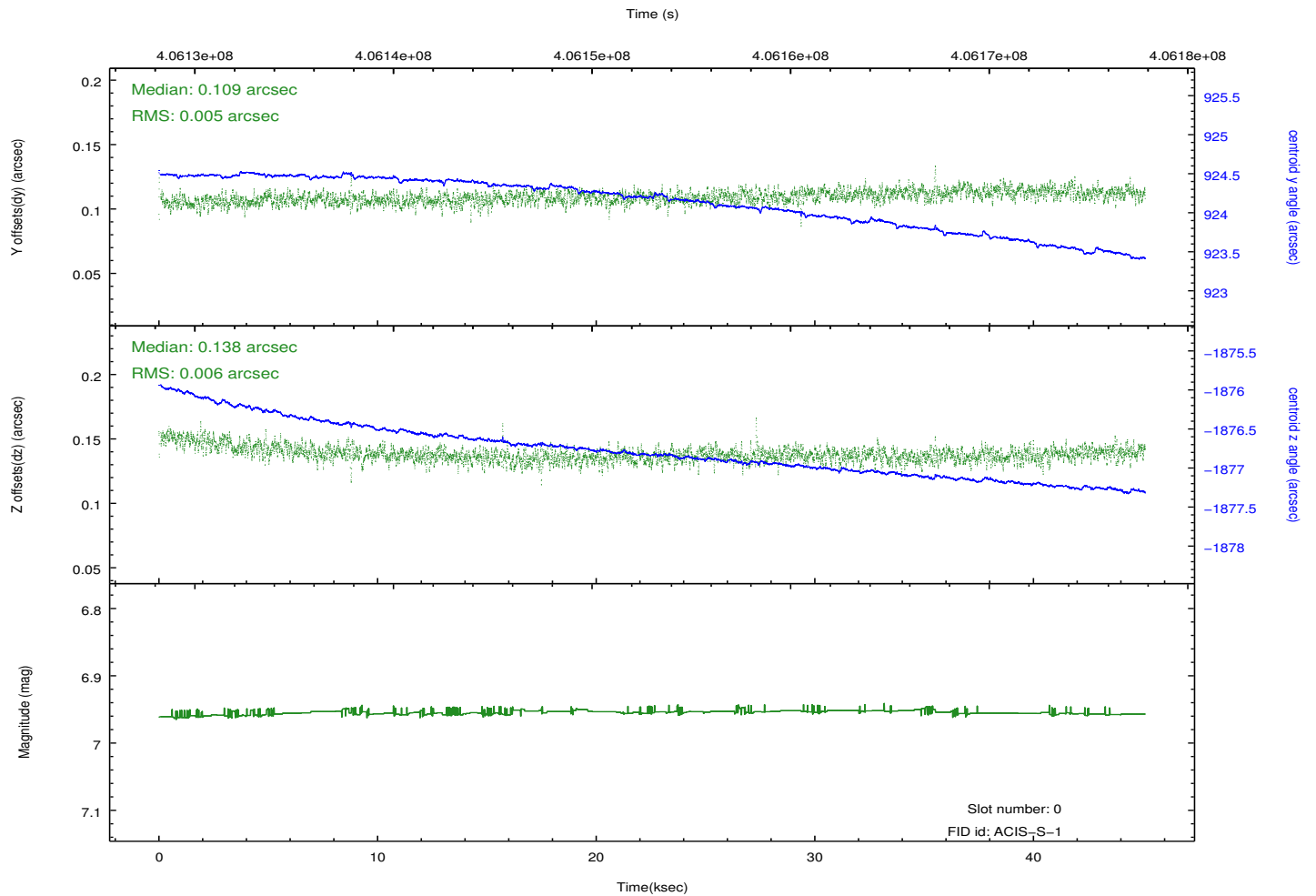
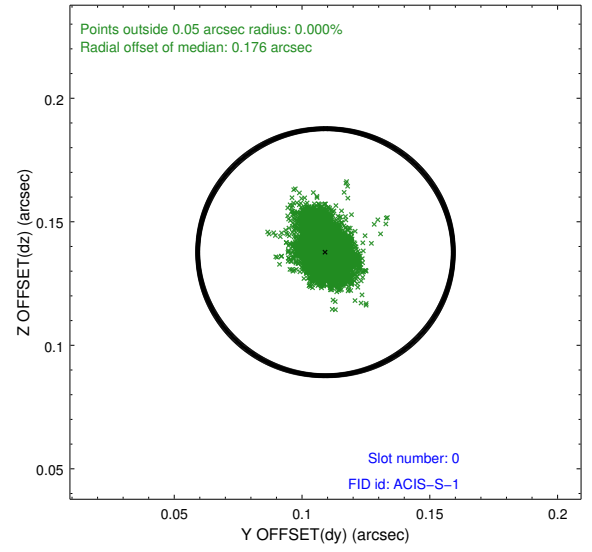
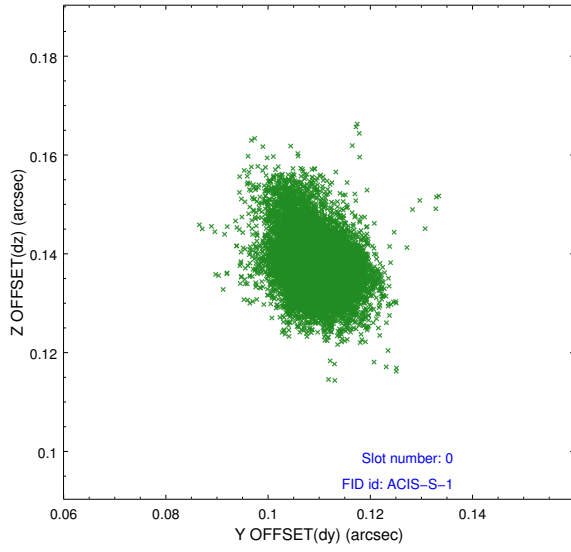


2.4.4 Slot 6

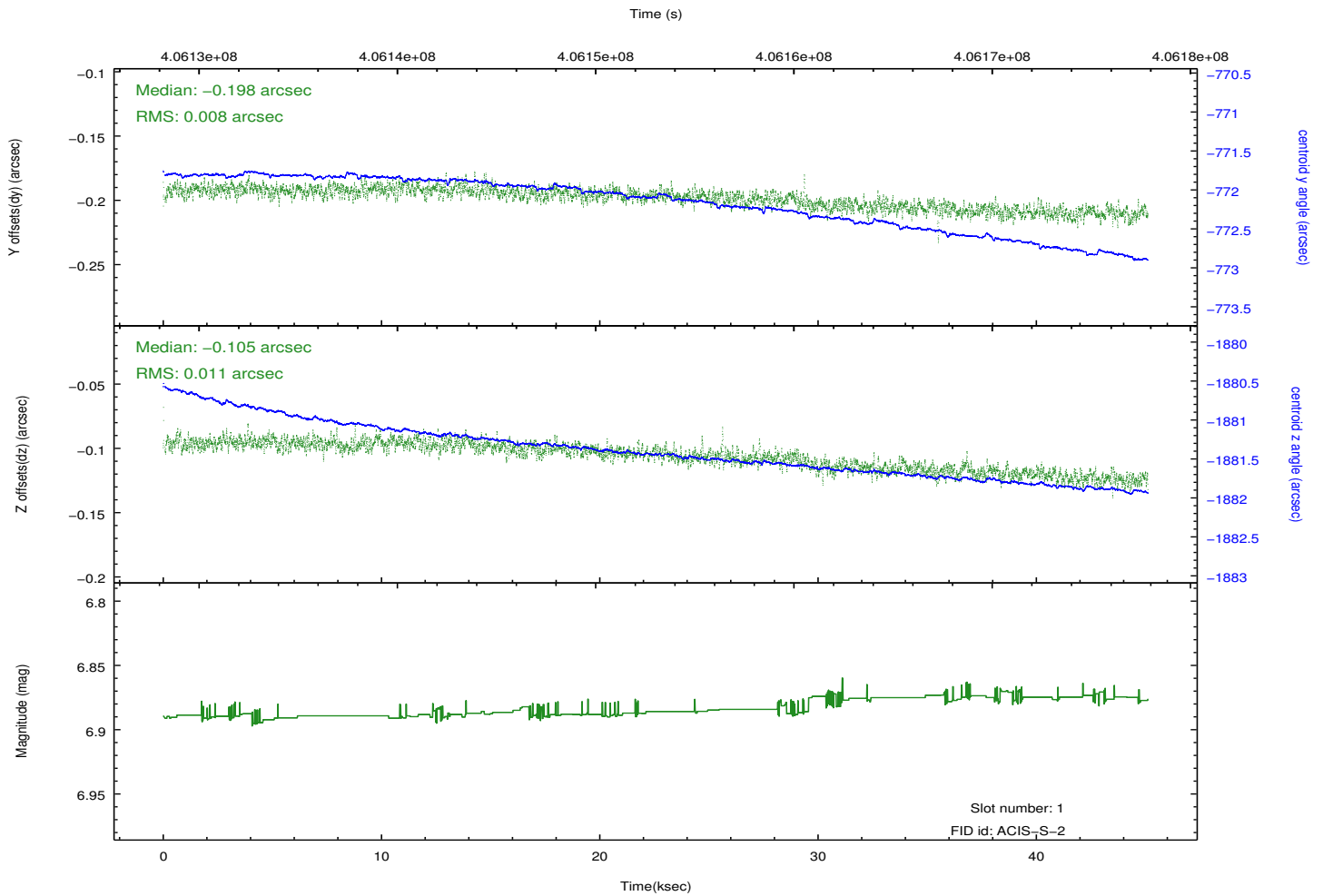
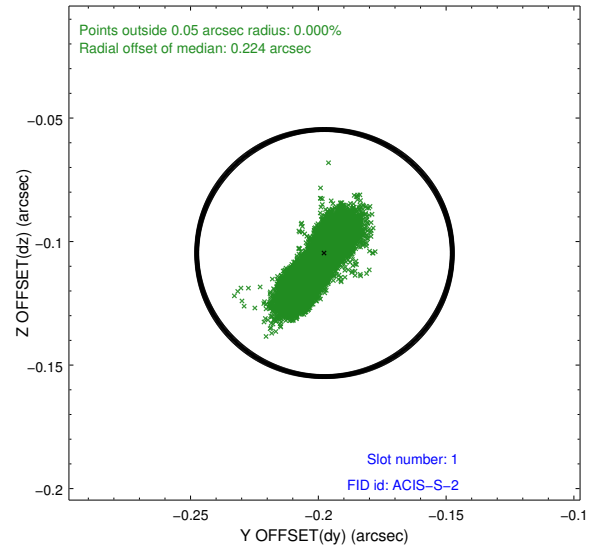
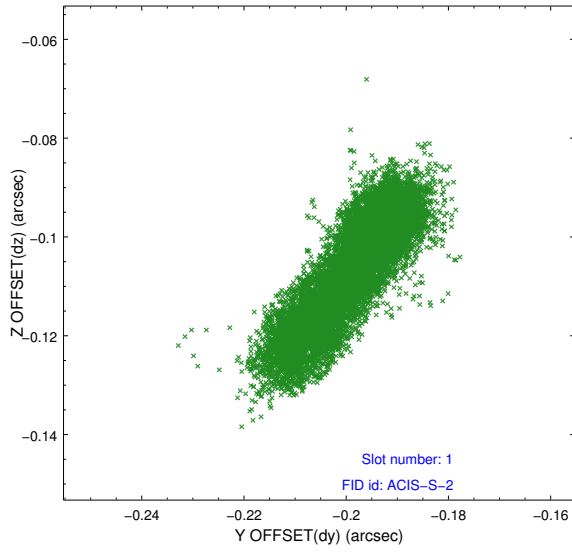


2.5 FID Slots

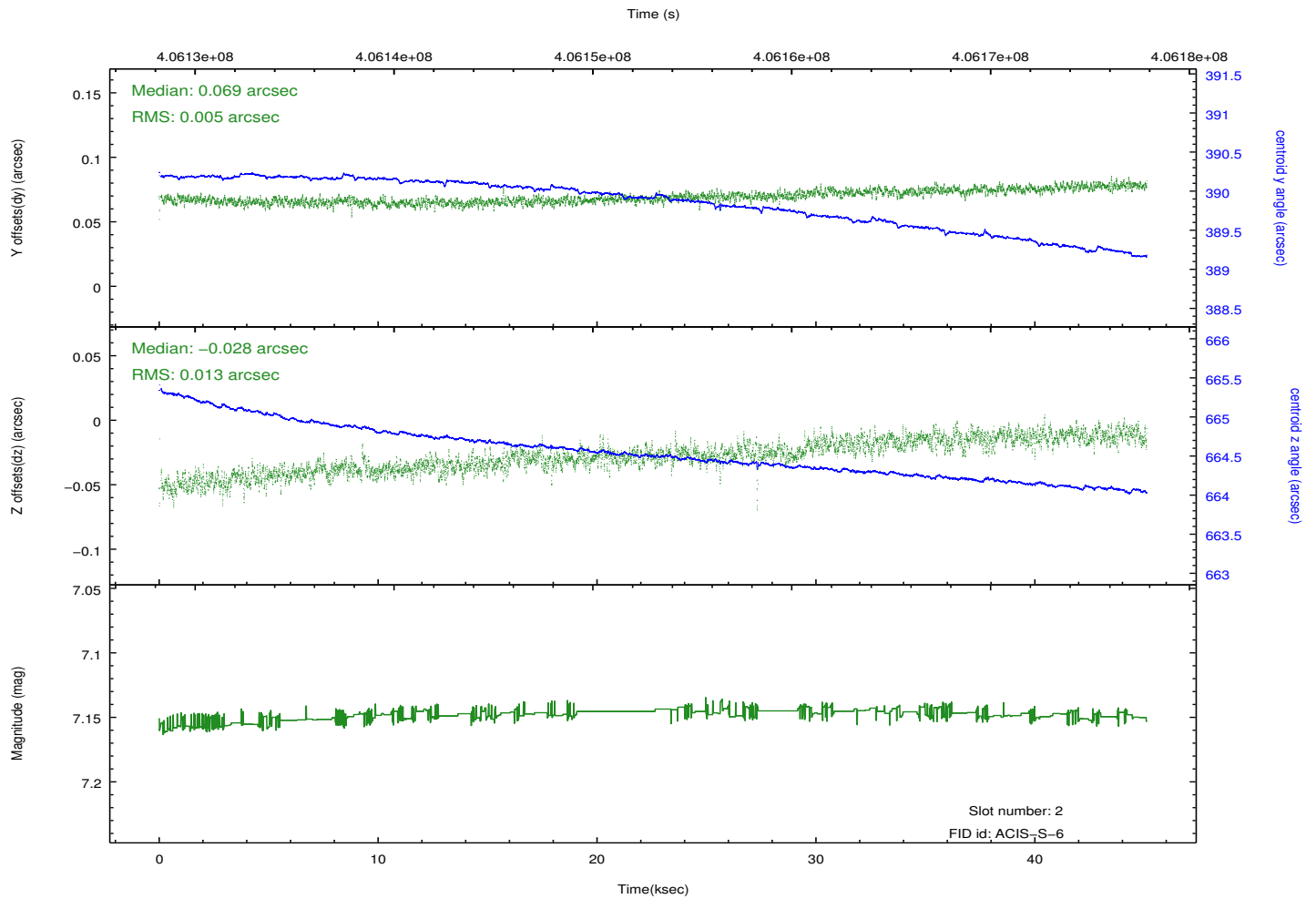
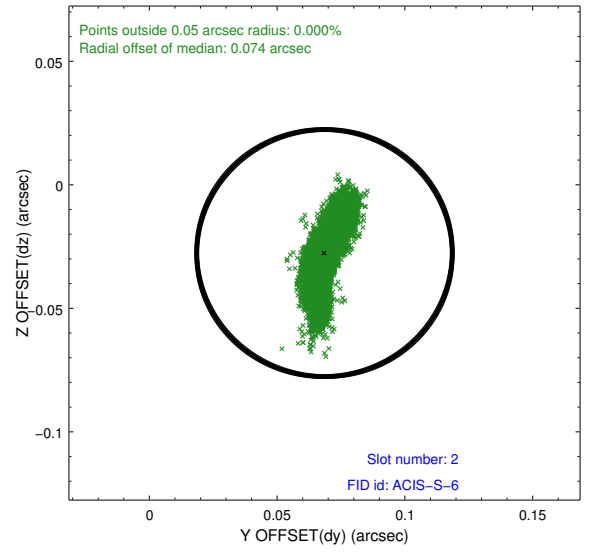
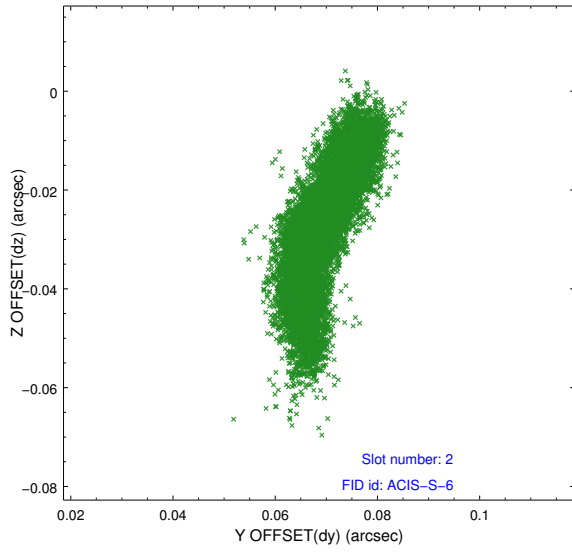
2.5.1 Slot 0



2.5.2 Slot 1

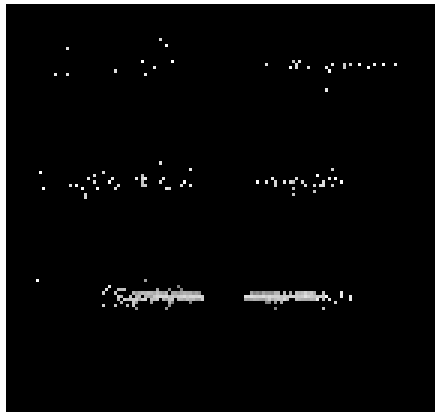


2.5.3 Slot 2

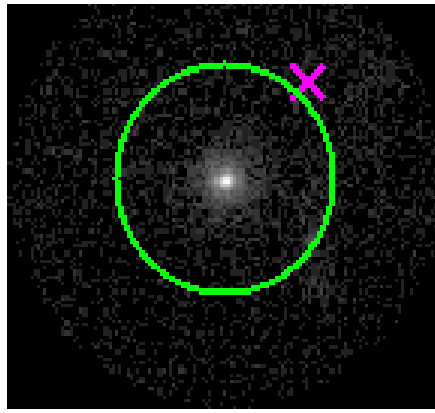


3 Gratings

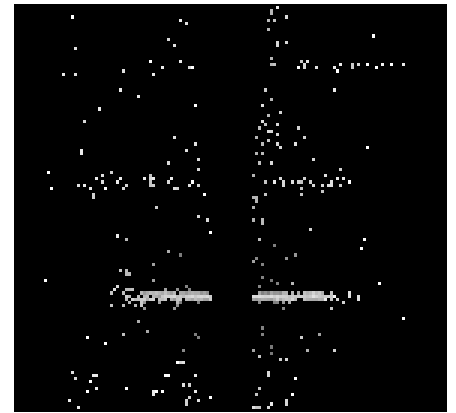
3.1 HEG Arm



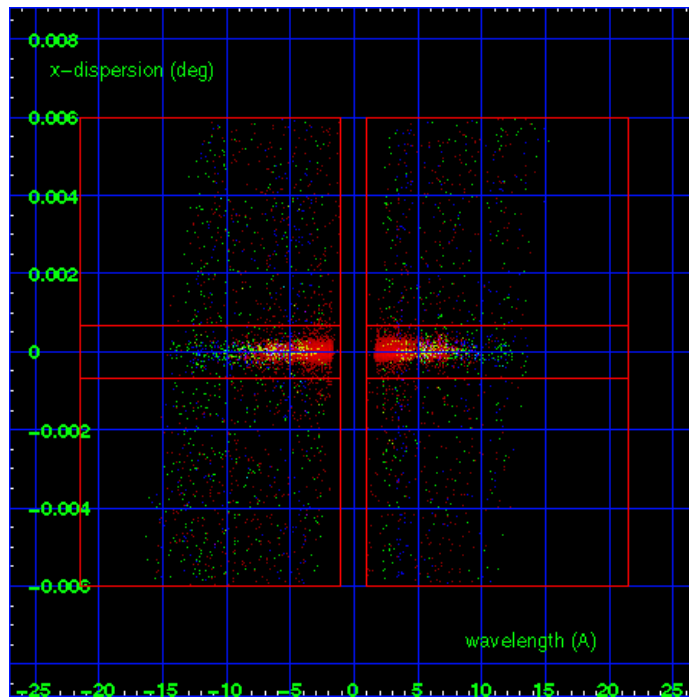
HEG Order Sort 123



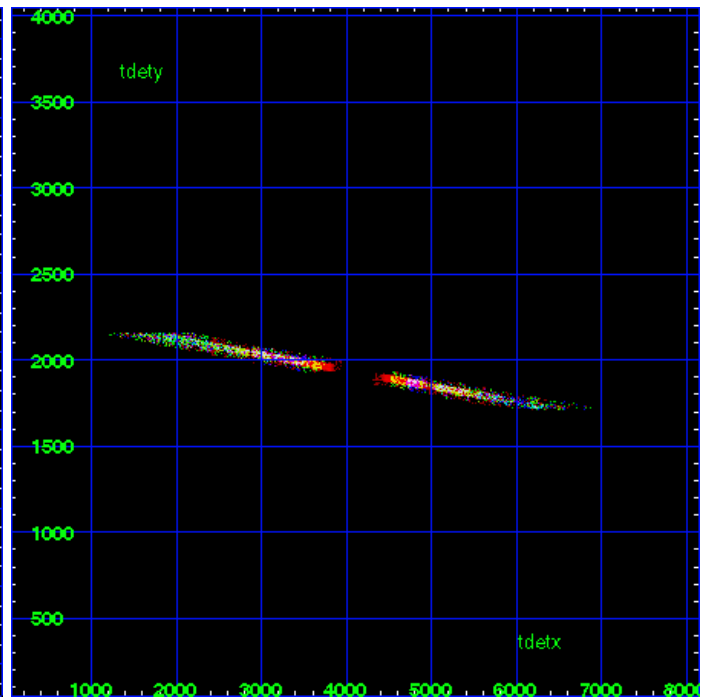
HEG Zero Order



HEG Order Sort ALL

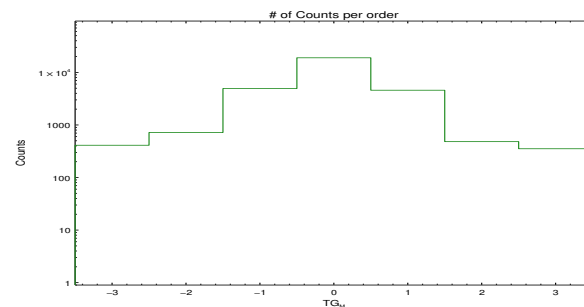


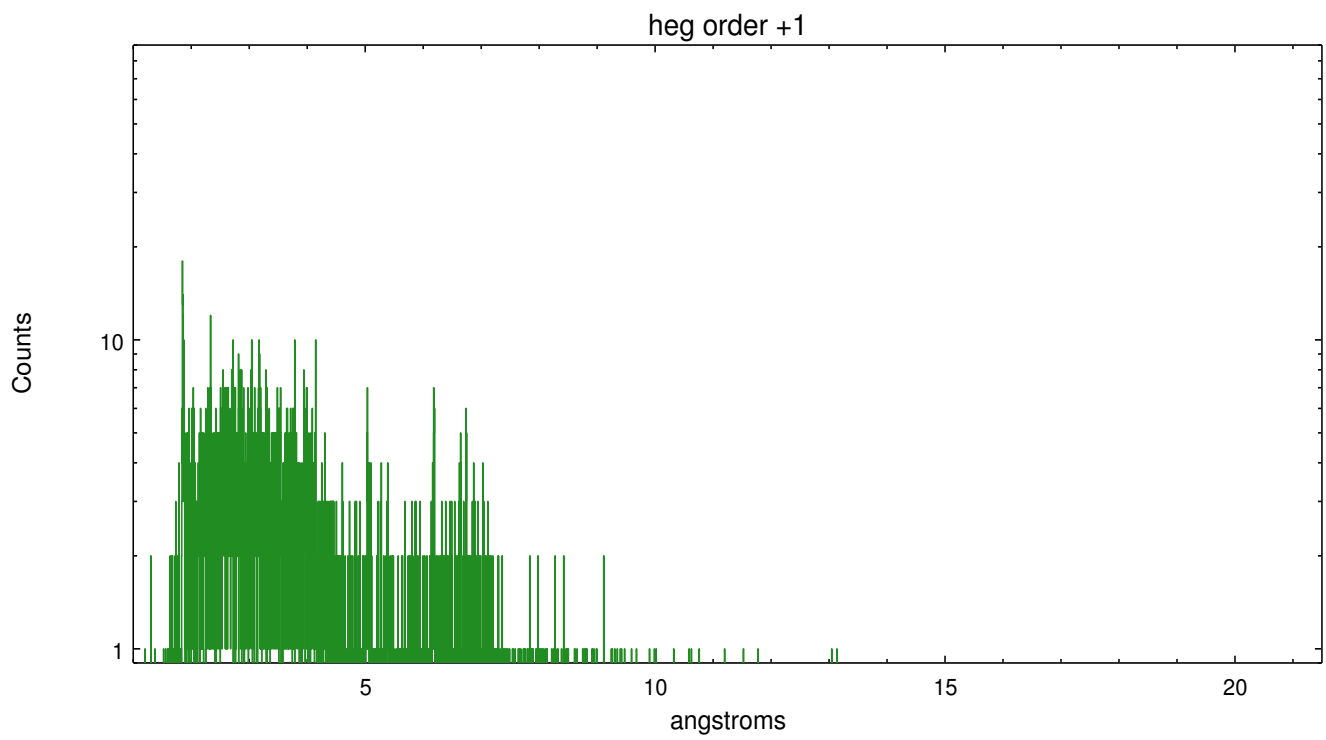
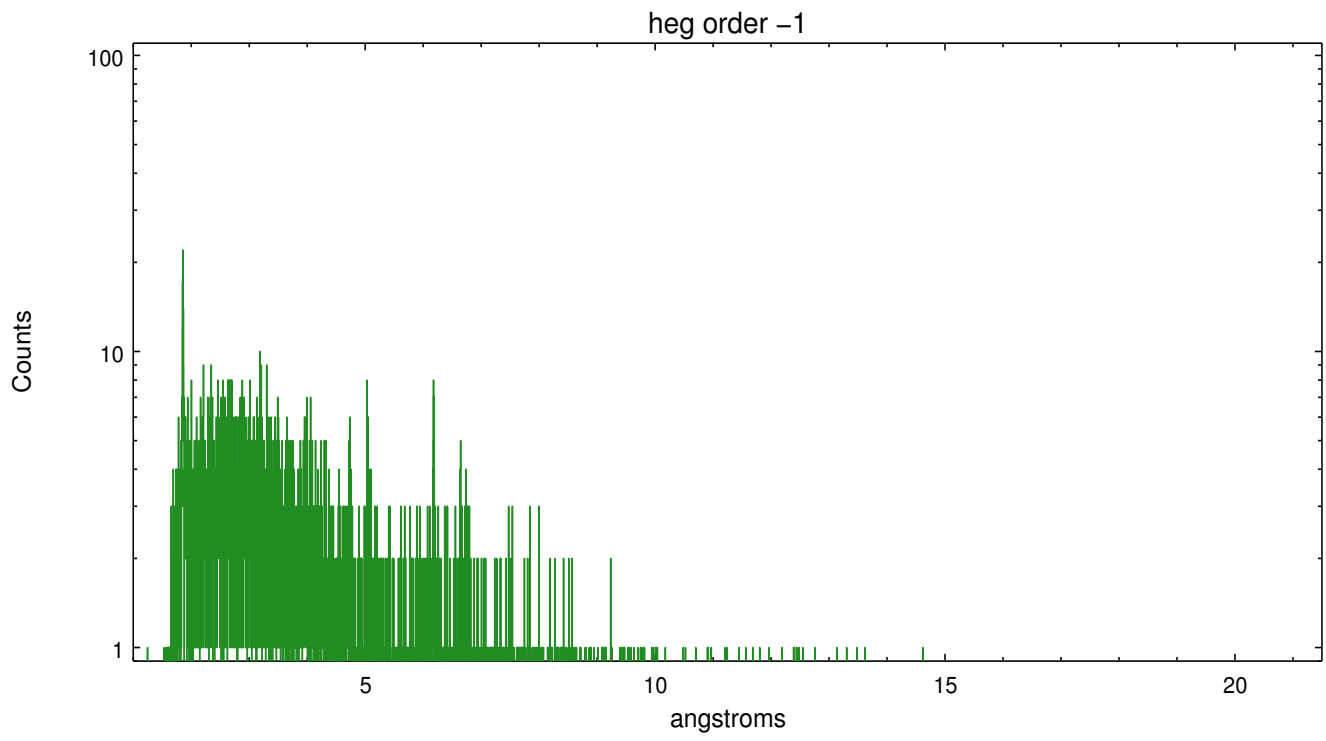
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	411	719	4932	18977	4580	482	353

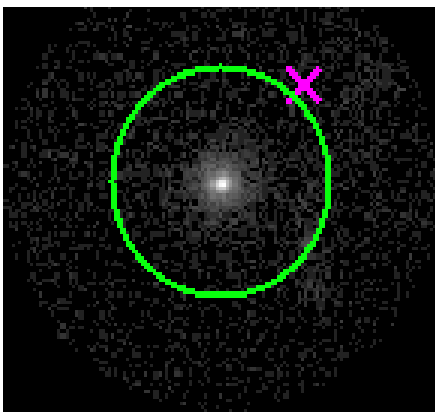




3.2 MEG Arm



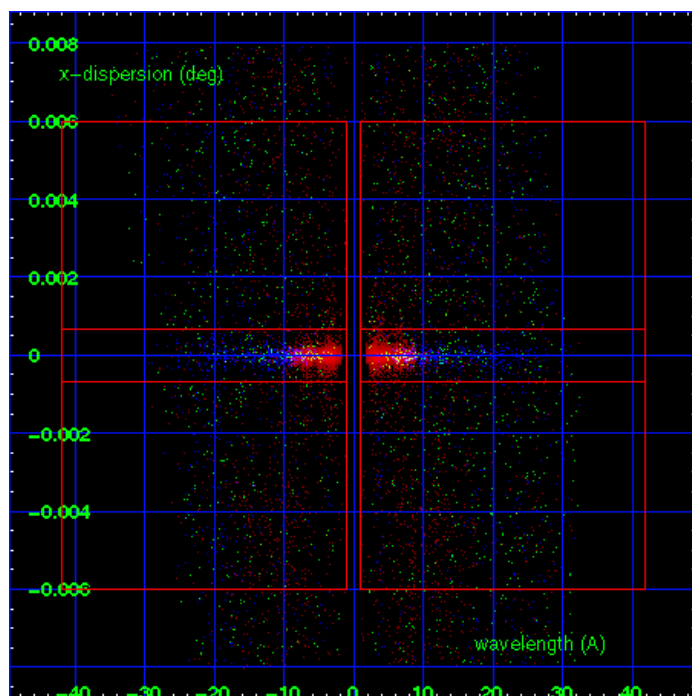
MEG Order Sort 123



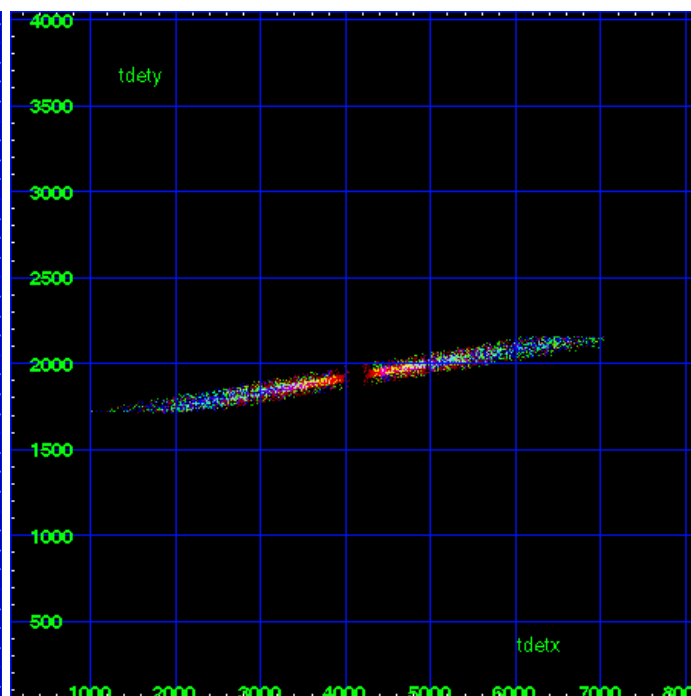
MEG Zero Order



MEG Order Sort ALL

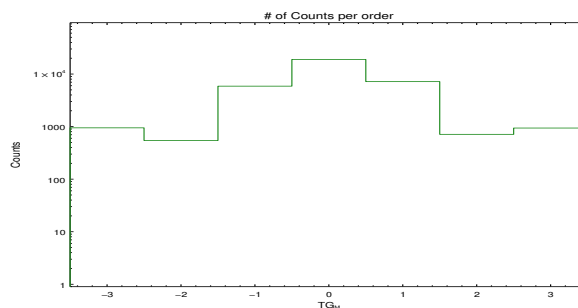


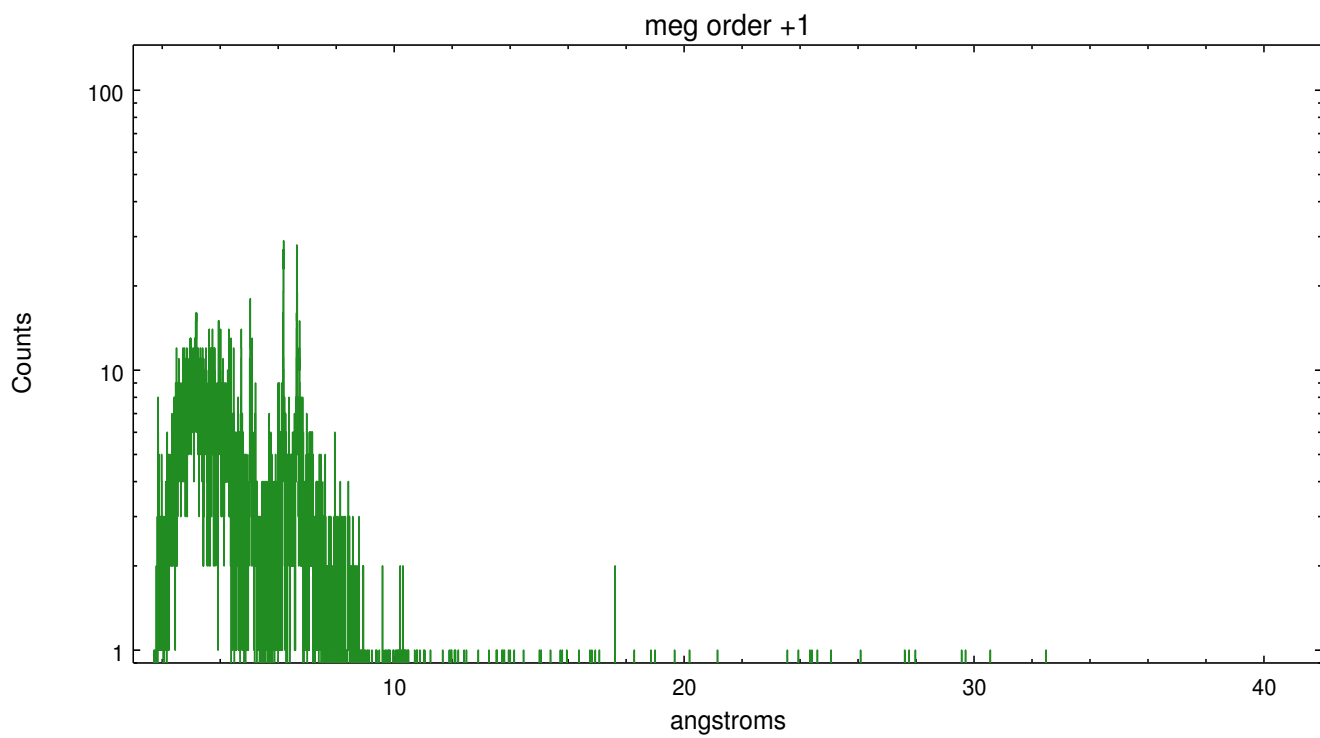
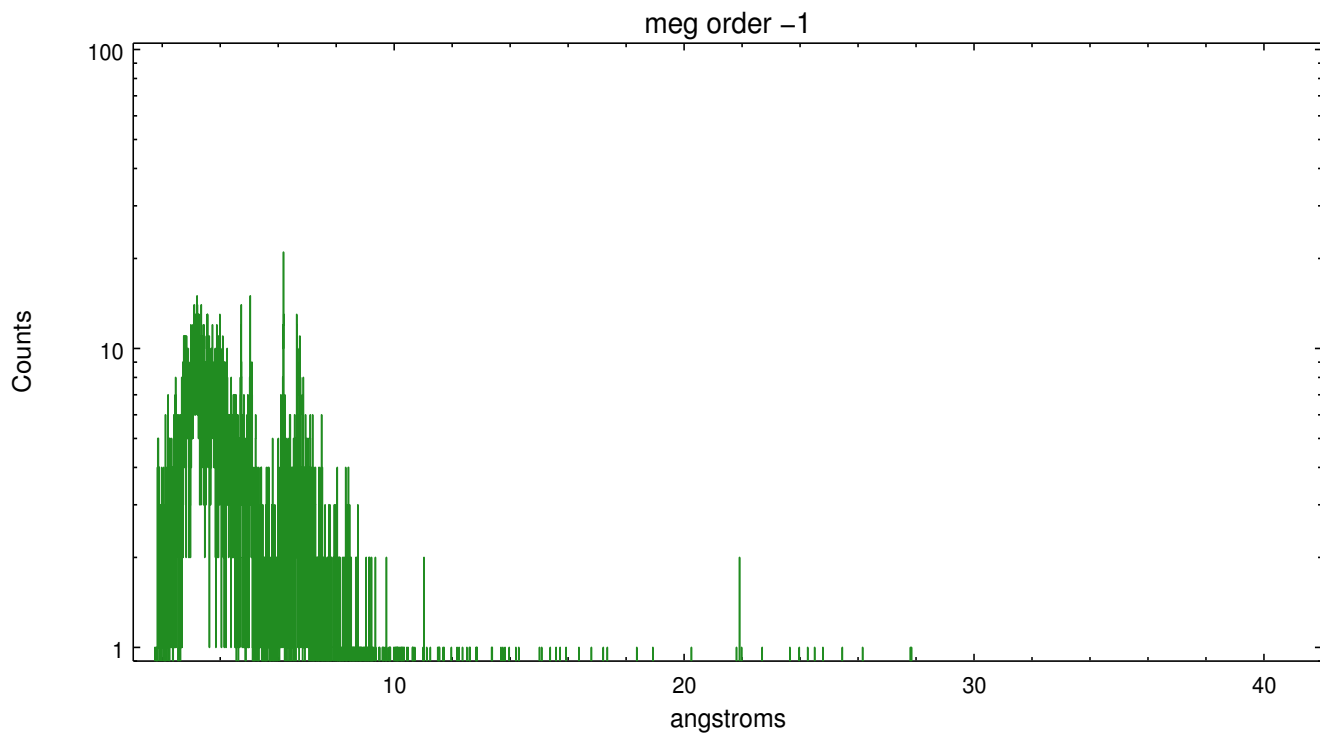
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	948	544	5880	18977	7180	712	939





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.07.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.0255

A.2 Comments

Optical monitoring of target during observation is available in slot 7.