

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7319 - L2 Version 2
Chandra X-Ray Center

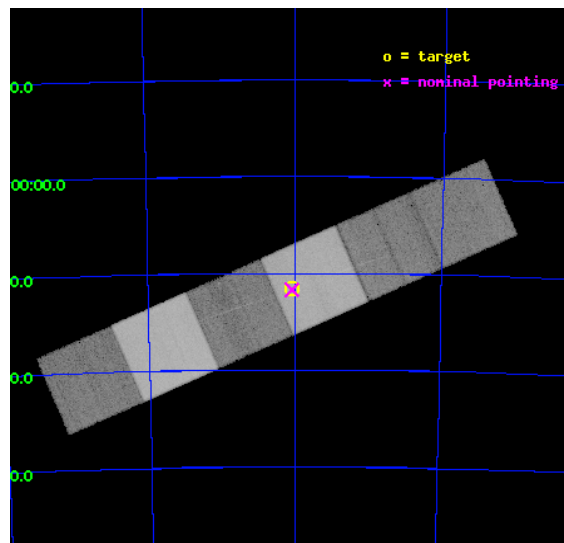
L2 Processing Date : Mar 30 2012

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1 Front

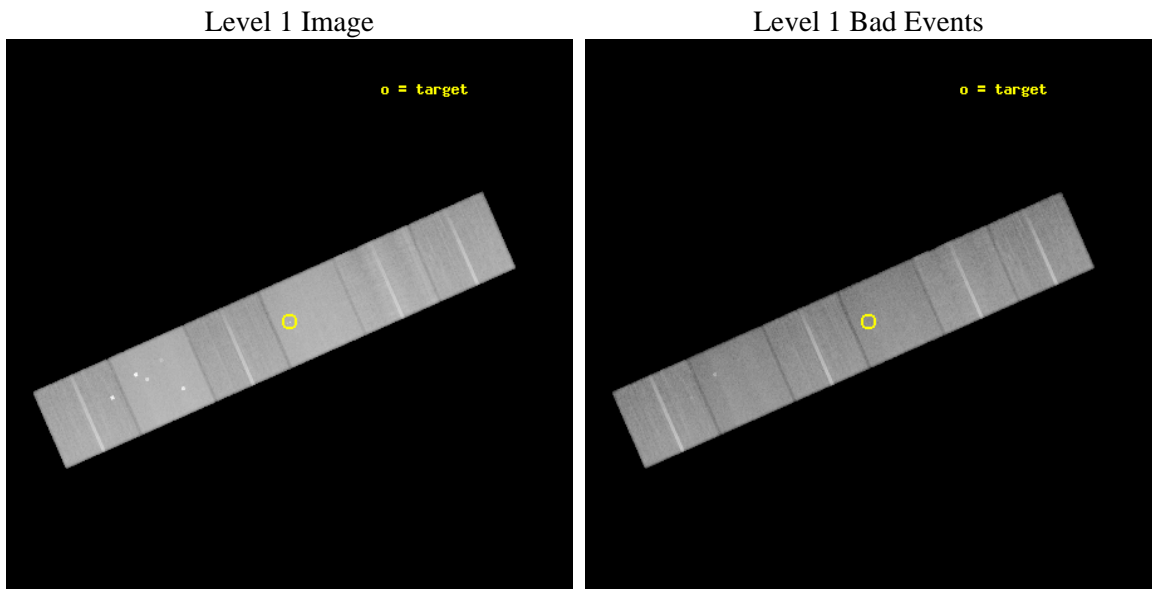
seq_num	200418	Sequence number
obs_id	7319	Observation id
title	Young Stellar Objects in the epsilon Chamaeleontis Group: Probing Proto-planetary Disk Systems in the HD 102437 Field.	Proposal title
observer	Prof Claude Canizares	Principal investigator
object	HD104237A (DX Cha)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.02125	Observer's specified target RA [deg]
dec_targ	-78.192944	Observer's specified target Dec [deg]
ra_nom	180.02360726741	Nominal RA [deg]
dec_nom	-78.19498458378	Nominal Dec [deg]
roll_nom	336.15892970247	Nominal Roll [deg]
revision	2	Processing version of data
ontime	43948.799836278	Sum of GTIs [s]
livetime	43392.293669961	Livetime [s]
ontime4	43948.799836278	Sum of GTIs [s]
ontime5	43948.799836278	Sum of GTIs [s]
ontime6	43948.799836278	Sum of GTIs [s]
ontime7	43948.799836278	Sum of GTIs [s]
ontime8	43948.799836278	Sum of GTIs [s]
ontime9	43948.763839155	Sum of GTIs [s]
l2events	621283	Number of level 2 events



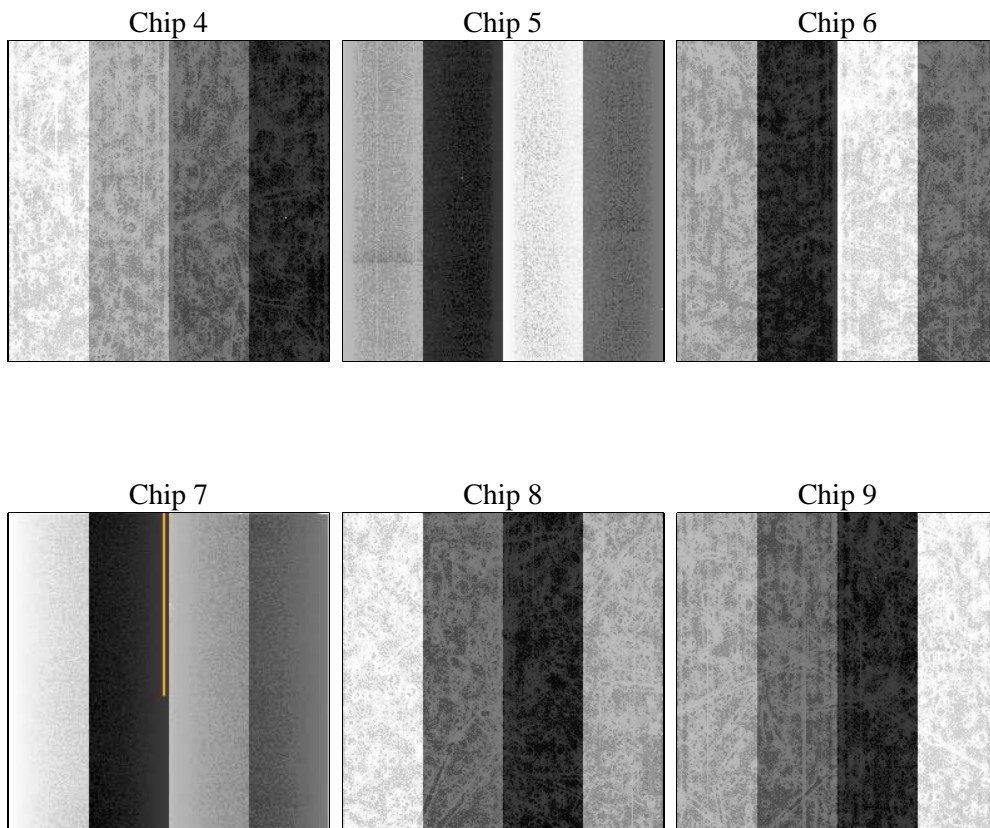
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	43948.799836278	Sum of GTIs [s]
caldbver	4.4.8	 	ontime4	43948.799836278	Sum of GTIs [s]
date	2012-03-30T06:44:31	Date and time of file creation	ontime5	43948.799836278	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	43948.799836278	Sum of GTIs [s]
			ontime7	43948.799836278	Sum of GTIs [s]
			ontime8	43948.799836278	Sum of GTIs [s]
			ontime9	43948.763839155	Sum of GTIs [s]
			l1events	2819149	Number of level 1 events

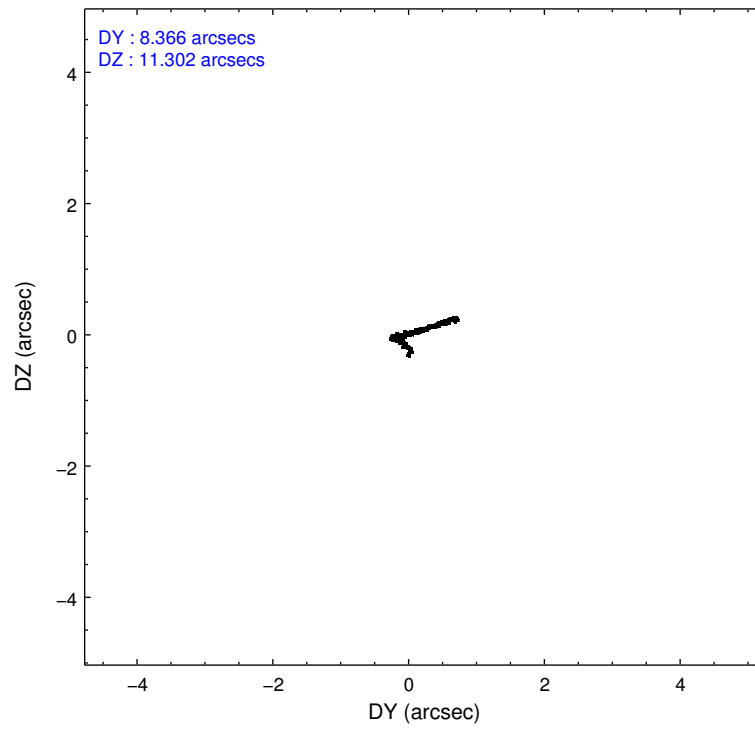
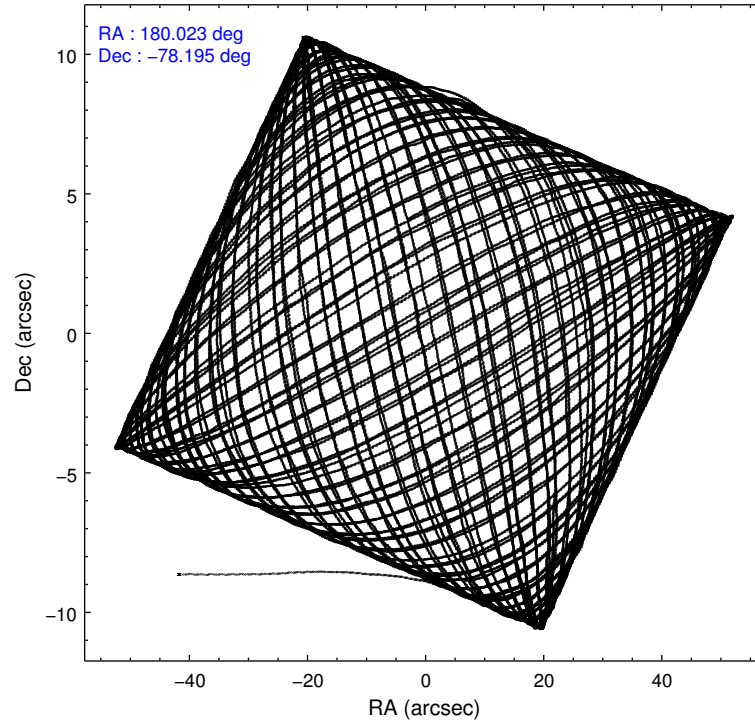
2.1.4 Events

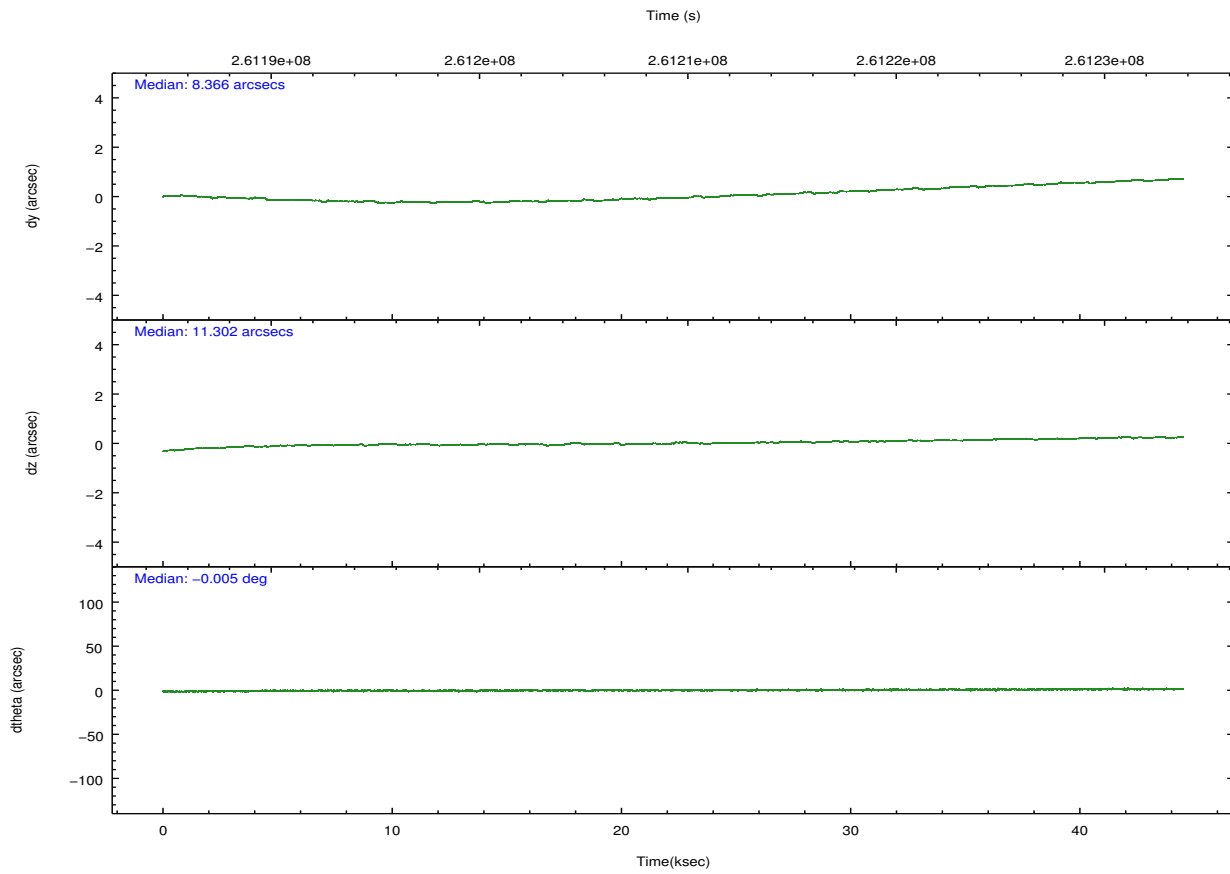
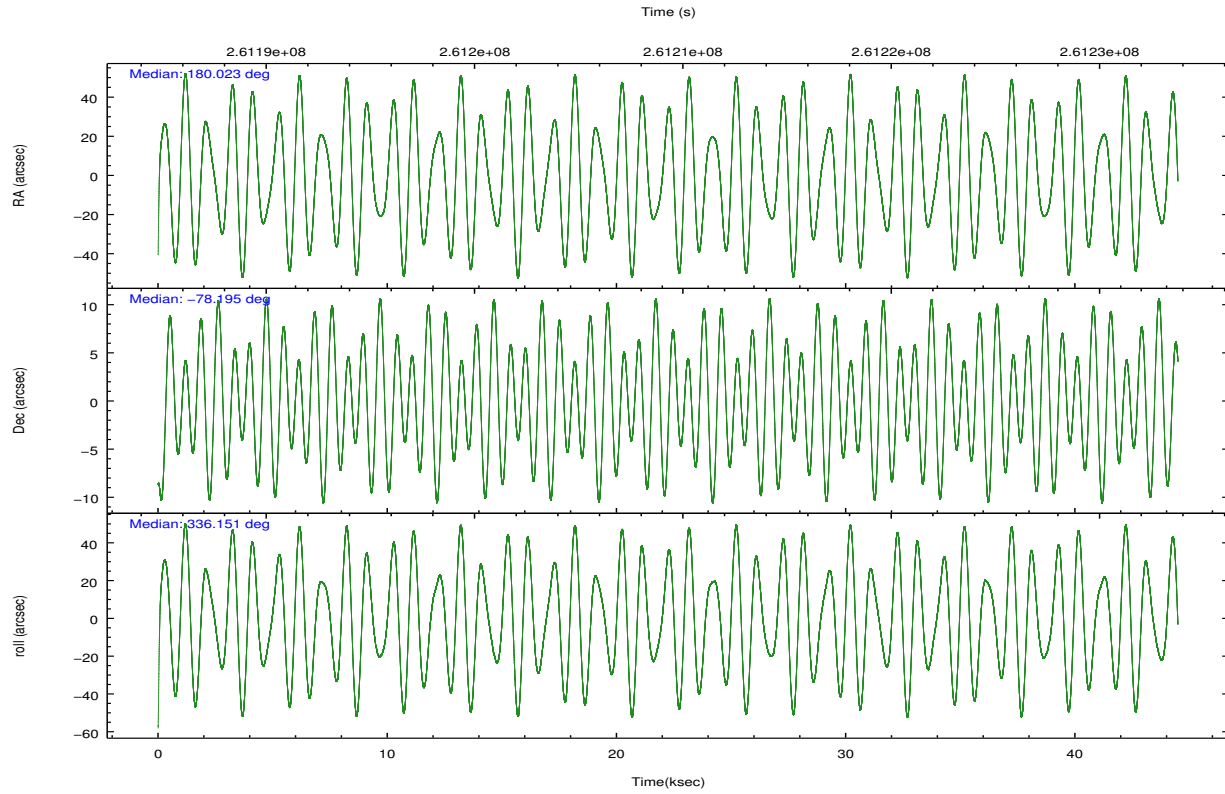
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	436693	590641	386690	520931	492025	392169	grade 0 events	29612	29401	17347	18340	32473	18998
rejected events	380235	315639	341597	304856	386730	345069		6%	4%	4%	3%	6%	4%
rejected %	87%	53%	88%	58%	78%	87%	grade 1 events	468	1639	217	515	335	226
								0%	0%	0%	0%	0%	0%
							grade 2 events	9807	85493	9744	43223	23979	9427
								2%	14%	2%	8%	4%	2%
							grade 3 events	4901	9996	4469	18659	10821	4701
								1%	1%	1%	3%	2%	1%
							grade 4 events	4694	9640	4338	18582	10009	4631
								1%	1%	1%	3%	2%	1%
							grade 5 events	17197	42363	17993	49764	23932	19243
								3%	7%	4%	9%	4%	4%
							grade 6 events	7456	140515	9199	117297	28023	9352
								1%	23%	2%	22%	5%	2%
							grade 7 events	362558	271594	323383	254551	362453	325591
								83%	45%	83%	48%	73%	83%

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	179.891363	180.023607267409	Subarray requested	NONE	NONE
[deg] Pointing Dec	-78.198264	-78.1949845837803	Alternating exposures requested	N	N
[deg] Pointing Roll	335.872861	336.1589297024658	[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)	261187536.184000	261186368.88378			
Observation start date	2006-04-12T00:04:31	2006-04-11T23:46:08			
[s] Observation end time (MET)	261231536.184000	261232290.93592			
Observation end date	2006-04-12T12:17:51	2006-04-12T12:31:30			
Read mode	TIMED	TIMED			

2.3 Aspect



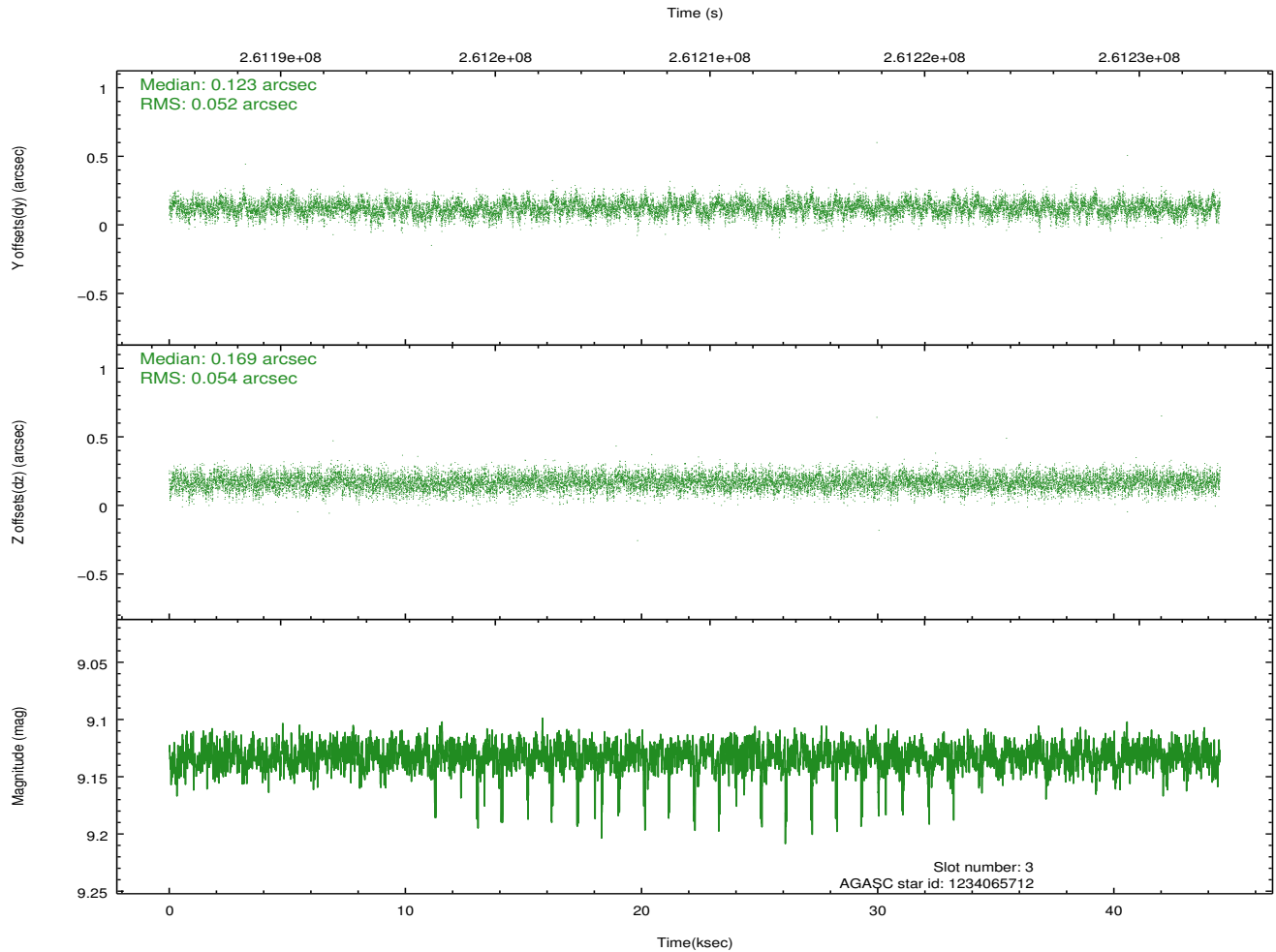
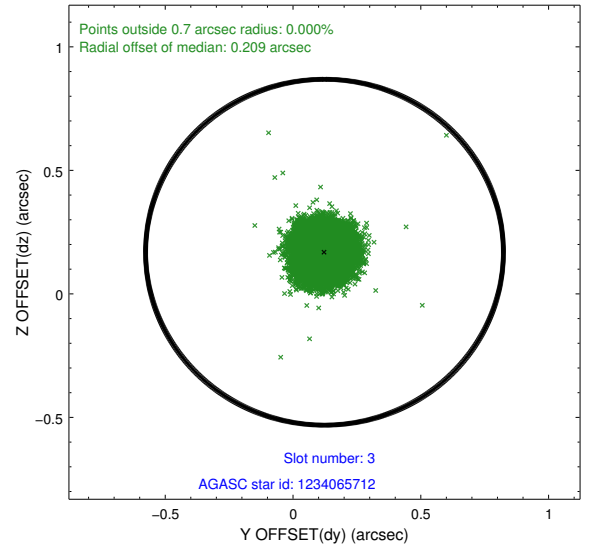
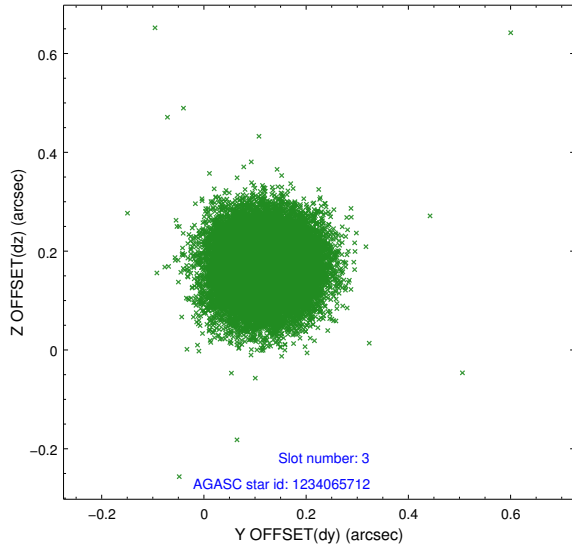


Slot Statistics

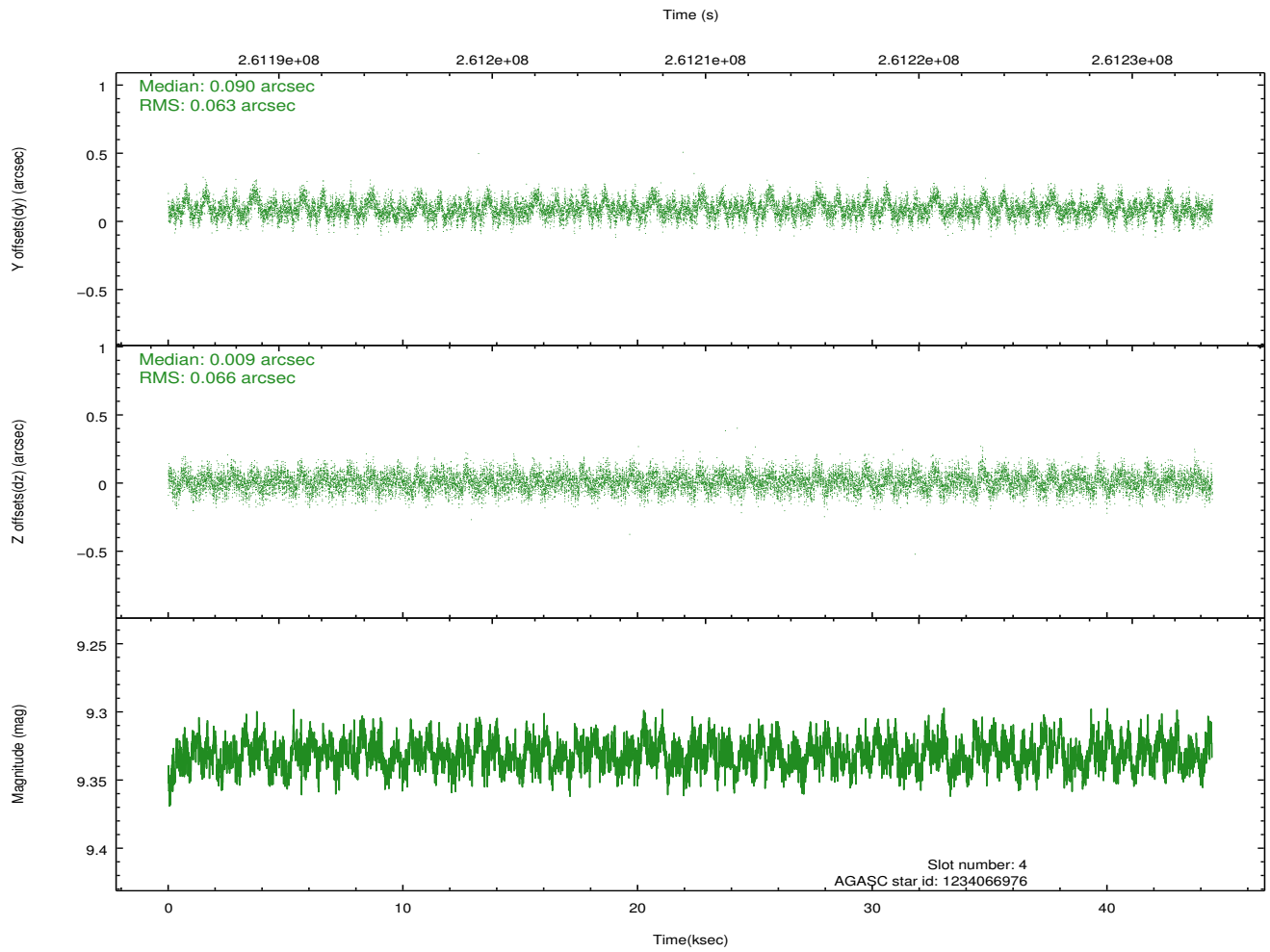
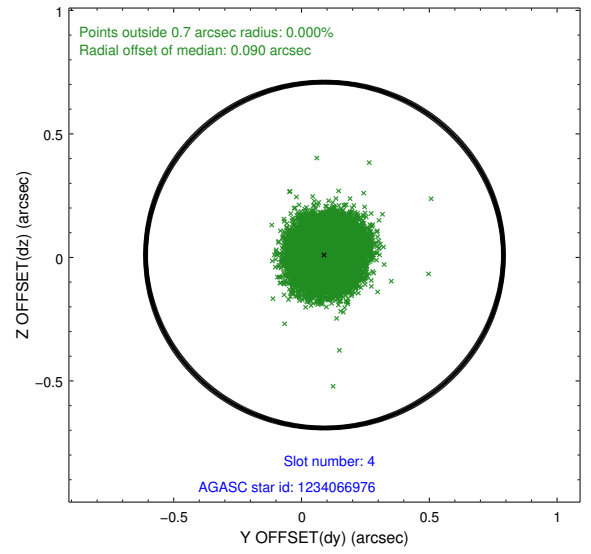
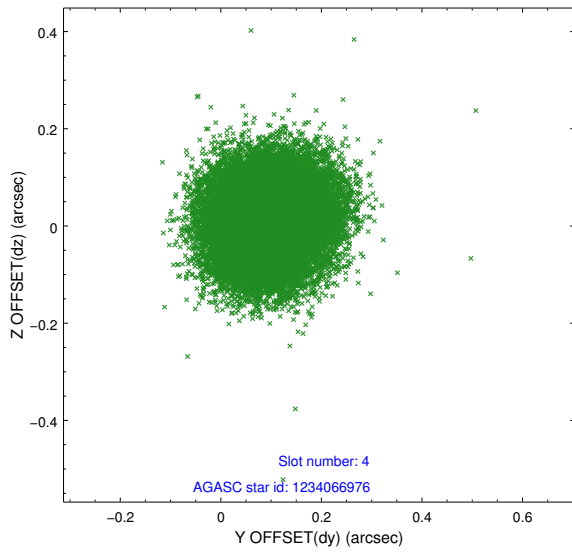
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	10851	-0.032	-0.019	0.010	0.017	0.000000	0.000000	-761.26	-1732.63
1	FID	ACIS-S-4	7.21	10849	0.127	0.021	0.013	0.023	0.000000	0.000000	2152.16	175.92
2	FID	ACIS-S-5	7.23	10851	-0.124	0.007	0.014	0.027	0.000000	0.000000	-1814.22	169.54
3	GUIDE	1234065712	9.13	21680	0.123	0.169	0.079	0.127	176.768042	-78.442733	-1669.89	-1778.54
4	GUIDE	1234066976	9.33	21682	0.090	0.009	0.098	0.154	177.744129	-78.286175	-1290.29	-956.73
5	GUIDE	1234181360	7.81	21700	-0.099	0.039	0.083	0.134	181.773022	-78.741114	2014.59	-1262.38
6	GUIDE	1234188184	9.07	21685	-0.078	-0.293	0.102	0.156	182.228918	-77.688140	901.22	2376.27
7	GUIDE	1234704160	7.22	21701	-0.046	0.076	0.089	0.137	182.282049	-78.781313	2400.08	-1262.31

2.4 Star Slots

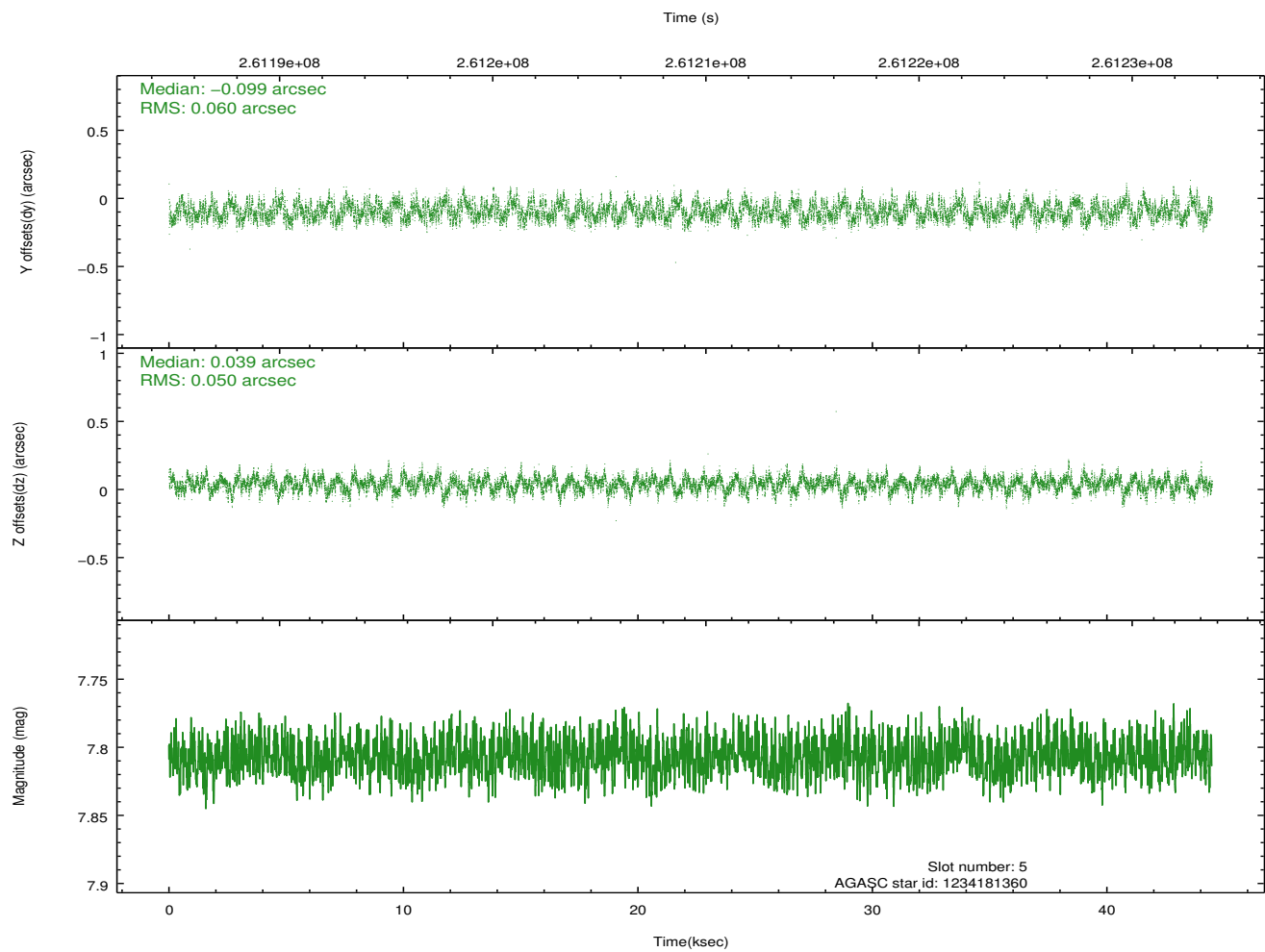
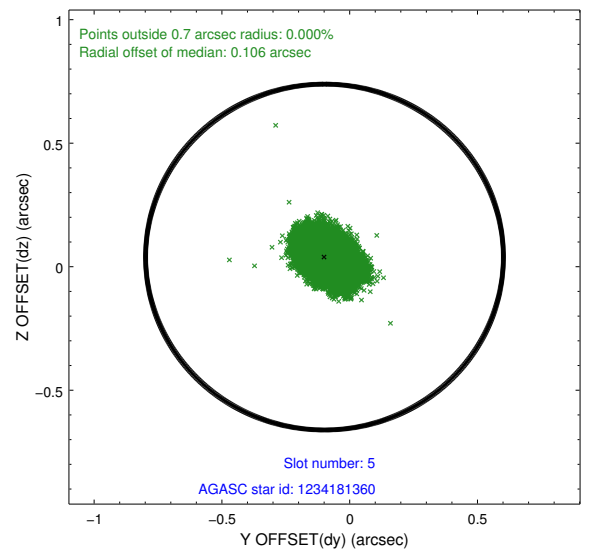
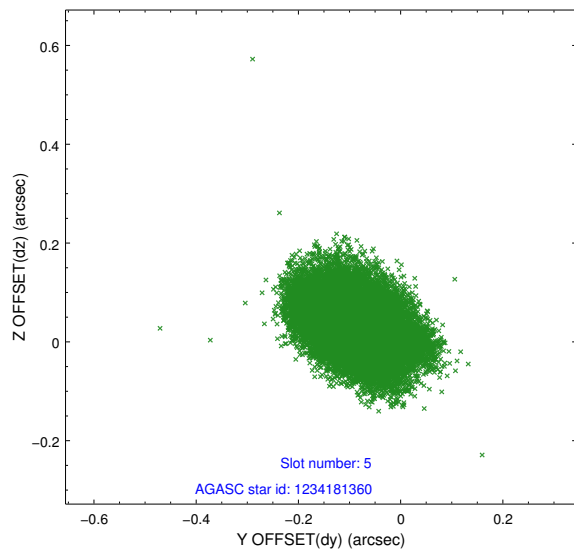
2.4.1 Slot 3



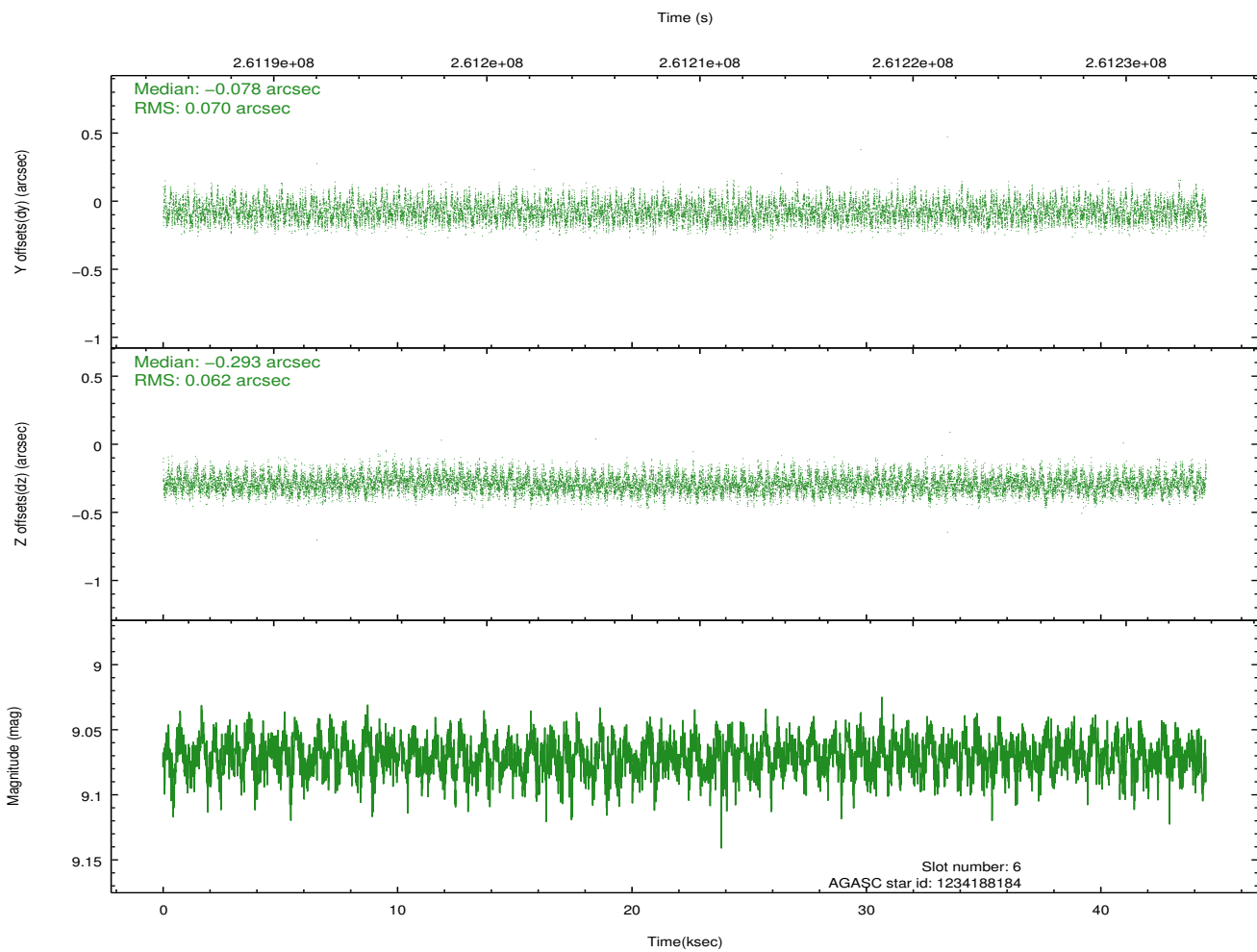
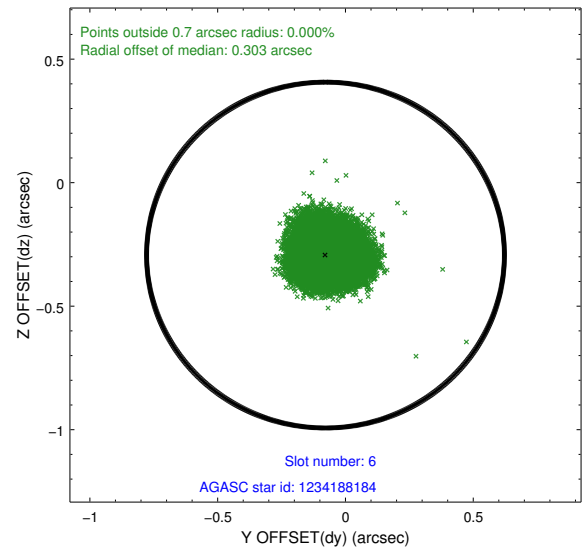
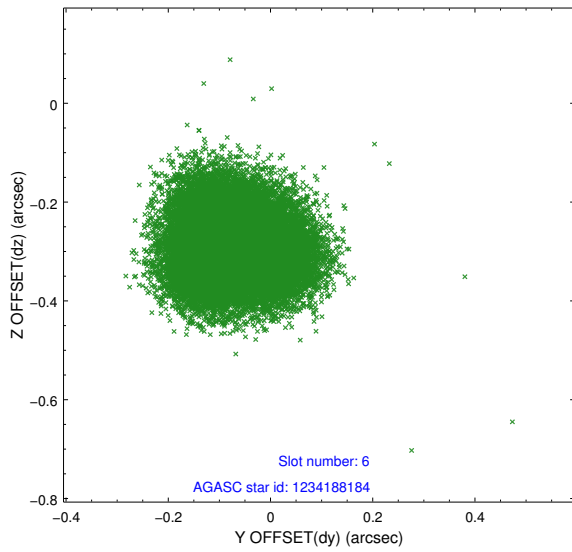
2.4.2 Slot 4



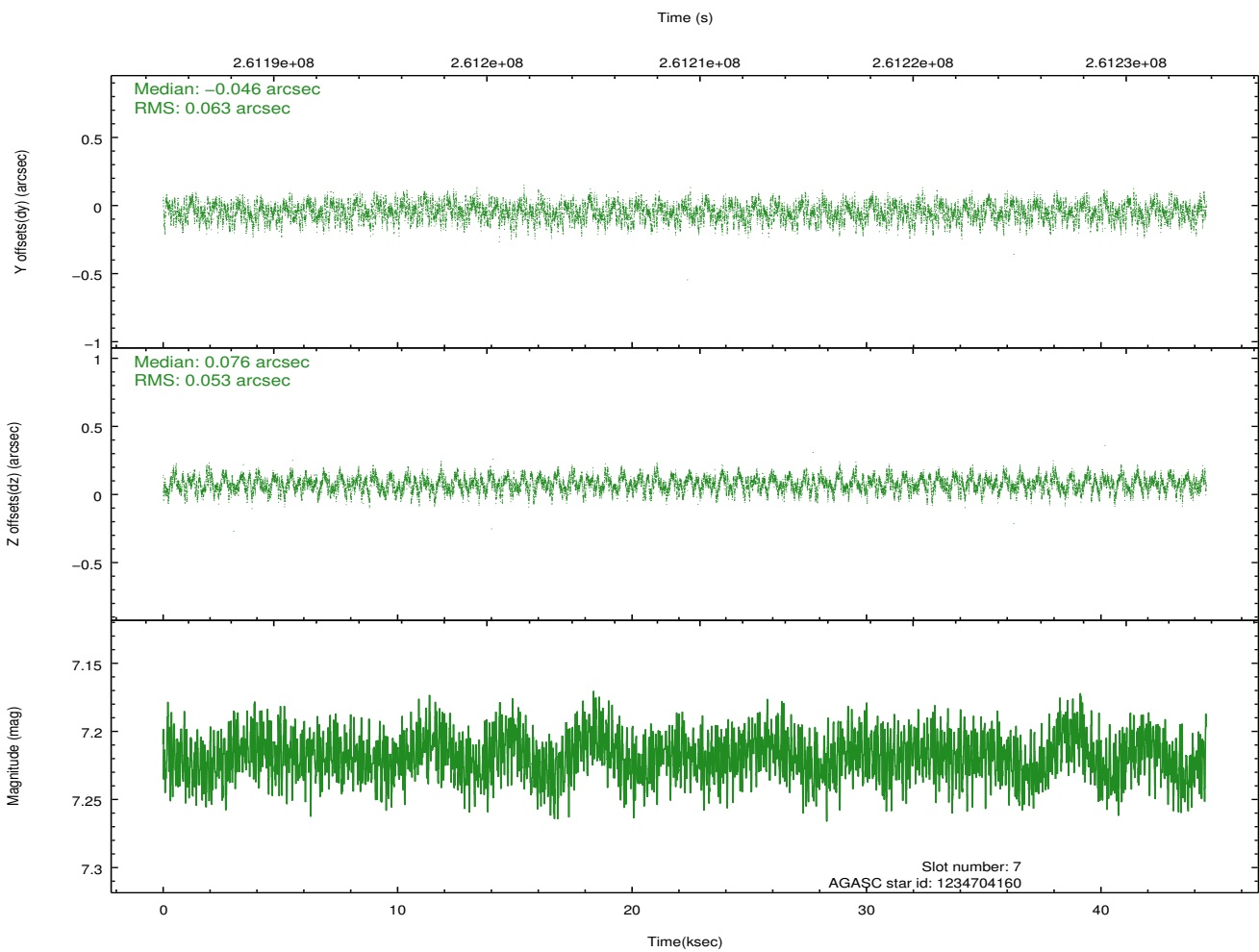
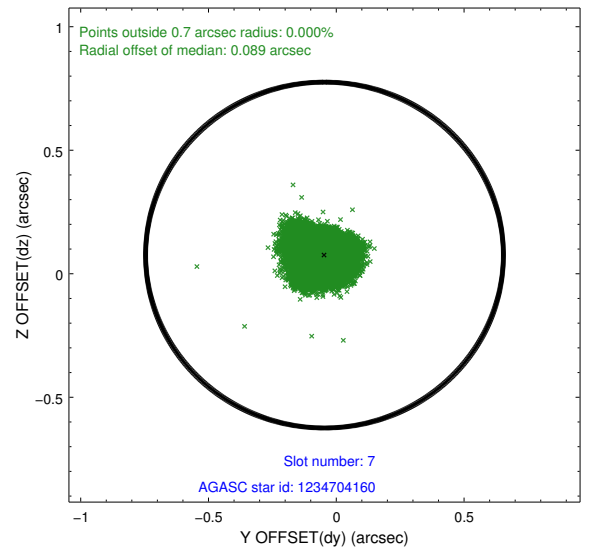
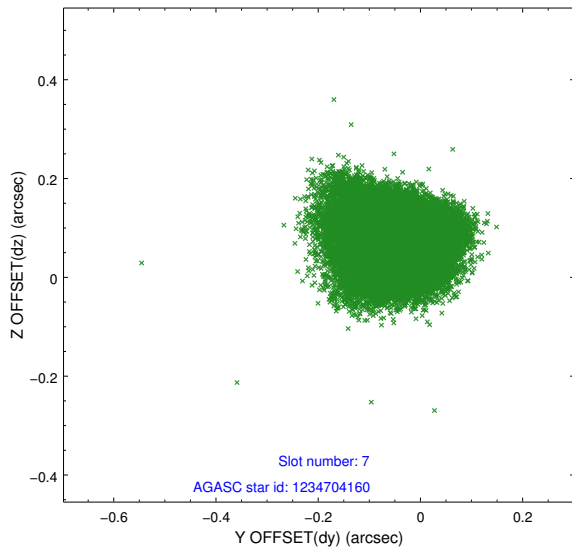
2.4.3 Slot 5



2.4.4 Slot 6

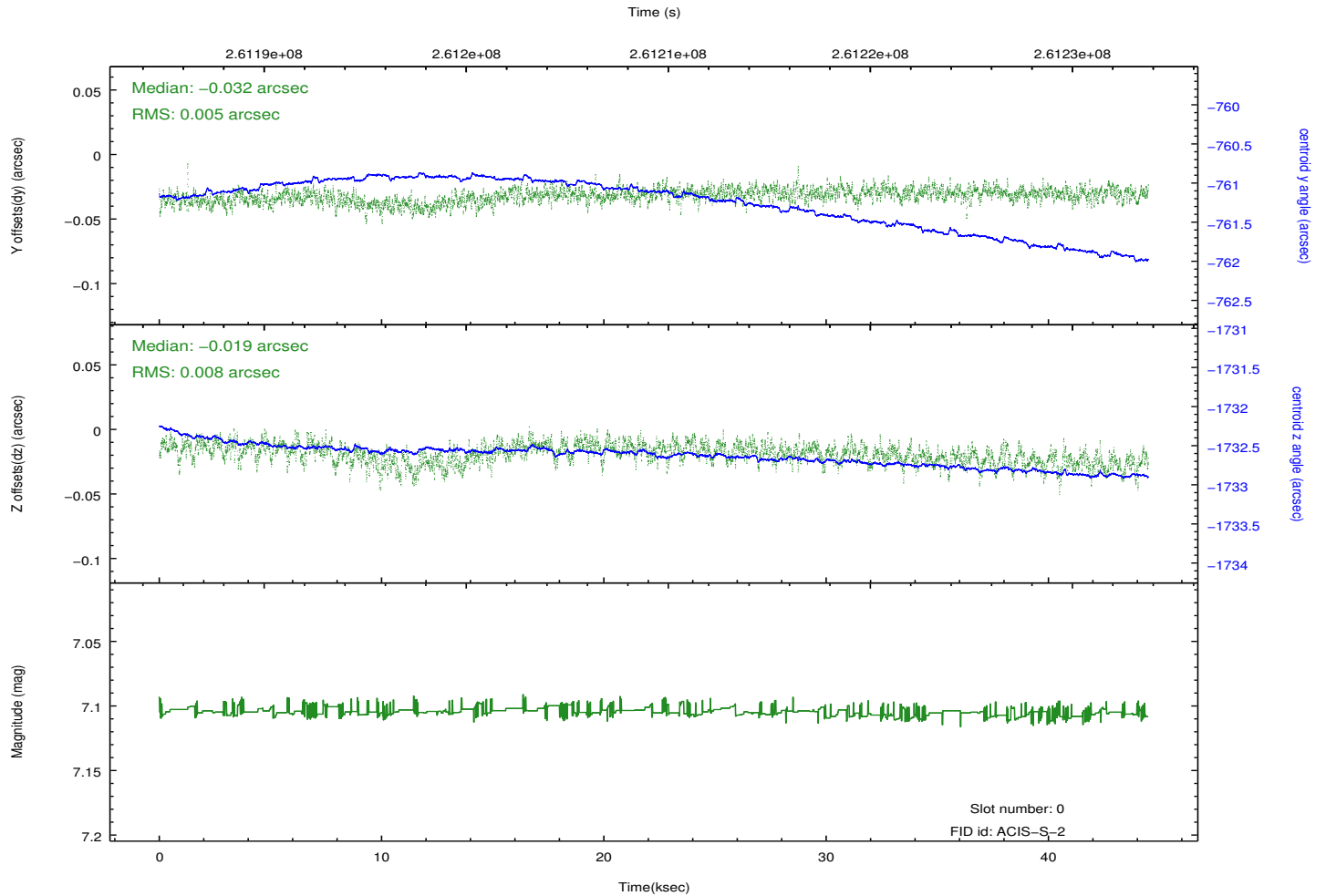
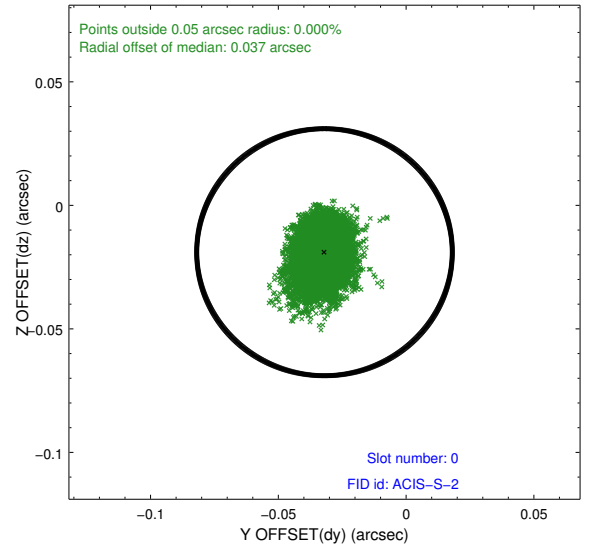
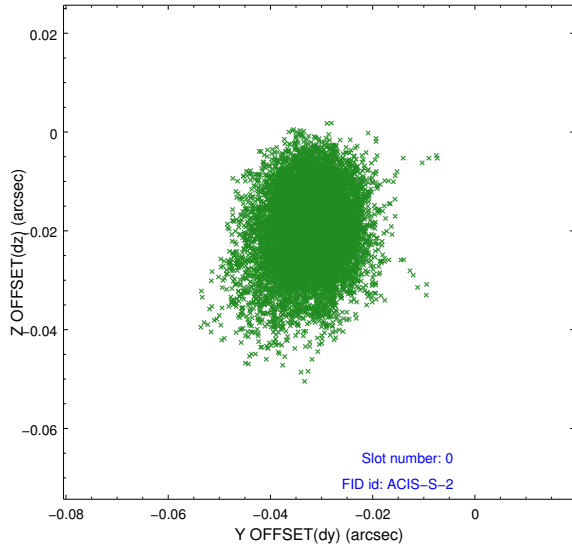


2.4.5 Slot 7

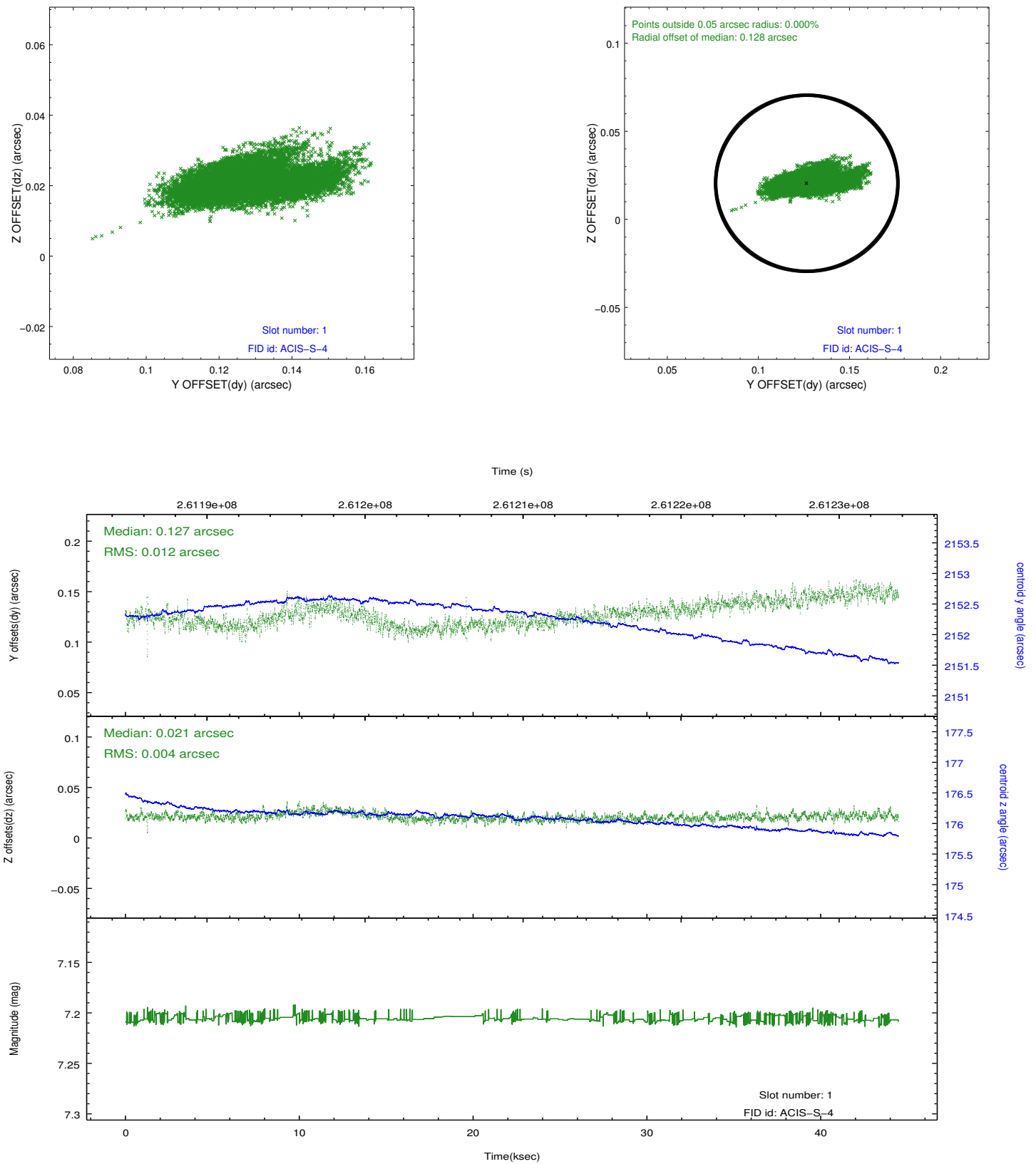


2.5 FID Slots

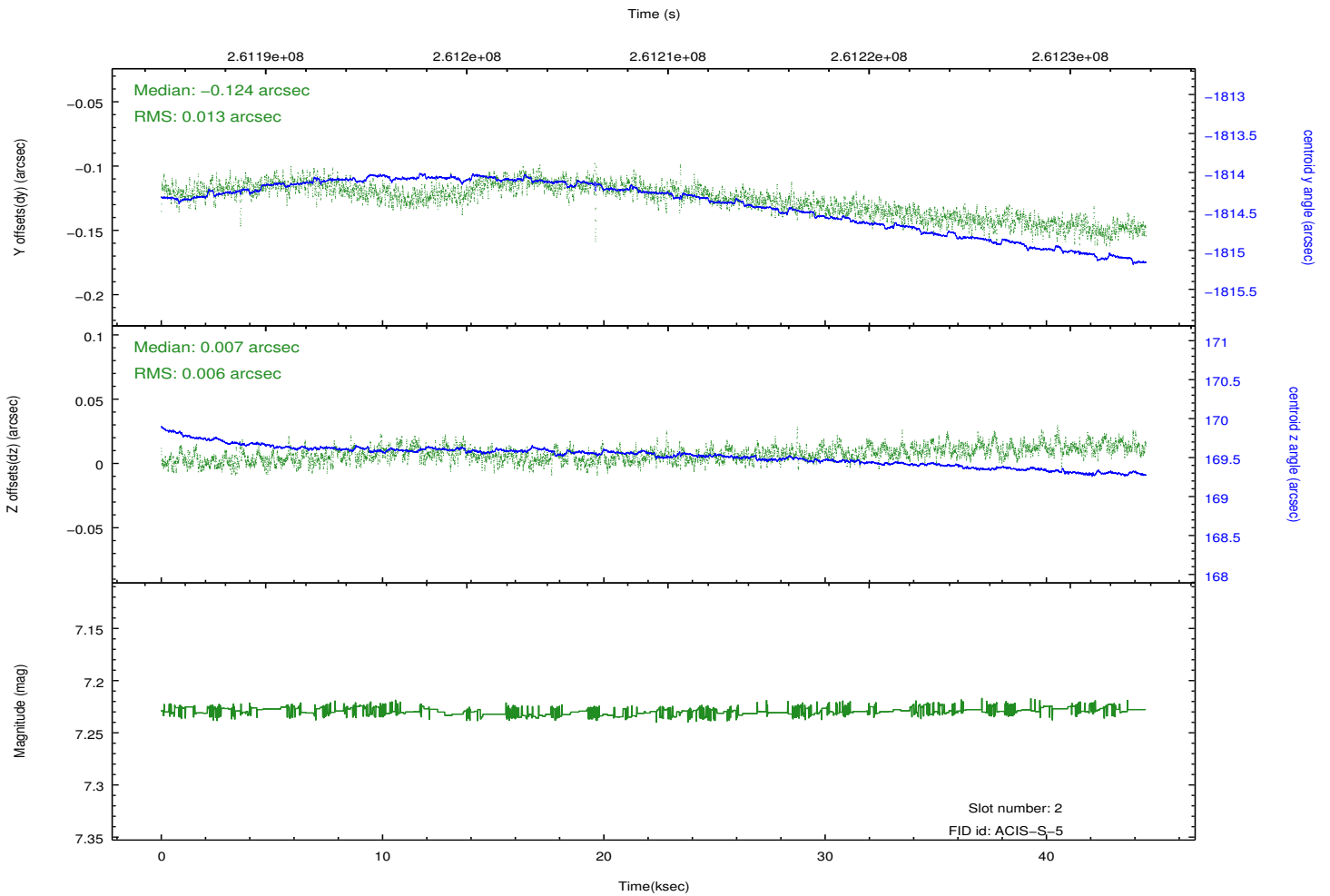
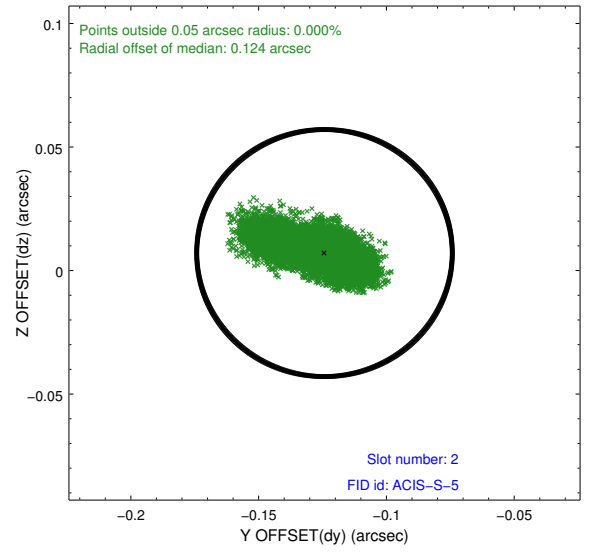
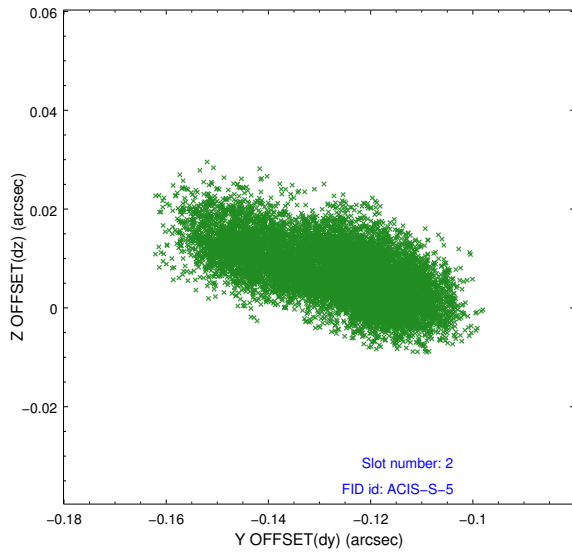
2.5.1 Slot 0



2.5.2 Slot 1

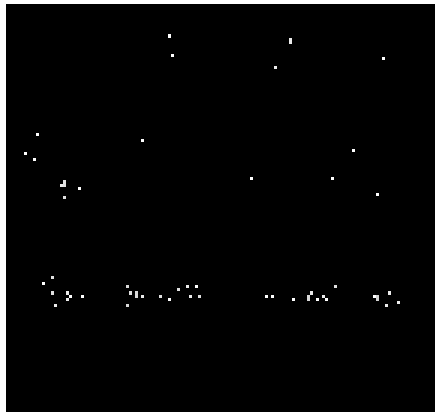


2.5.3 Slot 2

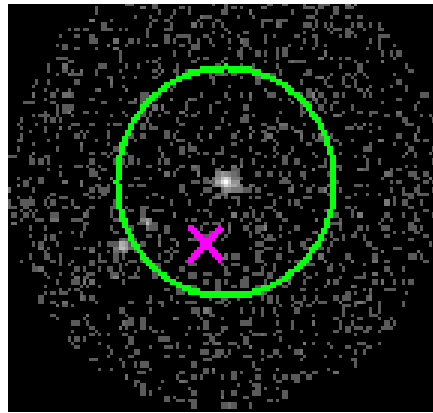


3 Gratings

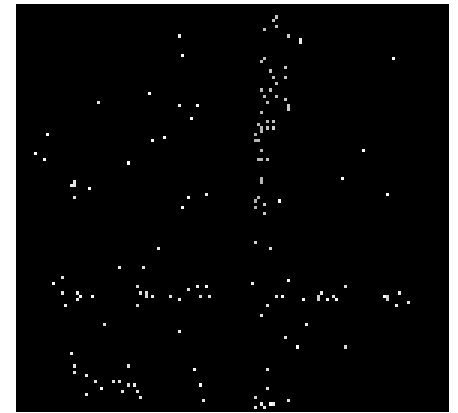
3.1 HEG Arm



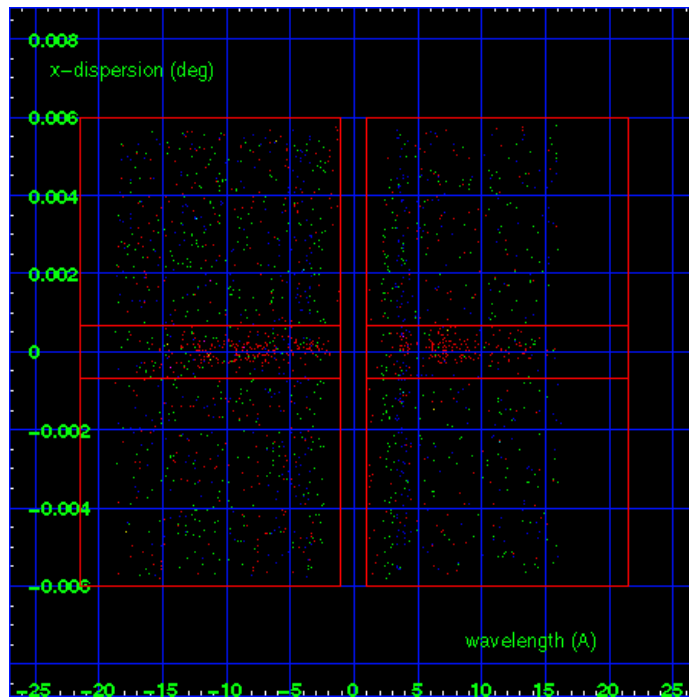
HEG Order Sort 123



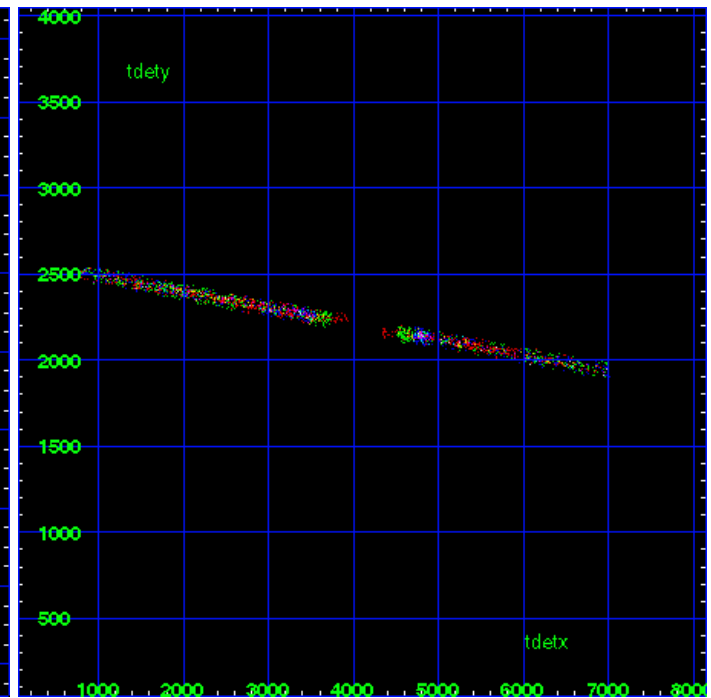
HEG Zero Order



HEG Order Sort ALL

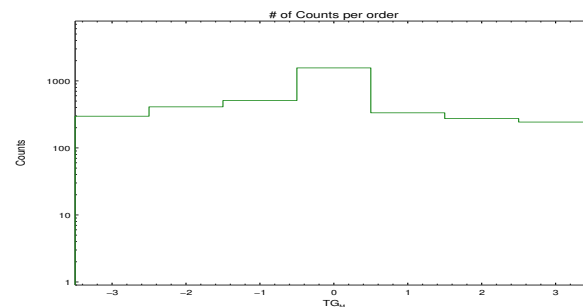


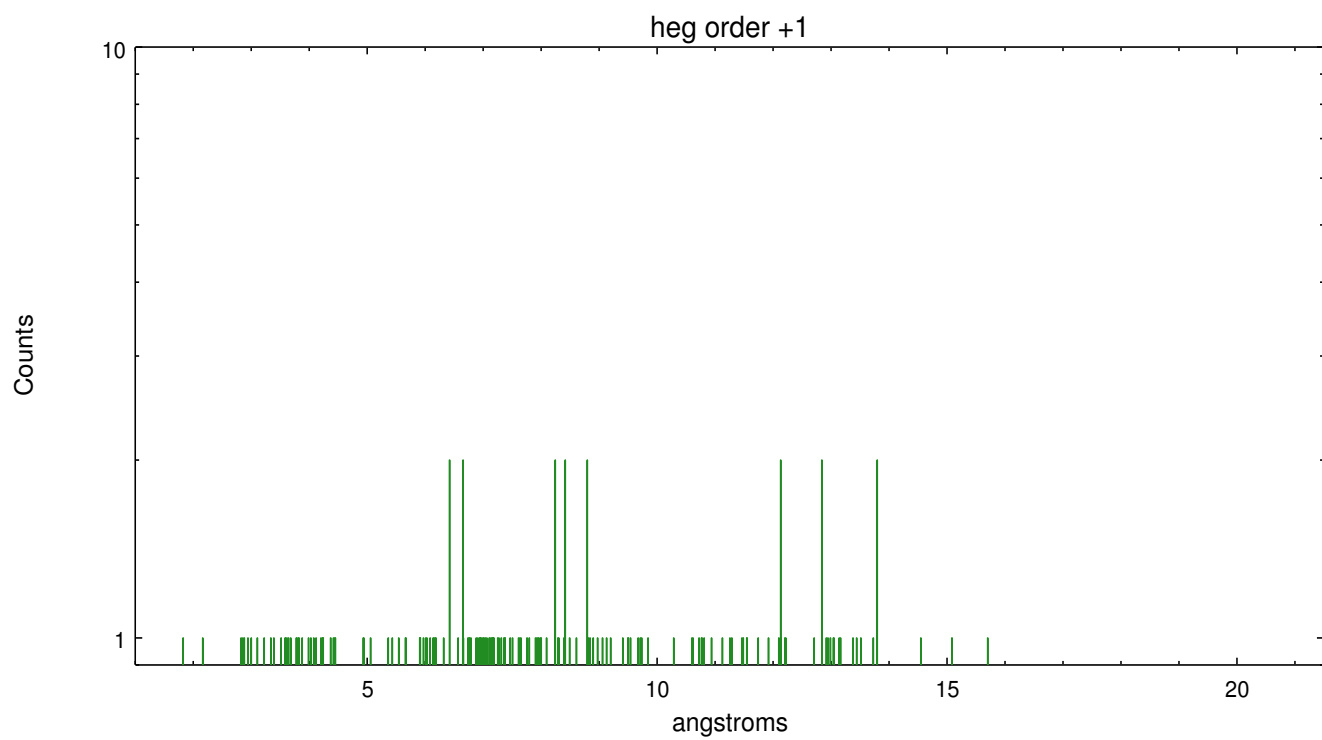
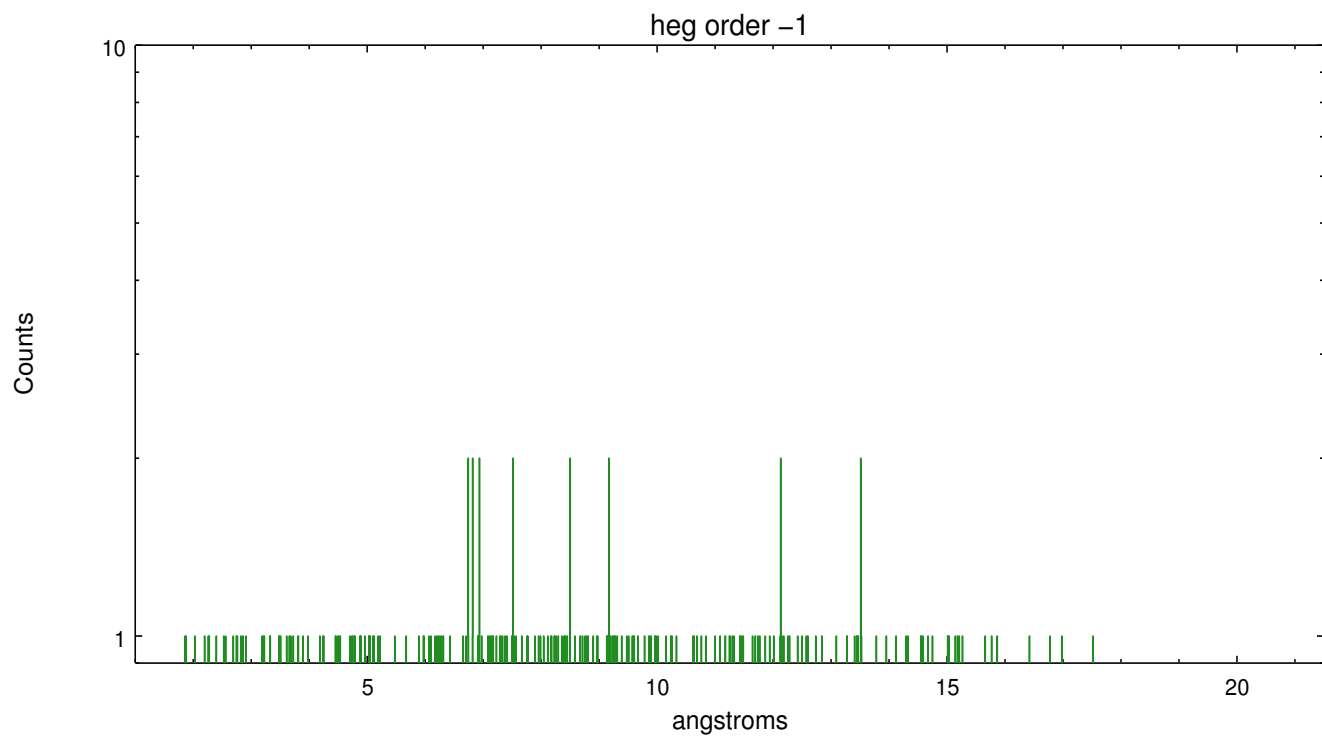
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	297	410	509	1562	334	274	243

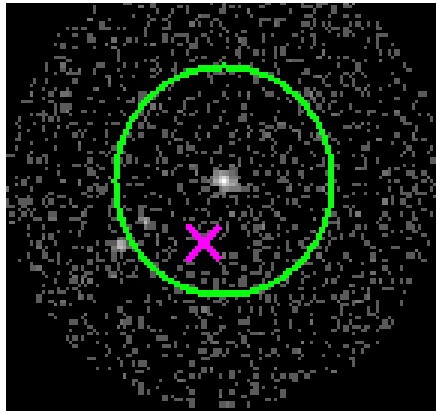




3.2 MEG Arm



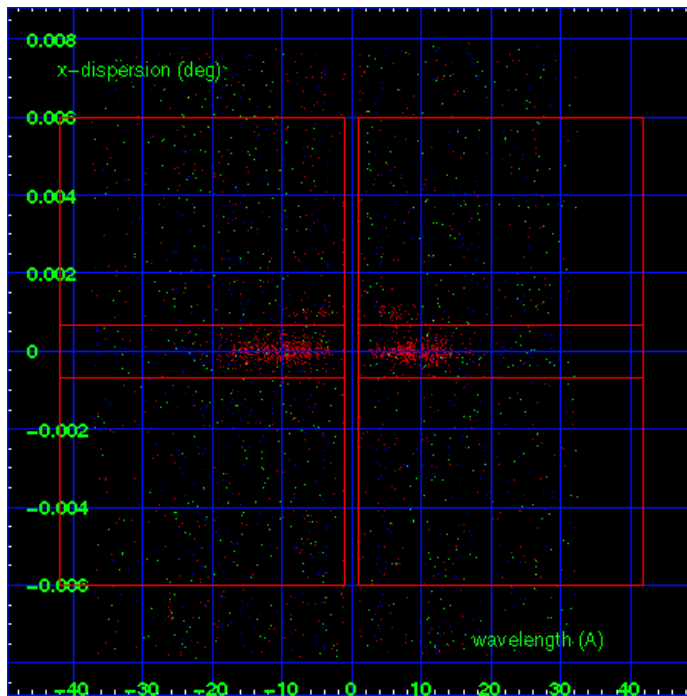
MEG Order Sort 123



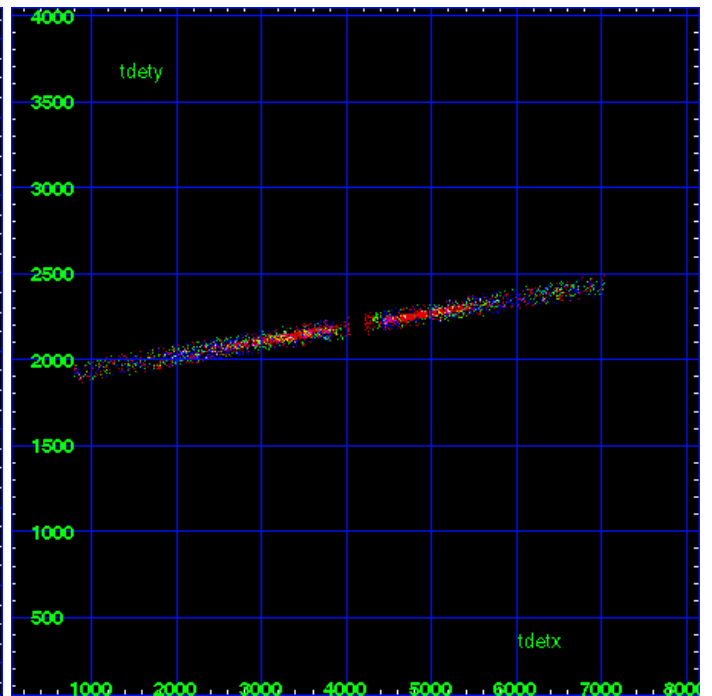
MEG Zero Order



MEG Order Sort ALL

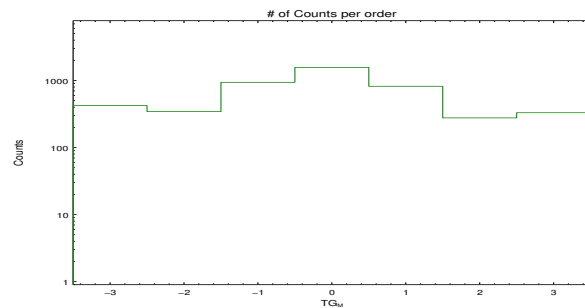


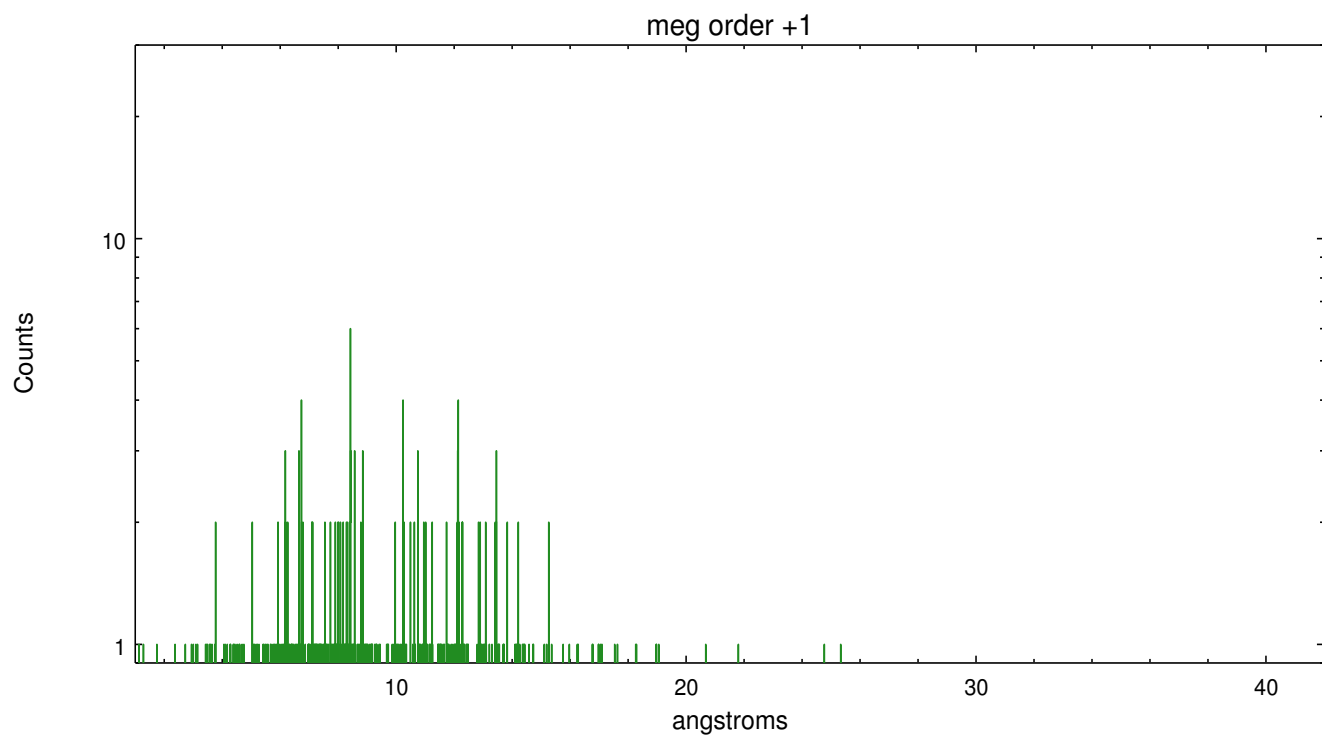
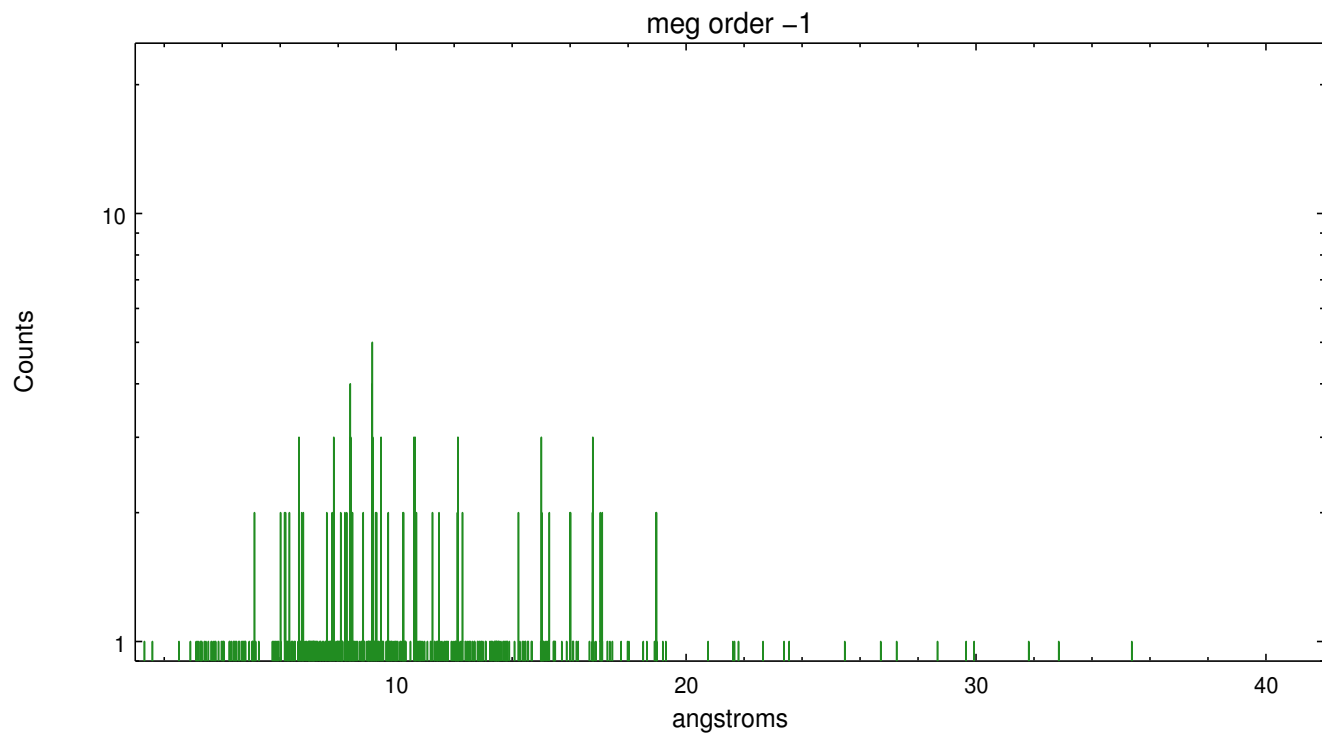
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	423	345	939	1562	820	277	331





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.9487998

A.2 Comments

Sources HD104237A and E are nearly aligned along the dispersion direction of HETG.