

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12034 - L2 Version 2
Chandra X-Ray Center

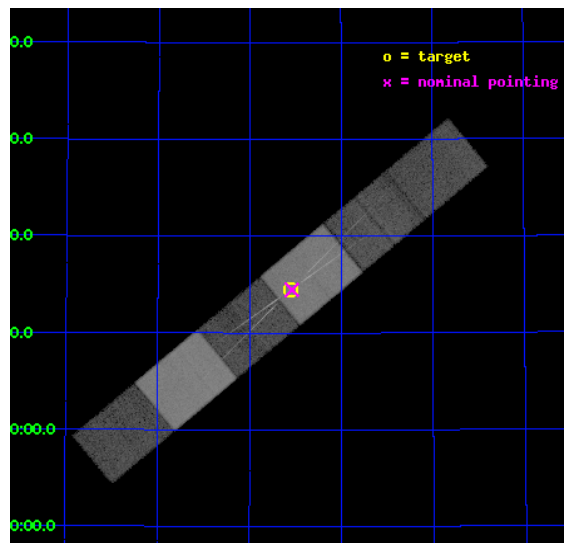
L2 Processing Date : Jun 17 2012

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1 Front

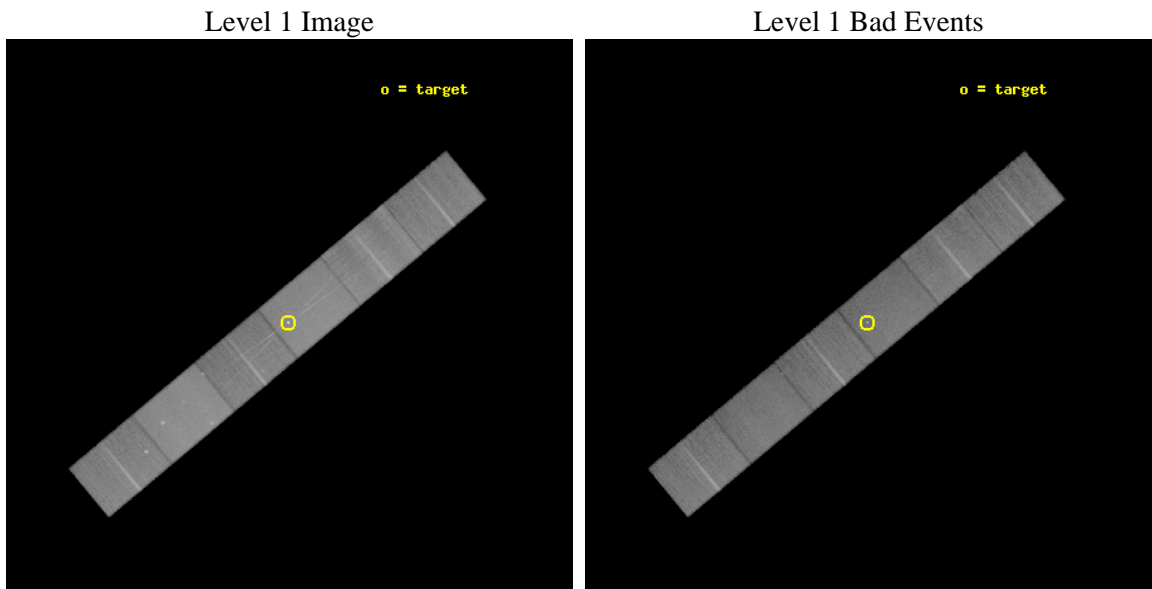
seq_num	300255	Sequence number
obs_id	12034	Observation id
title	The Nature of the Soft Component in the Symbiotic Star CH Cygni	Pr
observer	Dr Koji Mukai	Principal investigator
object	CH Cygni	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	291.137917	Observer's specified target RA [deg]
dec_targ	50.241417	Observer's specified target Dec [deg]
ra_nom	291.13464269534	Nominal RA [deg]
dec_nom	50.241077726881	Nominal Dec [deg]
roll_nom	320.15914800733	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27052.5	Sum of GTIs [s]
livetime	26615.578660706	Livetime [s]
ontime4	27052.5	Sum of GTIs [s]
ontime5	27052.5	Sum of GTIs [s]
ontime6	27049.959009707	Sum of GTIs [s]
ontime7	27052.5	Sum of GTIs [s]
ontime8	27052.5	Sum of GTIs [s]
ontime9	27052.5	Sum of GTIs [s]
l2events	399827	Number of level 2 events



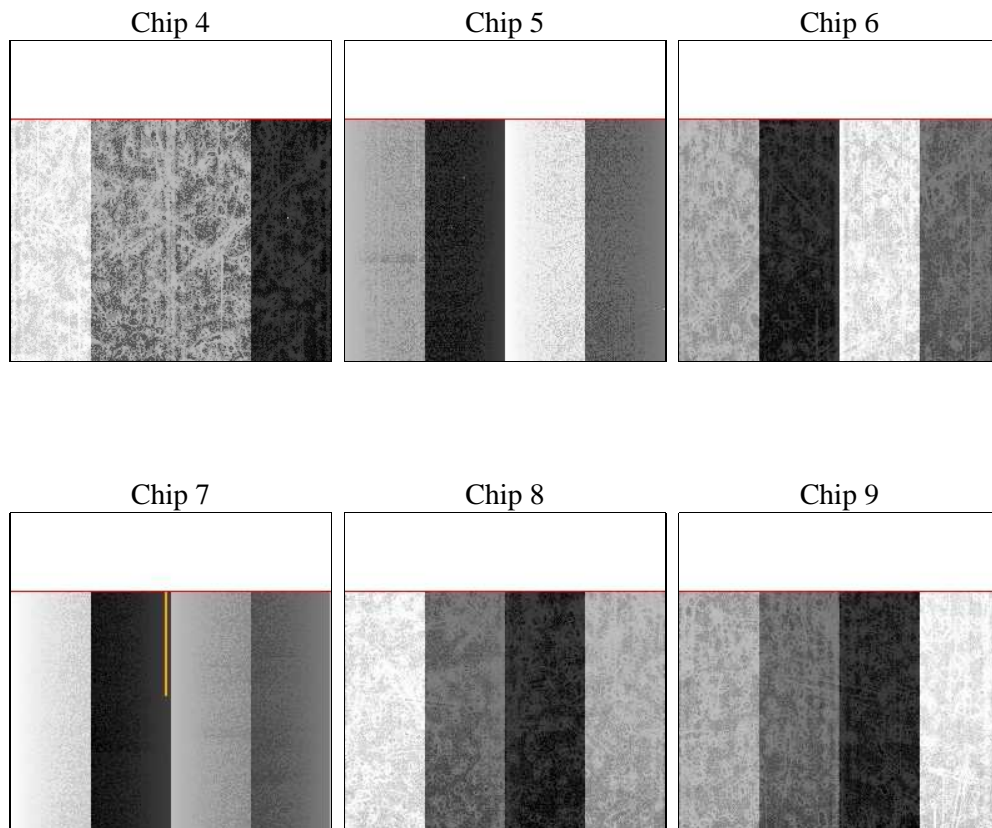
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26957.902000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	27052.5	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	27052.5	Sum of GTIs [s]
date	2012-06-17T07:05:13	Date and time of file creation	ontime5	27052.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	27049.959009707	Sum of GTIs [s]
			ontime7	27052.5	Sum of GTIs [s]
			ontime8	27052.5	Sum of GTIs [s]
			ontime9	27052.5	Sum of GTIs [s]
			l1events	1639057	Number of level 1 events

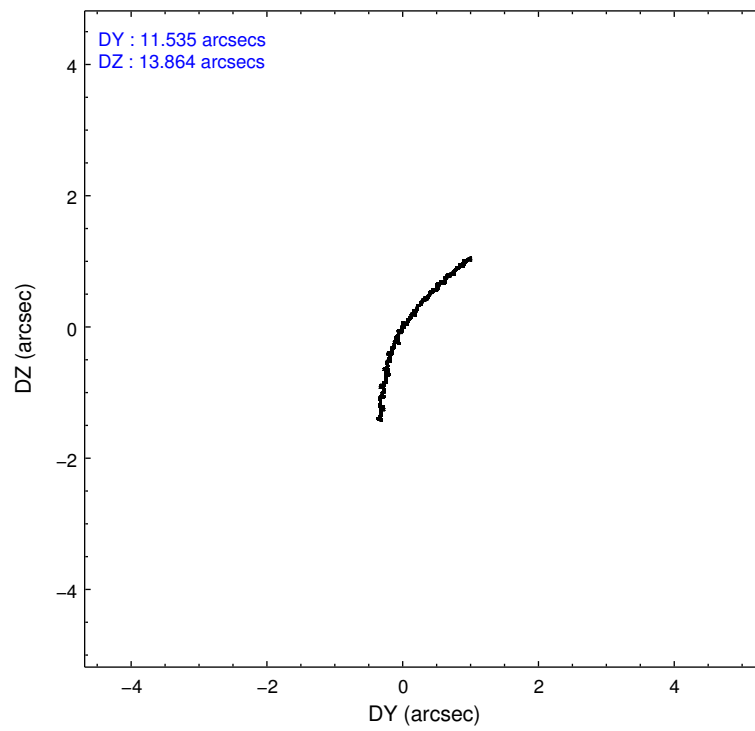
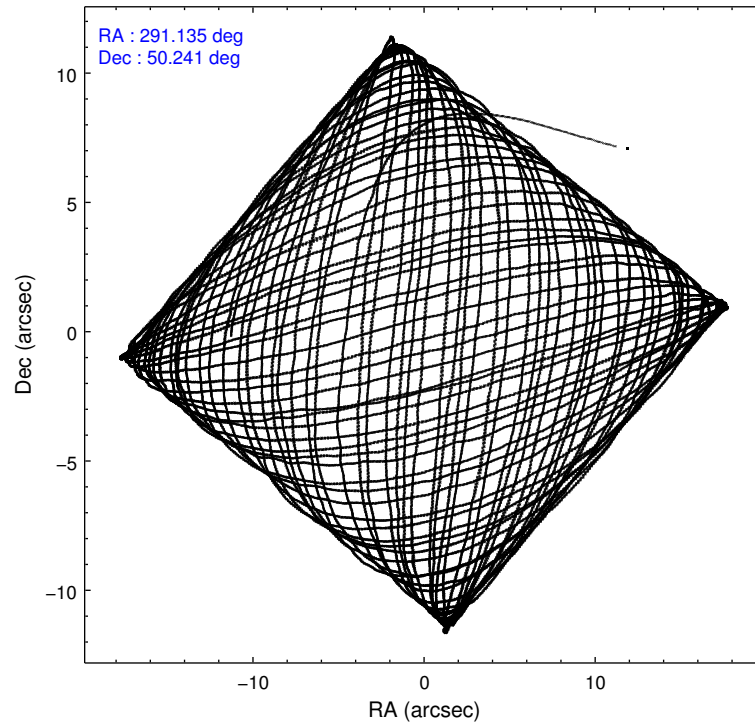
2.1.4 Events

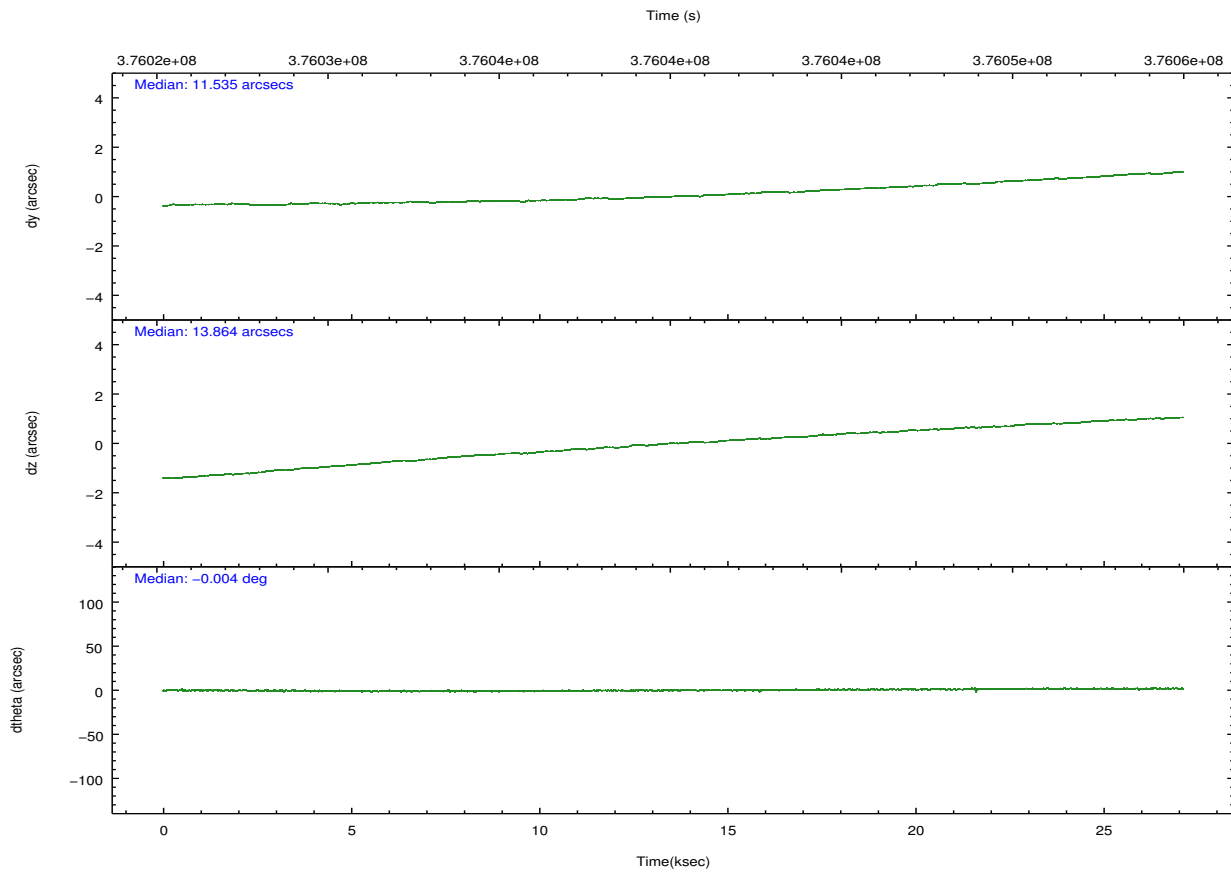
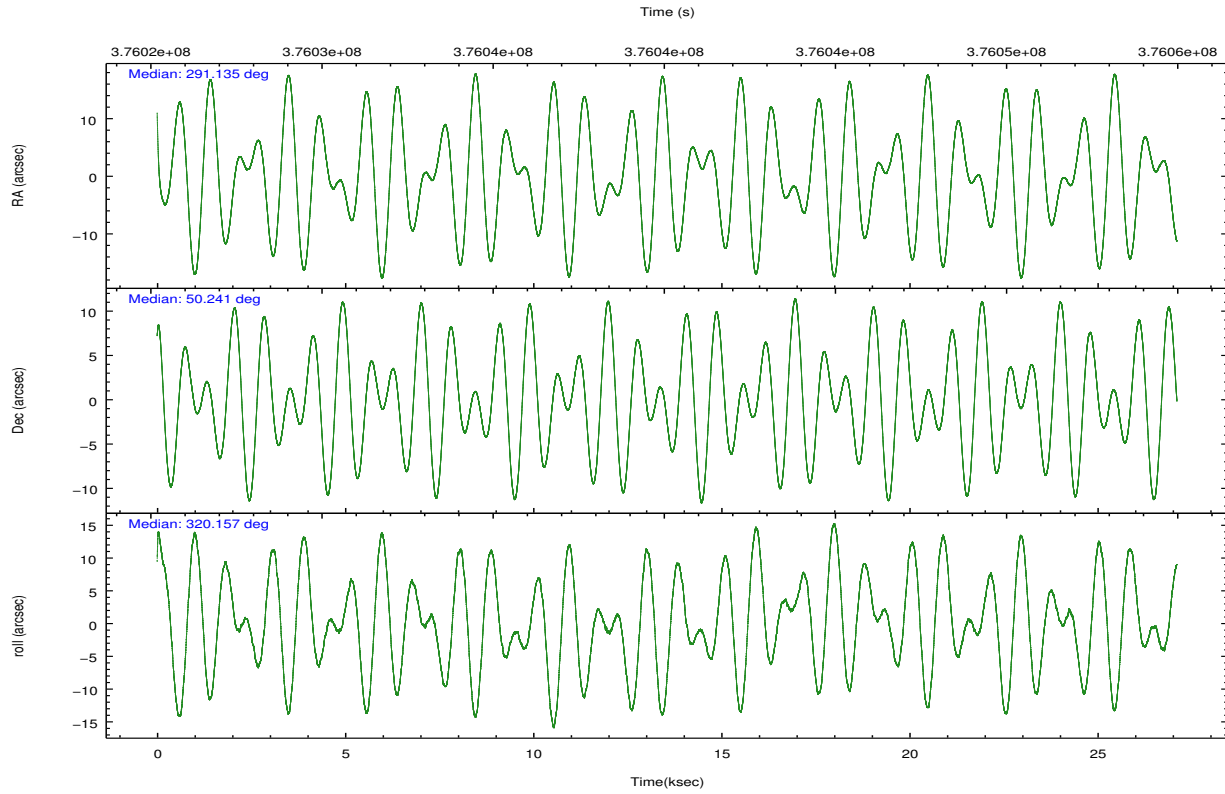
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	245791	342982	223821	321265	285351	219847	grade 0 events	15021	12412	14328	13427	22198	11612
rejected events	213854	184769	190794	178630	215173	191238		6%	3%	6%	4%	7%	5%
rejected %	87%	53%	85%	55%	75%	86%	grade 1 events	234	637	124	481	207	114
								0%	0%	0%	0%	0%	0%
							grade 2 events	6470	48547	6715	30099	15668	5847
								2%	14%	3%	9%	5%	2%
							grade 3 events	2790	6618	2868	12464	7541	2882
								1%	1%	1%	3%	2%	1%
							grade 4 events	2877	6362	2902	12194	6976	2731
								1%	1%	1%	3%	2%	1%
							grade 5 events	10218	24745	10559	29032	14111	11229
								4%	7%	4%	9%	4%	5%
							grade 6 events	4786	84285	6216	74465	17799	5555
								1%	24%	2%	23%	6%	2%
							grade 7 events	203395	159376	180109	149103	200851	179877
								82%	46%	80%	46%	70%	81%

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	291.092417	291.1346426953369	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	50.245364	50.24107772688109	Subarray start row	1	1
[deg] Pointing Roll	320.034981	320.159148007333	Subarray row count	774	774
[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	2.5
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	376026664.184000	376025587.13958			
Observation start date	2009-12-01T03:49:58	2009-12-01T03:33:07			
[s] Observation end time (MET)	376053622.184000	376053844.34101			
Observation end date	2009-12-01T11:19:16	2009-12-01T11:24:04			
Read mode	TIMED	TIMED			

2.3 Aspect



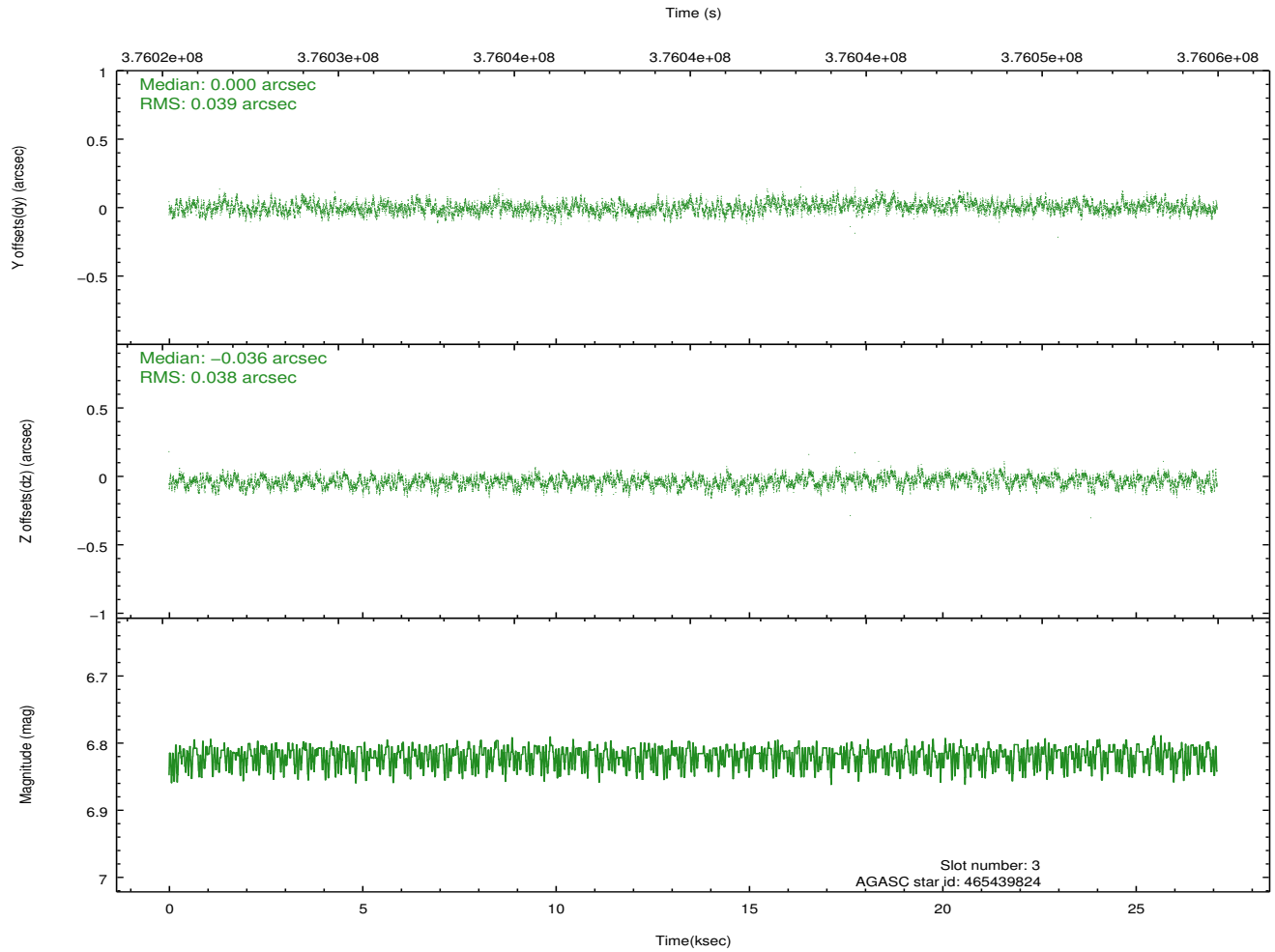
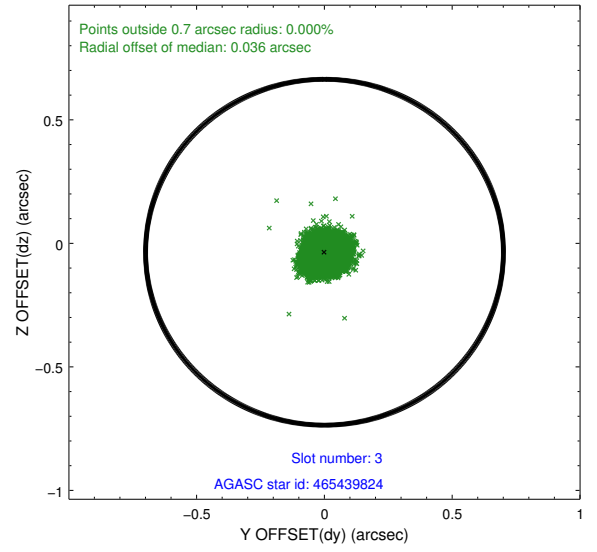
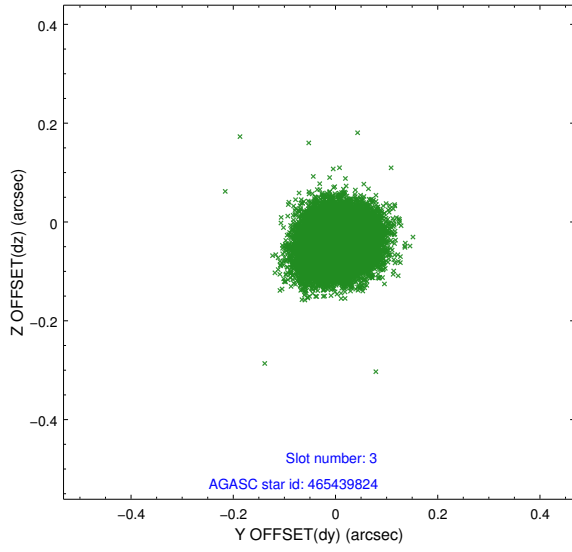


Slot Statistics

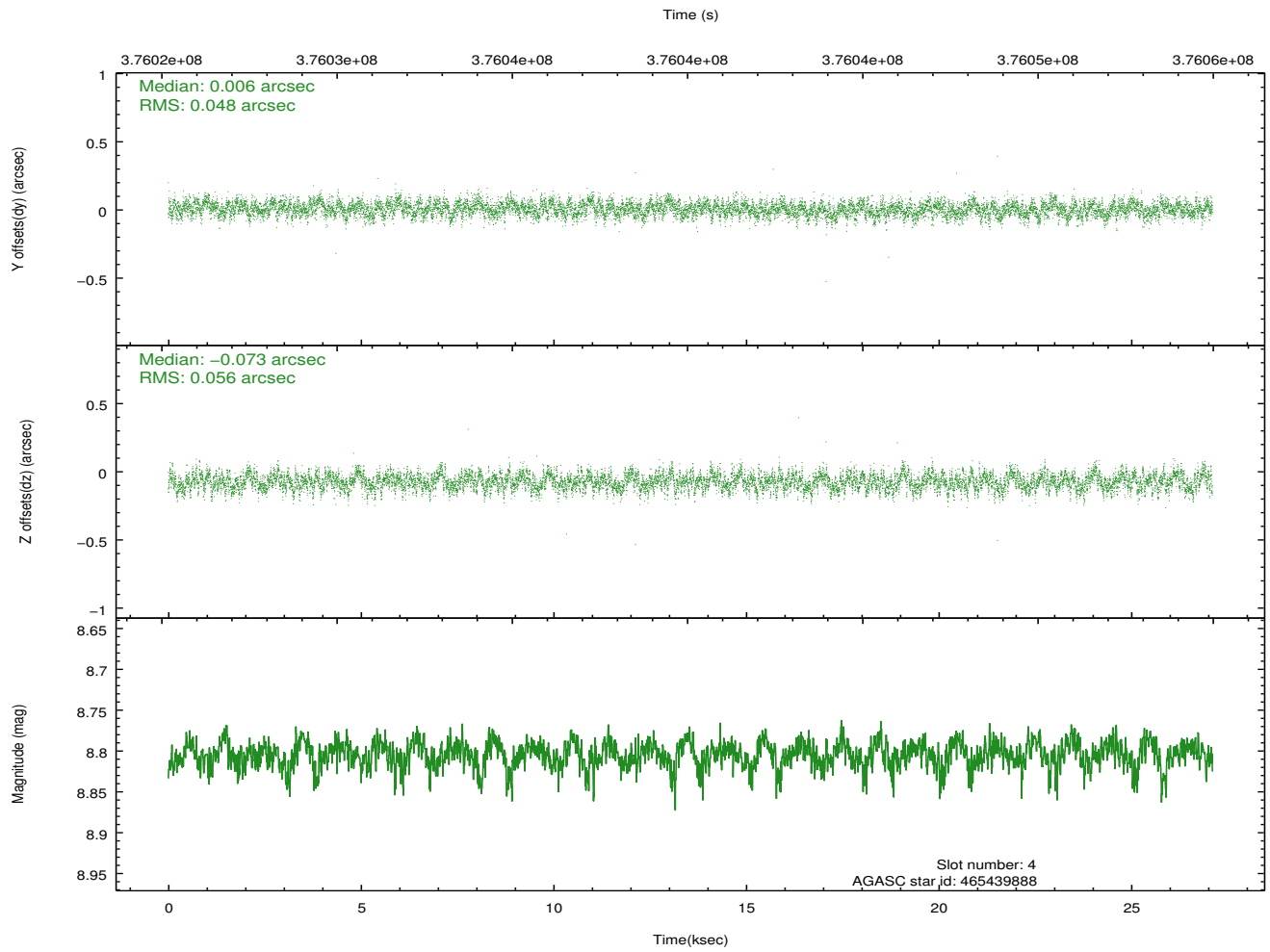
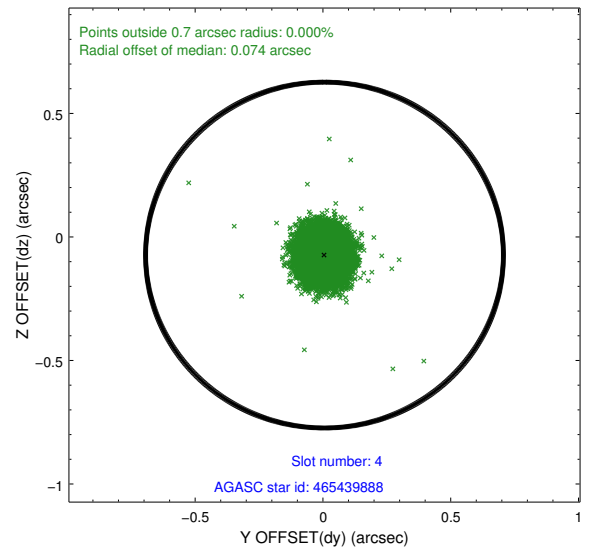
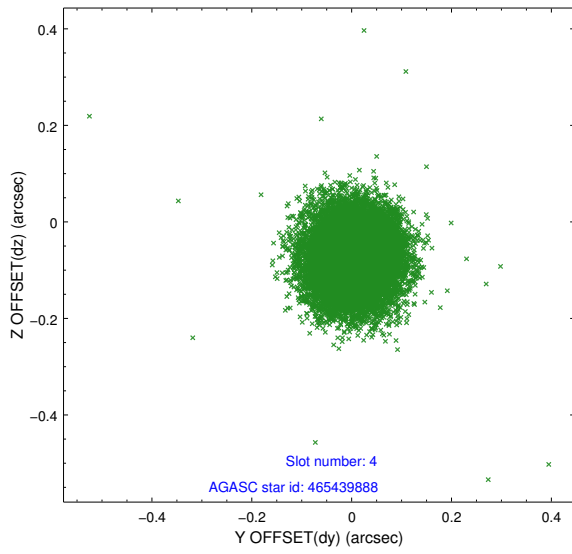
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	6612	-0.112	-0.057	0.018	0.039	0.000000	0.000000	-764.43	-1797.28
1	FID	ACIS-S-4	7.04	6612	0.174	0.069	0.019	0.030	0.000000	0.000000	2149.07	111.22
2	FID	ACIS-S-5	7.09	6612	-0.094	-0.003	0.016	0.035	0.000000	0.000000	-1817.14	104.92
3	GUIDE	465439824	6.82	13224	0.000	-0.036	0.058	0.092	290.131117	50.340225	-1921.03	-1145.63
4	GUIDE	465439888	8.80	13208	0.006	-0.073	0.078	0.124	291.753626	50.234695	1187.35	953.46
5	GUIDE	465447224	8.26	13216	-0.095	-0.016	0.076	0.117	291.830226	50.402668	928.68	1527.90
6	GUIDE	465456704	7.03	13223	0.007	0.131	0.078	0.140	290.849115	50.271291	-489.23	-287.00
7	GUIDE	465447232	8.94	13209	0.077	-0.005	0.088	0.142	291.671863	50.155078	1230.10	613.47

2.4 Star Slots

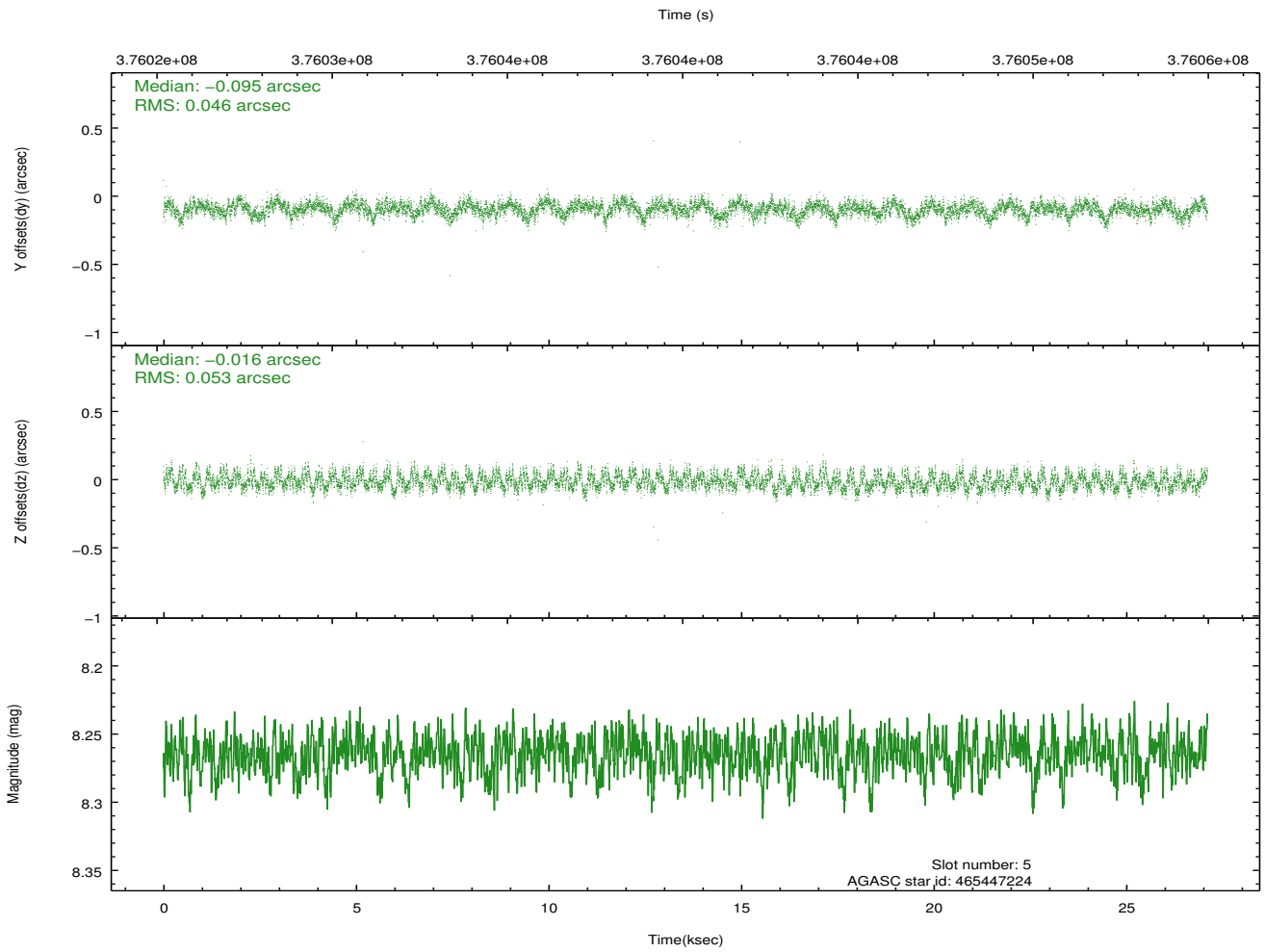
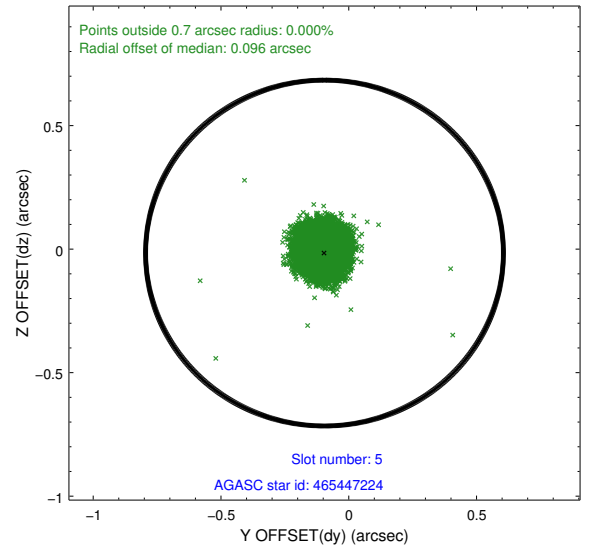
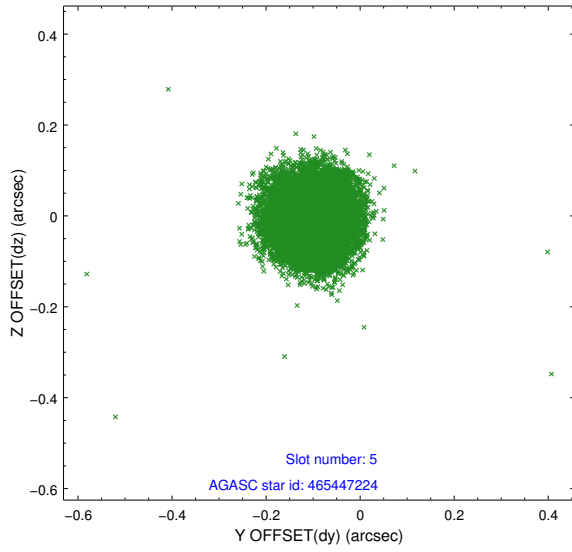
2.4.1 Slot 3



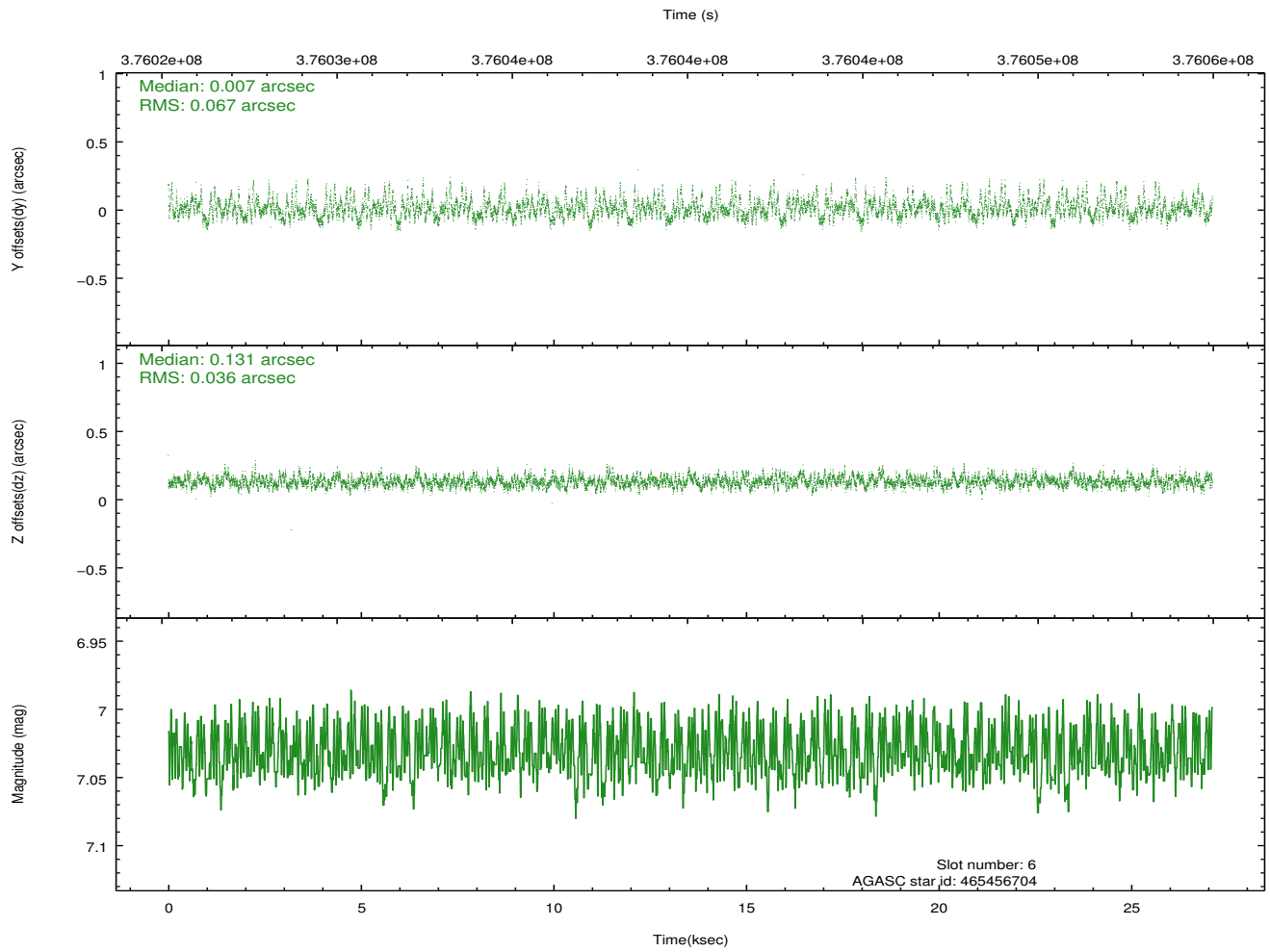
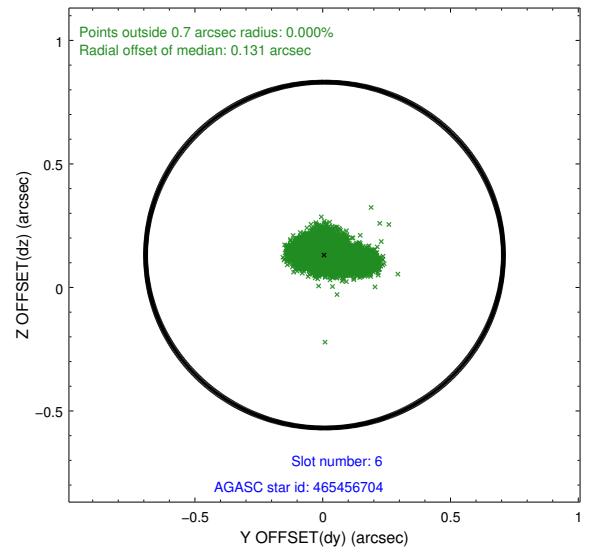
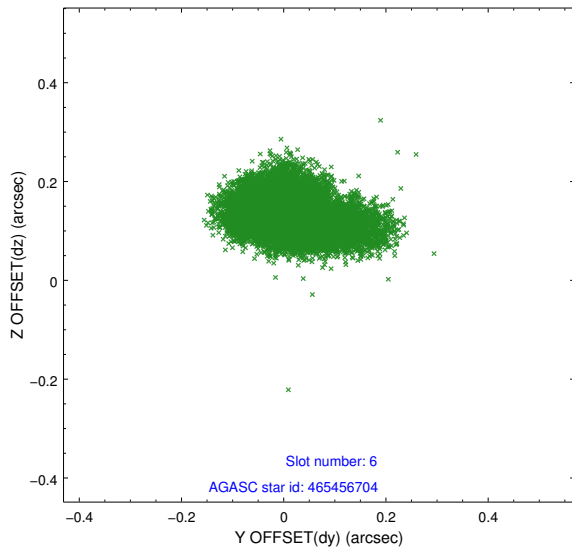
2.4.2 Slot 4



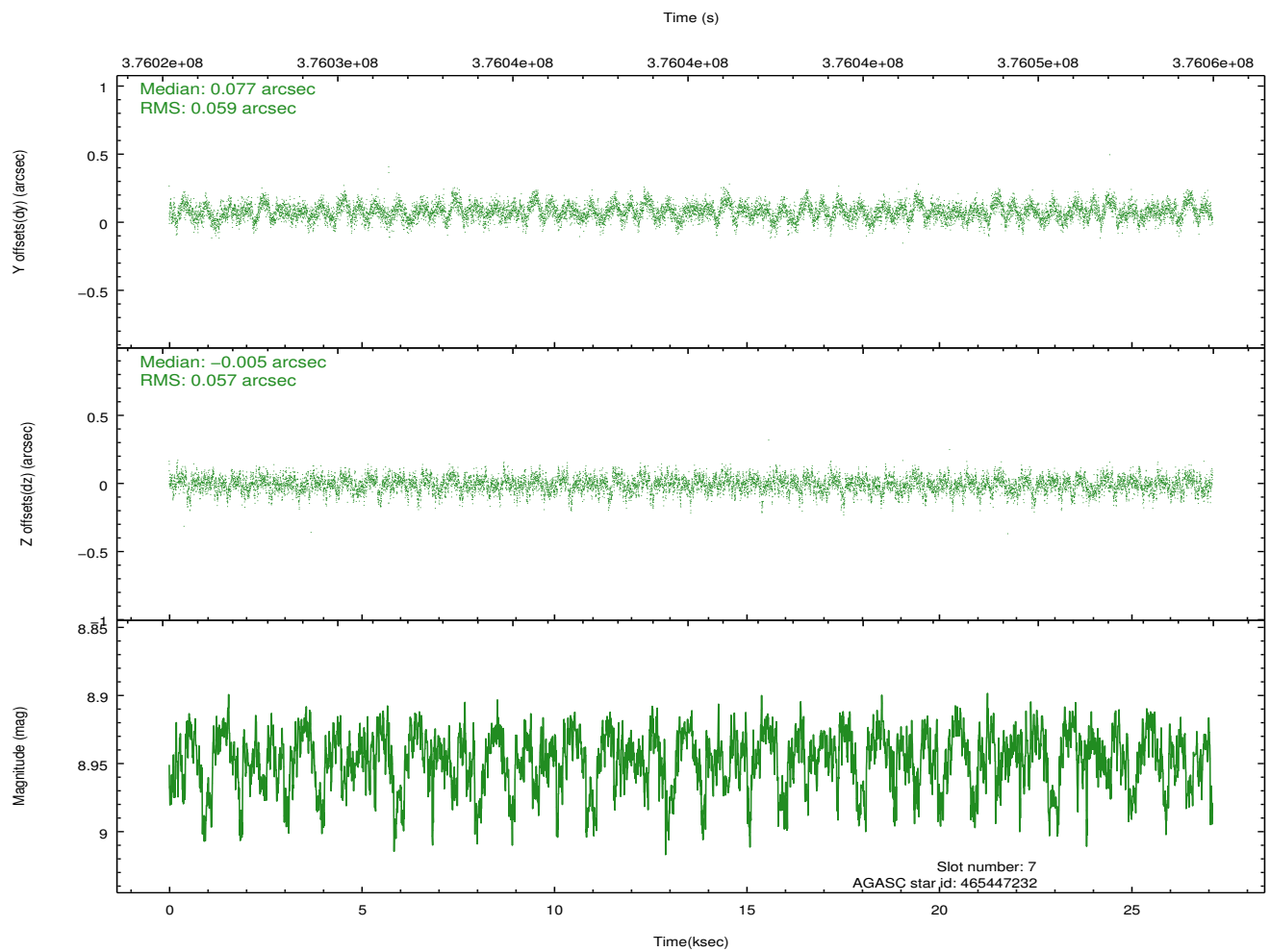
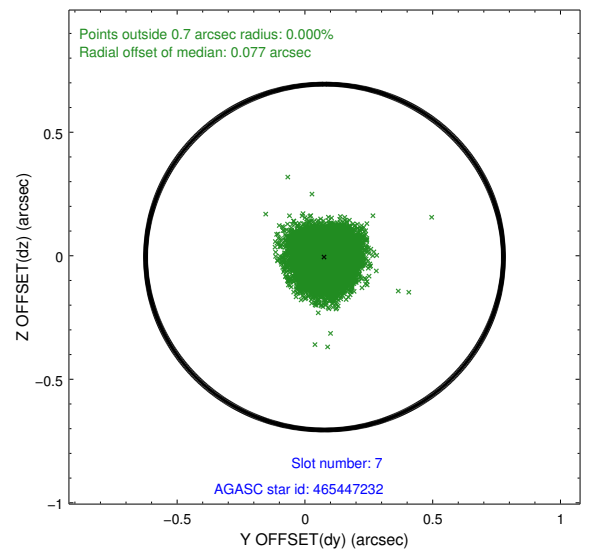
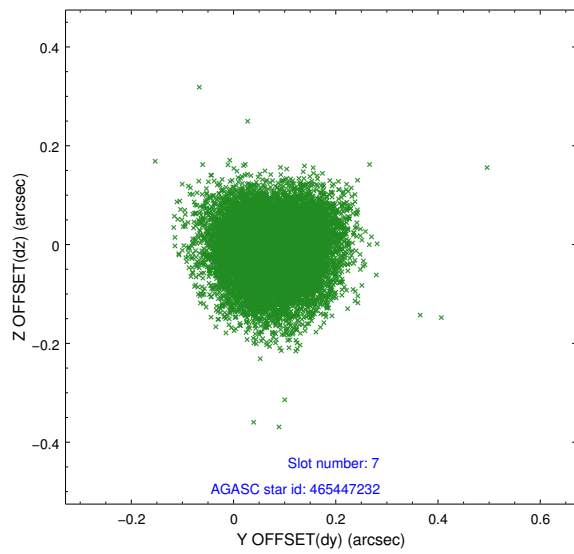
2.4.3 Slot 5



2.4.4 Slot 6

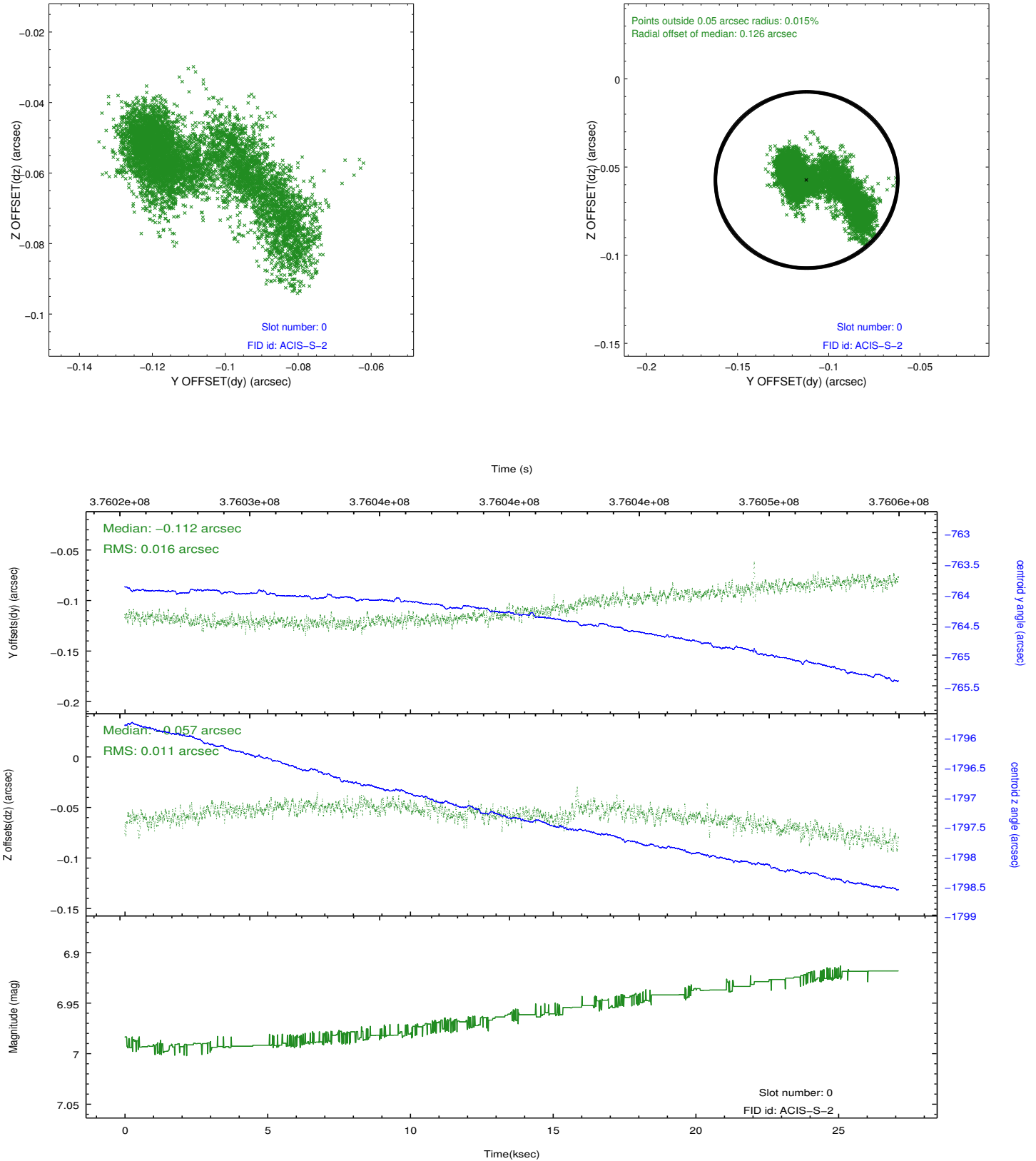


2.4.5 Slot 7

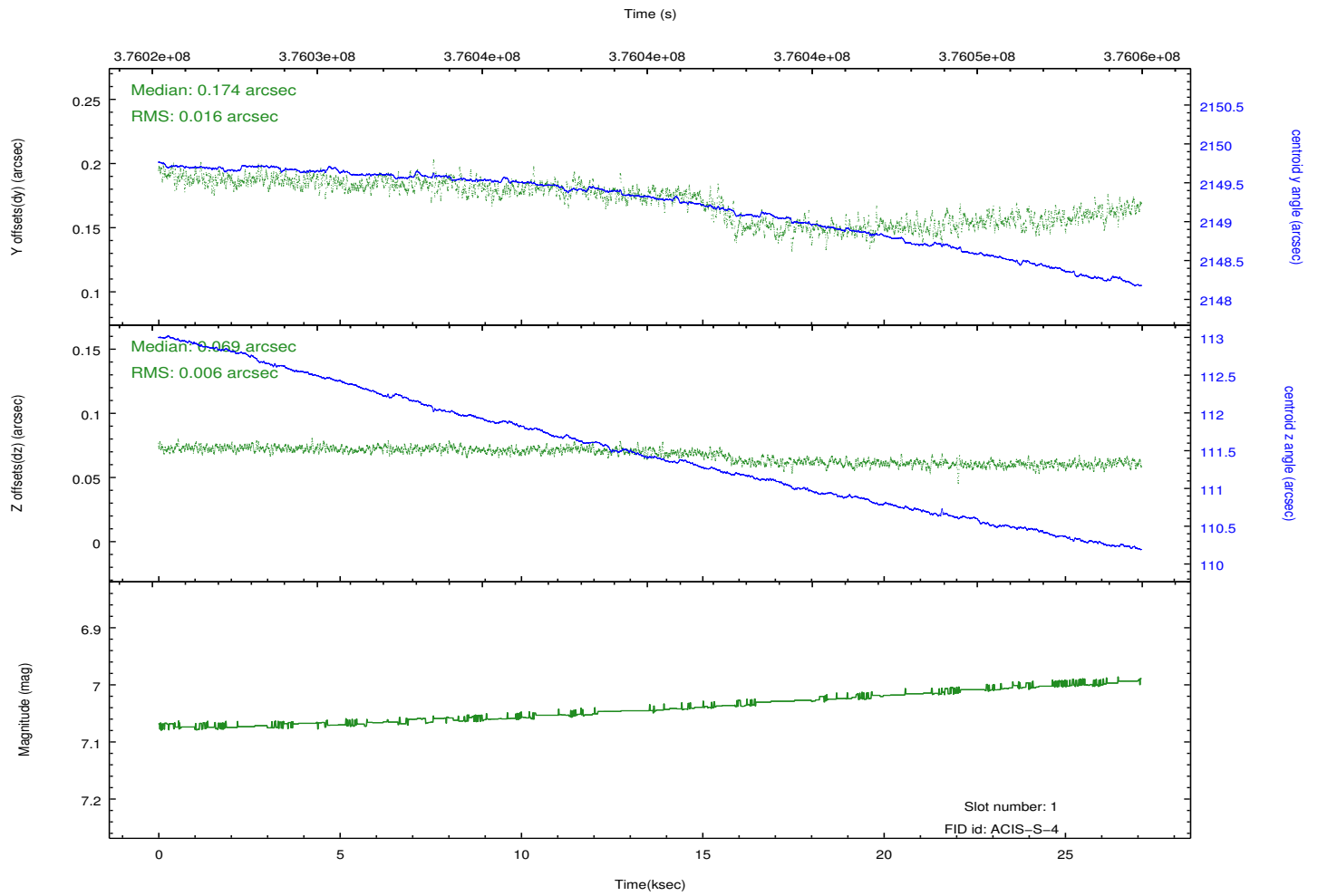
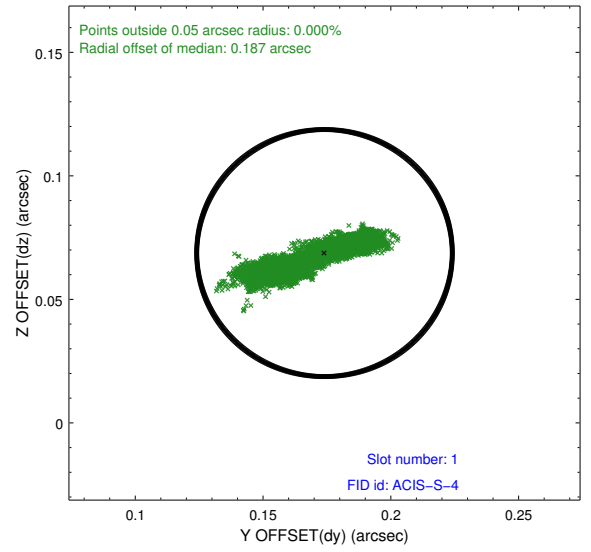
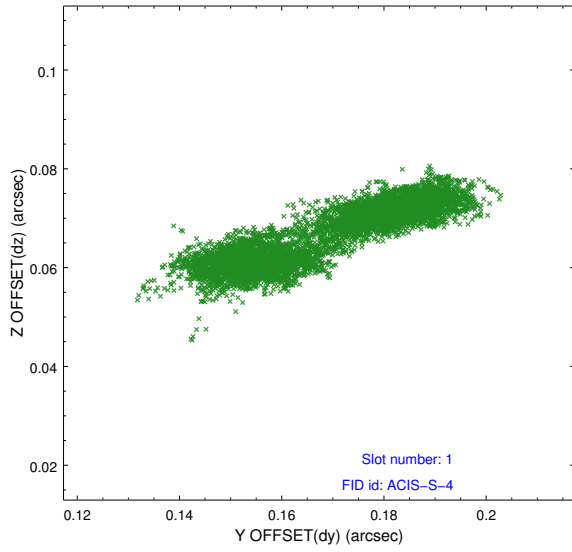


2.5 FID Slots

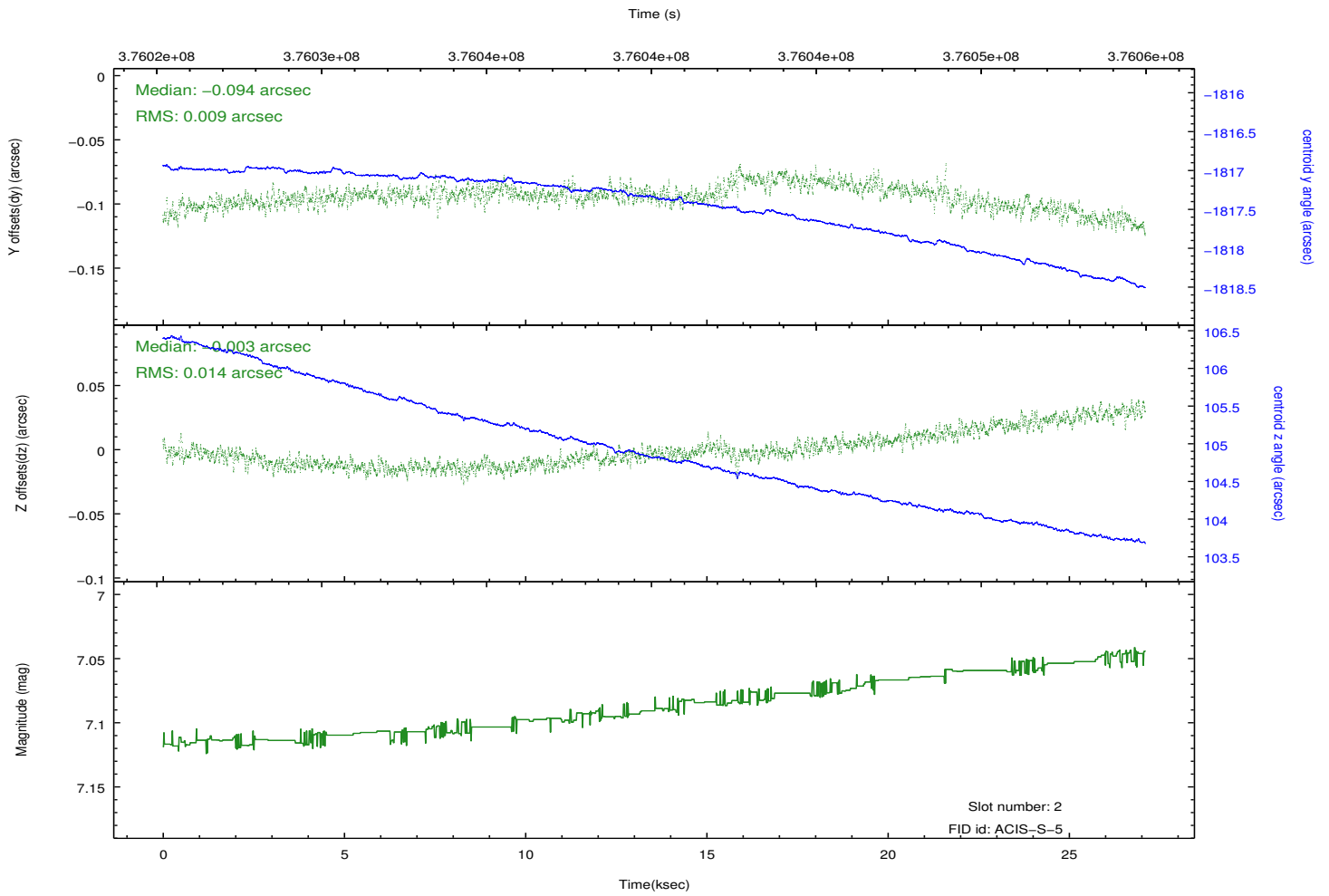
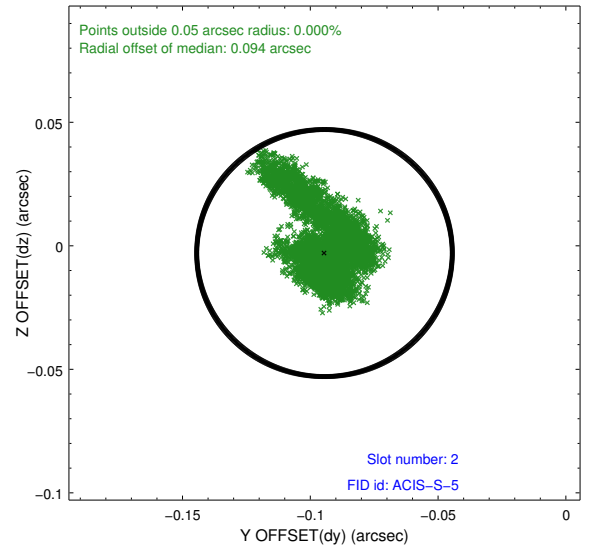
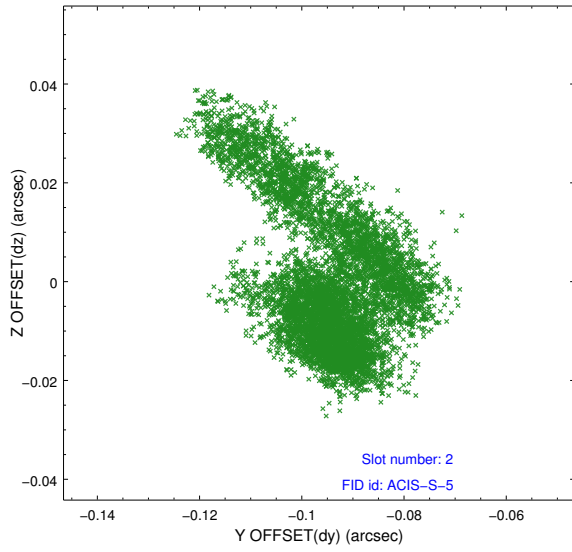
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

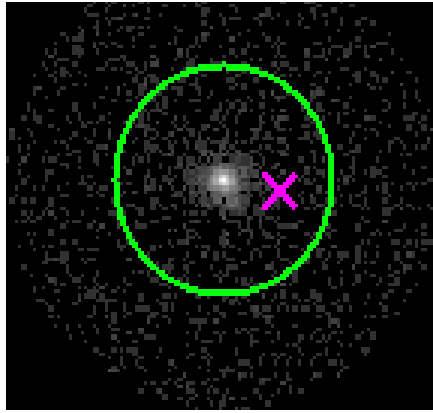


3 Gratings

3.1 HEG Arm



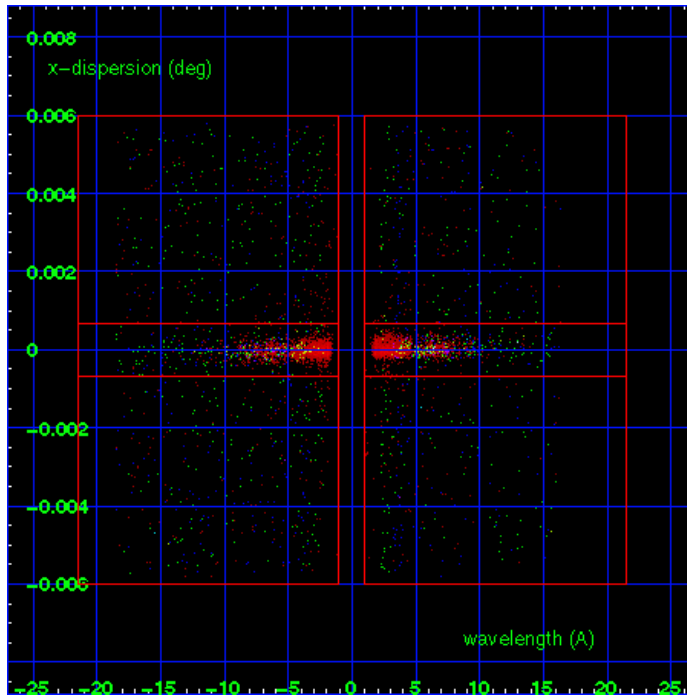
HEG Order Sort 123



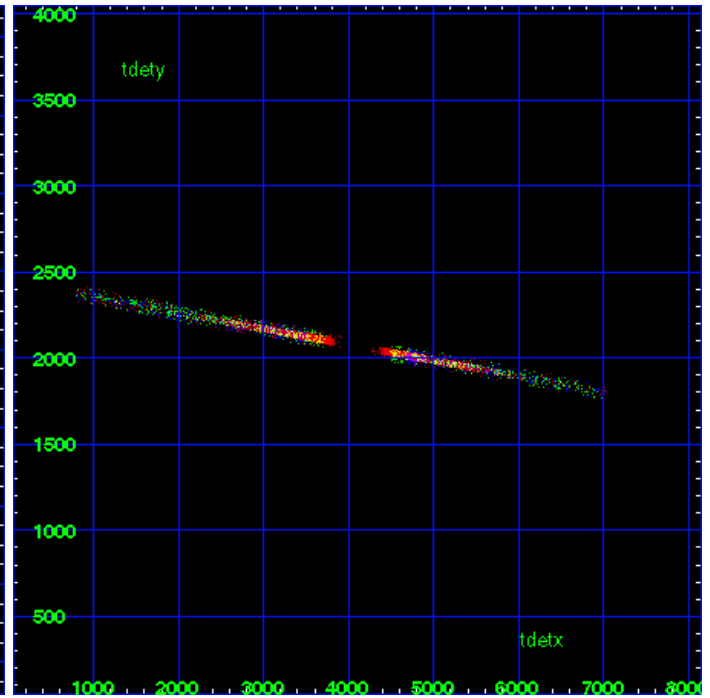
HEG Zero Order



HEG Order Sort ALL

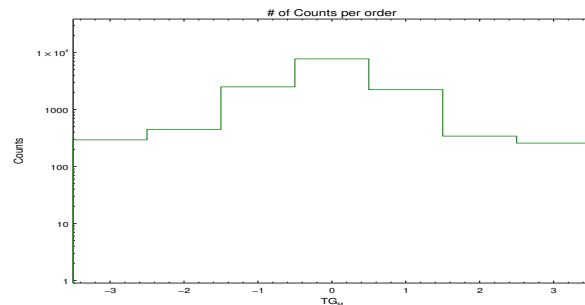


Spot Image HEG

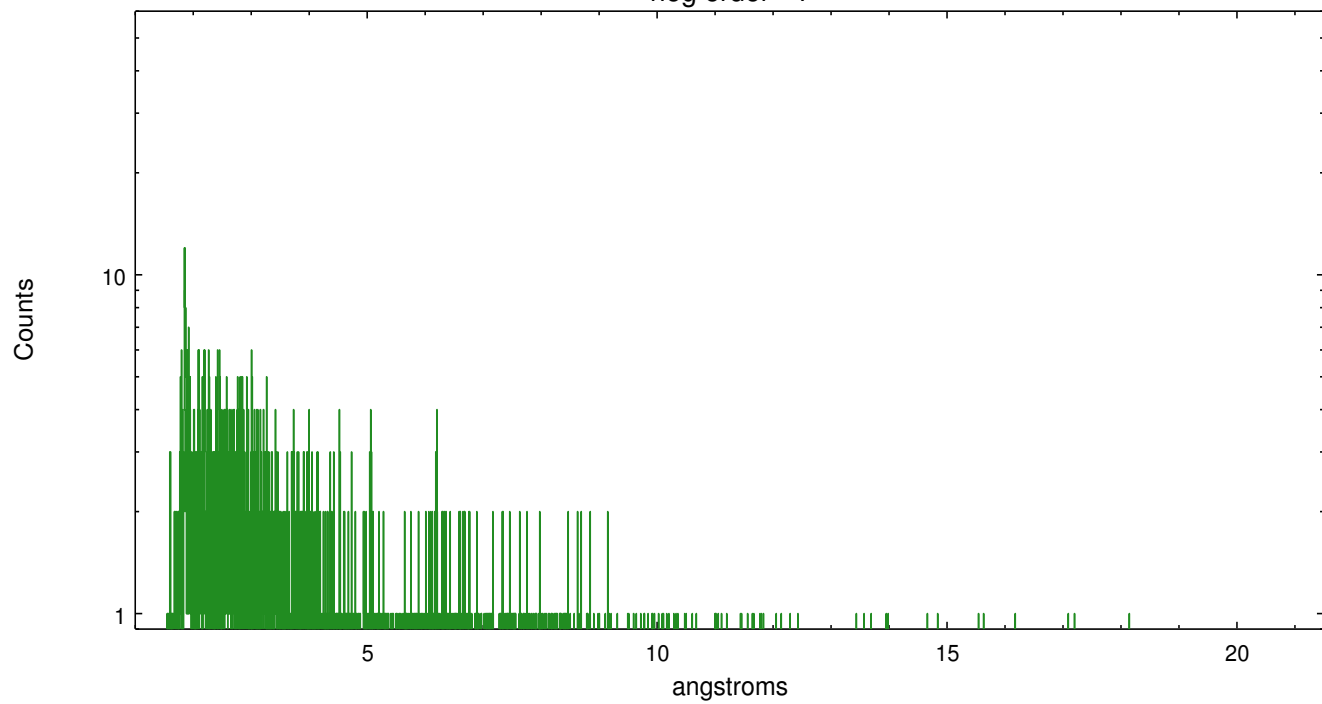


Full Detector HEG

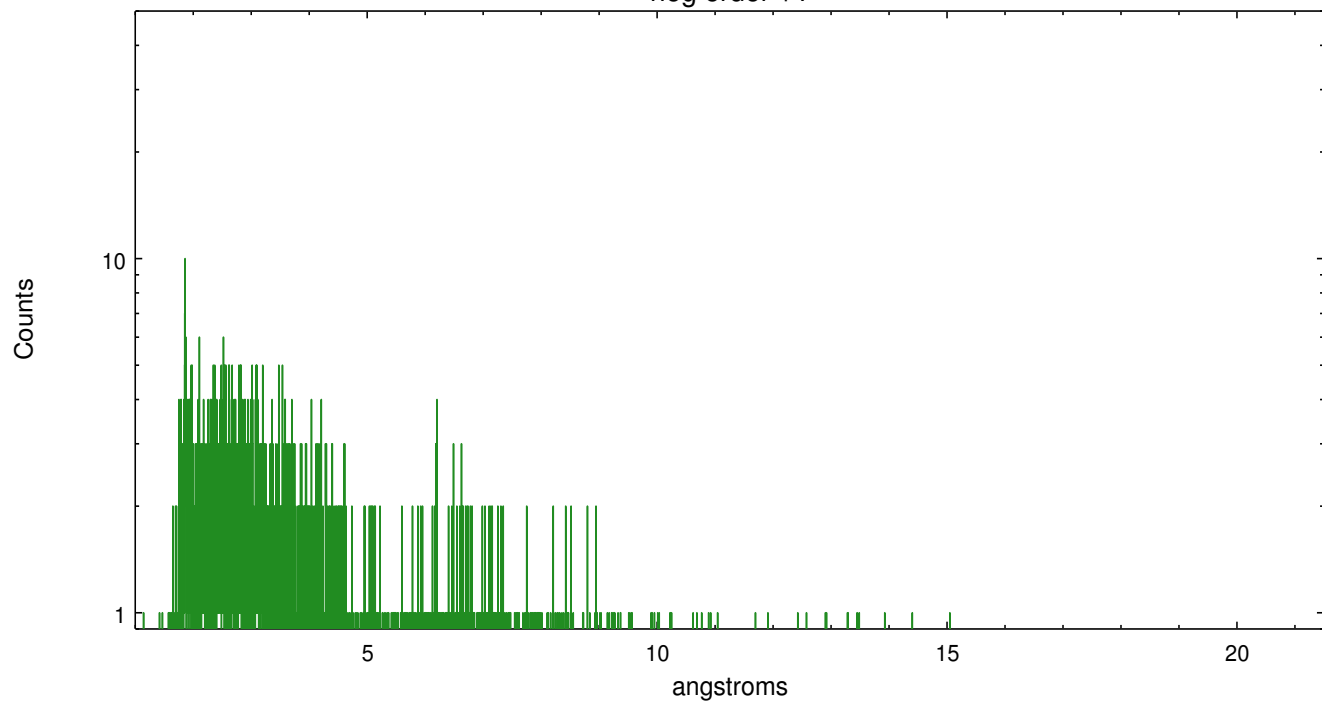
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	293	448	2495	7732	2226	341	257



heg order -1



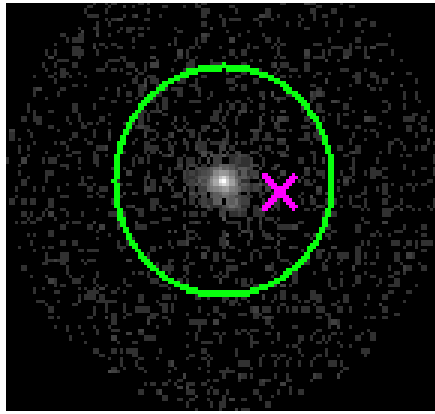
heg order +1



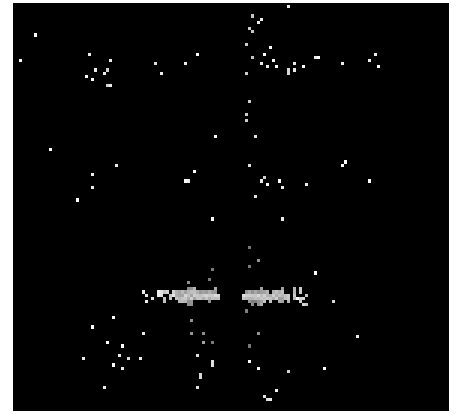
3.2 MEG Arm



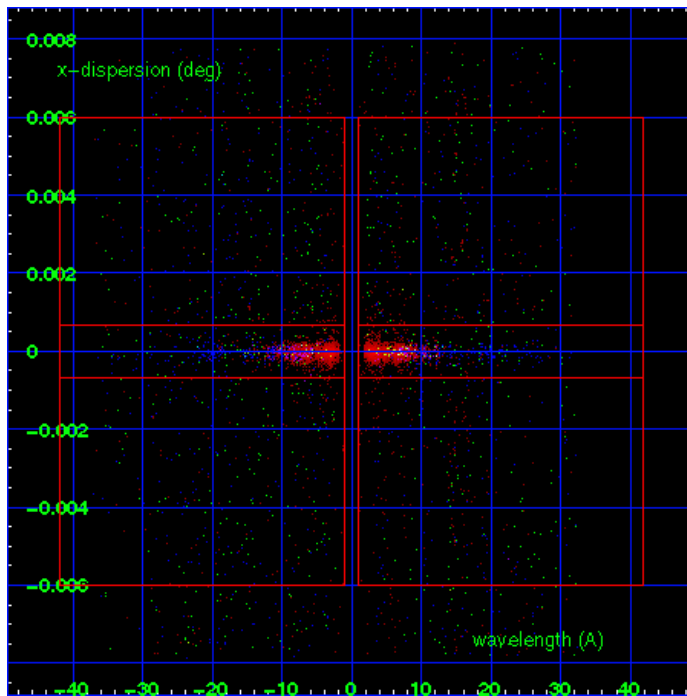
MEG Order Sort 123



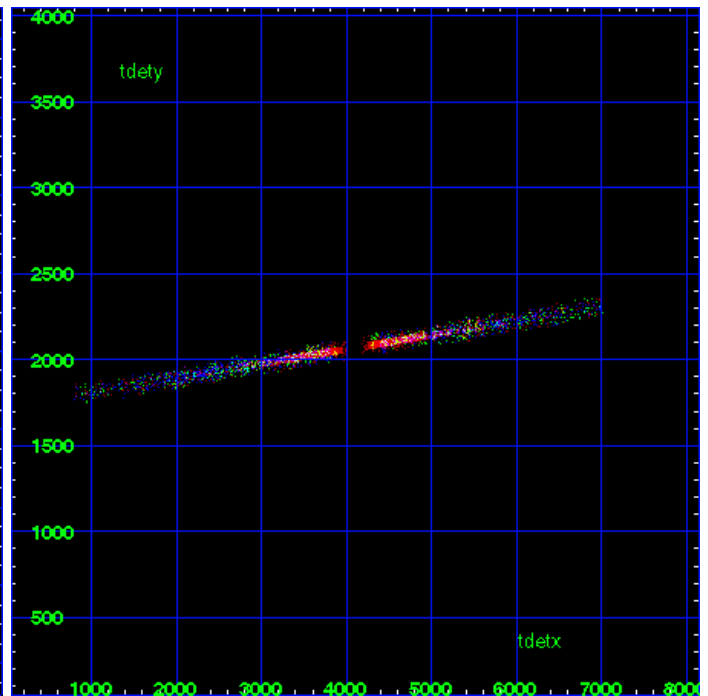
MEG Zero Order



MEG Order Sort ALL

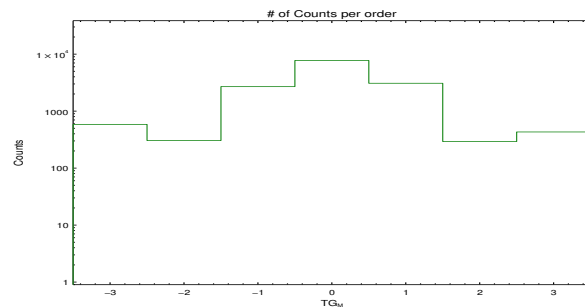


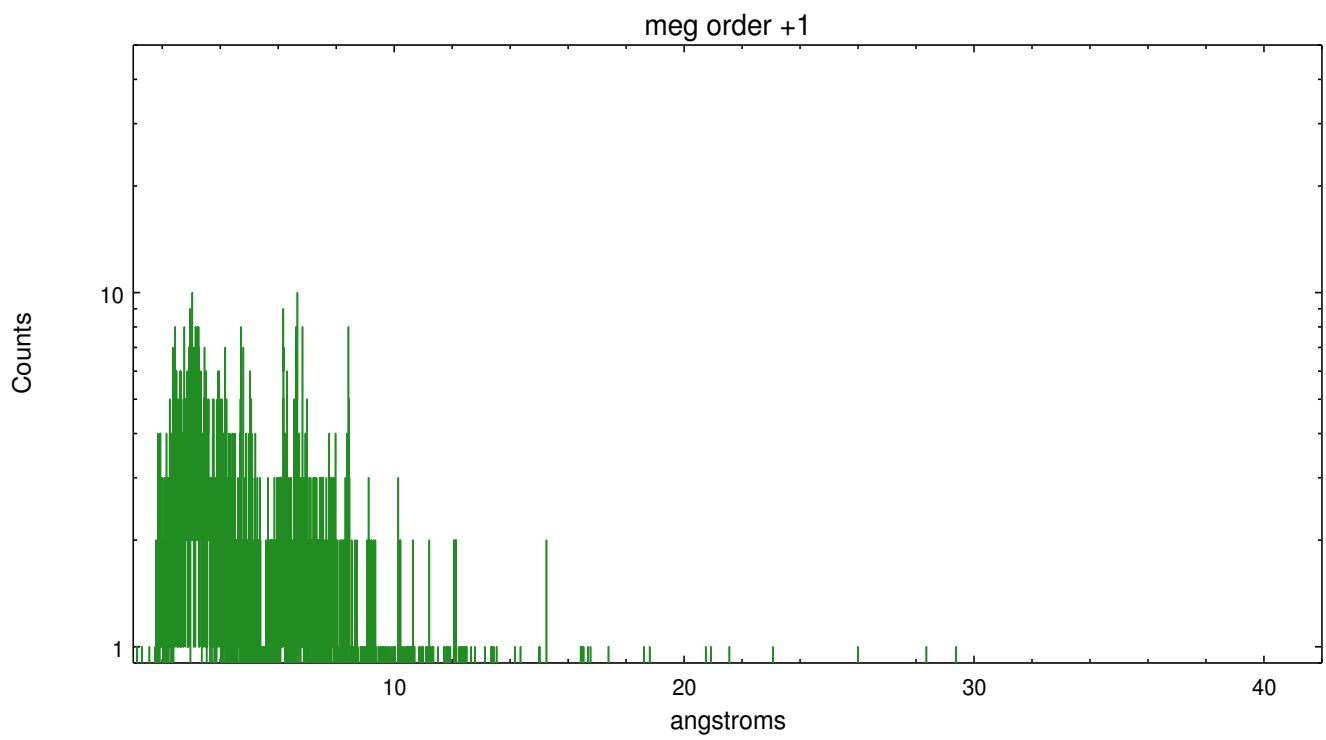
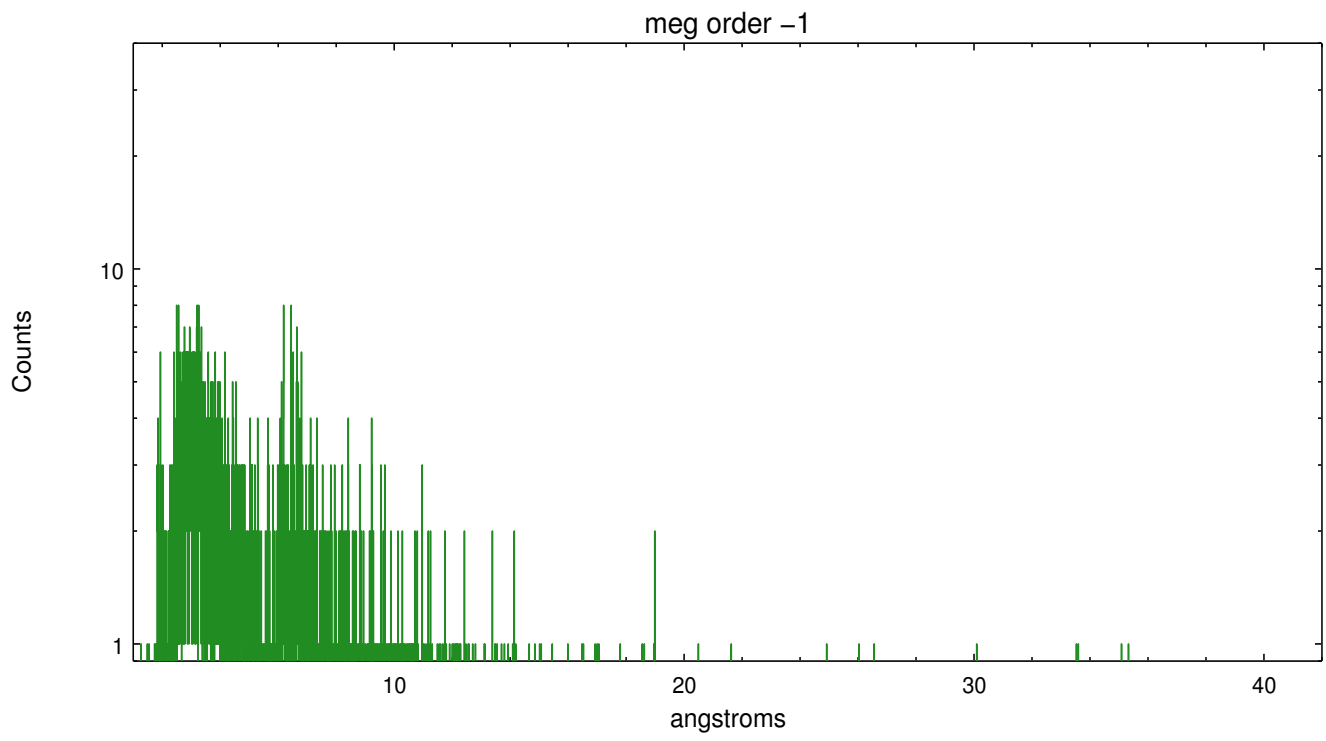
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	585	305	2693	7732	3081	293	431





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.0525

A.2 Comments