

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1941 - L2 Version 3
Chandra X-Ray Center

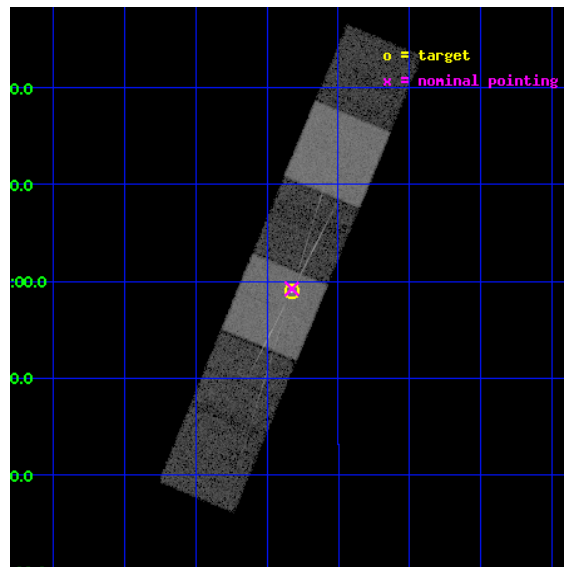
L2 Processing Date : Sep 18 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

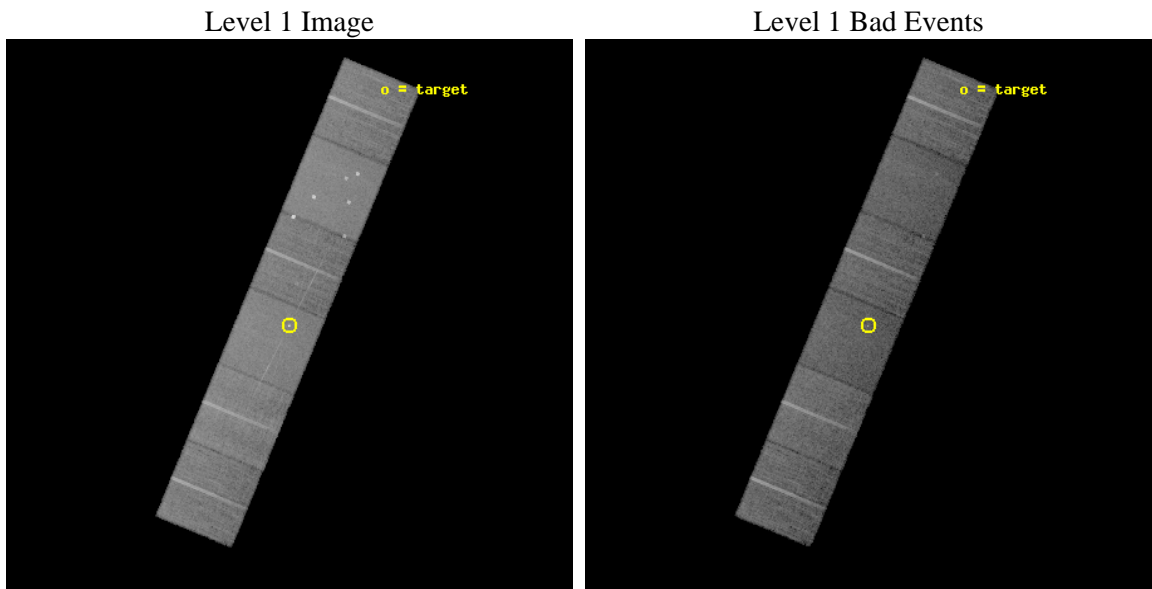
seq_num	400154	Sequence number
obs_id	1941	Observation id
title	MAPPING THE JETS OF SS 433	Proposal title
observer	Dr. masaaki namiki	Principal investigator
object	SS 433	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.95625	Observer's specified target RA [deg]
dec_targ	4.982806	Observer's specified target Dec [deg]
ra_nom	287.9562462437	Nominal RA [deg]
dec_nom	4.9872900605285	Nominal Dec [deg]
roll_nom	112.58832591091	Nominal Roll [deg]
revision	3	Processing version of data
ontime	18755.200017452	Sum of GTIs [s]
livetime	18517.710381806	Livetime [s]
ontime4	18755.200017452	Sum of GTIs [s]
ontime5	18755.200017452	Sum of GTIs [s]
ontime6	18755.200017452	Sum of GTIs [s]
ontime7	18755.200017452	Sum of GTIs [s]
ontime8	18755.200017452	Sum of GTIs [s]
ontime9	18755.200017452	Sum of GTIs [s]
l2events	188640	Number of level 2 events



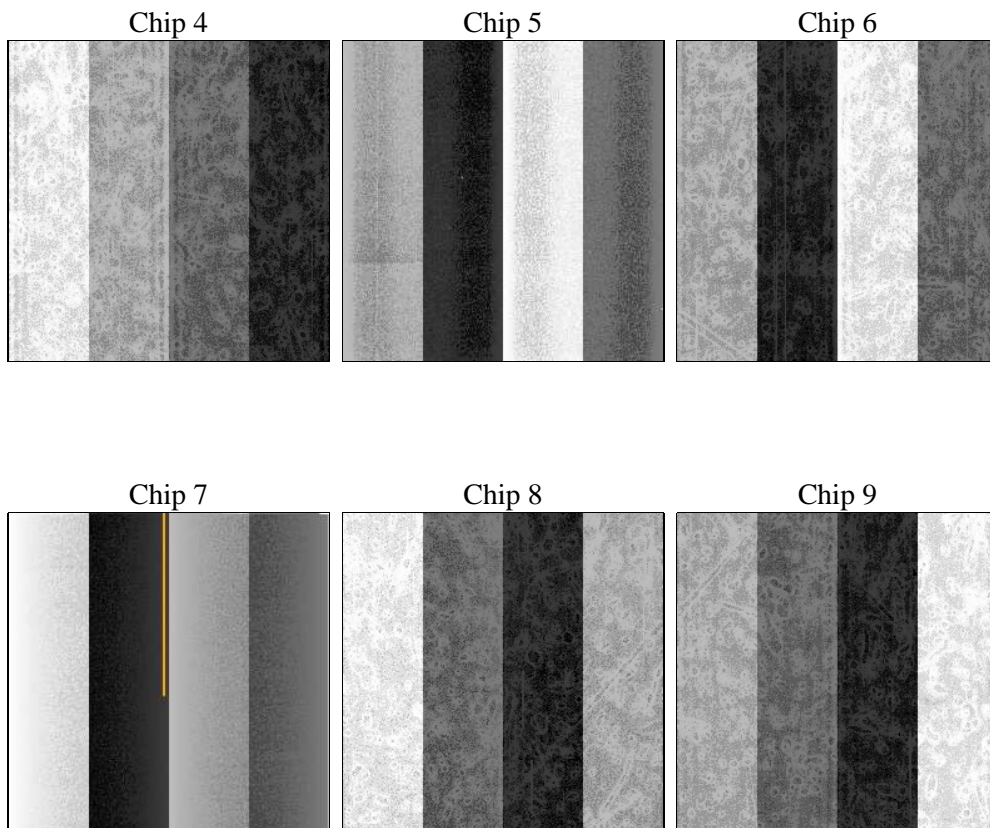
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	18755.200017452	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime4	18755.200017452	Sum of GTIs [s]
date	2012-09-18T23:05:22	Date and time of file creation	ontime5	18755.200017452	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	18755.200017452	Sum of GTIs [s]
			ontime7	18755.200017452	Sum of GTIs [s]
			ontime8	18755.200017452	Sum of GTIs [s]
			ontime9	18755.200017452	Sum of GTIs [s]
			l1events	880033	Number of level 1 events

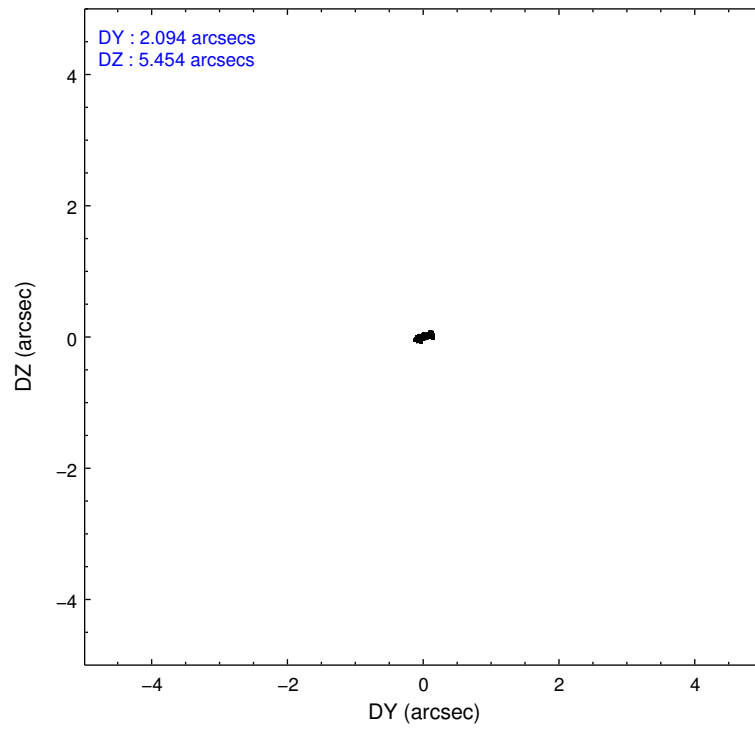
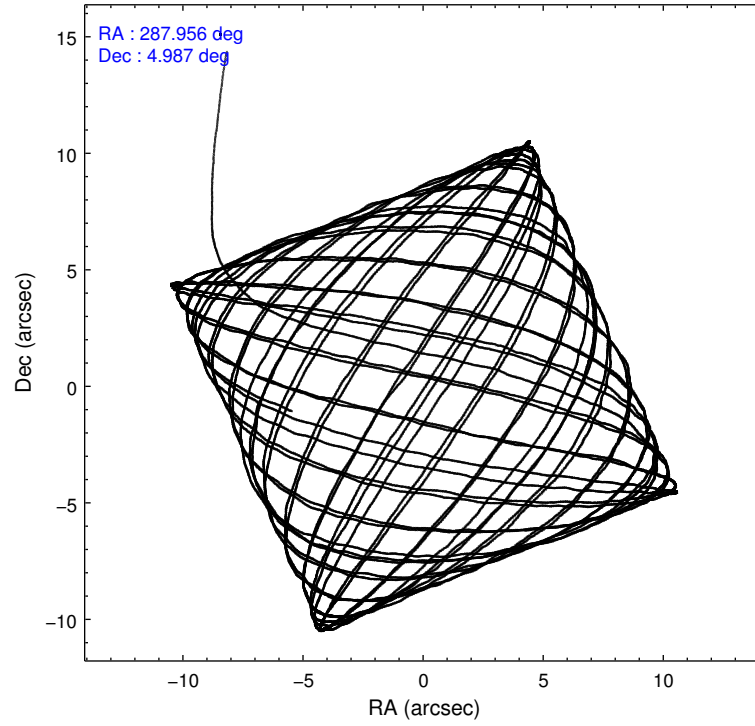
2.1.4 Events

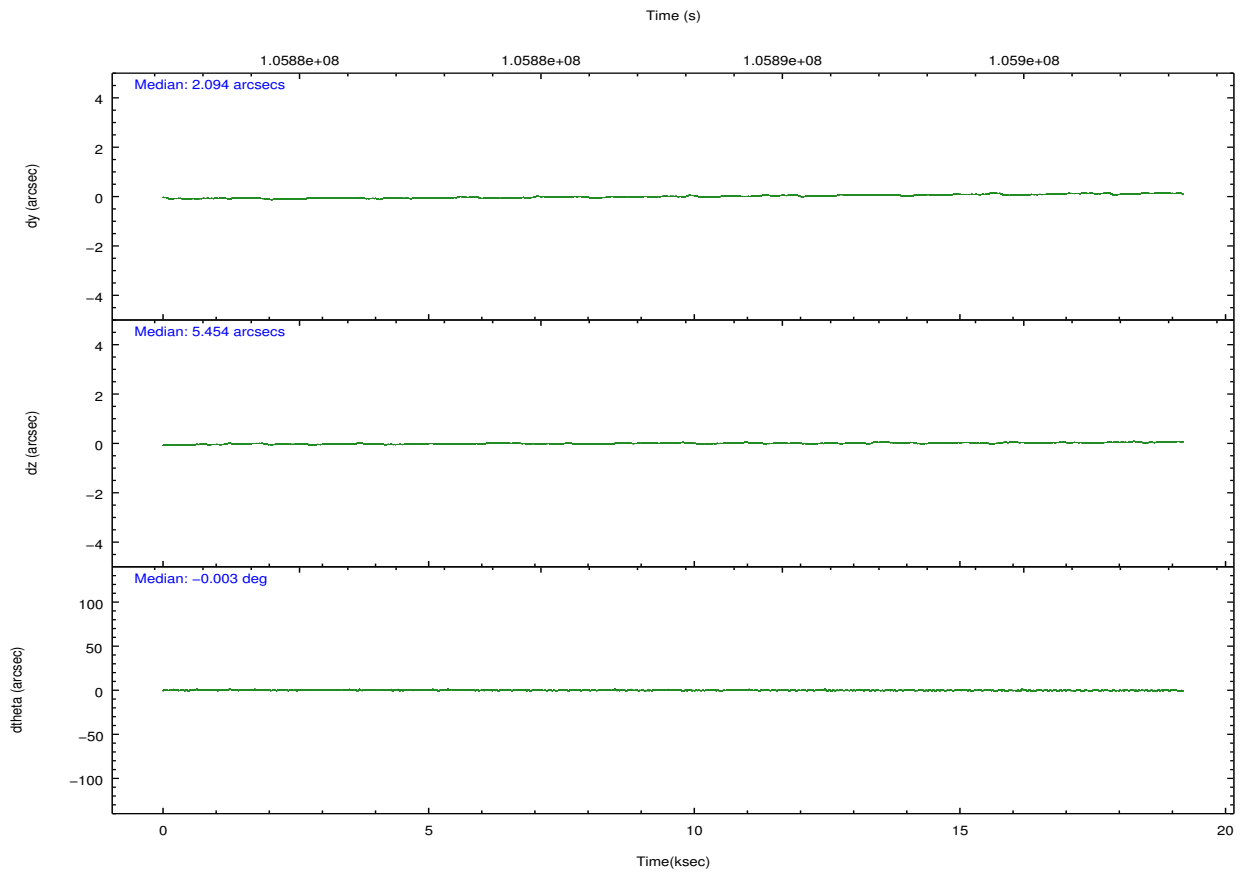
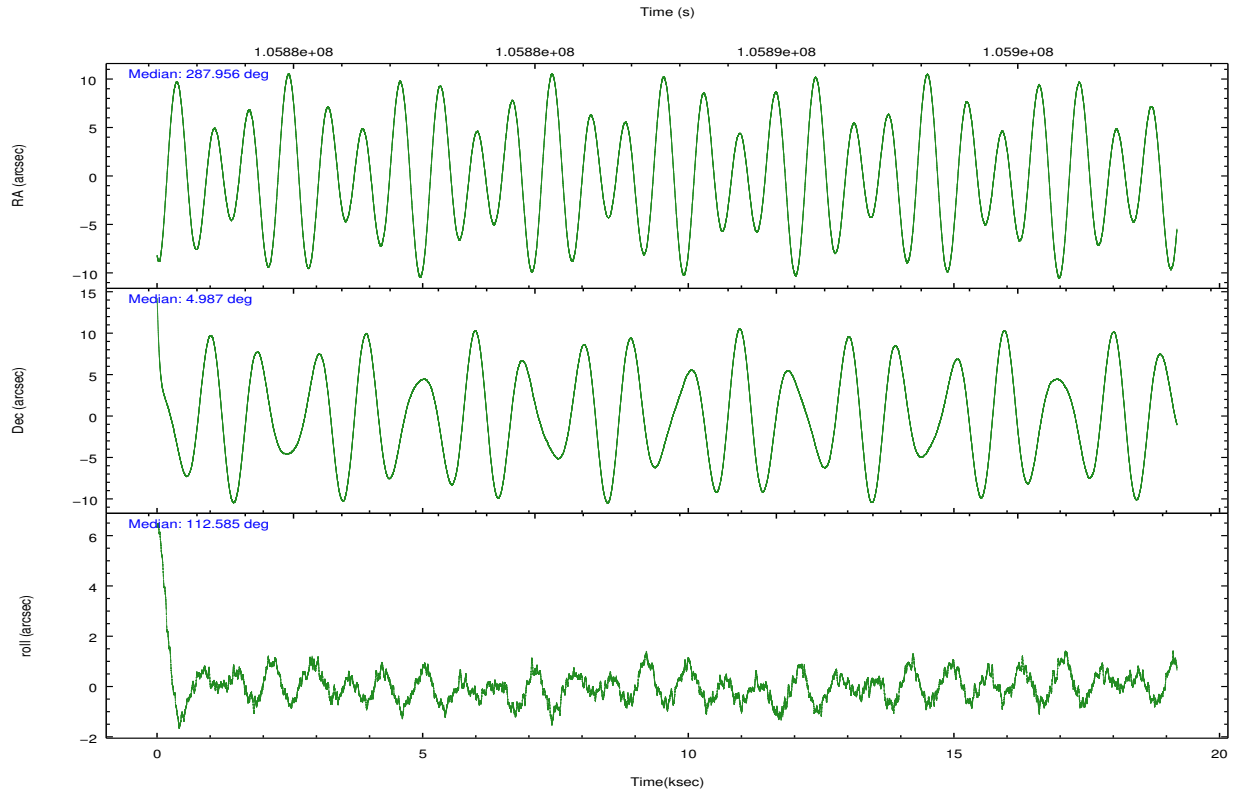
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	136451	173867	130511	158806	158021	122377	grade 0 events	5734	13956	12702	6991	10345	5567
rejected events	122098	91975	109188	90069	125436	108263		4%	8%	9%	4%	6%	4%
rejected %	89%	52%	83%	56%	79%	88%	grade 1 events	55	388	88	177	94	47
								0%	0%	0%	0%	0%	0%
							grade 2 events	3492	21852	2951	13847	6781	2921
								2%	12%	2%	8%	4%	2%
							grade 3 events	1320	3315	1433	6395	3454	1414
								0%	1%	1%	4%	2%	1%
							grade 4 events	1256	3144	1513	6324	3236	1372
								0%	1%	1%	3%	2%	1%
							grade 5 events	4345	12781	5197	14858	6421	5337
								3%	7%	3%	9%	4%	4%
							grade 6 events	2554	39640	2726	35186	8772	2851
								1%	22%	2%	22%	5%	2%
							grade 7 events	117695	78791	103901	75028	118918	102868
								86%	45%	79%	47%	75%	84%

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	287.978188	287.9562462437032	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.970915	4.987290060528456	Alternating exposures requested	N	N
[deg] Pointing Roll	112.429788	112.588325910907	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	105840064.184000	105840064.184000			
[s] Window stop time (MET)	105926464.184000	105926464.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.132523	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
Phase constraints	Y	Y			
[d] Phase period	13.082000	13.082000			
[d] Phase epoch (MJD)	46595.700000	46595.700000			
Phase start	0.100000	0.100000			
Phase end	0.150000	0.150000			
Phase start error	0.030000	0.030000			
Phase end error	0.030000	0.030000			
[s] Observation start time (MET)	105878333.184000	105877553.98314			
Observation start date	2001-05-10T10:37:49	2001-05-10T10:25:53			
[s] Observation end time (MET)	105897333.184000	105899184.04648			

2.3 Aspect



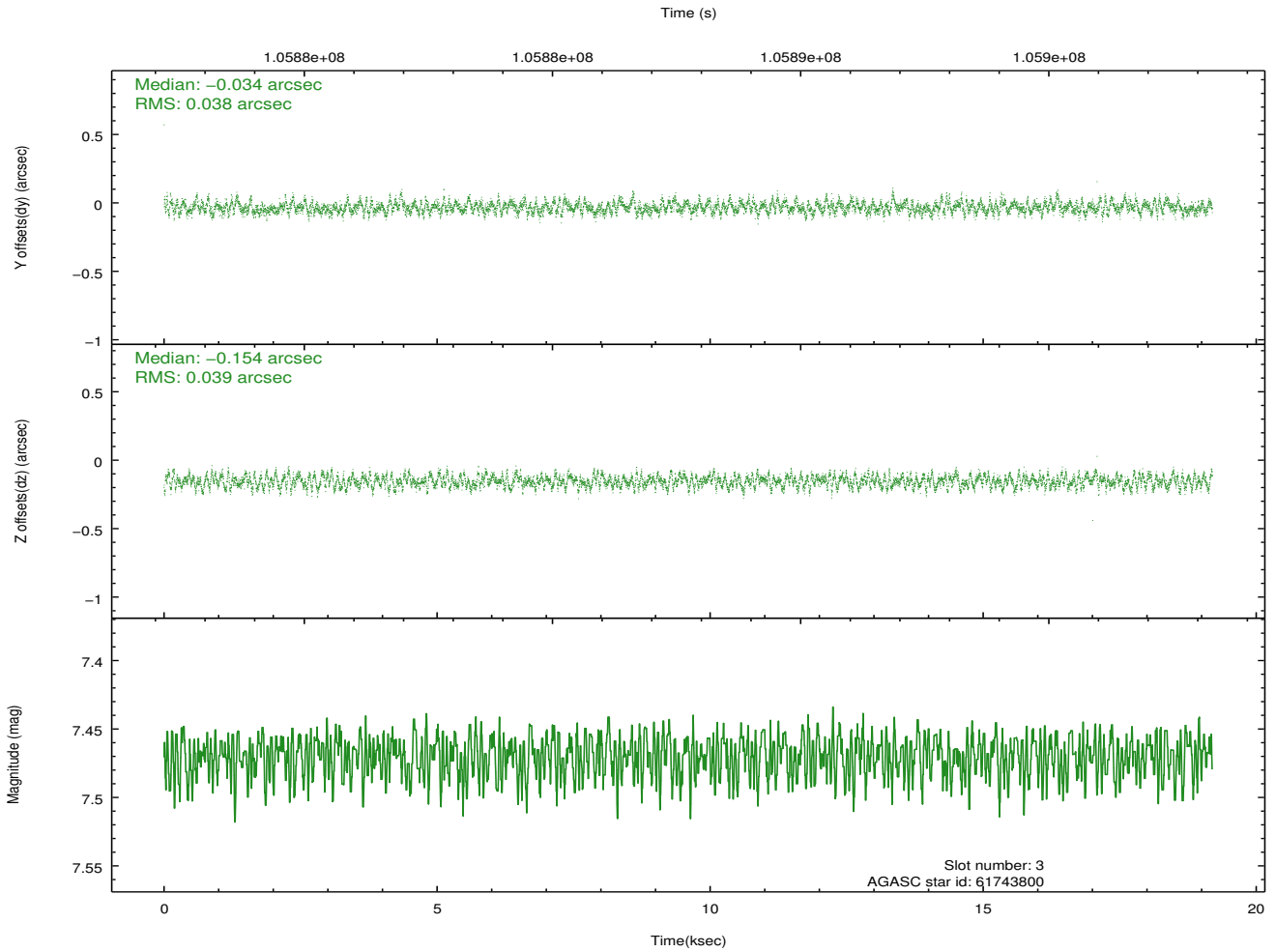
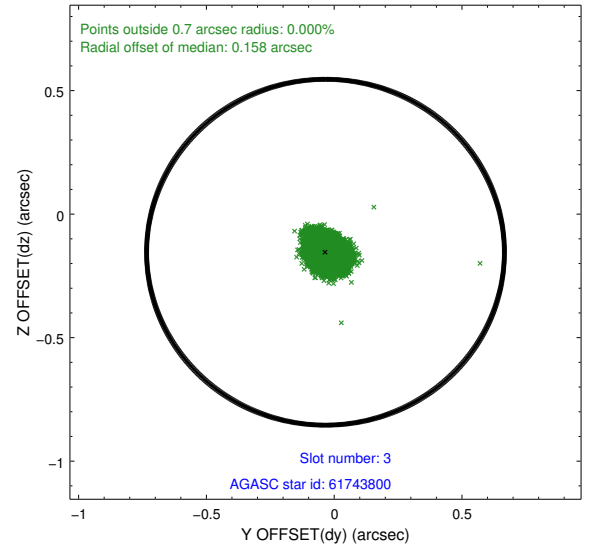
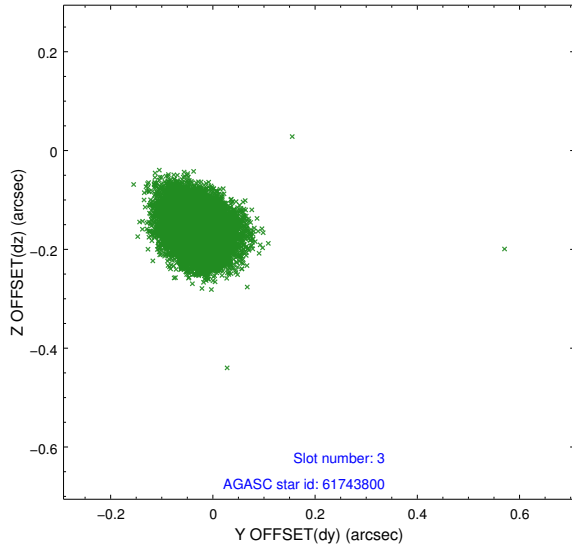


Slot Statistics

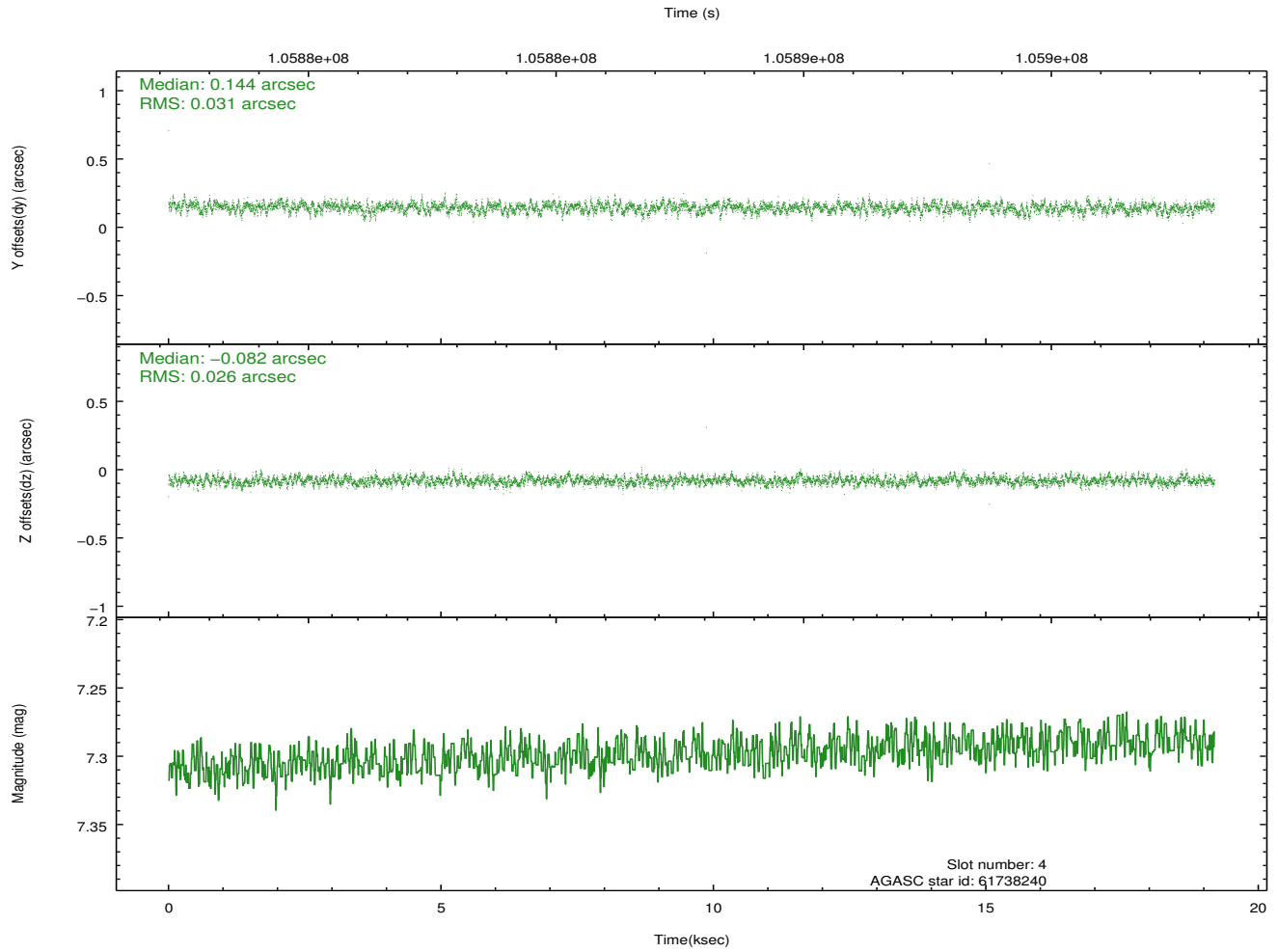
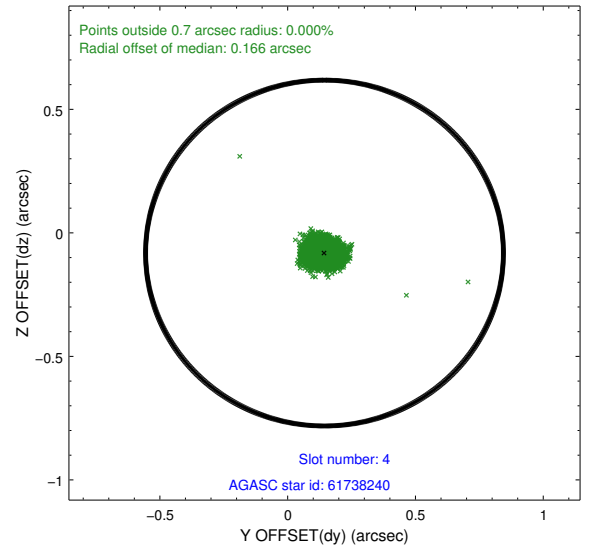
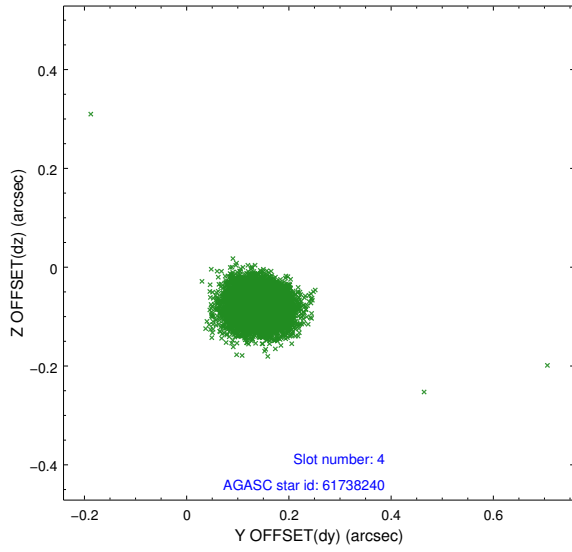
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4681	-0.025	-0.052	0.007	0.011	0.000000	0.000000	-754.56	-1788.76
1	FID	ACIS-S-4	7.20	4679	-0.017	0.026	0.006	0.011	0.000000	0.000000	2158.66	119.54
2	FID	ACIS-S-5	7.23	4682	0.011	0.034	0.008	0.013	0.000000	0.000000	-1807.08	113.50
3	GUIDE	61743800	7.47	9365	-0.034	-0.154	0.059	0.091	287.776811	5.274666	1286.21	249.72
4	GUIDE	61738240	7.30	9364	0.144	-0.082	0.042	0.069	287.996556	4.354861	-2075.01	784.91
5	GUIDE	61745024	7.60	9361	-0.020	0.080	0.048	0.076	288.156168	5.297362	842.71	-1038.16
6	GUIDE	61741304	7.64	9365	-0.136	0.103	0.047	0.074	287.957418	5.377327	1380.72	-489.60
7	GUIDE	61735664	7.81	9363	0.047	0.057	0.054	0.085	288.278990	4.935643	-528.64	-949.13

2.4 Star Slots

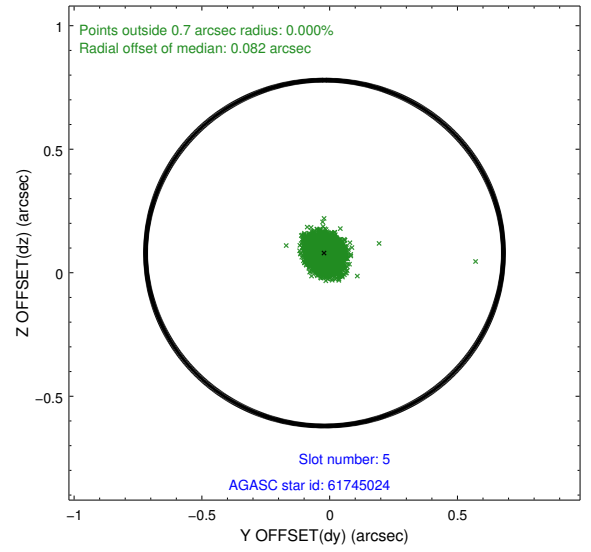
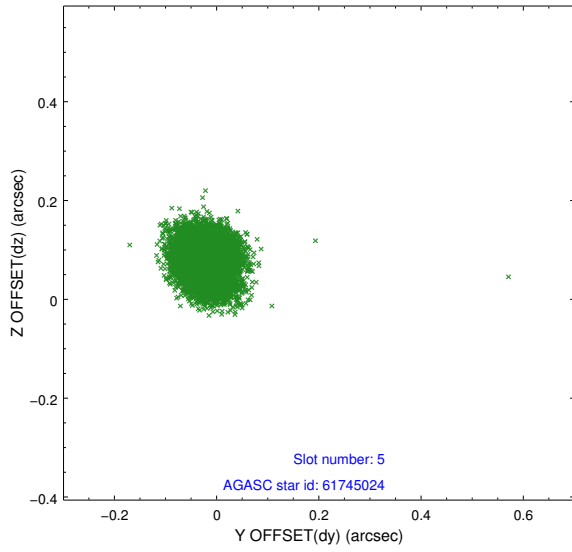
2.4.1 Slot 3



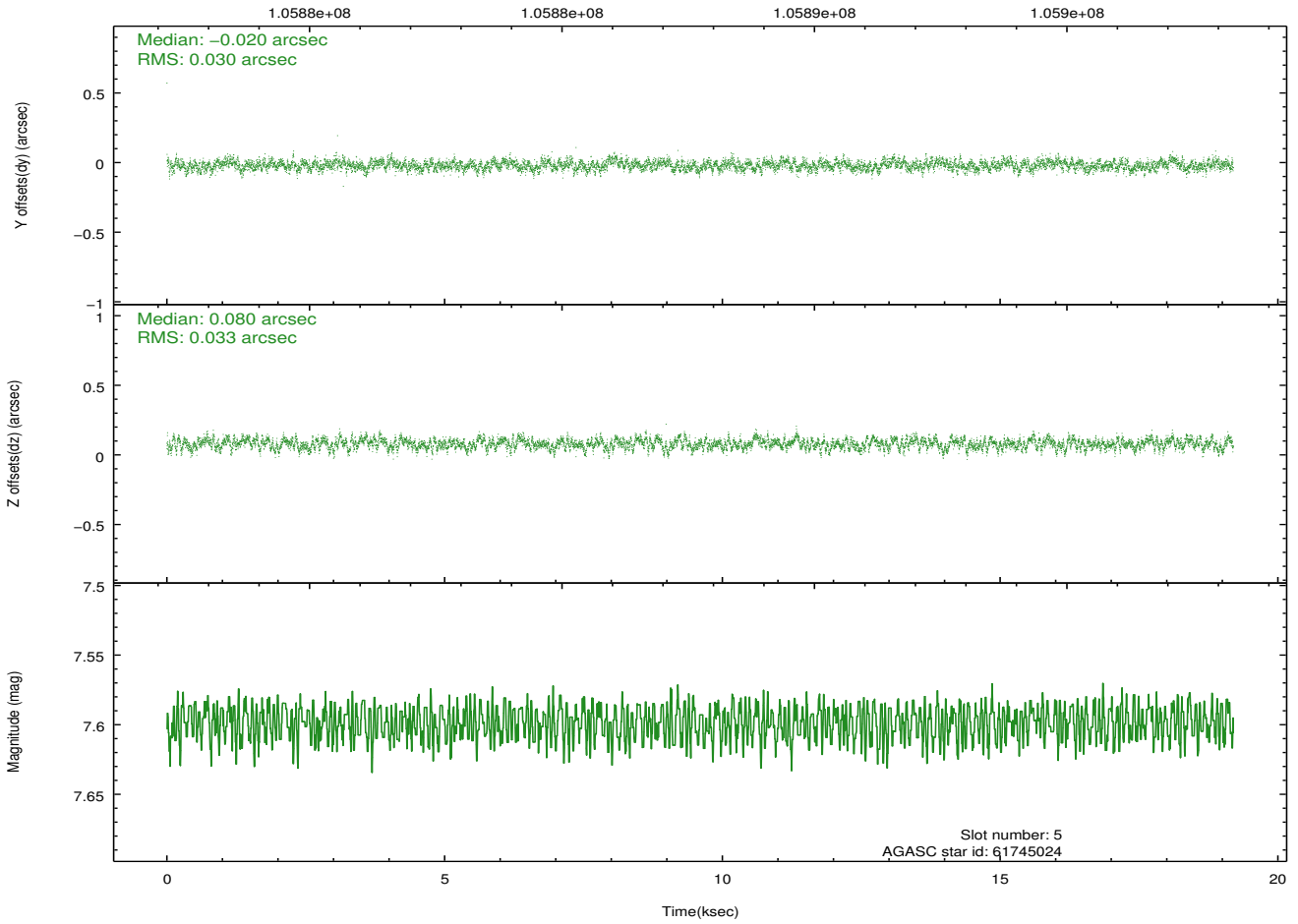
2.4.2 Slot 4



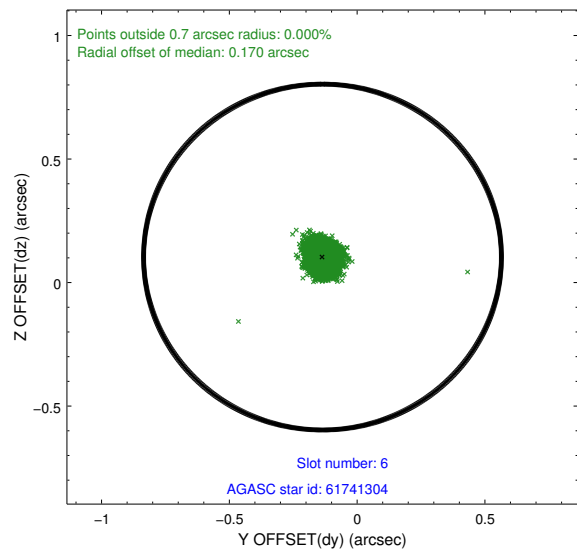
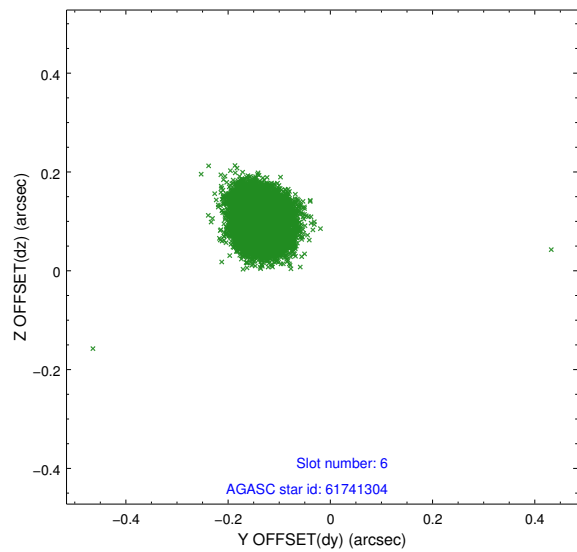
2.4.3 Slot 5



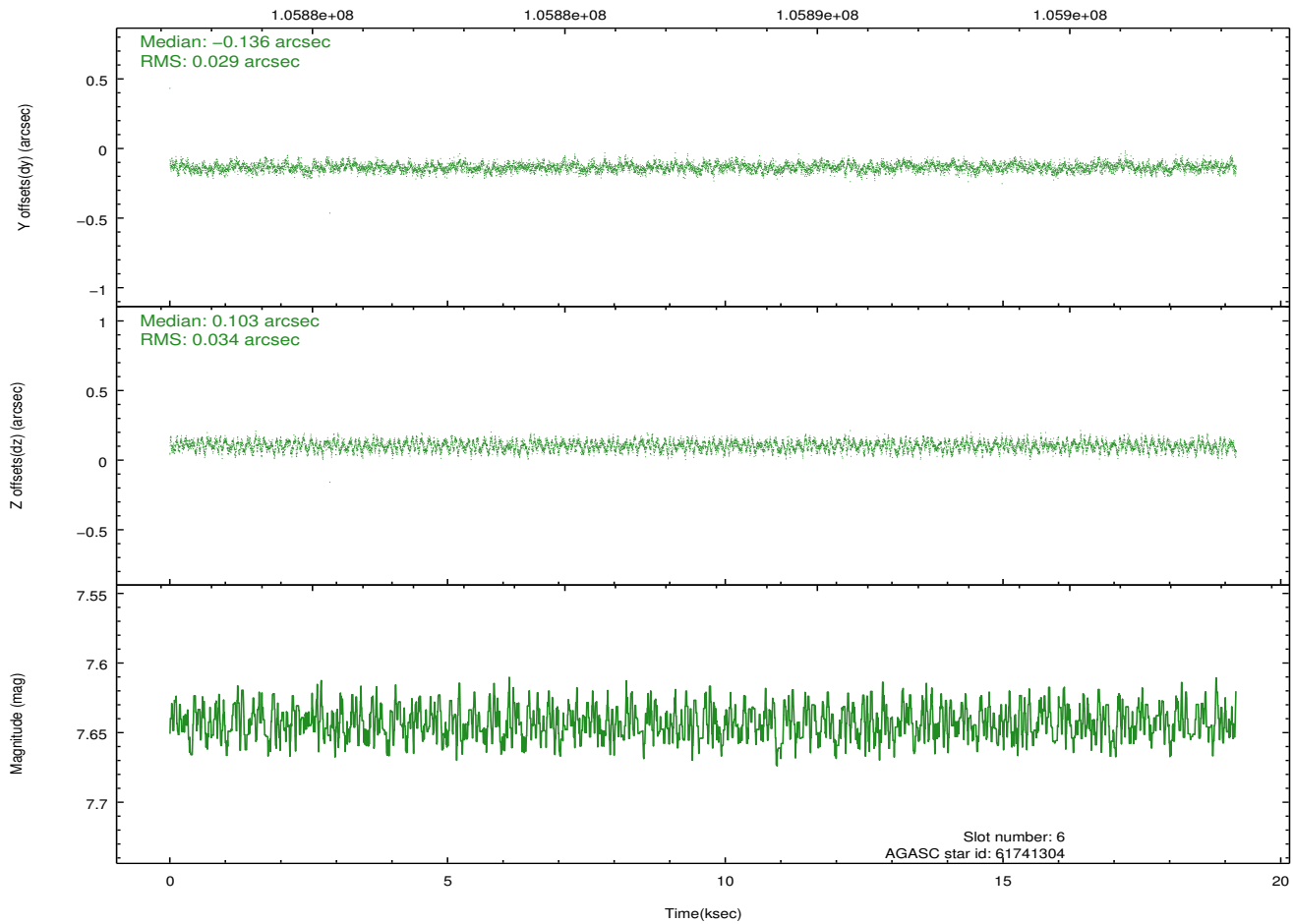
Time (s)



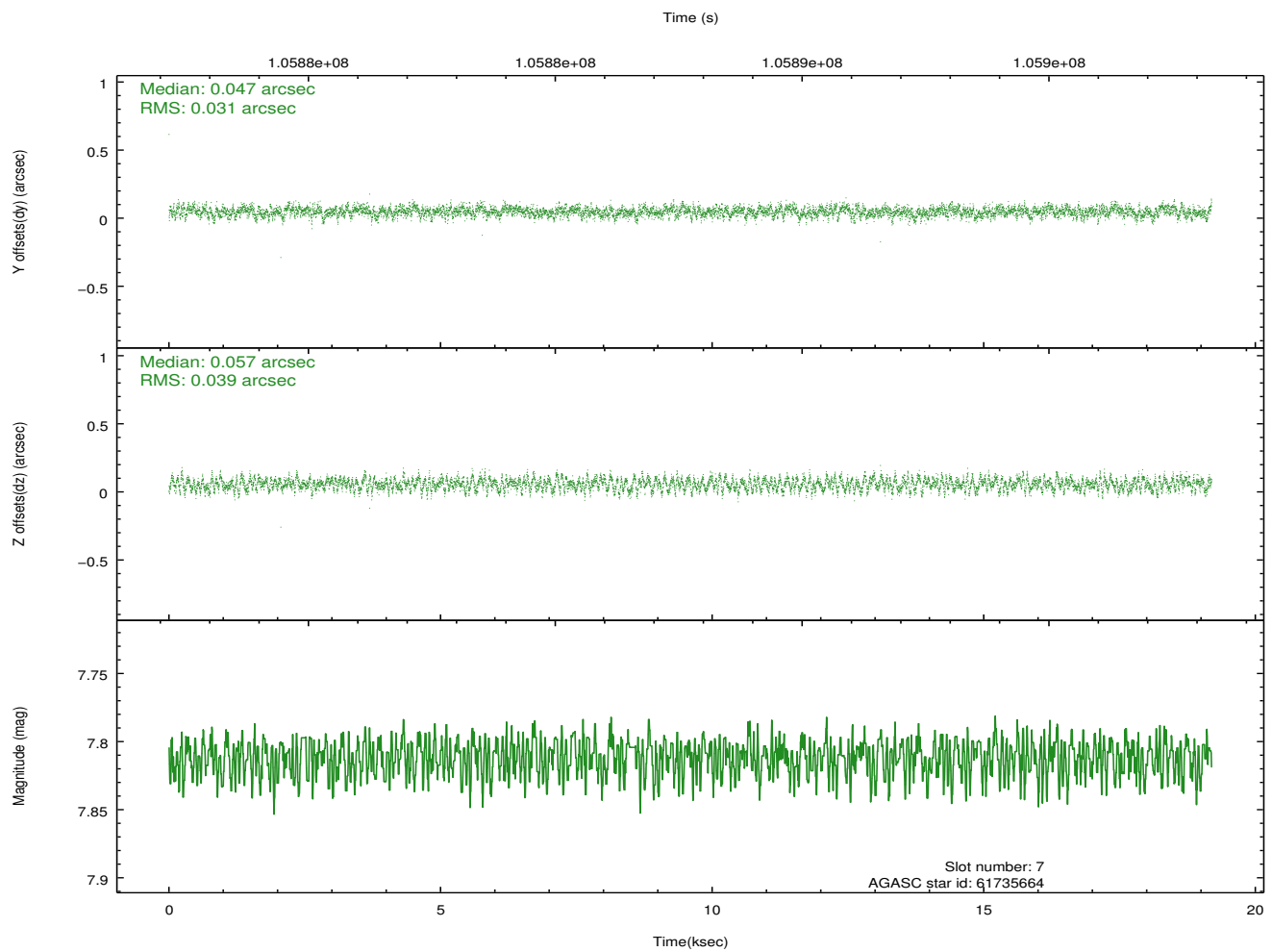
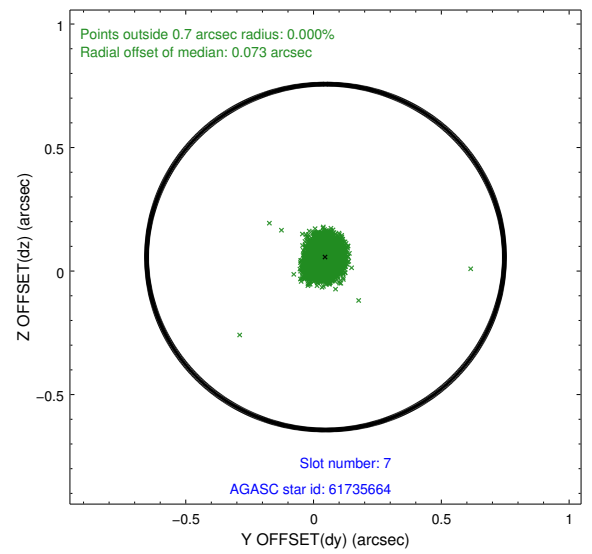
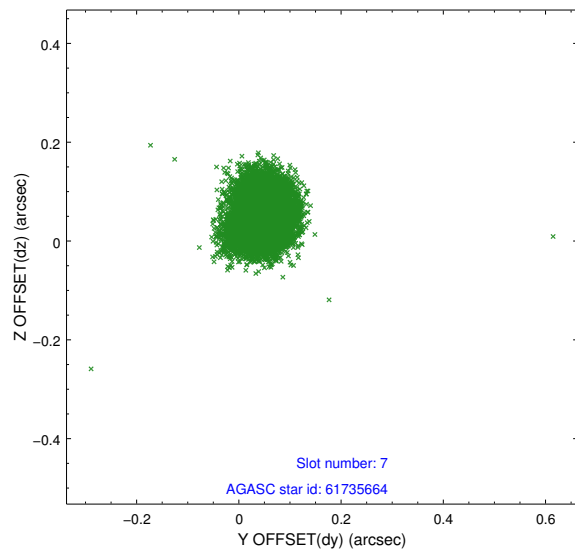
2.4.4 Slot 6



Time (s)

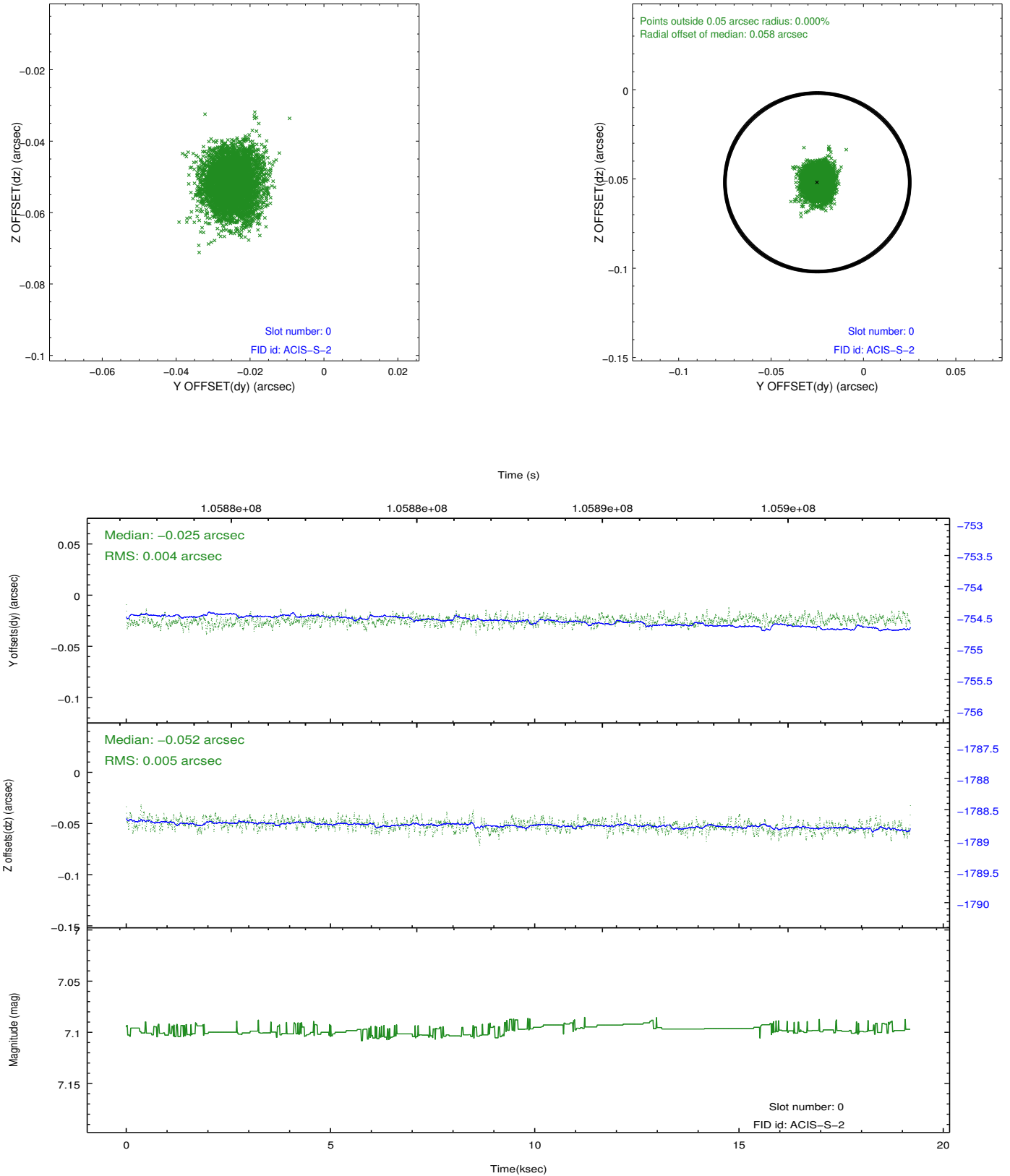


2.4.5 Slot 7

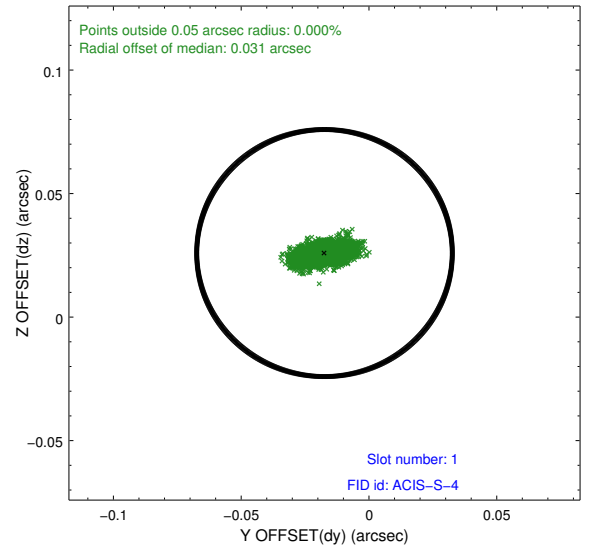
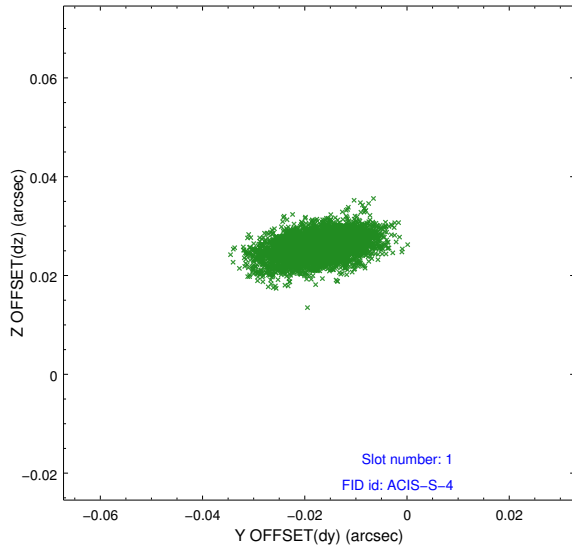


2.5 FID Slots

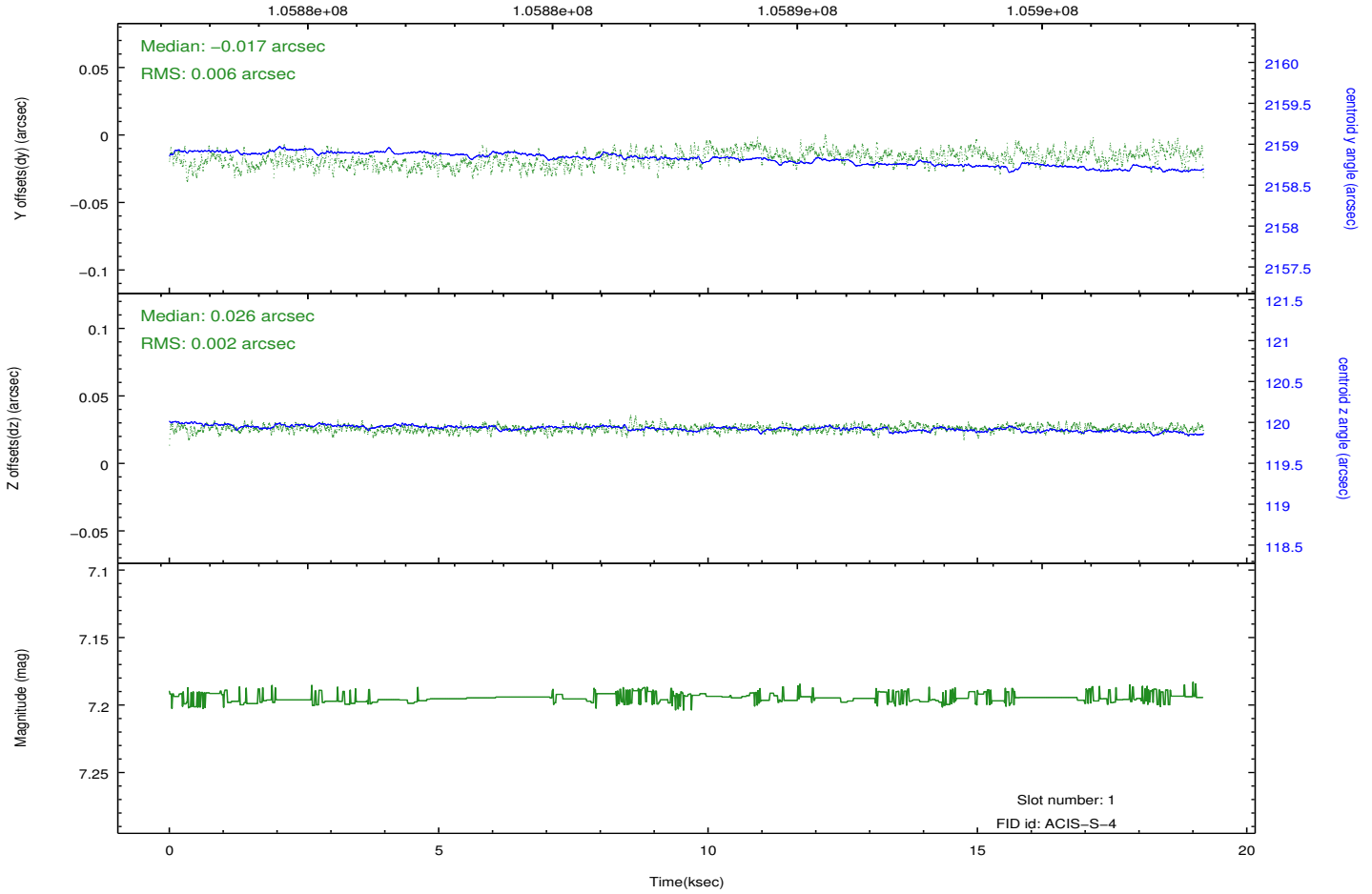
2.5.1 Slot 0



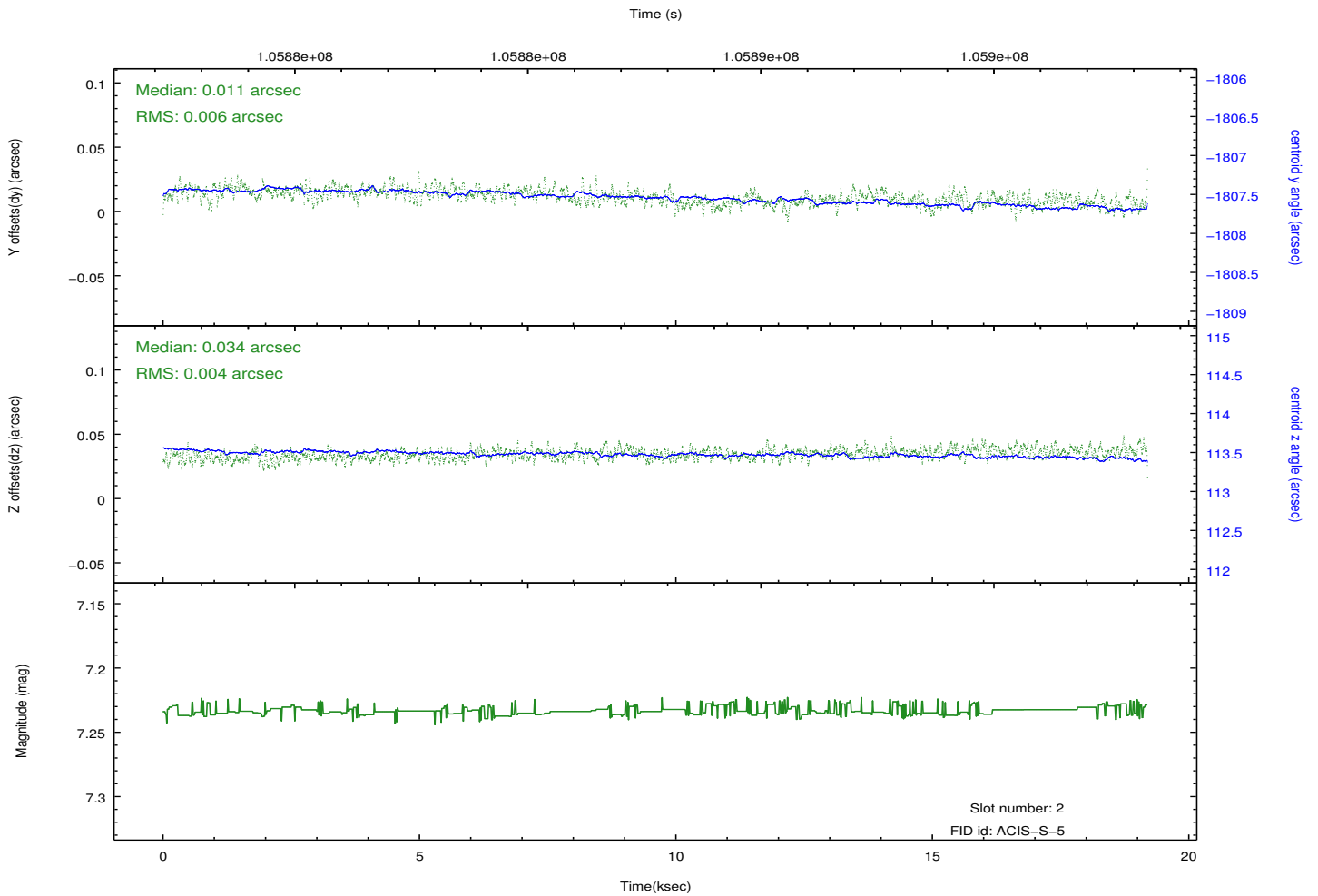
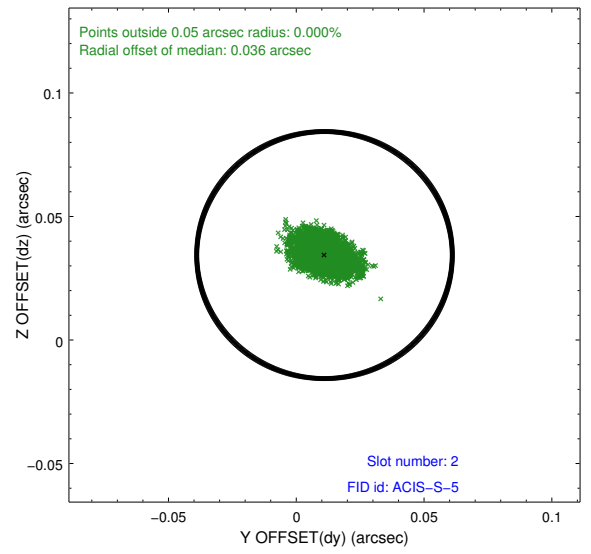
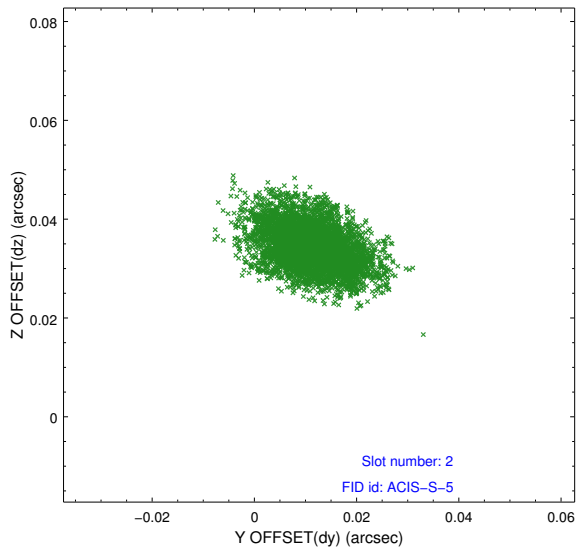
2.5.2 Slot 1



Time (s)

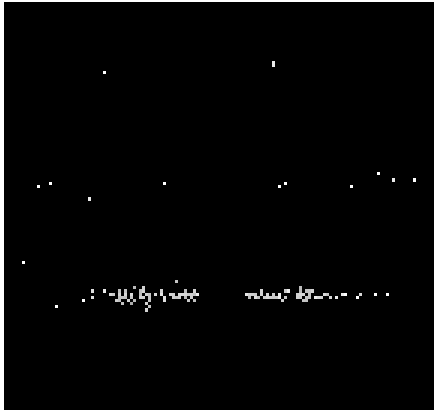


2.5.3 Slot 2

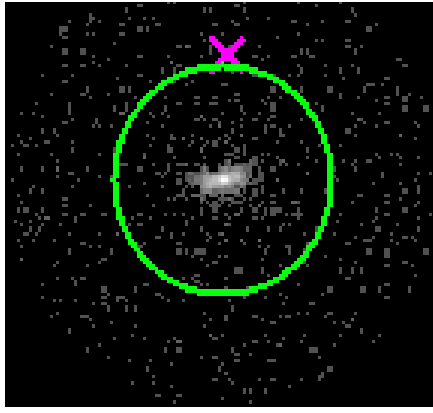


3 Gratings

3.1 HEG Arm



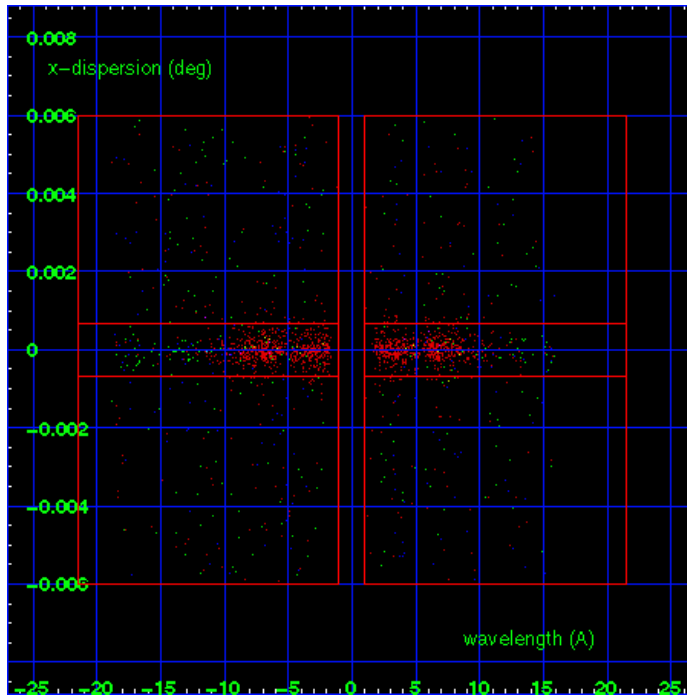
HEG Order Sort 123



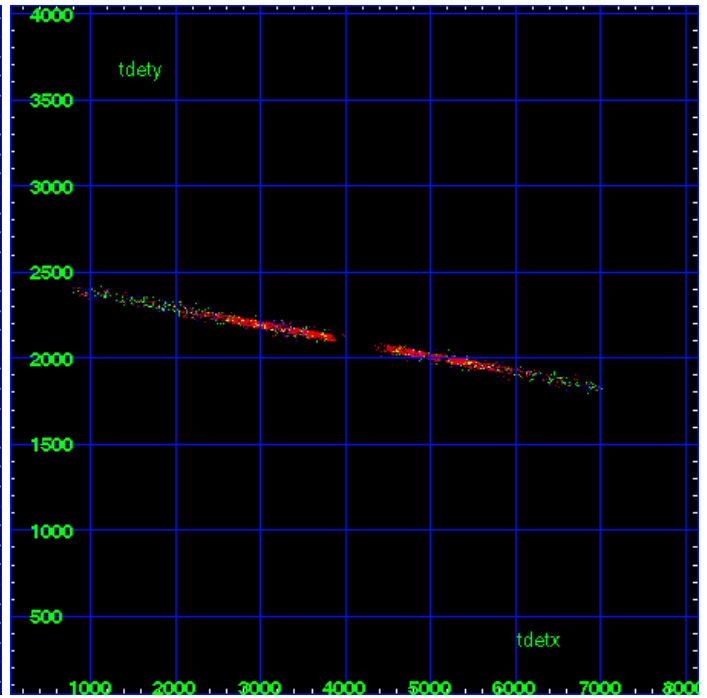
HEG Zero Order



HEG Order Sort ALL

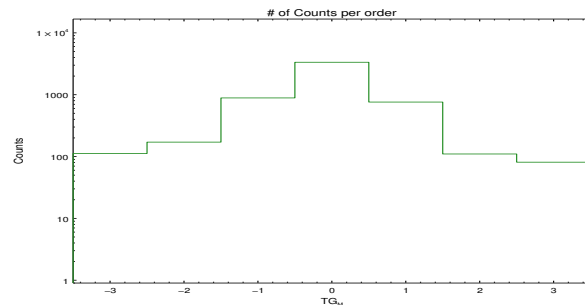


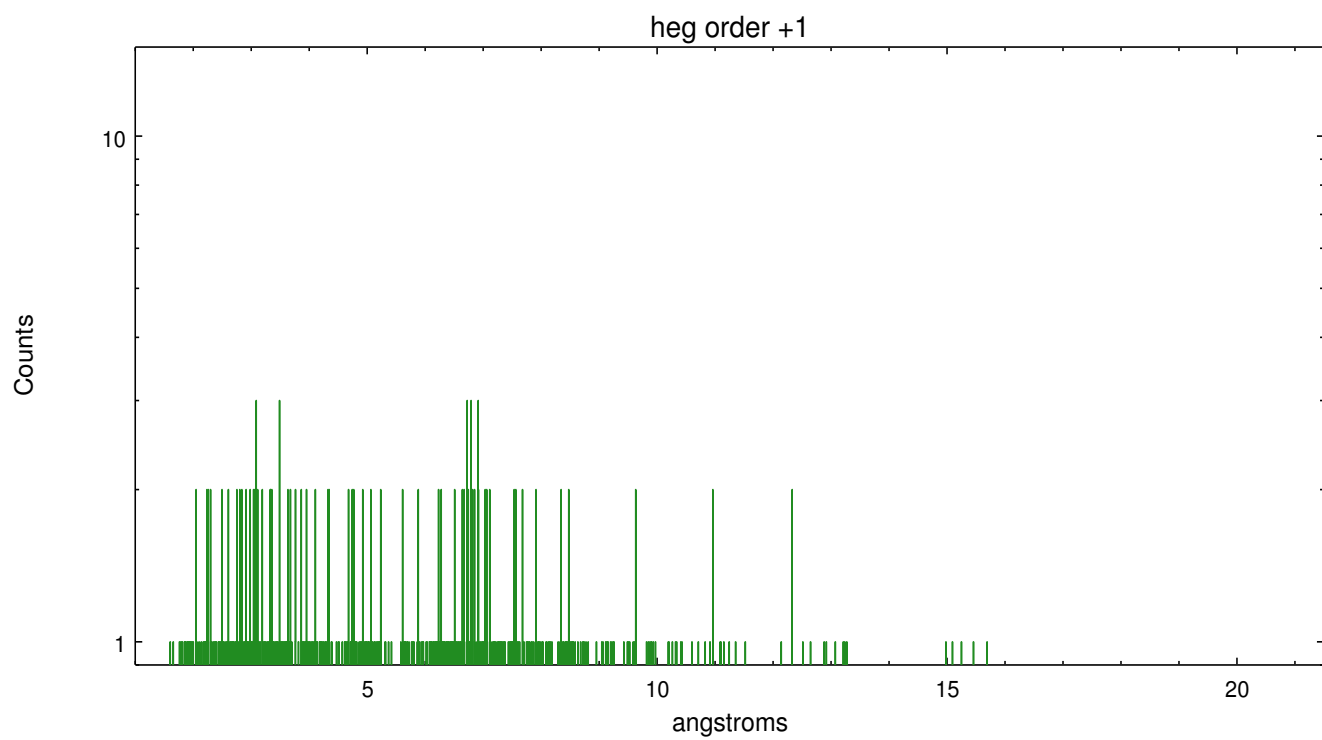
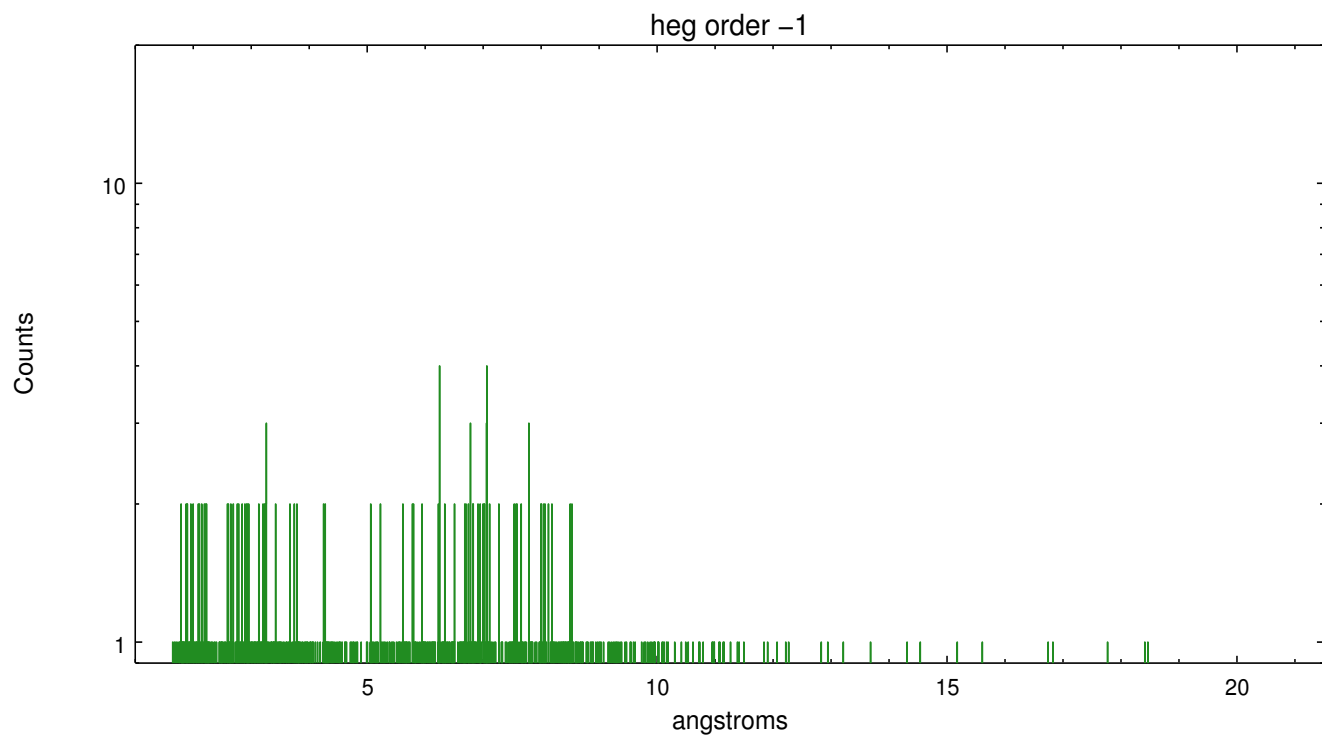
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	112	171	887	3345	760	110	81

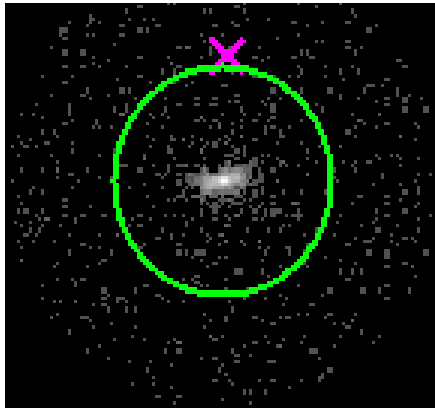




3.2 MEG Arm



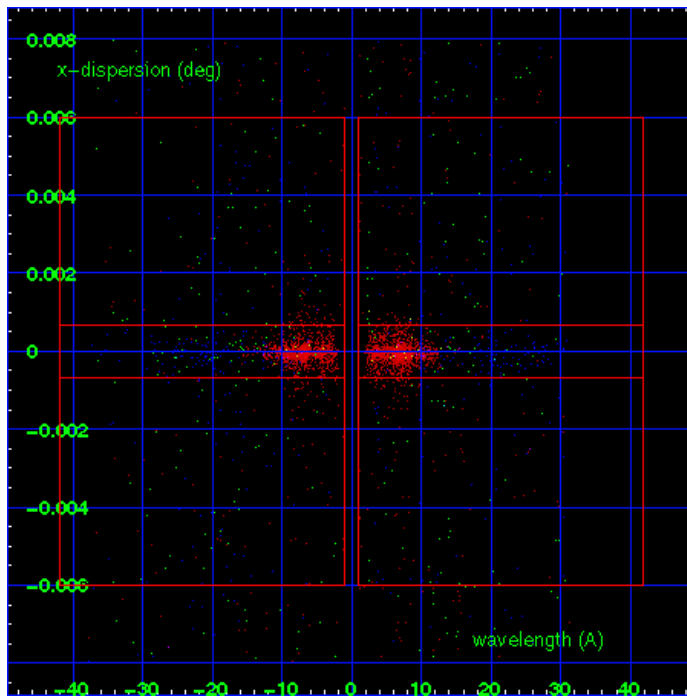
MEG Order Sort 123



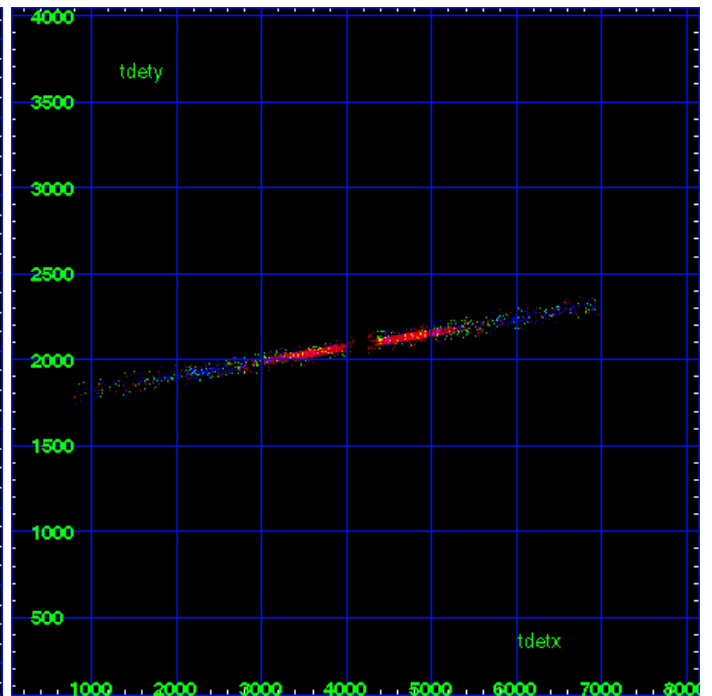
MEG Zero Order



MEG Order Sort ALL

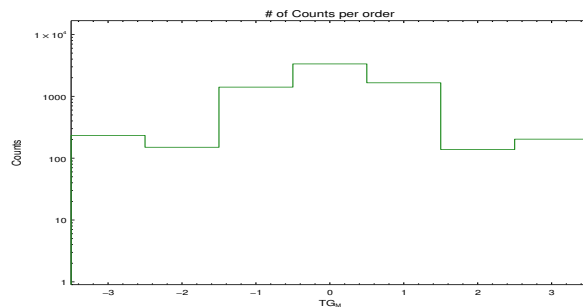


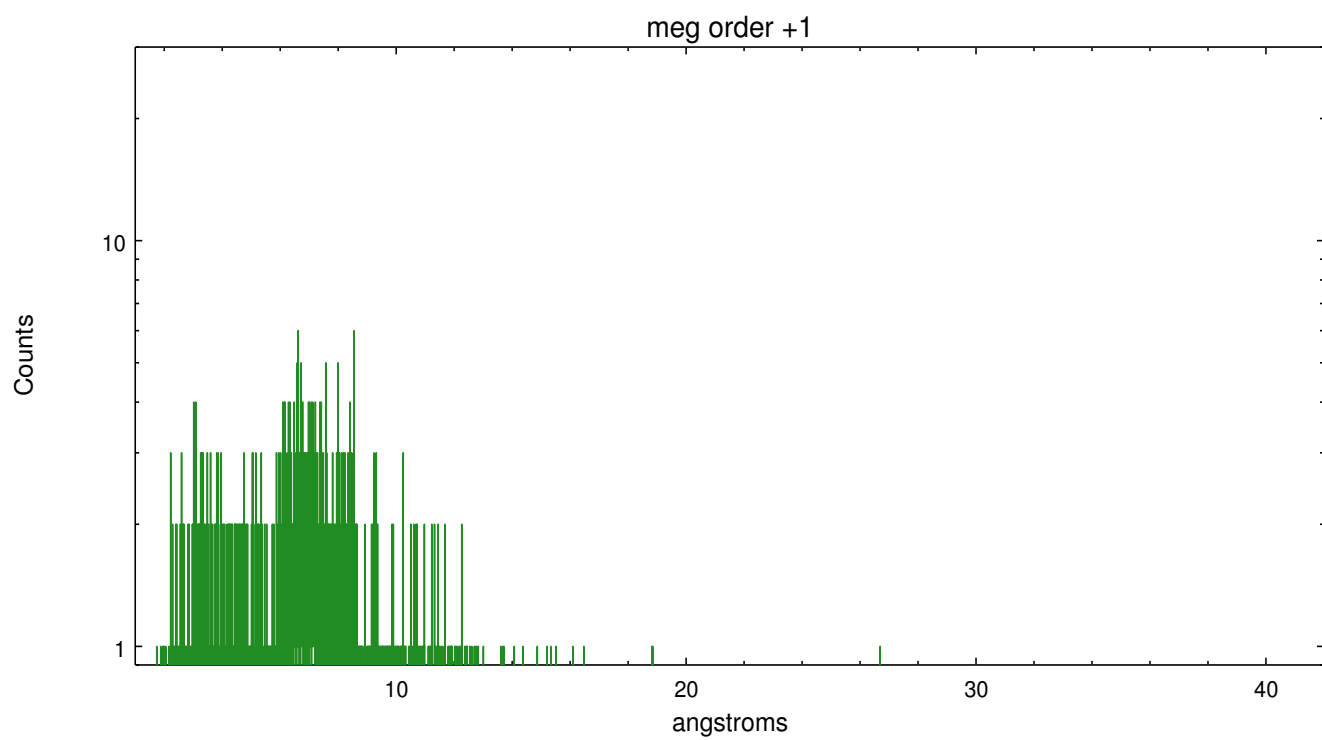
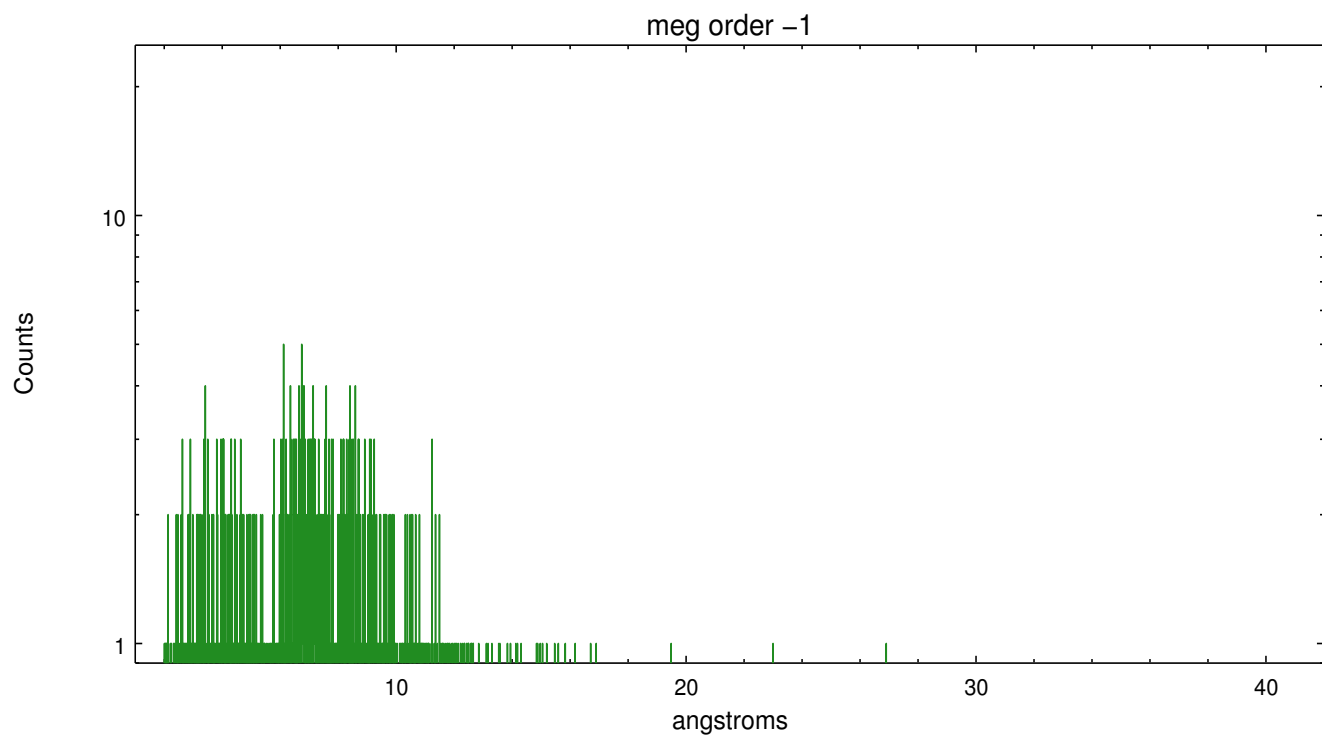
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	233	150	1409	3345	1656	138	203





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.8

A.2 Comments

Charge time for this ObsId remains at previous value of 18.8 ks, although with the current processing the charge time would have been 18.755 ks.

===

Observation acquired during binary phase 0.10-0.15. Source is extended. Zeroth order position is at or very near the centroid of maximum X-ray brightness.