

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 4560 - L2 Version 3
Chandra X-Ray Center

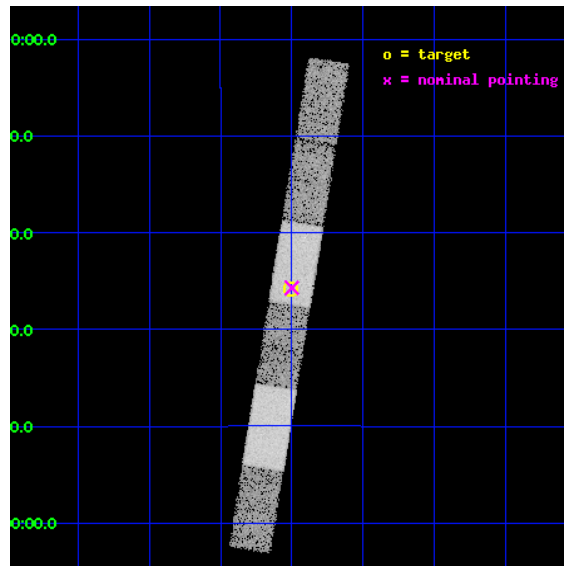
L2 Processing Date : Dec 28 2012

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1 Front

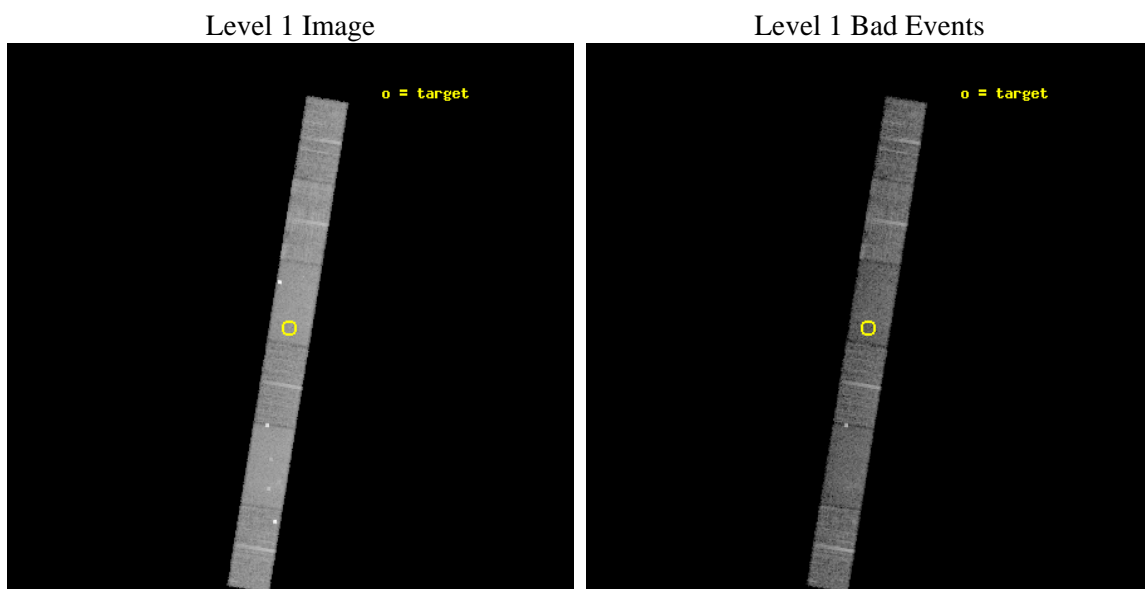
seq_num	400343	Sequence number
obs_id	4560	Observation id
title	Chandra follow-up of very hard transient sources detected with INTEGRAL	Proposal title
observer	Dr. Sergio Campana	Principal investigator
object	IGR J18410-0535	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	280.251792	Observer's specified target RA [deg]
dec_targ	-5.59625	Observer's specified target Dec [deg]
ra_nom	280.24989424242	Nominal RA [deg]
dec_nom	-5.5950743884908	Nominal Dec [deg]
roll_nom	279.29549698066	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10169.399928689	Sum of GTIs [s]
livetime	9929.6856354658	Livetime [s]
ontime4	10169.399928689	Sum of GTIs [s]
ontime5	10169.399928689	Sum of GTIs [s]
ontime6	10169.399928689	Sum of GTIs [s]
ontime7	10169.399928689	Sum of GTIs [s]
ontime8	10169.399928689	Sum of GTIs [s]
ontime9	10169.399928689	Sum of GTIs [s]
l2events	68113	Number of level 2 events



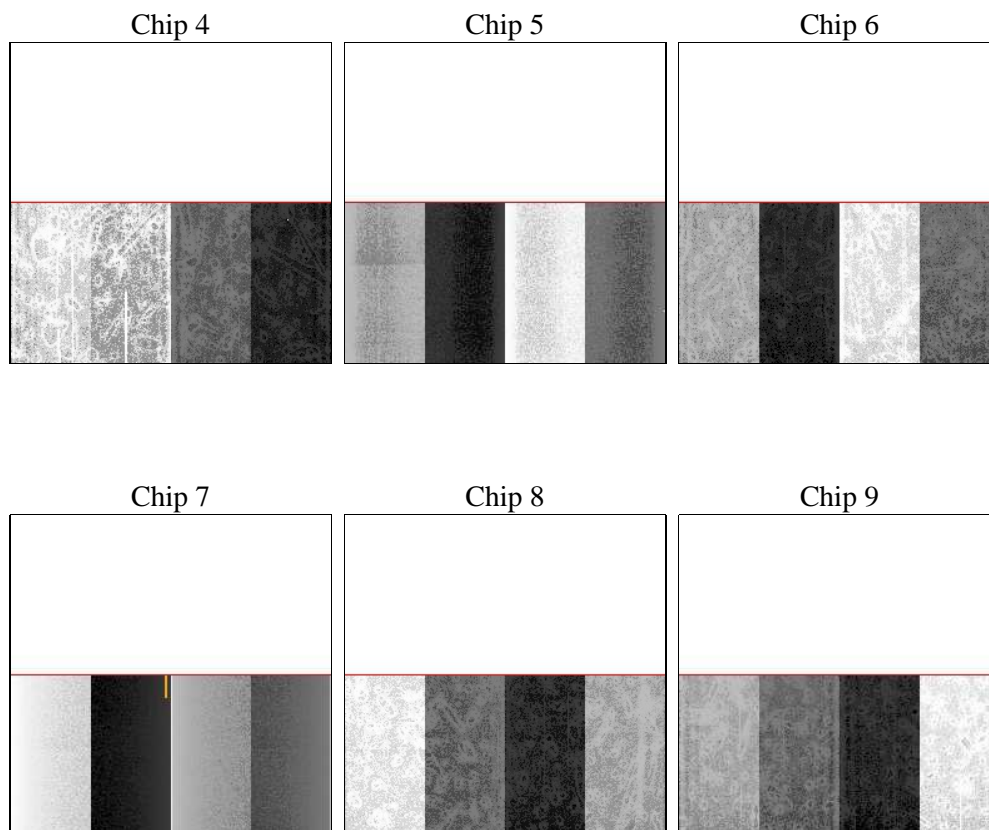
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	10169.399928689	Sum of GTIs [s]
caldsver	4.5.4	 	ontime4	10169.399928689	Sum of GTIs [s]
date	2012-12-10T09:43:36	Date and time of file creation	ontime5	10169.399928689	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	10169.399928689	Sum of GTIs [s]
			ontime7	10169.399928689	Sum of GTIs [s]
			ontime8	10169.399928689	Sum of GTIs [s]
			ontime9	10169.399928689	Sum of GTIs [s]
			l1events	320584	Number of level 1 events

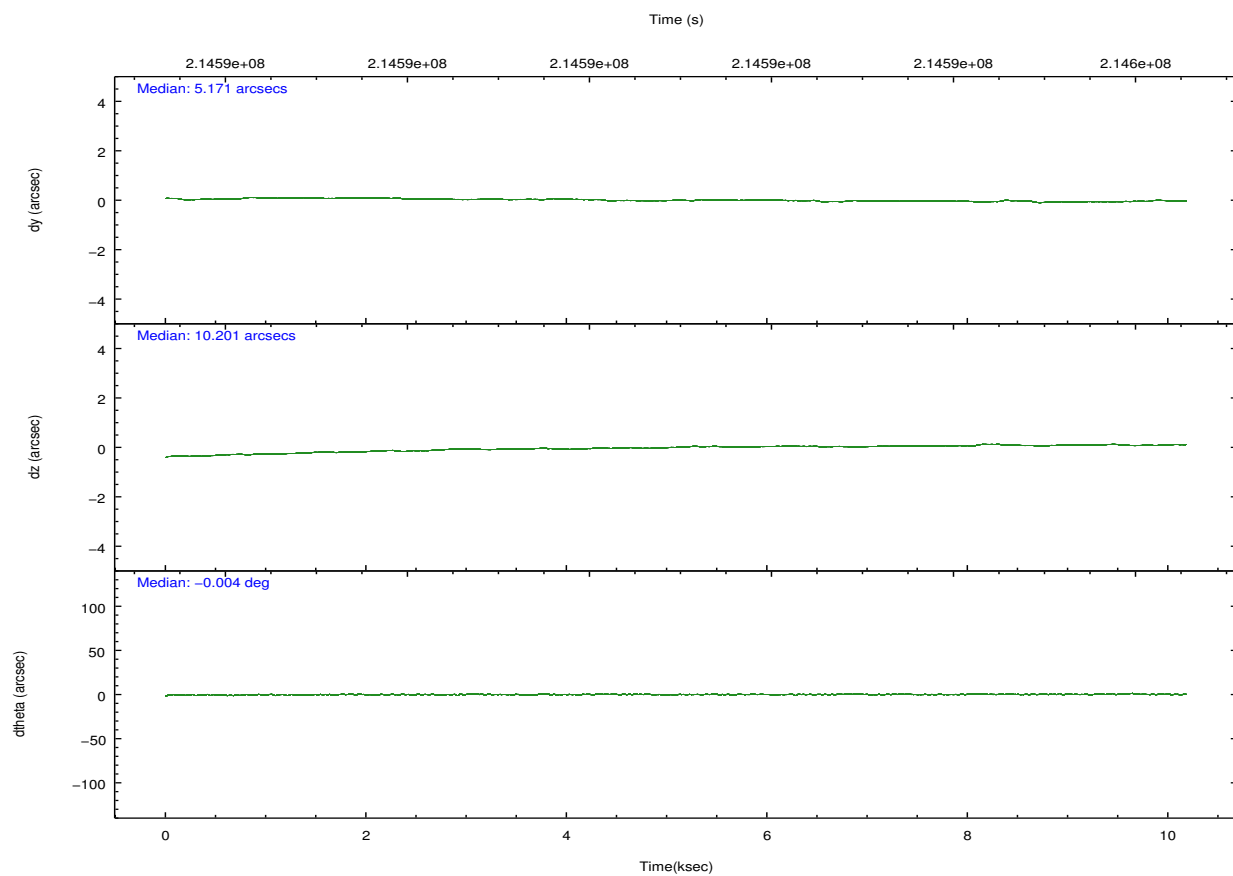
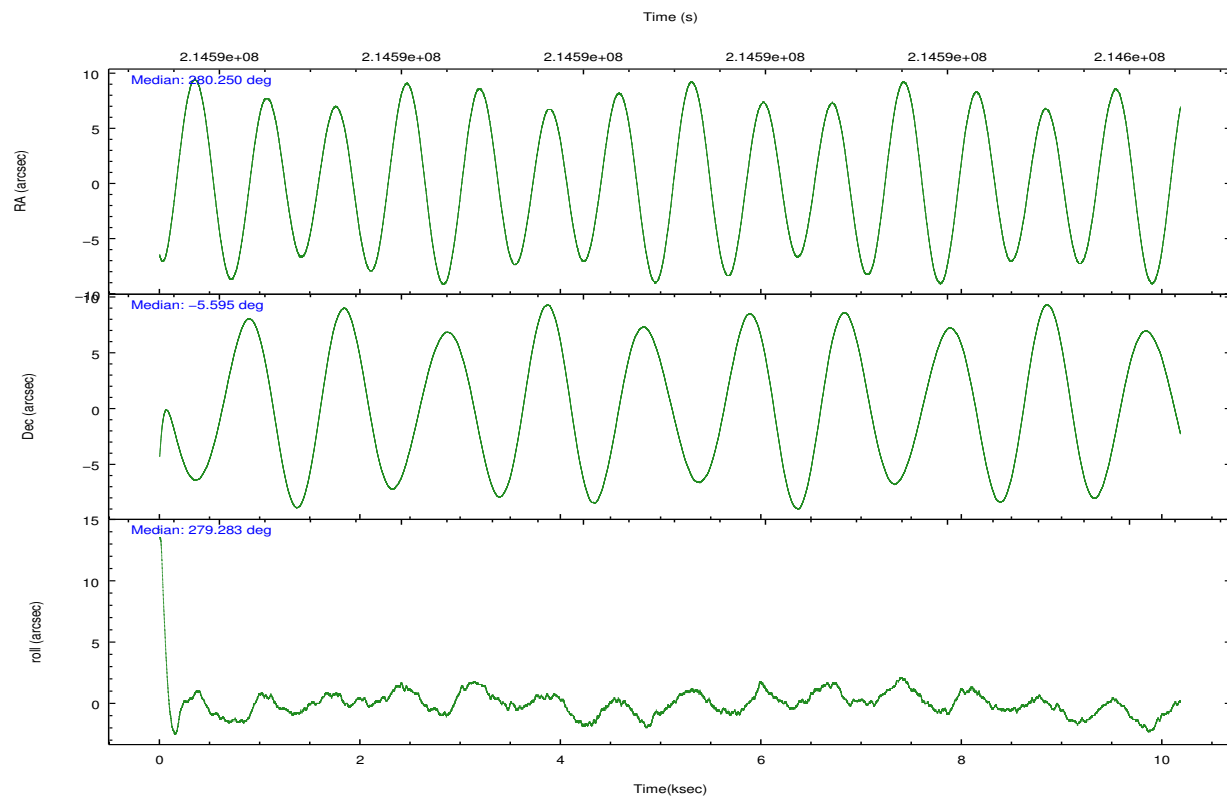
2.1.4 Events

	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	53489	64015	43120	60600	56678	42682	grade 0 events	7908	3350	2098	7897	3572	2114
rejected events	42169	33773	37814	31315	44491	37382		14%	5%	4%	13%	6%	4%
rejected %	78%	52%	87%	51%	78%	87%	grade 1 events	41	393	18	60	20	22
								0%	0%	0%	0%	0%	0%
							grade 2 events	1259	8443	1019	4659	2578	997
								2%	13%	2%	7%	4%	2%
							grade 3 events	599	1737	620	2291	1410	630
								1%	2%	1%	3%	2%	1%
							grade 4 events	646	1667	591	2235	1333	593
								1%	2%	1%	3%	2%	1%
							grade 5 events	1687	5427	1769	5189	2392	1949
								3%	8%	4%	8%	4%	4%
							grade 6 events	912	15059	984	12215	3297	967
								1%	23%	2%	20%	5%	2%
							grade 7 events	40437	27939	36021	26054	42076	35410
								75%	43%	83%	42%	74%	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	280.232289	280.2498942424194	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-5.574228	-5.595074388490806	Subarray start row	1	1
[deg] Pointing Roll	279.137143	279.2954969806649	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			
[s] Observation start time (MET)	214586042.184000	214585053.35221			
Observation start date	2004-10-19T15:12:58	2004-10-19T14:57:33			
[s] Observation end time (MET)	214596042.184000	214597422.54026			
Observation end date	2004-10-19T17:59:38	2004-10-19T18:23:42			
Read mode	TIMED	TIMED			

2.3 Aspect

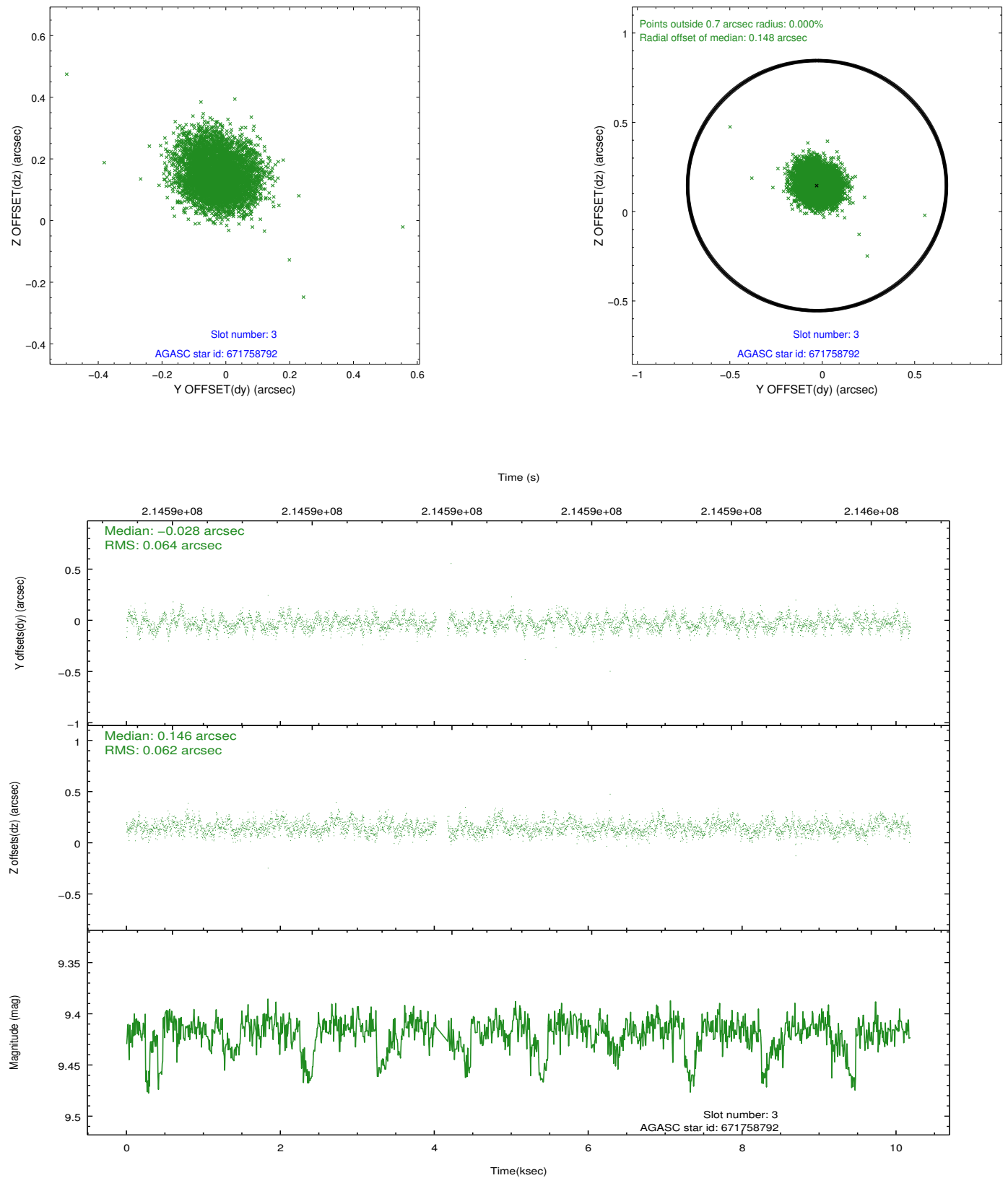


Slot Statistics

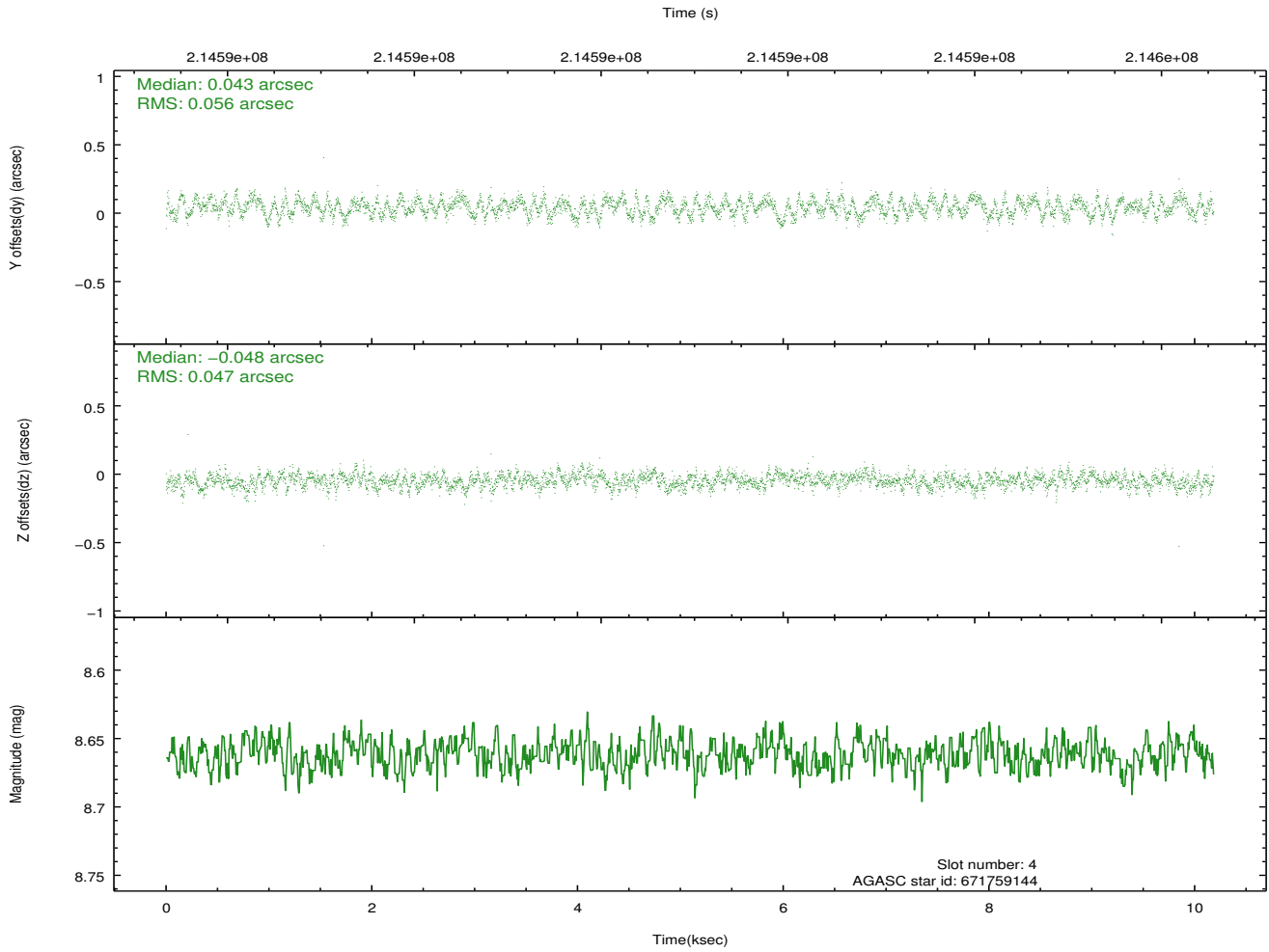
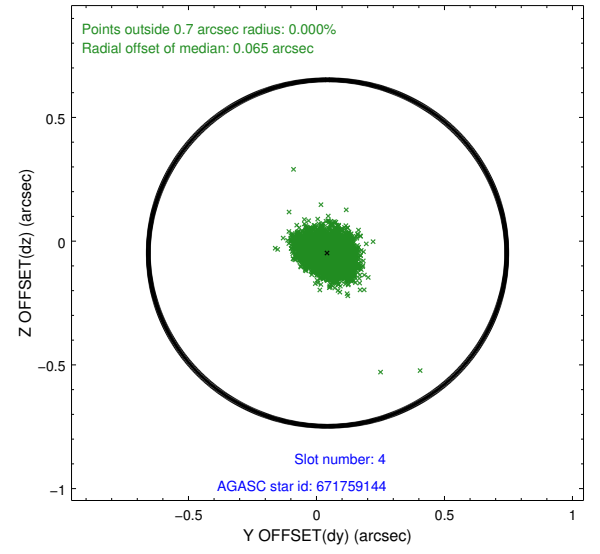
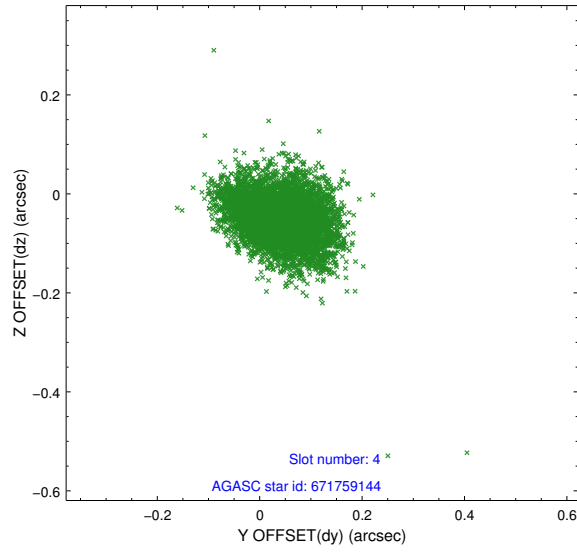
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	2484	-0.072	-0.137	0.009	0.015	0.000000	0.000000	-757.53	-1858.19
1	FID	ACIS-S-4	7.18	2484	0.148	0.072	0.008	0.014	0.000000	0.000000	2155.75	49.88
2	FID	ACIS-S-5	7.22	2485	-0.107	0.074	0.008	0.014	0.000000	0.000000	-1809.73	44.17
3	GUIDE	671758792	9.42	4895	-0.028	0.146	0.094	0.148	280.738640	-5.820907	1165.48	1649.81
4	GUIDE	671759144	8.66	4968	0.043	-0.048	0.078	0.122	279.658906	-5.990264	1154.90	-2264.26
5	GUIDE	671762280	8.86	4969	0.049	-0.023	0.060	0.099	280.028746	-5.773981	595.50	-833.99
6	GUIDE	671227296	8.43	4969	0.033	0.066	0.083	0.126	280.875917	-5.465795	-17.94	2339.04
7	GUIDE	671760936	9.35	4964	-0.100	-0.140	0.091	0.146	279.764572	-5.712435	226.55	-1732.74

2.4 Star Slots

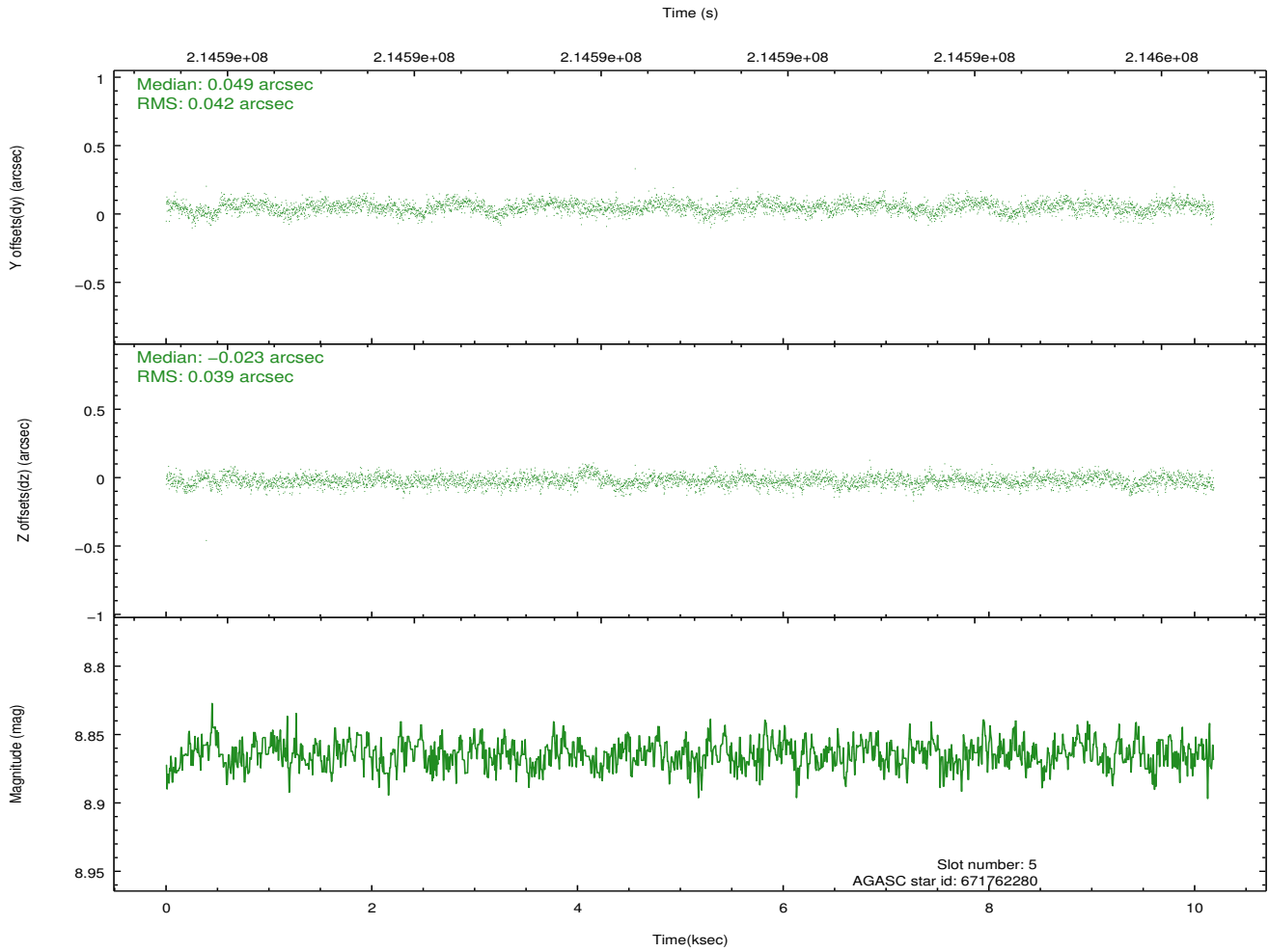
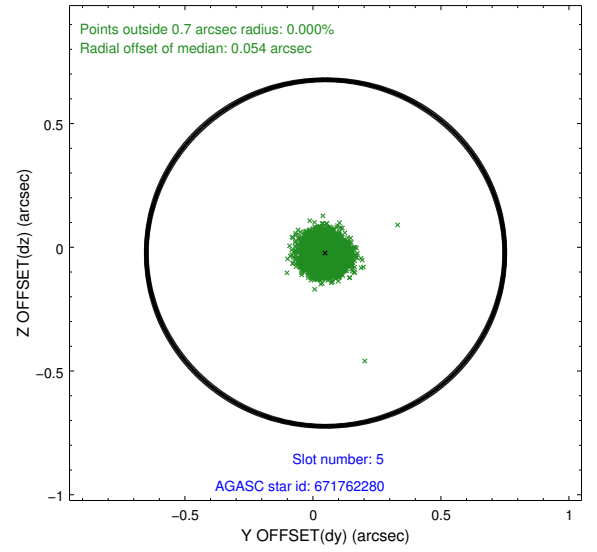
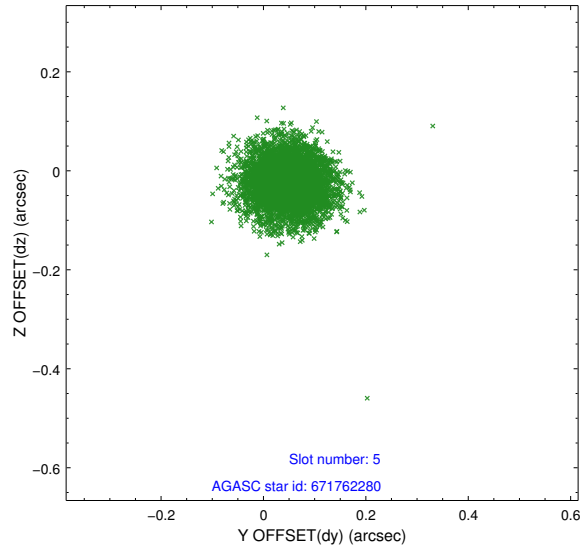
2.4.1 Slot 3



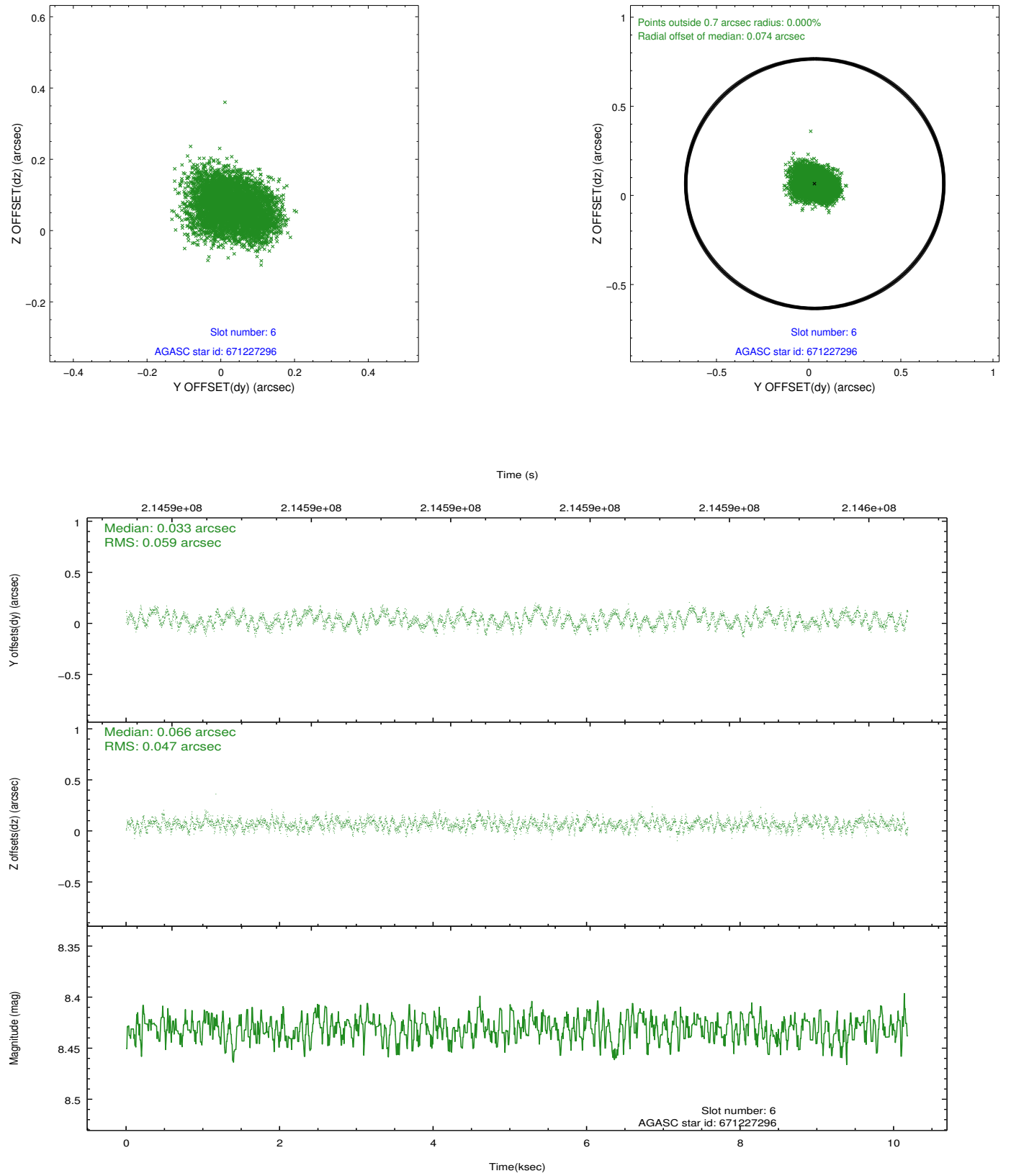
2.4.2 Slot 4



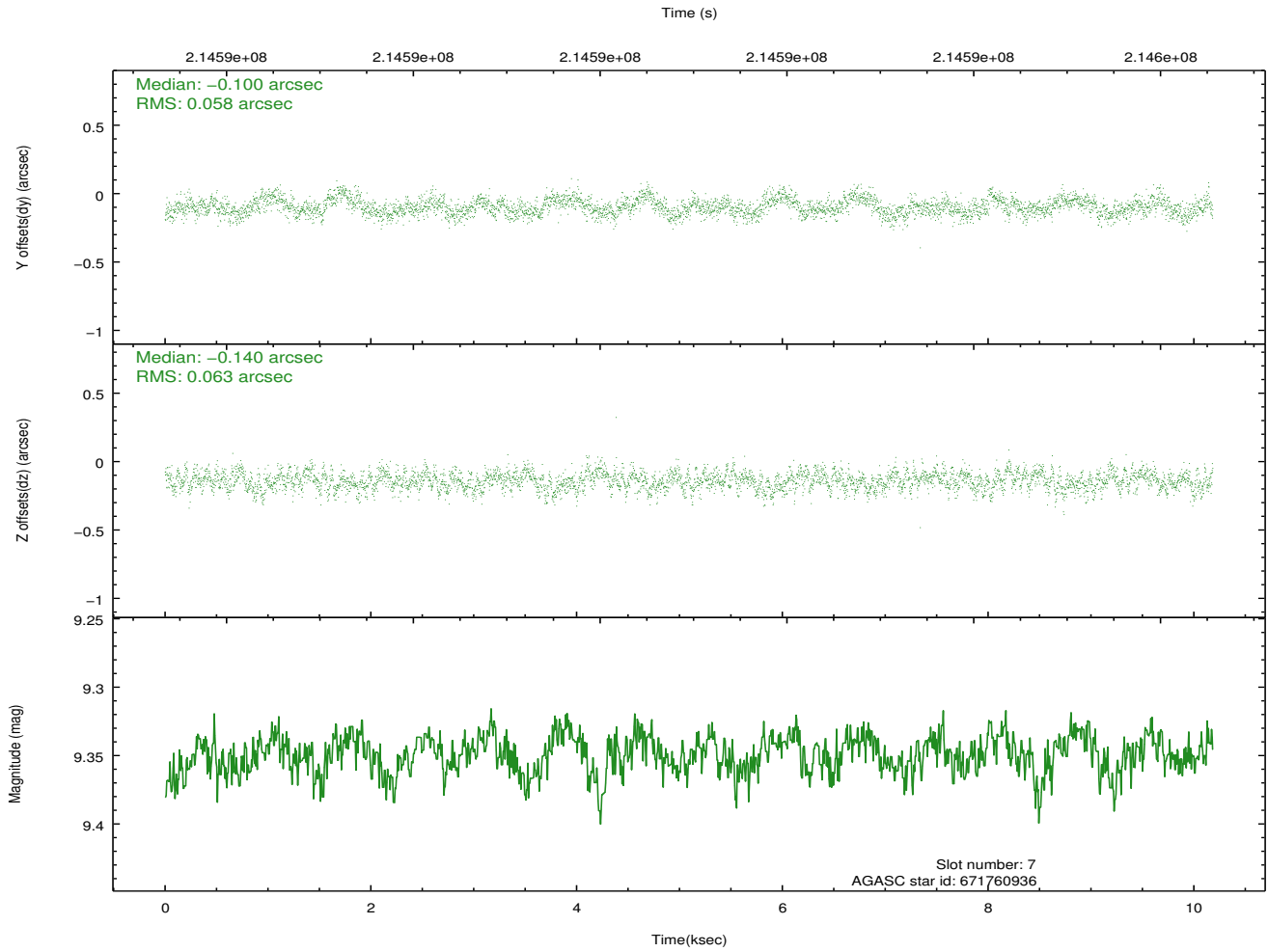
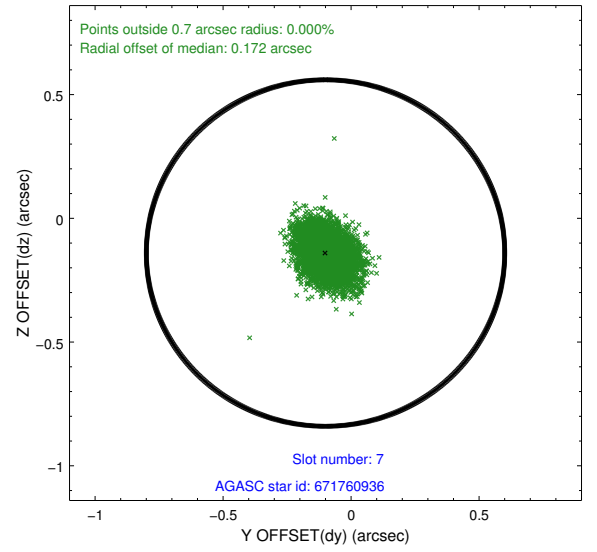
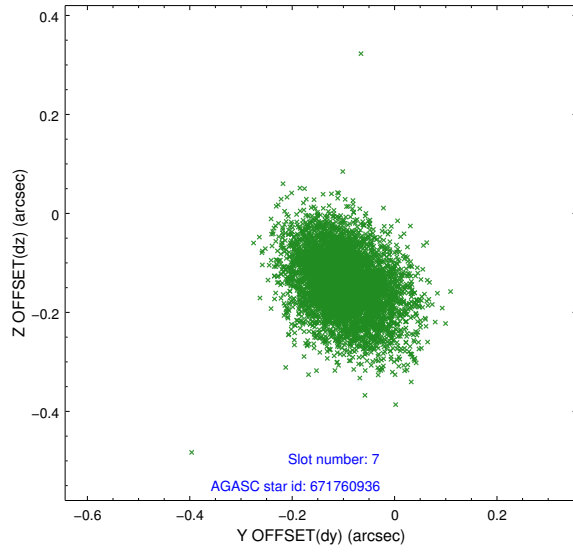
2.4.3 Slot 5



2.4.4 Slot 6

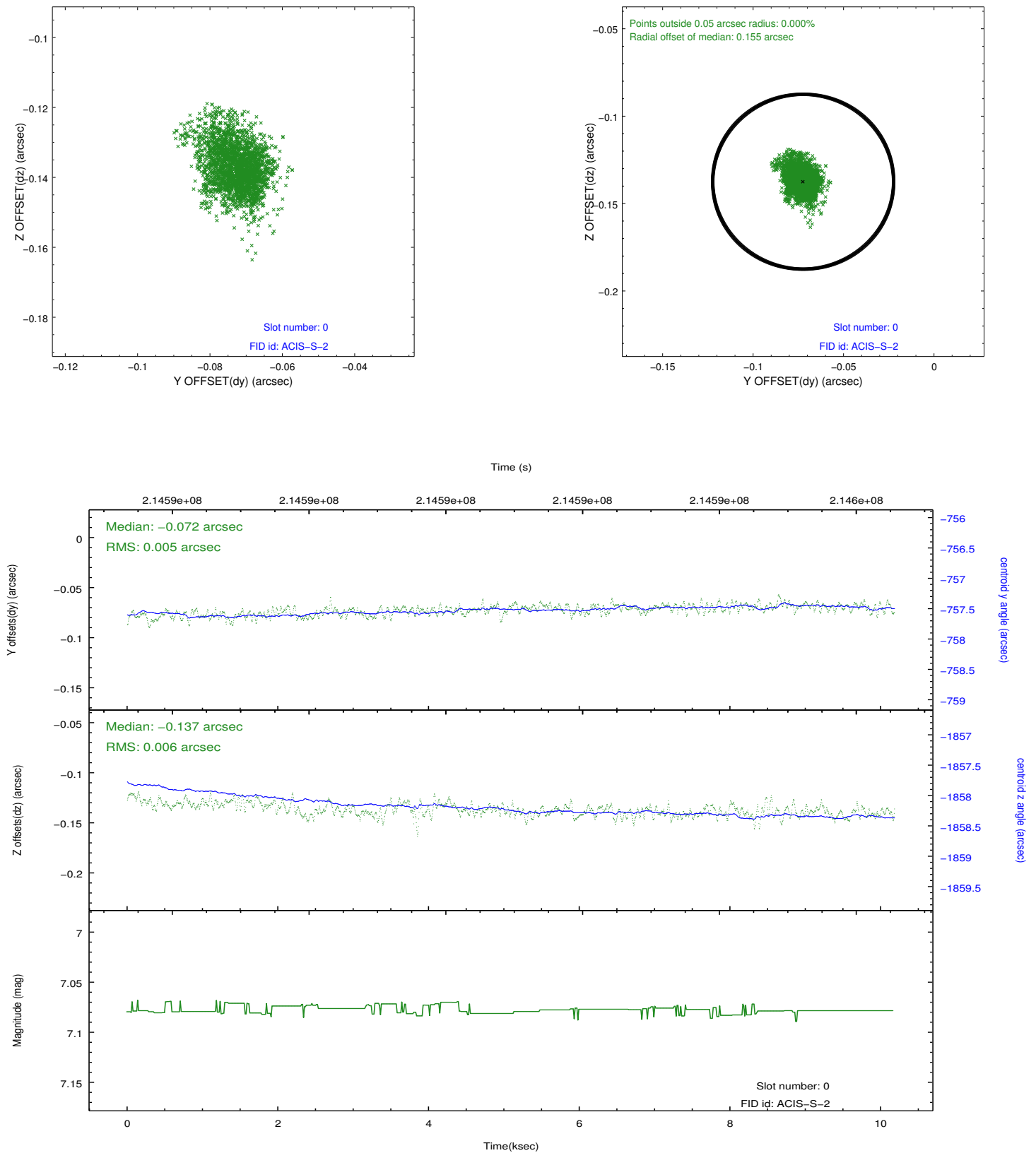


2.4.5 Slot 7

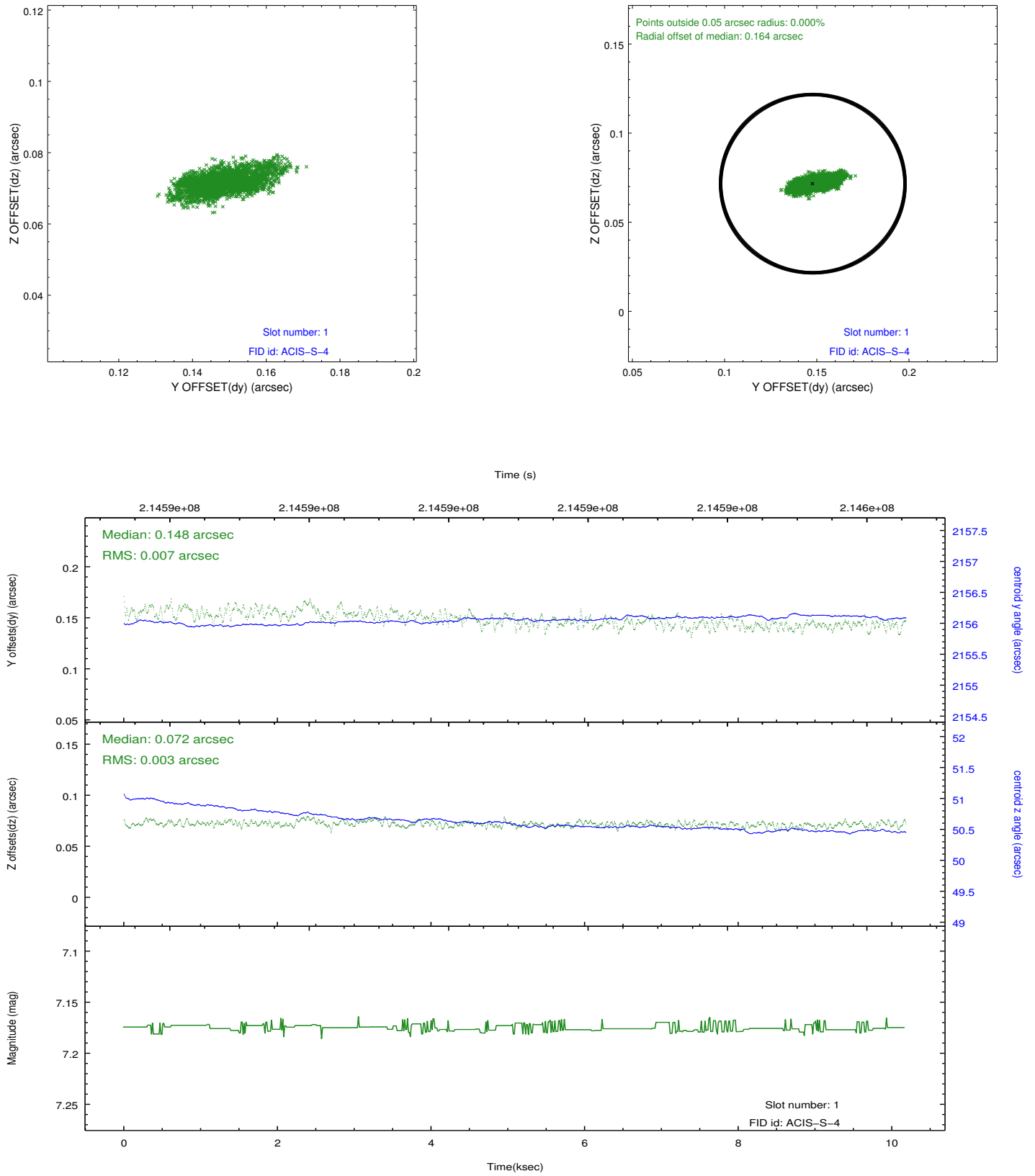


2.5 FID Slots

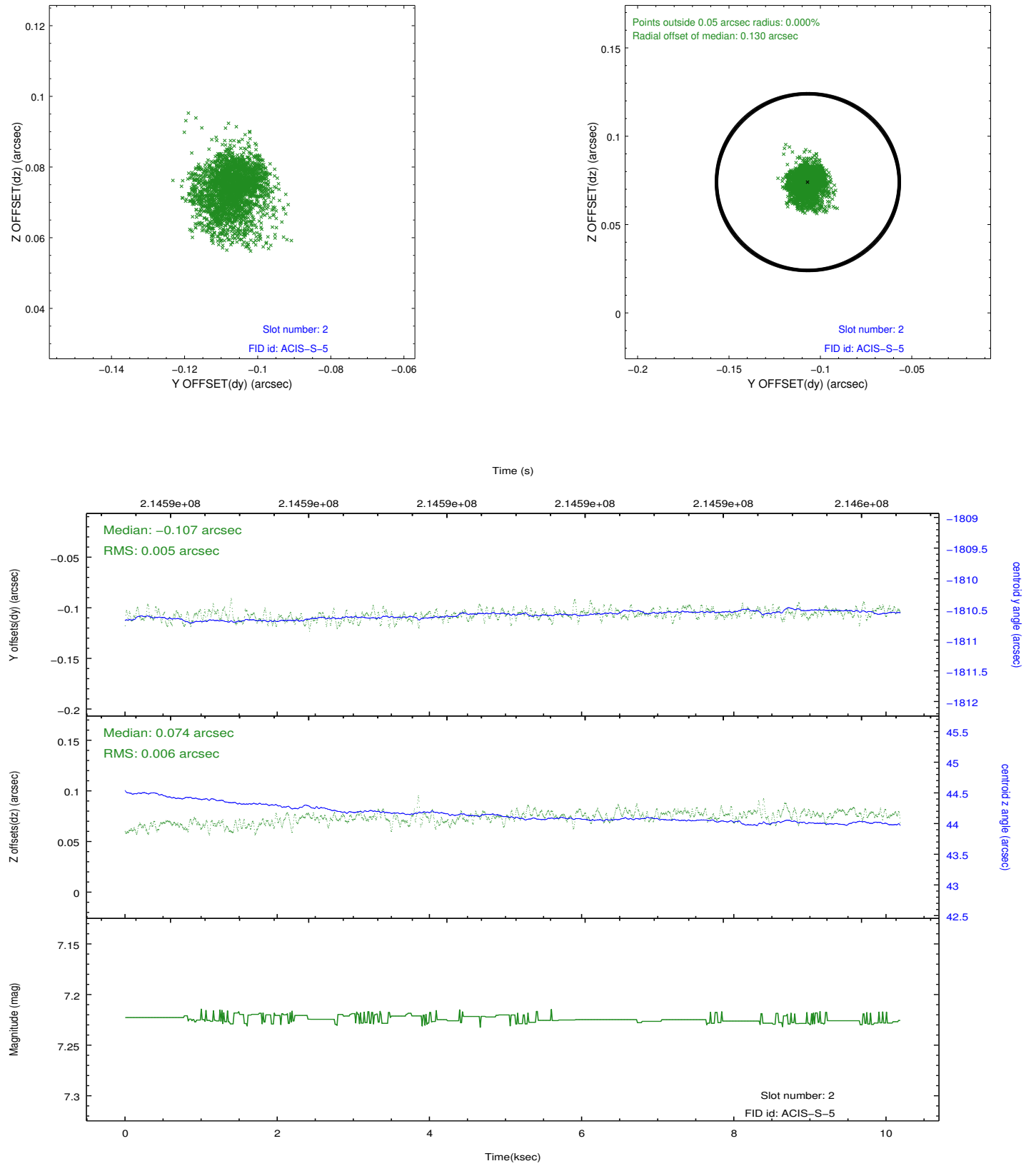
2.5.1 Slot 0



2.5.2 Slot 1

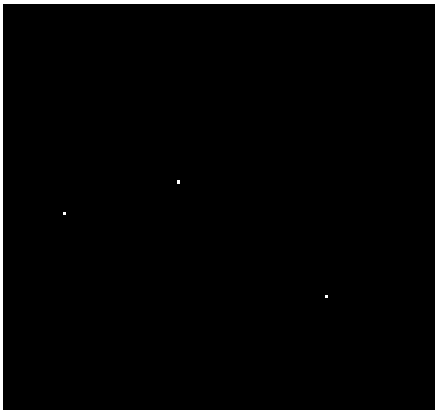


2.5.3 Slot 2

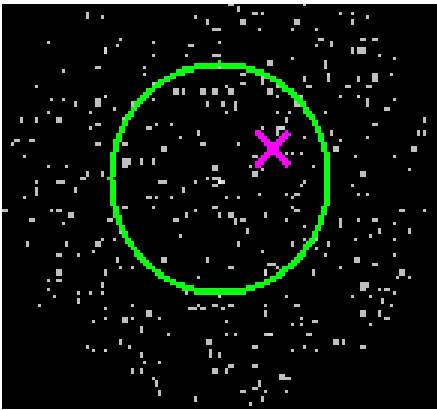


3 Gratings

3.1 HEG Arm



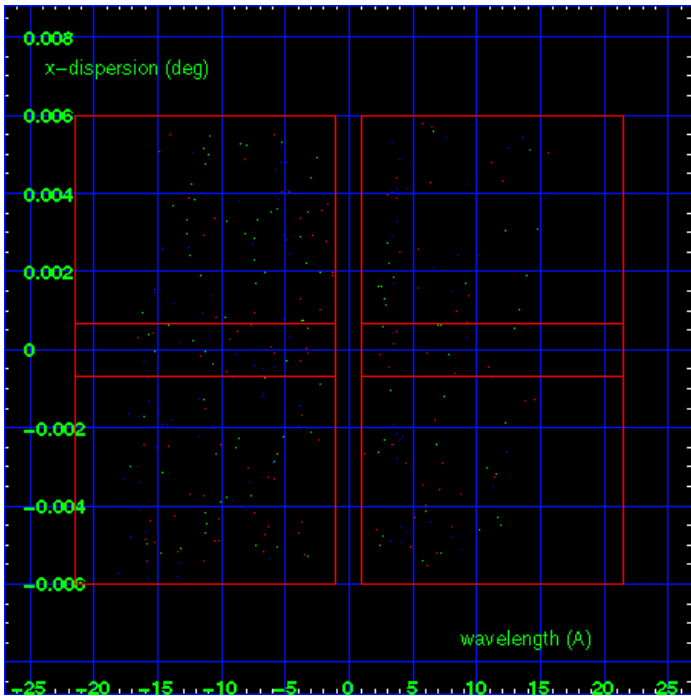
HEG Order Sort 123



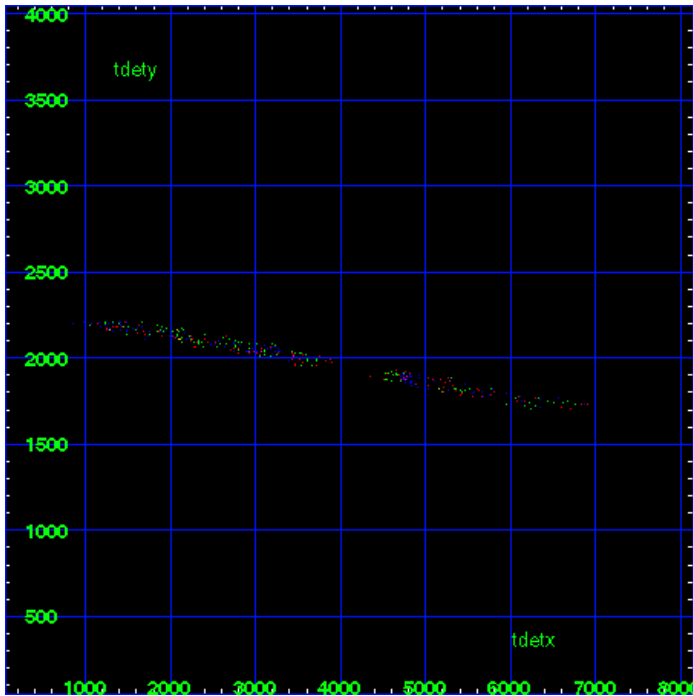
HEG Zero Order



HEG Order Sort ALL

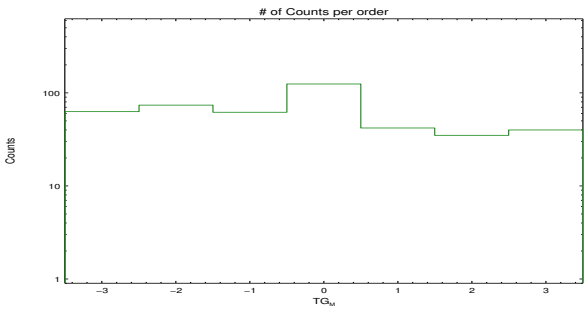


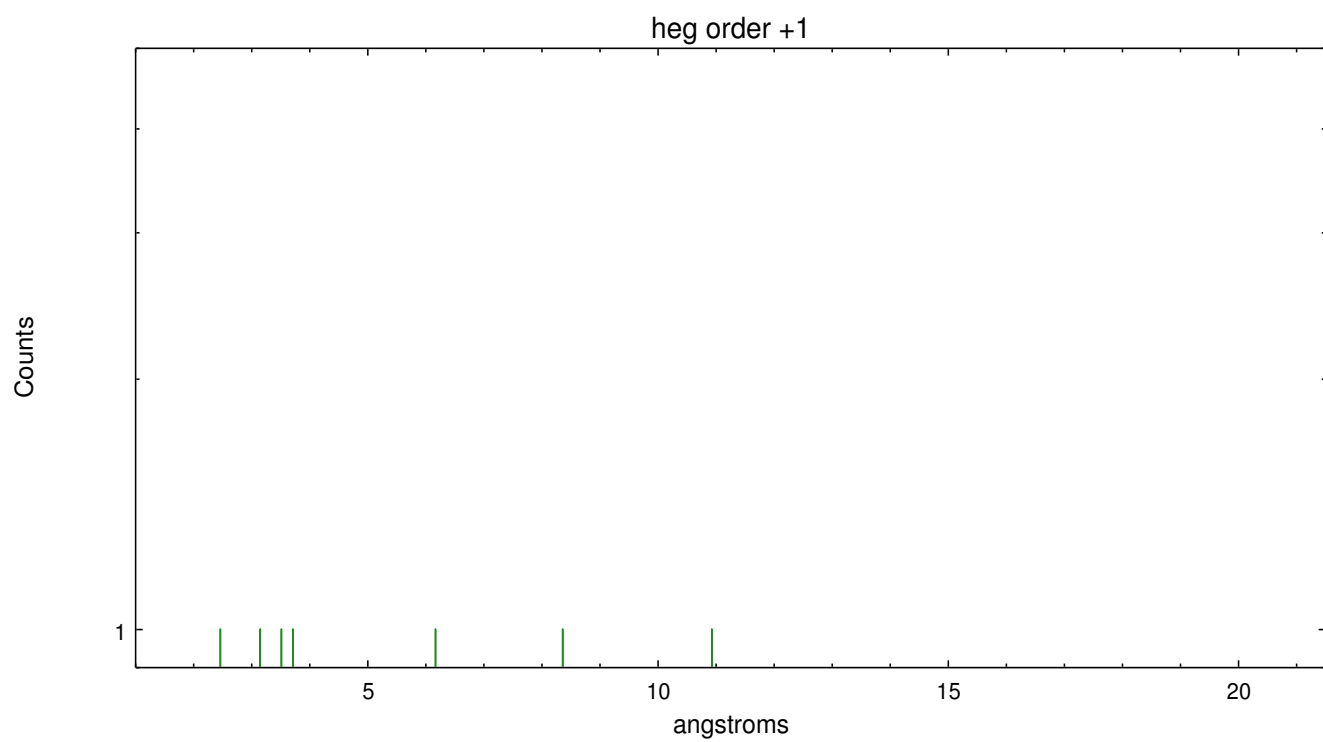
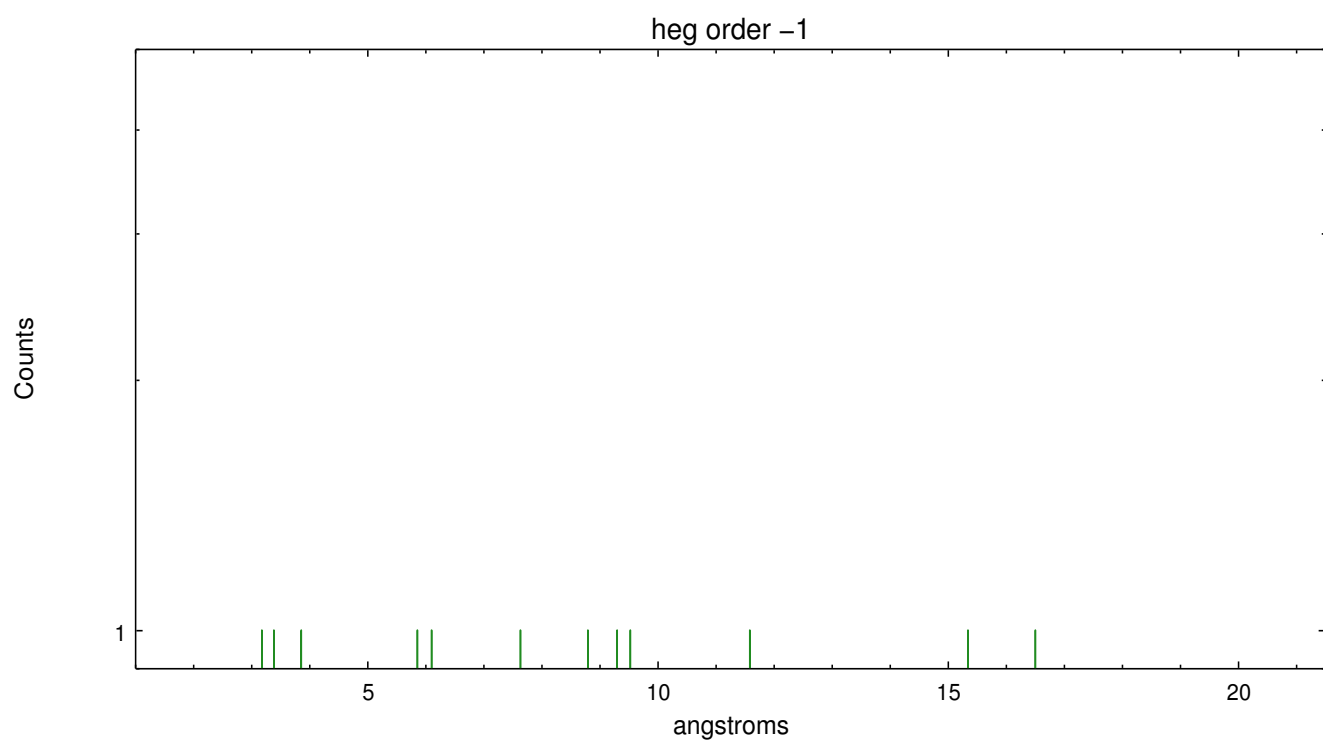
Spot Image HEG



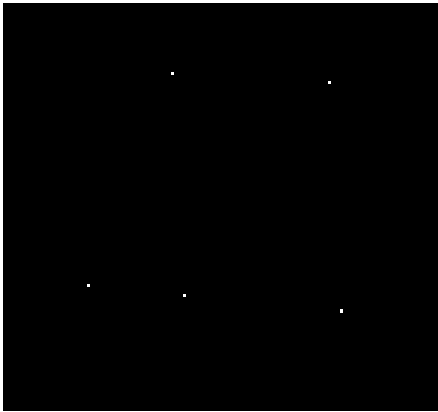
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	63	74	62	125	42	35	40

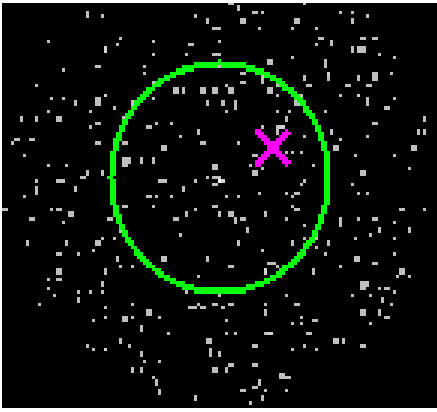




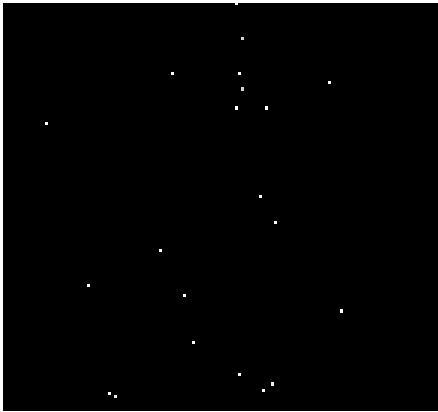
3.2 MEG Arm



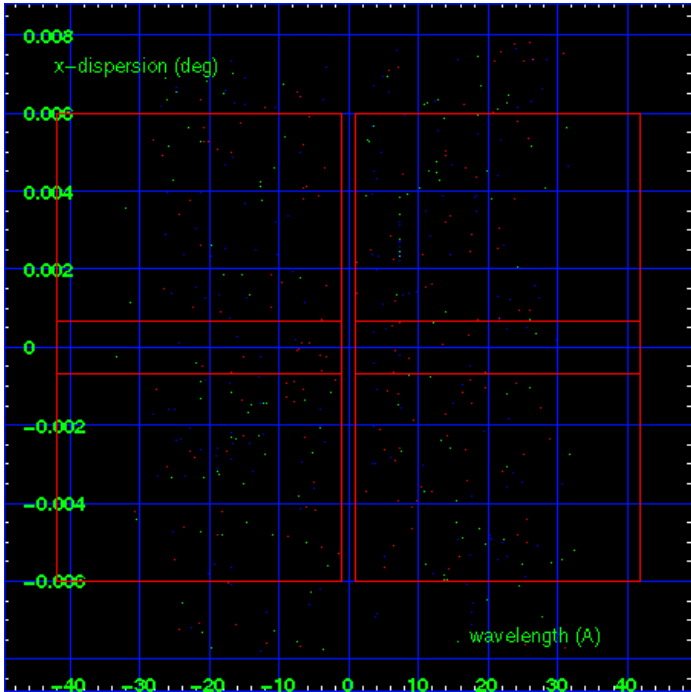
MEG Order Sort 123



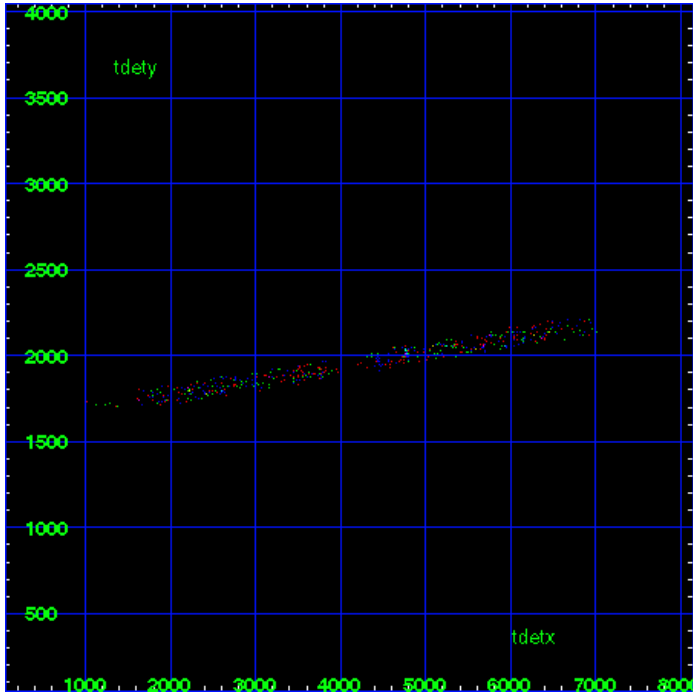
MEG Zero Order



MEG Order Sort ALL

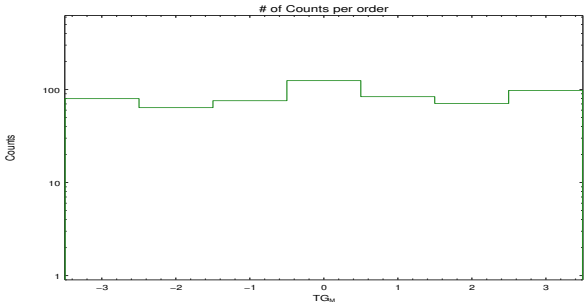


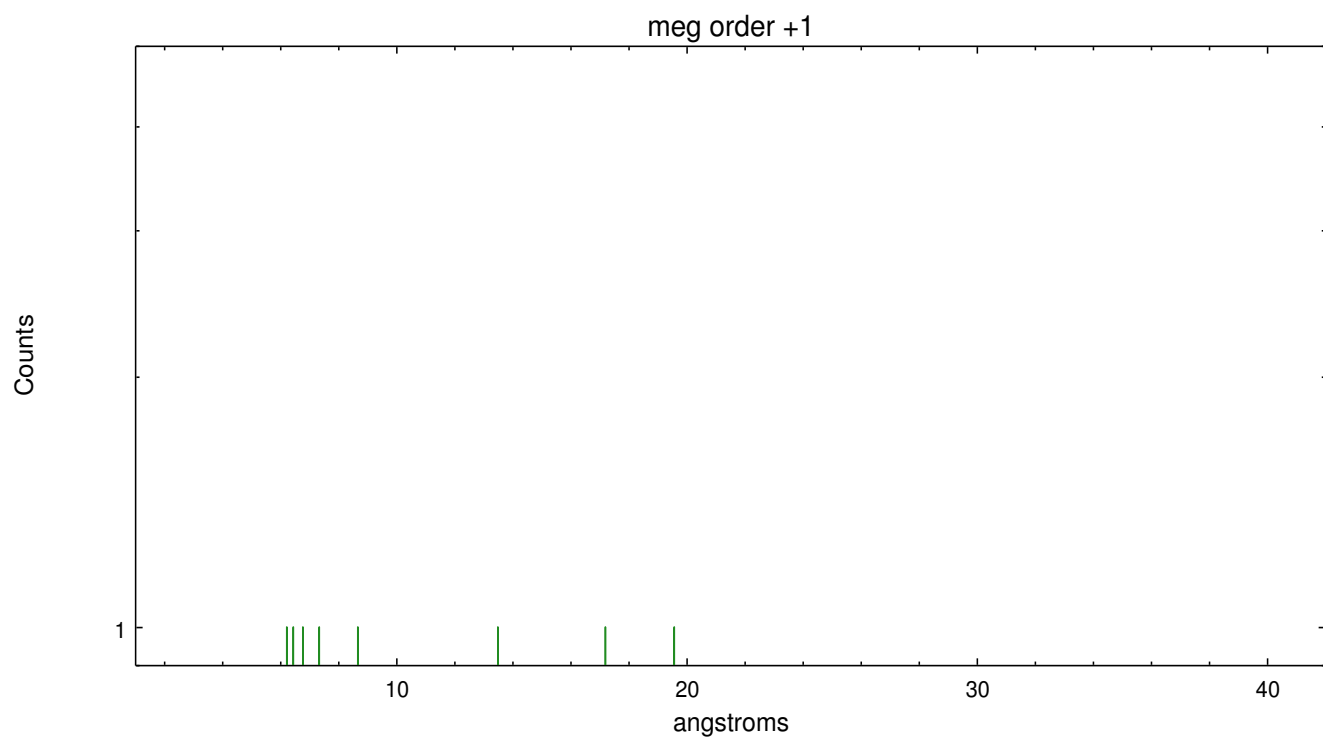
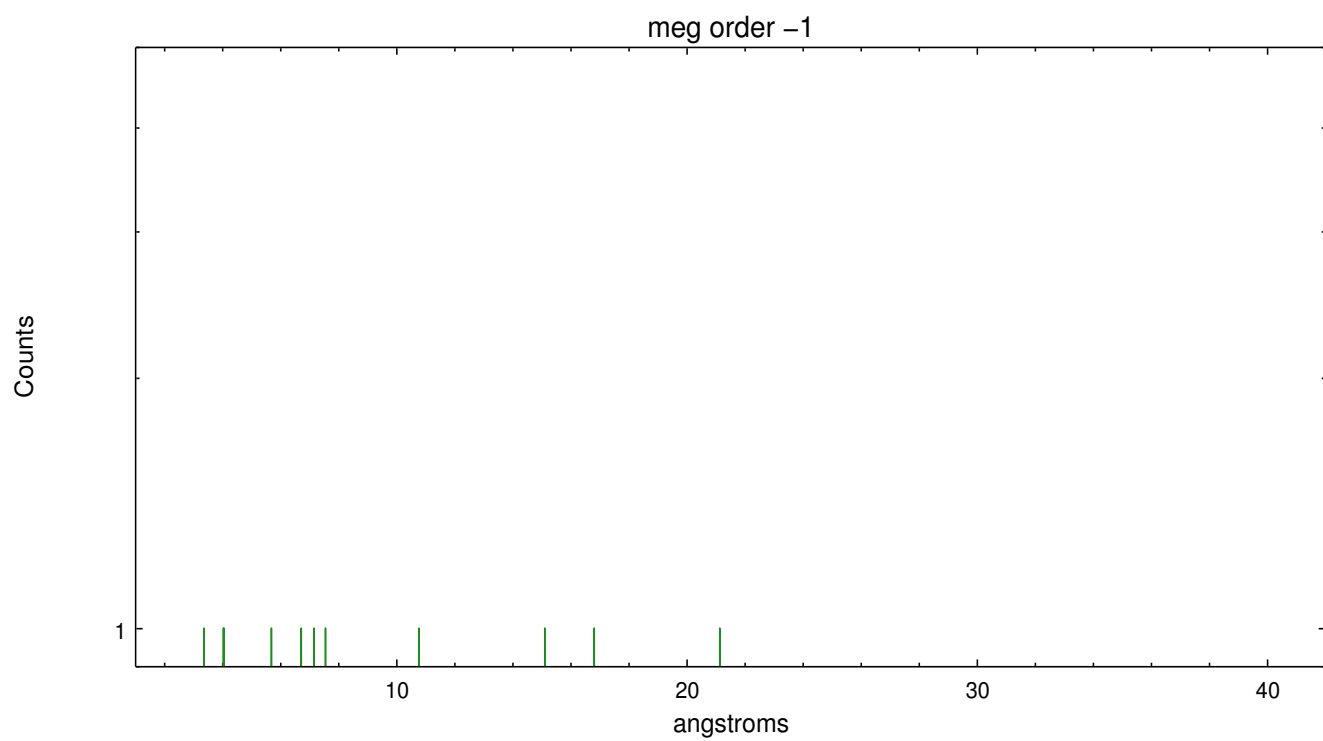
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	80	64	76	125	84	71	98





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.169

A.2 Comments

Standard software processing technique using the tool tgdetect failed to determine a position for the zeroth order for this observation, due to low signal-to-noise. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction.

The sky coordinates for the zeroth order position are x=4082.68, y=4087.90.