

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 5040 - L2 Version 3
Chandra X-Ray Center

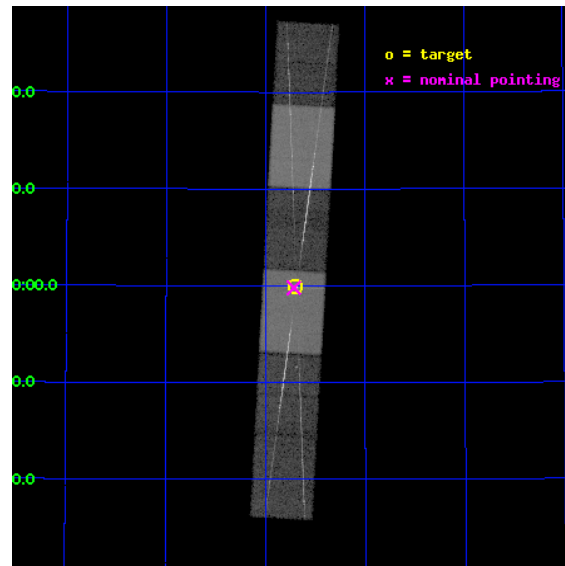
L2 Processing Date : Dec 8 2012

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1 Front

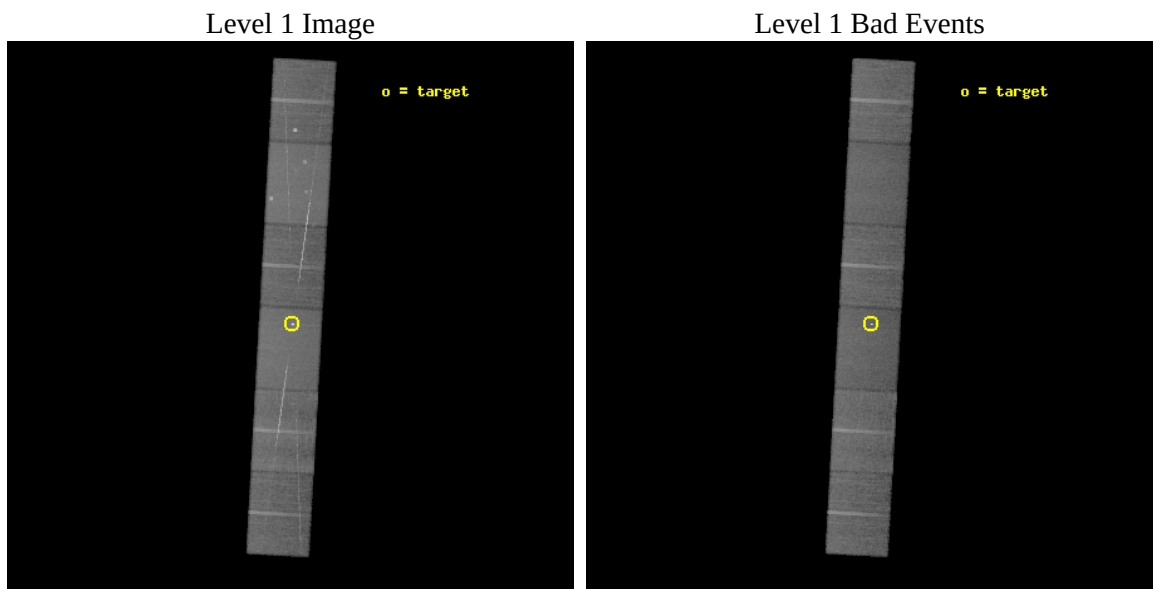
seq_num	290313	Sequence number
obs_id	5040	Observation id
title	AO5 Calibration Observations of Capella	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Capella	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.17625	Observer's specified target RA [deg]
dec_targ	45.997889	Observer's specified target Dec [deg]
ra_nom	79.178778206653	Nominal RA [deg]
dec_nom	45.996535139342	Nominal Dec [deg]
roll_nom	93.154809255412	Nominal Roll [deg]
revision	3	Processing version of data
ontime	29142.5	Sum of GTIs [s]
livetime	28671.82334792	Livetime [s]
ontime4	29142.5	Sum of GTIs [s]
ontime5	29142.5	Sum of GTIs [s]
ontime6	29142.5	Sum of GTIs [s]
ontime7	29142.5	Sum of GTIs [s]
ontime8	29142.5	Sum of GTIs [s]
ontime9	29142.5	Sum of GTIs [s]
l2events	342868	Number of level 2 events



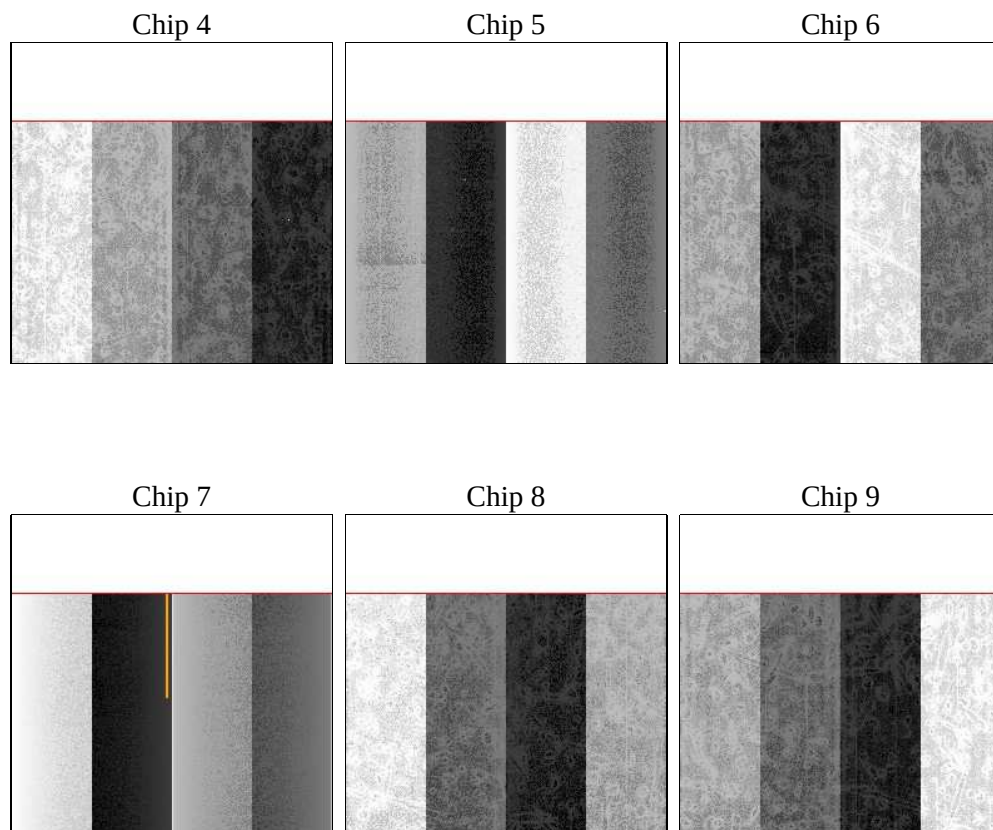
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	29142.5	Sum of GTIs [s]
caldsver	4.5.4	 	ontime4	29142.5	Sum of GTIs [s]
date	2012-12-08T23:47:42	Date and time of file creation	ontime5	29142.5	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	29142.5	Sum of GTIs [s]
			ontime7	29142.5	Sum of GTIs [s]
			ontime8	29142.5	Sum of GTIs [s]
			ontime9	29142.5	Sum of GTIs [s]
			l1events	1354550	Number of level 1 events

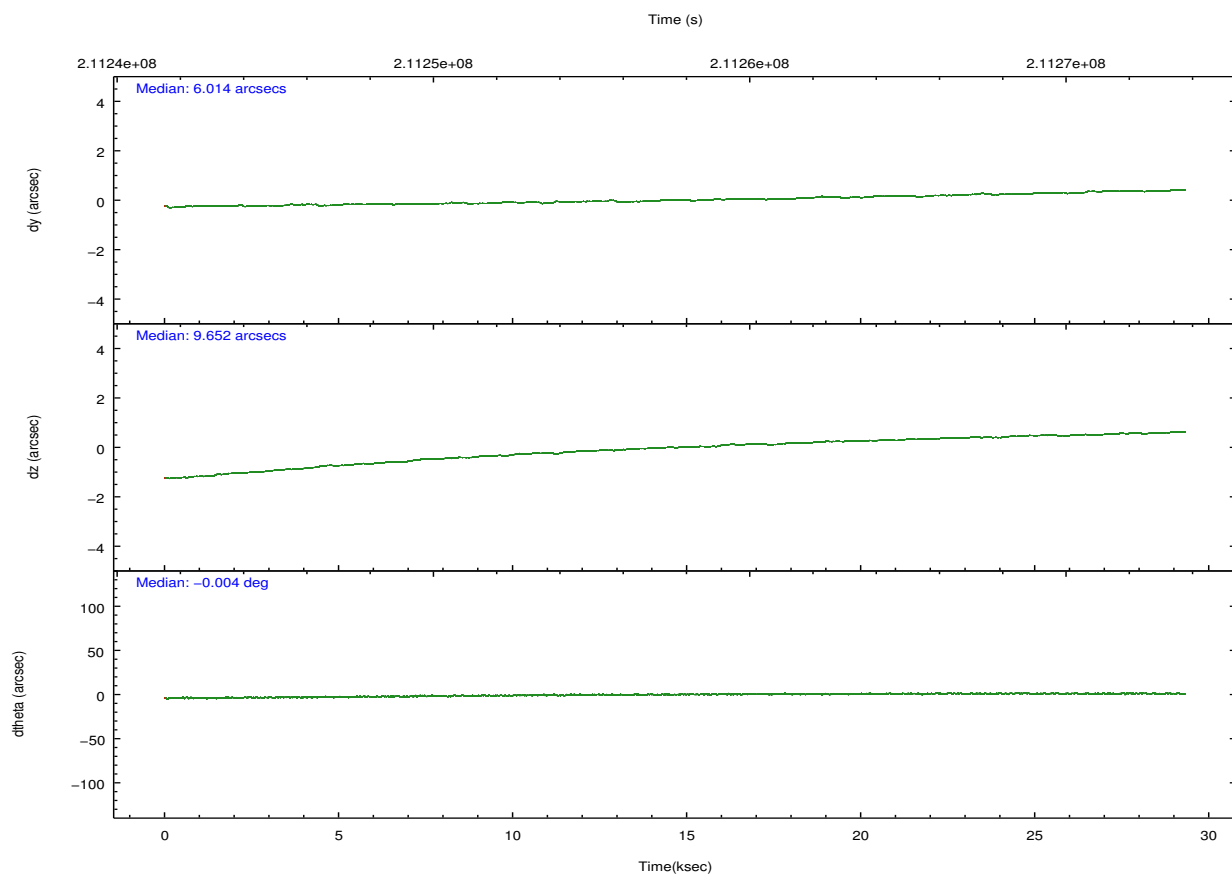
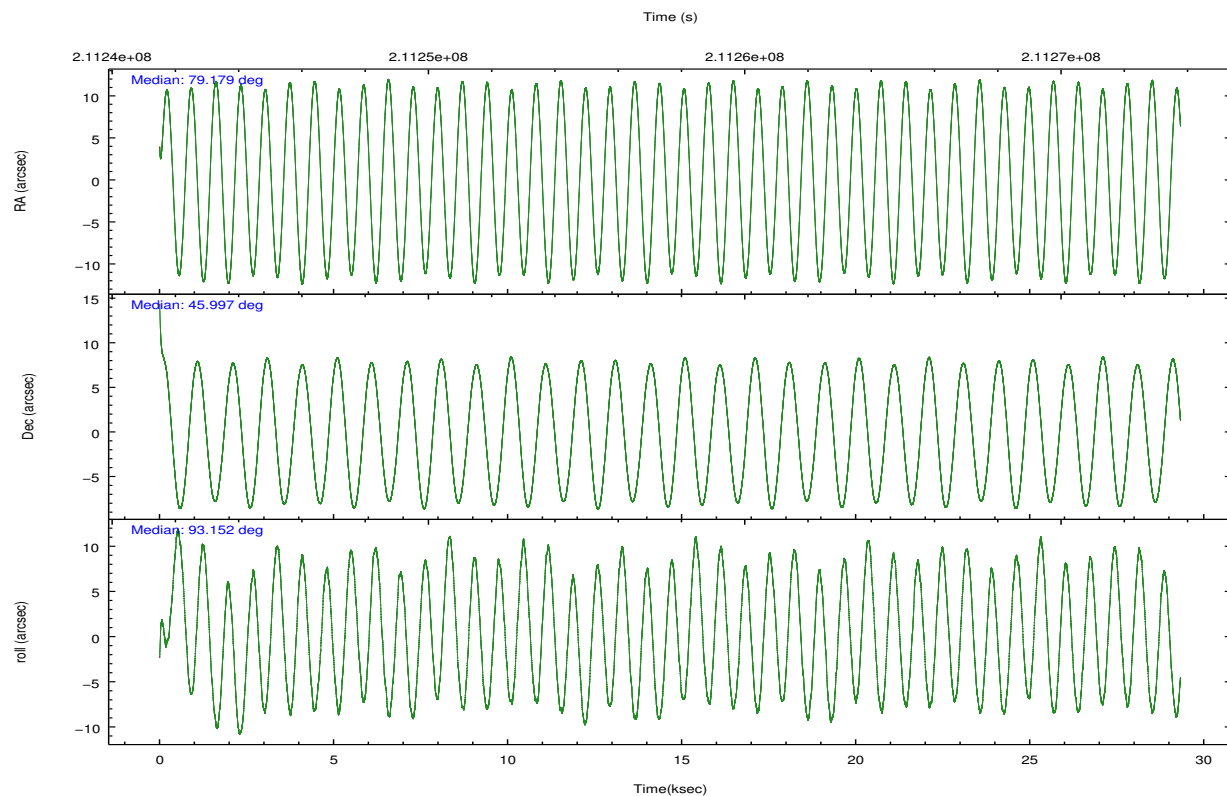
2.1.4 Events

	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	201849	278448	194339	257022	245035	177857	grade 0 events	18425	21565	22885	11804	31803	12488
rejected events	171772	145866	157353	148758	179400	153005		9%	7%	11%	4%	12%	7%
rejected %	85%	52%	80%	57%	73%	86%	grade 1 events	158	485	164	452	206	89
								0%	0%	0%	0%	0%	0%
							grade 2 events	4811	38653	5795	22975	12010	4431
								2%	13%	2%	8%	4%	2%
							grade 3 events	2443	7172	2616	10343	5511	2361
								1%	2%	1%	4%	2%	1%
							grade 4 events	2234	6789	2485	10232	5146	2345
								1%	2%	1%	3%	2%	1%
							grade 5 events	7420	19797	7998	23855	10527	8306
								3%	7%	4%	9%	4%	4%
							grade 6 events	3423	63965	4232	56943	13291	4142
								1%	22%	2%	22%	5%	2%
							grade 7 events	162935	120022	148164	120418	166541	143695
								80%	43%	76%	46%	67%	80%

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	79.200631	79.17877820665268	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	45.973912	45.99653513934178	Subarray start row	1	1
[deg] Pointing Roll	92.982469	93.1548092554122	Subarray row count	774	774
[s] Window start time (MET)	210384064.184000	210384064.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	215568064.184000	215568064.184000	[s] Primary exposure time	0.000000	2.5
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	211243128.184000	211241409.92778			
Observation start date	2004-09-10T22:37:44	2004-09-10T22:10:09			
[s] Observation end time (MET)	211272128.184000	211272309.57916			
Observation end date	2004-09-11T06:41:04	2004-09-11T06:45:09			
Read mode	TIMED	TIMED			

2.3 Aspect

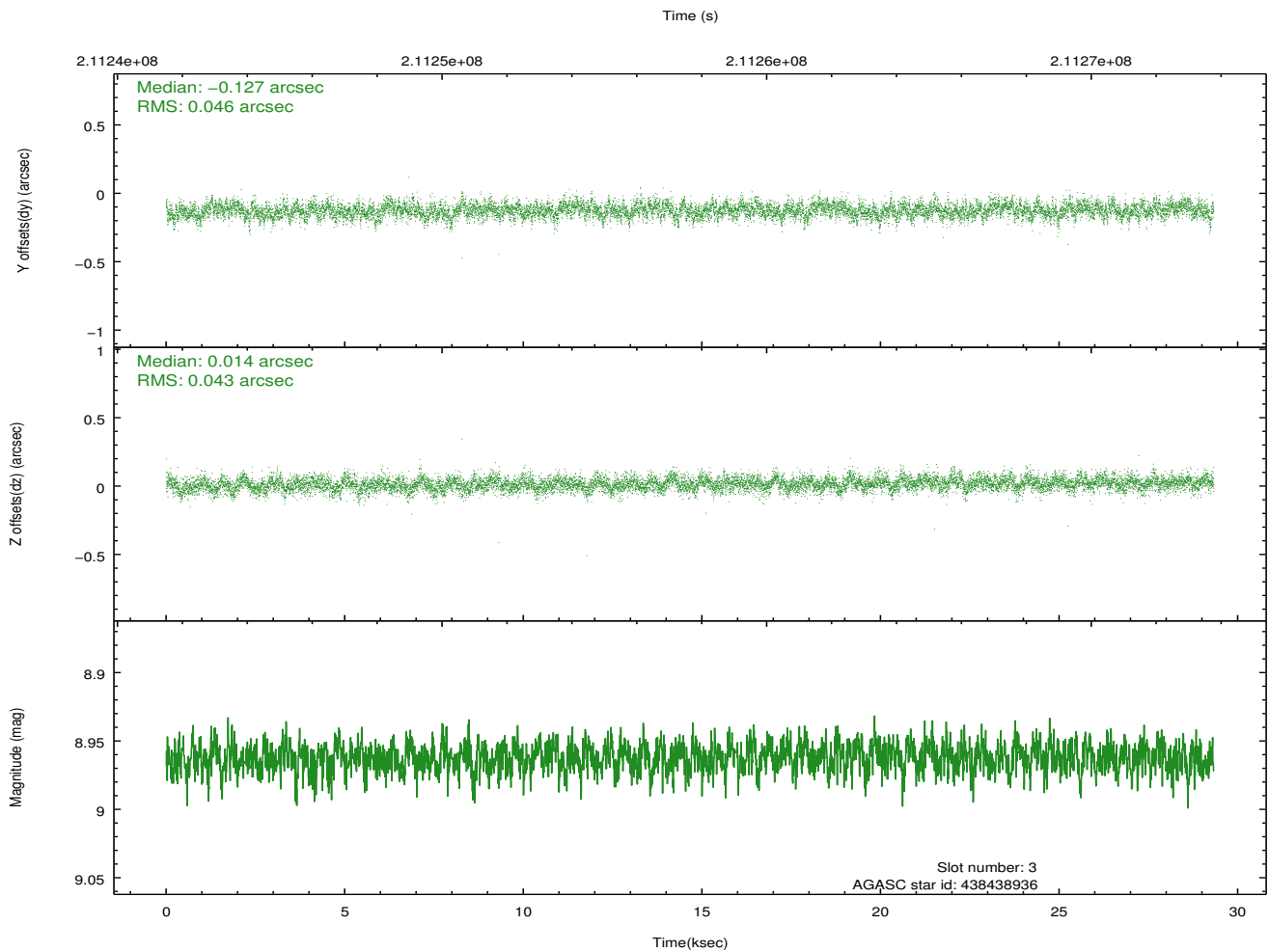
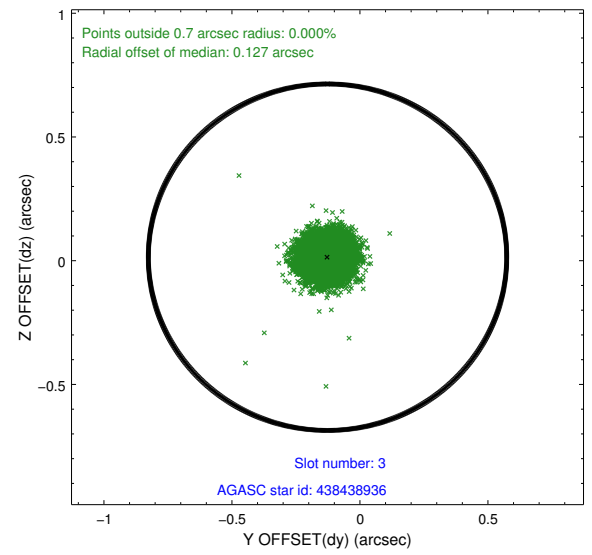
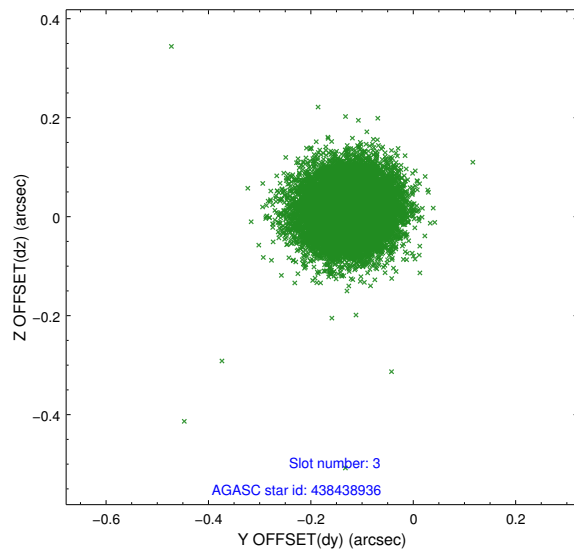


Slot Statistics

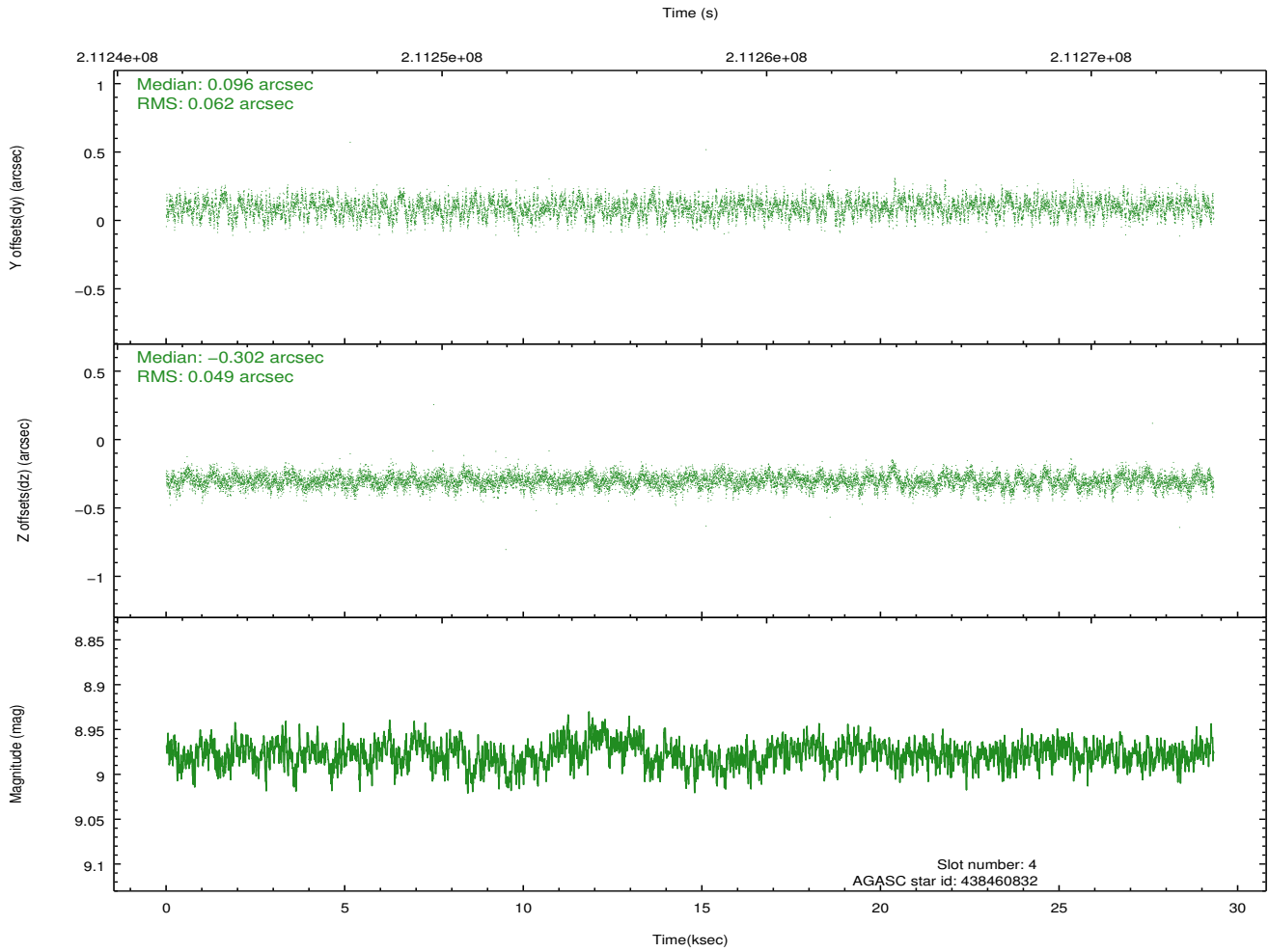
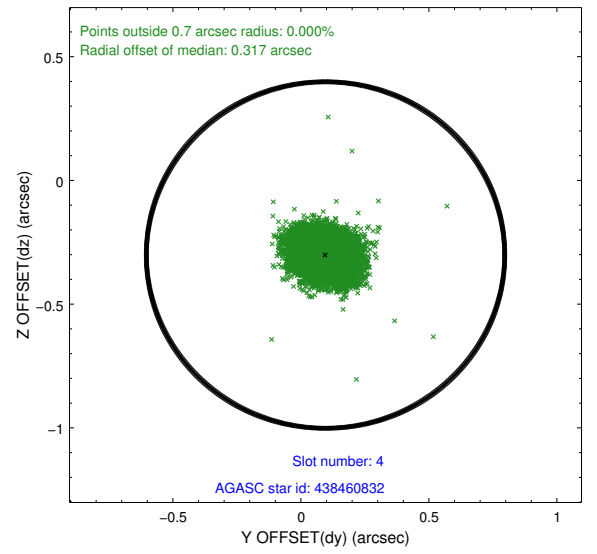
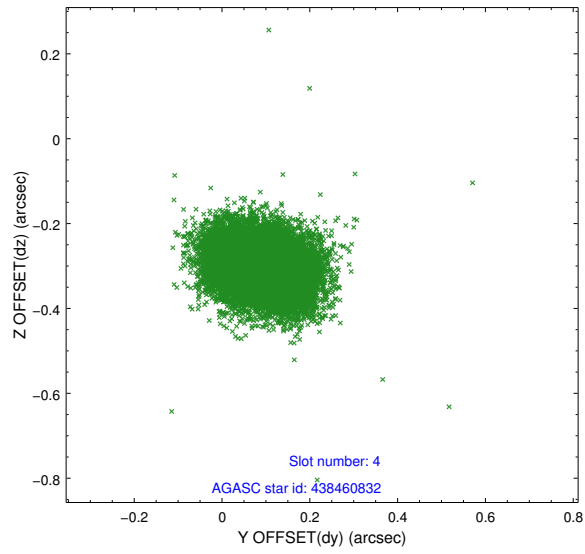
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	7154	0.020	-0.021	0.018	0.026	0.000000	0.000000	937.46	-1788.52
1	FID	ACIS-S-4	7.19	7154	0.074	0.012	0.015	0.023	0.000000	0.000000	2155.00	115.55
2	FID	ACIS-S-5	7.23	7154	-0.119	0.023	0.008	0.016	0.000000	0.000000	-1811.42	109.31
3	GUIDE	438438936	8.96	14304	-0.127	0.014	0.067	0.110	78.241026	46.550197	2209.69	2264.28
4	GUIDE	438460832	8.98	14302	0.096	-0.302	0.084	0.136	78.414614	45.554782	-1393.95	2056.70
5	GUIDE	440145944	9.08	14299	0.095	0.261	0.090	0.141	80.083717	45.428844	-2063.24	-2126.15
6	GUIDE	440150048	7.19	14305	-0.149	-0.112	0.059	0.090	79.112838	46.416060	1600.82	134.82
7	GUIDE	440163960	8.90	14302	0.082	0.139	0.083	0.131	79.298370	45.827072	-540.16	-217.10

2.4 Star Slots

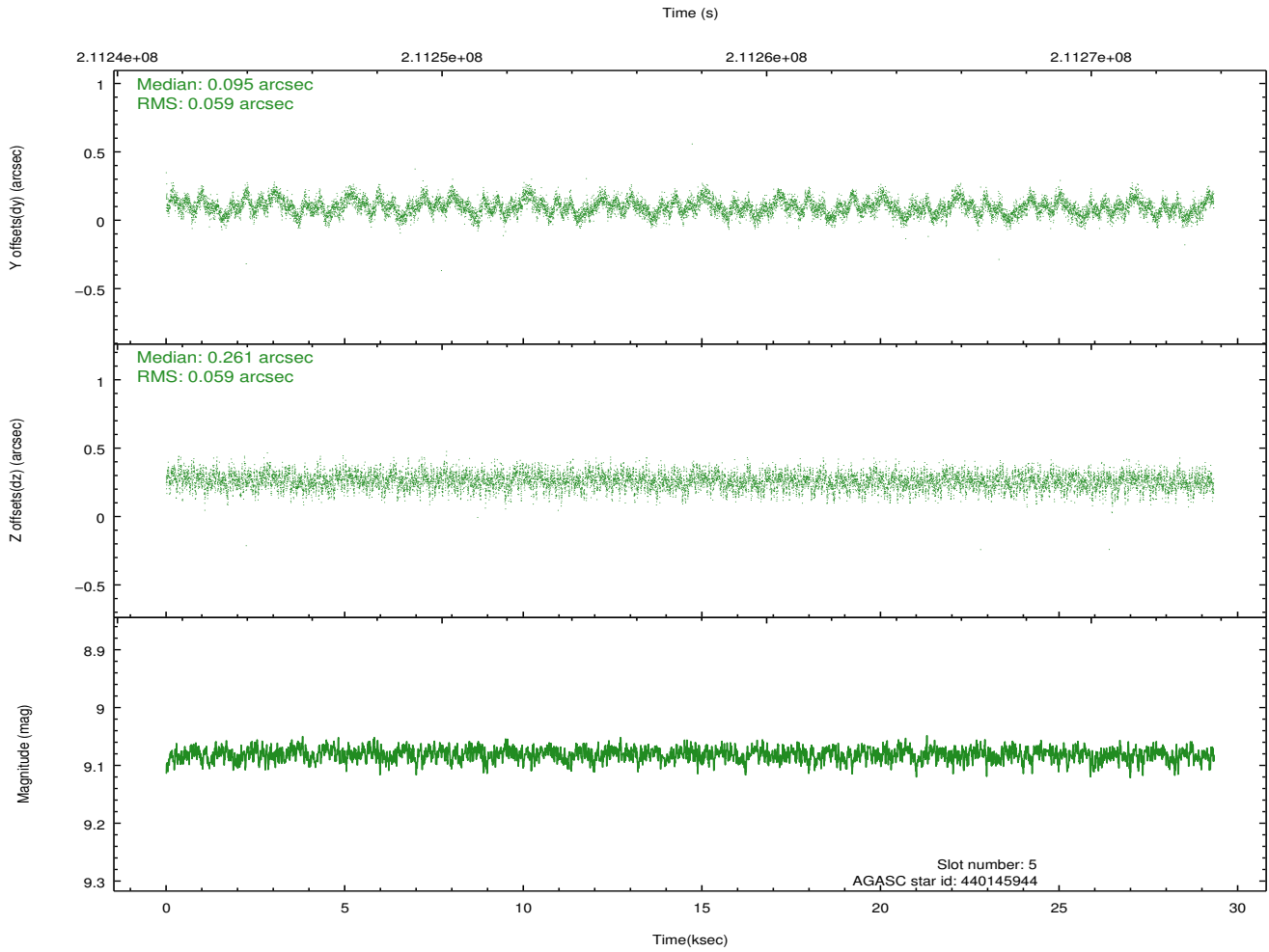
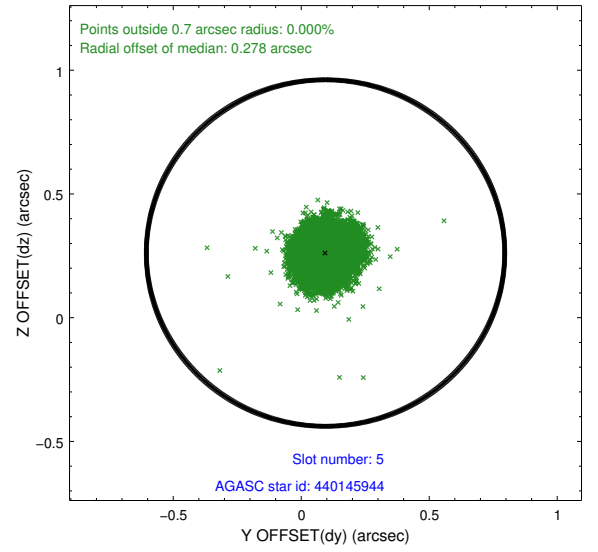
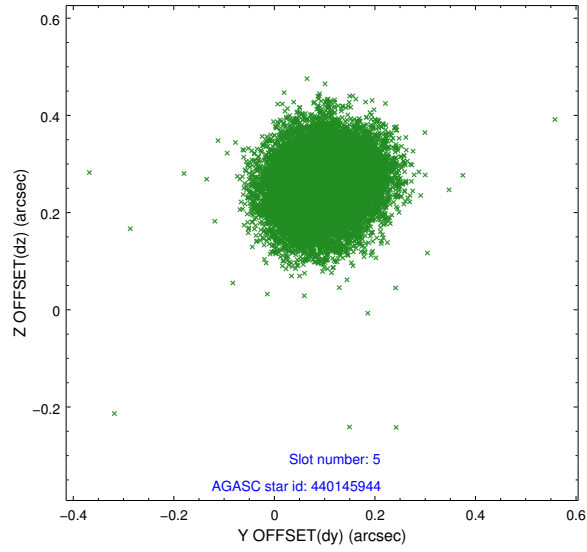
2.4.1 Slot 3



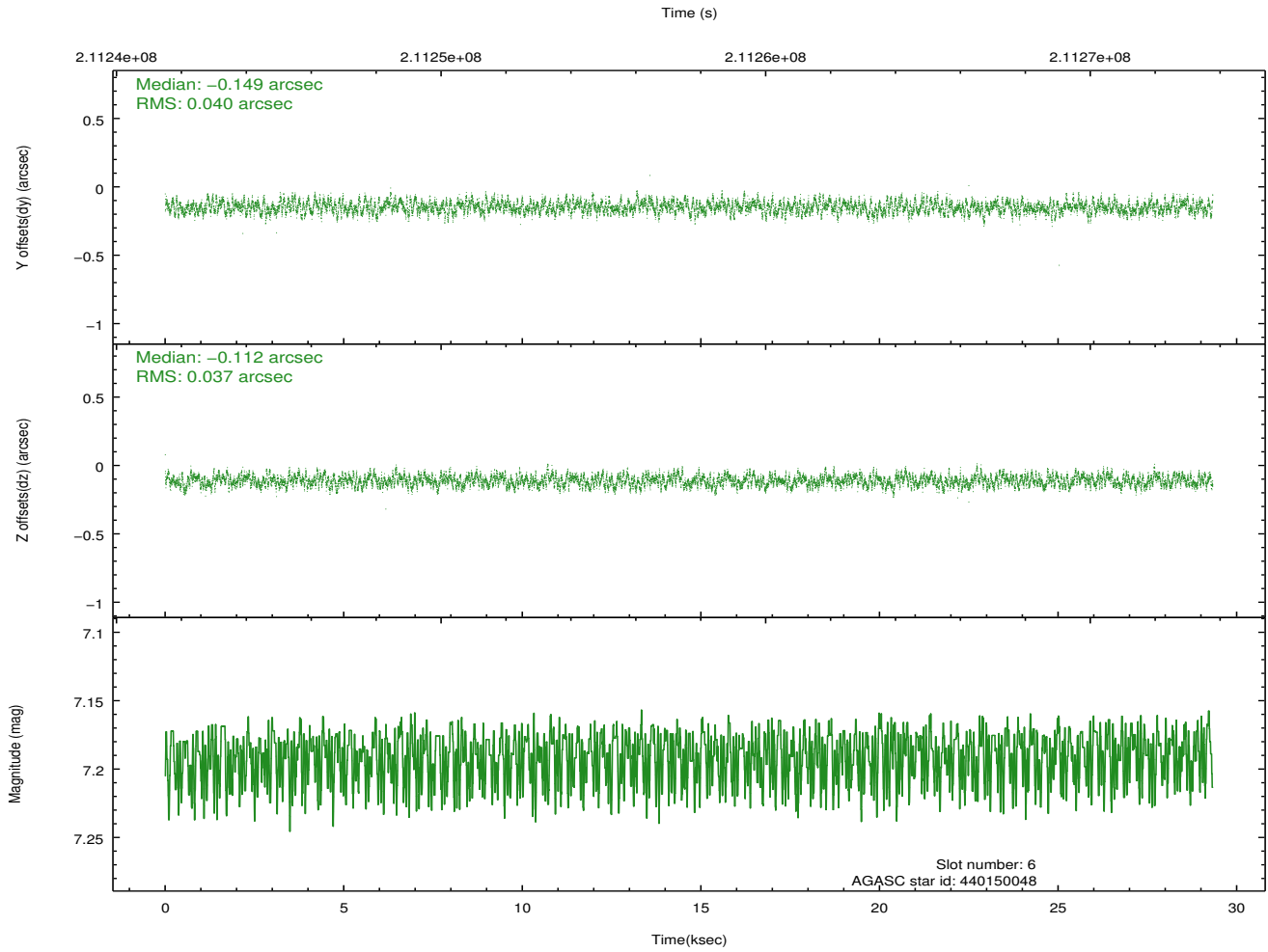
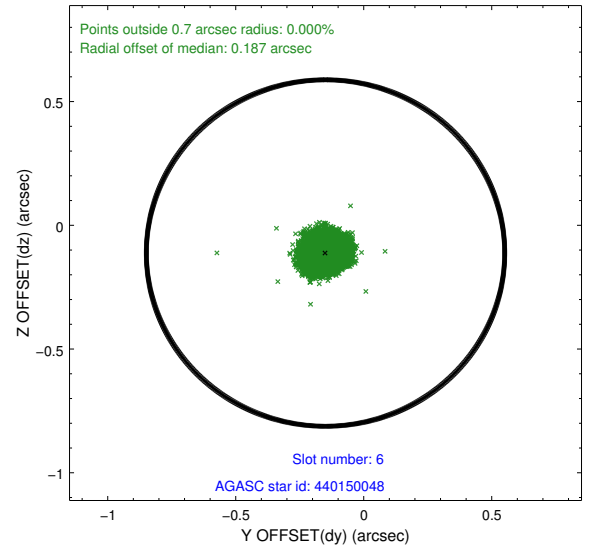
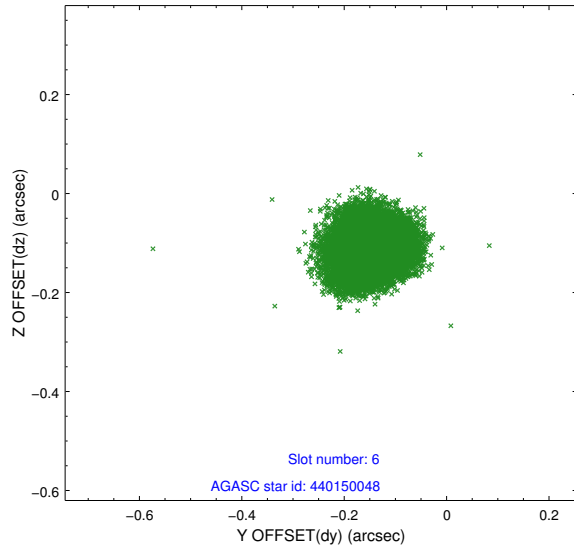
2.4.2 Slot 4



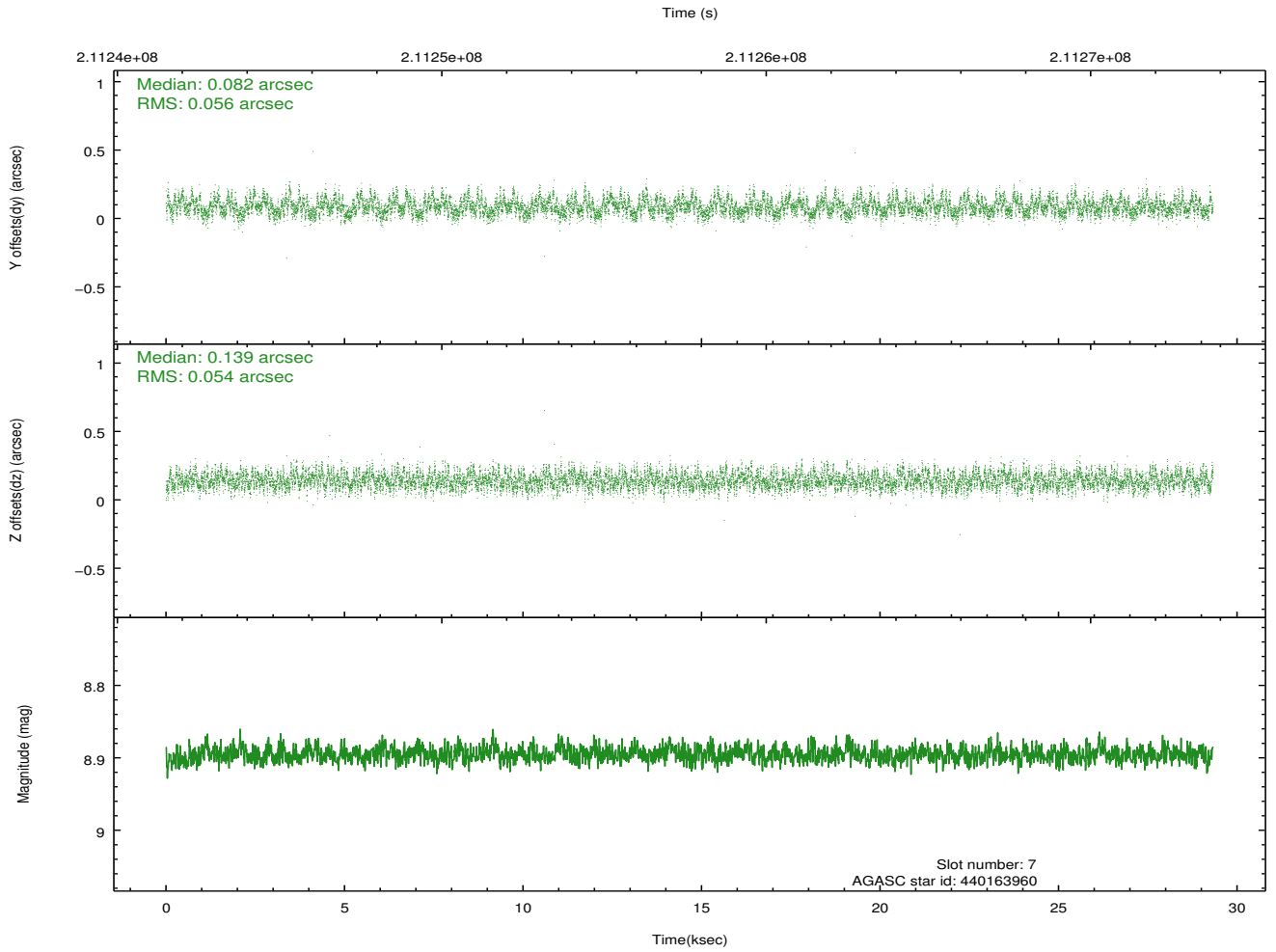
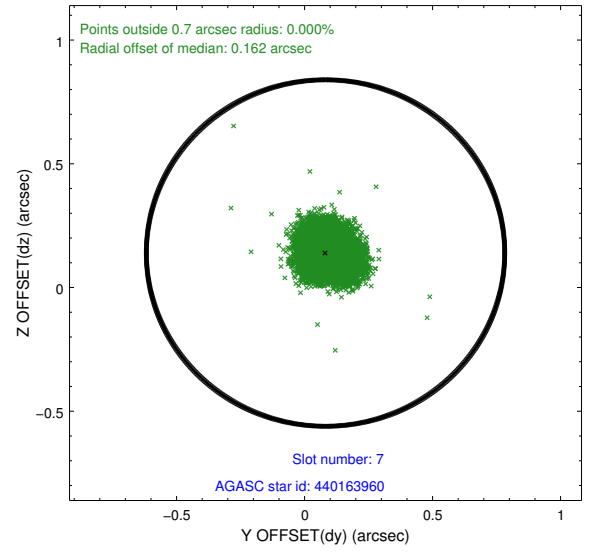
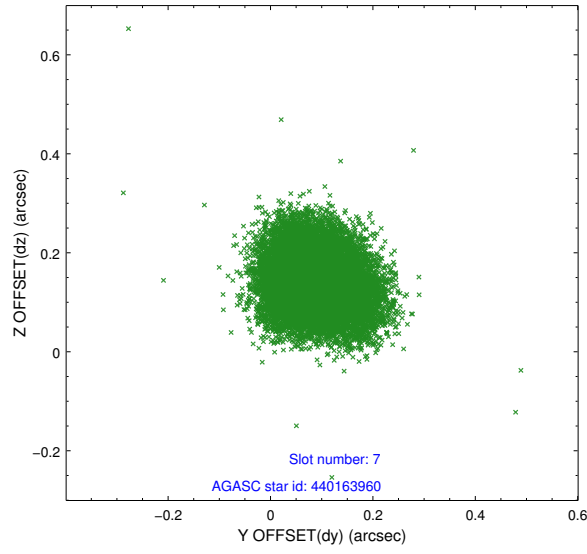
2.4.3 Slot 5



2.4.4 Slot 6

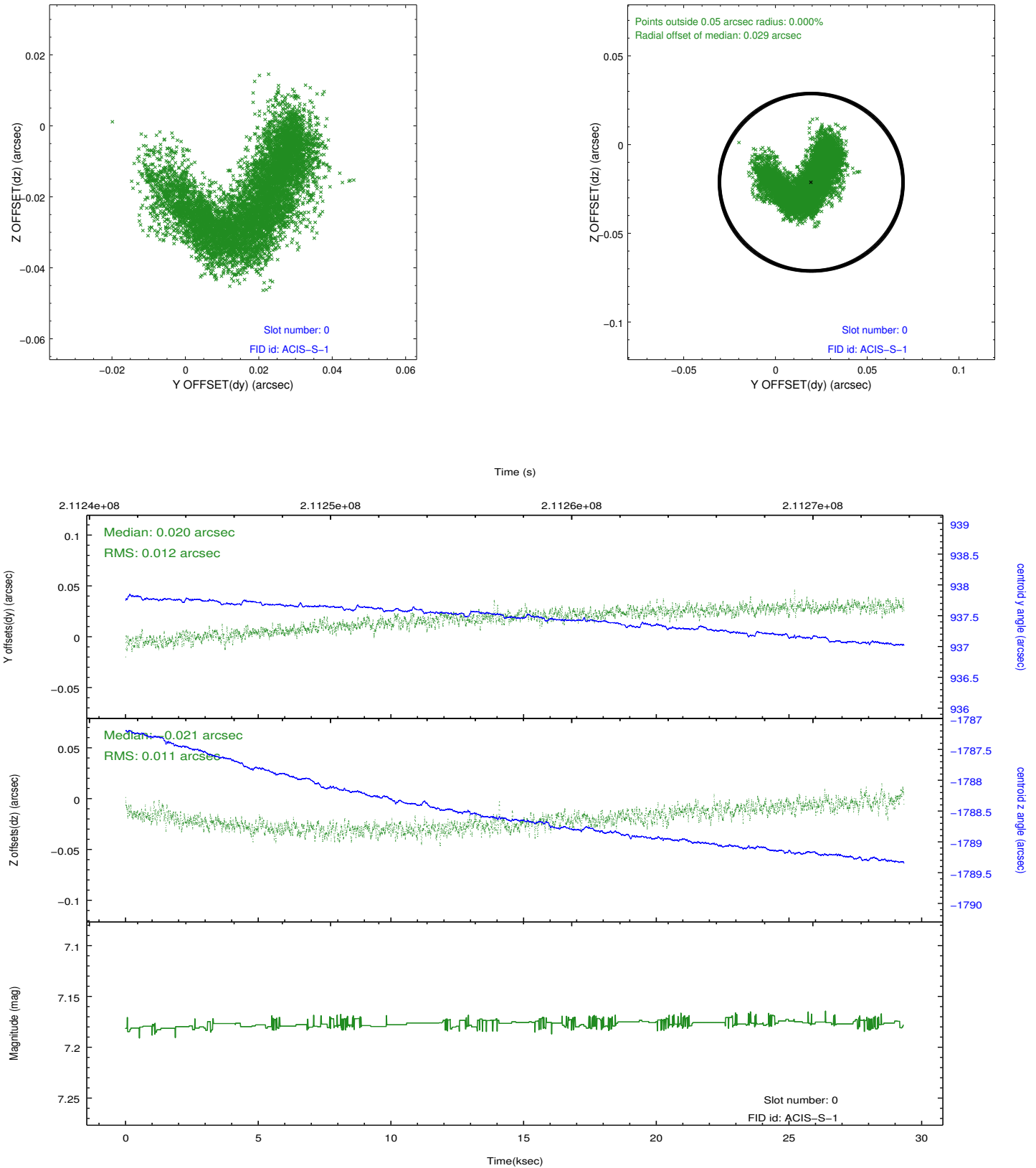


2.4.5 Slot 7

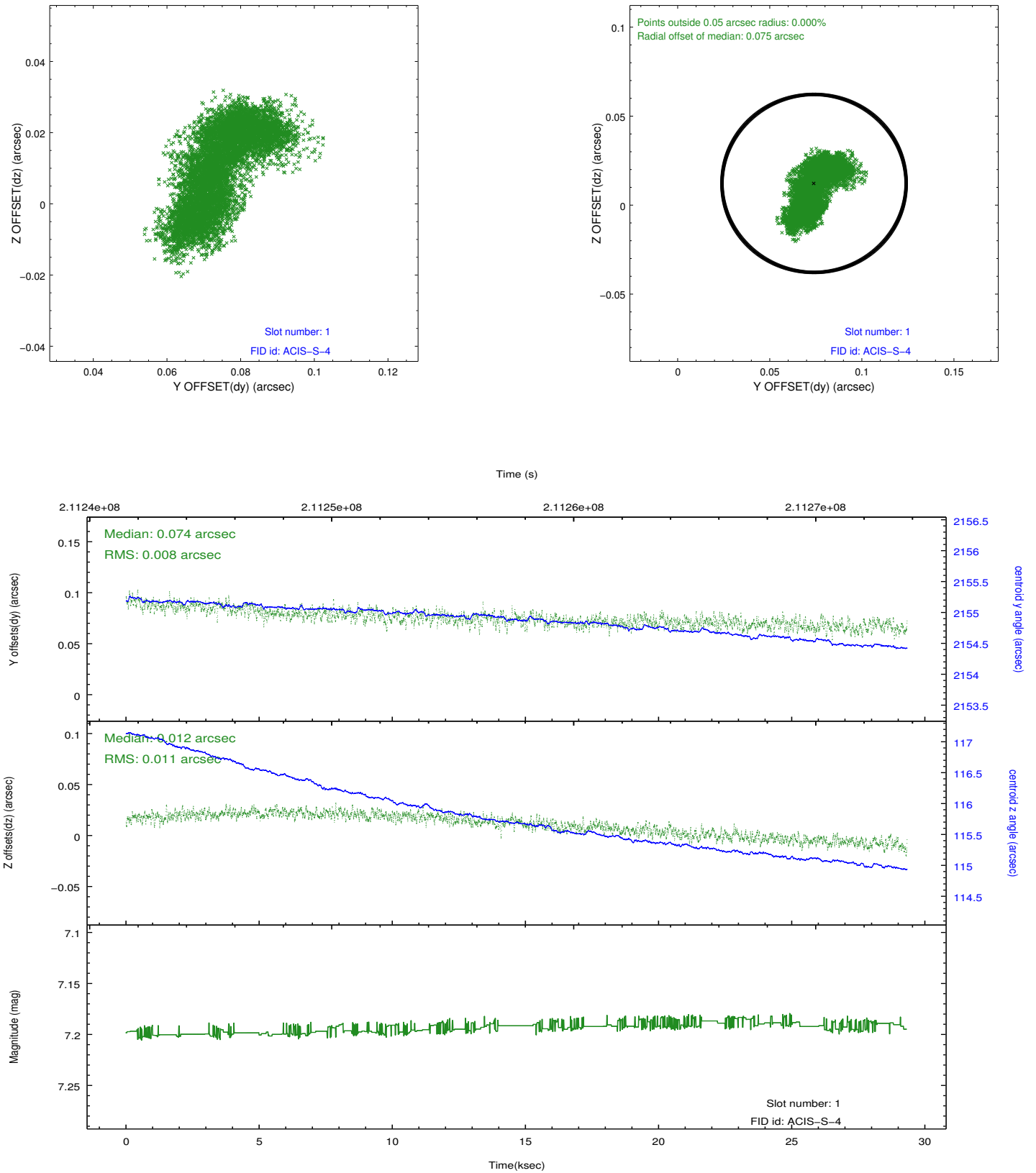


2.5 FID Slots

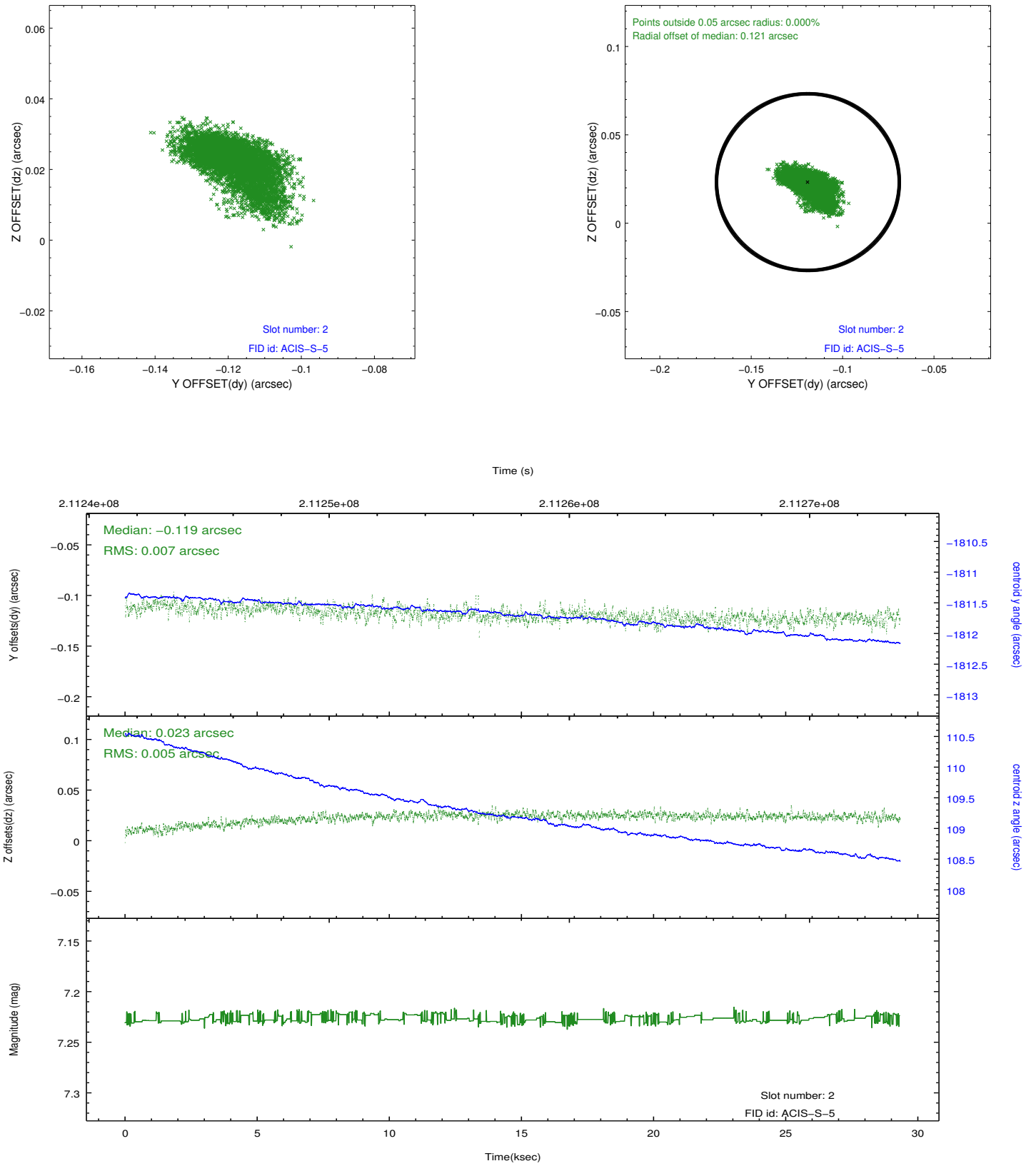
2.5.1 Slot 0



2.5.2 Slot 1

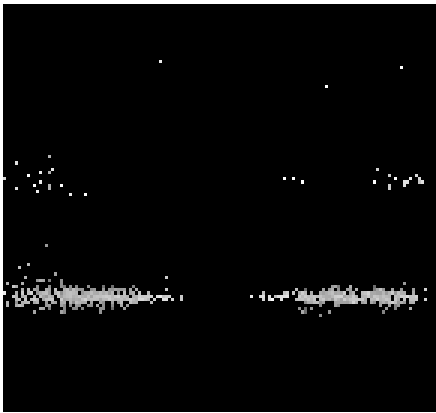


2.5.3 Slot 2

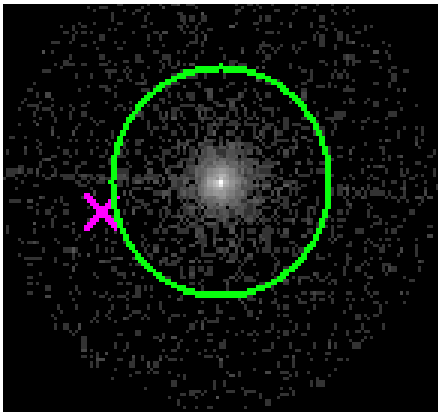


3 Gratings

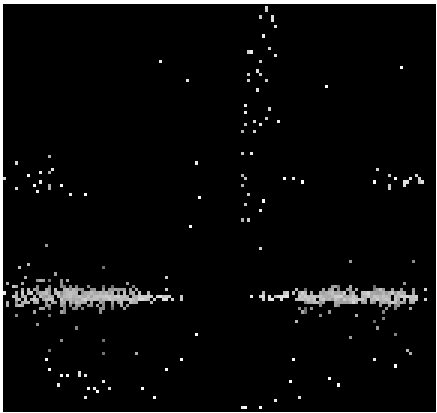
3.1 HEG Arm



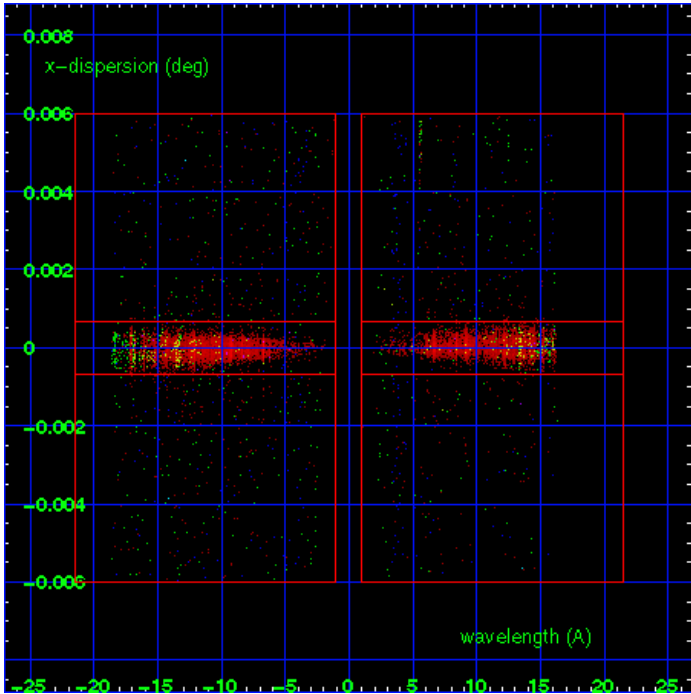
HEG Order Sort 123



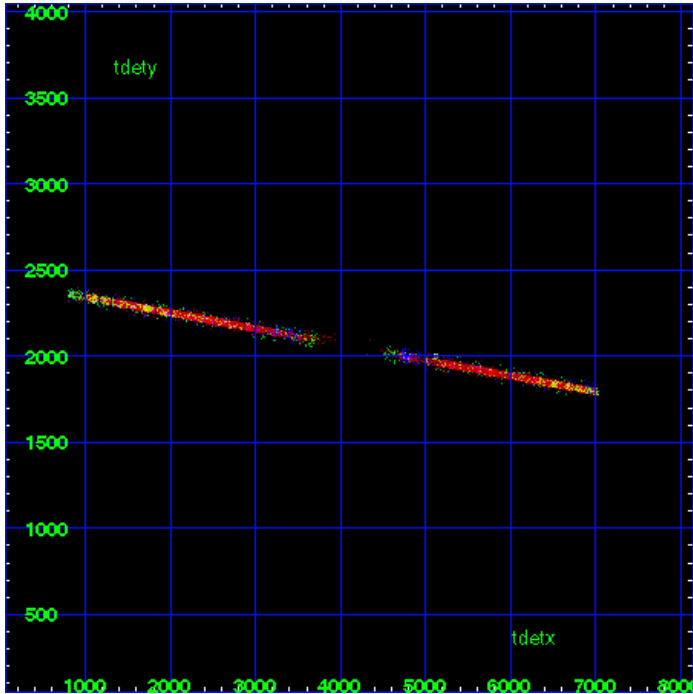
HEG Zero Order



HEG Order Sort ALL

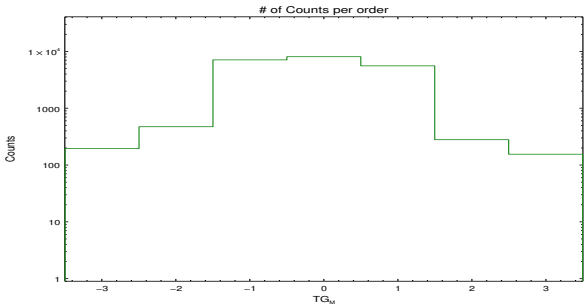


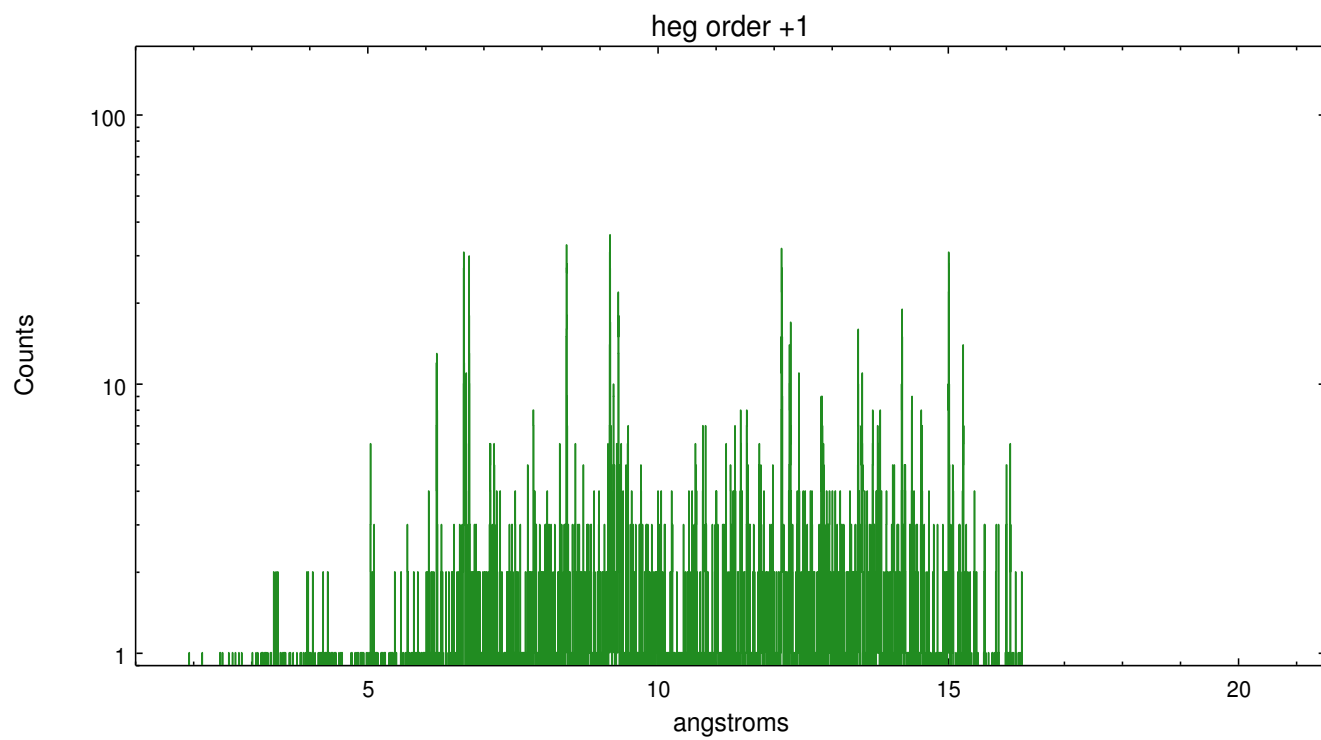
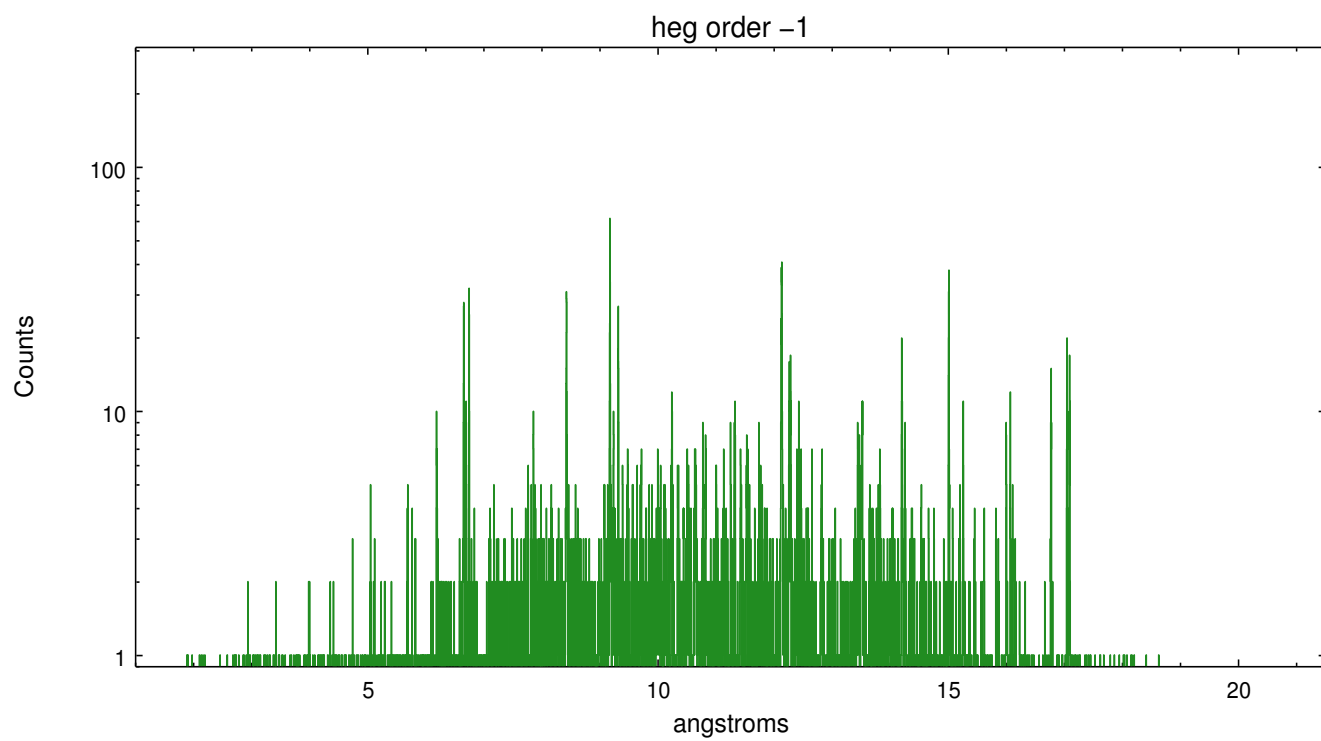
Spot Image HEG



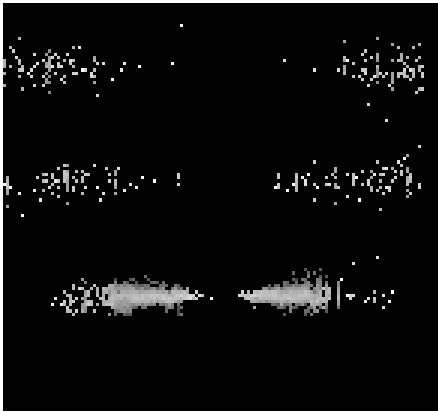
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	195	474	7151	8138	5612	280	155

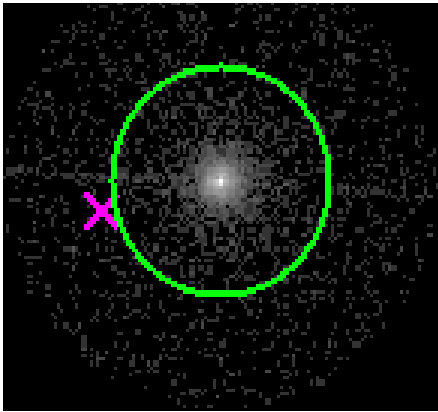




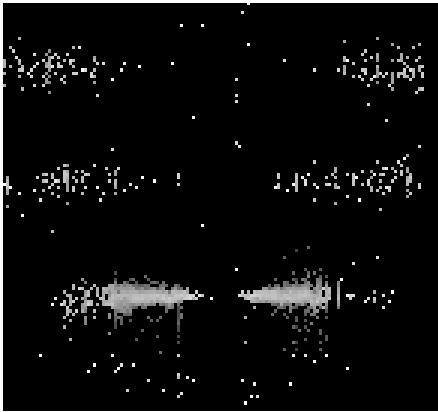
3.2 MEG Arm



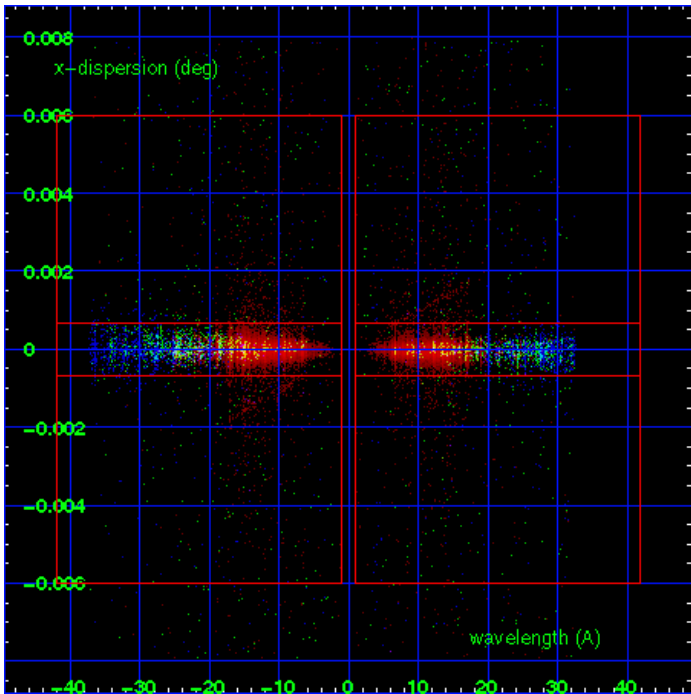
MEG Order Sort 123



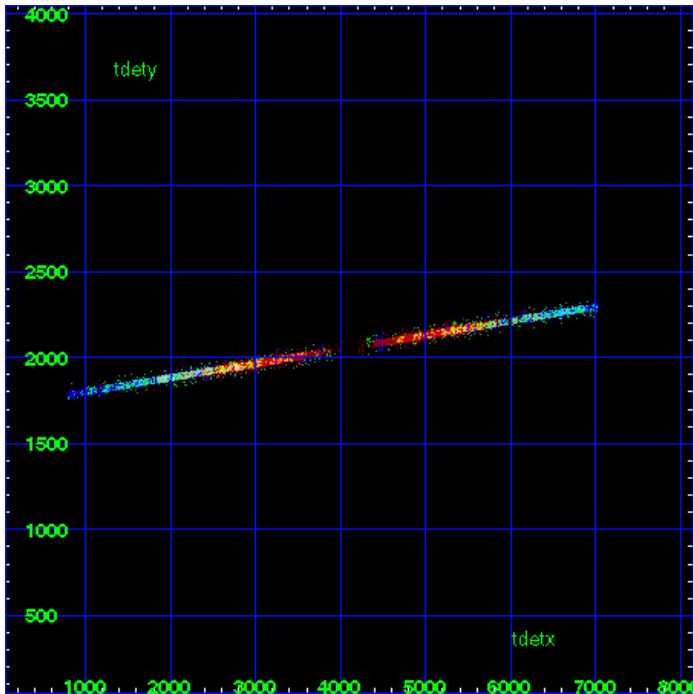
MEG Zero Order



MEG Order Sort ALL

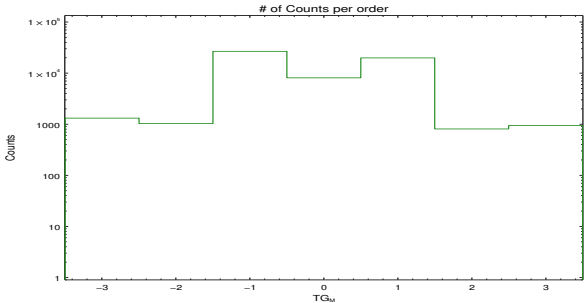


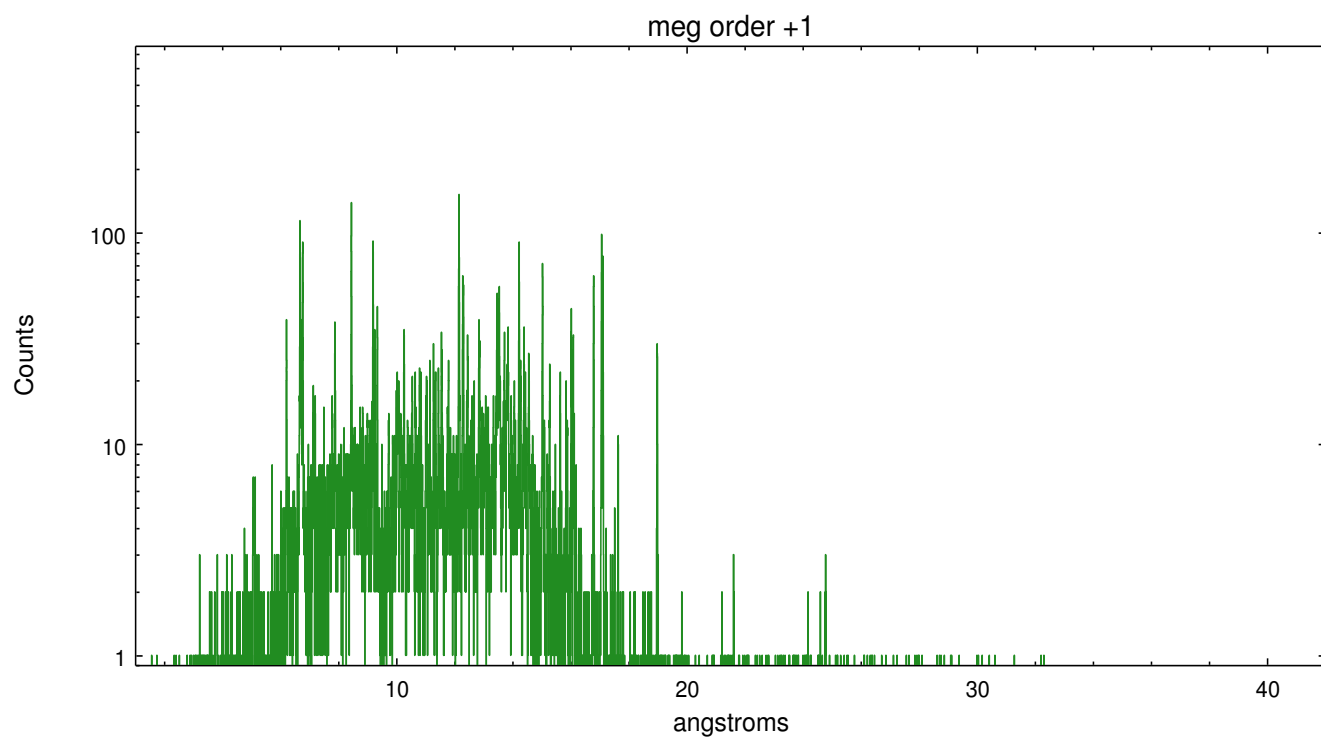
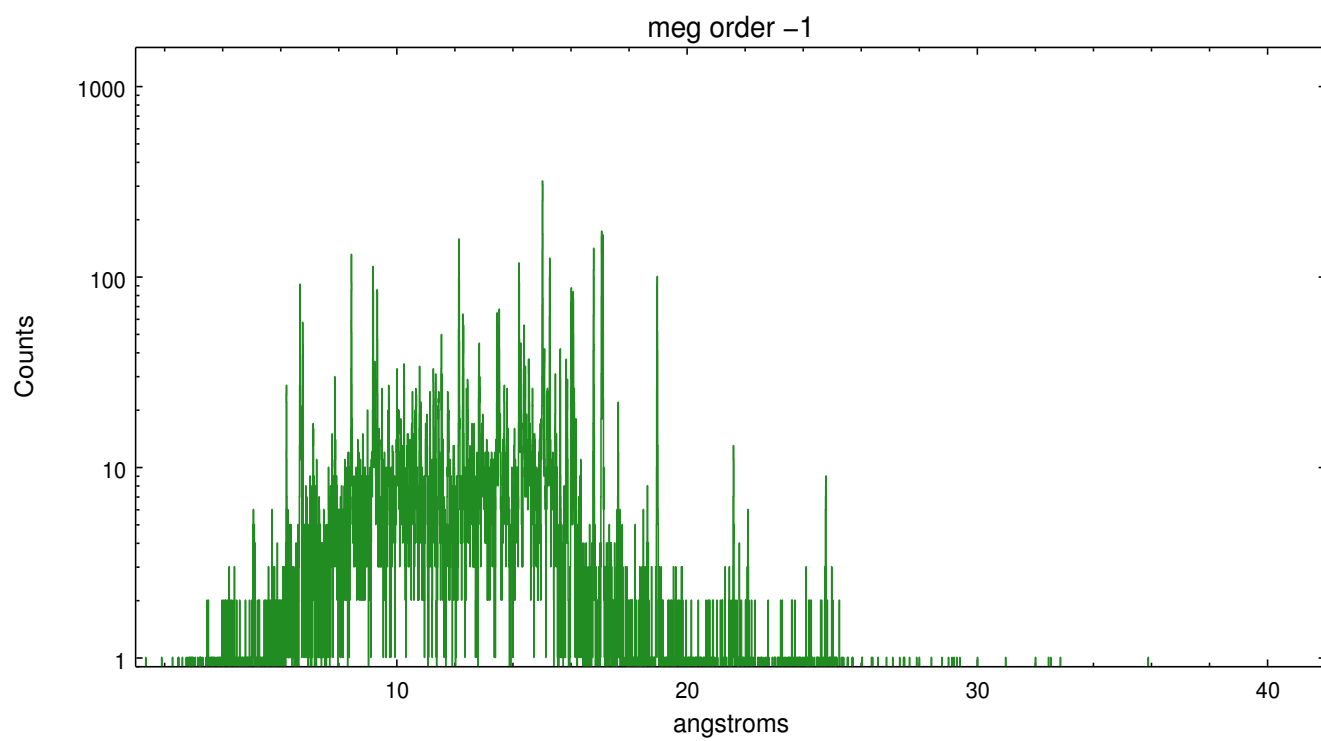
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1320	1036	26888	8138	20016	810	944





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.142

A.2 Comments

Source is 10 arcsec displaced from requested coordinates.