

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5422 - L2 Version 3
Chandra X-Ray Center

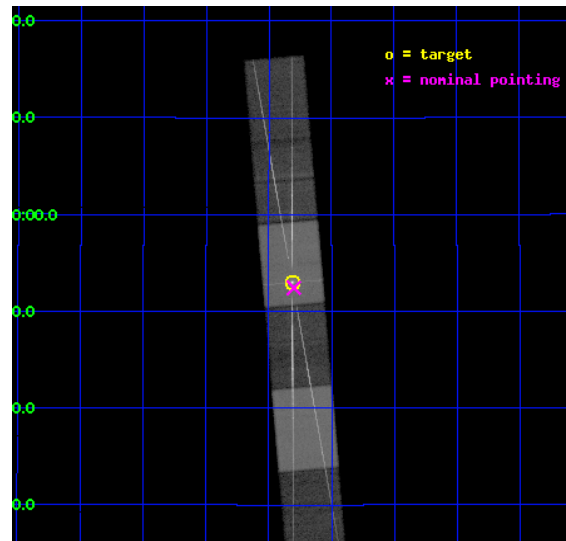
L2 Processing Date : Dec 23 2012

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1 Front

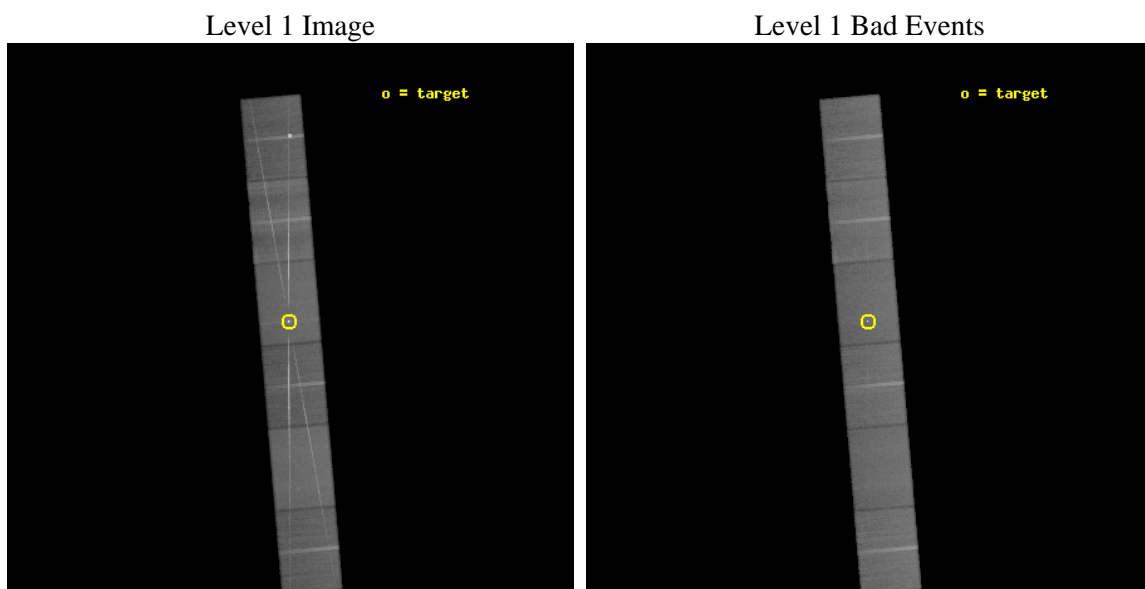
seq_num	200355	Sequence number
obs_id	5422	Observation id
title	CORONAL FLARING AND THE NEUPERT EFFECT ON THE ACTIVE BINARY SIGMA GEM	Proposal title
observer	Dr. Alexander Brown	Principal investigator
object	SIGMA GEM	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	115.827917	Observer's specified target RA [deg]
dec_targ	28.88325	Observer's specified target Dec [deg]
ra_nom	115.82505811729	Nominal RA [deg]
dec_nom	28.873902675503	Nominal Dec [deg]
roll_nom	265.05801021884	Nominal Roll [deg]
revision	3	Processing version of data
ontime	63860.0	Sum of GTIs [s]
livetime	62828.605610301	Livetime [s]
ontime4	63854.917939901	Sum of GTIs [s]
ontime5	63860.0	Sum of GTIs [s]
ontime6	63860.0	Sum of GTIs [s]
ontime7	63860.0	Sum of GTIs [s]
ontime8	63860.0	Sum of GTIs [s]
ontime9	63860.0	Sum of GTIs [s]
l2events	786155	Number of level 2 events



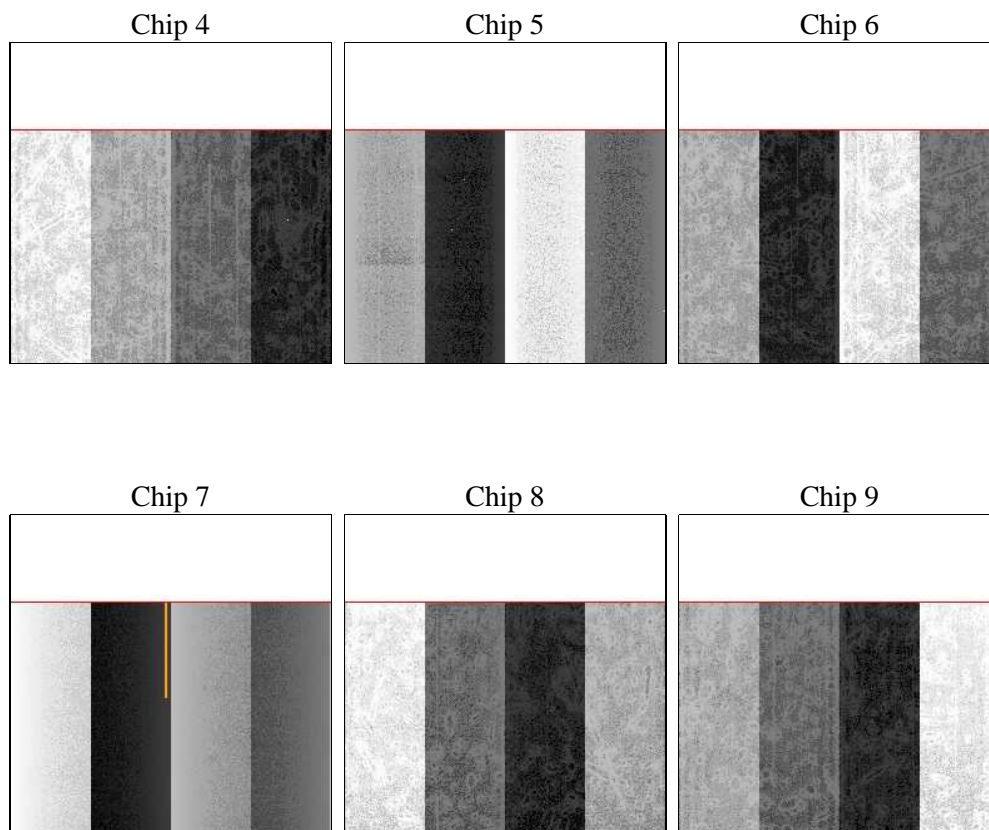
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	63700.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	63860.0	Sum of GTIs [s]
caldsver	4.5.5	 	ontime4	63854.917939901	Sum of GTIs [s]
date	2012-12-23T19:10:47	Date and time of file creation	ontime5	63860.0	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	63860.0	Sum of GTIs [s]
			ontime7	63860.0	Sum of GTIs [s]
			ontime8	63860.0	Sum of GTIs [s]
			ontime9	63860.0	Sum of GTIs [s]
			l1events	2626223	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	355775	489297	411394	514436	506539	348782	grade 0 events	25907	28344	90871	32693	93618	28035
rejected events	304608	251140	279913	265062	315408	264928		7%	5%	22%	6%	18%	8%
rejected %	85%	51%	68%	51%	62%	75%	grade 1 events	230	561	419	988	535	192
								0%	0%	0%	0%	0%	0%
							grade 2 events	10373	70910	17996	53644	29772	40011
								2%	14%	4%	10%	5%	11%
							grade 3 events	4382	13216	6858	23992	18916	4452
								1%	2%	1%	4%	3%	1%
							grade 4 events	4240	12786	6590	23901	17273	4219
								1%	2%	1%	4%	3%	1%
							grade 5 events	13263	35194	14454	42715	19101	14984
								3%	7%	3%	8%	3%	4%
							grade 6 events	6845	115262	9734	116863	33271	7896
								1%	23%	2%	22%	6%	2%
							grade 7 events	290535	213024	264472	219640	294053	248993
								81%	43%	64%	42%	58%	71%

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	115.811498	115.8250581172915	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	28.898419	28.87390267550303	Subarray start row	1	1
[deg] Pointing Roll	264.907938	265.0580102188403	Subarray row count	747	747
[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	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	232633089.184000	232631854.53007			
Observation start date	2005-05-16T12:17:05	2005-05-16T11:57:34			
[s] Observation end time (MET)	232696789.184000	232697757.42057			
Observation end date	2005-05-17T05:58:45	2005-05-17T06:15:57			
Read mode	TIMED	TIMED			

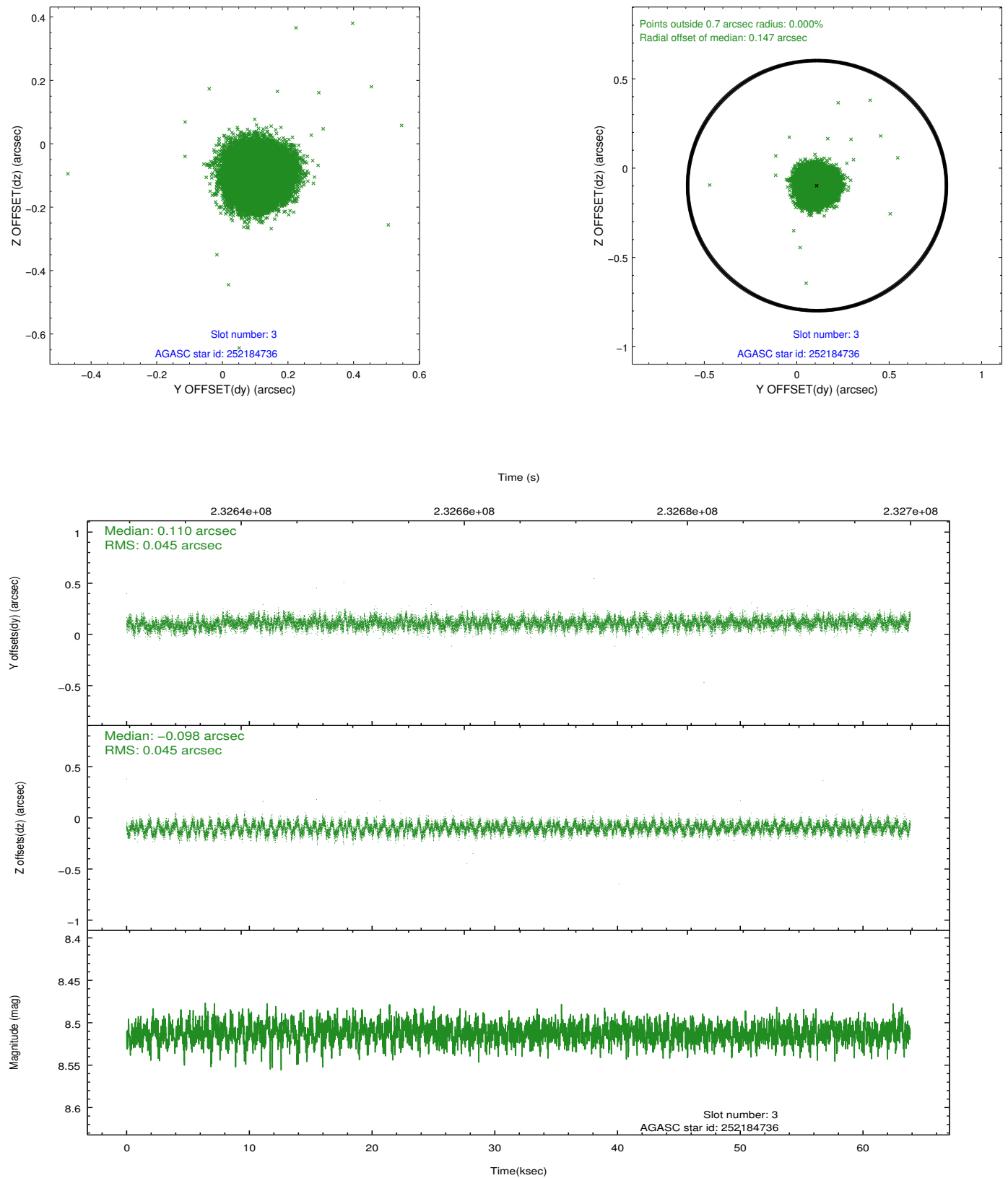
2.3 Aspect

Slot Statistics

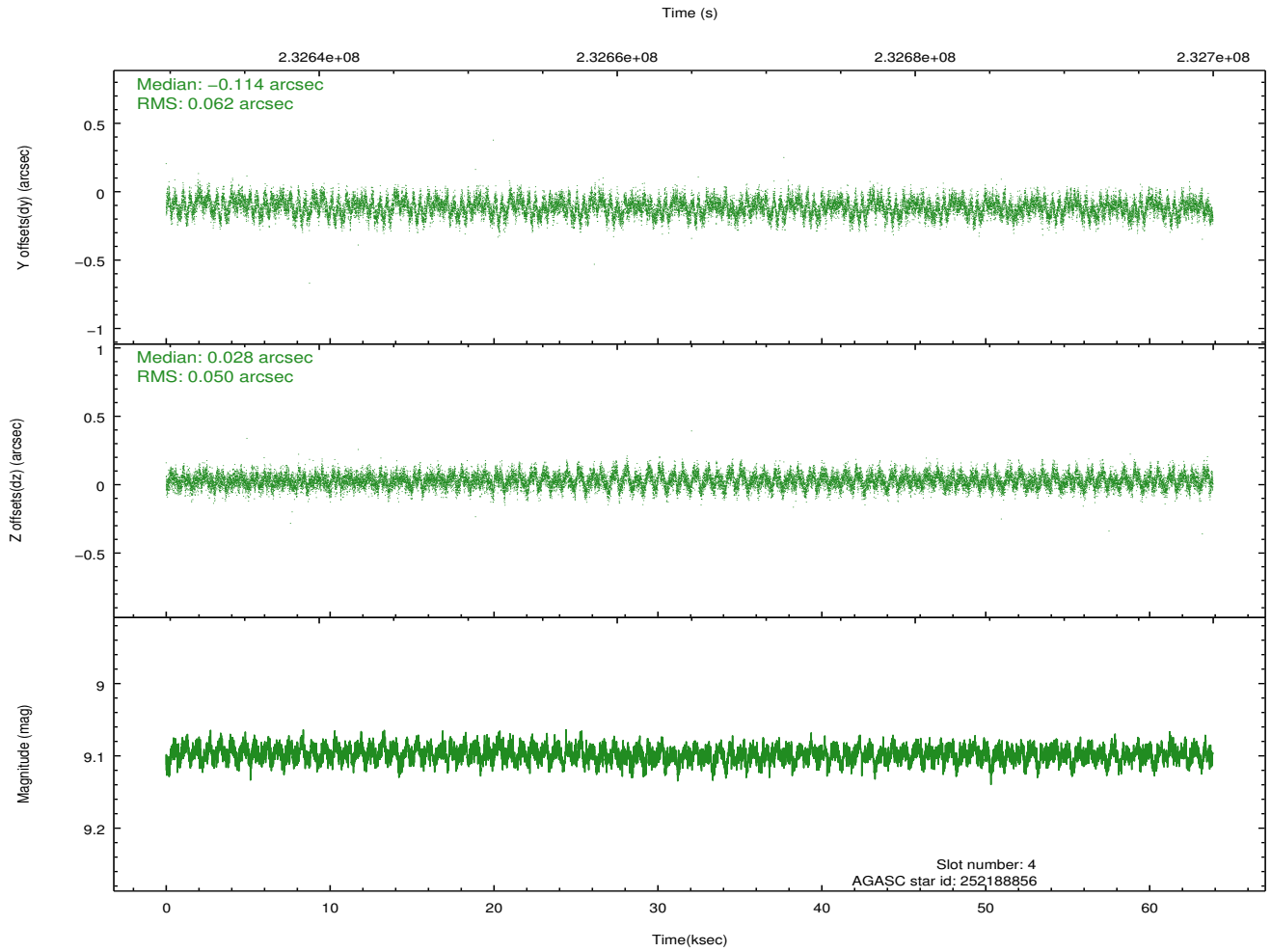
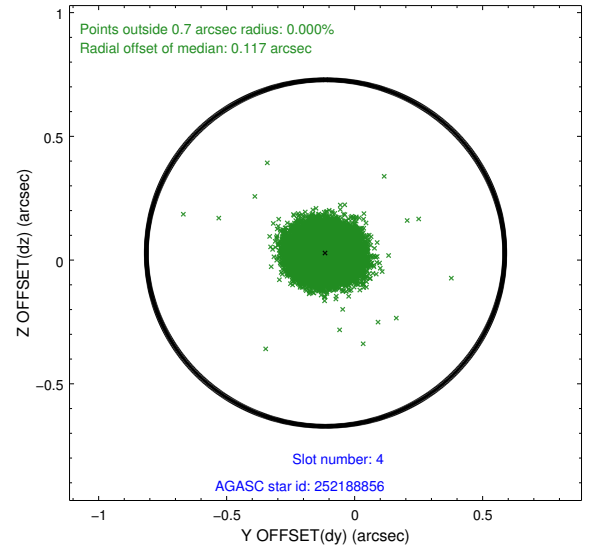
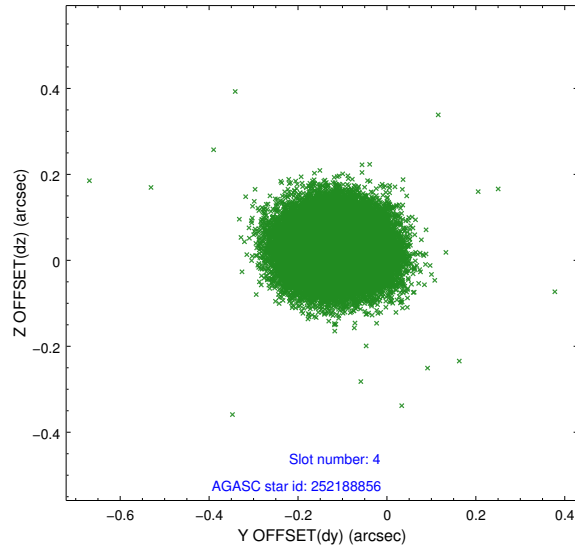
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	15578	0.080	0.037	0.010	0.030	0.000000	0.000000	937.22	-1790.43
1	FID	ACIS-S-2	7.09	15578	-0.081	-0.111	0.012	0.043	0.000000	0.000000	-758.87	-1795.09
2	FID	ACIS-S-5	7.23	15576	-0.022	0.079	0.014	0.029	0.000000	0.000000	-1812.03	107.19
3	GUIDE	252184736	8.51	31148	0.110	-0.098	0.069	0.107	115.841049	28.337104	2004.79	272.87
4	GUIDE	252188856	9.10	31149	-0.114	0.028	0.086	0.134	115.995799	29.406043	-1871.77	413.64
5	GUIDE	252192288	9.05	31147	-0.007	0.122	0.163	0.233	116.362333	28.752504	365.06	1778.29
6	GUIDE	252194776	9.29	31142	0.031	-0.079	0.098	0.159	115.244419	29.434716	-1769.05	-1942.66
7	GUIDE	252196488	7.03	31154	-0.026	0.031	0.062	0.097	115.667880	28.833856	271.77	-430.26

2.4 Star Slots

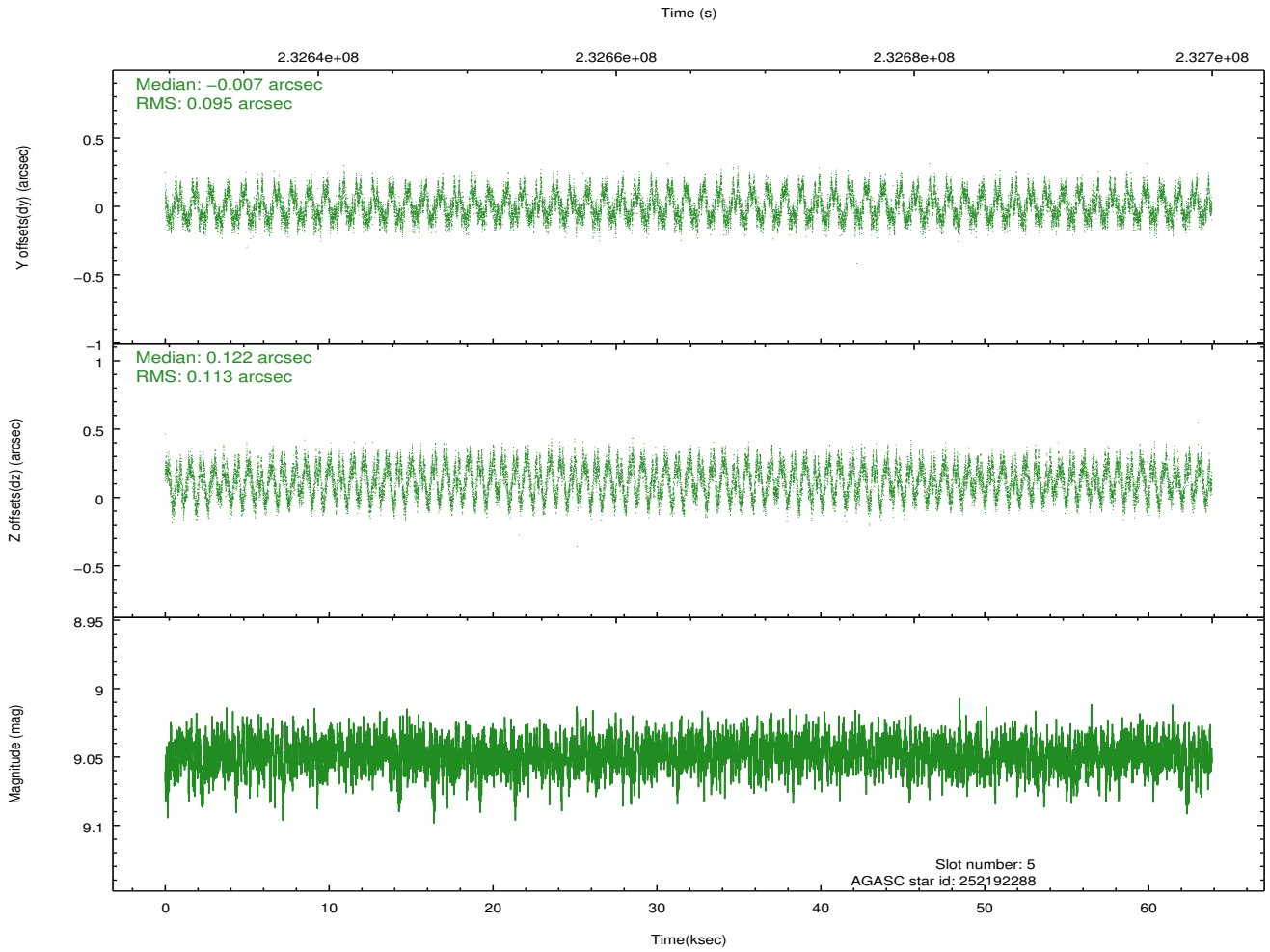
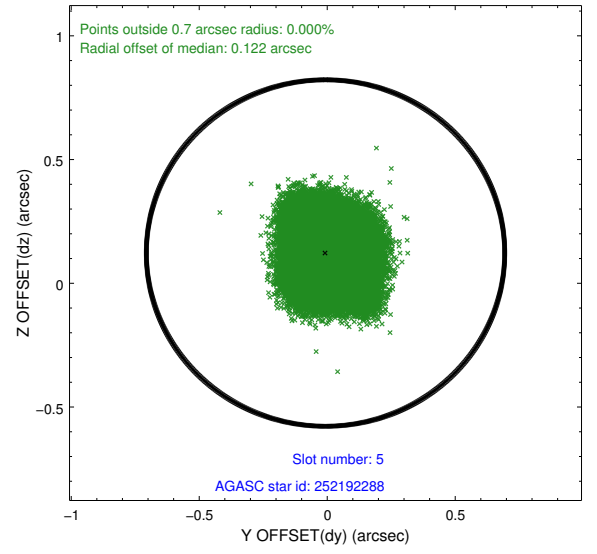
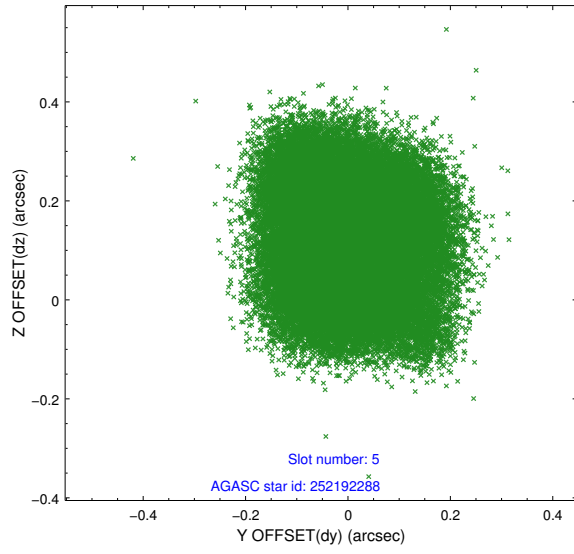
2.4.1 Slot 3



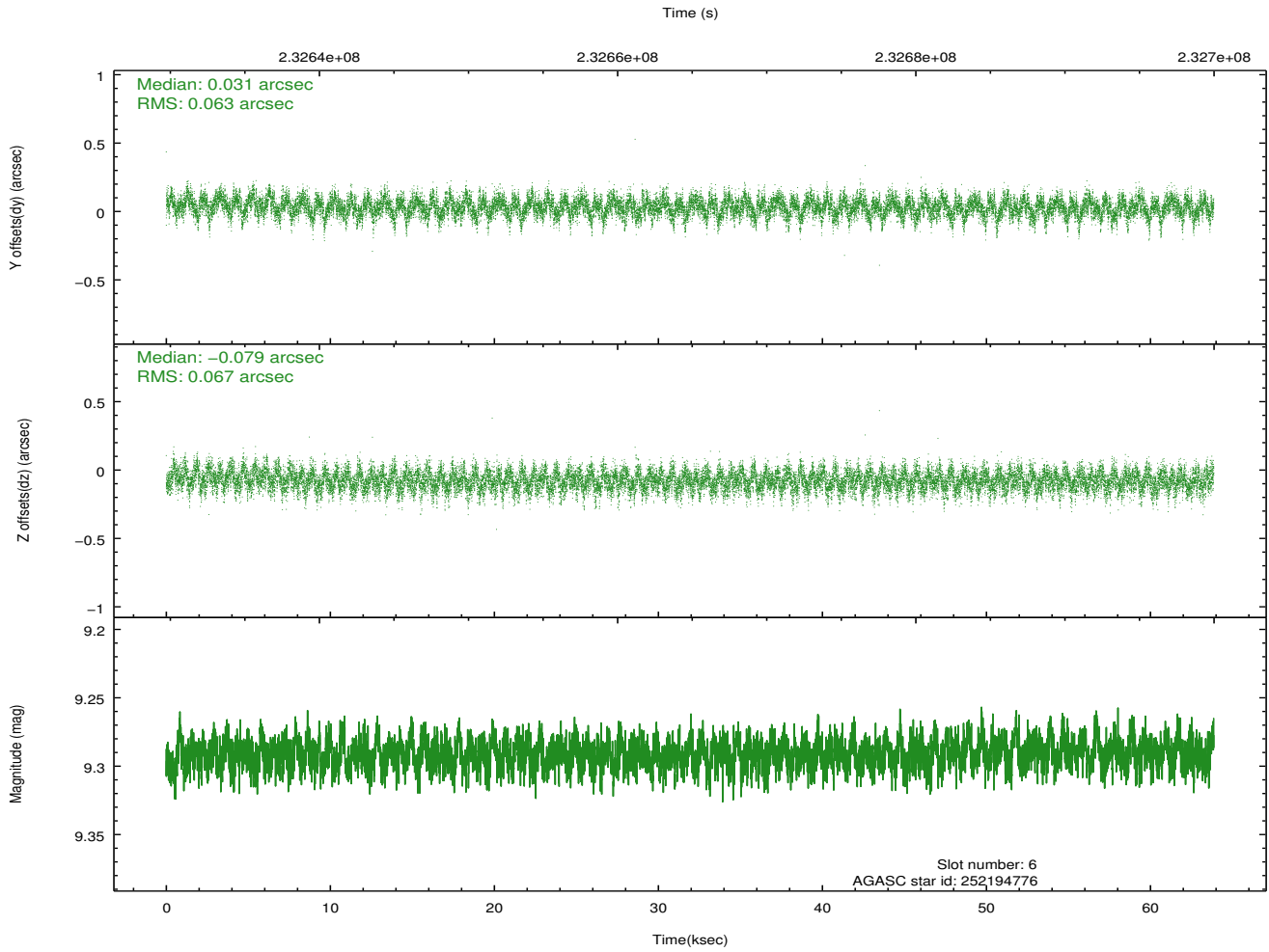
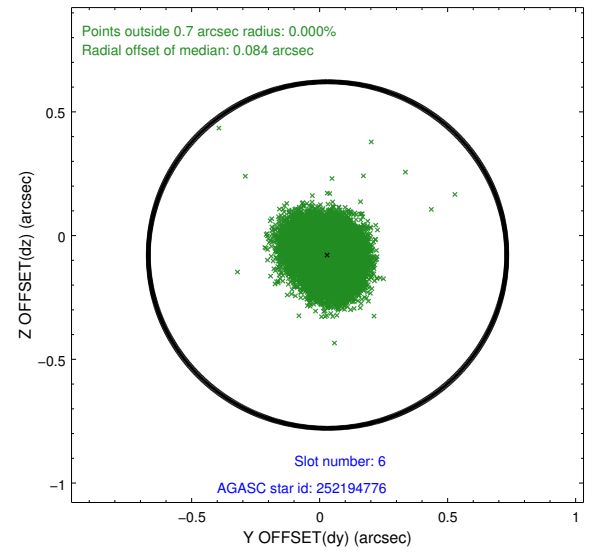
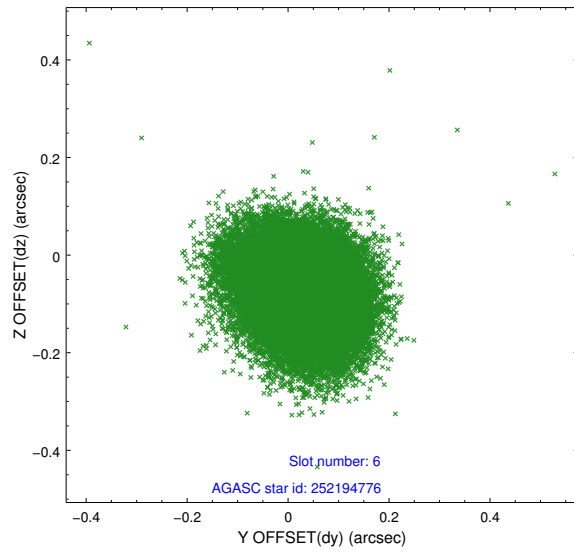
2.4.2 Slot 4



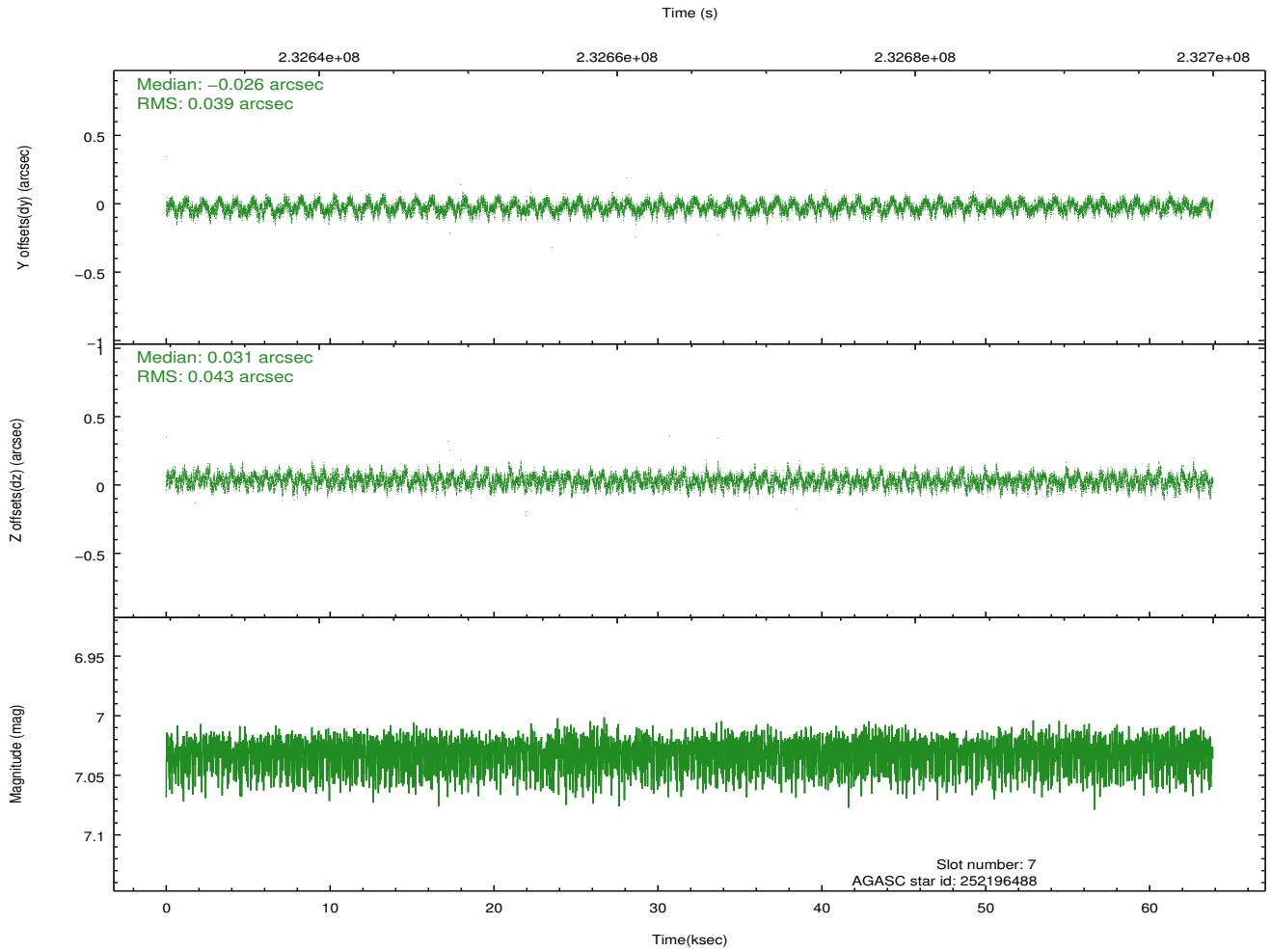
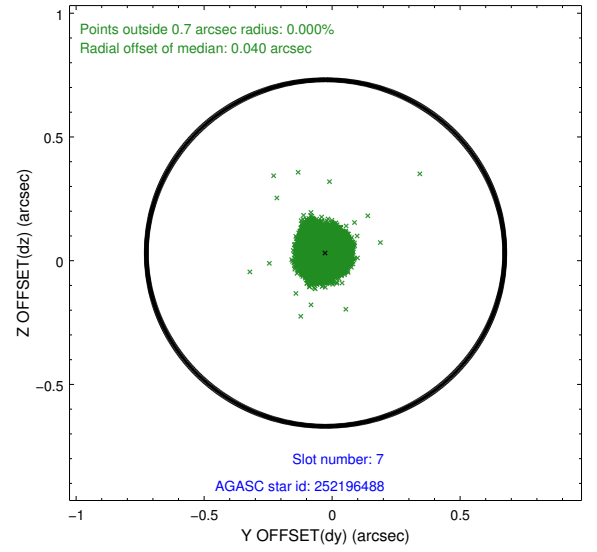
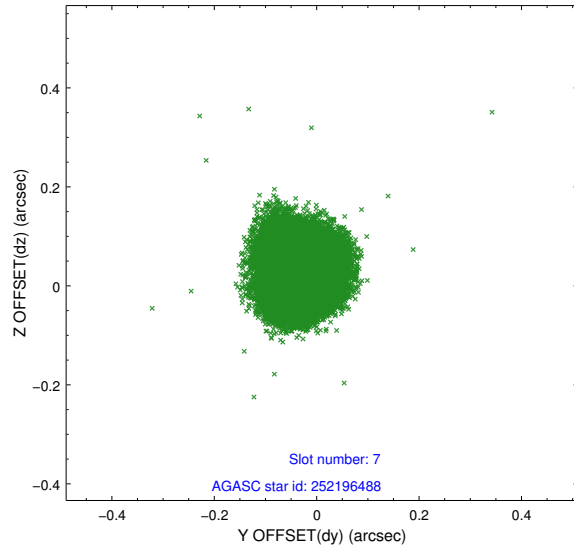
2.4.3 Slot 5



2.4.4 Slot 6

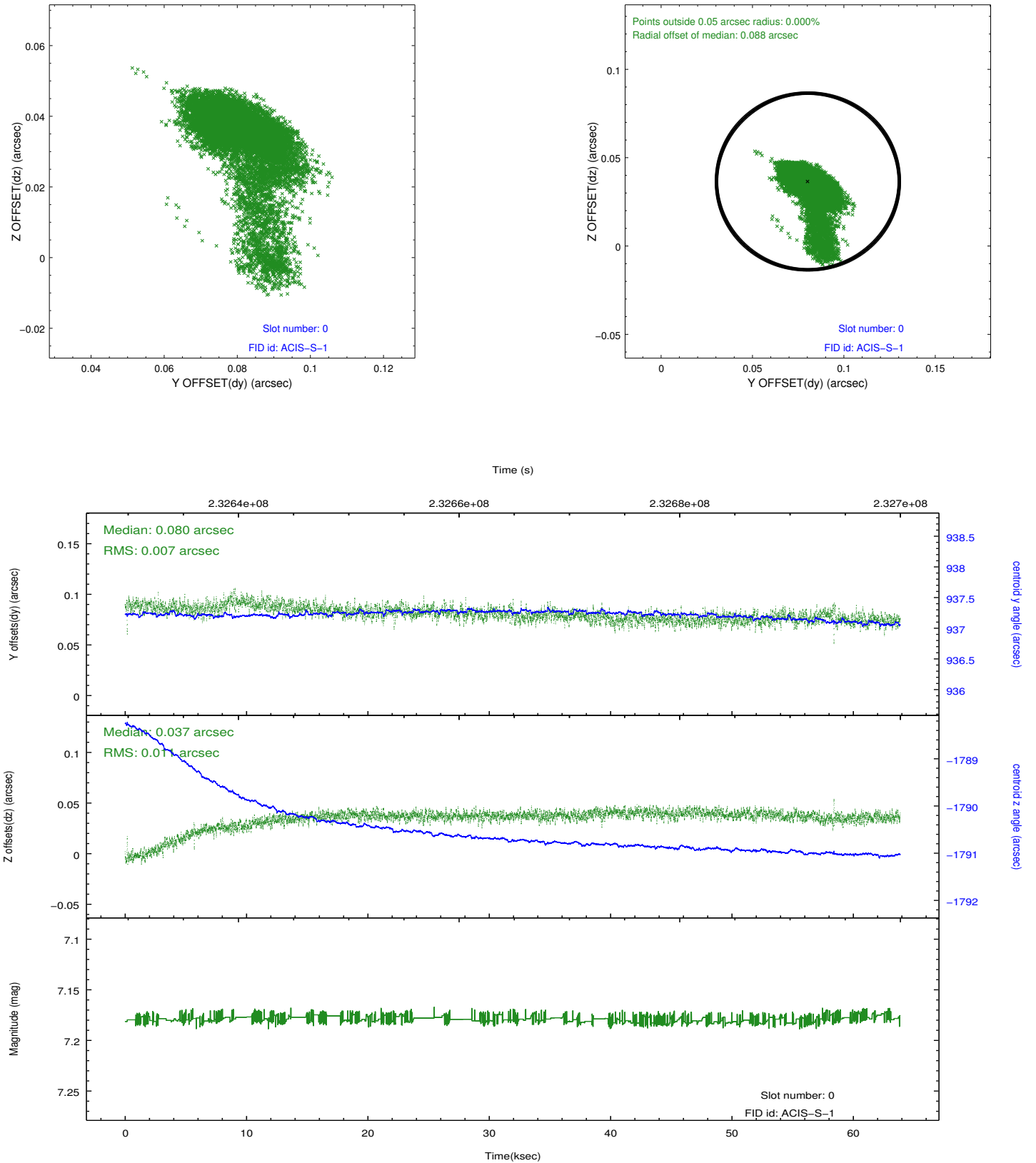


2.4.5 Slot 7

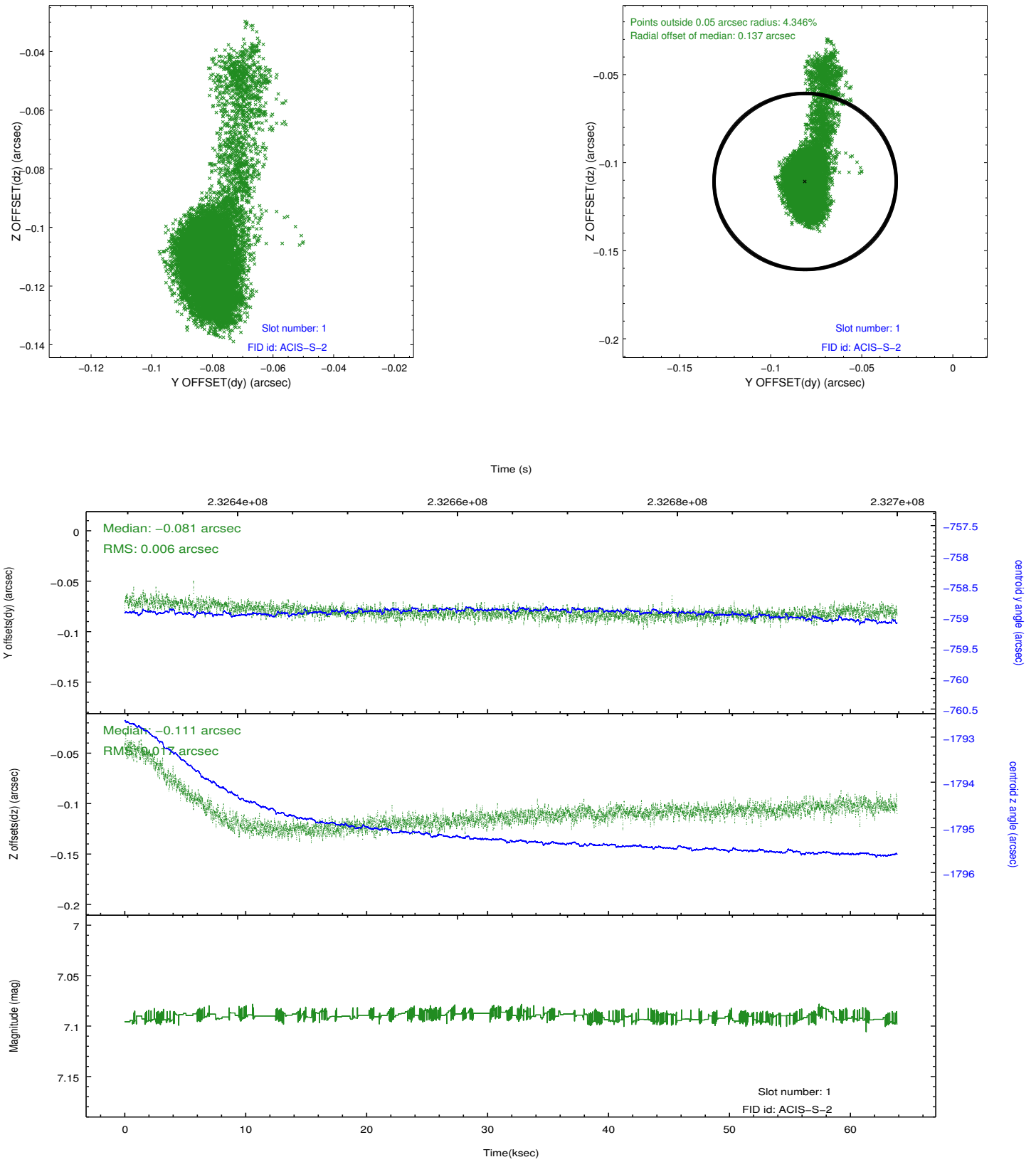


2.5 FID Slots

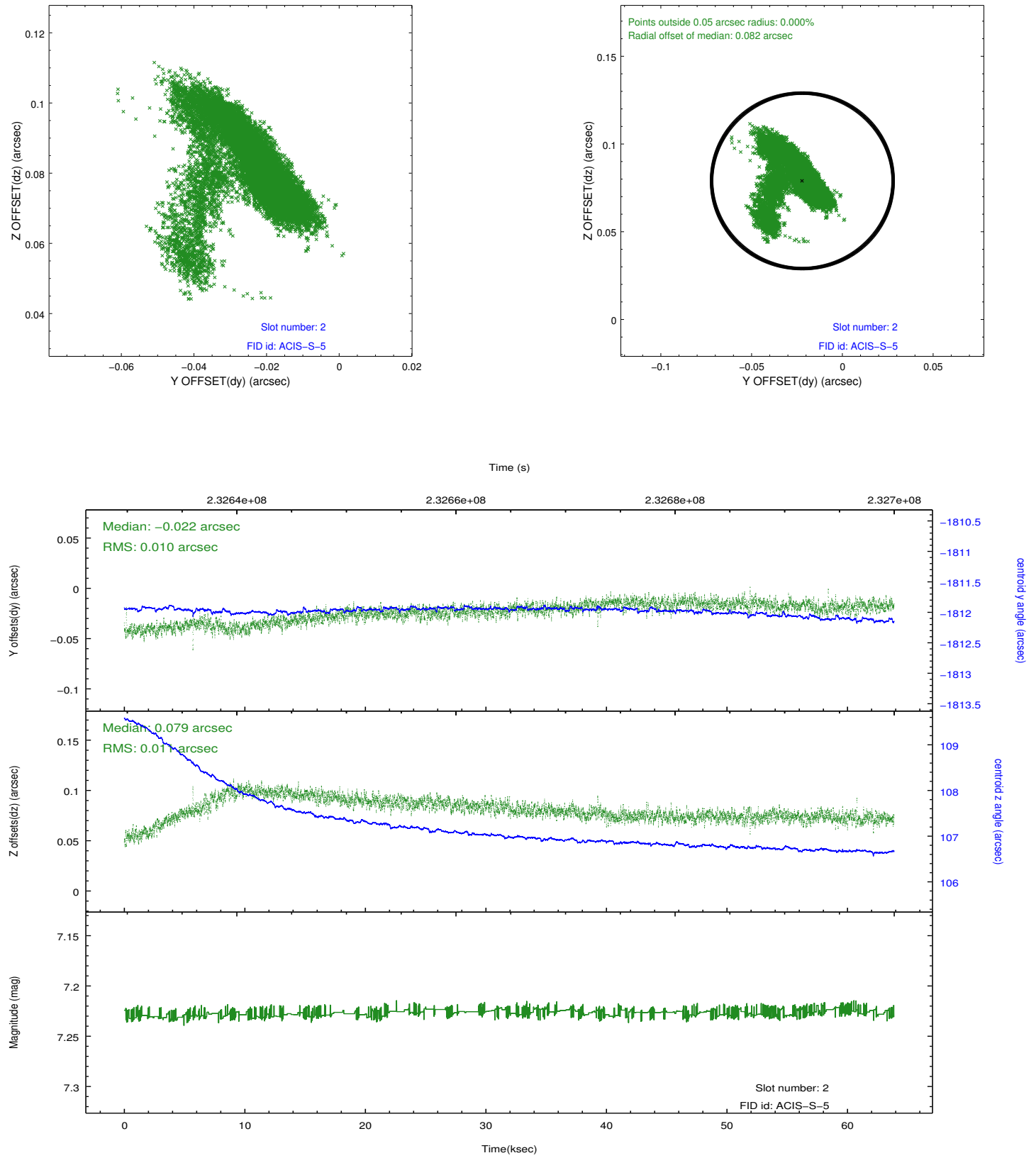
2.5.1 Slot 0



2.5.2 Slot 1

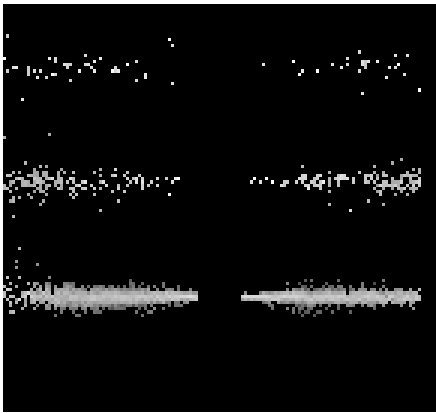


2.5.3 Slot 2

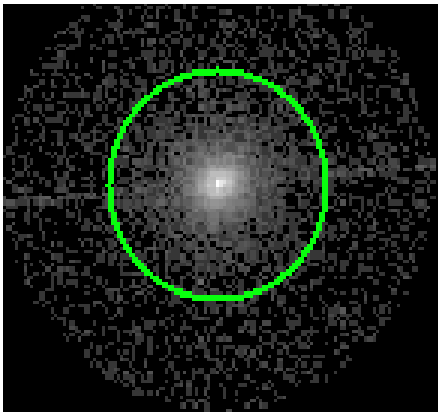


3 Gratings

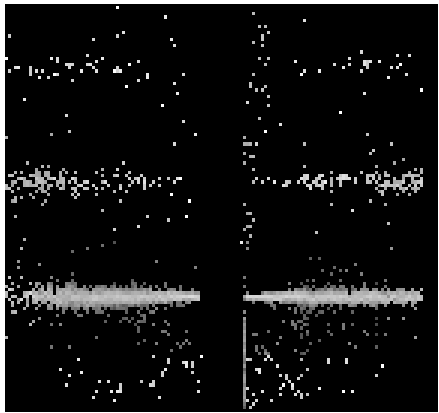
3.1 HEG Arm



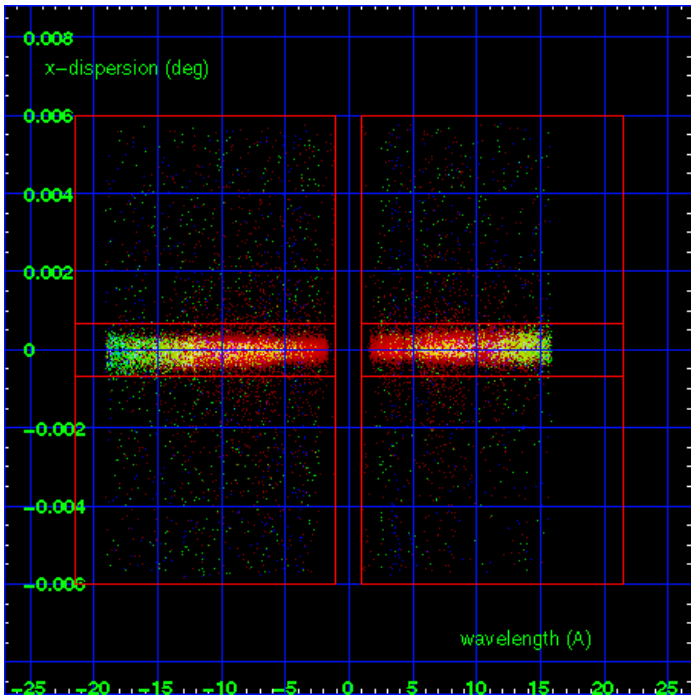
HEG Order Sort 123



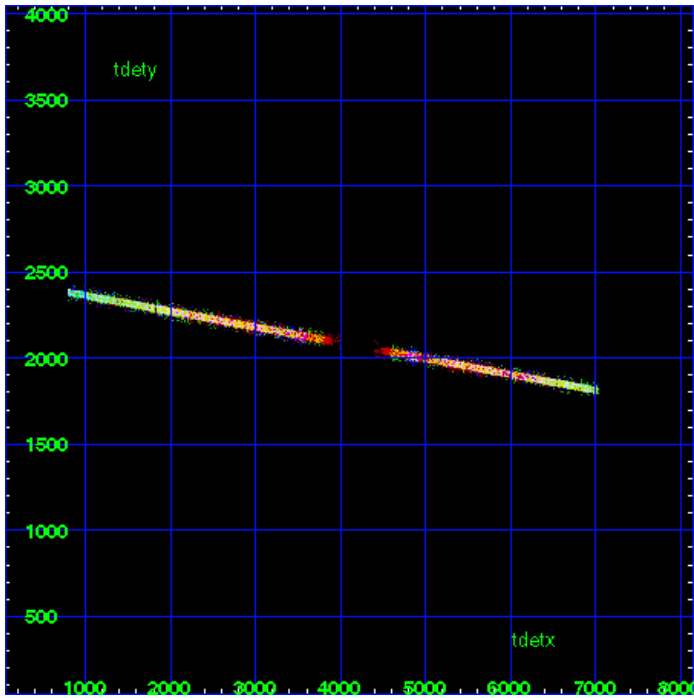
HEG Zero Order



HEG Order Sort ALL

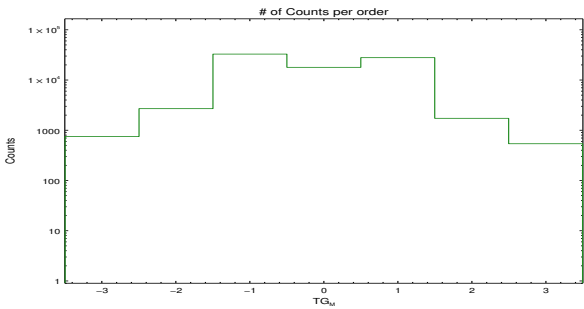


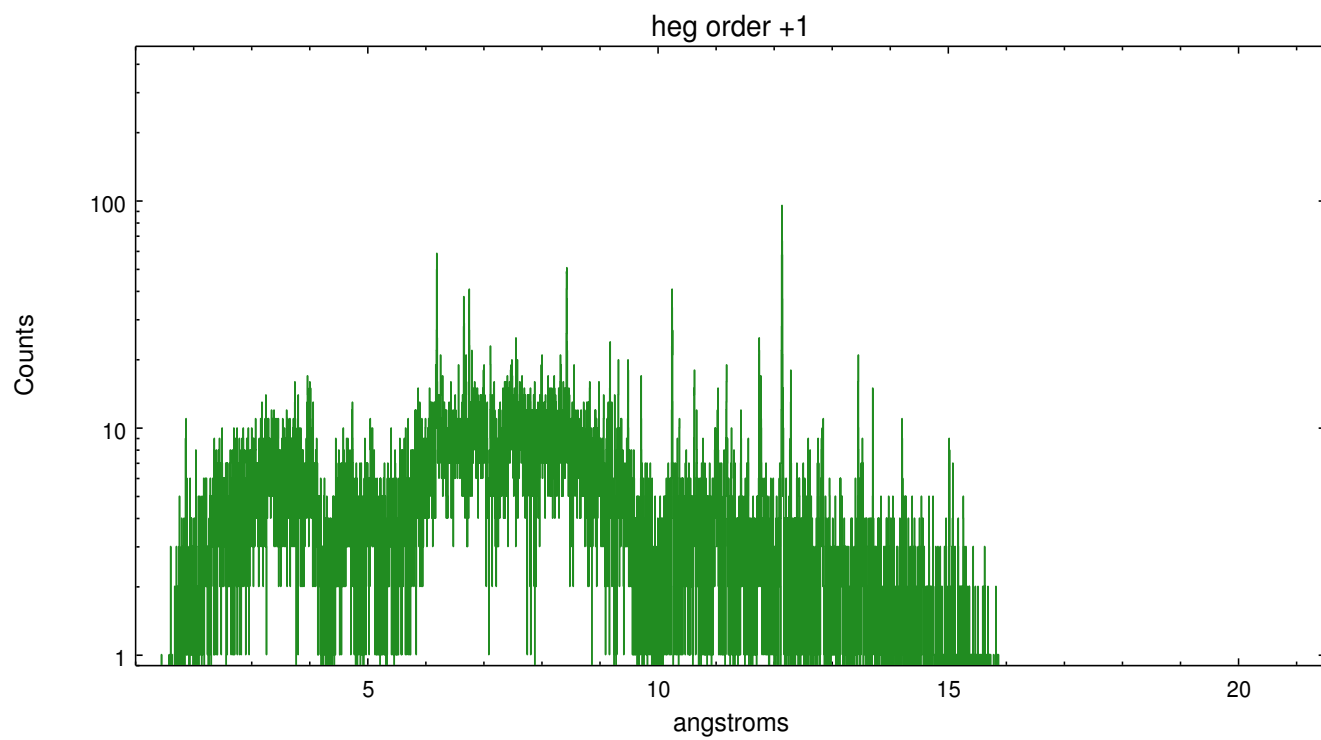
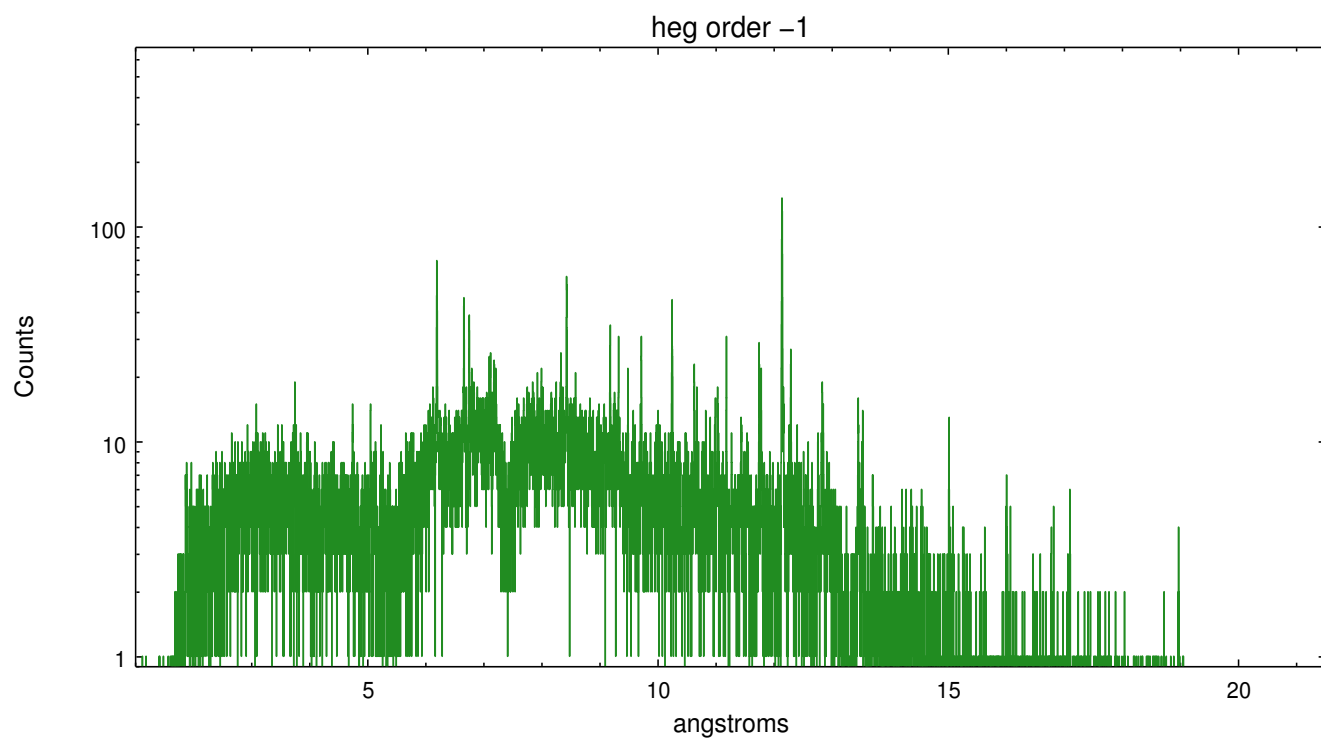
Spot Image HEG



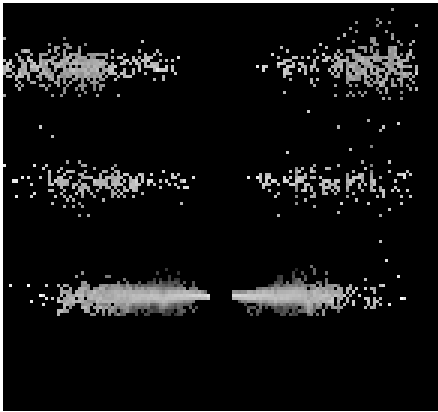
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	752	2704	33085	18003	28108	1733	540

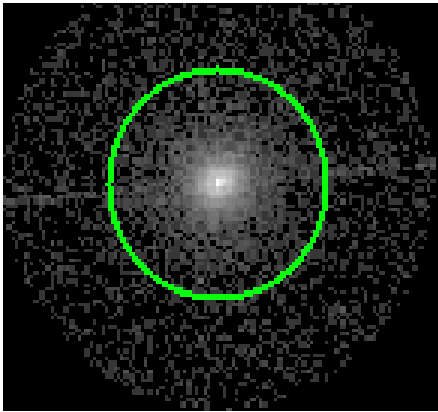




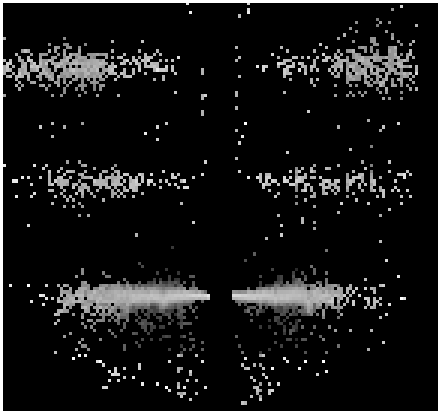
3.2 MEG Arm



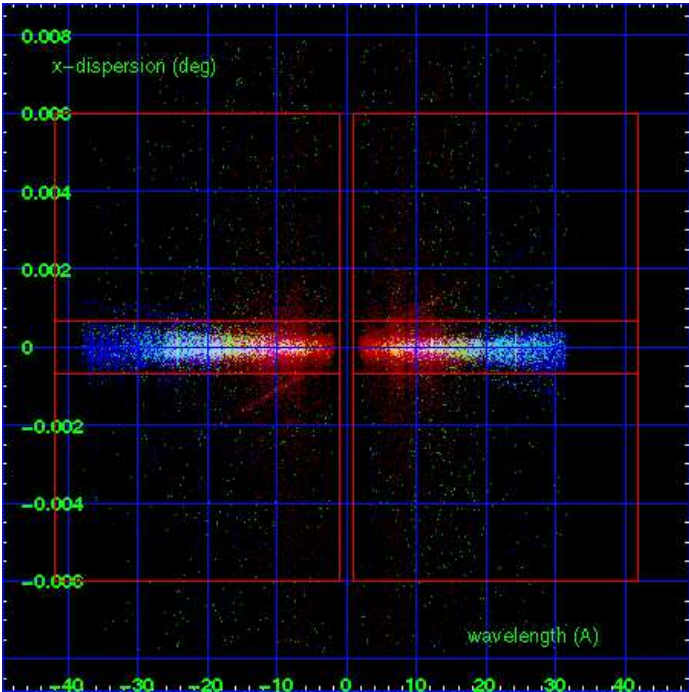
MEG Order Sort 123



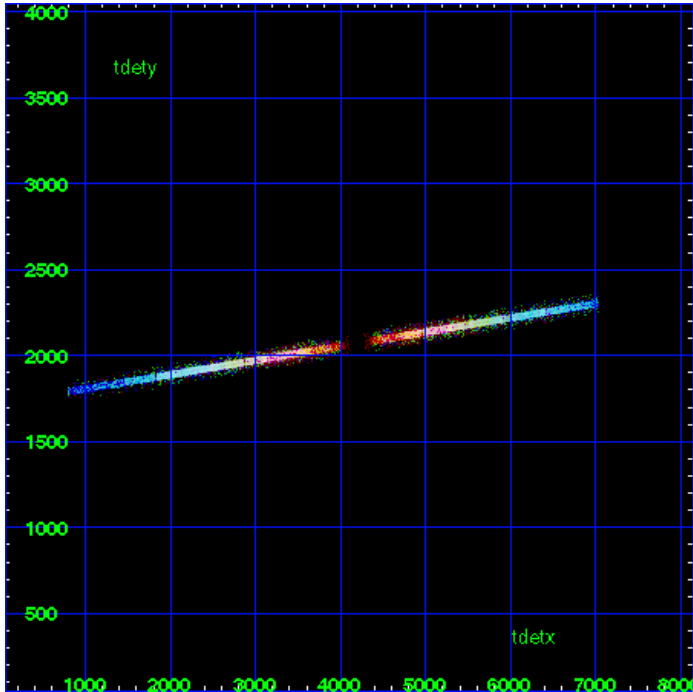
MEG Zero Order



MEG Order Sort ALL

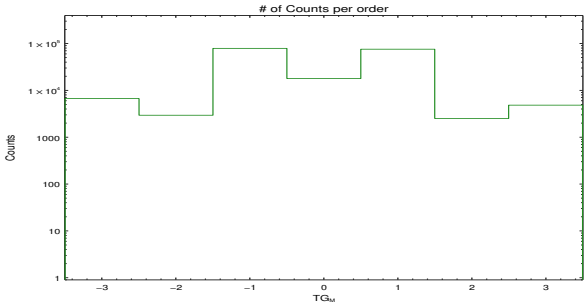


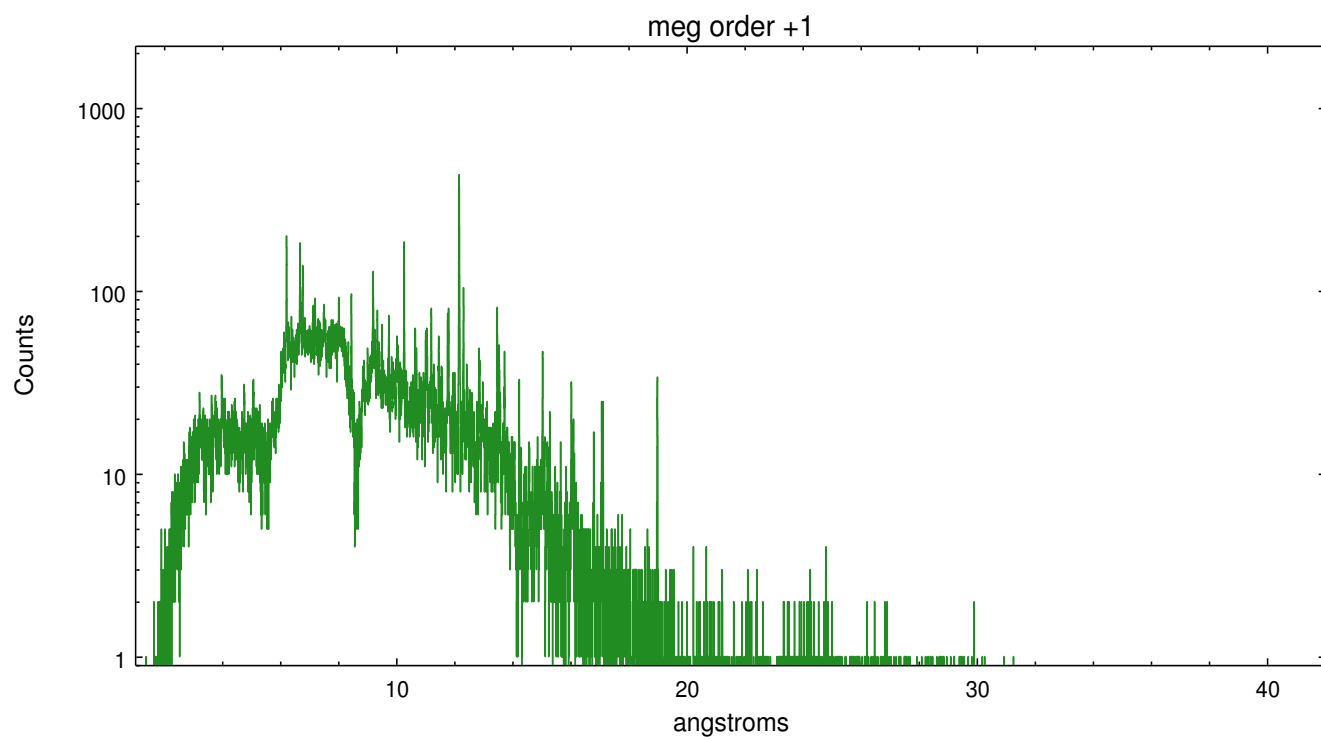
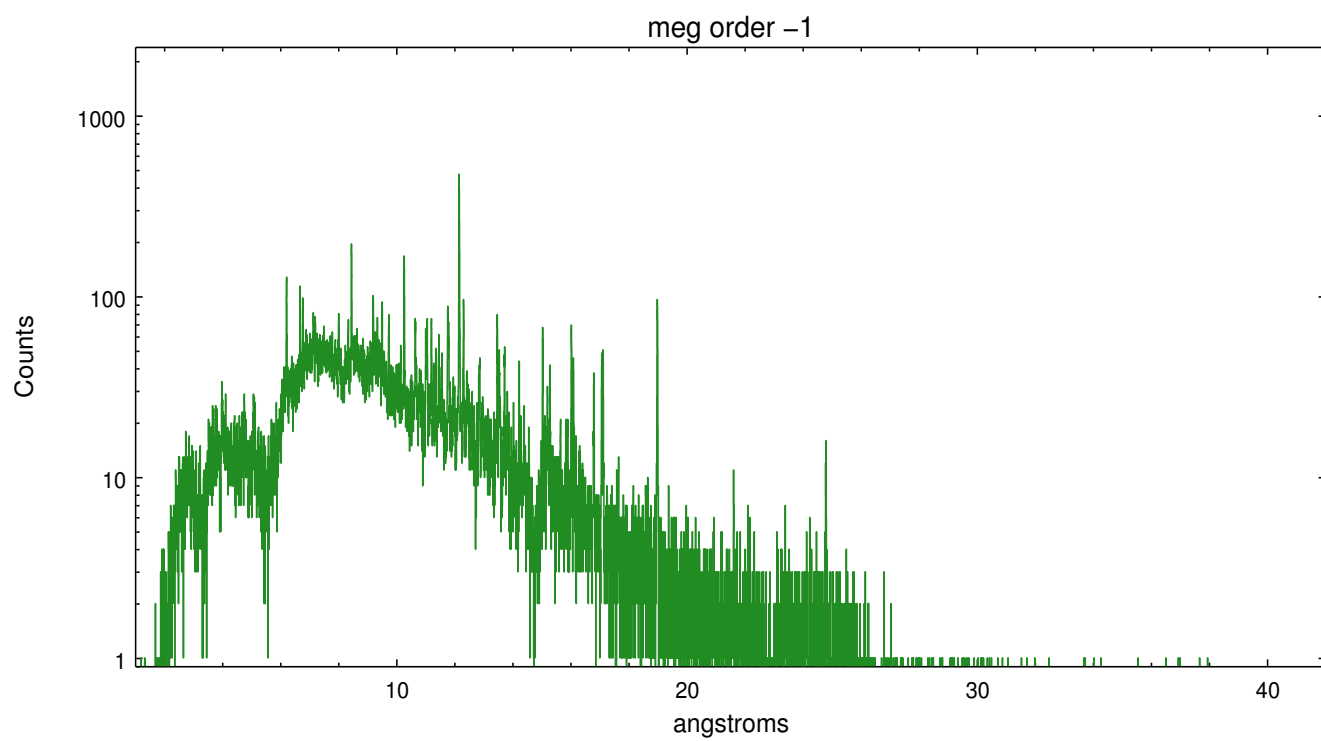
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	6708	2952	79420	18003	76252	2520	4851





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	63.86

A.2 Comments

Zeroth order is piled up.