

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1922 - L2 Version 4
Chandra X-Ray Center

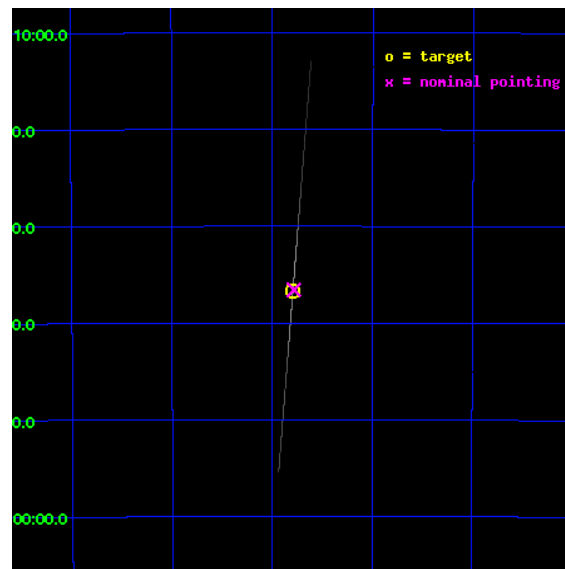
L2 Processing Date : Sep 21 2012

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1 Front

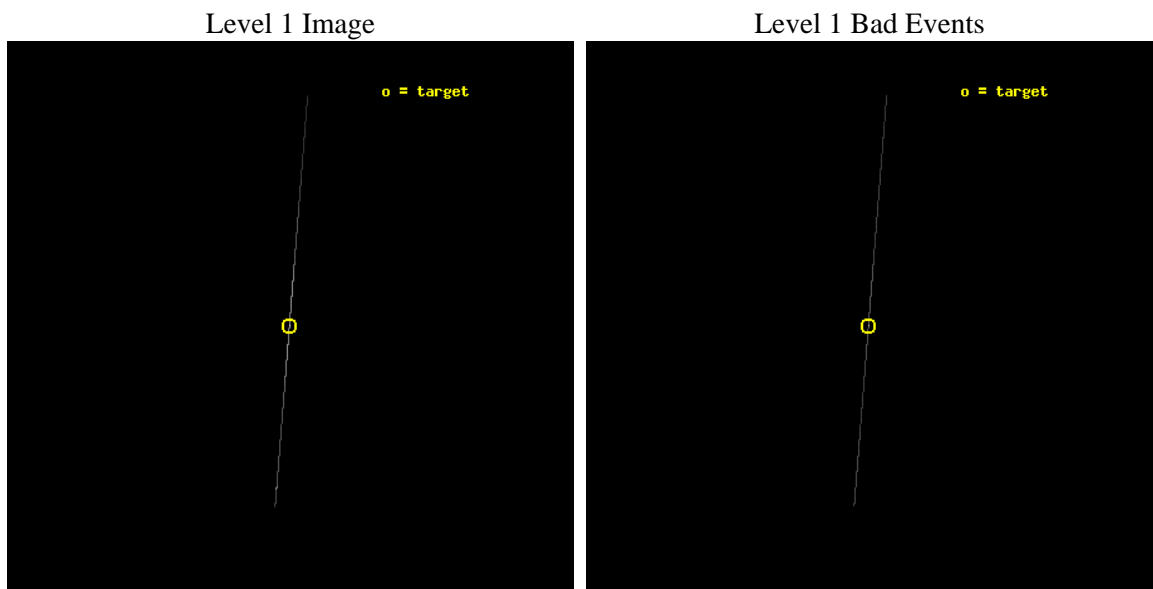
seq_num	400135	Sequence number
obs_id	1922	Observation id
title	DETAILED STUDY OF THE IRON LINE AND LOW ENERGY FEATURES IN Z AND ATOLL SOURCES	Proposal title
observer	Prof. Natale Robba	Principal investigator
object	GX340+0	Source name
ra_targ	251.448333	Observer's specified target RA [deg]
dec_targ	-45.610833	Observer's specified target Dec [deg]
ra_nom	251.44587877647	Nominal RA [deg]
dec_nom	-45.609605029877	Nominal Dec [deg]
roll_nom	274.52814587863	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5844.25	Sum of GTIs [s]
livetime	5821.4208984375	Livetime [s]
ontime5	5844.25	Sum of GTIs [s]
ontime6	5844.25	Sum of GTIs [s]
ontime7	5844.25	Sum of GTIs [s]
ontime8	5844.25	Sum of GTIs [s]
ontime9	5844.25	Sum of GTIs [s]
l2events	734514	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	4771.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5844.25	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime5	5844.25	Sum of GTIs [s]
date	2012-09-21T13:04:57	Date and time of file creation	ontime6	5844.25	Sum of GTIs [s]
revision	4	Processing version of data	ontime7	5844.25	Sum of GTIs [s]
			ontime8	5844.25	Sum of GTIs [s]
			ontime9	5844.25	Sum of GTIs [s]
			l1events	815204	Number of level 1 events

2.1.3 Events

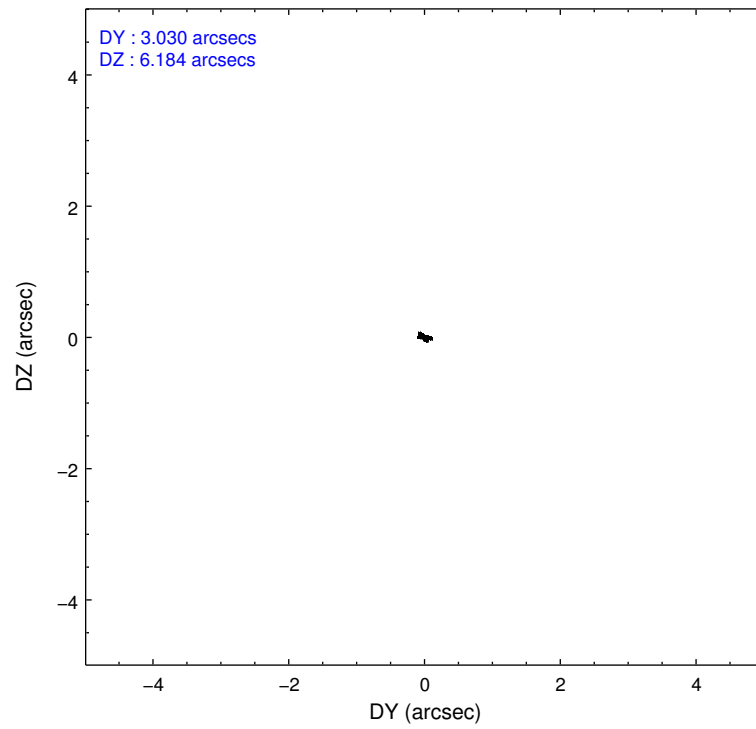
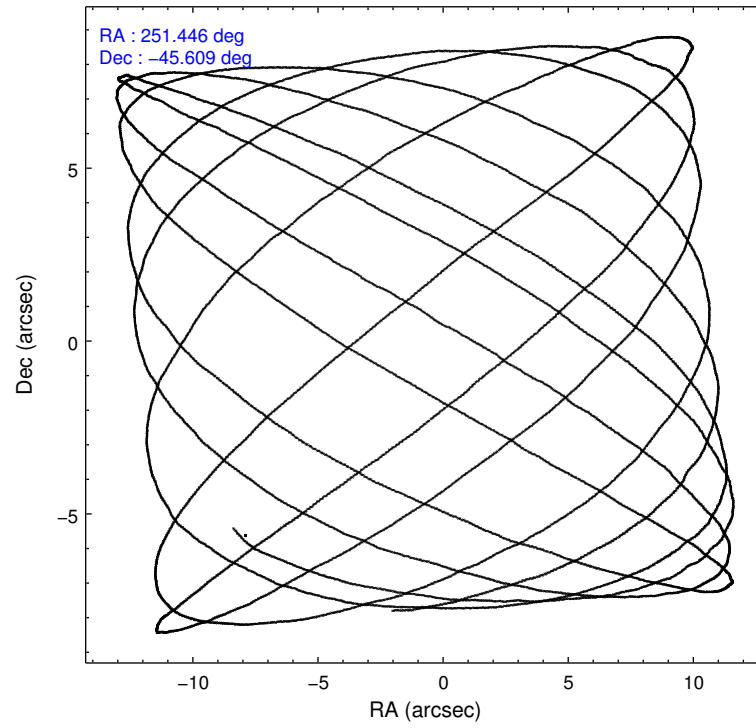
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	54965	158003	552577	38092	11567
rejected events	3020	2474	27973	2187	1537
rejected %	5%	1%	5%	5%	13%

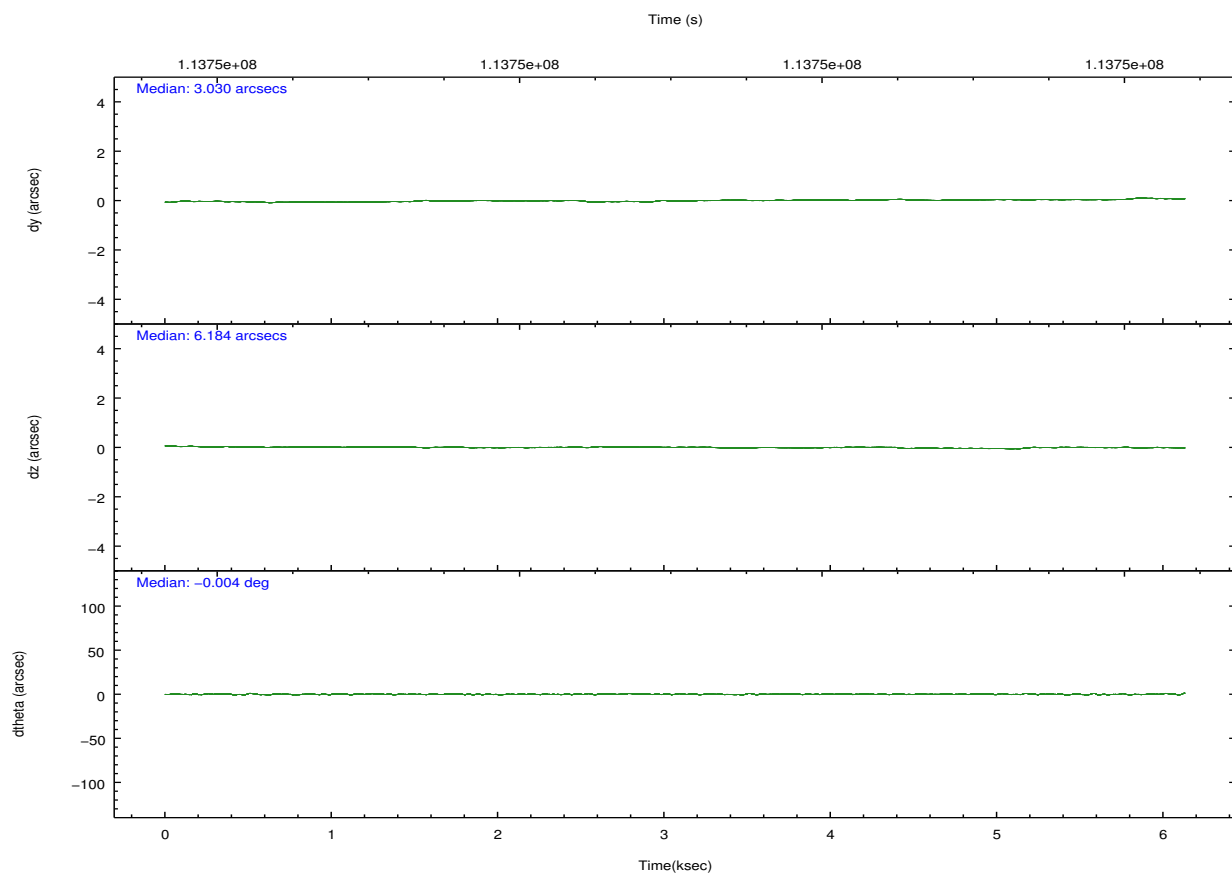
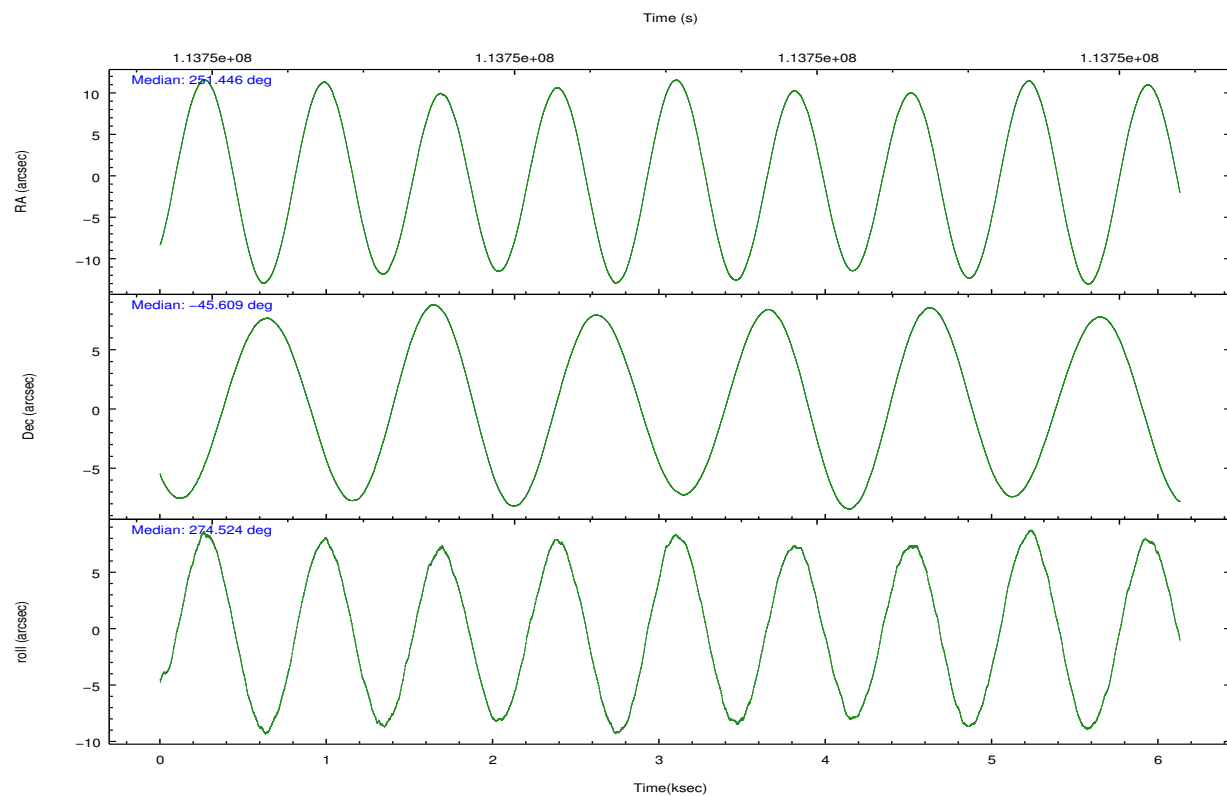
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	15660	18229	74332	12507	1419
	28%	11%	13%	32%	12%
grade 1 events	48	84	3863	76	25
	0%	0%	0%	0%	0%
grade 2 events	15472	110420	144058	13840	4684
	28%	69%	26%	36%	40%
grade 3 events	952	2048	41040	2230	929
	1%	1%	7%	5%	8%
grade 4 events	885	1989	41504	2209	1047
	1%	1%	7%	5%	9%
grade 5 events	2946	2324	23845	2097	1507
	5%	1%	4%	5%	13%
grade 6 events	19002	22909	223935	5133	1956
	34%	14%	40%	13%	16%
grade 7 events	0	0	0	0	0
	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	251.423311	251.4458787764684	Subarray requested	NONE	NONE
[deg] Pointing Dec	-45.587272	-45.60960502987658	Alternating exposures requested	N	N
[deg] Pointing Roll	274.355392	274.5281458786296	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.642523	-182.6398635053184			
[mm] SIM translation stage offset	-7.49	-7.49265907768941			
[s] Observation start time (MET)	113749321.184000	113747774.89056			
Observation start date	2001-08-09T13:00:57	2001-08-09T12:36:14			
[s] Observation end time (MET)	113754092.184000	113754516.82833			
Observation end date	2001-08-09T14:20:28	2001-08-09T14:28:36			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



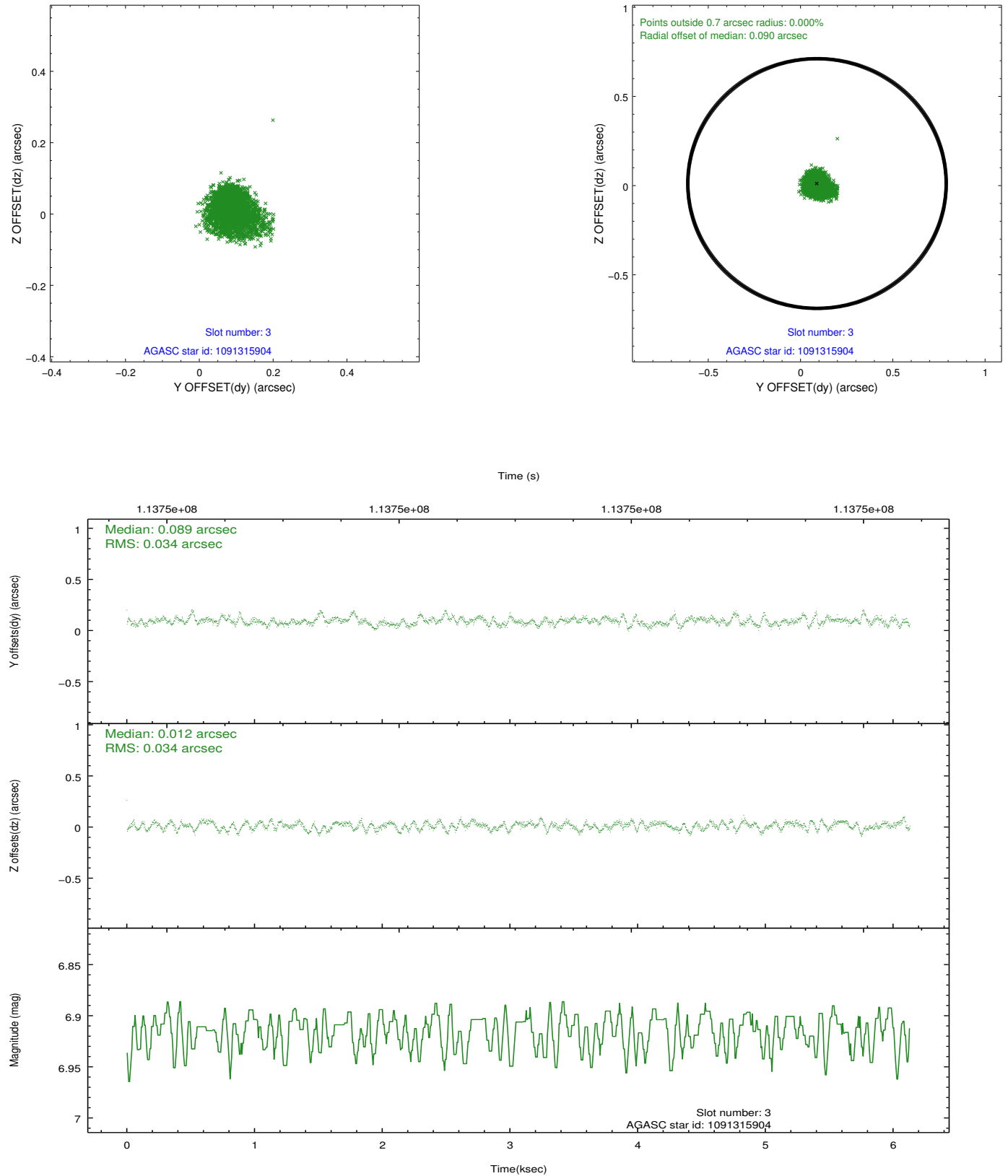


Slot Statistics

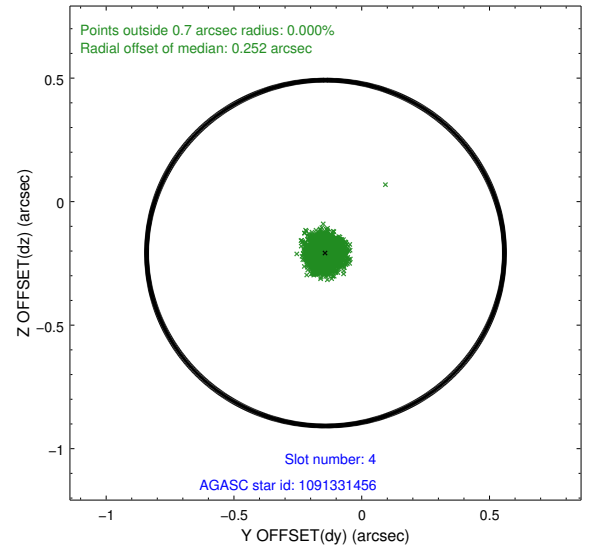
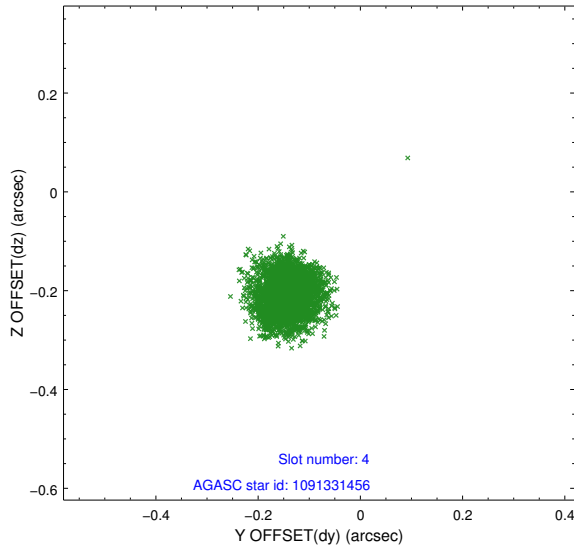
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1496	-0.043	-0.046	0.006	0.010	0.000000	0.000000	-755.18	-1881.74
1	FID	ACIS-S-4	7.19	1496	-0.019	0.033	0.005	0.010	0.000000	0.000000	2157.69	25.71
2	FID	ACIS-S-5	7.23	1496	0.031	0.021	0.007	0.010	0.000000	0.000000	-1806.70	20.47
3	GUIDE	1091315904	6.91	2992	0.089	0.012	0.051	0.083	252.023077	-45.944918	1404.52	1398.50
4	GUIDE	1091331456	7.10	2992	-0.142	-0.208	0.054	0.082	250.457488	-45.368726	-953.66	-2377.16
5	GUIDE	1032728728	7.57	2992	-0.196	0.101	0.056	0.092	252.061735	-44.936530	-2205.51	1798.41
6	GUIDE	1091318704	7.62	2992	-0.022	0.100	0.059	0.096	251.955714	-45.390313	-600.12	1395.83
7	GUIDE	1091341680	8.44	2990	0.270	-0.006	0.061	0.098	251.240217	-46.114317	1858.90	-599.62

2.4 Star Slots

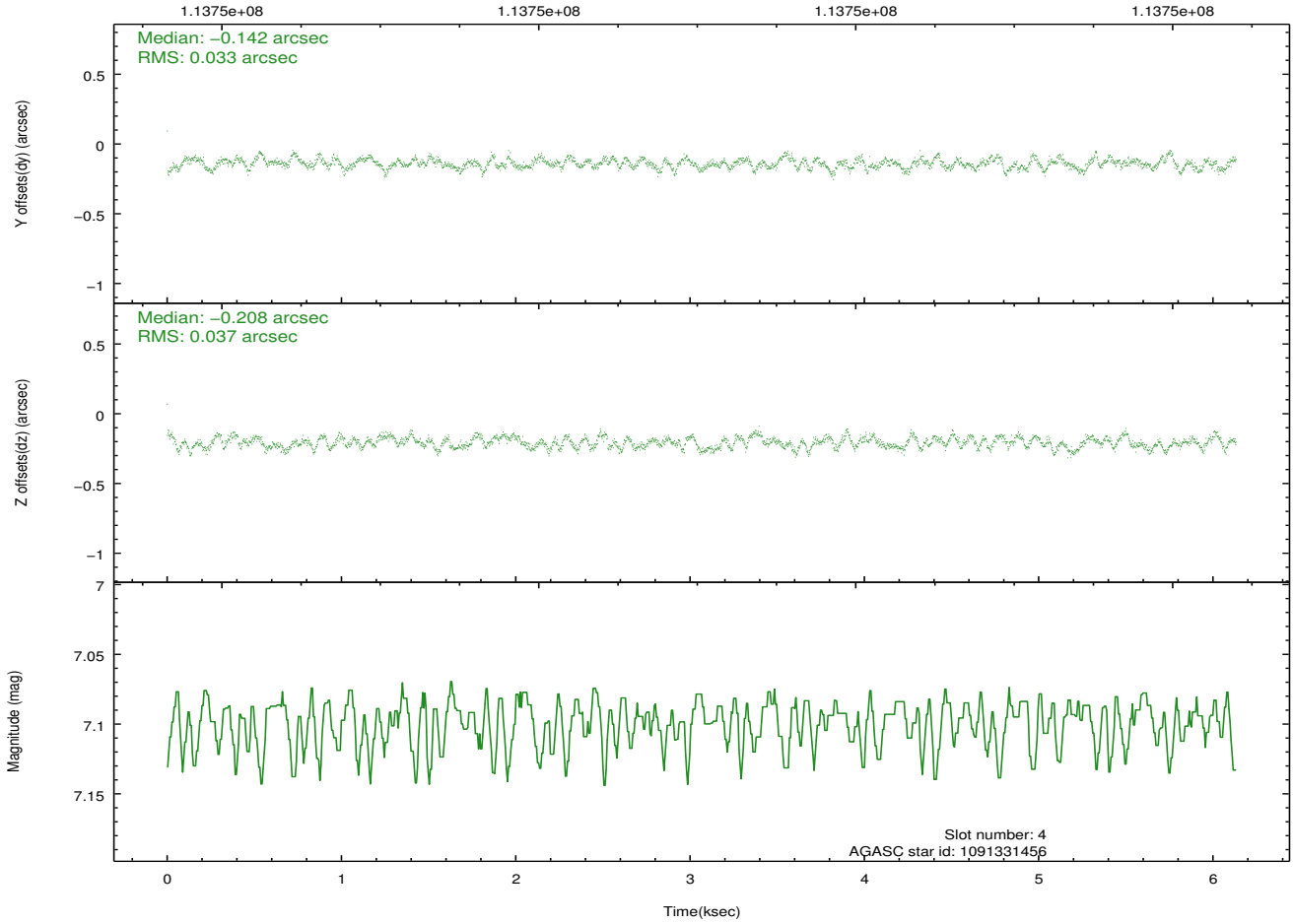
2.4.1 Slot 3



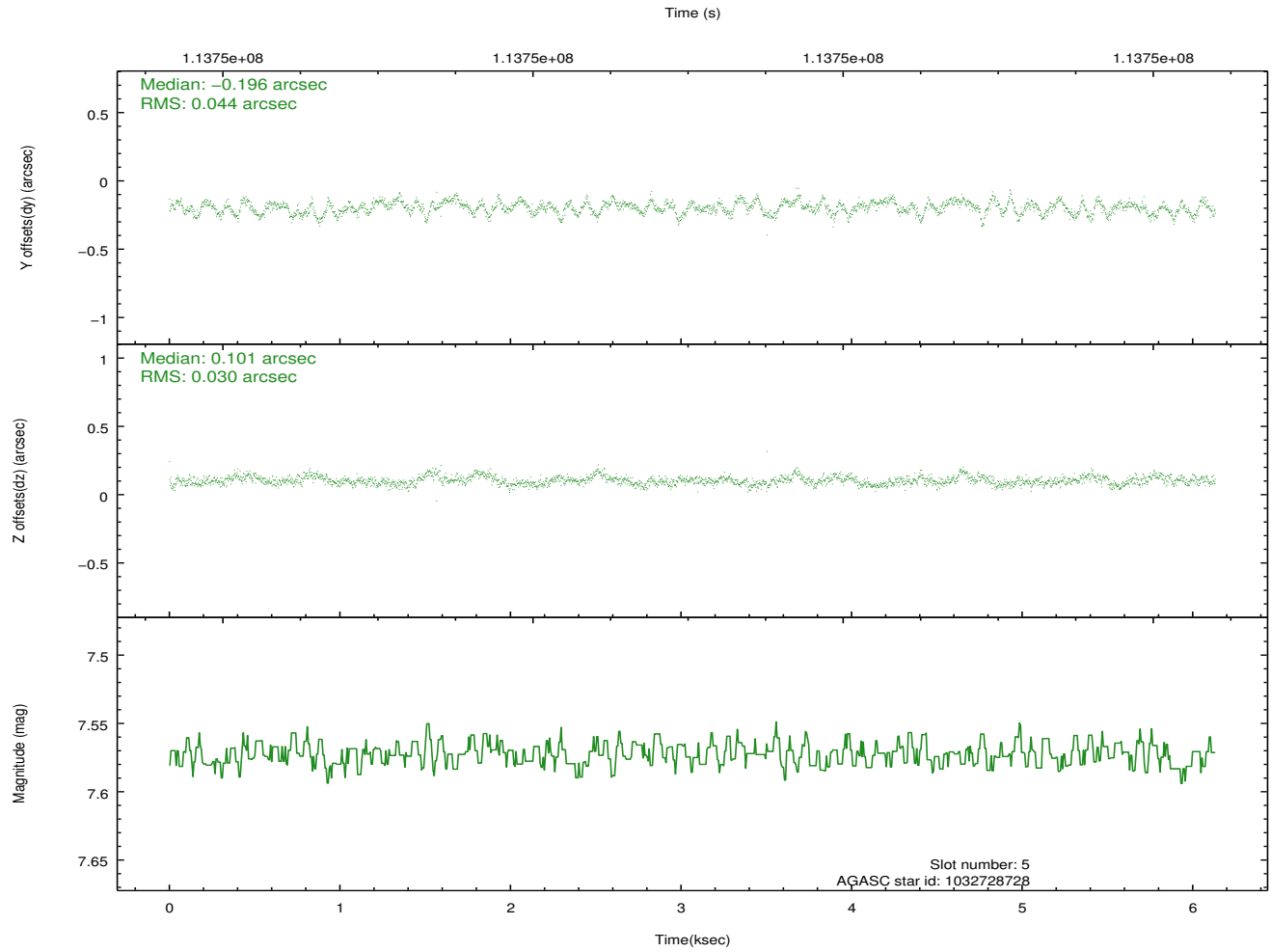
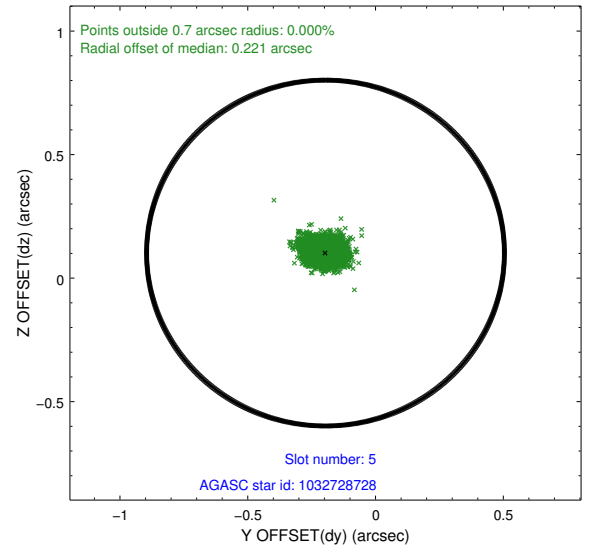
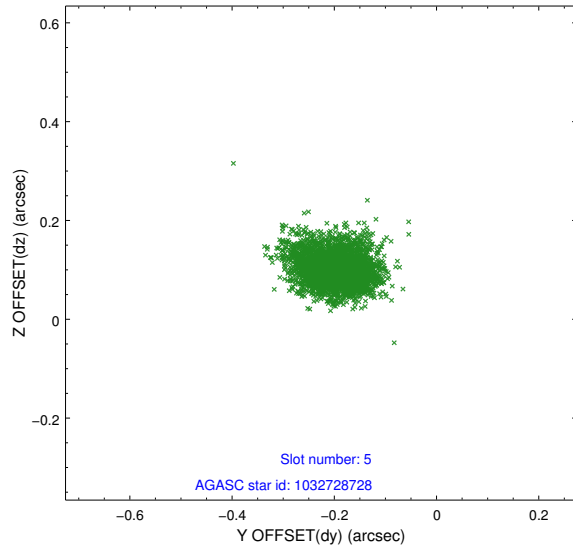
2.4.2 Slot 4



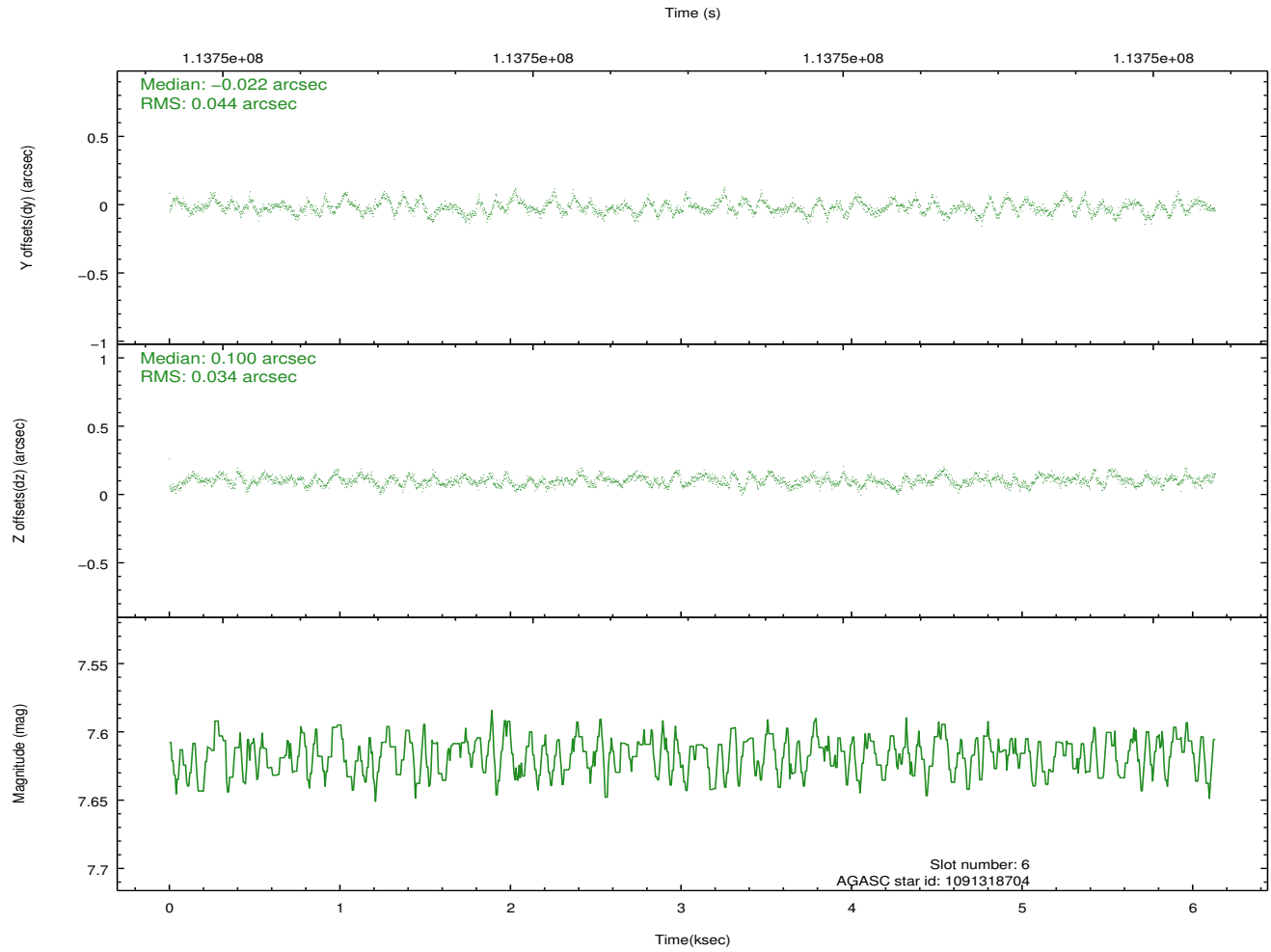
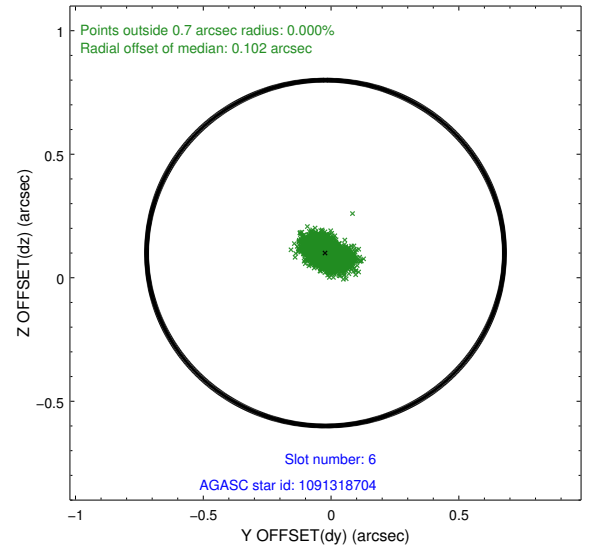
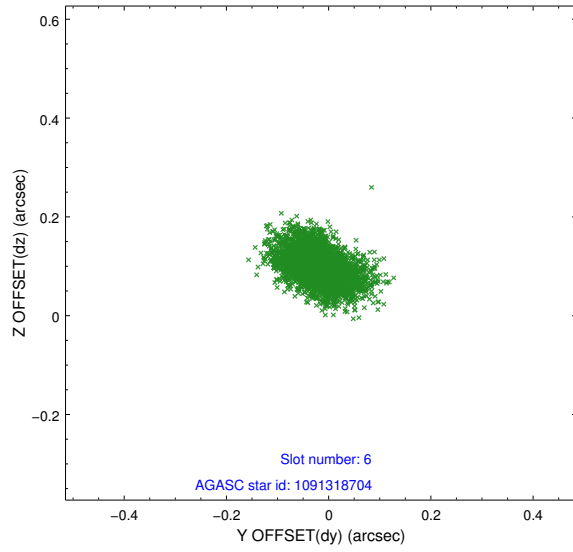
Time (s)



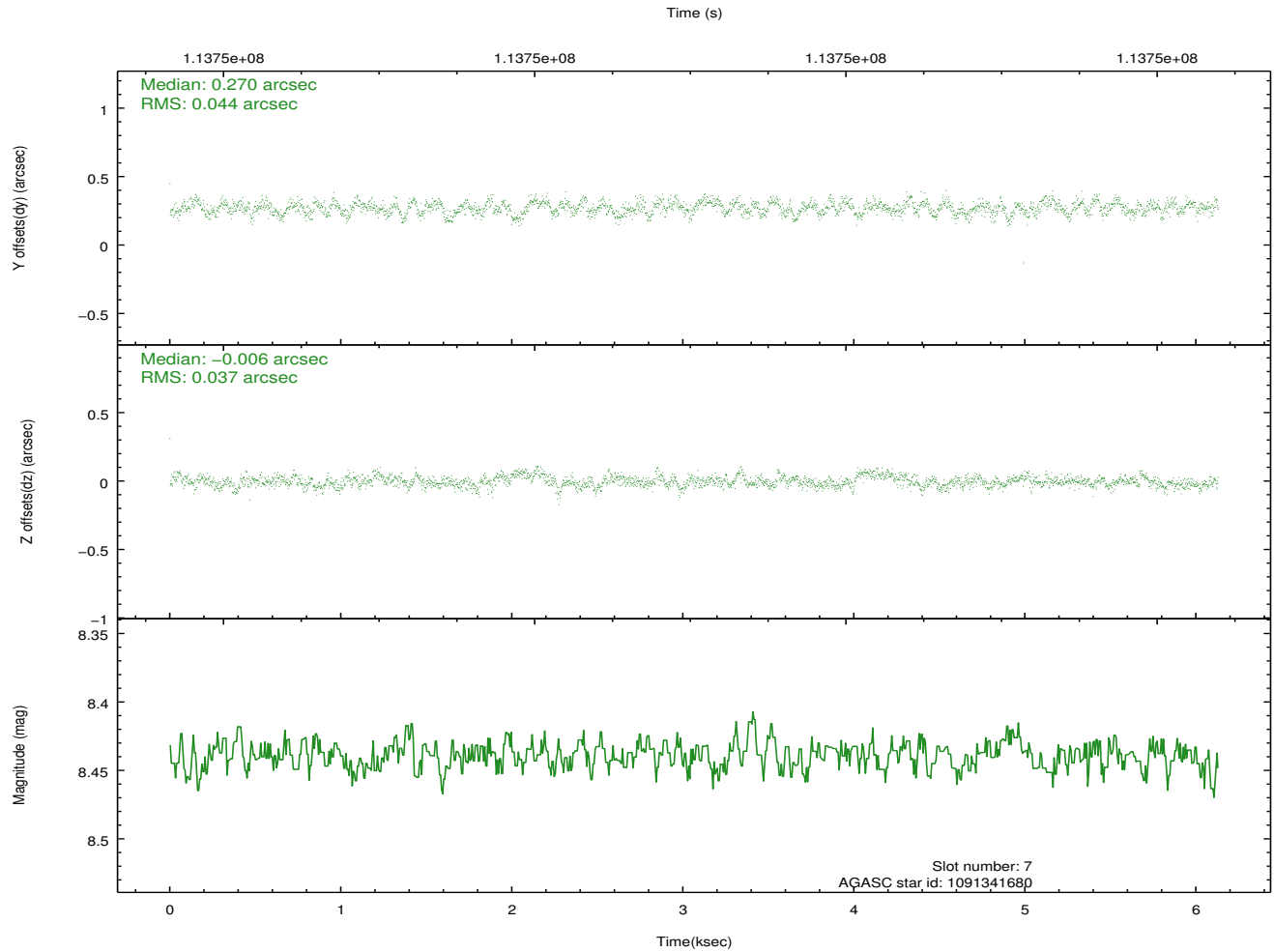
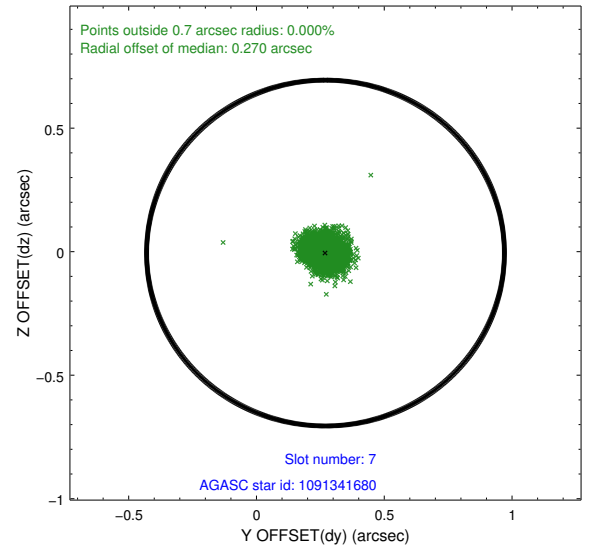
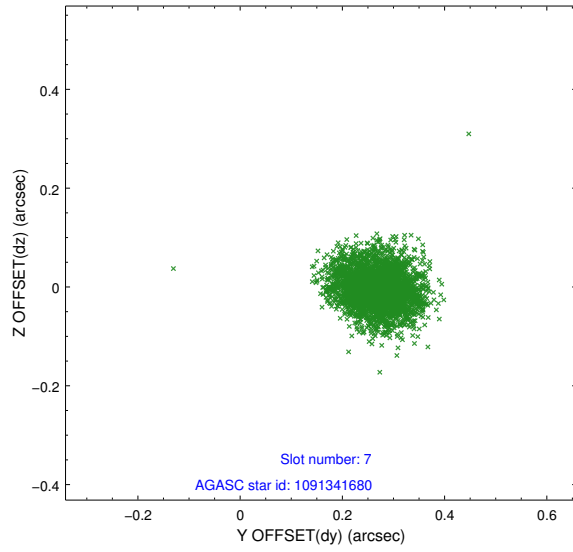
2.4.3 Slot 5



2.4.4 Slot 6

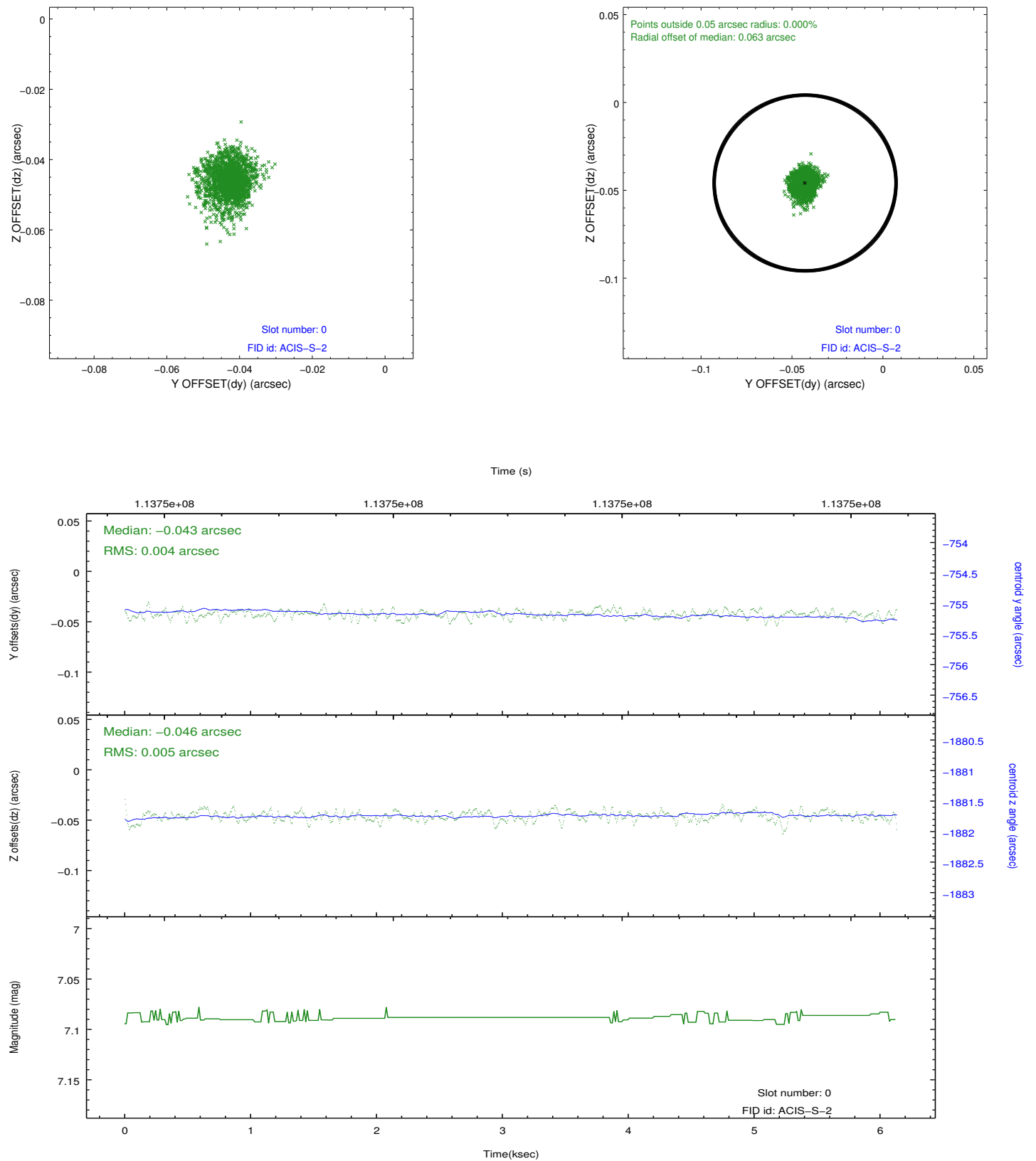


2.4.5 Slot 7

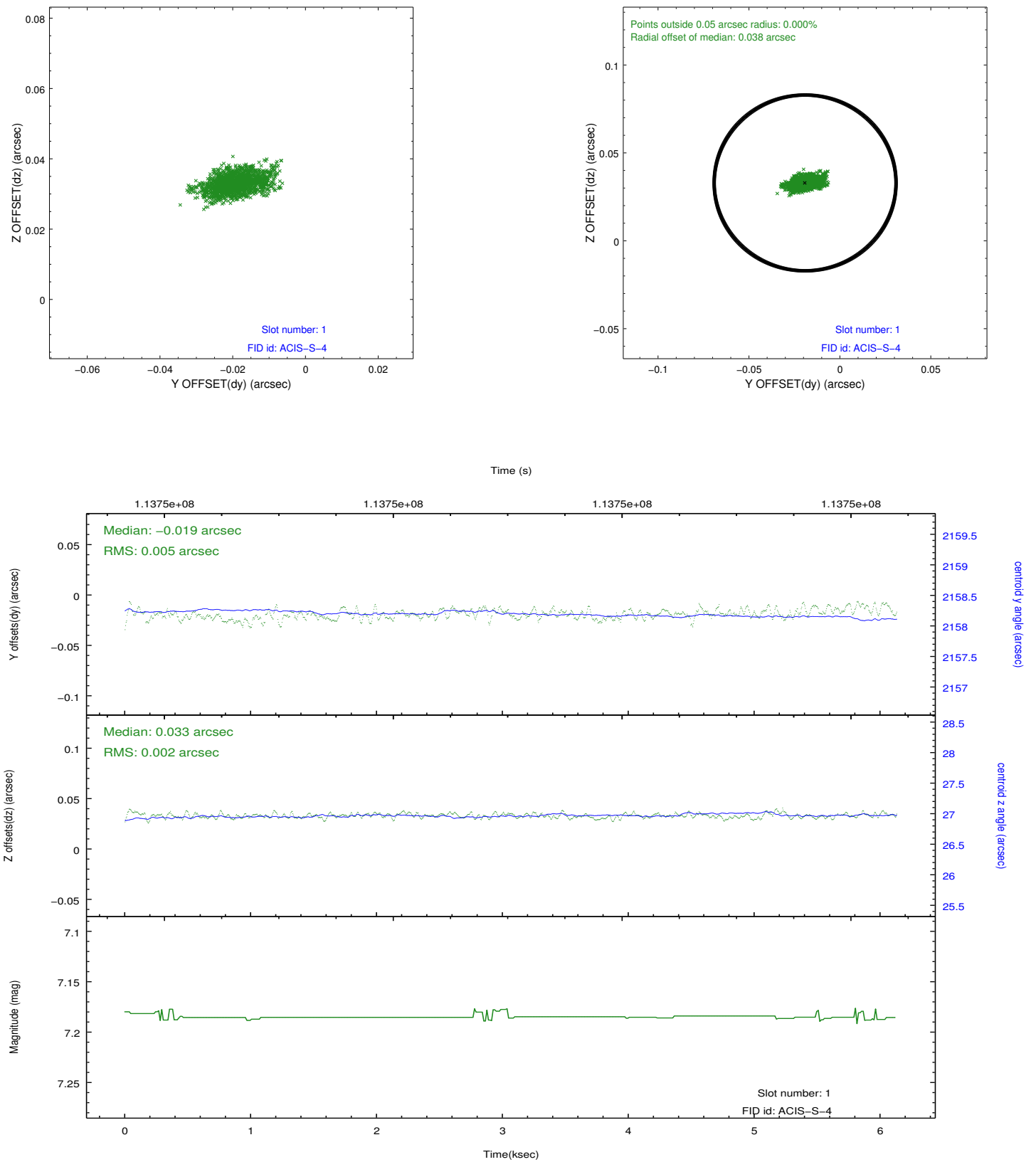


2.5 FID Slots

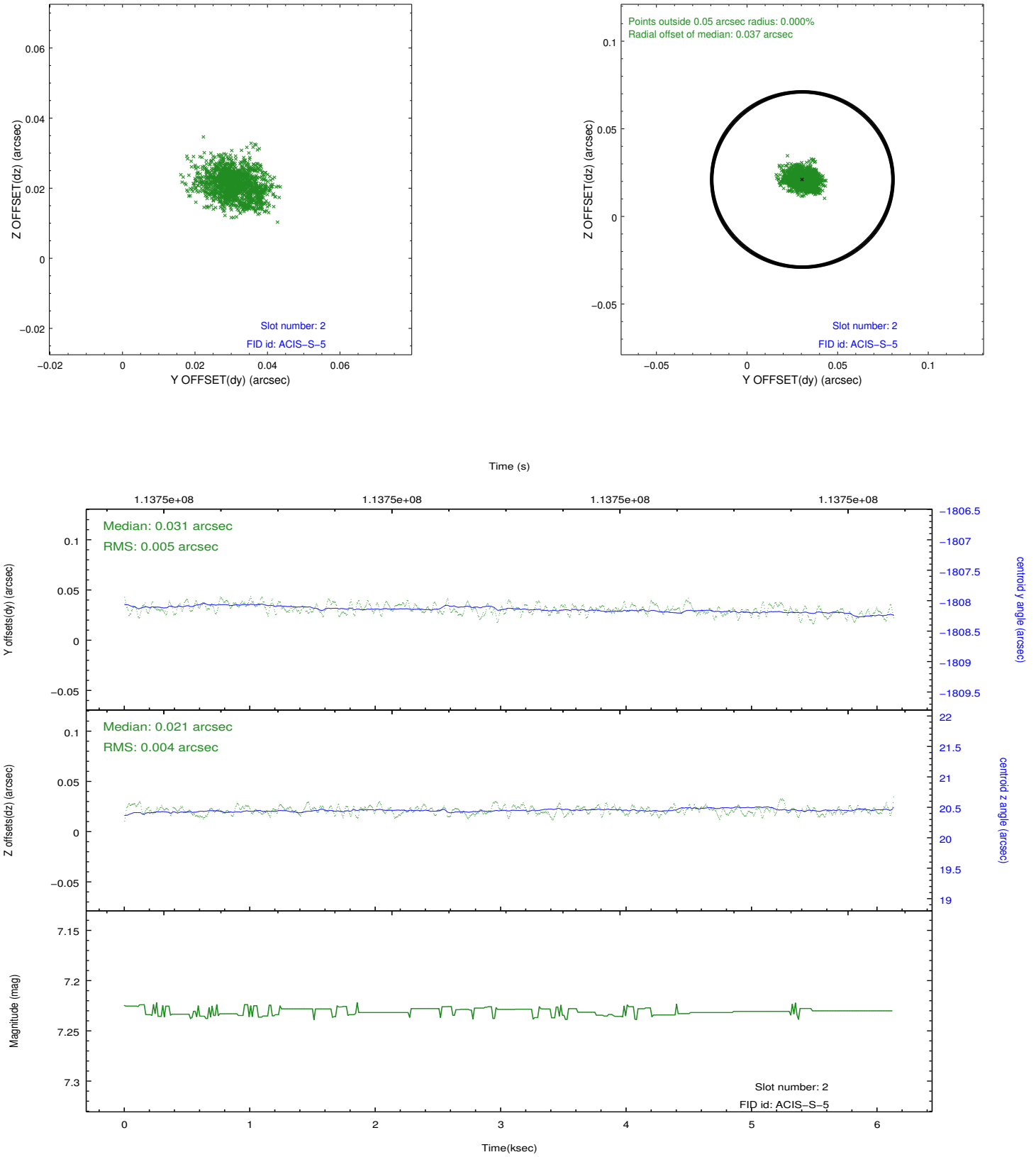
2.5.1 Slot 0



2.5.2 Slot 1

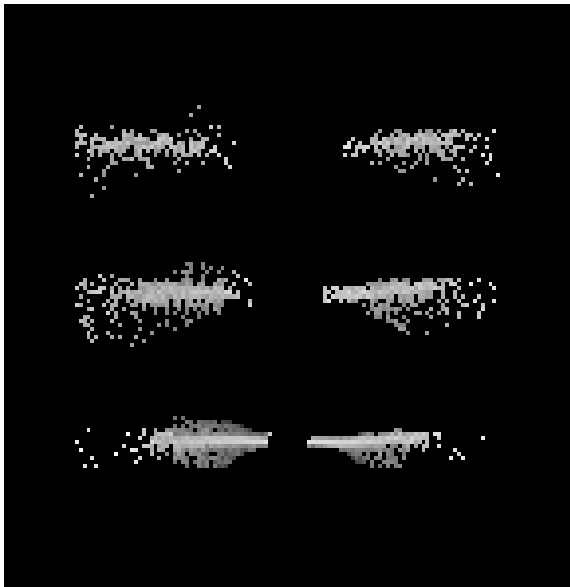


2.5.3 Slot 2

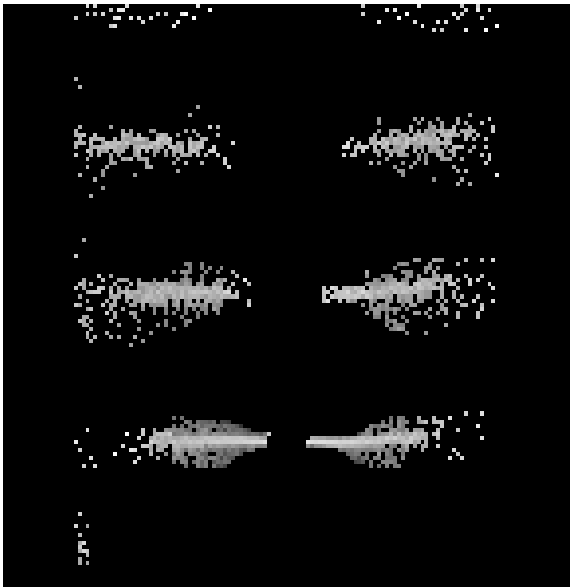


3 Gratings

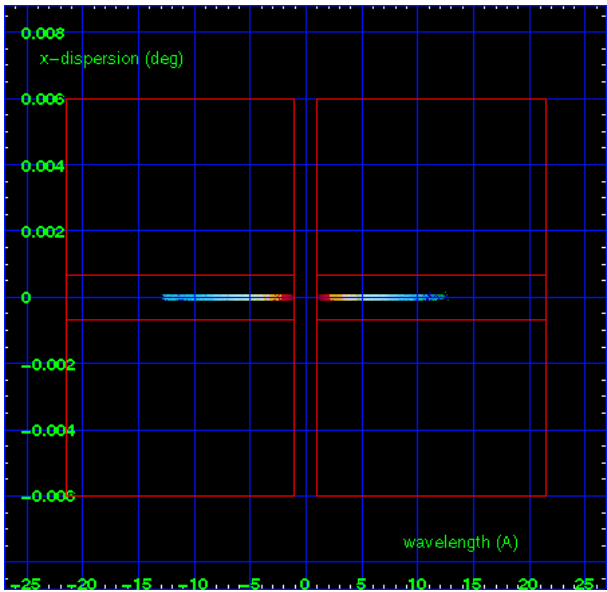
3.1 HEG Arm



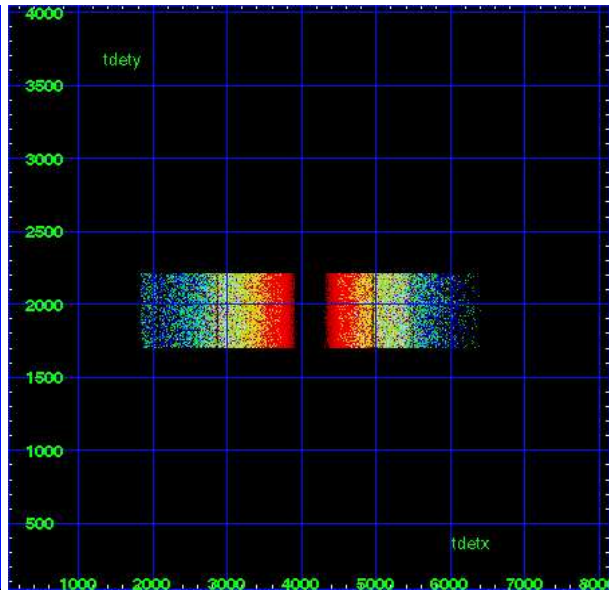
HEG Order Sort 123



HEG Order Sort ALL

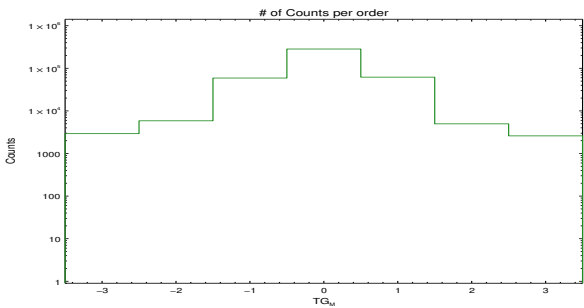


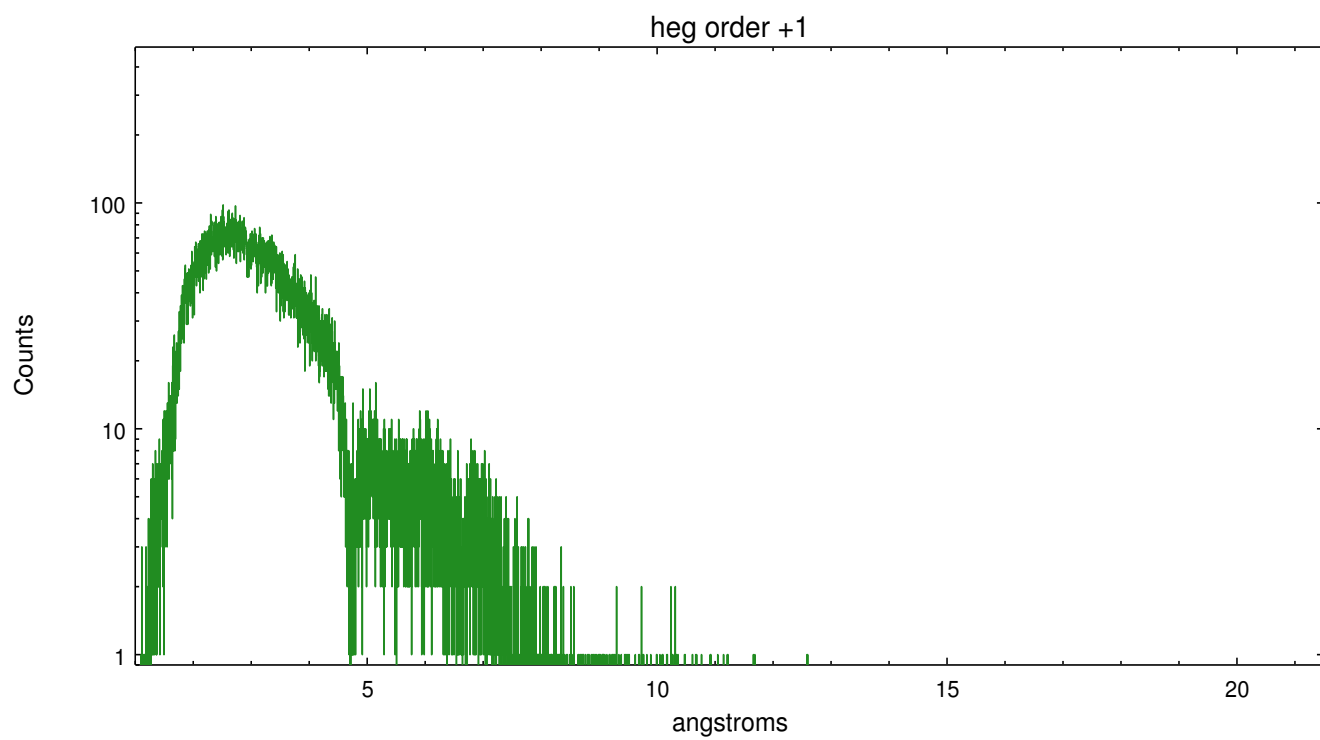
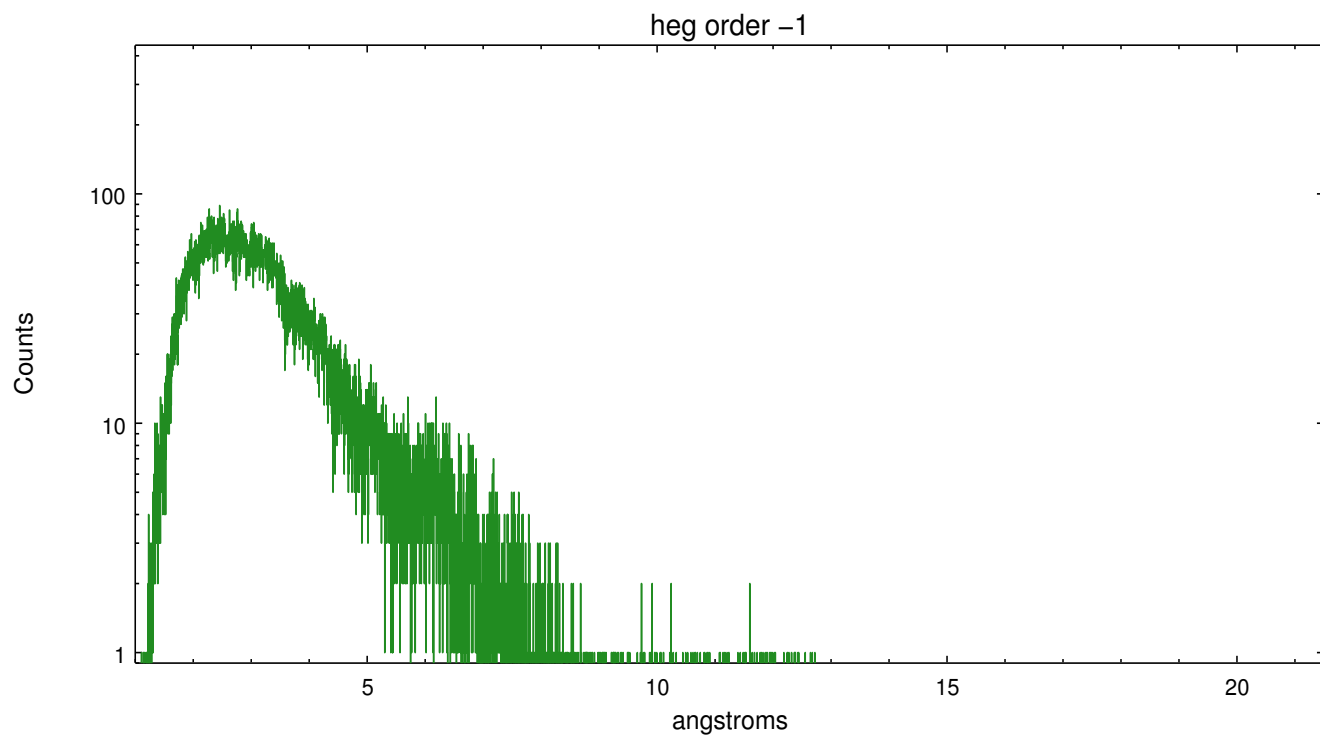
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2926	5858	59063	283543	61963	4967	2594

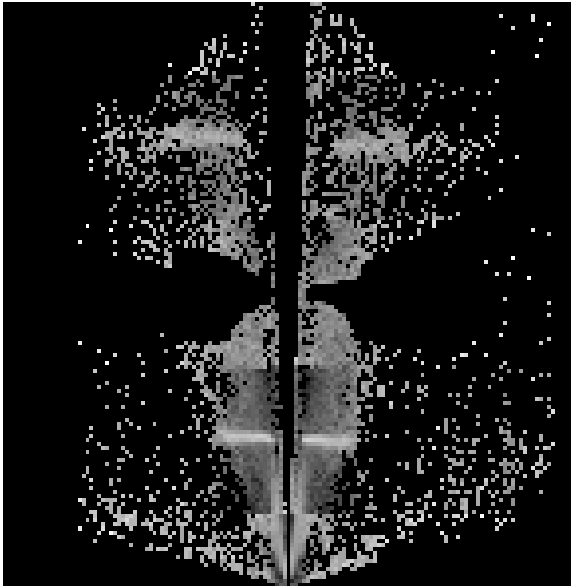




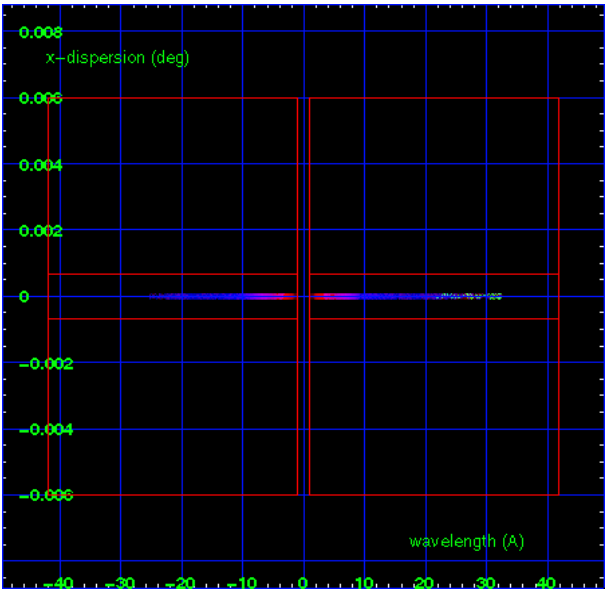
3.2 MEG Arm



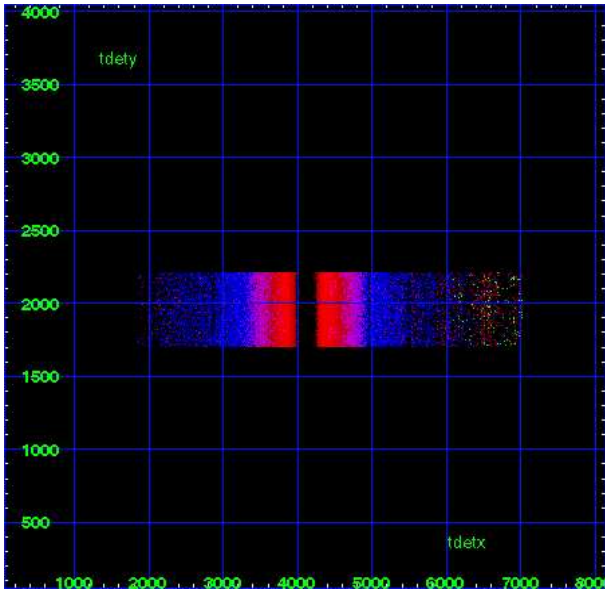
MEG Order Sort 123



MEG Order Sort ALL

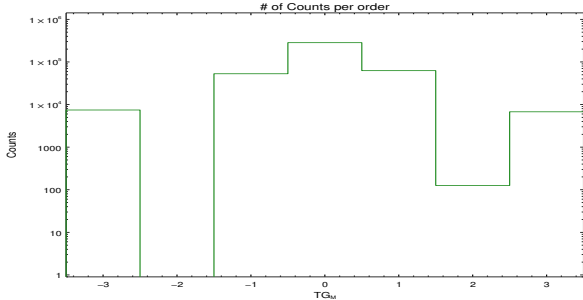


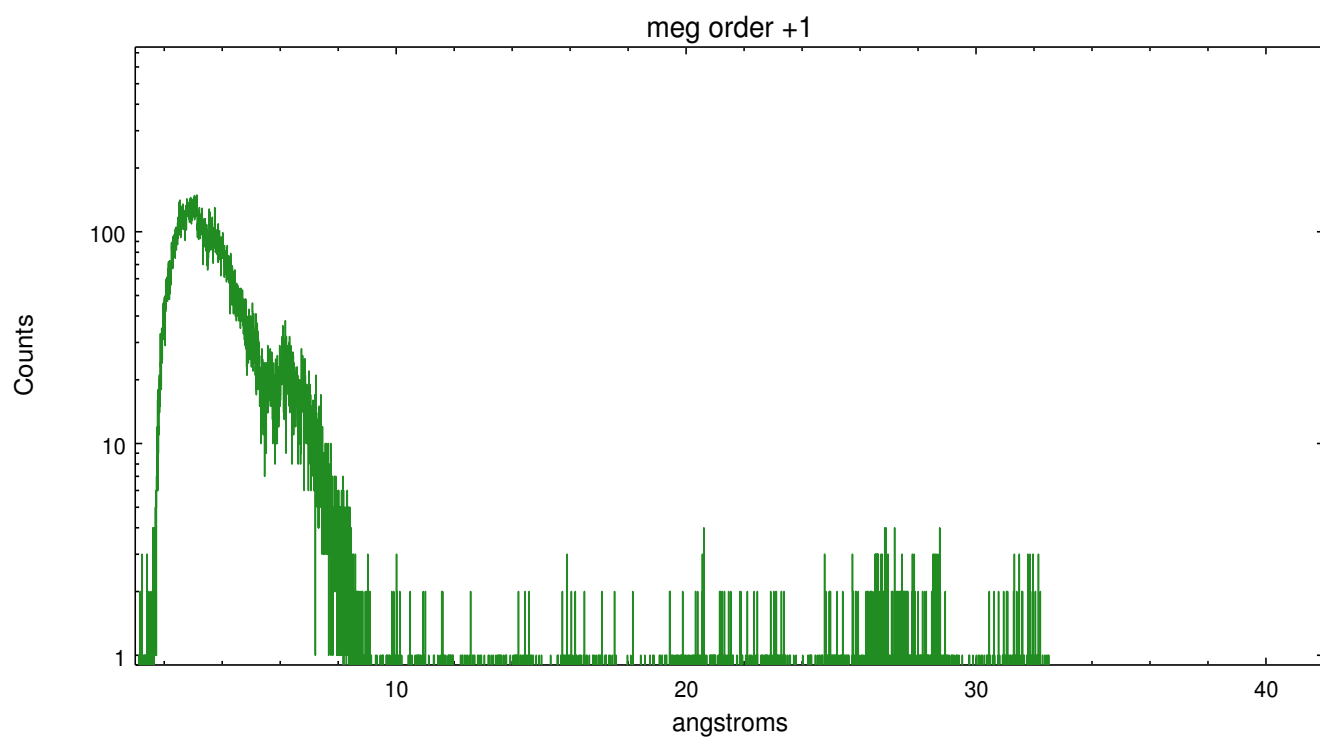
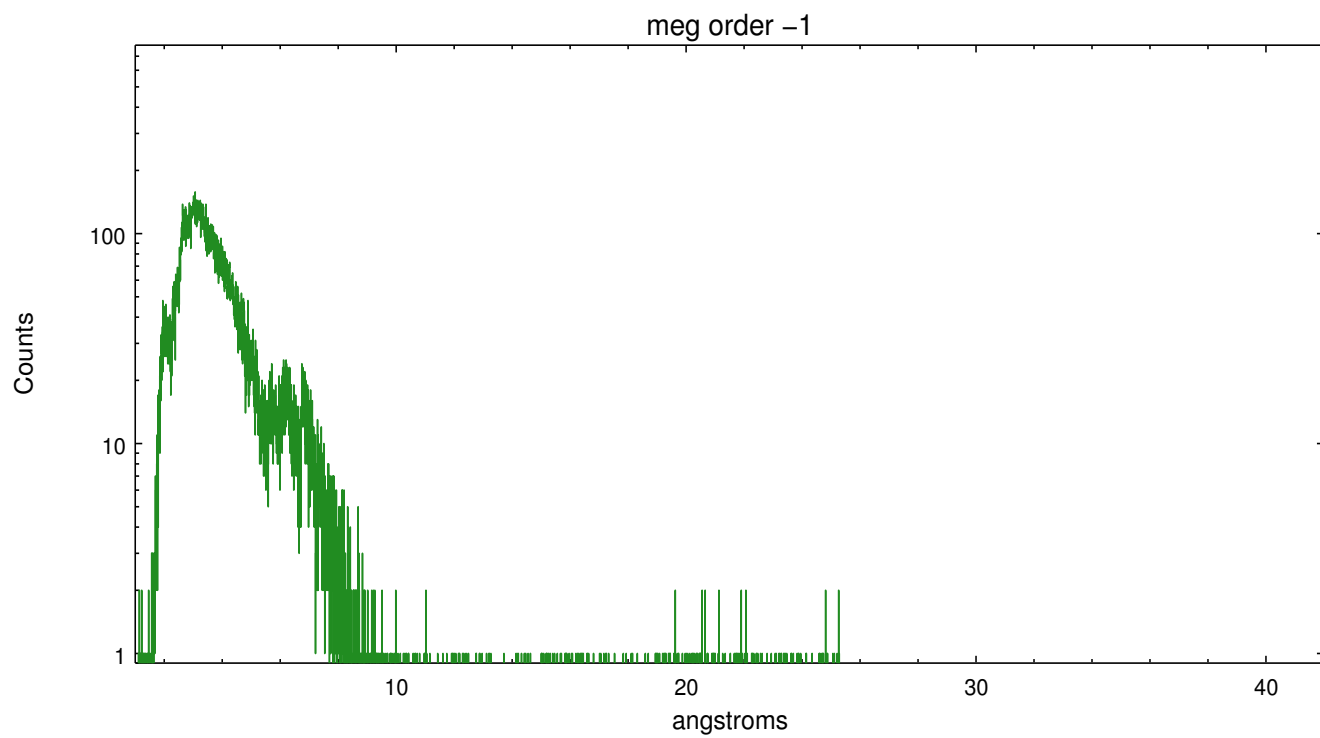
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	7444	0	52839	283543	62509	126	6758





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.847

A.2 Comments