

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6616 - L2 Version 3
Chandra X-Ray Center

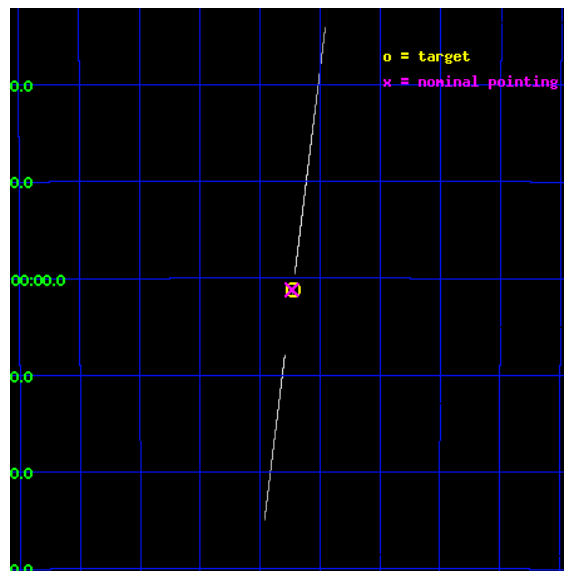
L2 Processing Date : Mar 29 2012

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1 Front

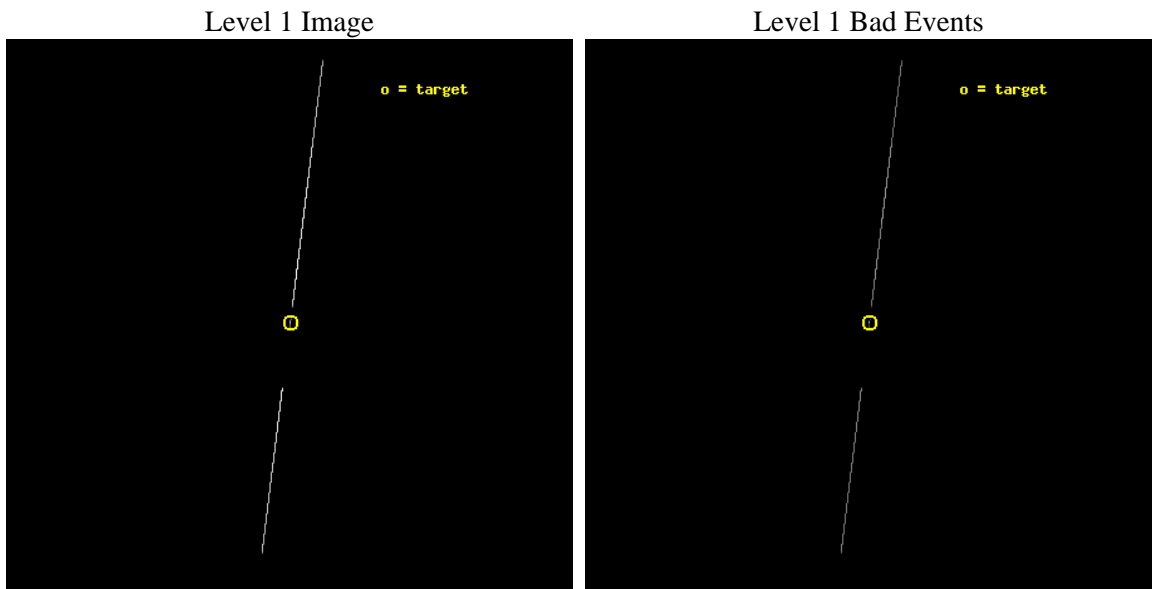
seq_num	400521	Sequence number
obs_id	6616	Observation id
title	Relativistic Effects and Outflows in a Black Hole Transient	Propos
observer	Dr Jon Miller	Principal investigator
object	XTE J1817-330	Source name
ra_targ	274.431404	Observer's specified target RA [deg]
dec_targ	-33.018833	Observer's specified target Dec [deg]
ra_nom	274.43359797793	Nominal RA [deg]
dec_nom	-33.020084428286	Nominal Dec [deg]
roll_nom	97.086852067381	Nominal Roll [deg]
revision	3	Processing version of data
ontime	29874.126341283	Sum of GTIs [s]
livetime	29757.430535263	Livetime [s]
ontime4	46266.398887306	Sum of GTIs [s]
ontime5	49578.75	Sum of GTIs [s]
ontime6	25489.92832157	Sum of GTIs [s]
ontime7	29874.126341283	Sum of GTIs [s]
ontime8	35309.486427158	Sum of GTIs [s]
ontime9	48128.304822475	Sum of GTIs [s]
l2events	16675488	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	49500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	29874.126341283	Sum of GTIs [s]
caldbver	4.4.8	 	ontime4	46266.398887306	Sum of GTIs [s]
date	2012-03-26T08:53:27	Date and time of file creation	ontime5	49578.75	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	25489.92832157	Sum of GTIs [s]
			ontime7	29874.126341283	Sum of GTIs [s]
			ontime8	35309.486427158	Sum of GTIs [s]
			ontime9	48128.304822475	Sum of GTIs [s]
			l1events	18429641	Number of level 1 events

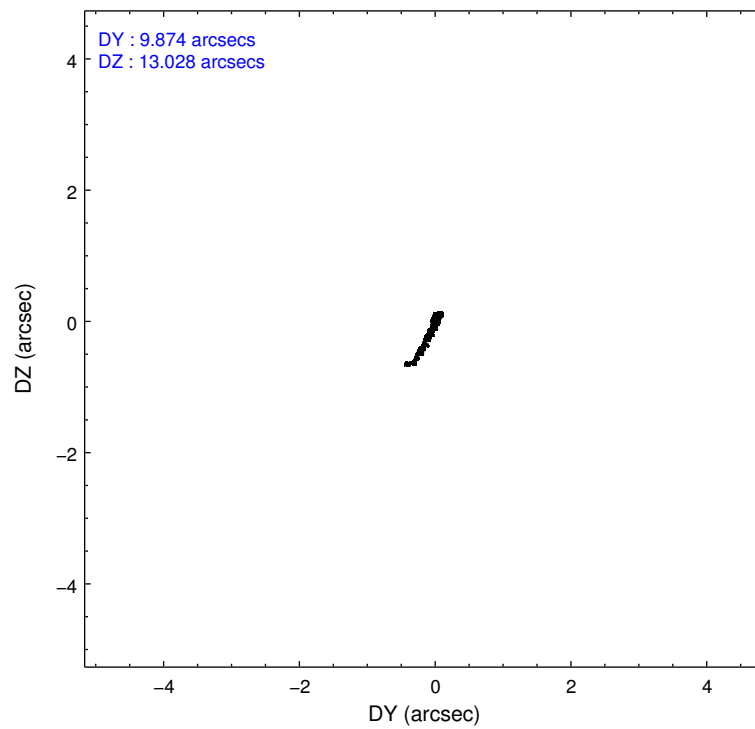
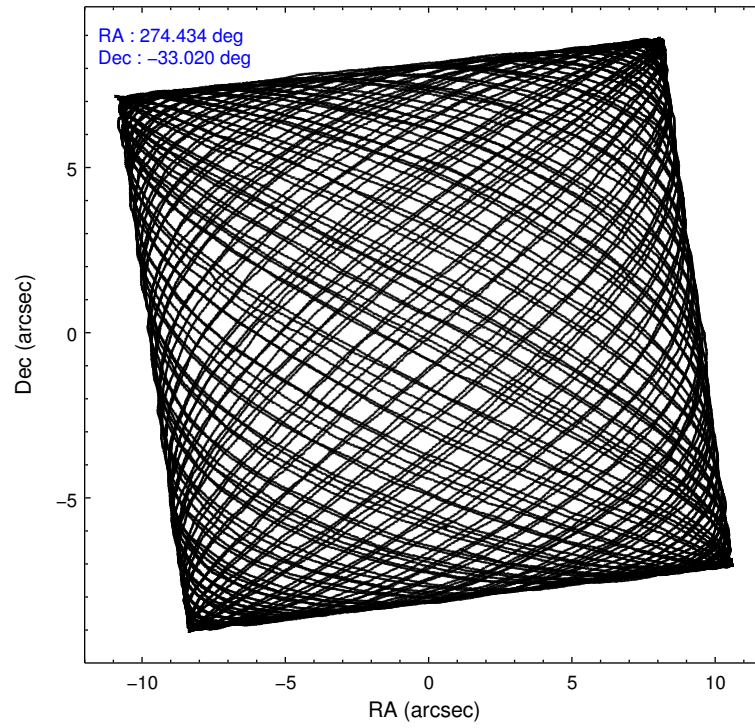
2.1.3 Events

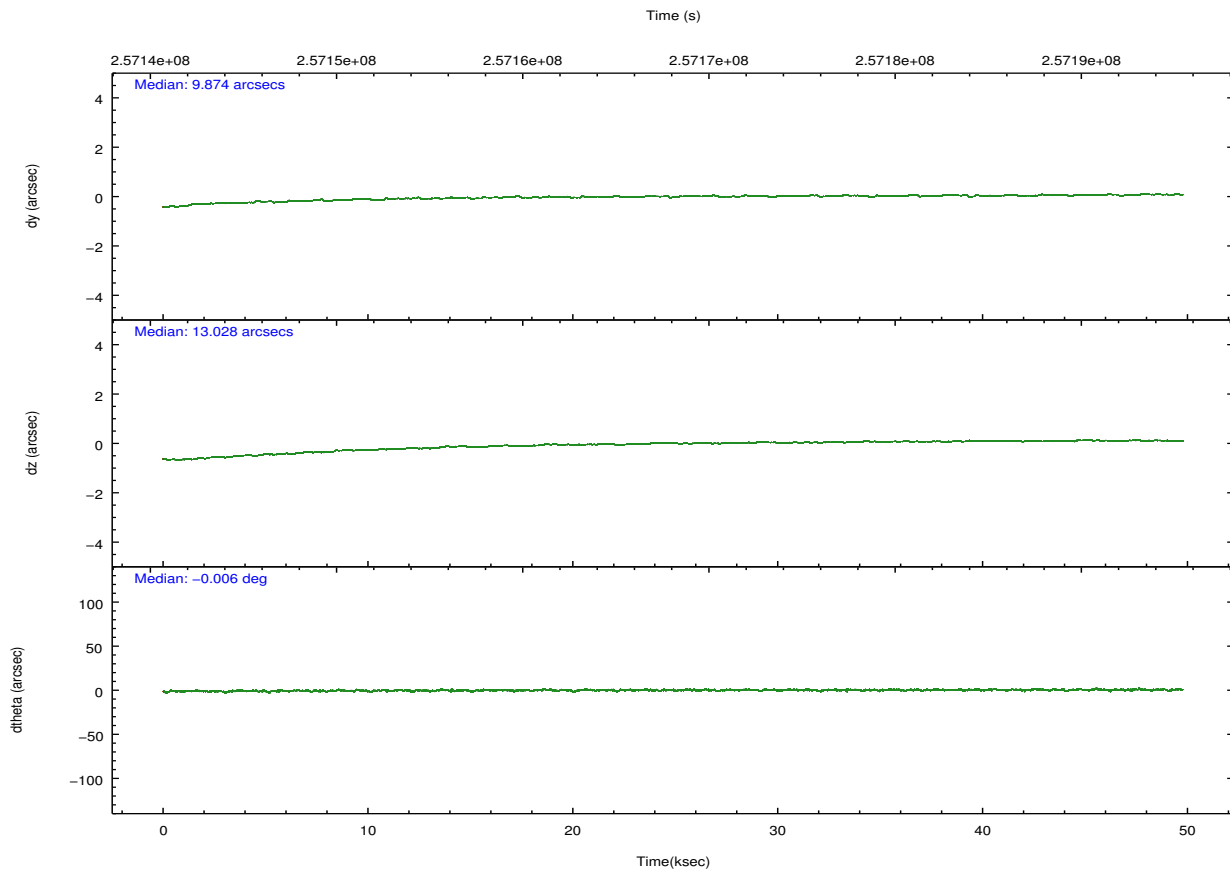
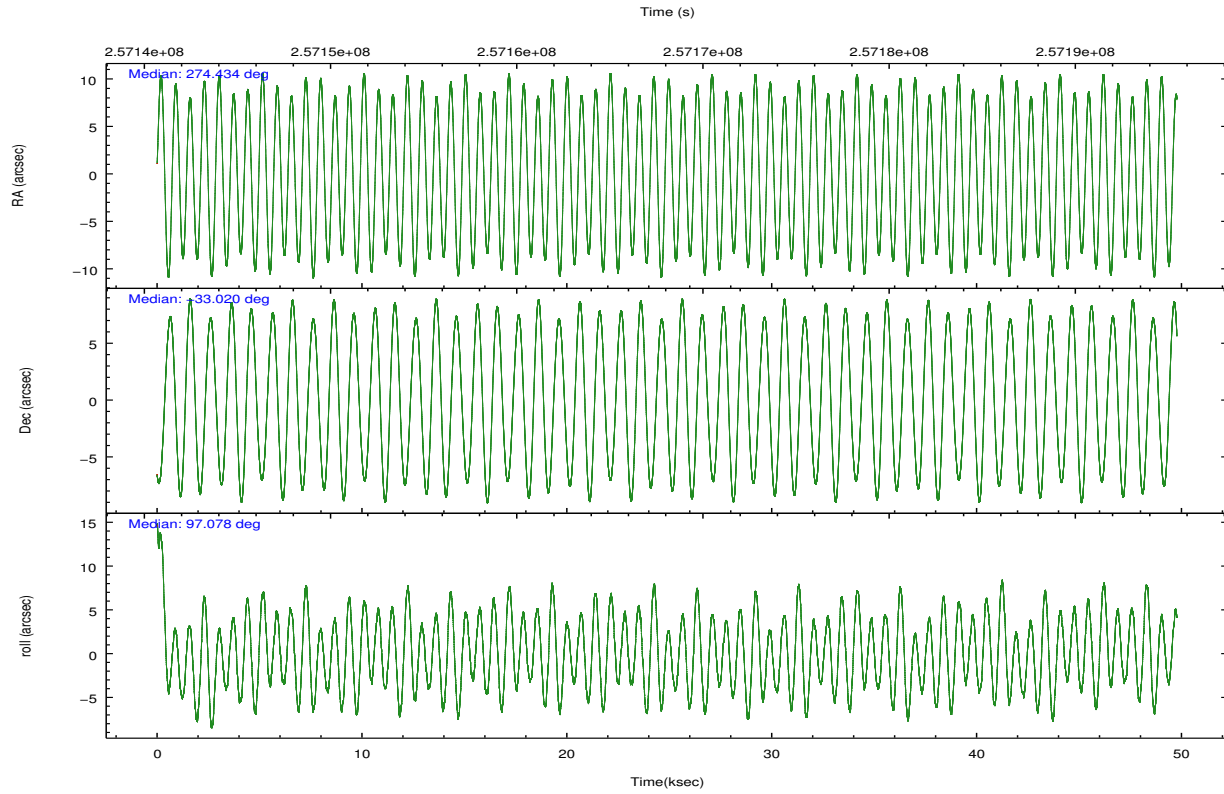
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	1004543	4643656	6506357	96892	4758214	1419979	grade 0 events	342614	900848	932370	12933	2385963	514620
rejected events	19332	91267	50385	17658	41562	24512		34%	19%	14%	13%	50%	36%
rejected %	1%	1%	0%	18%	0%	1%	grade 1 events	1003	1593	3117	3953	6173	1510
								0%	0%	0%	4%	0%	0%
							grade 2 events	550469	2106707	4990063	20195	1992245	758185
								54%	45%	76%	20%	41%	53%
							grade 3 events	21167	230783	42901	6021	97523	24204
								2%	4%	0%	6%	2%	1%
							grade 4 events	21300	228514	43063	6130	96782	24573
								2%	4%	0%	6%	2%	1%
							grade 5 events	18217	89187	47093	13698	34799	22839
								1%	1%	0%	14%	0%	1%
							grade 6 events	49773	1086024	447750	33962	144729	74048
								4%	23%	6%	35%	3%	5%
							grade 7 events	0	0	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-456789	ACIS-456789	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	274.453532	274.4335979779269	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.041597	-33.02008442828582	Alternating exposures requested	N	N
[deg] Pointing Roll	96.941089	97.08685206738087	[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	-185.632523	-185.6344130294764			
[mm] SIM translation stage offset	-4.5	-4.498109553531435			
[s] Observation start time (MET)	257143462.184000	257142886.17064			
Observation start date	2006-02-24T04:43:17	2006-02-24T04:34:46			
[s] Observation end time (MET)	257192962.184000	257193276.71048			
Observation end date	2006-02-24T18:28:17	2006-02-24T18:34:36			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



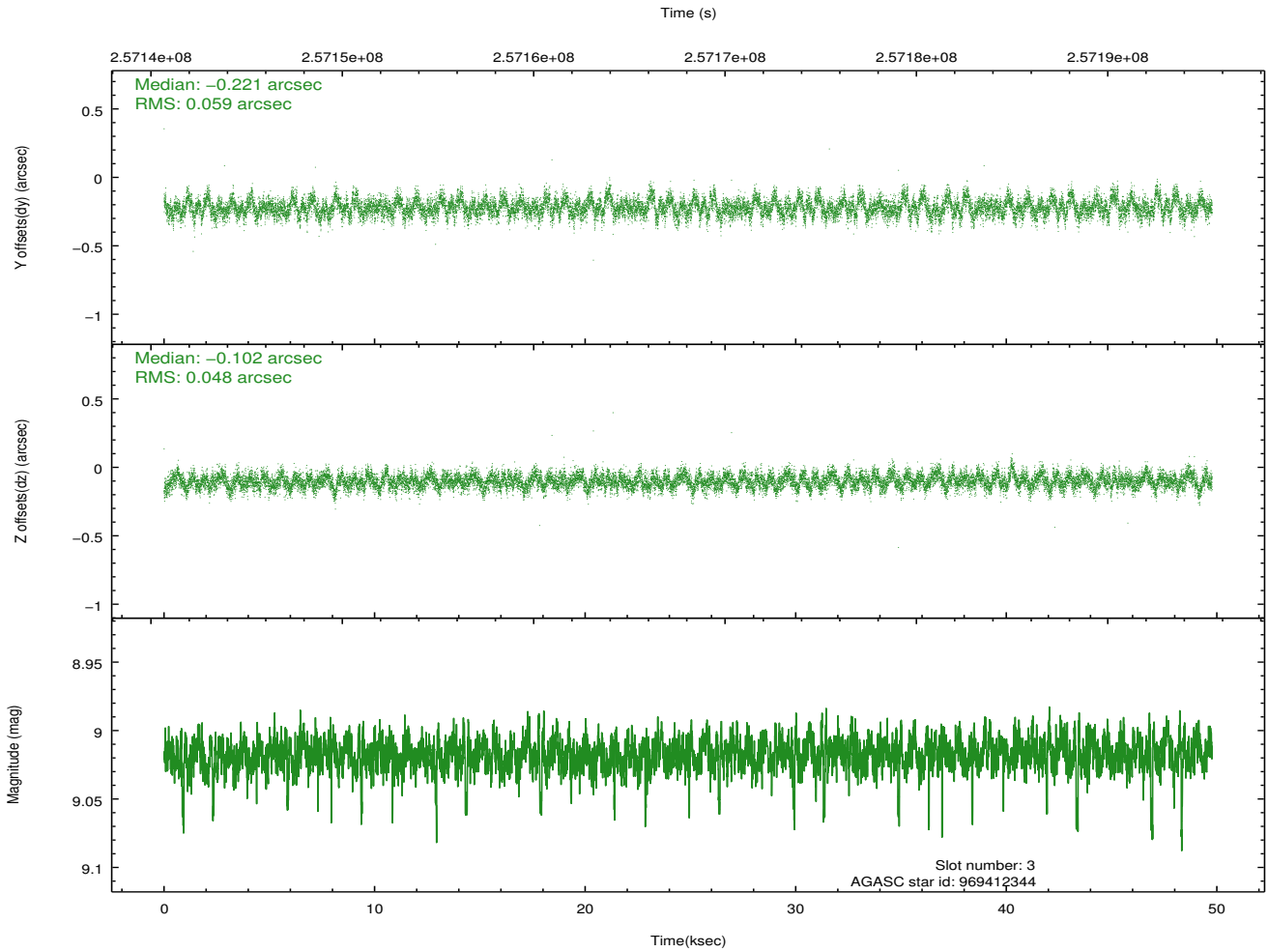
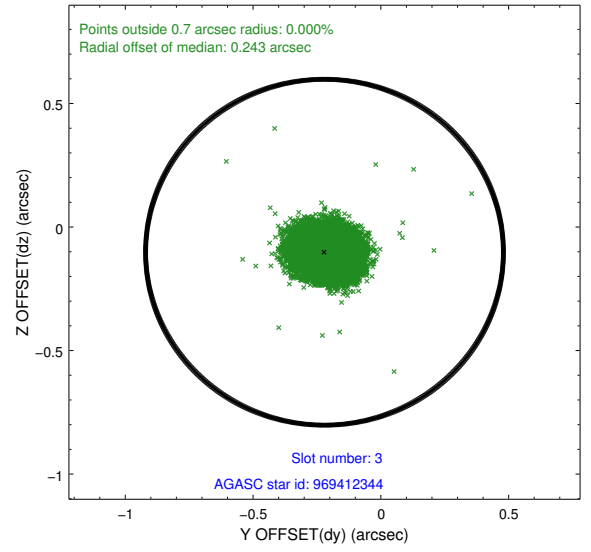
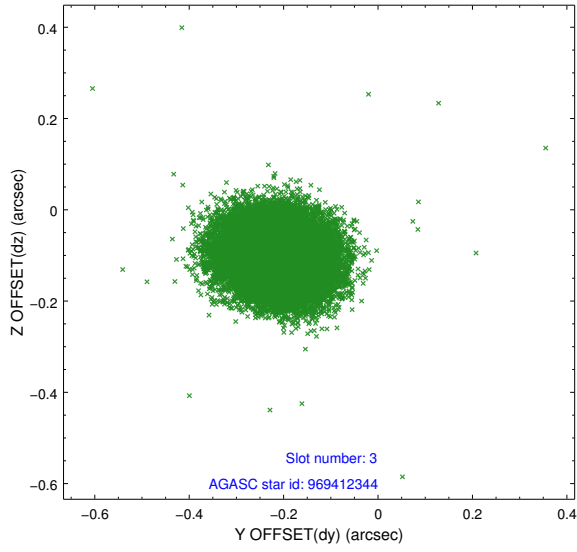


Slot Statistics

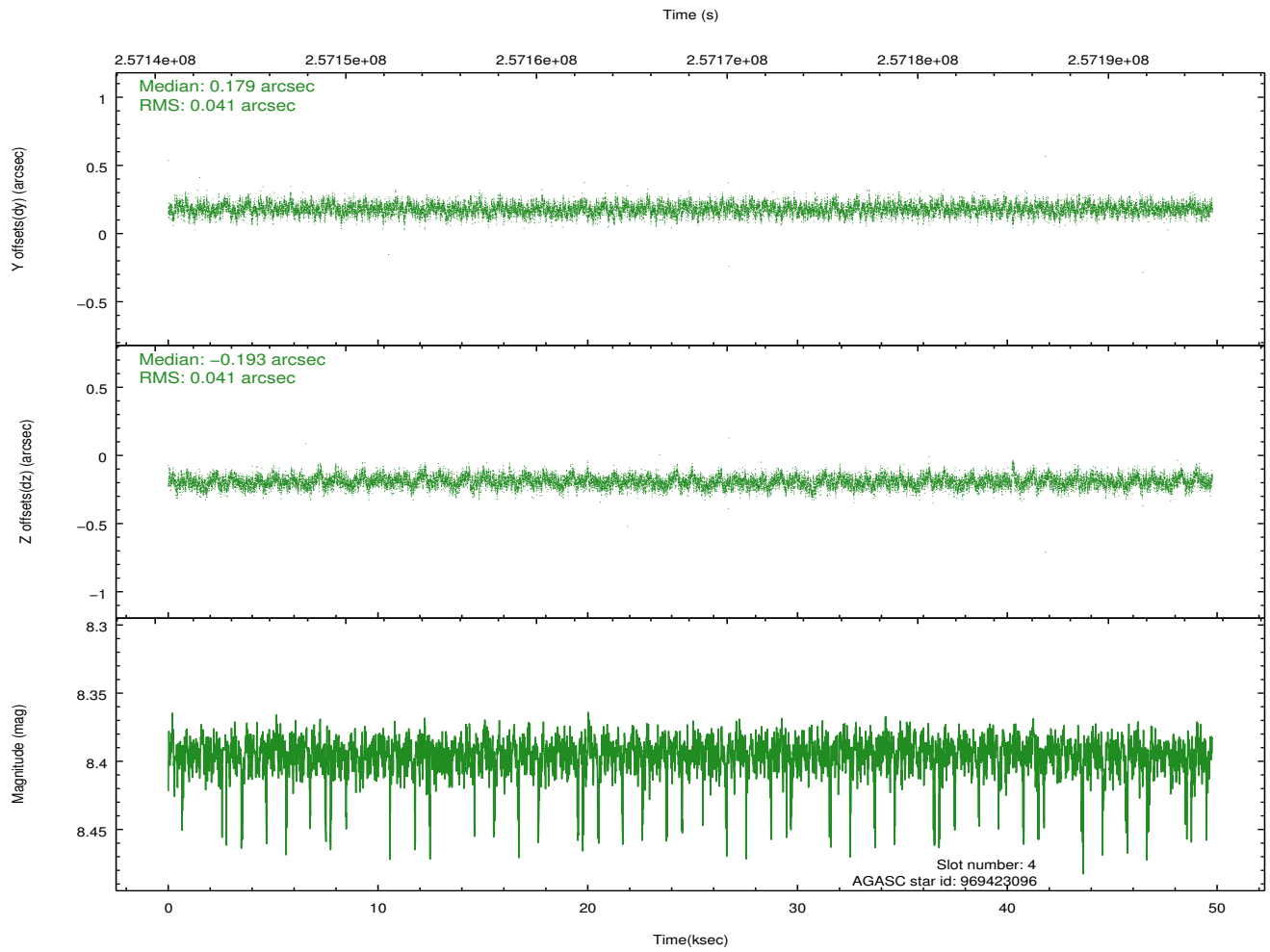
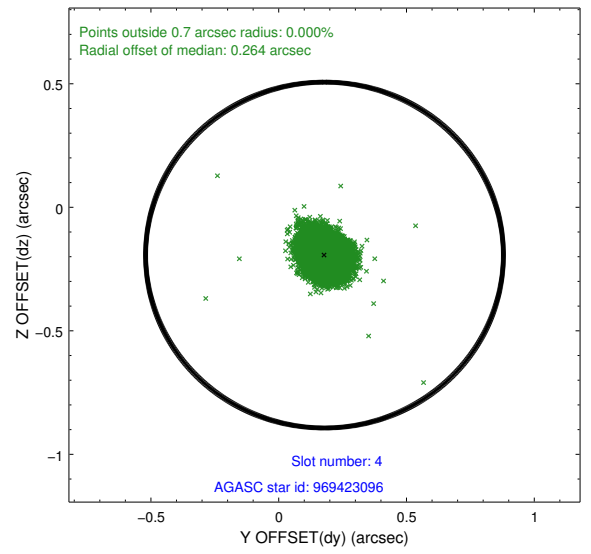
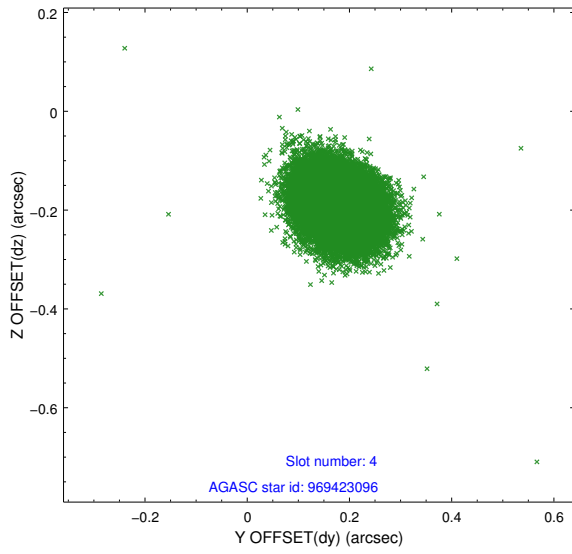
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	12141	0.057	-0.012	0.008	0.015	0.000000	0.000000	933.75	-1822.68
1	FID	ACIS-S-5	7.23	12140	-0.158	0.030	0.007	0.012	0.000000	0.000000	-1815.47	74.92
2	FID	ACIS-S-6	7.38	12141	0.079	-0.007	0.008	0.013	0.000000	0.000000	399.34	718.83
3	GUIDE	969412344	9.02	24269	-0.221	-0.102	0.080	0.131	274.076678	-32.477713	2151.29	891.38
4	GUIDE	969423096	8.39	24267	0.179	-0.193	0.061	0.100	273.993243	-33.502196	-1481.79	1572.10
5	GUIDE	969546176	8.82	24204	-0.105	0.355	0.090	0.137	275.052671	-32.702345	988.29	-1948.03
6	GUIDE	969547152	8.73	24270	0.151	0.069	0.076	0.126	274.902625	-33.021939	-95.80	-1353.79
7	GUIDE	969409688	9.13	24197	-0.003	-0.129	0.100	0.161	273.631099	-32.444349	2426.65	2222.01

2.4 Star Slots

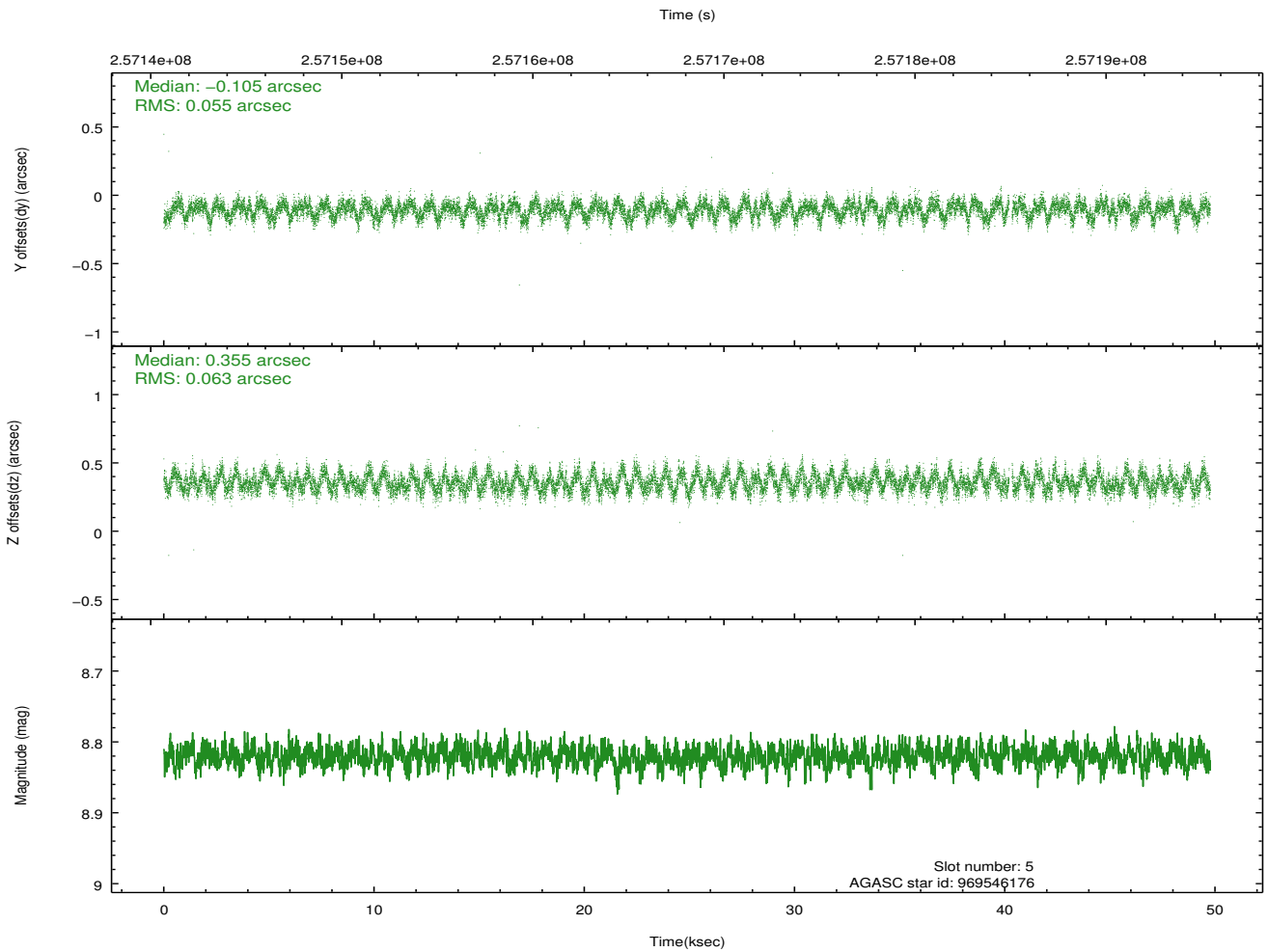
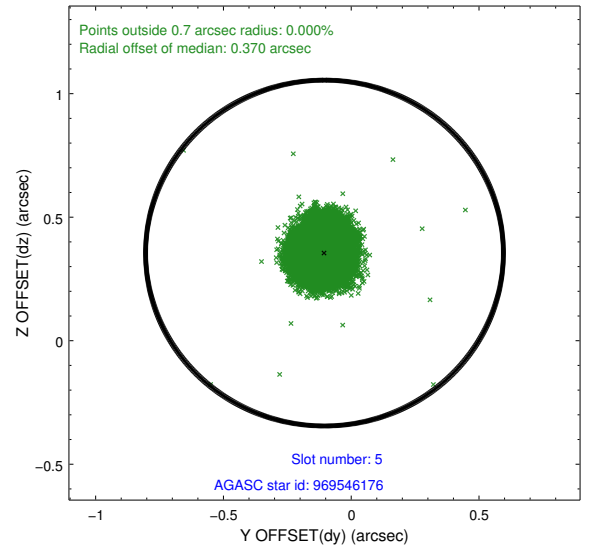
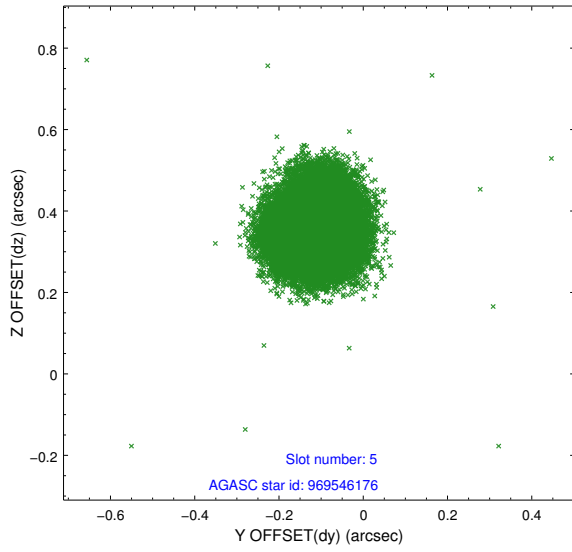
2.4.1 Slot 3



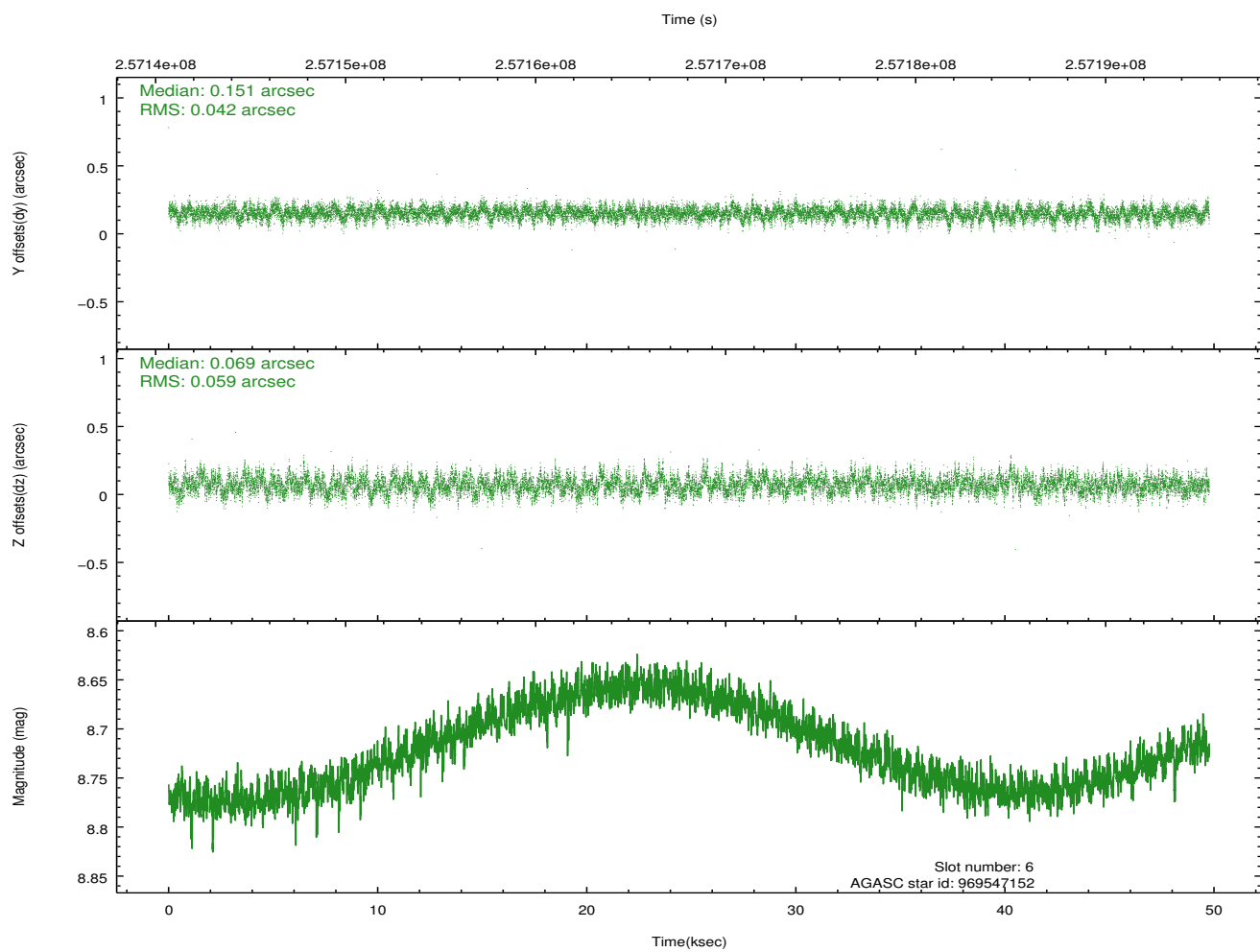
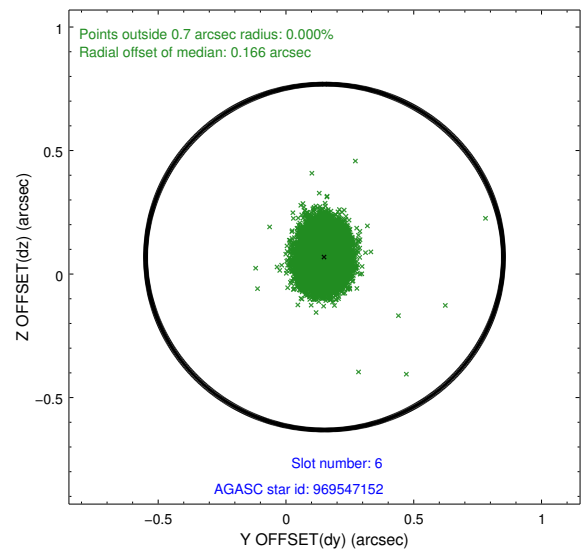
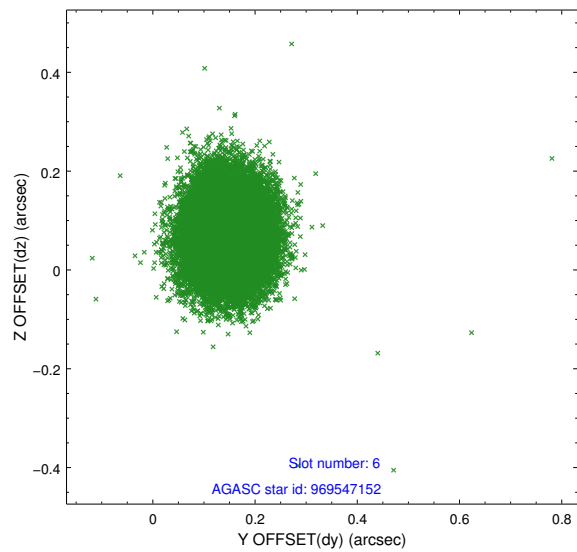
2.4.2 Slot 4



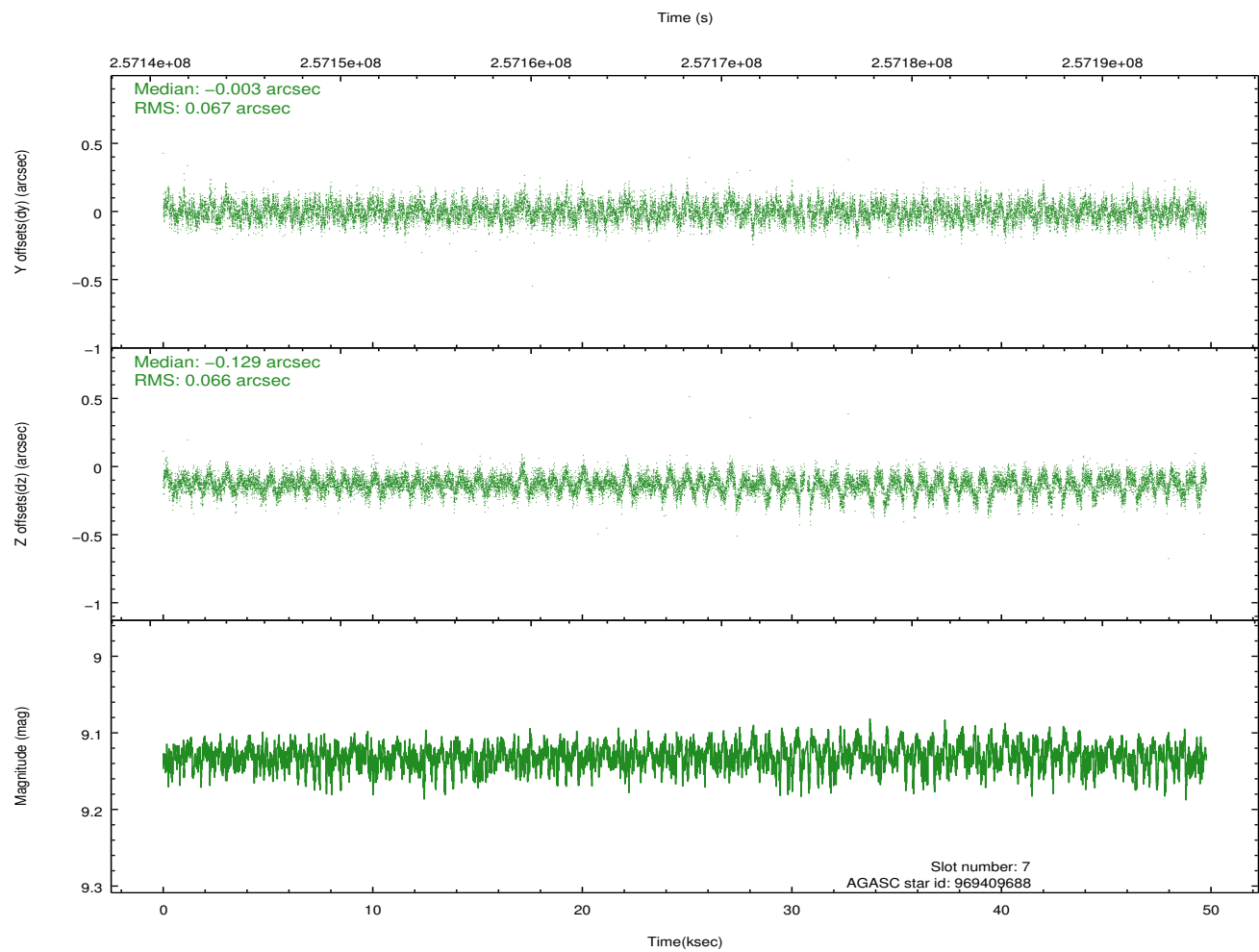
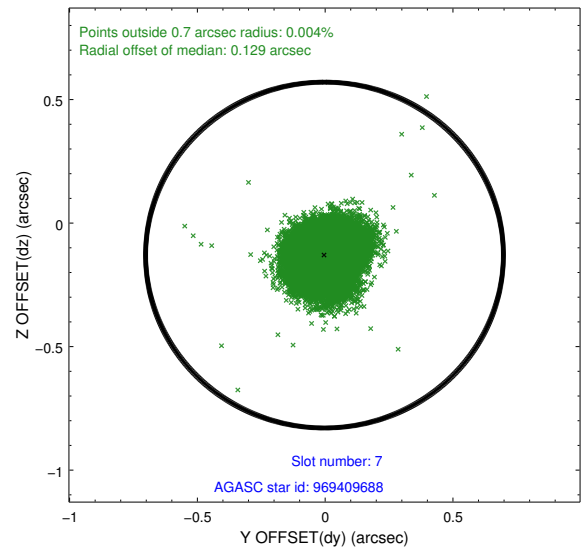
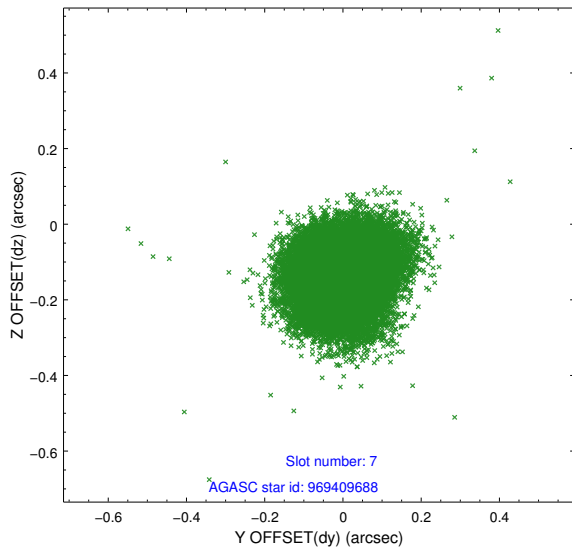
2.4.3 Slot 5



2.4.4 Slot 6

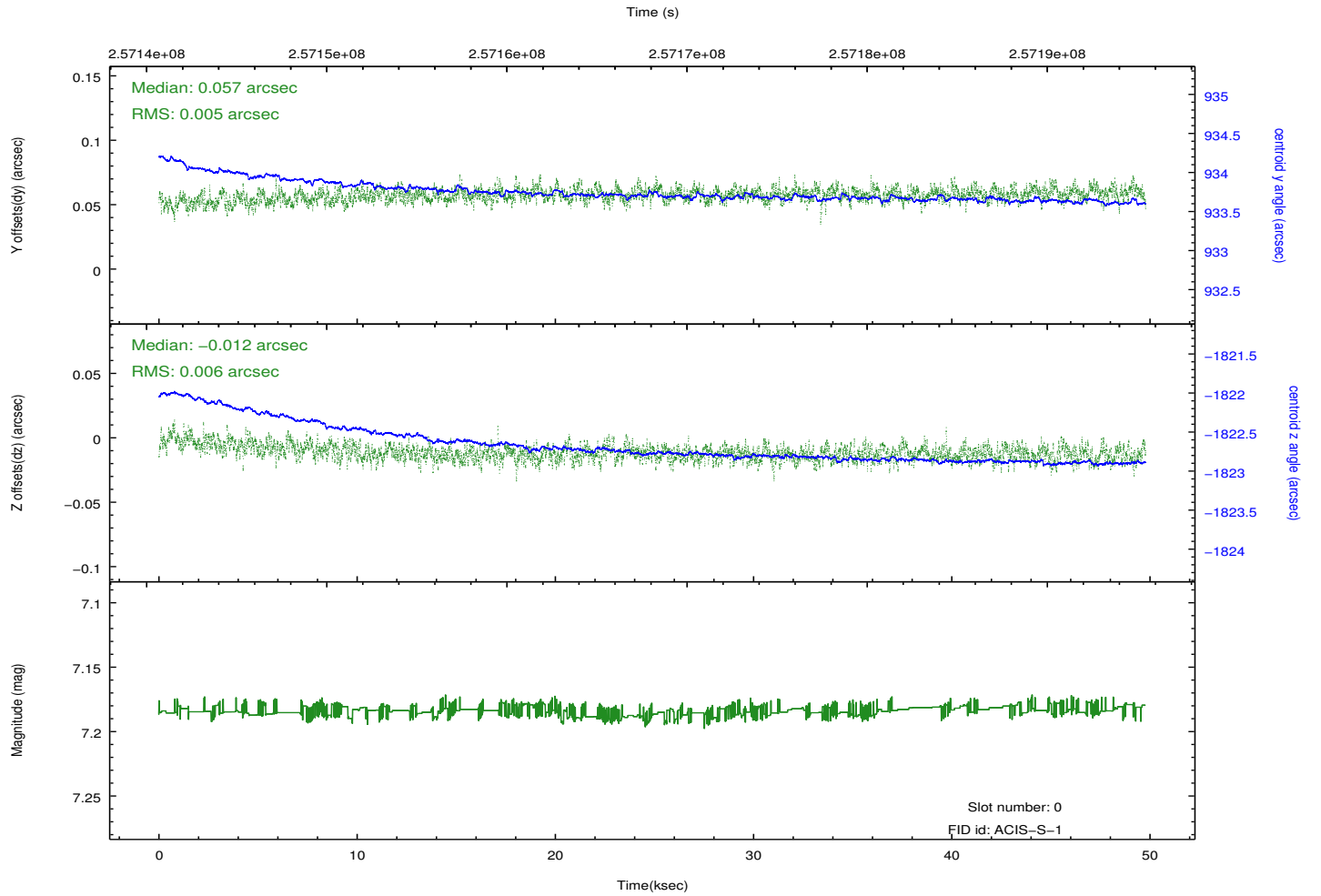
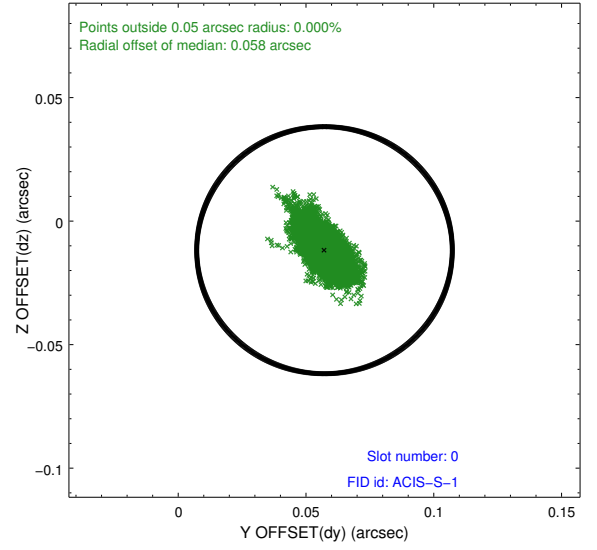
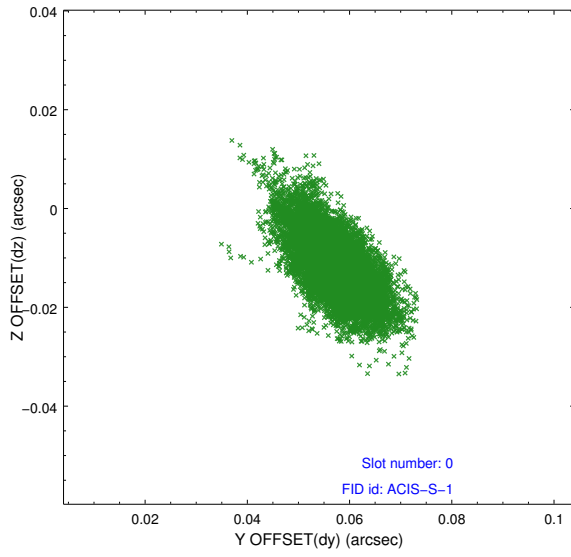


2.4.5 Slot 7

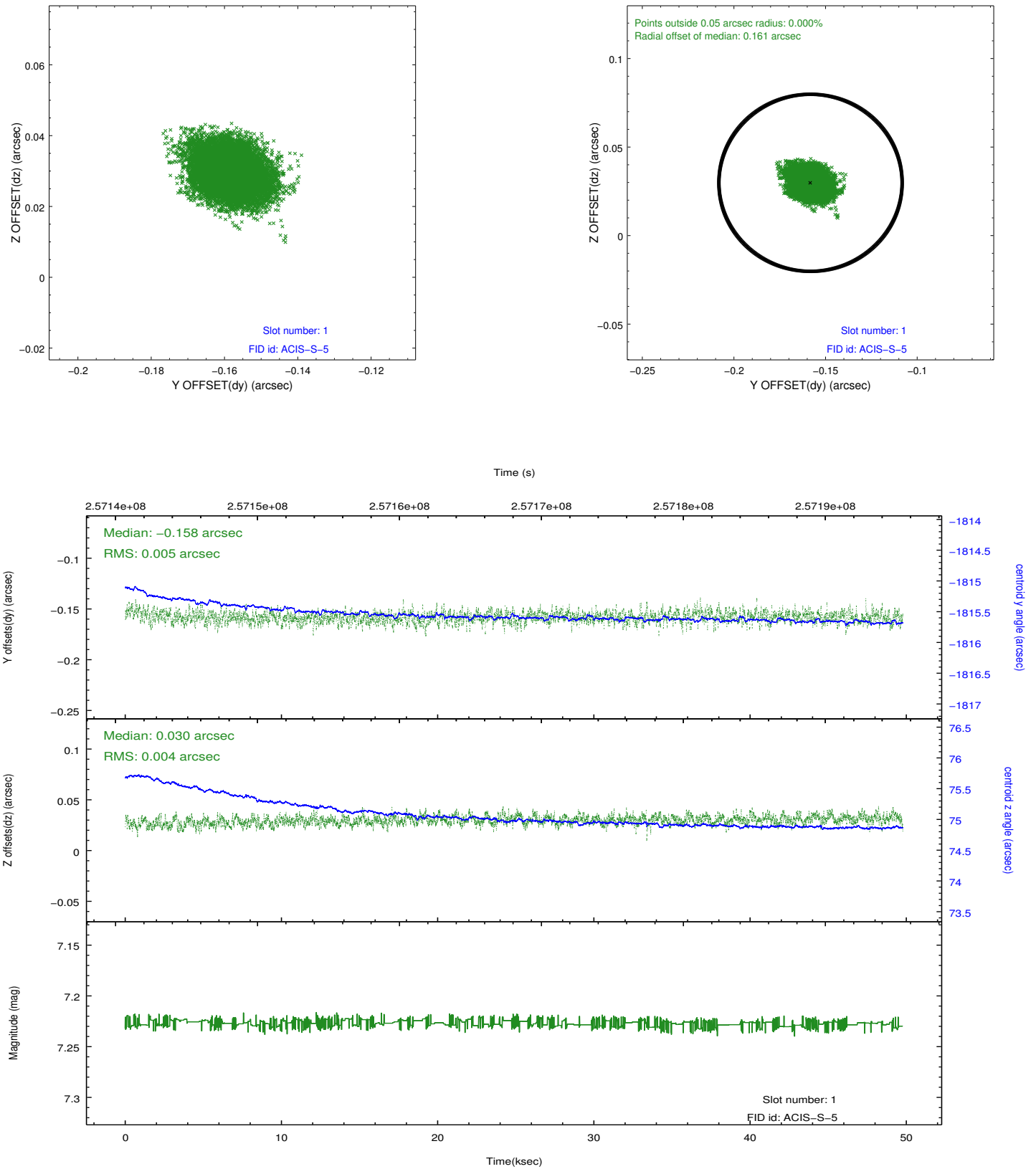


2.5 FID Slots

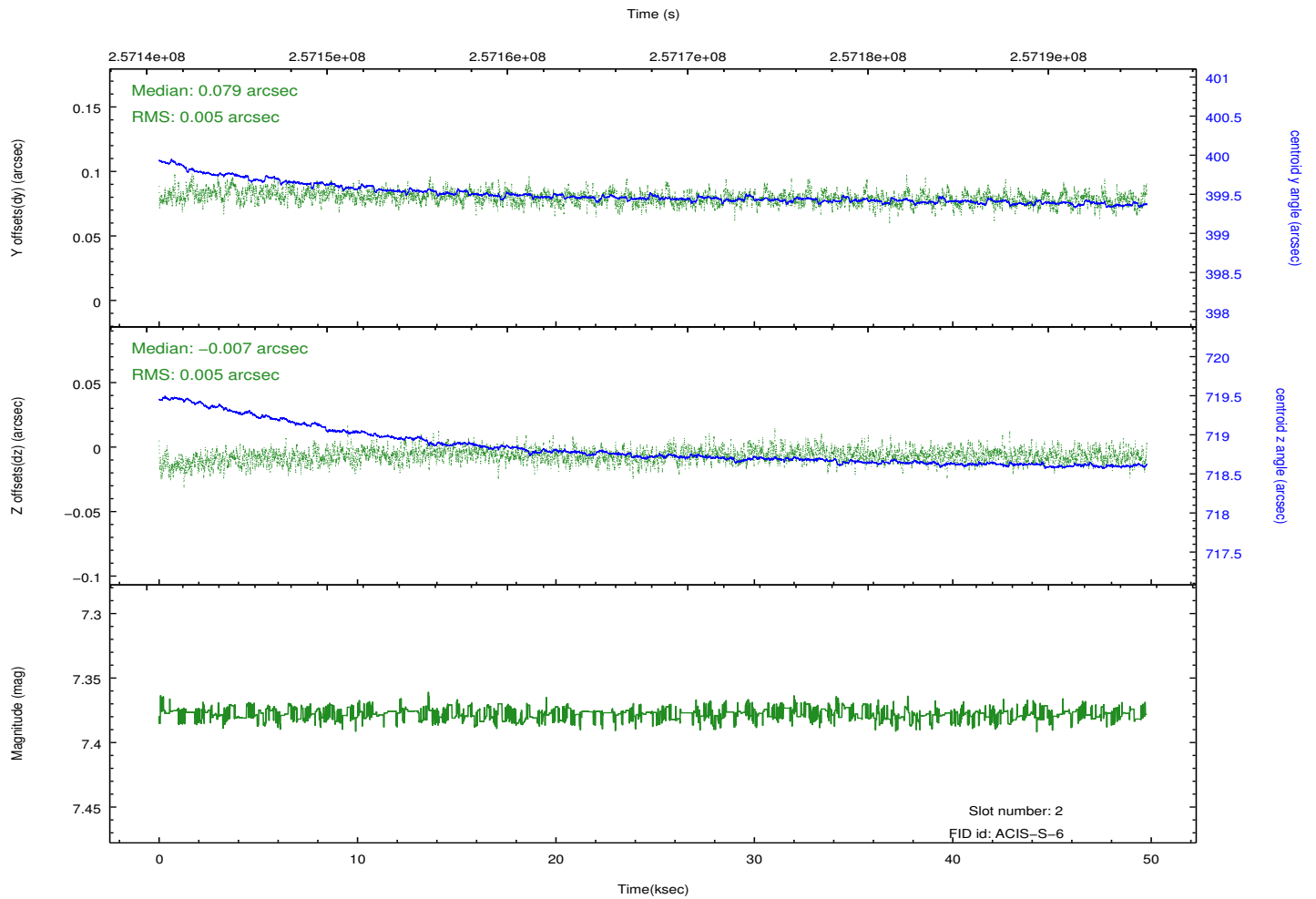
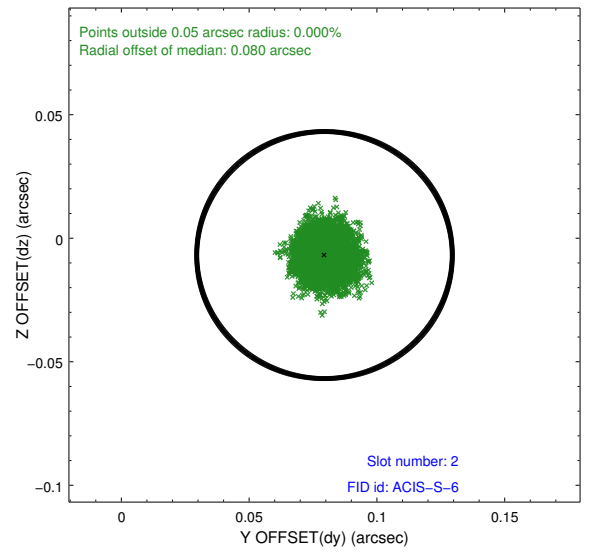
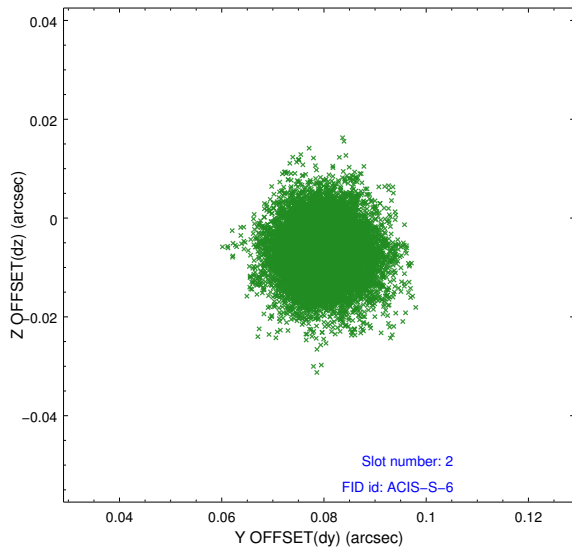
2.5.1 Slot 0



2.5.2 Slot 1

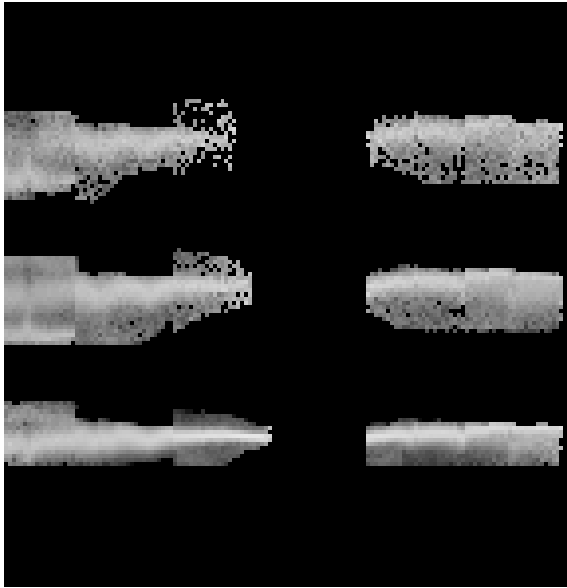


2.5.3 Slot 2



3 Gratings

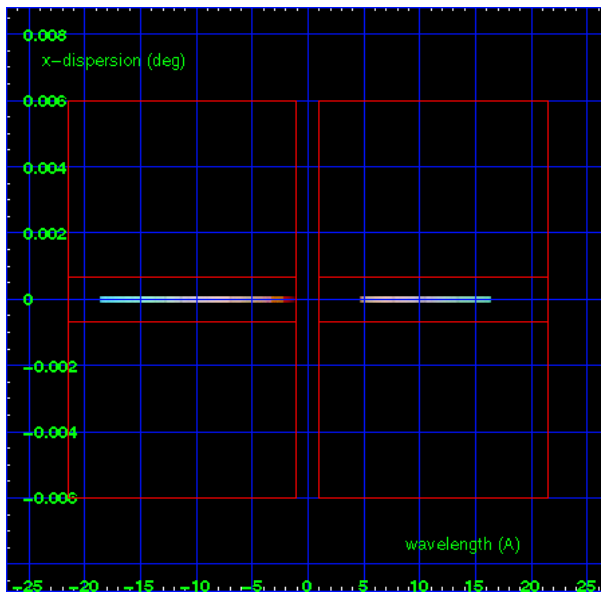
3.1 HEG Arm



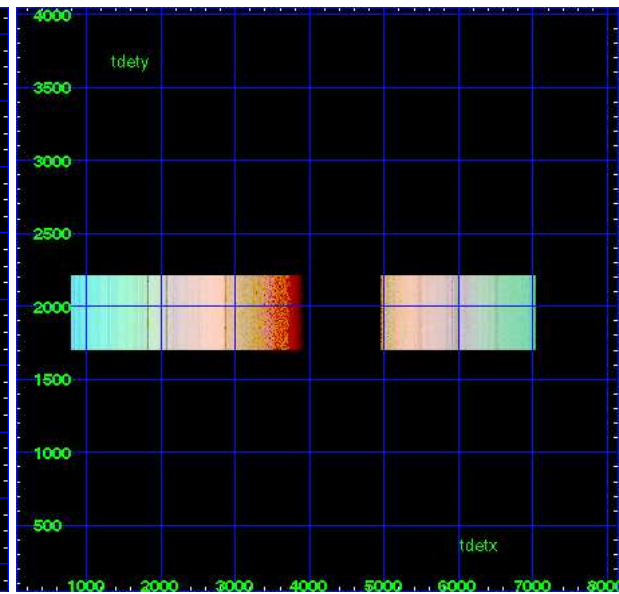
HEG Order Sort 123



HEG Order Sort ALL

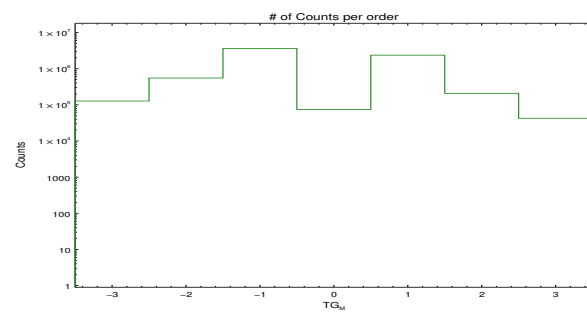


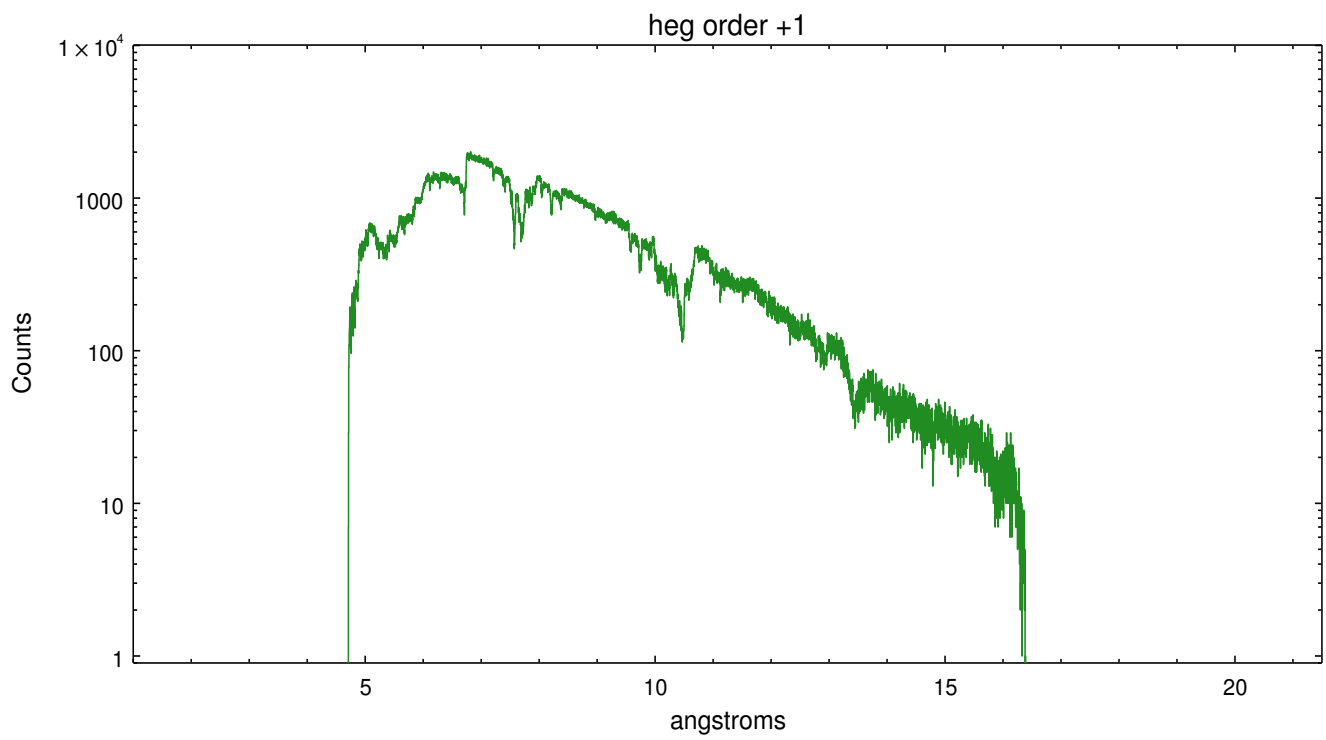
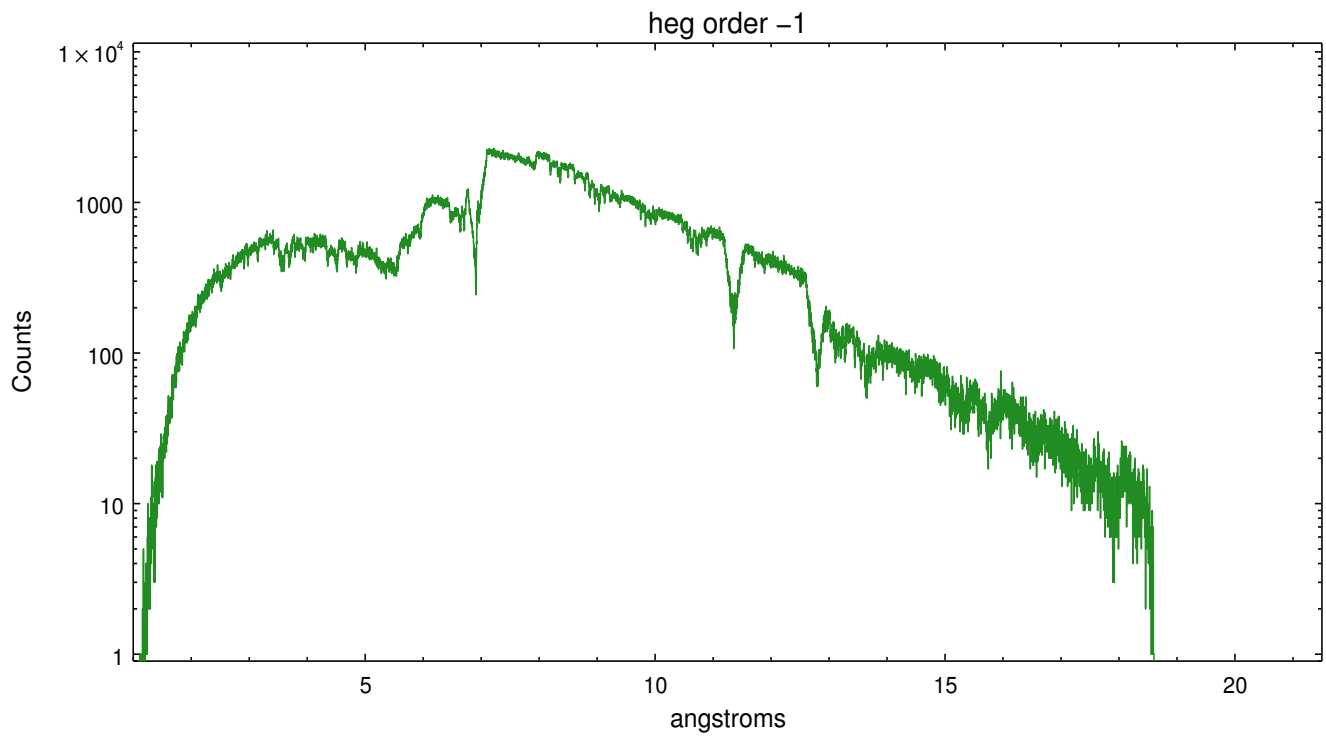
Spot Image HEG



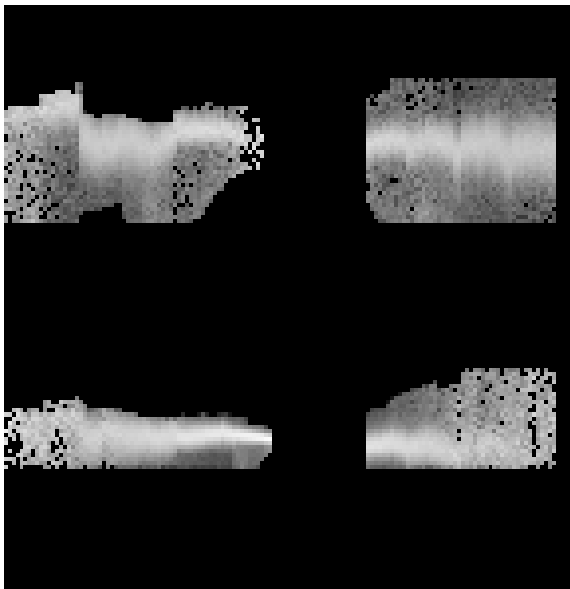
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	127673	551287	3616418	74541	2366305	207935	42463

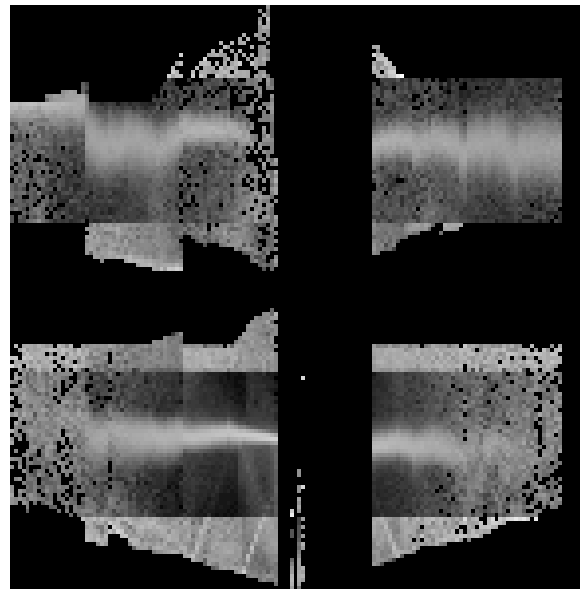




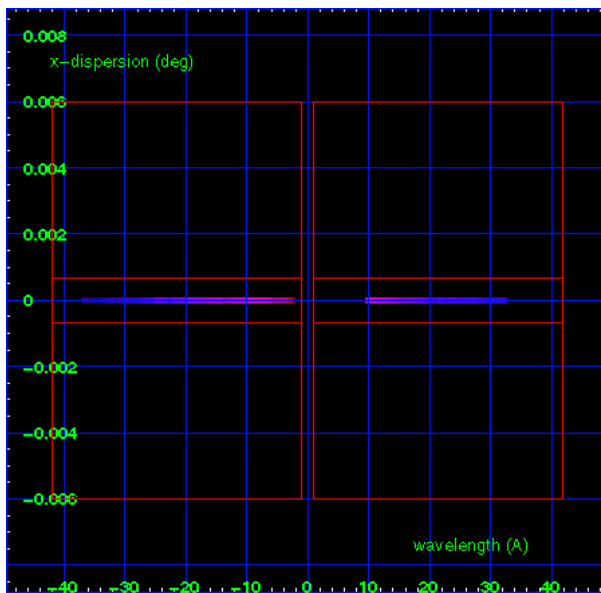
3.2 MEG Arm



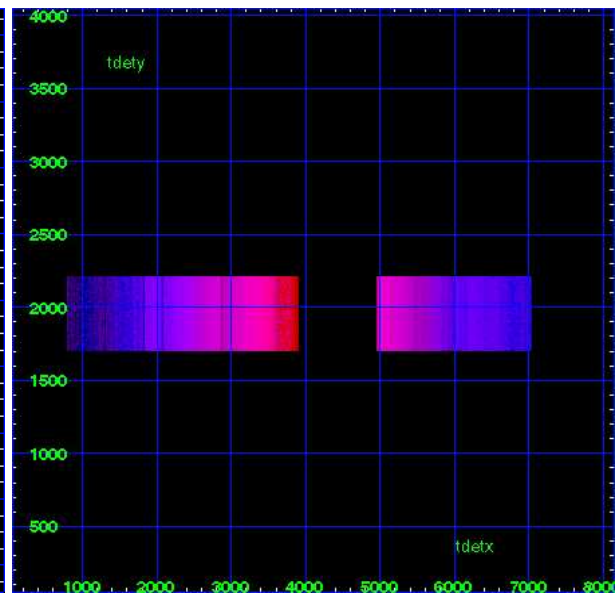
MEG Order Sort 123



MEG Order Sort ALL

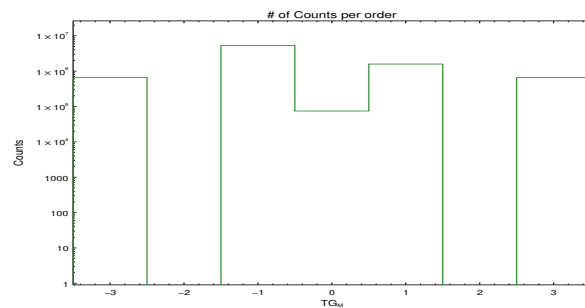


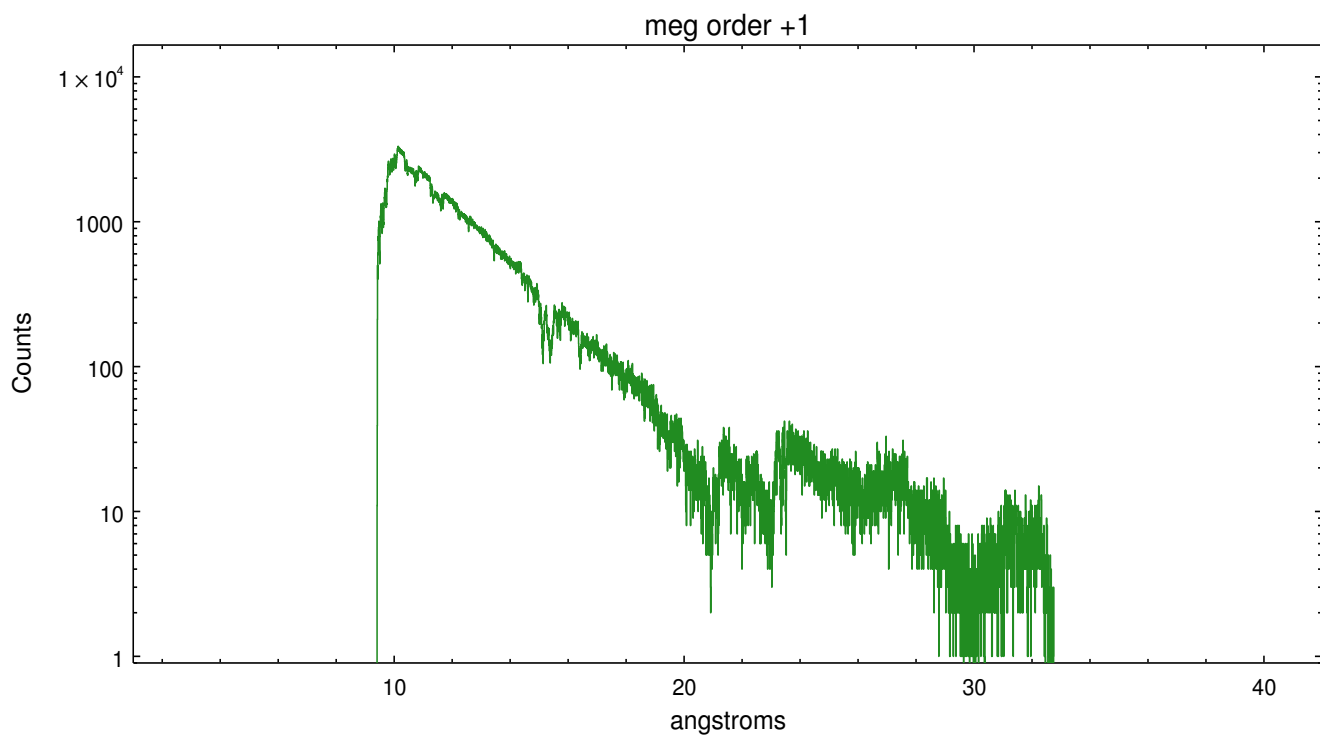
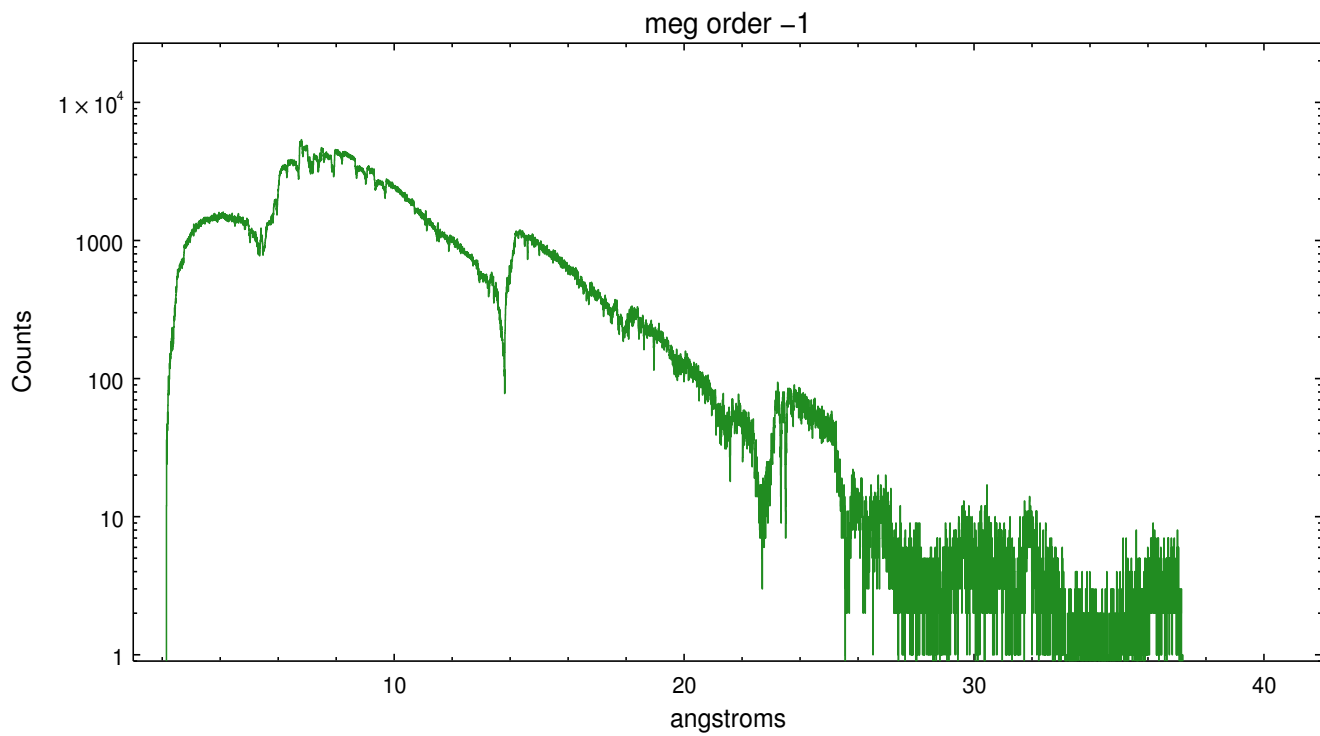
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	668165	0	5278962	74541	1586404	0	659778





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.58

A.2 Comments