

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6634 - L2 Version 2
Chandra X-Ray Center

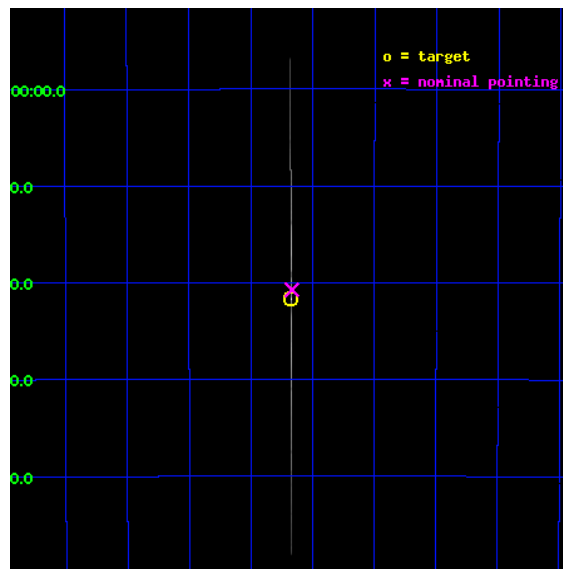
L2 Processing Date : Jun 8 2012

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1 Front

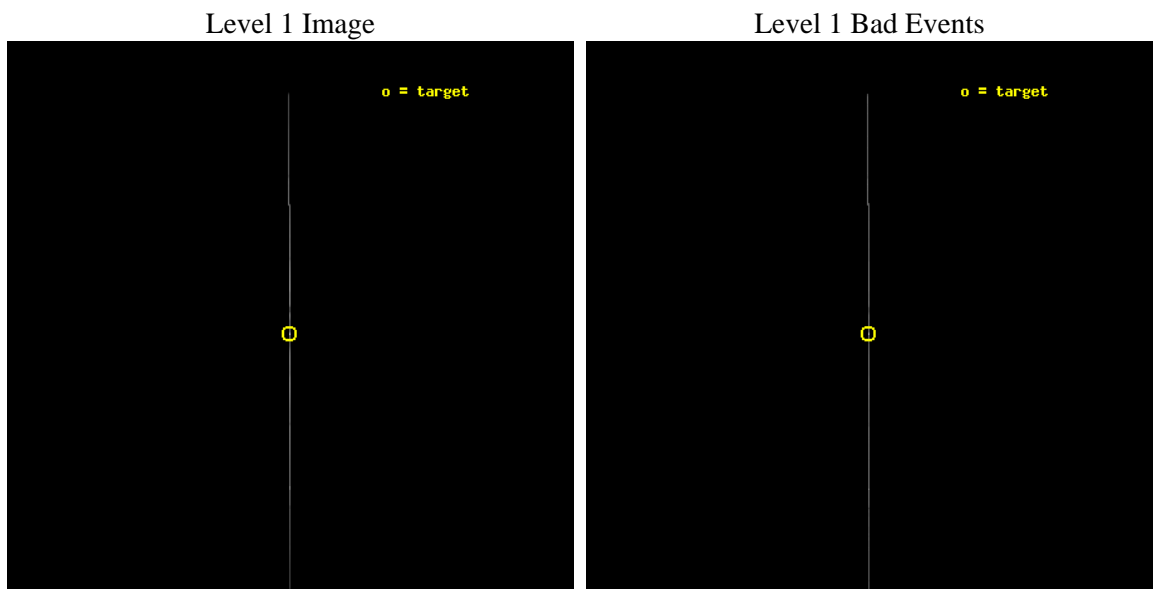
seq_num	400539	Sequence number
obs_id	6634	Observation id
title	CHAZSS: The Chandra HETGS Atoll/Z Spectroscopic Survey	Proposal ti
observer	Dr Jon Miller	Principal investigator
object	4U 1820-30	Source name
ra_targ	275.91875	Observer's specified target RA [deg]
dec_targ	-30.361111	Observer's specified target Dec [deg]
ra_nom	275.91689742508	Nominal RA [deg]
dec_nom	-30.345698323581	Nominal Dec [deg]
roll_nom	269.83802780759	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25132.75	Sum of GTIs [s]
livetime	25034.575195312	Livetime [s]
ontime4	25132.75	Sum of GTIs [s]
ontime5	25132.75	Sum of GTIs [s]
ontime6	25132.75	Sum of GTIs [s]
ontime7	25132.75	Sum of GTIs [s]
ontime8	25132.75	Sum of GTIs [s]
ontime9	25132.75	Sum of GTIs [s]
l2events	6807809	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	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	25132.75	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	25132.75	Sum of GTIs [s]
date	2012-04-11T17:36:14	Date and time of file creation	ontime5	25132.75	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	25132.75	Sum of GTIs [s]
			ontime7	25132.75	Sum of GTIs [s]
			ontime8	25132.75	Sum of GTIs [s]
			ontime9	25132.75	Sum of GTIs [s]
			l1events	7641162	Number of level 1 events

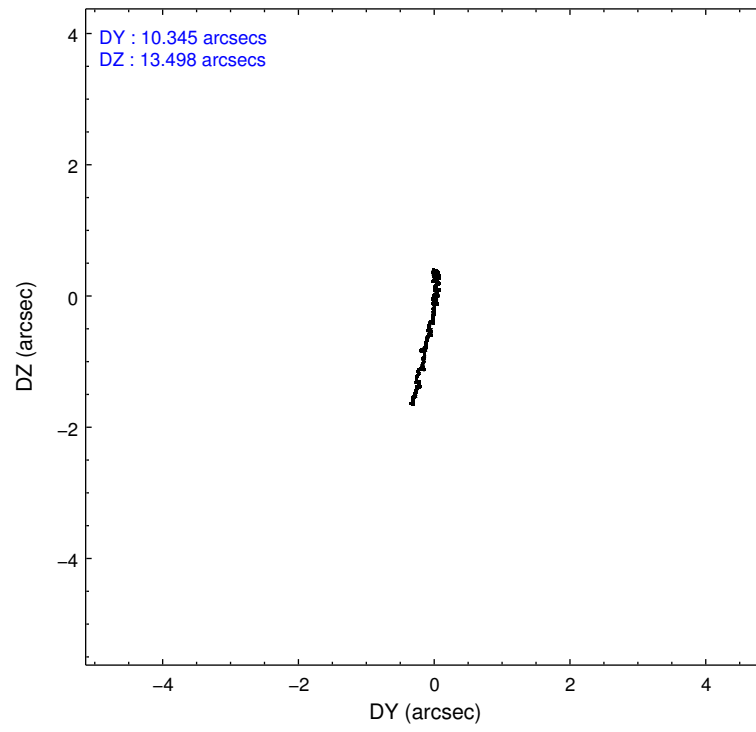
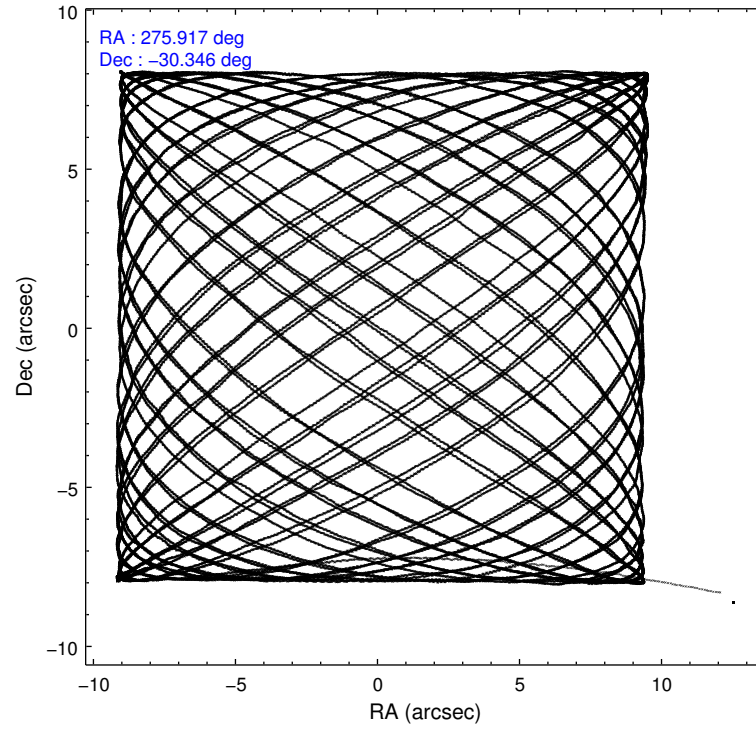
2.1.3 Events

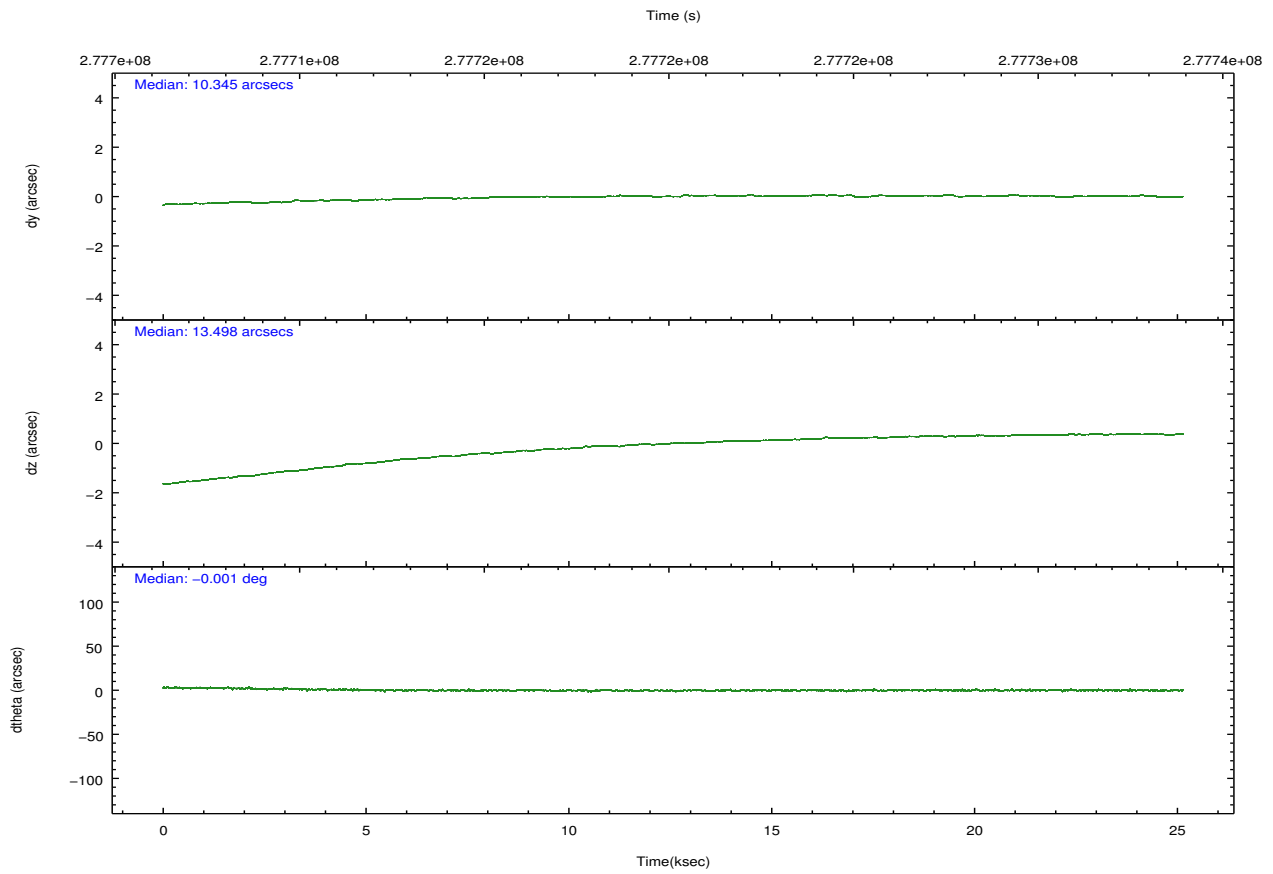
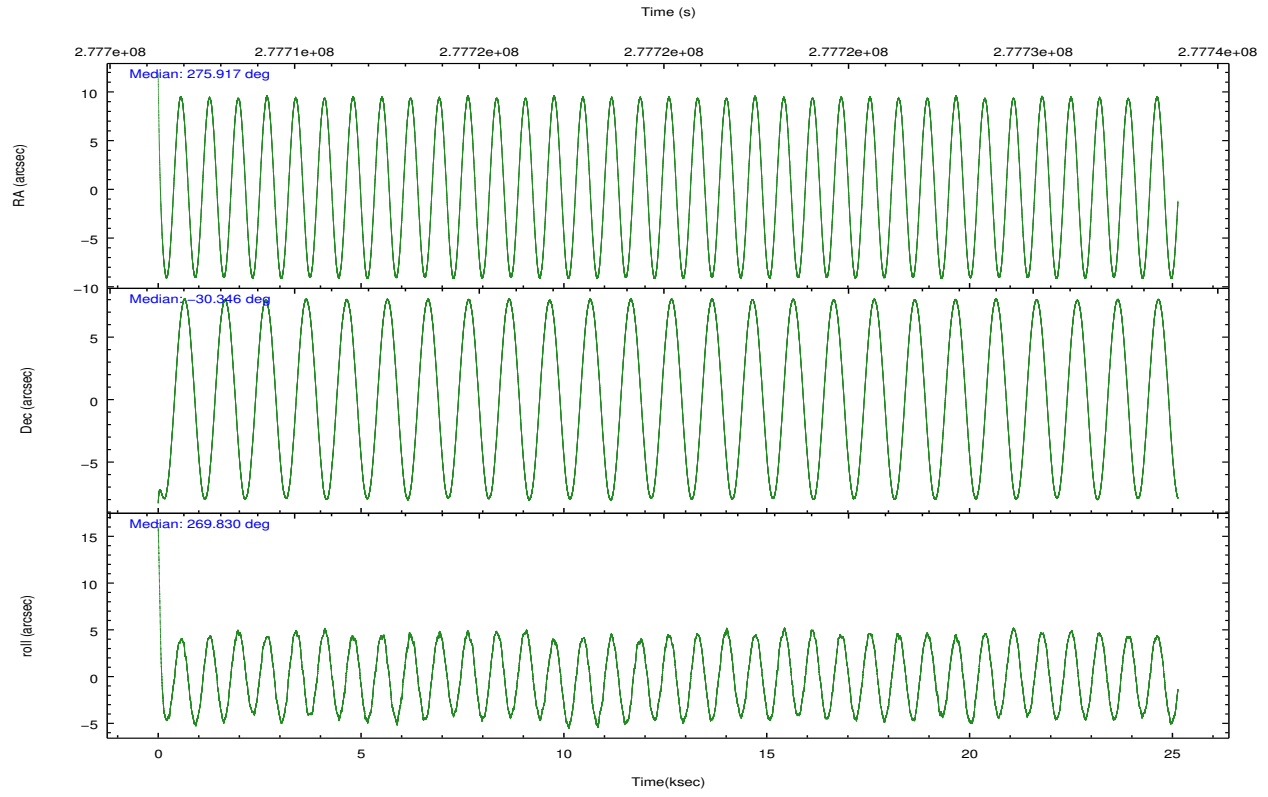
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	164815	851086	1991417	3675266	779649	178929	grade 0 events	39631	167053	406581	524315	448742	41720
rejected events	16251	55268	44224	250222	29603	15977		24%	19%	20%	14%	57%	23%
rejected %	9%	6%	2%	6%	3%	8%	grade 1 events	278	391	1025	25150	1299	314
								0%	0%	0%	0%	0%	0%
							grade 2 events	85699	339982	1333147	1011240	215477	94552
								51%	39%	66%	27%	27%	52%
							grade 3 events	7221	35095	22517	269864	26342	6392
								4%	4%	1%	7%	3%	3%
							grade 4 events	7433	34583	22194	270832	25870	6764
								4%	4%	1%	7%	3%	3%
							grade 5 events	9276	27405	20981	192670	16978	11348
								5%	3%	1%	5%	2%	6%
							grade 6 events	15277	246577	184972	1381195	44941	17839
								9%	28%	9%	37%	5%	9%
							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	275.900847	275.9168974250774	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.322242	-30.34569832358145	Alternating exposures requested	N	N
[deg] Pointing Roll	269.673290	269.8380278075943	[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	-183.992523	-183.985022191653			
[mm] SIM translation stage offset	-6.14	-6.147500391354811			
[s] Observation start time (MET)	277707688.184000	277705727.83278			
Observation start date	2006-10-20T05:00:23	2006-10-20T04:28:47			
[s] Observation end time (MET)	277732688.184000	277733576.5716			
Observation end date	2006-10-20T11:57:03	2006-10-20T12:12:56			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



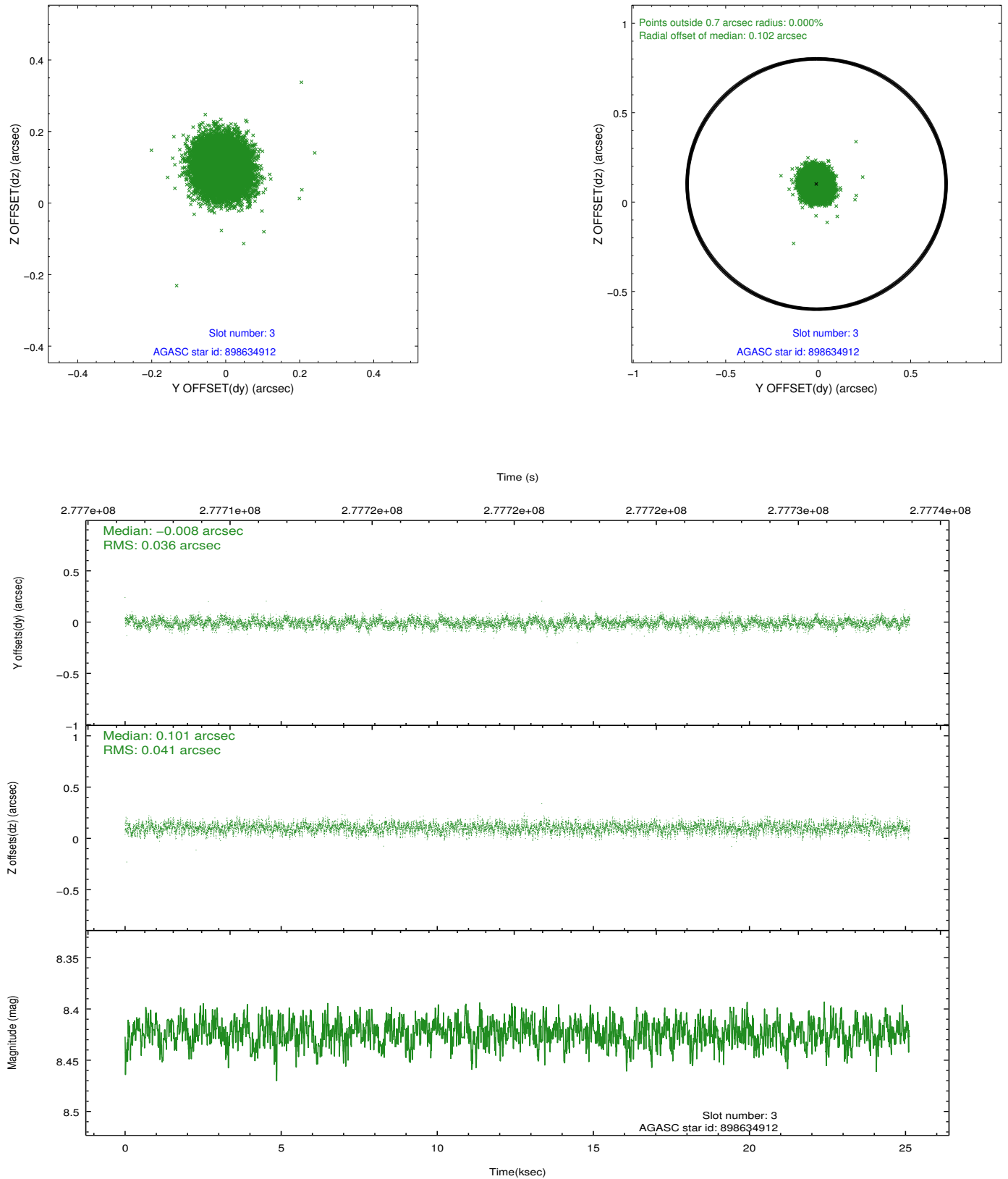


Slot Statistics

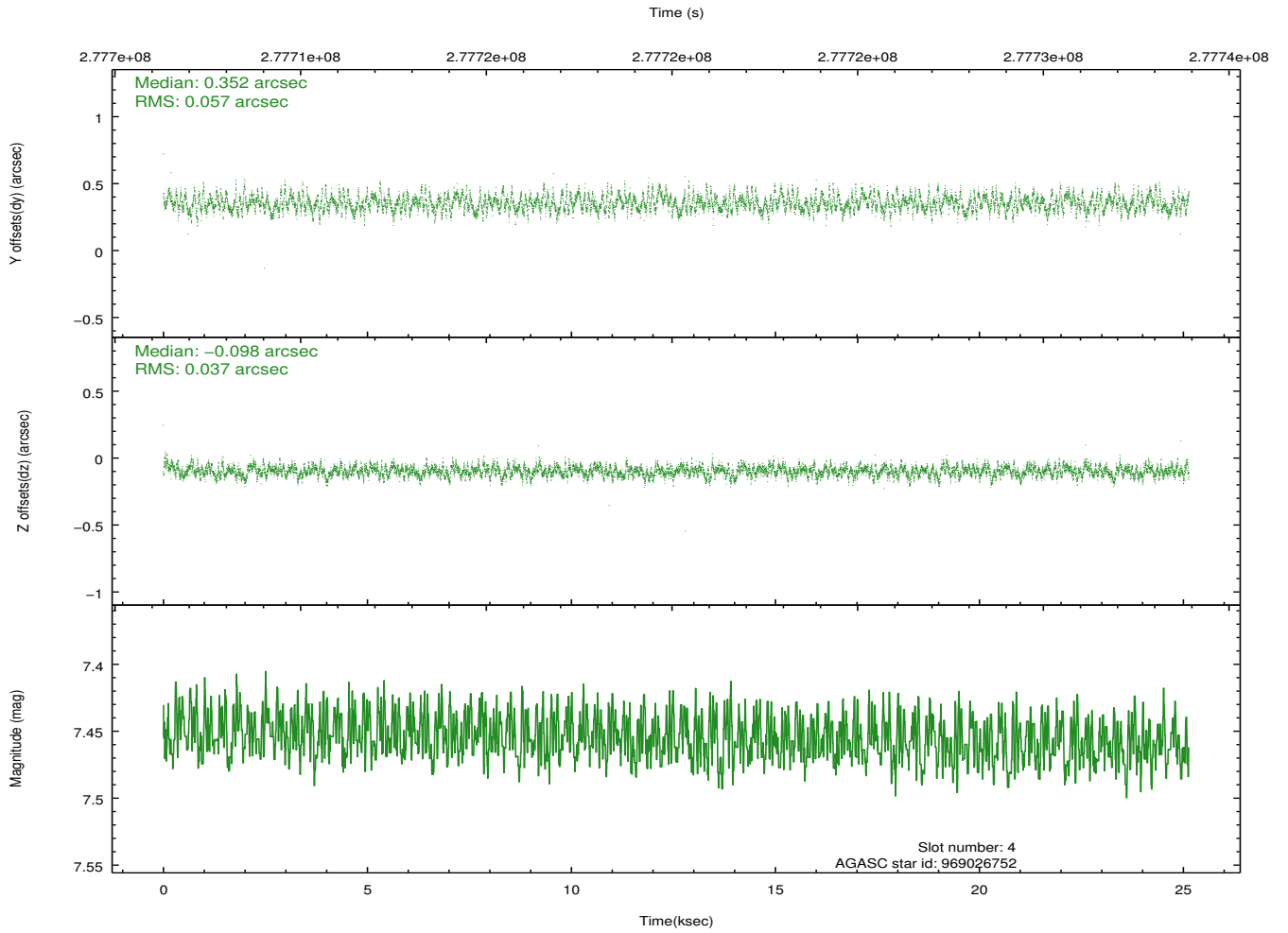
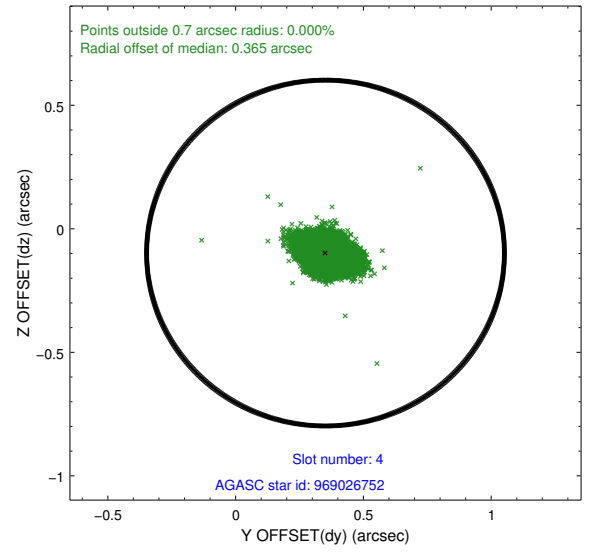
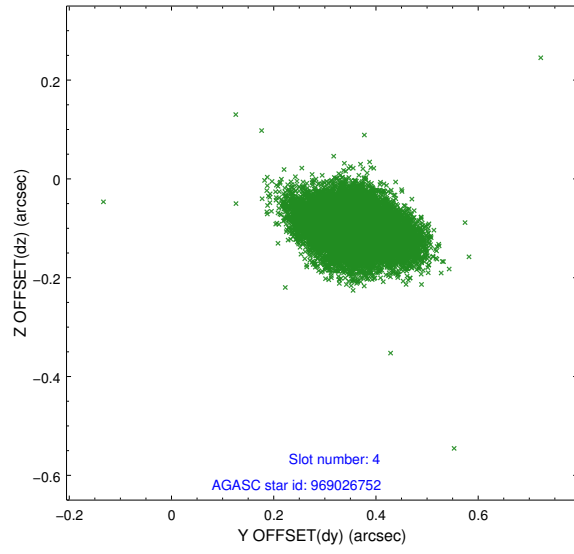
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	6132	-0.025	-0.073	0.015	0.026	0.000000	0.000000	-762.82	-1861.35
1	FID	ACIS-S-5	7.23	6131	-0.091	0.001	0.012	0.032	0.000000	0.000000	-1815.97	40.59
2	FID	ACIS-S-6	7.40	6131	0.089	0.078	0.010	0.016	0.000000	0.000000	398.89	684.60
3	GUIDE	898634912	8.42	12257	-0.008	0.101	0.059	0.093	275.480072	-29.835888	-1740.42	-1323.94
4	GUIDE	969026752	7.46	12256	0.352	-0.098	0.071	0.118	275.318545	-30.941468	2244.95	-1784.97
5	GUIDE	969019728	8.27	12259	-0.179	0.001	0.069	0.106	275.177360	-30.122339	-698.97	-2256.87
6	GUIDE	969019560	8.11	12258	-0.058	0.021	0.050	0.083	275.384365	-30.637201	1147.29	-1593.14
7	GUIDE	969026168	6.91	12261	-0.109	-0.028	0.070	0.111	276.670048	-30.393325	250.78	2390.21

2.4 Star Slots

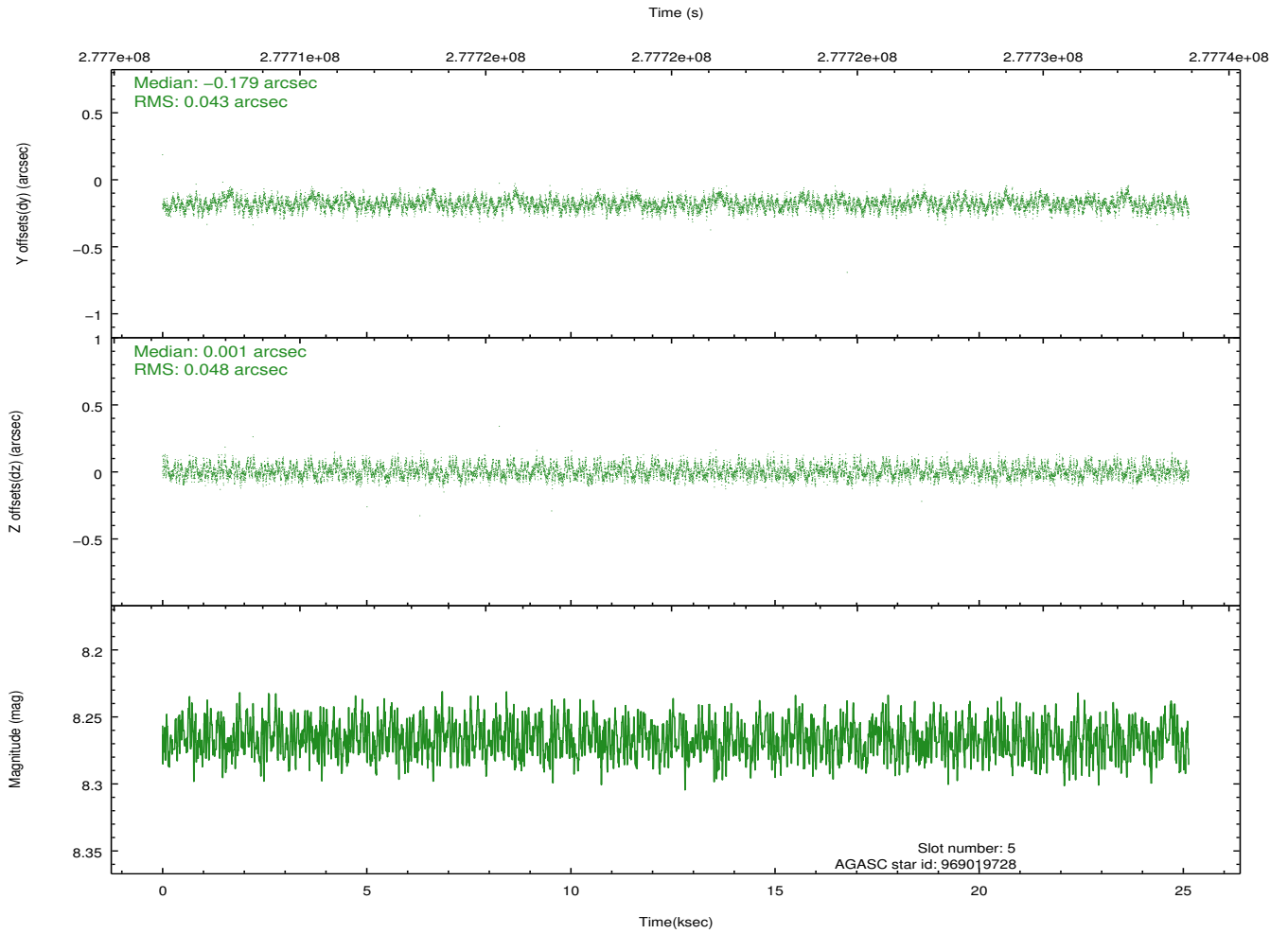
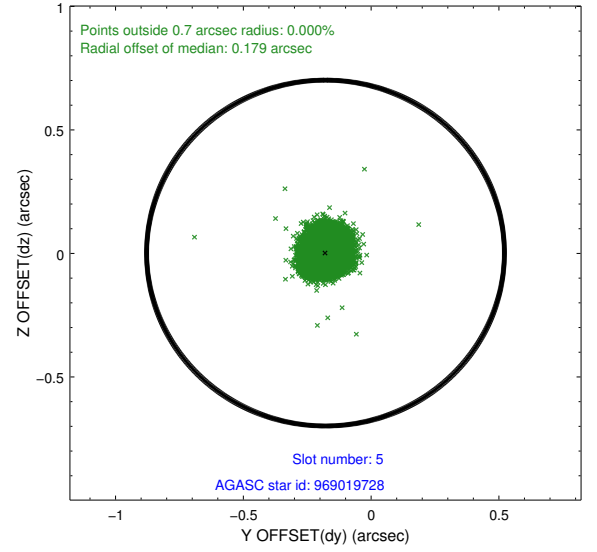
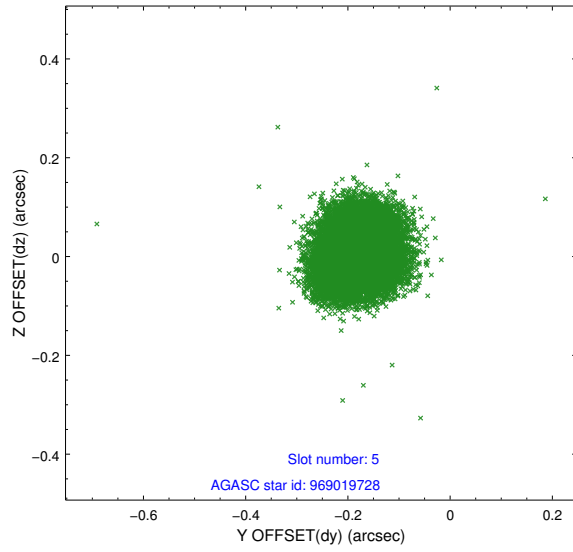
2.4.1 Slot 3



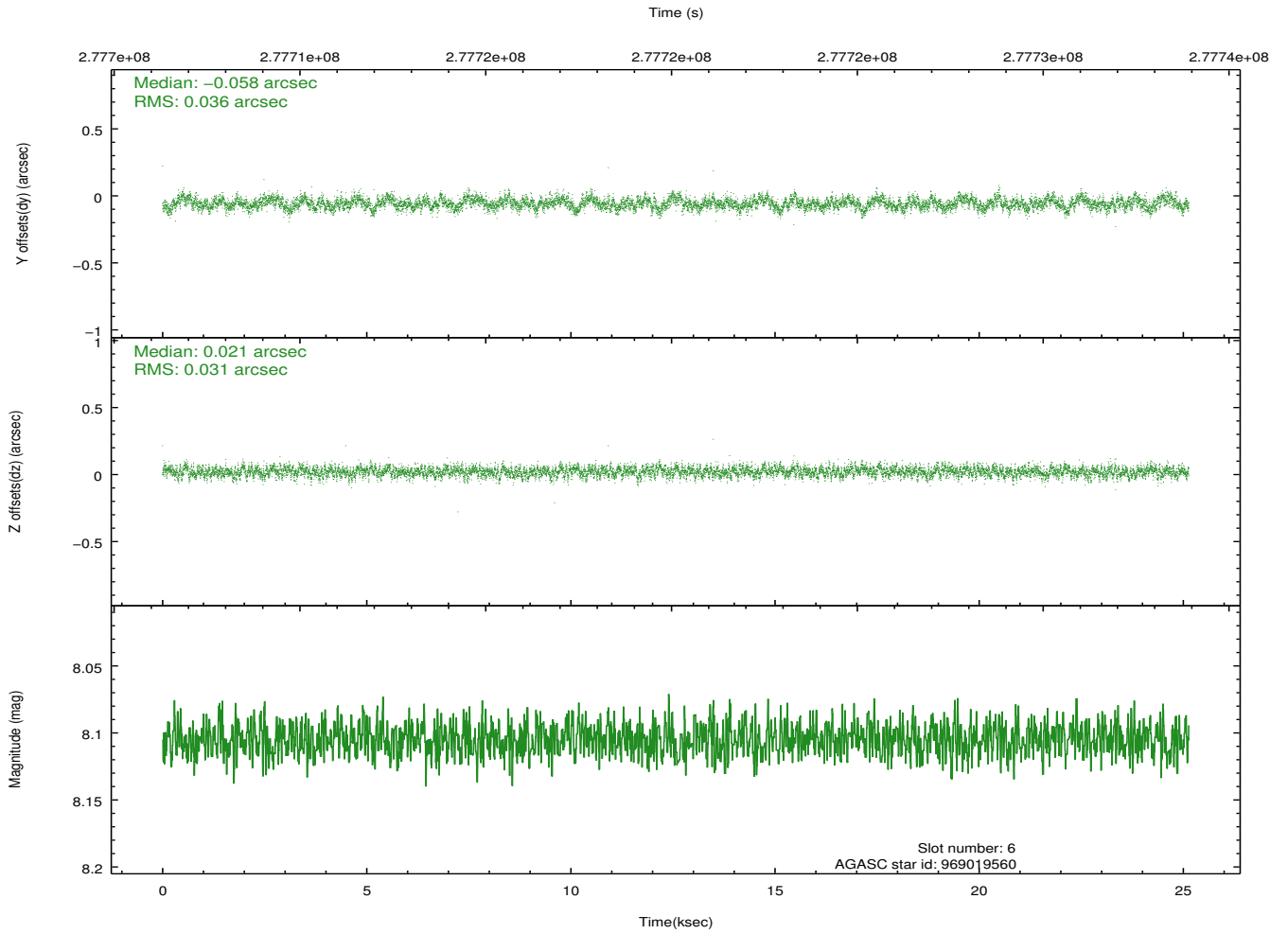
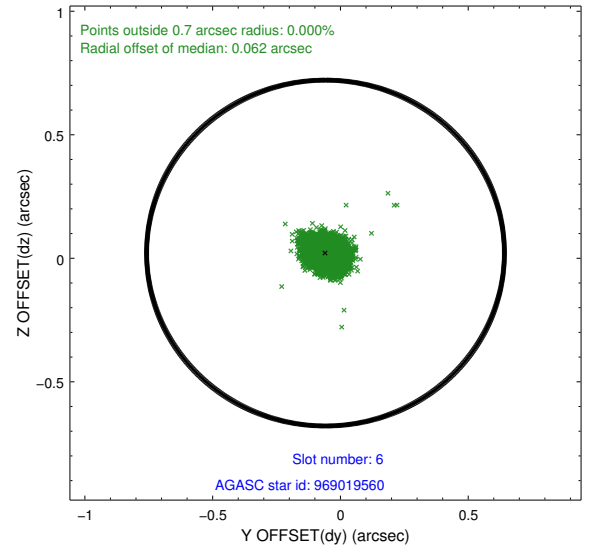
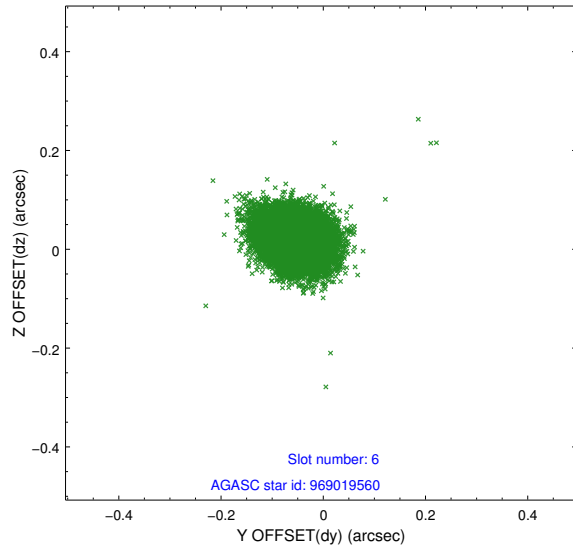
2.4.2 Slot 4



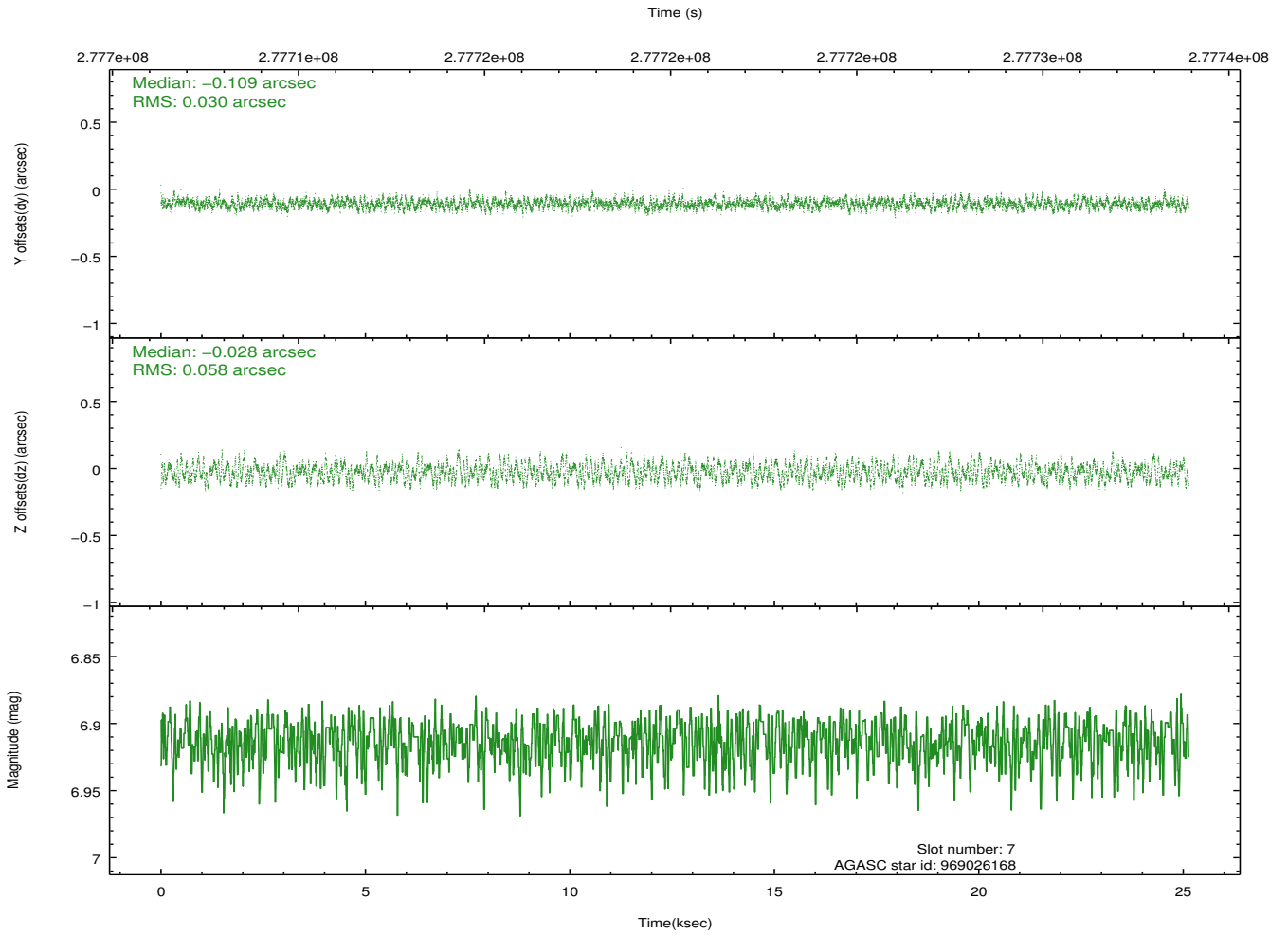
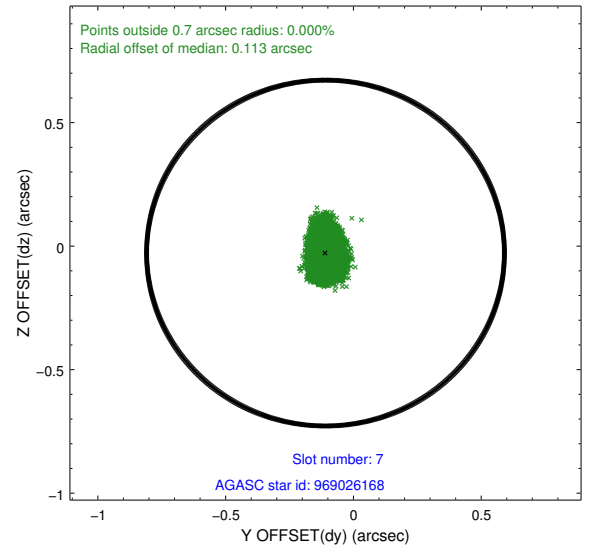
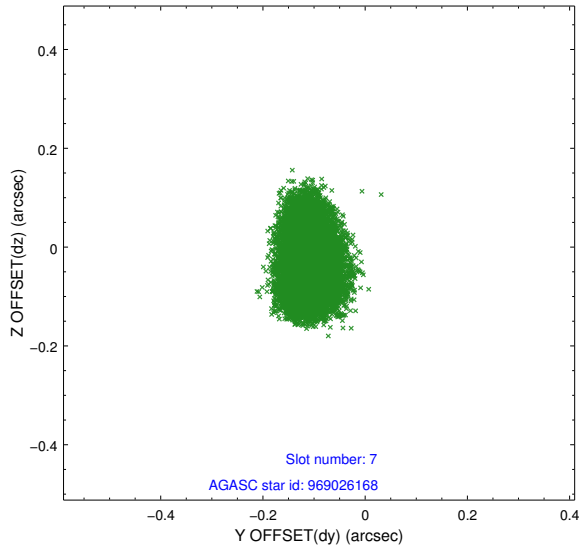
2.4.3 Slot 5



2.4.4 Slot 6

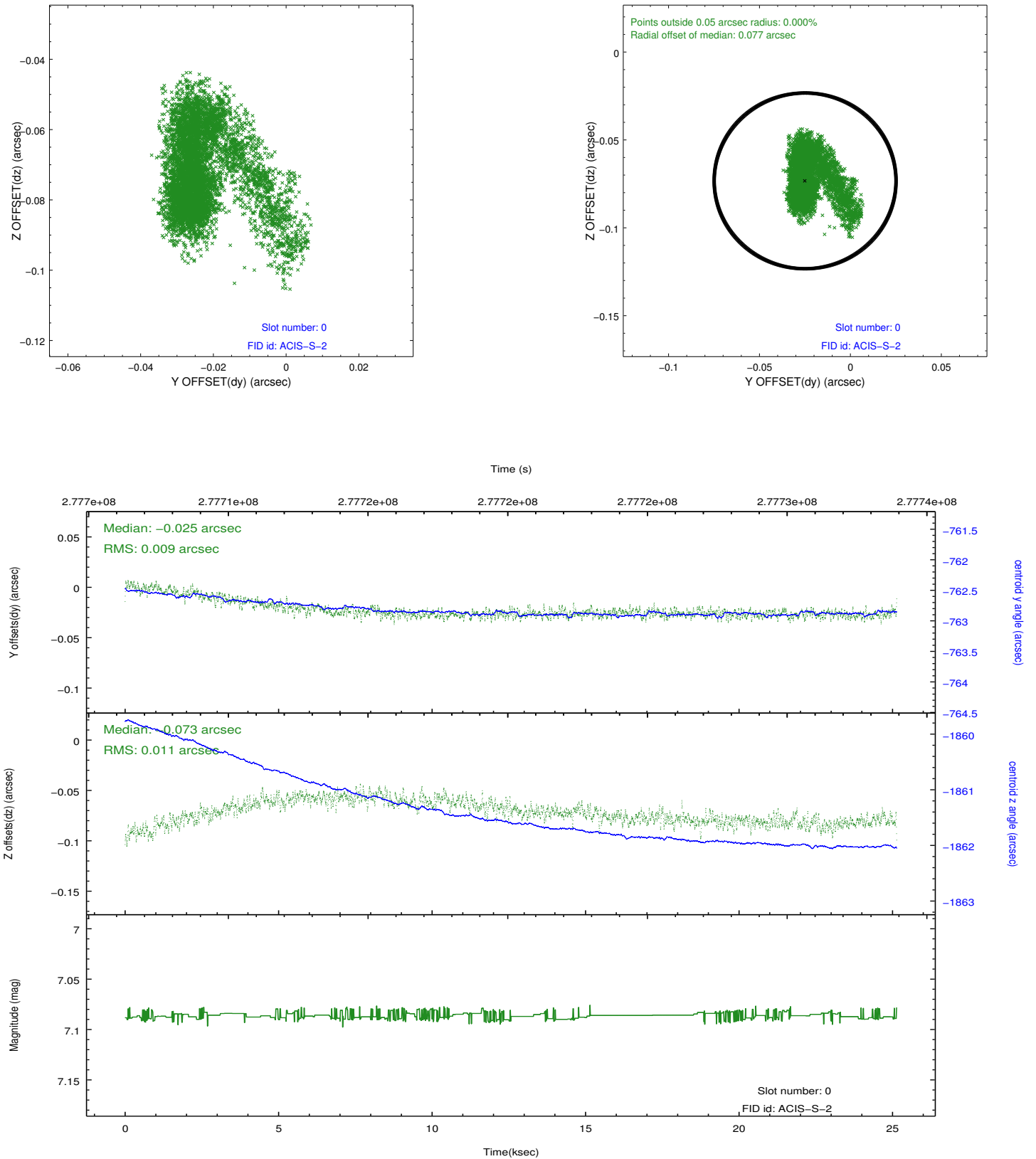


2.4.5 Slot 7

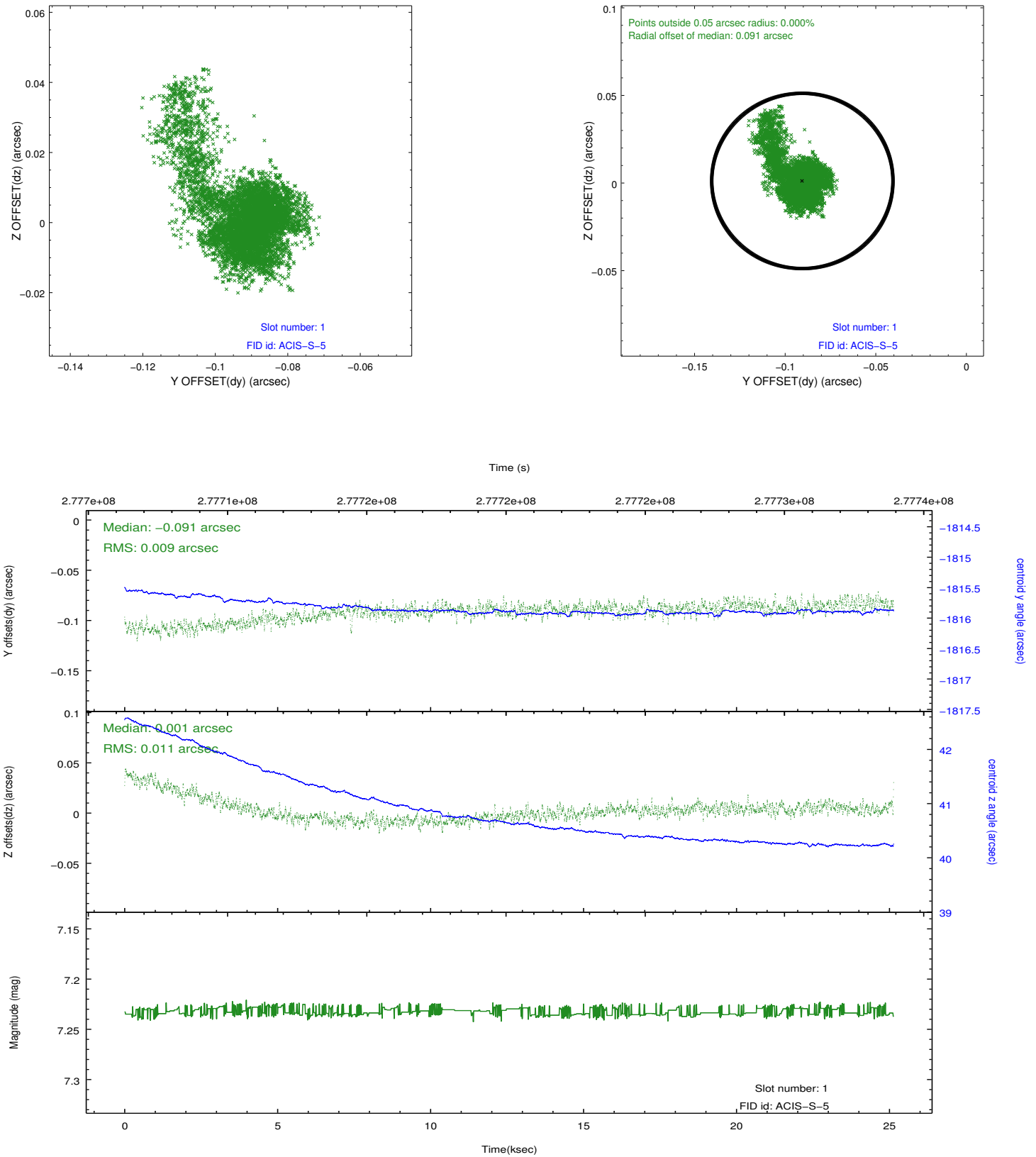


2.5 FID Slots

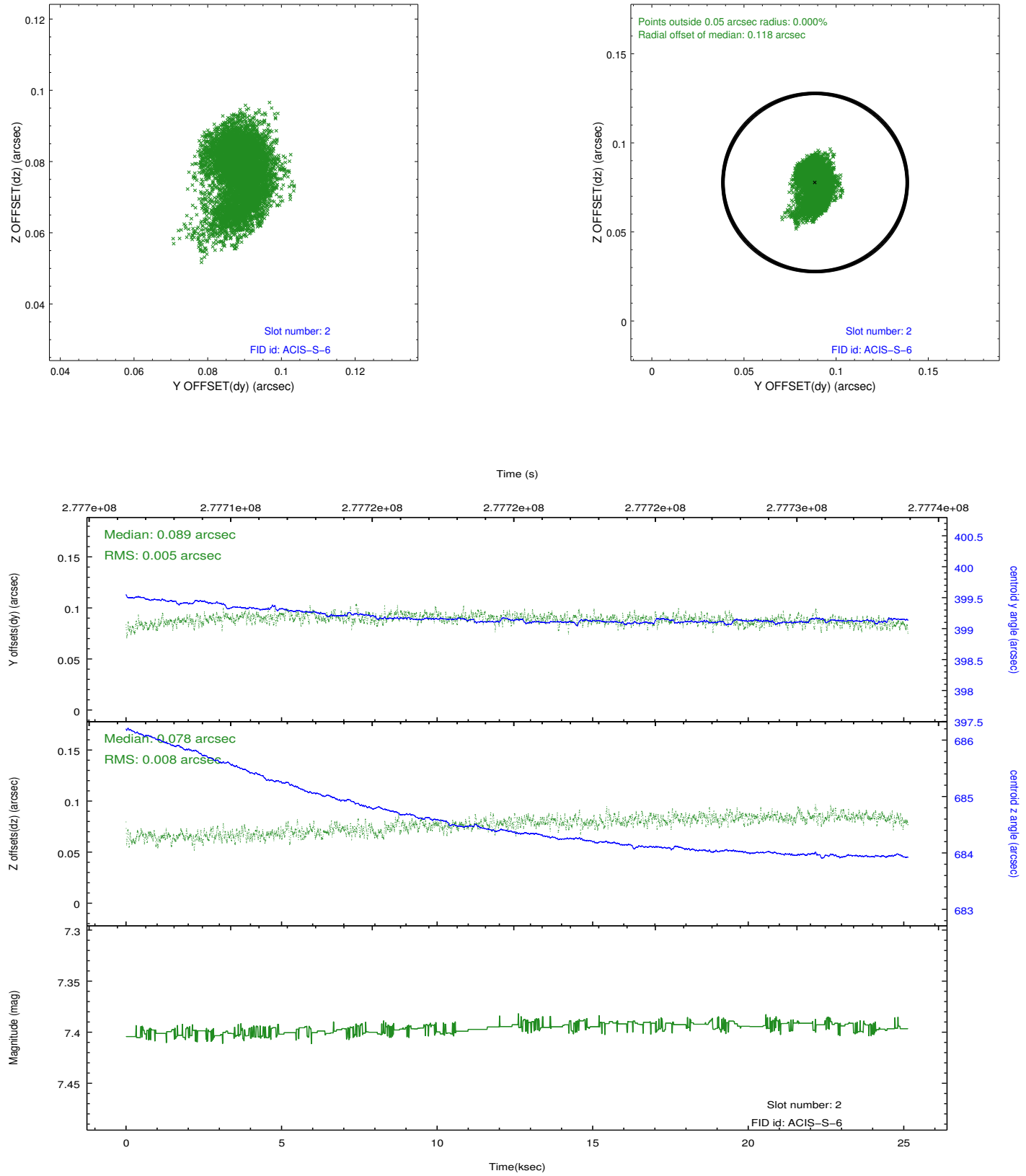
2.5.1 Slot 0



2.5.2 Slot 1

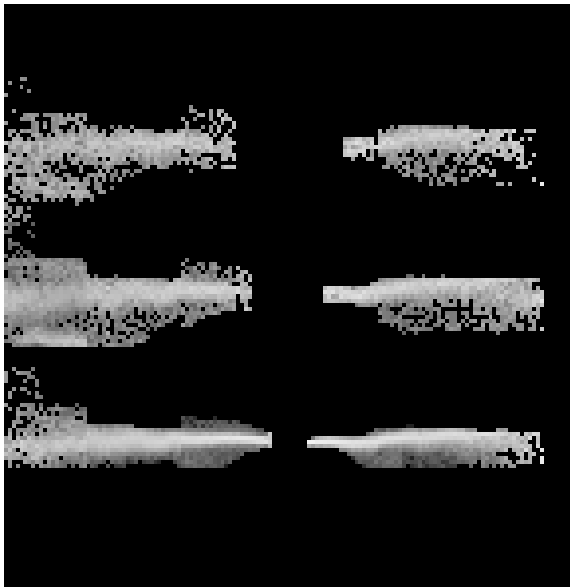


2.5.3 Slot 2

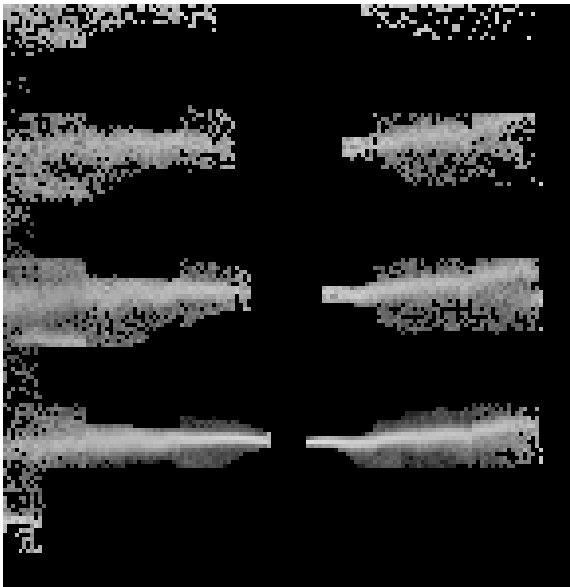


3 Gratings

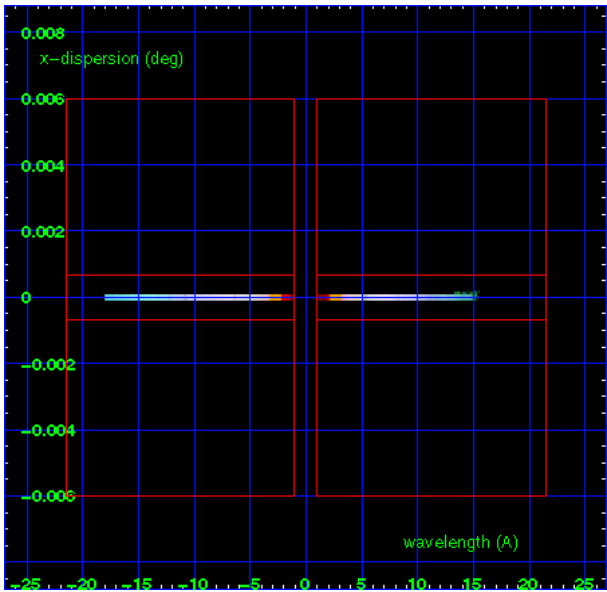
3.1 HEG Arm



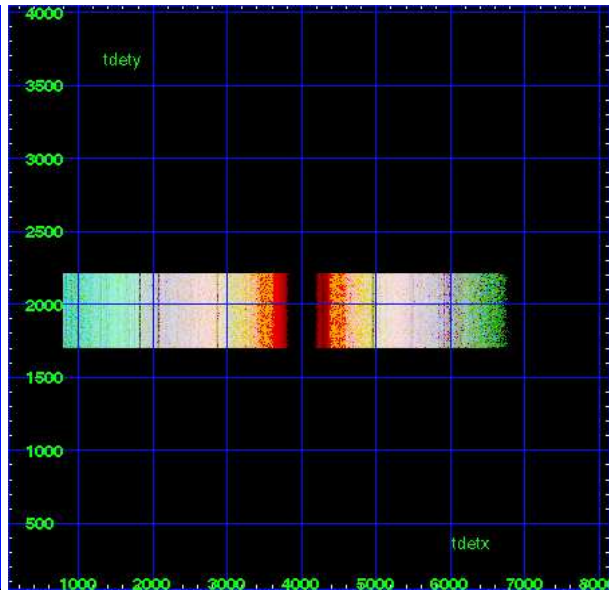
HEG Order Sort 123



HEG Order Sort ALL

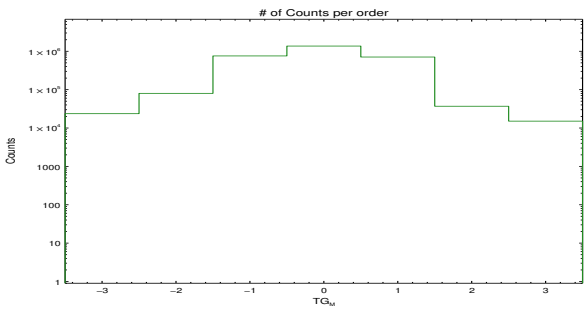


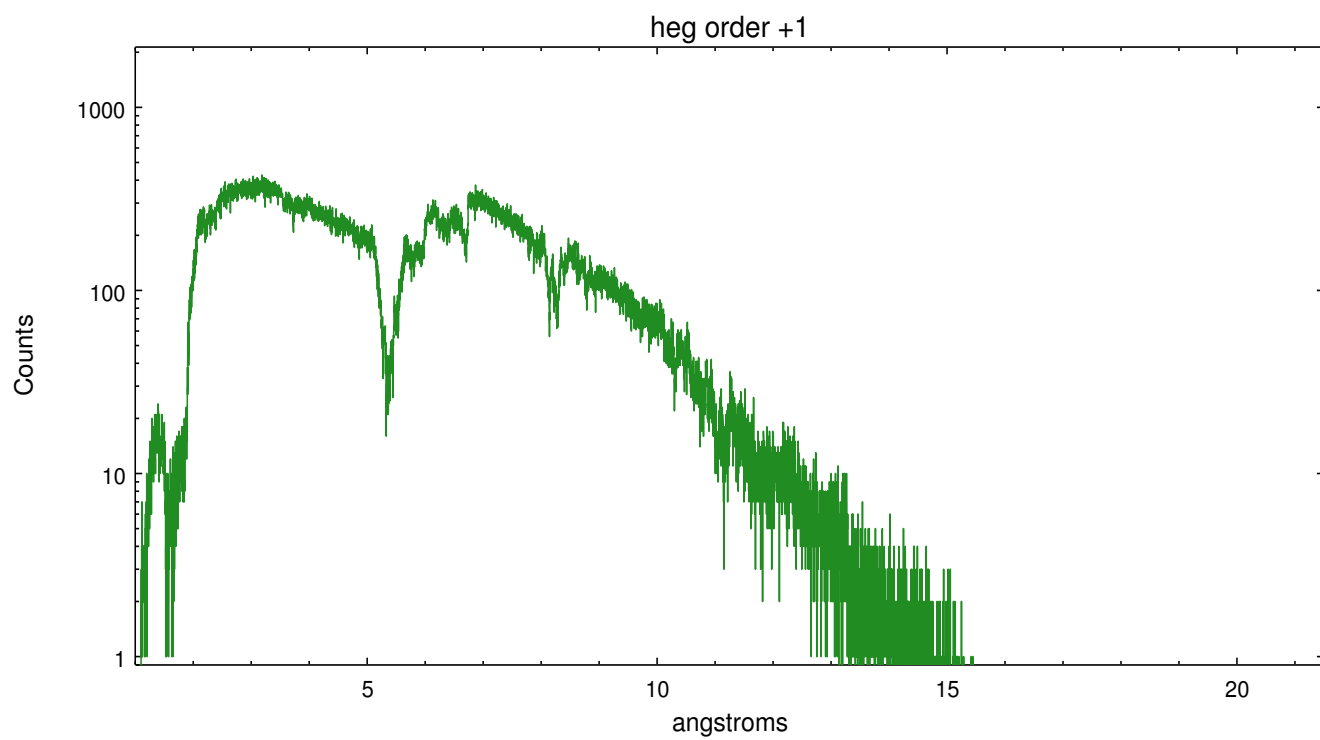
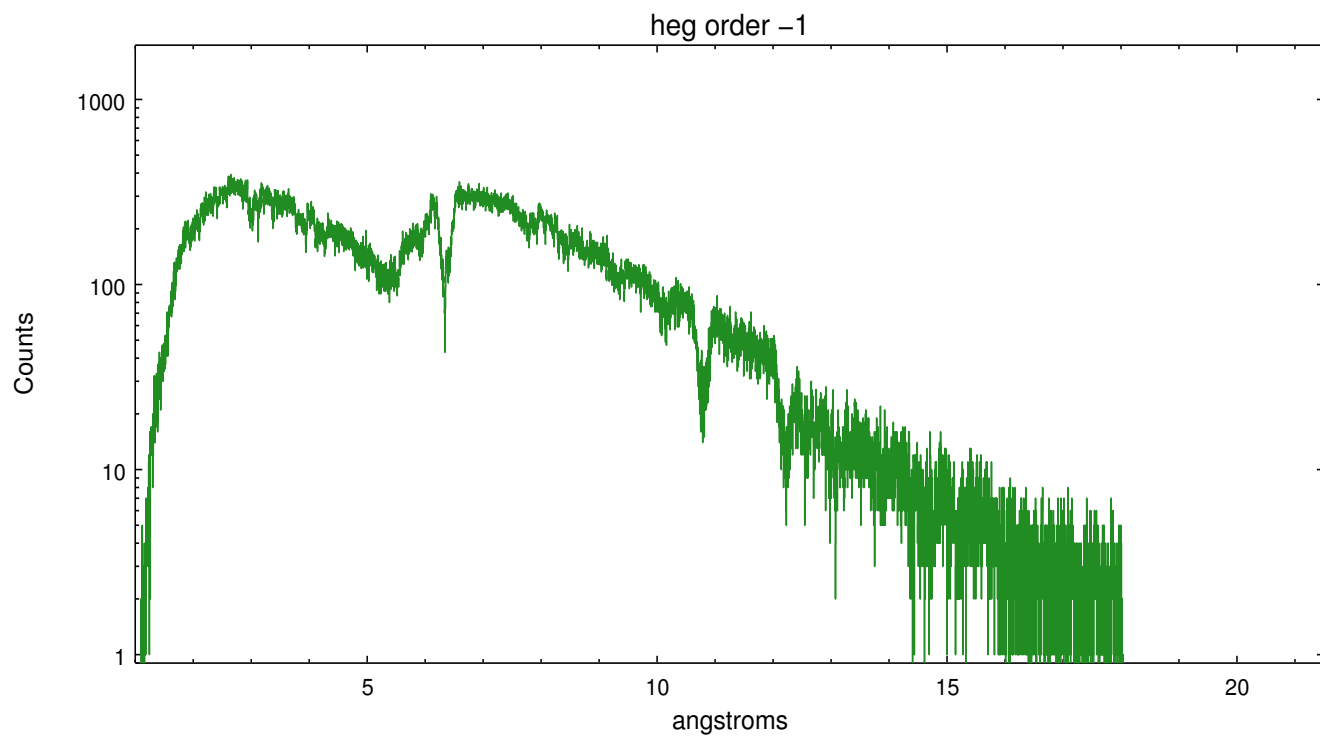
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	23672	80030	757219	1368344	708607	36933	15104

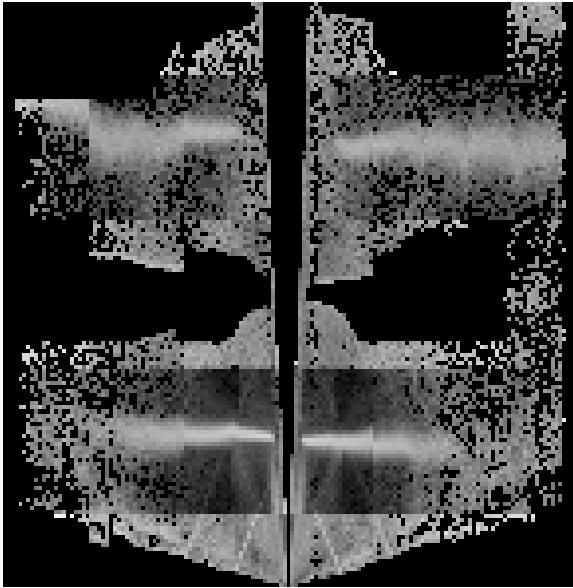




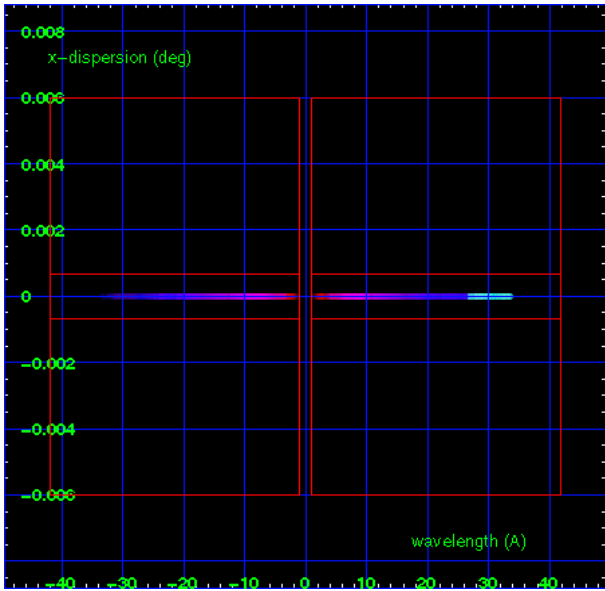
3.2 MEG Arm



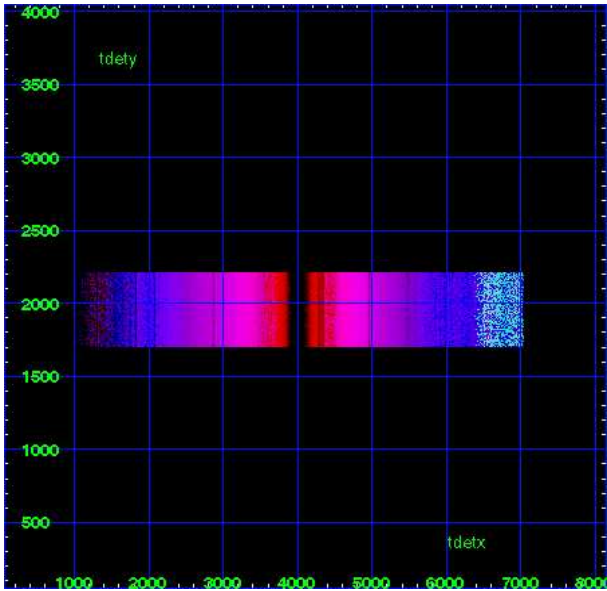
MEG Order Sort 123



MEG Order Sort ALL

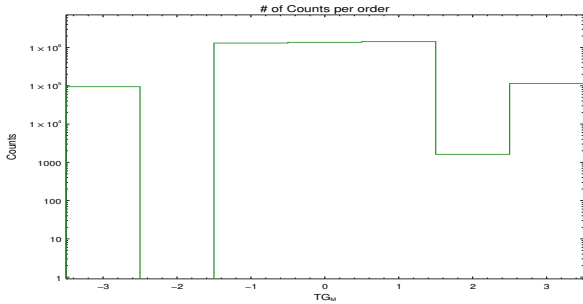


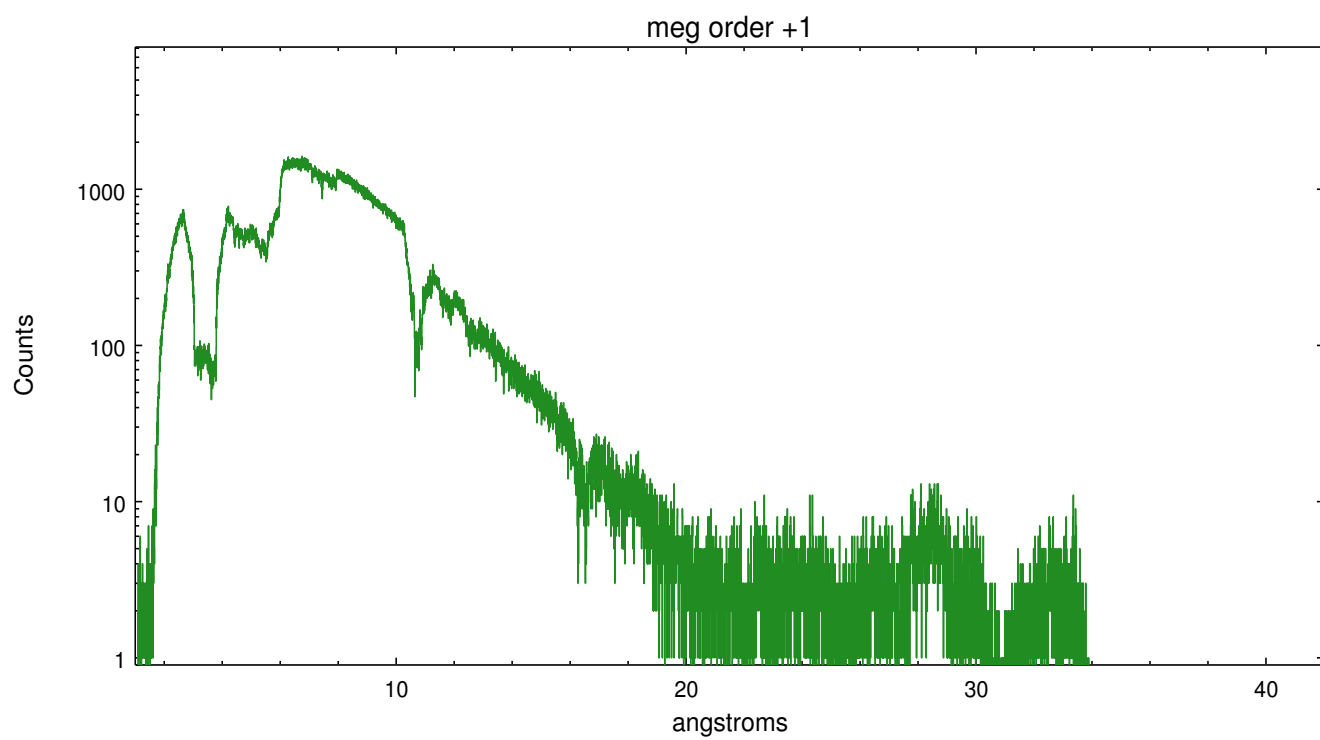
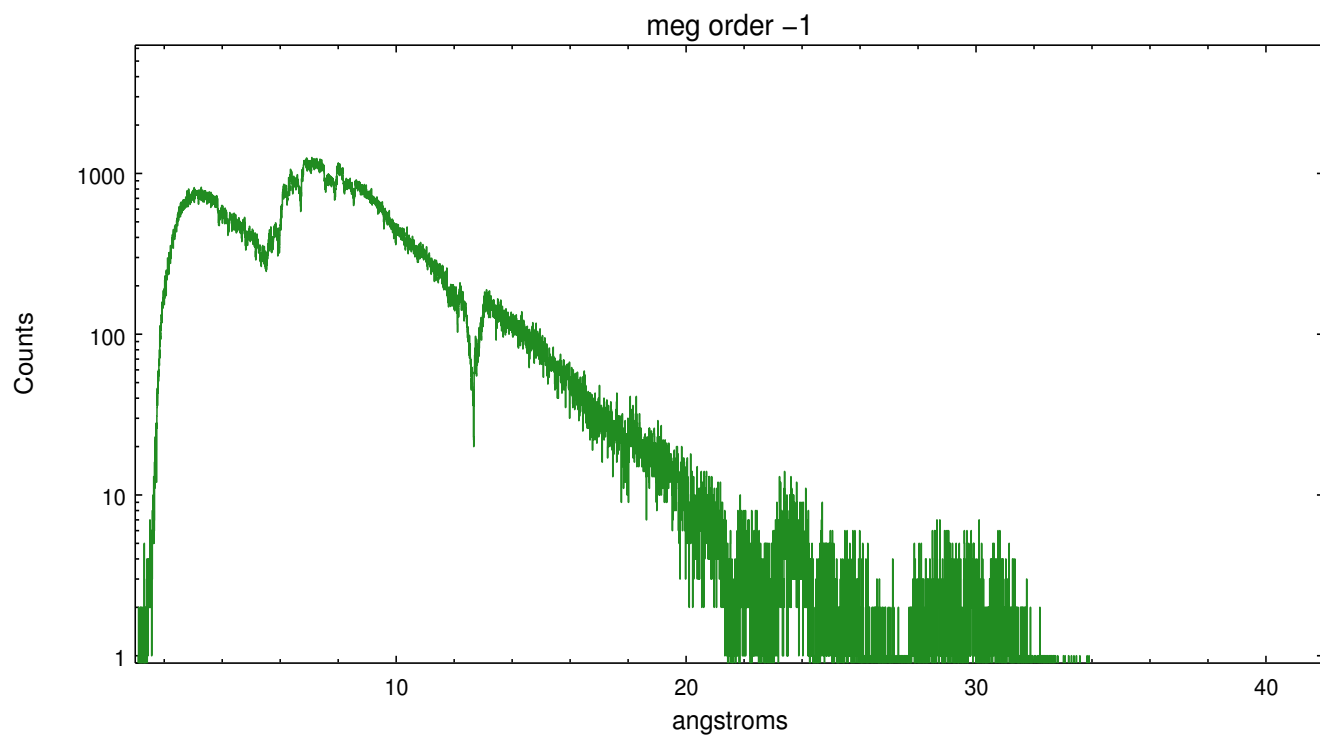
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	94653	0	1309507	1368344	1425917	1620	114485





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.13275

A.2 Comments