

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4376 - L2 Version 3
Chandra X-Ray Center

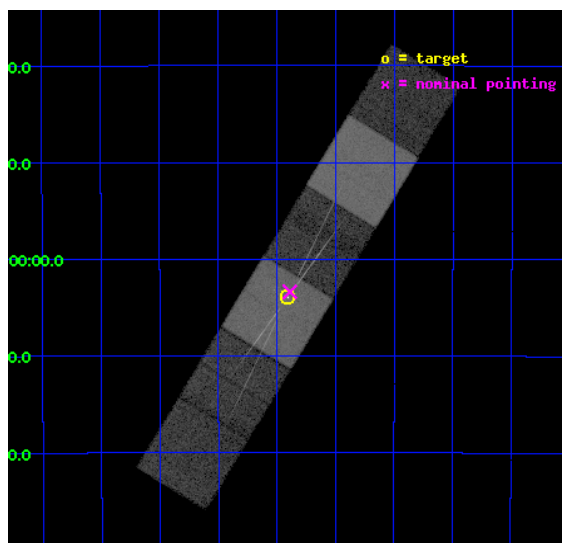
L2 Processing Date : Oct 29 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

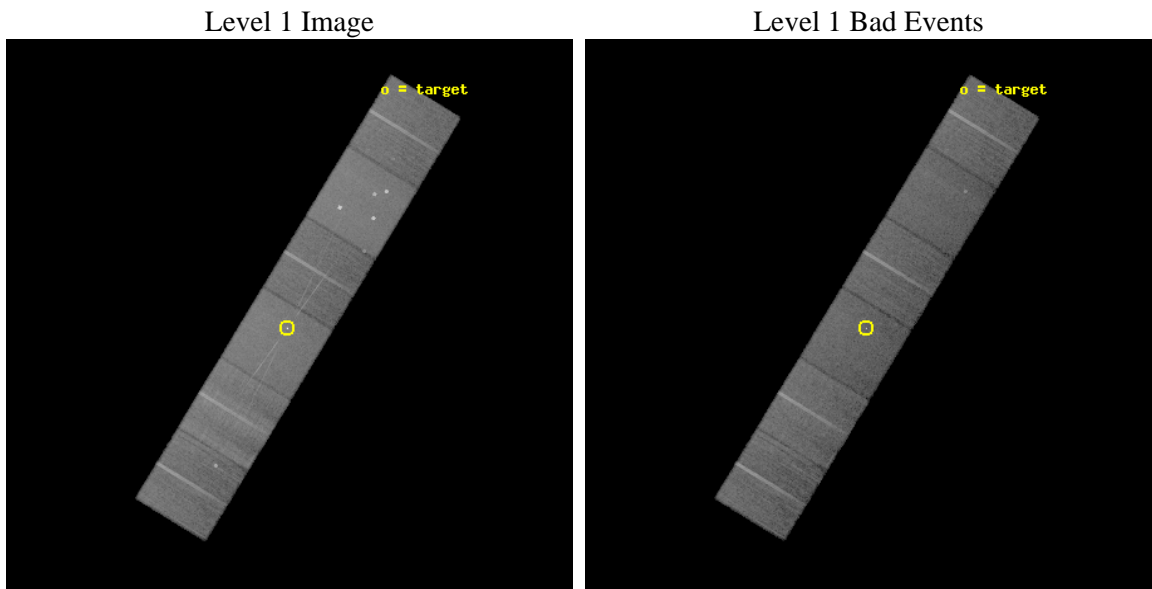
seq_num	700840	Sequence number
obs_id	4376	Observation id
title	SIMULTANEOUS XMM-NEWTON AND CXO/HETGS OBSERVATIONS OF SEYFERT 1 GALAXIES	Proposal title
observer	Dr. Ian George	Principal investigator
object	NGC 526A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	20.976667	Observer's specified target RA [deg]
dec_targ	-35.065472	Observer's specified target Dec [deg]
ra_nom	20.972362925692	Nominal RA [deg]
dec_nom	-35.056438505736	Nominal Dec [deg]
roll_nom	121.33715196909	Nominal Roll [deg]
revision	3	Processing version of data
ontime	29049.599891782	Sum of GTIs [s]
livetime	28681.756366383	Livetime [s]
ontime4	29049.599891782	Sum of GTIs [s]
ontime5	29049.599891782	Sum of GTIs [s]
ontime6	29049.599891782	Sum of GTIs [s]
ontime7	29049.599891782	Sum of GTIs [s]
ontime8	29049.599891782	Sum of GTIs [s]
ontime9	29049.599891782	Sum of GTIs [s]
l2events	278580	Number of level 2 events



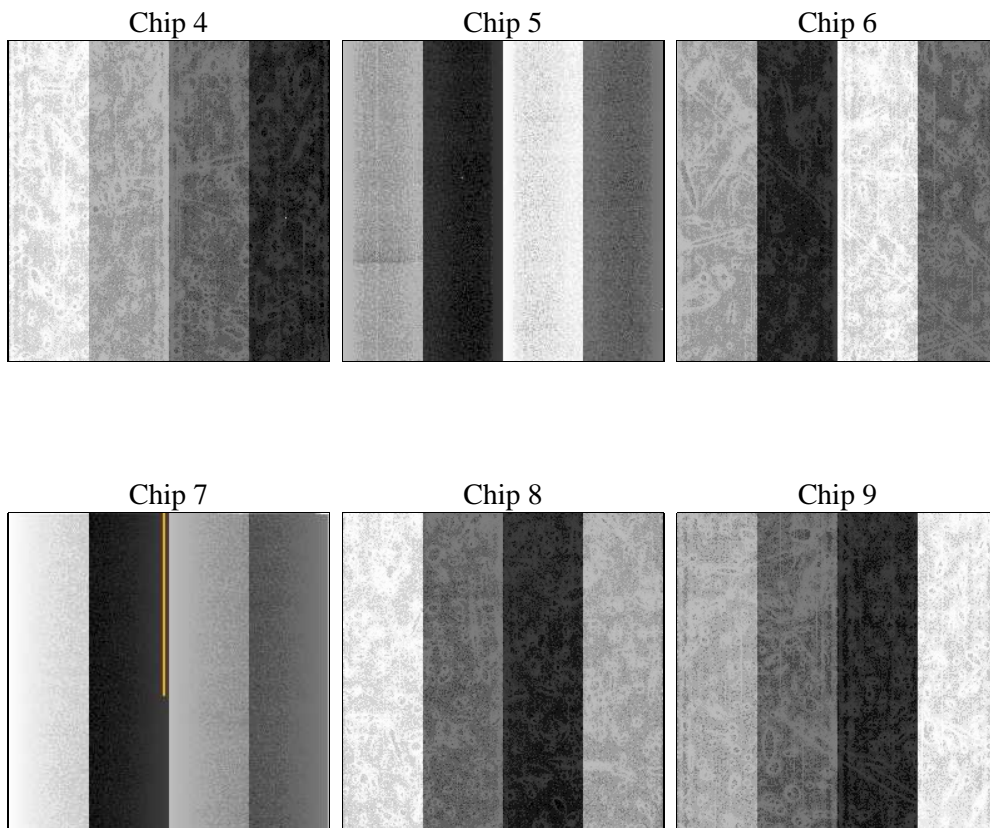
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29317.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	29049.599891782	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	29049.599891782	Sum of GTIs [s]
date	2012-10-29T18:26:19	Date and time of file creation	ontime5	29049.599891782	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	29049.599891782	Sum of GTIs [s]
			ontime7	29049.599891782	Sum of GTIs [s]
			ontime8	29049.599891782	Sum of GTIs [s]
			ontime9	29049.599891782	Sum of GTIs [s]
			l1events	1262548	Number of level 1 events

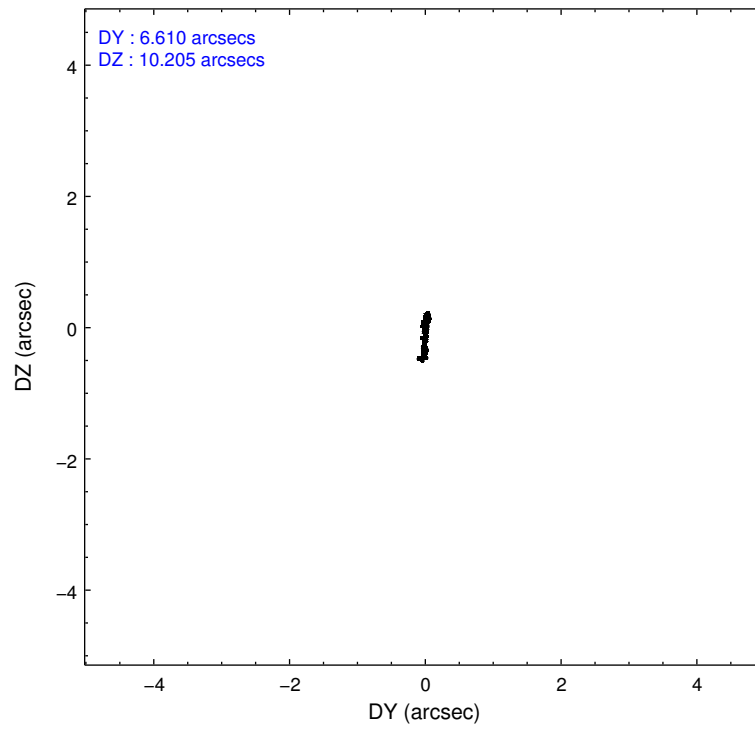
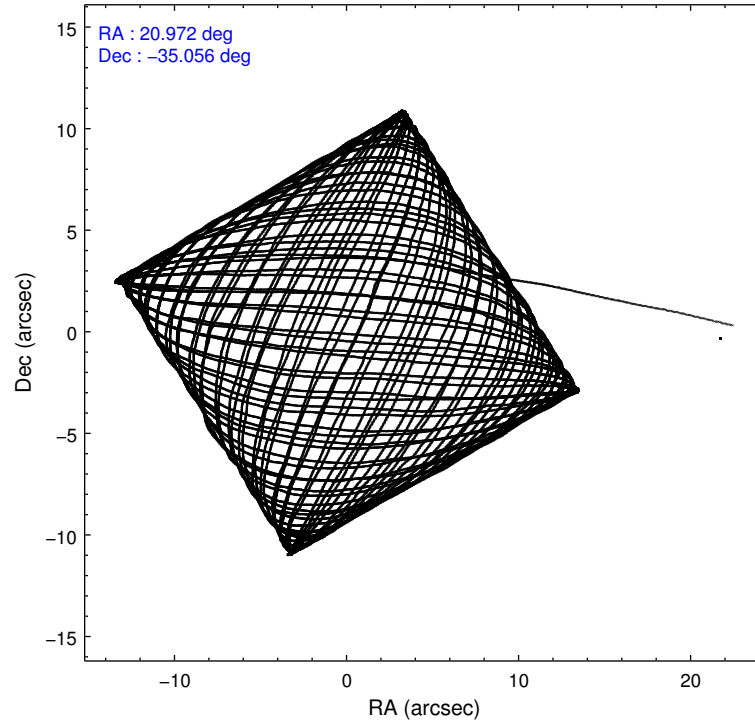
2.1.4 Events

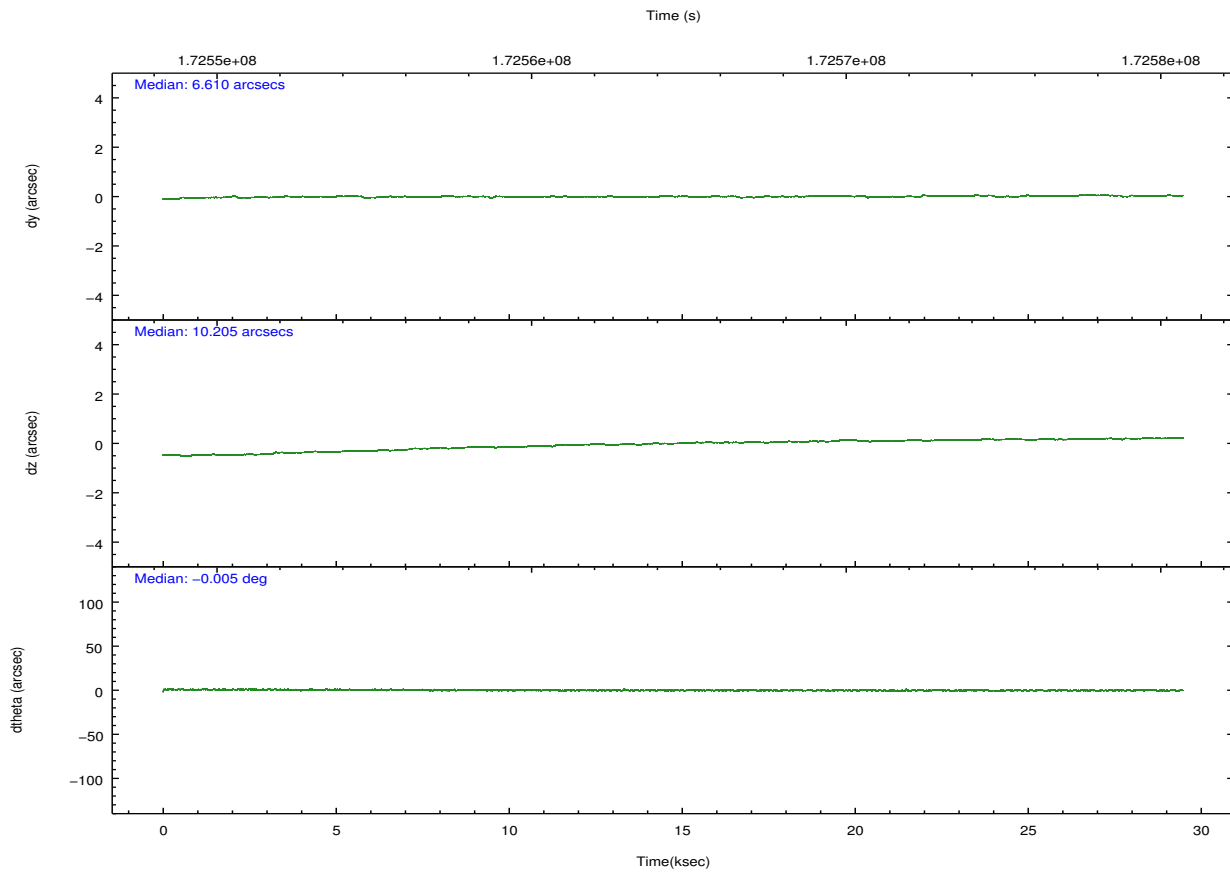
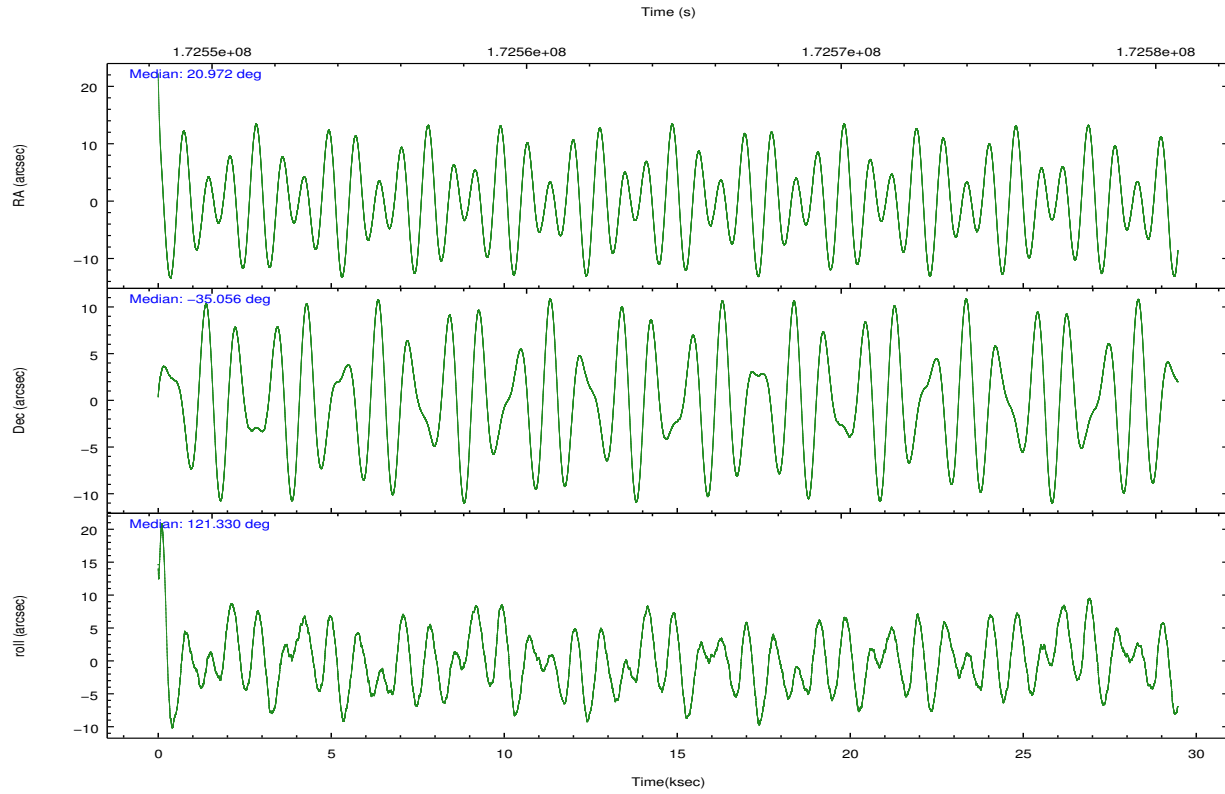
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	186504	261998	171989	233125	236163	172769	grade 0 events	10033	26569	10576	9996	19525	10198
rejected events	164237	134098	148172	132730	174159	150044		5%	10%	6%	4%	8%	5%
rejected %	88%	51%	86%	56%	73%	86%	grade 1 events	165	813	109	321	155	106
								0%	0%	0%	0%	0%	0%
							grade 2 events	4575	33982	4796	20215	11859	4198
								2%	12%	2%	8%	5%	2%
							grade 3 events	2210	4650	2051	8836	7945	2047
								1%	1%	1%	3%	3%	1%
							grade 4 events	2016	4599	2083	9116	7278	2059
								1%	1%	1%	3%	3%	1%
							grade 5 events	7191	18534	7621	21522	10251	7930
								3%	7%	4%	9%	4%	4%
							grade 6 events	3434	58117	4311	52254	15398	4232
								1%	22%	2%	22%	6%	2%
							grade 7 events	156880	114734	140442	110865	163752	141999
								84%	43%	81%	47%	69%	82%

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	21.001797	20.97236292569153	Subarray requested	NONE	NONE
[deg] Pointing Dec	-35.069194	-35.05643850573607	Alternating exposures requested	N	N
[deg] Pointing Roll	121.197437	121.3371519690901	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	172549912.184000	172548949.74049			
Observation start date	2003-06-21T02:30:48	2003-06-21T02:15:49			
[s] Observation end time (MET)	172579229.184000	172580188.66681			
Observation end date	2003-06-21T10:39:25	2003-06-21T10:56:28			
Read mode	TIMED	TIMED			

2.3 Aspect





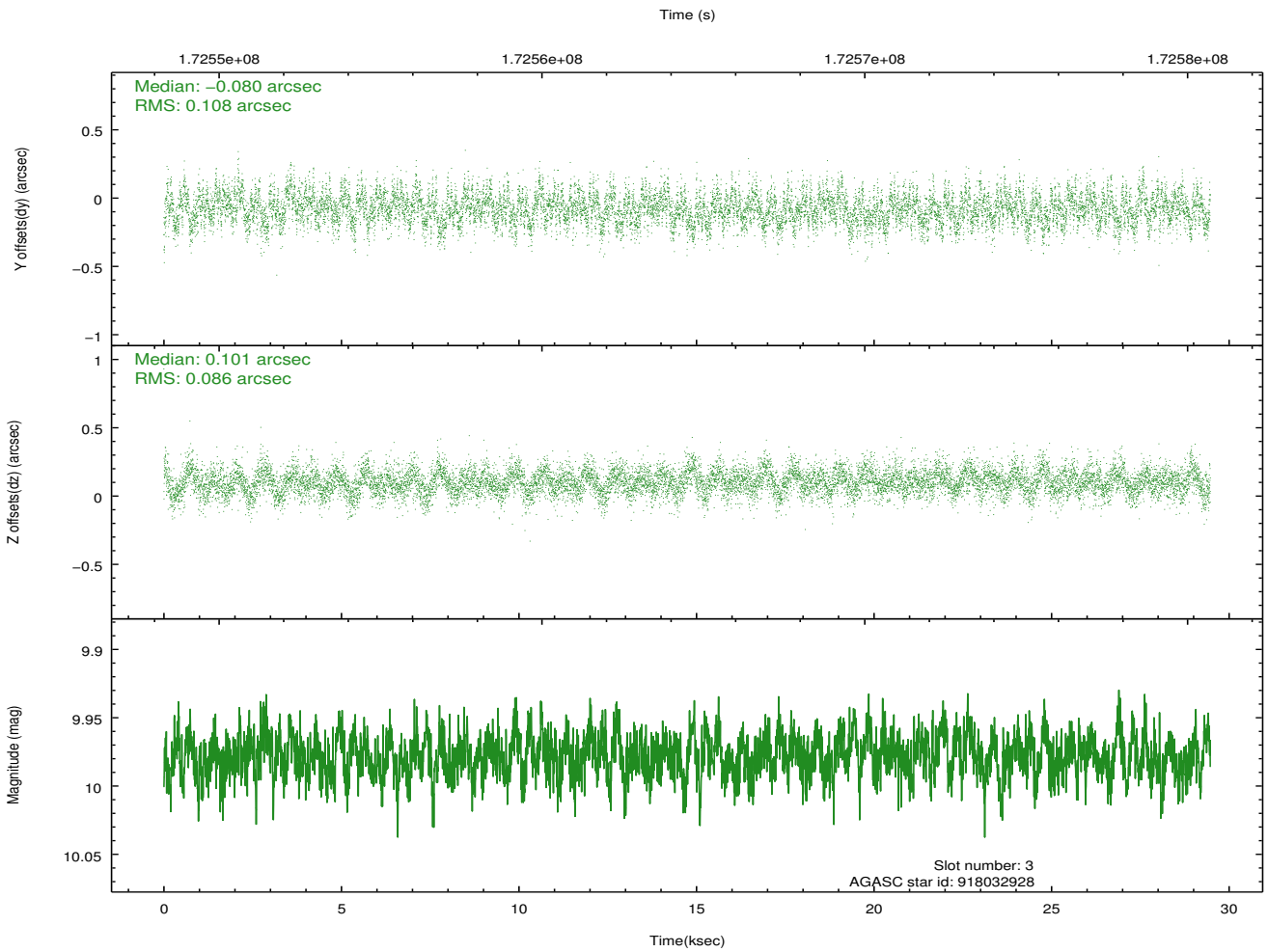
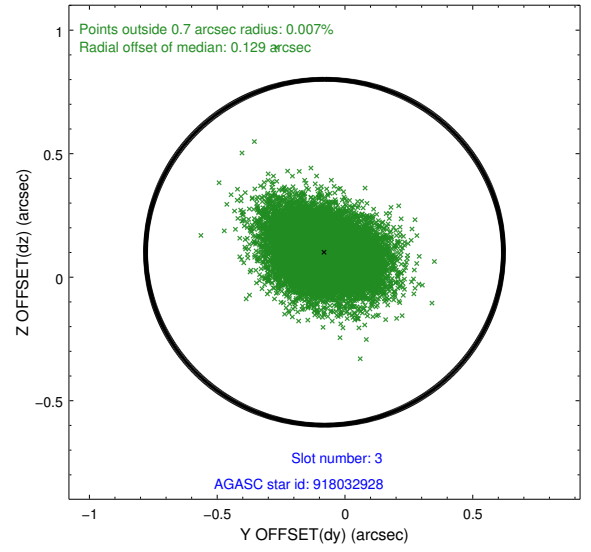
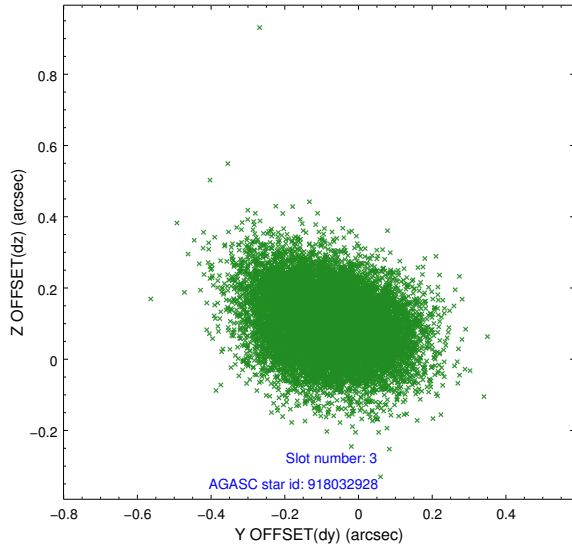
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7189	-0.056	-0.015	0.007	0.012	0.000000	0.000000	-759.37	-1731.42
1	FID	ACIS-S-4	7.20	7189	0.060	0.031	0.005	0.010	0.000000	0.000000	2153.95	177.08
2	FID	ACIS-S-5	7.23	7189	-0.035	-0.008	0.007	0.013	0.000000	0.000000	-1812.13	170.73
3	GUIDE	918032928	9.98	14370	-0.080	0.101	0.146	0.242	21.260186	-34.205232	2261.35	-2267.91
4	GUIDE	918037384	8.47	14375	0.118	-0.043	0.069	0.112	20.982960	-35.723099	-1984.95	1266.28
5	GUIDE	918041544	10.03	14371	-0.049	0.057	0.151	0.239	20.868409	-34.646803	1505.01	-449.22
6	GUIDE	918041624	7.96	14378	-0.174	-0.087	0.060	0.092	20.656436	-34.992038	763.52	728.80
7	GUIDE	918043888	10.16	14368	0.182	-0.034	0.137	0.221	21.077642	-35.703353	-2067.53	992.65

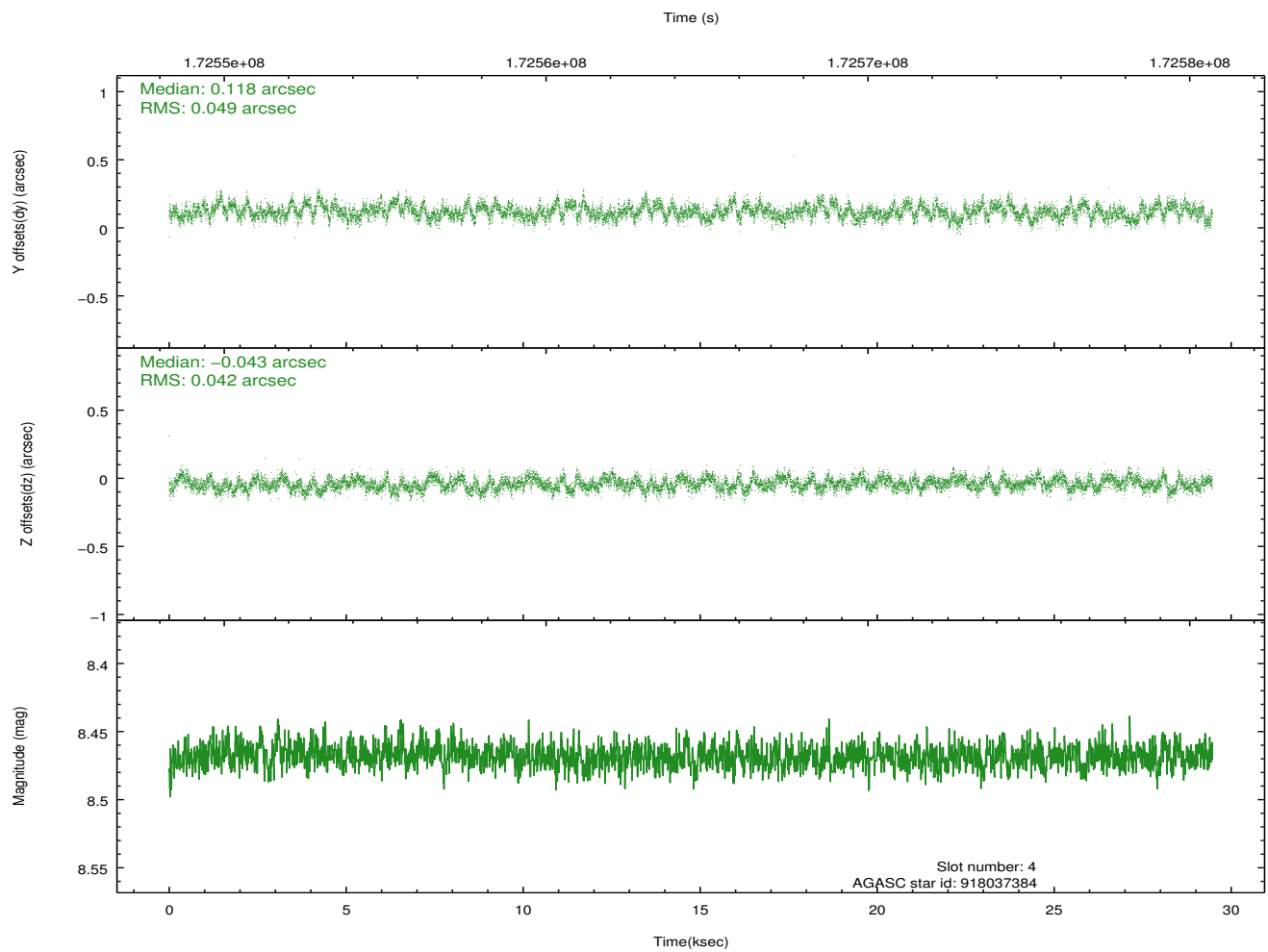
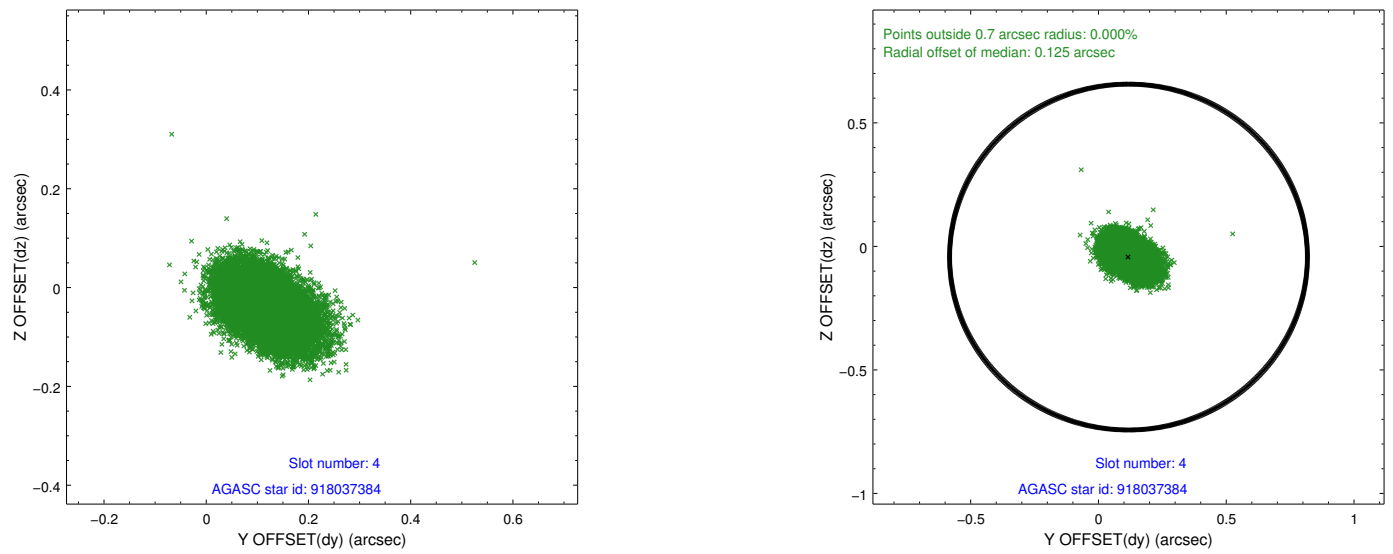
∞

2.4 Star Slots

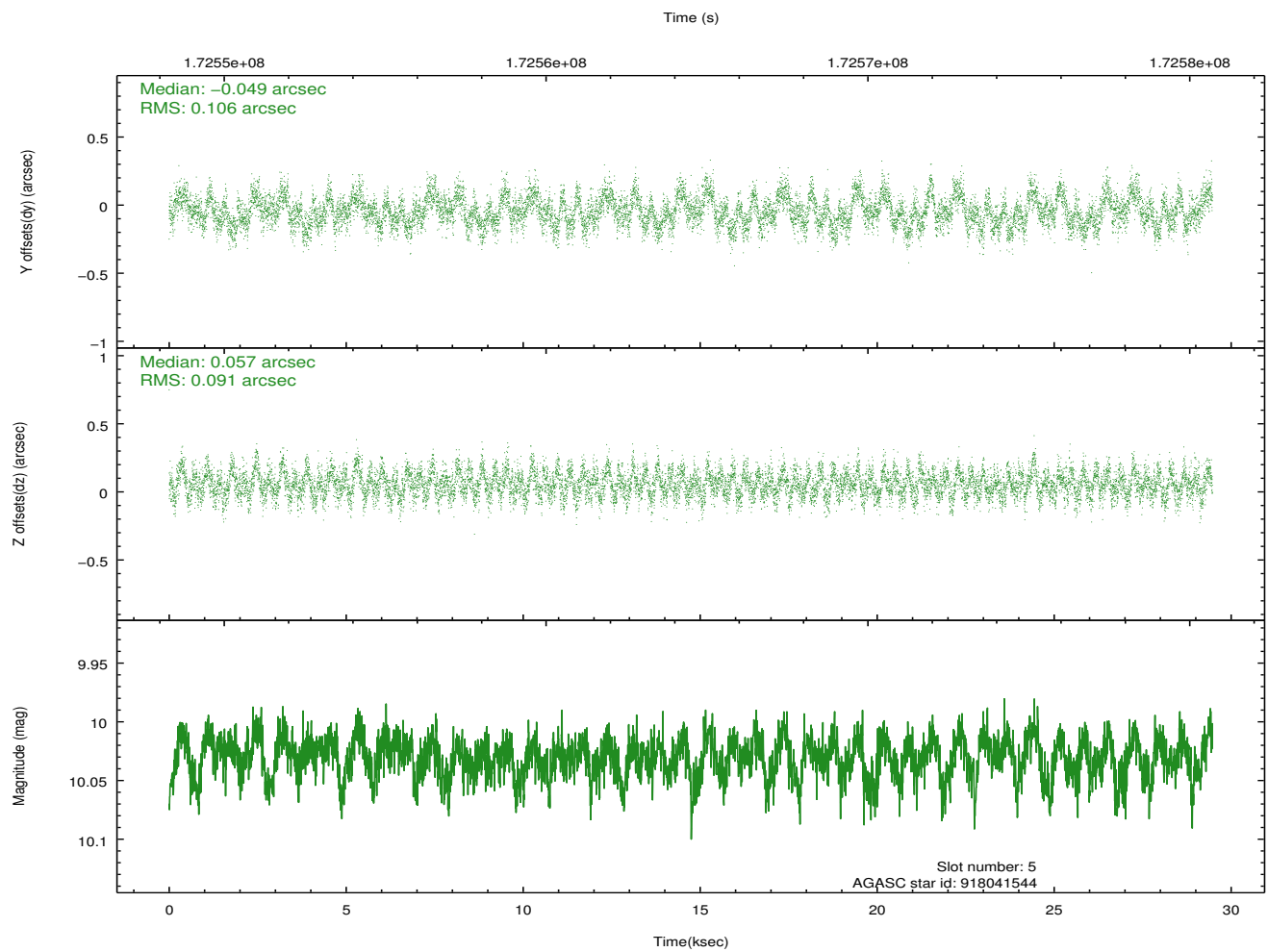
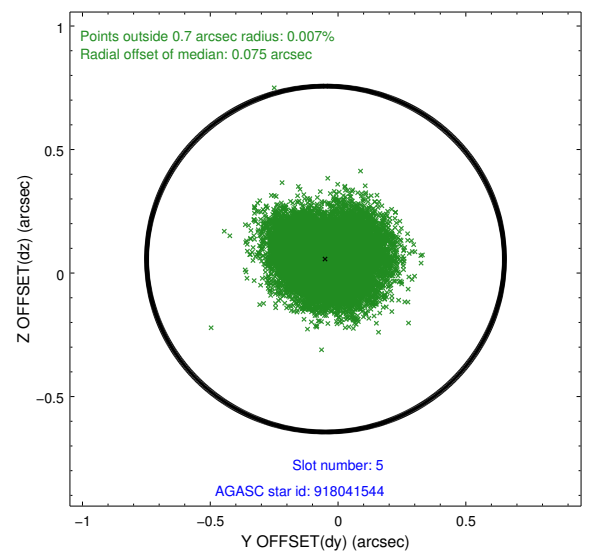
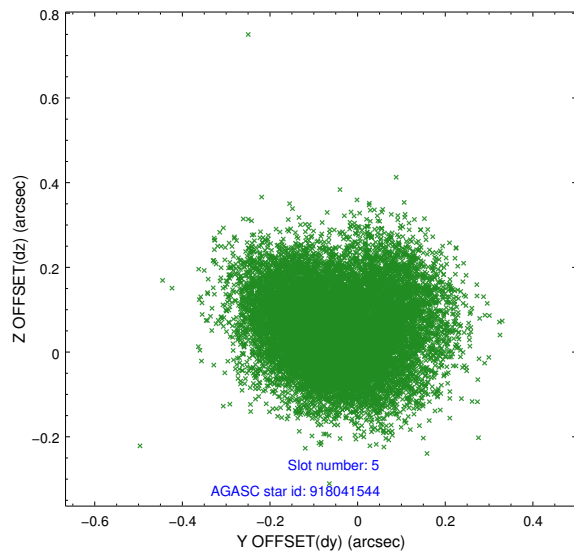
2.4.1 Slot 3



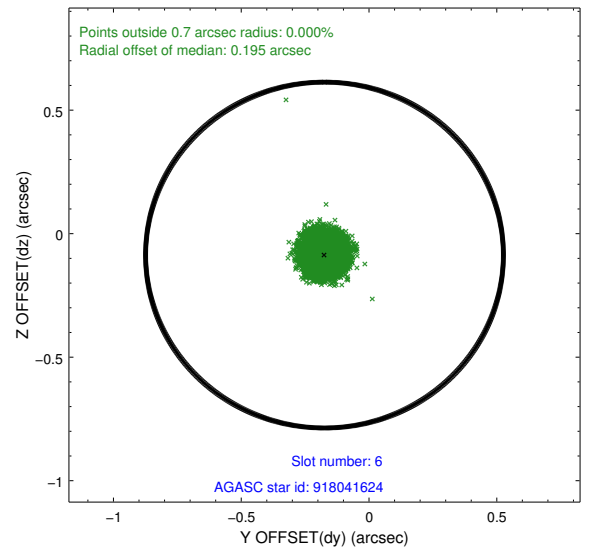
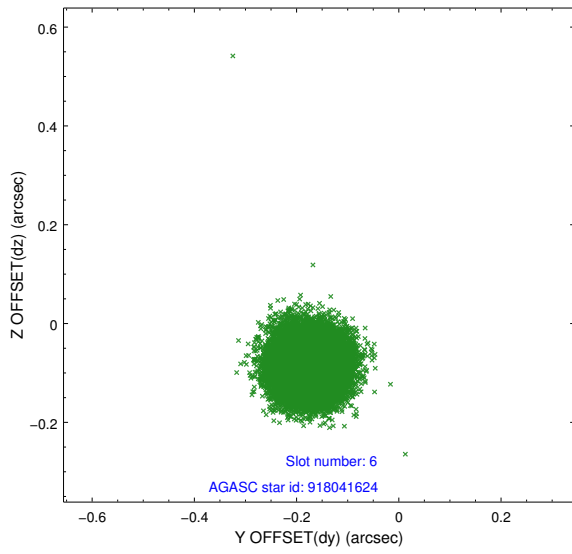
2.4.2 Slot 4



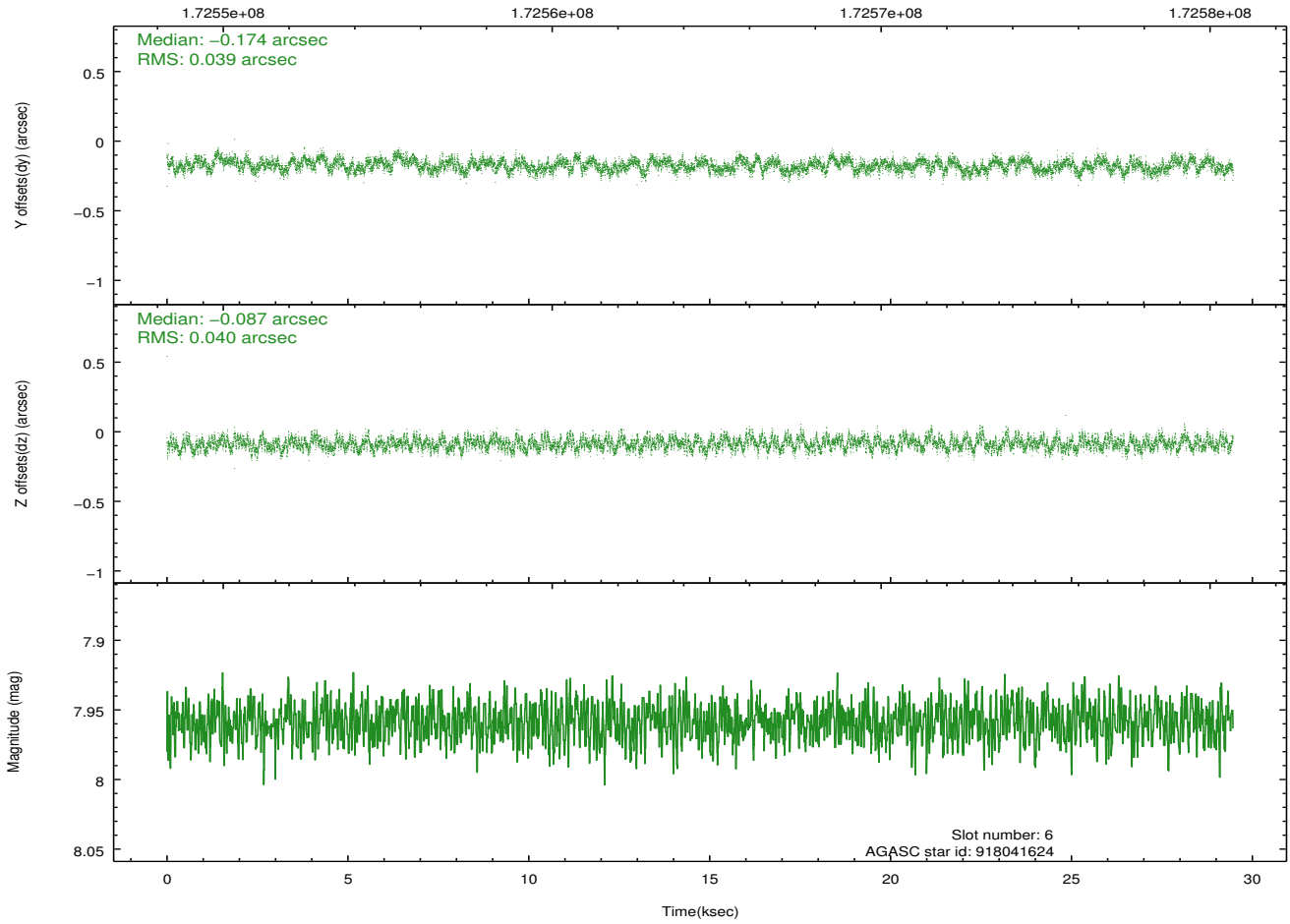
2.4.3 Slot 5



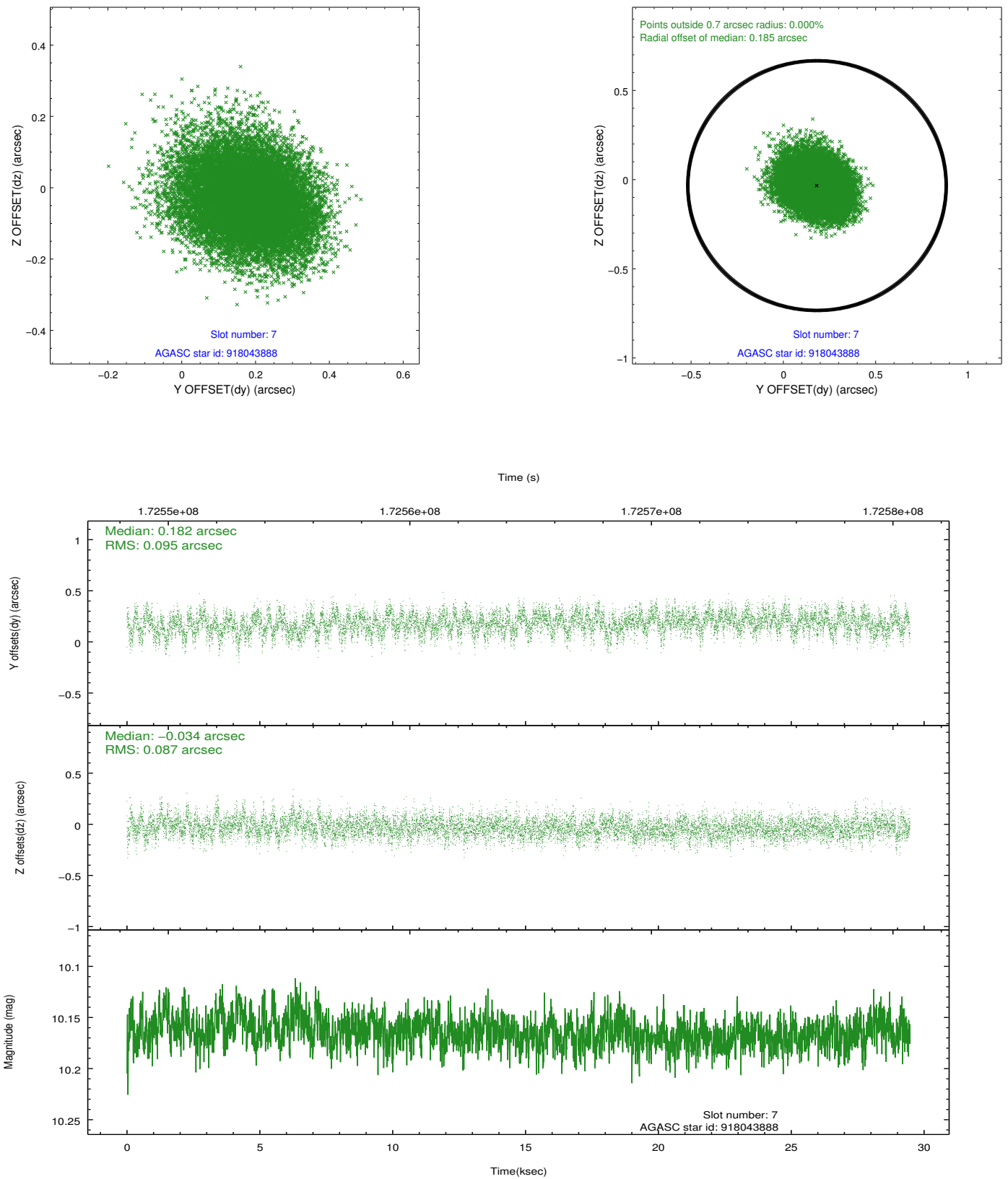
2.4.4 Slot 6



Time (s)

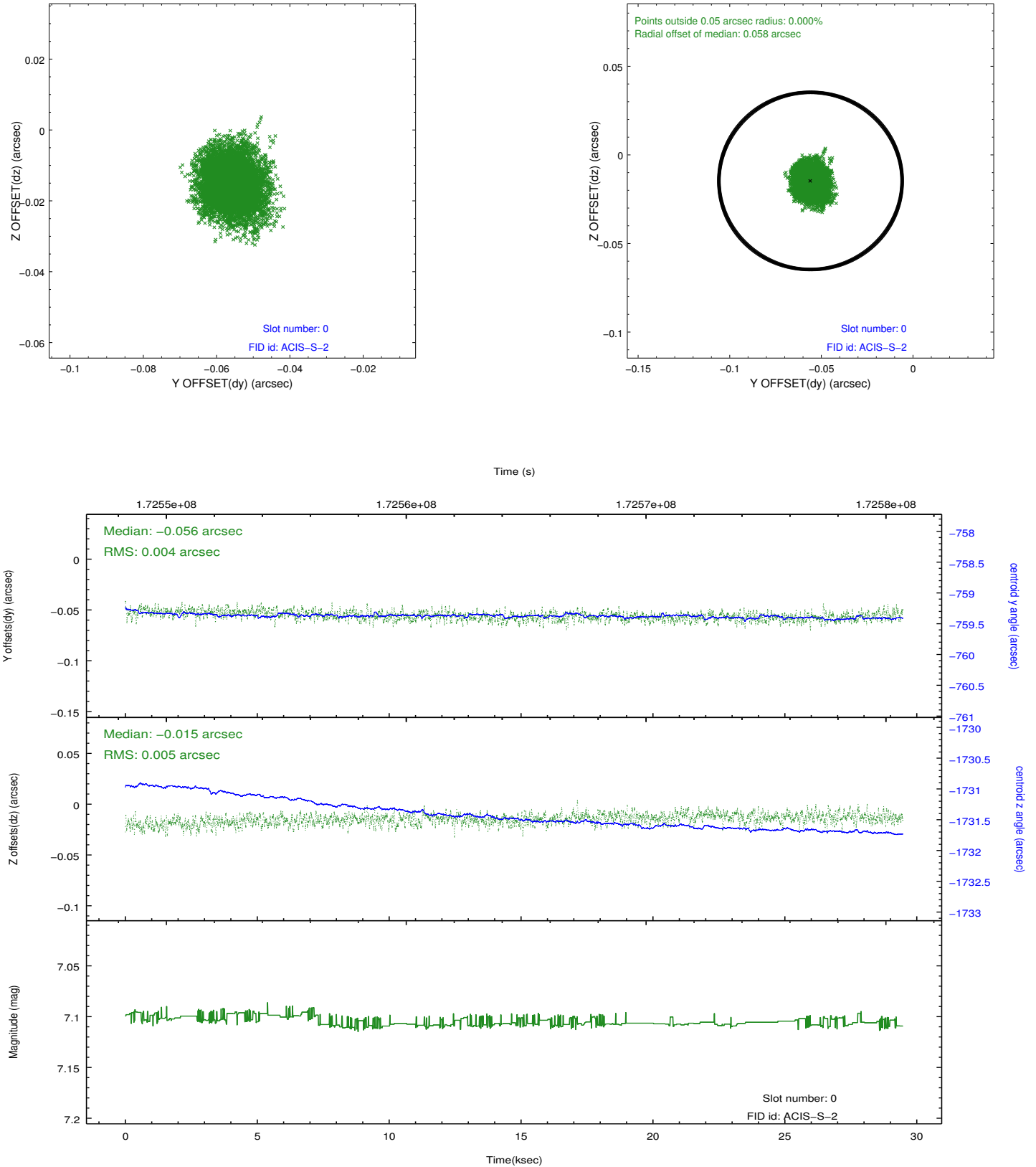


2.4.5 Slot 7

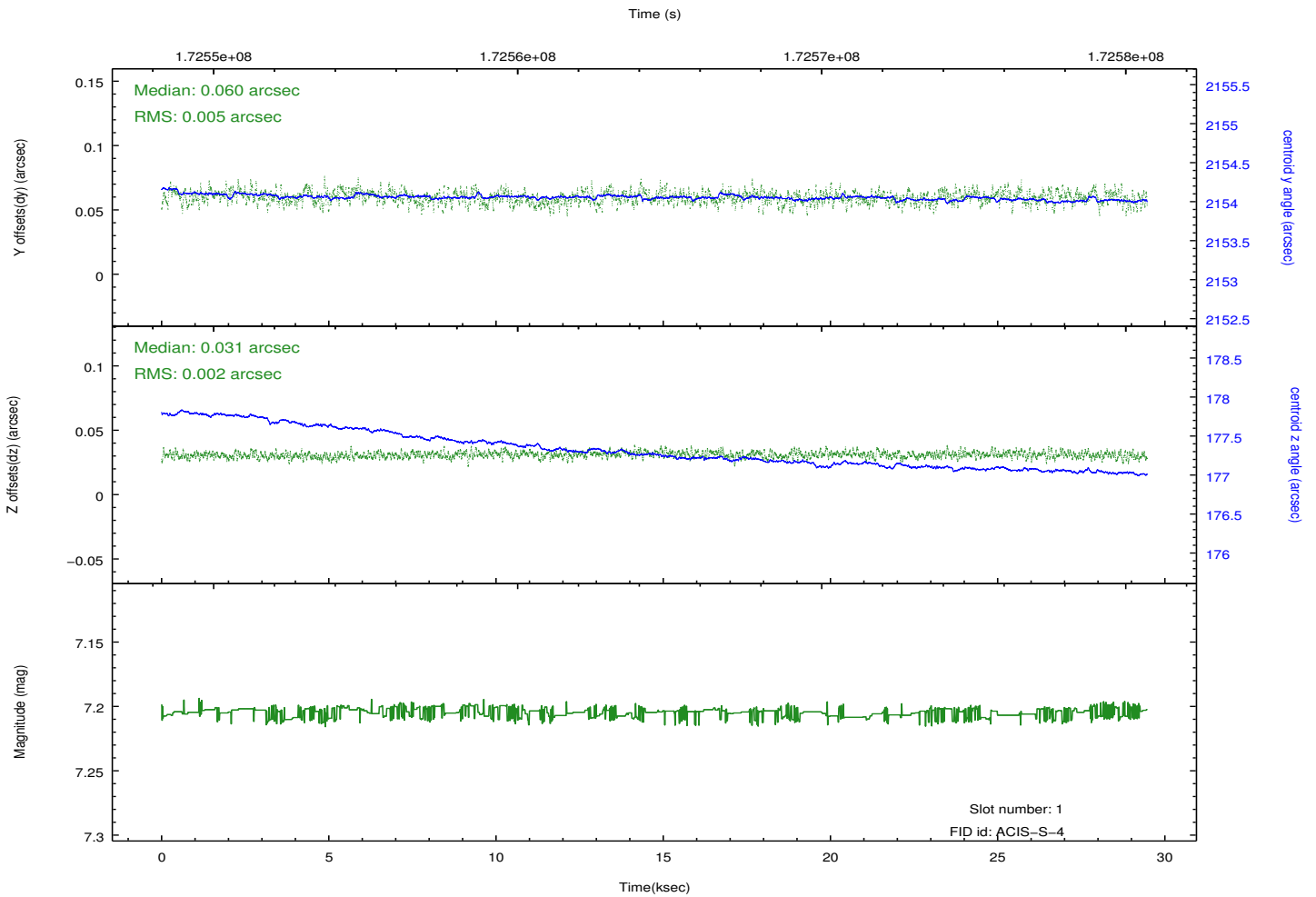
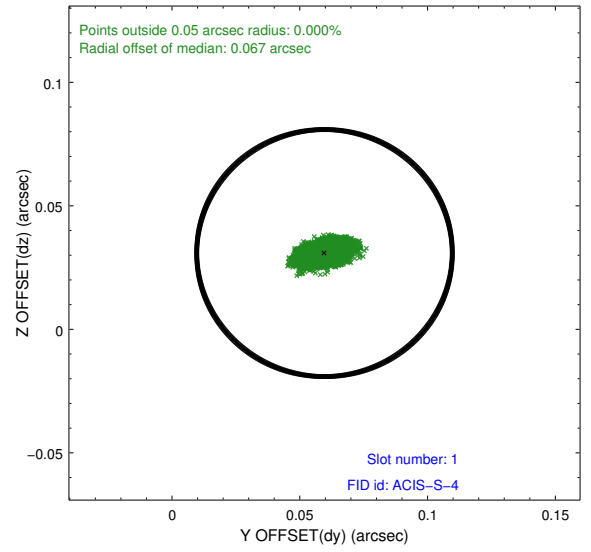
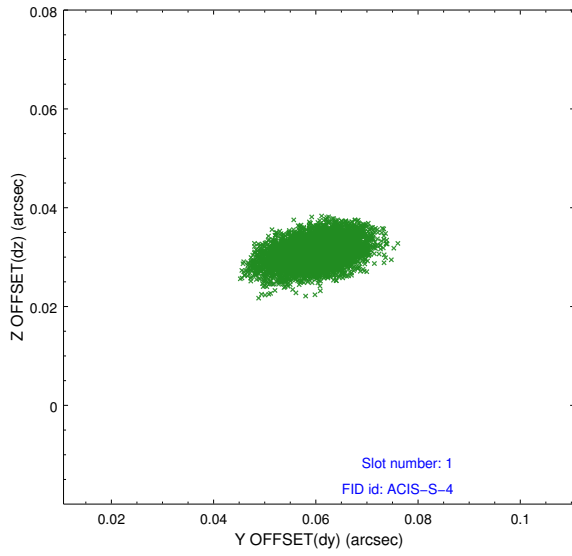


2.5 FID Slots

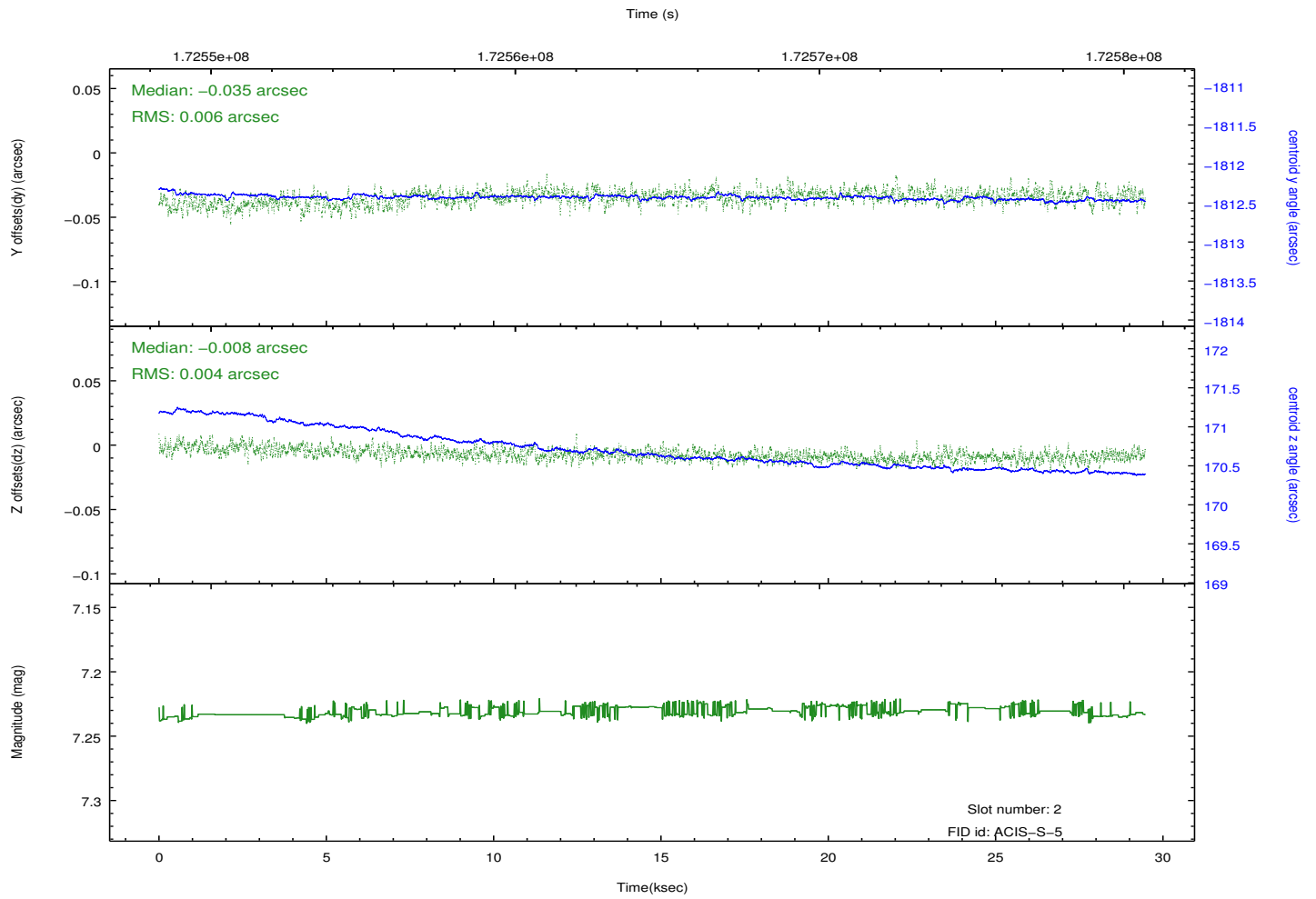
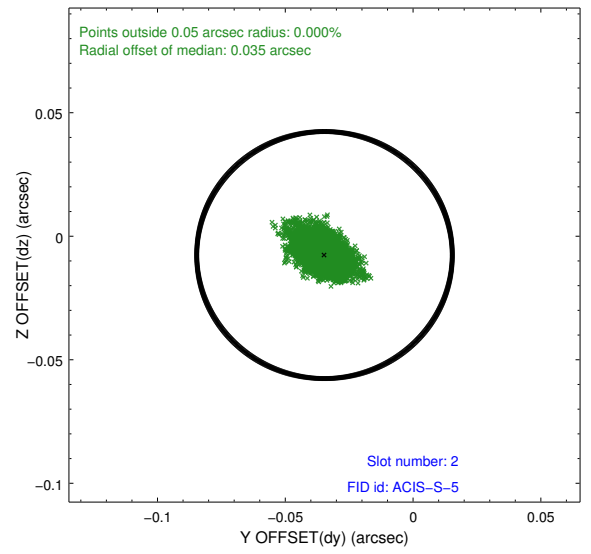
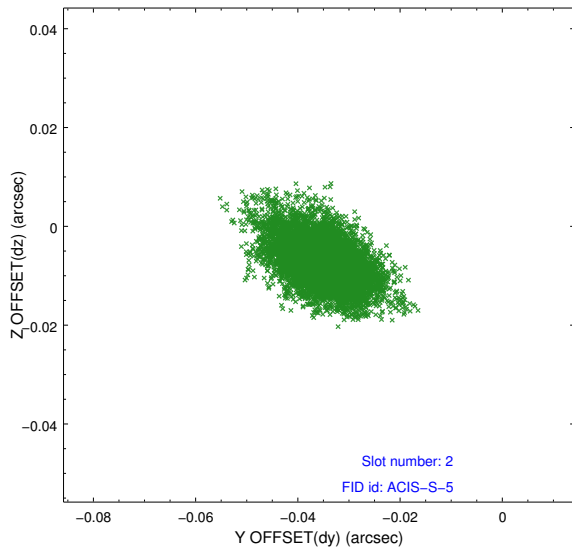
2.5.1 Slot 0



2.5.2 Slot 1

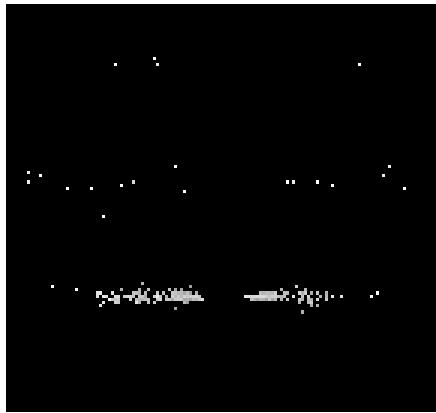


2.5.3 Slot 2

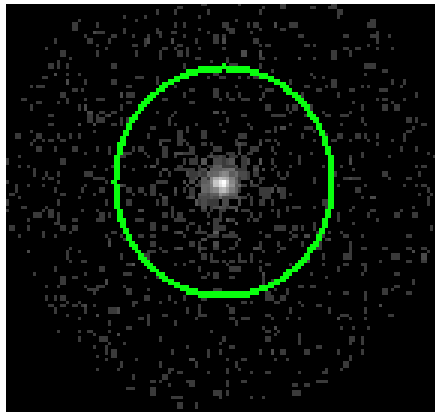


3 Gratings

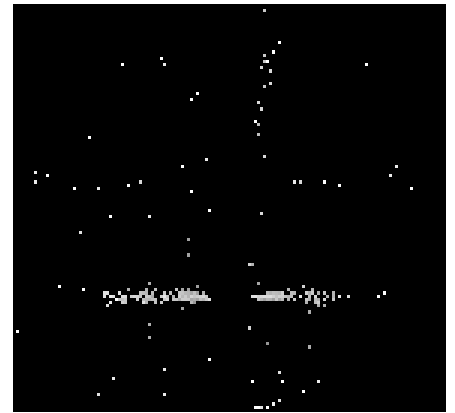
3.1 HEG Arm



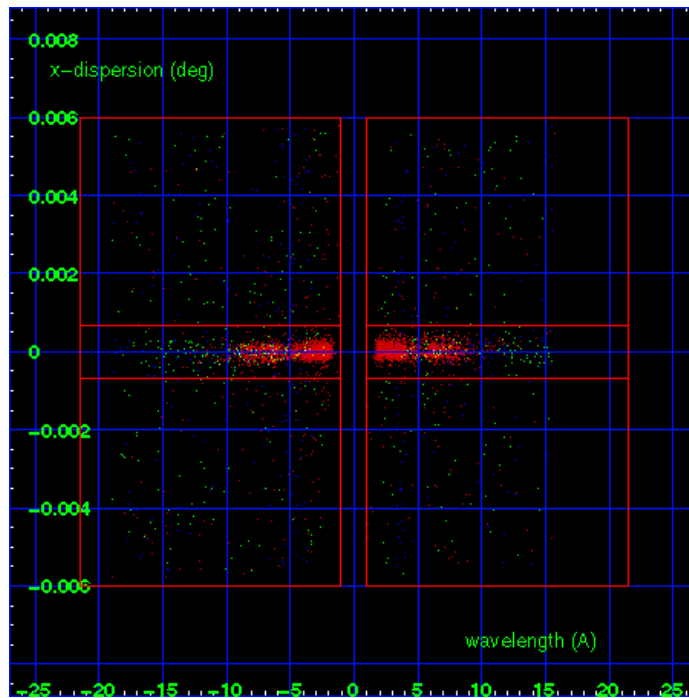
HEG Order Sort 123



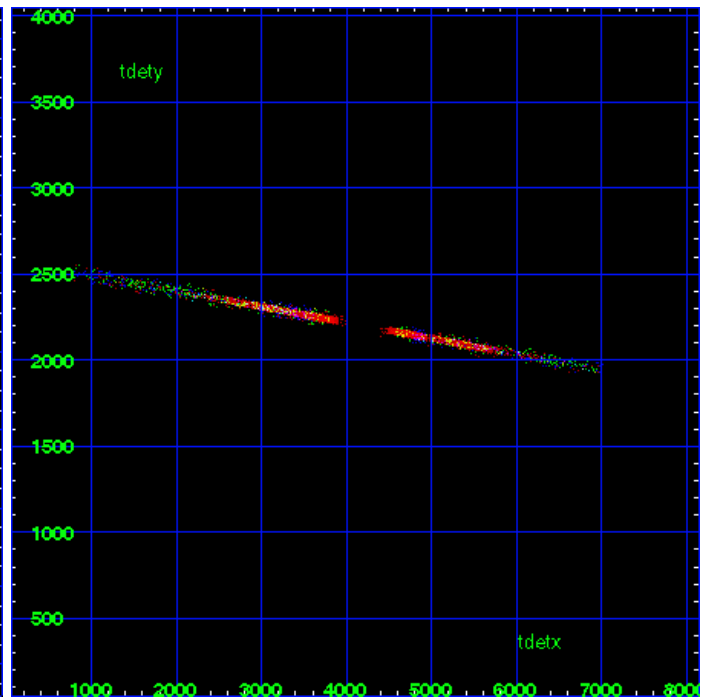
HEG Zero Order



HEG Order Sort ALL

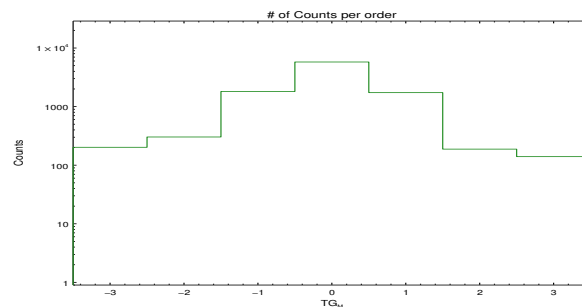


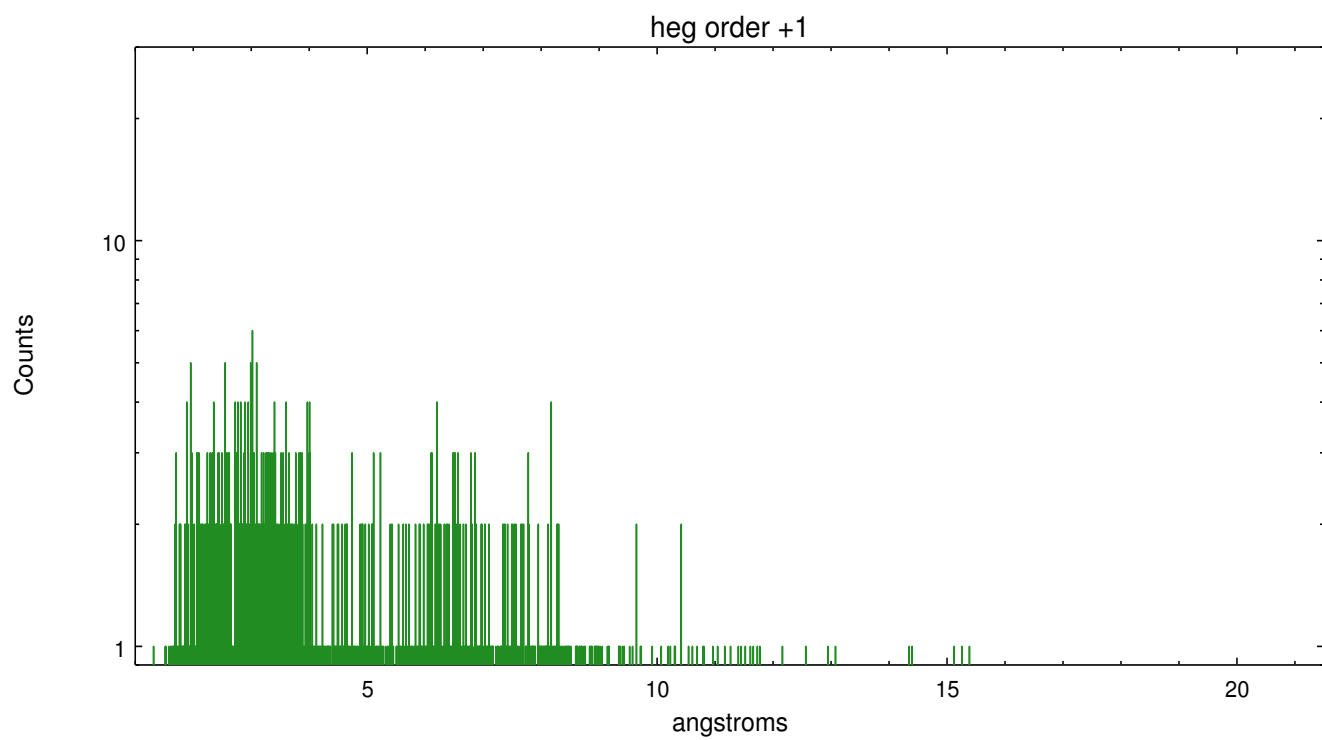
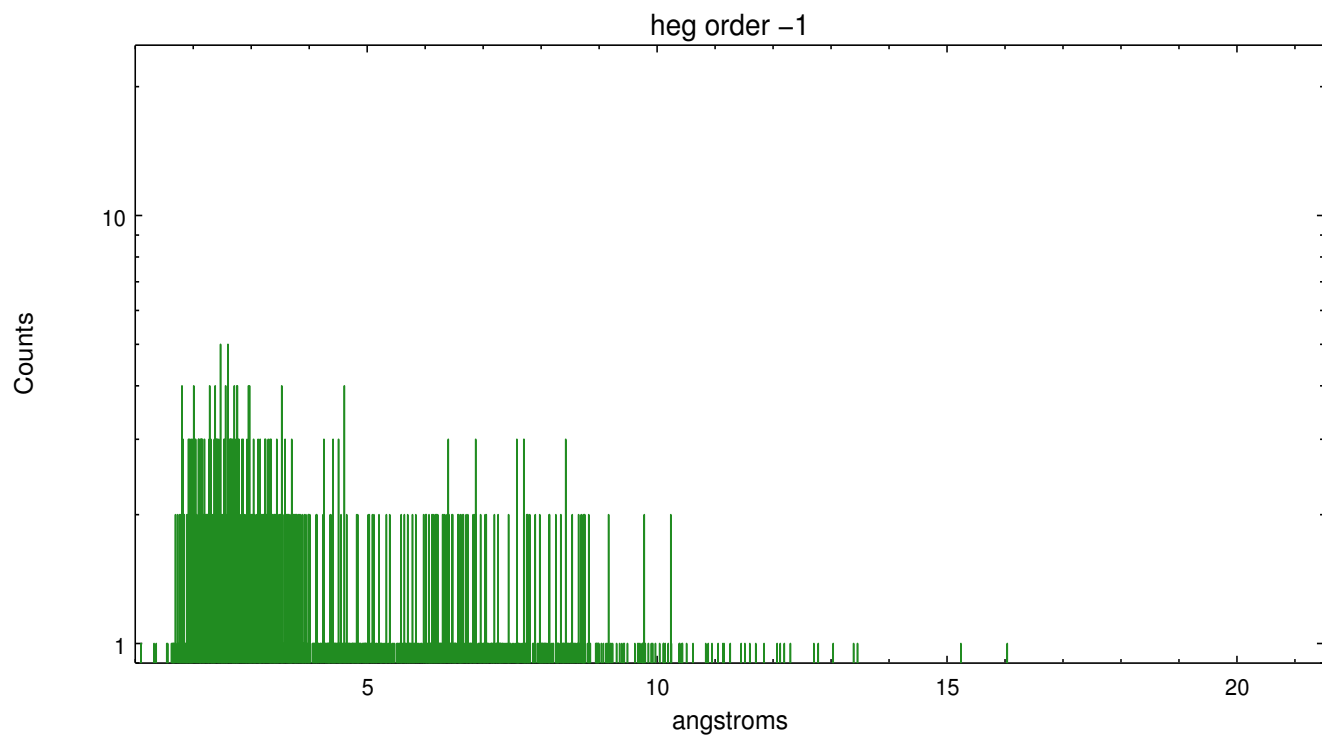
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	202	303	1812	5773	1732	188	140

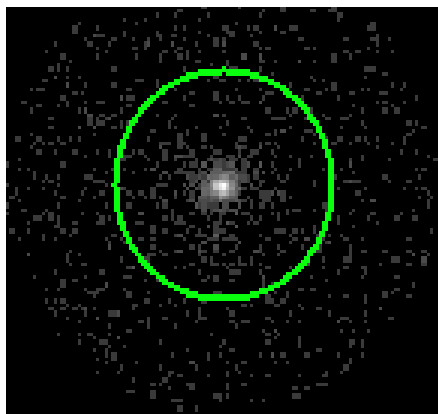




3.2 MEG Arm



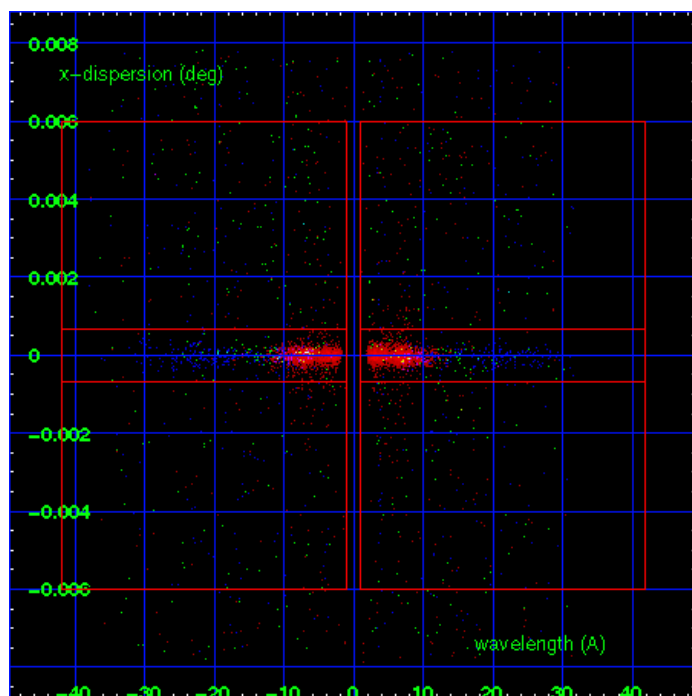
MEG Order Sort 123



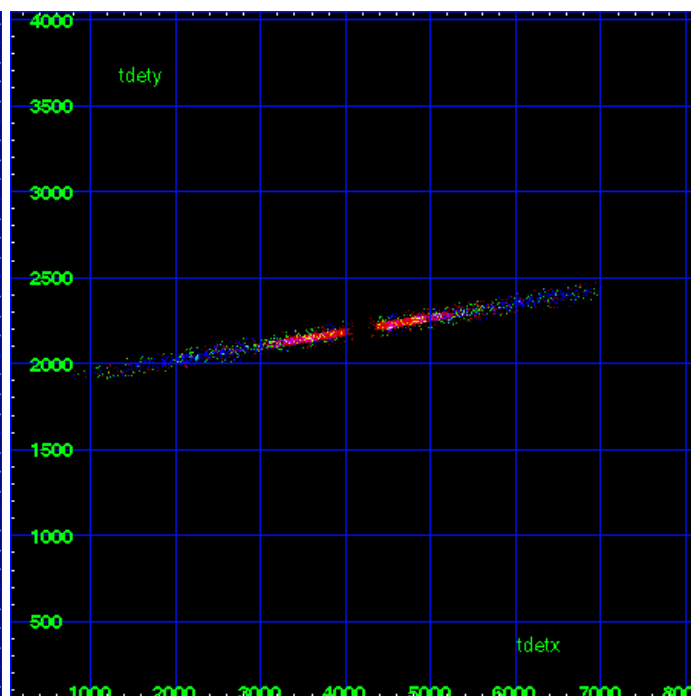
MEG Zero Order



MEG Order Sort ALL

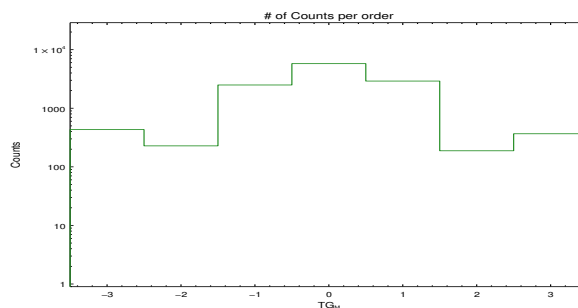


Spot Image MEG

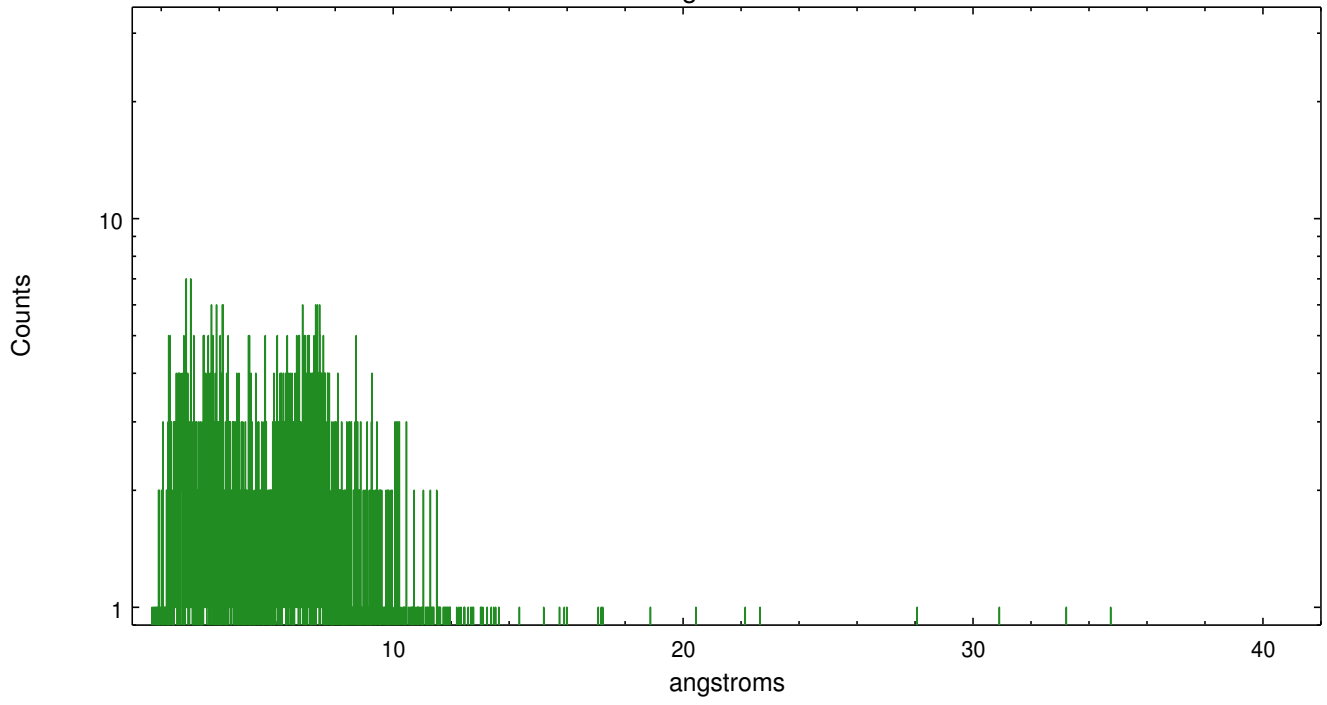


Full Detector MEG

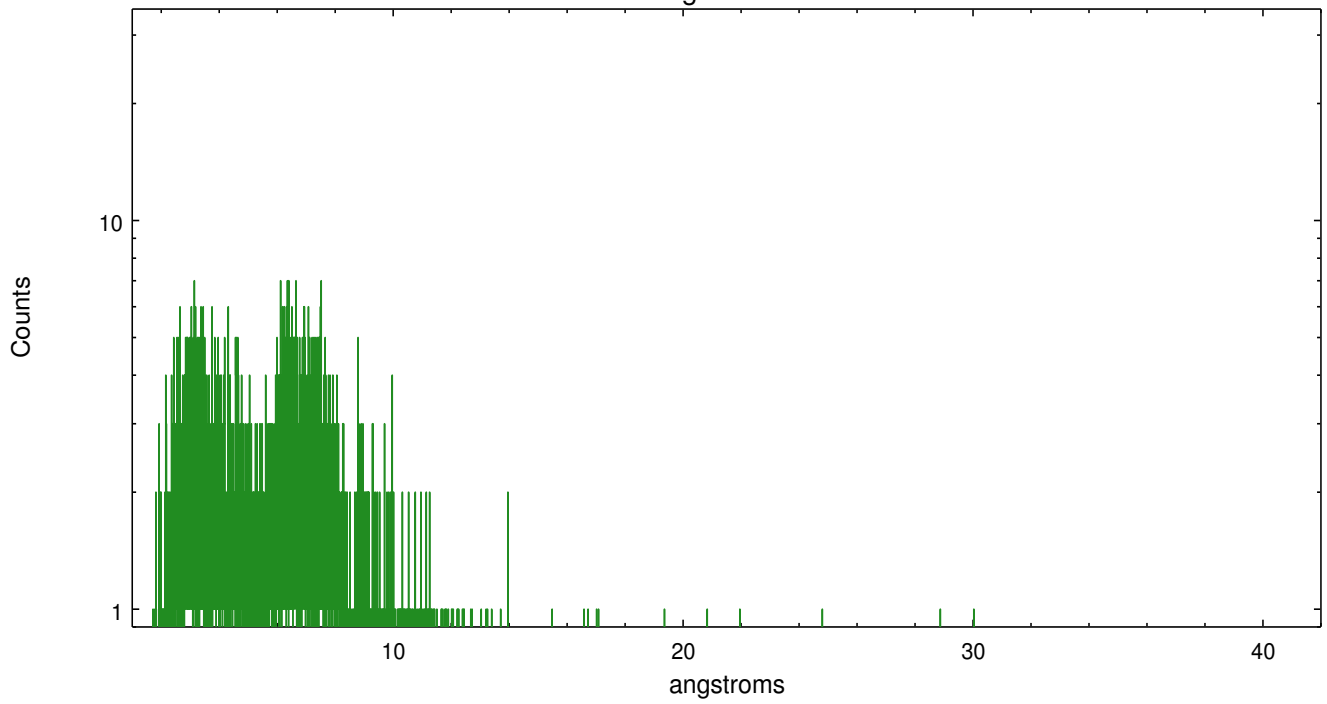
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	432	228	2495	5773	2910	188	367



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.052

A.2 Comments