

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16309 - L2 Version 2
Chandra X-Ray Center

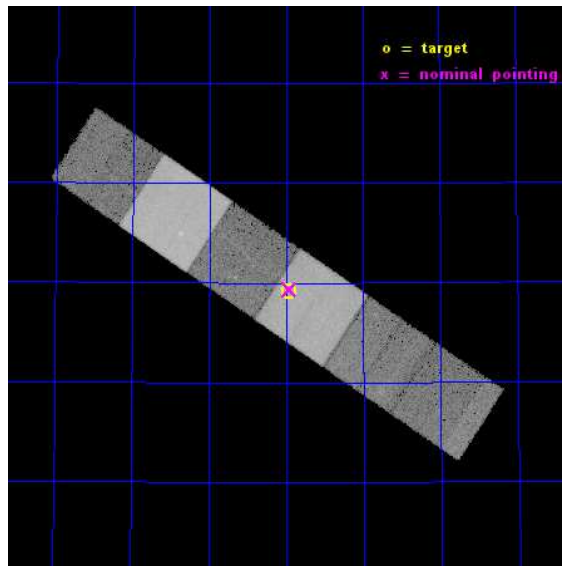
L2 Processing Date : Dec 10 2014

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1 Front

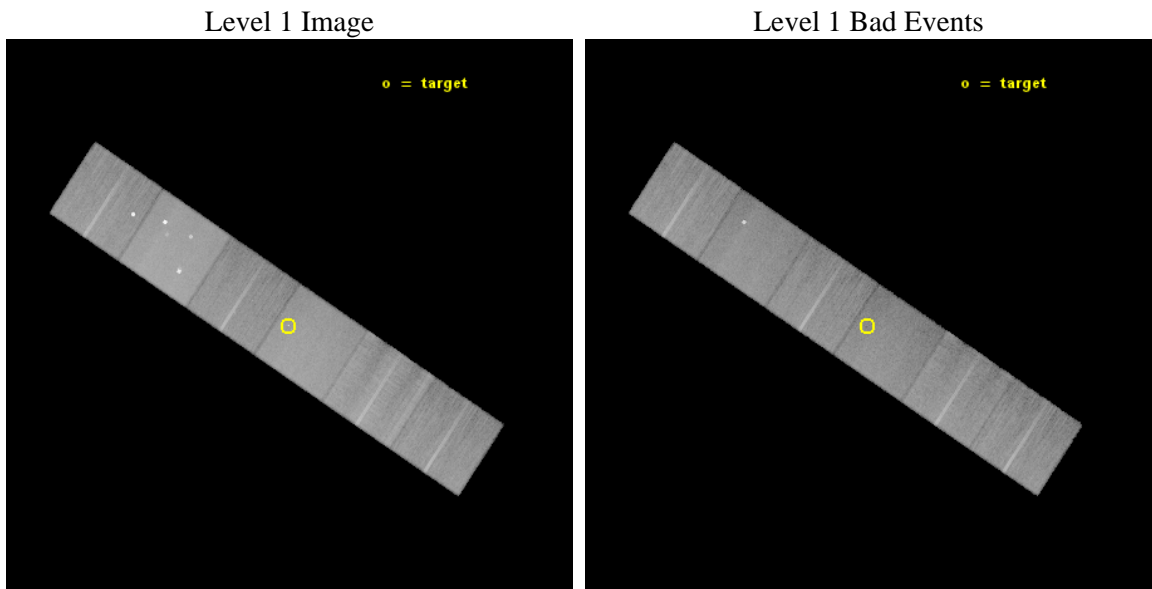
seq_num	200949	Sequence number
obs_id	16309	Observation id
title	Line Profile Diagnostics of the Wind in HD 206267	Proposal title
observer	Prof. Claude Canizares	Principal investigator
object	HD 206267	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	324.739583	Observer's specified target RA [deg]
dec_targ	57.486389	Observer's specified target Dec [deg]
ra_nom	324.7394846076	Nominal RA [deg]
dec_nom	57.489419136347	Nominal Dec [deg]
roll_nom	33.585774135424	Nominal Roll [deg]
revision	2	Processing version of data
ontime	45961.584525049	Sum of GTIs [s]
livetime	45379.591267049	Livetime [s]
ontime4	45961.599828839	Sum of GTIs [s]
ontime5	45961.543485045	Sum of GTIs [s]
ontime6	45961.502445042	Sum of GTIs [s]
ontime7	45961.584525049	Sum of GTIs [s]
ontime8	45961.461405039	Sum of GTIs [s]
ontime9	45961.420365036	Sum of GTIs [s]
l2events	377126	Number of level 2 events



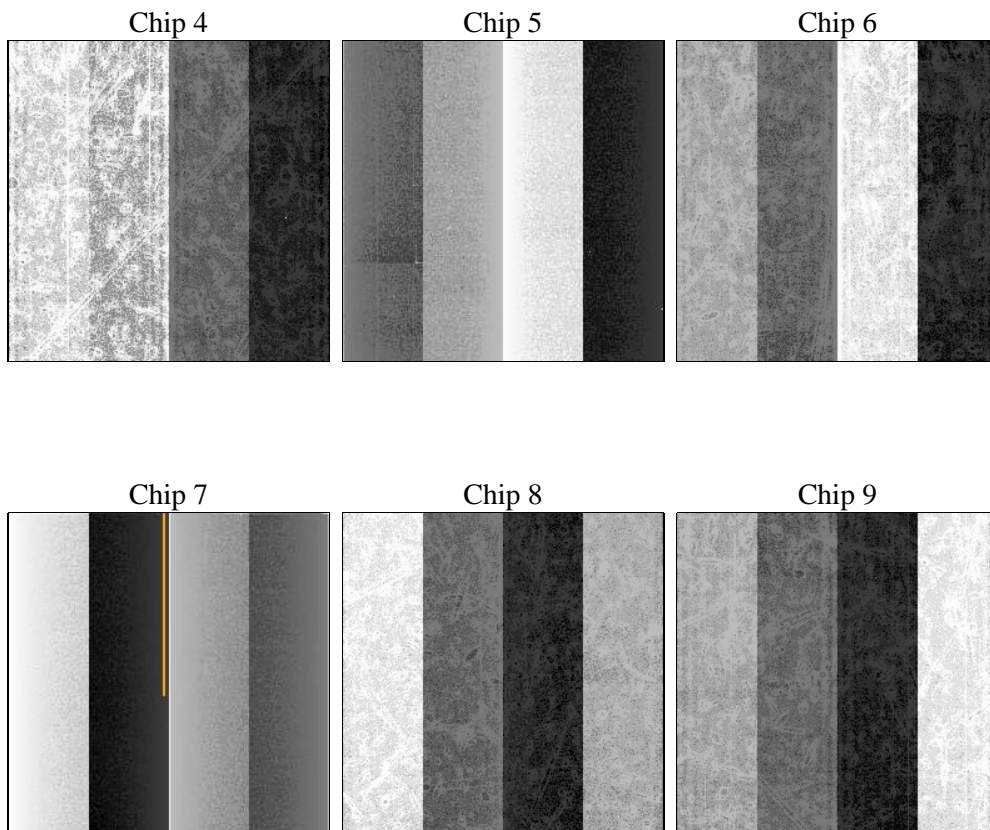
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	45961.584525049	Sum of GTIs [s]
caldsver	4.6.4	 	ontime4	45961.599828839	Sum of GTIs [s]
date	2014-12-10T22:02:51	Date and time of file creation	ontime5	45961.543485045	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	45961.502445042	Sum of GTIs [s]
			ontime7	45961.584525049	Sum of GTIs [s]
			ontime8	45961.461405039	Sum of GTIs [s]
			ontime9	45961.420365036	Sum of GTIs [s]
			l1events	1602289	Number of level 1 events
			tgmethod	TGDETECT	Method used to create src1a file
			zpc_pos	(4004.08, 4003.05)	src1a sky pixel position

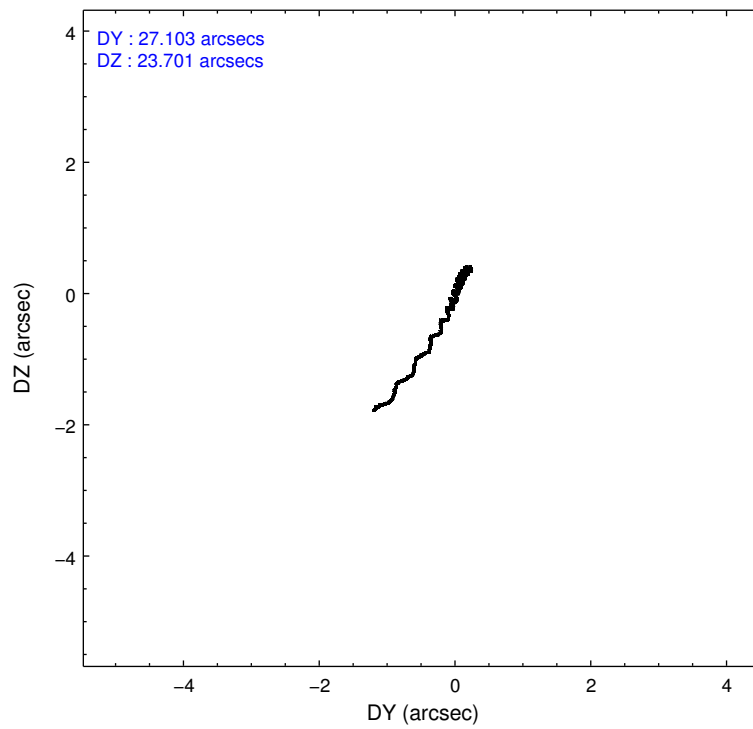
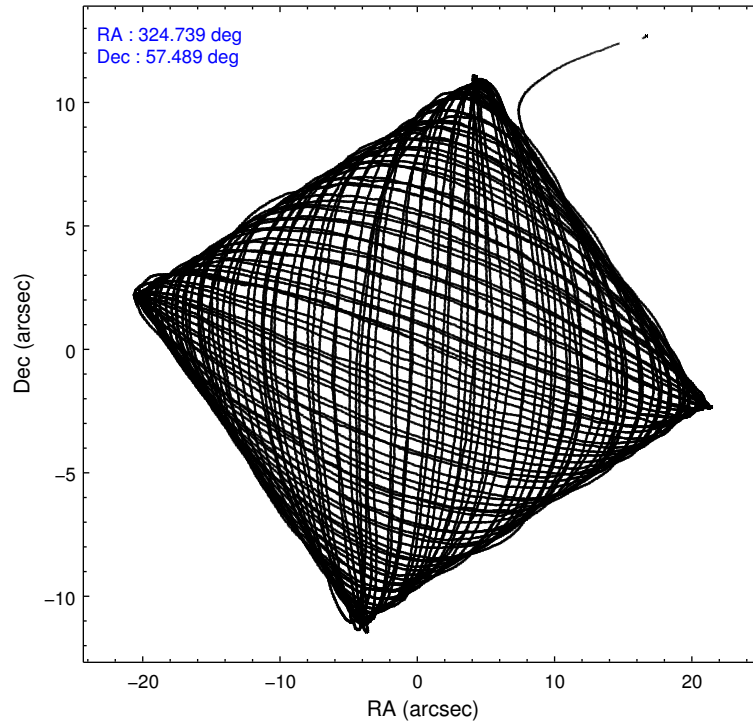
2.1.4 Events

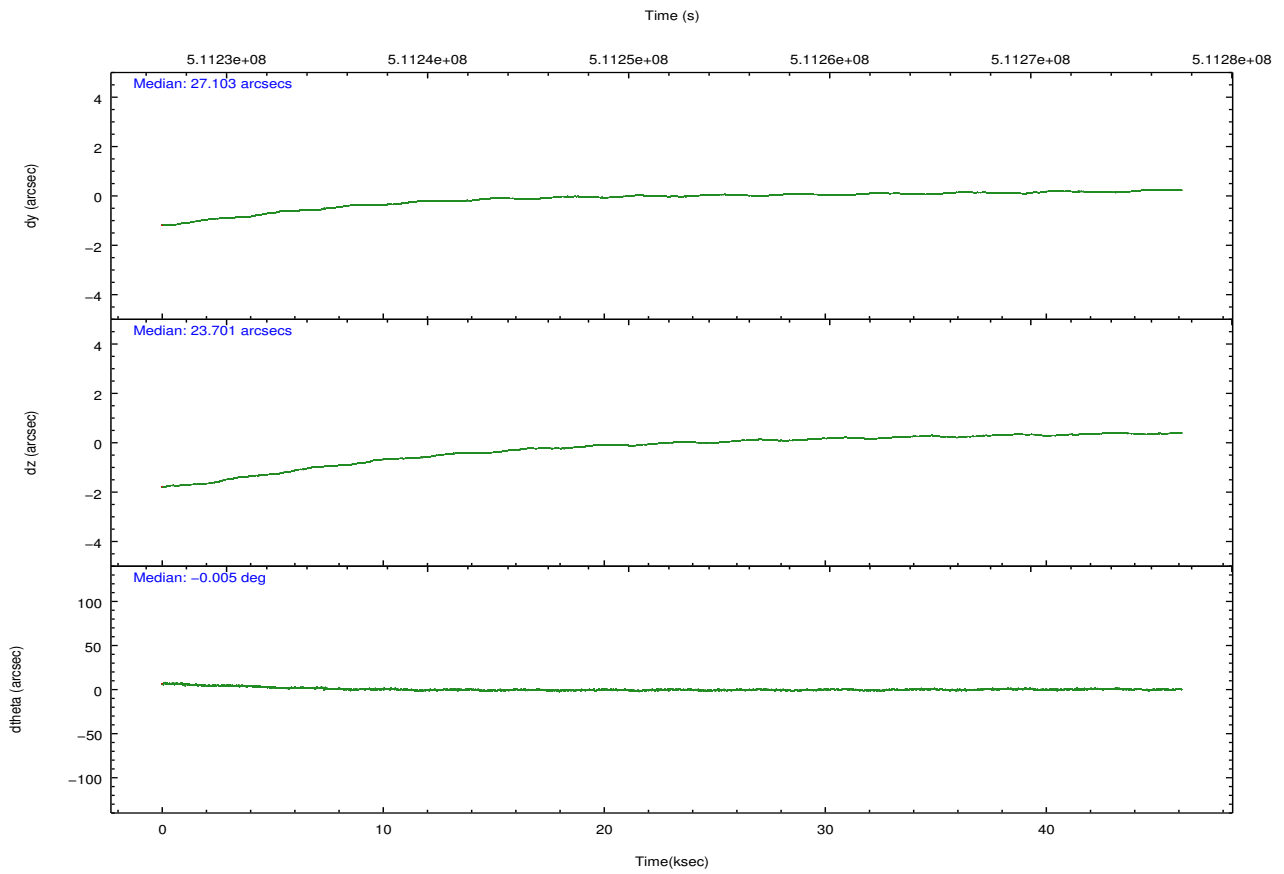
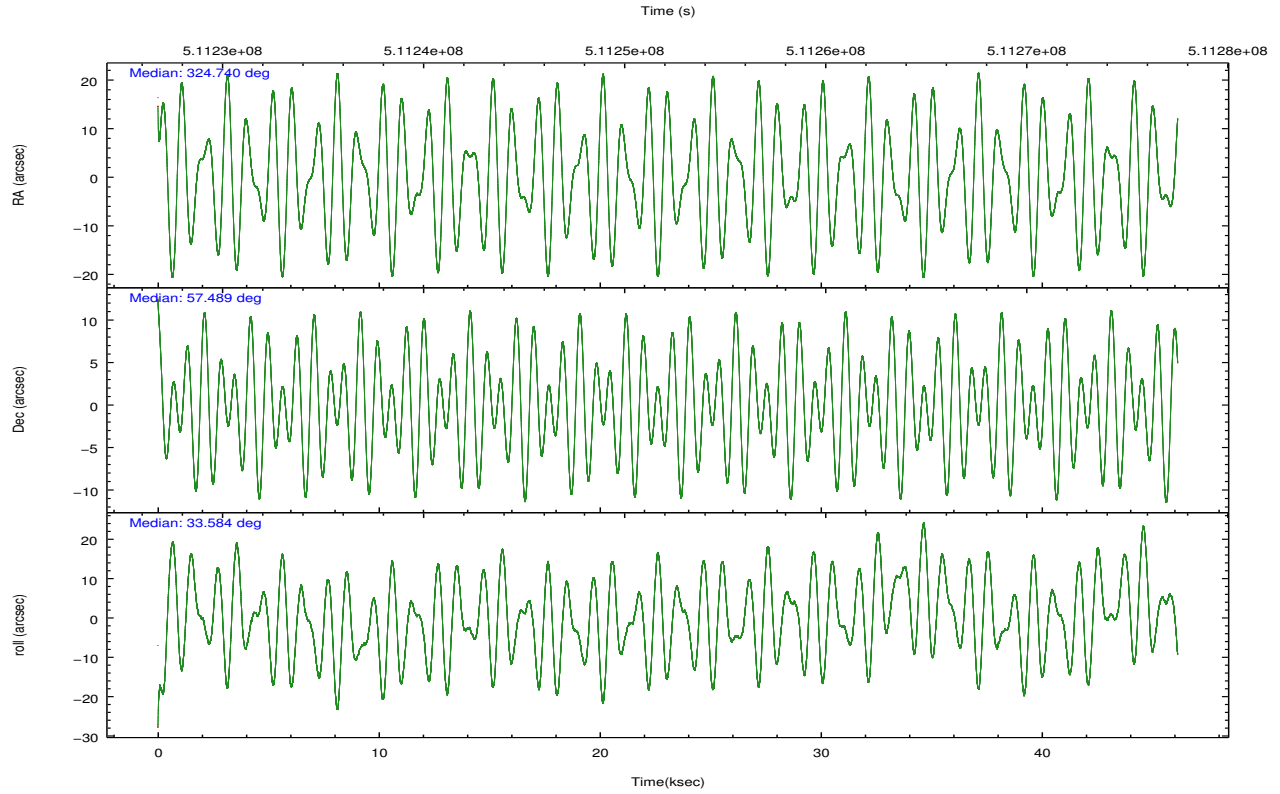
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	244481	366745	212645	287245	277927	213246	grade 0 events	21984	20768	9468	11171	22684	9562
rejected events	205634	185681	186116	161291	201447	186124		8%	5%	4%	3%	8%	4%
rejected %	84%	50%	87%	56%	72%	87%	grade 1 events	278	592	94	362	200	144
								0%	0%	0%	0%	0%	0%
							grade 2 events	6427	58961	5915	25922	18193	5997
								2%	16%	2%	9%	6%	2%
							grade 3 events	2891	5683	2660	10630	7728	2821
								1%	1%	1%	3%	2%	1%
							grade 4 events	2781	5376	2509	10608	7414	2666
								1%	1%	1%	3%	2%	1%
							grade 5 events	11398	26696	10901	29879	16113	12266
								4%	7%	5%	10%	5%	5%
							grade 6 events	4769	90297	5979	67641	20464	6078
								1%	24%	2%	23%	7%	2%
							grade 7 events	193953	158372	175119	131032	185131	173712
								79%	43%	82%	45%	66%	81%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	324.717494	324.7394846075995	CCD I2 on	N	N
[deg] Pointing Dec	57.464757	57.48941913634724	CCD I3 on	N	N
[deg] Pointing Roll	33.447688	33.58577413542402	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	511229212.184000	511227934.25347	CCD S5 on	O2	Y
Observation start date	2014-03-15T00:05:45	2014-03-14T23:45:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	511275212.184000	511276130.26862	On-chip summing requested	N	N
Observation end date	2014-03-15T12:52:25	2014-03-15T13:08:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





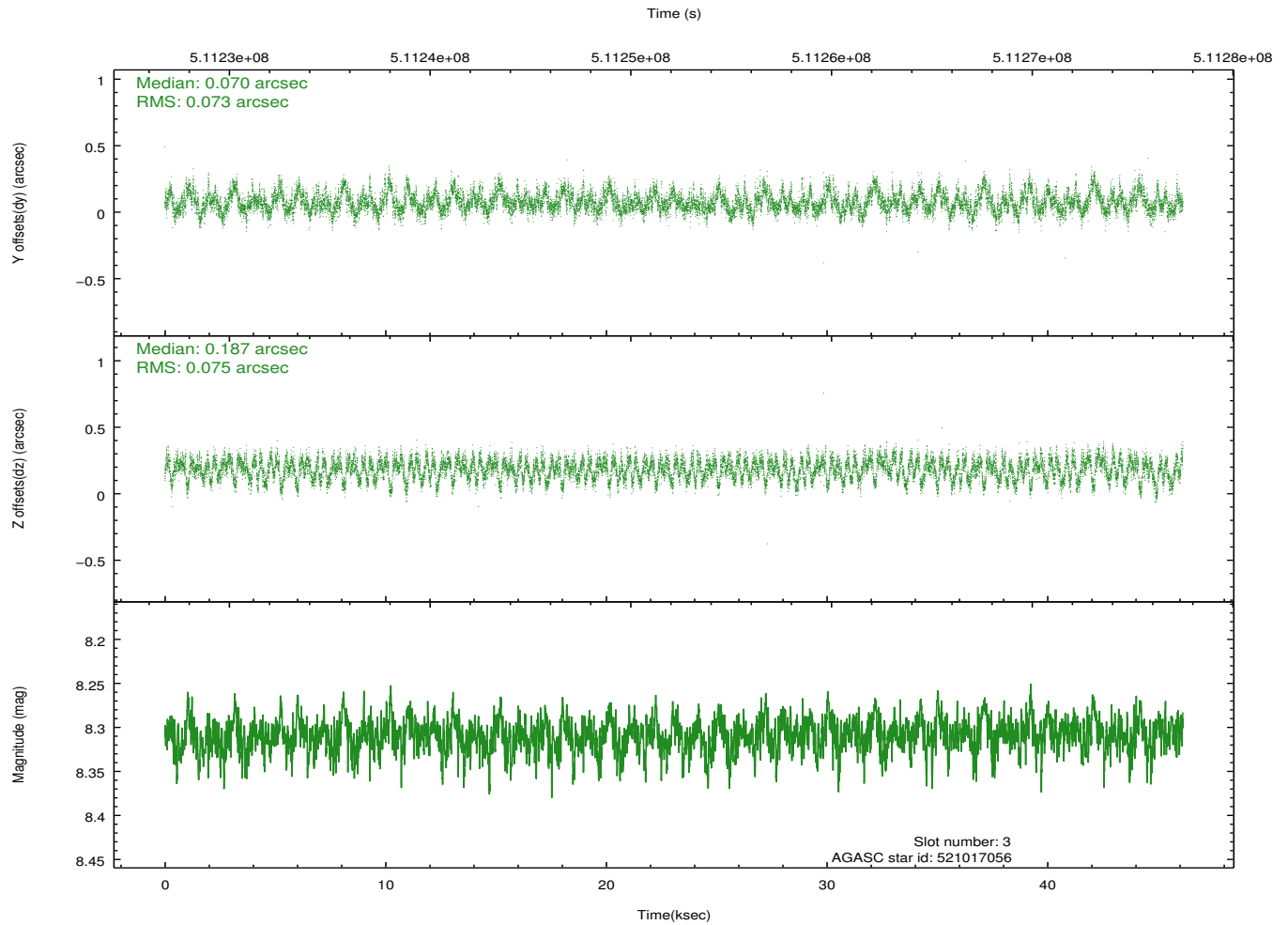
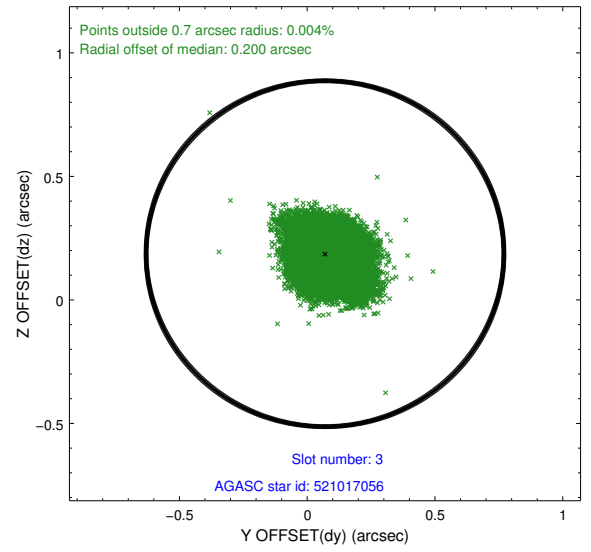
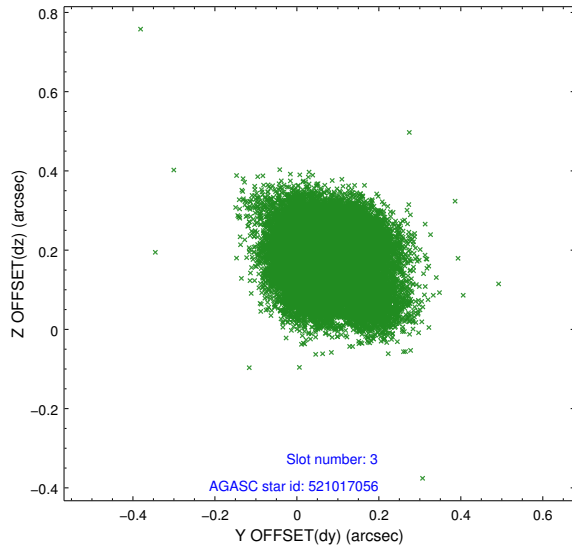
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	11254	0.137	0.057	0.014	0.056	0.000000	0.000000	915.88	-1740.61
1	FID		ACIS-S-2	6.93	11254	-0.187	-0.056	0.008	0.028	0.000000	0.000000	-780.35	-1745.22
2	FID		ACIS-S-6	7.15	11254	0.030	0.006	0.013	0.042	0.000000	0.000000	381.47	800.71
3	GUIDE	used	521017056	8.31	22503	0.070	0.187	0.111	0.181	326.148677	57.453442	2307.05	-1537.02
4	GUIDE	used	521018032	8.31	22501	-0.003	0.120	0.076	0.122	324.637664	57.165729	-722.92	-812.11
5	GUIDE	used	521020112	7.80	22506	0.087	0.147	0.074	0.116	324.609515	56.973735	-1150.64	-1357.83
6	GUIDE	used	521016400	8.57	22496	-0.112	-0.100	0.081	0.128	323.932642	57.467640	-1257.18	853.39
7	GUIDE	used	521014200	9.11	22424	-0.054	-0.366	0.124	0.205	325.156422	58.109888	1978.24	1479.93

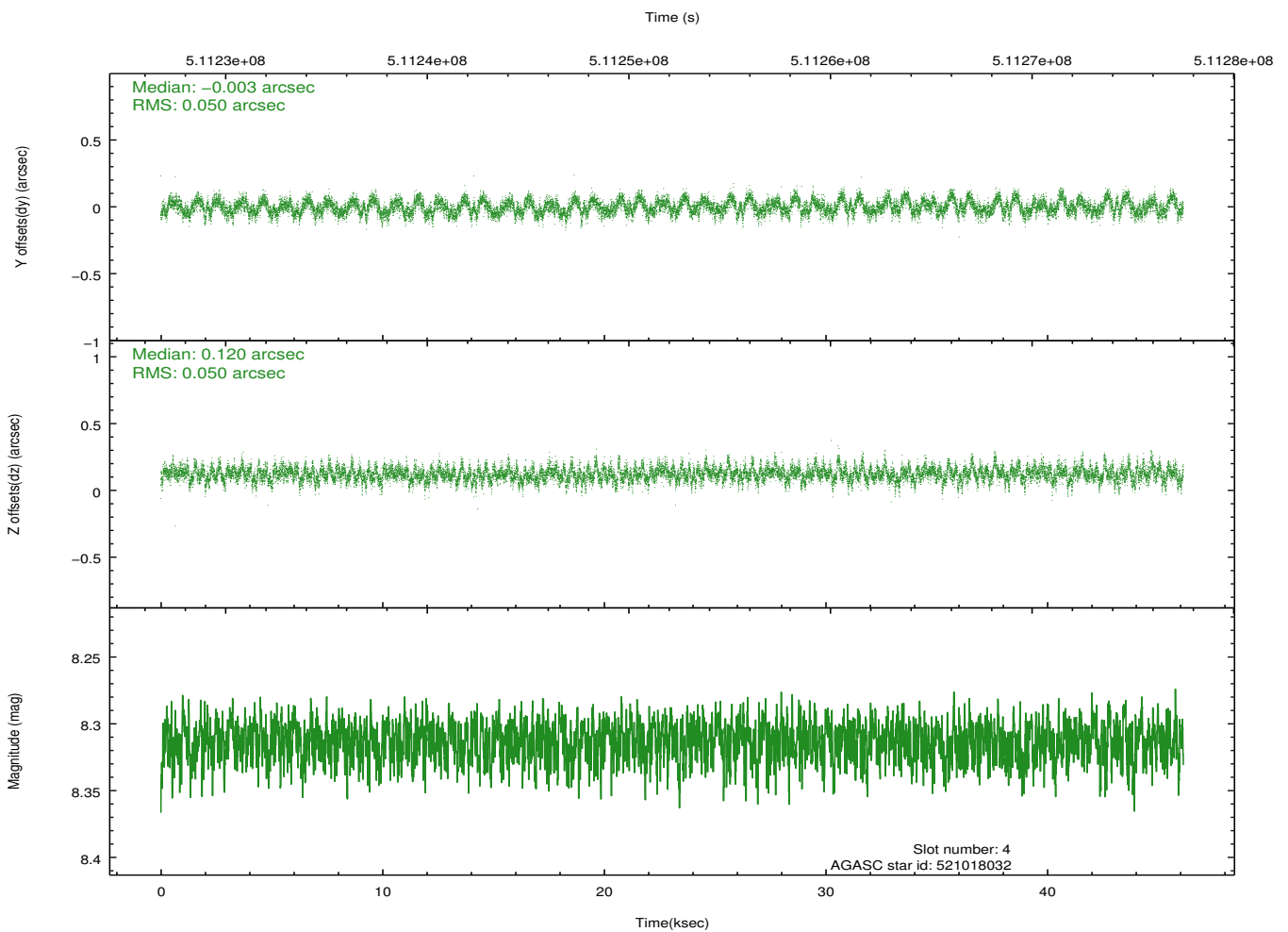
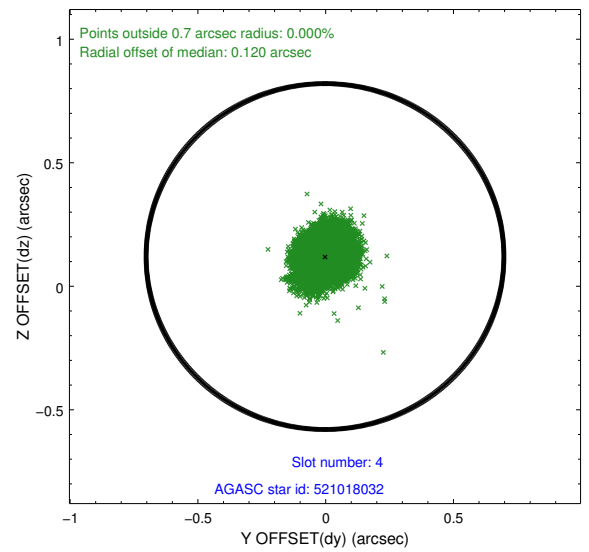
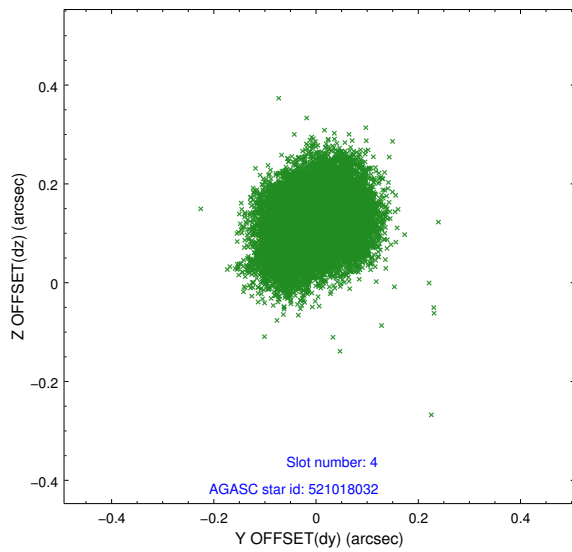
∞

2.4 Star Slots

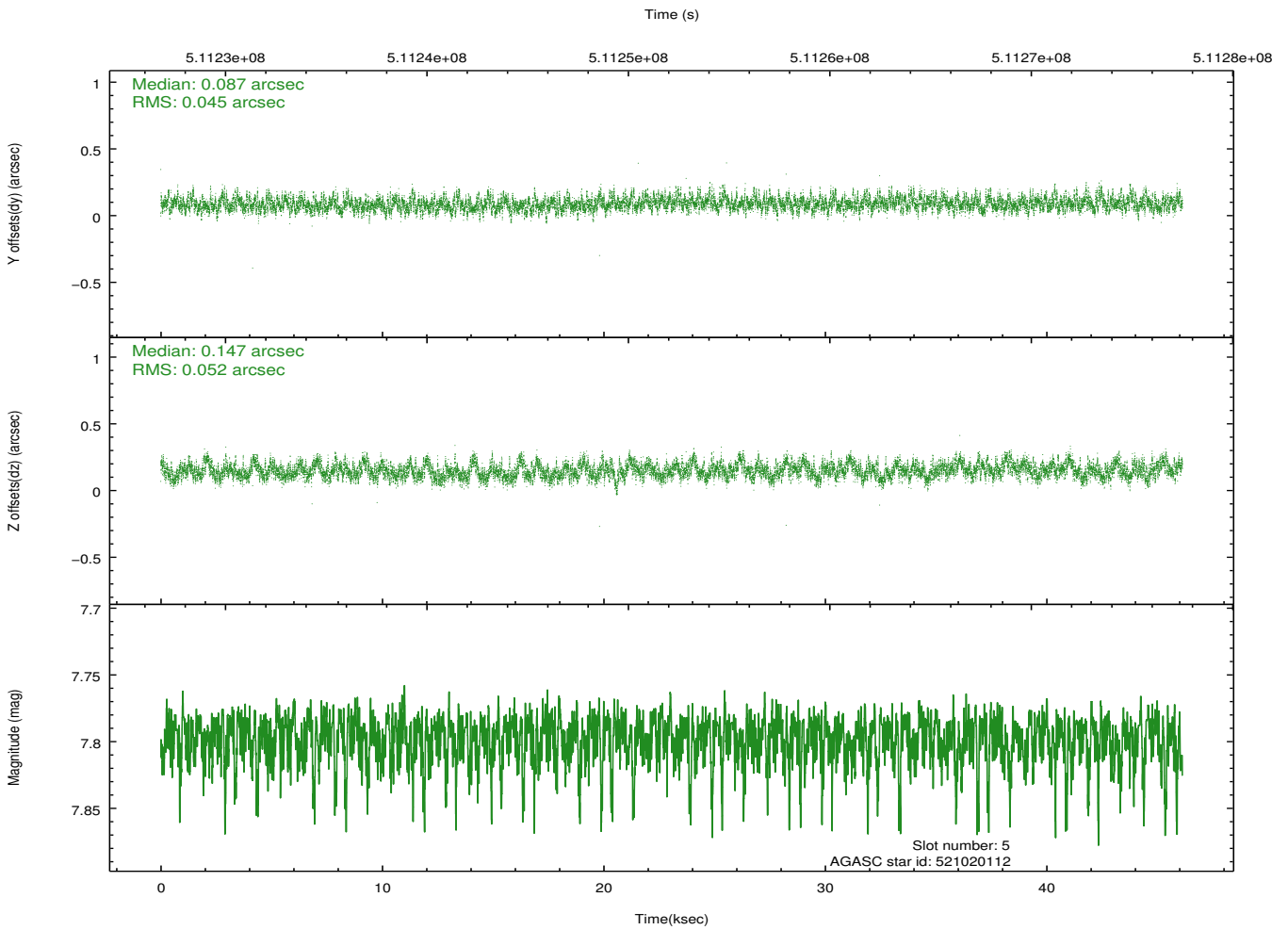
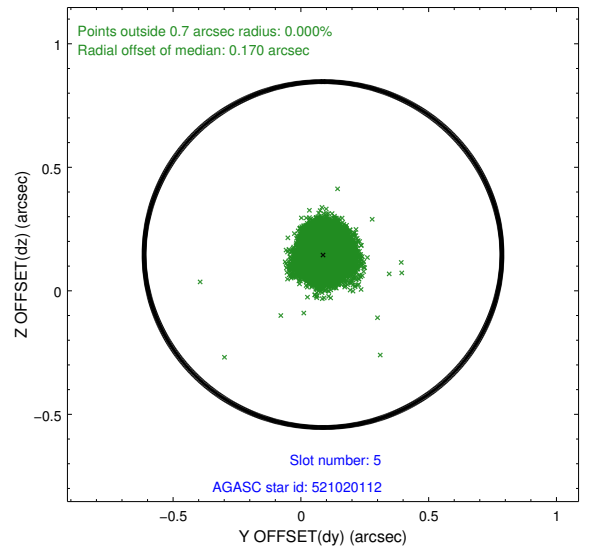
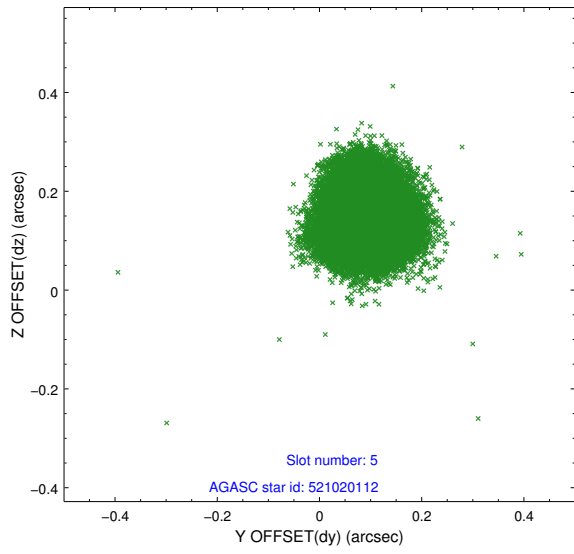
2.4.1 Slot 3



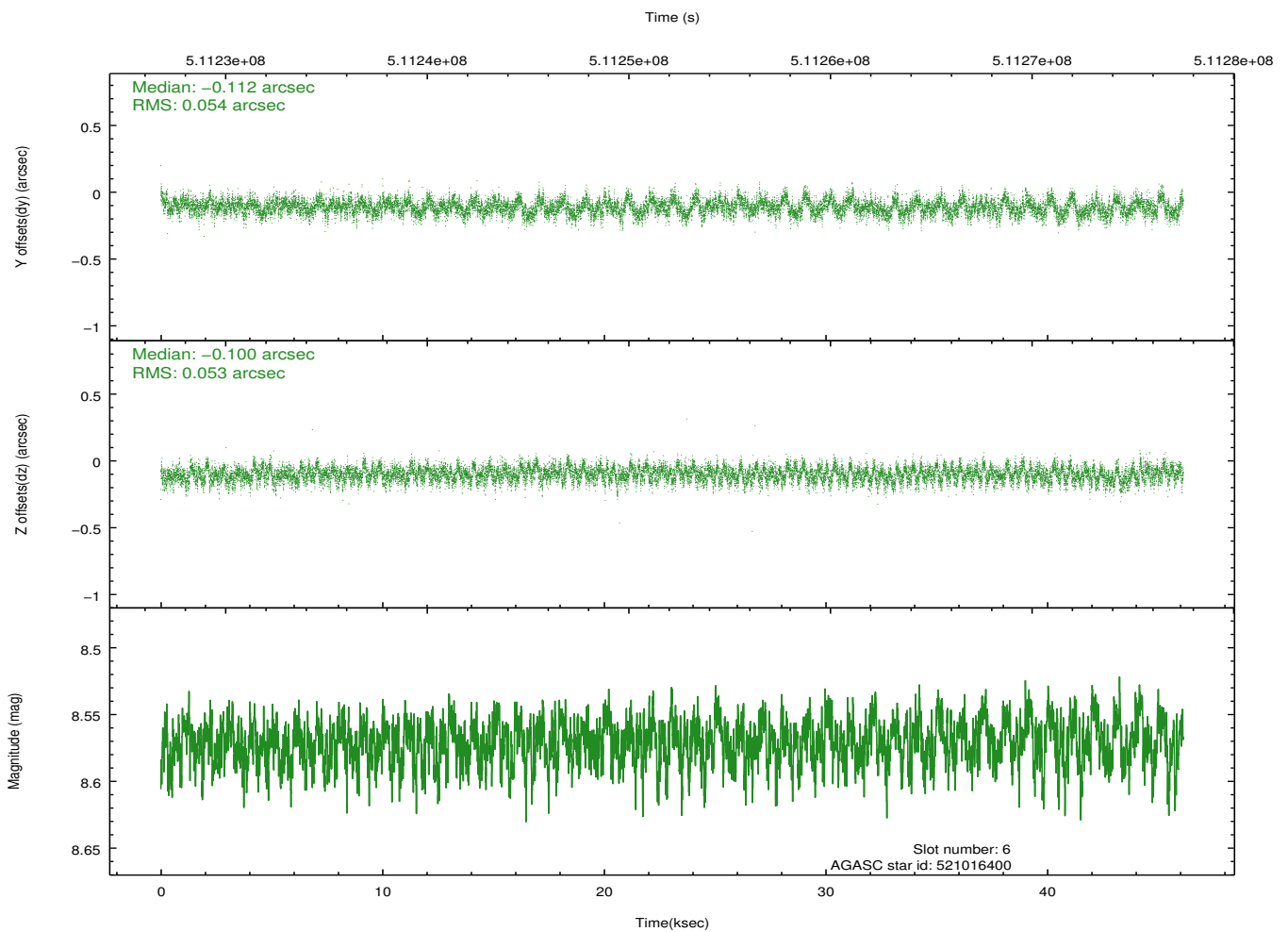
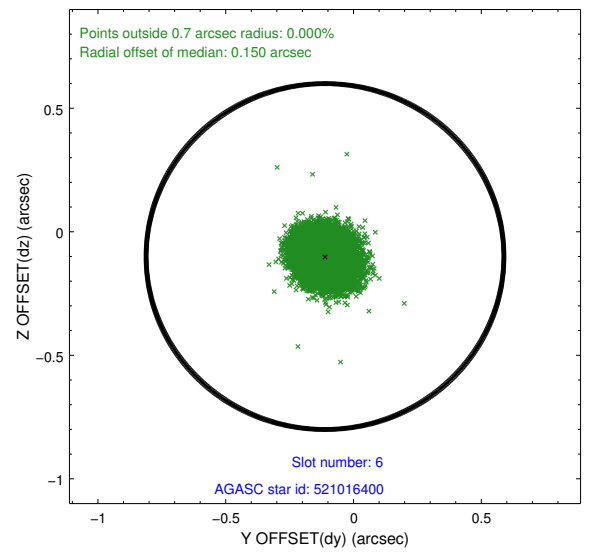
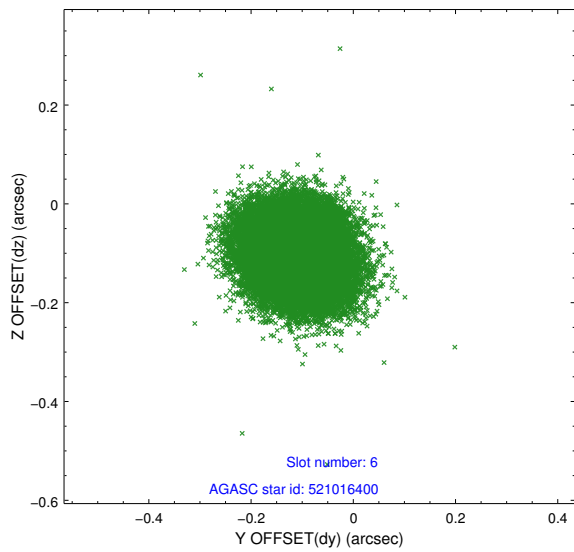
2.4.2 Slot 4



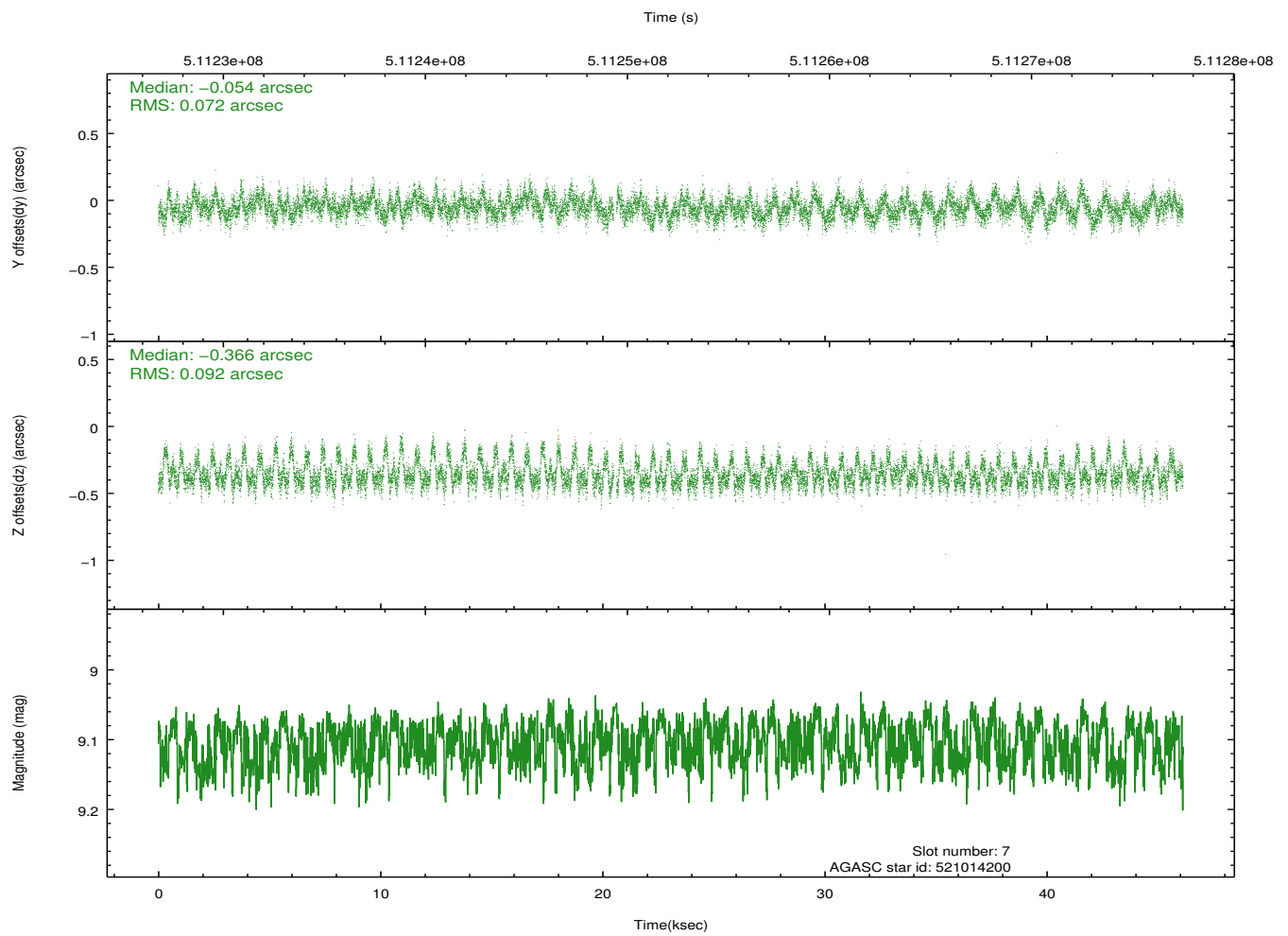
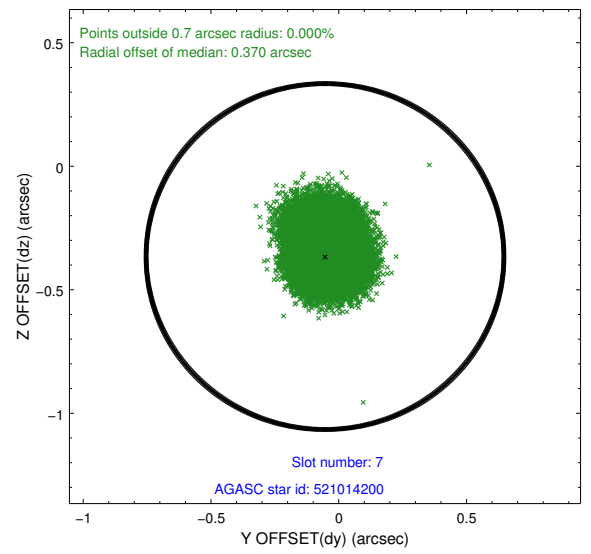
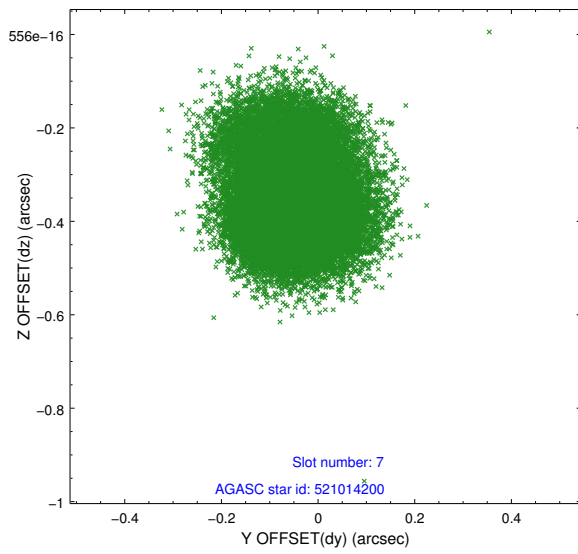
2.4.3 Slot 5



2.4.4 Slot 6

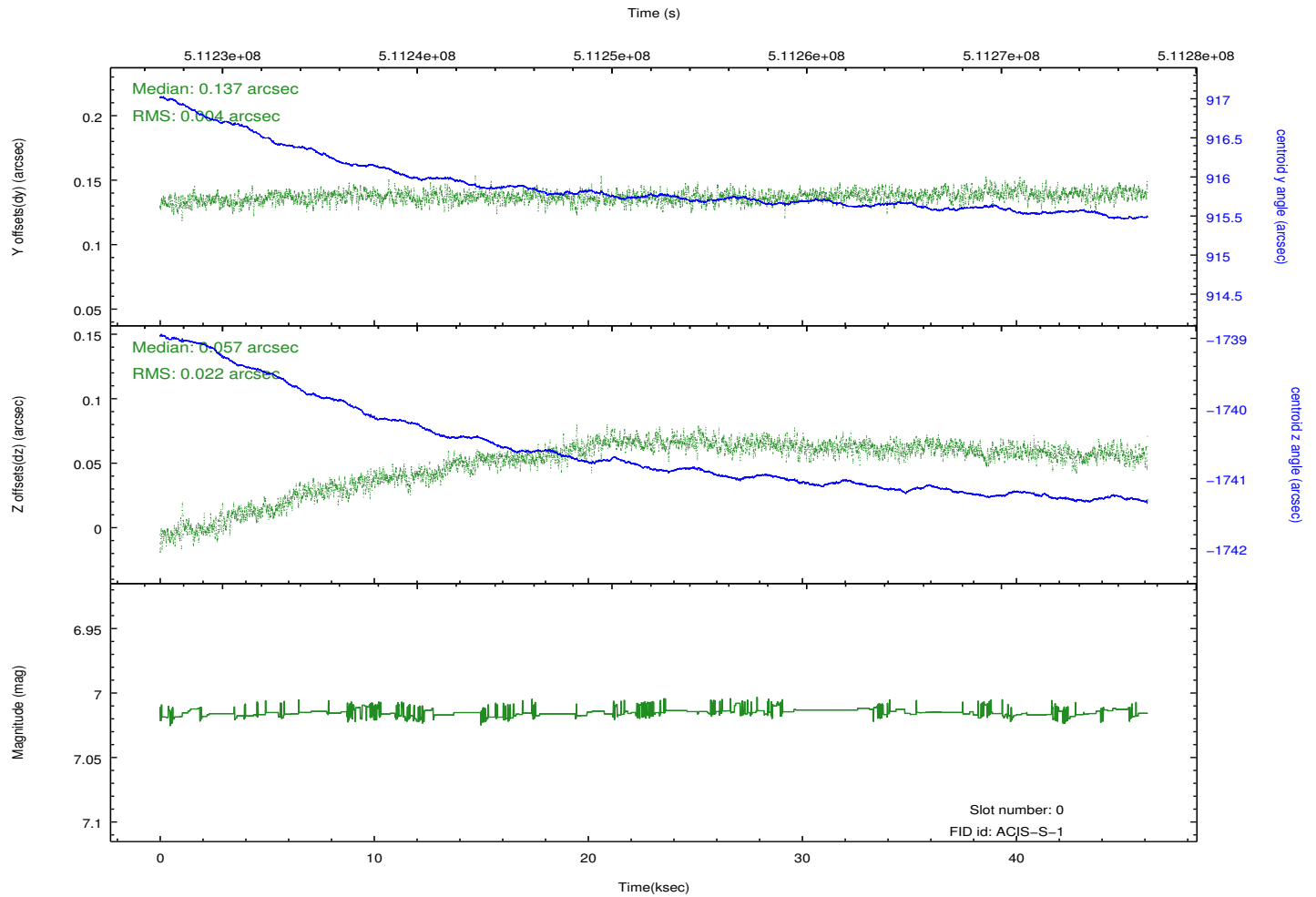
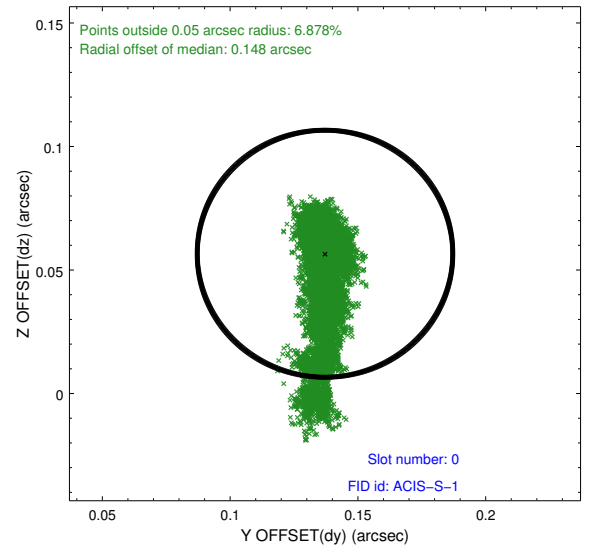
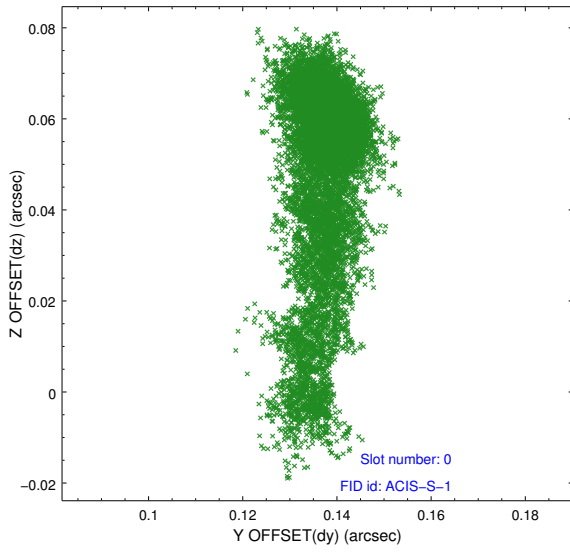


2.4.5 Slot 7

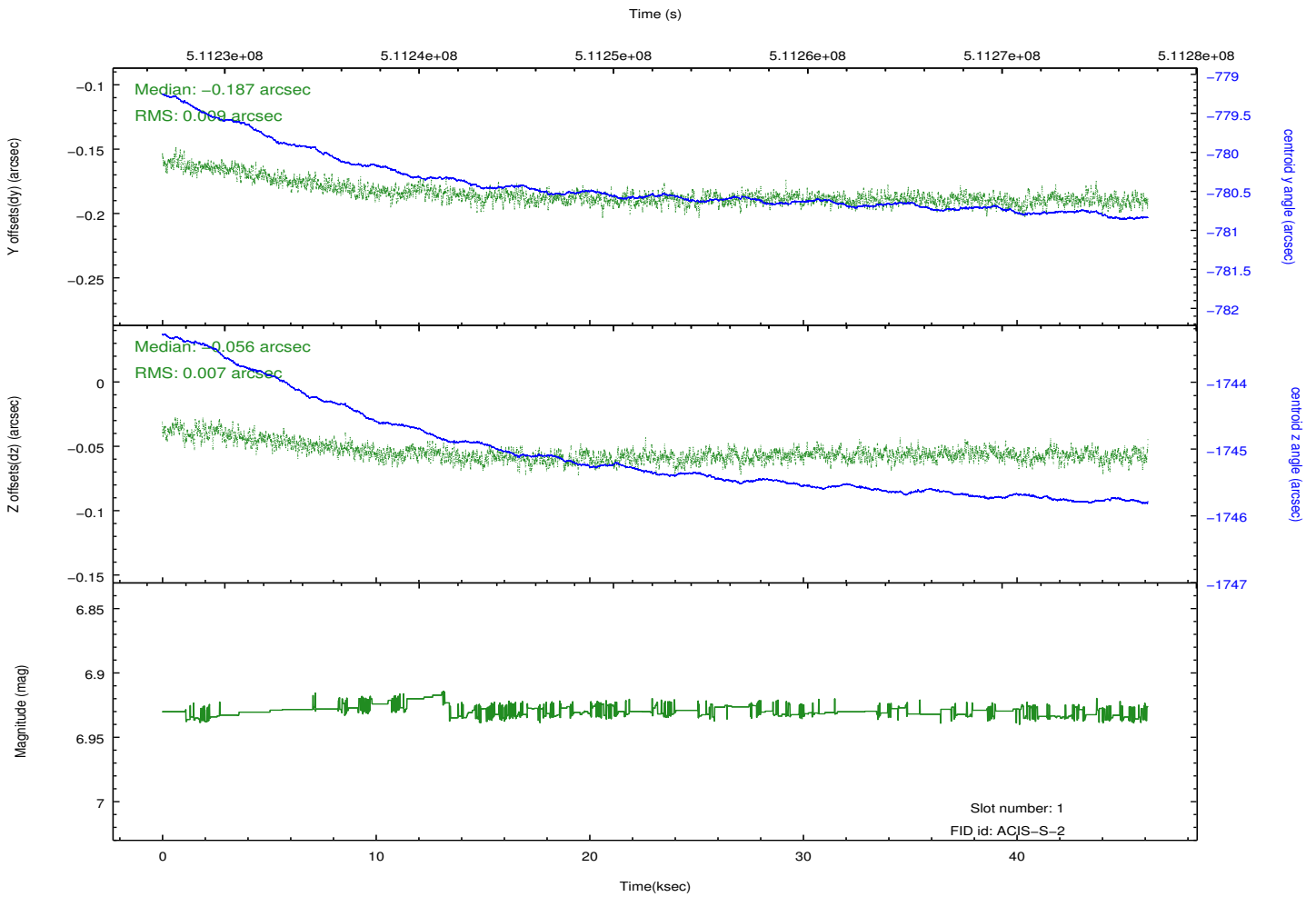
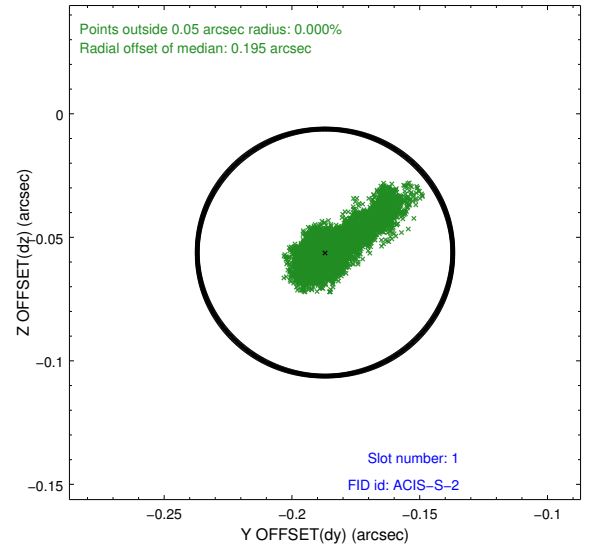
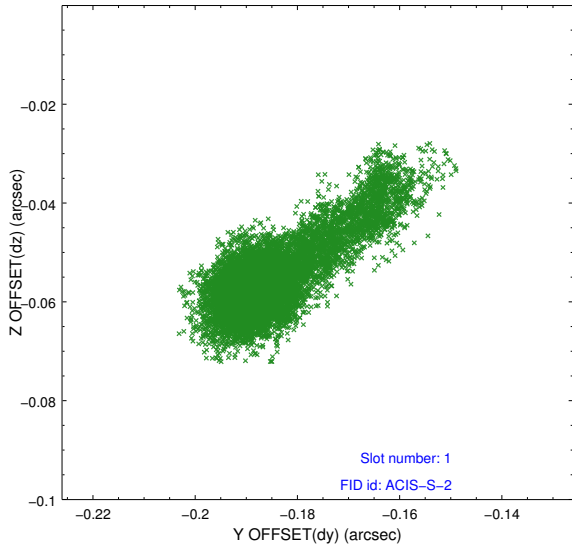


2.5 FID Slots

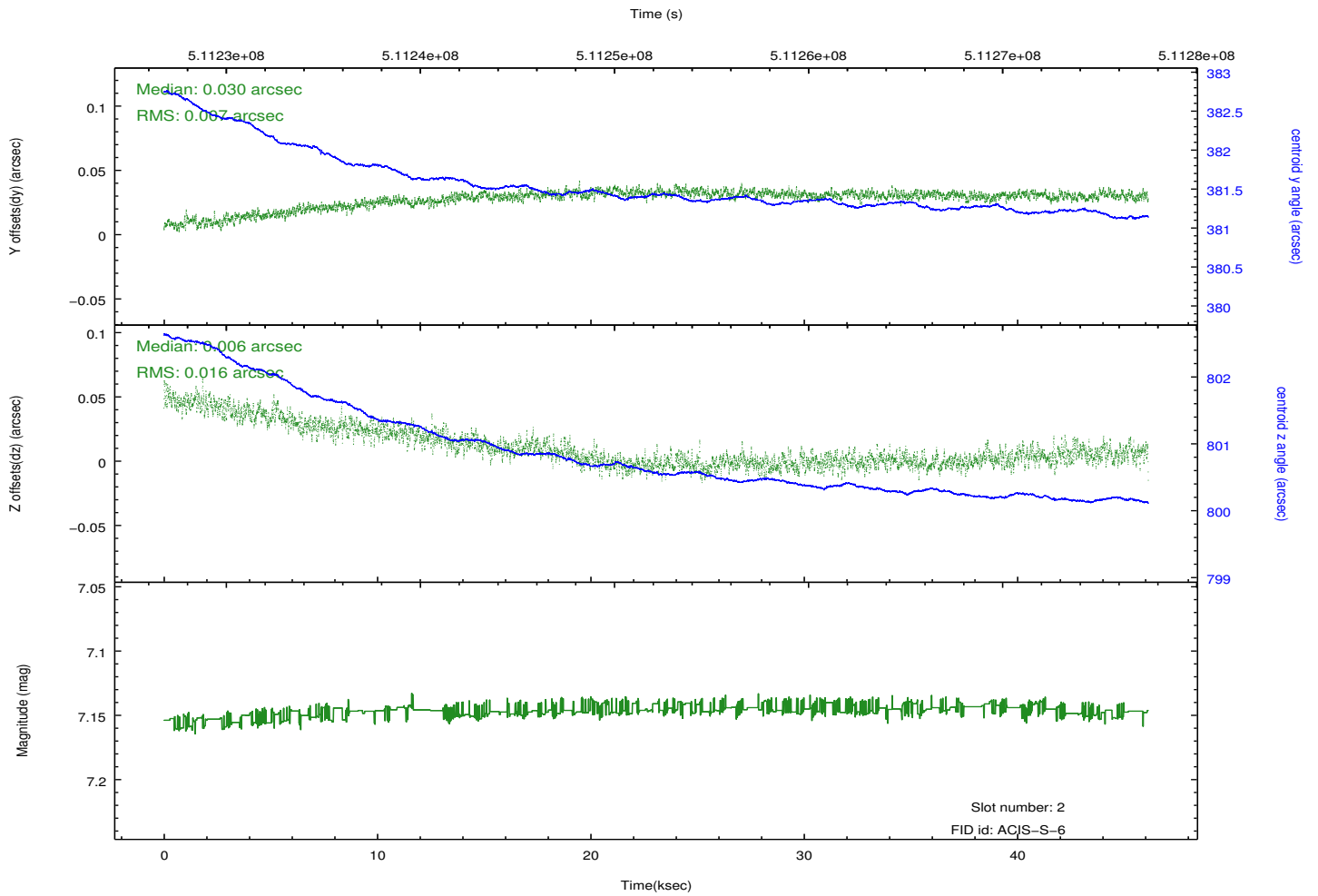
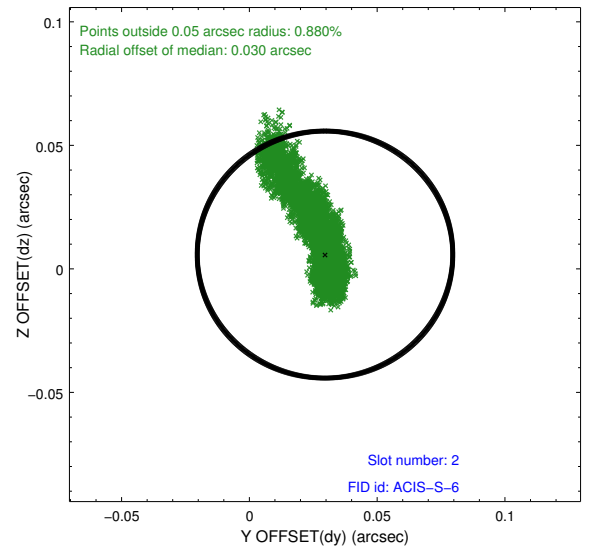
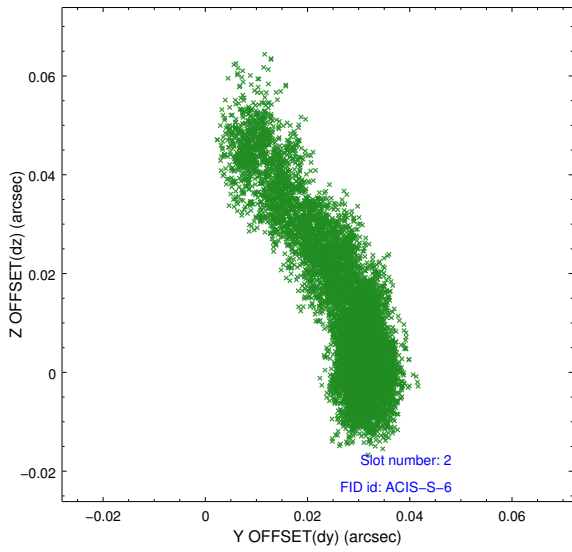
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

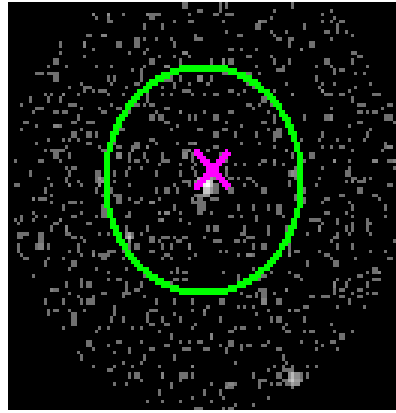


3 Gratings

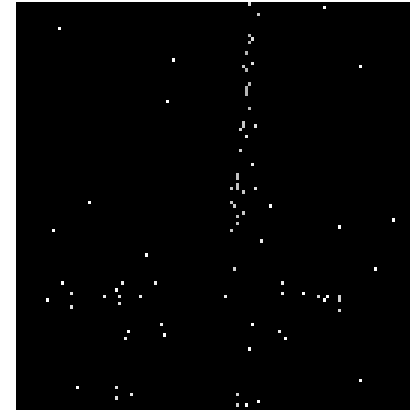
3.1 HEG Arm



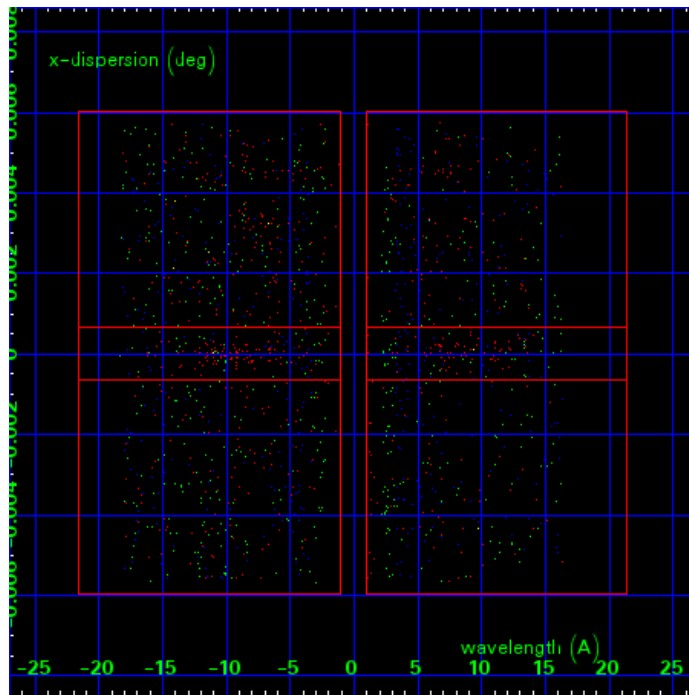
HEG Order Sort 123



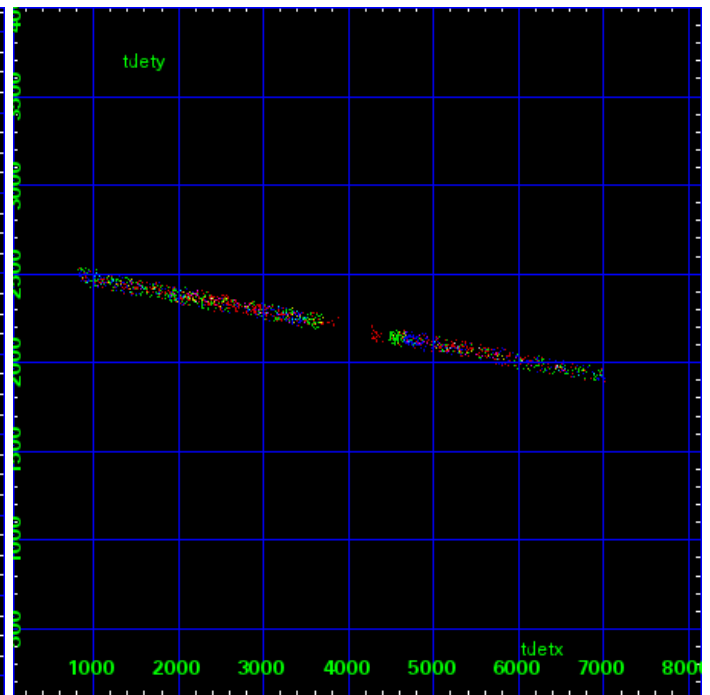
HEG Zero Order



HEG Order Sort ALL

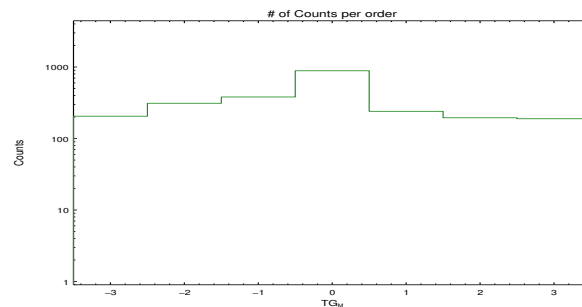


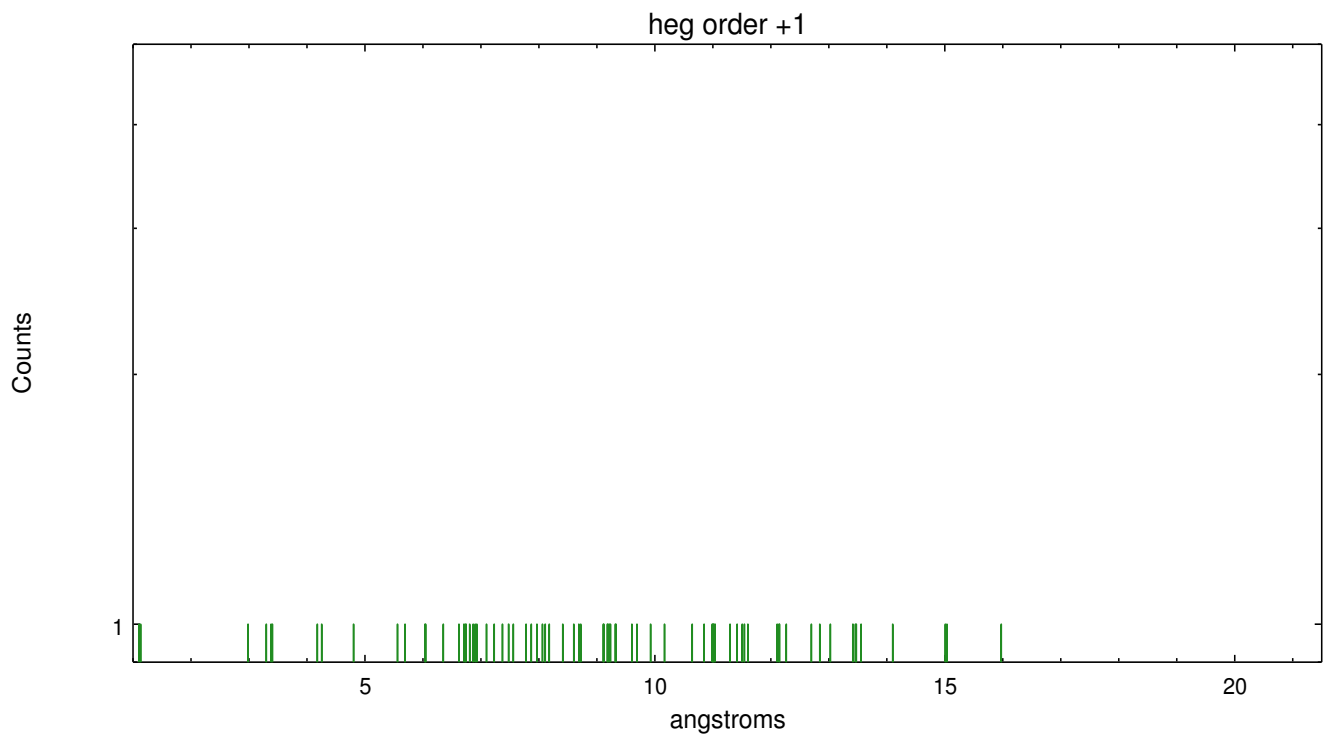
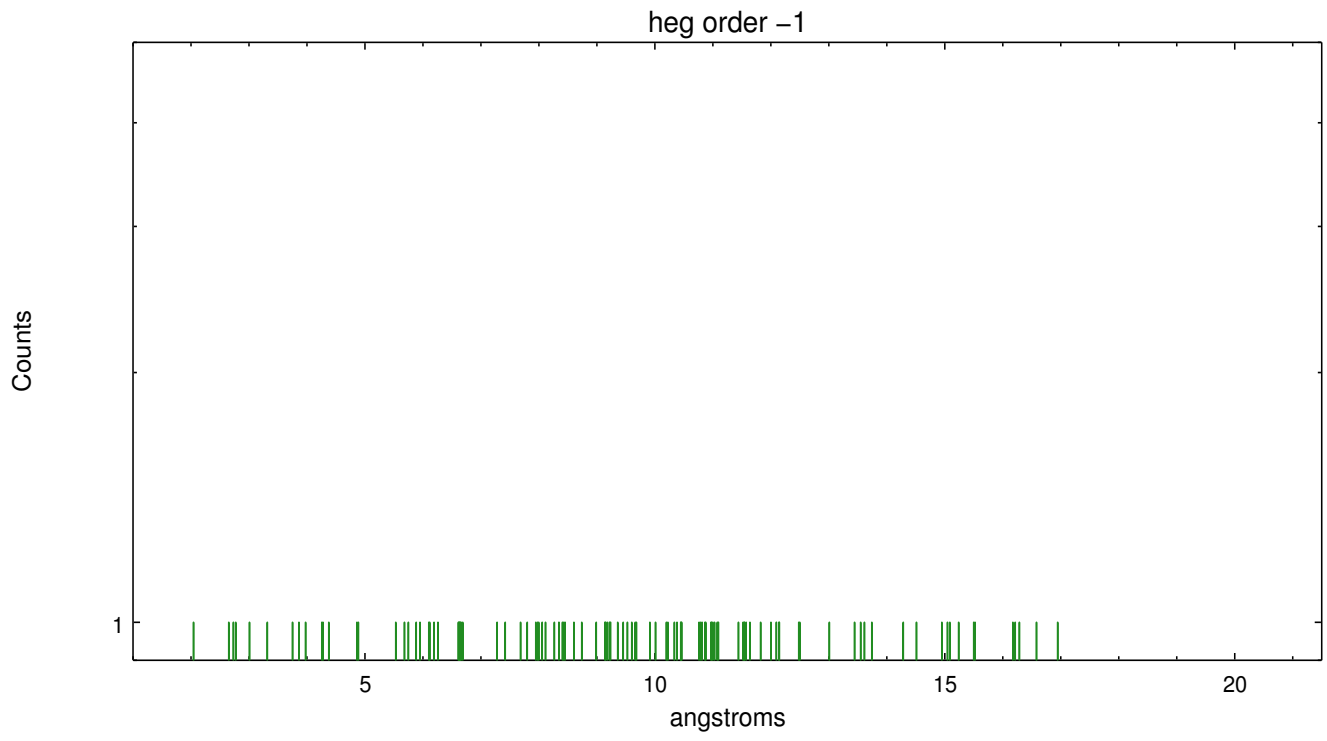
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	205	311	381	886	240	195	189

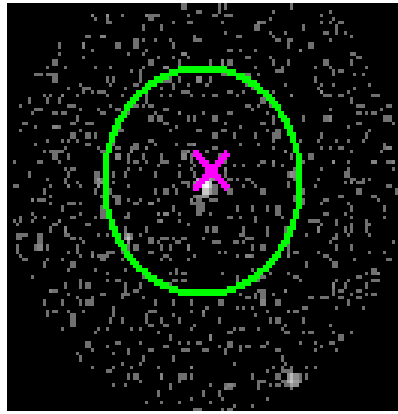




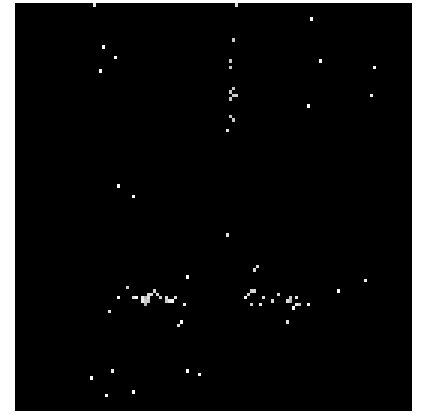
3.2 MEG Arm



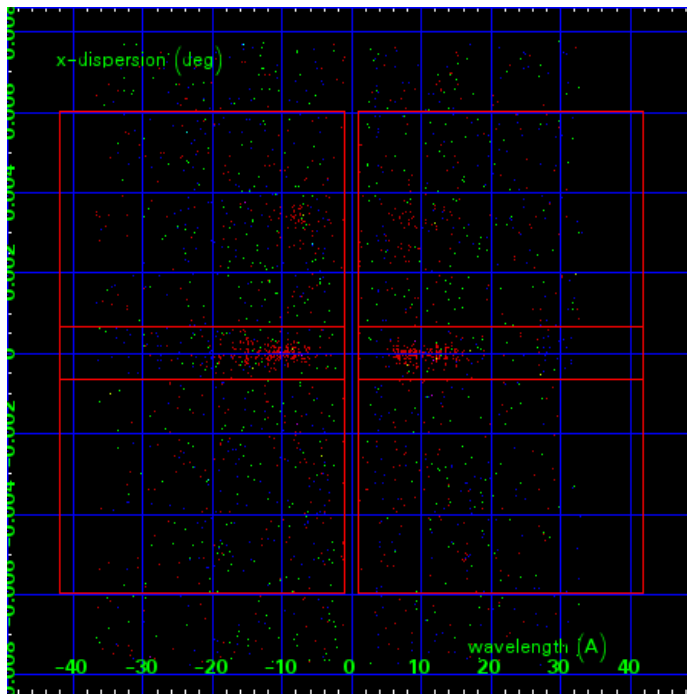
MEG Order Sort 123



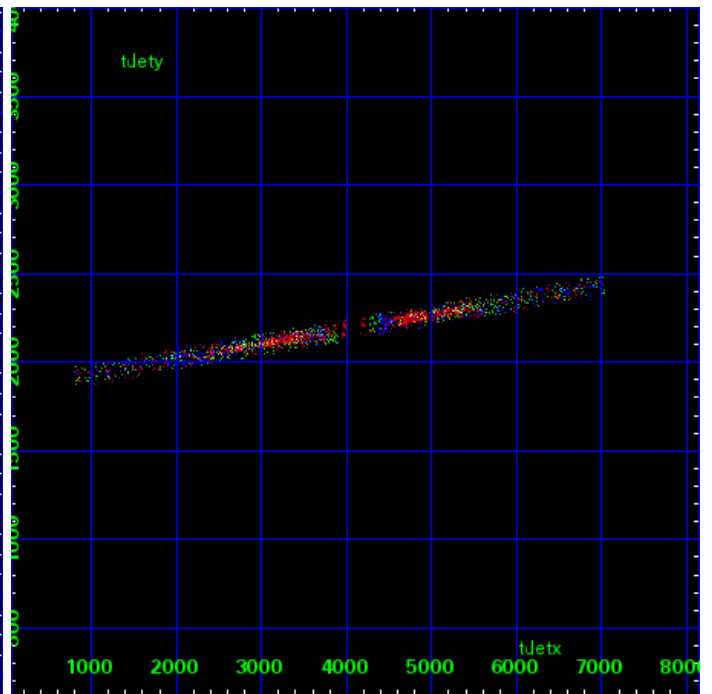
MEG Zero Order



MEG Order Sort ALL

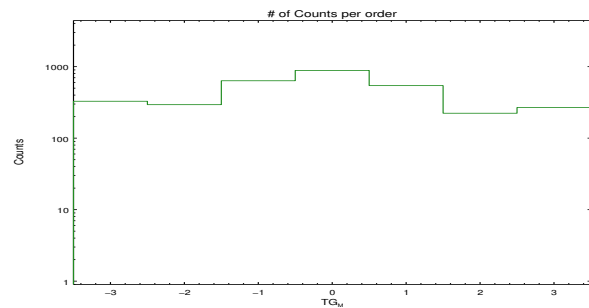


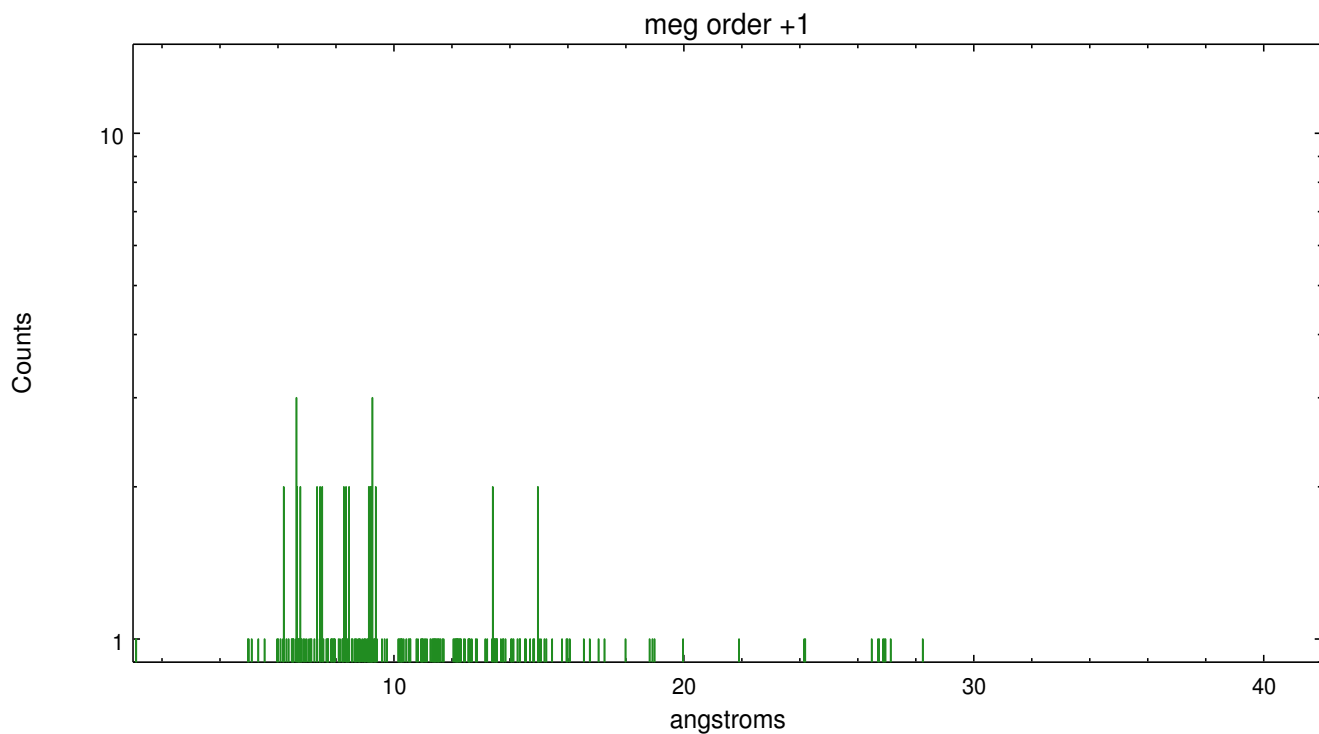
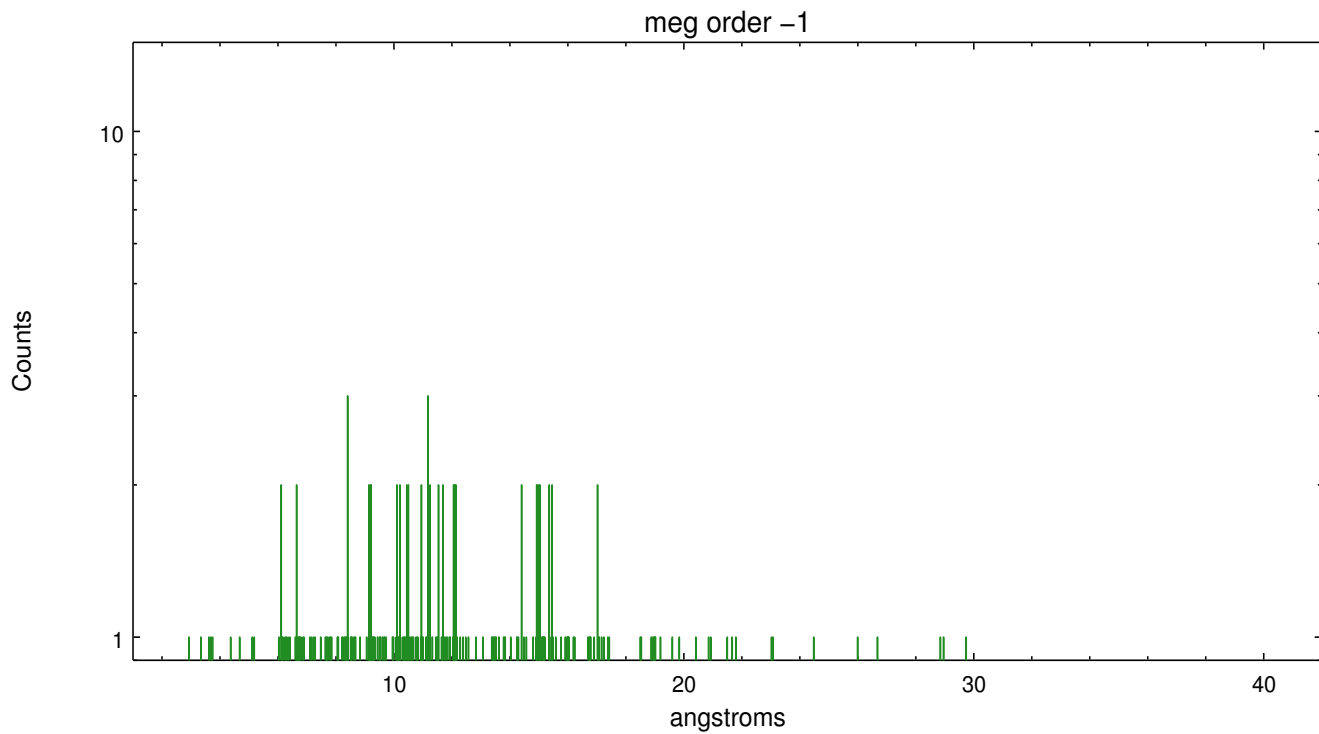
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	328	294	635	886	543	223	268





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.961584525049

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.