

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1889 - L2 Version 4
Chandra X-Ray Center

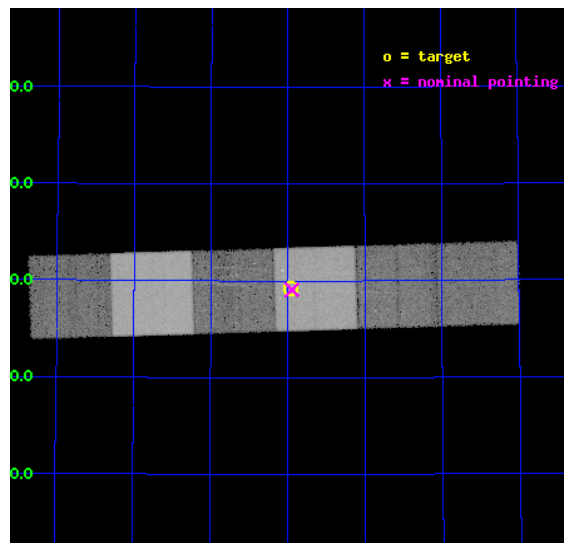
L2 Processing Date : Sep 16 2012

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1 Front

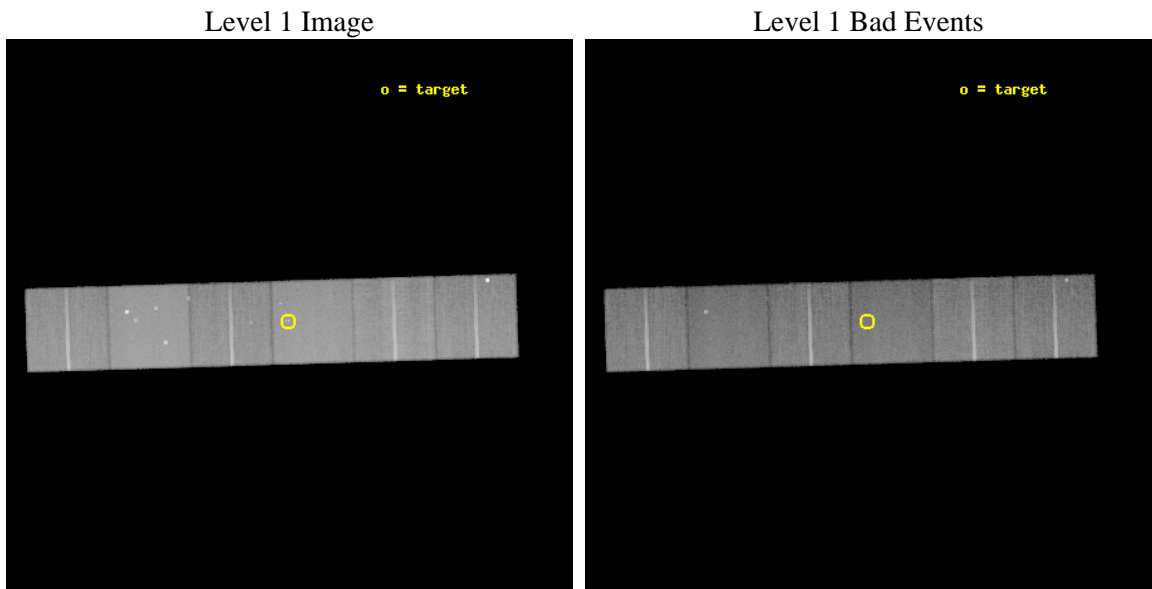
seq_num	200117	Sequence number
obs_id	1889	Observation id
title	HIGH RESOLUTION SPECTROSCOPY AND VARIABILITY OF THE TRAPEZIUM-LIKE SYSTEM HD 206267 IN IC 1396	Proposal title
observer	Dr. Norbert Schulz	Principal investigator
object	HD 206267	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	324.739583	Observer's specified target RA [deg]
dec_targ	57.486389	Observer's specified target Dec [deg]
ra_nom	324.73695941919	Nominal RA [deg]
dec_nom	57.4846955628	Nominal Dec [deg]
roll_nom	358.23777745726	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40005.716124833	Sum of GTIs [s]
livetime	39499.13965871	Livetime [s]
ontime4	40005.757164836	Sum of GTIs [s]
ontime5	40005.675084829	Sum of GTIs [s]
ontime6	40005.634044841	Sum of GTIs [s]
ontime7	40005.716124833	Sum of GTIs [s]
ontime8	40005.592905149	Sum of GTIs [s]
ontime9	40002.310984671	Sum of GTIs [s]
l2events	373024	Number of level 2 events



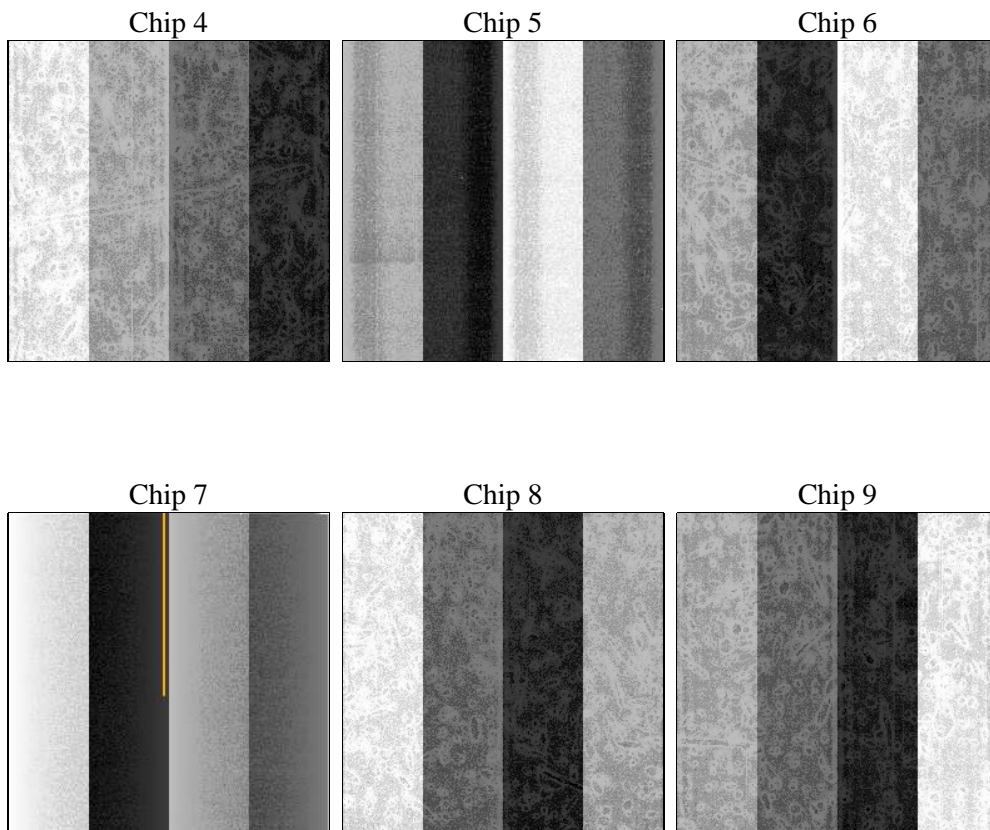
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40280.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40005.716124833	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime4	40005.757164836	Sum of GTIs [s]
date	2012-09-16T03:38:46	Date and time of file creation	ontime5	40005.675084829	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	40005.634044841	Sum of GTIs [s]
			ontime7	40005.716124833	Sum of GTIs [s]
			ontime8	40005.592905149	Sum of GTIs [s]
			ontime9	40002.310984671	Sum of GTIs [s]
			l1events	1769184	Number of level 1 events

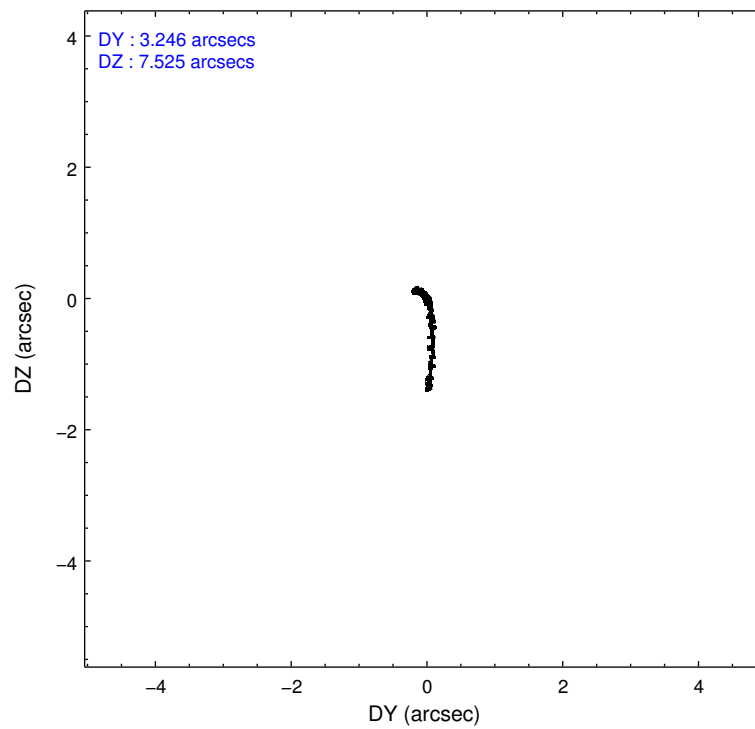
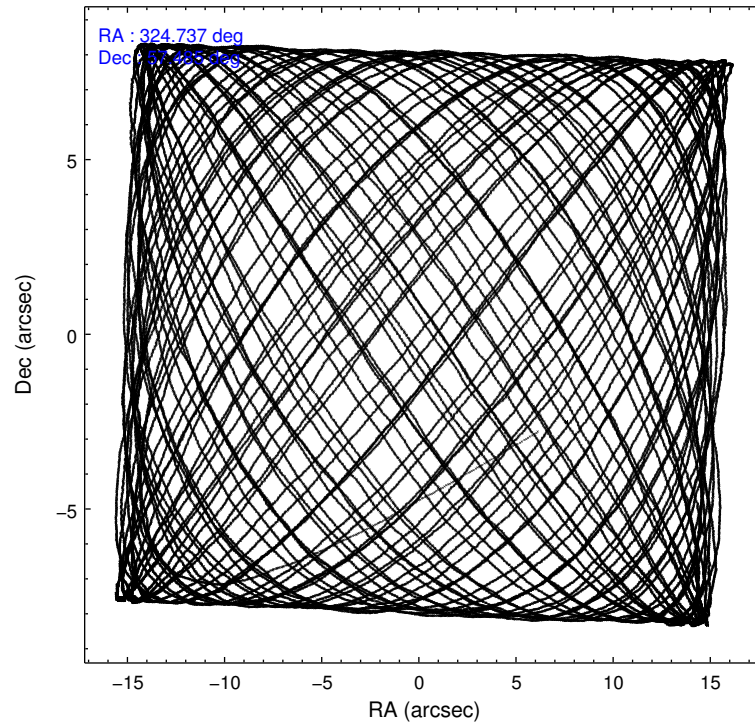
2.1.4 Events

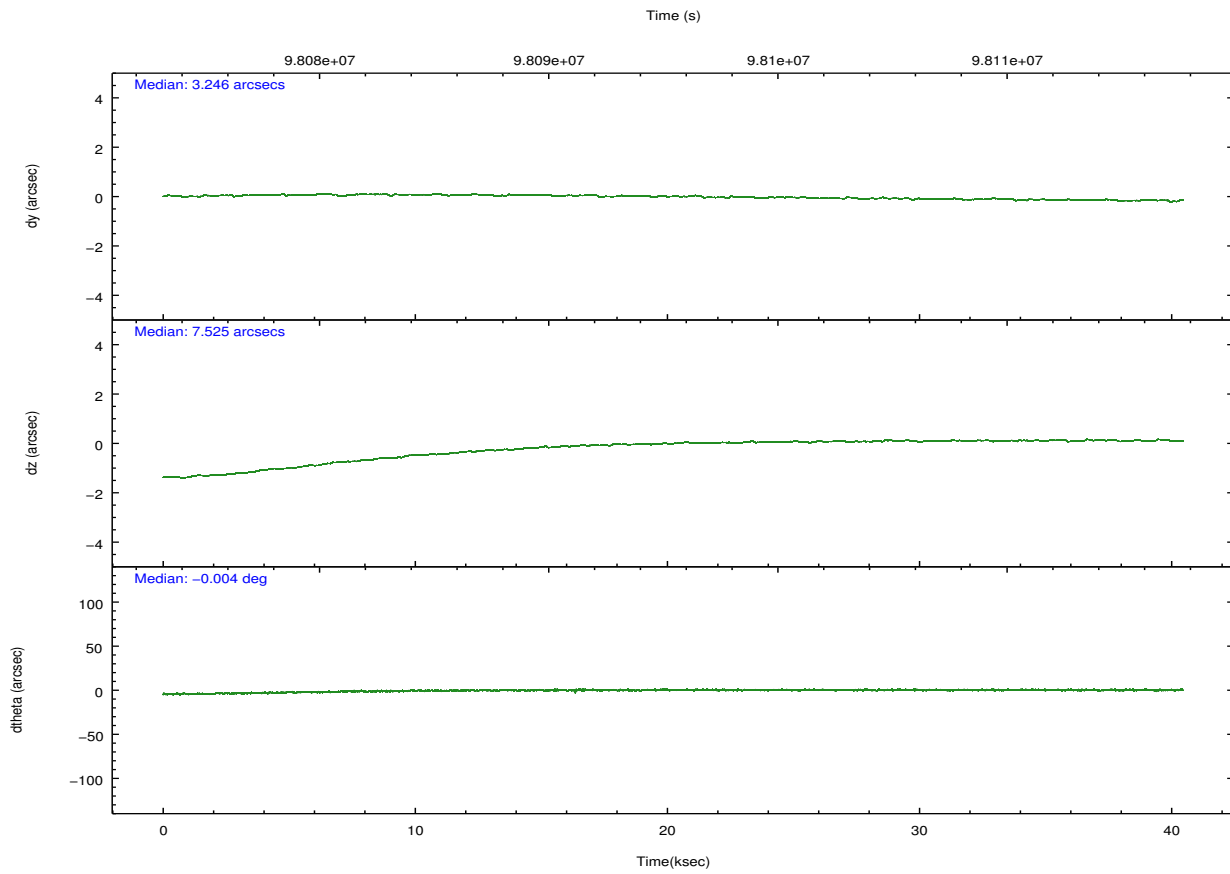
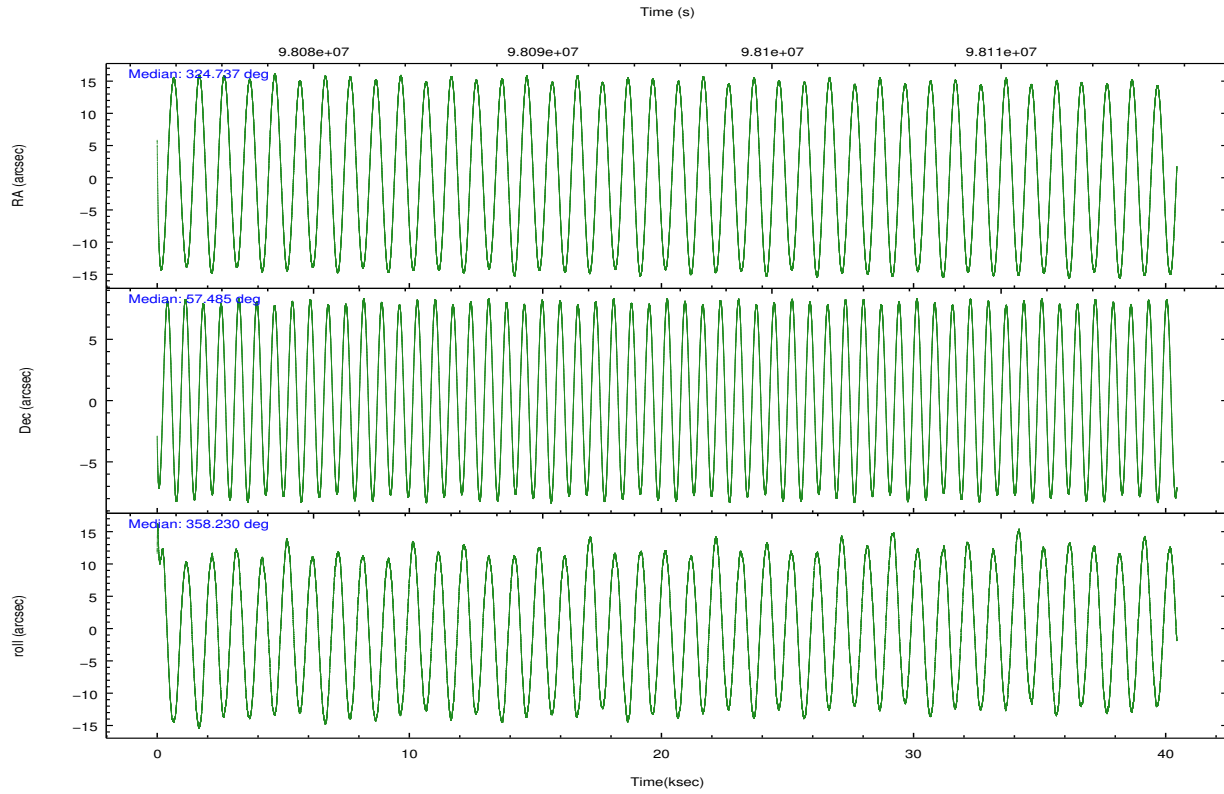
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	277638	348130	251702	315268	315998	260448	grade 0 events	11592	22149	12563	12057	19943	22487
rejected events	248780	187510	222235	184769	254258	220824		4%	6%	4%	3%	6%	8%
rejected %	89%	53%	88%	58%	80%	84%	grade 1 events	132	1987	144	295	172	1081
								0%	0%	0%	0%	0%	0%
							grade 2 events	6832	44710	5750	25701	13174	5818
								2%	12%	2%	8%	4%	2%
							grade 3 events	2710	6556	2879	12094	6451	2779
								0%	1%	1%	3%	2%	1%
							grade 4 events	2642	6543	2820	12094	6190	2917
								0%	1%	1%	3%	1%	1%
							grade 5 events	8632	25860	10275	30192	13251	10785
								3%	7%	4%	9%	4%	4%
							grade 6 events	5084	80675	5457	68562	15987	5629
								1%	23%	2%	21%	5%	2%
							grade 7 events	240014	159650	211814	154273	240830	208952
								86%	45%	84%	48%	76%	80%

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	324.692456	324.7369594191896	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.471543	57.48469556279998	Alternating exposures requested	N	N
[deg] Pointing Roll	358.118670	358.2377774572577	[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			
Phase constraints	Y	Y			
[d] Phase period	3.709800	3.709800			
[d] Phase epoch (MJD)	51094.120000	51094.120000			
Phase start	0.450000	0.450000			
Phase end	0.550000	0.550000			
Phase start error	0.050000	0.050000			
Phase end error	0.050000	0.050000			
[s] Observation start time (MET)	98075367.184000	98074514.656187			
Observation start date	2001-02-09T03:08:23	2001-02-09T02:55:14			
[s] Observation end time (MET)	98115647.184000	98116135.29528999			
Observation end date	2001-02-09T14:19:43	2001-02-09T14:28:55			
Read mode	TIMED	TIMED			

2.3 Aspect



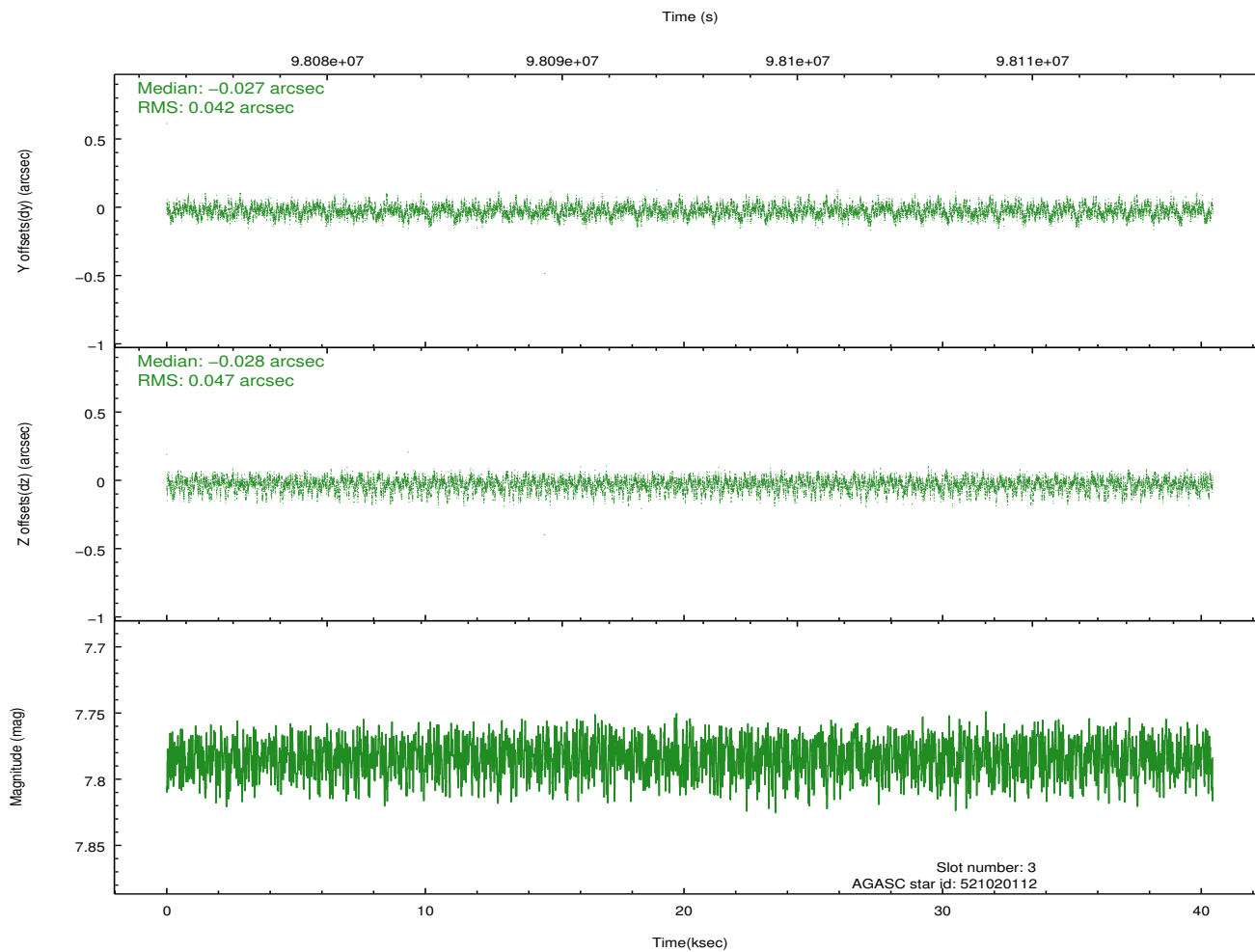
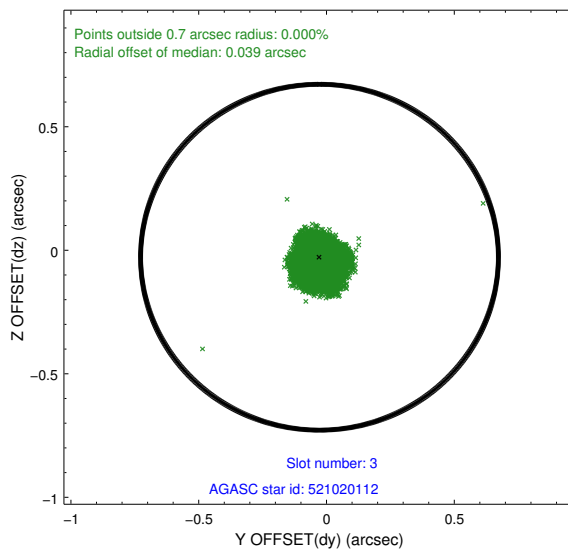
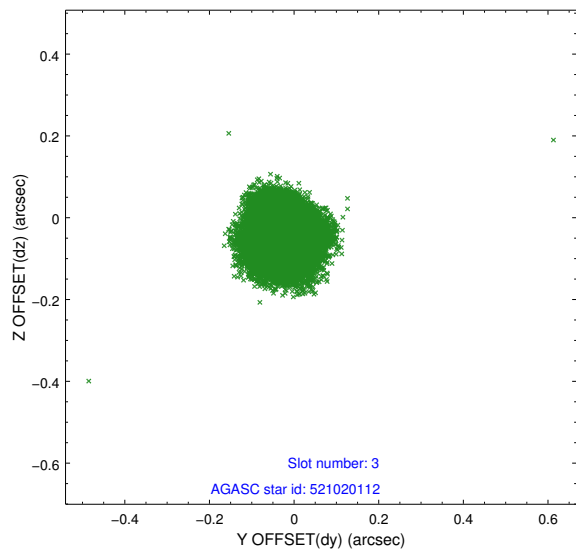


Slot Statistics

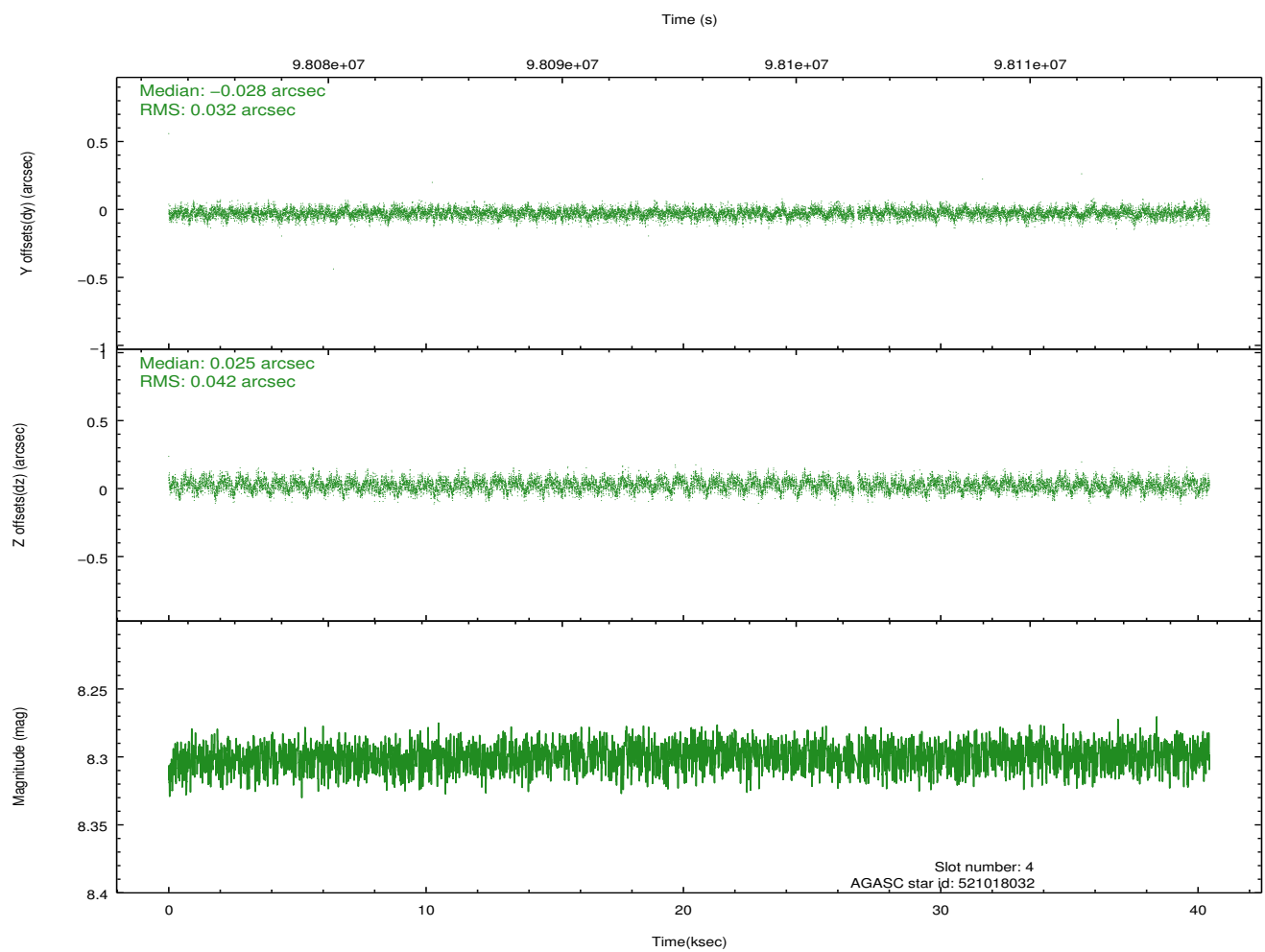
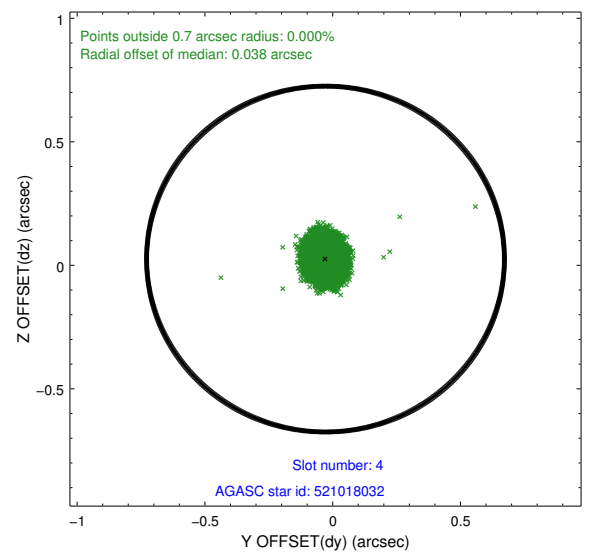
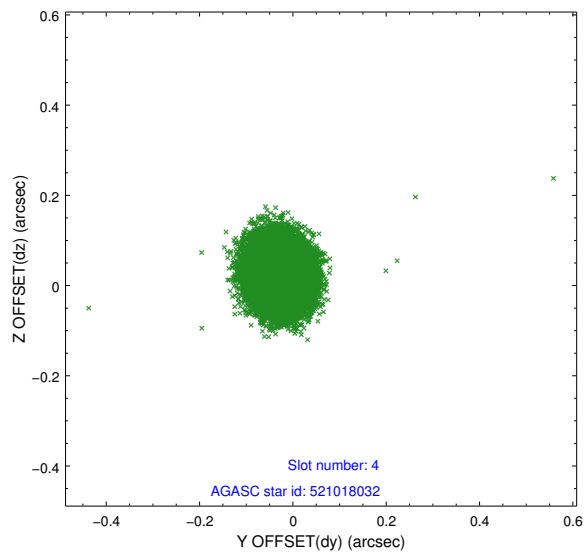
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	9864	0.031	-0.047	0.015	0.024	0.000000	0.000000	940.15	-1724.15
1	FID	ACIS-S-5	7.24	9866	-0.008	0.036	0.013	0.028	0.000000	0.000000	-1808.83	173.54
2	FID	ACIS-S-6	7.35	9865	-0.045	0.021	0.021	0.045	0.000000	0.000000	405.68	817.46
3	GUIDE	521020112	7.78	19730	-0.027	-0.028	0.067	0.109	324.609515	56.973735	-103.52	-1797.07
4	GUIDE	521018032	8.30	19655	-0.028	0.025	0.056	0.090	324.637664	57.165729	-70.54	-1104.50
5	GUIDE	521023608	8.78	19723	-0.023	-0.011	0.060	0.100	325.041395	57.195436	712.96	-969.97
6	GUIDE	521016064	8.96	19721	0.024	0.091	0.076	0.122	325.938547	57.912907	2328.62	1687.97
7	GUIDE	521545688	8.62	19722	0.054	-0.068	0.097	0.158	324.248507	58.140166	-922.43	2380.08

2.4 Star Slots

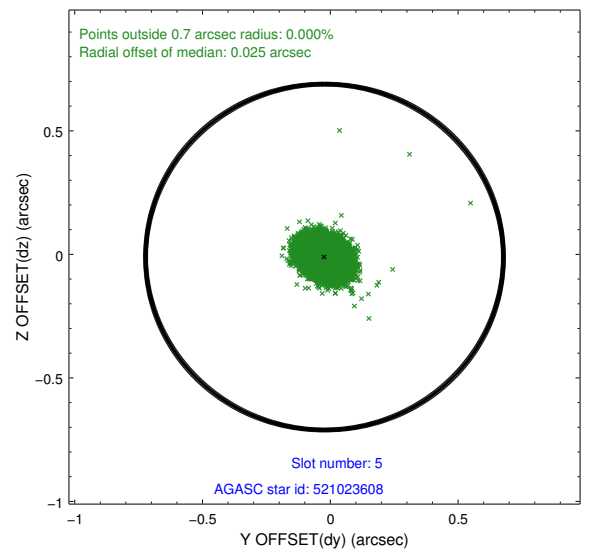
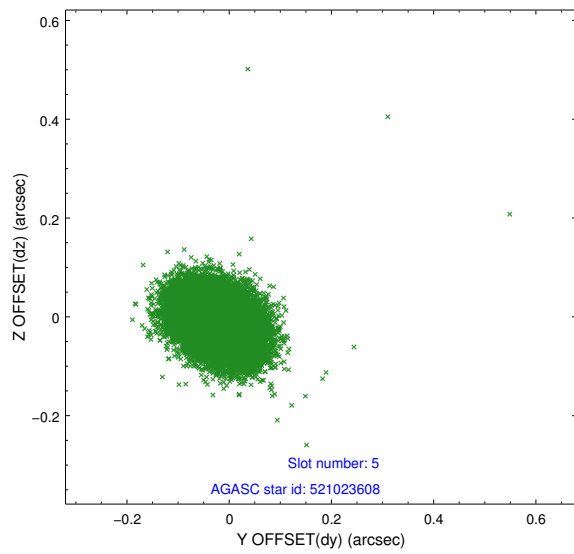
2.4.1 Slot 3



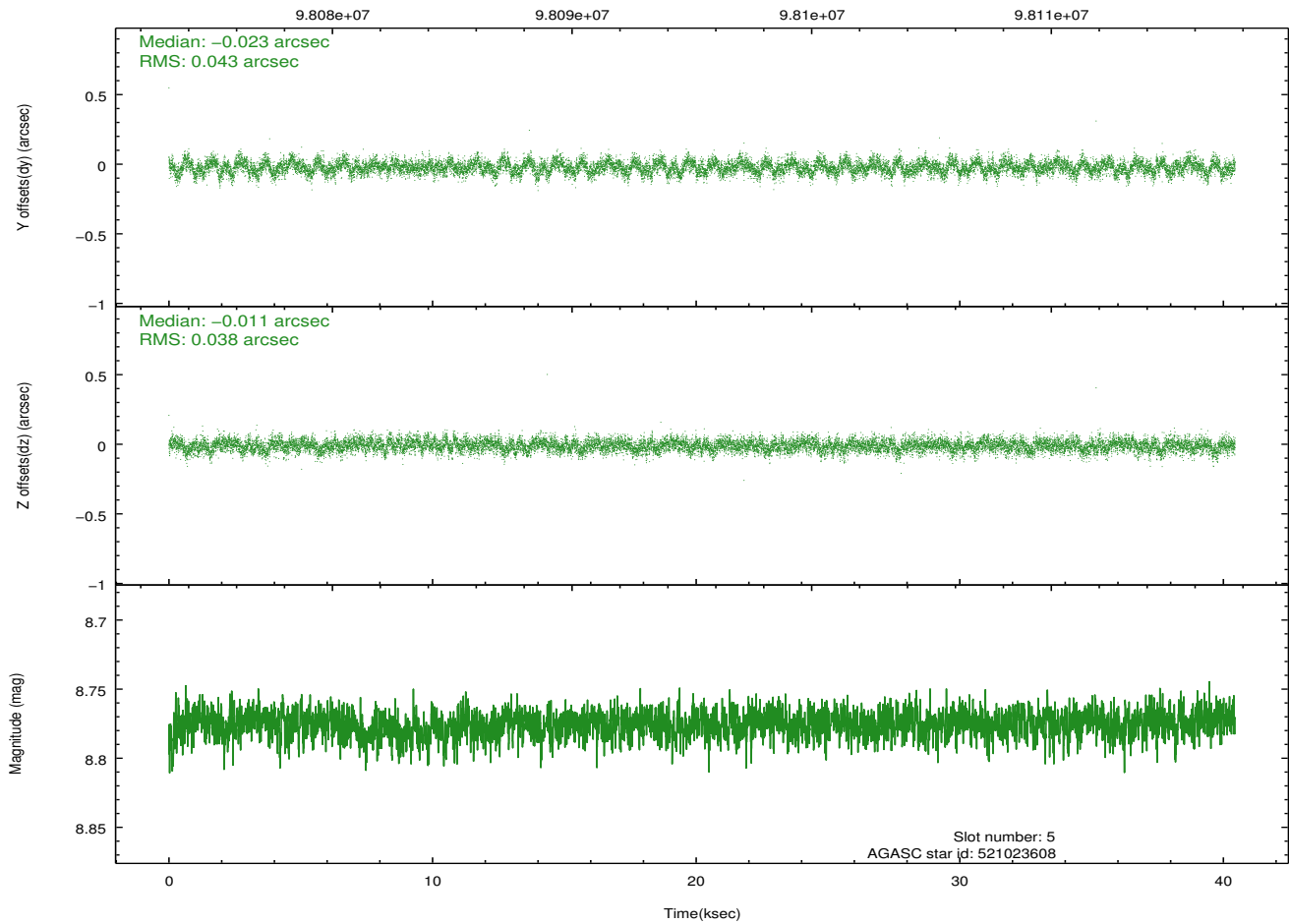
2.4.2 Slot 4



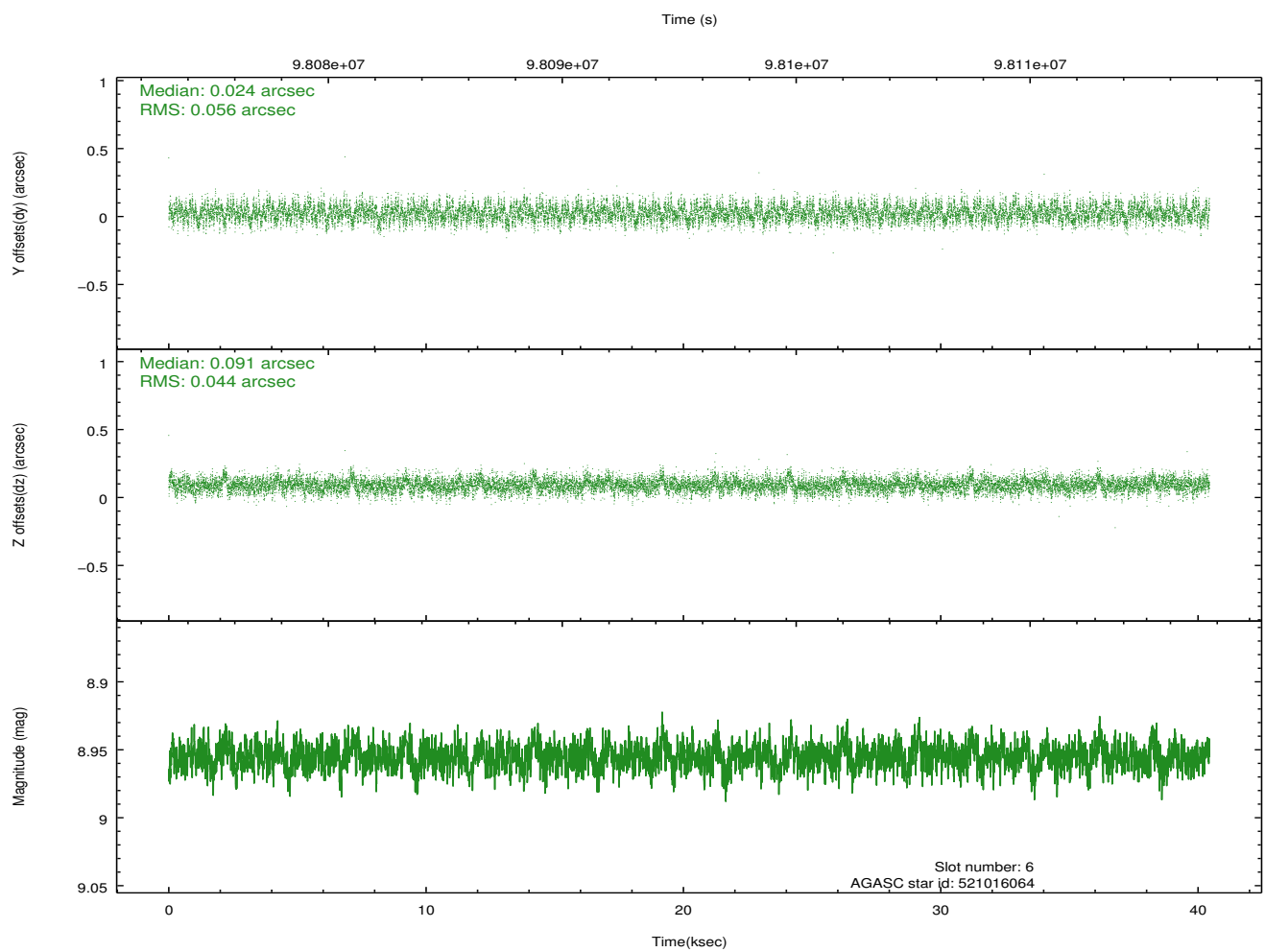
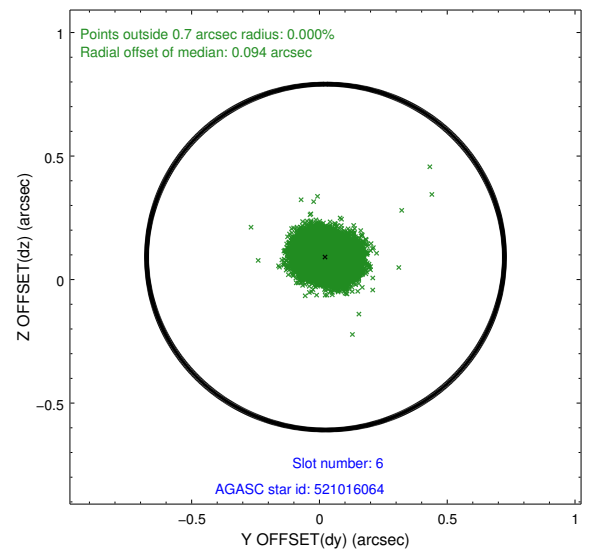
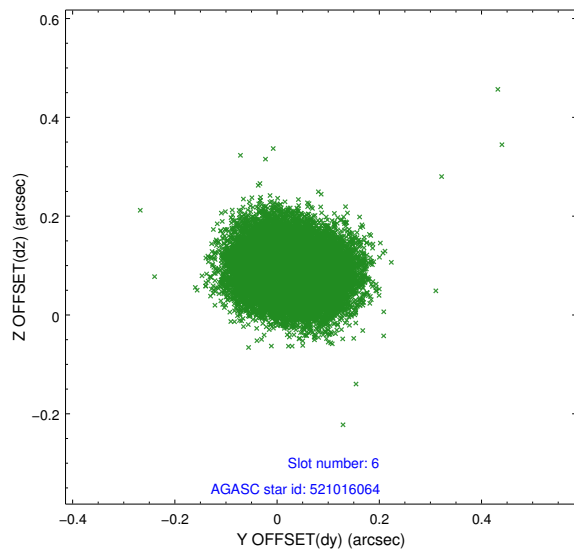
2.4.3 Slot 5



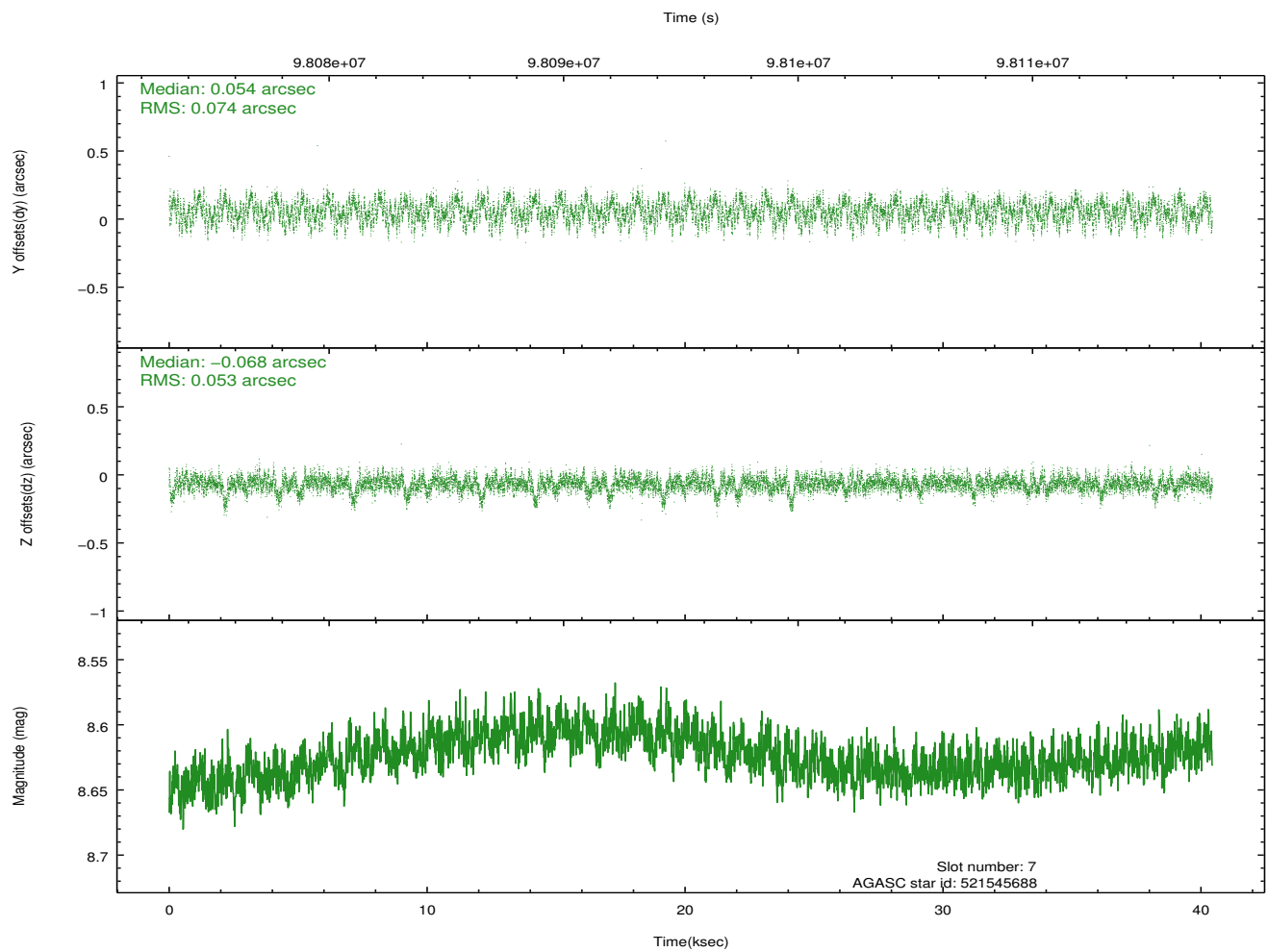
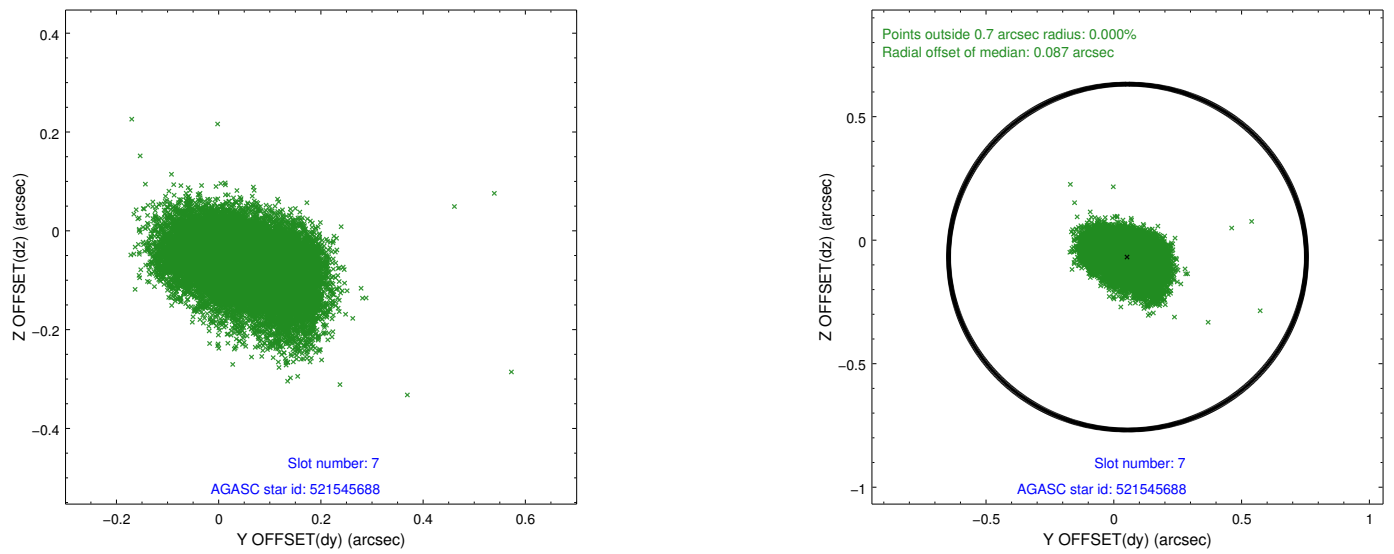
Time (s)



2.4.4 Slot 6

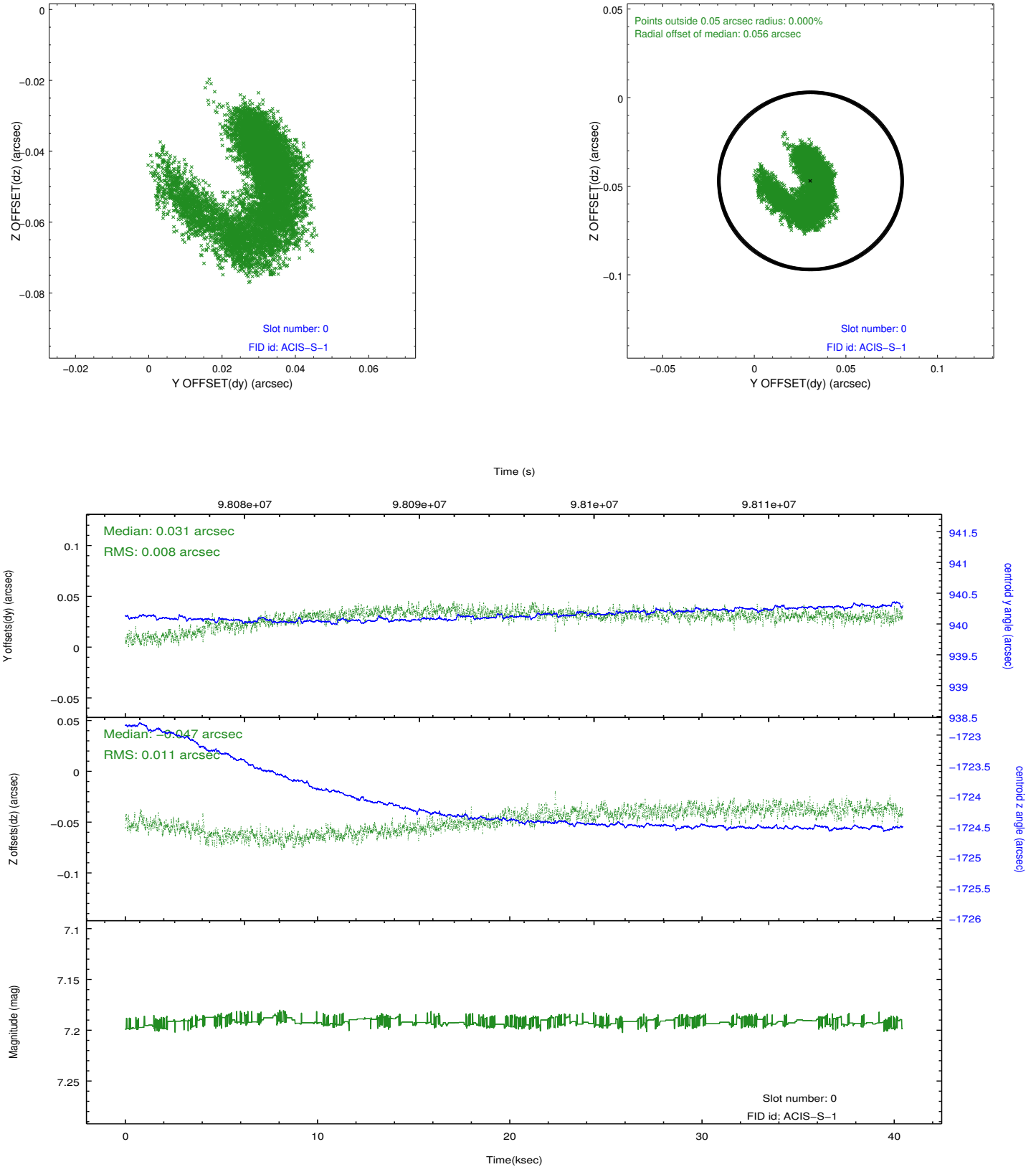


2.4.5 Slot 7

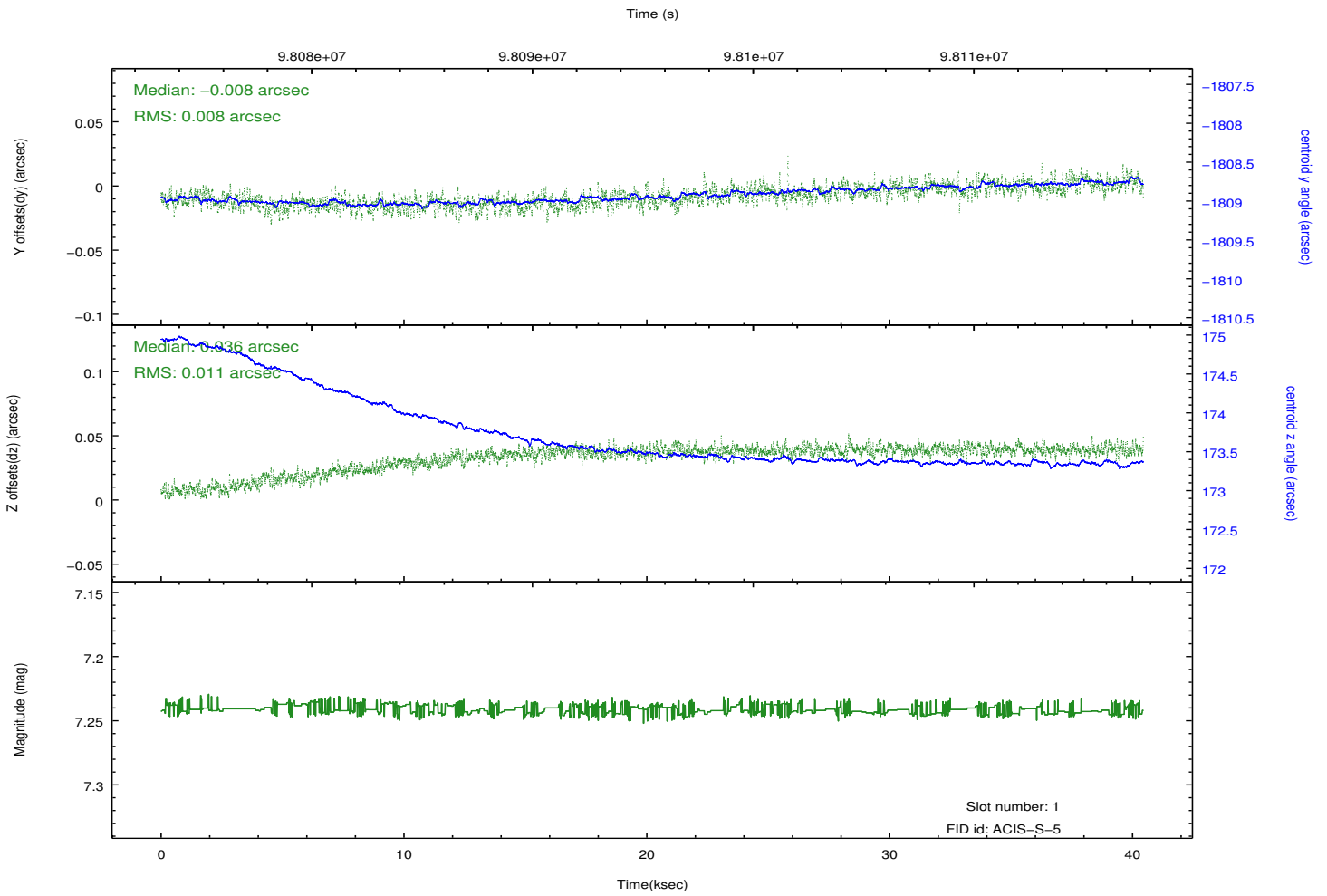
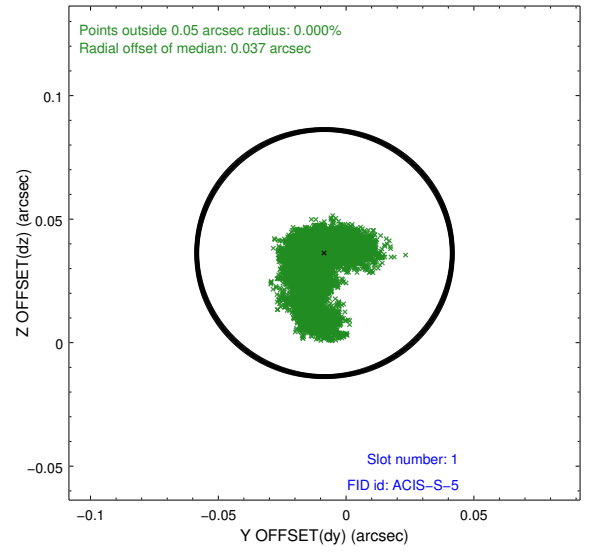
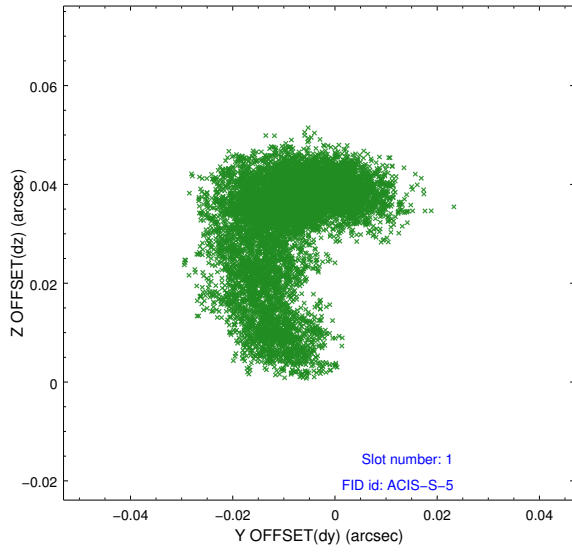


2.5 FID Slots

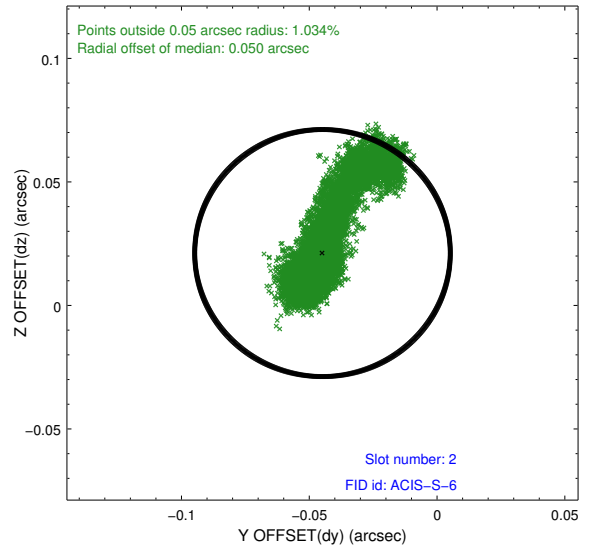
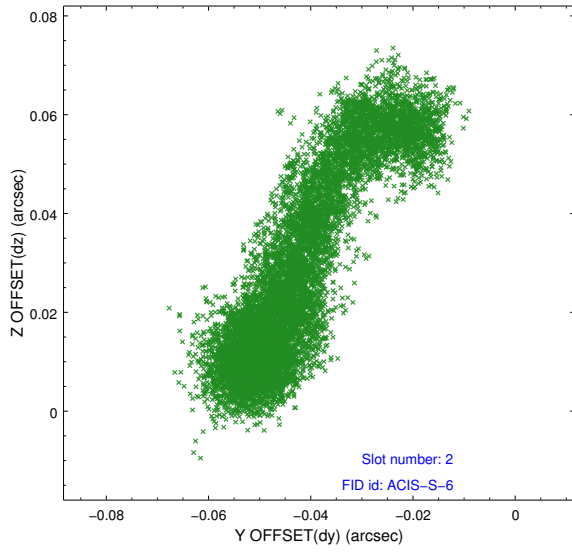
2.5.1 Slot 0



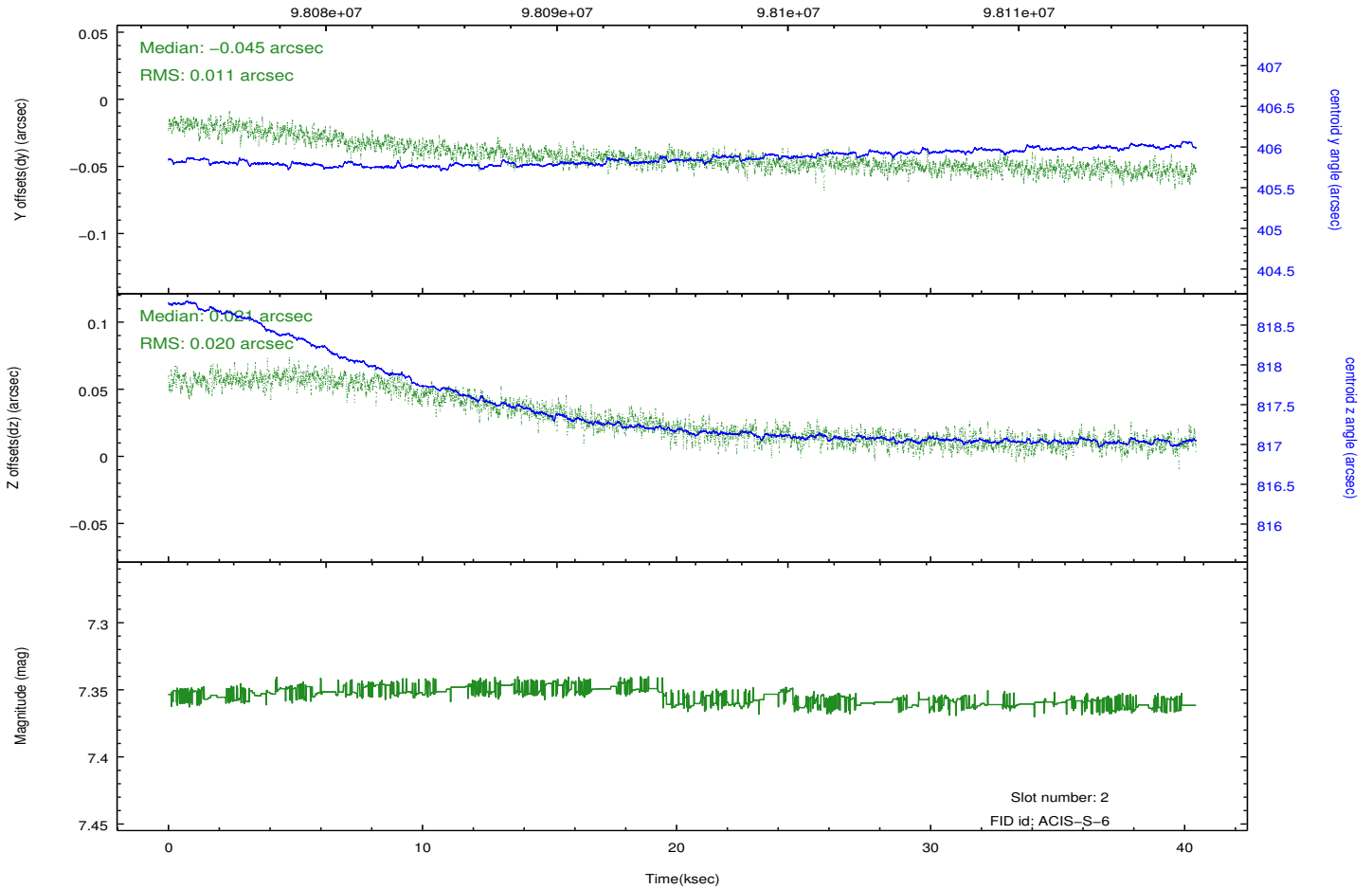
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)

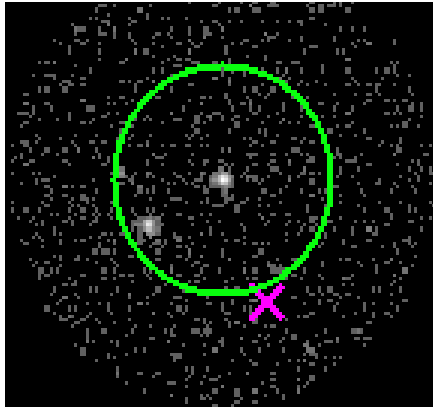


3 Gratings

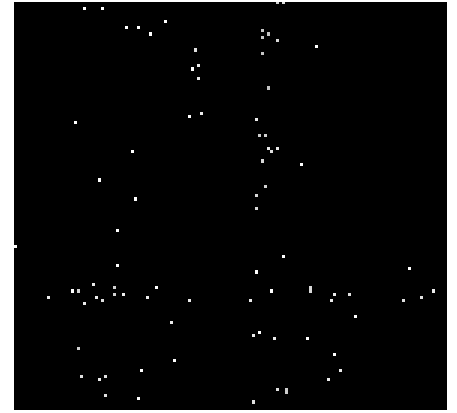
3.1 HEG Arm



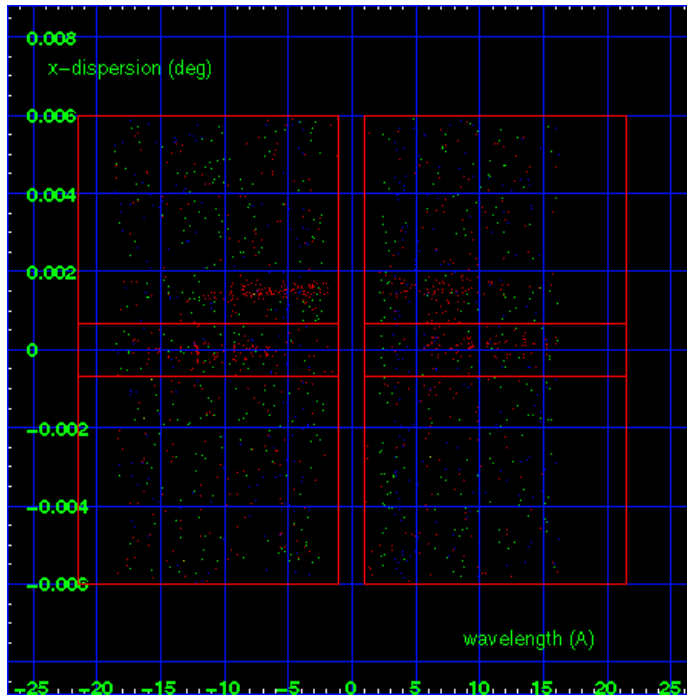
HEG Order Sort 123



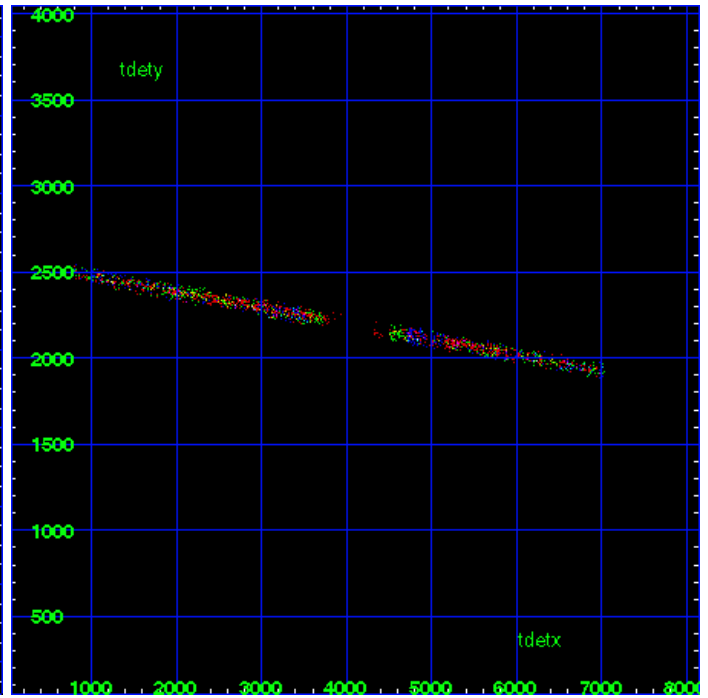
HEG Zero Order



HEG Order Sort ALL

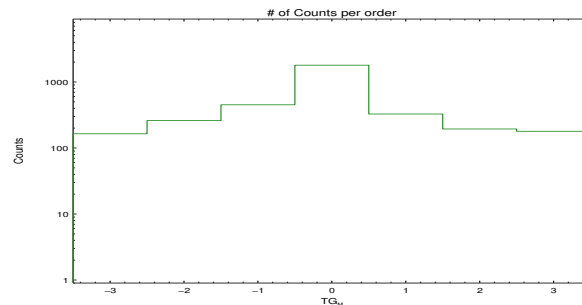


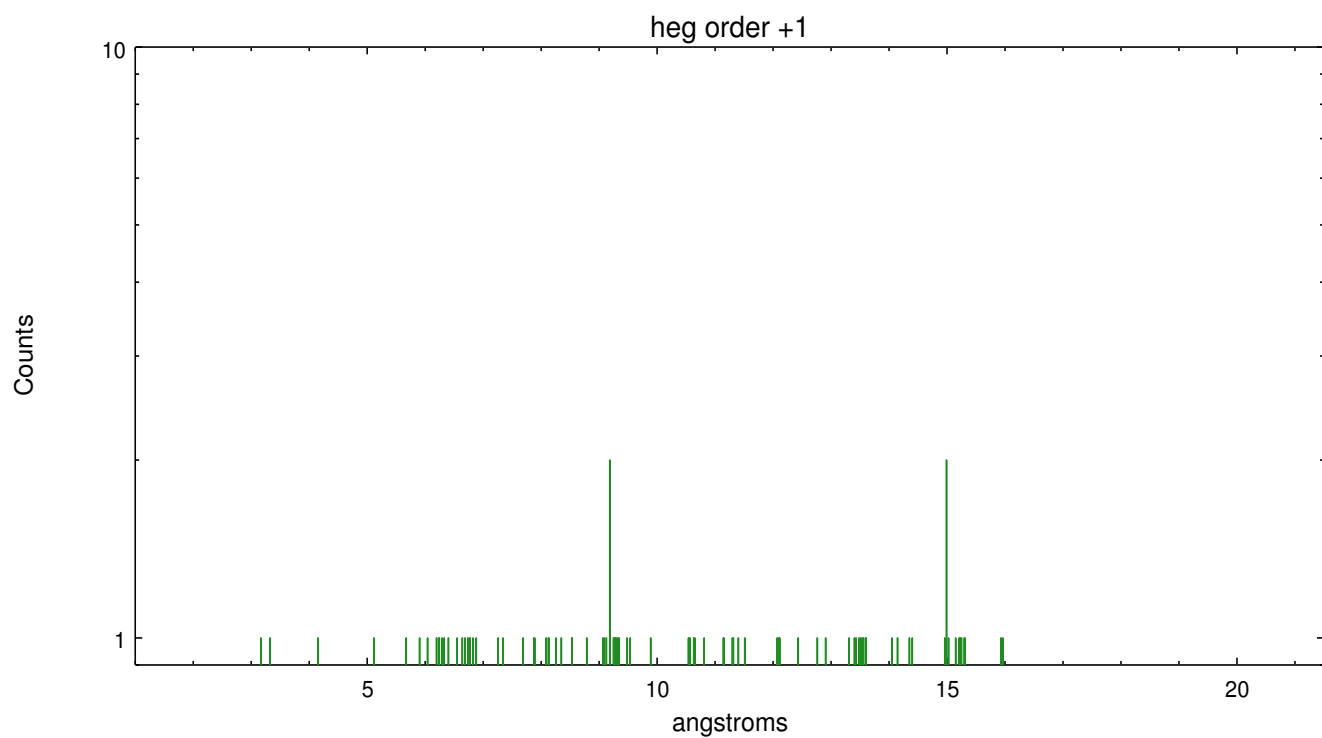
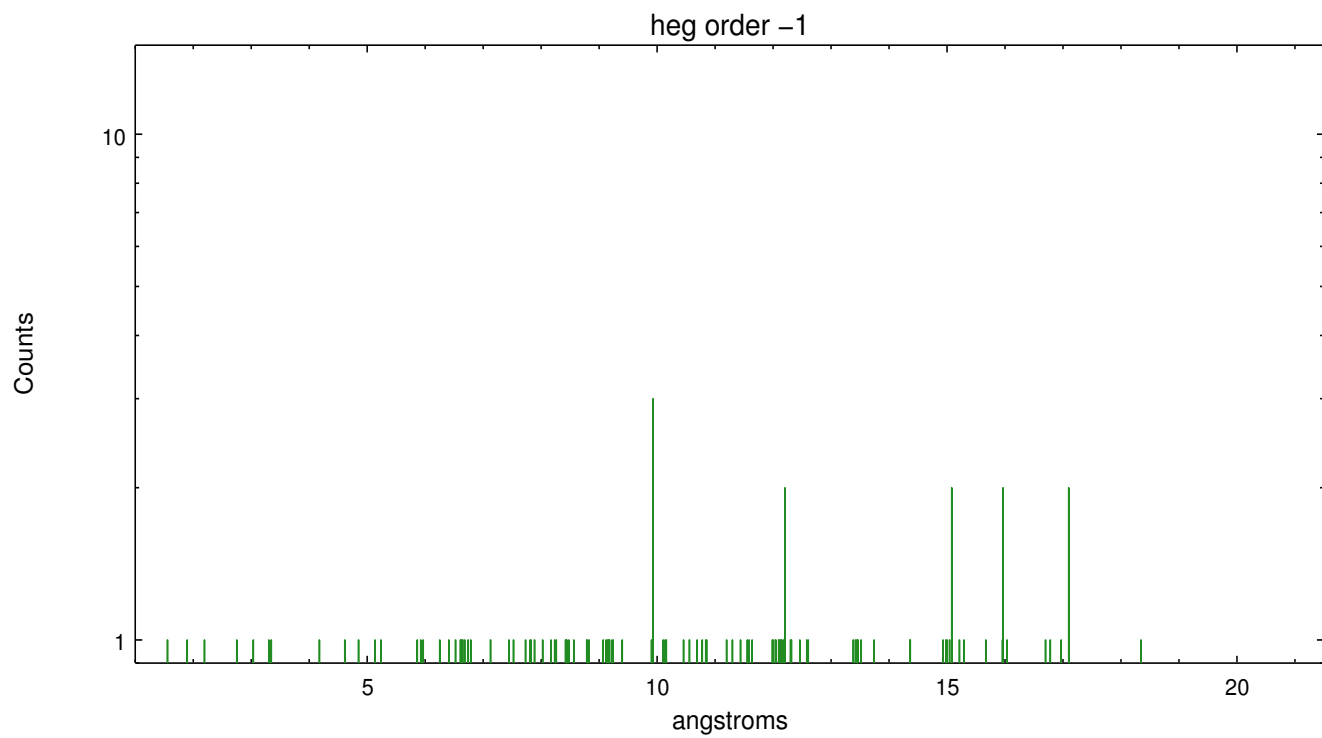
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	164	260	451	1795	327	194	179

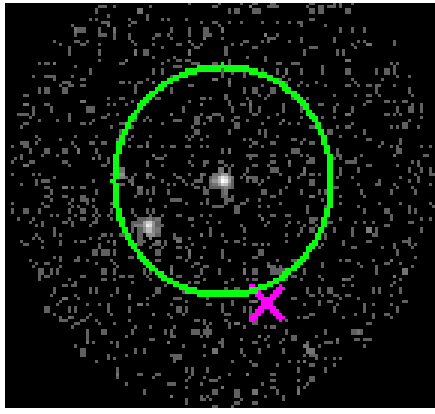




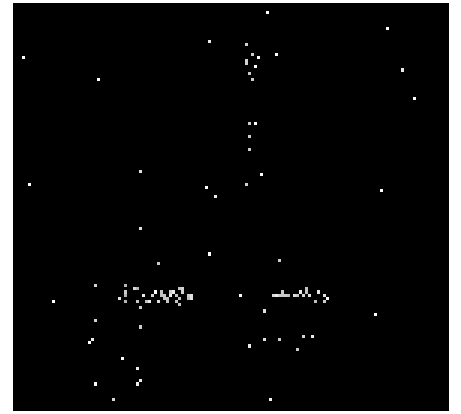
3.2 MEG Arm



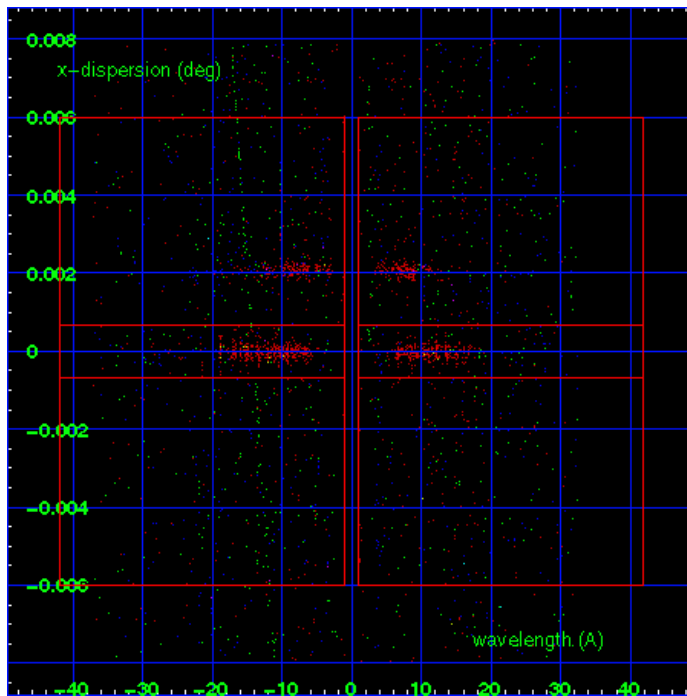
MEG Order Sort 123



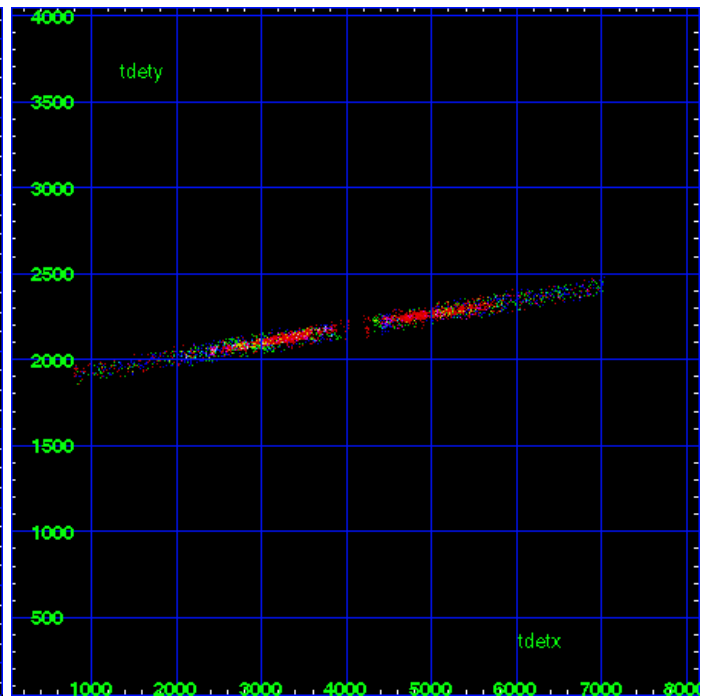
MEG Zero Order



MEG Order Sort ALL

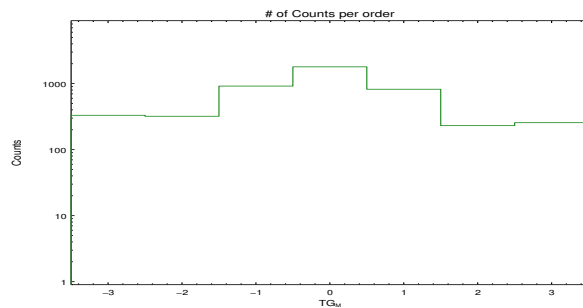


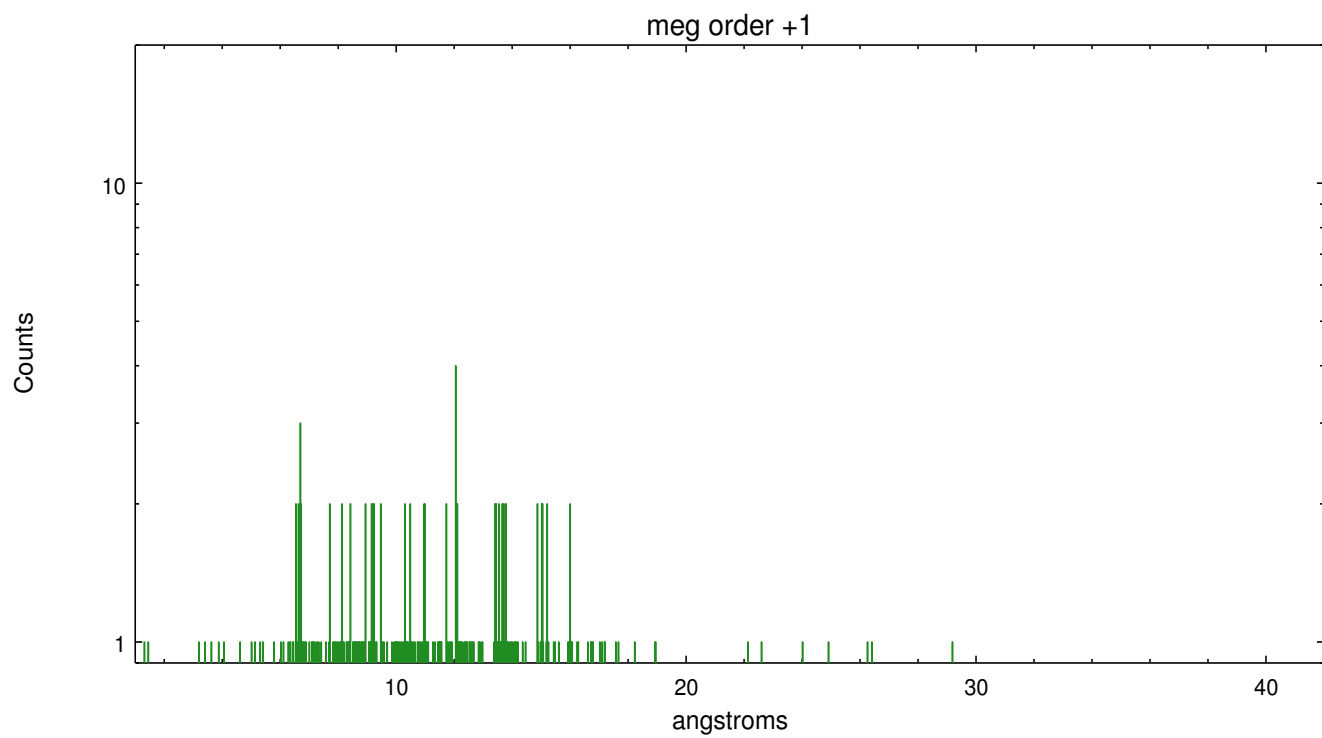
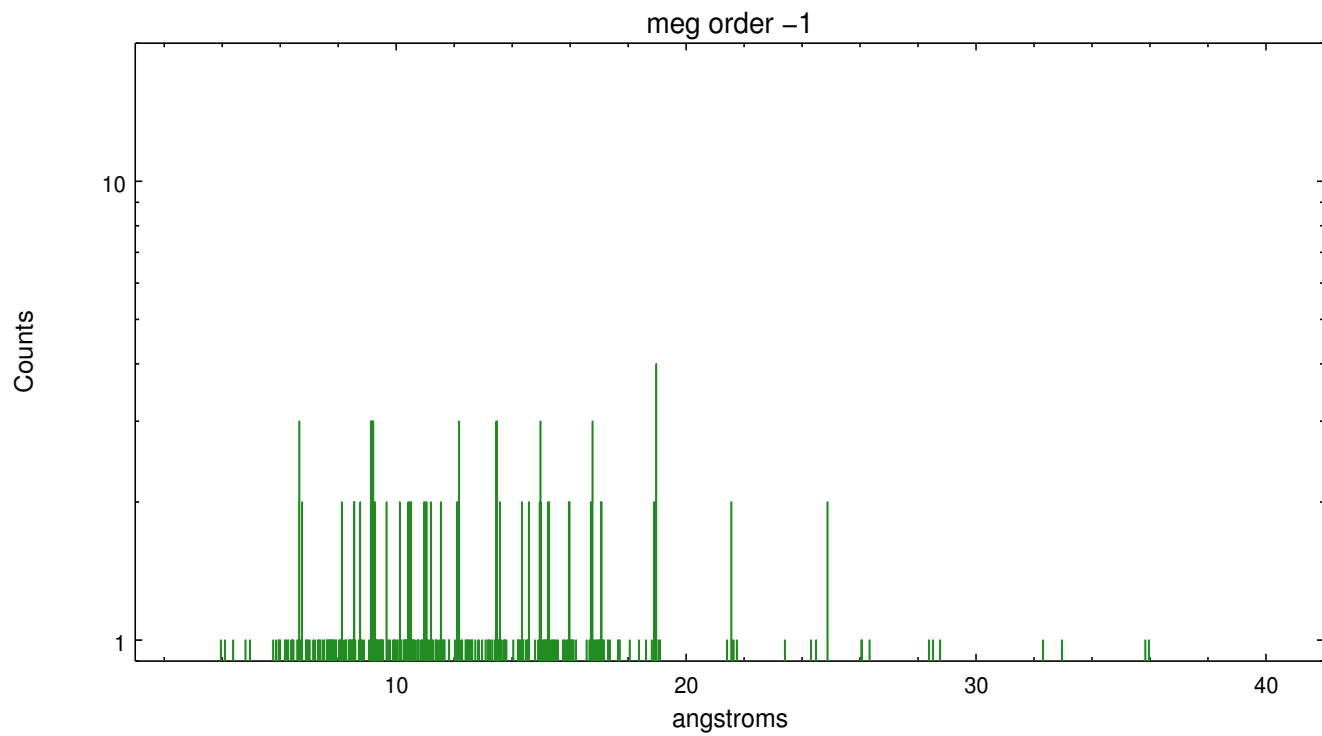
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	331	320	917	1795	821	231	256





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.907

A.2 Comments

Charge time for this ObsId remains at previous value of 39.907 ks, although the charge time would have been 39.907 ks with this processing.

===

Multiple sources (zeroth order and visible grating spectra). One source, BD+56 2617C, is less than 12 arcsec ESE from target and is within a few arcsec of the MEG and HEG grating arms. The MEG spectra of these two objects appear to be separable. The HEG arms will probably overlap, but the energy resolution of HEG may be sufficient to separate the sources. Phase constraint met.