

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 4412 - L2 Version 001
Chandra X-Ray Center

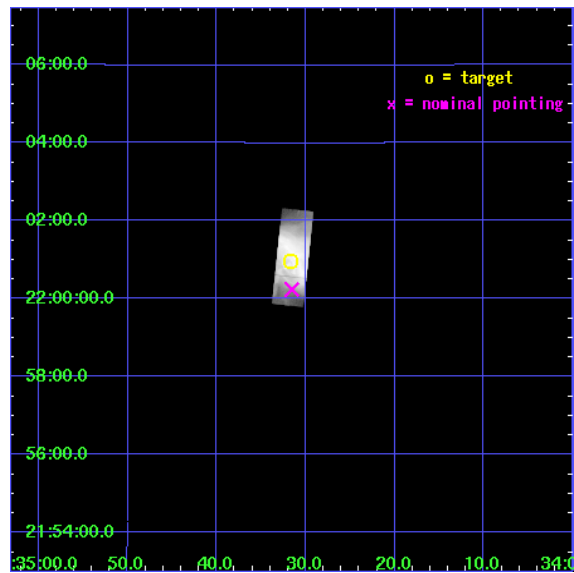
L2 Processing Date : Dec 8 2006

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1 Front

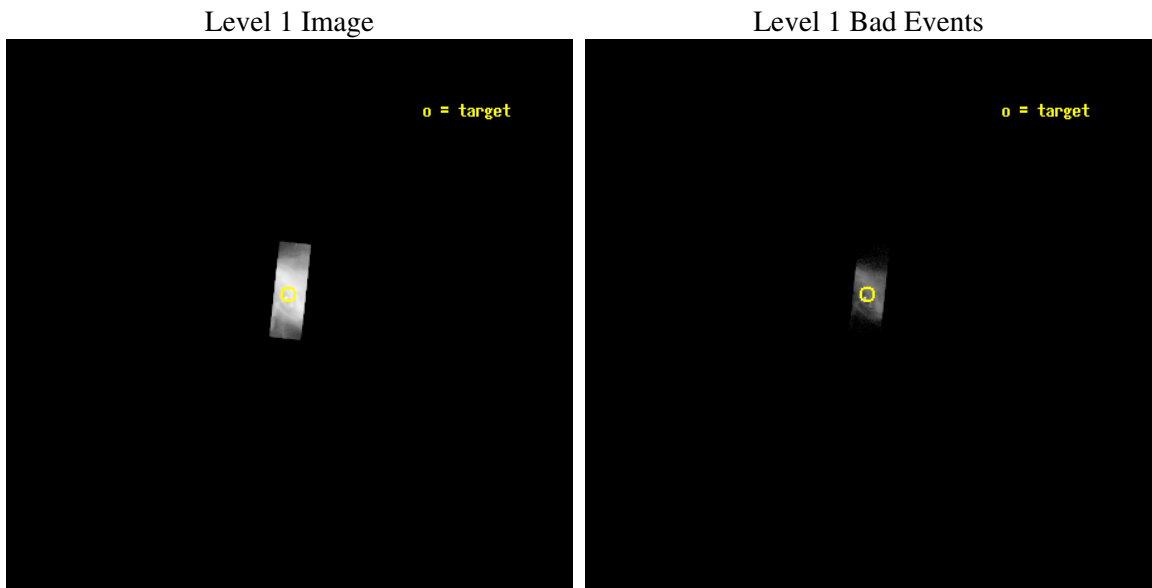
seq_num	100037
obs_id	4412
title	OBSERVATION OF SATURN AND TITAN PASSING IN FRONT OF THE CRAB NEBULA
observer	PROFESSOR HIROSHI TSUNEMI
object	TITAN
dtcycle	0
cycle	P
ra_targ	83.6319
dec_targ	22.01646
ra_nom	83.631515599982
dec_nom	22.004013869902
roll_nom	276.15762333294
revision	2
ontime	10853.100431263
livetime	9547.0623075857
ontime7	10853.100431263
l2events	2819372



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-18T20:11:58
revision	2

sched_exp_time	11000.000000
ontime	10854.85011369
ontime7	10854.85011369
l1events	2949199

2.1.3 Events

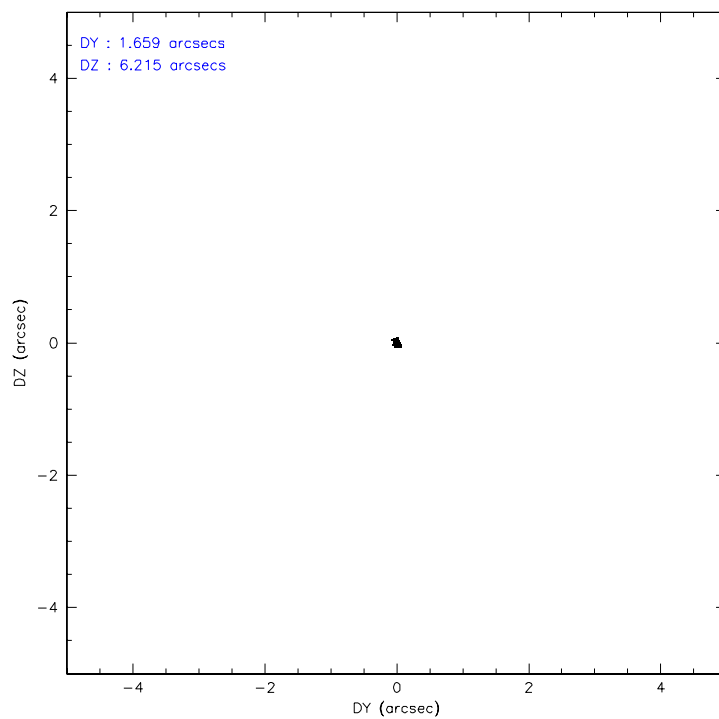
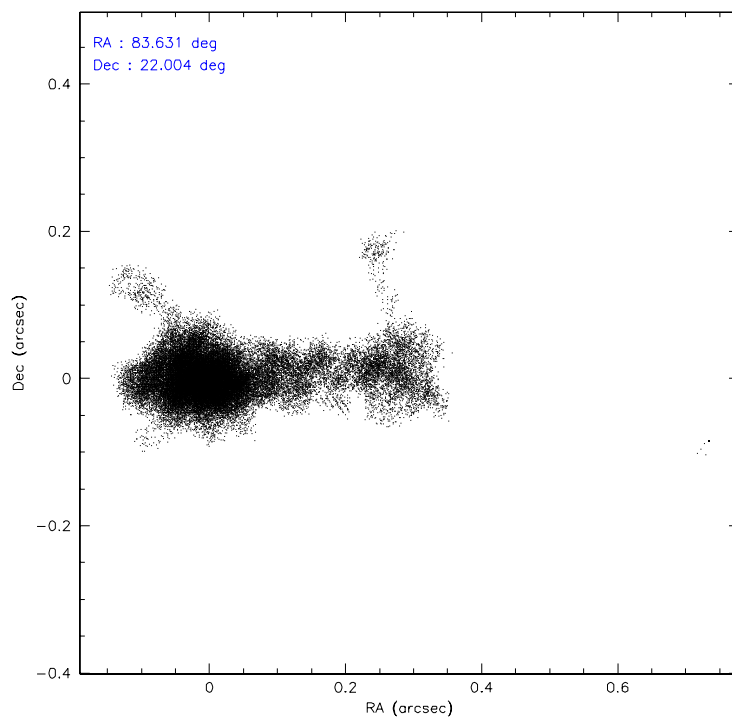
	ccd 7
level 1 events	2949199
rejected events	106696
rejected %	3%

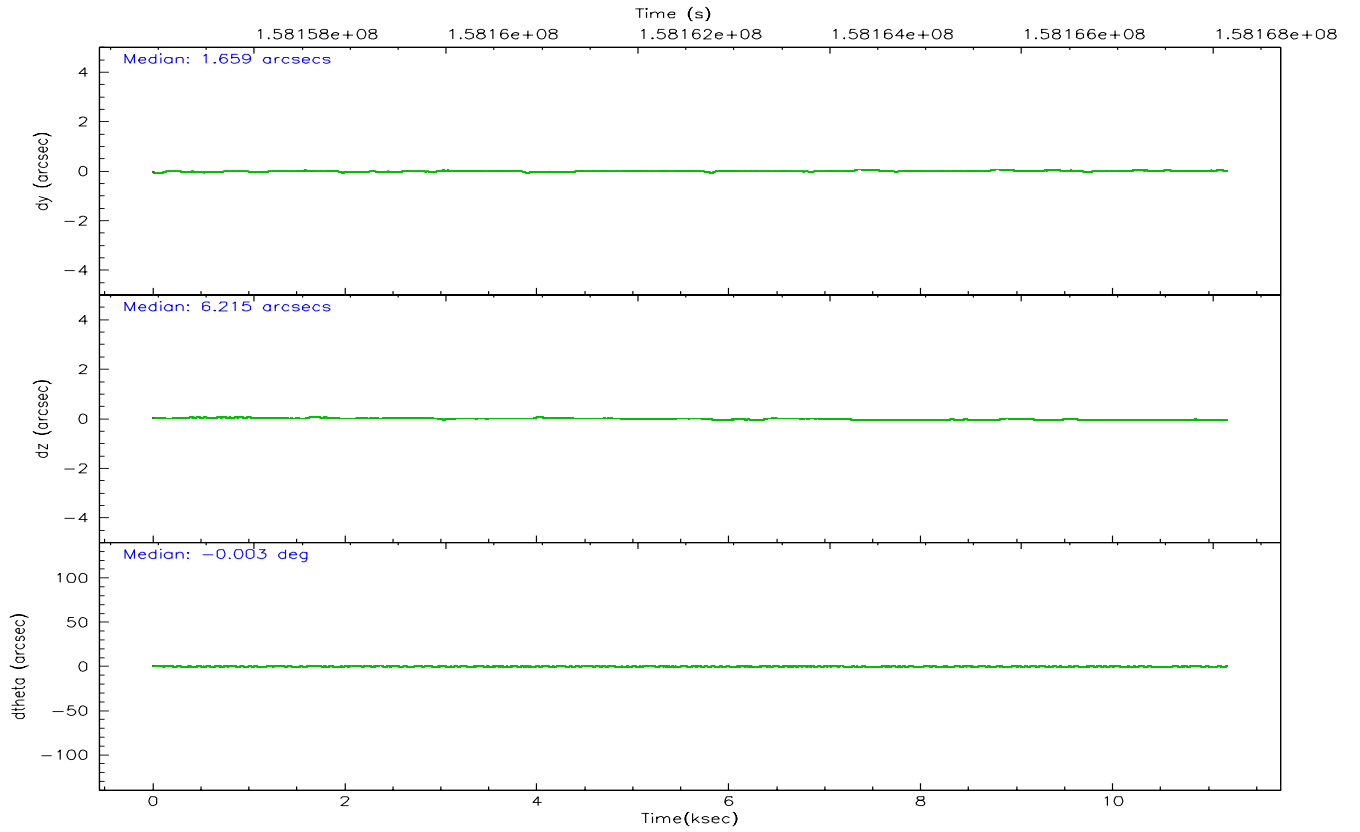
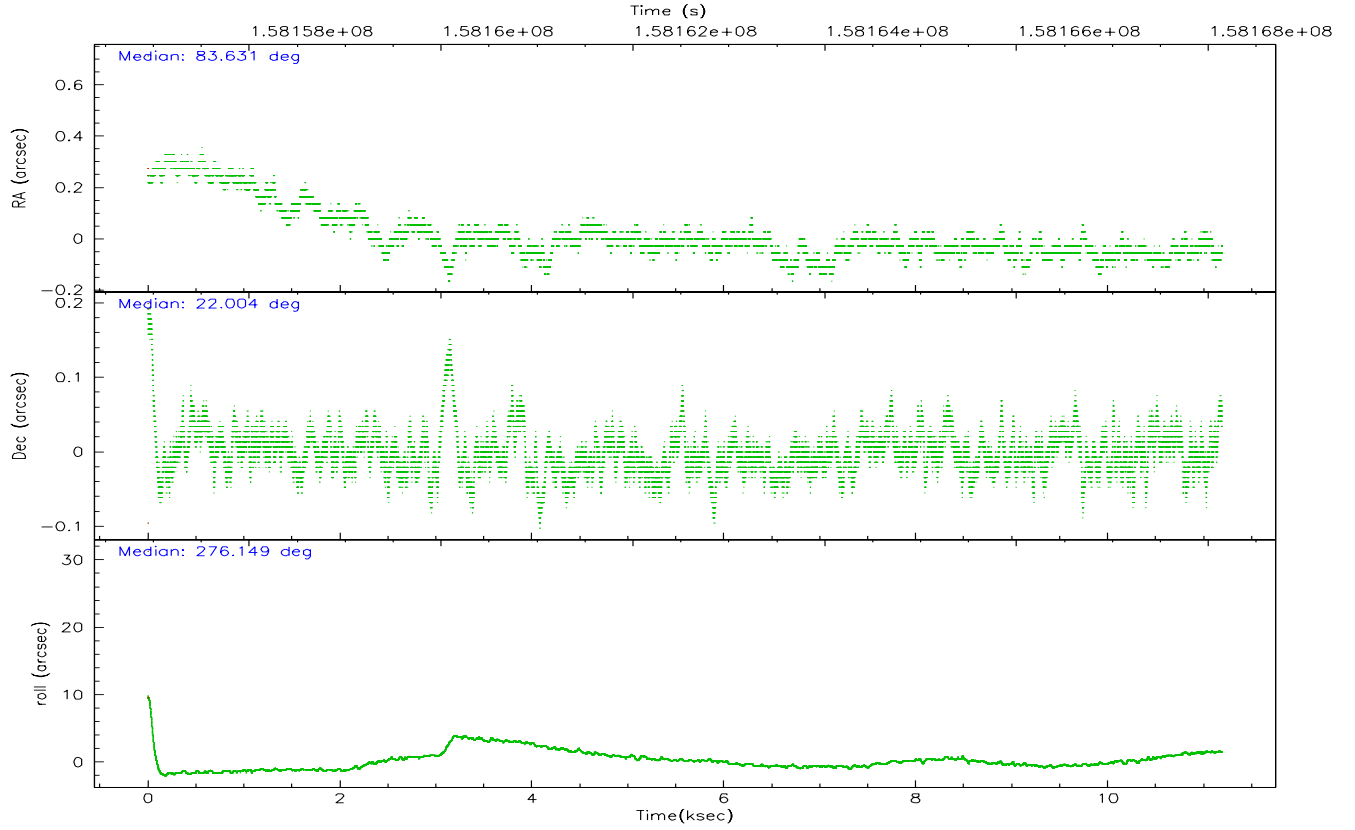
	ccd 7
grade 0 events	588627
	19%
grade 1 events	11131
	0%
grade 2 events	727124
	24%
grade 3 events	326560
	11%
grade 4 events	311758
	10%
grade 5 events	44695
	1%
grade 6 events	888872
	30%
grade 7 events	50432
	1%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	83.613854	83.63151559998198	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	22.025764	22.00401386990158	Subarray start row	127	127
Pointing Roll	276.007615	276.1576233329378	Subarray row count	101	101
Window start time	158144464.184000	158144464.184000	Alternating exposures requested	N	N
Window stop time	158185864.184000	158185864.184000	Primary exposure time	0.000000	0.3
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1344861297048			
SIM translation stage offset (mm)	-8	-7.998036453302973			
Observation start time	158157140.184000	158156763.7211			
Observation start date	2003-01-05T12:31:16	2003-01-05T12:26:03			
Observation end time	158168140.184000	158168273.95908			
Observation end date	2003-01-05T15:34:36	2003-01-05T15:37:53			
Read mode	TIMED	TIMED			

2.3 Aspect



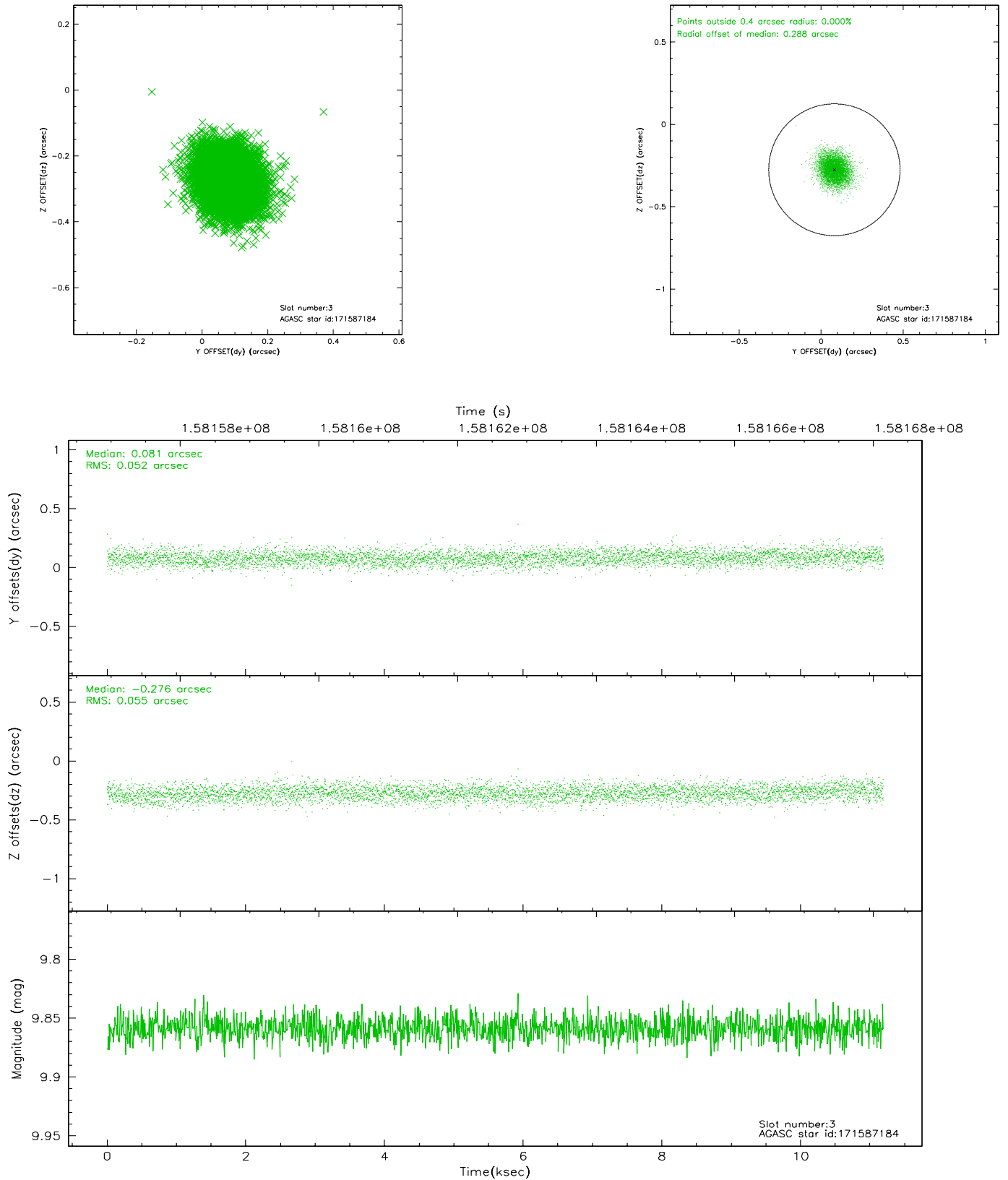


Slot Statistics

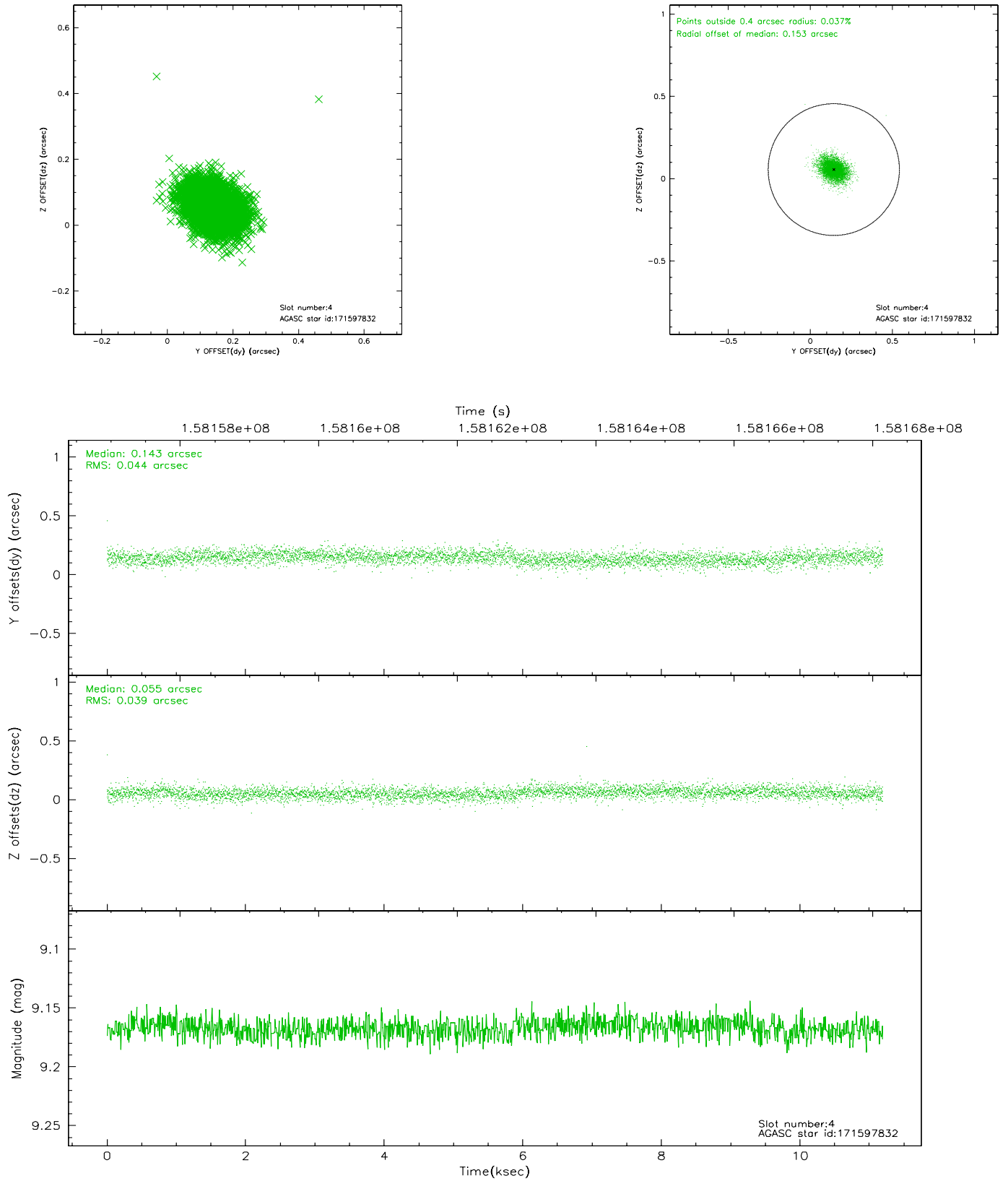
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2731	-0.052	-0.094	0.006	0.010	0.000000	0.000000	-753.76	-1892.21
1	FID	ACIS-S-4	7.18	2731	0.055	0.050	0.005	0.008	0.000000	0.000000	2159.44	15.85
2	FID	ACIS-S-5	7.23	2731	-0.033	0.051	0.006	0.010	0.000000	0.000000	-1805.97	10.08
3	GUIDE	171587184	9.86	5455	0.081	-0.276	0.080	0.130	83.729362	22.466719	-1538.40	547.93
4	GUIDE	171597832	9.17	5461	0.143	0.055	0.061	0.104	83.183230	21.366702	2206.91	-1683.37
5	GUIDE	171600224	9.64	5456	-0.108	-0.103	0.074	0.123	82.941815	21.636094	1155.81	-2383.00
6	GUIDE	171721904	9.19	5455	0.204	0.286	0.062	0.099	84.272676	22.116922	-100.79	2219.95
7	GUIDE	243941560	8.32	5460	-0.318	0.039	0.036	0.059	83.733264	22.568598	-1902.21	599.57

2.4 Star Slots

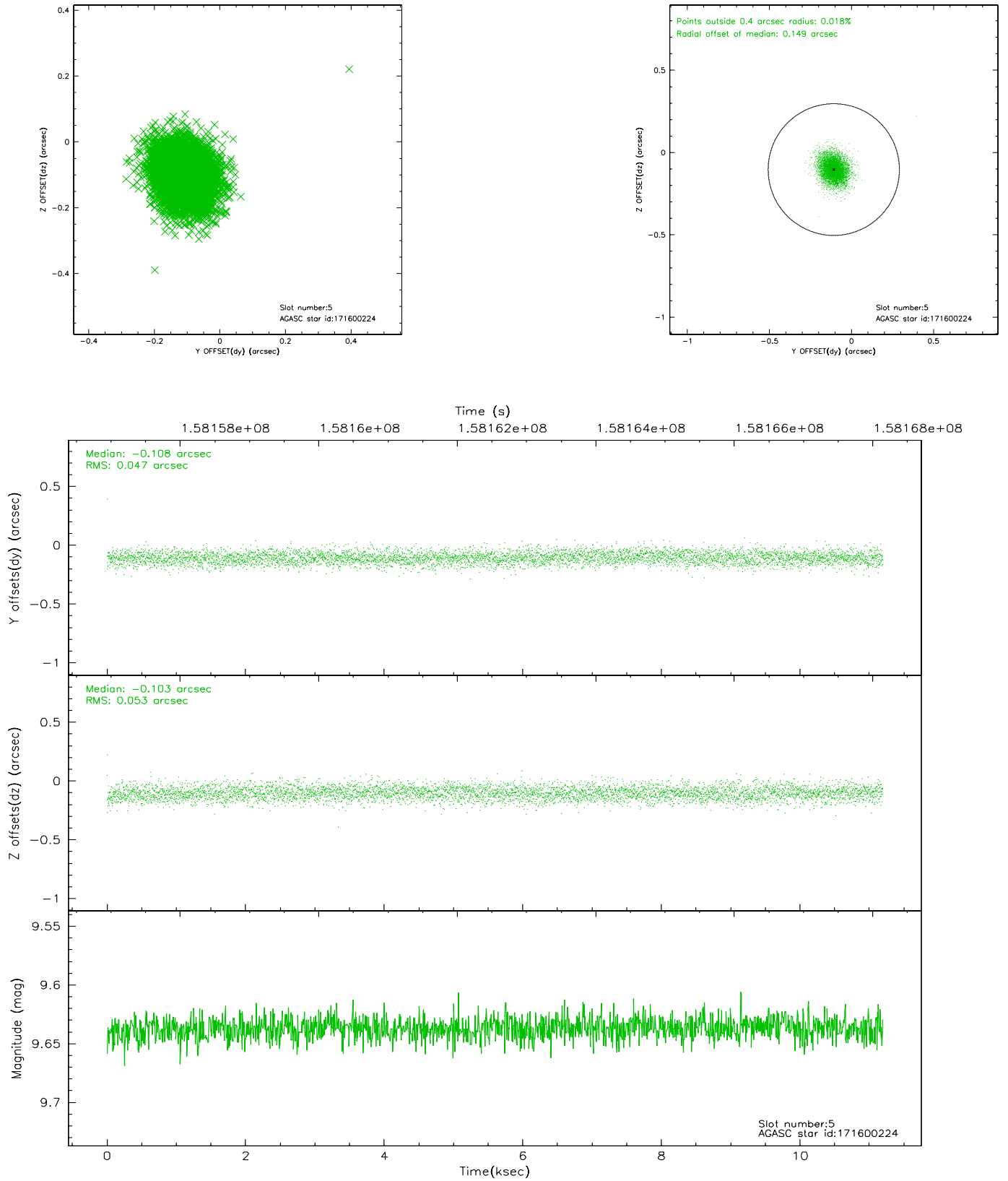
2.4.1 Slot 3



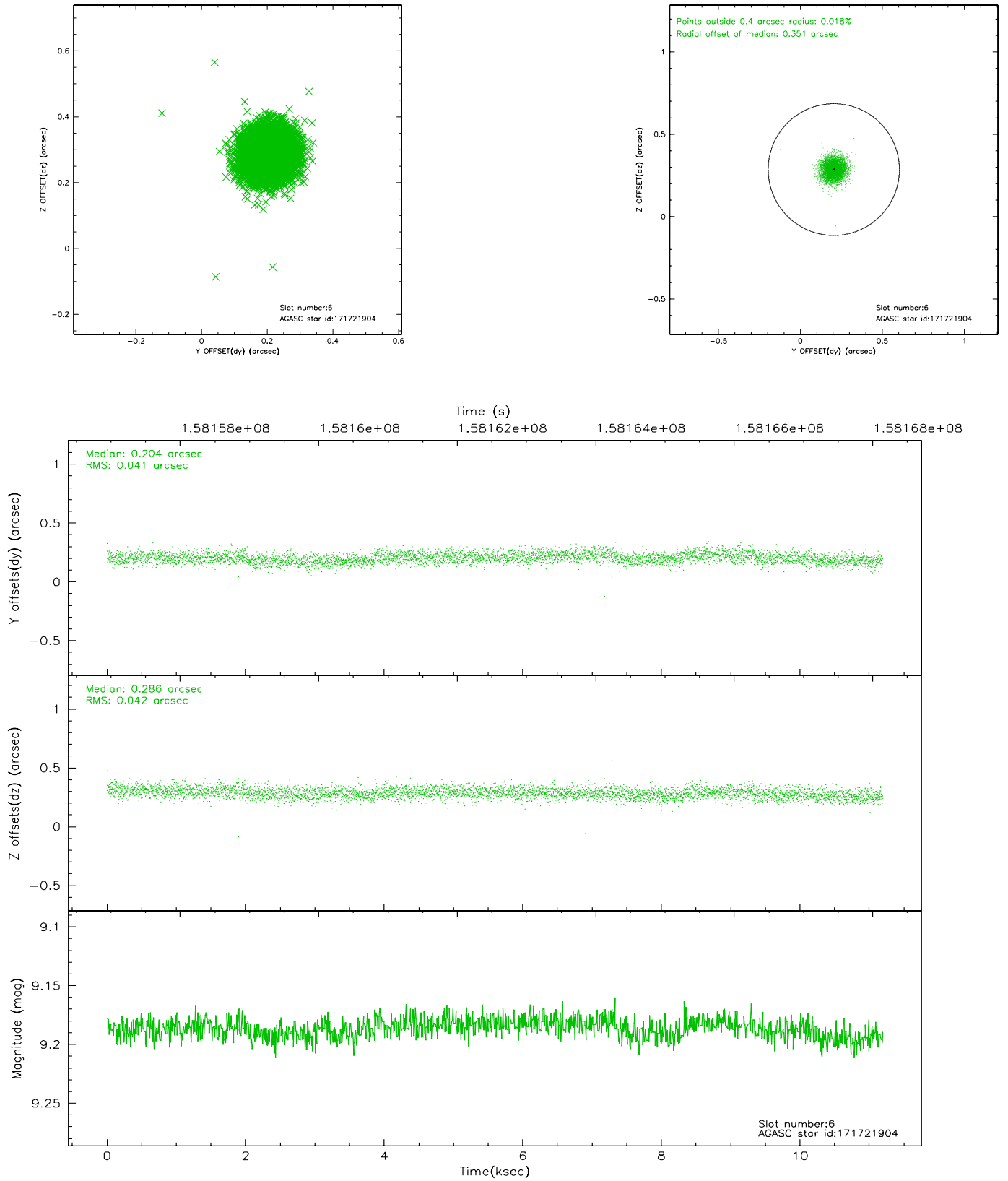
2.4.2 Slot 4



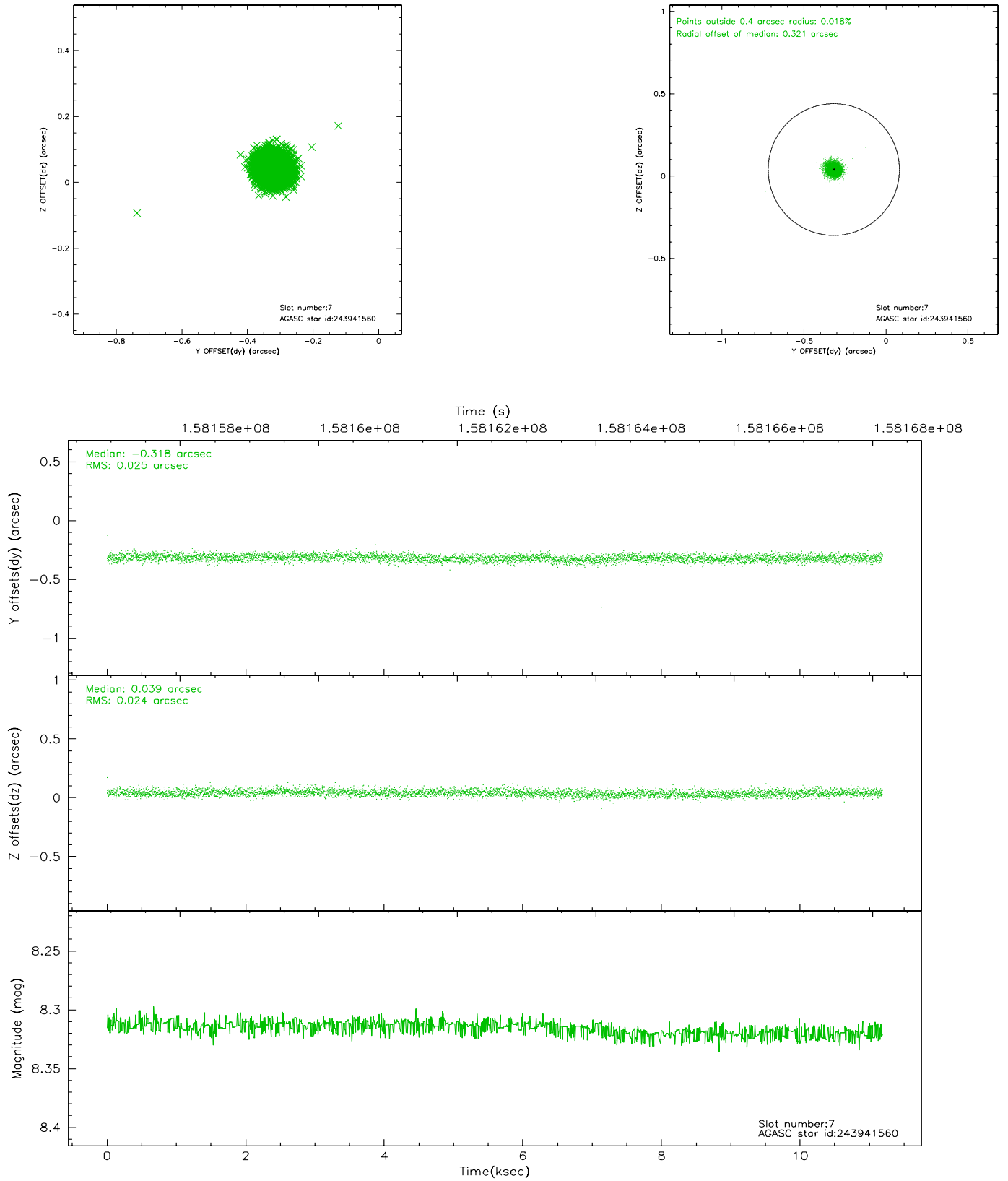
2.4.3 Slot 5



2.4.4 Slot 6

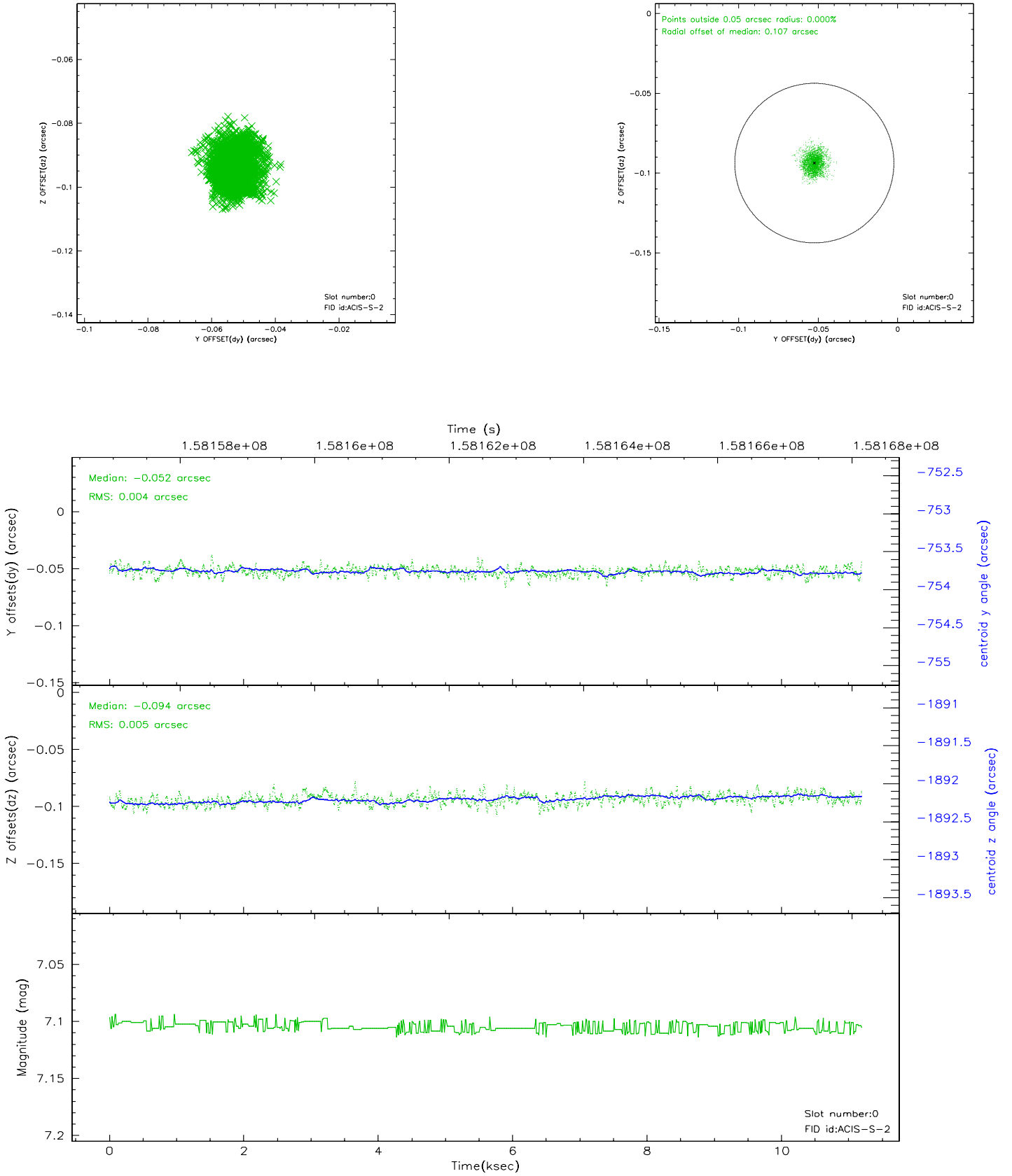


2.4.5 Slot 7

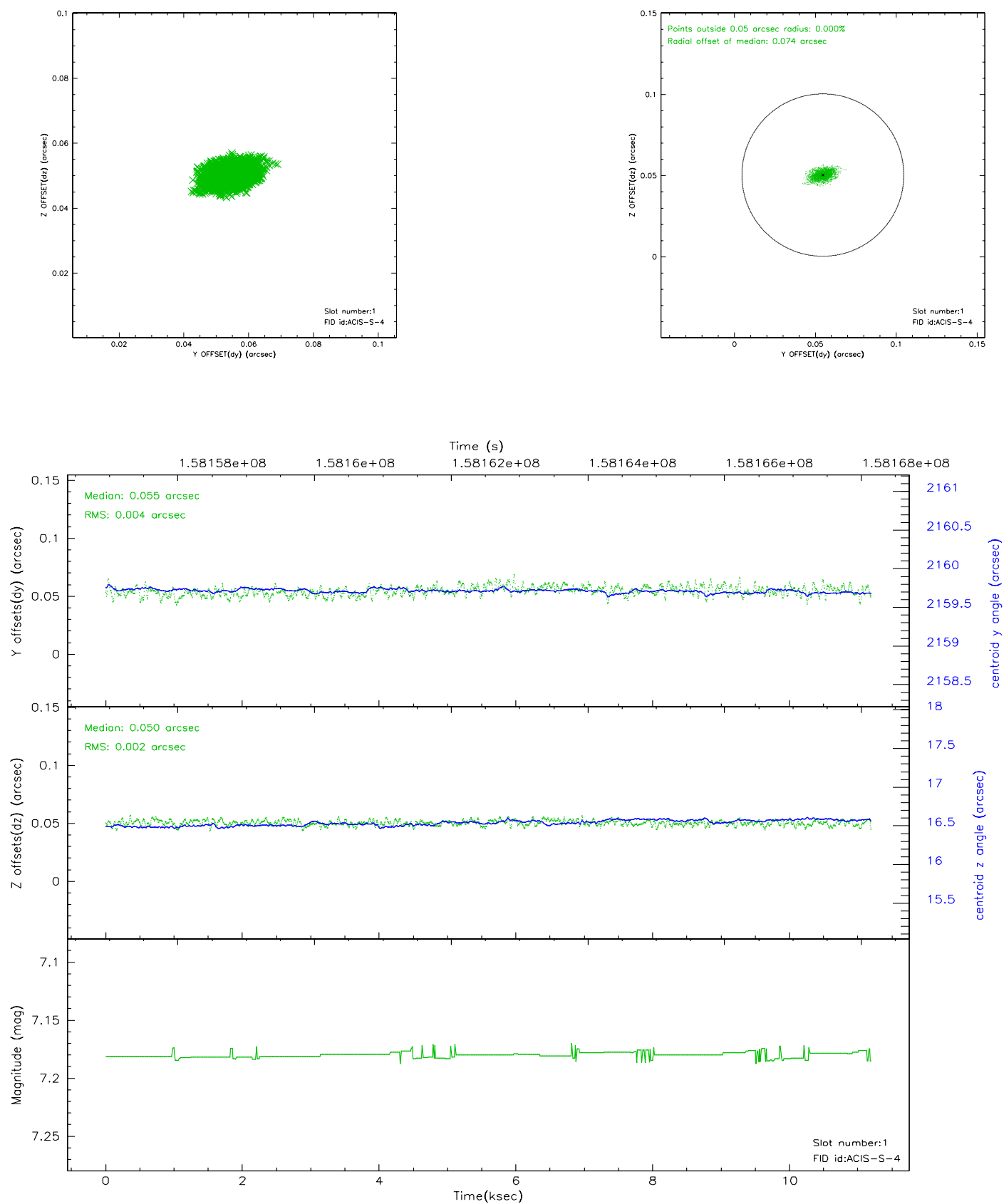


2.5 FID Slots

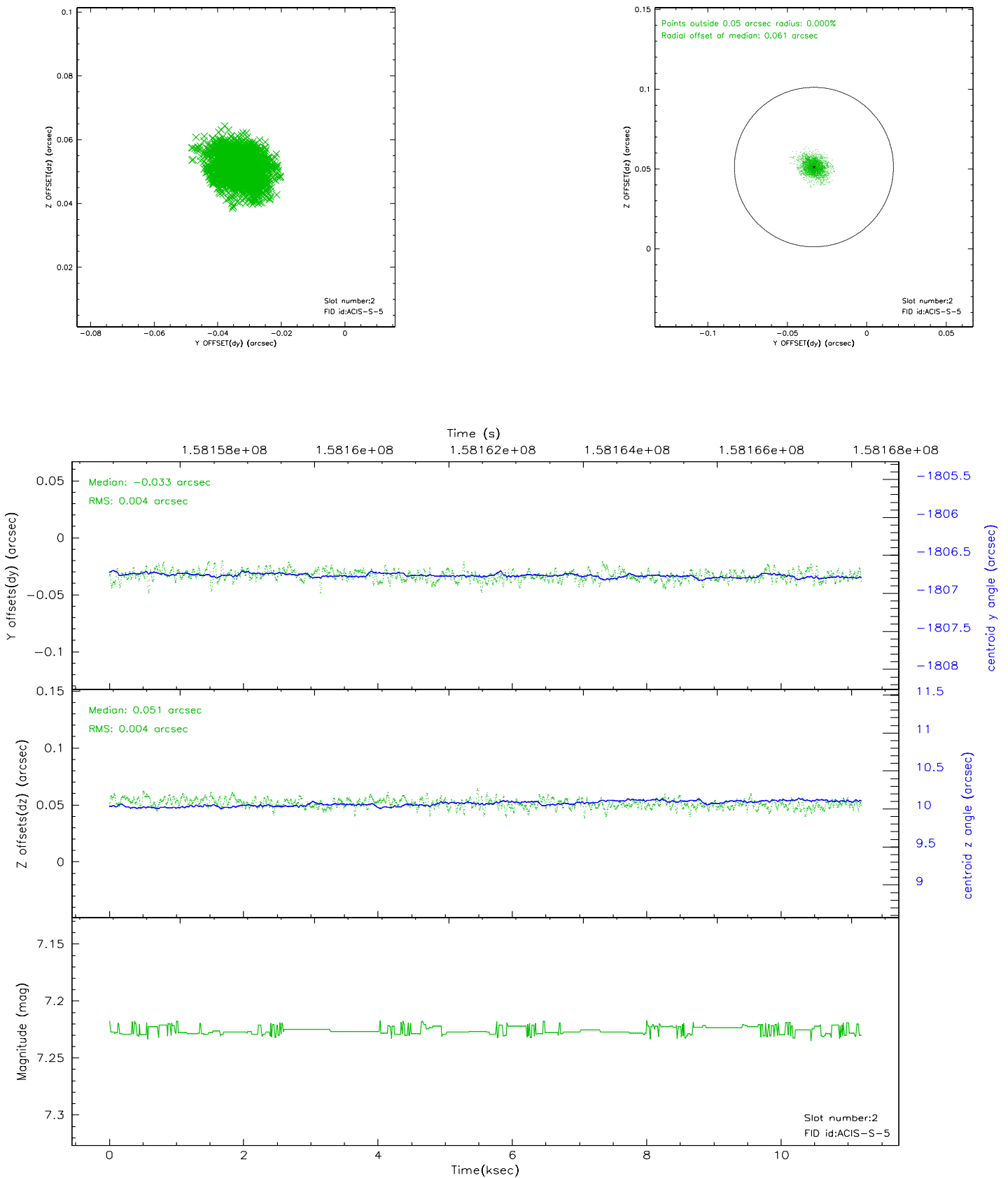
2.5.1 Slot 0



2.5.2 Slot 1

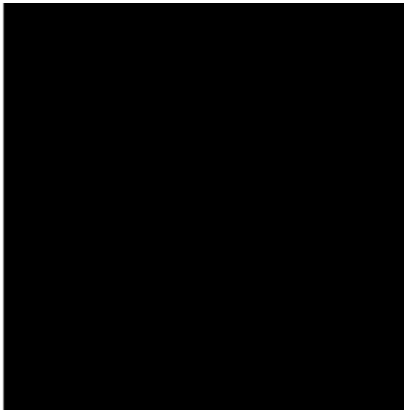


2.5.3 Slot 2

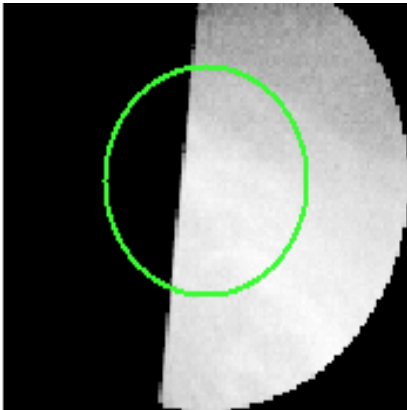


3 Gratings

3.1 HEG Arm



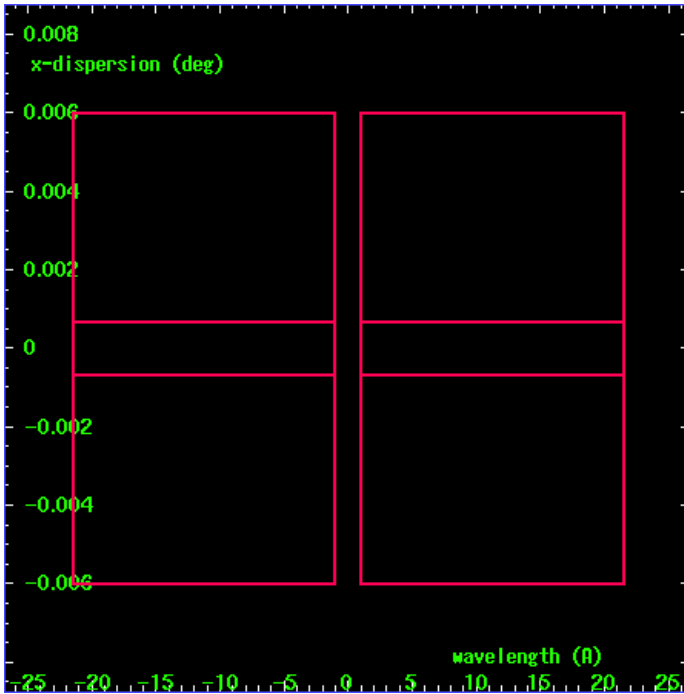
HEG Order Sort 123



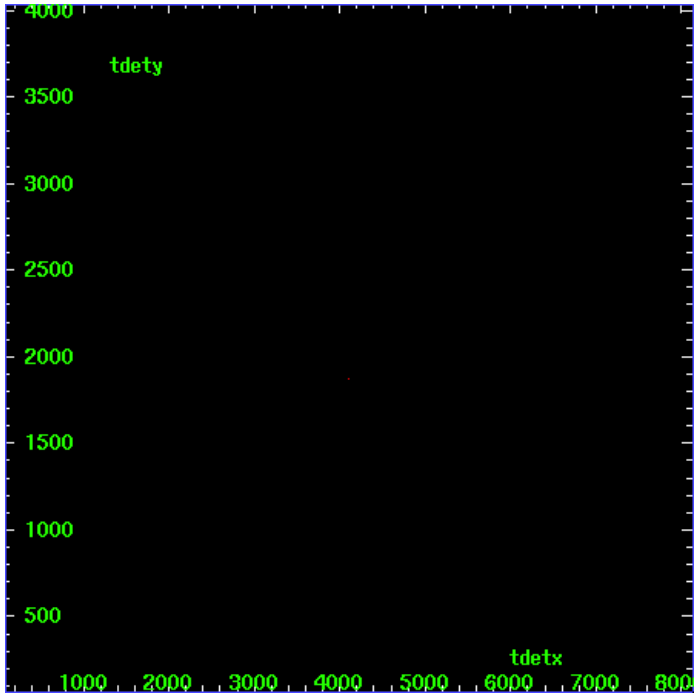
HEG Zero Order



HEG Order Sort ALL

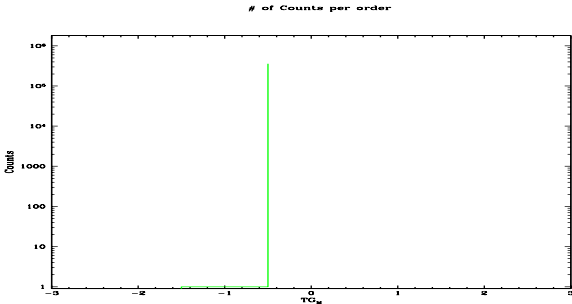


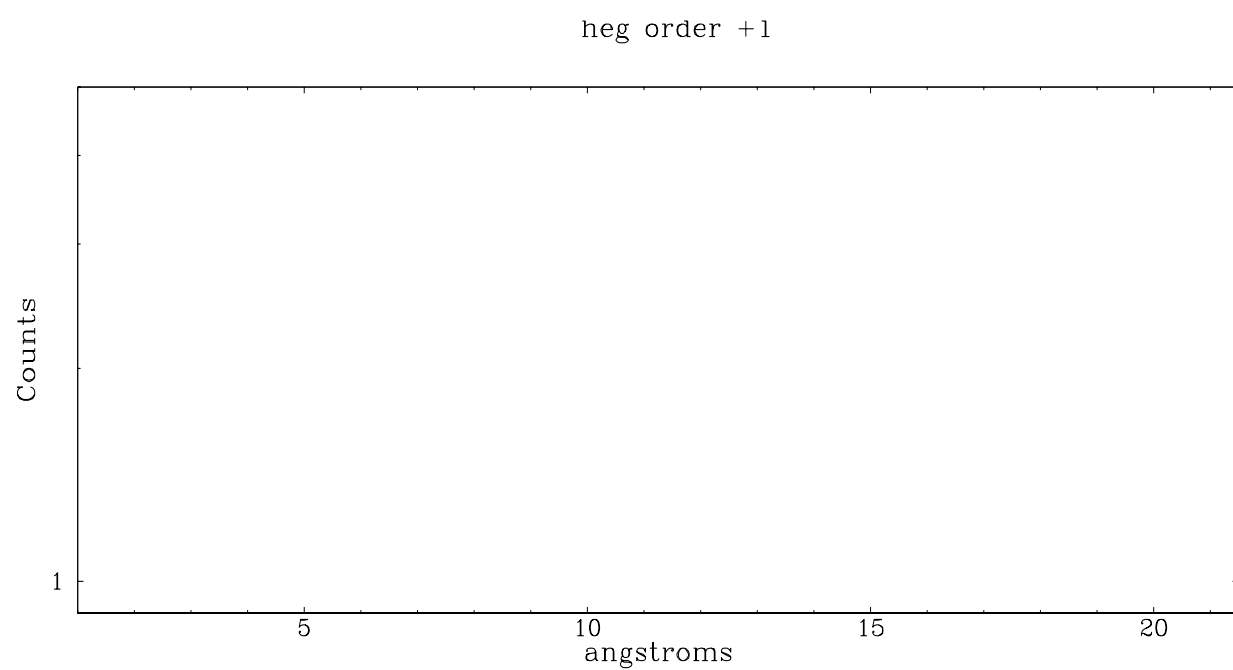
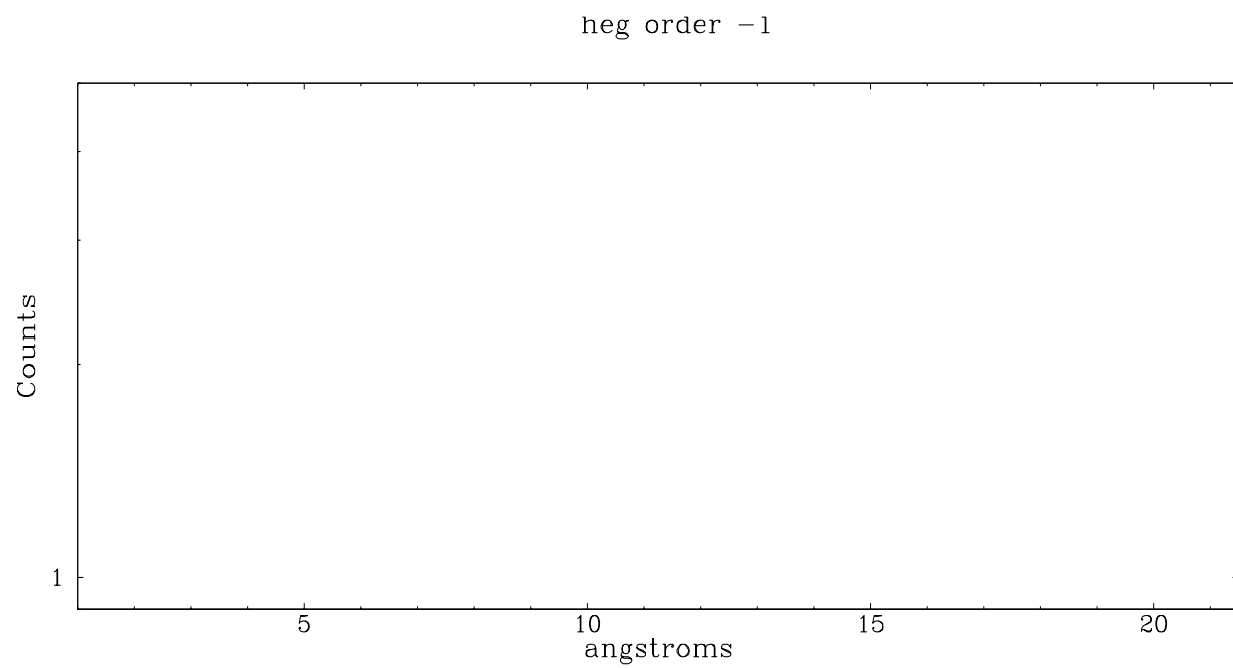
Spot Image HEG



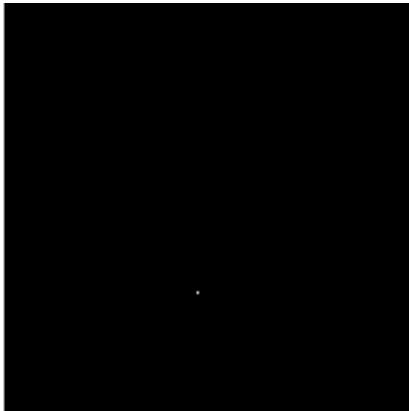
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	1	359268	0	0	0

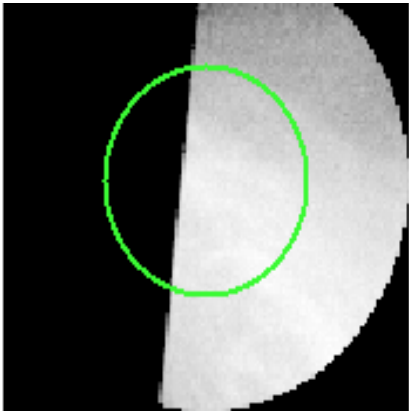




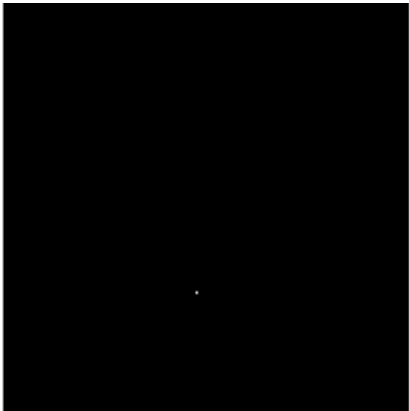
3.2 MEG Arm



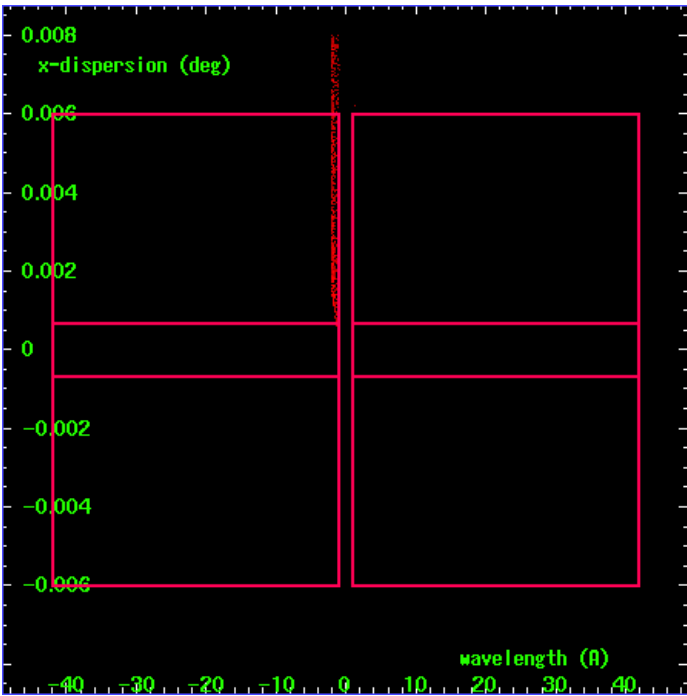
MEG Order Sort 123



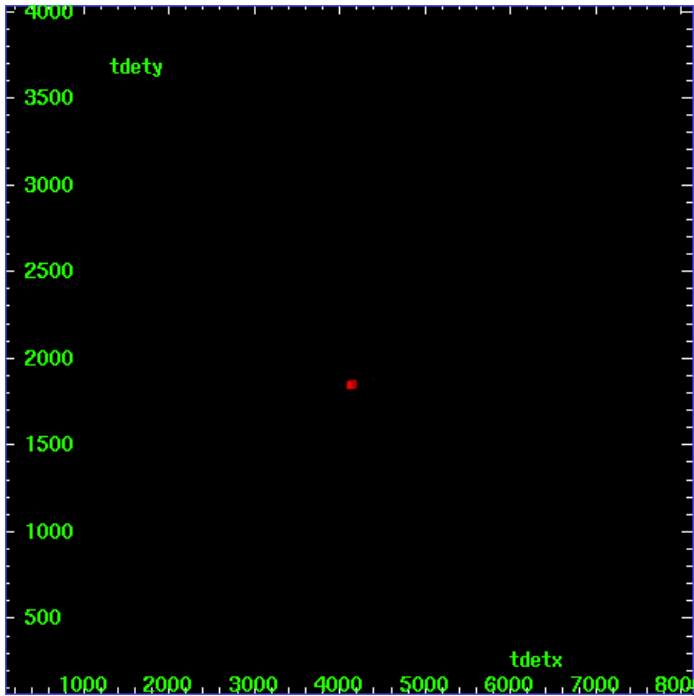
MEG Zero Order



MEG Order Sort ALL

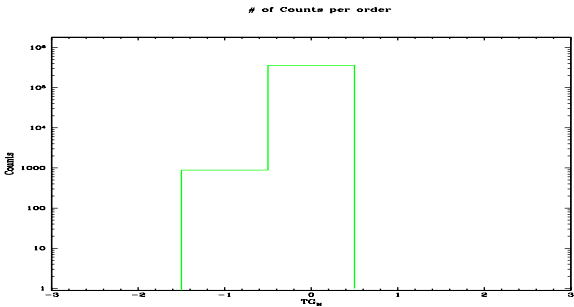


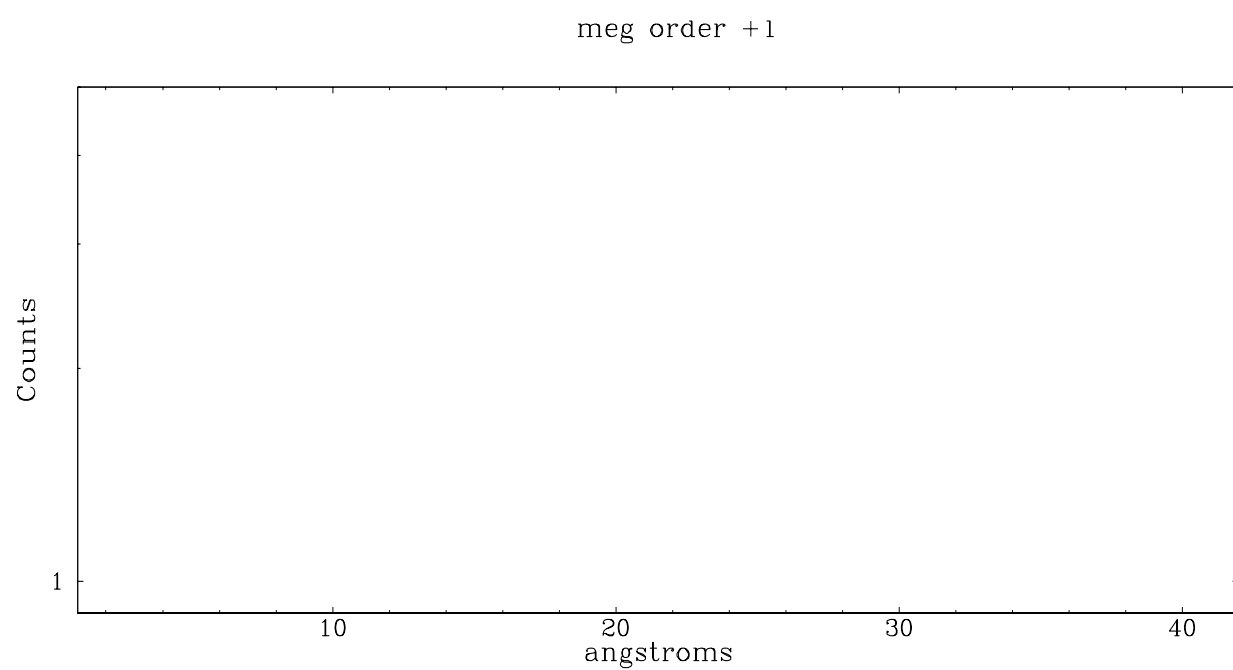
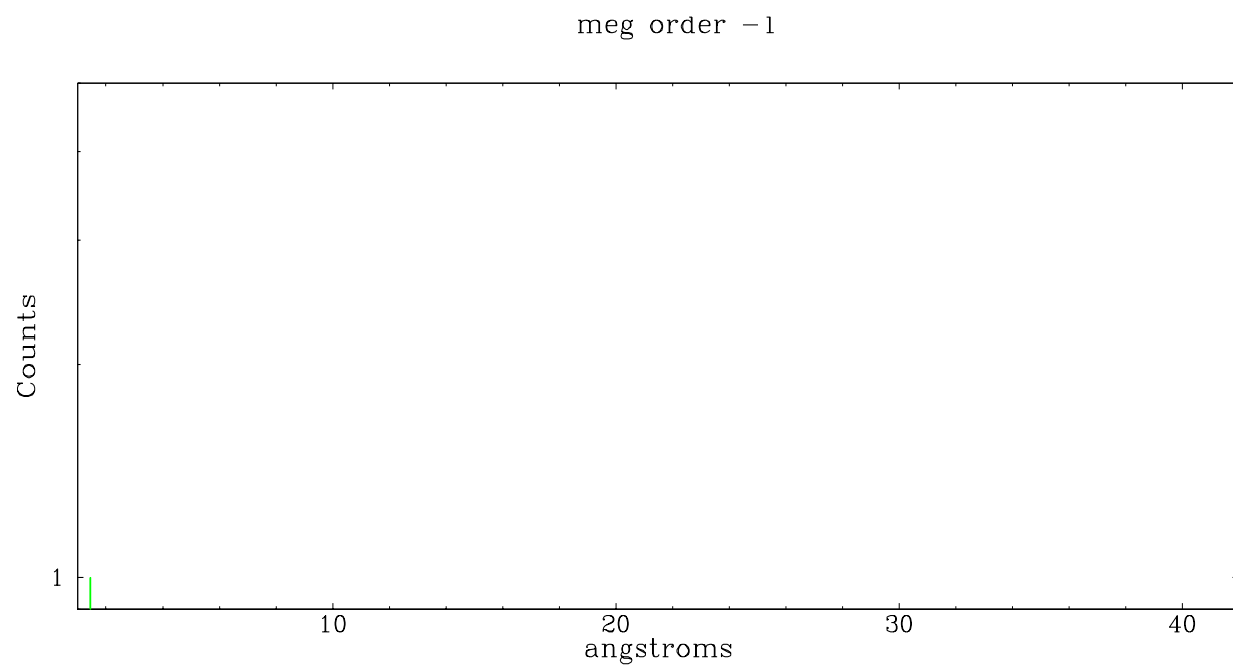
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	882	359268	1	0	0





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.853

A.2 Comments

Time constraint met.

Note: HETG used as count-rate suppression filter. No useful HETG spectral products. Only zero-order imaging or ccd-spectral data are of interest.