

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5553 - L2 Version 002
Chandra X-Ray Center

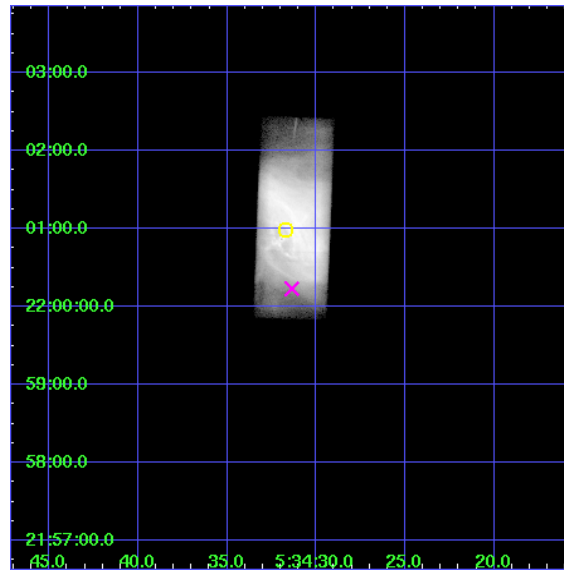
L2 Processing Date : Mar 18 2006

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1 Front

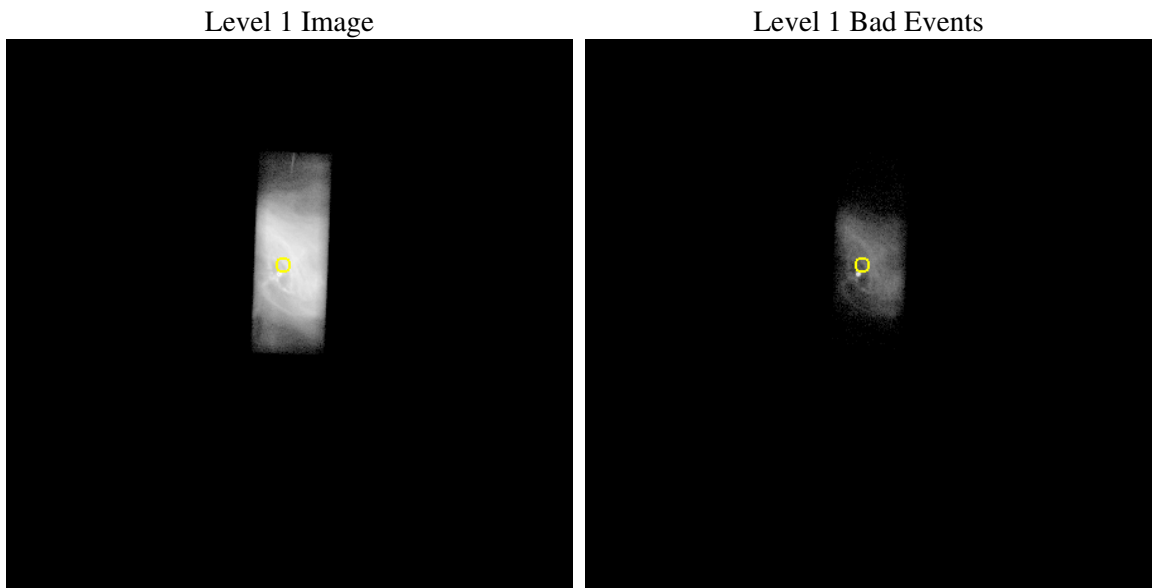
seq_num	500542
obs_id	5553
title	Monitoring of the Relativistic Magnetohydrodynamic Shock in the Crab Nebula
observer	Dr Koji Mori
object	The Crab Nebula
dtcycle	0
cycle	P
ra_targ	83.632083
dec_targ	22.016472
ra_nom	83.630757568641
dec_nom	22.004085994689
roll_nom	272.2268101364
revision	2
ontime	10152.600403428
liveltime	8930.8589051971
ontime7	10152.600403428
l2events	2673249



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-17T23:41:20
revision	2

sched_exp_time	10000.000000
ontime	10764.466348678
ontime7	10764.466348678
l1events	2837012

2.1.3 Events

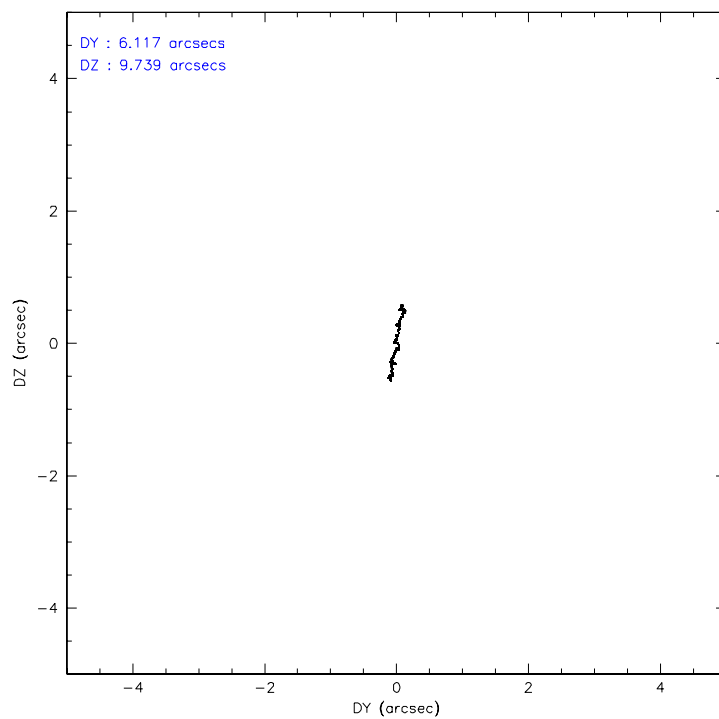
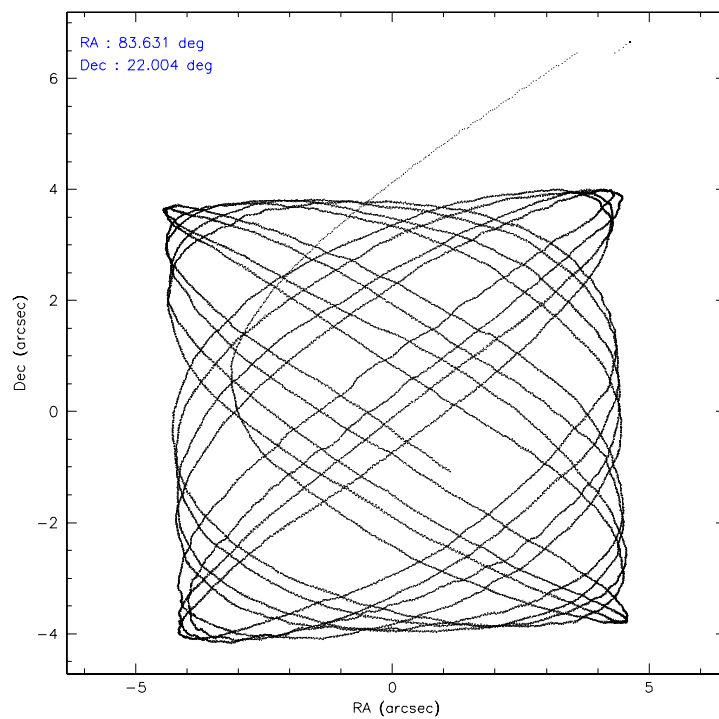
	ccd 7
level 1 events	2837012
rejected events	135418
rejected %	4%

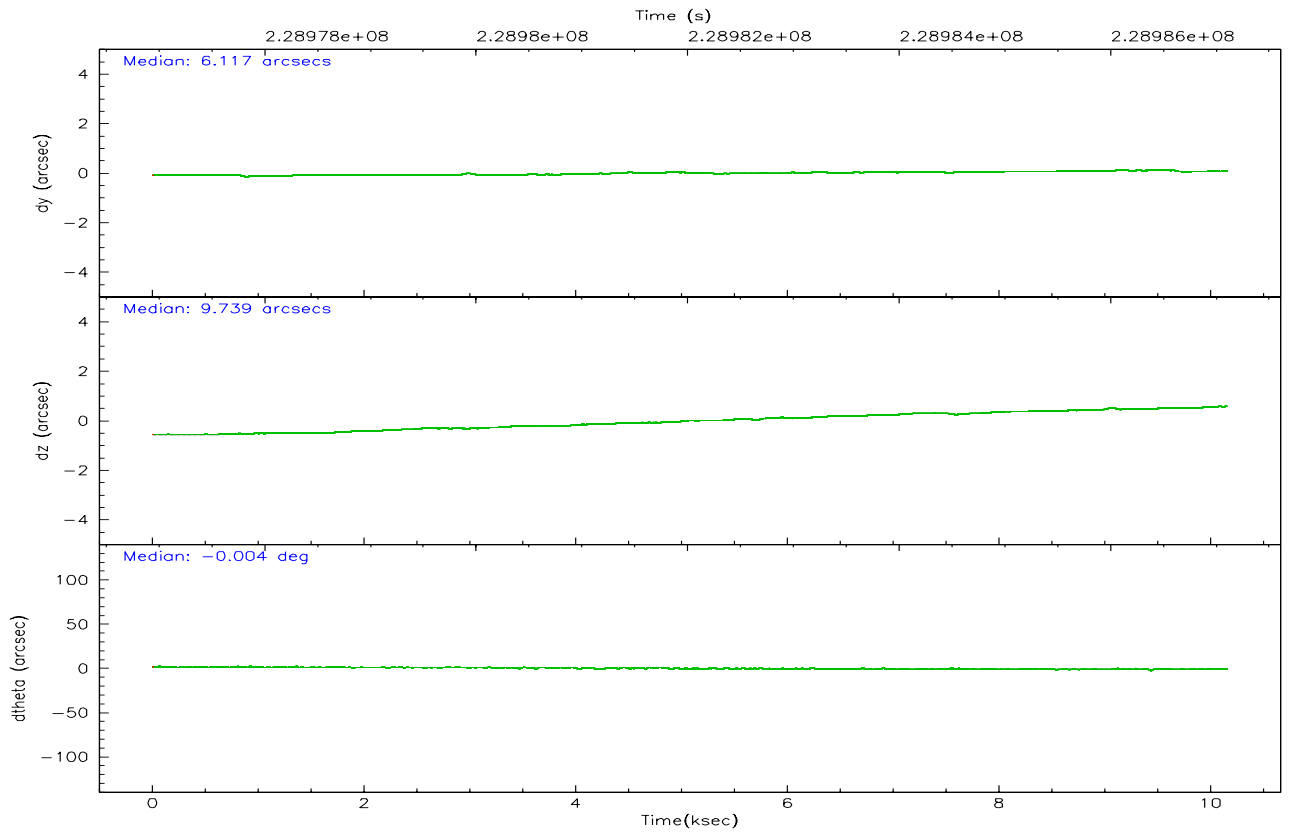
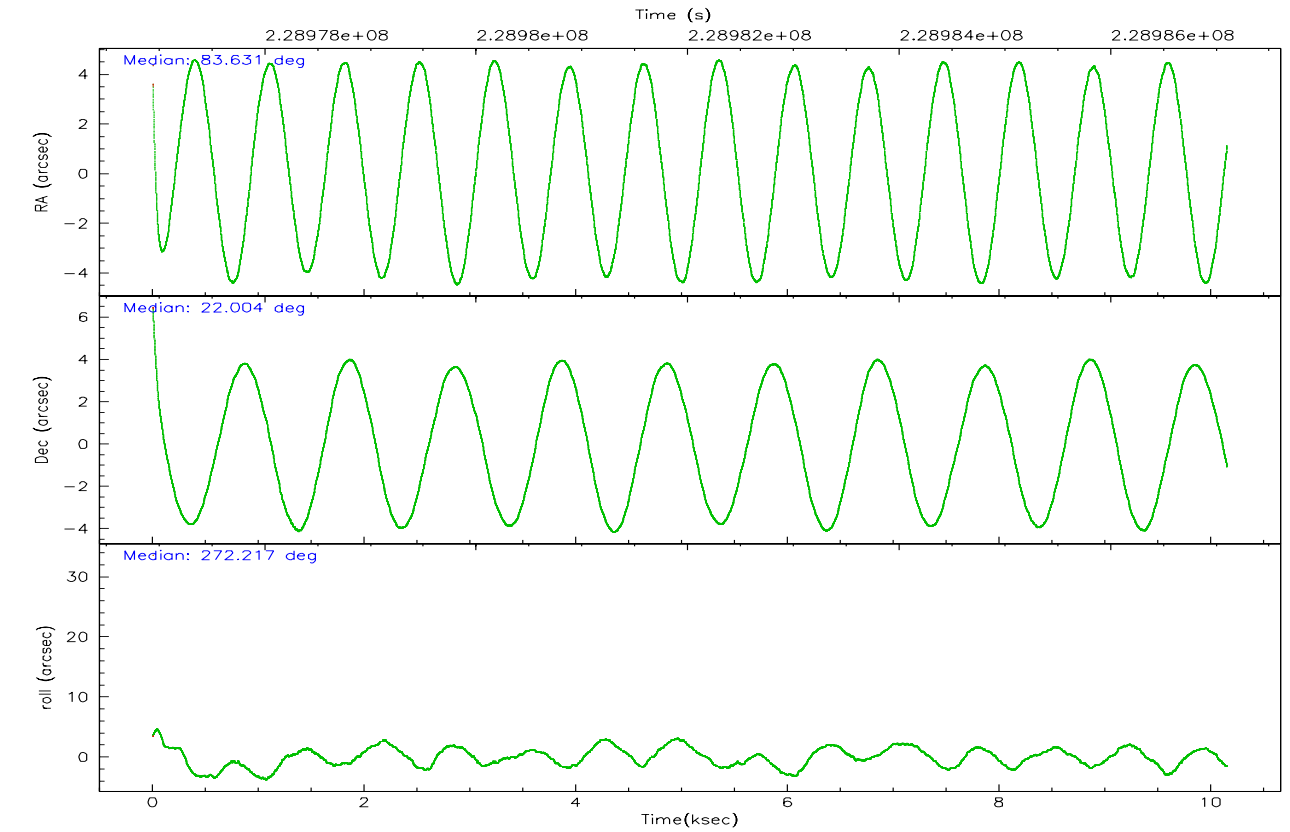
	ccd 7
grade 0 events	552210
	19%
grade 1 events	10511
	0%
grade 2 events	698593
	24%
grade 3 events	311303
	10%
grade 4 events	297514
	10%
grade 5 events	43732
	1%
grade 6 events	871997
	30%
grade 7 events	51152
	1%

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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	83.614771	83.63075756864109	Subarray start row	127	127
Pointing Dec	22.026897	22.00408599468898	Subarray row count	101	101
Pointing Roll	272.076174	272.2268101363999	Alternating exposures requested	N	N
Window start time	228960064.184000	228960064.184000	Primary exposure time	0.000000	0.3
Window stop time	229564864.184000	229564864.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	228977103.184000	228976045.80127			
Observation start date	2005-04-04T04:43:59	2005-04-04T04:27:25			
Observation end time	228987103.184000	228987237.26428			
Observation end date	2005-04-04T07:30:39	2005-04-04T07:33:57			
Read mode	TIMED	TIMED			

2.3 Aspect



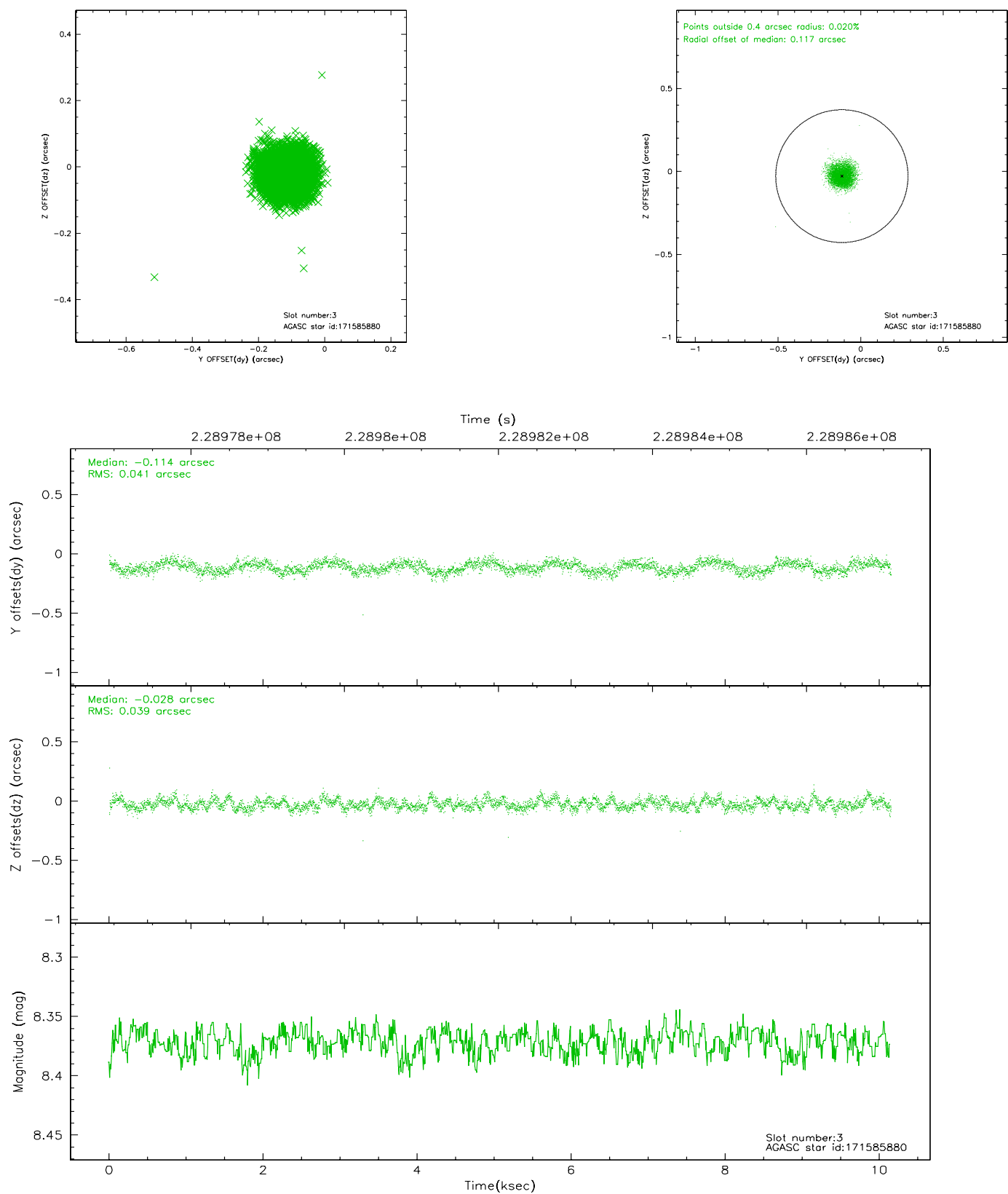


Slot Statistics

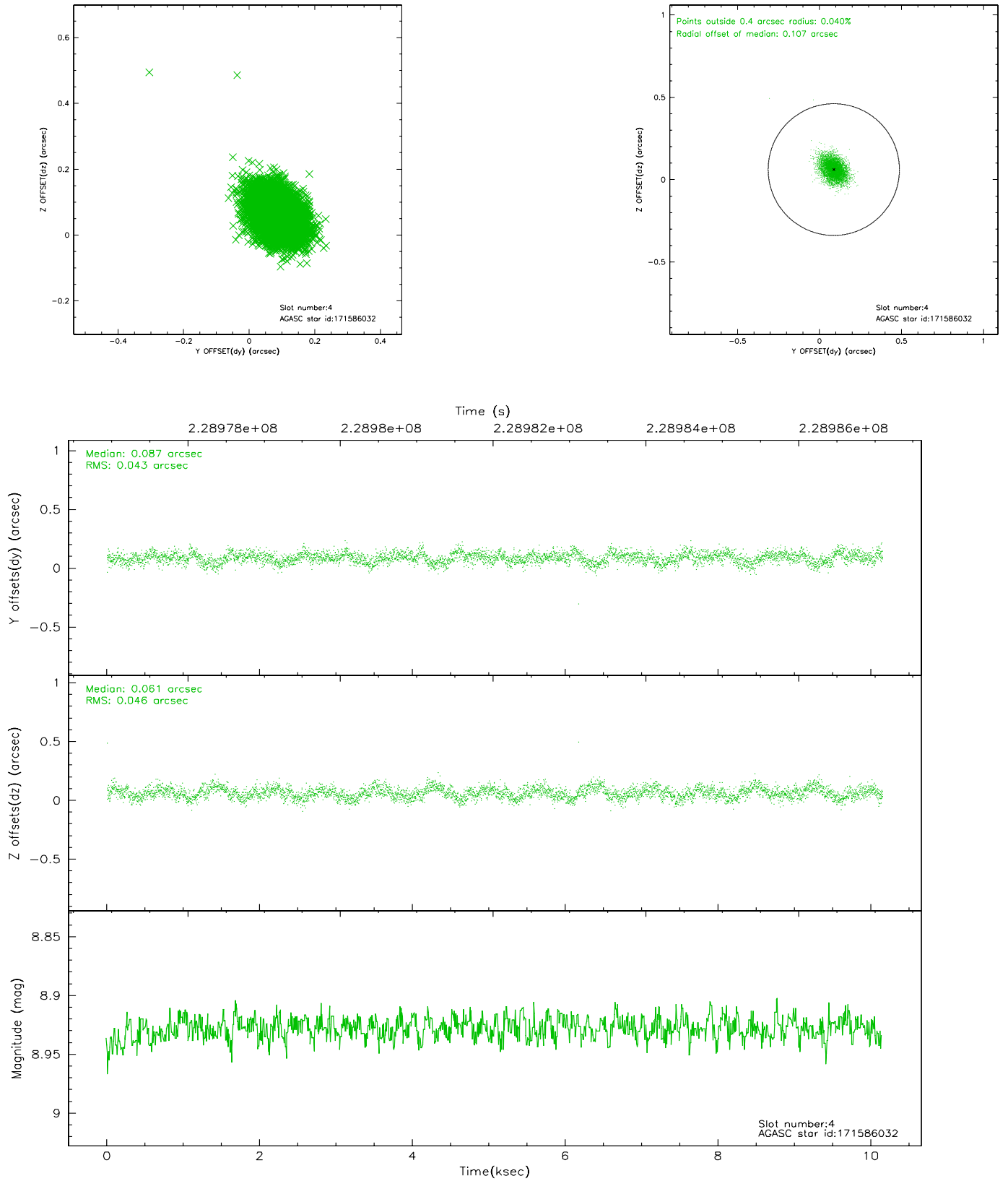
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	2477	-0.084	-0.086	0.008	0.014	0.000000	0.000000	-758.35	-1895.76
1	FID	ACIS-S-4	7.18	2477	0.135	0.064	0.007	0.011	0.000000	0.000000	2154.91	12.25
2	FID	ACIS-S-5	7.23	2475	-0.081	0.030	0.010	0.017	0.000000	0.000000	-1810.52	6.49
3	GUIDE	171585880	8.37	4953	-0.114	-0.028	0.060	0.095	83.676260	22.176319	-530.02	224.49
4	GUIDE	171586032	8.93	4949	0.087	0.061	0.067	0.109	83.950197	22.083225	-163.24	1125.95
5	GUIDE	171721904	9.20	4950	0.016	0.153	0.104	0.166	84.272676	22.116922	-249.21	2205.25
6	GUIDE	243941560	8.29	4954	-0.166	-0.049	0.068	0.105	83.733264	22.568598	-1934.63	464.59
7	GUIDE	171597832	9.16	4948	0.181	-0.141	0.108	0.167	83.183230	21.366702	2321.11	-1531.33

2.4 Star Slots

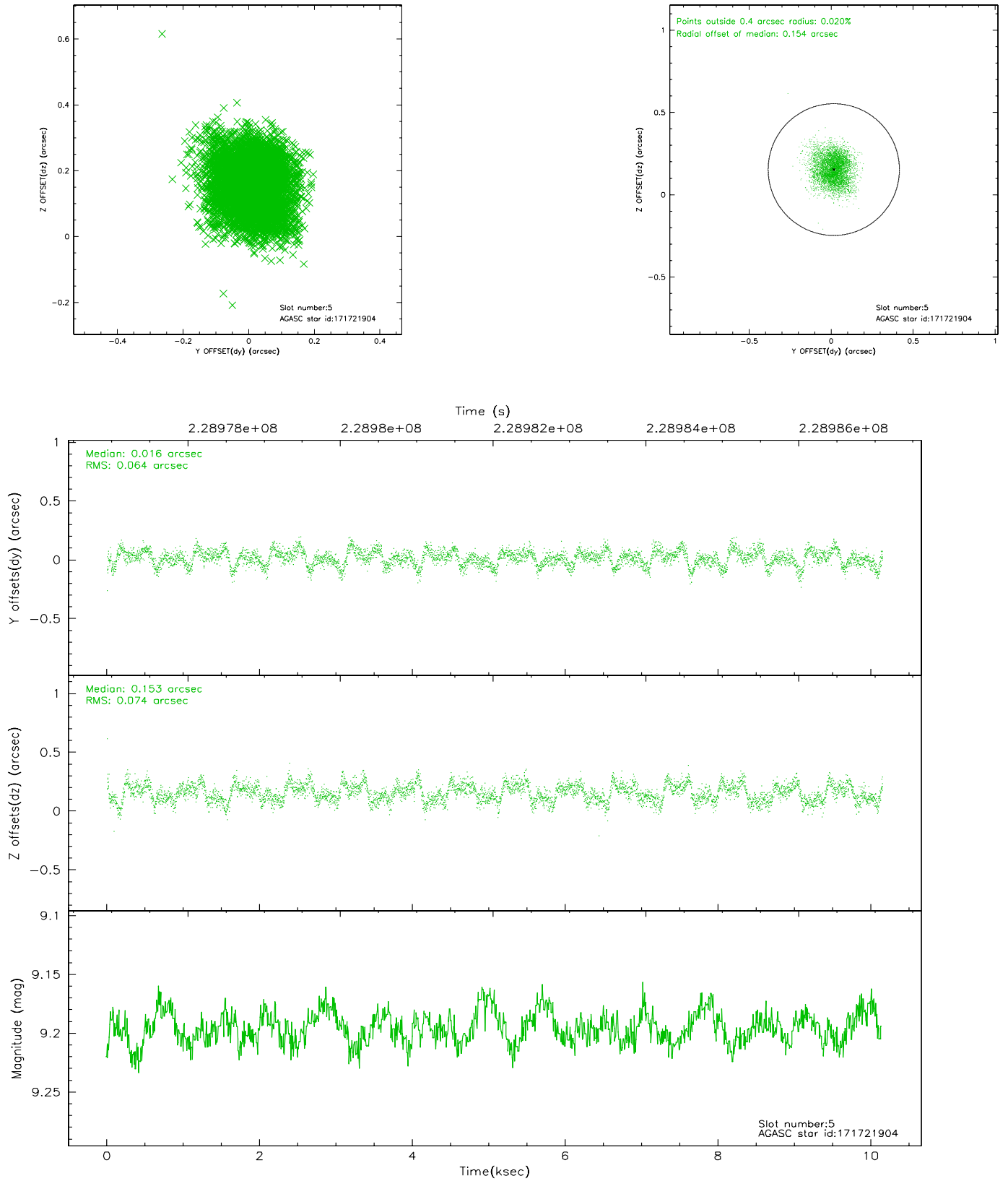
2.4.1 Slot 3



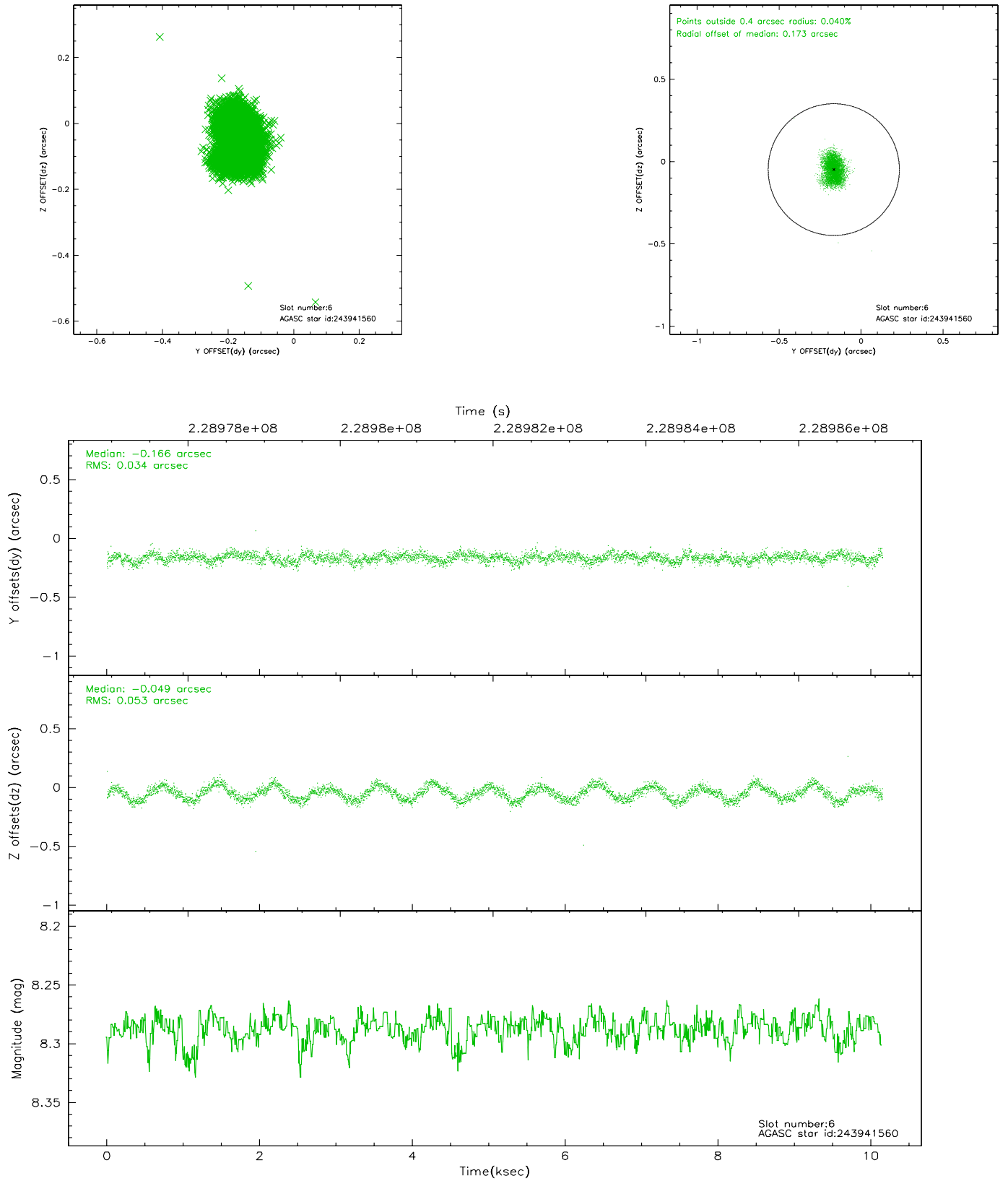
2.4.2 Slot 4



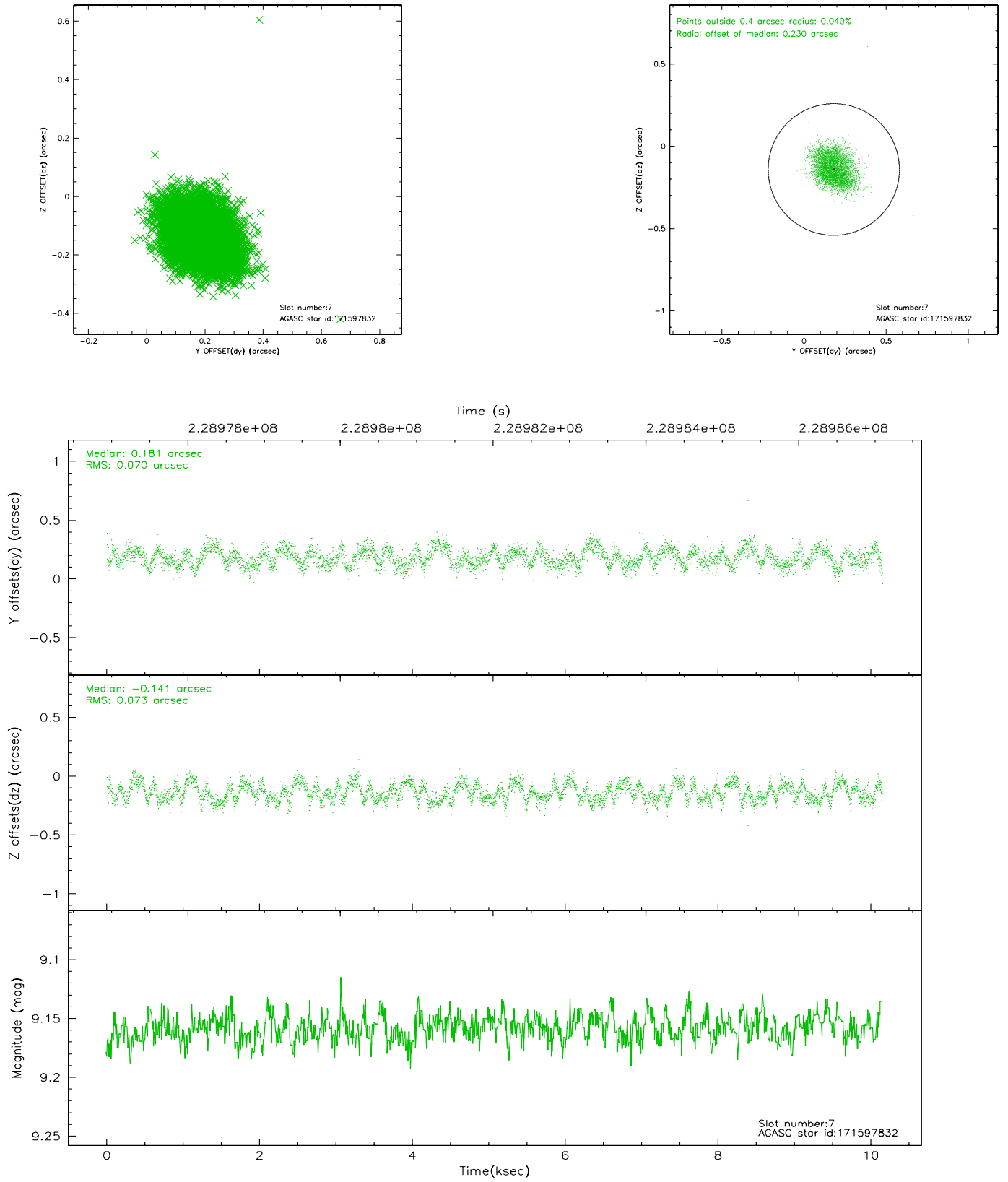
2.4.3 Slot 5



2.4.4 Slot 6

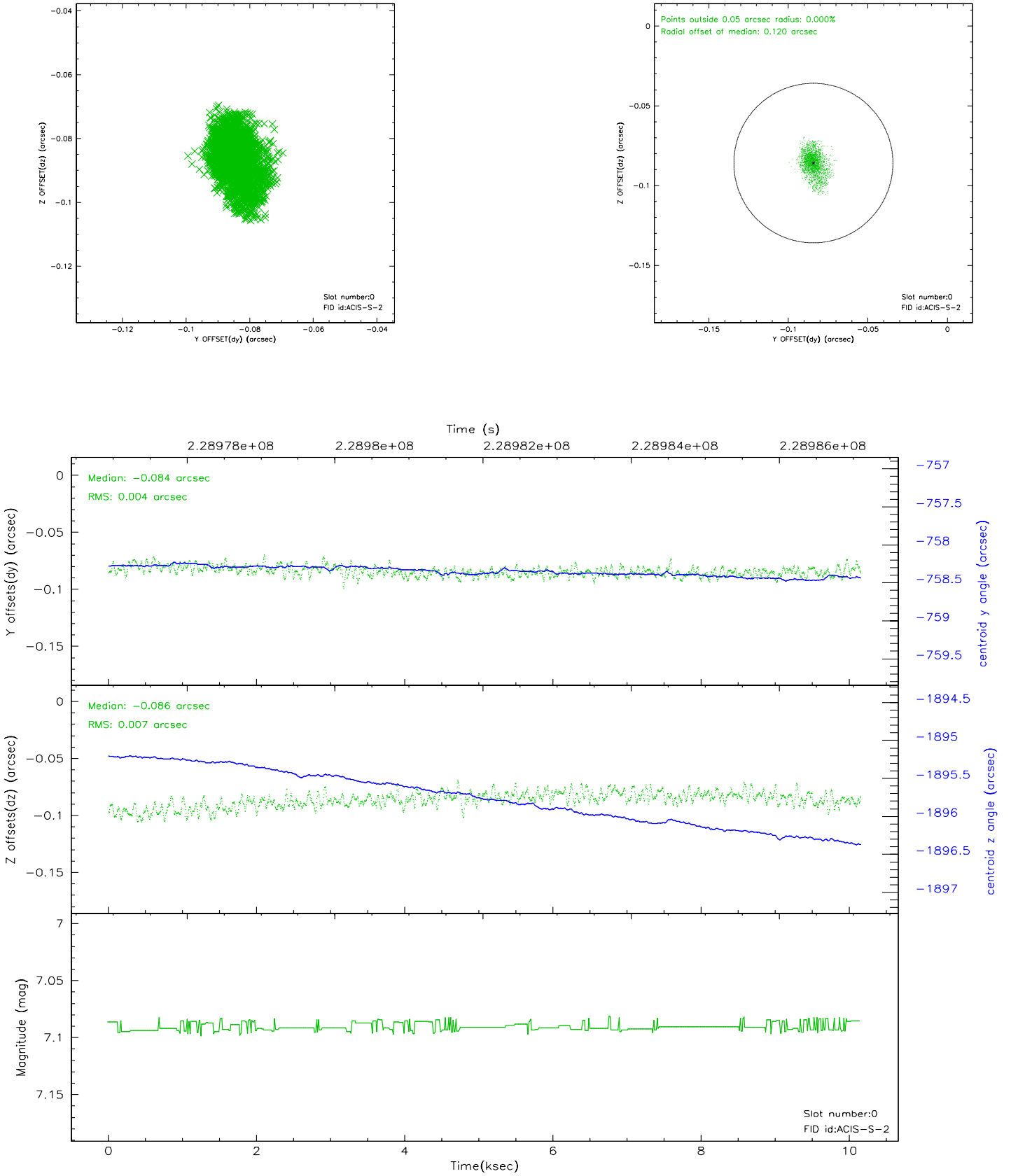


2.4.5 Slot 7

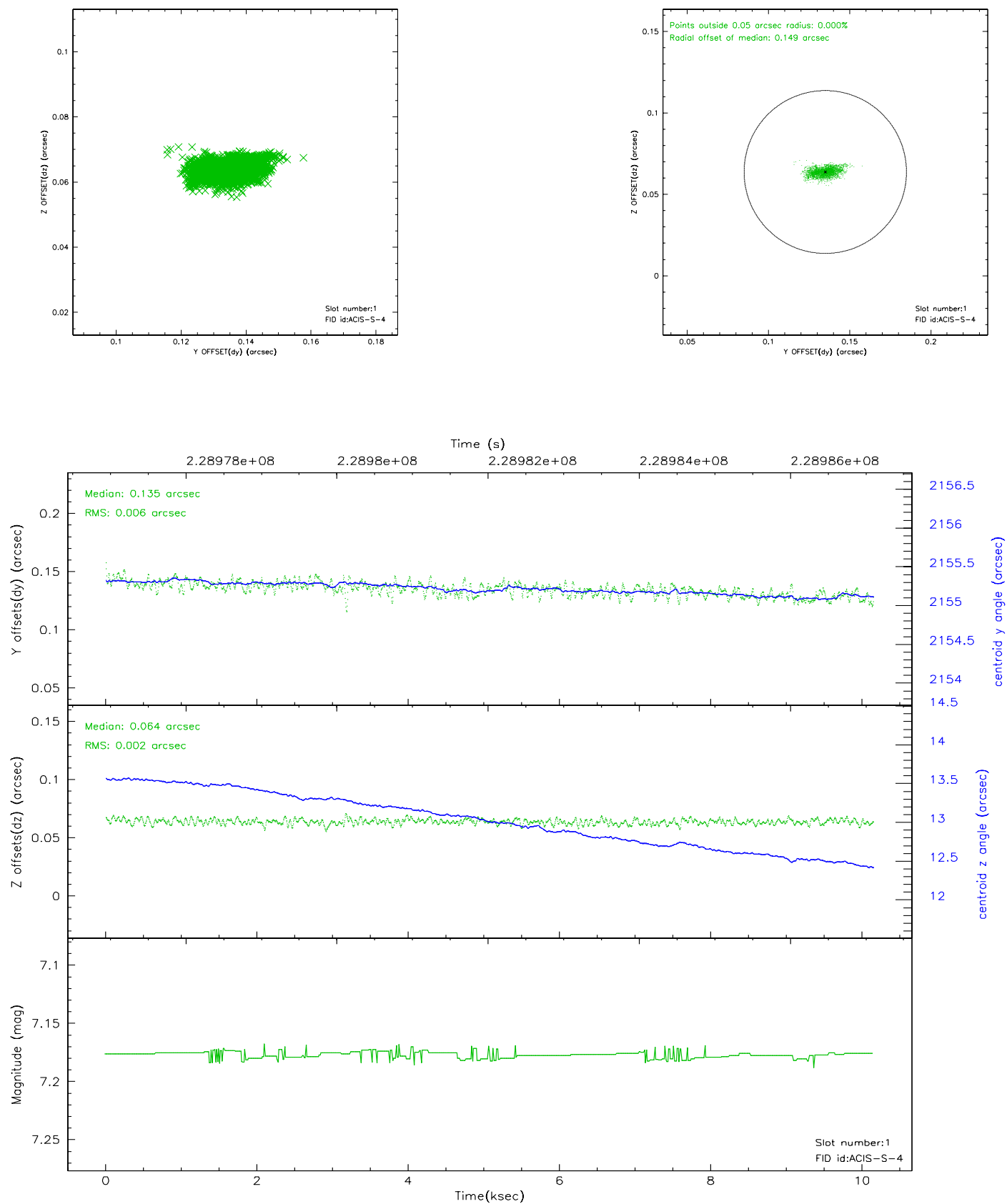


2.5 FID Slots

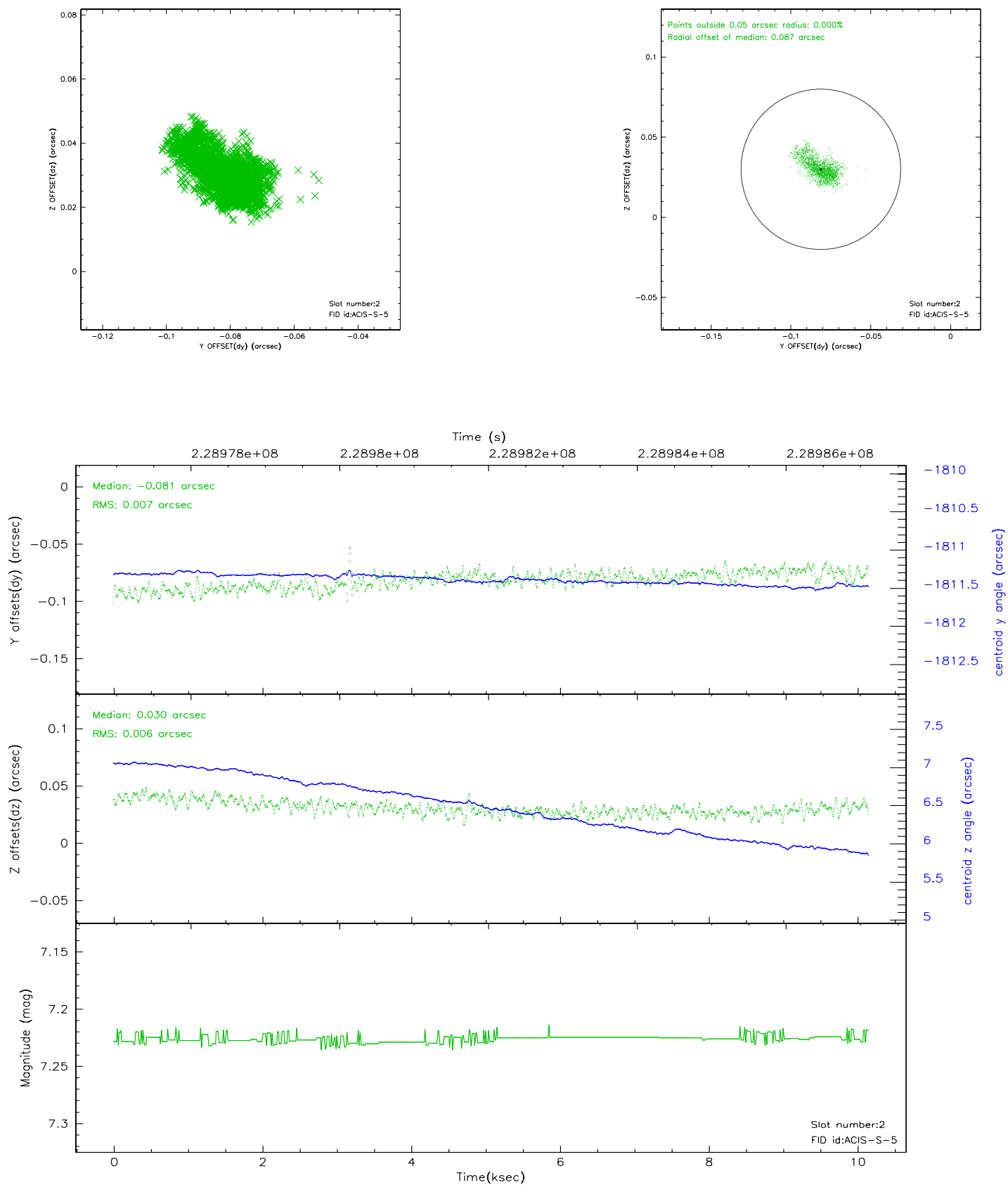
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

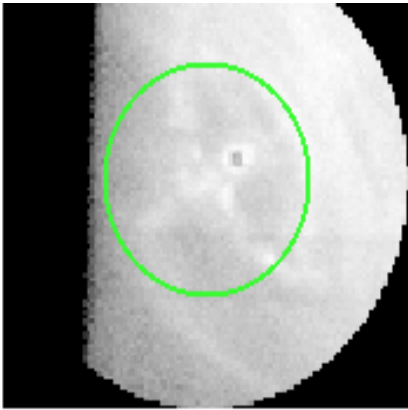


3 Gratings

3.1 HEG Arm



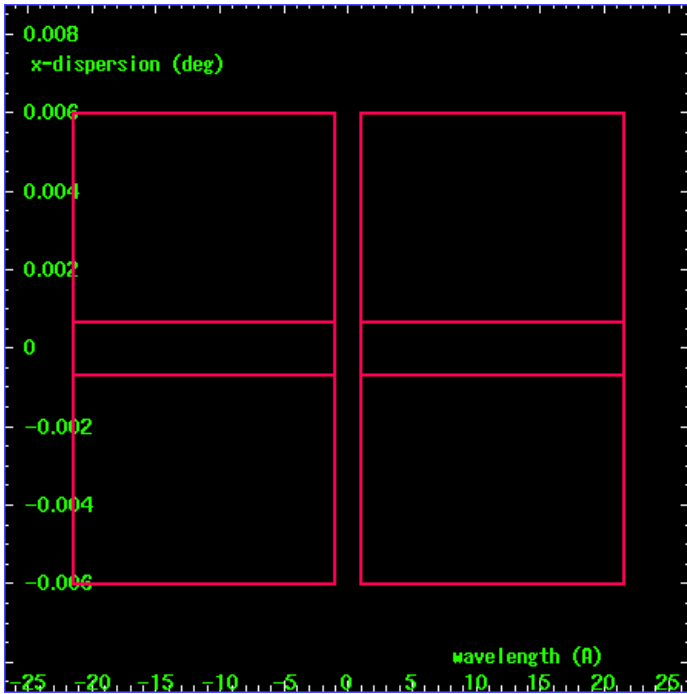
HEG Order Sort 123



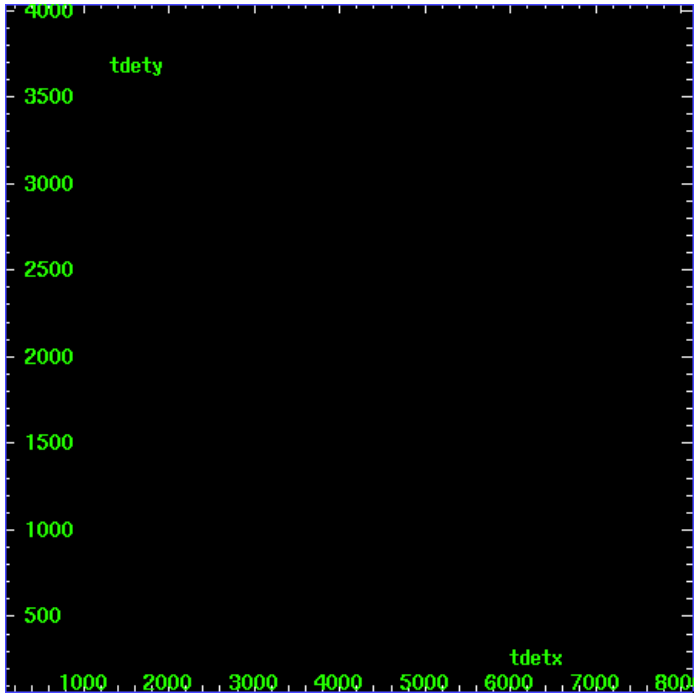
HEG Zero Order



HEG Order Sort ALL

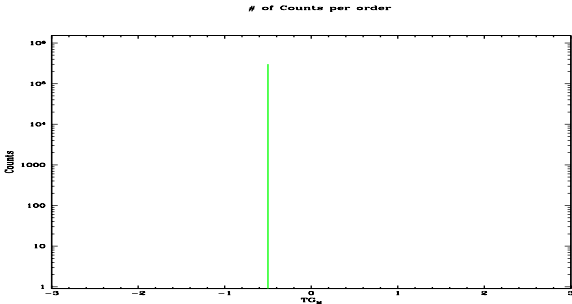


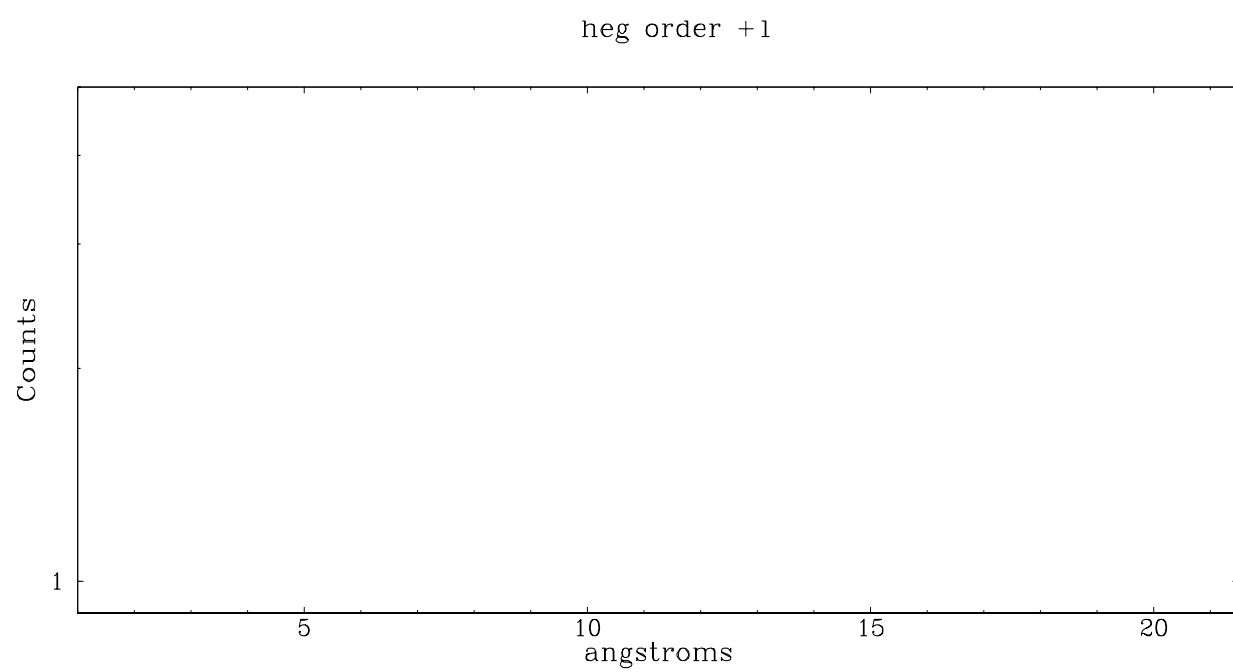
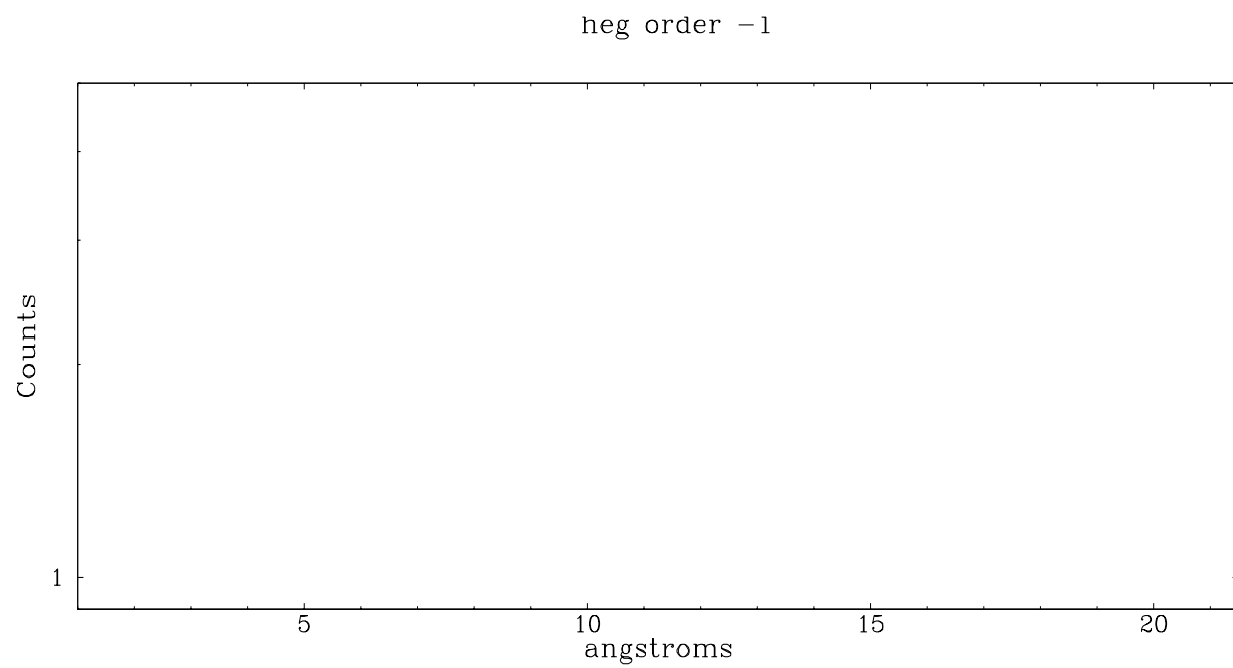
Spot Image HEG



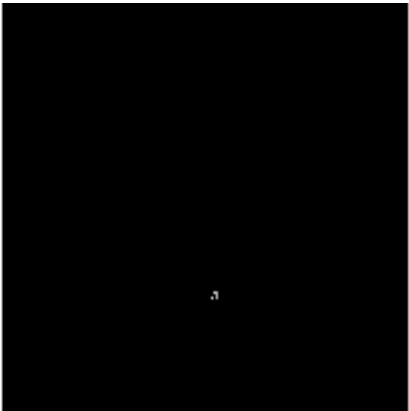
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	303714	0	0	0

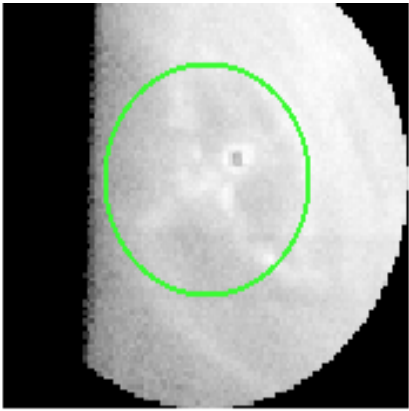




3.2 MEG Arm



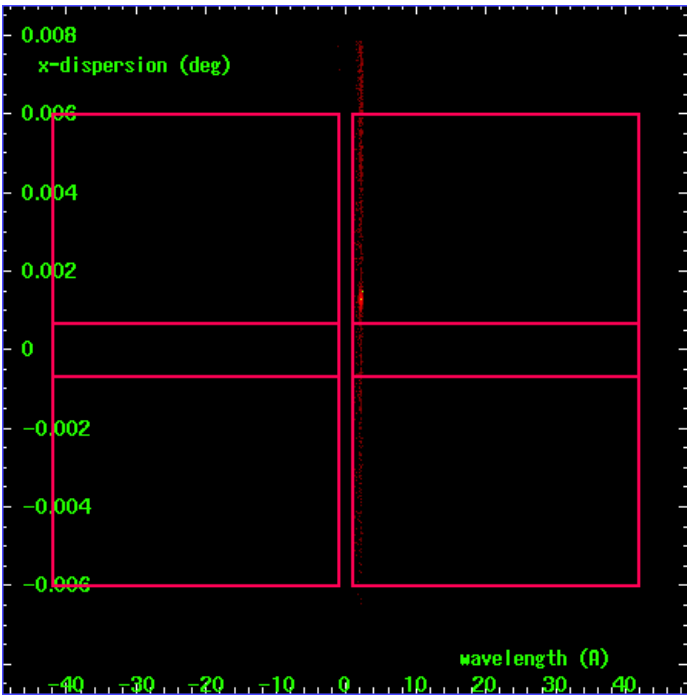
MEG Order Sort 123



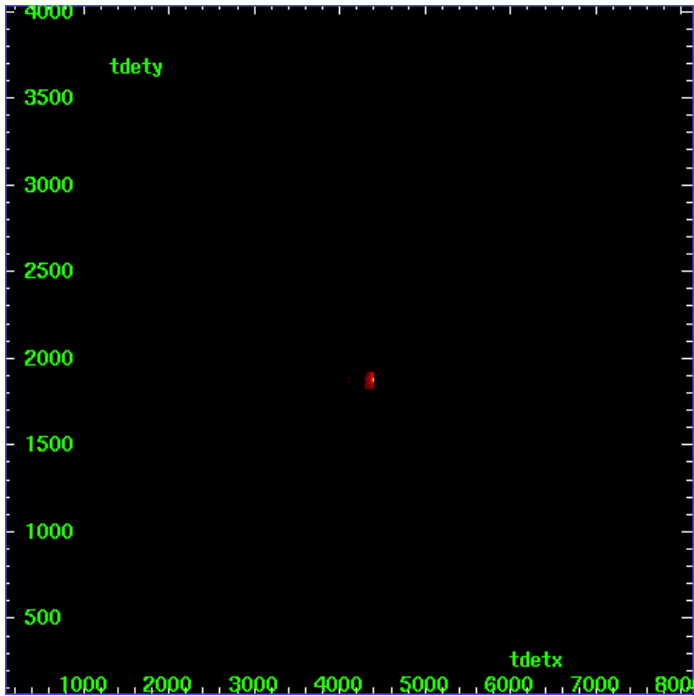
MEG Zero Order



MEG Order Sort ALL

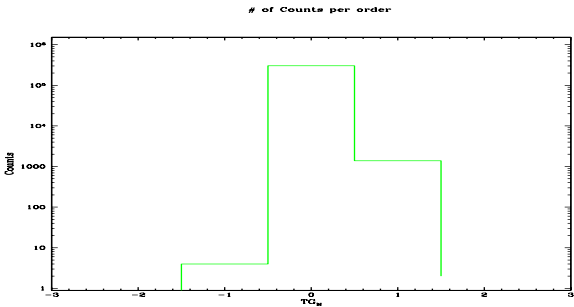


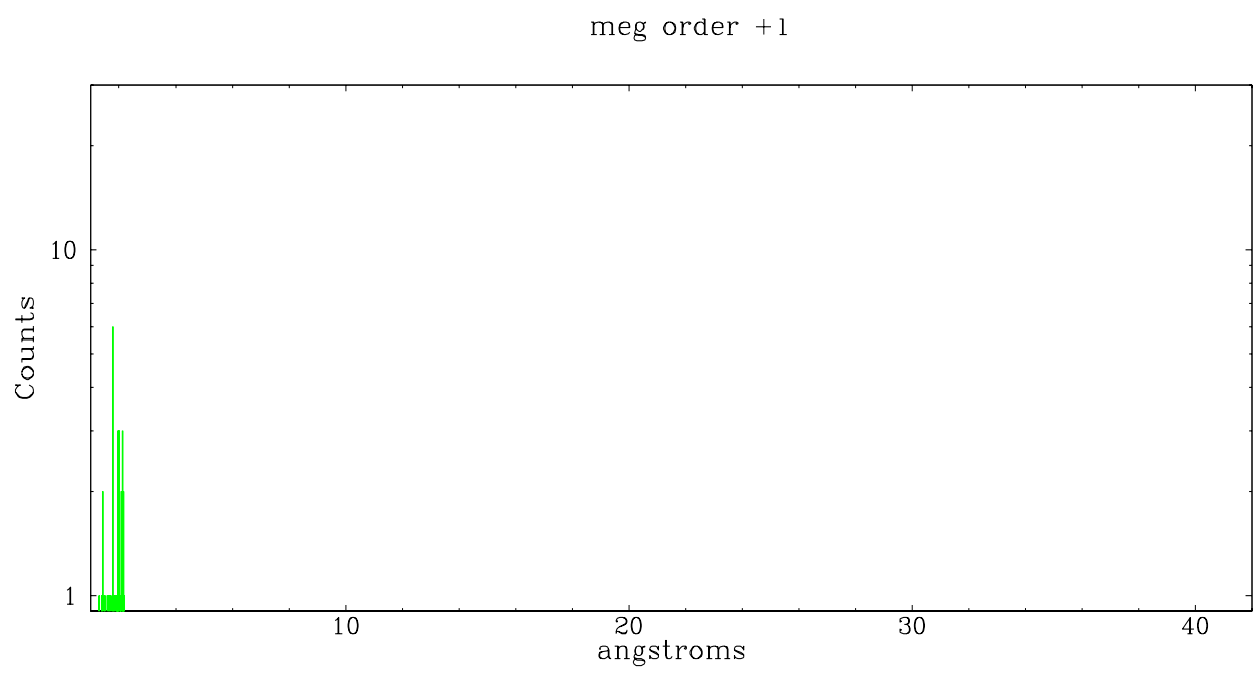
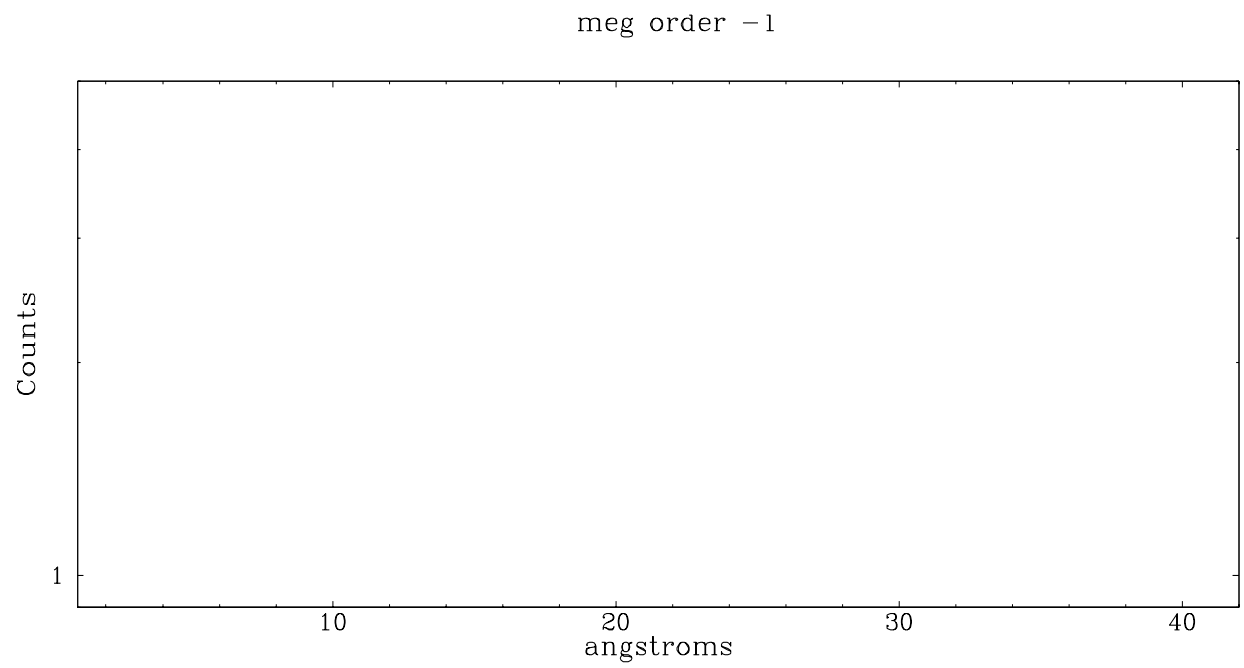
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	4	303714	1379	2	0





A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1526

A.2 Comments

Window constraint met.

Custom subarray. Zeroth order overlaps edge of detector.