

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5284 - L2 Version 001
Chandra X-Ray Center

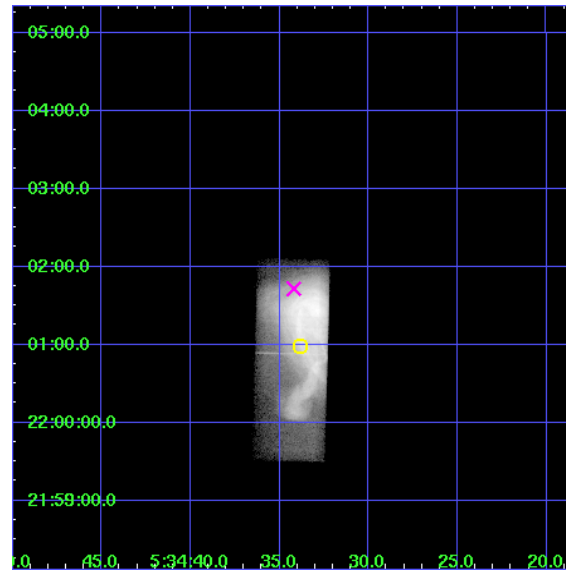
L2 Processing Date : Apr 13 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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

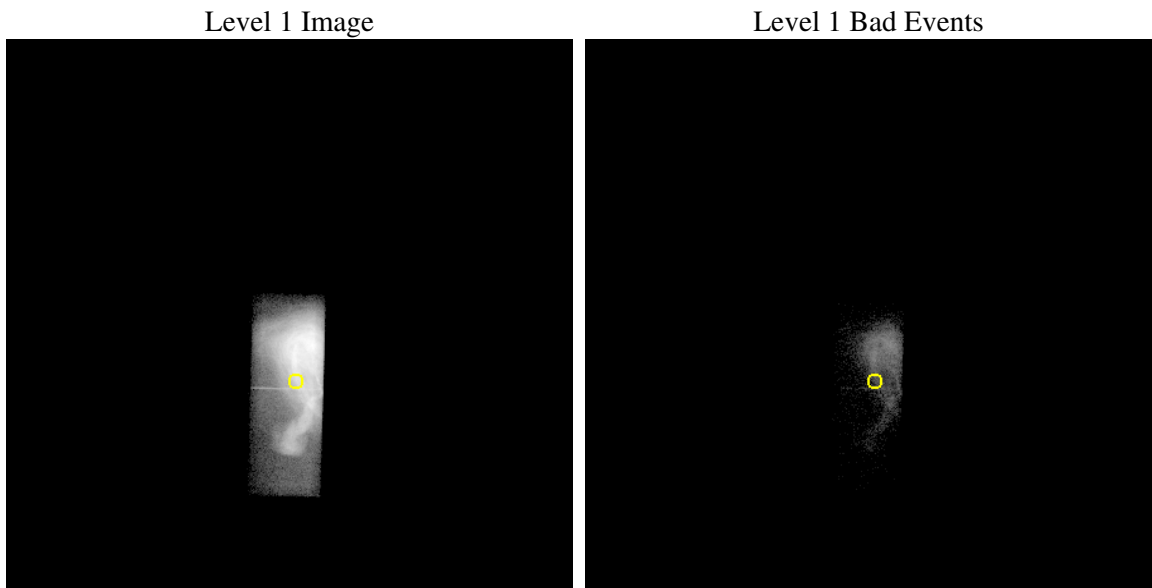
seq_num	500501
obs_id	5284
title	Spectroscopic Study of the Dynamic Shock in the Pulsar Wind of the Crab Nebula
observer	Dr Koji Mori
object	The Crab Nebula
dtcycle	0
cycle	P
ra_targ	83.641083
dec_targ	22.016472
ra_nom	83.642538761752
dec_nom	22.028811600531
roll_nom	91.484043943238
revision	2
ontime	9578.7003806233
livetime	8426.0207429832
ontime7	9578.7003806233
l2events	1023391



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	2006-04-13T11:11:17
revision	2

sched_exp_time	9427.340000
ontime	10667.63046816
ontime7	10667.63046816
l1events	1073270

2.1.3 Events

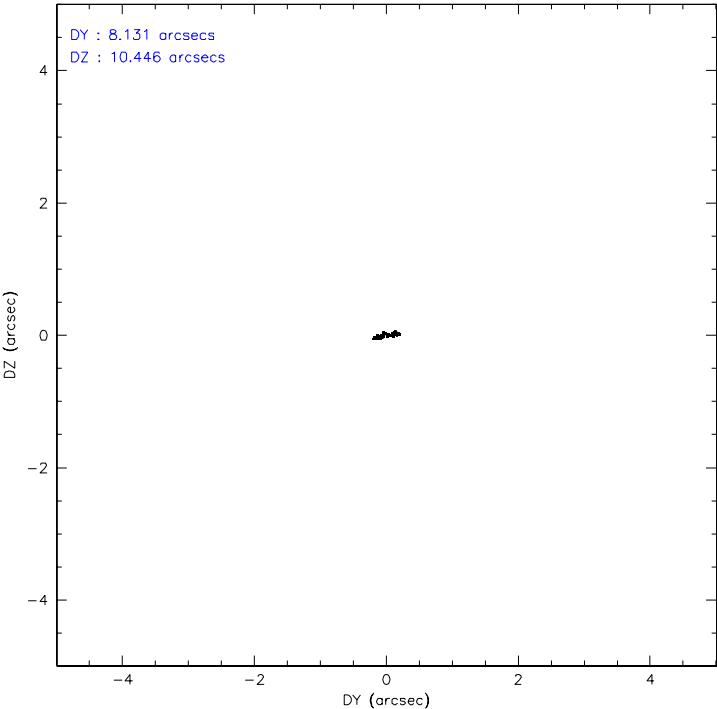
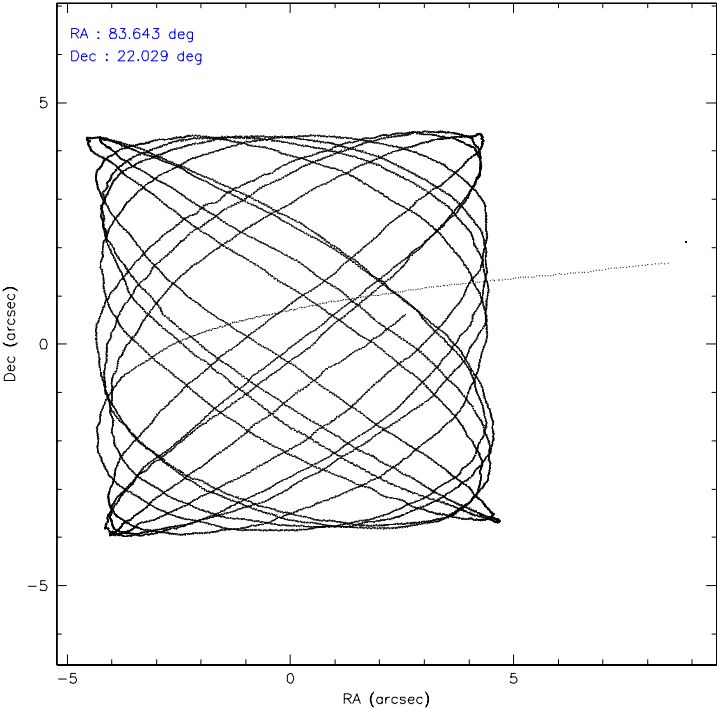
	ccd 7
level 1 events	1073270
rejected events	31950
rejected %	2%

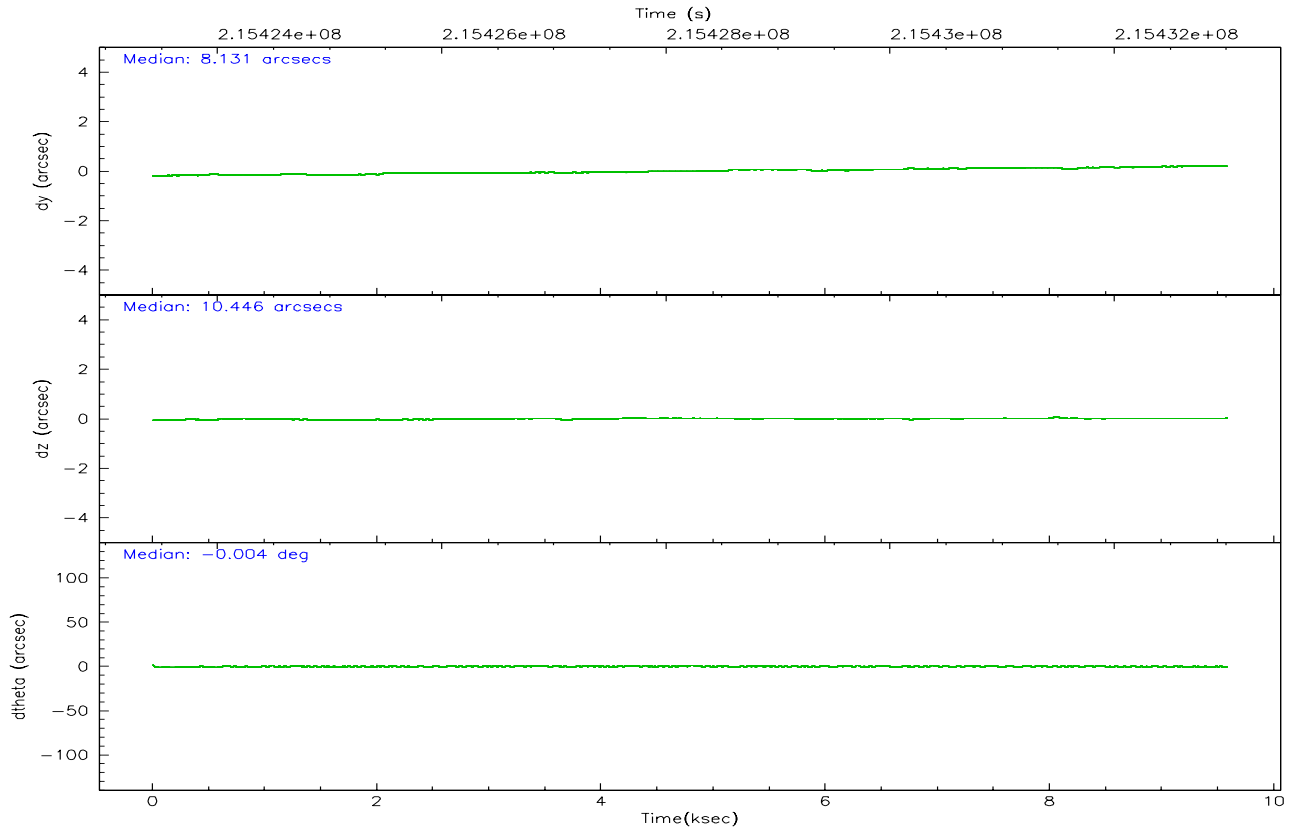
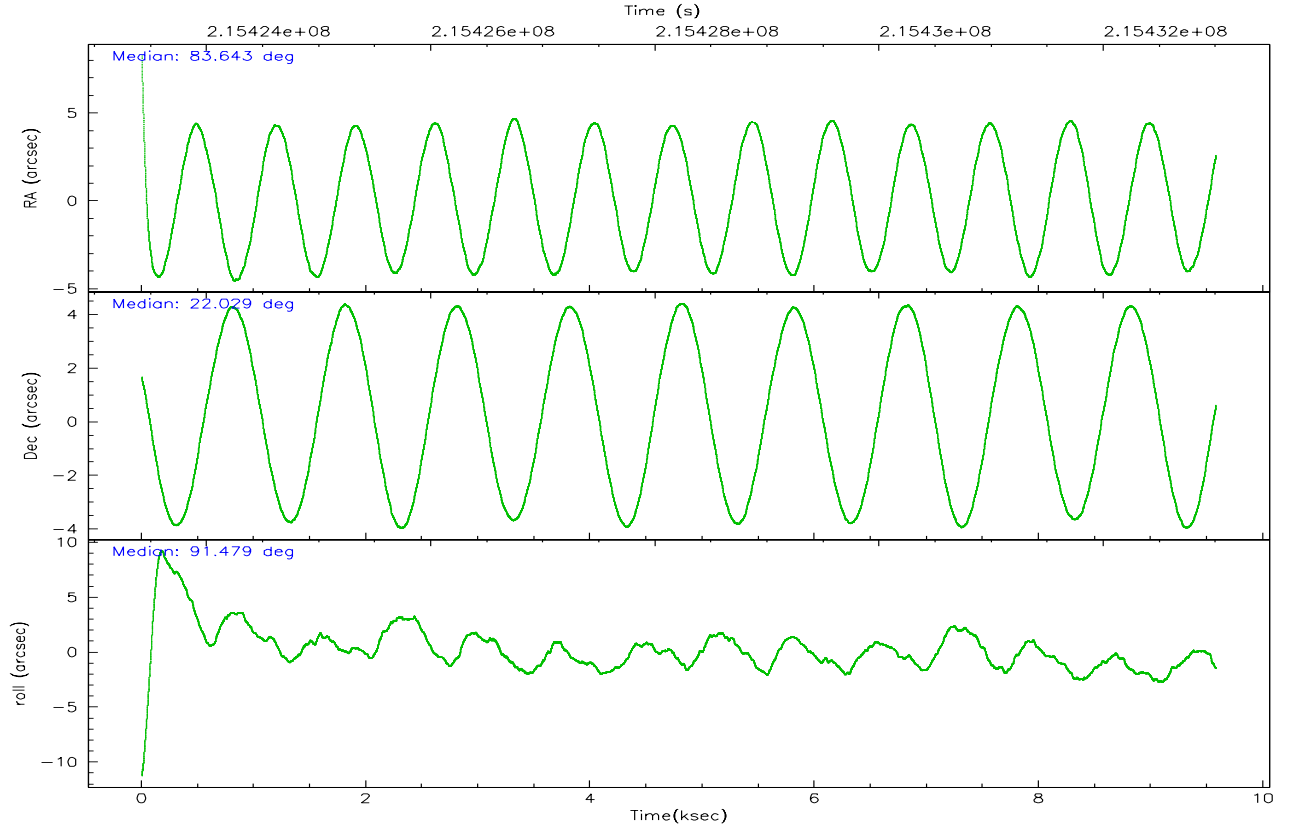
	ccd 7
grade 0 events	206055
	19%
grade 1 events	2341
	0%
grade 2 events	265109
	24%
grade 3 events	117709
	10%
grade 4 events	114934
	10%
grade 5 events	11928
	1%
grade 6 events	342087
	31%
grade 7 events	13107
	1%

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	83.658259	83.64253876175206	Subarray start row	127	127
Pointing Dec	22.005838	22.02881160053139	Subarray row count	101	101
Pointing Roll	91.321531	91.48404394323832	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.3
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	215423583.184000	215422343.08972			
Observation start date	2004-10-29T07:51:59	2004-10-29T07:32:23			
Observation end time	215433010.184000	215433233.2027			
Observation end date	2004-10-29T10:29:06	2004-10-29T10:33:53			
Read mode	TIMED	TIMED			

2.3 Aspect



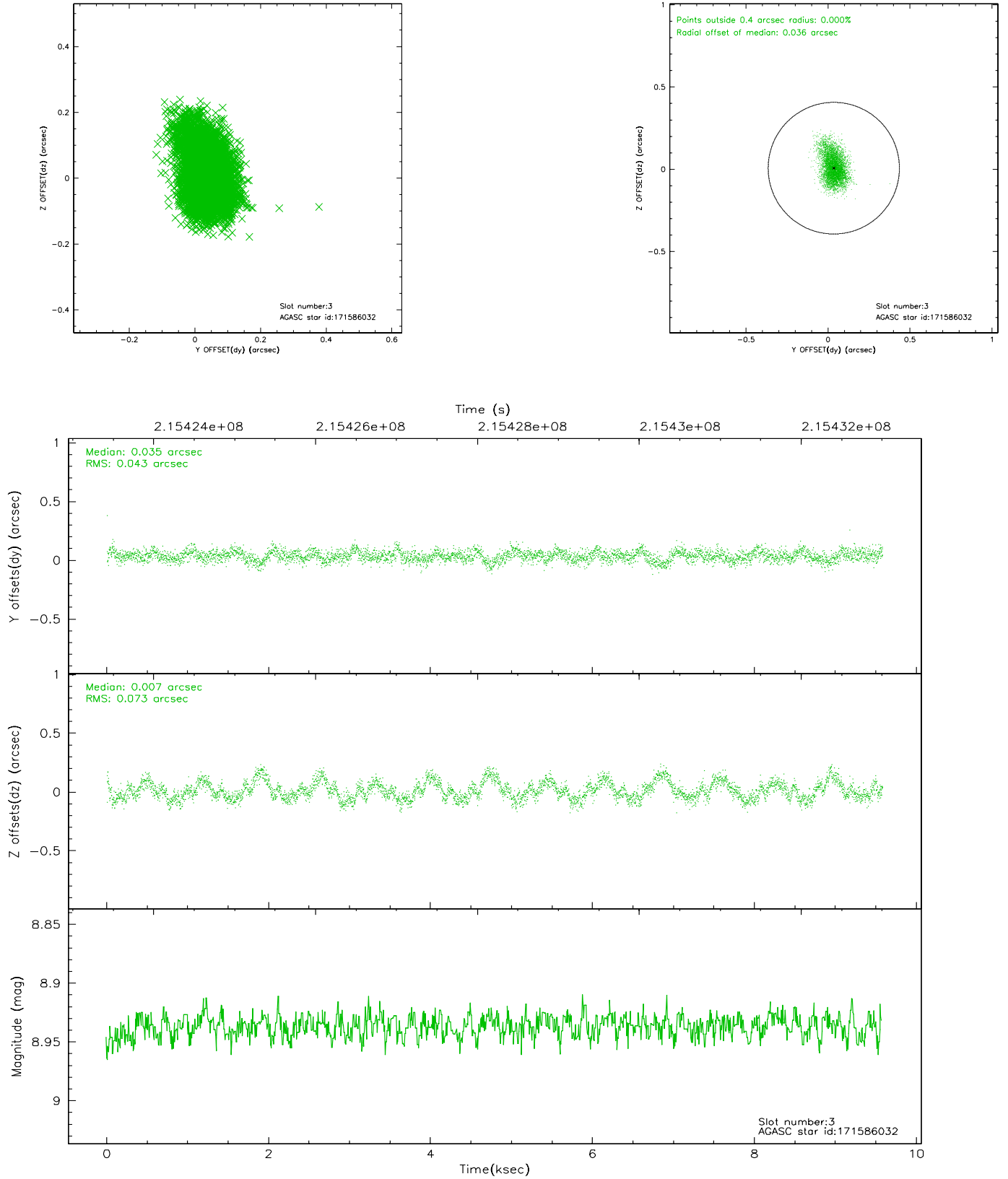


Slot Statistics

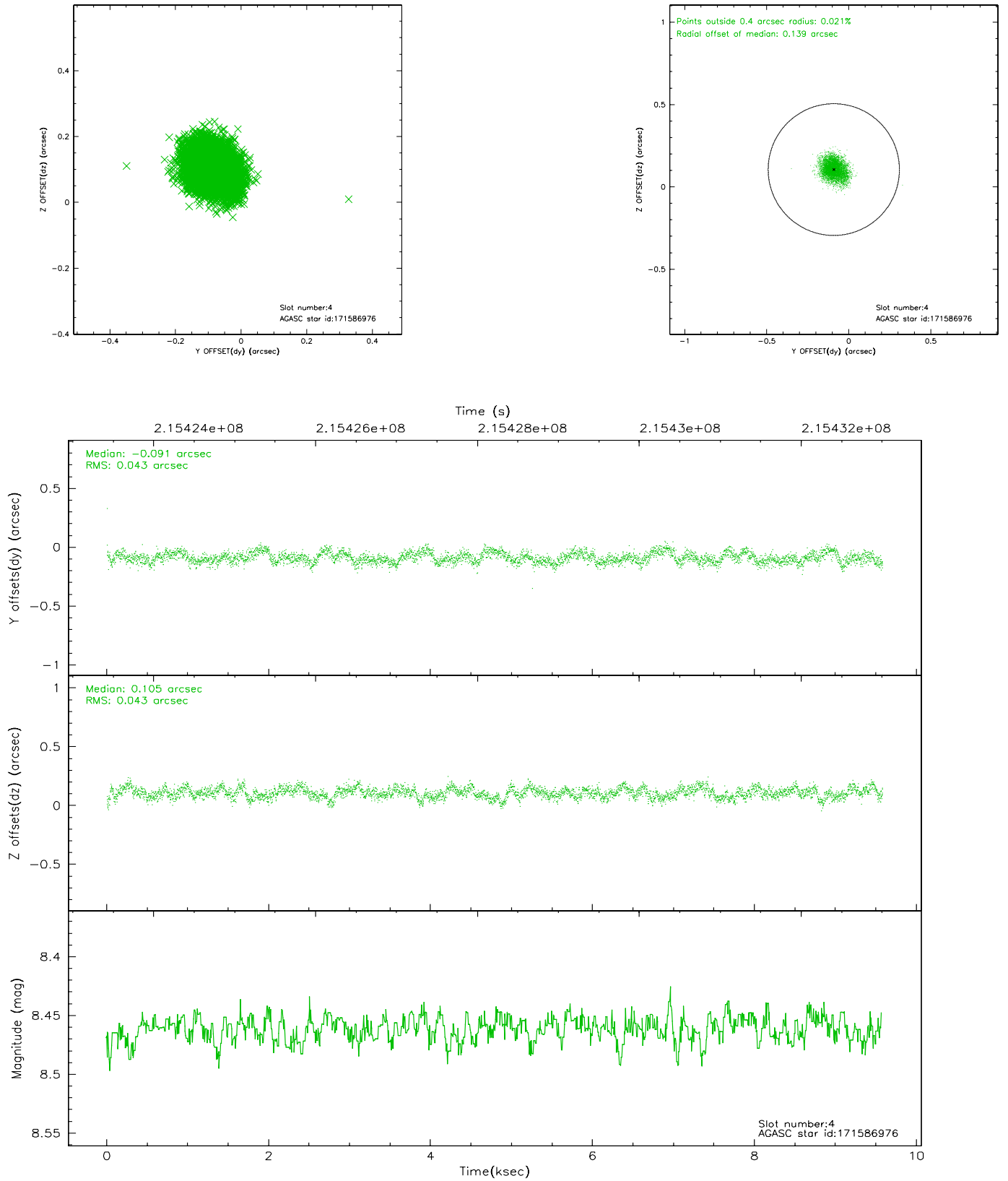
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	2337	-0.046	-0.070	0.007	0.013	0.000000	0.000000	-760.38	-1896.54
1	FID	ACIS-S-4	7.18	2337	0.057	0.041	0.007	0.015	0.000000	0.000000	2152.74	11.41
2	FID	ACIS-S-5	7.23	2337	-0.042	0.037	0.008	0.014	0.000000	0.000000	-1812.51	5.69
3	GUIDE	171586032	8.94	4671	0.035	0.007	0.088	0.153	83.950197	22.083225	257.58	-979.89
4	GUIDE	171586976	8.46	4673	-0.091	0.105	0.065	0.103	83.857953	22.438065	1541.09	-700.16
5	GUIDE	171597832	9.14	4672	0.264	-0.163	0.085	0.136	83.183230	21.366702	-2260.23	1644.88
6	GUIDE	171721904	9.19	4670	-0.019	0.034	0.104	0.157	84.272676	22.116922	356.82	-2057.35
7	GUIDE	243941560	8.32	4673	-0.189	-0.003	0.085	0.126	83.733264	22.568598	2020.01	-296.06

2.4 Star Slots

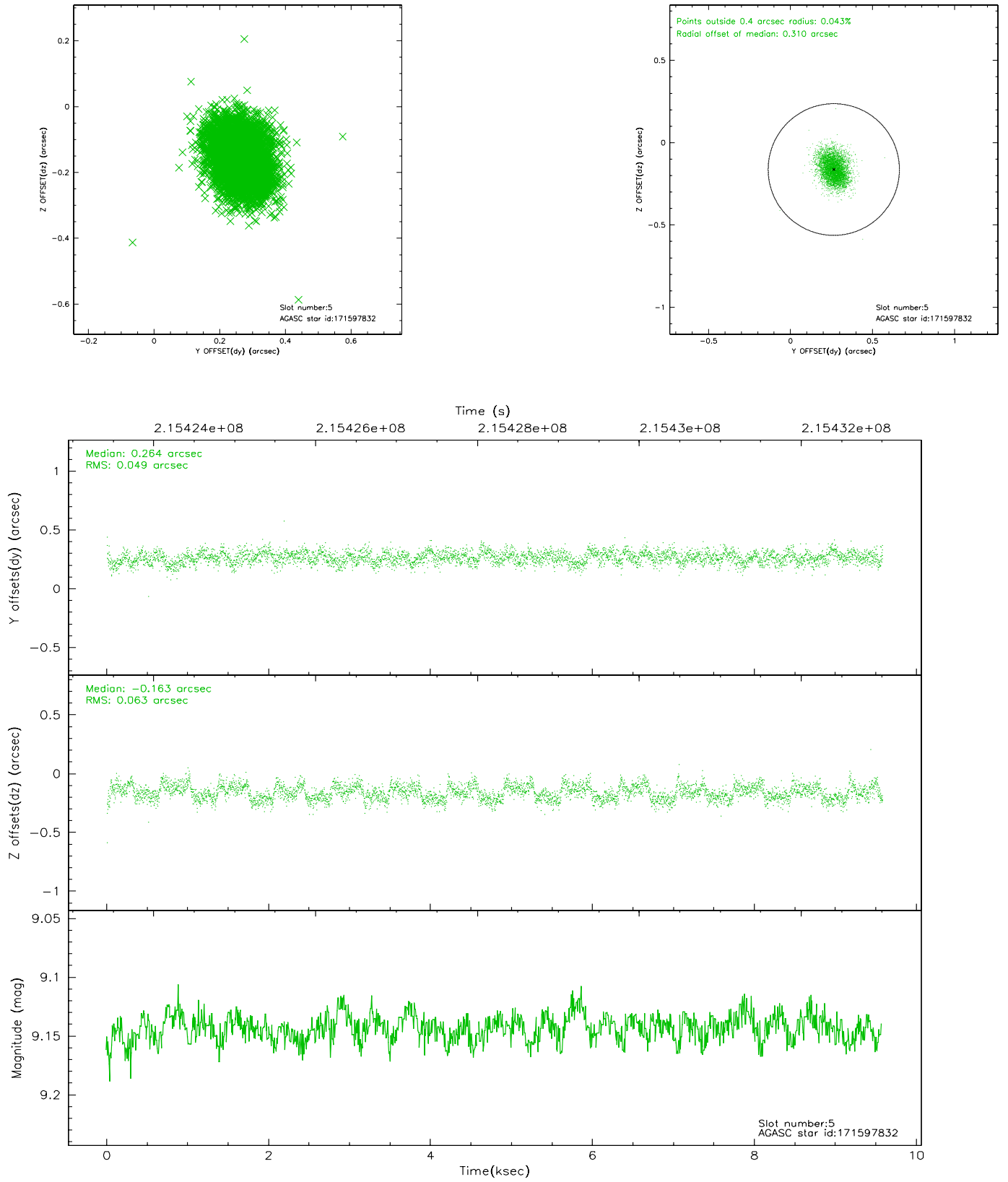
2.4.1 Slot 3



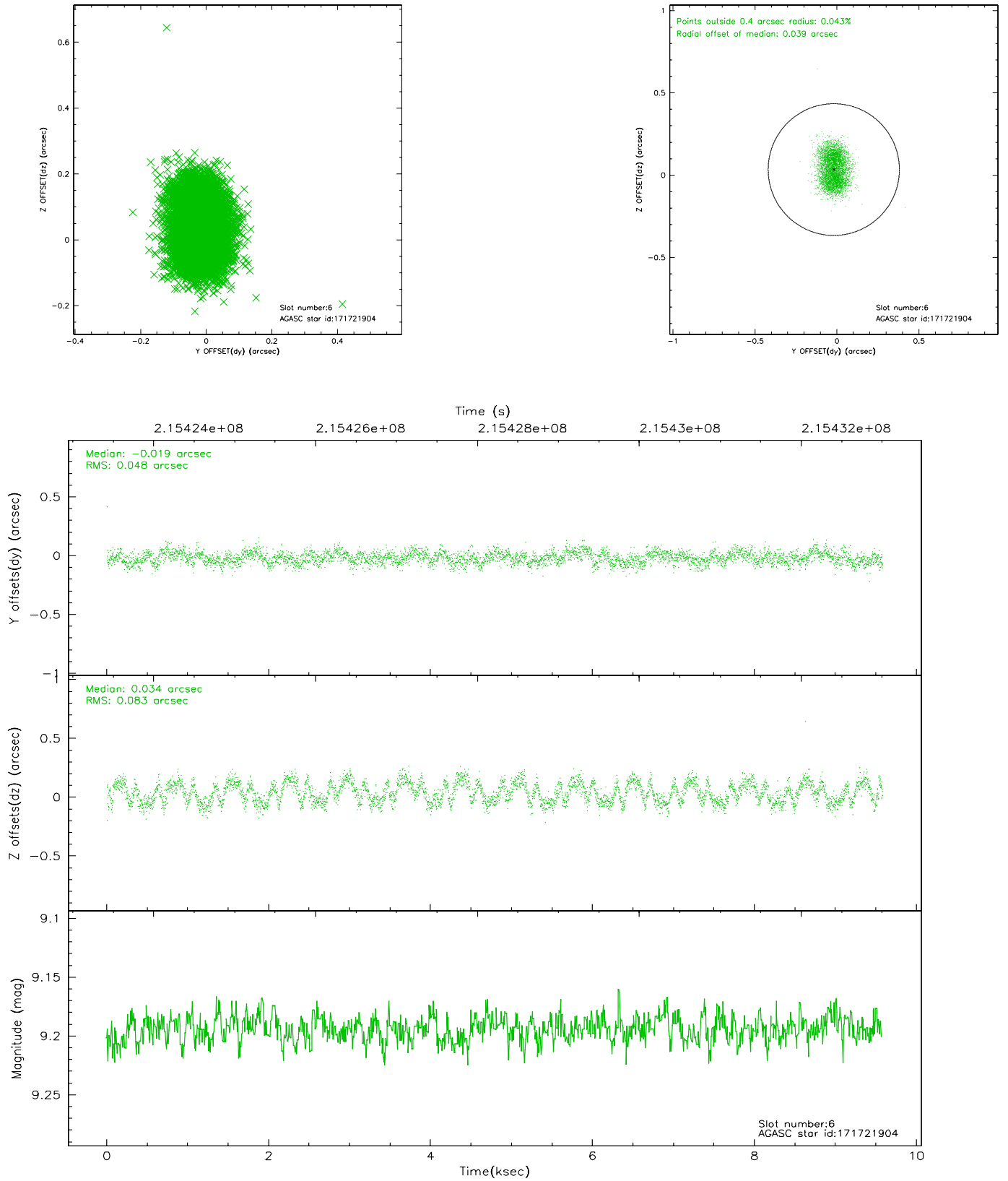
2.4.2 Slot 4



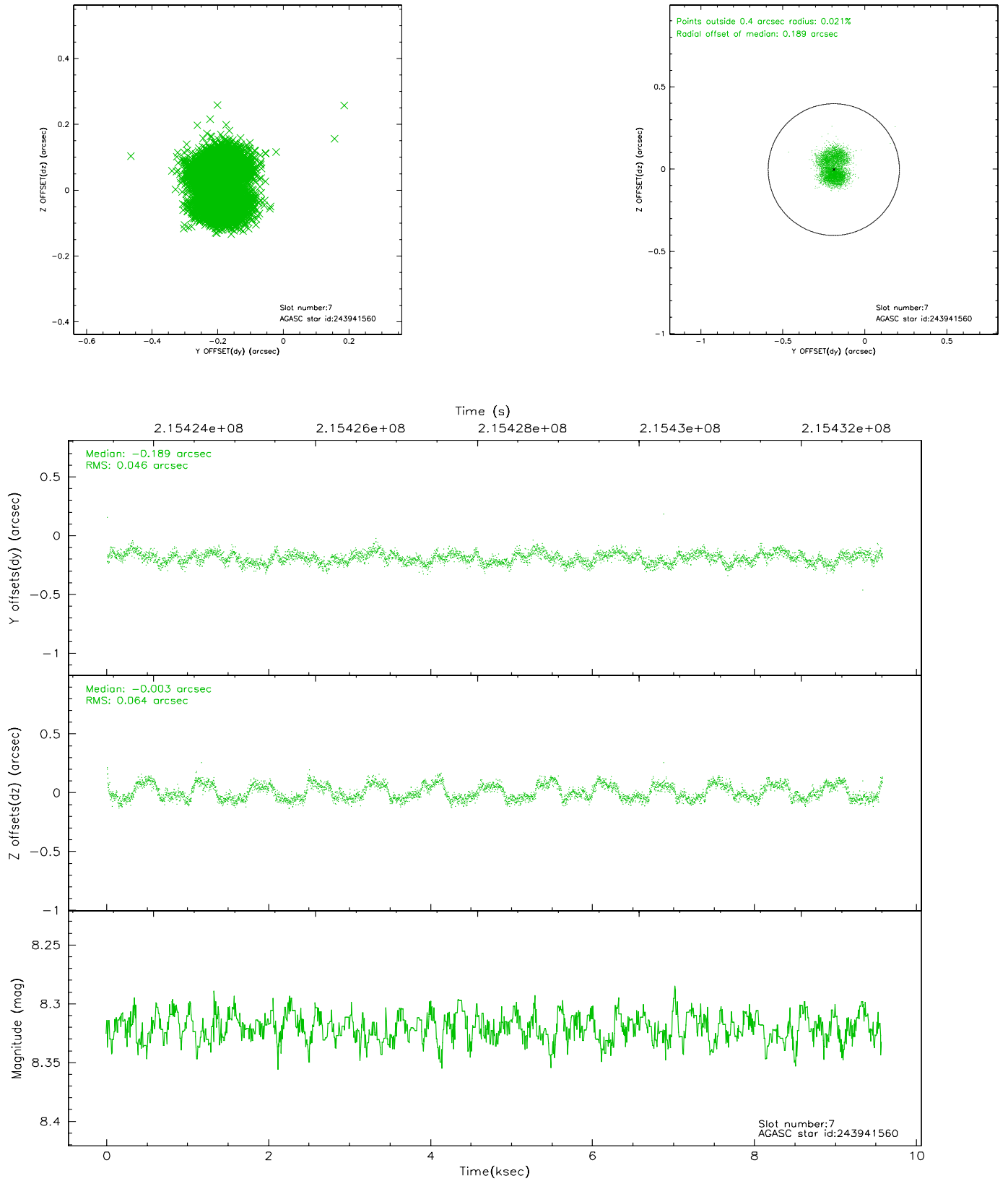
2.4.3 Slot 5



2.4.4 Slot 6

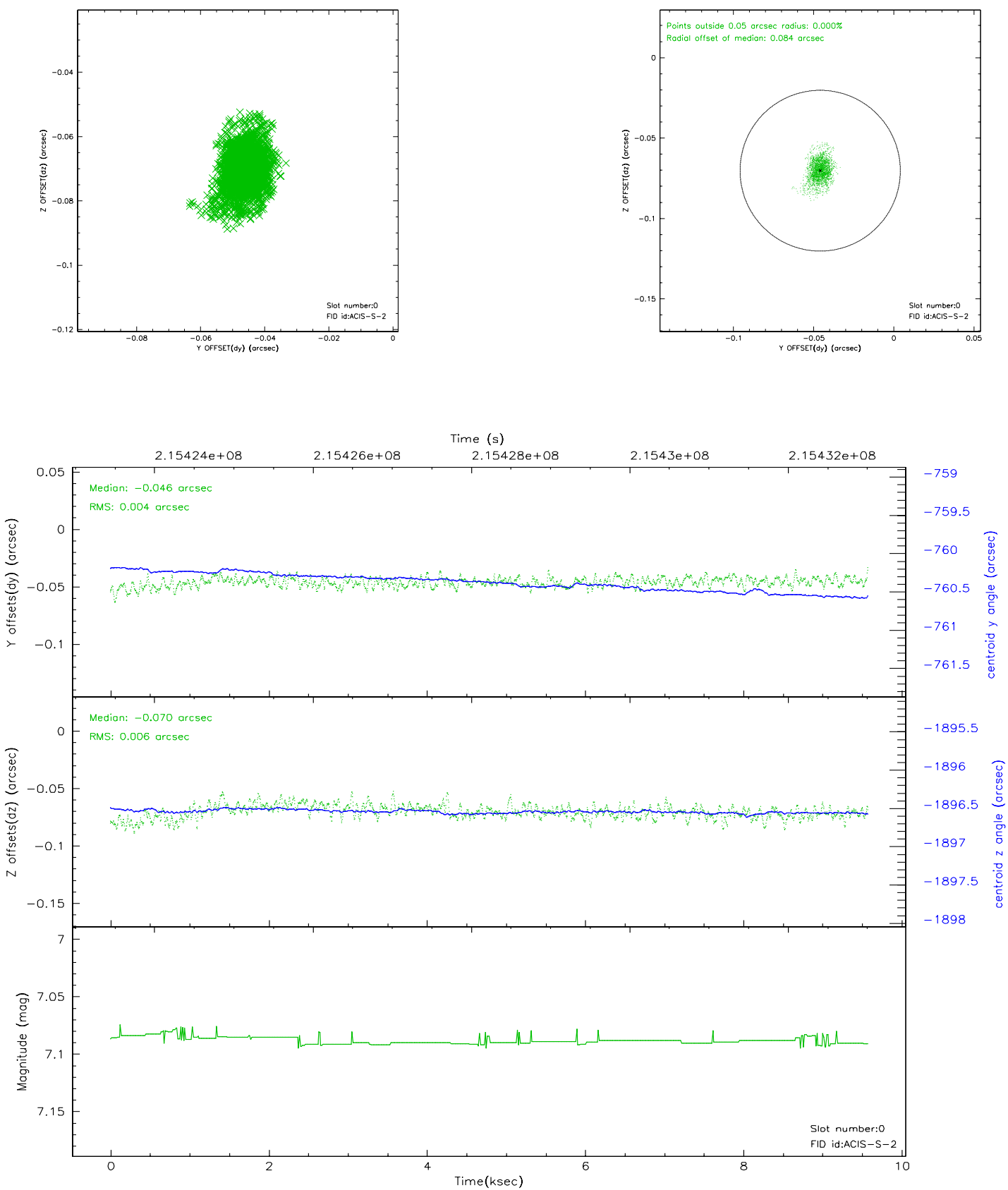


2.4.5 Slot 7

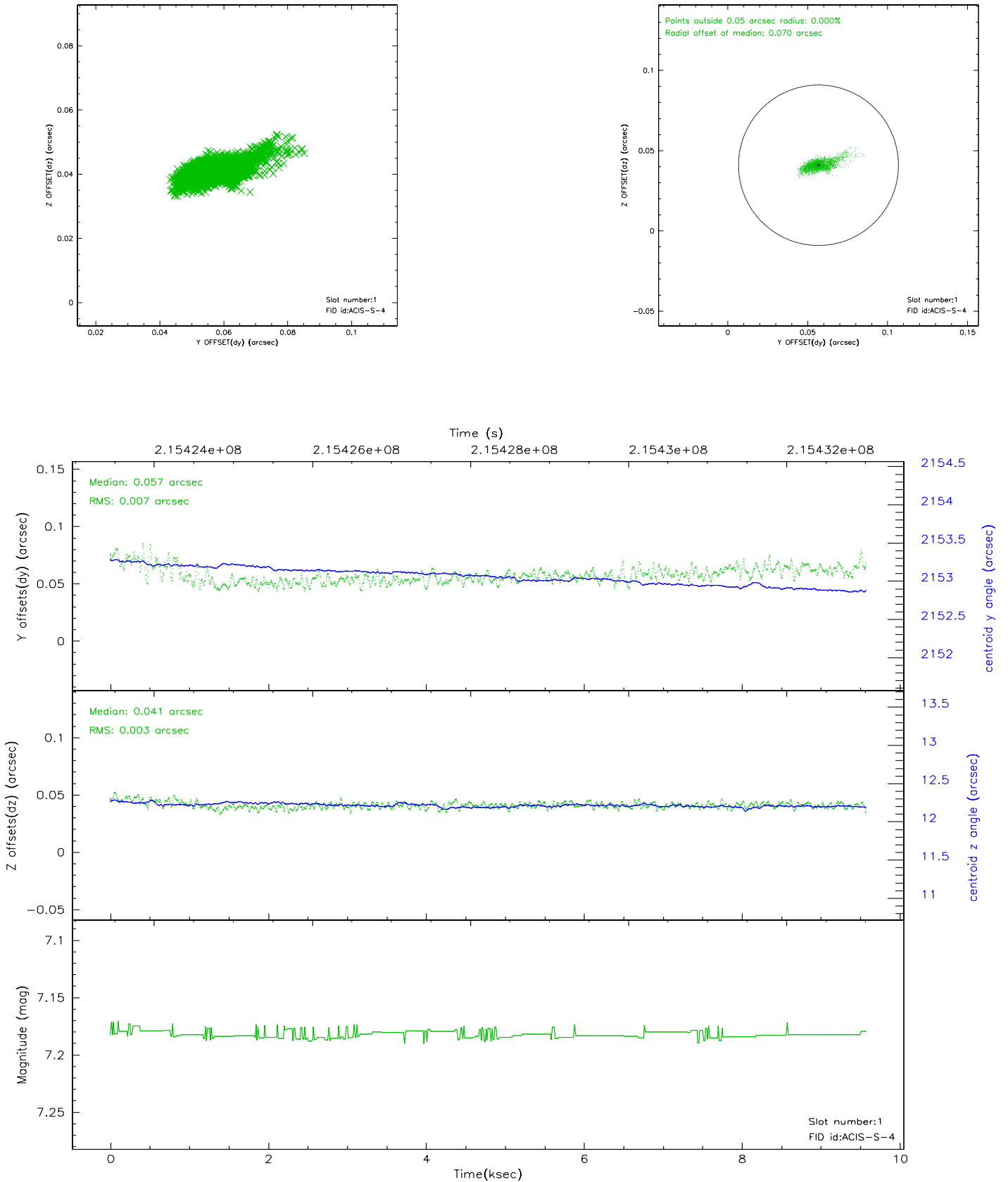


2.5 FID Slots

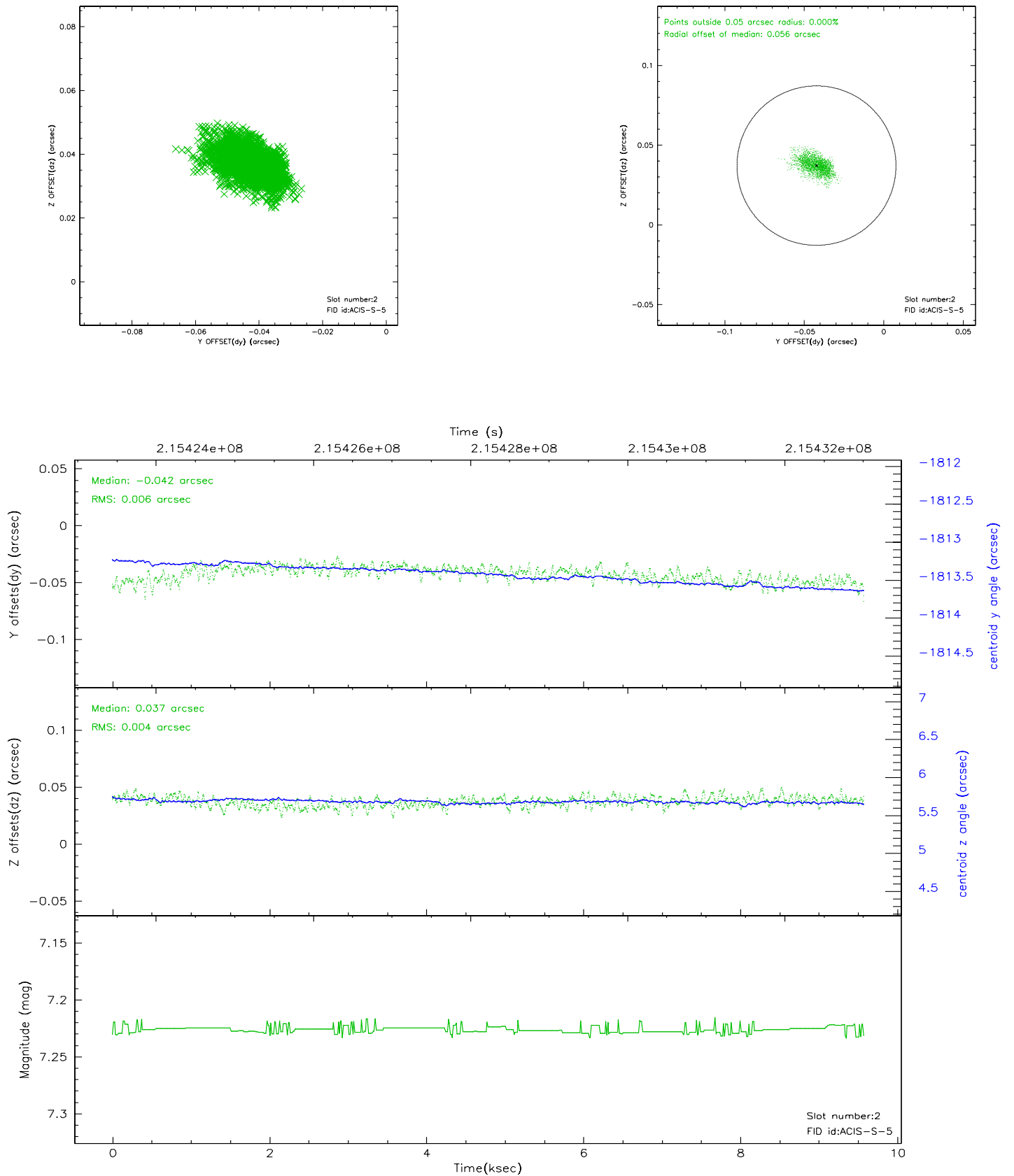
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

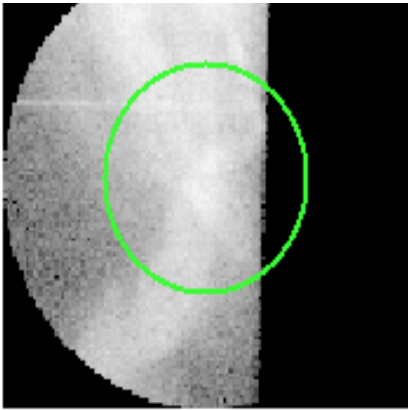


3 Gratings

3.1 HEG Arm



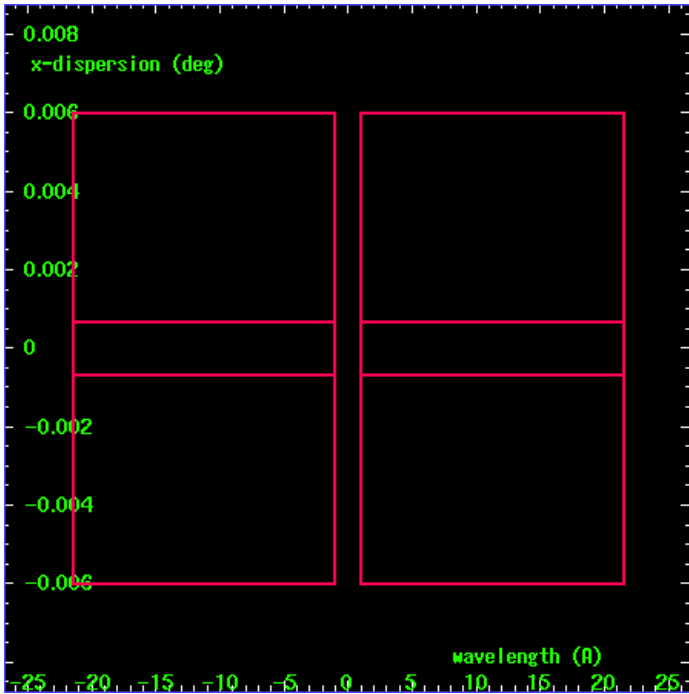
HEG Order Sort 123



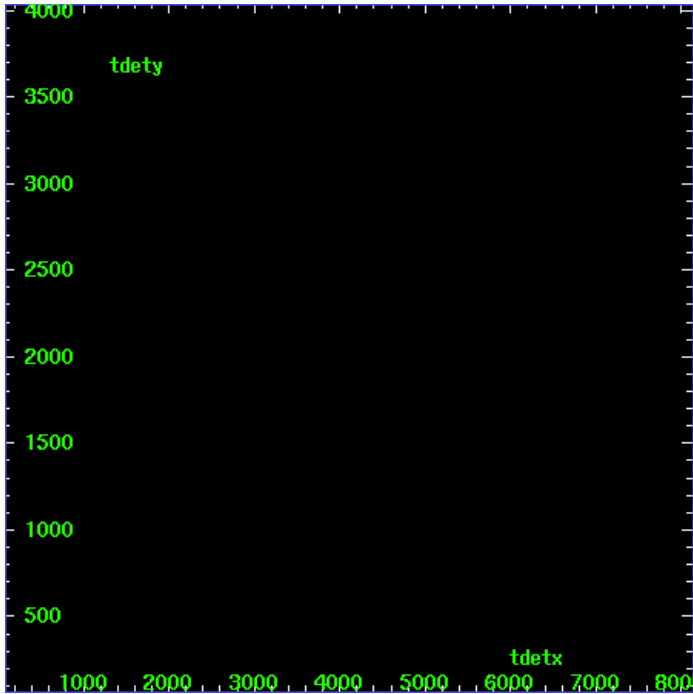
HEG Zero Order



HEG Order Sort ALL

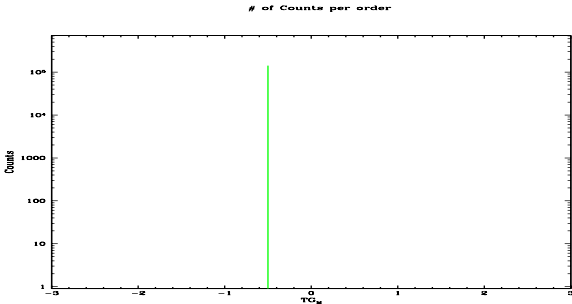


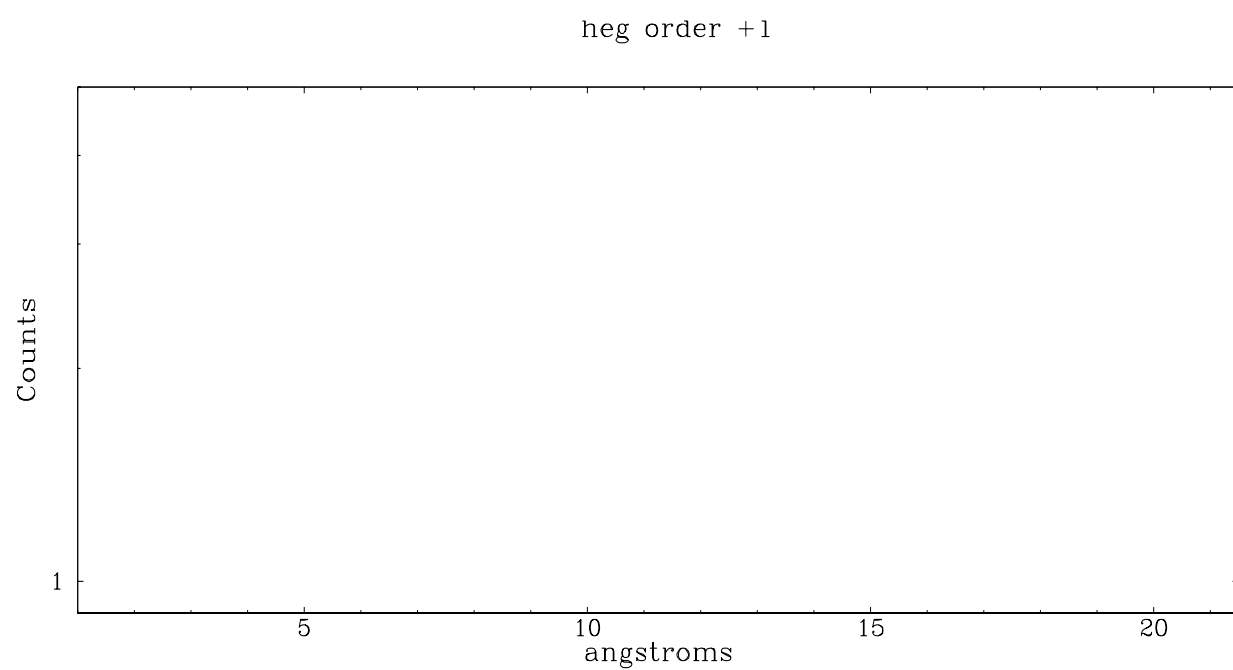
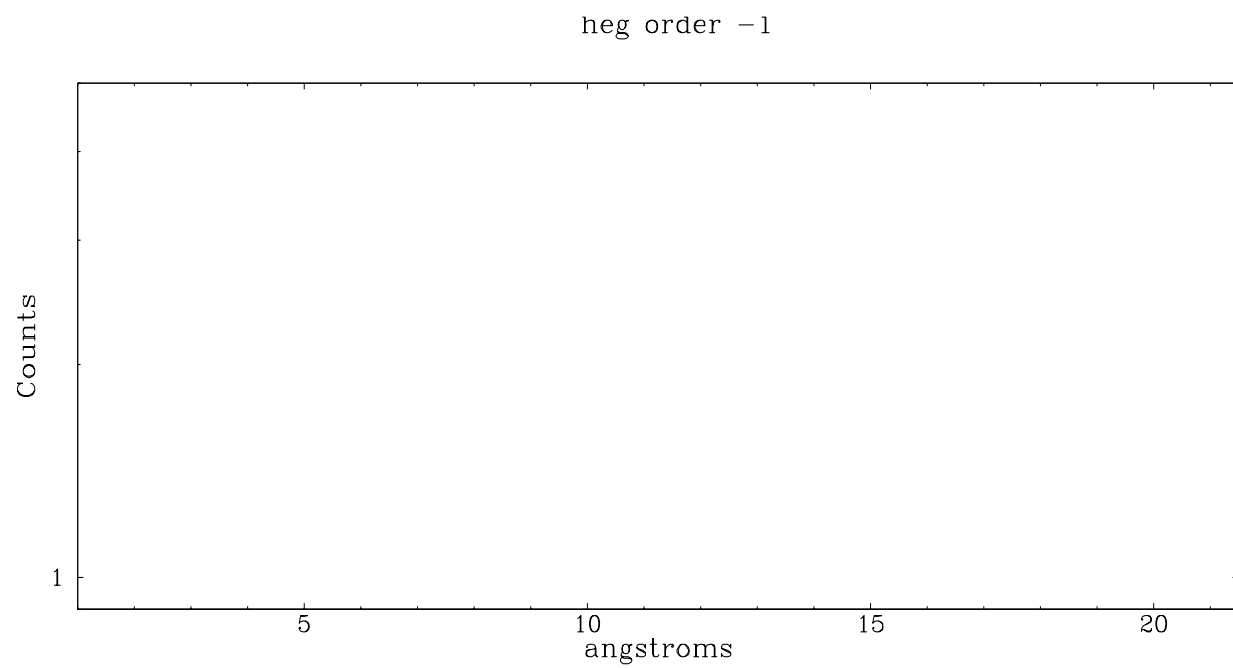
Spot Image HEG



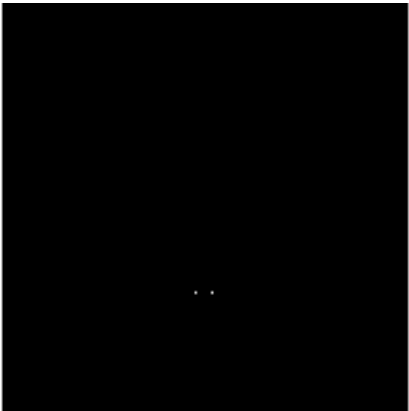
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	141714	0	0	0

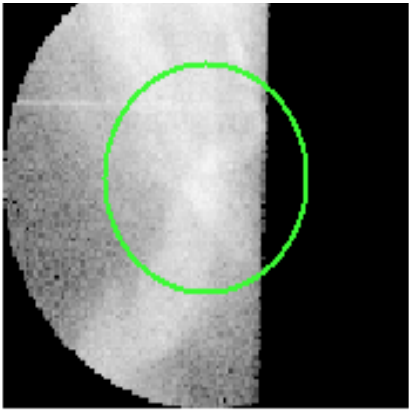




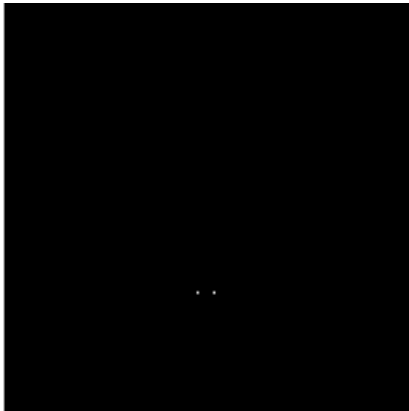
3.2 MEG Arm



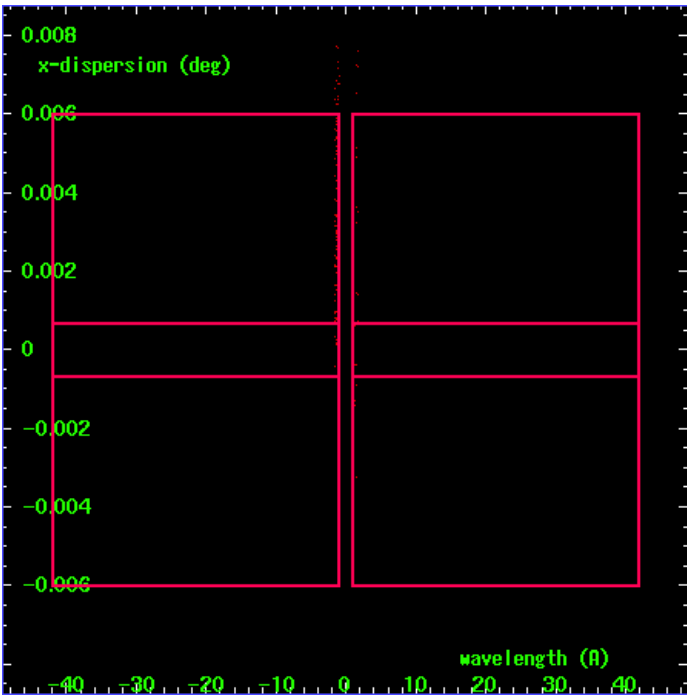
MEG Order Sort 123



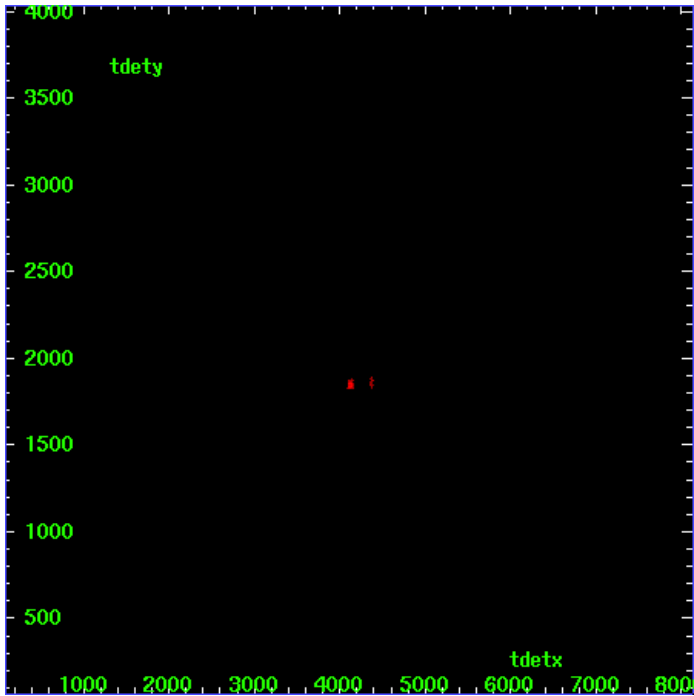
MEG Zero Order



MEG Order Sort ALL

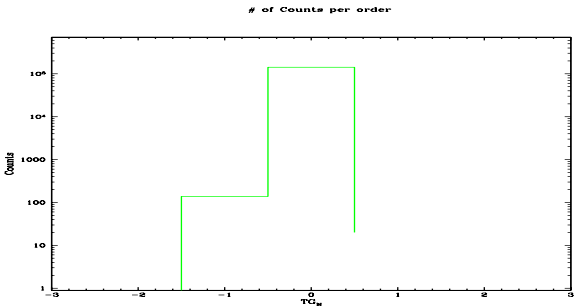


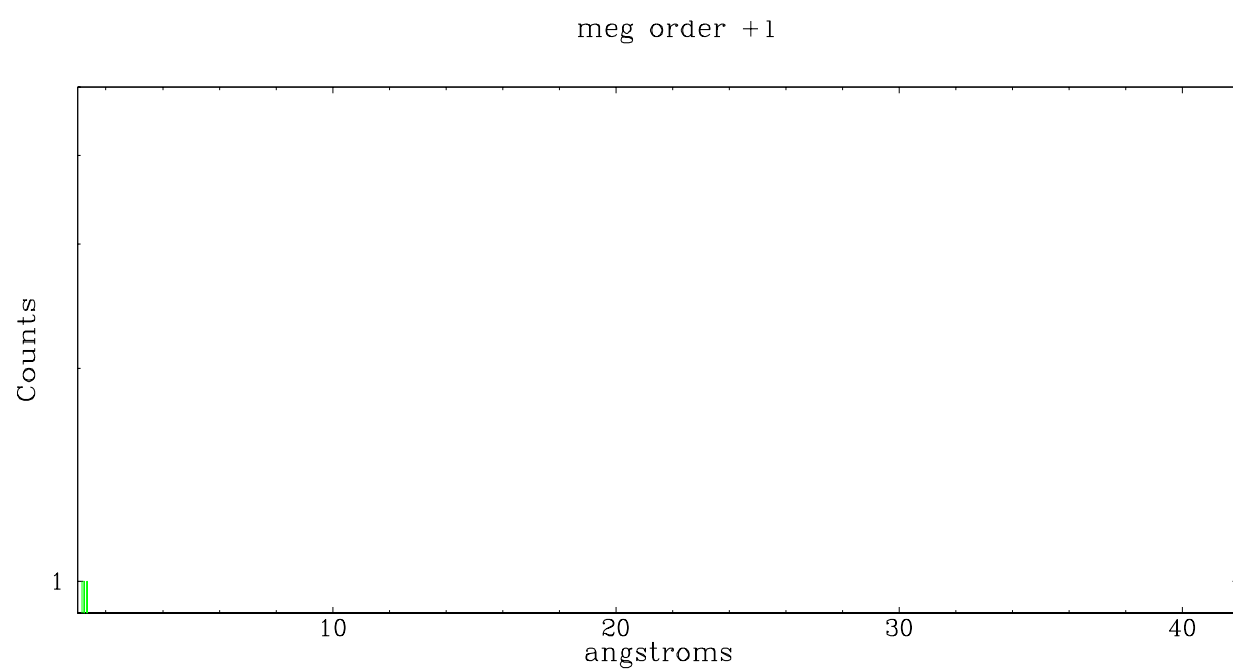
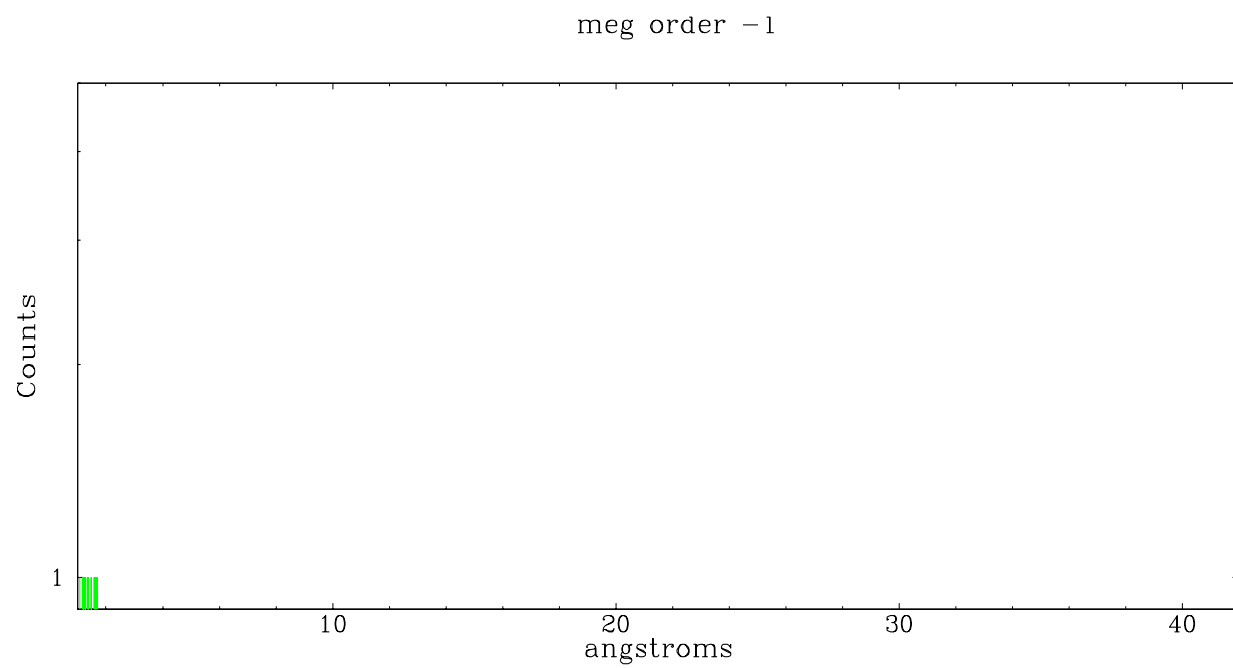
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	139	141714	20	0	0





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.04.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.578

A.2 Comments