

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6444 - L2 Version 2  
Chandra X-Ray Center

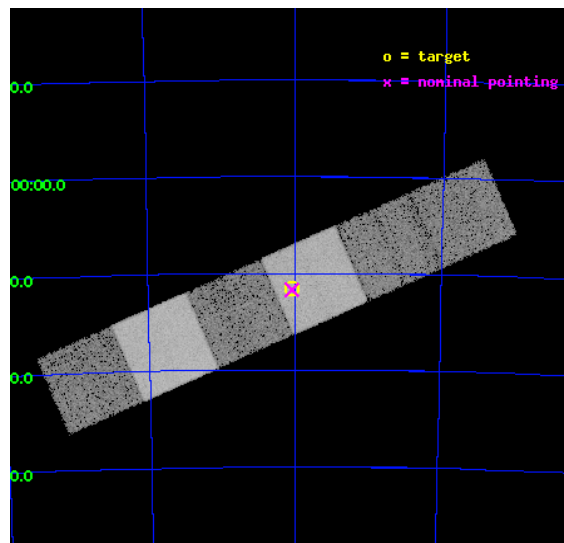
L2 Processing Date : Mar 30 2012

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# 1 Front

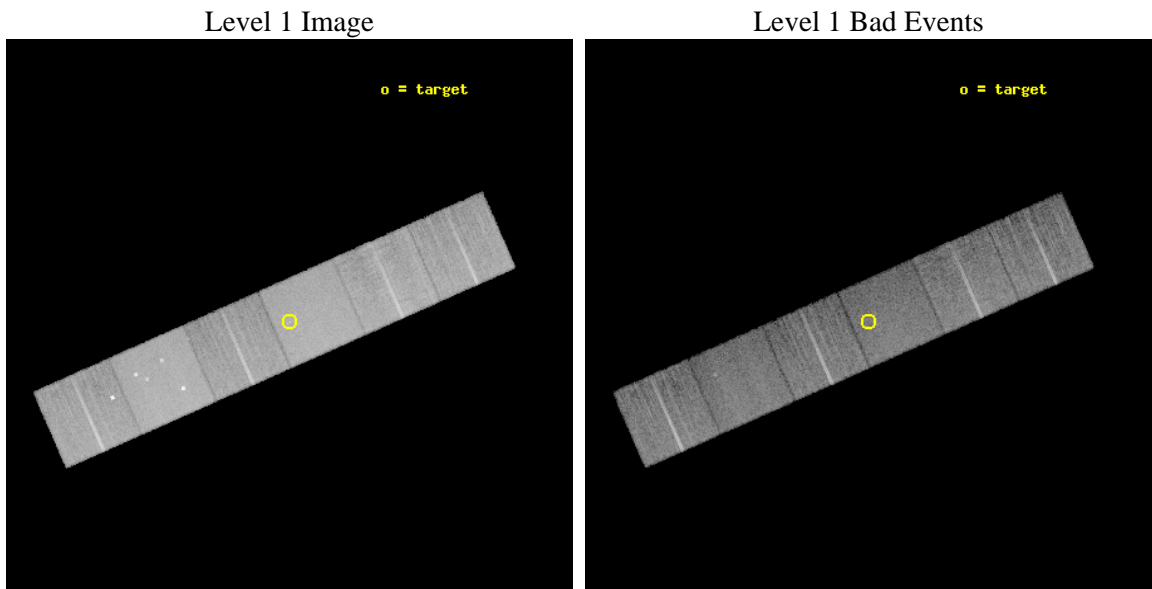
seq_num	200418	Sequence number
obs_id	6444	Observation id
title	Young Stellar Objects in the epsilon Chamaeleontis Group: Probing Proto-planetary Disk Systems in the HD 102437 Field.	Proposal title
observer	Prof Claude Canizares	Principal investigator
object	HD104237A (DX Cha)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.02125	Observer's specified target RA [deg]
dec_targ	-78.192944	Observer's specified target Dec [deg]
ra_nom	180.02368165571	Nominal RA [deg]
dec_nom	-78.194983472767	Nominal Dec [deg]
roll_nom	336.15902361292	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12726.39995259	Sum of GTIs [s]
livetime	12565.250613473	Livetime [s]
ontime4	12726.39995259	Sum of GTIs [s]
ontime5	12726.39995259	Sum of GTIs [s]
ontime6	12726.39995259	Sum of GTIs [s]
ontime7	12726.39995259	Sum of GTIs [s]
ontime8	12726.39995259	Sum of GTIs [s]
ontime9	12726.39995259	Sum of GTIs [s]
l2events	180686	Number of level 2 events



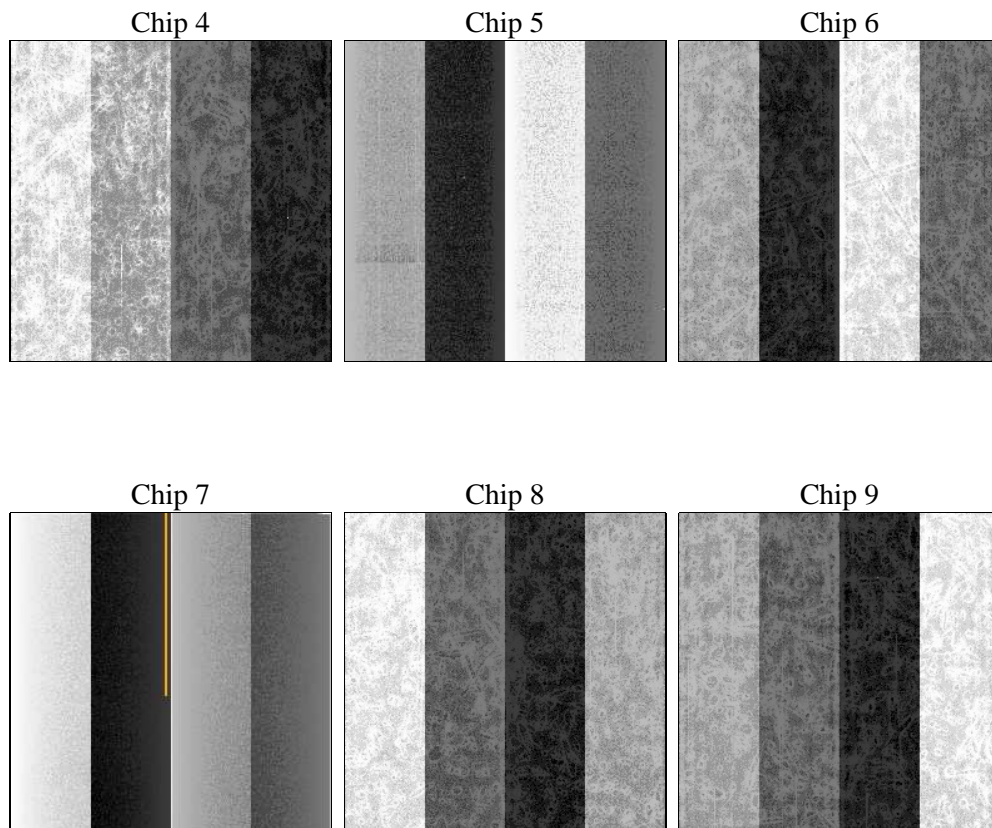
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12576.452000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	12726.39995259	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	12726.39995259	Sum of GTIs [s]
date	2012-03-30T05:21:26	Date and time of file creation	ontime5	12726.39995259	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12726.39995259	Sum of GTIs [s]
			ontime7	12726.39995259	Sum of GTIs [s]
			ontime8	12726.39995259	Sum of GTIs [s]
			ontime9	12726.39995259	Sum of GTIs [s]
			l1events	873782	Number of level 1 events

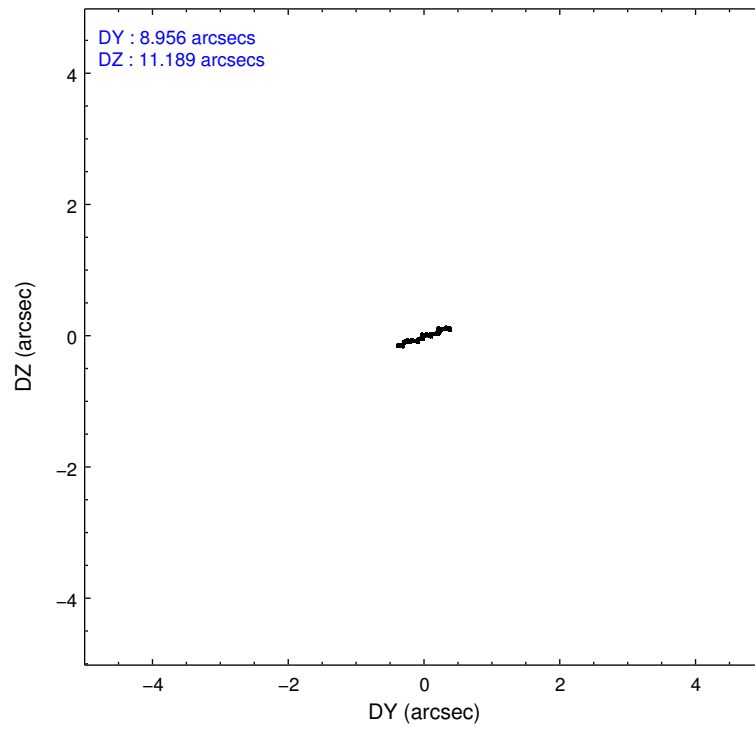
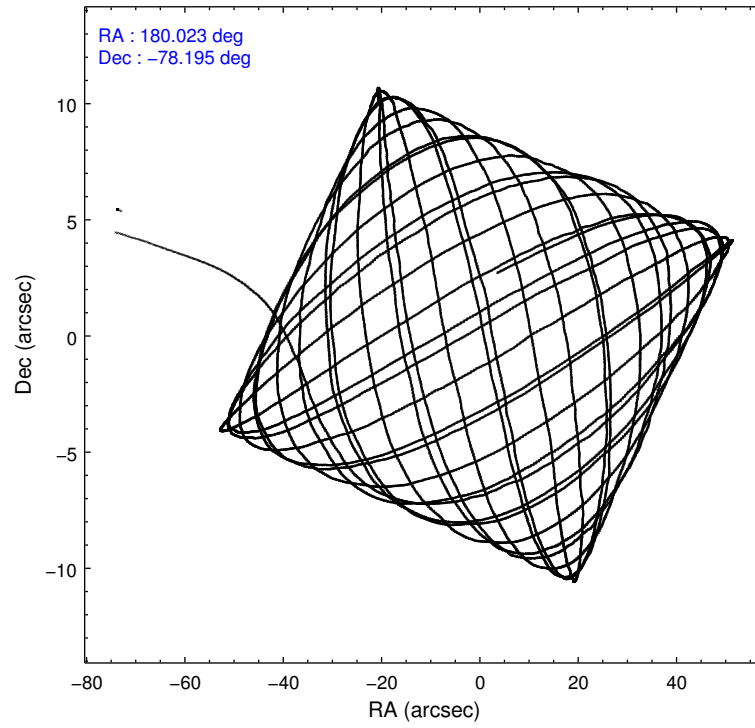
### 2.1.4 Events

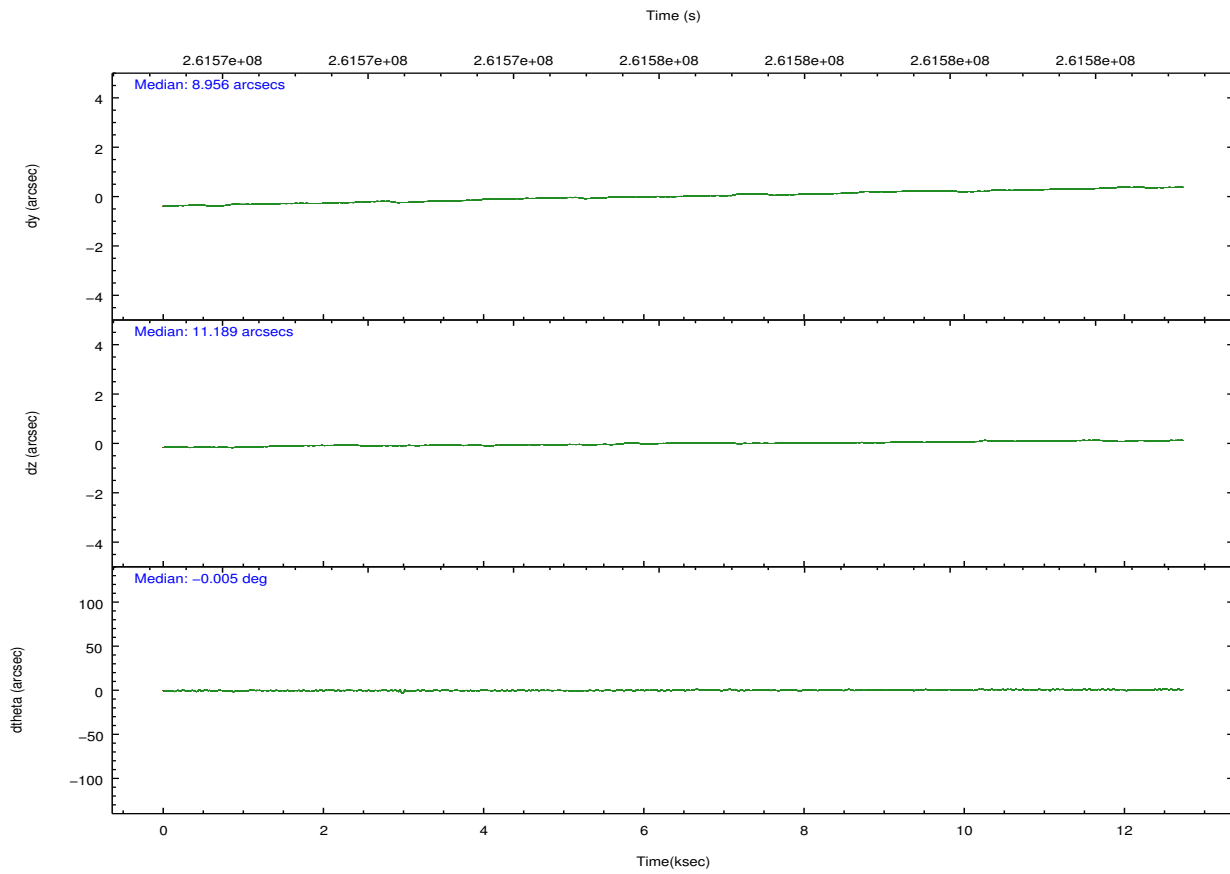
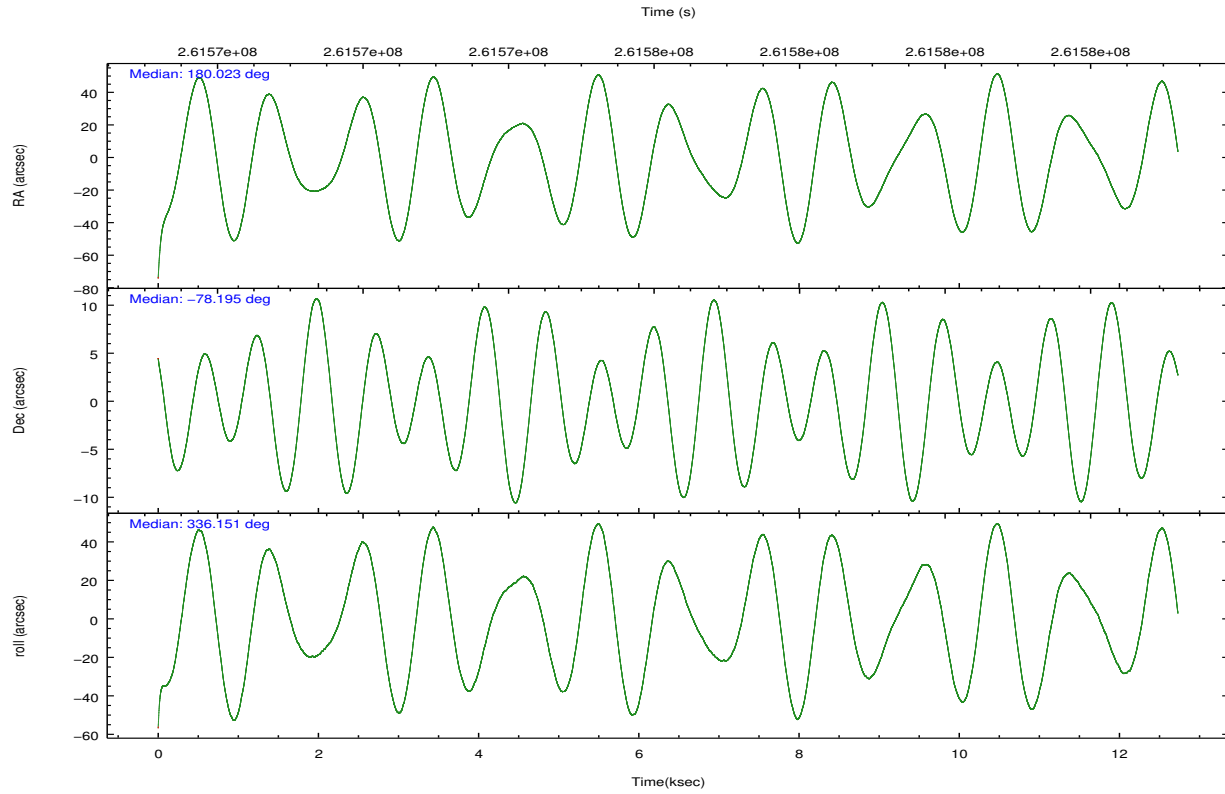
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	137156	182967	119241	161831	150768	121819	grade 0 events	10545	9854	5564	5749	10012	5996
rejected events	119274	103898	105814	99119	120114	108290		7%	5%	4%	3%	6%	4%
rejected %	86%	56%	88%	61%	79%	88%	grade 1 events	155	232	63	169	100	76
								0%	0%	0%	0%	0%	0%
							grade 2 events	3195	25700	3066	13378	7588	2859
								2%	14%	2%	8%	5%	2%
							grade 3 events	1510	2992	1384	5814	3330	1428
								1%	1%	1%	3%	2%	1%
							grade 4 events	1463	2865	1322	5883	3059	1390
								1%	1%	1%	3%	2%	1%
							grade 5 events	5241	12735	5524	15400	7264	6055
								3%	6%	4%	9%	4%	4%
							grade 6 events	2430	43495	3069	36575	8968	2837
								1%	23%	2%	22%	5%	2%
							grade 7 events	112617	85094	99249	78863	110447	101178
								82%	46%	83%	48%	73%	83%

## 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	179.891363	180.0236816557143	Subarray requested	NONE	NONE
[deg] Pointing Dec	-78.198264	-78.19498347276726	Alternating exposures requested	N	N
[deg] Pointing Roll	335.872861	336.1590236129151	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	261569977.184000	261568307.98908			
Observation start date	2006-04-16T10:18:32	2006-04-16T09:51:47			
[s] Observation end time (MET)	261582554.184000	261582776.37725			
Observation end date	2006-04-16T13:48:09	2006-04-16T13:52:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



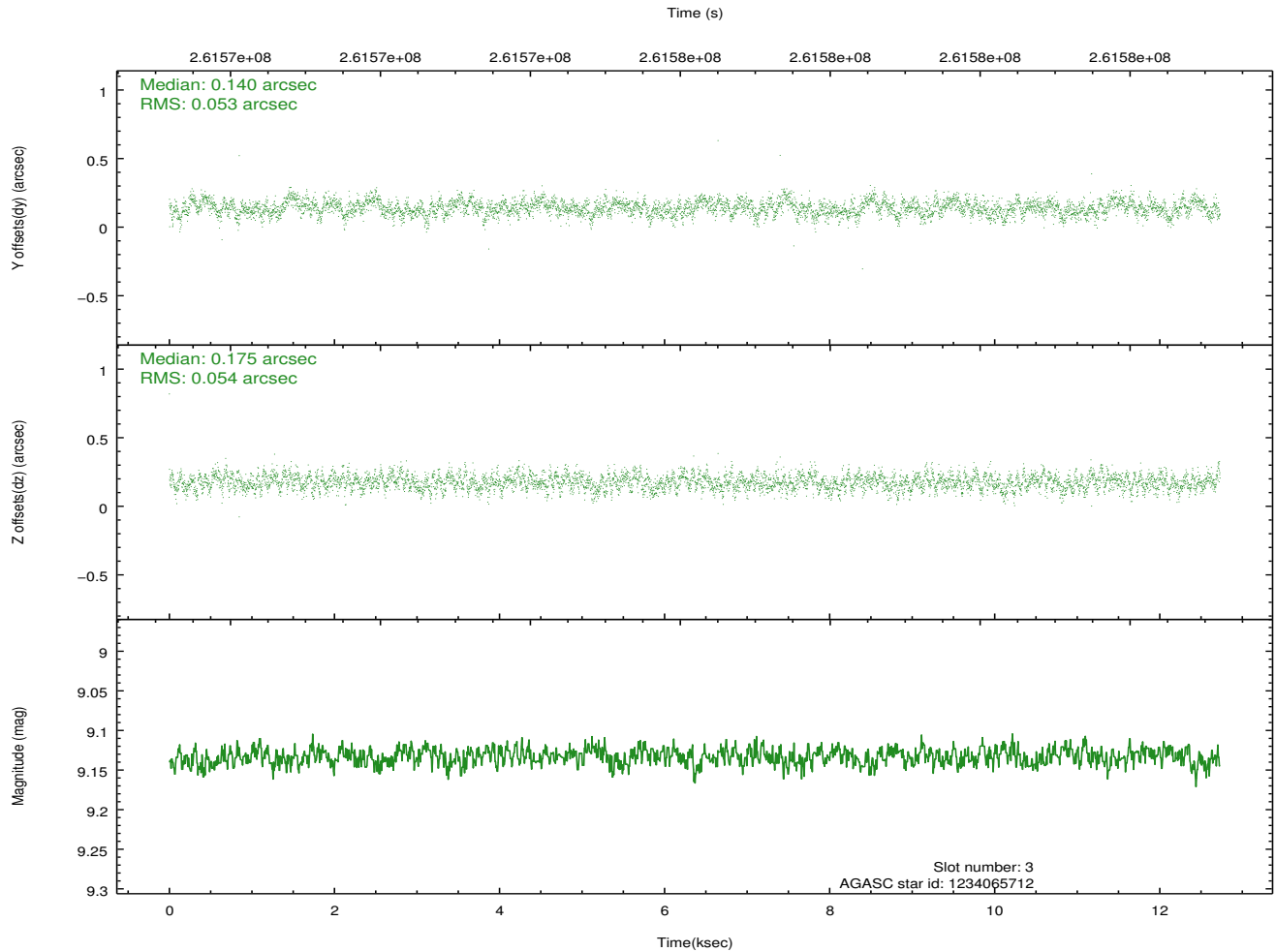
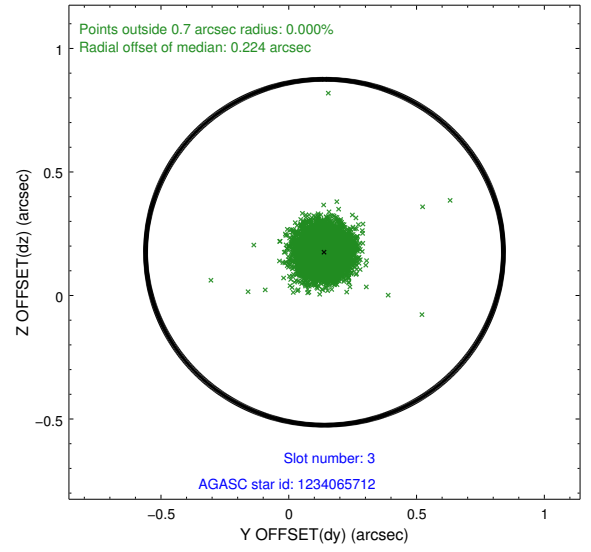
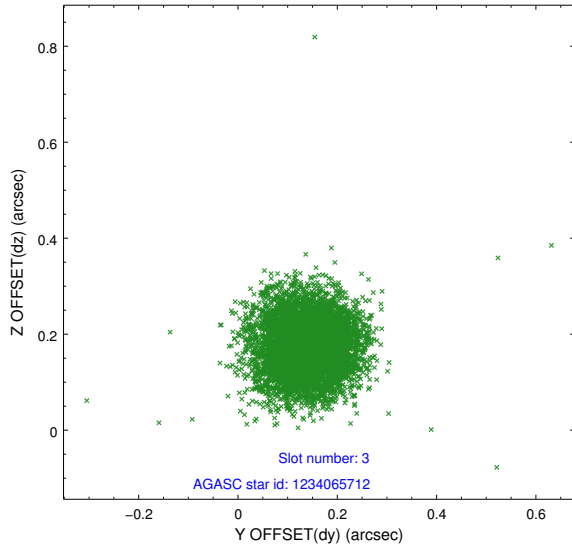


### Slot Statistics

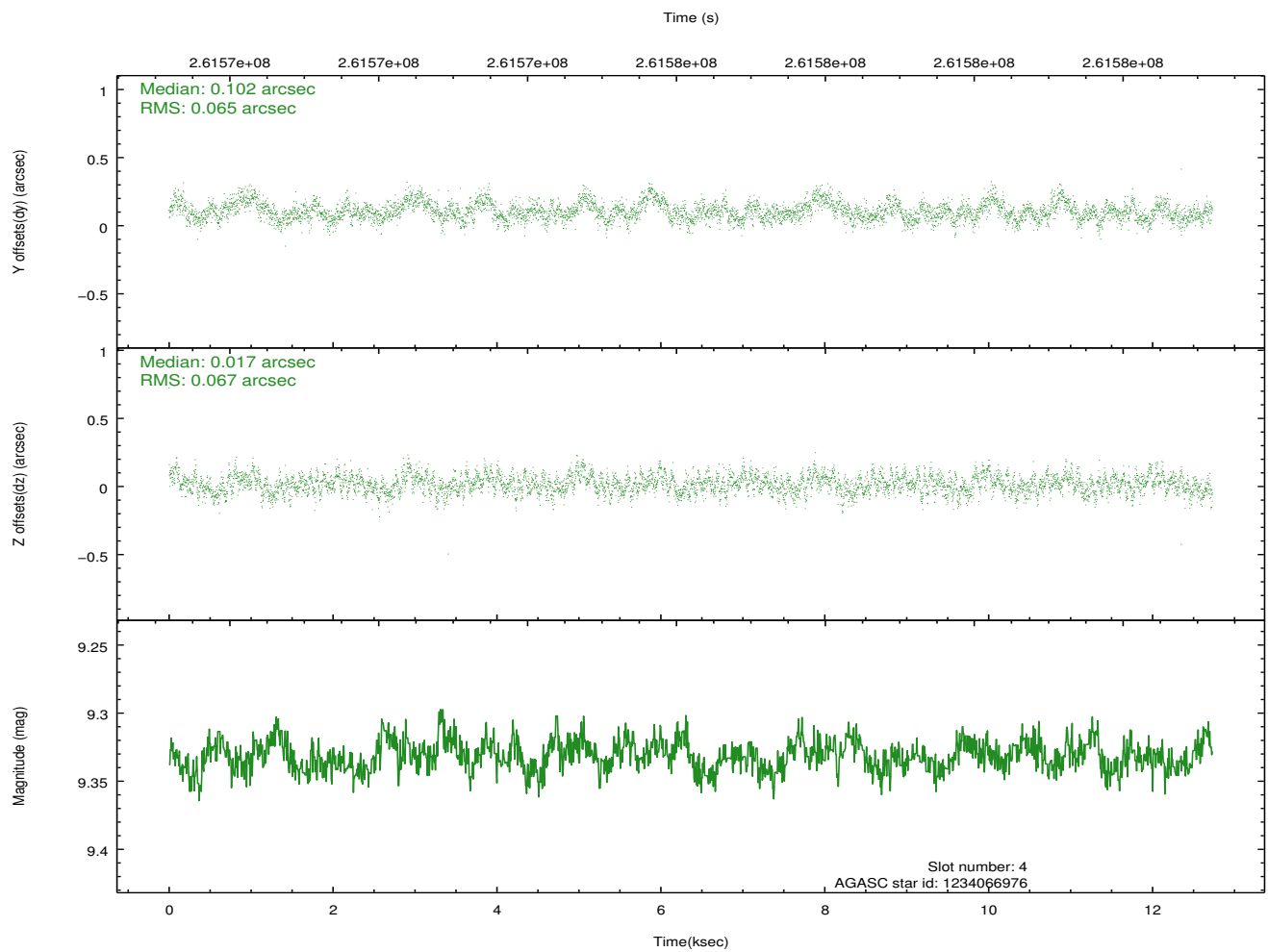
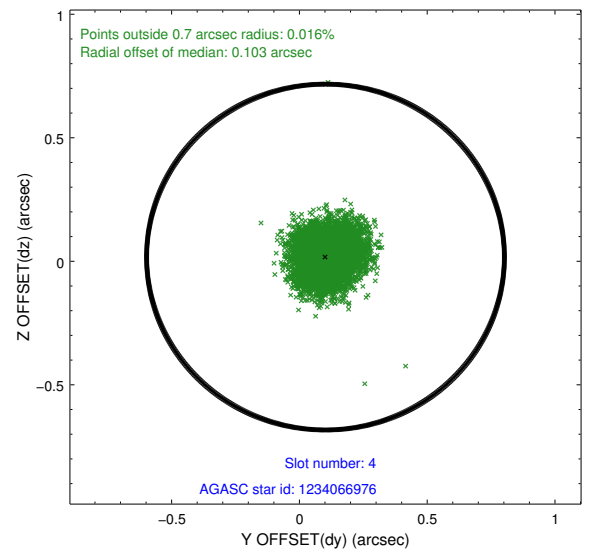
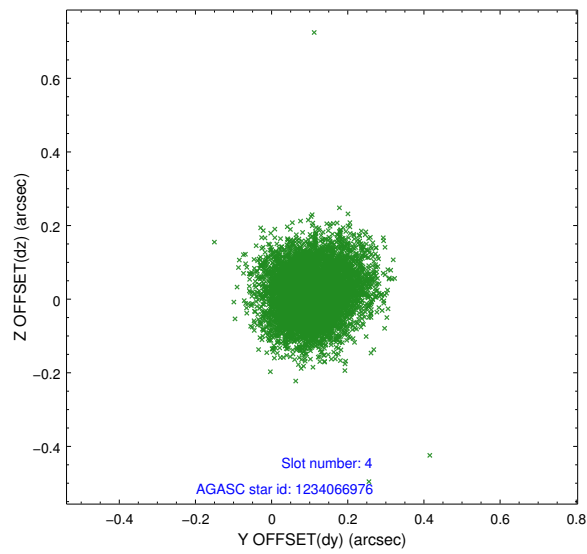
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	3105	-0.036	-0.017	0.009	0.015	0.000000	0.000000	-761.78	-1732.43
1	FID	ACIS-S-4	7.21	3106	0.143	0.022	0.011	0.018	0.000000	0.000000	2151.47	175.74
2	FID	ACIS-S-5	7.23	3105	-0.138	0.004	0.011	0.017	0.000000	0.000000	-1814.26	169.77
3	GUIDE	1234065712	9.13	6207	0.140	0.175	0.079	0.128	176.768042	-78.442733	-1669.93	-1778.56
4	GUIDE	1234066976	9.33	6207	0.102	0.017	0.099	0.161	177.744129	-78.286175	-1290.52	-956.96
5	GUIDE	1234181360	7.81	6211	-0.108	0.042	0.083	0.133	181.773022	-78.741114	2014.39	-1262.51
6	GUIDE	1234188184	9.07	6210	-0.085	-0.316	0.102	0.158	182.228918	-77.688140	901.39	2376.08
7	GUIDE	1234704160	7.22	6209	-0.058	0.082	0.087	0.136	182.282049	-78.781313	2400.12	-1262.06

## 2.4 Star Slots

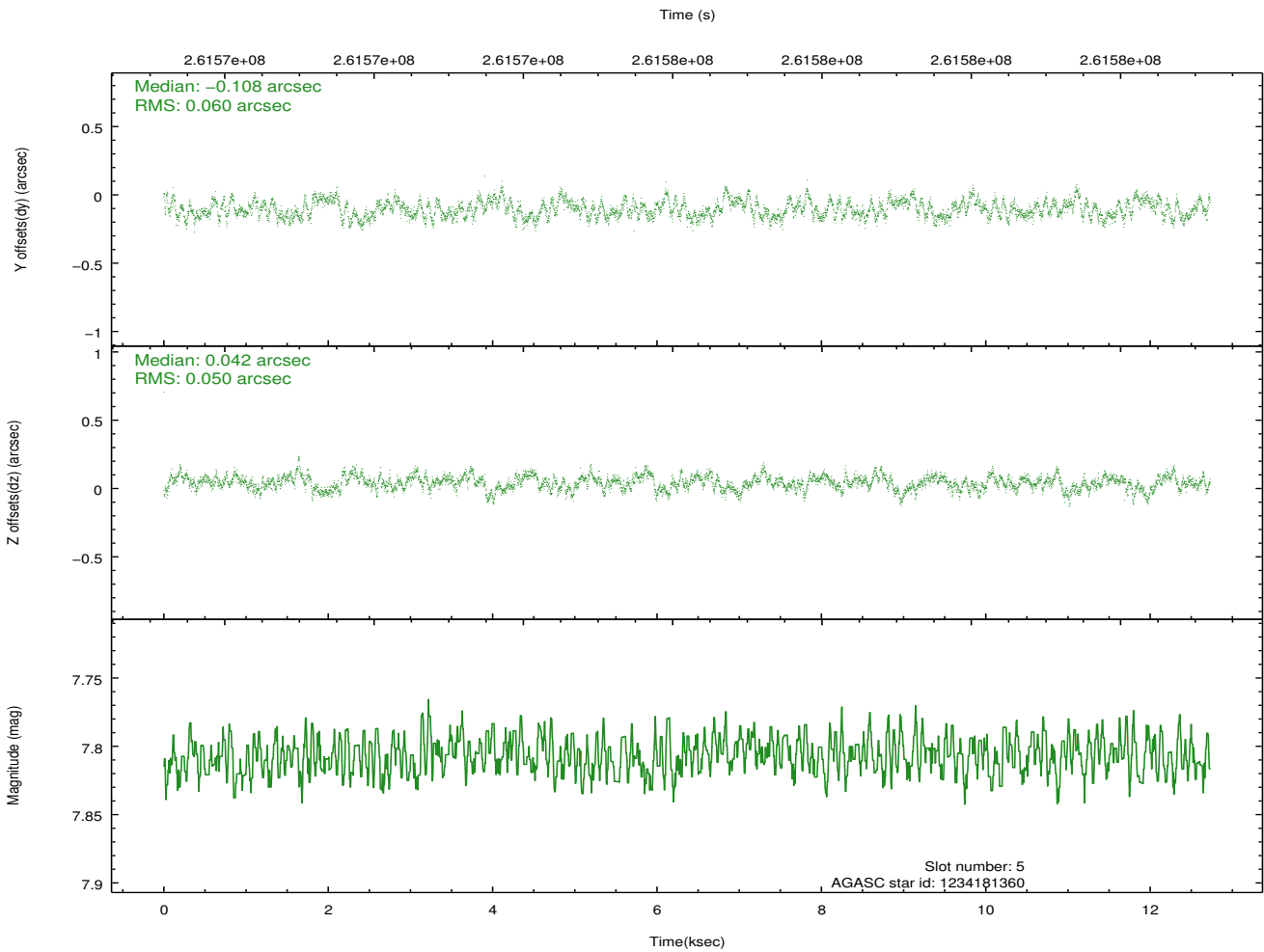
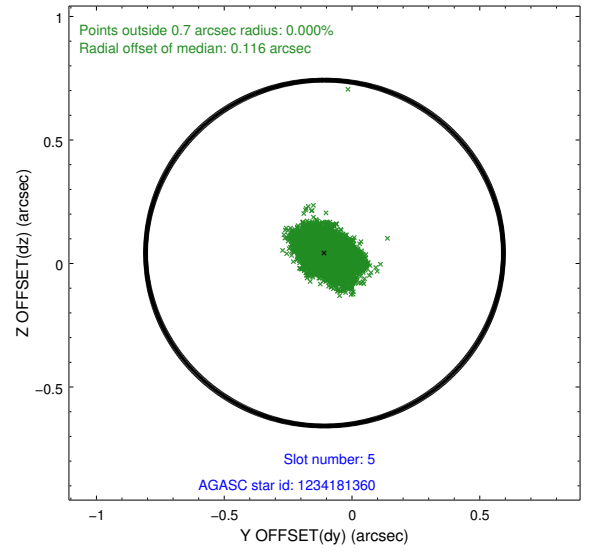
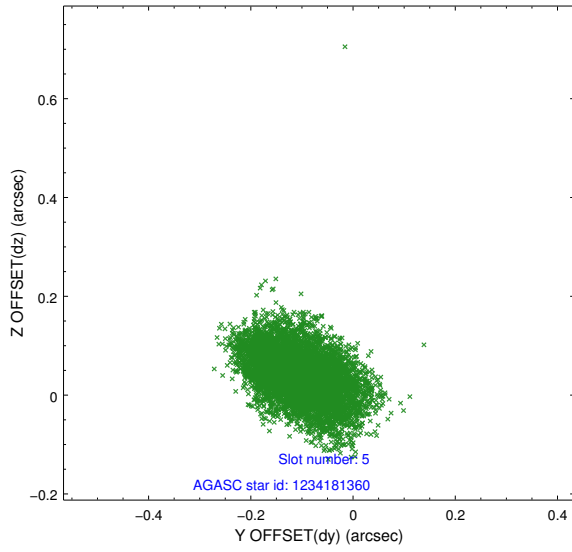
### 2.4.1 Slot 3



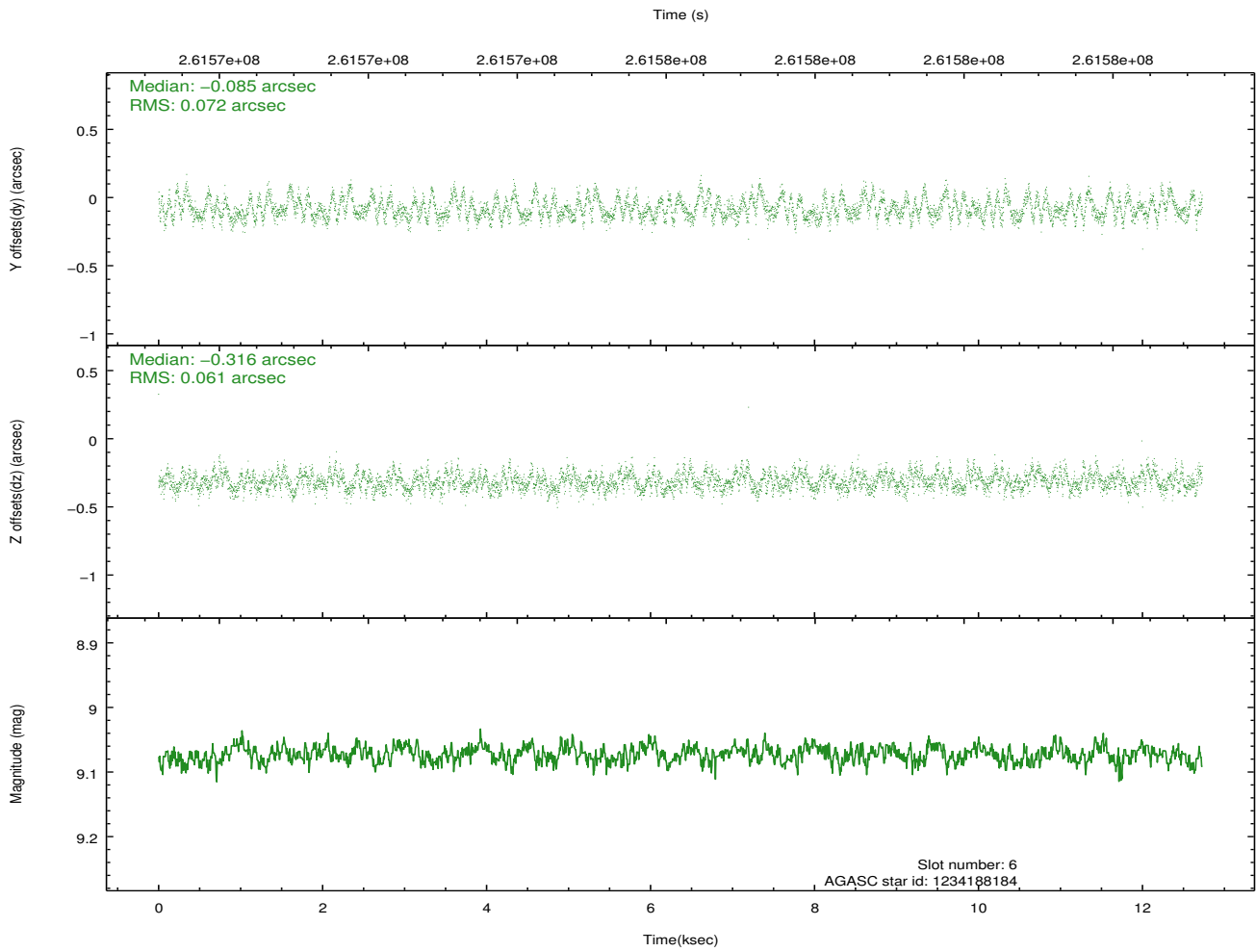
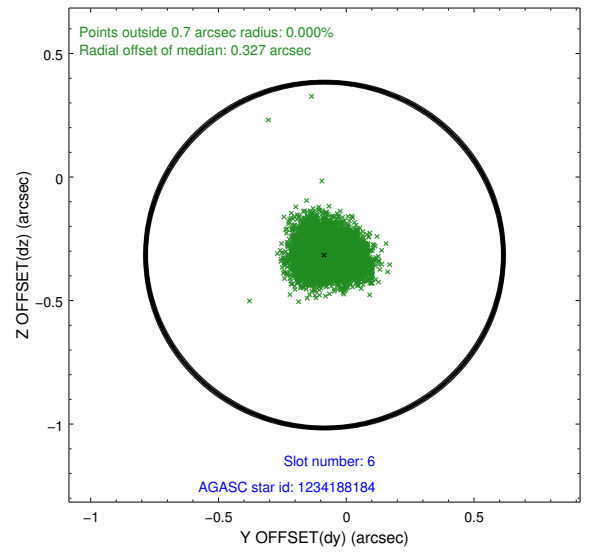
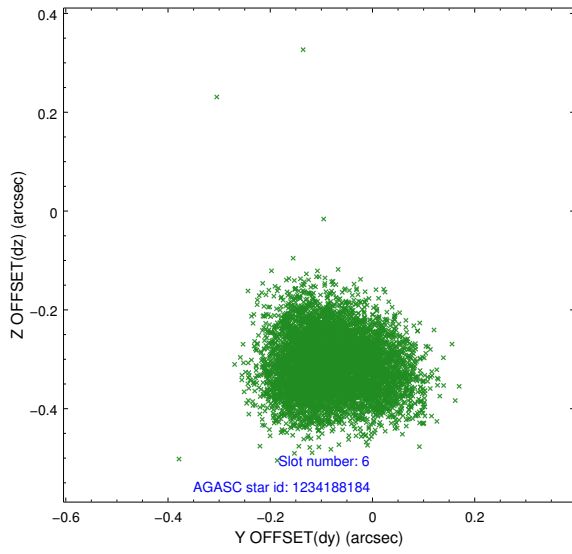
## 2.4.2 Slot 4



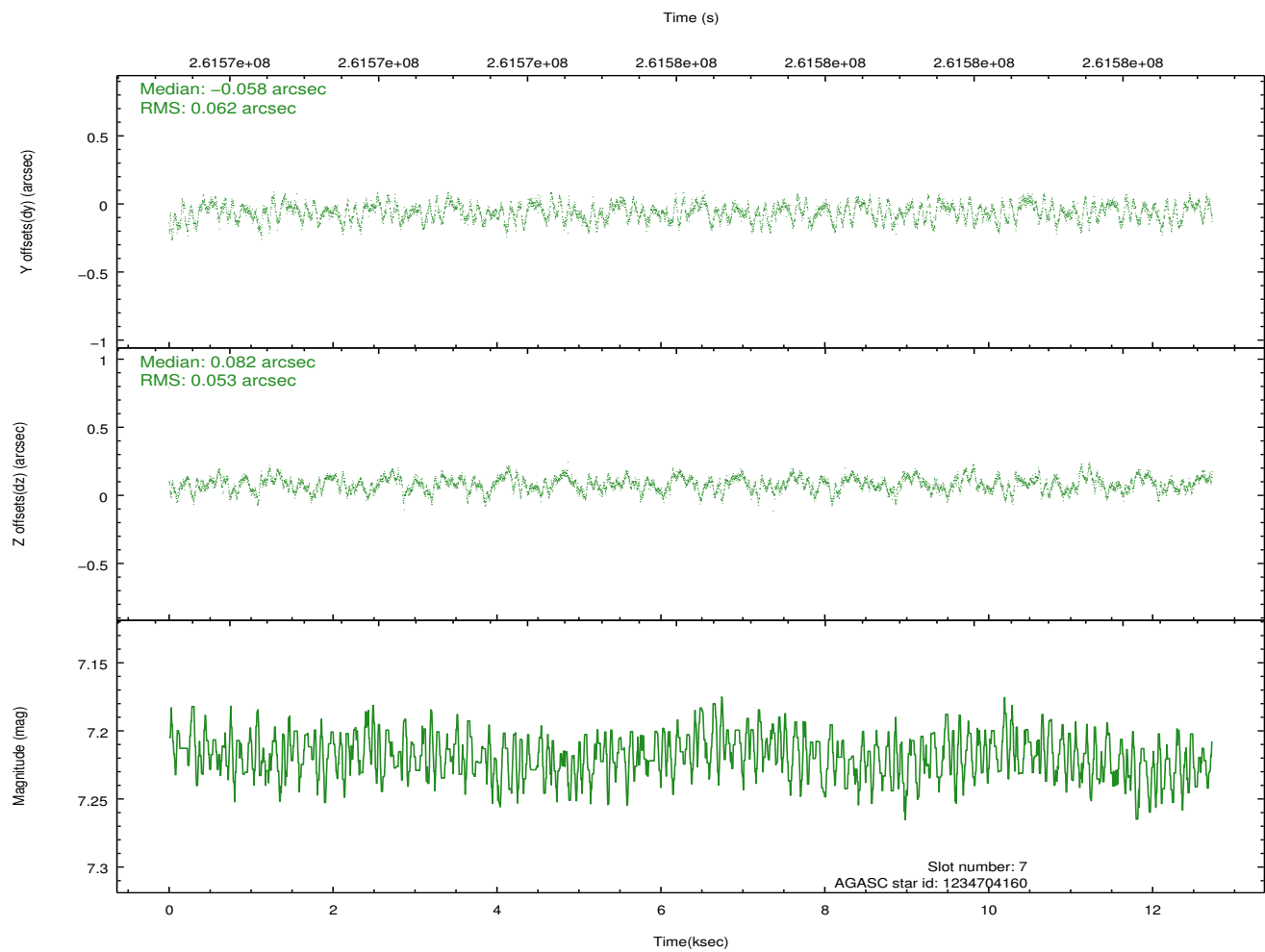
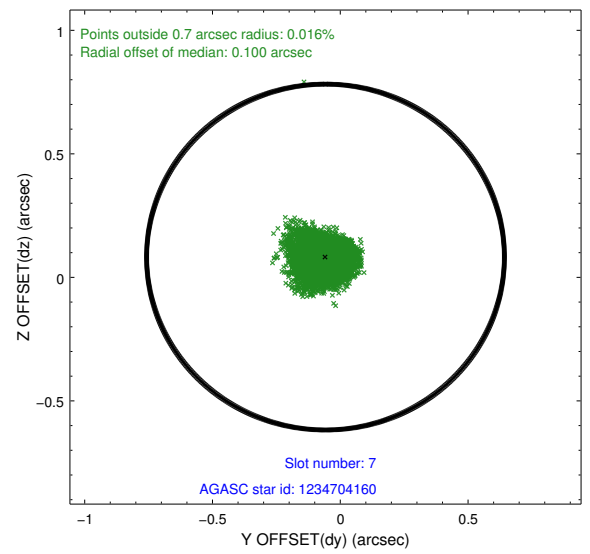
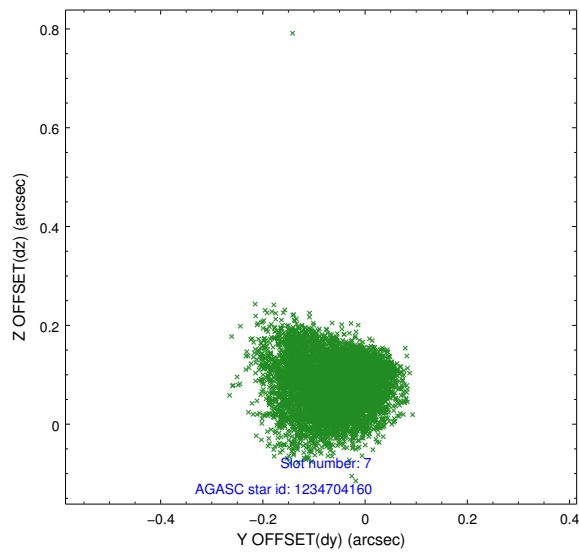
### 2.4.3 Slot 5



### 2.4.4 Slot 6

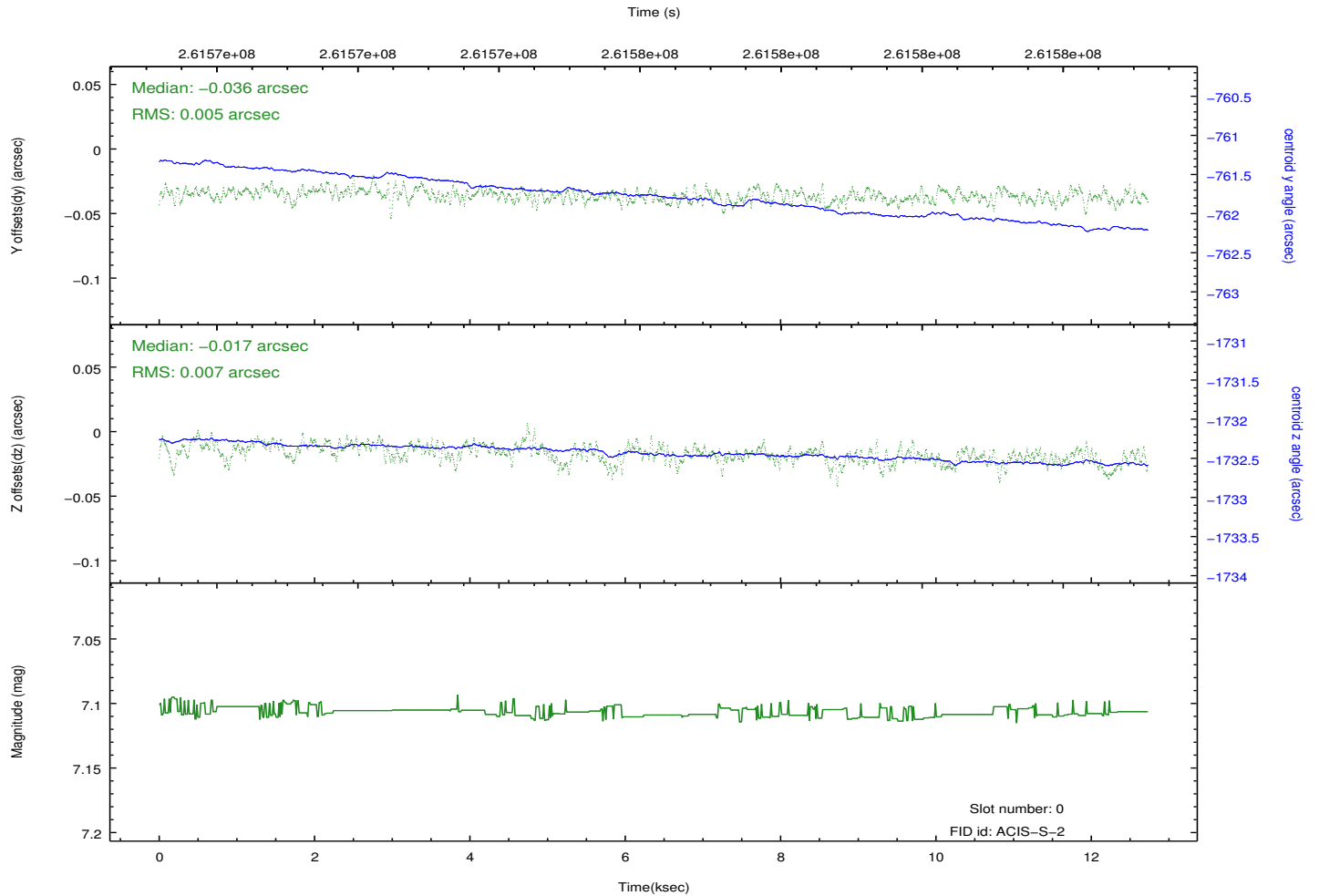
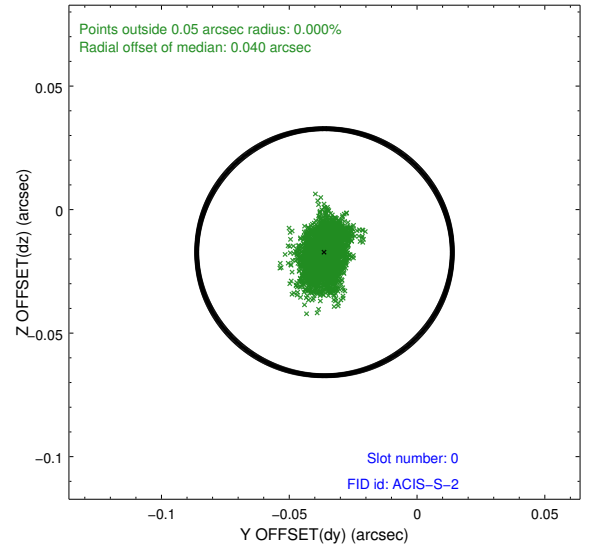
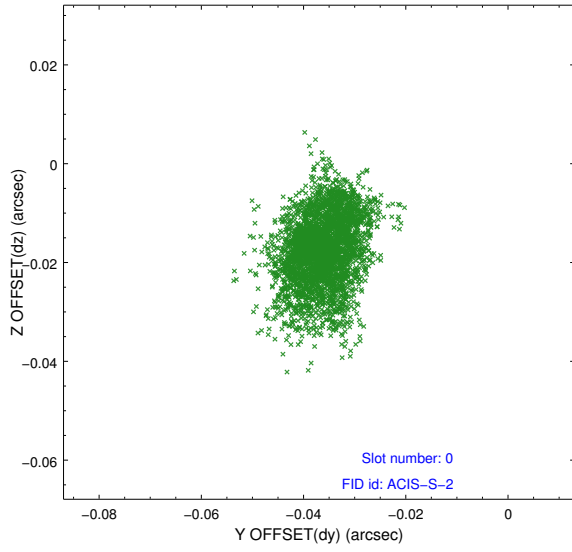


## 2.4.5 Slot 7

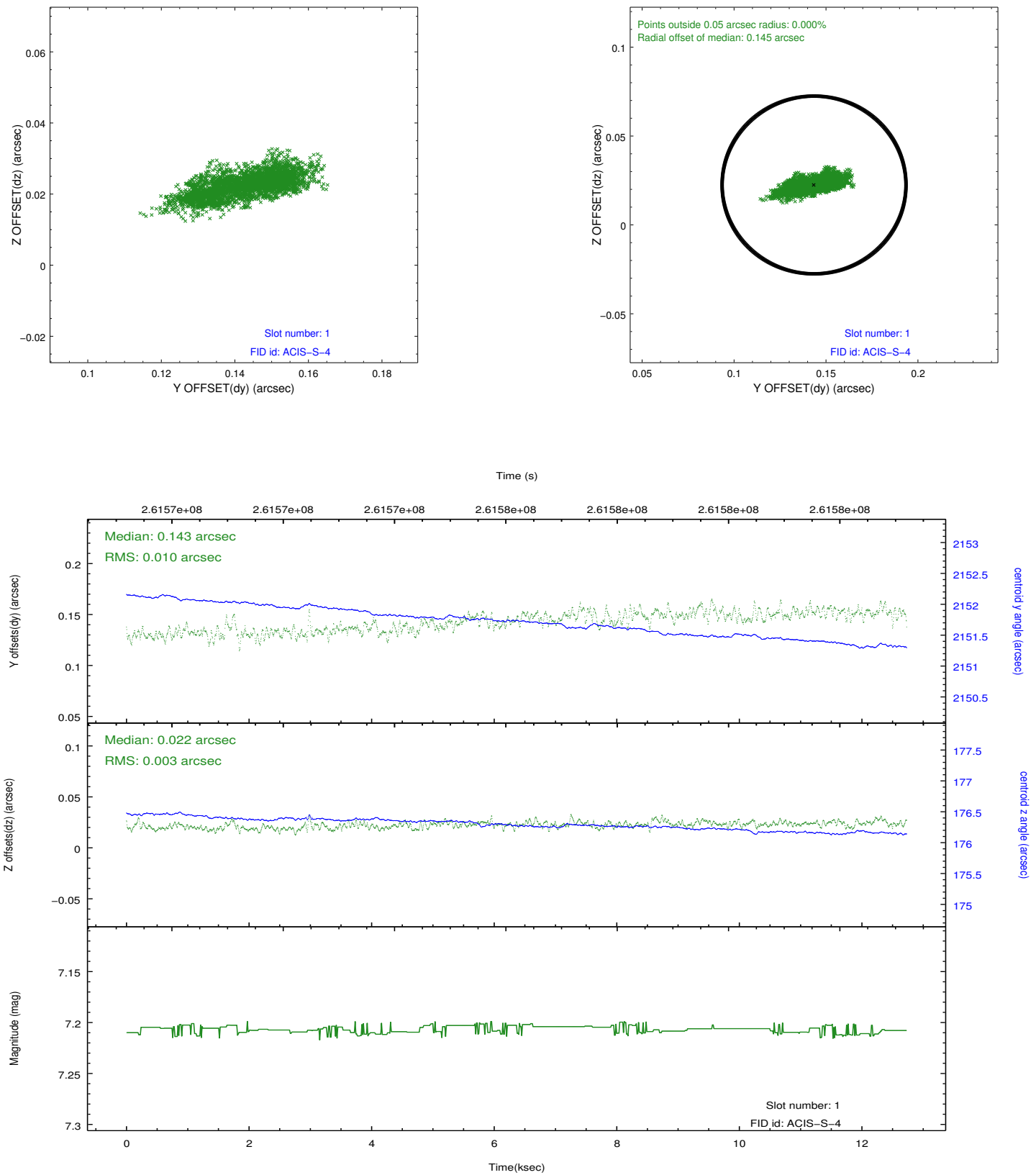


## 2.5 FID Slots

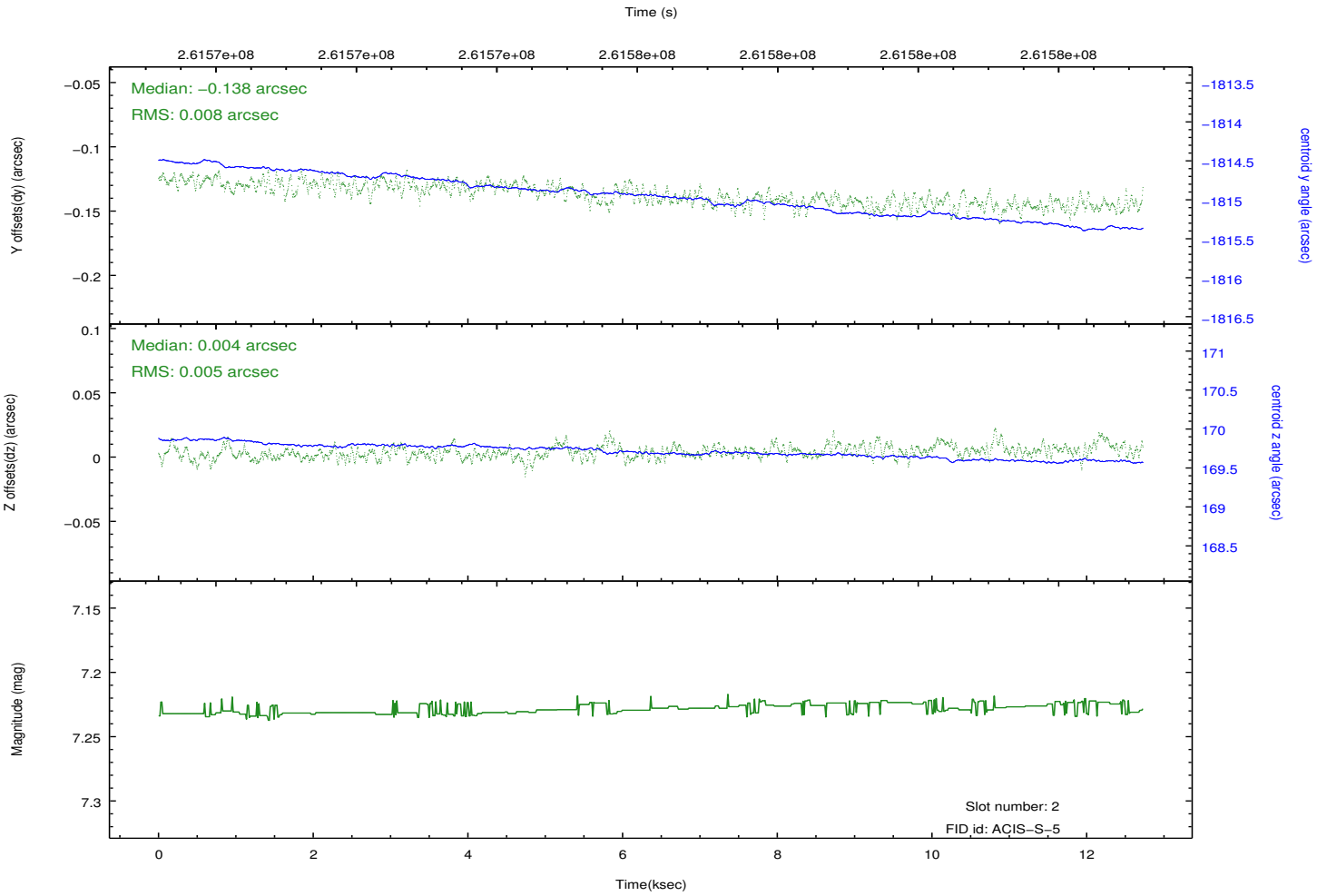
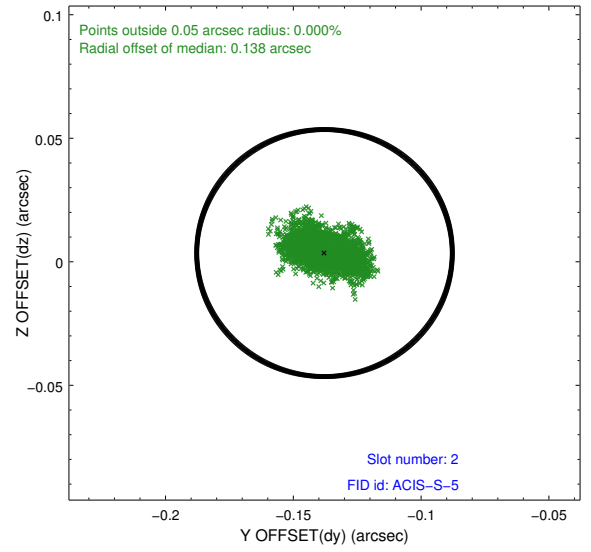
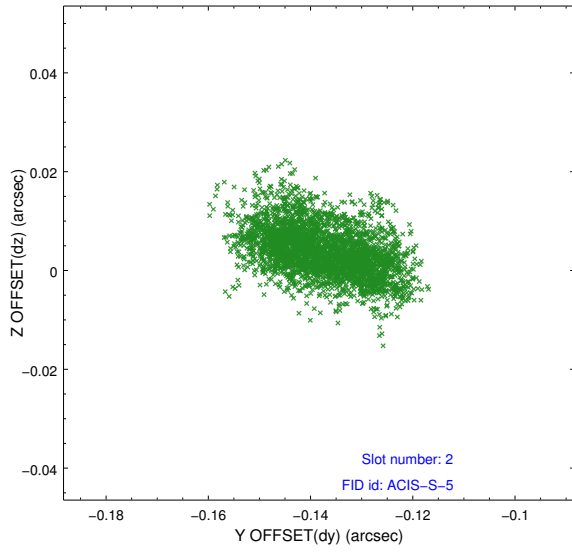
### 2.5.1 Slot 0



## 2.5.2 Slot 1

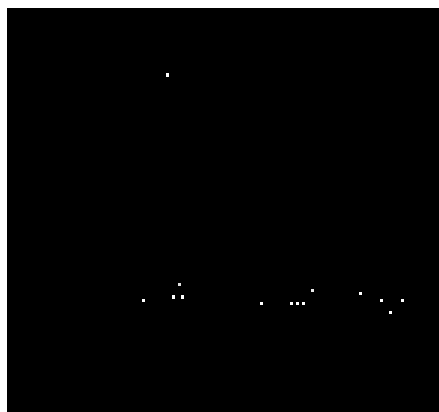


### 2.5.3 Slot 2

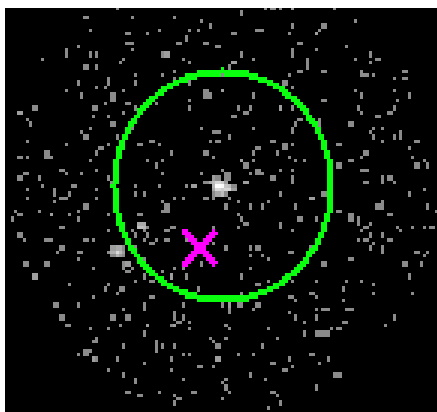


### 3 Gratings

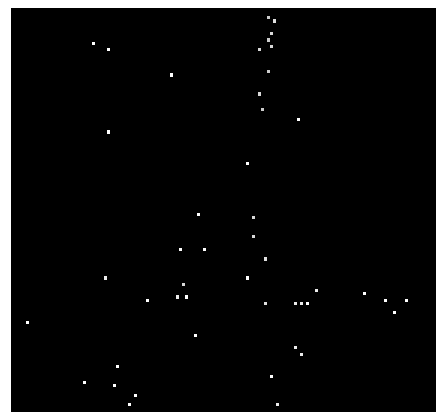
#### 3.1 HEG Arm



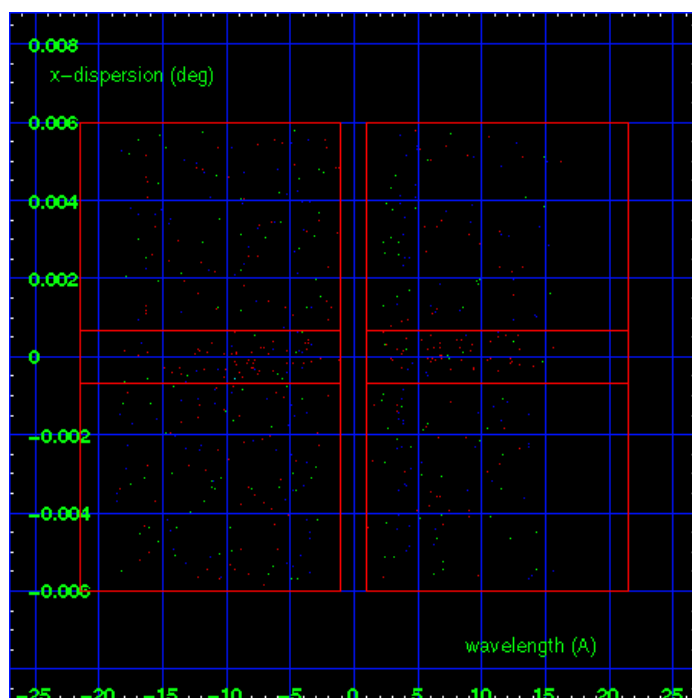
HEG Order Sort 123



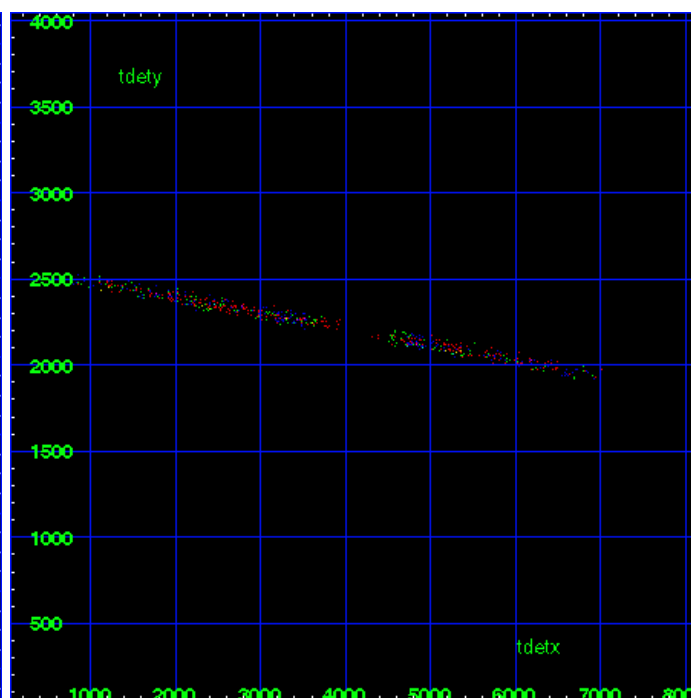
HEG Zero Order



HEG Order Sort ALL

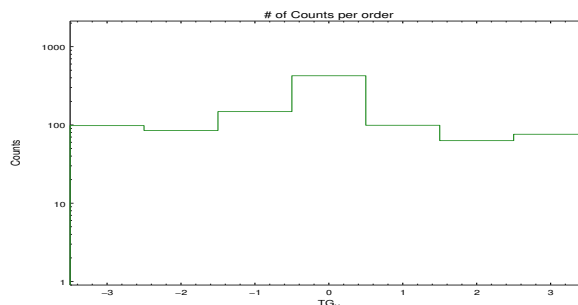


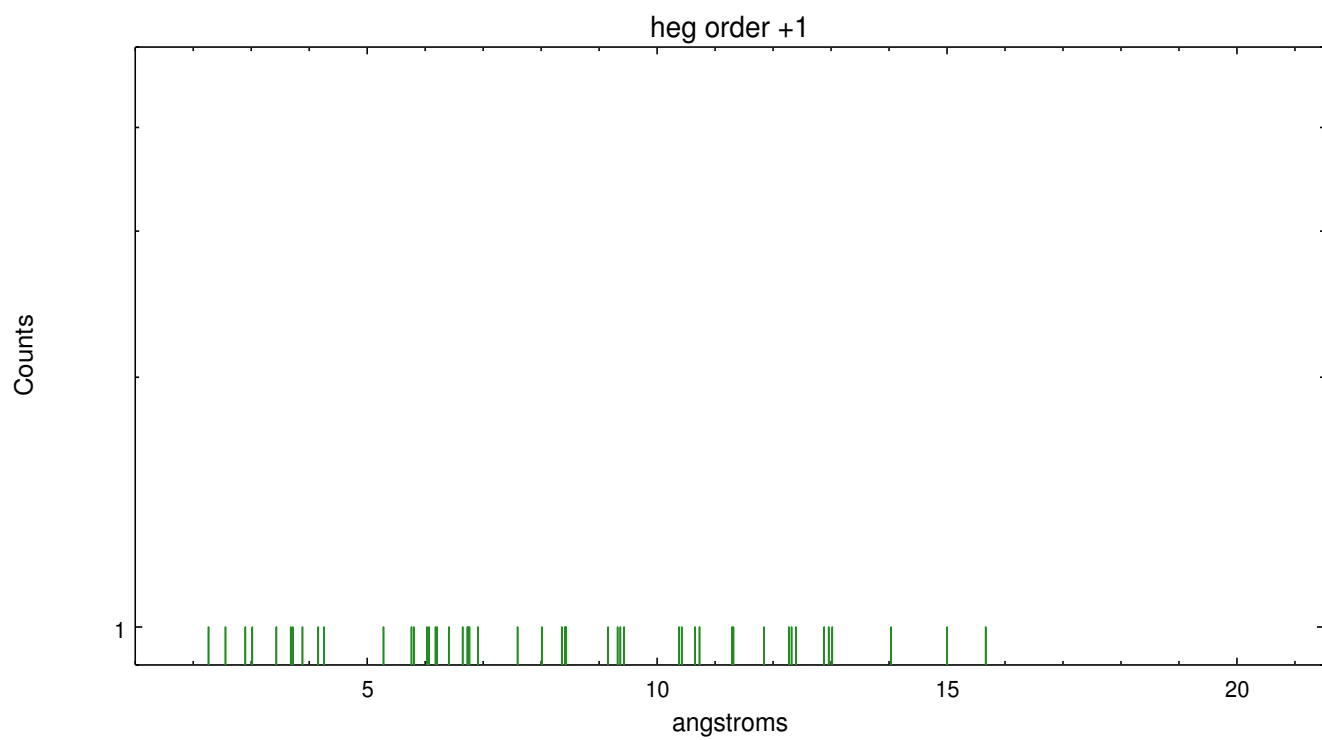
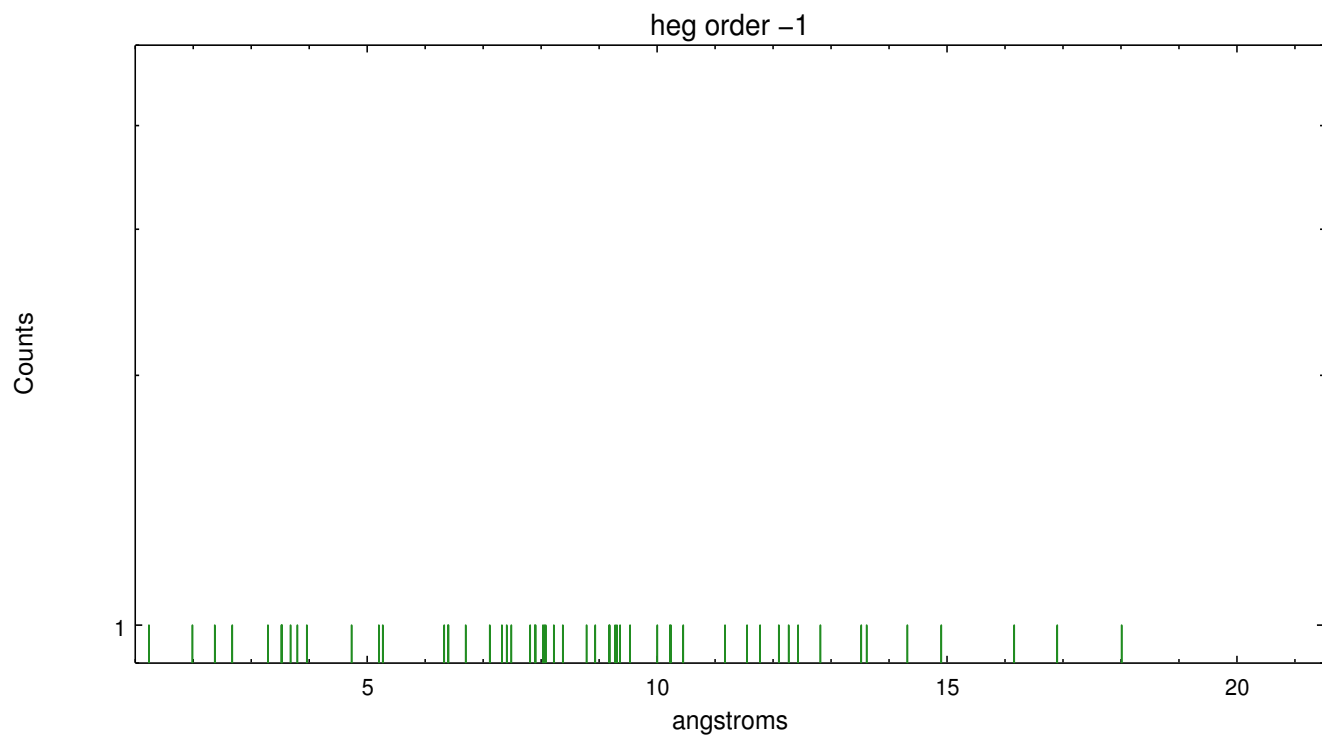
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	98	85	148	425	99	63	76

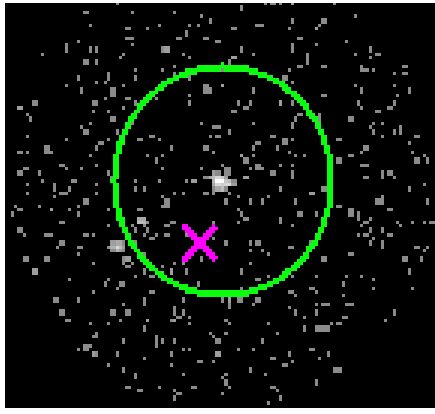




### 3.2 MEG Arm



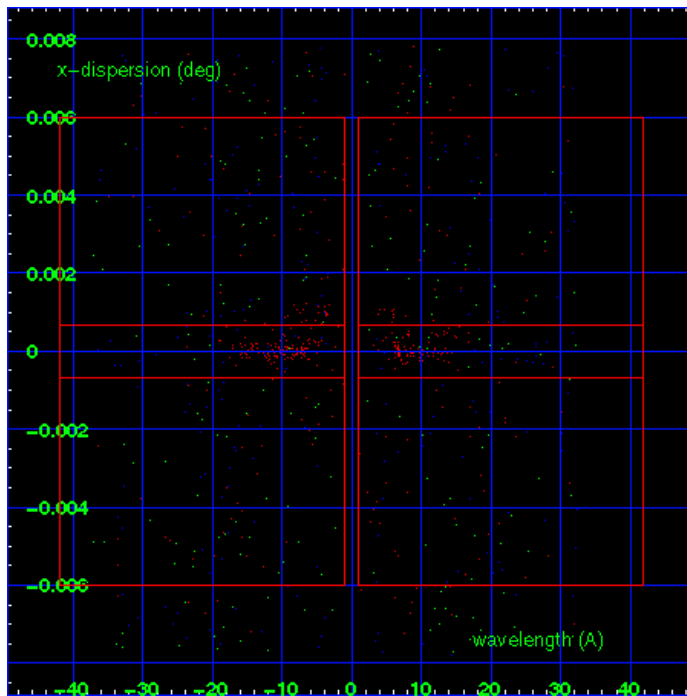
MEG Order Sort 123



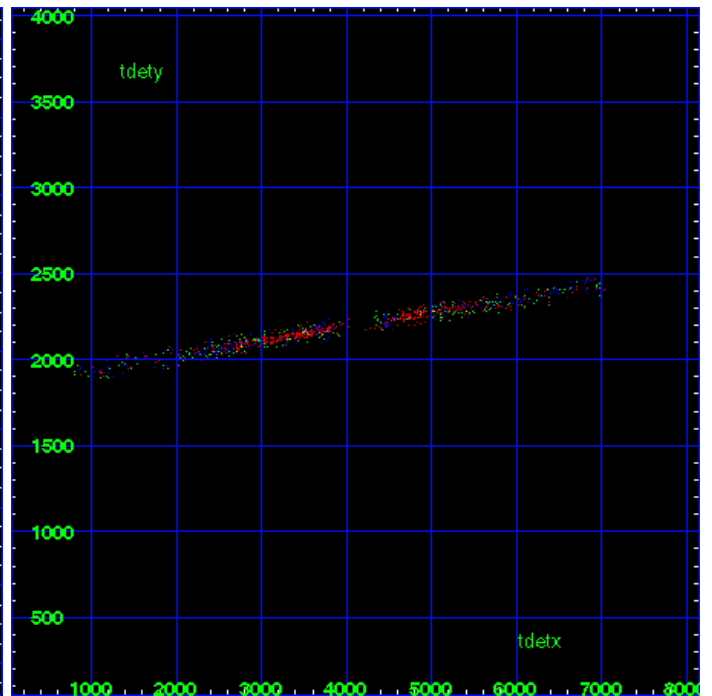
MEG Zero Order



MEG Order Sort ALL

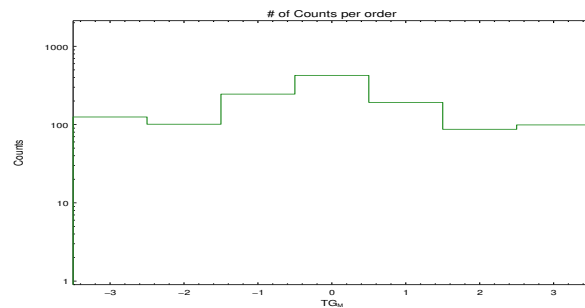


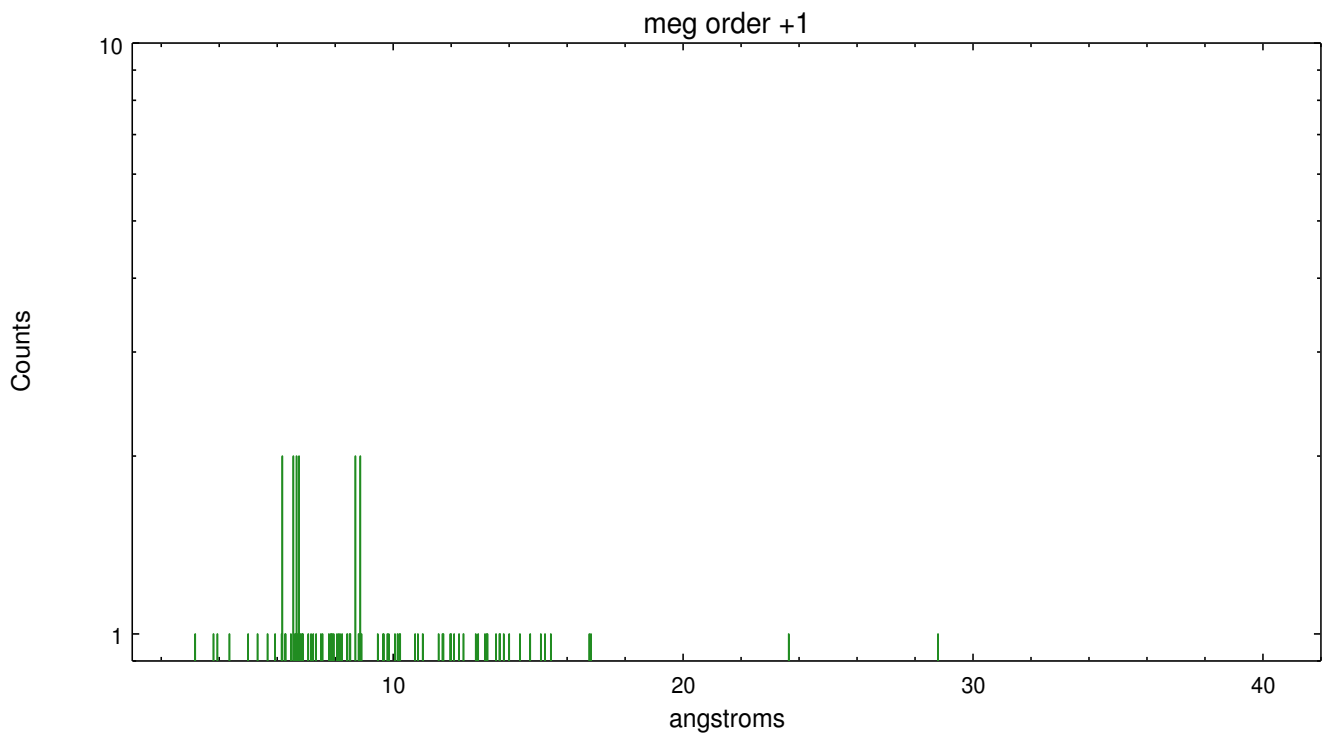
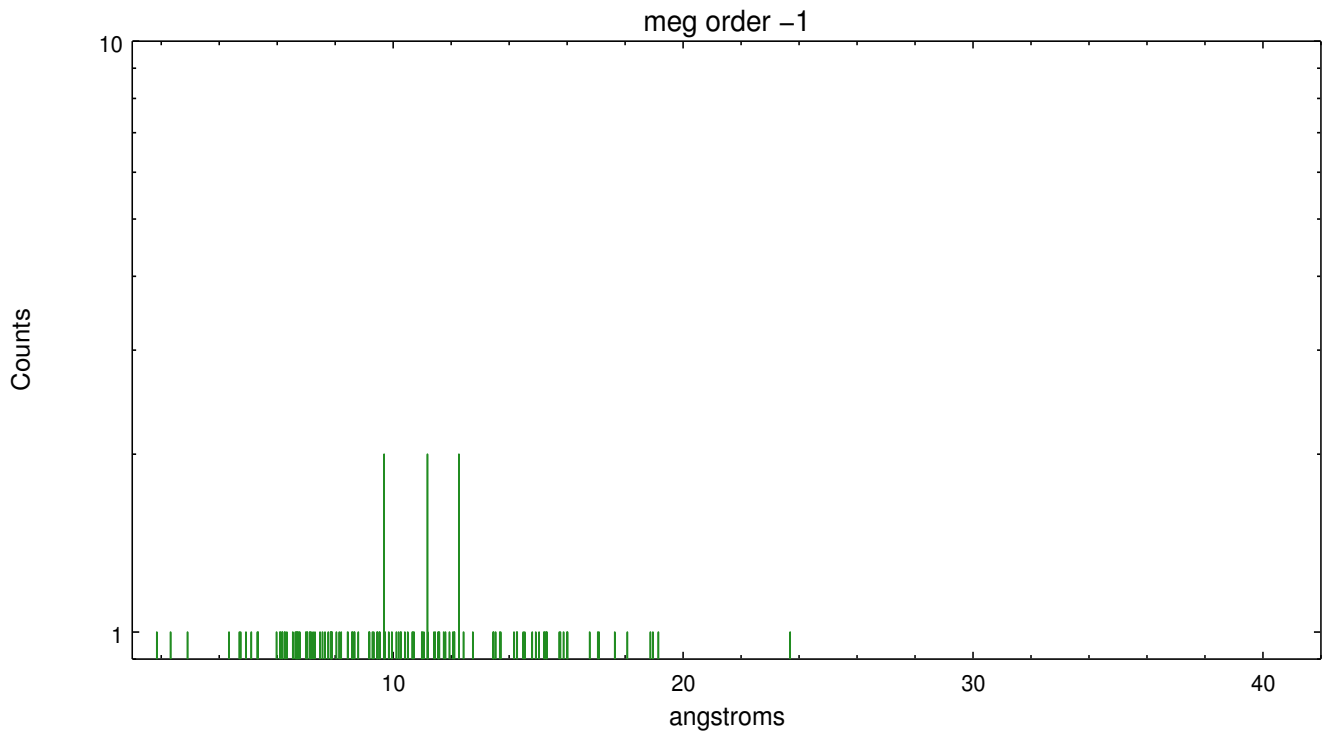
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	125	101	245	425	192	87	99





## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.7263999

### A.2 Comments

HD 104237A and E are aligned along the dispersion direction of HEG.