

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10835 - L2 Version 2  
Chandra X-Ray Center

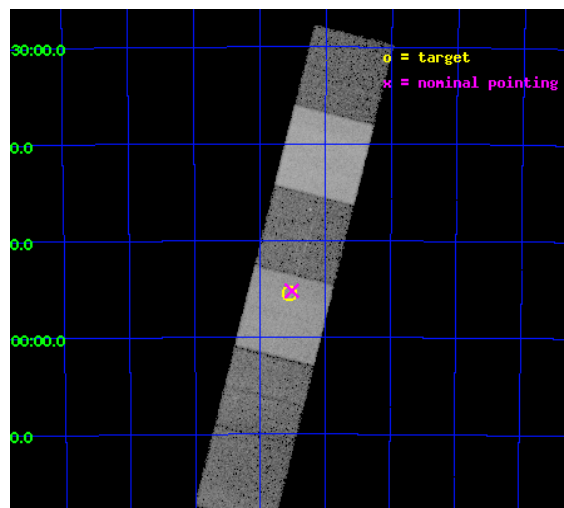
L2 Processing Date : May 26 2012

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# 1 Front

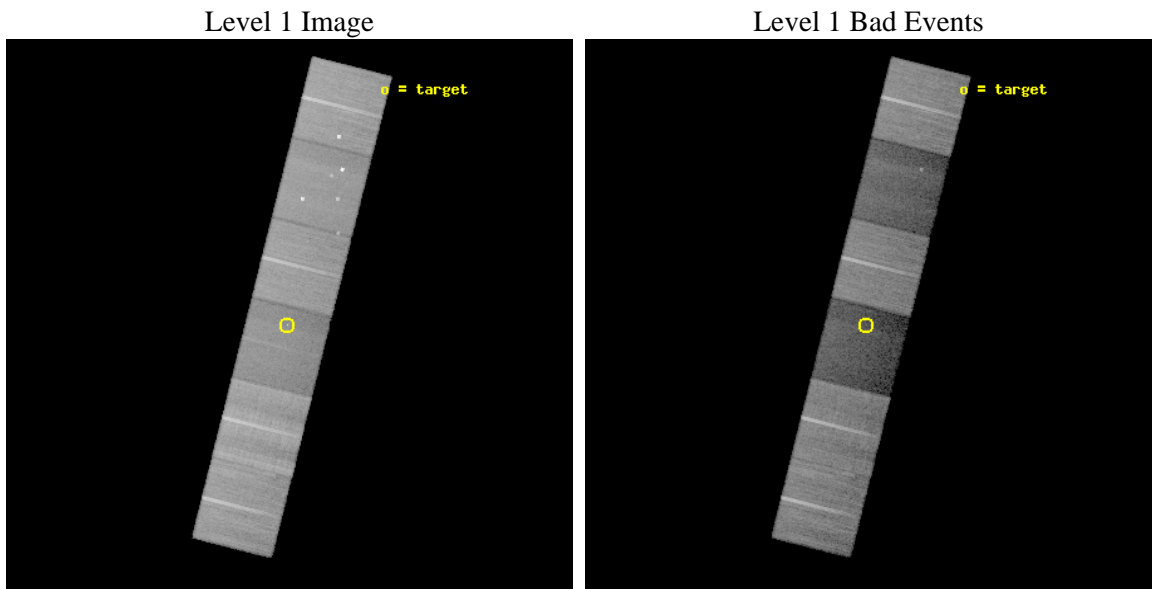
seq_num	200510	Sequence number
obs_id	10835	Observation id
title	An Emerging Class of Hot Emission Line Stars: HD 119682	Proposal t
observer	Dr Cara Rakowski	Principal investigator
object	HD 119682	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.635833	Observer's specified target RA [deg]
dec_targ	-62.923361	Observer's specified target Dec [deg]
ra_nom	206.62821451567	Nominal RA [deg]
dec_nom	-62.919969878013	Nominal Dec [deg]
roll_nom	104.14984436433	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30044.799888134	Sum of GTIs [s]
livetime	29664.354541144	Livetime [s]
ontime4	30044.799888134	Sum of GTIs [s]
ontime5	30044.799888134	Sum of GTIs [s]
ontime6	30044.799888134	Sum of GTIs [s]
ontime7	30044.799888134	Sum of GTIs [s]
ontime8	30041.558917761	Sum of GTIs [s]
ontime9	30044.799888134	Sum of GTIs [s]
l2events	245962	Number of level 2 events



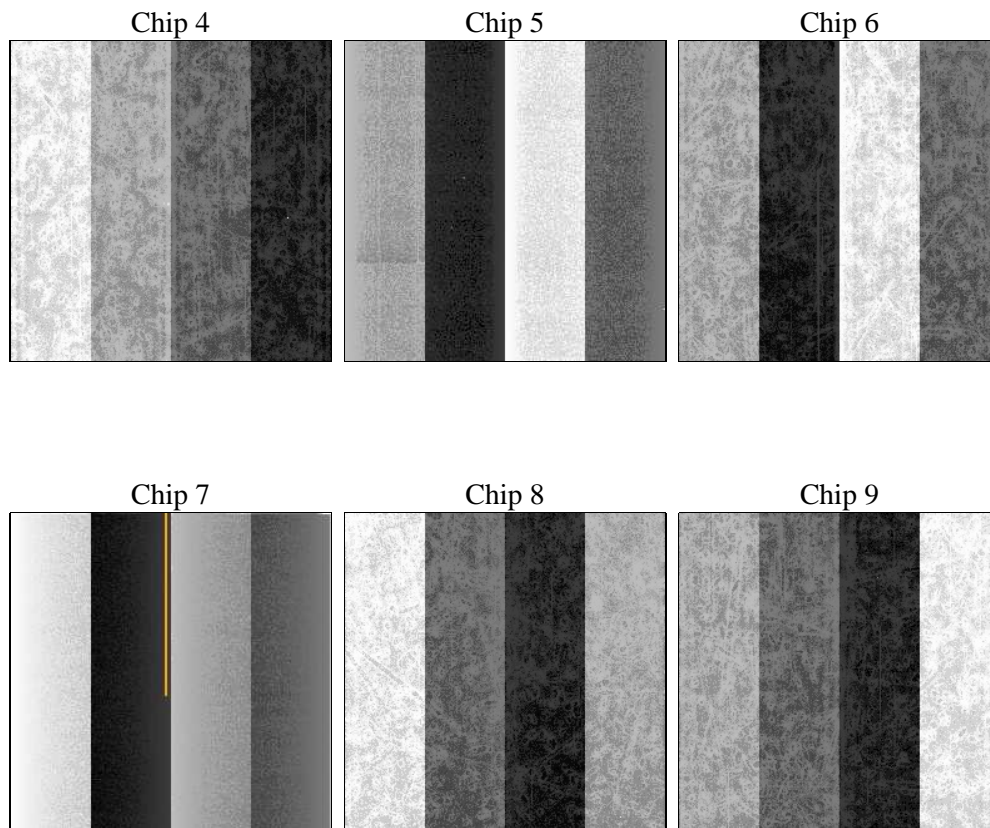
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	30044.799888134	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	30044.799888134	Sum of GTIs [s]
date	2012-05-26T06:55:25	Date and time of file creation	ontime5	30044.799888134	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	30044.799888134	Sum of GTIs [s]
			ontime7	30044.799888134	Sum of GTIs [s]
			ontime8	30041.558917761	Sum of GTIs [s]
			ontime9	30044.799888134	Sum of GTIs [s]
			l1events	1254321	Number of level 1 events

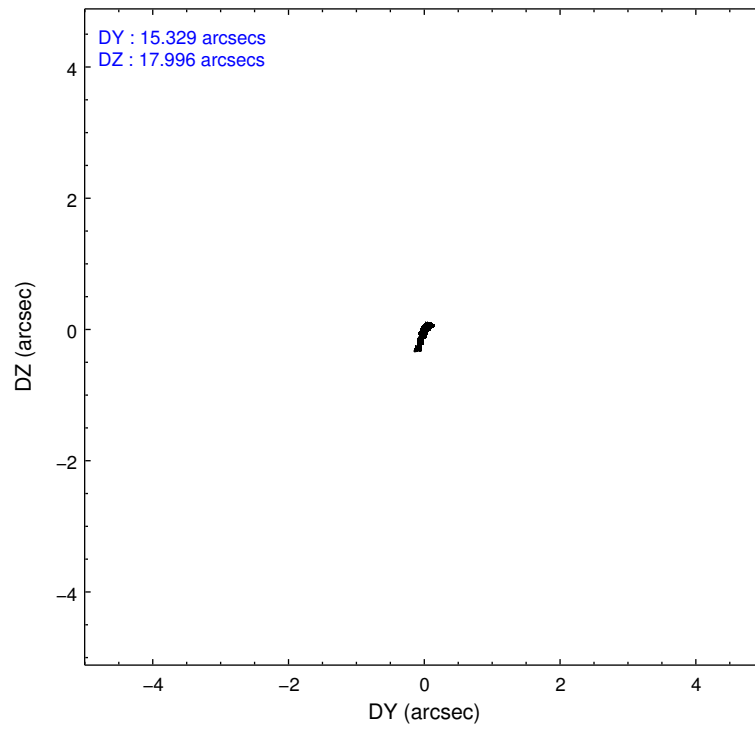
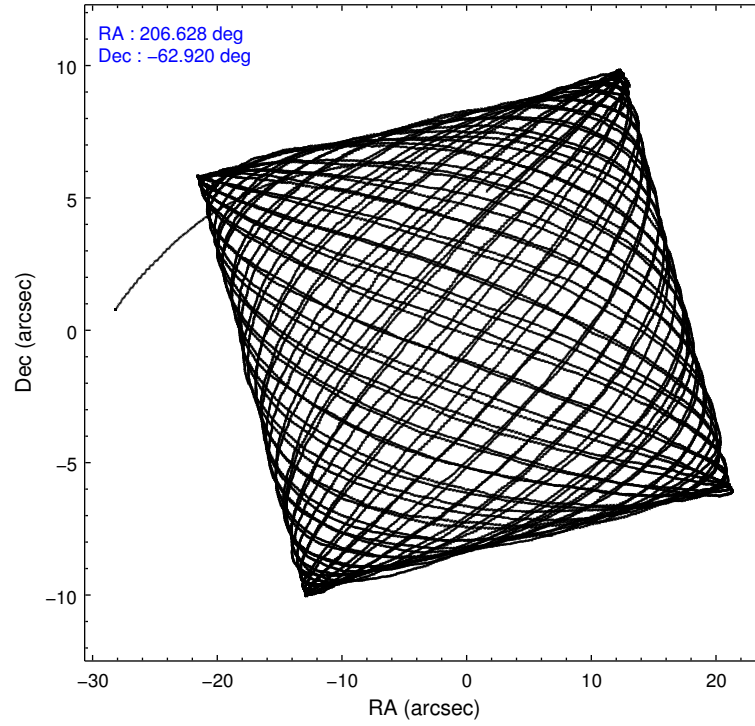
### 2.1.4 Events

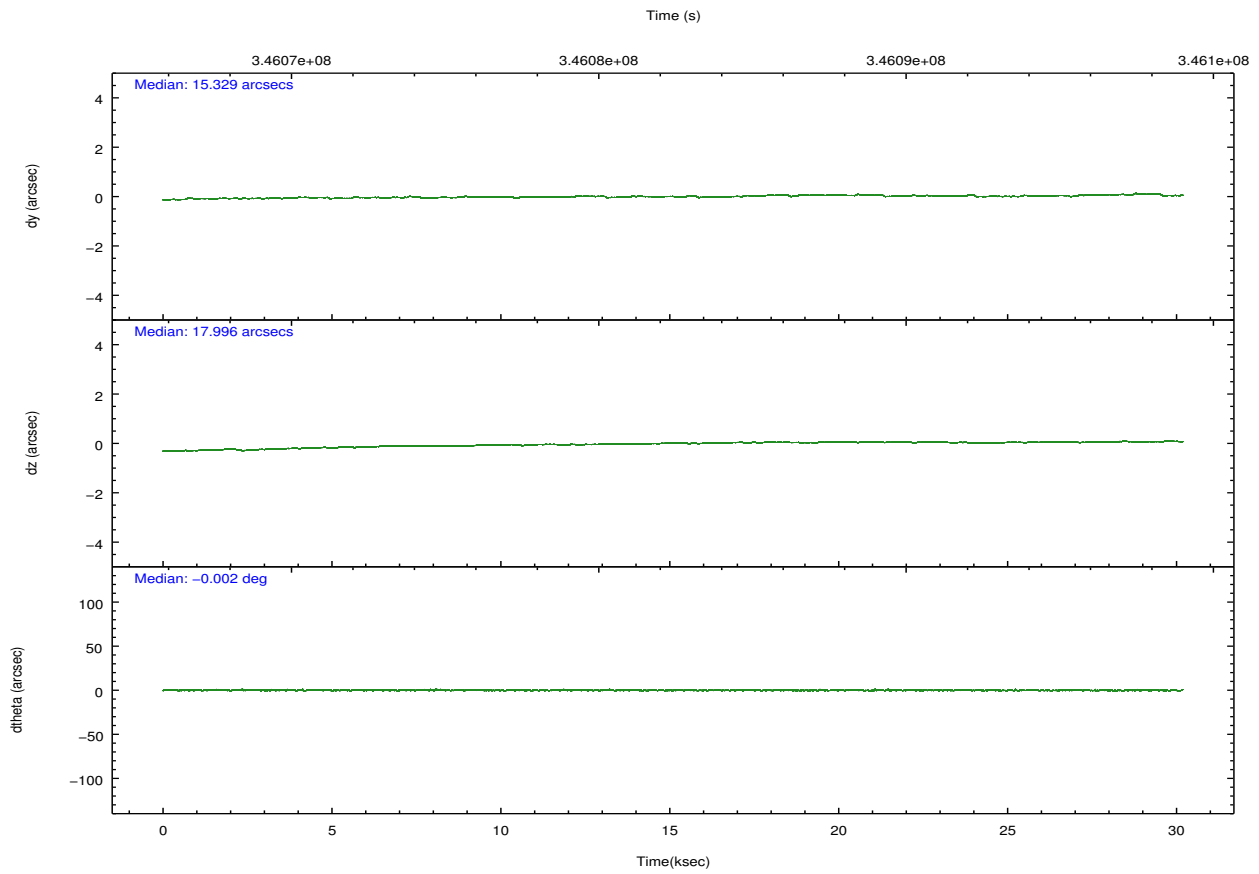
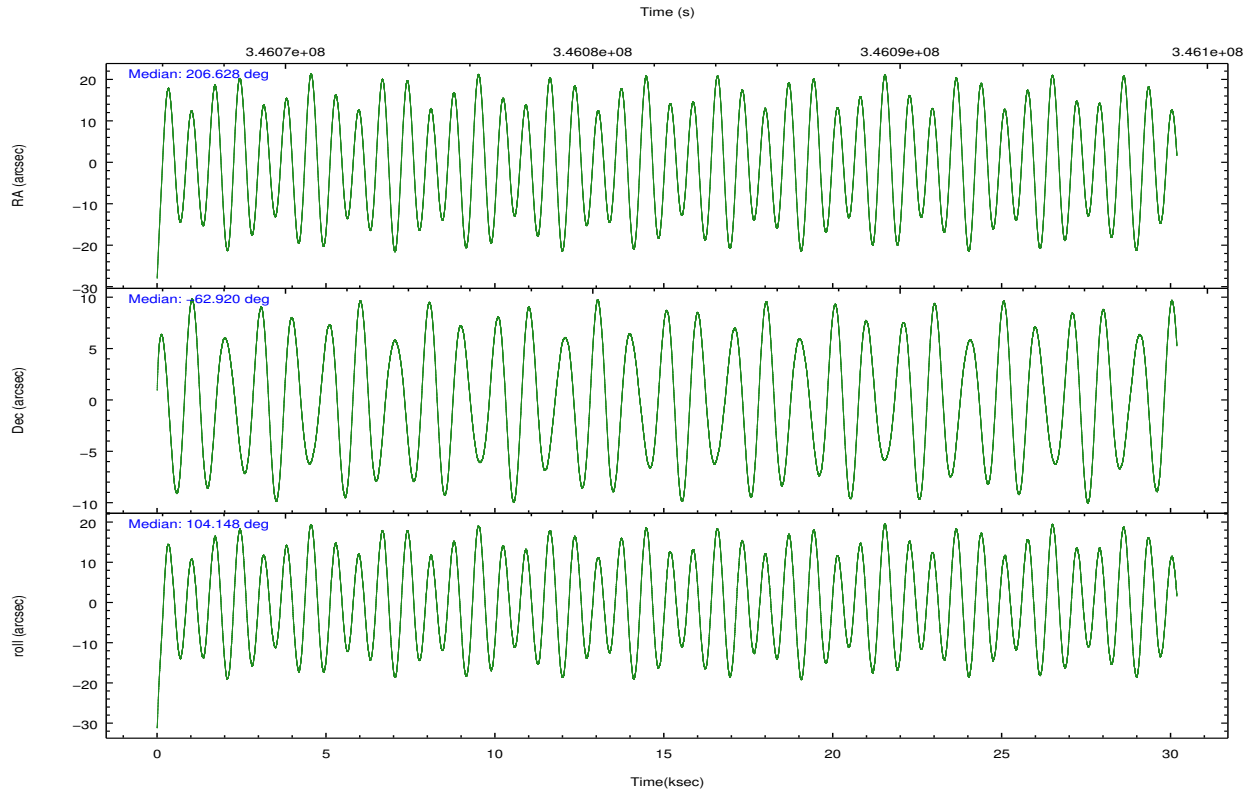
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	255539	201873	214763	128530	255268	198348	grade 0 events	14368	20974	9420	10063	20602	7461
rejected events	228937	76846	193353	53747	184568	179249		5%	10%	4%	7%	8%	3%
rejected %	89%	38%	90%	41%	72%	90%	grade 1 events	236	1003	119	369	229	132
								0%	0%	0%	0%	0%	0%
							grade 2 events	5331	41183	4571	18080	16653	4105
								2%	20%	2%	14%	6%	2%
							grade 3 events	2055	6046	2158	7600	7767	2199
								0%	2%	1%	5%	3%	1%
							grade 4 events	2029	5767	2042	7508	7139	2071
								0%	2%	0%	5%	2%	1%
							grade 5 events	4396	15649	4350	13144	7751	4888
								1%	7%	2%	10%	3%	2%
							grade 6 events	2822	51072	3223	31539	18545	3263
								1%	25%	1%	24%	7%	1%
							grade 7 events	224302	60179	188880	40227	176582	174229
								87%	29%	87%	31%	69%	87%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	206.670649	206.6282145156723	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.939321	-62.91996987801262	Alternating exposures requested	N	N
[deg] Pointing Roll	104.031009	104.1498443643271	[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			
[s] Observation start time (MET)	346067517.184000	346066362.38135			
Observation start date	2008-12-19T09:50:52	2008-12-19T09:32:42			
[s] Observation end time (MET)	346097517.184000	346097773.5079			
Observation end date	2008-12-19T18:10:52	2008-12-19T18:16:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect





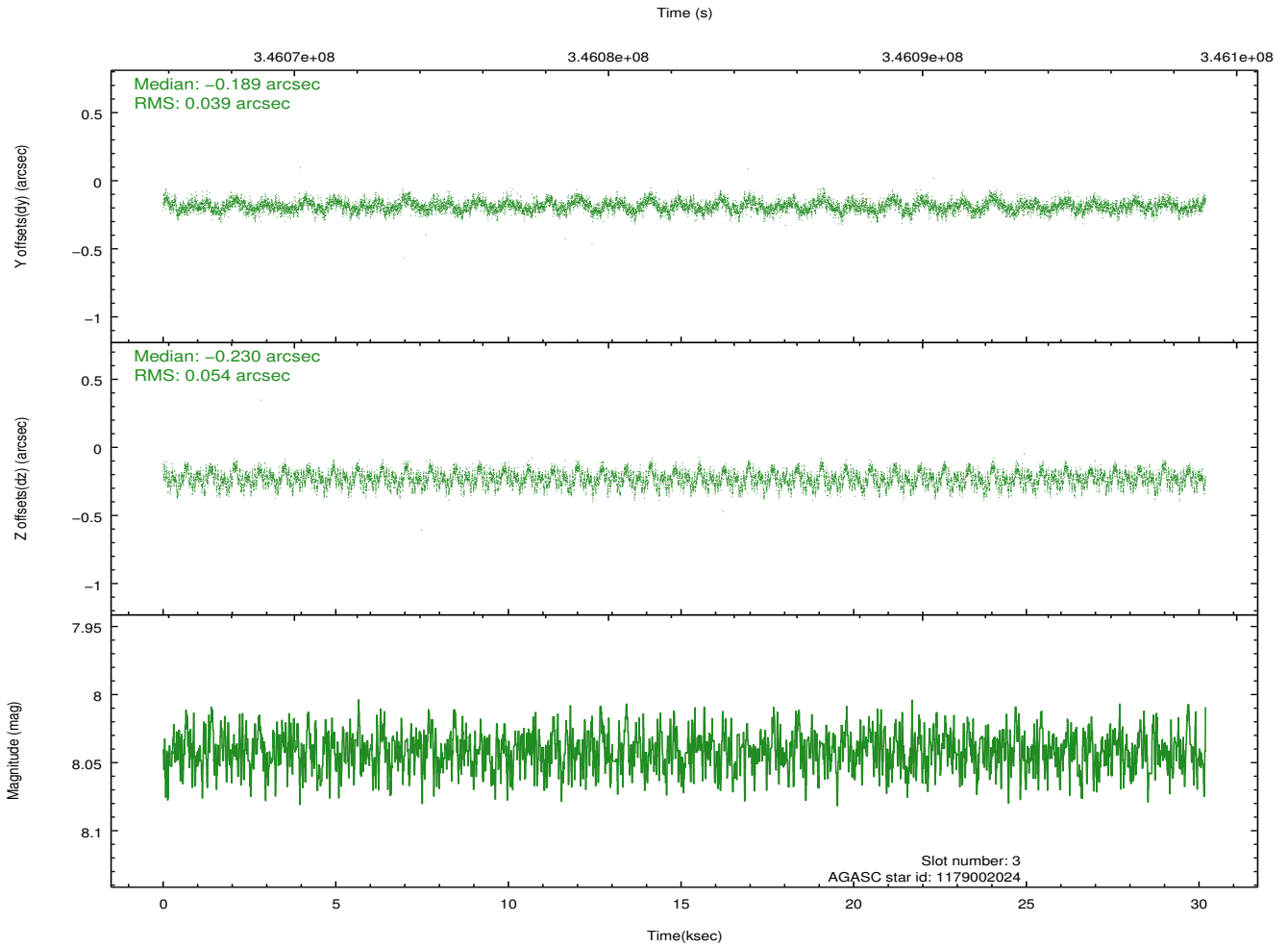
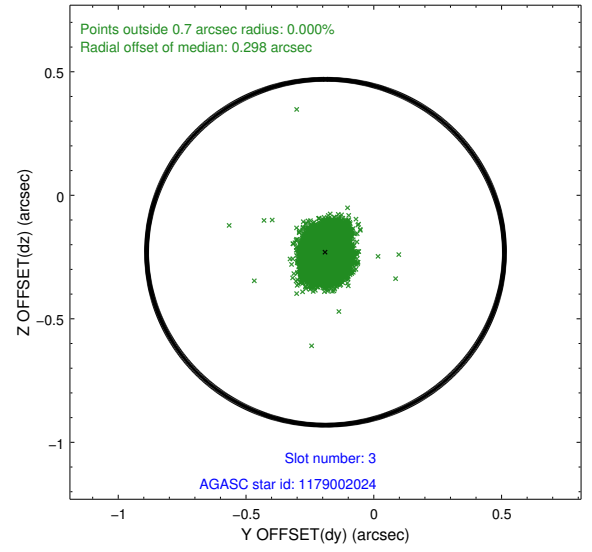
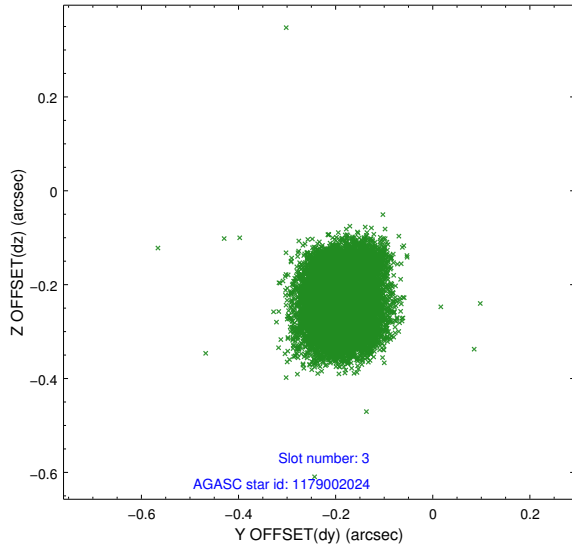
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	7363	-0.062	-0.045	0.007	0.011	0.000000	0.000000	-768.42	-1739.43
1	FID	ACIS-S-4	6.96	7363	0.161	0.042	0.006	0.010	0.000000	0.000000	2145.10	168.98
2	FID	ACIS-S-5	6.99	7363	-0.130	0.012	0.006	0.011	0.000000	0.000000	-1821.18	162.81
3	GUIDE	1179002024	8.04	14721	-0.189	-0.230	0.071	0.114	205.266581	-62.776003	1106.55	2106.81
4	GUIDE	1180717040	7.84	14725	0.101	0.152	0.068	0.109	208.136771	-63.356115	-2055.28	-1925.32
5	GUIDE	1180722560	8.07	14720	0.017	0.013	0.053	0.086	207.224700	-63.223164	-1212.81	-623.04
6	GUIDE	1180731504	9.14	14713	0.218	0.122	0.104	0.168	207.453954	-63.504980	-2287.74	-724.59
7	GUIDE	1180721992	8.62	14712	-0.147	-0.057	0.084	0.126	205.717702	-62.580888	1623.45	1222.80

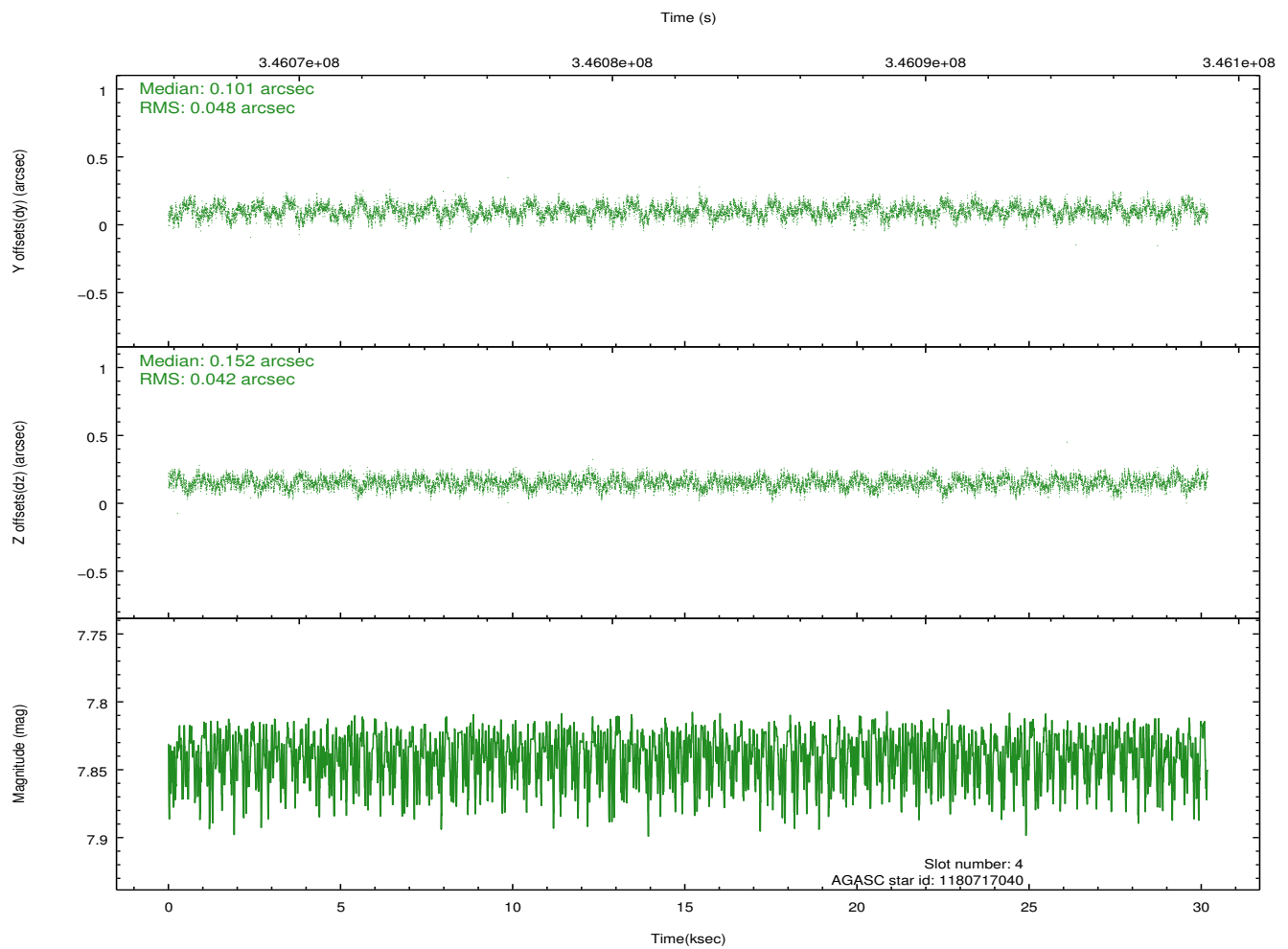
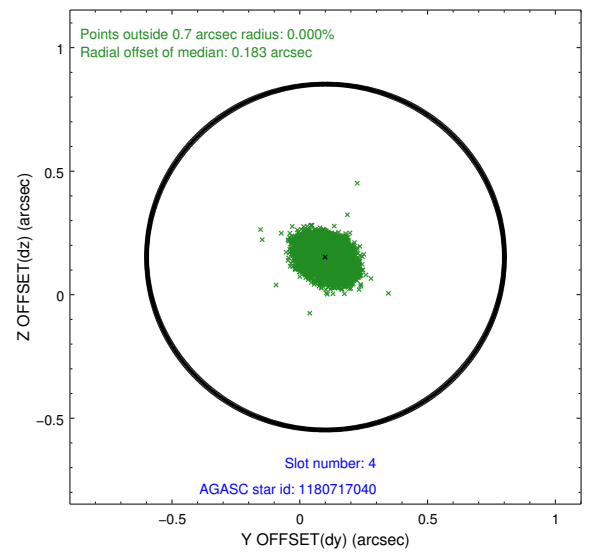
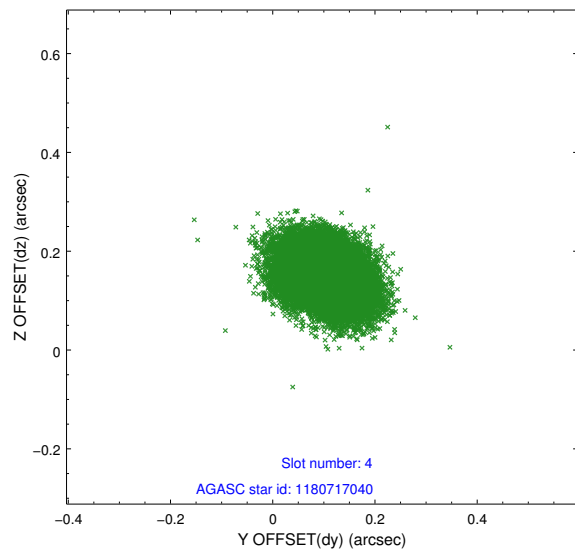
∞

## 2.4 Star Slots

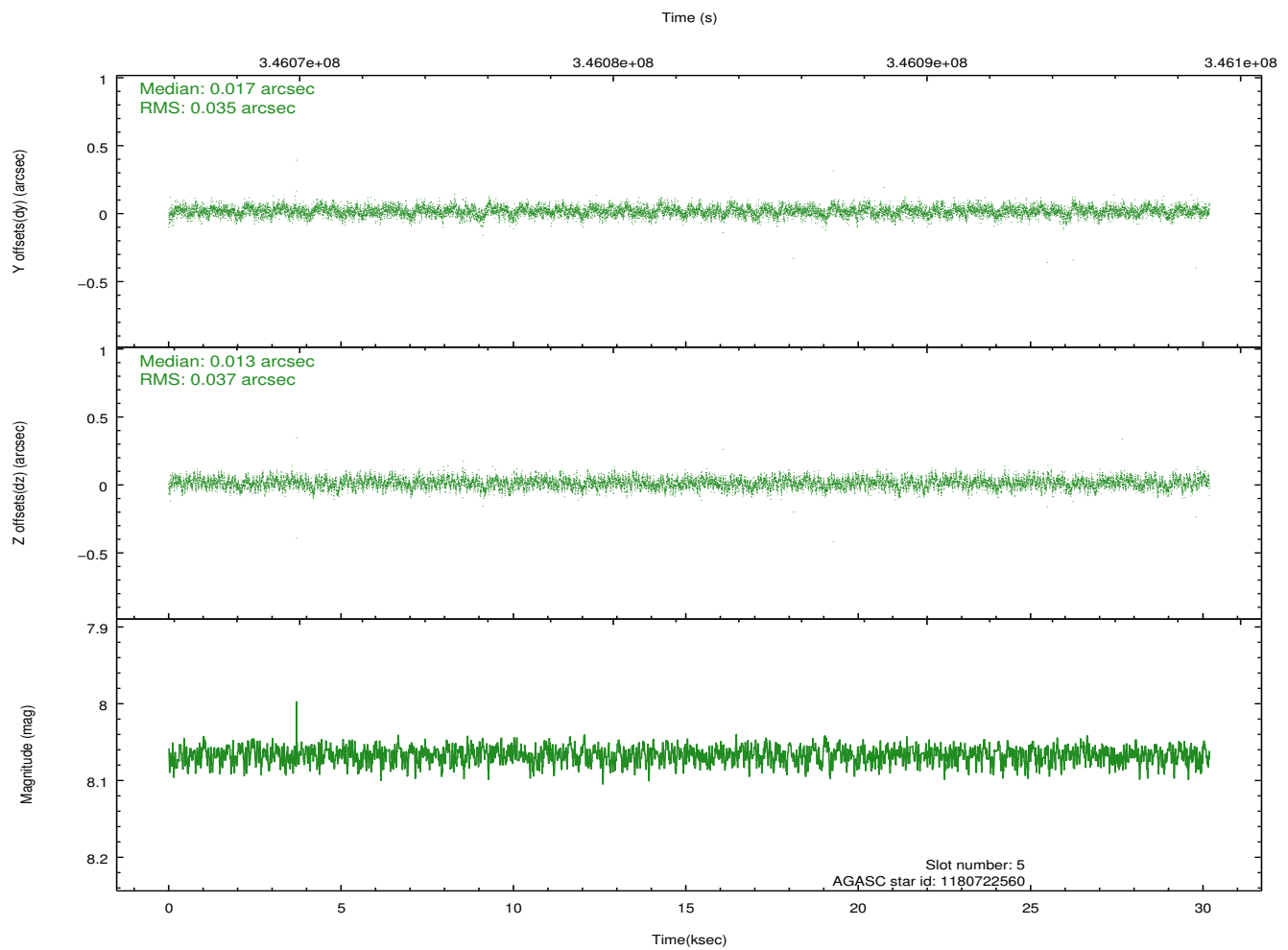
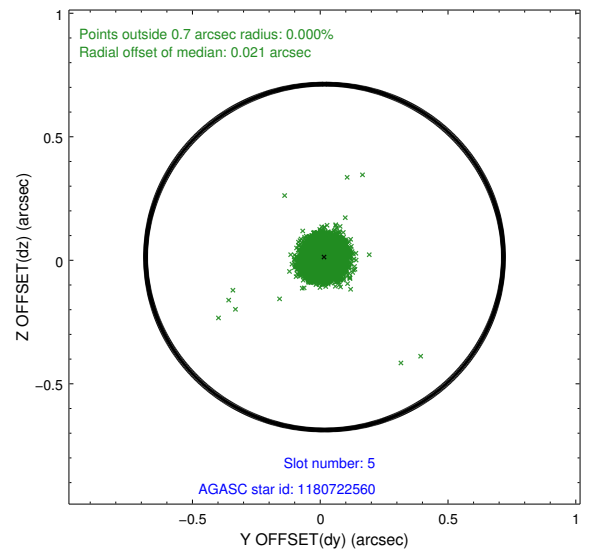
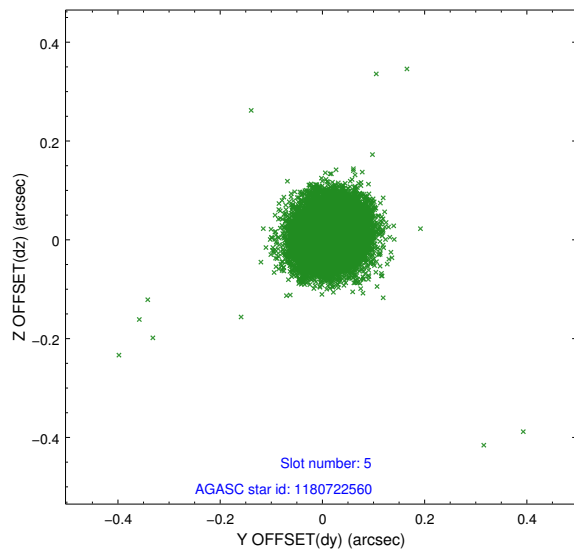
### 2.4.1 Slot 3



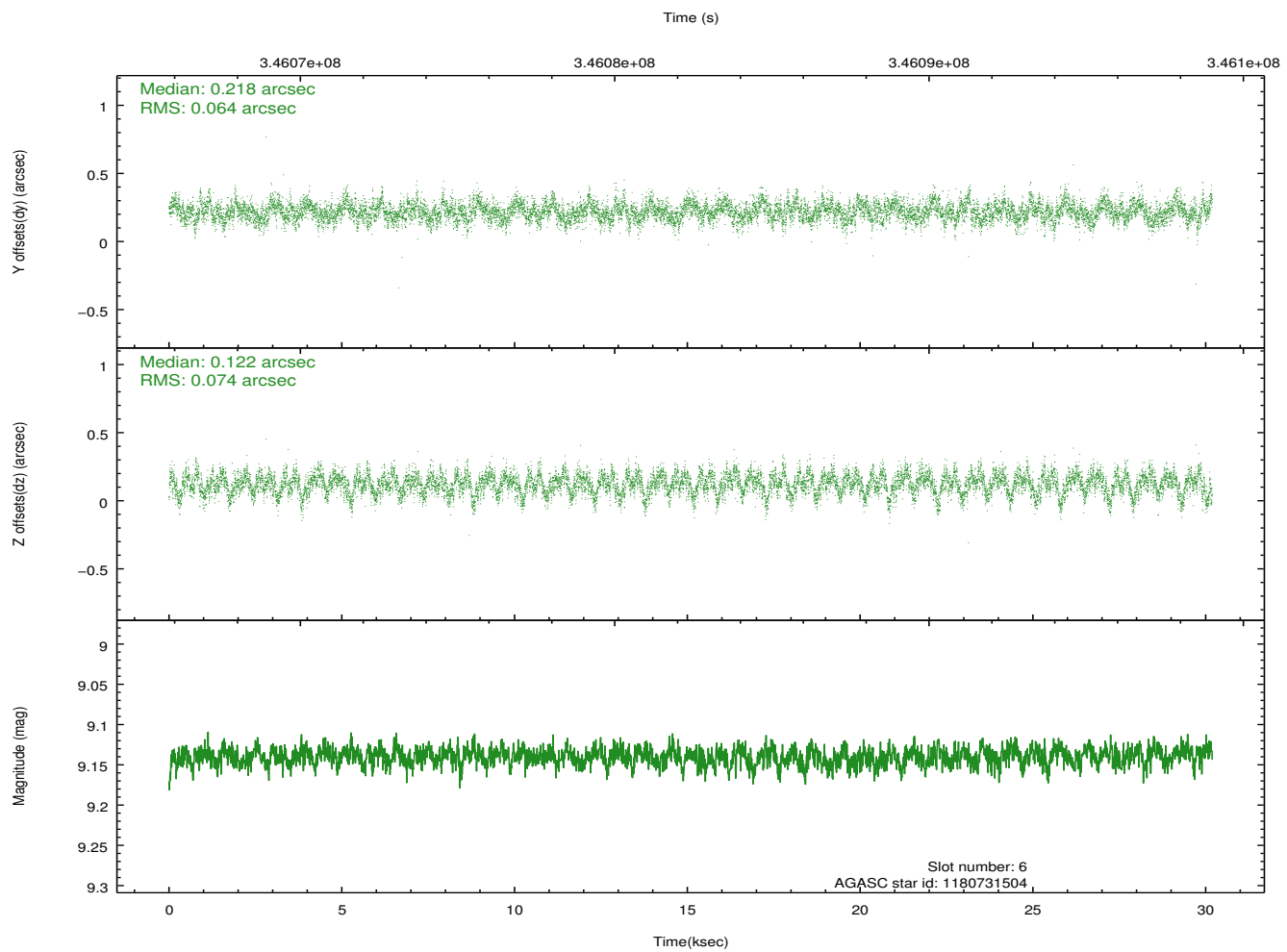
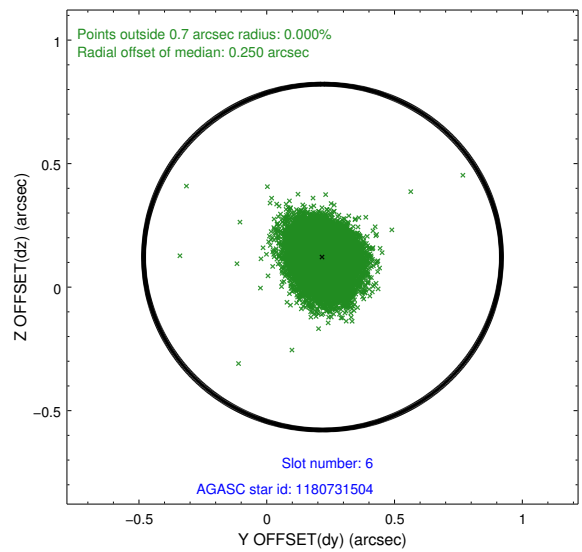
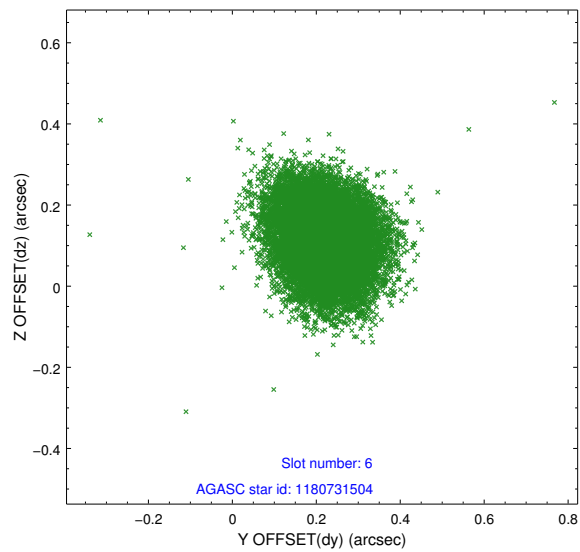
## 2.4.2 Slot 4



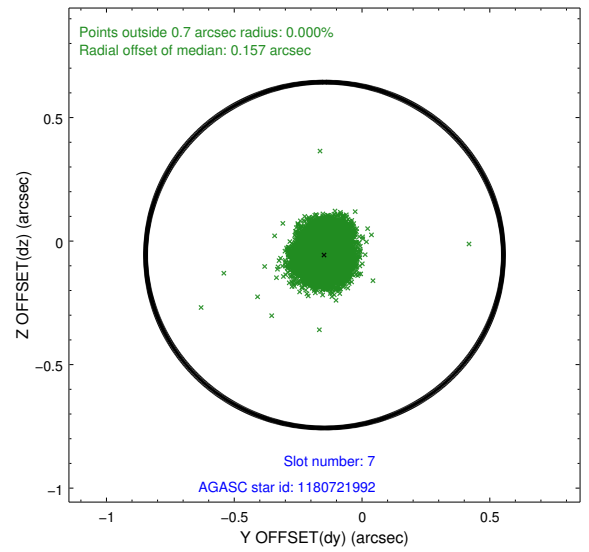
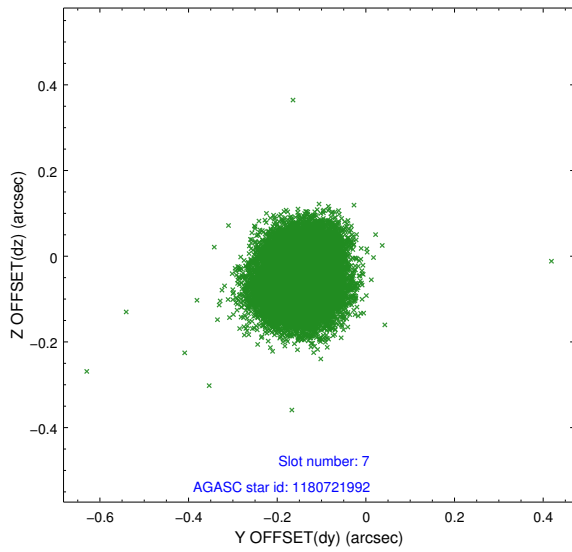
### 2.4.3 Slot 5



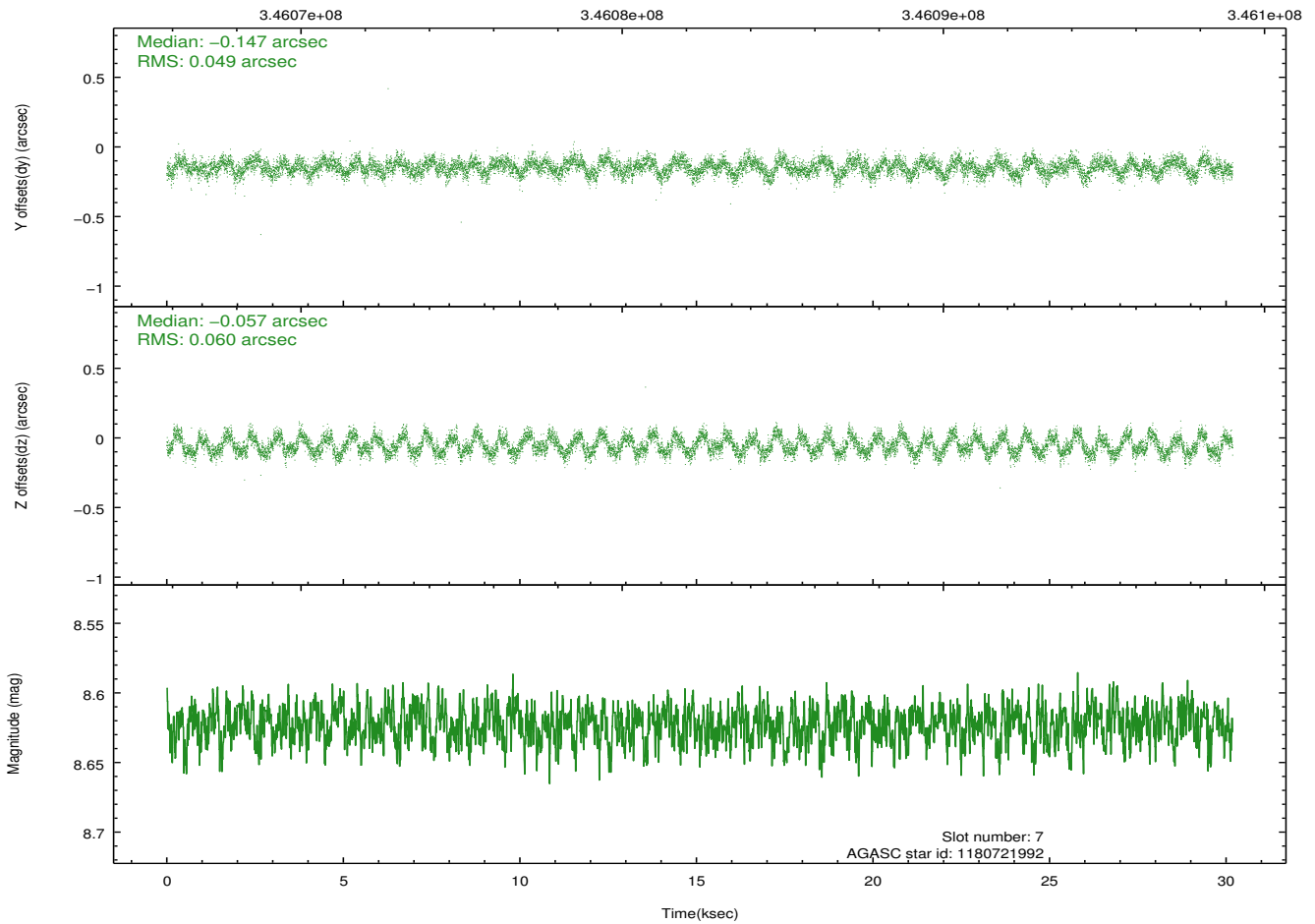
## 2.4.4 Slot 6



## 2.4.5 Slot 7

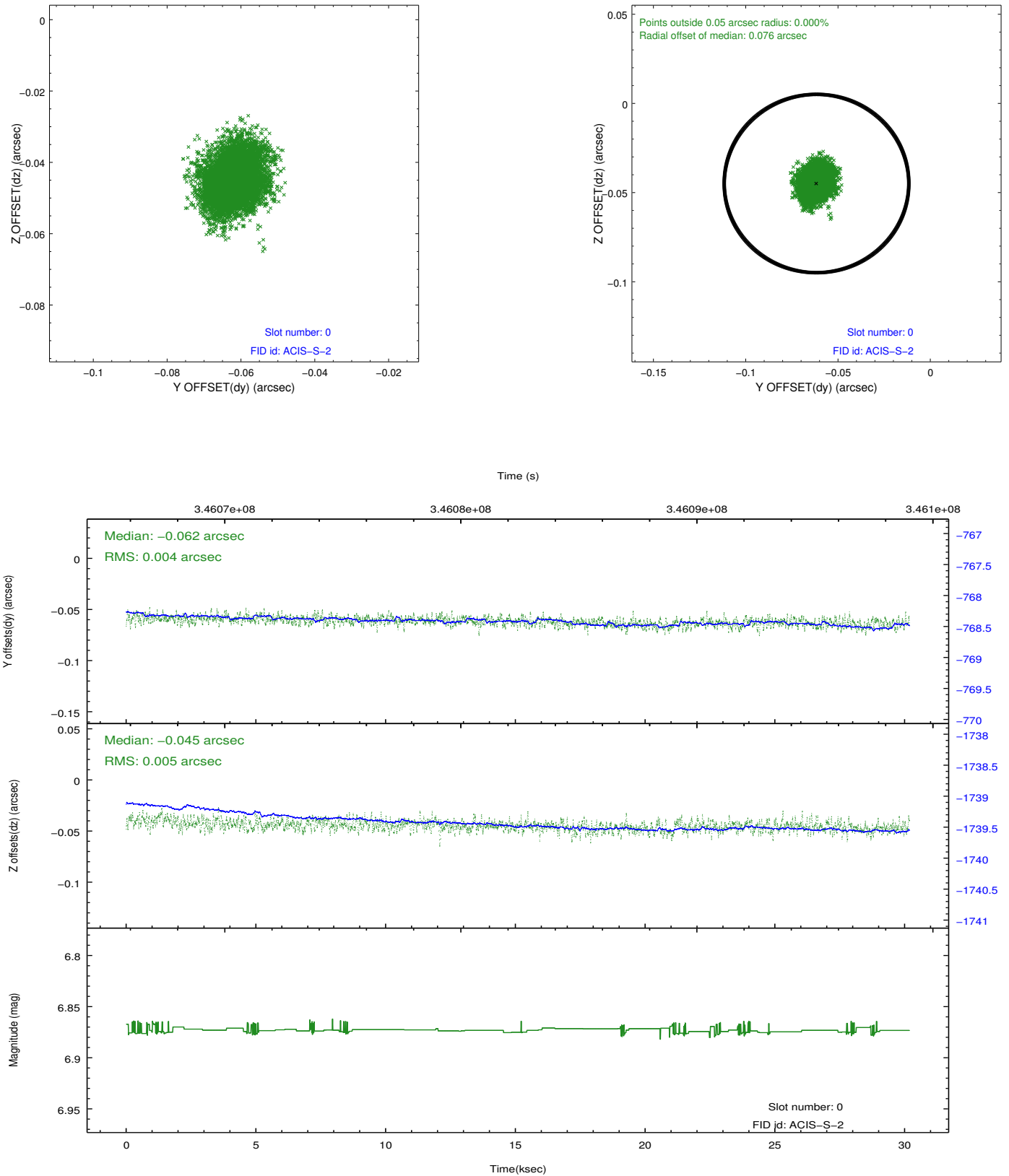


Time (s)

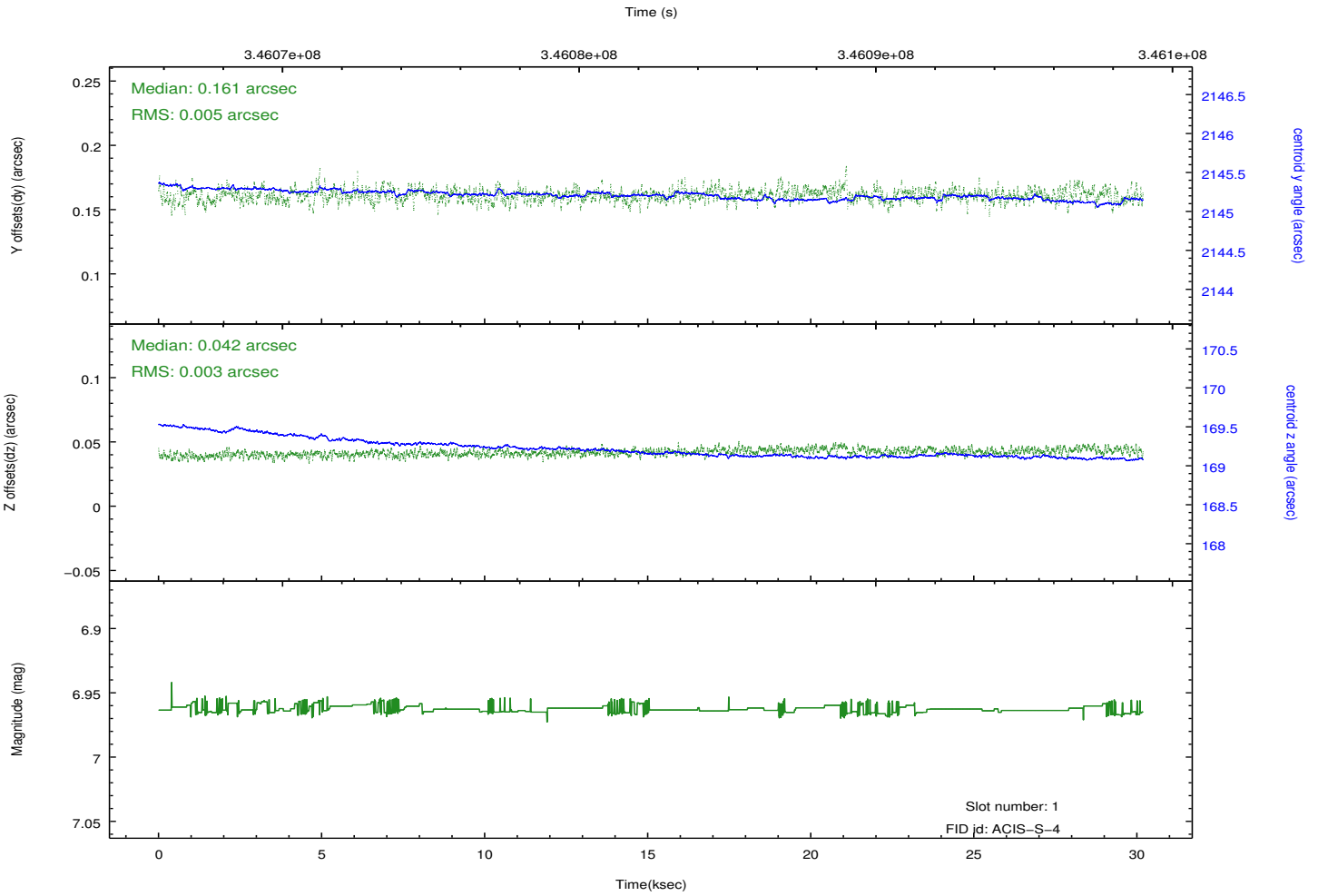
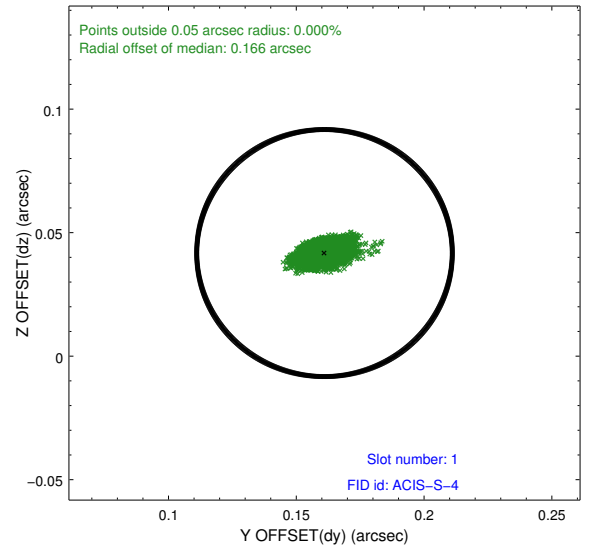
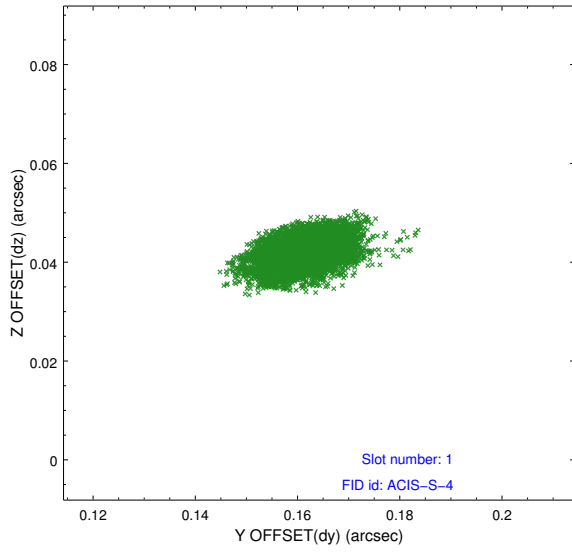


## 2.5 FID Slots

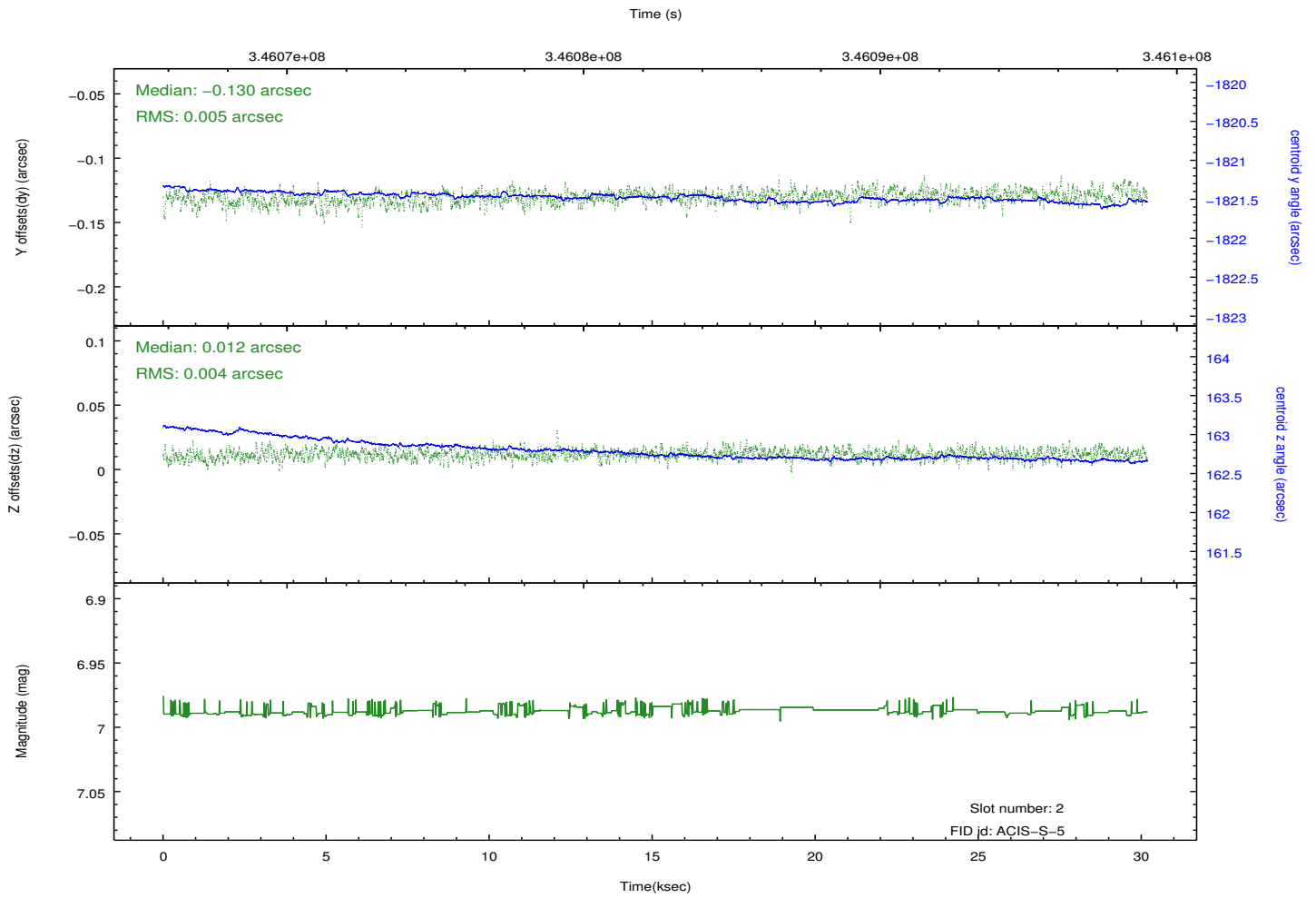
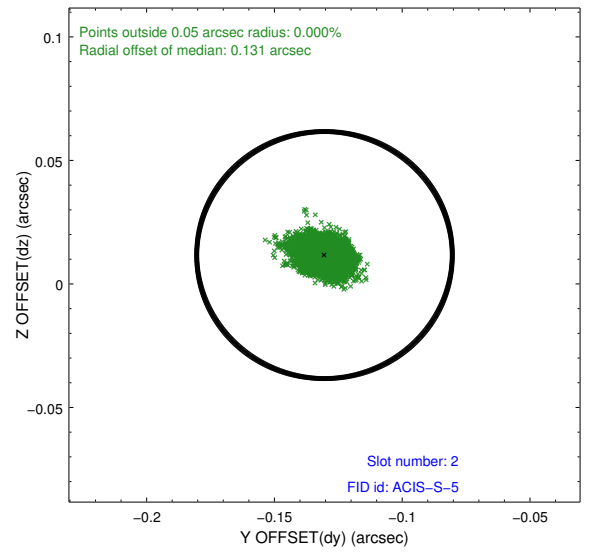
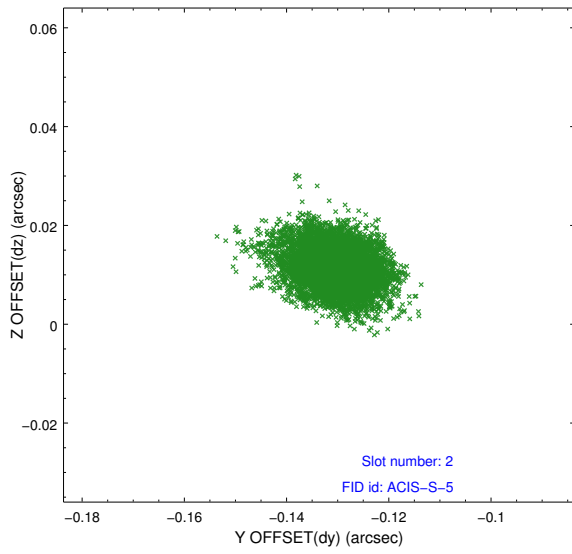
### 2.5.1 Slot 0



## 2.5.2 Slot 1

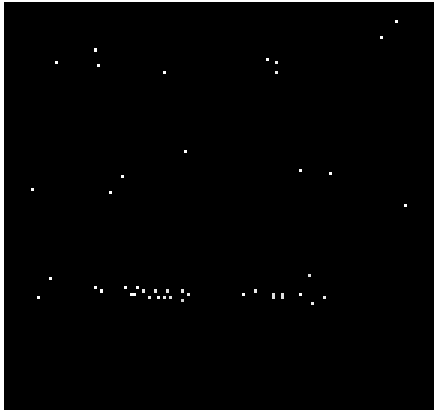


### 2.5.3 Slot 2

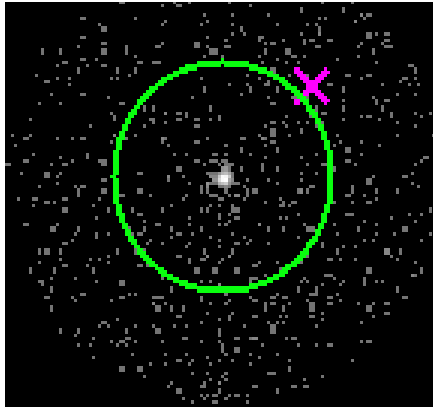


# 3 Gratings

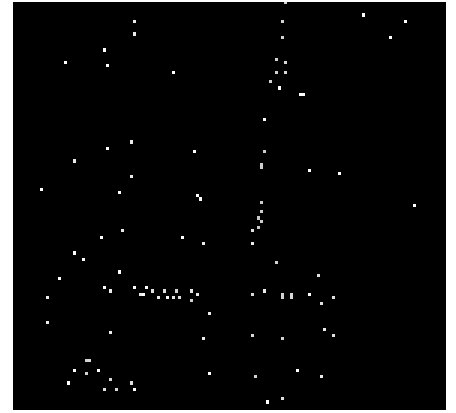
## 3.1 HEG Arm



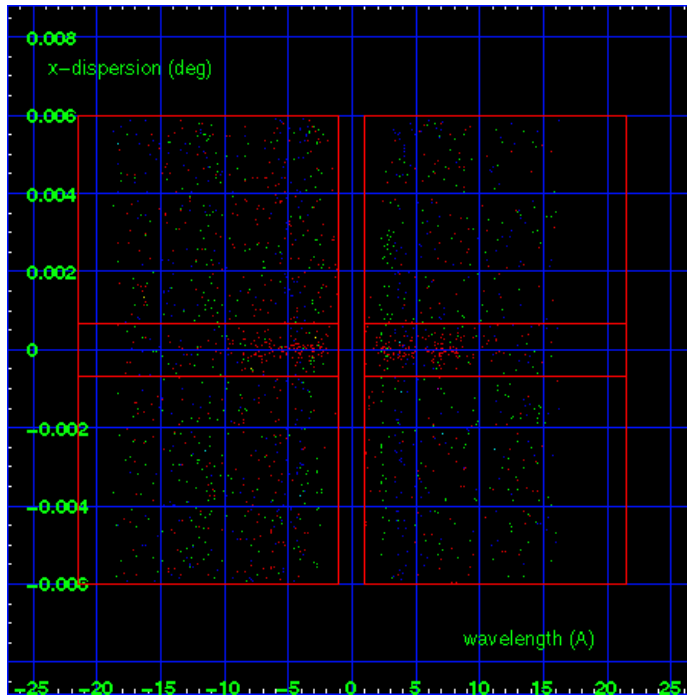
HEG Order Sort 123



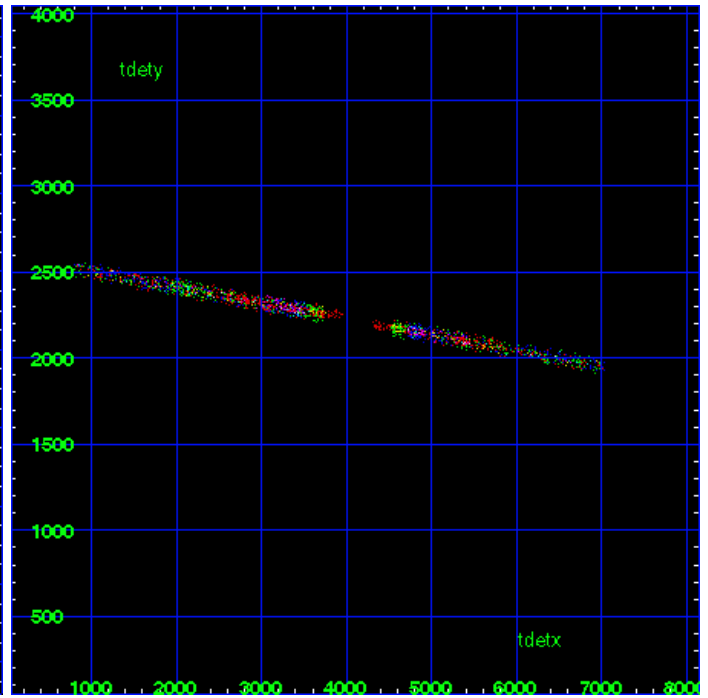
HEG Zero Order



HEG Order Sort ALL

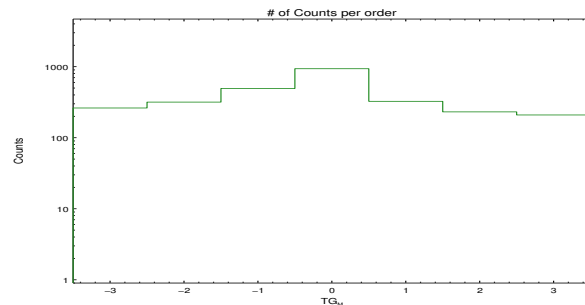


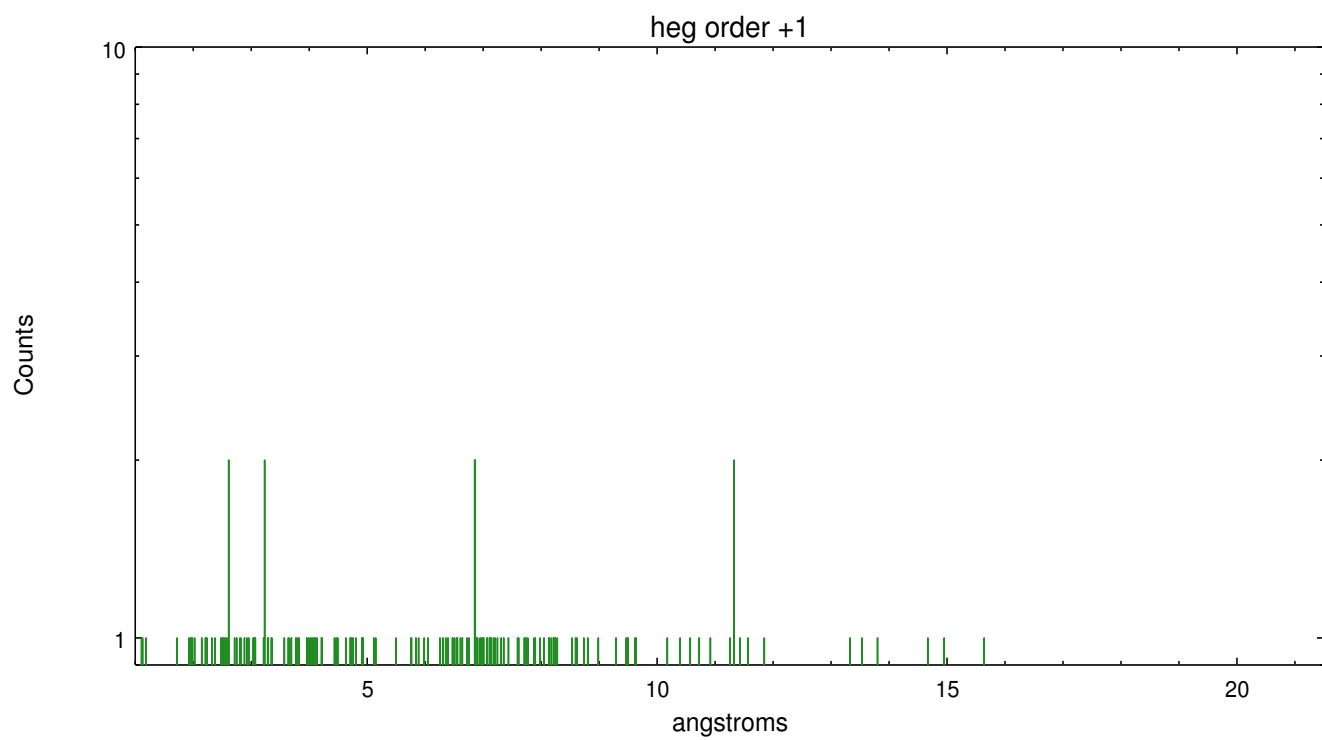
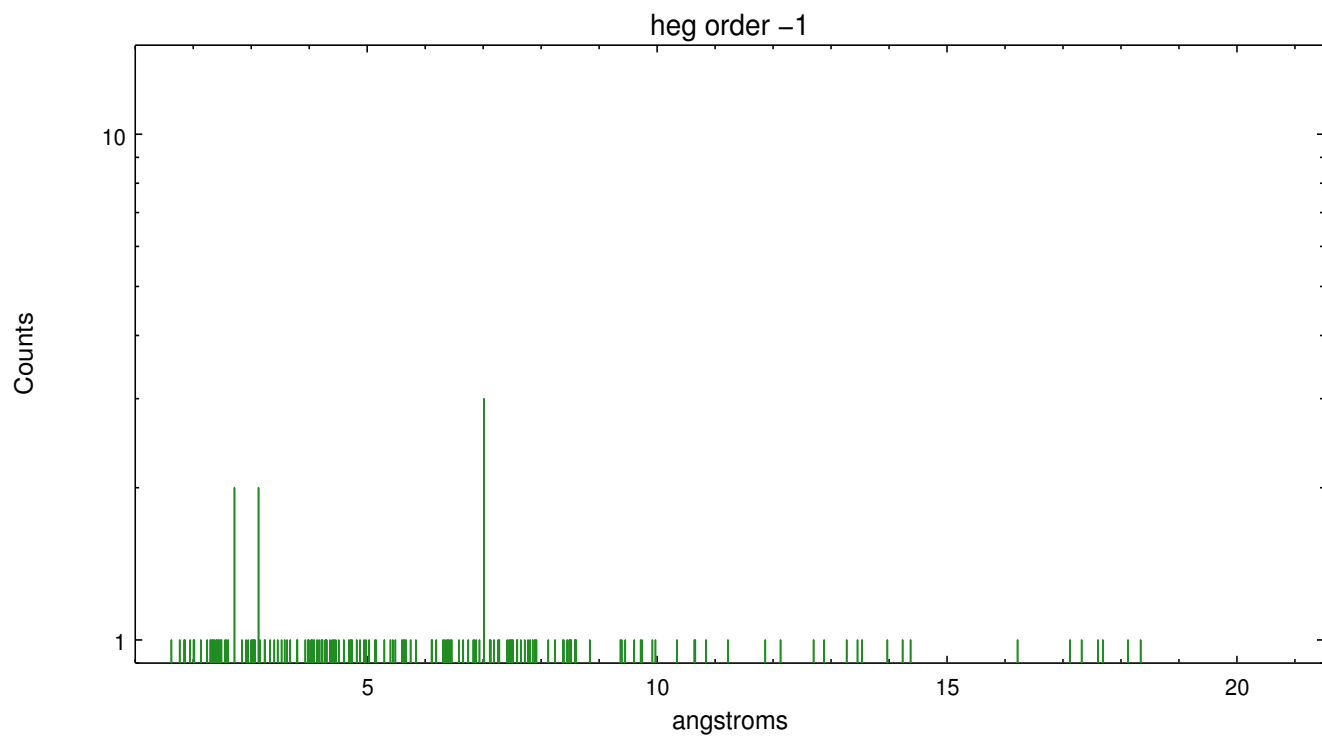
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	262	317	493	936	325	231	209

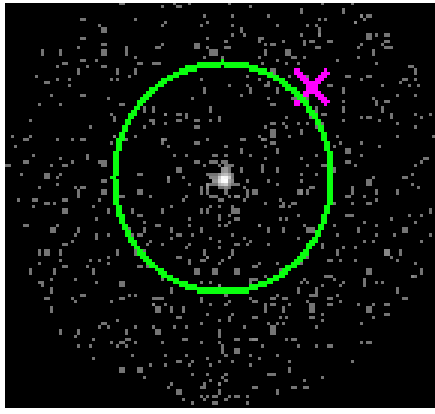




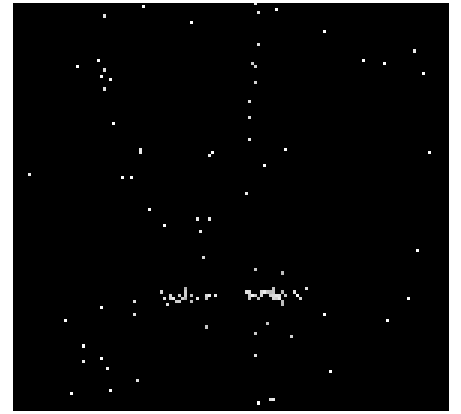
### 3.2 MEG Arm



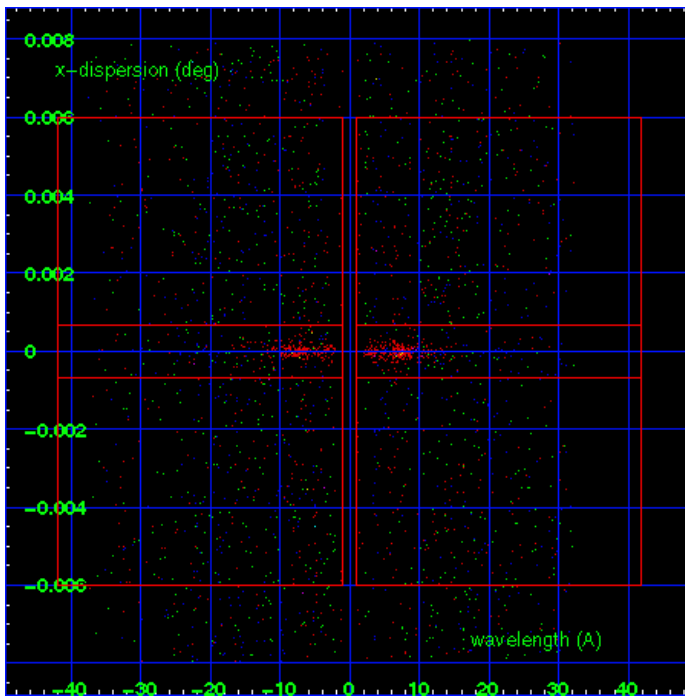
MEG Order Sort 123



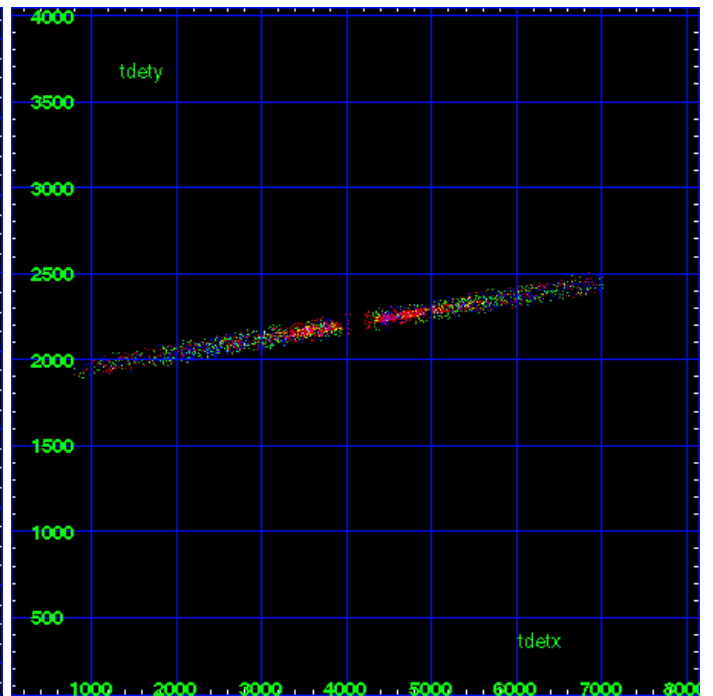
MEG Zero Order



MEG Order Sort ALL

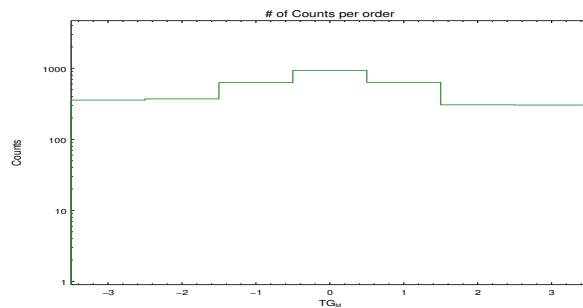


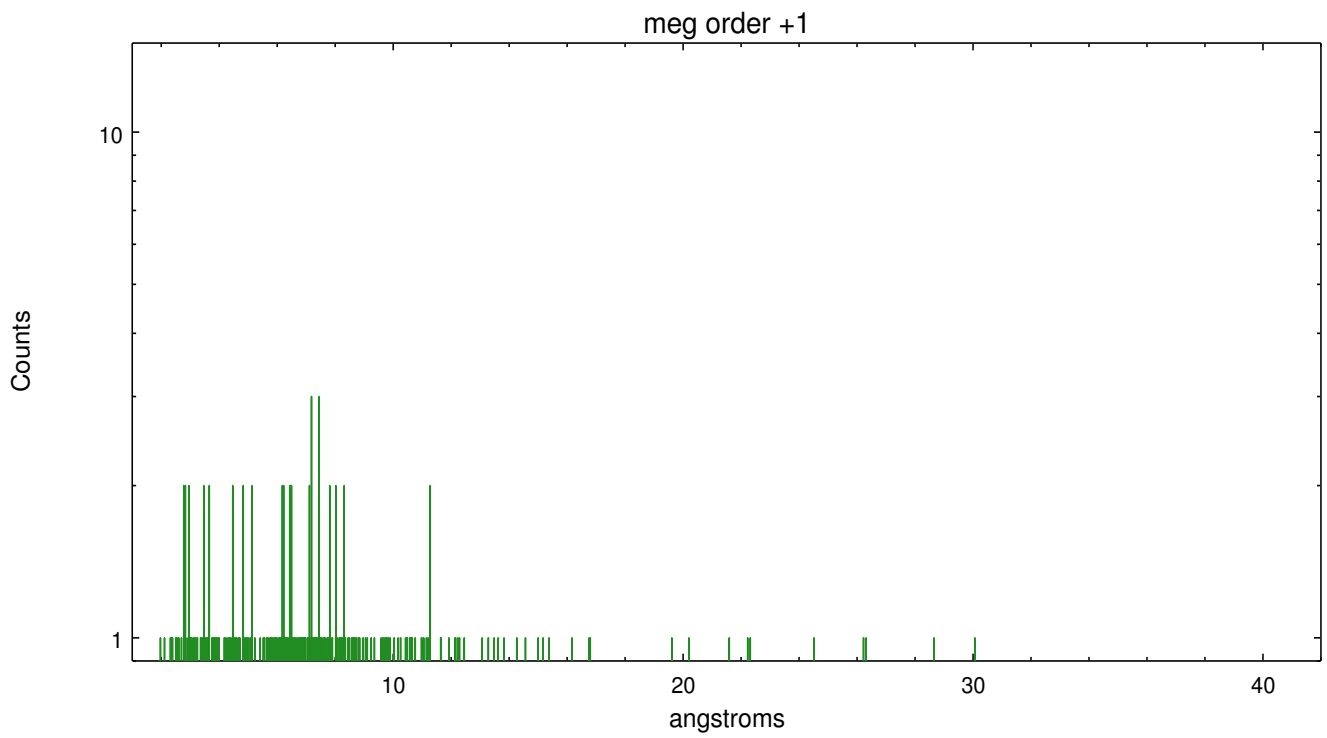
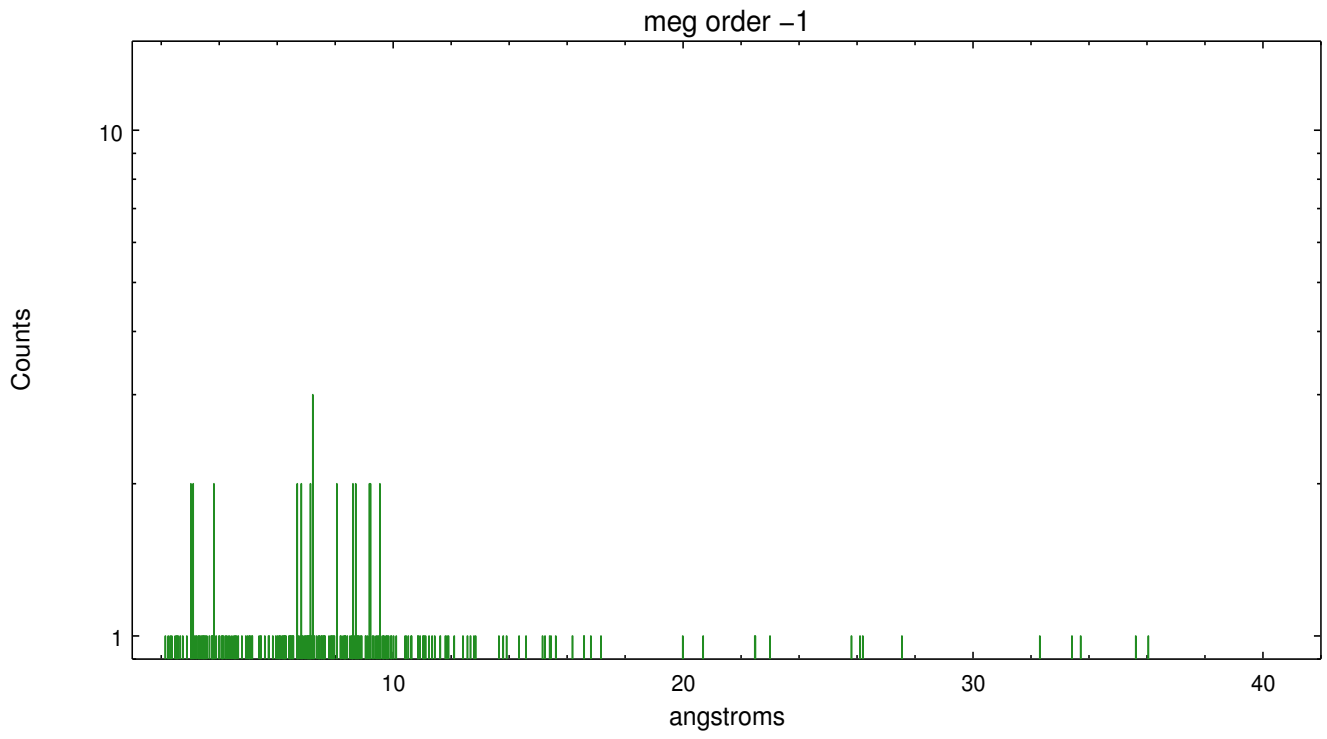
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	357	371	628	936	634	306	304





## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.0447998

### A.2 Comments