

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2671 - L2 Version 3  
Chandra X-Ray Center

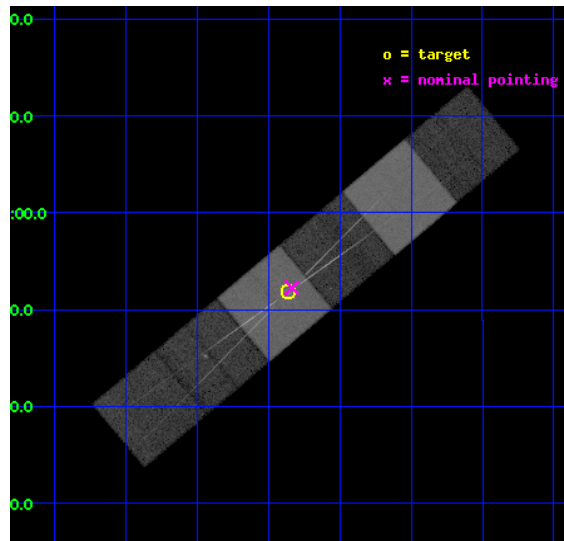
L2 Processing Date : Oct 8 2012

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# 1 Front

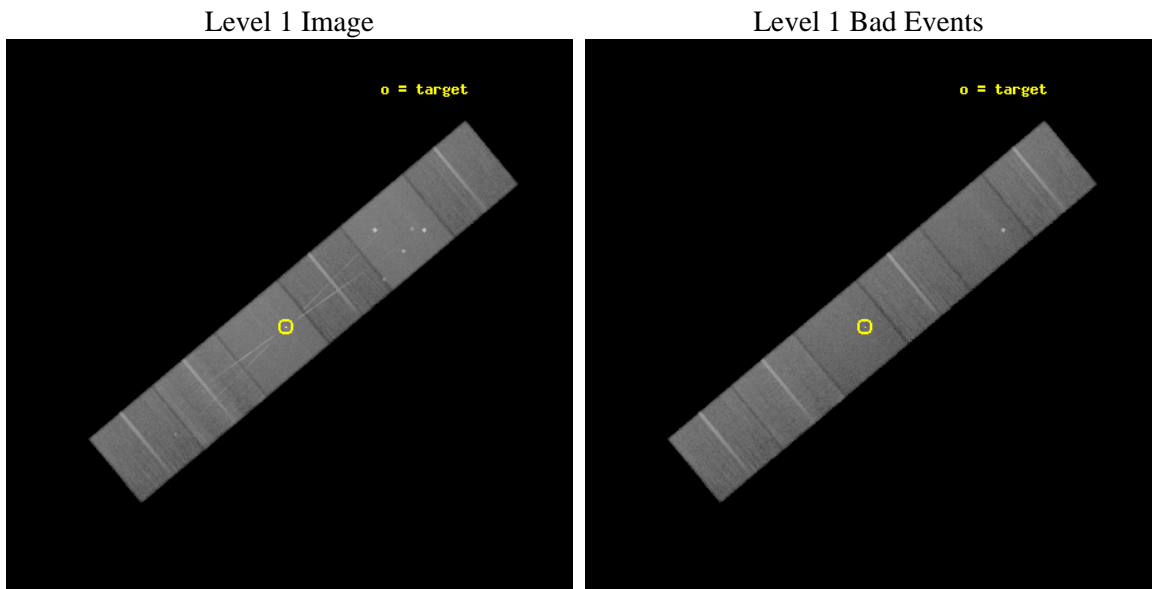
seq_num	300072	Sequence number
obs_id	2671	Observation id
title	ACCRETION IN HIGH DENSITY AND TEMPERATURE CONDITIONS (V426 OPH)	Pr
observer	Dr.. PAULA SZKODY	Principal investigator
object	V426 OPH	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	271.965417	Observer's specified target RA [deg]
dec_targ	5.863472	Observer's specified target Dec [deg]
ra_nom	271.95915793406	Nominal RA [deg]
dec_nom	5.8709145097601	Nominal Dec [deg]
roll_nom	140.06135950364	Nominal Roll [deg]
revision	3	Processing version of data
ontime	45174.399831712	Sum of GTIs [s]
livetime	44602.374380285	Livetime [s]
ontime4	45171.158851415	Sum of GTIs [s]
ontime5	45174.399831712	Sum of GTIs [s]
ontime6	45174.399831712	Sum of GTIs [s]
ontime7	45174.399831712	Sum of GTIs [s]
ontime8	45171.158851445	Sum of GTIs [s]
ontime9	45167.917881161	Sum of GTIs [s]
l2events	475988	Number of level 2 events



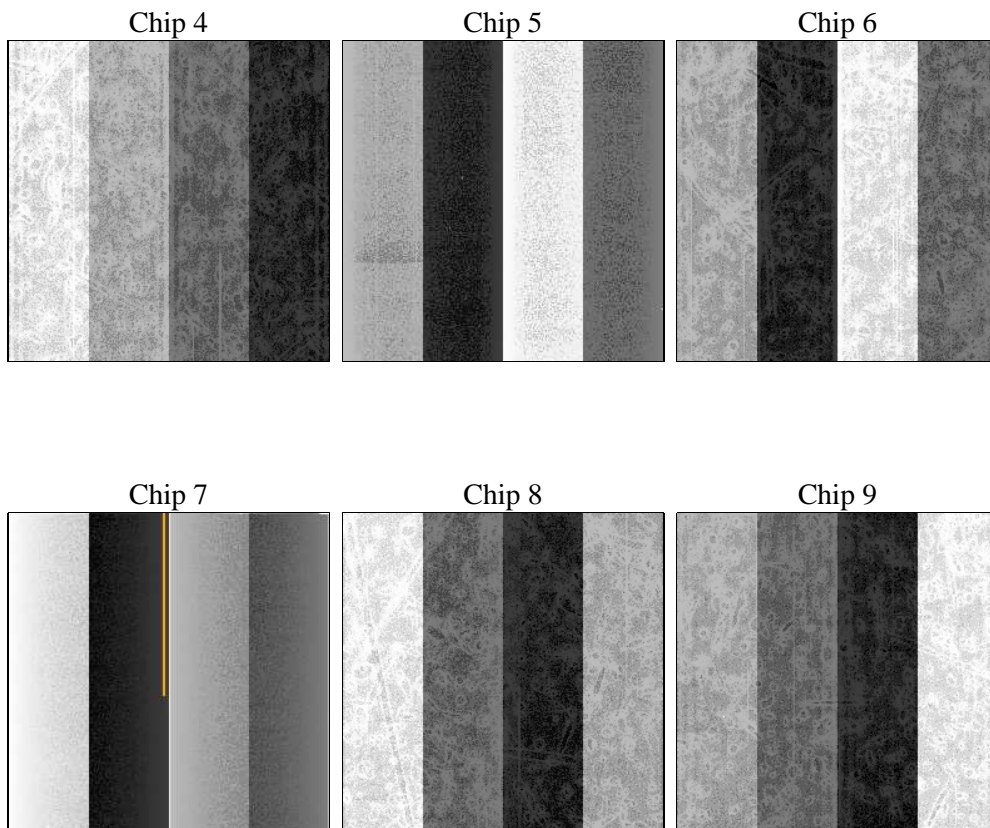
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	45174.399831712	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	45171.158851415	Sum of GTIs [s]
date	2012-10-08T09:16:07	Date and time of file creation	ontime5	45174.399831712	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	45174.399831712	Sum of GTIs [s]
			ontime7	45174.399831712	Sum of GTIs [s]
			ontime8	45171.158851445	Sum of GTIs [s]
			ontime9	45167.917881161	Sum of GTIs [s]
			l1events	2112902	Number of level 1 events

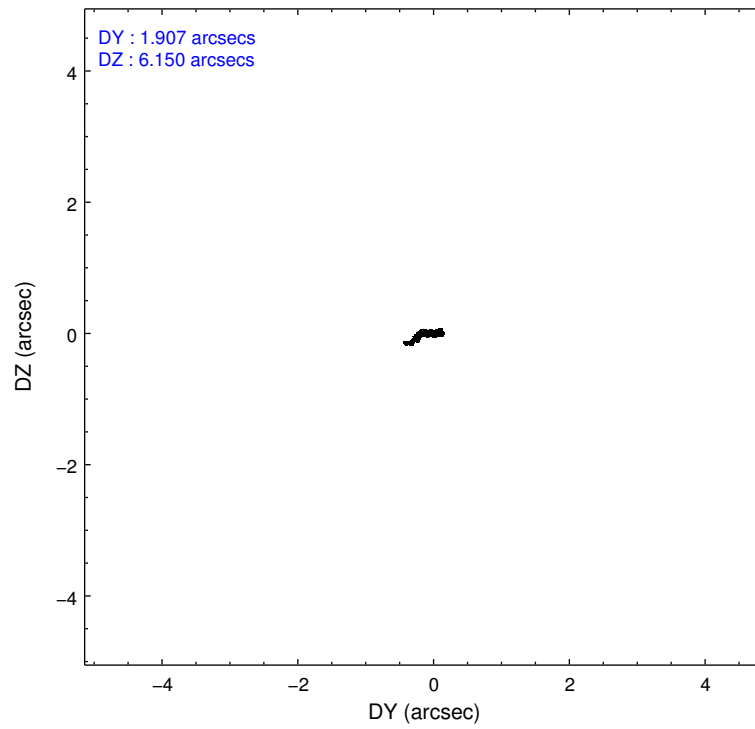
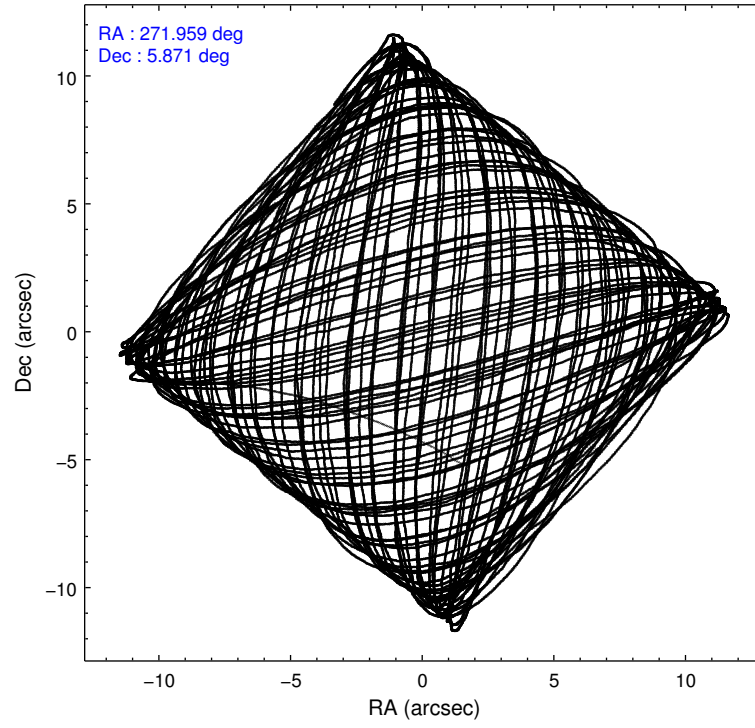
### 2.1.4 Events

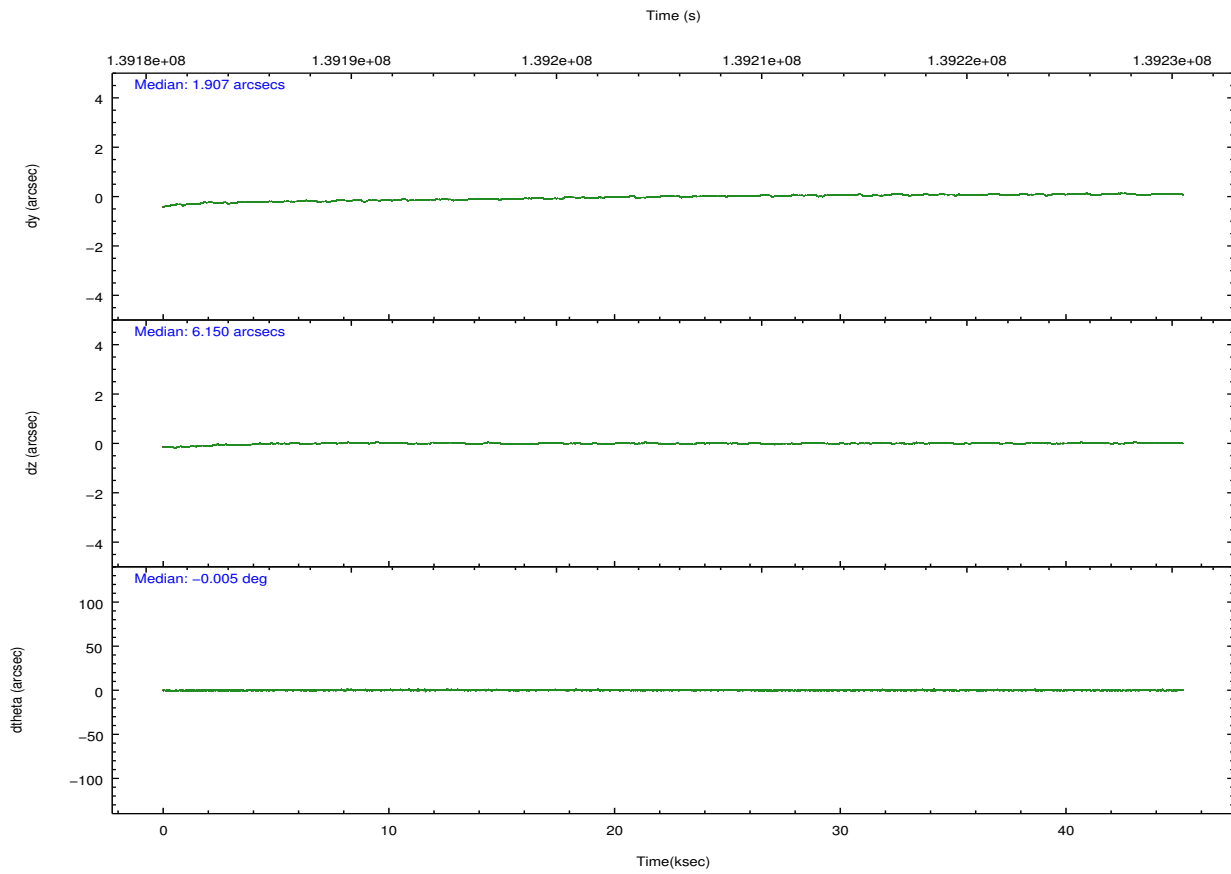
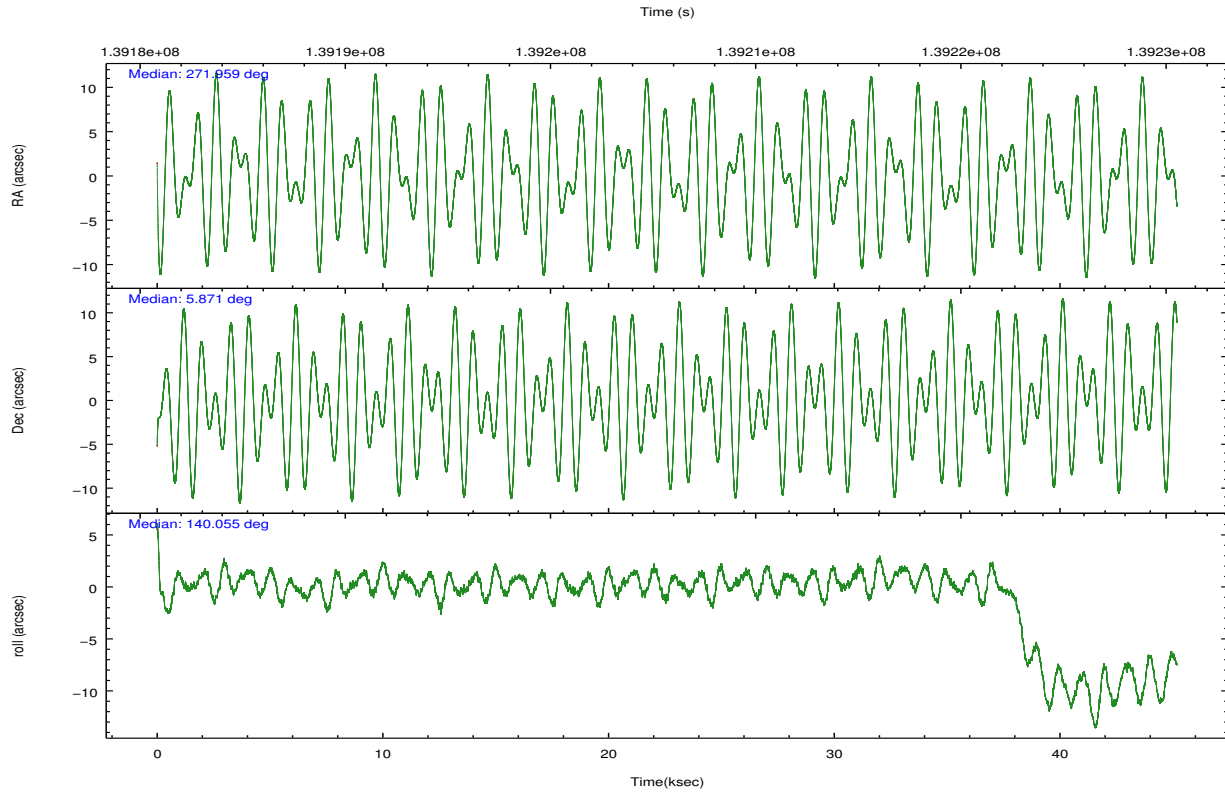
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	318452	431081	298121	401624	373922	289702	grade 0 events	13917	25725	20678	17396	27494	14590
rejected events	283924	233235	255000	228475	292800	254175		4%	5%	6%	4%	7%	5%
rejected %	89%	54%	85%	56%	78%	87%	grade 1 events	134	576	172	607	243	108
								0%	0%	0%	0%	0%	0%
							grade 2 events	8517	58594	8107	34578	17006	7409
								2%	13%	2%	8%	4%	2%
							grade 3 events	3035	8320	3751	15915	8653	3359
								0%	1%	1%	3%	2%	1%
							grade 4 events	3101	7469	3590	15712	8044	3230
								0%	1%	1%	3%	2%	1%
							grade 5 events	10835	34056	12582	37492	16275	13174
								3%	7%	4%	9%	4%	4%
							grade 6 events	6129	99311	7198	90729	20298	7160
								1%	23%	2%	22%	5%	2%
							grade 7 events	272784	197030	242043	189195	275909	240672
								85%	45%	81%	47%	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	271.986196	271.9591579340629	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.866547	5.870914509760118	Alternating exposures requested	N	N
[deg] Pointing Roll	139.901968	140.0613595036416	[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)	139183269.184000	139182025.97403			
Observation start date	2002-05-30T22:00:05	2002-05-30T21:40:25			
[s] Observation end time (MET)	139228269.184000	139230146.65099			
Observation end date	2002-05-31T10:30:05	2002-05-31T11:02:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect



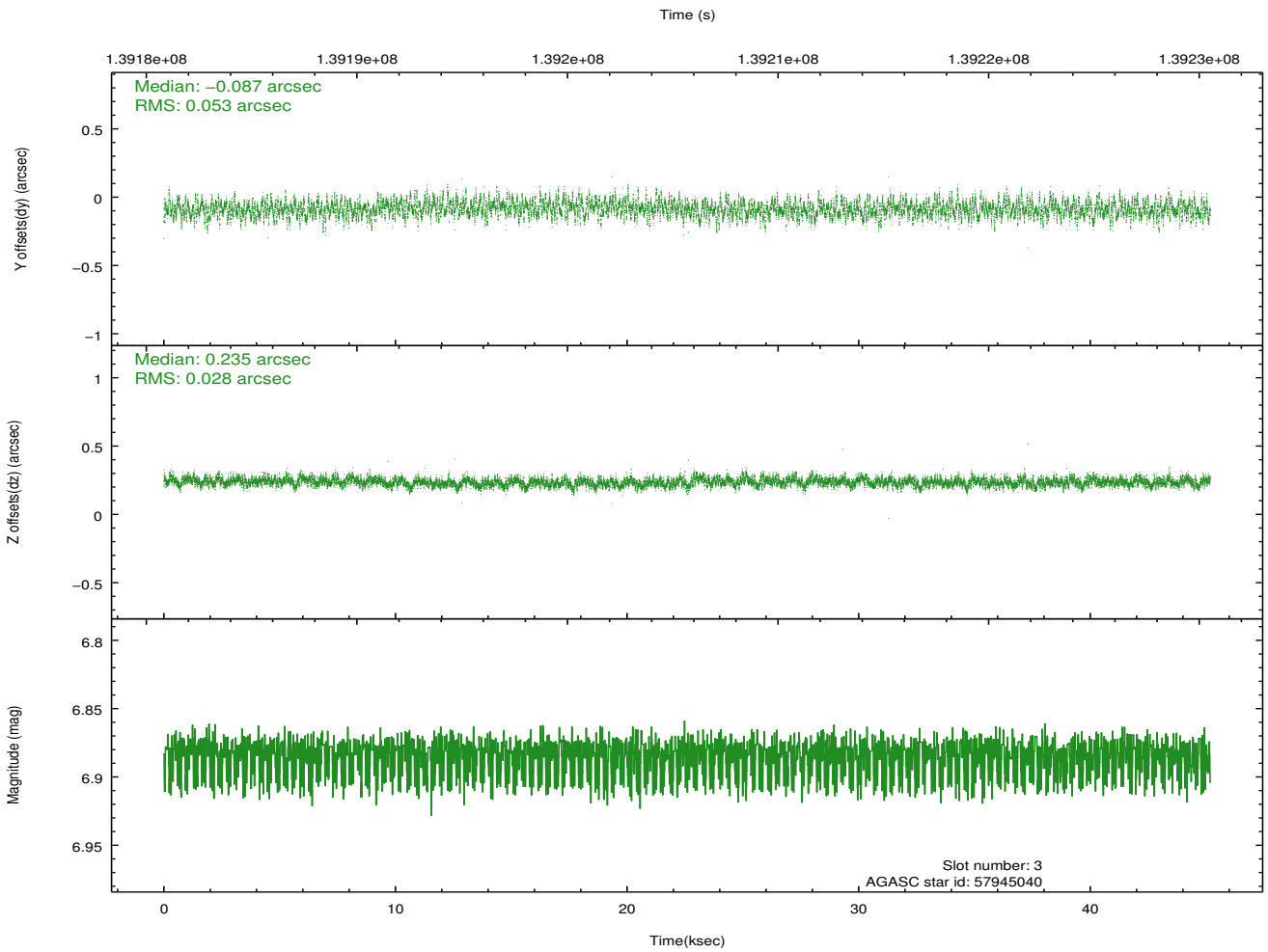
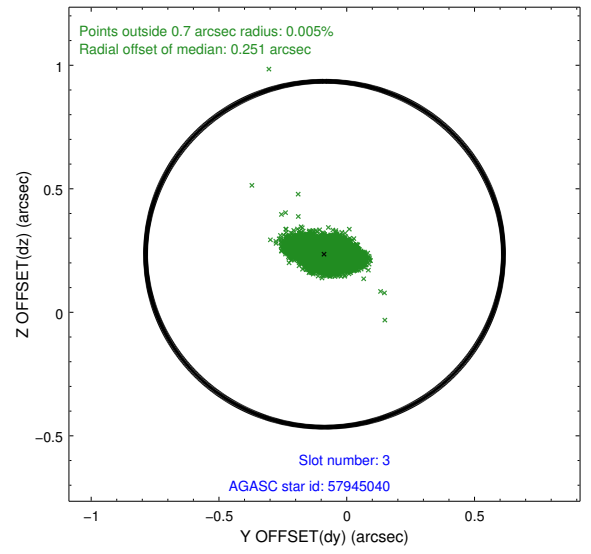
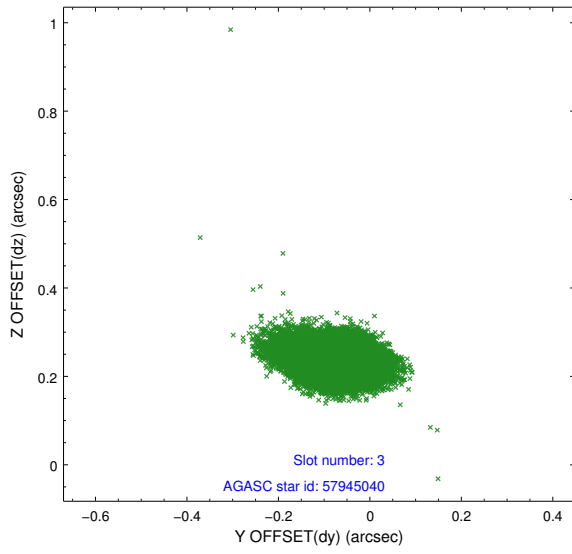


### Slot Statistics

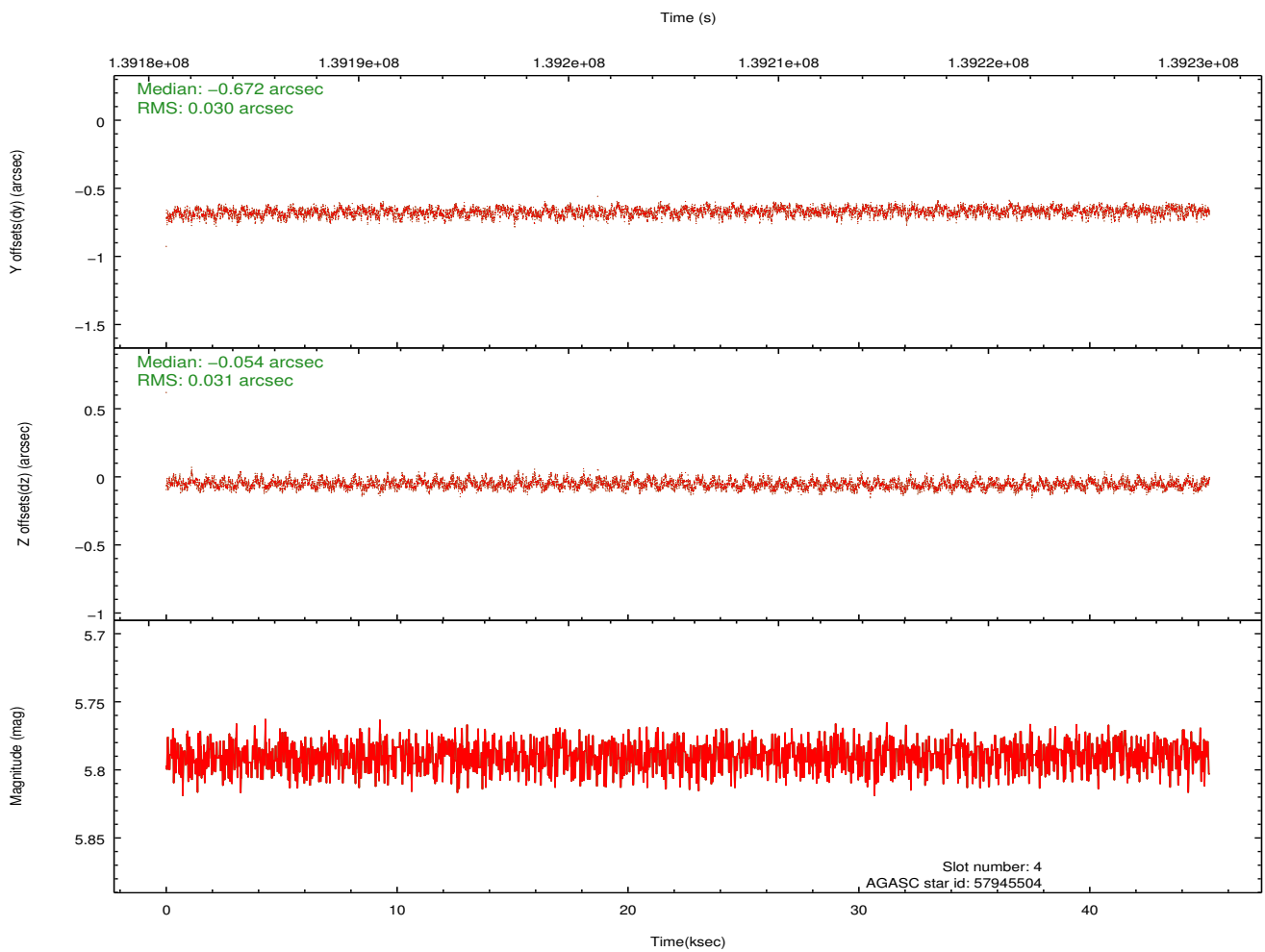
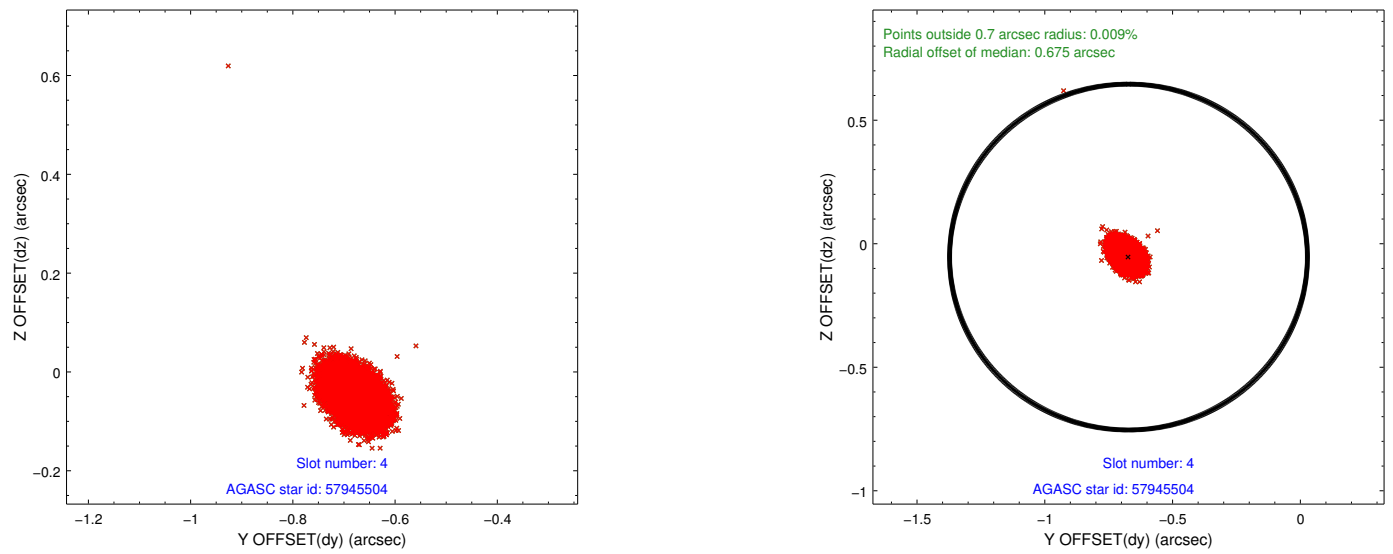
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	11019	-0.051	0.005	0.007	0.012	0.000000	0.000000	-754.49	-1727.30
1	FID	ACIS-S-4	7.21	11017	-0.012	0.023	0.005	0.010	0.000000	0.000000	2158.79	181.27
2	FID	ACIS-S-5	7.24	11021	0.032	-0.019	0.007	0.011	0.000000	0.000000	-1807.30	174.81
3	GUIDE	57945040	6.88	22034	-0.087	0.235	0.061	0.108	271.821139	6.701487	2387.67	-1918.85
4	BAD	57945504	5.79	11020	-0.672	-0.054	0.045	0.073	271.843633	6.542803	1958.24	-1533.66
5	GUIDE	57550048	8.14	22035	0.102	-0.216	0.060	0.098	272.033669	5.149142	-1793.84	1865.39
6	GUIDE	57563072	8.71	22037	0.186	-0.128	0.069	0.111	272.067918	5.310546	-1513.46	1342.11
7	GUIDE	58077512	8.95	22028	0.134	0.137	0.076	0.121	272.678944	5.979442	-1634.36	-1909.78

## 2.4 Star Slots

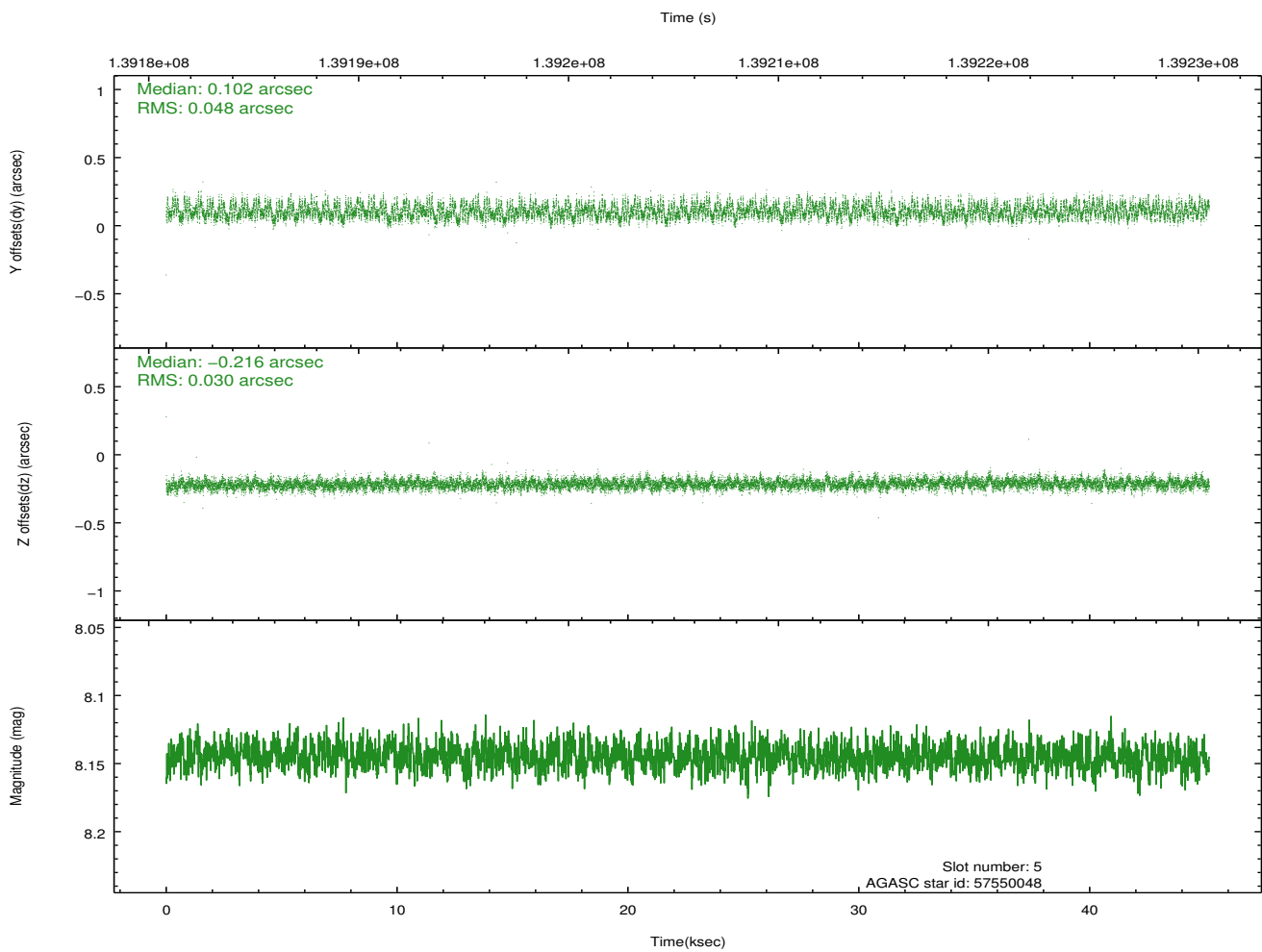
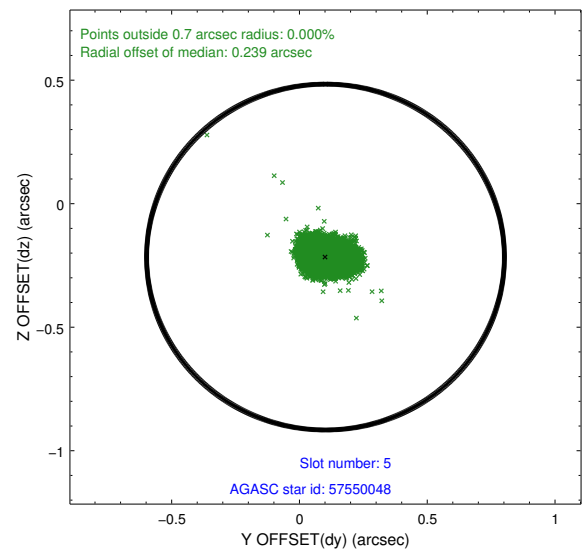
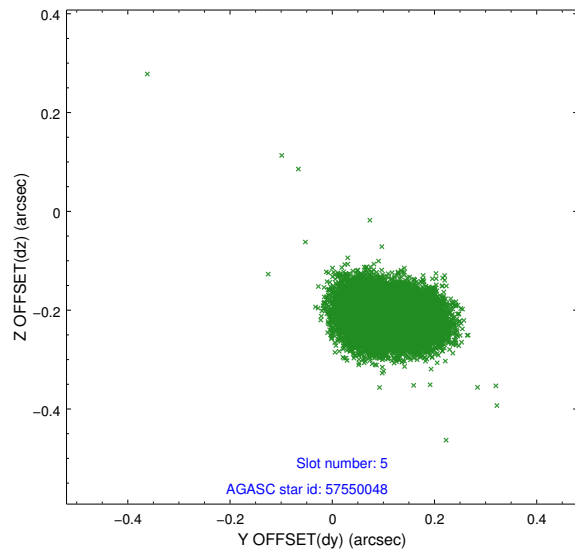
### 2.4.1 Slot 3



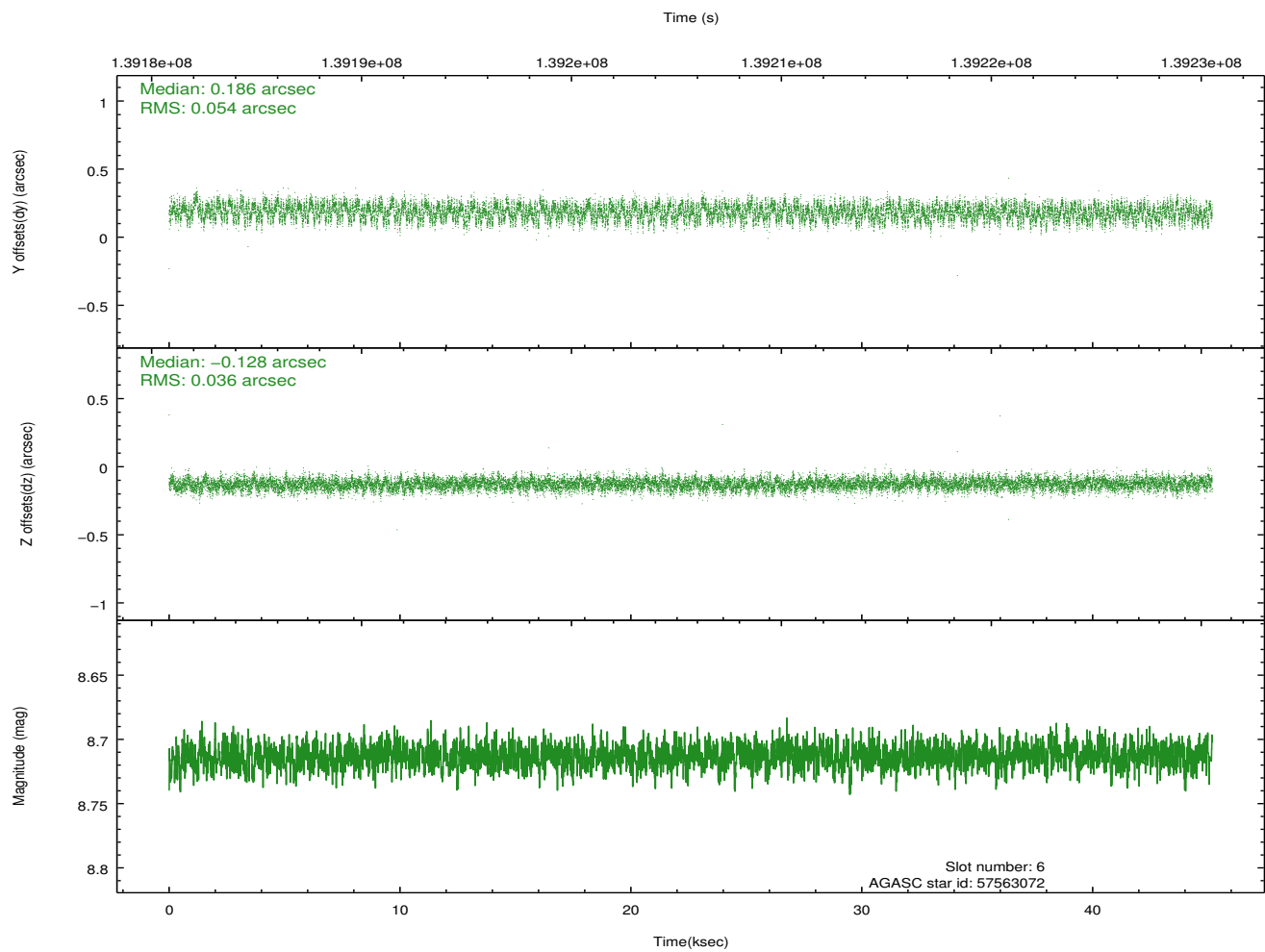
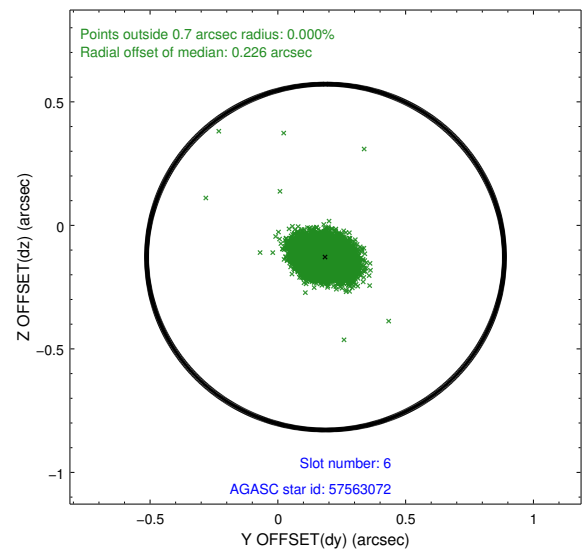
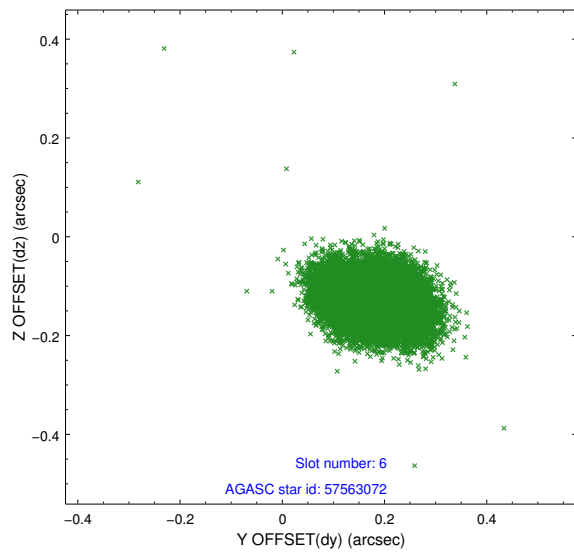
## 2.4.2 Slot 4



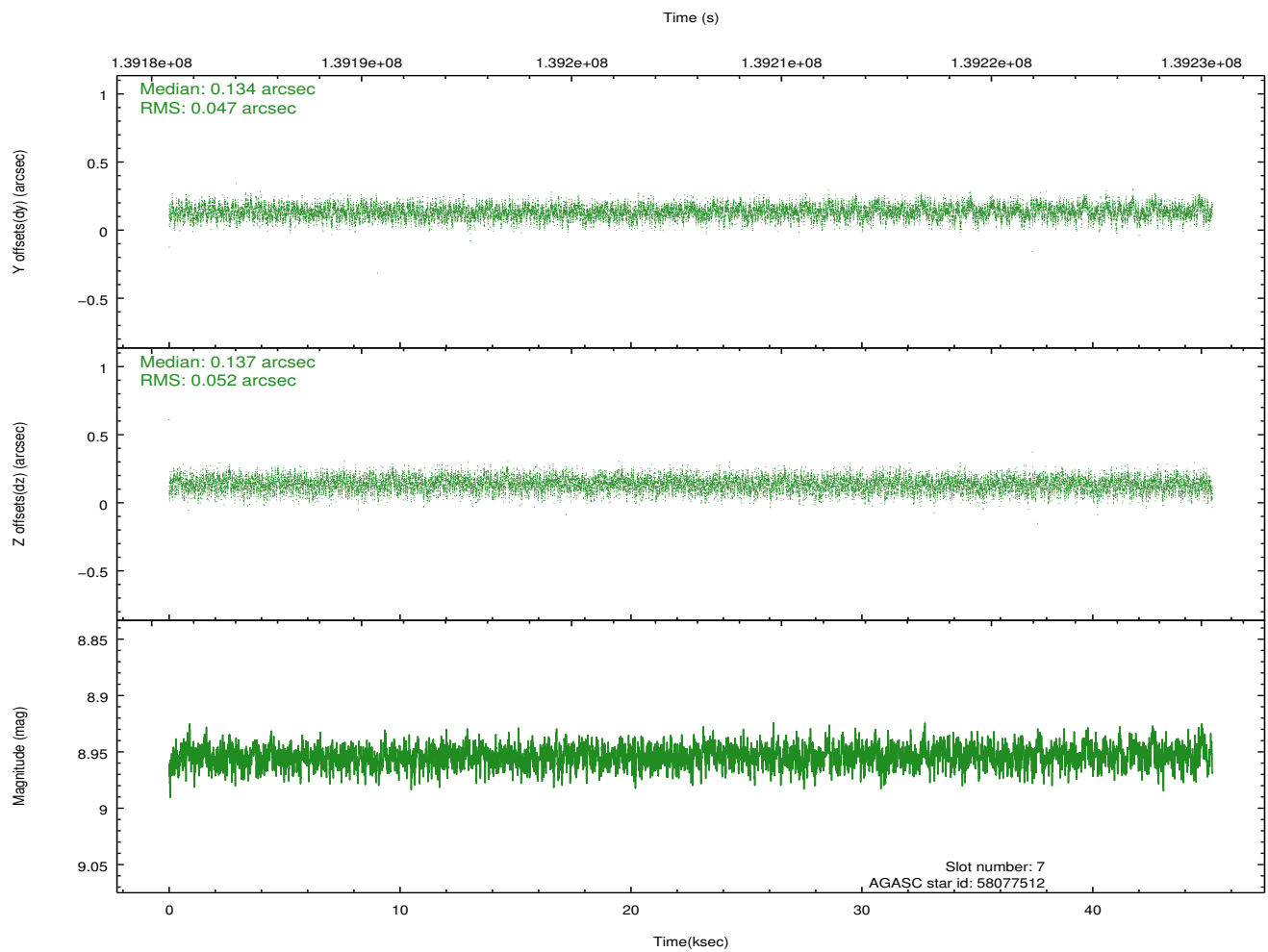
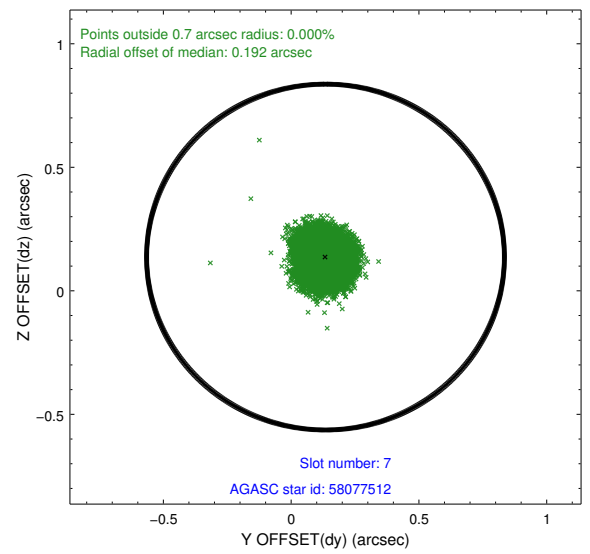
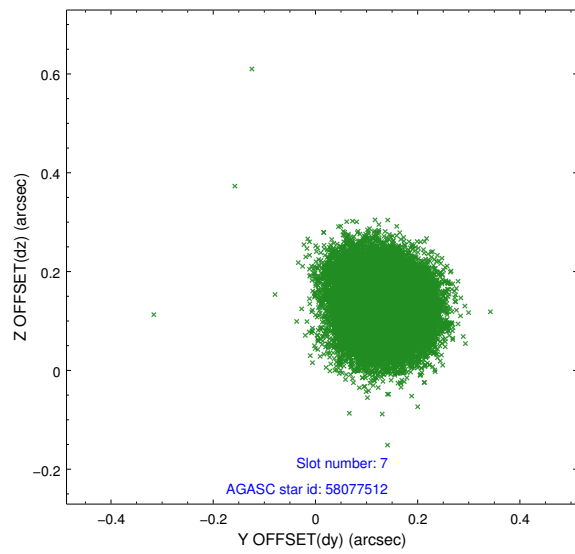
### 2.4.3 Slot 5



## 2.4.4 Slot 6

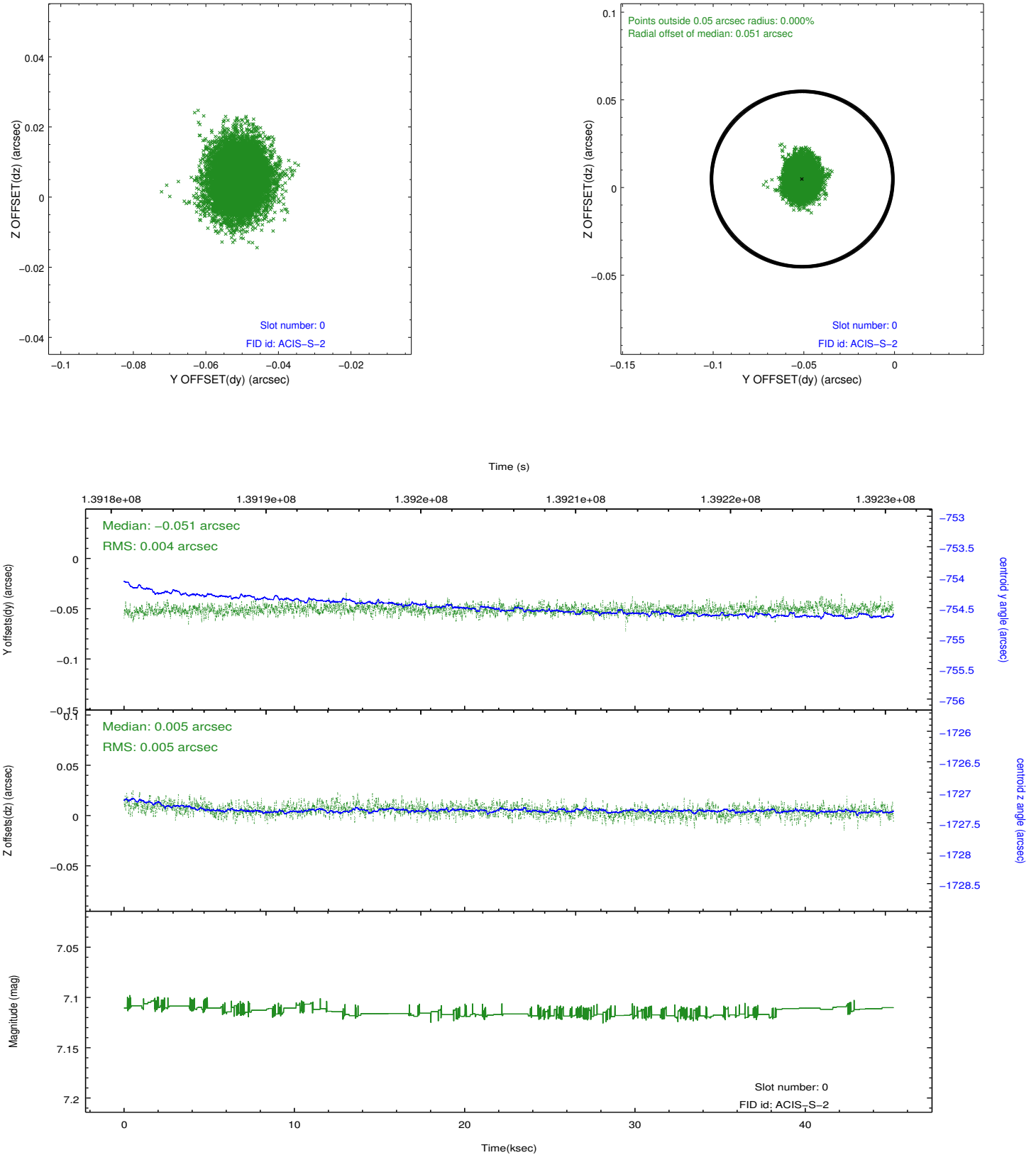


## 2.4.5 Slot 7

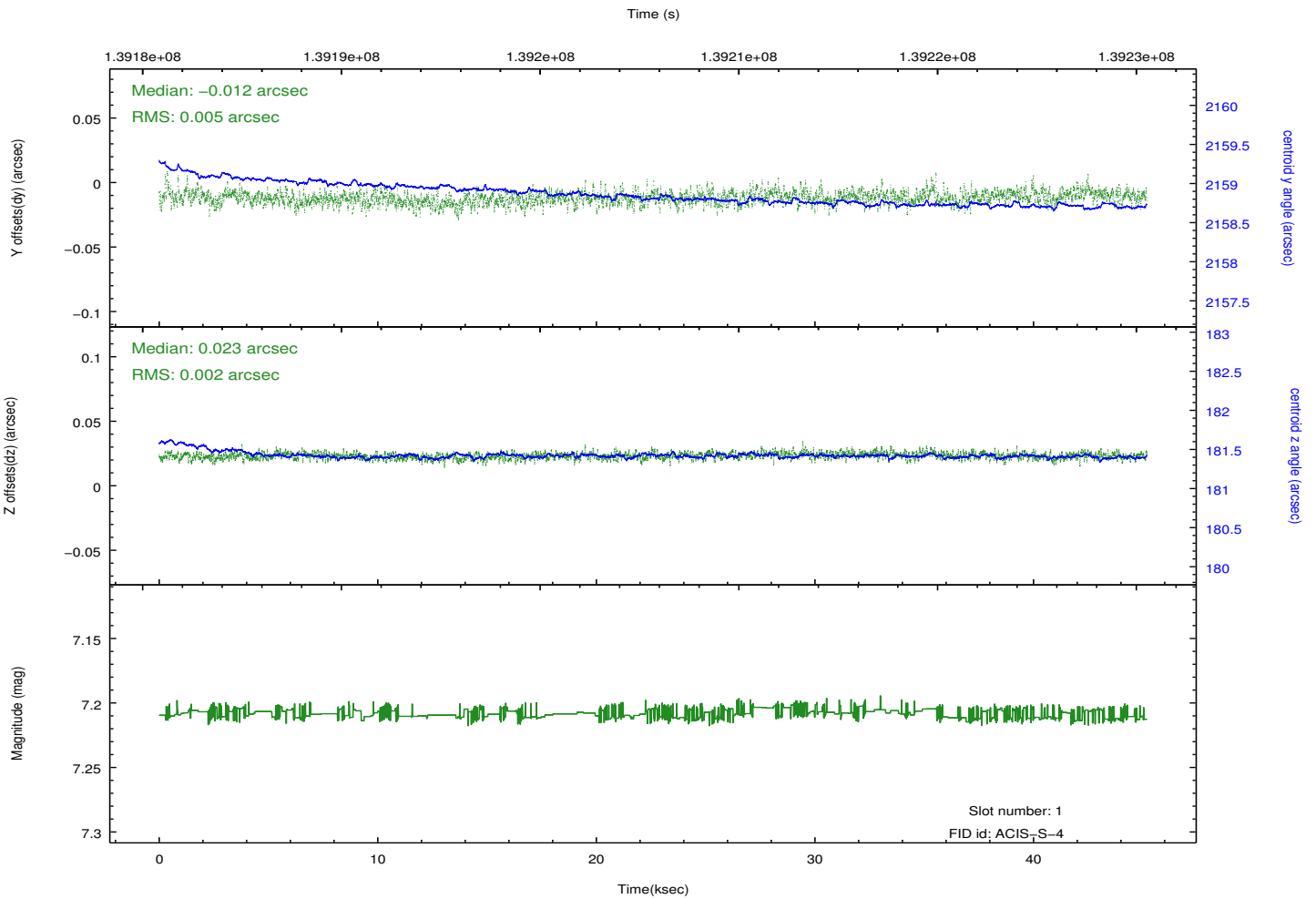
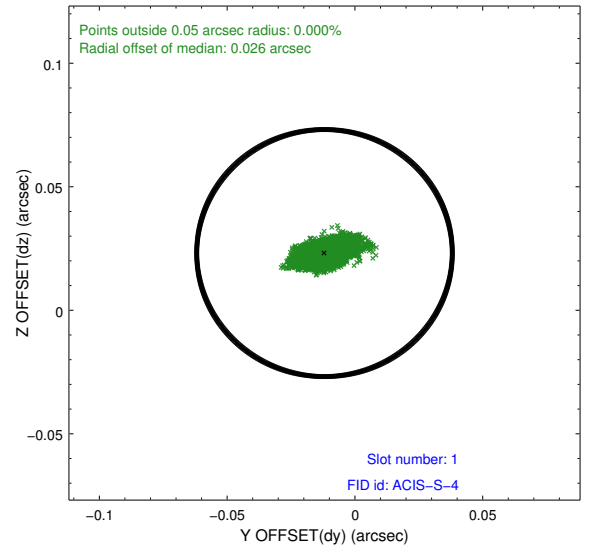
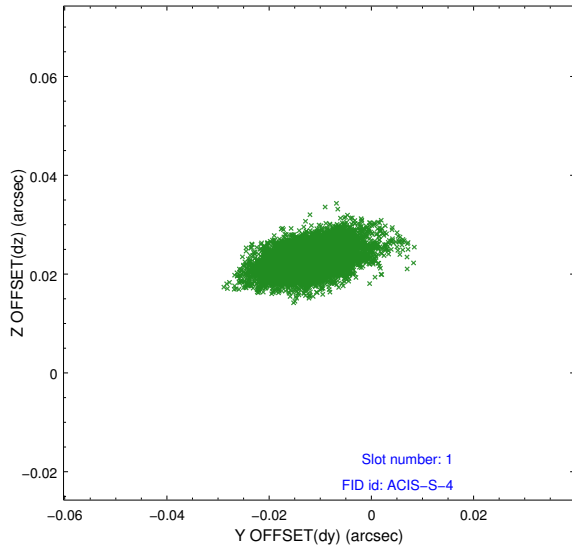


## 2.5 FID Slots

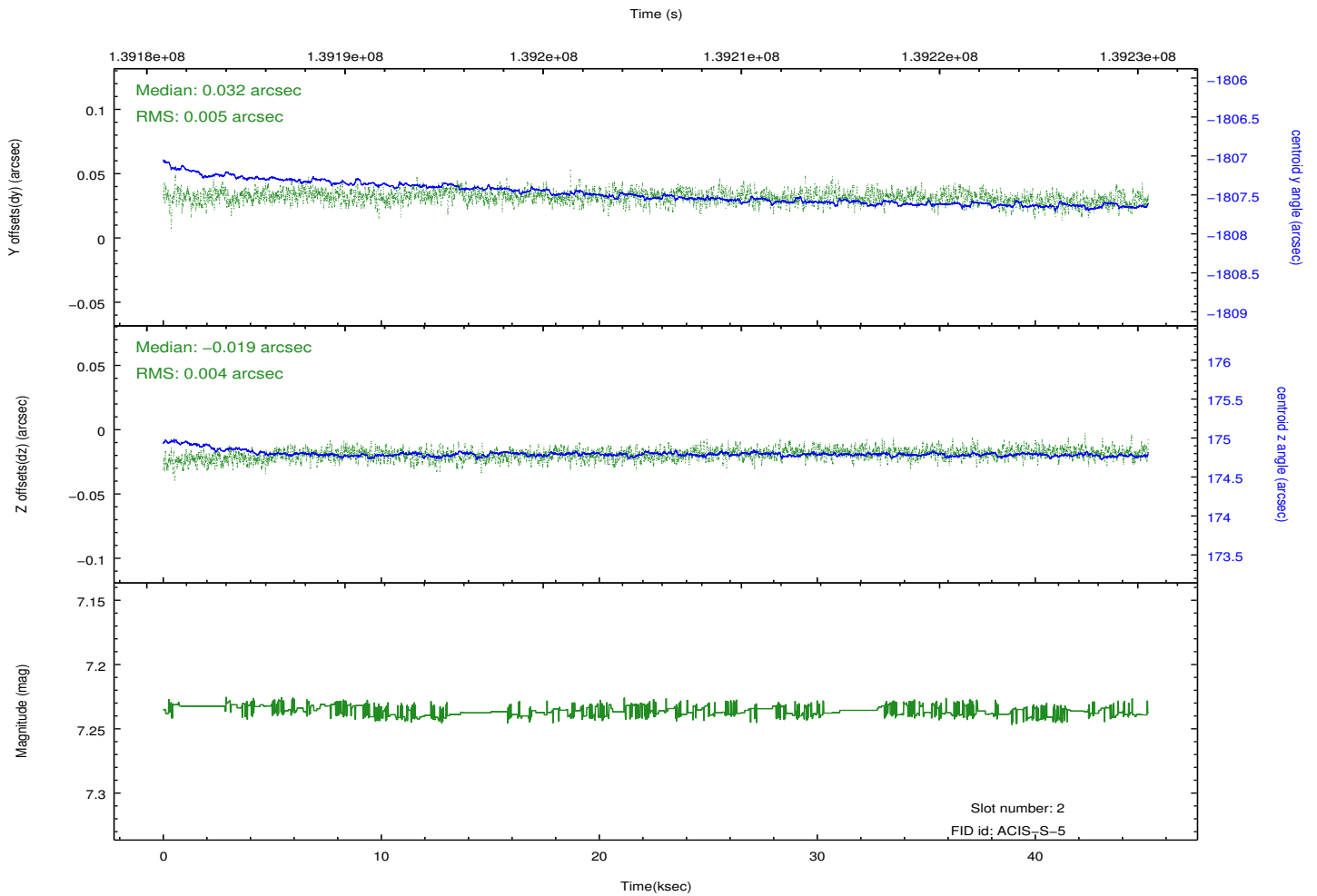
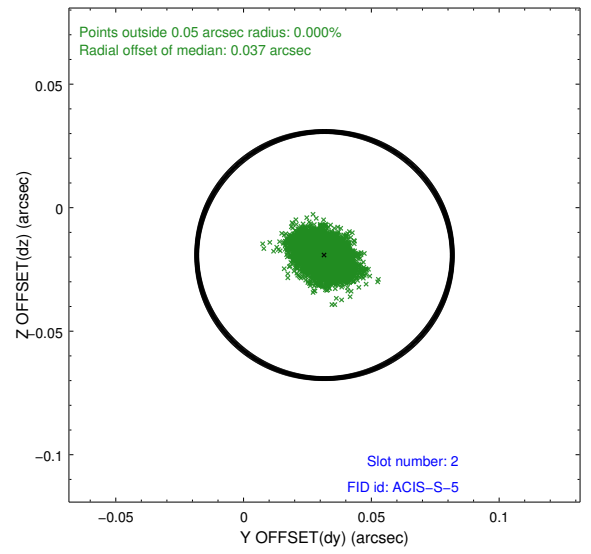
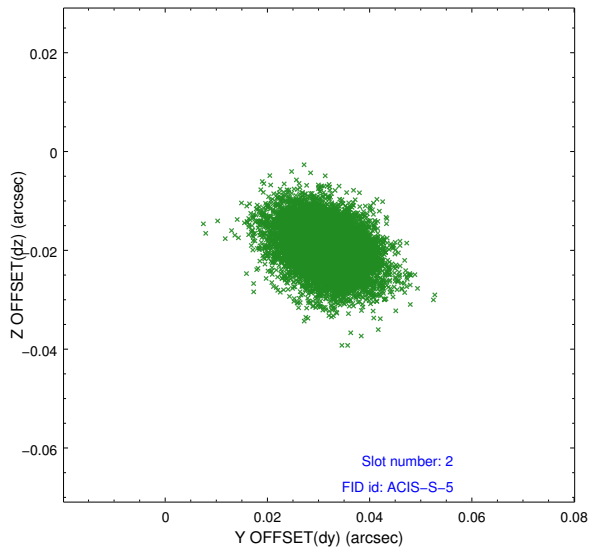
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2

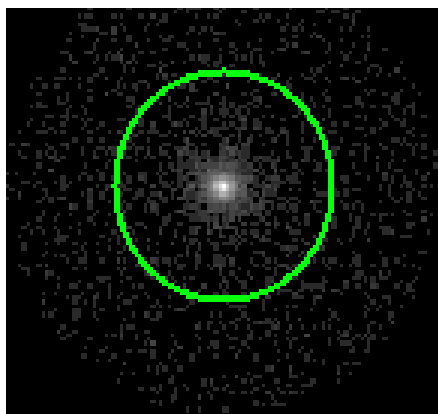


### 3 Gratings

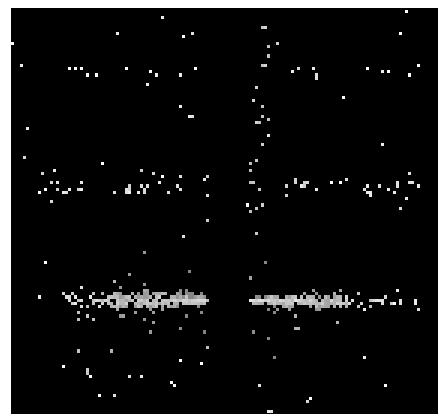
#### 3.1 HEG Arm



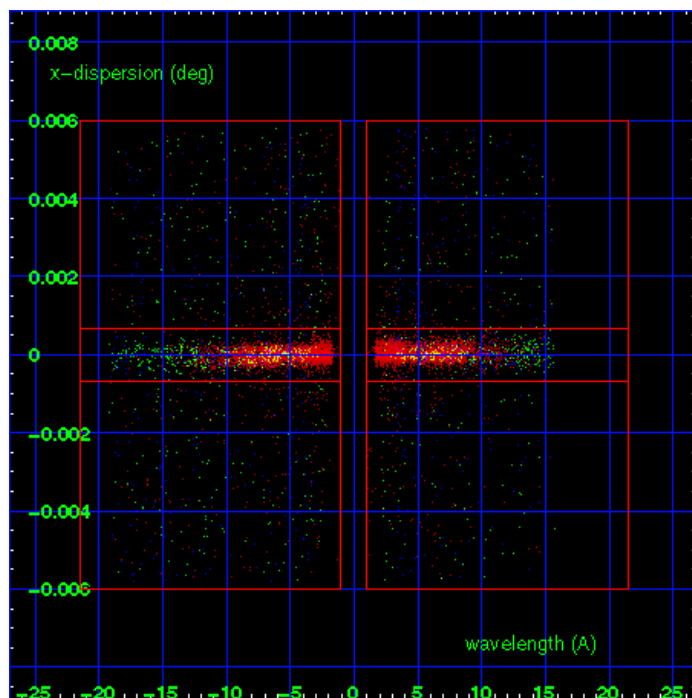
HEG Order Sort 123



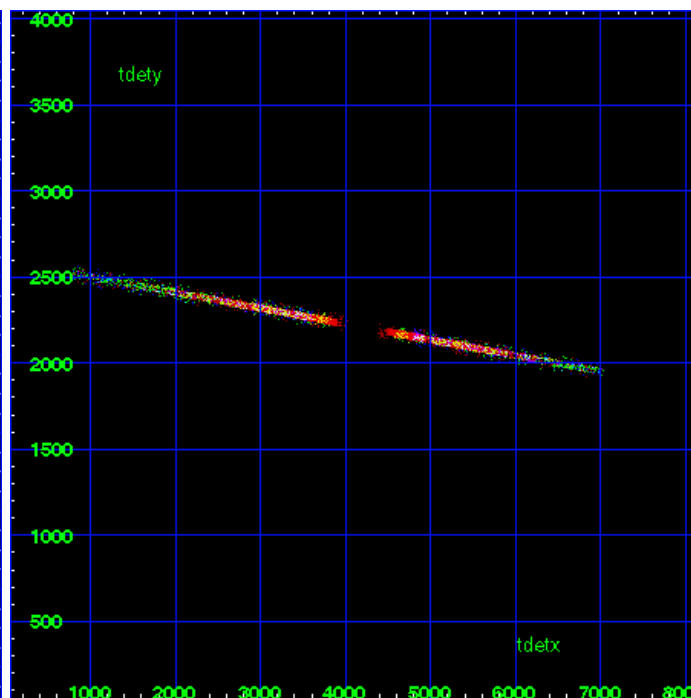
HEG Zero Order



HEG Order Sort ALL

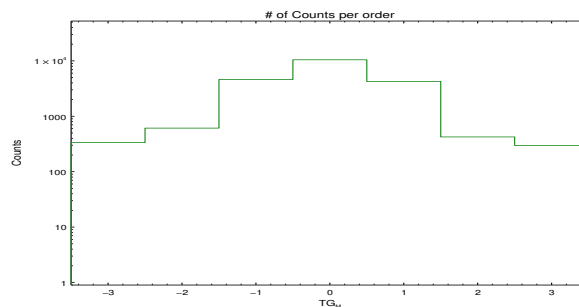


Spot Image HEG

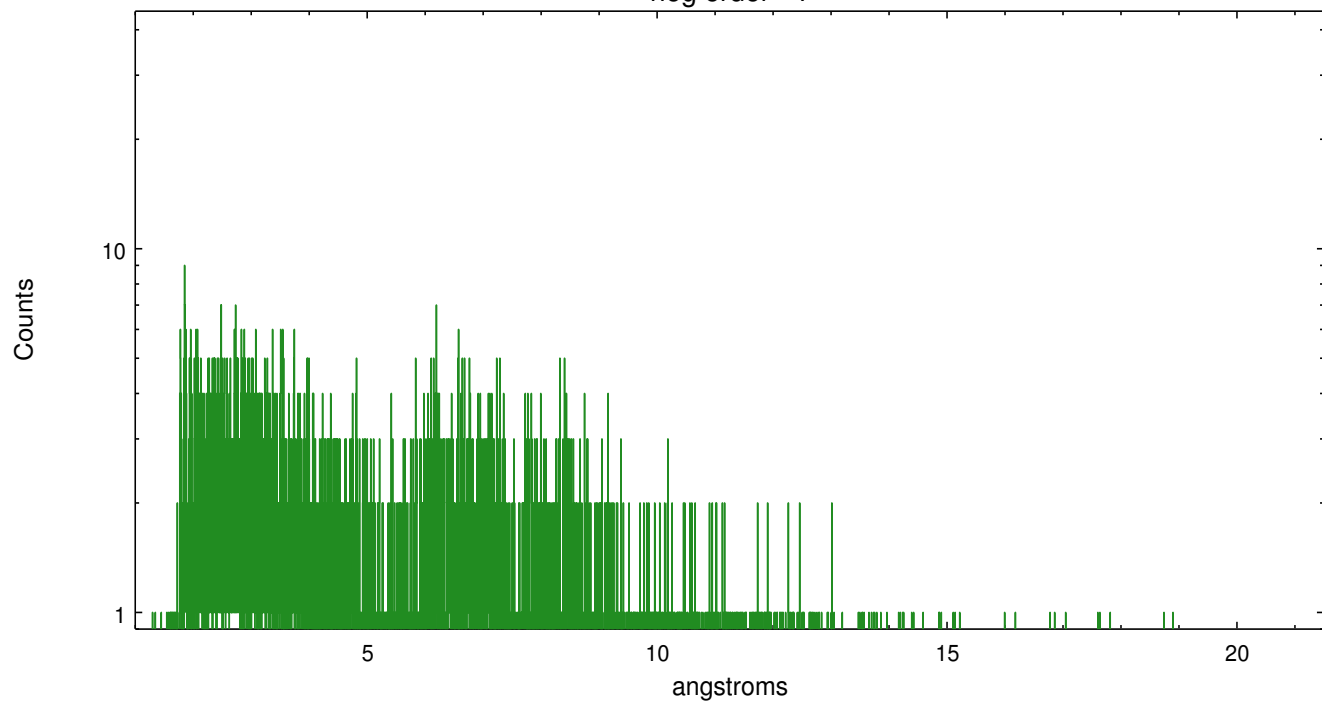


Full Detector HEG

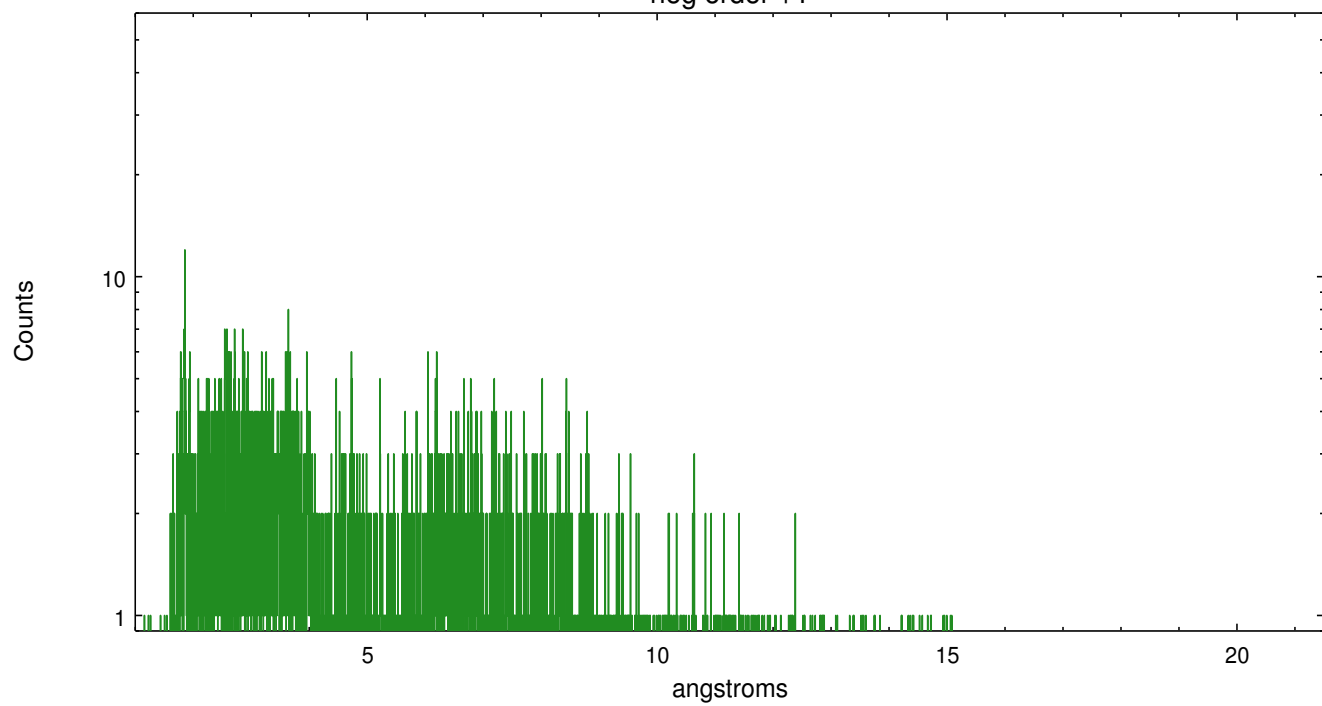
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	336	611	4607	10459	4252	424	298



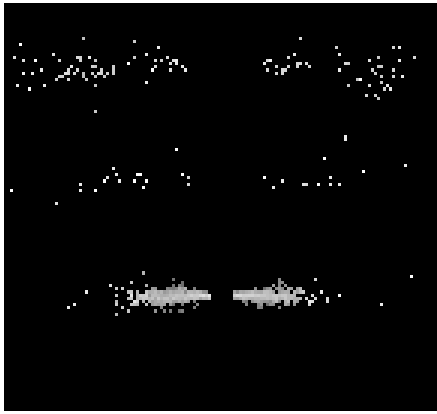
heg order -1



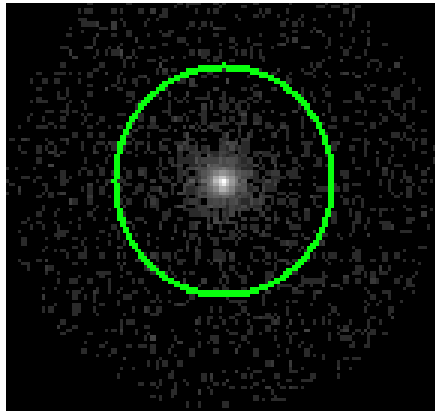
heg order +1



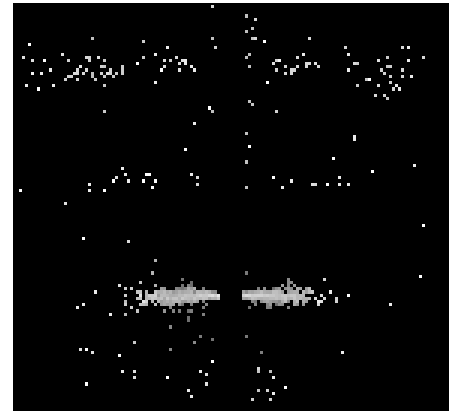
### 3.2 MEG Arm



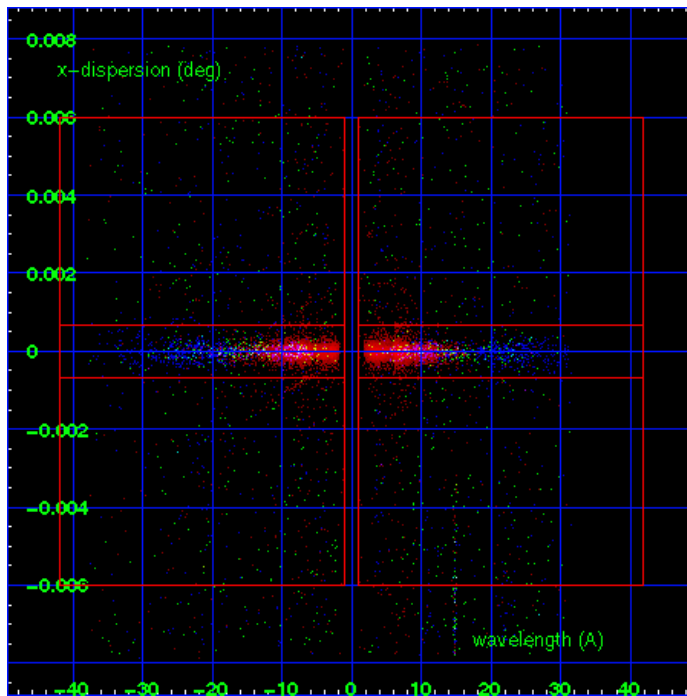
MEG Order Sort 123



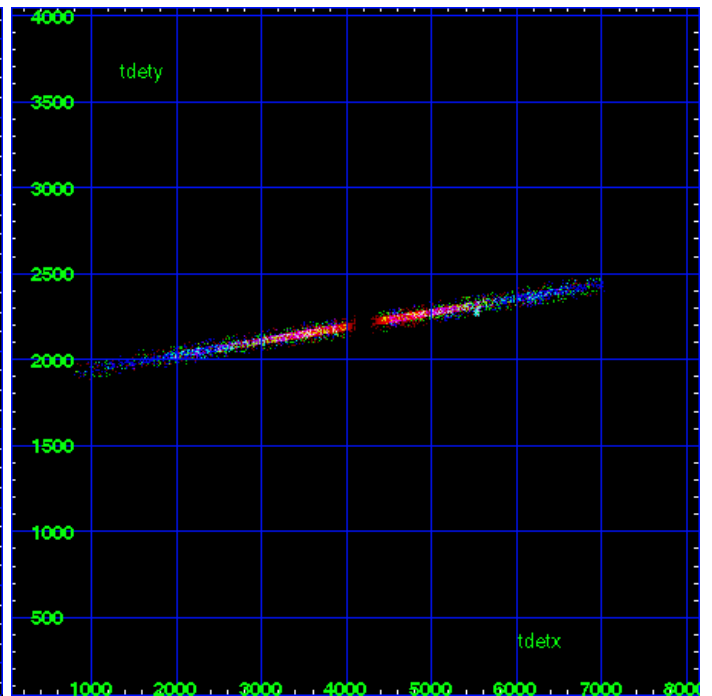
MEG Zero Order



MEG Order Sort ALL

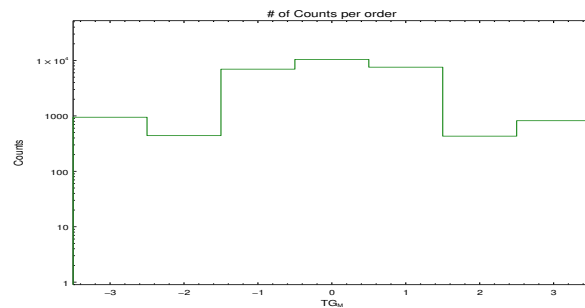


Spot Image MEG

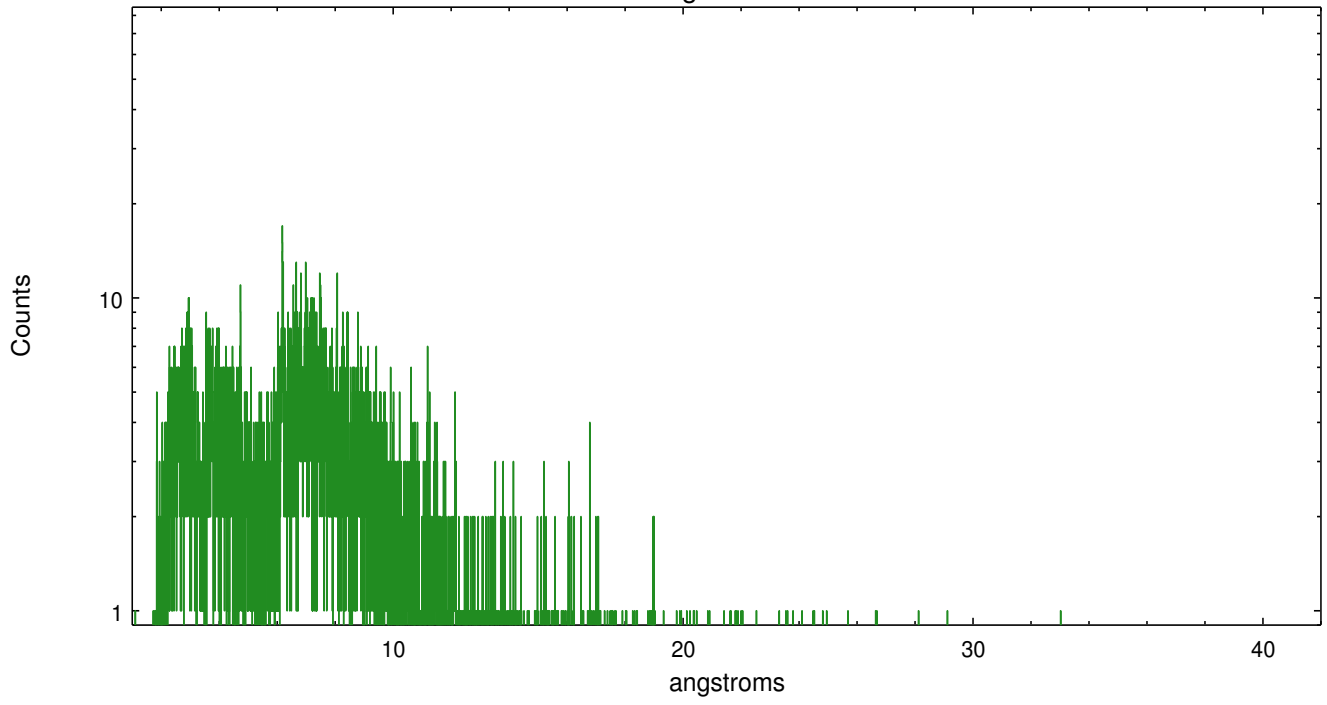


Full Detector MEG

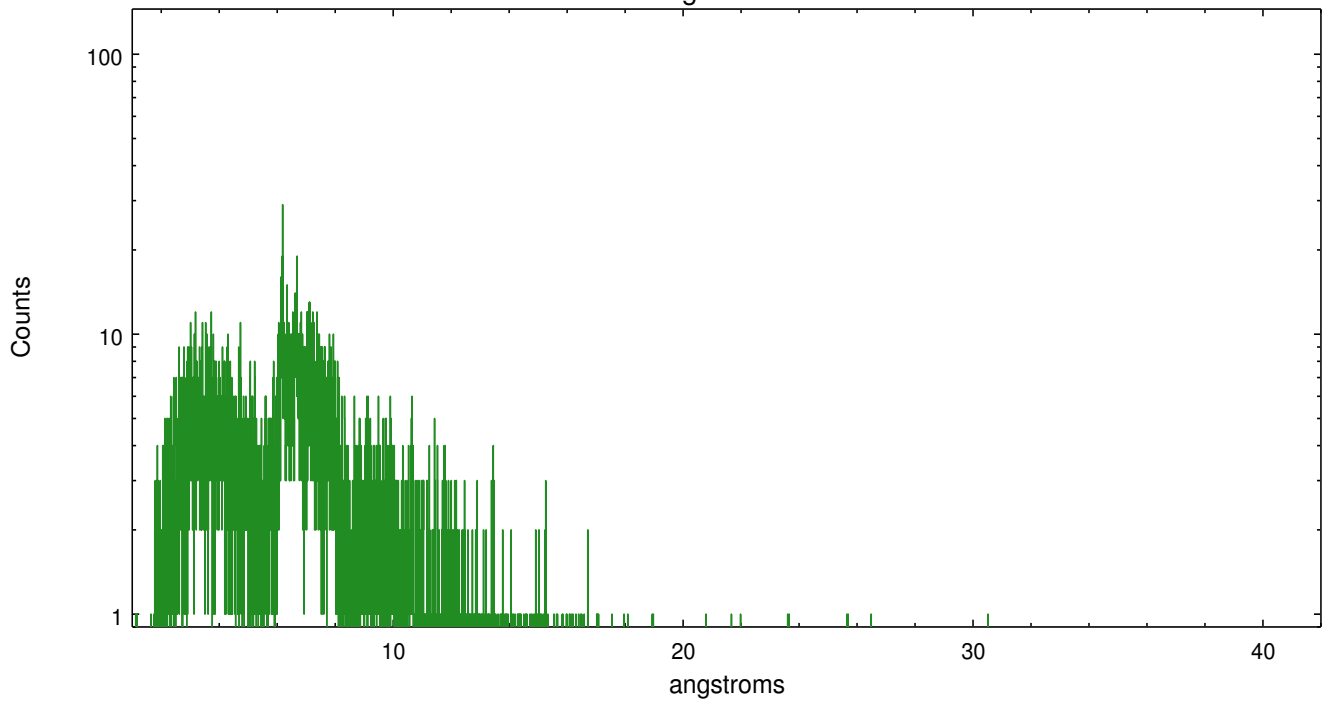
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	946	441	6973	10459	7572	431	820



meg order -1



meg order +1



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.145

### A.2 Comments