

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1901 - L2 Version 001  
Chandra X-Ray Center

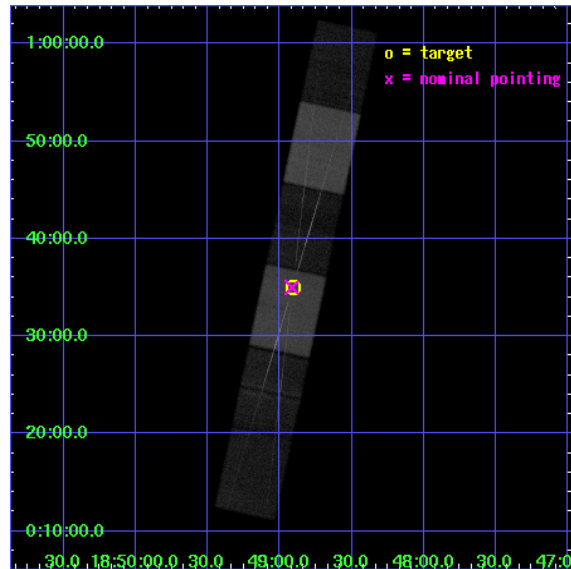
L2 Processing Date : Nov 15 2006

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# 1 Front

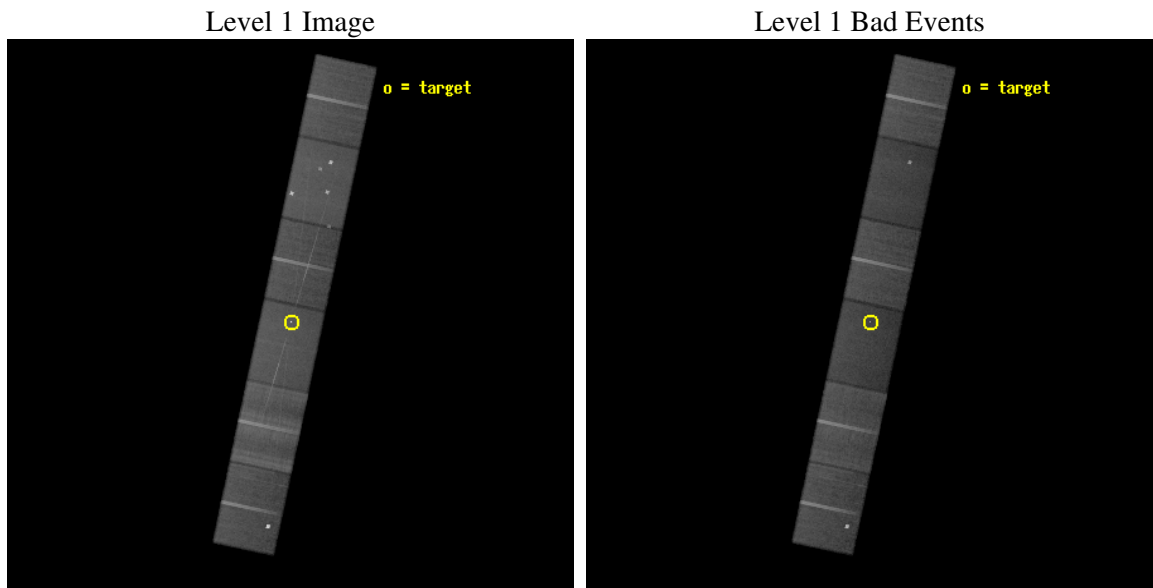
seq_num	300049
obs_id	1901
title	CHANDRA HETG OBSERVATION OF V603 AQUILAE, A HIGH ACCRETION RATE, NON-MAGNETIC CATAclysmic VARIABLE
observer	Dr KOJI MUKAI
object	V603 AQUILAE
dtcycle	0
cycle	P
ra_targ	282.227083
dec_targ	0.584167
ra_nom	282.22905480497
dec_nom	0.58318856198776
roll_nom	102.05567441275
revision	2
ontime	64647.459039778
livetime	63603.346503575
ontime4	64642.377089381
ontime5	64647.459039778
ontime6	64650.0
ontime7	64647.459039778
ontime8	64647.459009856
ontime9	64650.0
l2events	559509



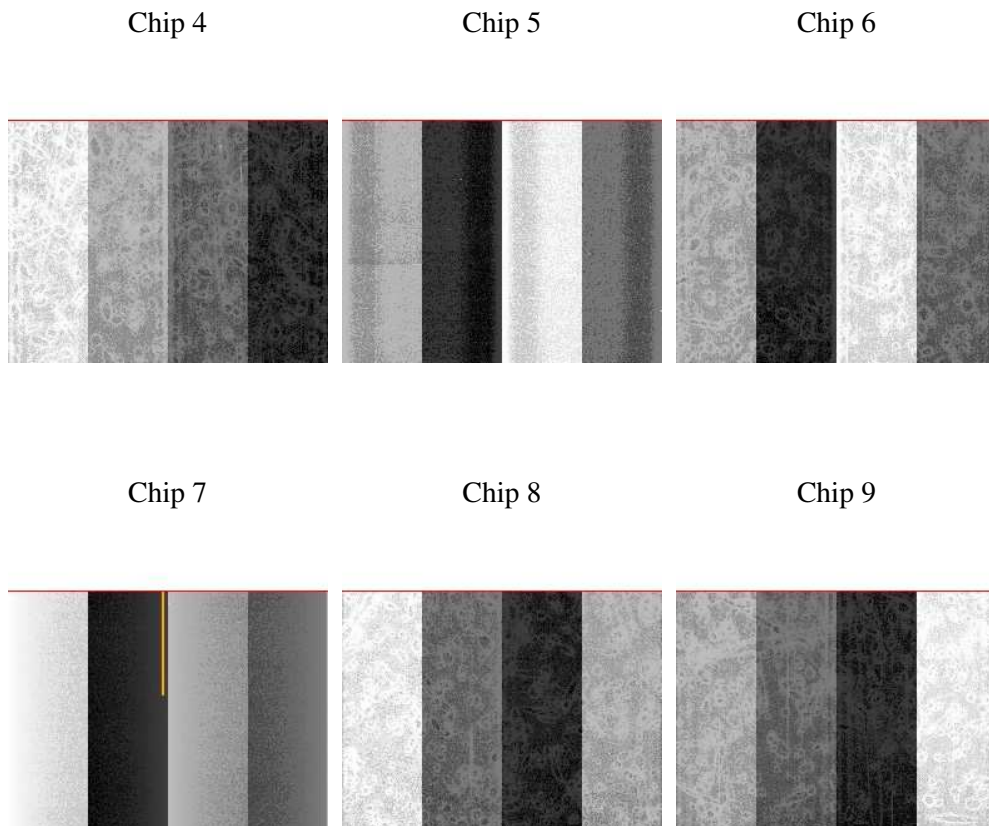
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-14T20:12:55
revision	2

sched_exp_time	64500.000000
ontime	64650.872107551
ontime4	64645.790157154
ontime5	64650.872107551
ontime6	64653.413067773
ontime7	64650.872107551
ontime8	64650.872077629
ontime9	64653.413067773
l1events	2635431

### 2.1.4 Events

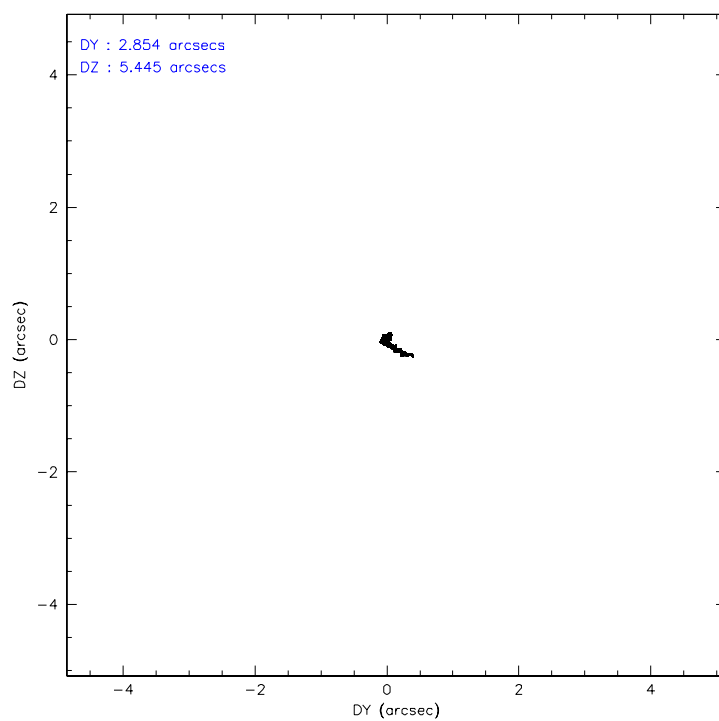
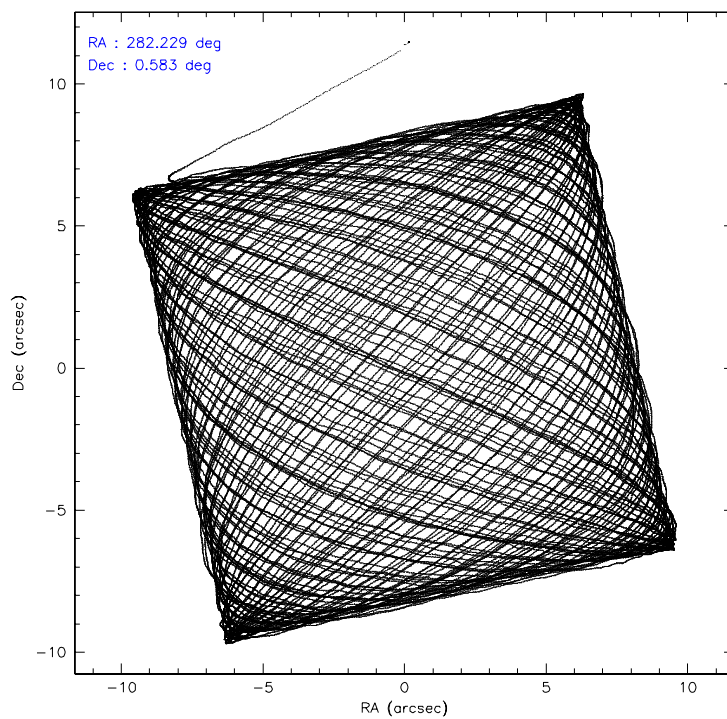
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	424712	482870	387102	428421	521565	390761
rejected events	375030	242791	332761	238059	369504	328705
rejected %	88%	50%	85%	55%	70%	84%

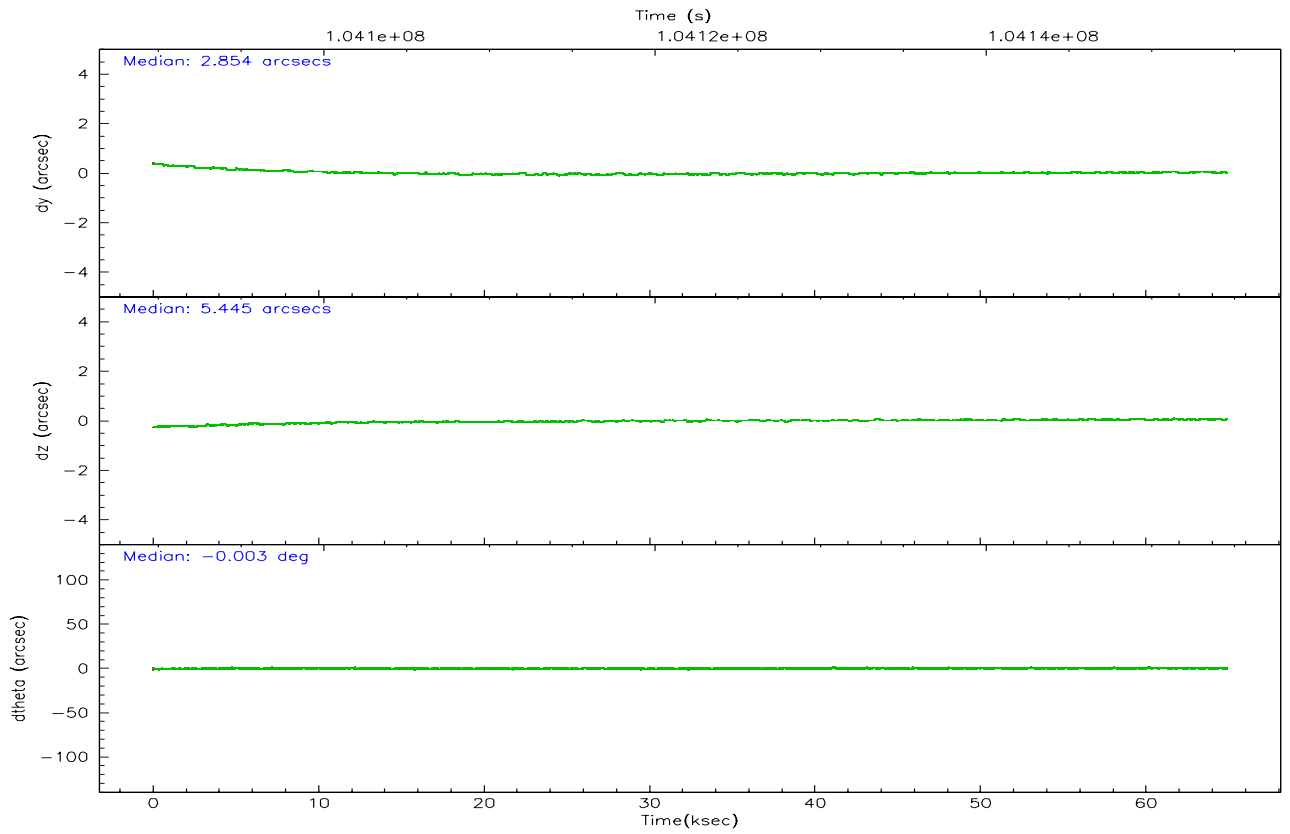
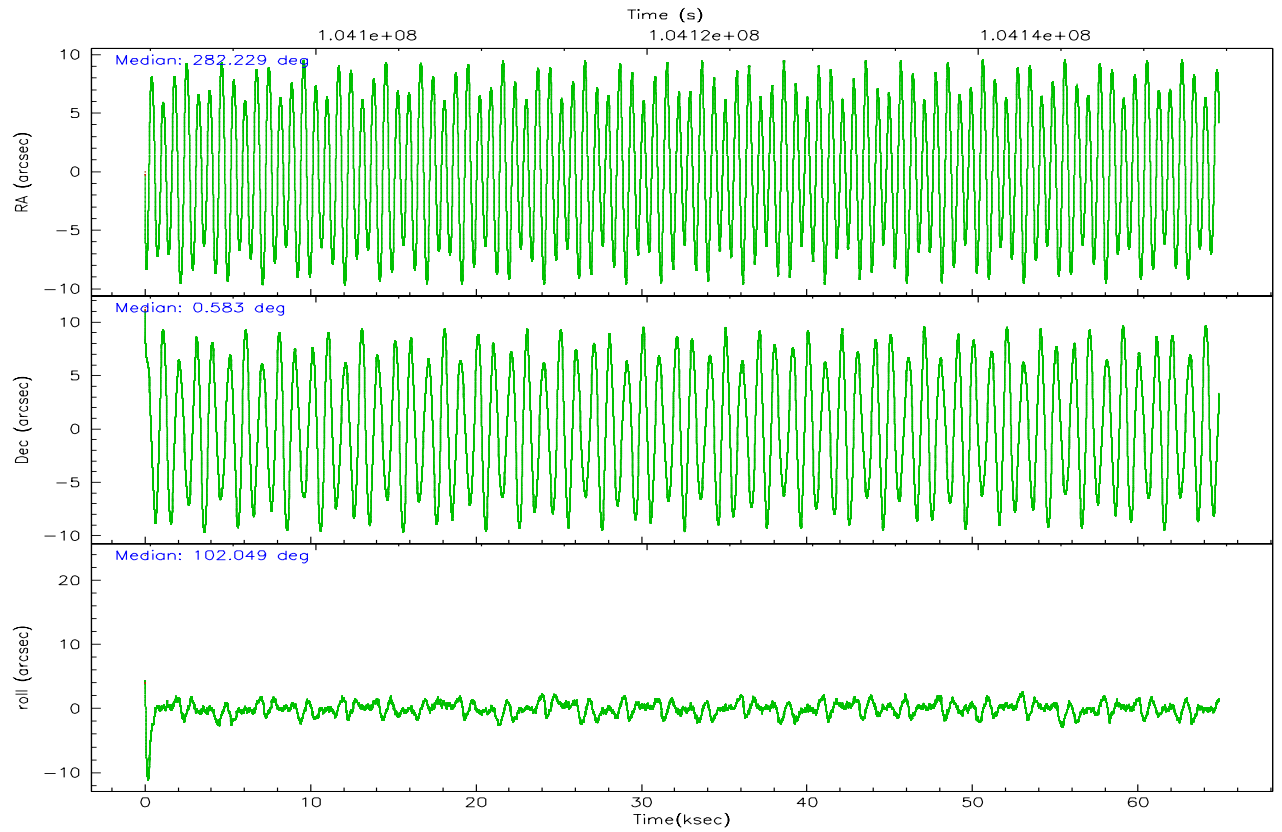
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	22031	45315	26992	14803	50718	20857
	5%	9%	6%	3%	9%	5%
grade 1 events	195	4518	198	442	353	172
	0%	0%	0%	0%	0%	0%
grade 2 events	11711	67910	9990	48006	27889	12245
	2%	14%	2%	11%	5%	3%
grade 3 events	4438	6842	4766	12620	19546	4608
	1%	1%	1%	2%	3%	1%
grade 4 events	4219	6590	4653	12341	17947	4432
	0%	1%	1%	2%	3%	1%
grade 5 events	10614	22419	12302	29270	16826	24389
	2%	4%	3%	6%	3%	6%
grade 6 events	7284	113436	7942	102600	35963	19915
	1%	23%	2%	23%	6%	5%
grade 7 events	364220	215840	320259	208339	352323	304143
	85%	44%	82%	48%	67%	77%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	282.247536	282.2290548049714	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	0.563095	0.5831885619877563	Subarray start row	1	1
Pointing Roll	101.898857	102.0556744127473	Subarray row count	774	774
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	2.5
SIM translation stage pos (mm)	-187.132523	-187.127916318603			
SIM translation stage offset (mm)	-3	-3.004606264404799			
Observation start time	104090055.184000	104088991.95121			
Observation start date	2001-04-19T17:53:11	2001-04-19T17:36:31			
Observation end time	104154555.184000	104154812.32876			
Observation end date	2001-04-20T11:48:11	2001-04-20T11:53:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect



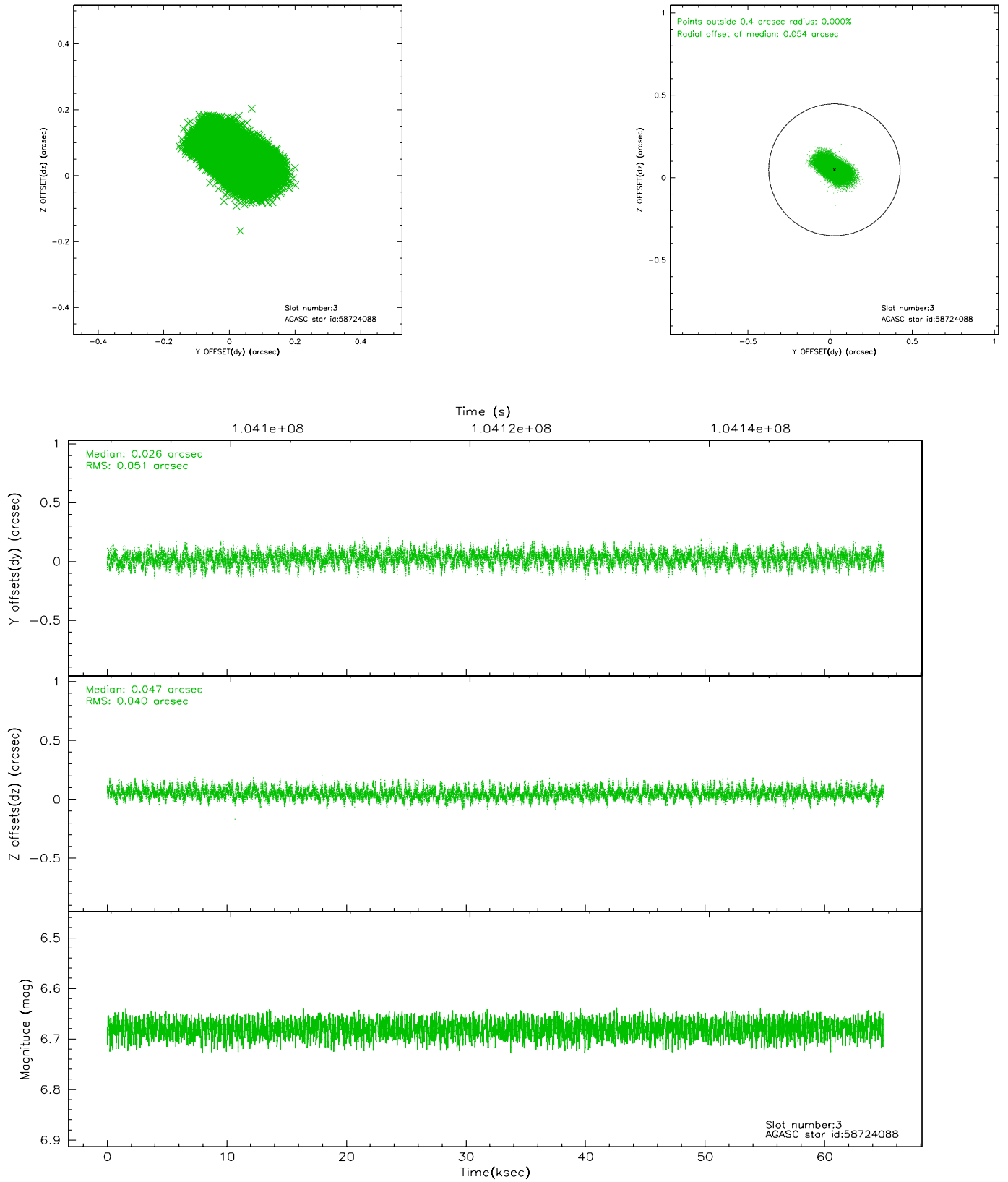


### Slot Statistics

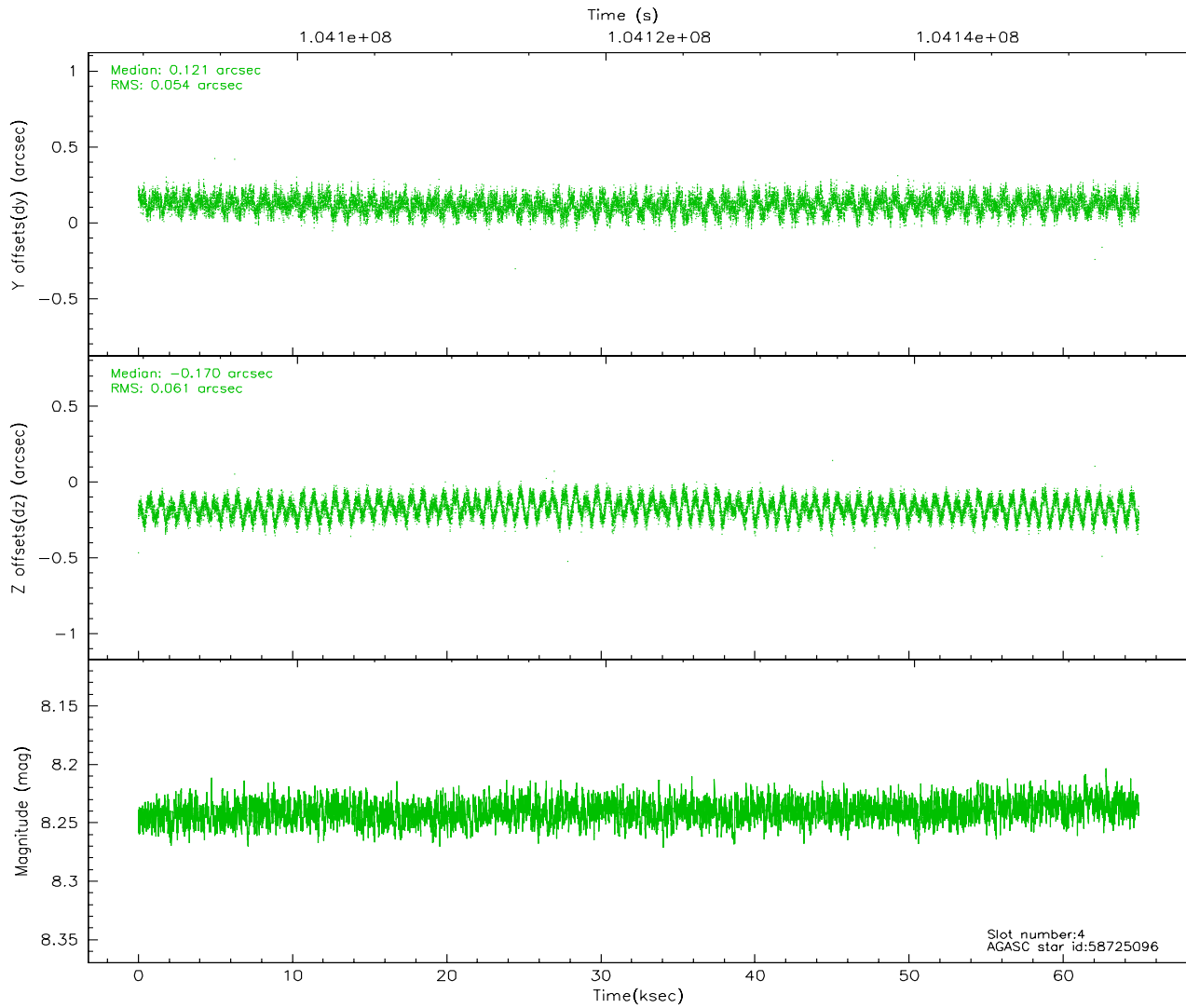
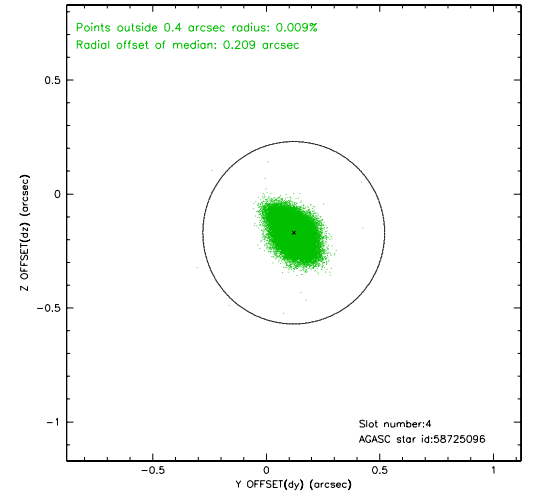
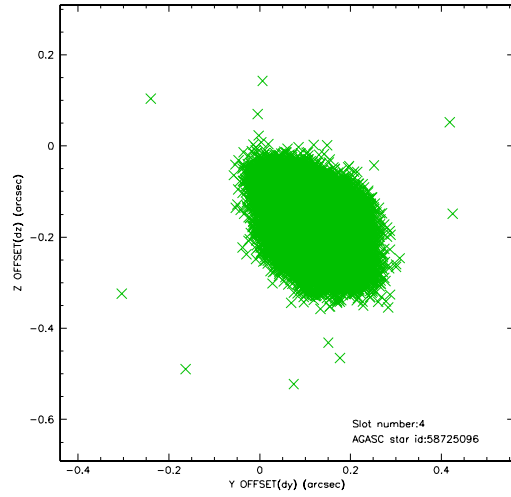
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	15830	-0.006	-0.020	0.013	0.021	0.000000	0.000000	-755.33	-1788.59
1	FID	ACIS-S-4	7.19	15826	-0.070	0.008	0.016	0.027	0.000000	0.000000	2157.93	119.93
2	FID	ACIS-S-5	7.23	15827	0.043	0.021	0.010	0.017	0.000000	0.000000	-1808.17	113.60
3	GUIDE	58724088	6.68	31653	0.026	0.047	0.068	0.117	282.404972	0.836197	844.93	-757.27
4	GUIDE	58725096	8.24	31650	0.121	-0.170	0.087	0.137	281.953766	0.061211	-1550.30	1406.88
5	GUIDE	58720672	7.91	31651	0.196	0.136	0.067	0.106	282.585114	0.078732	-1956.92	-829.90
6	GUIDE	58725744	8.20	31648	-0.228	-0.267	0.064	0.101	281.624244	0.869828	1542.39	1967.47
7	GUIDE	58721400	8.29	31651	-0.113	0.263	0.071	0.116	282.817104	0.833240	528.84	-2206.53

## 2.4 Star Slots

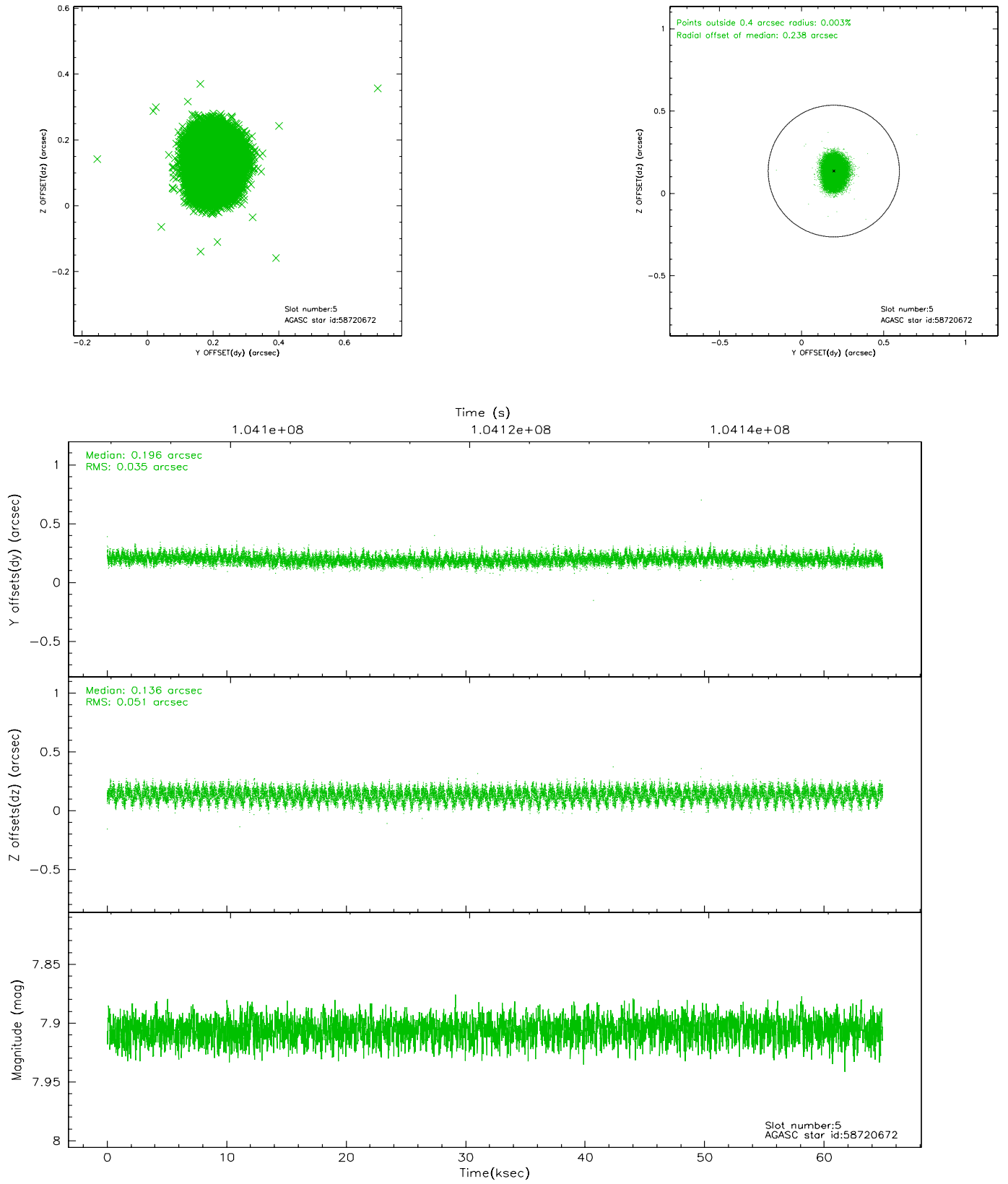
### 2.4.1 Slot 3



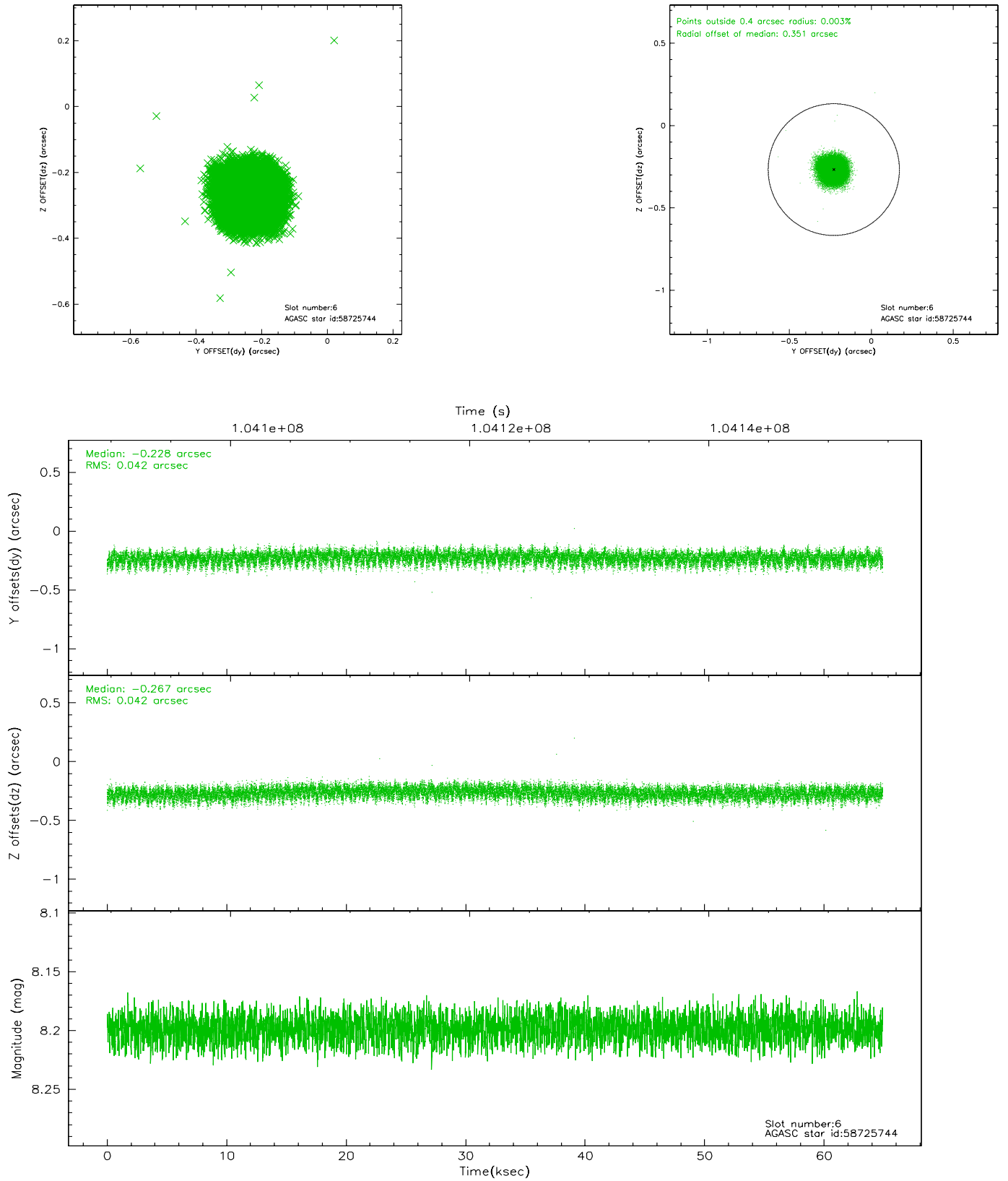
## 2.4.2 Slot 4



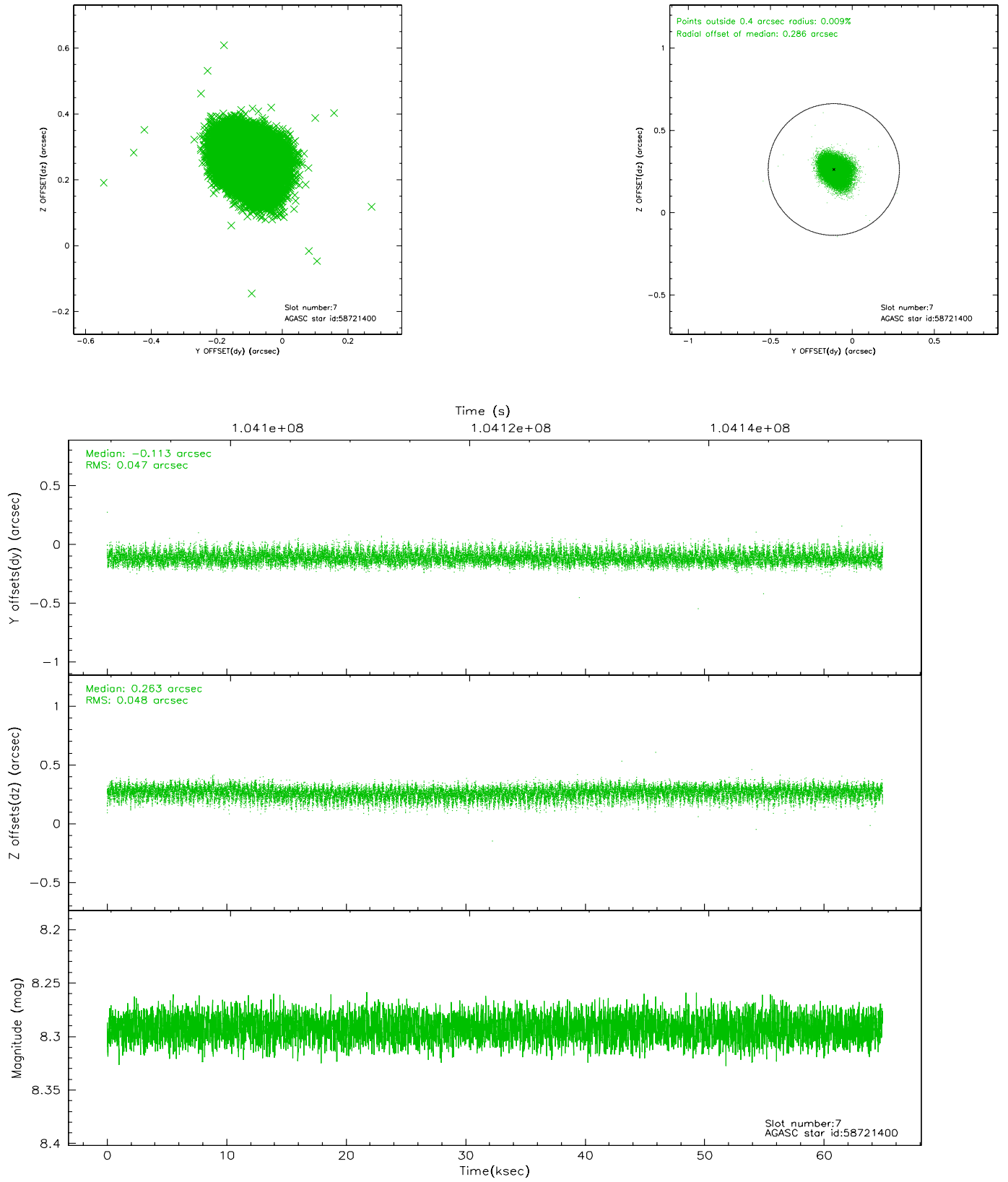
### 2.4.3 Slot 5



## 2.4.4 Slot 6

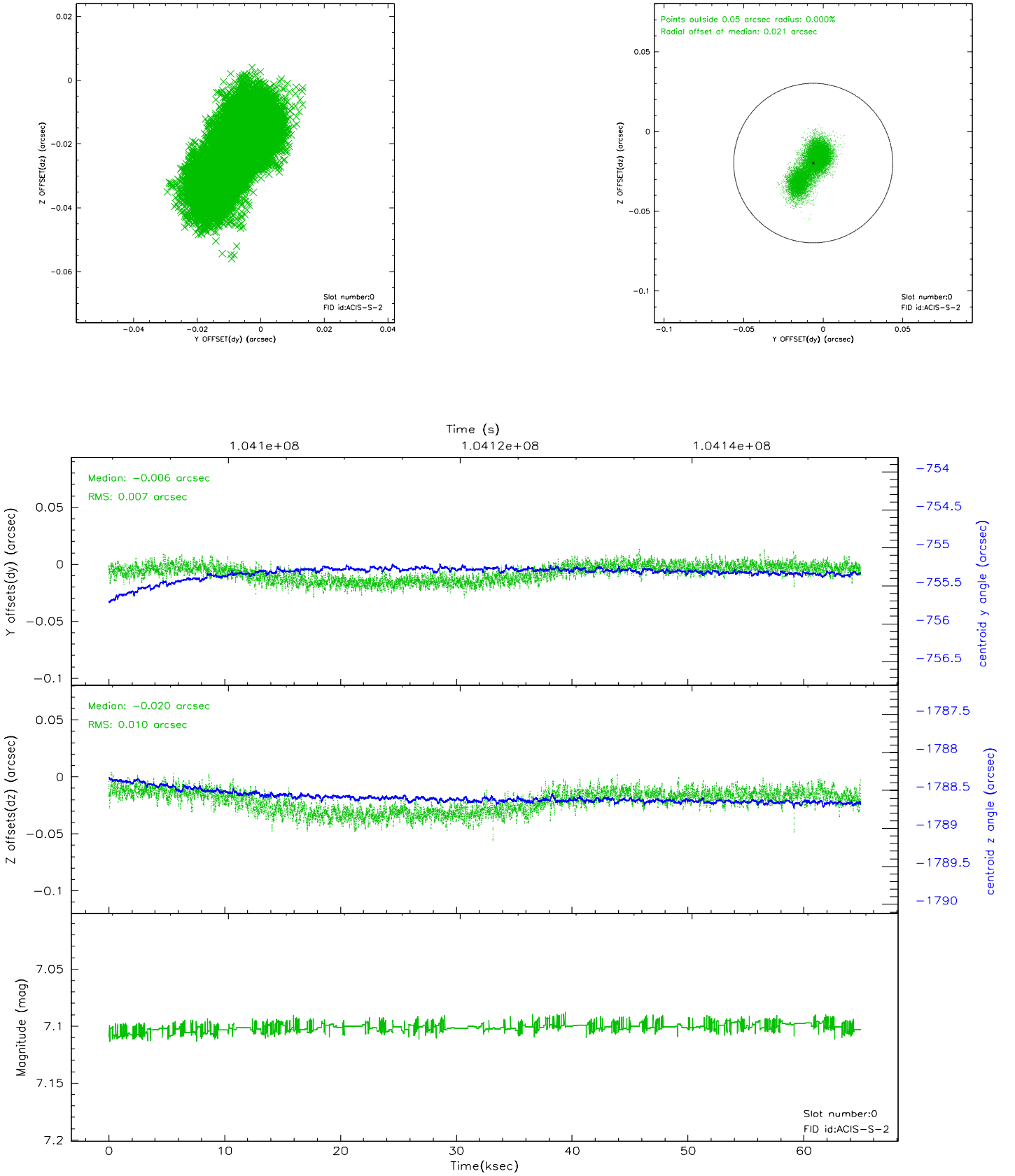


## 2.4.5 Slot 7

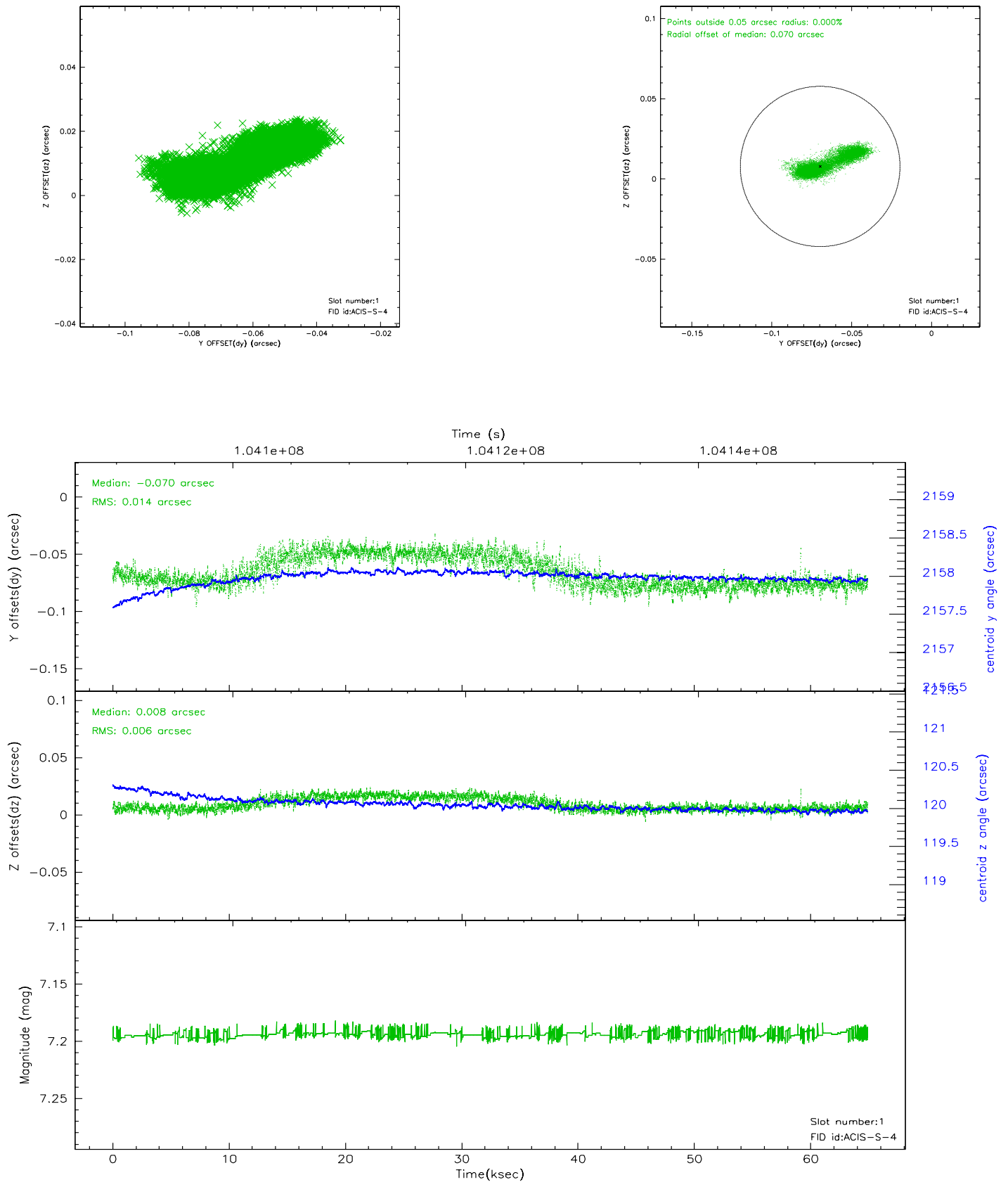


## 2.5 FID Slots

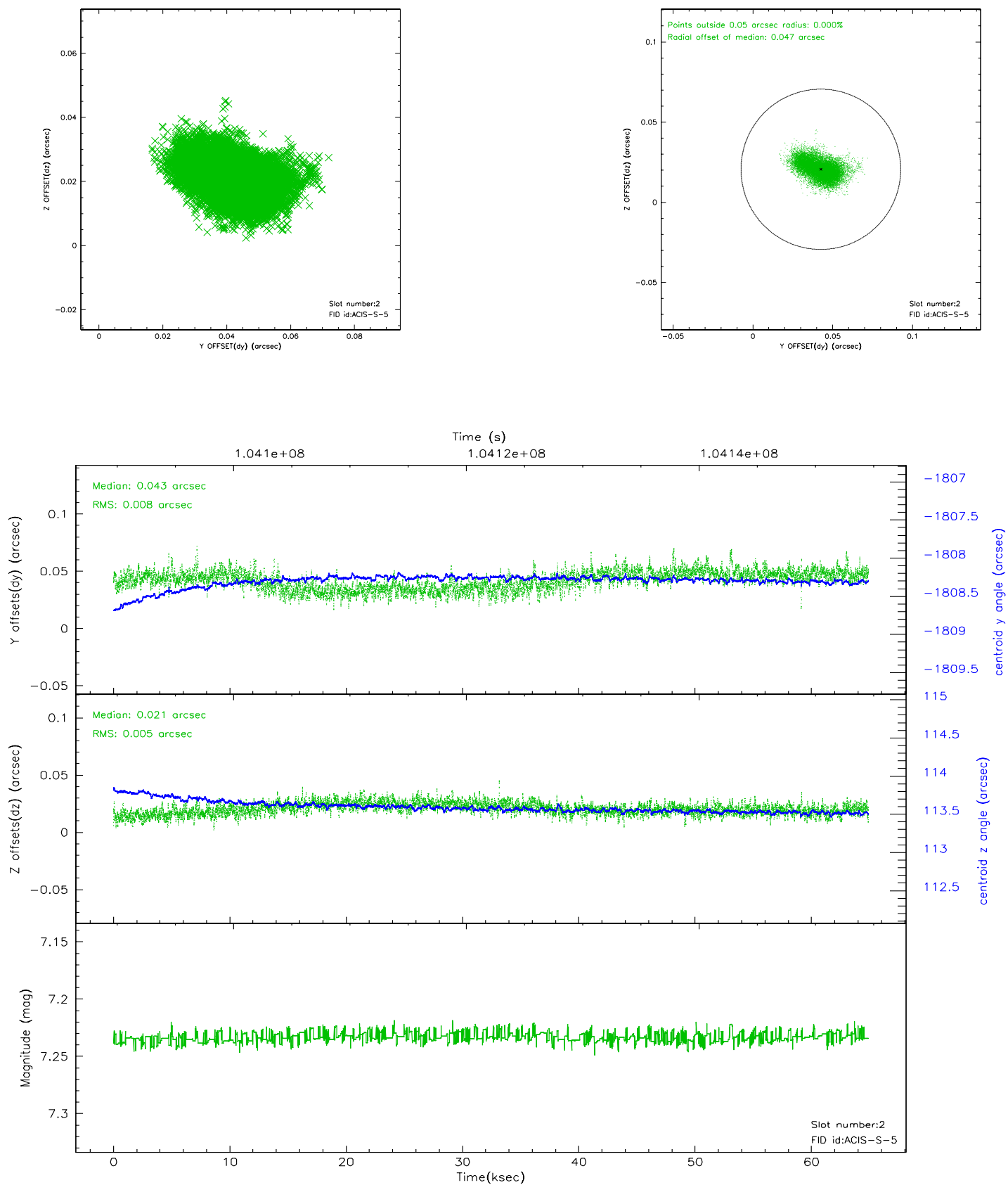
### 2.5.1 Slot 0



## 2.5.2 Slot 1

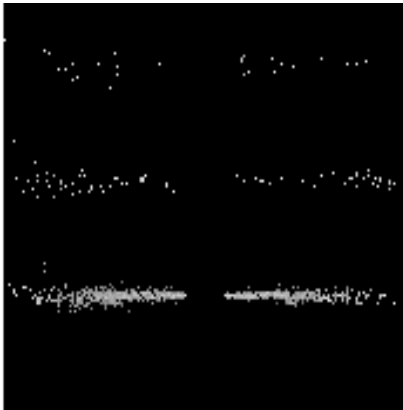


### 2.5.3 Slot 2



# 3 Gratings

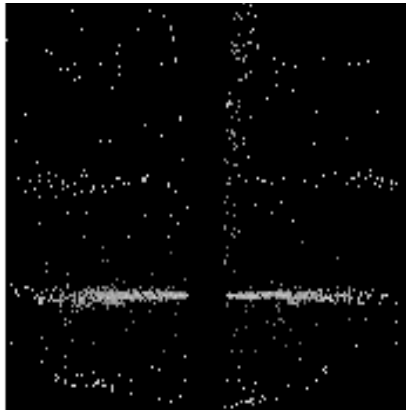
## 3.1 HEG Arm



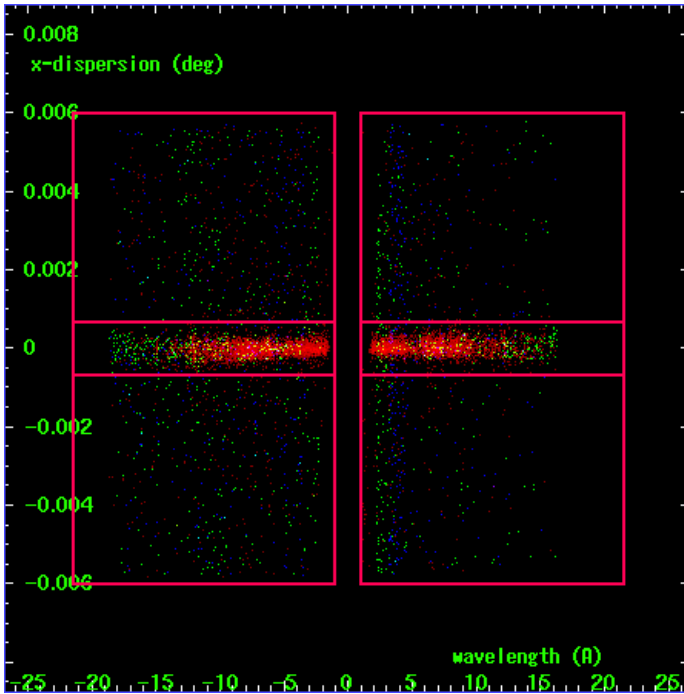
HEG Order Sort 123



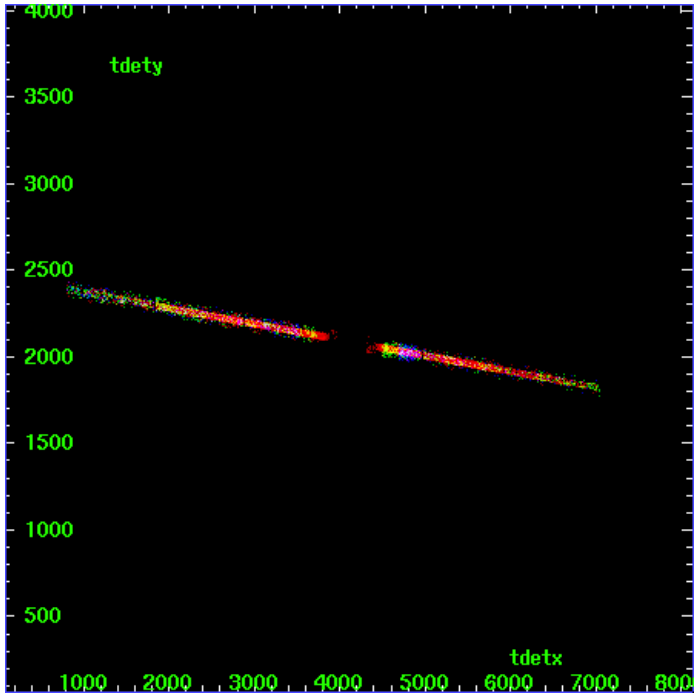
HEG Zero Order



HEG Order Sort ALL

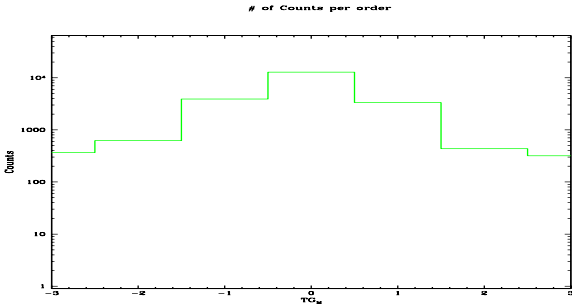


Spot Image HEG

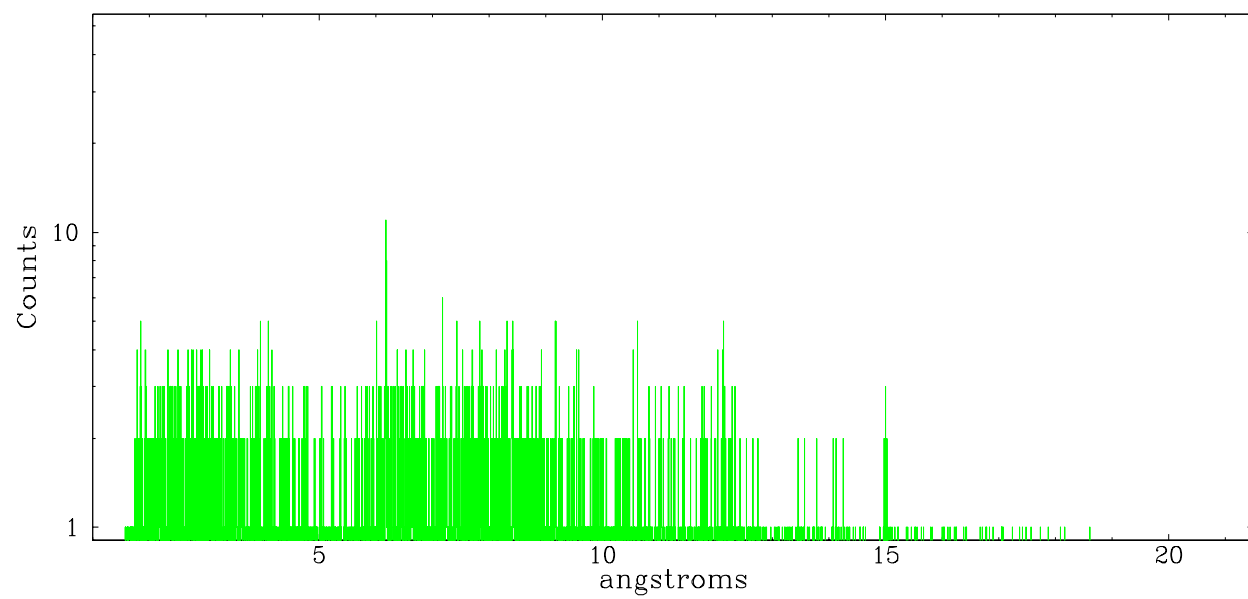


Full Detector HEG

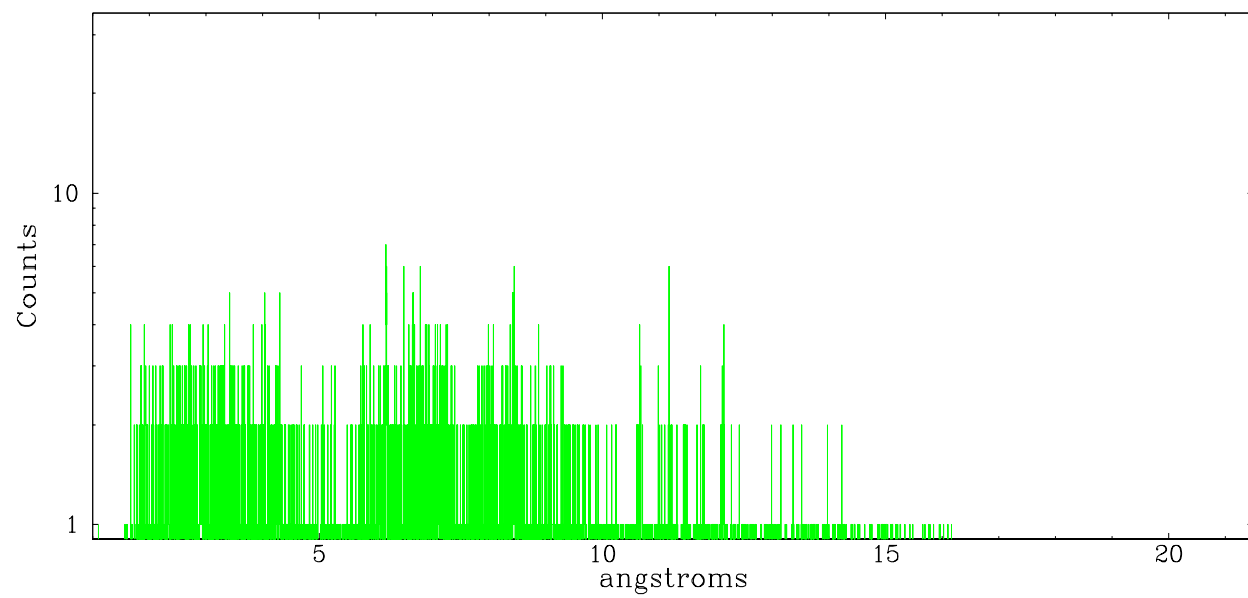
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	367	623	3910	12821	3339	436	318



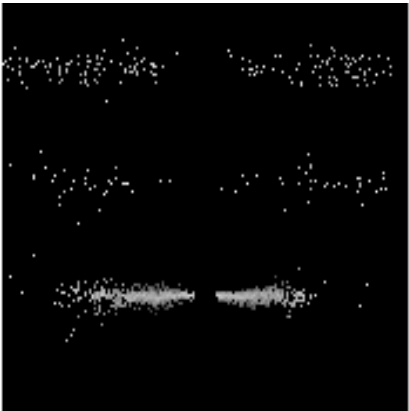
heg order -1



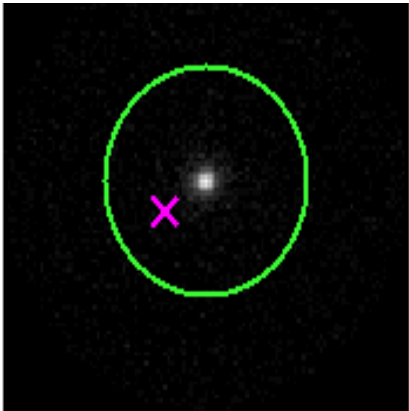
heg order +1



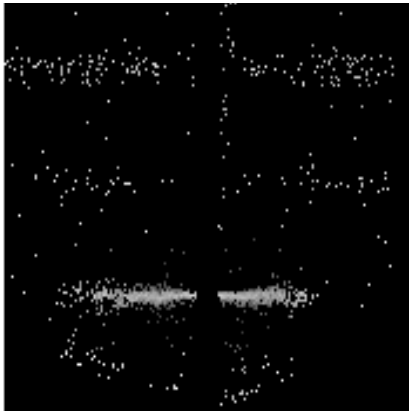
3.2 MEG Arm



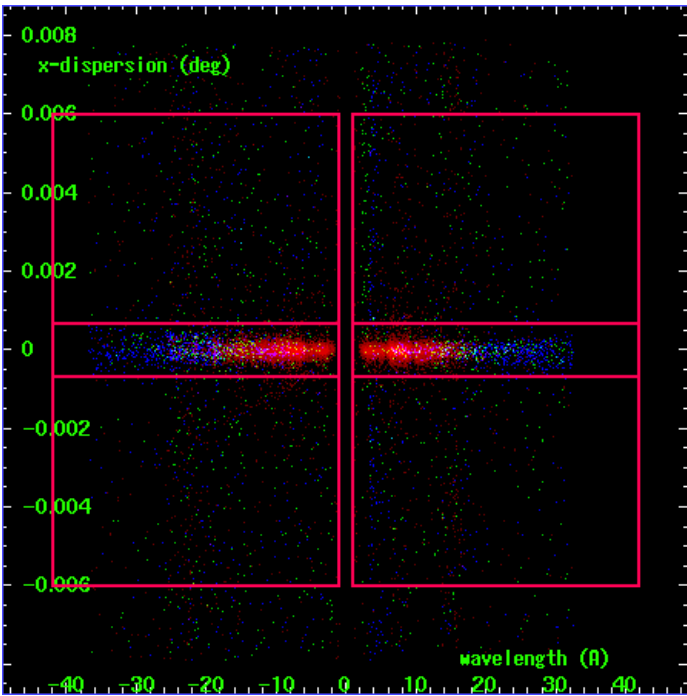
MEG Order Sort 123



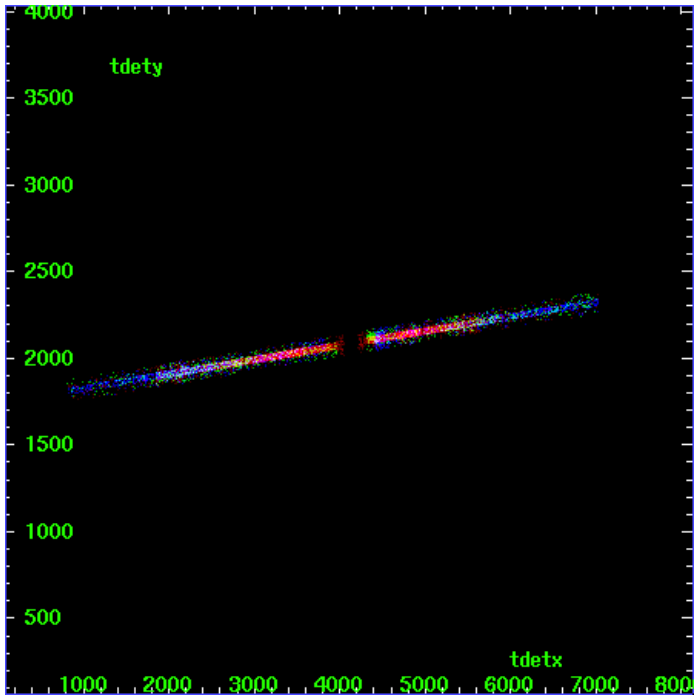
MEG Zero Order



MEG Order Sort ALL

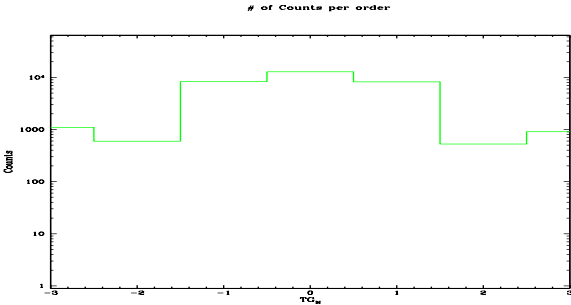


Spot Image MEG

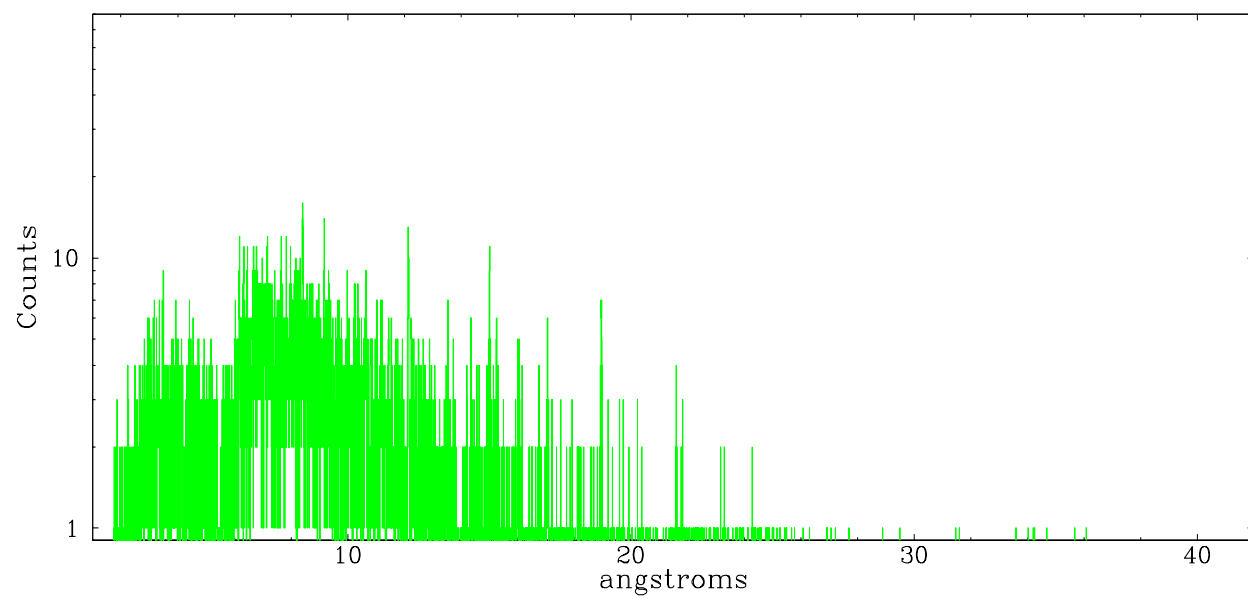


Full Detector MEG

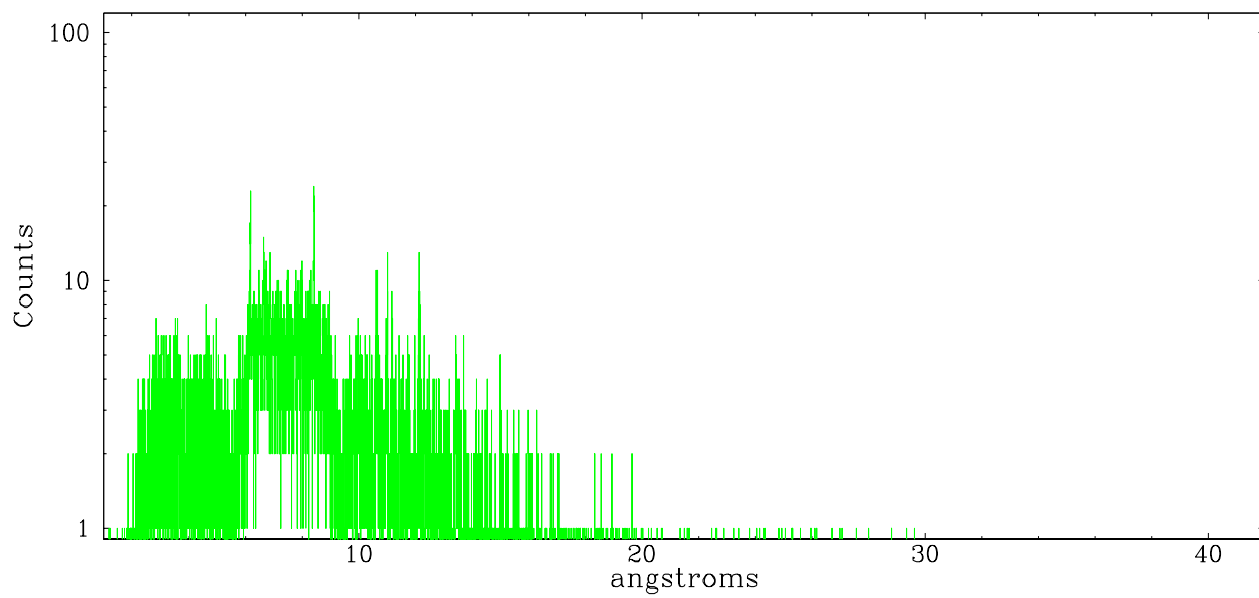
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1095	596	8257	12821	8188	528	903



meg order -1



meg order +1



## A Summary

### A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	64.545

### A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 64.545 ks.