

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3670 - L2 Version 001
Chandra X-Ray Center

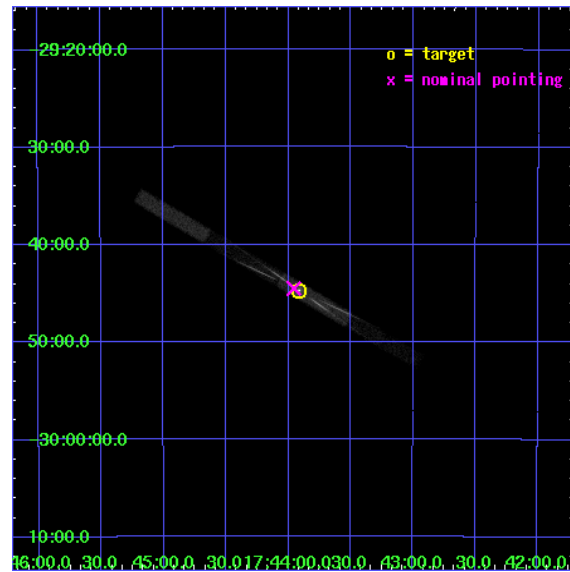
L2 Processing Date : Sep 19 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	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

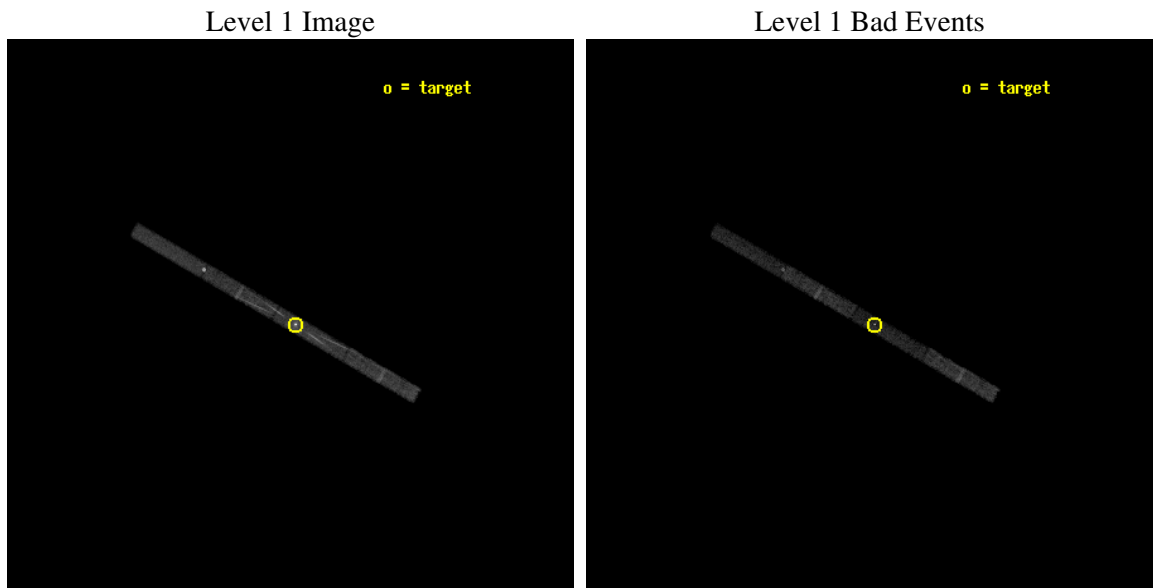
seq_num	400266
obs_id	3670
title	THE LOW/SOFT STATE IN THE MICROQUASAR 1E1740.7-2942
observer	Dr. William Heindl
object	1E 1740.7-2942
dtcycle	0
cycle	P
ra_targ	265.978333
dec_targ	-29.745222
ra_nom	265.98882084142
dec_nom	-29.741945809361
roll_nom	30.138128249455
revision	2
ontime	10140.199827313
livetime	9578.619074705
ontime5	10140.199827313
ontime6	10139.4588072
ontime7	10140.199827313
ontime8	10140.199827313
l2events	35117



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 5

Chip 6

Chip 7



Chip 8



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-19T13:09:29
revision	2

sched_exp_time	10000.000000
ontime	10933.18646726
ontime5	10933.18646726
ontime6	10932.445447147
ontime7	10933.18646726
ontime8	10933.18646726
l1events	100081

2.1.4 Events

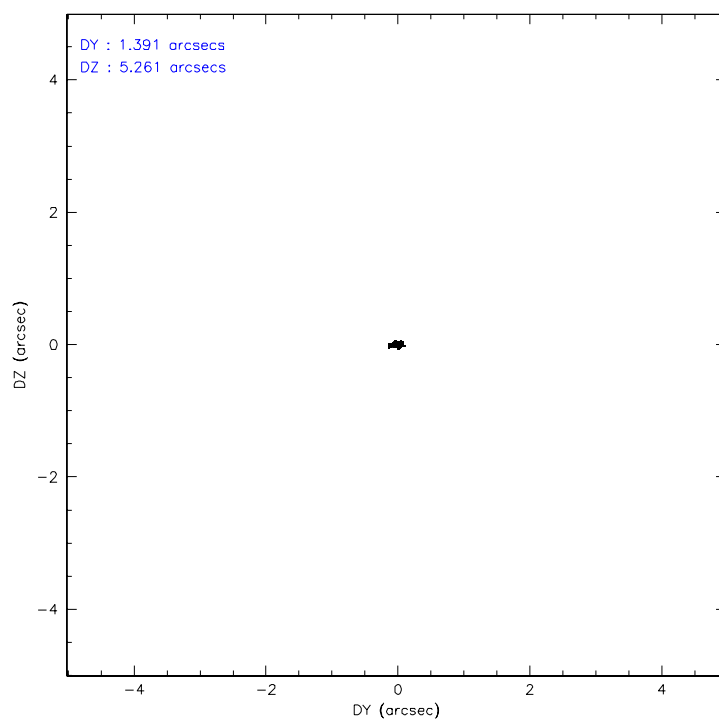
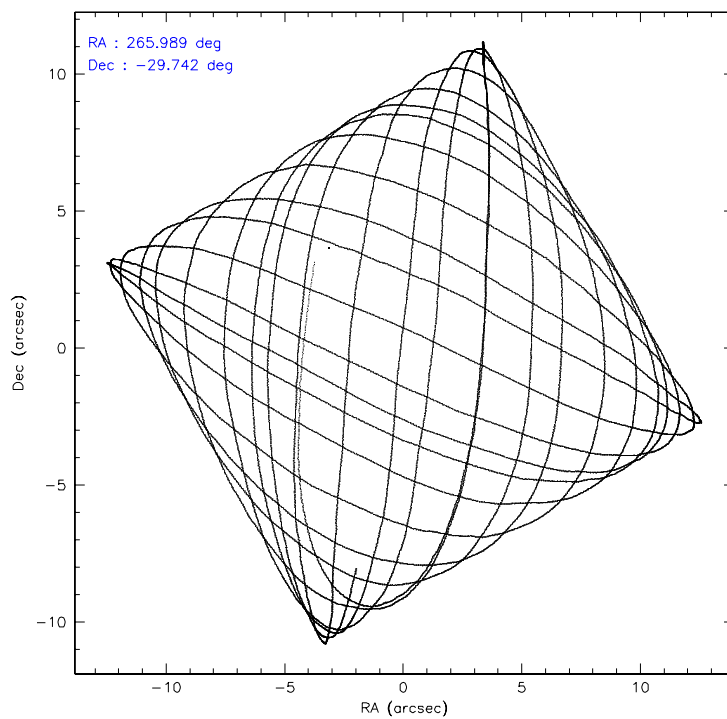
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22451	20862	32849	23919
rejected events	12044	15686	11716	19715
rejected %	53%	75%	35%	82%

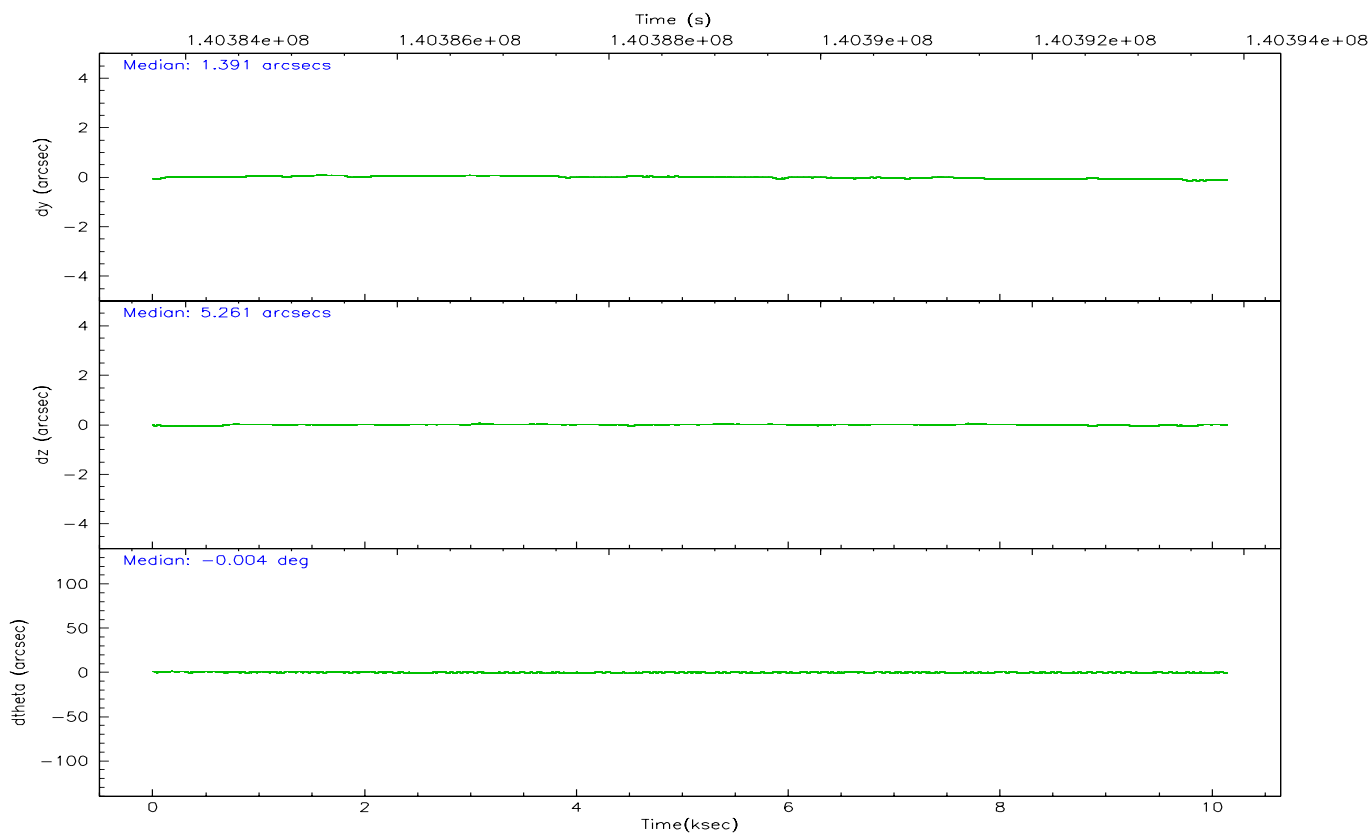
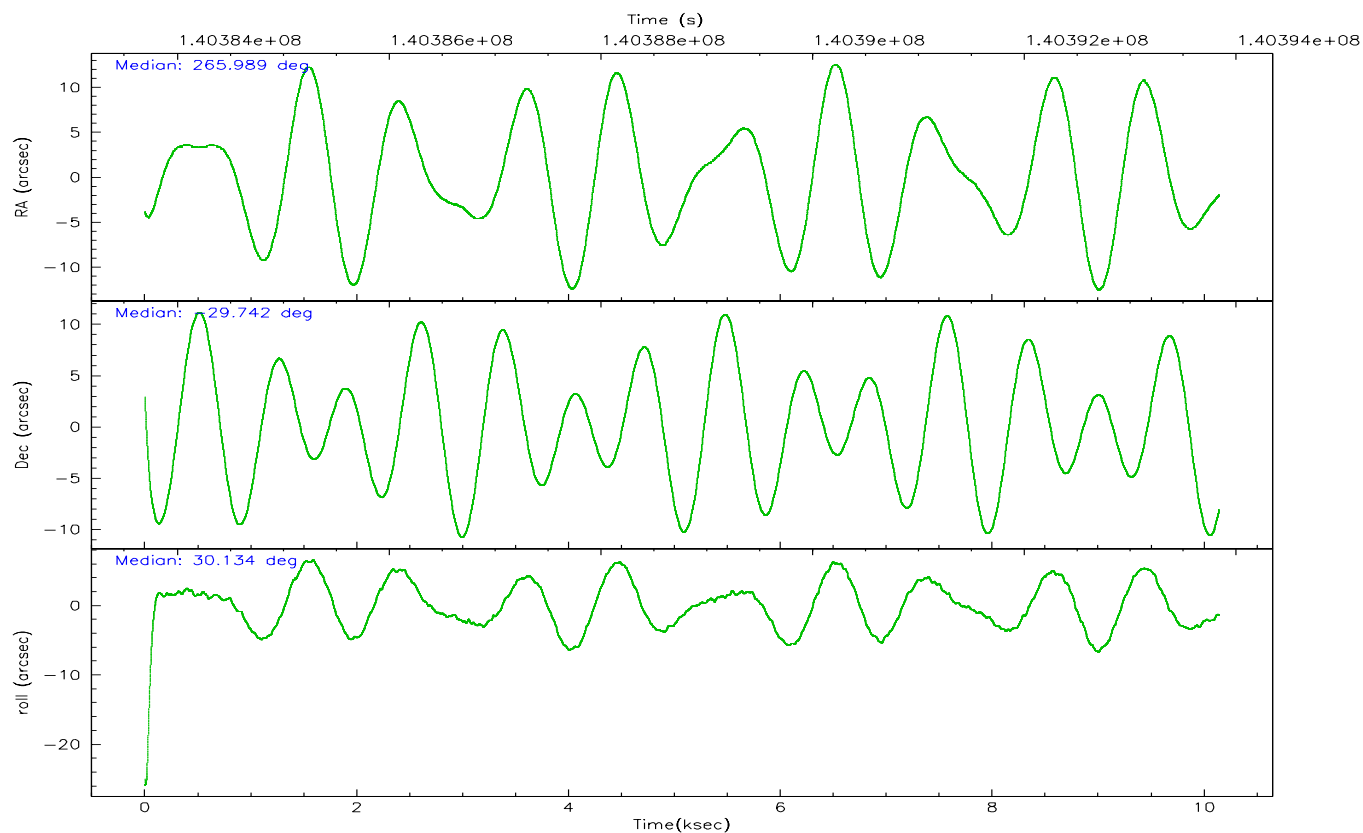
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2538	3113	2860	1432
	11%	14%	8%	5%
grade 1 events	385	12	61	11
	1%	0%	0%	0%
grade 2 events	2656	811	5133	809
	11%	3%	15%	3%
grade 3 events	901	470	2249	610
	4%	2%	6%	2%
grade 4 events	829	461	2113	565
	3%	2%	6%	2%
grade 5 events	1274	555	1694	655
	5%	2%	5%	2%
grade 6 events	4717	513	9683	1247
	21%	2%	29%	5%
grade 7 events	9151	14927	9056	18590
	40%	71%	27%	77%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-5678	ACIS-5678	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	265.973549	265.9888208414199	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	-29.765708	-29.74194580936134	Subarray start row	87	87
Pointing Roll	29.973949	30.13812824945488	Subarray row count	184	184
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.7
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	140383841.184000	140382765.86061			
Observation start date	2002-06-13T19:29:37	2002-06-13T19:12:45			
Observation end time	140393841.184000	140394970.02361			
Observation end date	2002-06-13T22:16:17	2002-06-13T22:36:10			
Read mode	TIMED	TIMED			

2.3 Aspect



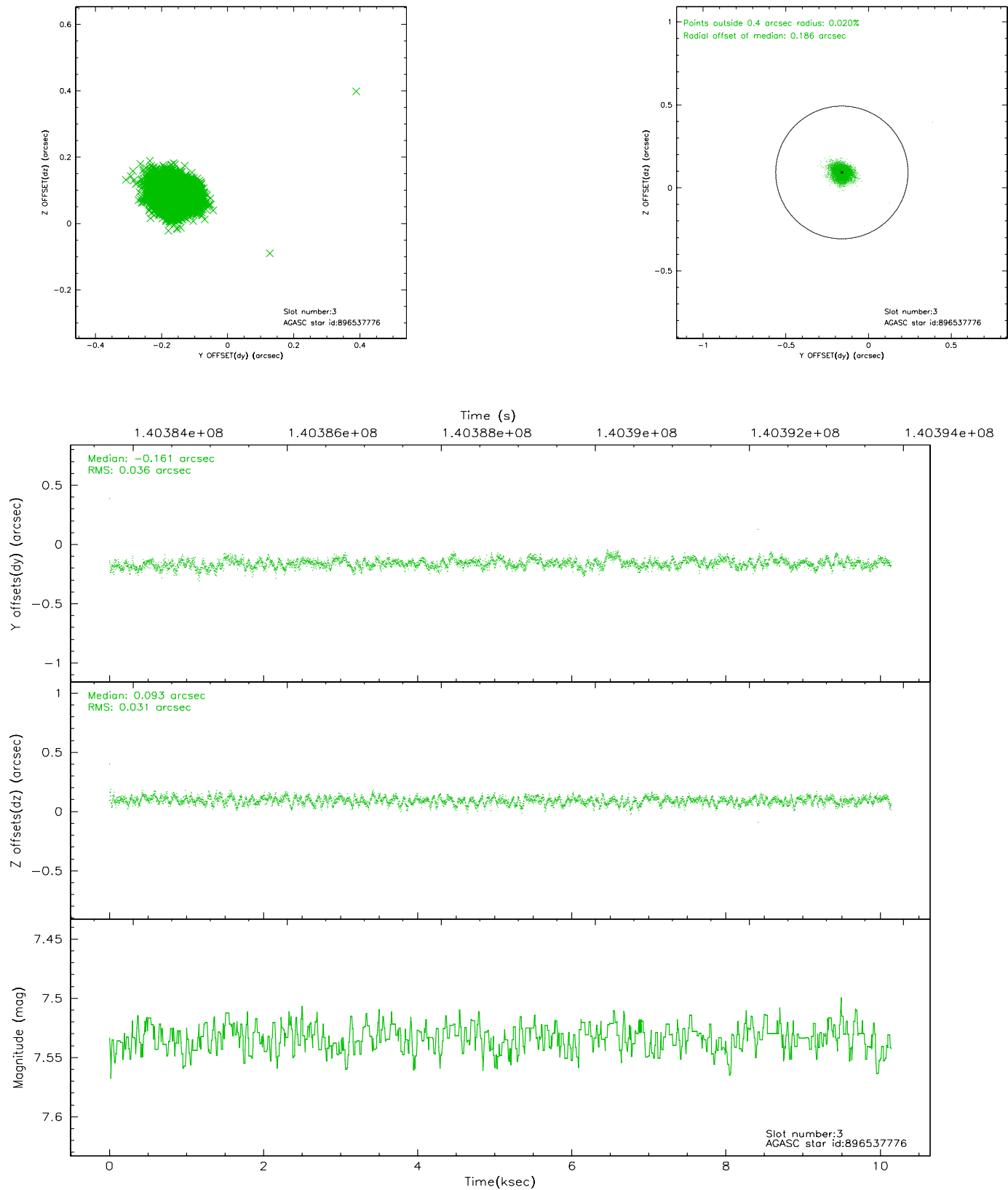


Slot Statistics

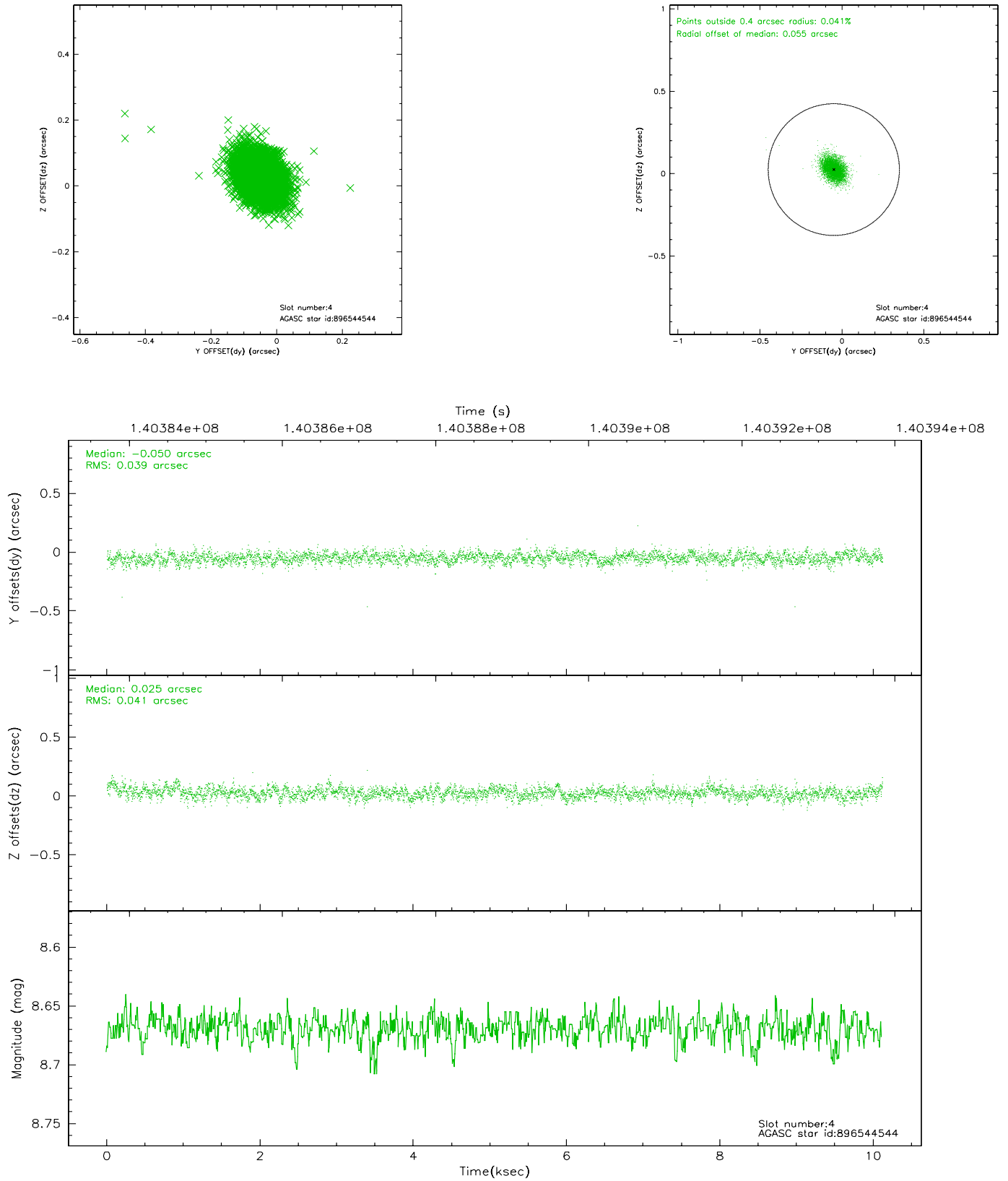
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2474	-0.072	-0.060	0.009	0.020	0.000000	0.000000	-753.48	-1891.15
1	FID	ACIS-S-4	7.18	2474	0.080	0.051	0.007	0.028	0.000000	0.000000	2159.71	16.82
2	FID	ACIS-S-5	7.23	2474	-0.039	0.017	0.008	0.022	0.000000	0.000000	-1805.61	11.06
3	GUIDE	896537776	7.53	4948	-0.161	0.093	0.049	0.080	266.655684	-29.665673	2025.97	-759.36
4	GUIDE	896544544	8.67	4937	-0.050	0.025	0.059	0.096	266.707391	-29.885740	1766.01	-1525.04
5	GUIDE	896405480	8.24	4947	0.182	-0.011	0.055	0.092	265.220460	-29.599691	-1745.98	1688.39
6	GUIDE	896538920	8.92	4947	-0.112	-0.032	0.060	0.098	266.278728	-29.143592	1949.88	1460.05
7	GUIDE	966787648	8.88	4944	0.141	-0.070	0.058	0.095	265.297931	-30.077843	-2386.28	72.84

2.4 Star Slots

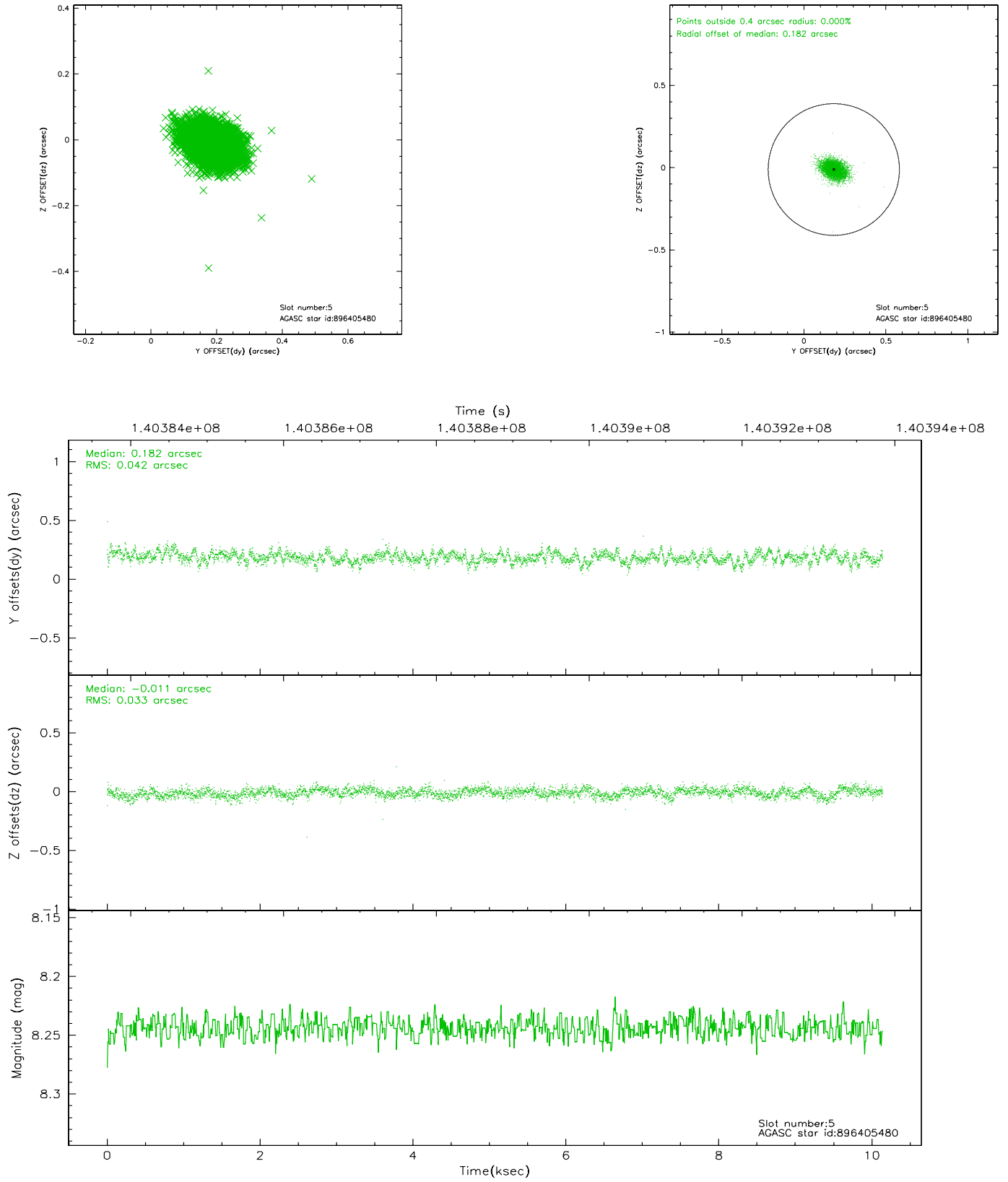
2.4.1 Slot 3



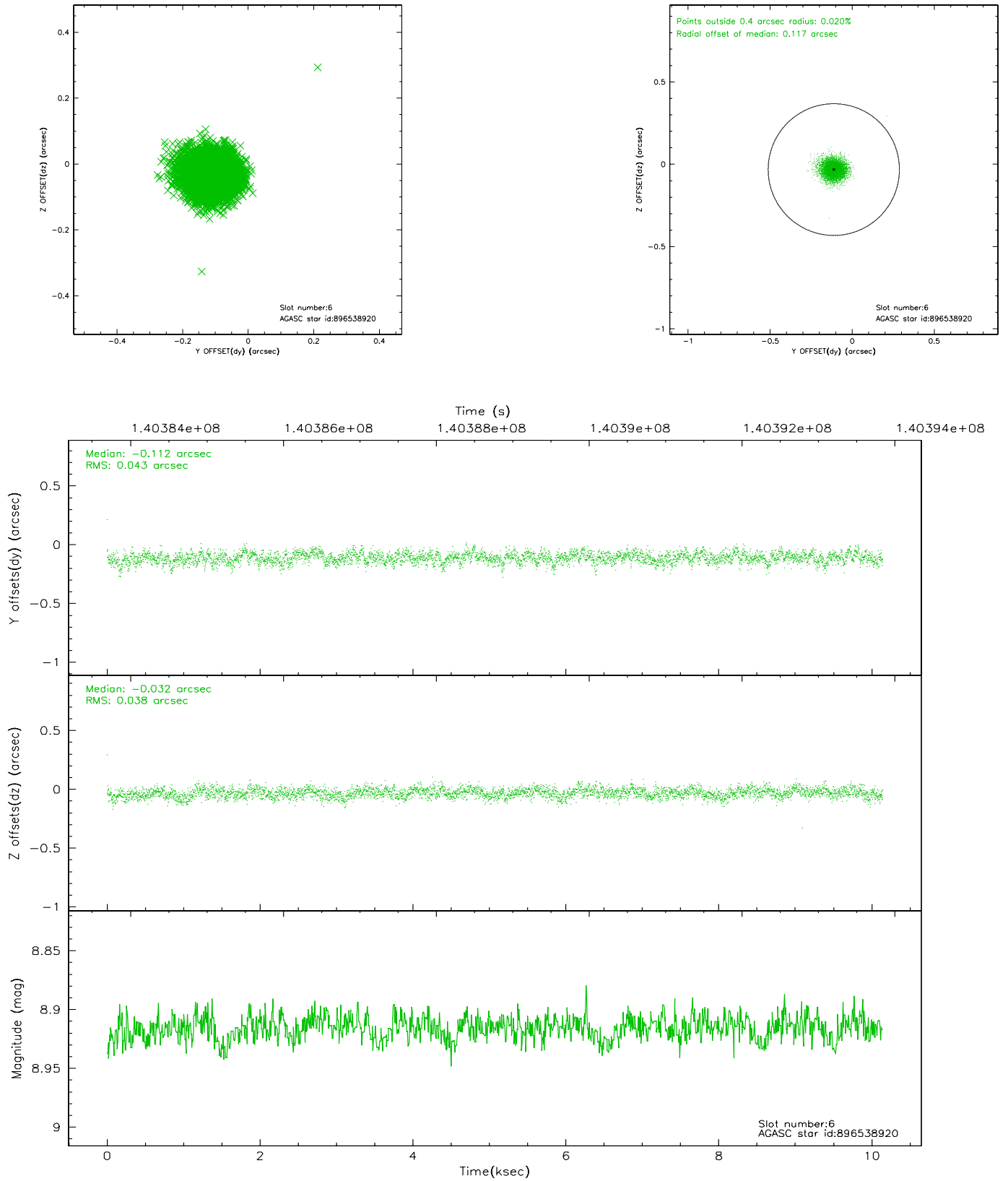
2.4.2 Slot 4



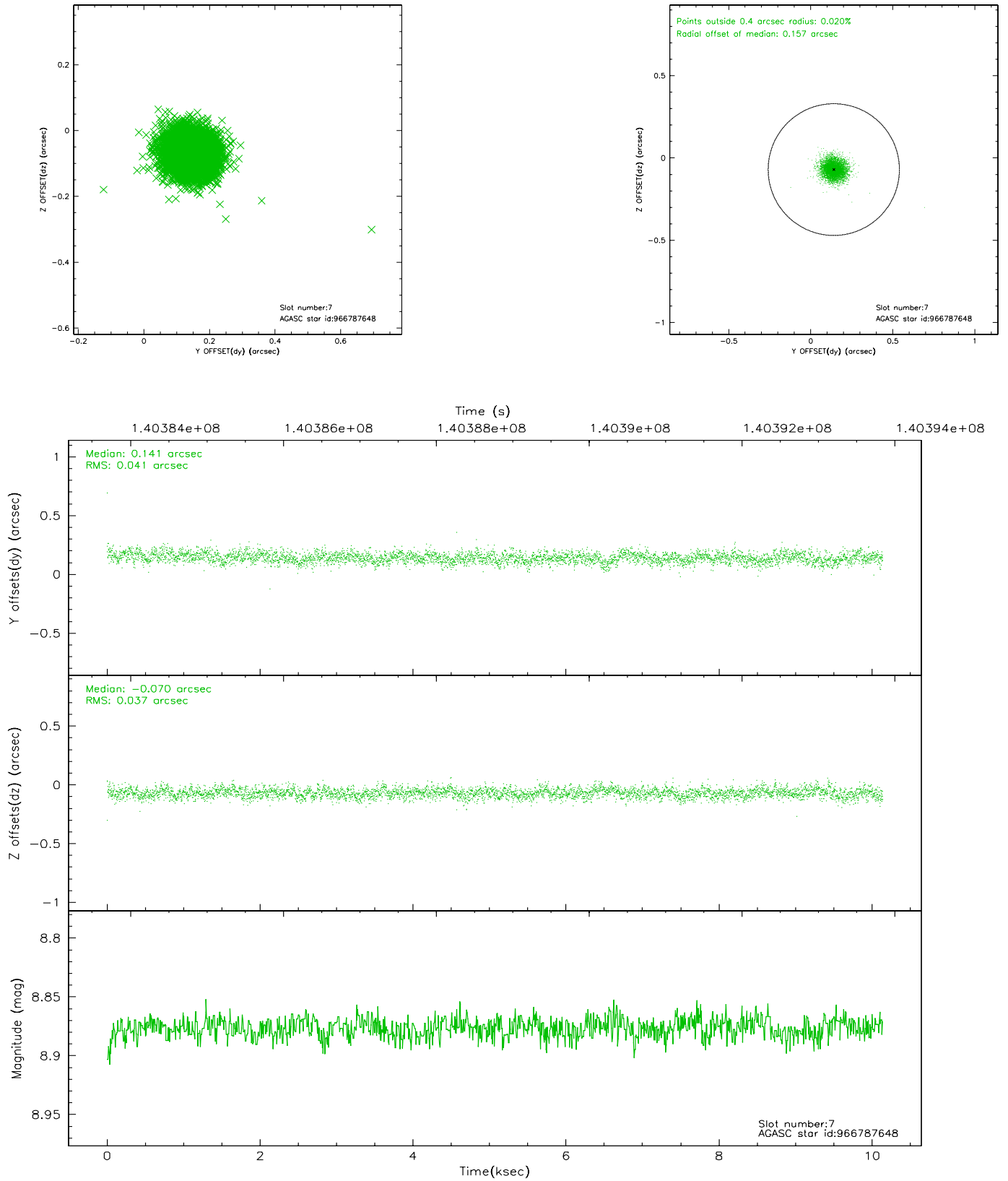
2.4.3 Slot 5



2.4.4 Slot 6

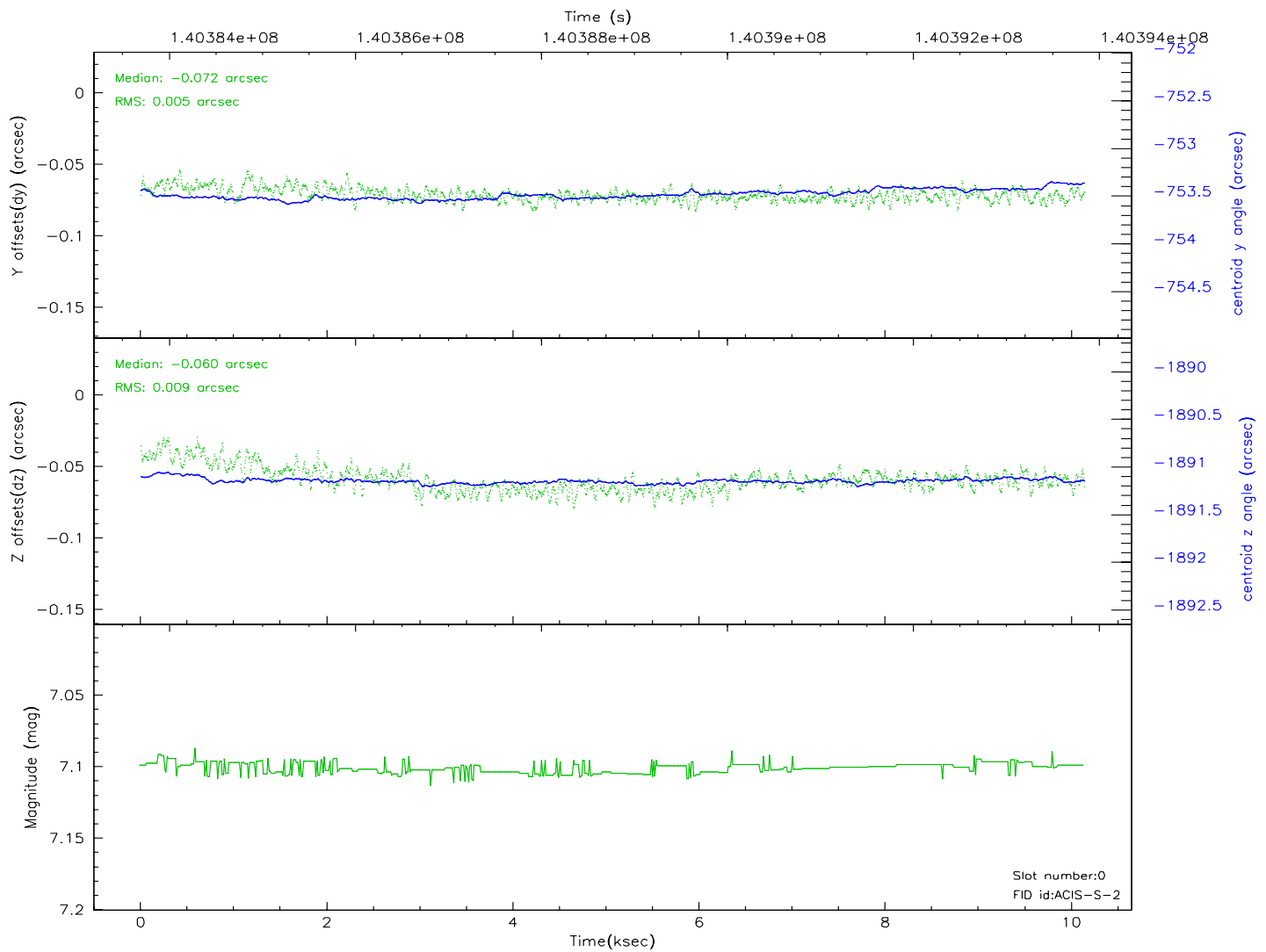
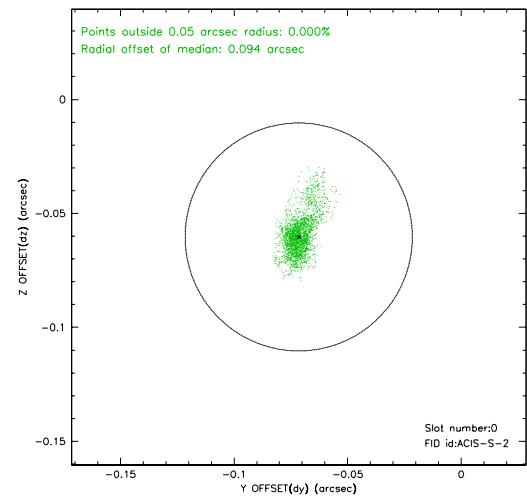
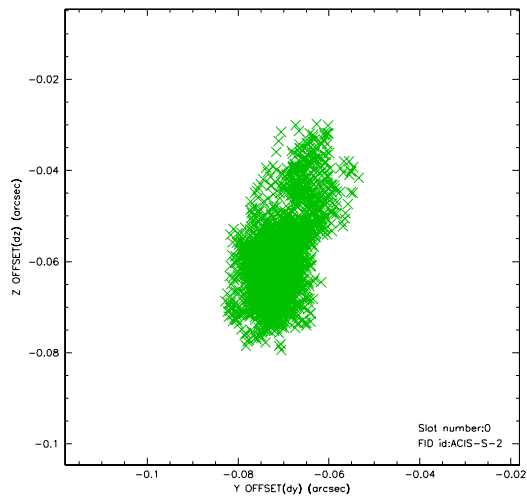


2.4.5 Slot 7

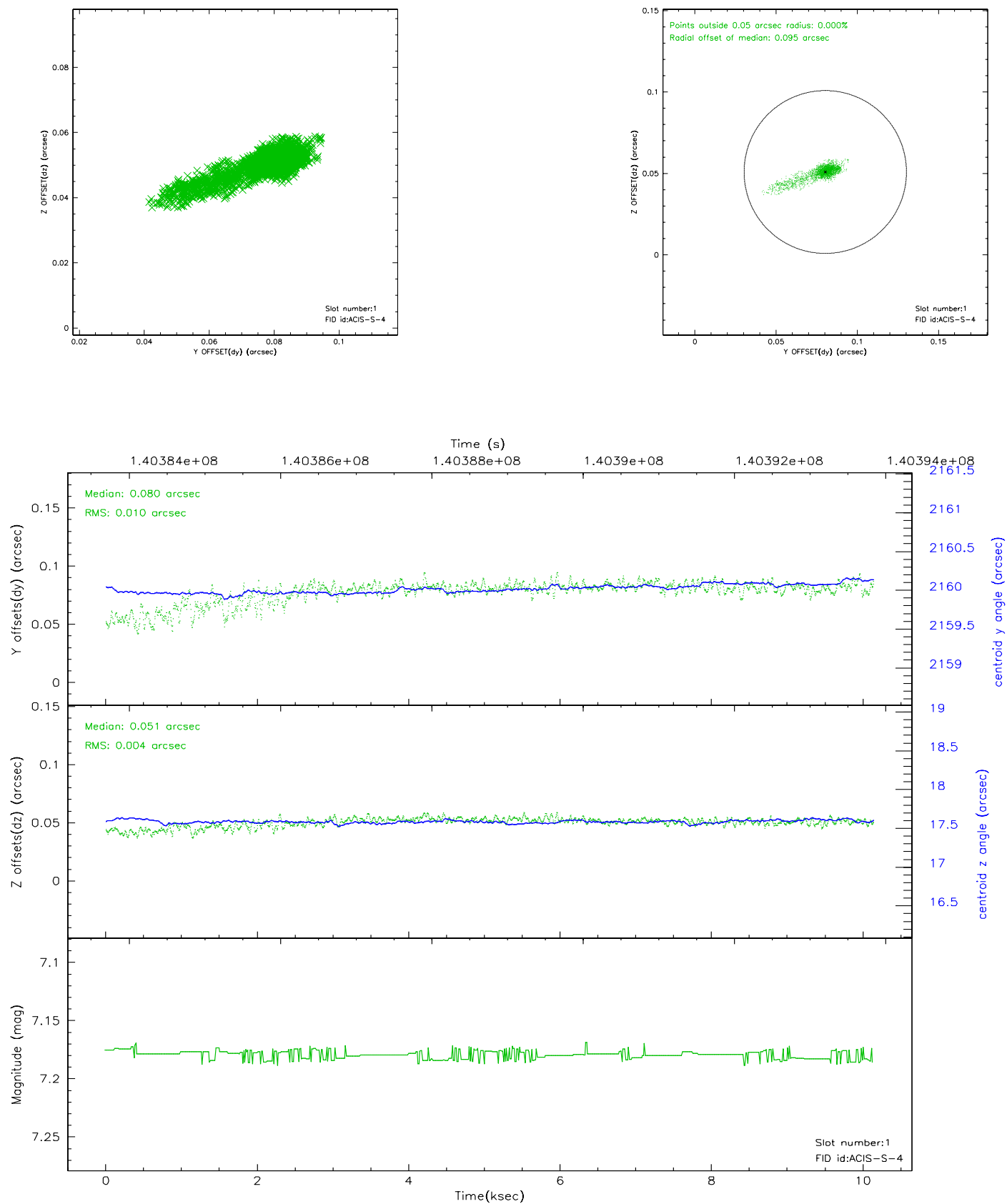


2.5 FID Slots

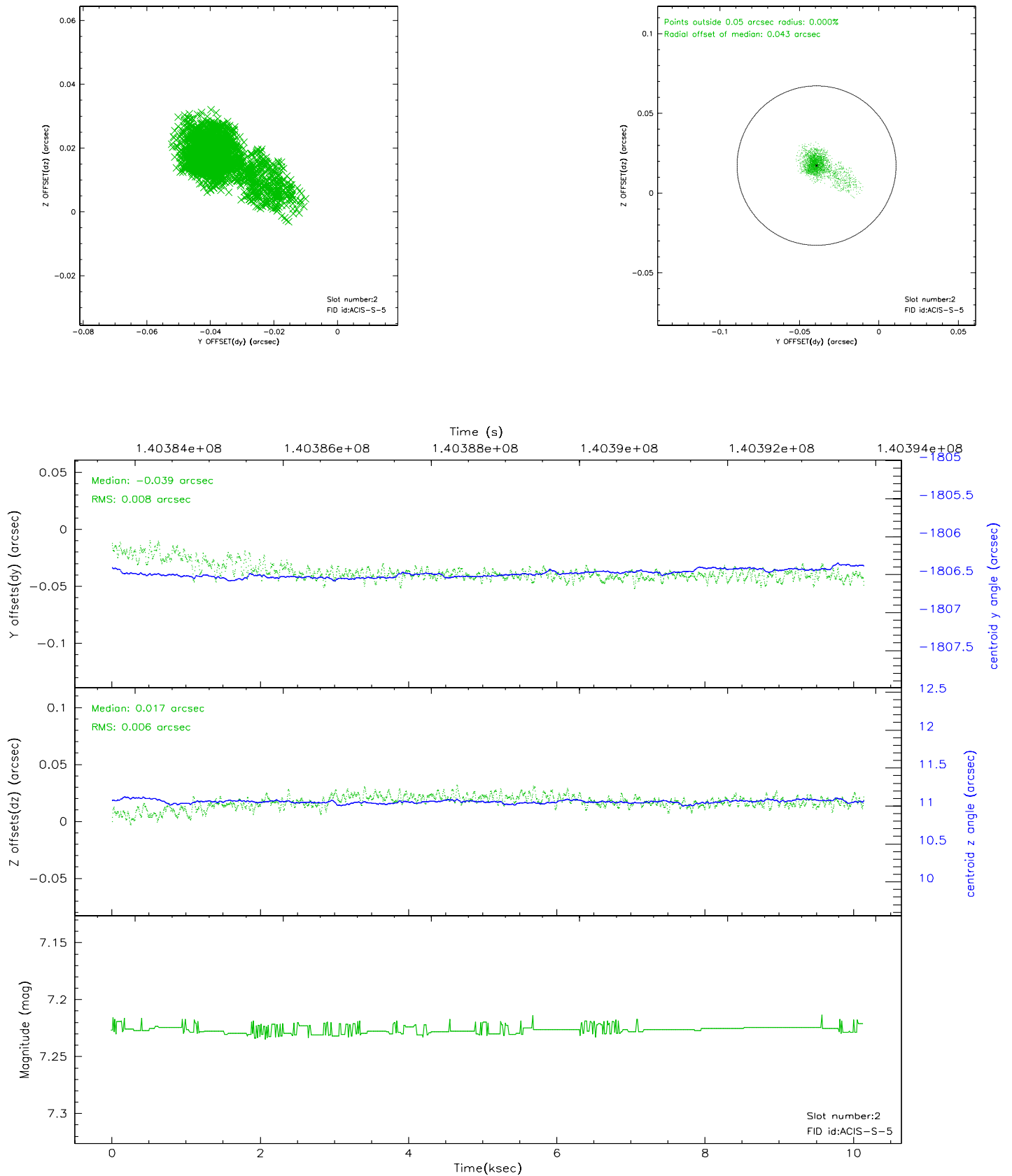
2.5.1 Slot 0



2.5.2 Slot 1

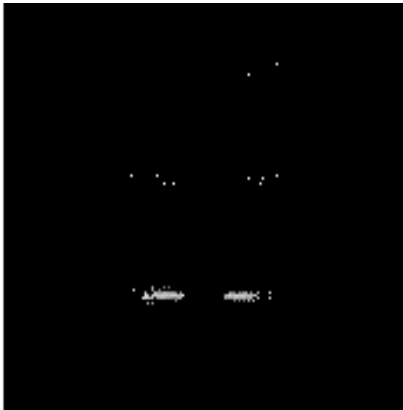


2.5.3 Slot 2

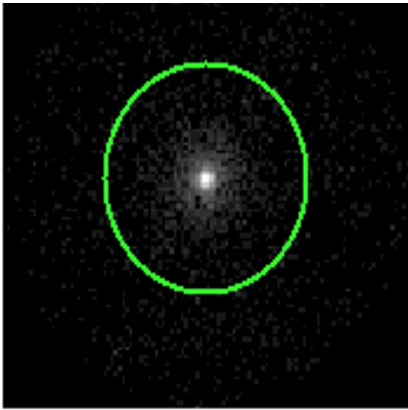


3 Gratings

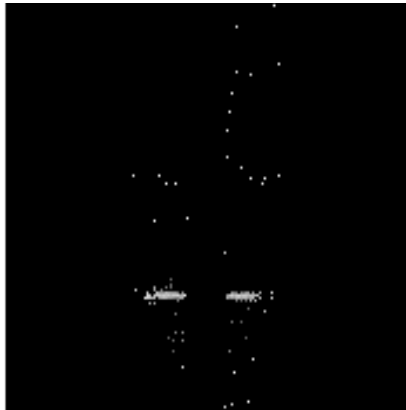
3.1 HEG Arm



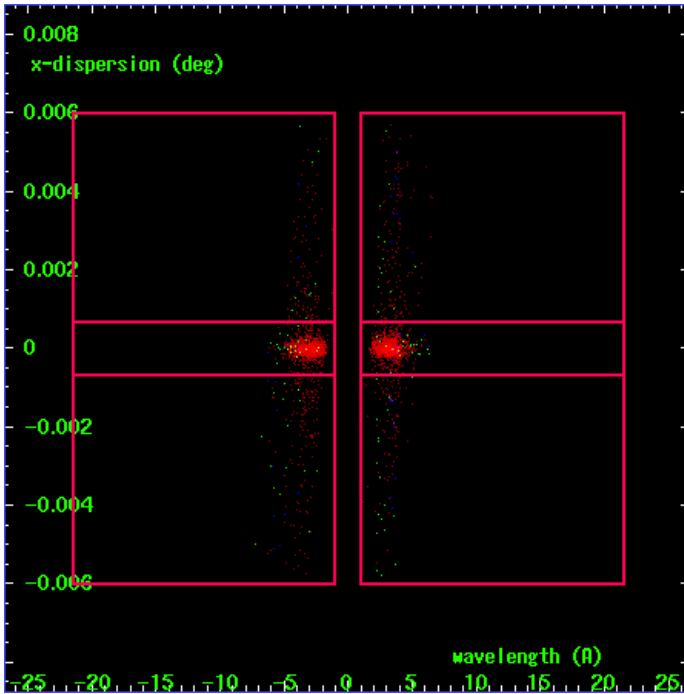
HEG Order Sort 123



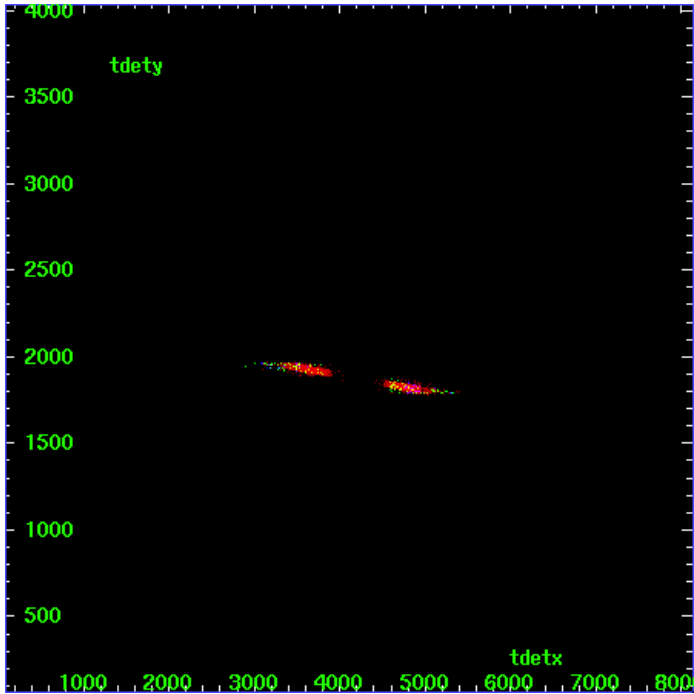
HEG Zero Order



HEG Order Sort ALL

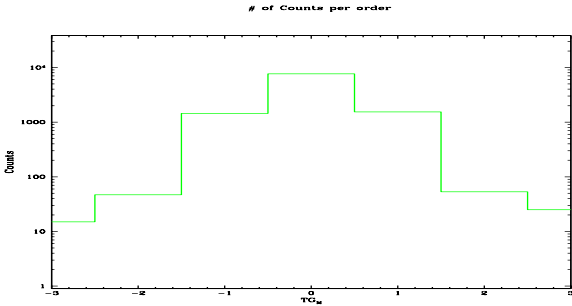


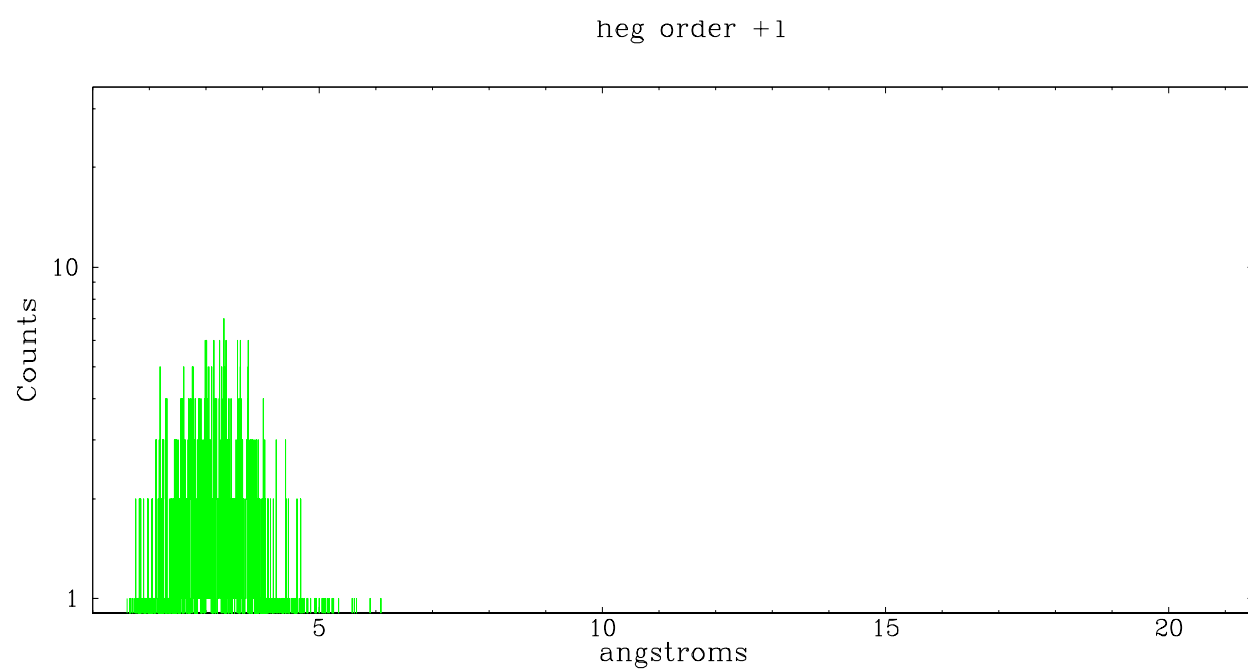
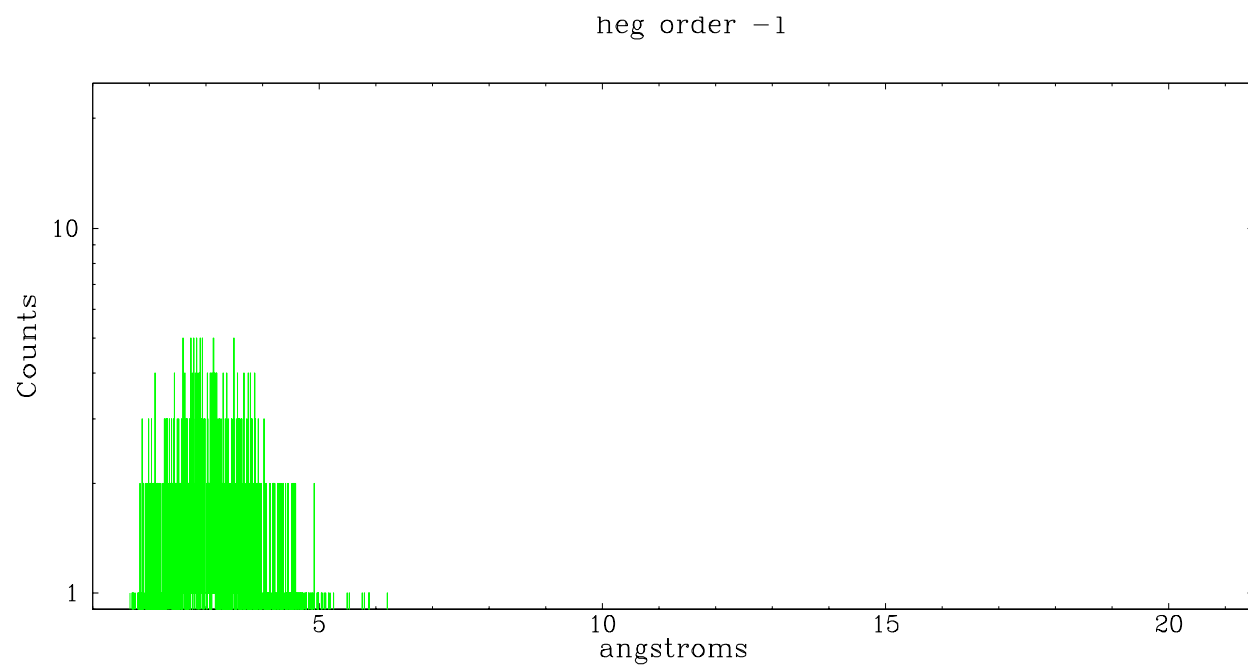
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	15	47	1448	7636	1536	53	25

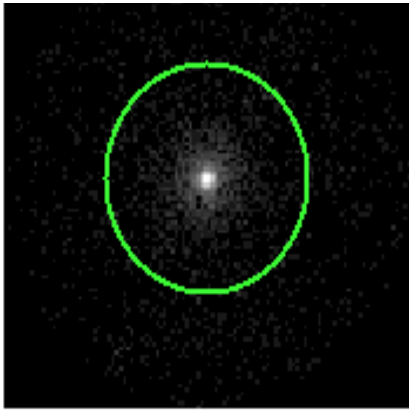




3.2 MEG Arm



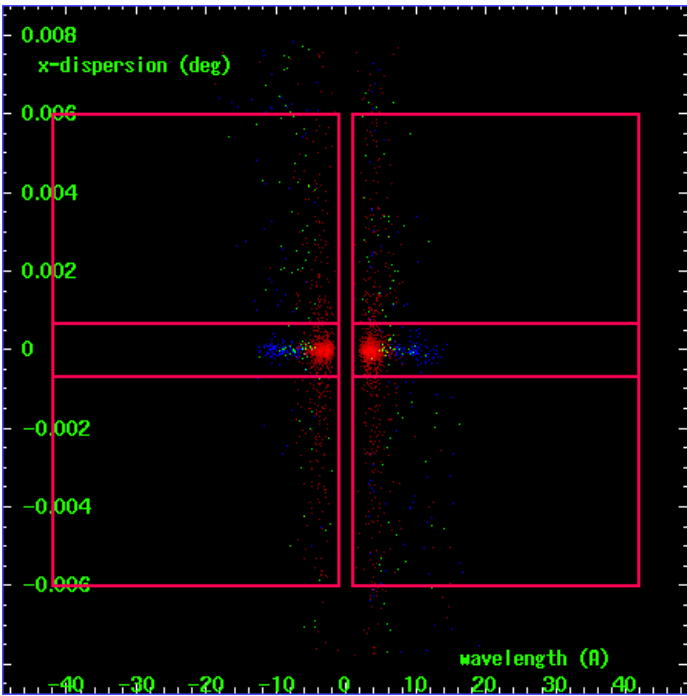
MEG Order Sort 123



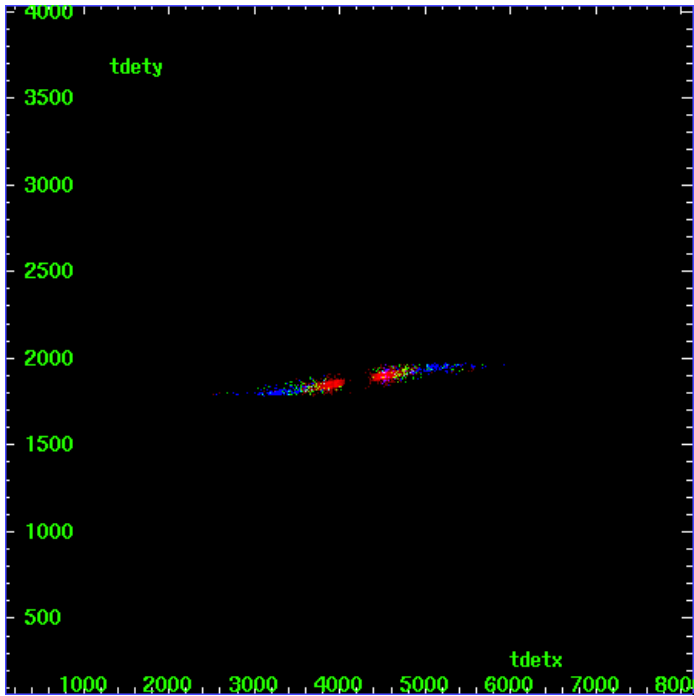
MEG Zero Order



MEG Order Sort ALL

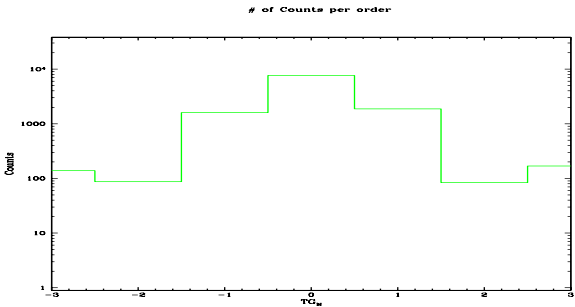


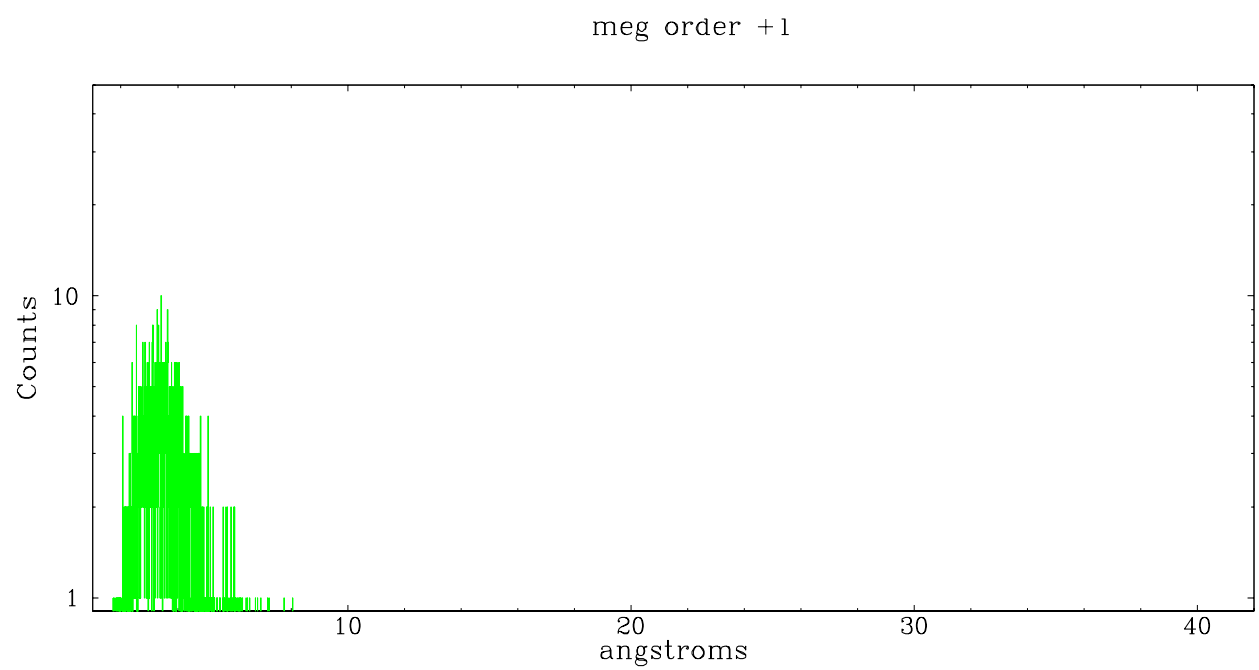
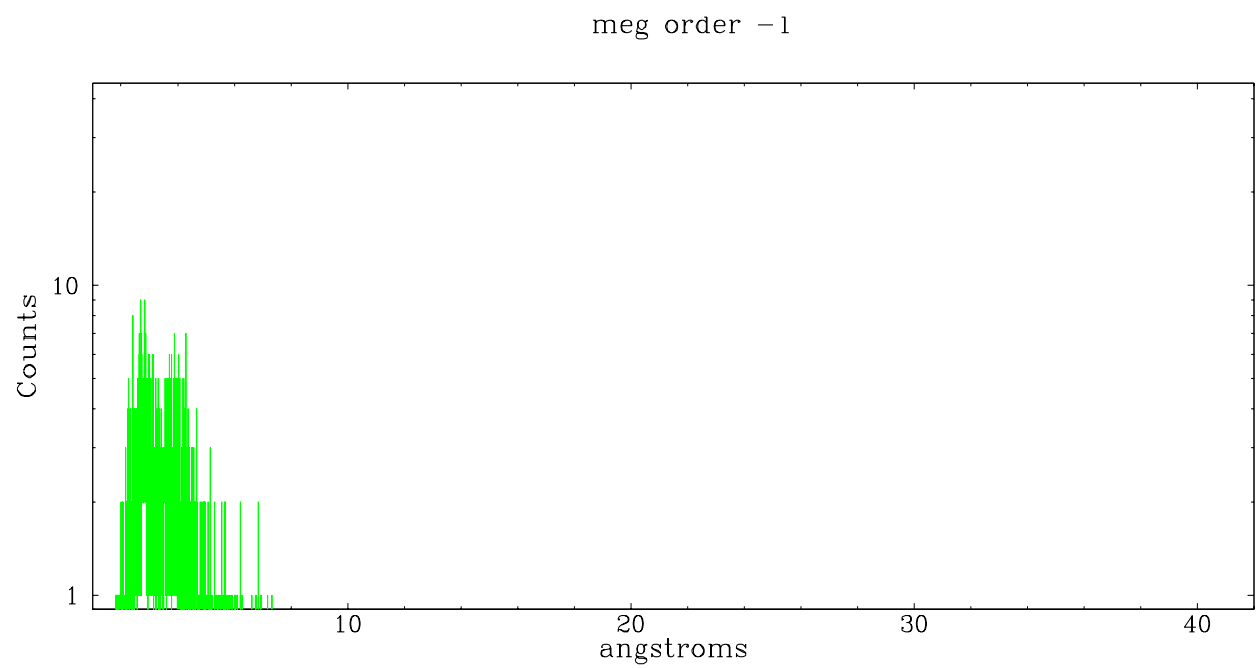
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	139	87	1594	7636	1867	84	169





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.14

A.2 Comments

This grating observation was taken with a subarray of 184 rows.
Therefore
the spectral arms are truncated and only the higher energies are
available
in the dispersed spectrum.