

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3804 - L2 Version 001
Chandra X-Ray Center

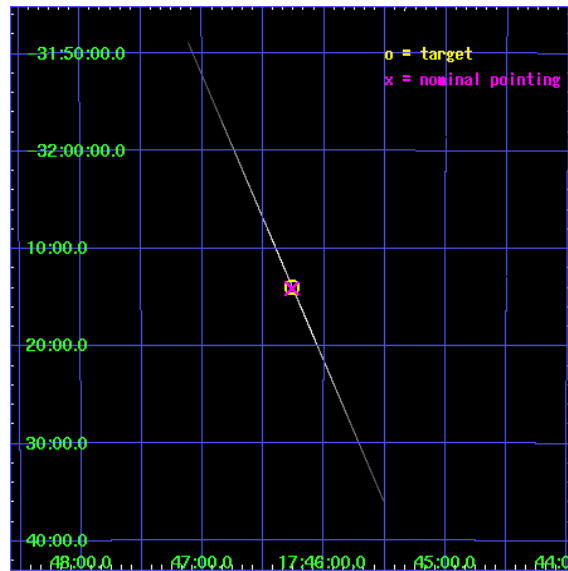
L2 Processing Date : Aug 8 2006

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1 Front

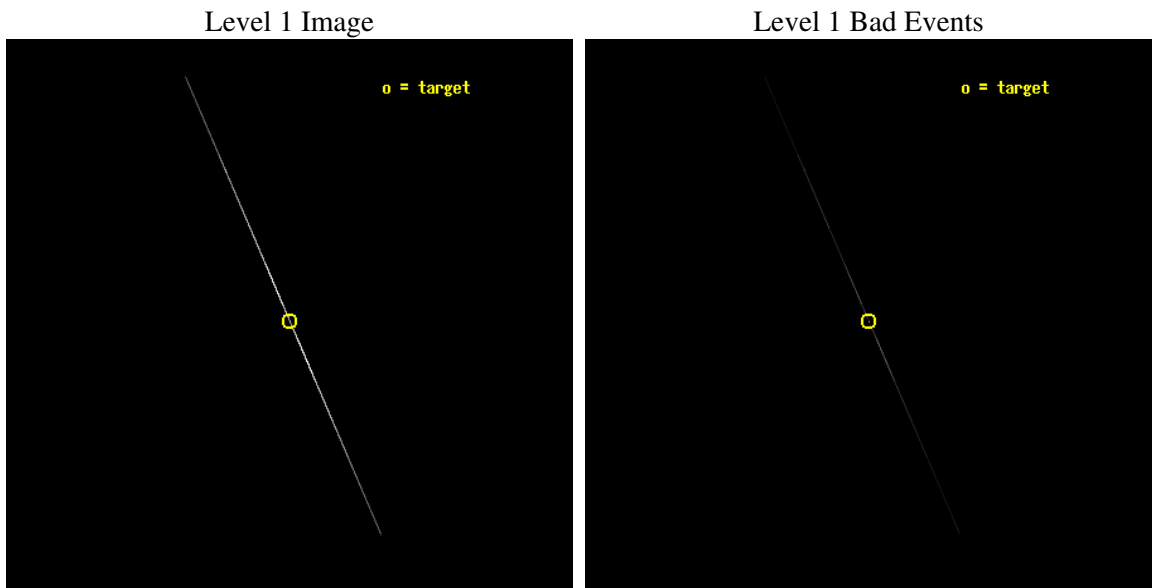
seq_num	400291
obs_id	3804
title	DIAGNOSING THE ACCRETION FLOW GEOMETRY OF A GALACTIC BLACK HOLE IN OUTBURST WITH CHANDRA
observer	Prof. Walter Lewin
object	H1743-322
ra_targ	266.565042
dec_targ	-32.2335
ra_nom	266.56613819592
dec_nom	-32.235516979431
roll_nom	66.550905297476
revision	3
ontime	40145.007396728
livetime	39988.190961584
ontime4	45522.0
ontime5	45522.0
ontime6	42126.580343068
ontime7	40145.007396728
ontime8	45522.0
ontime9	45522.0
l2events	15268353



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.8
caldsver	3.2.2
date	2006-08-03T05:20:55
revision	2

sched_exp_time	45000.000000
ontime	40648.664312273
ontime4	45891.412341982
ontime5	46057.760704905
ontime6	42501.828614801
ontime7	40648.664312273
ontime8	45895.788208306
ontime9	45885.573405504
l1events	16499100

2.1.3 Events

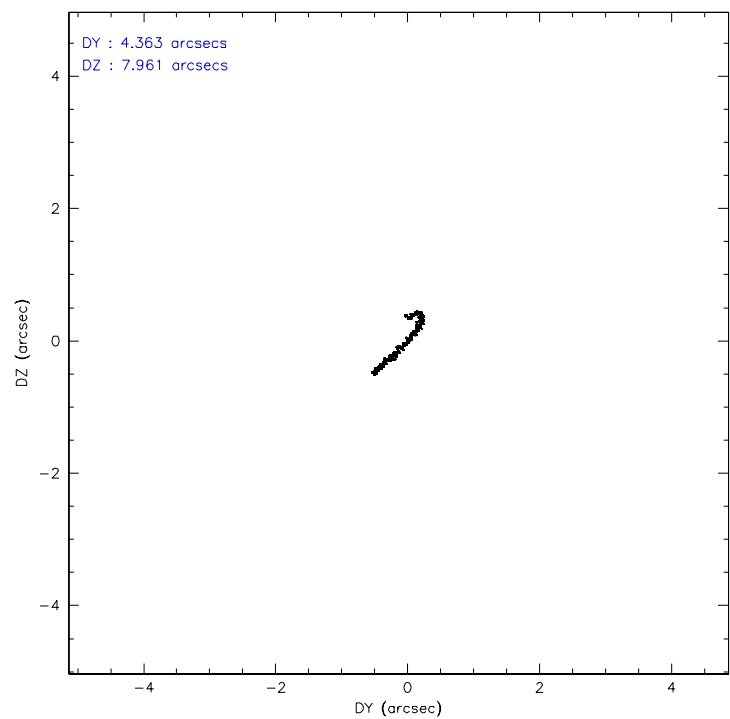
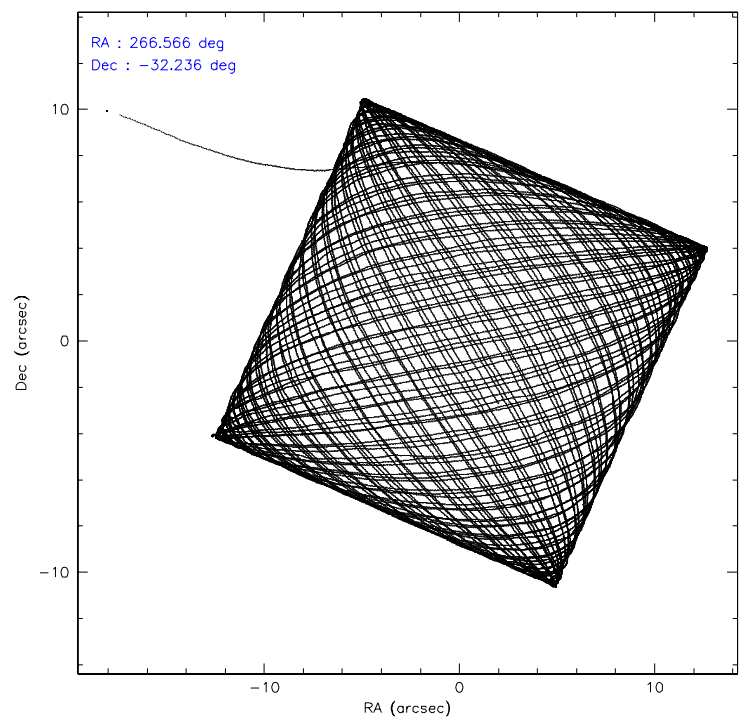
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	221395	1205345	5971714	6902360	1900267	298019
rejected events	11653	39674	61019	117396	29877	14340
rejected %	5%	3%	1%	1%	1%	4%

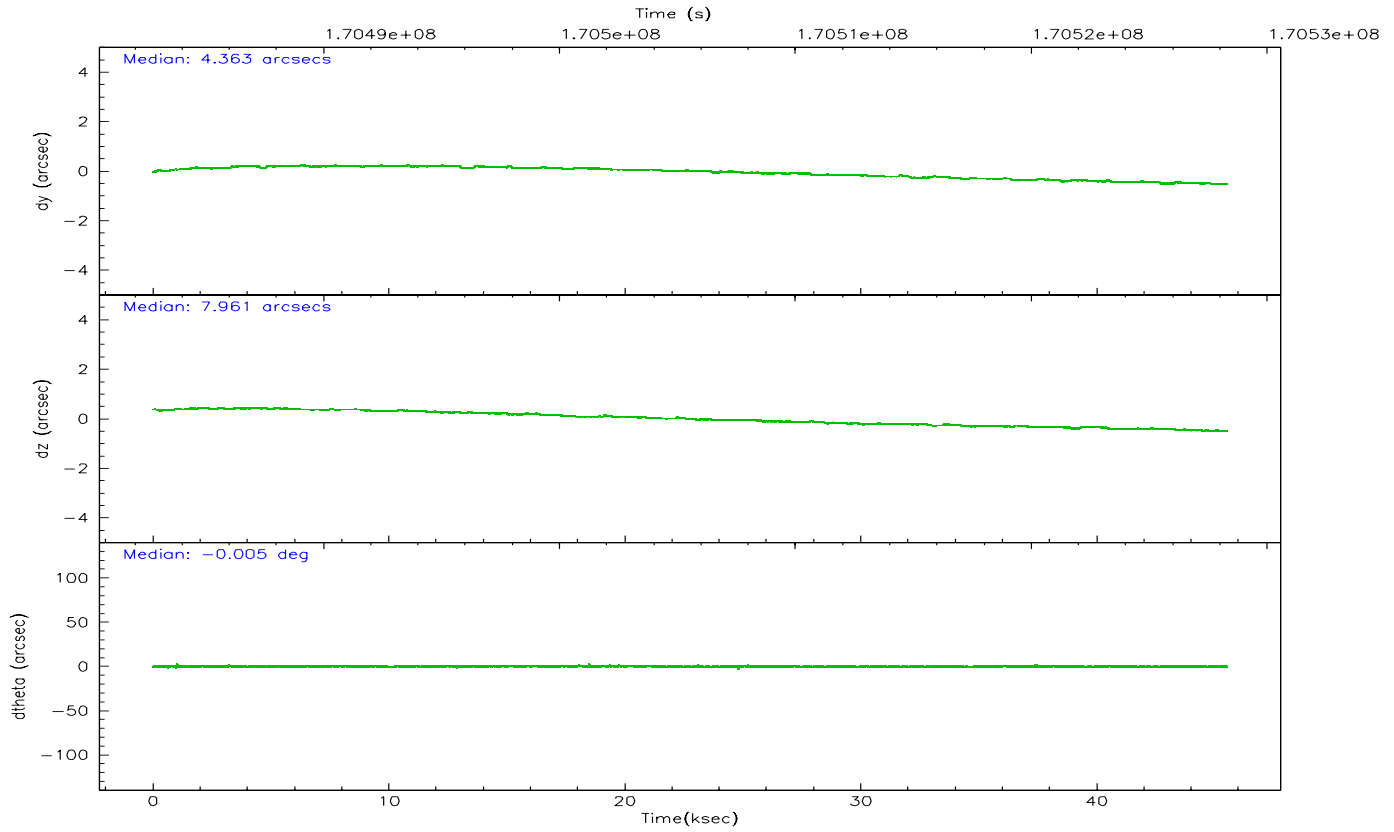
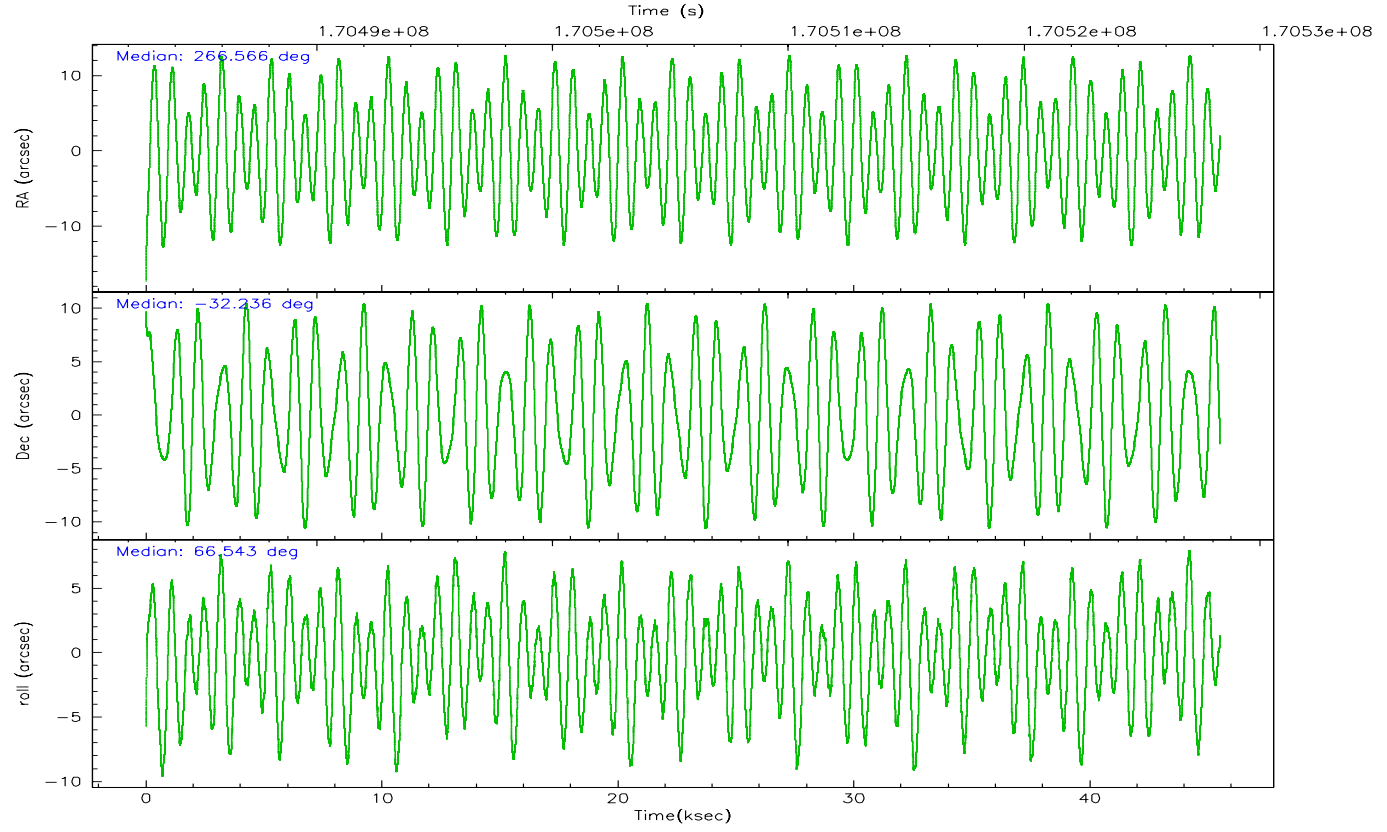
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	16282	219406	1521051	1106036	1043964	39381
	7%	18%	25%	16%	54%	13%
grade 1 events	222	464	5782	7022	3424	300
	0%	0%	0%	0%	0%	0%
grade 2 events	155645	486173	3721377	1992646	598471	197558
	70%	40%	62%	28%	31%	66%
grade 3 events	7499	49841	81622	622538	66277	8237
	3%	4%	1%	9%	3%	2%
grade 4 events	8038	49251	81175	619259	63987	8699
	3%	4%	1%	8%	3%	2%
grade 5 events	10564	33562	43304	93750	22279	13017
	4%	2%	0%	1%	1%	4%
grade 6 events	23145	366648	517403	2461109	101865	30827
	10%	30%	8%	35%	5%	10%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

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	CC33_GRADED	CC33_GRADED	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	266.570256	266.5661381959223	Alternating exposures requested	N	N
Pointing Dec	-32.262534	-32.2355169794308	Primary exposure time	0.000000	0
Pointing Roll	66.396480	66.55090529747602			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.632523	-182.6373491900168			
SIM translation stage offset (mm)	-7.5	-7.495173392990978			
Observation start time	170483299.184000	170482161.17775			
Observation start date	2003-05-28T04:27:15	2003-05-28T04:09:21			
Observation end time	170528299.184000	170528615.71722			
Observation end date	2003-05-28T16:57:15	2003-05-28T17:03:35			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



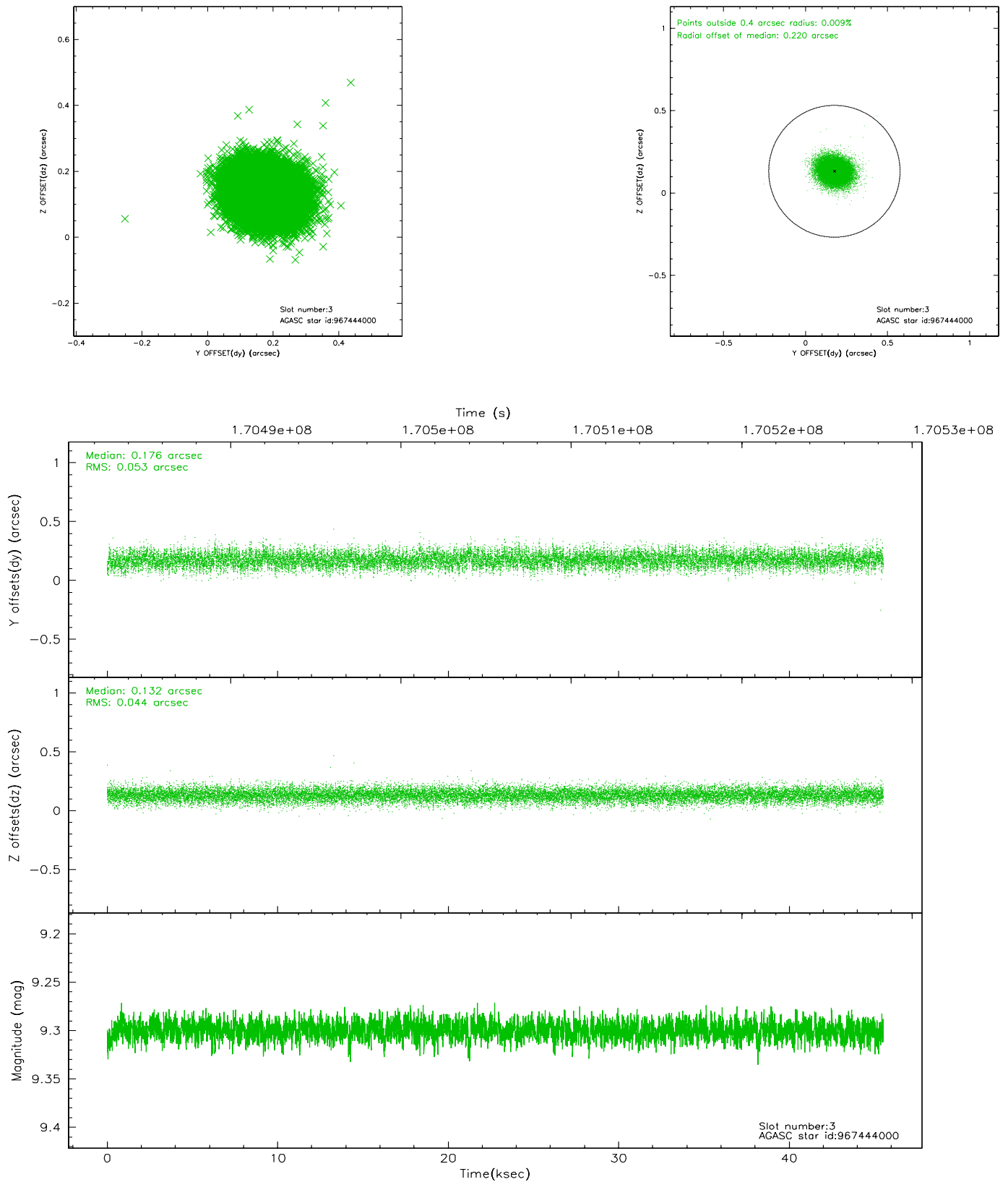


Slot Statistics

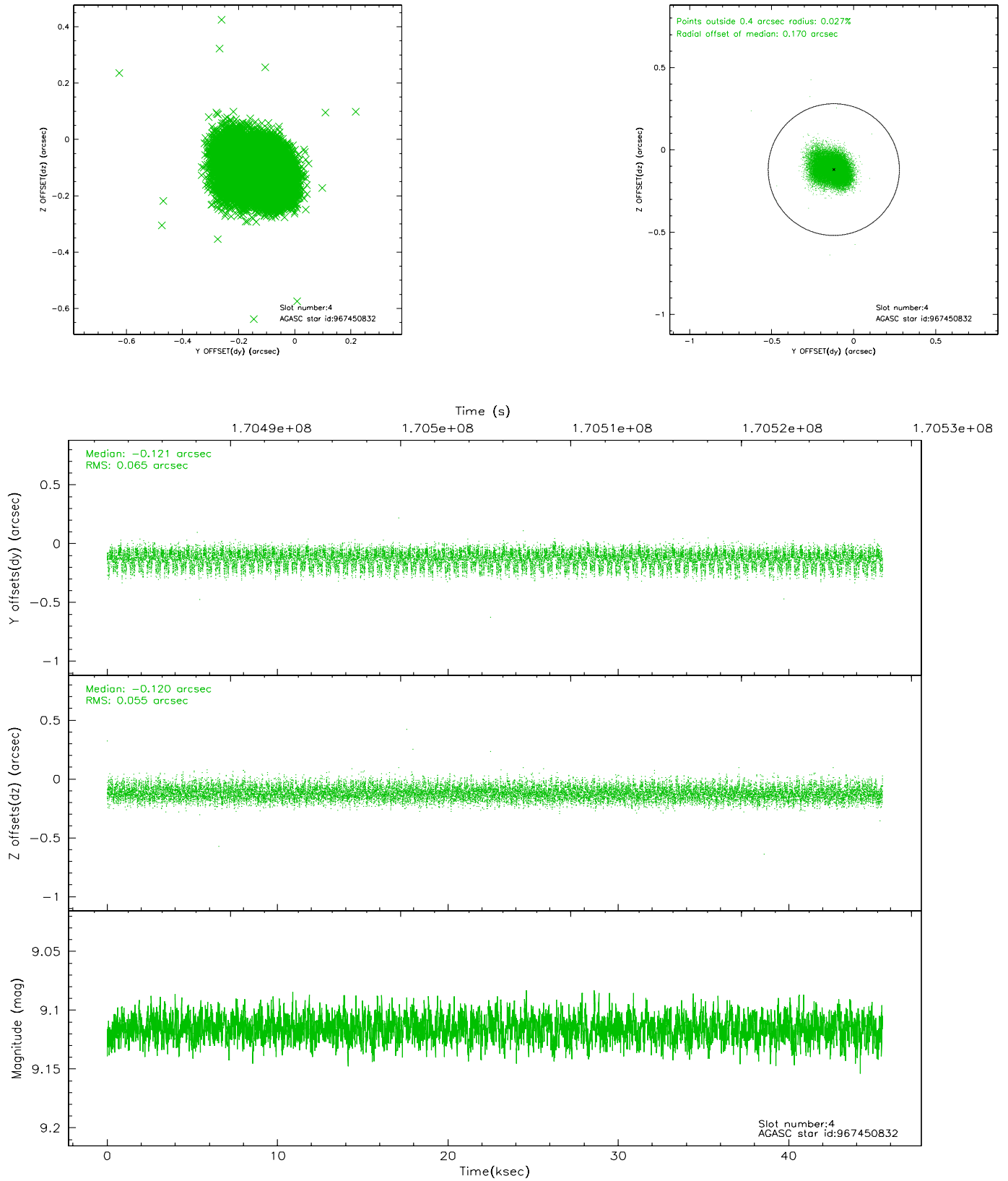
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	11103	0.076	0.217	0.011	0.019	0.000000	0.000000	939.66	-1879.00
1	FID	ACIS-S-2	7.09	11105	-0.137	-0.124	0.013	0.023	0.000000	0.000000	-756.45	-1883.89
2	FID	ACIS-S-4	7.17	11105	0.036	-0.089	0.009	0.015	0.000000	0.000000	2156.87	24.84
3	GUIDE	967444000	9.30	22198	0.176	0.132	0.074	0.120	266.327670	-32.824762	-2148.89	-138.24
4	GUIDE	967450832	9.12	22197	-0.121	-0.120	0.090	0.145	266.078096	-31.879979	656.13	1928.93
5	GUIDE	967448688	8.08	22208	0.081	-0.159	0.080	0.129	265.570021	-32.523235	-2088.79	2400.57
6	GUIDE	967446352	7.75	22207	-0.061	0.046	0.058	0.101	267.069988	-32.671157	-744.67	-1977.84
7	GUIDE	967451816	9.28	22200	-0.072	0.105	0.093	0.151	267.266669	-31.901374	2037.55	-1432.09

2.4 Star Slots

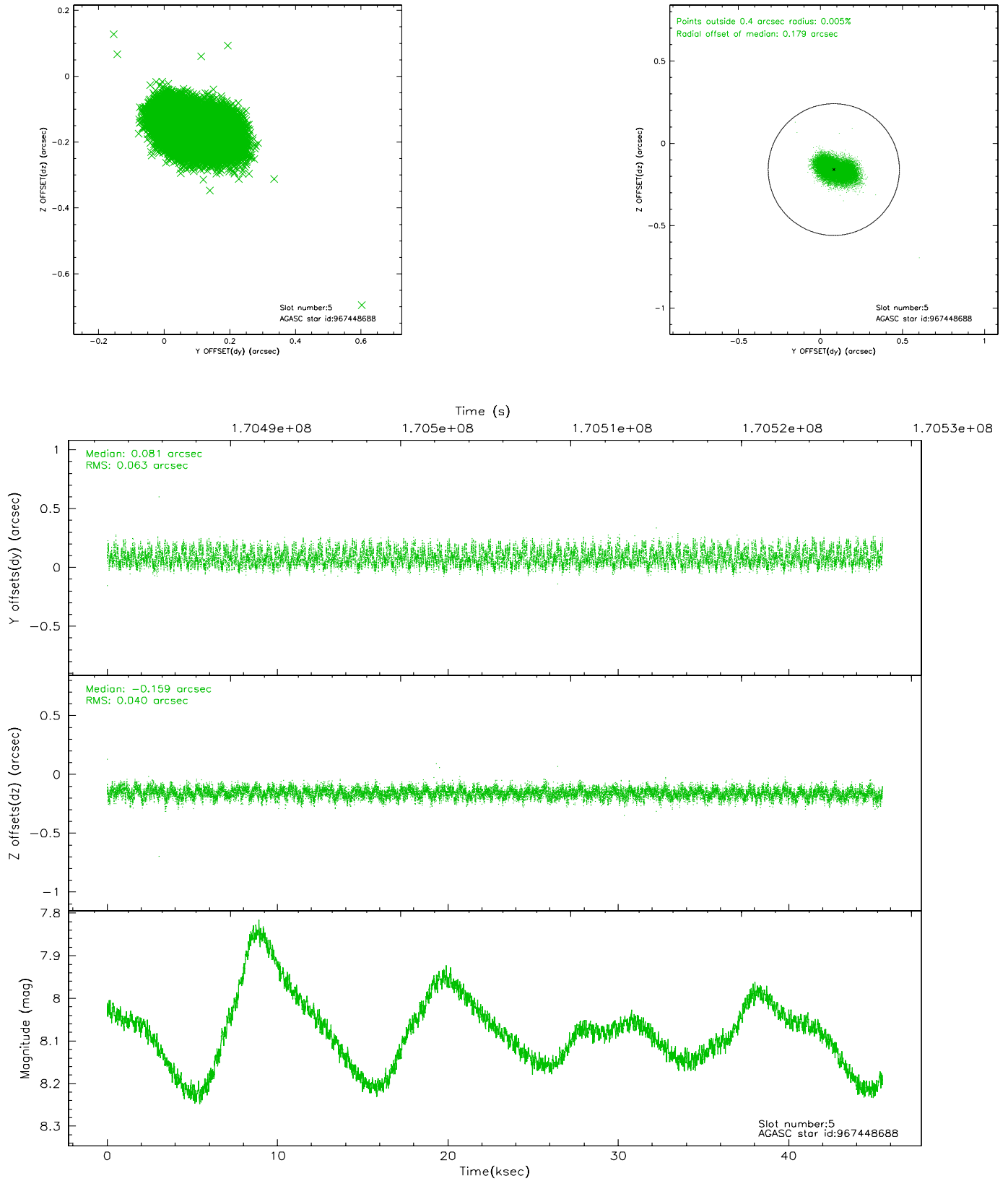
2.4.1 Slot 3



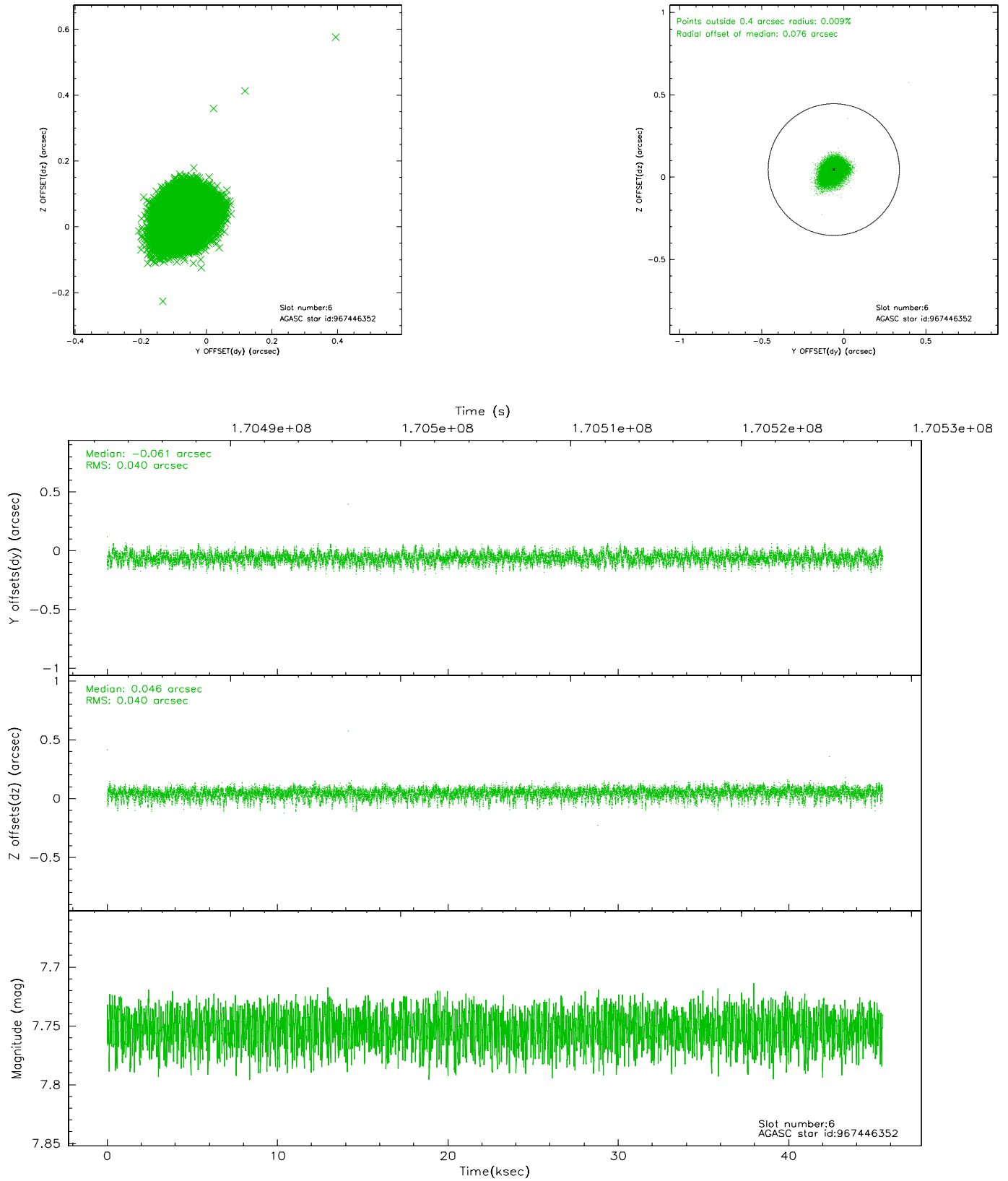
2.4.2 Slot 4



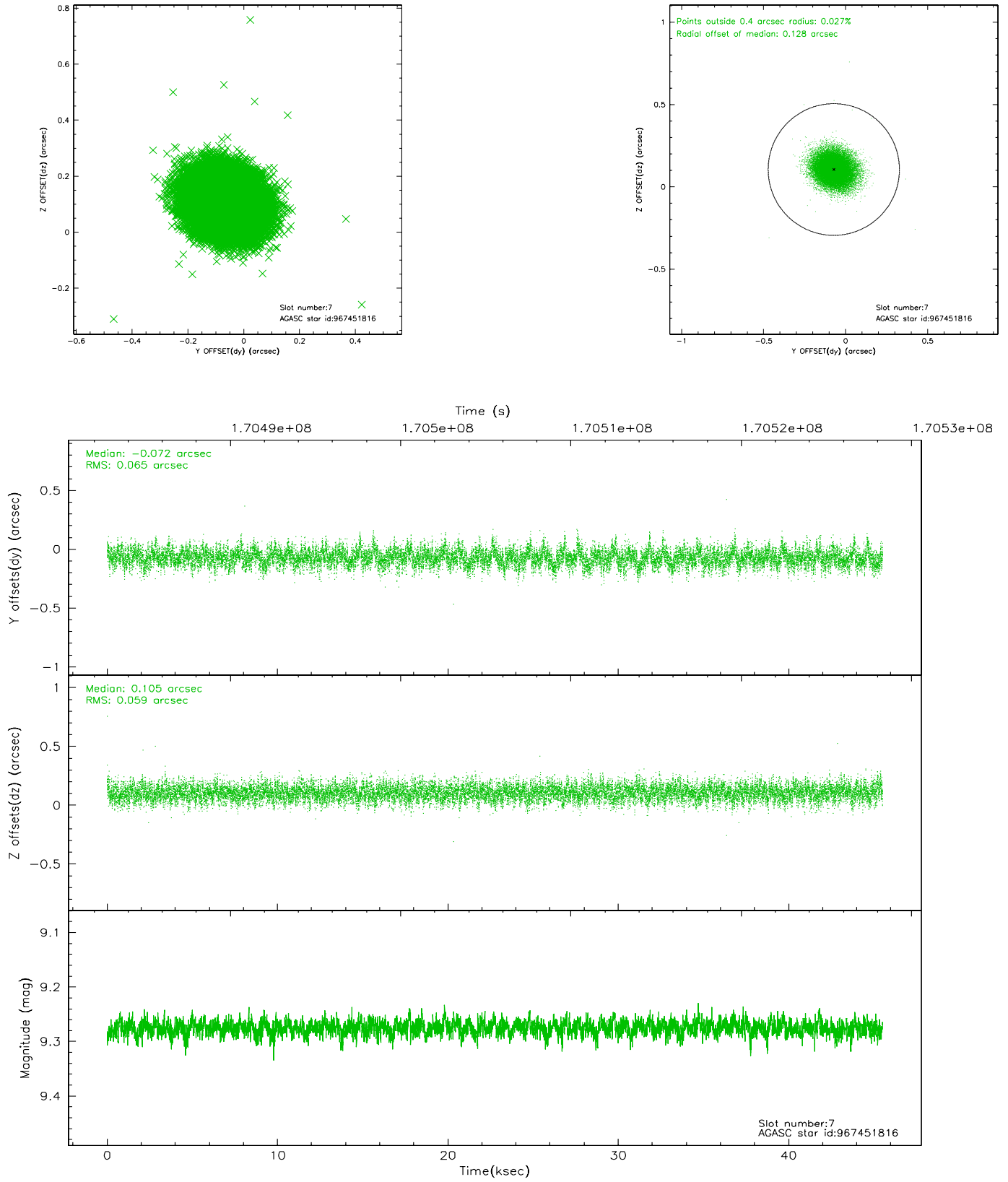
2.4.3 Slot 5



2.4.4 Slot 6

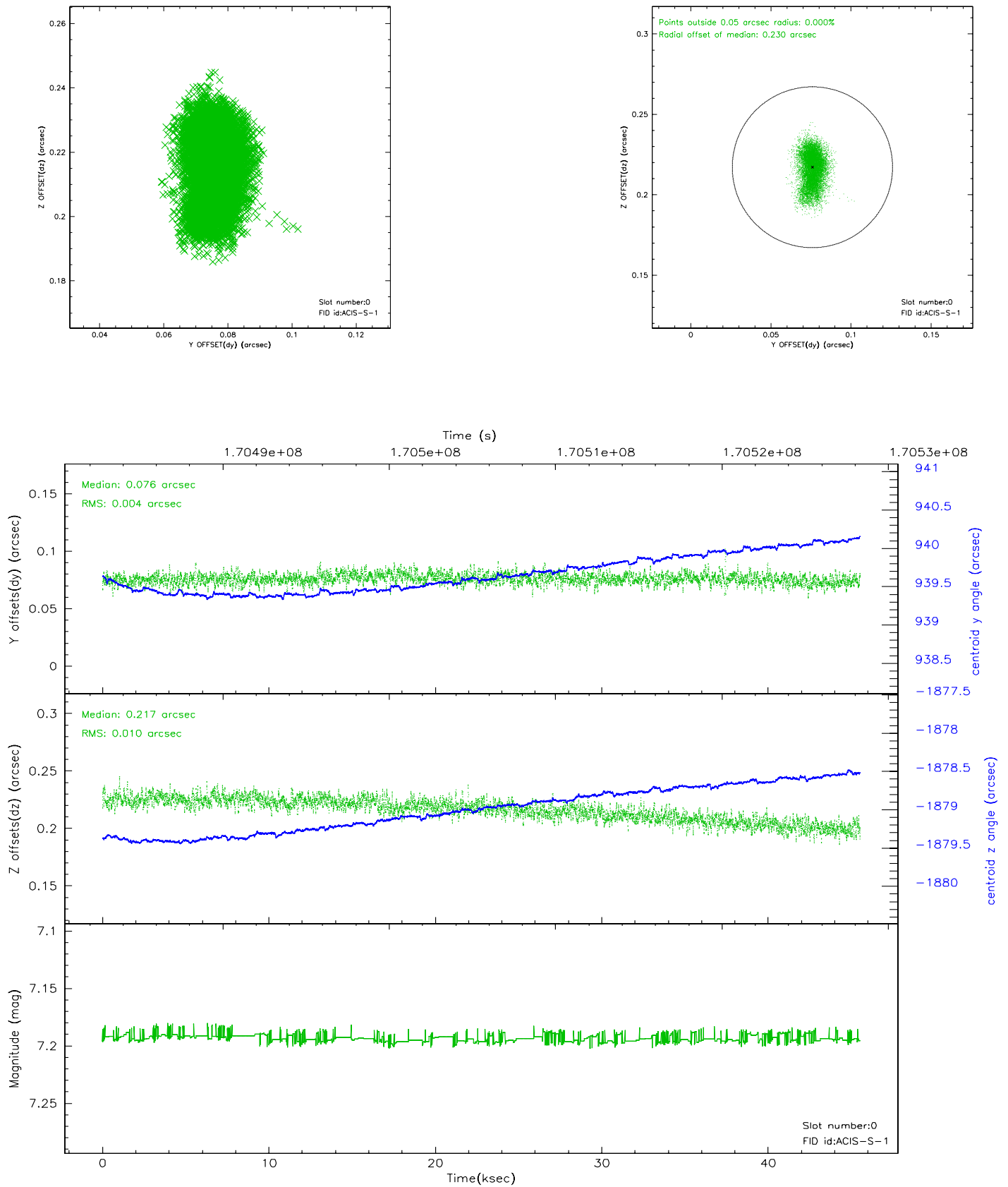


2.4.5 Slot 7

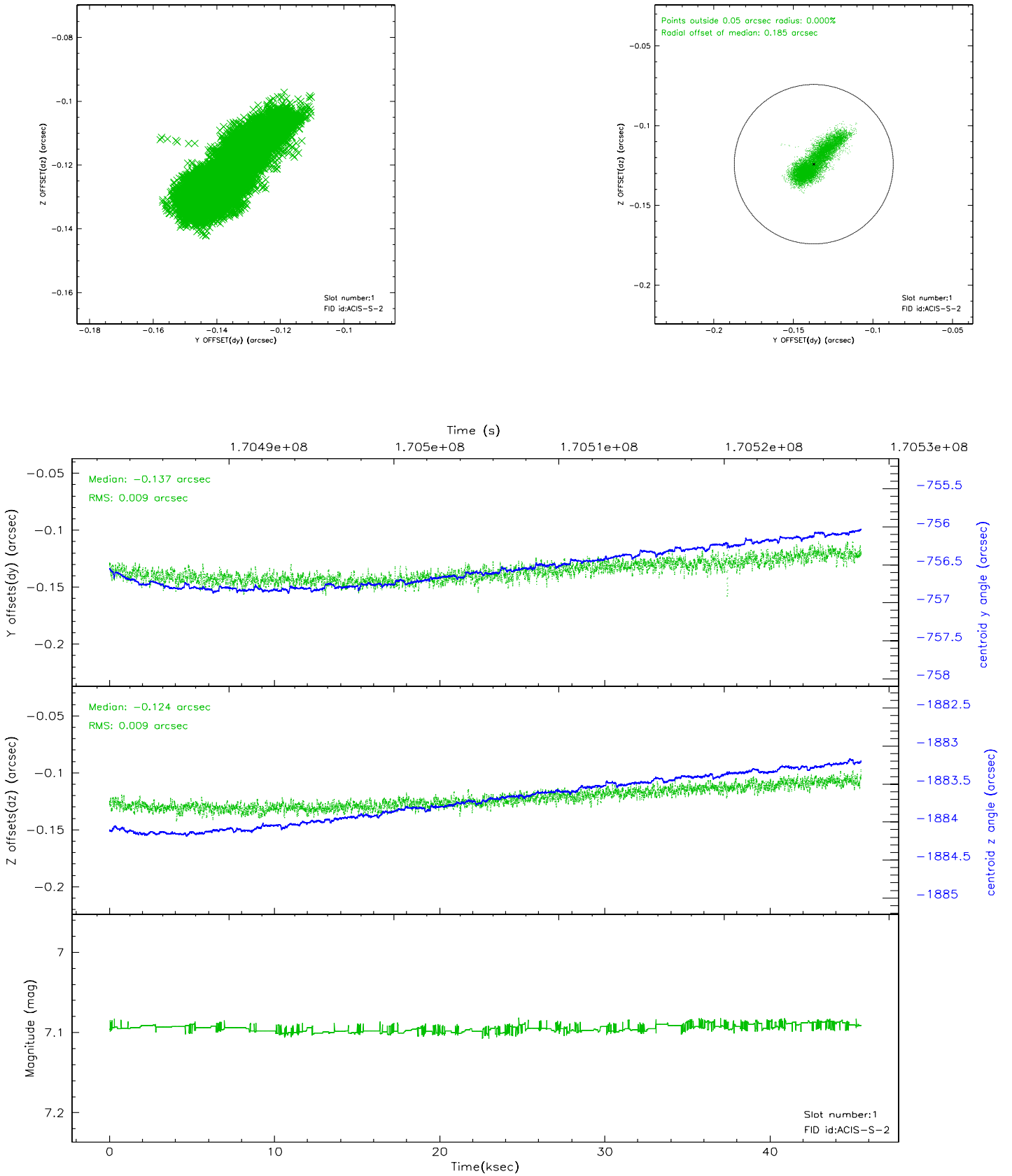


2.5 FID Slots

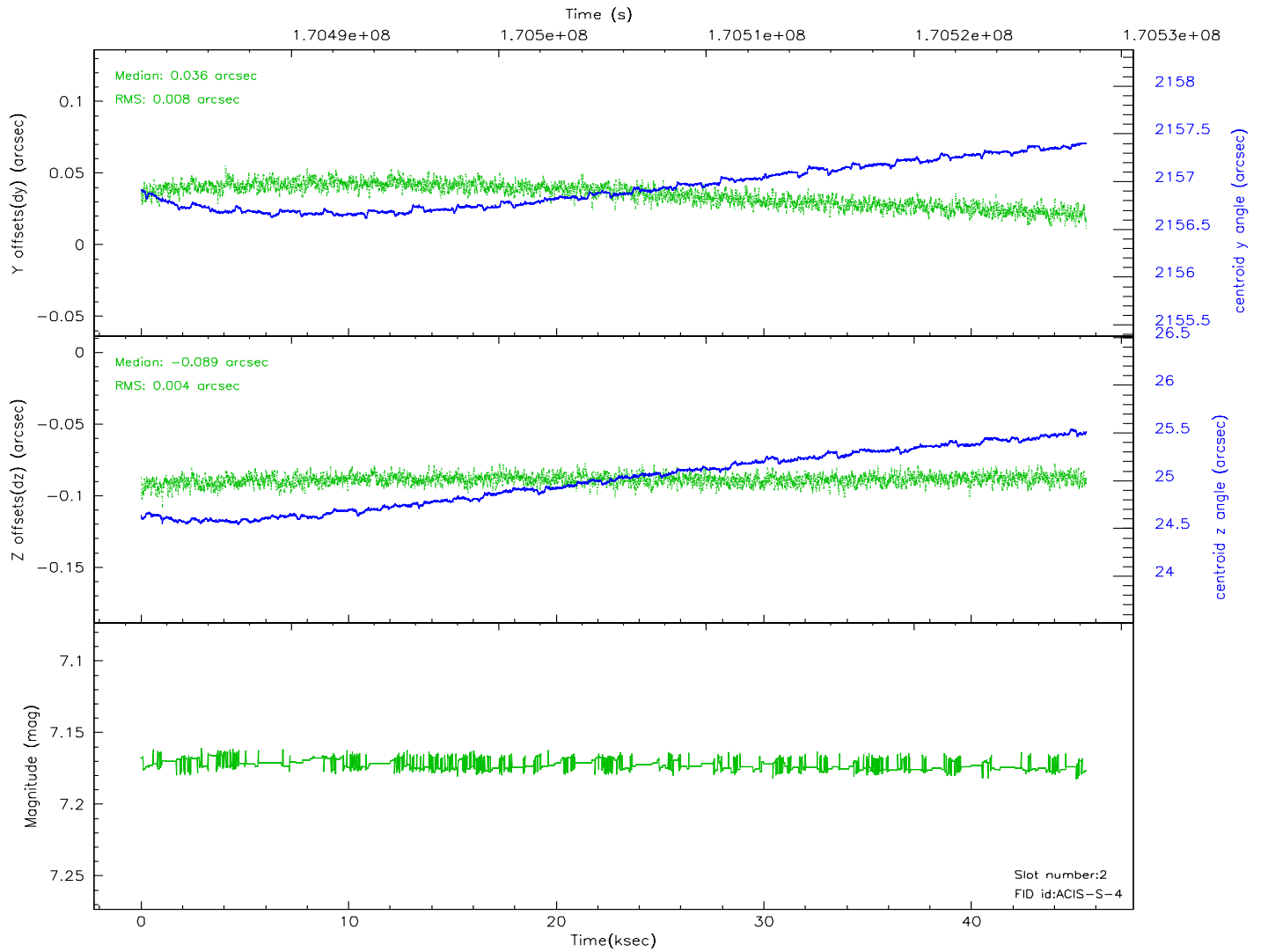
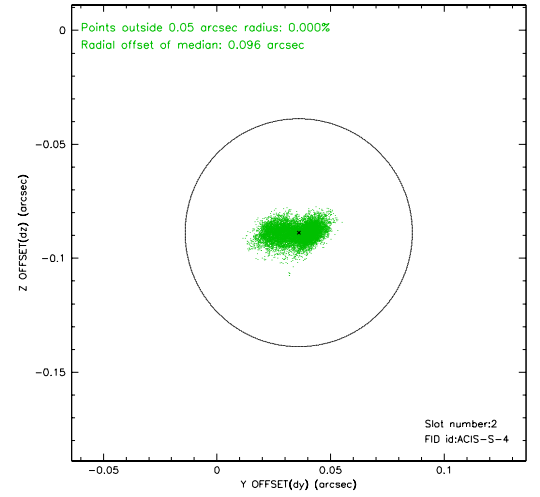
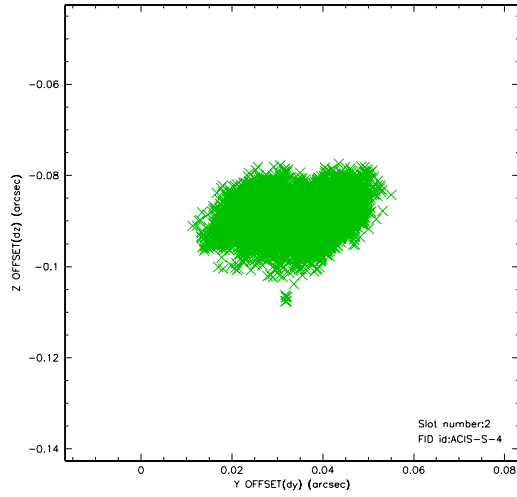
2.5.1 Slot 0



2.5.2 Slot 1

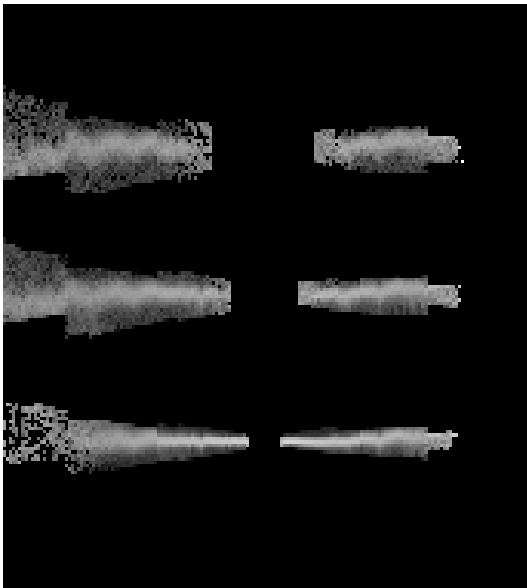


2.5.3 Slot 2



3 Gratings

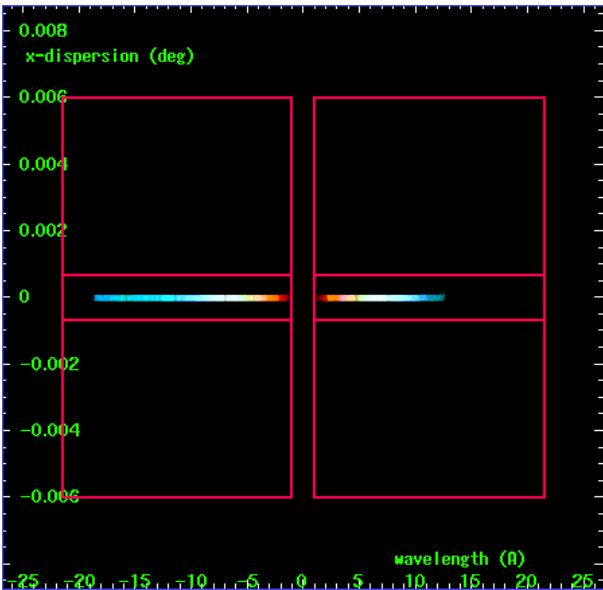
3.1 HEG Arm



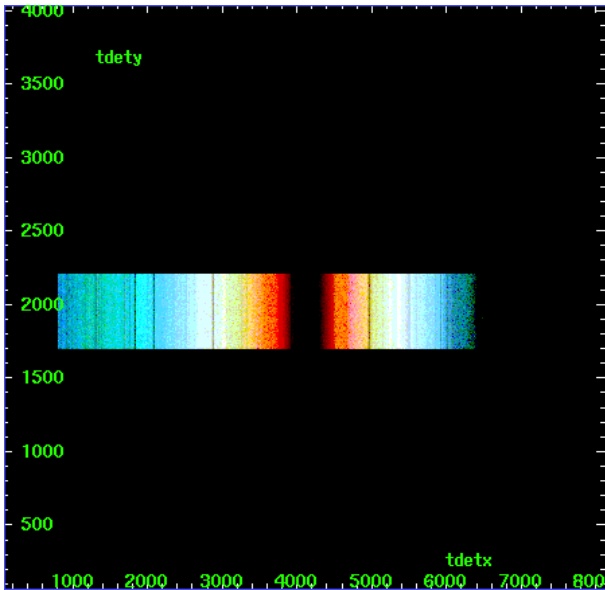
HEG Order Sort 123



HEG Order Sort ALL

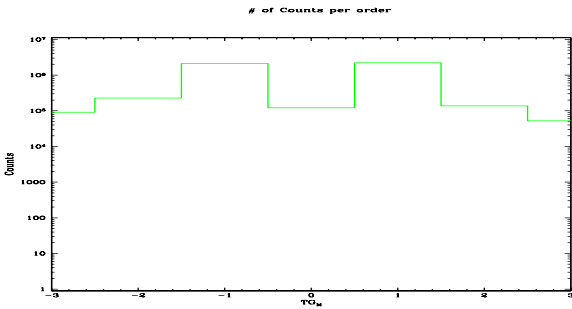


Spot Image HEG

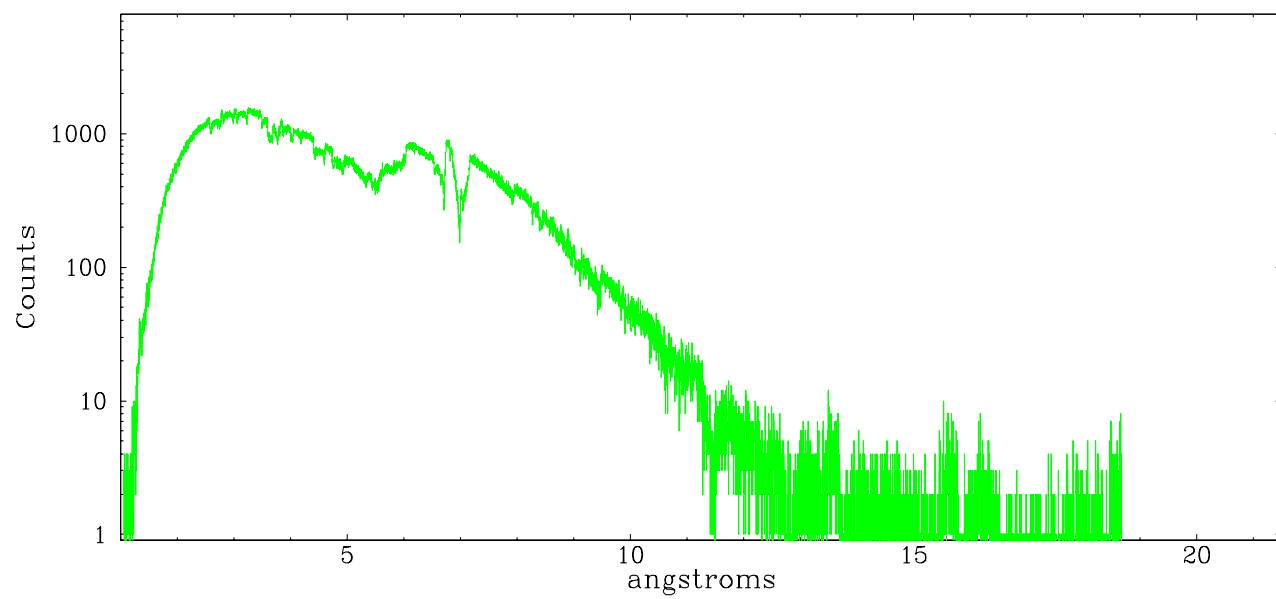


Full Detector HEG

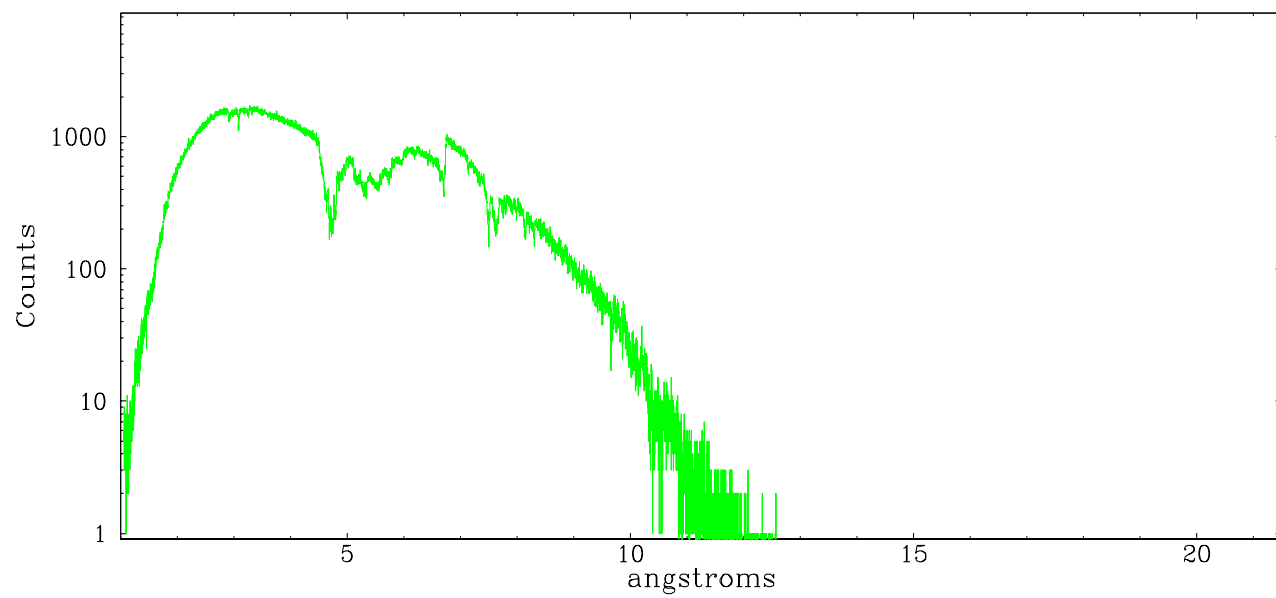
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	90650	228566	2113203	121925	2211832	136576	52071



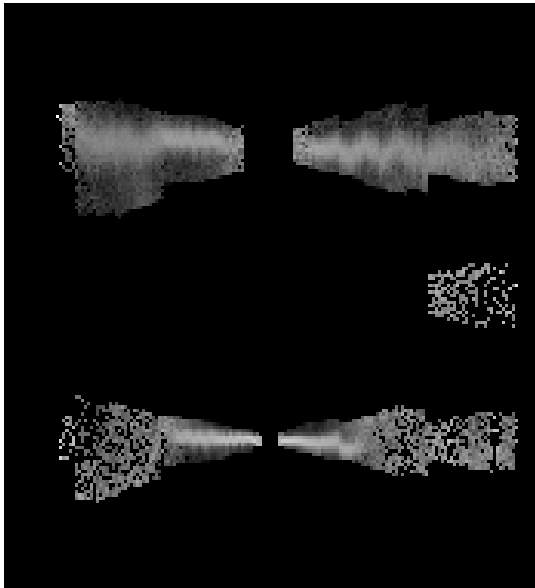
heg order -1



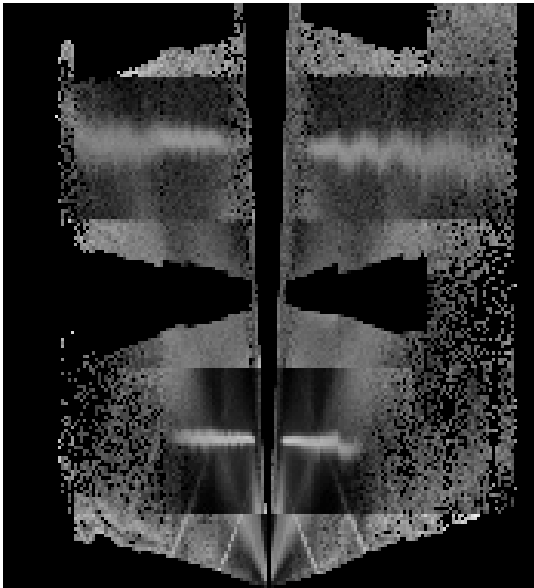
heg order +1



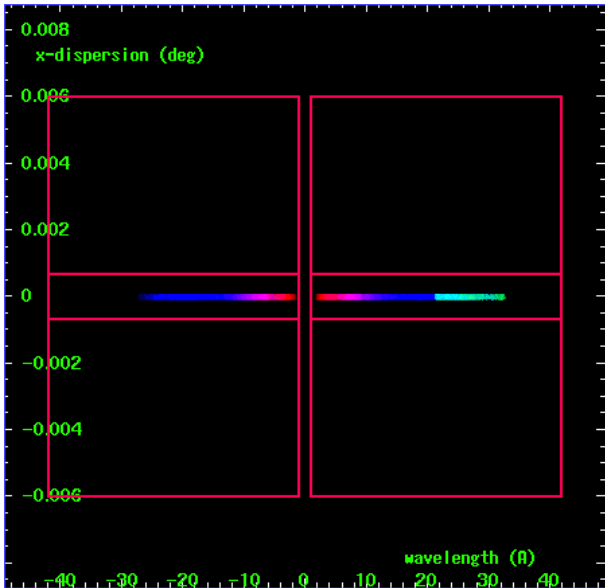
3.2 MEG Arm



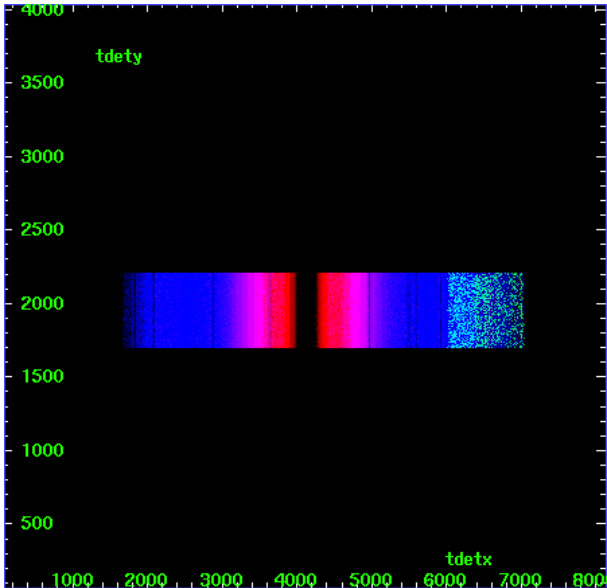
MEG Order Sort 123



MEG Order Sort ALL

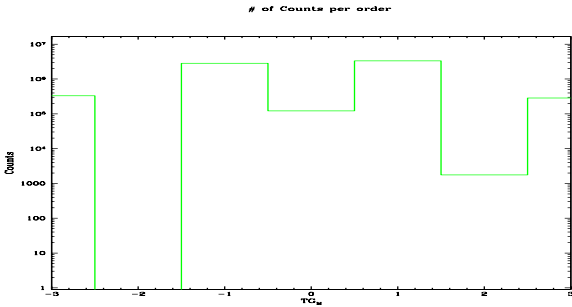


Spot Image MEG

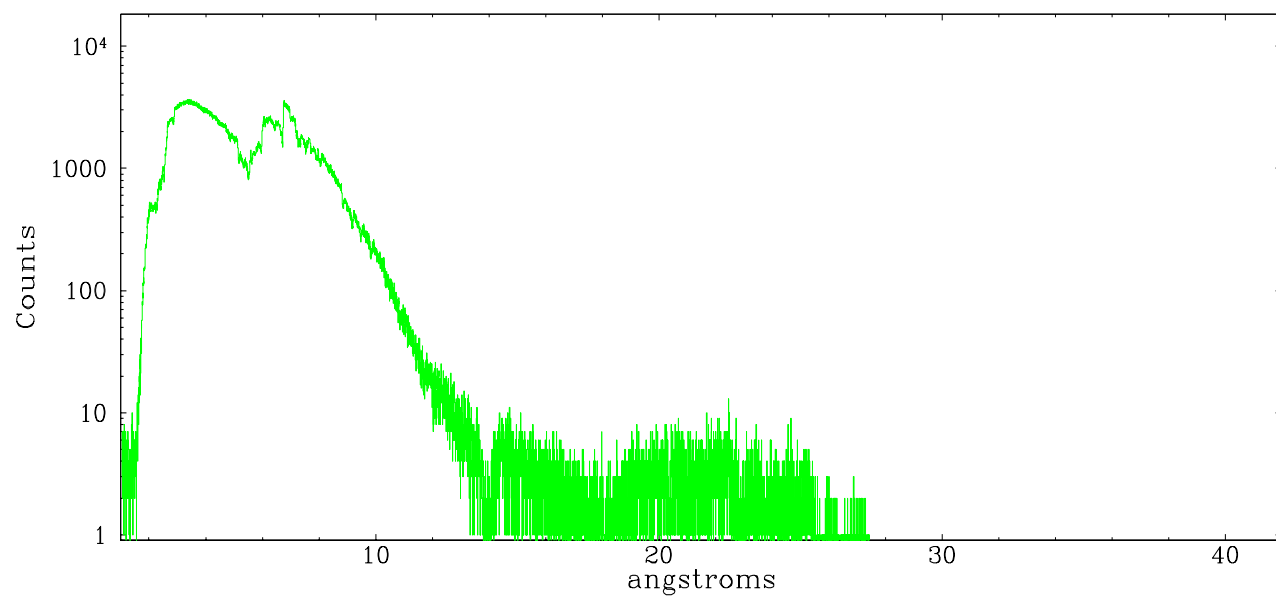


Full Detector MEG

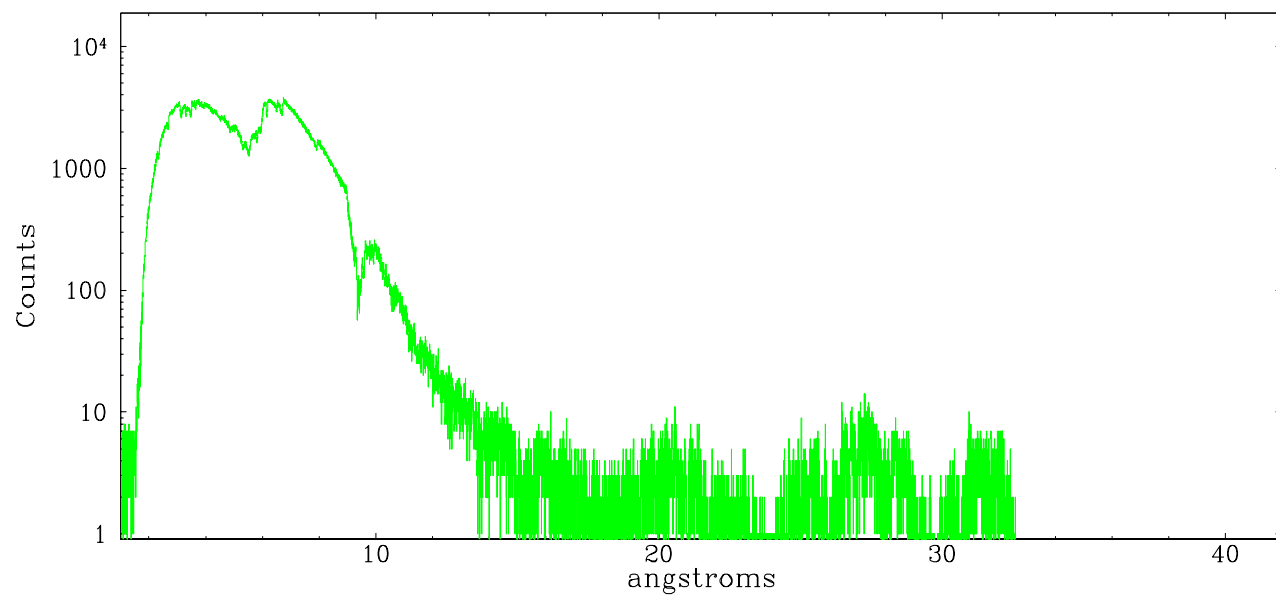
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	330976	0	2822513	121925	3335158	1763	286020



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.08.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.147

A.2 Comments