

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1019 - L2 Version 001
Chandra X-Ray Center

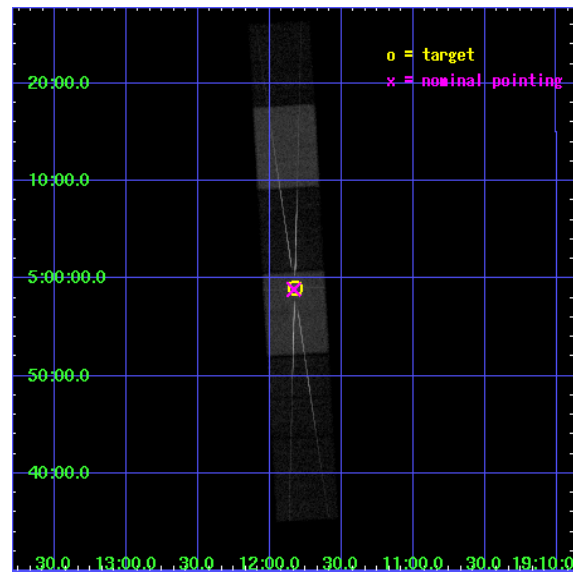
L2 Processing Date : Nov 15 2006

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1 Front

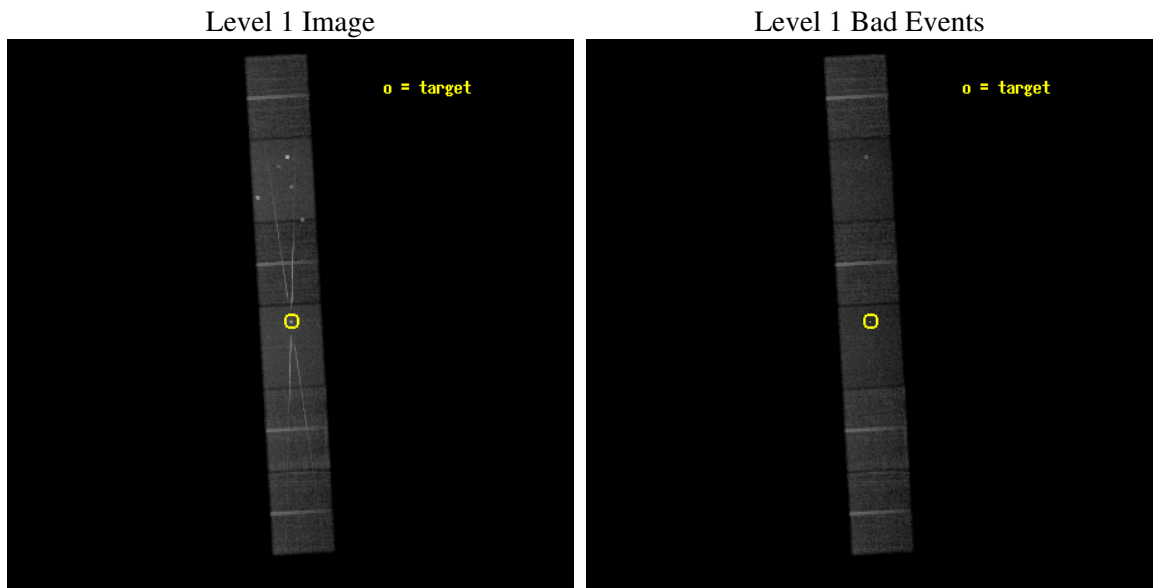
seq_num	400097
obs_id	1019
title	HIGH RESOLUTION X-RAY SPECTROSCOPY OF THE PRECESSING JET IN SS 433 (PART III)
observer	Prof. Claude Canizares
object	SS 433
dtcycle	0
cycle	P
ra_targ	287.95625
dec_targ	4.982778
ra_nom	287.9578908275
dec_nom	4.9813340260127
roll_nom	86.676002532867
revision	2
ontime	23735.0
livetime	23351.659163177
ontime4	23735.0
ontime5	23735.0
ontime6	23735.0
ontime7	23735.0
ontime8	23735.0
ontime9	23735.0
l2events	238402



2 OBI

2.1 OBI

2.1.1 Images

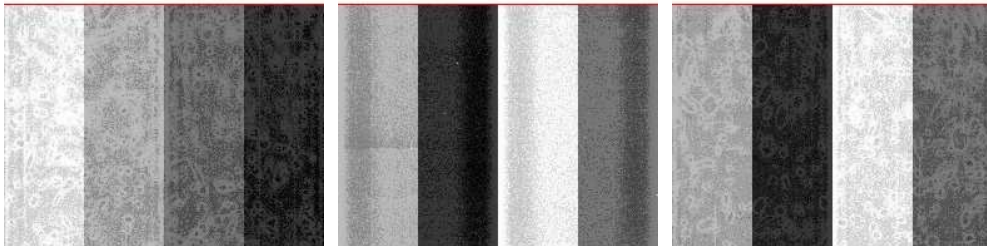


2.1.2 Bias

Chip 4

Chip 5

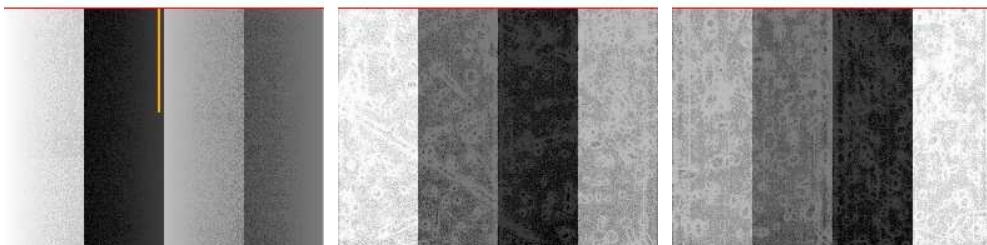
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-15T17:21:23
revision	2

sched_exp_time	23619.000000
ontime	24015.05604881
ontime4	24015.05604881
ontime5	24015.056078747
ontime6	24015.05604881
ontime7	24015.05604881
ontime8	24015.05604881
ontime9	24015.05604881
l1events	955753

2.1.4 Events

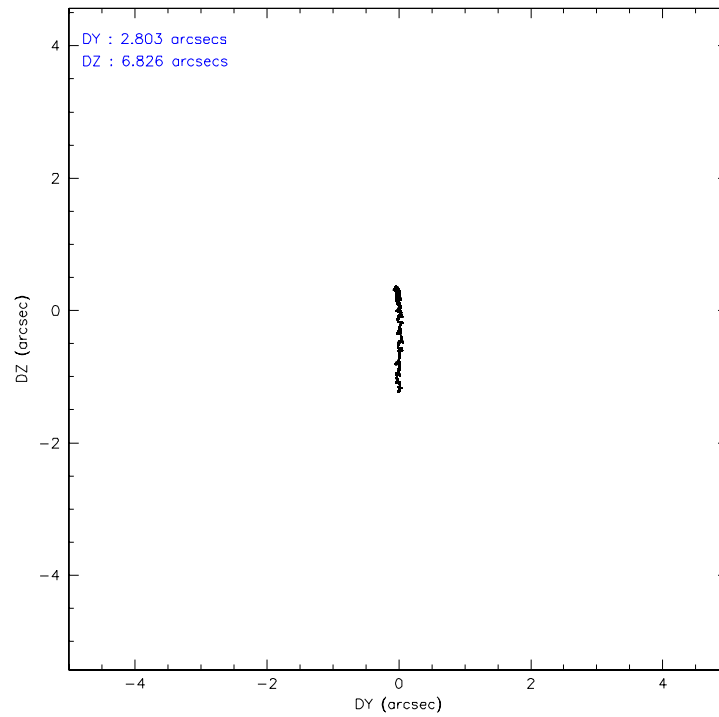
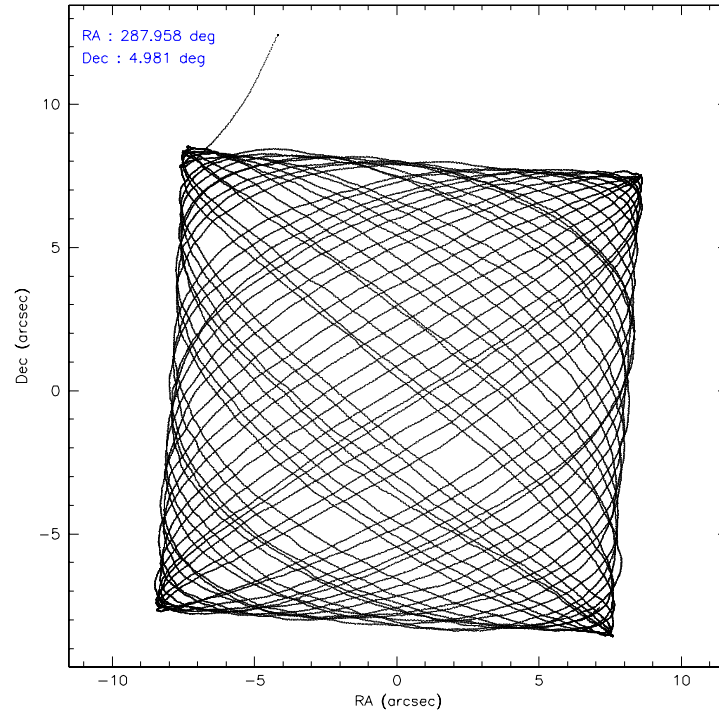
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	141103	186449	147166	190420	166665	123950
rejected events	125825	97453	112547	100619	129047	108341
rejected %	89%	52%	76%	52%	77%	87%

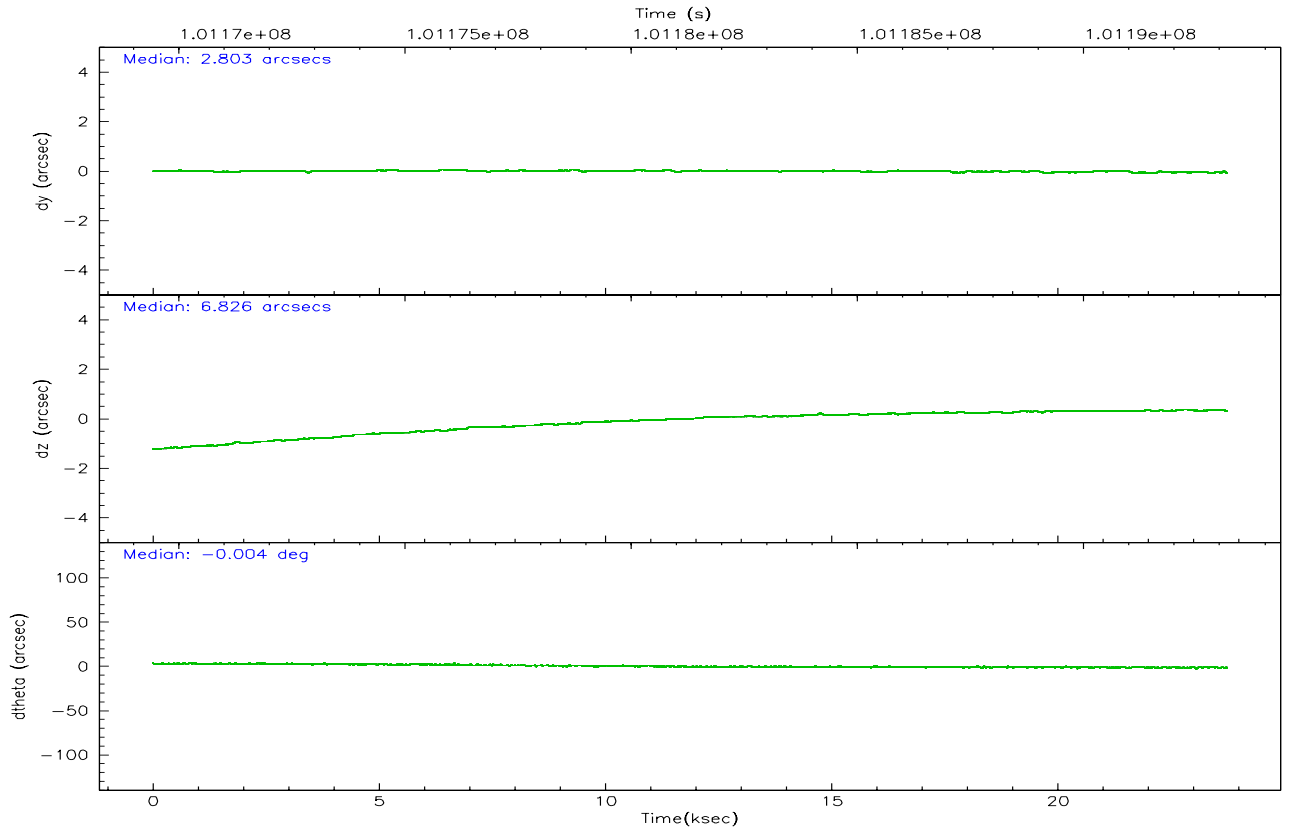
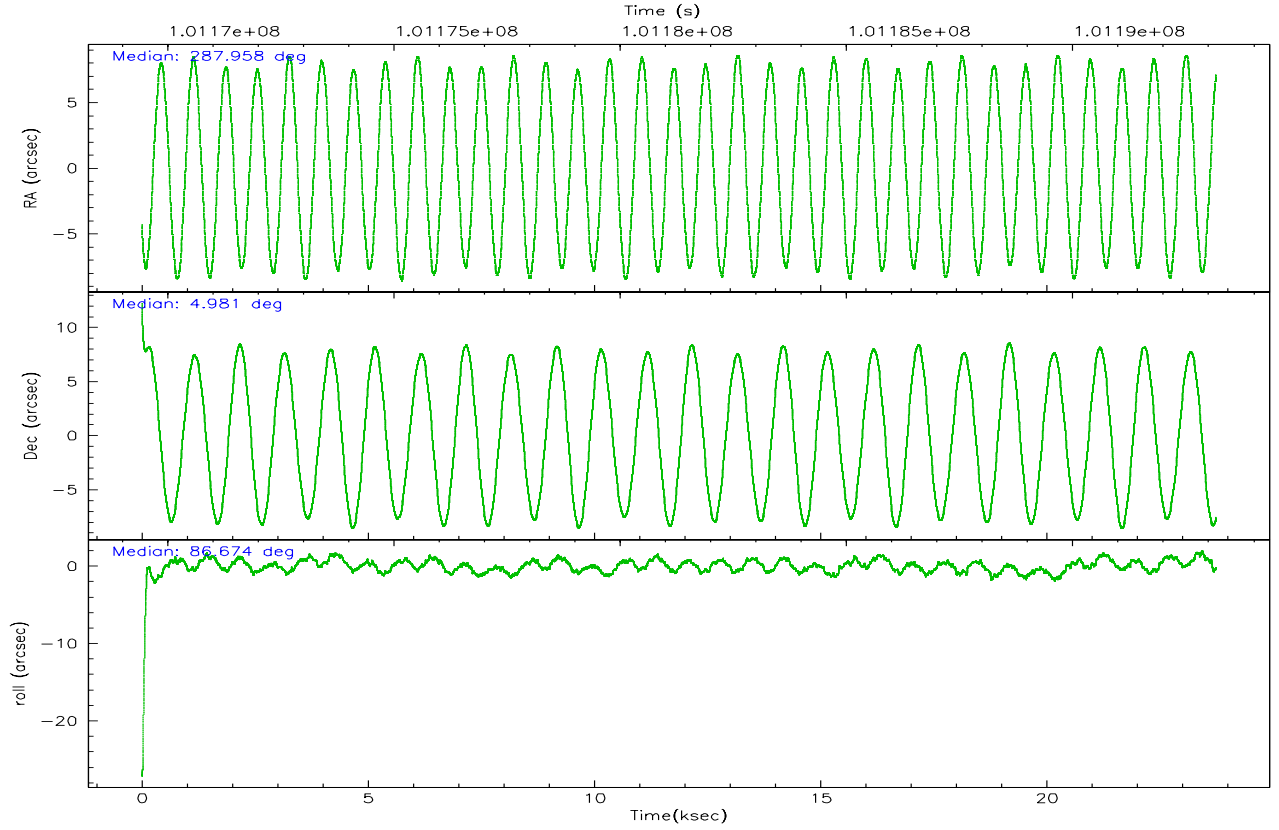
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	6507	15564	21232	9264	14954	6813
	4%	8%	14%	4%	8%	5%
grade 1 events	50	942	106	259	109	57
	0%	0%	0%	0%	0%	0%
grade 2 events	3448	26337	5393	22264	7463	2929
	2%	14%	3%	11%	4%	2%
grade 3 events	1510	2465	2338	6442	3558	1614
	1%	1%	1%	3%	2%	1%
grade 4 events	1436	2575	2380	6535	3372	1557
	1%	1%	1%	3%	2%	1%
grade 5 events	4436	8892	5185	12291	6512	5147
	3%	4%	3%	6%	3%	4%
grade 6 events	2560	43270	3659	46295	8554	2880
	1%	23%	2%	24%	5%	2%
grade 7 events	121156	86404	106873	87070	122143	102953
	85%	46%	72%	45%	73%	83%

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	287.970434	287.9578908275026	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	4.957044	4.981334026012659	Subarray start row	1	1
Pointing Roll	86.518309	86.67600253286749	Subarray row count	774	774
Window start time	95734864.184000	95734864.184000	Alternating exposures requested	N	N
Window stop time	101394064.184000	101394064.184000	Primary exposure time	0.000000	2.5
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Phase constraints	Y	Y			
Phase period	13.082000	13.082000			
Phase epoch	46595.700000	46595.700000			
Phase start	0.000000	0.000000			
Phase end	0.020000	0.020000			
Phase start error	0.050000	0.050000			
Phase end error	0.050000	0.050000			
Observation start time	101169551.184000	101168433.2006			
Observation start date	2001-03-16T22:38:07	2001-03-16T22:20:33			
Observation end time	101193170.184000	101194093.05159			
Observation end date	2001-03-17T05:11:46	2001-03-17T05:28:13			

2.3 Aspect



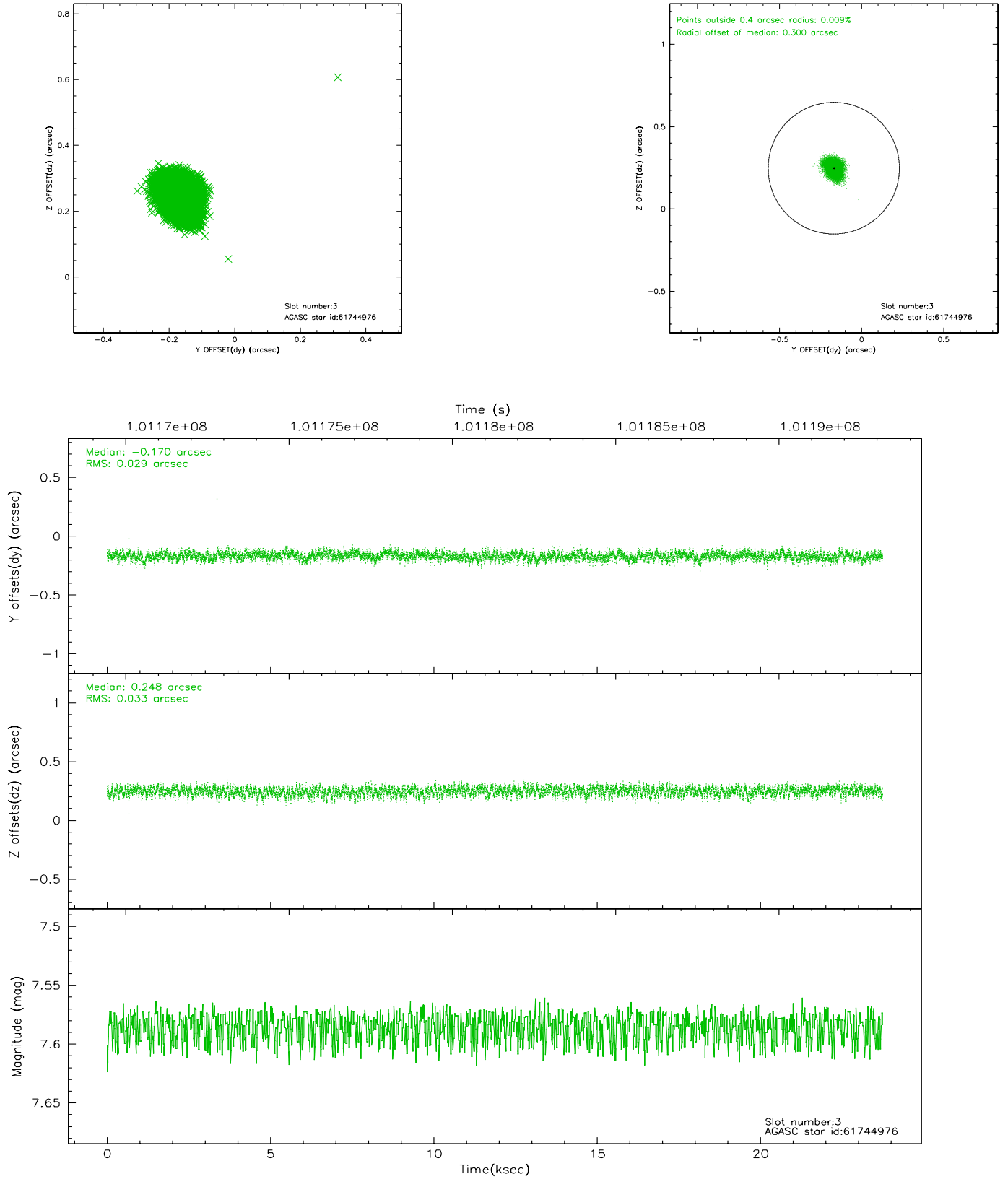


Slot Statistics

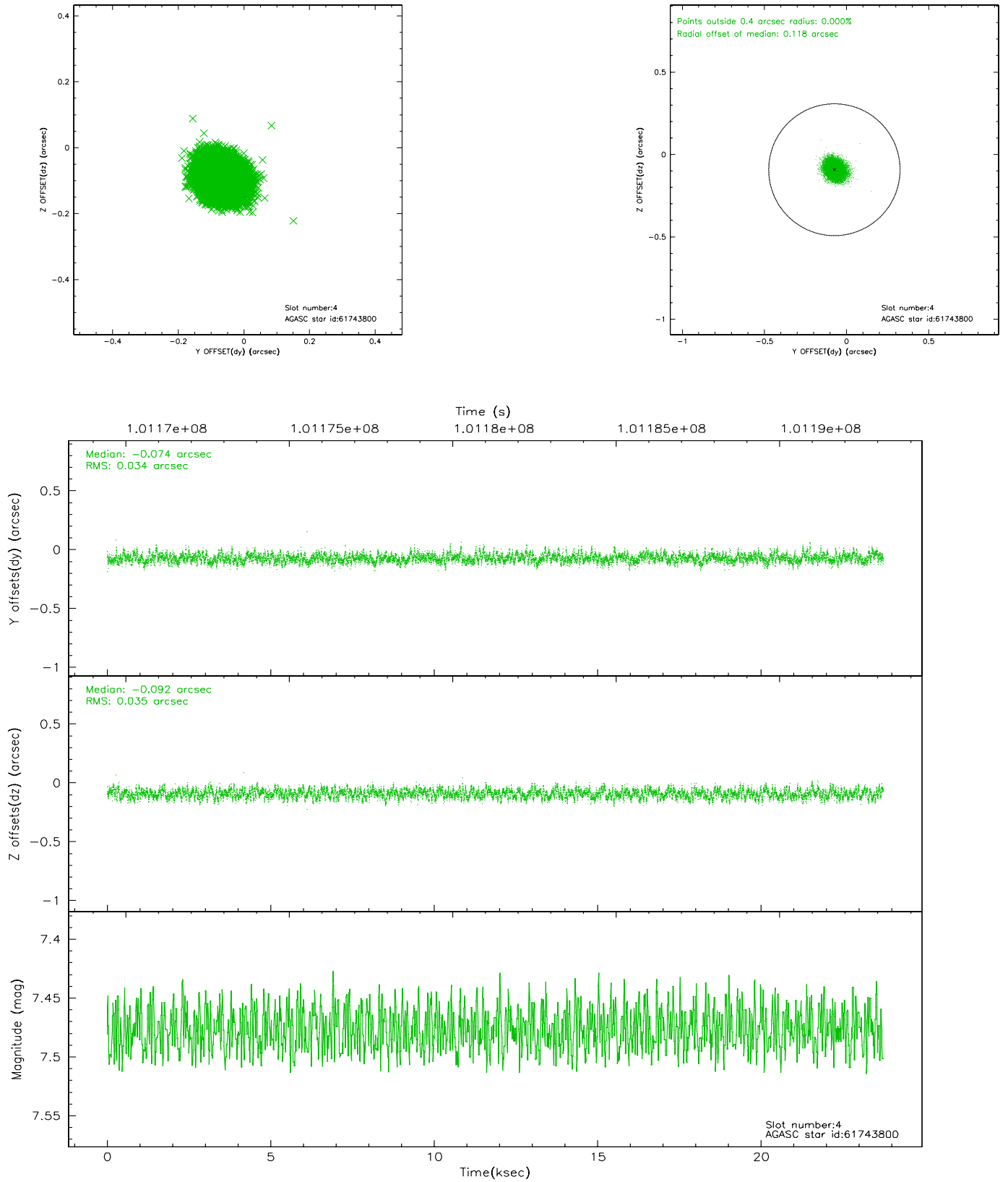
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	5789	-0.028	-0.032	0.014	0.020	0.000000	0.000000	-755.25	-1790.00
1	FID	ACIS-S-4	7.19	5789	-0.042	0.021	0.007	0.013	0.000000	0.000000	2157.94	118.39
2	FID	ACIS-S-5	7.23	5790	0.038	0.018	0.013	0.019	0.000000	0.000000	-1807.86	112.21
3	GUIDE	61744976	7.58	11579	-0.170	0.248	0.047	0.075	288.430364	5.306675	1356.62	-1569.17
4	GUIDE	61743800	7.48	11576	-0.074	-0.092	0.052	0.082	287.776811	5.274666	1098.96	761.79
5	GUIDE	61738240	7.41	11578	0.160	0.028	0.050	0.080	287.996556	4.354861	-2158.25	-225.52
6	GUIDE	61741304	7.64	11577	-0.130	-0.147	0.048	0.075	287.957418	5.377327	1506.74	138.02
7	GUIDE	61745016	8.64	11576	0.212	-0.030	0.060	0.099	288.113628	4.368816	-2082.47	-642.10

2.4 Star Slots

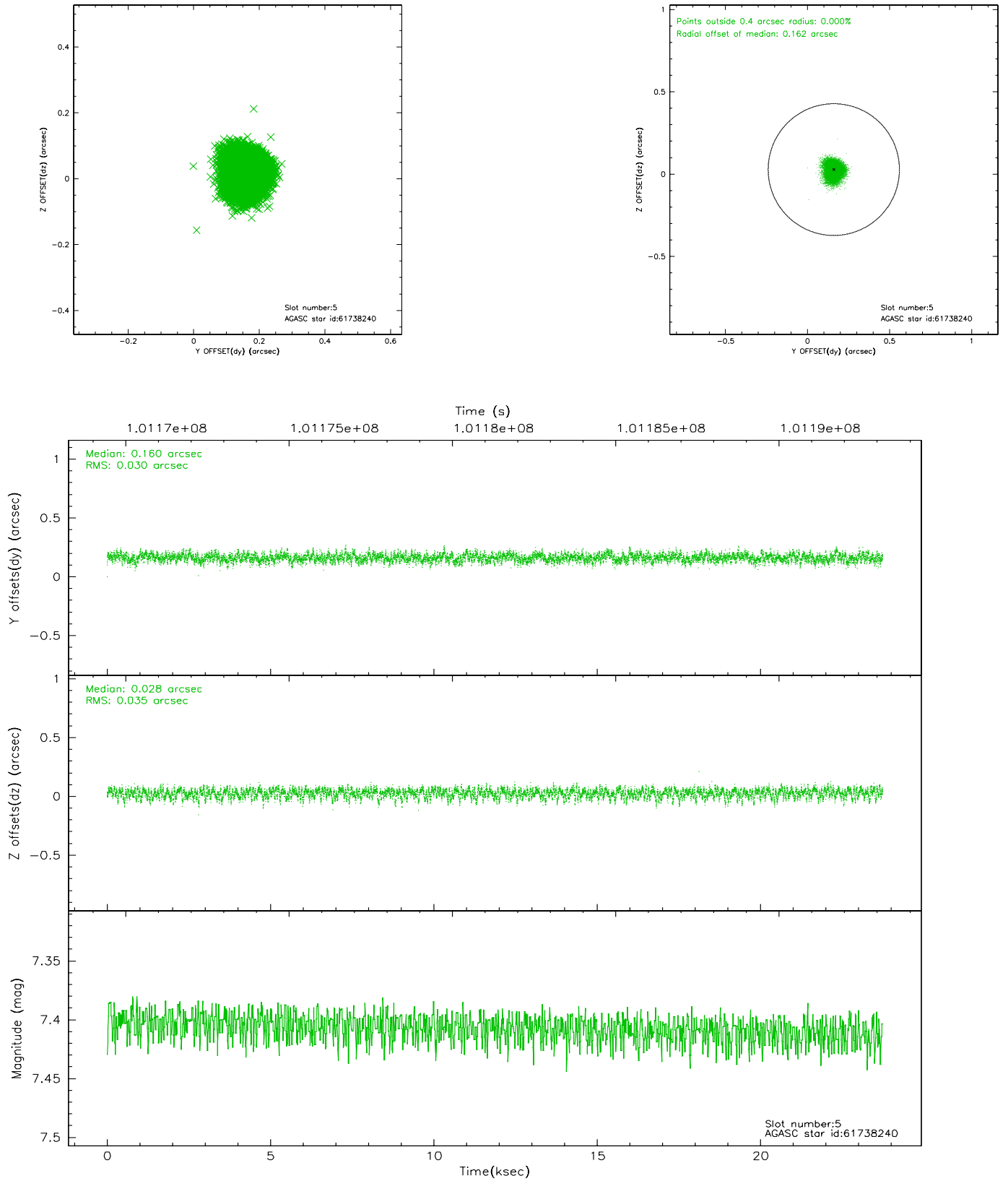
2.4.1 Slot 3



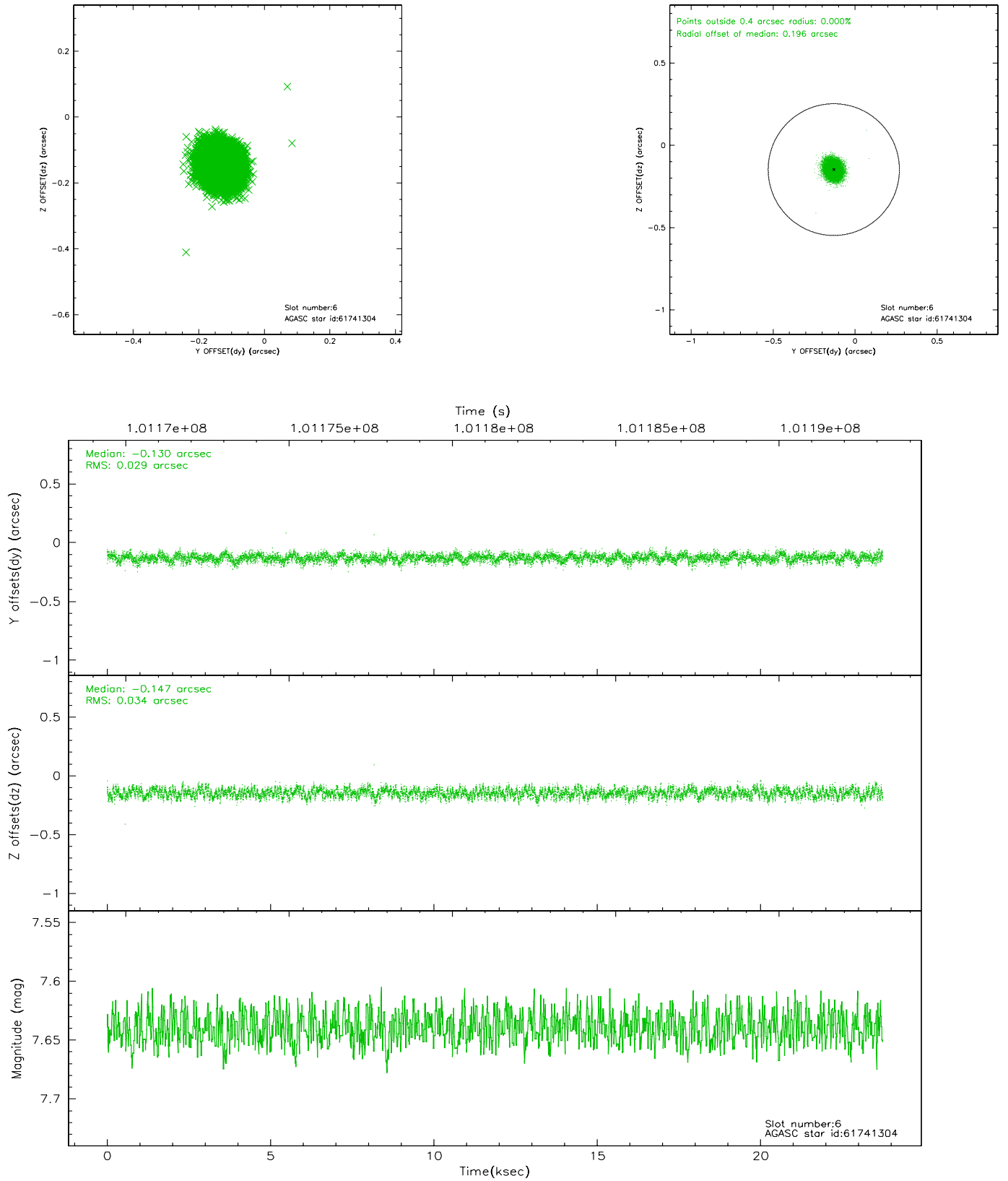
2.4.2 Slot 4



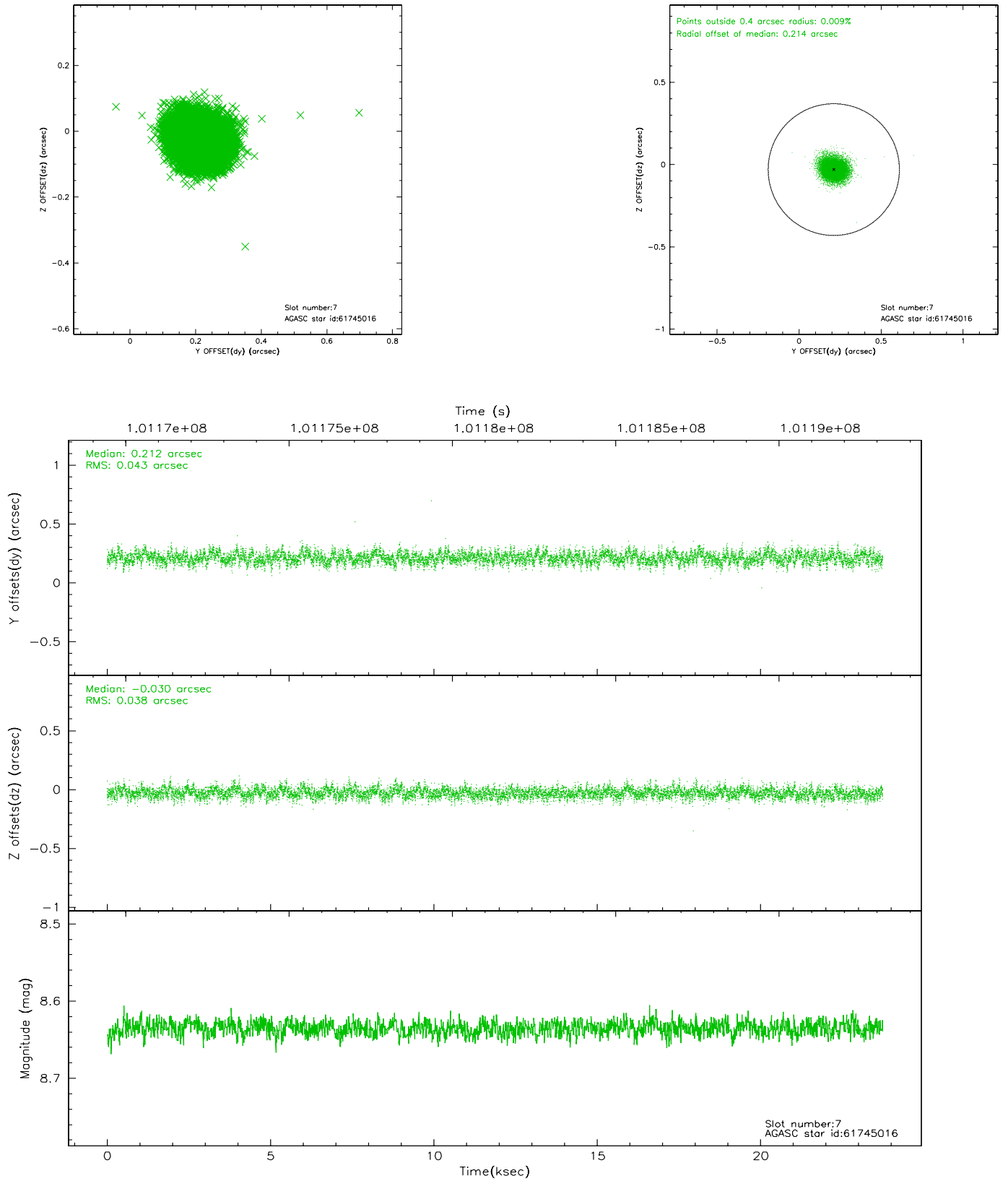
2.4.3 Slot 5



2.4.4 Slot 6

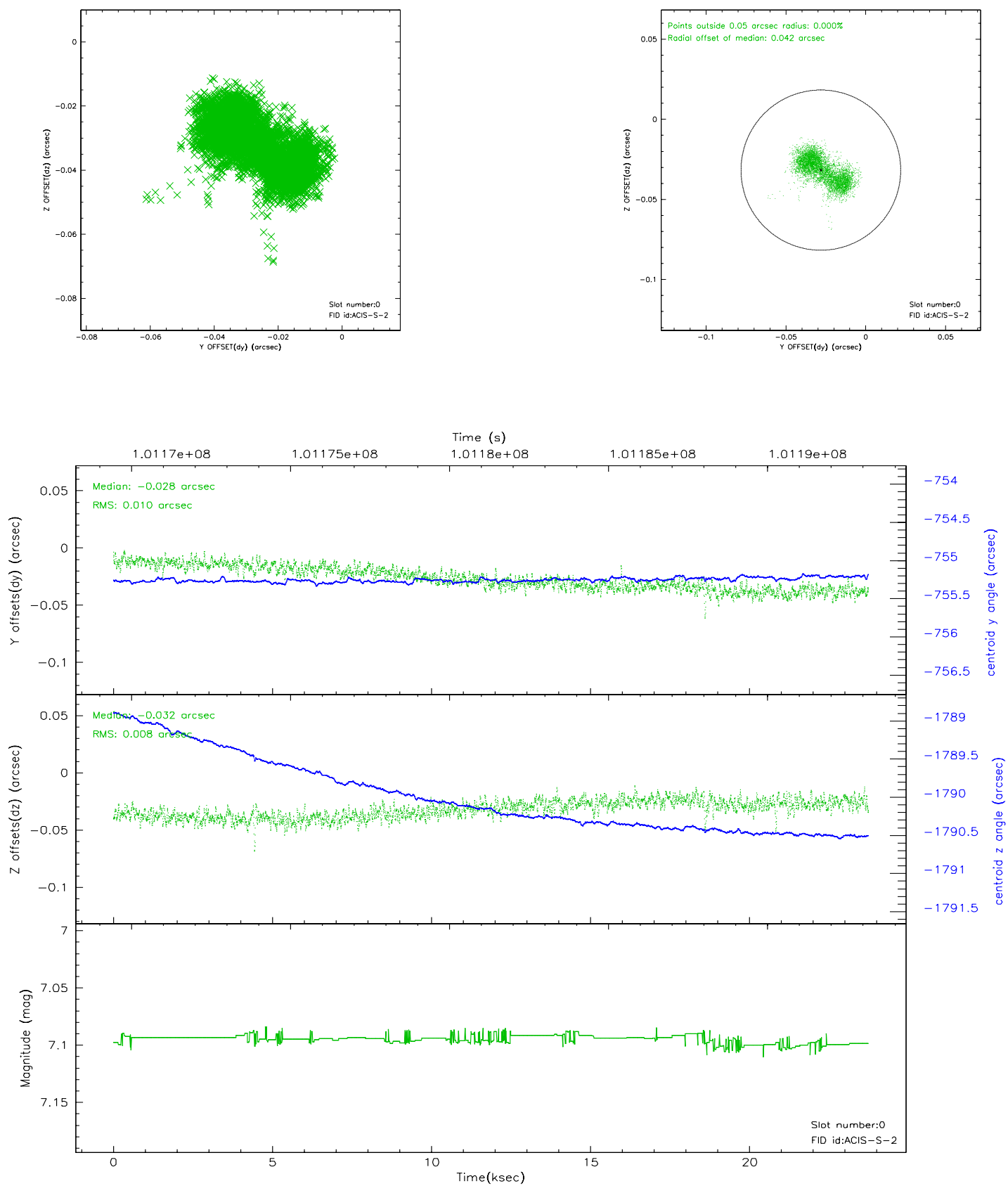


2.4.5 Slot 7

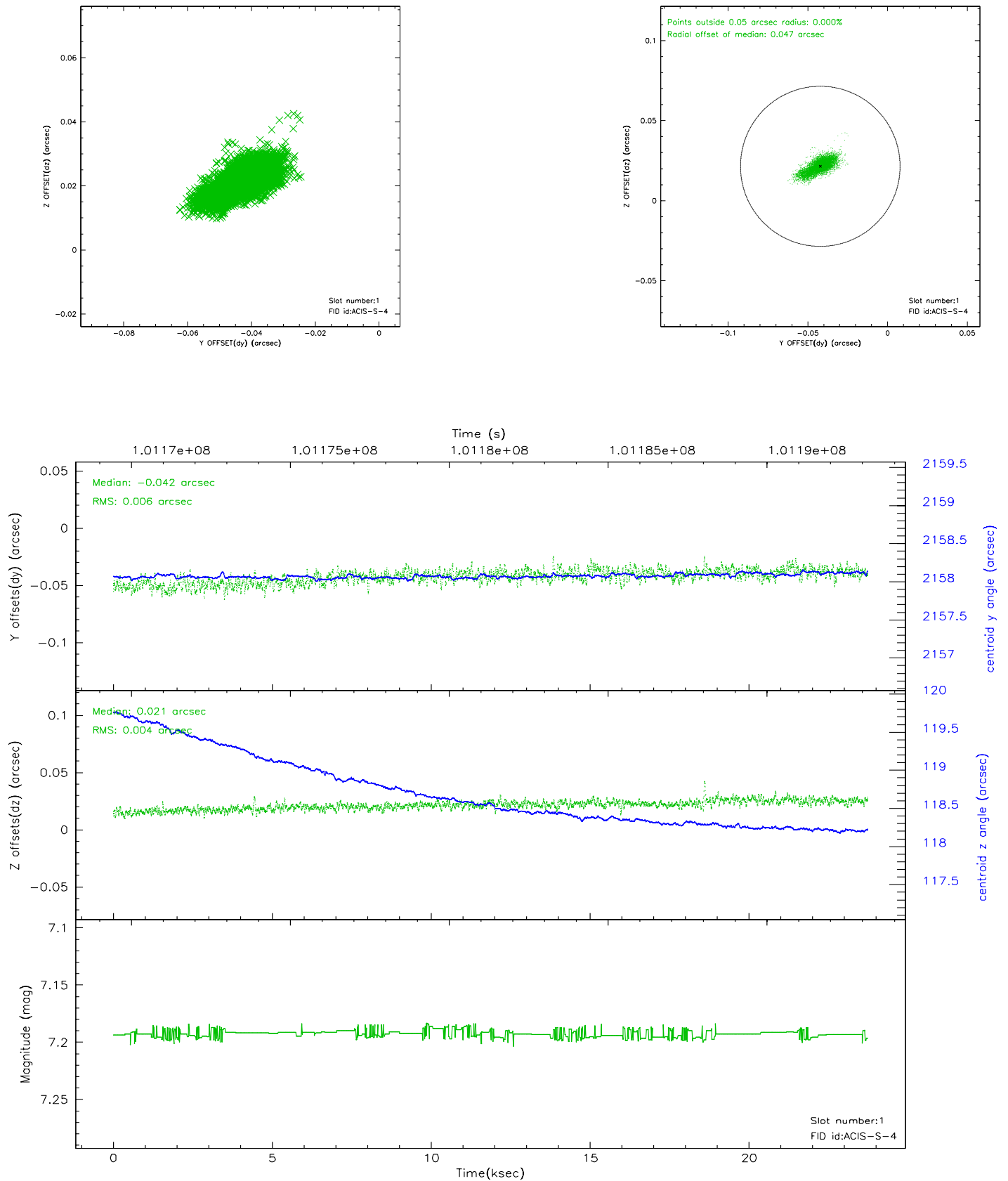


2.5 FID Slots

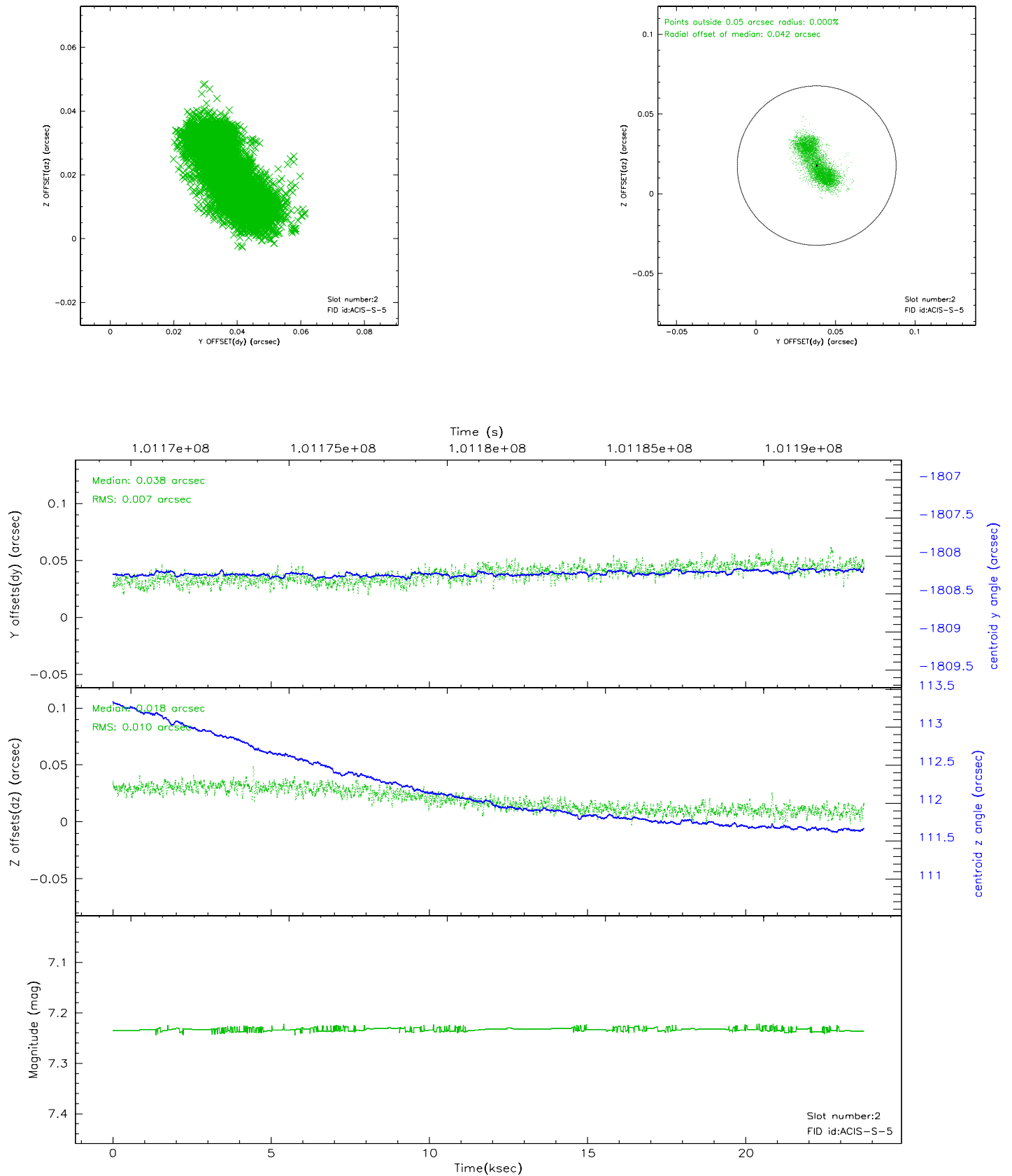
2.5.1 Slot 0



2.5.2 Slot 1

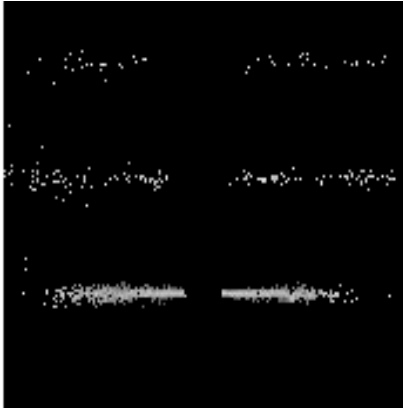


2.5.3 Slot 2

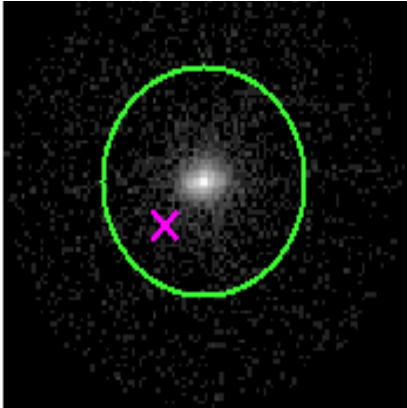


3 Gratings

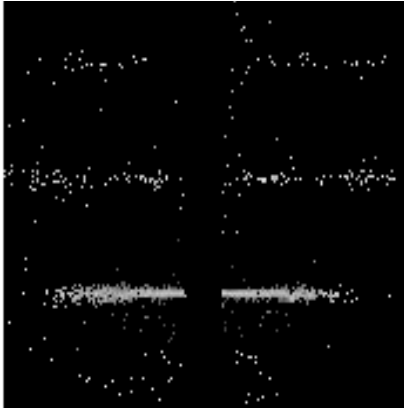
3.1 HEG Arm



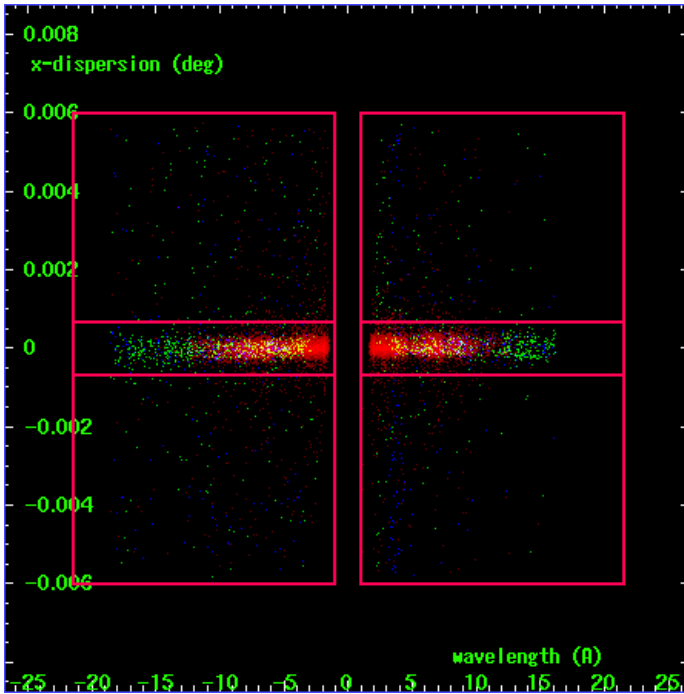
HEG Order Sort 123



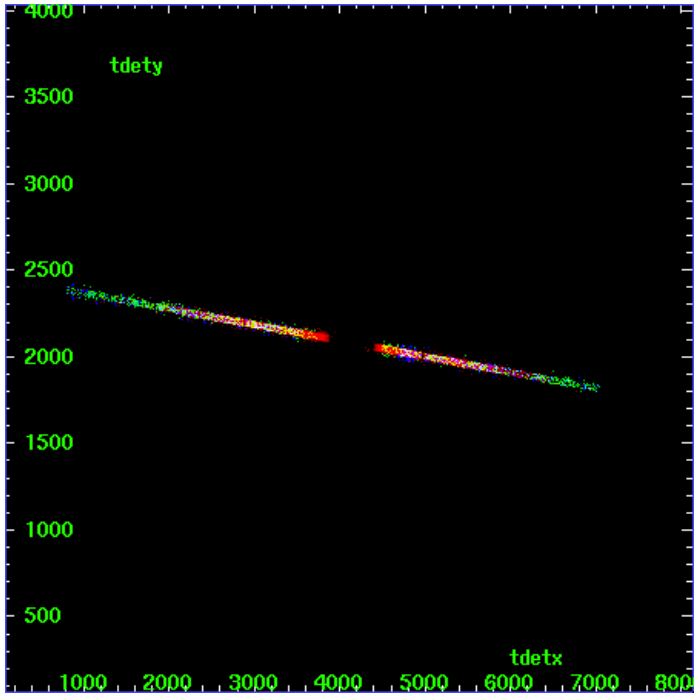
HEG Zero Order



HEG Order Sort ALL

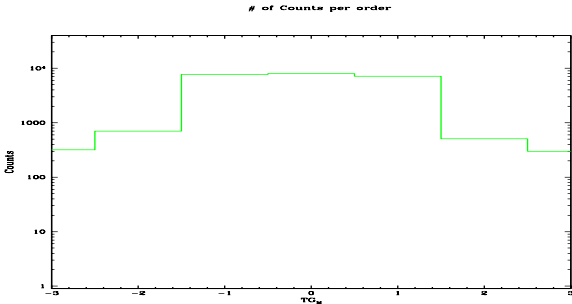


Spot Image HEG

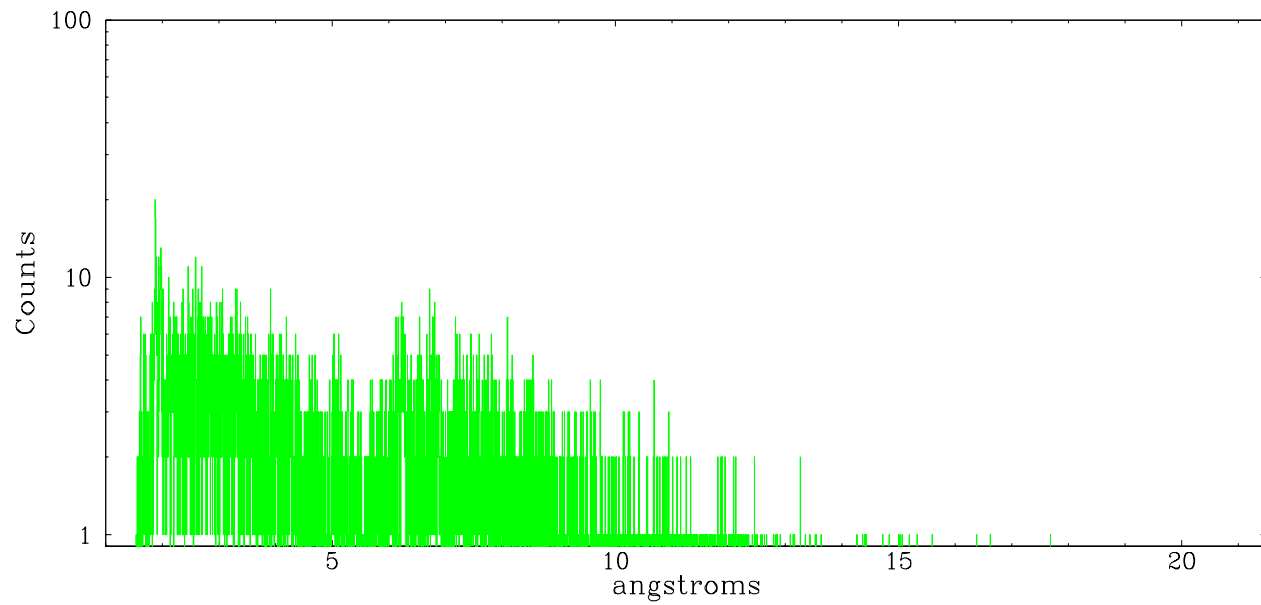


Full Detector HEG

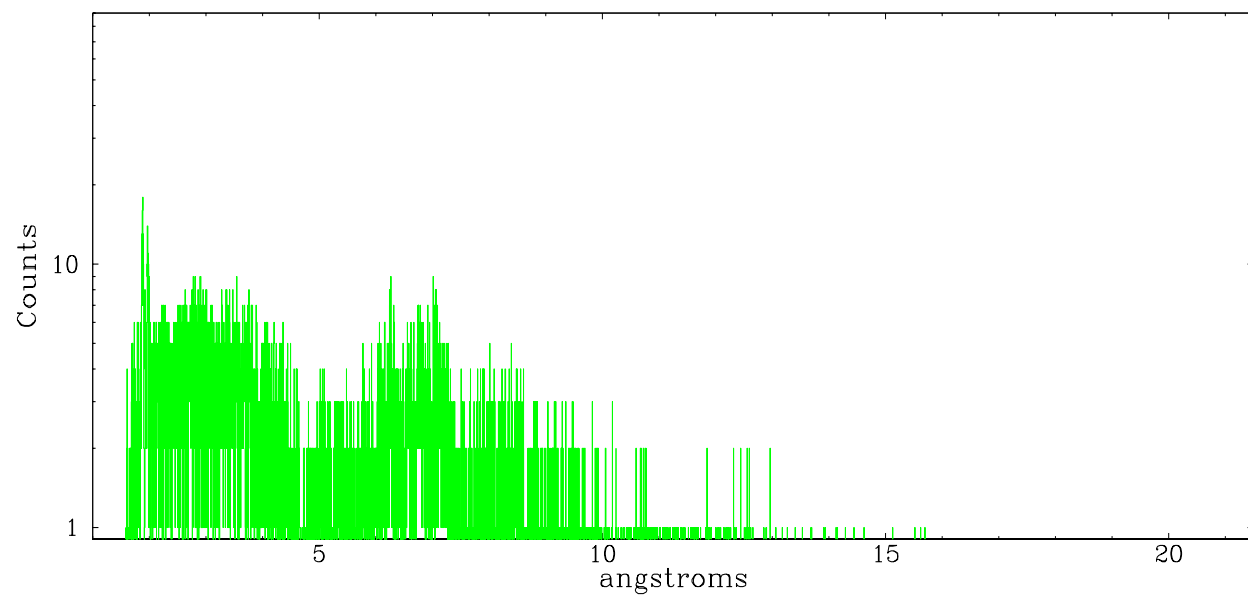
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	319	700	7719	7947	7160	508	298



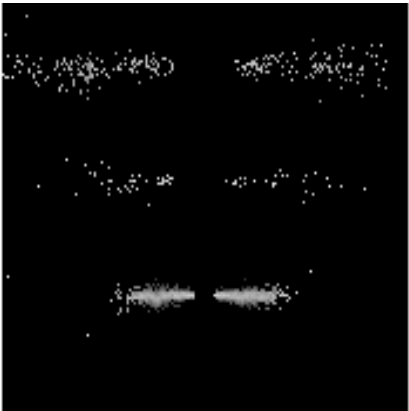
heg order -1



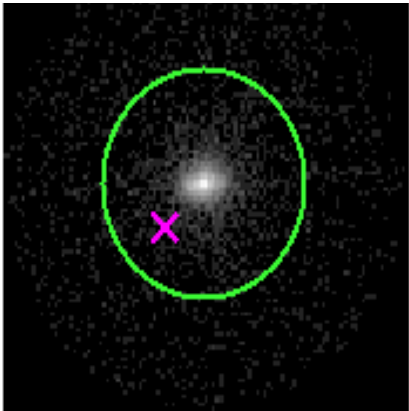
heg order +1



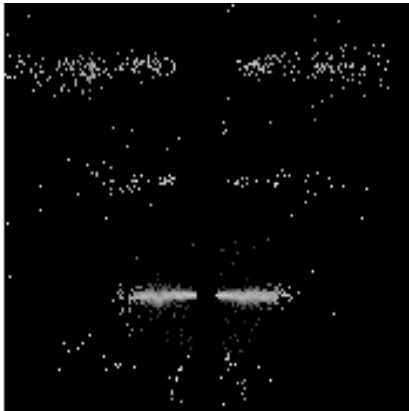
3.2 MEG Arm



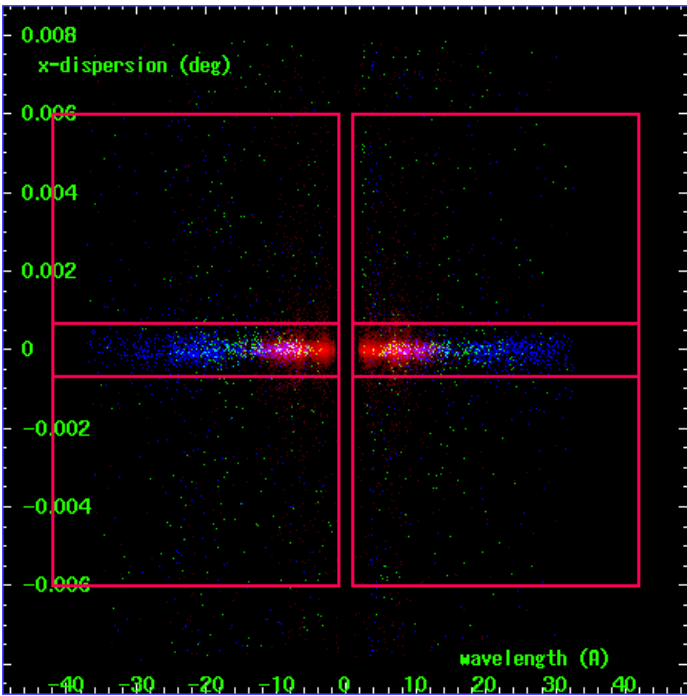
MEG Order Sort 123



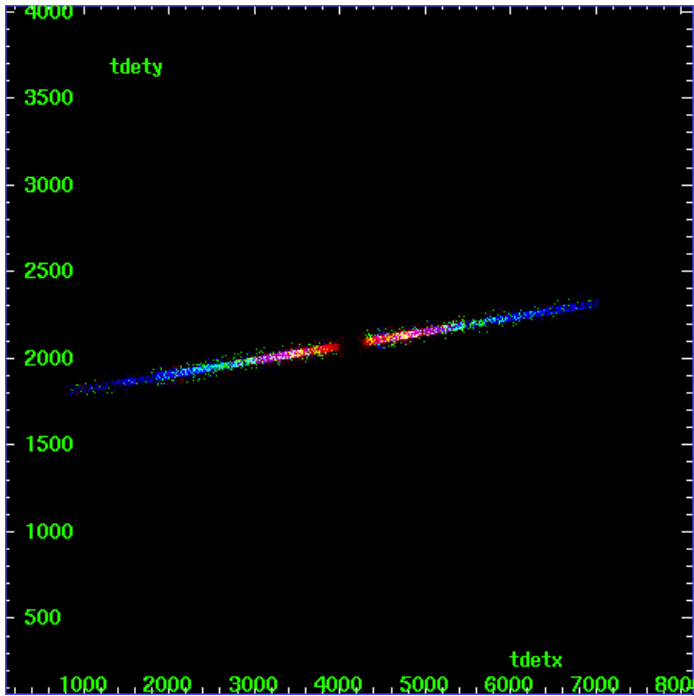
MEG Zero Order



MEG Order Sort ALL

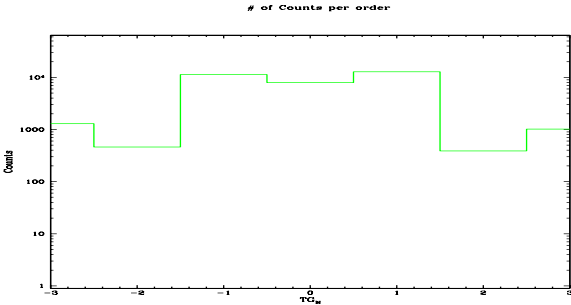


Spot Image MEG

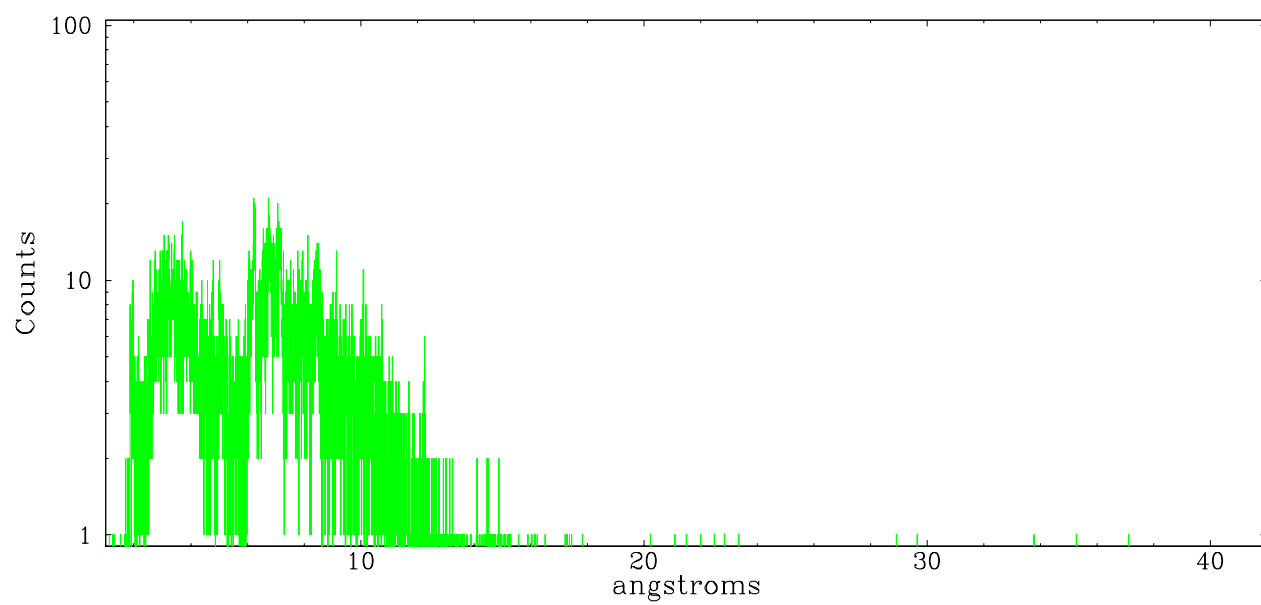


Full Detector MEG

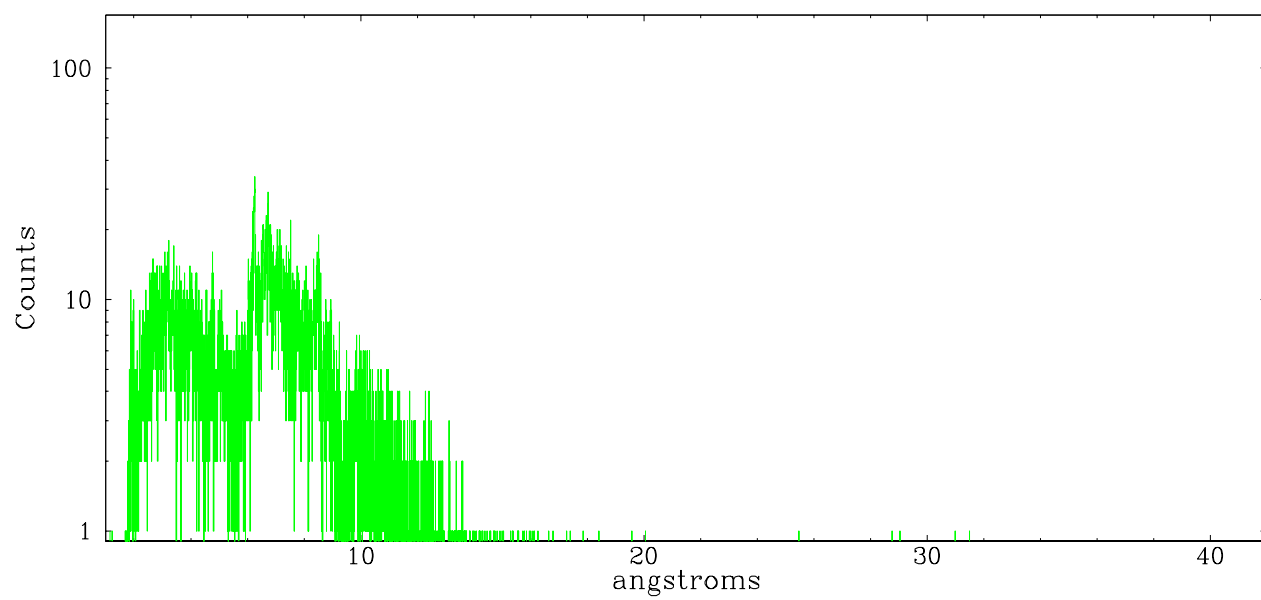
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1291	461	11361	7947	12841	387	1022



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.7

A.2 Comments

time window request: Jan 13 2001 1:00AM Mar 19 2001 1:00PM
actual: 2001-03-16T22:20:33 2001-03-17T05:28:13
(OK)