

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2538 - L2 Version 002
Chandra X-Ray Center

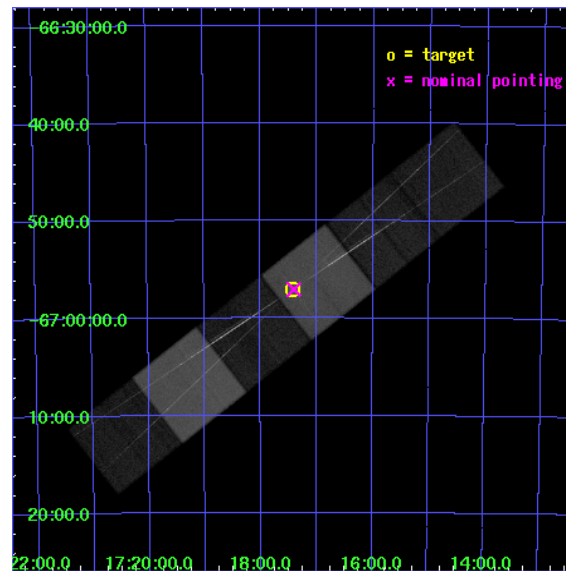
L2 Processing Date : Oct 4 2006

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1 Front

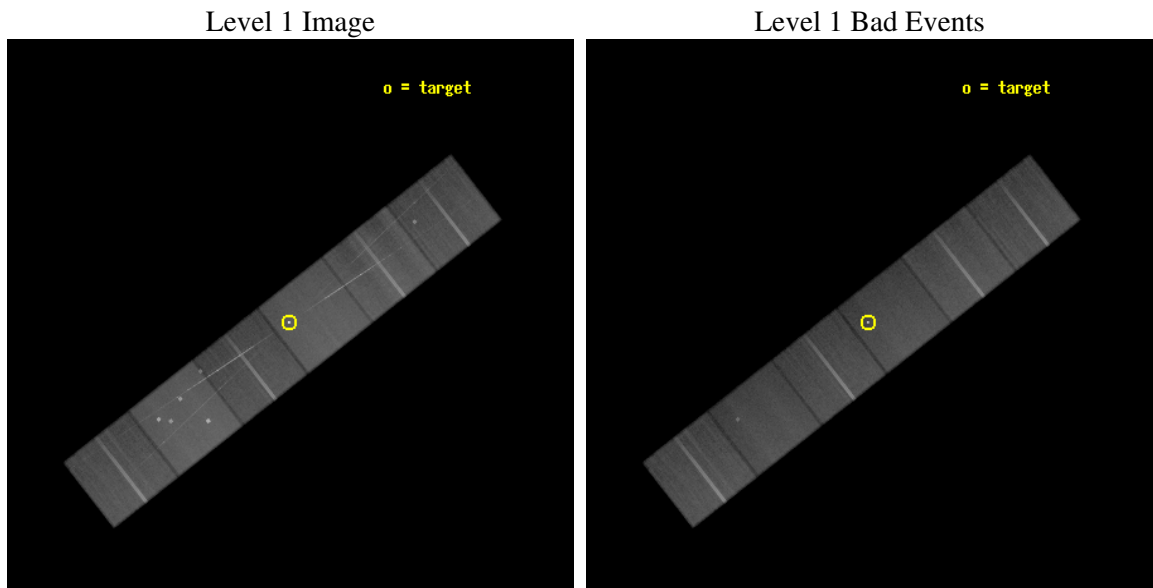
seq_num	200146
obs_id	2538
title	A HIGH-RESOLUTION STUDY OF THE ACTIVE BINARY SYSTEM V824 ARA
observer	DR. STEPHEN DRAKE
object	V824 ARA
dtcycle	0
cycle	P
ra_targ	259.35625
dec_targ	-66.950833
ra_nom	259.35066904843
dec_nom	-66.951250723081
roll_nom	321.85022048602
revision	3
ontime	95427.117703855
livetime	94218.762080177
ontime4	95430.358644336
ontime5	95433.599644482
ontime6	95433.599644482
ontime7	95427.117703855
ontime8	95430.358664244
ontime9	95433.599644482
l2events	1038125



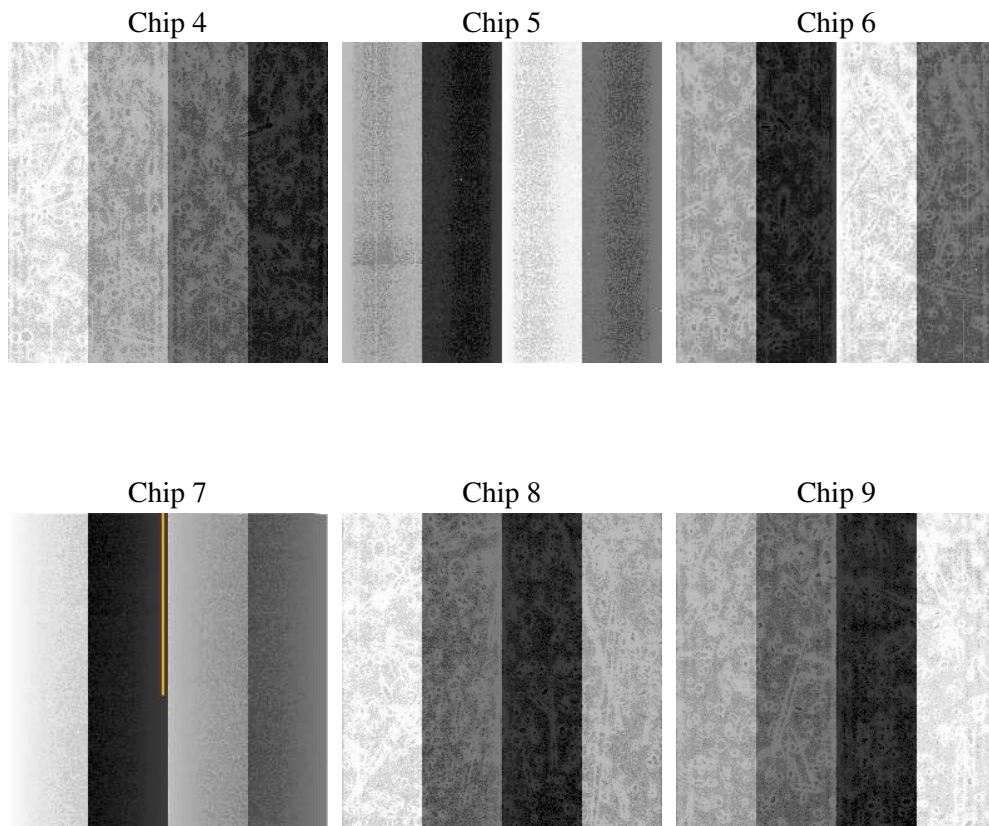
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-04T14:17:08
revision	3

sched_exp_time	95559.073000
ontime	95434.657427549
ontime4	95437.898368031
ontime5	95441.139388084
ontime6	95441.139368176
ontime7	95434.657427549
ontime8	95437.898387939
ontime9	95441.139368176
l1events	4584696

2.1.4 Events

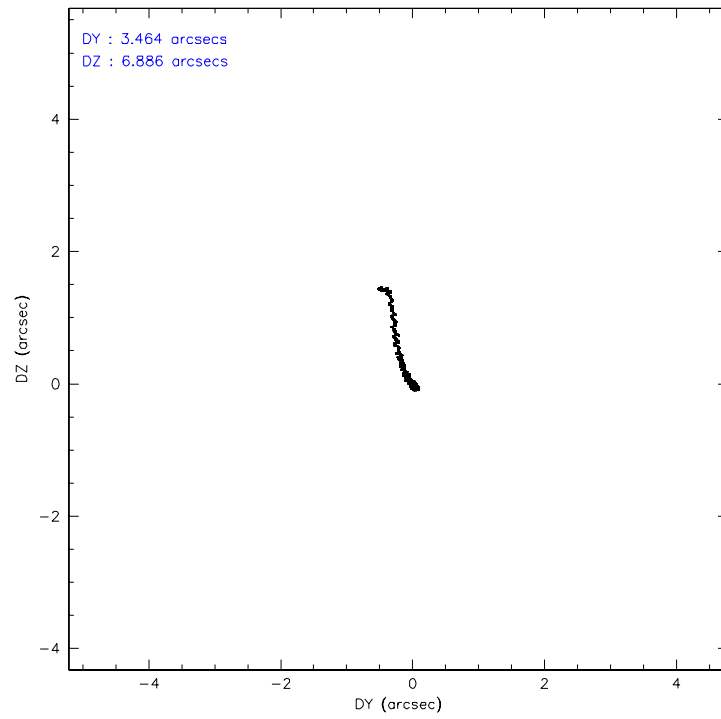
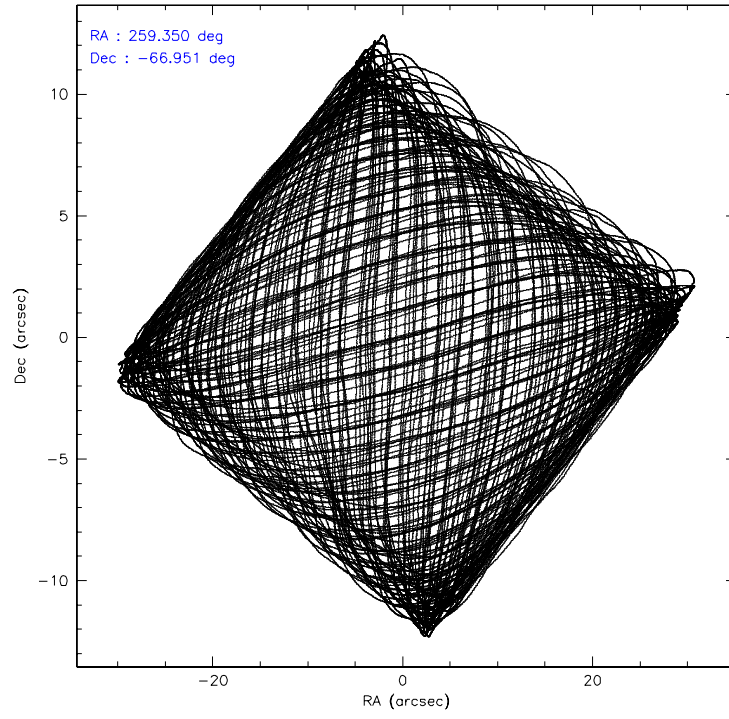
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	693828	927712	655131	866567	813638	627820
rejected events	613439	502145	554620	515863	628410	544662
rejected %	88%	54%	84%	59%	77%	86%

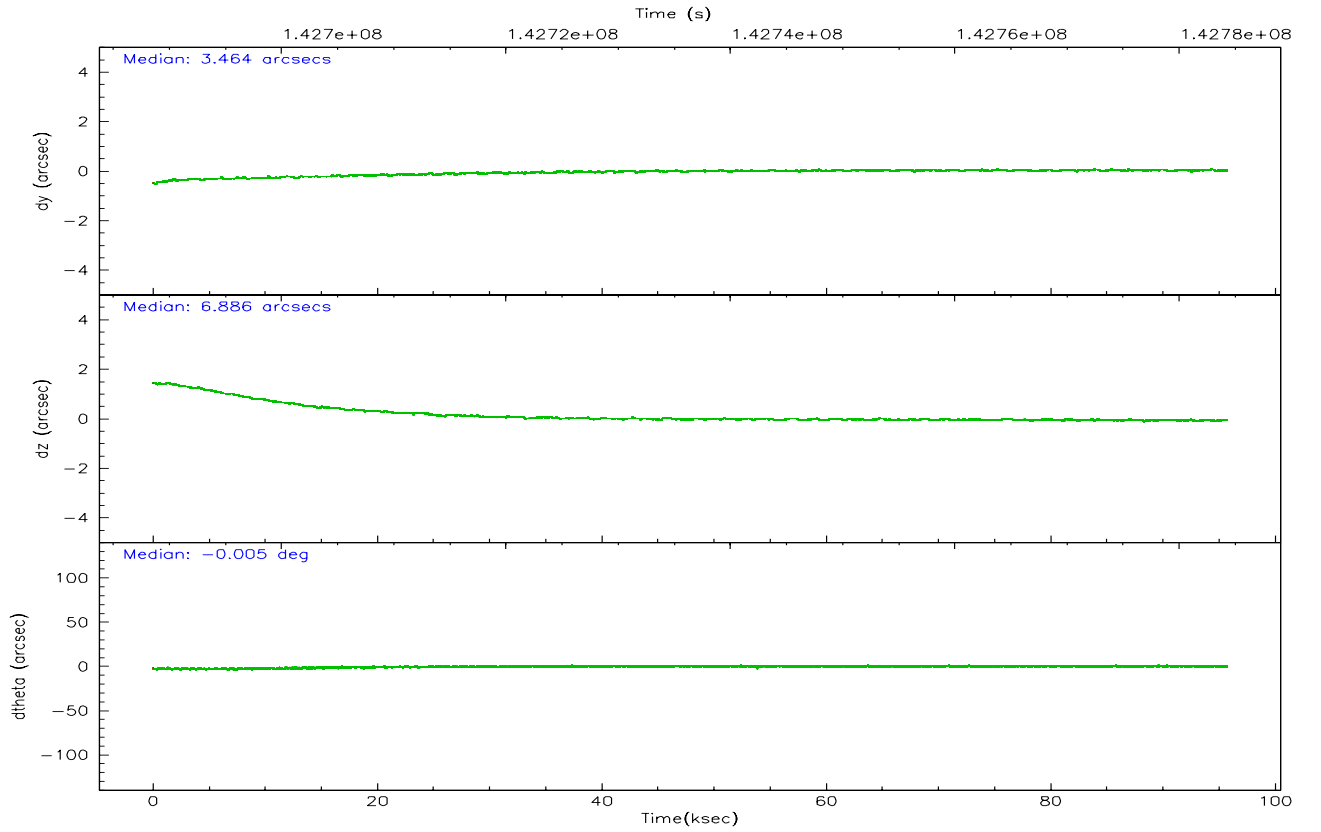
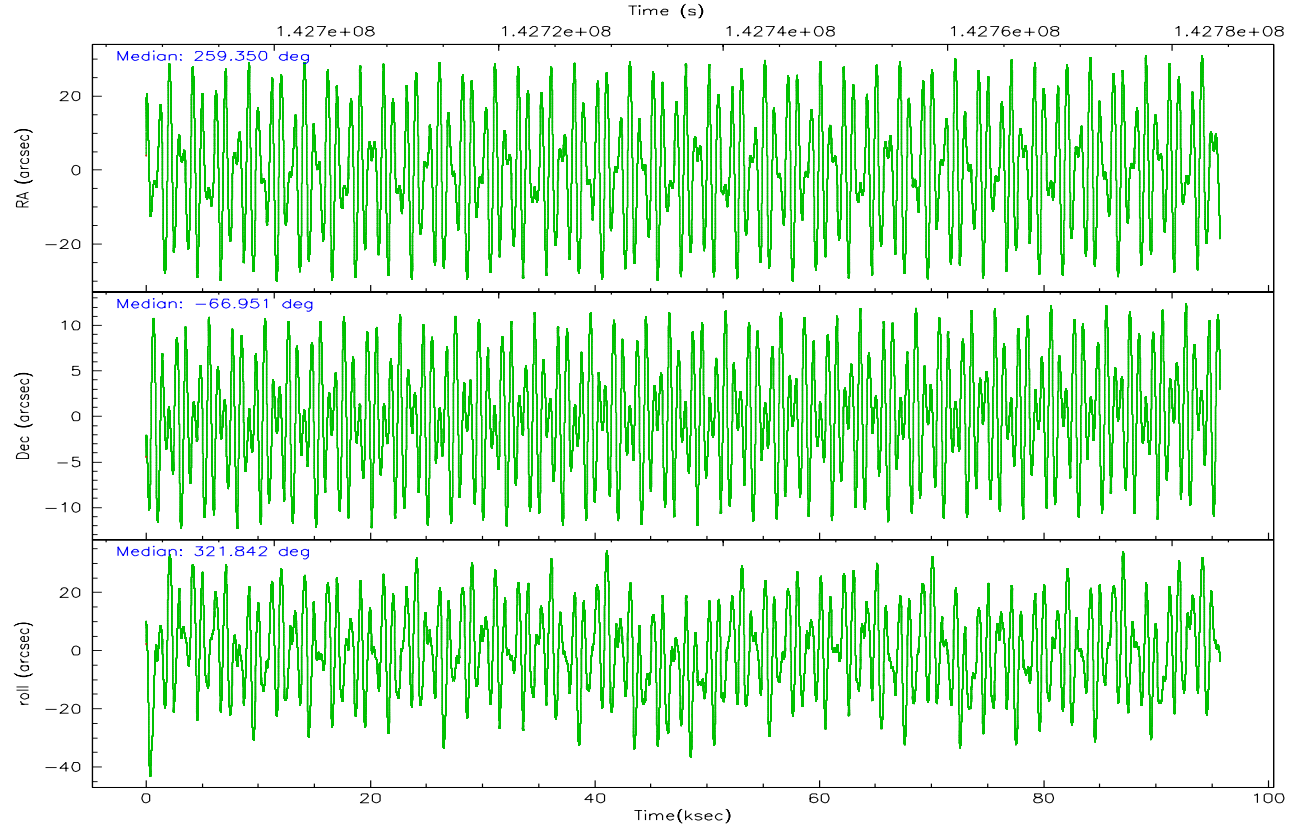
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	33544	50838	51714	25883	69526	37309
	4%	5%	7%	2%	8%	5%
grade 1 events	335	739	392	1024	506	295
	0%	0%	0%	0%	0%	0%
grade 2 events	19312	129584	17877	86302	38032	16102
	2%	13%	2%	9%	4%	2%
grade 3 events	7001	10334	7937	20189	18126	7456
	1%	1%	1%	2%	2%	1%
grade 4 events	6896	9508	7811	19774	16312	7123
	0%	1%	1%	2%	2%	1%
grade 5 events	23289	43628	27437	58051	34944	27628
	3%	4%	4%	6%	4%	4%
grade 6 events	13644	225338	15181	198593	43246	15174
	1%	24%	2%	22%	5%	2%
grade 7 events	589807	457743	526782	456751	592946	516733
	85%	49%	80%	52%	72%	82%

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	259.281679	259.3506690484255	Subarray requested	NONE	NONE
Pointing Dec	-66.947713	-66.95125072308066	Alternating exposures requested	N	N
Pointing Roll	321.630116	321.8502204860218	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	142688715.184000	142687662.95506			
Observation start date	2002-07-10T11:44:11	2002-07-10T11:27:42			
Observation end time	142784274.184000	142784588.49654			
Observation end date	2002-07-11T14:16:50	2002-07-11T14:23:08			
Read mode	TIMED	TIMED			

2.3 Aspect



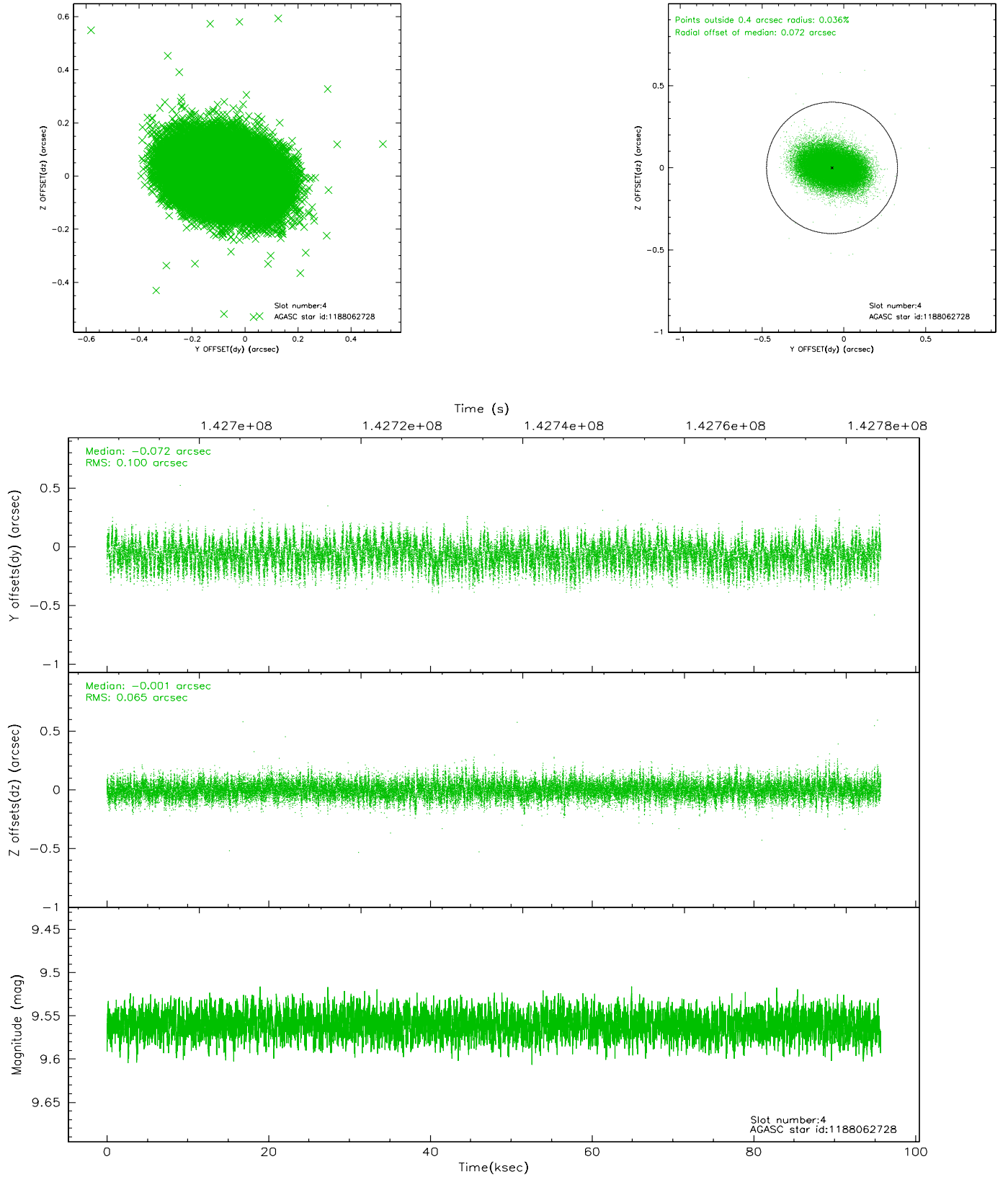


Slot Statistics

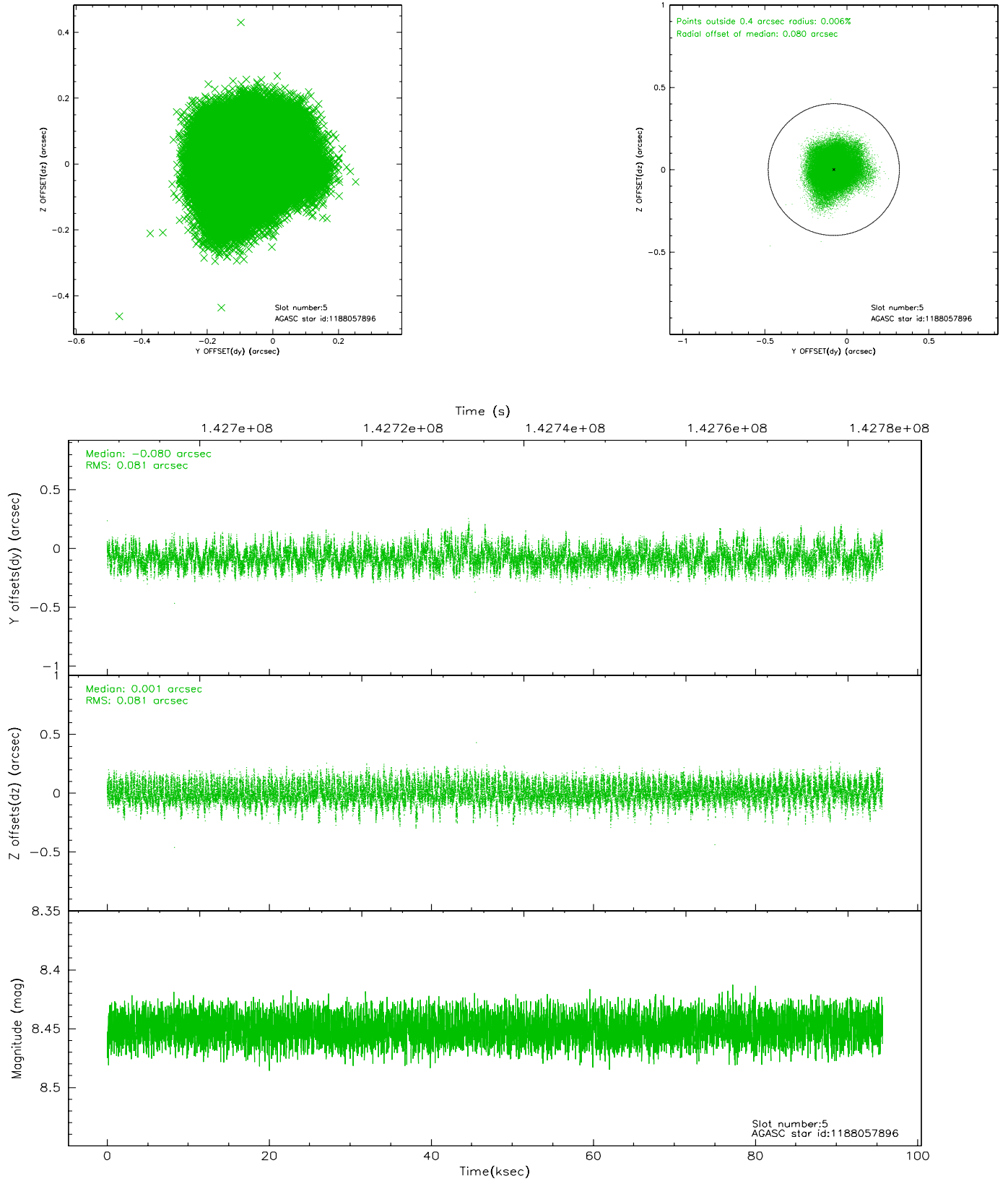
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	23347	-0.036	-0.032	0.009	0.030	0.000000	0.000000	-755.86	-1790.35
1	FID	ACIS-S-4	7.20	23344	-0.007	0.025	0.007	0.016	0.000000	0.000000	2157.45	118.30
2	FID	ACIS-S-5	7.24	23346	0.010	0.015	0.011	0.035	0.000000	0.000000	-1808.79	111.81
3	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	1188062728	9.56	46660	-0.072	-0.001	0.128	0.207	259.470993	-66.275963	-1285.29	2065.68
5	GUIDE	1188057896	8.45	46687	-0.080	0.001	0.125	0.193	257.230472	-67.074294	-1941.40	-2179.98
6	GUIDE	1188058776	8.31	46692	0.070	0.006	0.093	0.172	258.393027	-67.074209	-687.63	-1137.73
7	GUIDE	1188051944	10.60	46345	0.085	-0.011	0.293	0.480	260.921434	-67.192158	2359.78	706.98

2.4 Star Slots

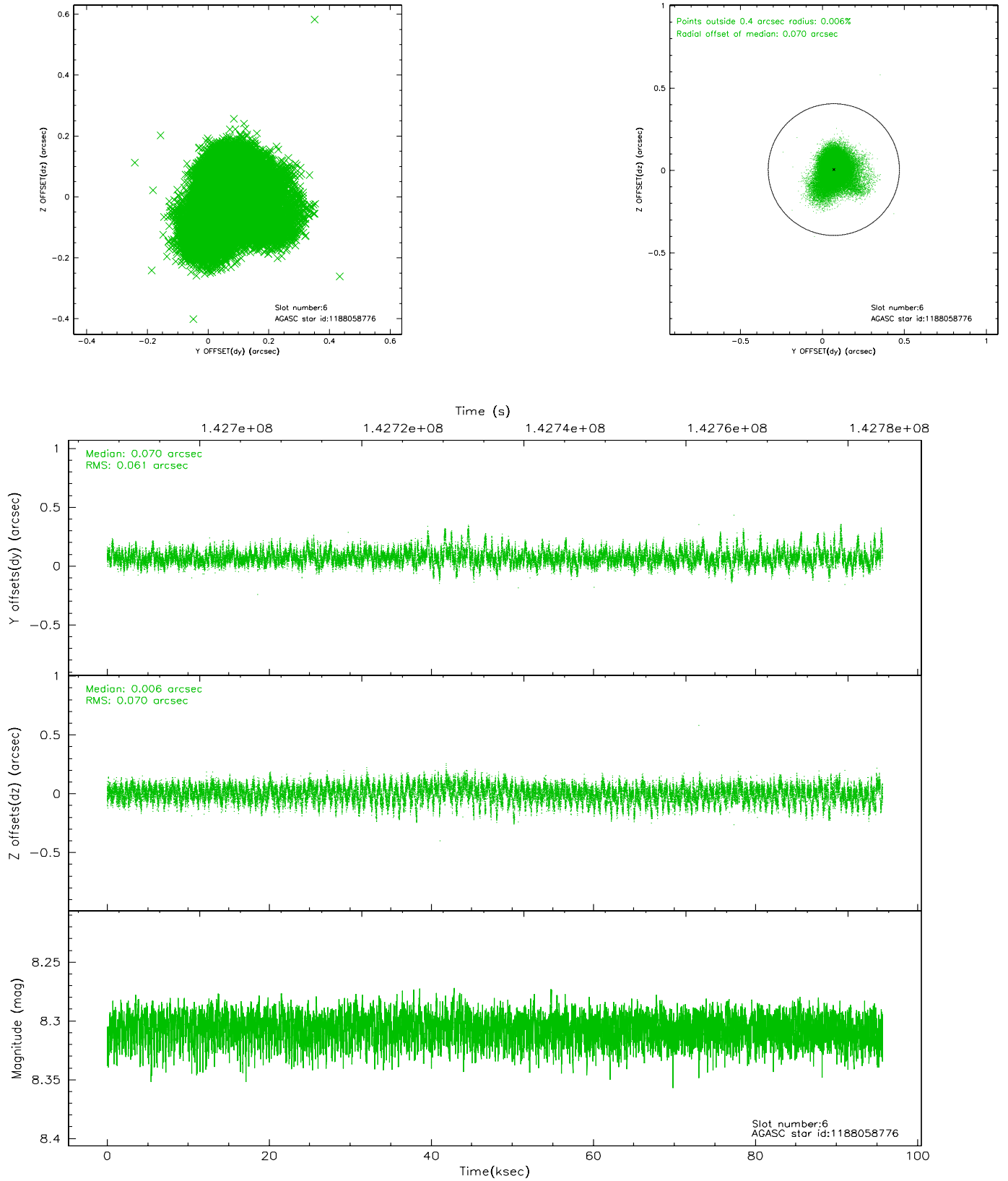
2.4.1 Slot 4



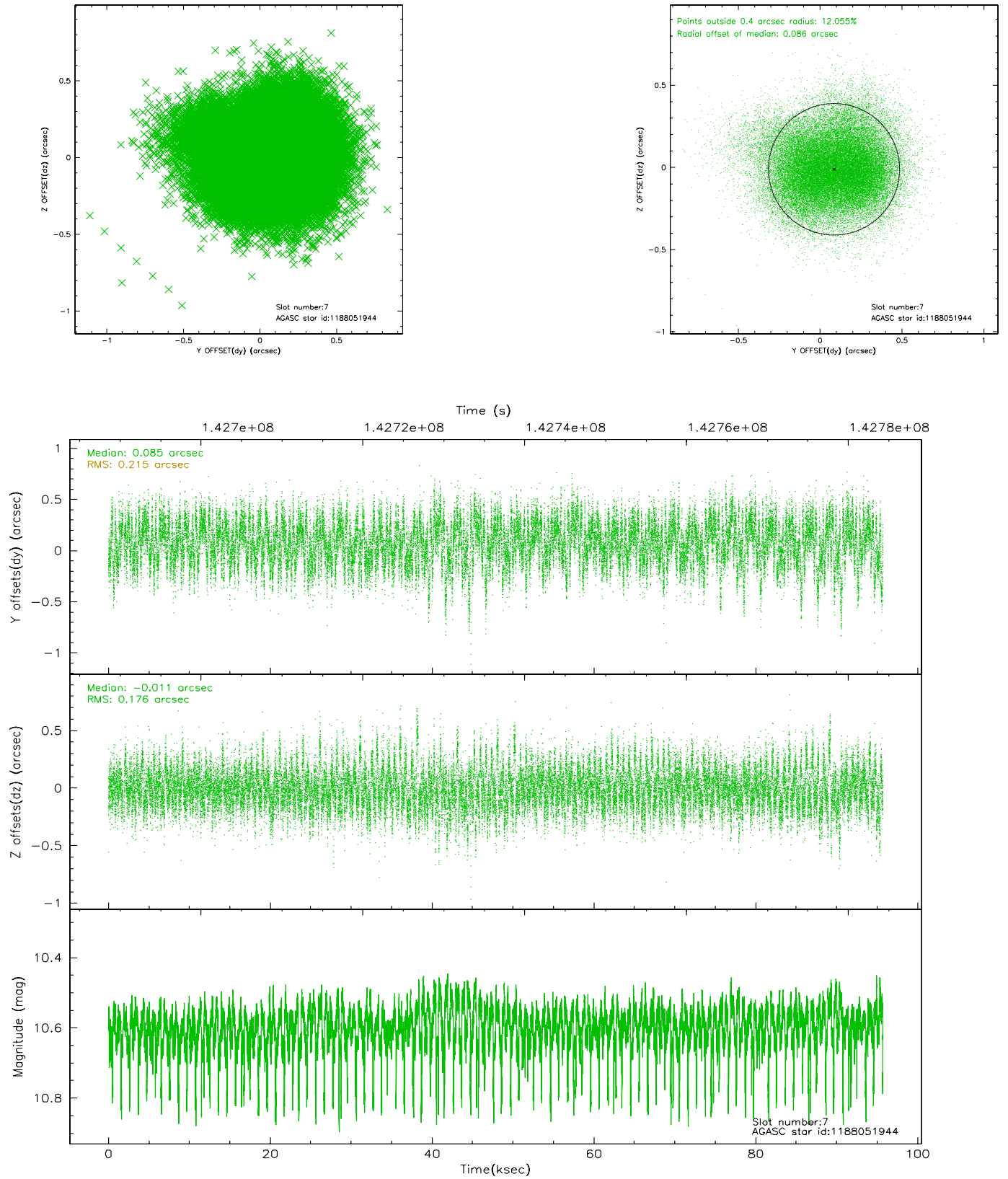
2.4.2 Slot 5



2.4.3 Slot 6

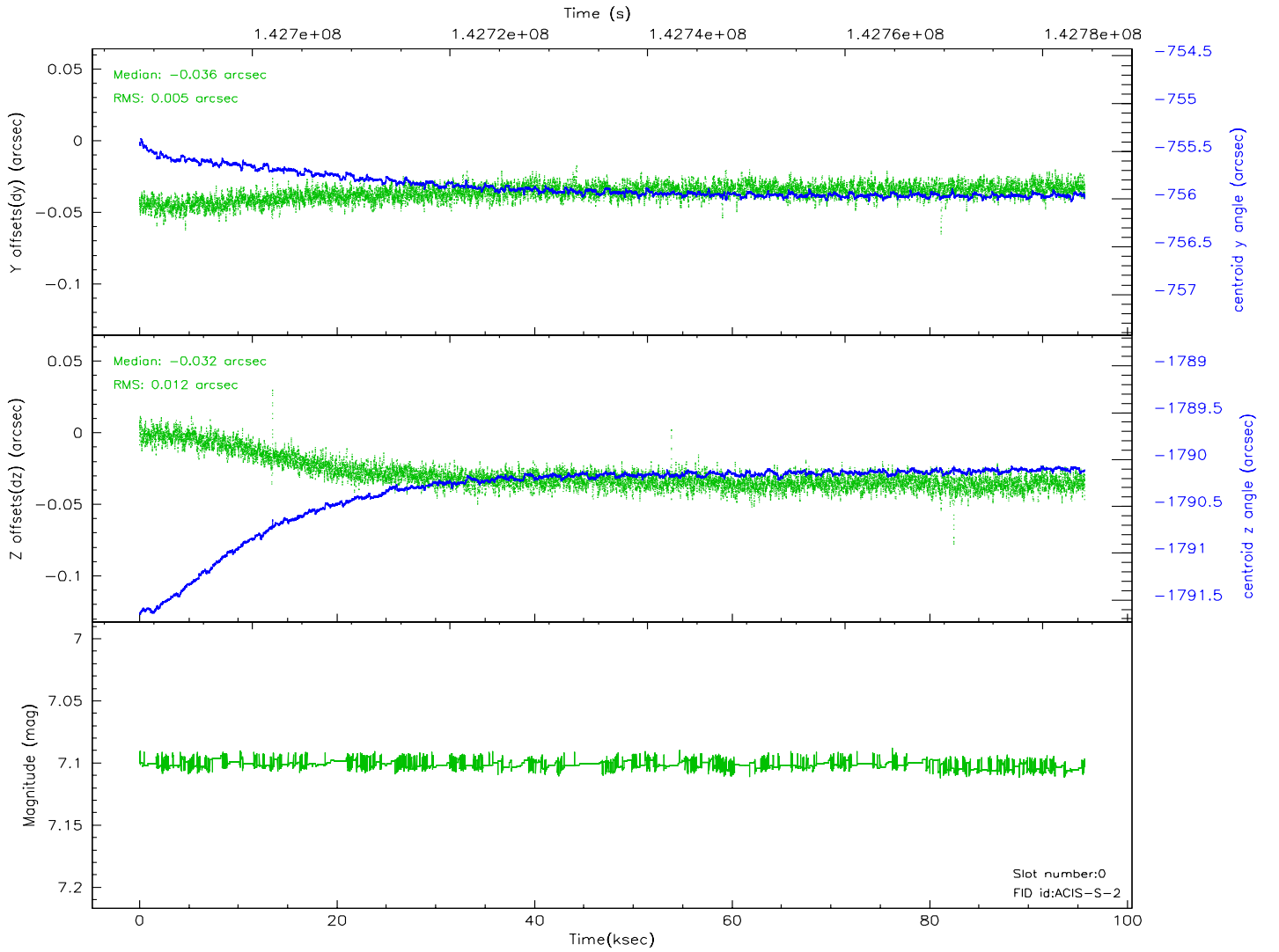
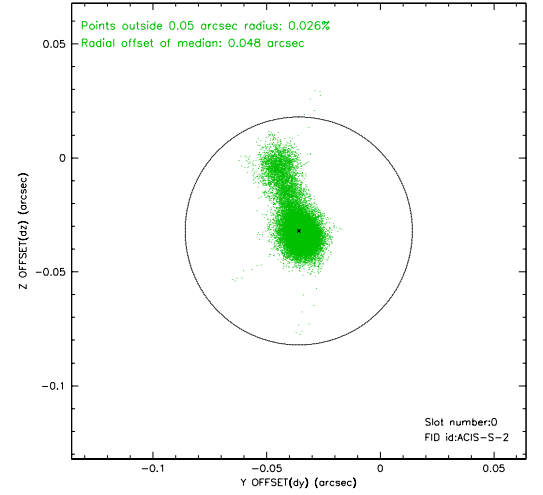
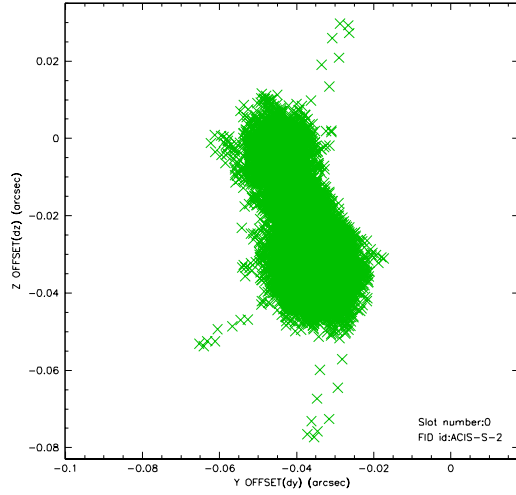


2.4.4 Slot 7

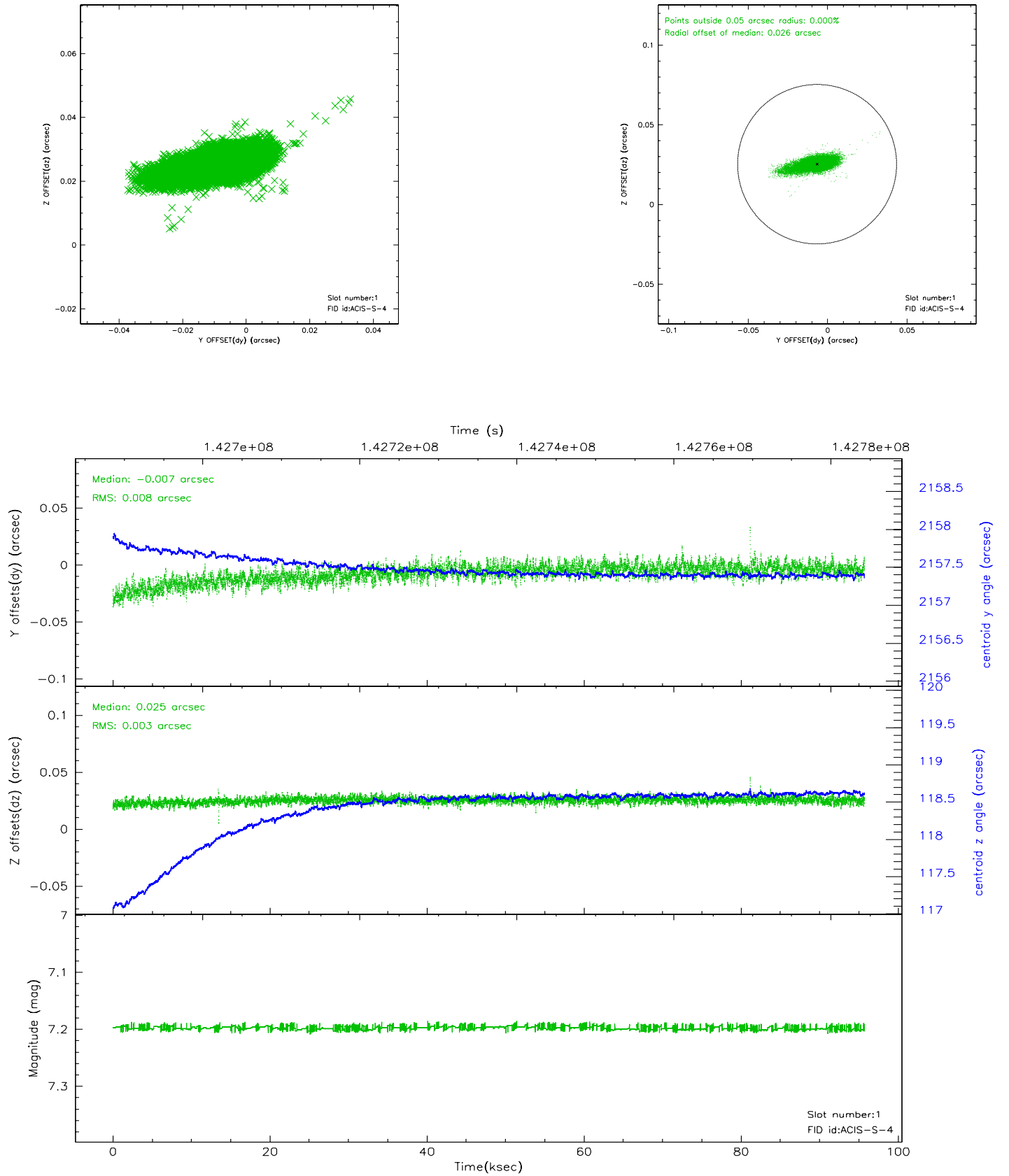


2.5 FID Slots

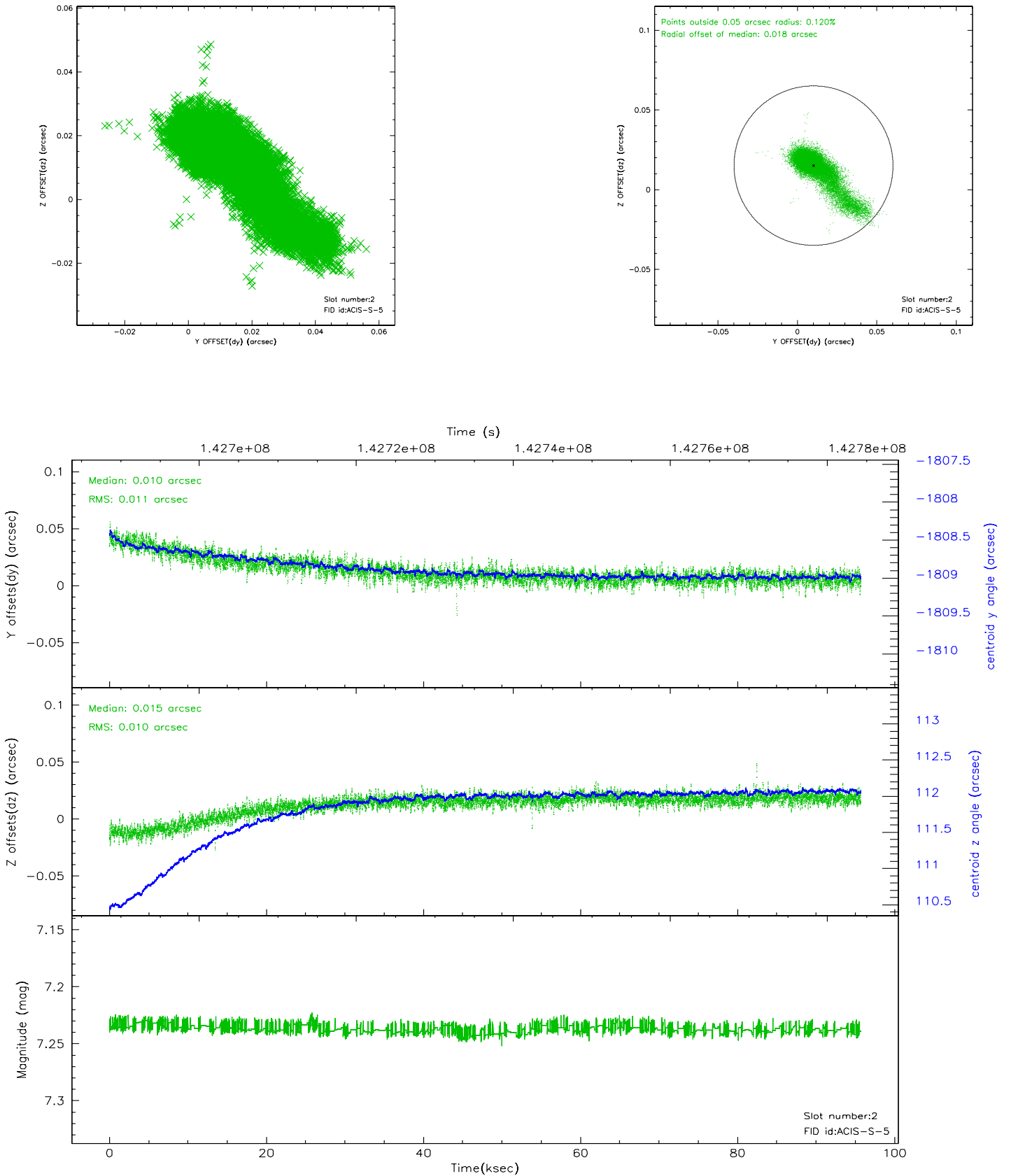
2.5.1 Slot 0



2.5.2 Slot 1

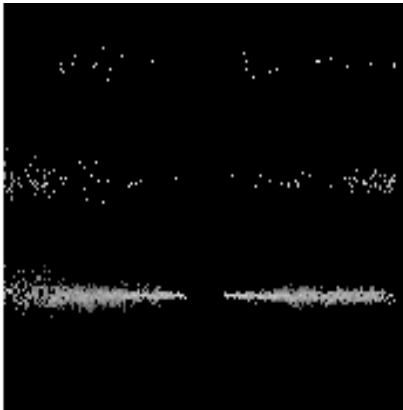


2.5.3 Slot 2

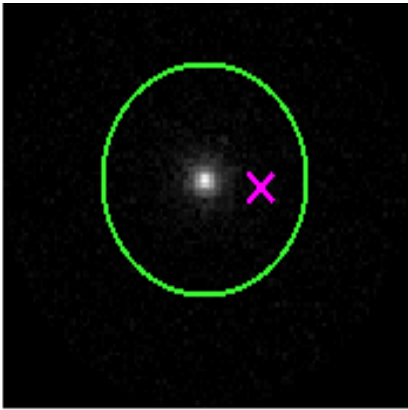


3 Gratings

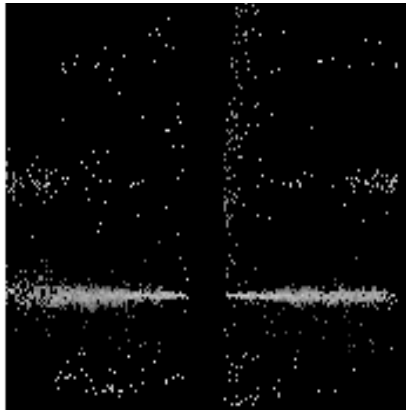
3.1 HEG Arm



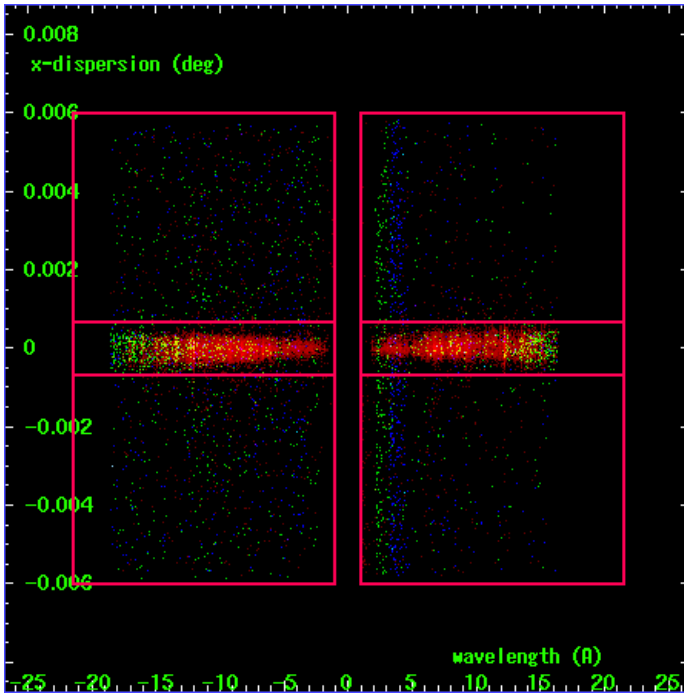
HEG Order Sort 123



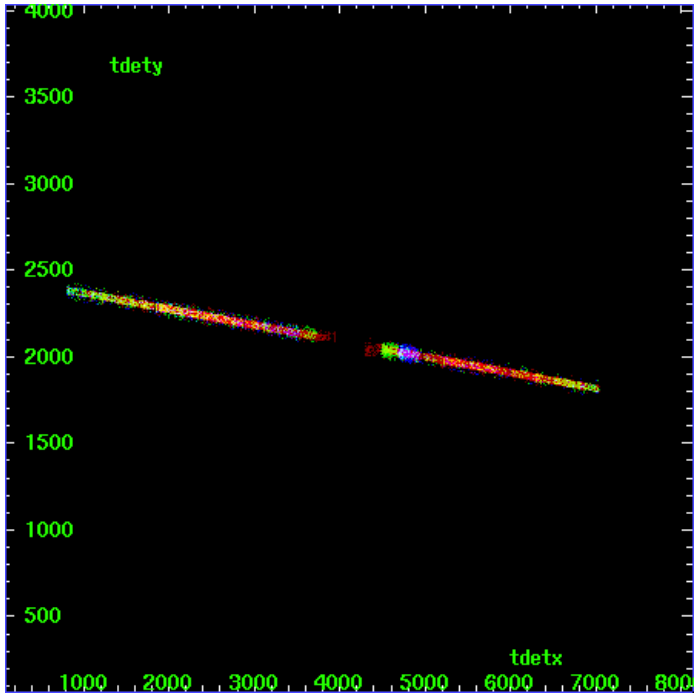
HEG Zero Order



HEG Order Sort ALL

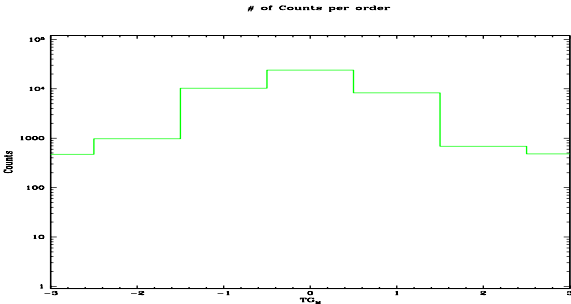


Spot Image HEG

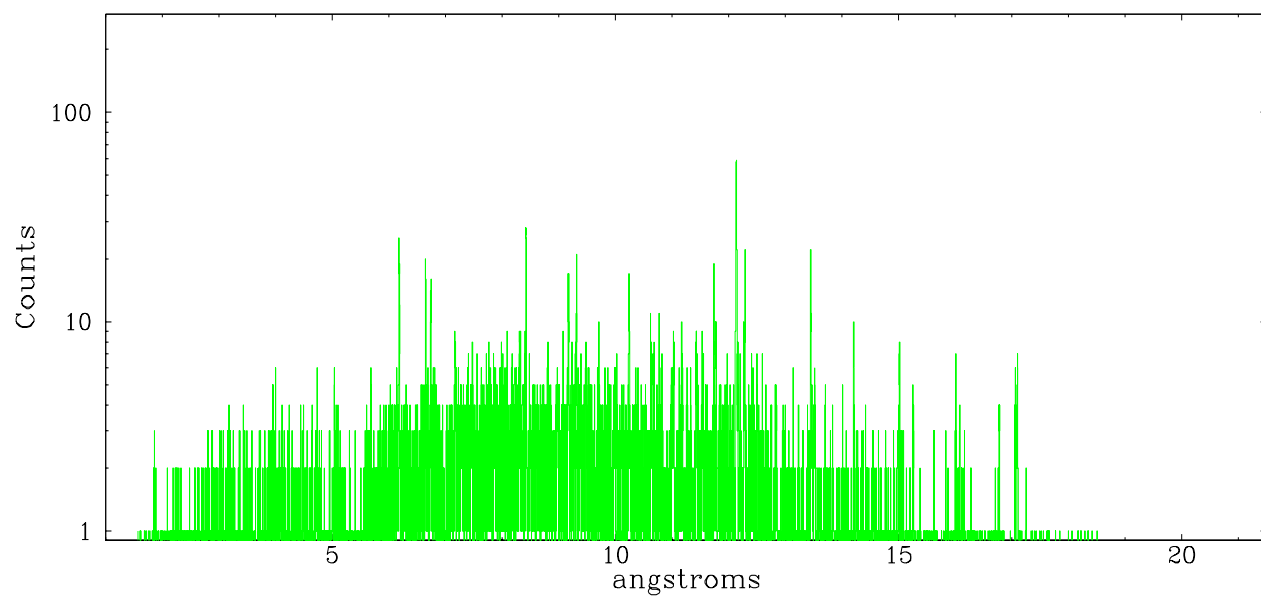


Full Detector HEG

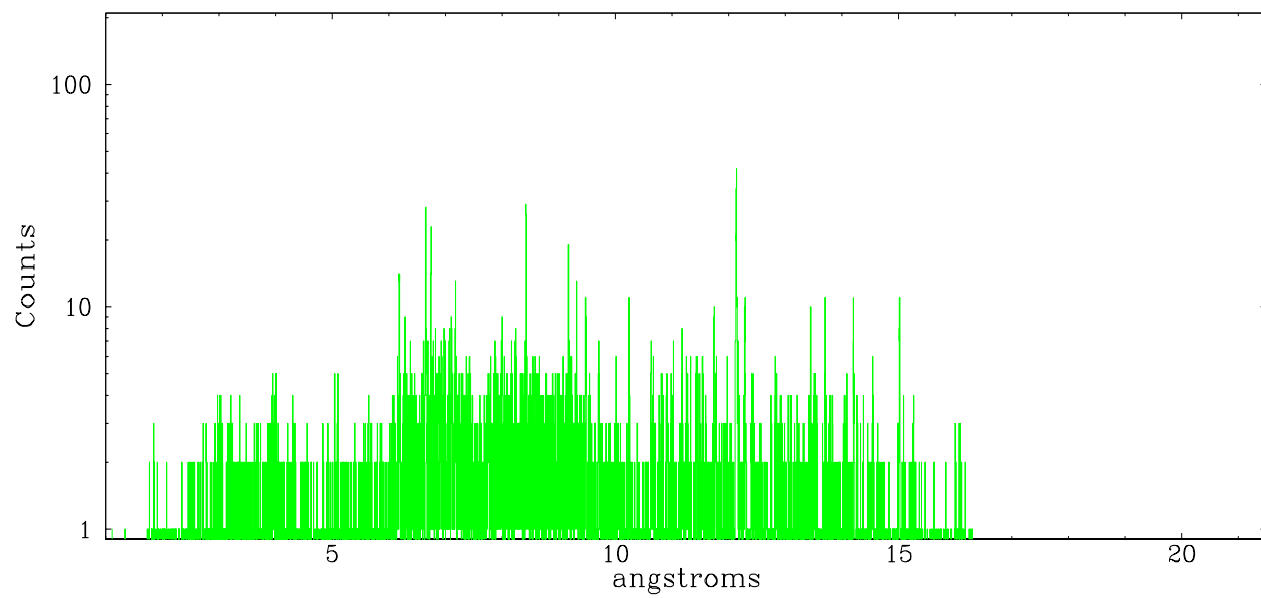
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	472	972	10247	23836	8265	688	481



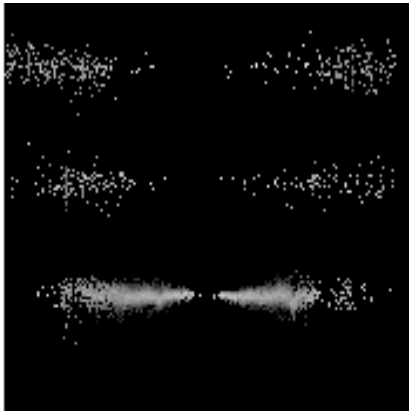
heg order -1



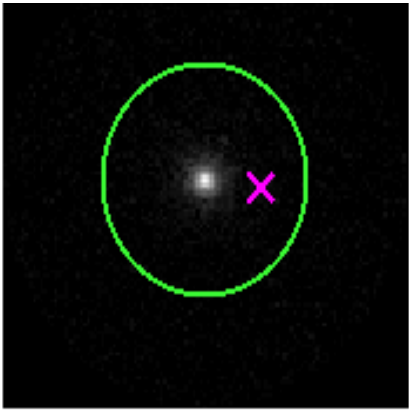
heg order +1



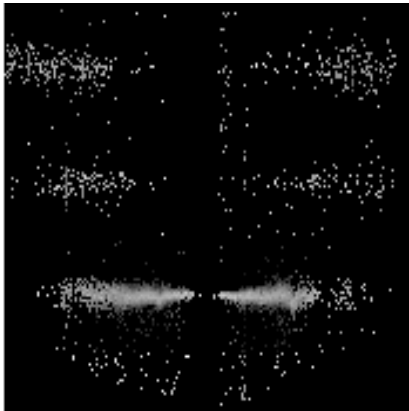
3.2 MEG Arm



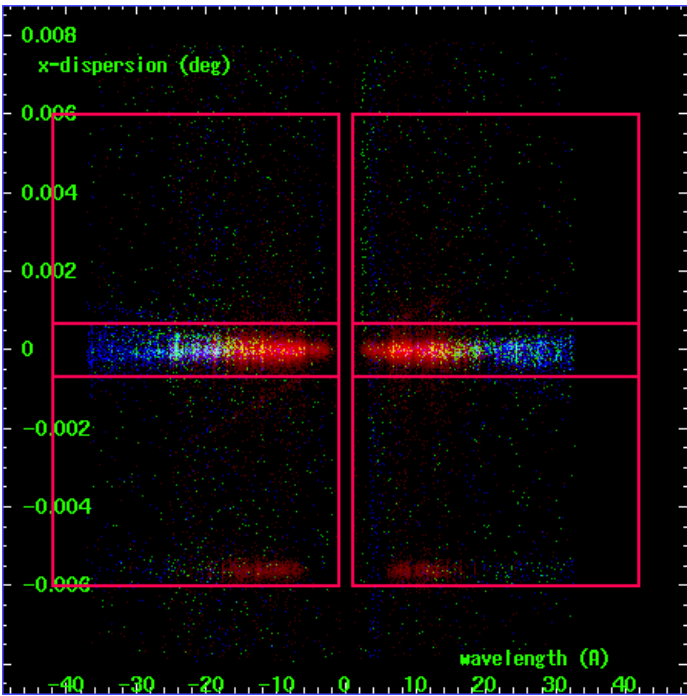
MEG Order Sort 123



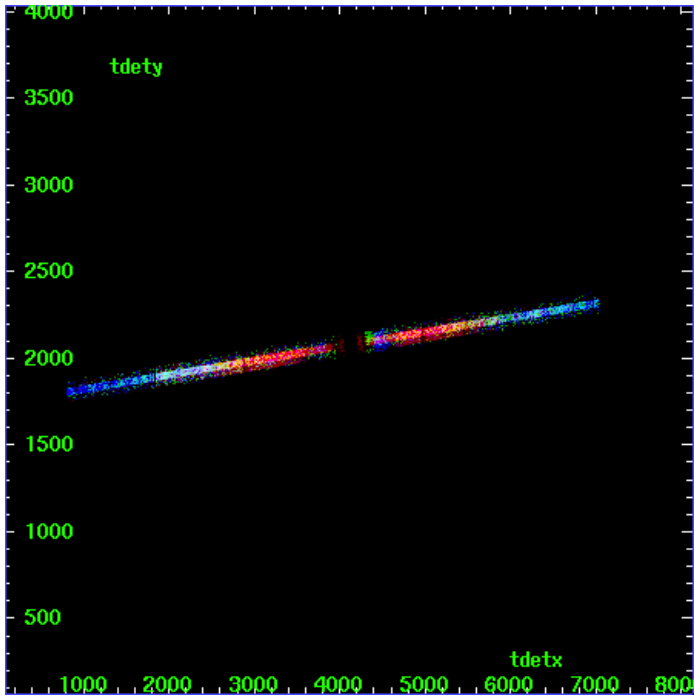
MEG Zero Order



MEG Order Sort ALL

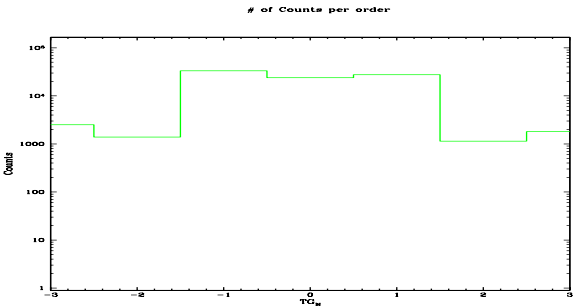


Spot Image MEG

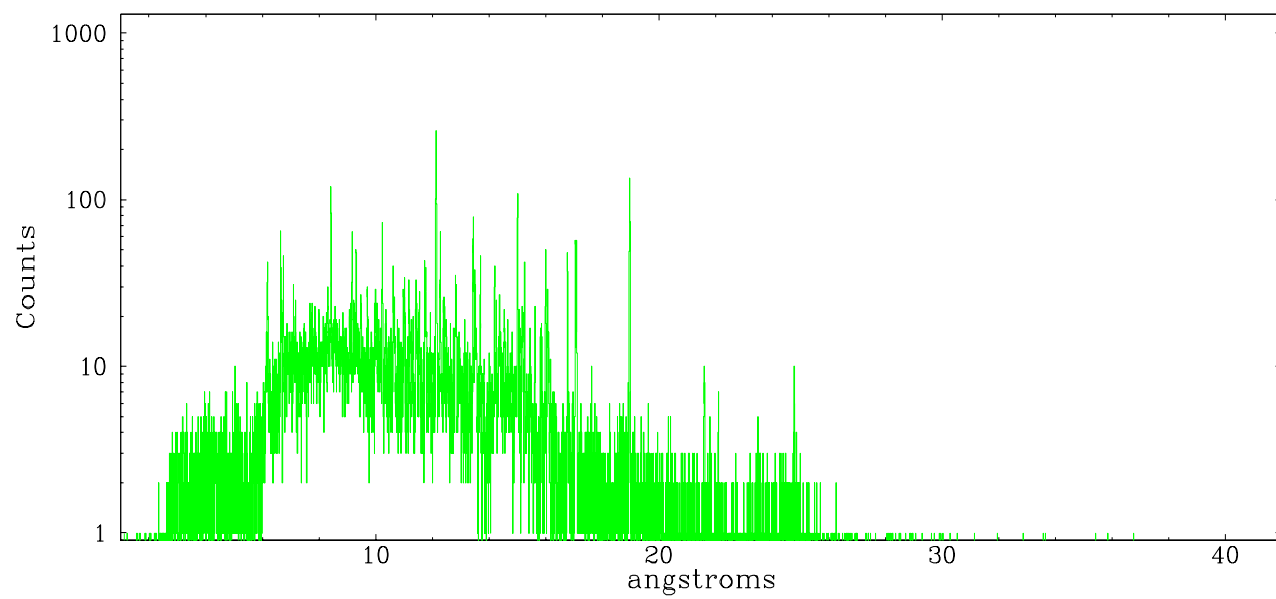


Full Detector MEG

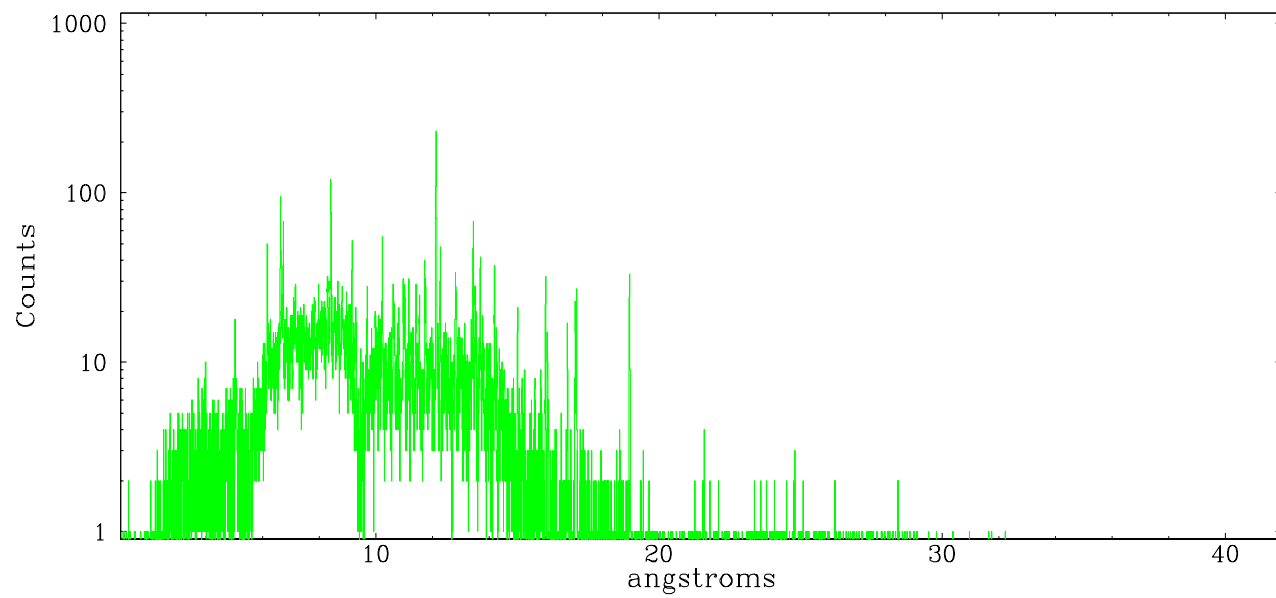
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2508	1389	33157	23836	27696	1136	1796



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	95.43

A.2 Comments

Slot 3 was excluded from aspect solution.