

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4761 - L2 Version 001
Chandra X-Ray Center

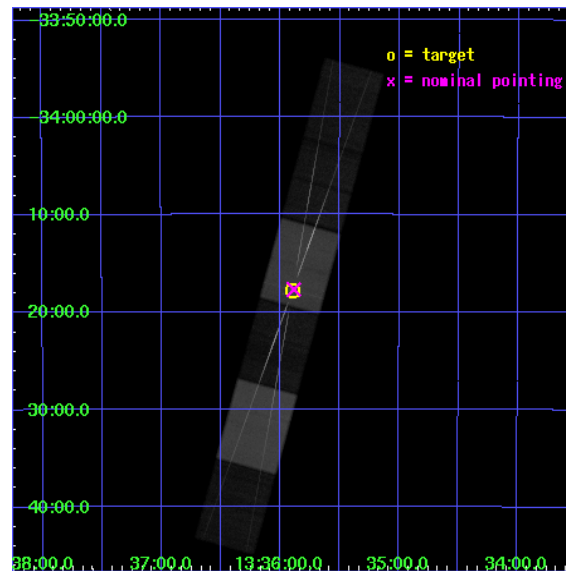
L2 Processing Date : May 17 2006

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

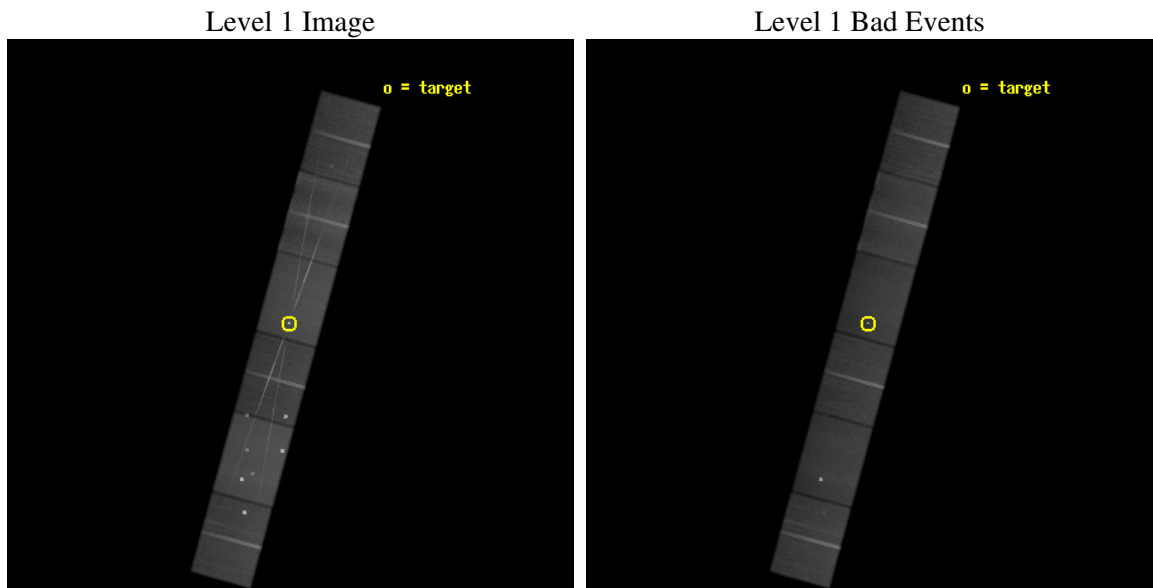
seq_num	700845
obs_id	4761
title	DISSECTING THE ENVIRONMENT OF MCG--6-30-15 WITH THE HETGS
observer	Prof. Claude Canizares
object	MCG--6-30-15
dtcycle	0
cycle	P
ra_targ	203.97375
dec_targ	-34.295833
ra_nom	203.97132364812
dec_nom	-34.294827435959
roll_nom	285.35526428614
revision	2
ontime	158795.0
livetime	156230.32301735
ontime4	158795.0
ontime5	158795.0
ontime6	158795.0
ontime7	158795.0
ontime8	158795.0
ontime9	158792.45898983
l2events	1610975



2 OBI

2.1 OBI

2.1.1 Images

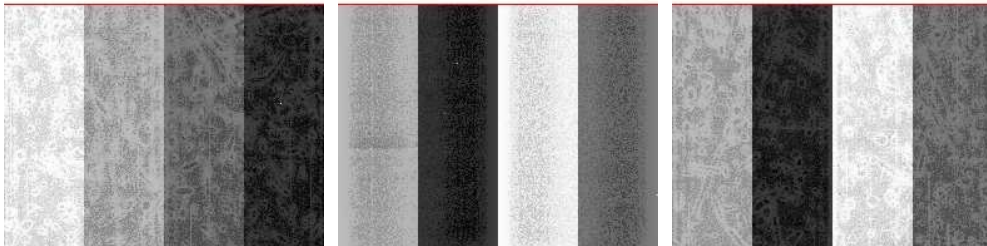


2.1.2 Bias

Chip 4

Chip 5

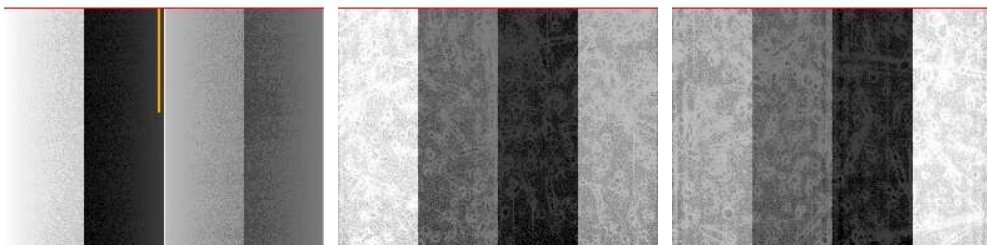
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-17T13:30:59
revision	2

sched_exp_time	158630.000000
ontime	159212.5262897
ontime4	159212.52627981
ontime5	159212.5262897
ontime6	159212.52627981
ontime7	159212.5262897
ontime8	159212.52627981
ontime9	159209.98526964
l1events	6845641

2.1.4 Events

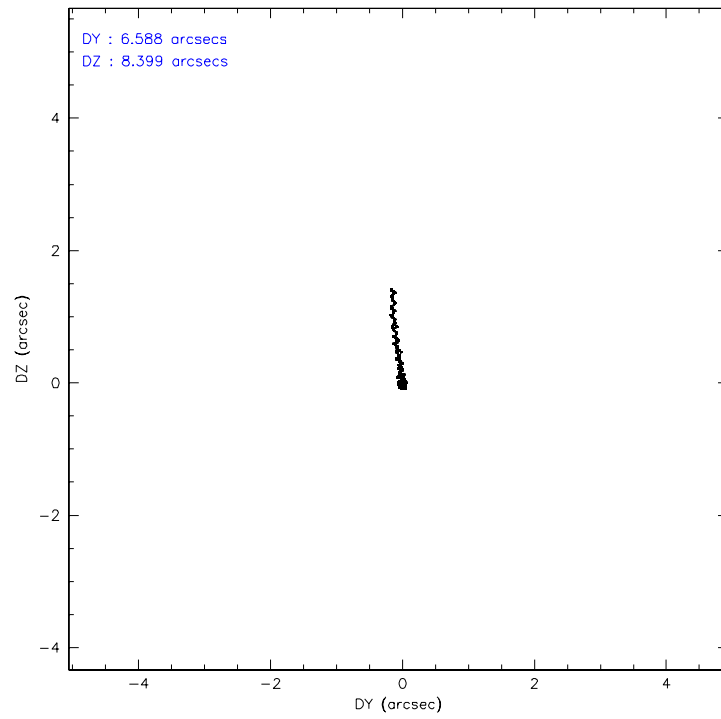
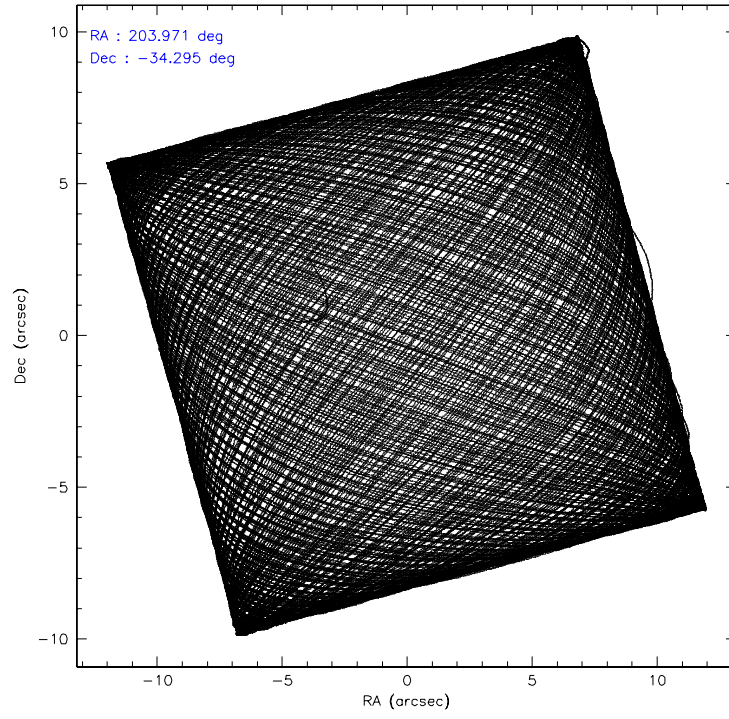
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	1033939	1431373	1005056	1319652	1165584	890037
rejected events	862625	753699	789247	745438	895504	774032
rejected %	83%	52%	78%	56%	76%	86%

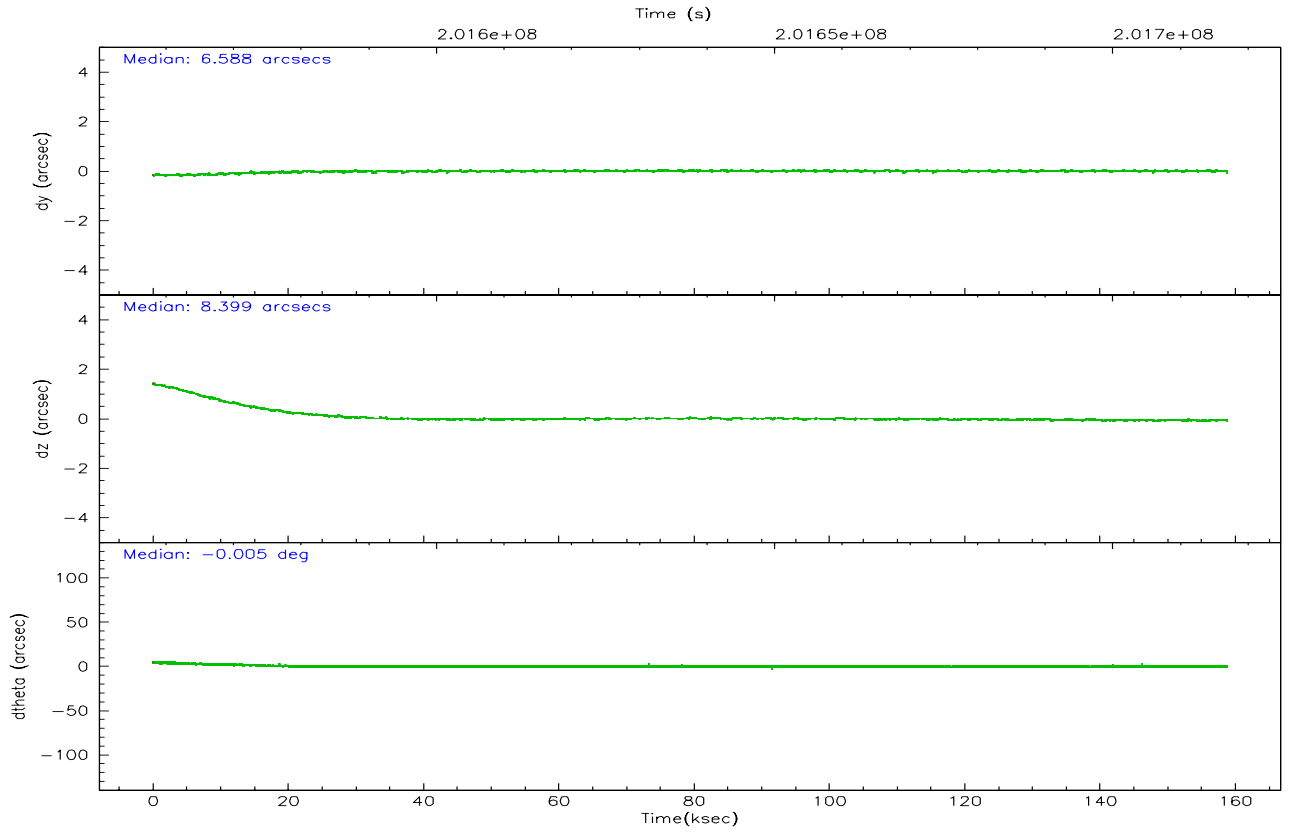
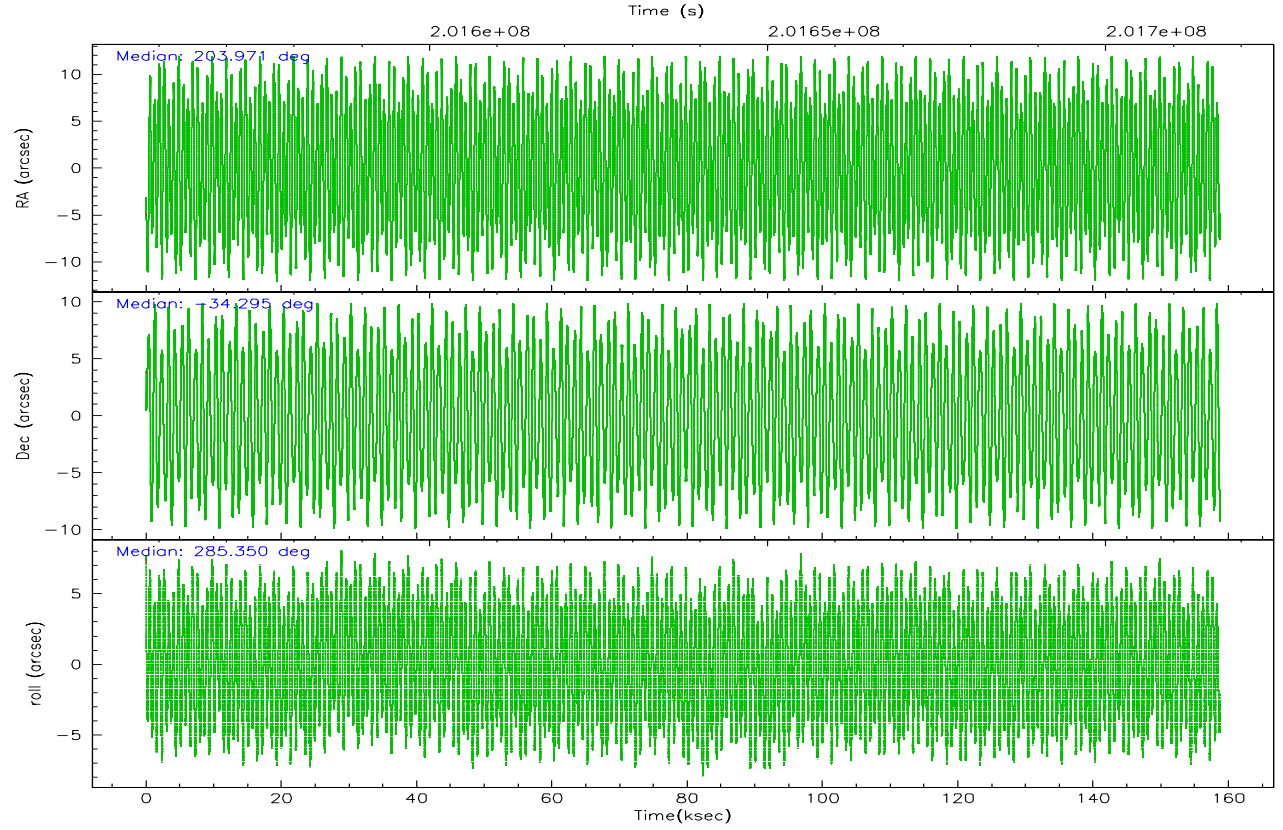
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	106831	108737	98772	47993	102168	50293
	10%	7%	9%	3%	8%	5%
grade 1 events	997	1270	597	1564	774	482
	0%	0%	0%	0%	0%	0%
grade 2 events	24086	206880	66811	140713	54562	21843
	2%	14%	6%	10%	4%	2%
grade 3 events	11806	17450	13697	38078	26622	11750
	1%	1%	1%	2%	2%	1%
grade 4 events	11503	16421	13403	37136	25474	11334
	1%	1%	1%	2%	2%	1%
grade 5 events	37639	82356	40204	90522	52621	42584
	3%	5%	4%	6%	4%	4%
grade 6 events	17523	329975	23570	311666	62108	21074
	1%	23%	2%	23%	5%	2%
grade 7 events	823554	668284	748002	651980	841255	730677
	79%	46%	74%	49%	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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	203.947580	203.9713236481186	Subarray start row	1	1
Pointing Dec	-34.275978	-34.29482743595921	Subarray row count	774	774
Pointing Roll	285.185264	285.3552642861372	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	2.5
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	201558265.184000	201557095.72295			
Observation start date	2004-05-21T20:23:21	2004-05-21T20:04:55			
Observation end time	201716895.184000	201718407.15507			
Observation end date	2004-05-23T16:27:11	2004-05-23T16:53:27			
Read mode	TIMED	TIMED			

2.3 Aspect



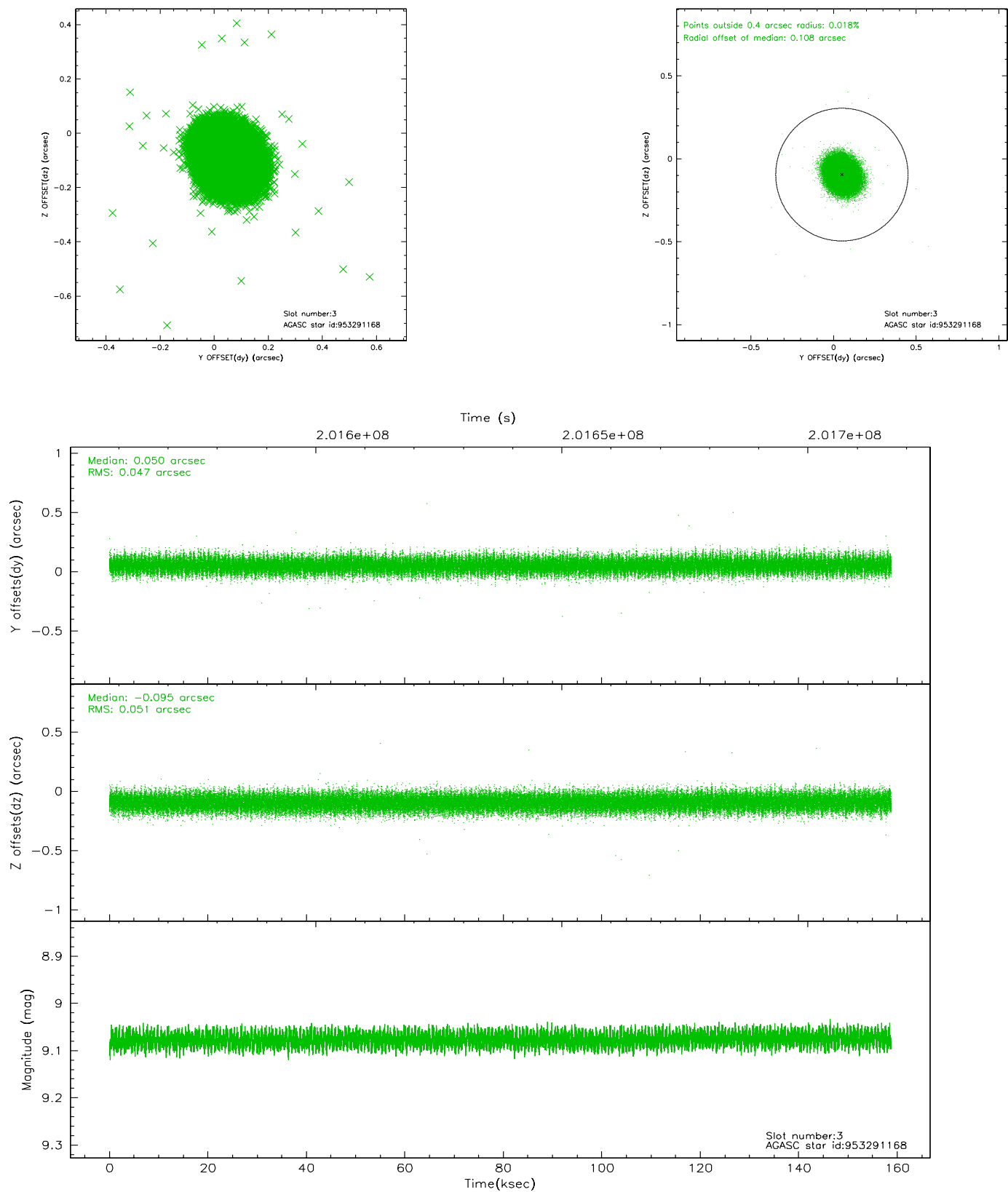


Slot Statistics

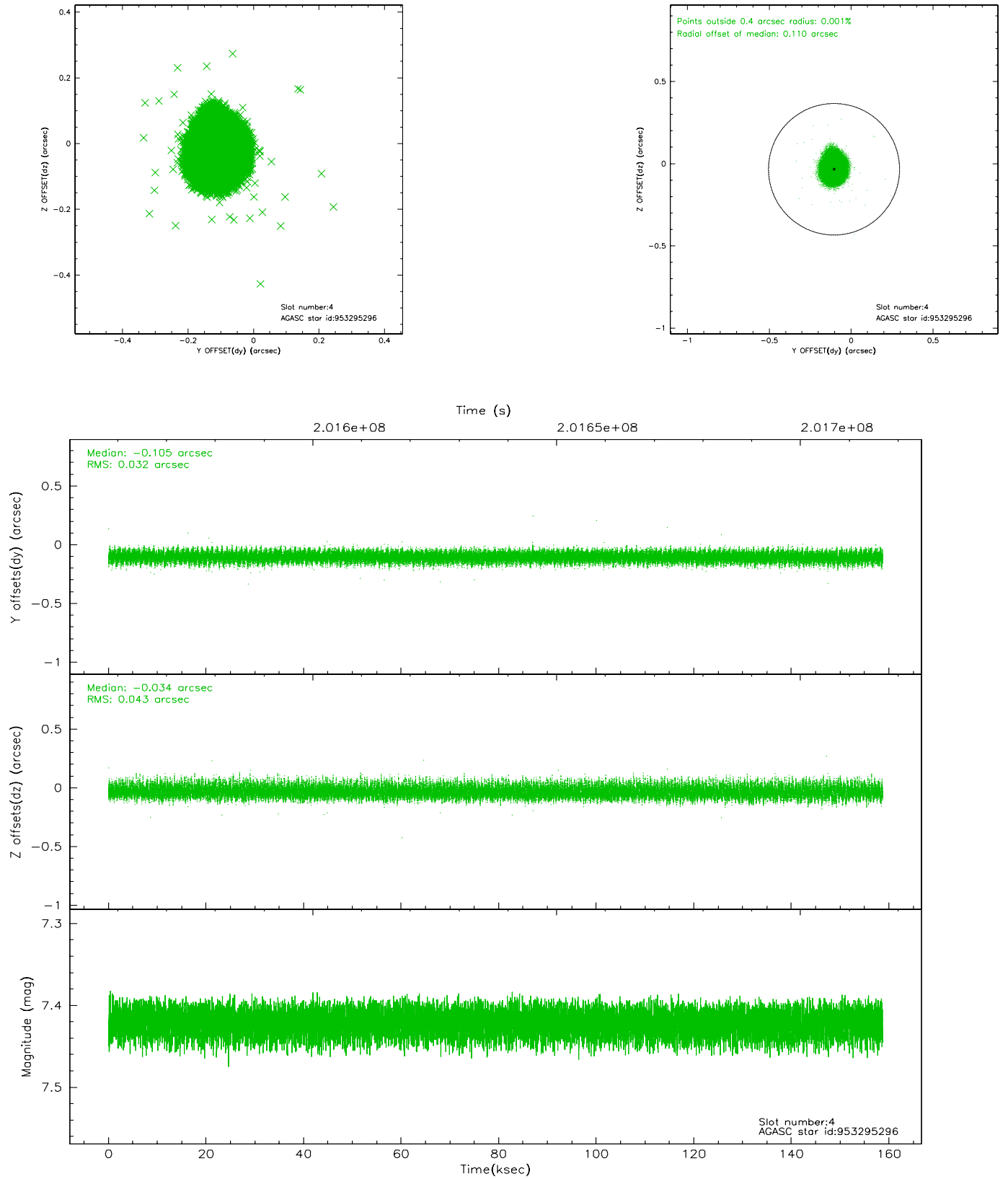
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	38731	-0.080	-0.029	0.007	0.021	0.000000	0.000000	-759.17	-1791.88
1	FID	ACIS-S-4	7.20	38731	0.081	0.046	0.006	0.020	0.000000	0.000000	2154.30	116.82
2	FID	ACIS-S-5	7.23	38729	-0.032	-0.009	0.007	0.017	0.000000	0.000000	-1812.13	110.27
3	GUIDE	953291168	9.08	77423	0.050	-0.095	0.074	0.119	204.023430	-34.374021	400.28	124.87
4	GUIDE	953295296	7.43	77458	-0.105	-0.034	0.057	0.092	203.563852	-34.387568	91.63	-1205.94
5	GUIDE	953296432	8.99	77381	-0.017	0.157	0.089	0.150	204.411860	-34.306423	470.78	1302.88
6	GUIDE	953297000	9.48	77344	0.082	-0.076	0.118	0.199	203.651481	-34.967131	2174.41	-1494.97
7	GUIDE	953294840	8.48	77383	-0.010	0.047	0.056	0.091	204.478170	-34.846425	2396.89	974.26

2.4 Star Slots

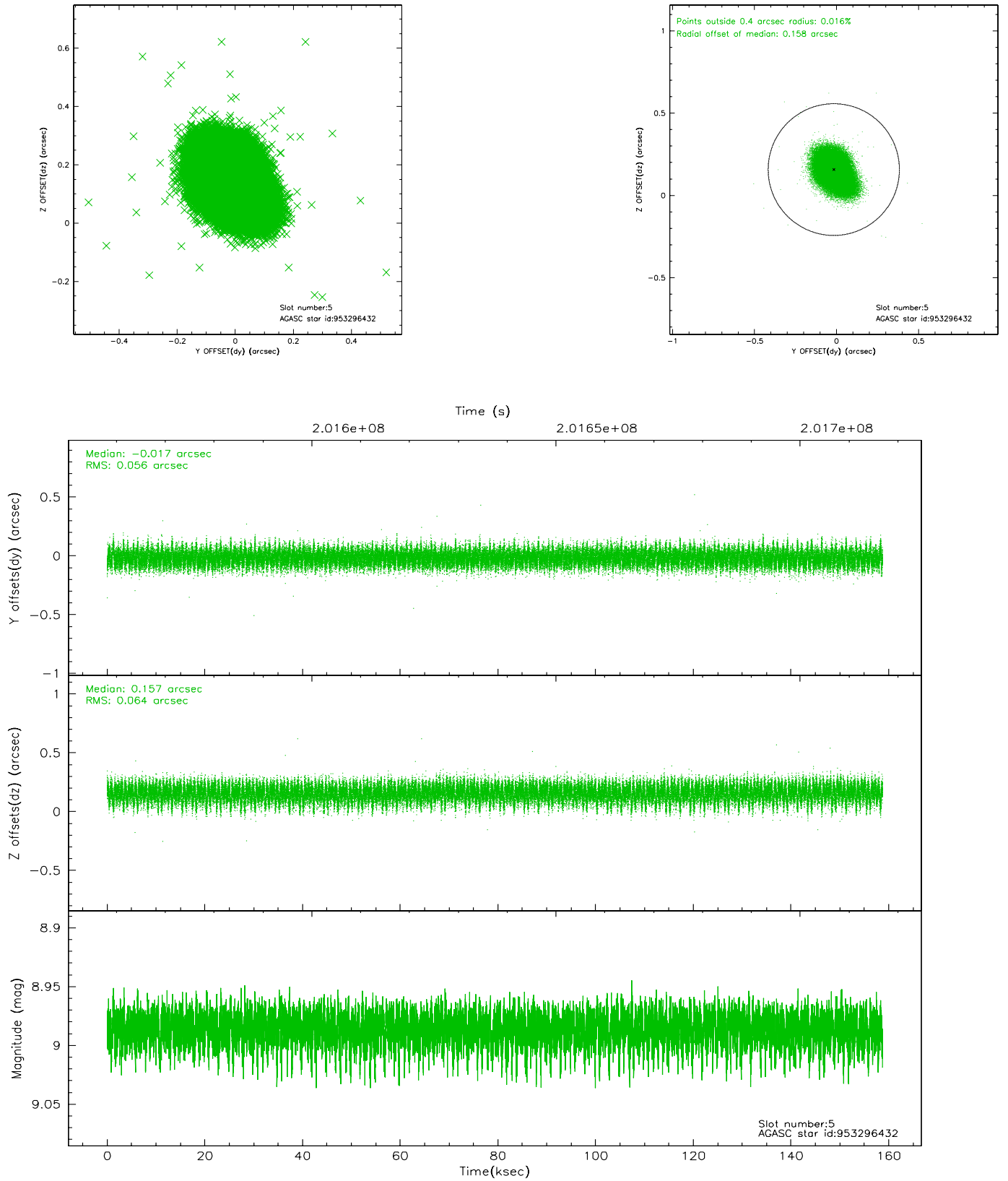
2.4.1 Slot 3



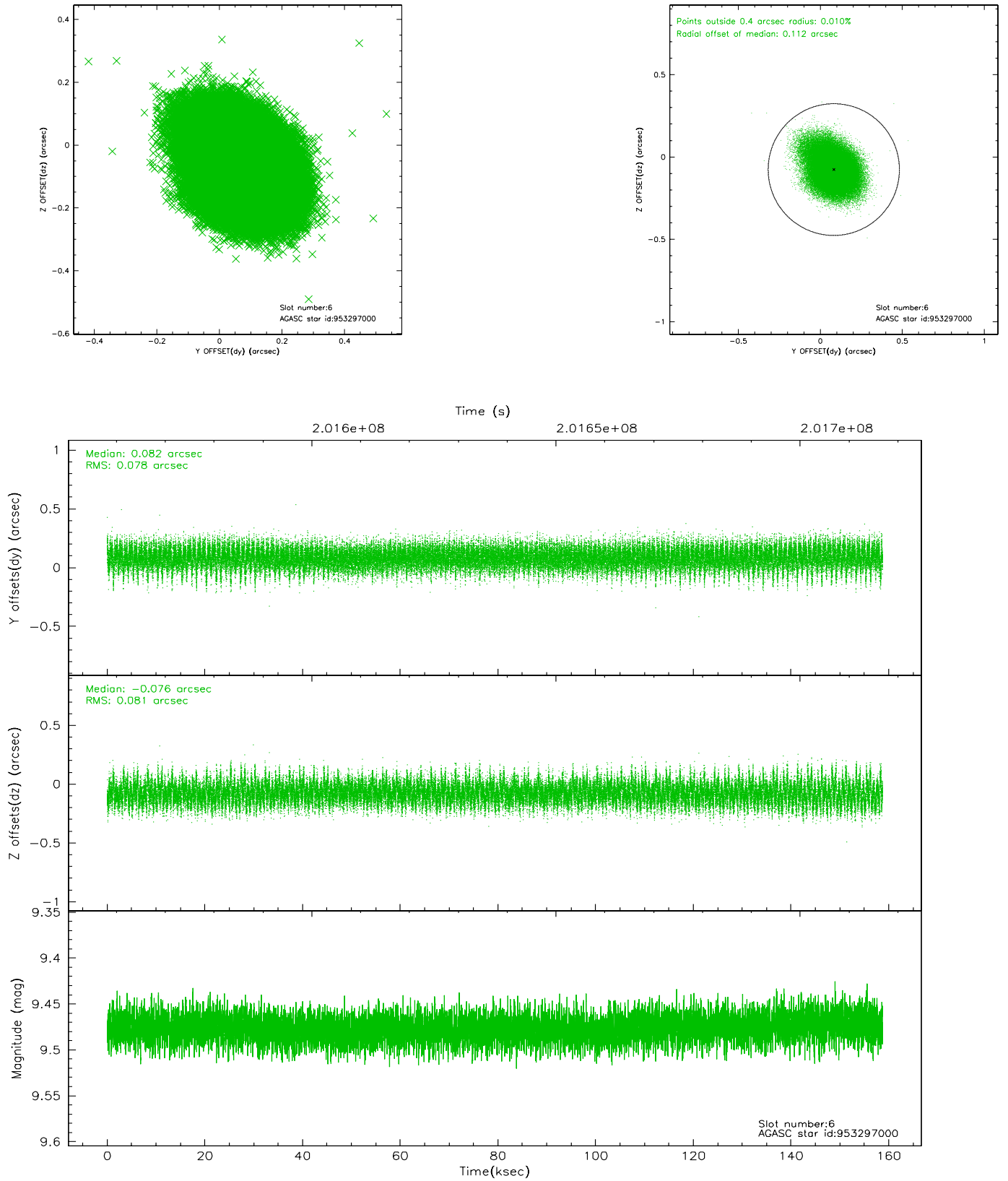
2.4.2 Slot 4



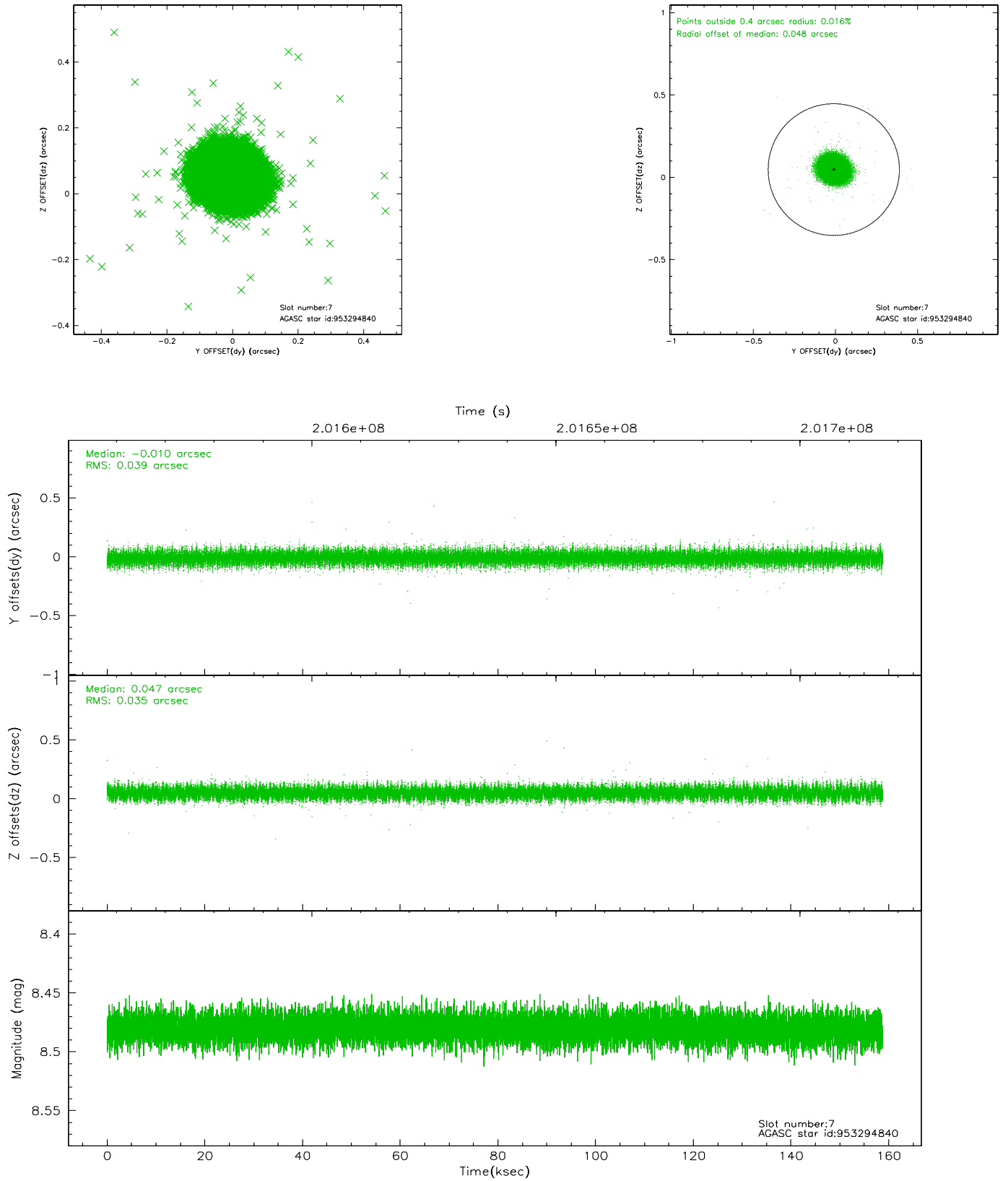
2.4.3 Slot 5



2.4.4 Slot 6

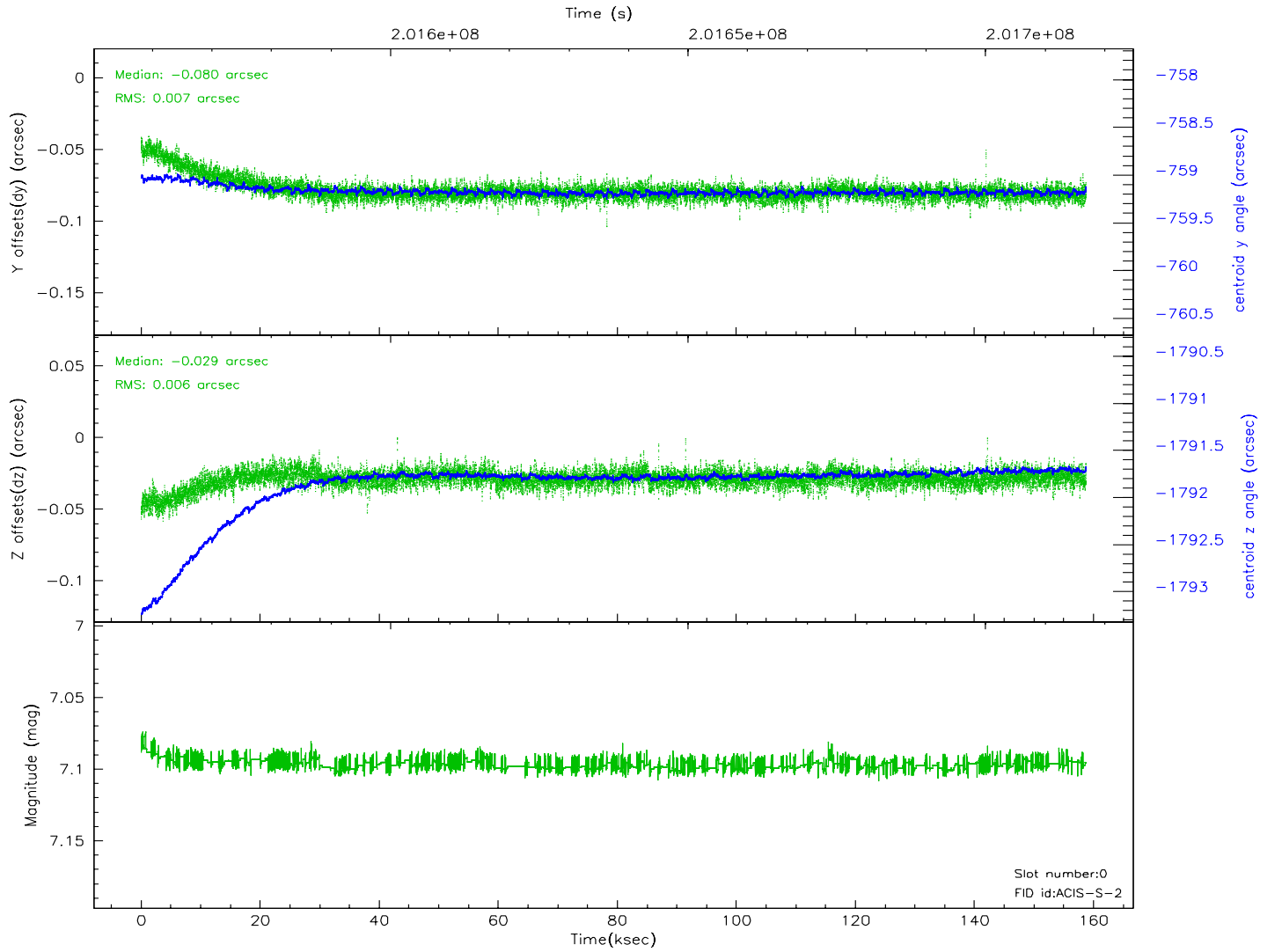
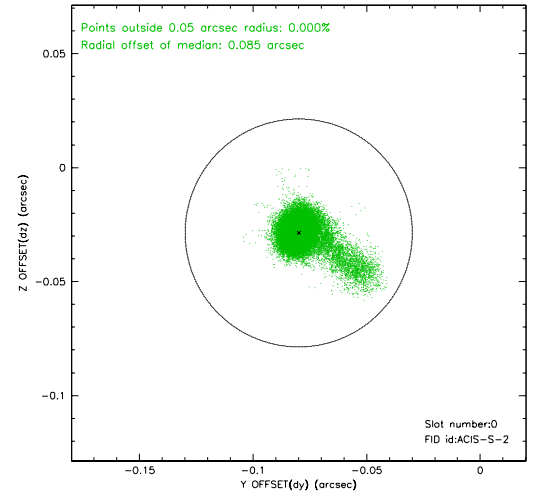
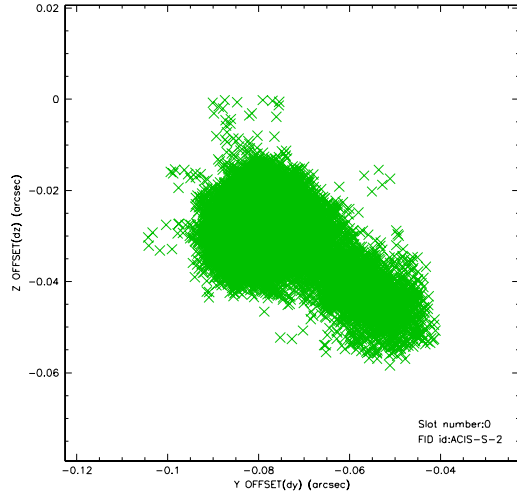


2.4.5 Slot 7

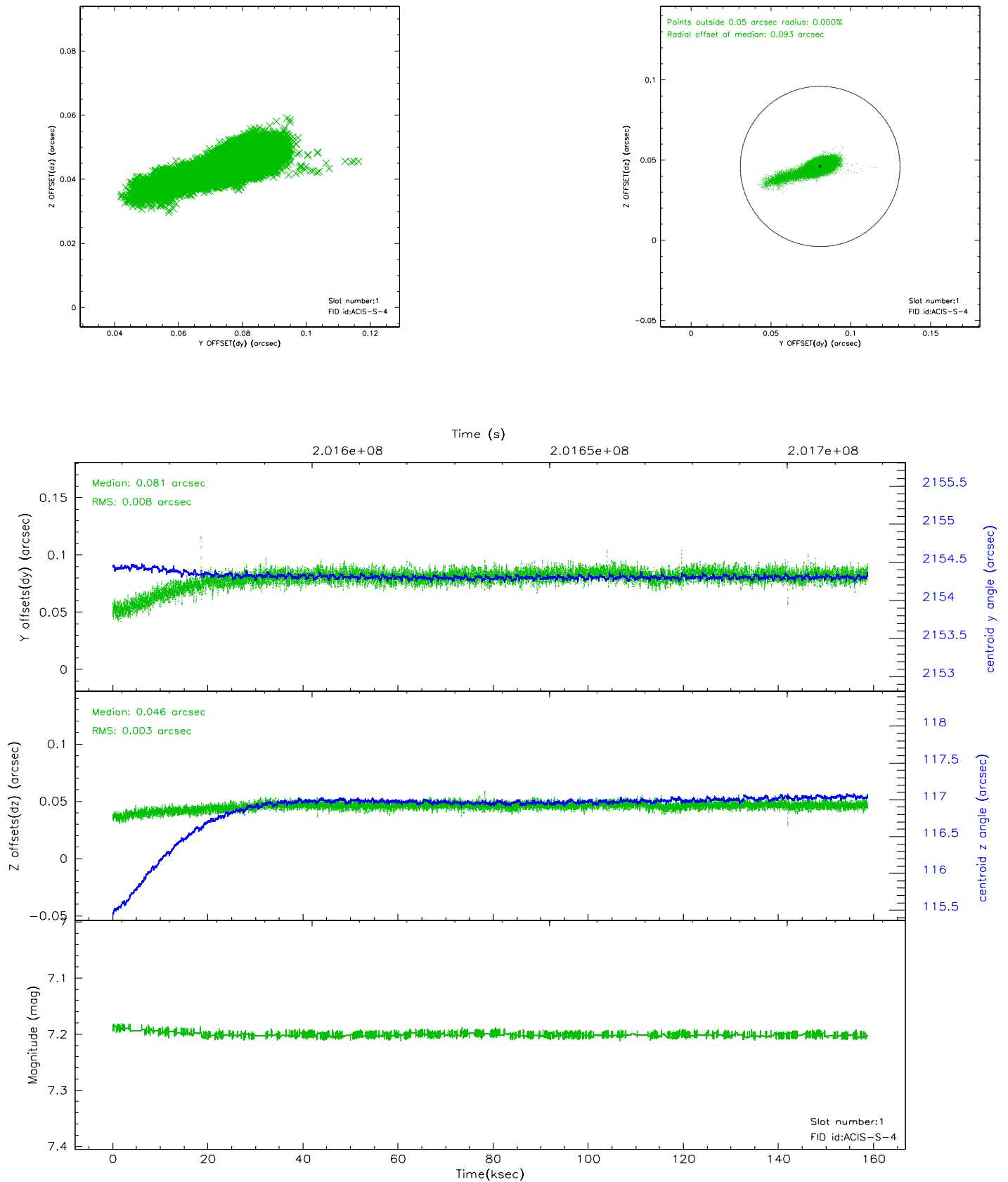


2.5 FID Slots

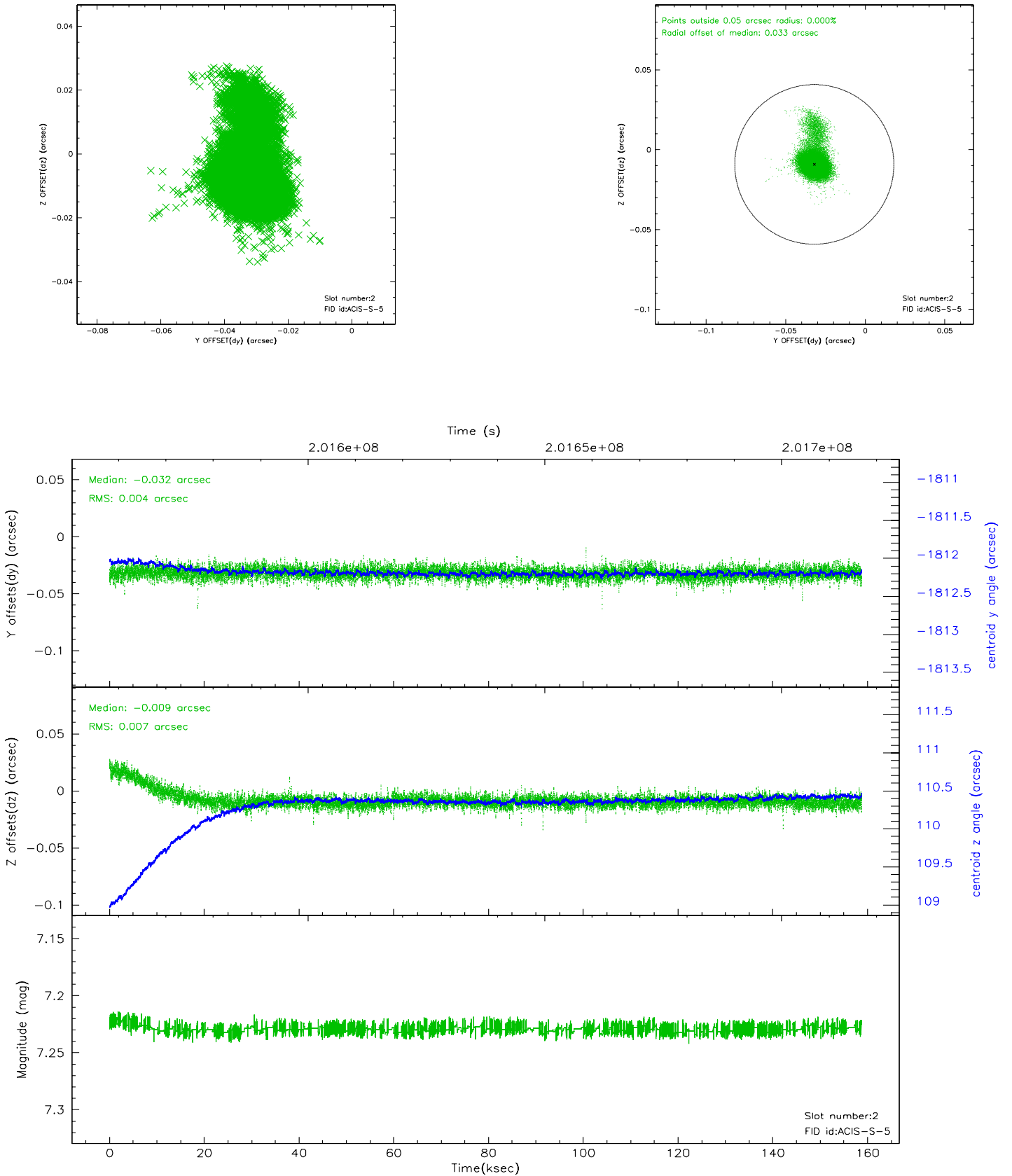
2.5.1 Slot 0



2.5.2 Slot 1

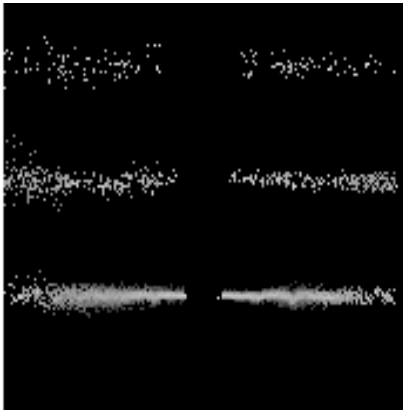


2.5.3 Slot 2

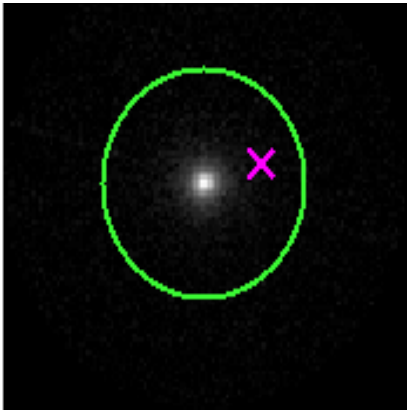


3 Gratings

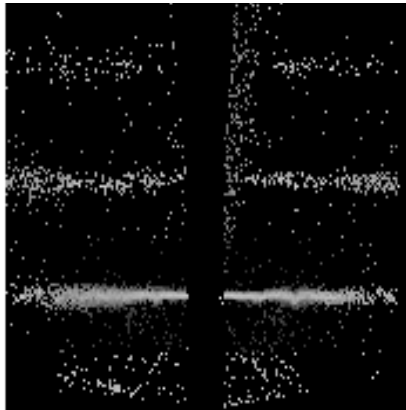
3.1 HEG Arm



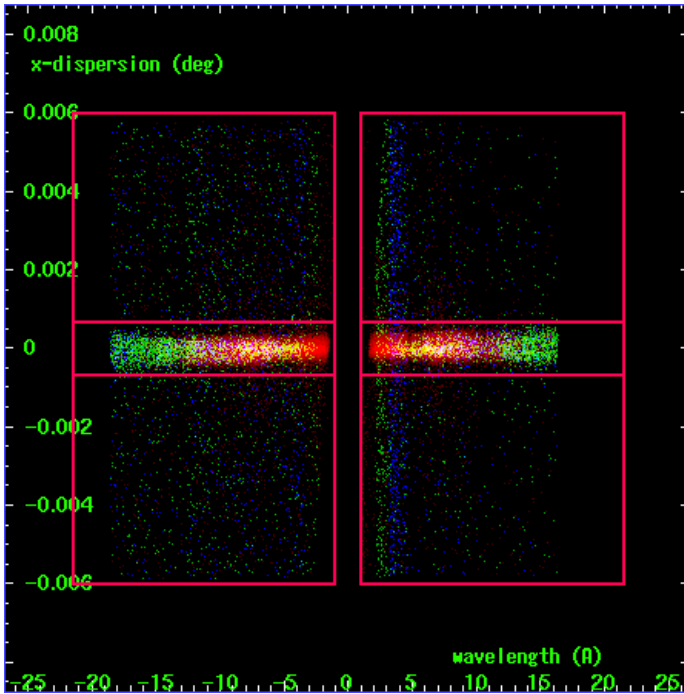
HEG Order Sort 123



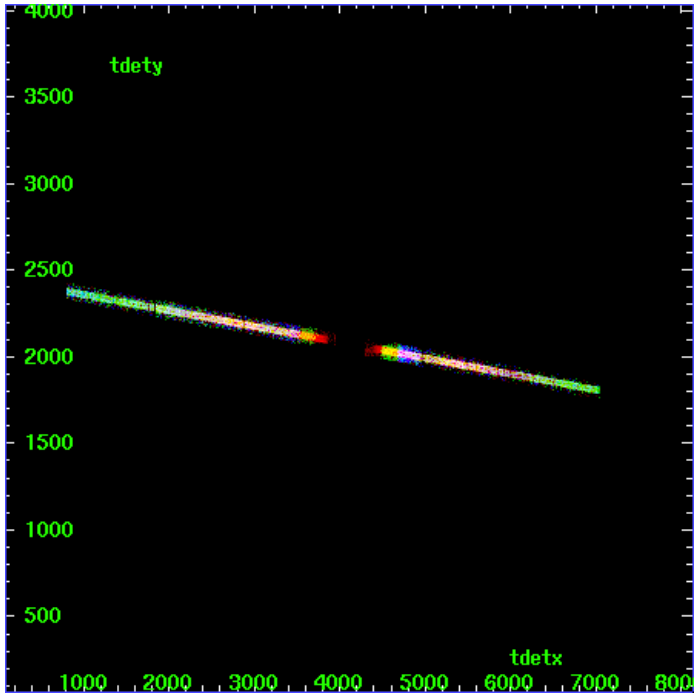
HEG Zero Order



HEG Order Sort ALL

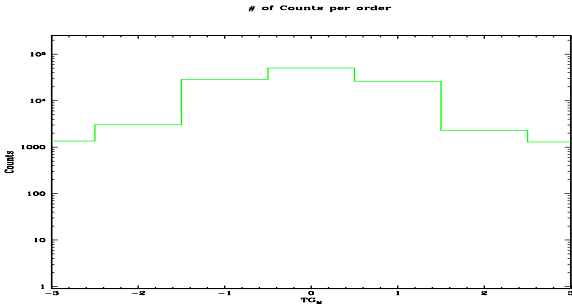


Spot Image HEG

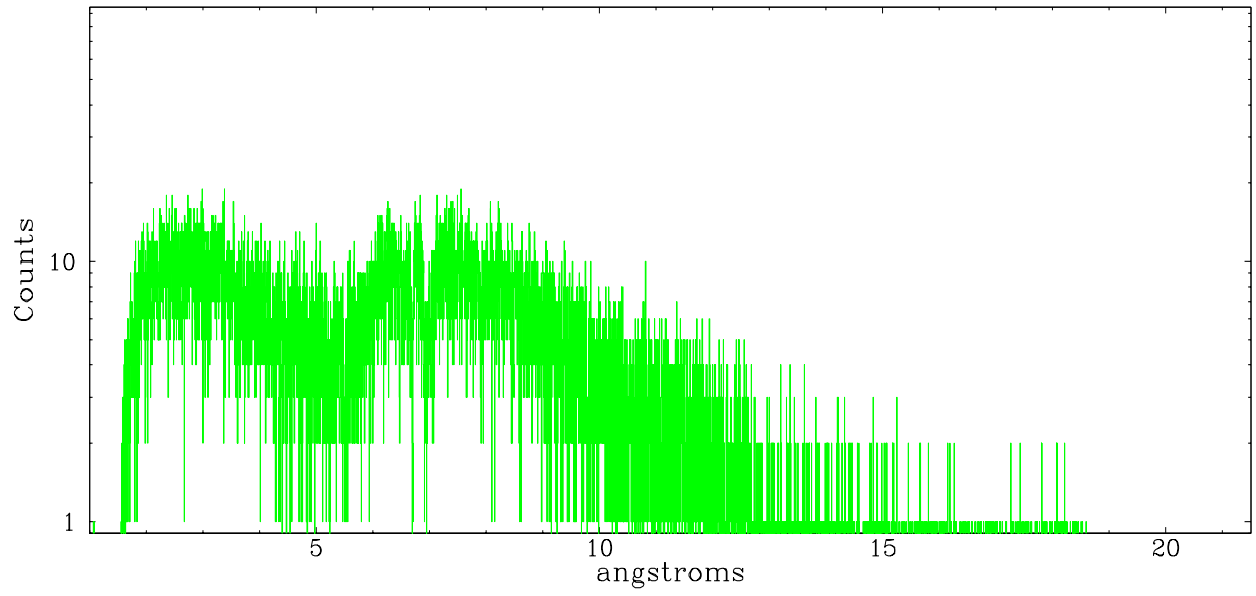


Full Detector HEG

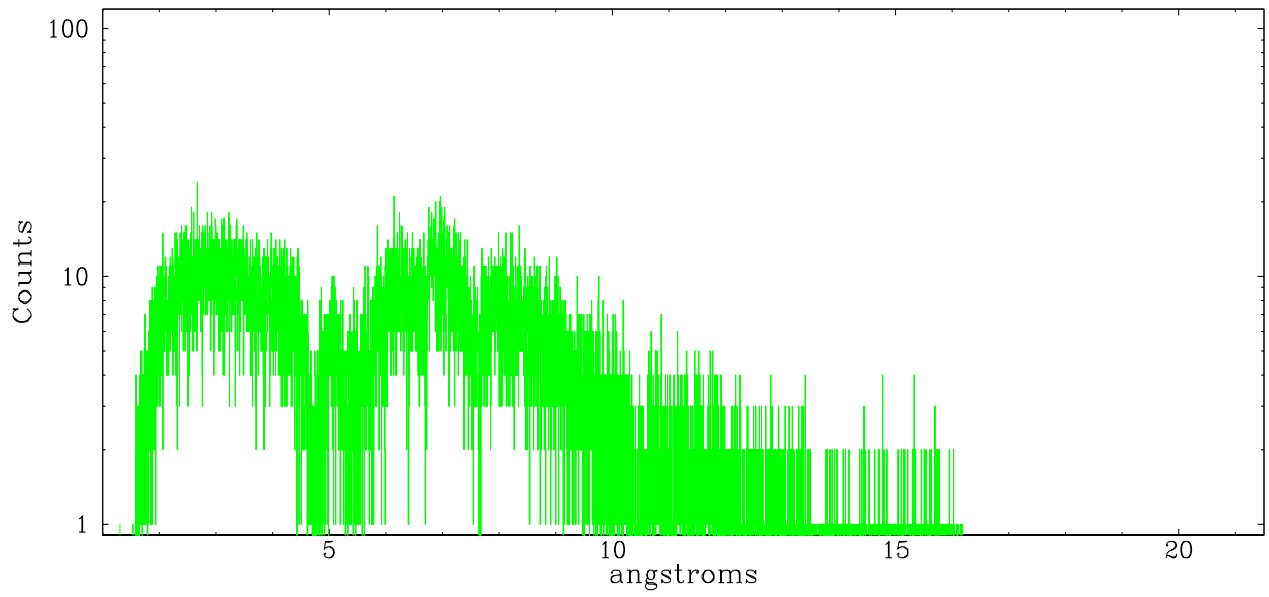
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1357	3022	28871	50373	26287	2269	1296



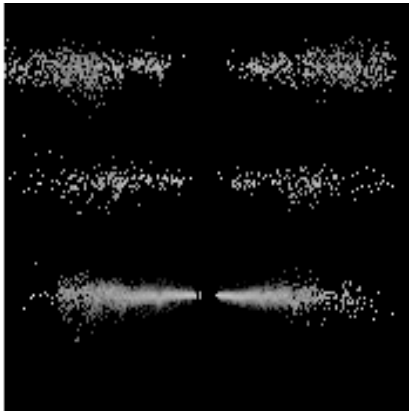
heg order -1



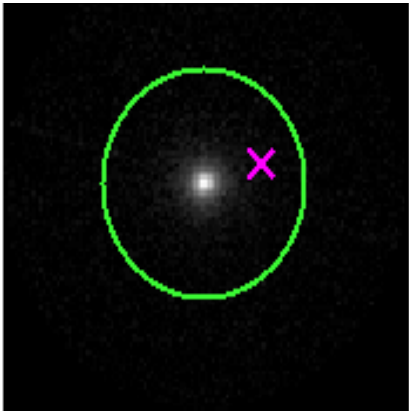
heg order +1



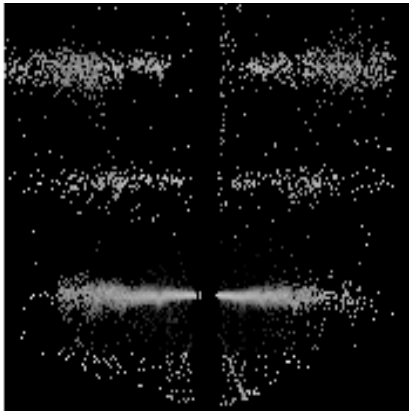
3.2 MEG Arm



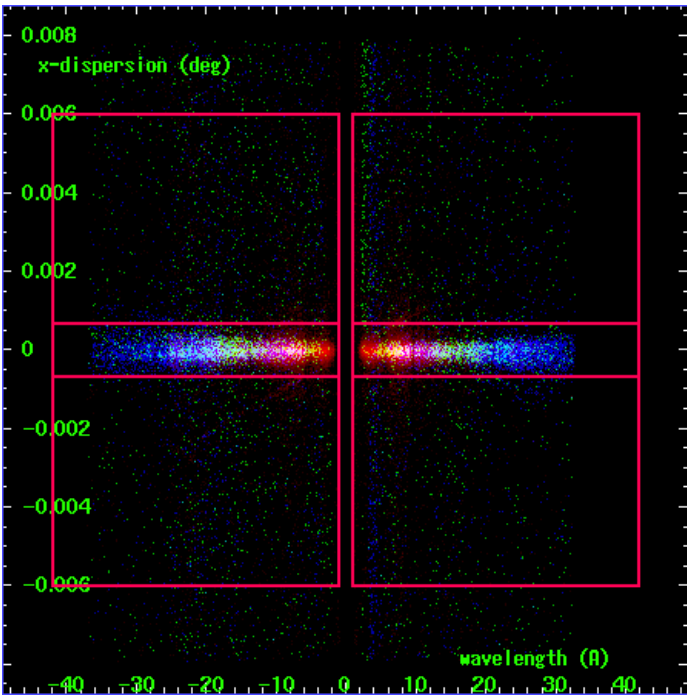
MEG Order Sort 123



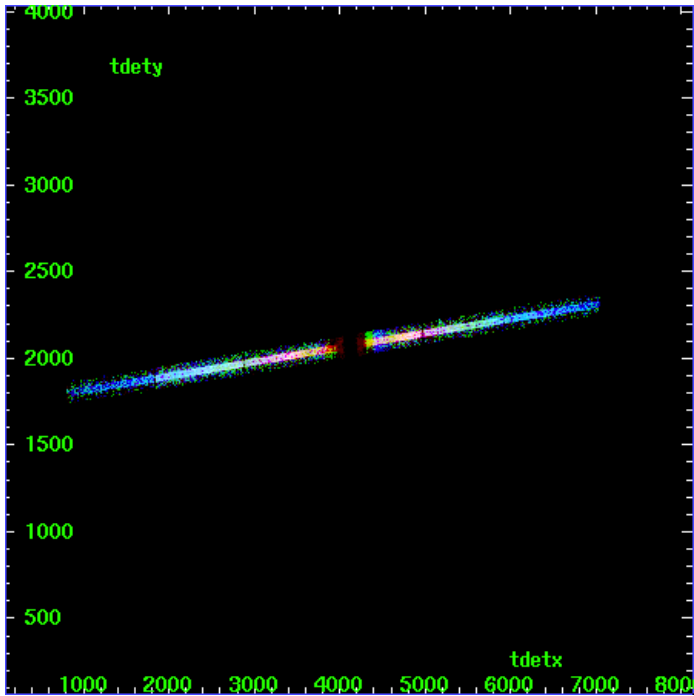
MEG Zero Order



MEG Order Sort ALL

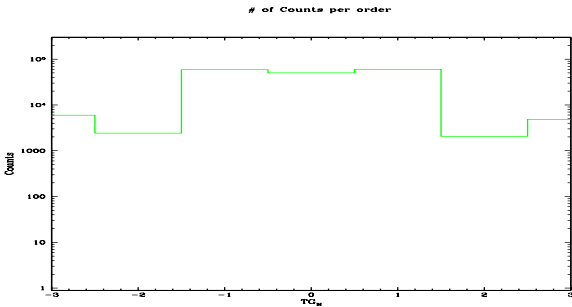


Spot Image MEG

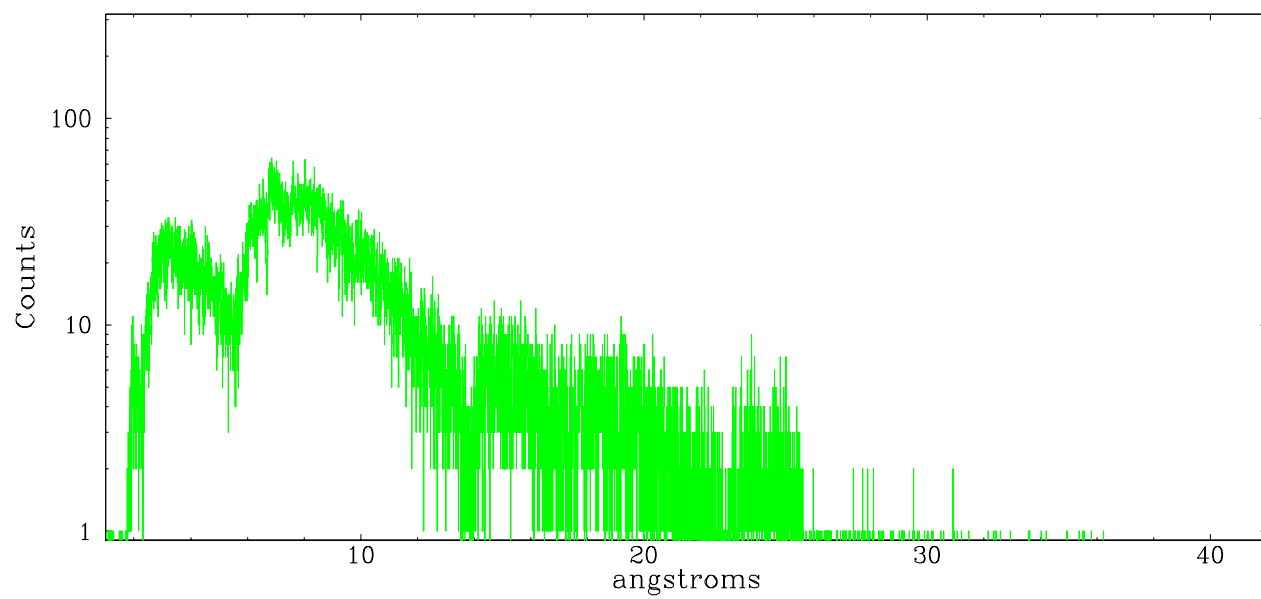


Full Detector MEG

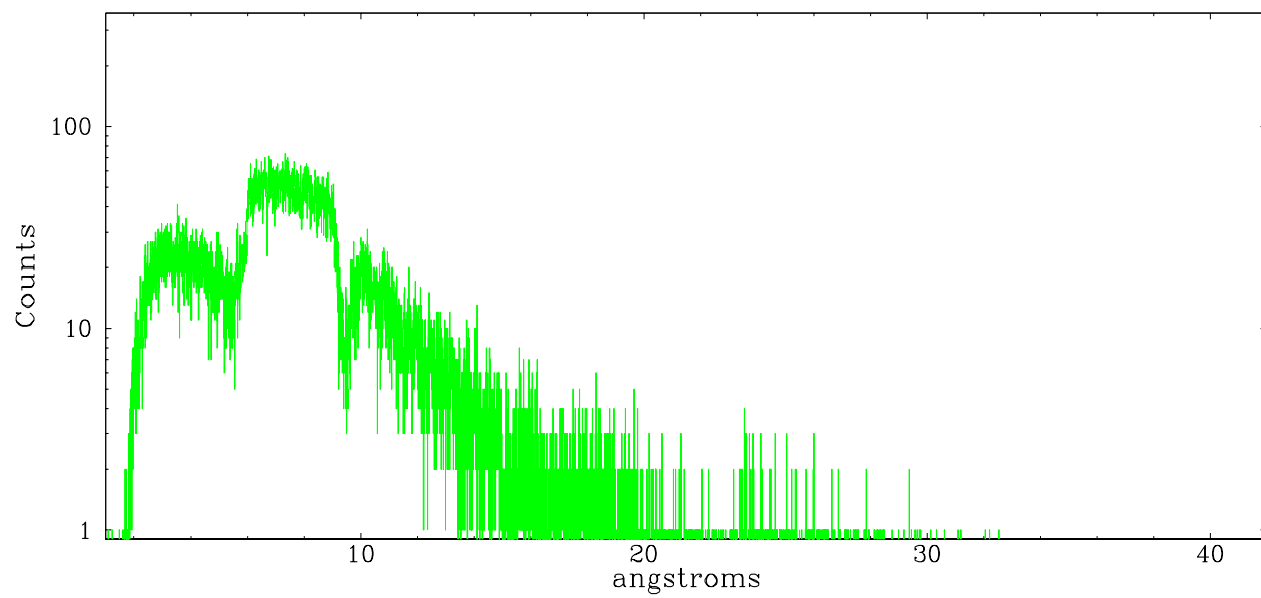
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	5951	2428	58667	50373	60026	2060	4841



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	158.795

A.2 Comments