

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 17 - L2 Version 001
Chandra X-Ray Center

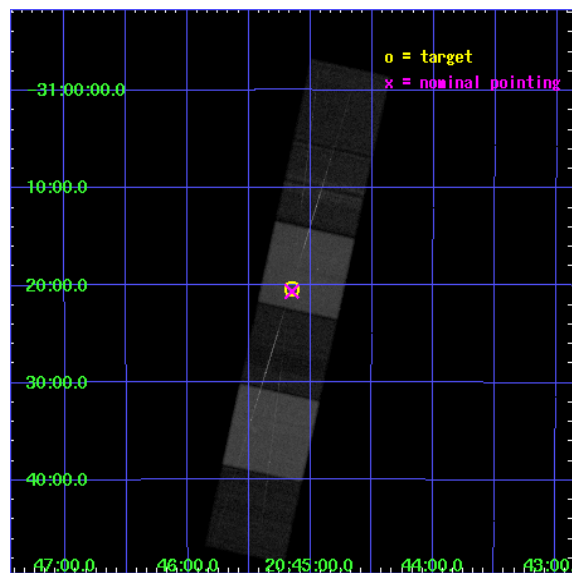
L2 Processing Date : Jun 16 2007

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1 Front

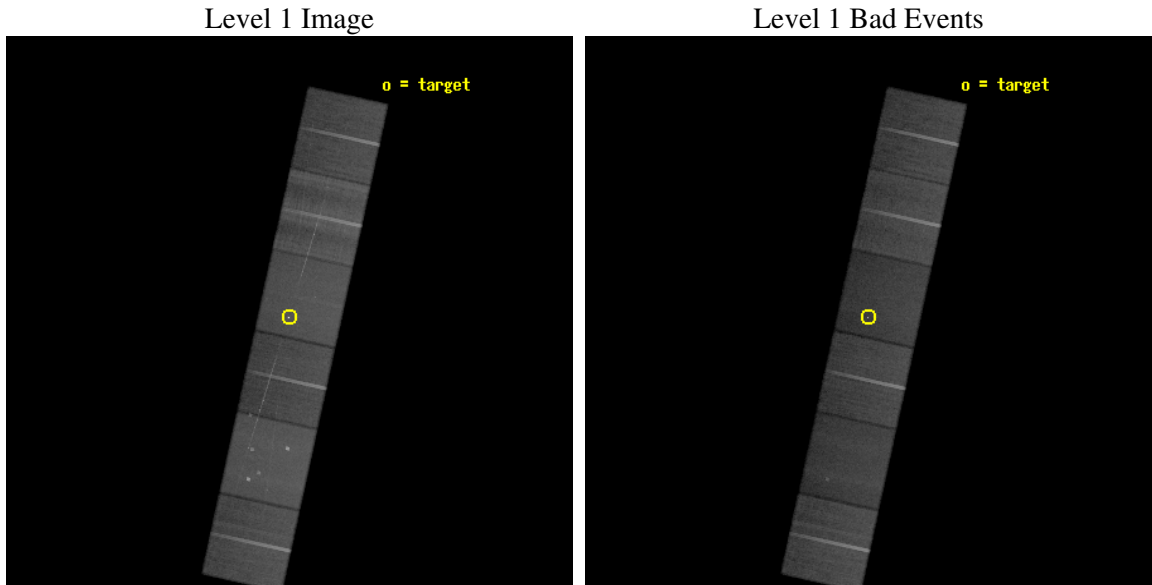
seq_num	200015
obs_id	17
title	AXAF GRATING SPECTROSCOPY OF ACTIVE SINGLE STARS
observer	Dr. Jeffrey Linsky
object	AU MIC
dtcycle	0
cycle	P
ra_targ	311.288875
dec_targ	-31.34
ra_nom	311.2877909011
dec_nom	-31.344485082687
roll_nom	282.45312740364
revision	2
ontime	59561.600055471
livetime	58807.395211879
ontime4	59561.600055471
ontime5	59561.600055471
ontime6	59561.600055471
ontime7	59561.600055471
ontime8	59561.600055471
ontime9	59558.359075308
l2events	714572



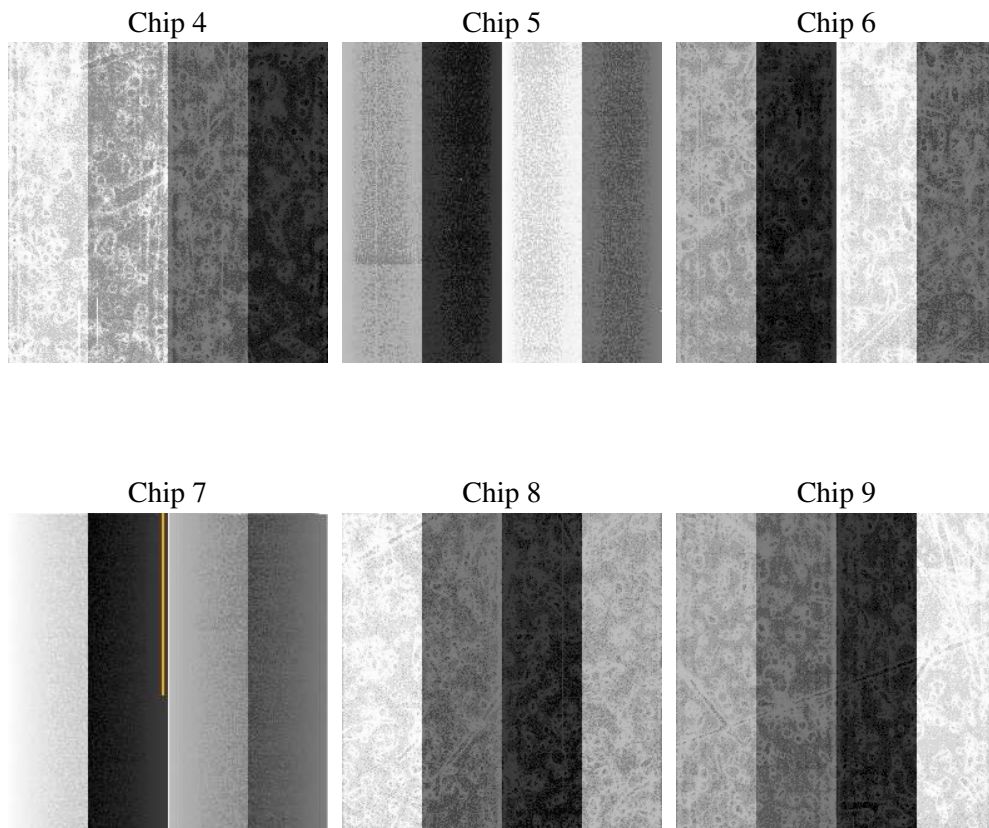
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-16T13:10:25
revision	2

sched_exp_time	59706.263000
ontime	59561.600055471
ontime4	59561.600055471
ontime5	59561.600055471
ontime6	59561.600055471
ontime7	59561.600055471
ontime8	59561.600055471
ontime9	59558.359075308
l1events	2866432

2.1.4 Events

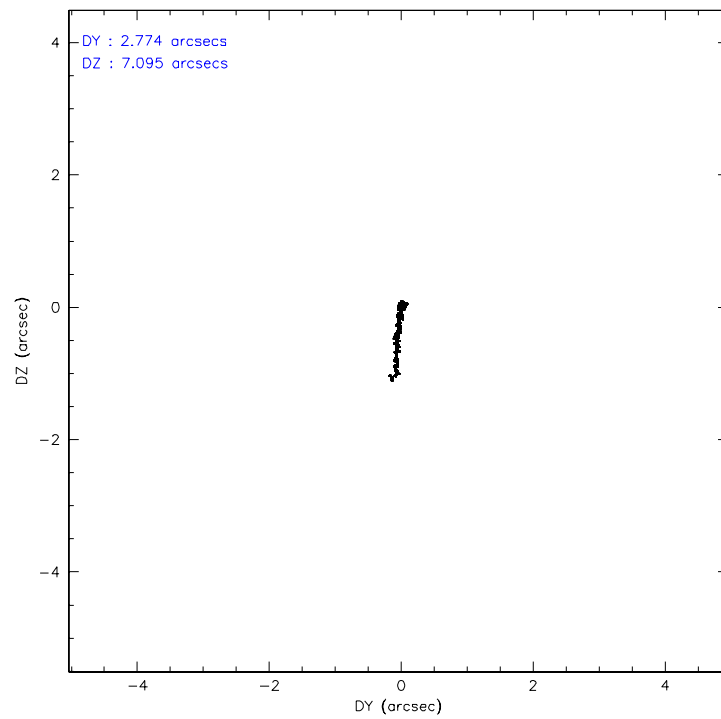
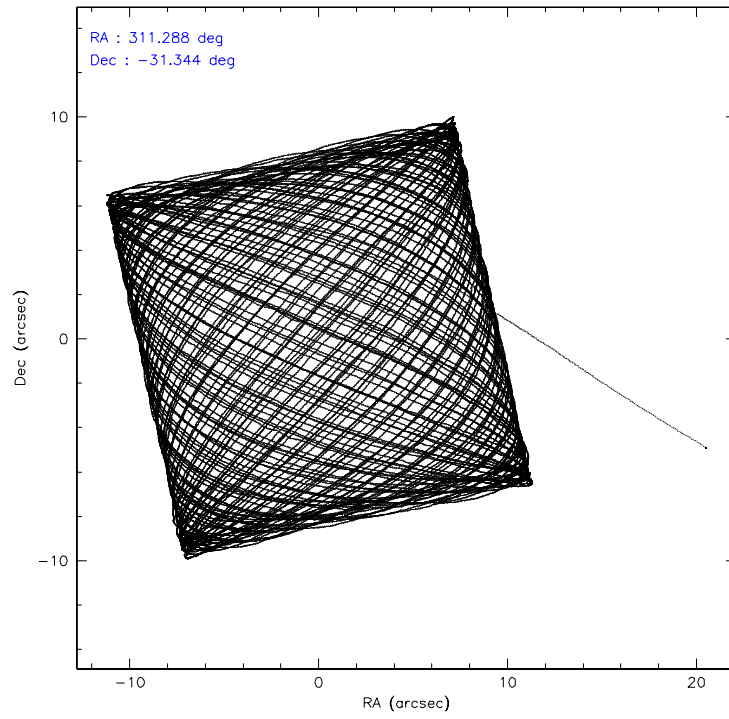
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	450993	546446	412707	507554	547832	400900
rejected events	387678	278027	348015	270022	385700	340131
rejected %	85%	50%	84%	53%	70%	84%

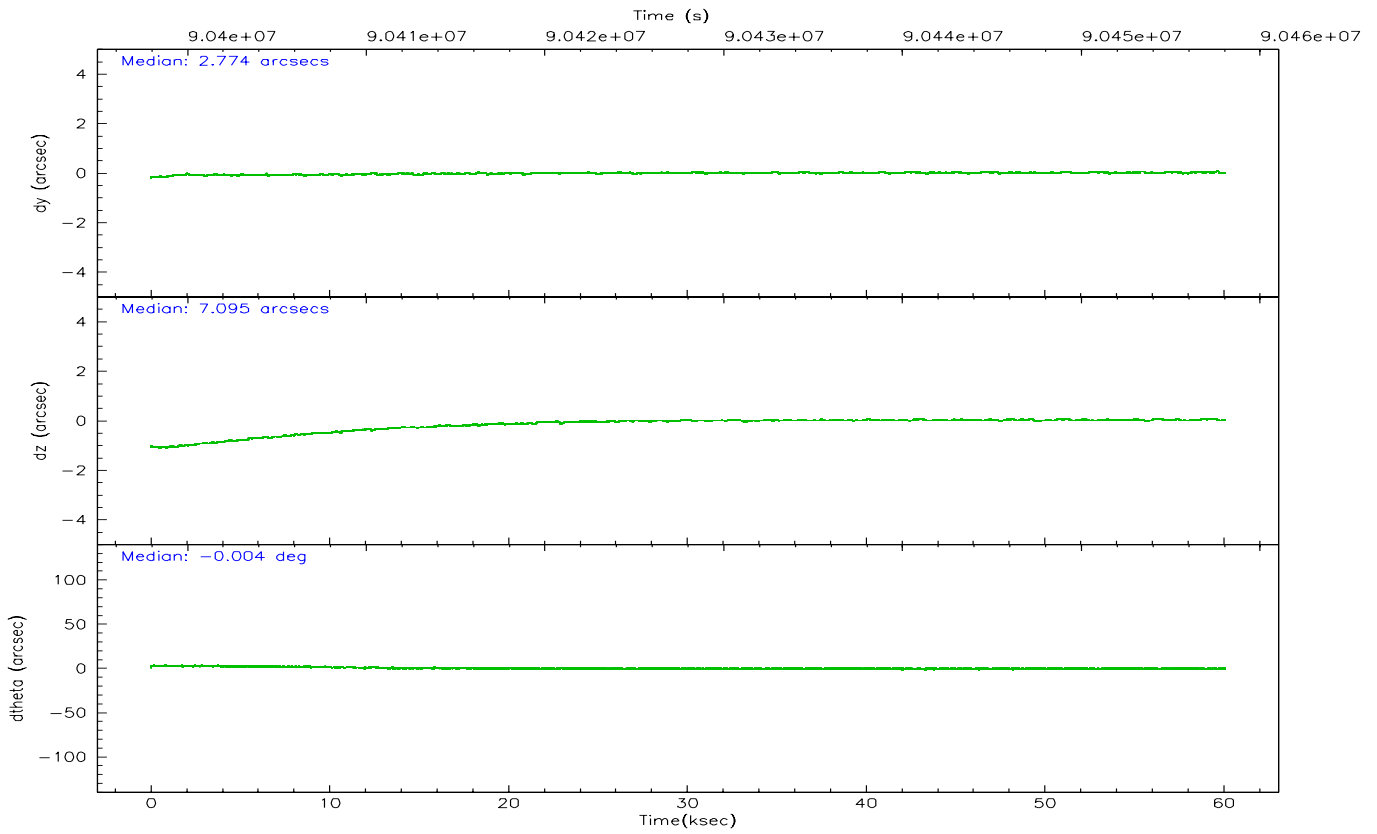
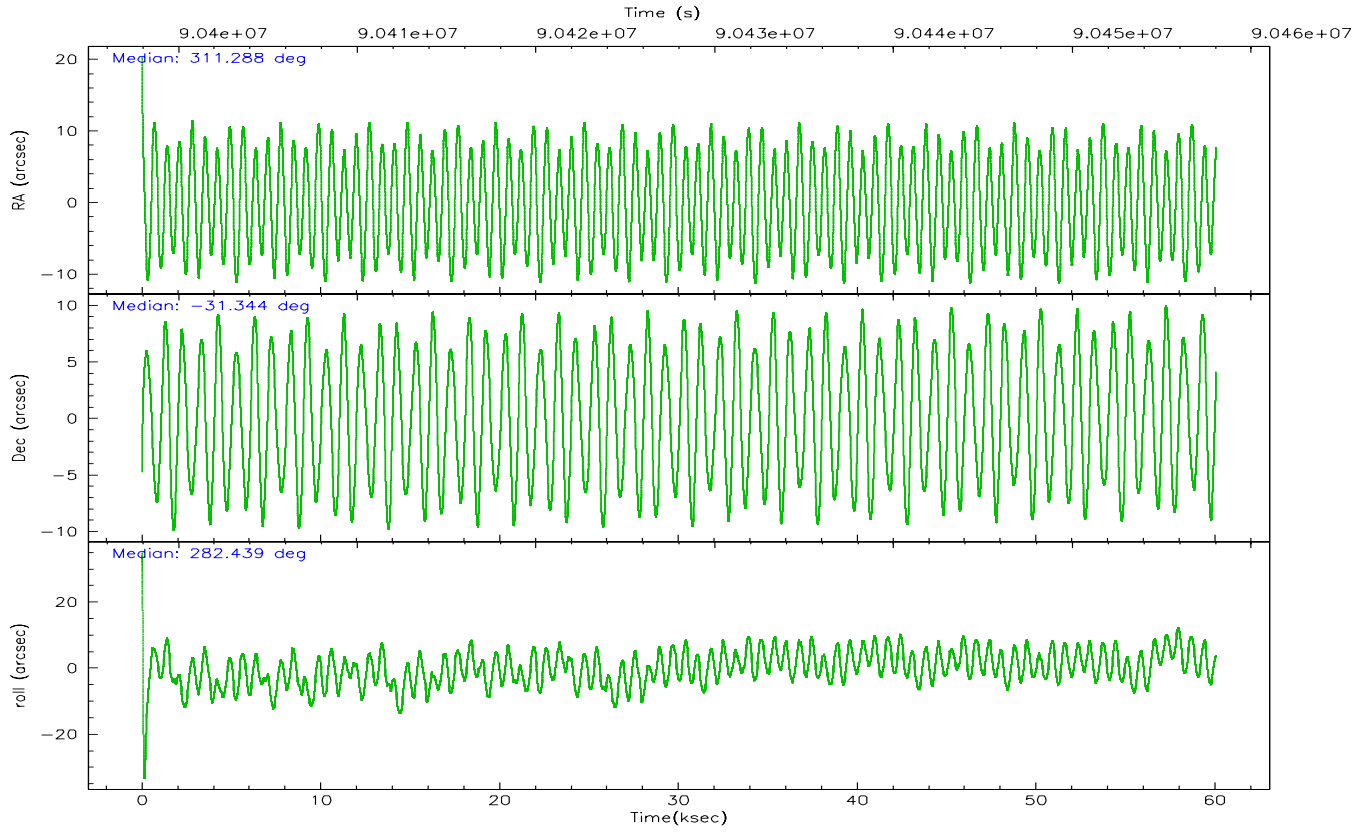
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	30041	29490	32873	25392	59743	28822
	6%	5%	7%	5%	10%	7%
grade 1 events	257	681	239	671	451	212
	0%	0%	0%	0%	0%	0%
grade 2 events	14381	82661	11556	47299	28959	11569
	3%	15%	2%	9%	5%	2%
grade 3 events	4851	11795	4861	21990	19476	4988
	1%	2%	1%	4%	3%	1%
grade 4 events	4719	11429	4998	21524	17881	4962
	1%	2%	1%	4%	3%	1%
grade 5 events	12746	38238	14676	45143	19362	15323
	2%	6%	3%	8%	3%	3%
grade 6 events	9329	133080	10412	121352	36103	10435
	2%	24%	2%	23%	6%	2%
grade 7 events	374669	239072	333092	224183	365857	324589
	83%	43%	80%	44%	66%	80%

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	311.266006	311.2877909011042	Subarray requested	NONE	NONE
Pointing Dec	-31.324439	-31.34448508268701	Alternating exposures requested	N	N
Pointing Roll	282.285156	282.4531274036422	Primary exposure time	3.200000	3.2
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			
Observation start time	90398334.184000	90397272.562047			
Observation start date	2000-11-12T06:37:50	2000-11-12T06:21:12			
Observation end time	90458040.184000	90458355.389375			
Observation end date	2000-11-12T23:12:56	2000-11-12T23:19:15			
Read mode	TIMED	TIMED			

2.3 Aspect



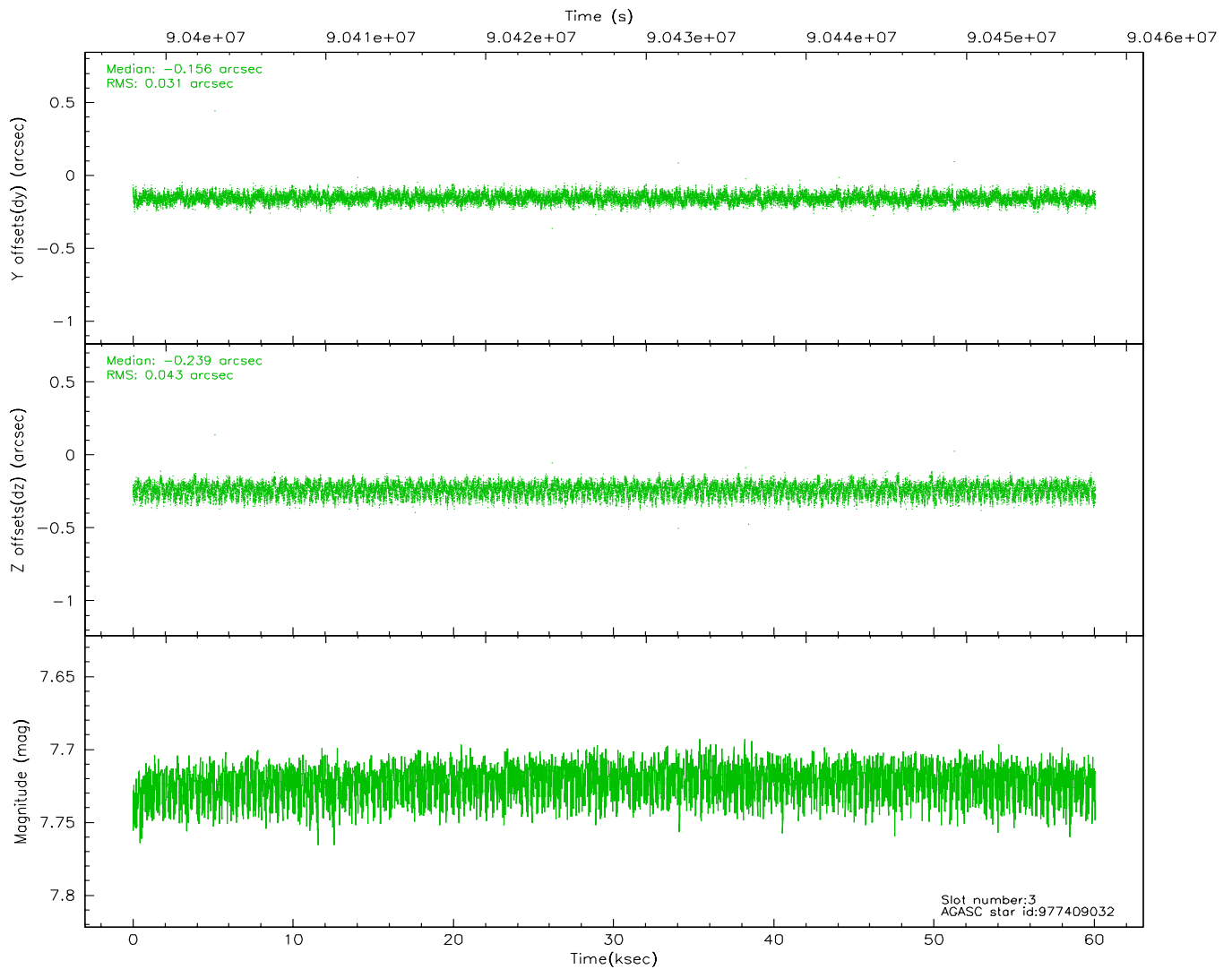
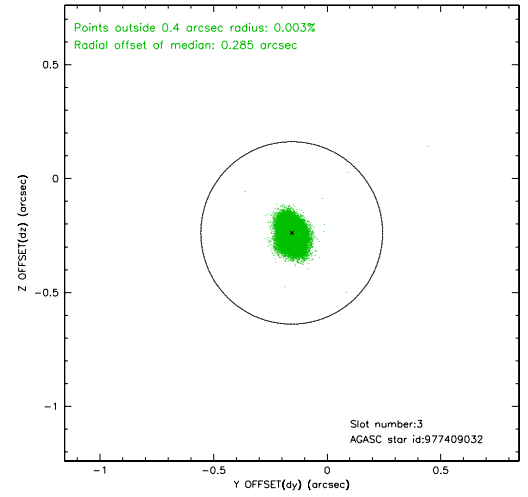
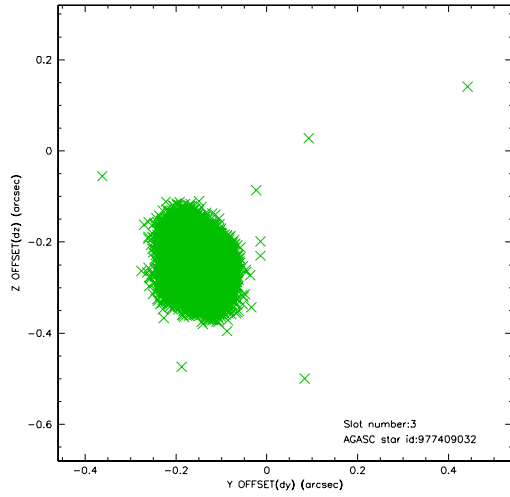


Slot Statistics

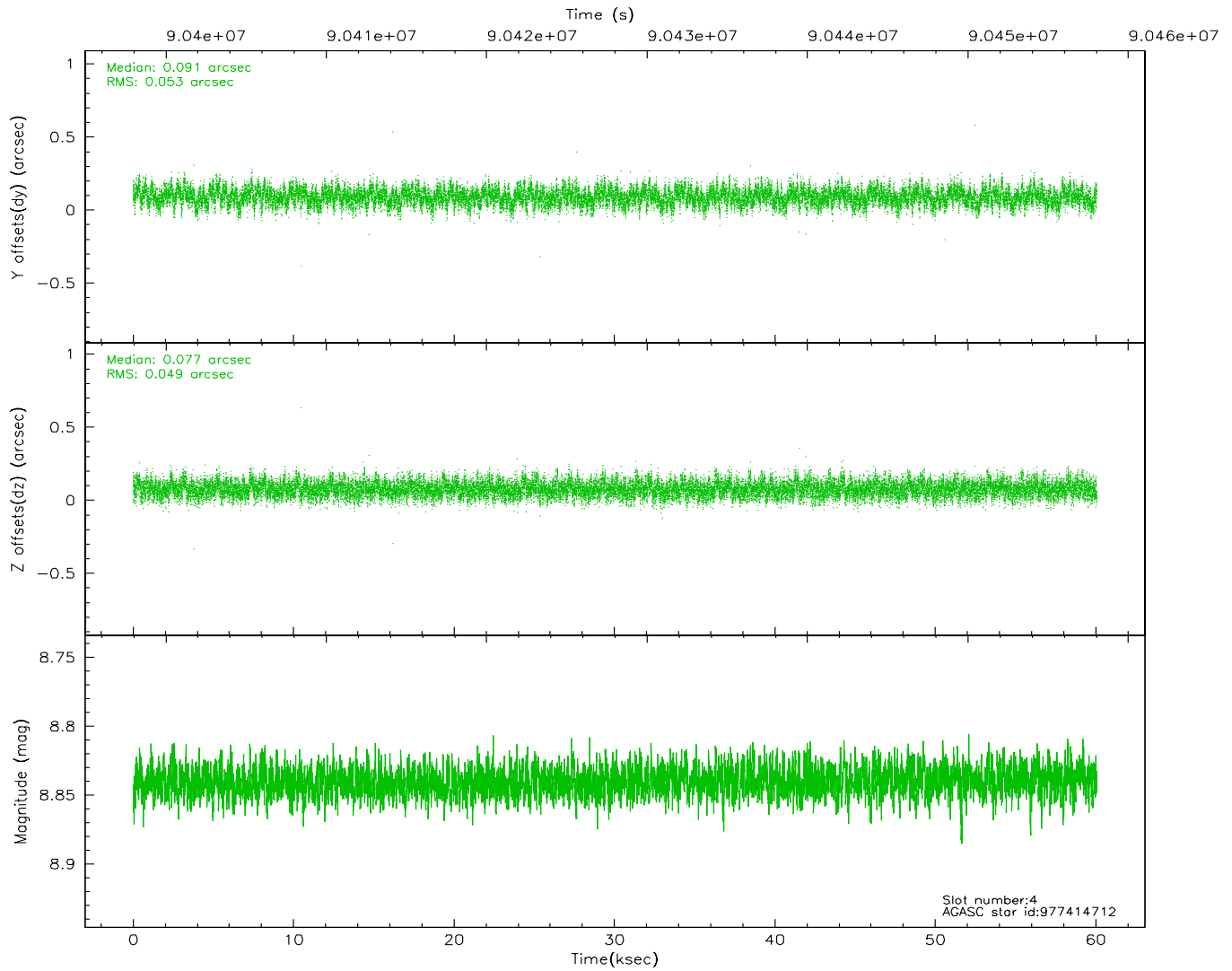
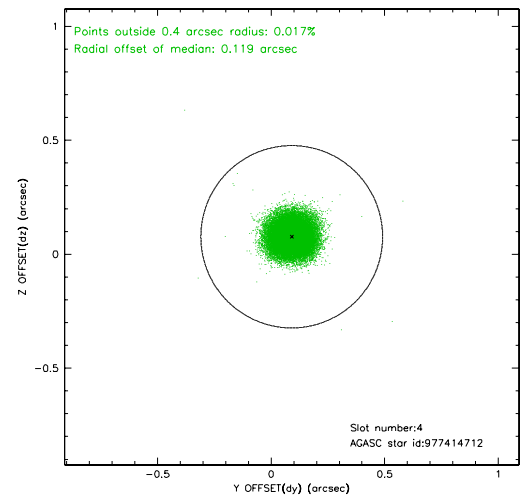
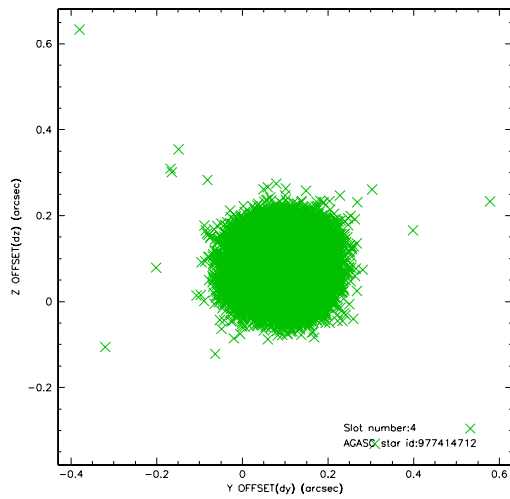
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	14654	-0.032	-0.026	0.011	0.022	0.000000	0.000000	-755.22	-1790.26
1	FID	ACIS-S-4	7.19	14651	-0.043	0.022	0.008	0.015	0.000000	0.000000	2158.06	118.32
2	FID	ACIS-S-5	7.23	14650	0.043	0.011	0.012	0.023	0.000000	0.000000	-1808.05	111.92
3	GUIDE	977409032	7.72	29302	-0.156	-0.239	0.056	0.091	311.289707	-31.340900	74.65	58.78
4	GUIDE	977414712	8.84	29294	0.091	0.077	0.078	0.124	311.577379	-31.522390	901.89	782.30
5	GUIDE	977416336	8.88	29296	-0.024	0.130	0.076	0.119	311.811088	-31.455987	823.70	1534.60
6	GUIDE	977410824	9.77	29226	-0.010	-0.071	0.098	0.161	310.994327	-31.559821	652.98	-994.42
7	GUIDE	977410600	9.41	29292	0.104	0.103	0.092	0.154	311.969215	-31.533404	1201.62	1947.41

2.4 Star Slots

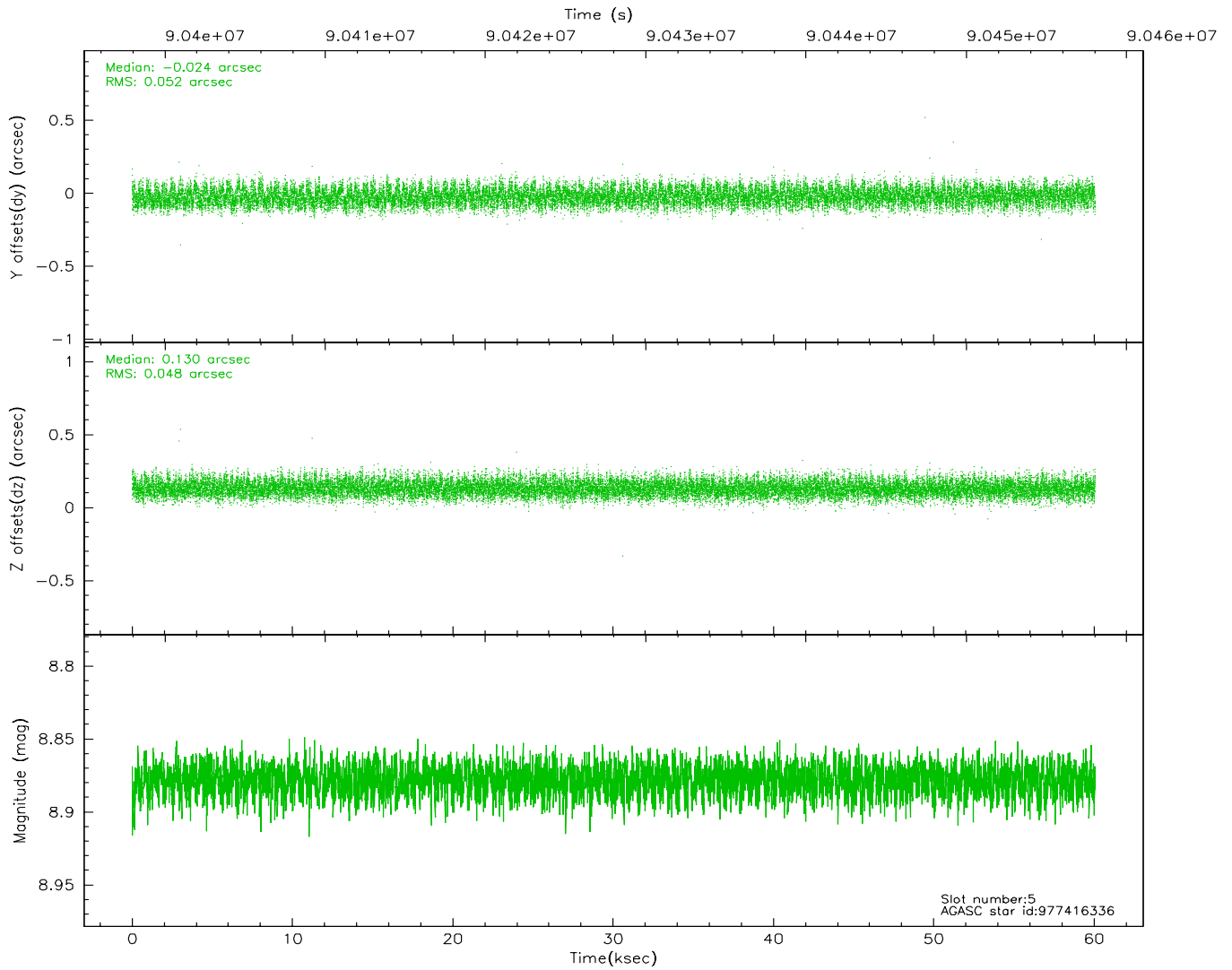
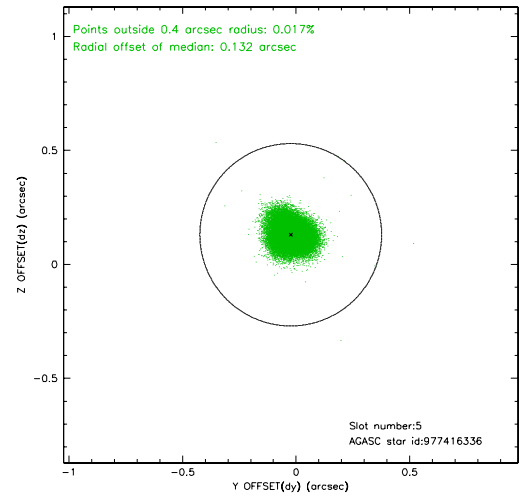
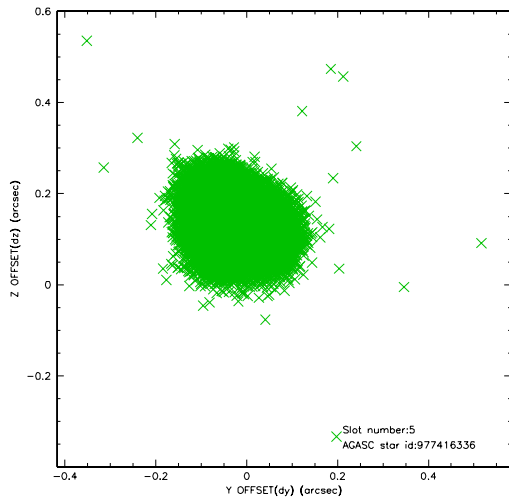
2.4.1 Slot 3



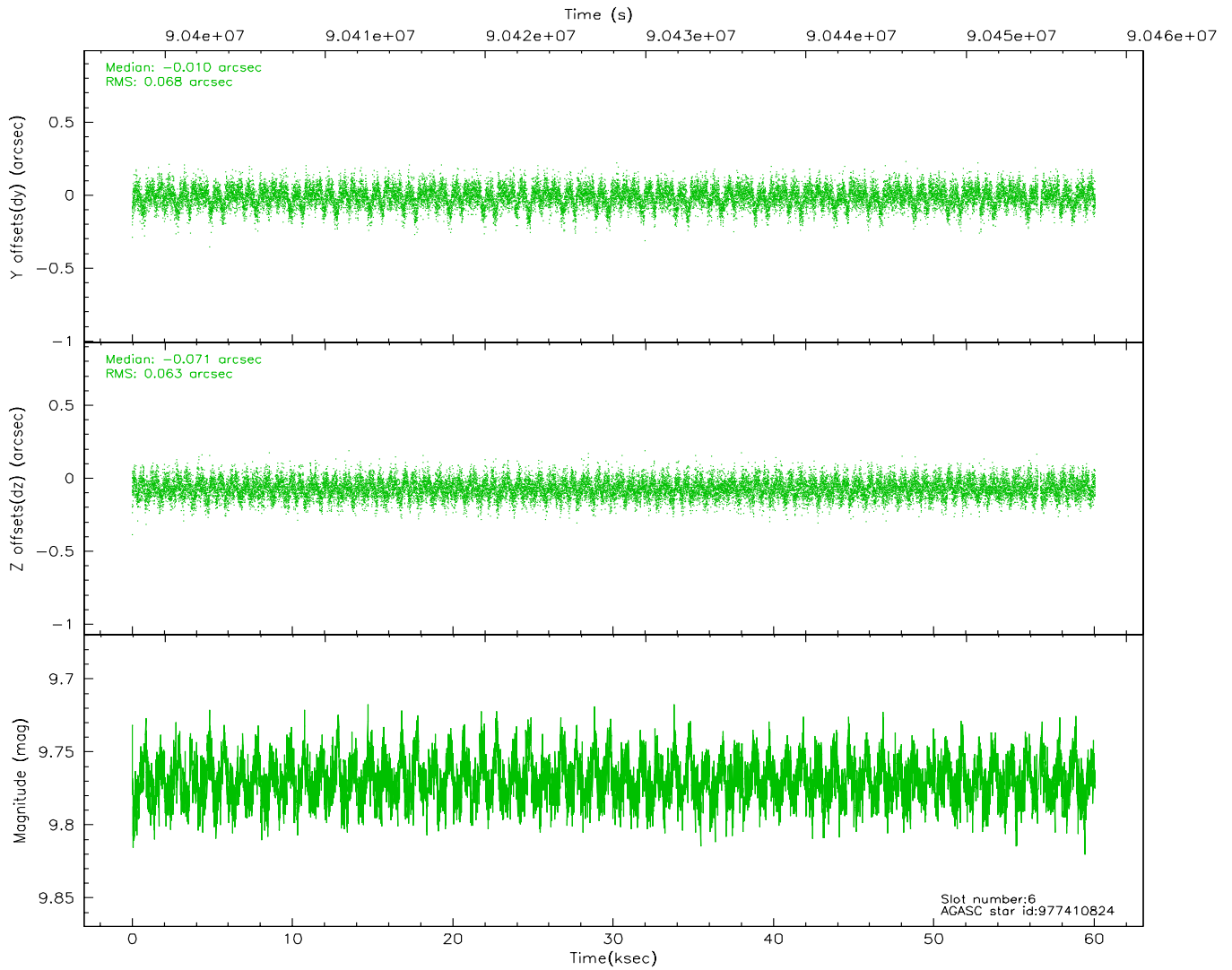
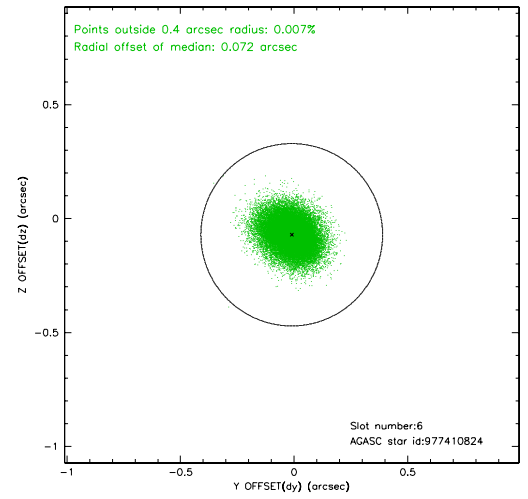
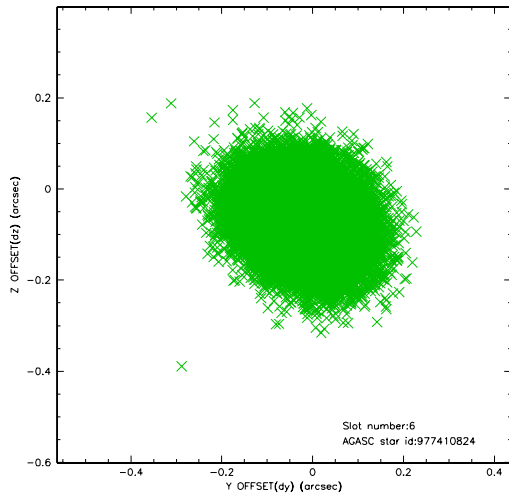
2.4.2 Slot 4



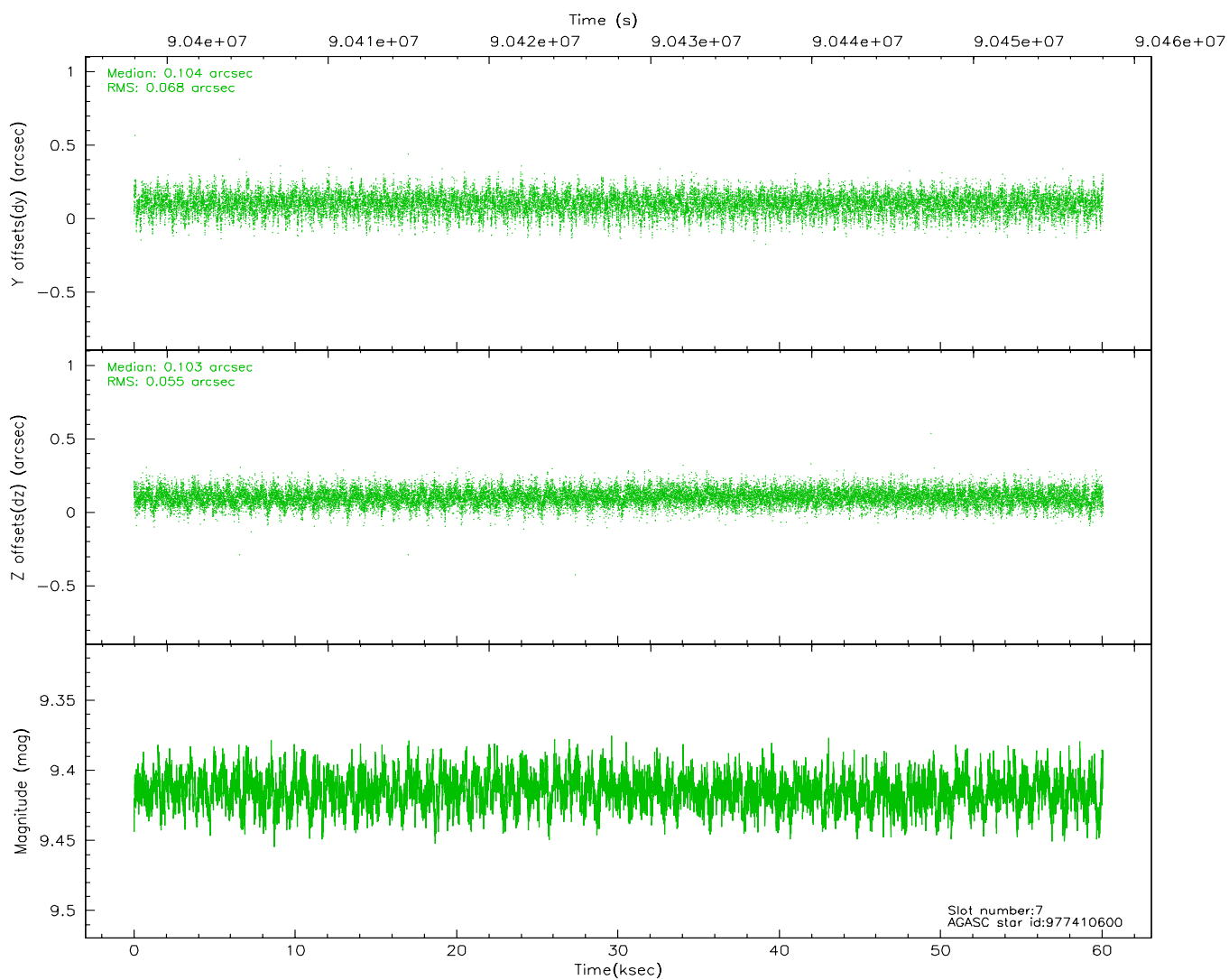
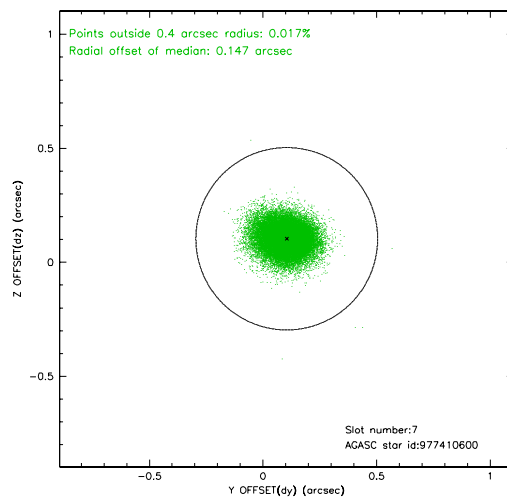
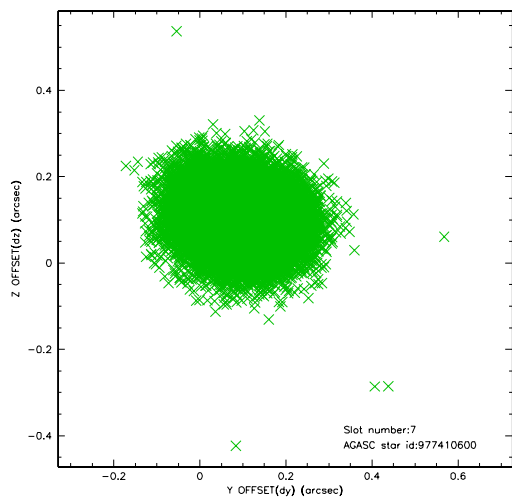
2.4.3 Slot 5



2.4.4 Slot 6

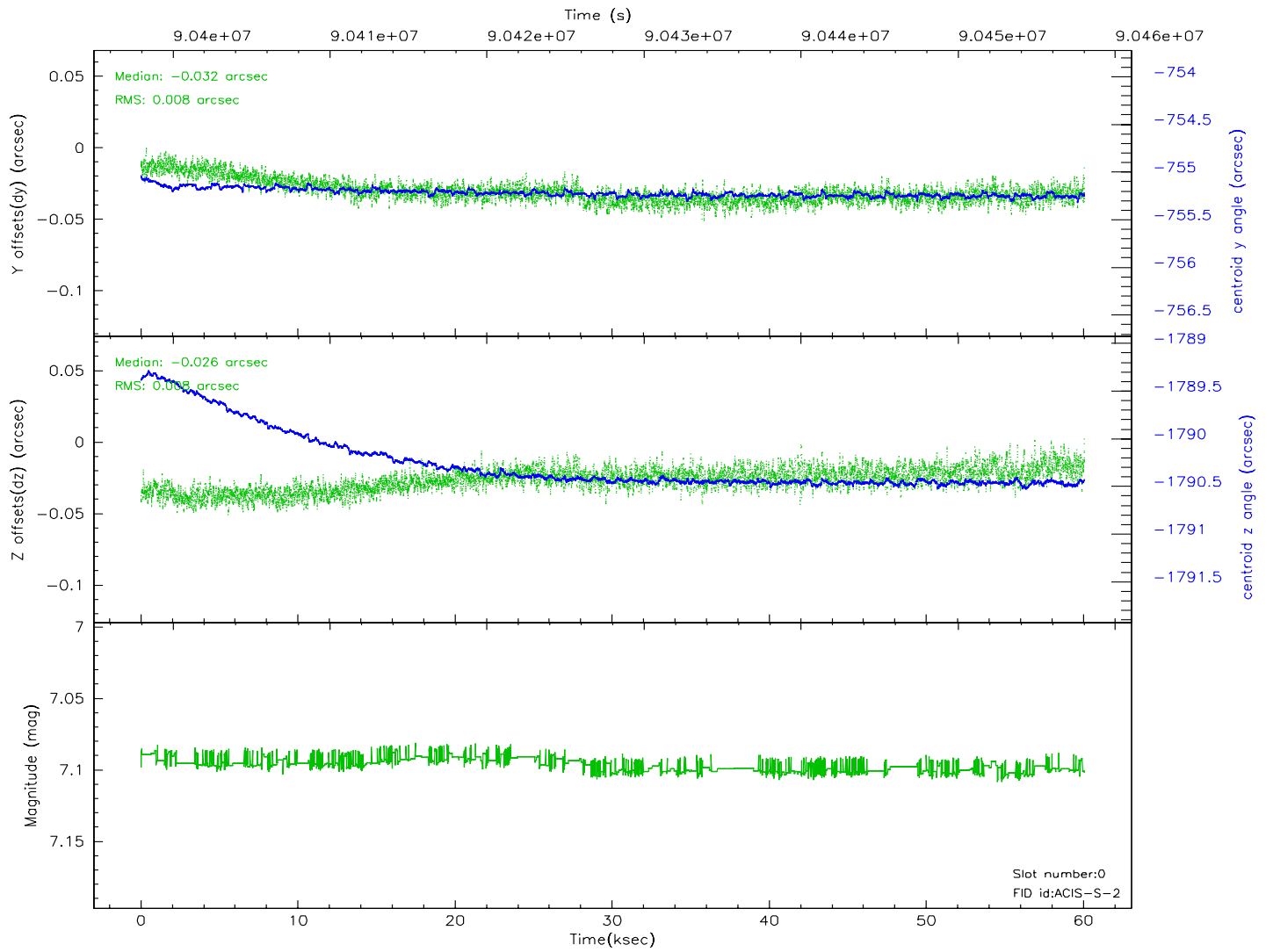
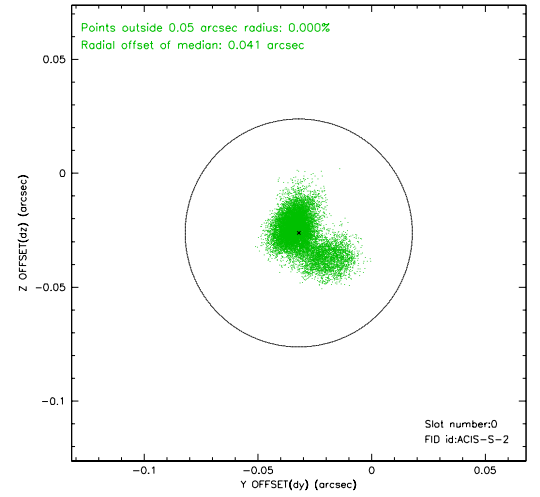
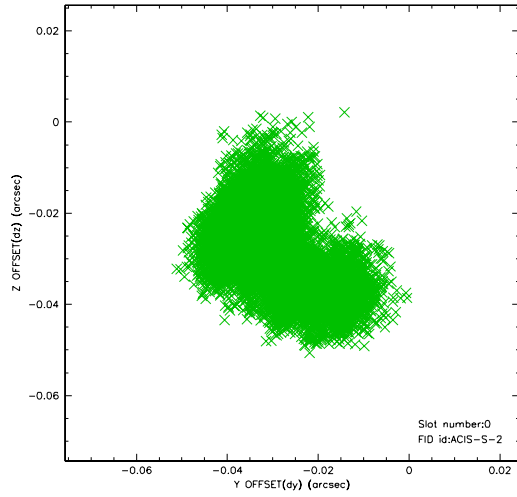


2.4.5 Slot 7

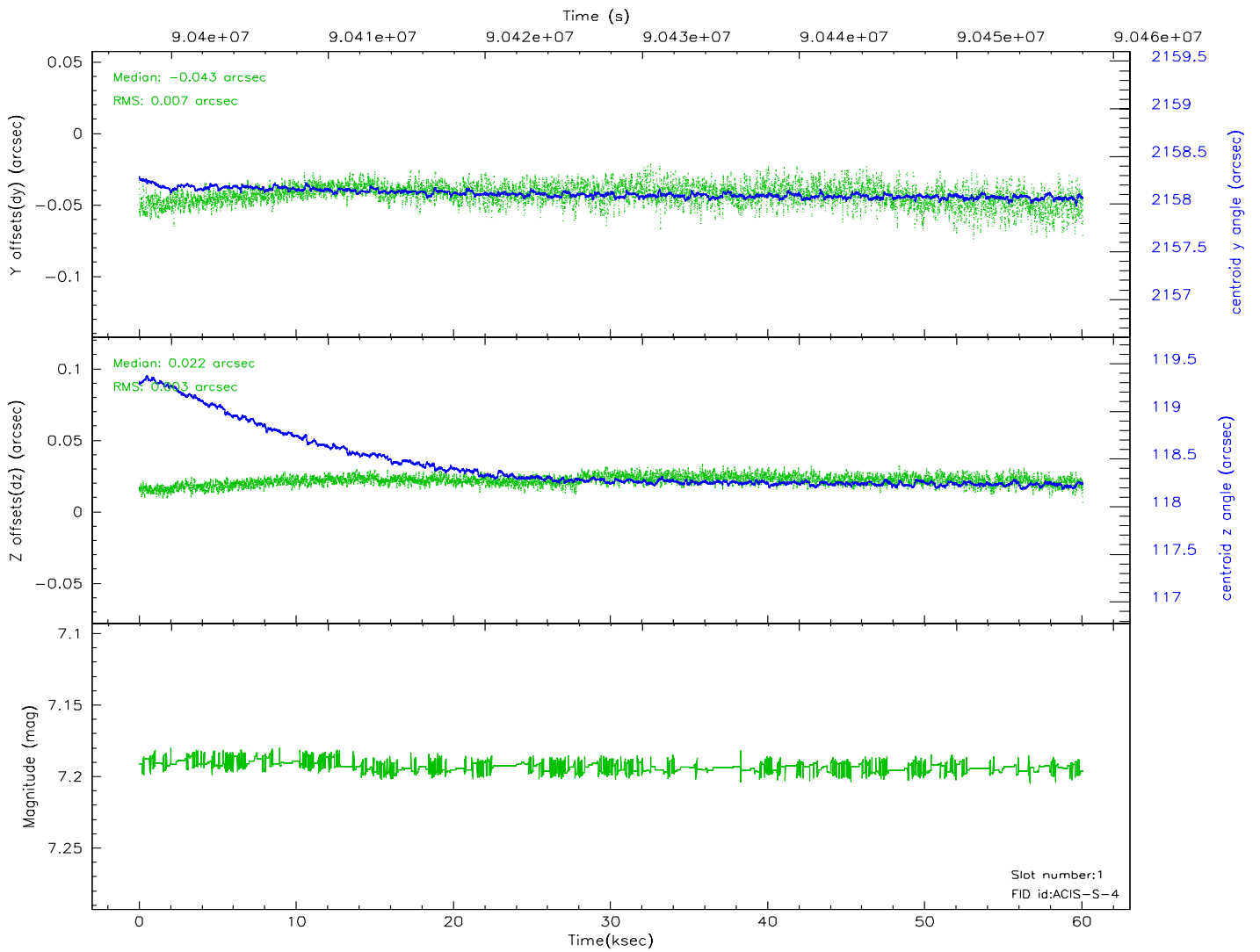
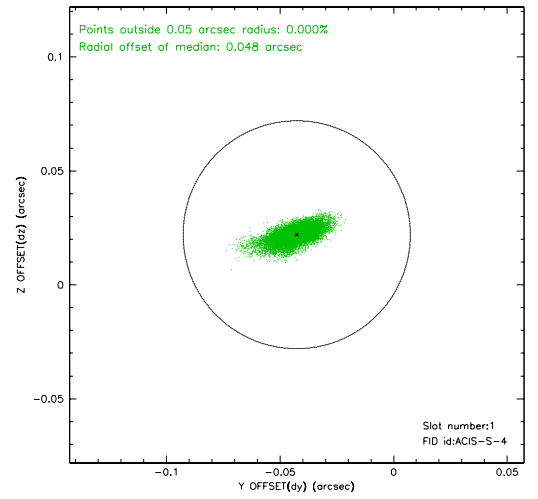
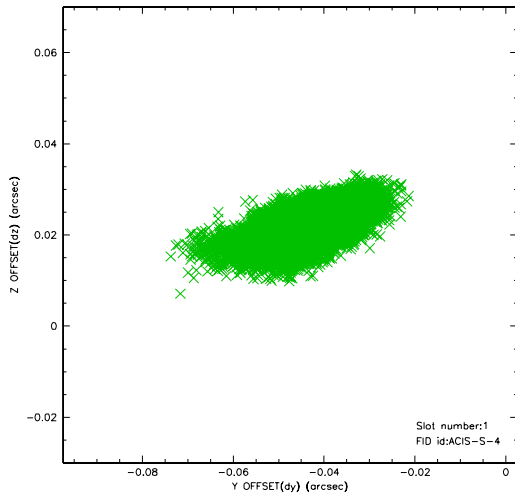


2.5 FID Slots

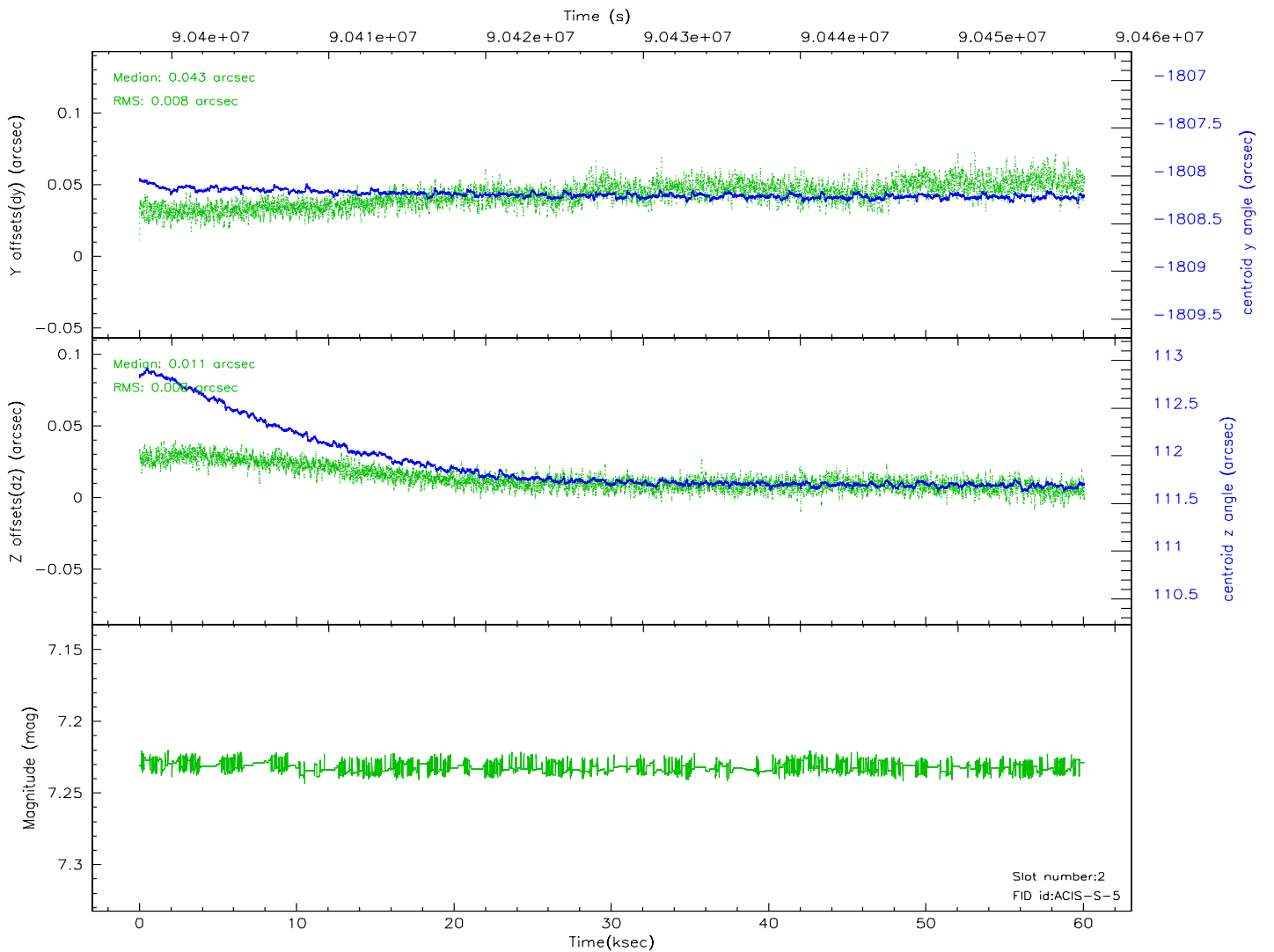
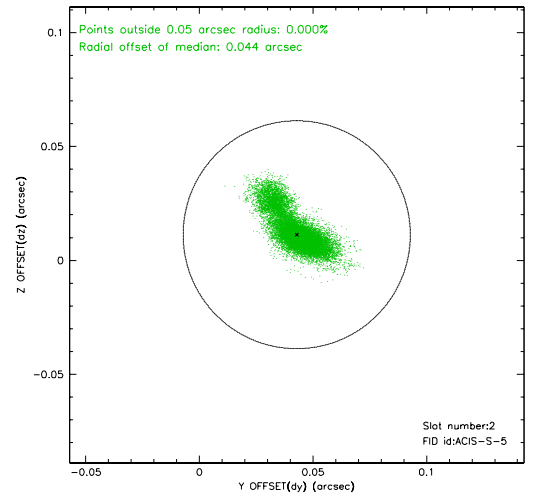
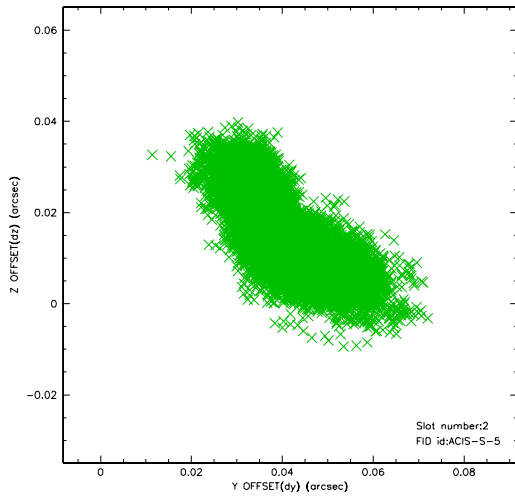
2.5.1 Slot 0



2.5.2 Slot 1

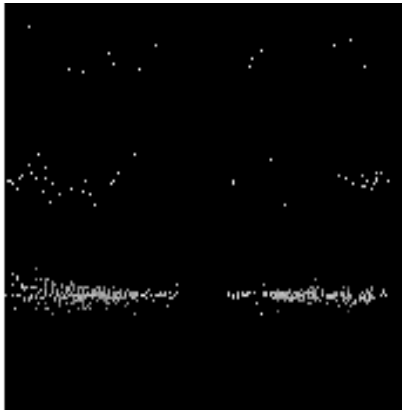


2.5.3 Slot 2

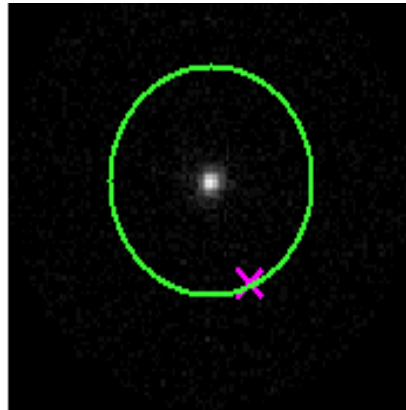


3 Gratings

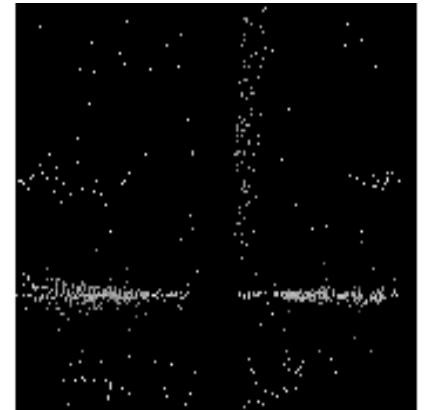
3.1 HEG Arm



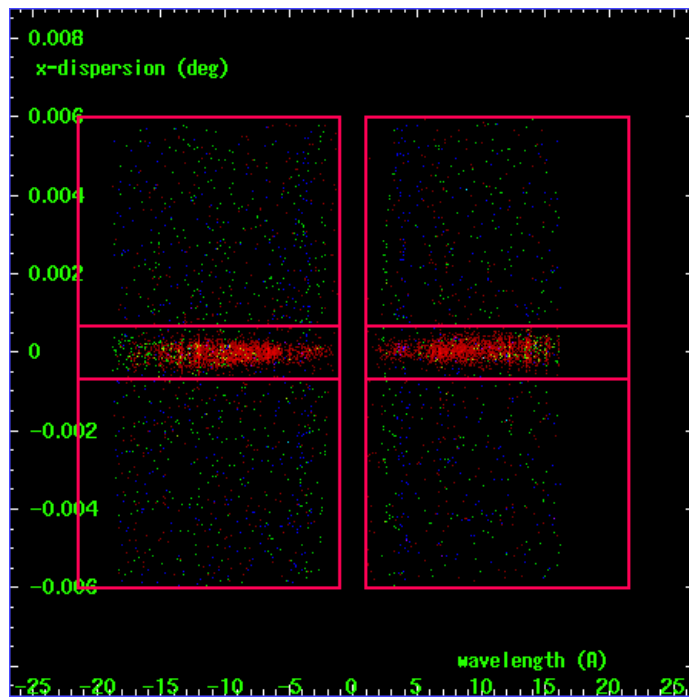
HEG Order Sort 123



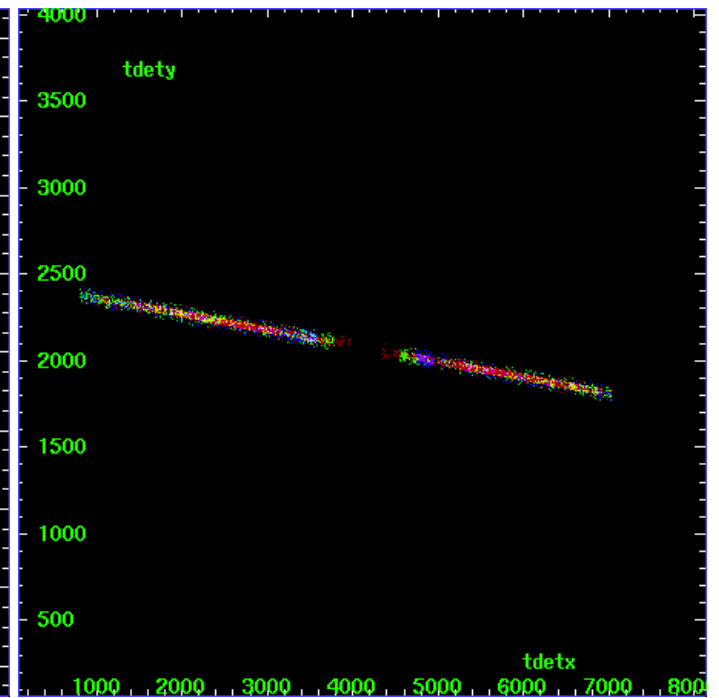
HEG Zero Order



HEG Order Sort ALL

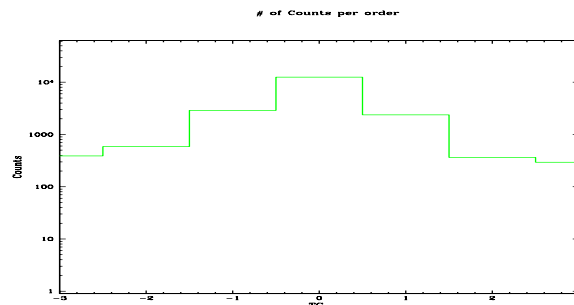


Spot Image HEG

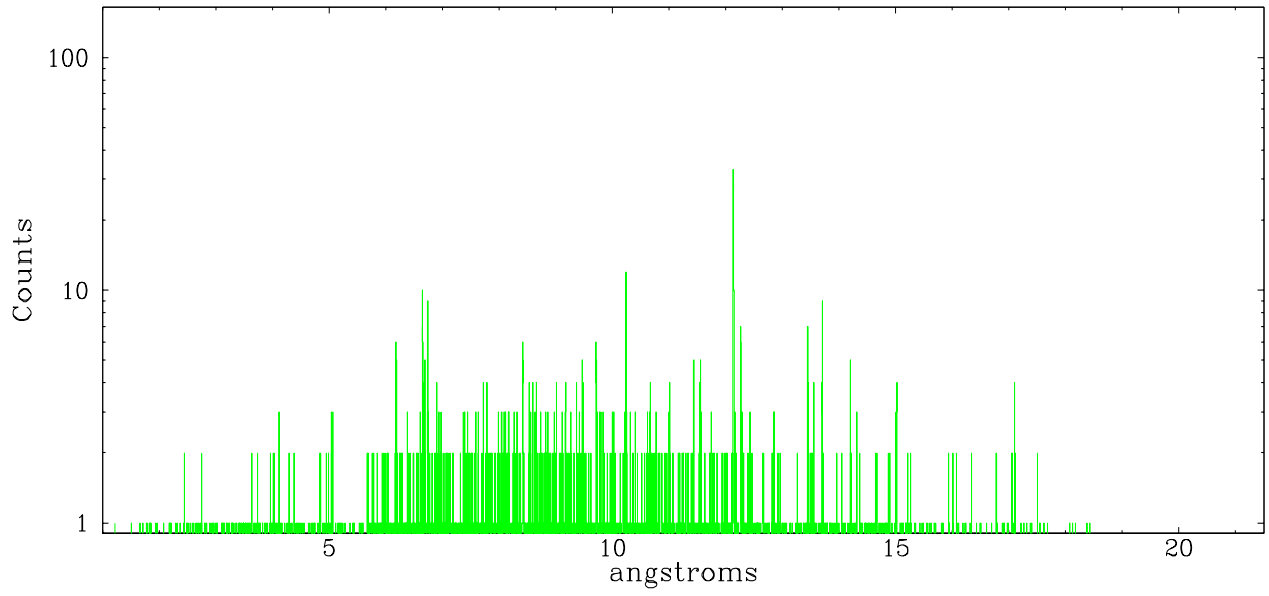


Full Detector HEG

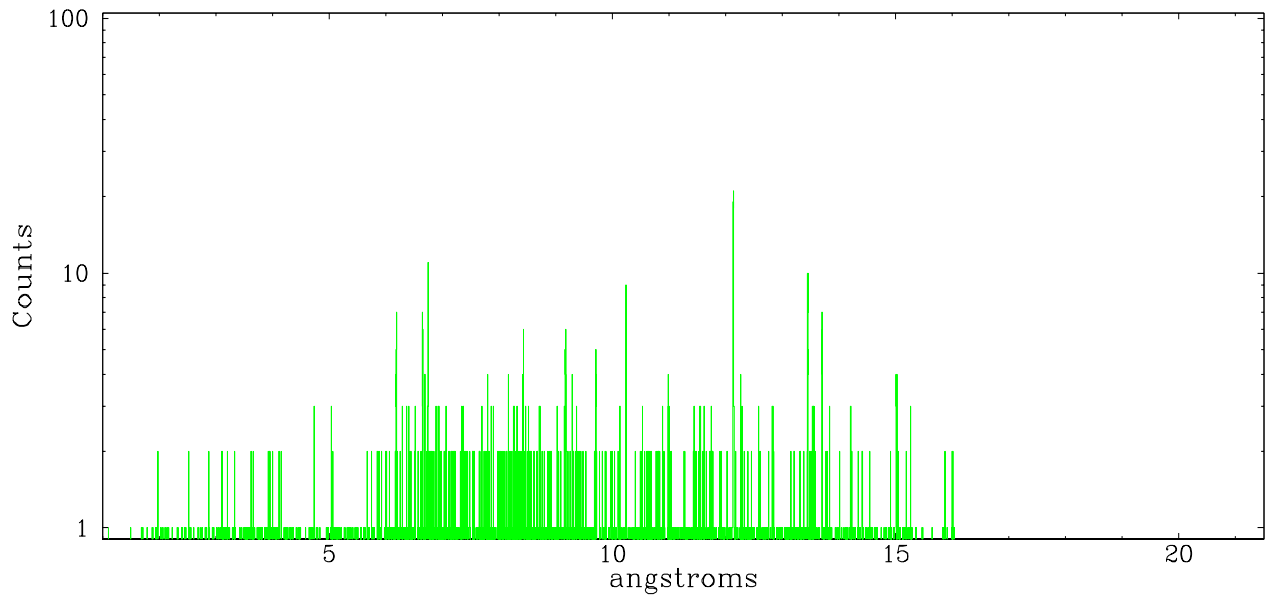
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	389	588	2889	12503	2375	364	293



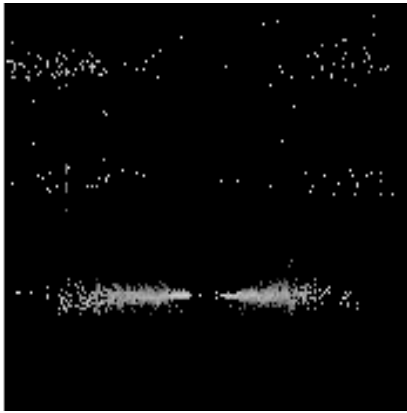
heg order -1



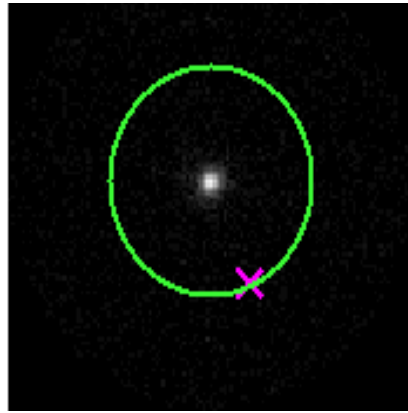
heg order +1



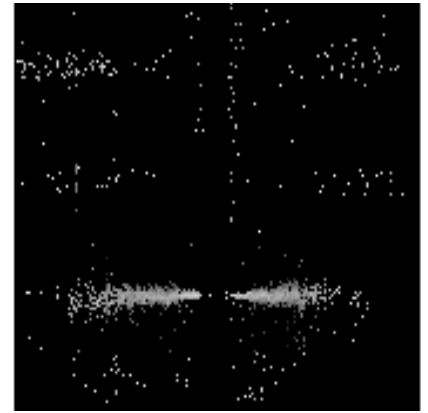
3.2 MEG Arm



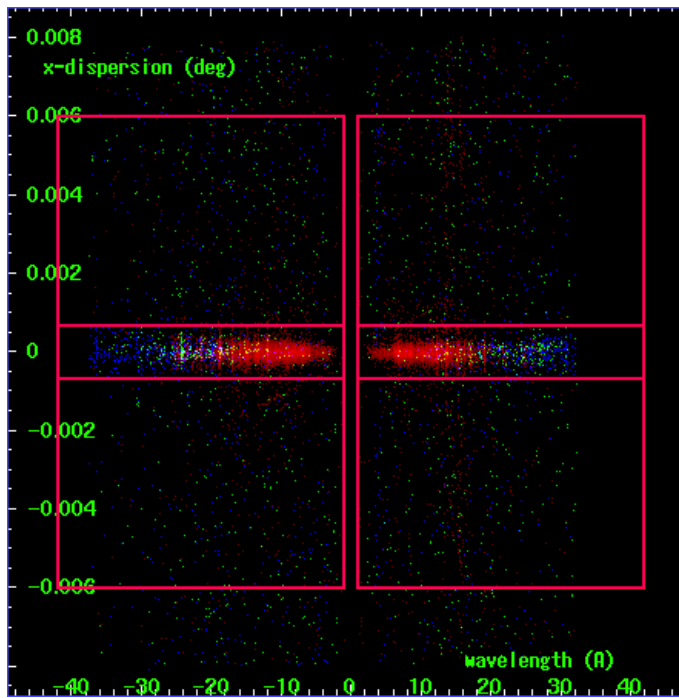
MEG Order Sort 123



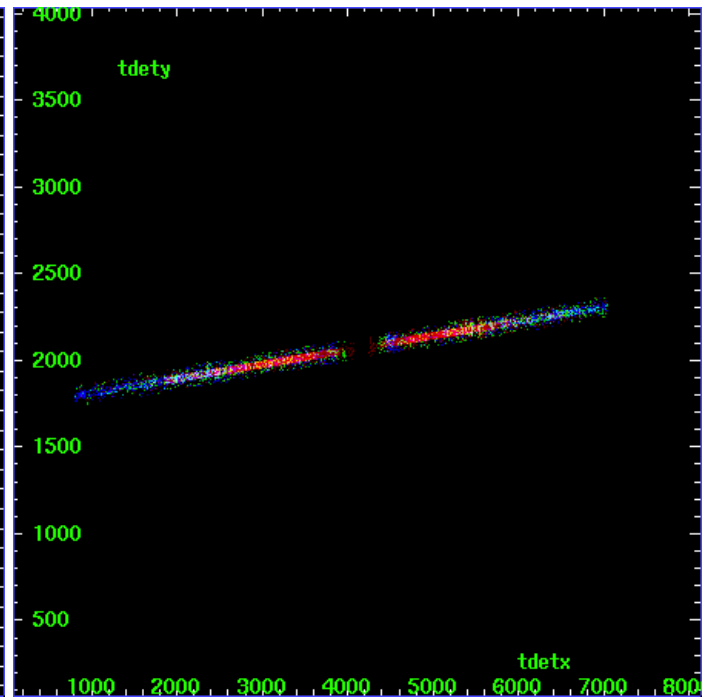
MEG Zero Order



MEG Order Sort ALL

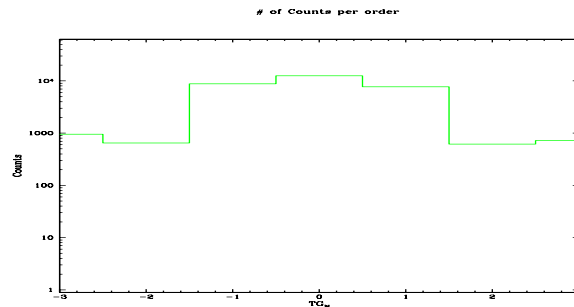


Spot Image MEG

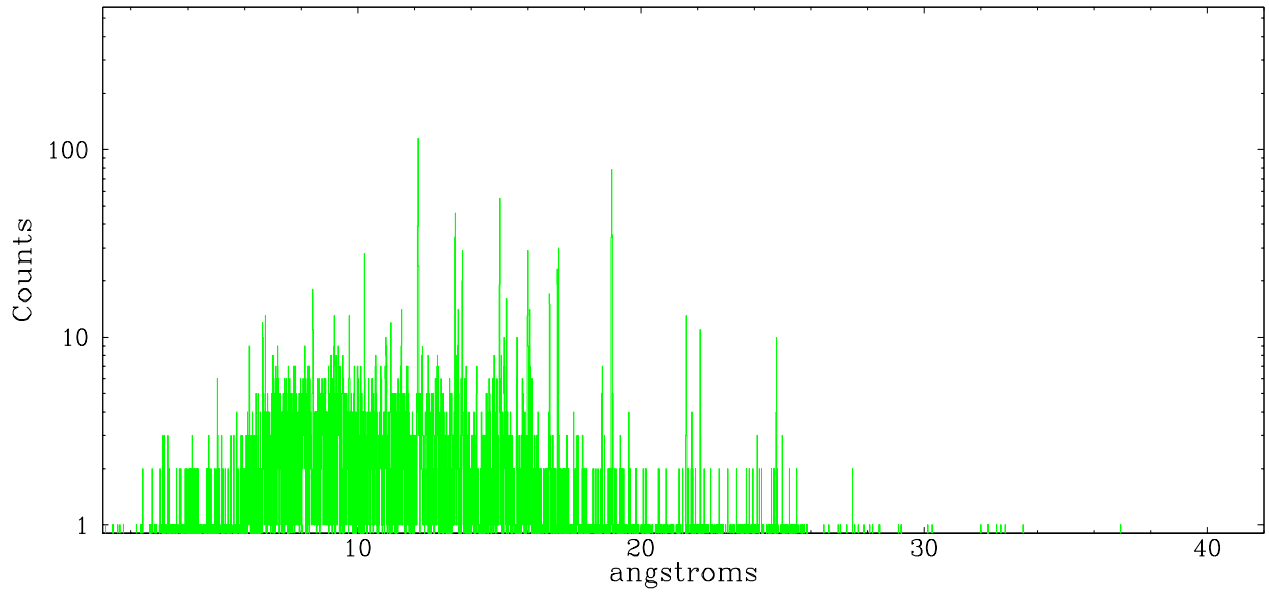


Full Detector MEG

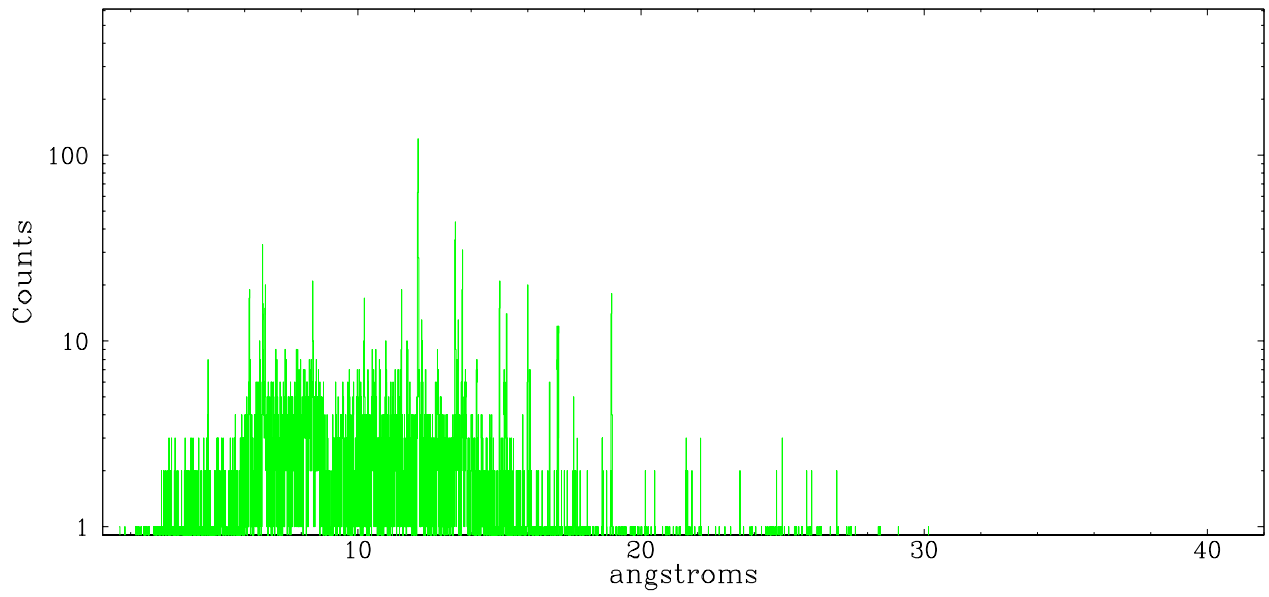
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	955	646	8766	12503	7732	616	721



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2007.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	59.564

A.2 Comments