

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6285 - L2 Version 002
Chandra X-Ray Center

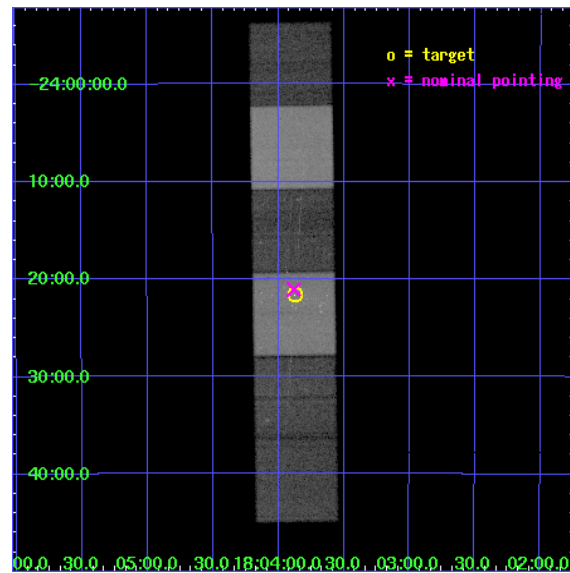
L2 Processing Date : Mar 10 2006

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

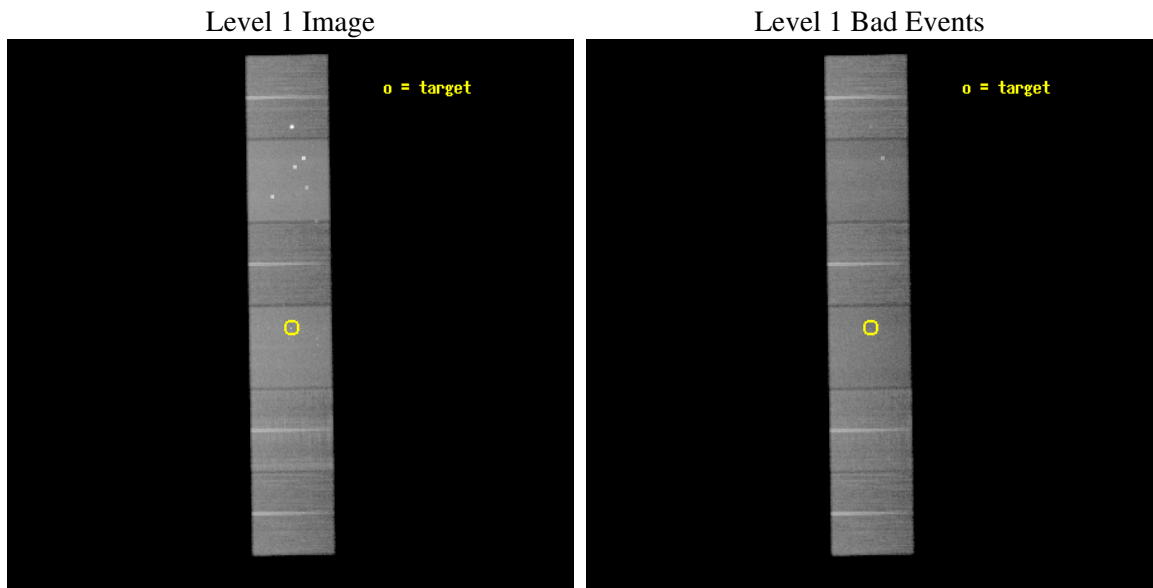
seq_num	200333
obs_id	6285
title	A Chandra HETGS Survey of O-Stars
observer	Dr. Wayne Waldron
object	9 Sgr
dtcycle	0
cycle	P
ra_targ	270.968333
dec_targ	-24.360722
ra_nom	270.97034512323
dec_nom	-24.351196460768
roll_nom	89.157455902699
revision	2
ontime	45174.399831712
livetime	44602.374380285
ontime4	45174.399831712
ontime5	45174.399831712
ontime6	45174.399831712
ontime7	45174.399831712
ontime8	45174.399831712
ontime9	45174.399831712
l2events	554694



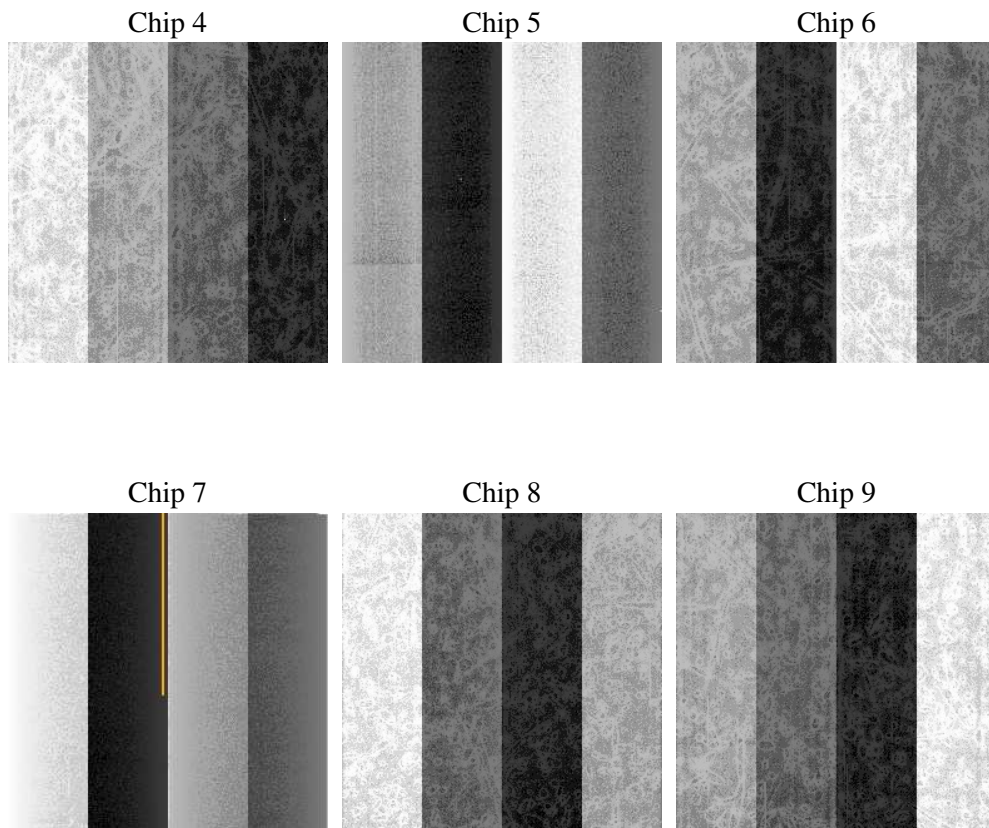
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-03-10T06:23:14
revision	2

sched_exp_time	45000.000000
ontime	45623.698122203
ontime4	45623.698122203
ontime5	45623.698122203
ontime6	45623.698102295
ontime7	45623.698122203
ontime8	45623.698102295
ontime9	45623.698102295
l1events	2584278

2.1.4 Events

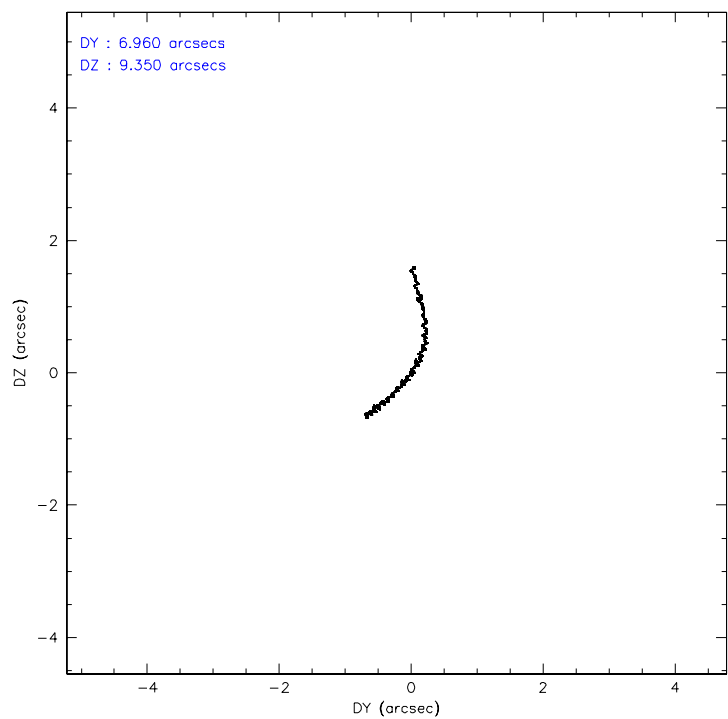
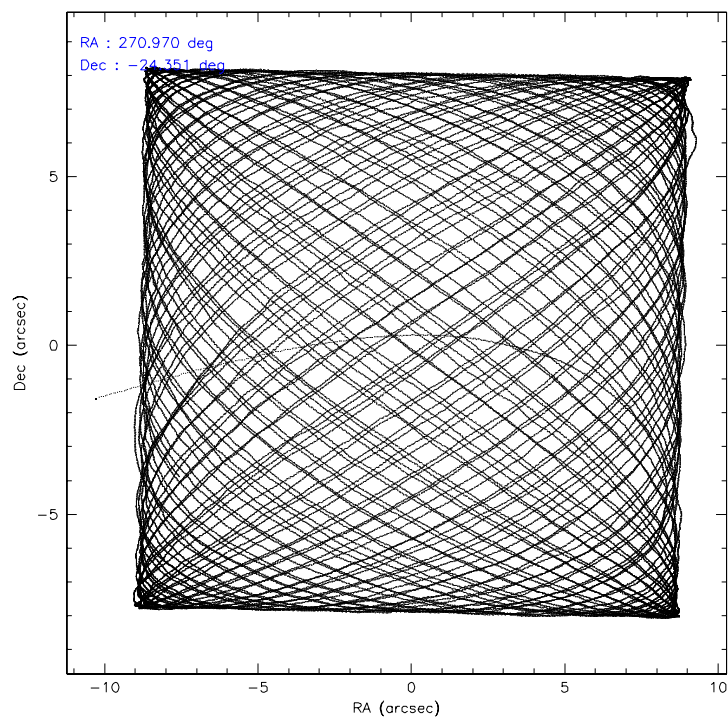
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	402276	537574	356413	482476	451984	353555
rejected events	345232	297555	311579	297581	353569	309654
rejected %	85%	55%	87%	61%	78%	87%

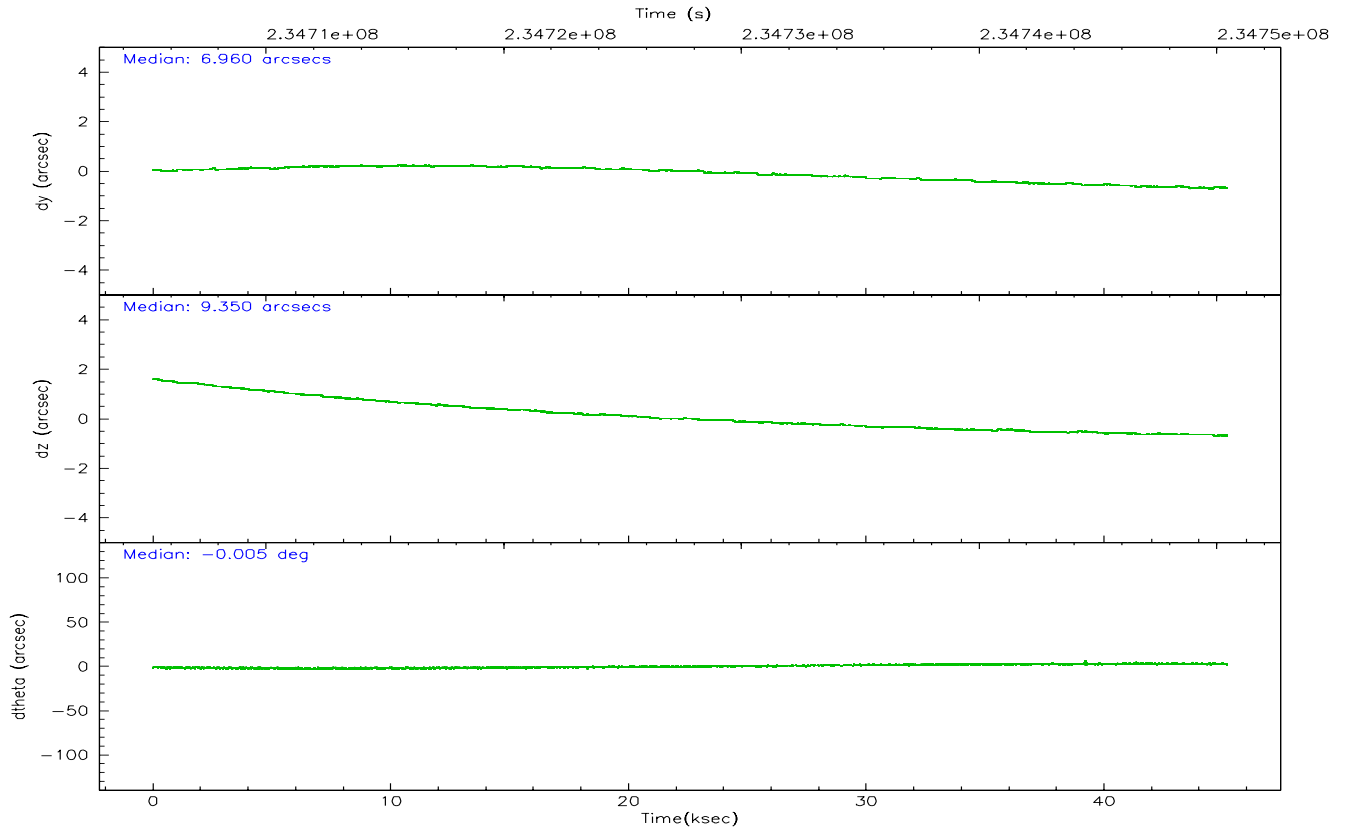
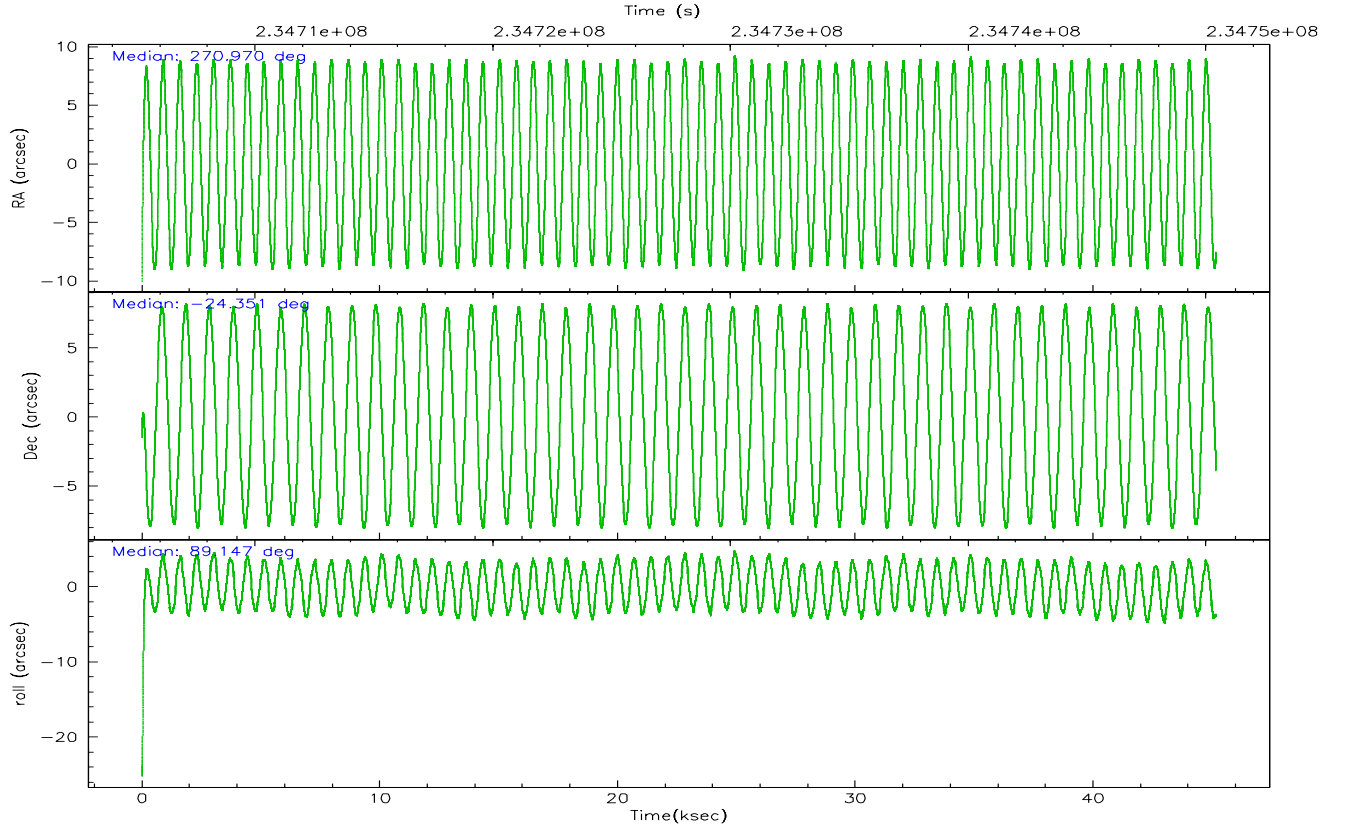
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	32819	25554	19042	10722	33190	18689
	8%	4%	5%	2%	7%	5%
grade 1 events	438	864	182	313	323	220
	0%	0%	0%	0%	0%	0%
grade 2 events	9146	73728	9033	46812	21388	8678
	2%	13%	2%	9%	4%	2%
grade 3 events	4497	5236	4305	9666	10548	4413
	1%	0%	1%	2%	2%	1%
grade 4 events	4353	5017	4222	9180	9819	4190
	1%	0%	1%	1%	2%	1%
grade 5 events	15995	25416	16149	31637	21531	17147
	3%	4%	4%	6%	4%	4%
grade 6 events	6791	132972	8653	110367	24306	8378
	1%	24%	2%	22%	5%	2%
grade 7 events	328237	268787	294827	263779	330879	291840
	81%	50%	82%	54%	73%	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	NONE	NONE
Pointing RA	270.985268	270.9703451232276	Alternating exposures requested	N	N
Pointing Dec	-24.374780	-24.3511964607675	Primary exposure time	0.000000	3.2
Pointing Roll	89.006987	89.15745590269928			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	234705433.184000	234704083.79957			
Observation start date	2005-06-09T11:56:09	2005-06-09T11:34:43			
Observation end time	234750433.184000	234750990.36421			
Observation end date	2005-06-10T00:26:09	2005-06-10T00:36:30			
Read mode	TIMED	TIMED			

2.3 Aspect



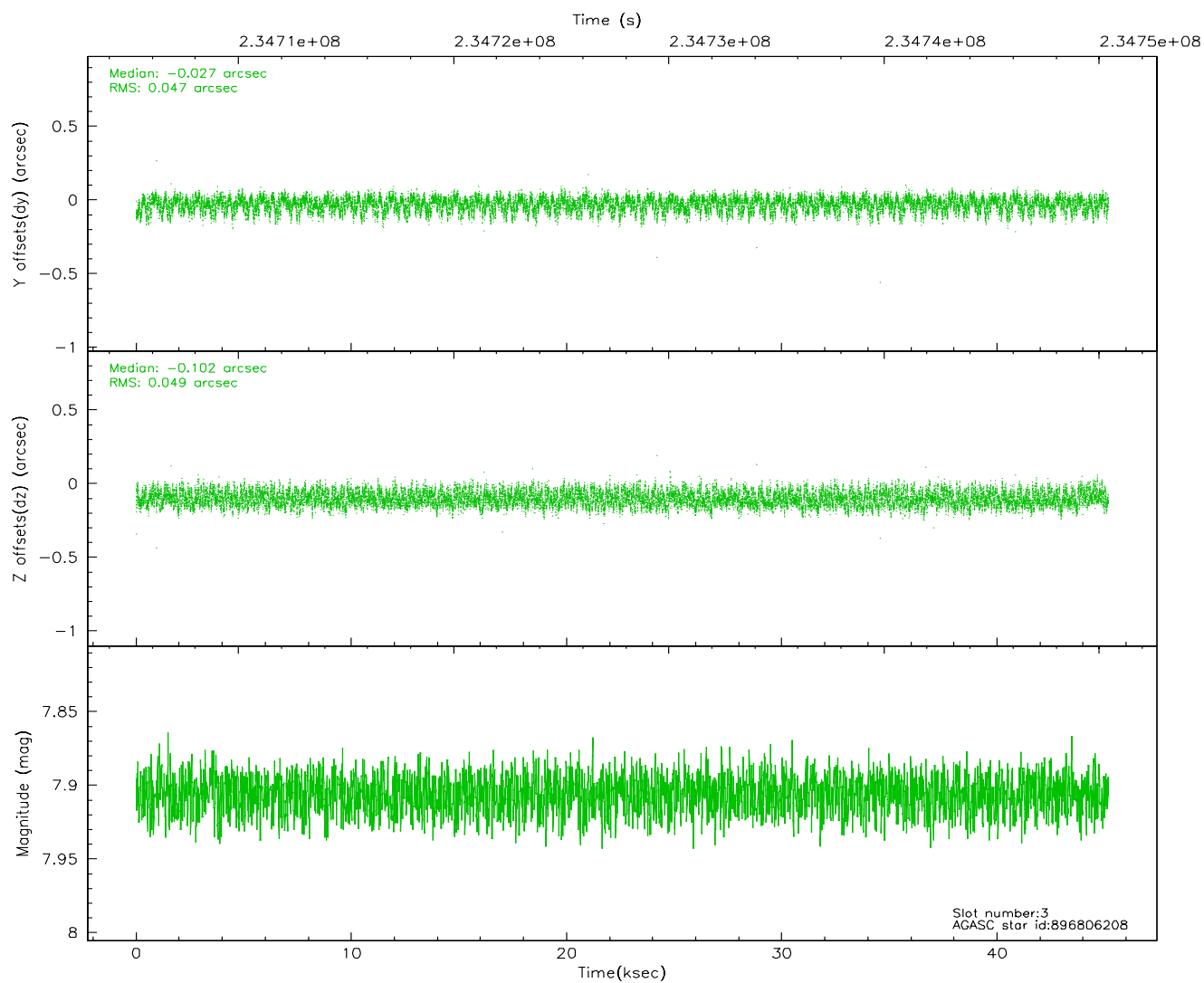
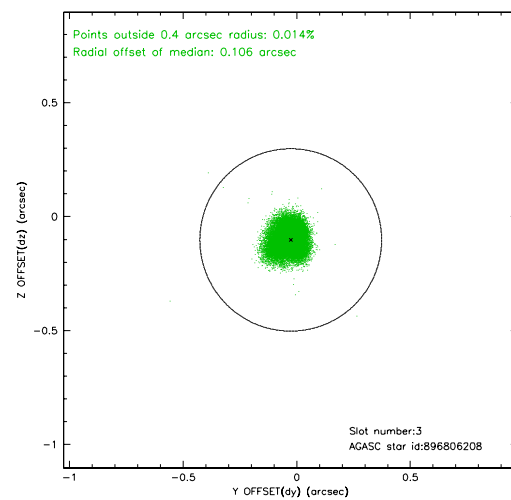
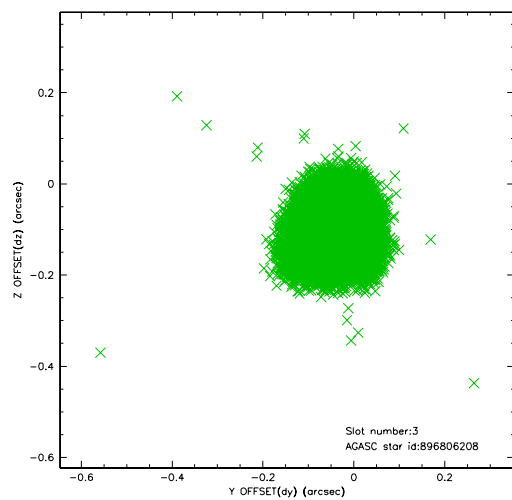


Slot Statistics

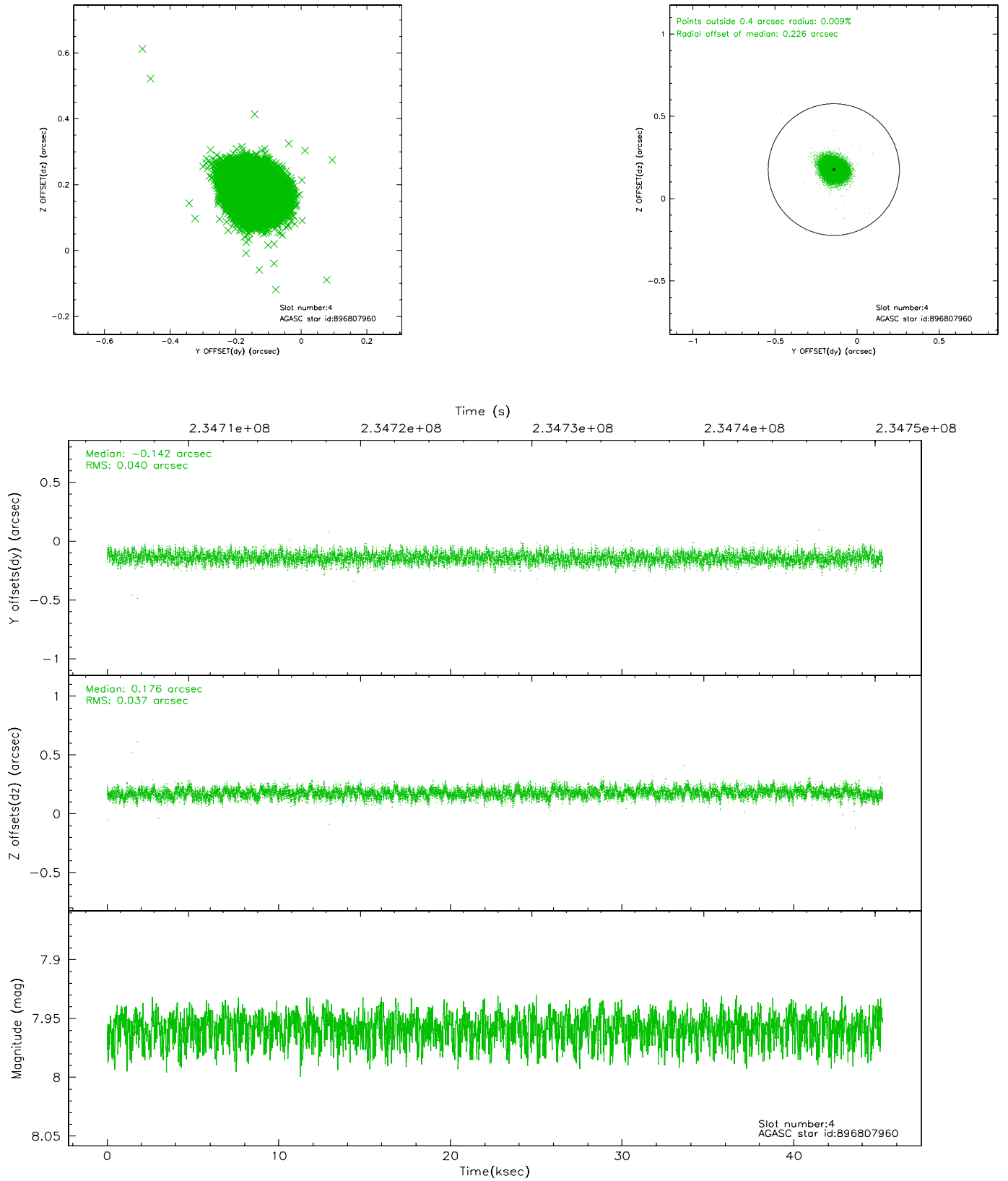
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	11020	-0.038	-0.017	0.013	0.025	0.000000	0.000000	-759.61	-1730.75
1	FID	ACIS-S-4	7.21	11020	0.049	0.022	0.008	0.015	0.000000	0.000000	2153.73	177.81
2	FID	ACIS-S-5	7.23	11019	-0.043	0.003	0.012	0.023	0.000000	0.000000	-1812.48	171.41
3	GUIDE	896806208	7.91	22035	-0.027	-0.102	0.073	0.113	270.466849	-24.367317	-6.02	1700.20
4	GUIDE	896807960	7.96	22037	-0.142	0.176	0.058	0.094	271.641091	-23.945331	1578.62	-2130.22
5	GUIDE	897319440	7.77	22038	0.019	0.070	0.055	0.090	271.242462	-24.680808	-1087.29	-860.50
6	GUIDE	897327936	7.21	22041	0.139	-0.033	0.072	0.111	271.293962	-24.398569	-68.73	-1013.45
7	GUIDE	896809544	8.95	22024	0.007	-0.115	0.101	0.155	270.254038	-24.153966	746.69	2415.27

2.4 Star Slots

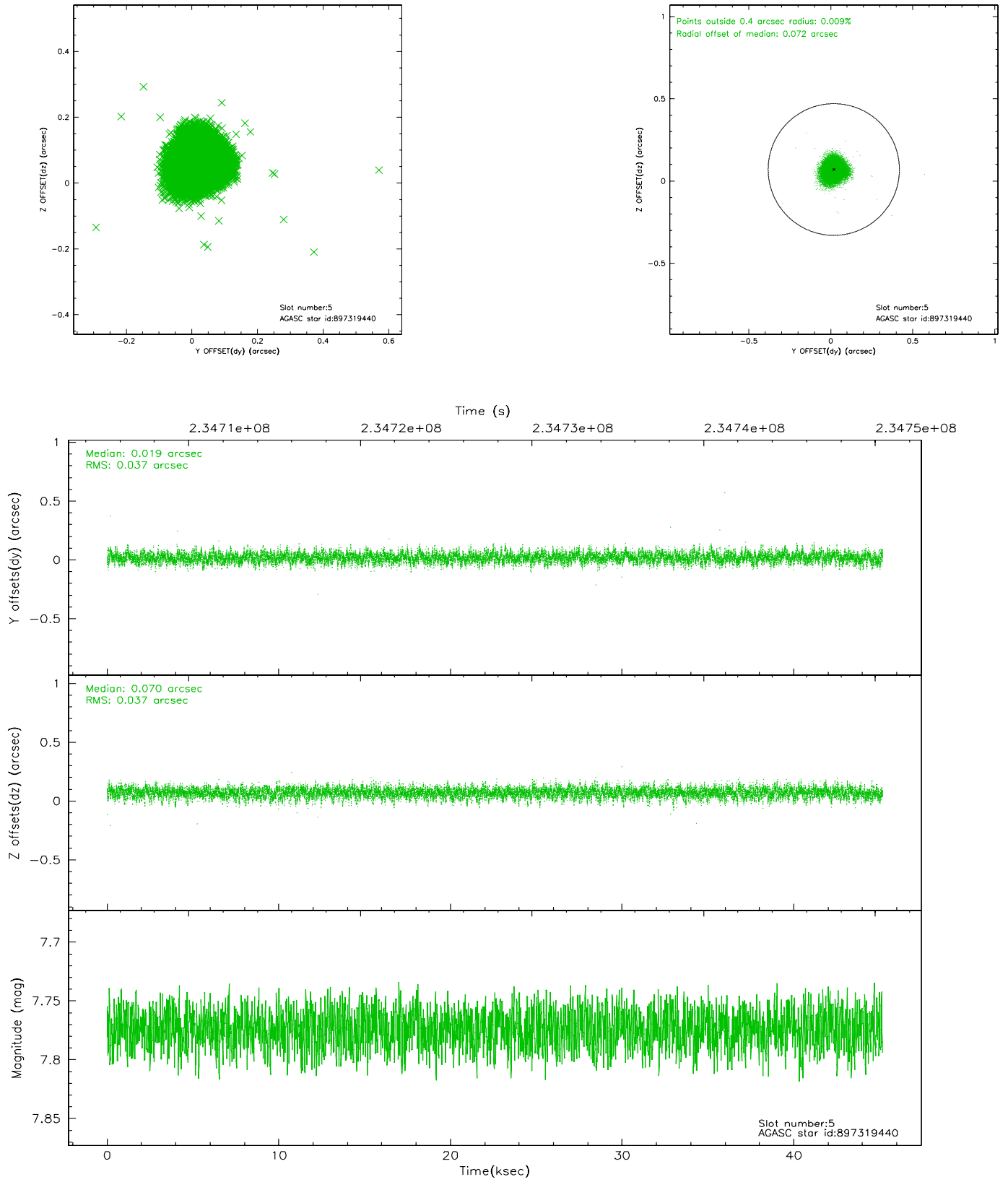
2.4.1 Slot 3



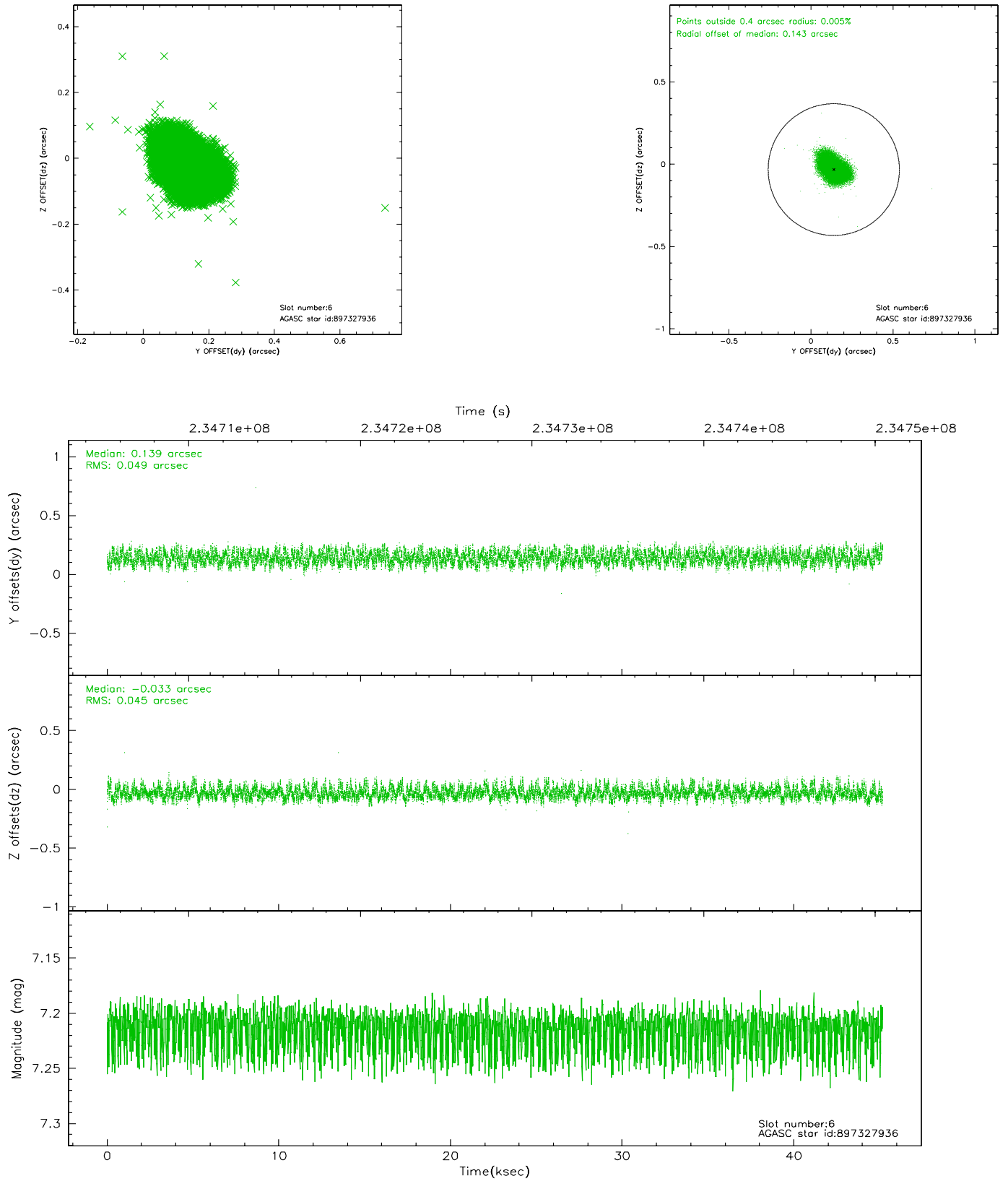
2.4.2 Slot 4



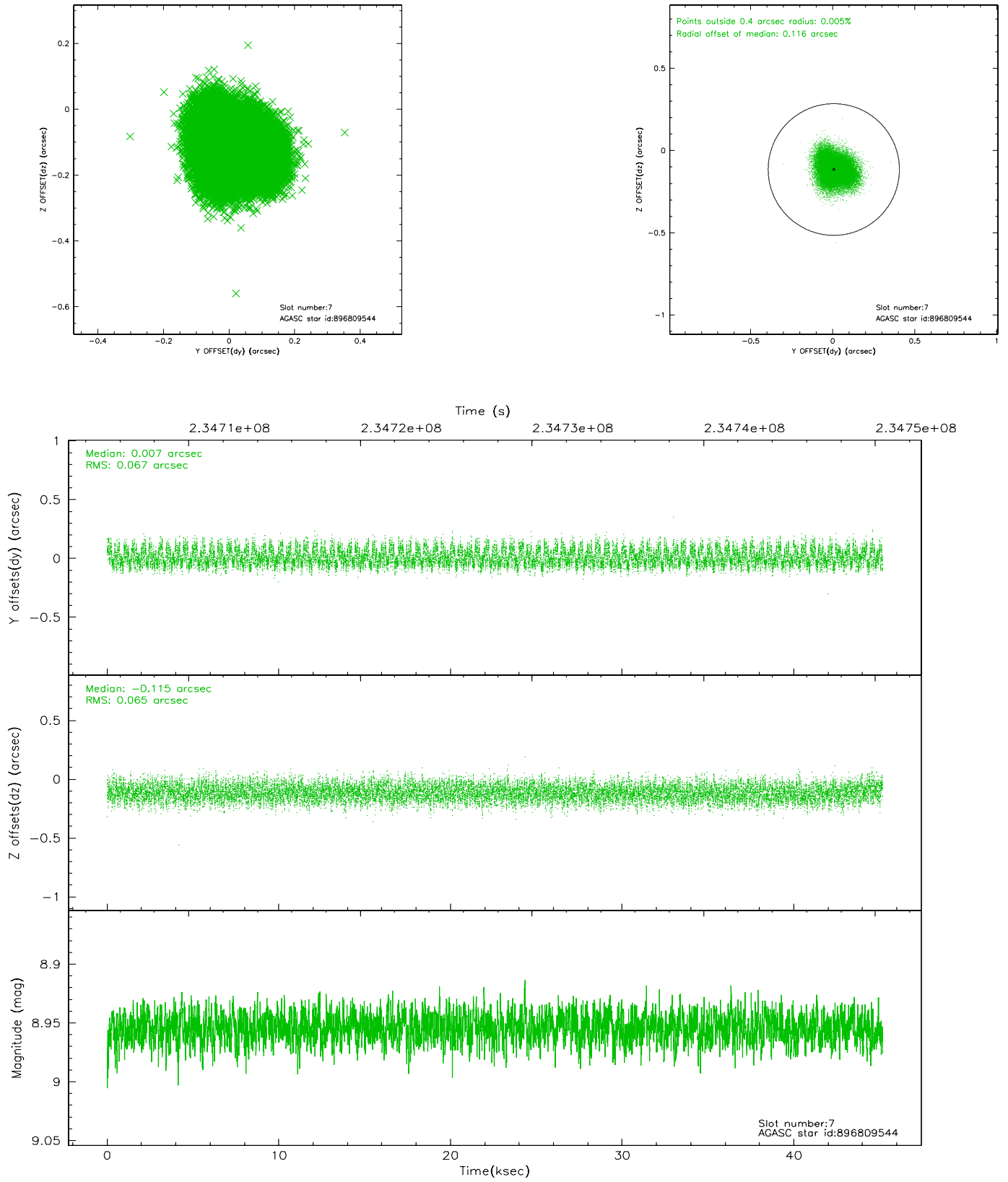
2.4.3 Slot 5



2.4.4 Slot 6

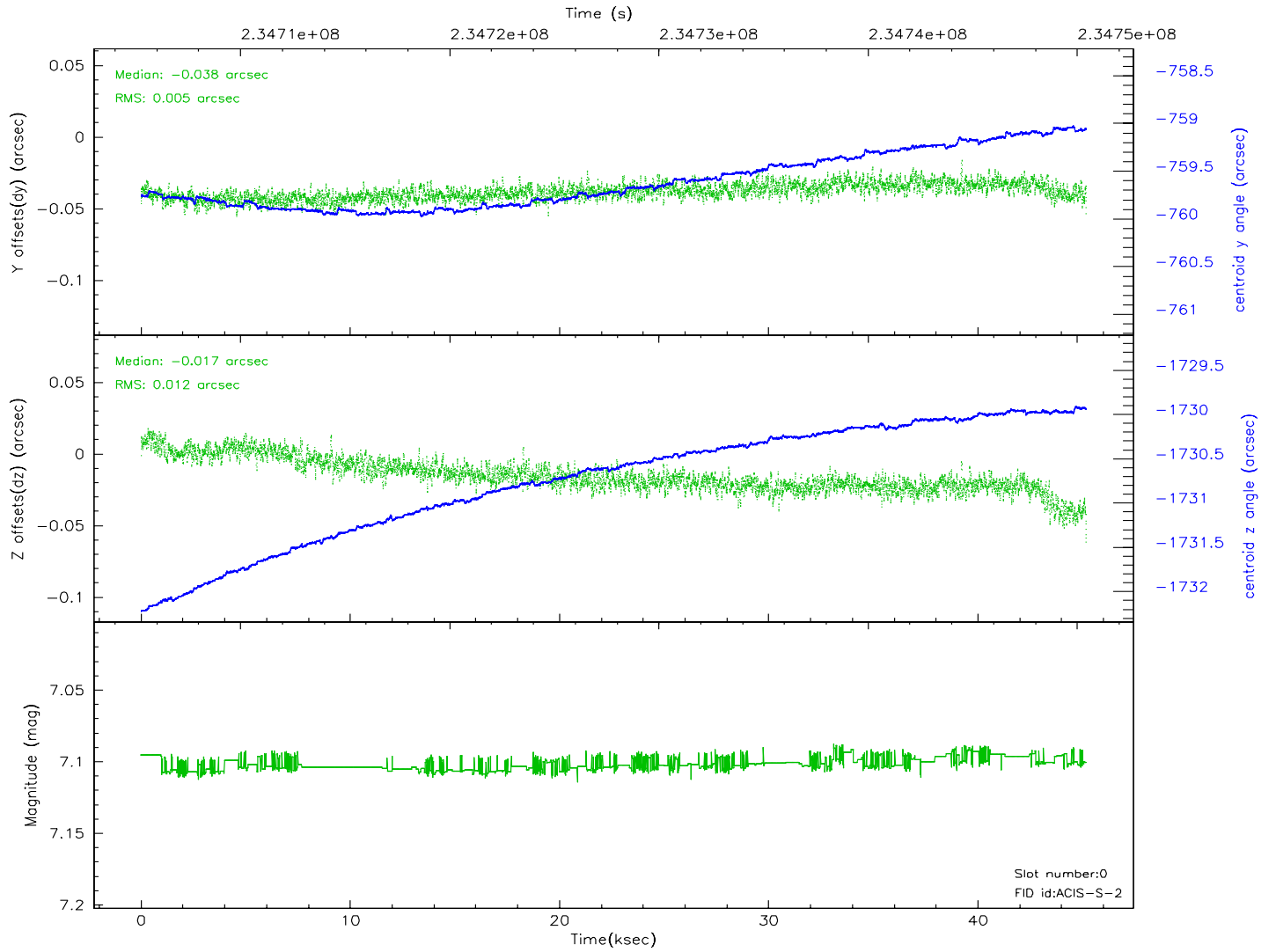
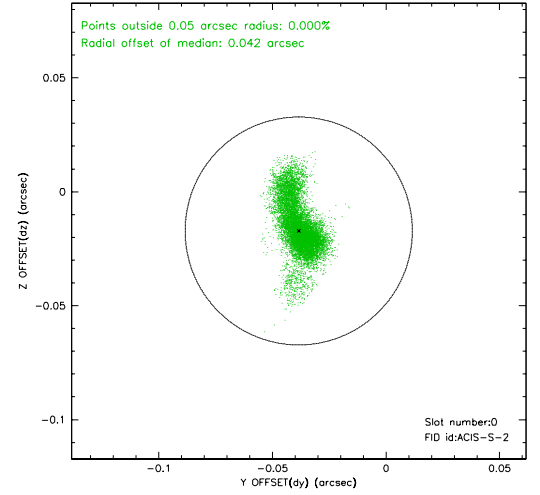
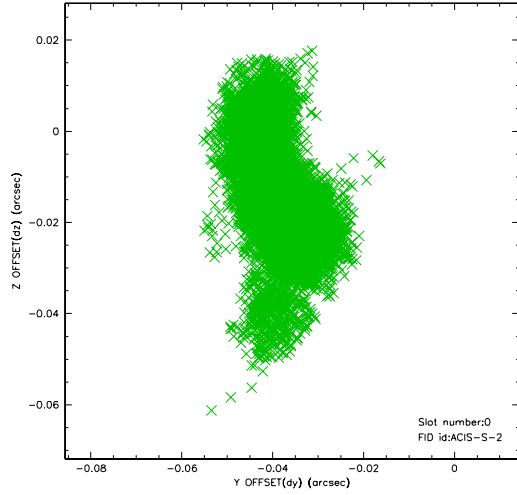


2.4.5 Slot 7

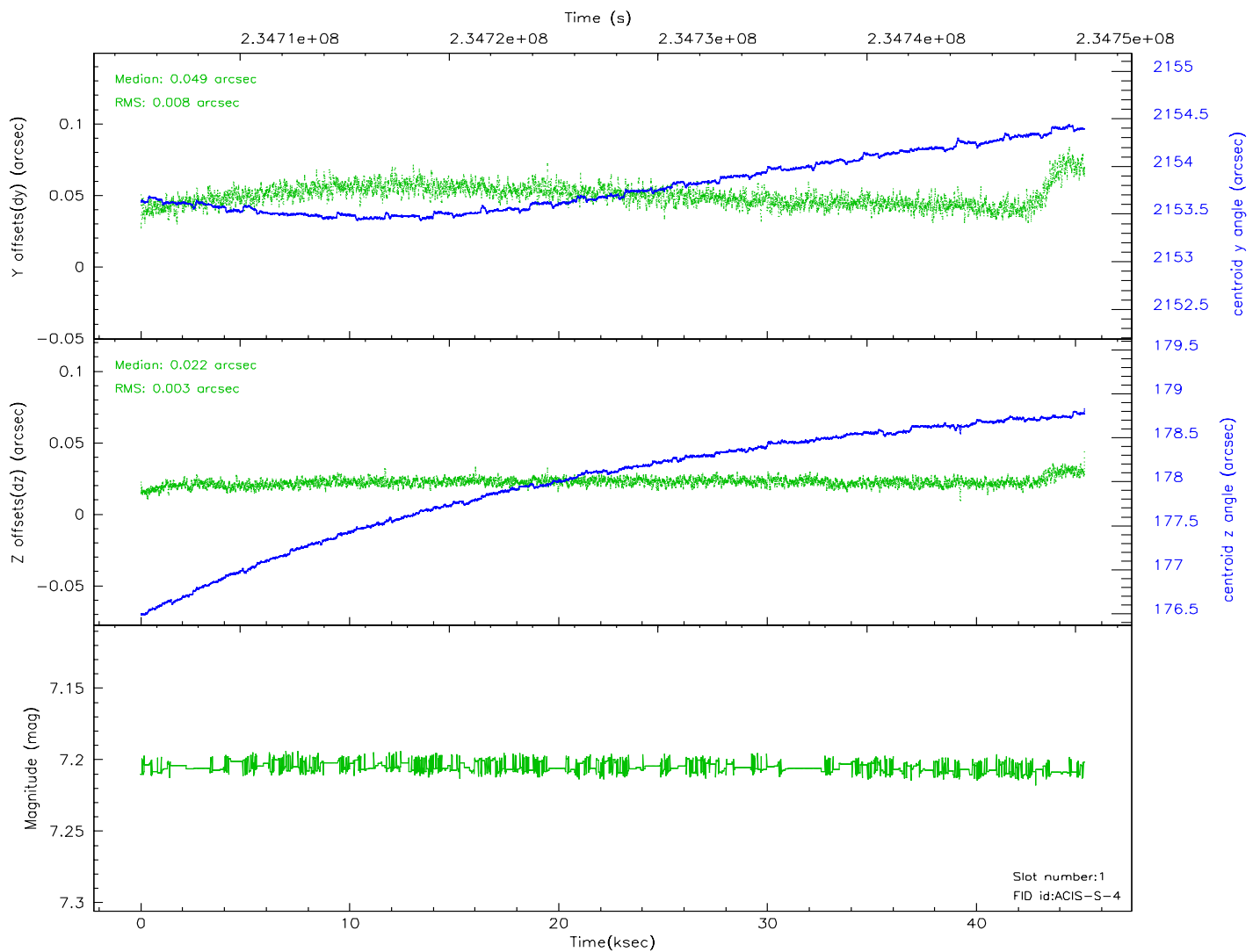
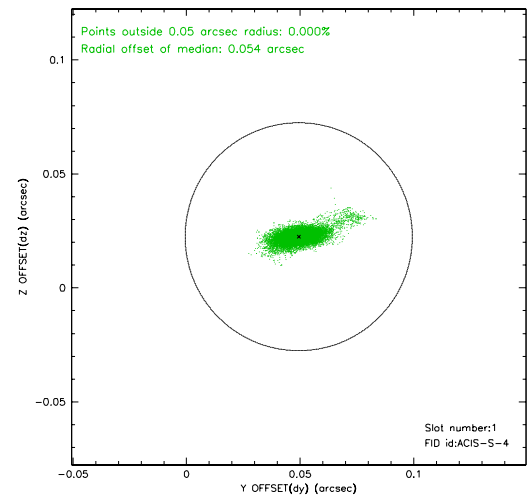
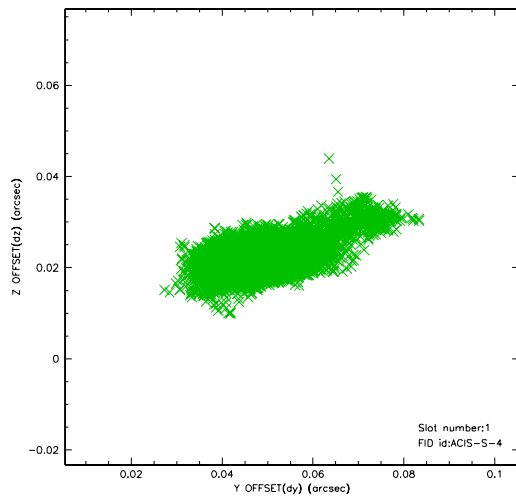


2.5 FID Slots

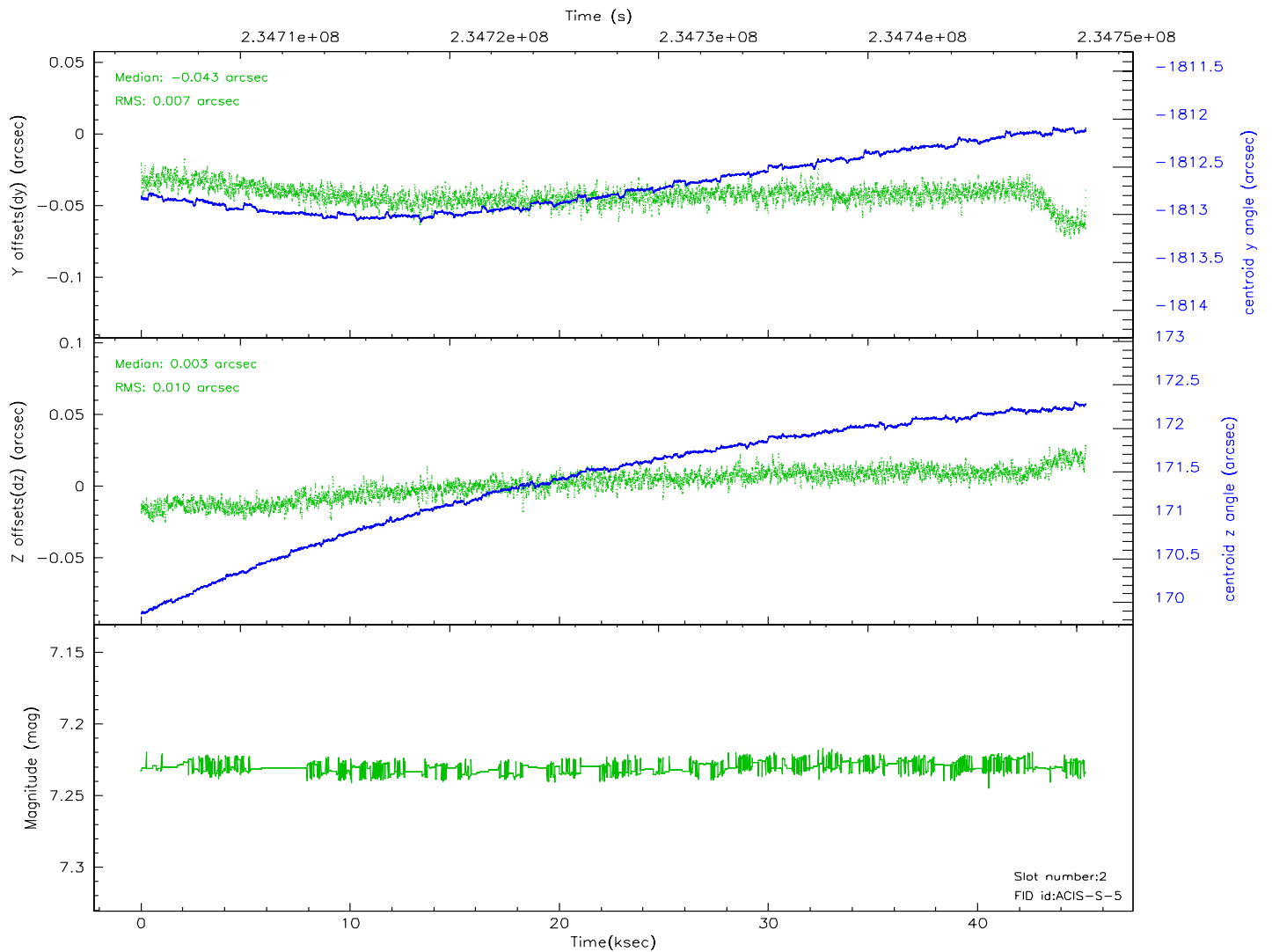
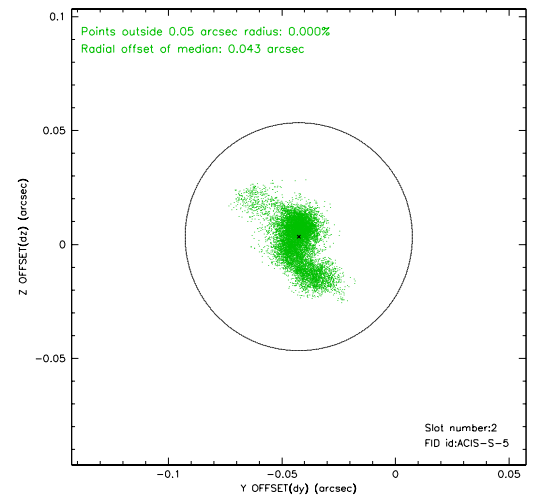
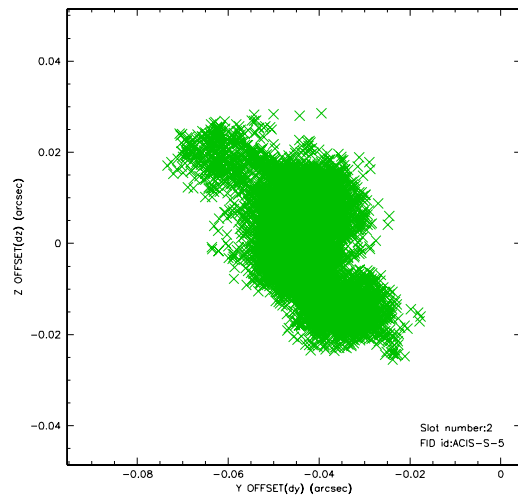
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

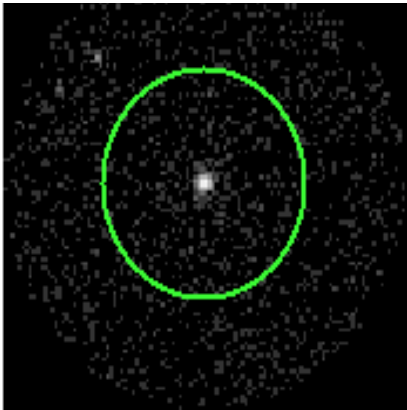


3 Gratings

3.1 HEG Arm



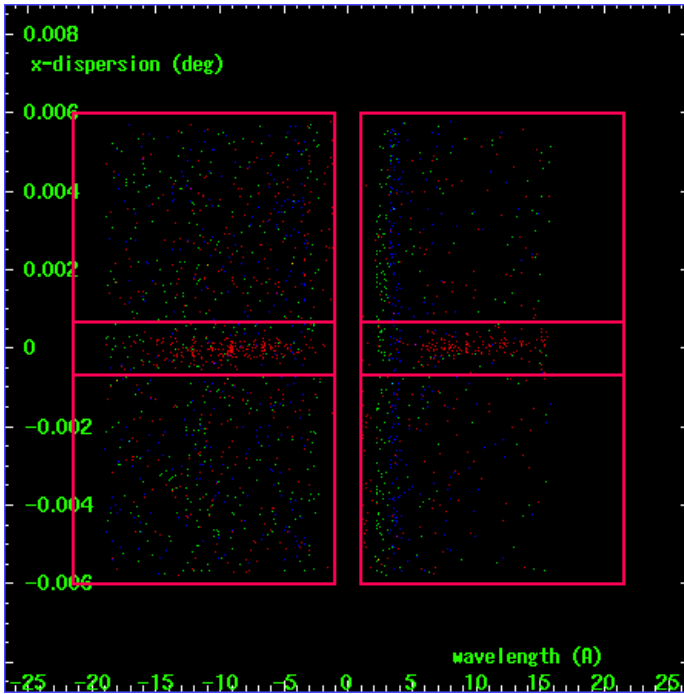
HEG Order Sort 123



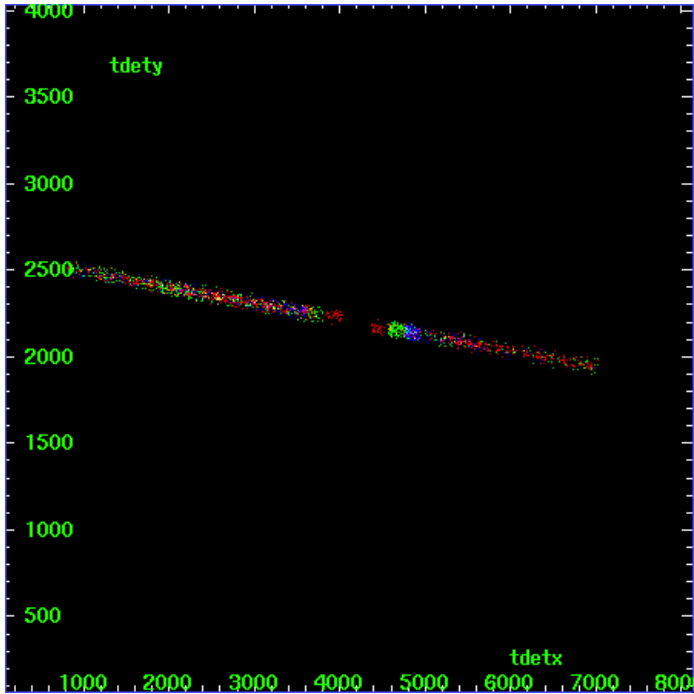
HEG Zero Order



HEG Order Sort ALL

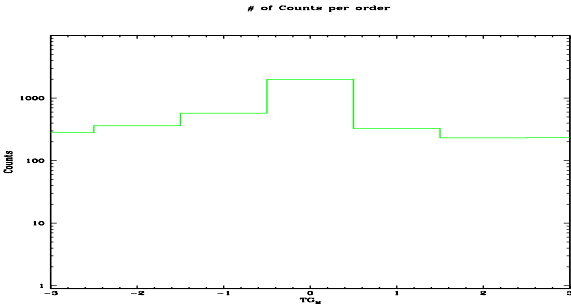


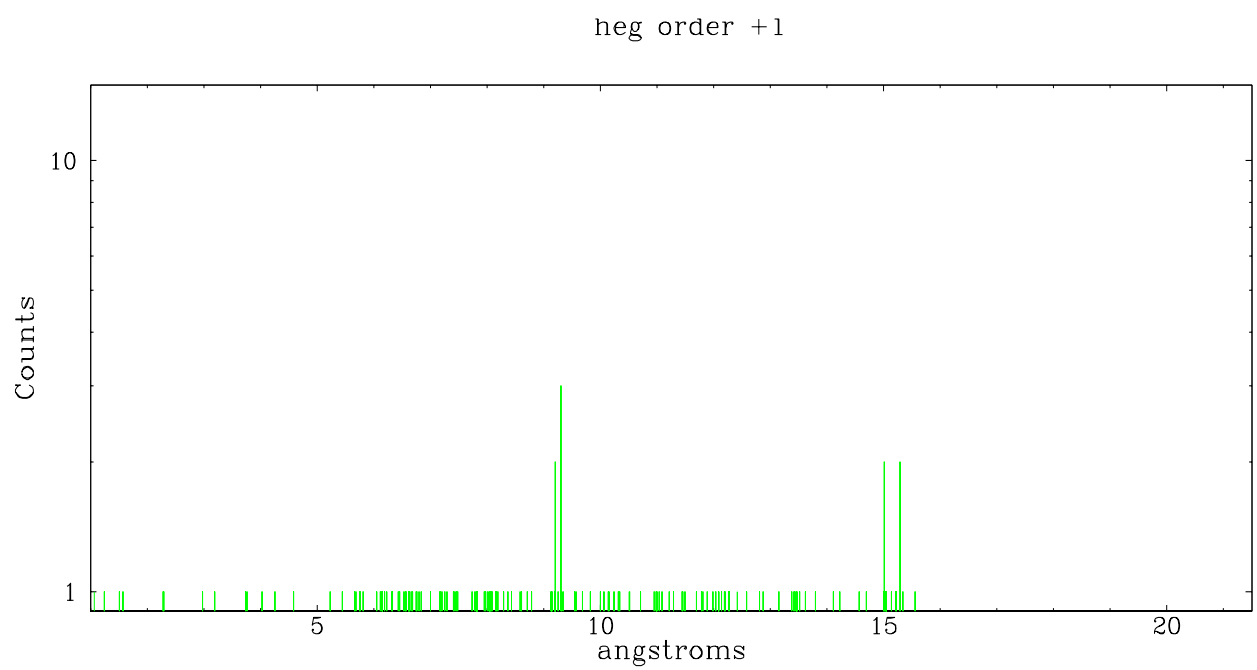
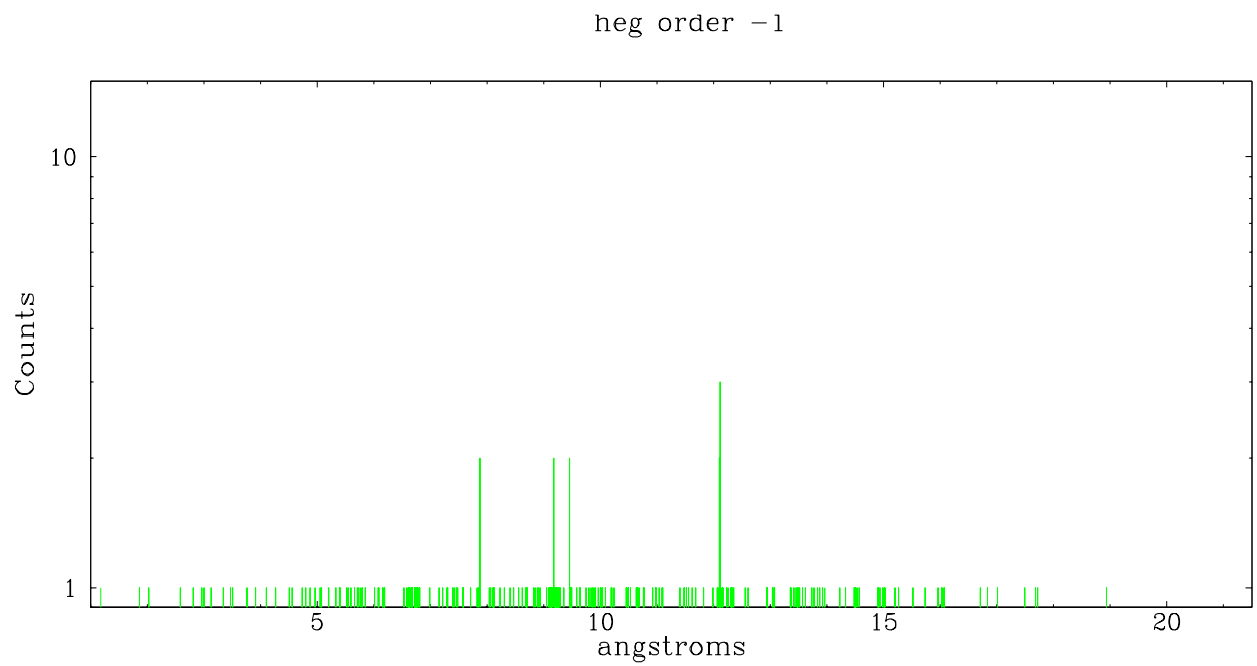
Spot Image HEG



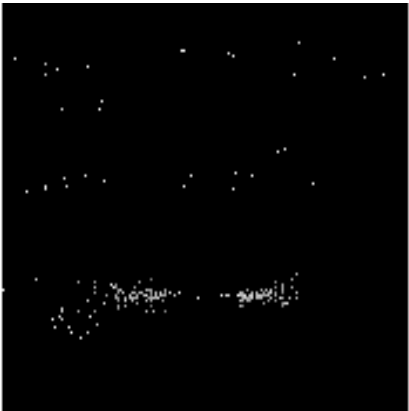
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	281	363	575	1998	327	232	234

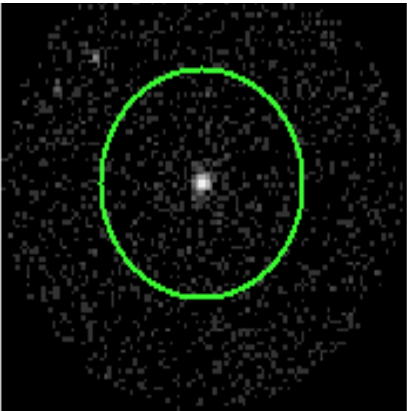




3.2 MEG Arm



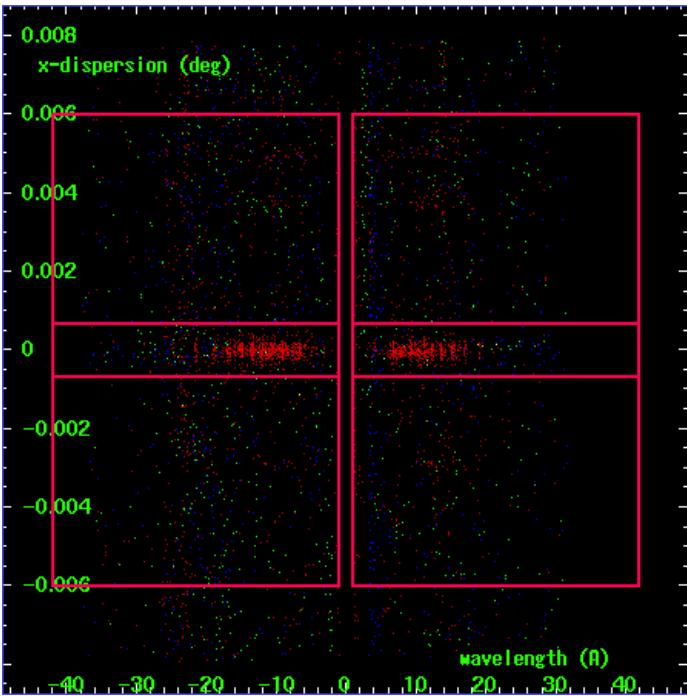
MEG Order Sort 123



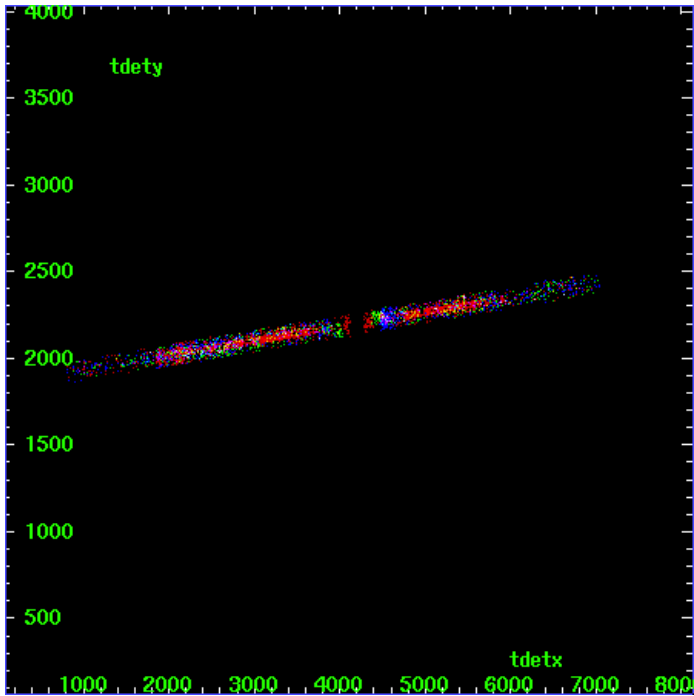
MEG Zero Order



MEG Order Sort ALL

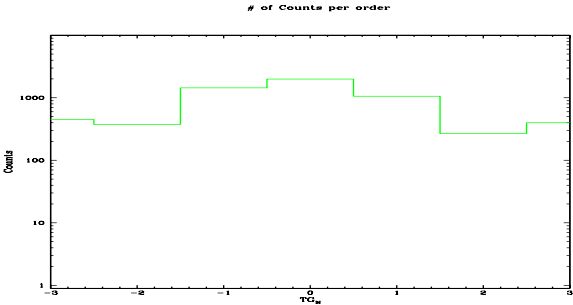


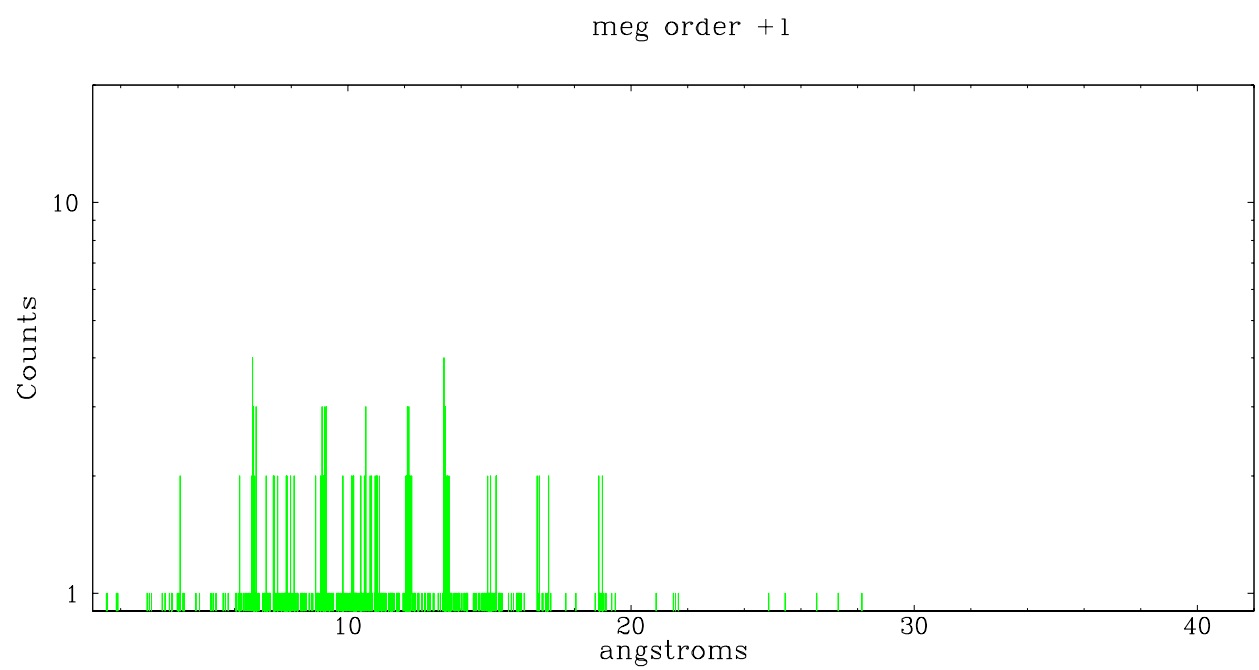
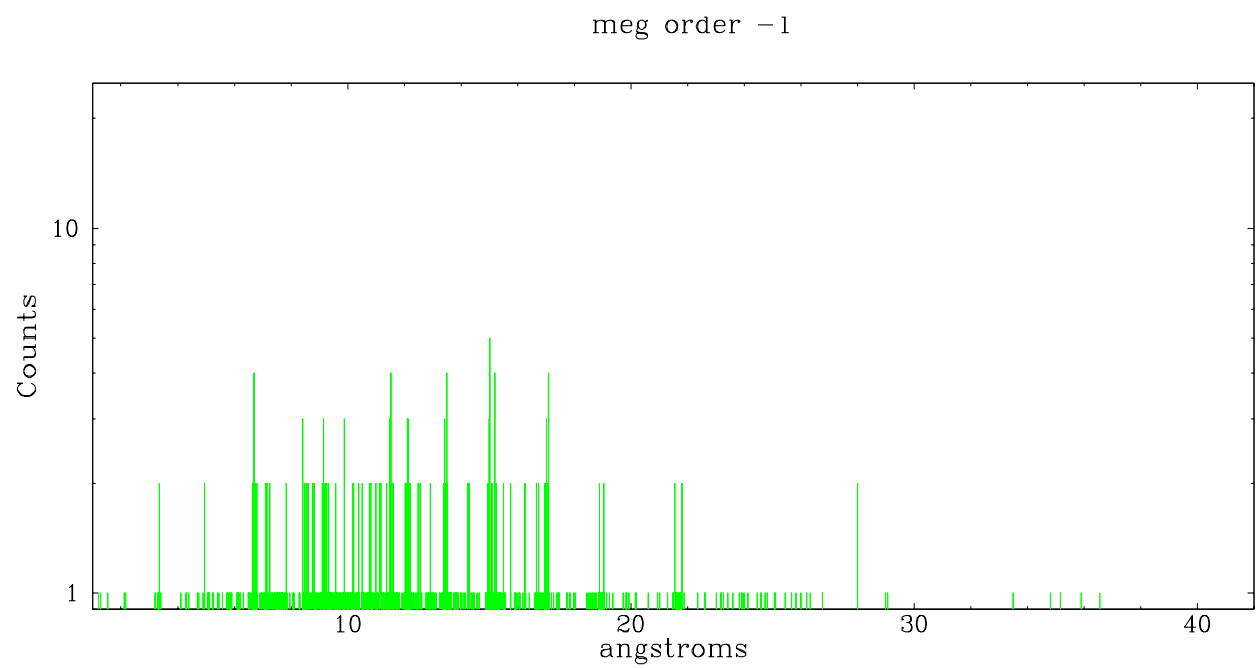
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	449	374	1447	1998	1060	268	400





A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.17439

A.2 Comments