

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6290 - L2 Version 002
Chandra X-Ray Center

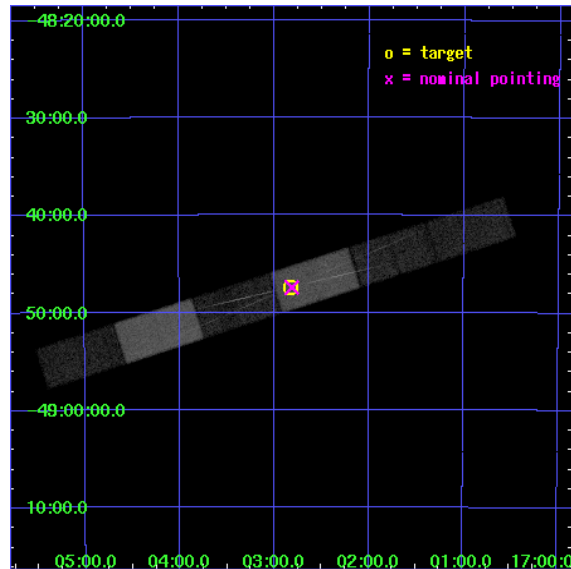
L2 Processing Date : Mar 10 2006

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

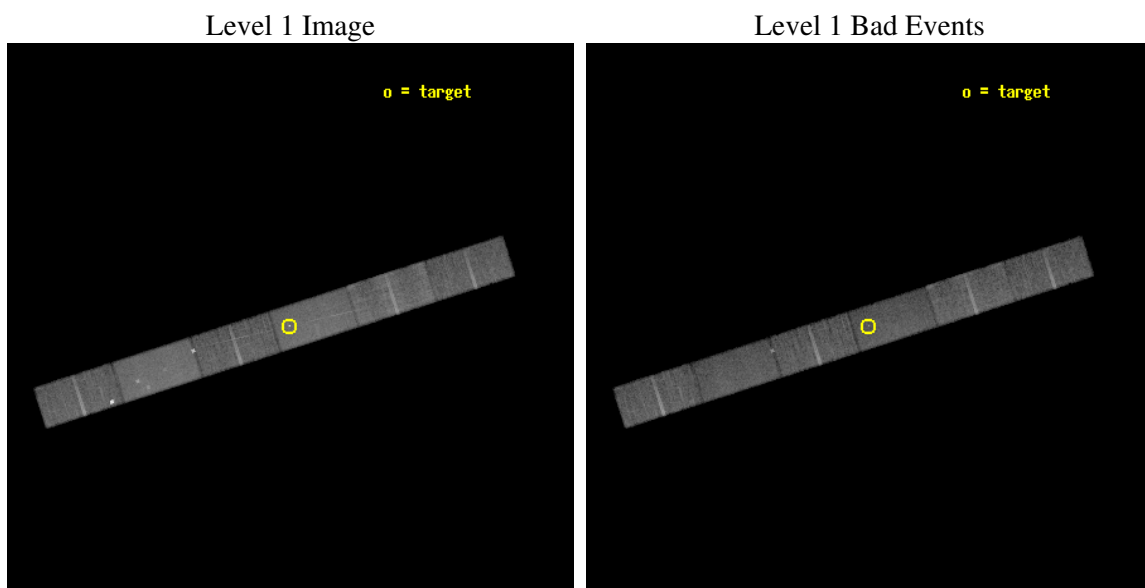
seq_num	400405
obs_id	6290
title	Resolving the Fe Line, Warm Absorber, and Scattering Halo of GX339-4 with Joint Chandra/RXTE Observations
observer	Dr. Michael Nowak
object	GX 339-4
dtcycle	0
cycle	P
ra_targ	255.705833
dec_targ	-48.789556
ra_nom	255.70288563334
dec_nom	-48.790676018041
roll_nom	342.17356510653
revision	2
ontime	21732.799847603
livetime	21220.511729153
ontime4	21732.799847603
ontime5	21732.799847603
ontime6	21732.799847603
ontime7	21732.799847603
ontime8	21732.799847603
ontime9	21732.799847603
l2events	138706



2 OBI

2.1 OBI

2.1.1 Images

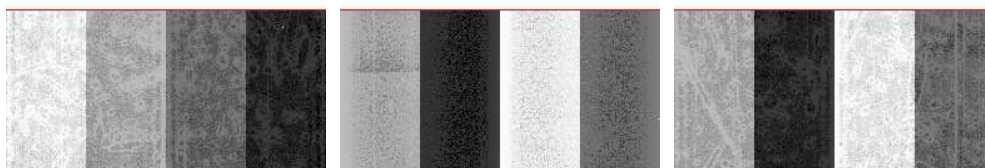


2.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-10T13:00:52
revision	2

sched_exp_time	21660.000000
ontime	21734.960591972
ontime4	21734.960591972
ontime5	21734.960591972
ontime6	21734.960591972
ontime7	21734.960591972
ontime8	21734.960591972
ontime9	21734.960591972
l1events	621919

2.1.4 Events

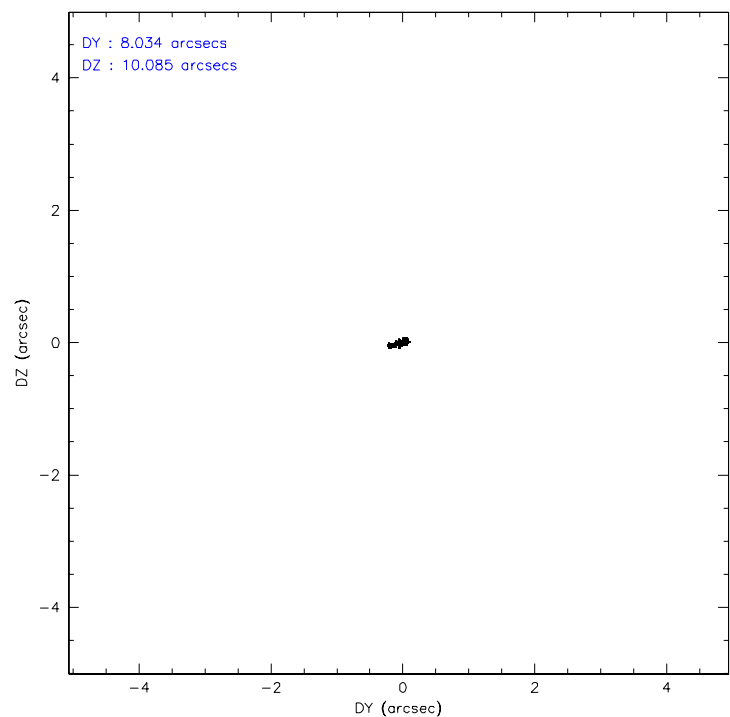
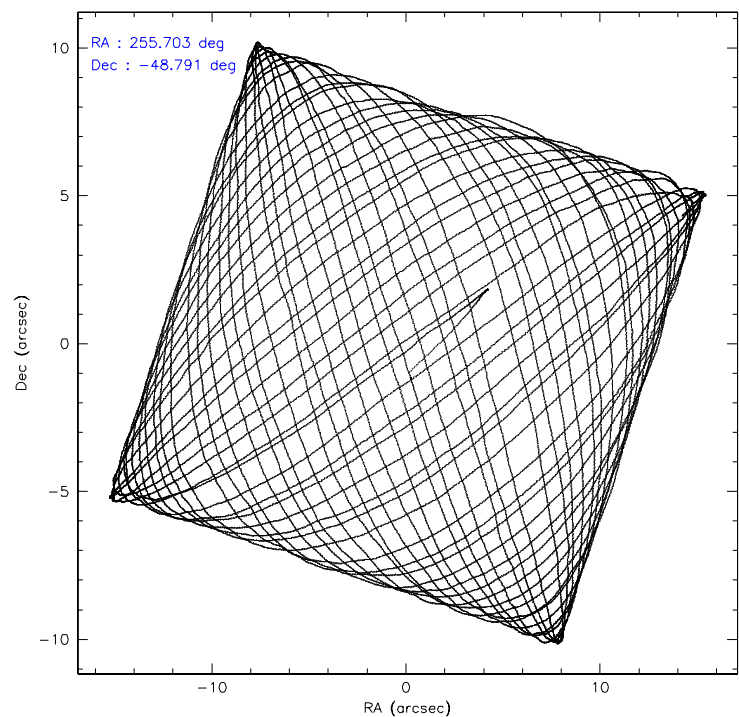
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	100874	125182	87426	114817	111681	81939
rejected events	80333	68599	75073	66291	86137	71089
rejected %	79%	54%	85%	57%	77%	86%

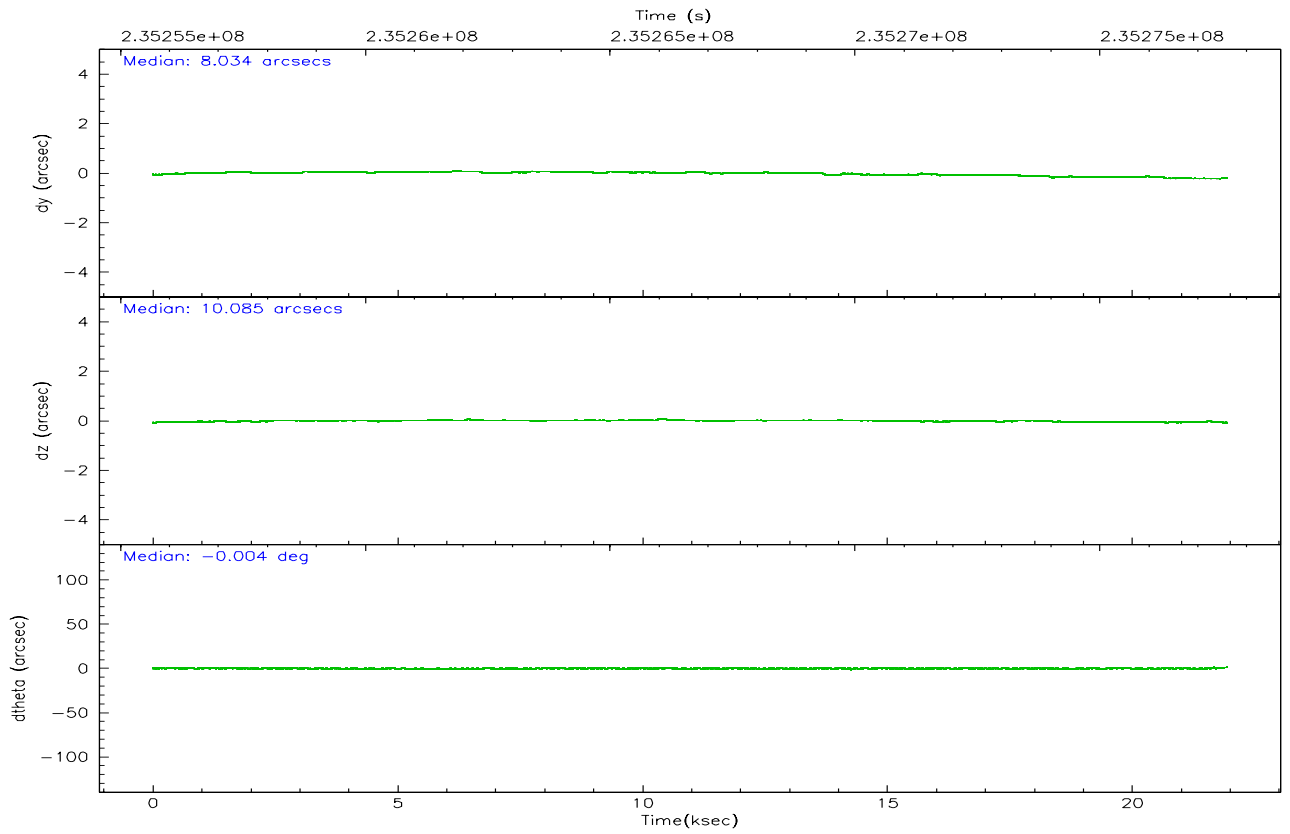
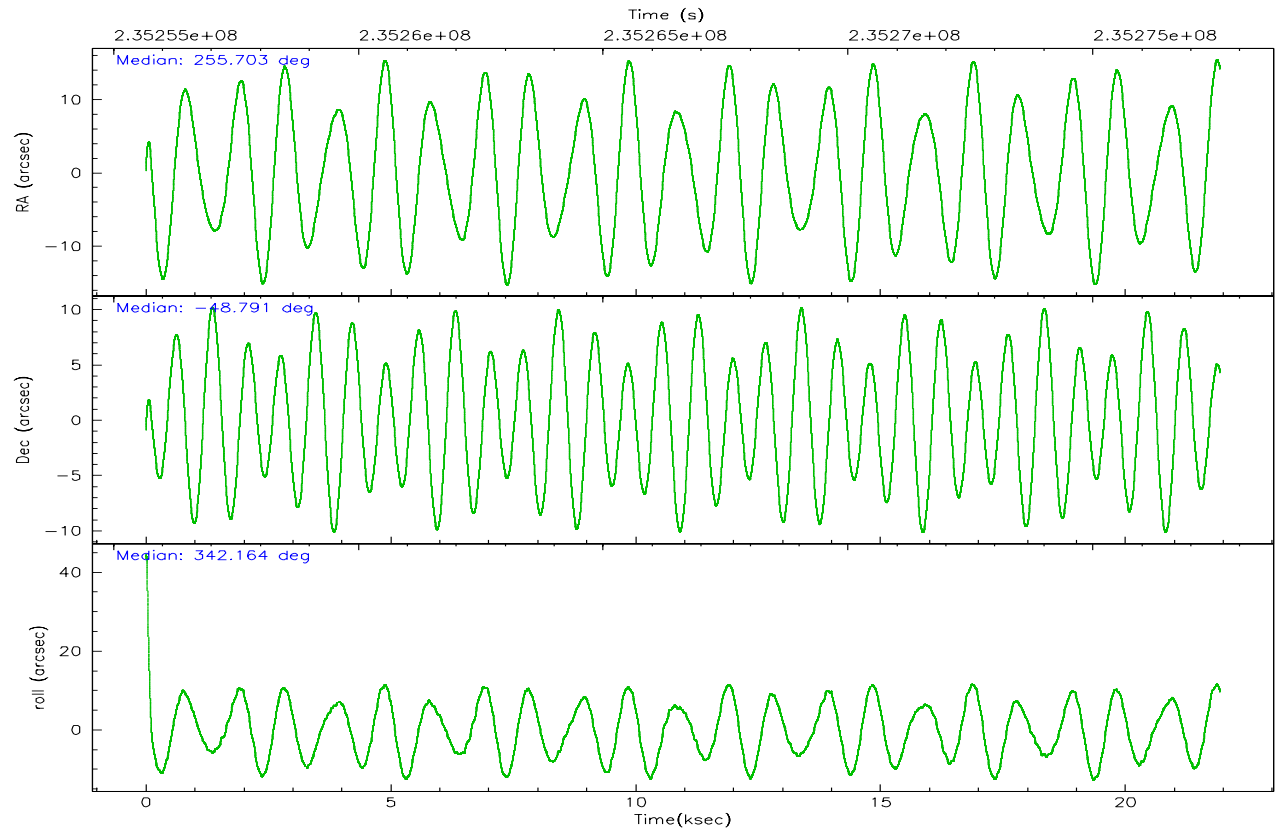
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	13979	5434	5359	3597	8051	4264
	13%	4%	6%	3%	7%	5%
grade 1 events	91	572	28	76	54	46
	0%	0%	0%	0%	0%	0%
grade 2 events	2346	16570	2398	11596	5396	2063
	2%	13%	2%	10%	4%	2%
grade 3 events	1230	2015	1234	3418	2803	1312
	1%	1%	1%	2%	2%	1%
grade 4 events	1201	1988	1274	3327	2507	1189
	1%	1%	1%	2%	2%	1%
grade 5 events	3445	6926	3770	8334	4744	3919
	3%	5%	4%	7%	4%	4%
grade 6 events	1787	30585	2088	26590	6790	2022
	1%	24%	2%	23%	6%	2%
grade 7 events	76795	61092	71275	57879	81336	67124
	76%	48%	81%	50%	72%	81%

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	1/2
Pointing RA	255.662627	255.7028856333409	Subarray start row	1	1
Pointing Dec	-48.796789	-48.79067601804112	Subarray row count	512	512
Pointing Roll	341.986619	342.1735651065312	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	1.7
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-183.992523	-183.9875365069546			
SIM translation stage offset (mm)	-6.14	-6.144986076053243			
Observation start time	235255939.184000	235254954.6997			
Observation start date	2005-06-15T20:51:15	2005-06-15T20:35:54			
Observation end time	235277599.184000	235278350.83827			
Observation end date	2005-06-16T02:52:15	2005-06-16T03:05:50			
Read mode	TIMED	TIMED			

2.3 Aspect



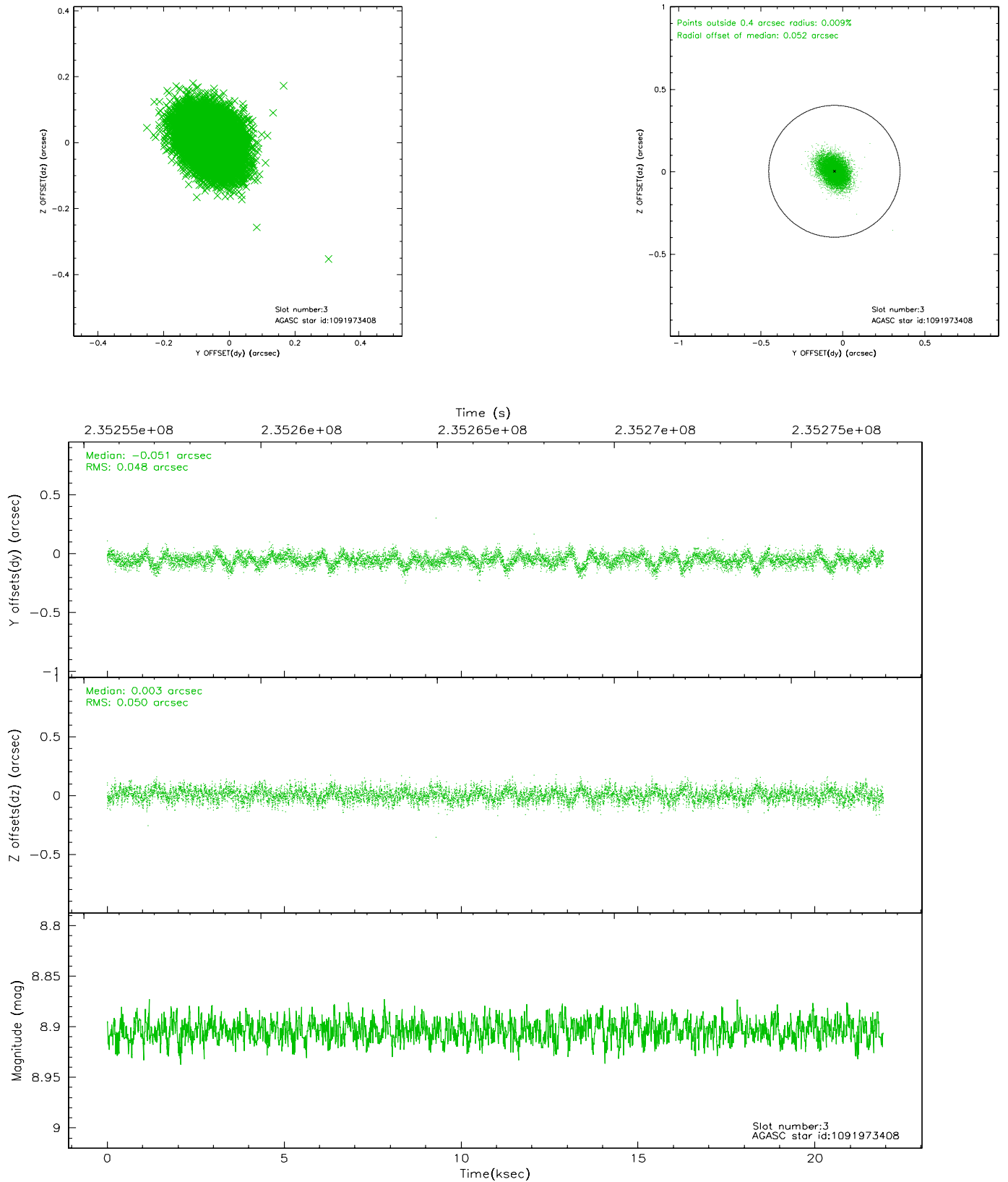


Slot Statistics

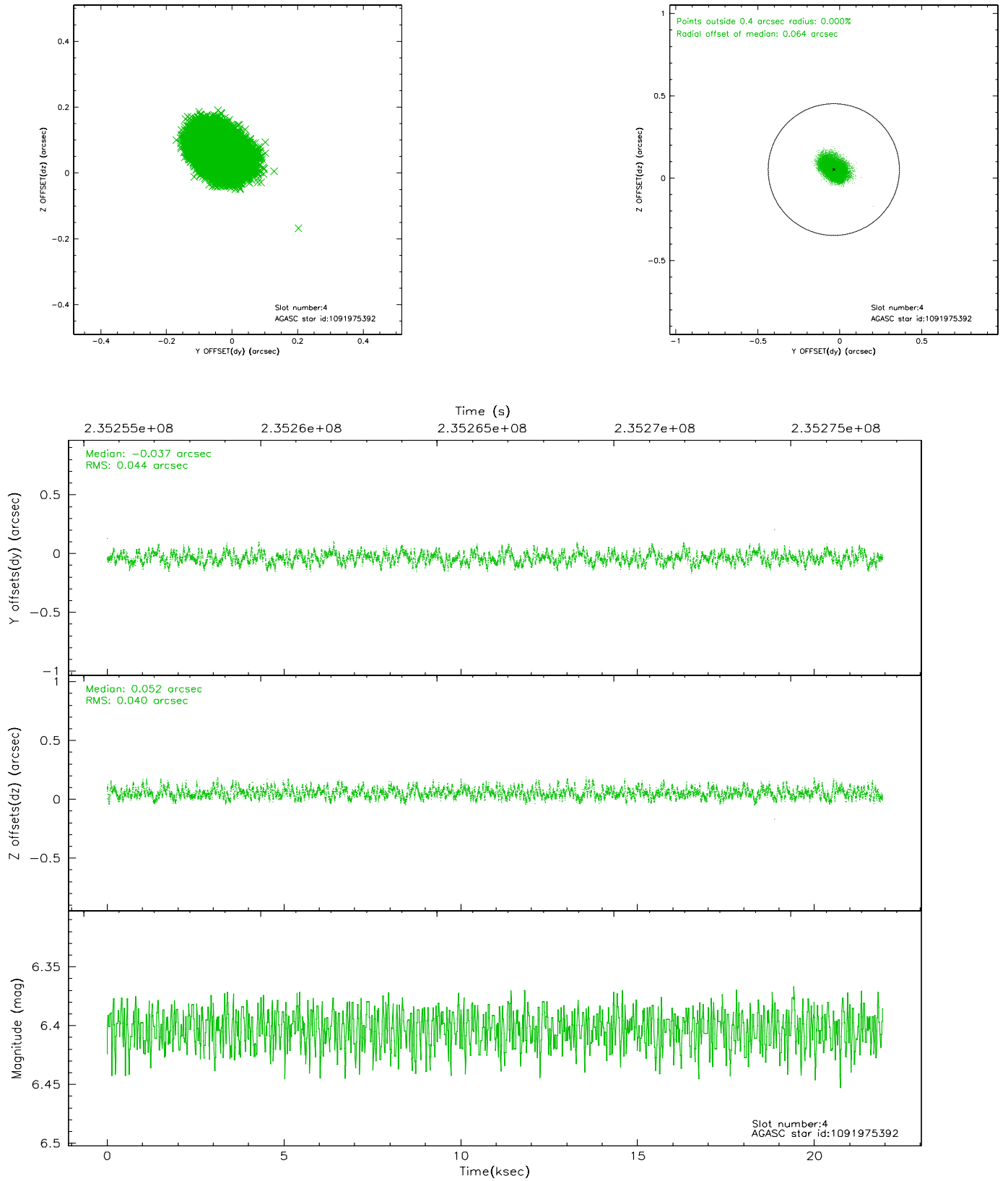
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	5349	-0.076	-0.058	0.006	0.011	0.000000	0.000000	-760.42	-1858.04
1	FID	ACIS-S-4	7.18	5350	0.041	0.047	0.006	0.011	0.000000	0.000000	2152.89	50.36
2	FID	ACIS-S-6	7.40	5349	0.008	0.018	0.007	0.012	0.000000	0.000000	401.84	687.90
3	GUIDE	1091973408	8.90	10697	-0.051	0.003	0.074	0.120	255.800233	-48.601800	94.62	768.94
4	GUIDE	1091975392	6.40	10699	-0.037	0.052	0.065	0.101	255.805002	-48.336791	-188.03	1680.33
5	GUIDE	1092485728	6.88	10699	0.135	0.044	0.060	0.099	254.773222	-48.875124	-1911.10	-930.87
6	GUIDE	1092491384	9.12	10692	-0.105	0.000	0.086	0.139	254.923973	-49.184437	-1218.50	-1872.60
7	GUIDE	1091962216	9.47	10686	0.054	-0.101	0.100	0.162	255.189308	-47.995738	-1975.36	2386.29

2.4 Star Slots

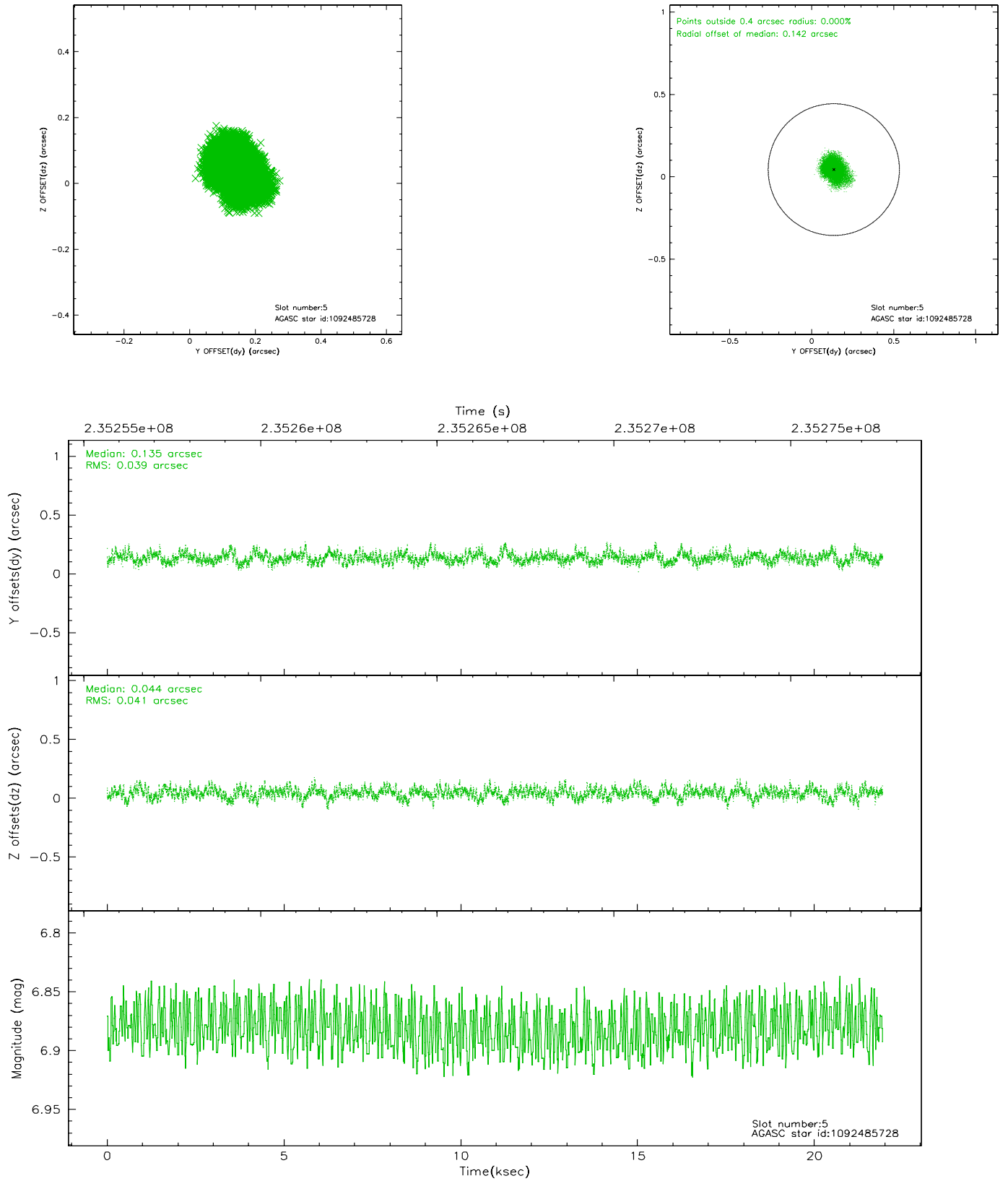
2.4.1 Slot 3



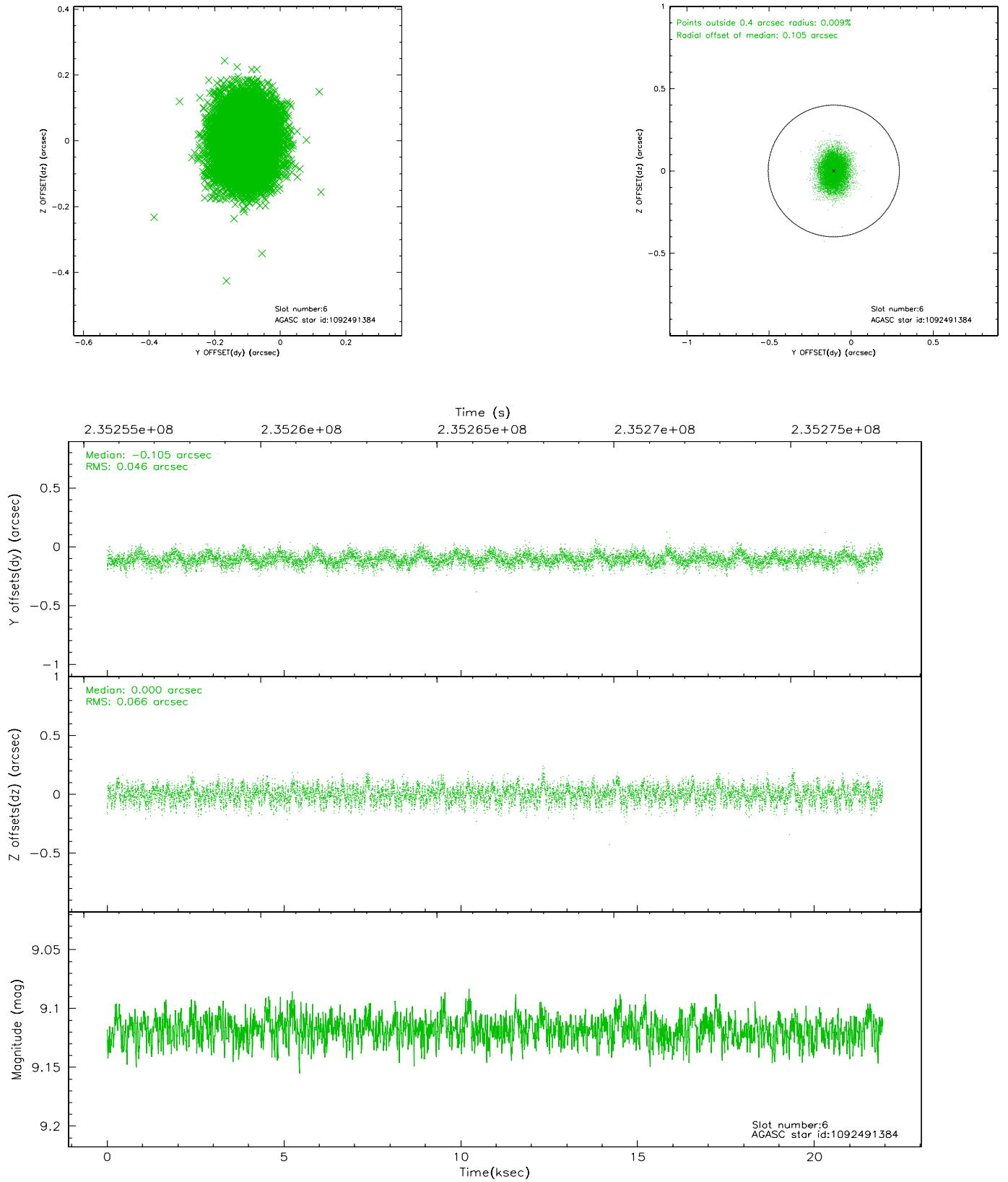
2.4.2 Slot 4



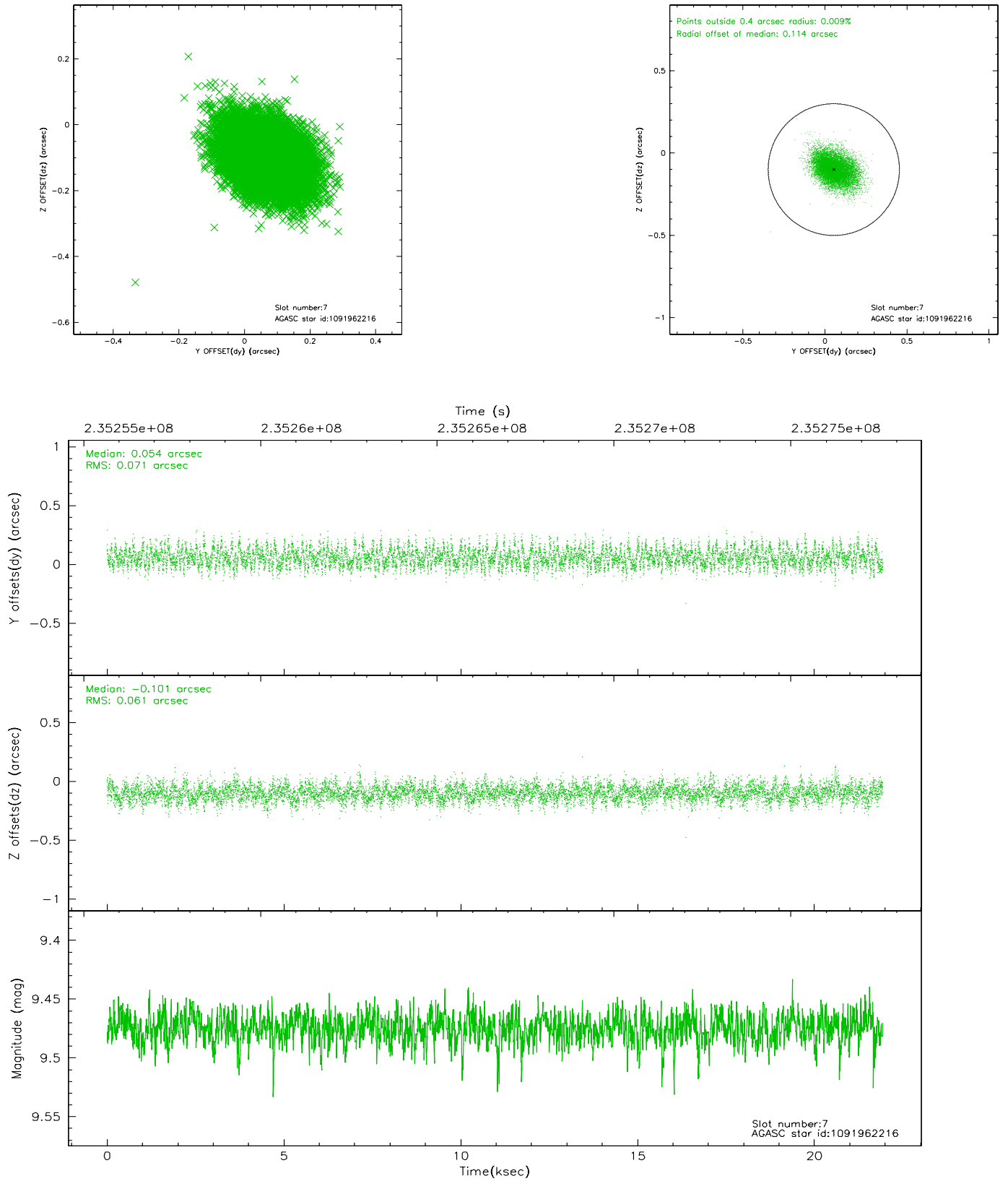
2.4.3 Slot 5



2.4.4 Slot 6

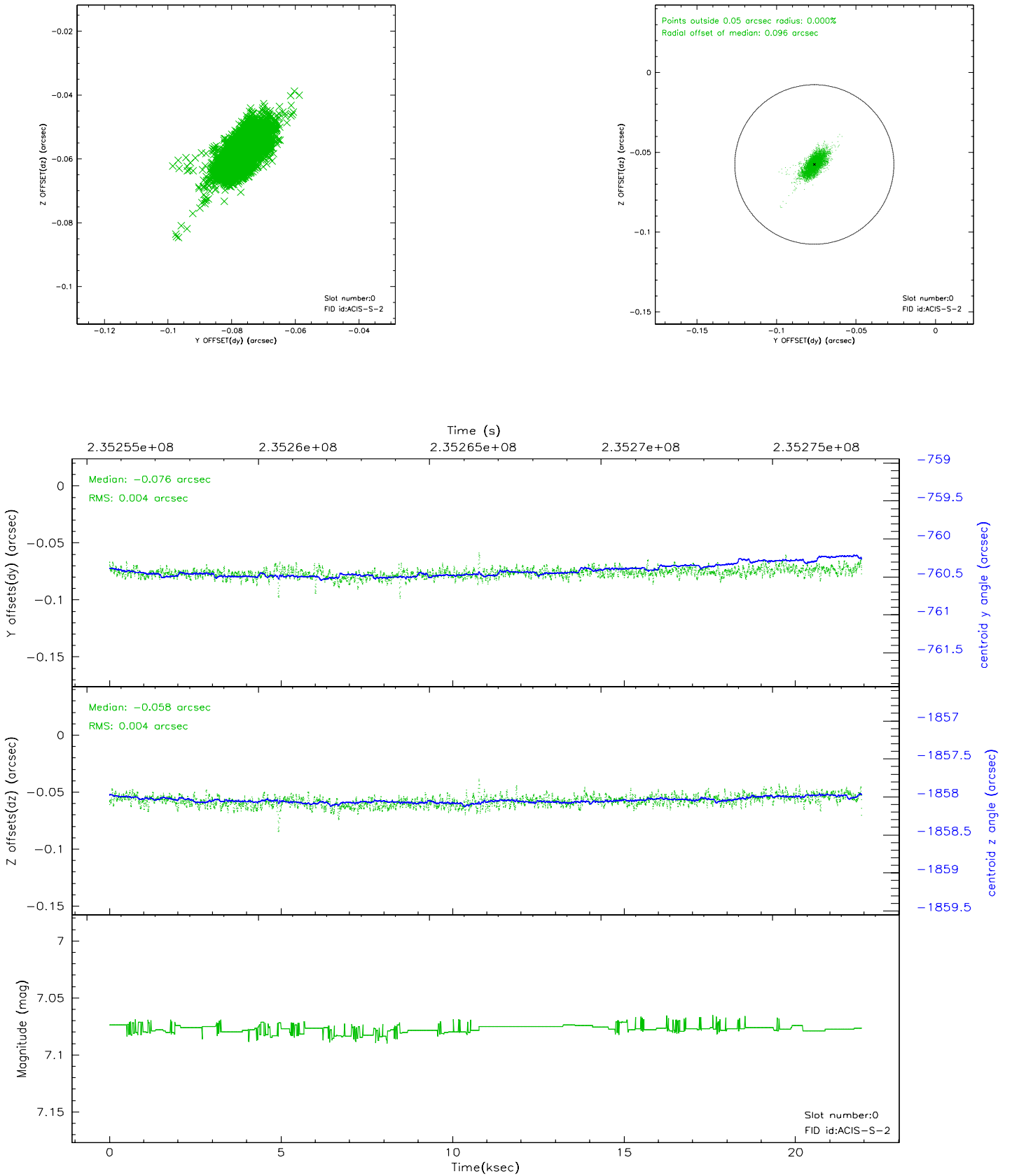


2.4.5 Slot 7

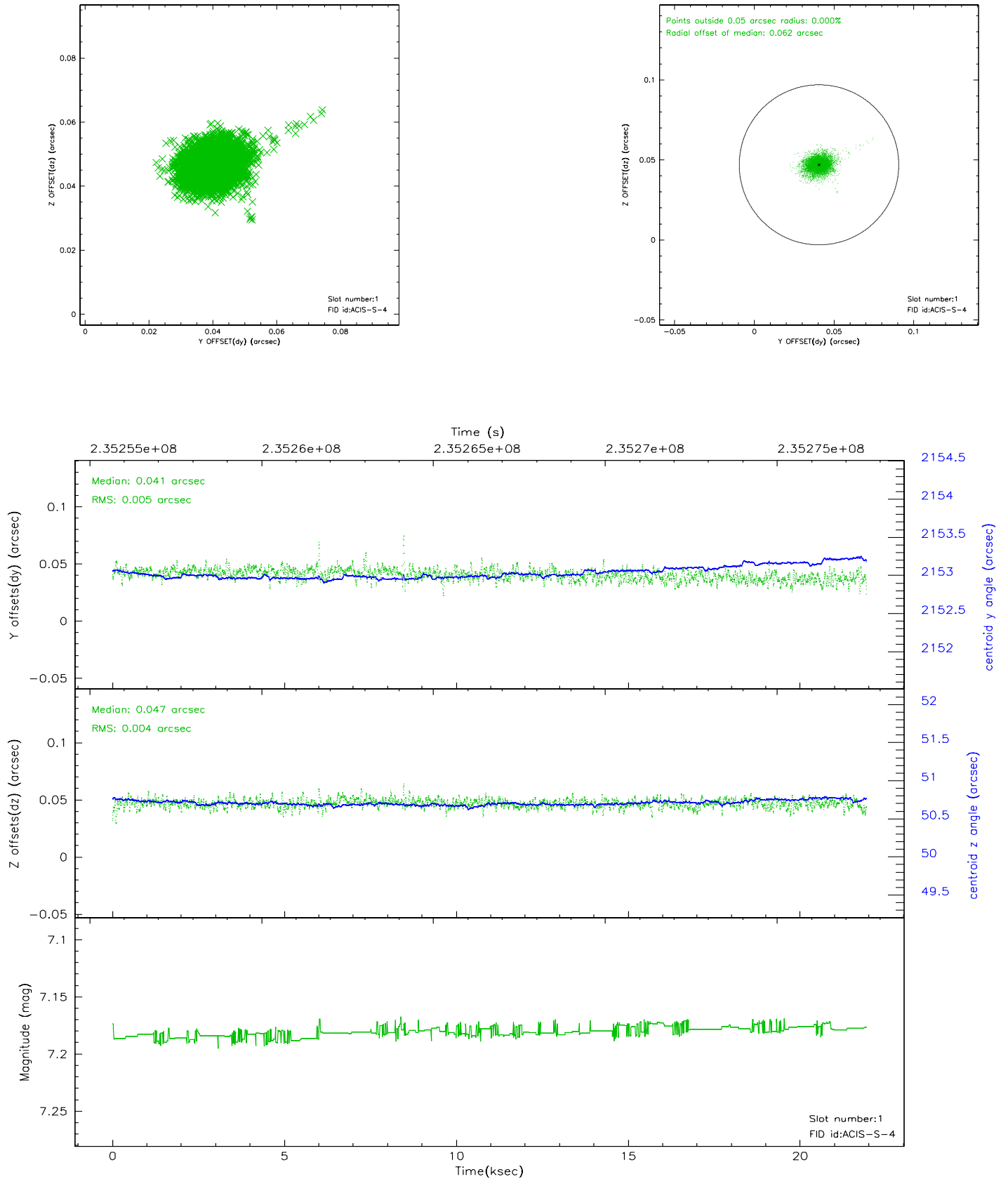


2.5 FID Slots

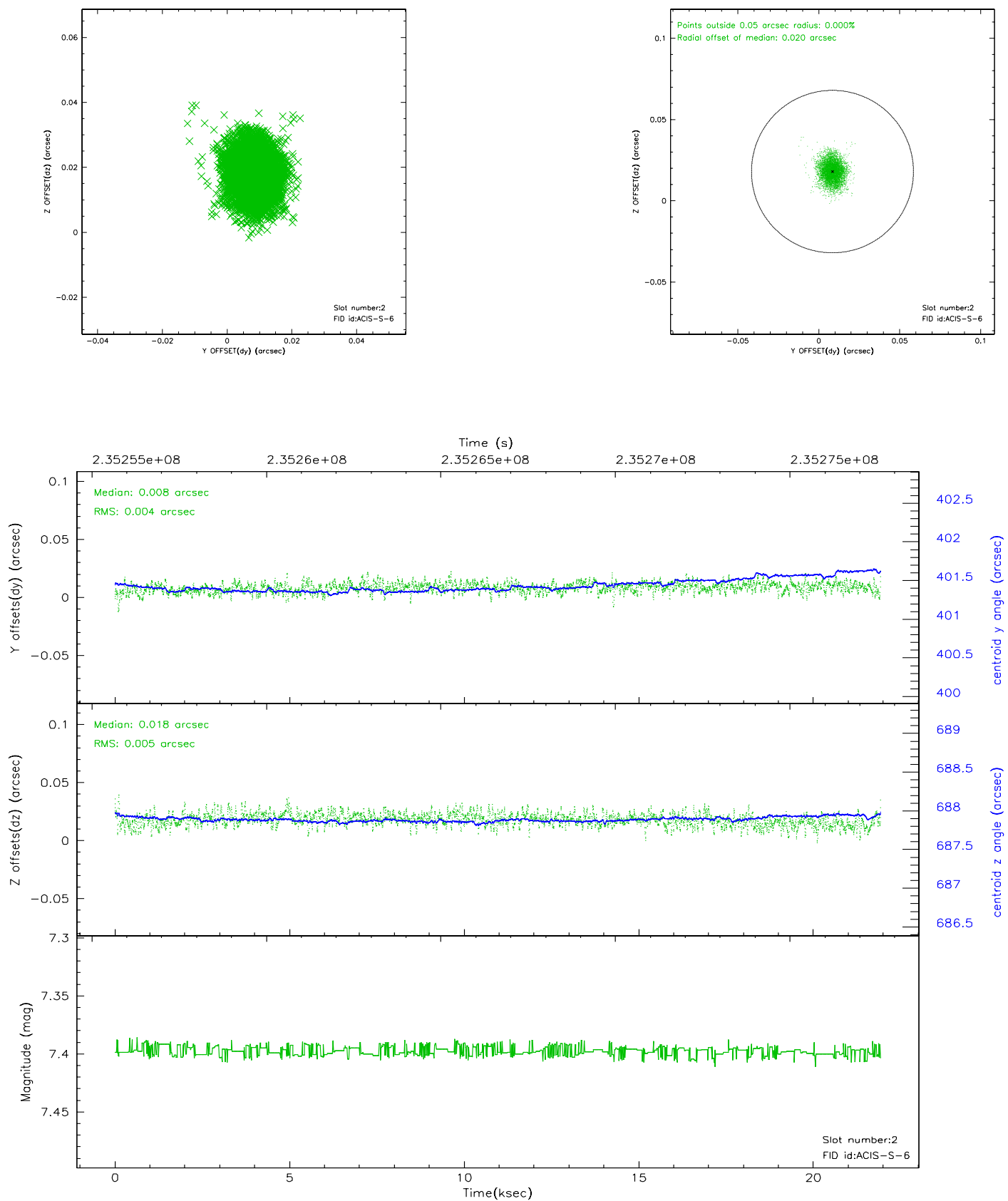
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

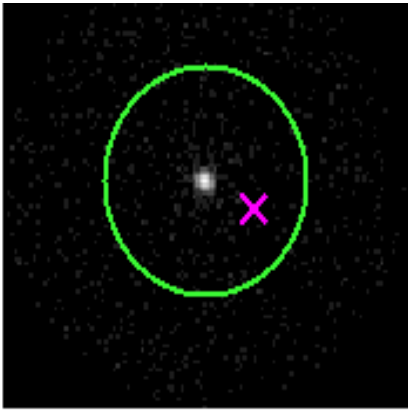


3 Gratings

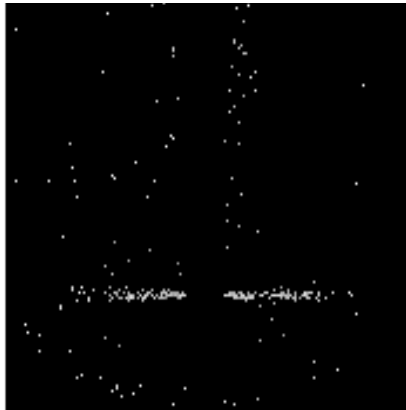
3.1 HEG Arm



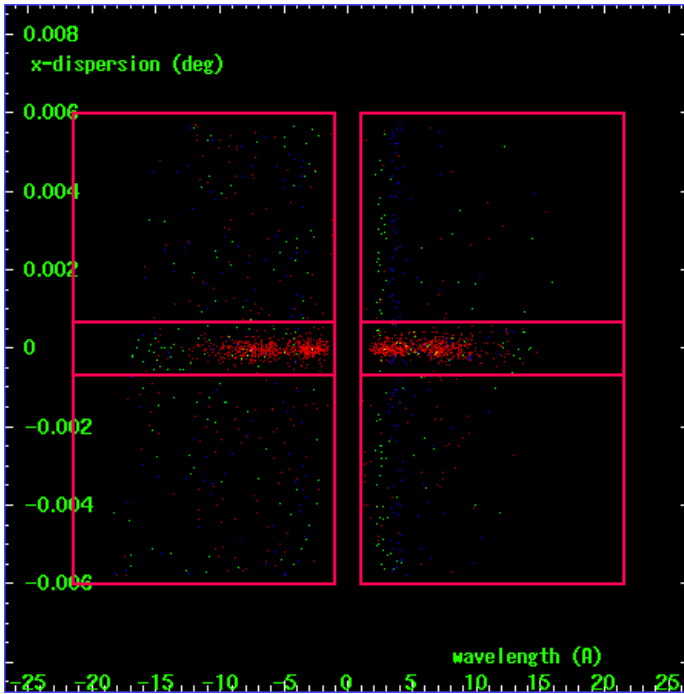
HEG Order Sort 123



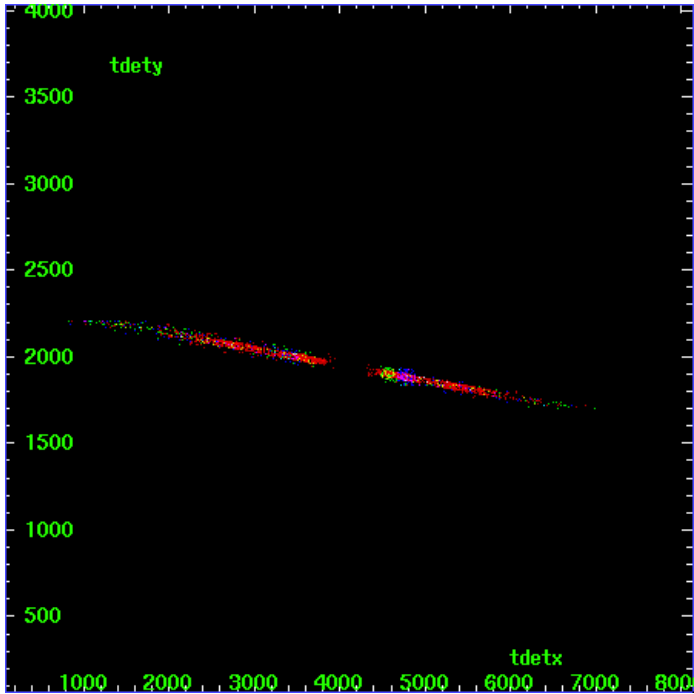
HEG Zero Order



HEG Order Sort ALL

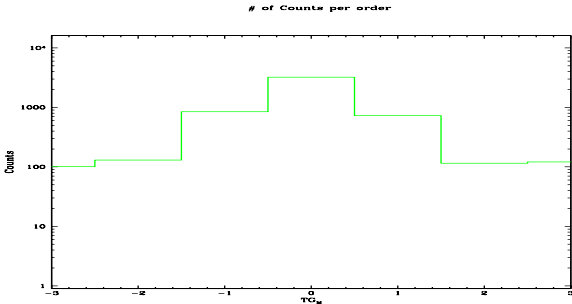


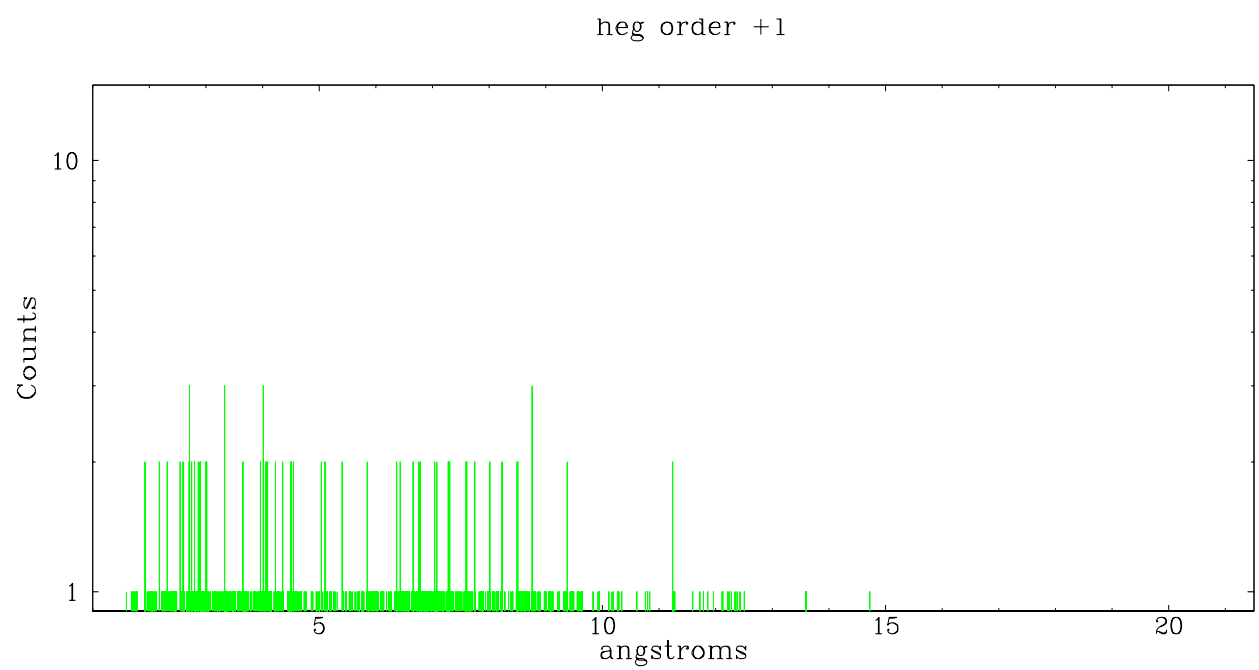
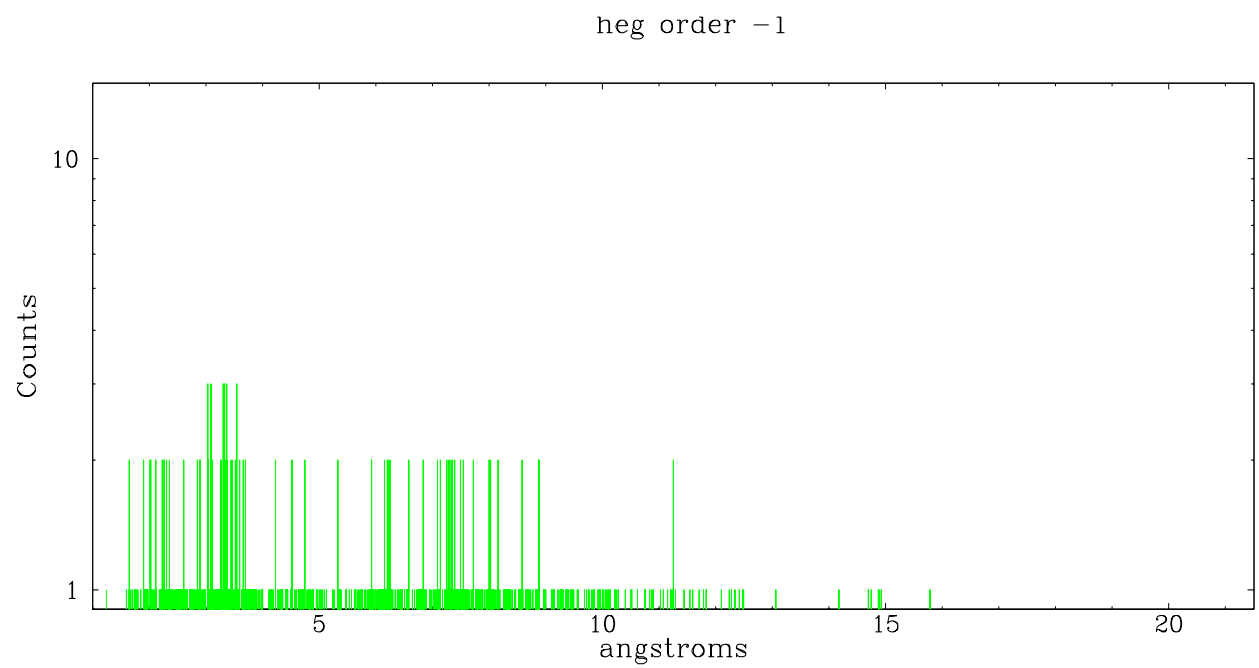
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	101	130	846	3208	725	115	121

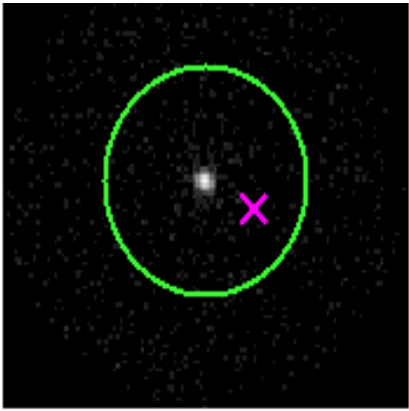




3.2 MEG Arm



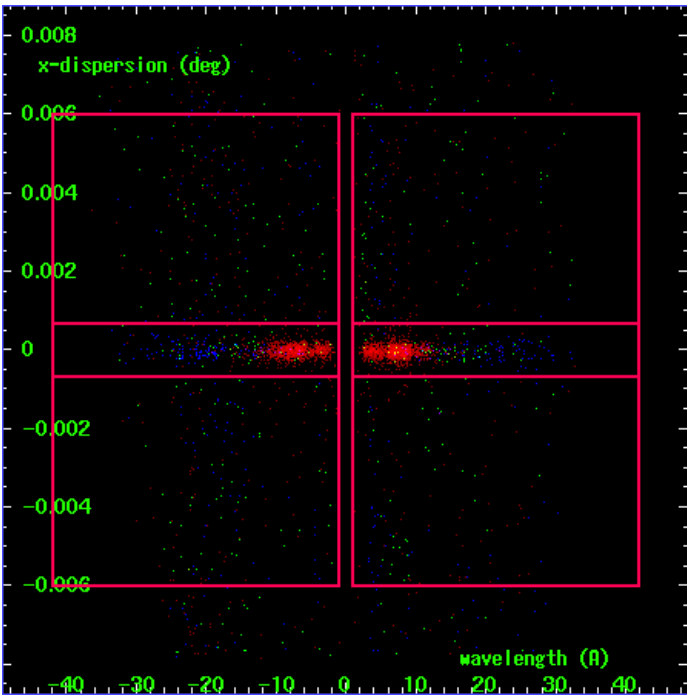
MEG Order Sort 123



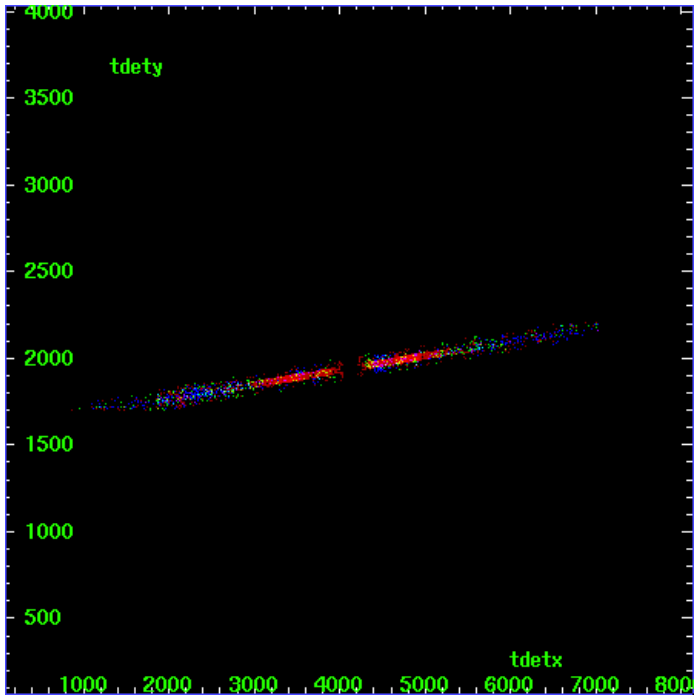
MEG Zero Order



MEG Order Sort ALL

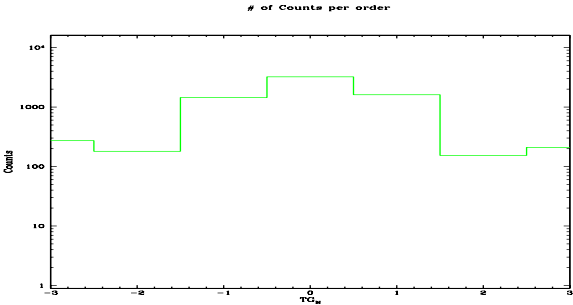


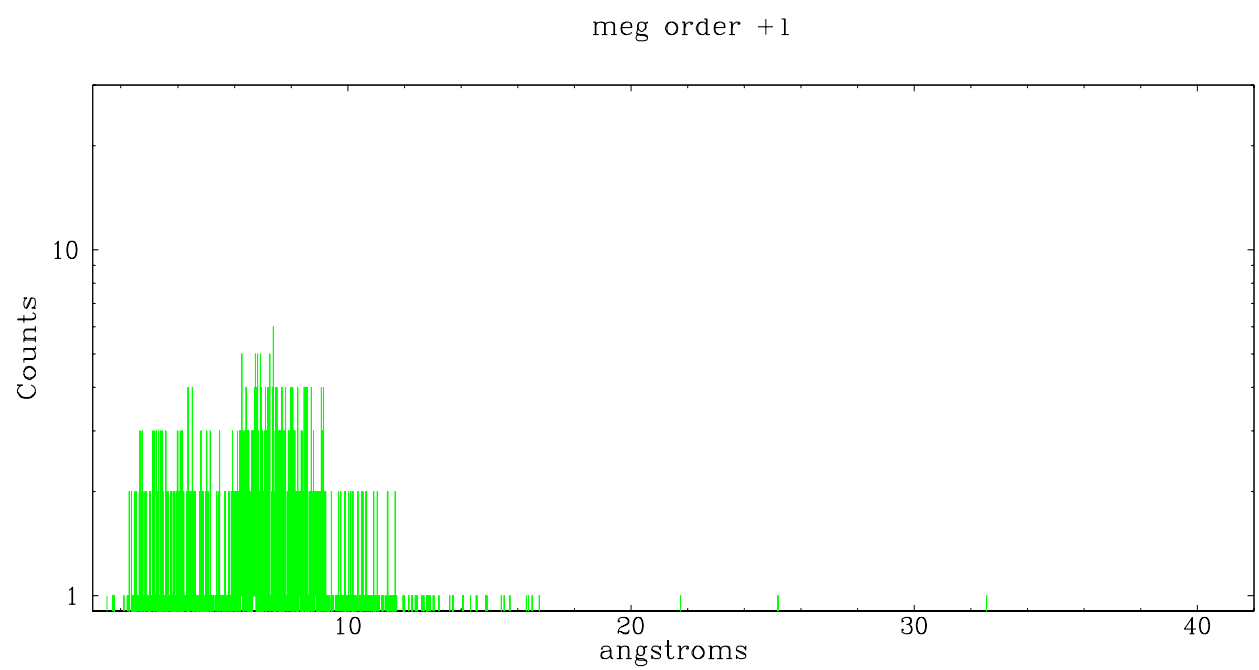
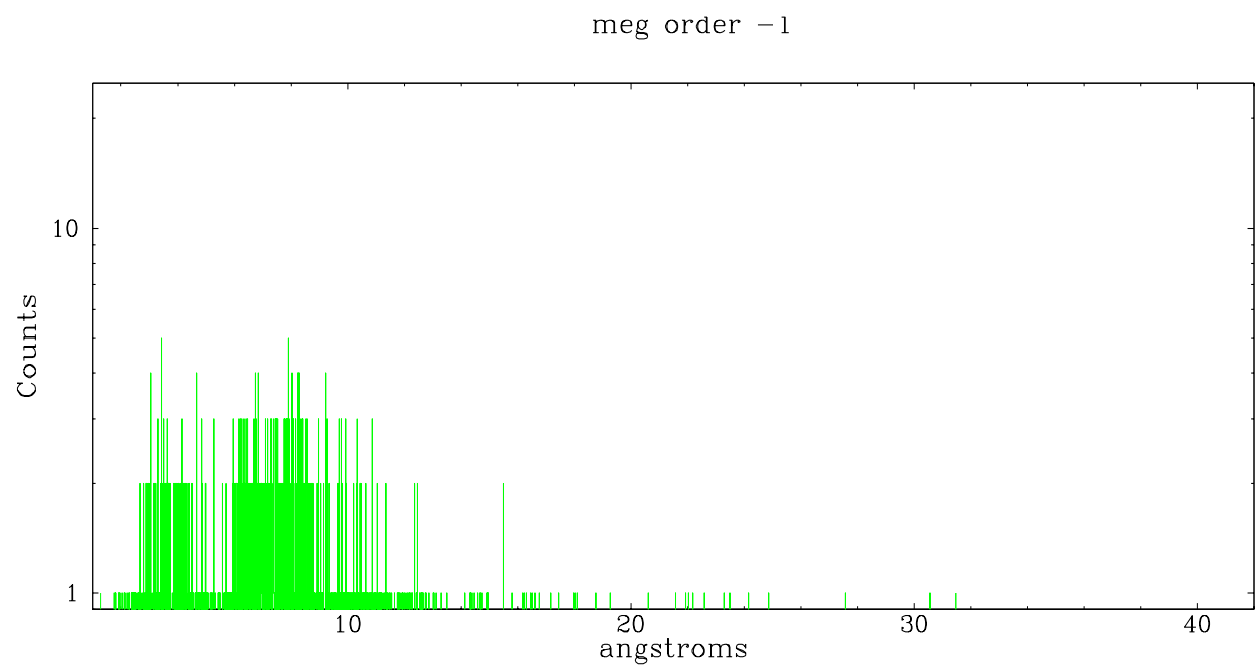
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	272	180	1440	3208	1611	154	210





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	21.73279

A.2 Comments