

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 2575 - L2 Version 001
Chandra X-Ray Center

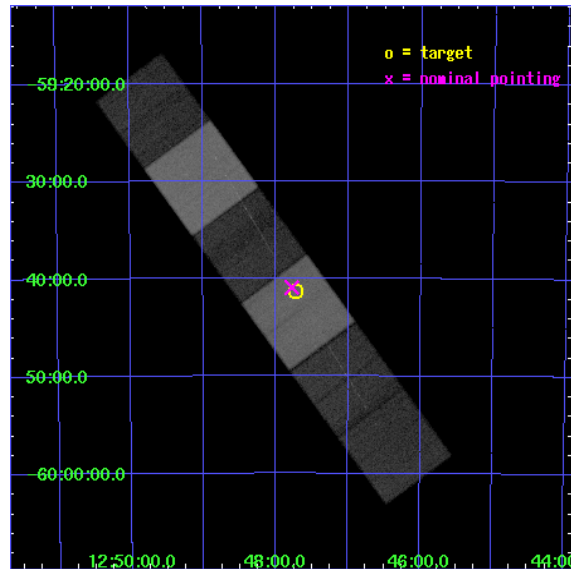
L2 Processing Date : Aug 31 2006

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

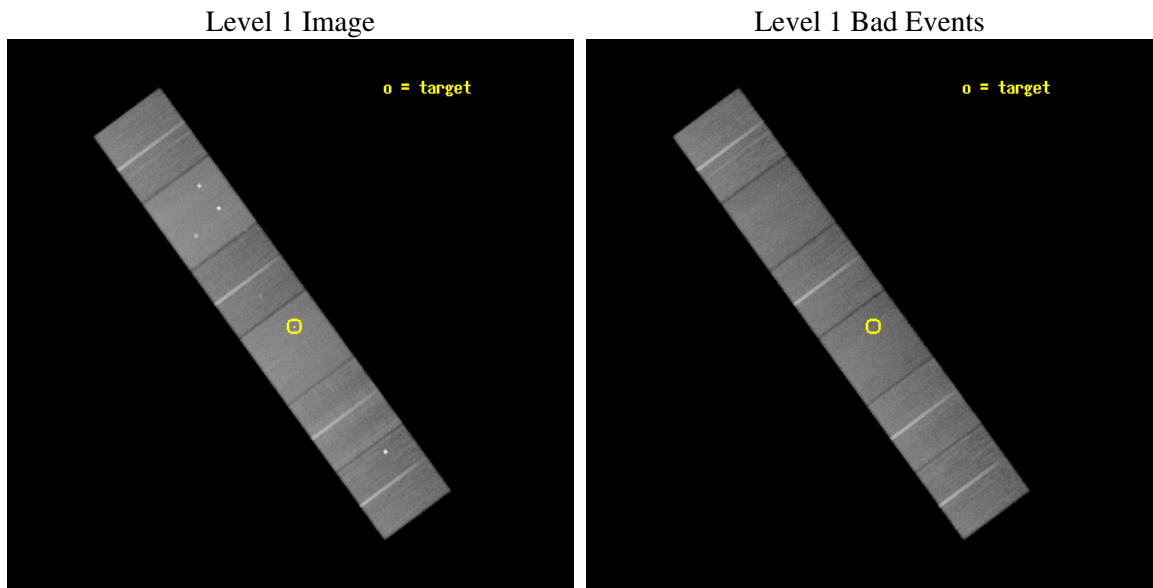
seq_num	200183
obs_id	2575
title	HIGH-RESOLUTION X-RAY SPECTROSCOPY OF BETA CRUCIS: A NEARBY HOT STAR WITH A HIGH X-RAY COUNT RATE
observer	Prof. David Cohen
object	BETA CRU
dtcycle	0
cycle	P
ra_targ	191.930417
dec_targ	-59.68875
ra_nom	191.94436369709
dec_nom	-59.682052654007
roll_nom	53.772465340358
revision	2
ontime	75334.400070161
livetime	74380.470535542
ontime4	75334.400070161
ontime5	75334.400070161
ontime6	75331.159109905
ontime7	75334.400070161
ontime8	75334.400070161
ontime9	75331.159109905
l2events	688350



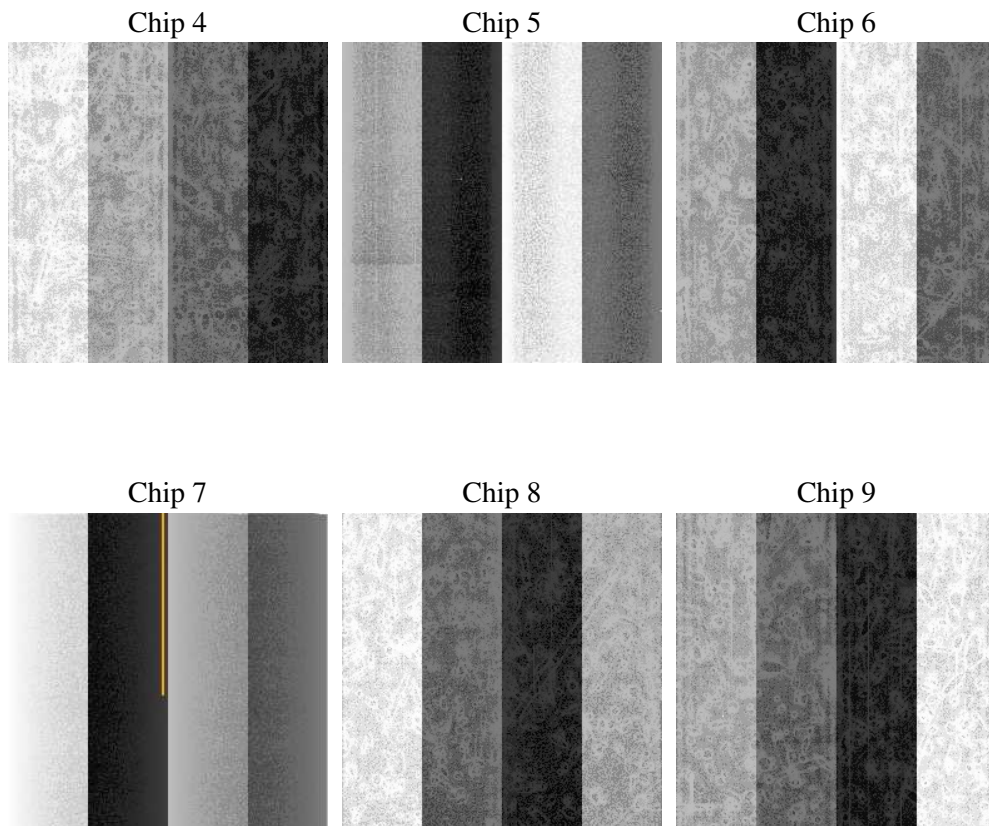
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-08-31T04:22:18
revision	2

sched_exp_time	75500.000000
ontime	75337.04036665
ontime4	75337.04036665
ontime5	75337.04036665
ontime6	75333.799406394
ontime7	75337.04036665
ontime8	75340.281376734
ontime9	75337.040416479
l1events	3288516

2.1.4 Events

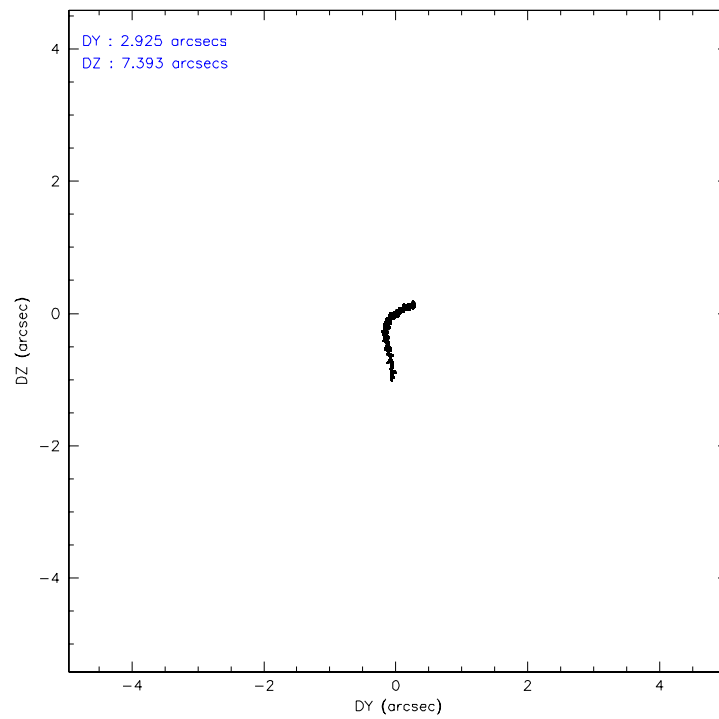
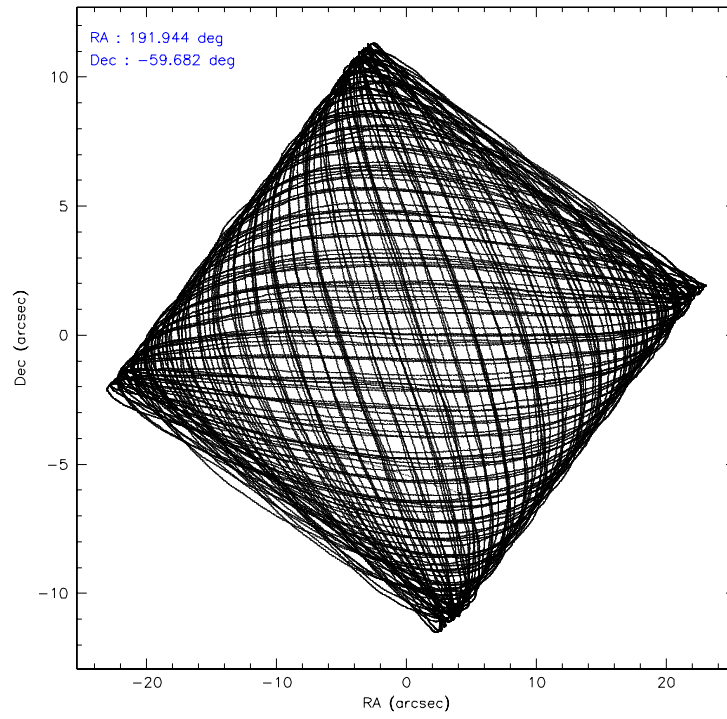
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	507104	667891	462314	601434	578607	471166
rejected events	450051	368935	407978	370370	460155	403457
rejected %	88%	55%	88%	61%	79%	85%

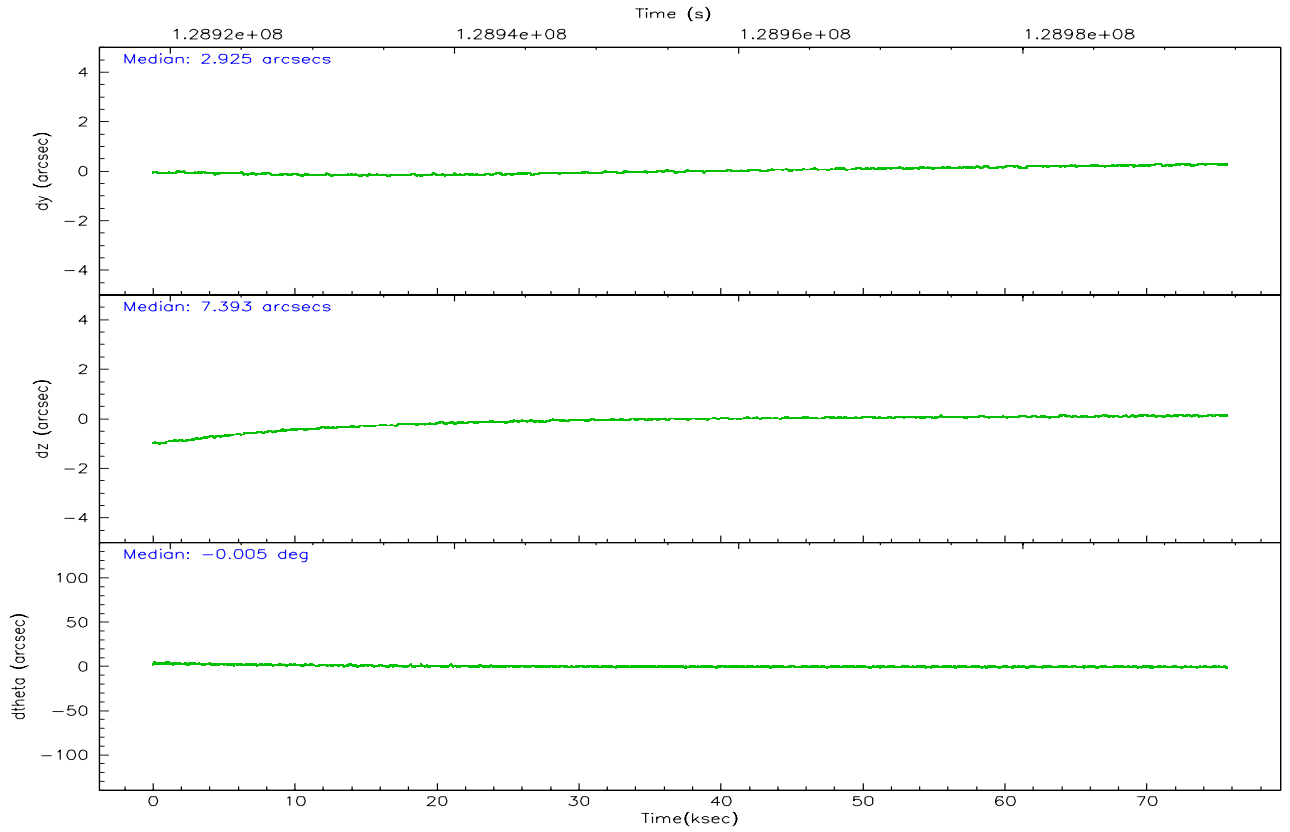
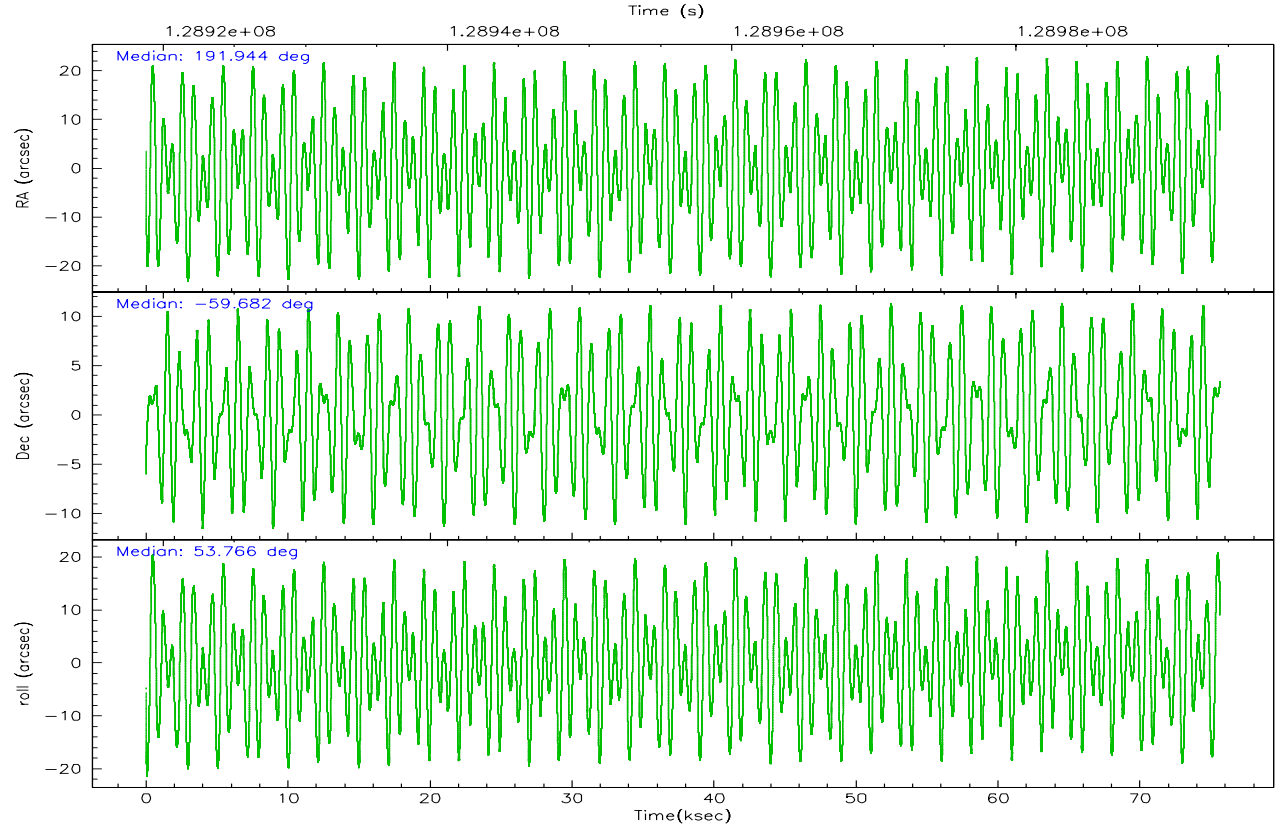
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	23025	35491	22163	14934	37104	34585
	4%	5%	4%	2%	6%	7%
grade 1 events	260	755	210	341	347	249
	0%	0%	0%	0%	0%	0%
grade 2 events	13886	87045	11021	56177	25853	11463
	2%	13%	2%	9%	4%	2%
grade 3 events	5122	6497	5412	12398	12644	5511
	1%	0%	1%	2%	2%	1%
grade 4 events	5032	6237	5144	12025	11738	5135
	0%	0%	1%	1%	2%	1%
grade 5 events	16971	31369	20183	40962	25671	20442
	3%	4%	4%	6%	4%	4%
grade 6 events	9989	163703	10602	135538	31119	11020
	1%	24%	2%	22%	5%	2%
grade 7 events	432819	336794	387579	329059	434131	382761
	85%	50%	83%	54%	75%	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	NONE	NONE
Pointing RA	191.939147	191.9443636970923	Alternating exposures requested	N	N
Pointing Dec	-59.709180	-59.68205265400651	Primary exposure time	0.000000	3.2
Pointing Roll	53.611334	53.77246534035844			
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	128918917.184000	128917888.24498			
Observation start date	2002-02-01T02:47:33	2002-02-01T02:31:28			
Observation end time	128994417.184000	128995021.54809			
Observation end date	2002-02-01T23:45:53	2002-02-01T23:57:01			
Read mode	TIMED	TIMED			

2.3 Aspect



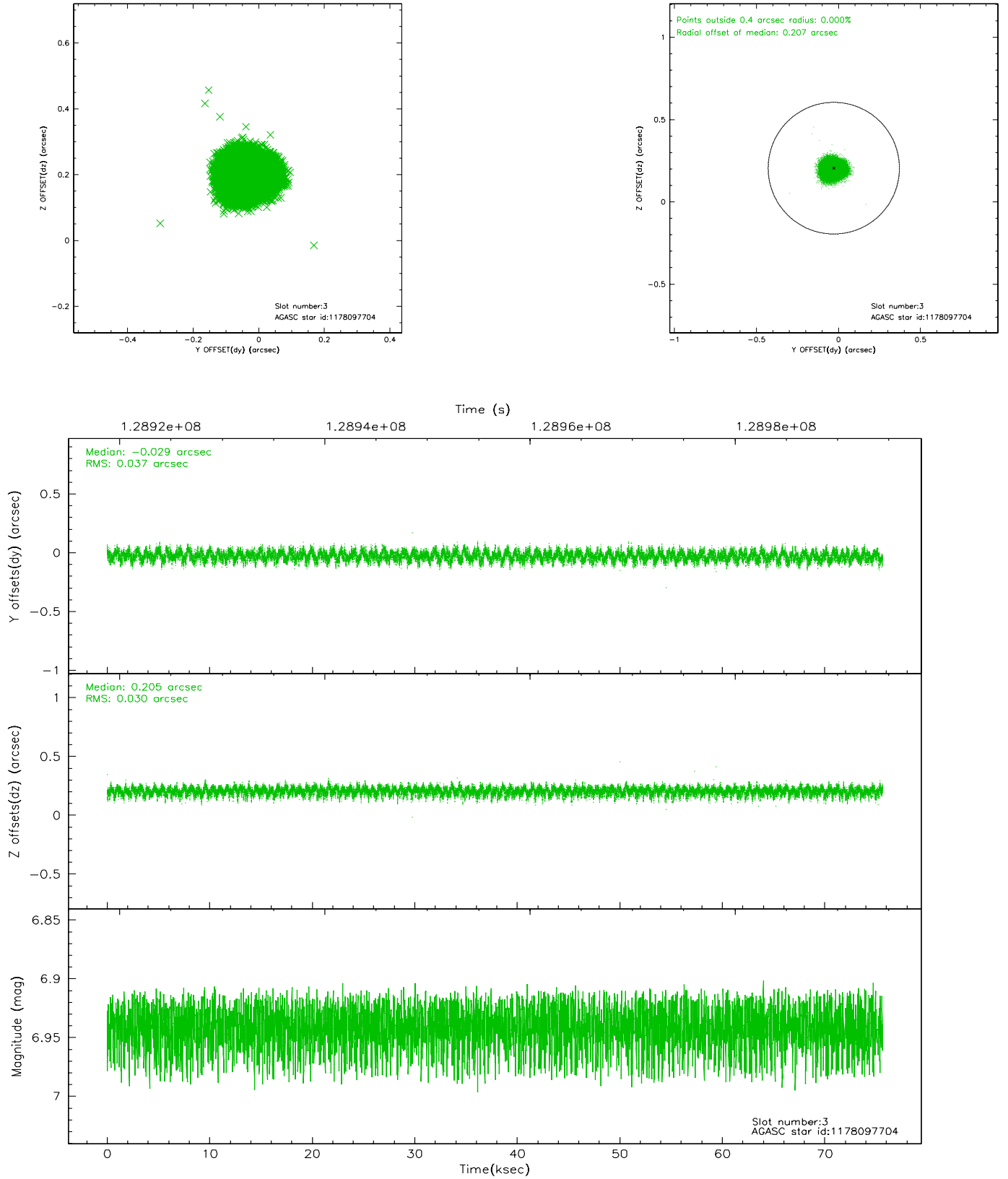


Slot Statistics

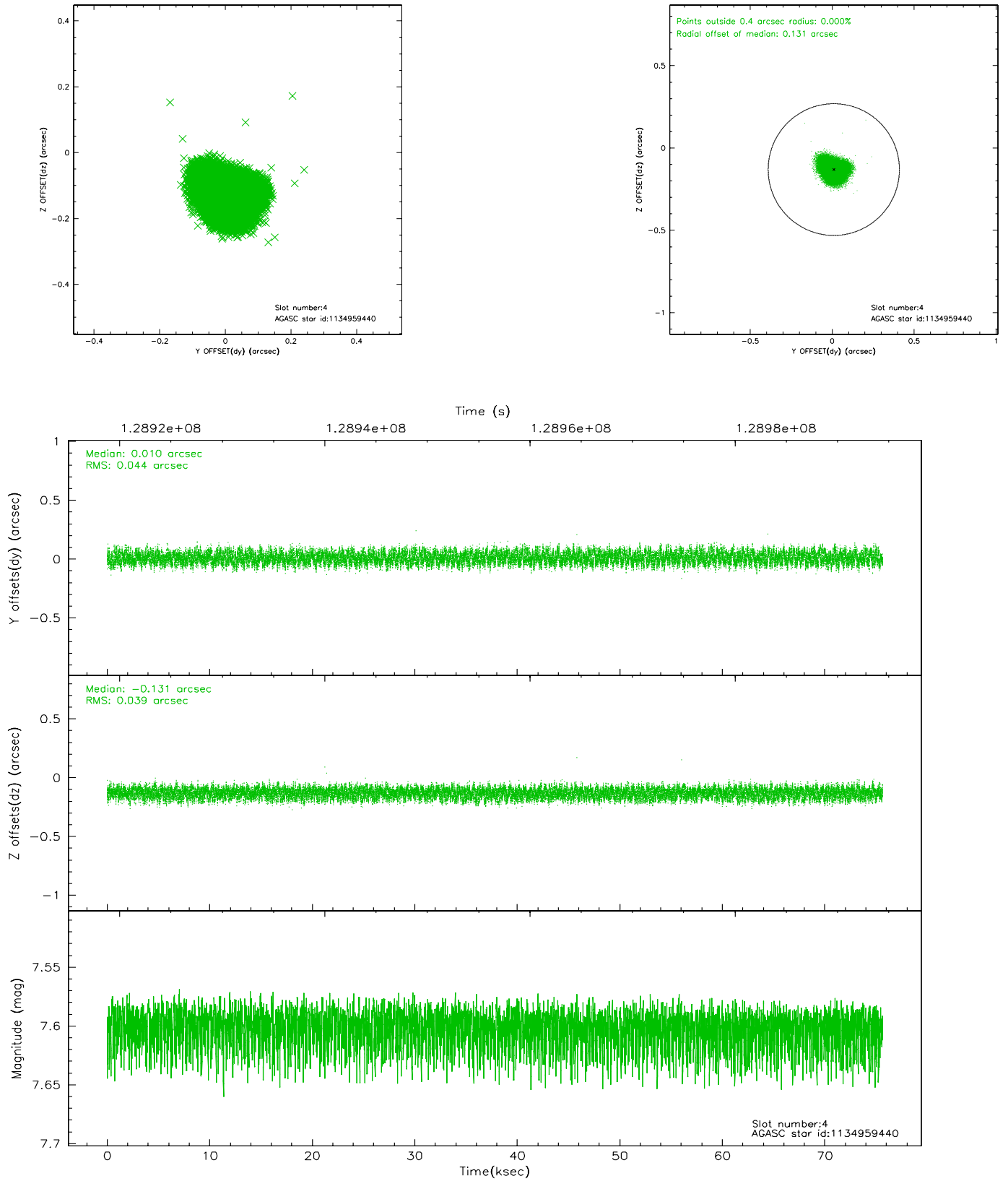
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	18446	-0.037	-0.011	0.010	0.024	0.000000	0.000000	-755.40	-1790.56
1	FID	ACIS-S-4	7.20	18445	-0.041	0.021	0.009	0.015	0.000000	0.000000	2157.88	118.05
2	FID	ACIS-S-5	7.23	18449	0.046	-0.001	0.011	0.022	0.000000	0.000000	-1808.26	111.58
3	GUIDE	1178097704	6.94	36898	-0.029	0.205	0.051	0.082	192.549177	-60.400526	-1363.52	-2353.24
4	GUIDE	1134959440	7.60	36898	0.010	-0.131	0.064	0.096	192.010141	-59.593268	412.94	142.68
5	GUIDE	1178080016	7.77	36894	0.148	0.036	0.053	0.084	191.754209	-60.407383	-2218.26	-1227.60
6	GUIDE	1134969560	8.19	36891	-0.186	0.226	0.072	0.112	192.888547	-59.282012	2263.58	-500.42
7	GUIDE	1134970496	9.21	36882	0.054	-0.331	0.110	0.167	190.891128	-59.325308	-41.34	2359.37

2.4 Star Slots

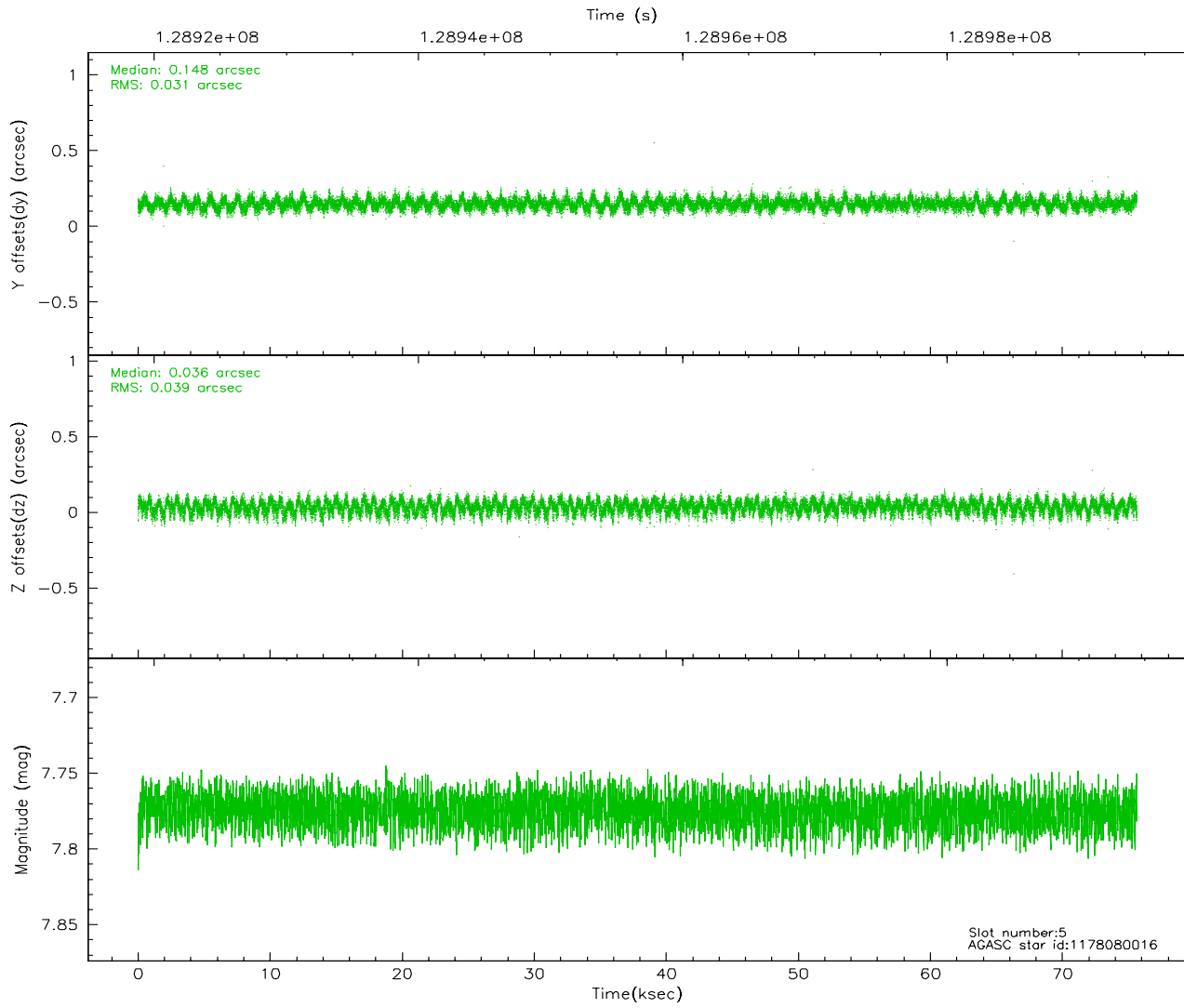
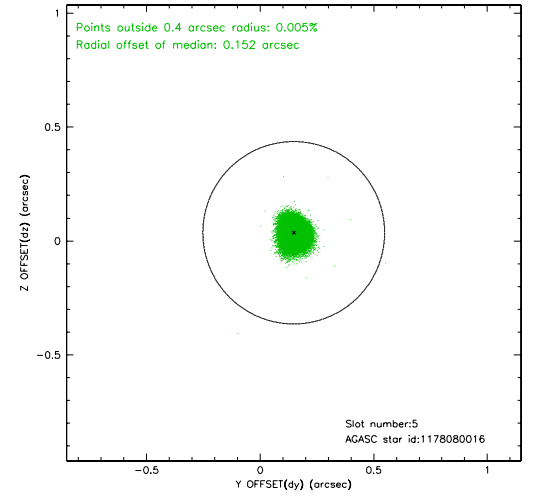
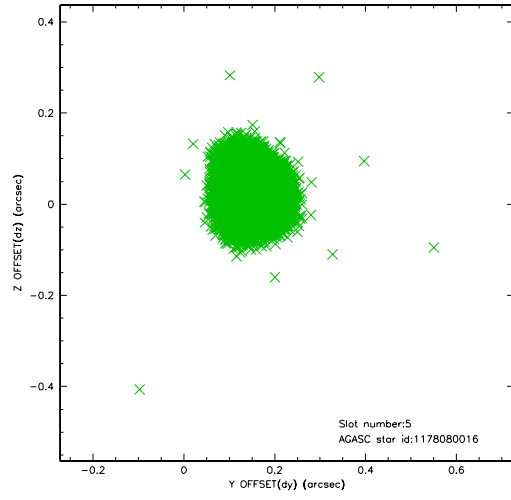
2.4.1 Slot 3



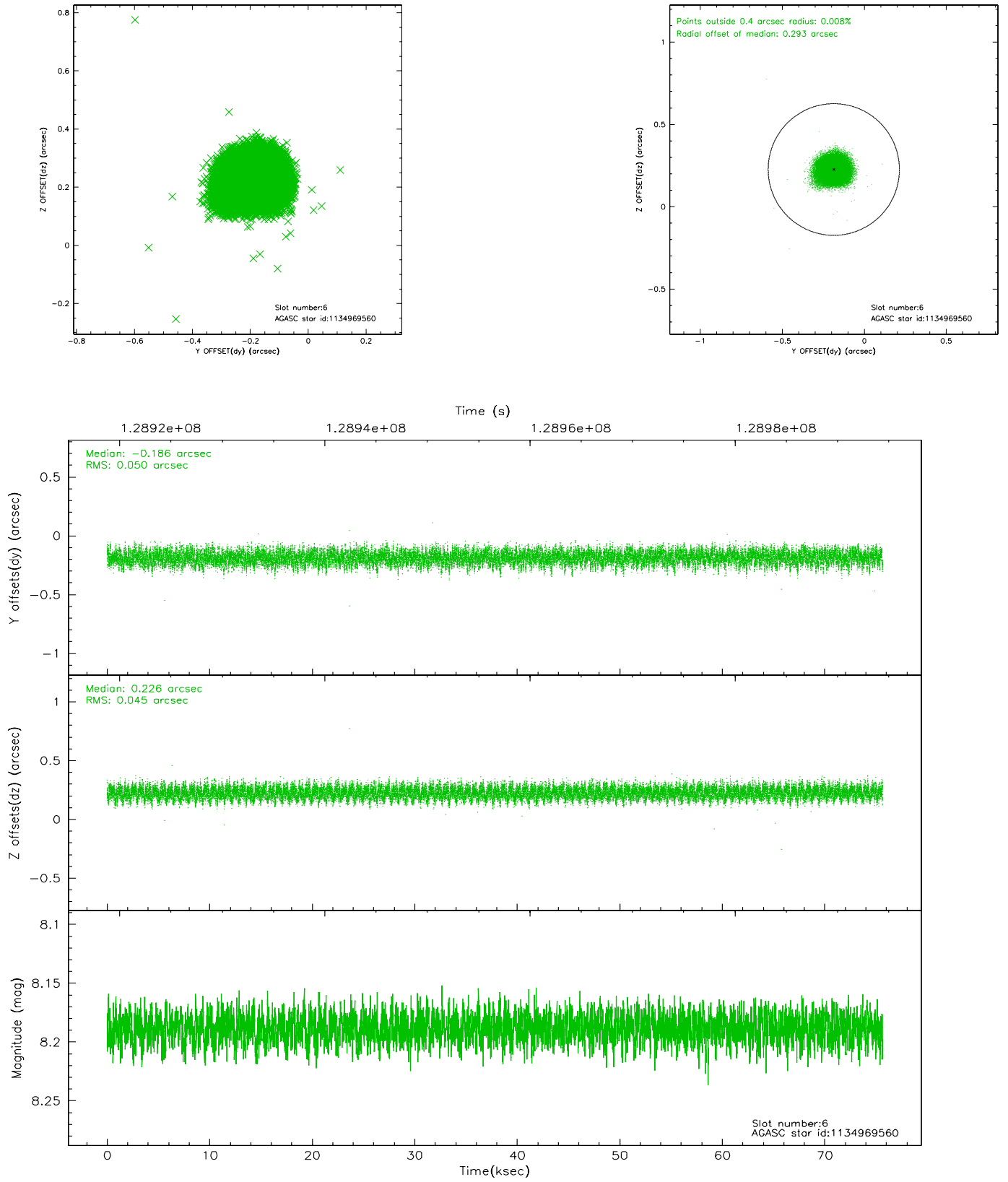
2.4.2 Slot 4



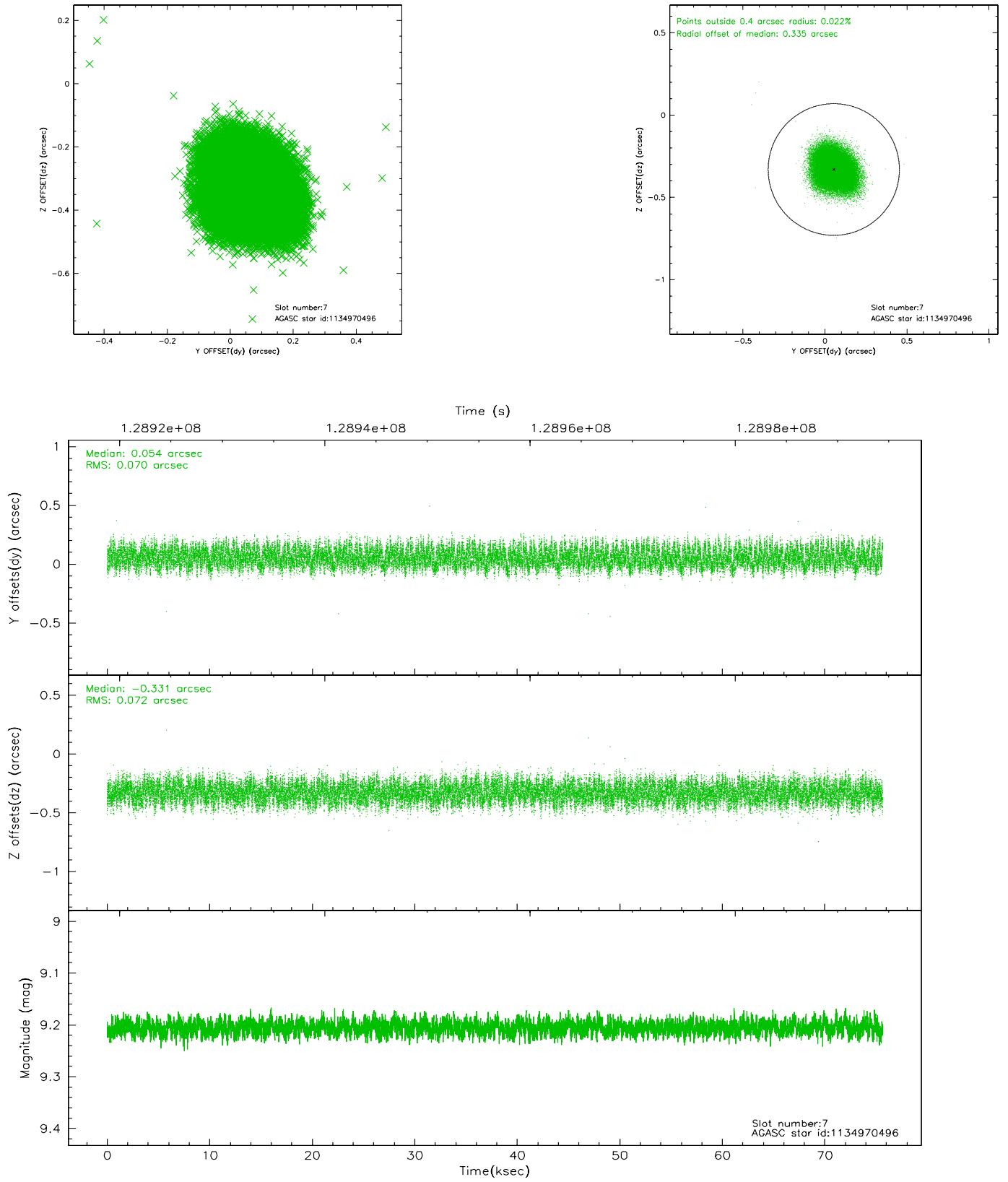
2.4.3 Slot 5



2.4.4 Slot 6

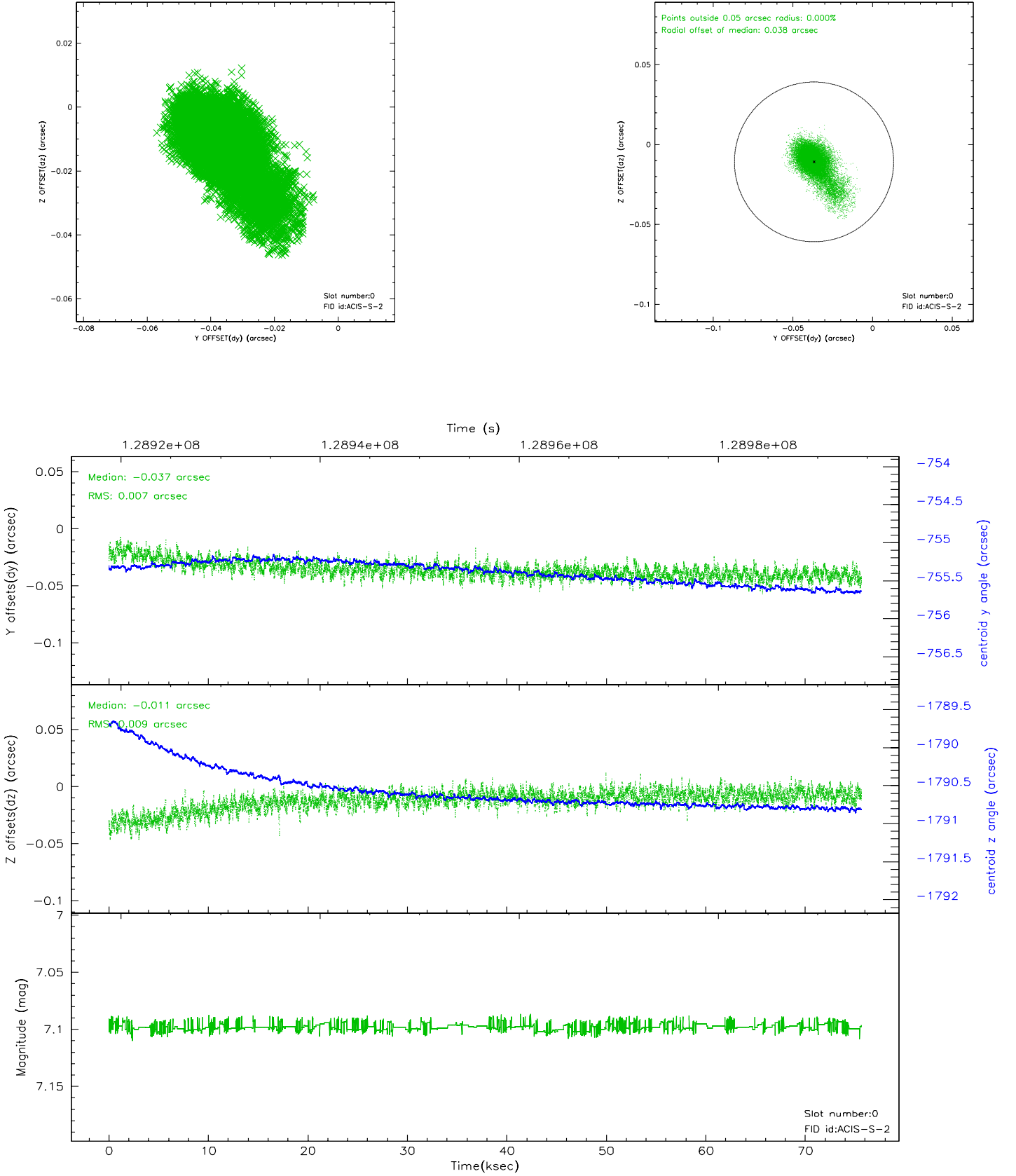


2.4.5 Slot 7

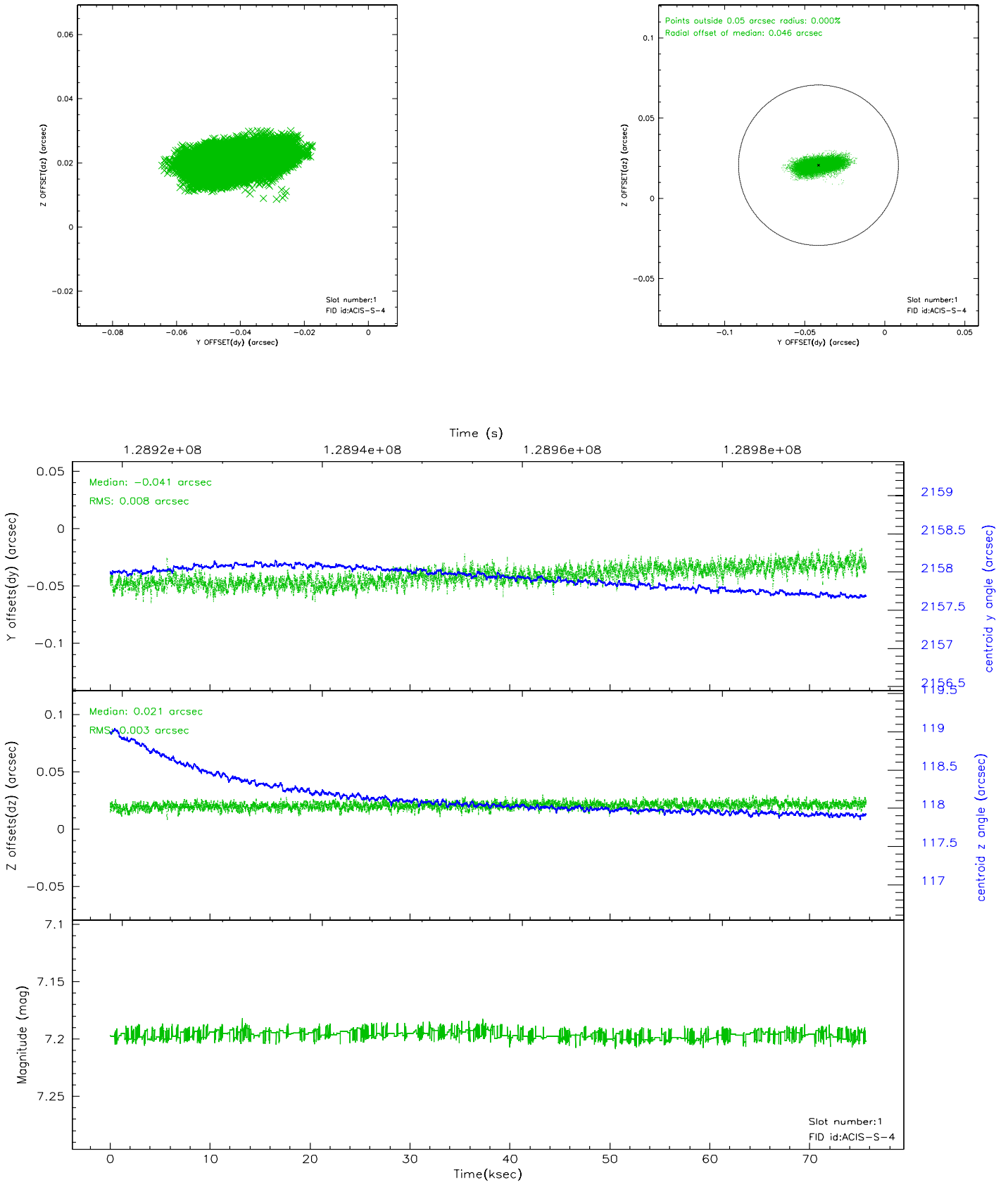


2.5 FID Slots

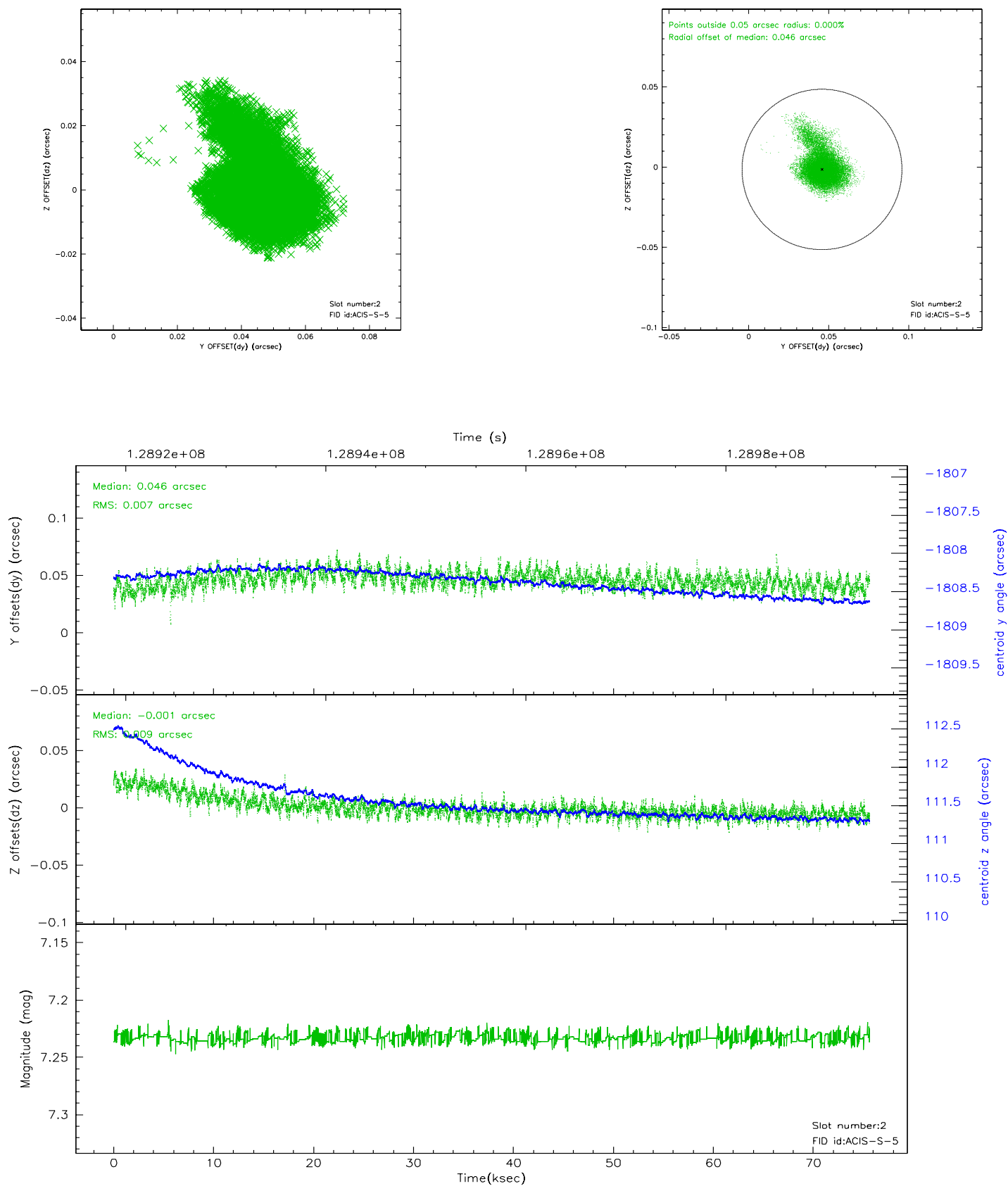
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Gratings

3.1 HEG Arm



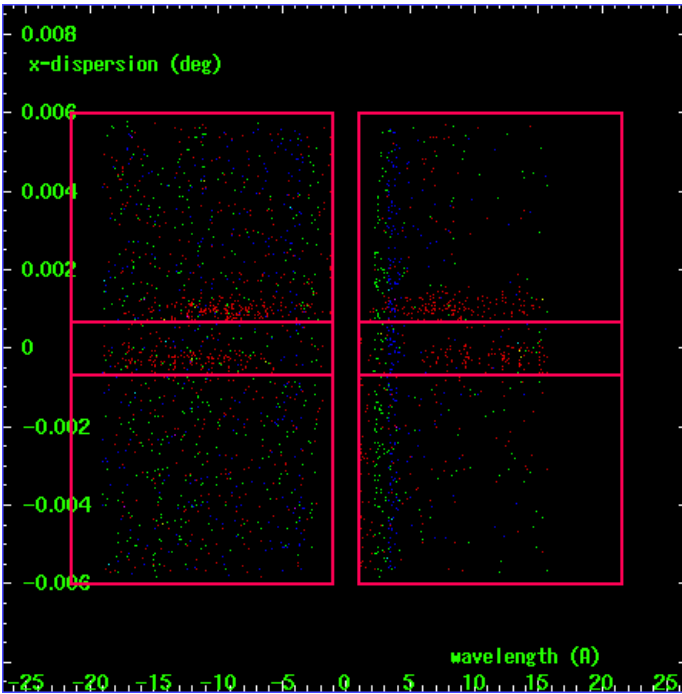
HEG Order Sort 123



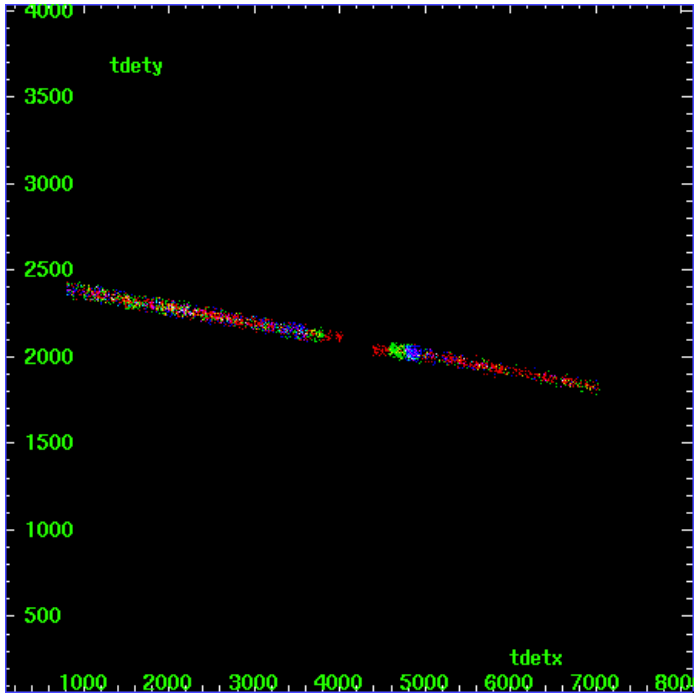
HEG Zero Order



HEG Order Sort ALL

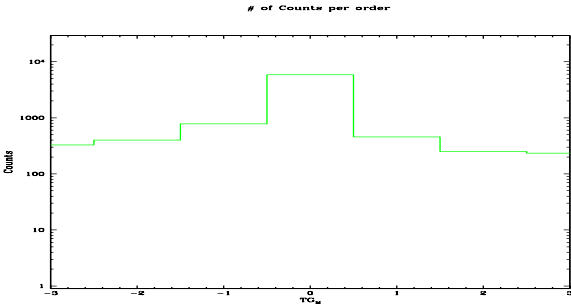


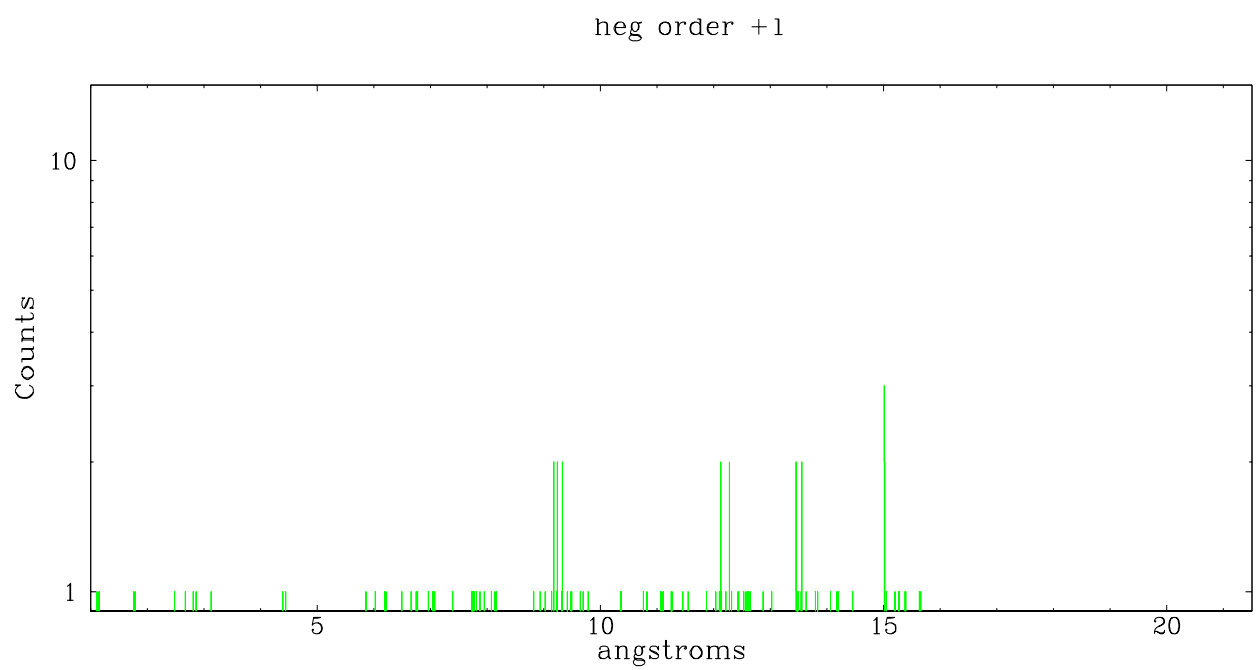
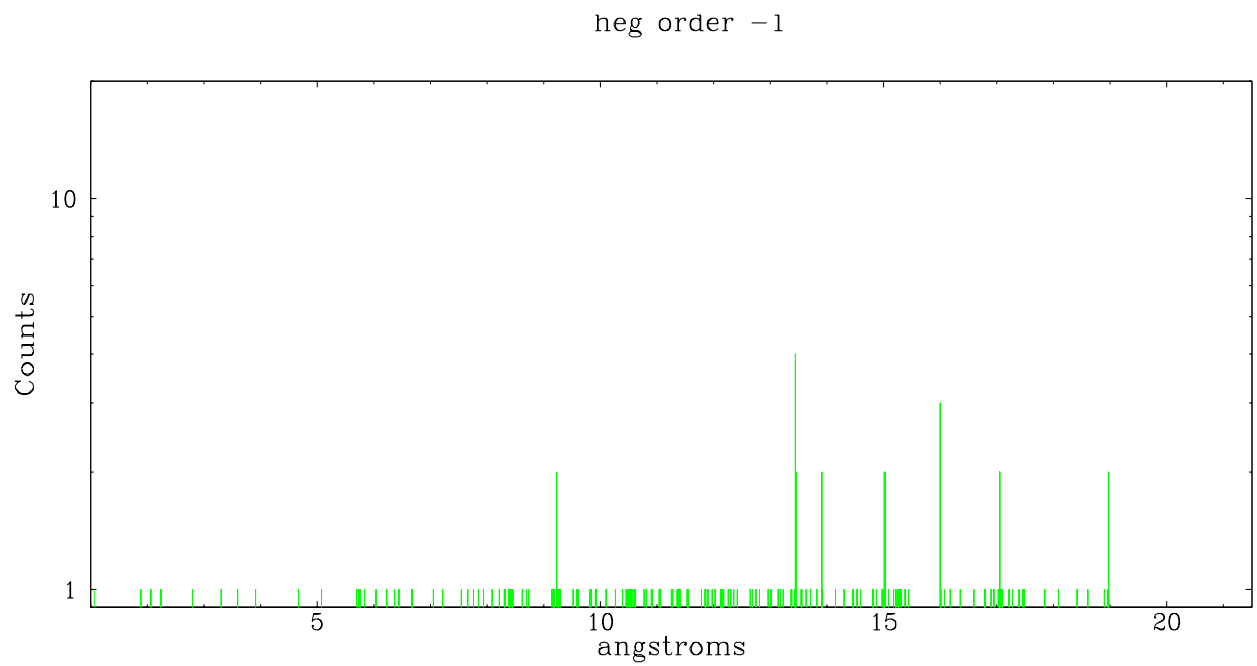
Spot Image HEG



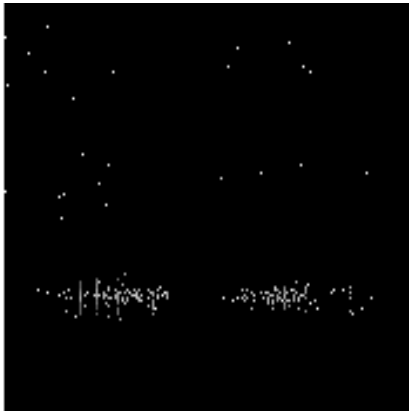
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	328	400	779	5837	457	251	235





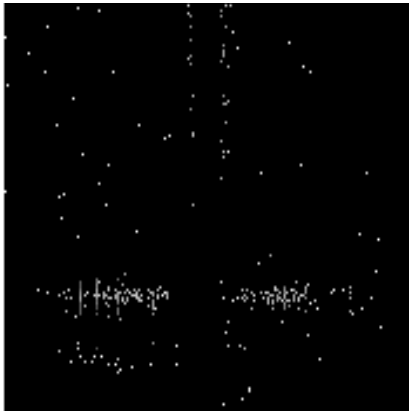
3.2 MEG Arm



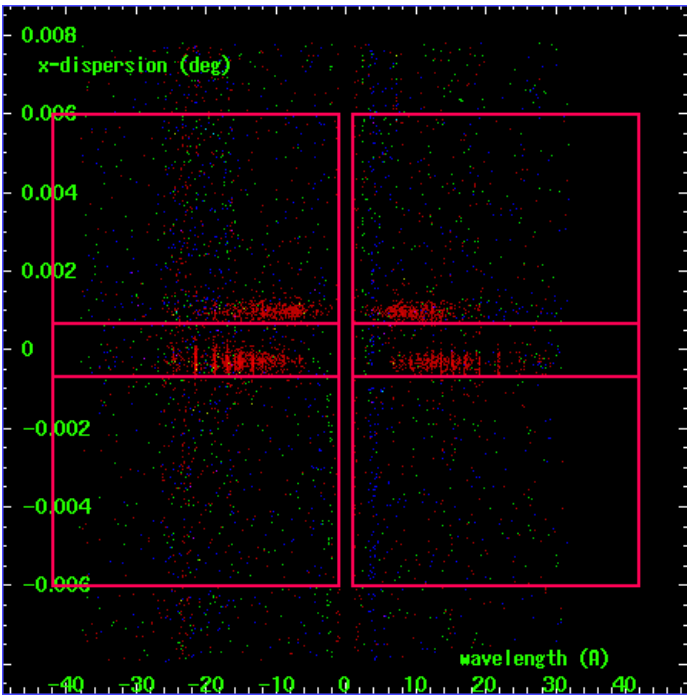
MEG Order Sort 123



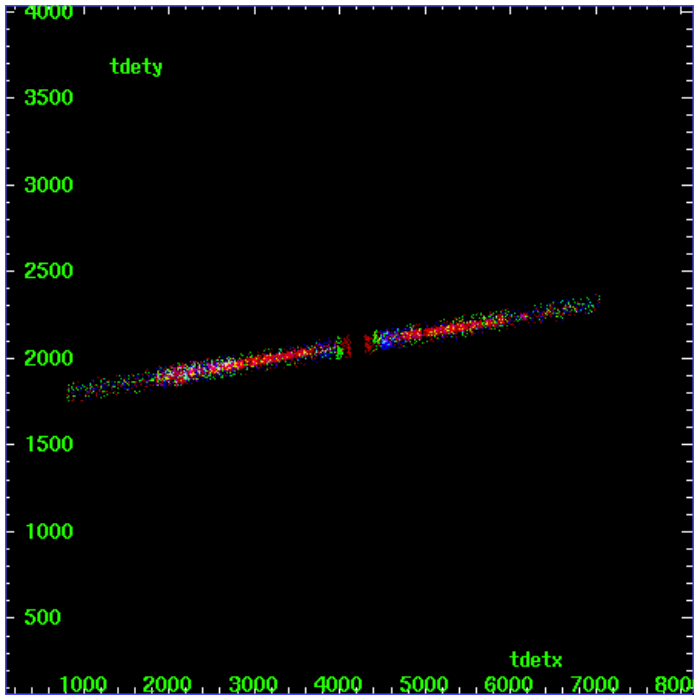
MEG Zero Order



MEG Order Sort ALL

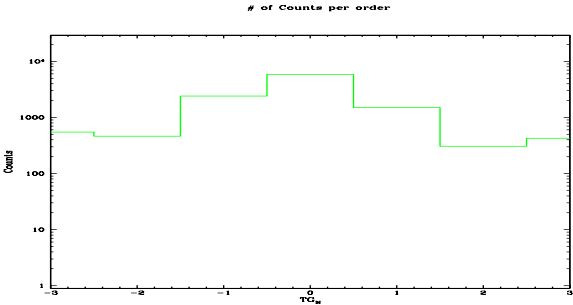


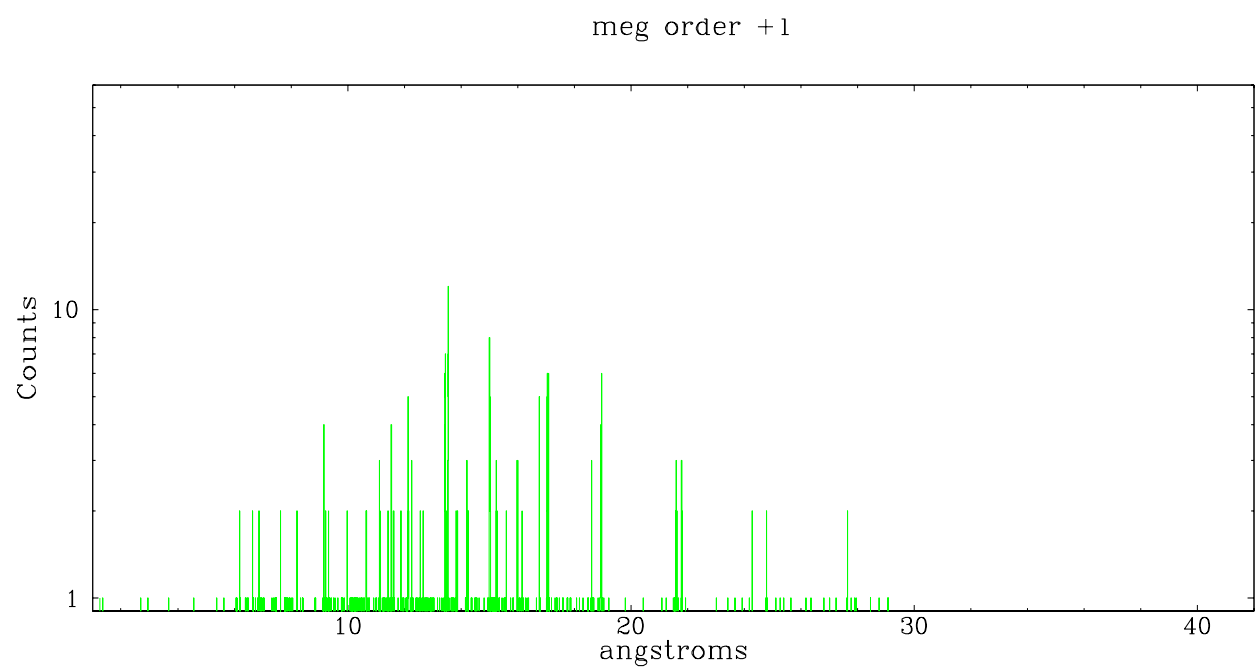
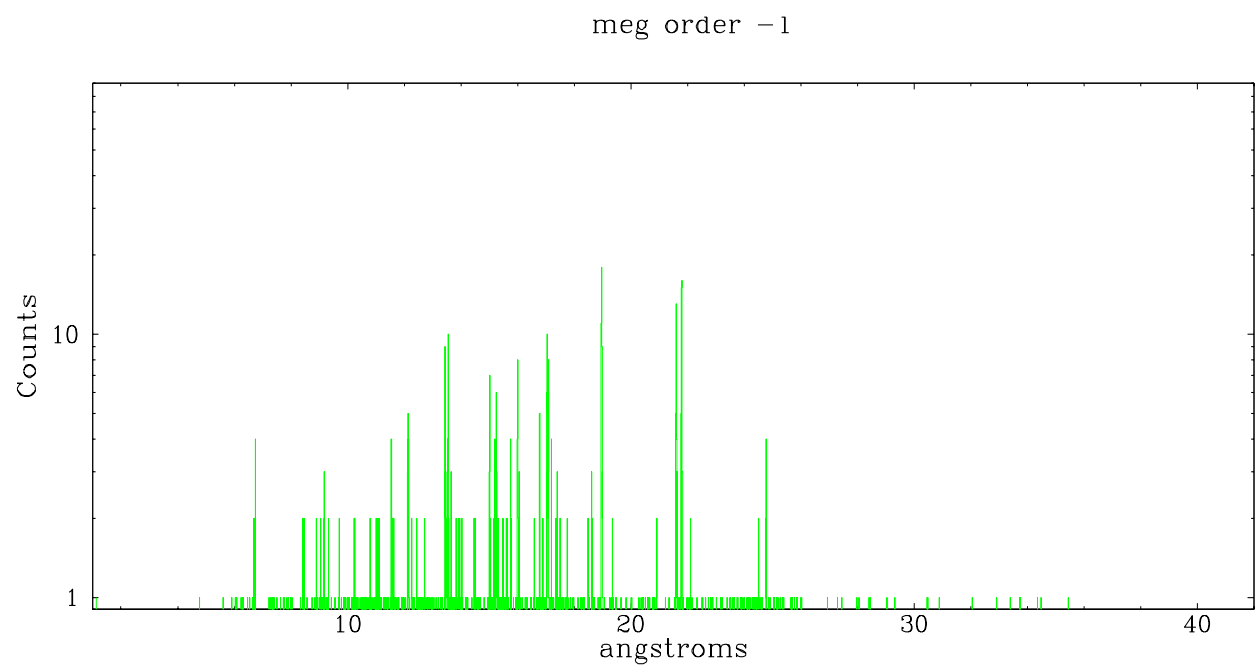
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	548	463	2415	5837	1503	307	427





A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	75.334

A.2 Comments

Double source.