

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 4364 - L2 Version 001
Chandra X-Ray Center

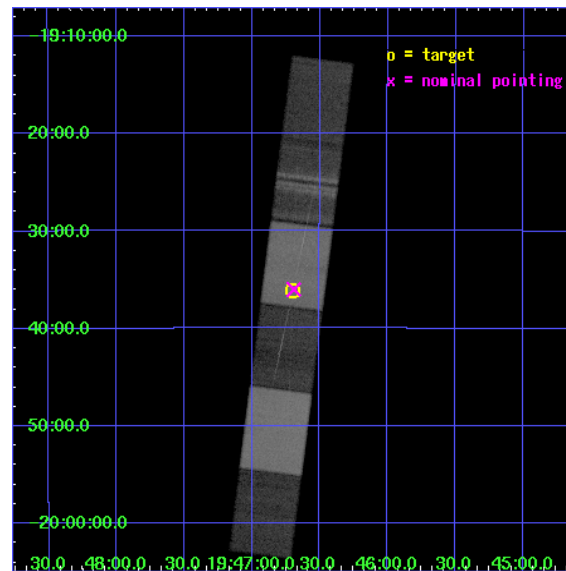
L2 Processing Date : Oct 13 2006

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1 Front

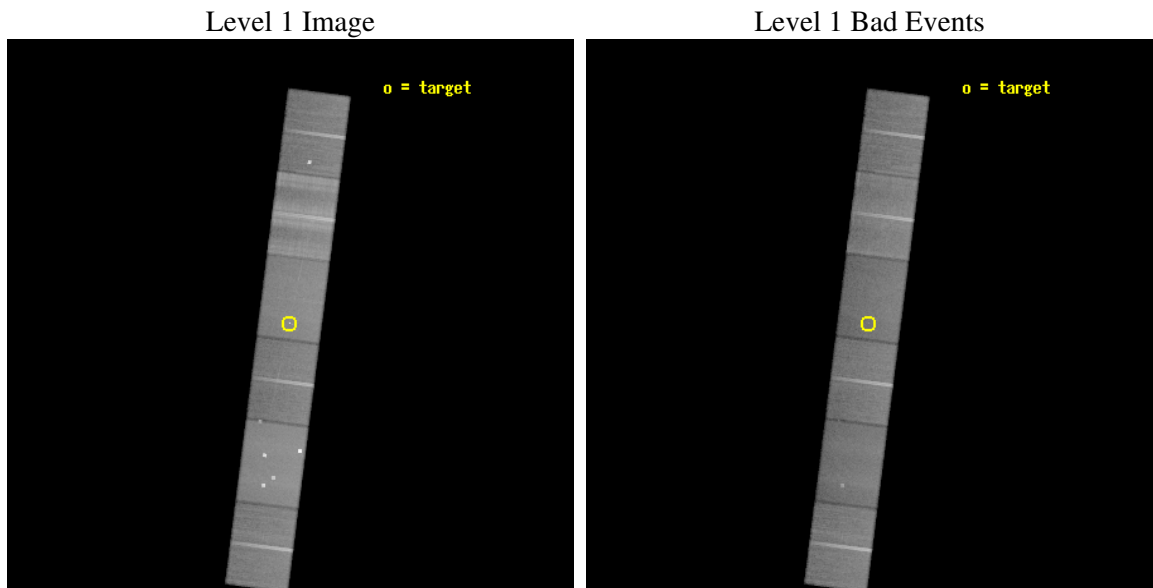
seq_num	500404
obs_id	4364
title	GRATING OBSERVATION OF GRB020813
observer	Dr. george Ricker
object	GRB020813
dtcycle	0
cycle	P
ra_targ	296.674583
dec_targ	-19.601417
ra_nom	296.67261774531
dec_nom	-19.600173444943
roll_nom	277.30792686375
revision	2
ontime	78120.0
livetime	76858.294241727
ontime4	78120.0
ontime5	78120.0
ontime6	78120.0
ontime7	78120.0
ontime8	78120.0
ontime9	78120.0
l2events	616338



2 OBI

2.1 OBI

2.1.1 Images

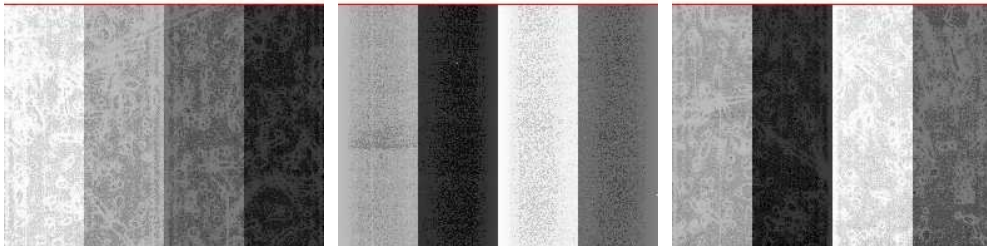


2.1.2 Bias

Chip 4

Chip 5

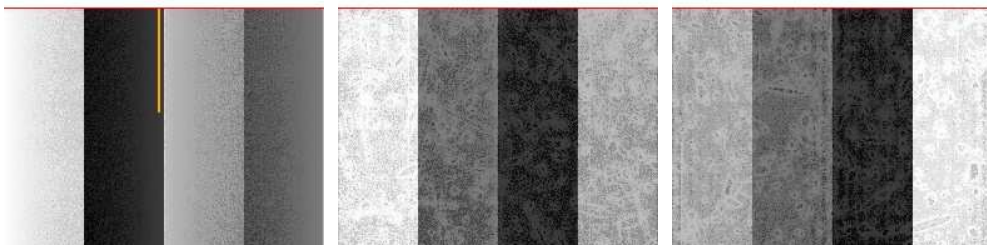
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-30T18:41:49
revision	2

sched_exp_time	77960.656000
ontime	78126.023969173
ontime4	78126.023969173
ontime5	78126.023969173
ontime6	78126.023969173
ontime7	78126.023969173
ontime8	78126.023969173
ontime9	78126.023969173
l1events	3050689

2.1.4 Events

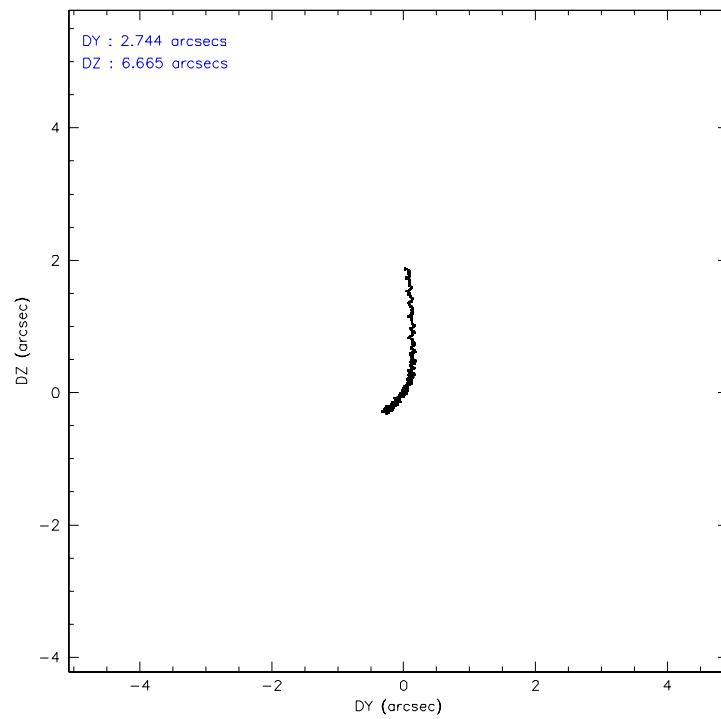
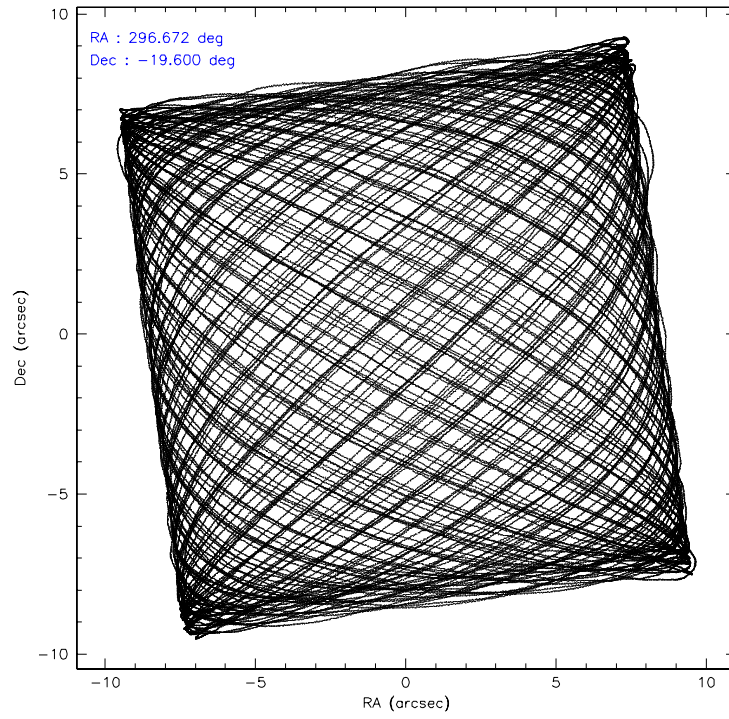
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	452186	599367	421428	505563	656285	415860
rejected events	395730	311328	370254	304663	431057	357177
rejected %	87%	51%	87%	60%	65%	85%

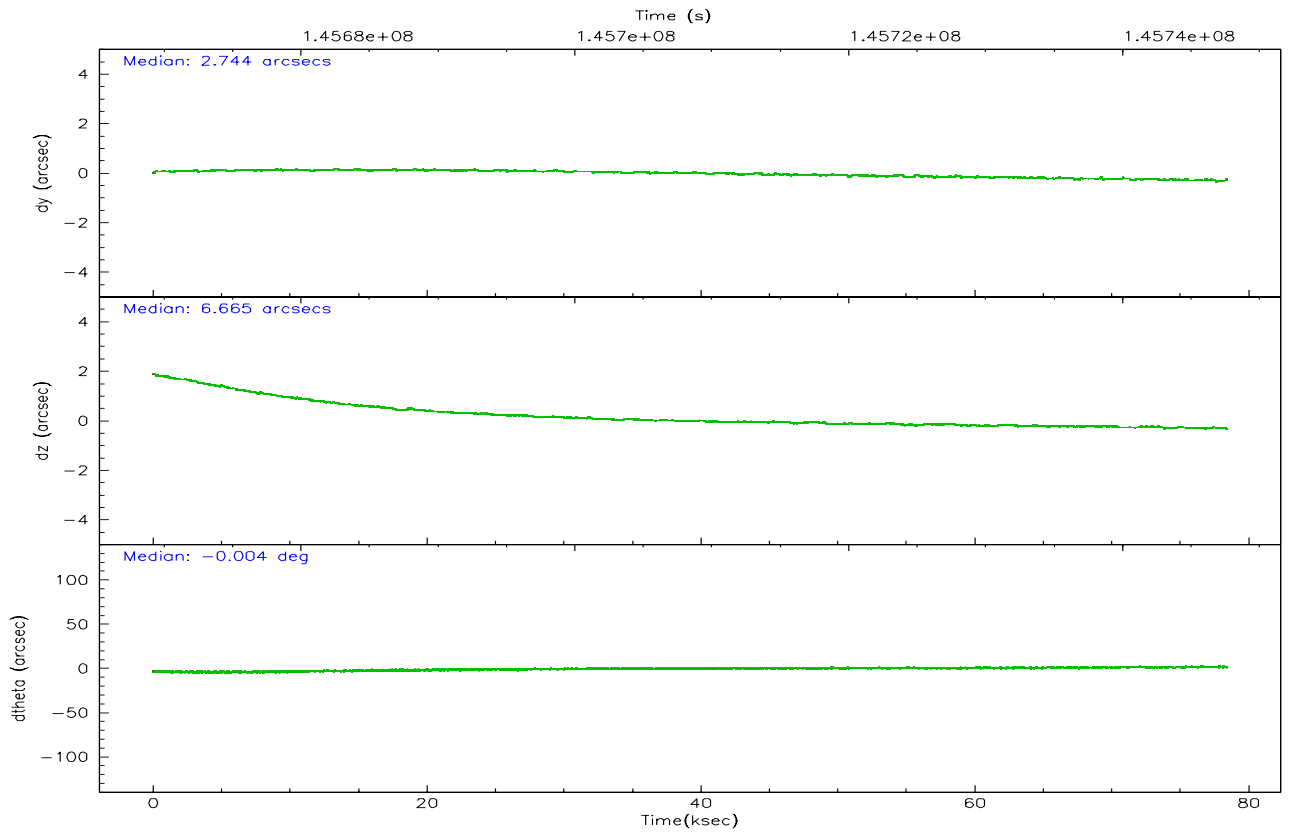
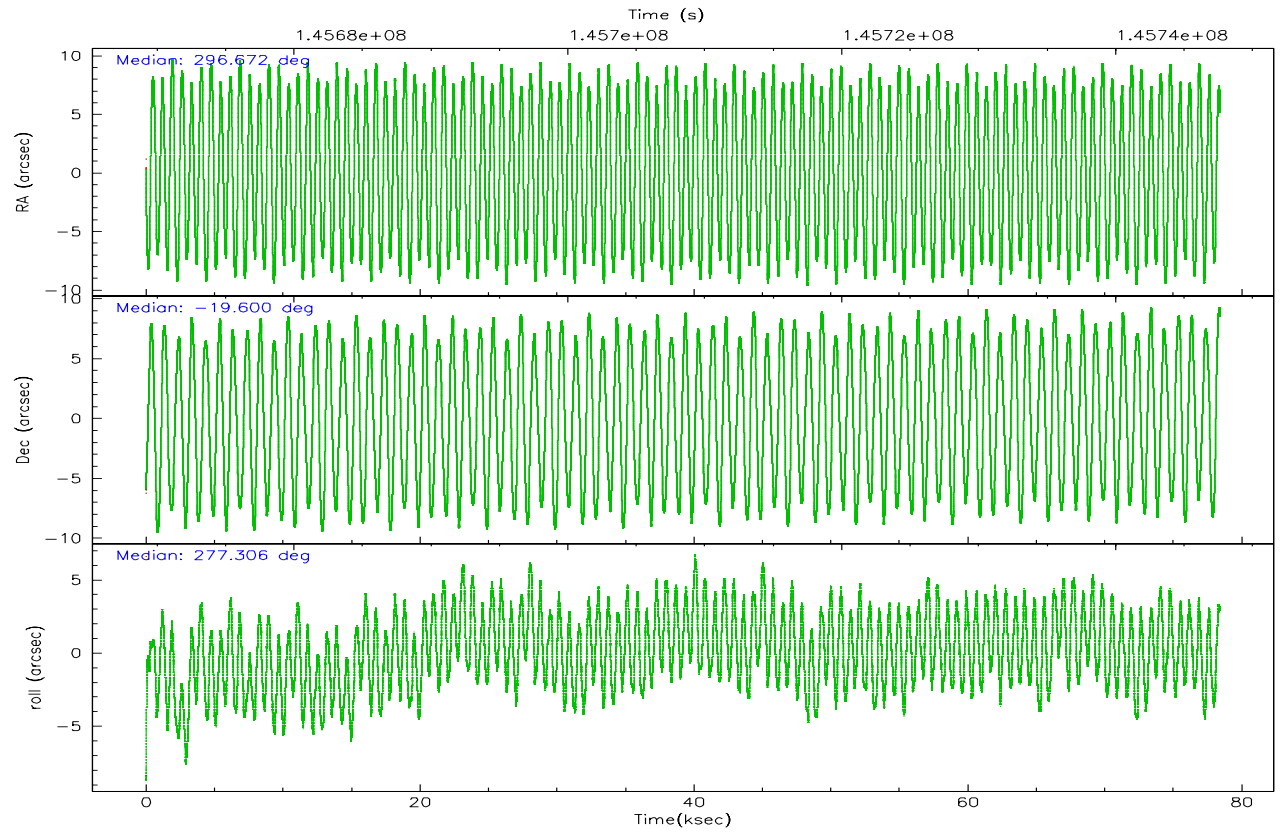
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	23864	56126	20468	12495	60213	28935
	5%	9%	4%	2%	9%	6%
grade 1 events	297	655	152	300	444	225
	0%	0%	0%	0%	0%	0%
grade 2 events	13888	80292	11656	49500	39645	10288
	3%	13%	2%	9%	6%	2%
grade 3 events	5287	7135	4871	12224	33800	4987
	1%	1%	1%	2%	5%	1%
grade 4 events	4991	6753	4728	11977	30346	4905
	1%	1%	1%	2%	4%	1%
grade 5 events	15456	28686	16389	35369	23148	17284
	3%	4%	3%	6%	3%	4%
grade 6 events	8429	137746	9456	114715	61240	9569
	1%	22%	2%	22%	9%	2%
grade 7 events	379974	281974	353708	268983	407449	339667
	84%	47%	83%	53%	62%	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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	296.654798	296.6726177453078	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	-19.578727	-19.60017344494279	Subarray start row	1	1
Pointing Roll	277.145330	277.3079268637535	Subarray row count	774	774
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	2.5
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	145669666.184000	145668570.12764			
Observation start date	2002-08-13T23:46:42	2002-08-13T23:29:30			
Observation end time	145747627.184000	145747941.51841			
Observation end date	2002-08-14T21:26:03	2002-08-14T21:32:21			
Read mode	TIMED	TIMED			

2.3 Aspect



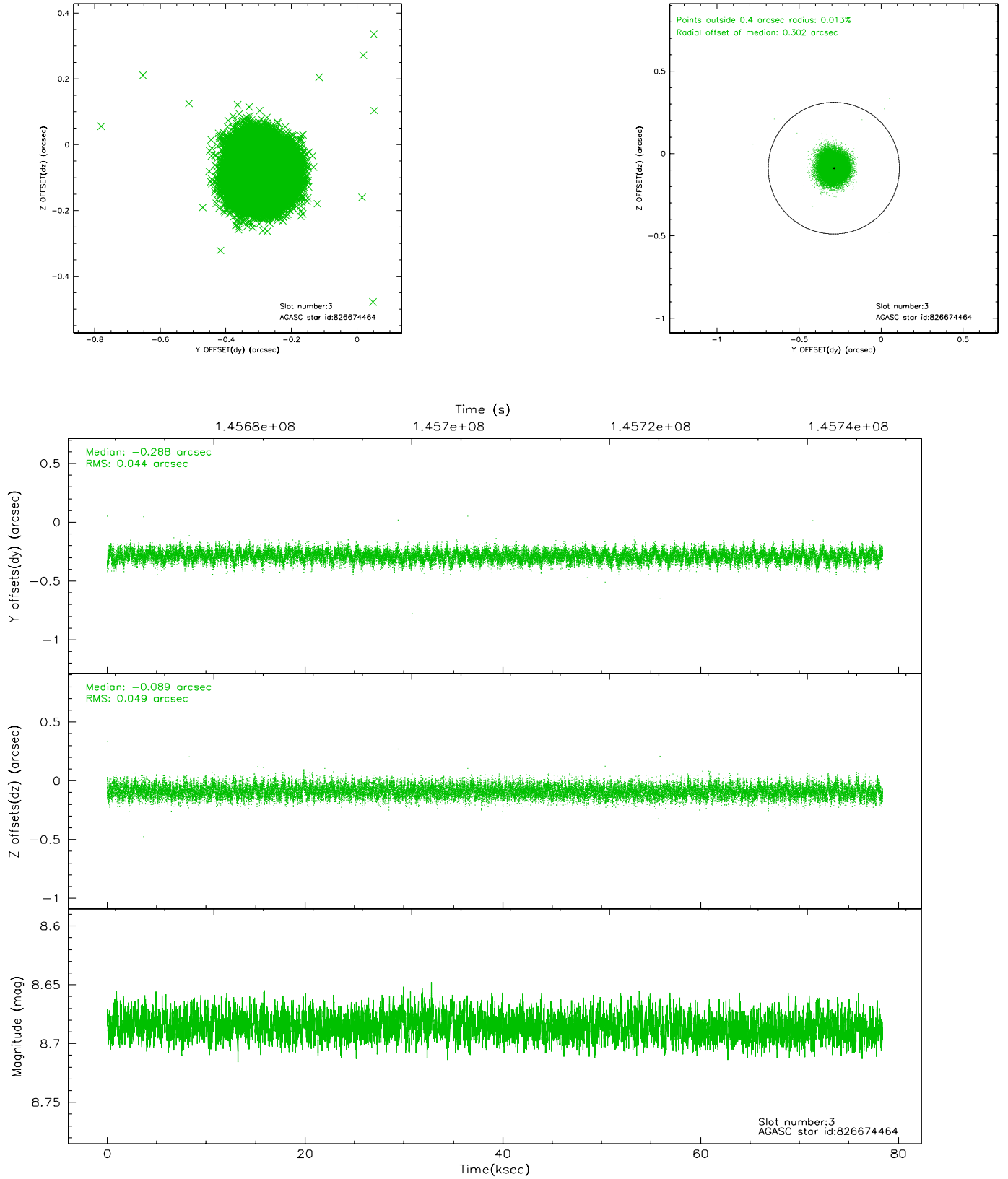


Slot Statistics

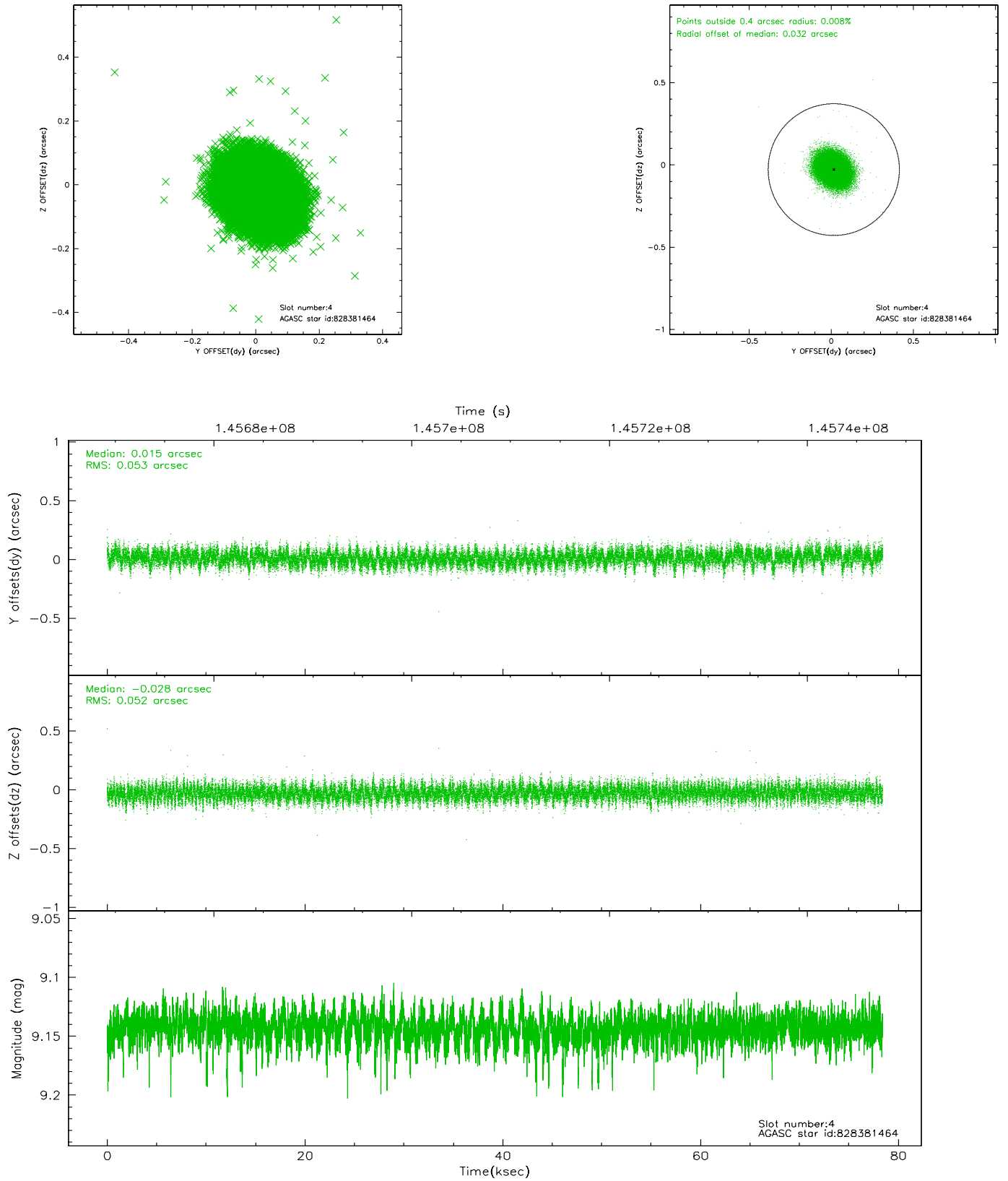
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	19131	-0.028	-0.029	0.012	0.036	0.000000	0.000000	-755.16	-1790.16
1	FID	ACIS-S-4	7.20	19127	-0.041	0.021	0.009	0.016	0.000000	0.000000	2158.12	118.45
2	FID	ACIS-S-5	7.24	19127	0.041	0.017	0.011	0.034	0.000000	0.000000	-1808.03	112.01
3	GUIDE	826674464	8.69	38252	-0.288	-0.089	0.070	0.111	295.888168	-19.028655	-2282.64	-2342.92
4	GUIDE	828381464	9.14	38245	0.015	-0.028	0.078	0.127	296.842614	-19.875406	1140.47	498.55
5	GUIDE	828391824	9.04	38240	0.067	-0.003	0.091	0.149	296.060008	-20.240197	2118.00	-2289.54
6	GUIDE	828386328	9.70	38217	0.170	0.170	0.107	0.174	296.611215	-20.167614	2086.81	-408.95
7	GUIDE	828385704	9.62	38141	0.038	-0.047	0.089	0.146	296.818502	-19.790676	827.75	455.81

2.4 Star Slots

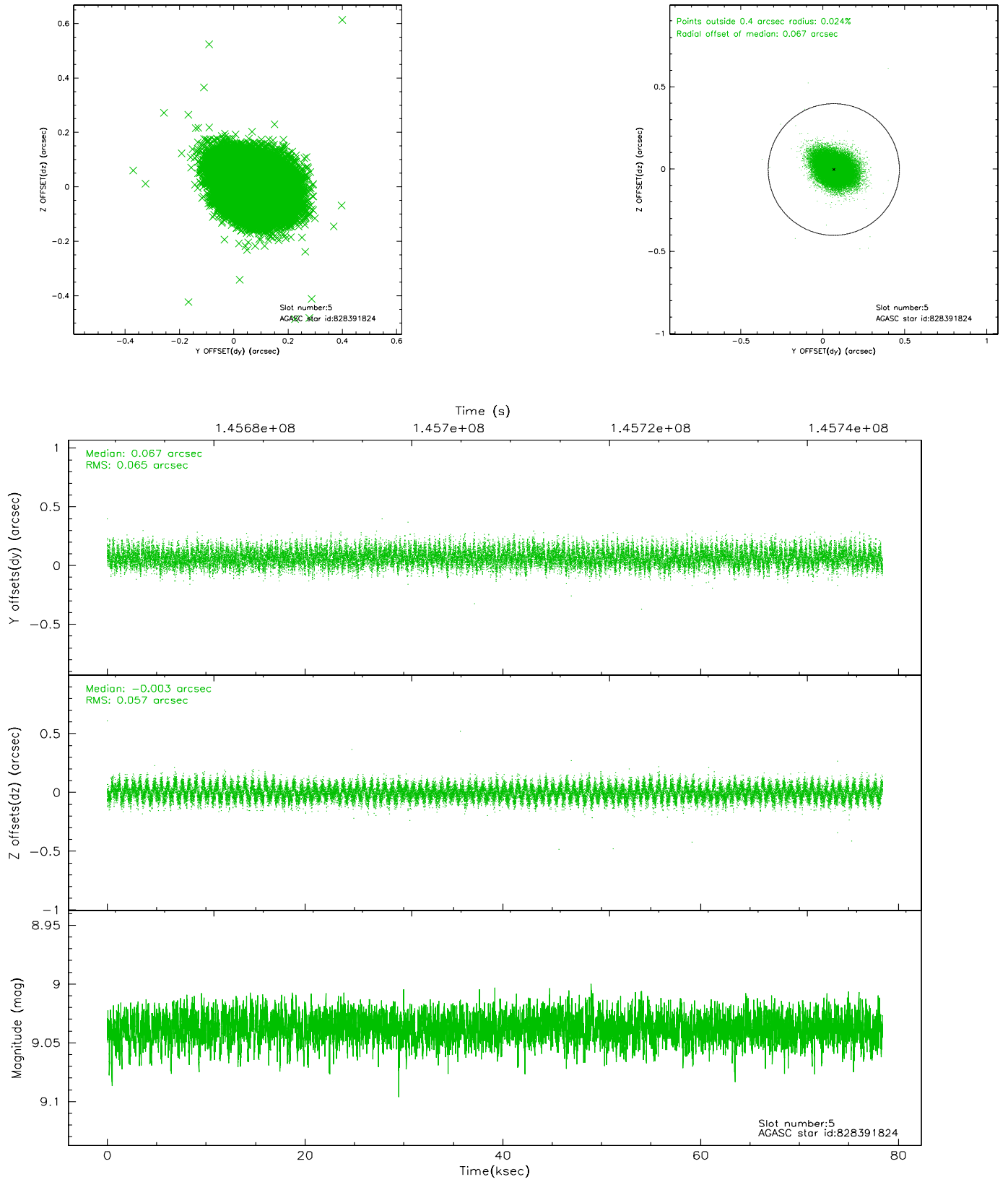
2.4.1 Slot 3



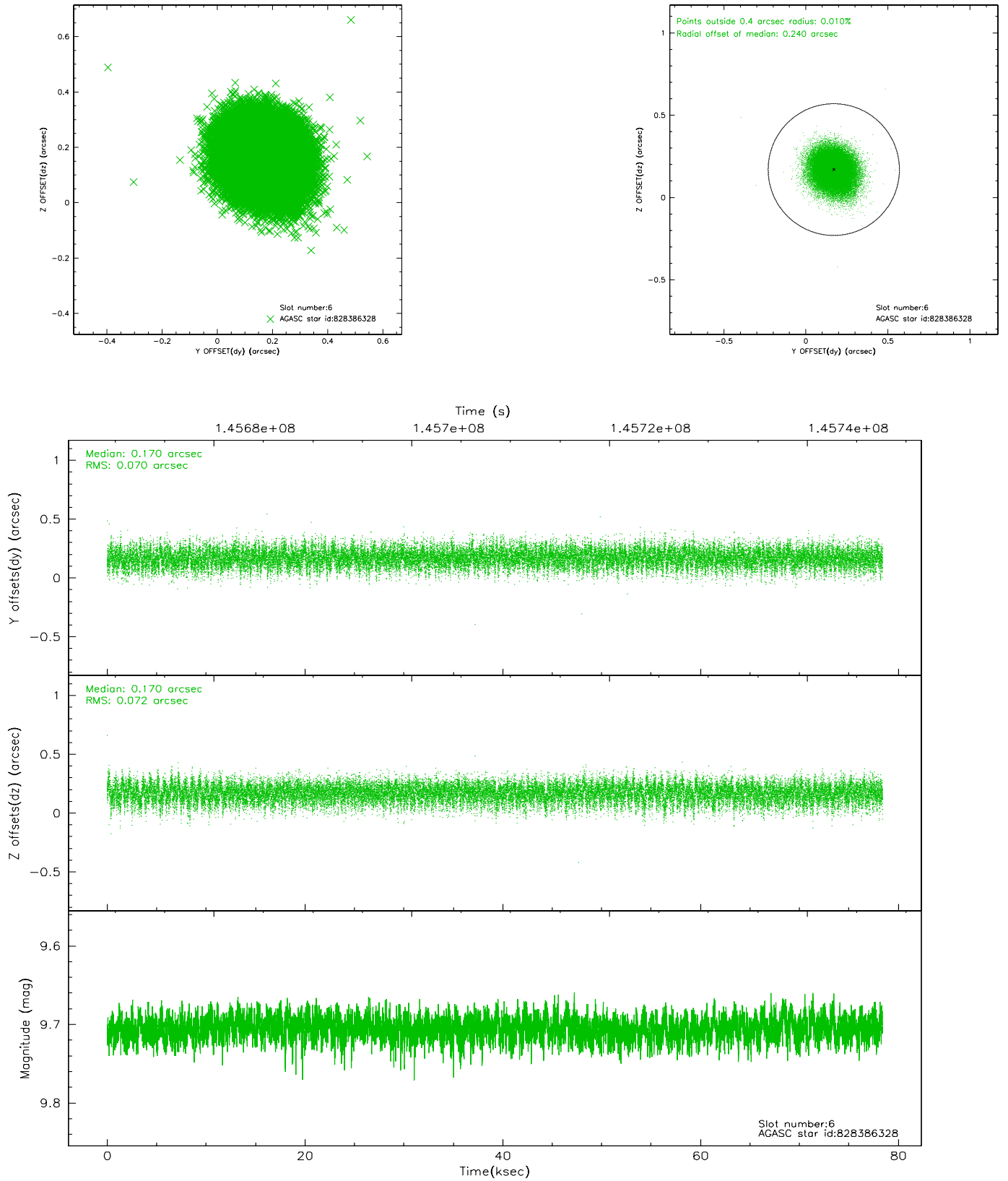
2.4.2 Slot 4



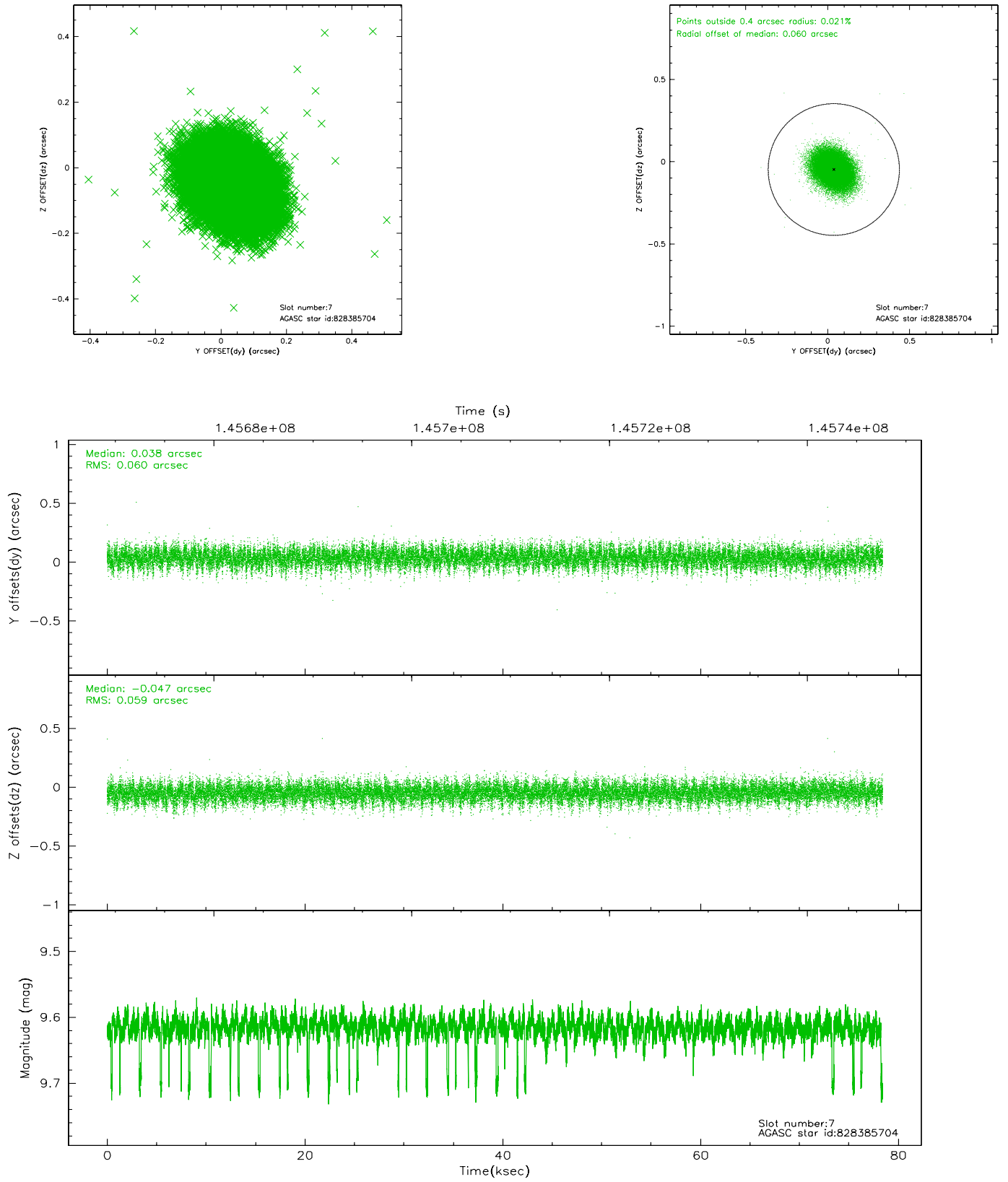
2.4.3 Slot 5



2.4.4 Slot 6

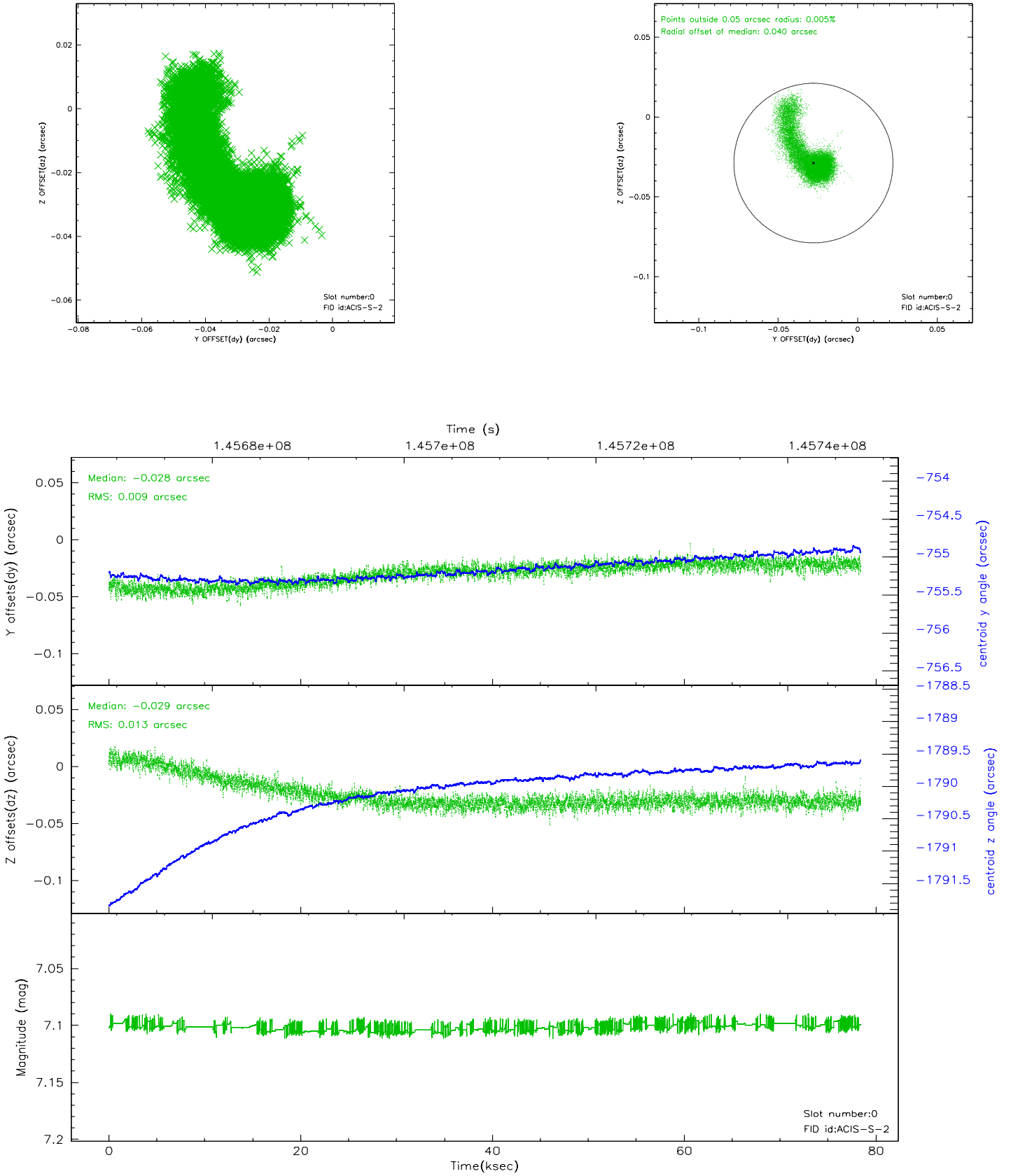


2.4.5 Slot 7

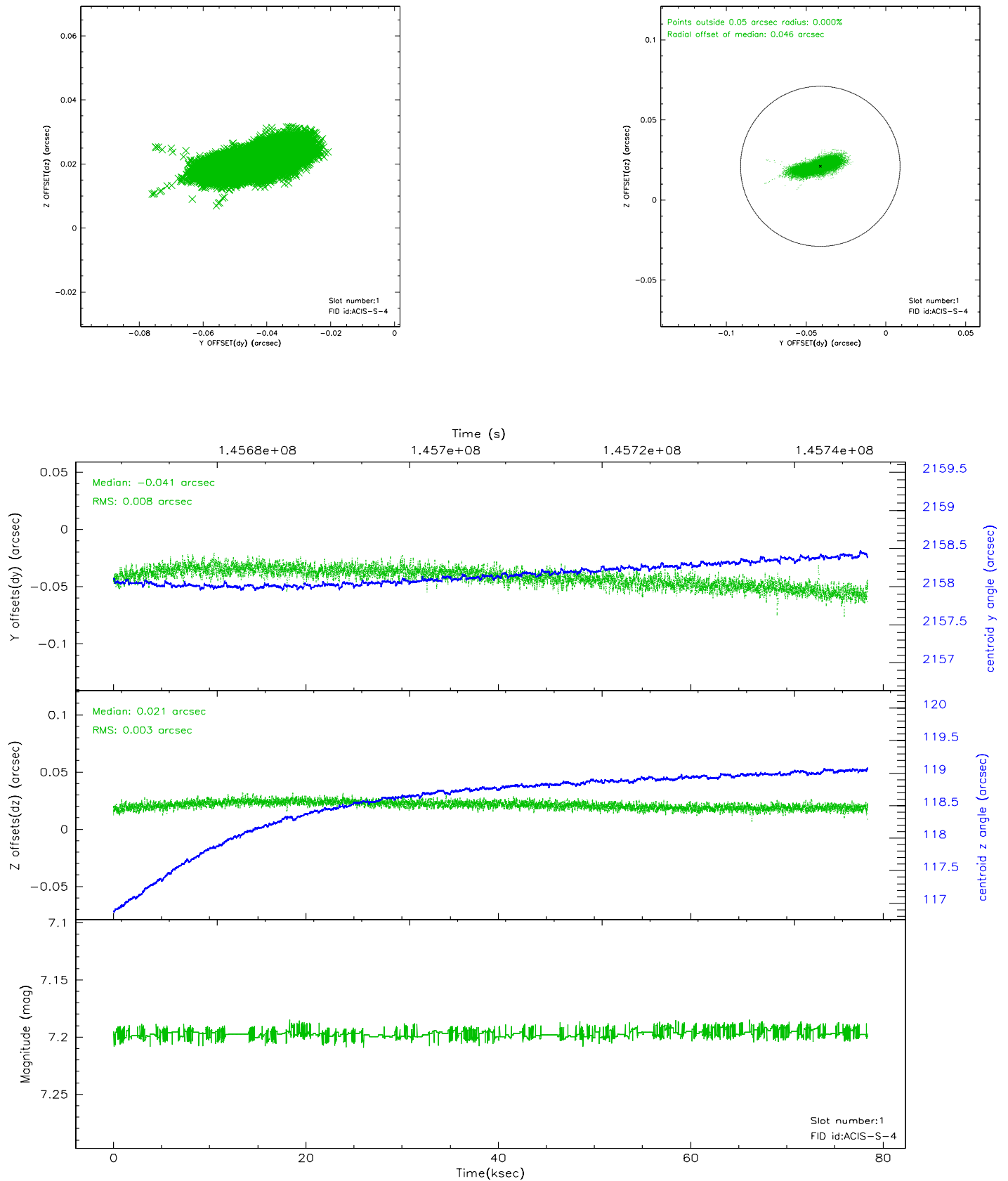


2.5 FID Slots

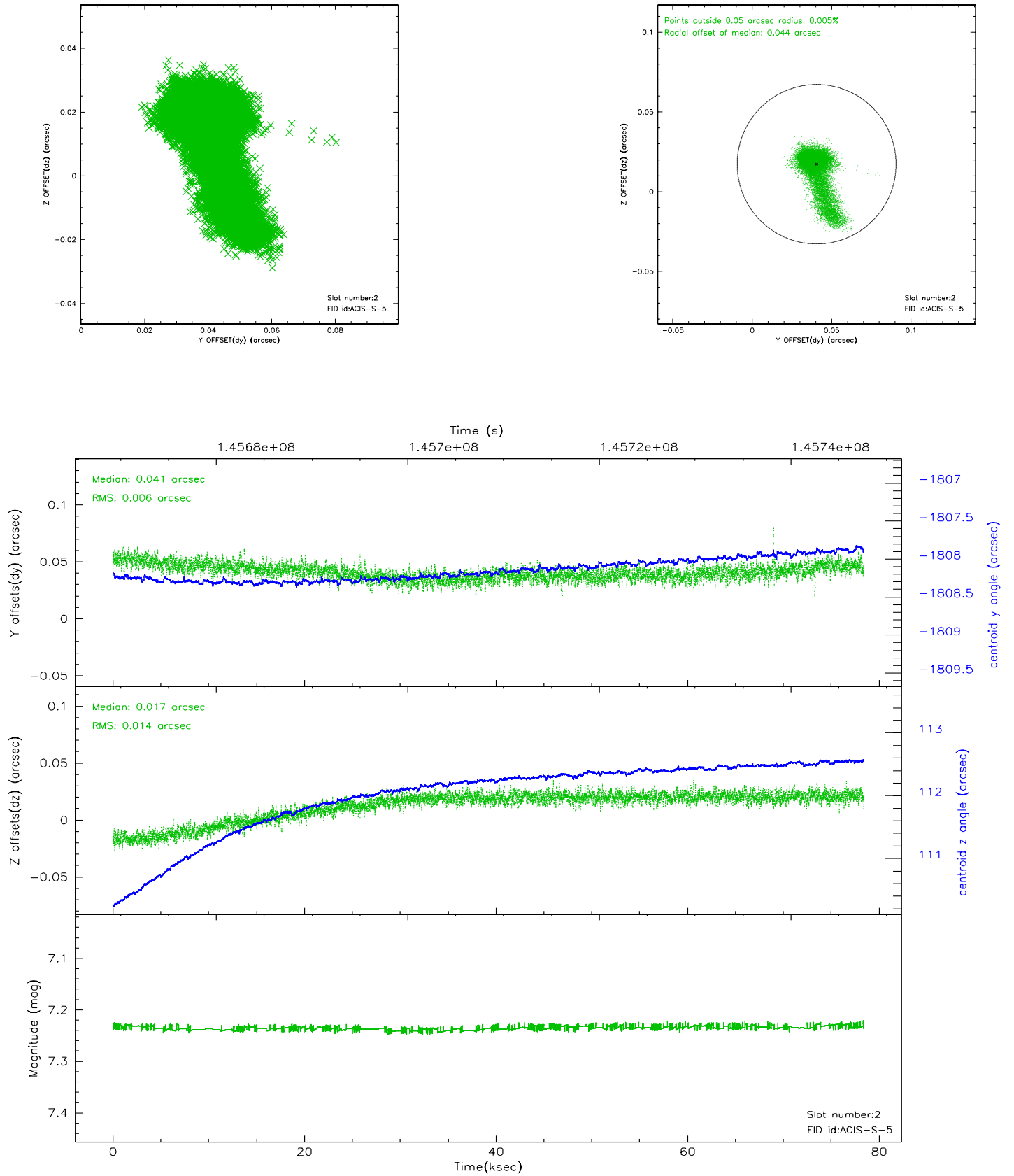
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

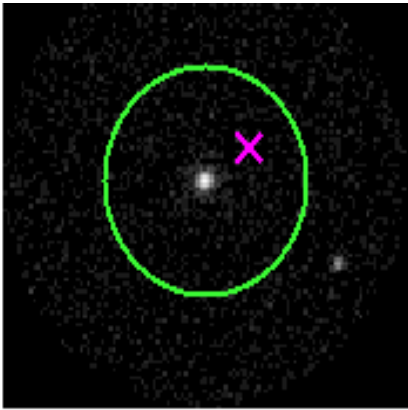


3 Gratings

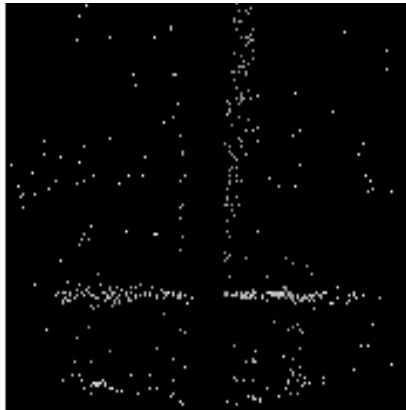
3.1 HEG Arm



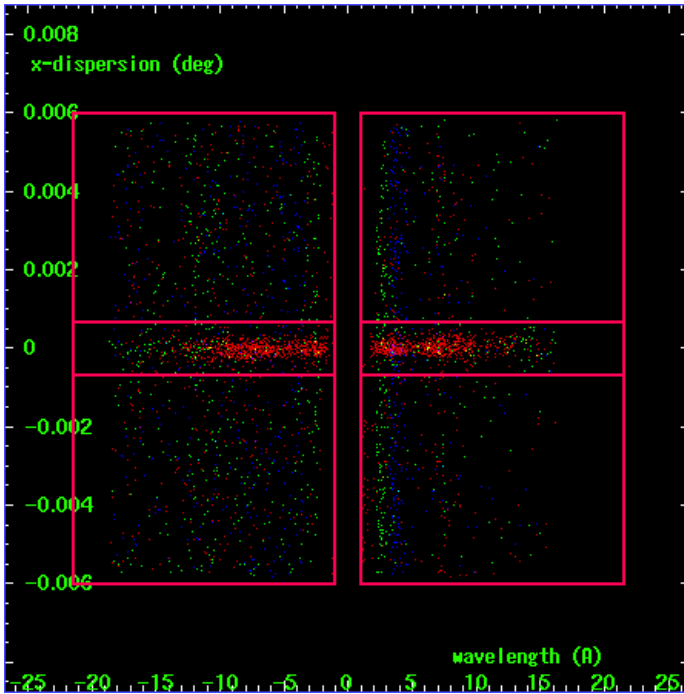
HEG Order Sort 123



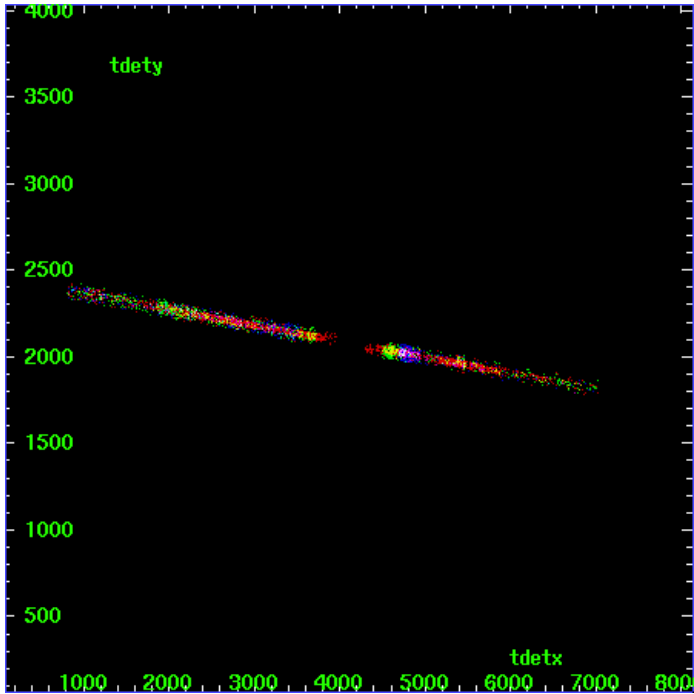
HEG Zero Order



HEG Order Sort ALL

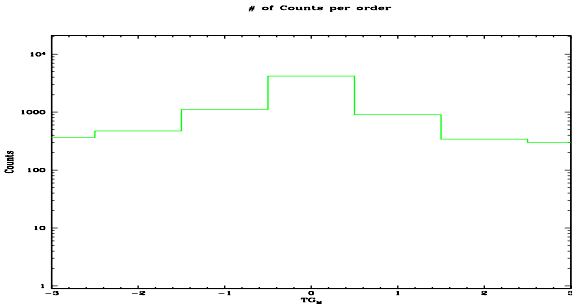


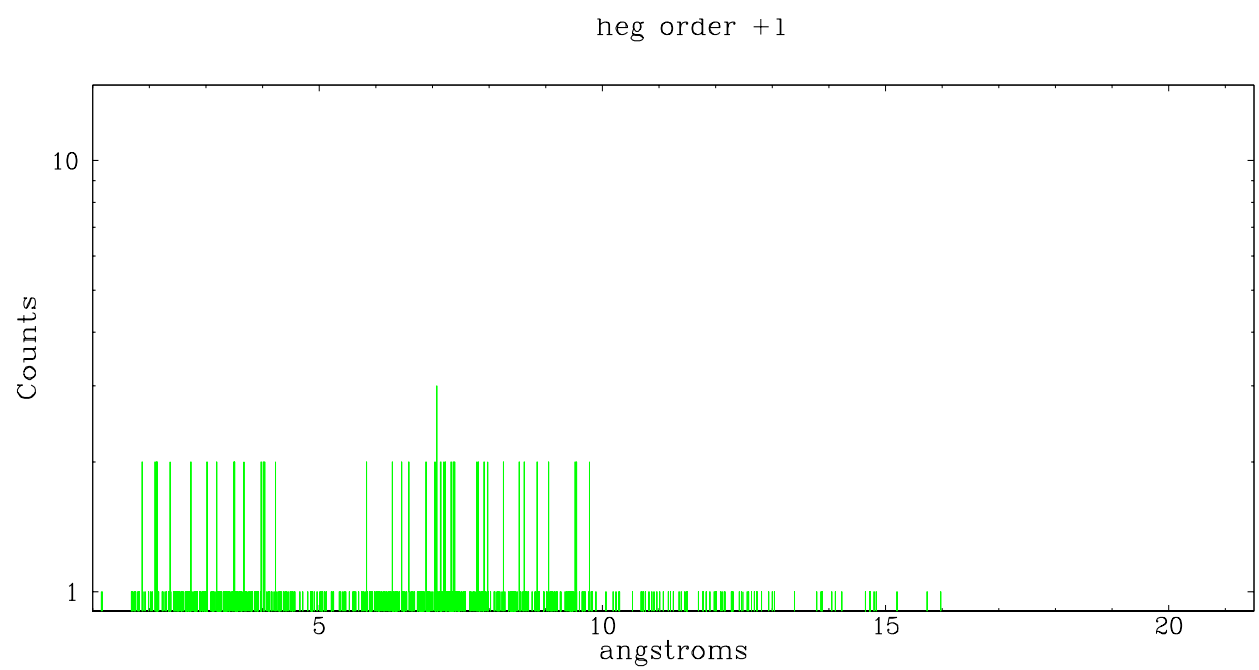
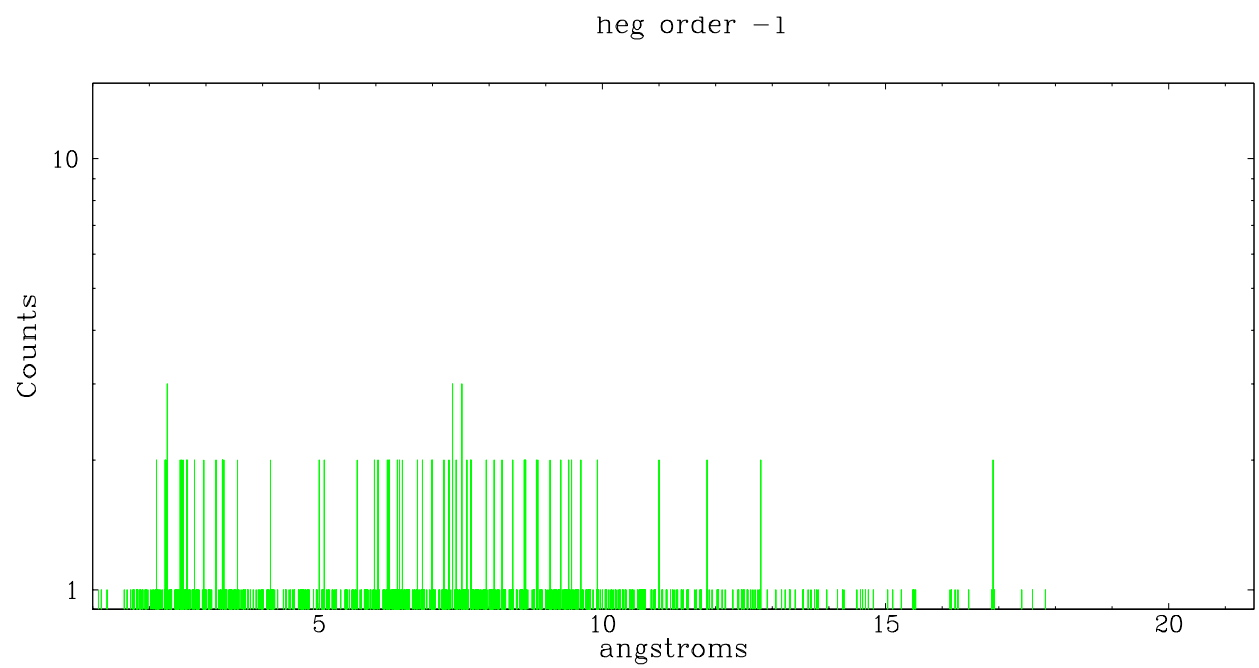
Spot Image HEG



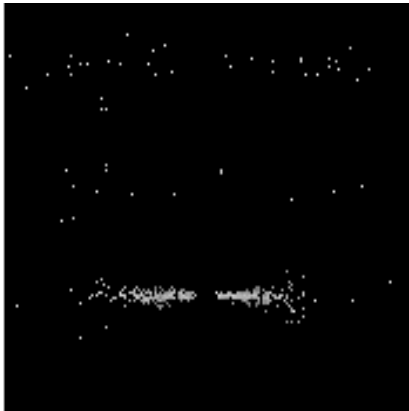
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	365	472	1114	4181	904	343	300

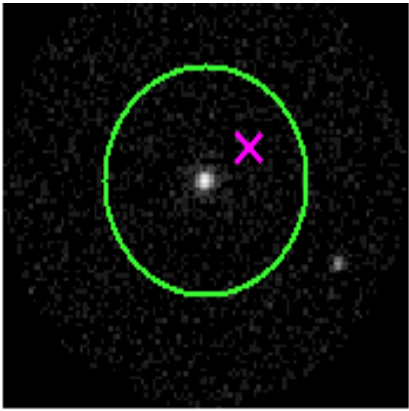




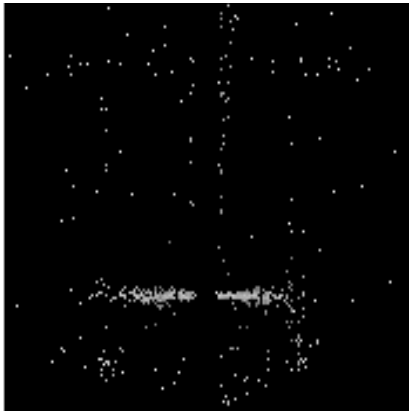
3.2 MEG Arm



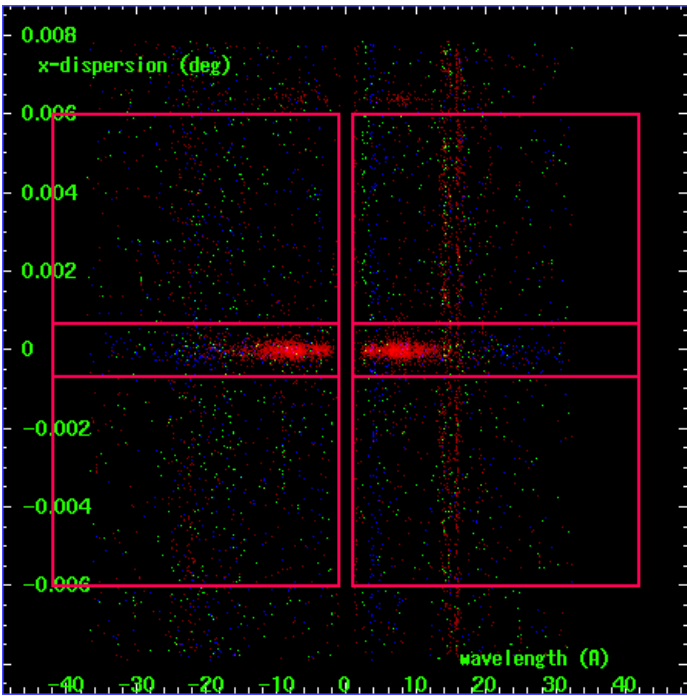
MEG Order Sort 123



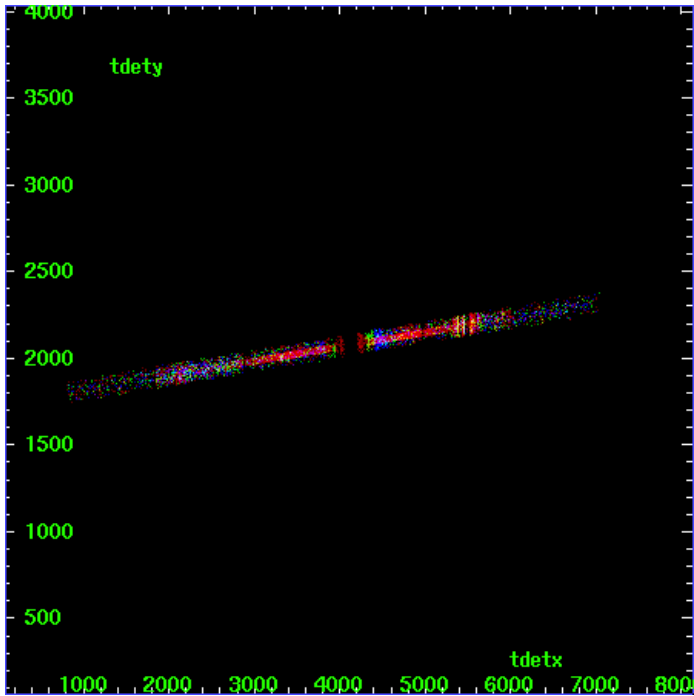
MEG Zero Order



MEG Order Sort ALL

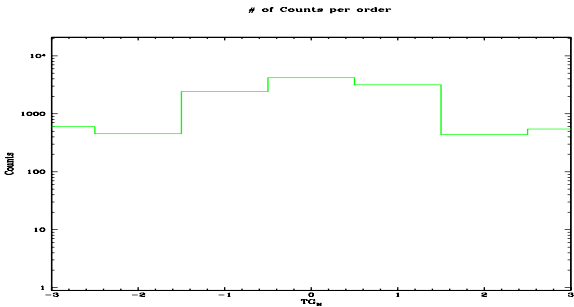


Spot Image MEG

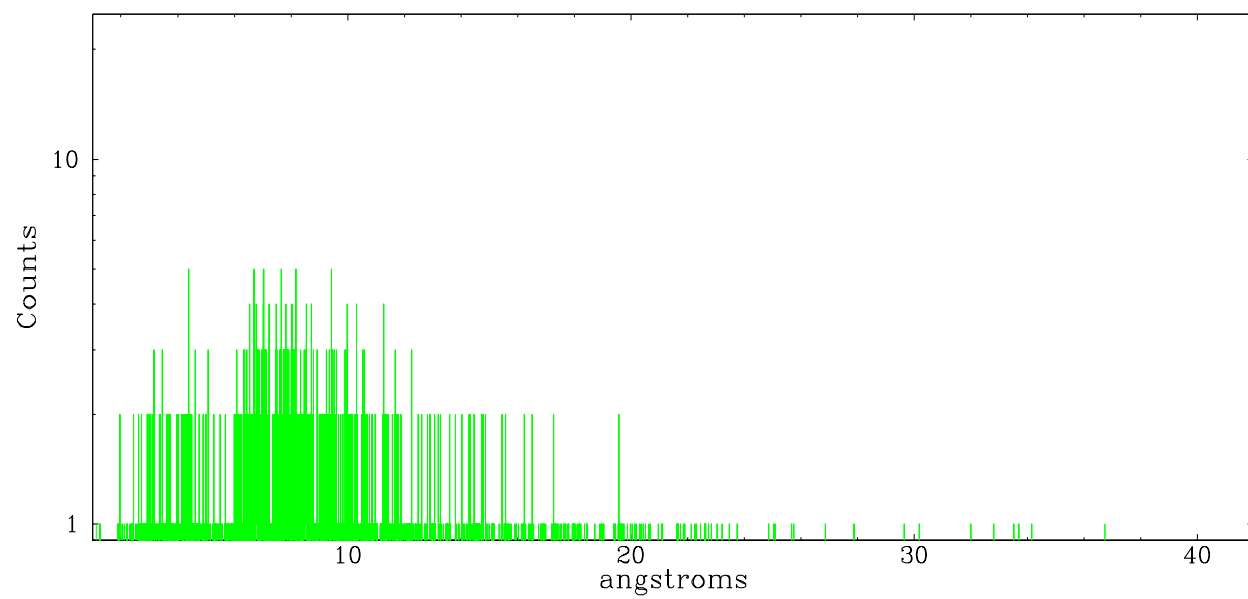


Full Detector MEG

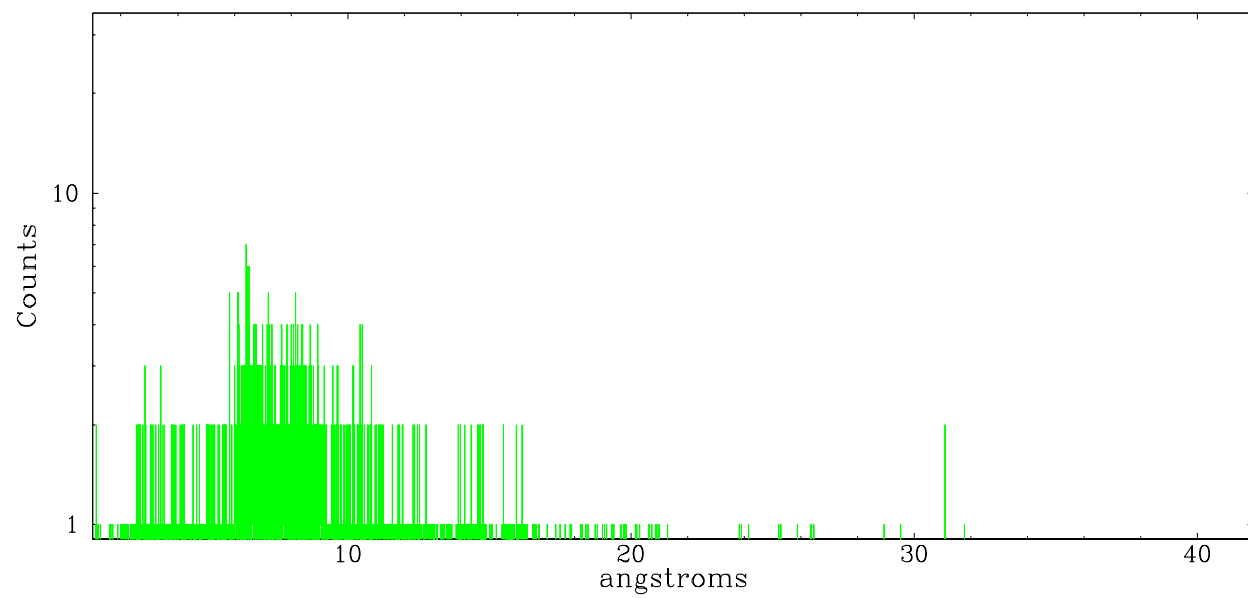
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	599	453	2428	4181	3154	438	544



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	78.122

A.2 Comments