

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3491 - L2 Version 001
Chandra X-Ray Center

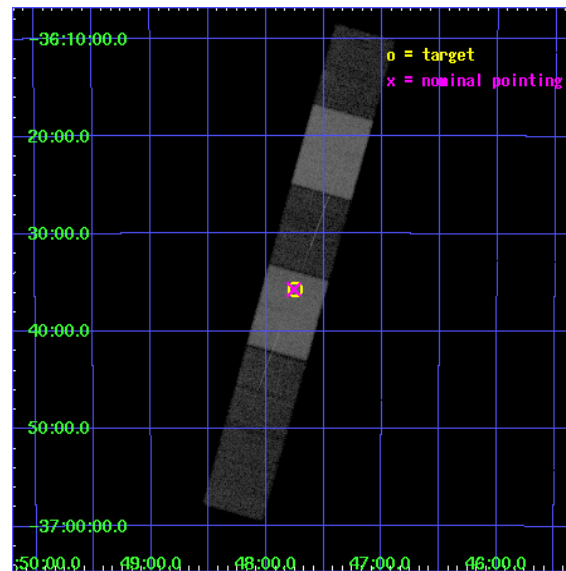
L2 Processing Date : Sep 14 2006

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

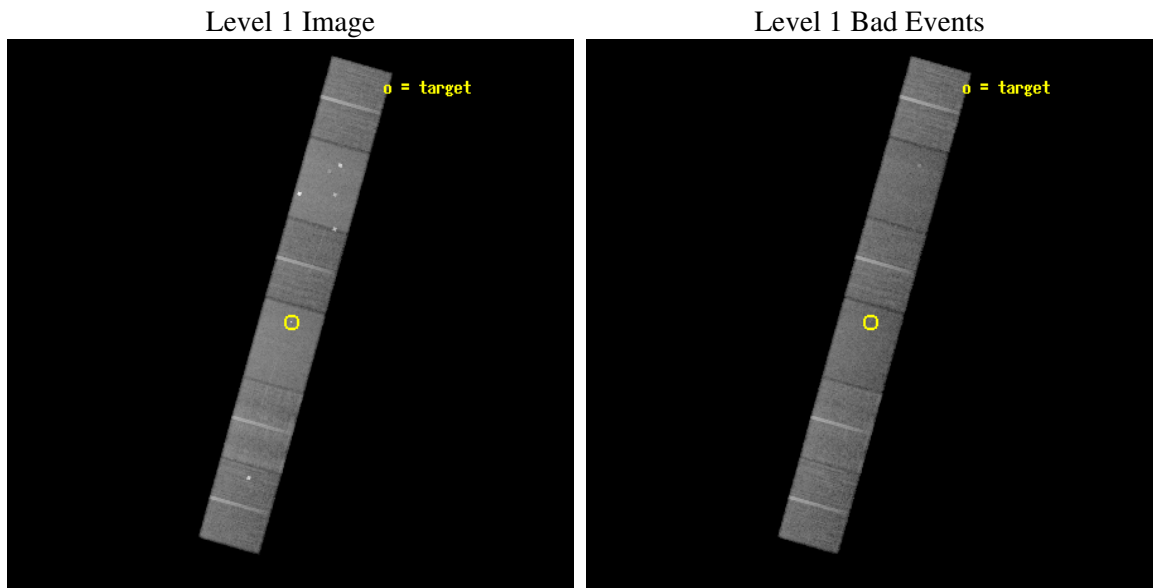
seq_num	200144
obs_id	3491
title	HIGH-RESOLUTION SPECTRA OF T TAURI STARS
observer	Dr. Stephen Murray
object	SPEEDY MIC
dtcycle	0
cycle	P
ra_targ	311.9375
dec_targ	-36.594667
ra_nom	311.94000773085
dec_nom	-36.595601229695
roll_nom	105.65811610237
revision	2
ontime	35164.959039748
livetime	34597.014450528
ontime4	35167.5
ontime5	35164.959039748
ontime6	35167.5
ontime7	35164.959039748
ontime8	35167.5
ontime9	35167.5
l2events	258952



2 OBI

2.1 OBI

2.1.1 Images

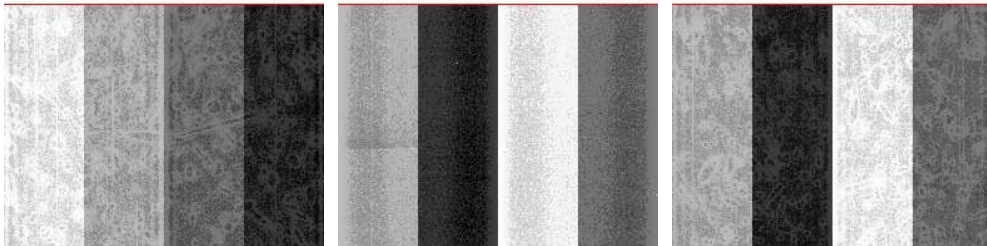


2.1.2 Bias

Chip 4

Chip 5

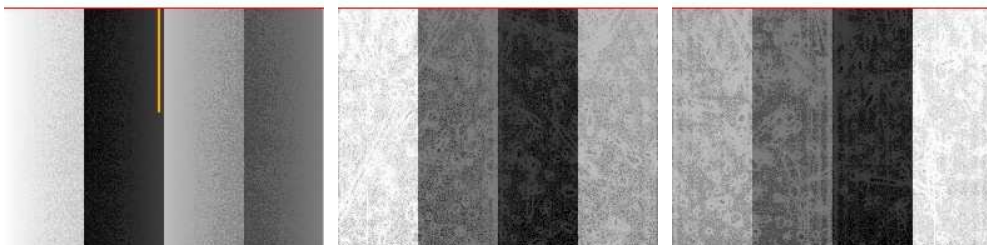
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-14T19:30:30
revision	2

sched_exp_time	35000.000000
ontime	35167.563783318
ontime4	35170.10474357
ontime5	35167.563783318
ontime6	35170.10474357
ontime7	35167.563783318
ontime8	35170.10474357
ontime9	35170.10474357
l1events	1214272

2.1.4 Events

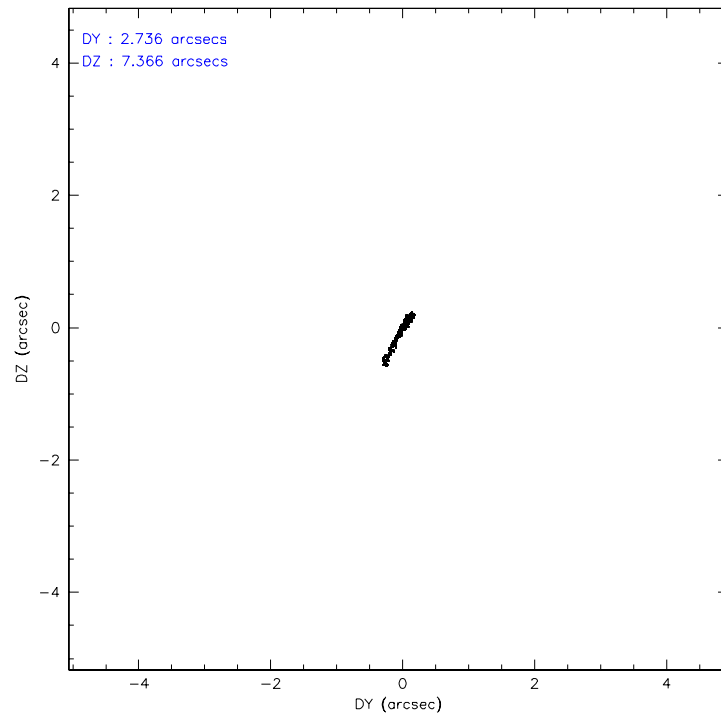
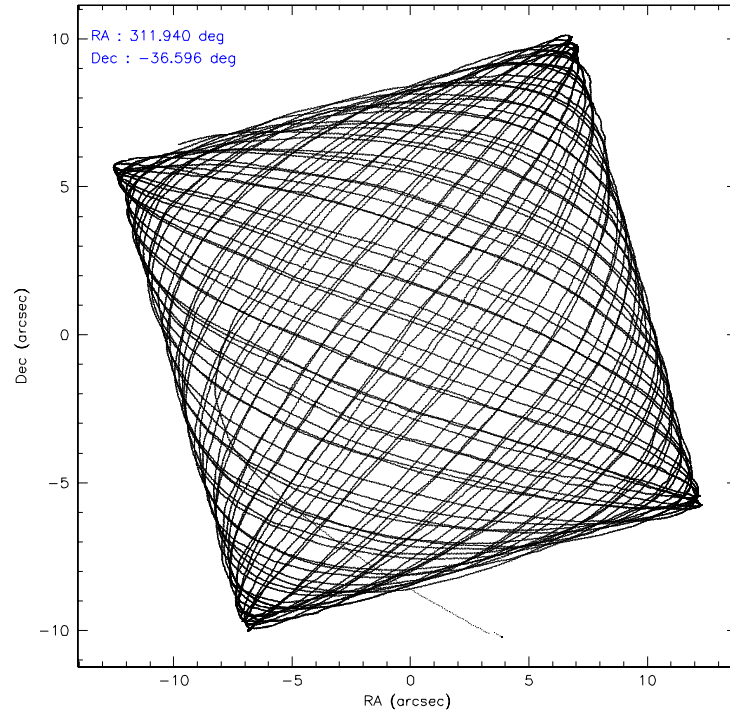
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	191829	251705	168108	216762	214373	171495
rejected events	169808	131074	146965	129426	166628	146402
rejected %	88%	52%	87%	59%	77%	85%

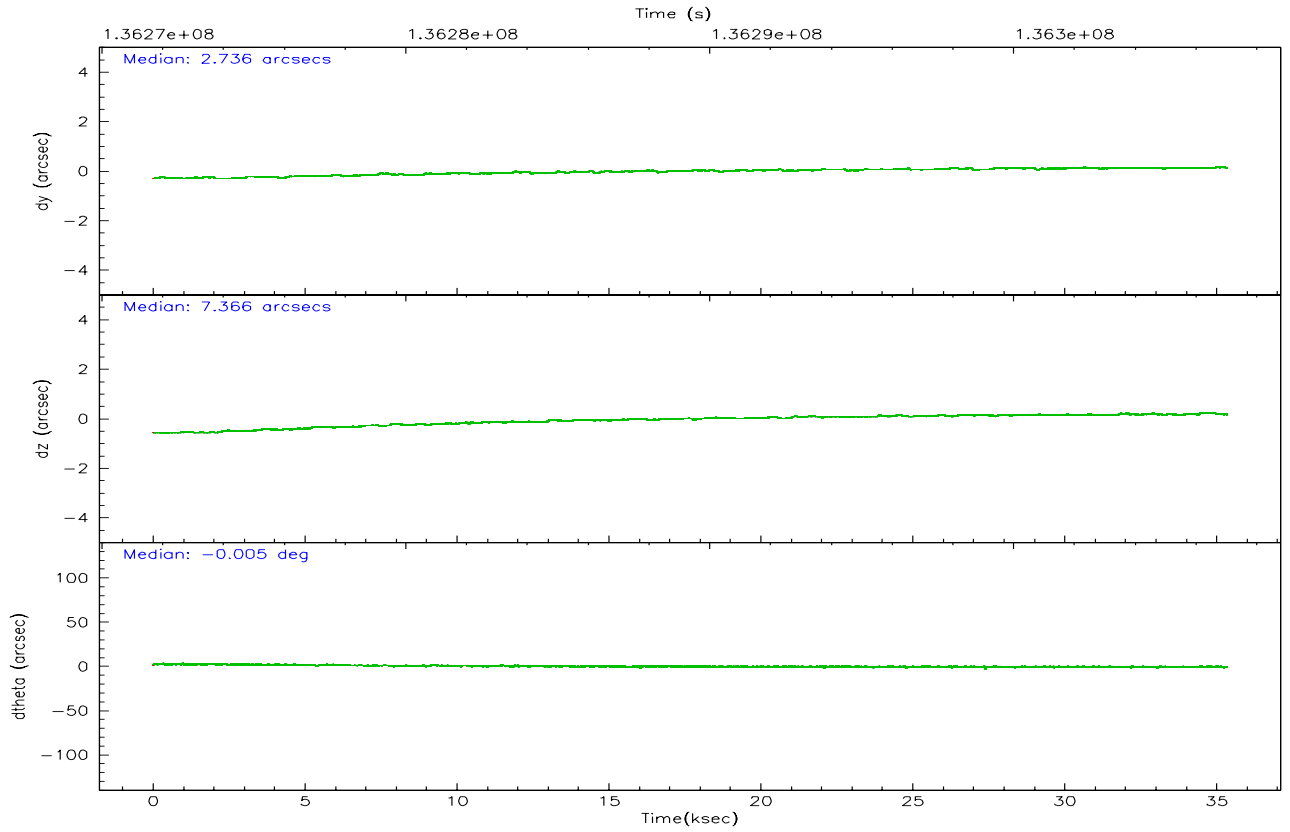
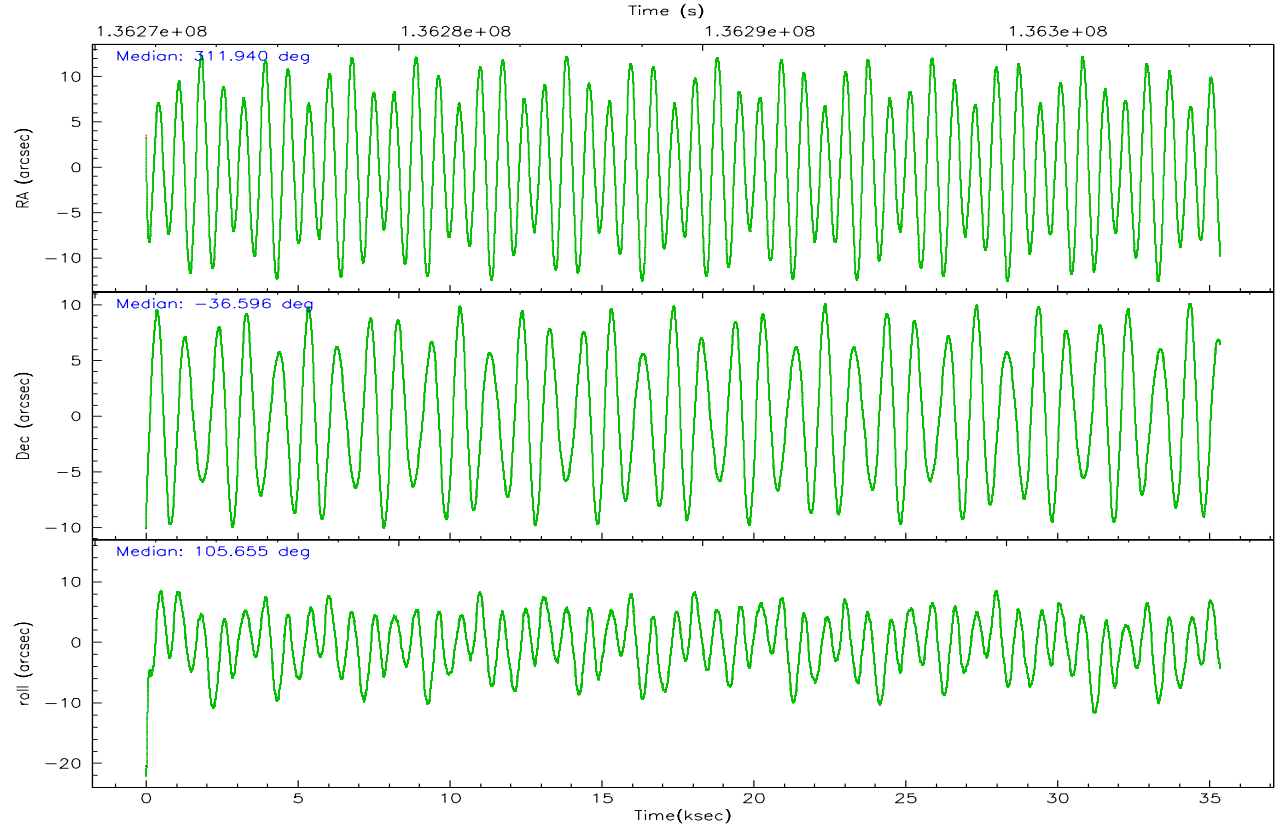
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8795	22824	8793	5775	15307	12454
	4%	9%	5%	2%	7%	7%
grade 1 events	78	687	81	128	101	73
	0%	0%	0%	0%	0%	0%
grade 2 events	5266	32709	4165	21232	9848	4345
	2%	12%	2%	9%	4%	2%
grade 3 events	2121	2959	2104	5605	5518	2188
	1%	1%	1%	2%	2%	1%
grade 4 events	2044	2865	2058	5287	4882	2074
	1%	1%	1%	2%	2%	1%
grade 5 events	6056	12266	7049	15847	9003	7351
	3%	4%	4%	7%	4%	4%
grade 6 events	3796	59281	4025	49448	12191	4036
	1%	23%	2%	22%	5%	2%
grade 7 events	163673	118114	139833	113440	157523	138974
	85%	46%	83%	52%	73%	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	311.964572	311.9400077308533	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	-36.614410	-36.59560122969539	Subarray start row	1	1
Pointing Roll	105.516141	105.6581161023732	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	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	136272025.184000	136270978.1928			
Observation start date	2002-04-27T05:19:21	2002-04-27T05:02:58			
Observation end time	136307025.184000	136307626.55679			
Observation end date	2002-04-27T15:02:41	2002-04-27T15:13:46			
Read mode	TIMED	TIMED			

2.3 Aspect



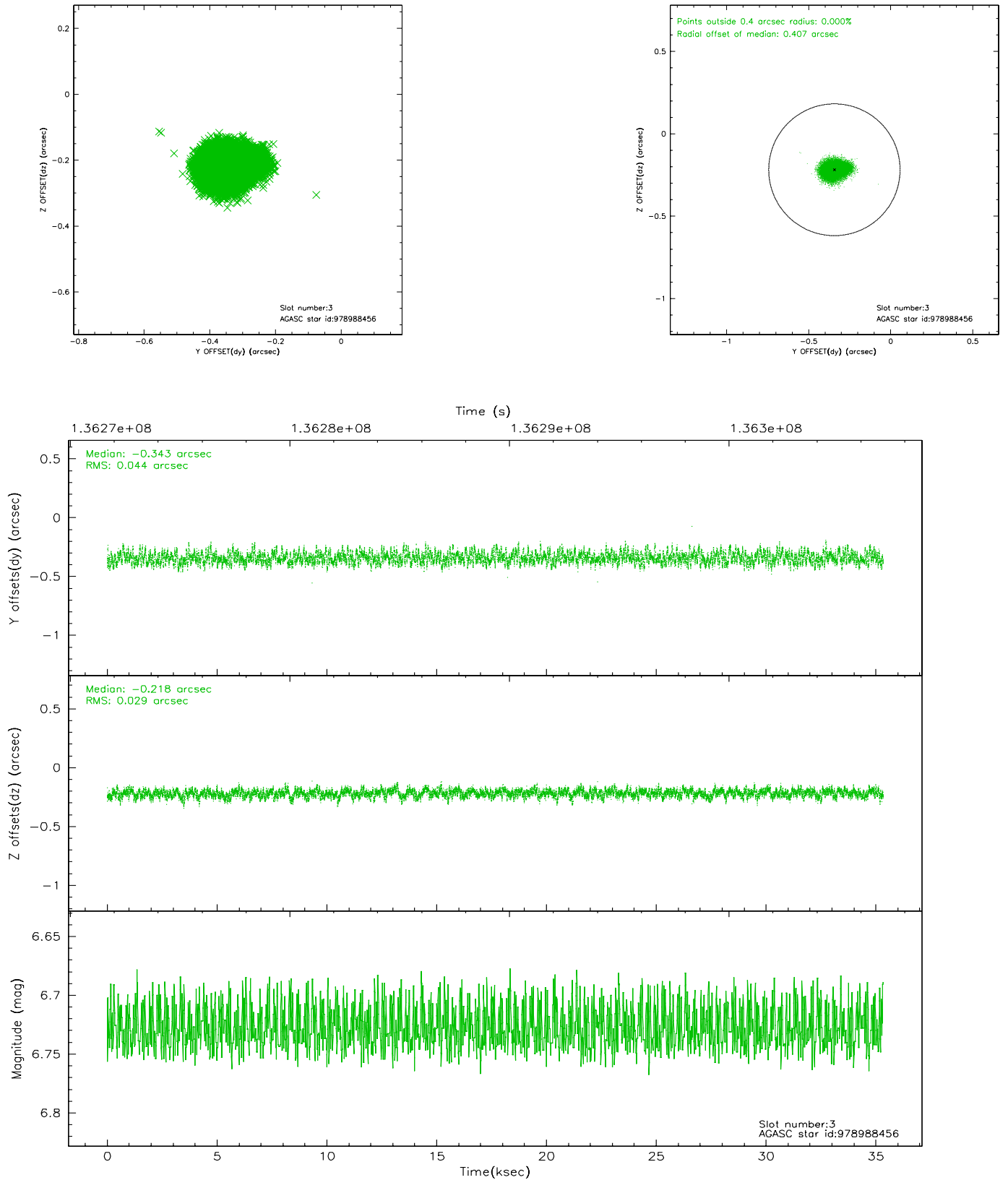


Slot Statistics

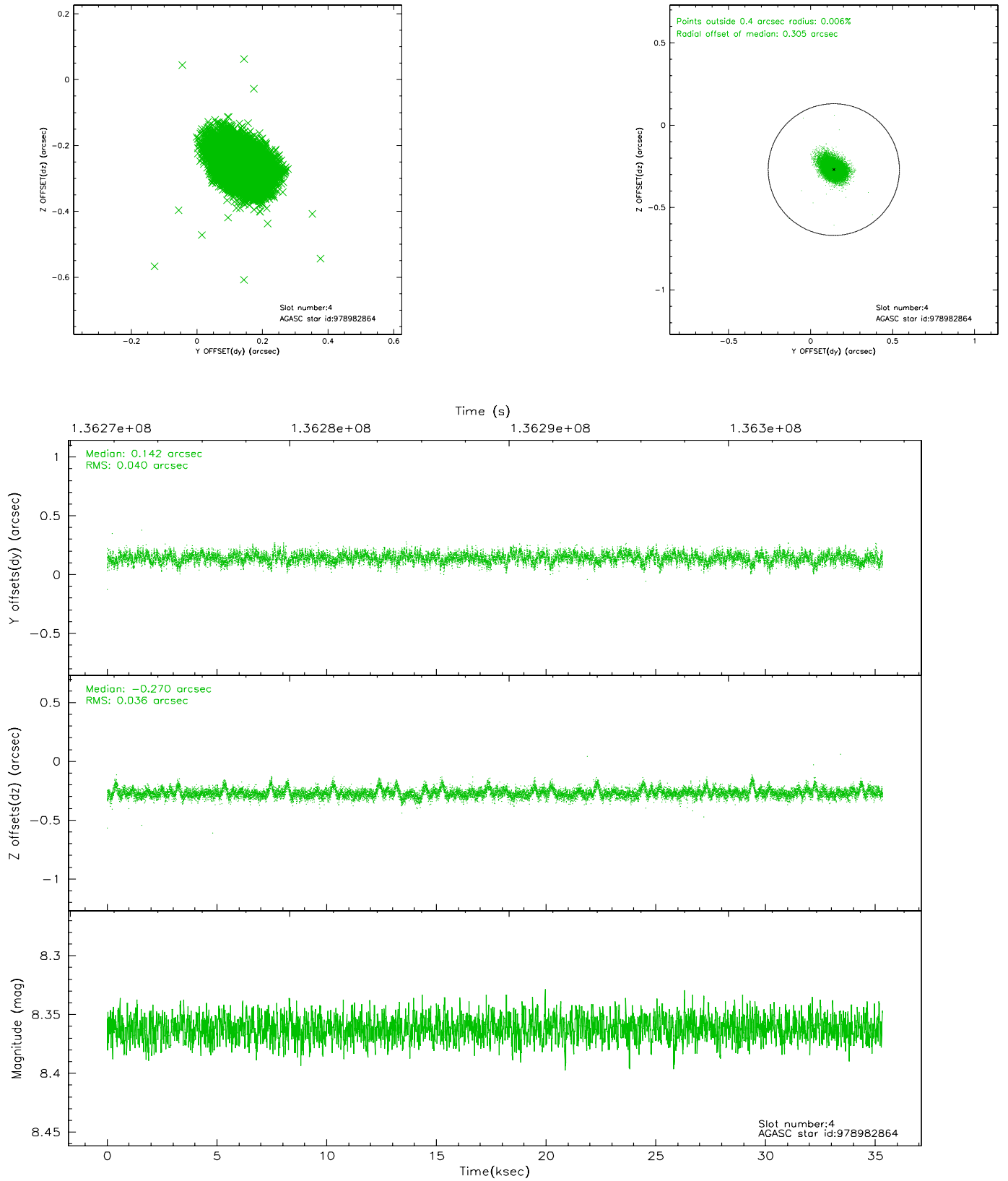
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	8622	-0.037	-0.012	0.010	0.016	0.000000	0.000000	-755.15	-1790.64
1	FID	ACIS-S-4	7.20	8622	-0.038	0.021	0.007	0.012	0.000000	0.000000	2158.08	117.87
2	FID	ACIS-S-5	7.23	8622	0.044	-0.001	0.009	0.015	0.000000	0.000000	-1807.89	111.51
3	GUIDE	978988456	6.73	17241	-0.343	-0.218	0.057	0.090	311.577530	-36.120150	2013.16	609.06
4	GUIDE	978982864	8.36	17242	0.142	-0.270	0.056	0.097	311.499492	-37.036400	-1109.02	1694.83
5	GUIDE	979119192	9.71	17231	0.198	0.314	0.135	0.226	312.824643	-36.828650	-1416.46	-2178.36
6	GUIDE	979116520	9.31	17236	0.267	0.249	0.075	0.121	312.776878	-37.062628	-2188.10	-1814.25
7	GUIDE	978984352	9.69	17215	-0.260	-0.075	0.123	0.197	311.180988	-36.095435	2400.85	1699.07

2.4 Star Slots

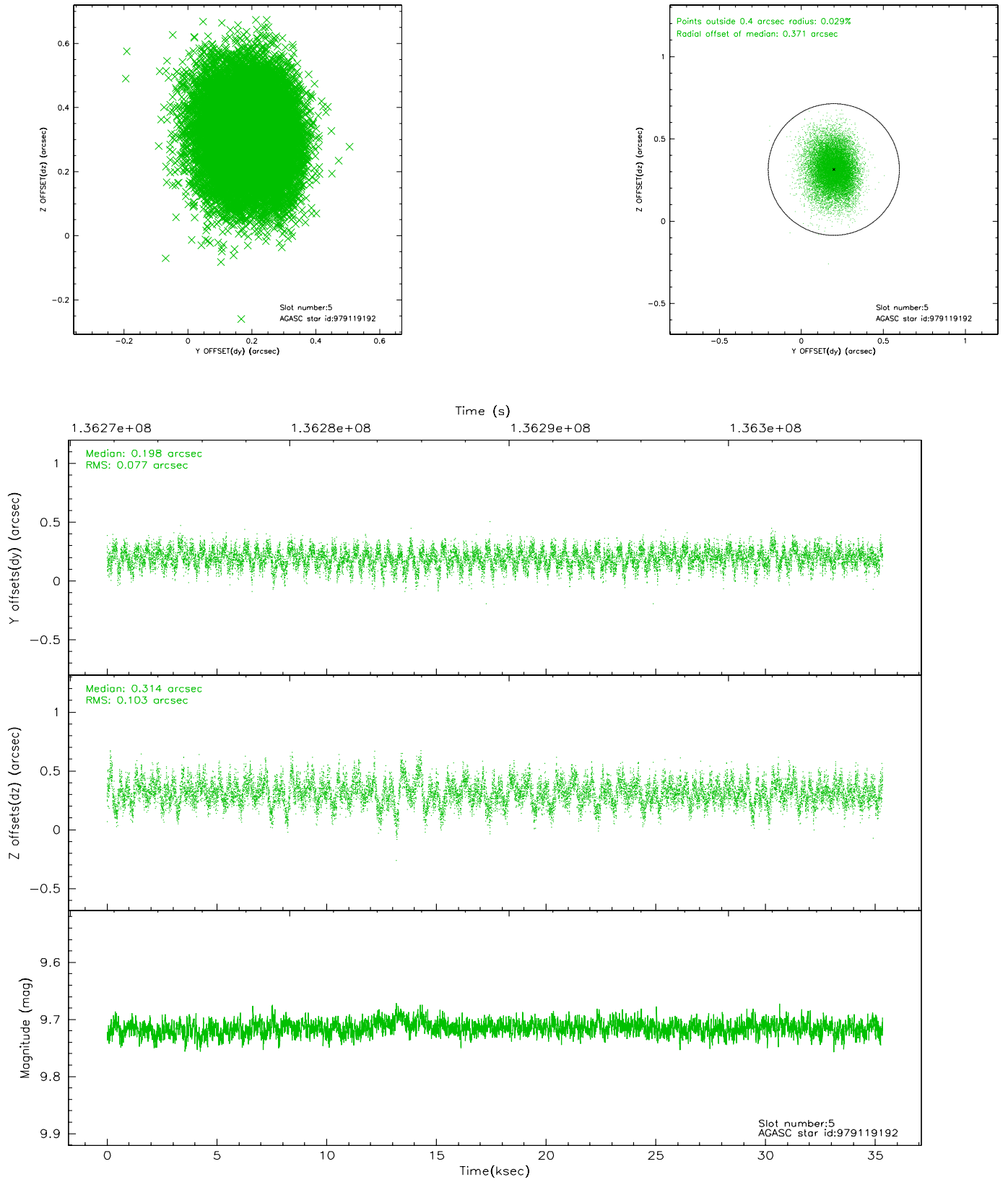
2.4.1 Slot 3



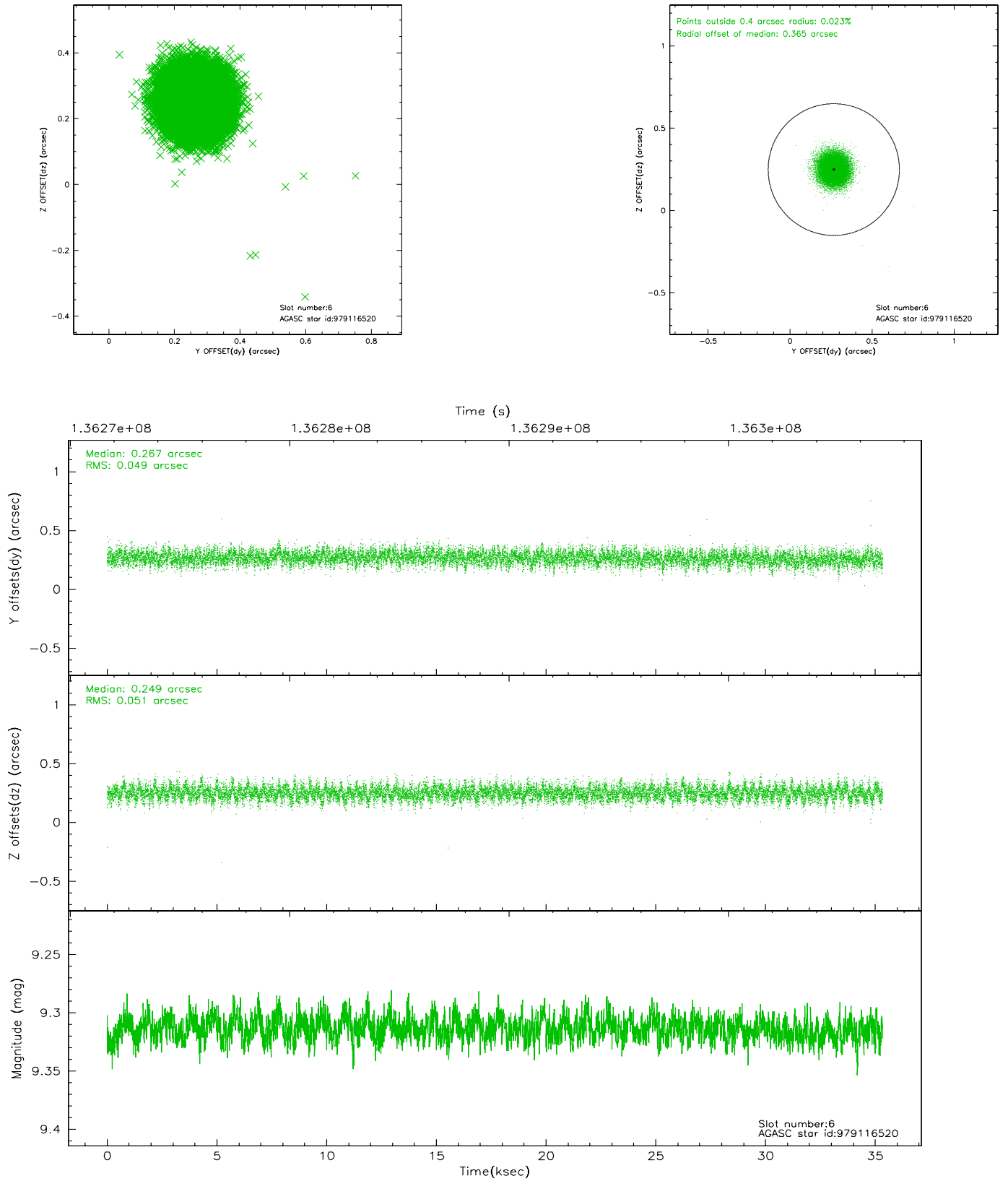
2.4.2 Slot 4



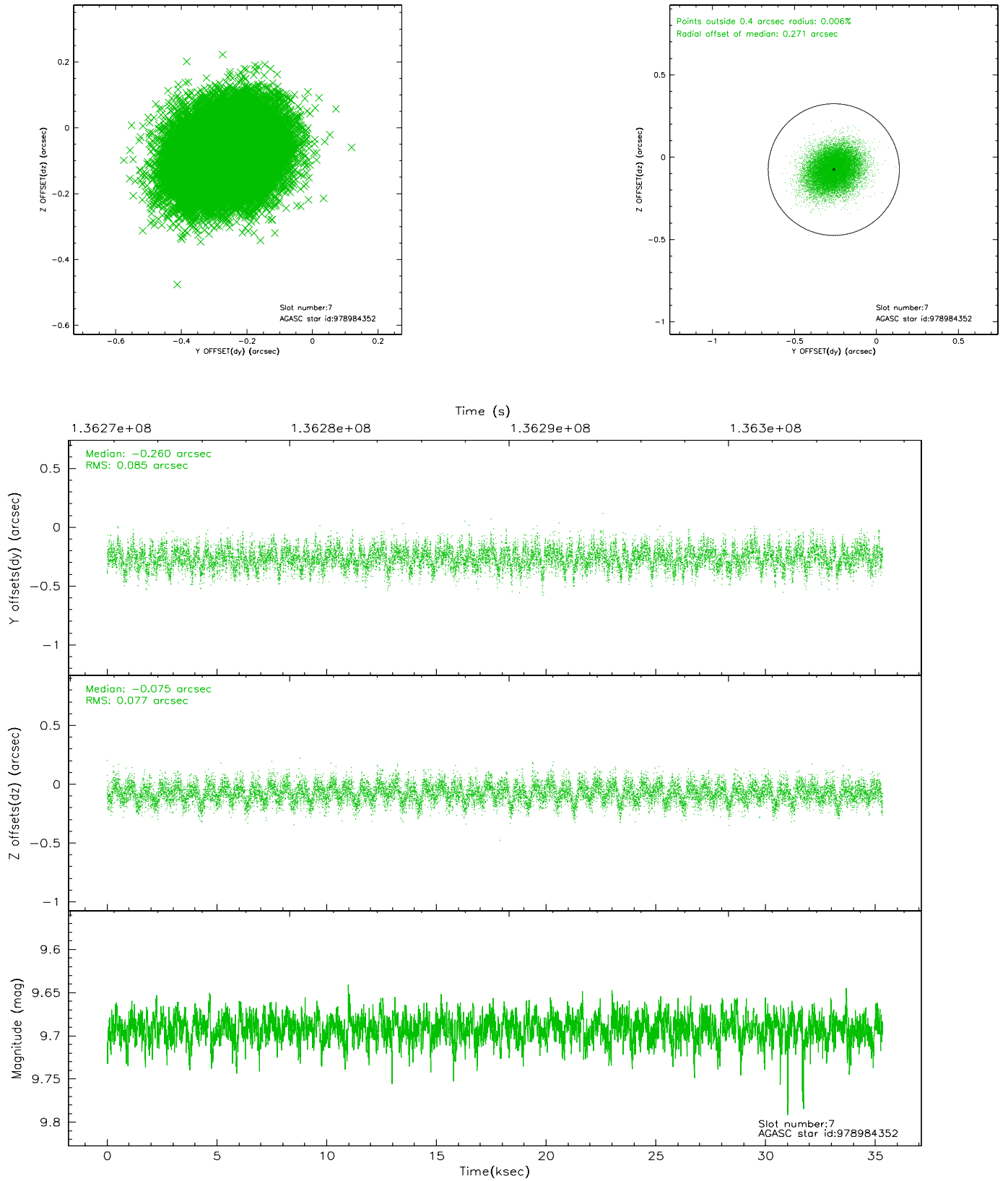
2.4.3 Slot 5



2.4.4 Slot 6

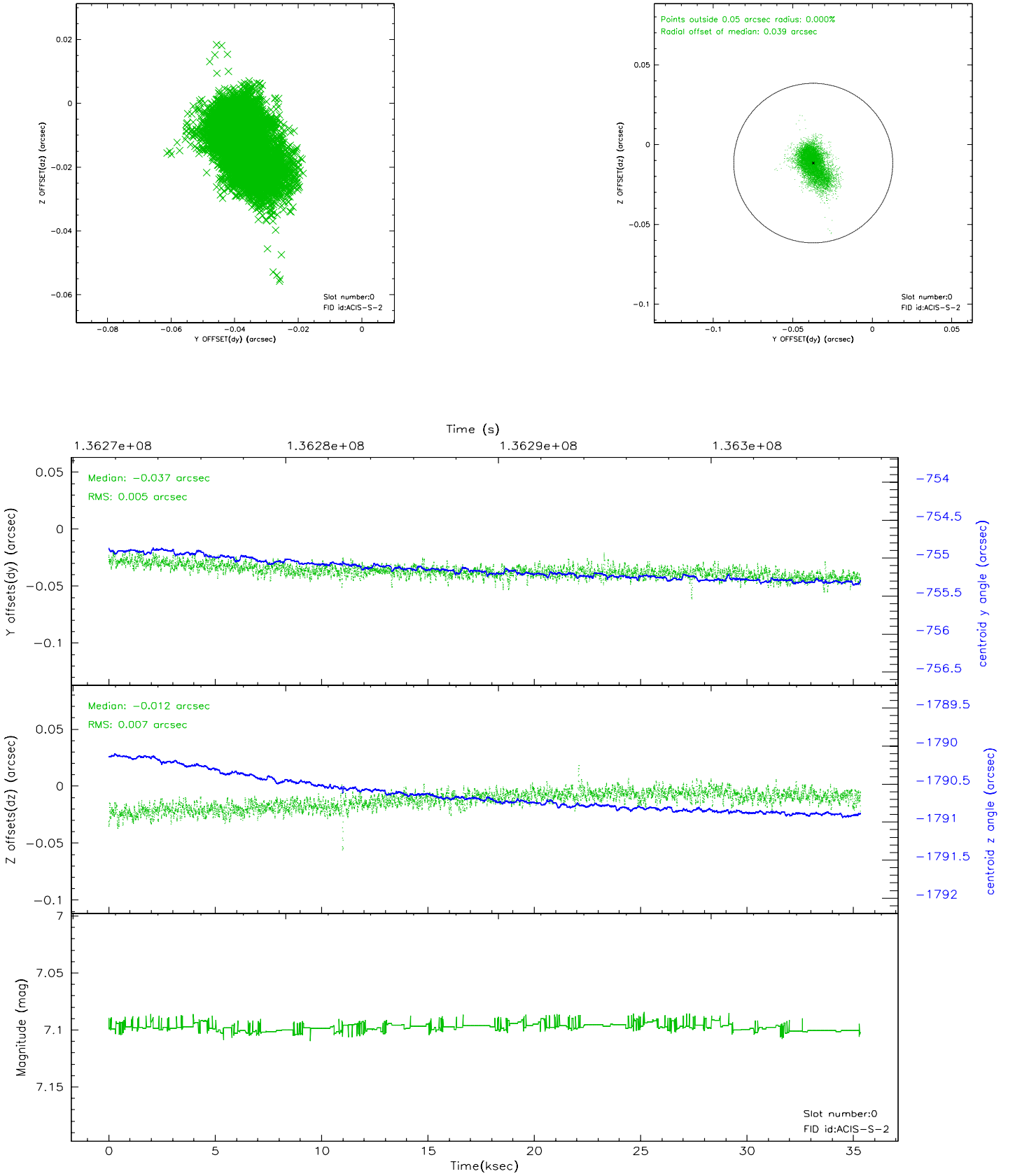


2.4.5 Slot 7

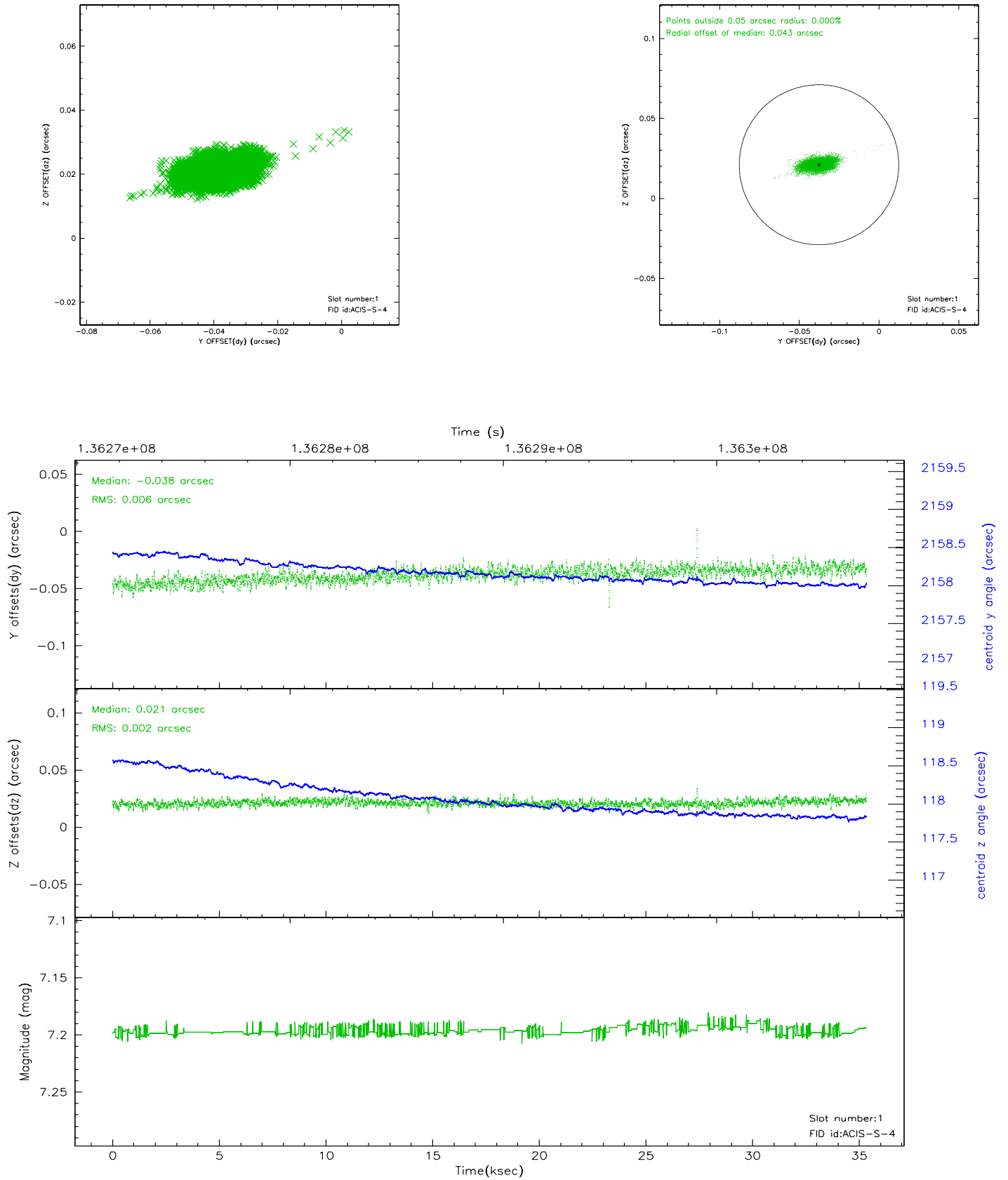


2.5 FID Slots

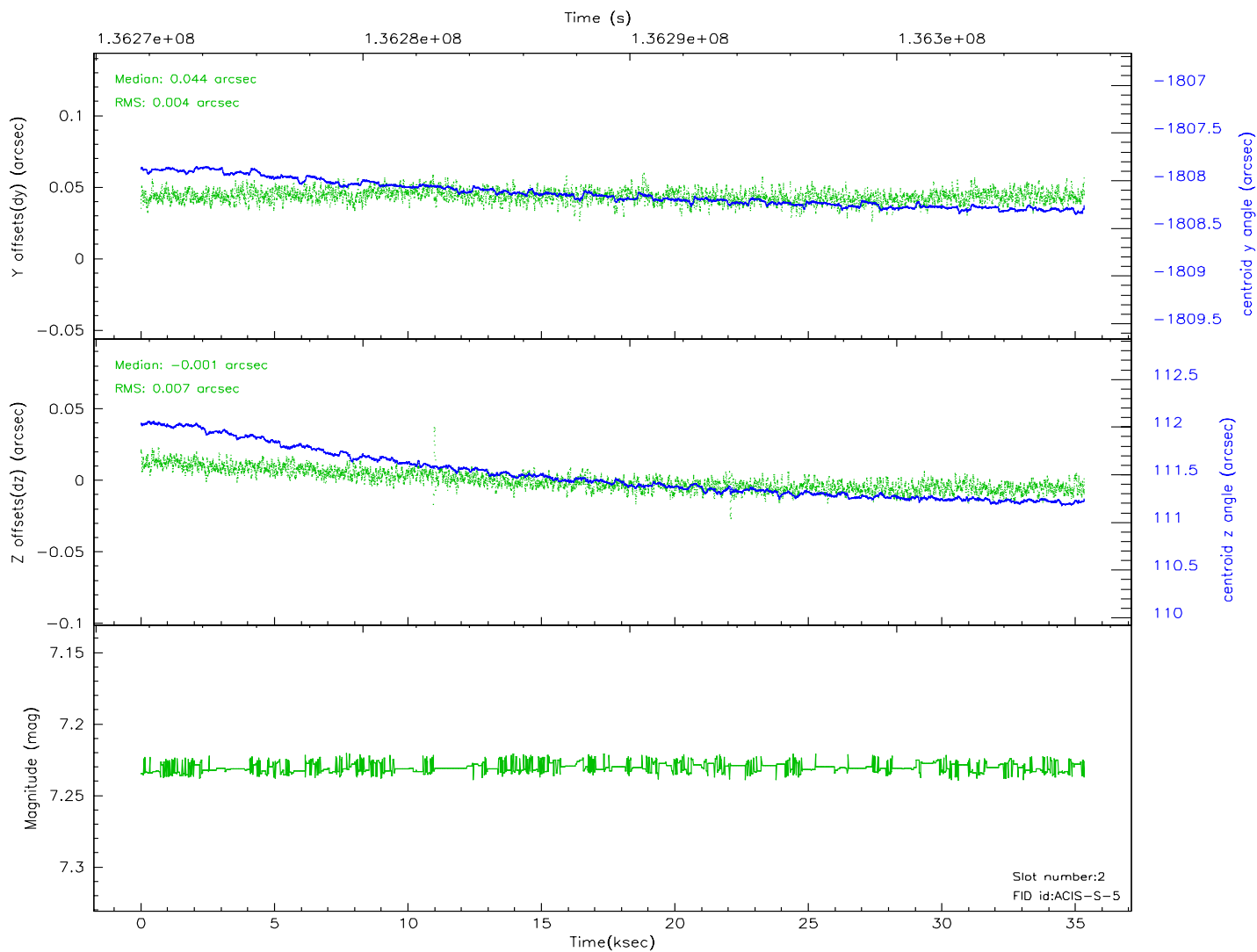
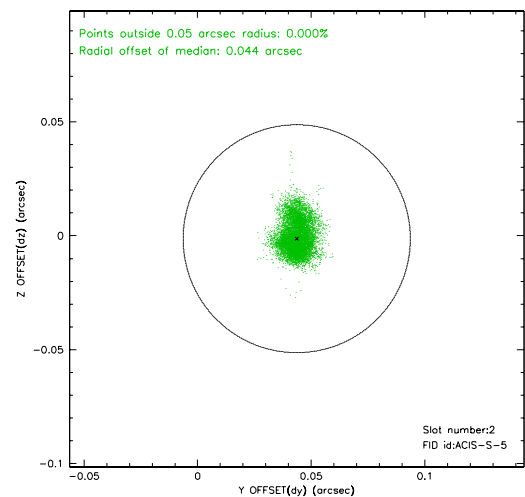
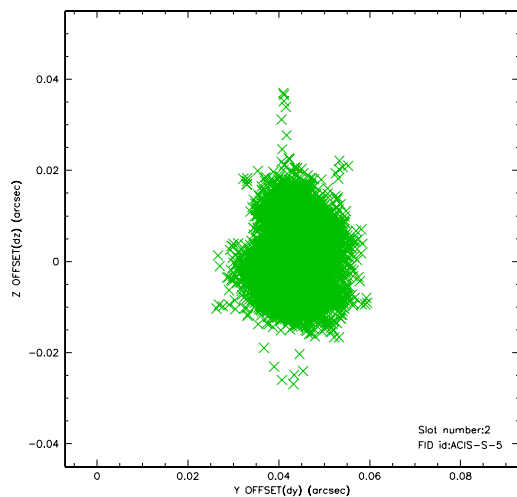
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

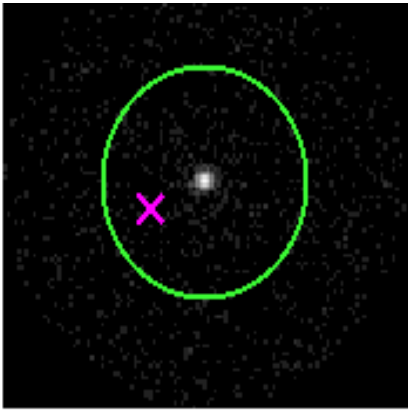


3 Gratings

3.1 HEG Arm



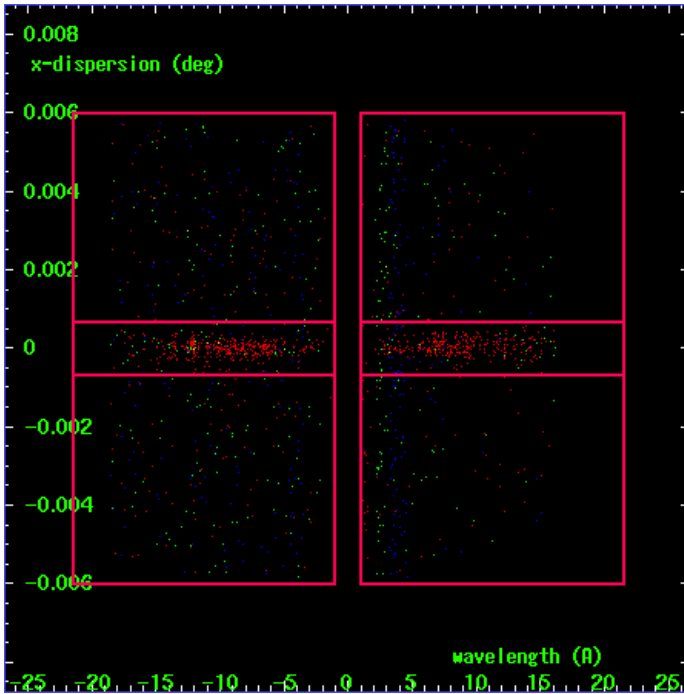
HEG Order Sort 123



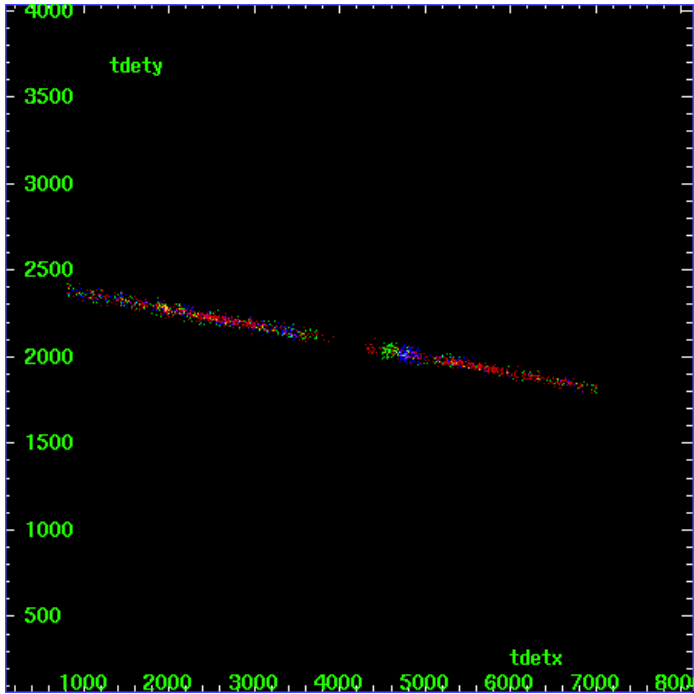
HEG Zero Order



HEG Order Sort ALL

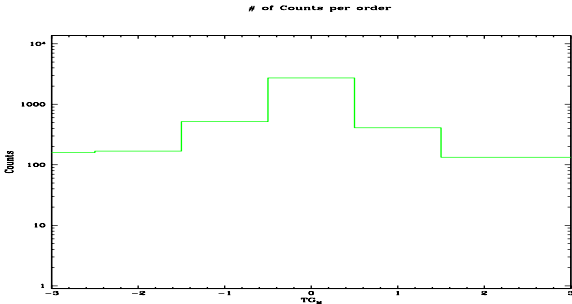


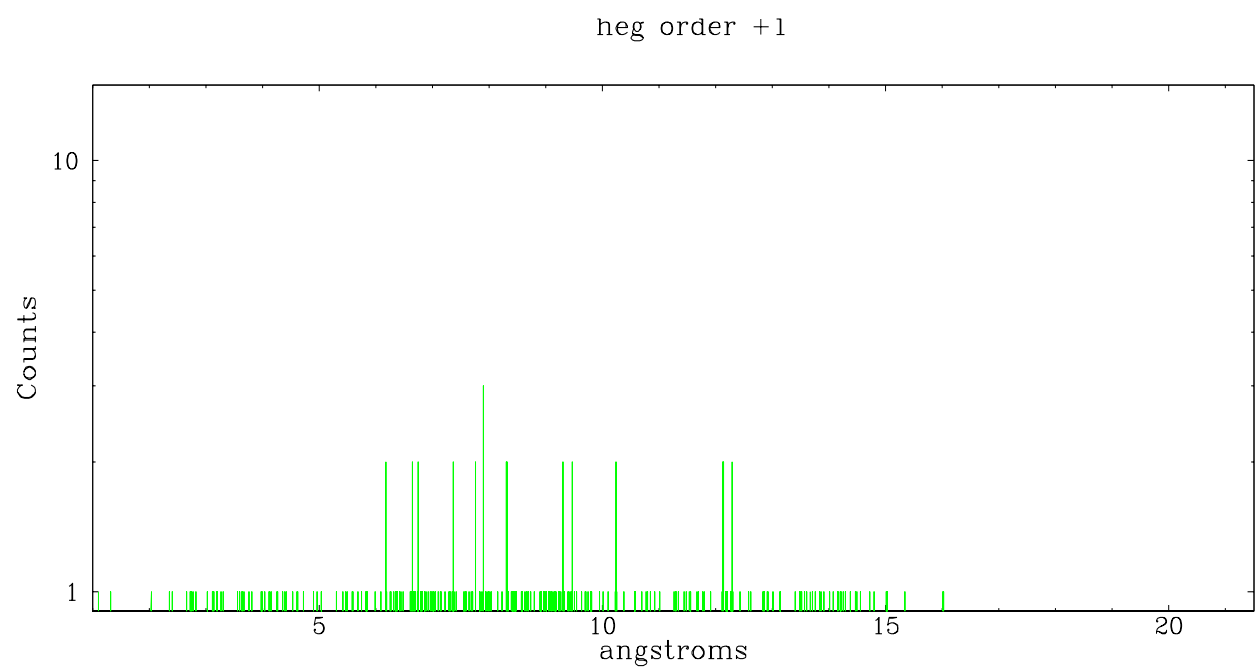
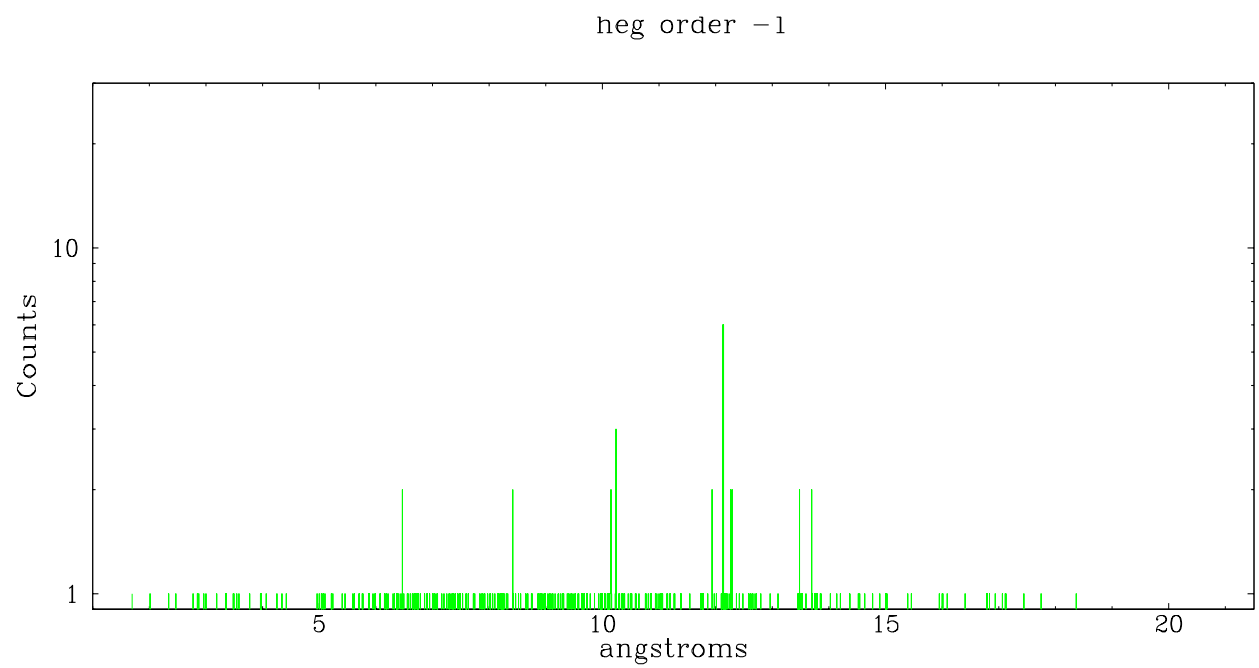
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	159	169	519	2724	409	133	133

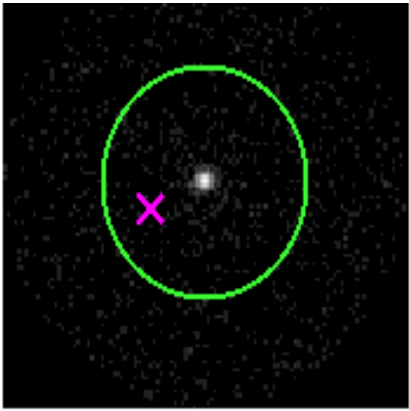




3.2 MEG Arm



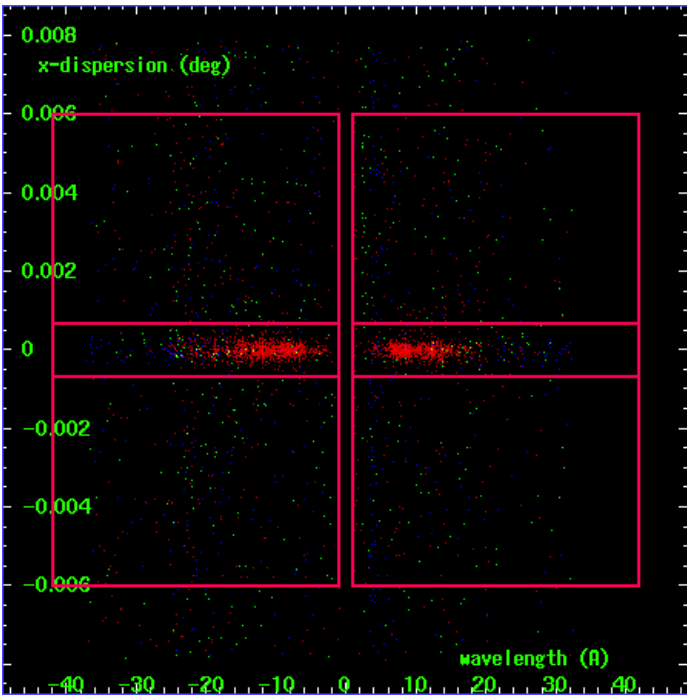
MEG Order Sort 123



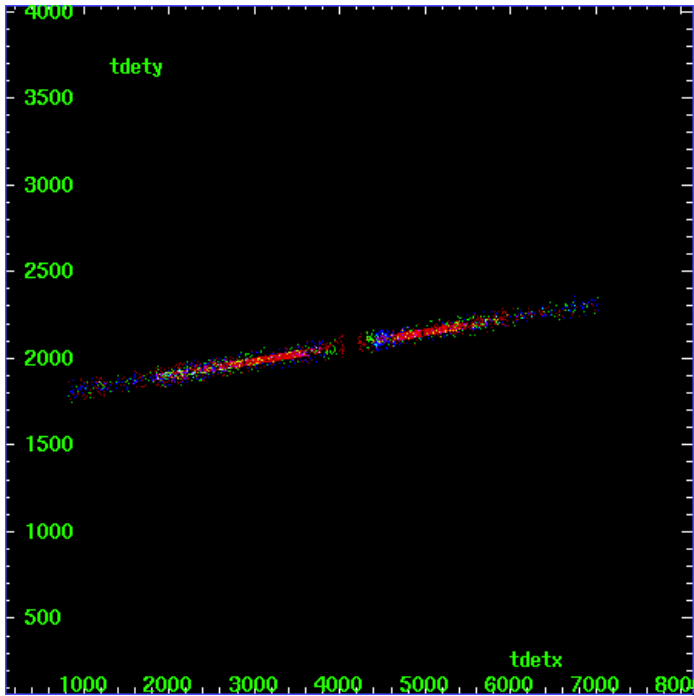
MEG Zero Order



MEG Order Sort ALL

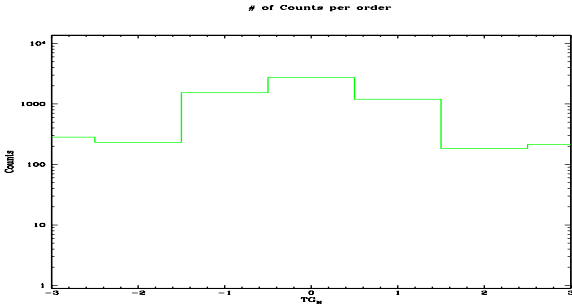


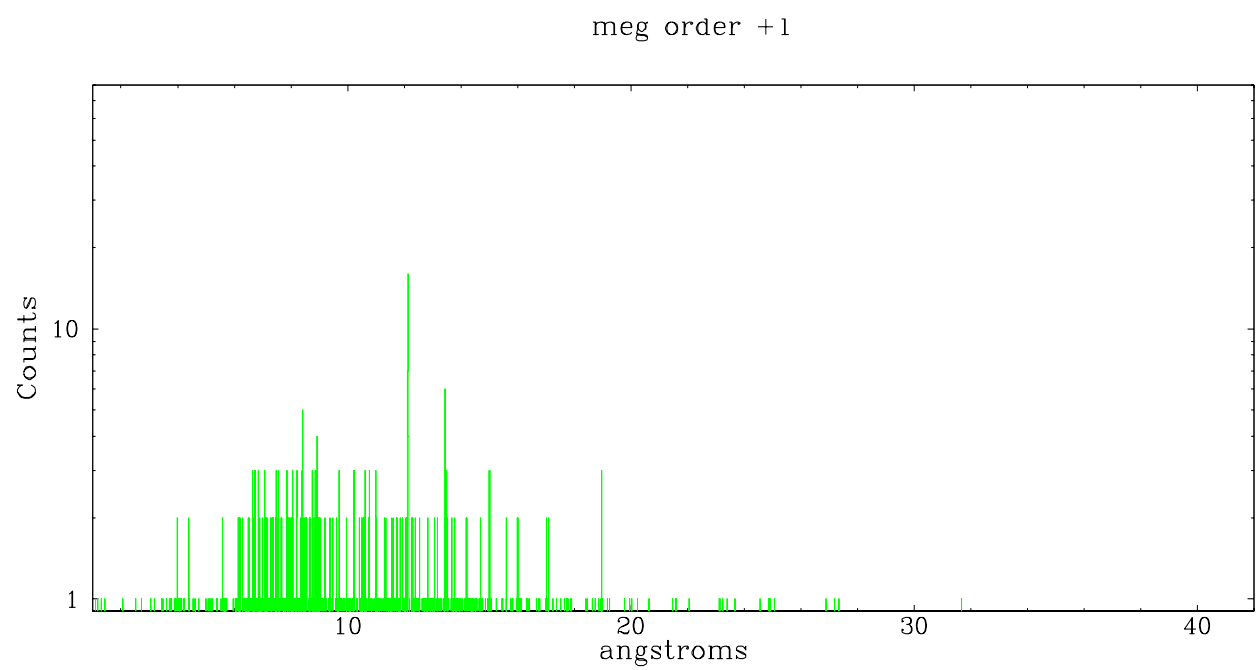
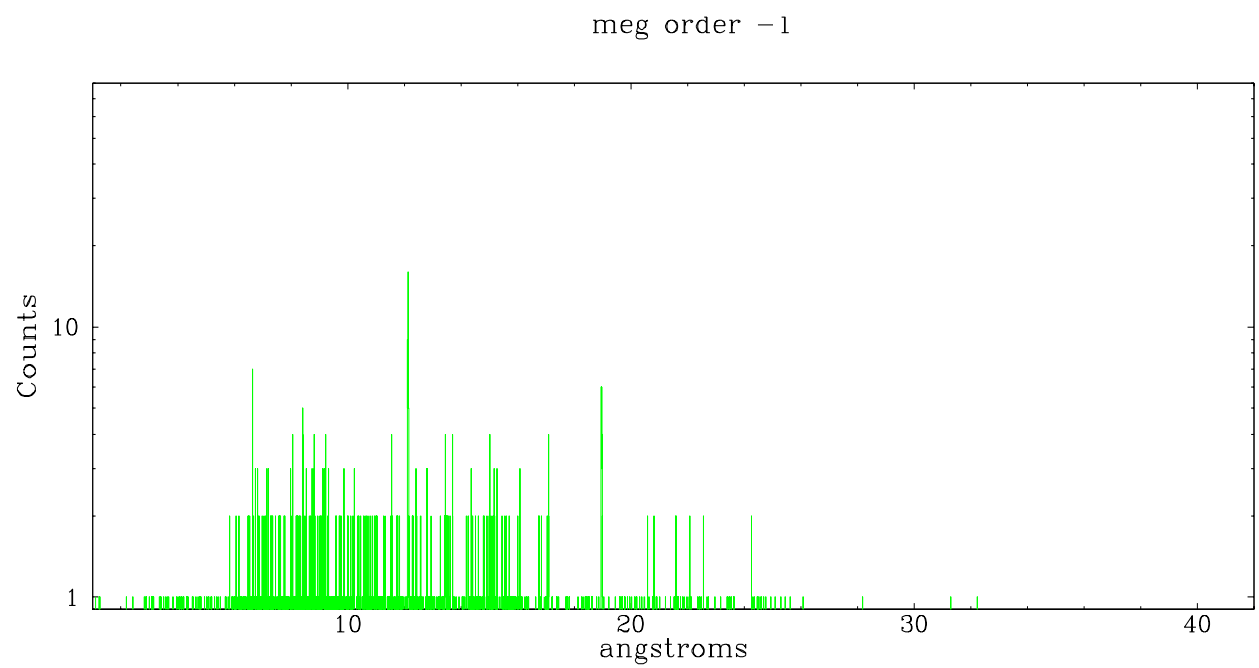
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	282	232	1530	2724	1199	183	215





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.167

A.2 Comments