

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2571 - L2 Version 001
Chandra X-Ray Center

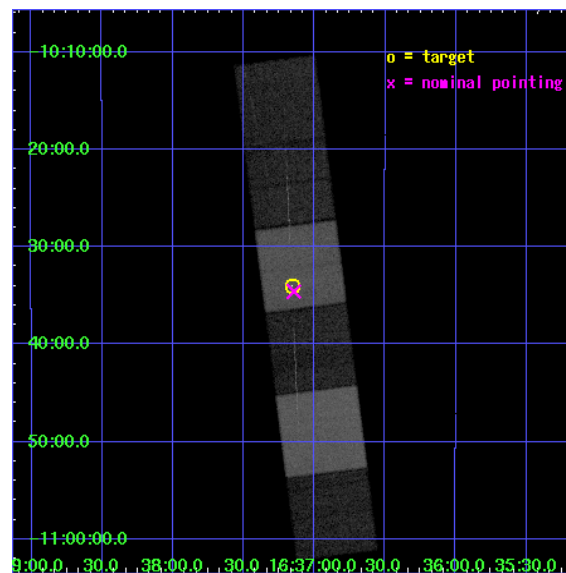
L2 Processing Date : Oct 13 2006

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1 Front

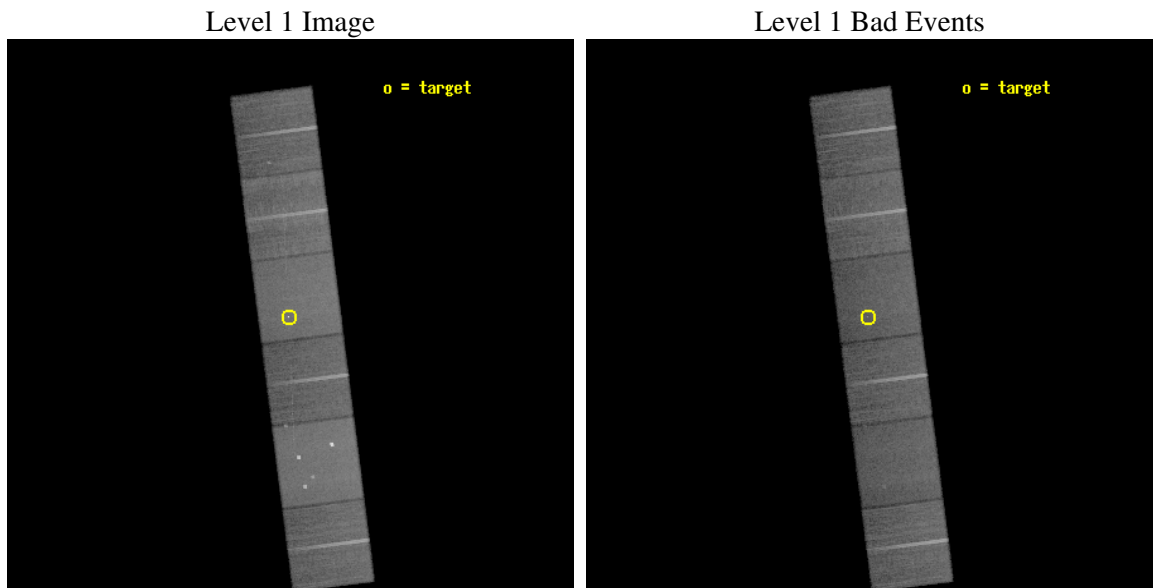
seq_num	200179
obs_id	2571
title	CHANDRA HETGS OBSERVATIONS OF THE RAPIDLY ROTATING OE STAR ZETA OPH
observer	Dr. Wayne Waldron
object	ZETA OPH
dtcycle	0
cycle	P
ra_targ	249.289167
dec_targ	-10.567222
ra_nom	249.28620171484
dec_nom	-10.576446011316
roll_nom	262.65407803939
revision	2
ontime	35868.799866378
livetime	35414.607524872
ontime4	35868.799866378
ontime5	35868.799866378
ontime6	35868.799866378
ontime7	35868.799866378
ontime8	35868.761933327
ontime9	35868.72101292
l2events	333147



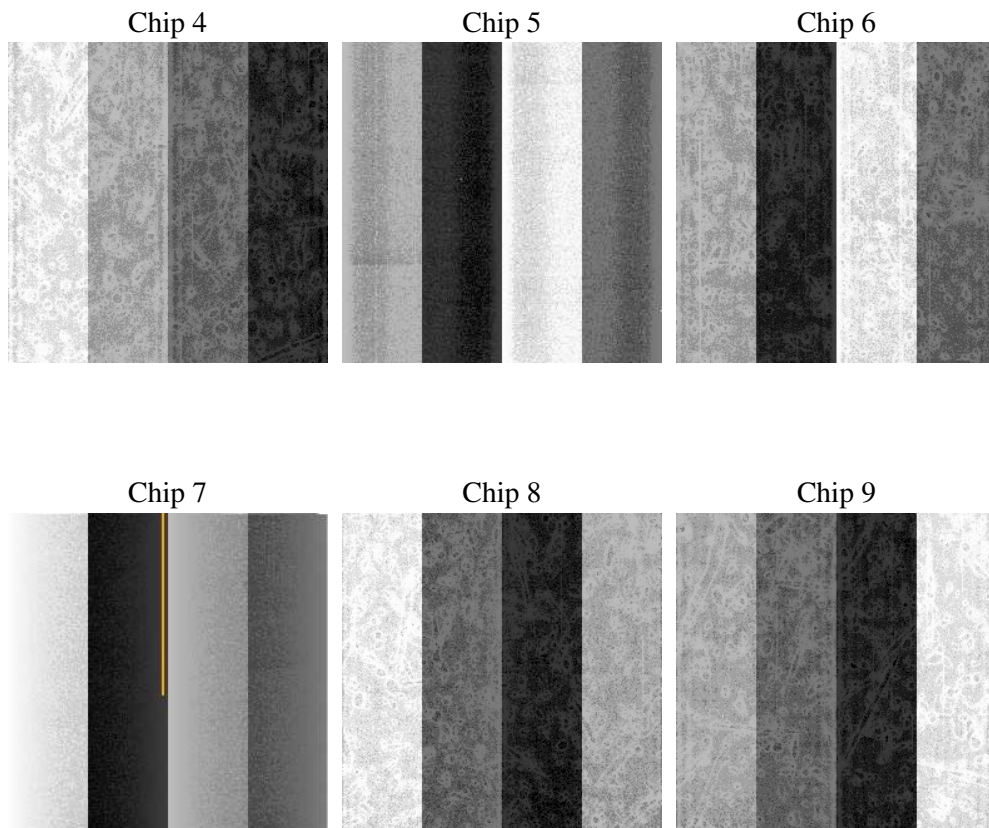
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-02T20:34:26
revision	2

sched_exp_time	36111.579000
ontime	35871.390340567
ontime4	35871.390340567
ontime5	35871.390340567
ontime6	35871.390340567
ontime7	35871.390340567
ontime8	35871.390221
ontime9	35871.390340567
l1events	1581404

2.1.4 Events

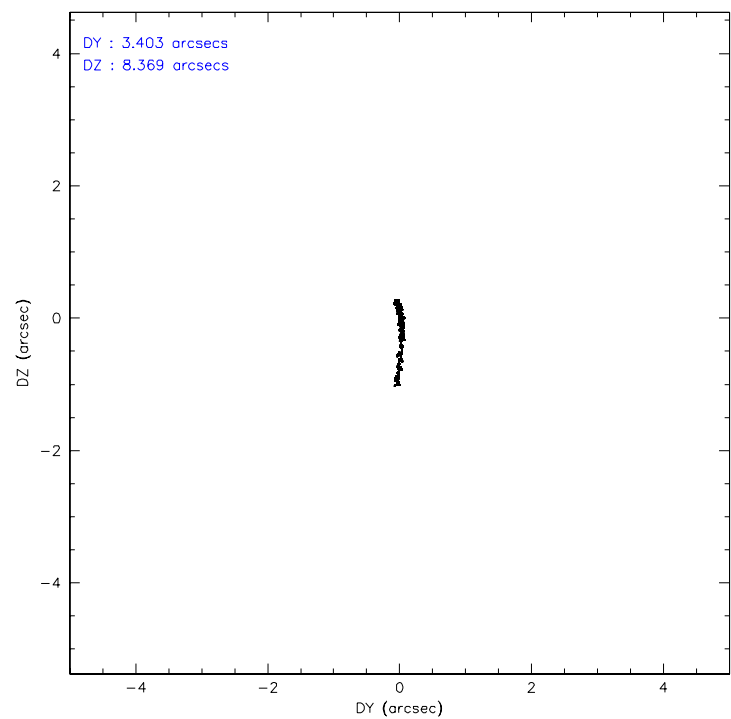
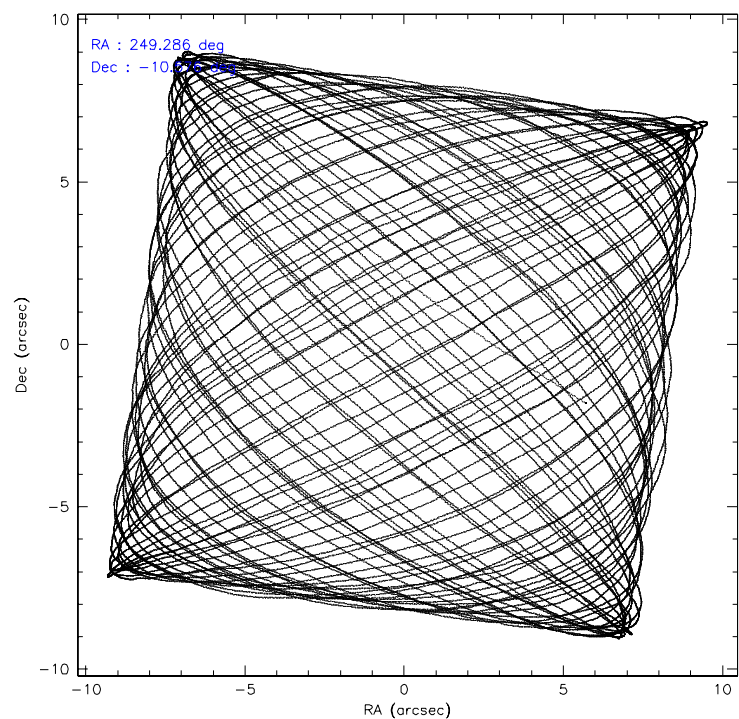
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	242354	326720	223740	290167	279146	219277
rejected events	215458	177300	197580	178392	221930	192576
rejected %	88%	54%	88%	61%	79%	87%

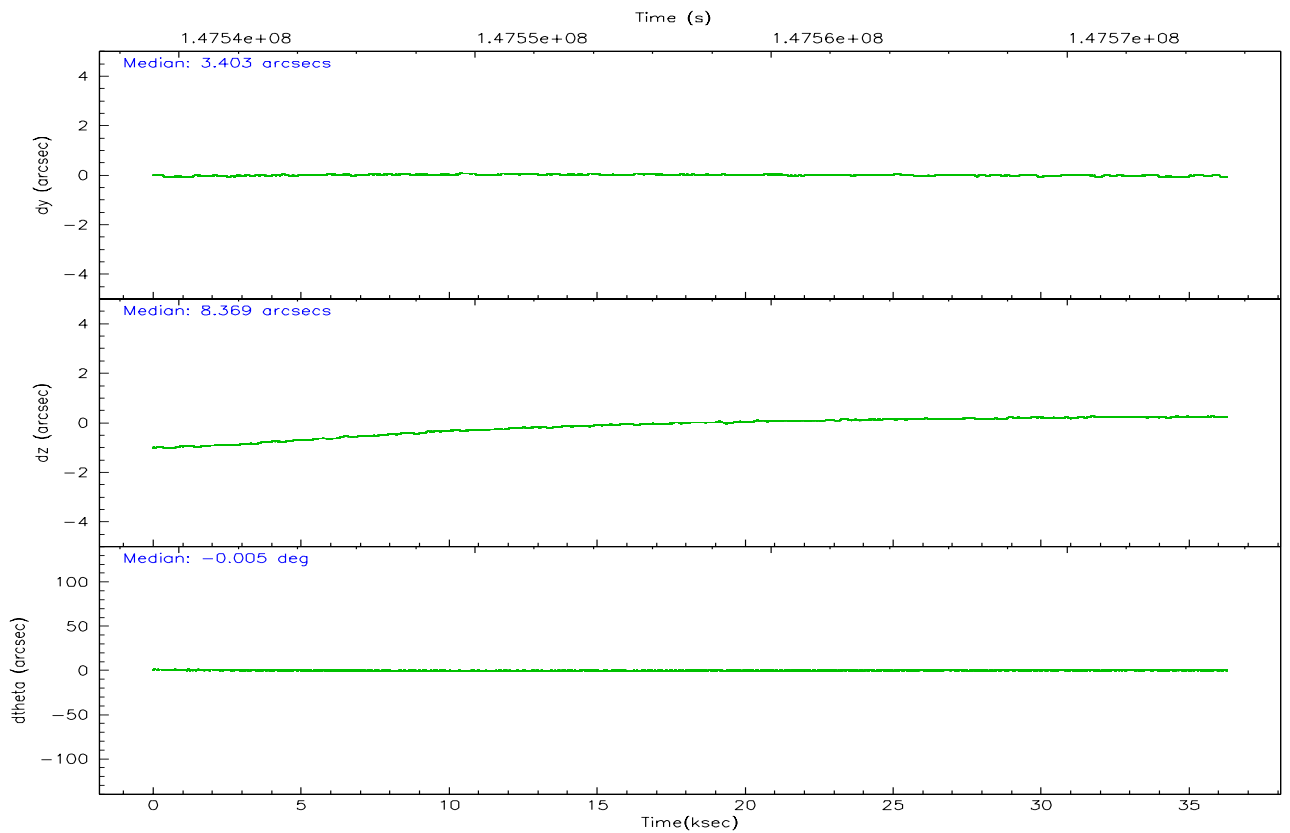
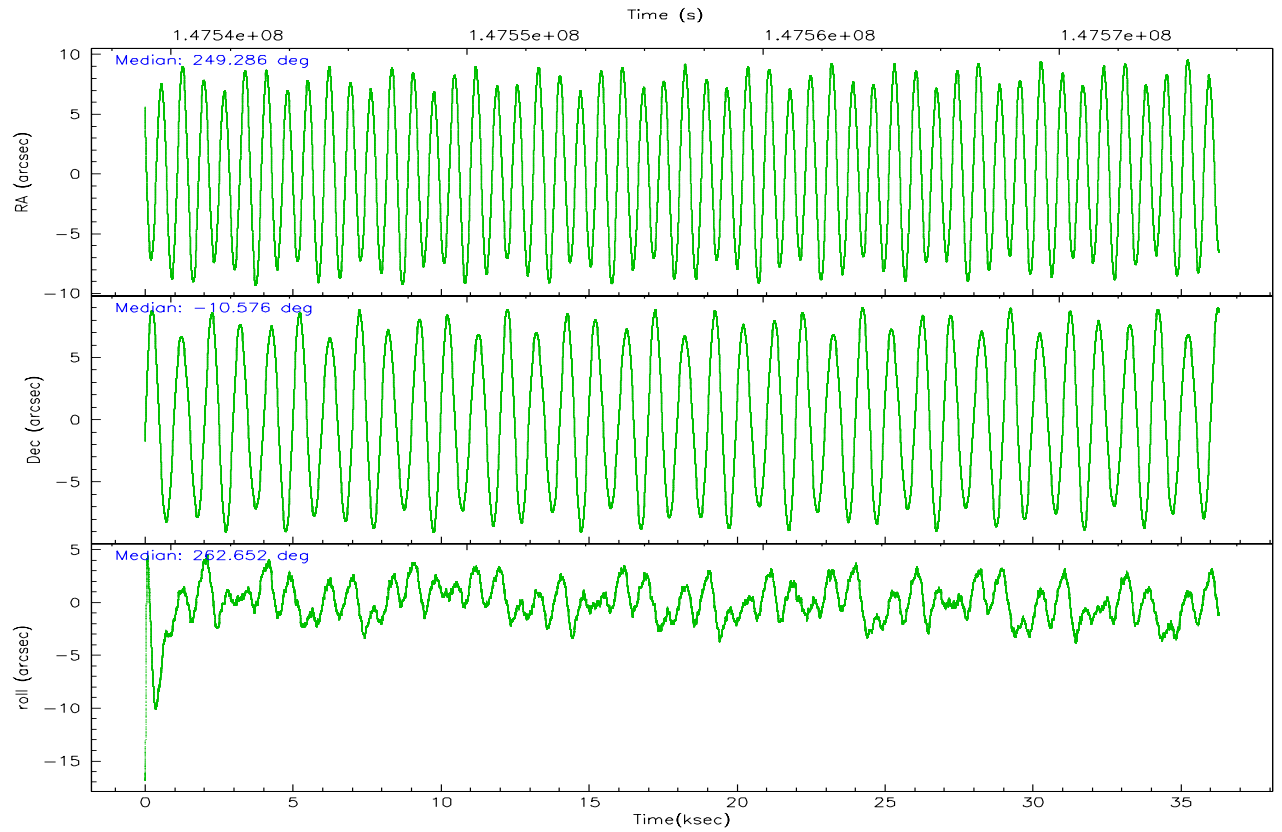
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	11759	21013	10870	6758	18712	11405
	4%	6%	4%	2%	6%	5%
grade 1 events	199	534	106	194	186	119
	0%	0%	0%	0%	0%	0%
grade 2 events	5628	42322	5186	27310	12047	5026
	2%	12%	2%	9%	4%	2%
grade 3 events	2809	3156	2411	5987	6219	2625
	1%	0%	1%	2%	2%	1%
grade 4 events	2646	3006	2545	5987	5844	2614
	1%	0%	1%	2%	2%	1%
grade 5 events	9145	15338	9795	19527	12540	10415
	3%	4%	4%	6%	4%	4%
grade 6 events	4056	79933	5150	65752	14396	5033
	1%	24%	2%	22%	5%	2%
grade 7 events	206112	161418	187677	158652	209202	182040
	85%	49%	83%	54%	74%	83%

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	249.275207	249.2862017148381	Subarray requested	NONE	NONE
Pointing Dec	-10.551465	-10.57644601131578	Alternating exposures requested	N	N
Pointing Roll	262.495443	262.6540780393944	Primary exposure time	0.000000	3.2
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	147539299.184000	147538492.56727			
Observation start date	2002-09-04T15:07:15	2002-09-04T14:54:52			
Observation end time	147575410.184000	147575725.1813			
Observation end date	2002-09-05T01:09:06	2002-09-05T01:15:25			
Read mode	TIMED	TIMED			

2.3 Aspect



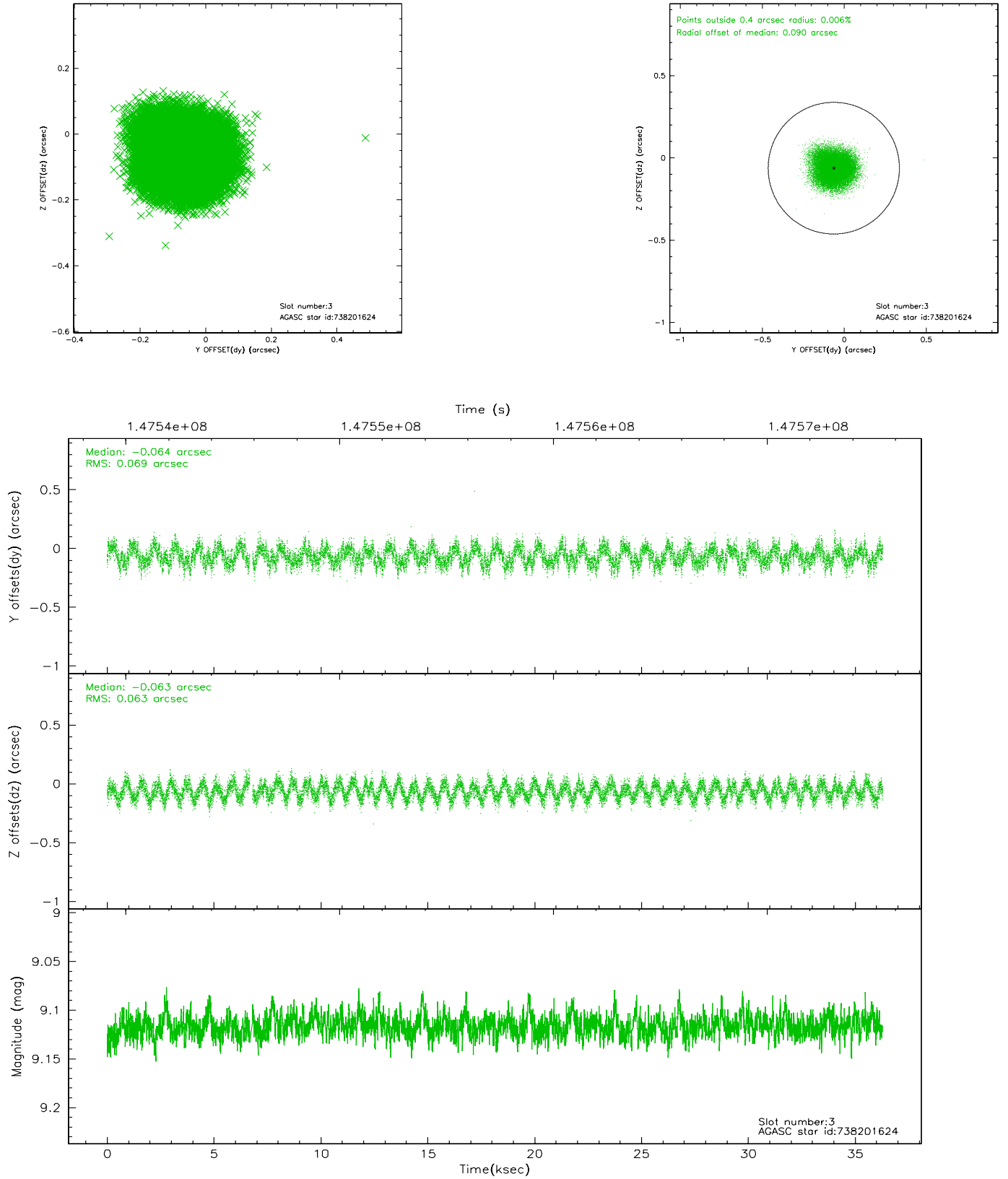


Slot Statistics

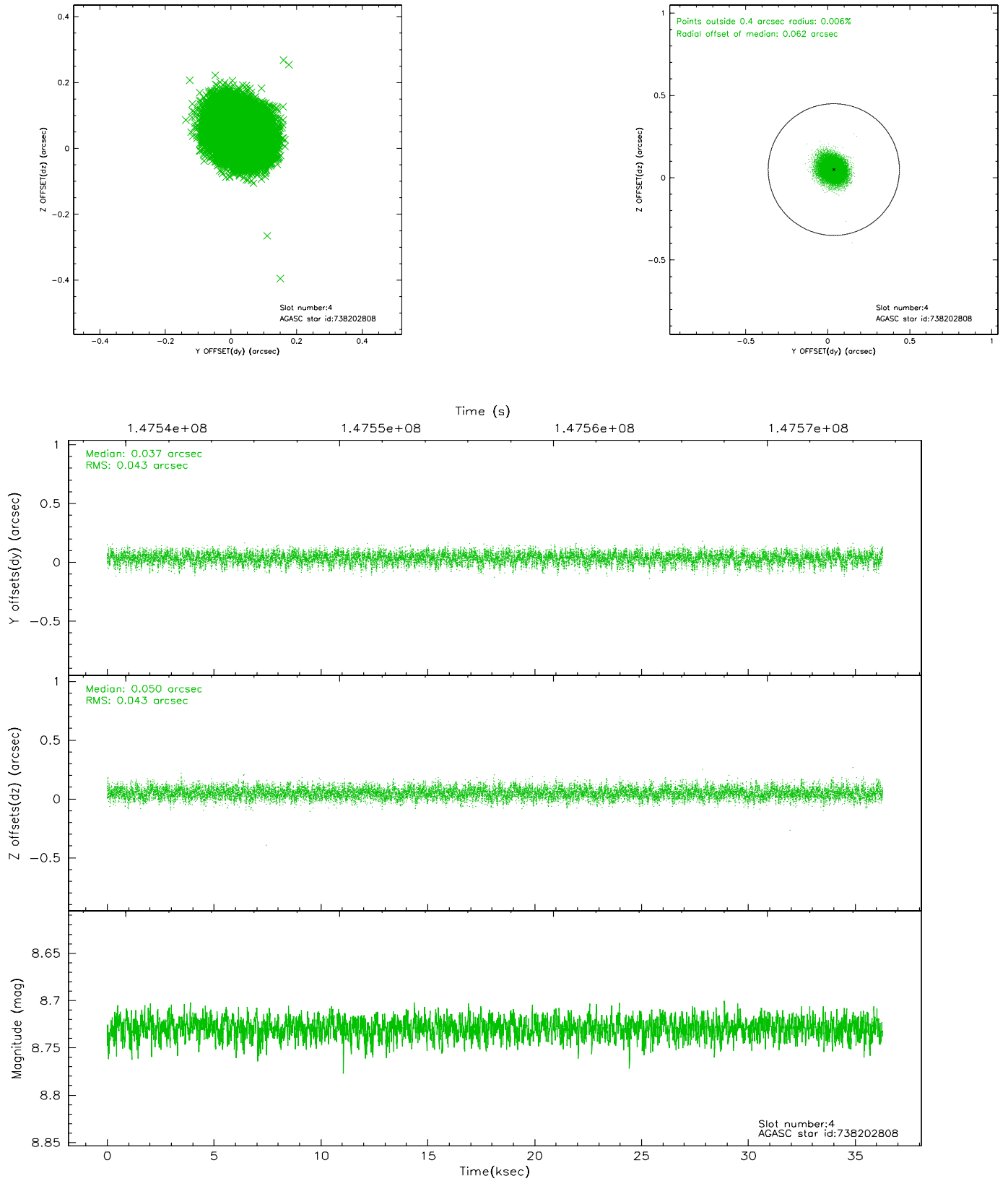
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	8852	-0.048	-0.007	0.008	0.016	0.000000	0.000000	-755.86	-1791.53
1	FID	ACIS-S-4	7.20	8853	0.003	0.025	0.006	0.011	0.000000	0.000000	2157.41	117.00
2	FID	ACIS-S-5	7.23	8853	0.015	-0.010	0.007	0.013	0.000000	0.000000	-1808.63	110.60
3	GUIDE	738201624	9.12	17631	-0.064	-0.063	0.103	0.153	249.568343	-10.190982	-1420.79	860.58
4	GUIDE	738202808	8.73	17695	0.037	0.050	0.065	0.106	249.656095	-10.848137	884.81	1475.27
5	GUIDE	738205328	9.26	17694	0.145	-0.057	0.087	0.140	249.444382	-11.182115	2174.25	889.38
6	GUIDE	738203736	7.57	17706	-0.137	0.037	0.054	0.087	249.746198	-10.264513	-1239.79	1519.73
7	GUIDE	738202792	9.88	17679	0.017	0.029	0.110	0.182	249.110436	-10.037946	-1755.39	-820.08

2.4 Star Slots

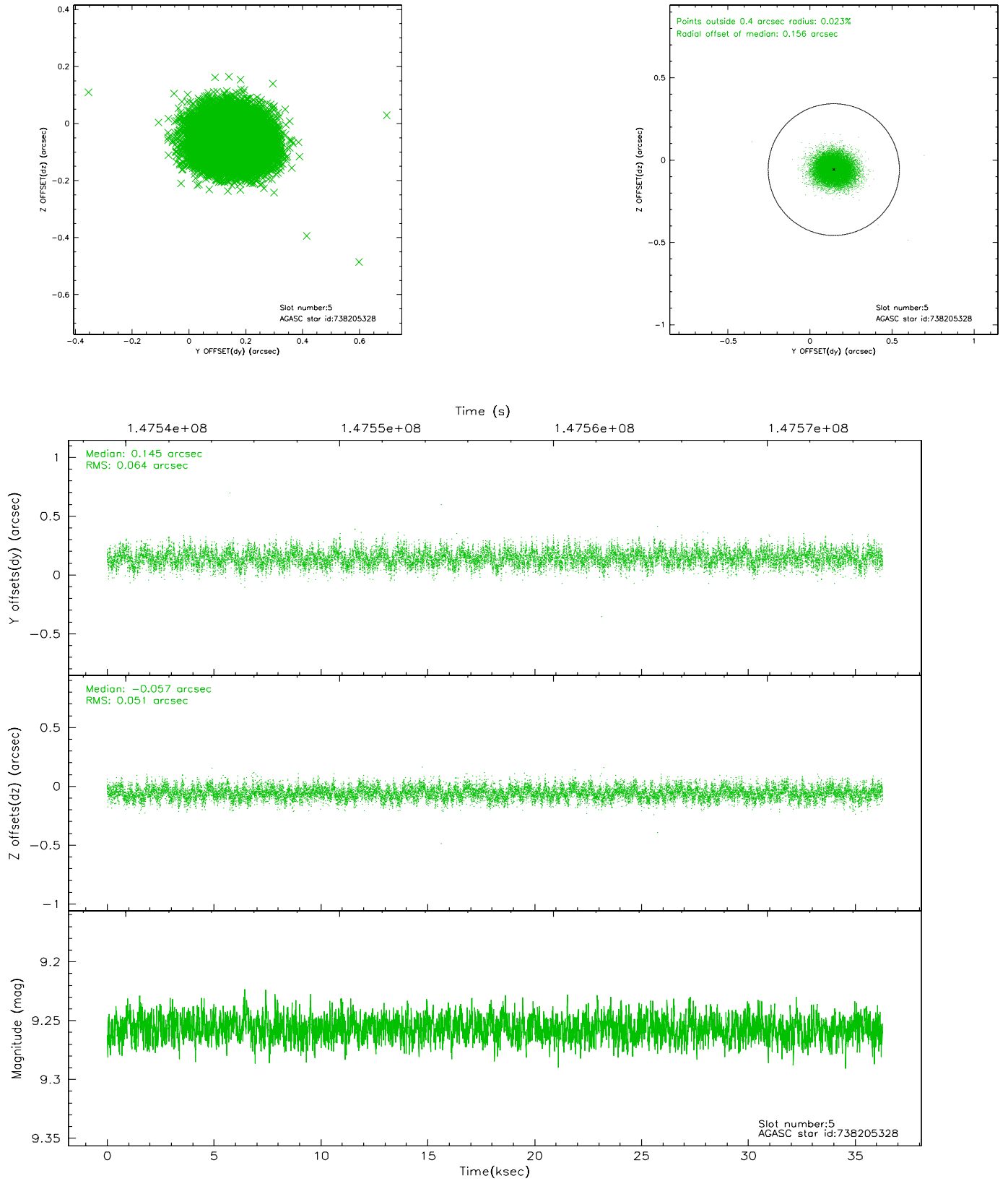
2.4.1 Slot 3



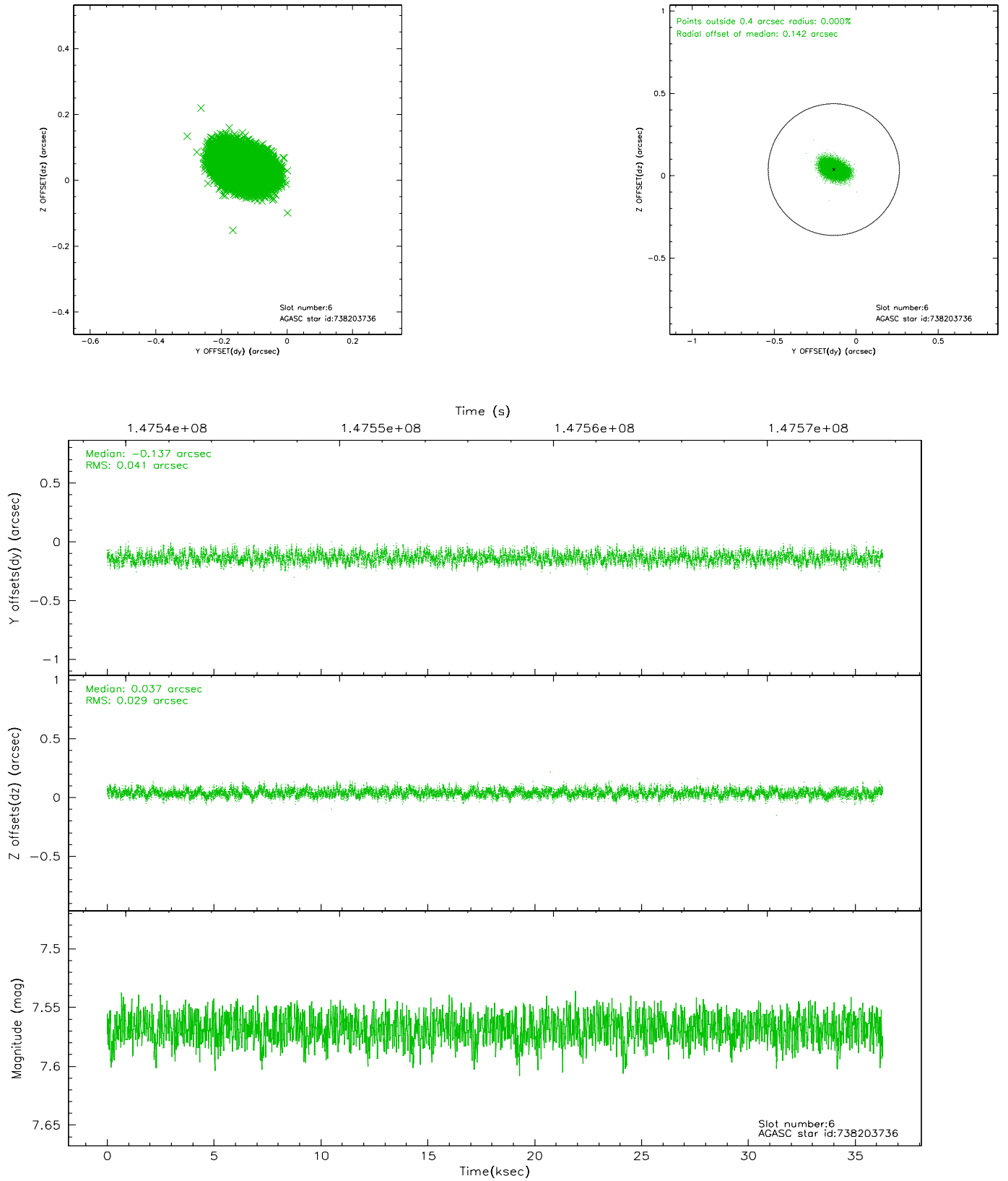
2.4.2 Slot 4



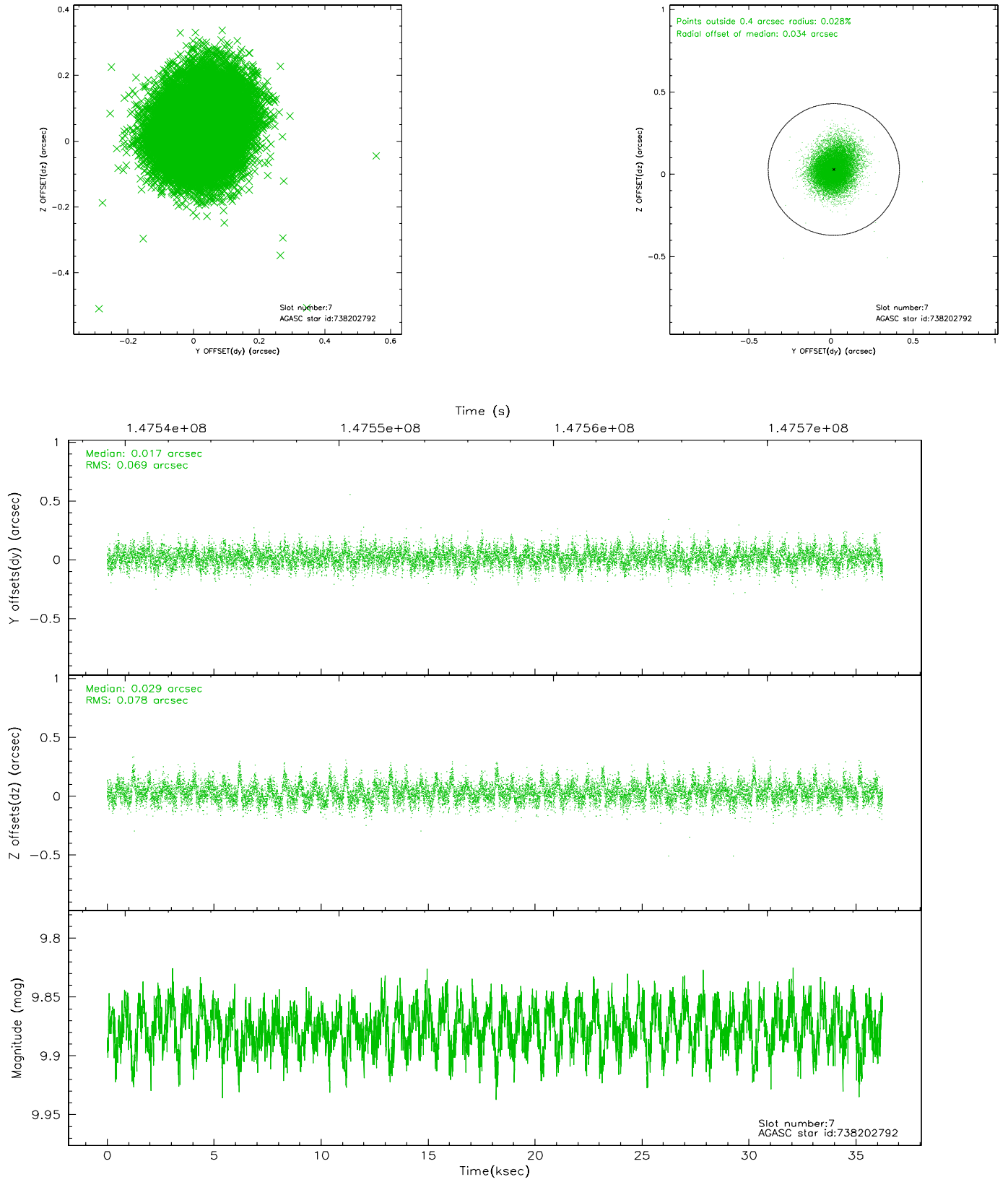
2.4.3 Slot 5



2.4.4 Slot 6

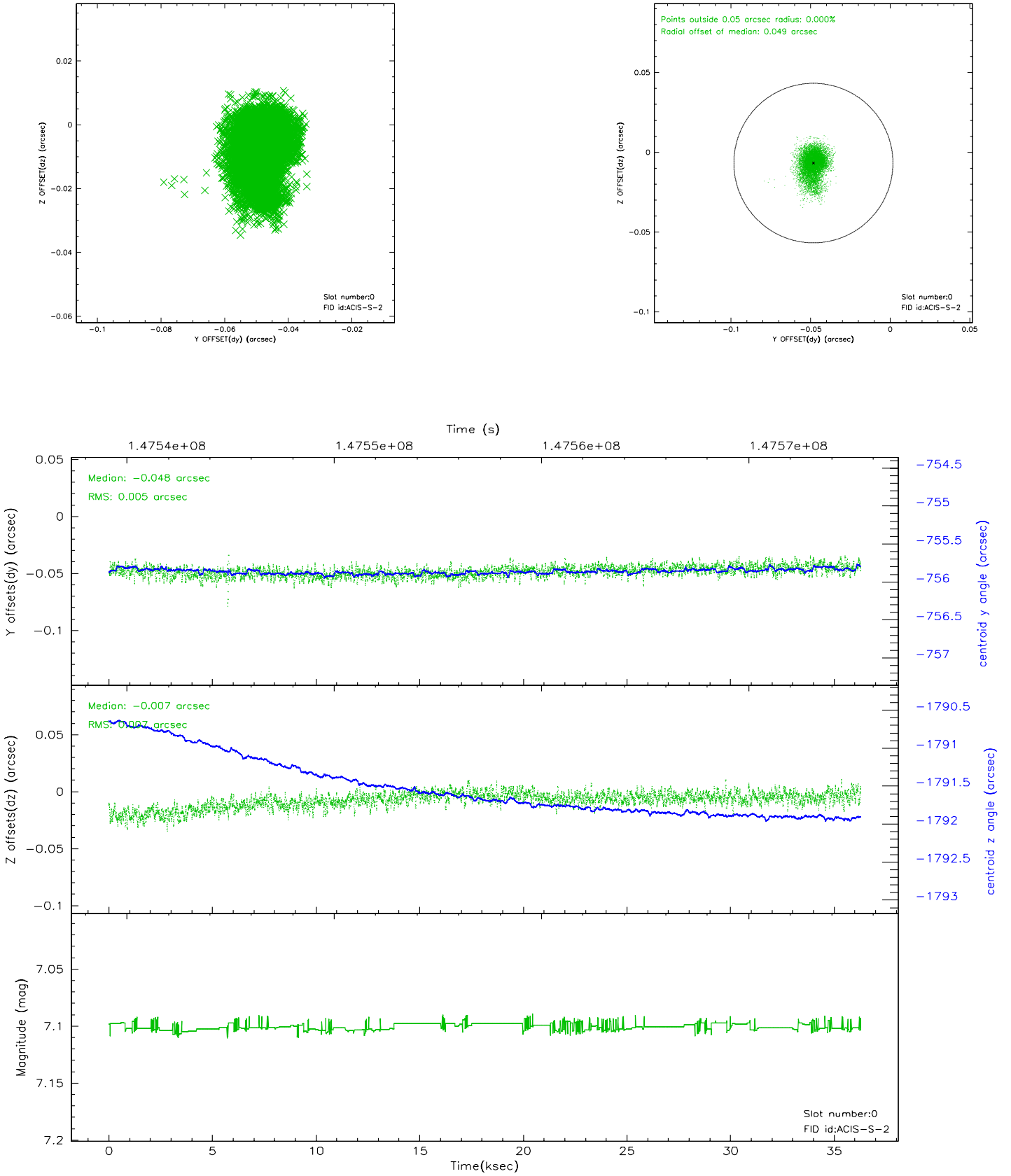


2.4.5 Slot 7

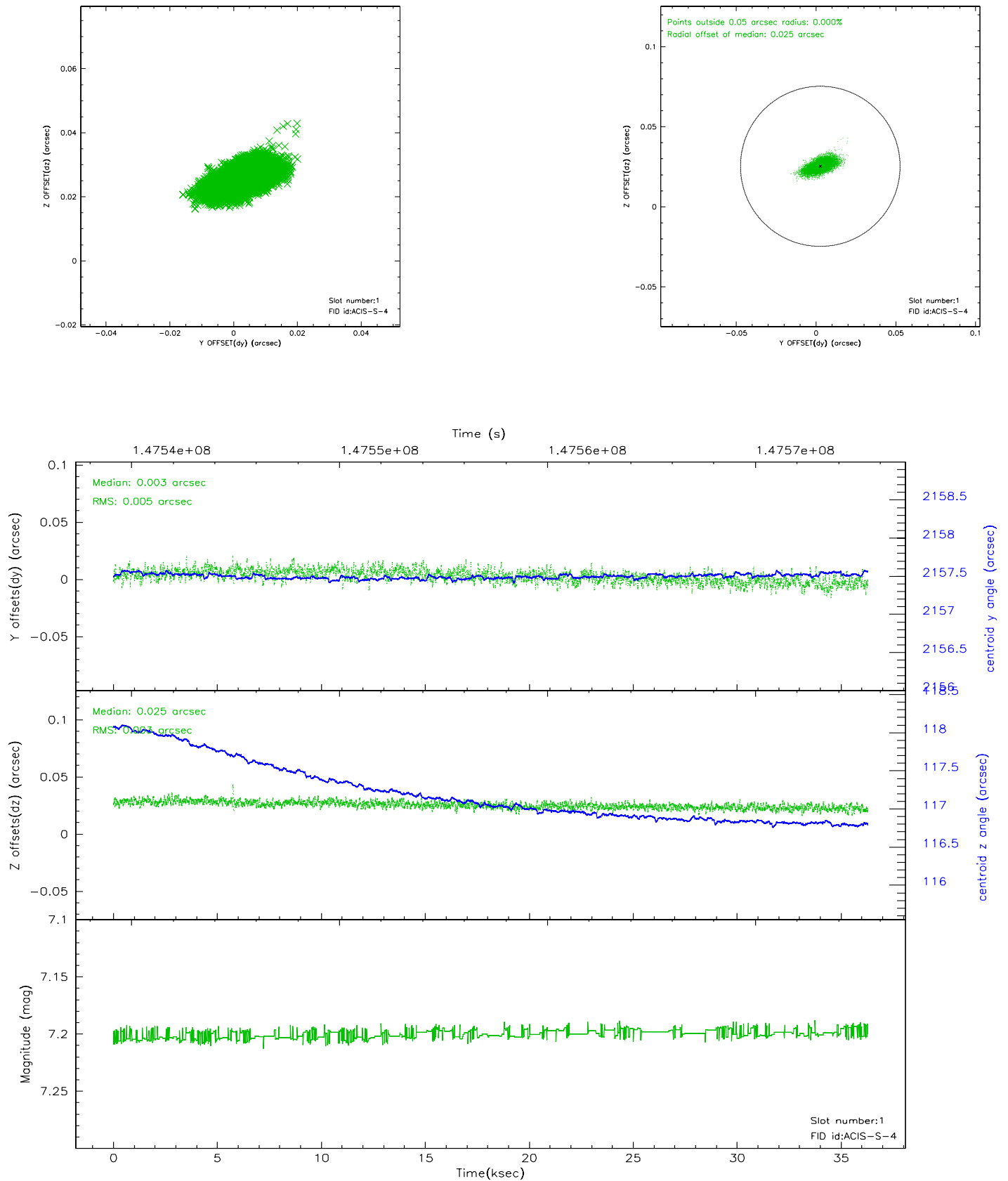


2.5 FID Slots

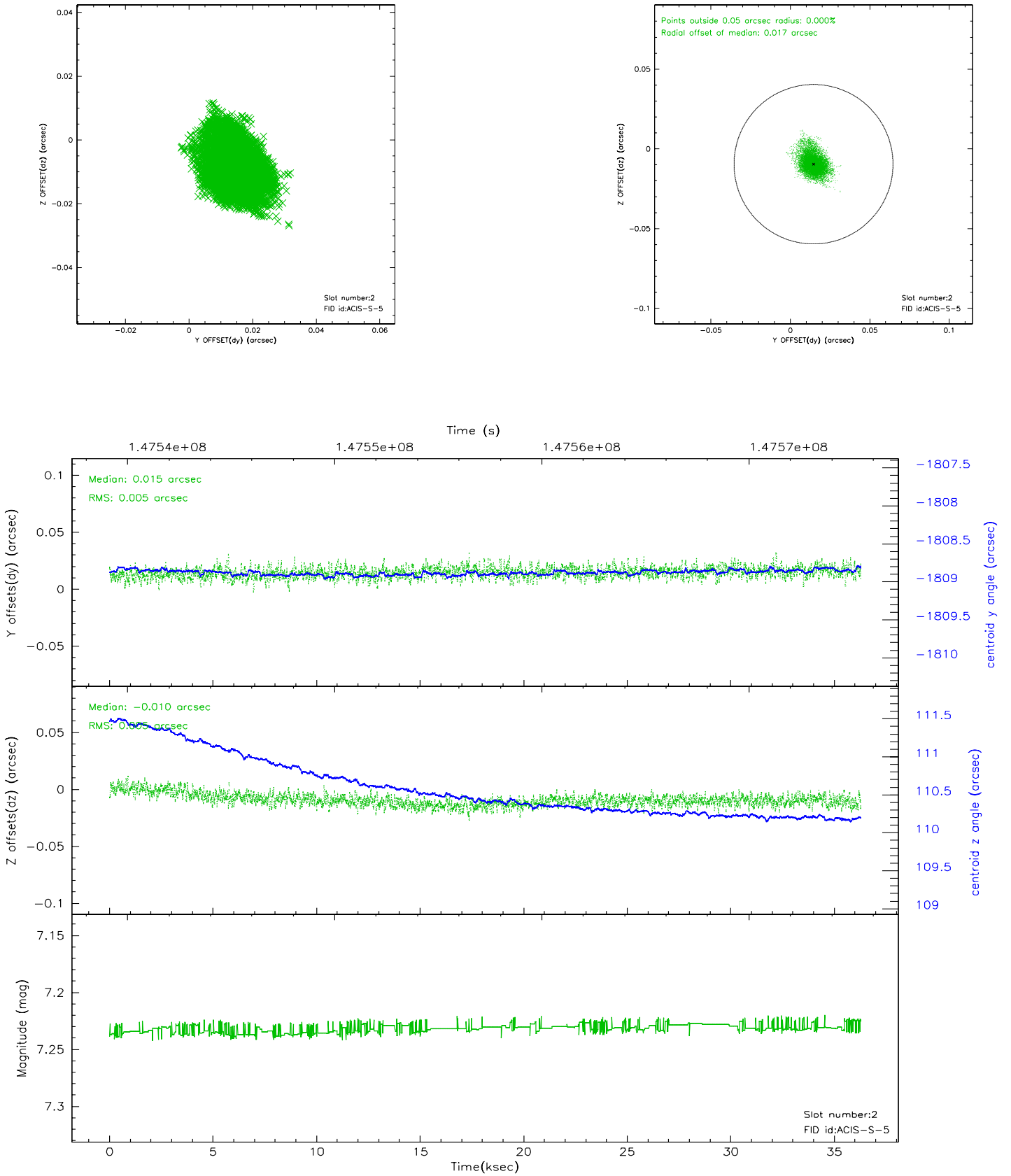
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

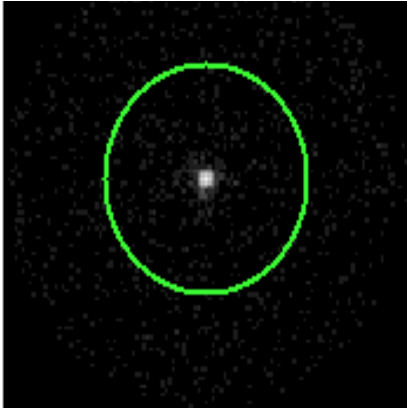


3 Gratings

3.1 HEG Arm



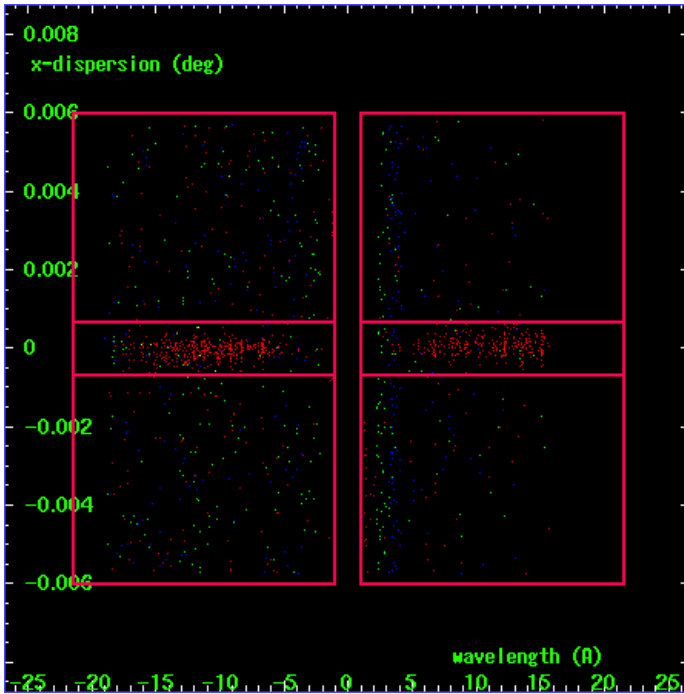
HEG Order Sort 123



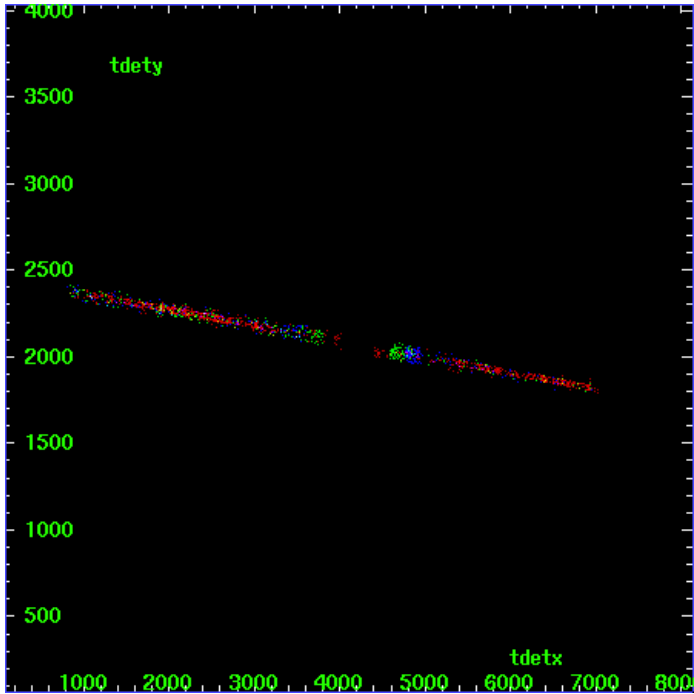
HEG Zero Order



HEG Order Sort ALL

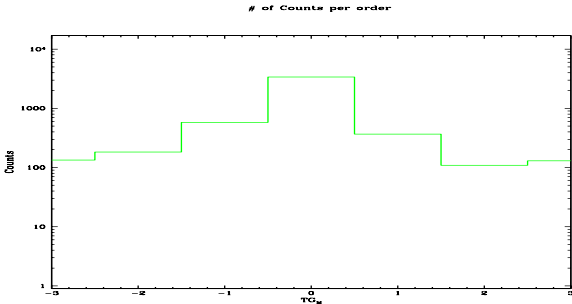


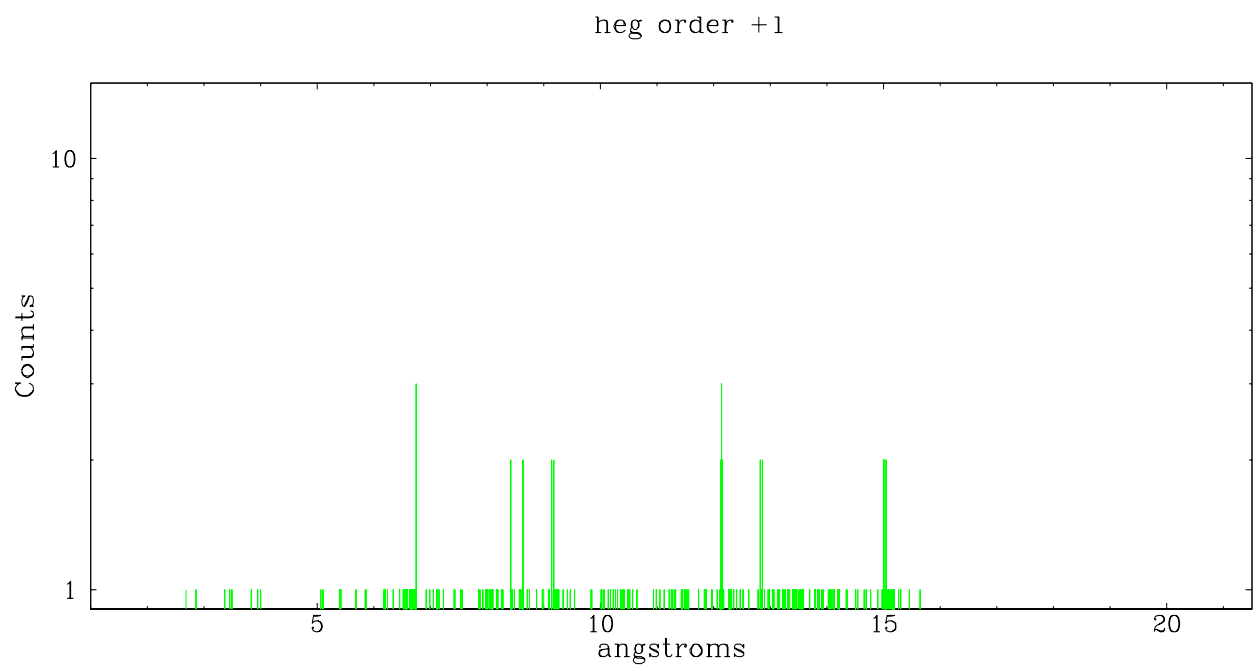
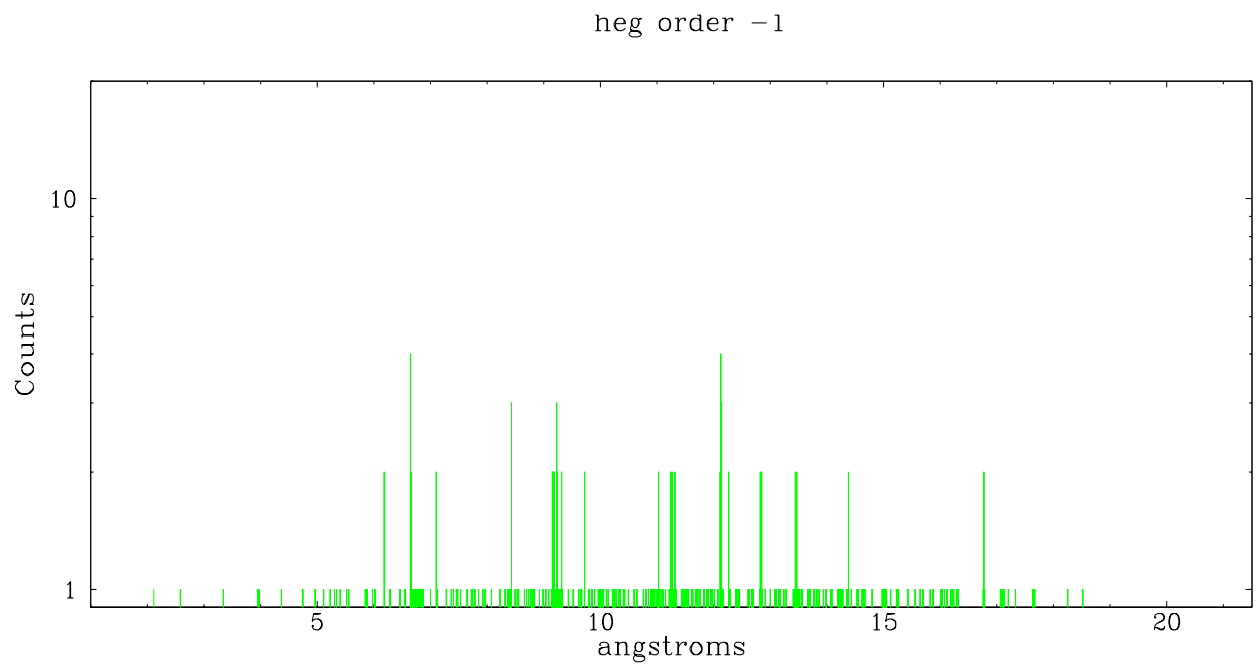
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	134	182	579	3380	366	109	130

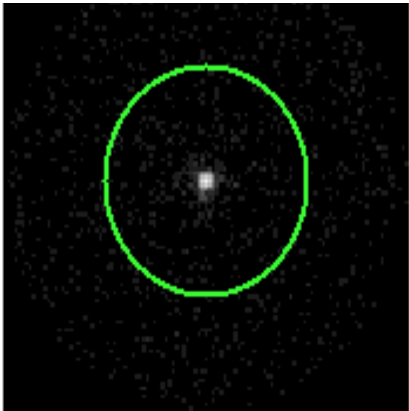




3.2 MEG Arm



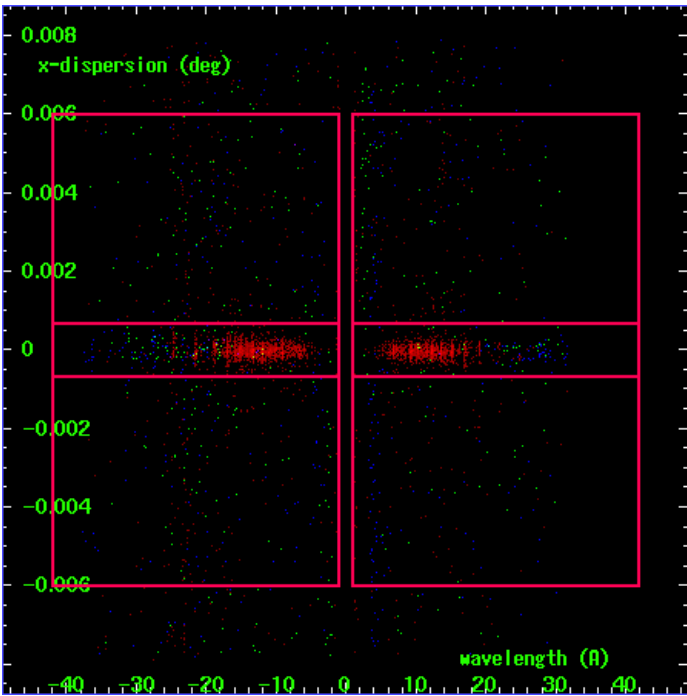
MEG Order Sort 123



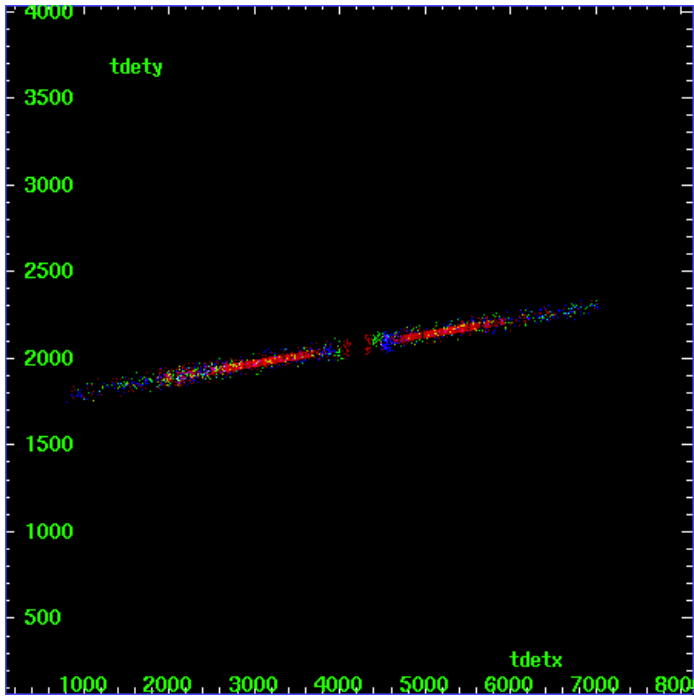
MEG Zero Order



MEG Order Sort ALL

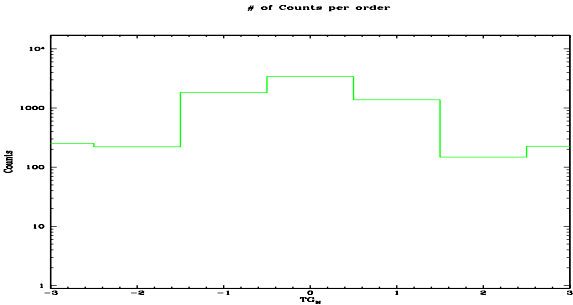


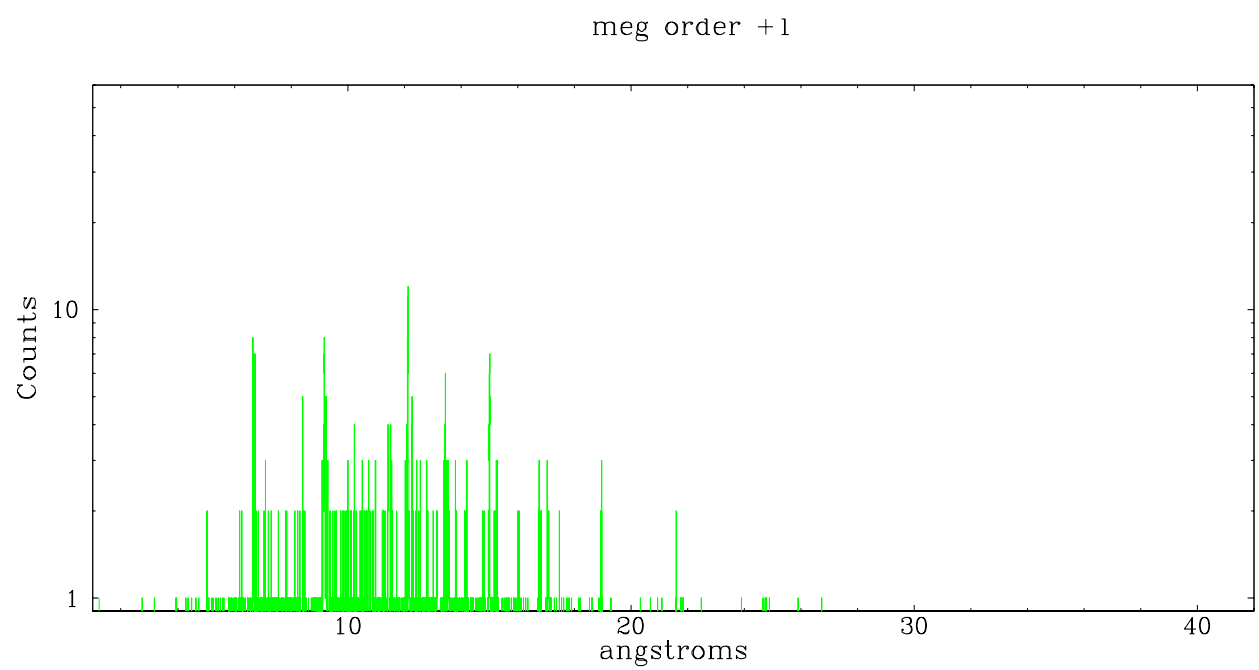
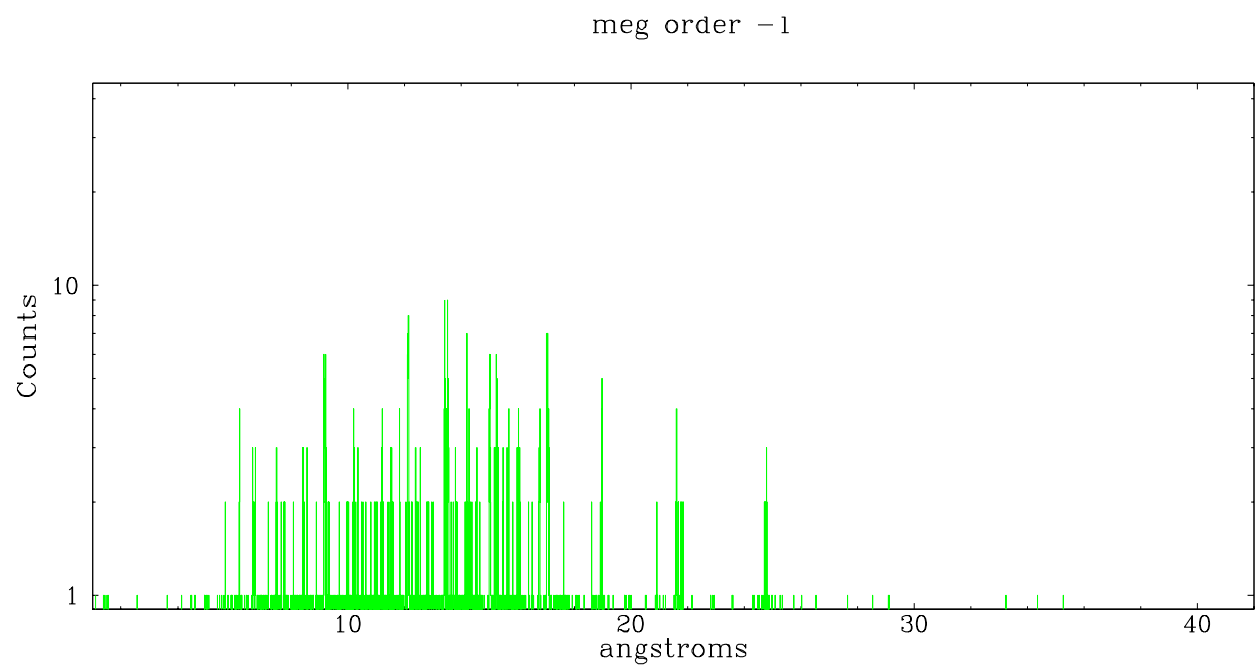
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	252	220	1825	3380	1379	148	225





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	35.868

A.2 Comments