

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3767 - L2 Version 001
Chandra X-Ray Center

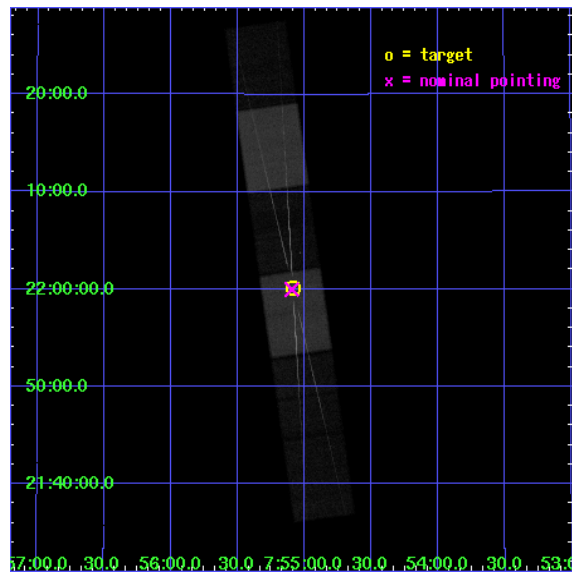
L2 Processing Date : Oct 17 2006

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1 Front

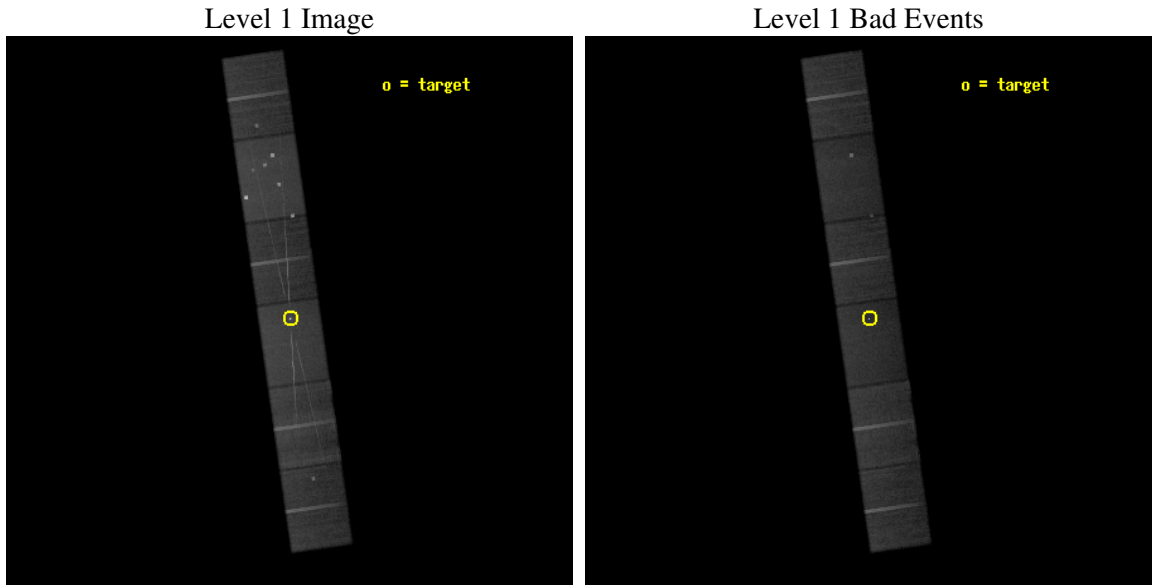
seq_num	300092
obs_id	3767
title	THE STRUCTURE OF THE BOUNDARY LAYER OF U GEMINORUM IN OUTBURST
observer	Dr. Christopher Mauche
object	U GEM
dtcycle	0
cycle	P
ra_targ	118.772083
dec_targ	22.001583
ra_nom	118.77363504121
dec_nom	21.999856084985
roll_nom	81.82590751887
revision	2
ontime	62387.5
livetime	61379.887762491
ontime4	62387.5
ontime5	62387.5
ontime6	62384.95901975
ontime7	62387.5
ontime8	62387.5
ontime9	62384.958999842
l2events	495703



2 OBI

2.1 OBI

2.1.1 Images

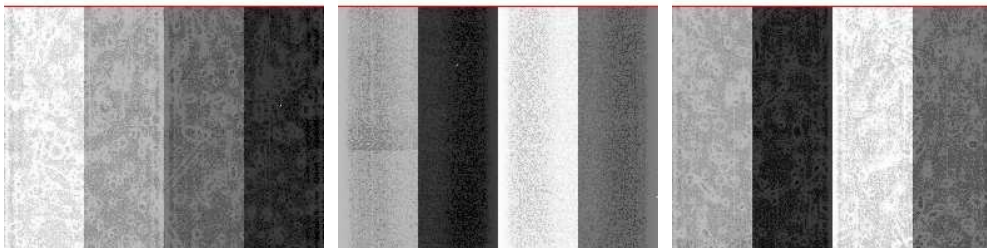


2.1.2 Bias

Chip 4

Chip 5

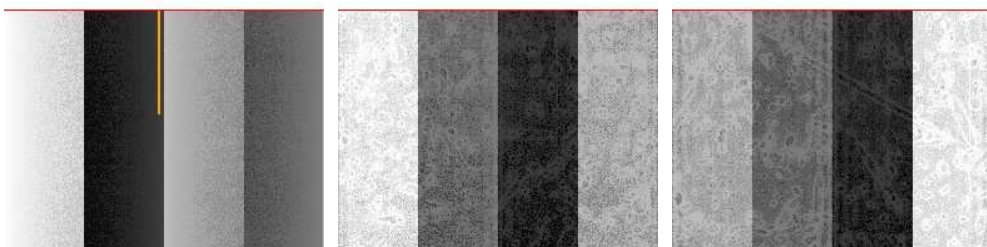
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-16T06:52:10
revision	2

sched_exp_time	62225.000000
ontime	62392.100716949
ontime4	62392.100697041
ontime5	62392.100716949
ontime6	62389.559716791
ontime7	62392.100716949
ontime8	62392.100716949
ontime9	62389.559696883
l1events	2152587

2.1.4 Events

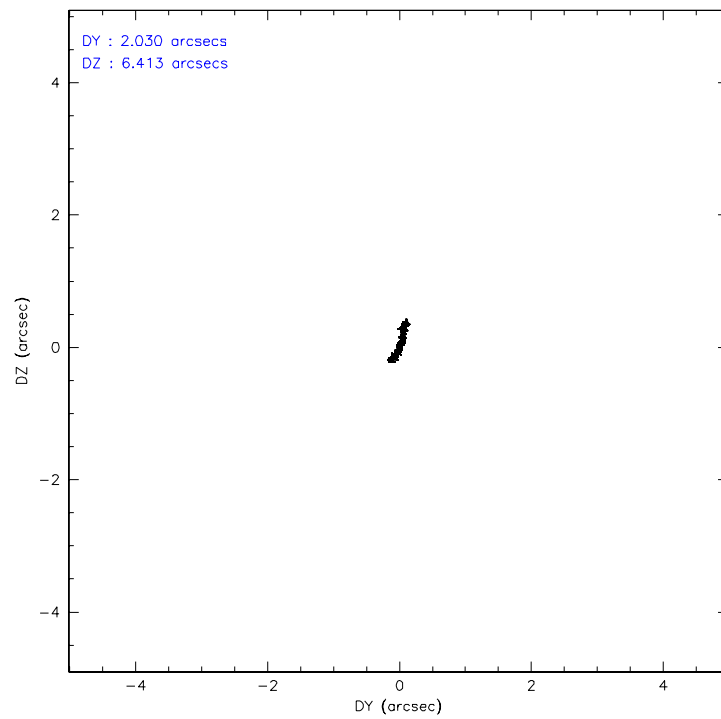
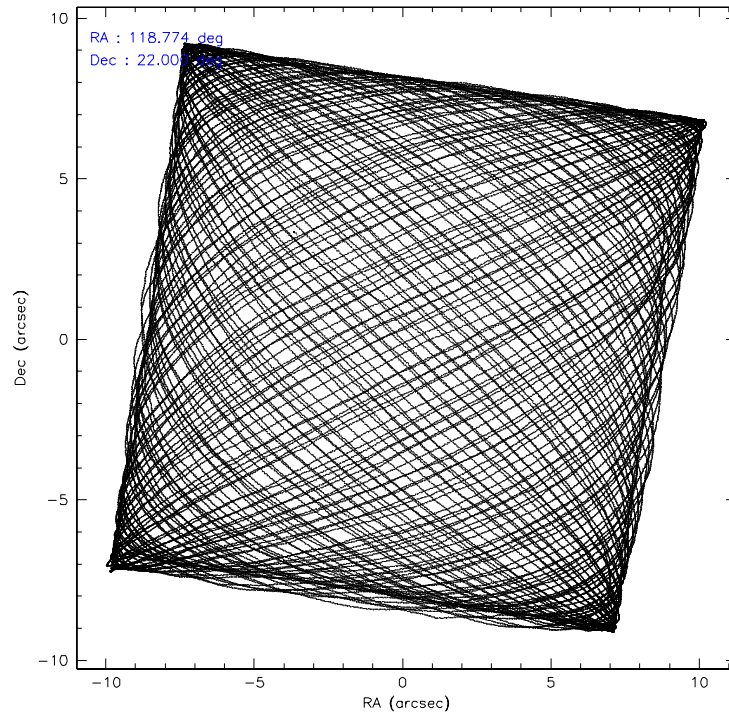
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	312778	460540	308746	417202	369697	283624
rejected events	274847	234222	257243	236300	287998	246144
rejected %	87%	50%	83%	56%	77%	86%

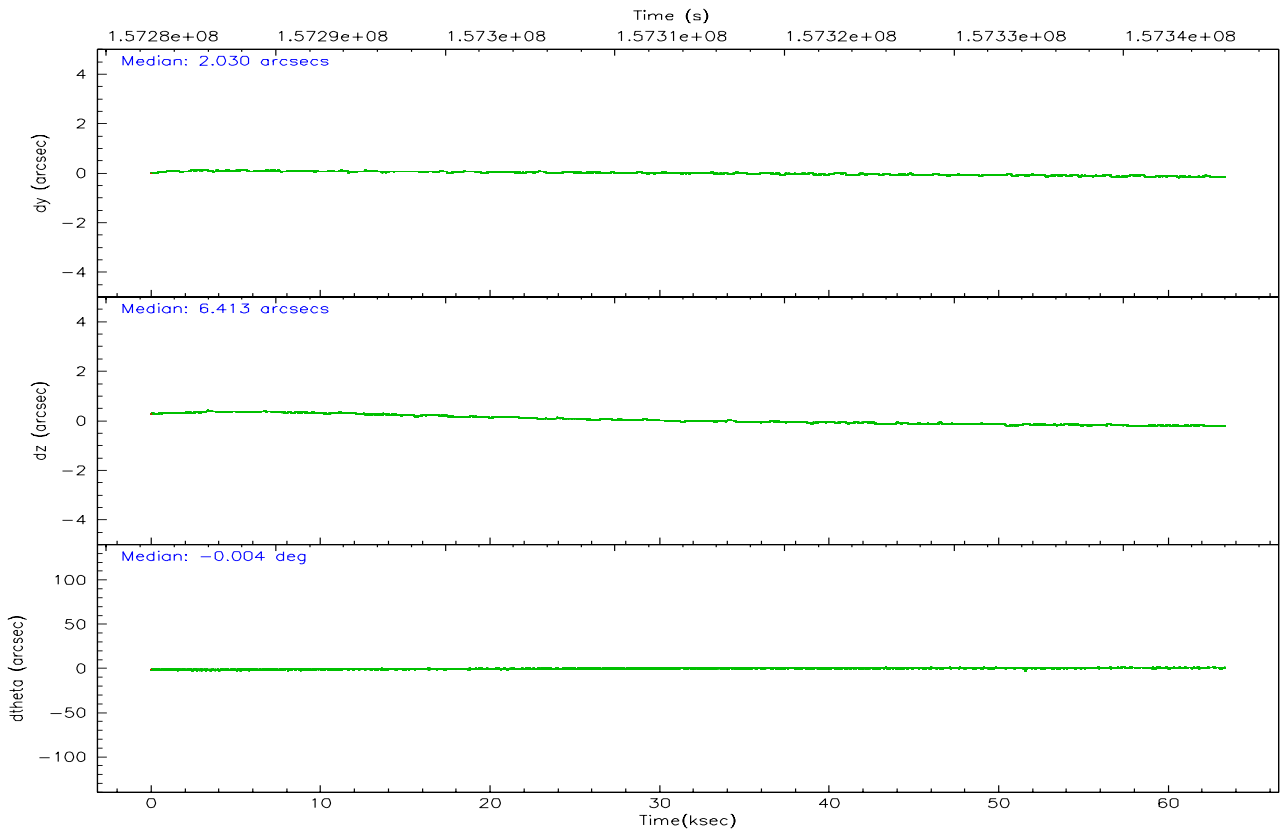
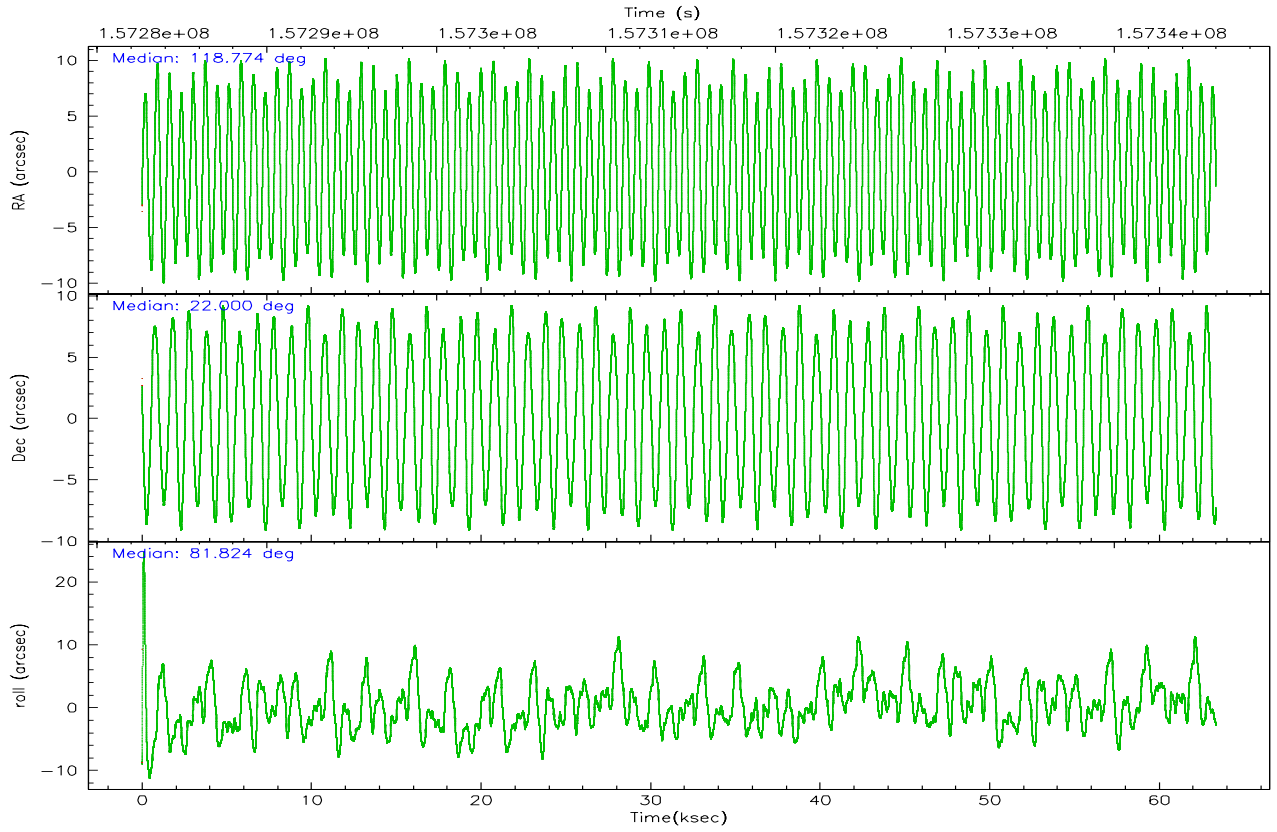
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	17678	48136	26820	16123	28550	16997
	5%	10%	8%	3%	7%	5%
grade 1 events	262	795	167	711	241	149
	0%	0%	0%	0%	0%	0%
grade 2 events	7211	62741	8681	43184	16438	6515
	2%	13%	2%	10%	4%	2%
grade 3 events	3825	6018	4235	11859	8505	3795
	1%	1%	1%	2%	2%	1%
grade 4 events	3662	5843	4214	11349	7968	3651
	1%	1%	1%	2%	2%	1%
grade 5 events	11473	22774	12508	29046	16099	13144
	3%	4%	4%	6%	4%	4%
grade 6 events	5555	103586	7554	98392	20239	6523
	1%	22%	2%	23%	5%	2%
grade 7 events	263112	210647	244567	206538	271657	232850
	84%	45%	79%	49%	73%	82%

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	118.784925	118.7736350412142	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	21.974740	21.99985608498495	Subarray start row	1	1
Pointing Roll	81.665057	81.82590751887025	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	157283775.184000	157282119.90955			
Observation start date	2002-12-26T09:55:11	2002-12-26T09:28:39			
Observation end time	157346000.184000	157347217.66227			
Observation end date	2002-12-27T03:12:16	2002-12-27T03:33:37			
Read mode	TIMED	TIMED			

2.3 Aspect



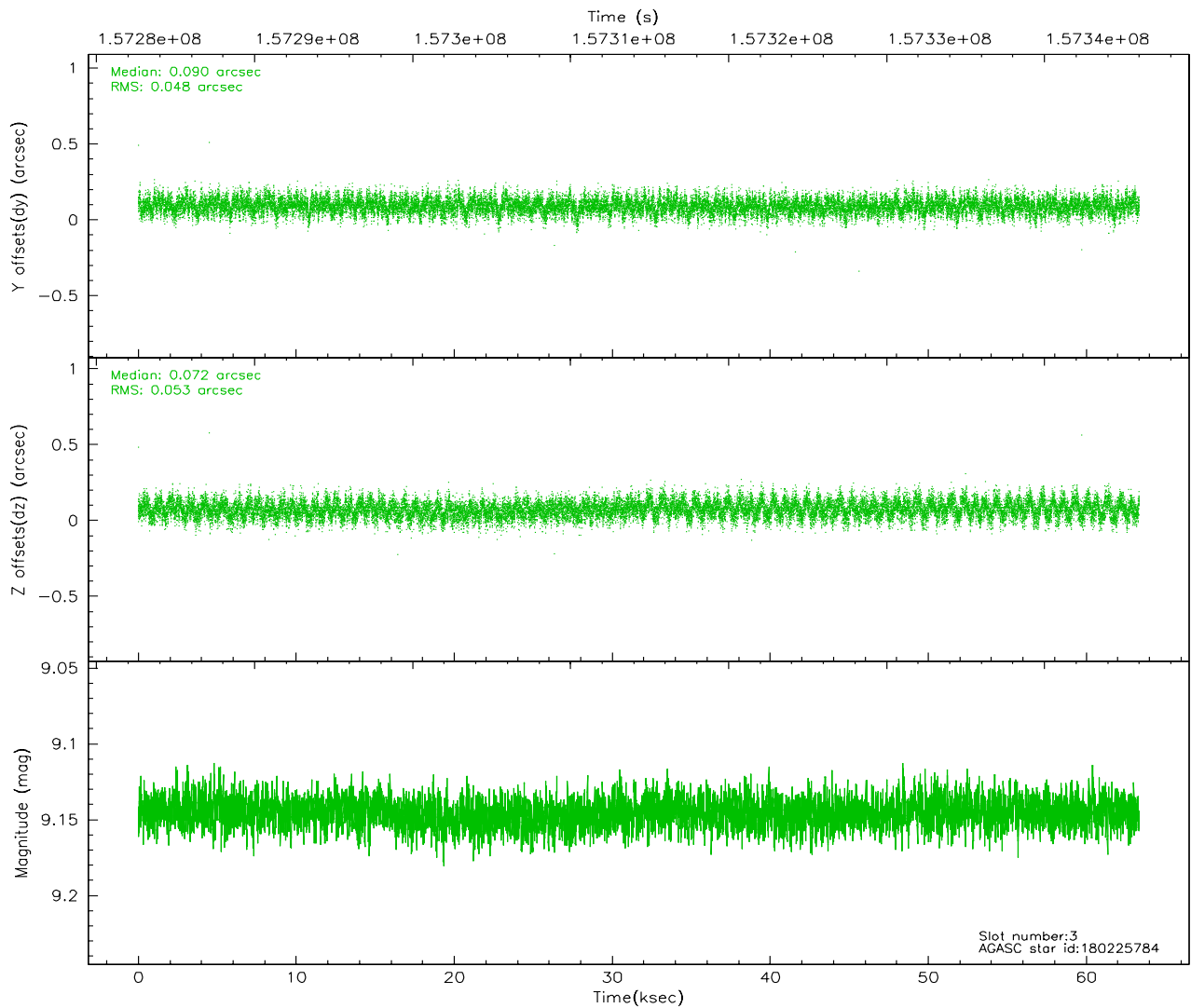
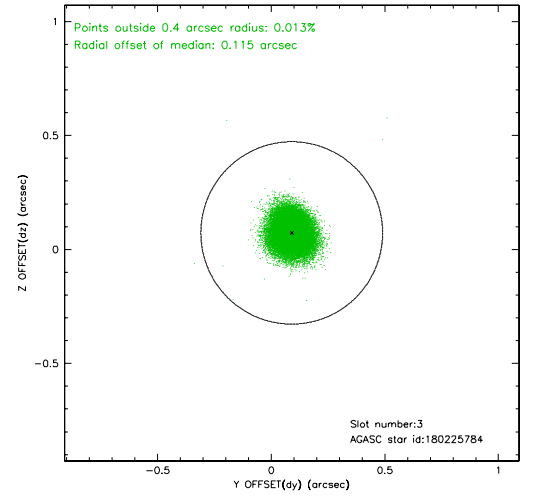
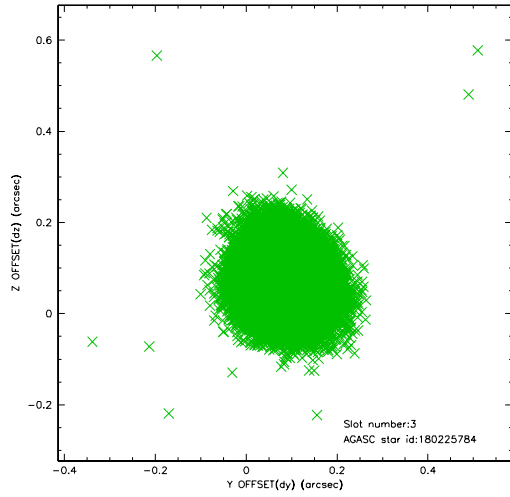


Slot Statistics

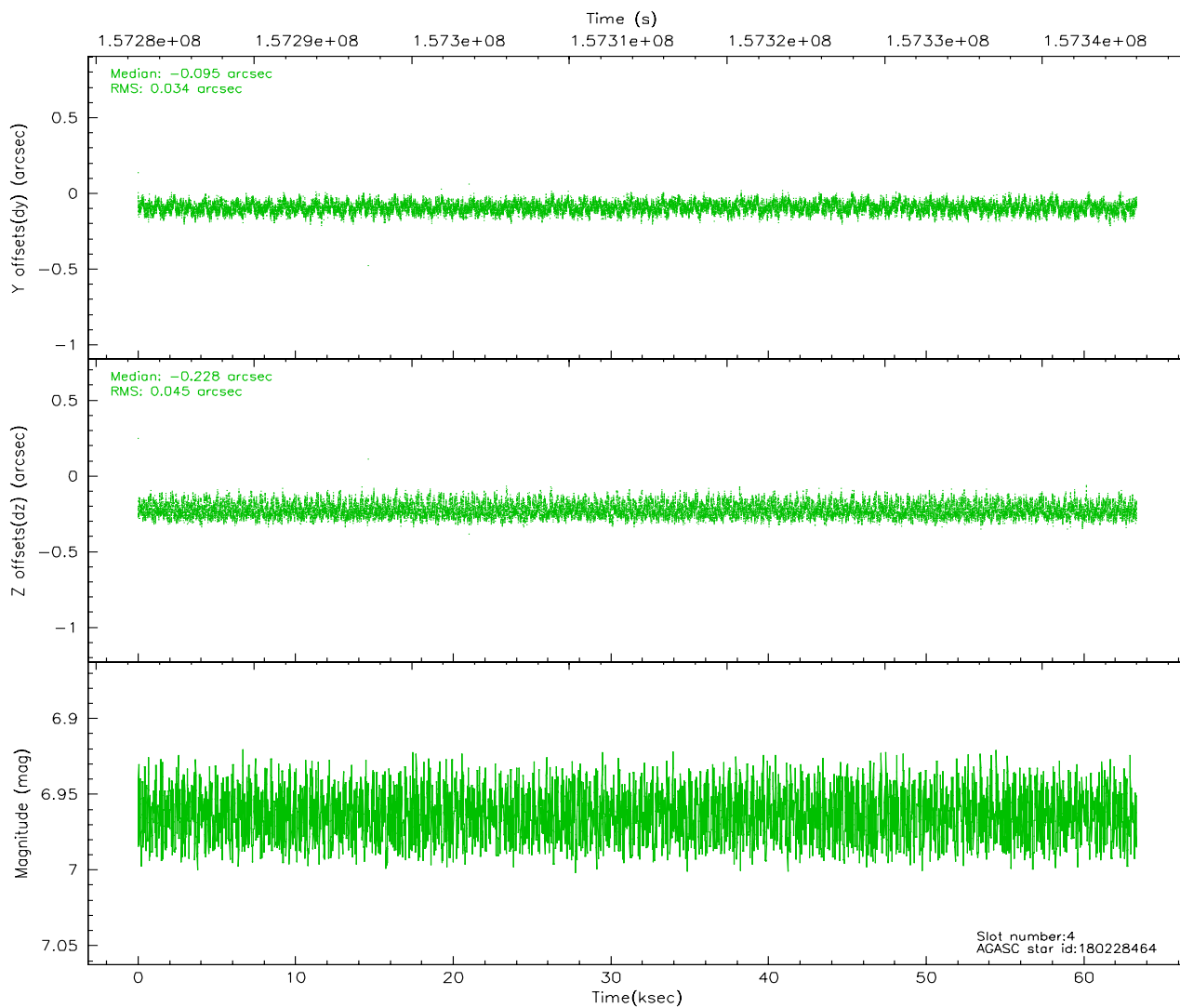
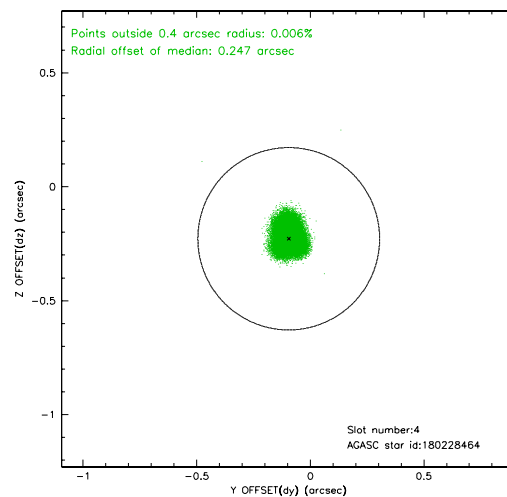
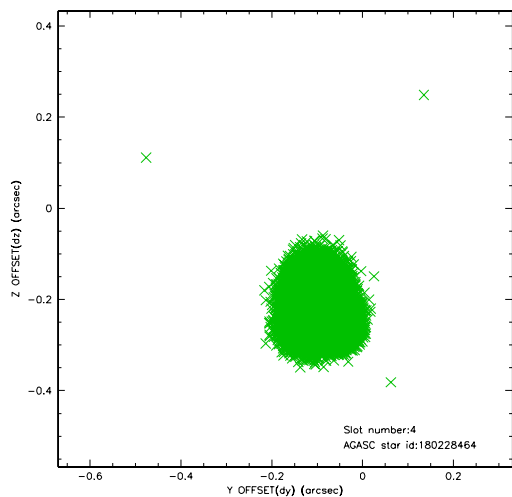
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	15453	-0.037	-0.052	0.008	0.013	0.000000	0.000000	-754.46	-1789.80
1	FID	ACIS-S-4	7.20	15453	-0.014	0.032	0.006	0.010	0.000000	0.000000	2158.85	118.82
2	FID	ACIS-S-5	7.23	15454	0.020	0.029	0.008	0.013	0.000000	0.000000	-1807.31	112.42
3	GUIDE	180225784	9.15	30894	0.090	0.072	0.077	0.123	119.097851	21.836390	-339.87	-1106.54
4	GUIDE	180228464	6.96	30903	-0.095	-0.228	0.061	0.096	118.254204	22.334528	1028.48	1936.74
5	GUIDE	252317448	7.49	30903	-0.177	0.101	0.061	0.095	119.081958	22.571691	2270.10	-665.01
6	GUIDE	180228192	9.34	30887	0.041	-0.049	0.105	0.166	118.222338	22.282125	826.94	2015.30
7	GUIDE	180231064	9.88	30559	0.137	0.106	0.120	0.201	119.121264	21.347102	-2070.52	-1443.02

2.4 Star Slots

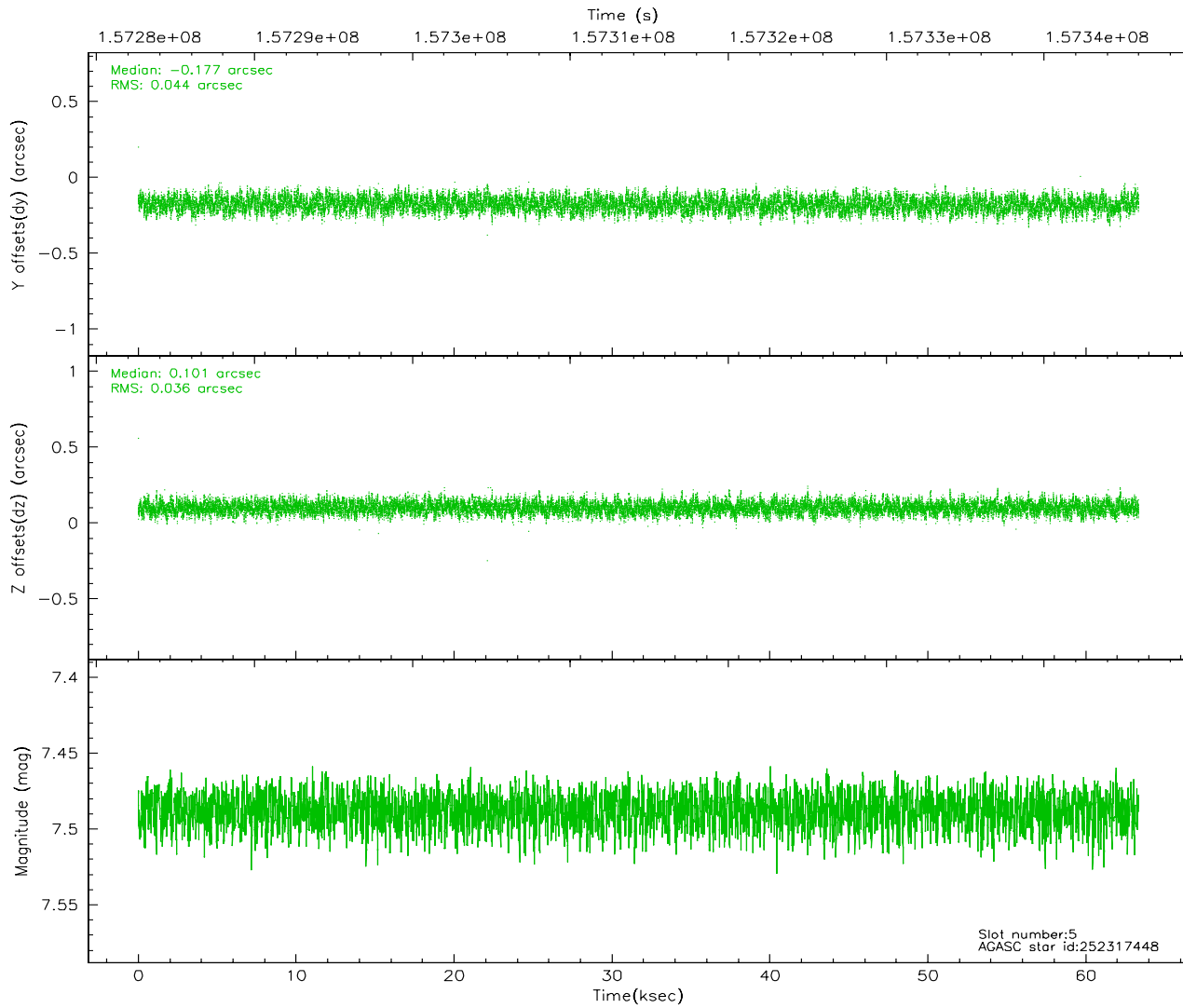
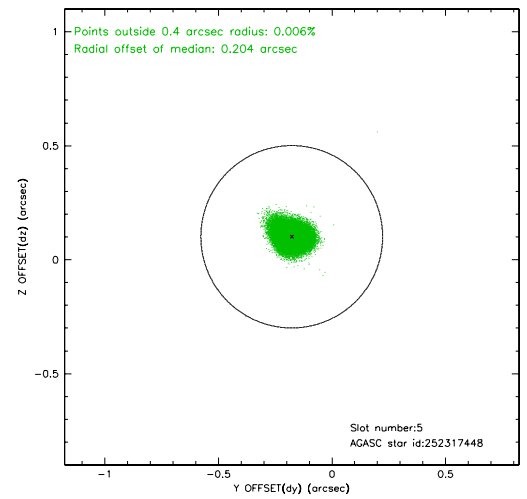
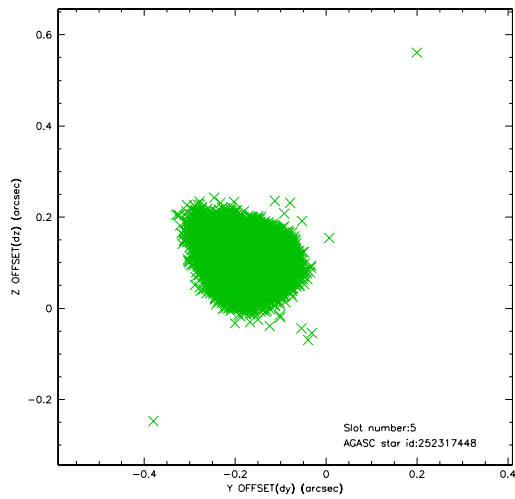
2.4.1 Slot 3



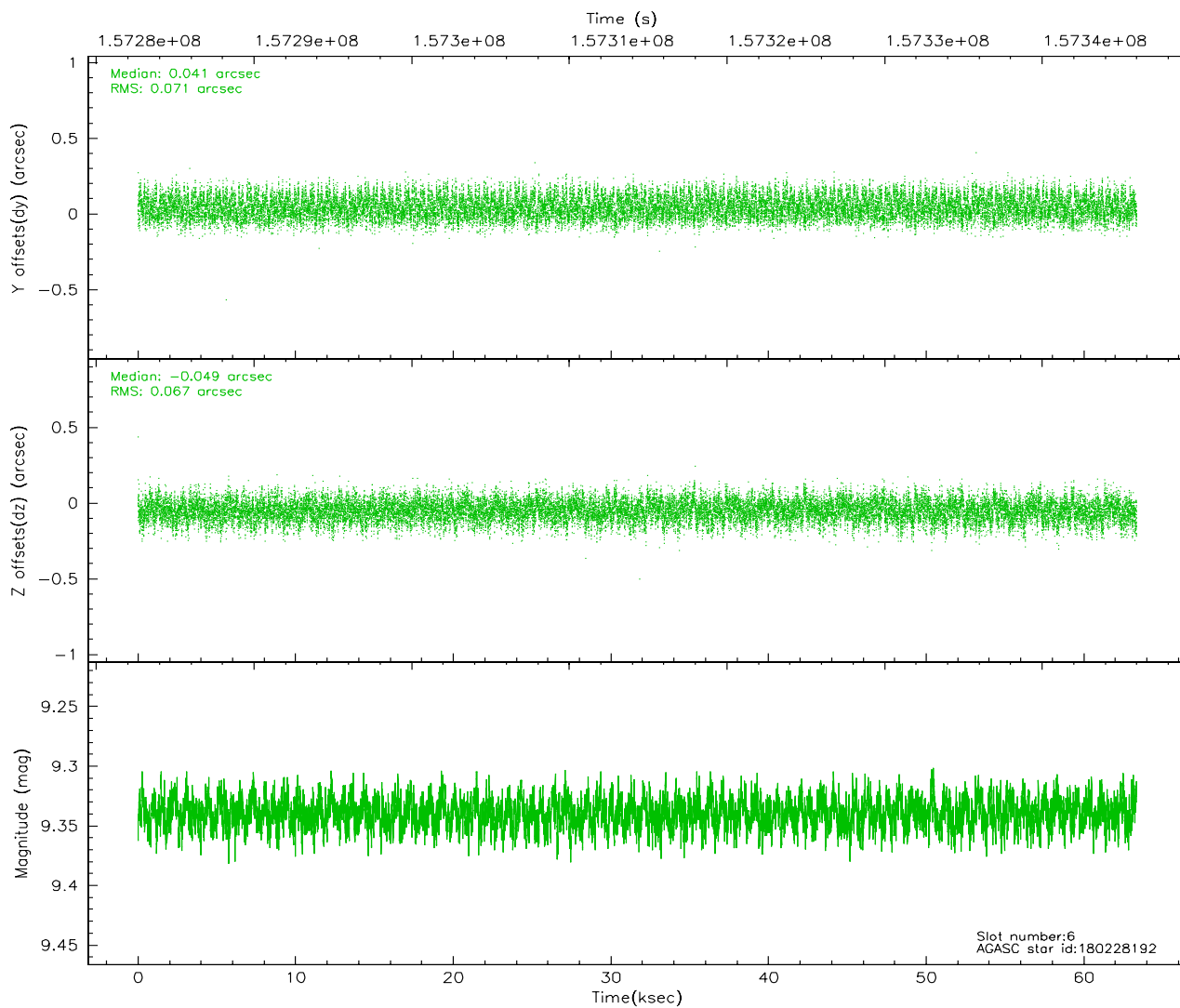
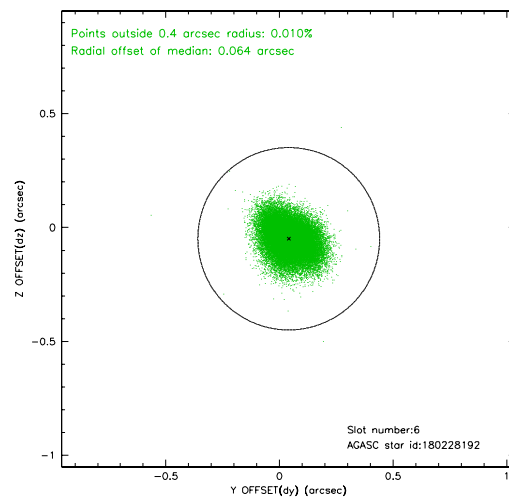
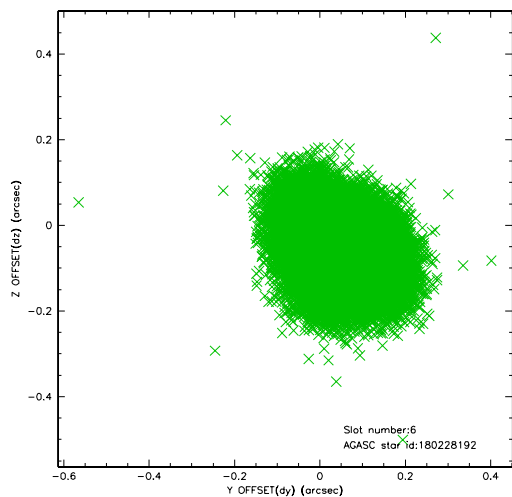
2.4.2 Slot 4



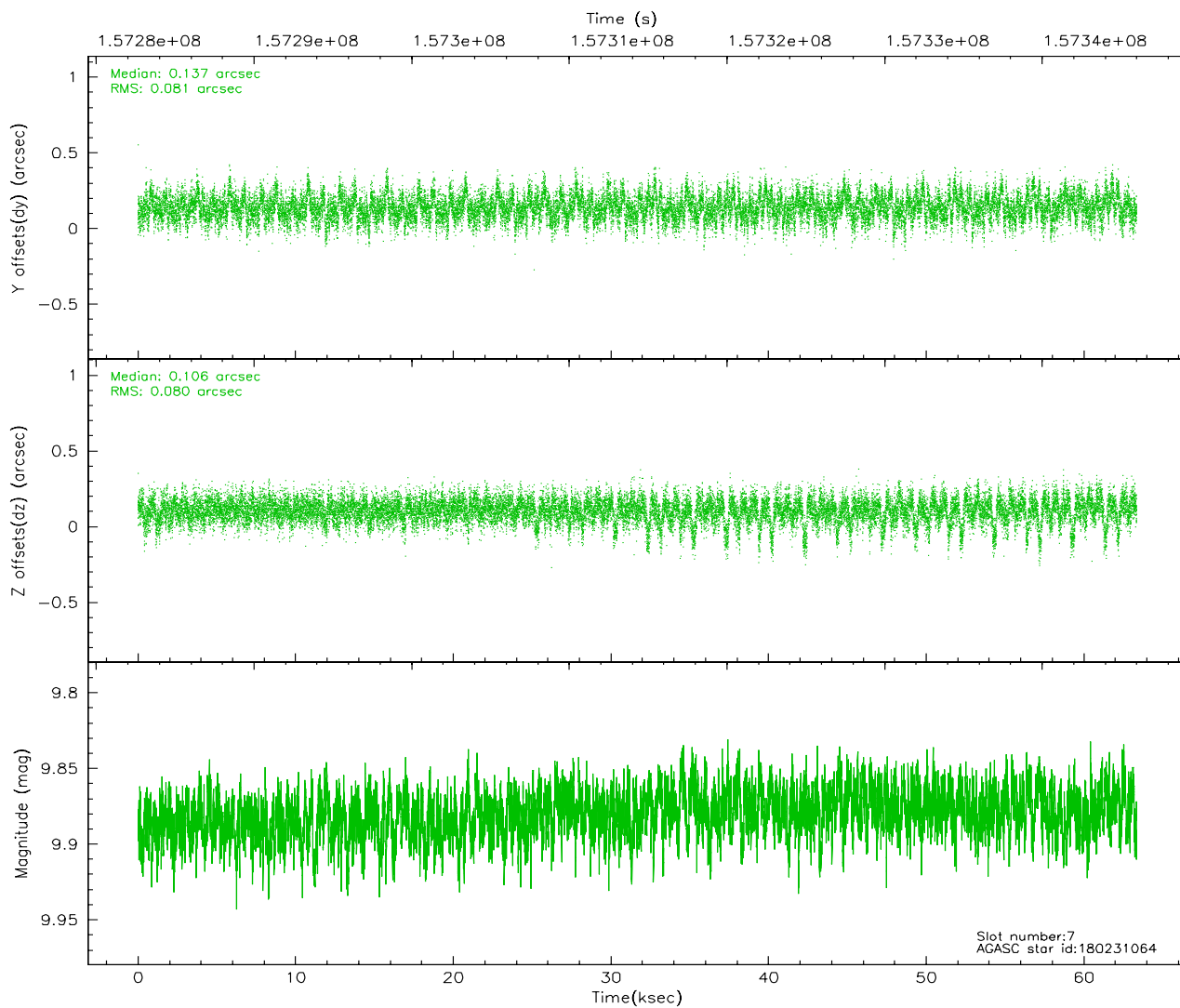
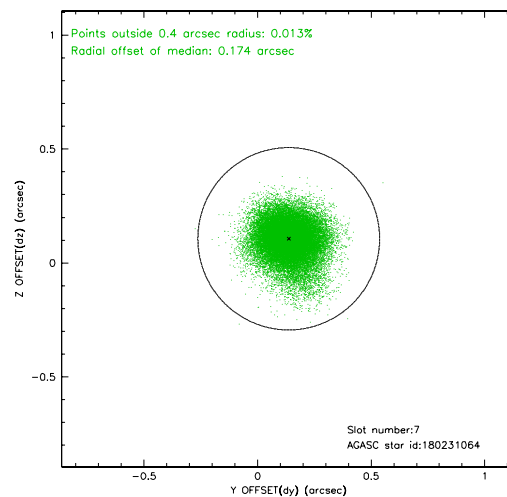
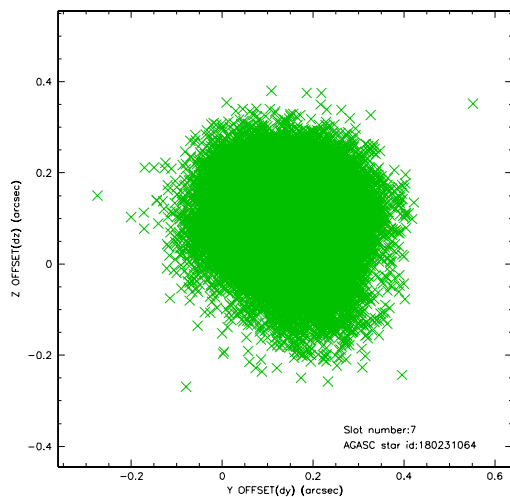
2.4.3 Slot 5



2.4.4 Slot 6

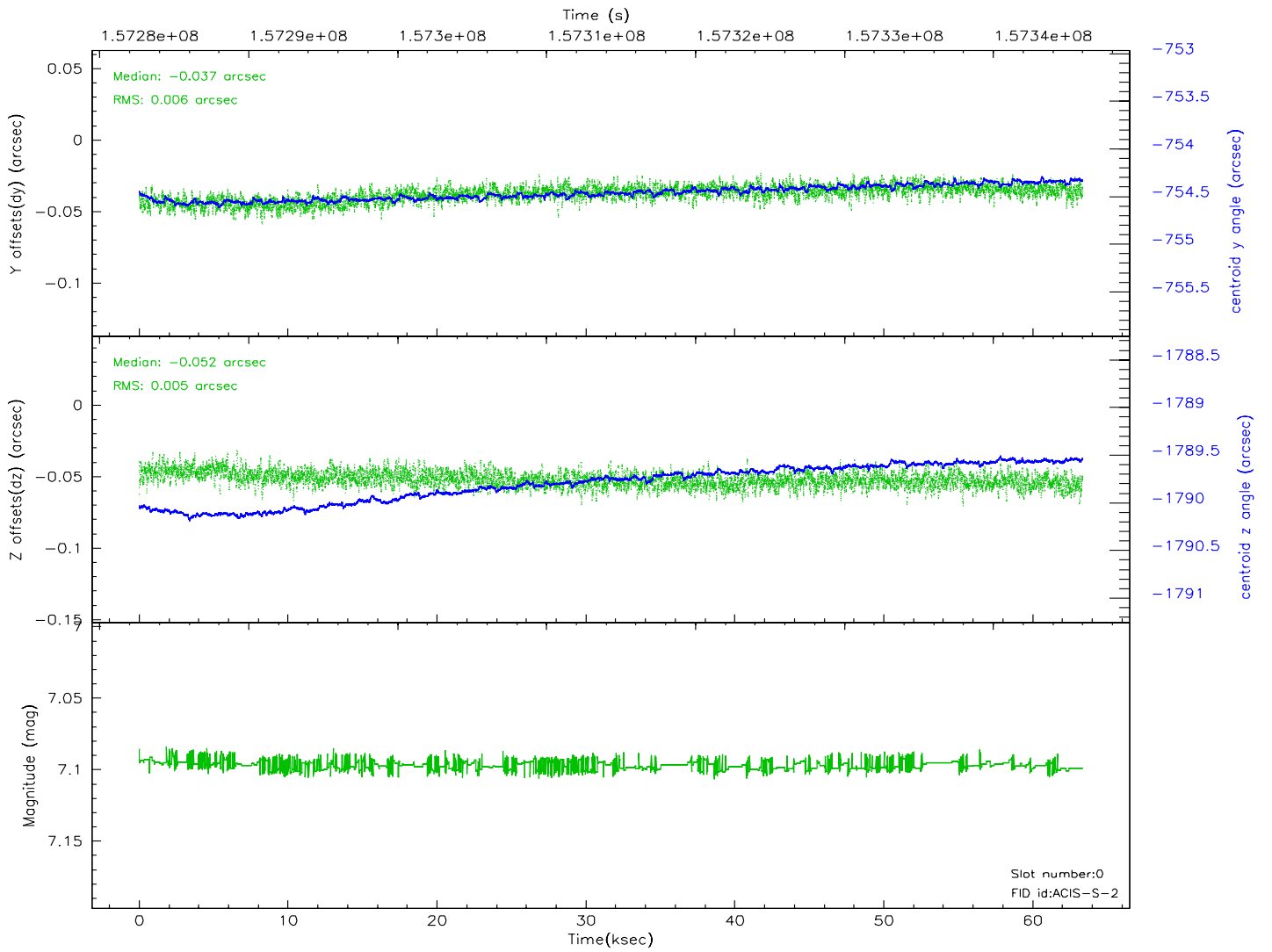
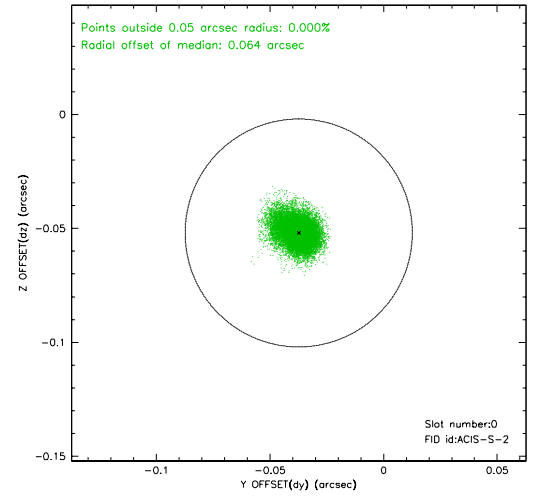
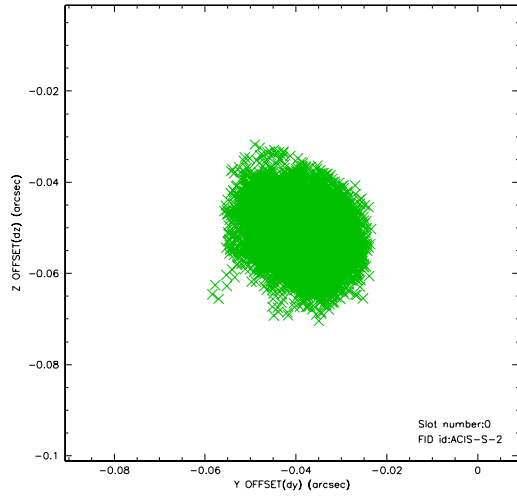


2.4.5 Slot 7

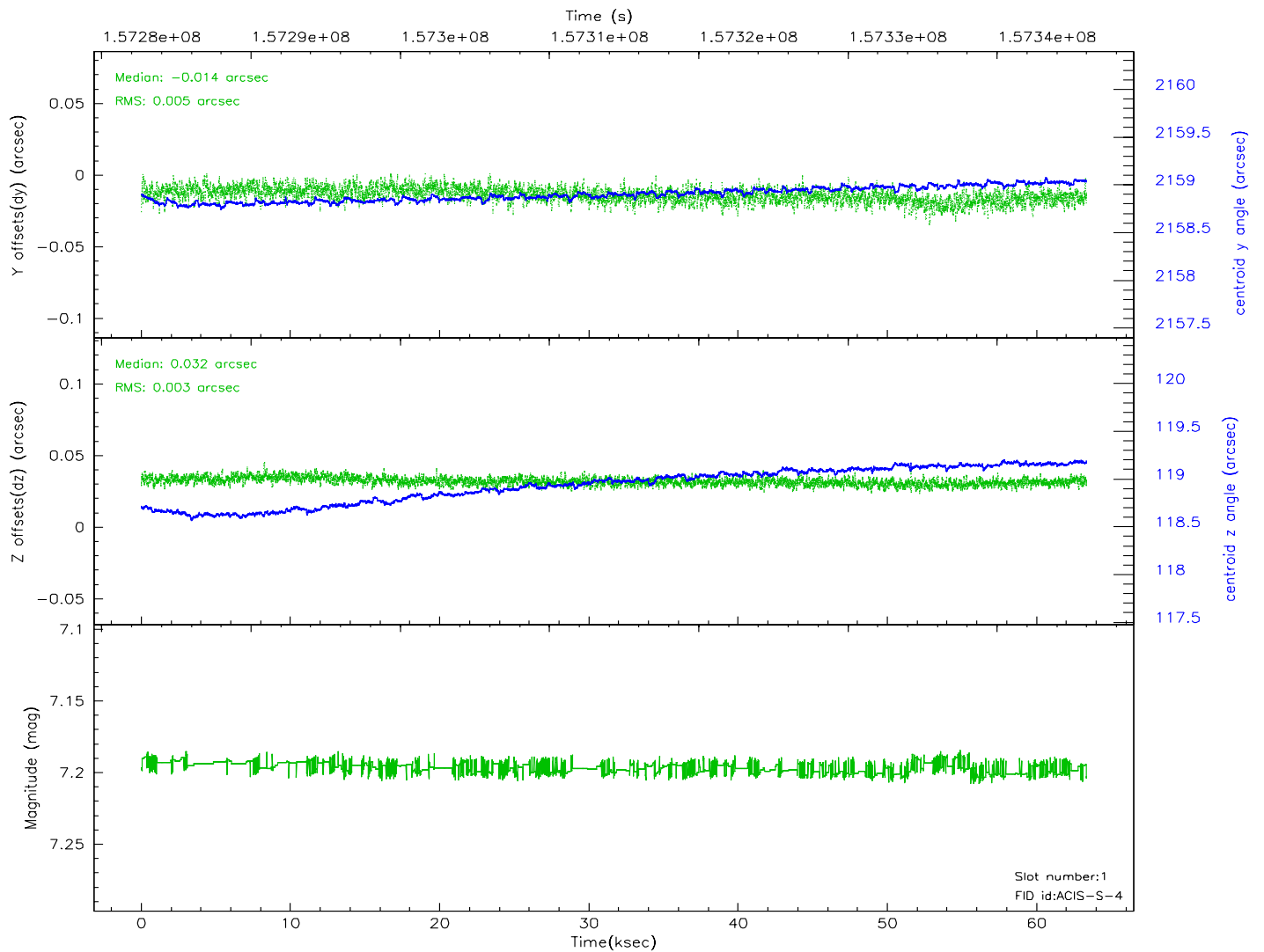
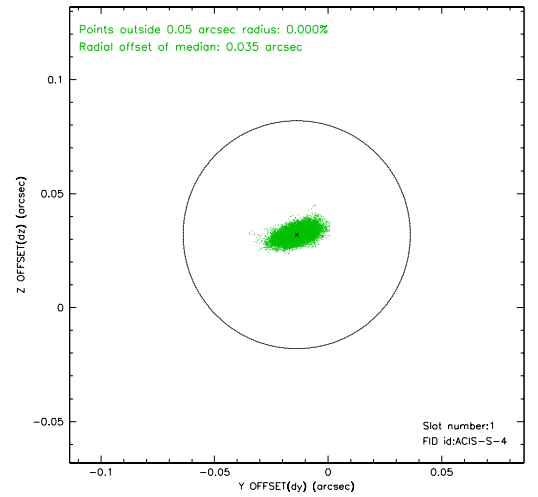
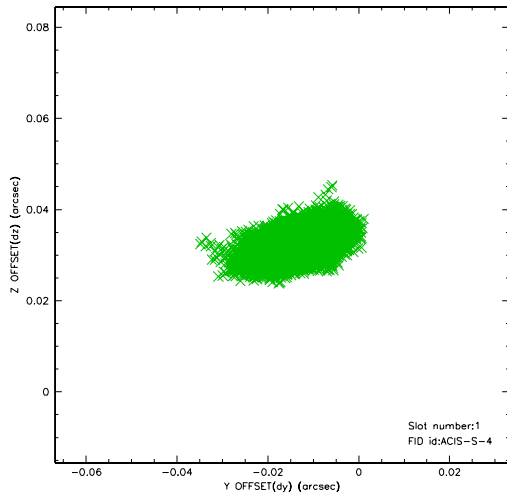


2.5 FID Slots

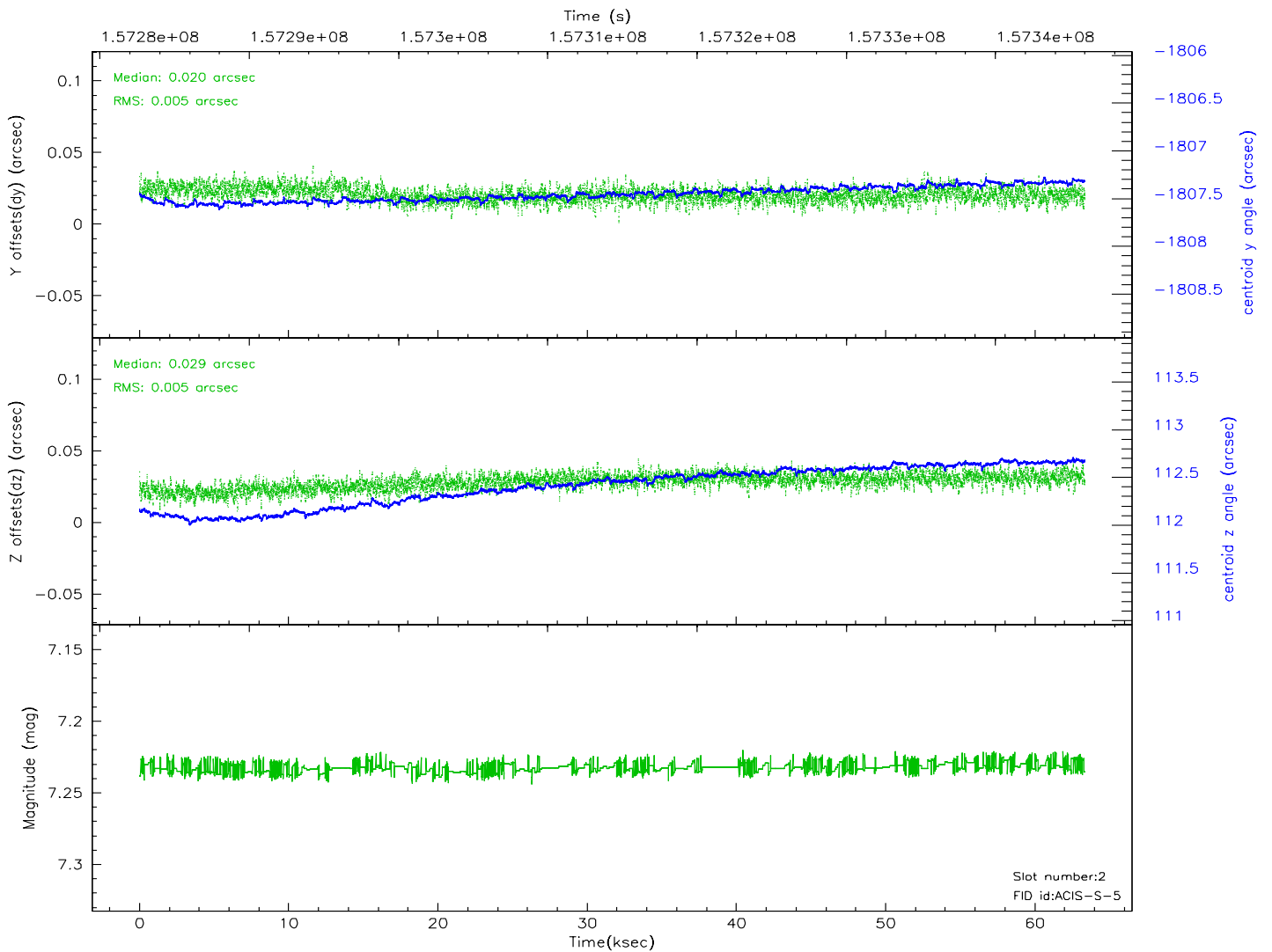
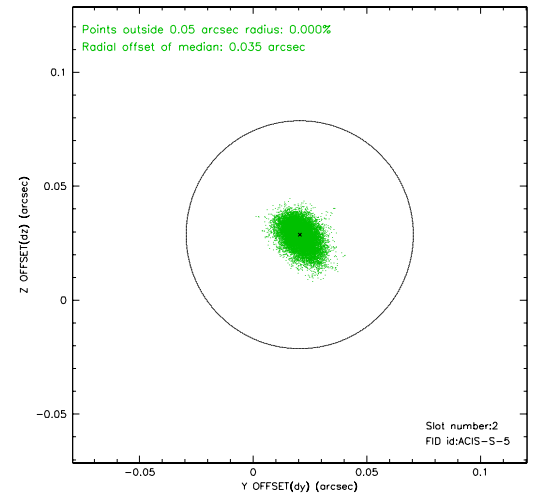
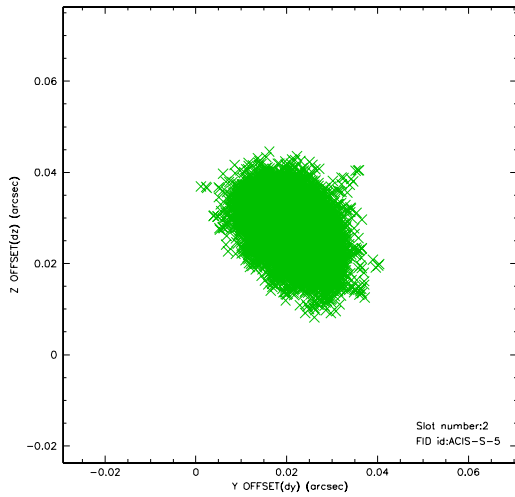
2.5.1 Slot 0



2.5.2 Slot 1

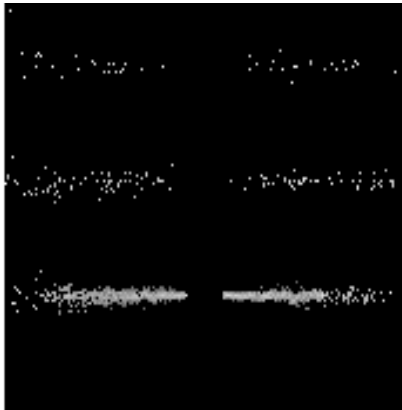


2.5.3 Slot 2

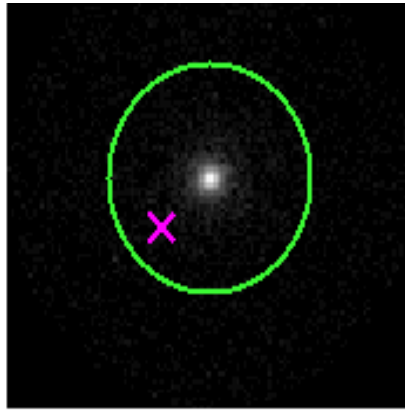


3 Gratings

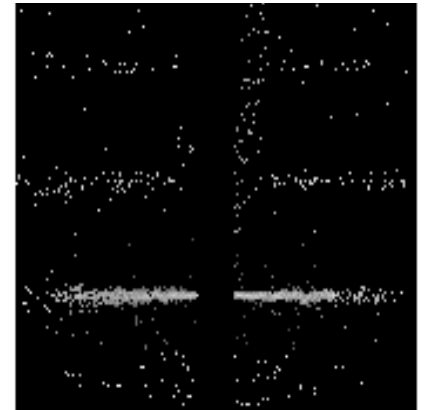
3.1 HEG Arm



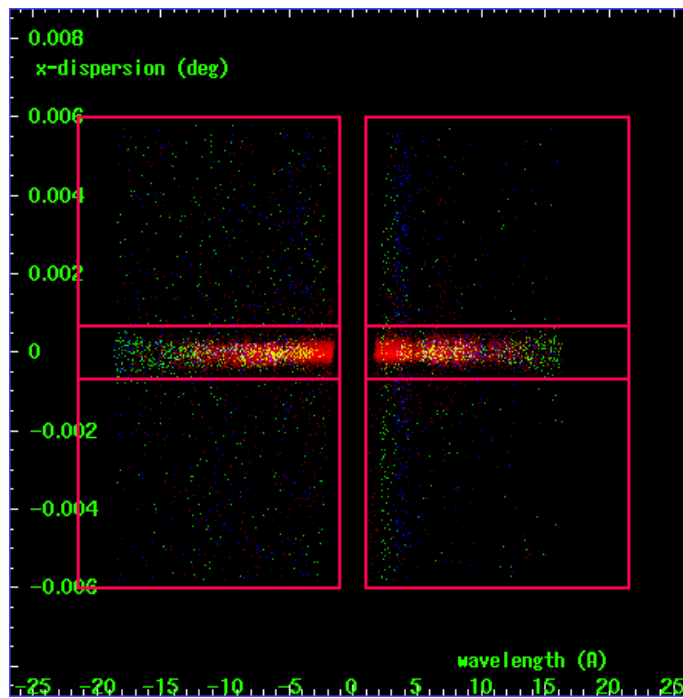
HEG Order Sort 123



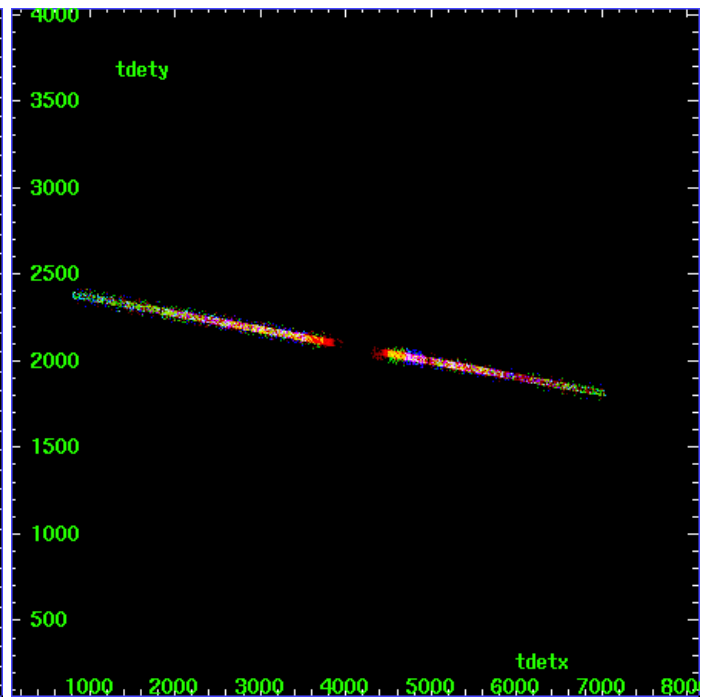
HEG Zero Order



HEG Order Sort ALL

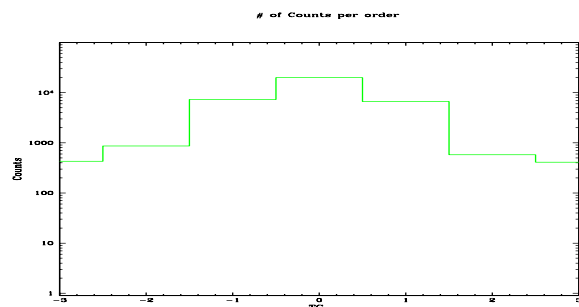


Spot Image HEG

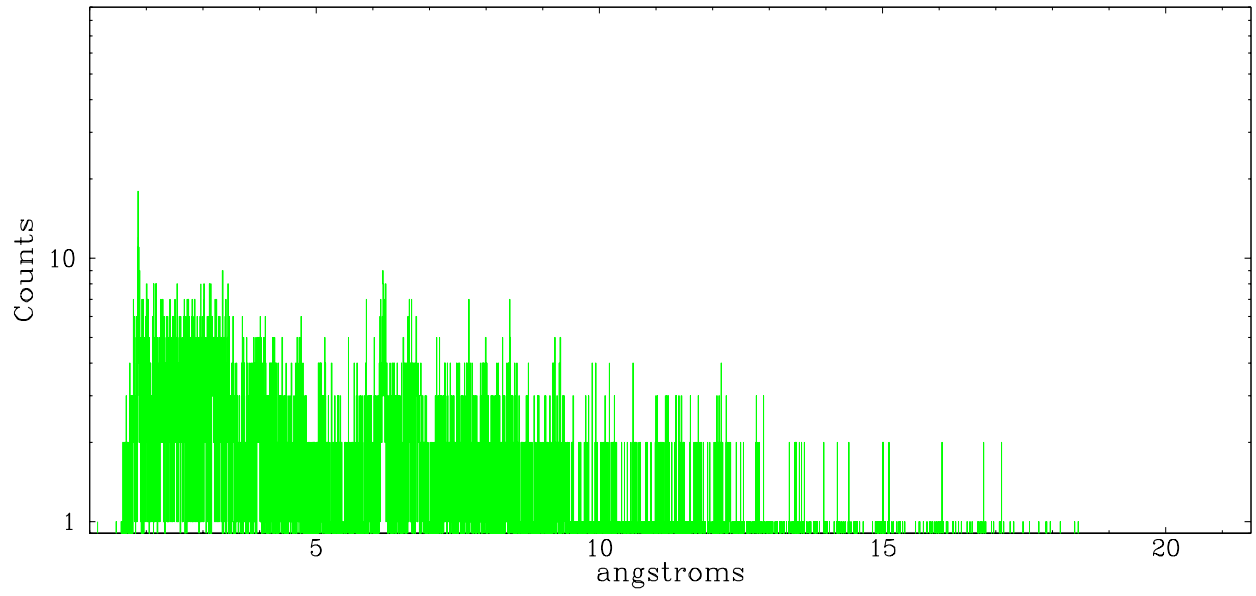


Full Detector HEG

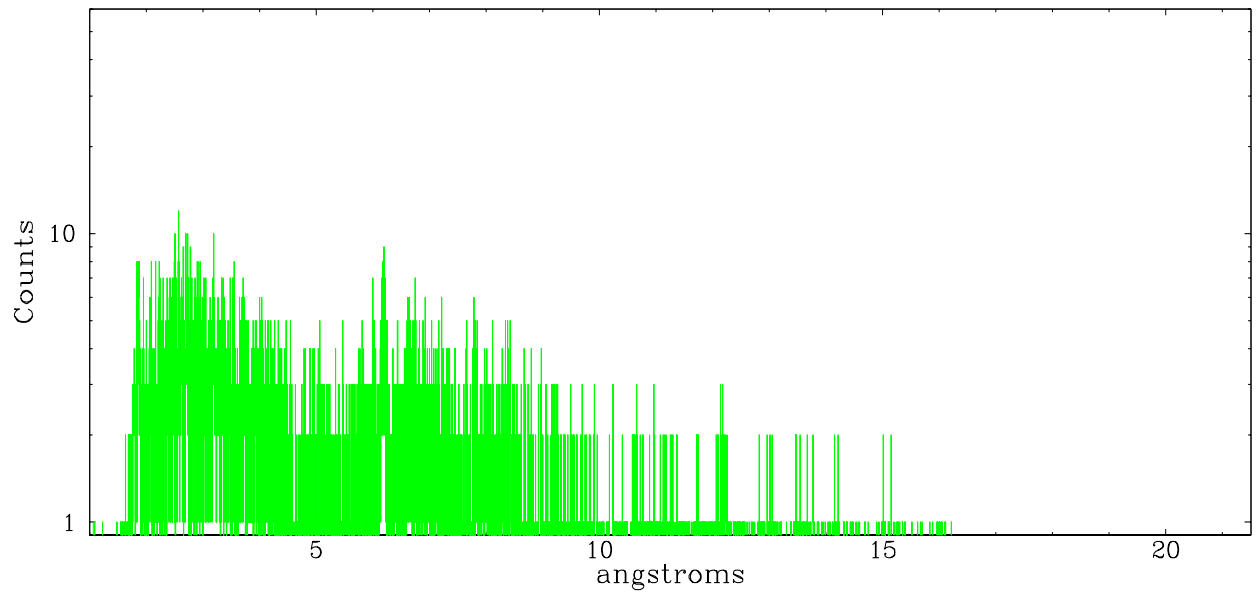
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	428	868	7311	19850	6641	581	409



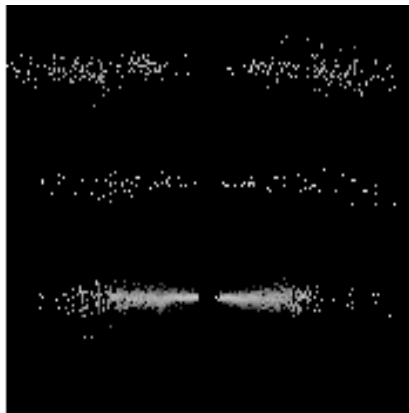
heg order -1



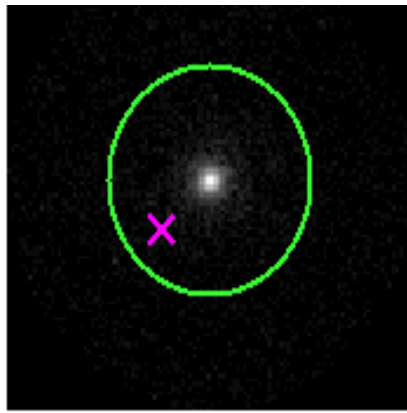
heg order +1



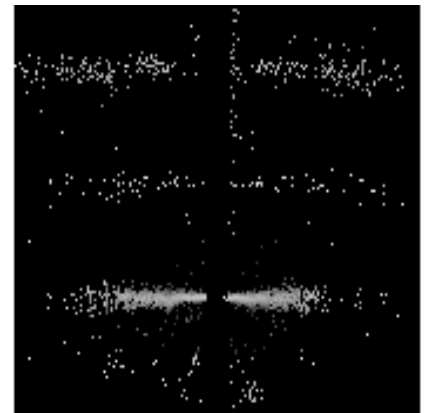
3.2 MEG Arm



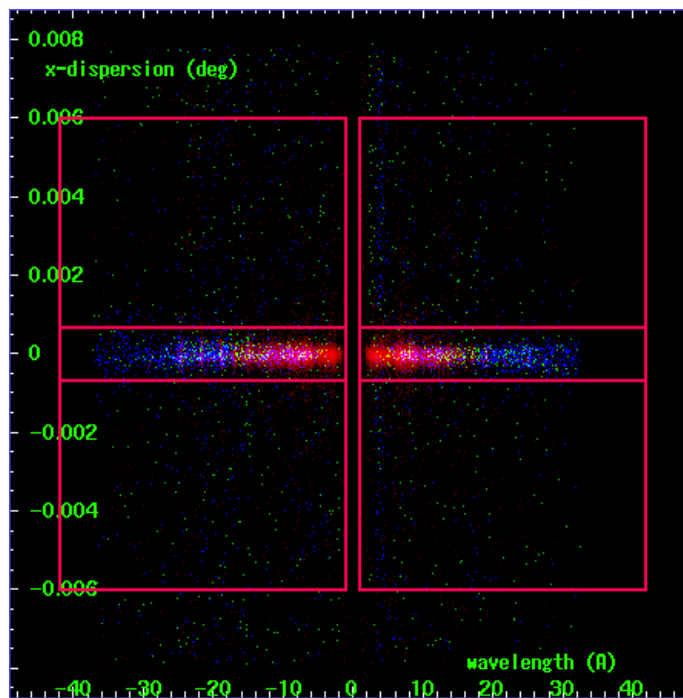
MEG Order Sort 123



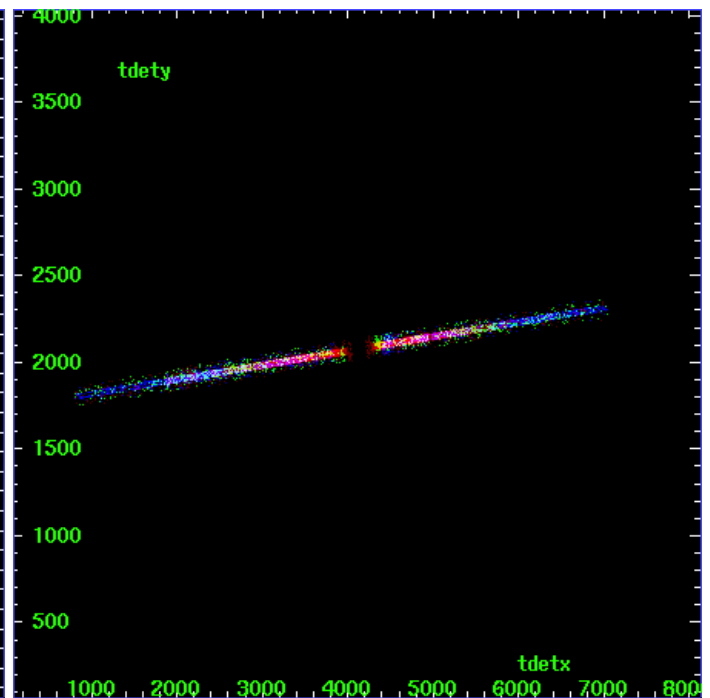
MEG Zero Order



MEG Order Sort ALL

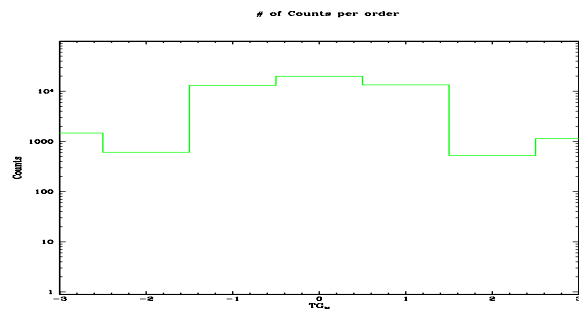


Spot Image MEG

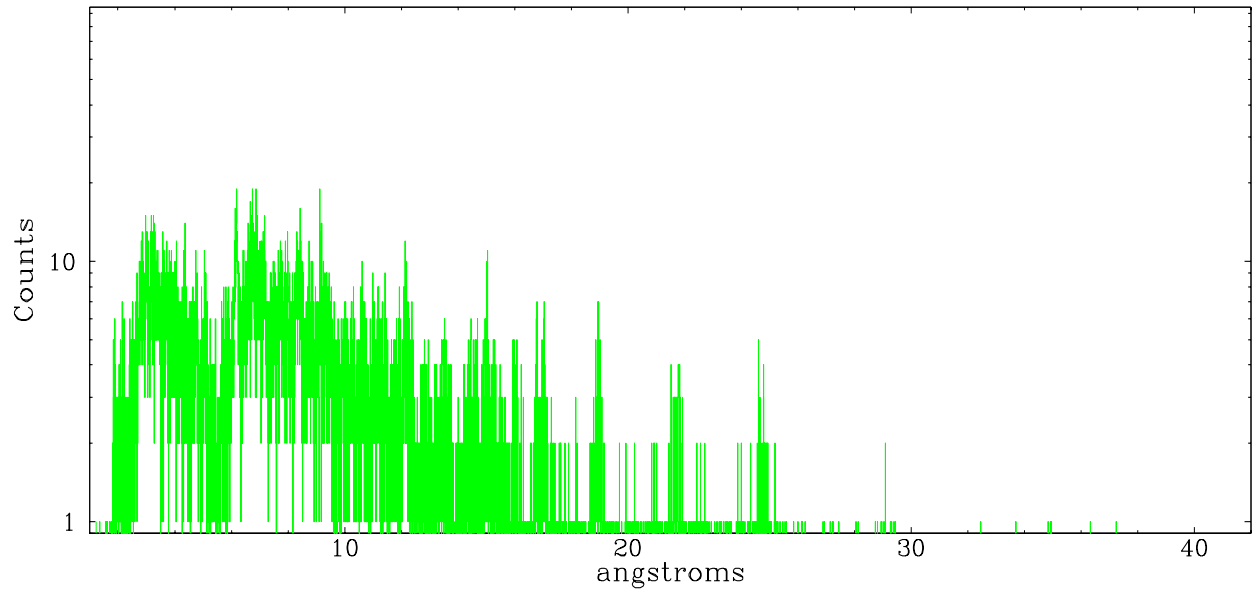


Full Detector MEG

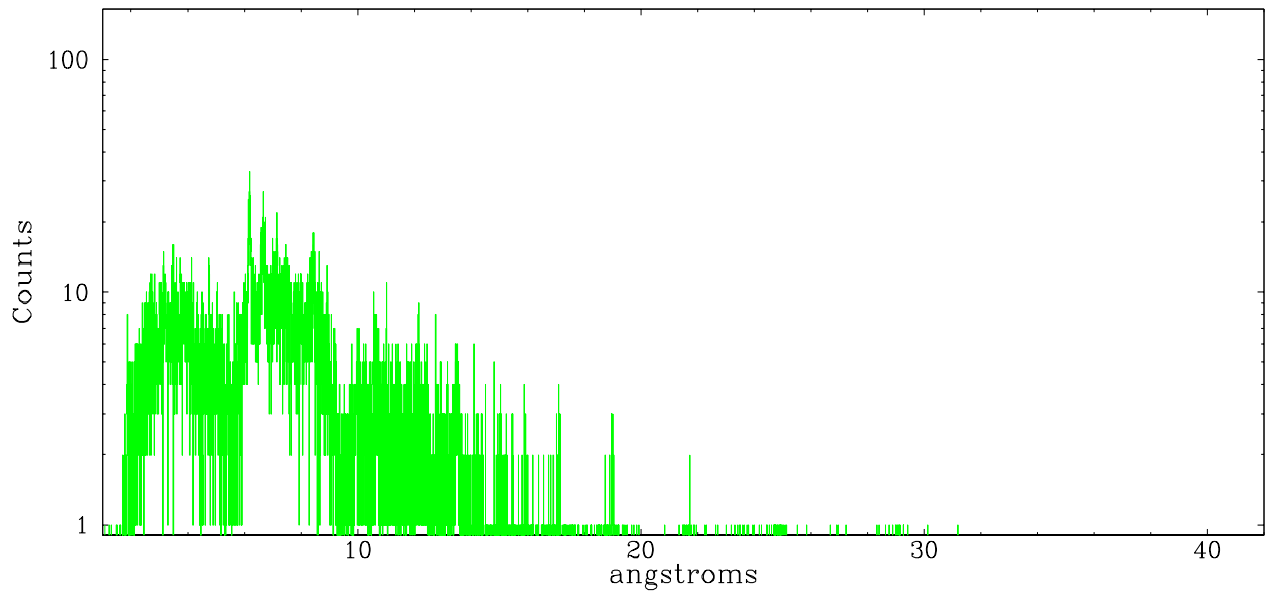
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1470	611	13139	19850	13472	527	1136



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	62.387

A.2 Comments