

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 4573 - L2 Version 001
Chandra X-Ray Center

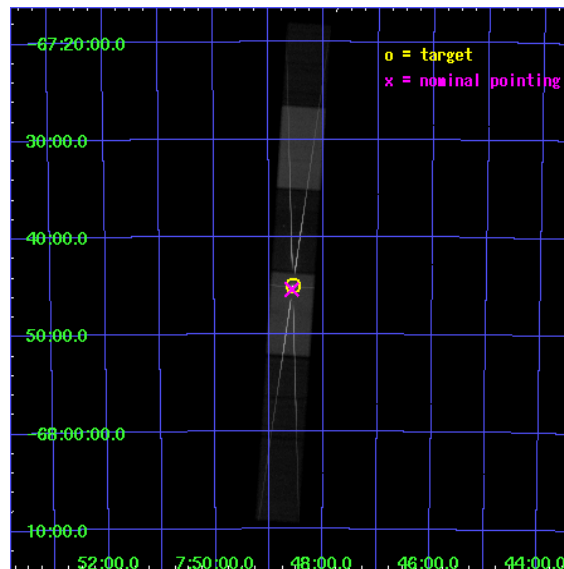
L2 Processing Date : Jul 2 2006

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1 Front

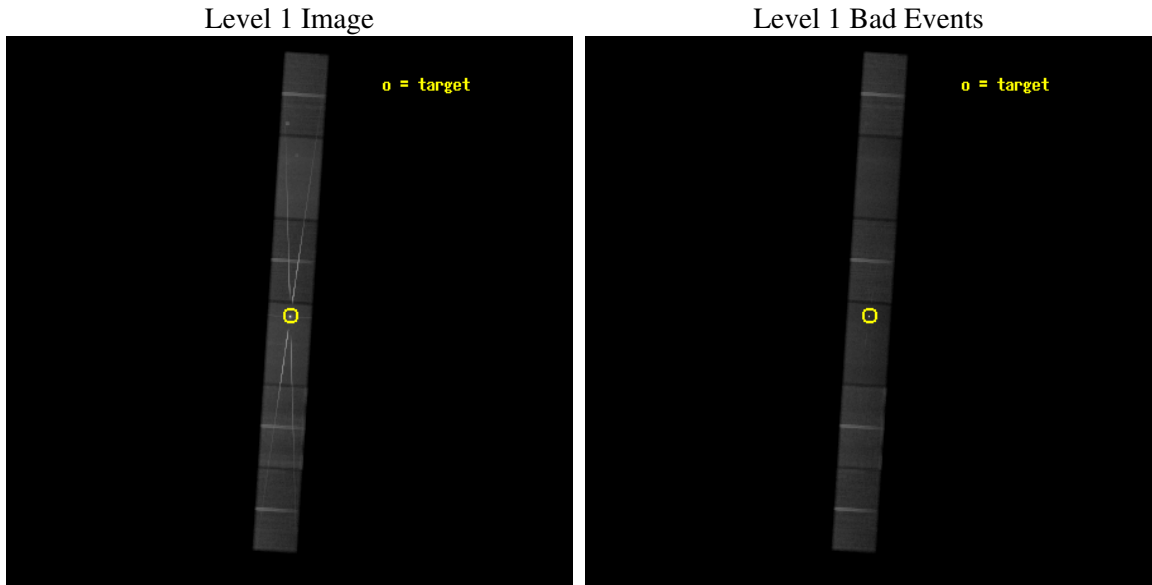
seq_num	400356
obs_id	4573
title	High Resolution Photospheric Spectroscopy of the Neutron Star in EXO0748-676
observer	Prof. FREDERIK PAERELS
object	EXO 0748-676
dtcycle	0
cycle	P
ra_targ	117.13875
dec_targ	-67.75
ra_nom	117.14429391944
dec_nom	-67.756880751364
roll_nom	93.698761313469
revision	2
ontime	166598.96010318
livetime	162885.17804379
ontime4	166597.11902338
ontime5	166598.96006337
ontime6	166598.96010318
ontime7	166598.96010318
ontime8	166595.27807301
ontime9	166595.27813286
l2events	1421441



2 OBI

2.1 OBI

2.1.1 Images

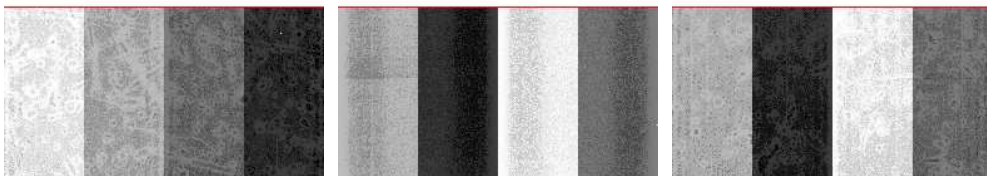


2.1.2 Bias

Chip 4

Chip 5

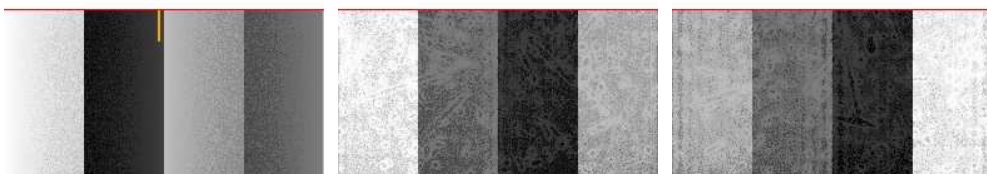
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-02T07:46:07
revision	2

sched_exp_time	166458.530000
ontime	167700.17161134
ontime4	167698.33053154
ontime5	167700.17157152
ontime6	167700.17161134
ontime7	167700.17161134
ontime8	167696.48958117
ontime9	167696.48964101
l1events	4839301

2.1.4 Events

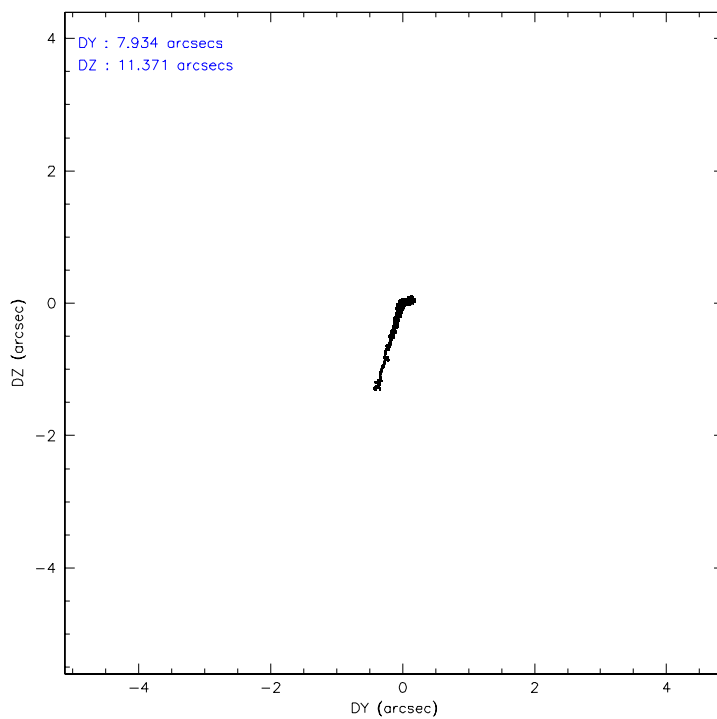
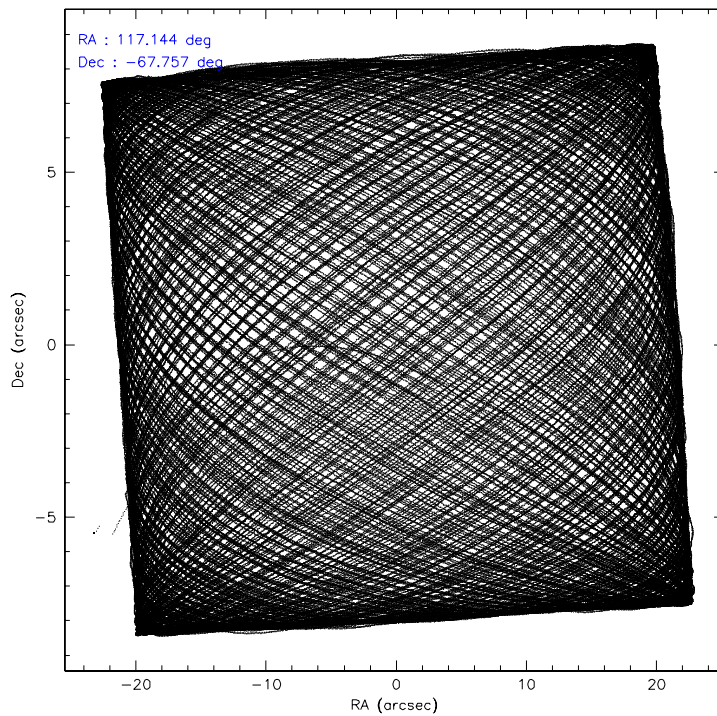
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	681059	879371	791421	1055263	828143	604044
rejected events	590163	478982	544855	506705	614522	517058
rejected %	86%	54%	68%	48%	74%	85%

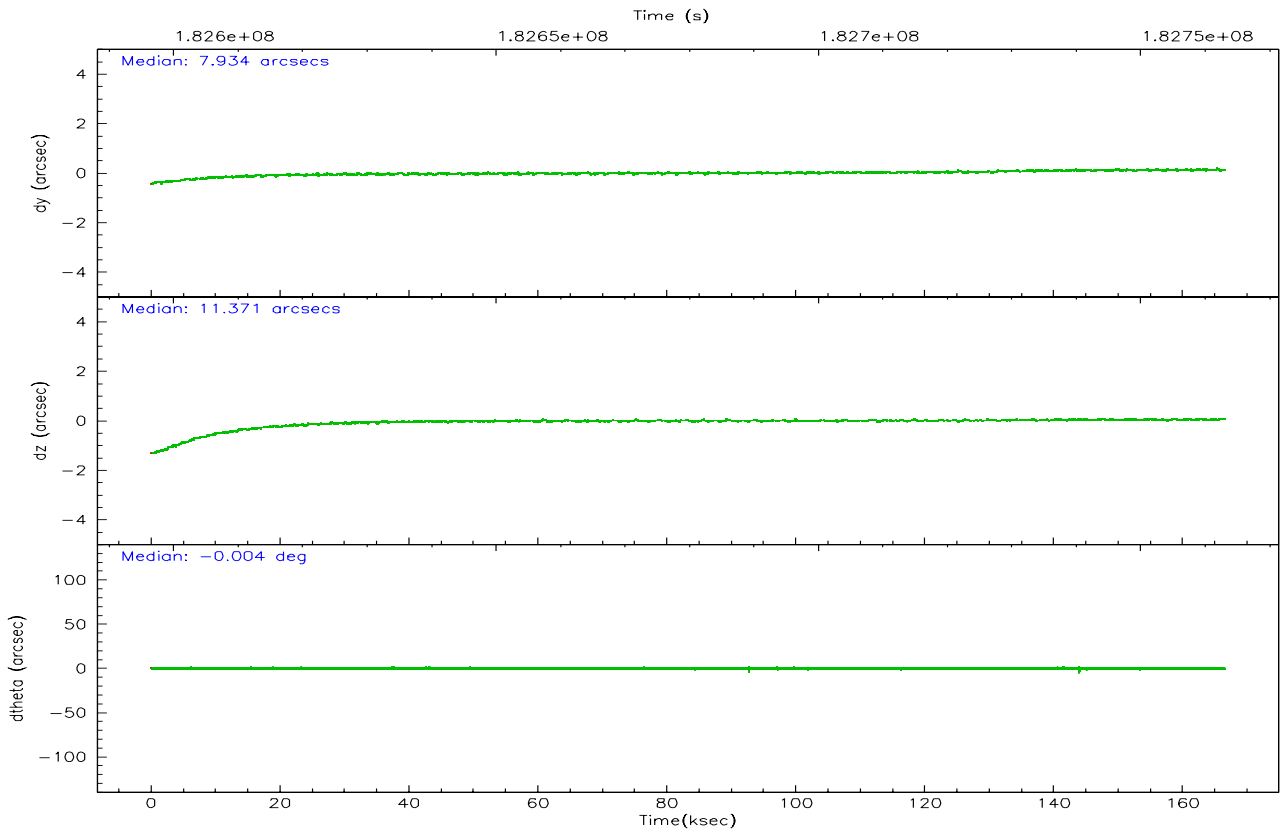
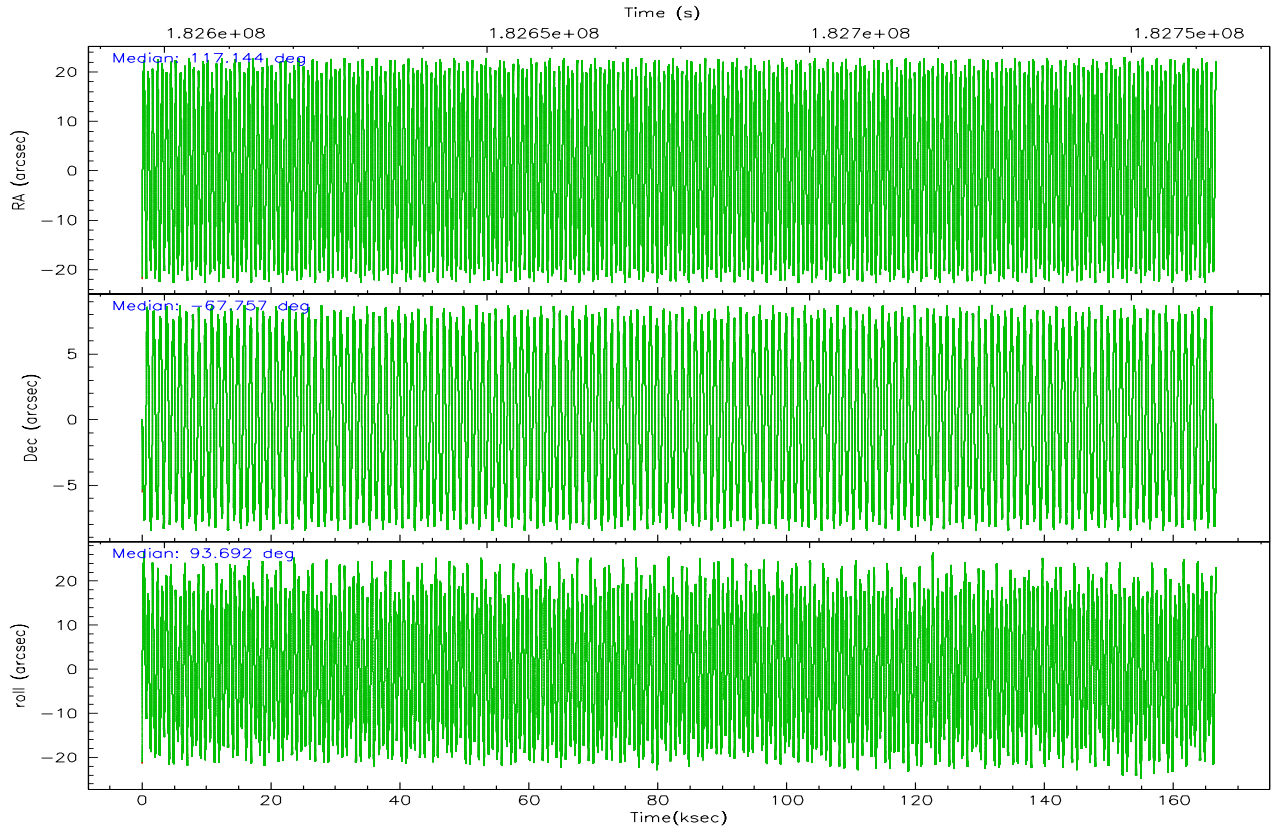
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	43366	29616	153016	62442	89726	39237
	6%	3%	19%	5%	10%	6%
grade 1 events	467	675	702	1908	526	304
	0%	0%	0%	0%	0%	0%
grade 2 events	17282	123607	37002	132950	39890	15729
	2%	14%	4%	12%	4%	2%
grade 3 events	9066	15269	16186	43911	20314	9024
	1%	1%	2%	4%	2%	1%
grade 4 events	8820	14479	15868	42948	19275	8768
	1%	1%	2%	4%	2%	1%
grade 5 events	23765	45811	26118	66886	32687	26472
	3%	5%	3%	6%	3%	4%
grade 6 events	13013	220297	25119	268638	45721	14771
	1%	25%	3%	25%	5%	2%
grade 7 events	565280	429617	517410	435580	580004	489739
	83%	48%	65%	41%	70%	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	CUSTOM	CUSTOM
Pointing RA	117.185045	117.1442939194434	Subarray start row	1	1
Pointing Dec	-67.779313	-67.75688075136368	Subarray row count	542	542
Pointing Roll	93.579861	93.69876131346921	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	1.8
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-184.532523	-184.52811429679			
SIM translation stage offset (mm)	-5.6	-5.604408286217847			
Observation start time	182596630.184000	182595237.57			
Observation start date	2003-10-15T09:16:06	2003-10-15T08:53:57			
Observation end time	182763088.184000	182763403.17723			
Observation end date	2003-10-17T07:30:24	2003-10-17T07:36:43			
Read mode	TIMED	TIMED			

2.3 Aspect



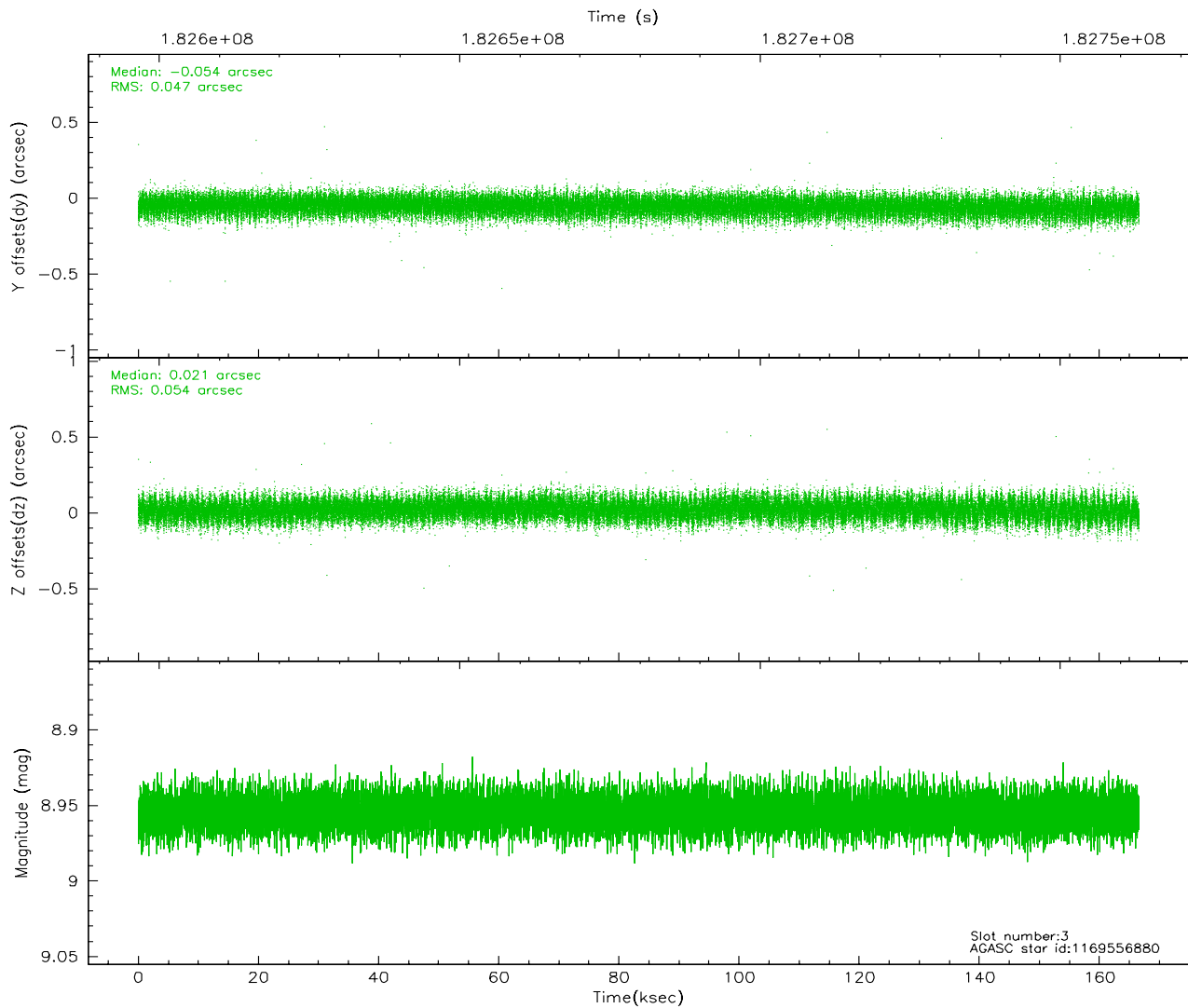
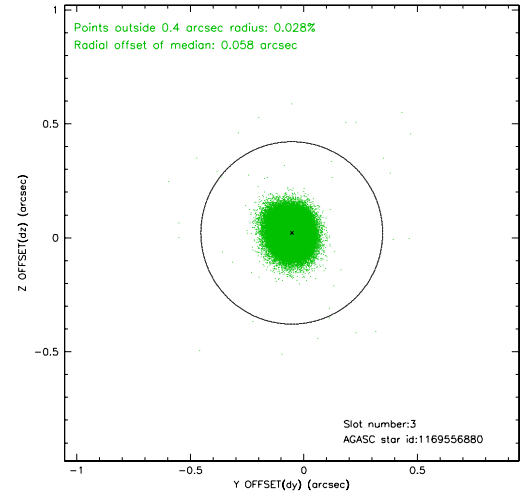
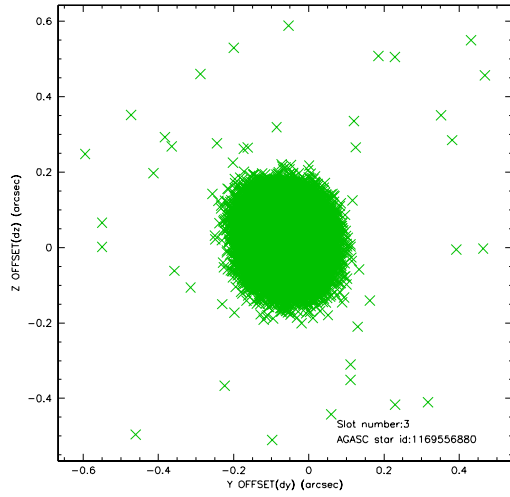


Slot Statistics

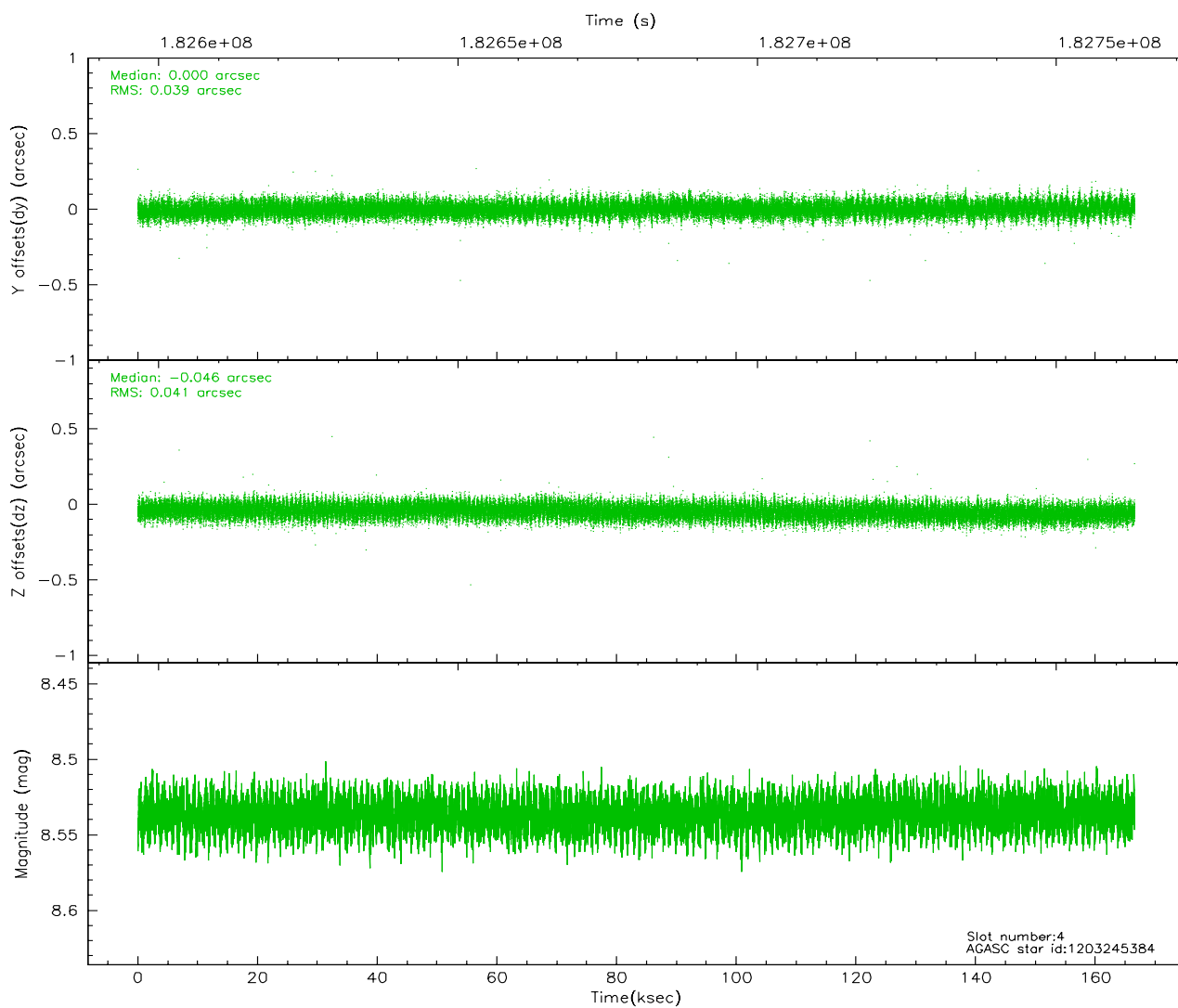
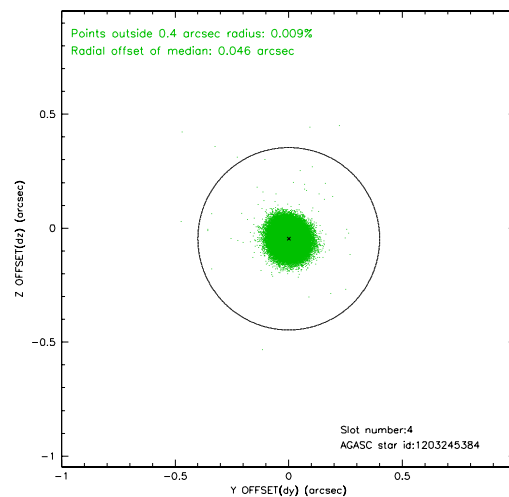
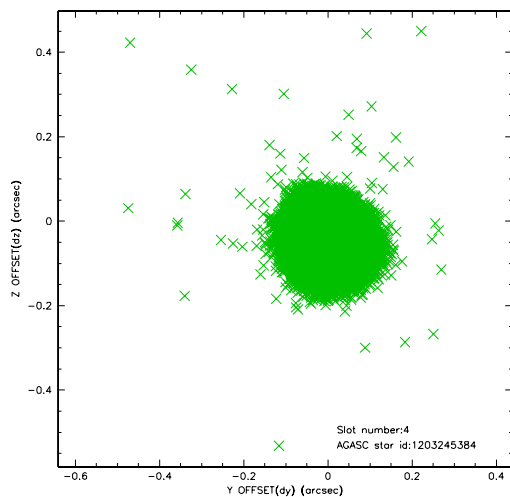
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	40632	-0.071	-0.055	0.006	0.011	0.000000	0.000000	-760.37	-1848.17
1	FID	ACIS-S-4	7.18	40633	0.040	0.041	0.006	0.010	0.000000	0.000000	2153.06	60.53
2	FID	ACIS-S-6	7.38	40633	0.003	0.021	0.007	0.014	0.000000	0.000000	401.52	697.77
3	GUIDE	1169556880	8.95	81164	-0.054	0.021	0.076	0.122	118.476472	-67.455164	1035.24	-1850.35
4	GUIDE	1203245384	8.54	81253	0.000	-0.046	0.060	0.097	117.096059	-68.354351	-2058.62	247.11
5	GUIDE	1203257328	9.70	81073	0.140	0.039	0.145	0.254	116.686345	-67.749877	145.62	672.41
6	GUIDE	1203258824	9.88	81145	-0.089	0.081	0.113	0.185	118.613315	-67.511932	815.65	-2020.97
7	GUIDE	1203248984	9.66	81216	-0.005	-0.097	0.133	0.233	117.212023	-68.341440	-2021.71	90.25

2.4 Star Slots

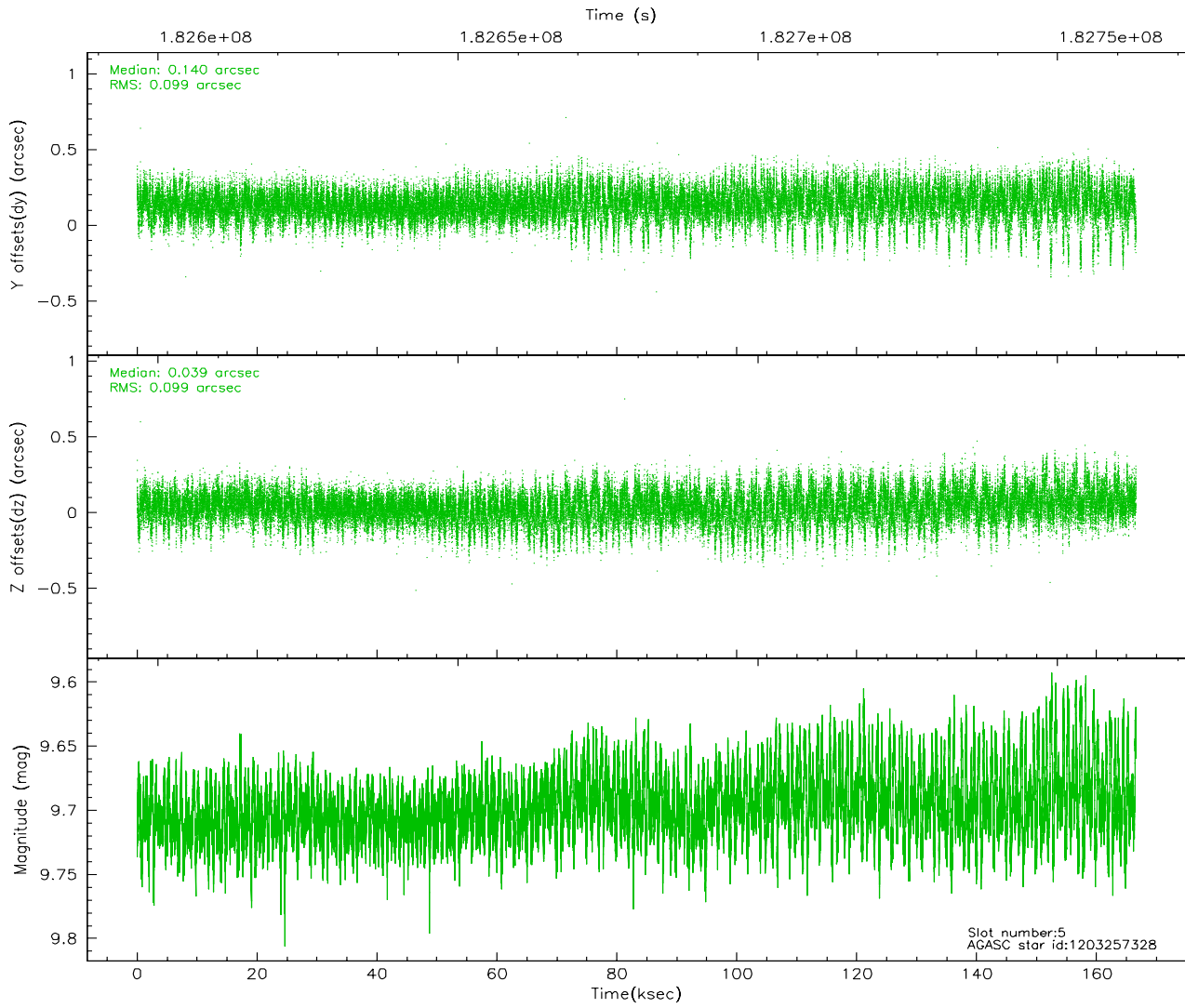
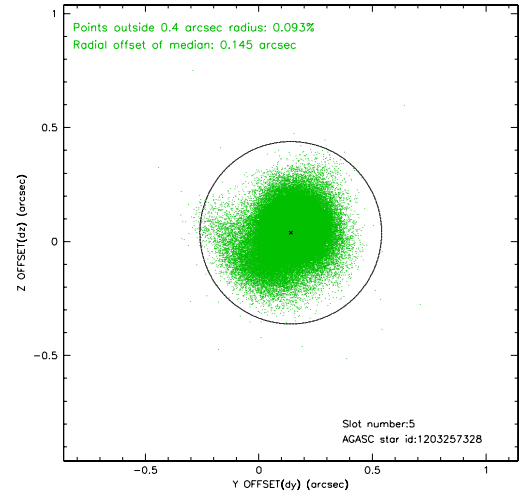
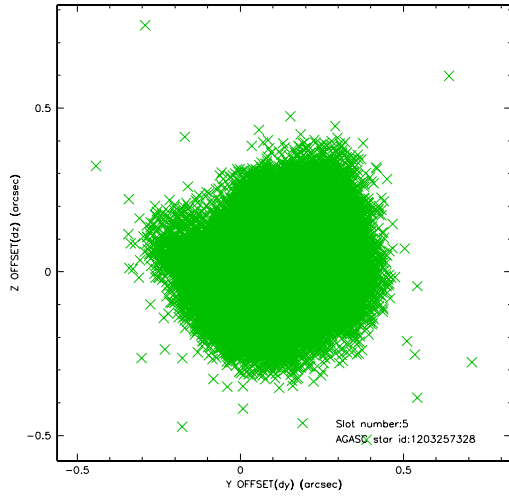
2.4.1 Slot 3



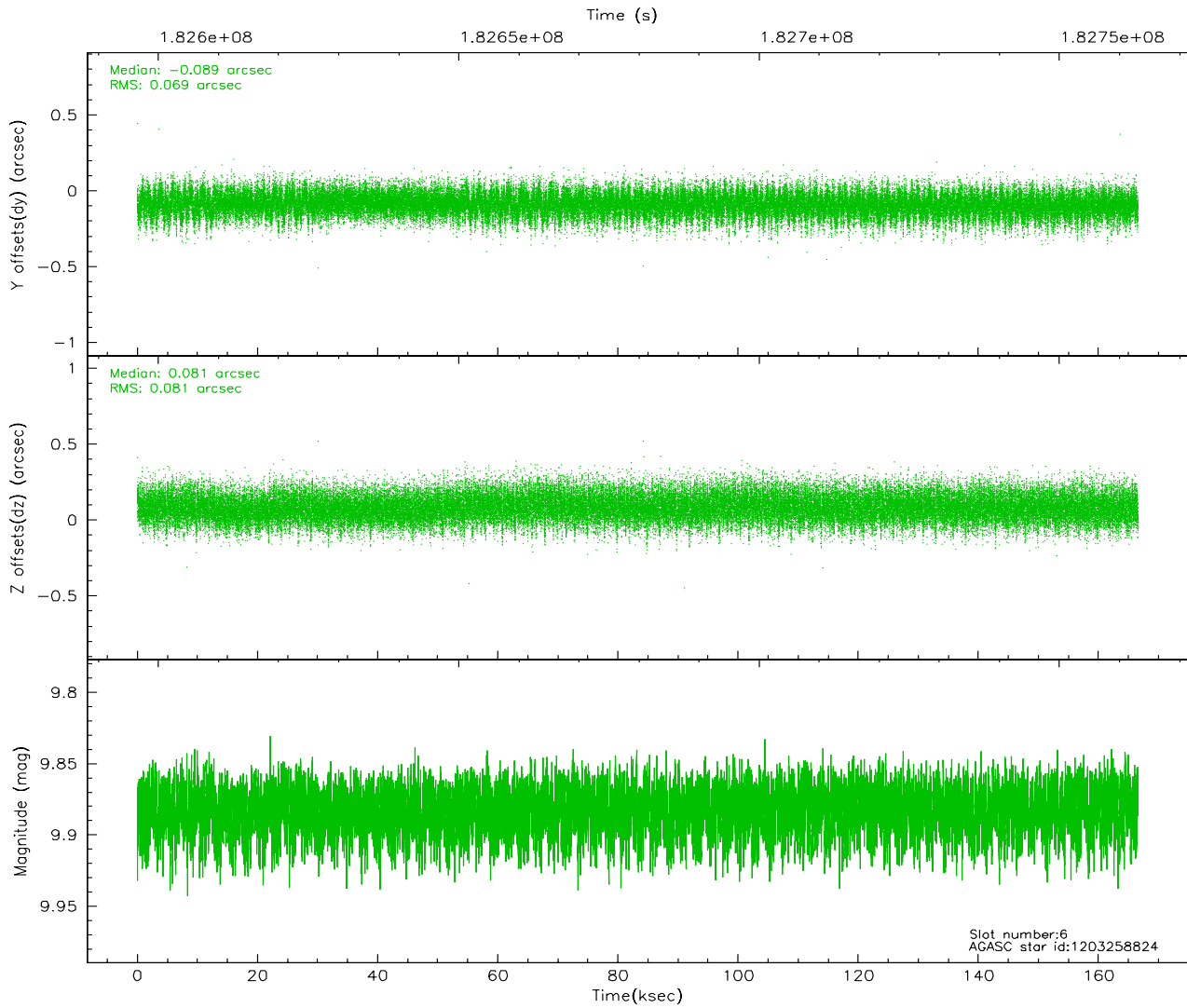
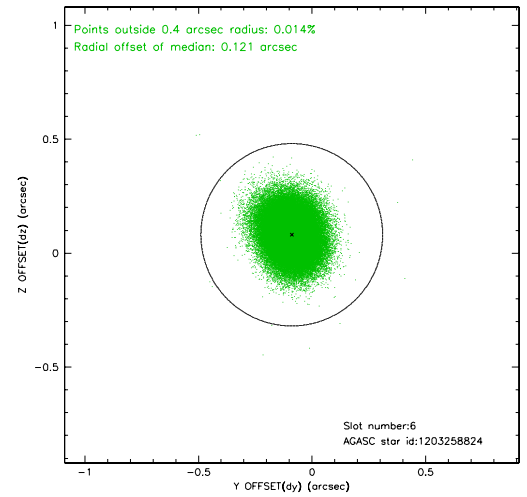
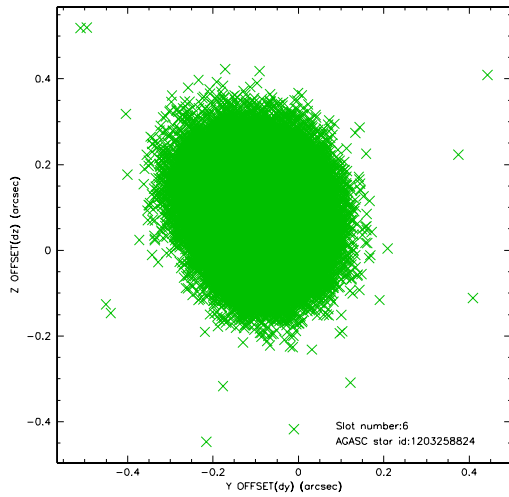
2.4.2 Slot 4



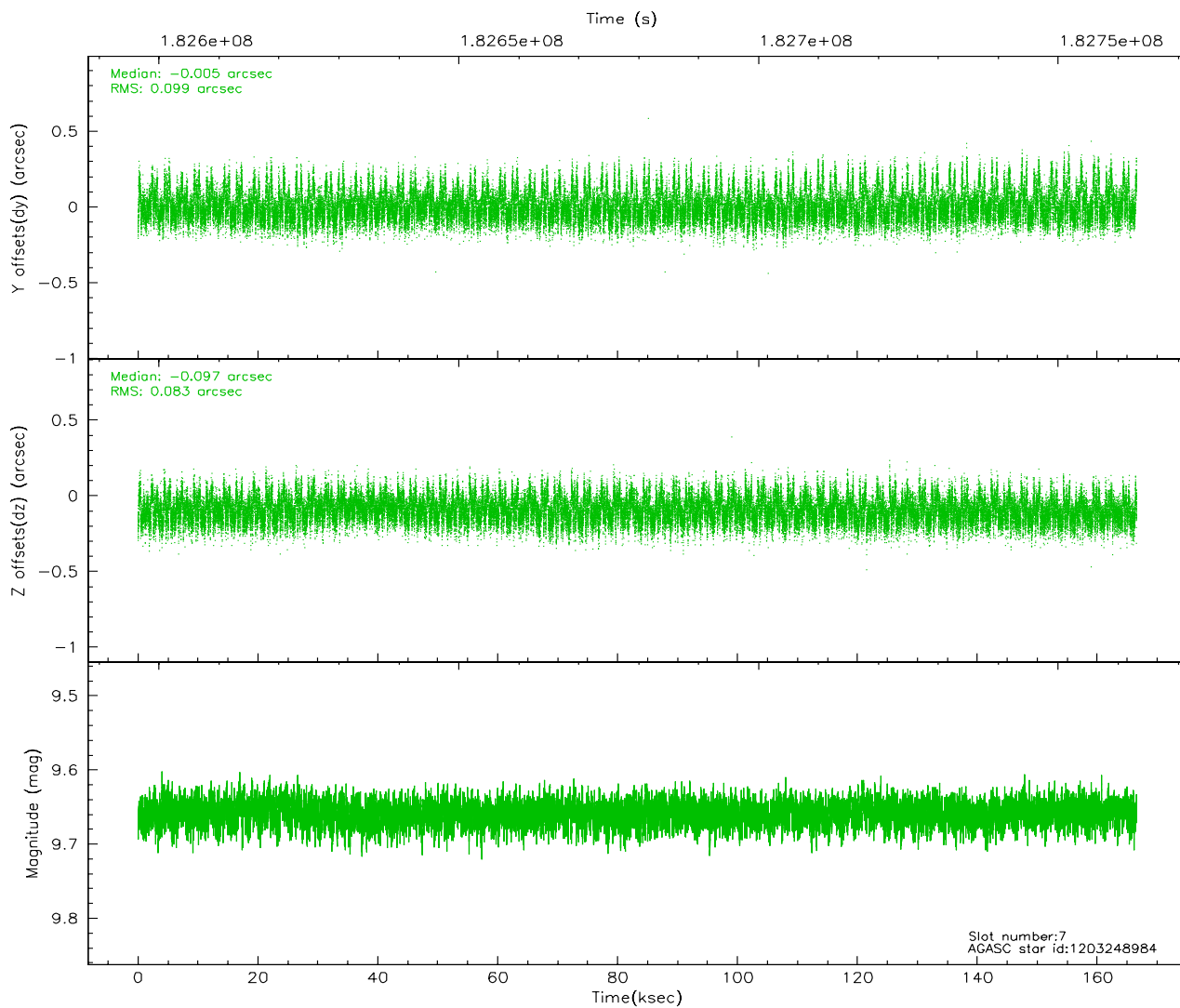
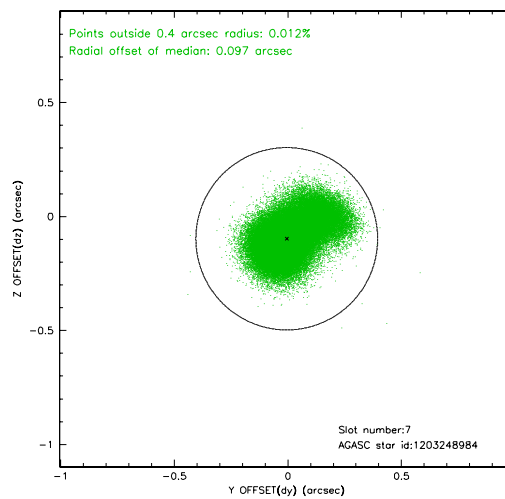
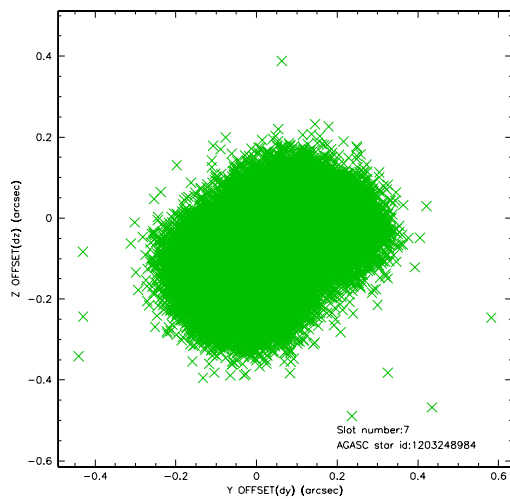
2.4.3 Slot 5



2.4.4 Slot 6

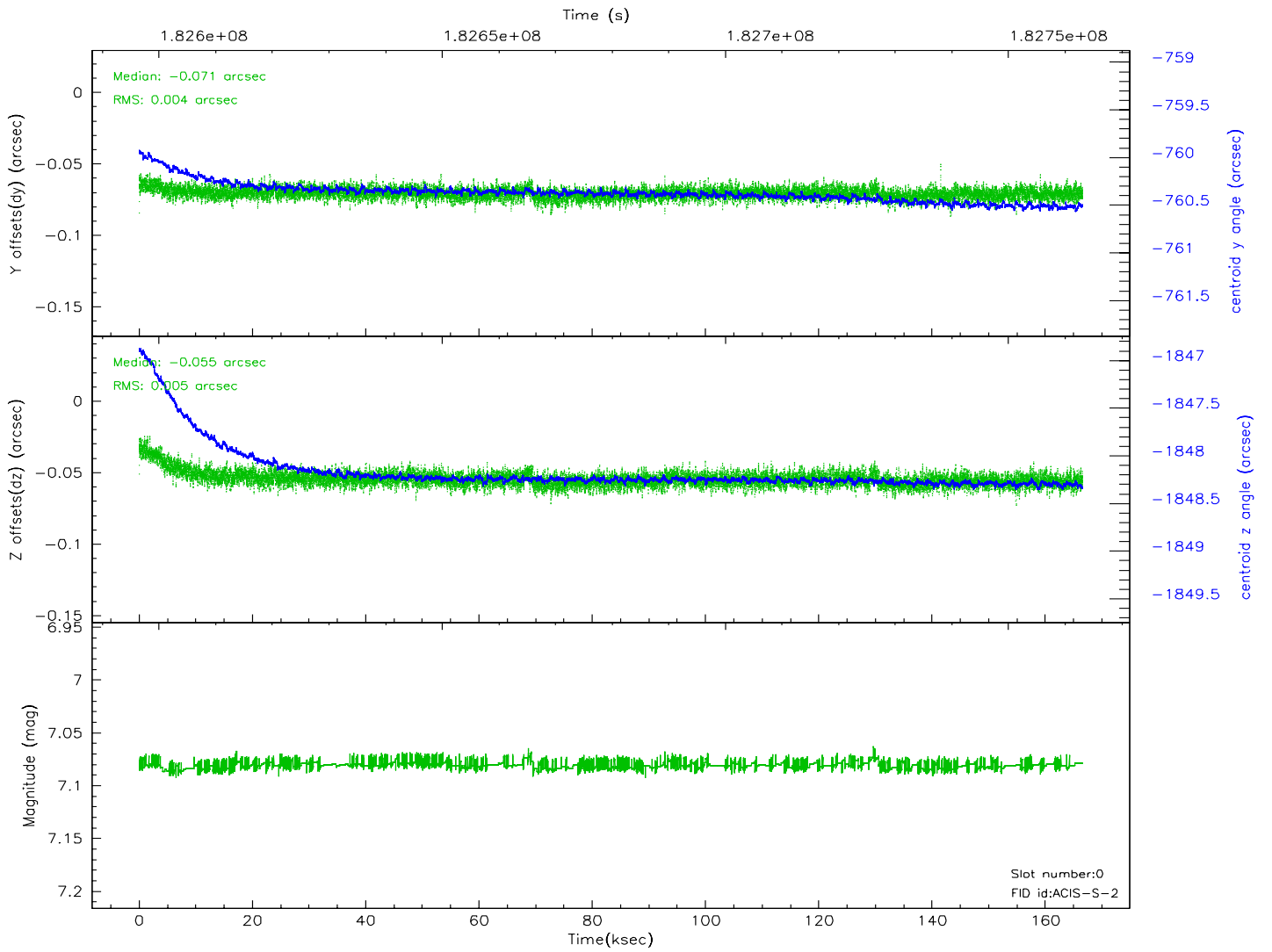
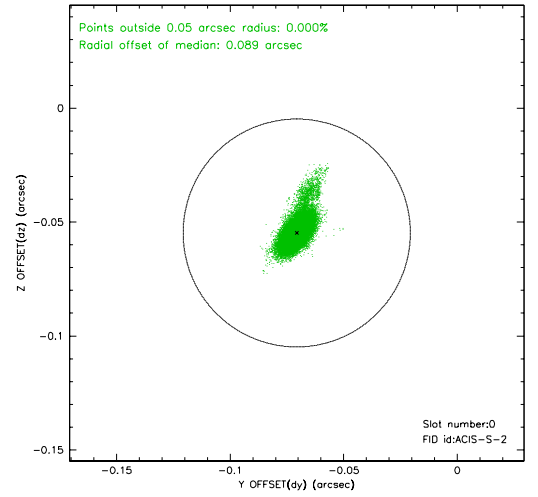
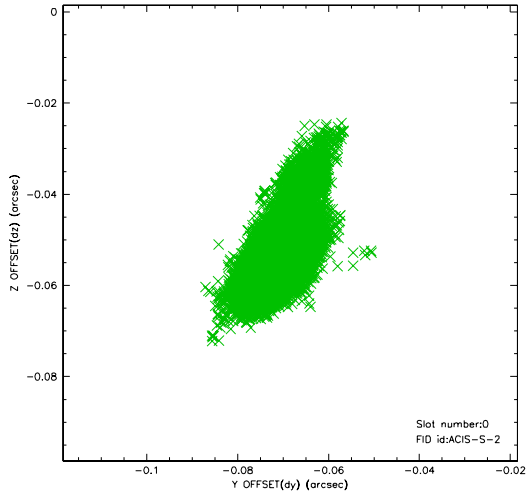


2.4.5 Slot 7

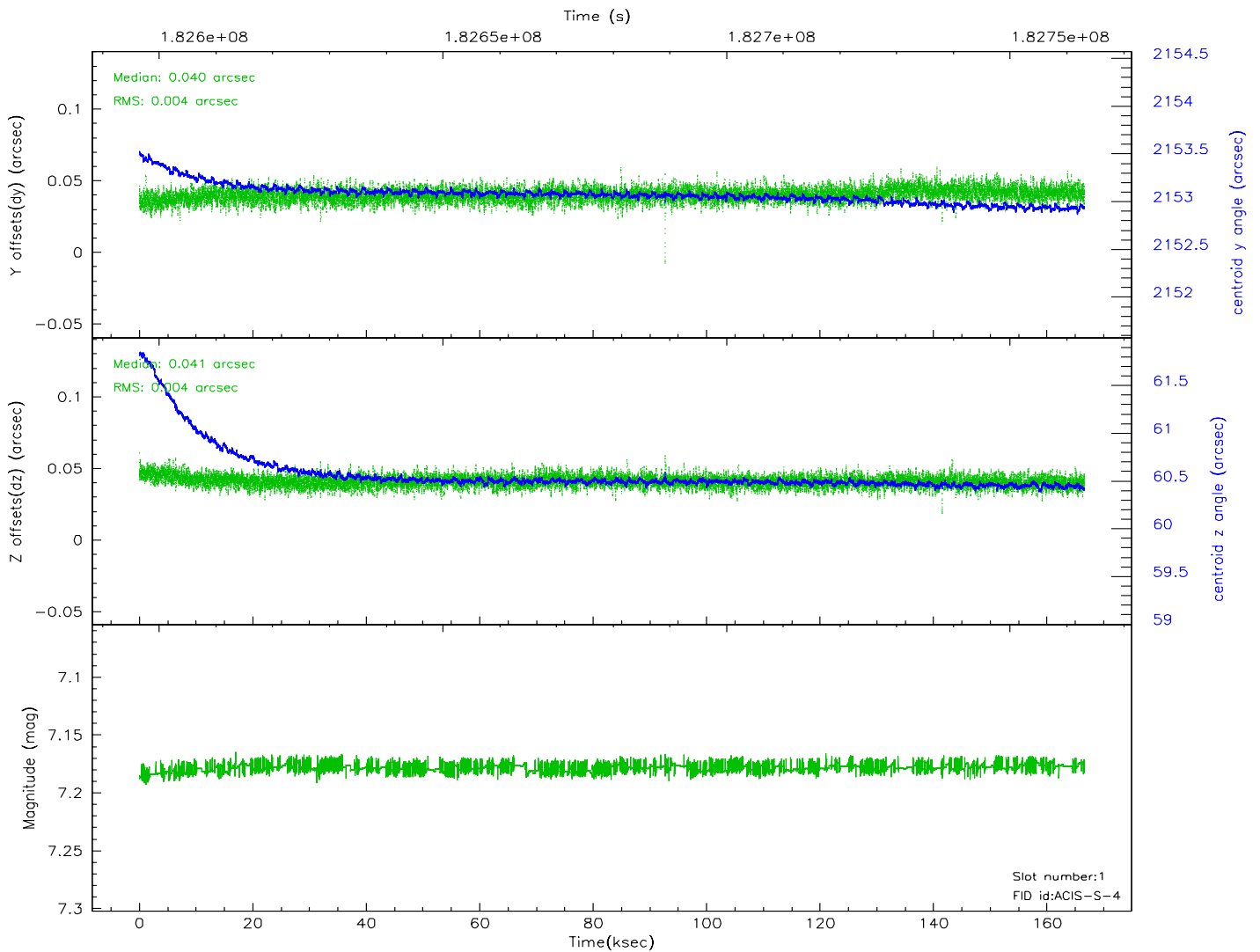
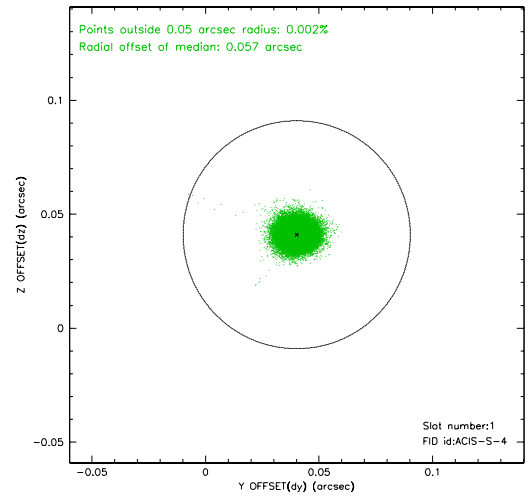
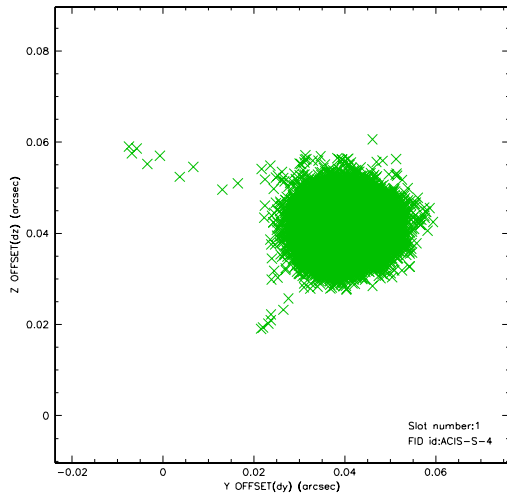


2.5 FID Slots

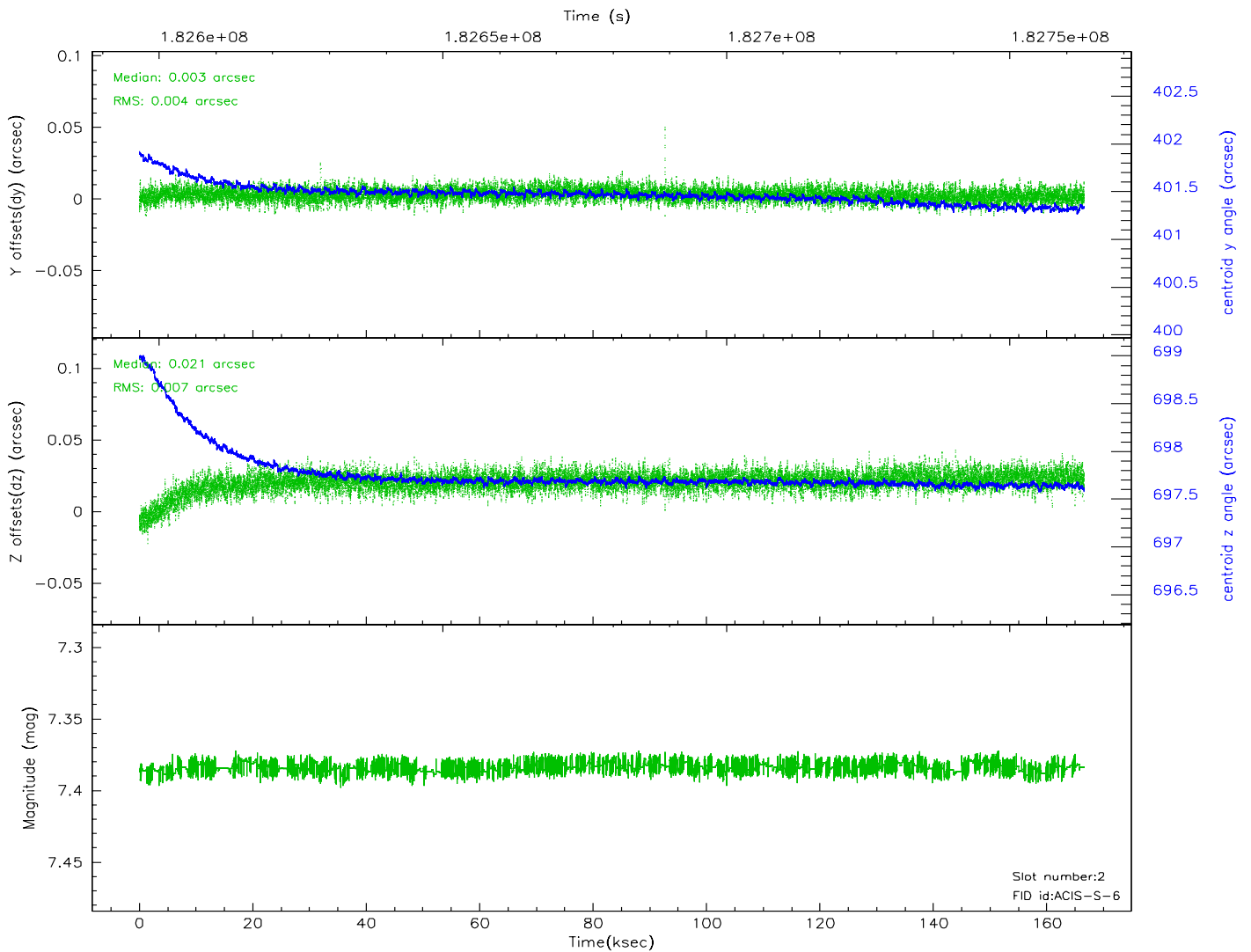
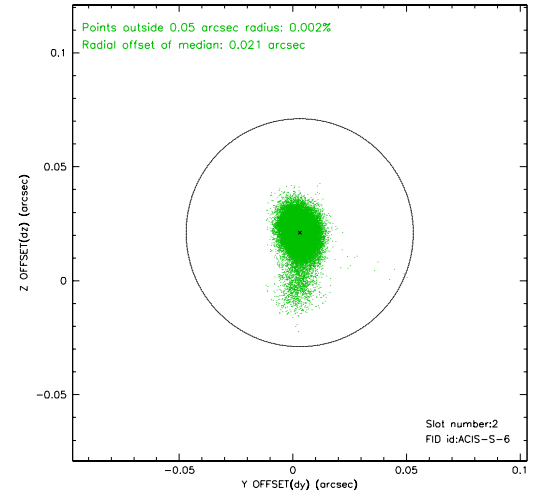
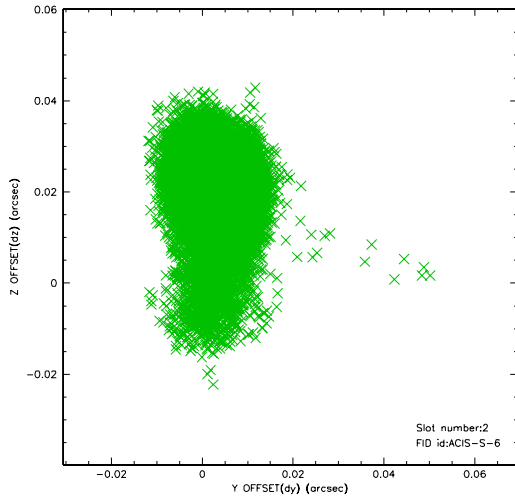
2.5.1 Slot 0



2.5.2 Slot 1

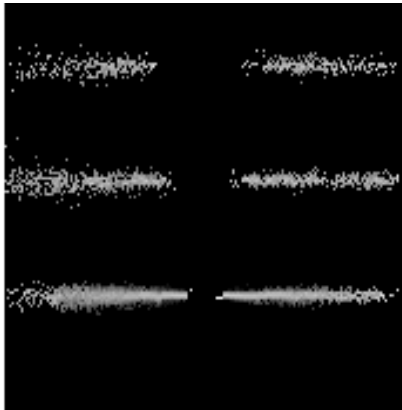


2.5.3 Slot 2

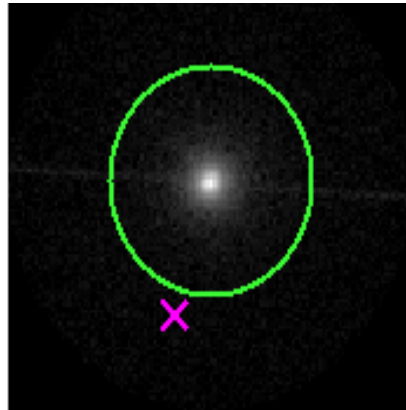


3 Gratings

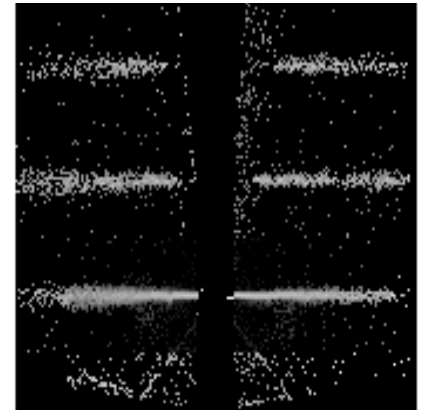
3.1 HEG Arm



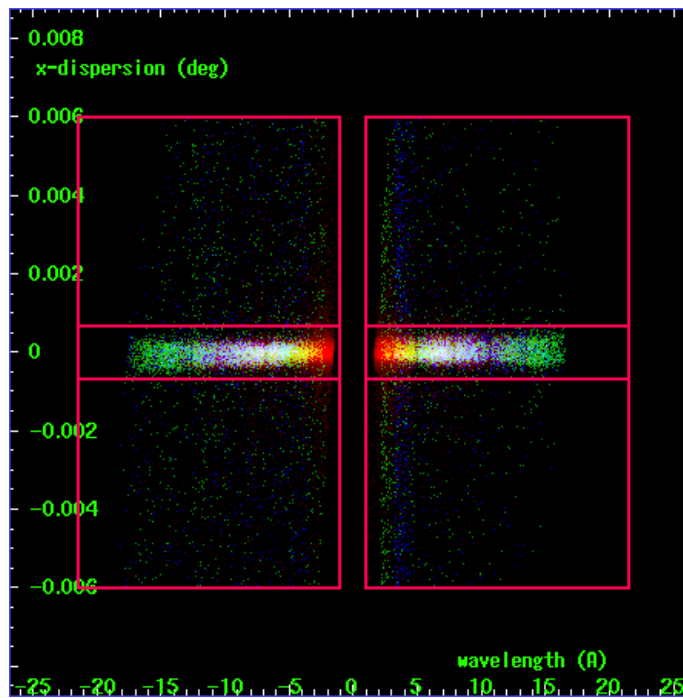
HEG Order Sort 123



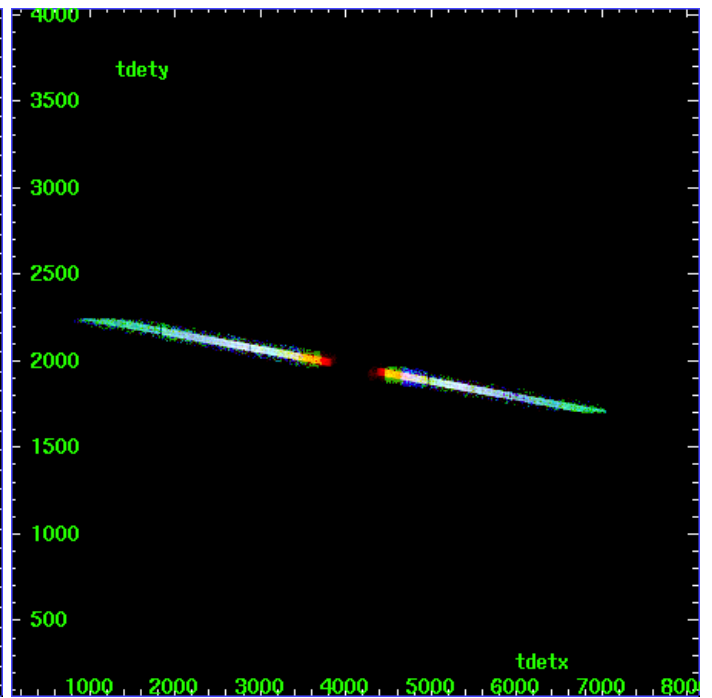
HEG Zero Order



HEG Order Sort ALL

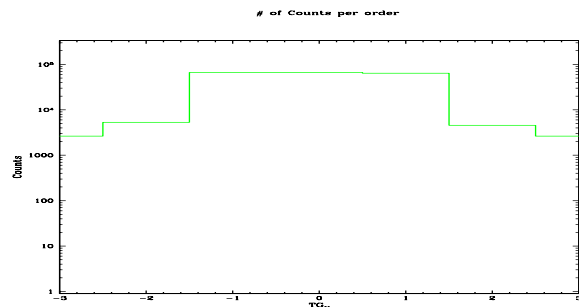


Spot Image HEG

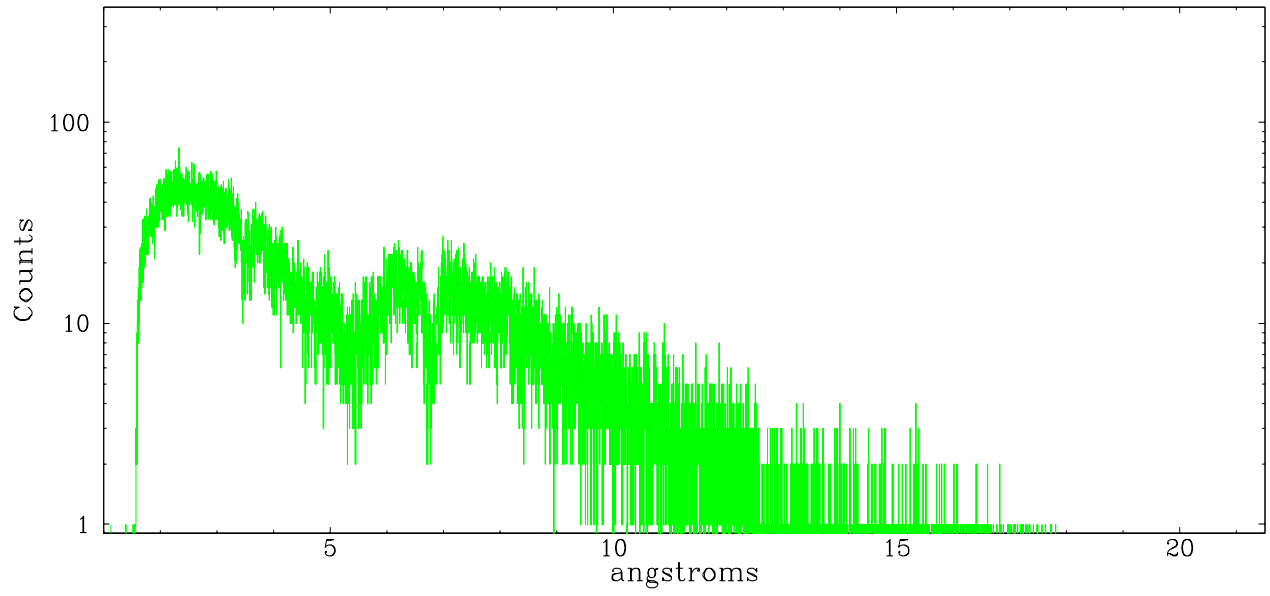


Full Detector HEG

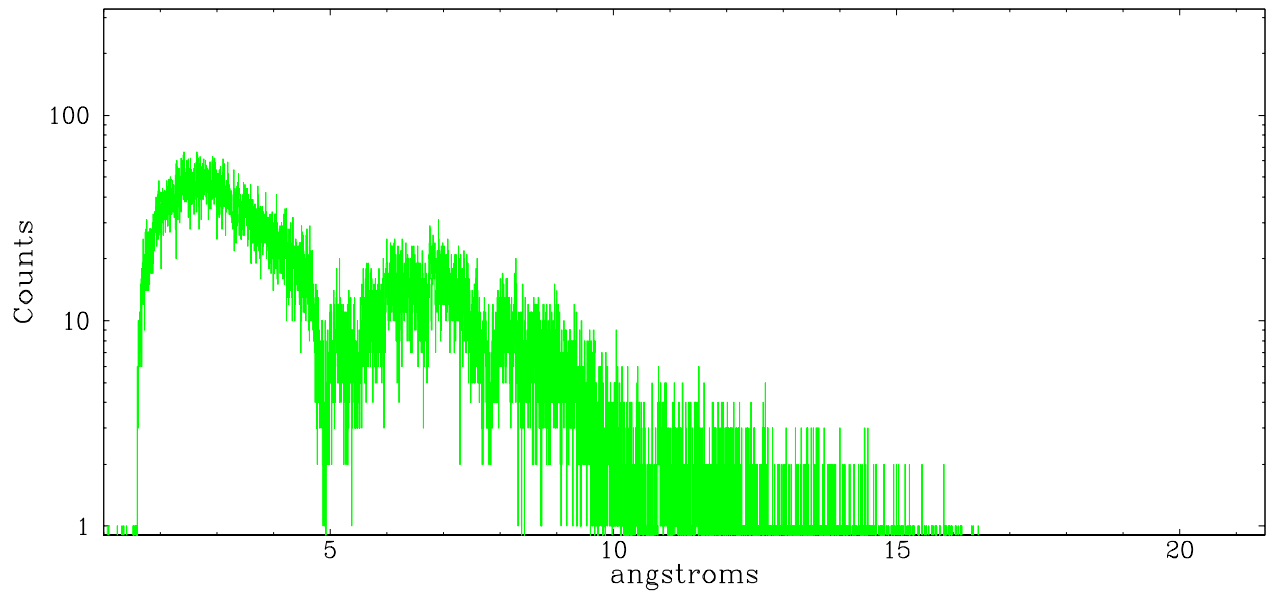
	order	order	order	order	order	order	order
	-3	-2	-1	0	1	2	3
Events	2642	5293	66630	66638	64129	4569	2637



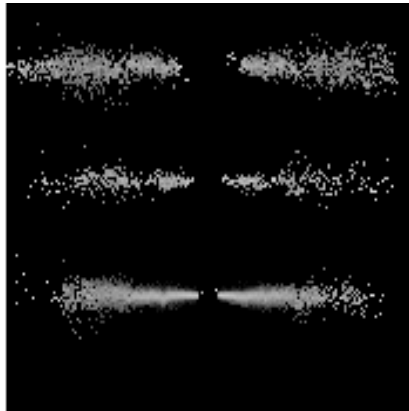
heg order -1



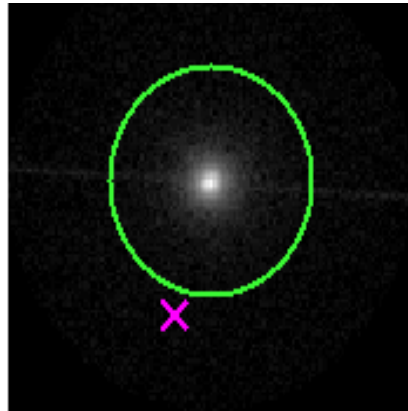
heg order +1



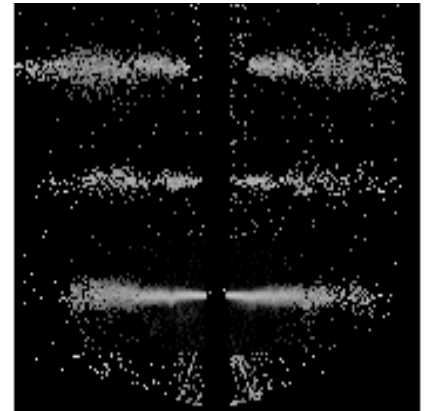
3.2 MEG Arm



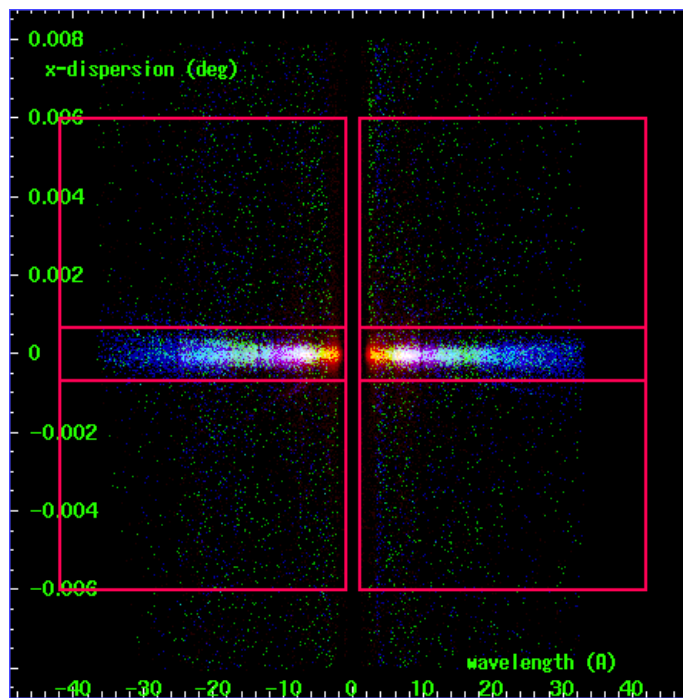
MEG Order Sort 123



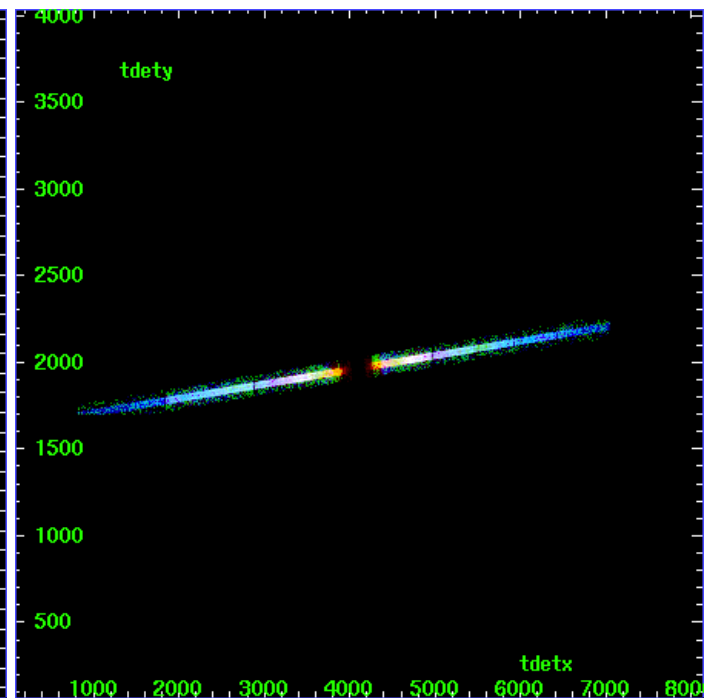
MEG Zero Order



MEG Order Sort ALL

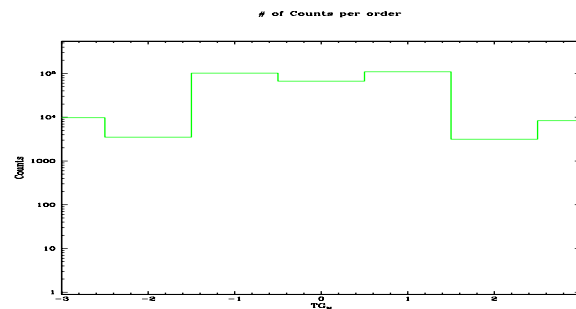


Spot Image MEG

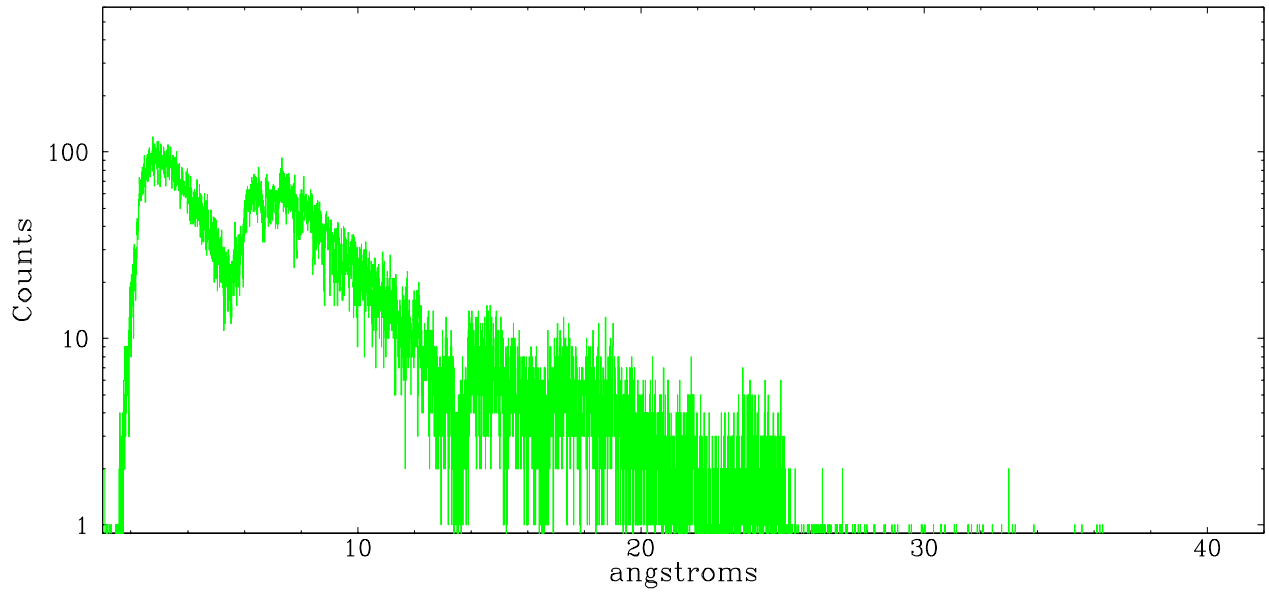


Full Detector MEG

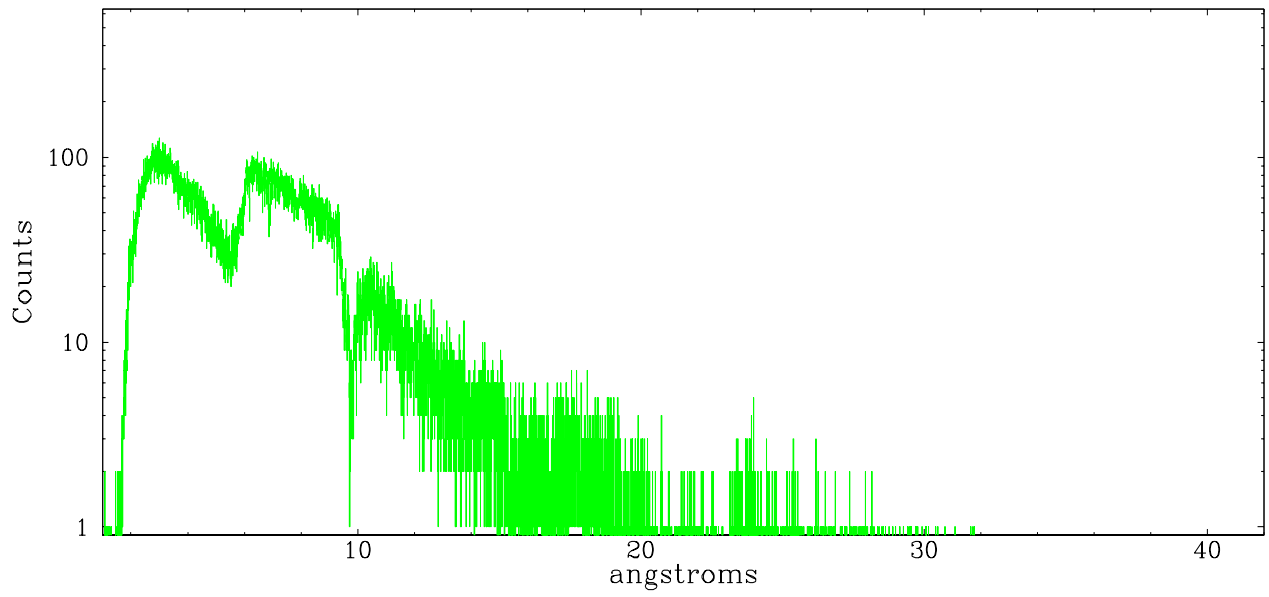
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	9740	3505	101631	66638	108827	3163	8366



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	166.598

A.2 Comments