

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1946 - L2 Version 001
Chandra X-Ray Center

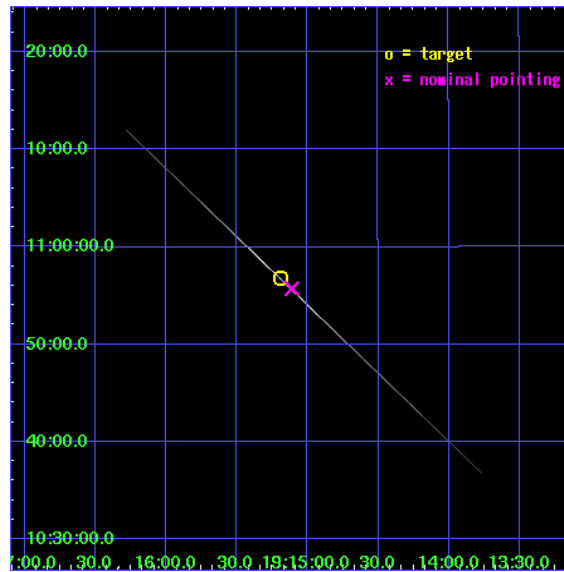
L2 Processing Date : Dec 28 2006

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1 Front

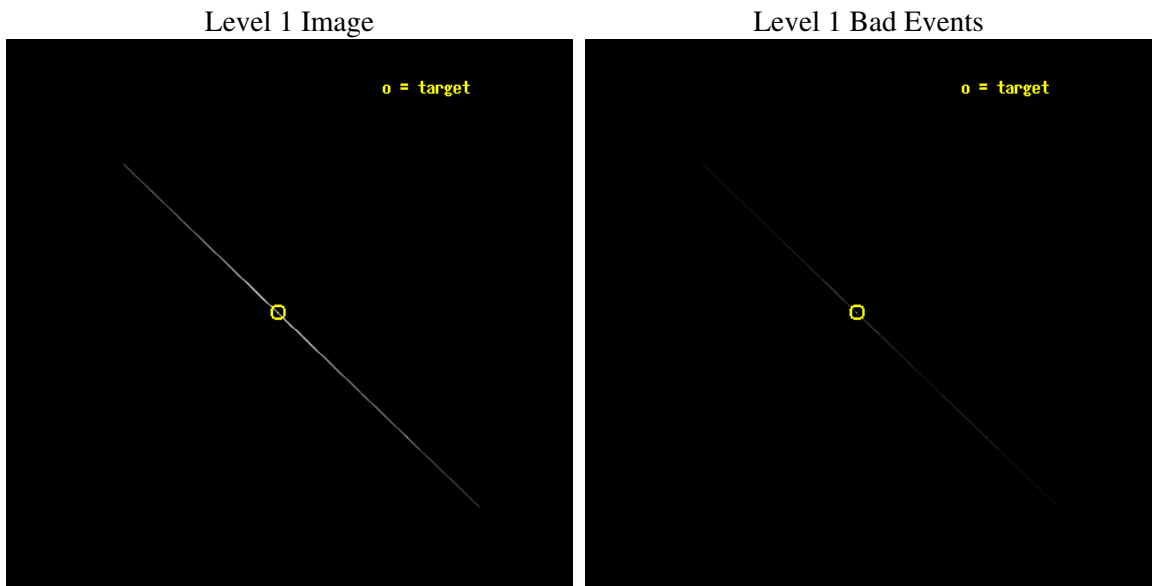
seq_num	400159
obs_id	1946
title	ACCRETION DISK STRUCTURE IN VARIOUS SPECTRAL STATES OF GRS 1915+105
observer	DR. RONALD REMILLARD
object	GRS 1915+105
ra_targ	288.798333
dec_targ	10.945806
ra_nom	288.77767163068
dec_nom	10.92901346753
roll_nom	223.51590519603
revision	4
ontime	28554.874952719
livetime	28443.332472435
ontime4	28554.874866888
ontime5	28554.874865338
ontime6	28554.874864072
ontime7	28554.874952719
ontime8	28554.874861732
ontime9	28554.874950111
l2events	3900346



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.4
date	2006-12-19T10:23:48
revision	3

sched_exp_time	28000.000000
ontime	29042.125939876
ontime4	29042.126937076
ontime5	29042.126569346
ontime6	29042.126217917
ontime7	29042.125939876
ontime8	29042.125530869
ontime9	29042.125272691
l1events	4248999

2.1.3 Events

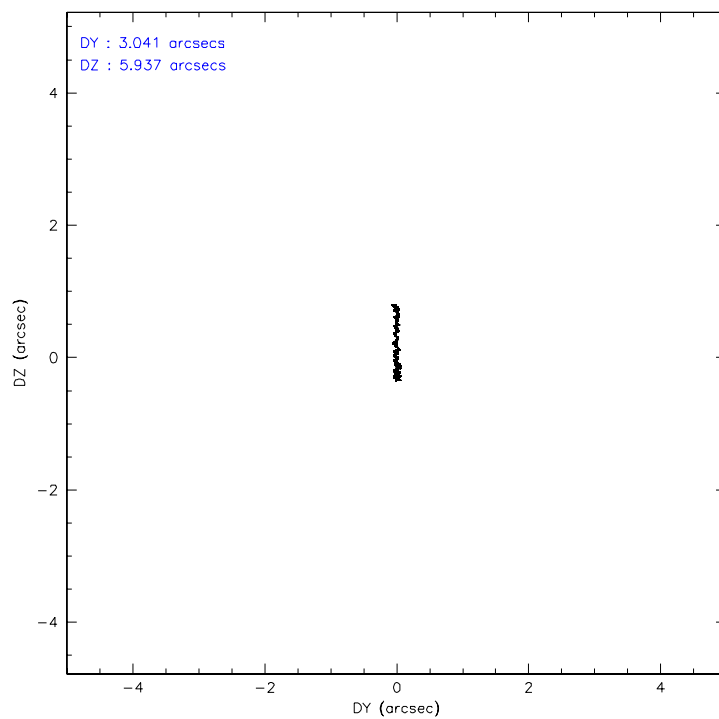
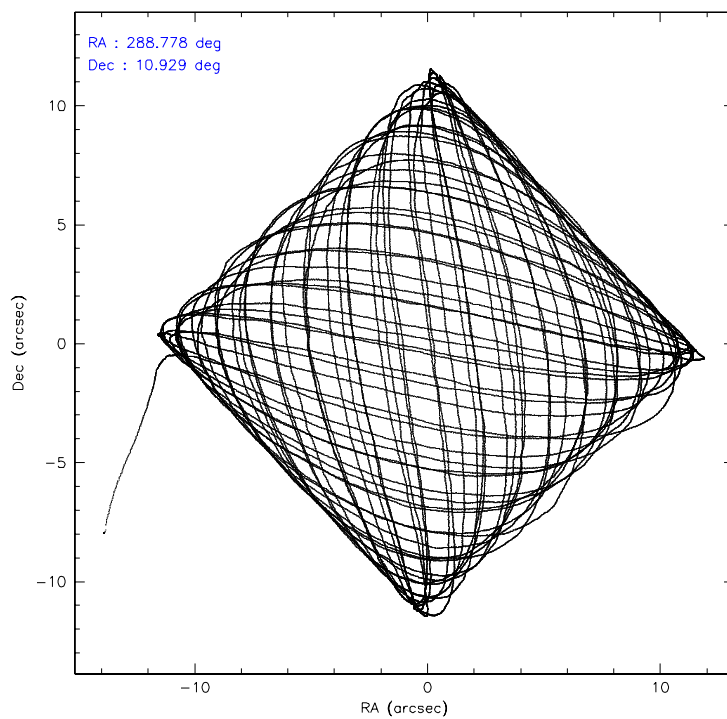
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	65789	245819	878872	2406781	542723	109015
rejected events	7013	18647	15750	64784	15617	8840
rejected %	10%	7%	1%	2%	2%	8%

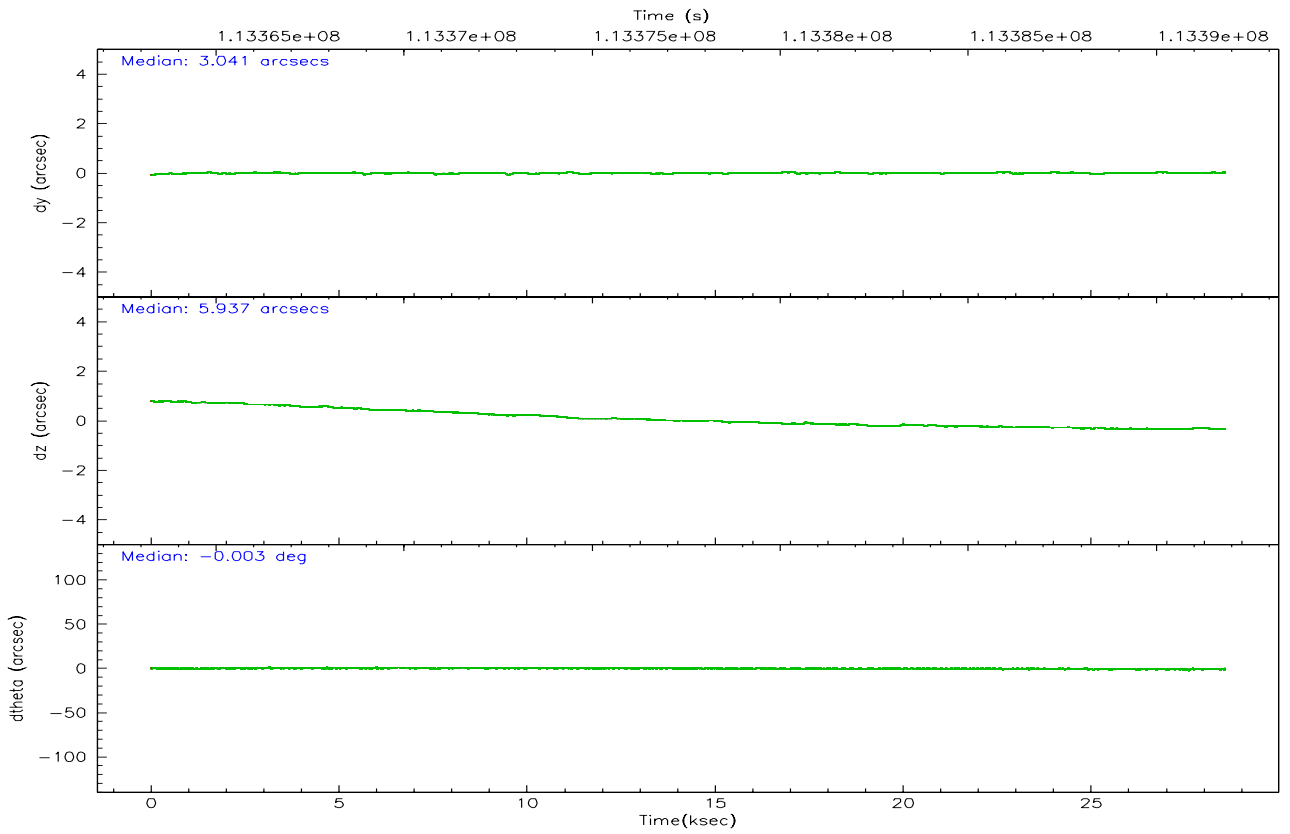
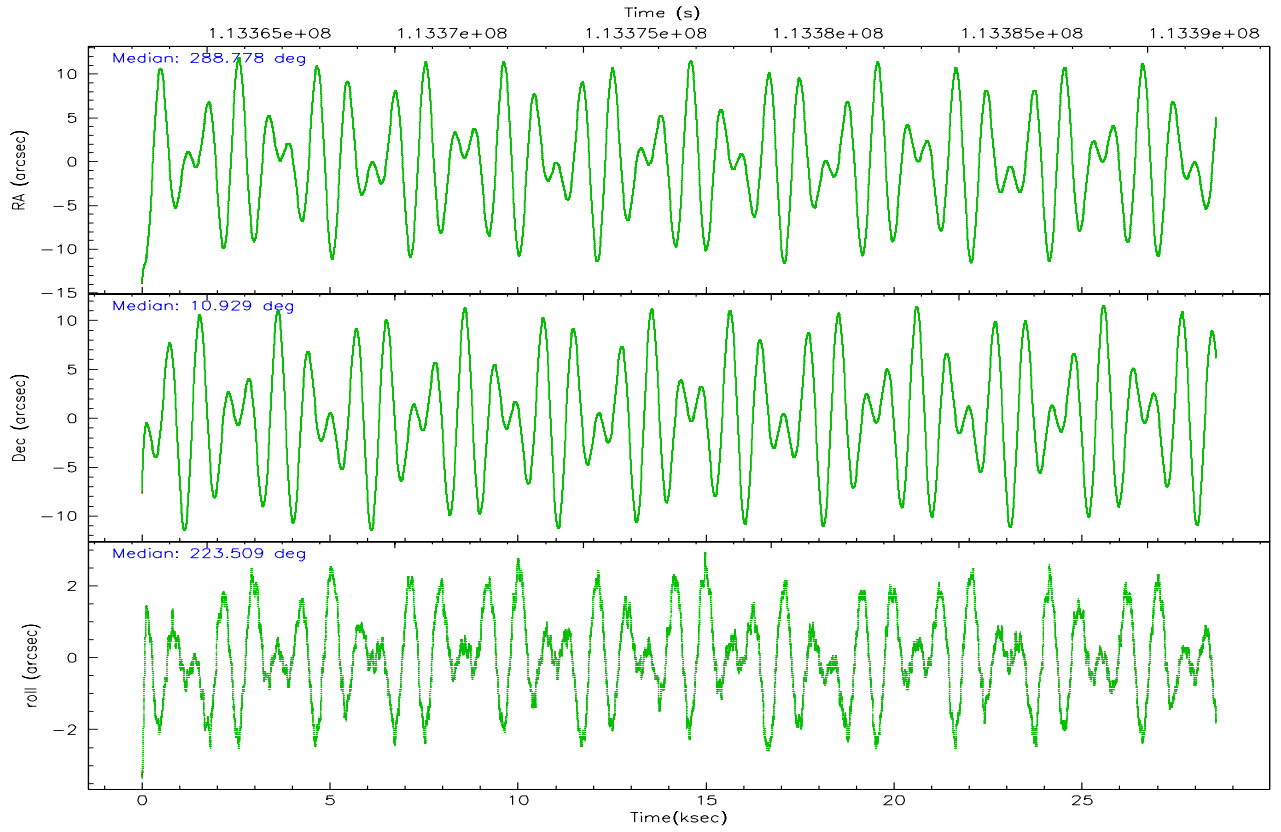
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8320	27385	122802	355845	213303	24793
	12%	11%	13%	14%	39%	22%
grade 1 events	107	181	485	4430	661	198
	0%	0%	0%	0%	0%	0%
grade 2 events	31768	82474	633843	673269	237104	50730
	48%	33%	72%	27%	43%	46%
grade 3 events	5269	7044	10777	204543	17669	5757
	8%	2%	1%	8%	3%	5%
grade 4 events	5240	6824	10566	202469	17457	6413
	7%	2%	1%	8%	3%	5%
grade 5 events	6267	15534	11529	48517	11669	7806
	9%	6%	1%	2%	2%	7%
grade 6 events	8818	106377	88870	917708	44860	13318
	13%	43%	10%	38%	8%	12%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

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	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	288.785283	288.7776716306777	Subarray requested	NONE	NONE
Pointing Dec	10.955245	10.92901346752967	Alternating exposures requested	N	N
Pointing Roll	223.357837	223.5159051960327	Primary exposure time	0.000000	0
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-184.032523	-184.025251236478			
SIM translation stage offset (mm)	-6.1	-6.107271346529842			
Observation start time	113363835.184000	113362693.13789			
Observation start date	2001-08-05T01:56:11	2001-08-05T01:38:13			
Observation end time	113391835.184000	113392812.76408			
Observation end date	2001-08-05T09:42:51	2001-08-05T10:00:12			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



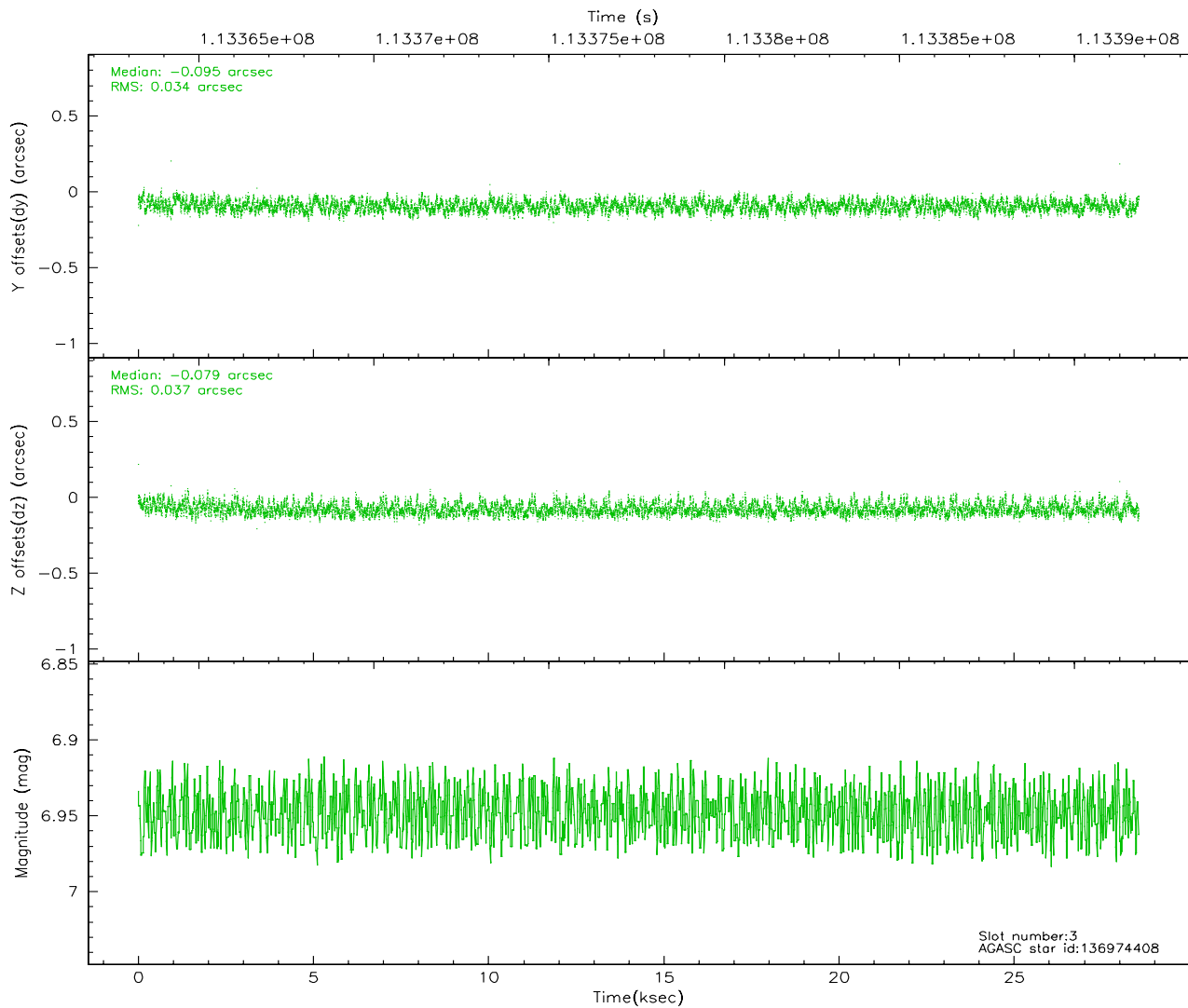
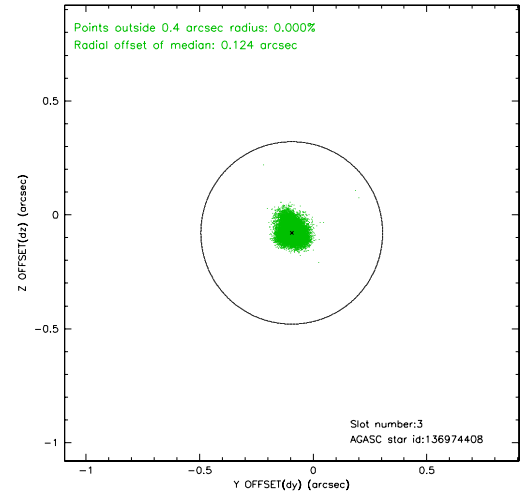
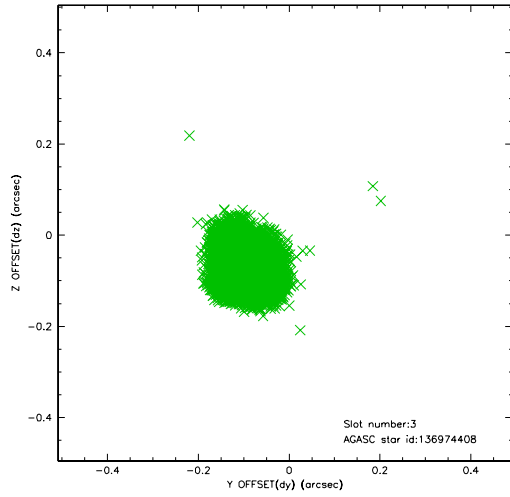


Slot Statistics

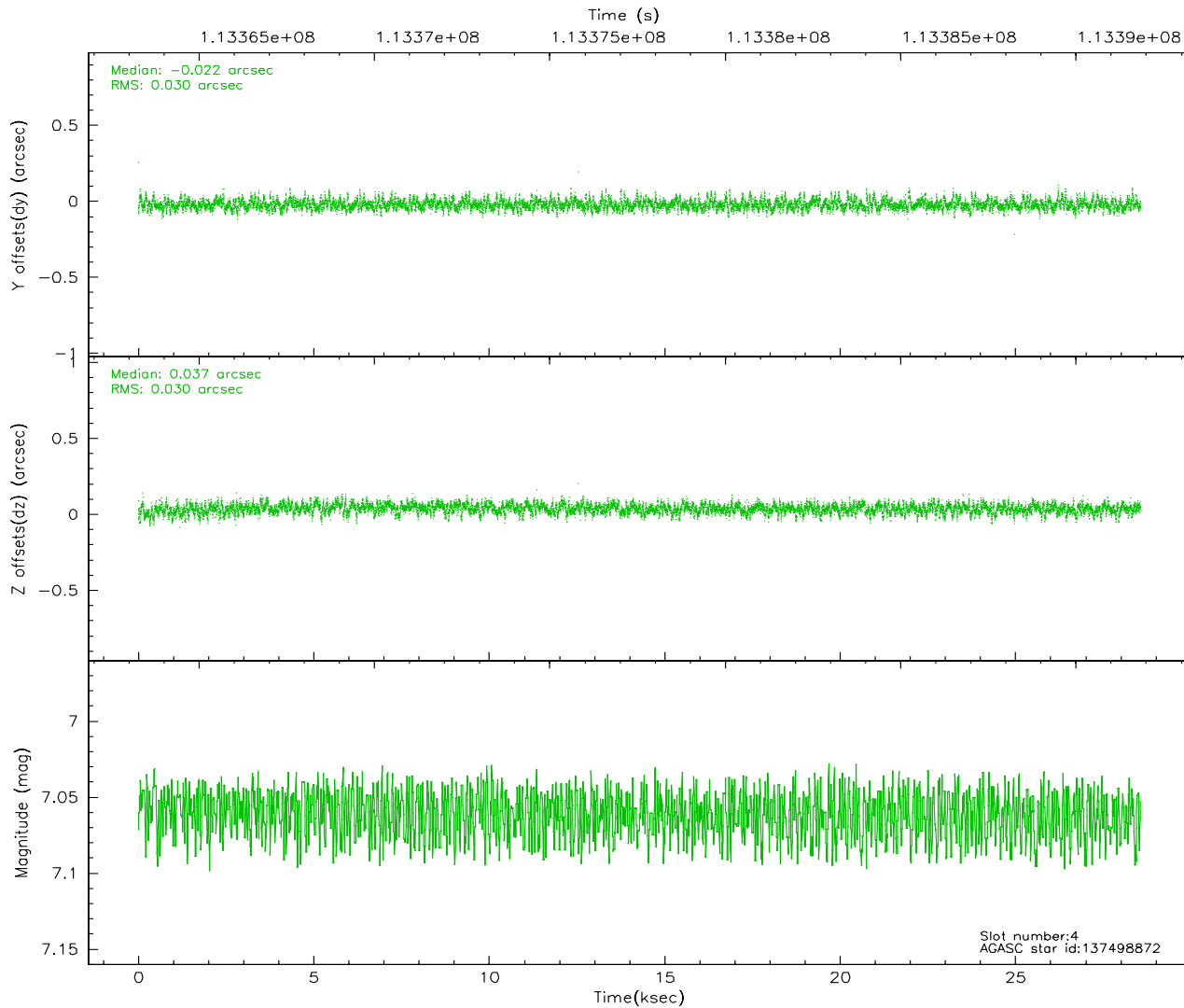
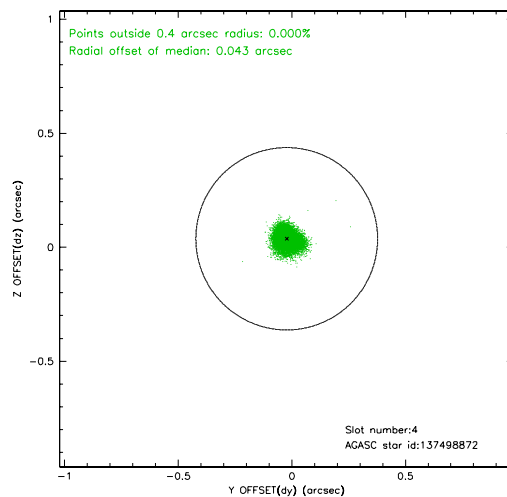
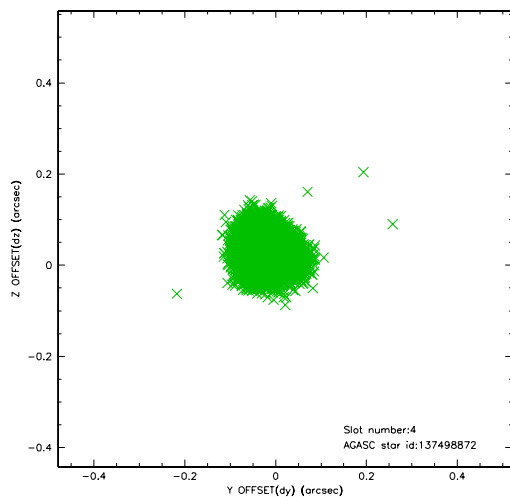
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	6967	-0.019	-0.068	0.011	0.020	0.000000	0.000000	-755.29	-1853.12
1	FID	ACIS-S-4	7.19	6967	-0.083	0.027	0.008	0.016	0.000000	0.000000	2157.90	55.32
2	FID	ACIS-S-5	7.23	6967	0.071	0.049	0.010	0.019	0.000000	0.000000	-1807.91	49.15
3	GUIDE	136974408	6.95	13933	-0.095	-0.079	0.054	0.085	288.806802	10.212409	1780.48	1996.55
4	GUIDE	137498872	7.06	13932	-0.022	0.037	0.045	0.074	288.350862	11.344926	151.54	-2073.63
5	GUIDE	136974776	7.81	13932	0.072	0.041	0.048	0.078	288.742109	10.409402	1460.39	1323.52
6	GUIDE	137497048	7.97	13931	0.018	-0.026	0.058	0.092	288.896055	11.554718	-1765.36	-1301.03
7	GUIDE	137102976	8.52	13929	0.022	0.026	0.066	0.107	289.193436	10.979652	-1109.79	925.21

2.4 Star Slots

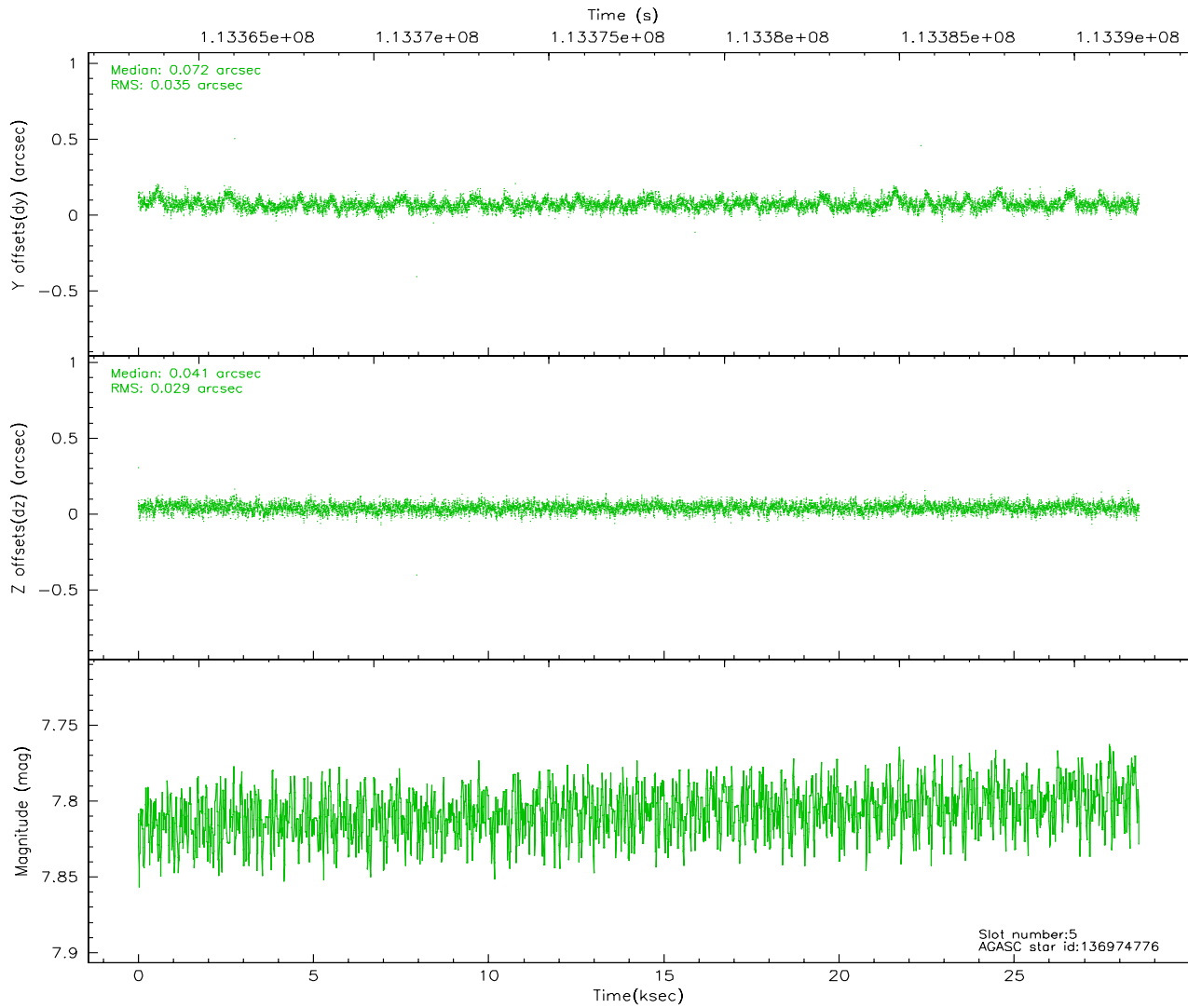
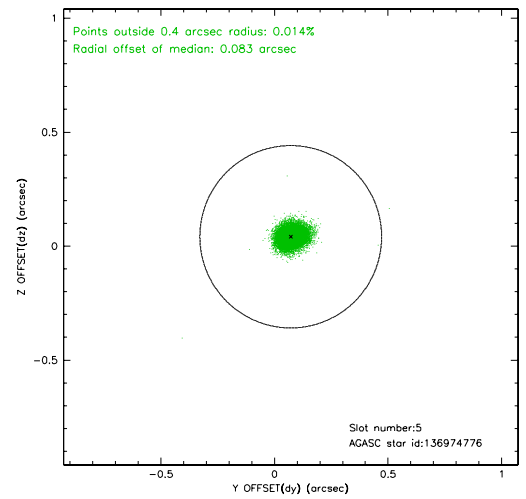
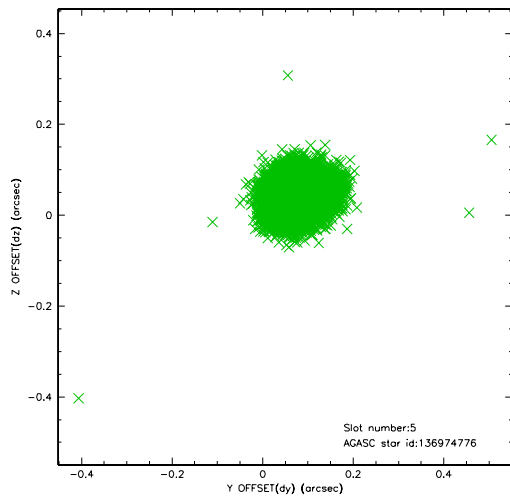
2.4.1 Slot 3



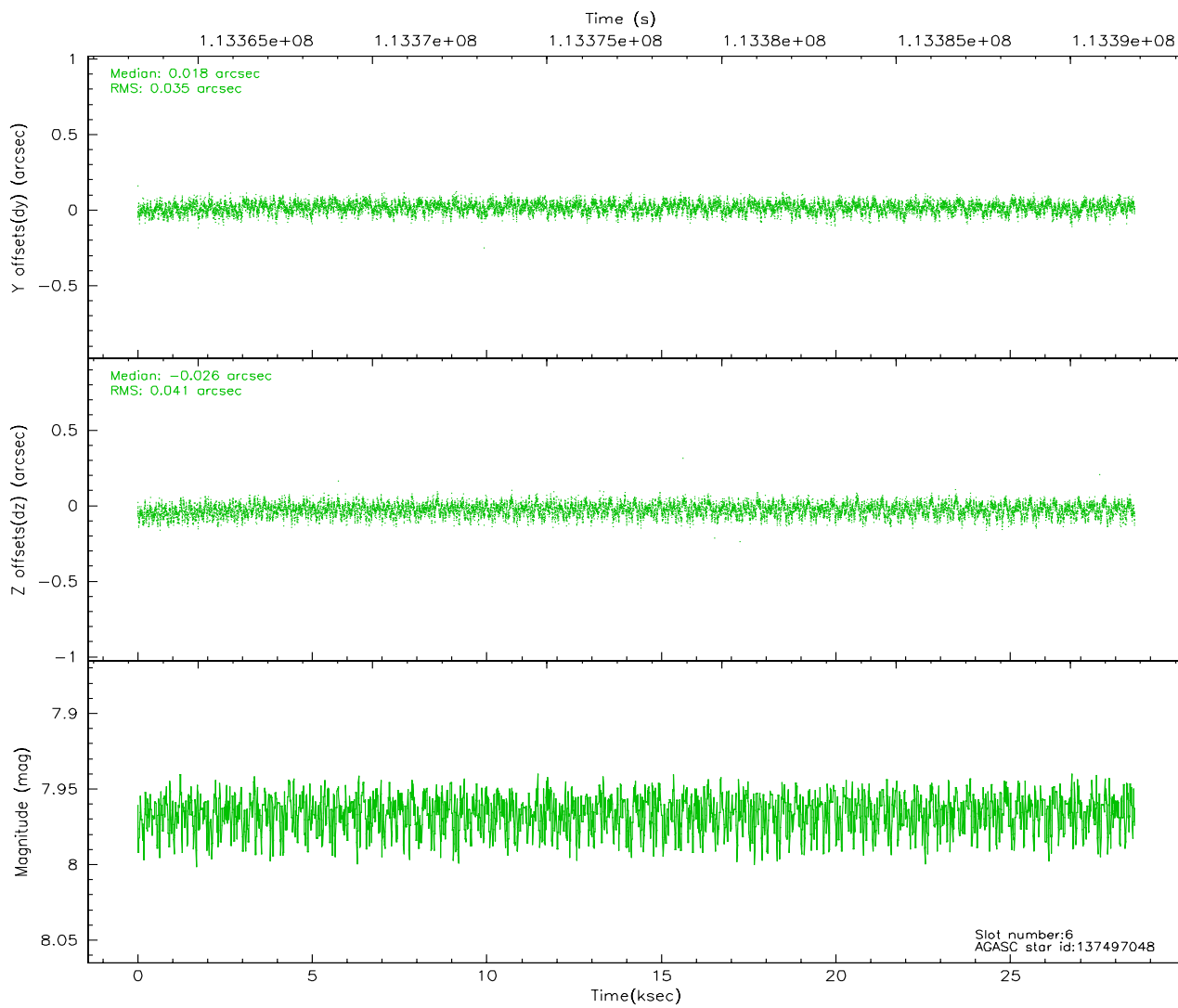
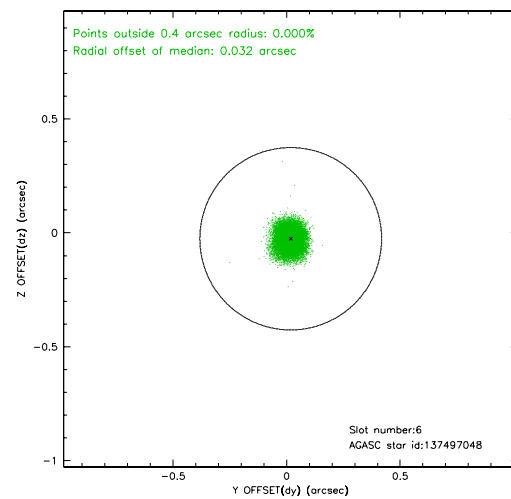
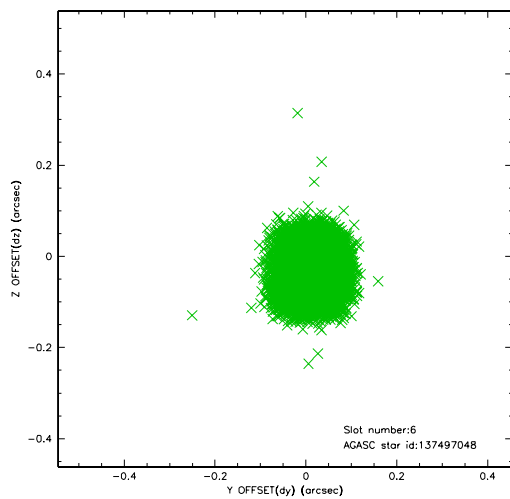
2.4.2 Slot 4



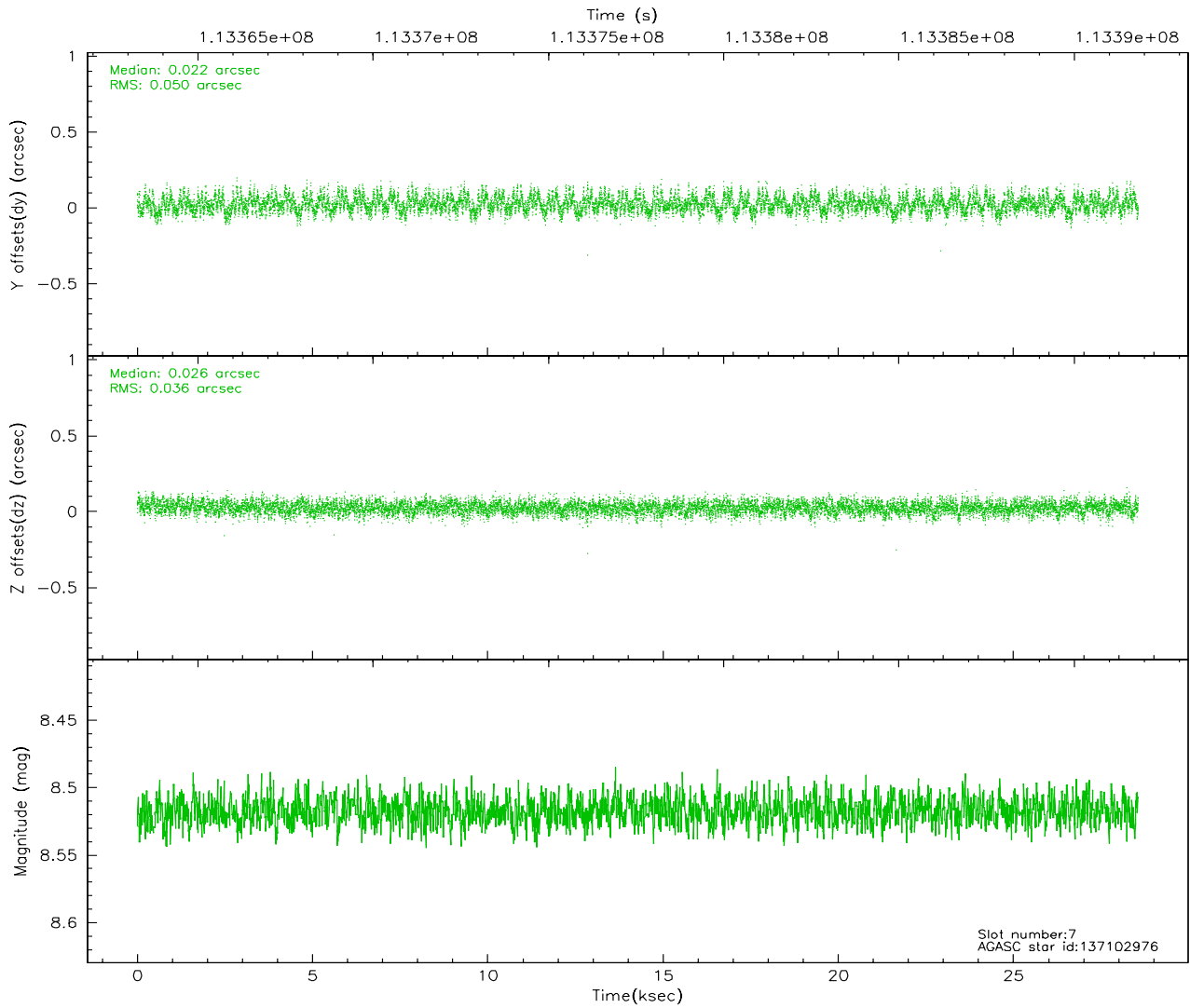
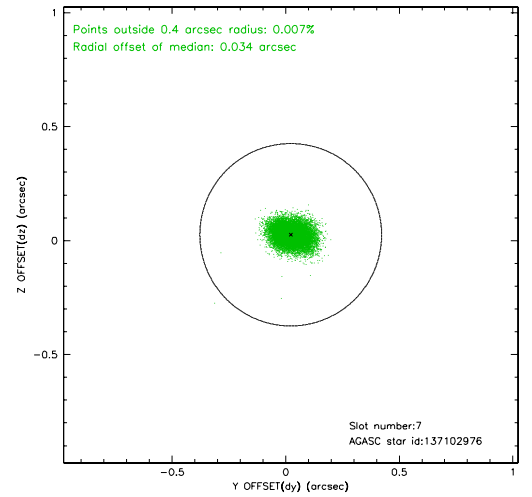
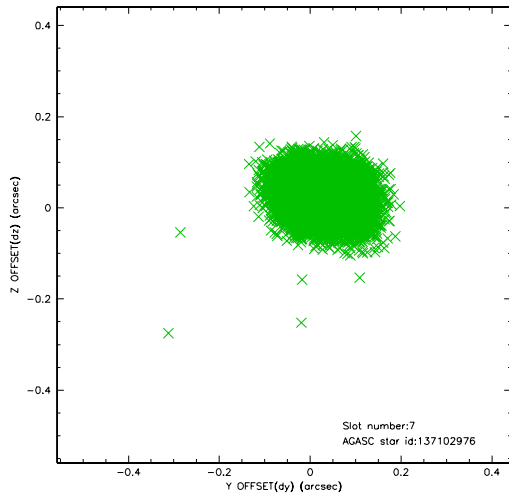
2.4.3 Slot 5



2.4.4 Slot 6

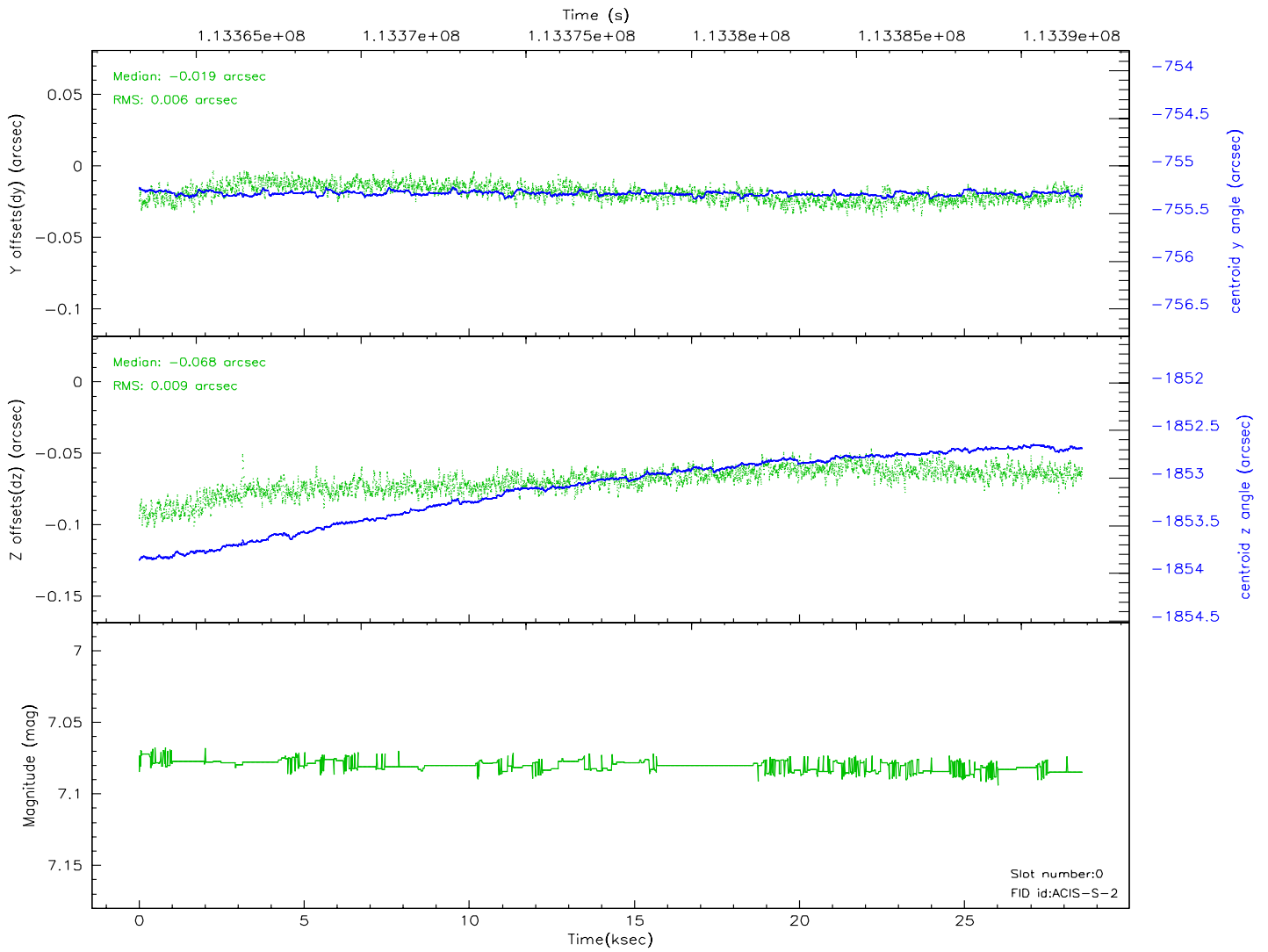
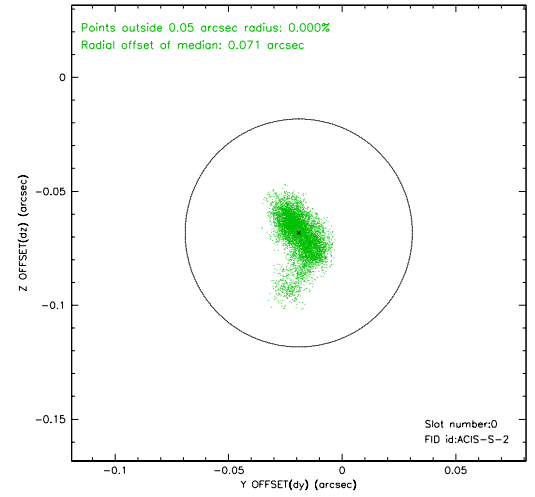
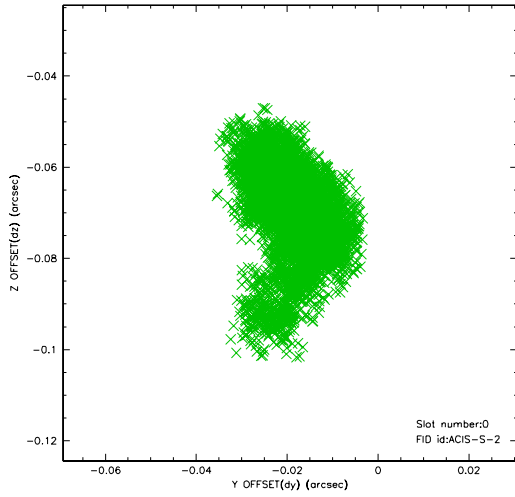


2.4.5 Slot 7

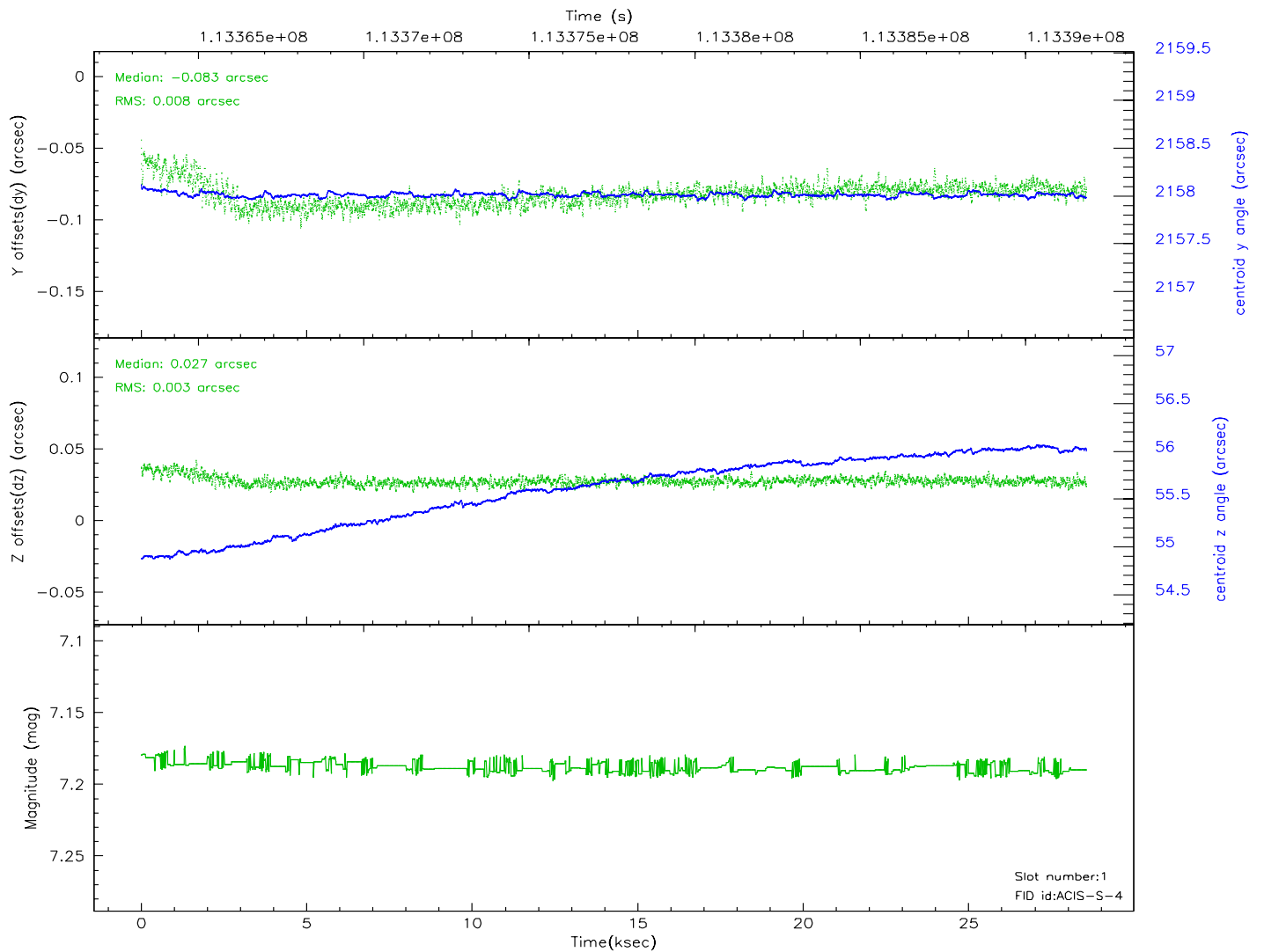
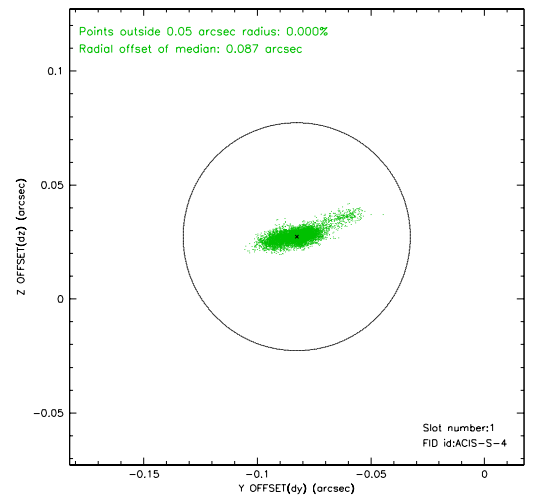
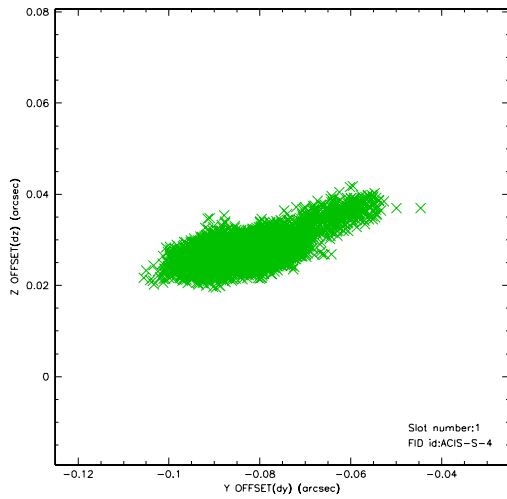


2.5 FID Slots

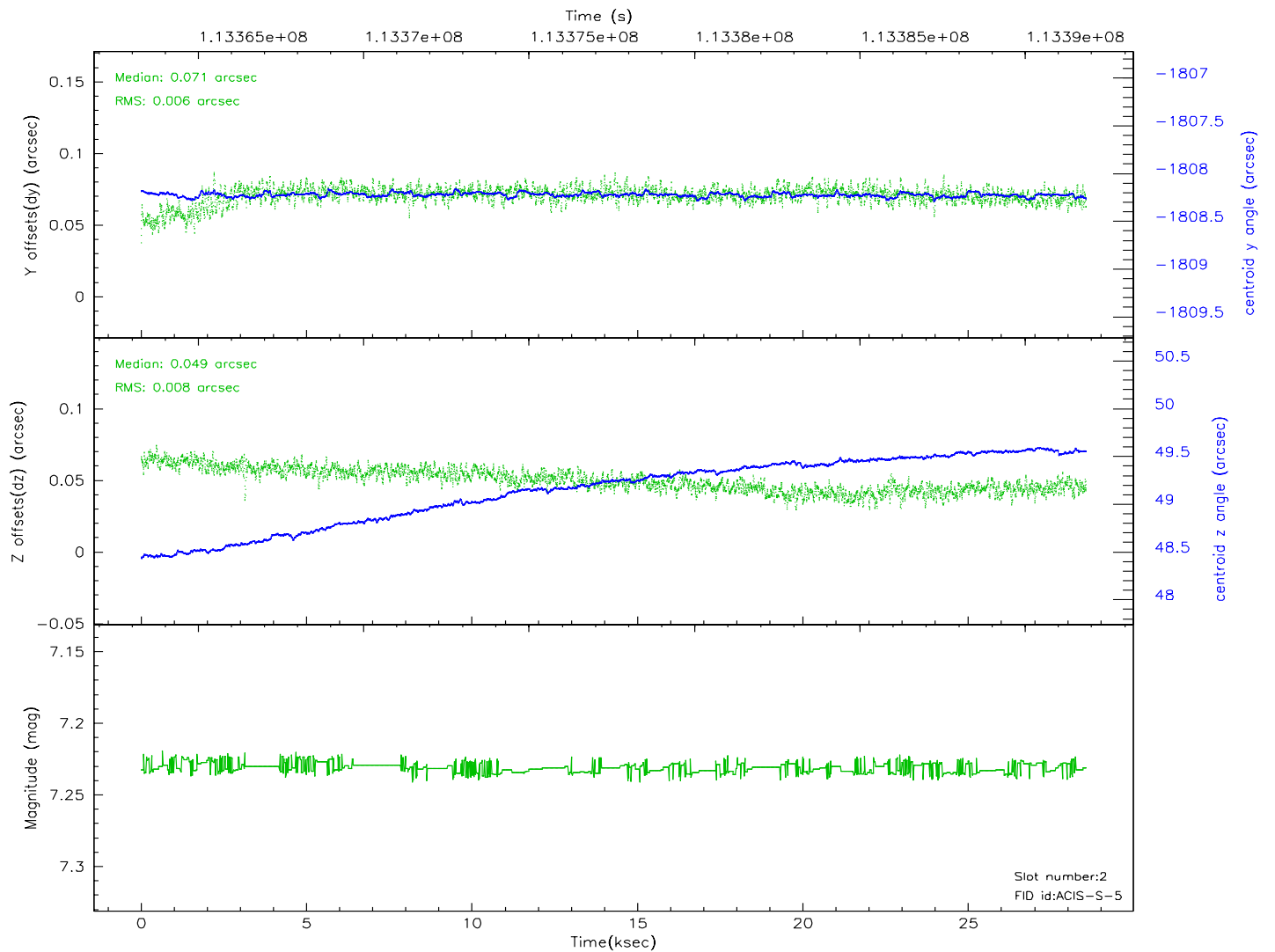
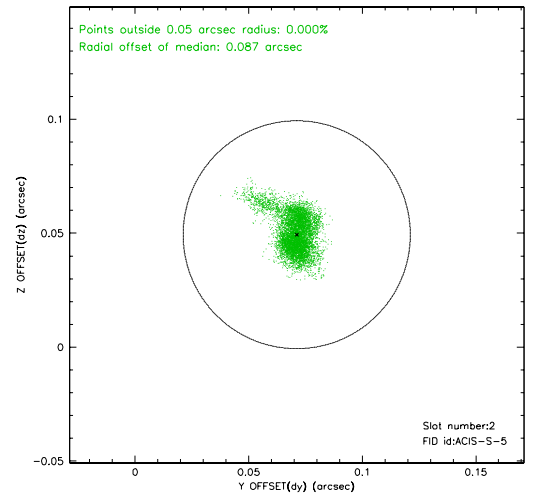
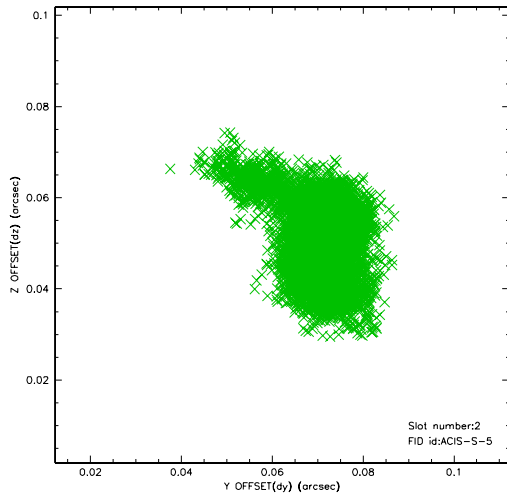
2.5.1 Slot 0



2.5.2 Slot 1

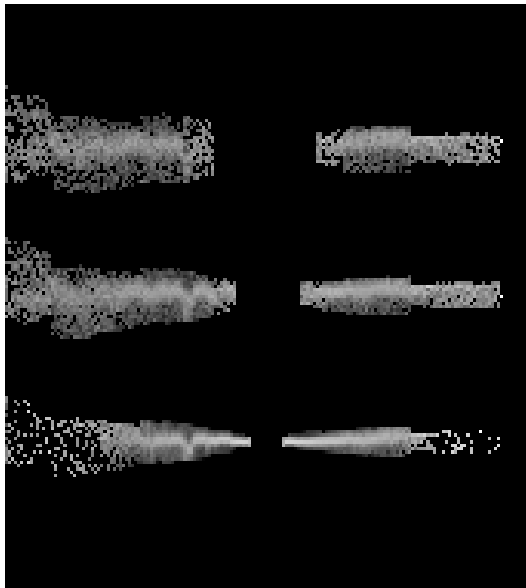


2.5.3 Slot 2

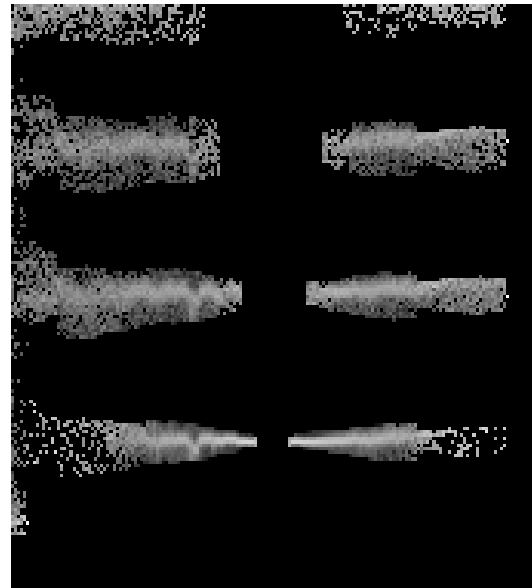


3 Gratings

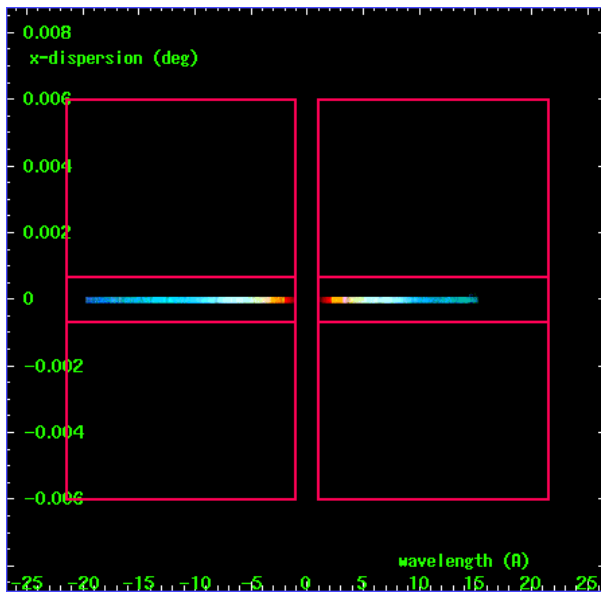
3.1 HEG Arm



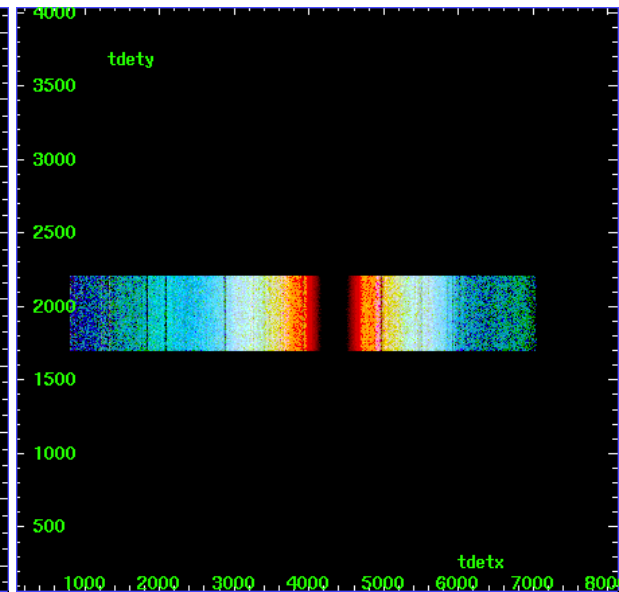
HEG Order Sort 123



HEG Order Sort ALL

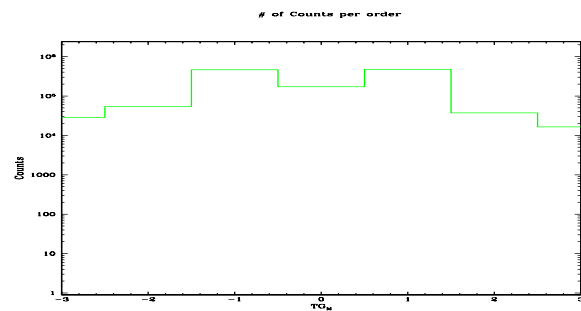


Spot Image HEG

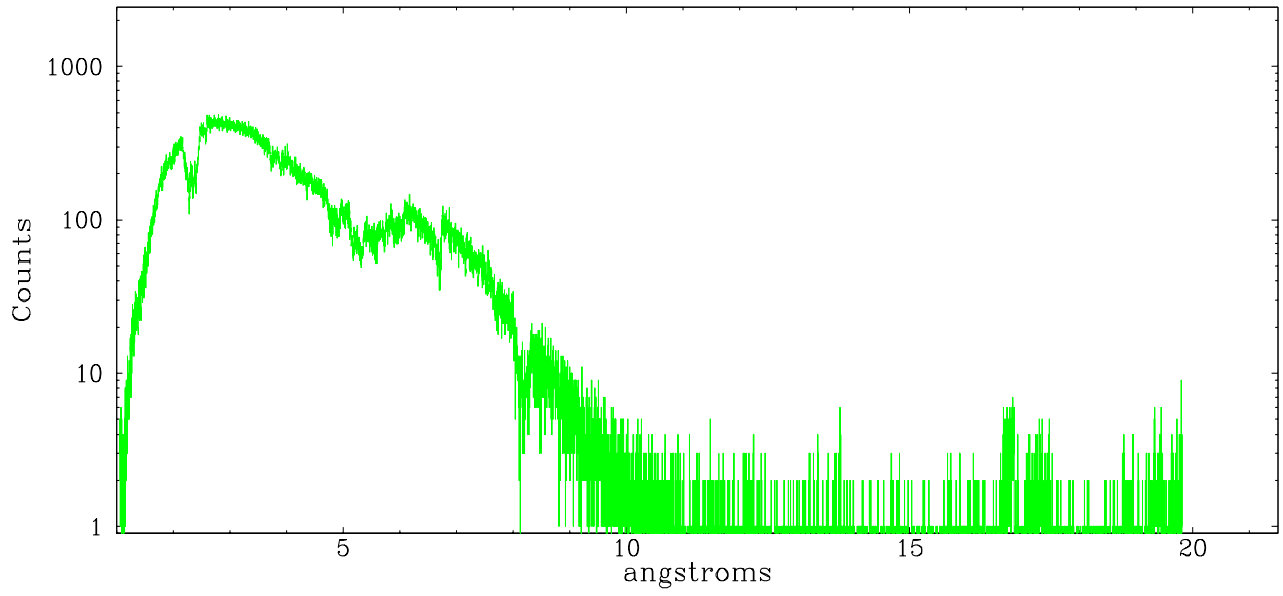


Full Detector HEG

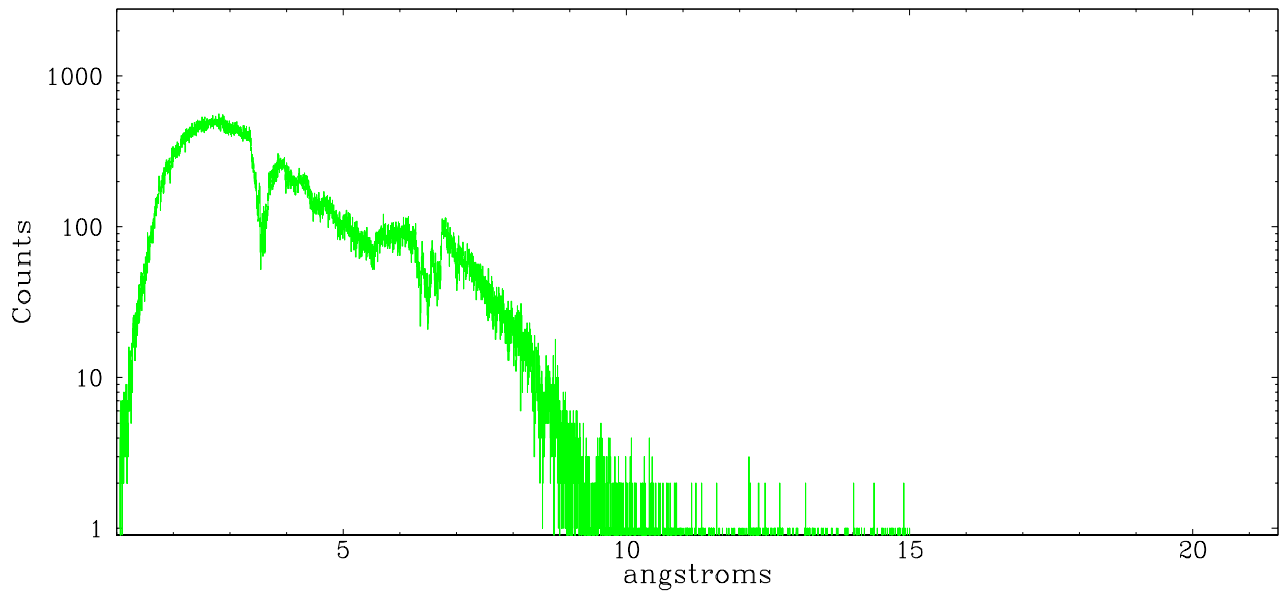
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	28476	54157	461646	171916	473064	37216	16479



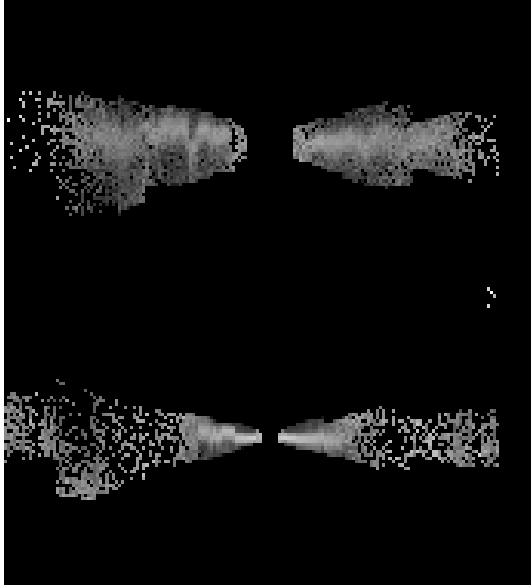
heg order -1



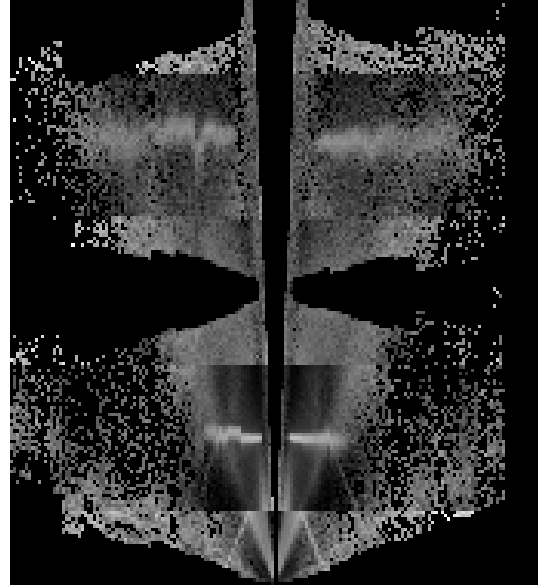
heg order +1



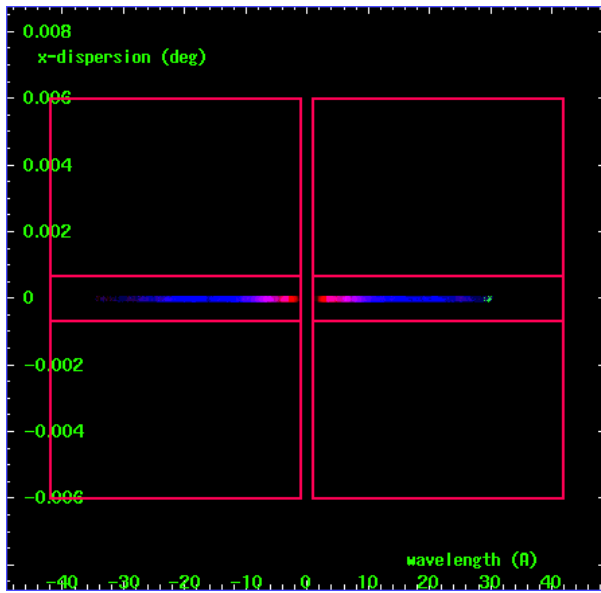
3.2 MEG Arm



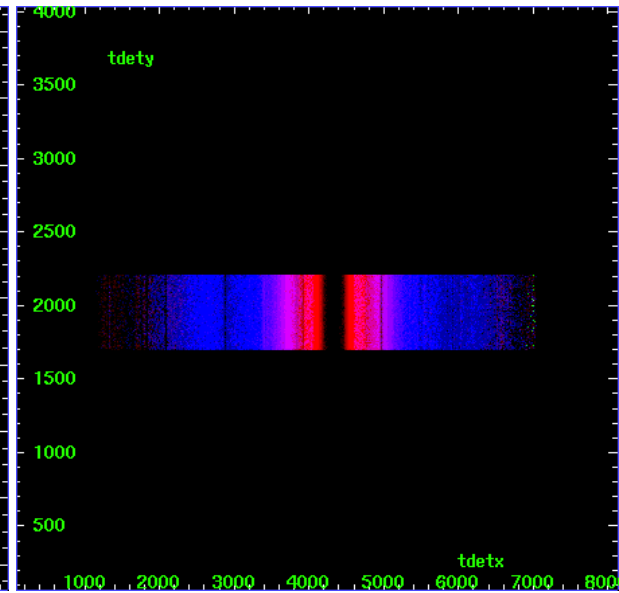
MEG Order Sort 123



MEG Order Sort ALL

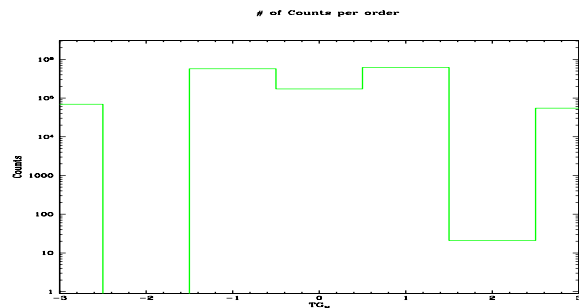


Spot Image MEG

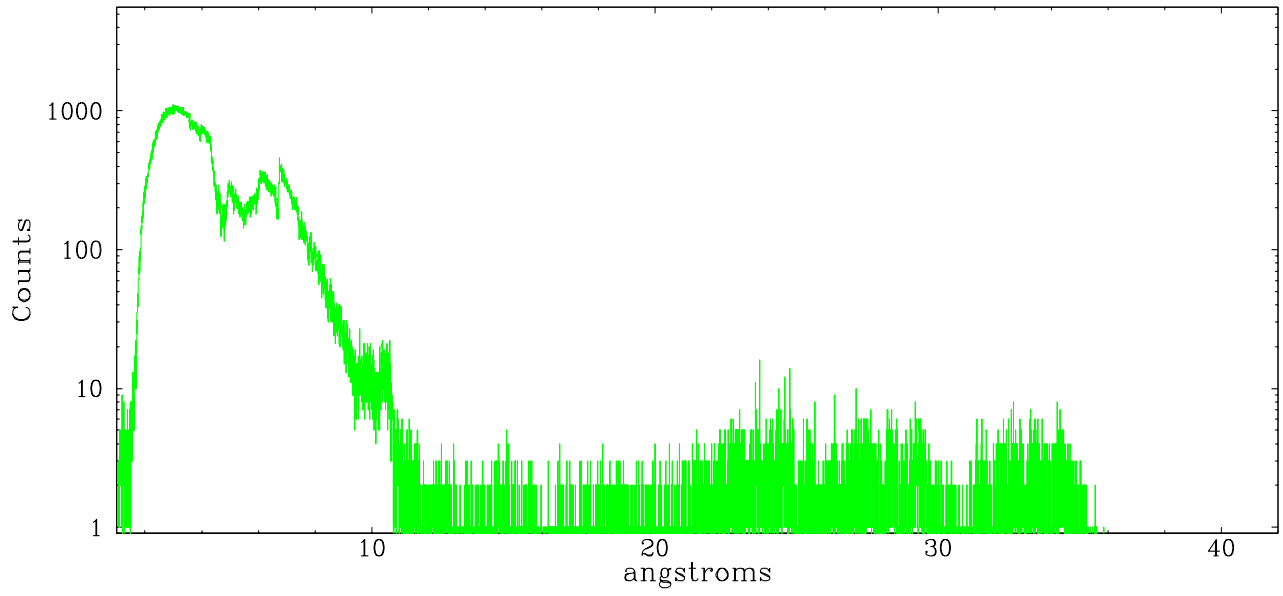


Full Detector MEG

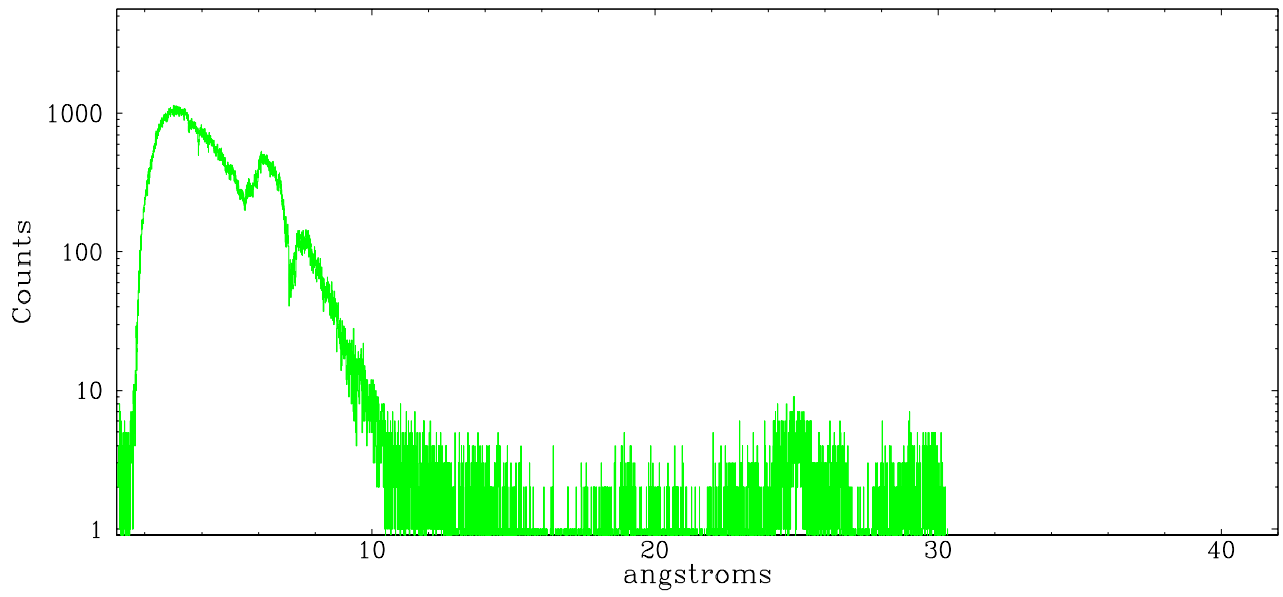
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	69284	0	569172	171916	613981	21	55084



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2007.01.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.557

A.2 Comments