

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1945 - L2 Version 001
Chandra X-Ray Center

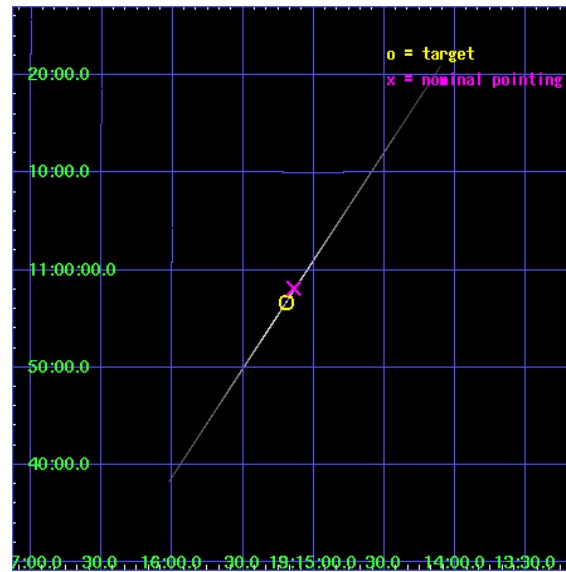
L2 Processing Date : Nov 29 2006

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1 Front

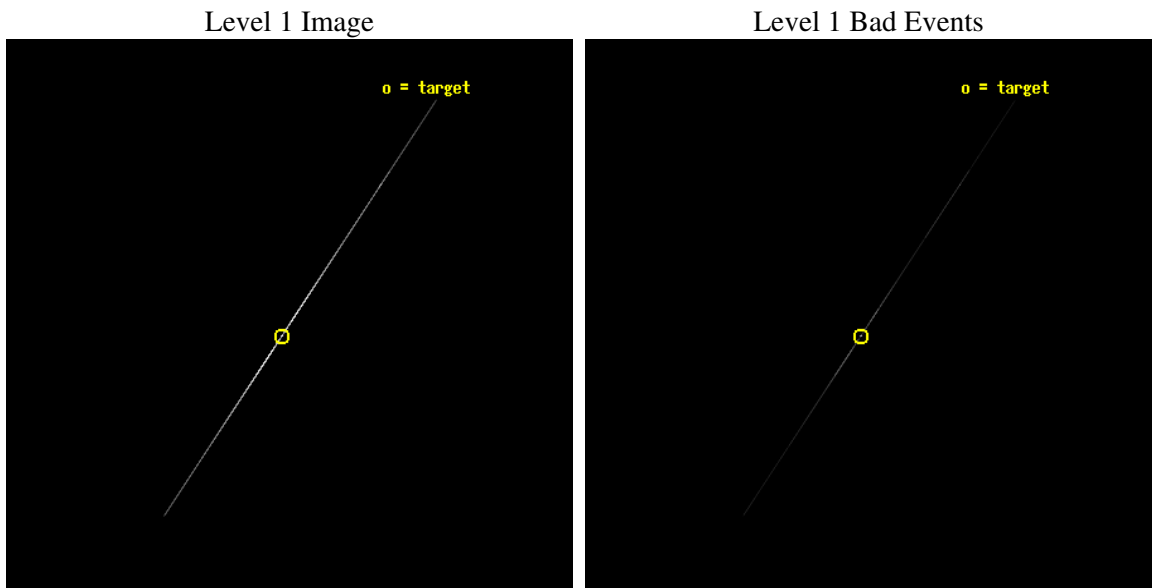
seq_num	400158
obs_id	1945
title	ACCRETION DISK STRUCTURE IN VARIOUS SPECTRAL STATES OF GRS 1915+105
observer	DR. RONALD REMILLARD
object	GRS 1915+105
ra_targ	288.798333
dec_targ	10.945806
ra_nom	288.78506910517
dec_nom	10.968704873583
roll_nom	123.52561119397
revision	4
ontime	30153.791895568
livetime	30036.003645976
ontime4	30155.25
ontime5	30155.25
ontime6	30155.25
ontime7	30153.791895568
ontime8	30155.25
ontime9	30155.25
l2events	7563817



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-21T21:37:17
revision	4

sched_exp_time	30000.000000
ontime	31146.191746116
ontime4	31149.110131294
ontime5	31147.650554001
ontime6	31147.650221109
ontime7	31146.191746116
ontime8	31149.108681113
ontime9	31149.108323589
l1events	8184633

2.1.3 Events

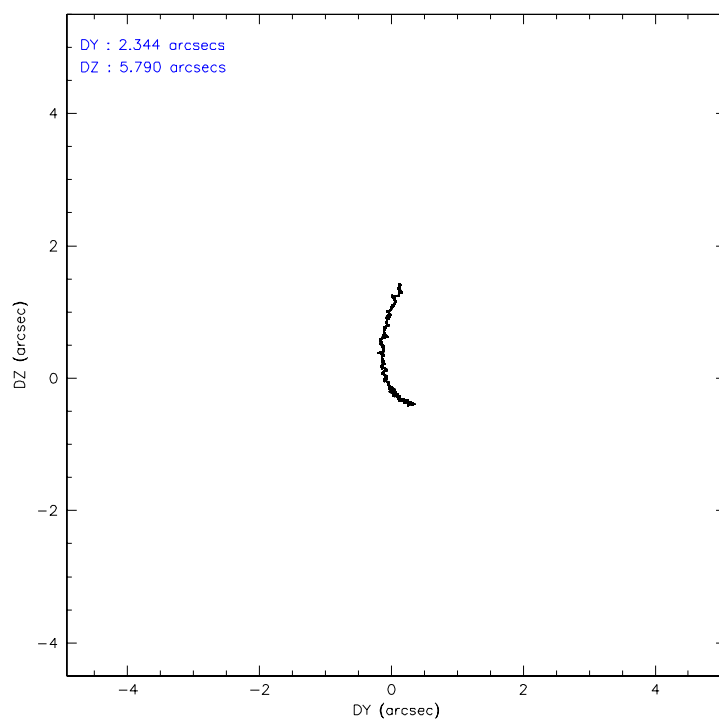
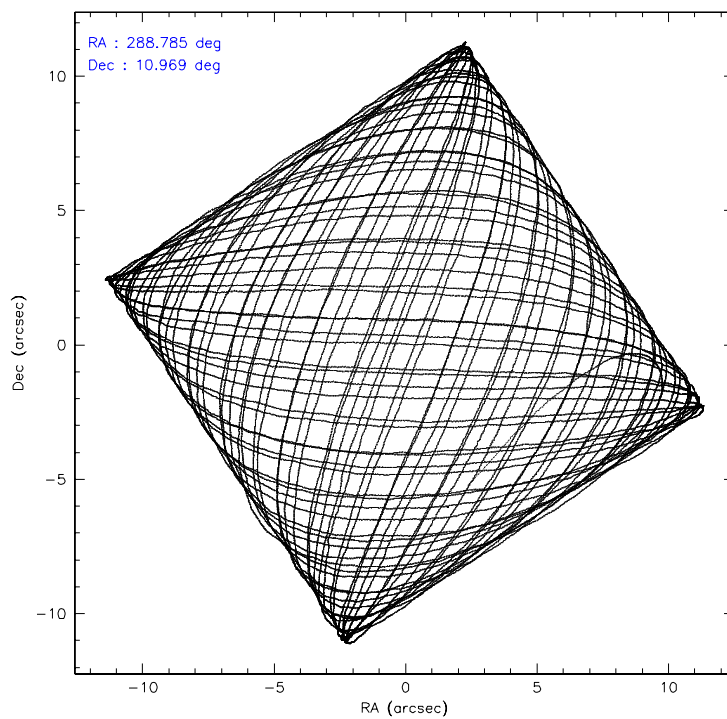
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	88956	376150	1685284	4896857	969699	167687
rejected events	8260	24178	25635	121196	22048	10487
rejected %	9%	6%	1%	2%	2%	6%

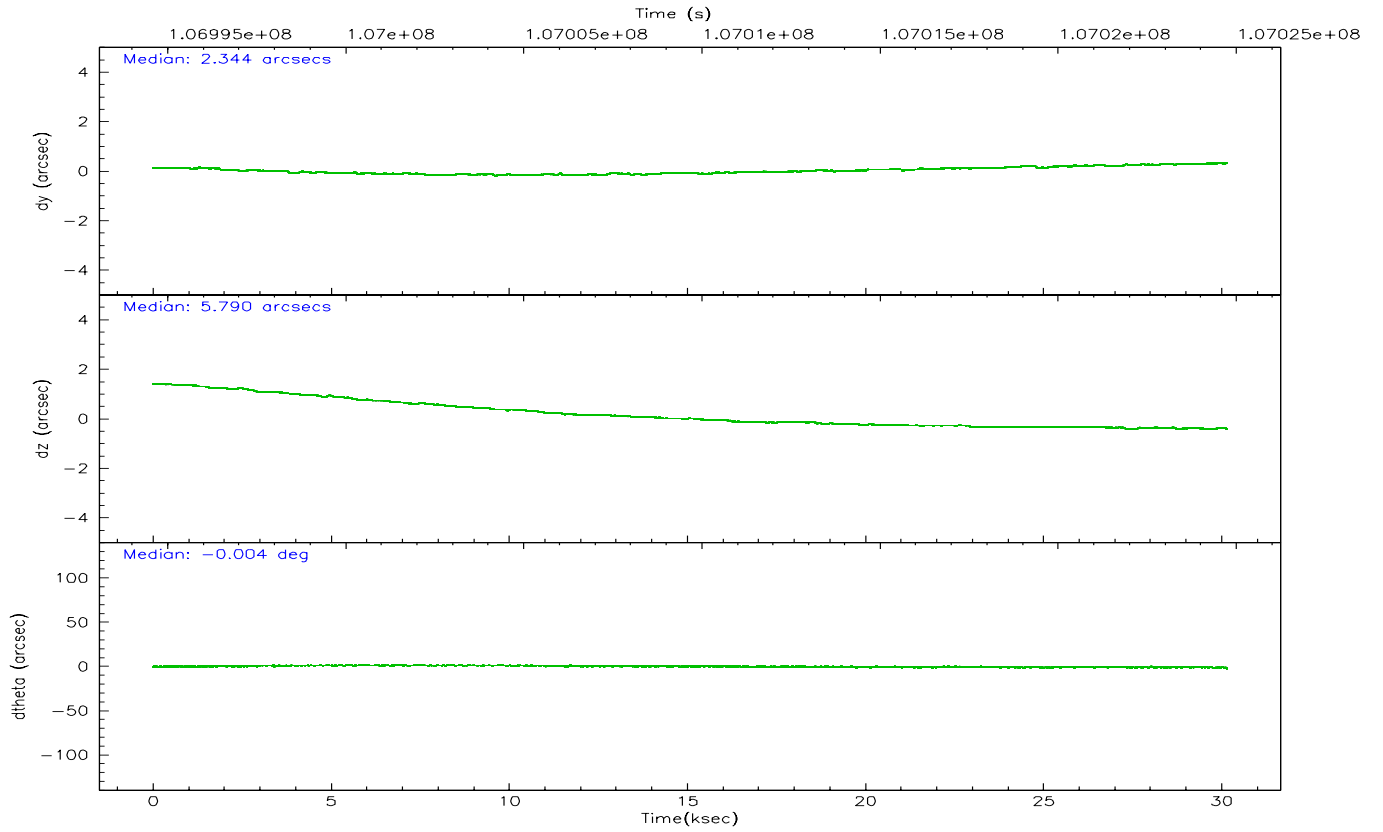
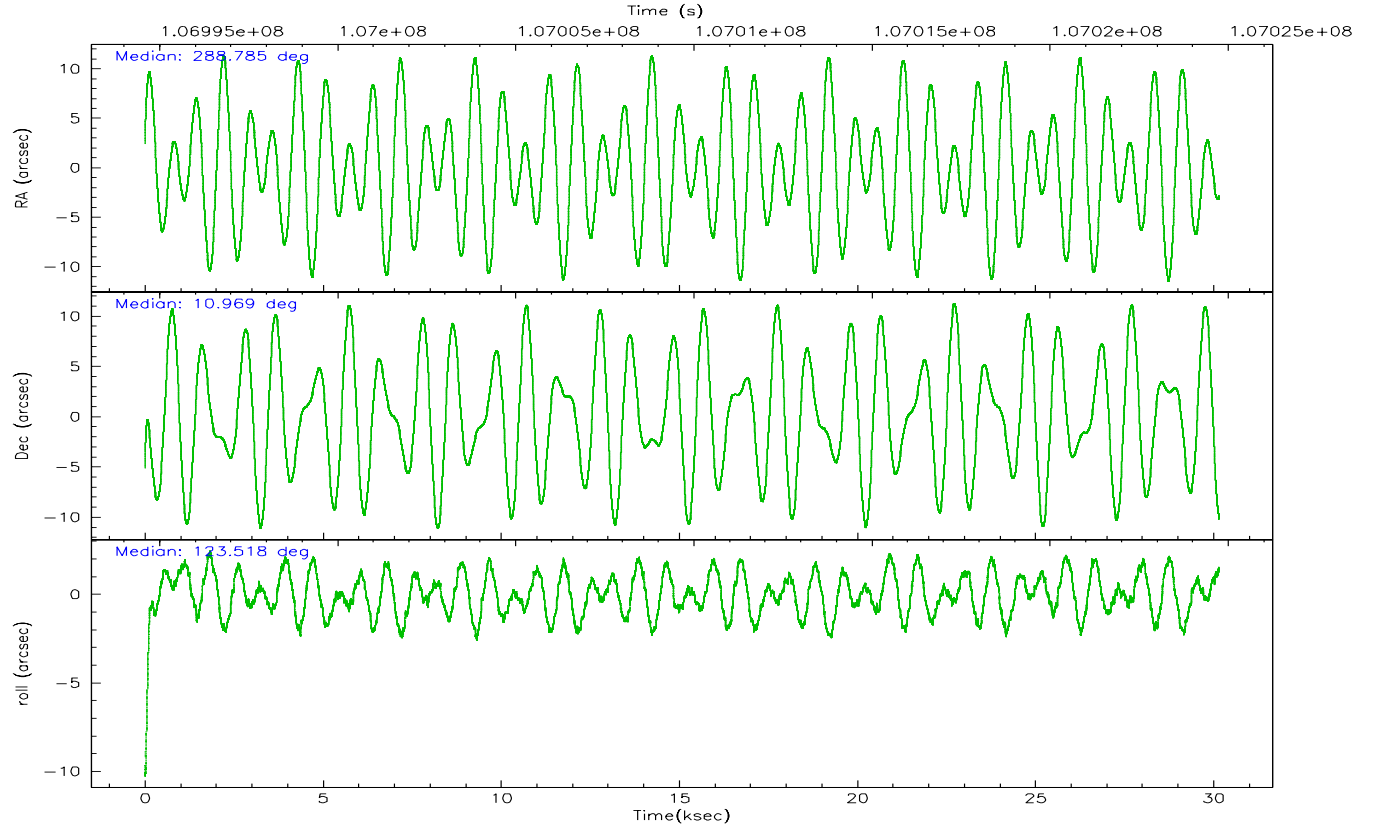
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	12252	71642	139837	693510	400139	45005
	13%	19%	8%	14%	41%	26%
grade 1 events	151	250	576	8255	1239	276
	0%	0%	0%	0%	0%	0%
grade 2 events	47180	128596	1315902	1381865	426329	81131
	53%	34%	78%	28%	43%	48%
grade 3 events	5696	9795	12546	401519	27962	7087
	6%	2%	0%	8%	2%	4%
grade 4 events	5934	9656	12423	399851	27490	7555
	6%	2%	0%	8%	2%	4%
grade 5 events	6747	17411	15197	84482	14147	8429
	7%	4%	0%	1%	1%	5%
grade 6 events	10996	138800	188803	1927375	72393	18204
	12%	36%	11%	39%	7%	10%
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	288.810073	288.7850691051668	Subarray requested	NONE	NONE
Pointing Dec	10.956782	10.96870487358281	Alternating exposures requested	N	N
Pointing Roll	123.364232	123.5256111939724	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	-184.0277655517795			
SIM translation stage offset (mm)	-6.1	-6.104757031228274			
Observation start time	106994749.184000	106993601.70151			
Observation start date	2001-05-23T08:44:45	2001-05-23T08:26:41			
Observation end time	107024749.184000	107025472.54025			
Observation end date	2001-05-23T17:04:45	2001-05-23T17:17:52			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



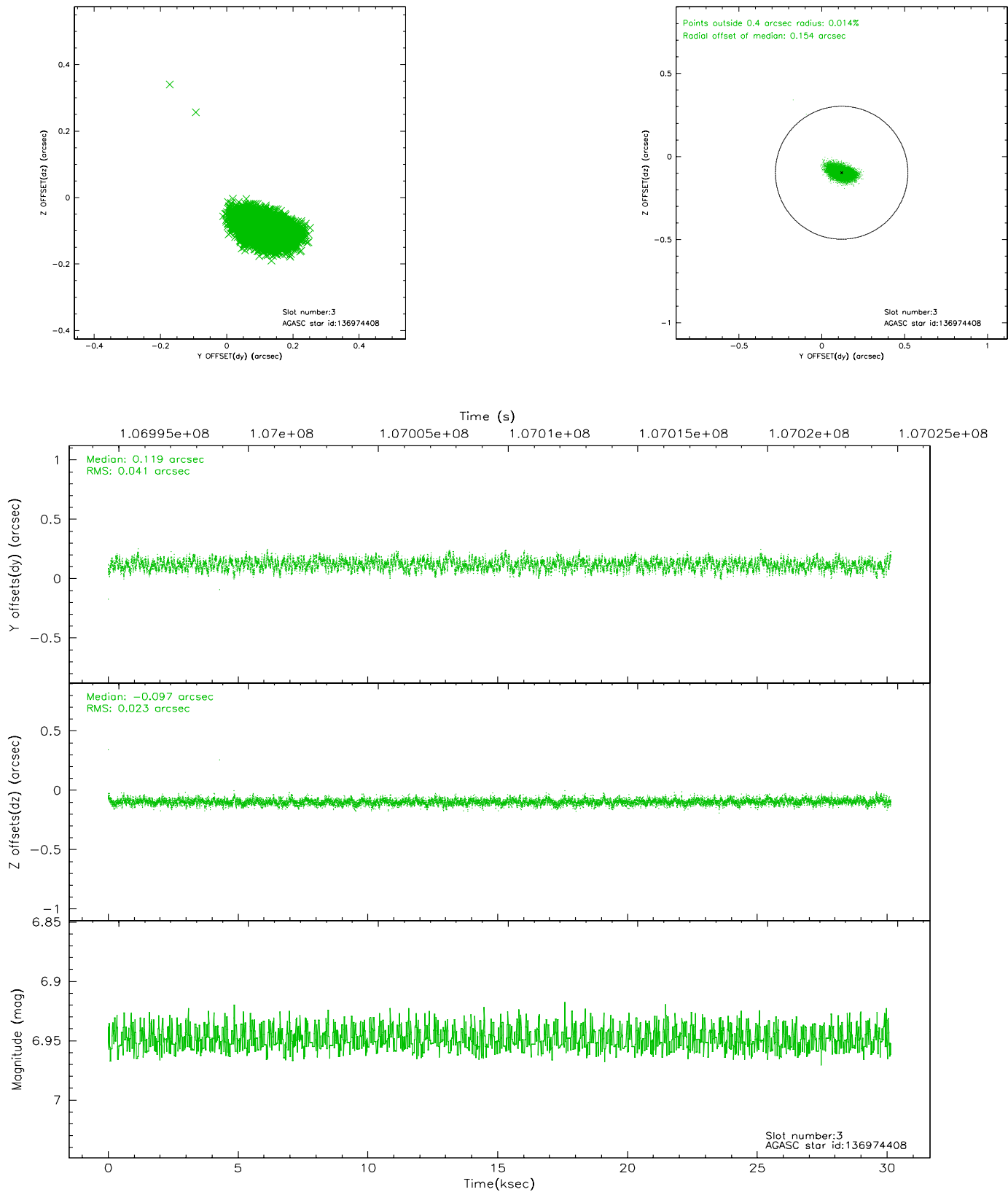


Slot Statistics

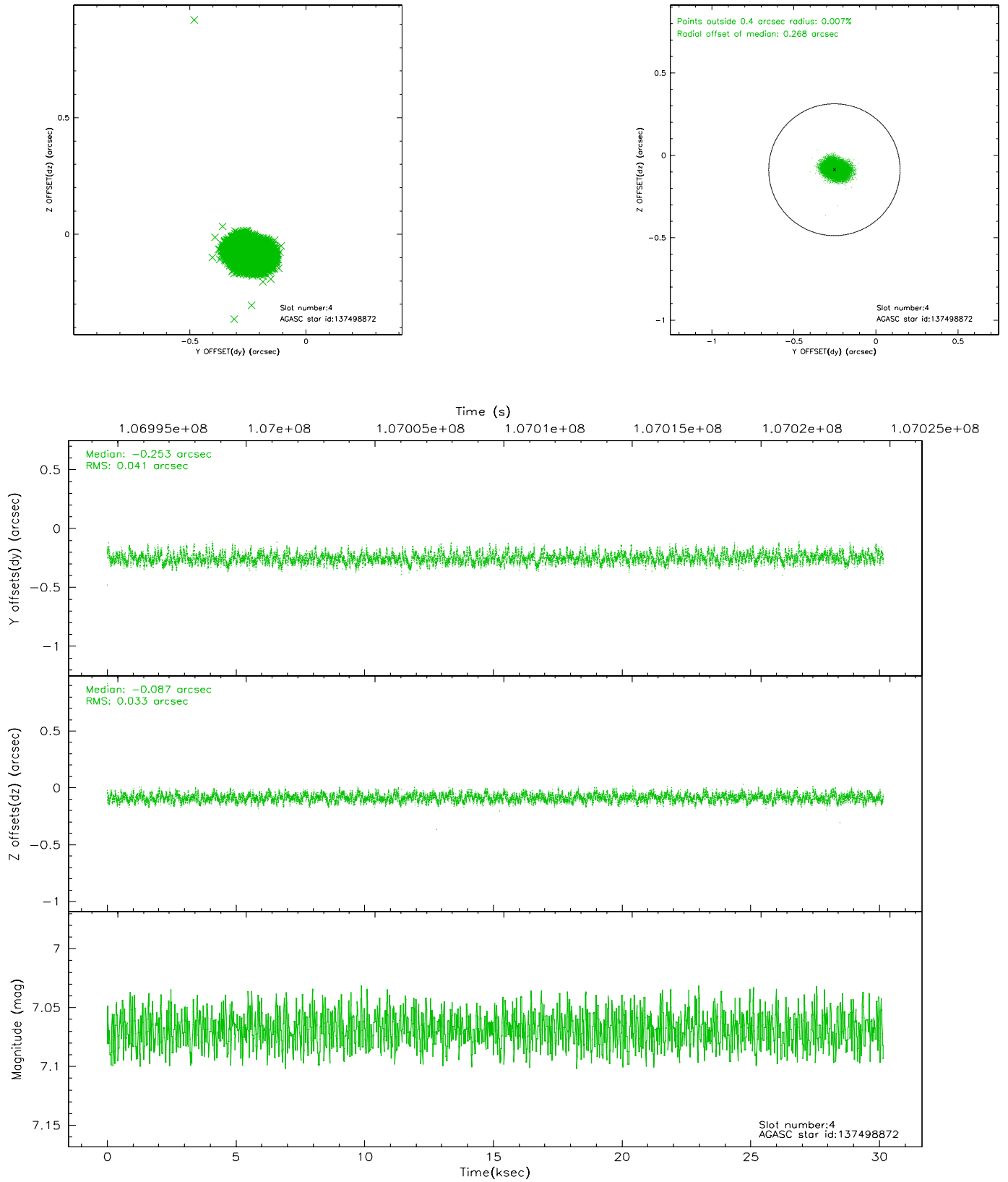
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	7355	-0.031	-0.080	0.015	0.021	0.000000	0.000000	-754.60	-1853.03
1	FID	ACIS-S-4	7.19	7355	-0.065	0.037	0.009	0.015	0.000000	0.000000	2158.62	55.46
2	FID	ACIS-S-5	7.23	7355	0.064	0.052	0.013	0.019	0.000000	0.000000	-1807.25	49.25
3	GUIDE	136974408	6.95	14712	0.119	-0.097	0.049	0.083	288.806802	10.212409	-2231.81	1483.18
4	GUIDE	137498872	7.07	14711	-0.253	-0.087	0.056	0.089	288.350862	11.344926	2058.99	584.95
5	GUIDE	136974776	7.81	14711	0.154	-0.040	0.058	0.095	288.742109	10.409402	-1513.31	1284.61
6	GUIDE	137497048	7.98	14709	-0.128	0.148	0.049	0.082	288.896055	11.554718	1630.71	-1436.74
7	GUIDE	137102976	8.51	14708	0.111	0.077	0.066	0.104	289.193436	10.979652	-675.25	-1177.35

2.4 Star Slots

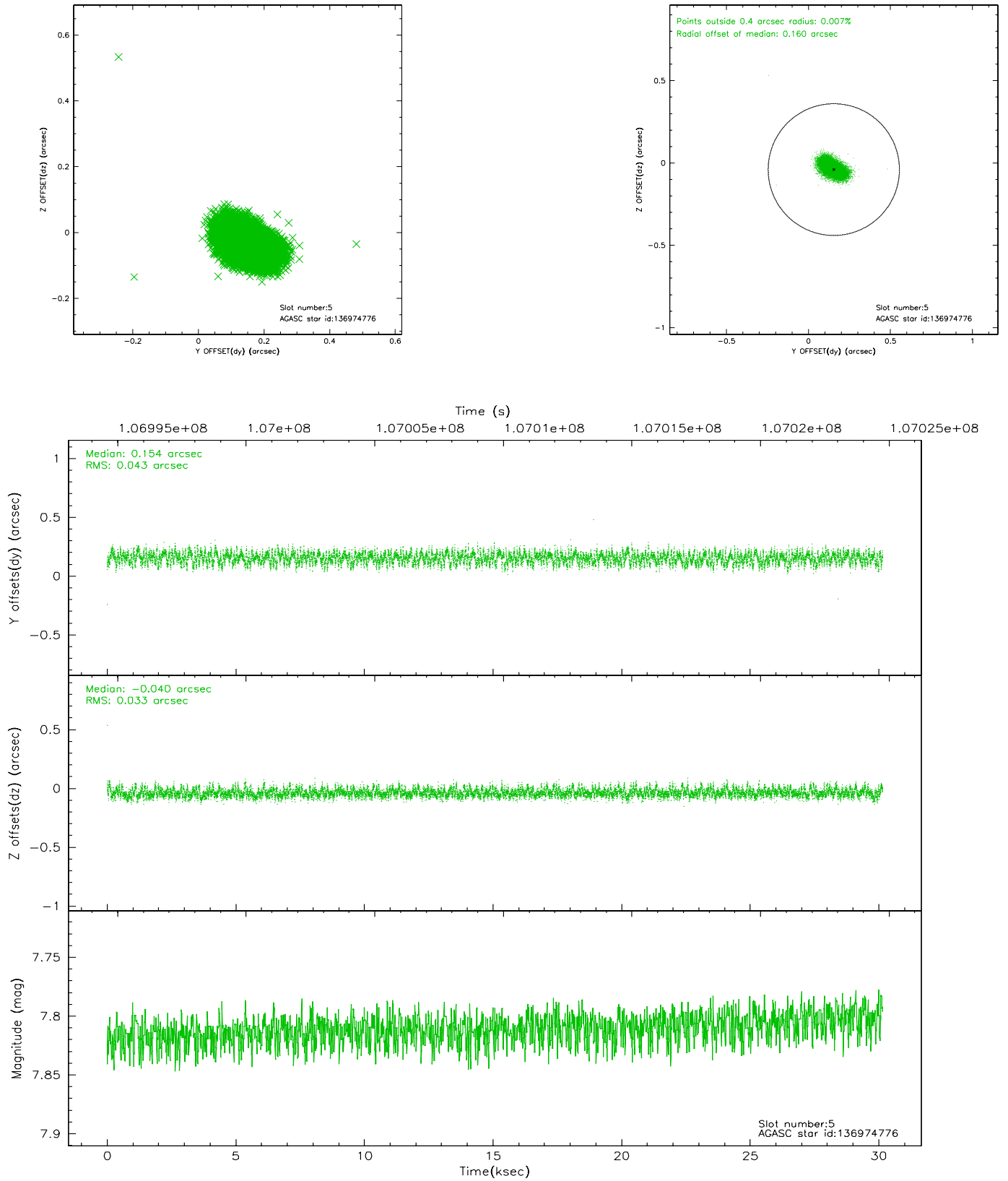
2.4.1 Slot 3



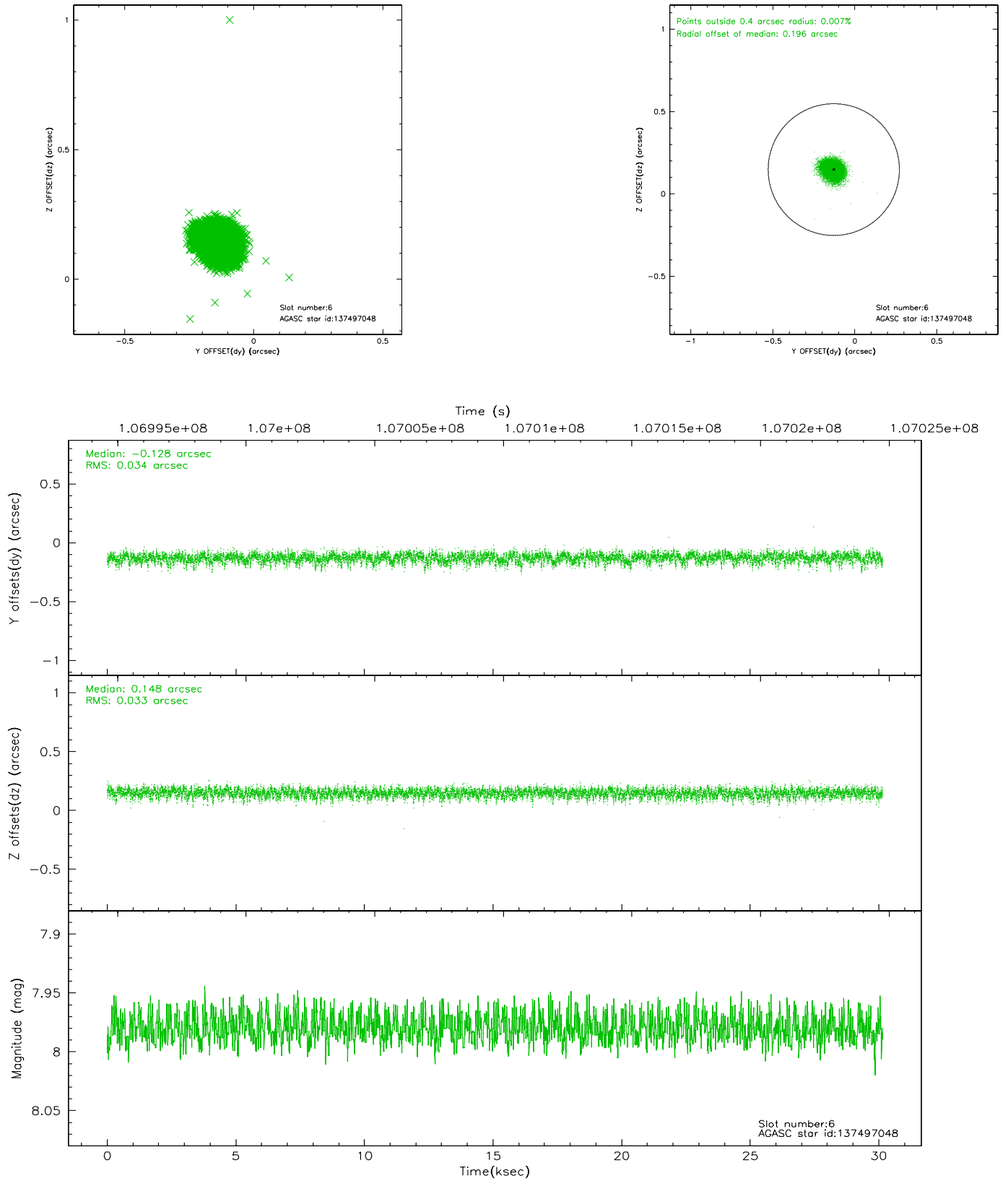
2.4.2 Slot 4



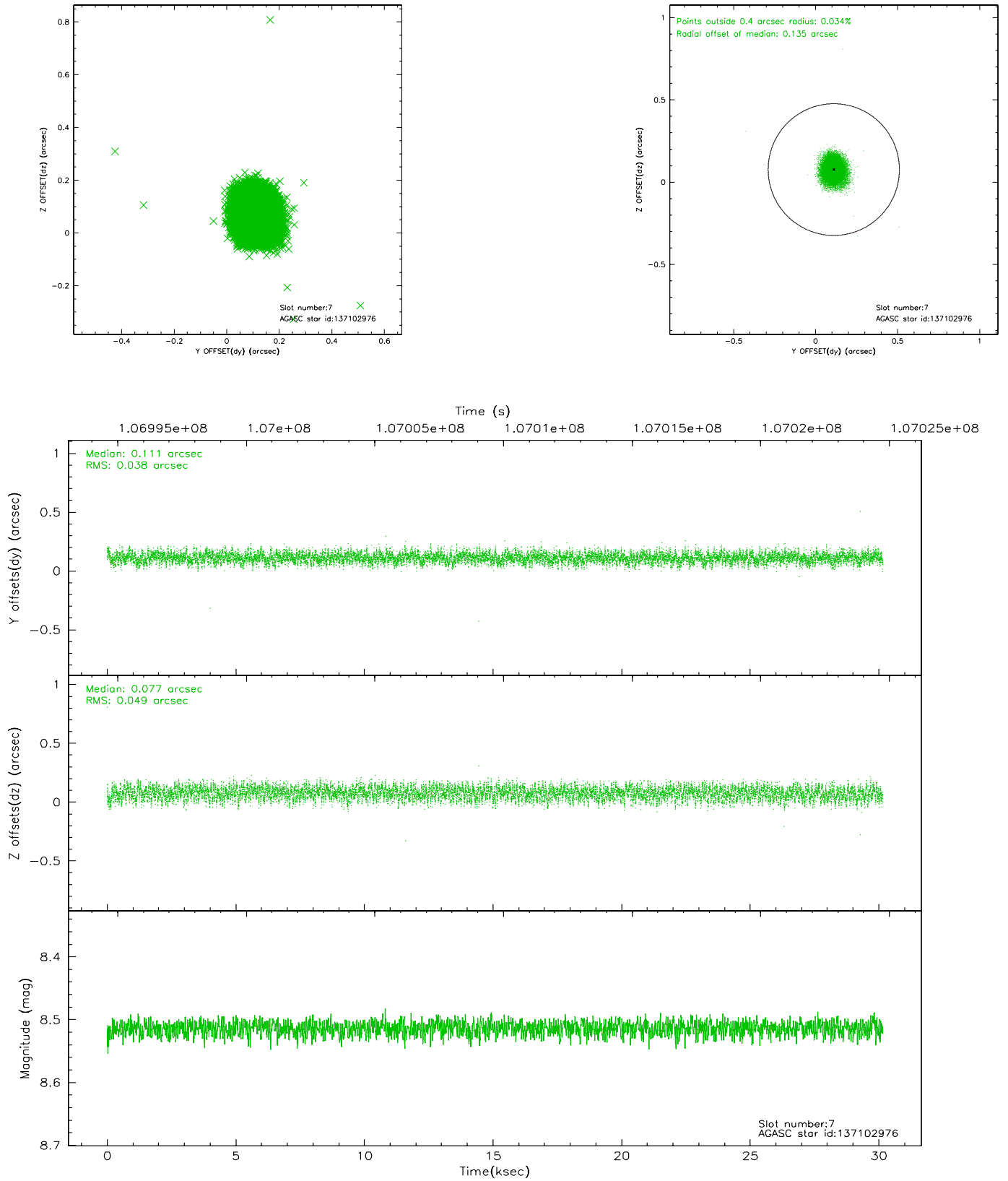
2.4.3 Slot 5



2.4.4 Slot 6

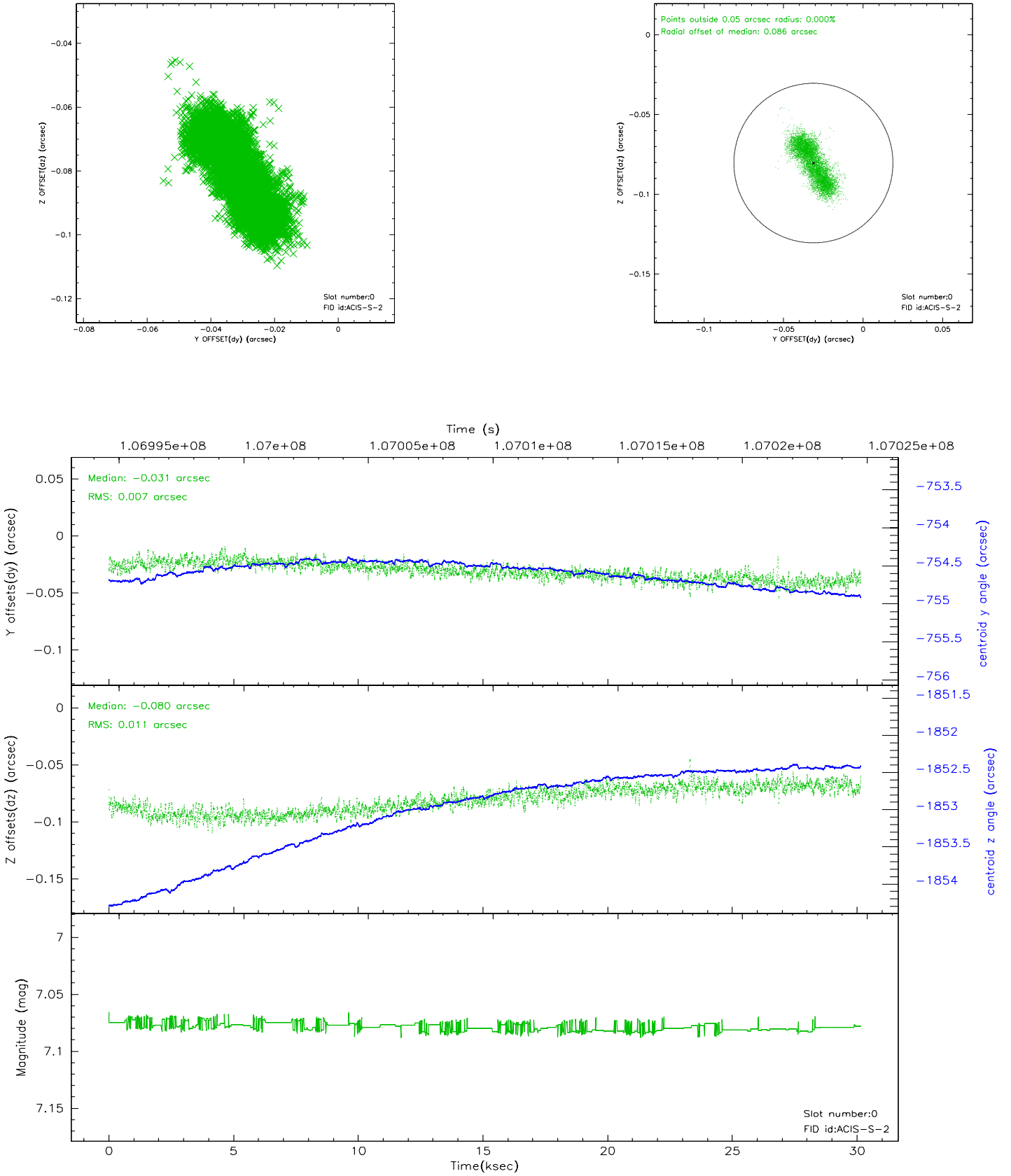


2.4.5 Slot 7

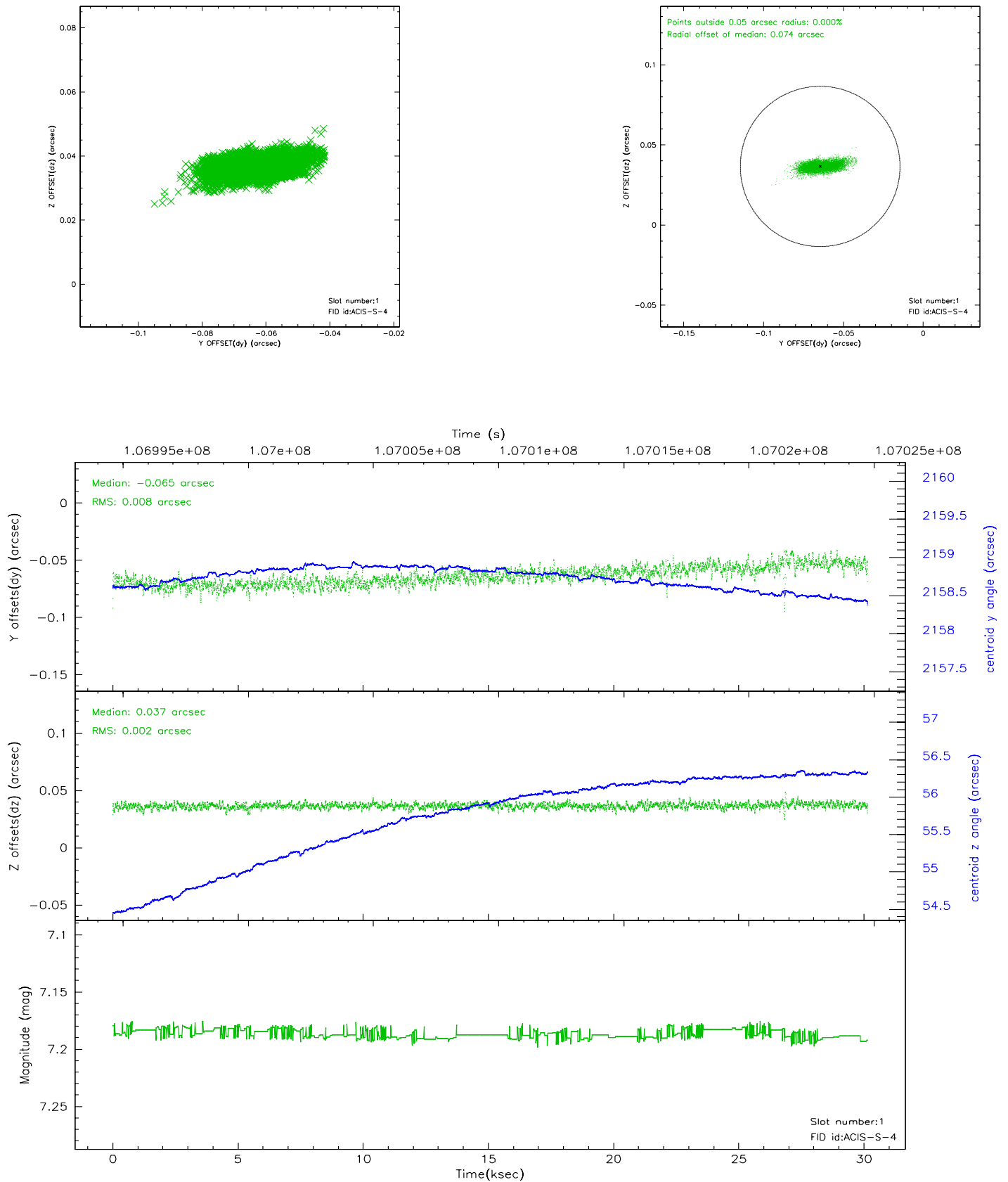


2.5 FID Slots

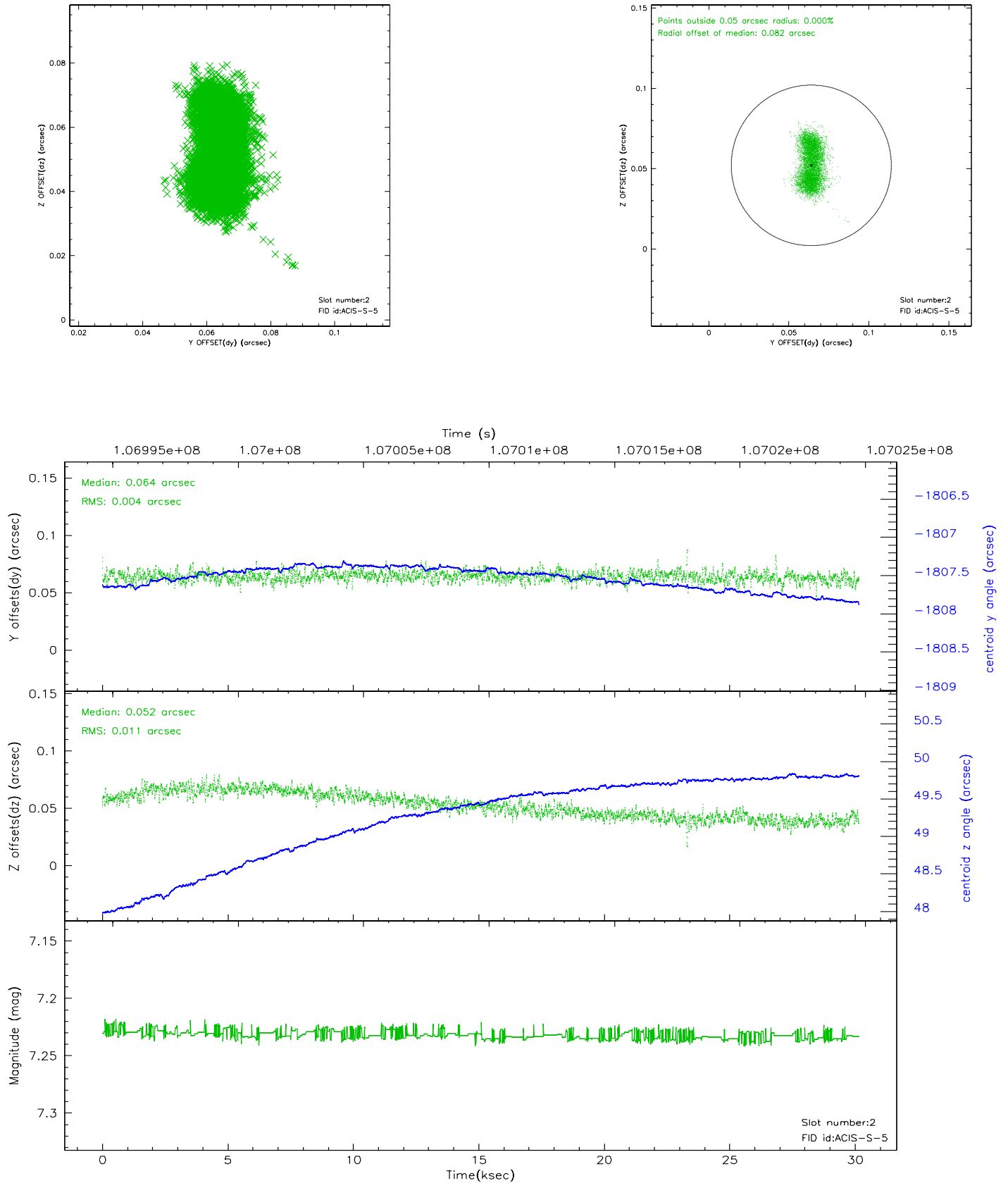
2.5.1 Slot 0



2.5.2 Slot 1

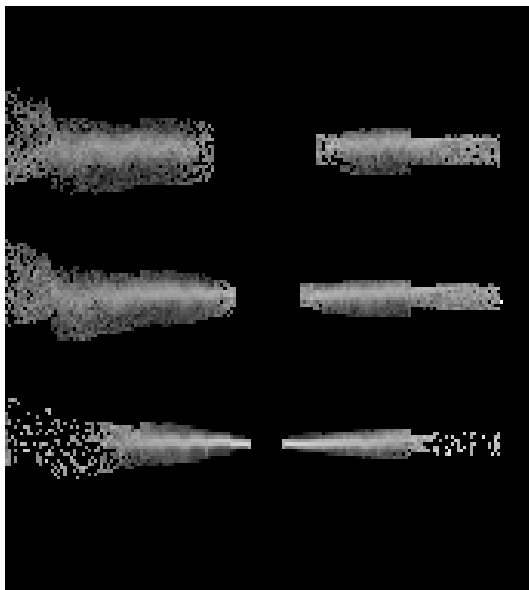


2.5.3 Slot 2



3 Gratings

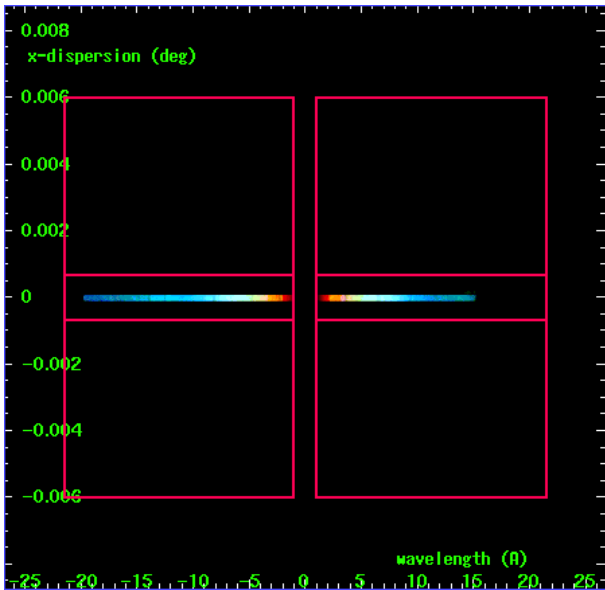
3.1 HEG Arm



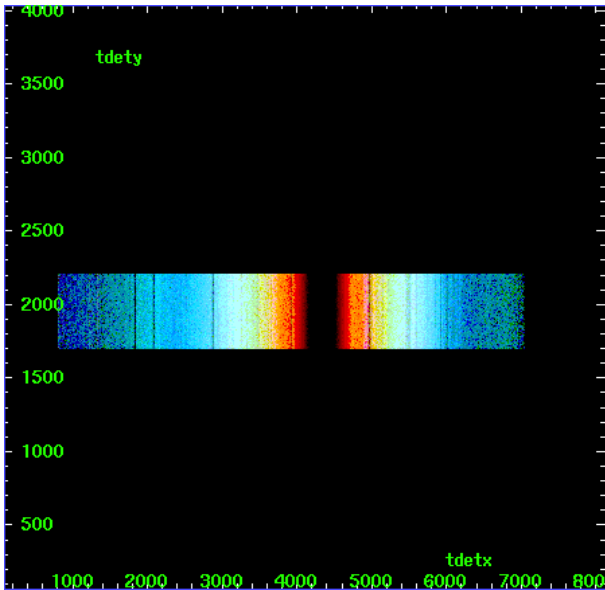
HEG Order Sort 123



HEG Order Sort ALL

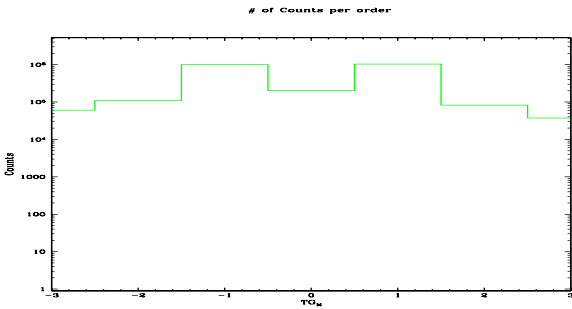


Spot Image HEG

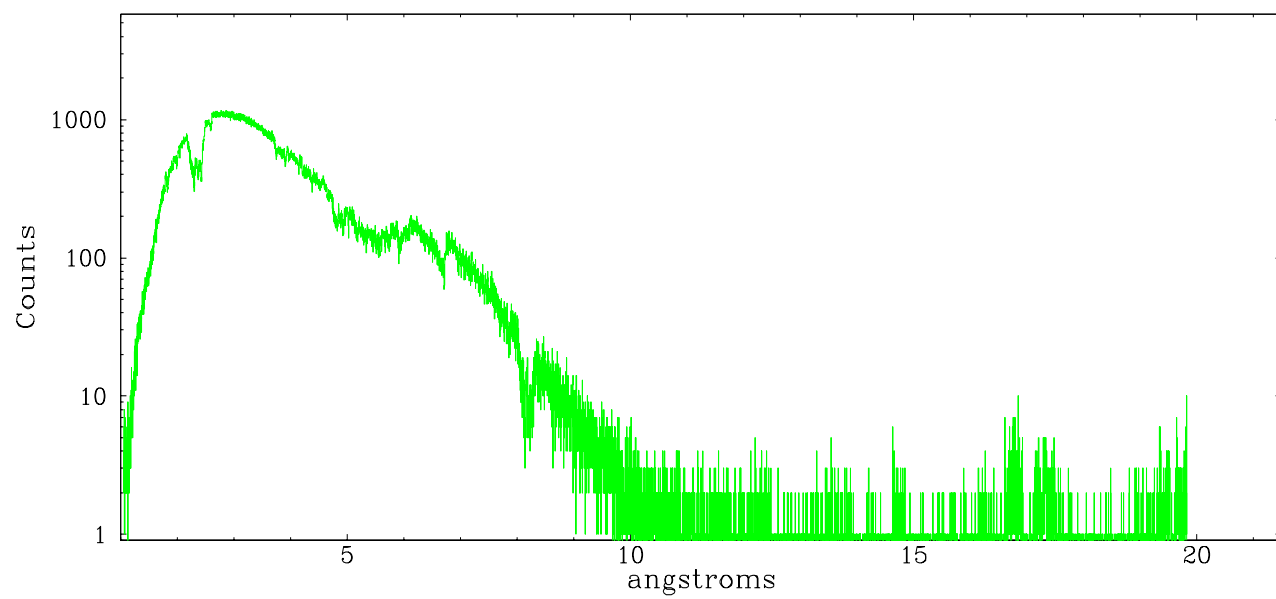


Full Detector HEG

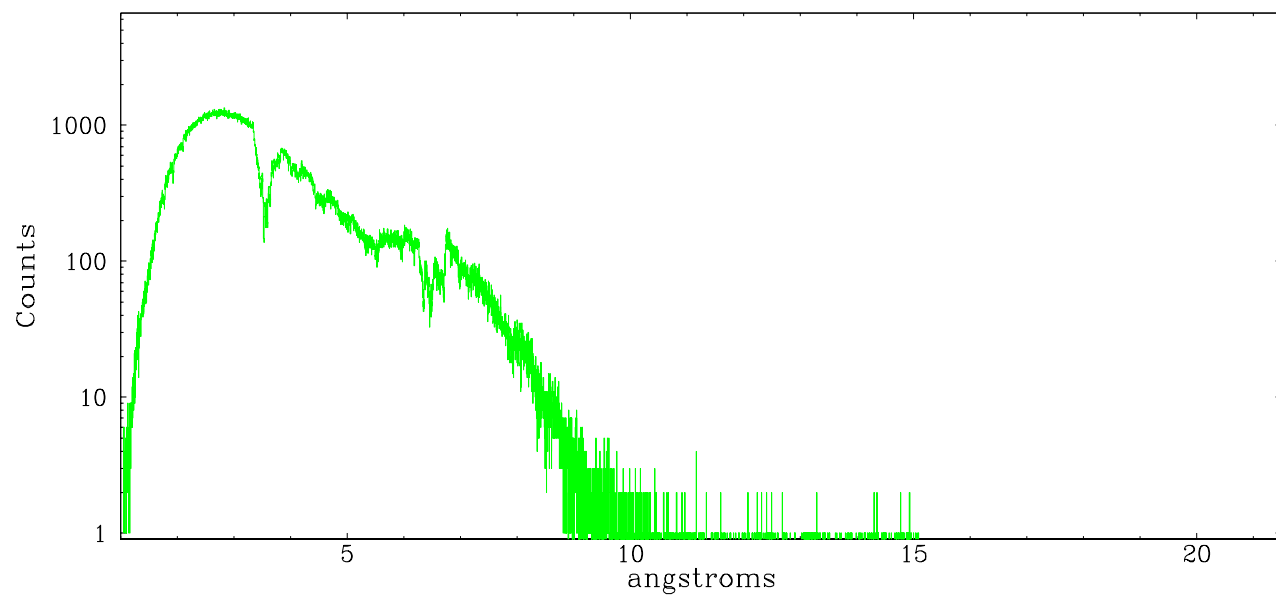
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	60368	108791	1002185	201390	1038754	82234	37376



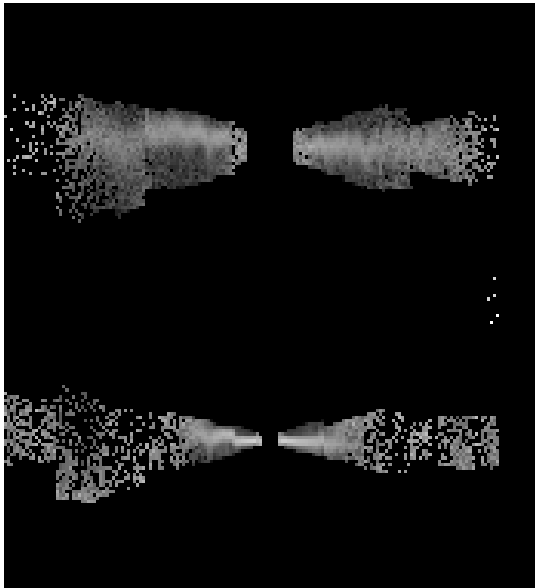
heg order -1



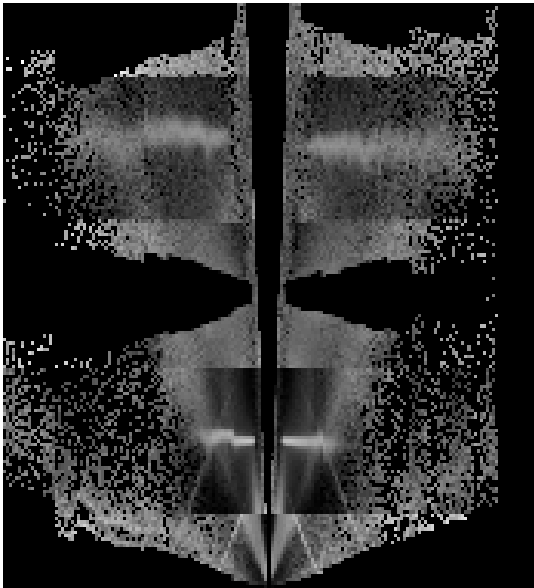
heg order +1



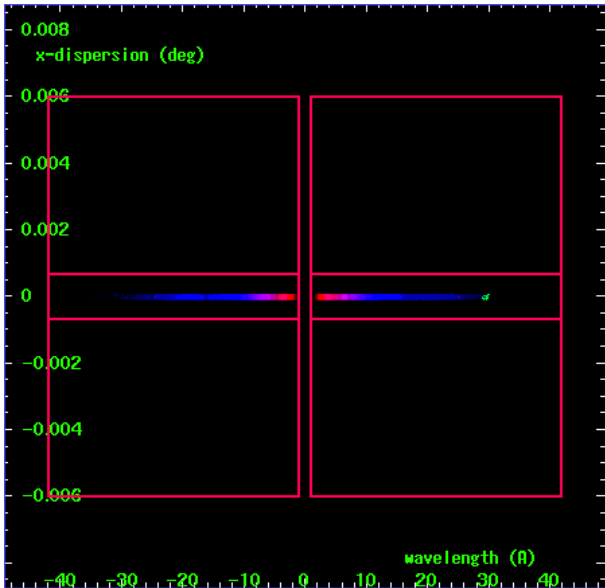
3.2 MEG Arm



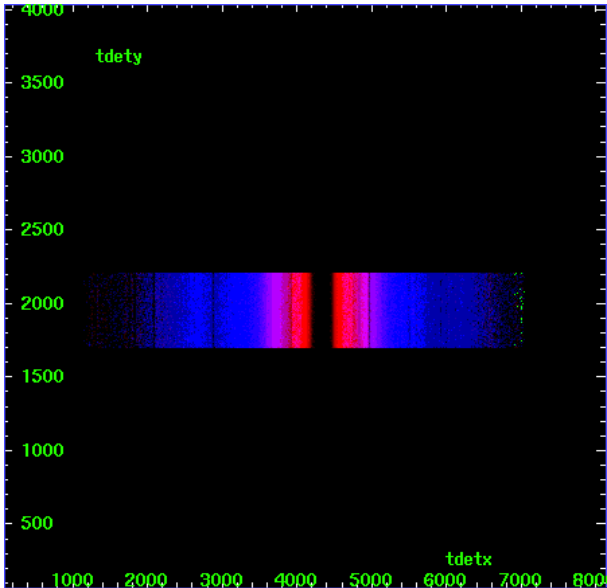
MEG Order Sort 123



MEG Order Sort ALL

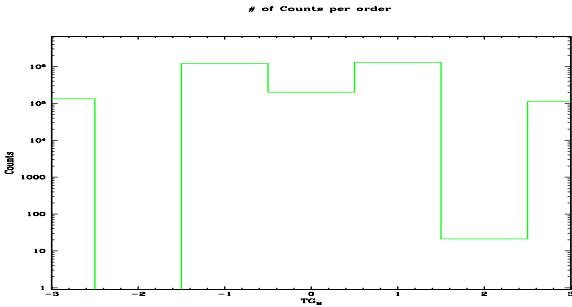


Spot Image MEG

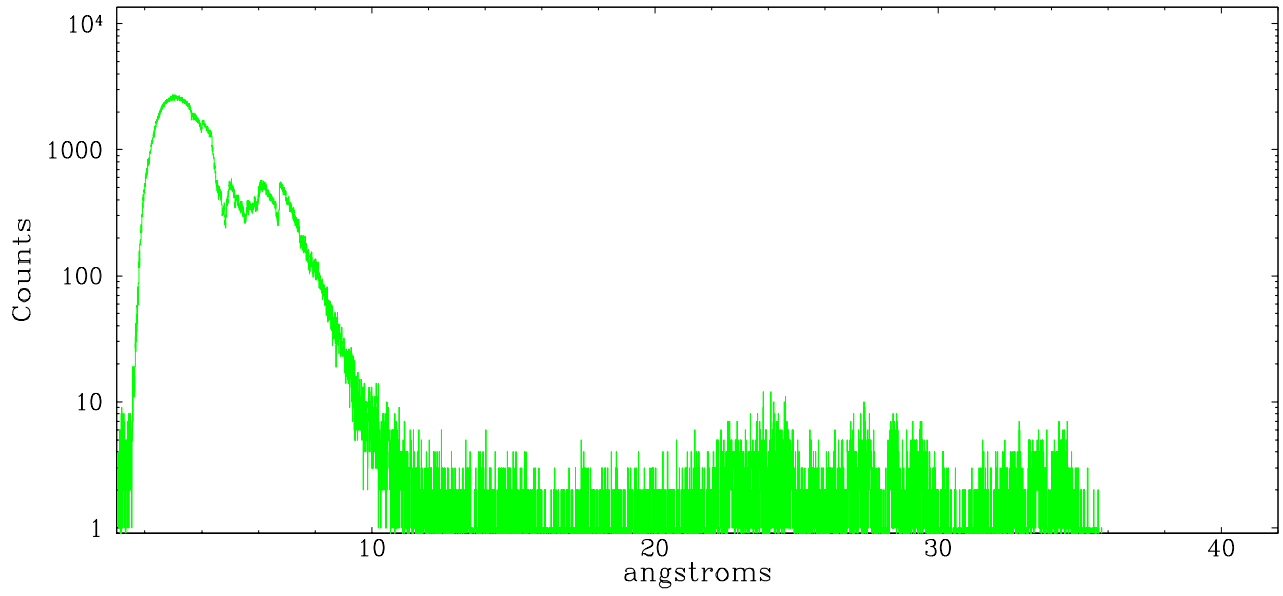


Full Detector MEG

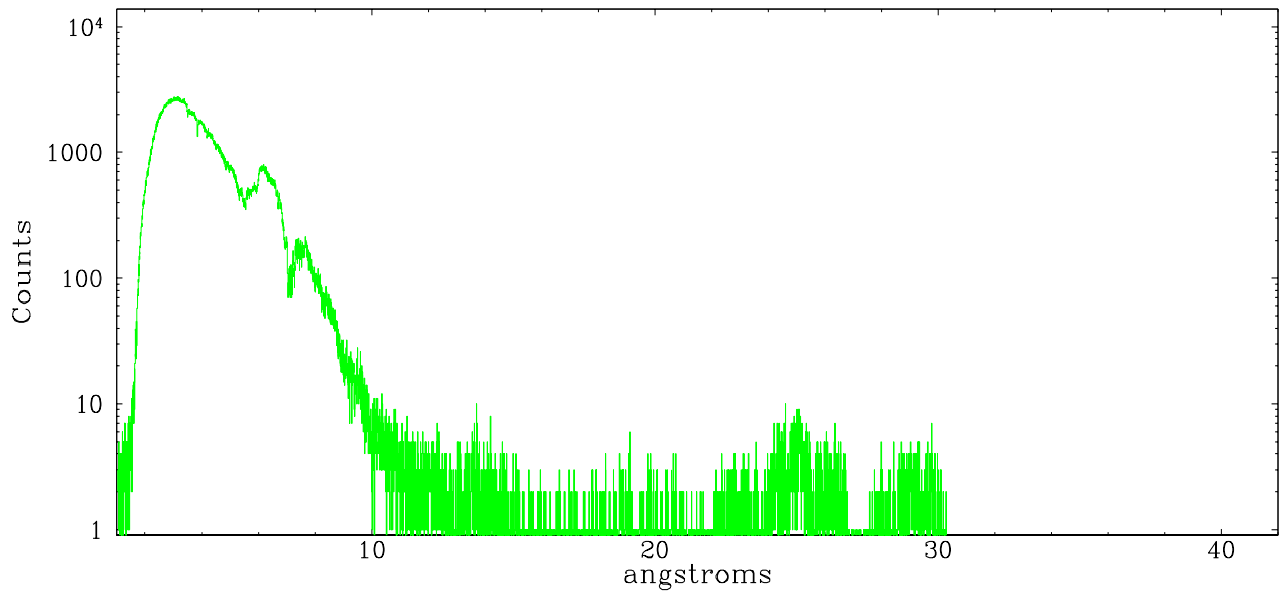
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	133177	0	1210095	201390	1307683	21	112154



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.155

A.2 Comments