

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 3805 - L2 Version 001
Chandra X-Ray Center

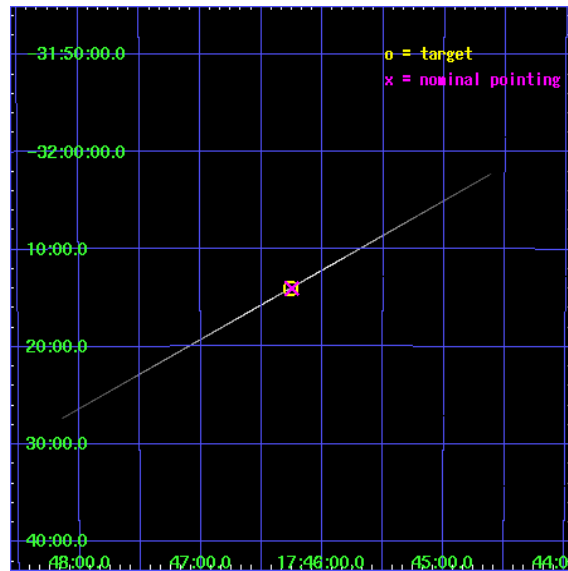
L2 Processing Date : Aug 9 2006

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1 Front

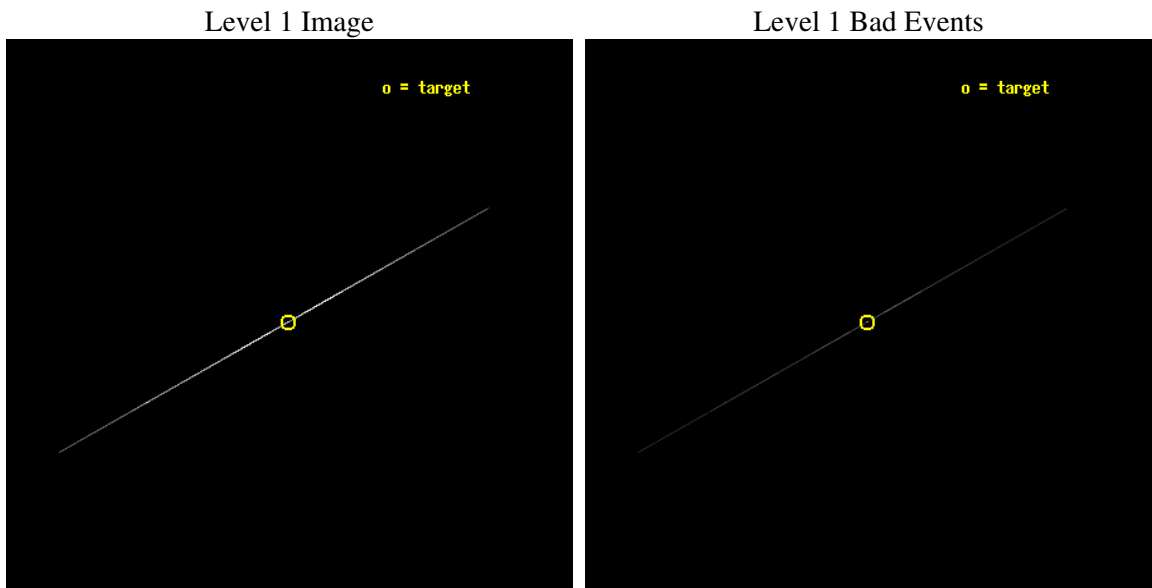
seq_num	400292
obs_id	3805
title	DIAGNOSING THE ACCRETION FLOW GEOMETRY OF A GALACTIC BLACK HOLE IN OUTBURST WITH CHANDRA
observer	Prof. Walter Lewin
object	H1743-322
ra_targ	266.565042
dec_targ	-32.2335
ra_nom	266.56253826189
dec_nom	-32.234216275712
roll_nom	330.65051468276
revision	3
ontime	50064.5
livetime	49868.935546875
ontime4	50064.5
ontime5	50064.5
ontime6	50064.5
ontime7	50064.5
ontime8	50064.5
ontime9	50064.5
l2events	12537310



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.8.1
caldsver	3.2.2
date	2006-08-09T01:19:41
revision	2

sched_exp_time	50000.000000
ontime	50978.047406286
ontime4	50832.127935261
ontime5	51004.309410453
ontime6	50836.50520581
ontime7	50978.047406286
ontime8	50840.882223725
ontime9	50837.963690072
l1events	13748731

2.1.3 Events

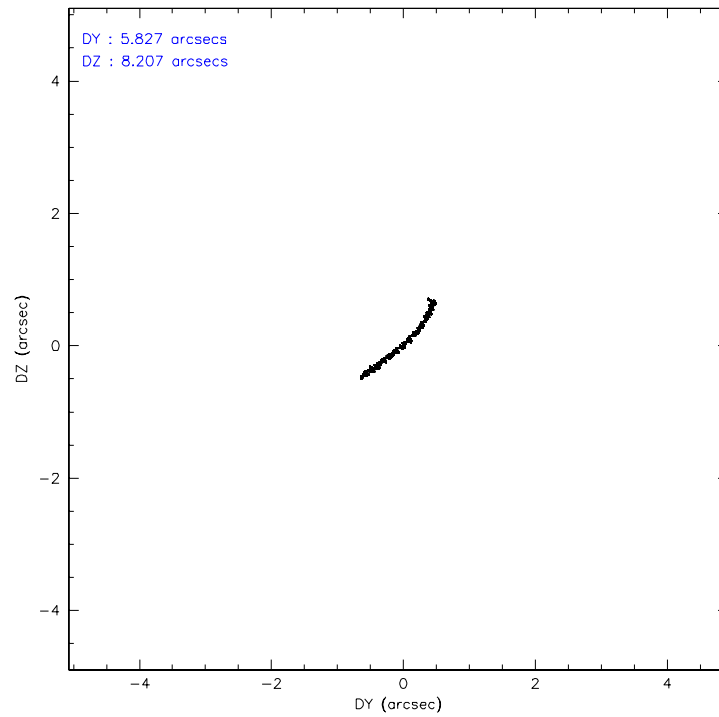
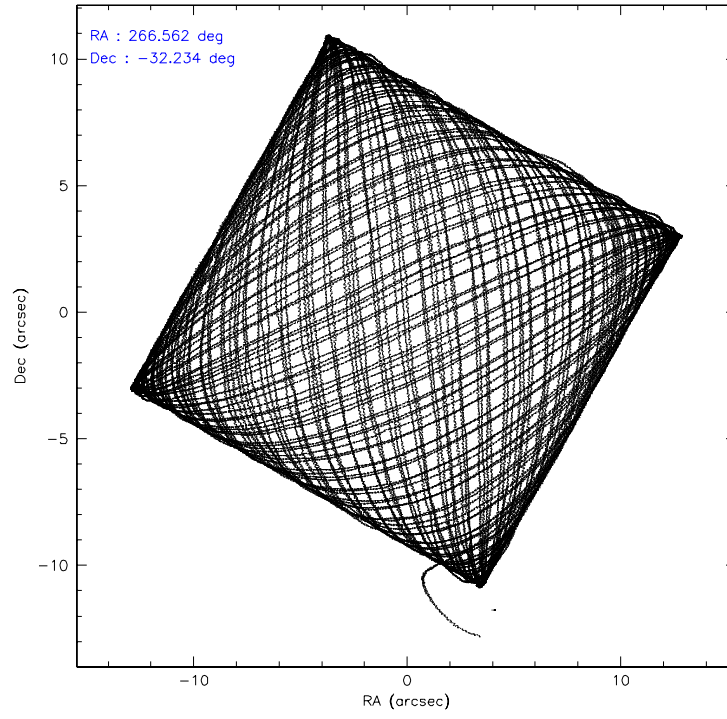
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	202513	1093644	4821139	5887500	1482500	261435
rejected events	28635	55587	74531	132718	47384	31561
rejected %	14%	5%	1%	2%	3%	12%

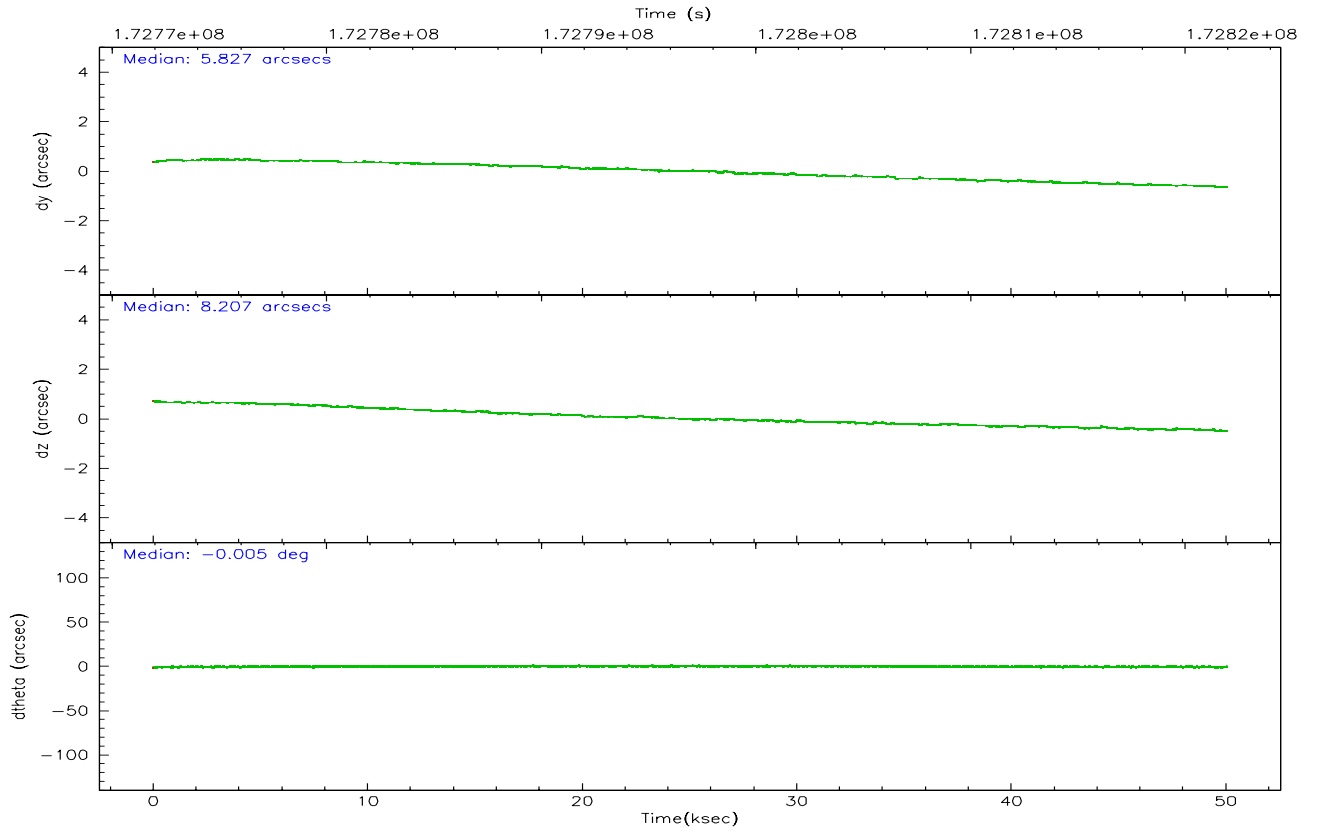
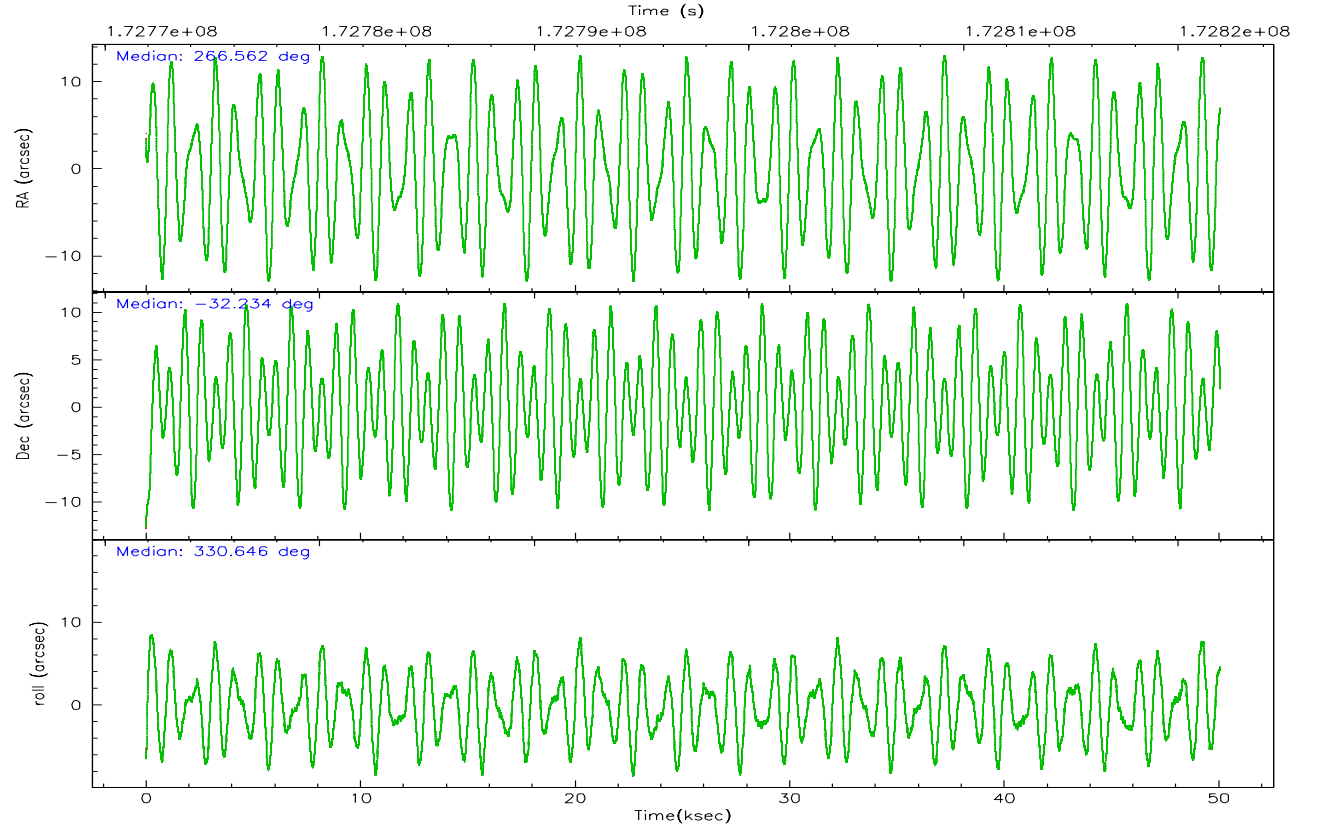
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	14042	245270	1145963	960080	802481	31893
	6%	22%	23%	16%	54%	12%
grade 1 events	221	393	3714	6183	2431	253
	0%	0%	0%	0%	0%	0%
grade 2 events	139250	419740	3106544	1685369	483489	171354
	68%	38%	64%	28%	32%	65%
grade 3 events	7317	40243	63549	541463	46349	7283
	3%	3%	1%	9%	3%	2%
grade 4 events	7483	39443	63806	536762	46163	7931
	3%	3%	1%	9%	3%	3%
grade 5 events	10405	31787	35665	86923	20662	12740
	5%	2%	0%	1%	1%	4%
grade 6 events	23795	316768	401898	2070720	80925	29981
	11%	28%	8%	35%	5%	11%
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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	266.530378	266.5625382618858	Alternating exposures requested	N	N
Pointing Dec	-32.234901	-32.23421627571186	Primary exposure time	0.000000	0
Pointing Roll	330.476740	330.6505146827585			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.632523	-182.6373491900168			
SIM translation stage offset (mm)	-7.5	-7.495173392990978			
Observation start time	172771974.184000	172770970.38742			
Observation start date	2003-06-23T16:11:50	2003-06-23T15:56:10			
Observation end time	172821974.184000	172822968.63963			
Observation end date	2003-06-24T06:05:10	2003-06-24T06:22:48			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



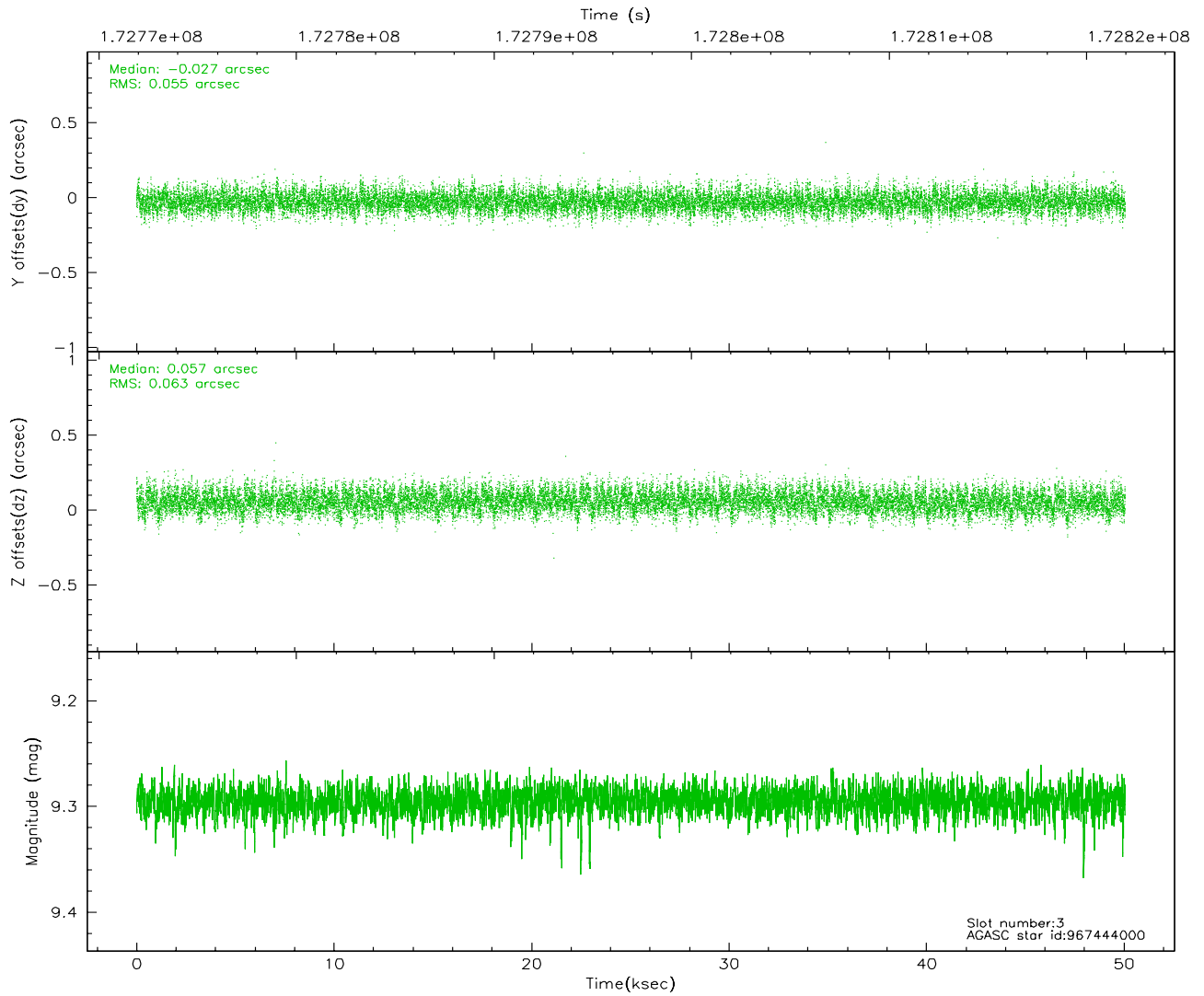
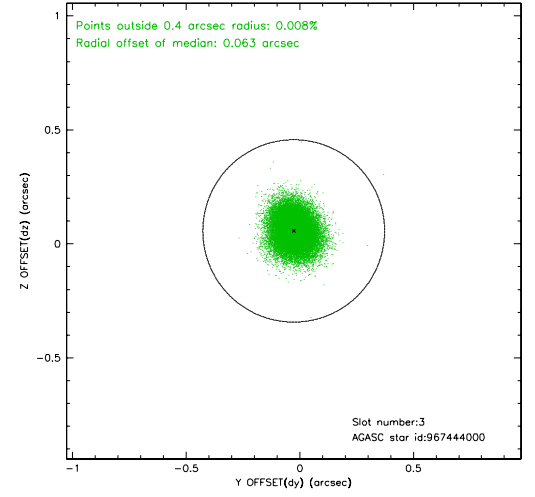
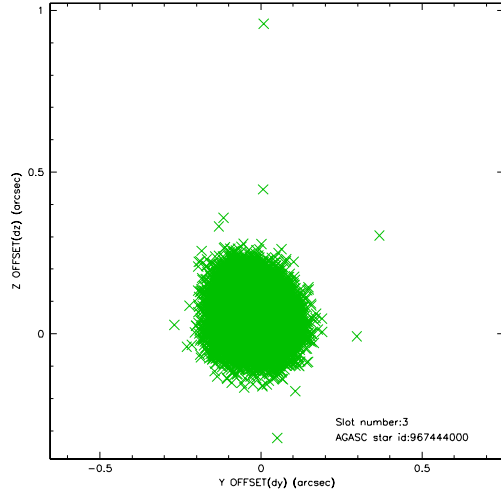


Slot Statistics

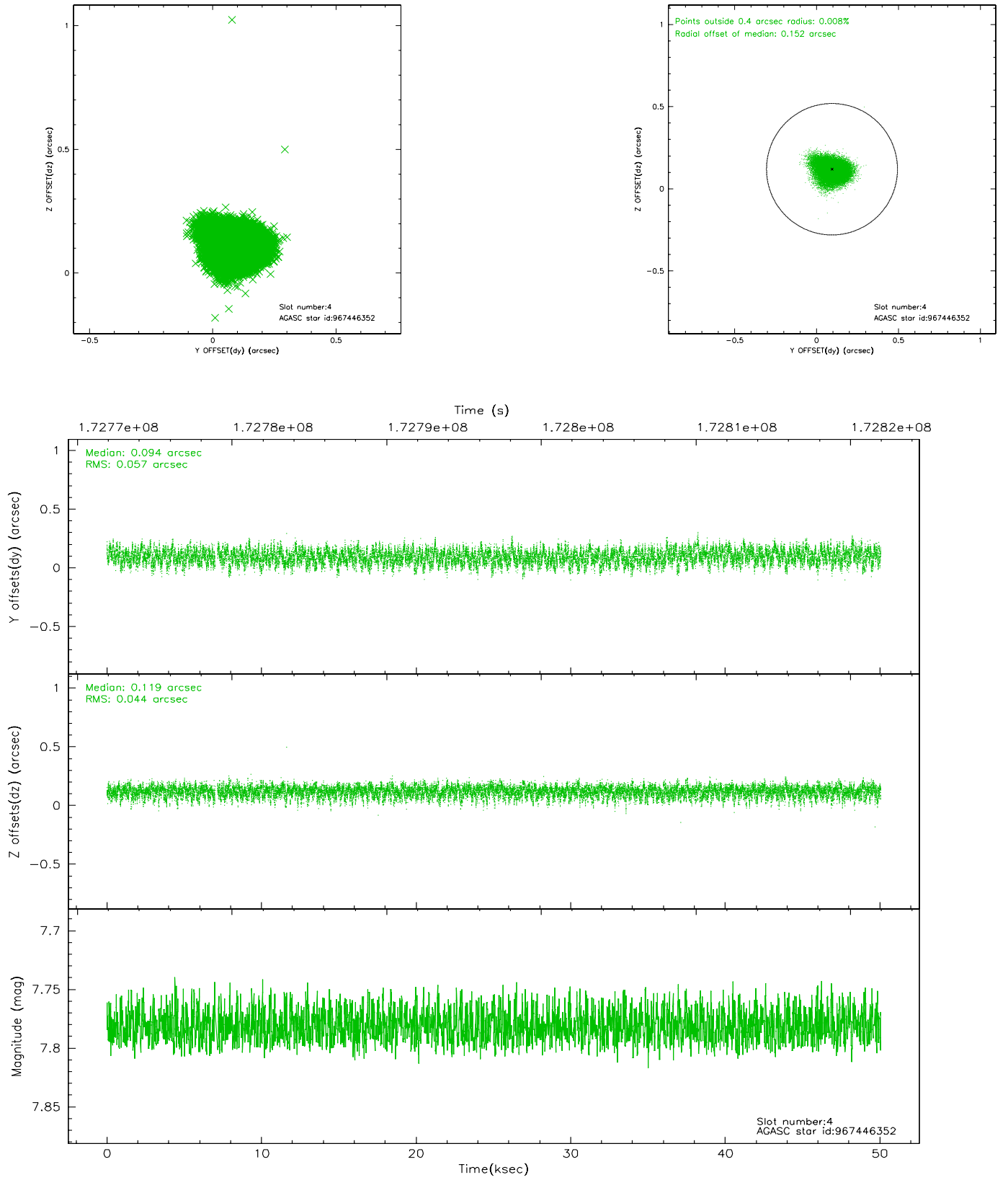
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	12205	0.001	0.146	0.022	0.040	0.000000	0.000000	938.05	-1879.38
1	FID	ACIS-S-5	7.23	12212	-0.054	0.034	0.023	0.033	0.000000	0.000000	-1811.01	18.07
2	FID	ACIS-S-6	7.41	12213	0.032	-0.165	0.010	0.017	0.000000	0.000000	403.67	661.81
3	GUIDE	967444000	9.30	24391	-0.027	0.057	0.090	0.143	266.327670	-32.824762	513.63	-2150.21
4	GUIDE	967446352	7.78	24343	0.094	0.119	0.077	0.123	267.069988	-32.671157	2199.43	-564.21
5	GUIDE	967450832	9.11	24317	0.031	-0.133	0.071	0.116	266.078096	-31.879979	-1830.81	427.86
6	GUIDE	967448688	8.05	24420	-0.131	0.029	0.070	0.112	265.570021	-32.523235	-2018.34	-2351.08
7	GUIDE	967451816	9.27	24349	0.031	-0.063	0.095	0.148	267.266669	-31.901374	1370.56	2147.00

2.4 Star Slots

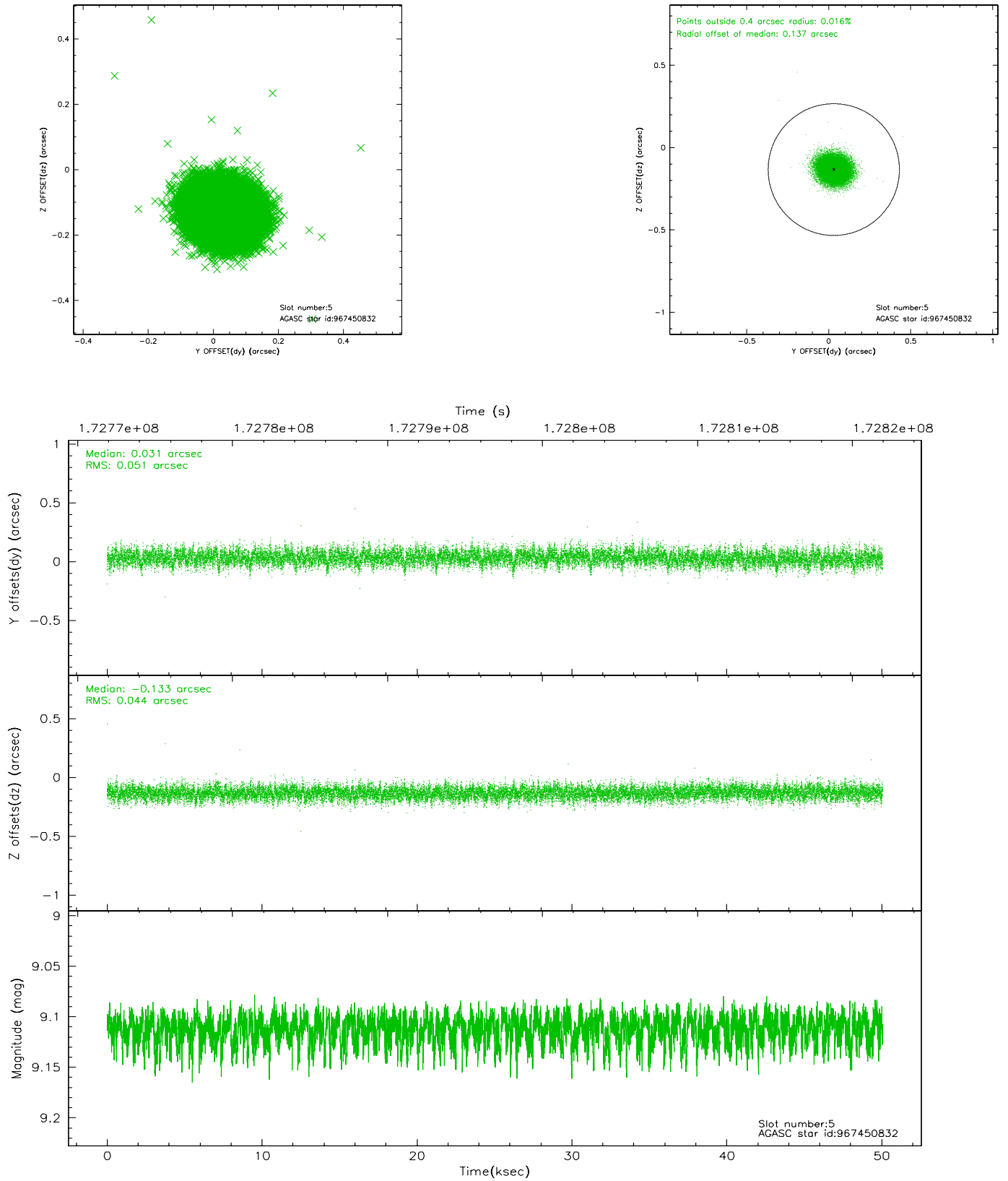
2.4.1 Slot 3



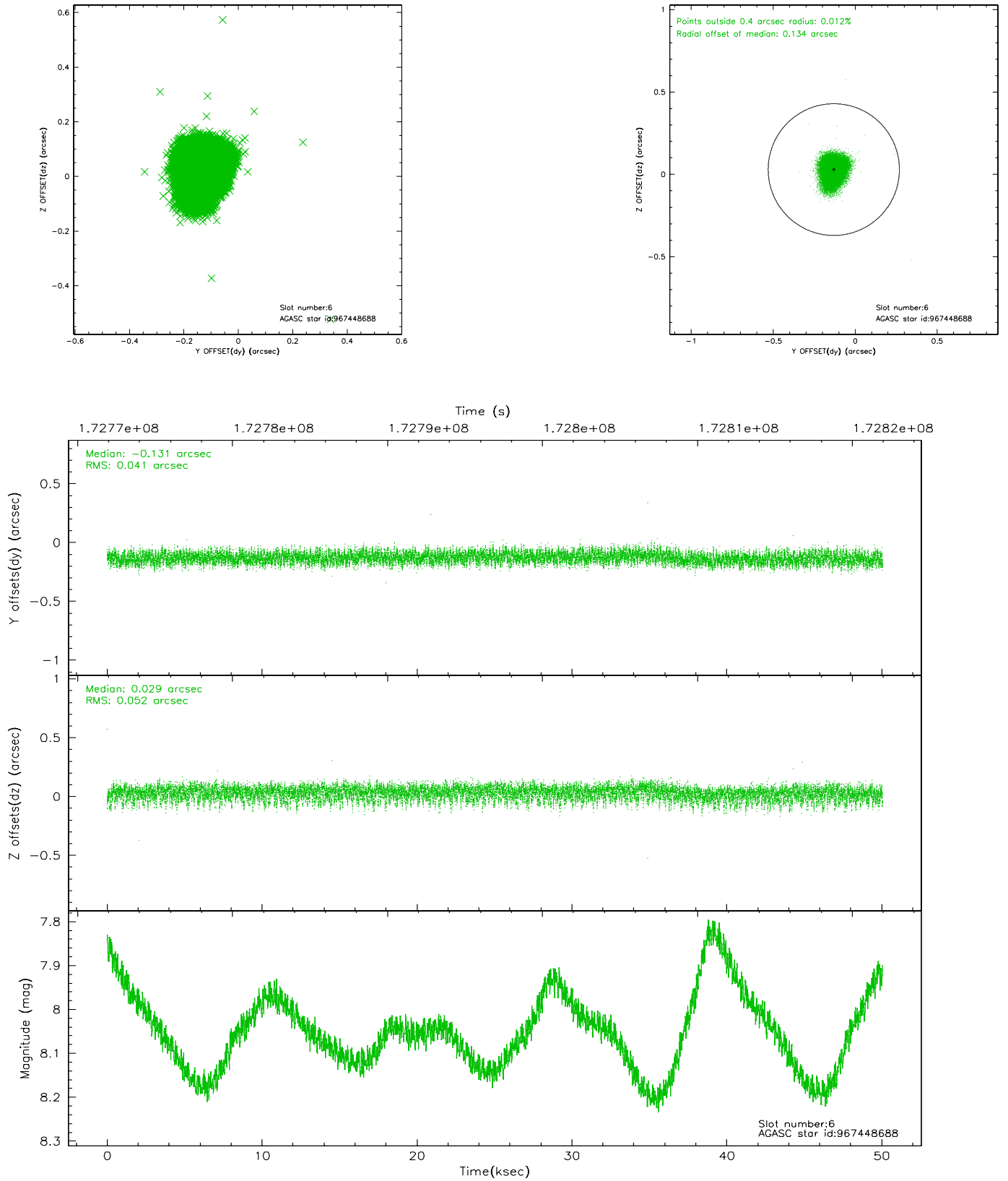
2.4.2 Slot 4



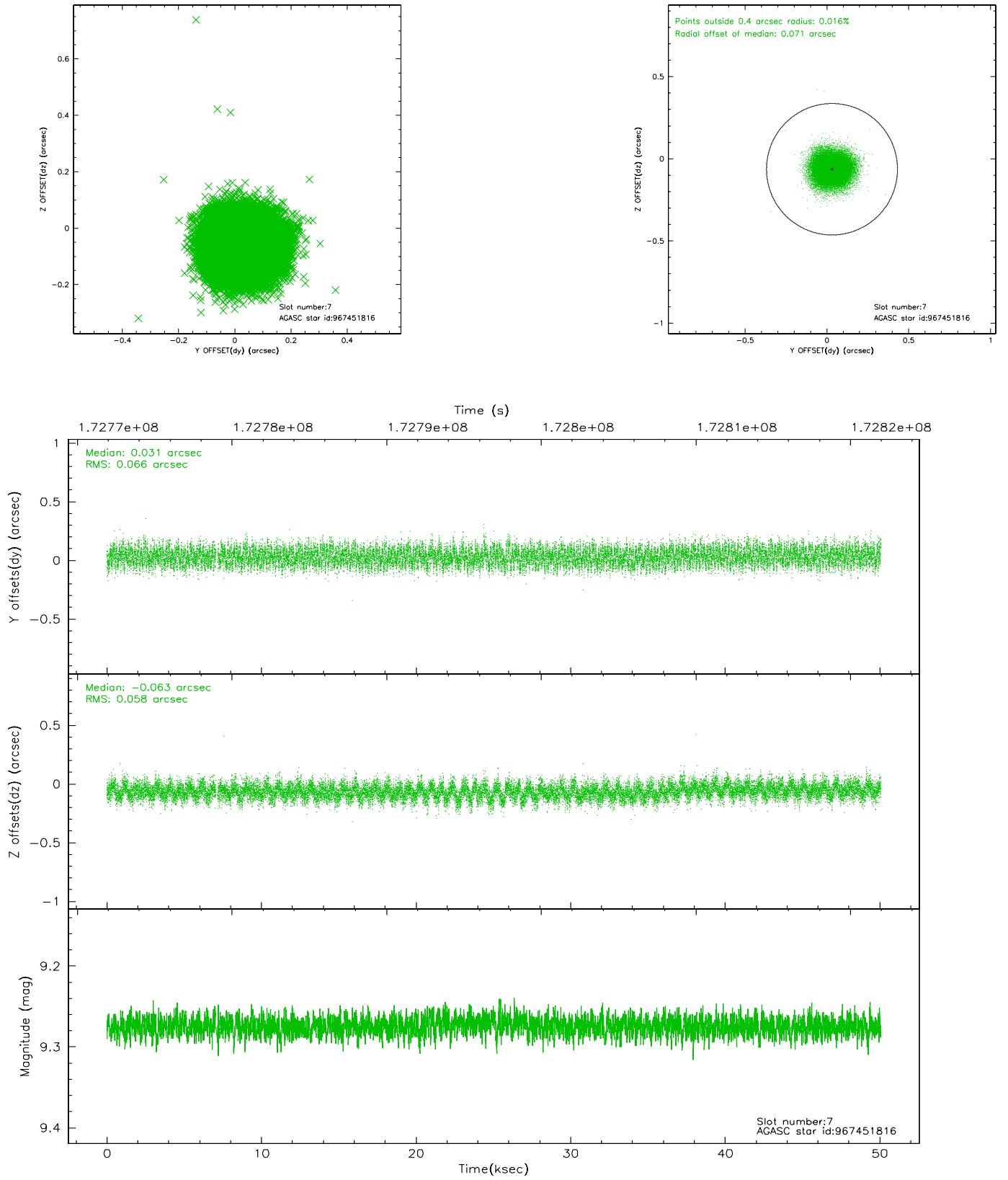
2.4.3 Slot 5



2.4.4 Slot 6

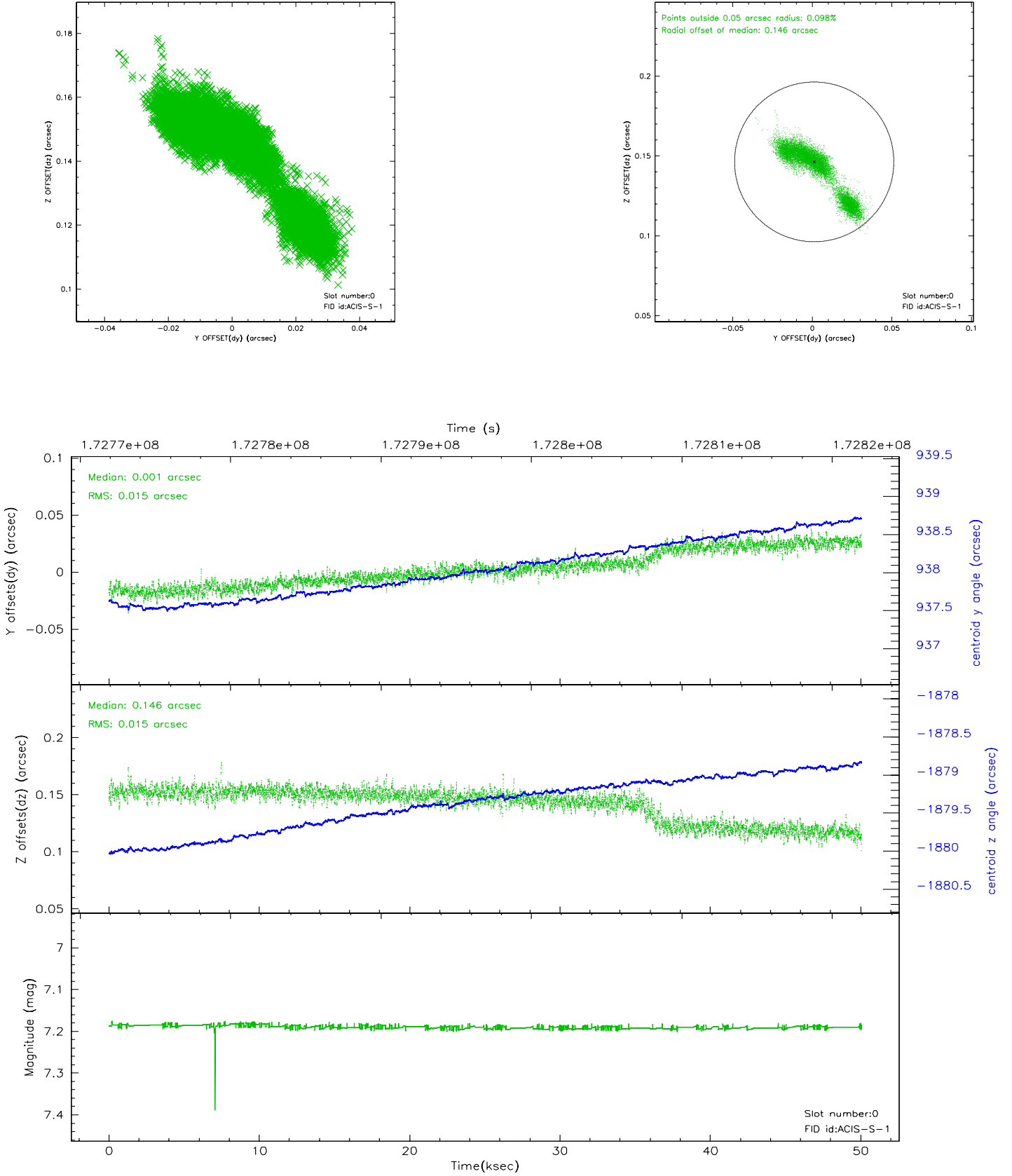


2.4.5 Slot 7

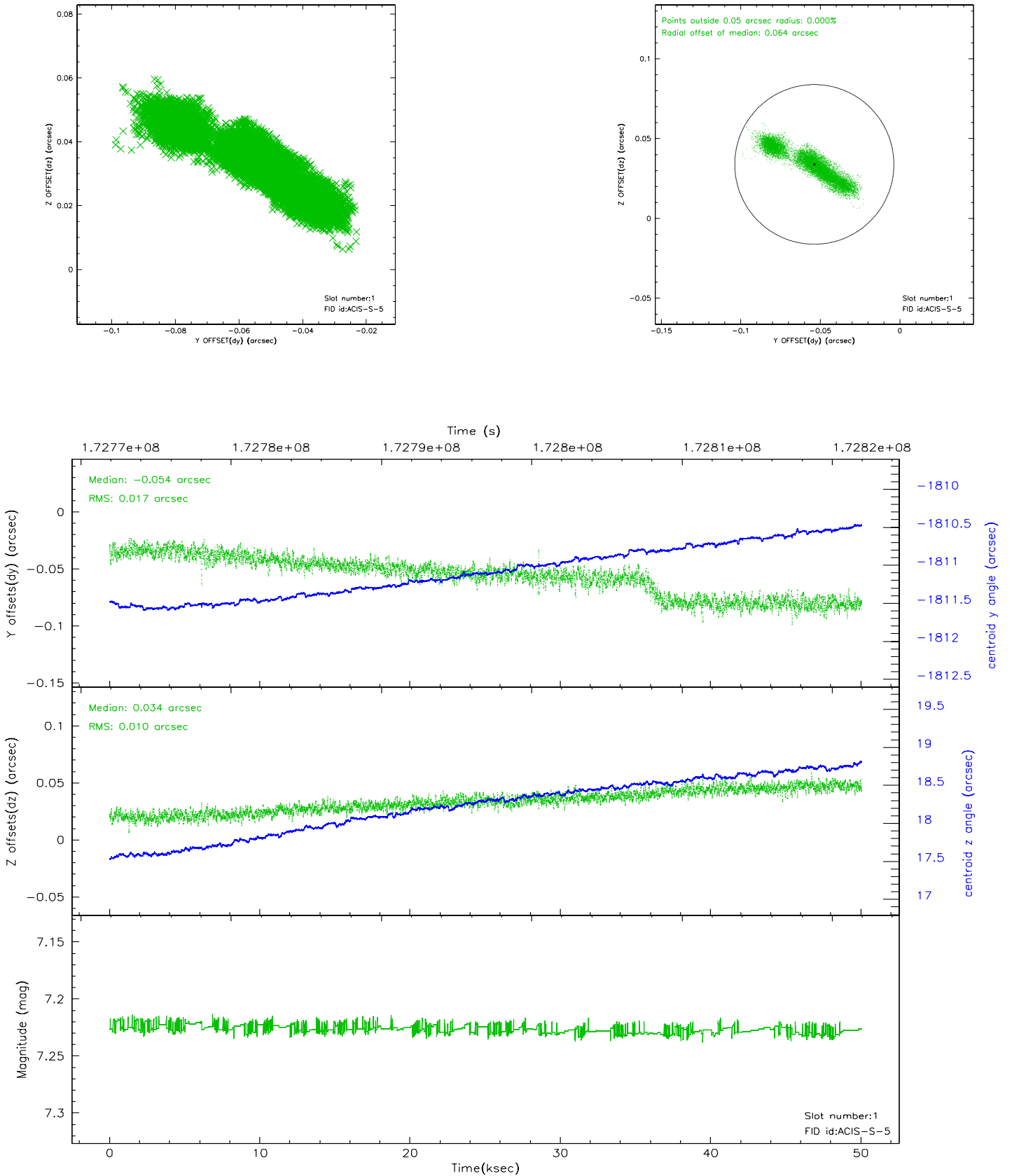


2.5 FID Slots

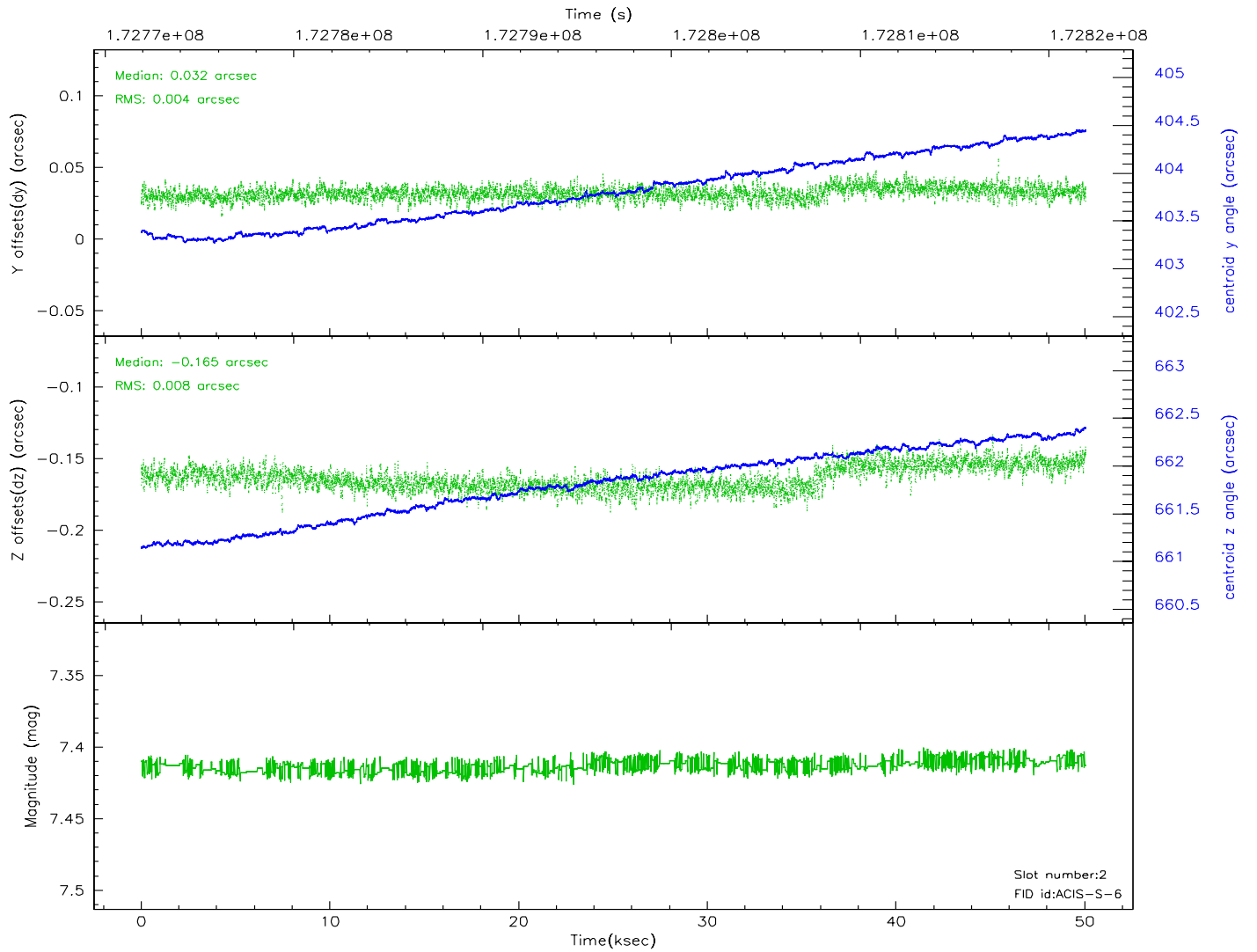
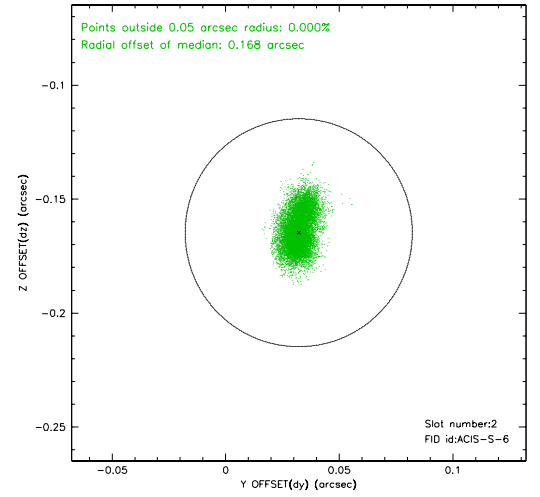
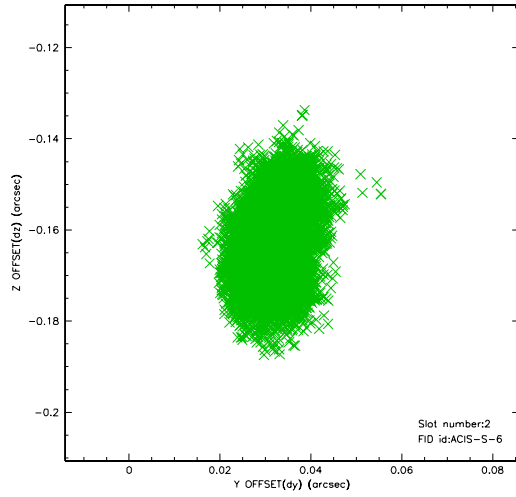
2.5.1 Slot 0



2.5.2 Slot 1

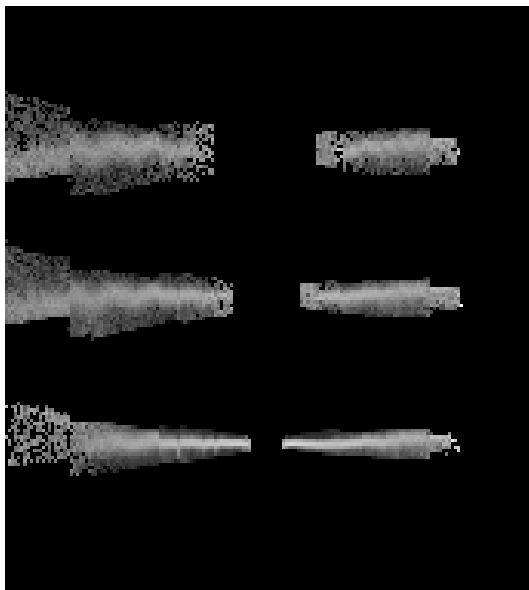


2.5.3 Slot 2



3 Gratings

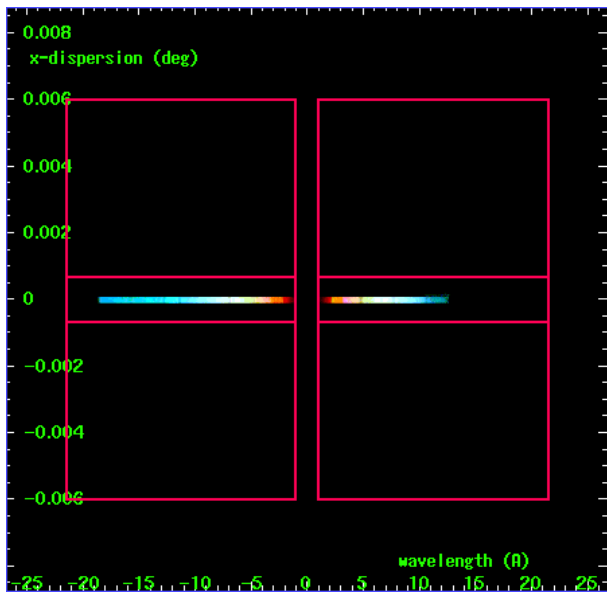
3.1 HEG Arm



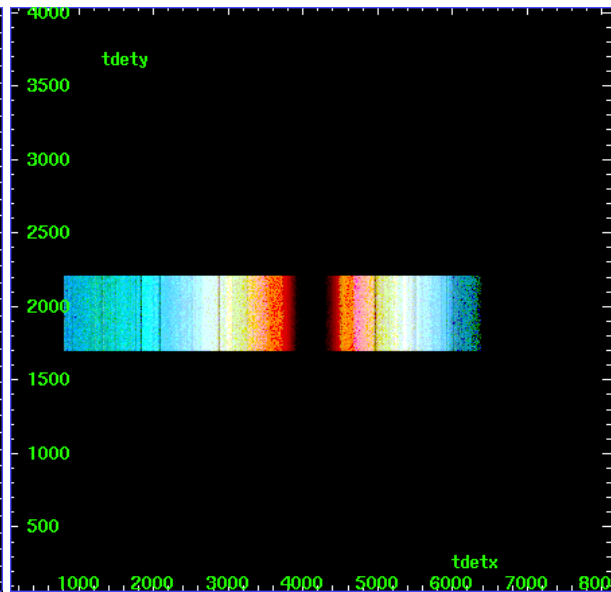
HEG Order Sort 123



HEG Order Sort ALL

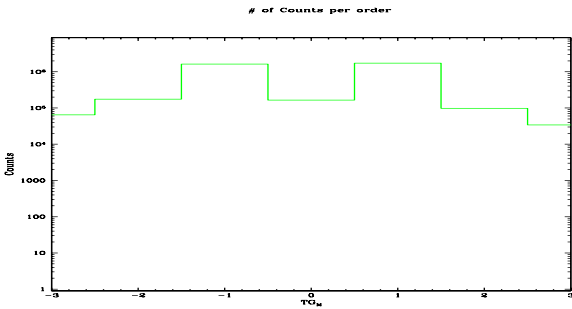


Spot Image HEG

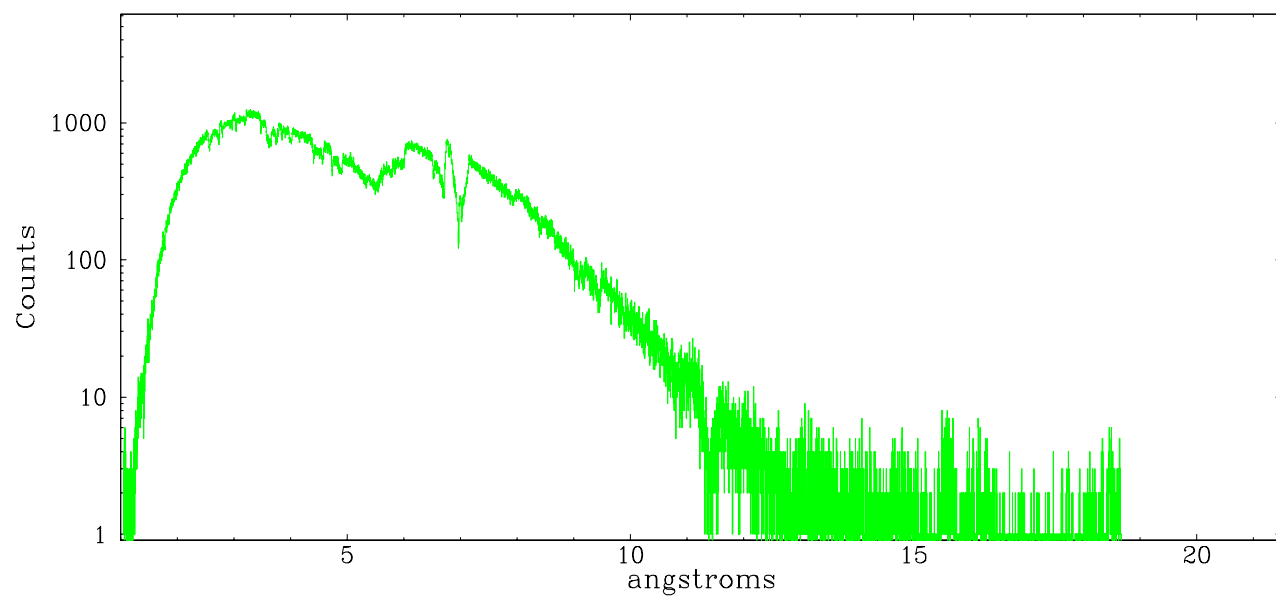


Full Detector HEG

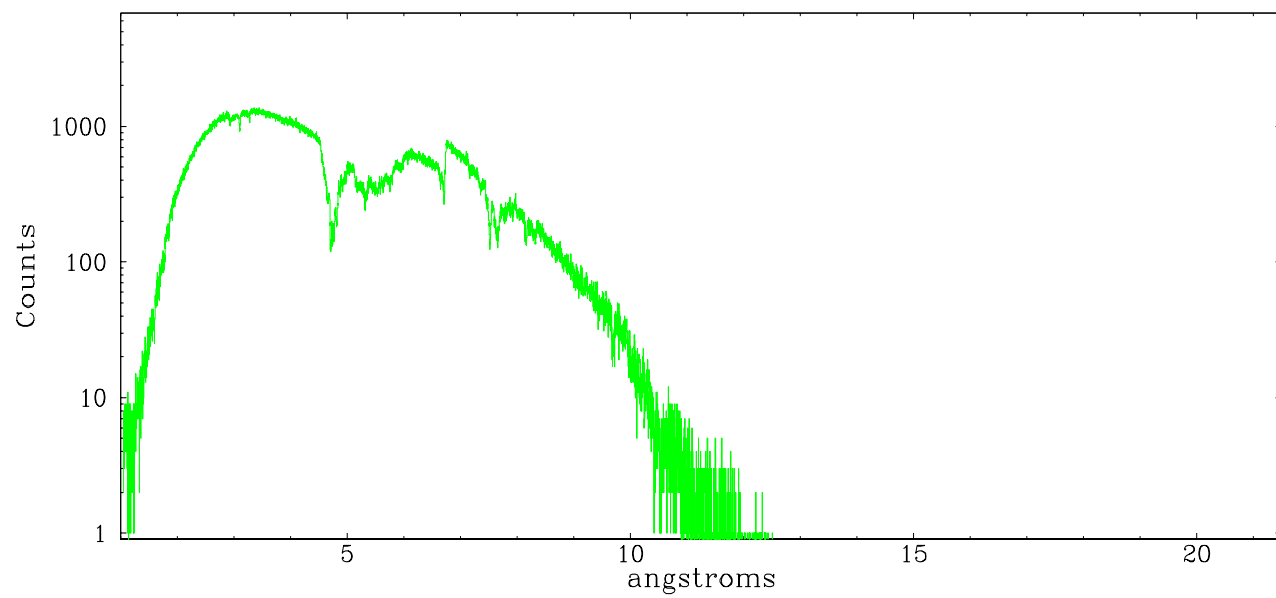
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	64374	174220	1624740	165184	1723979	97319	34042



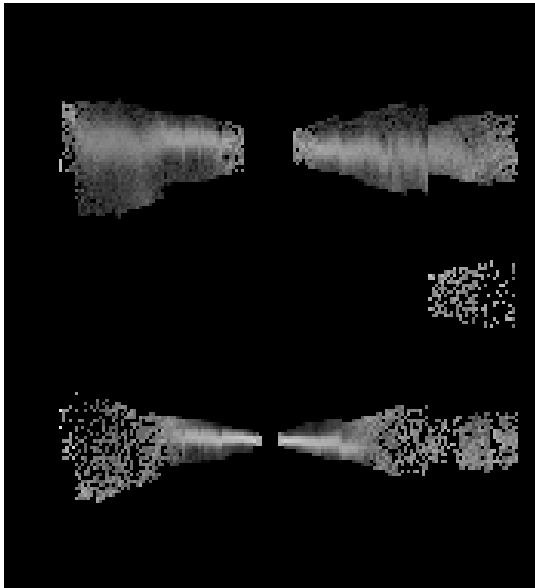
heg order -1



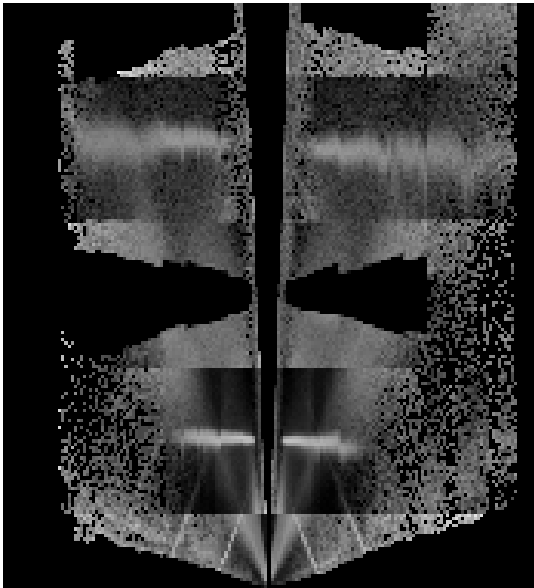
heg order +1



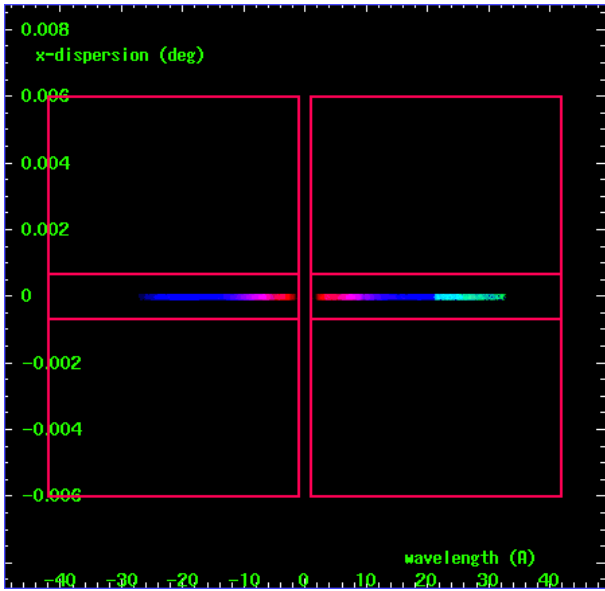
3.2 MEG Arm



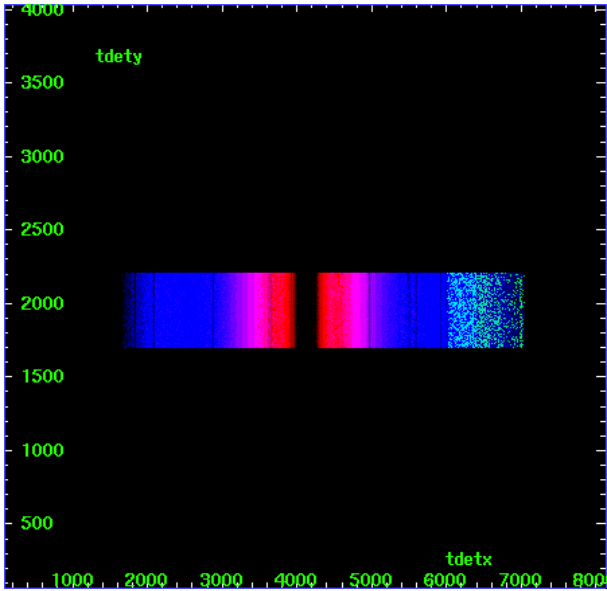
MEG Order Sort 123



MEG Order Sort ALL

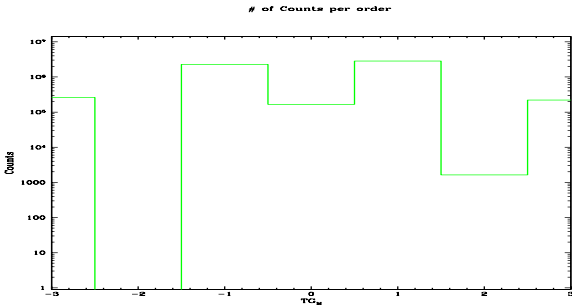


Spot Image MEG

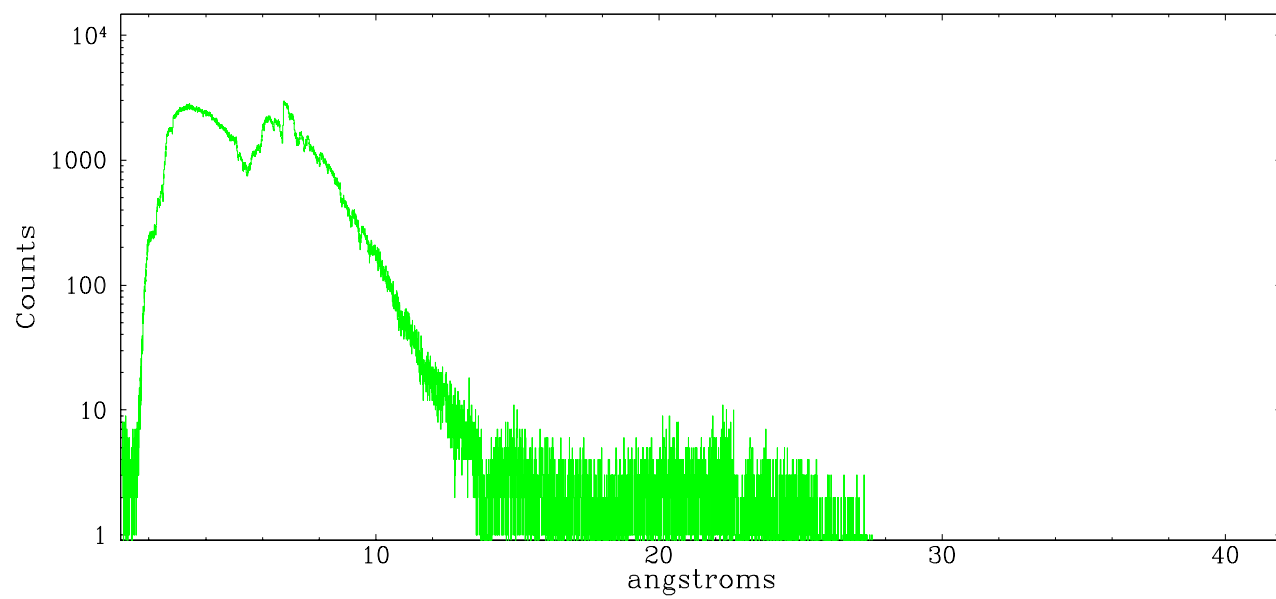


Full Detector MEG

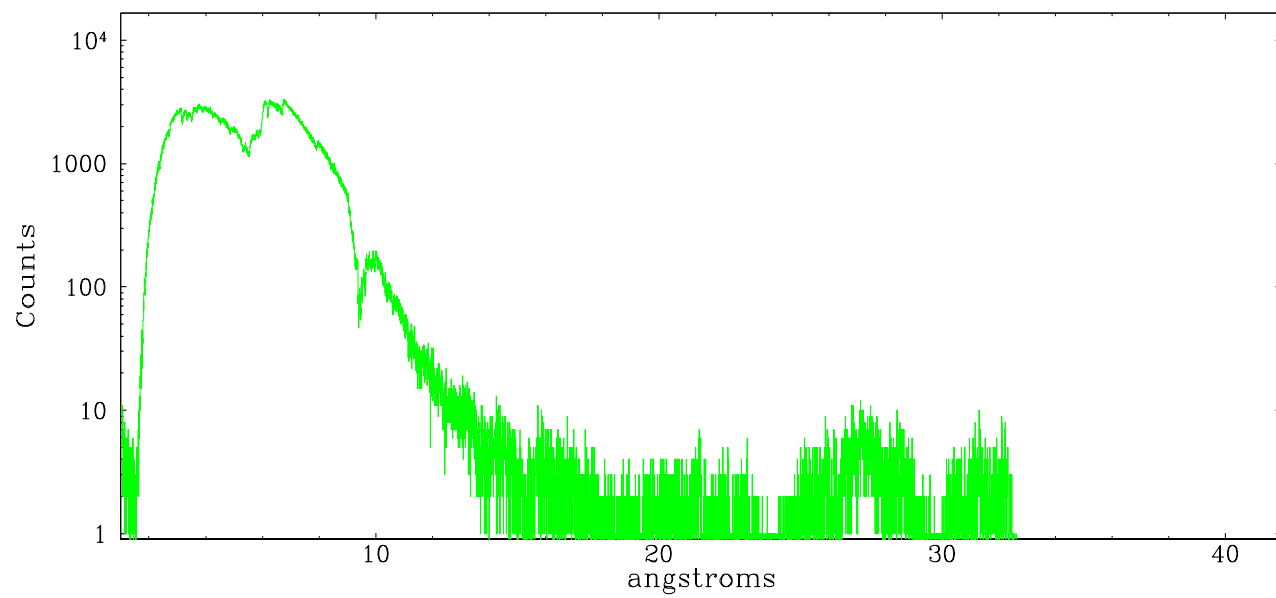
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	260031	0	2286749	165184	2830735	1626	220806



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.067

A.2 Comments