

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 5195 - L2 Version 002
Chandra X-Ray Center

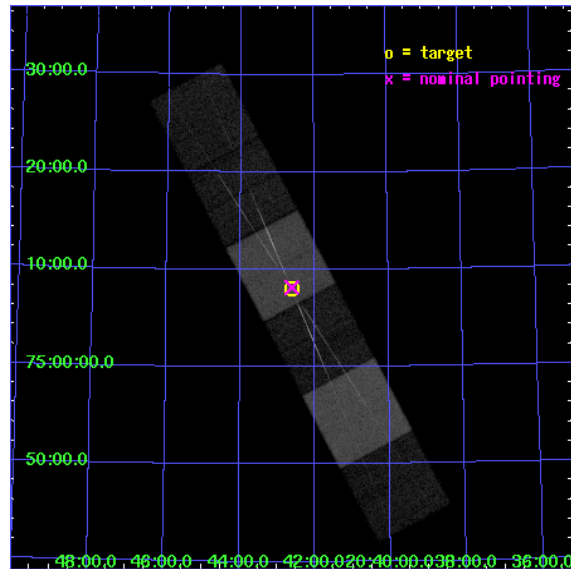
L2 Processing Date : Oct 2 2006

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1 Front

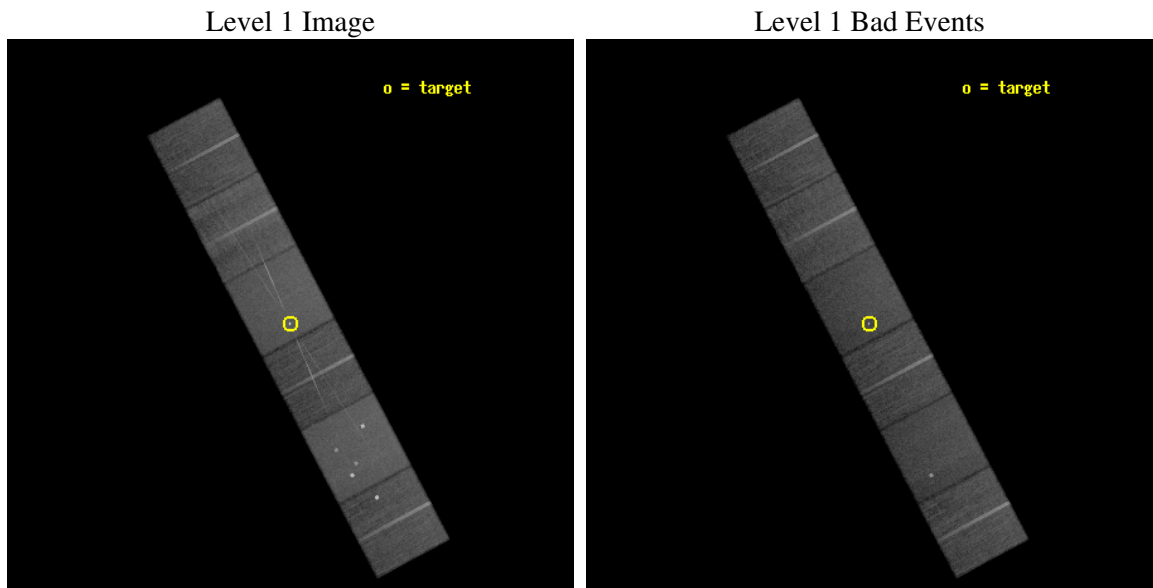
seq_num	700679
obs_id	5195
title	SEARCHING FOR HIGHLY IONIZED WARM ABSORBERS IN HIGH LUMINOSITY AGN: 4C 74.26
observer	Dr. Shai Kaspi
object	4C 74.26
dtcycle	0
cycle	P
ra_targ	310.655
dec_targ	75.134028
ra_nom	310.65200060452
dec_nom	75.136122679816
roll_nom	242.1595317748
revision	4
ontime	31871.795020044
livetime	31468.215160609
ontime4	31871.794980139
ontime5	31875.035950392
ontime6	31871.794990122
ontime7	31871.795020044
ontime8	31871.794990122
ontime9	31868.554019839
l2events	329488



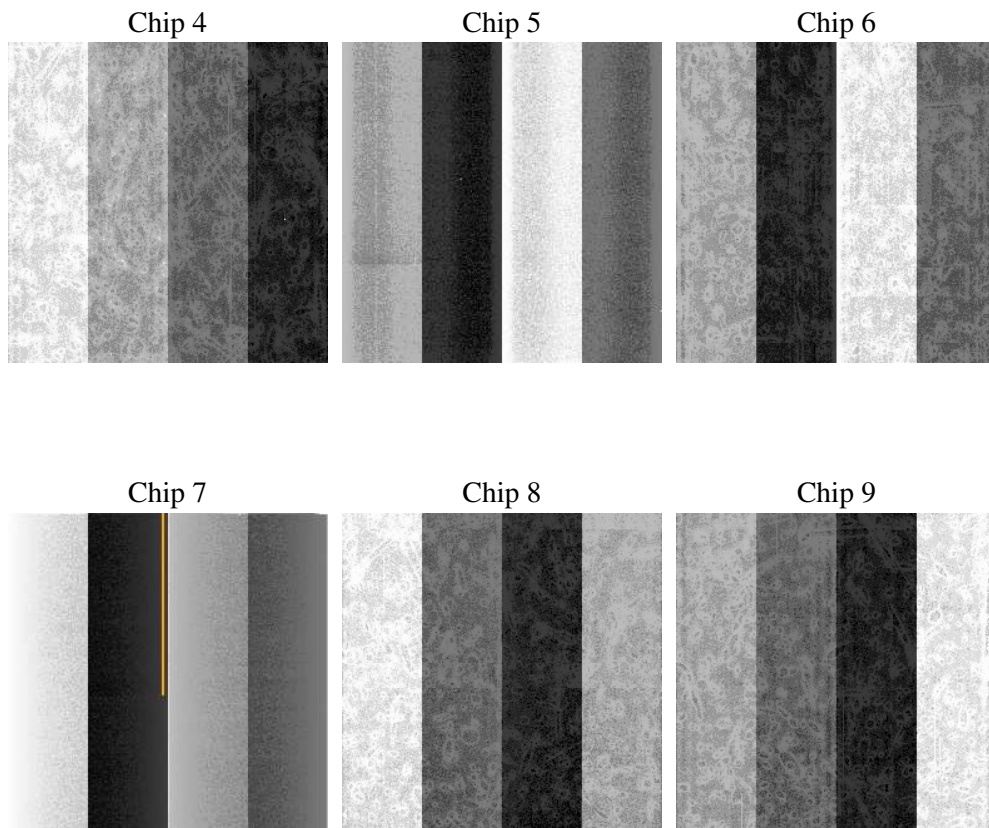
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-02T19:16:57
revision	4

sched_exp_time	32151.000000
ontime	31878.487720042
ontime4	31878.487680137
ontime5	31881.728650391
ontime6	31878.487690121
ontime7	31878.487720042
ontime8	31878.487690121
ontime9	31875.246719837
l1events	1498843

2.1.4 Events

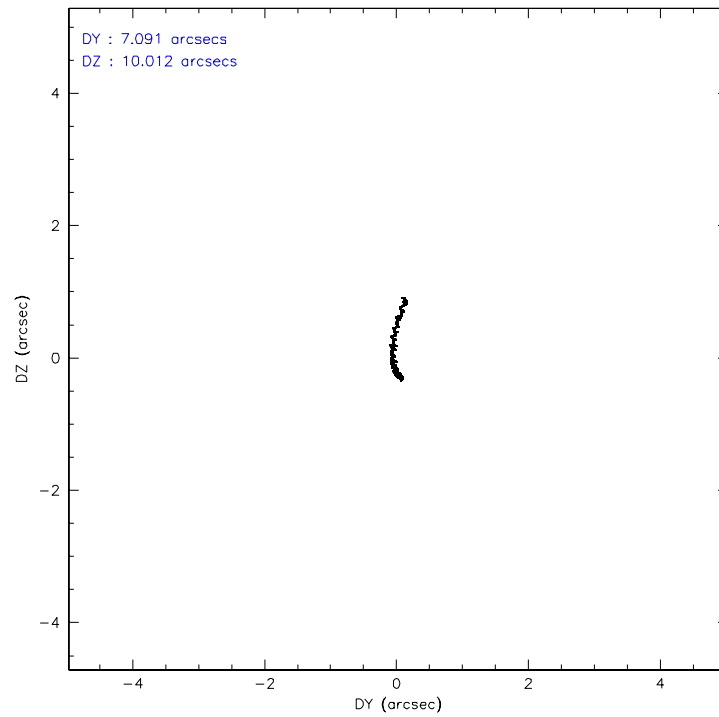
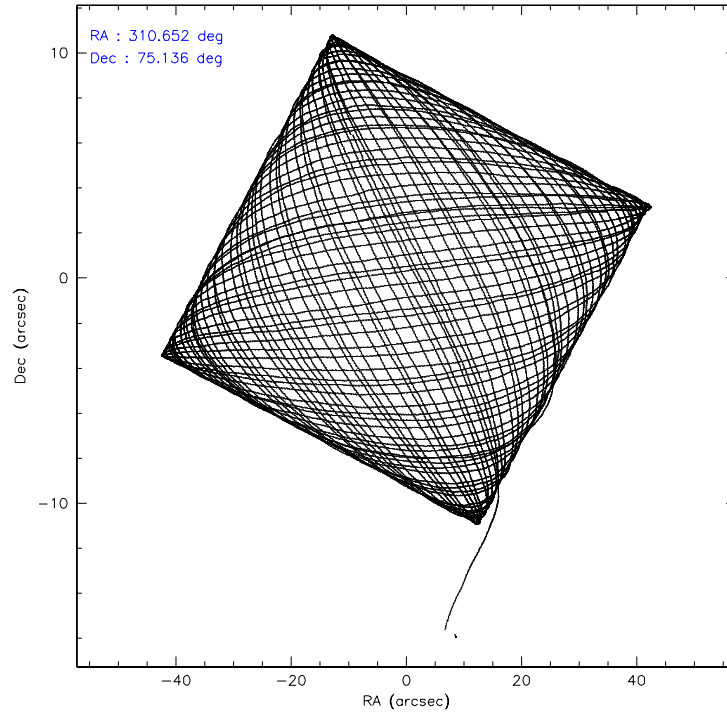
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	233566	305883	209562	285711	261130	202991
rejected events	200301	167481	178673	170314	205337	178245
rejected %	85%	54%	85%	59%	78%	87%

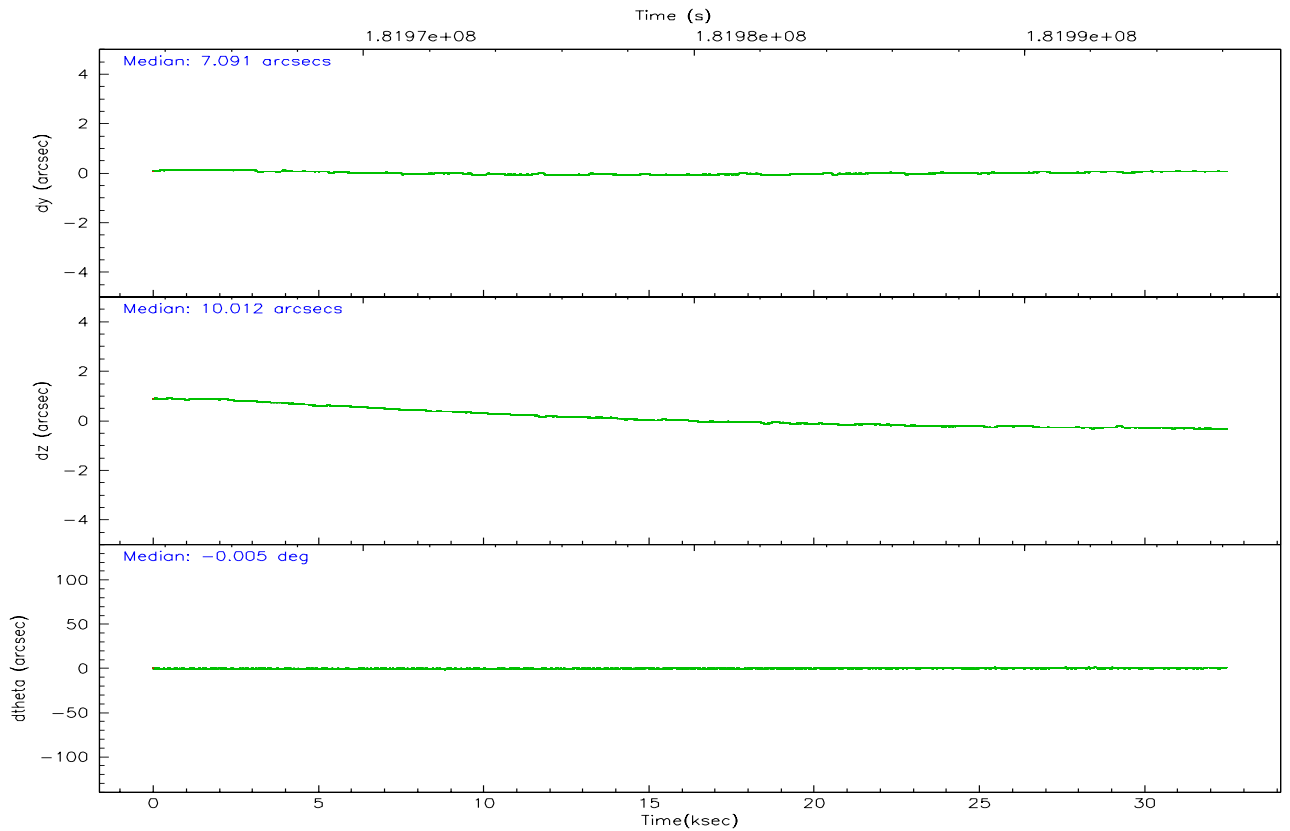
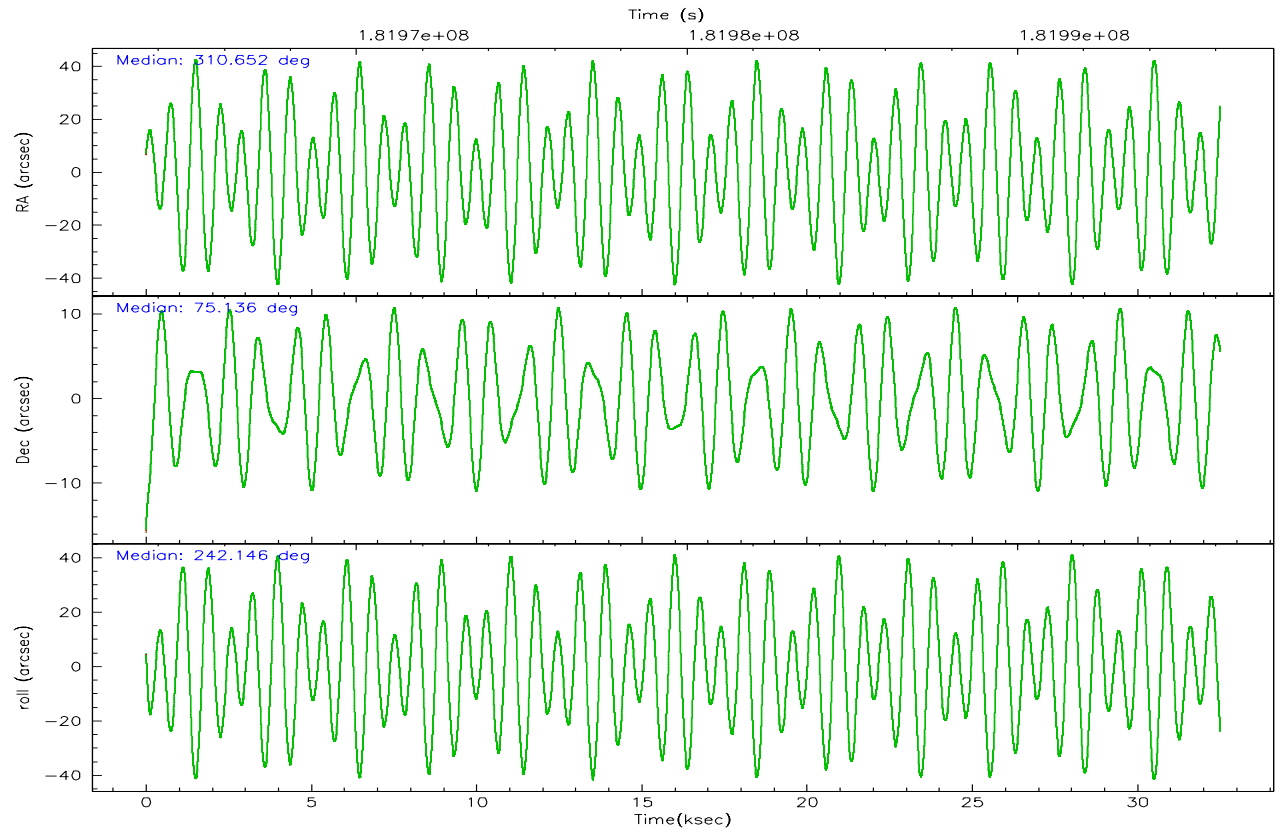
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	19217	15799	14811	7945	18701	10296
	8%	5%	7%	2%	7%	5%
grade 1 events	220	285	122	252	171	104
	0%	0%	0%	0%	0%	0%
grade 2 events	5075	42388	5789	28812	11882	4742
	2%	13%	2%	10%	4%	2%
grade 3 events	2615	3008	2526	6457	5682	2479
	1%	0%	1%	2%	2%	1%
grade 4 events	2510	2850	2690	6287	5408	2355
	1%	0%	1%	2%	2%	1%
grade 5 events	8655	14607	9281	18942	12154	9784
	3%	4%	4%	6%	4%	4%
grade 6 events	3859	74404	5088	65918	14145	4888
	1%	24%	2%	23%	5%	2%
grade 7 events	191415	152542	169255	151098	192987	168343
	81%	49%	80%	52%	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	310.646505	310.6520006045178	Subarray requested	NONE	NONE
Pointing Dec	75.163322	75.13612267981598	Alternating exposures requested	N	N
Pointing Roll	242.008214	242.1595317748044	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	181963980.184000	181962971.41781			
Observation start date	2003-10-08T01:31:56	2003-10-08T01:16:11			
Observation end time	181996131.184000	181997184.38178			
Observation end date	2003-10-08T10:27:47	2003-10-08T10:46:24			
Read mode	TIMED	TIMED			

2.3 Aspect



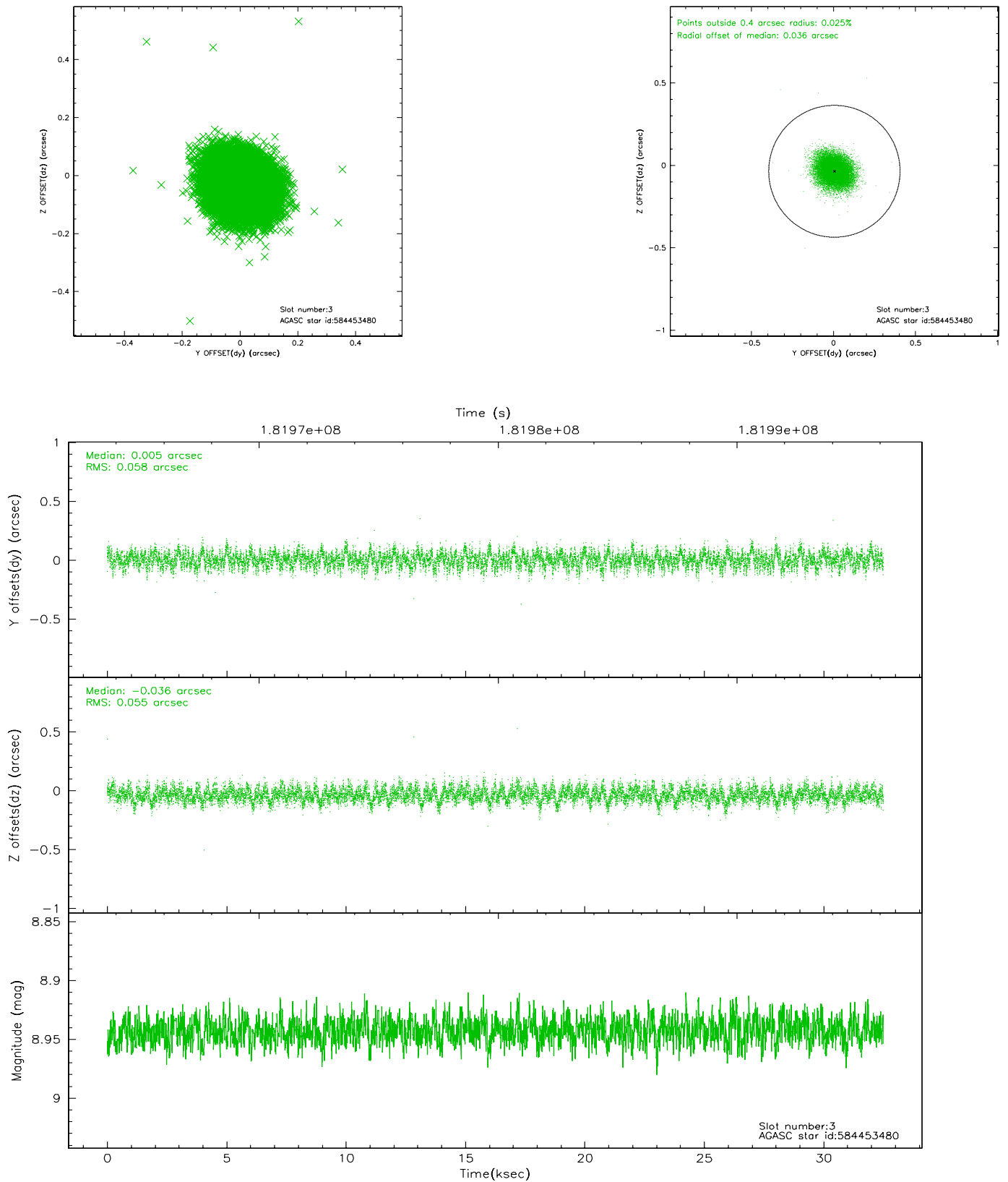


Slot Statistics

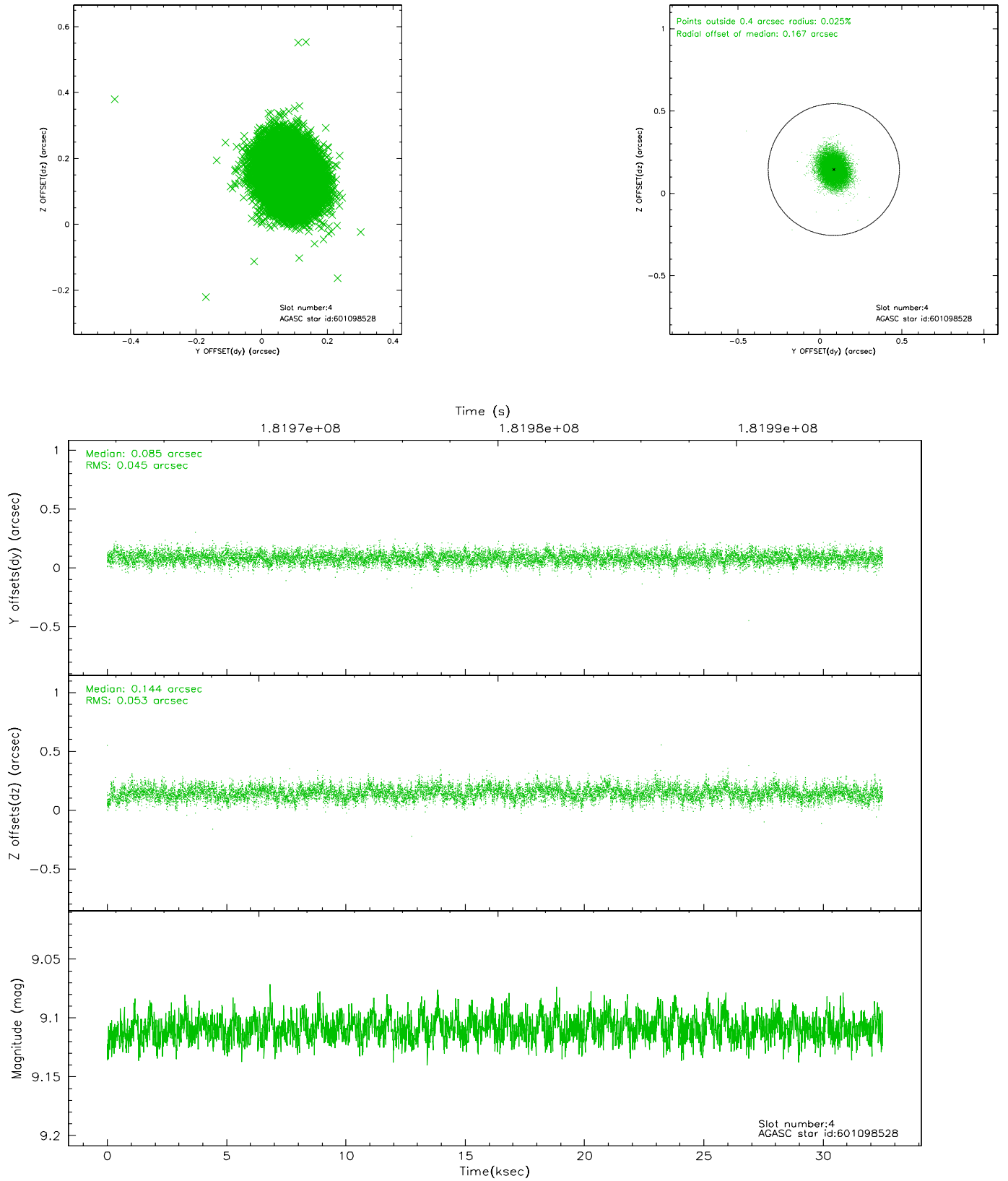
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	7909	-0.030	0.014	0.011	0.017	0.000000	0.000000	-759.86	-1731.33
1	FID	ACIS-S-4	7.20	7907	0.012	0.011	0.008	0.014	0.000000	0.000000	2153.41	177.13
2	FID	ACIS-S-5	7.23	7909	-0.013	-0.016	0.010	0.017	0.000000	0.000000	-1812.64	170.78
3	GUIDE	584453480	8.94	15819	0.005	-0.036	0.085	0.136	311.245727	74.720187	1139.25	1249.45
4	GUIDE	601098528	9.11	15816	0.085	0.144	0.074	0.121	310.058226	75.008164	748.38	-222.63
5	GUIDE	584456408	9.42	15818	0.015	0.025	0.108	0.170	307.720285	74.988328	1777.58	-2144.03
6	GUIDE	586155048	7.94	15823	-0.050	-0.217	0.060	0.096	312.135794	74.489876	1451.65	2395.16
7	GUIDE	600992280	9.20	15818	-0.056	0.085	0.102	0.164	307.494541	75.010644	1794.16	-2368.47

2.4 Star Slots

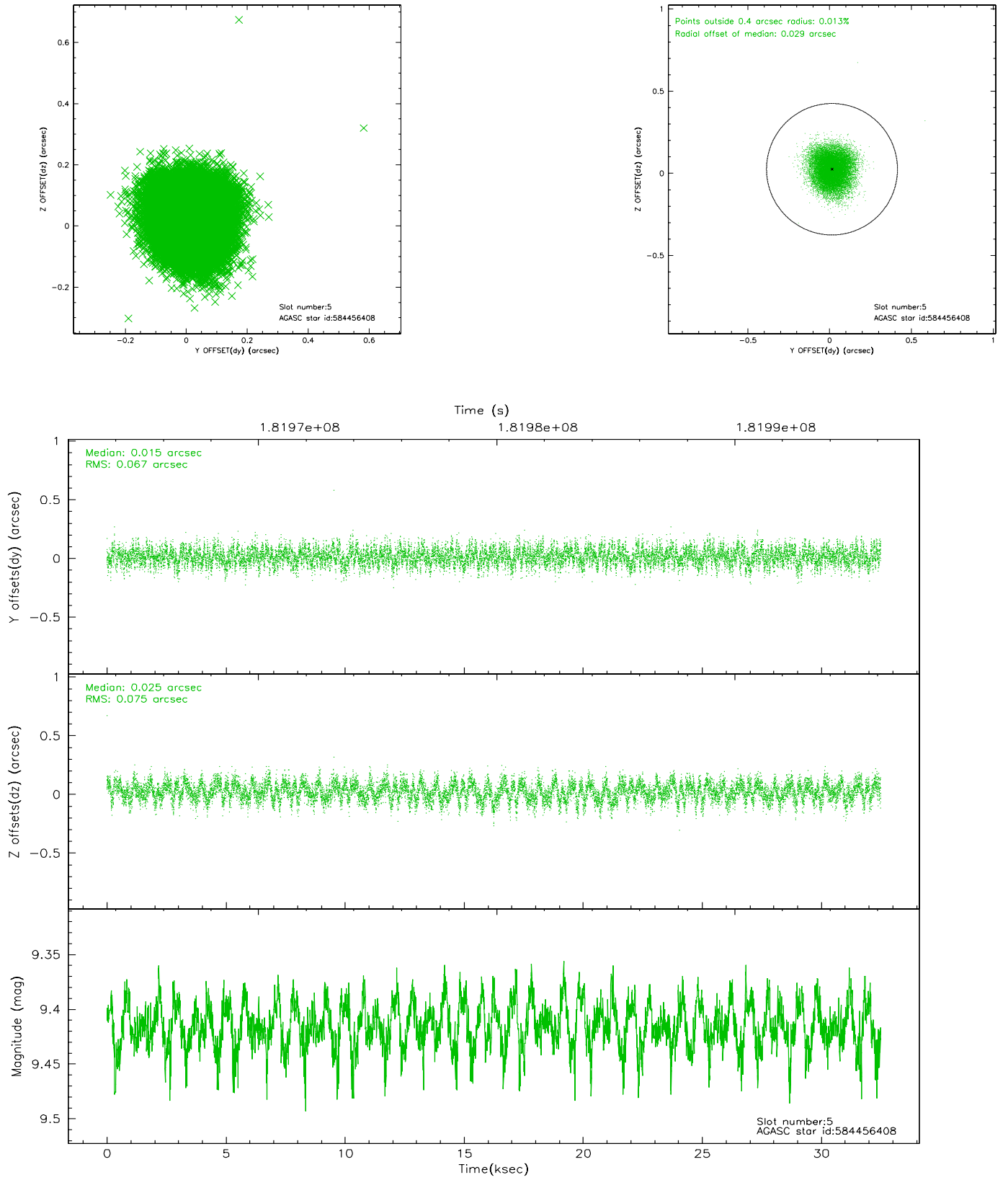
2.4.1 Slot 3



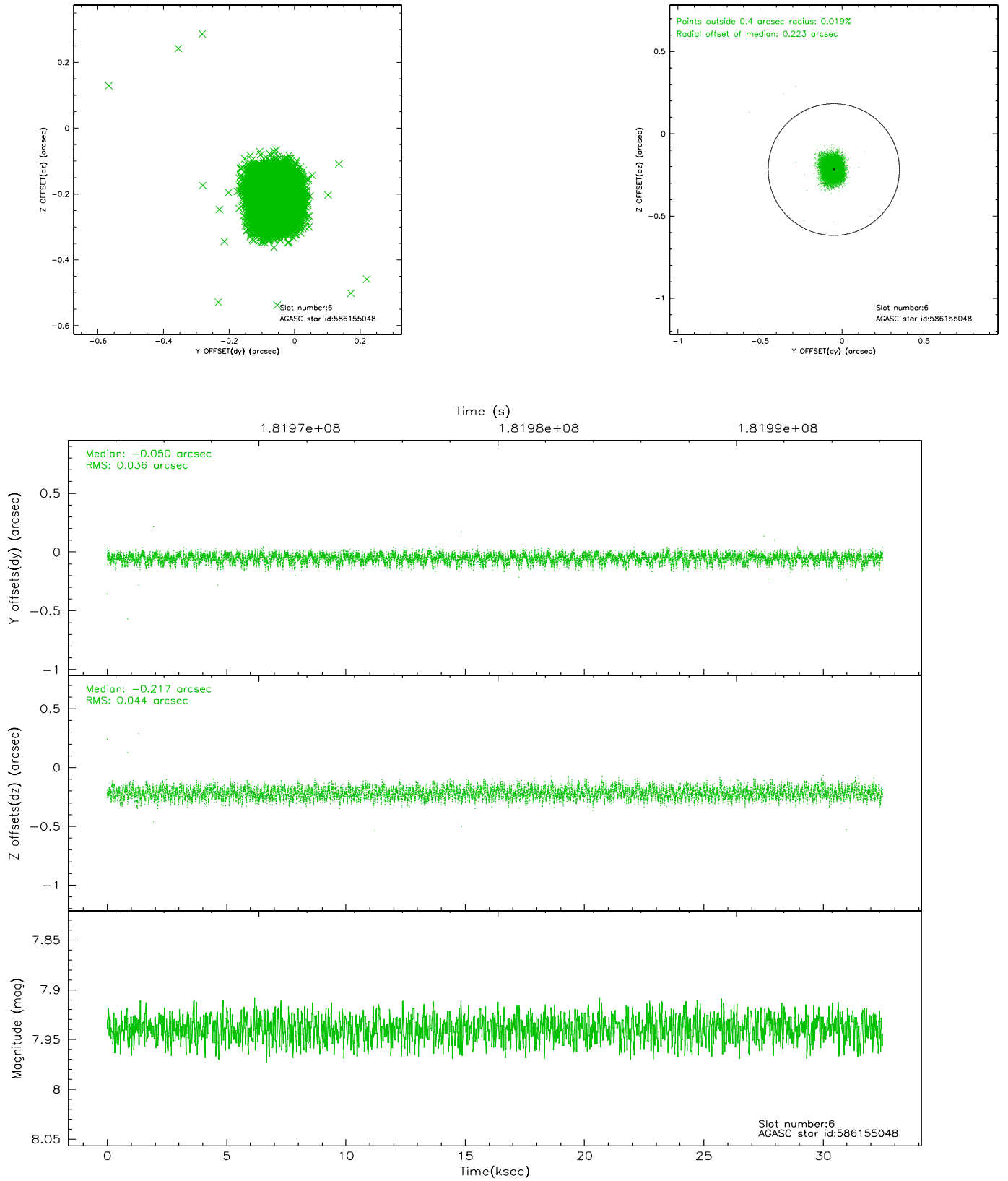
2.4.2 Slot 4



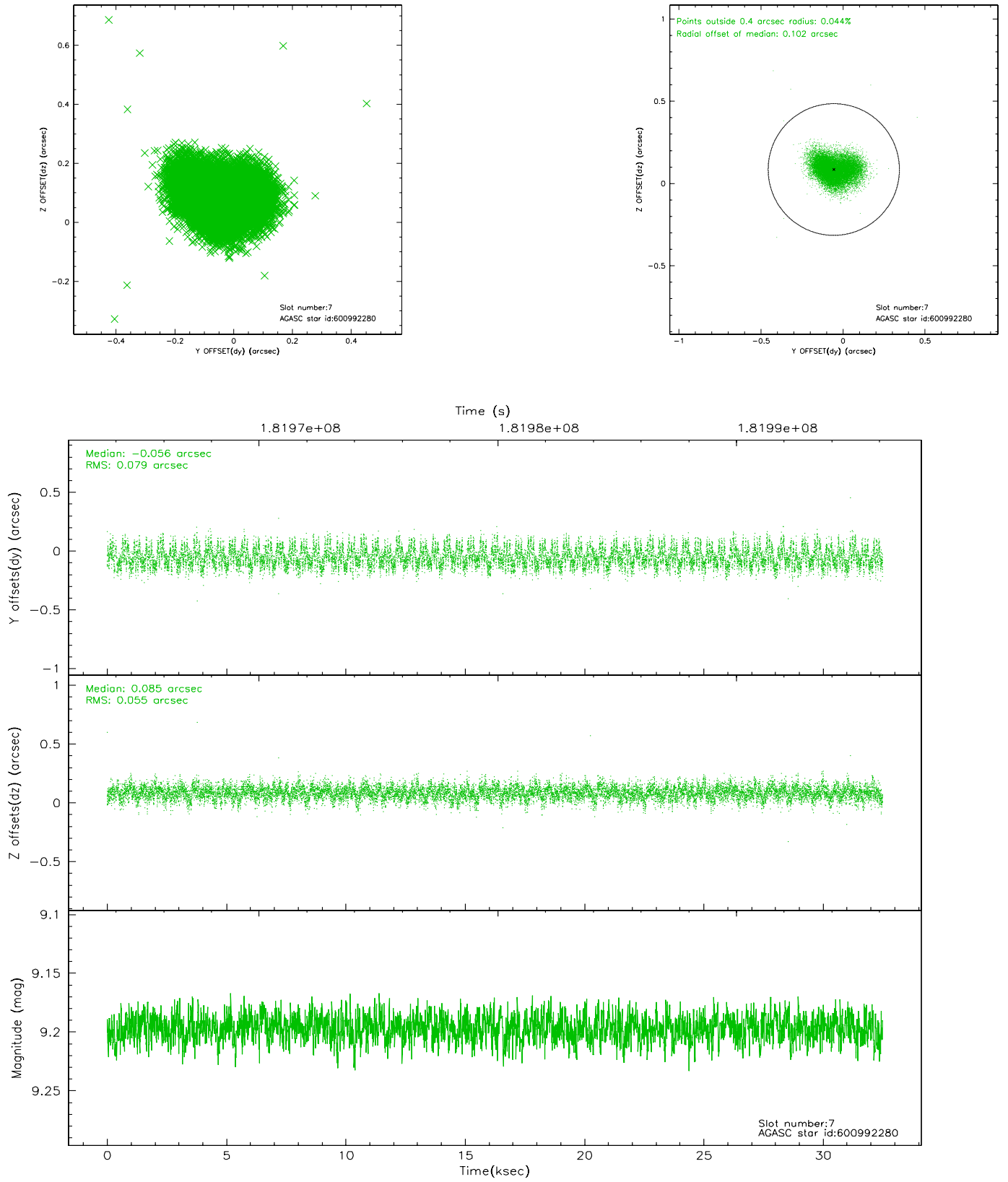
2.4.3 Slot 5



2.4.4 Slot 6

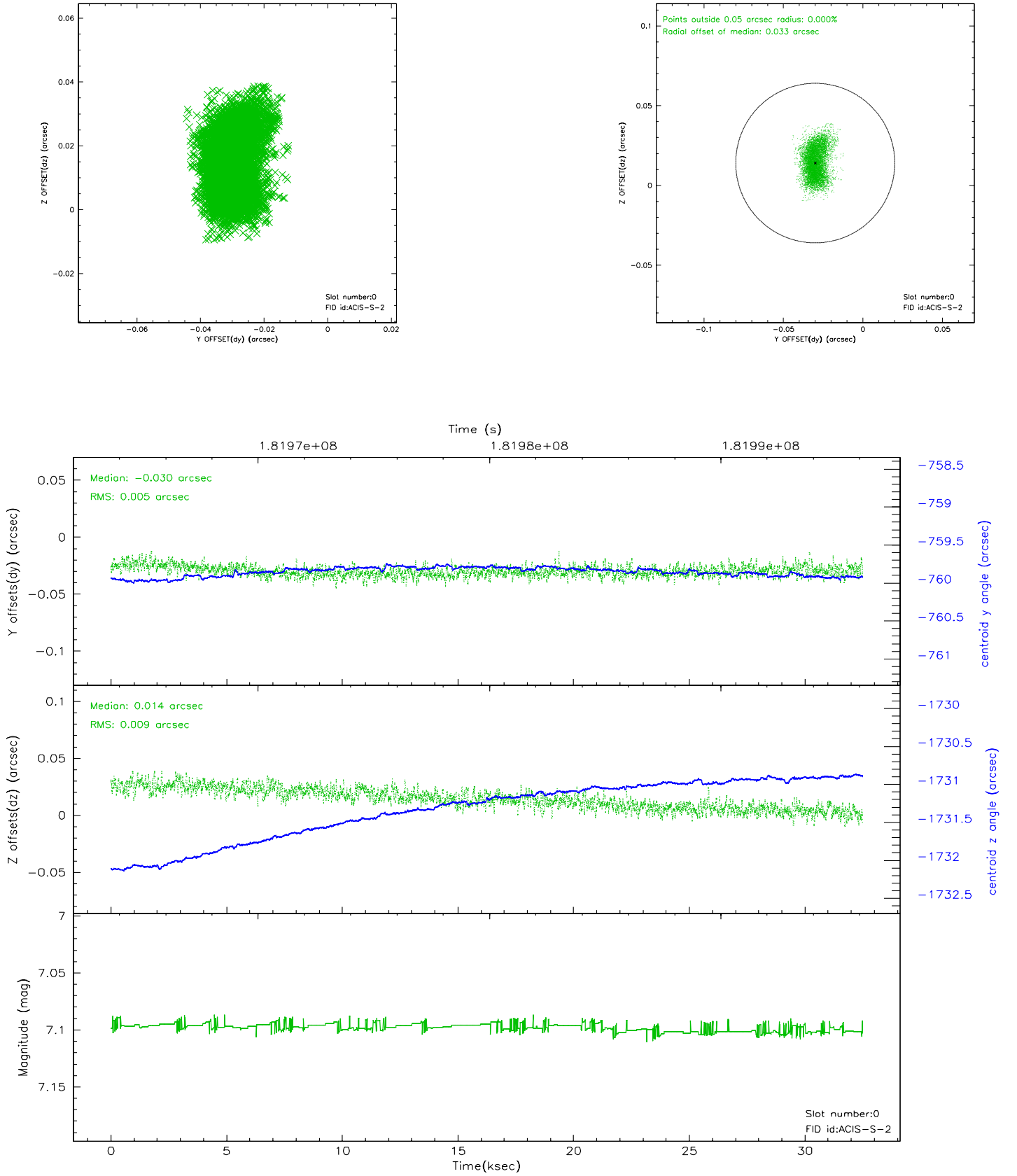


2.4.5 Slot 7

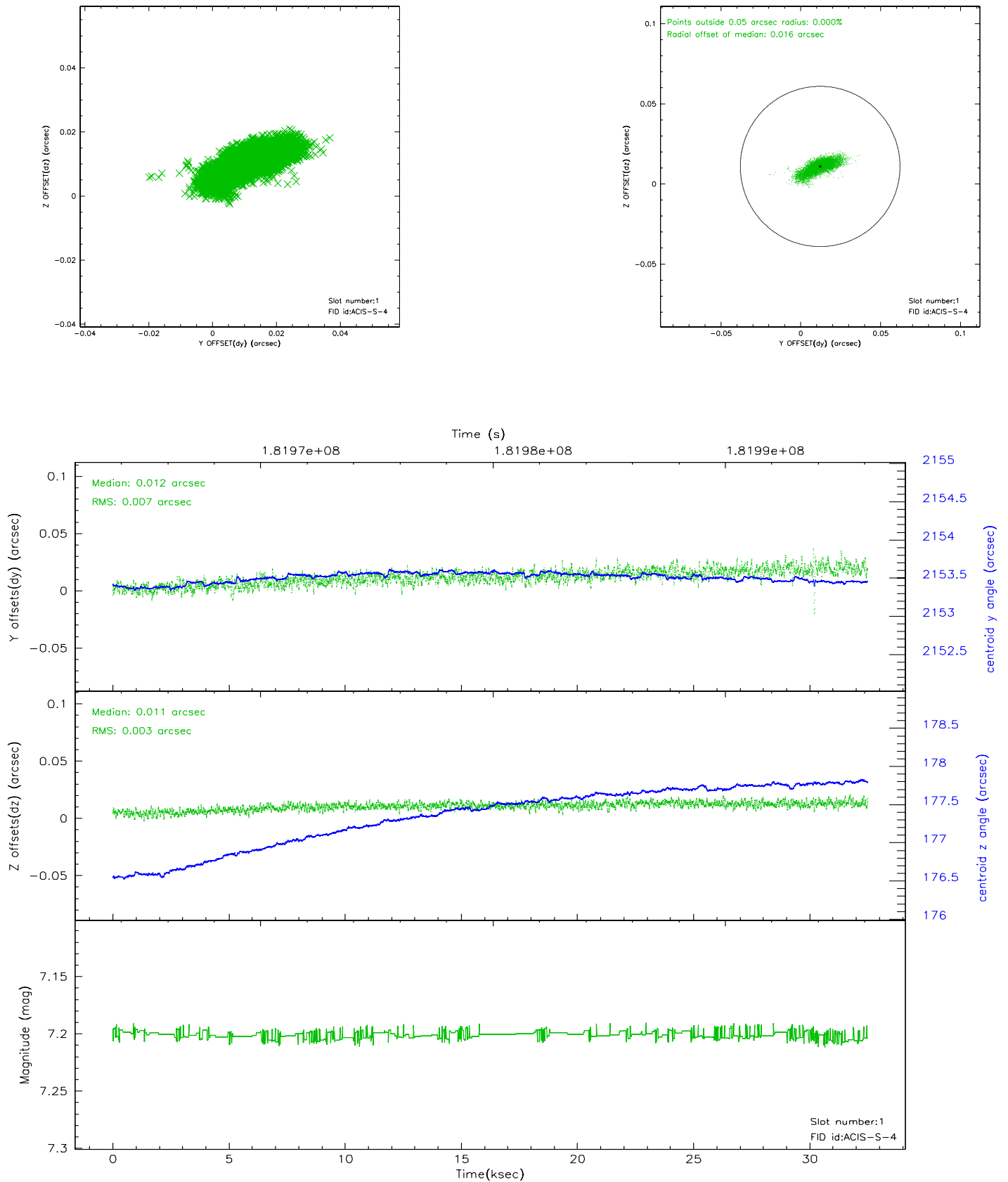


2.5 FID Slots

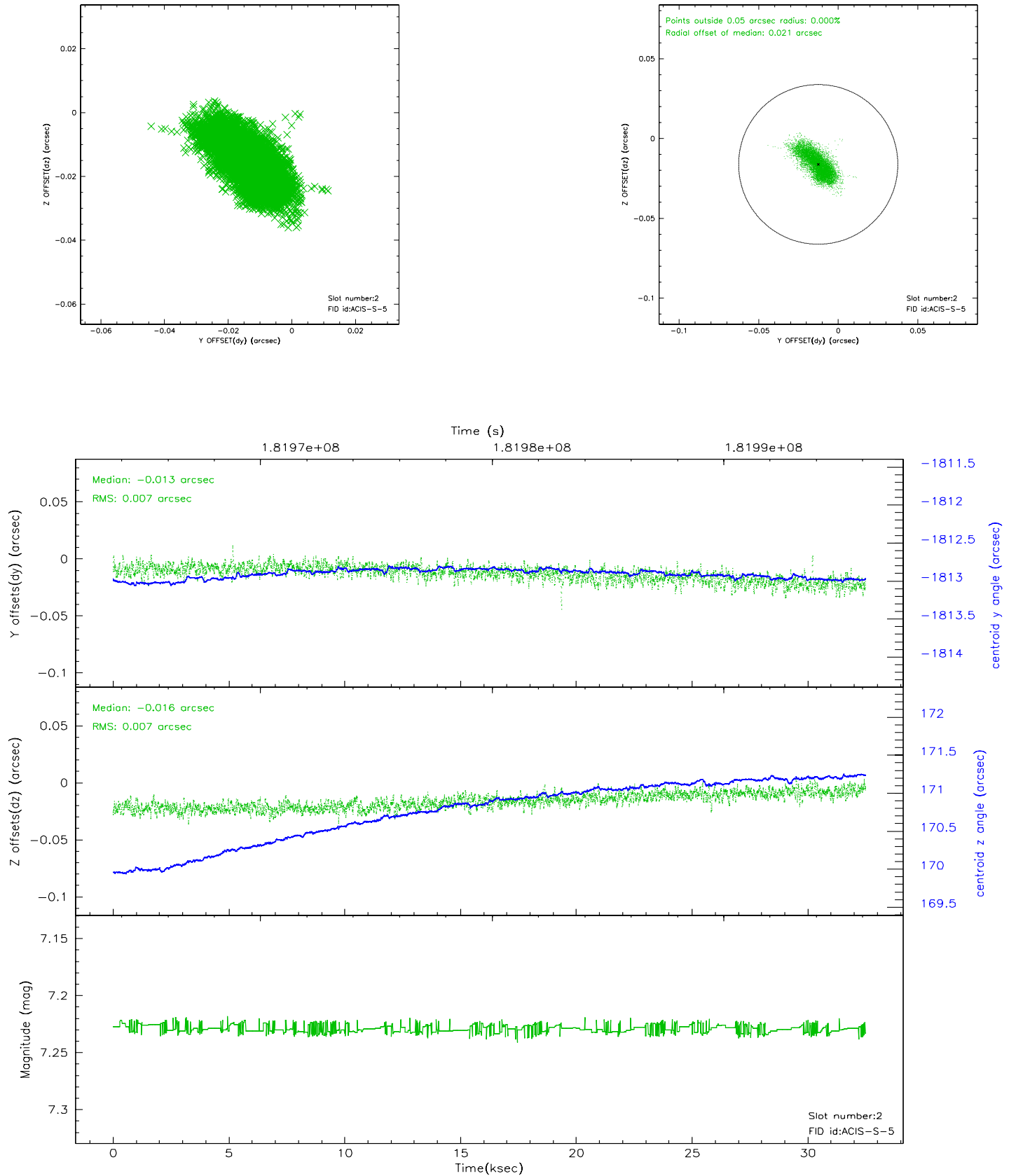
2.5.1 Slot 0



2.5.2 Slot 1

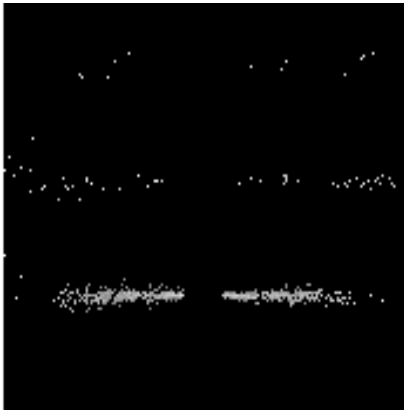


2.5.3 Slot 2



3 Gratings

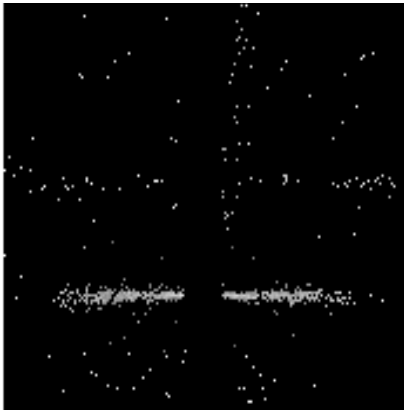
3.1 HEG Arm



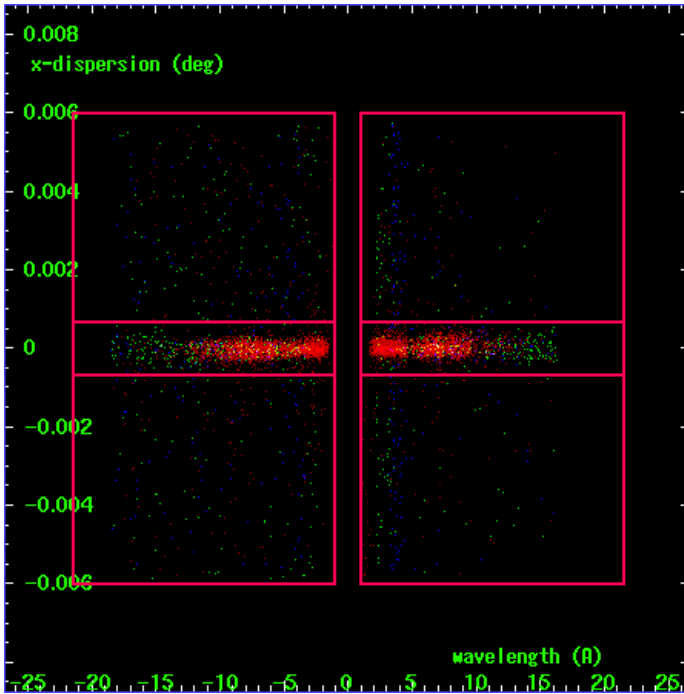
HEG Order Sort 123



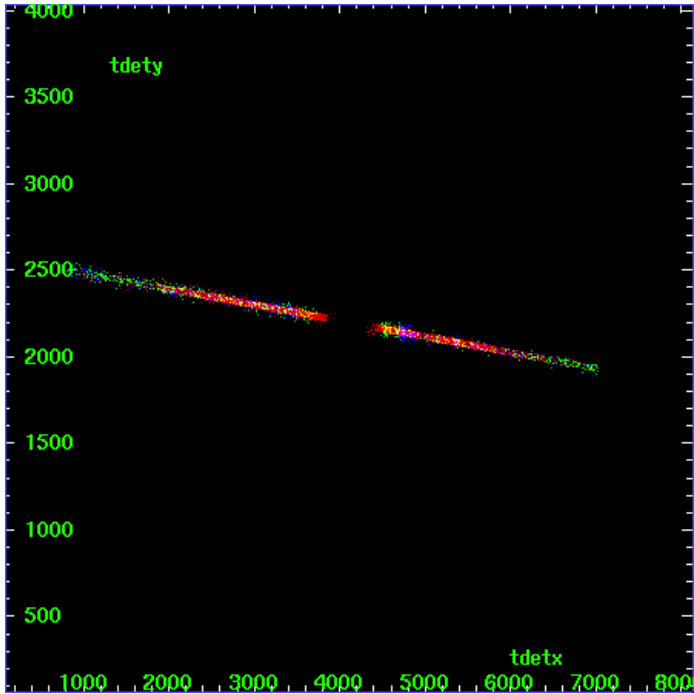
HEG Zero Order



HEG Order Sort ALL

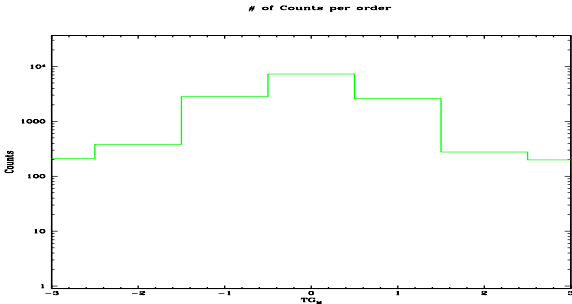


Spot Image HEG

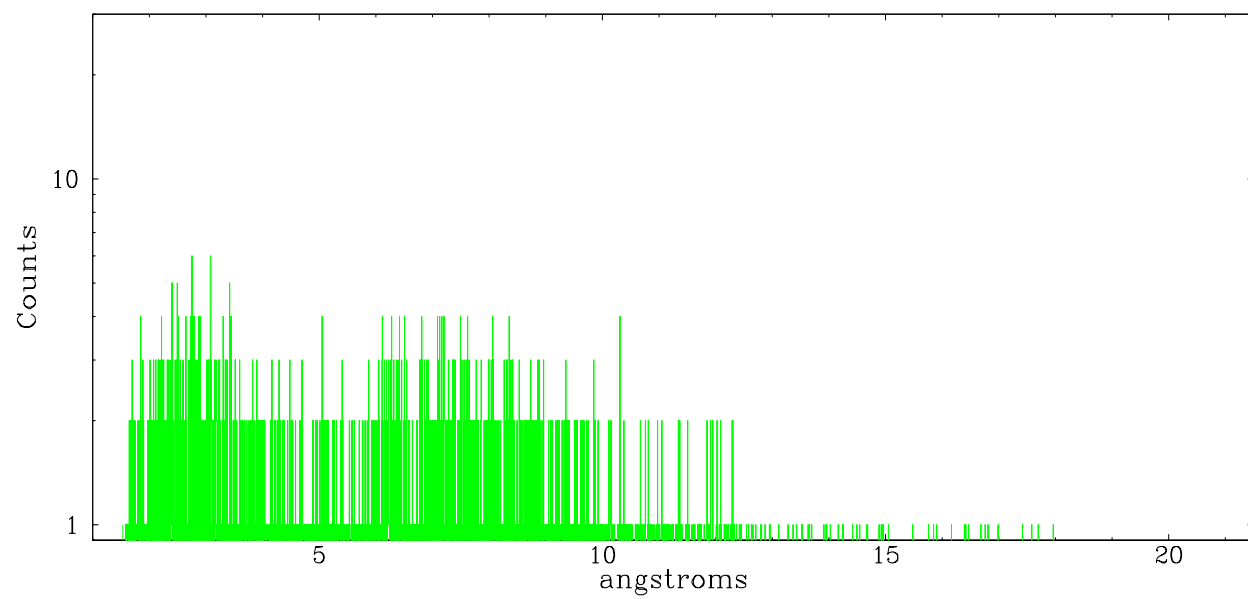


Full Detector HEG

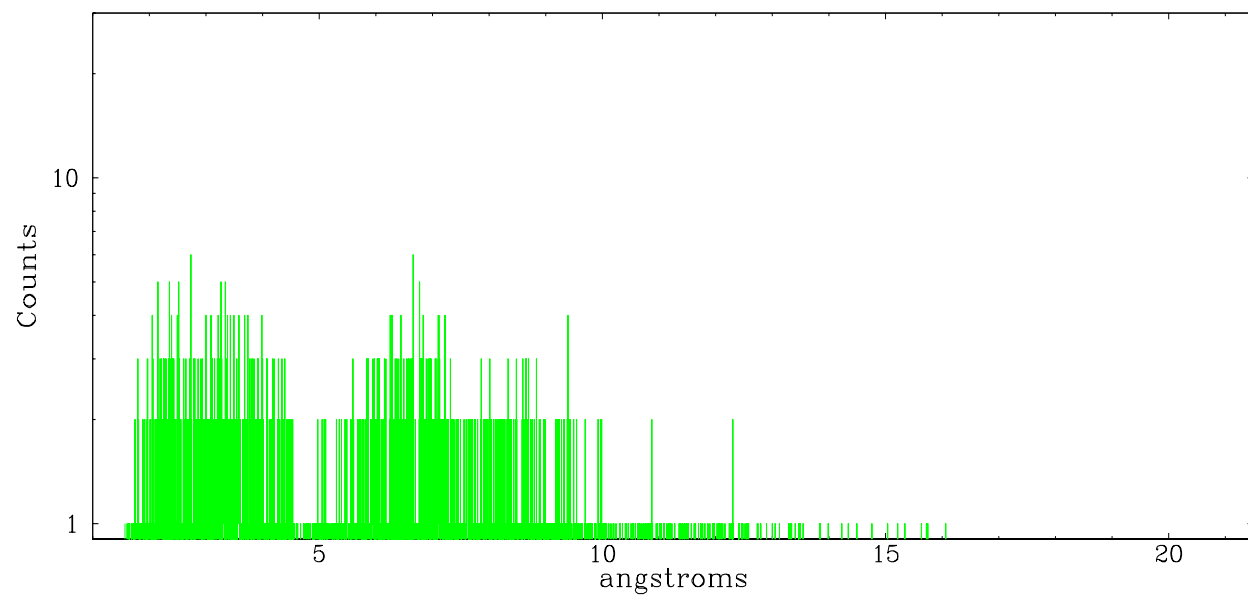
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	212	380	2824	7286	2595	276	199



neg order -1



neg order +1



3.2 MEG Arm



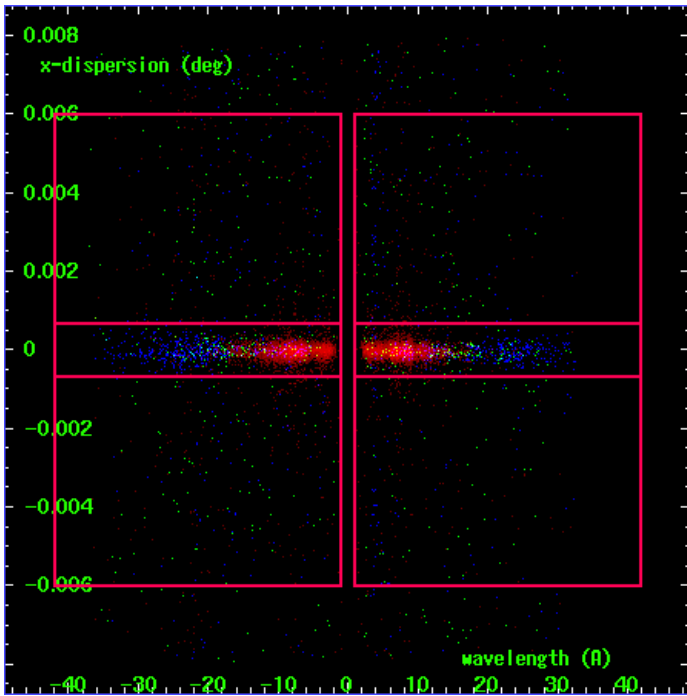
MEG Order Sort 123



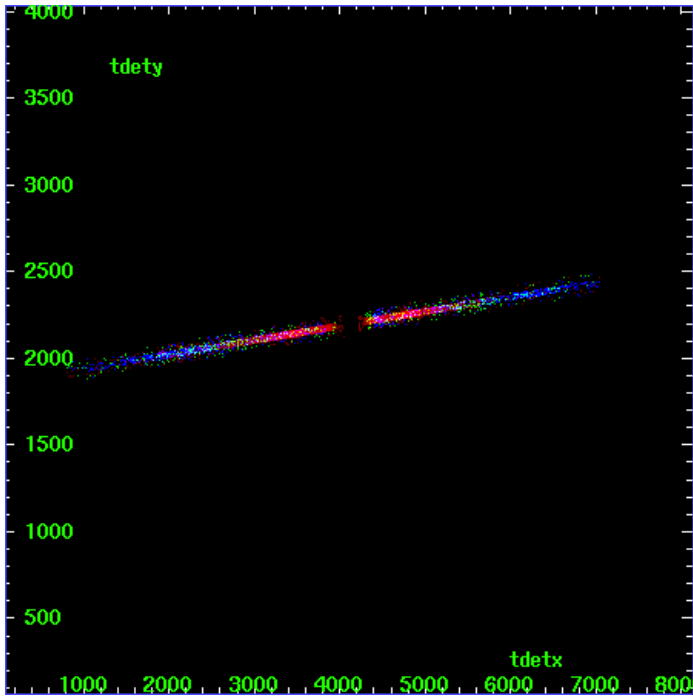
MEG Zero Order



MEG Order Sort ALL

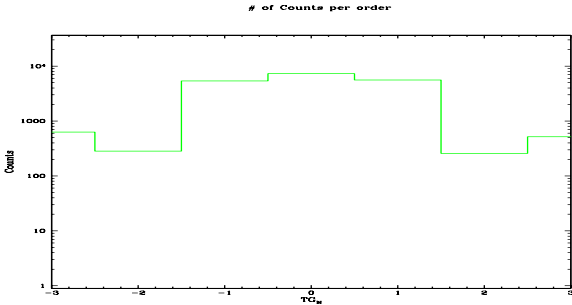


Spot Image MEG

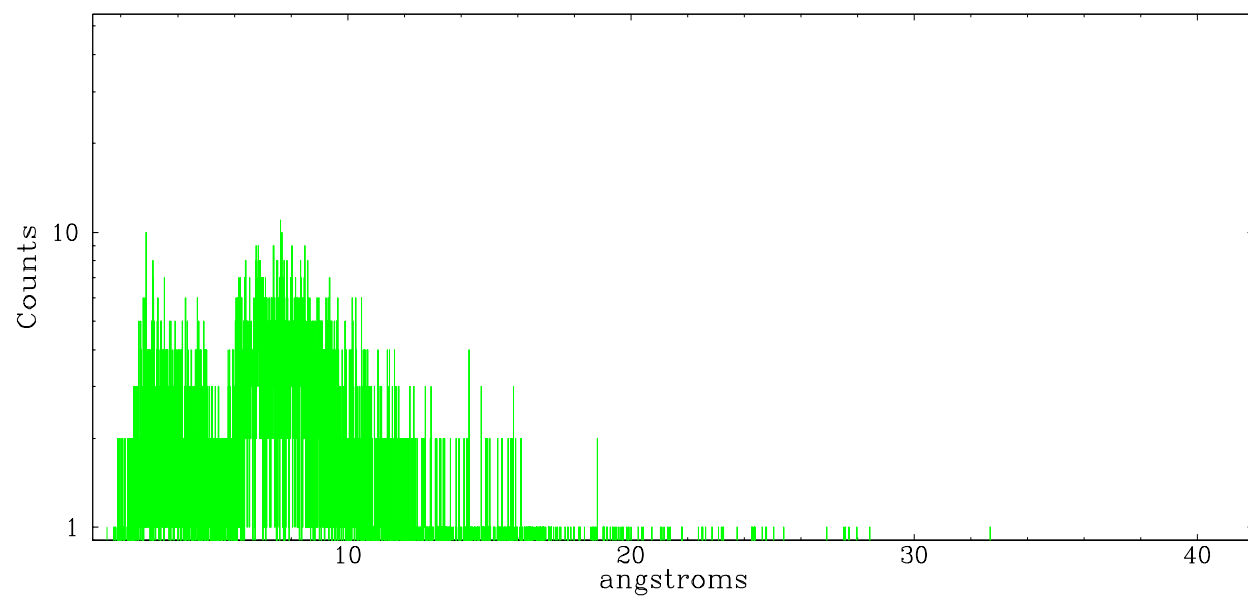


Full Detector MEG

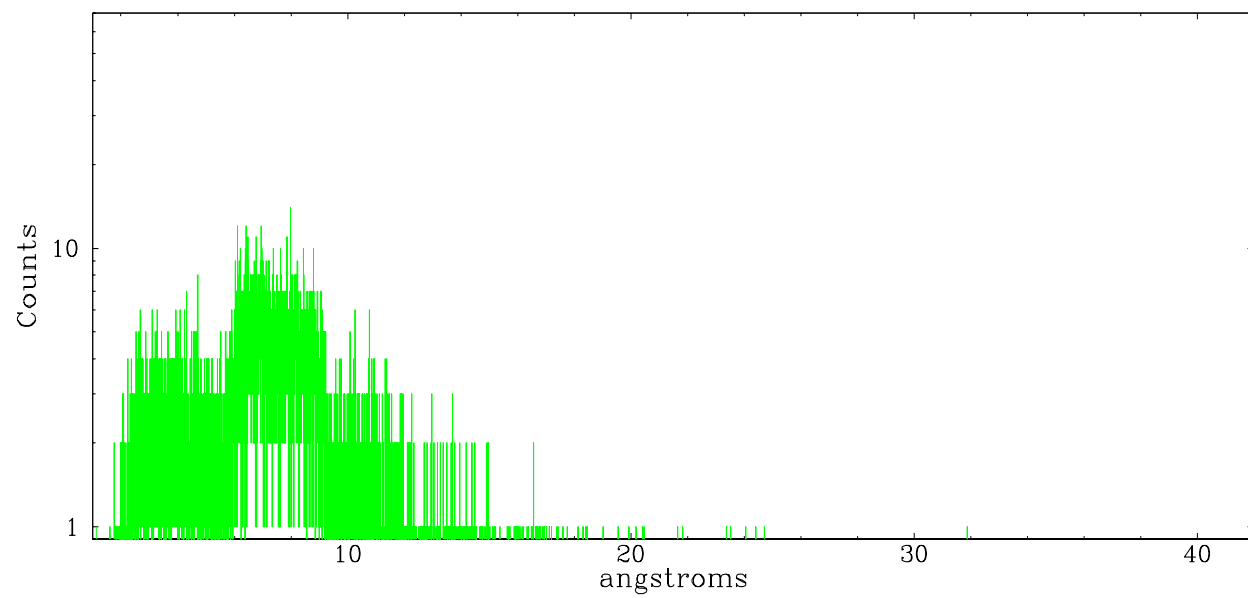
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	629	284	5357	7286	5606	258	519



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.832

A.2 Comments