

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1891 - L2 Version 001
Chandra X-Ray Center

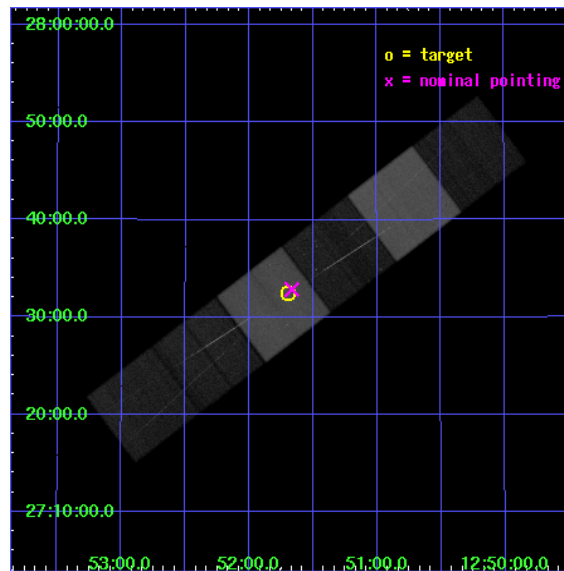
L2 Processing Date : Nov 8 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

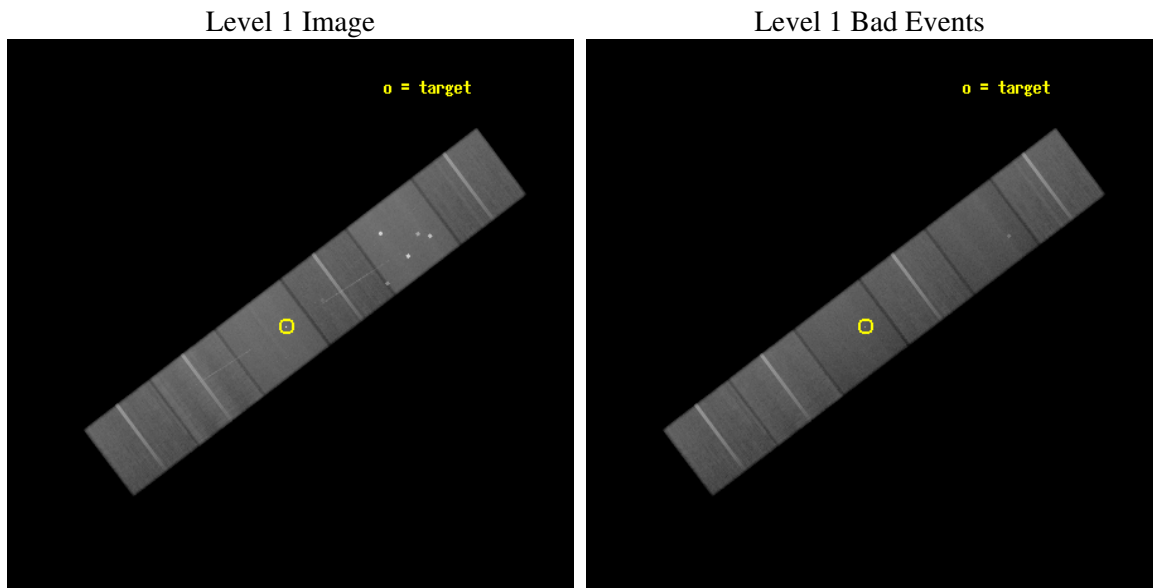
seq_num	200119
obs_id	1891
title	TORTURED CORONAE IN THE RAPID BRAKING ZONE
observer	Dr. Thomas Ayres
object	HD 111812
dtcycle	0
cycle	P
ra_targ	192.924167
dec_targ	27.540556
ra_nom	192.91670054957
dec_nom	27.547781994043
roll_nom	142.80427733256
revision	2
ontime	131872.00012282
livetime	130202.15745347
ontime4	131872.00012282
ontime5	131872.00012282
ontime6	131868.75915256
ontime7	131872.00012282
ontime8	131872.00012282
ontime9	131868.75910272
l2events	1278062



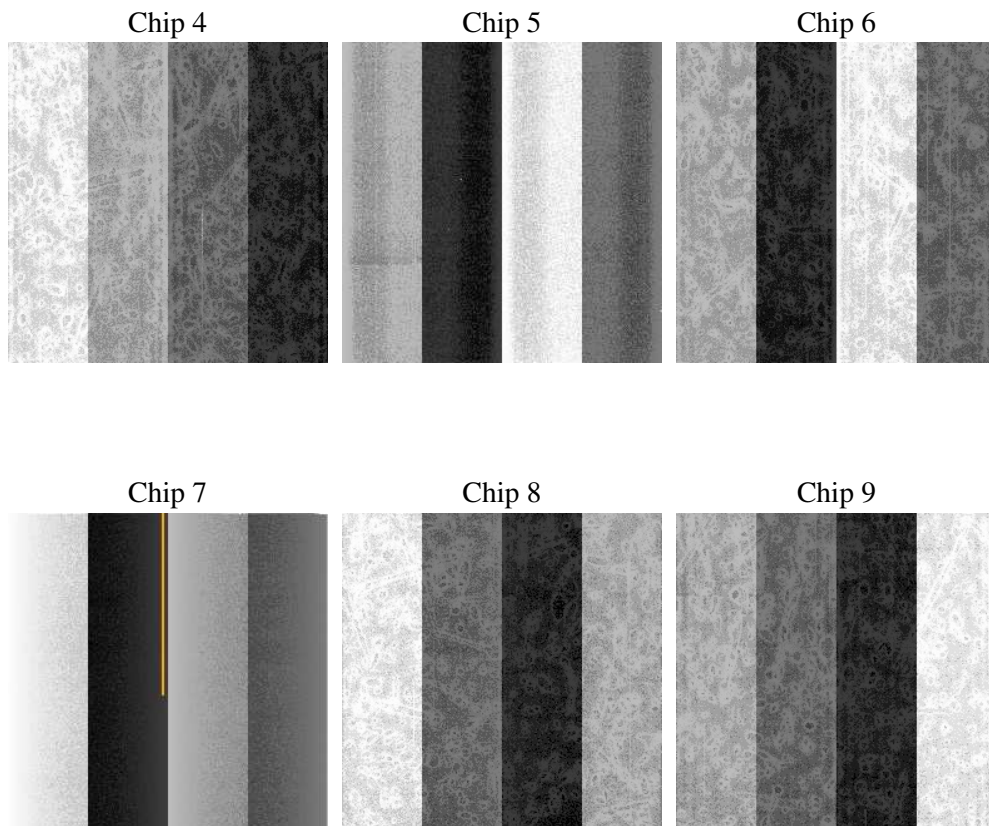
2 OBI

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	2006-11-08T06:33:13
revision	2

sched_exp_time	132000.000000
ontime	131876.51729648
ontime4	131876.51727657
ontime5	131876.51727657
ontime6	131873.27630632
ontime7	131876.51729648
ontime8	131876.51727657
ontime9	131873.27625647
l1events	6283050

2.1.4 Events

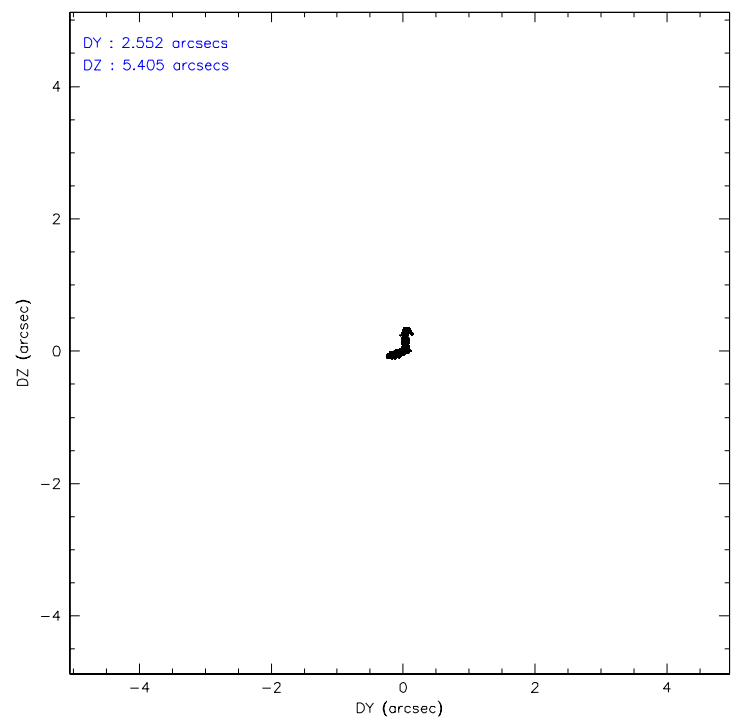
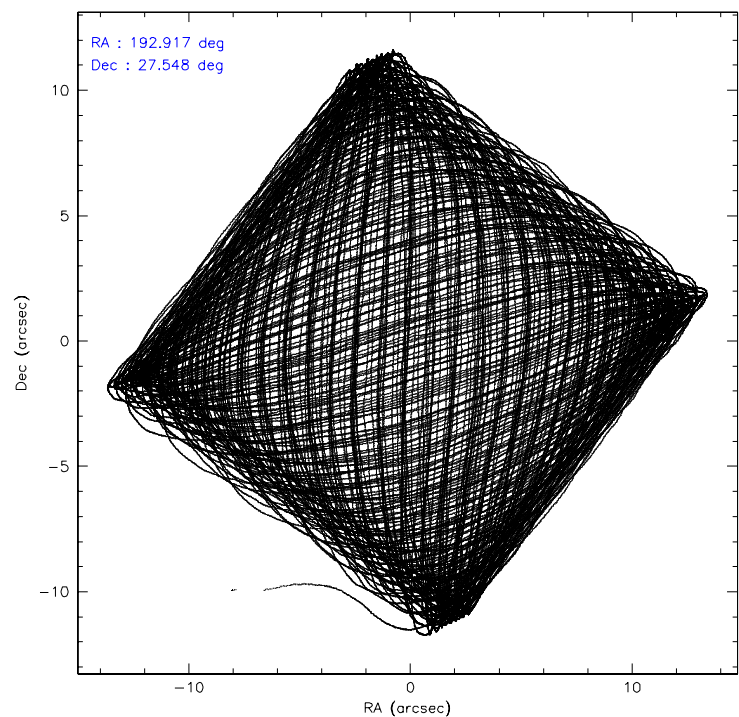
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	977128	1291748	901550	1123365	1110869	878390
rejected events	875331	683653	796119	689379	890739	777894
rejected %	89%	52%	88%	61%	80%	88%

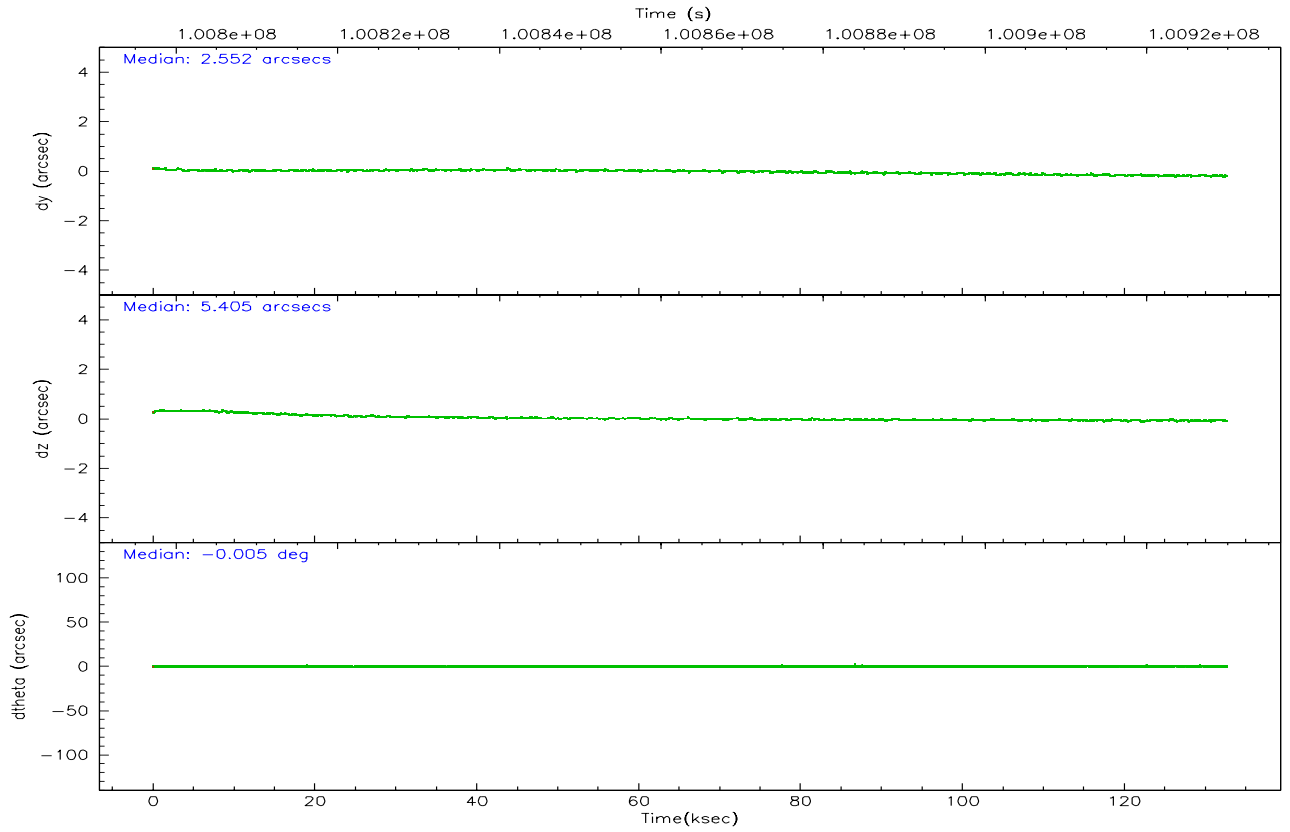
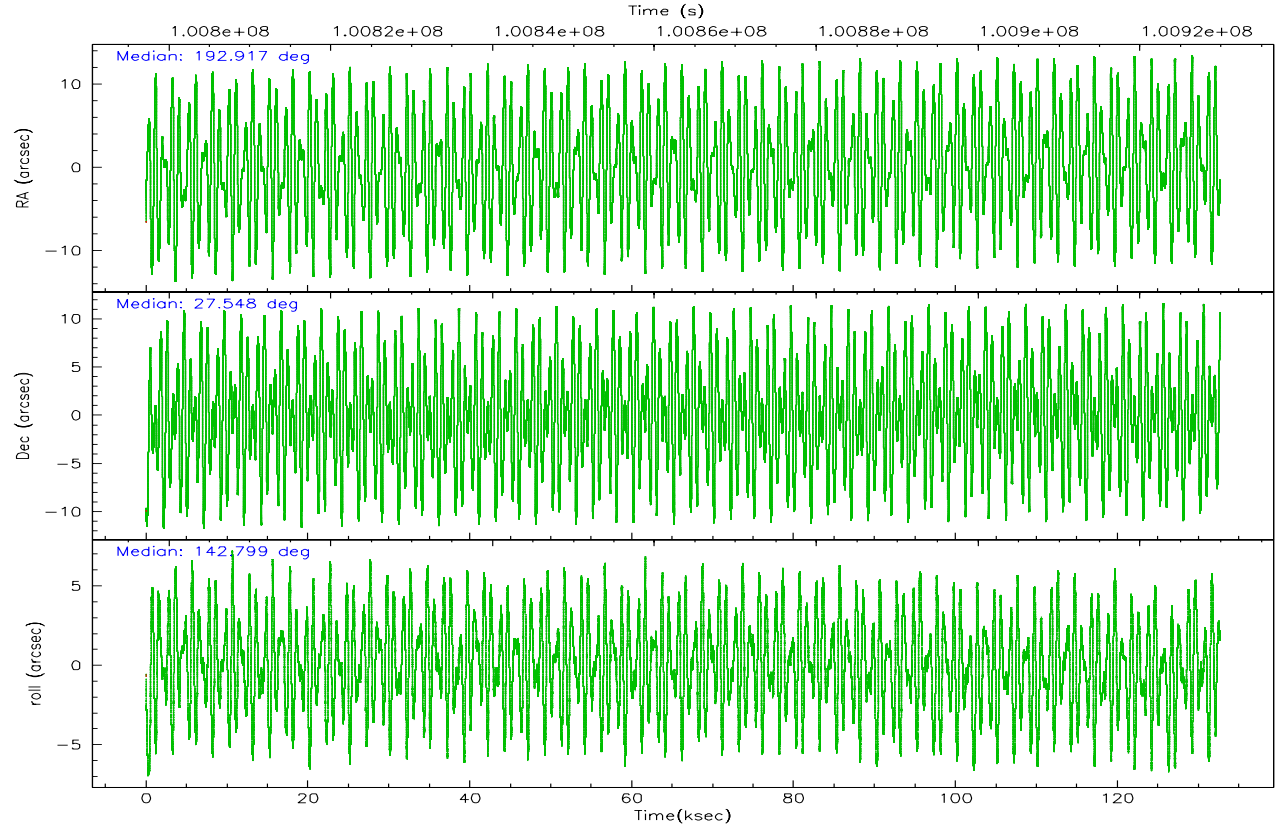
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	40438	121117	45033	27557	71196	39977
	4%	9%	4%	2%	6%	4%
grade 1 events	459	2954	438	803	632	353
	0%	0%	0%	0%	0%	0%
grade 2 events	24753	159890	20253	106480	47442	20540
	2%	12%	2%	9%	4%	2%
grade 3 events	9622	12345	10257	24104	23183	10207
	0%	0%	1%	2%	2%	1%
grade 4 events	9210	11558	10008	23191	21500	9818
	0%	0%	1%	2%	1%	1%
grade 5 events	31000	58322	36569	76355	46445	37473
	3%	4%	4%	6%	4%	4%
grade 6 events	17777	303202	19885	252663	56811	19959
	1%	23%	2%	22%	5%	2%
grade 7 events	843869	622360	759107	612212	843660	740063
	86%	48%	84%	54%	75%	84%

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	192.947297	192.9167005495726	Subarray requested	NONE	NONE
Pointing Dec	27.544616	27.54778199404318	Alternating exposures requested	N	N
Pointing Roll	142.633500	142.8042773325558	Primary exposure time	0.000000	3.2
Window start time	100742464.184000	100742464.184000			
Window stop time	101260864.184000	101260864.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	100797902.184000	100796682.08623			
Observation start date	2001-03-12T15:23:58	2001-03-12T15:04:42			
Observation end time	100929902.184000	100931011.92892			
Observation end date	2001-03-14T04:03:58	2001-03-14T04:23:31			
Read mode	TIMED	TIMED			

2.3 Aspect



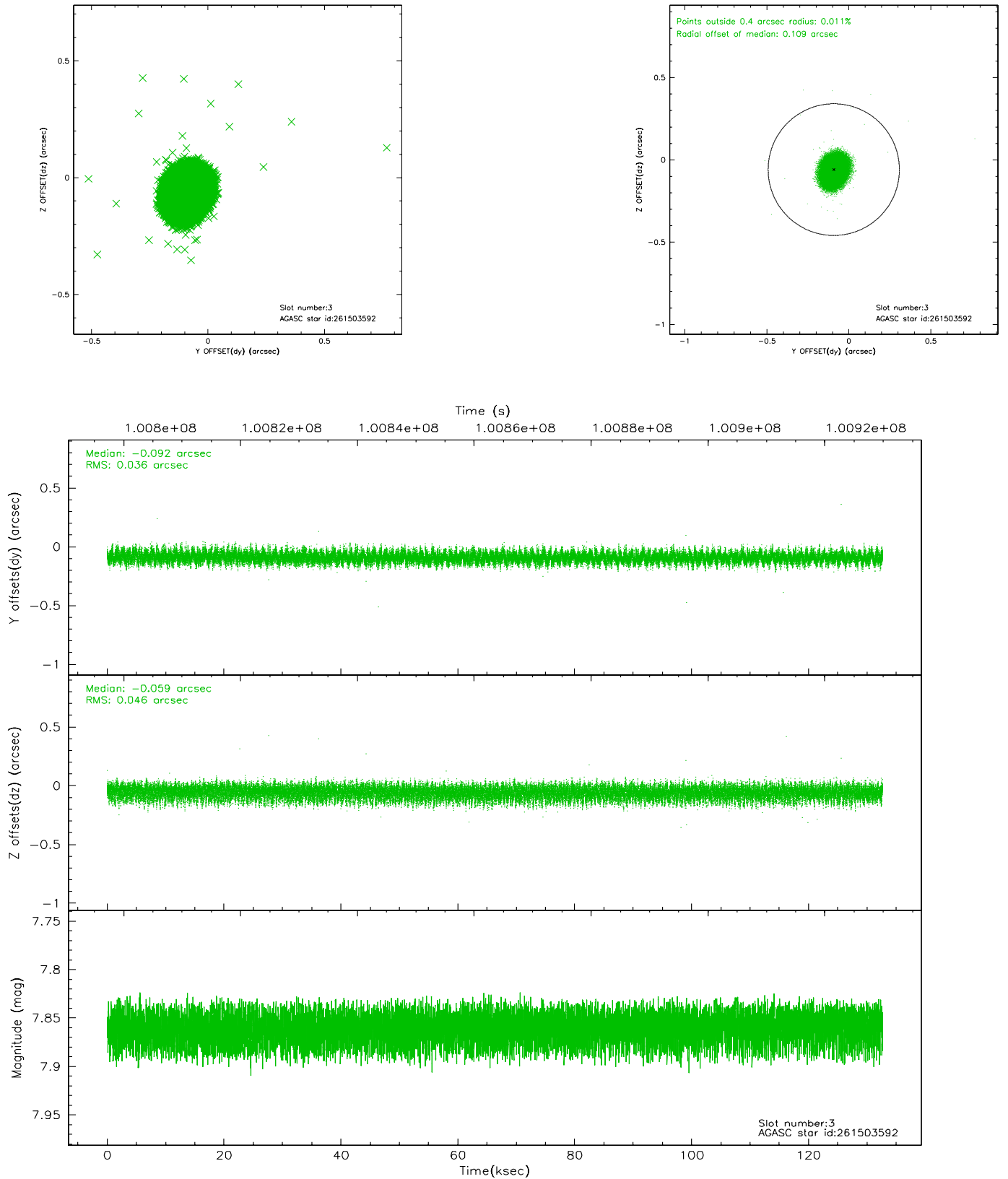


Slot Statistics

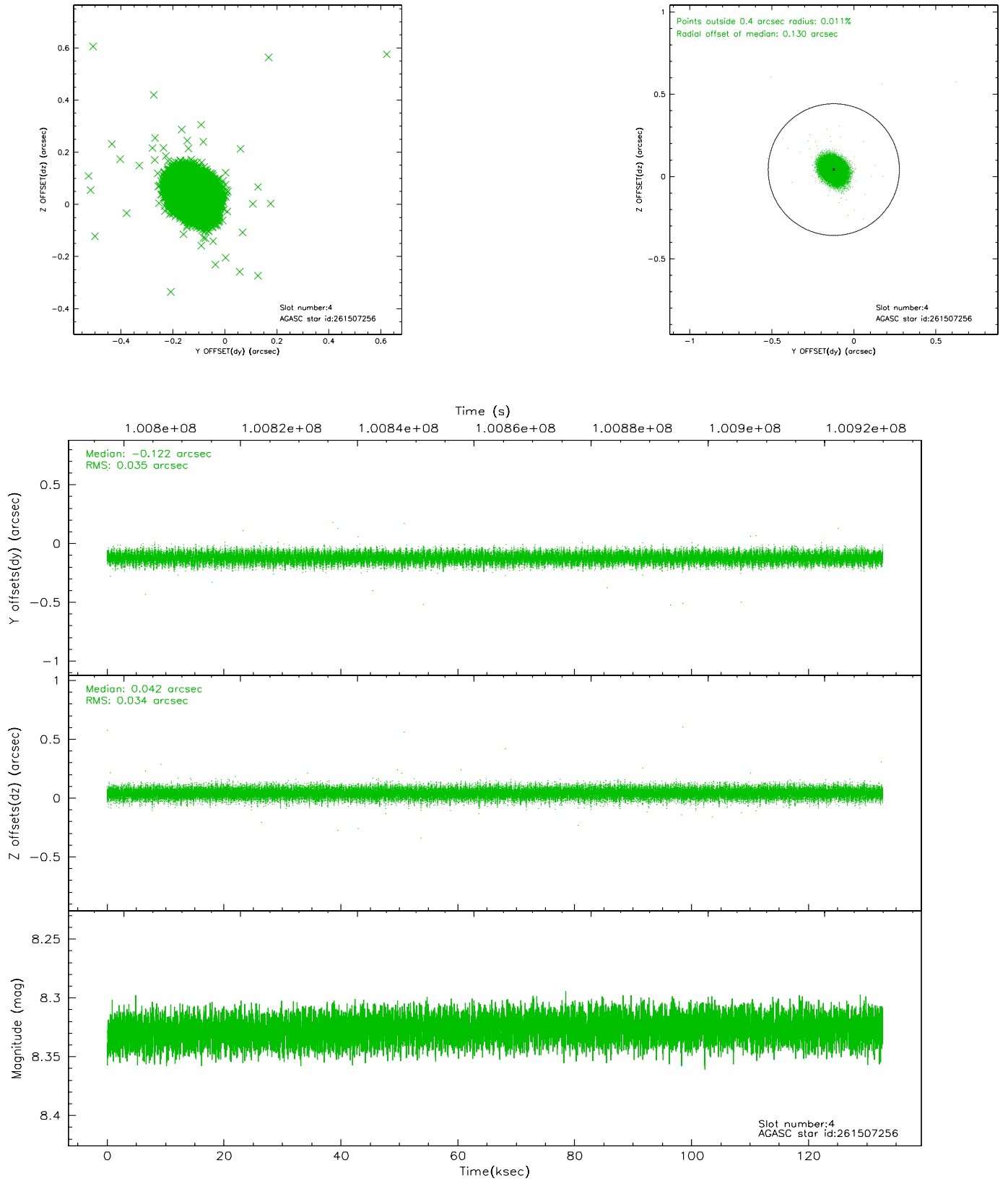
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	32370	-0.027	0.019	0.007	0.011	0.000000	0.000000	-755.13	-1726.56
1	FID	ACIS-S-4	7.20	32369	-0.065	0.008	0.006	0.010	0.000000	0.000000	2158.11	182.09
2	FID	ACIS-S-5	7.24	32370	0.060	-0.018	0.007	0.011	0.000000	0.000000	-1808.07	175.52
3	GUIDE	261503592	7.86	64736	-0.092	-0.059	0.063	0.101	193.784432	27.766358	-1629.32	-2260.50
4	GUIDE	261507256	8.33	64723	-0.122	0.042	0.050	0.083	193.022402	28.129301	1088.11	-1817.82
5	GUIDE	261508968	9.11	64707	0.039	0.006	0.083	0.133	192.822711	28.349629	2073.11	-2064.02
6	GUIDE	261502568	9.38	64671	0.083	-0.073	0.079	0.129	193.527777	27.676053	-1180.70	-1503.18
7	GUIDE	261106008	9.29	64700	0.093	0.086	0.091	0.148	191.902860	27.409319	2365.80	2401.90

2.4 Star Slots

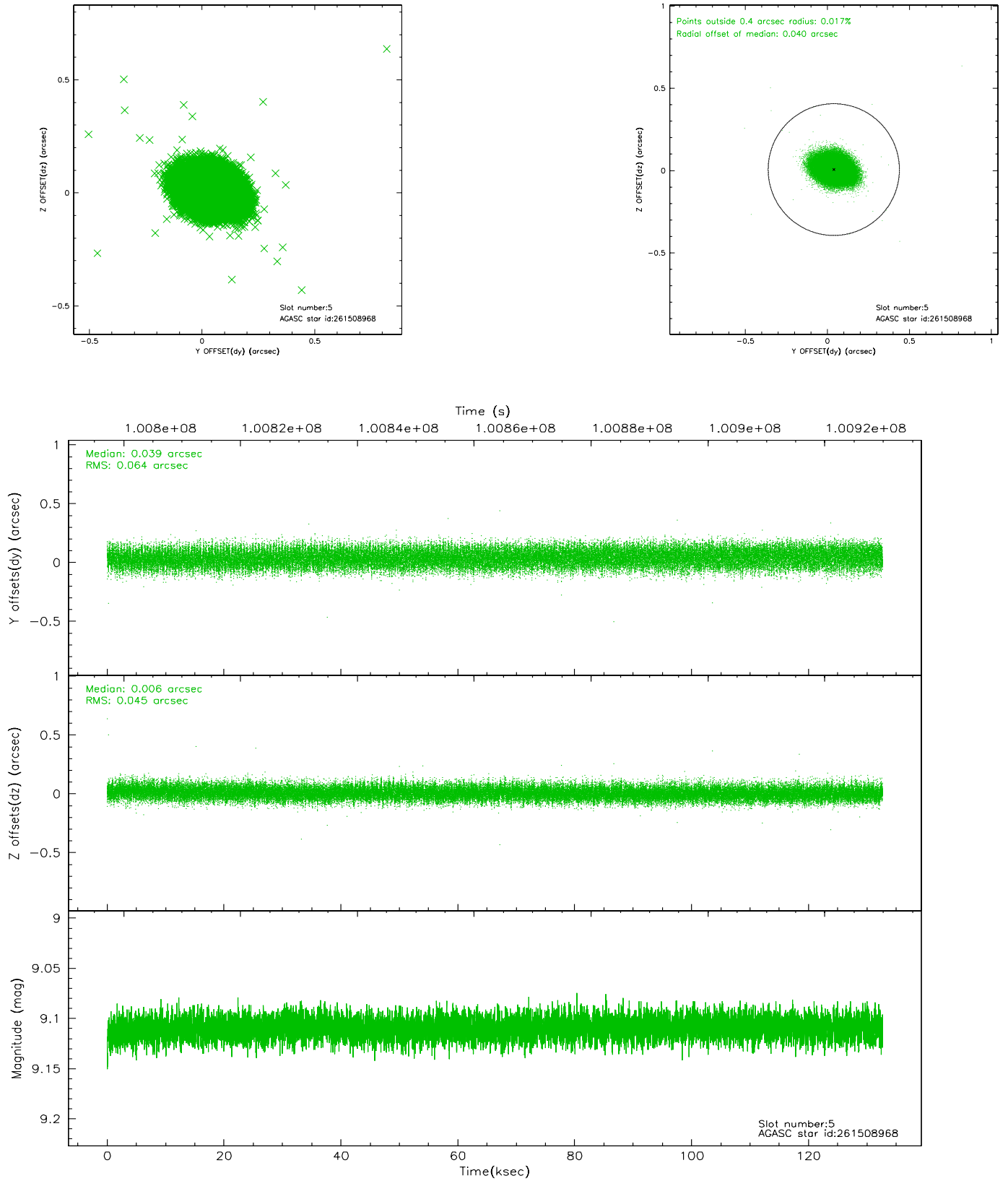
2.4.1 Slot 3



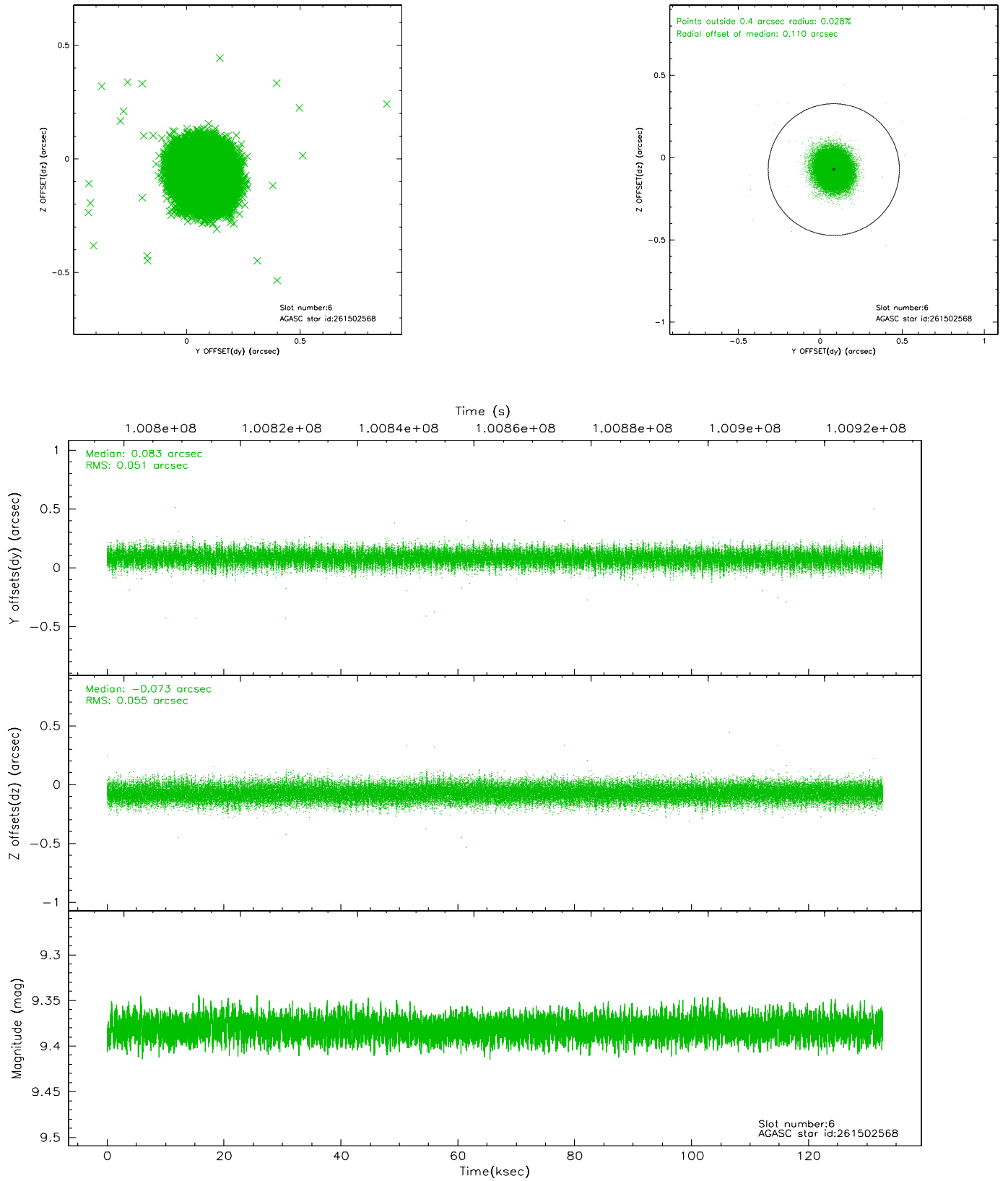
2.4.2 Slot 4



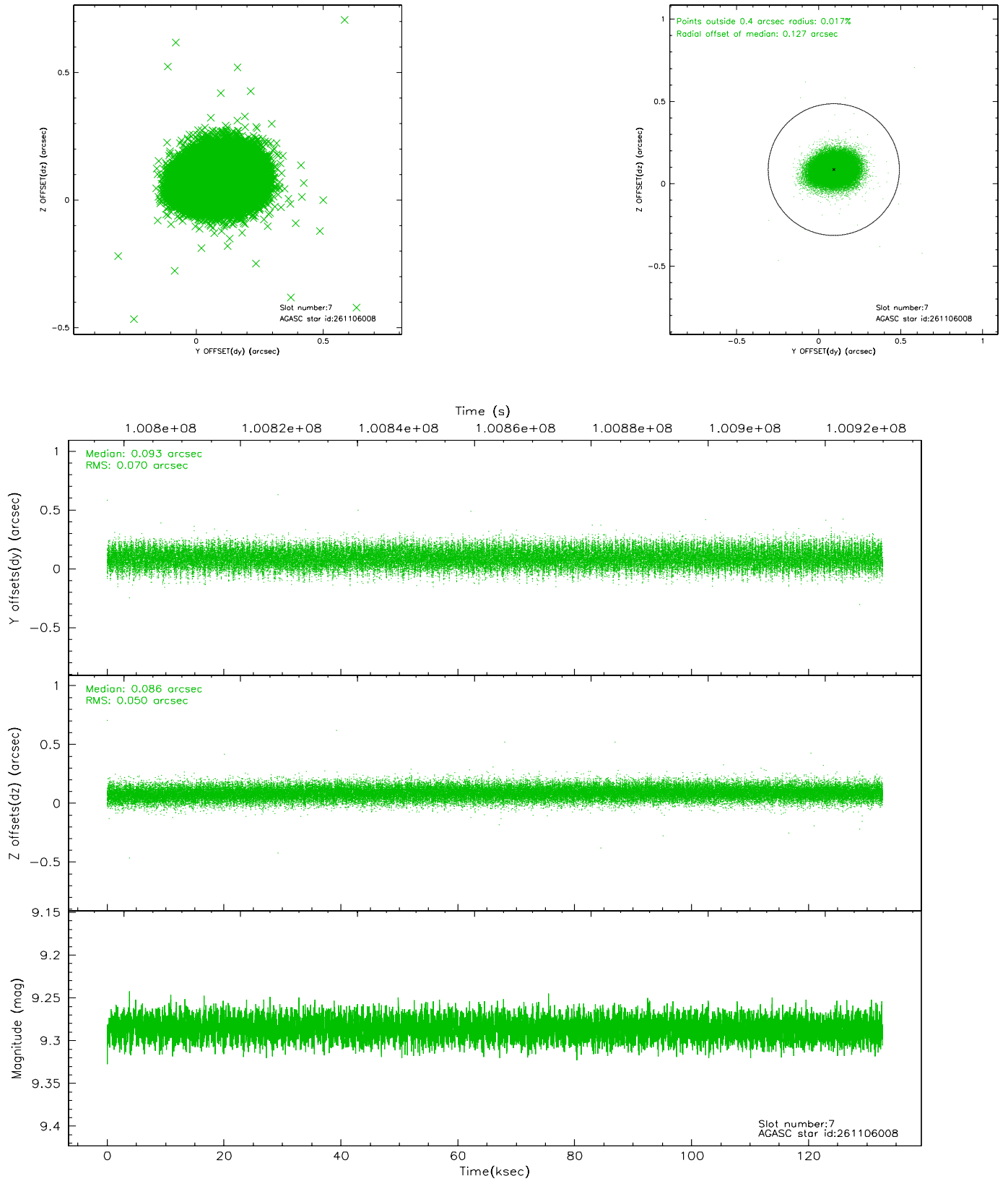
2.4.3 Slot 5



2.4.4 Slot 6

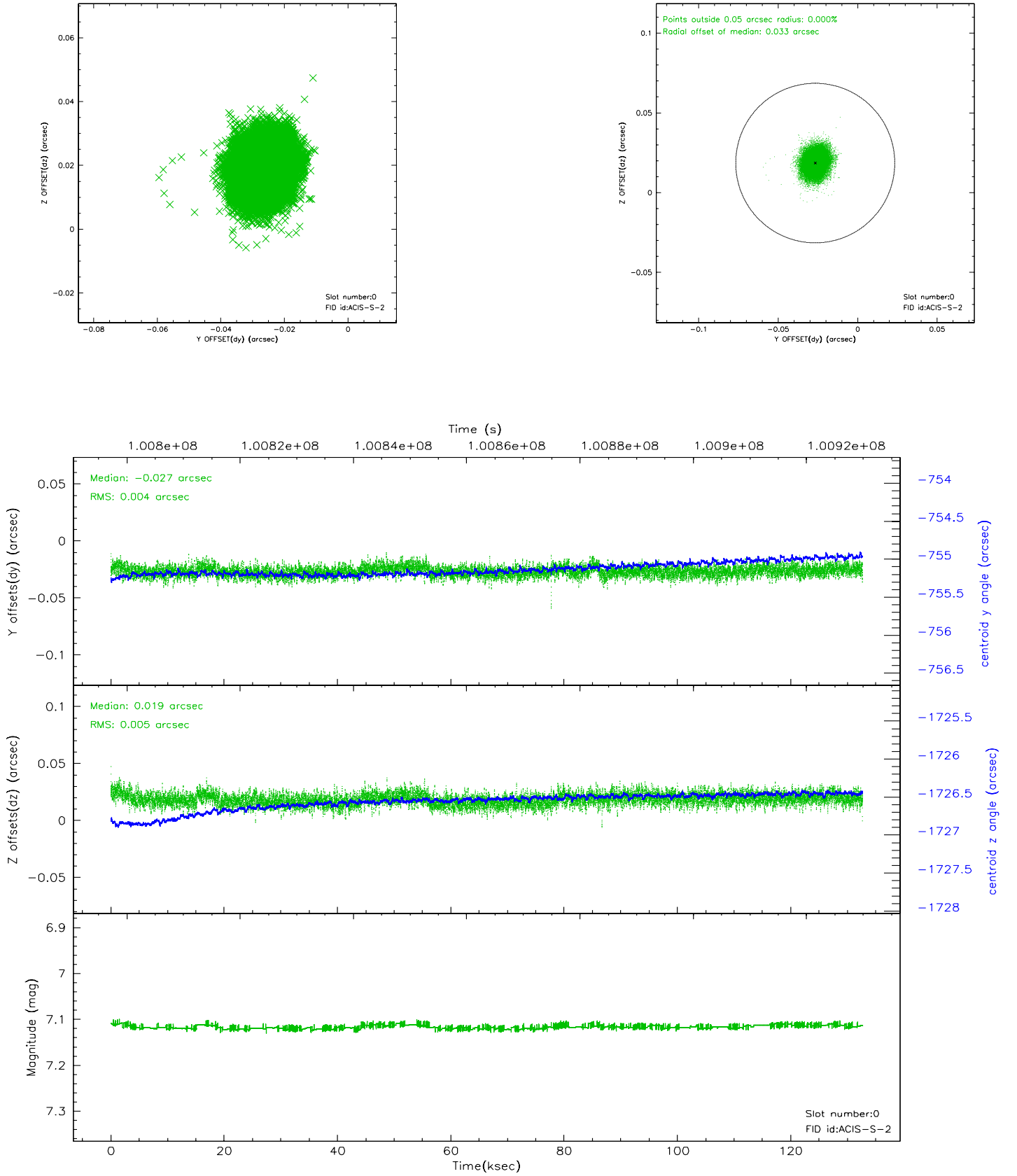


2.4.5 Slot 7

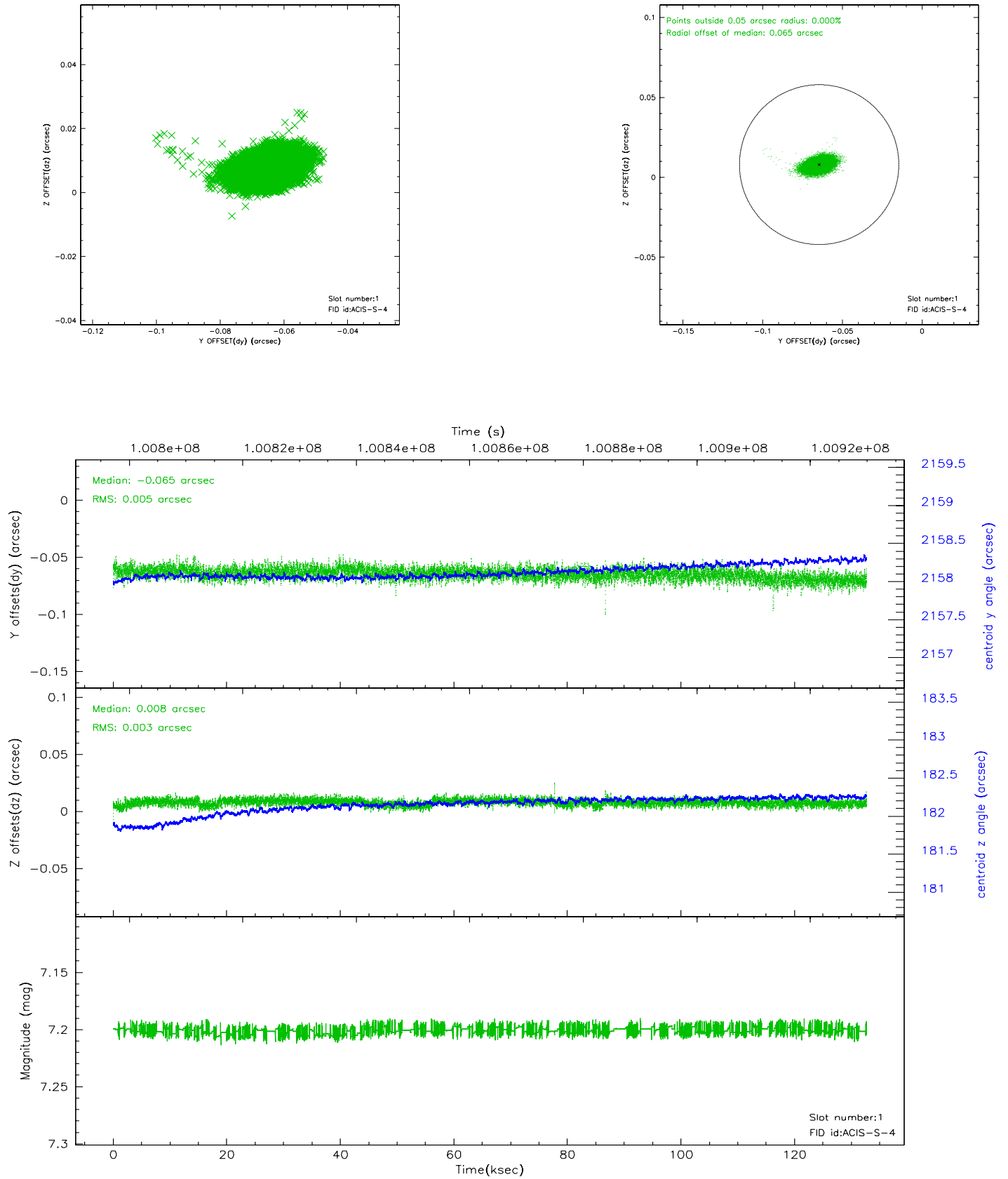


2.5 FID Slots

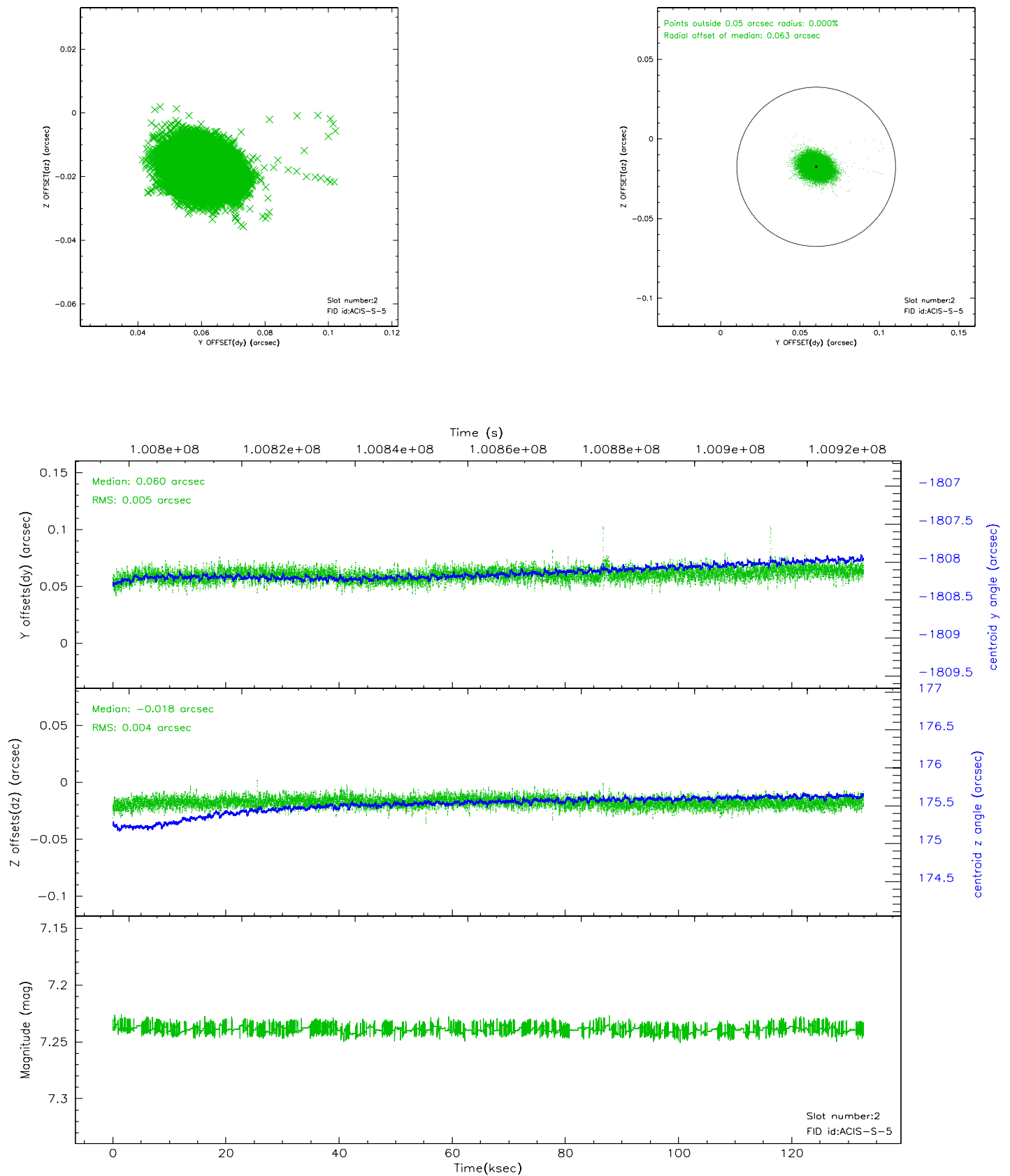
2.5.1 Slot 0



2.5.2 Slot 1

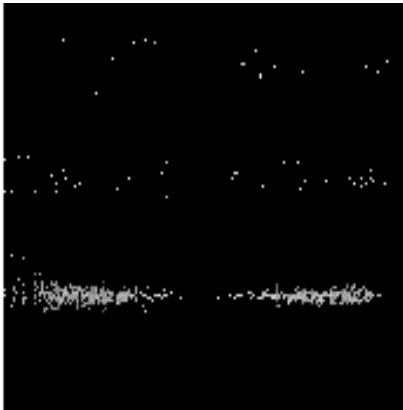


2.5.3 Slot 2

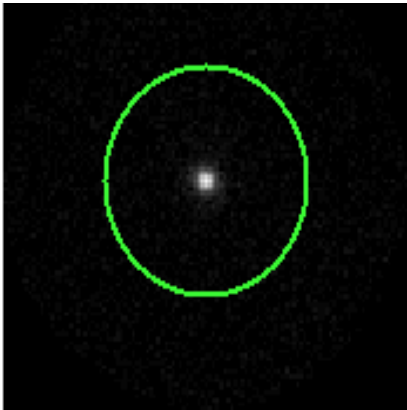


3 Gratings

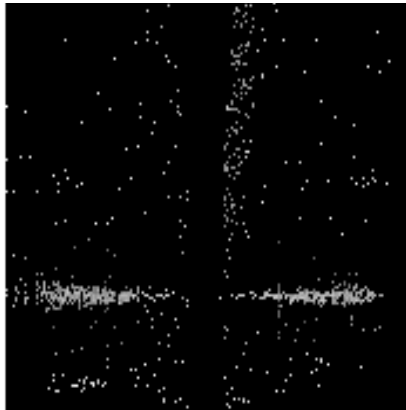
3.1 HEG Arm



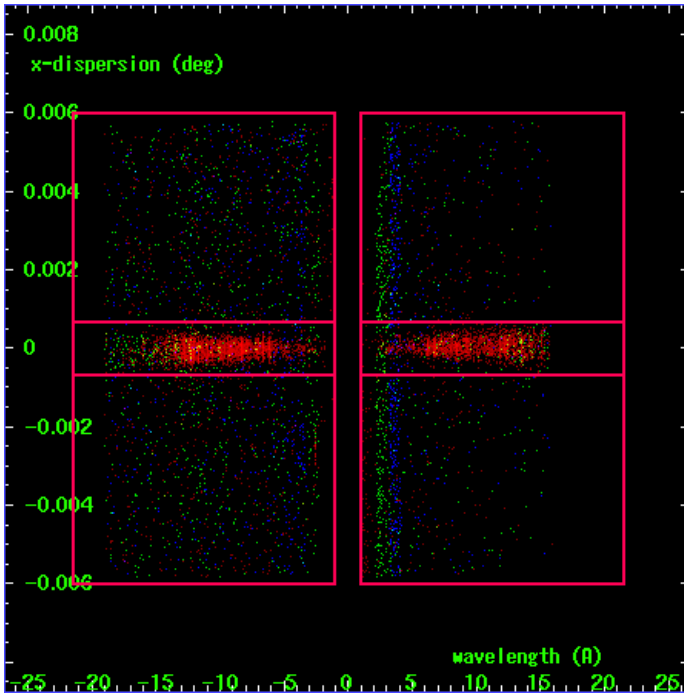
HEG Order Sort 123



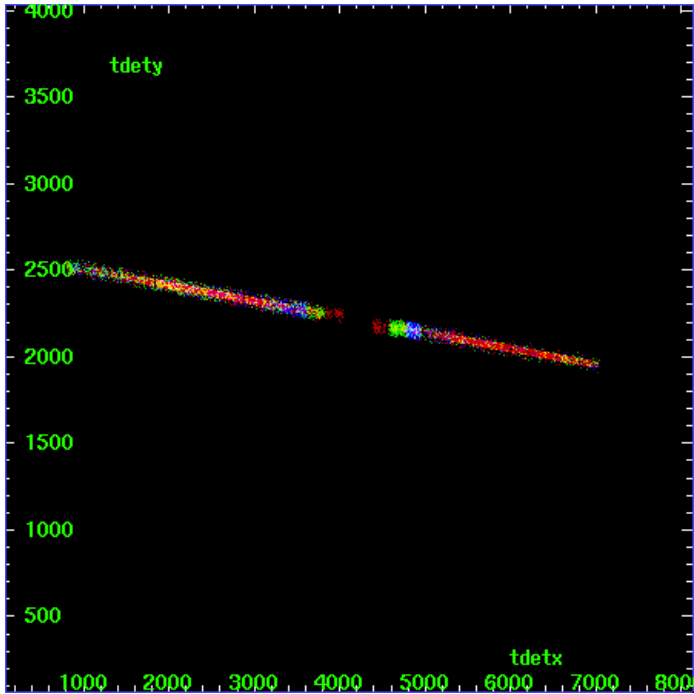
HEG Zero Order



HEG Order Sort ALL

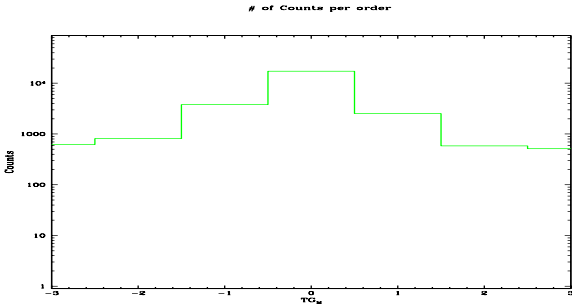


Spot Image HEG

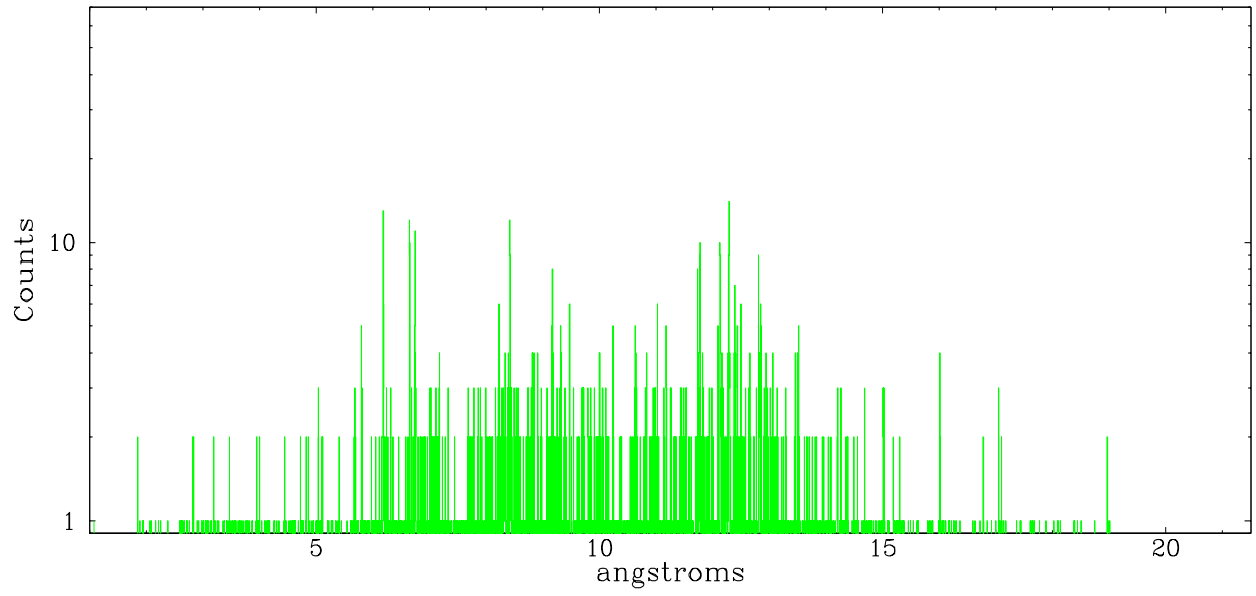


Full Detector HEG

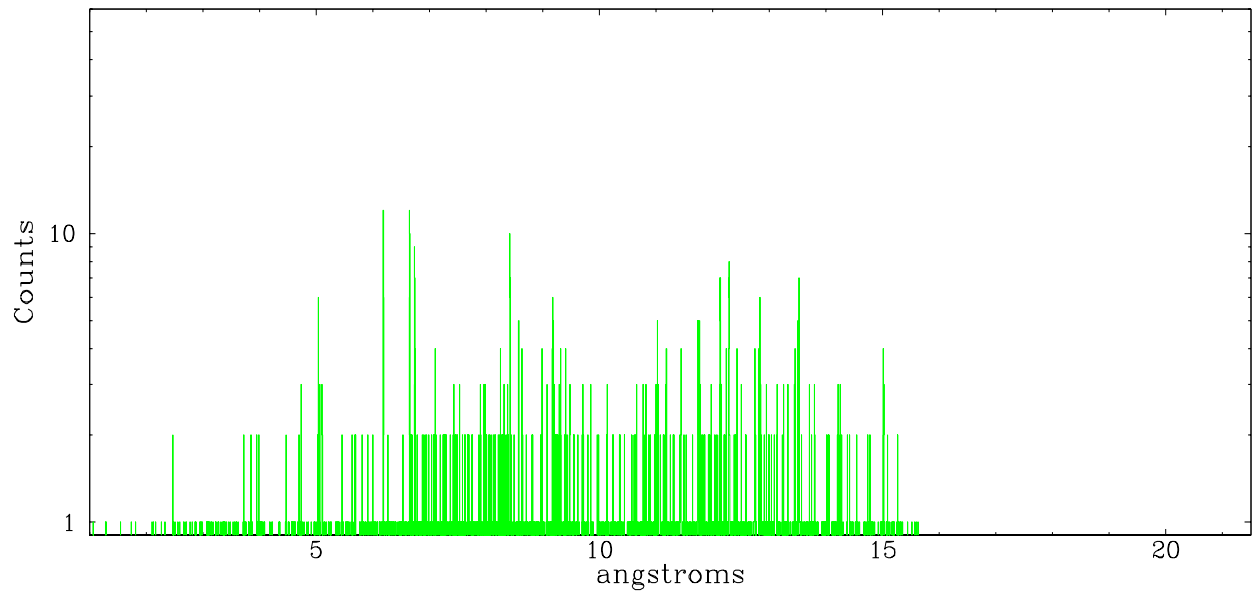
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	621	814	3808	17331	2534	585	516



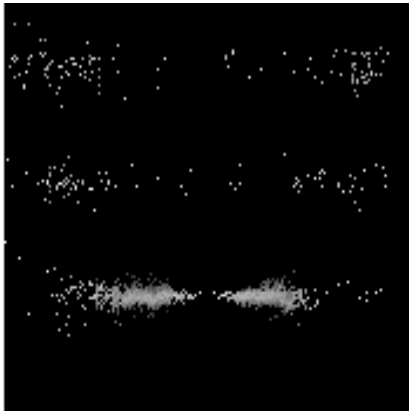
heg order -1



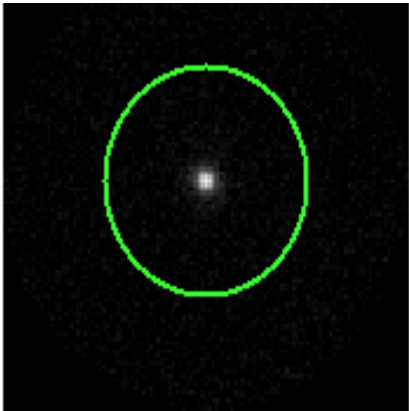
heg order +1



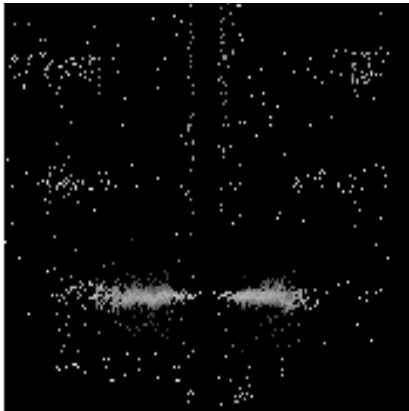
3.2 MEG Arm



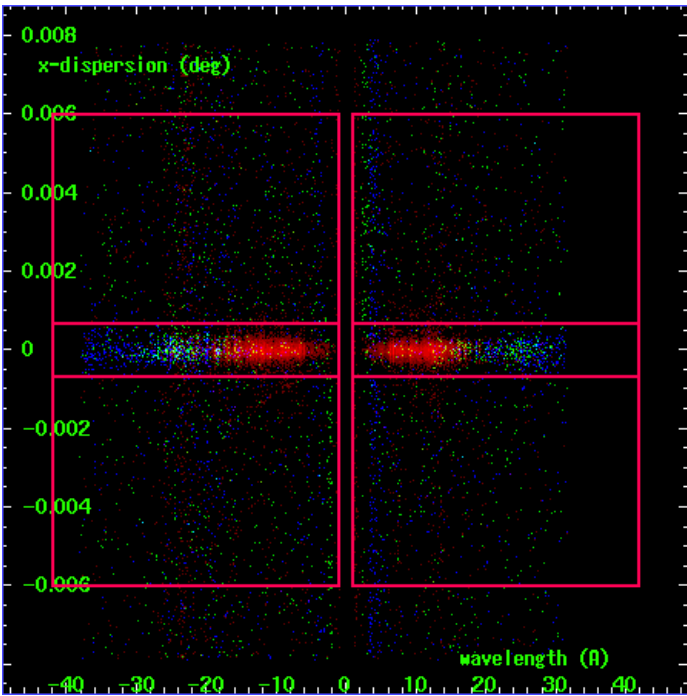
MEG Order Sort 123



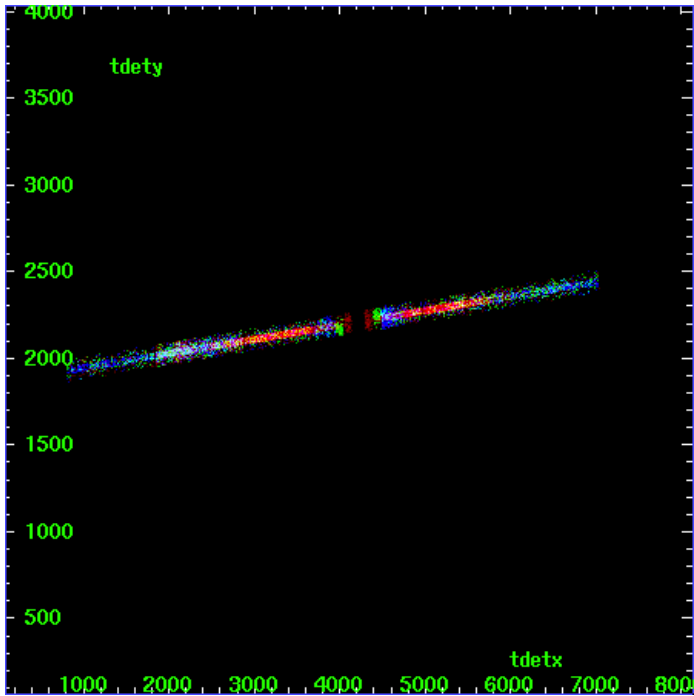
MEG Zero Order



MEG Order Sort ALL

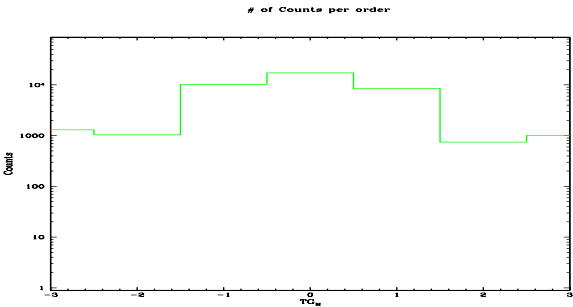


Spot Image MEG

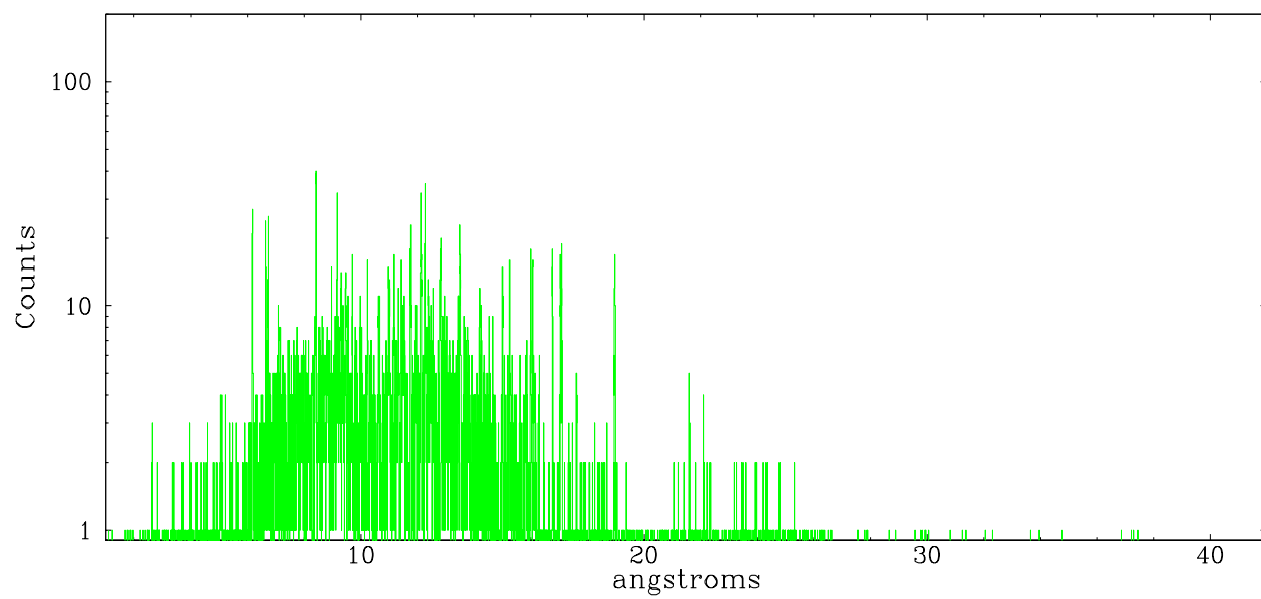


Full Detector MEG

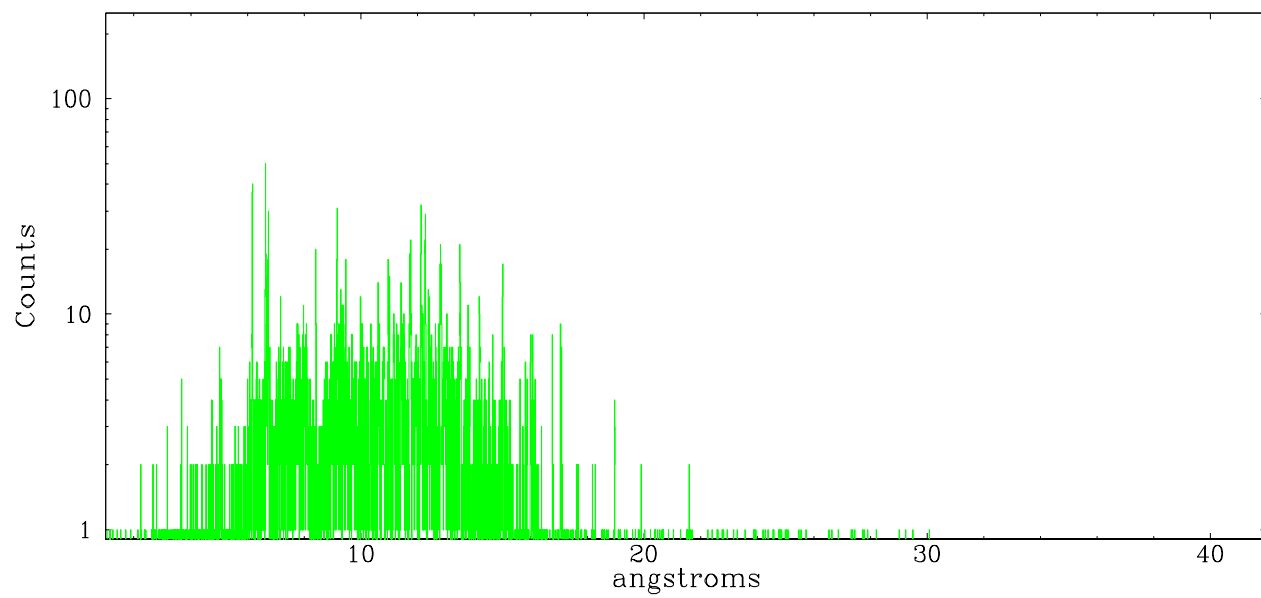
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1305	1036	10214	17331	8448	746	1004



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	131.872

A.2 Comments

Observation fully overlaps HST observation in time.