

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 5332 - L2 Version 001
Chandra X-Ray Center

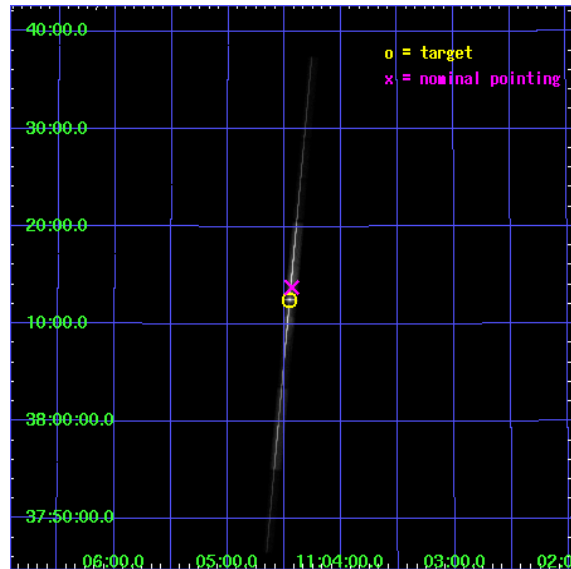
L2 Processing Date : Apr 29 2006

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1 Front

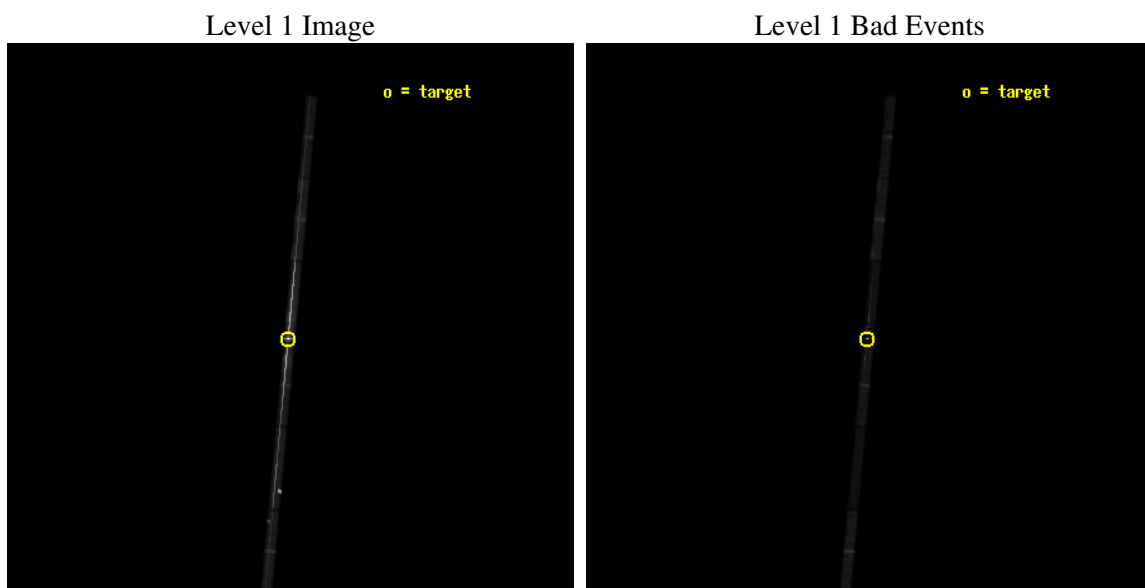
seq_num	790096
obs_id	5332
title	Measuring the spatial variation in the depth and composition of the ACIS contaminant with PKS 2155-304.
observer	Dr. CXC Calibration
object	Mkn 421
dtcycle	0
cycle	P
ra_targ	166.113333
dec_targ	38.208806
ra_nom	166.10882722981
dec_nom	38.229561985308
roll_nom	275.29352288012
revision	2
ontime	67063.375737846
livetime	63349.296956294
ontime4	67062.634697855
ontime5	67062.634777546
ontime6	67063.375817567
ontime7	67063.375737846
ontime8	67061.893717676
ontime9	67063.375767797
l2events	1574707



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 4

Chip 5

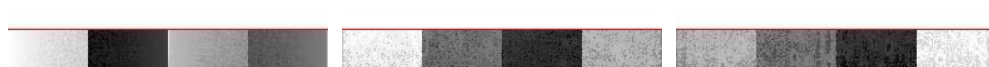
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.1
date	2006-04-29T18:26:00
revision	2

sched_exp_time	67000.000000
ontime	67064.021418035
ontime4	67063.280378044
ontime5	67064.021477818
ontime6	67064.76251784
ontime7	67064.021418035
ontime8	67063.280417949
ontime9	67064.76246807
l1events	2279395

2.1.4 Events

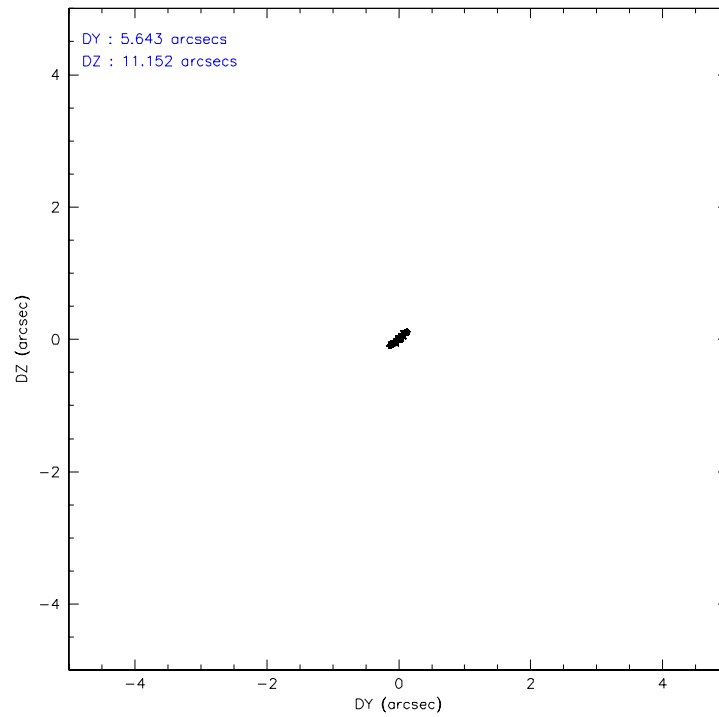
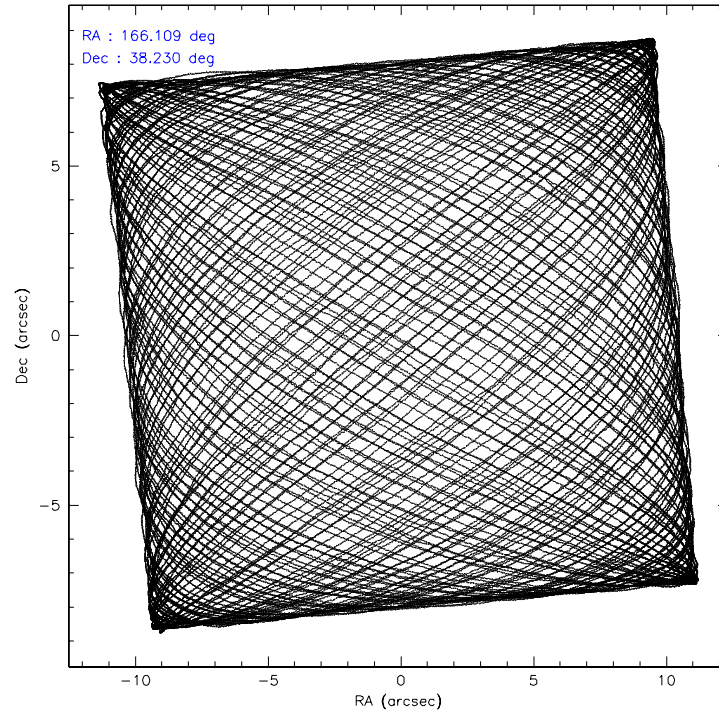
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	120577	284591	578857	1033287	164090	97993
rejected events	90573	55456	82220	164935	98292	72268
rejected %	75%	19%	14%	15%	59%	73%

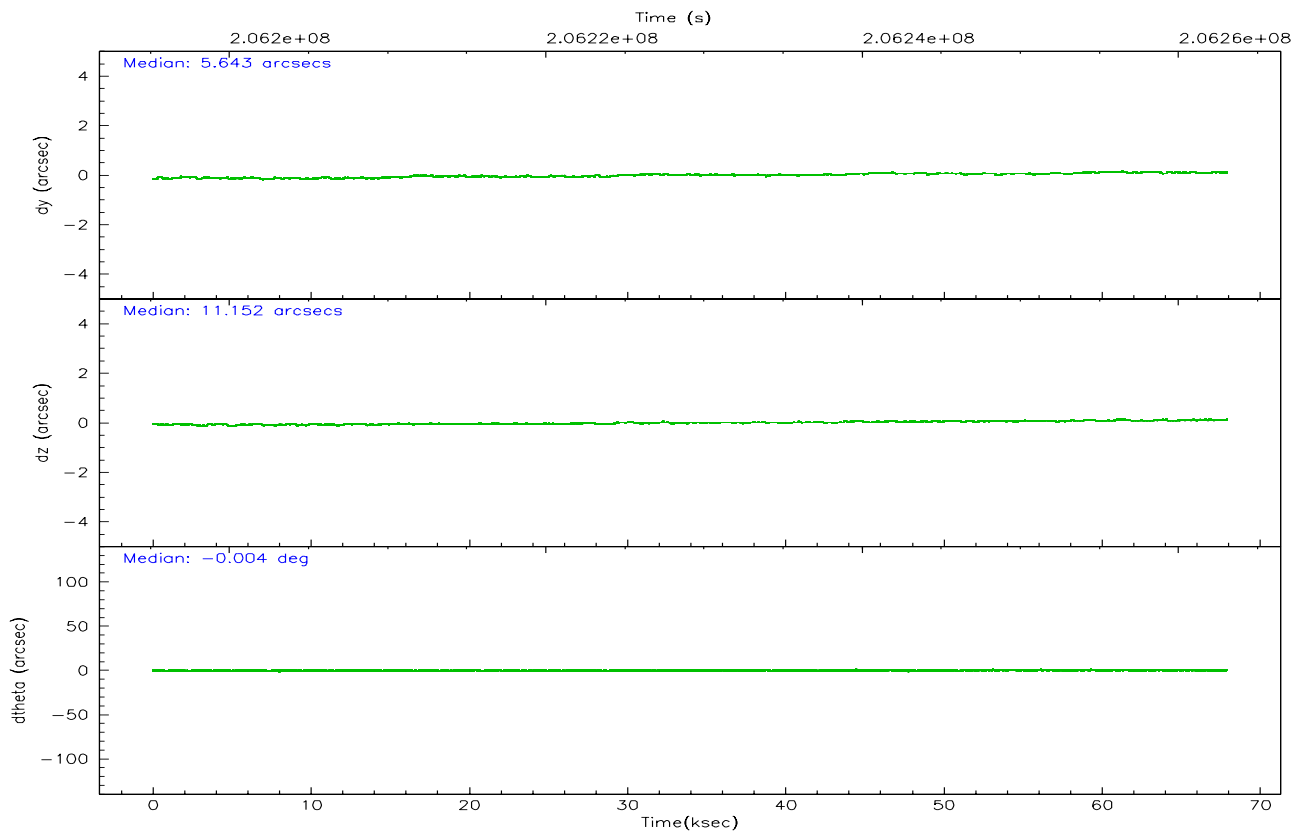
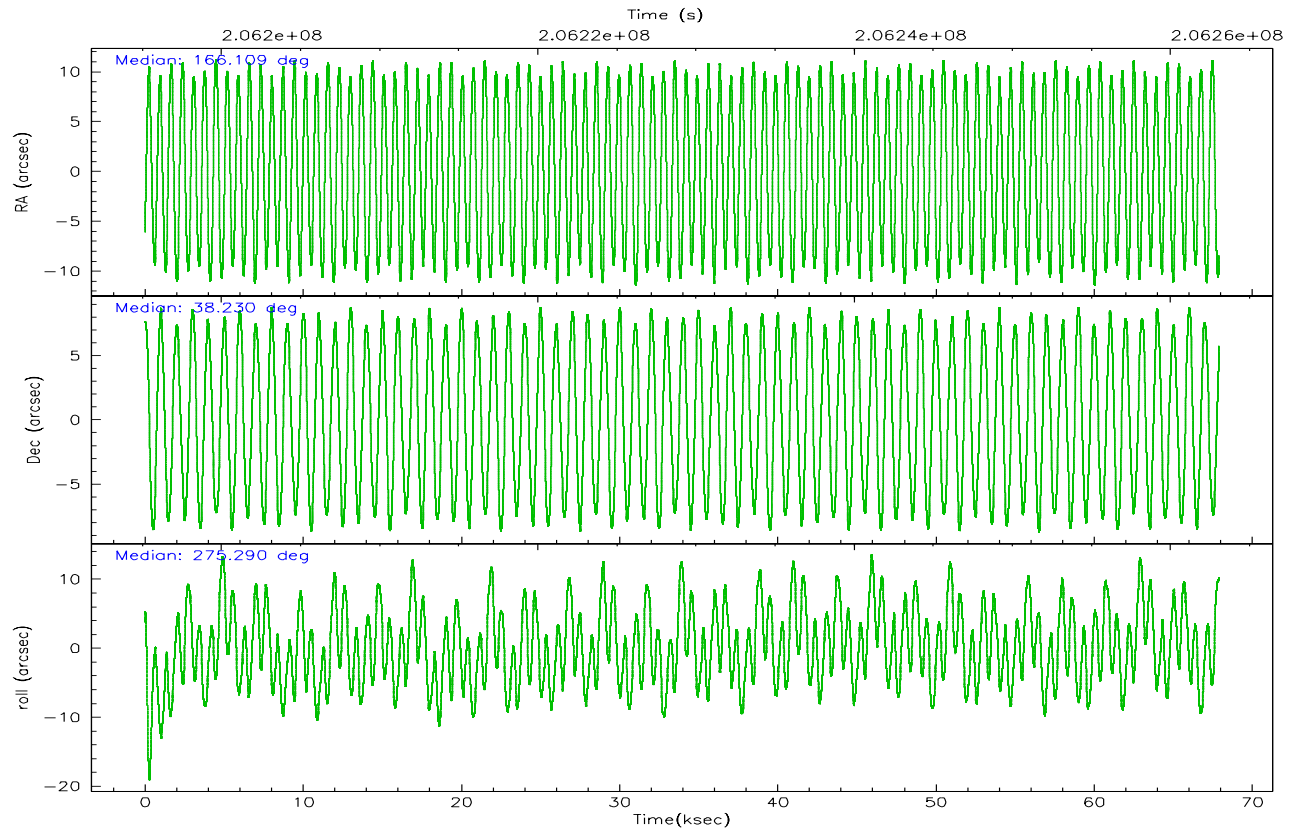
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	21374	144530	408140	250170	43918	17249
	17%	50%	70%	24%	26%	17%
grade 1 events	108	185	2050	3913	76	29
	0%	0%	0%	0%	0%	0%
grade 2 events	3177	38918	47530	233417	7679	2816
	2%	13%	8%	22%	4%	2%
grade 3 events	1858	7380	15230	94767	3493	1895
	1%	2%	2%	9%	2%	1%
grade 4 events	1754	7975	14980	93669	3448	1821
	1%	2%	2%	9%	2%	1%
grade 5 events	3170	5674	4282	24425	3971	2954
	2%	1%	0%	2%	2%	3%
grade 6 events	1841	30338	10769	196337	7261	1944
	1%	10%	1%	19%	4%	1%
grade 7 events	87295	49591	75876	136589	94244	69285
	72%	17%	13%	13%	57%	70%

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	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/8	1/8
Pointing RA	166.088418	166.1088272298065	Subarray start row	0	449
Pointing Dec	38.251555	38.22956198530841	Subarray row count	1024	128
Pointing Roll	275.149528	275.2935228801163	Alternating exposures requested	N	N
Window start time	205027264.184000	205027264.184000	Primary exposure time	0.000000	0.7
Window stop time	207705604.184000	207705604.184000			
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	206196071.184000	206194972.36574			
Observation start date	2004-07-14T12:40:07	2004-07-14T12:22:52			
Observation end time	206263071.184000	206263701.69379			
Observation end date	2004-07-15T07:16:47	2004-07-15T07:28:21			
Read mode	TIMED	TIMED			

2.3 Aspect



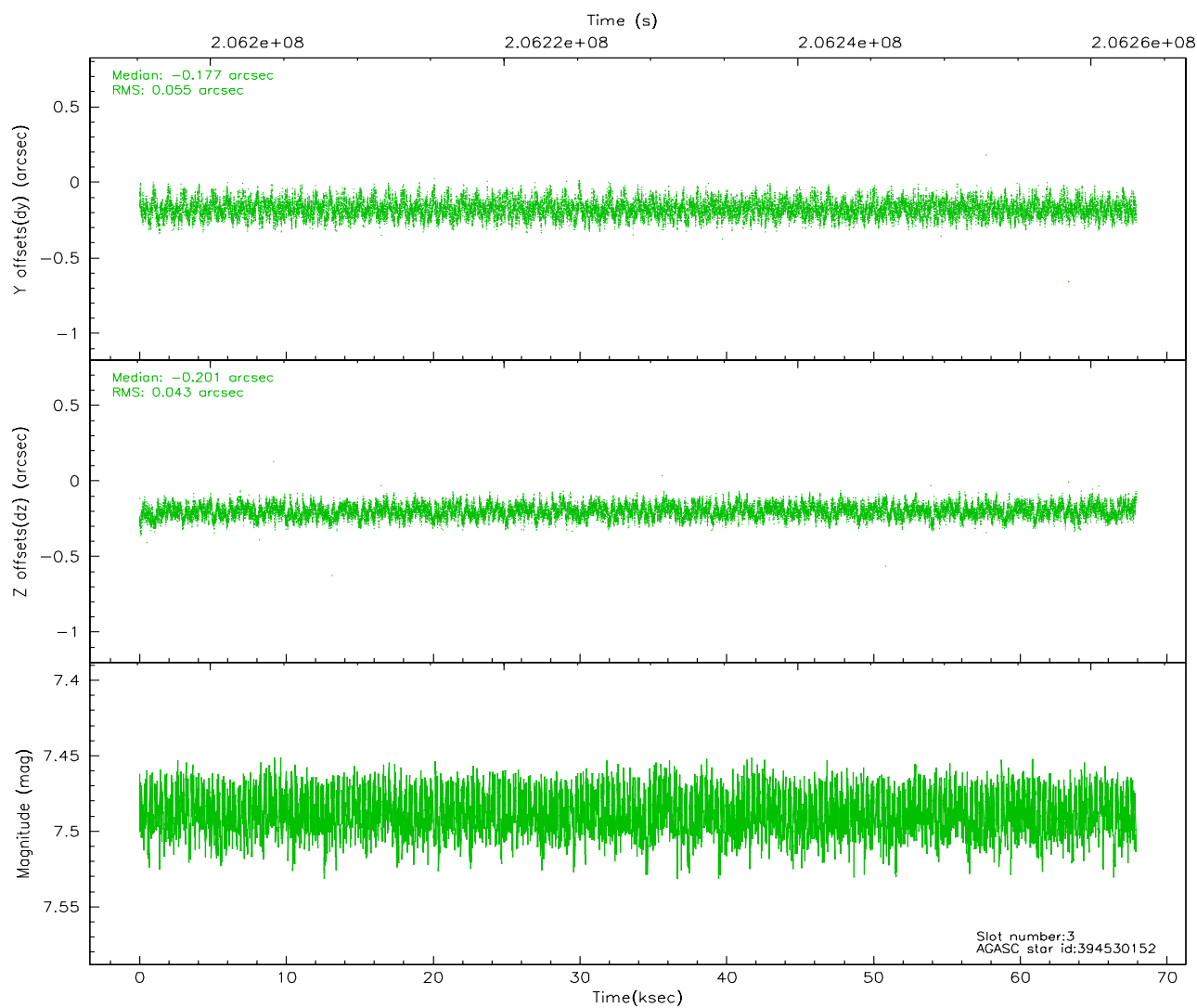
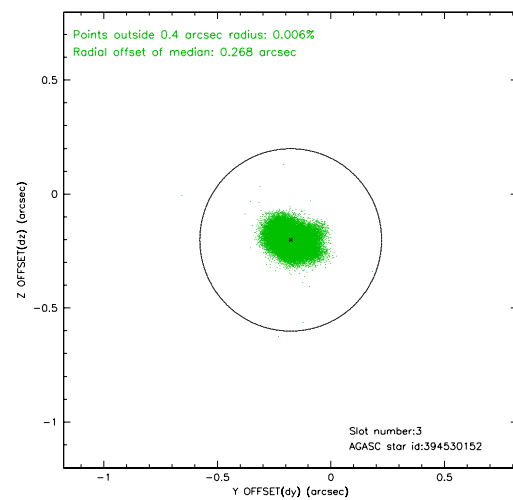
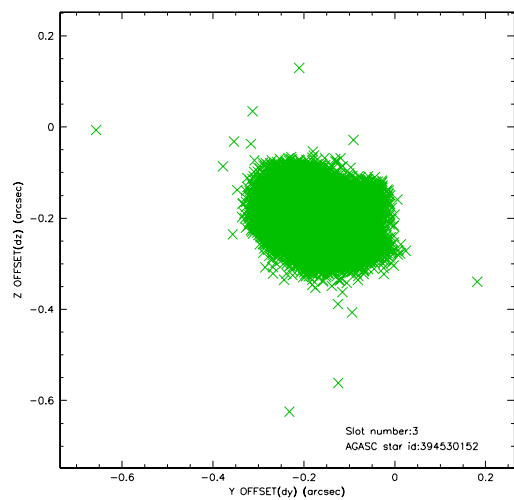


Slot Statistics

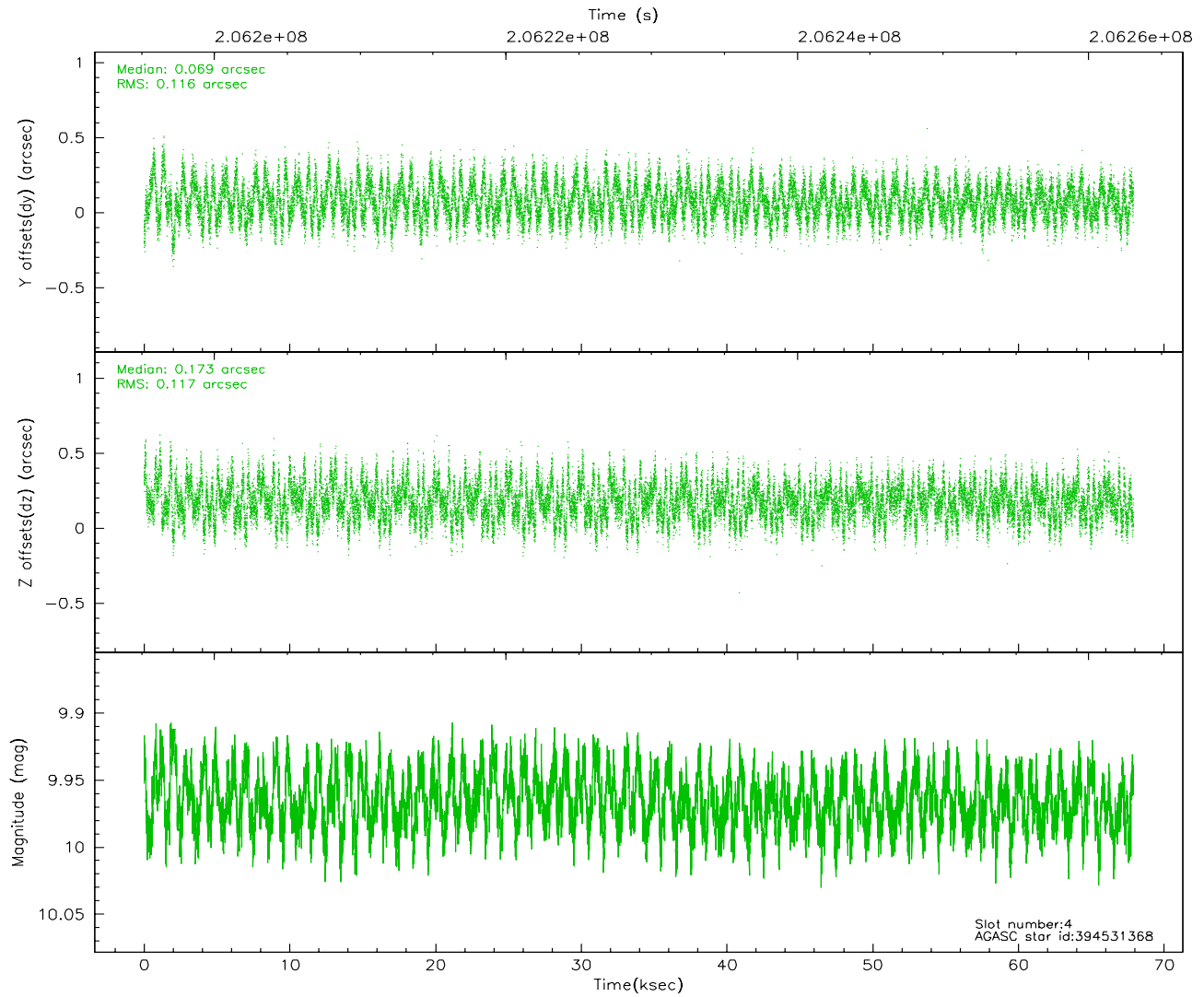
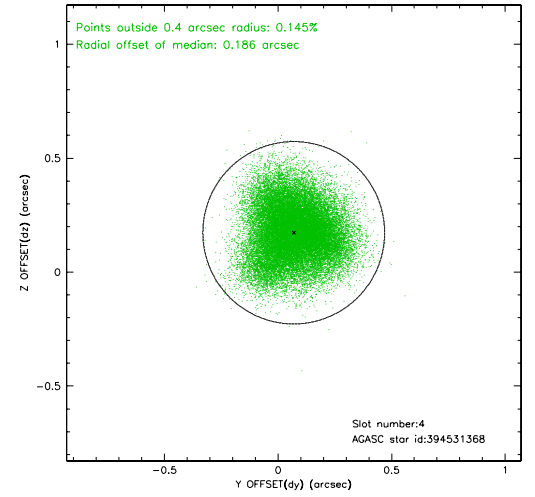
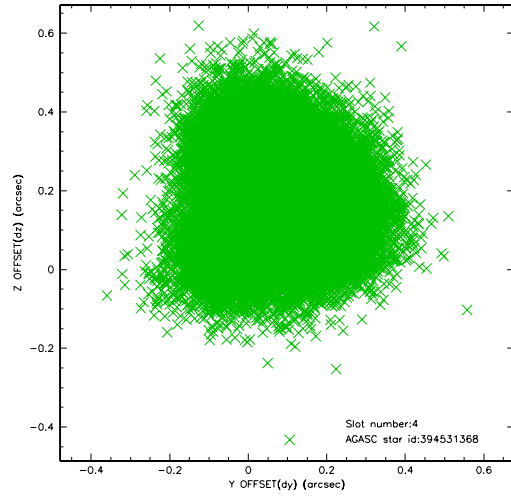
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	16560	-0.054	-0.005	0.007	0.011	0.000000	0.000000	-758.39	-1732.45
1	FID	ACIS-S-4	7.20	16559	0.061	0.027	0.005	0.009	0.000000	0.000000	2155.01	176.15
2	FID	ACIS-S-5	7.23	16558	-0.038	-0.013	0.006	0.010	0.000000	0.000000	-1811.30	169.69
3	GUIDE	394530152	7.49	33122	-0.177	-0.201	0.075	0.120	166.075805	38.868252	-2214.32	163.98
4	GUIDE	394531368	9.97	33086	0.069	0.173	0.179	0.276	165.794613	38.837127	-2174.58	-630.95
5	GUIDE	394533848	8.72	33116	0.122	0.079	0.074	0.121	166.382906	38.276007	-14.51	835.73
6	GUIDE	394543960	9.78	33095	0.053	-0.100	0.151	0.246	165.802757	37.787371	1590.44	-959.08
7	GUIDE	394546712	6.59	33122	-0.094	0.055	0.066	0.102	166.451462	38.394357	-421.95	1066.42

2.4 Star Slots

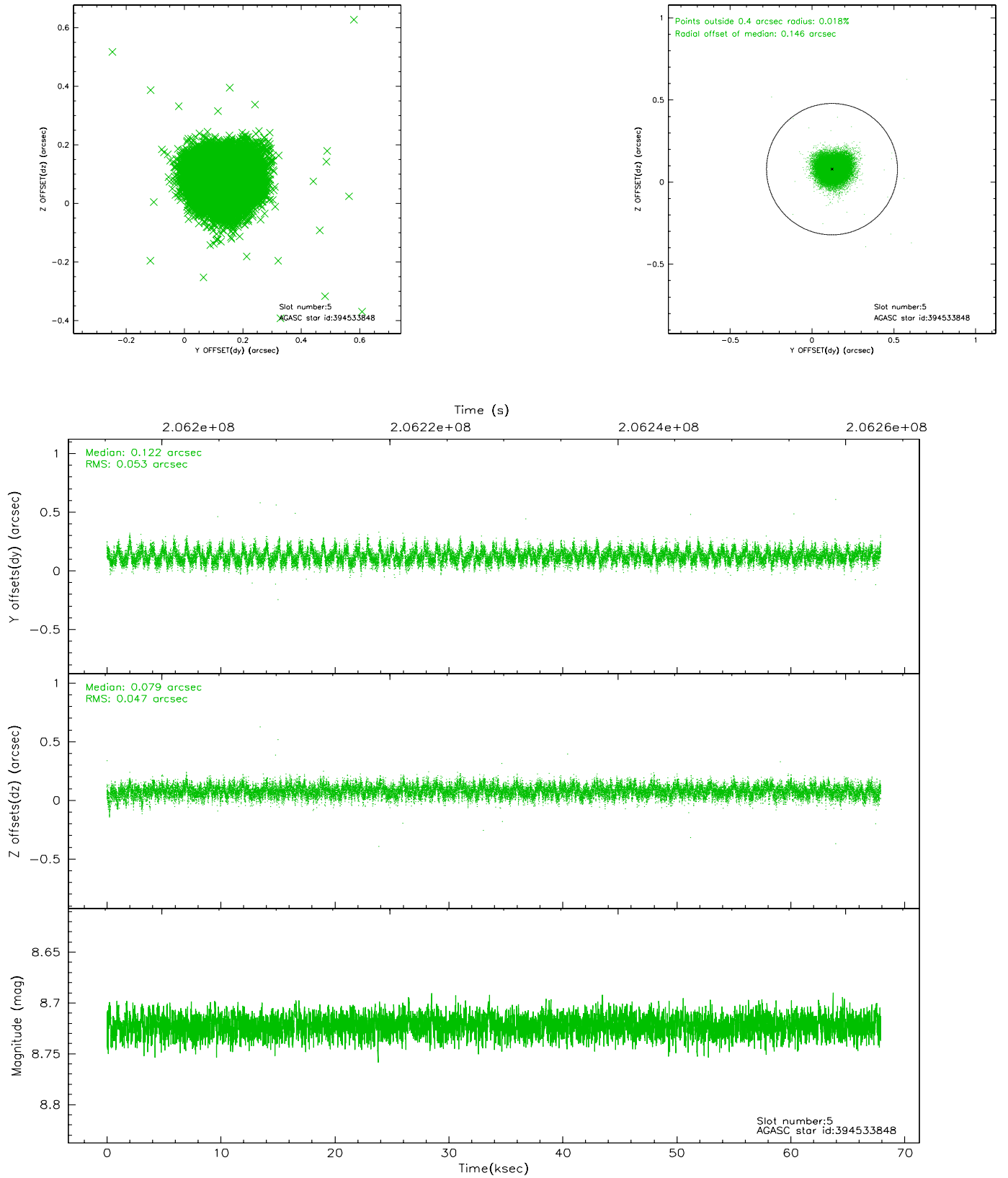
2.4.1 Slot 3



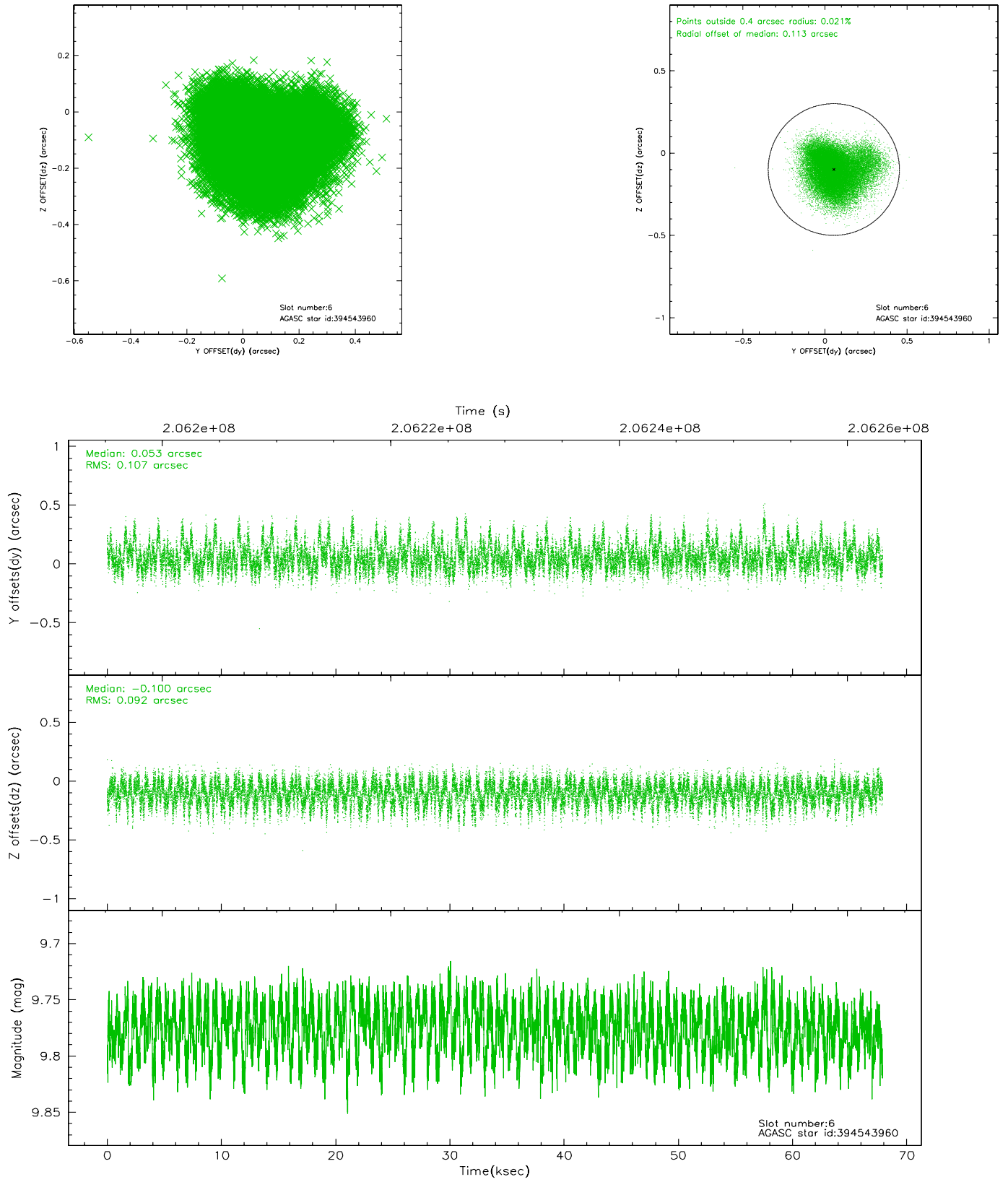
2.4.2 Slot 4



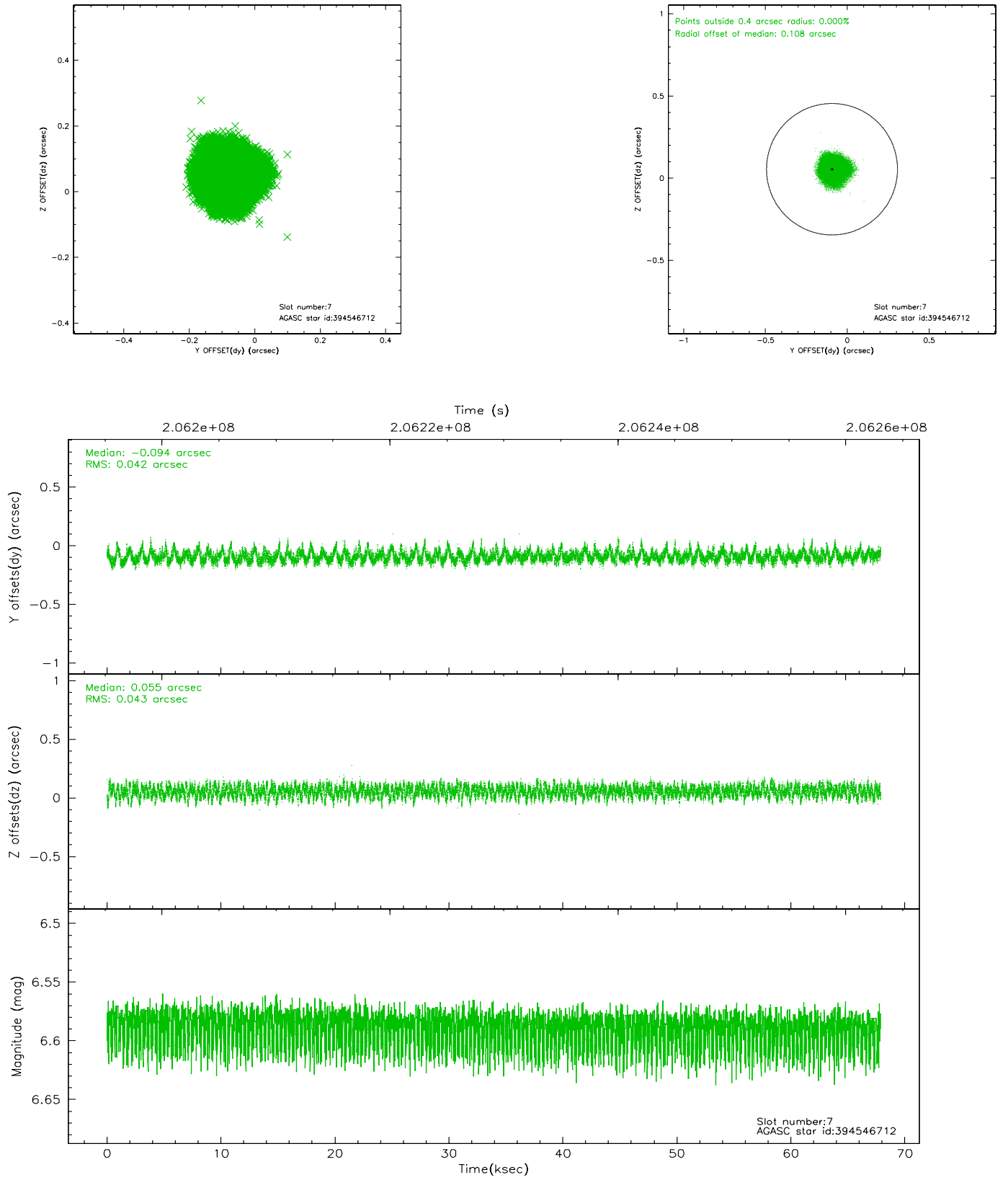
2.4.3 Slot 5



2.4.4 Slot 6

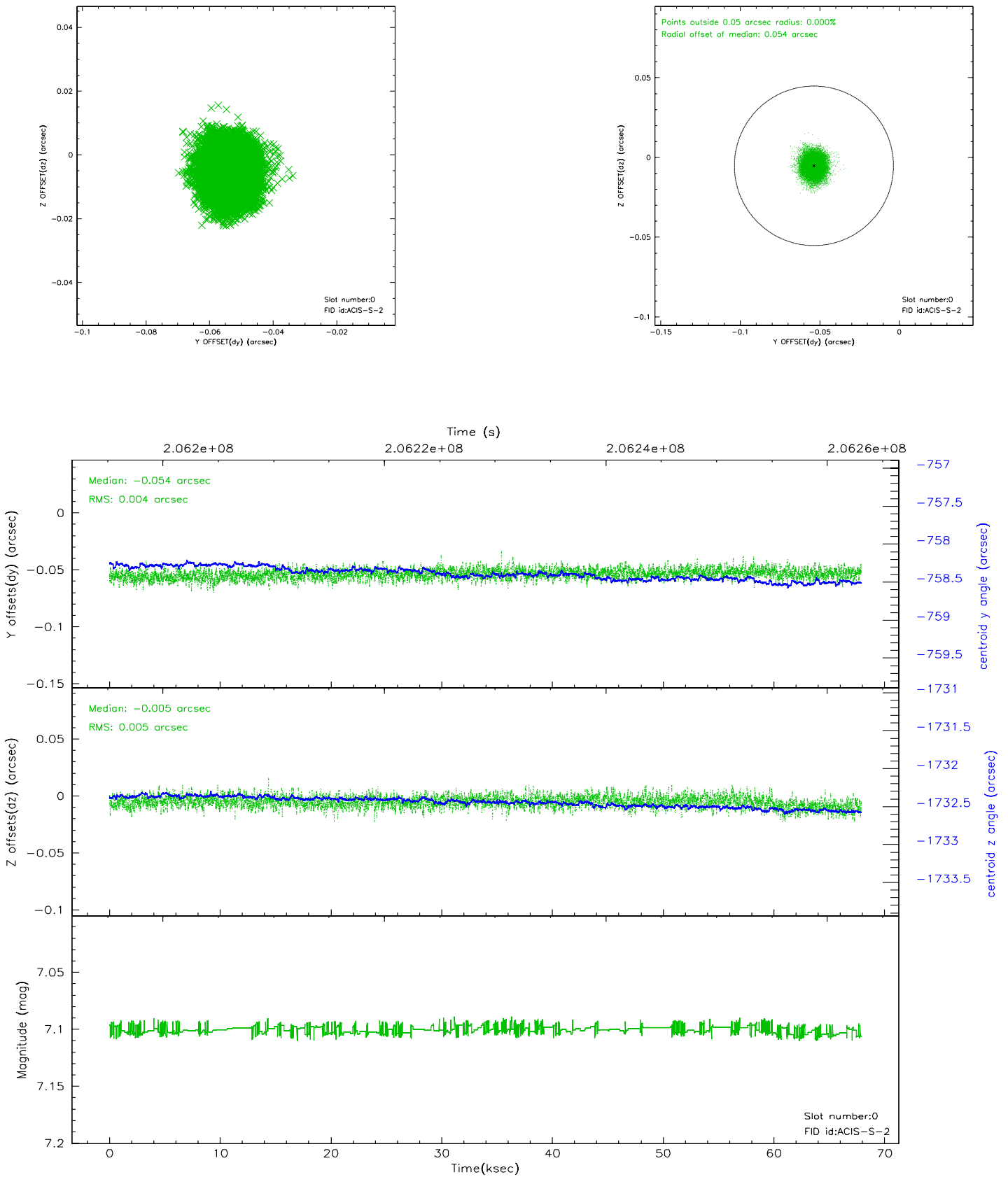


2.4.5 Slot 7

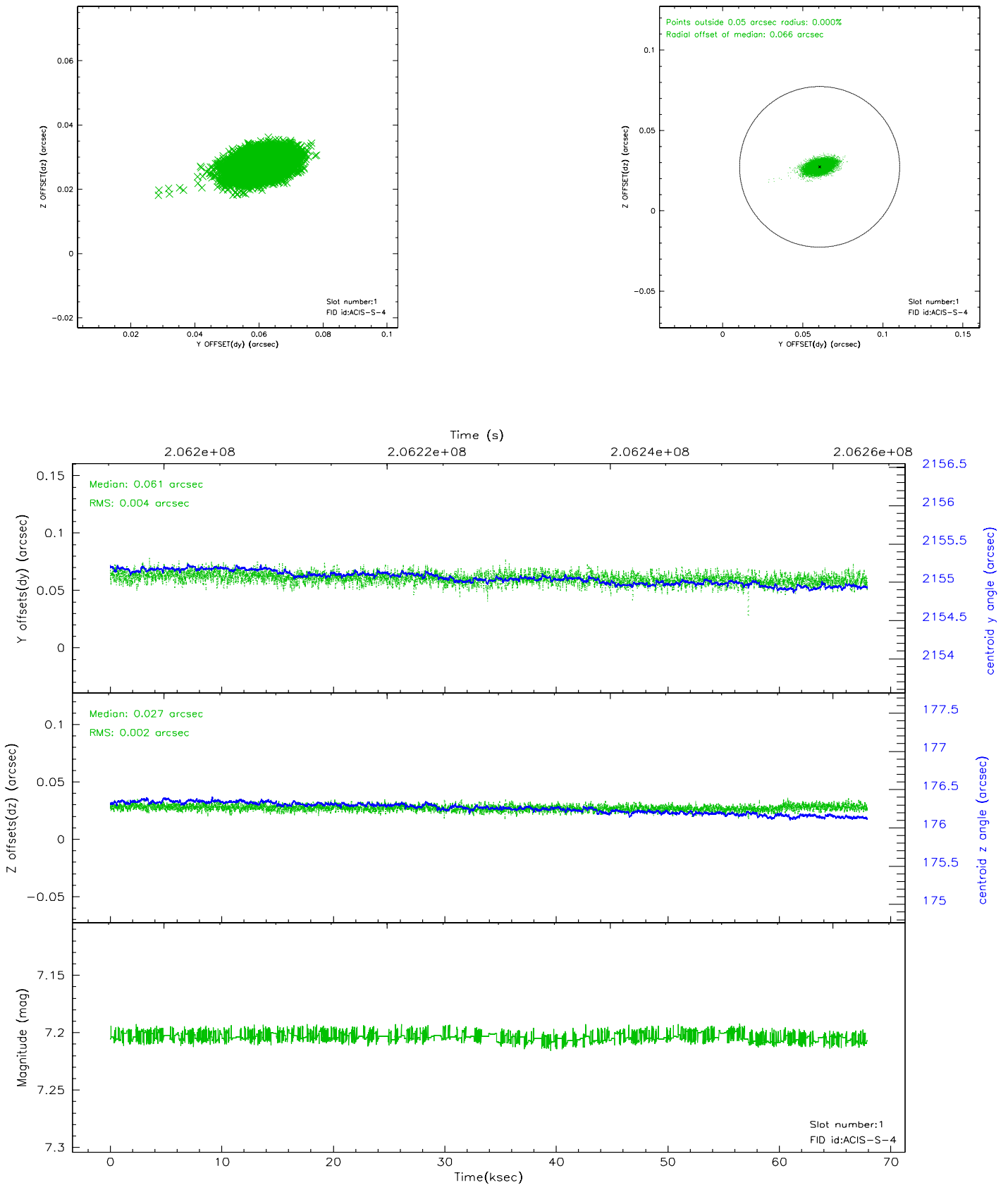


2.5 FID Slots

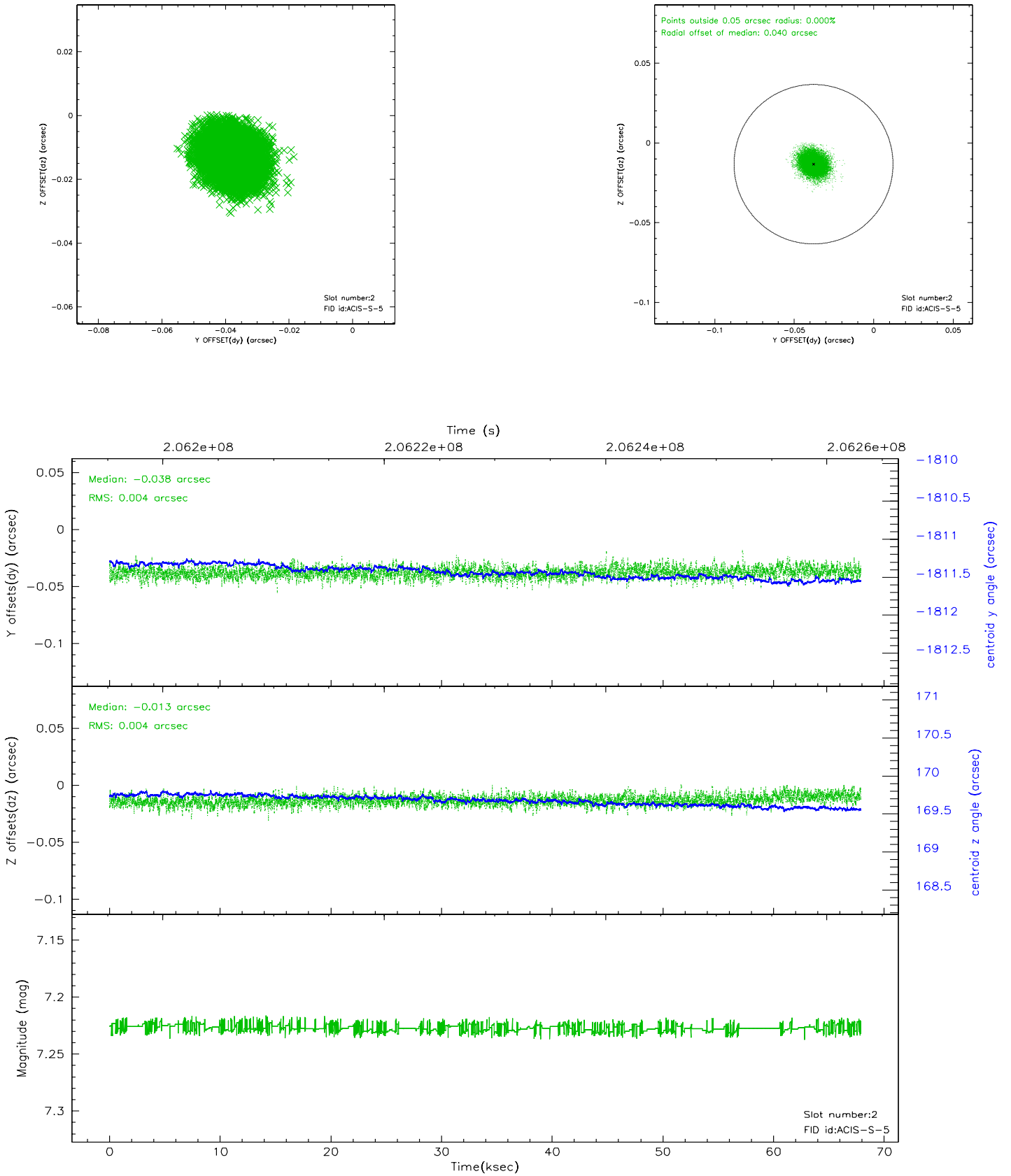
2.5.1 Slot 0



2.5.2 Slot 1

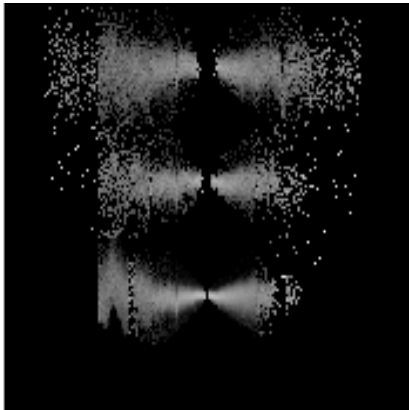


2.5.3 Slot 2

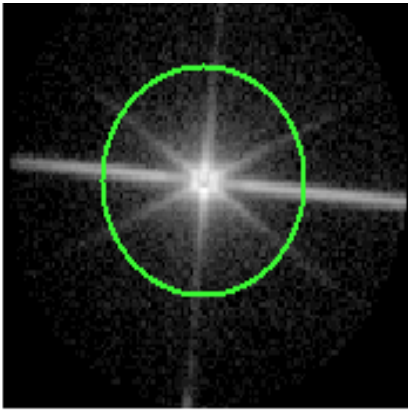


3 Gratings

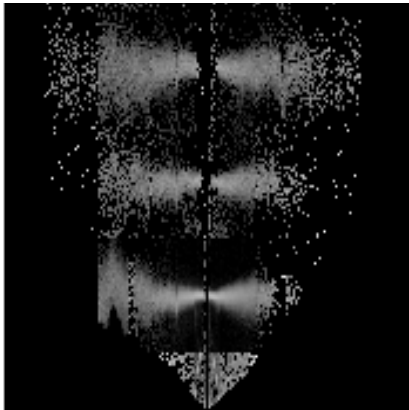
3.1 LETG Arm



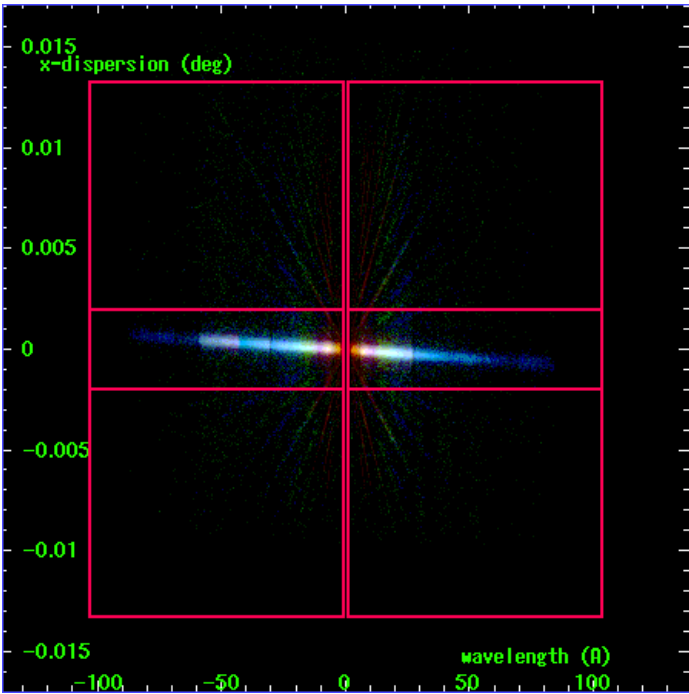
LETG Order Sort 123



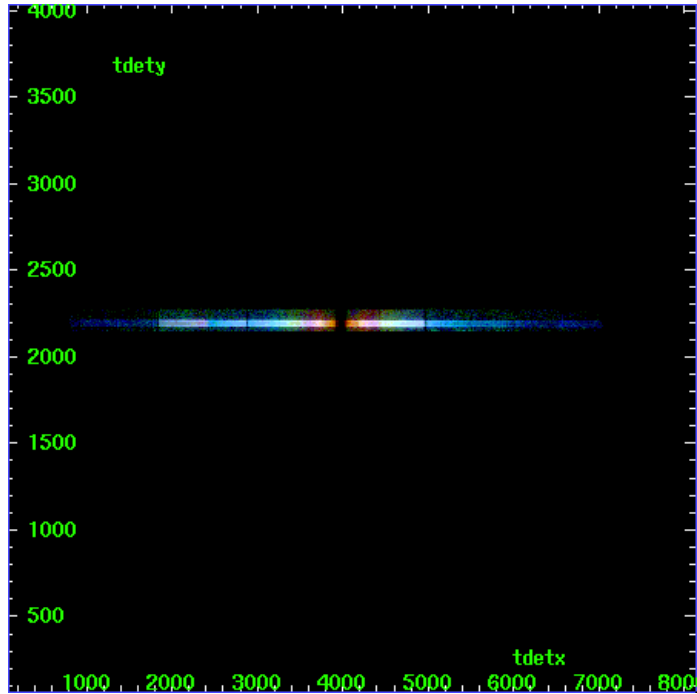
LETG Zero Order



LETG Order Sort ALL

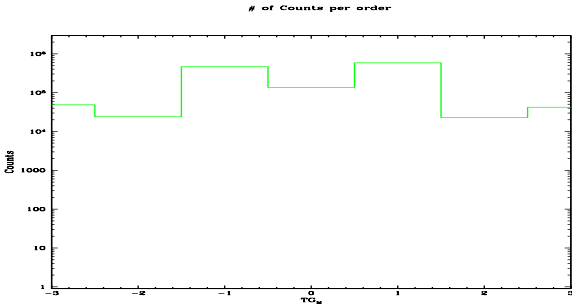


Spot Image LETG

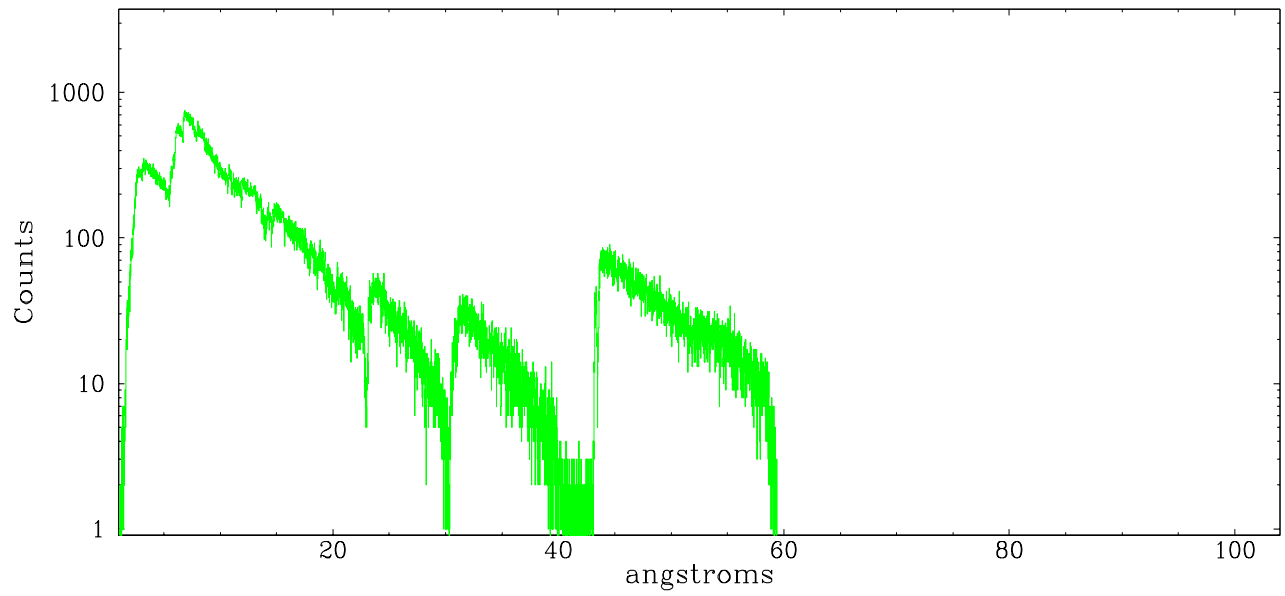


Full Detector LETG

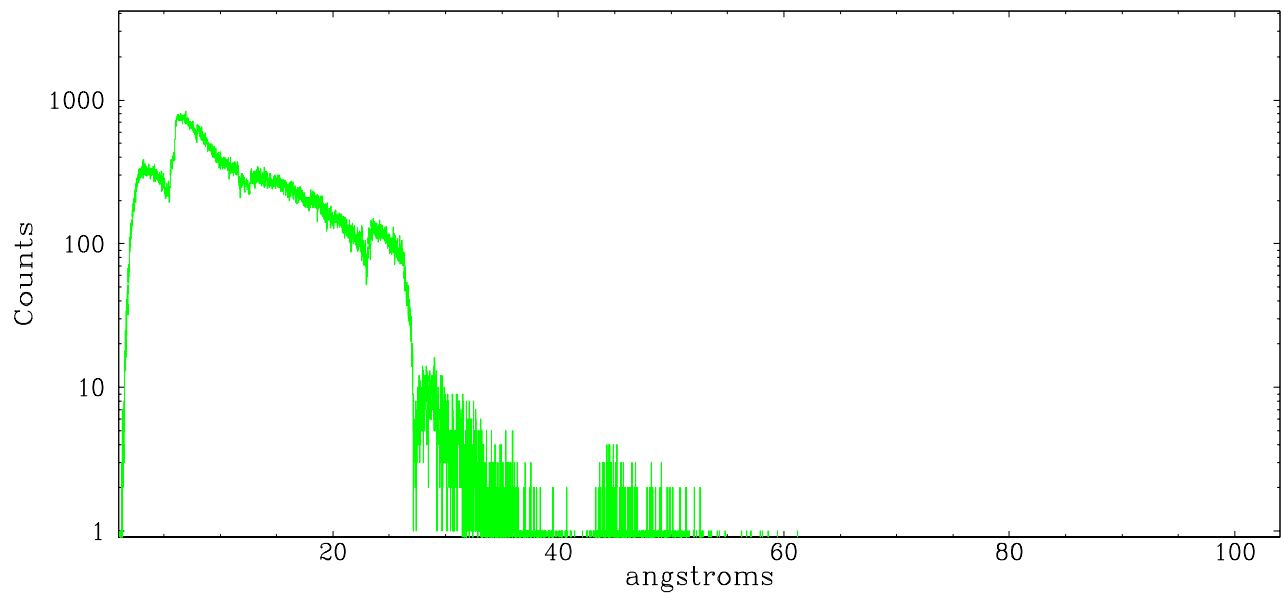
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	48615	23864	461727	136021	586124	22789	42029



leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	67.063

A.2 Comments