

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3667 - L2 Version 001
Chandra X-Ray Center

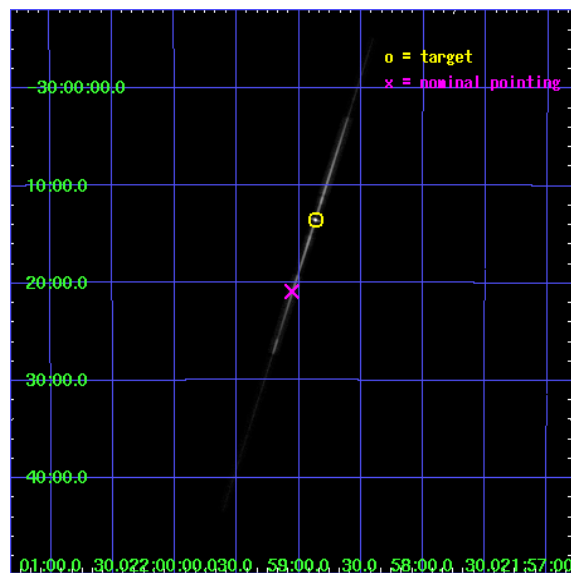
L2 Processing Date : Sep 19 2006

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1 Front

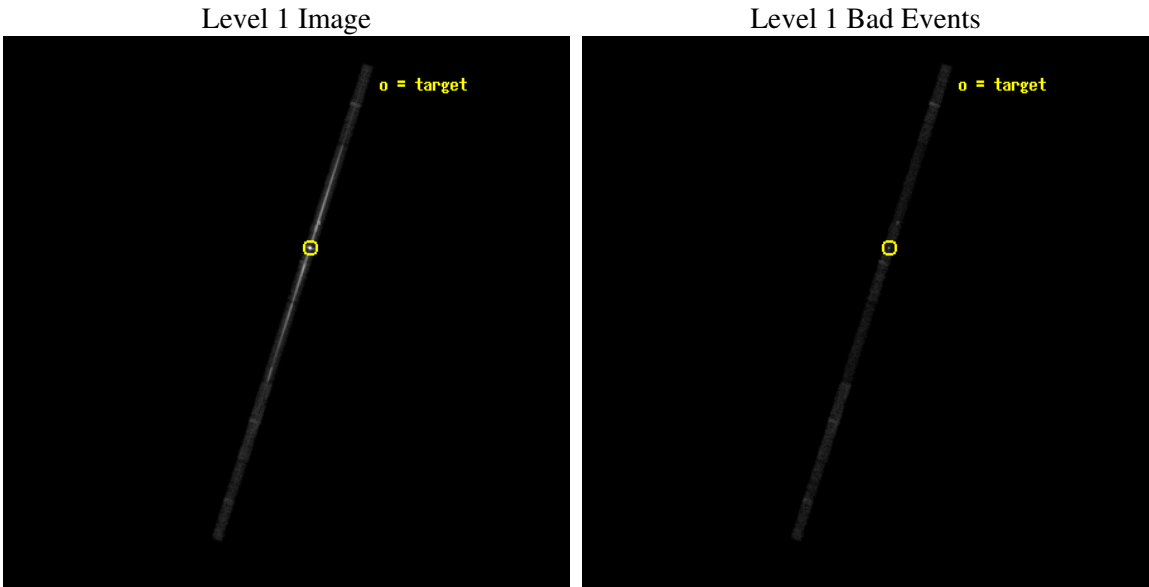
seq_num	790079
obs_id	3667
title	INVESTIGATING THE CONTAMINATION BUILD-UP ON ACIS
observer	Dr. CXC Calibration
object	PKS2155-304
dtcycle	0
cycle	P
ra_targ	329.716667
dec_targ	-30.225556
ra_nom	329.76411901668
dec_nom	-30.348203826133
roll_nom	107.88543690259
revision	2
ontime	15011.458704352
livetime	14180.099715328
ontime4	15010.311821371
ontime5	15011.458704352
ontime6	15011.458704352
ontime7	15011.458704352
ontime8	15011.458704352
ontime9	15011.458704352
l2events	203301



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	7.6.9
caldsver	3.2.3
date	2006-09-19T09:31:19
revision	2

sched_exp_time	14500.000000
ontime	15012.560874045
ontime4	15011.078823954
ontime5	15012.560874045
ontime6	15012.560874045
ontime7	15012.560874045
ontime8	15012.560874045
ontime9	15012.560874045
l1events	297716

2.1.4 Events

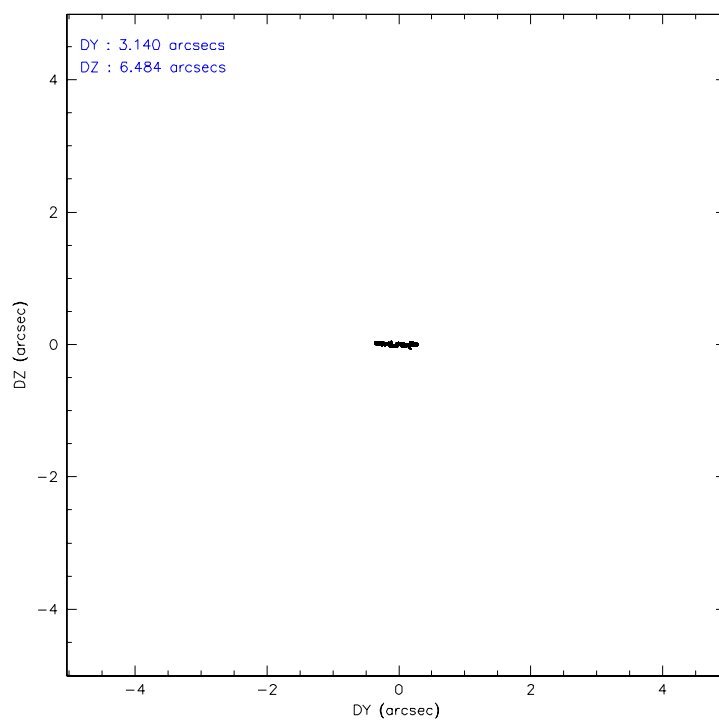
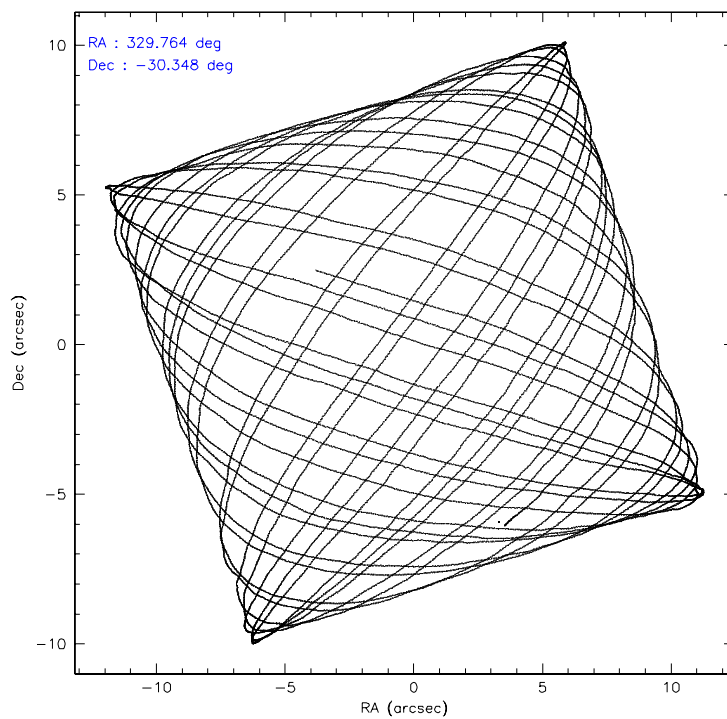
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	20349	66977	131988	39028	23473	15901
rejected events	15866	10045	15371	9642	18076	13247
rejected %	77%	14%	11%	24%	77%	83%

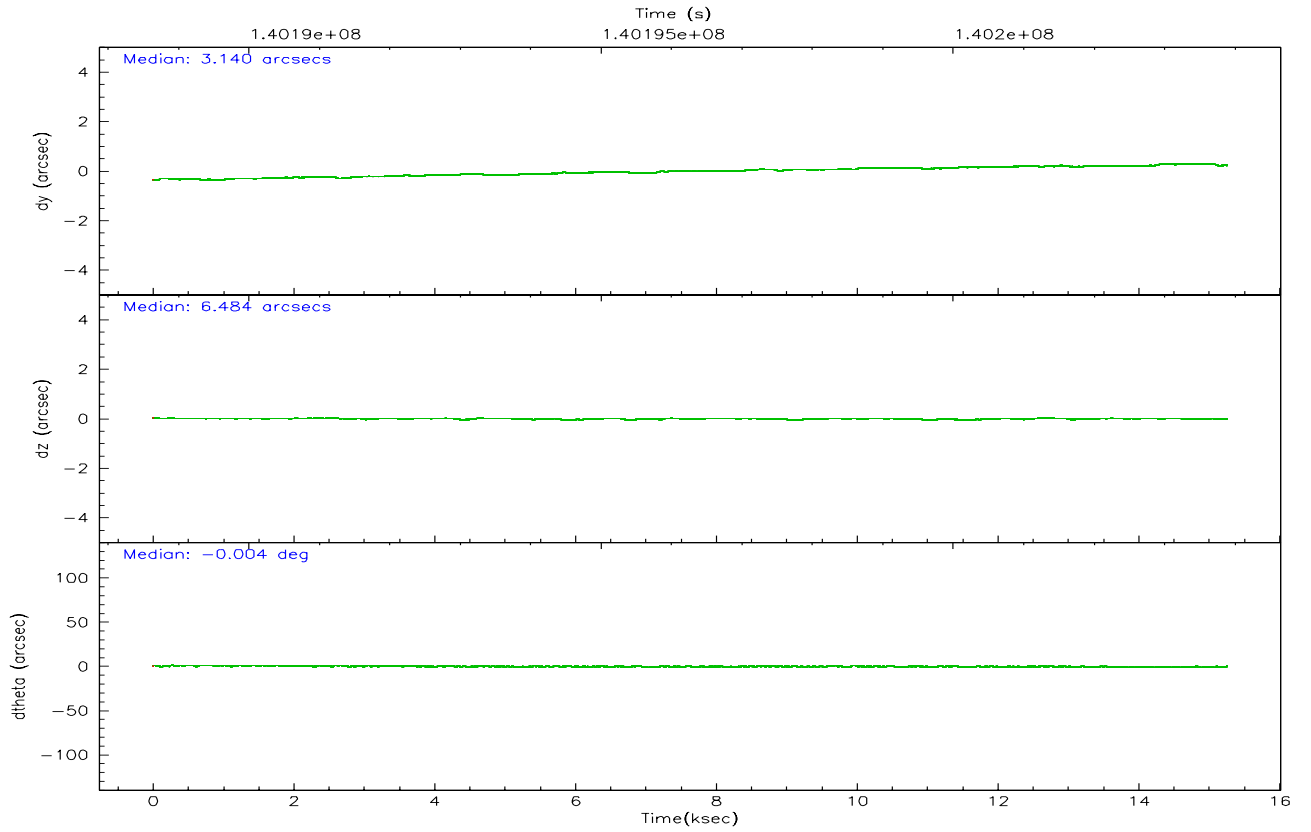
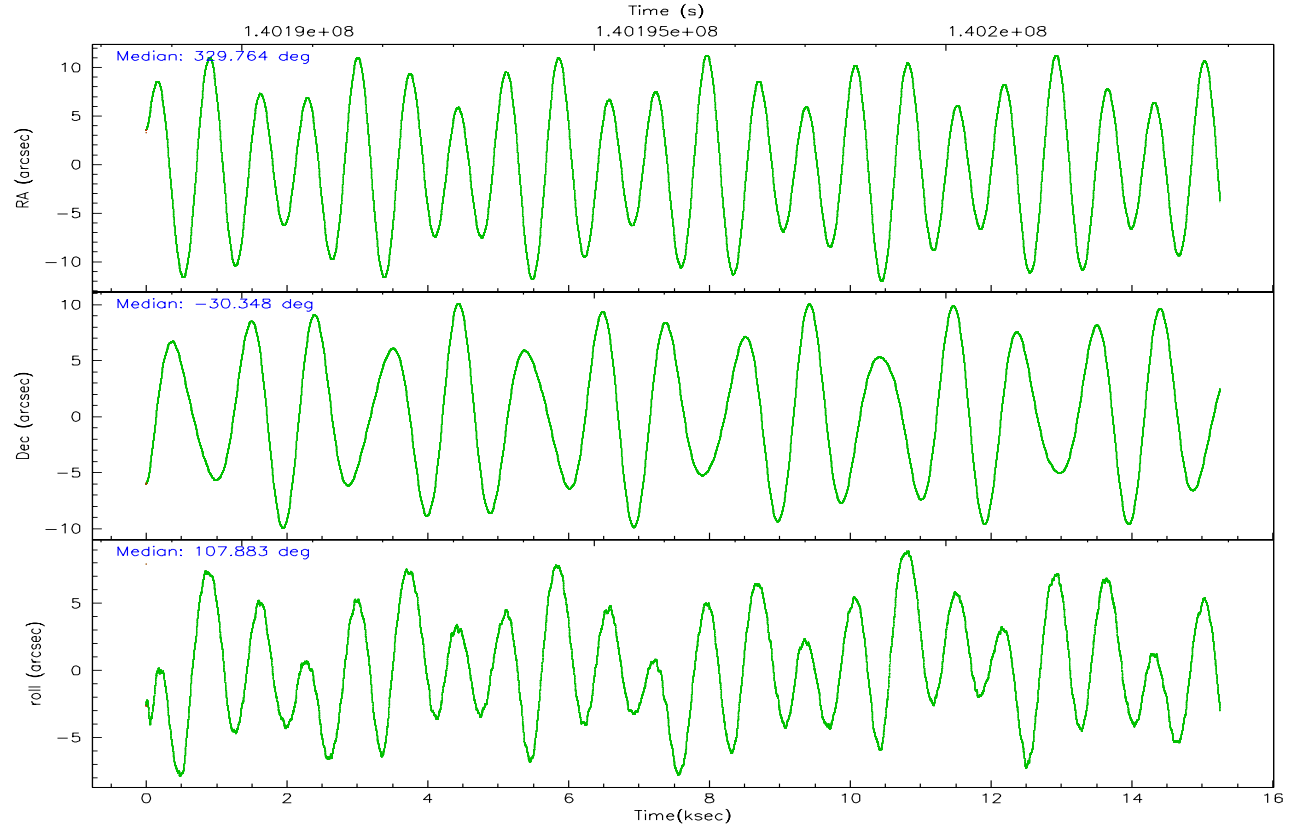
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2914	23413	95368	10558	2629	1381
	14%	34%	72%	27%	11%	8%
grade 1 events	4	295	740	19	5	1
	0%	0%	0%	0%	0%	0%
grade 2 events	560	14626	11249	6987	739	363
	2%	21%	8%	17%	3%	2%
grade 3 events	369	5220	3655	3129	535	343
	1%	7%	2%	8%	2%	2%
grade 4 events	330	5225	3587	3031	463	288
	1%	7%	2%	7%	1%	1%
grade 5 events	453	1491	752	1416	577	488
	2%	2%	0%	3%	2%	3%
grade 6 events	310	8460	2769	5683	1031	280
	1%	12%	2%	14%	4%	1%
grade 7 events	15409	8247	13868	8205	17494	12757
	75%	12%	10%	21%	74%	80%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	329.787780	329.7641190166808	Subarray requested	CUSTOM	1/8
Pointing Dec	-30.366213	-30.34820382613255	Subarray start row	113	113
Pointing Roll	107.740761	107.8854369025921	Subarray row count	128	128
Window start time	140054464.184000	140054464.184000	Alternating exposures requested	N	N
Window stop time	143683264.184000	143683264.184000	Primary exposure time	0.000000	0.7
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	140189396.184000	140188156.79015			
Observation start date	2002-06-11T13:28:52	2002-06-11T13:09:16			
Observation end time	140203896.184000	140204224.6908			
Observation end date	2002-06-11T17:30:32	2002-06-11T17:37:04			
Read mode	TIMED	TIMED			

2.3 Aspect



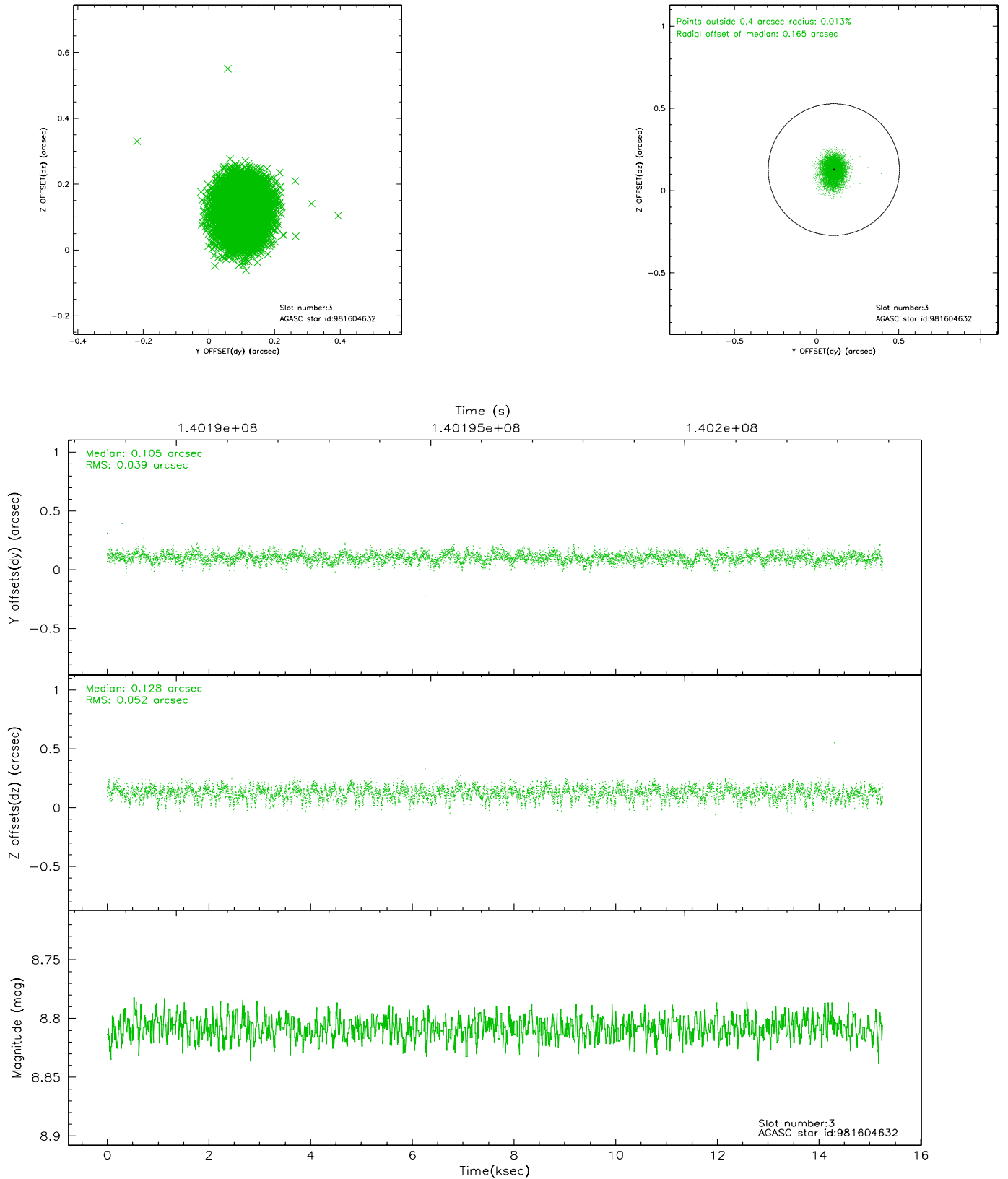


Slot Statistics

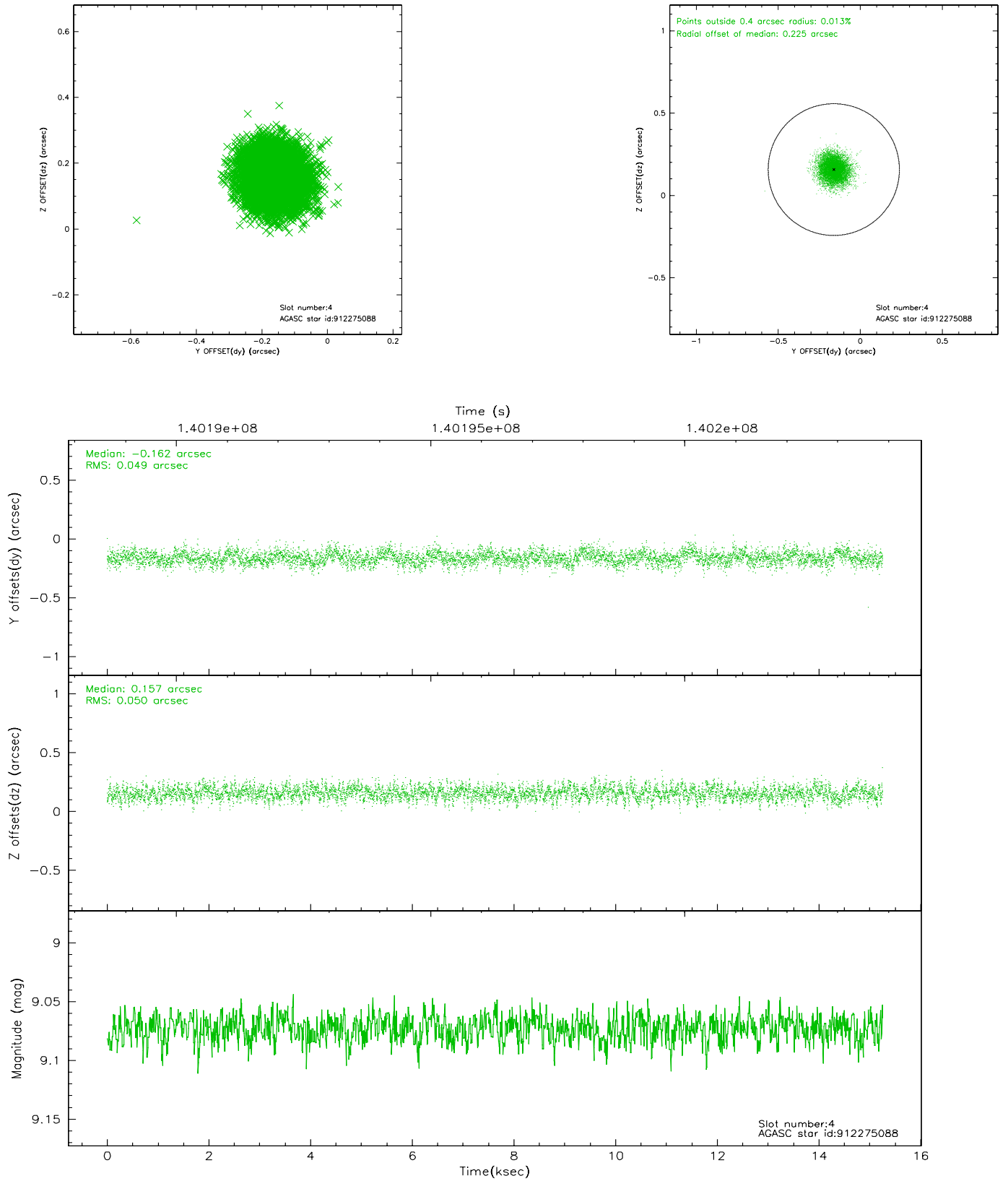
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	3720	-0.026	-0.082	0.008	0.013	0.000000	0.000000	-755.23	-1892.42
1	FID	ACIS-S-4	7.18	3721	0.006	0.035	0.005	0.009	0.000000	0.000000	2157.96	15.79
2	FID	ACIS-S-5	7.23	3721	-0.011	0.056	0.007	0.012	0.000000	0.000000	-1807.67	9.85
3	GUIDE	981604632	8.81	7442	0.105	0.128	0.069	0.112	330.675672	-30.712490	-2034.74	-2234.25
4	GUIDE	912275088	9.07	7438	-0.162	0.157	0.075	0.121	329.619228	-29.738698	2311.50	-186.47
5	GUIDE	981478152	9.40	7372	0.008	-0.198	0.085	0.141	329.415589	-30.057192	1411.63	765.95
6	GUIDE	981468128	9.36	7440	0.184	0.102	0.073	0.120	329.756350	-30.158334	743.03	-134.64
7	GUIDE	981469488	9.60	7436	-0.139	-0.184	0.087	0.146	329.261199	-30.045155	1597.32	1211.79

2.4 Star Slots

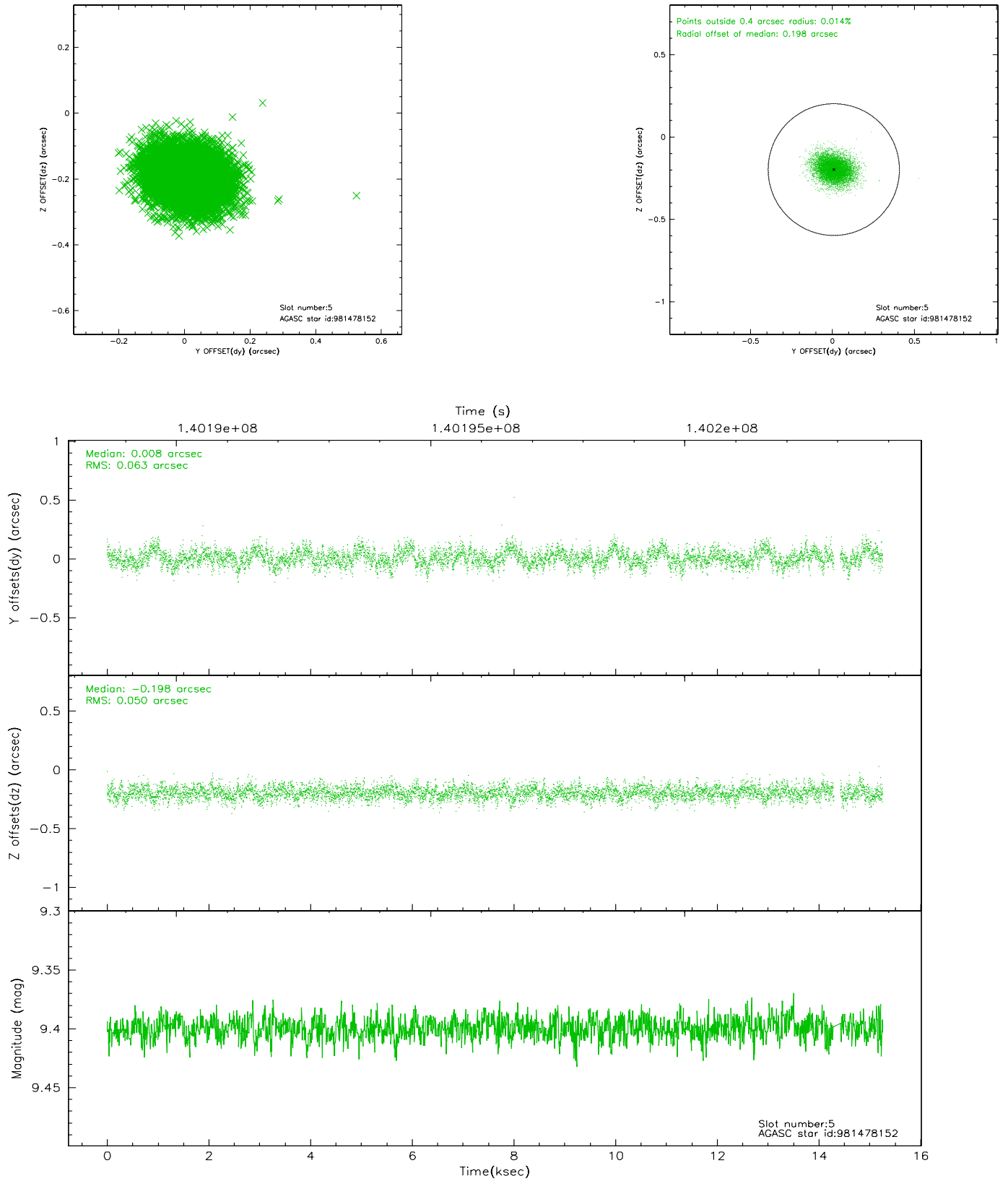
2.4.1 Slot 3



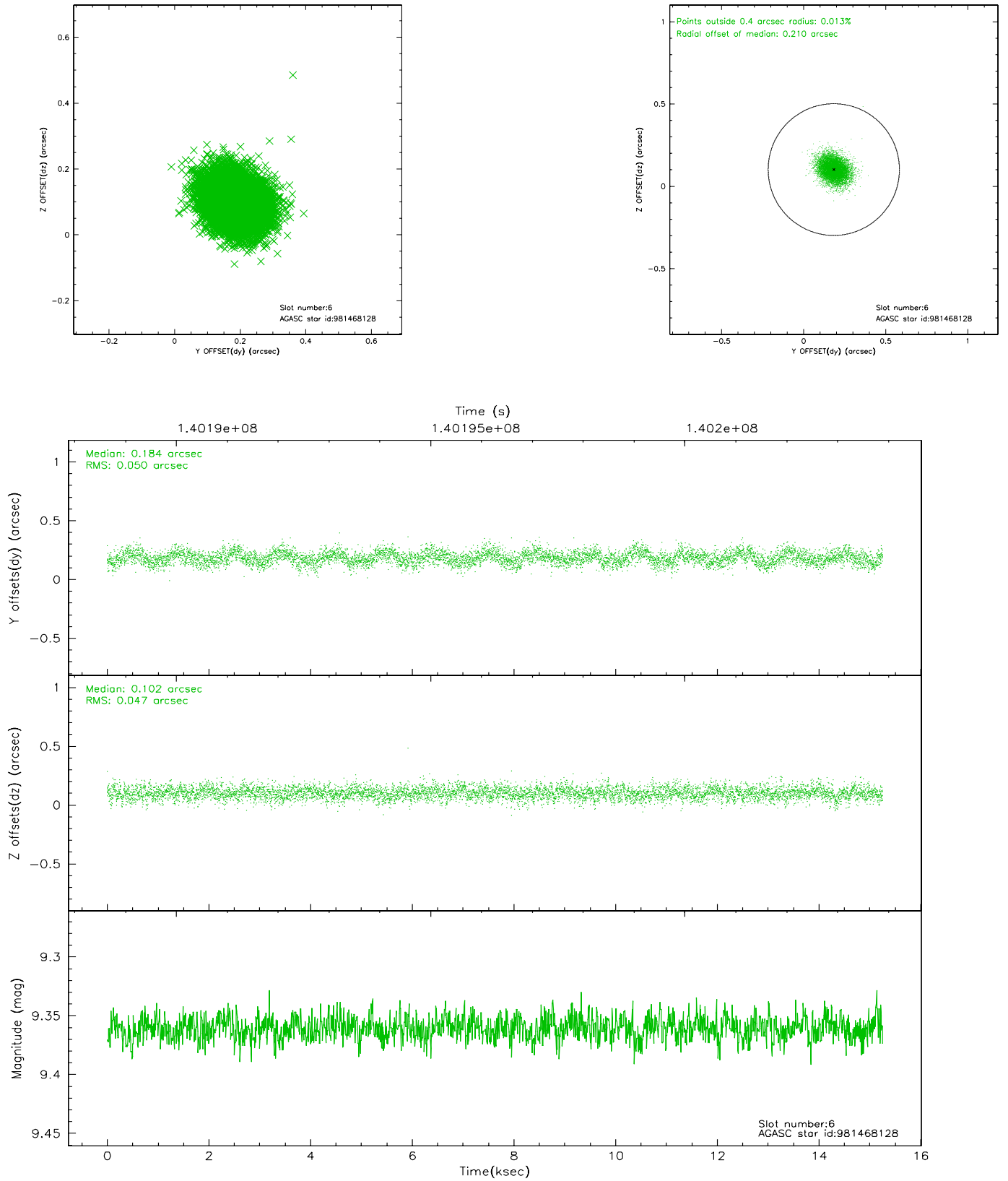
2.4.2 Slot 4



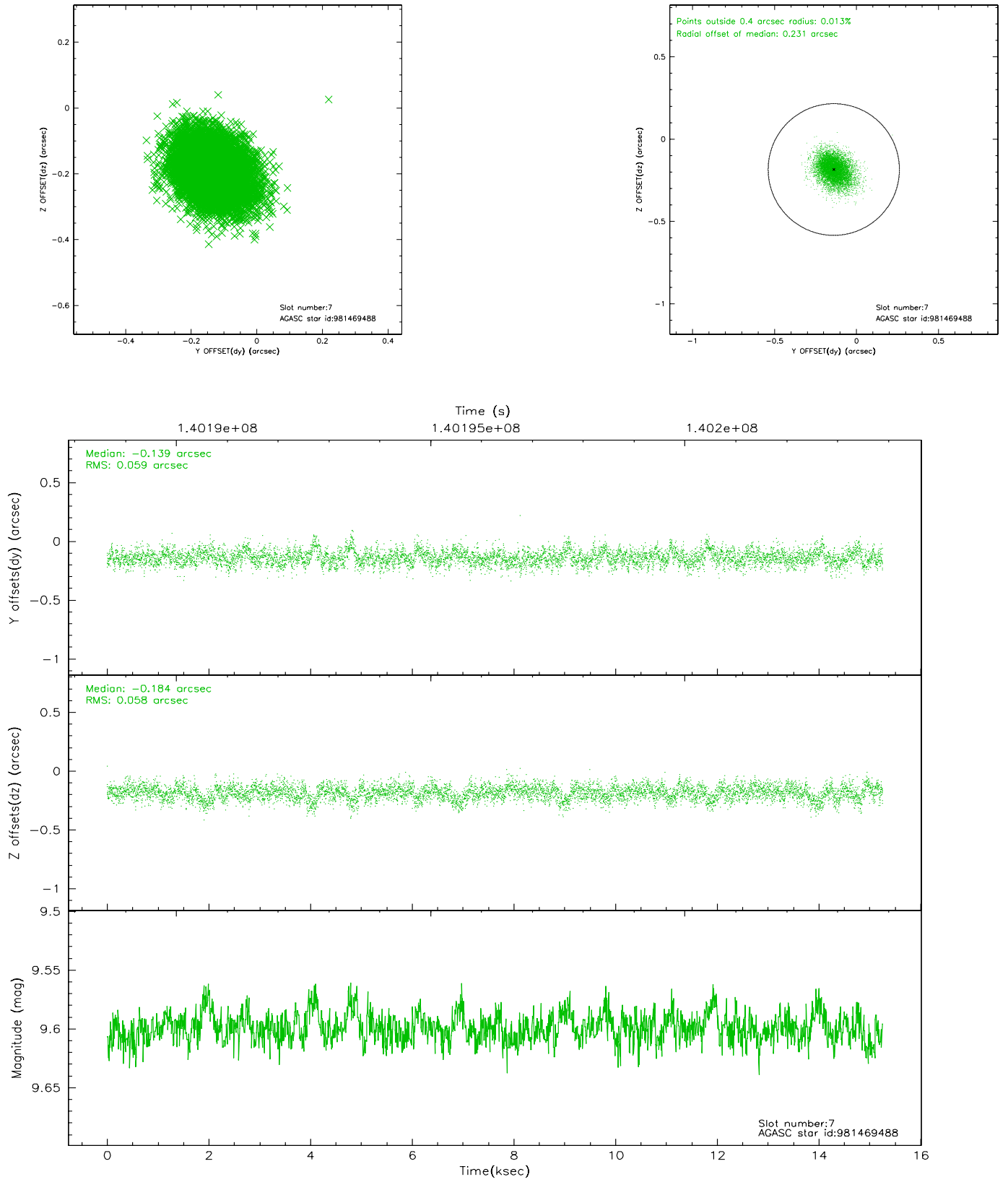
2.4.3 Slot 5



2.4.4 Slot 6

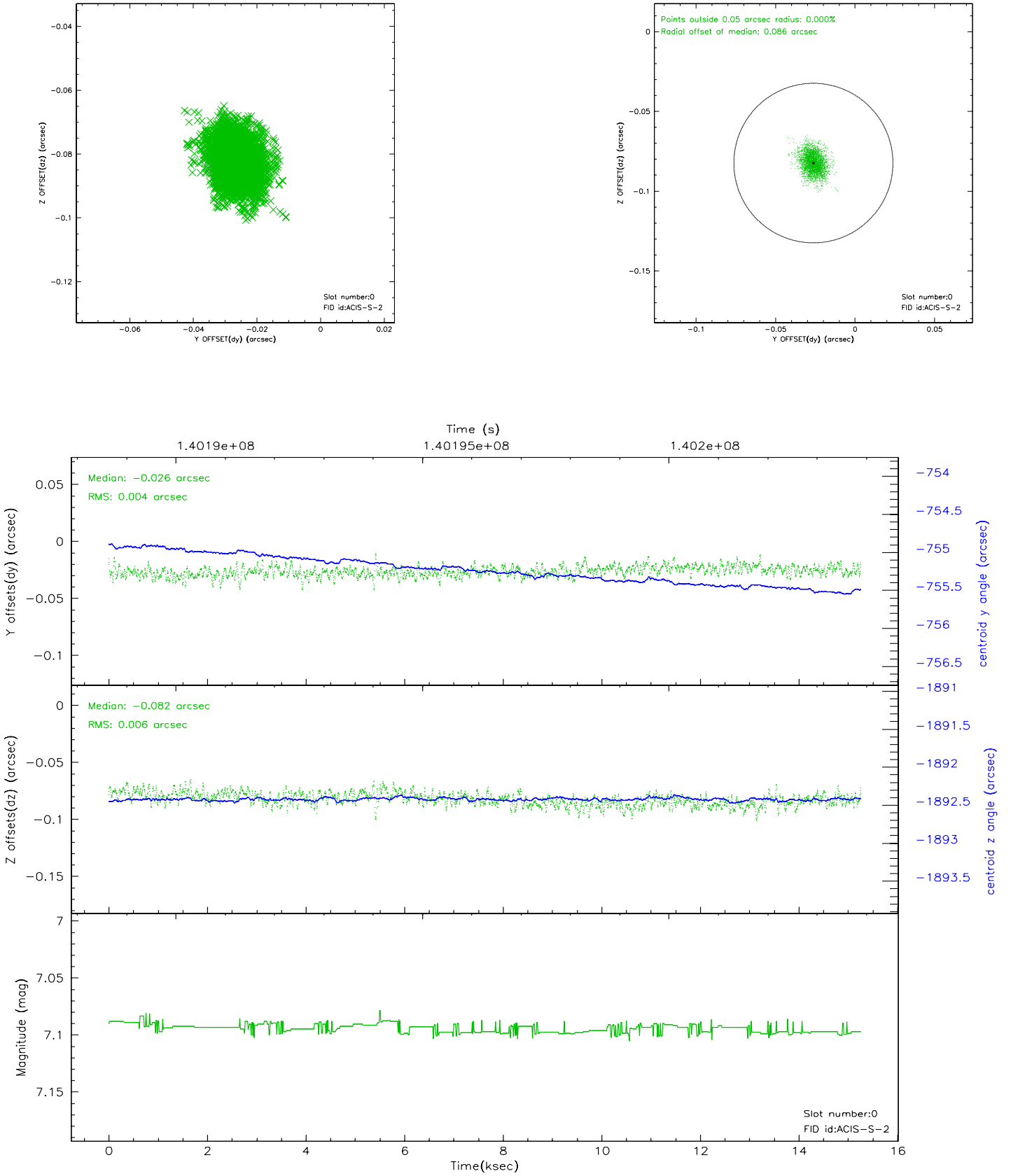


2.4.5 Slot 7

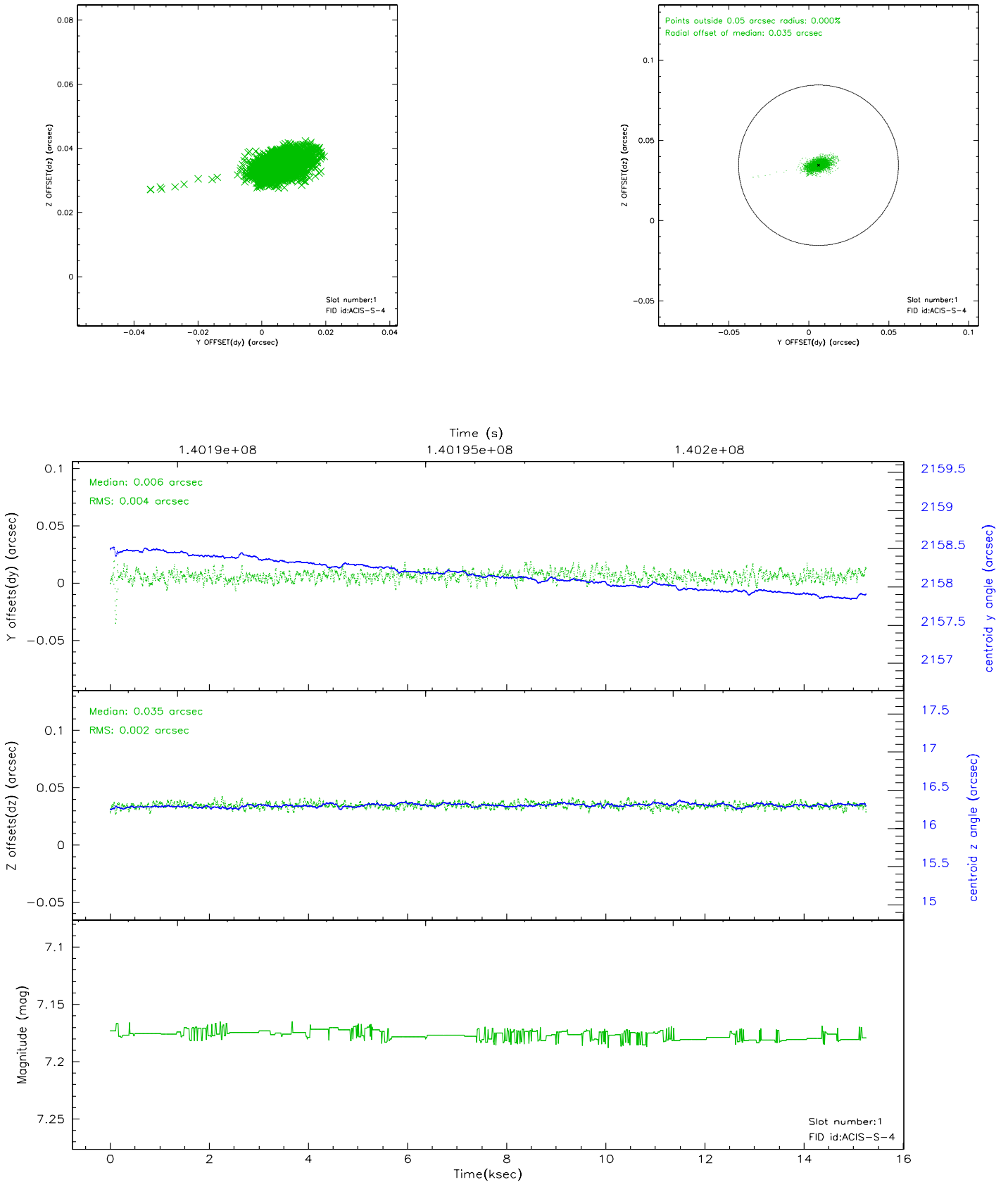


2.5 FID Slots

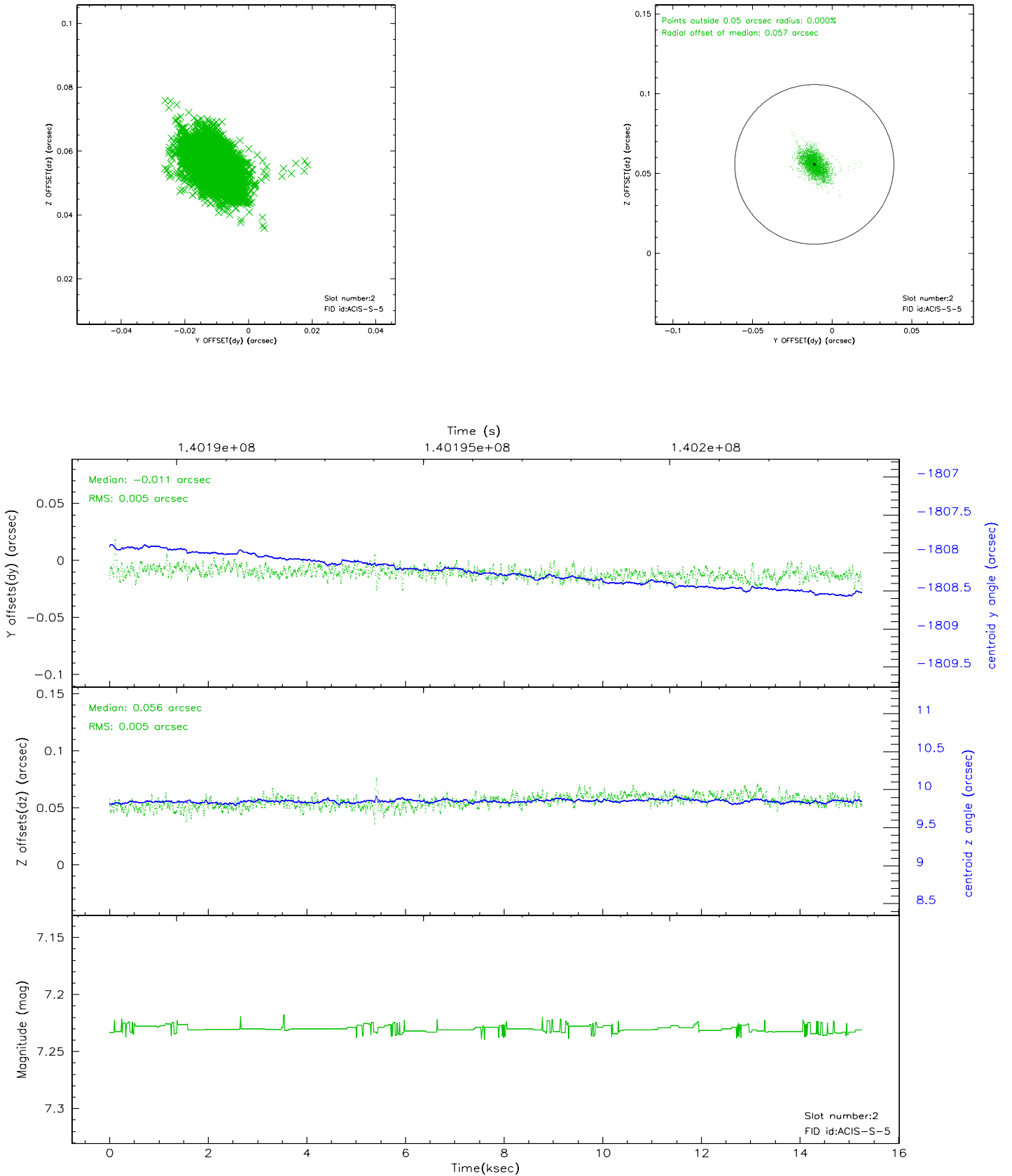
2.5.1 Slot 0



2.5.2 Slot 1

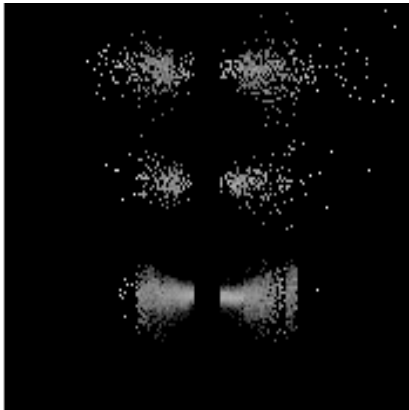


2.5.3 Slot 2

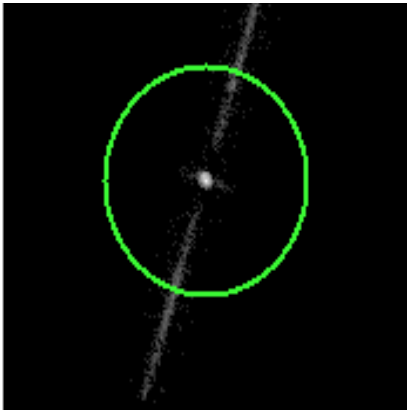


3 Gratings

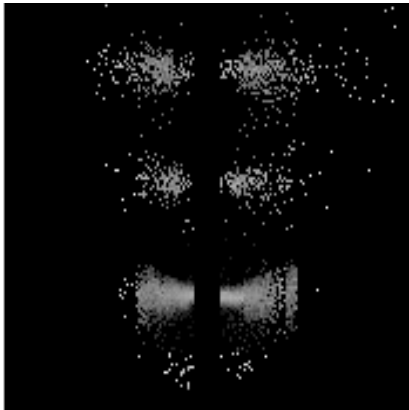
3.1 LETG Arm



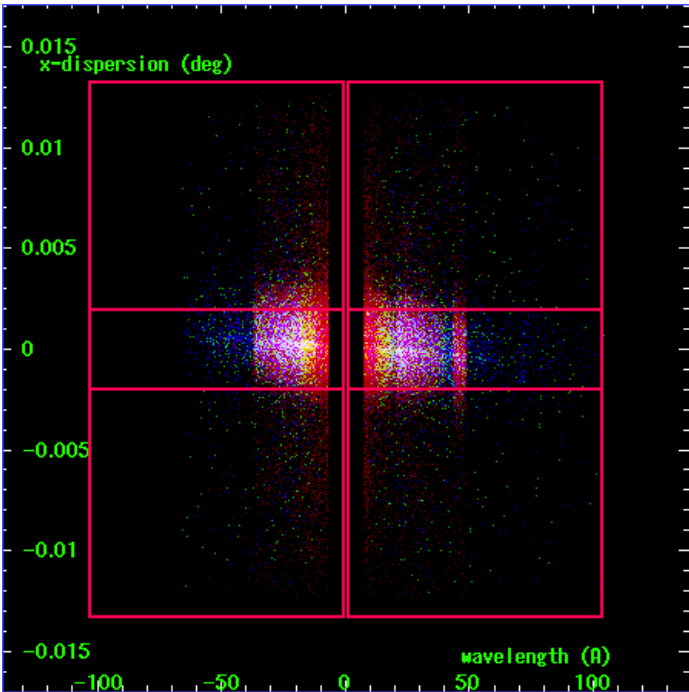
LETG Order Sort 123



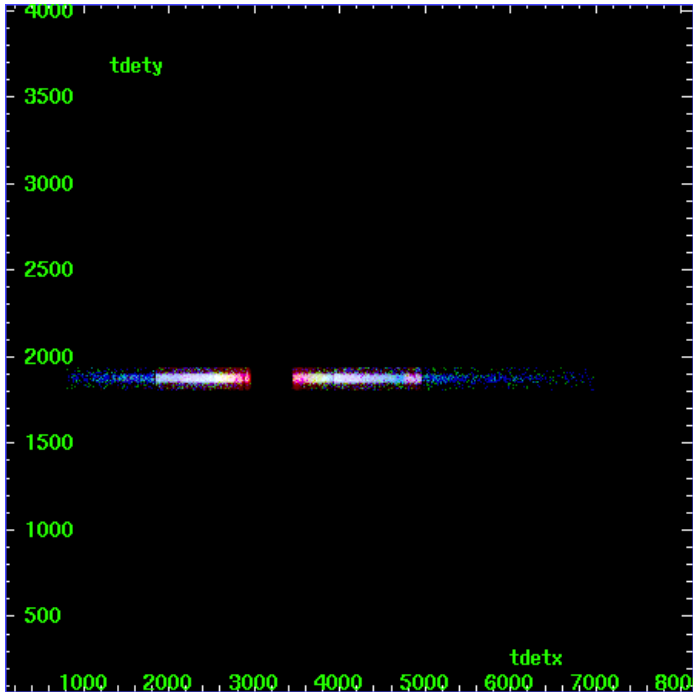
LETG Zero Order



LETG Order Sort ALL

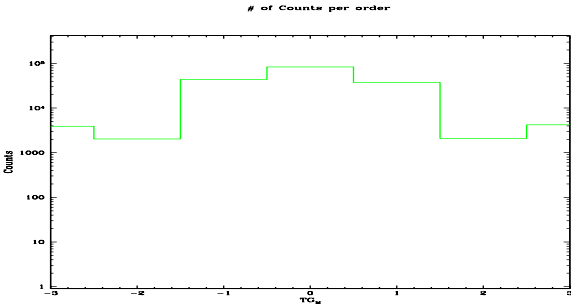


Spot Image LETG

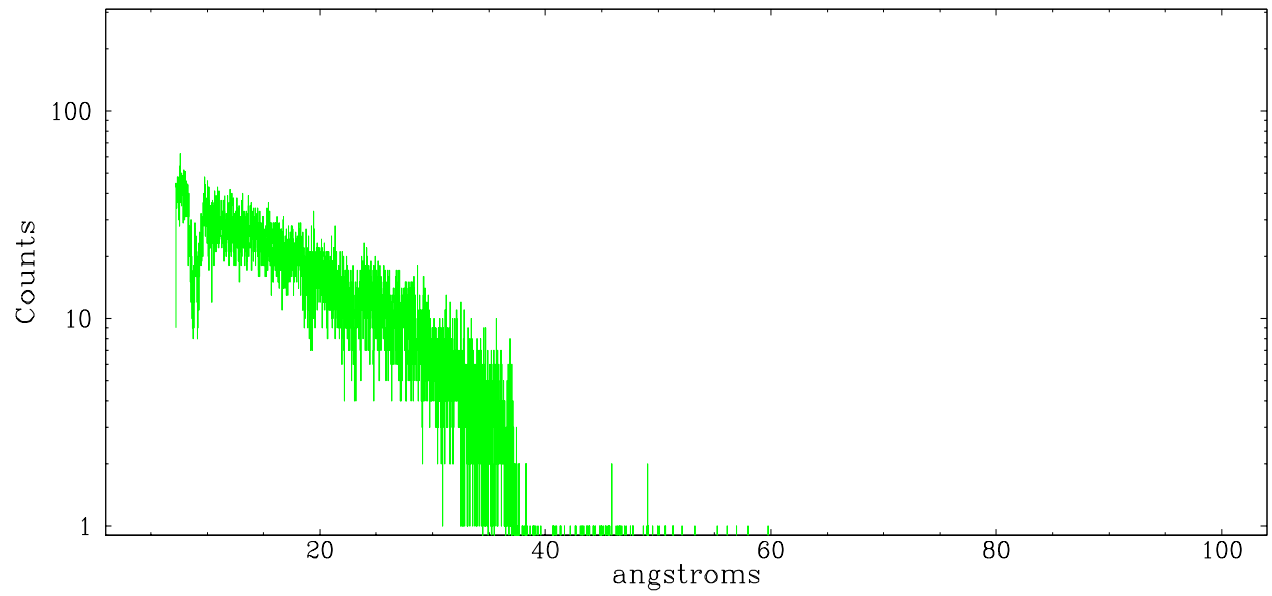


Full Detector LETG

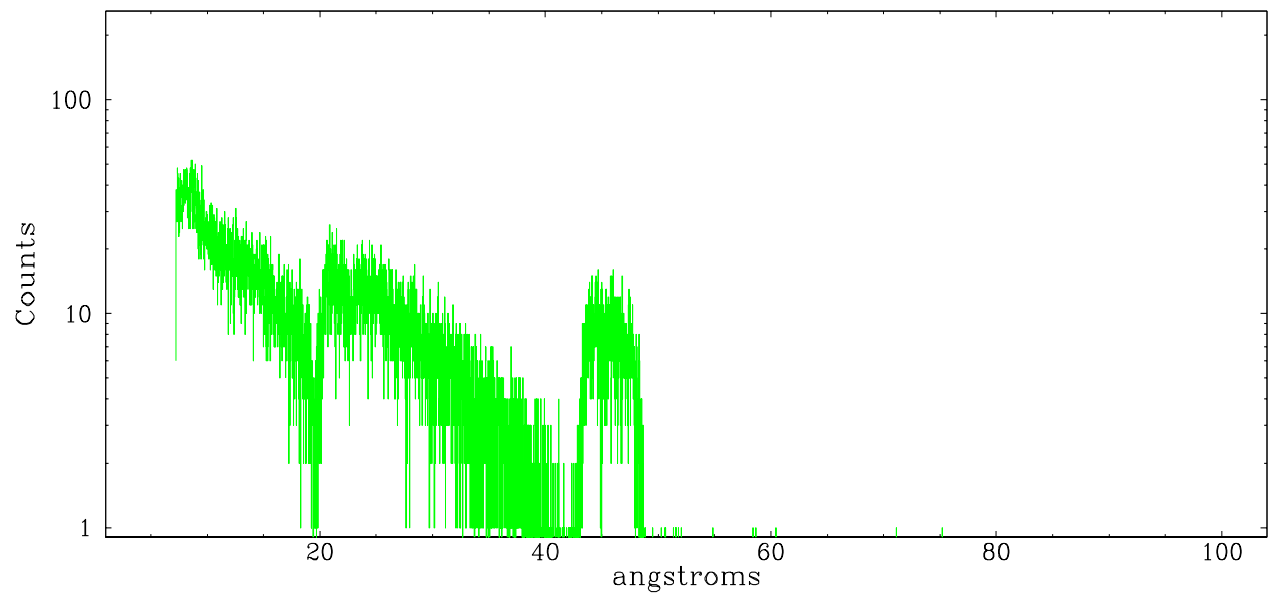
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	3896	2035	44015	83903	37630	2084	4236



leg order -1



leg order $+1$



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.012

A.2 Comments

Calibration observation to evaluate contamination buildup on ACIS.