

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 2407 - L2 Version 001
Chandra X-Ray Center

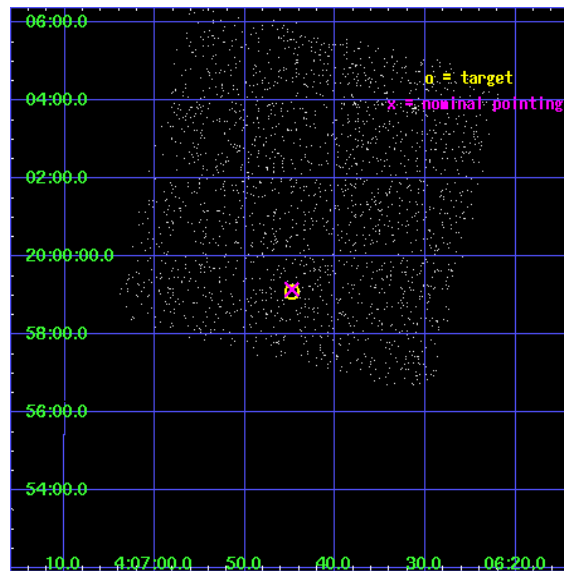
L2 Processing Date : Jun 24 2007

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1 Front

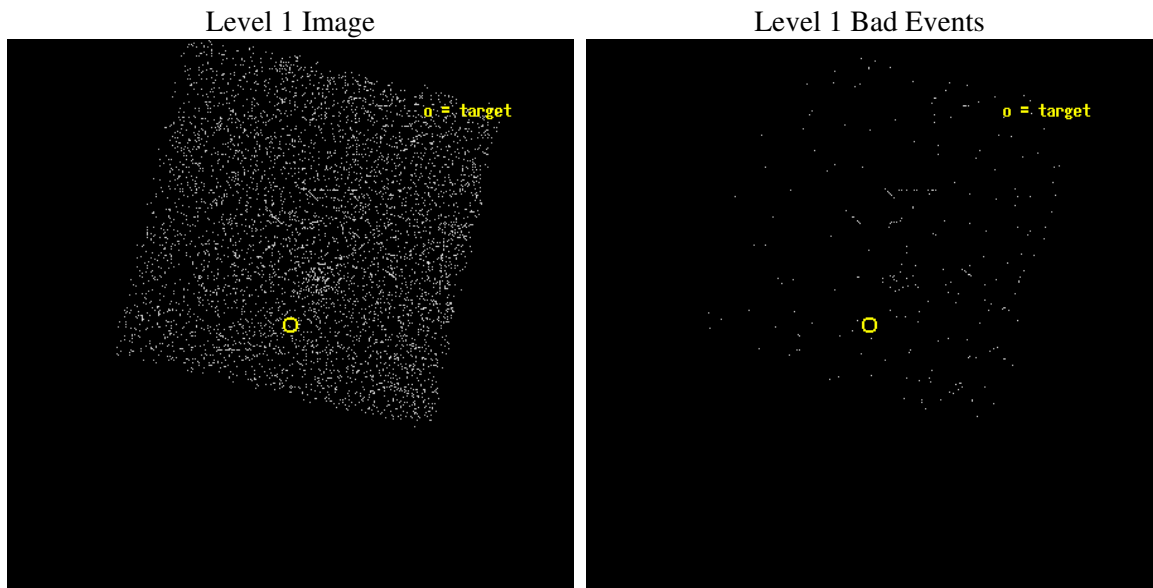
seq_num	190004
obs_id	2407
title	ACIS OBSERVATIONS OF JUPITER
observer	Dr. CXC Calibration
object	JUPITER
dtcycle	0
cycle	P
ra_targ	61.686419
dec_targ	19.985128
ra_nom	61.686766705682
dec_nom	19.985948484155
roll_nom	283.14141720655
revision	2
ontime	732.0
livetime	722.12137952806
ontime7	732.0
l2events	2166



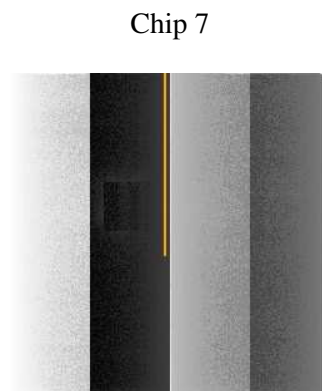
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-24T19:14:26
revision	2

sched_exp_time	100.000000
ontime	732.0
ontime7	732.0
l1events	5578

2.1.4 Events

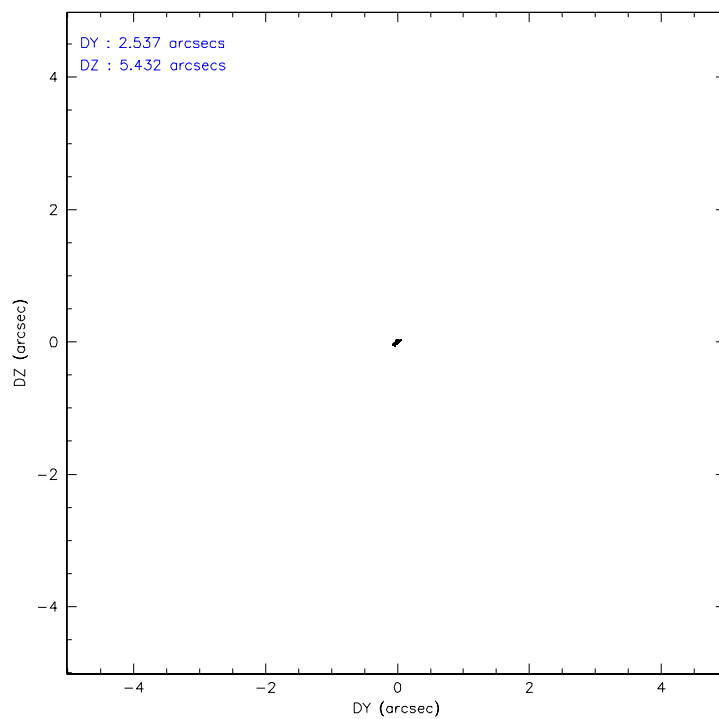
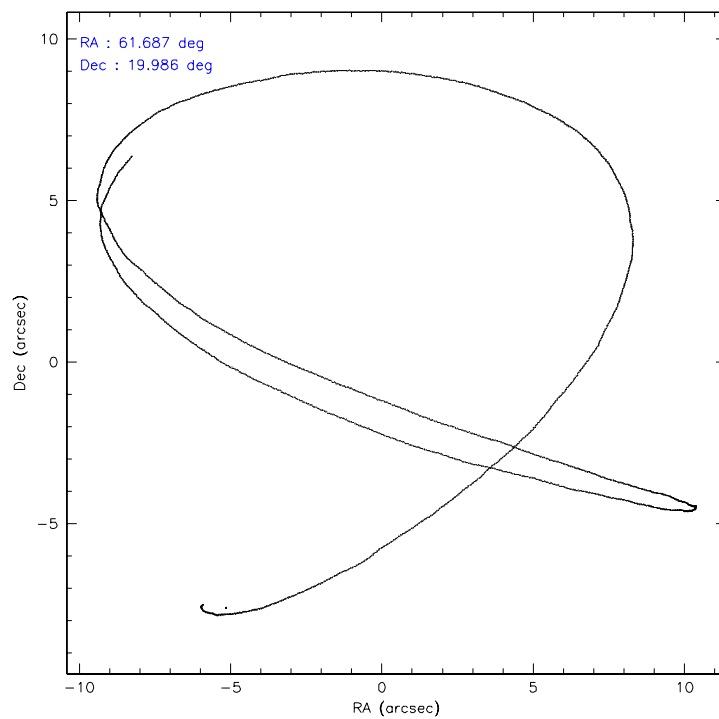
	ccd 7
level 1 events	5578
rejected events	3381
rejected %	60%

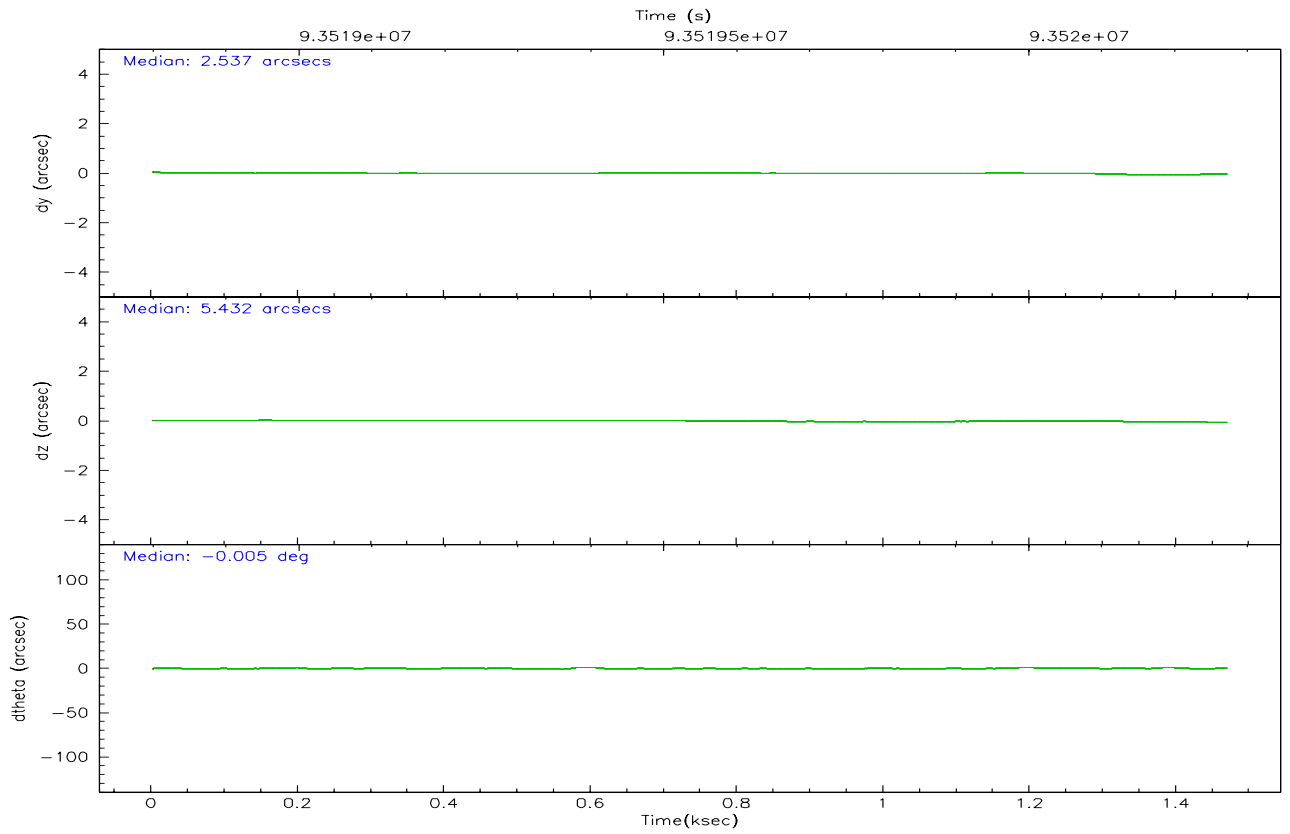
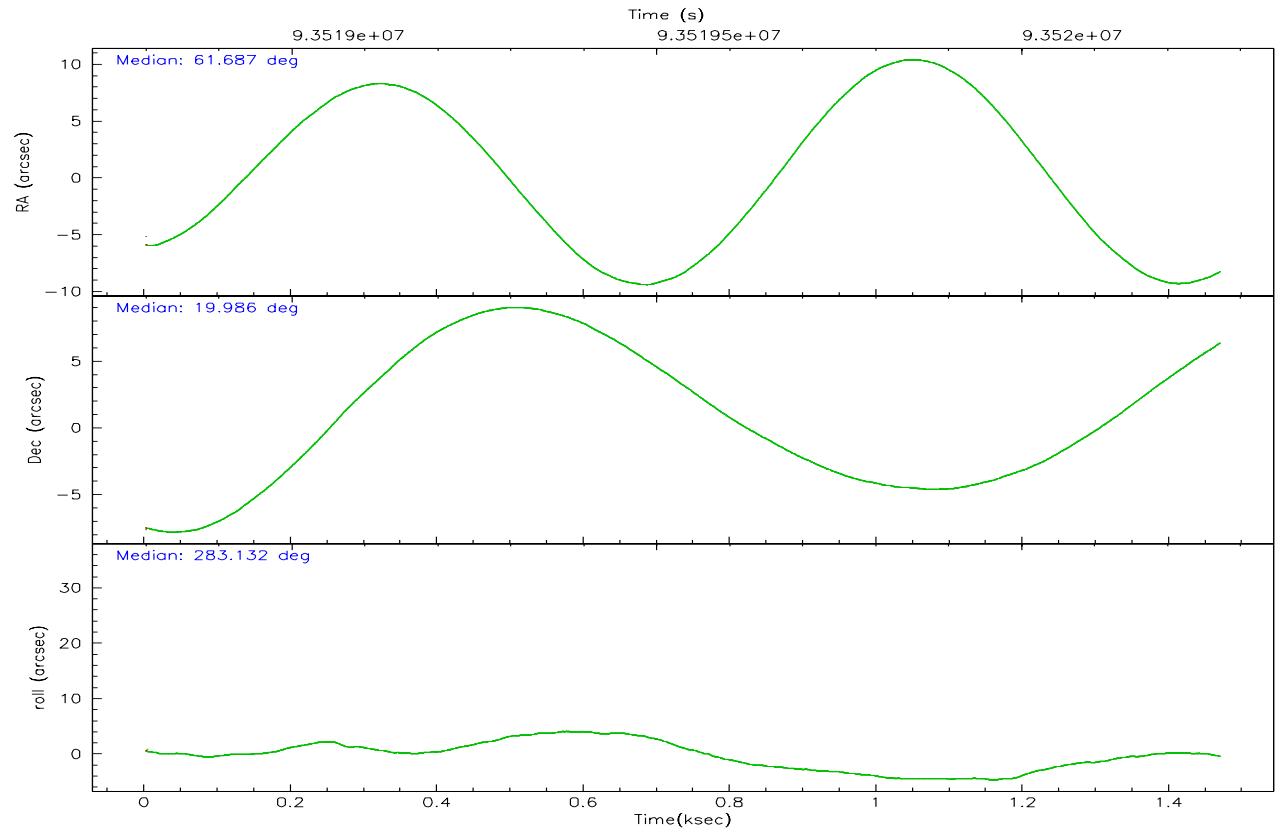
	ccd 7
grade 0 events	178
	3%
grade 1 events	3
	0%
grade 2 events	463
	8%
grade 3 events	177
	3%
grade 4 events	200
	3%
grade 5 events	534
	9%
grade 6 events	1205
	21%
grade 7 events	2818
	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	61.666668	61.68676670568248	Subarray requested	NONE	NONE
Pointing Dec	20.005949	19.98594848415479	Alternating exposures requested	N	N
Pointing Roll	282.991625	283.1414172065476	Primary exposure time	0.000000	3
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	93520170.184000	93518624.206268			
Observation start date	2000-12-18T09:48:26	2000-12-18T09:23:44			
Observation end time	93520270.184000	93520467.156339			
Observation end date	2000-12-18T09:50:06	2000-12-18T09:54:27			
Read mode	TIMED	TIMED			

2.3 Aspect



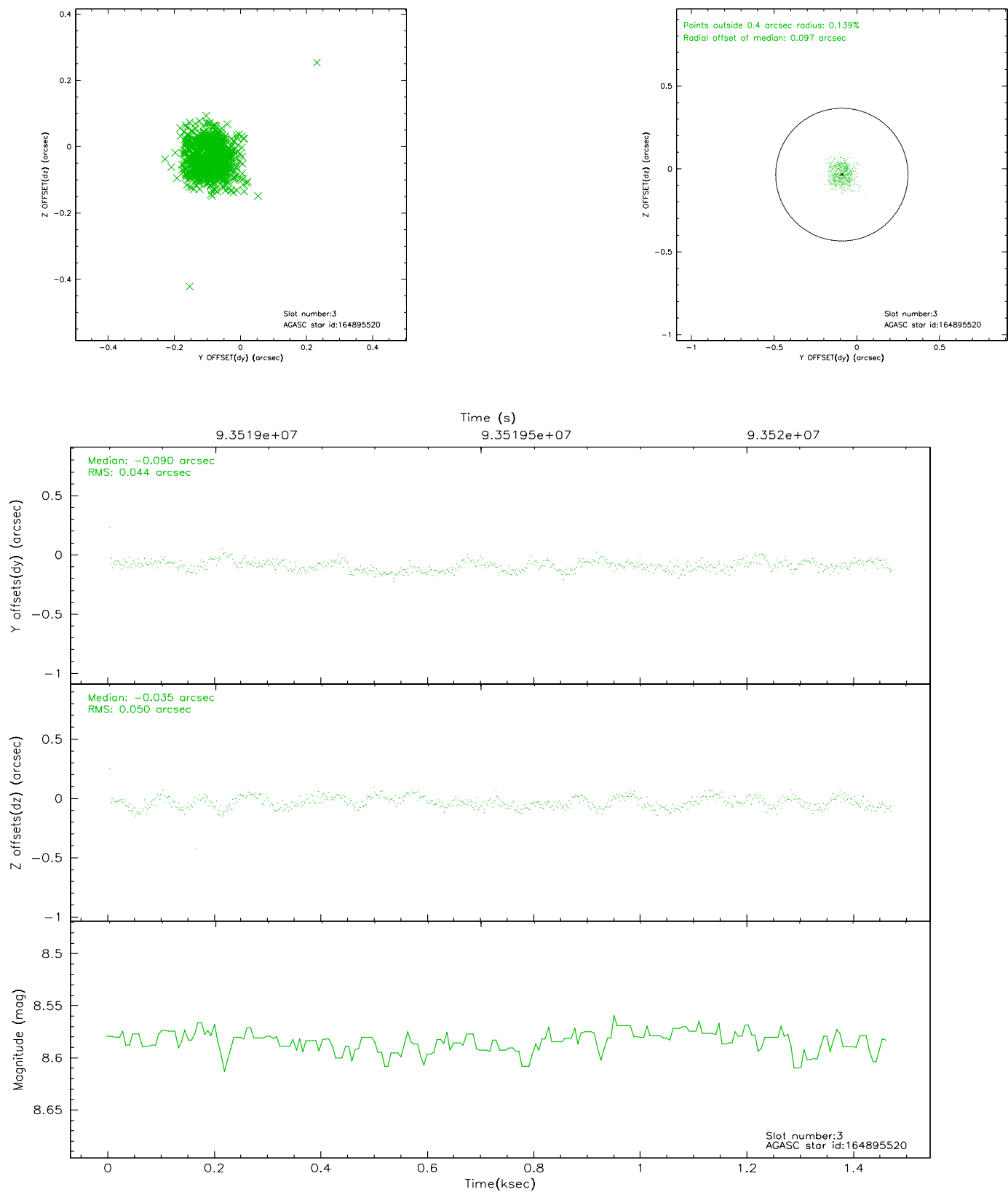


Slot Statistics

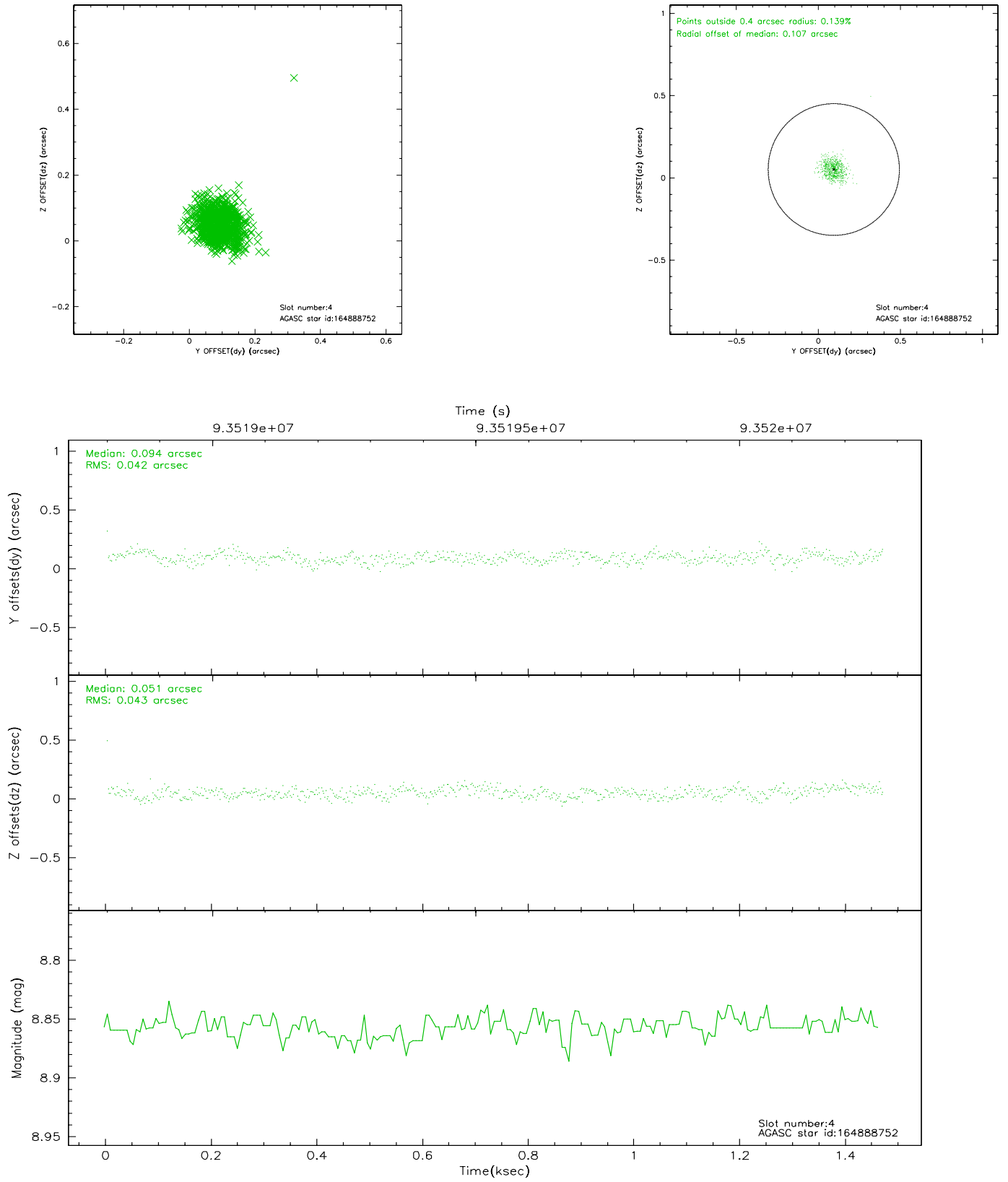
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	359	-0.030	0.021	0.005	0.010	0.000000	0.000000	-755.16	-1726.55
1	FID	ACIS-S-4	7.20	359	-0.038	0.009	0.005	0.008	0.000000	0.000000	2156.04	177.33
2	FID	ACIS-S-5	7.24	359	0.036	-0.020	0.005	0.010	0.000000	0.000000	-1802.16	176.03
3	GUIDE	164895520	8.58	717	-0.090	-0.035	0.068	0.107	61.309800	20.139312	-741.16	-1067.59
4	GUIDE	164888752	8.86	717	0.094	0.051	0.061	0.099	61.568386	19.874602	383.96	-432.23
5	GUIDE	164890352	9.06	714	0.002	-0.039	0.105	0.166	61.028629	19.972872	-373.45	-2130.43
6	GUIDE	165022968	9.62	705	-0.003	0.006	0.112	0.175	62.230781	20.386000	-910.23	2159.69
7	GUIDE	165021720	9.56	716	-0.002	0.012	0.089	0.158	62.234537	20.170723	-152.43	2006.55

2.4 Star Slots

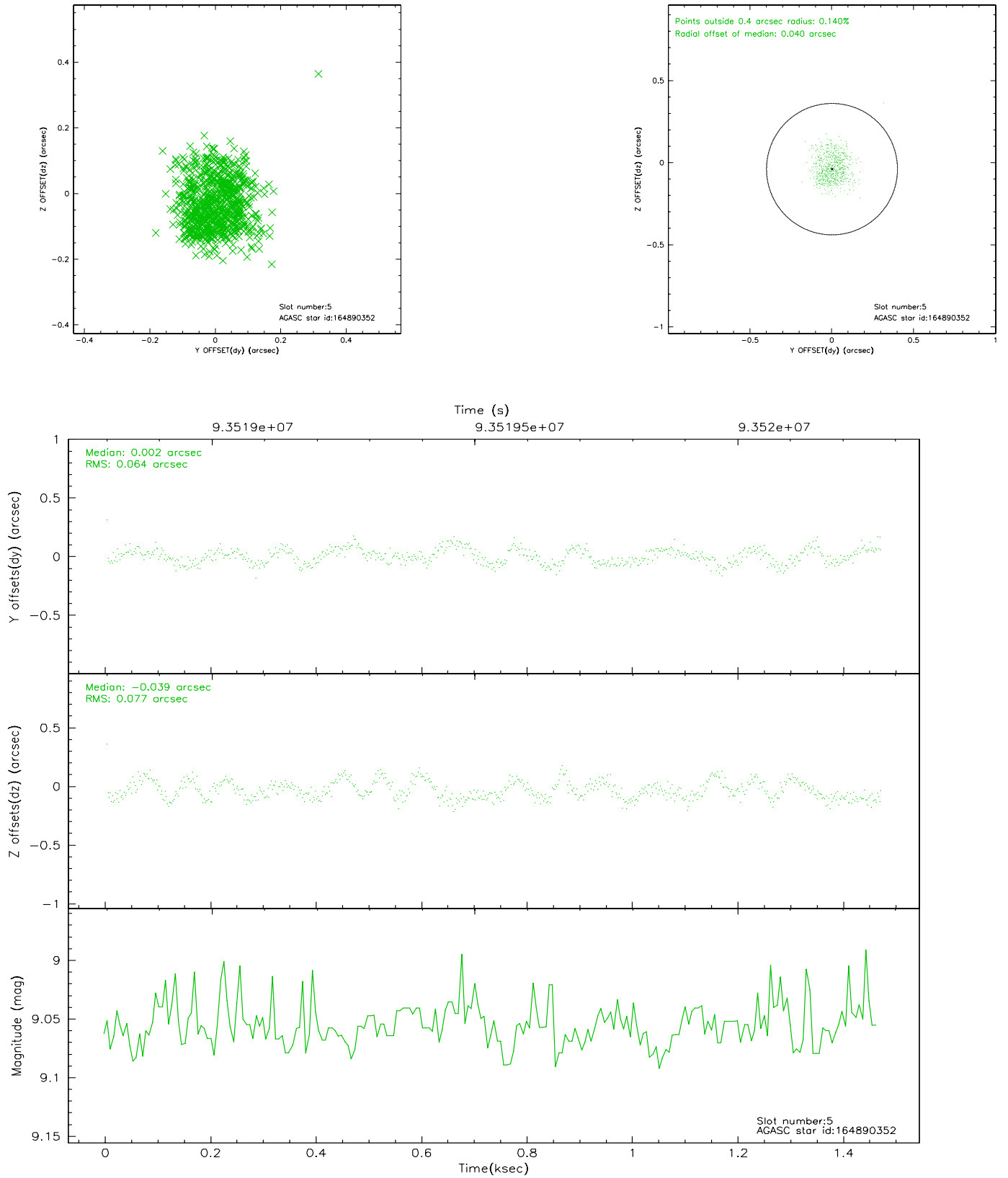
2.4.1 Slot 3



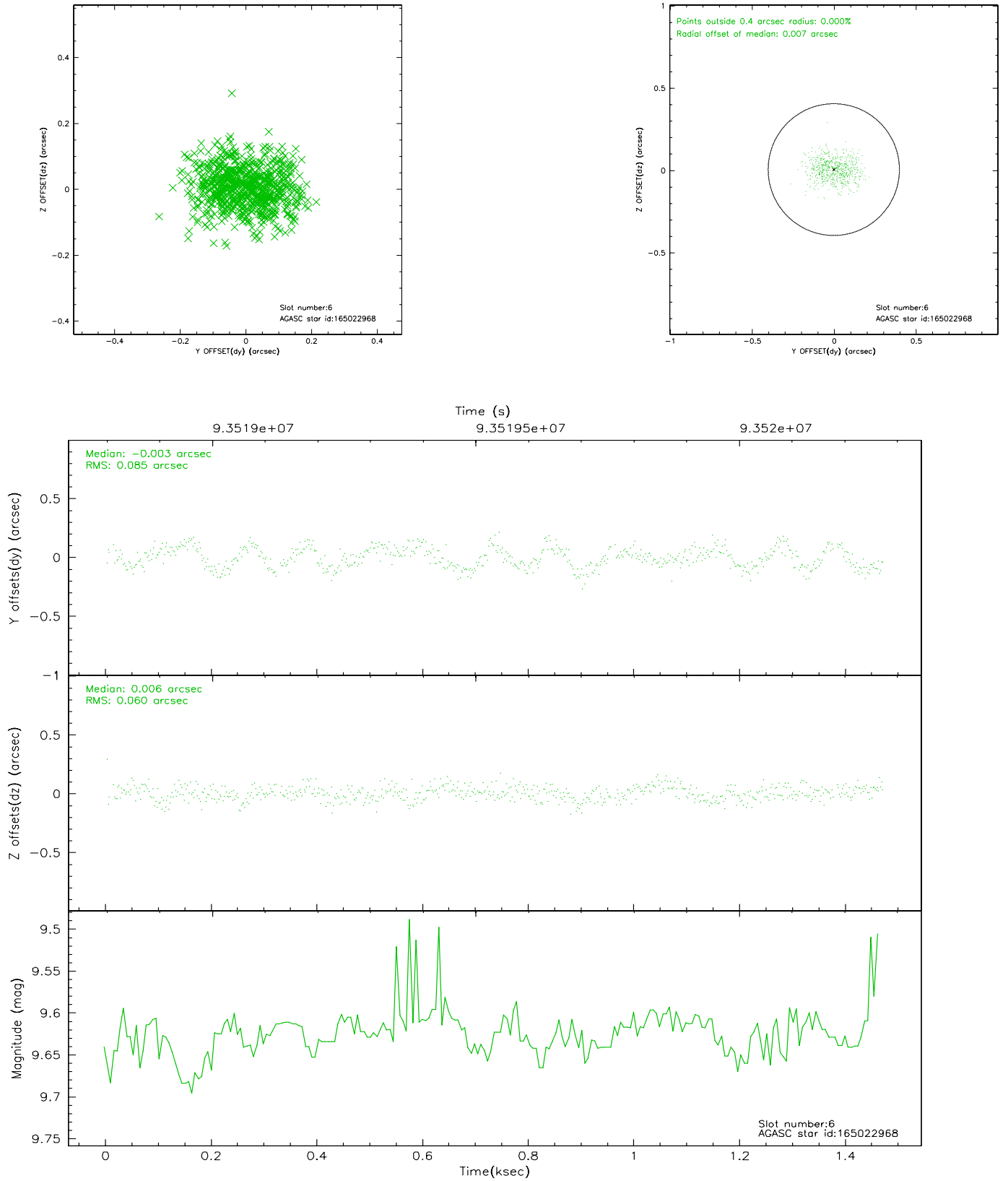
2.4.2 Slot 4



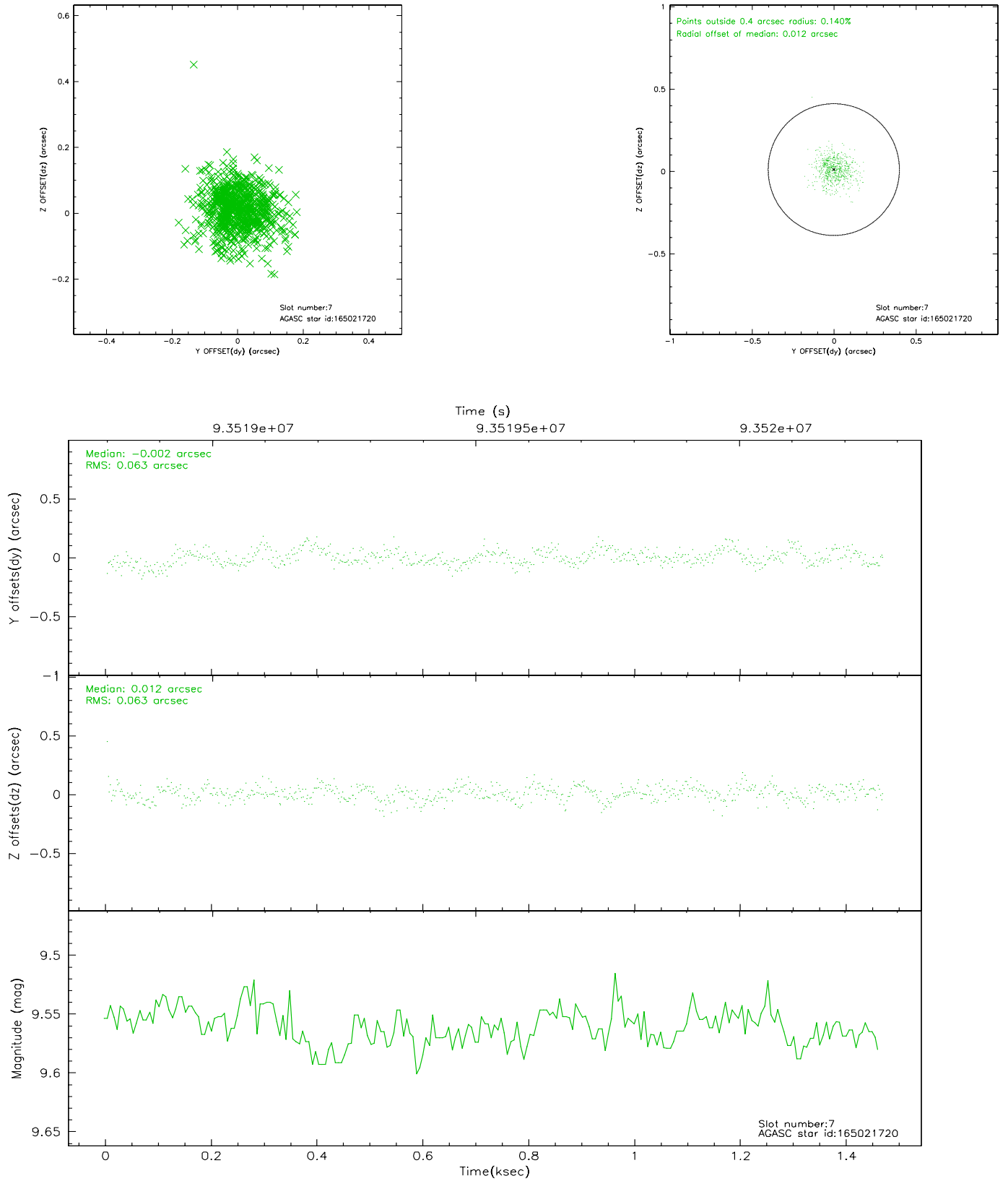
2.4.3 Slot 5



2.4.4 Slot 6

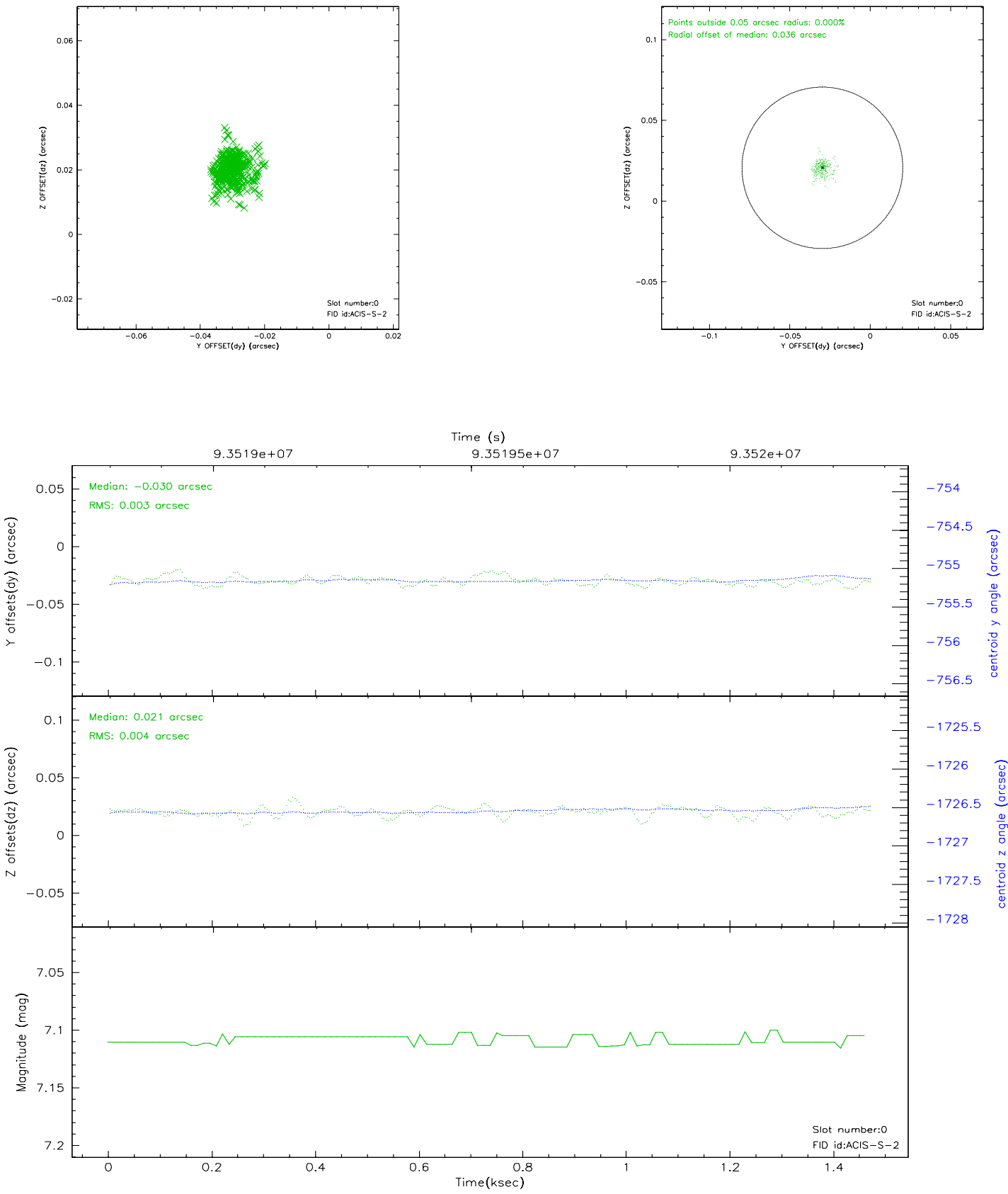


2.4.5 Slot 7

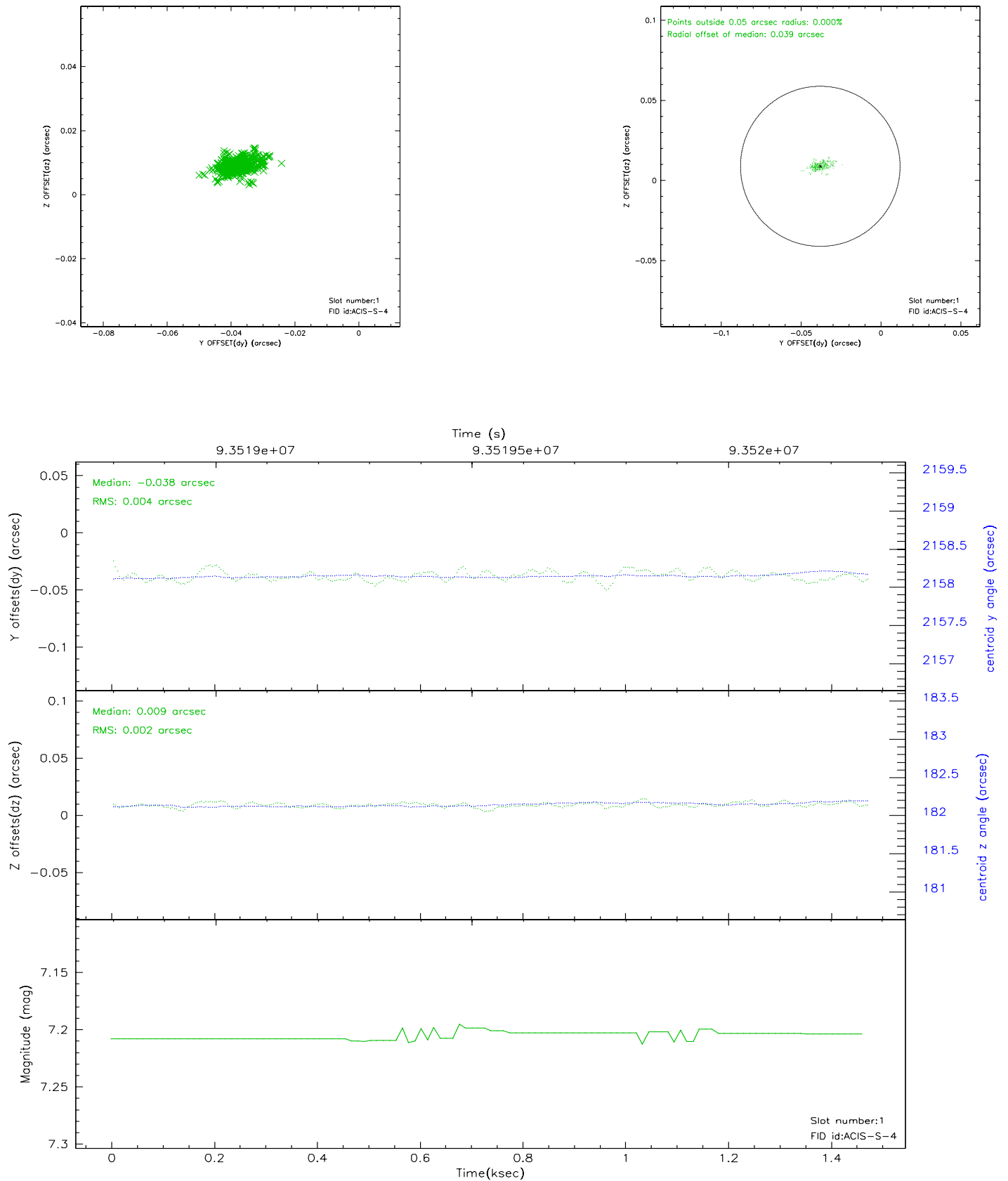


2.5 FID Slots

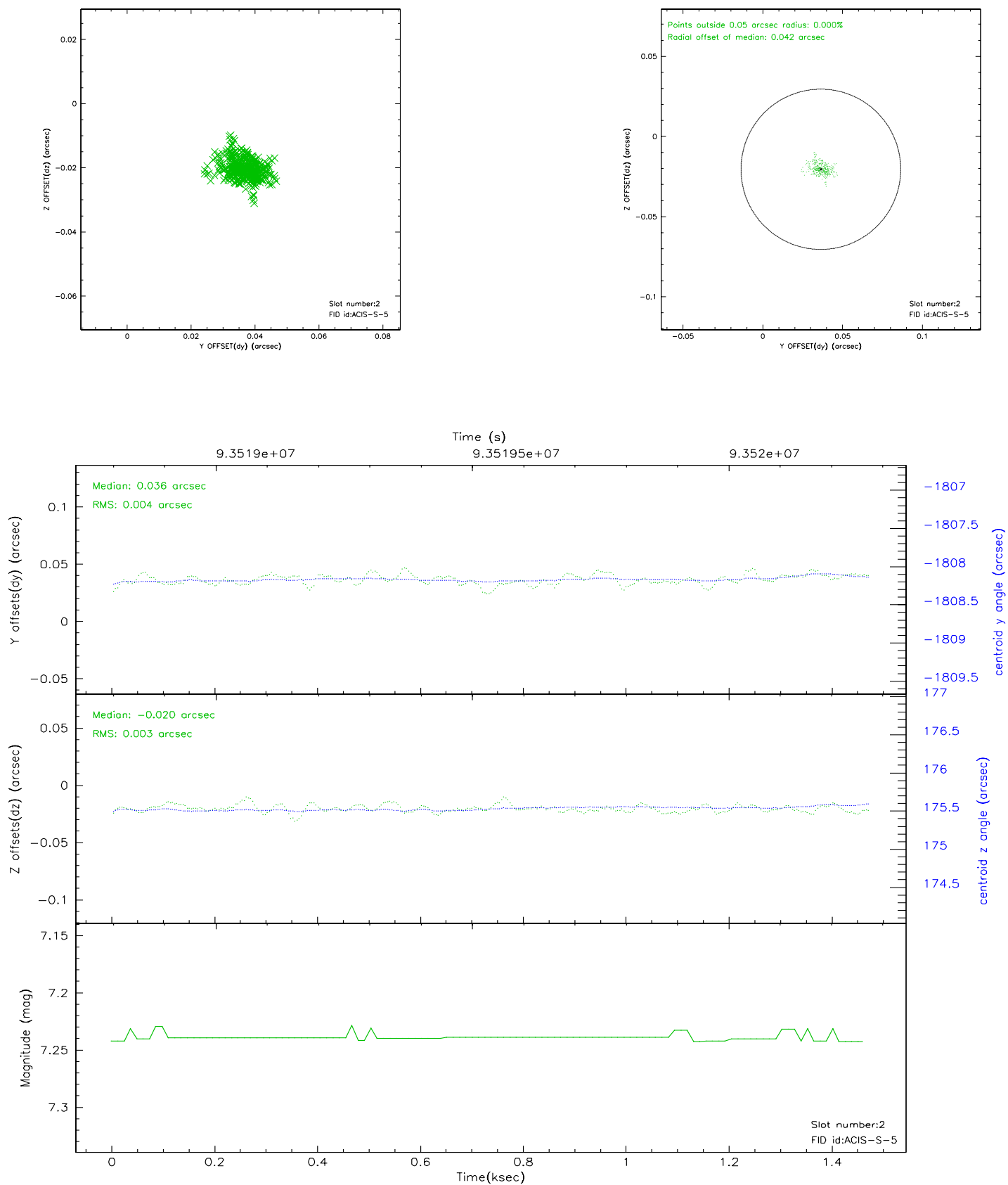
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.735

A.2 Comments

The CCD bias map included a ghost image of Jupiter. In order to remove this artifact, a square containing the ghost image was removed from the bias map and replaced with the value 4096. The bias map was then reconstructed using scaled data from the comparable bias map from obs2398 to fill in the gap. The replaced data were from the region [299:461,519:678].

Jupiter is very faint in this observation: many events associated with the primary source are grade seven and therefore removed from the L2 image.