

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3980 - L2 Version 3
Chandra X-Ray Center

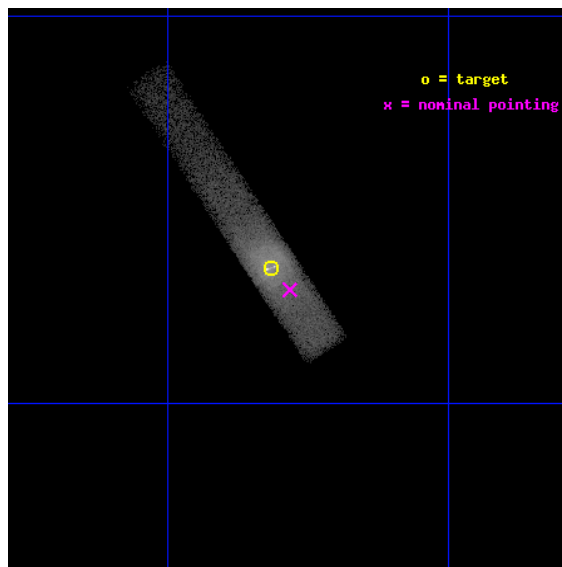
L2 Processing Date : Oct 28 2012

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1 Front

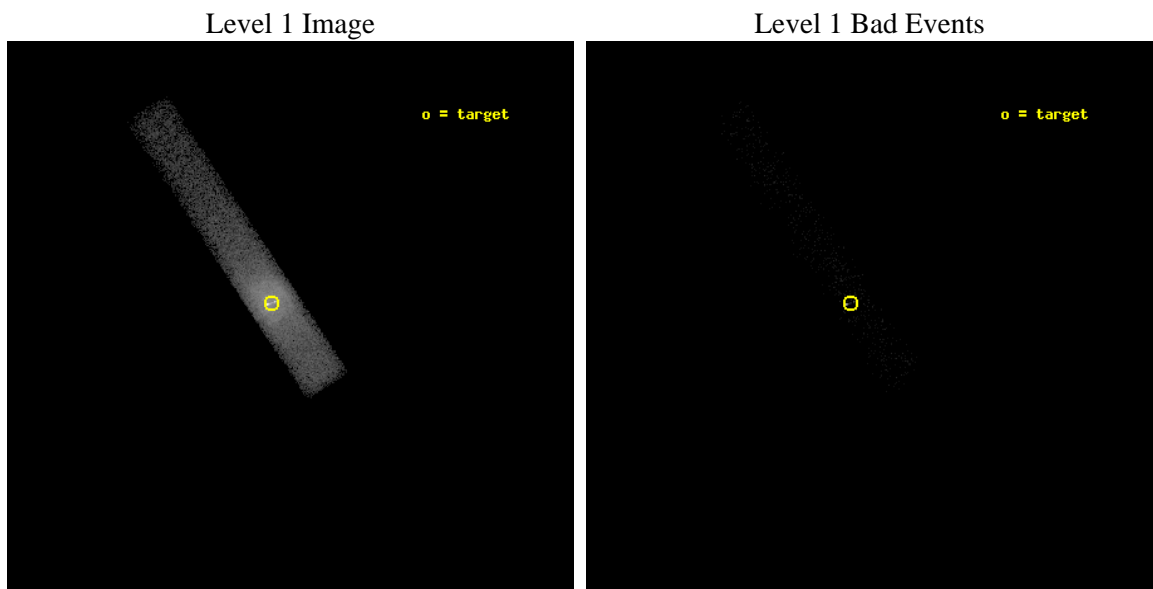
seq_num	700659	Sequence number
obs_id	3980	Observation id
title	X-RAY VARIABILITY IN THE JET AND CORE OF M87	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69569131208	Nominal RA [deg]
dec_nom	12.382328829734	Nominal Dec [deg]
roll_nom	236.4564229368	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5280.0000786483	Sum of GTIs [s]
livetime	4788.6813700783	Livetime [s]
ontime7	5280.0000786483	Sum of GTIs [s]
l2events	57815	Number of level 2 events



2 OBI

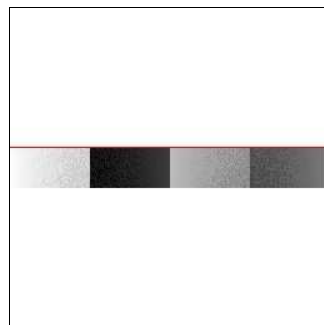
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4903.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5280.0000786483	Sum of GTIs [s]
caldsver	4.5.2	 	ontime7	5280.0000786483	Sum of GTIs [s]
date	2012-10-28T13:26:45	Date and time of file creation	l1events	64377	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

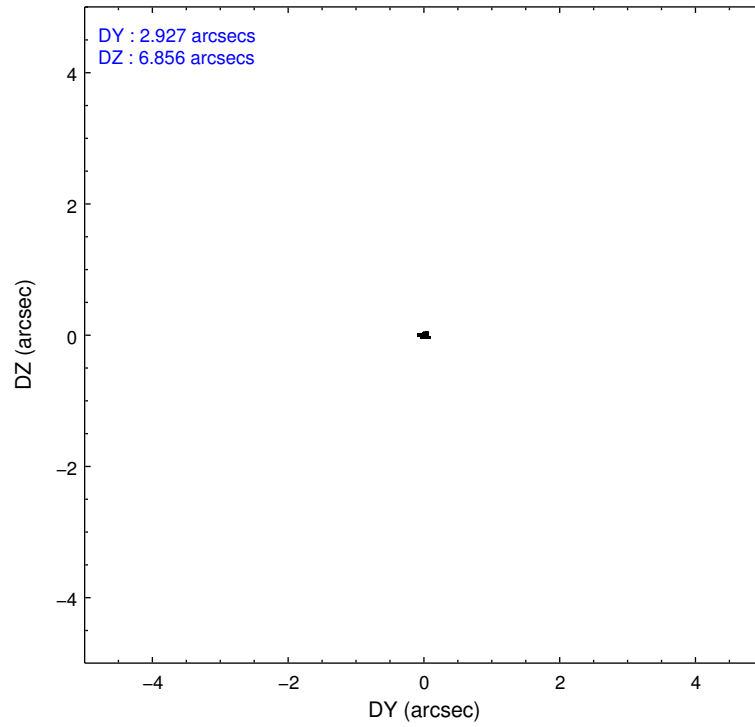
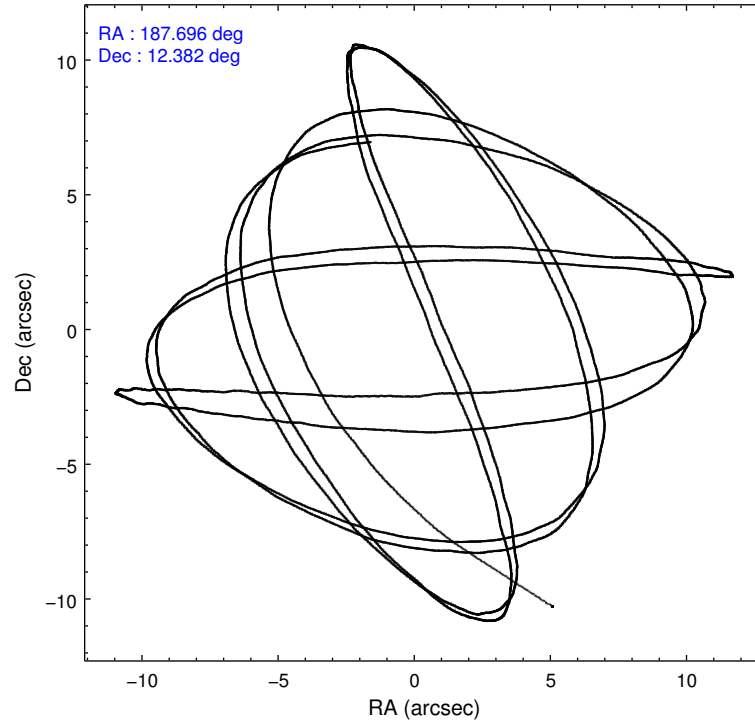
	ccd 7
level 1 events	64377
rejected events	6000
rejected %	9%

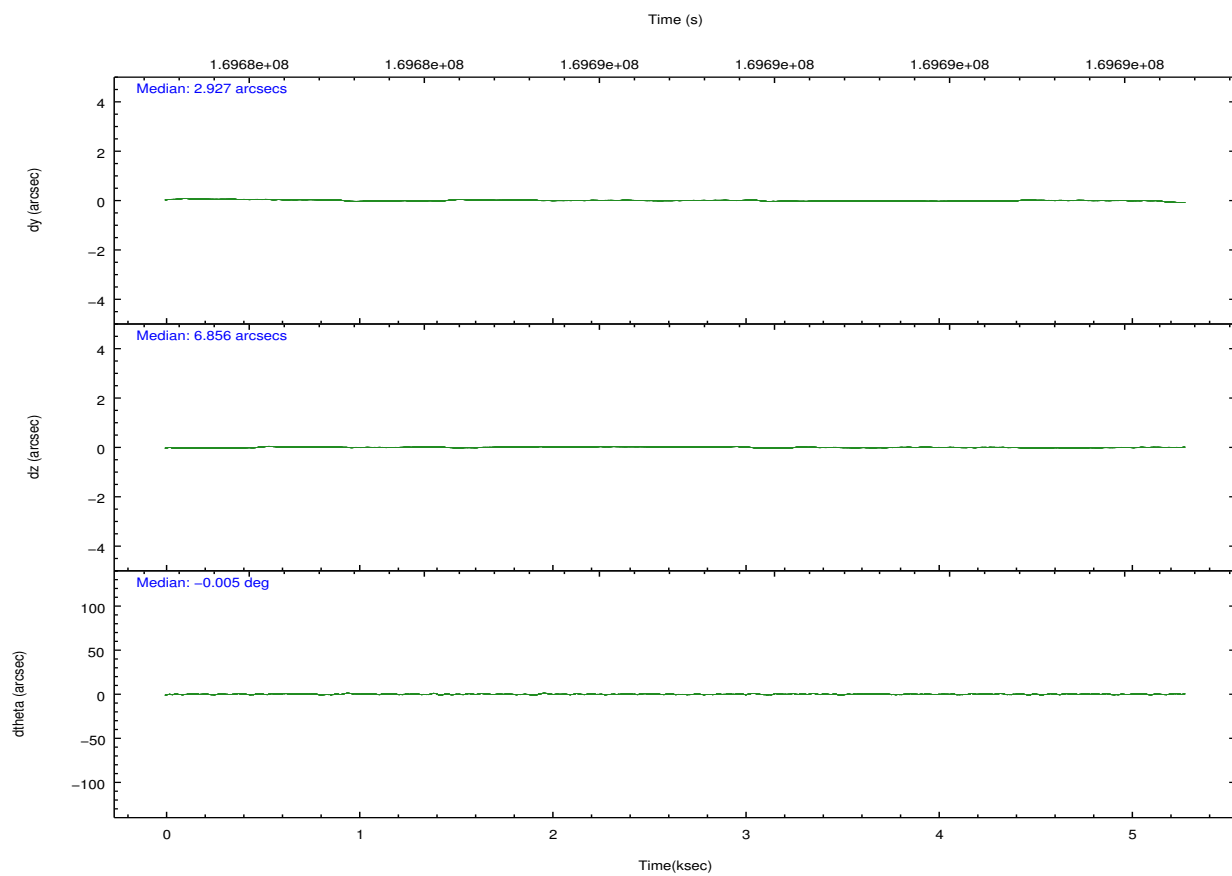
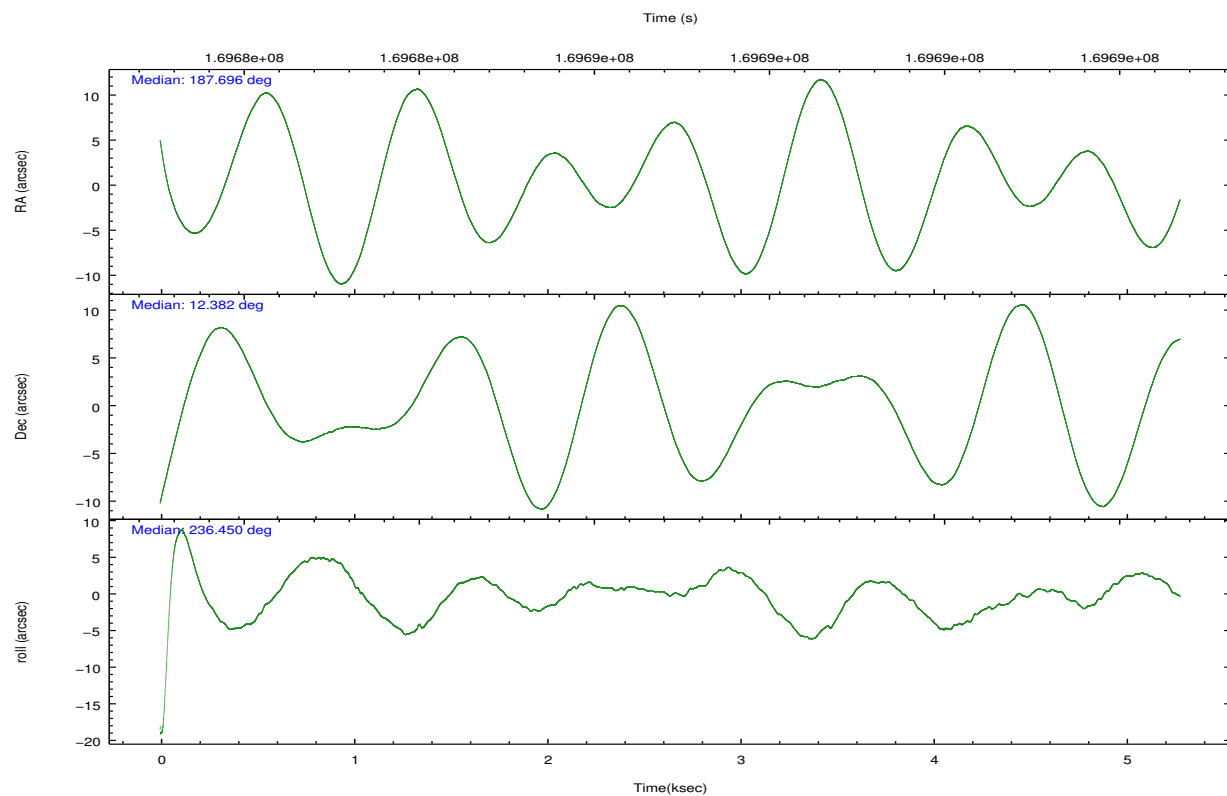
	ccd 7
grade 0 events	19660
	30%
grade 1 events	115
	0%
grade 2 events	15432
	23%
grade 3 events	7149
	11%
grade 4 events	7068
	10%
grade 5 events	1115
	1%
grade 6 events	10686
	16%
grade 7 events	3152
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	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
[deg] Pointing RA	187.697073	187.6956913120782	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.409510	12.38232882973395	Subarray start row	449	449
[deg] Pointing Roll	236.299561	236.4564229368007	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	169684162.184000	169683103.43136			
Observation start date	2003-05-18T22:28:18	2003-05-18T22:11:43			
[s] Observation end time (MET)	169689065.184000	169689656.25664			
Observation end date	2003-05-18T23:50:01	2003-05-19T00:00:56			
Read mode	TIMED	TIMED			

2.3 Aspect



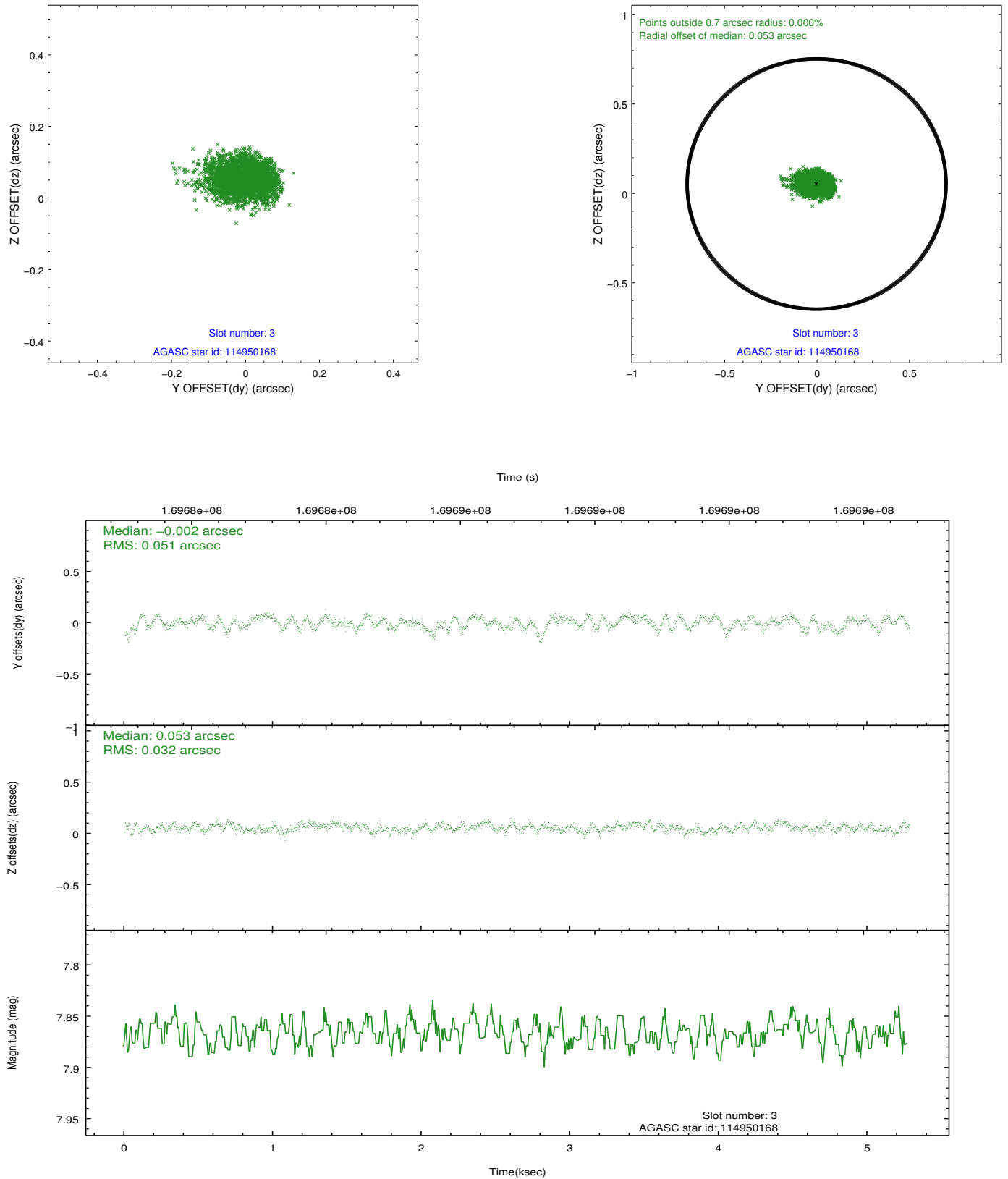


Slot Statistics

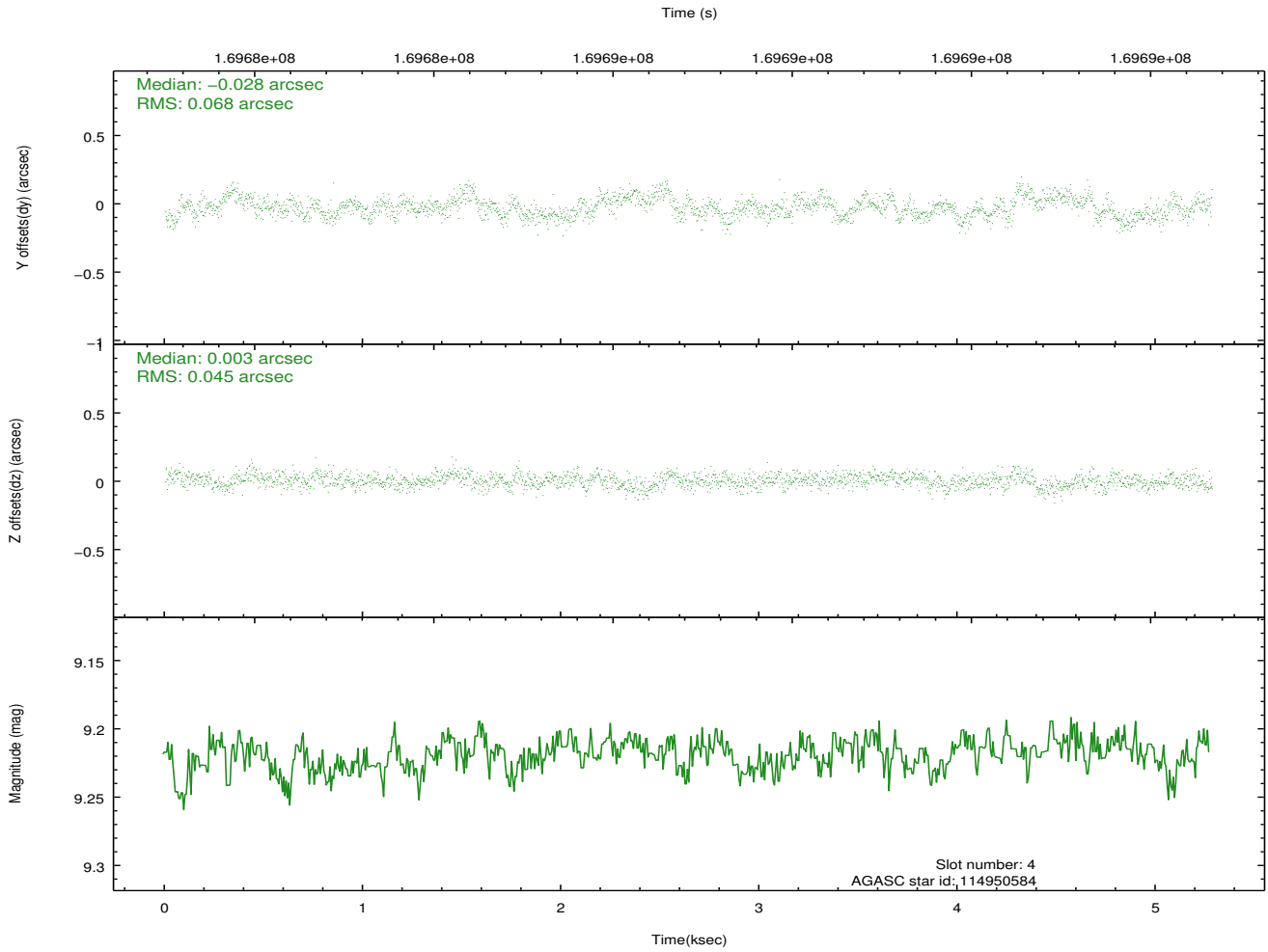
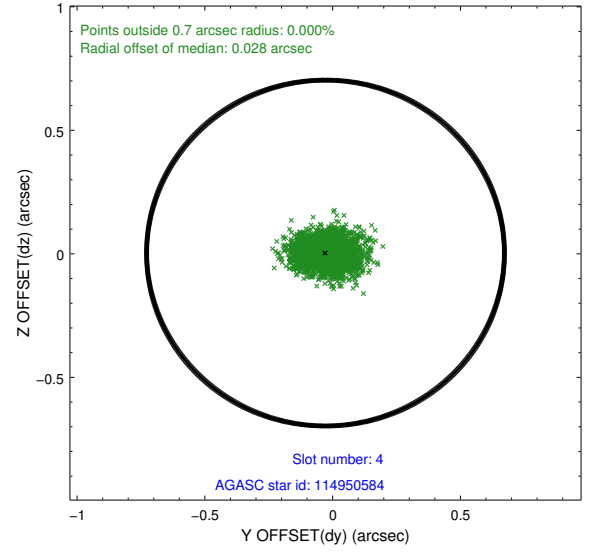
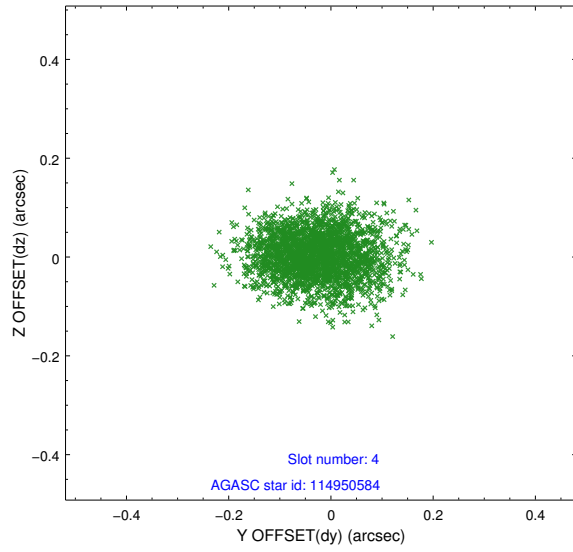
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1288	-0.038	-0.013	0.006	0.010	0.000000	0.000000	-755.59	-1727.99
1	FID	ACIS-S-4	7.20	1288	0.034	0.022	0.005	0.009	0.000000	0.000000	2157.22	179.38
2	FID	ACIS-S-5	7.24	1288	-0.026	-0.000	0.006	0.010	0.000000	0.000000	-1806.96	174.29
3	GUIDE	114950168	7.87	2577	-0.002	0.053	0.065	0.101	187.143398	12.117441	1954.84	-1038.53
4	GUIDE	114950584	9.22	2574	-0.028	0.003	0.086	0.141	187.487323	11.827248	2154.77	548.01
5	GUIDE	114952824	8.57	2577	-0.037	0.103	0.068	0.109	187.703904	12.486727	-243.41	-133.85
6	GUIDE	114954440	9.20	2575	0.088	-0.122	0.097	0.162	186.915066	12.219118	2093.96	-1910.47
7	GUIDE	114955056	8.33	2576	-0.013	-0.035	0.060	0.097	187.914001	12.127854	420.64	1197.09

2.4 Star Slots

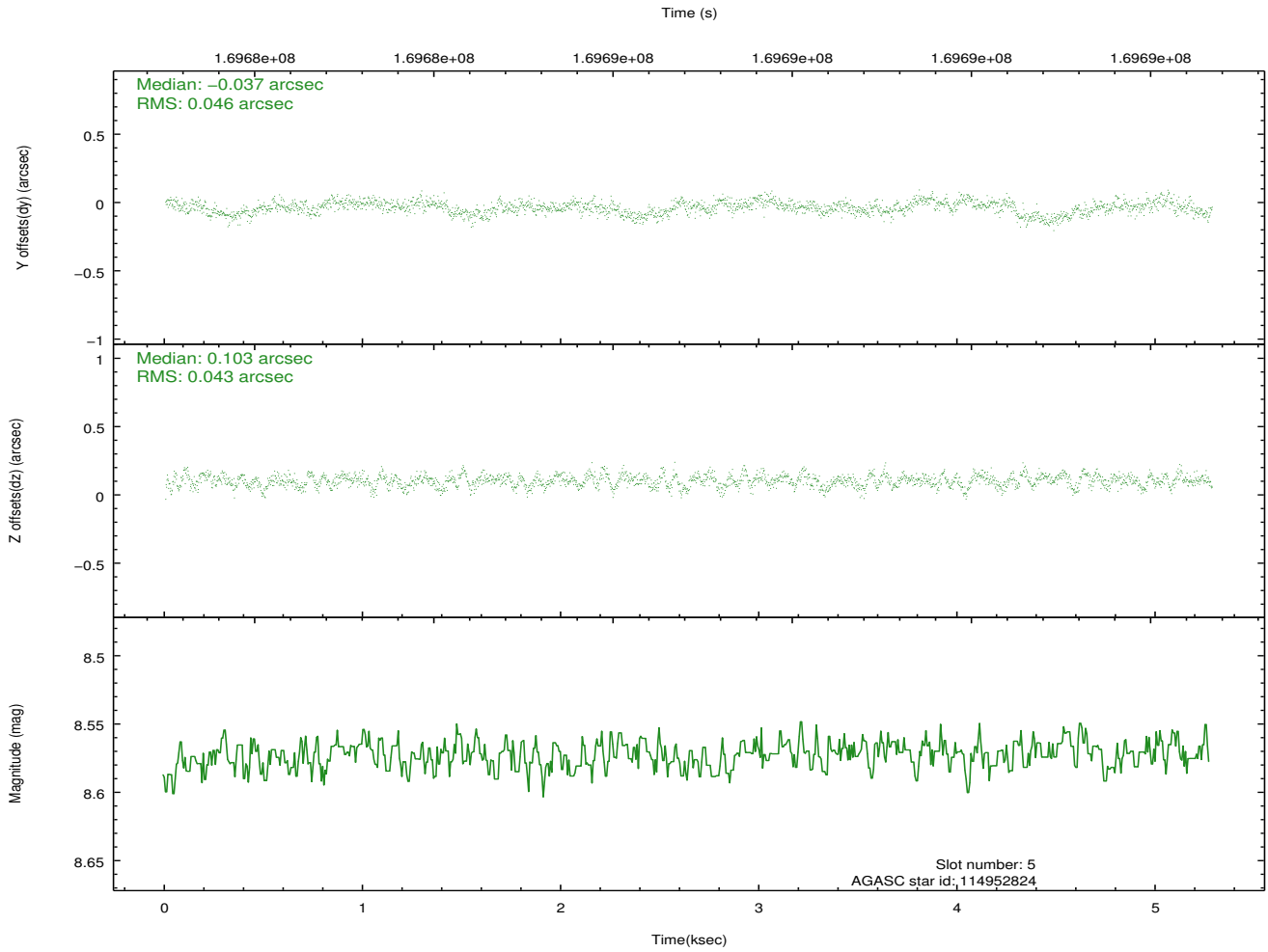
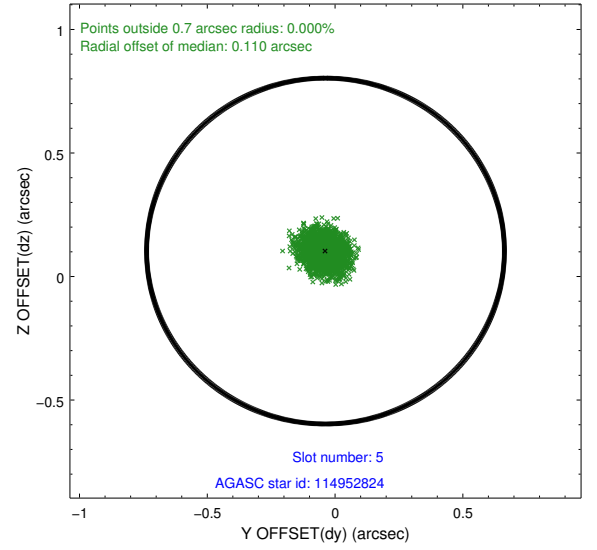
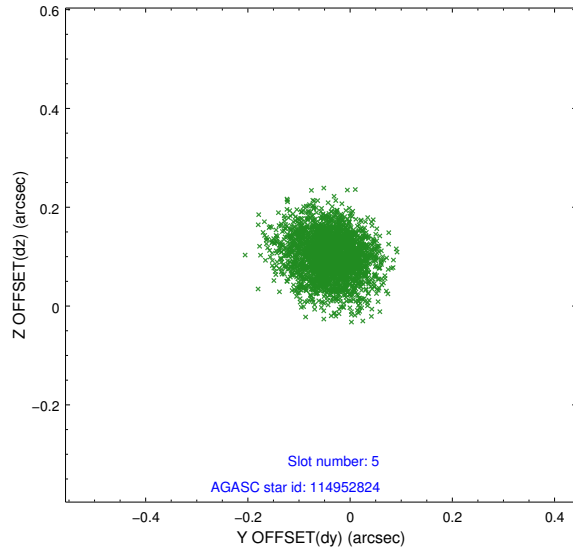
2.4.1 Slot 3



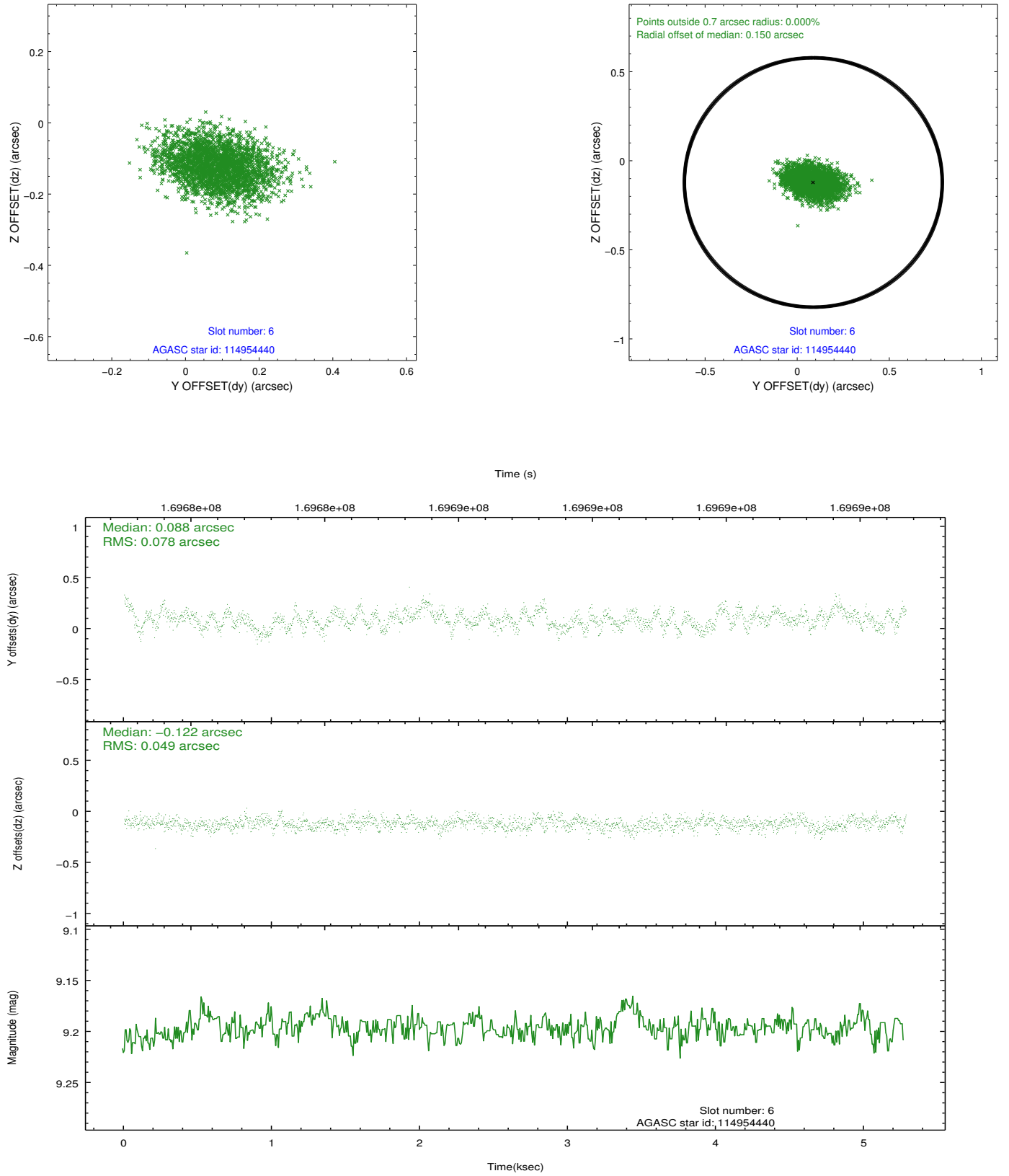
2.4.2 Slot 4



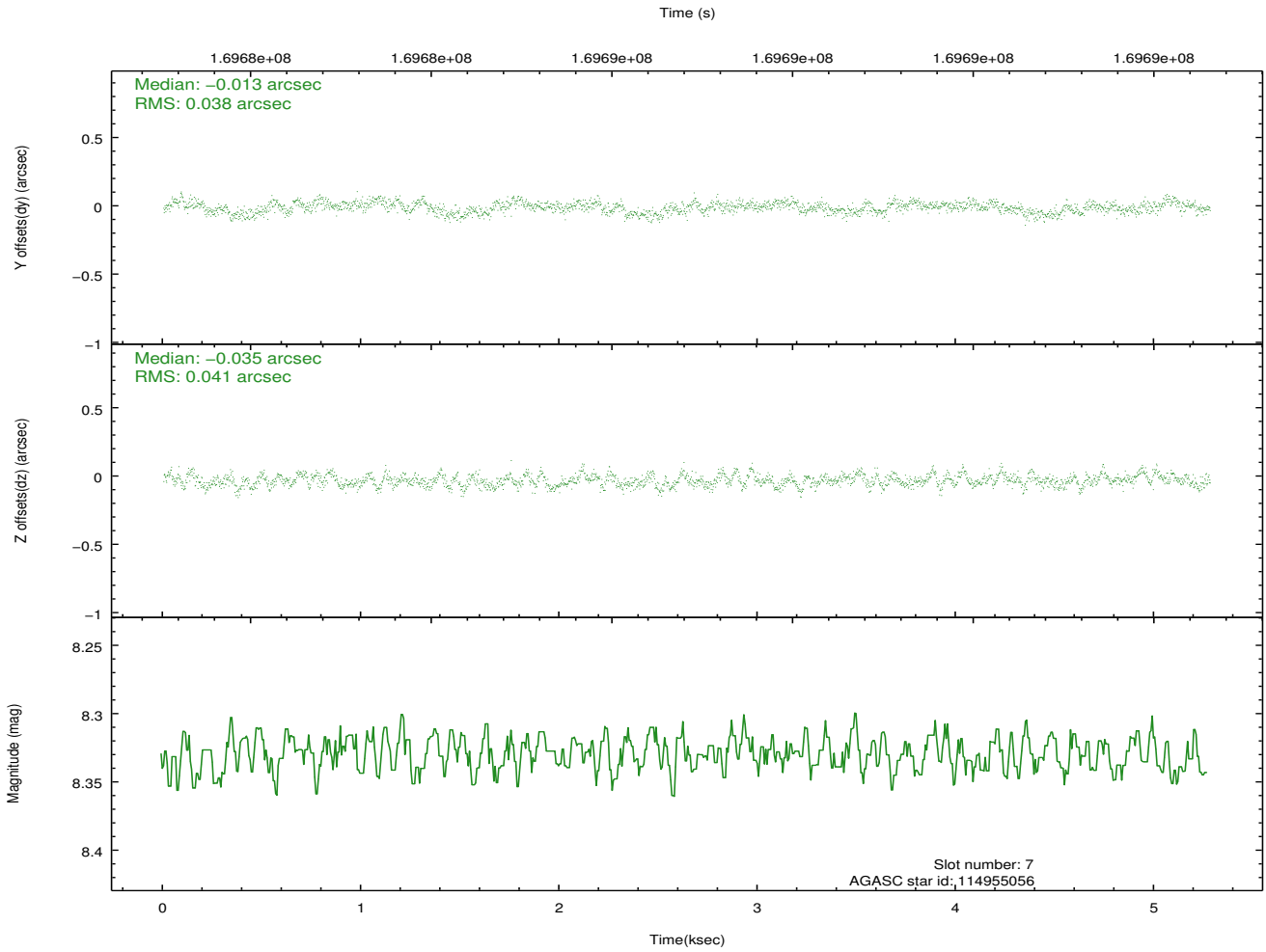
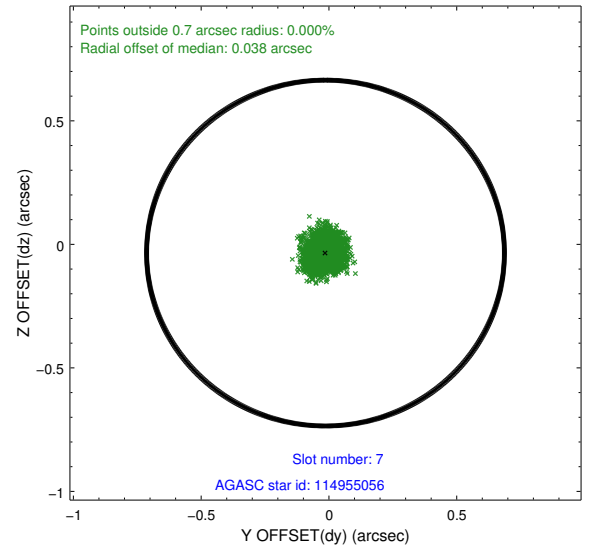
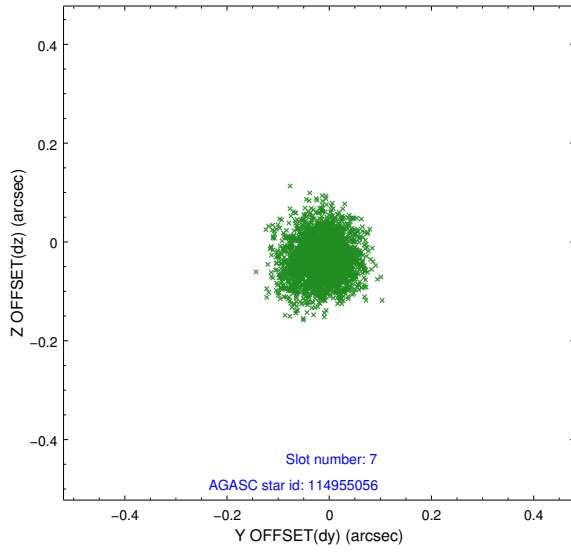
2.4.3 Slot 5



2.4.4 Slot 6

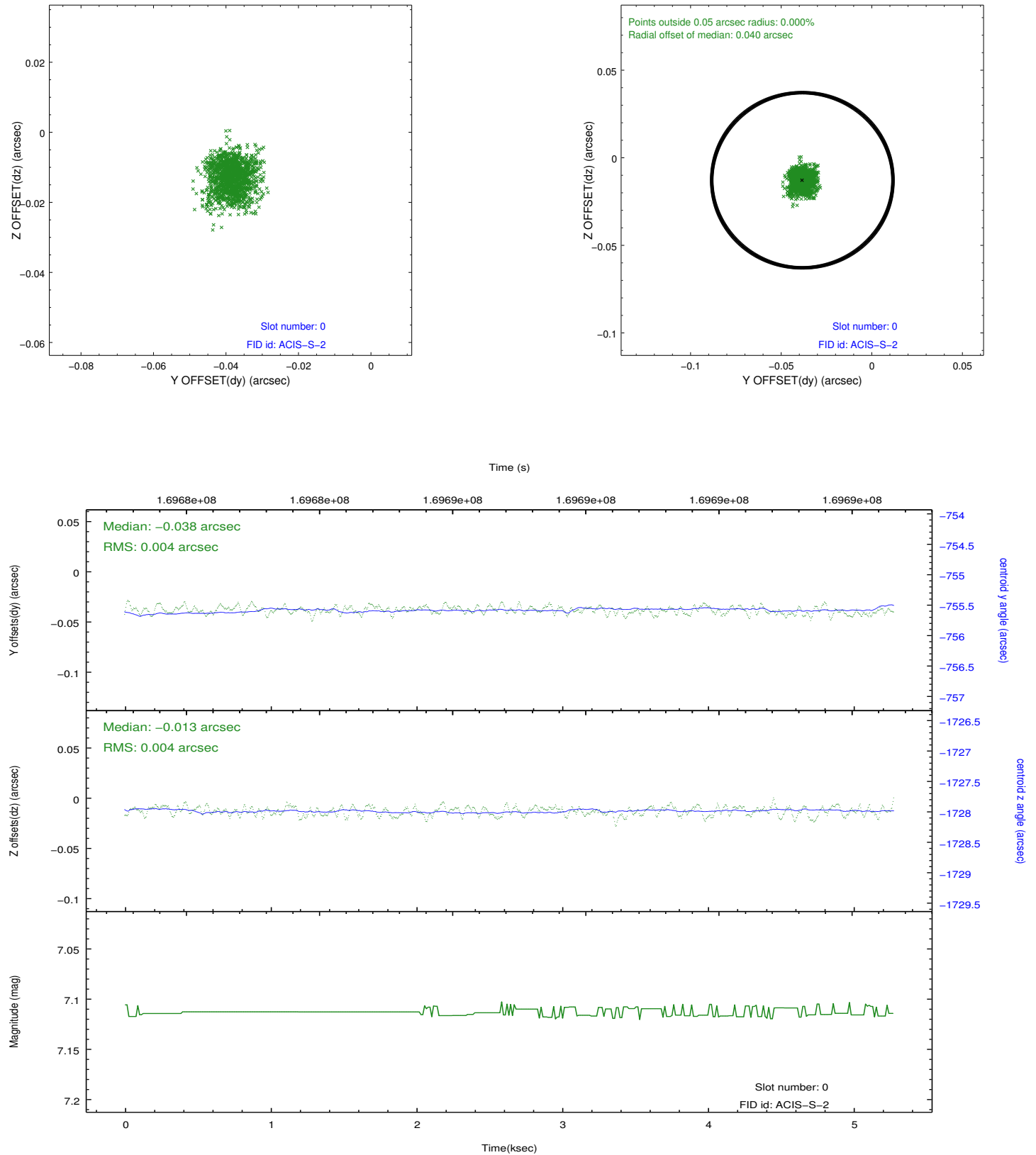


2.4.5 Slot 7

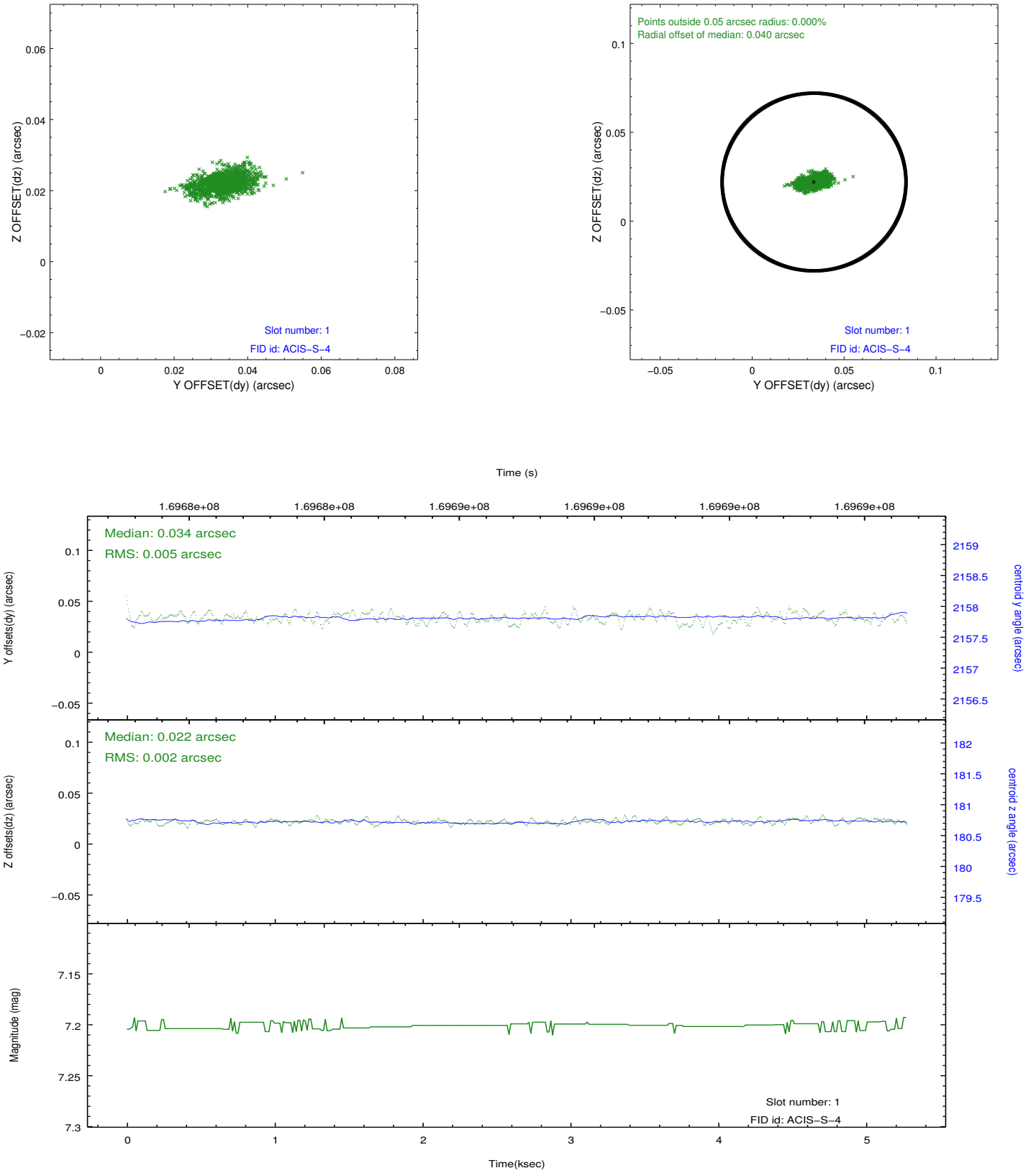


2.5 FID Slots

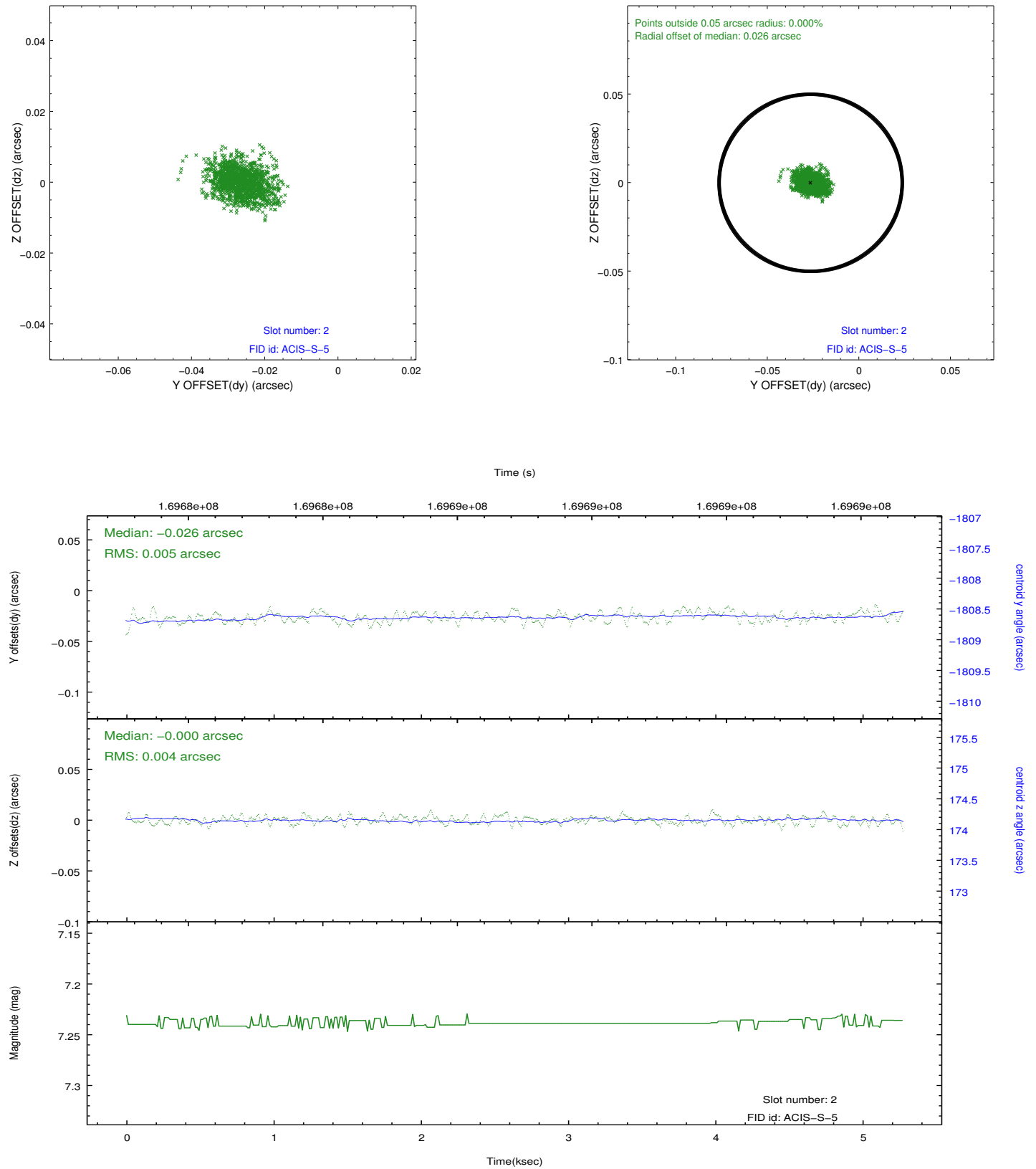
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.28

A.2 Comments

Monitor constraint met.