

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3522 - L2 Version 3
Chandra X-Ray Center

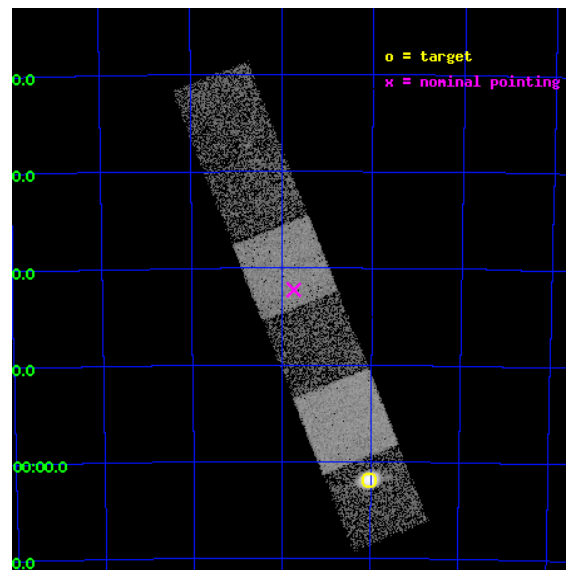
L2 Processing Date : Oct 22 2012

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1 Front

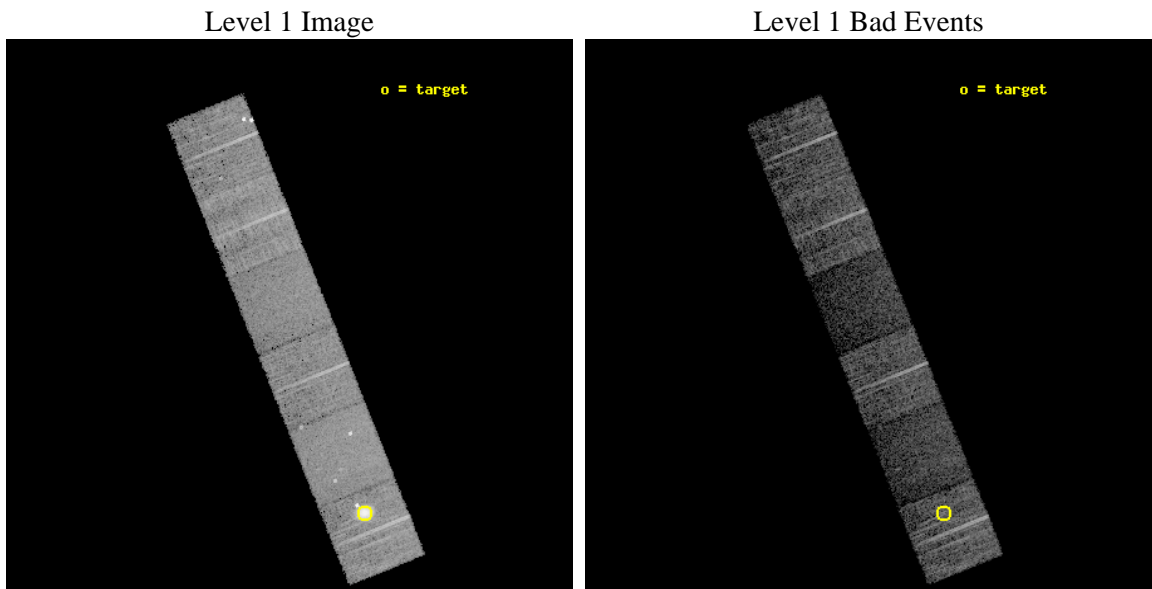
seq_num	590277	Sequence number
obs_id	3522	Observation id
title	AO4A ACIS-S CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S0,-120,21.44,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.433865553677	Nominal RA [deg]
dec_nom	-71.704231236627	Nominal Dec [deg]
roll_nom	248.17092655631	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7932.799970448	Sum of GTIs [s]
livetime	7832.3500806635	Livetime [s]
ontime4	7932.799970448	Sum of GTIs [s]
ontime5	7932.799970448	Sum of GTIs [s]
ontime6	7932.799970448	Sum of GTIs [s]
ontime7	7932.799970448	Sum of GTIs [s]
ontime8	7932.799970448	Sum of GTIs [s]
ontime9	7932.799970448	Sum of GTIs [s]
l2events	71924	Number of level 2 events



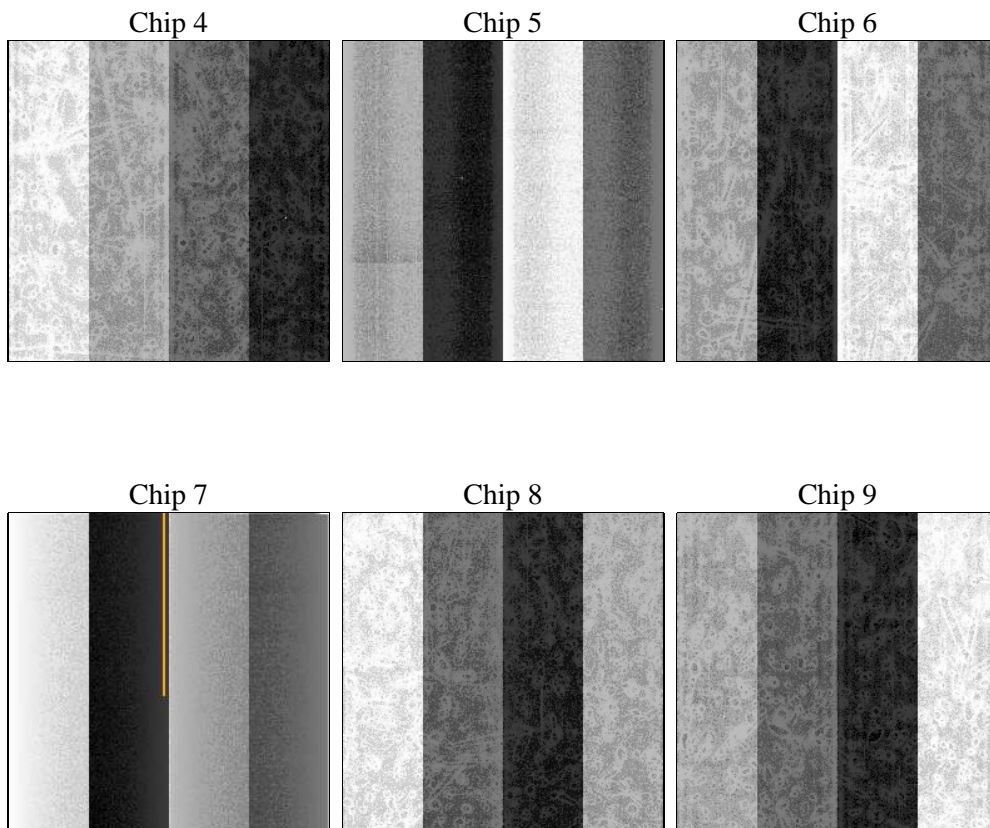
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7973.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7932.799970448	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	7932.799970448	Sum of GTIs [s]
date	2012-10-22T04:01:51	Date and time of file creation	ontime5	7932.799970448	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7932.799970448	Sum of GTIs [s]
			ontime7	7932.799970448	Sum of GTIs [s]
			ontime8	7932.799970448	Sum of GTIs [s]
			ontime9	7932.799970448	Sum of GTIs [s]
			l1events	284260	Number of level 1 events

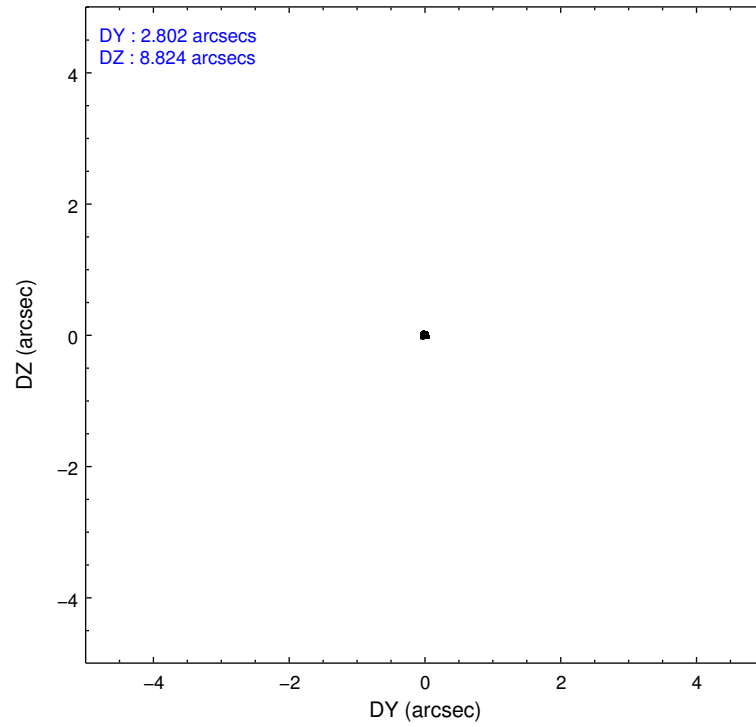
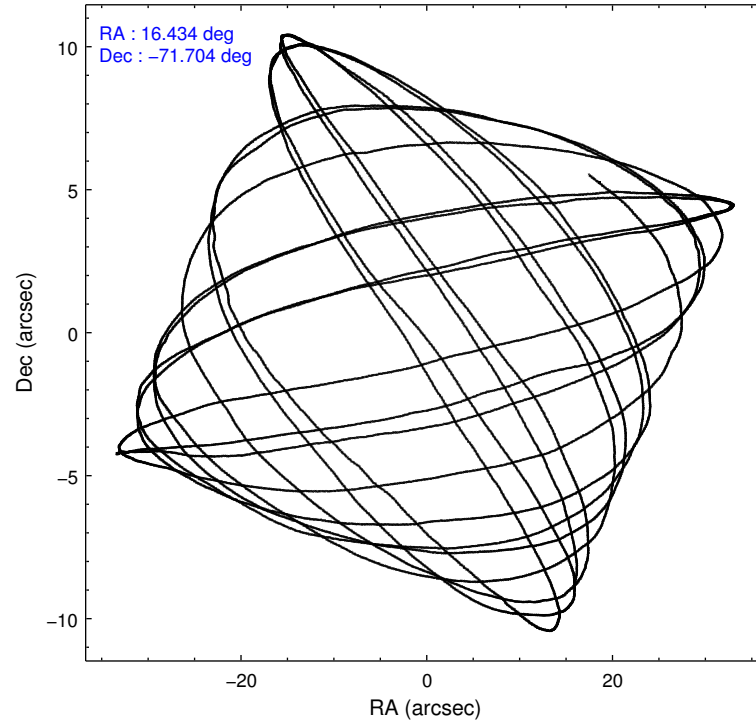
2.1.4 Events

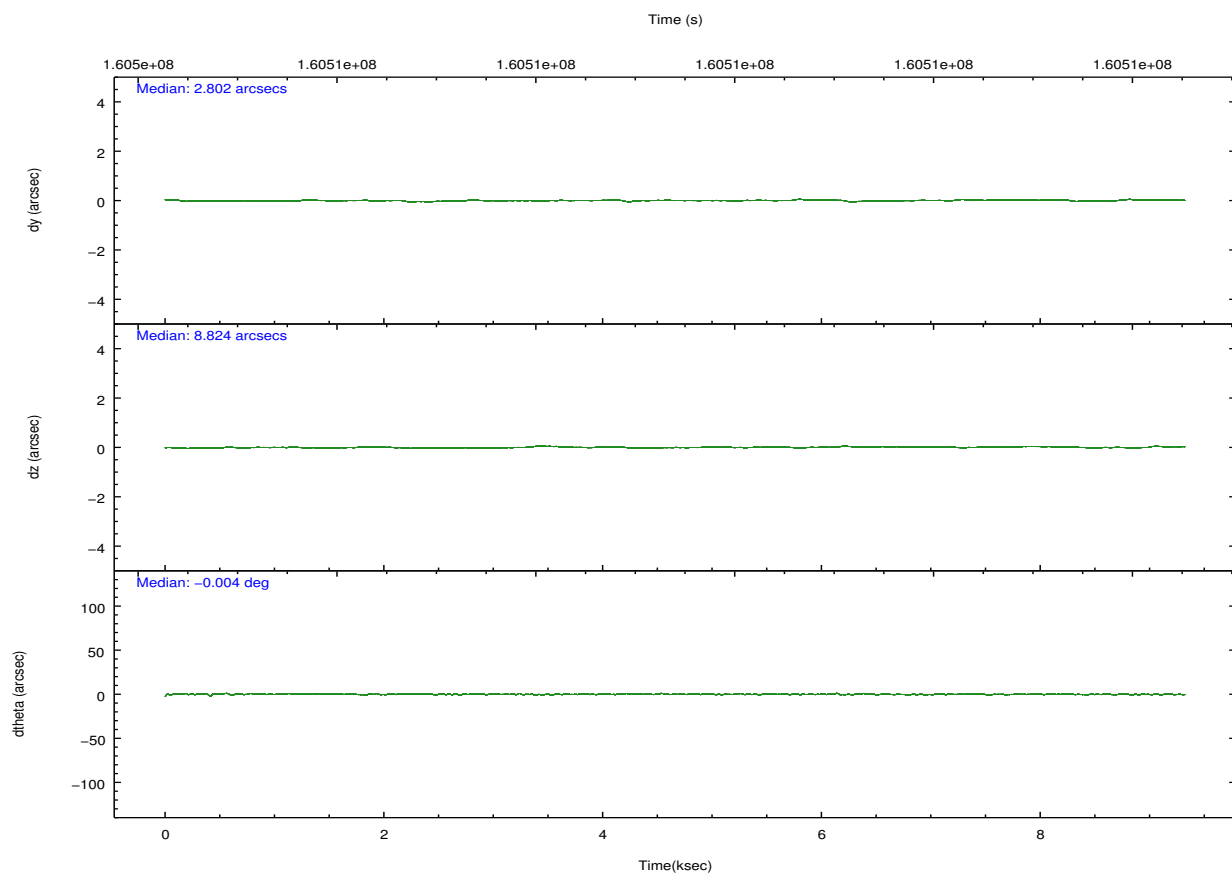
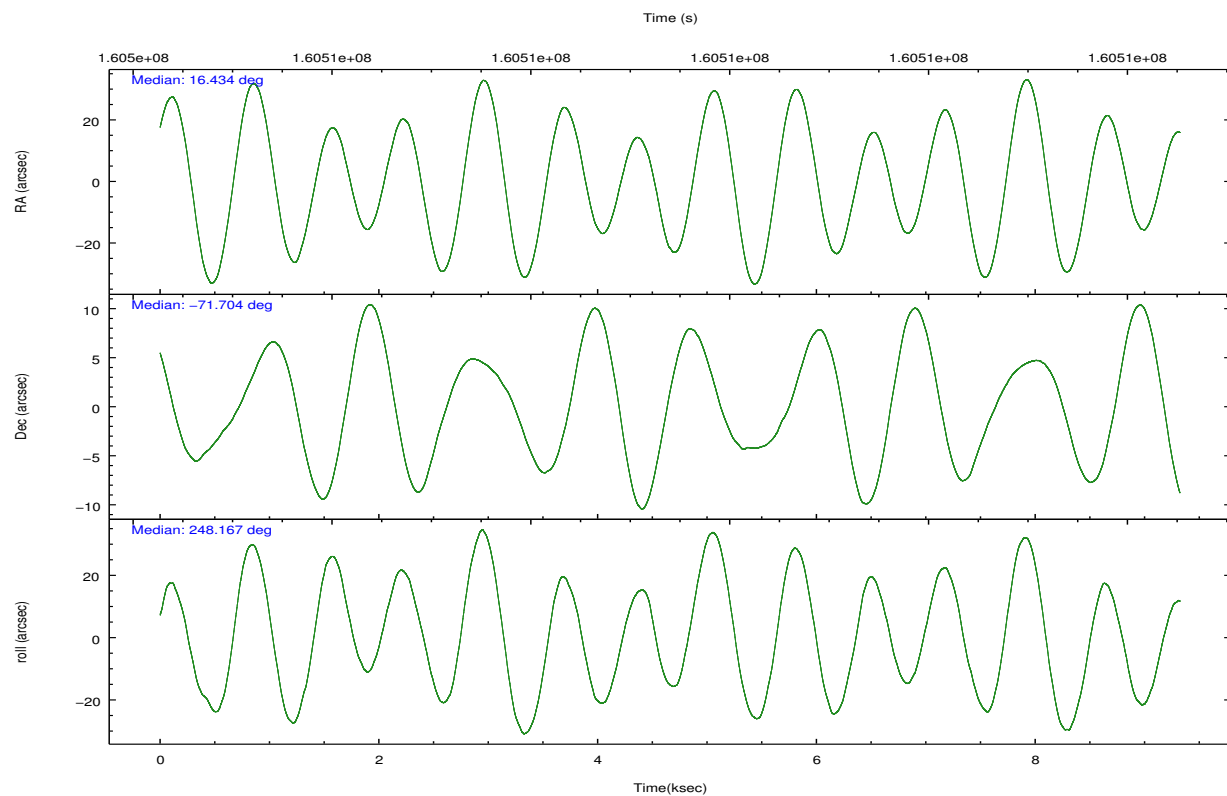
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	68364	48095	40225	36285	48909	42382	grade 0 events	21094	3859	1514	1855	3037	4044
rejected events	42984	22078	36148	18374	38188	33474		30%	8%	3%	5%	6%	9%
rejected %	62%	45%	89%	50%	78%	78%	grade 1 events	126	94	18	52	38	47
								0%	0%	0%	0%	0%	0%
							grade 2 events	2194	7236	843	3728	2504	3094
								3%	15%	2%	10%	5%	7%
							grade 3 events	686	1320	478	1774	1281	438
								1%	2%	1%	4%	2%	1%
							grade 4 events	710	1318	463	1771	1164	457
								1%	2%	1%	4%	2%	1%
							grade 5 events	1302	4051	1286	3934	1896	1387
								1%	8%	3%	10%	3%	3%
							grade 6 events	709	12292	779	8791	2736	878
								1%	25%	1%	24%	5%	2%
							grade 7 events	41543	17925	34844	14380	36253	32037
								60%	37%	86%	39%	74%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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
[deg] Pointing RA	16.420303	16.43386555367662	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.677336	-71.70423123662709	Alternating exposures requested	N	N
[deg] Pointing Roll	248.001430	248.1709265563129	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	159019264.184000	159019264.184000			
[s] Window stop time (MET)	161697664.184000	161697664.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	160506086.184000	160504540.66941			
Observation start date	2003-02-01T17:00:22	2003-02-01T16:35:40			
[s] Observation end time (MET)	160514059.184000	160514193.09481			
Observation end date	2003-02-01T19:13:15	2003-02-01T19:16:33			
Read mode	TIMED	TIMED			

2.3 Aspect



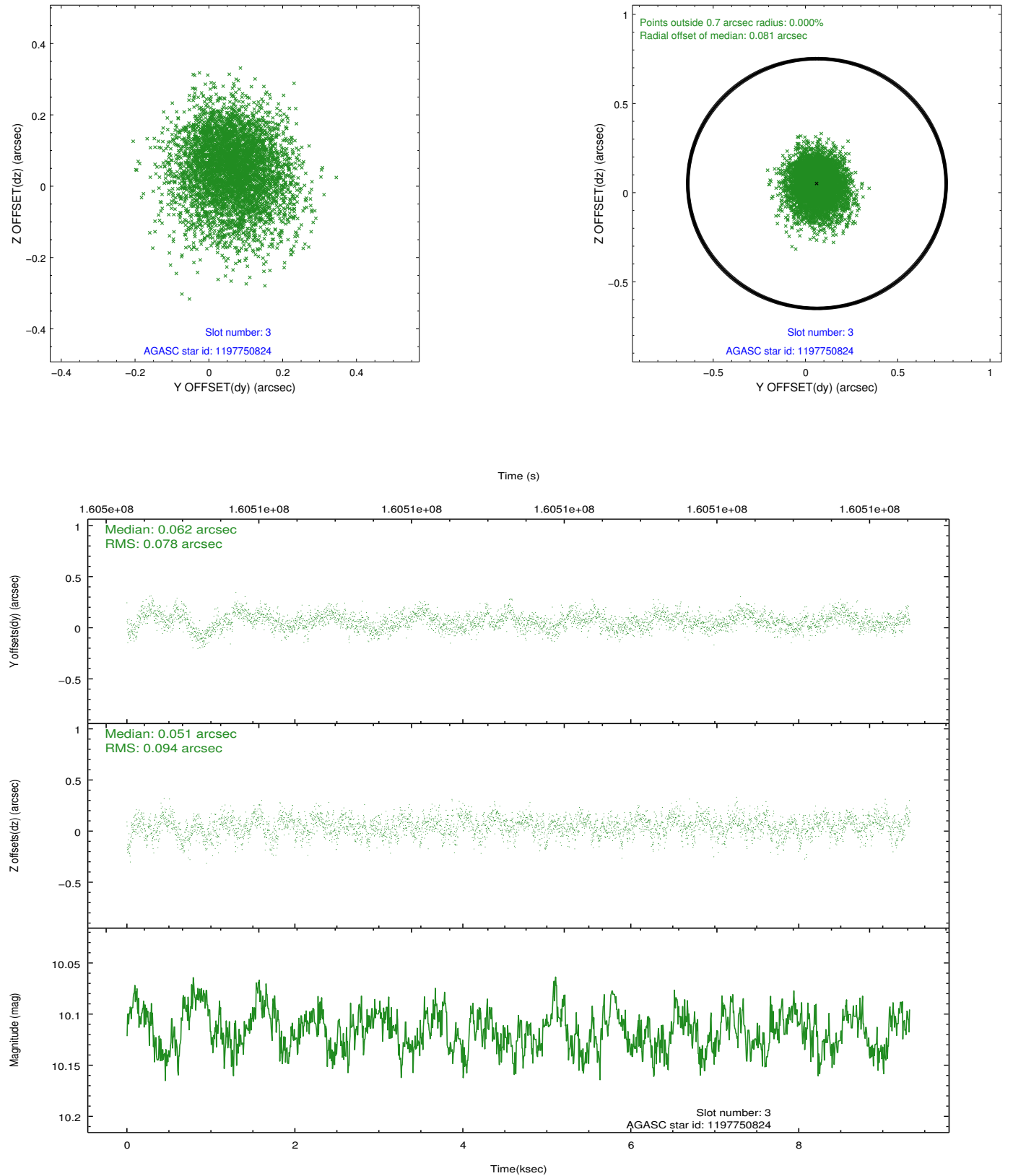


Slot Statistics

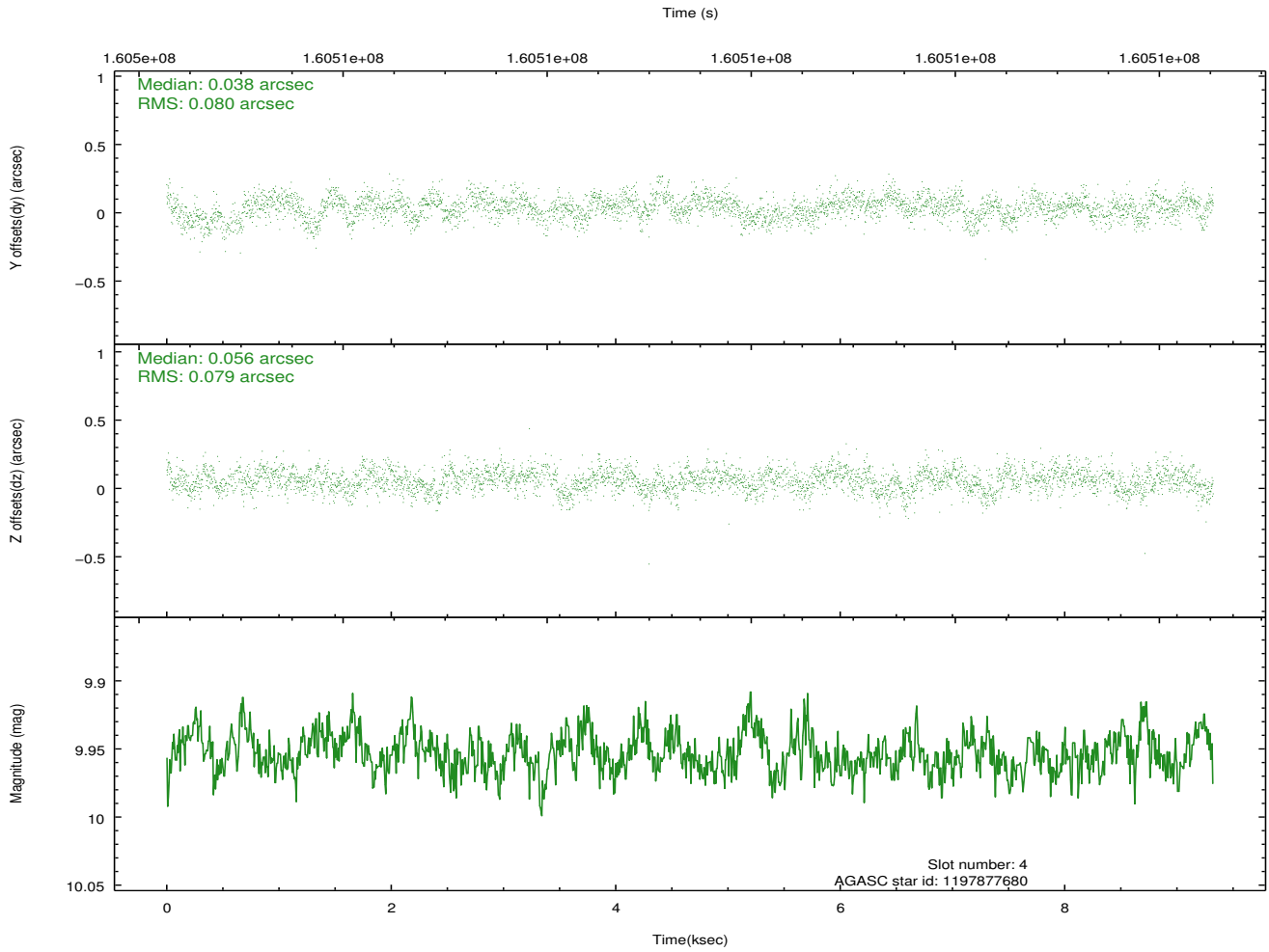
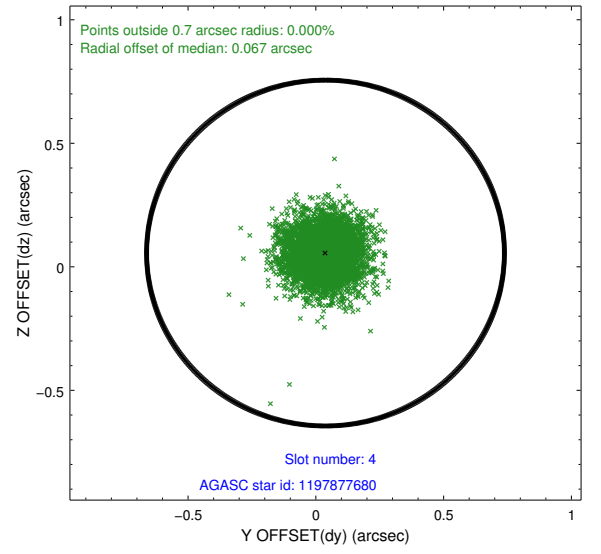
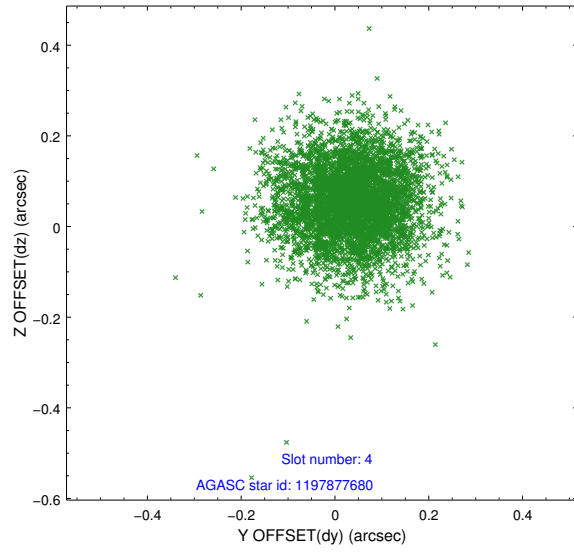
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2273	-0.021	-0.010	0.006	0.011	0.000000	0.000000	-755.45	-1730.00
1	FID	ACIS-S-4	7.20	2274	-0.006	0.013	0.005	0.009	0.000000	0.000000	2157.57	177.92
2	FID	ACIS-S-5	7.24	2275	-0.004	0.006	0.006	0.011	0.000000	0.000000	-1807.54	172.23
3	GUIDE	1197750824	10.12	4546	0.062	0.051	0.130	0.214	14.791487	-71.393477	-222.82	-2107.50
4	GUIDE	1197877680	9.95	4405	0.038	0.056	0.118	0.196	16.468092	-71.021668	-2208.93	-832.73
5	GUIDE	1197884712	8.31	4548	-0.067	-0.068	0.069	0.110	16.087398	-72.252690	2058.05	437.73
6	GUIDE	1197885328	7.23	4549	0.036	0.049	0.075	0.146	16.283090	-71.733943	247.71	-66.45
7	GUIDE	1197885104	9.36	4548	-0.074	-0.068	0.114	0.172	17.845067	-72.189368	1139.16	2152.21

2.4 Star Slots

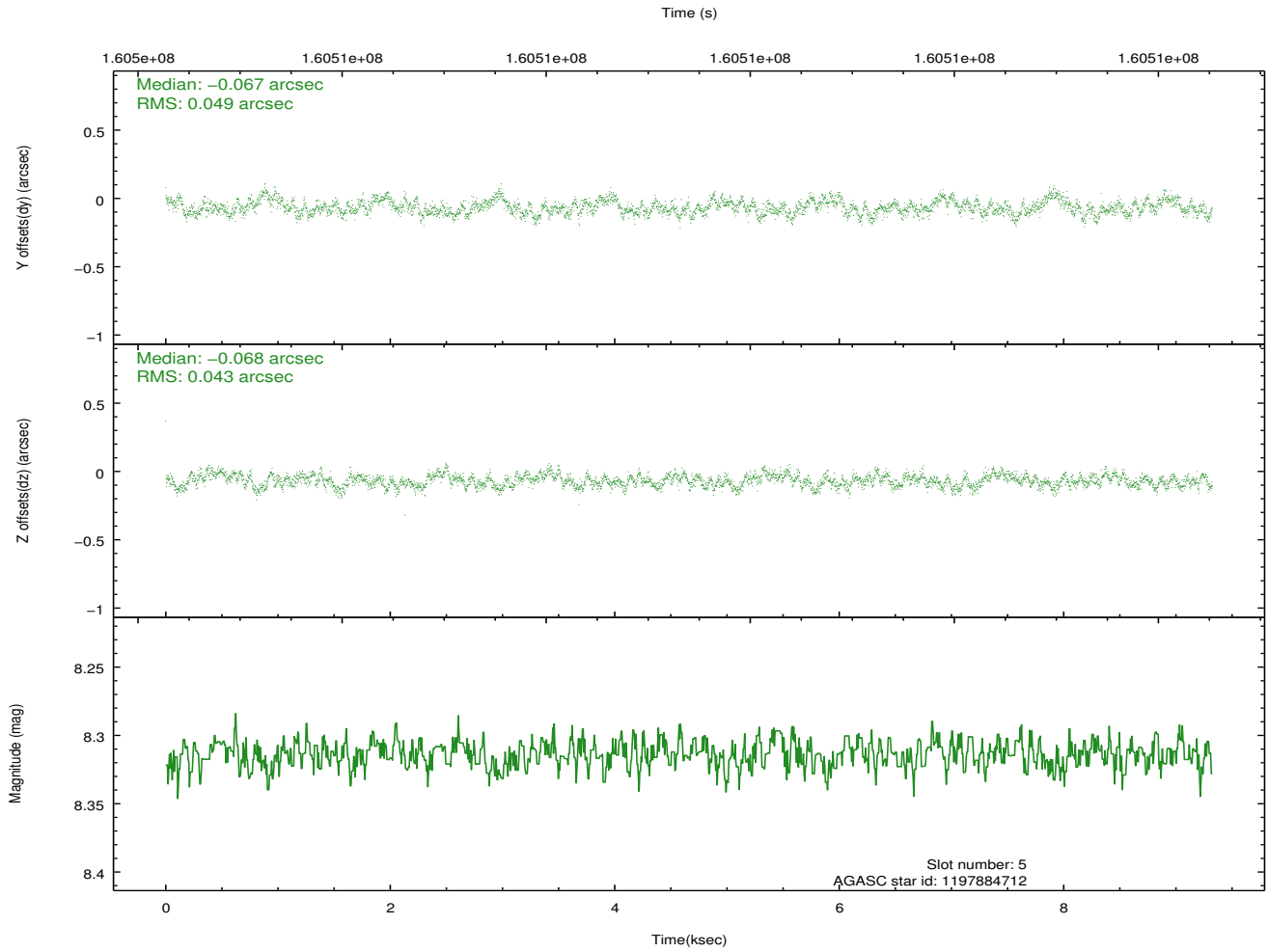
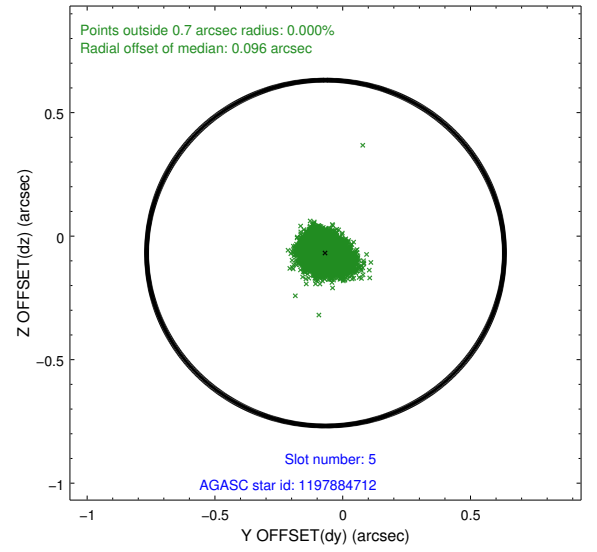
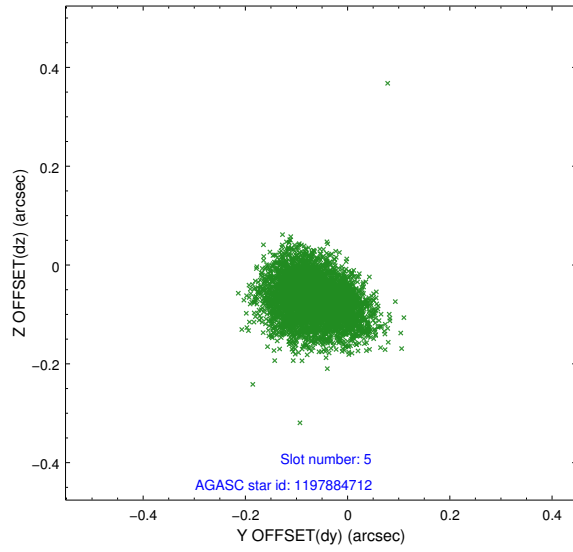
2.4.1 Slot 3



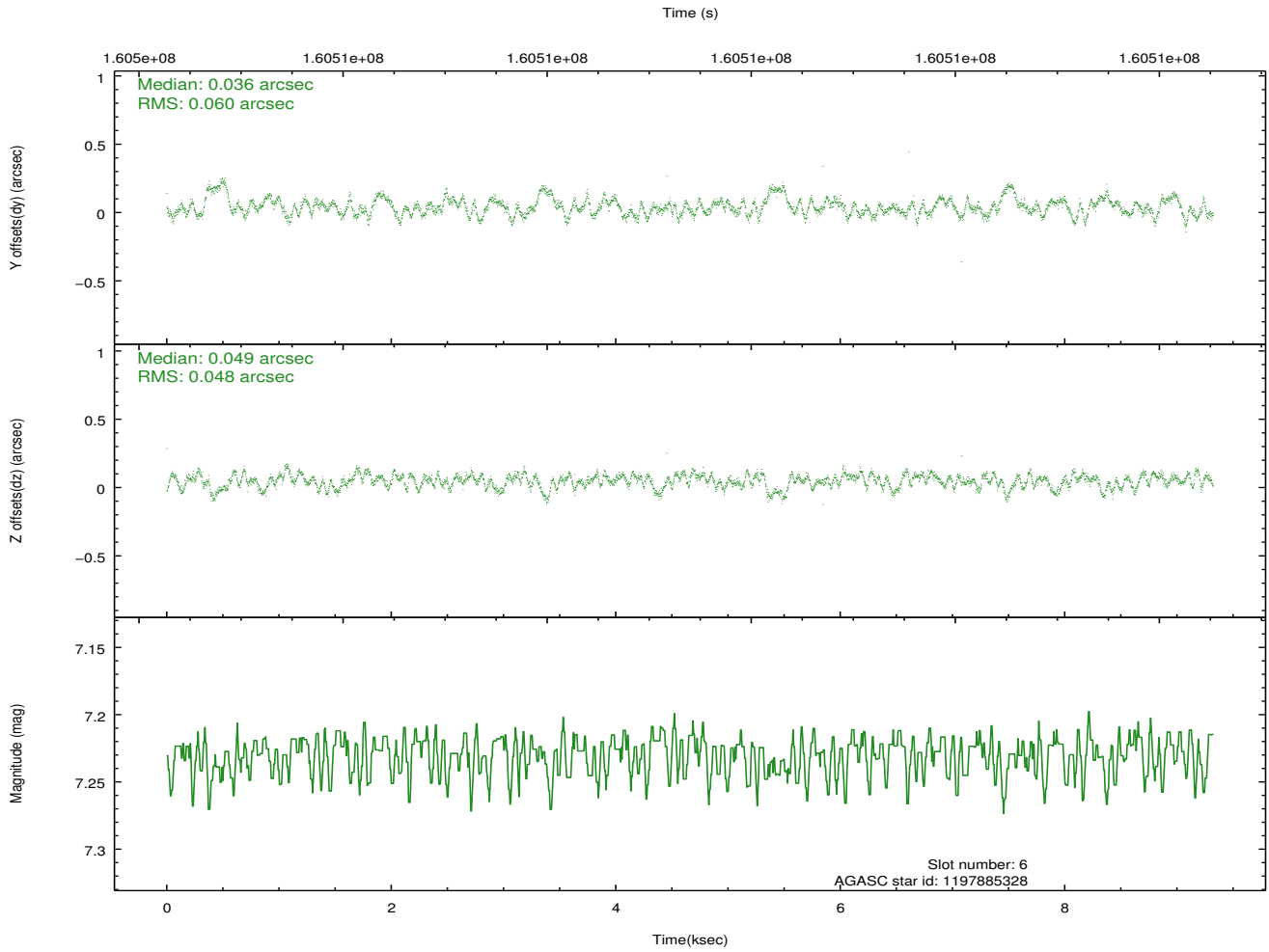
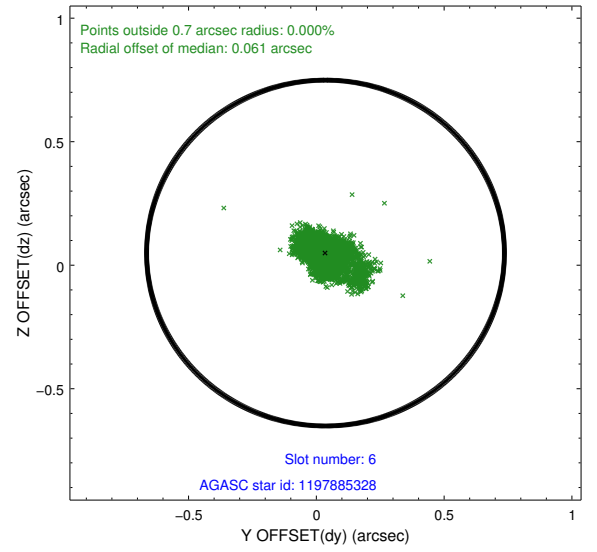
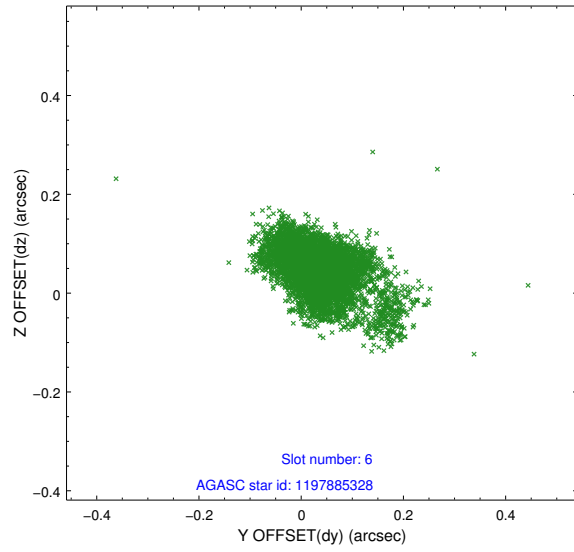
2.4.2 Slot 4



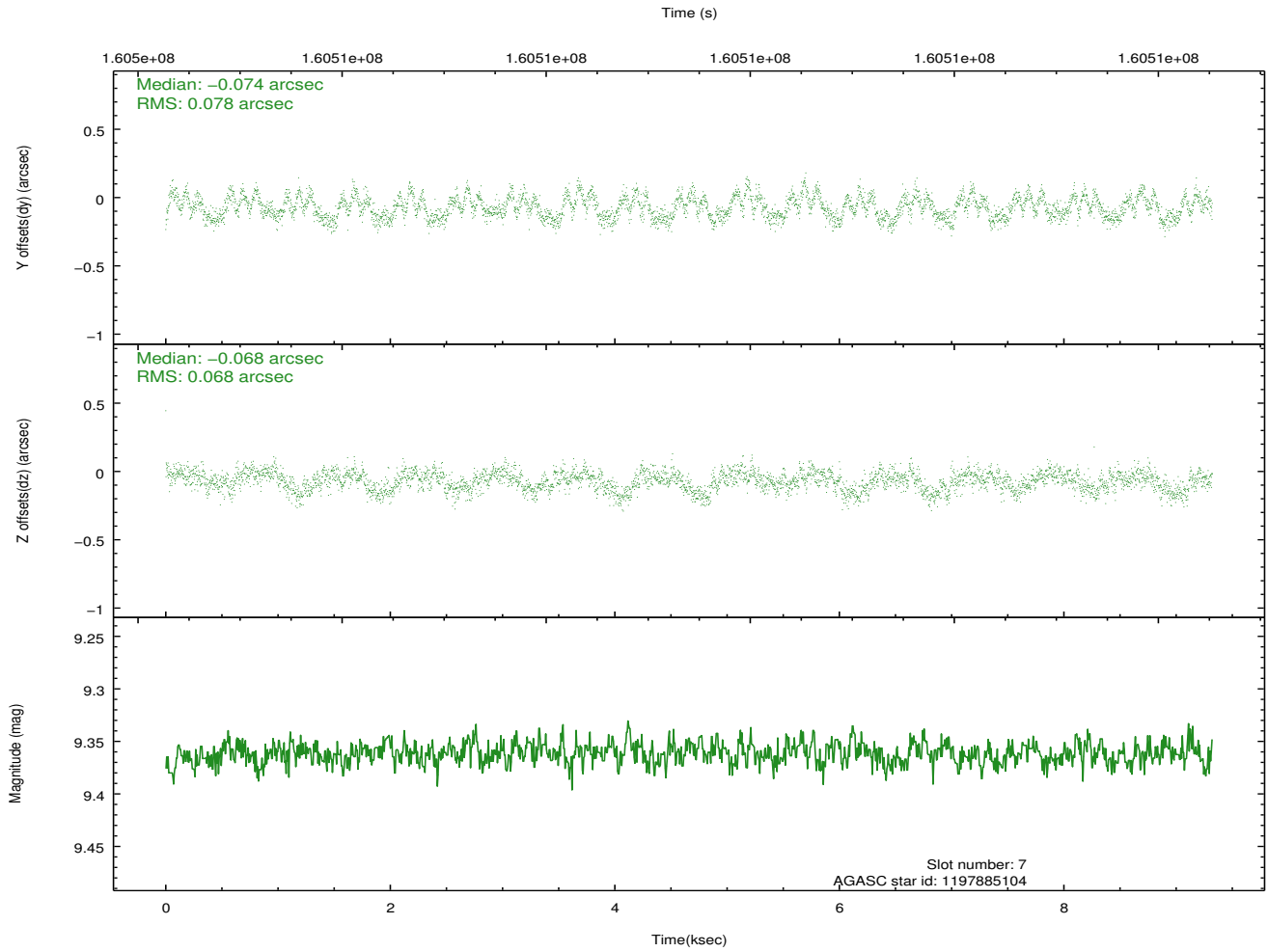
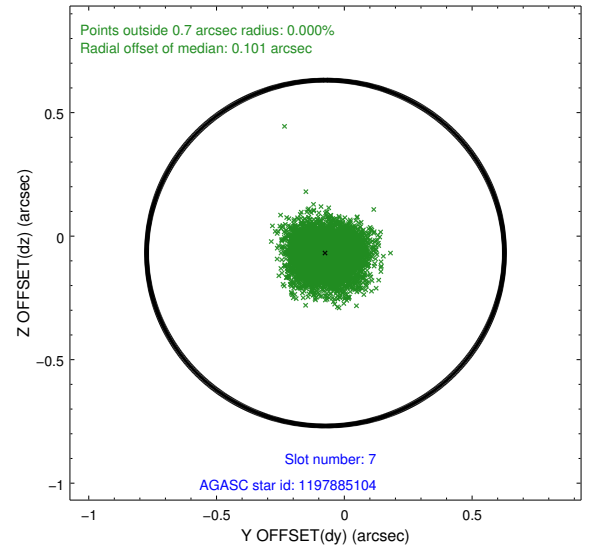
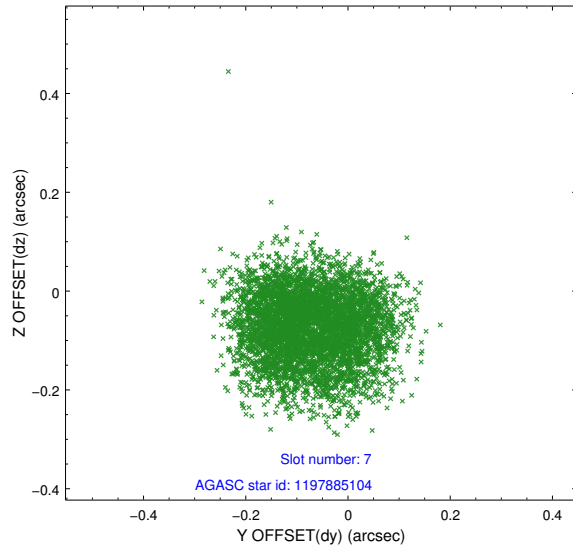
2.4.3 Slot 5



2.4.4 Slot 6

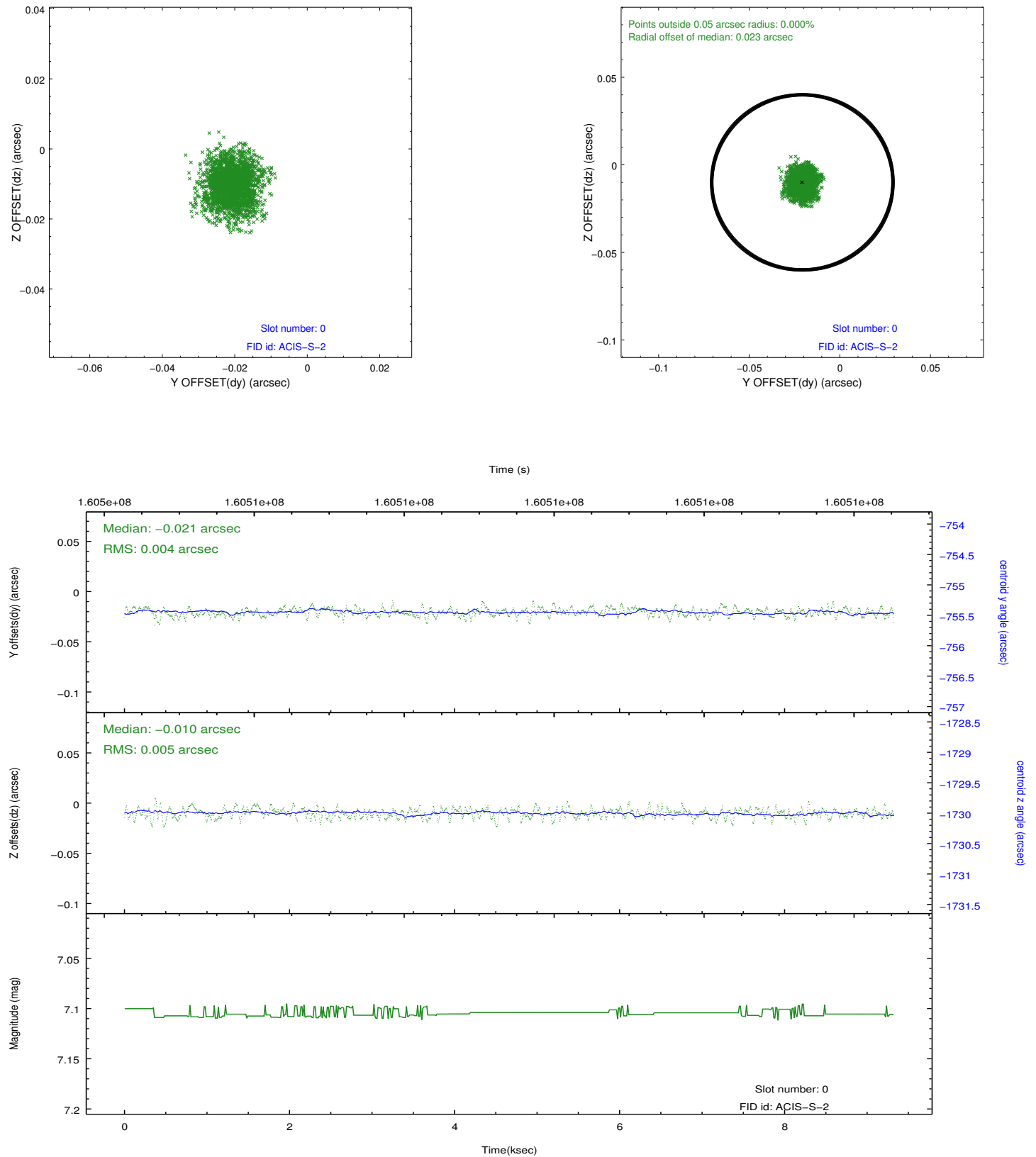


2.4.5 Slot 7

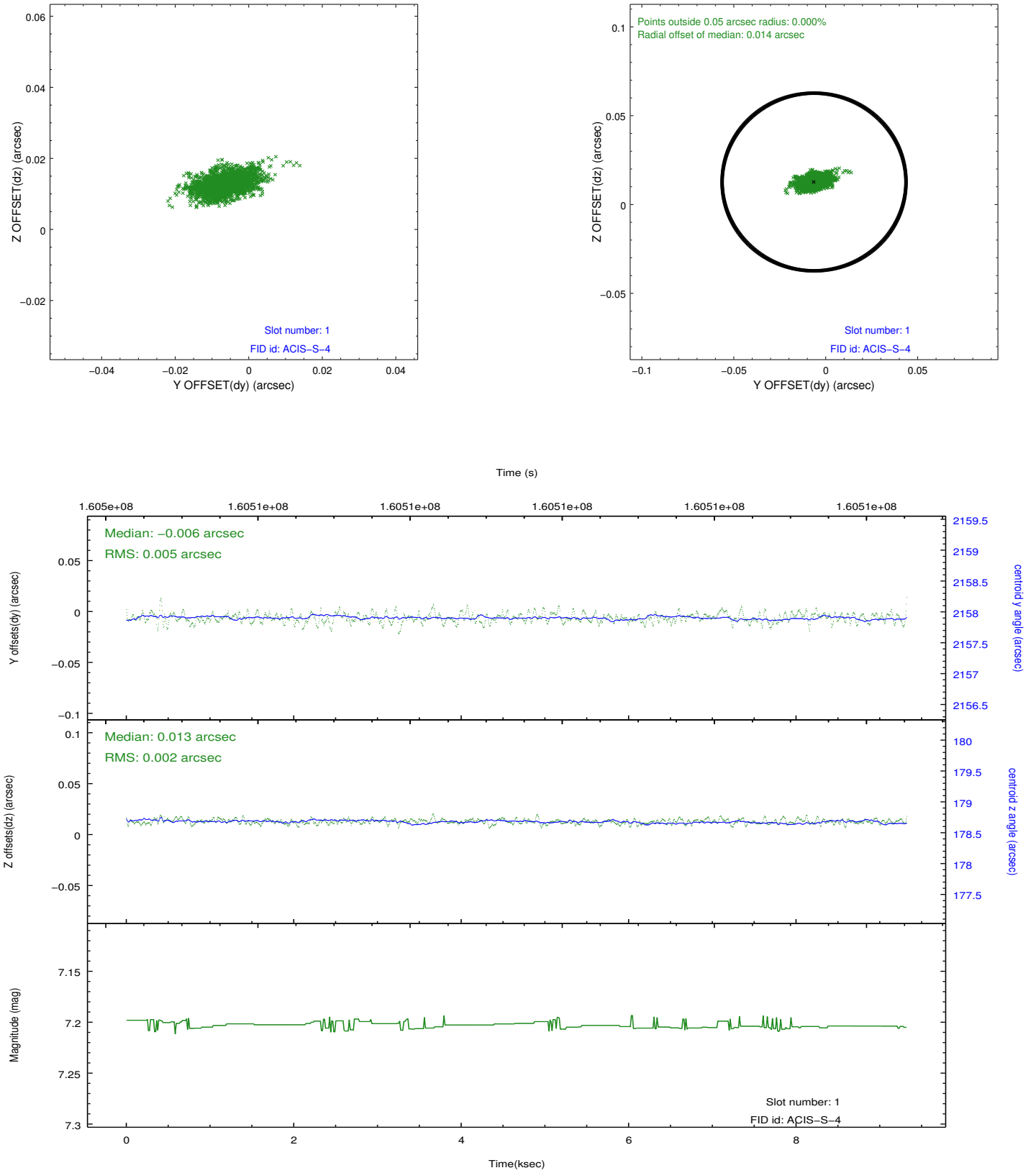


2.5 FID Slots

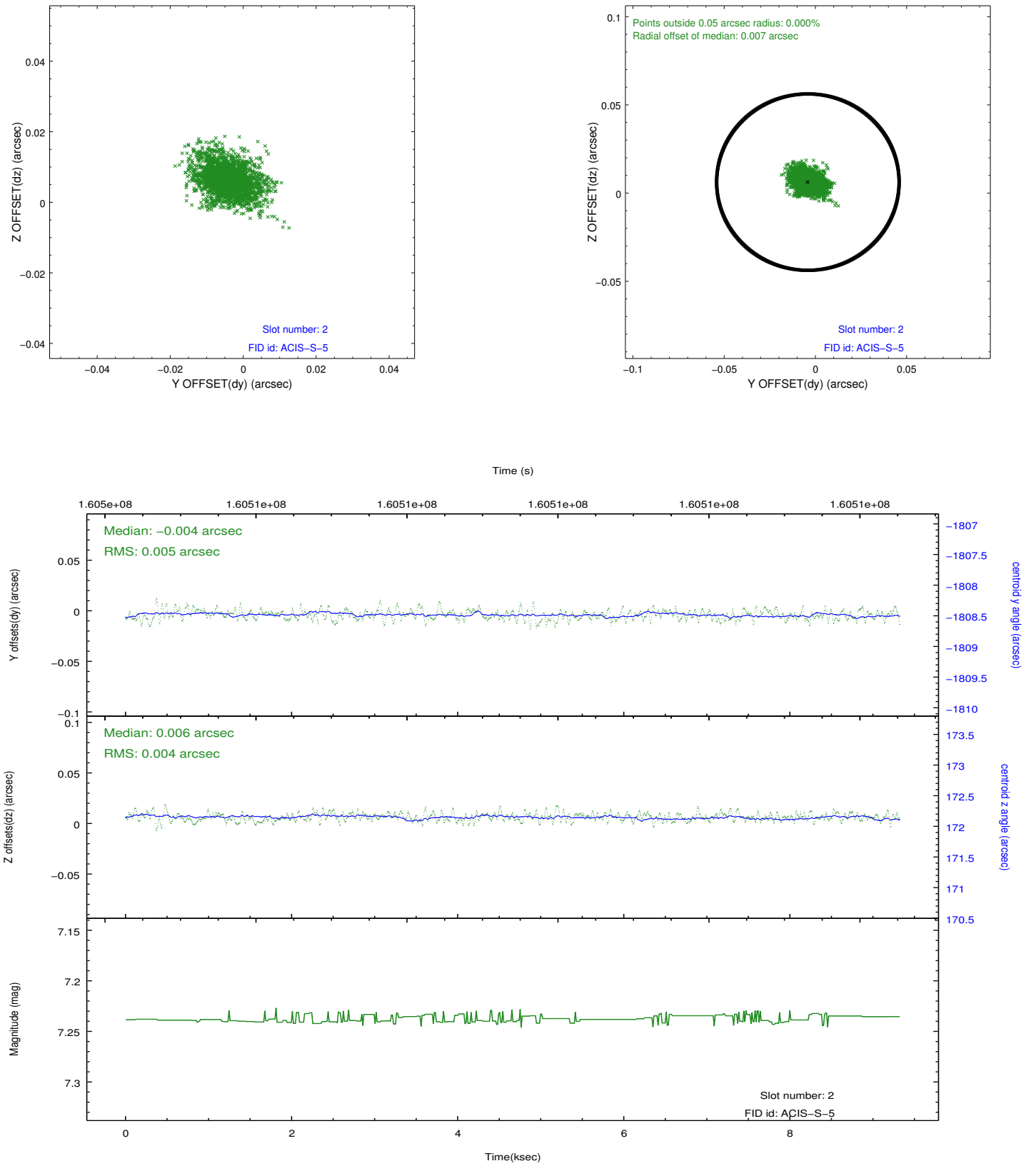
2.5.1 Slot 0



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)	2012.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.935

A.2 Comments

Window constraint met.