

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1585 - L2 Version 3
Chandra X-Ray Center

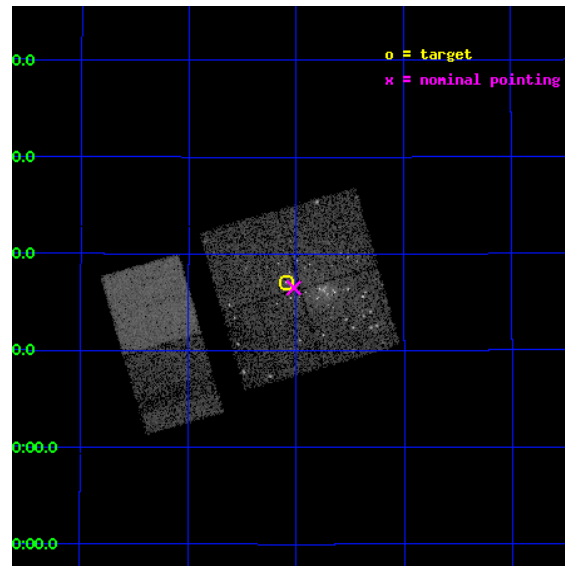
L2 Processing Date : Sep 28 2012

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1 Front

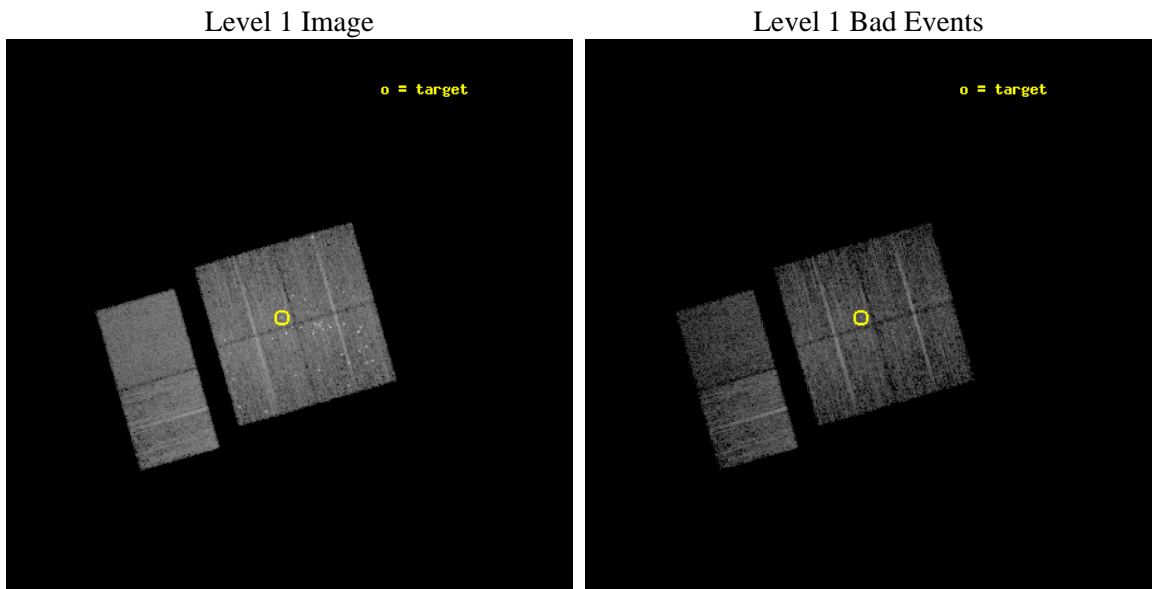
seq_num	600142	Sequence number
obs_id	1585	Observation id
title	MONITORING THE M31 NUCLEAR REGION	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31 NUCLEUS	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.773125	Observer's specified target RA [deg]
dec_targ	41.28425	Observer's specified target Dec [deg]
ra_nom	10.755534781342	Nominal RA [deg]
dec_nom	41.274973921231	Nominal Dec [deg]
roll_nom	253.99822010957	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4945.6669888049	Sum of GTIs [s]
livetime	4883.0419754696	Livetime [s]
ontime0	4945.5438688099	Sum of GTIs [s]
ontime1	4945.5849088132	Sum of GTIs [s]
ontime2	4945.6259488165	Sum of GTIs [s]
ontime3	4945.6669888049	Sum of GTIs [s]
ontime6	4945.7490688115	Sum of GTIs [s]
ontime7	4945.7080288082	Sum of GTIs [s]
l2events	64396	Number of level 2 events



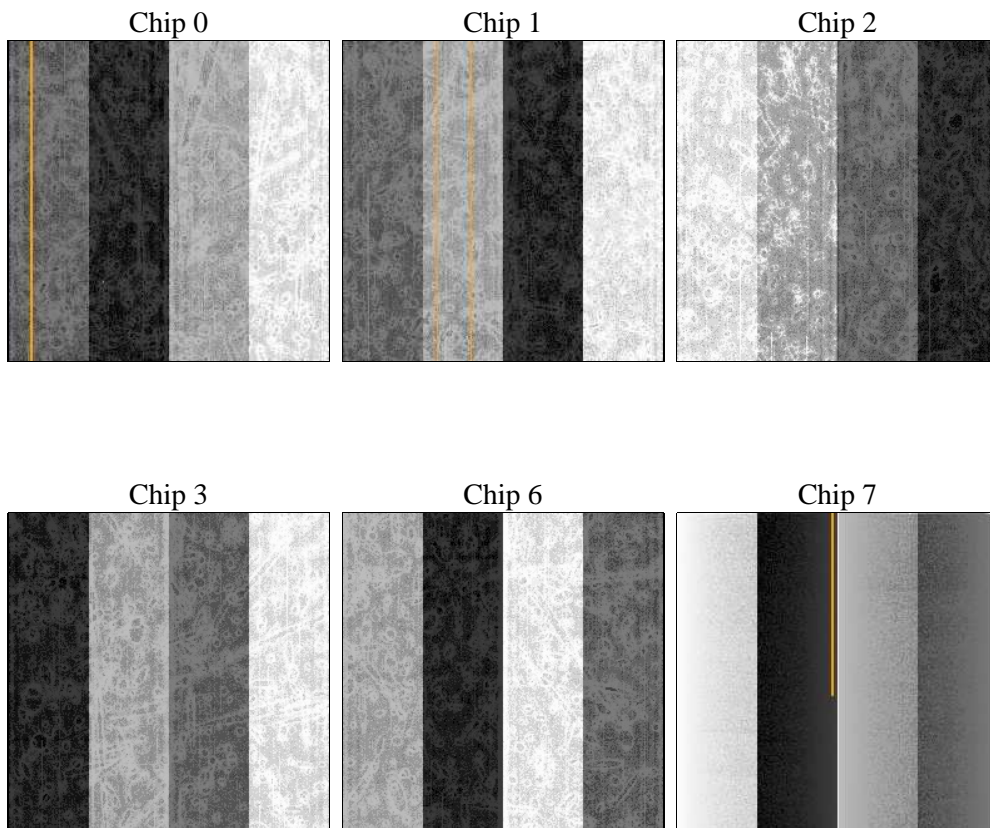
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4945.6669888049	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	4945.5438688099	Sum of GTIs [s]
date	2012-09-28T03:52:51	Date and time of file creation	ontime1	4945.5849088132	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4945.6259488165	Sum of GTIs [s]
			ontime3	4945.6669888049	Sum of GTIs [s]
			ontime6	4945.7490688115	Sum of GTIs [s]
			ontime7	4945.7080288082	Sum of GTIs [s]
			l1events	296666	Number of level 1 events

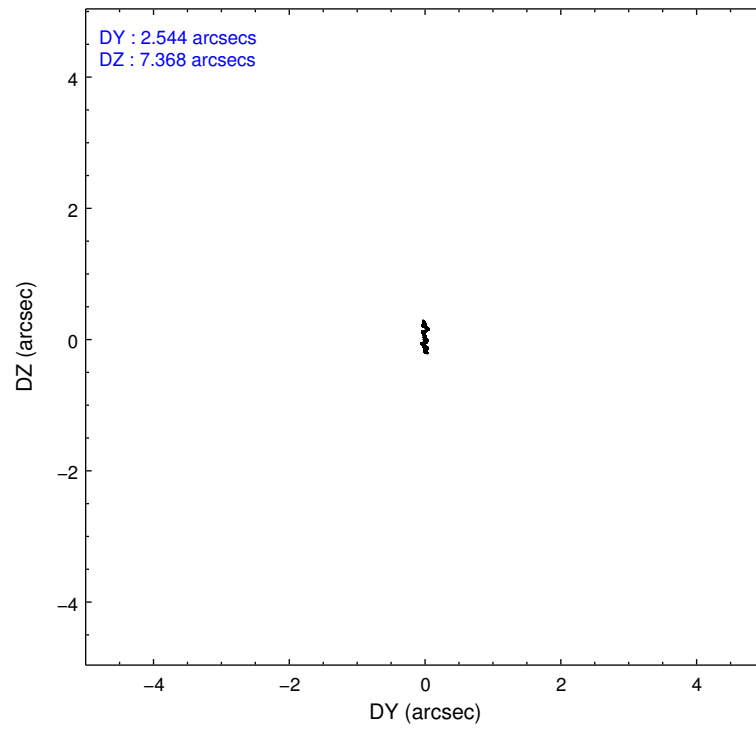
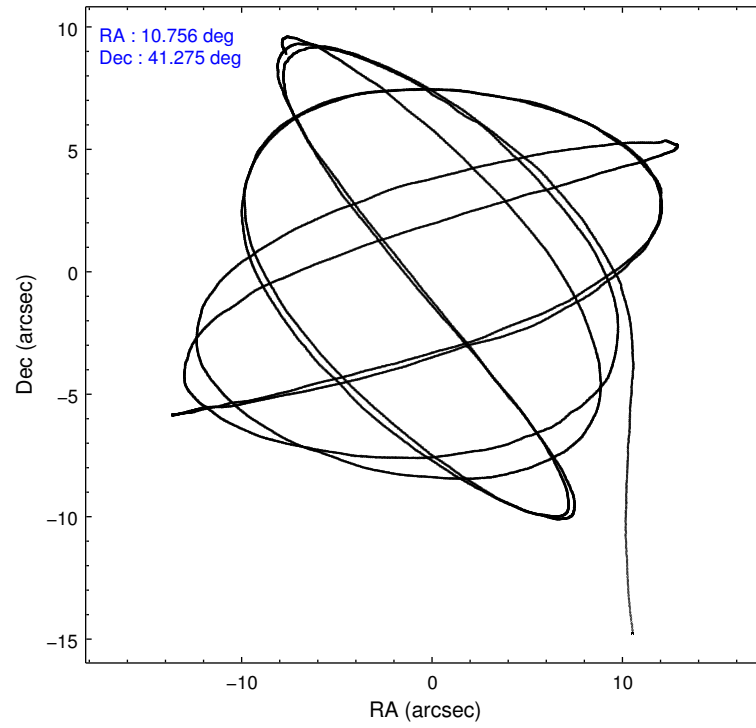
2.1.4 Events

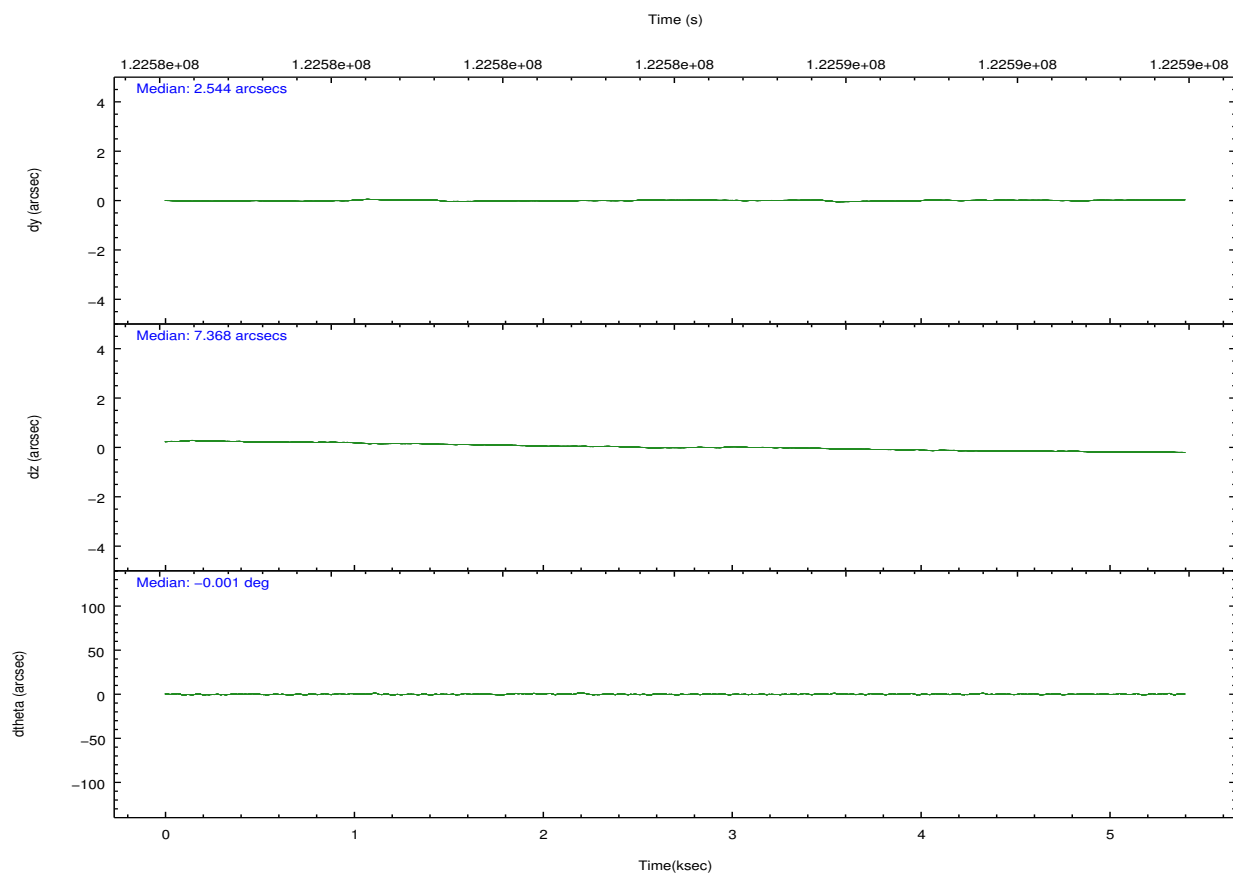
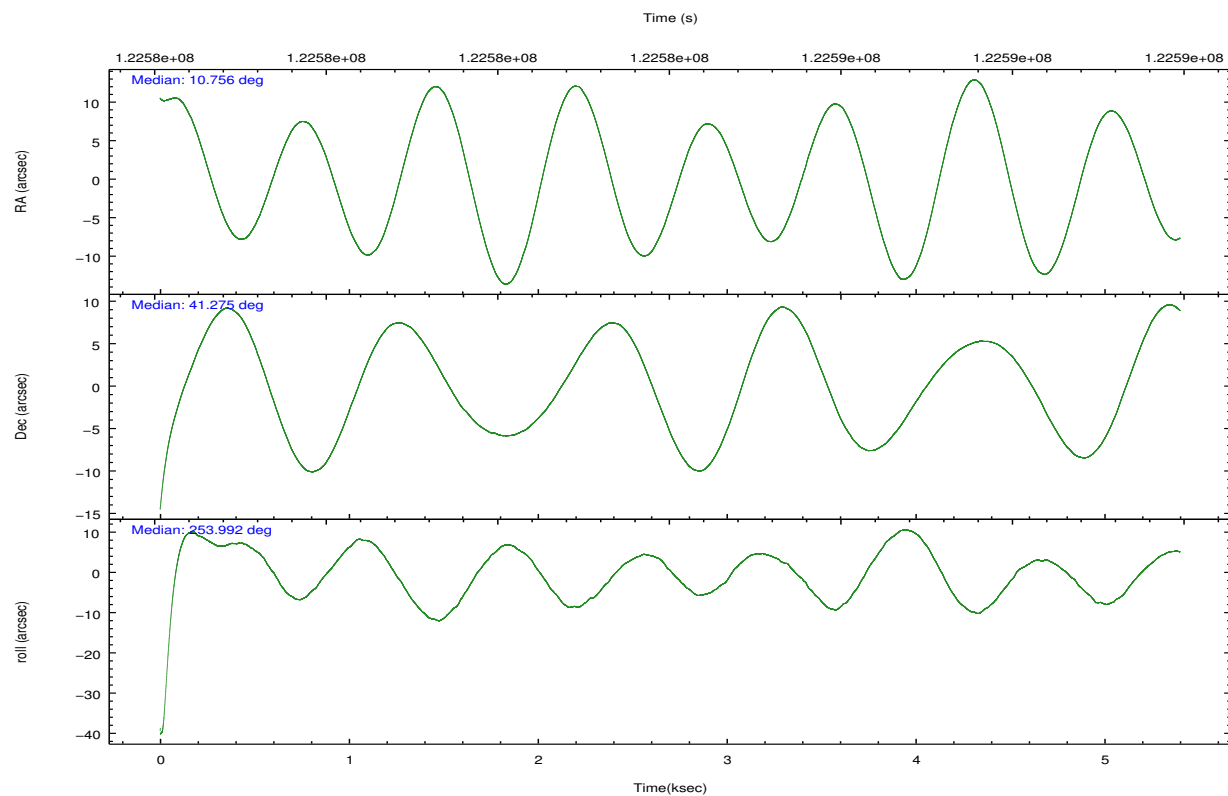
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	52379	42735	53741	50674	50336	46801	grade 0 events	11408	4545	5478	4307	2940	2055
rejected events	34479	33527	43146	41763	43057	26400		21%	10%	10%	8%	5%	4%
rejected %	65%	78%	80%	82%	85%	56%	grade 1 events	219	52	57	108	31	70
								0%	0%	0%	0%	0%	0%
							grade 2 events	3389	2123	2518	2070	2131	4258
								6%	4%	4%	4%	4%	9%
							grade 3 events	723	524	504	481	435	1874
								1%	1%	0%	0%	0%	4%
							grade 4 events	805	494	657	522	421	1899
								1%	1%	1%	1%	0%	4%
							grade 5 events	1365	1246	1173	1313	1458	4290
								2%	2%	2%	2%	2%	9%
							grade 6 events	1591	1527	1443	1538	1360	10323
								3%	3%	2%	3%	2%	22%
							grade 7 events	32879	32224	41911	40335	41560	22032
								62%	75%	77%	79%	82%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	10.746538	10.75553478134151	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.301509	41.2749739212314	Alternating exposures requested	N	N
[deg] Pointing Roll	253.795582	253.9982201095662	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	121824064.184000	121824064.184000			
[s] Window stop time (MET)	123465664.184000	123465664.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	122582701.184000	122581615.25321			
Observation start date	2001-11-19T18:43:57	2001-11-19T18:26:55			
[s] Observation end time (MET)	122587701.184000	122587905.67846			
Observation end date	2001-11-19T20:07:17	2001-11-19T20:11:45			
Read mode	TIMED	TIMED			

2.3 Aspect



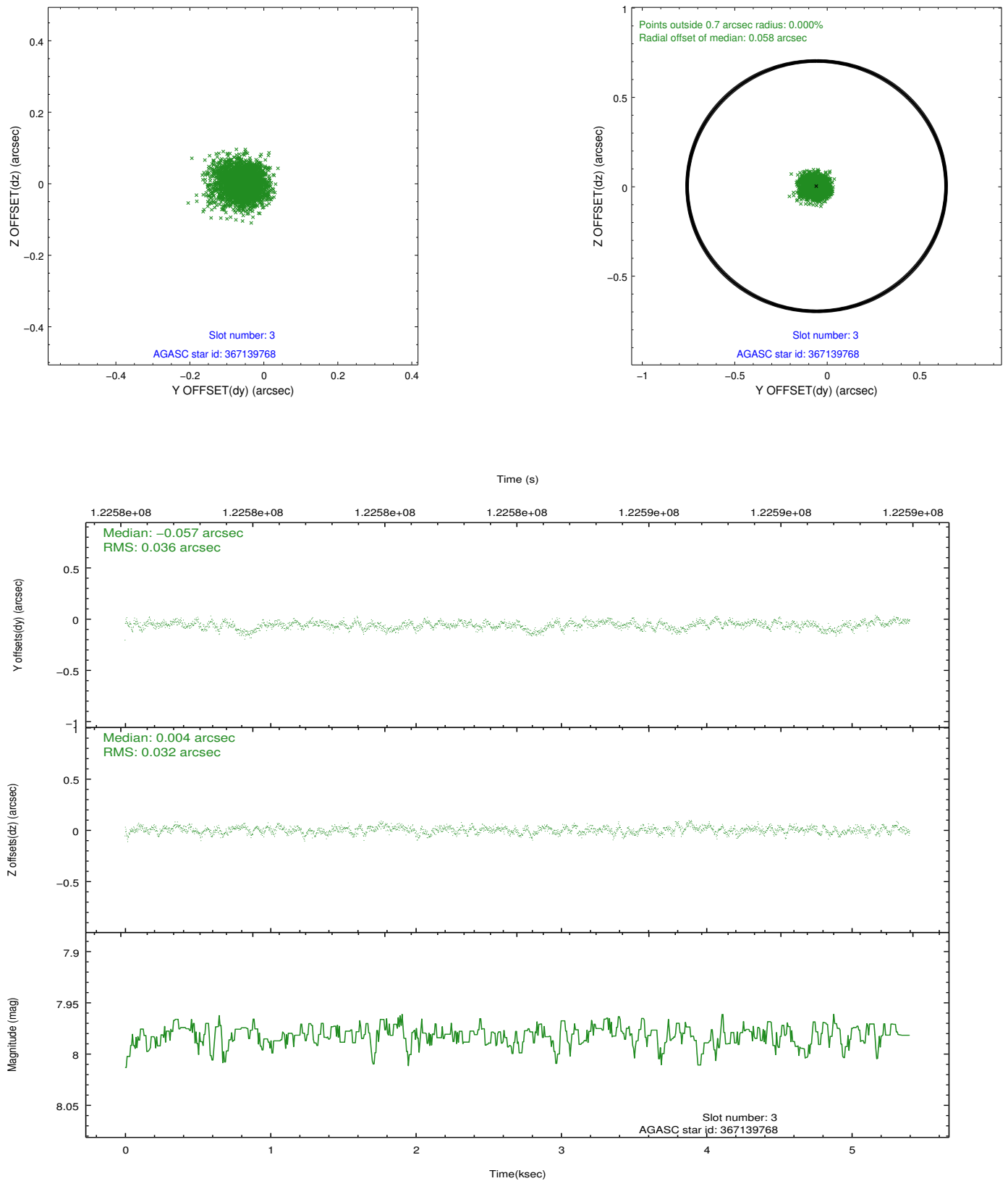


Slot Statistics

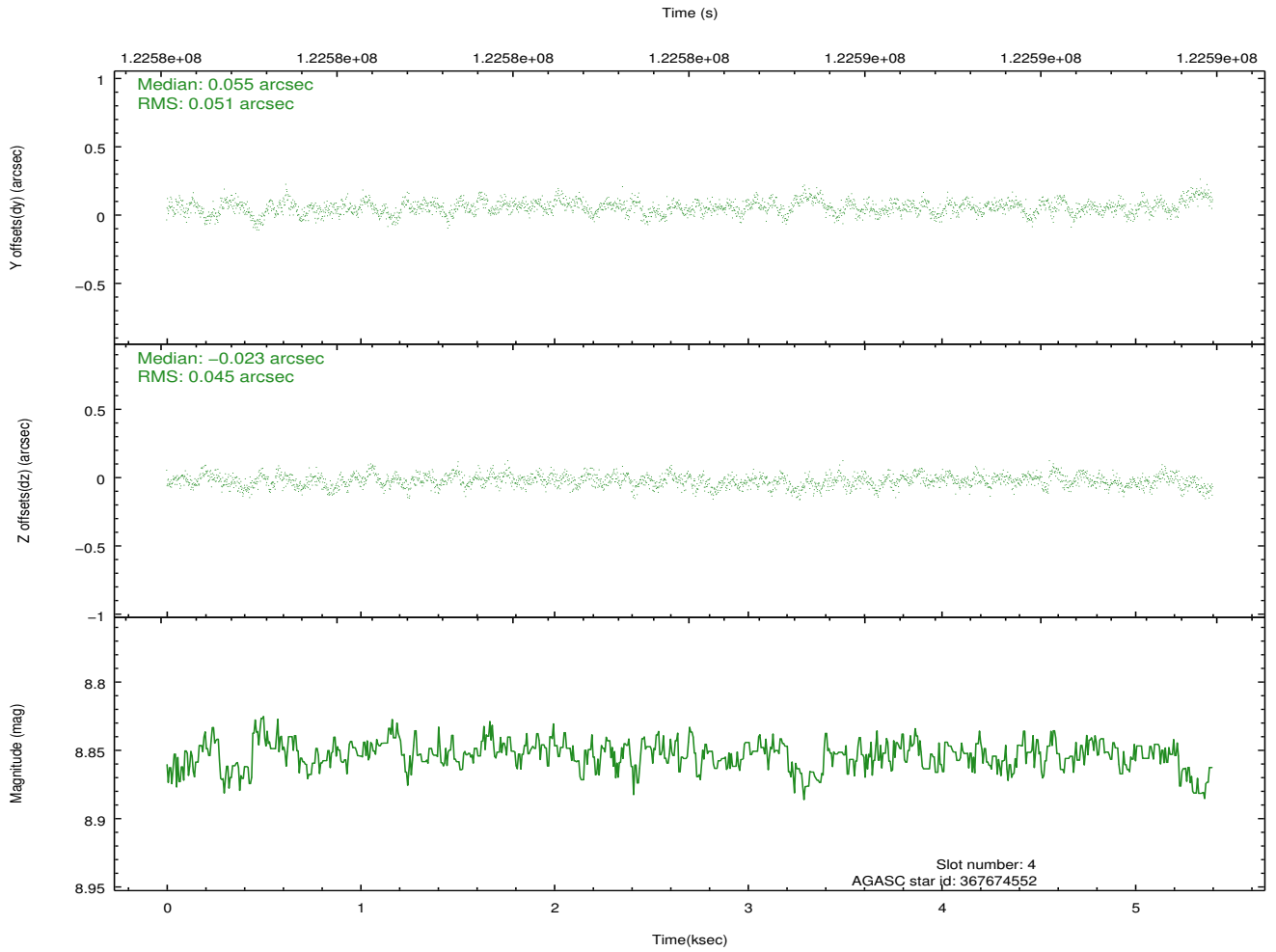
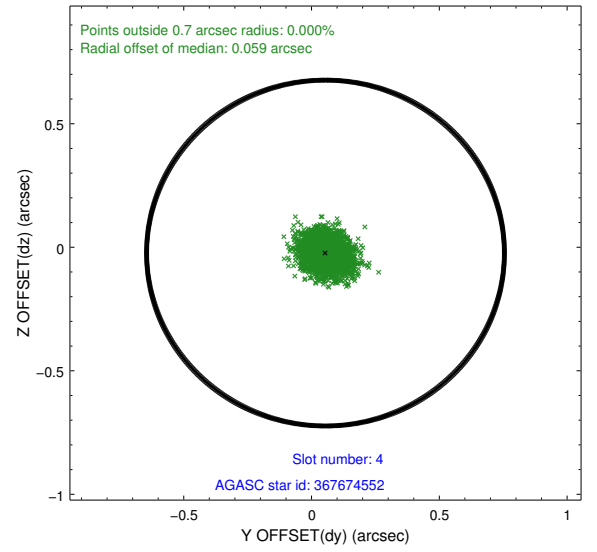
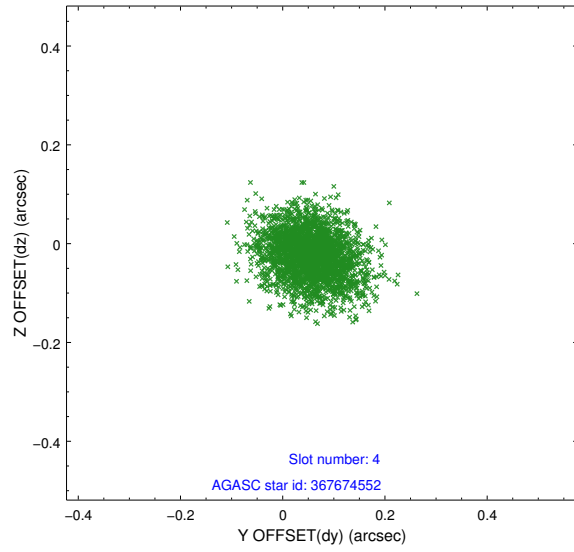
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1316	-0.013	0.037	0.009	0.018	0.000000	0.000000	937.23	-830.77
1	FID	ACIS-I-5	7.23	1316	-0.032	0.047	0.006	0.010	0.000000	0.000000	-1810.23	1066.23
2	FID	ACIS-I-6	7.26	1316	-0.046	-0.014	0.009	0.014	0.000000	0.000000	401.59	1711.89
3	GUIDE	367139768	7.98	2633	-0.057	0.004	0.051	0.084	11.069715	40.685175	1883.84	1465.92
4	GUIDE	367674552	8.85	2632	0.055	-0.023	0.072	0.117	11.016238	41.570845	-1133.03	426.78
5	GUIDE	367146616	8.86	2634	0.027	0.008	0.078	0.120	11.418645	41.190163	-129.46	1858.22
6	GUIDE	367671800	9.41	2631	-0.031	0.016	0.080	0.133	10.554735	41.964935	-2149.56	-1159.53
7	GUIDE	367665472	9.48	2626	0.013	-0.002	0.104	0.173	10.241611	41.730843	-1108.95	-1735.96

2.4 Star Slots

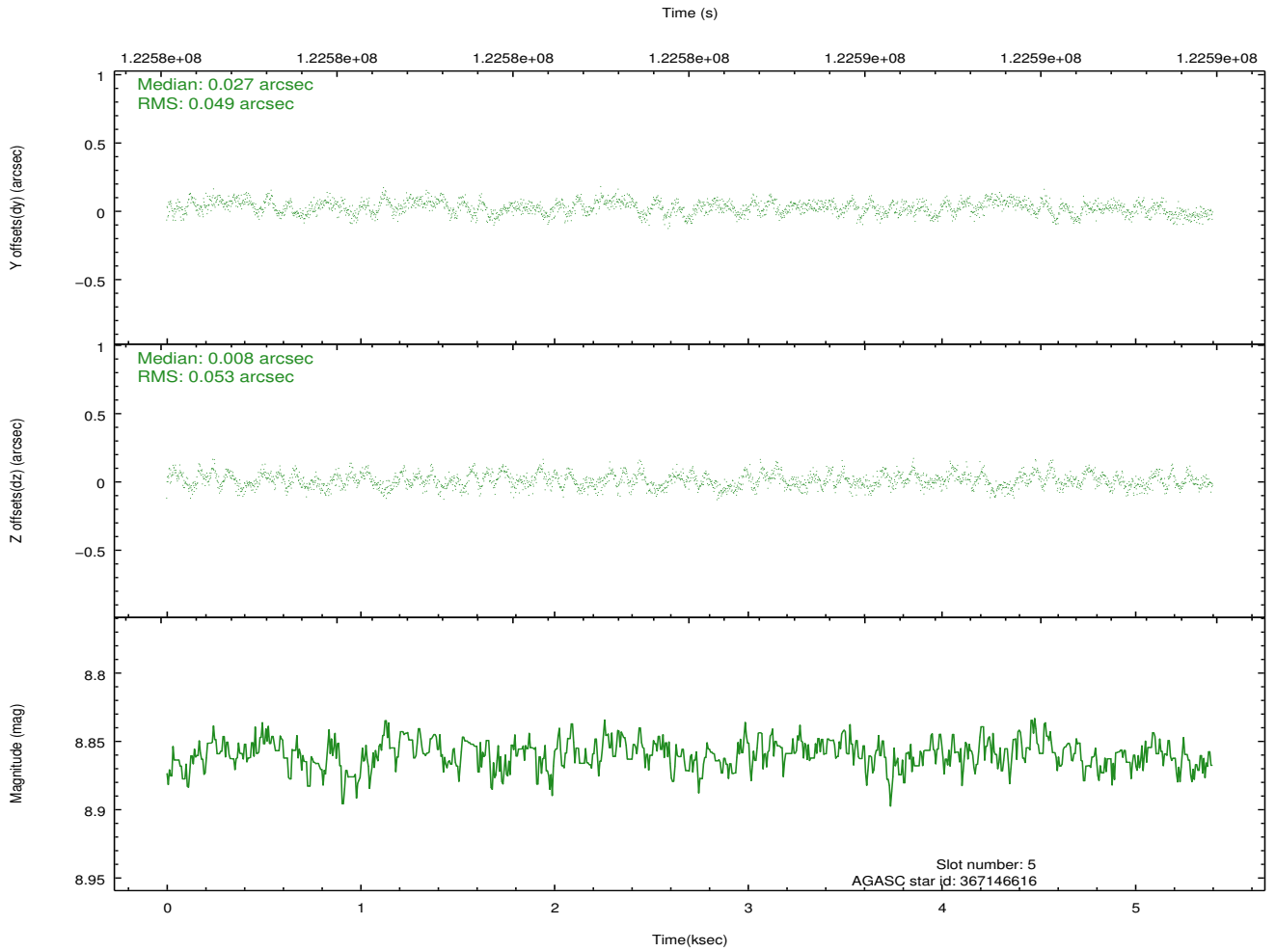
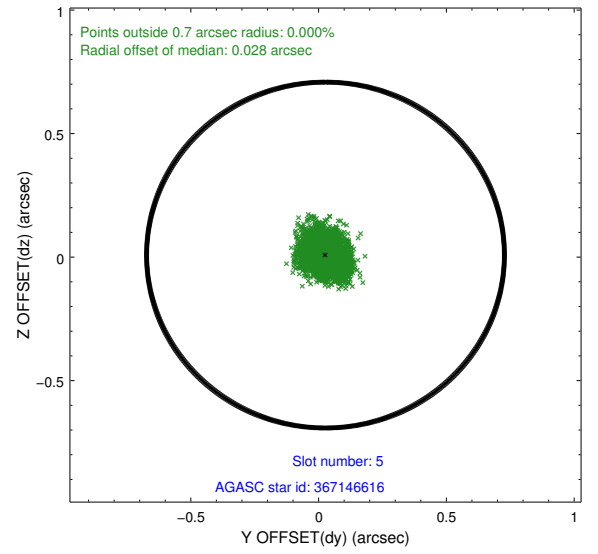
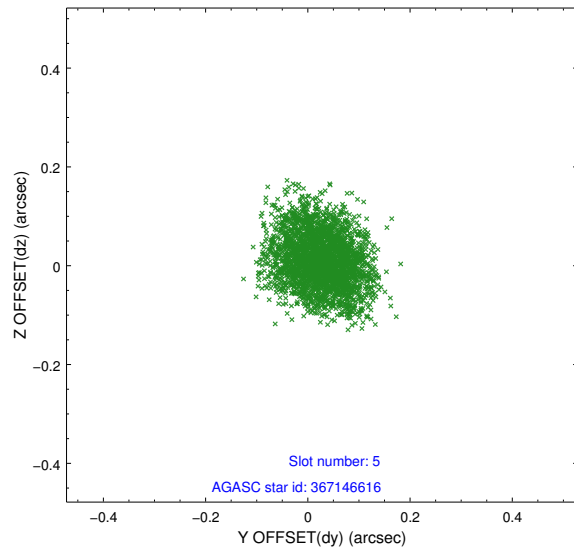
2.4.1 Slot 3



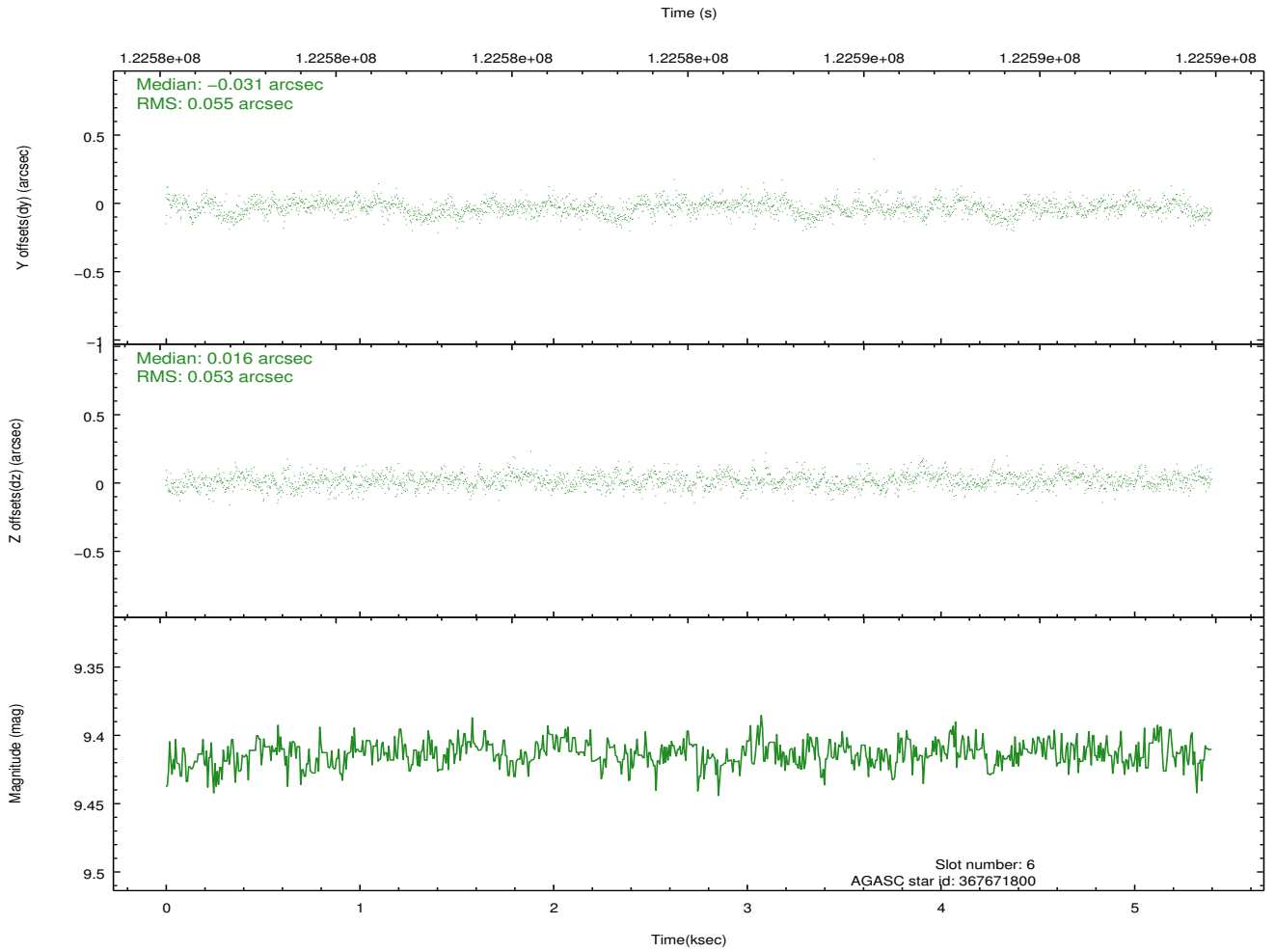
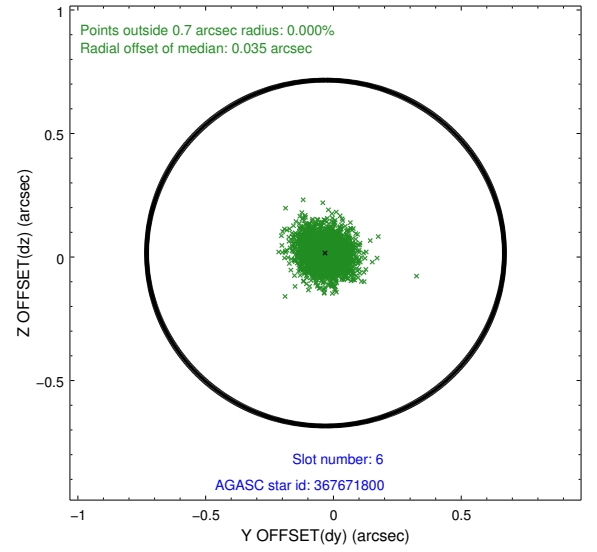
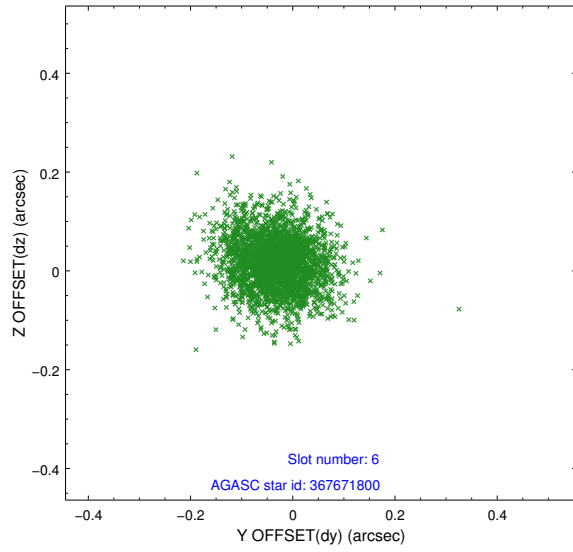
2.4.2 Slot 4



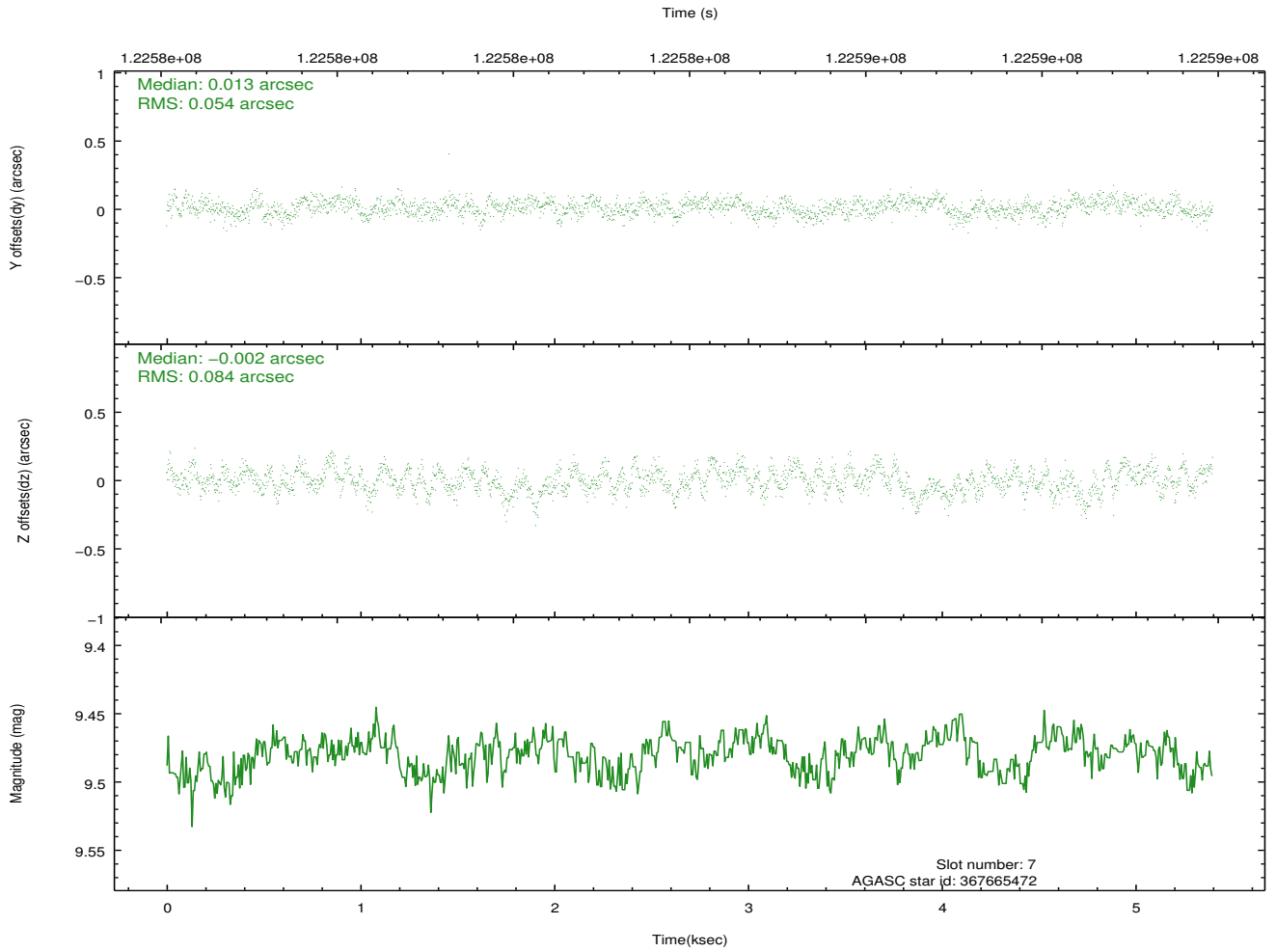
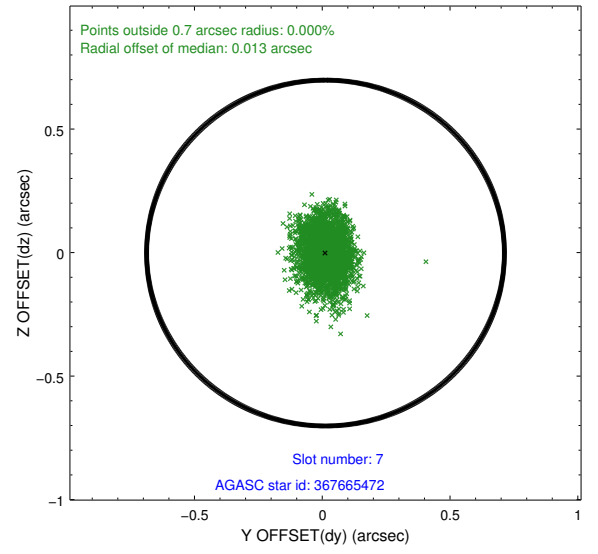
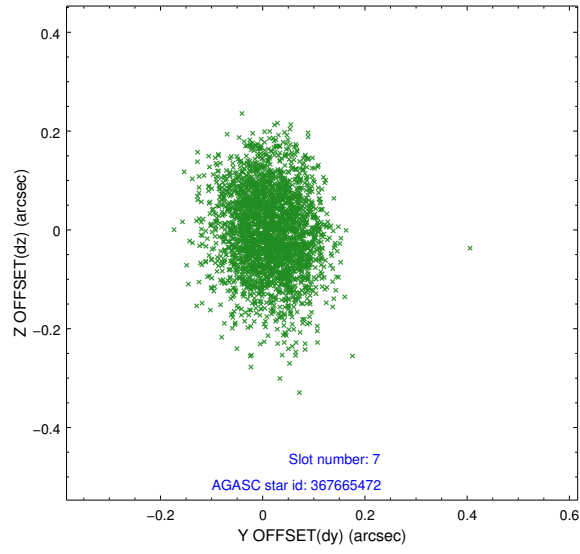
2.4.3 Slot 5



2.4.4 Slot 6

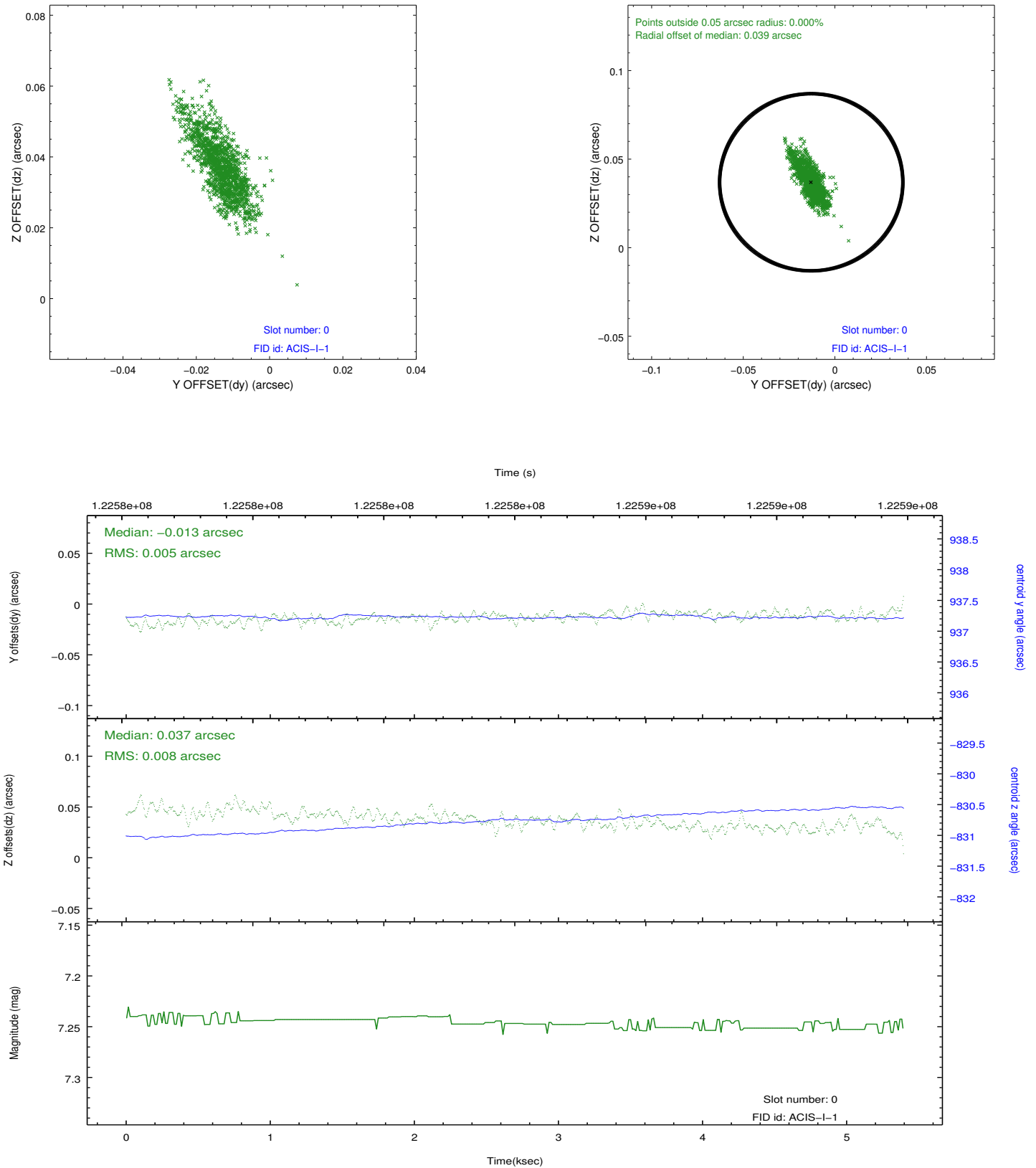


2.4.5 Slot 7

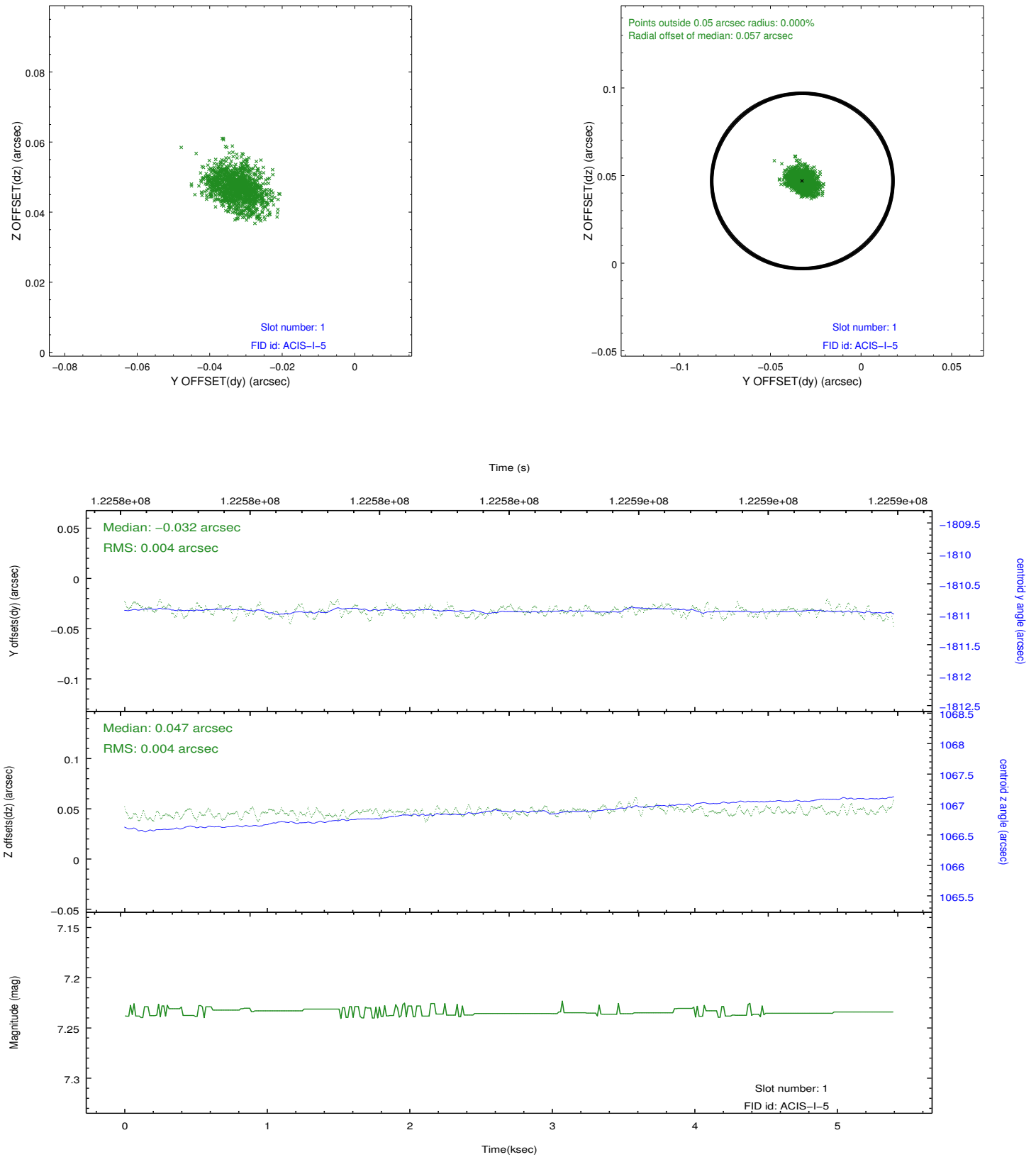


2.5 FID Slots

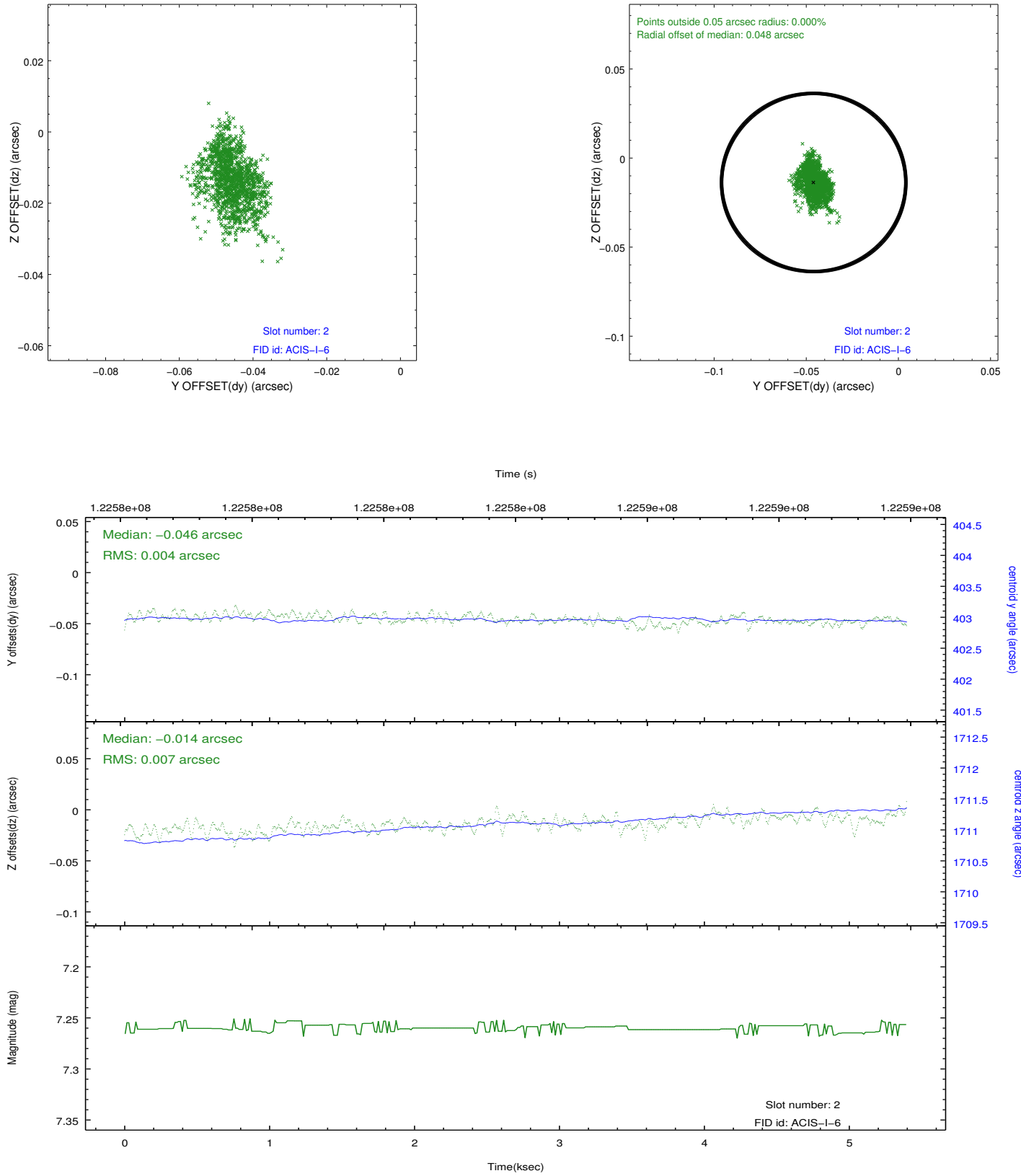
2.5.1 Slot 0



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)	2012.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.947

A.2 Comments

Window constraint met.