

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8184 - L2 Version 3
Chandra X-Ray Center

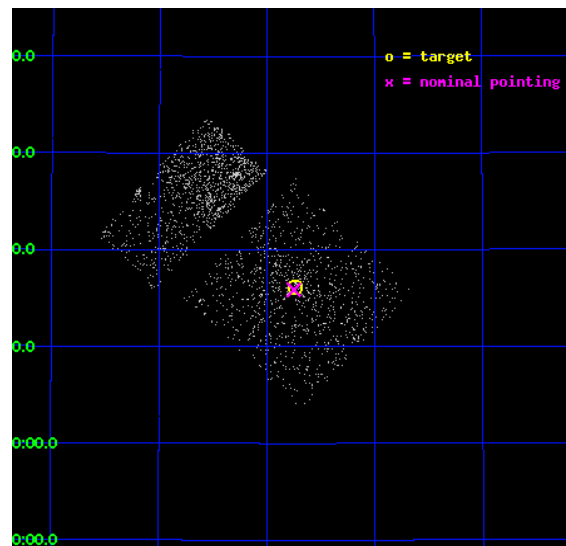
L2 Processing Date : Apr 20 2012

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1 Front

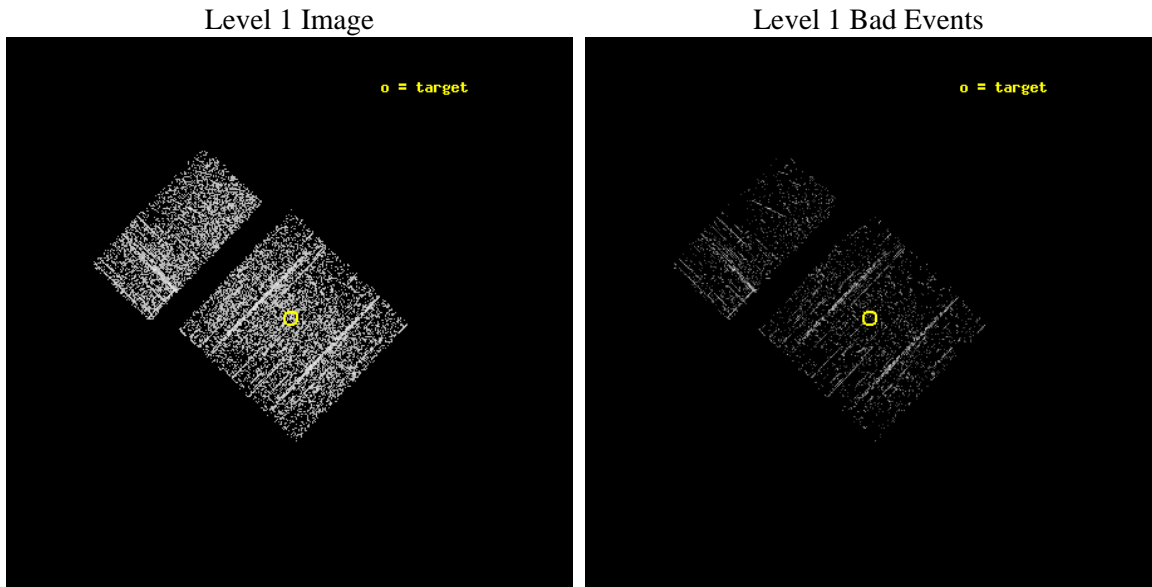
seq_num	600621	Sequence number
obs_id	8184	Observation id
title	Continued M31 Monitoring for Black Hole X-ray Nova	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.687400271165	Nominal RA [deg]
dec_nom	41.264538316133	Nominal Dec [deg]
roll_nom	313.82371987125	Nominal Roll [deg]
revision	3	Processing version of data
ontime	982.78799492121	Sum of GTIs [s]
livetime	154.71453679335	Livetime [s]
ontime0	982.66487491131	Sum of GTIs [s]
ontime1	982.70591491461	Sum of GTIs [s]
ontime2	982.74695491791	Sum of GTIs [s]
ontime3	982.78799492121	Sum of GTIs [s]
ontime6	982.87007492781	Sum of GTIs [s]
ontime7	982.82903492451	Sum of GTIs [s]
l2events	2477	Number of level 2 events



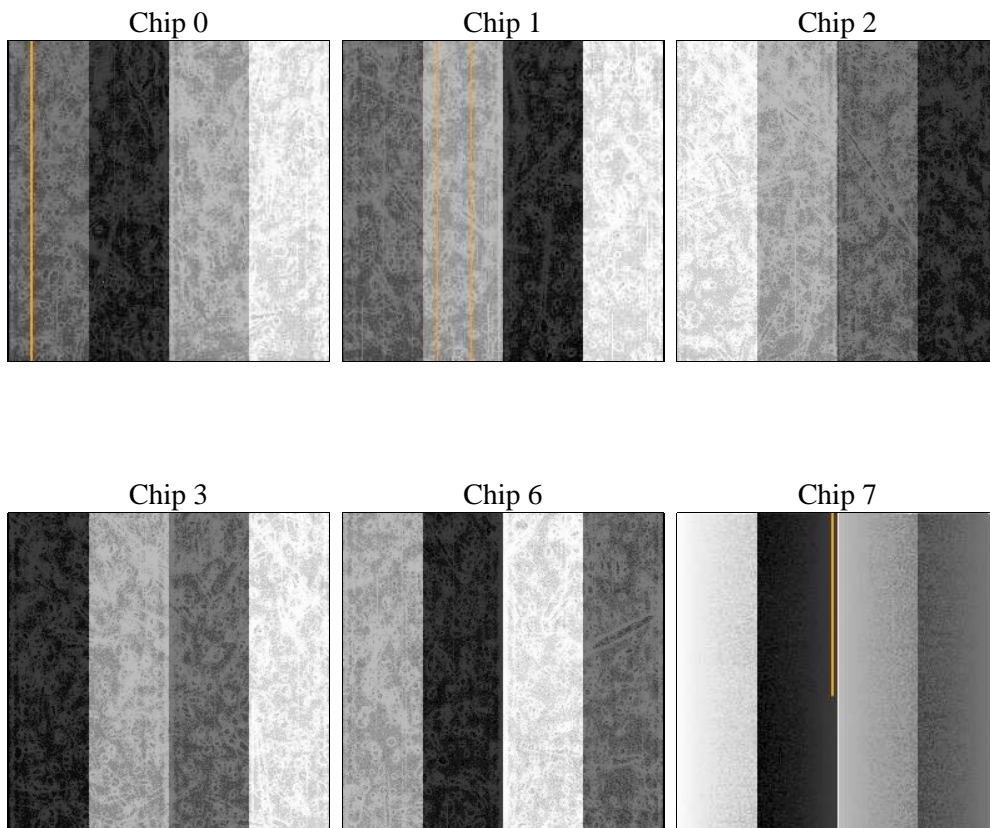
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	982.78799492121	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	982.66487491131	Sum of GTIs [s]
date	2012-04-20T03:17:43	Date and time of file creation	ontime1	982.70591491461	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	982.74695491791	Sum of GTIs [s]
			ontime3	982.78799492121	Sum of GTIs [s]
			ontime6	982.87007492781	Sum of GTIs [s]
			ontime7	982.82903492451	Sum of GTIs [s]
			l1events	25516	Number of level 1 events

2.1.4 Events

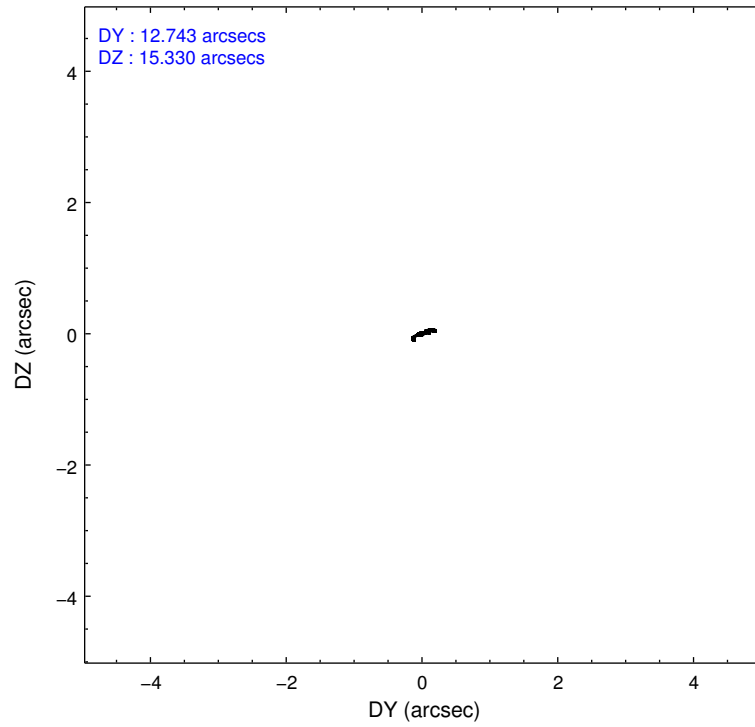
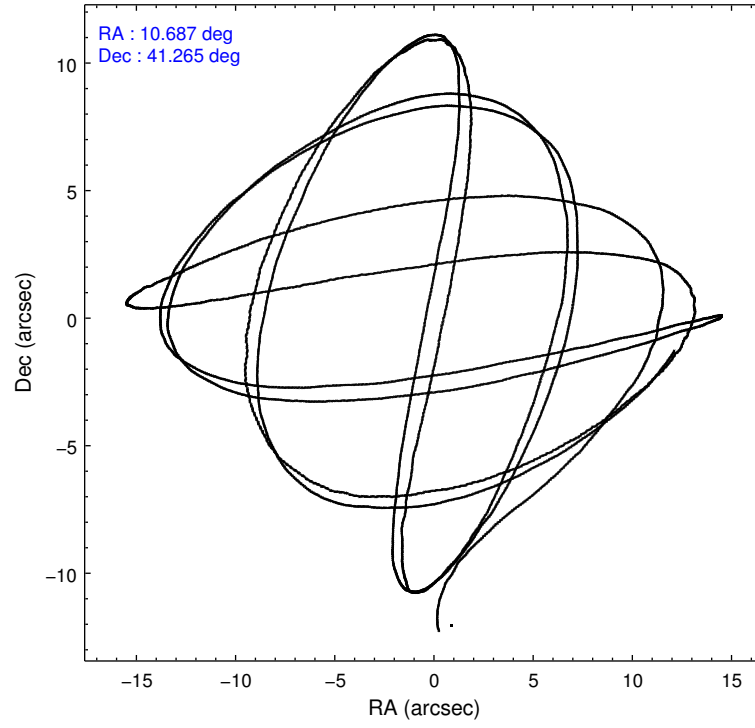
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	4127	4023	4686	4051	5017	3612
rejected events	3812	3587	4270	3649	4663	2650
rejected %	92%	89%	91%	90%	92%	73%

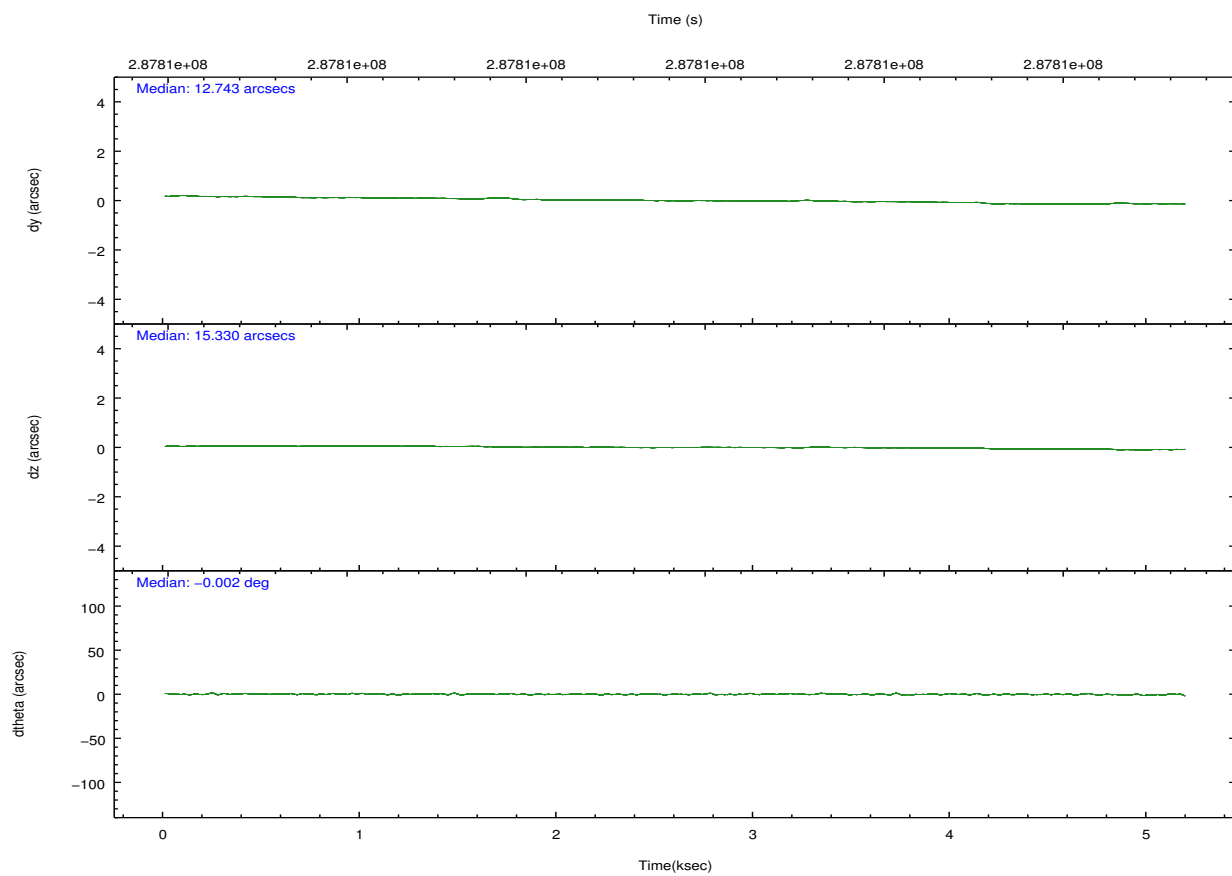
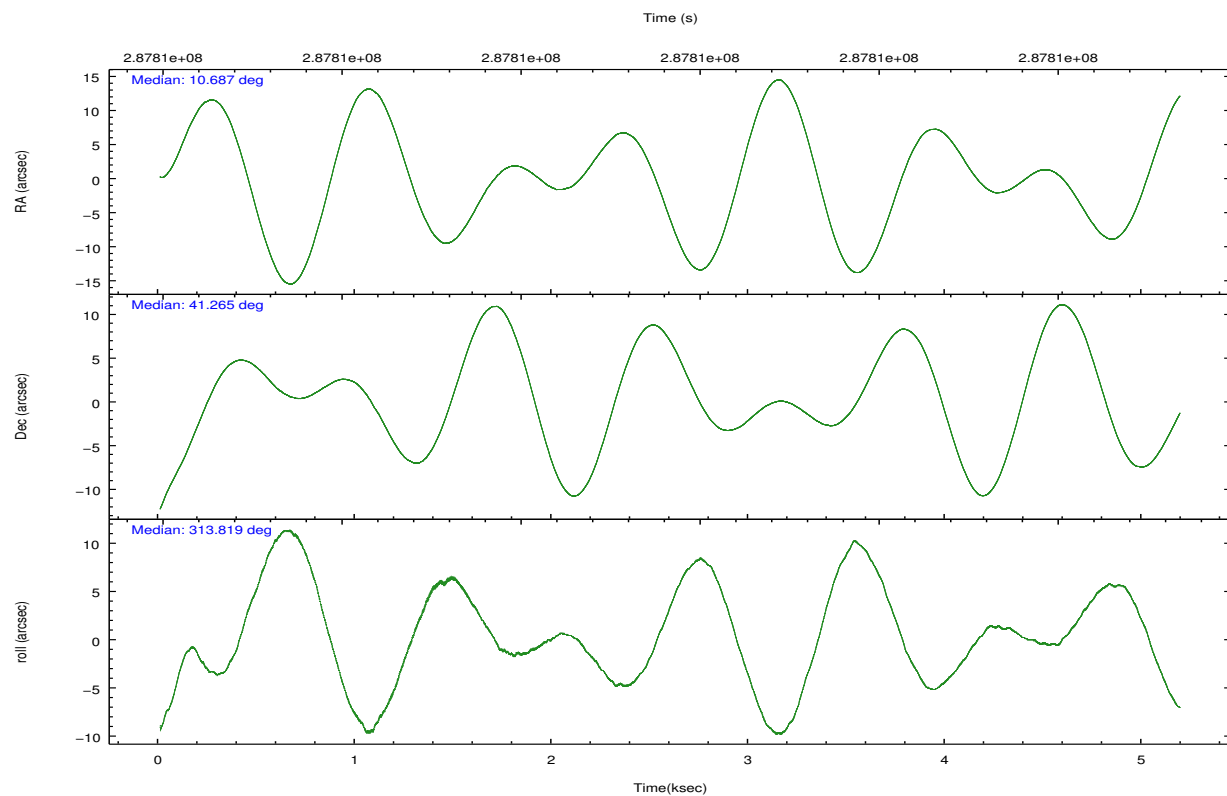
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	127	208	190	207	139	102
	3%	5%	4%	5%	2%	2%
grade 1 events	2	2	3	3	1	4
	0%	0%	0%	0%	0%	0%
grade 2 events	84	90	83	74	85	262
	2%	2%	1%	1%	1%	7%
grade 3 events	42	53	48	47	47	93
	1%	1%	1%	1%	0%	2%
grade 4 events	46	50	54	48	58	84
	1%	1%	1%	1%	1%	2%
grade 5 events	128	125	102	170	158	304
	3%	3%	2%	4%	3%	8%
grade 6 events	65	73	77	57	73	535
	1%	1%	1%	1%	1%	14%
grade 7 events	3633	3422	4129	3445	4456	2228
	88%	85%	88%	85%	88%	61%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	10.652161	10.68740027116468	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.272160	41.26453831613266	Alternating exposures requested	Y	Y
[deg] Pointing Roll	313.638297	313.8237198712503	[s] Primary exposure time	0.600000	0.6
[mm] SIM focus pos	-0.782348	-0.7809083437167272	[s] Secondary exposure time	0.000000	3.2
[mm] SIM defocus	0	0.001439871863259334	Duty cycle	5	5
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	287806440.184000	287805011.79817			
Observation start date	2007-02-14T02:12:55	2007-02-14T01:50:11			
[s] Observation end time (MET)	287811440.184000	287812784.88603			
Observation end date	2007-02-14T03:36:15	2007-02-14T03:59:44			
Read mode	TIMED	TIMED			

2.3 Aspect



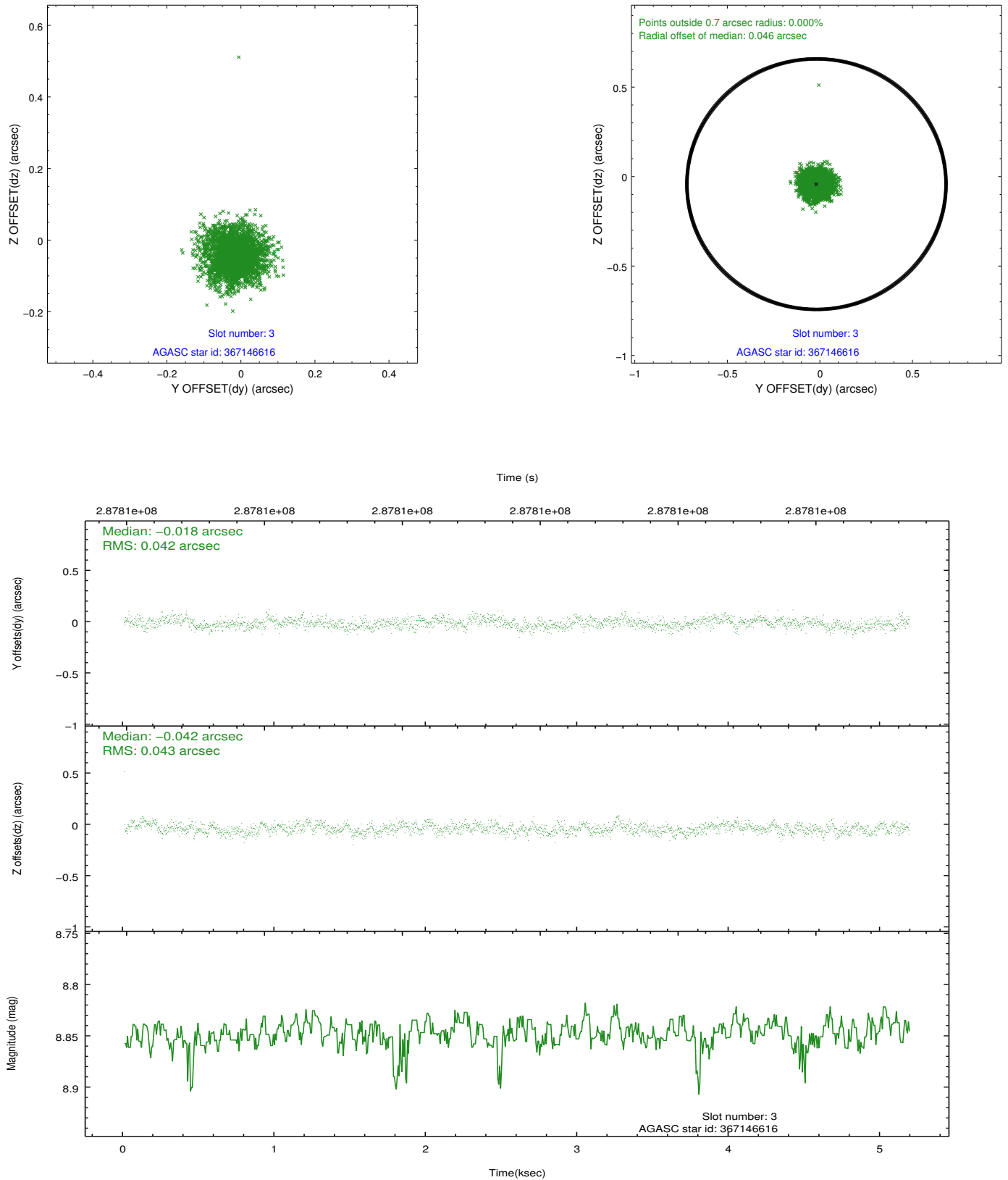


Slot Statistics

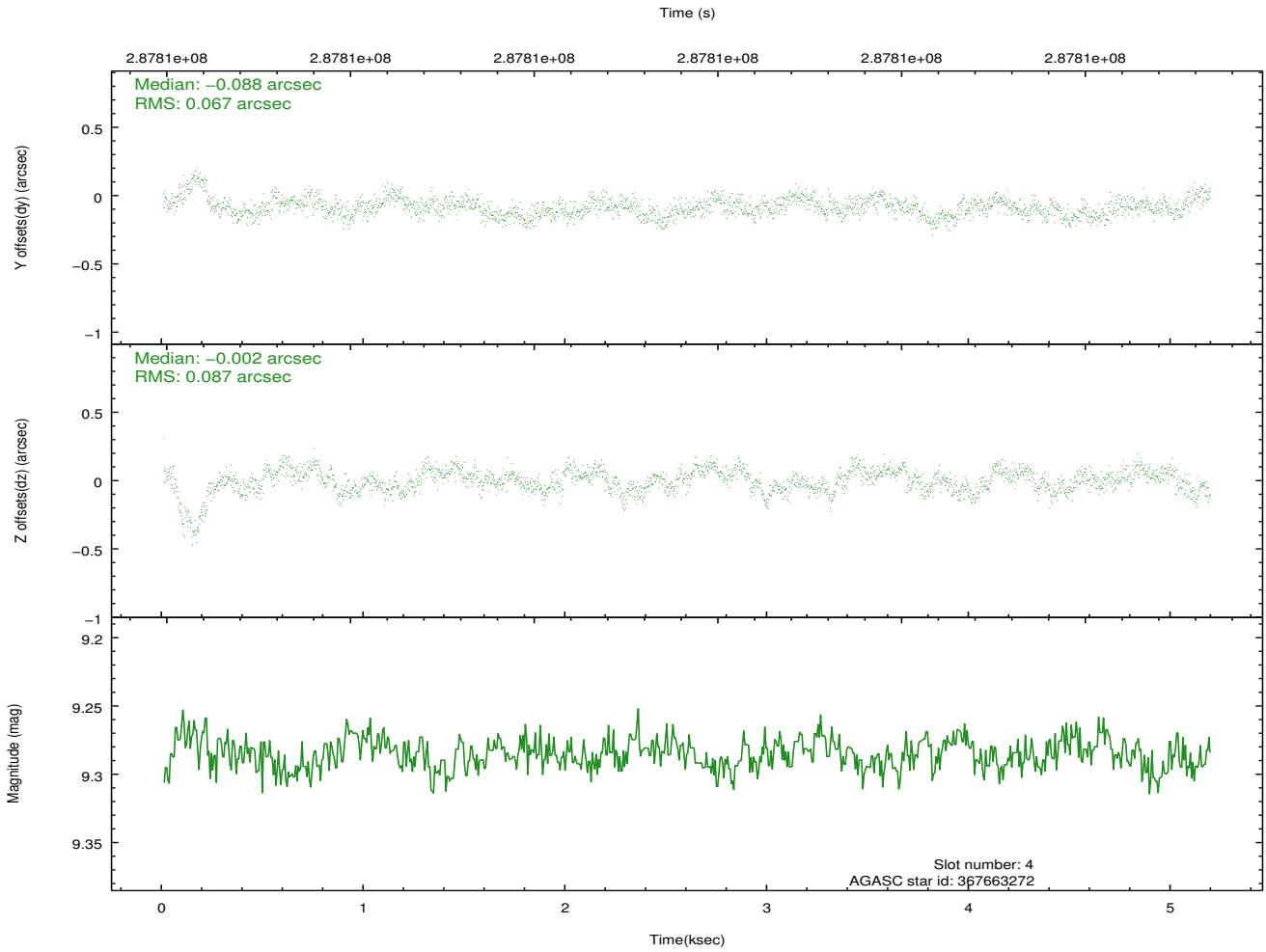
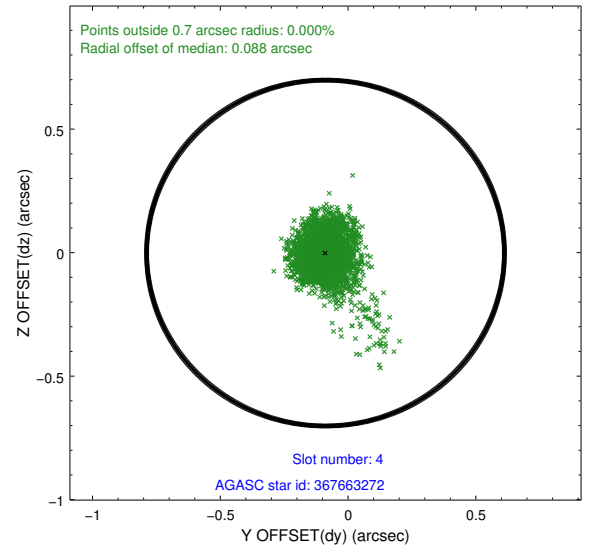
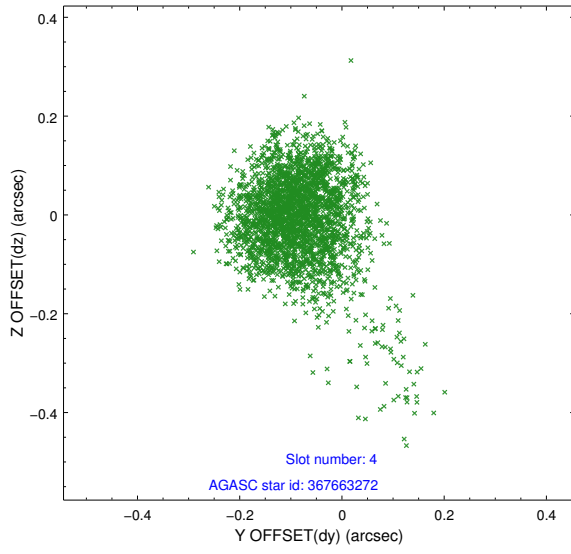
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1263	0.041	-0.033	0.009	0.015	0.000000	0.000000	926.80	-838.98
1	FID	ACIS-I-5	7.22	1266	-0.200	0.044	0.008	0.015	0.000000	0.000000	-1820.89	1058.02
2	FID	ACIS-I-6	7.24	1265	0.067	0.059	0.007	0.012	0.000000	0.000000	391.12	1703.85
3	GUIDE	367146616	8.85	2526	-0.018	-0.042	0.064	0.102	11.418645	41.190163	1639.76	1305.61
4	GUIDE	367663272	9.29	2531	-0.088	-0.002	0.106	0.175	10.656279	41.699429	-1105.40	1069.45
5	GUIDE	367674552	8.84	2530	-0.052	0.035	0.075	0.123	11.016238	41.570845	-103.60	1453.71
6	GUIDE	367148872	7.23	2531	0.033	-0.088	0.062	0.104	10.505940	40.688258	1245.89	-1738.95
7	GUIDE	367657272	8.43	2530	0.121	0.103	0.065	0.104	11.834471	41.298907	2121.61	2395.40

2.4 Star Slots

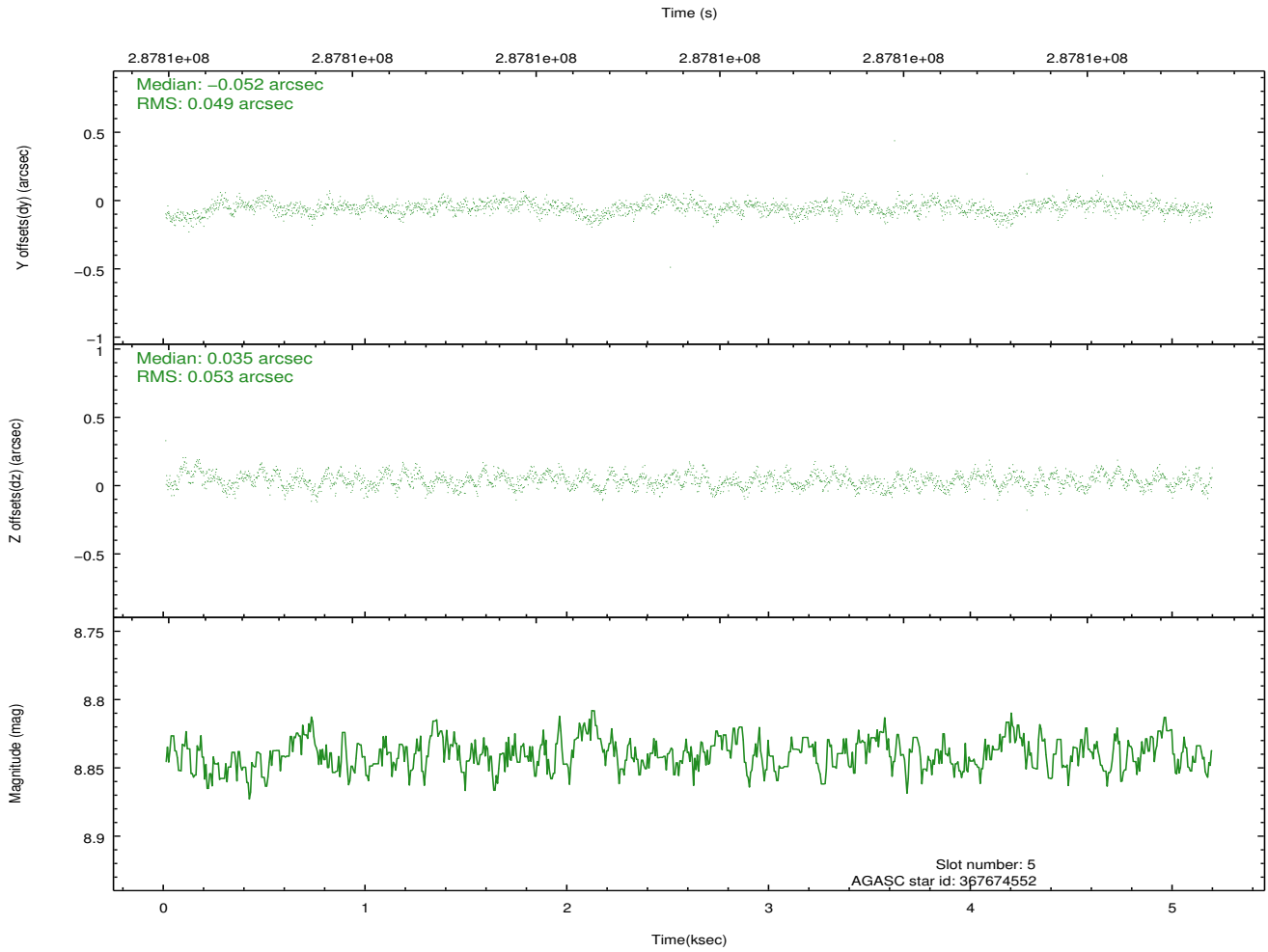
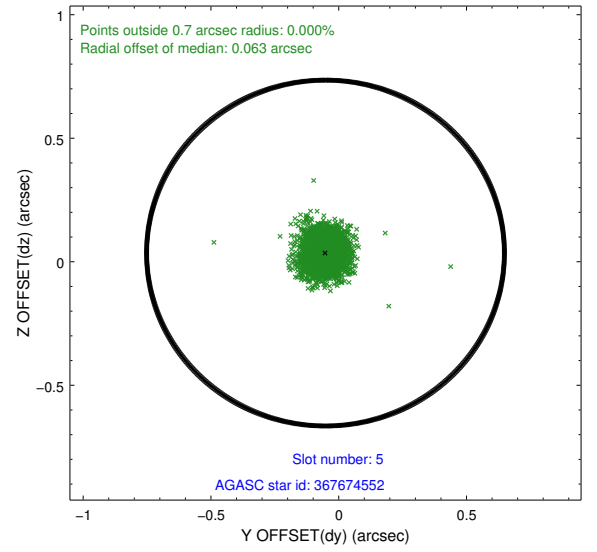
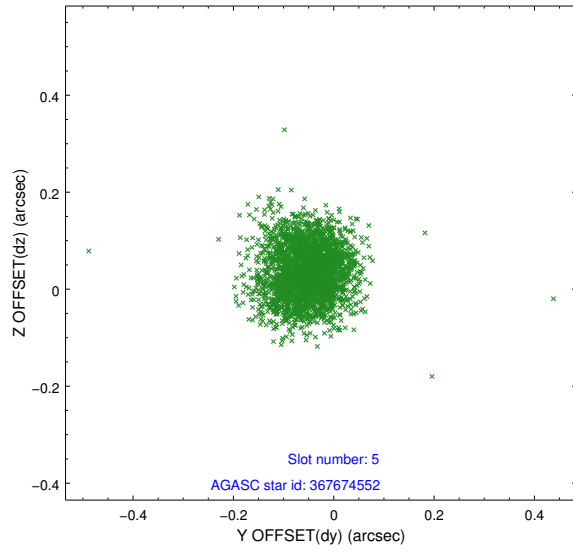
2.4.1 Slot 3



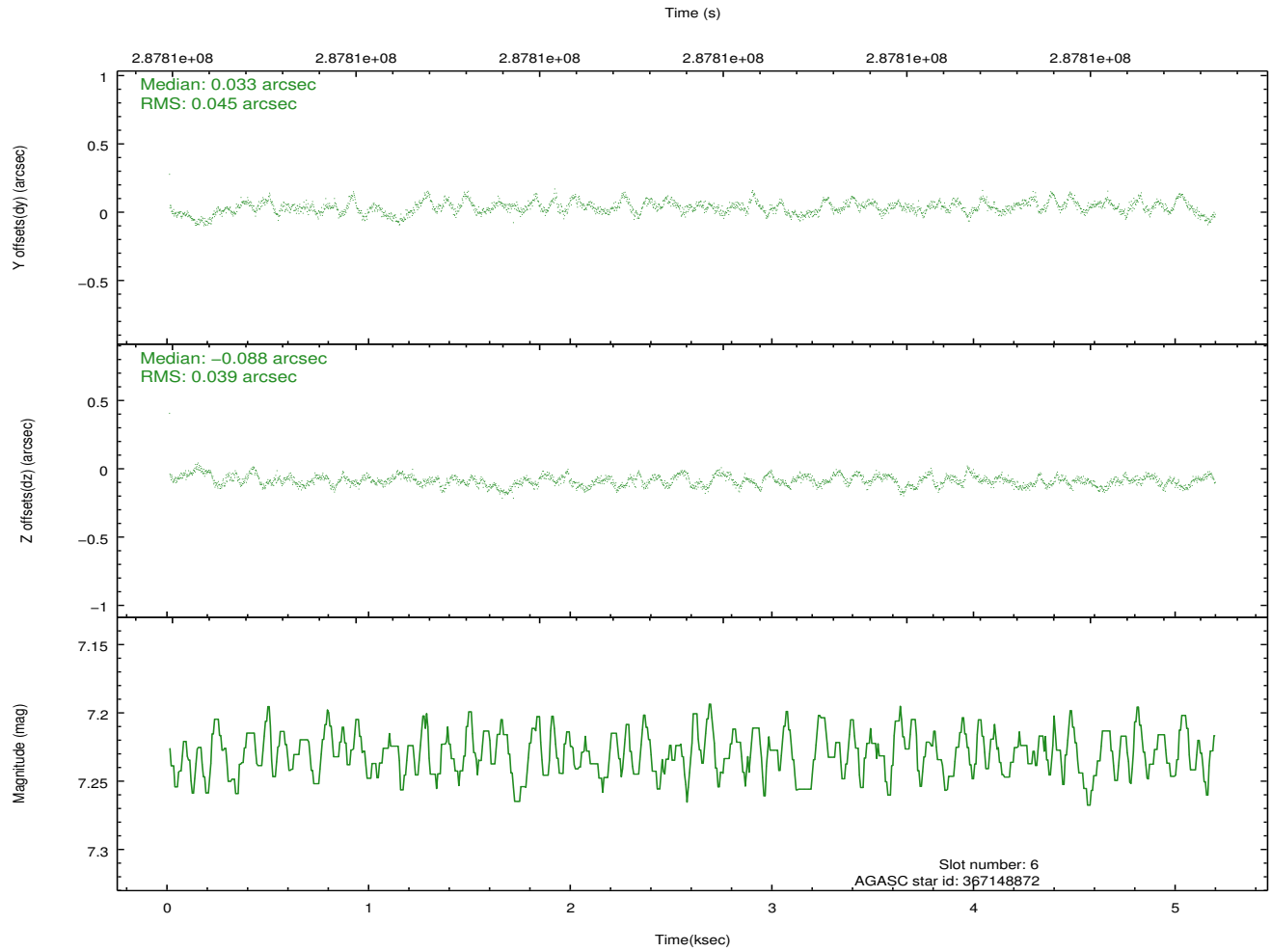
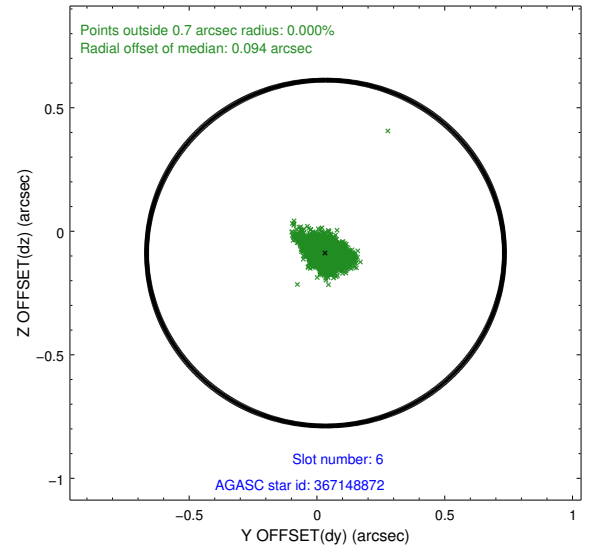
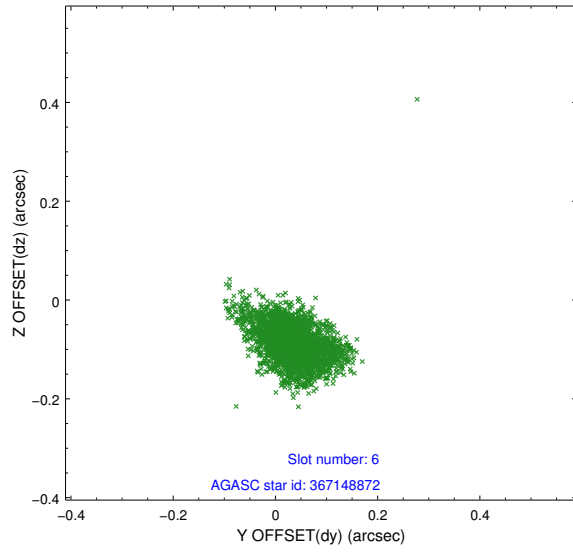
2.4.2 Slot 4



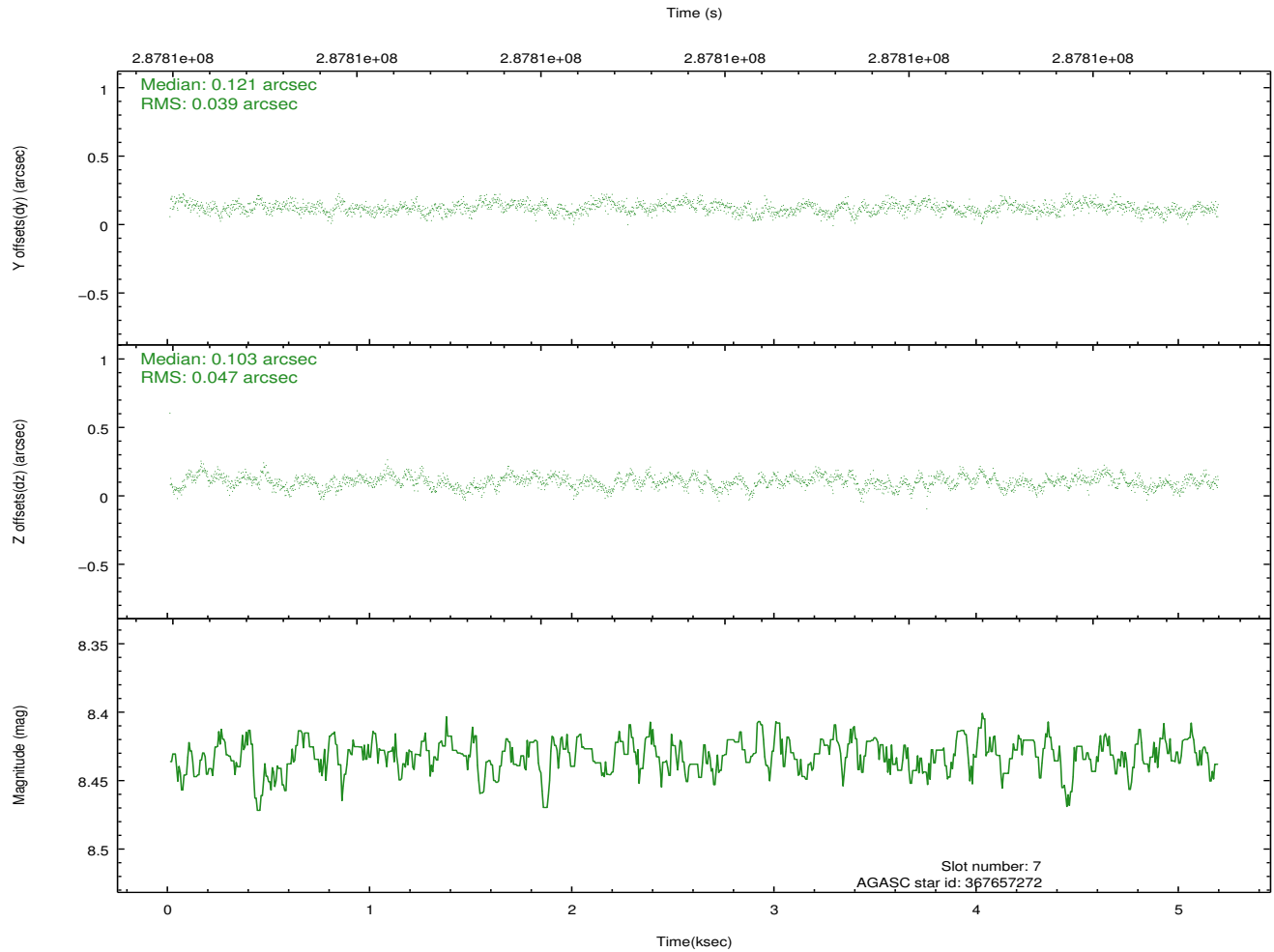
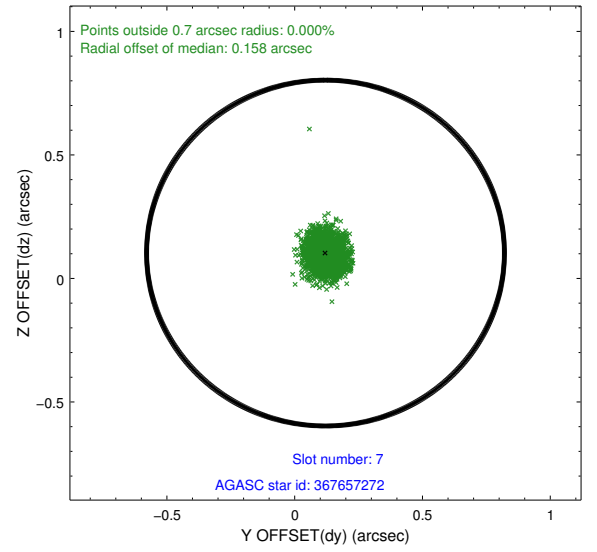
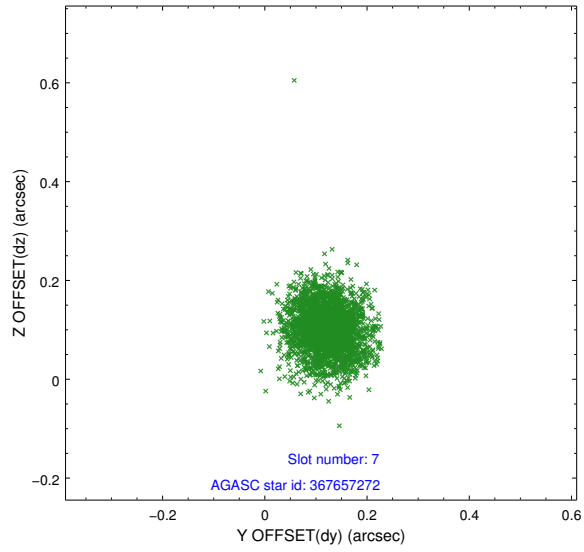
2.4.3 Slot 5



2.4.4 Slot 6

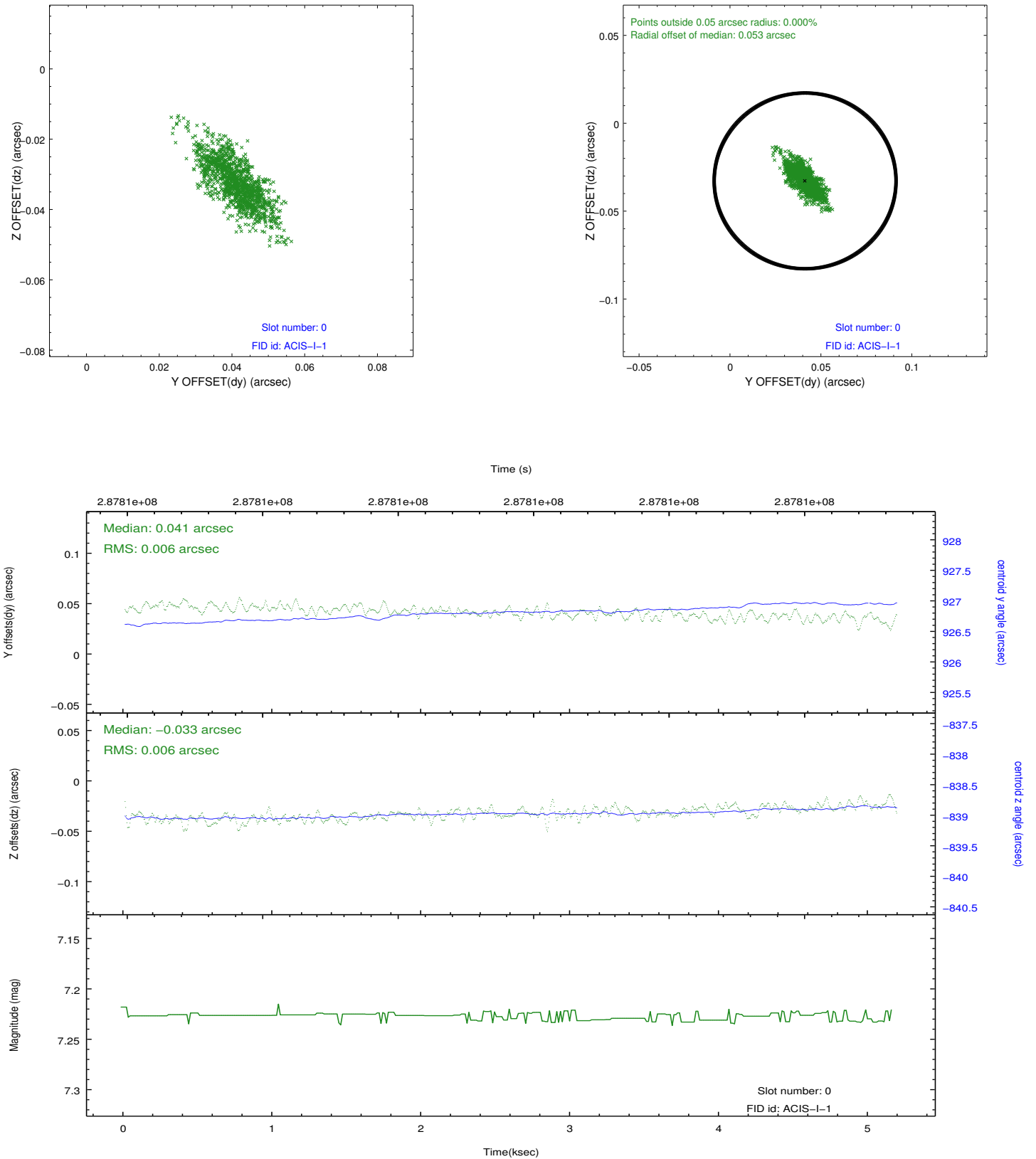


2.4.5 Slot 7

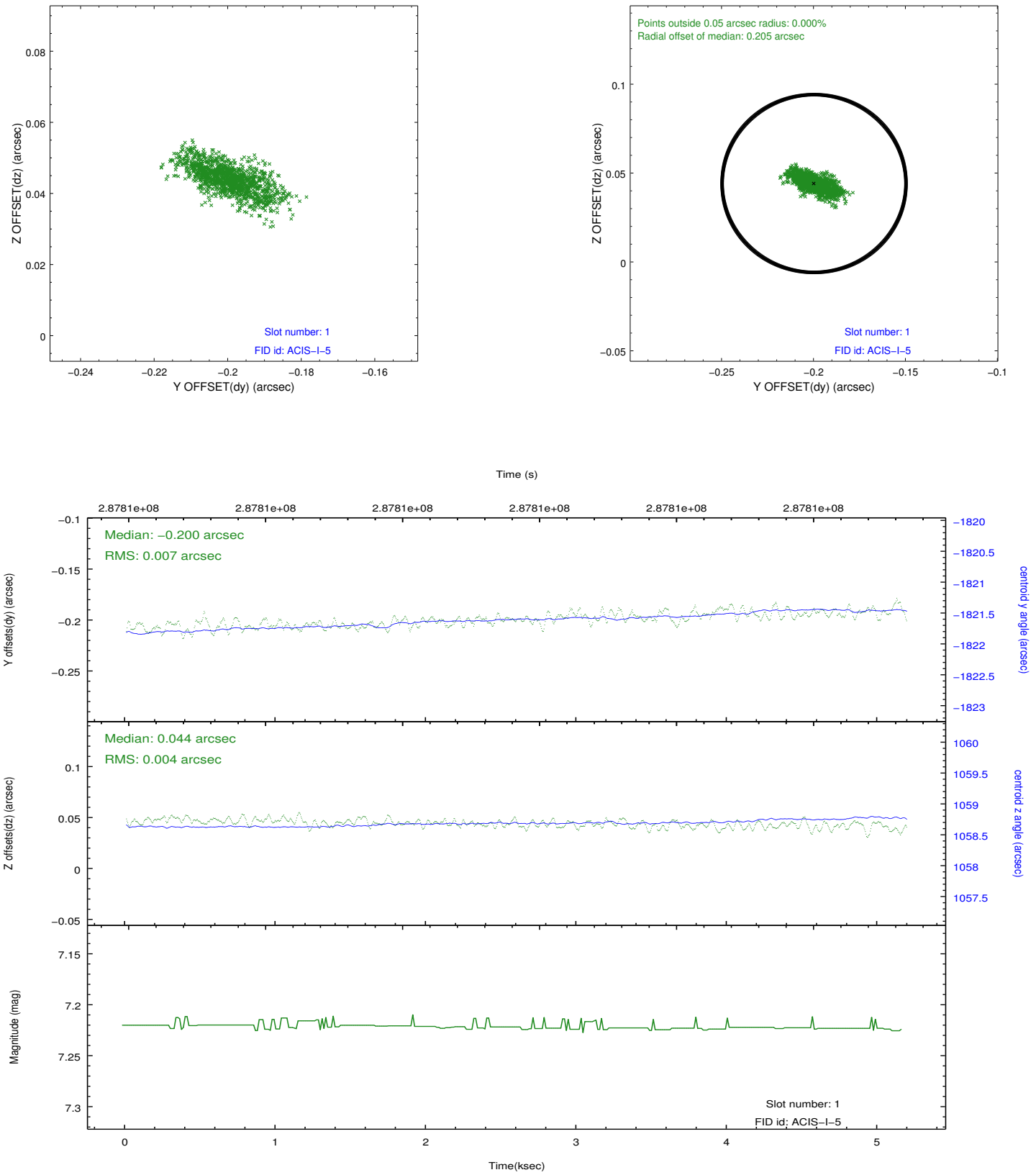


2.5 FID Slots

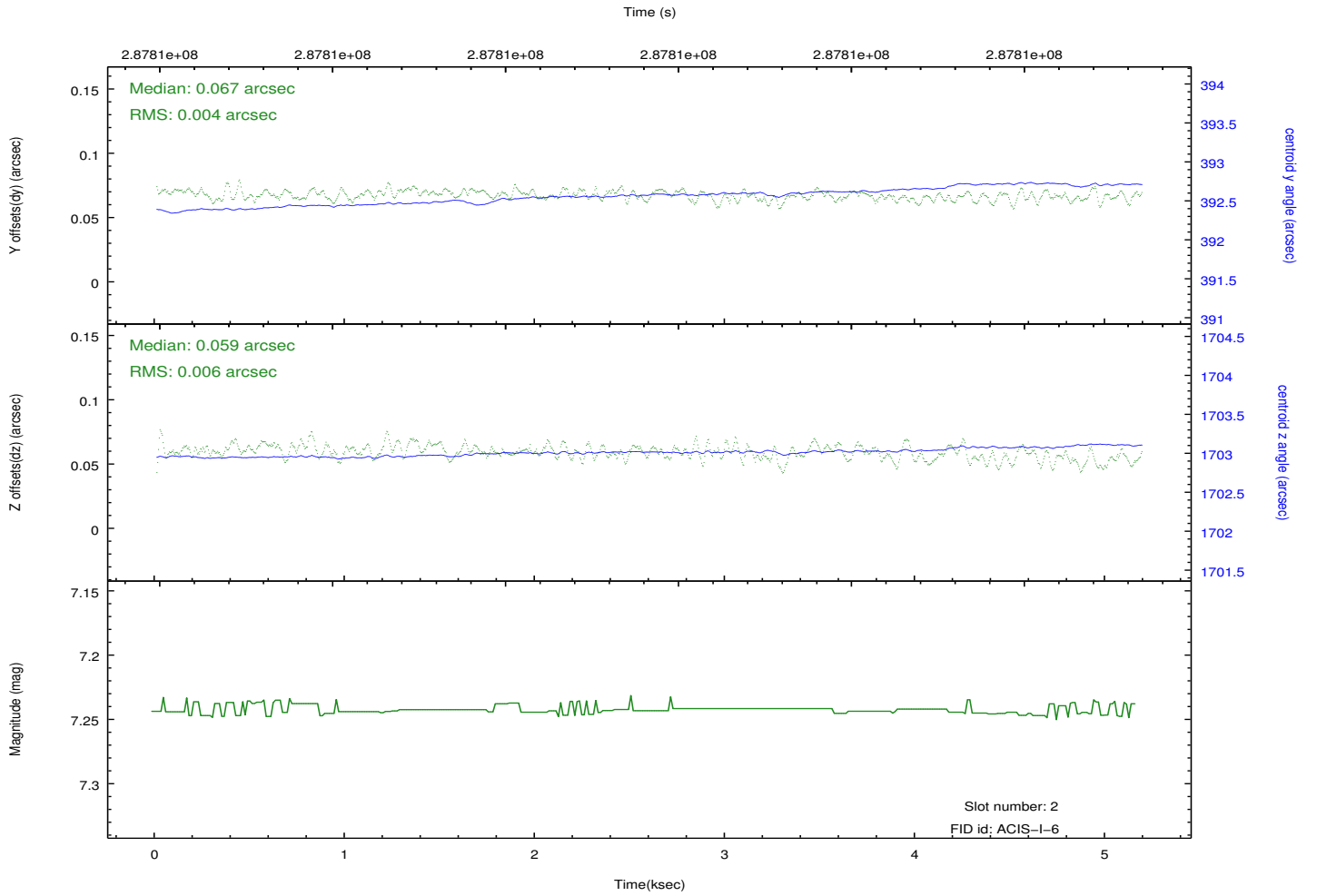
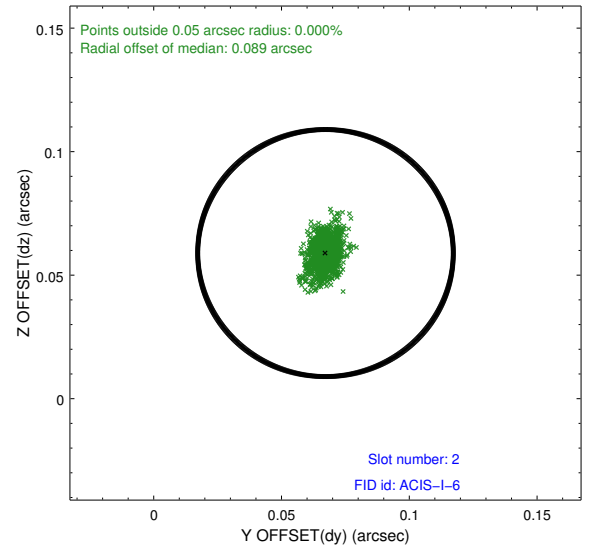
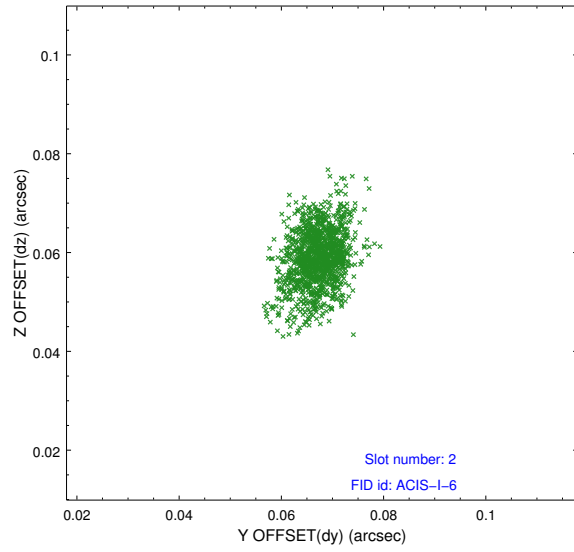
2.5.1 Slot 0



2.5.2 Slot 1



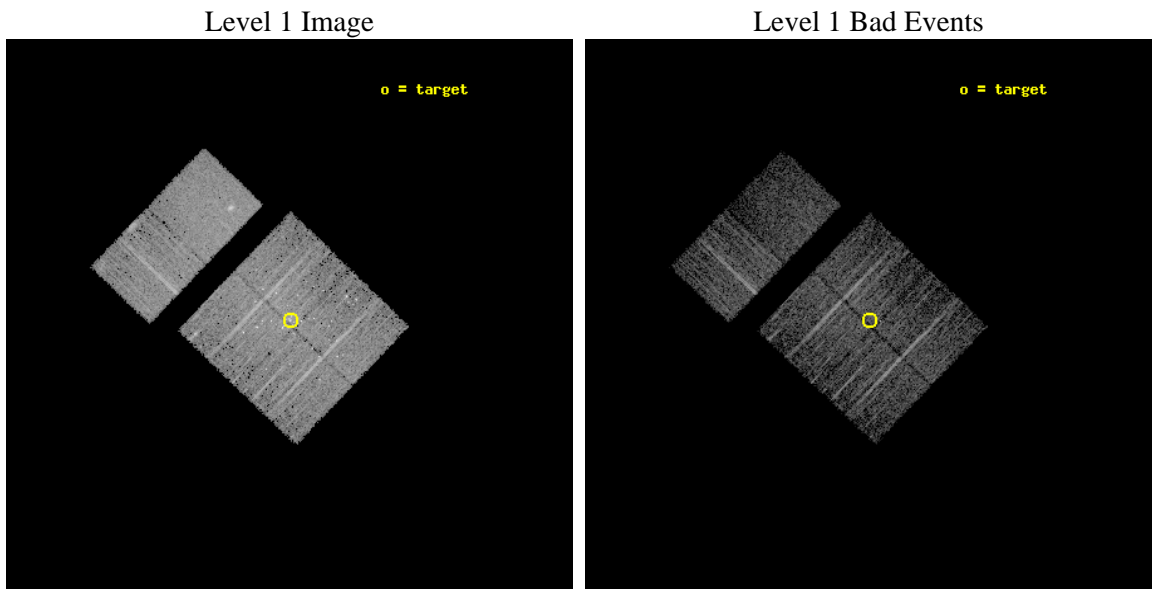
2.5.3 Slot 2



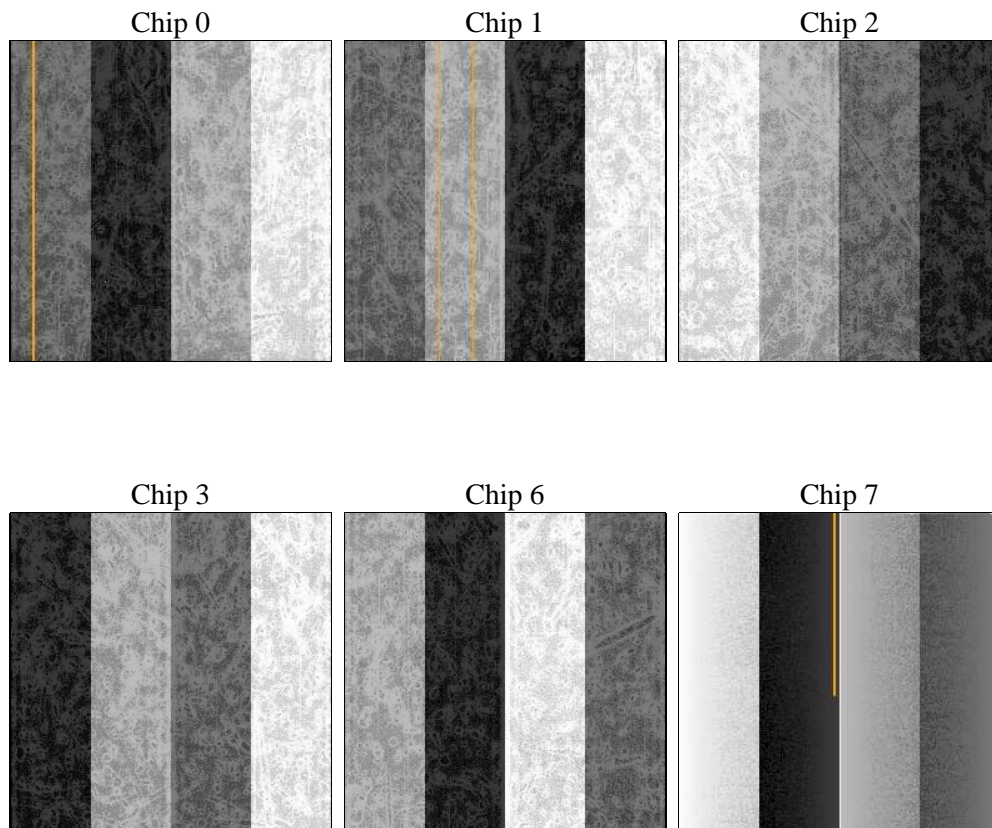
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4192.6795286536	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4192.6801055074	Sum of GTIs [s]
date	2012-04-20T03:18:50	Date and time of file creation	ontime1	4192.6799370646	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4192.6799777746	Sum of GTIs [s]
			ontime3	4192.6795286536	Sum of GTIs [s]
			ontime6	4192.6796975136	Sum of GTIs [s]
			ontime7	4192.6795679927	Sum of GTIs [s]
			l1events	223906	Number of level 1 events

3.1.4 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	33923	35443	38961	37204	37500	40875	grade 0 events	2345	3923	3927	4150	2168	2010
rejected events	29591	28743	32836	30730	33167	23904		6%	11%	10%	11%	5%	4%
rejected %	87%	81%	84%	82%	88%	58%	grade 1 events	28	102	77	56	24	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	954	1287	1096	1071	952	3884
								2%	3%	2%	2%	2%	9%
							grade 3 events	462	538	443	471	414	1790
								1%	1%	1%	1%	1%	4%
							grade 4 events	399	546	503	470	446	1771
								1%	1%	1%	1%	1%	4%
							grade 5 events	1201	1342	1148	1443	1457	4231
								3%	3%	2%	3%	3%	10%
							grade 6 events	633	911	694	778	825	9565
								1%	2%	1%	2%	2%	23%
							grade 7 events	27901	26794	31073	28765	31214	17580
								82%	75%	79%	77%	83%	43%

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17576751

A.2 Comments