

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8191 - L2 Version 2
Chandra X-Ray Center

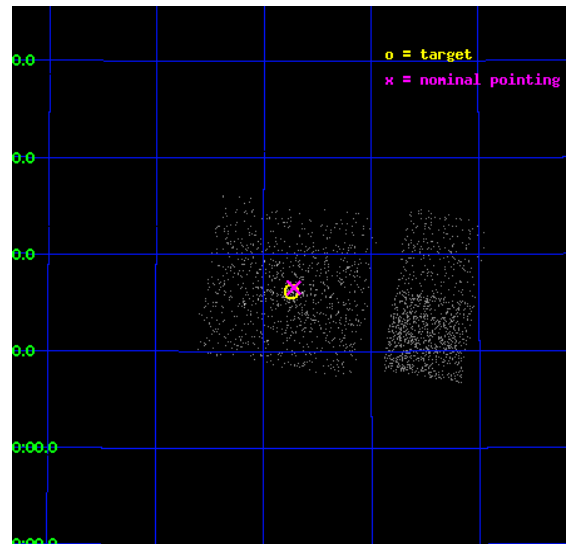
L2 Processing Date : Apr 26 2012

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1 Front

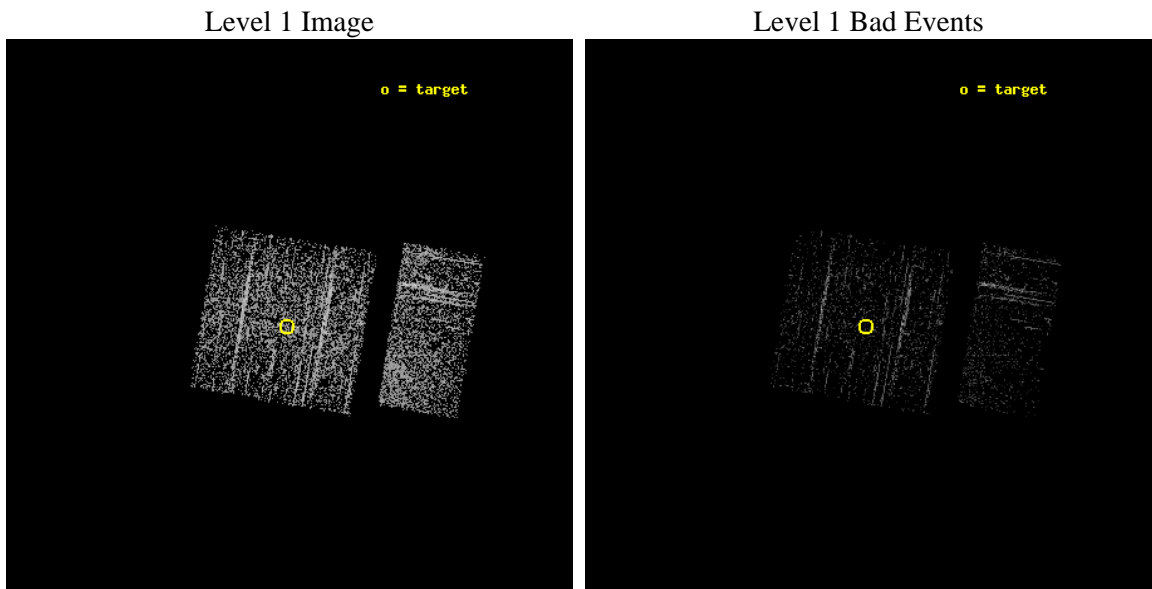
seq_num	600628	Sequence number
obs_id	8191	Observation id
title	Continued M31 Monitoring for Black Hole X-ray Nova	Proposal title
observer	Dr. Michael Garcia	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.68003148088	Nominal RA [deg]
dec_nom	41.276083808683	Nominal Dec [deg]
roll_nom	99.604764667474	Nominal Roll [deg]
revision	2	Processing version of data
ontime	937.78051060438	Sum of GTIs [s]
livetime	147.62927311055	Livetime [s]
ontime0	937.78049069643	Sum of GTIs [s]
ontime1	937.78049069643	Sum of GTIs [s]
ontime2	937.78051060438	Sum of GTIs [s]
ontime3	937.78051060438	Sum of GTIs [s]
ontime6	937.72066020966	Sum of GTIs [s]
ontime7	937.76167035103	Sum of GTIs [s]
l2events	2516	Number of level 2 events



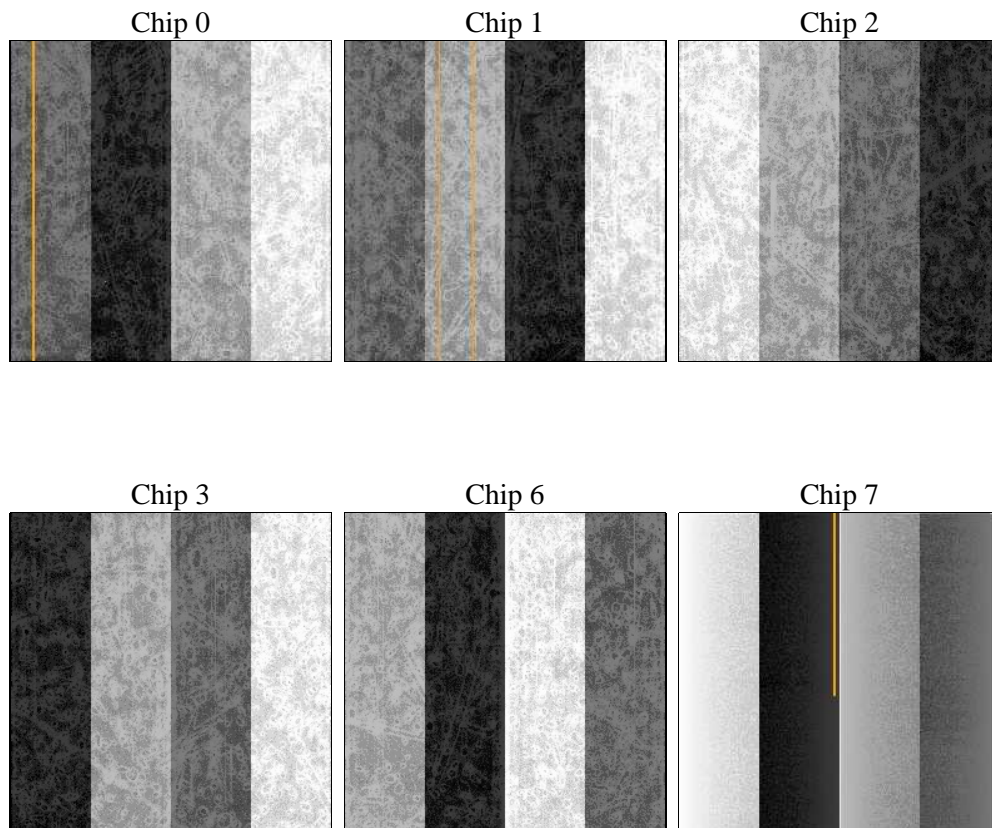
2 OBI Primary

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	937.78051060438	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	937.78049069643	Sum of GTIs [s]
date	2012-04-26T12:57:49	Date and time of file creation	ontime1	937.78049069643	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	937.78051060438	Sum of GTIs [s]
			ontime3	937.78051060438	Sum of GTIs [s]
			ontime6	937.72066020966	Sum of GTIs [s]
			ontime7	937.76167035103	Sum of GTIs [s]
			l1events	22754	Number of level 1 events

2.1.4 Events

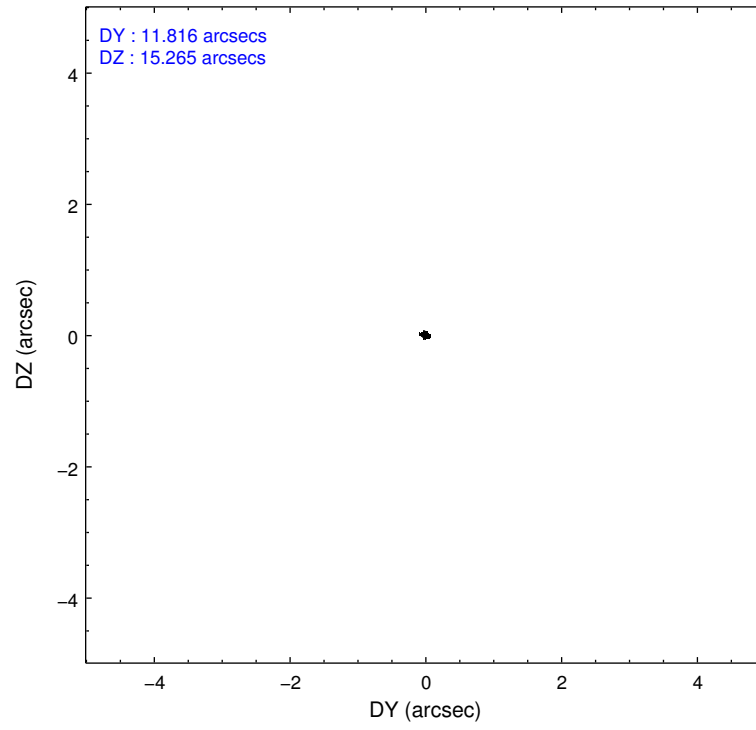
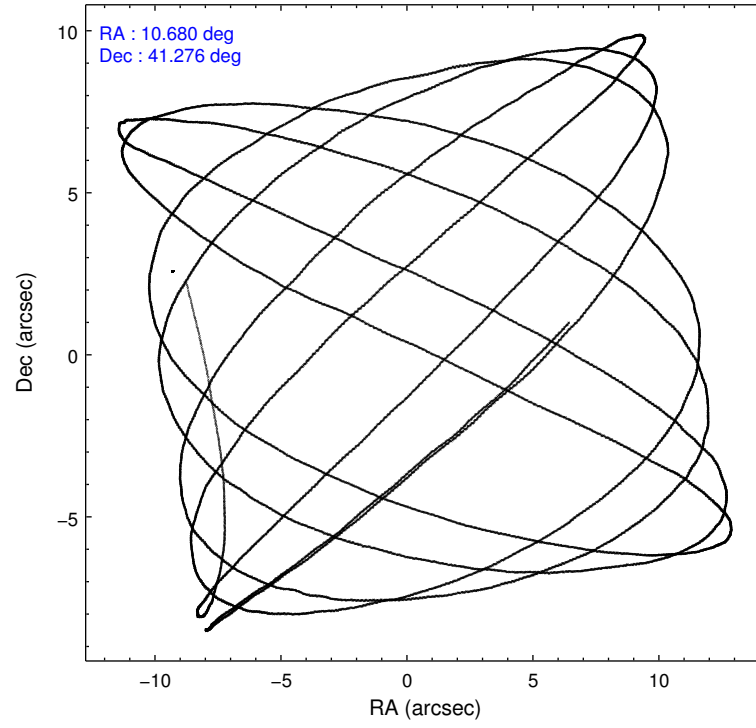
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	3665	3474	3947	4123	4160	3385
rejected events	3322	3056	3629	3590	3870	2385
rejected %	90%	87%	91%	87%	93%	70%

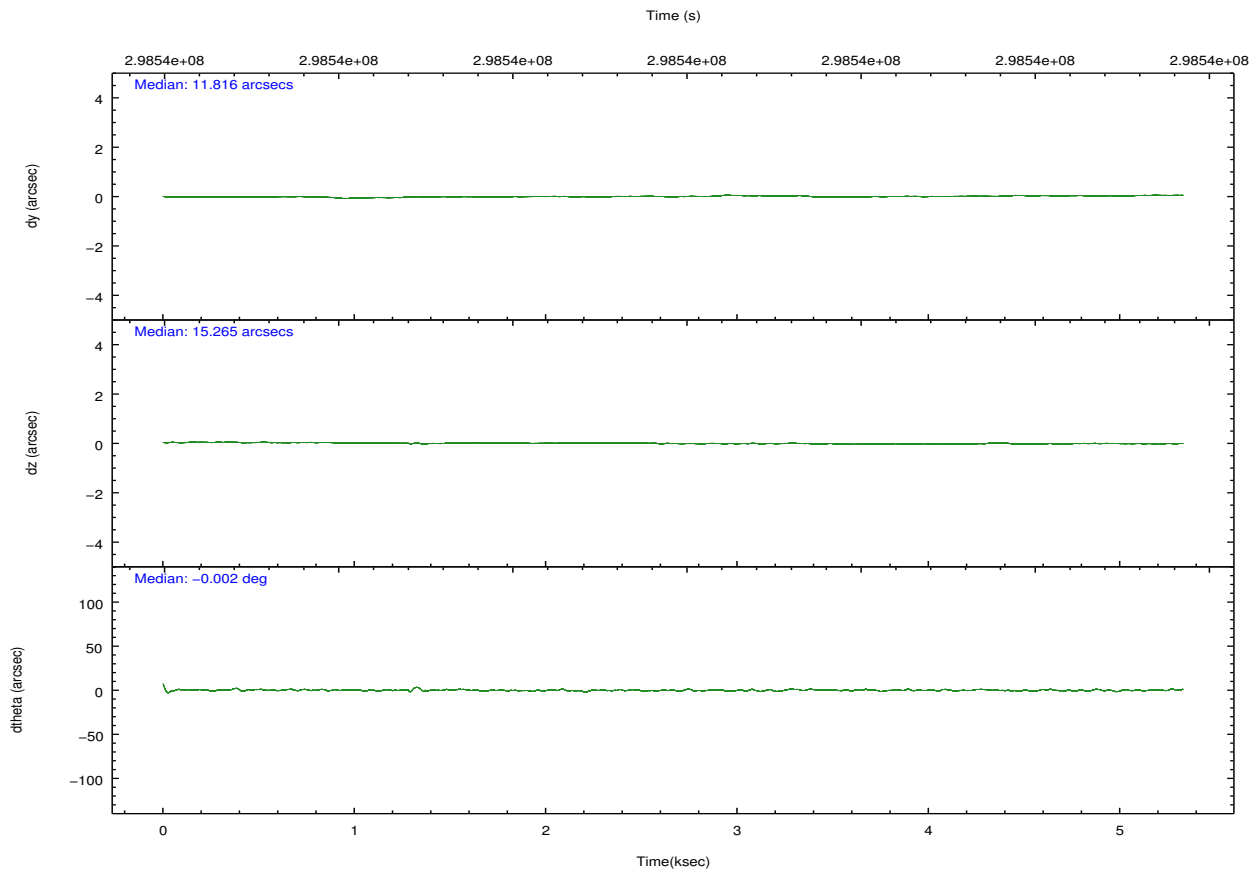
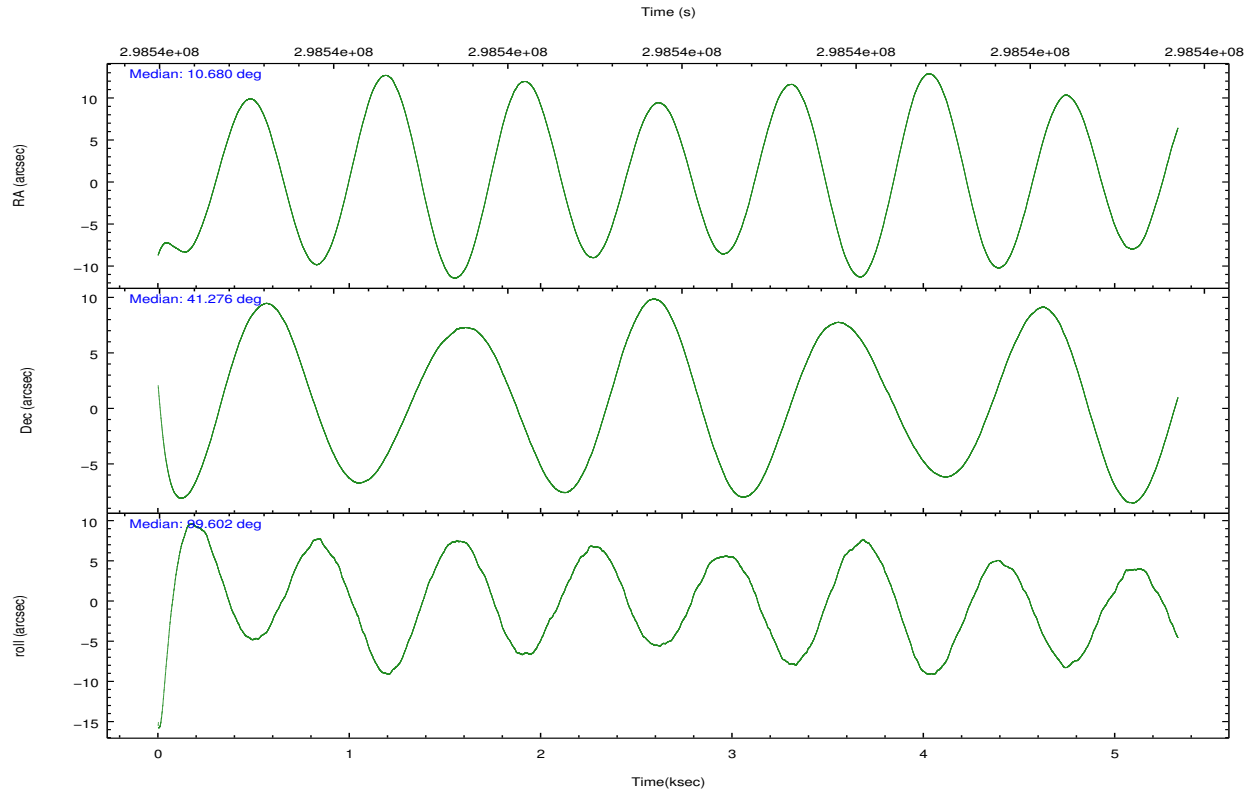
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	112	177	121	269	81	93
	3%	5%	3%	6%	1%	2%
grade 1 events	2	2	5	6	1	5
	0%	0%	0%	0%	0%	0%
grade 2 events	77	79	70	109	76	223
	2%	2%	1%	2%	1%	6%
grade 3 events	45	50	47	53	36	116
	1%	1%	1%	1%	0%	3%
grade 4 events	44	47	40	40	40	104
	1%	1%	1%	0%	0%	3%
grade 5 events	106	101	109	132	148	331
	2%	2%	2%	3%	3%	9%
grade 6 events	65	67	42	66	59	472
	1%	1%	1%	1%	1%	13%
grade 7 events	3214	2951	3513	3448	3719	2041
	87%	84%	89%	83%	89%	60%

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	10.703562	10.68003148087972	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.255064	41.2760838086832	Alternating exposures requested	Y	Y
[deg] Pointing Roll	99.380612	99.6047646674744	[s] Primary exposure time	0.600000	0.6
[s] Window start time (MET)	298512065.184000	298512065.184000	[s] Secondary exposure time	0.000000	3.2
[s] Window stop time (MET)	299116865.184000	299116865.184000	Duty cycle	5	5
[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)	298537578.184000	298536495.80974			
Observation start date	2007-06-18T07:05:13	2007-06-18T06:48:15			
[s] Observation end time (MET)	298542578.184000	298543478.62257			
Observation end date	2007-06-18T08:28:33	2007-06-18T08:44:38			
Read mode	TIMED	TIMED			

2.3 Aspect



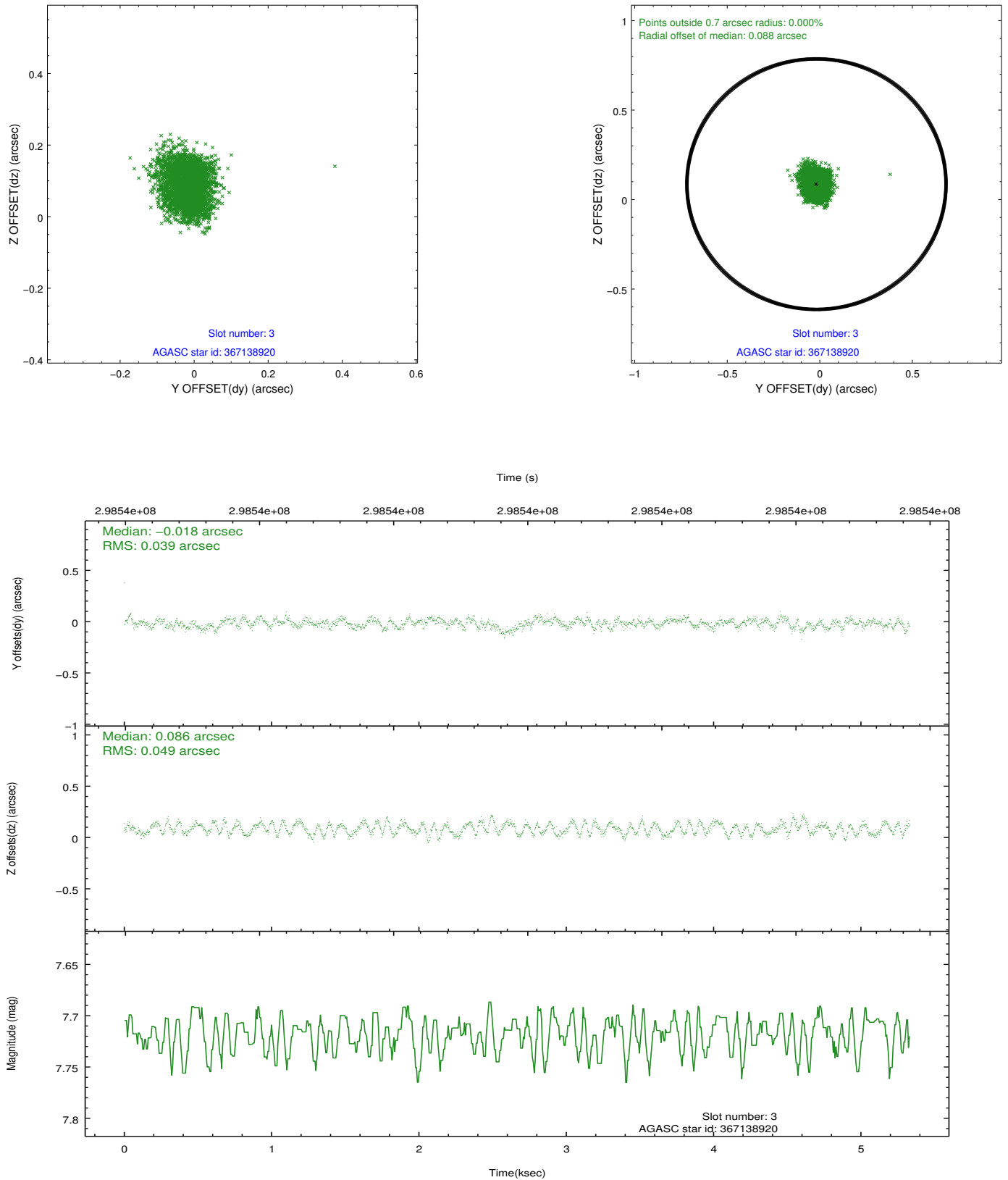


Slot Statistics

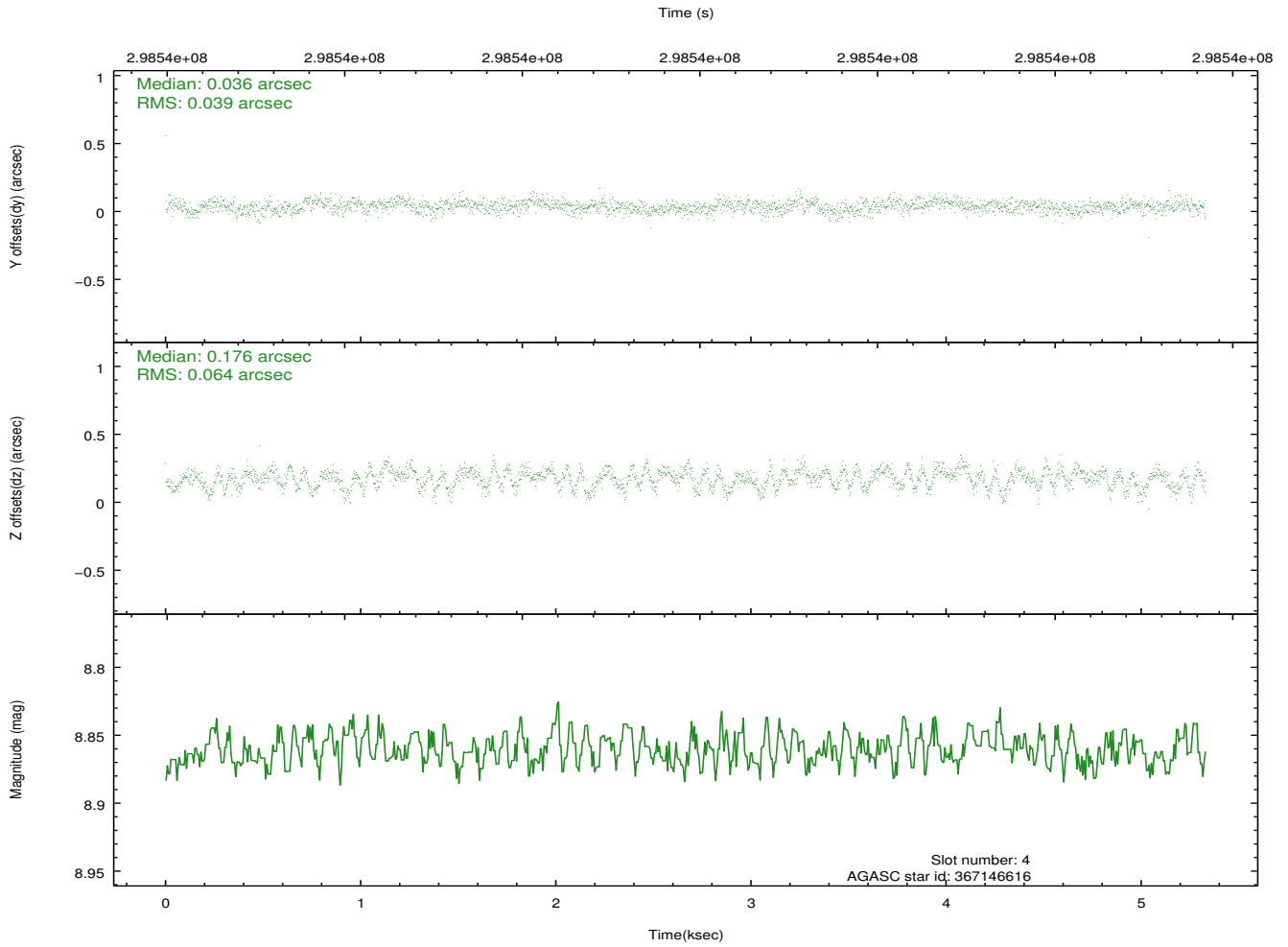
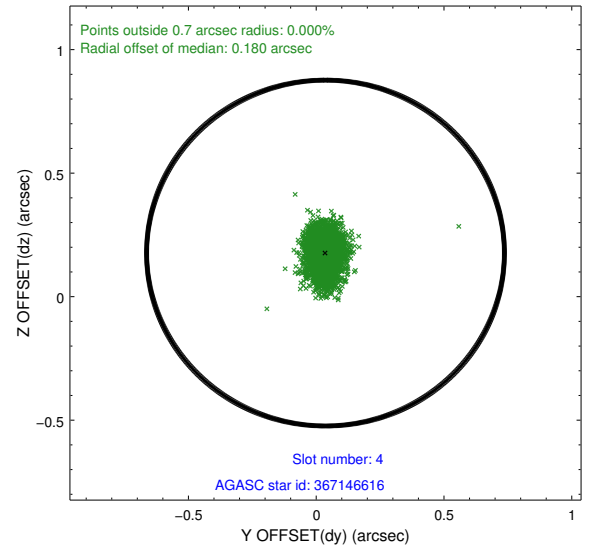
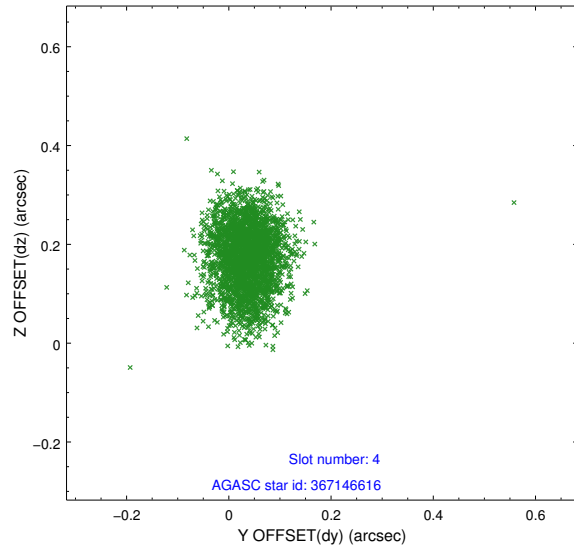
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	1300	-0.067	-0.086	0.009	0.015	0.000000	0.000000	-766.52	-845.32
1	FID	ACIS-I-4	7.16	1300	0.172	0.066	0.006	0.011	0.000000	0.000000	2147.27	1060.42
2	FID	ACIS-I-5	7.23	1299	-0.206	0.088	0.009	0.014	0.000000	0.000000	-1819.02	1059.60
3	GUIDE	367138920	7.72	2601	-0.018	0.086	0.067	0.102	11.513485	40.808909	-1934.16	-1918.00
4	GUIDE	367146616	8.86	2601	0.036	0.176	0.079	0.129	11.418645	41.190163	-538.42	-1875.21
5	GUIDE	367663272	9.28	2598	-0.029	-0.042	0.084	0.135	10.656279	41.699429	1599.27	-135.49
6	GUIDE	367674552	8.84	2599	-0.095	0.029	0.062	0.101	11.016238	41.570845	986.96	-1016.55
7	GUIDE	367148872	7.21	2600	0.109	-0.244	0.062	0.102	10.505940	40.688258	-1924.08	864.11

2.4 Star Slots

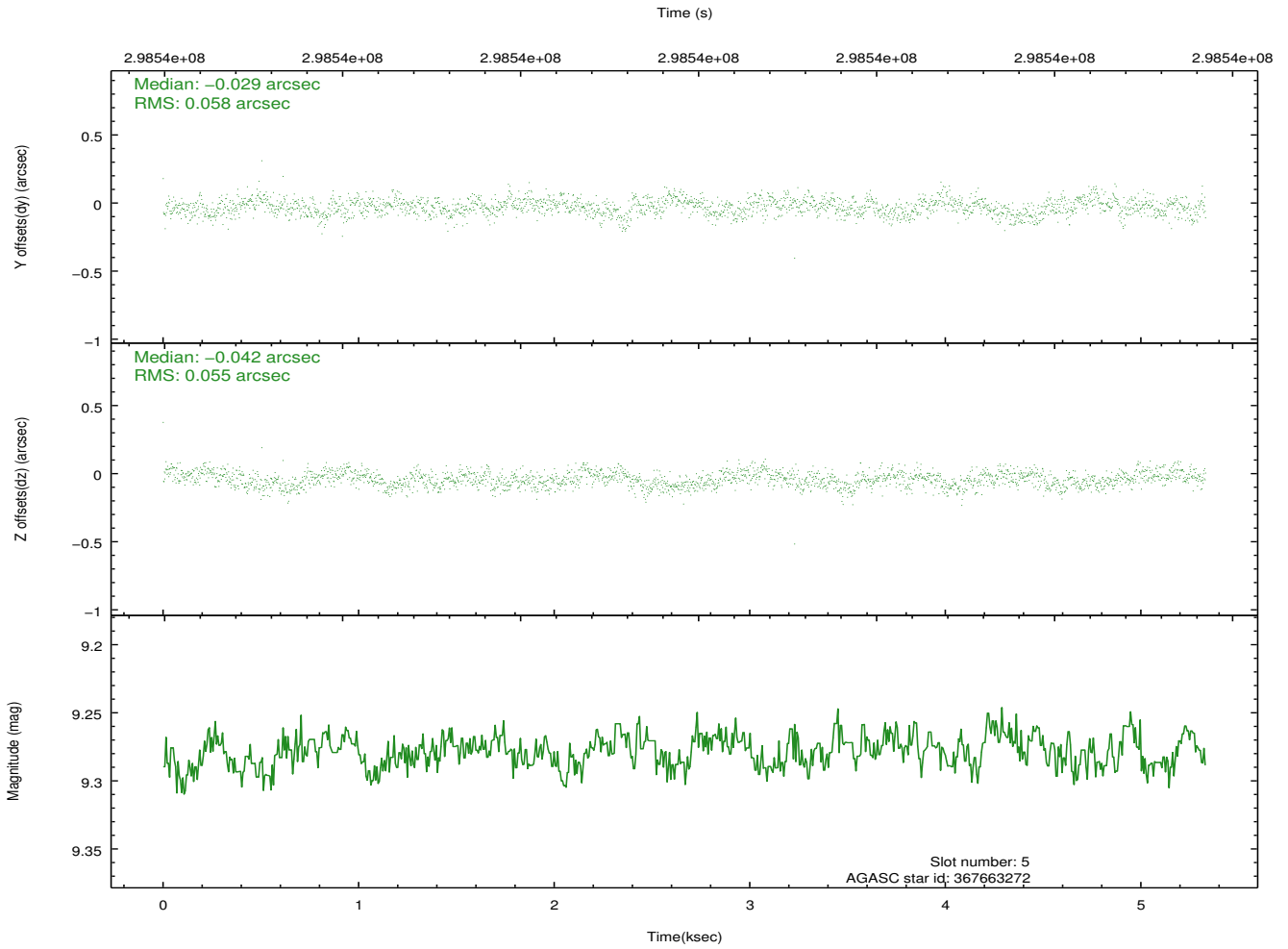
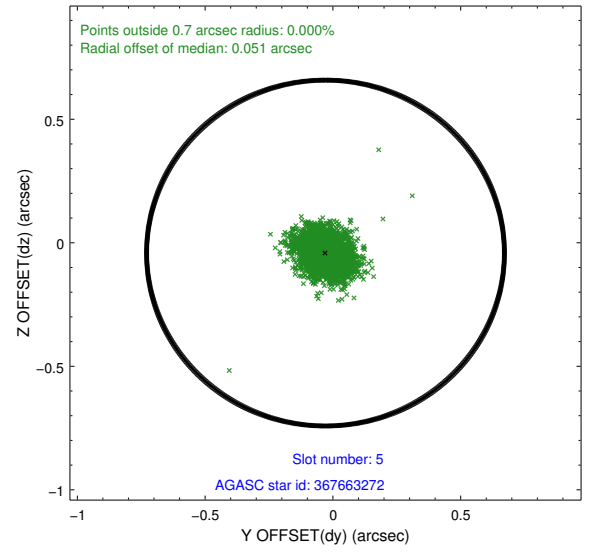
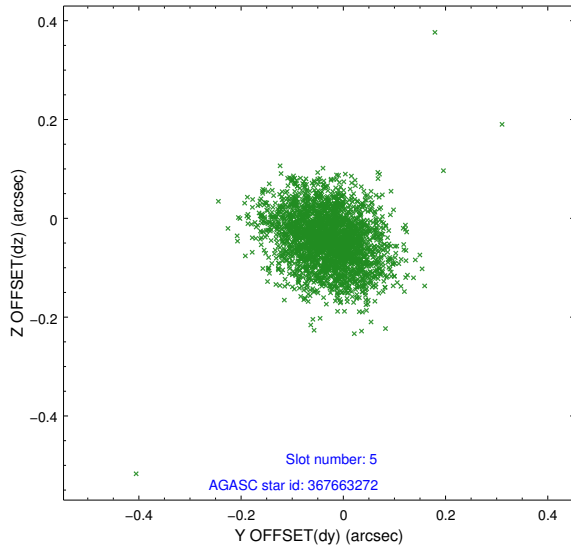
2.4.1 Slot 3



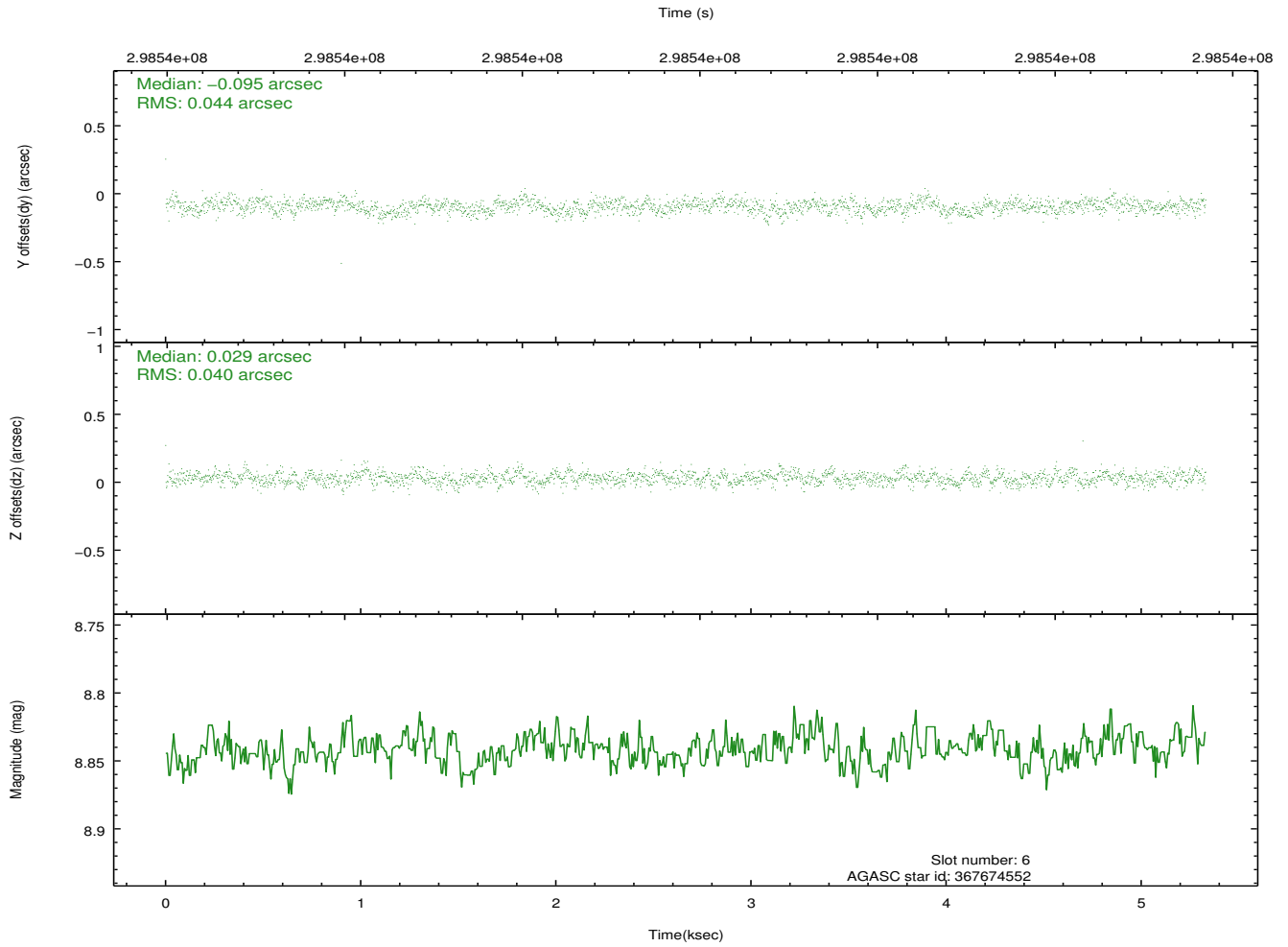
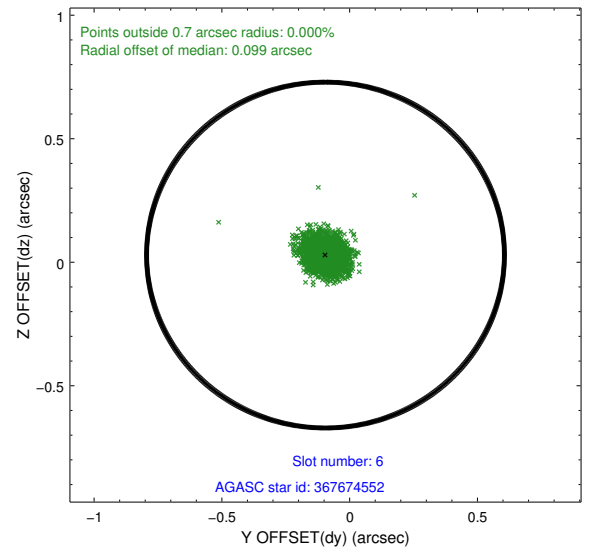
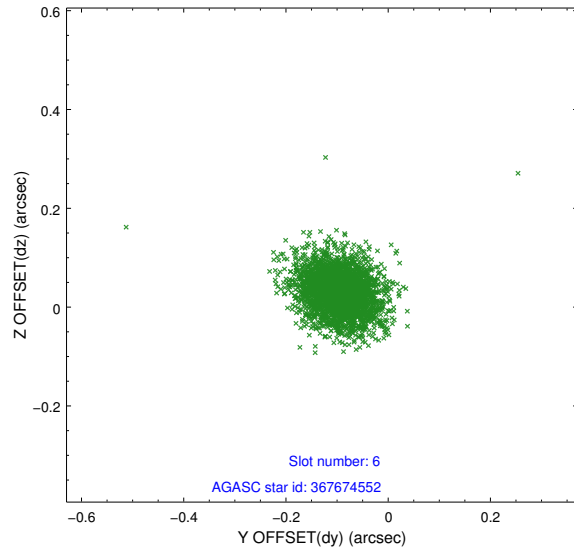
2.4.2 Slot 4



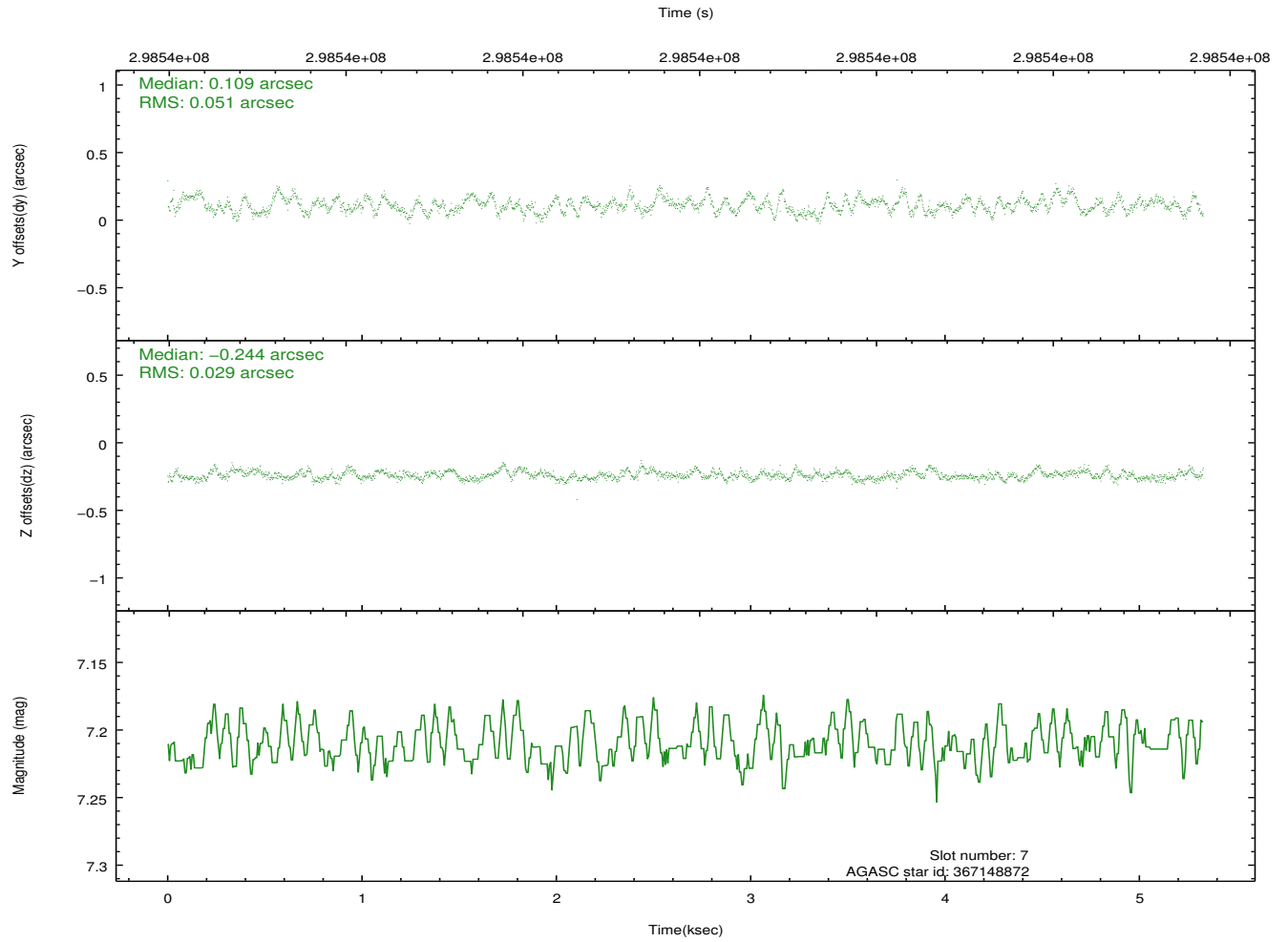
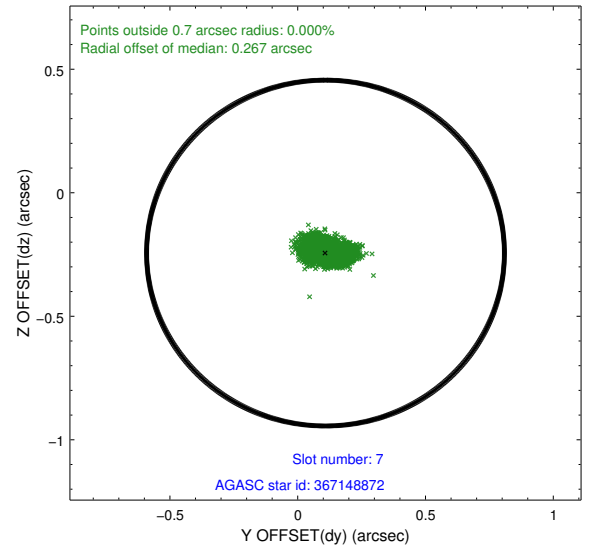
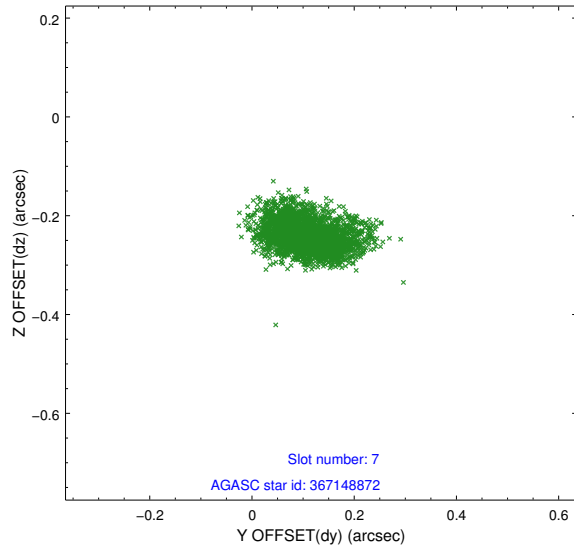
2.4.3 Slot 5



2.4.4 Slot 6

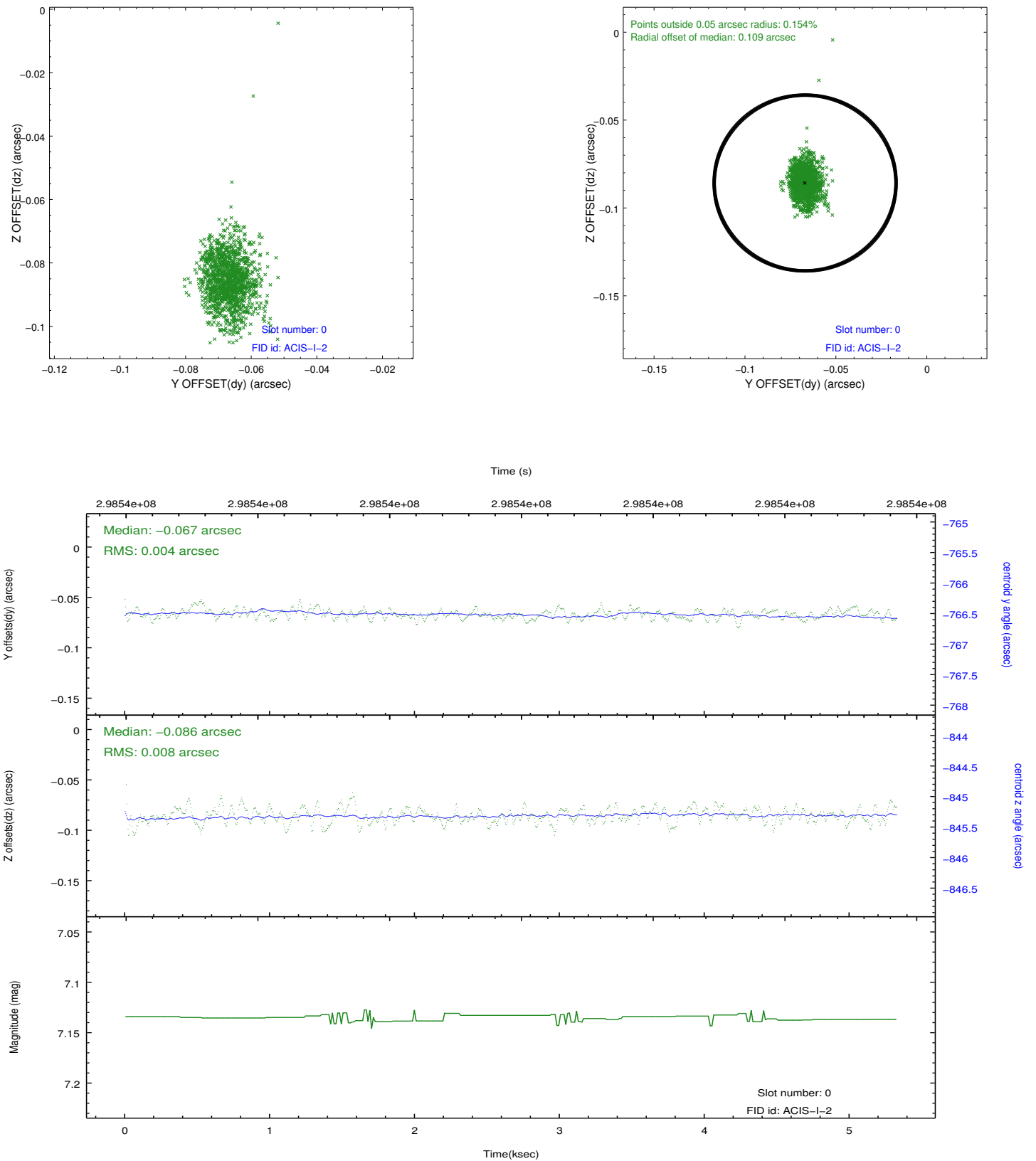


2.4.5 Slot 7

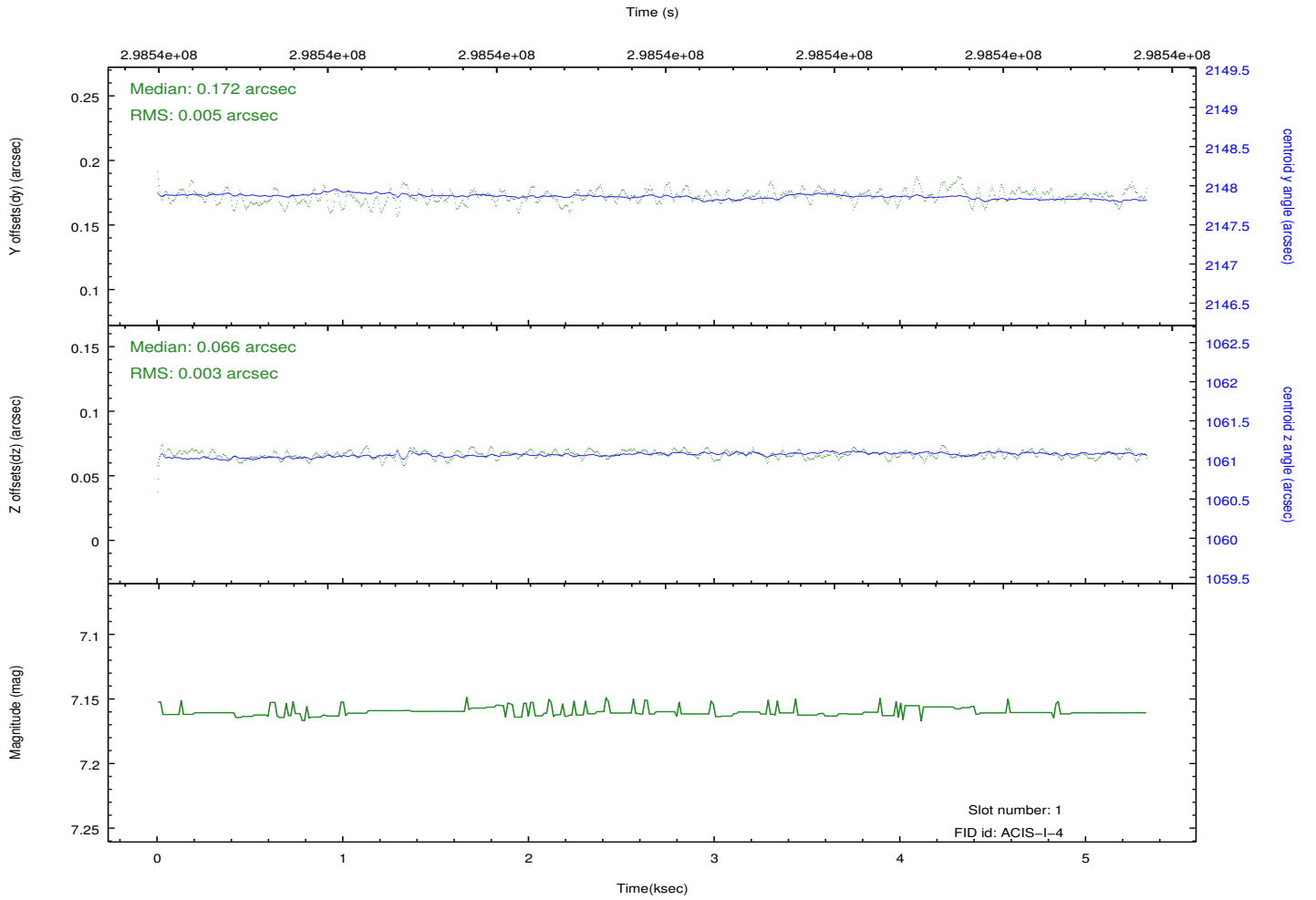
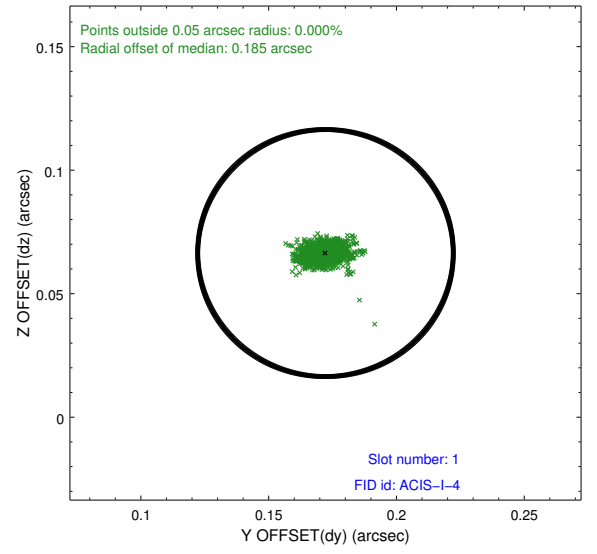
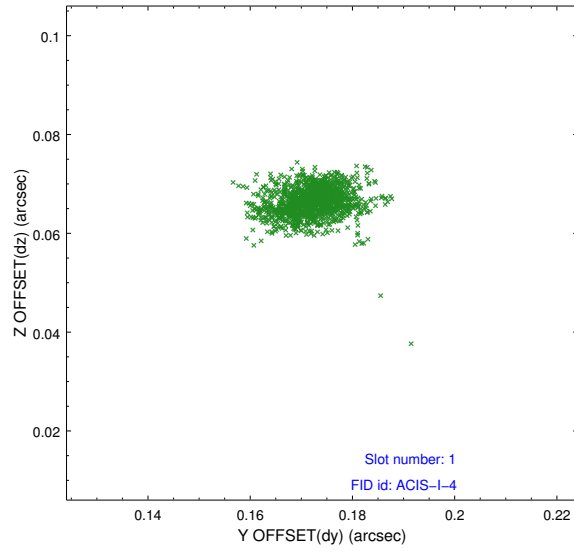


2.5 FID Slots

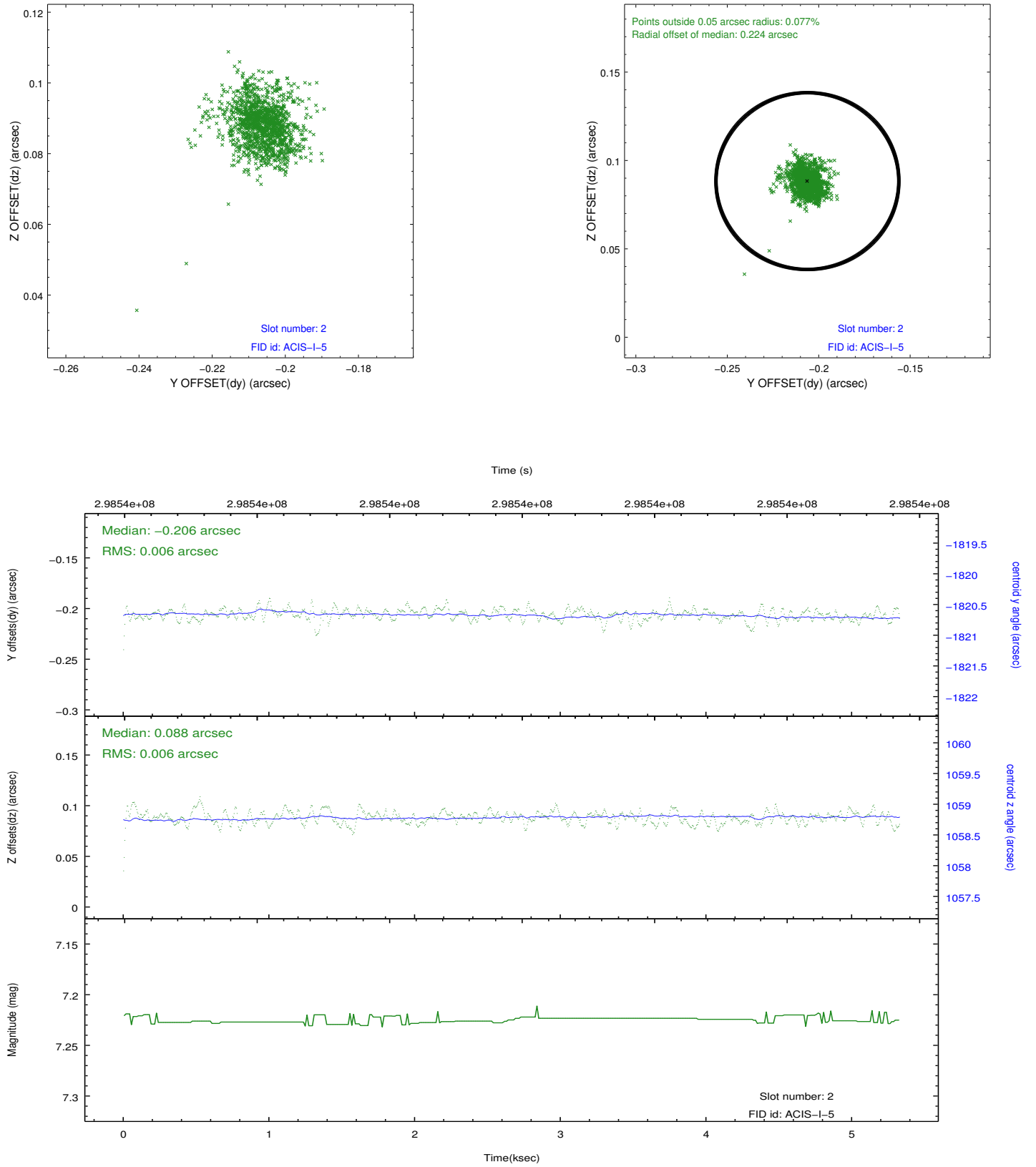
2.5.1 Slot 0



2.5.2 Slot 1



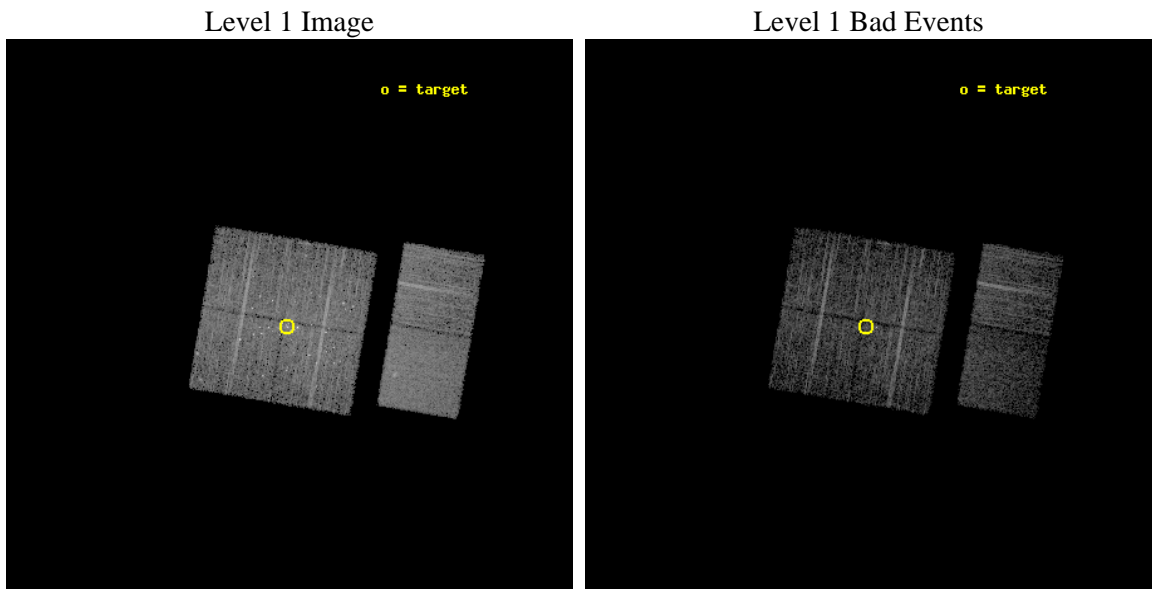
2.5.3 Slot 2



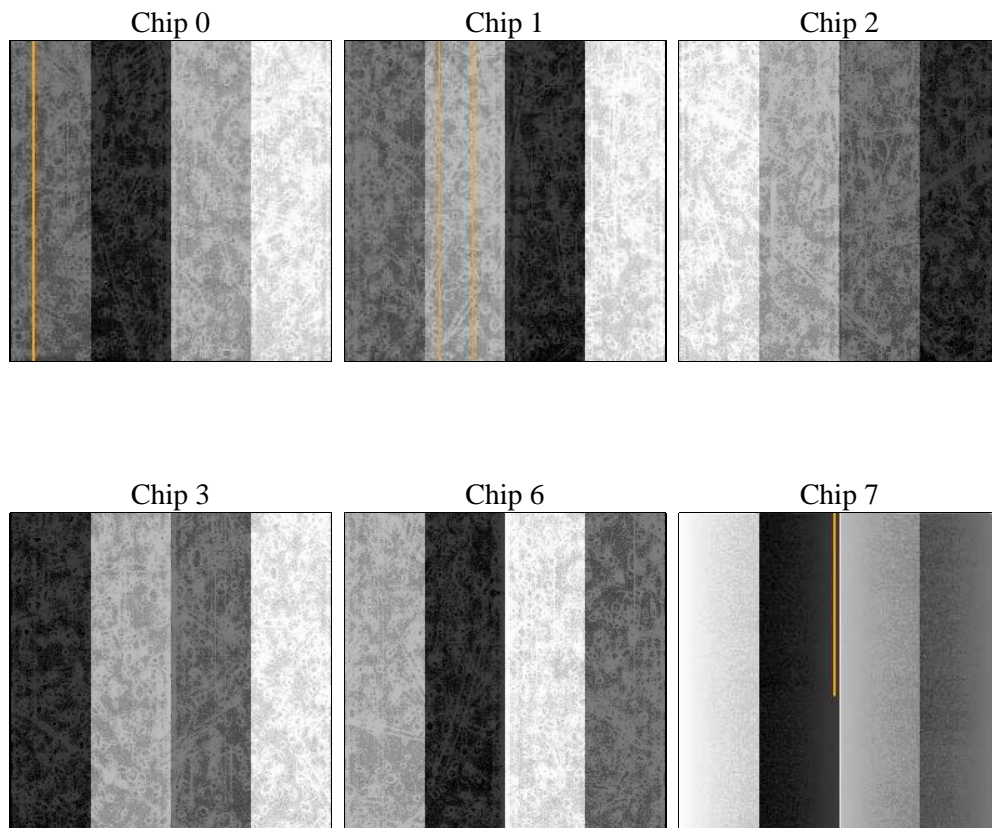
3 OBI Secondary

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	4009.363319993	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4009.3633596897	Sum of GTIs [s]
date	2012-04-26T12:58:58	Date and time of file creation	ontime1	4012.6036131978	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4012.604290843	Sum of GTIs [s]
			ontime3	4009.363319993	Sum of GTIs [s]
			ontime6	4012.6039913297	Sum of GTIs [s]
			ontime7	4012.603453517	Sum of GTIs [s]
			l1events	204398	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	32135	32170	34574	36216	33020	36283	grade 0 events	2320	3704	2595	4798	1190	1625
rejected events	27500	25579	29686	28460	29640	19592		7%	11%	7%	13%	3%	4%
rejected %	85%	79%	85%	78%	89%	53%	grade 1 events	32	58	32	186	14	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	909	1154	934	1164	773	3341
								2%	3%	2%	3%	2%	9%
							grade 3 events	426	460	362	509	339	1543
								1%	1%	1%	1%	1%	4%
							grade 4 events	374	439	374	513	344	1642
								1%	1%	1%	1%	1%	4%
							grade 5 events	1184	1256	1020	1399	1353	3845
								3%	3%	2%	3%	4%	10%
							grade 6 events	614	840	634	778	737	8566
								1%	2%	1%	2%	2%	23%
							grade 7 events	26276	24259	28623	26869	28270	15673
								81%	75%	82%	74%	85%	43%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.94695788

A.2 Comments

Coordinated with HST. Window constraint met.