

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8186 - L2 Version 2
Chandra X-Ray Center

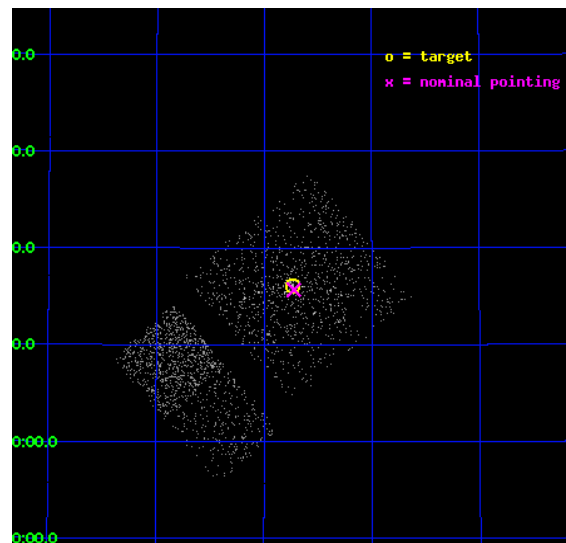
L2 Processing Date : May 4 2012

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1 Front

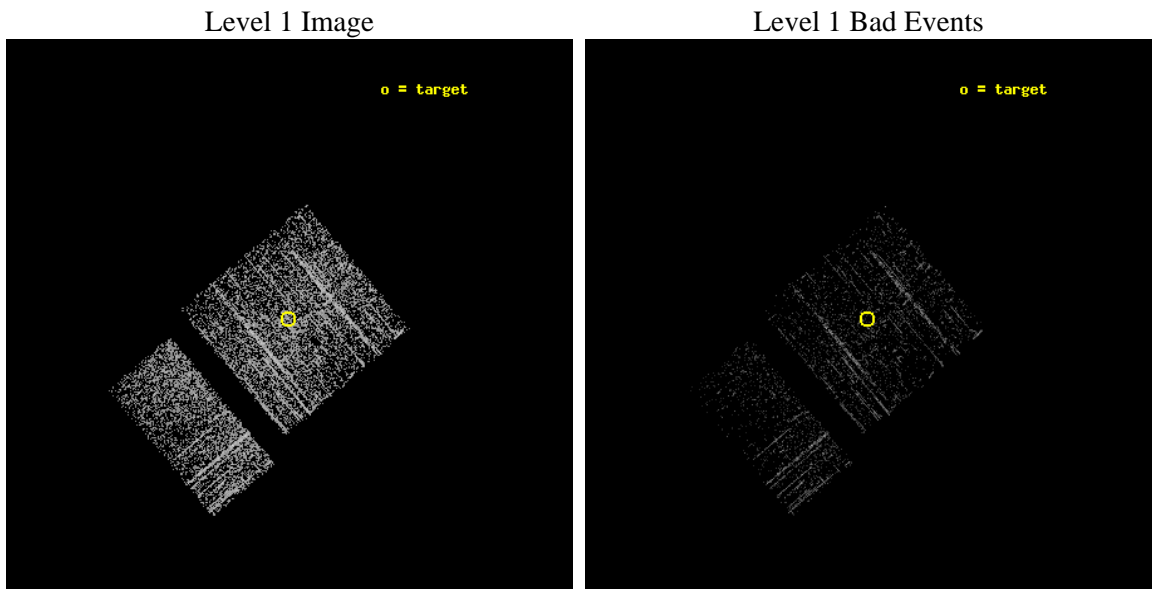
seq_num	600623	Sequence number
obs_id	8186	Observation id
title	Continued M31 Monitoring for Black Hole X-ray Nova	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.680740121862	Nominal RA [deg]
dec_nom	41.261470934973	Nominal Dec [deg]
roll_nom	229.88972983114	Nominal Roll [deg]
revision	2	Processing version of data
ontime	982.88704121113	Sum of GTIs [s]
livetime	154.73012906854	Livetime [s]
ontime0	982.76392120123	Sum of GTIs [s]
ontime1	982.80496120453	Sum of GTIs [s]
ontime2	982.84600120783	Sum of GTIs [s]
ontime3	982.88704121113	Sum of GTIs [s]
ontime6	982.96912121773	Sum of GTIs [s]
ontime7	982.92807132006	Sum of GTIs [s]
l2events	2700	Number of level 2 events



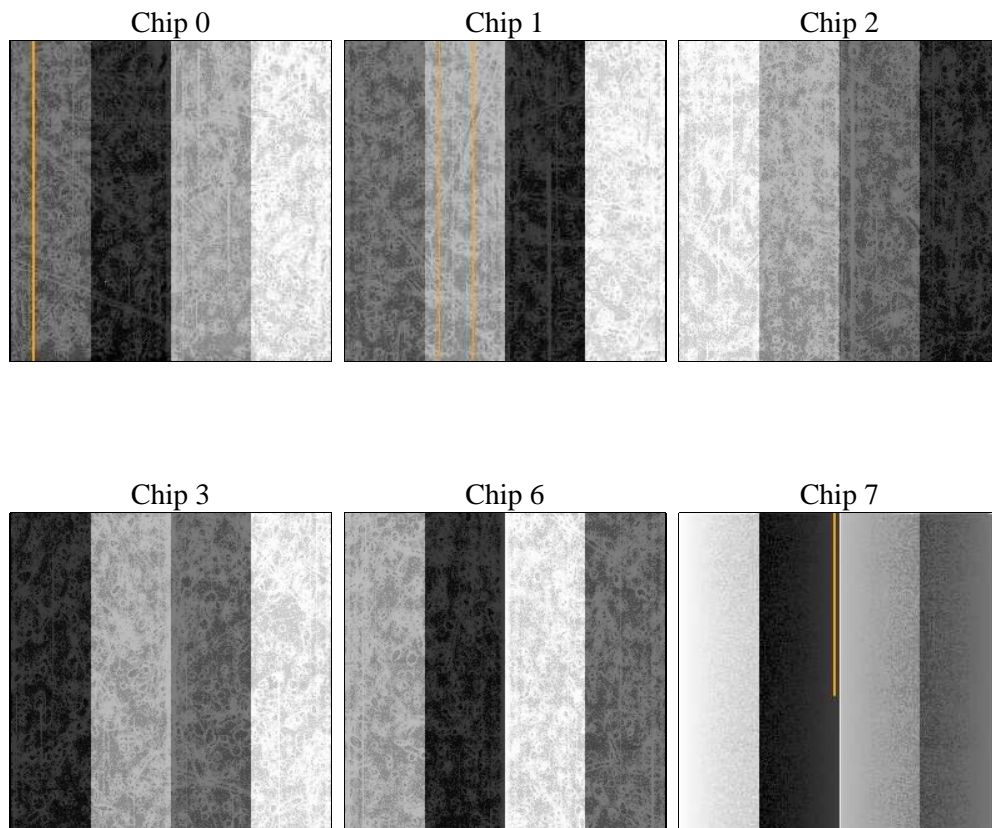
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	982.88704121113	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	982.76392120123	Sum of GTIs [s]
date	2012-05-04T00:51:40	Date and time of file creation	ontime1	982.80496120453	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	982.84600120783	Sum of GTIs [s]
			ontime3	982.88704121113	Sum of GTIs [s]
			ontime6	982.96912121773	Sum of GTIs [s]
			ontime7	982.92807132006	Sum of GTIs [s]
			l1events	29883	Number of level 1 events

2.1.4 Events

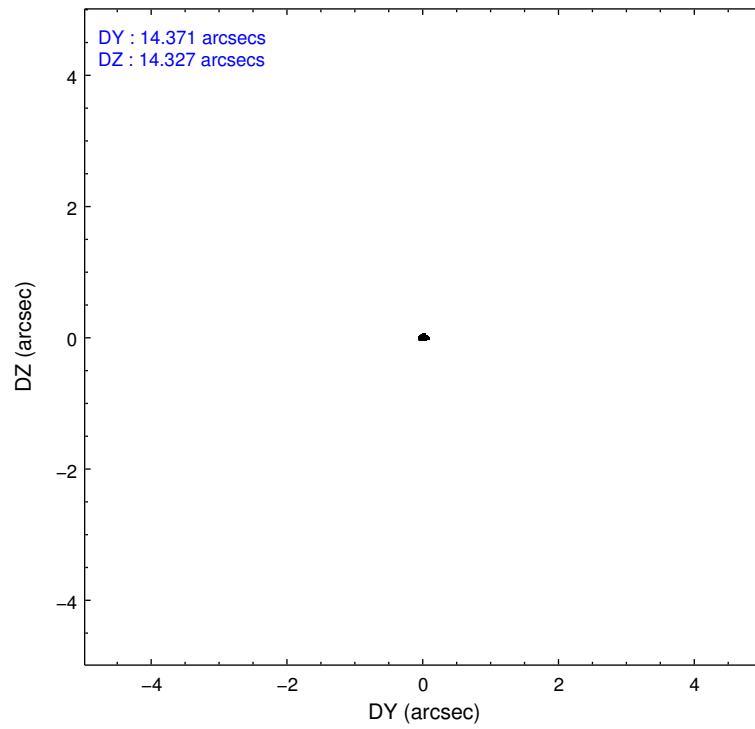
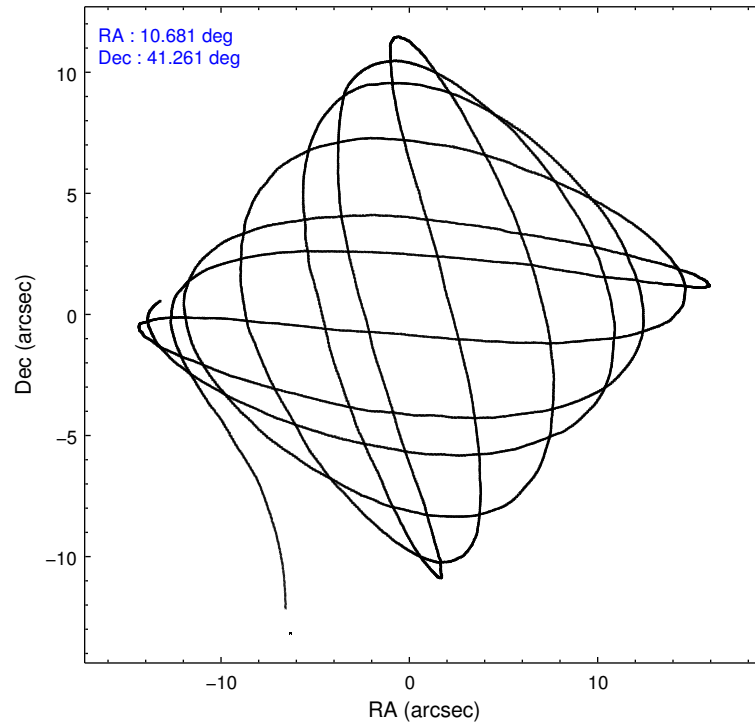
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	4845	5109	5752	4448	5823	3906
rejected events	4350	4739	5379	3903	5478	2889
rejected %	89%	92%	93%	87%	94%	73%

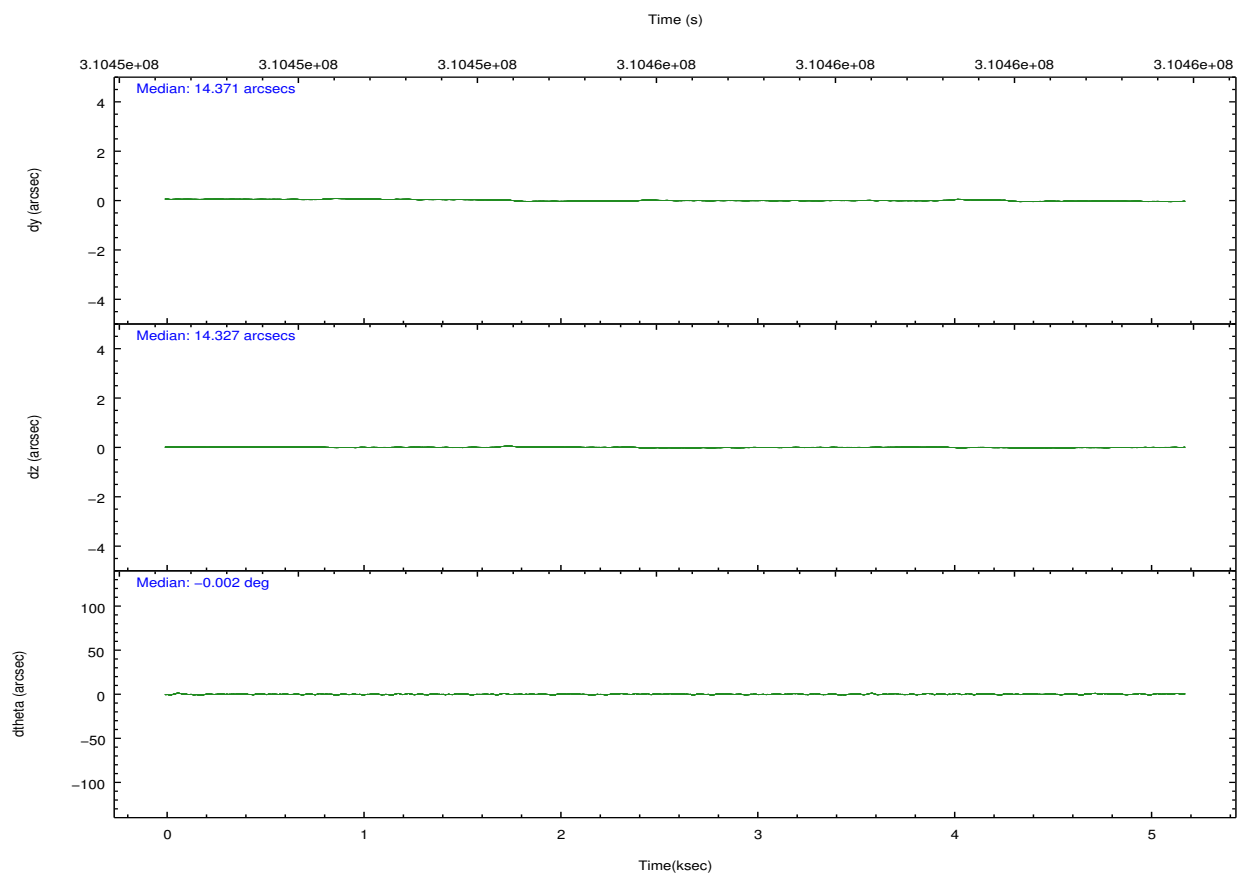
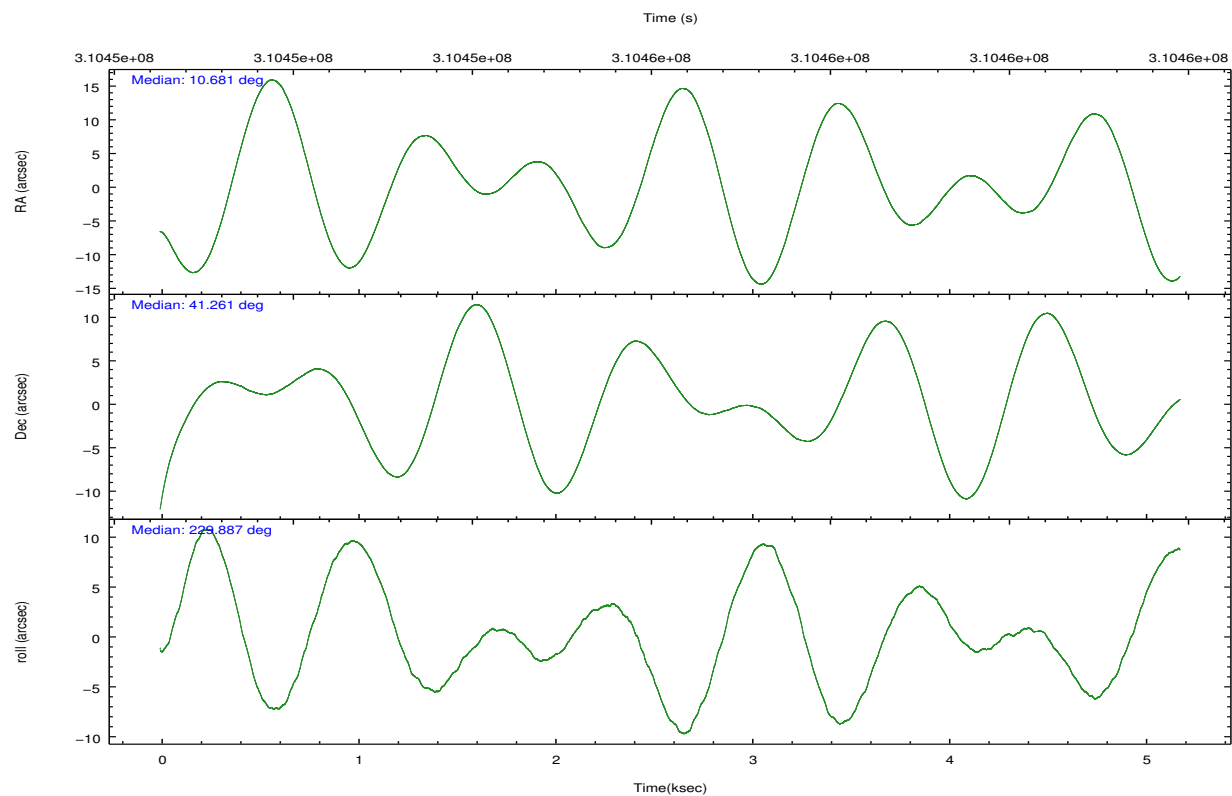
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	229	140	185	290	100	122
	4%	2%	3%	6%	1%	3%
grade 1 events	1	1	3	5	1	2
	0%	0%	0%	0%	0%	0%
grade 2 events	117	100	98	108	100	270
	2%	1%	1%	2%	1%	6%
grade 3 events	73	73	34	58	67	121
	1%	1%	0%	1%	1%	3%
grade 4 events	66	66	58	76	59	99
	1%	1%	1%	1%	1%	2%
grade 5 events	127	173	137	172	188	328
	2%	3%	2%	3%	3%	8%
grade 6 events	82	82	75	85	102	629
	1%	1%	1%	1%	1%	16%
grade 7 events	4150	4474	5162	3654	5206	2335
	85%	87%	89%	82%	89%	59%

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	10.687115	10.68074012186234	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.288614	41.26147093497262	Alternating exposures requested	Y	Y
[deg] Pointing Roll	229.676834	229.8897298311357	[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)	310452682.184000	310450994.90729			
Observation start date	2007-11-03T04:50:17	2007-11-03T04:23:14			
[s] Observation end time (MET)	310457682.184000	310458470.23265			
Observation end date	2007-11-03T06:13:37	2007-11-03T06:27:50			
Read mode	TIMED	TIMED			

2.3 Aspect



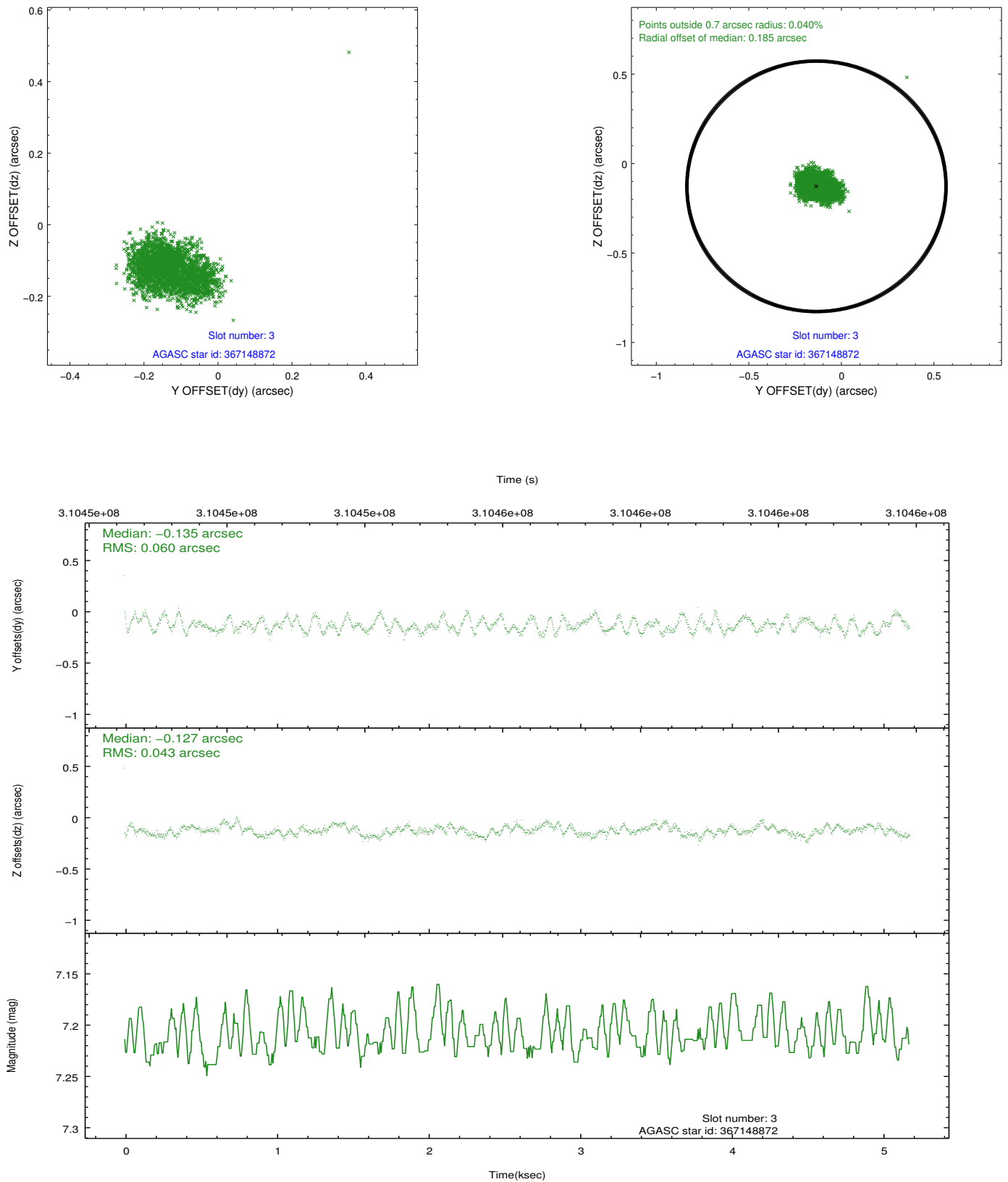


Slot Statistics

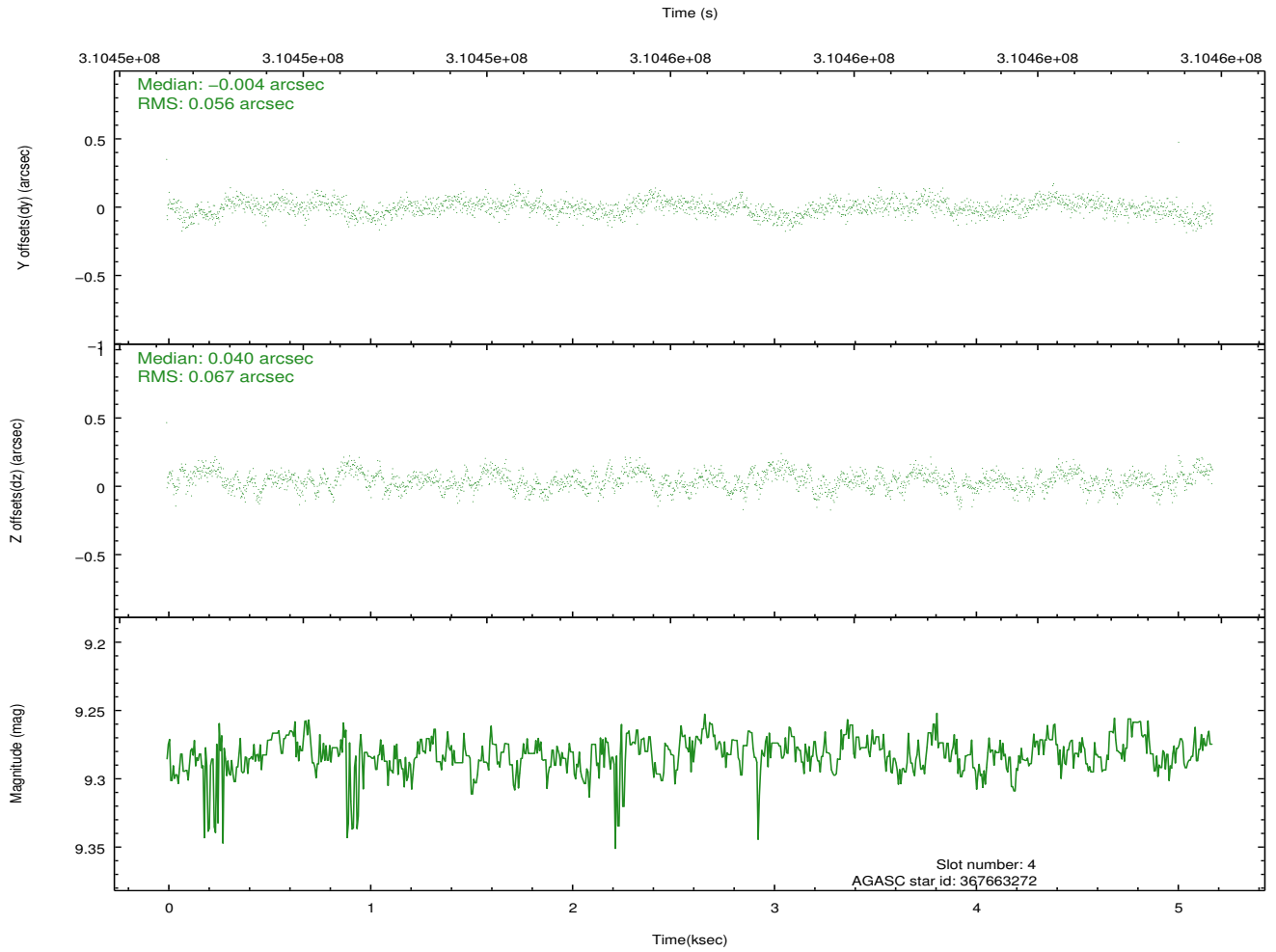
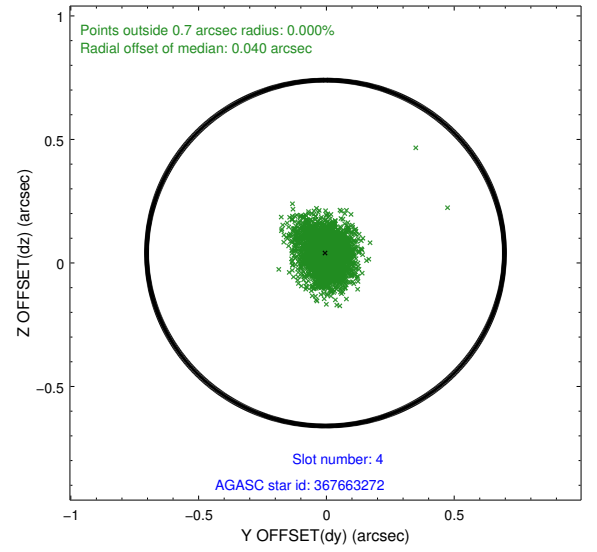
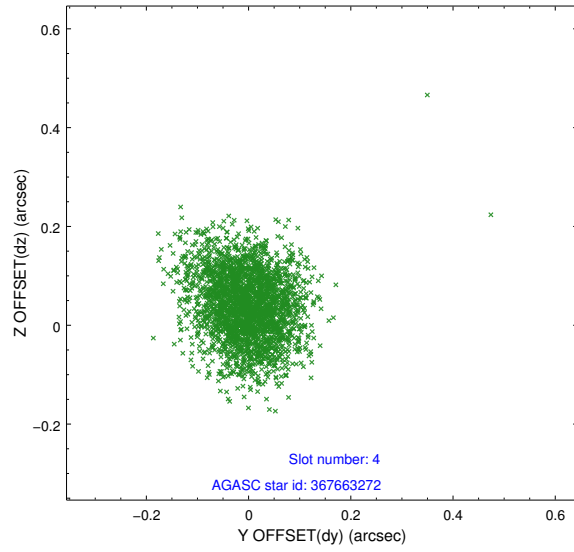
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1264	0.030	0.012	0.006	0.010	0.000000	0.000000	925.13	-837.89
1	FID	ACIS-I-5	7.23	1264	-0.225	0.034	0.006	0.010	0.000000	0.000000	-1822.60	1059.01
2	FID	ACIS-I-6	7.24	1264	0.105	0.025	0.007	0.012	0.000000	0.000000	389.46	1704.85
3	GUIDE	367148872	7.21	2528	-0.135	-0.127	0.078	0.120	10.505940	40.688258	1967.49	1021.78
4	GUIDE	367663272	9.28	2528	-0.004	0.040	0.092	0.152	10.656279	41.699429	-1072.69	-1019.72
5	GUIDE	367145856	9.27	2526	0.191	0.134	0.083	0.135	10.744946	40.402085	2330.32	2186.29
6	GUIDE	367657896	9.00	2524	-0.007	0.044	0.075	0.122	11.197765	41.313576	-964.45	993.20
7	GUIDE	367657272	8.43	2525	-0.050	-0.090	0.065	0.108	11.834471	41.298907	-2052.68	2329.22

2.4 Star Slots

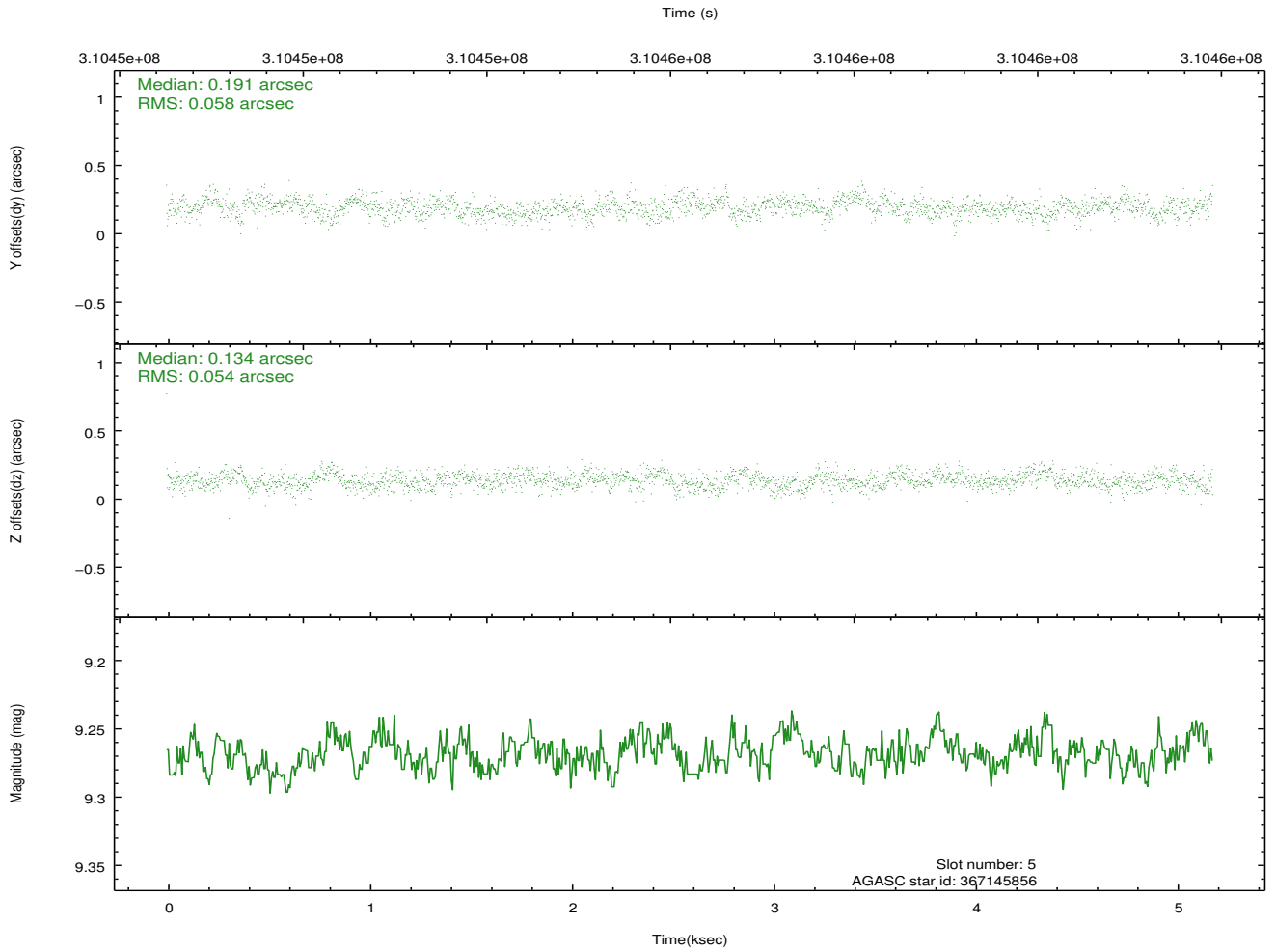
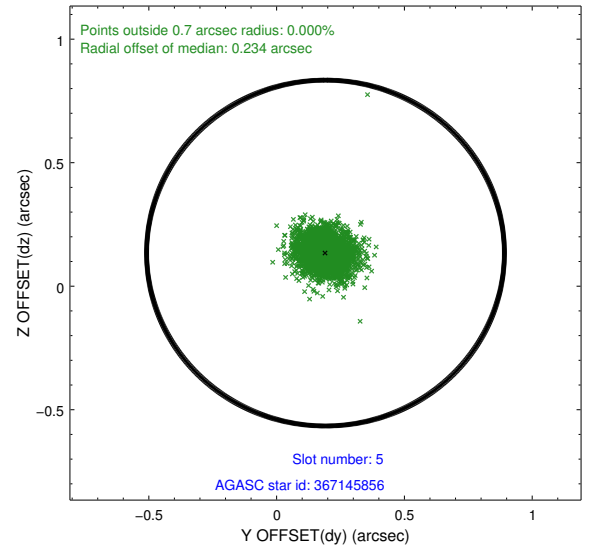
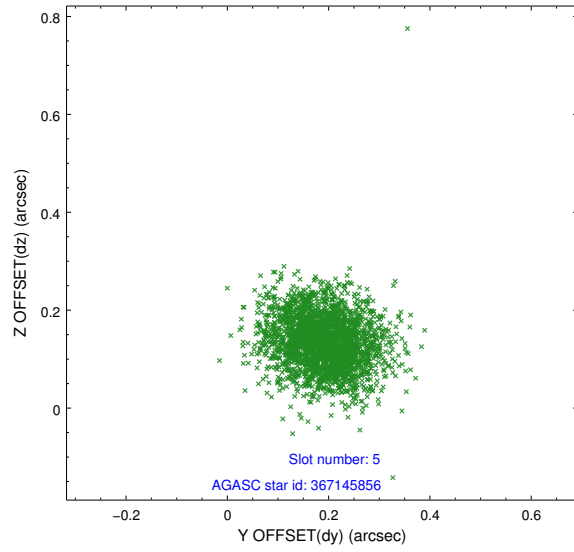
2.4.1 Slot 3



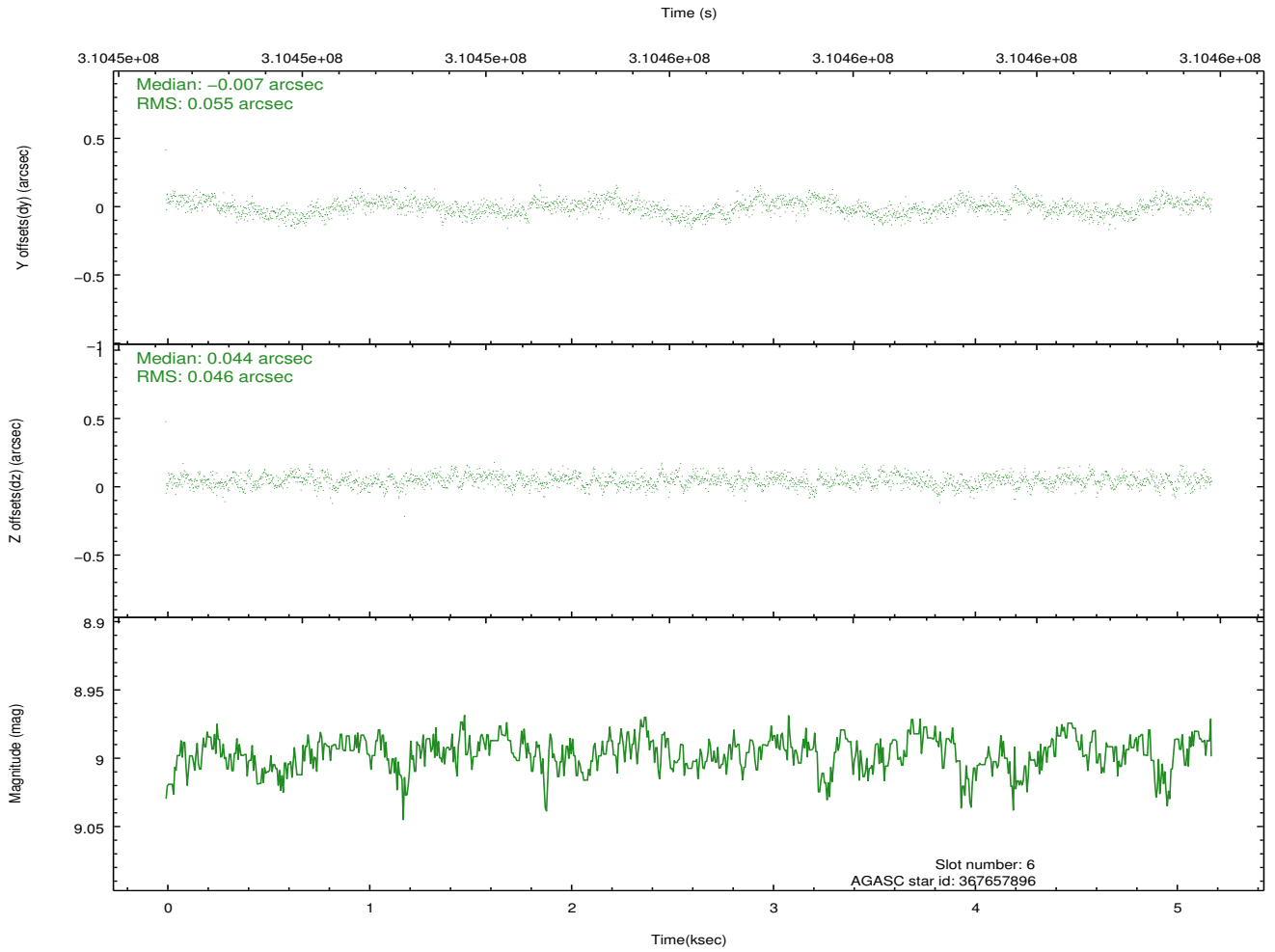
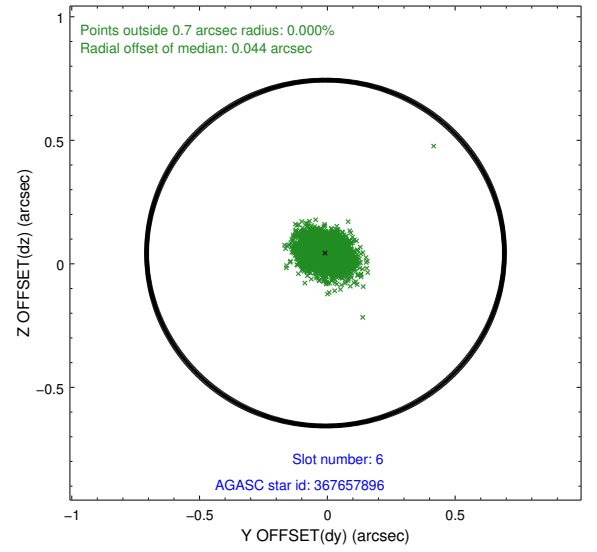
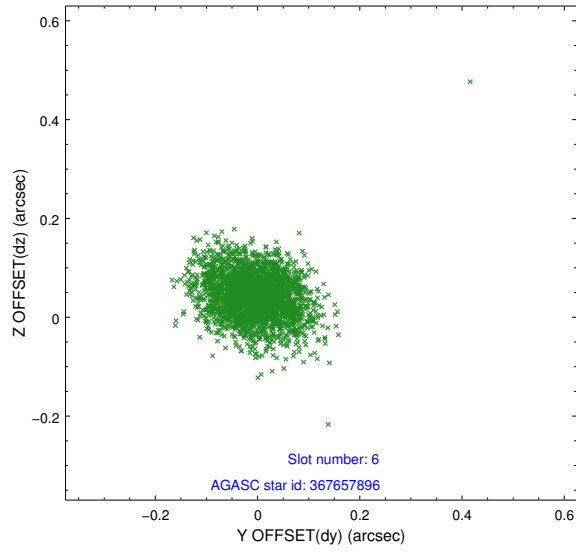
2.4.2 Slot 4



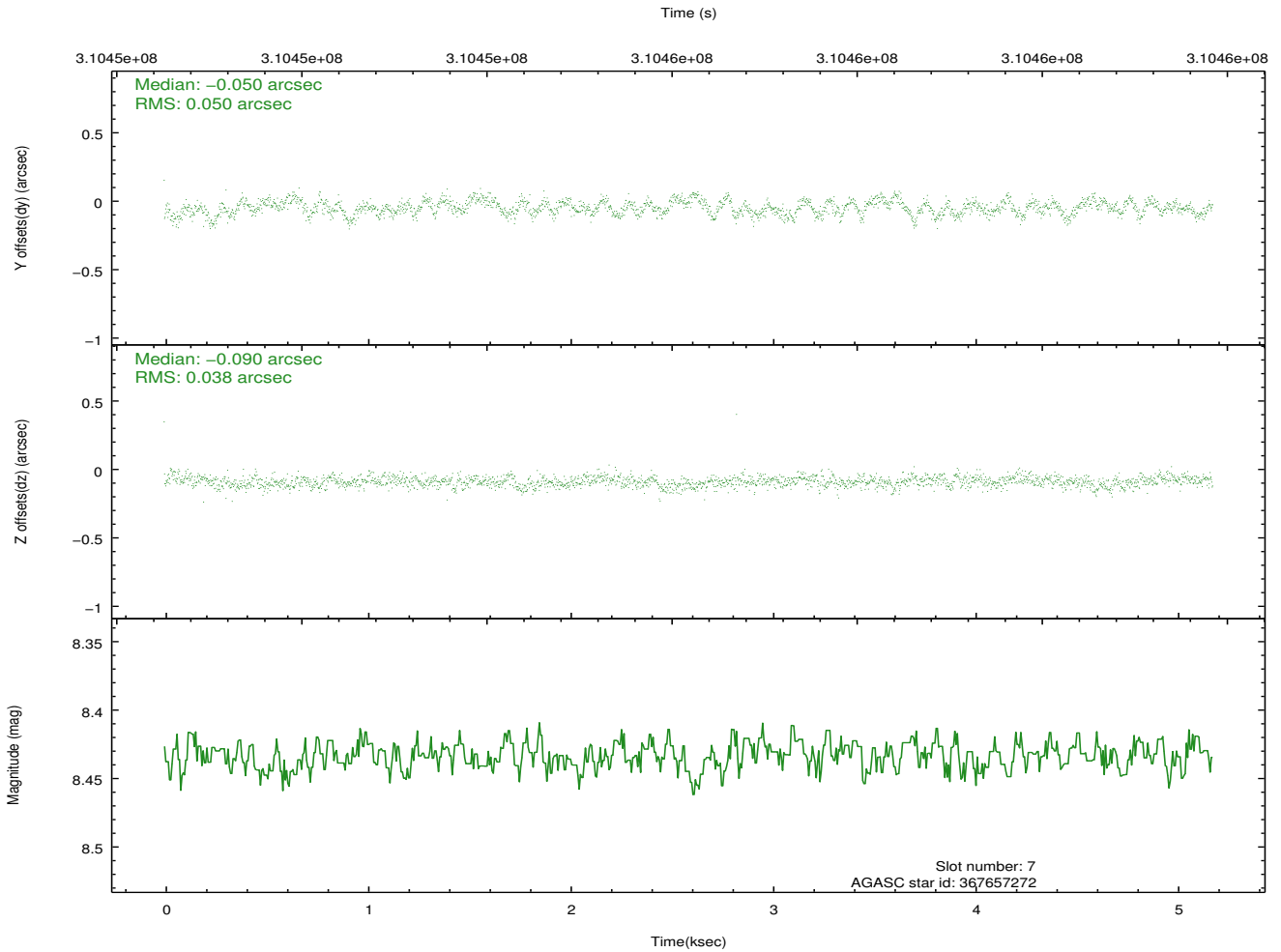
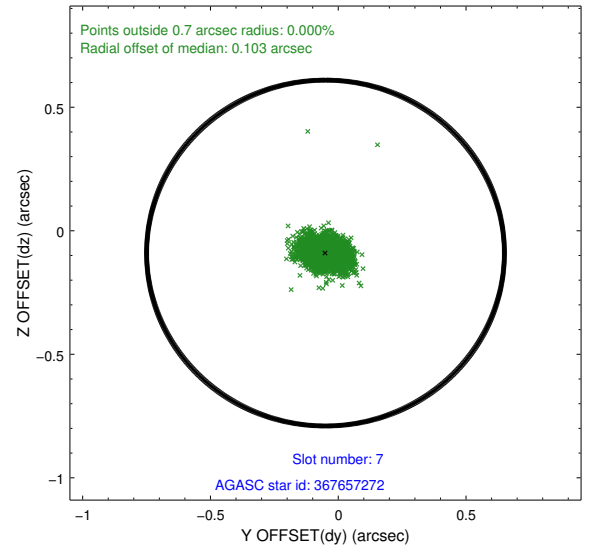
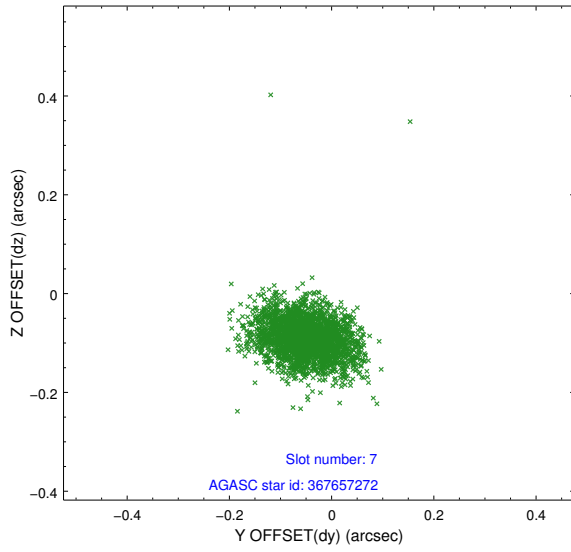
2.4.3 Slot 5



2.4.4 Slot 6

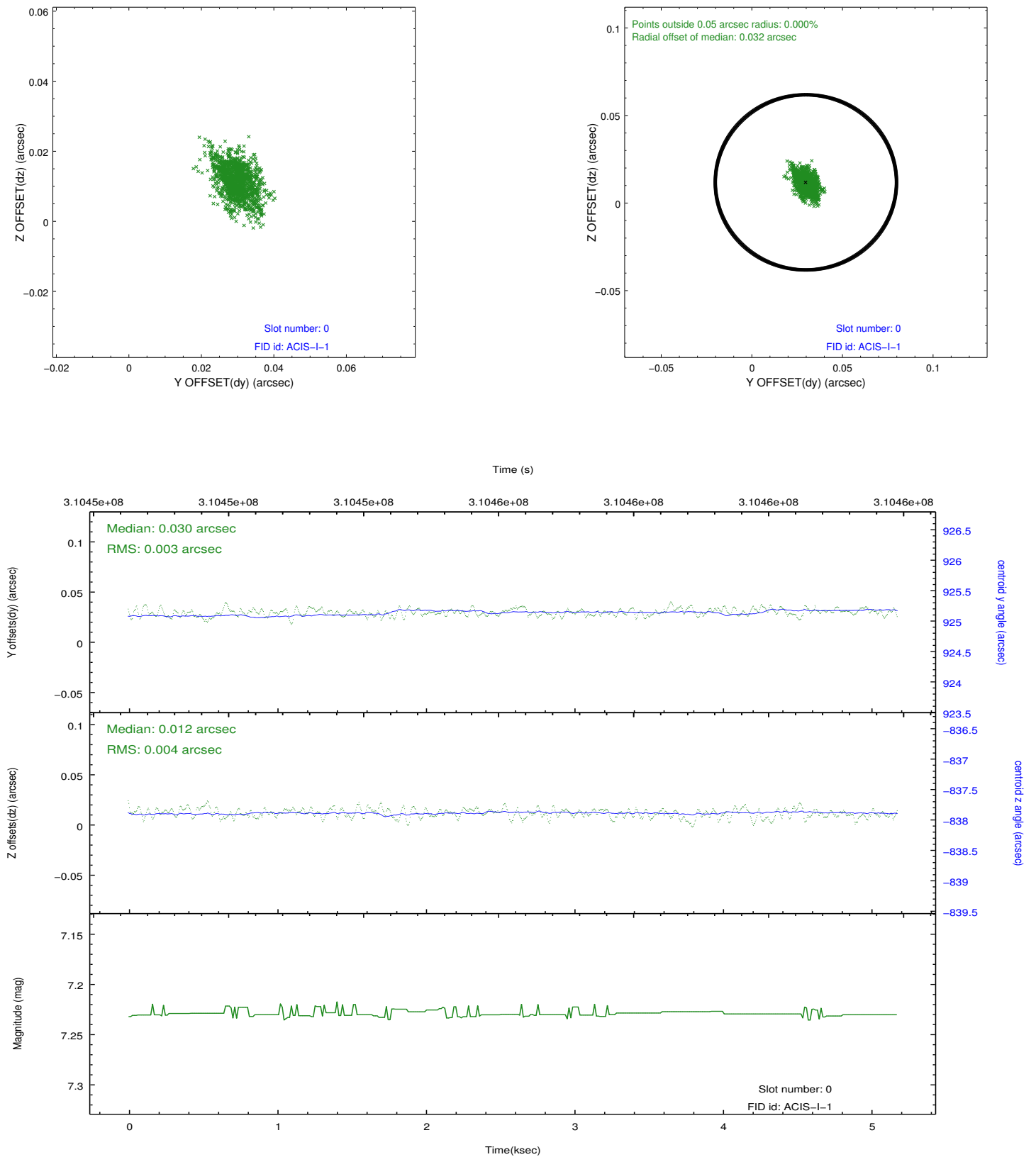


2.4.5 Slot 7

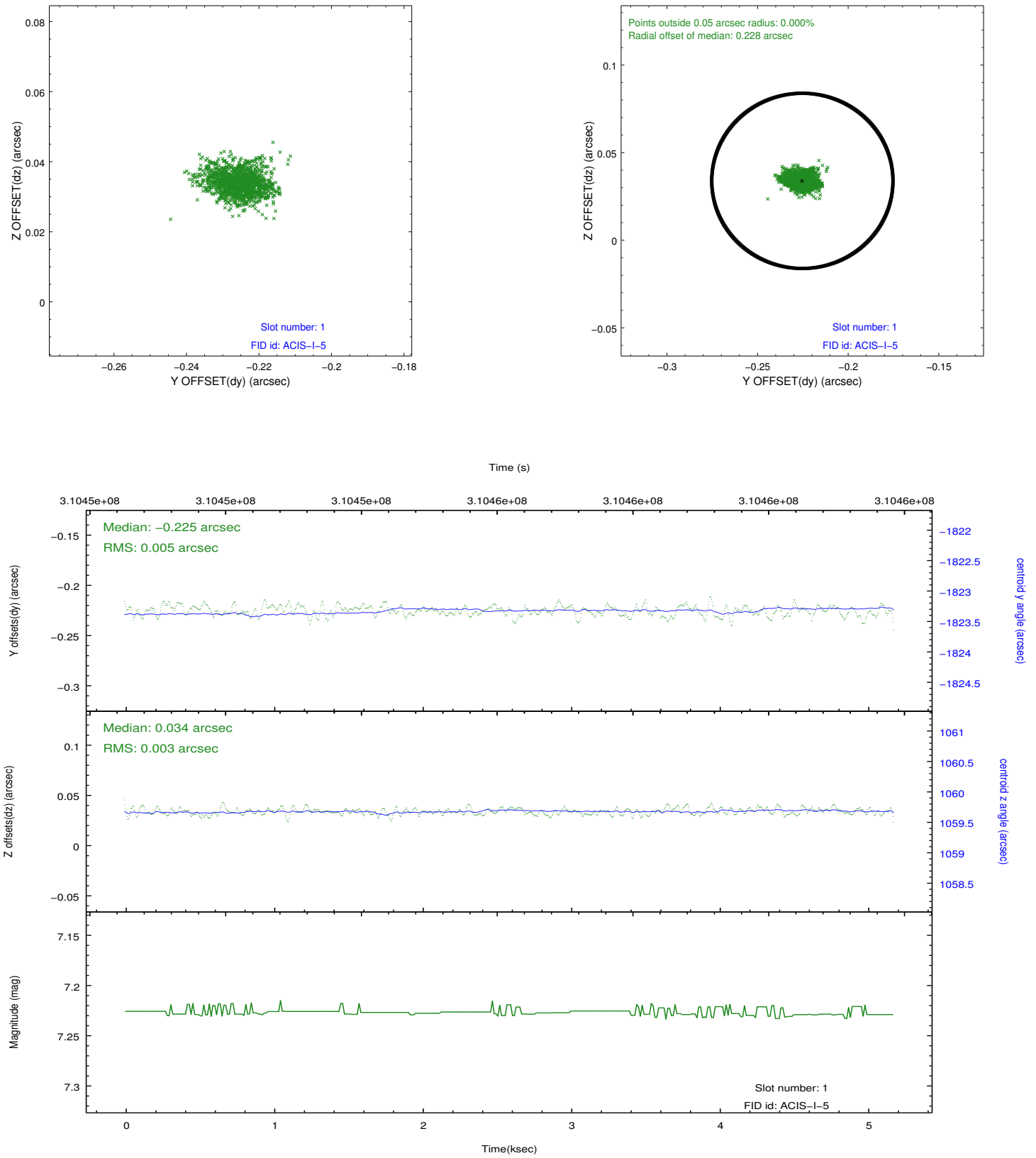


2.5 FID Slots

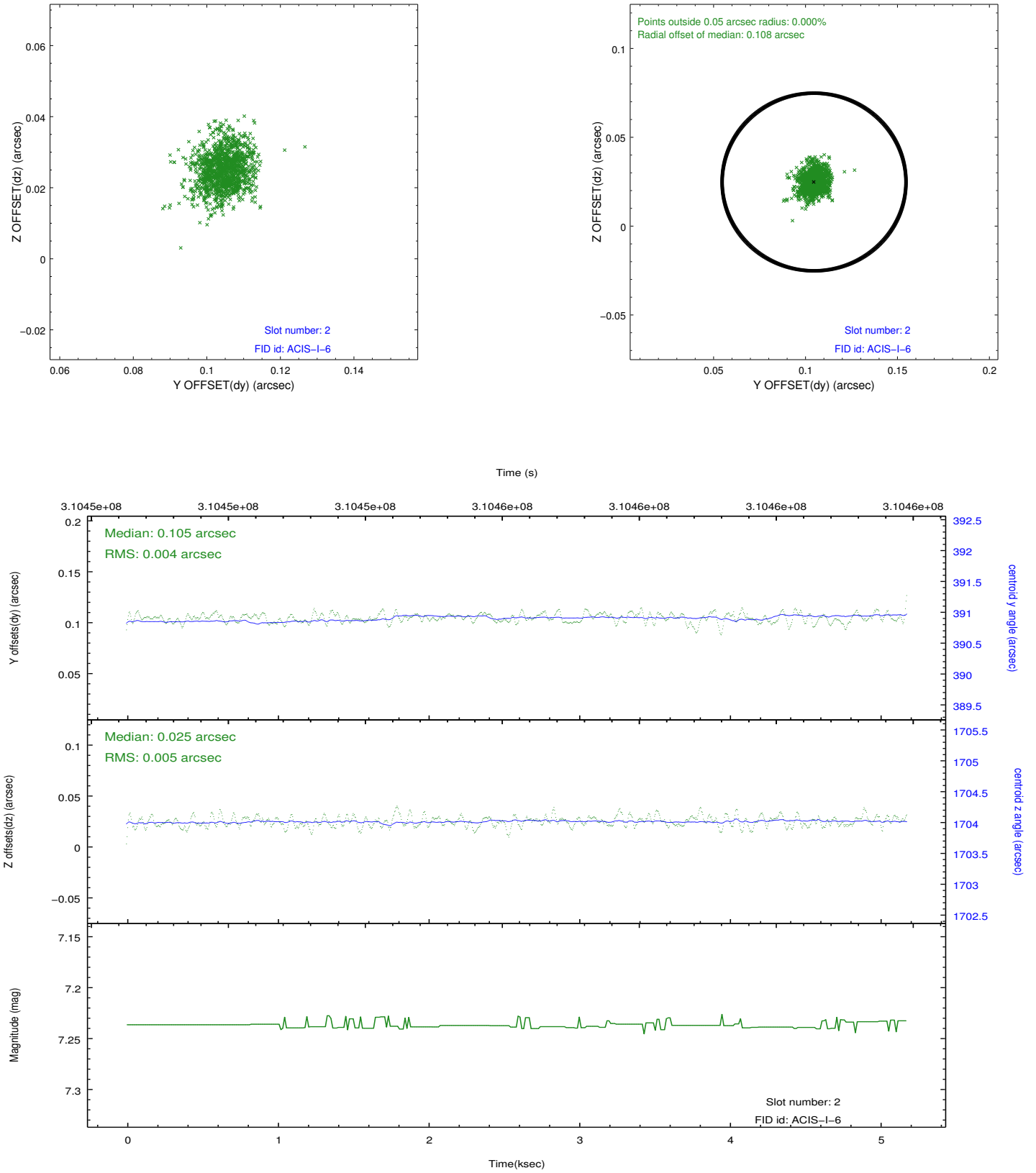
2.5.1 Slot 0



2.5.2 Slot 1



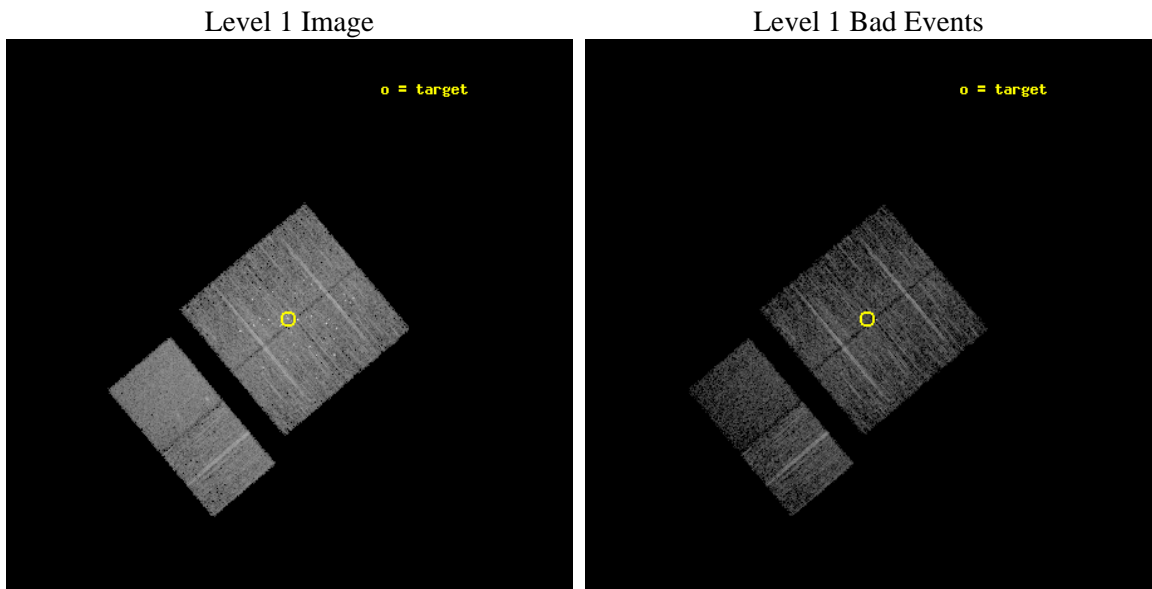
2.5.3 Slot 2



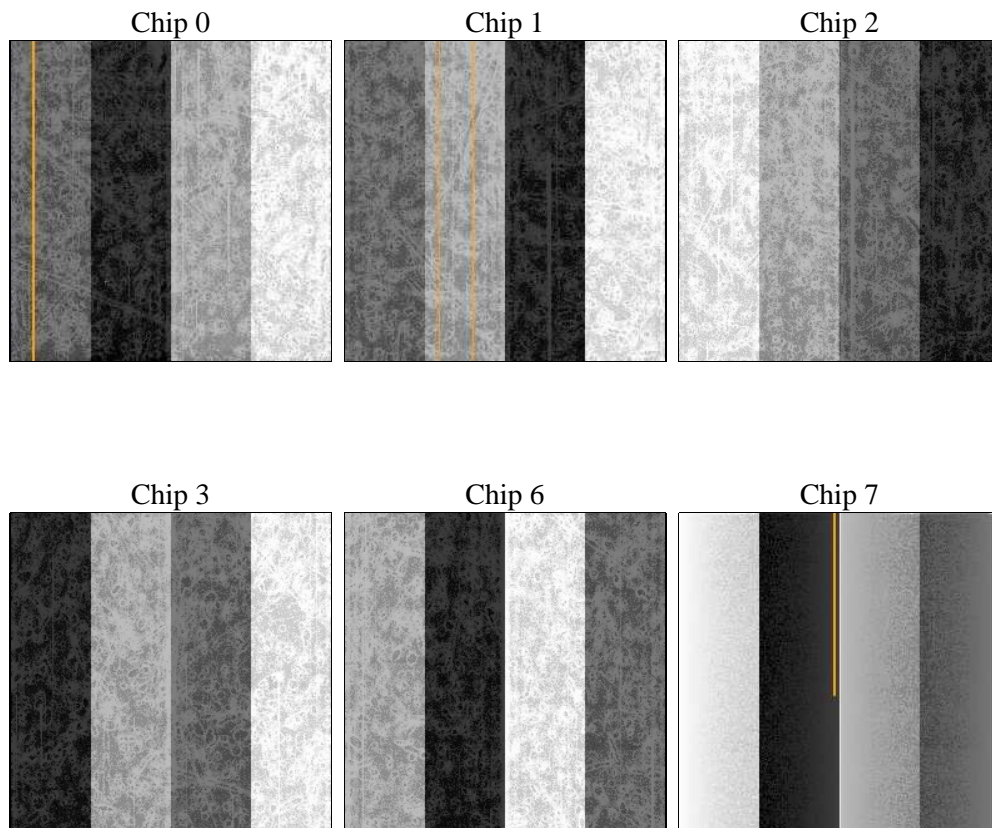
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4187.2711663842	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4187.2712856531	Sum of GTIs [s]
date	2012-05-04T00:53:14	Date and time of file creation	ontime1	4187.2710571289	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4187.2714750171	Sum of GTIs [s]
			ontime3	4187.2711663842	Sum of GTIs [s]
			ontime6	4187.2712252736	Sum of GTIs [s]
			ontime7	4187.2711164951	Sum of GTIs [s]
			l1events	263364	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	43151	39320	46231	45230	43154	46278	grade 0 events	4067	2891	2944	5577	1488	2037
rejected events	36446	34094	41149	37126	39634	28768		9%	7%	6%	12%	3%	4%
rejected %	84%	86%	89%	82%	91%	62%	grade 1 events	120	39	42	94	19	62
								0%	0%	0%	0%	0%	0%
							grade 2 events	1425	1154	1168	1354	939	4365
								3%	2%	2%	2%	2%	9%
							grade 3 events	591	552	480	575	468	1880
								1%	1%	1%	1%	1%	4%
							grade 4 events	568	565	480	629	460	1868
								1%	1%	1%	1%	1%	4%
							grade 5 events	1530	1609	1331	1643	1691	4937
								3%	4%	2%	3%	3%	10%
							grade 6 events	911	1015	767	913	925	11140
								2%	2%	1%	2%	2%	24%
							grade 7 events	33939	31495	39019	34445	37164	19989
								78%	80%	84%	76%	86%	43%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1704582

A.2 Comments