

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8193 - L2 Version 2
Chandra X-Ray Center

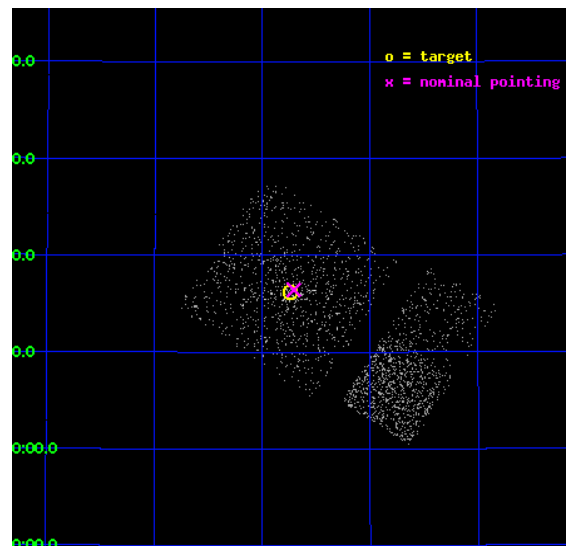
L2 Processing Date : Apr 28 2012

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1 Front

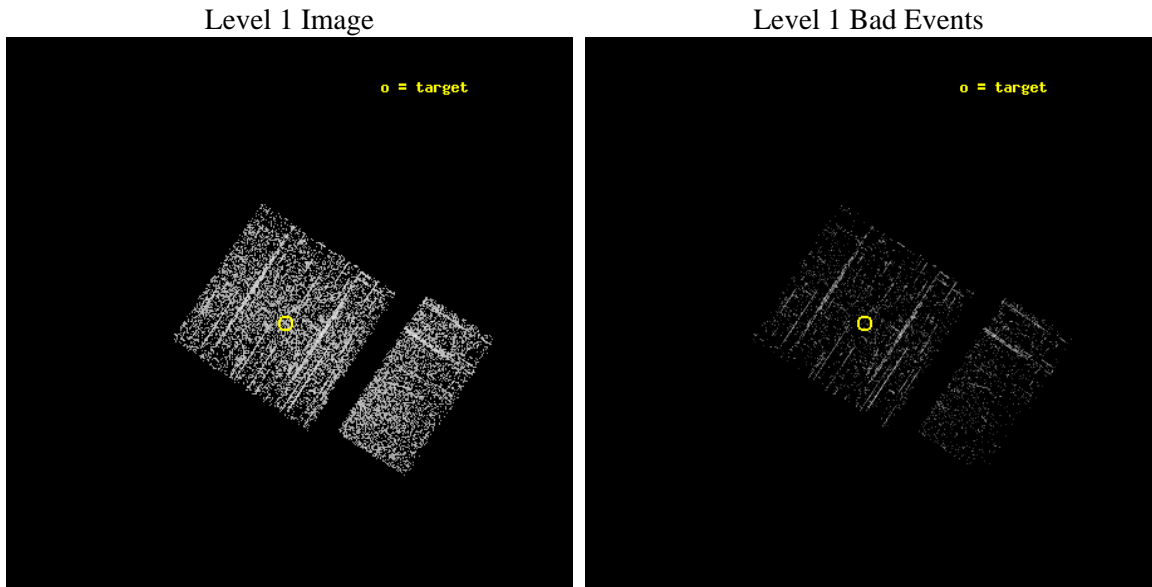
seq_num	600630	Sequence number
obs_id	8193	Observation id
title	Continued M31 Monitoring for Black Hole X-ray Nova	Proposal title
observer	Dr. Michael Garcia	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.67660642145	Nominal RA [deg]
dec_nom	41.273978273172	Nominal Dec [deg]
roll_nom	123.39803716438	Nominal Roll [deg]
revision	2	Processing version of data
ontime	978.95238119364	Sum of GTIs [s]
livetime	154.1107186716	Livetime [s]
ontime0	978.82926118374	Sum of GTIs [s]
ontime1	978.87030118704	Sum of GTIs [s]
ontime2	978.91134119034	Sum of GTIs [s]
ontime3	978.95238119364	Sum of GTIs [s]
ontime6	979.03446120024	Sum of GTIs [s]
ontime7	978.99340128899	Sum of GTIs [s]
l2events	2509	Number of level 2 events



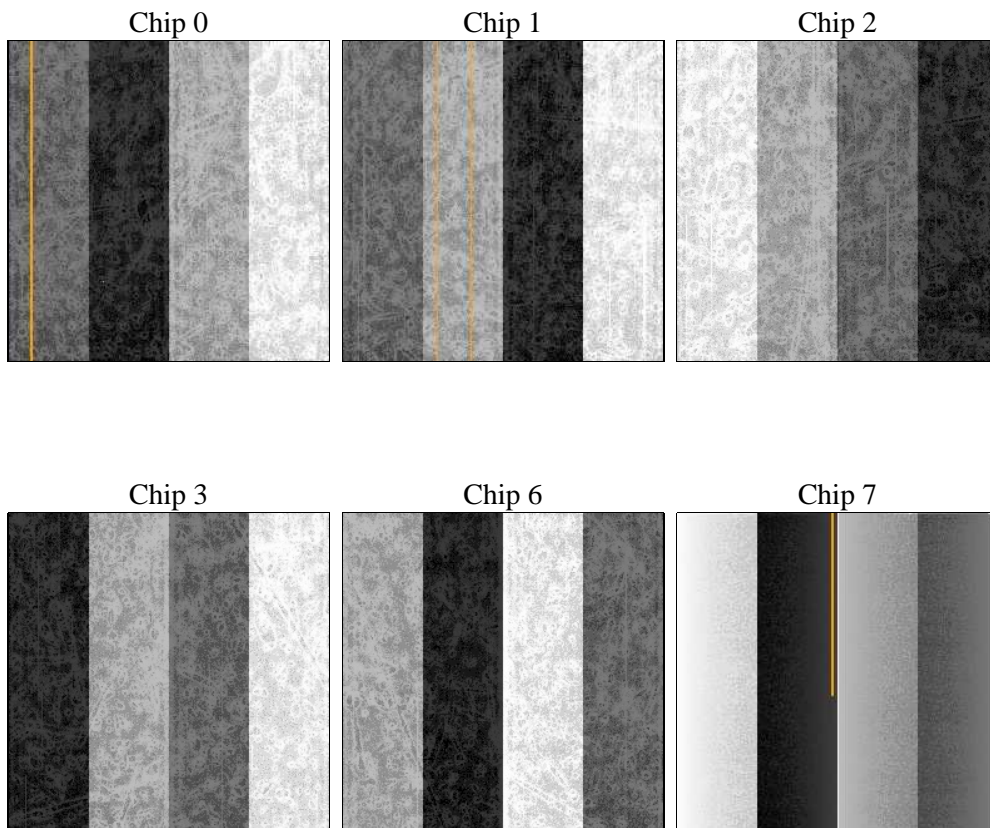
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5025.705000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	978.95238119364	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	978.82926118374	Sum of GTIs [s]
date	2012-04-28T16:03:05	Date and time of file creation	ontime1	978.87030118704	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	978.91134119034	Sum of GTIs [s]
			ontime3	978.95238119364	Sum of GTIs [s]
			ontime6	979.03446120024	Sum of GTIs [s]
			ontime7	978.99340128899	Sum of GTIs [s]
			l1events	25923	Number of level 1 events

2.1.4 Events

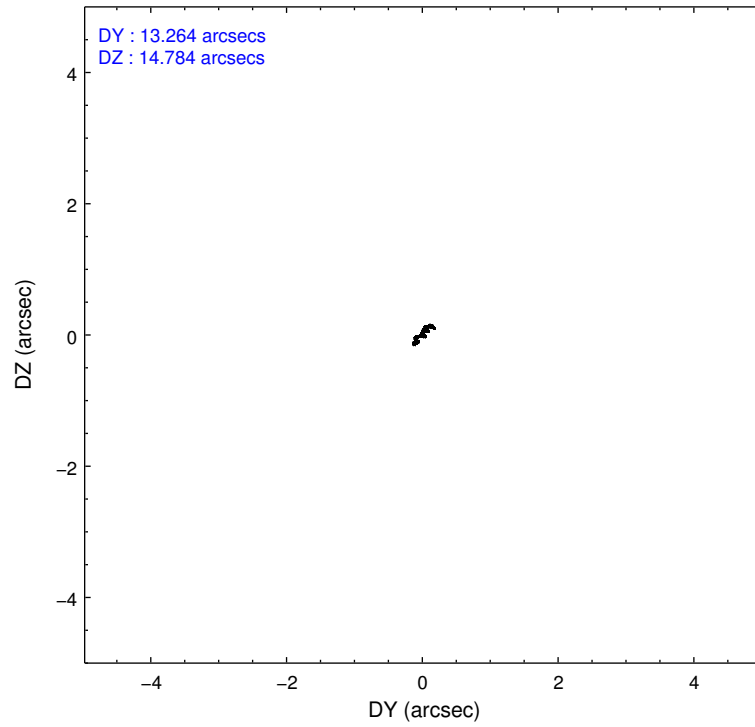
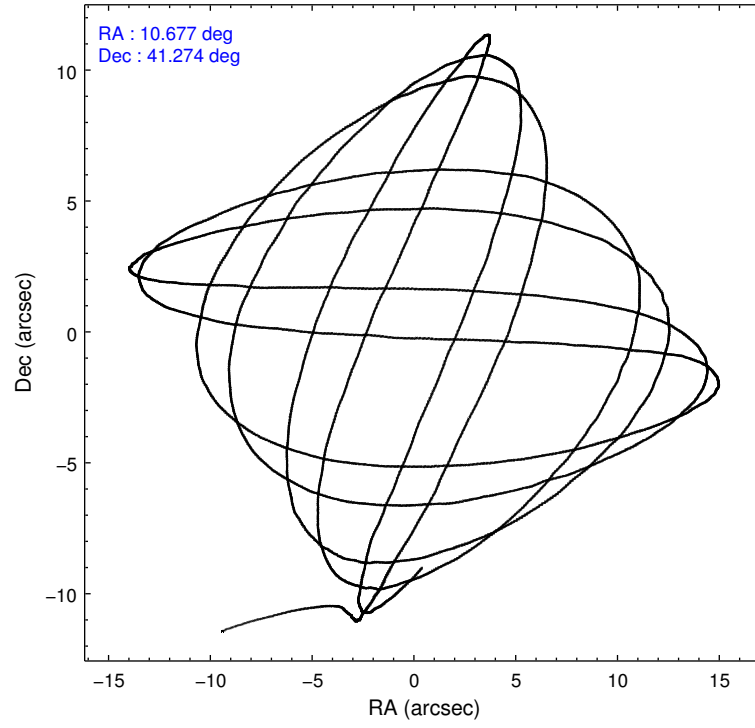
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	3790	4332	4861	4806	4429	3705
rejected events	3438	3904	4458	4326	4142	2720
rejected %	90%	90%	91%	90%	93%	73%

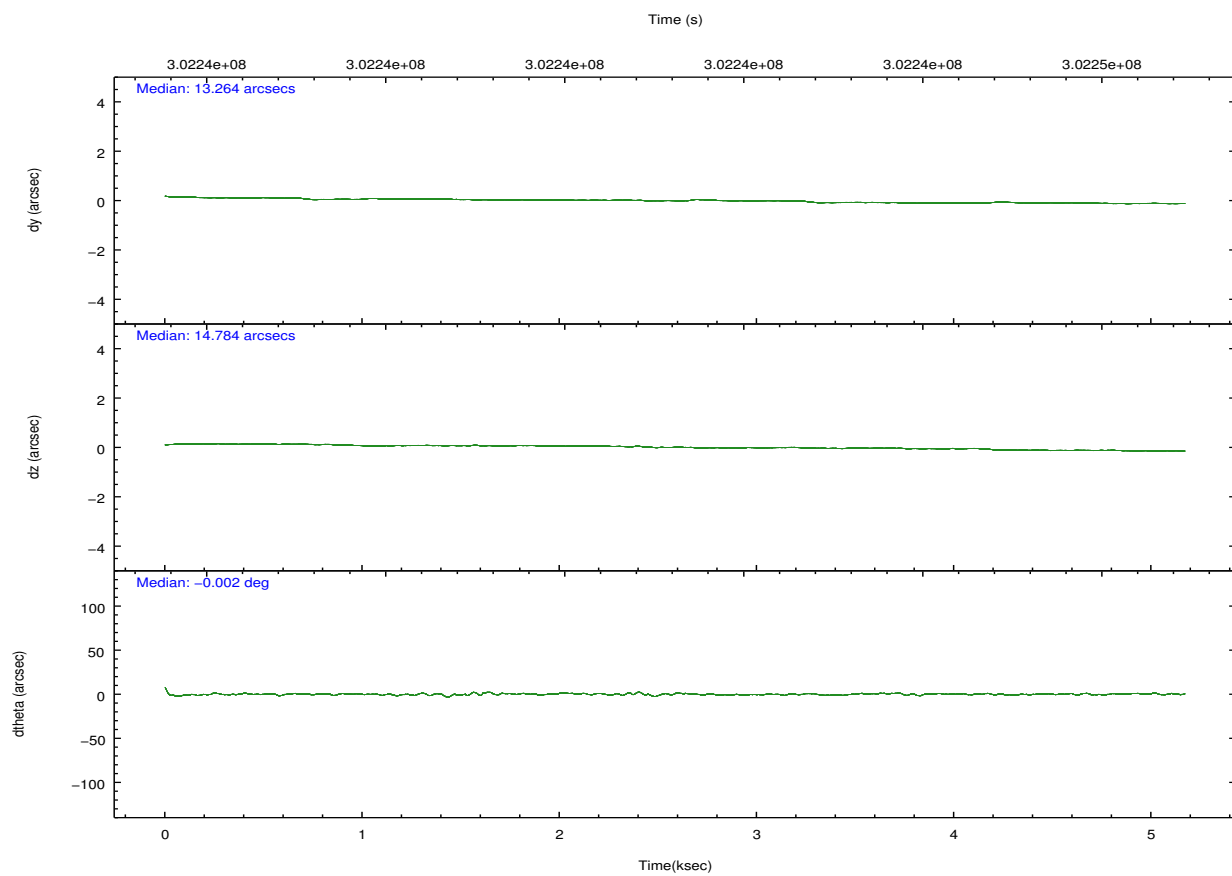
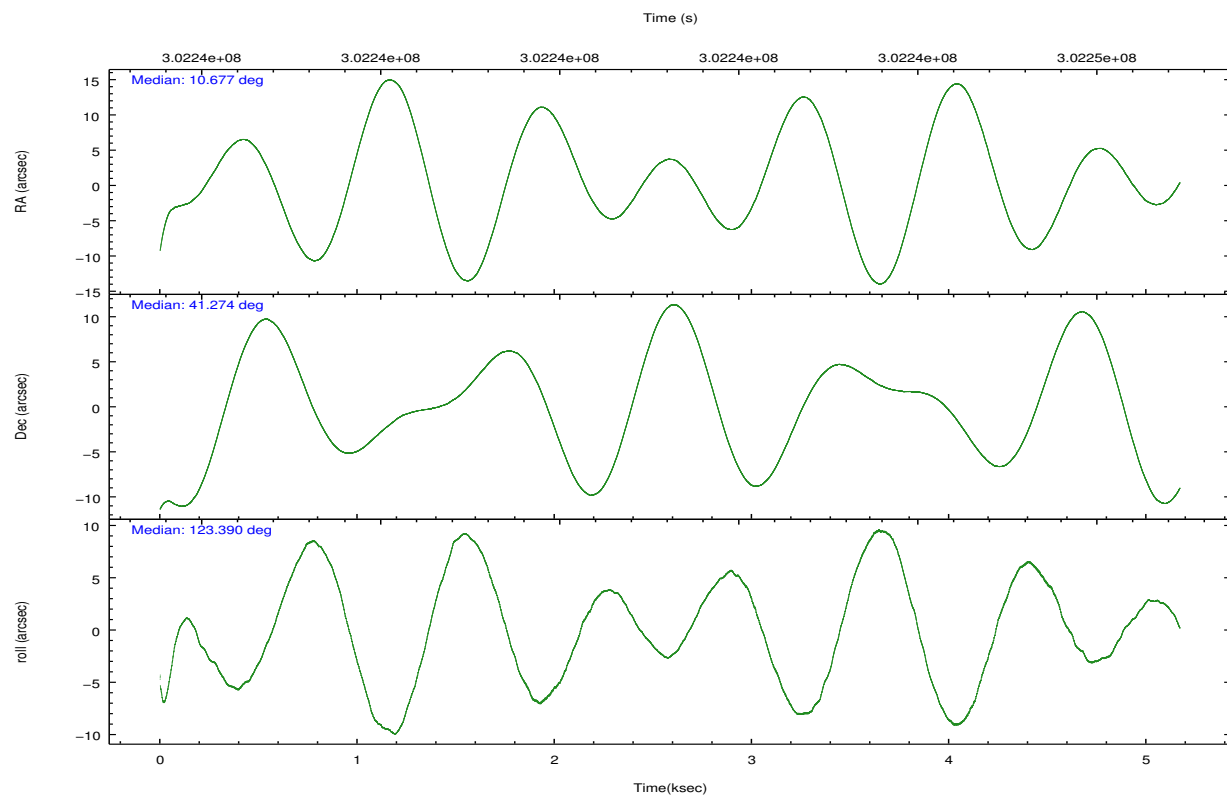
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	127	207	148	270	85	105
	3%	4%	3%	5%	1%	2%
grade 1 events	0	6	5	4	0	7
	0%	0%	0%	0%	0%	0%
grade 2 events	93	89	110	98	70	234
	2%	2%	2%	2%	1%	6%
grade 3 events	55	53	52	54	48	120
	1%	1%	1%	1%	1%	3%
grade 4 events	45	58	60	39	47	121
	1%	1%	1%	0%	1%	3%
grade 5 events	126	139	123	165	178	332
	3%	3%	2%	3%	4%	8%
grade 6 events	74	76	61	63	80	539
	1%	1%	1%	1%	1%	14%
grade 7 events	3270	3704	4302	4113	3921	2247
	86%	85%	88%	85%	88%	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	10.709450	10.67660642144961	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.261874	41.27397827317208	Alternating exposures requested	Y	Y
[deg] Pointing Roll	123.167704	123.398037164378	[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)	302241171.184000	302239715.41212			
Observation start date	2007-07-31T03:51:46	2007-07-31T03:28:35			
[s] Observation end time (MET)	302246197.184000	302246439.41244			
Observation end date	2007-07-31T05:15:32	2007-07-31T05:20:39			
Read mode	TIMED	TIMED			

2.3 Aspect



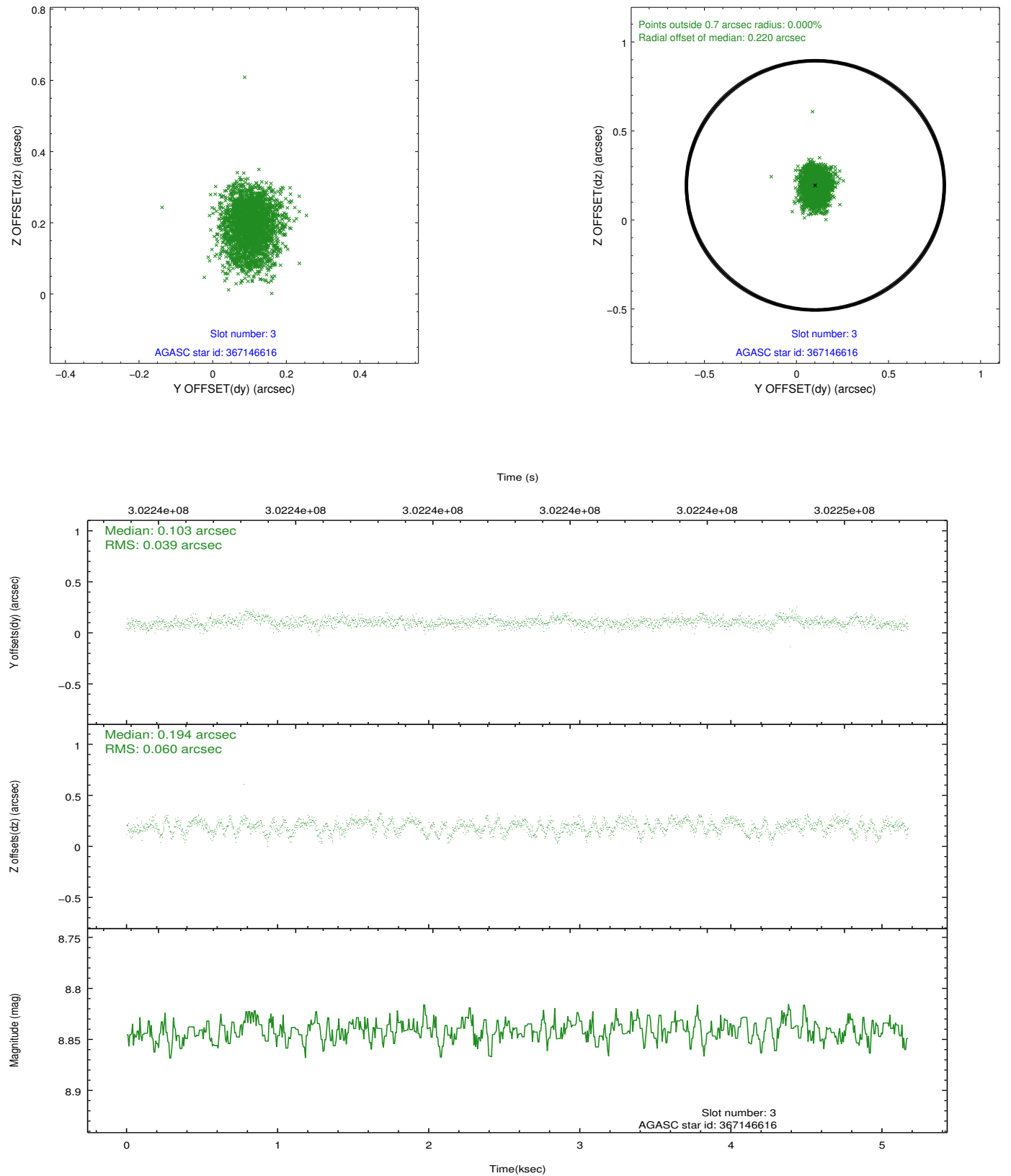


Slot Statistics

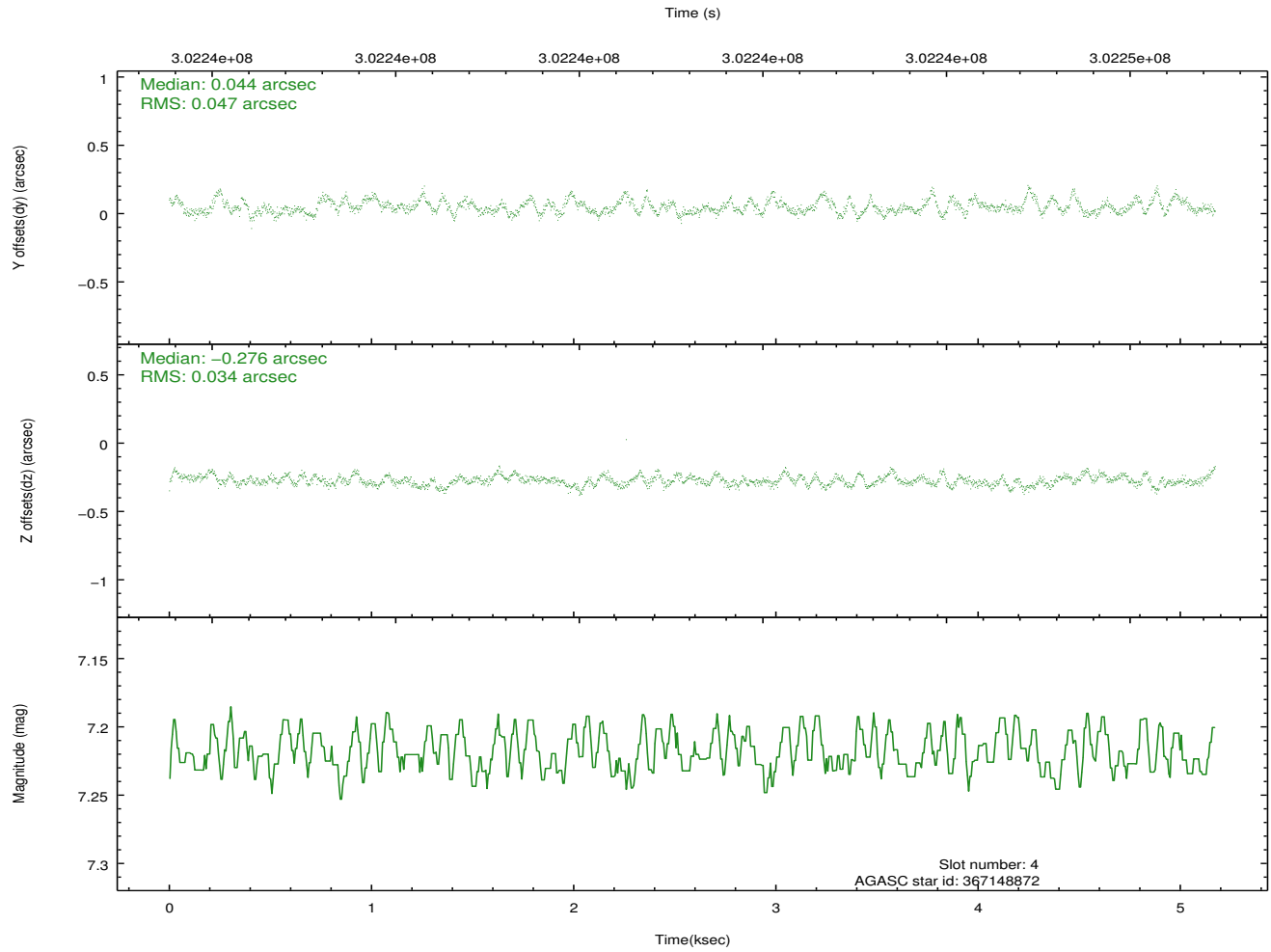
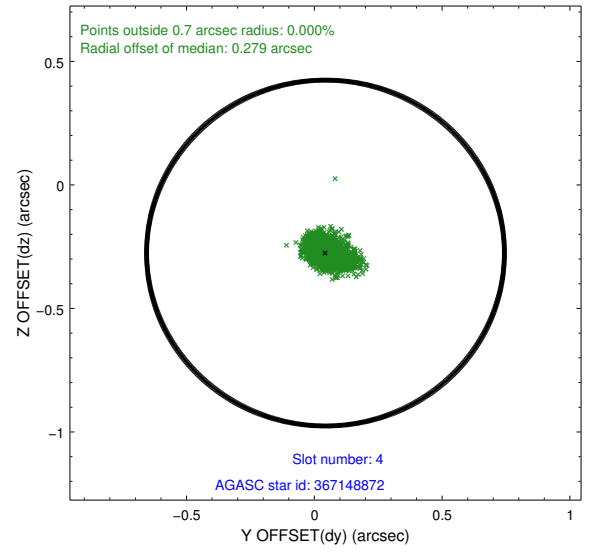
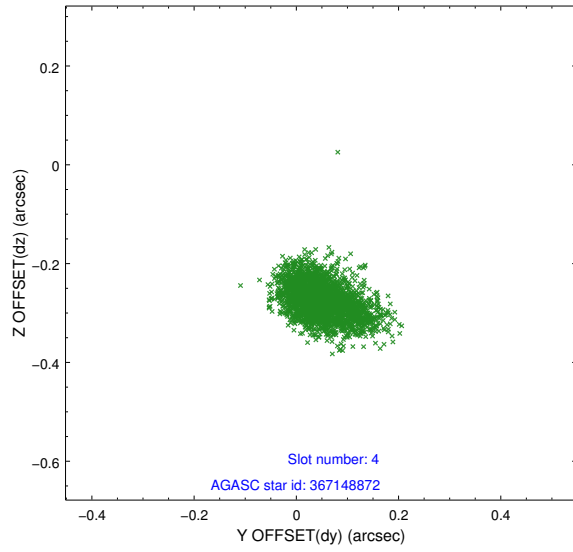
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	1262	-0.080	-0.074	0.010	0.018	0.000000	0.000000	-768.01	-844.82
1	FID	ACIS-I-4	7.14	1259	0.236	0.070	0.007	0.013	0.000000	0.000000	2145.85	1060.88
2	FID	ACIS-I-5	7.21	1262	-0.258	0.074	0.009	0.015	0.000000	0.000000	-1820.49	1060.11
3	GUIDE	367146616	8.84	2521	0.103	0.194	0.075	0.121	11.418645	41.190163	-1259.82	-1471.45
4	GUIDE	367148872	7.22	2523	0.044	-0.276	0.060	0.103	10.505940	40.688258	-1424.62	1593.59
5	GUIDE	367657896	9.02	2522	0.059	0.055	0.088	0.137	11.197765	41.313576	-563.29	-1208.66
6	GUIDE	367663272	9.26	2520	-0.068	-0.043	0.091	0.147	10.656279	41.699429	1397.21	-741.98
7	GUIDE	367674552	8.84	2521	-0.142	0.072	0.065	0.104	11.016238	41.570845	481.25	-1301.32

2.4 Star Slots

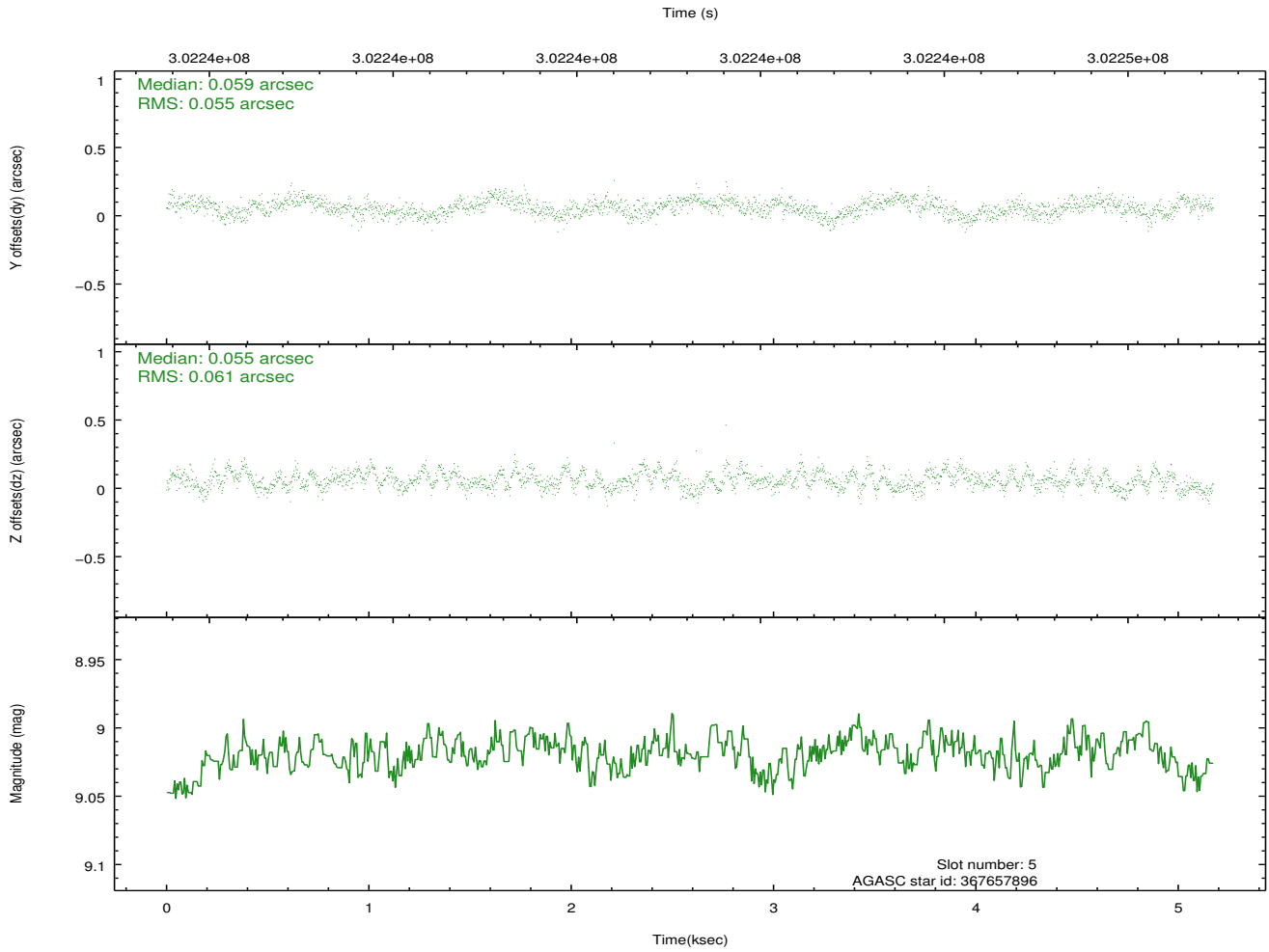
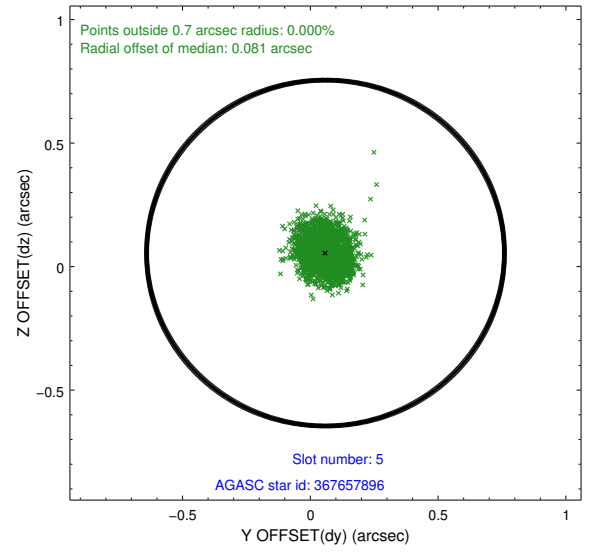
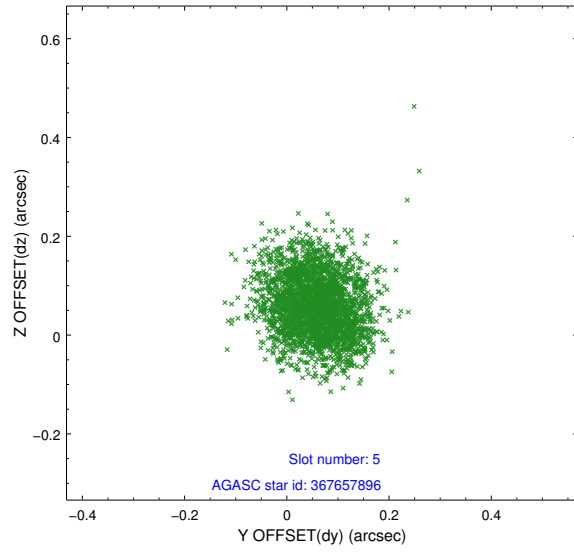
2.4.1 Slot 3



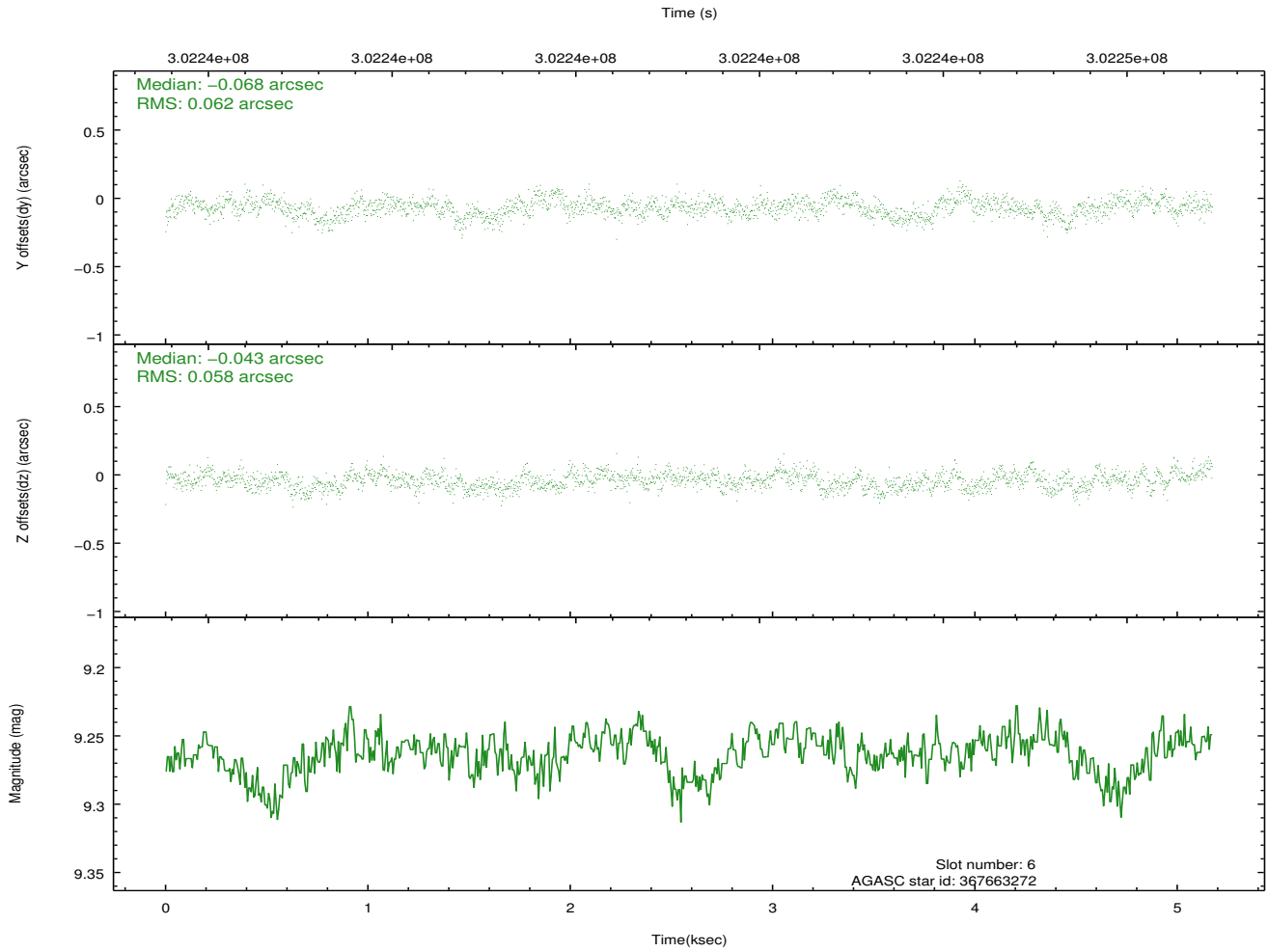
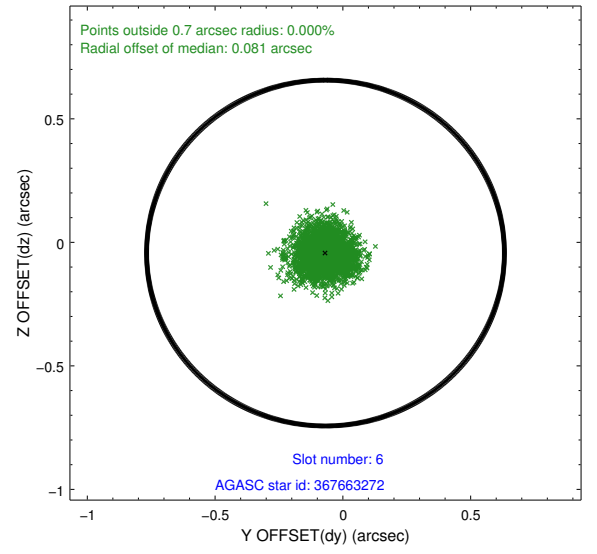
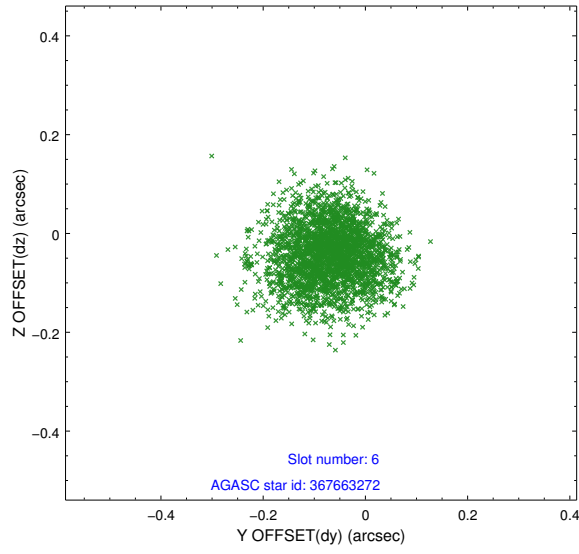
2.4.2 Slot 4



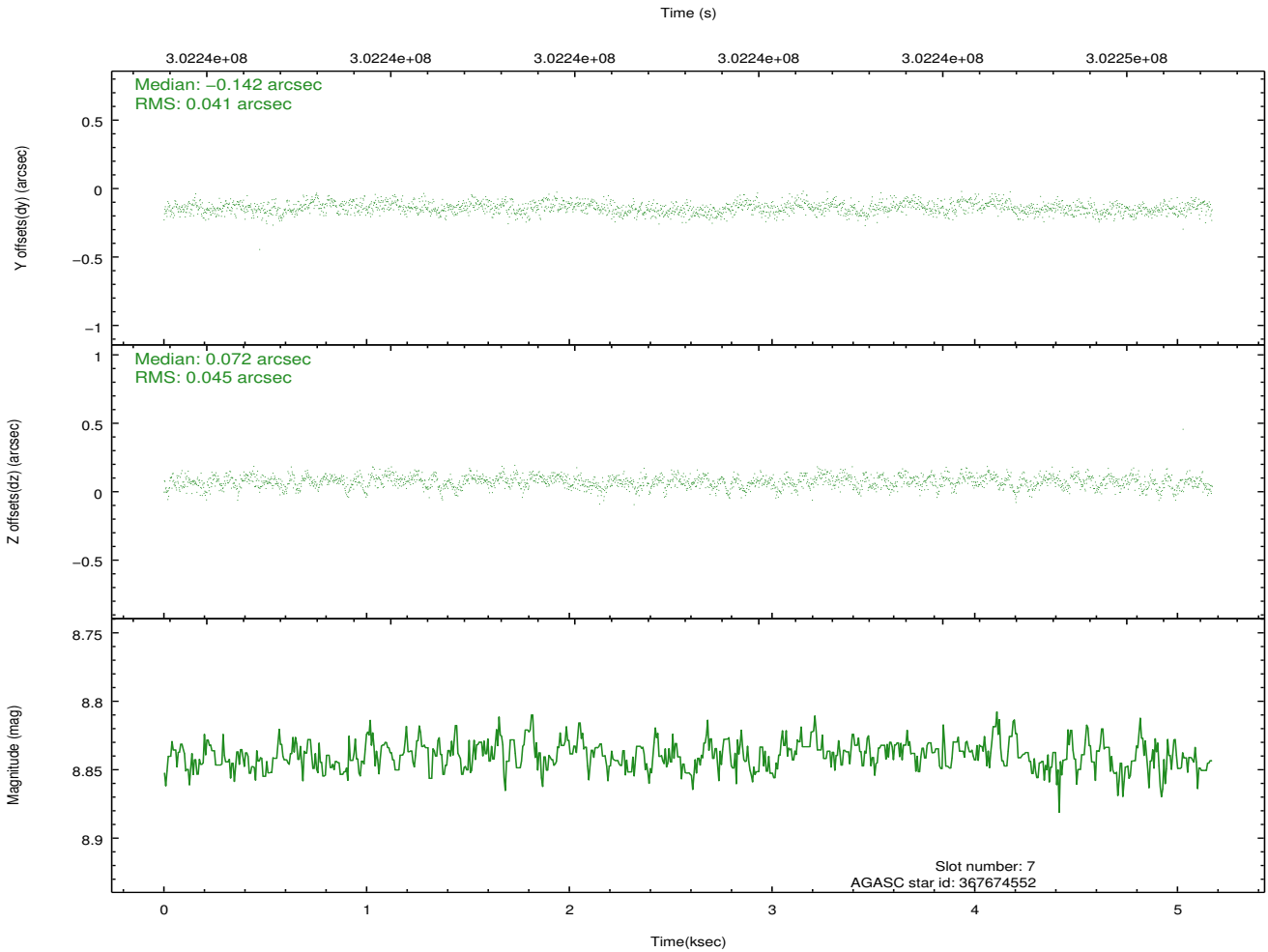
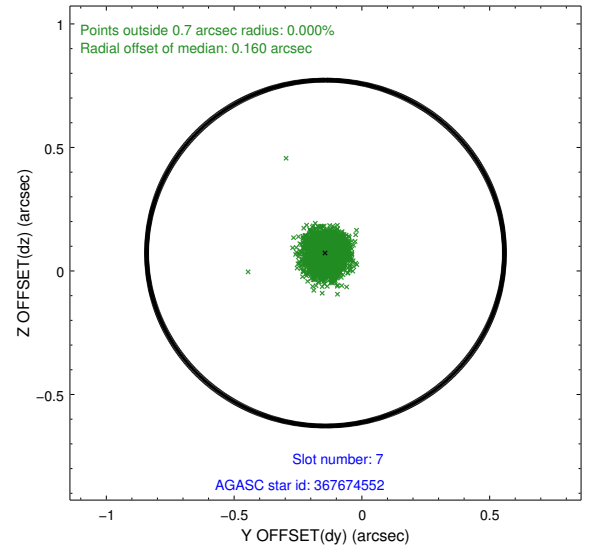
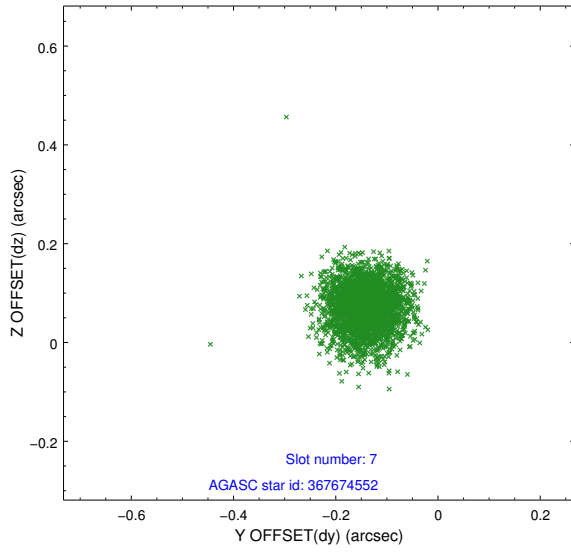
2.4.3 Slot 5



2.4.4 Slot 6

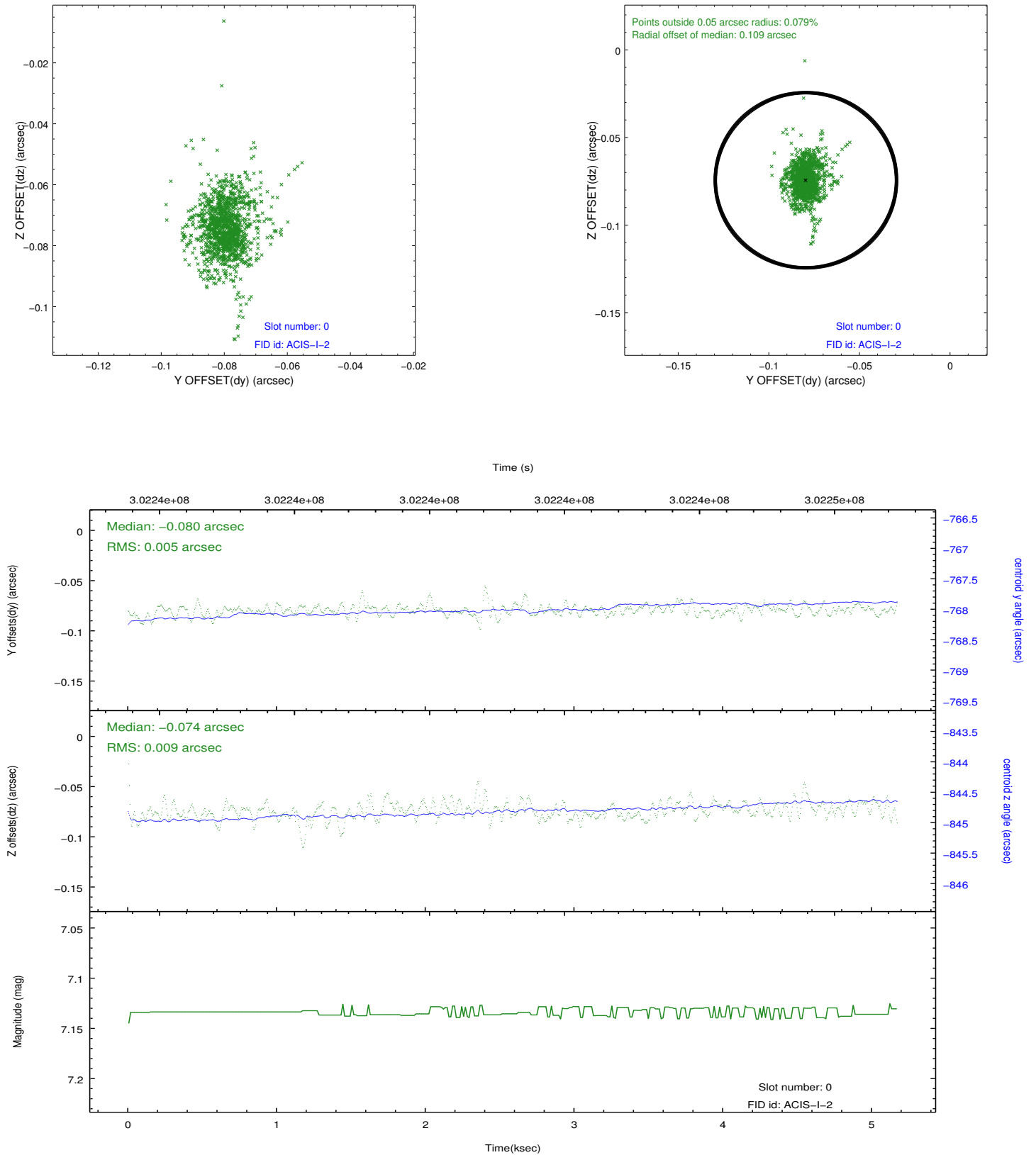


2.4.5 Slot 7

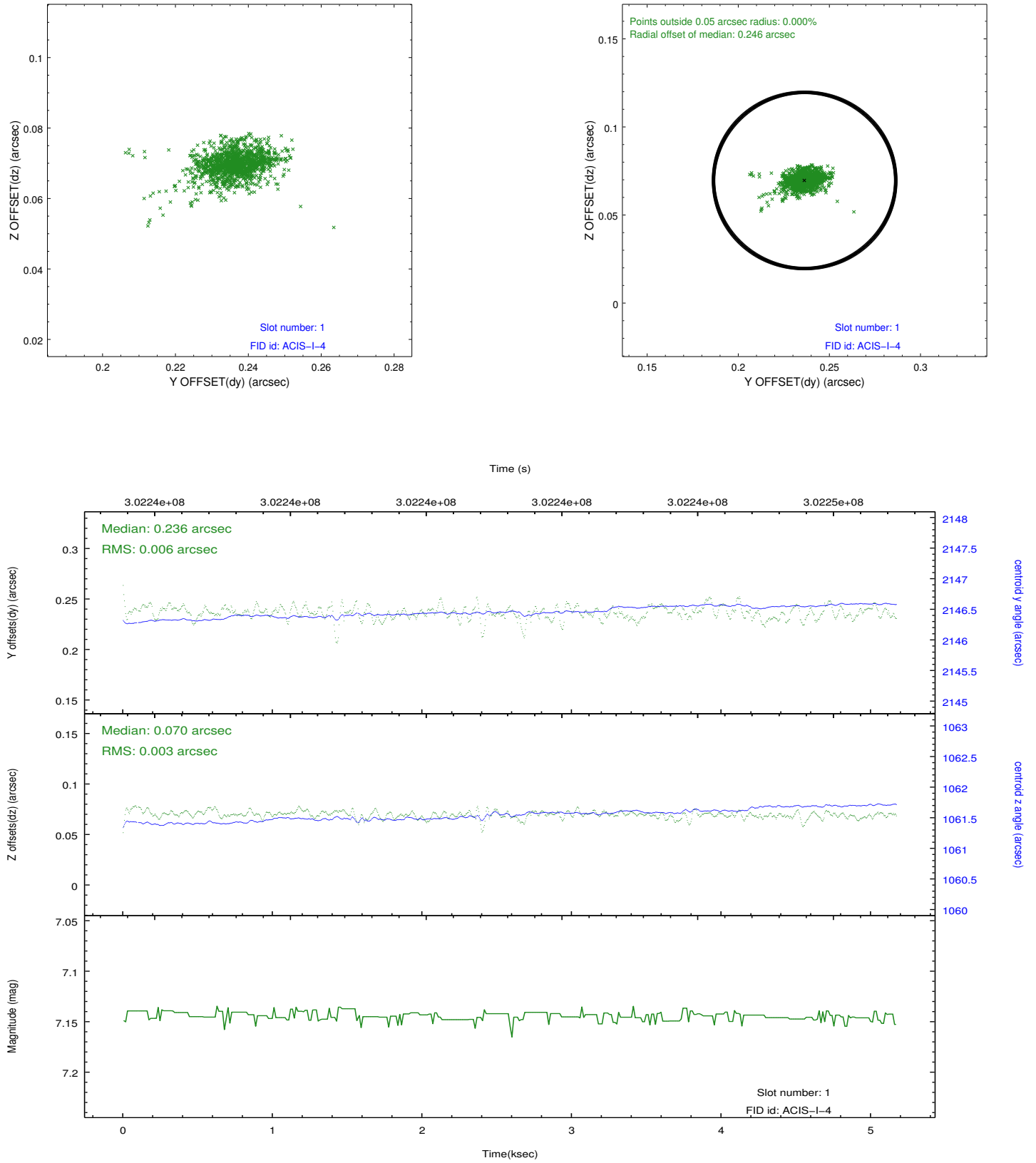


2.5 FID Slots

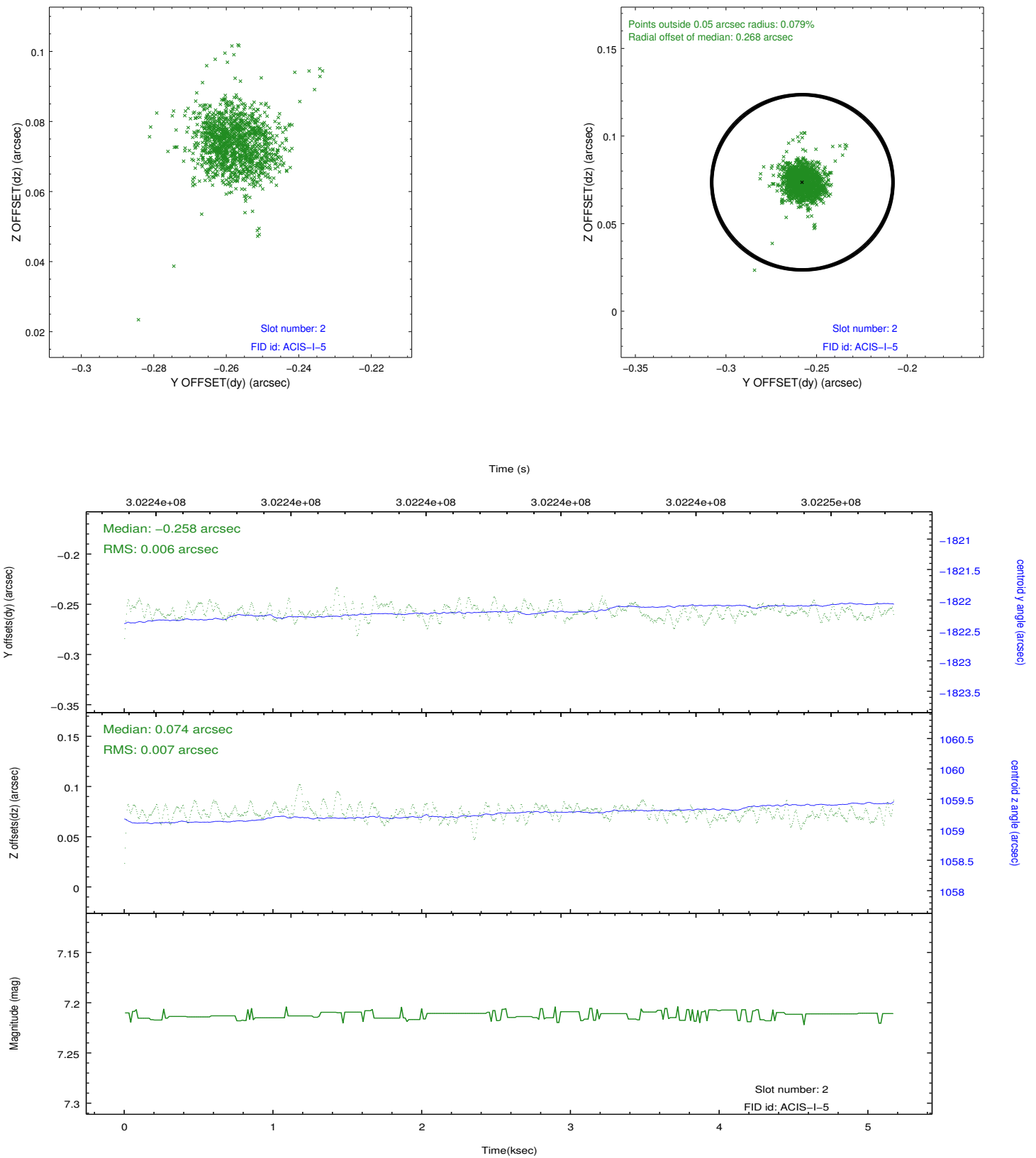
2.5.1 Slot 0



2.5.2 Slot 1



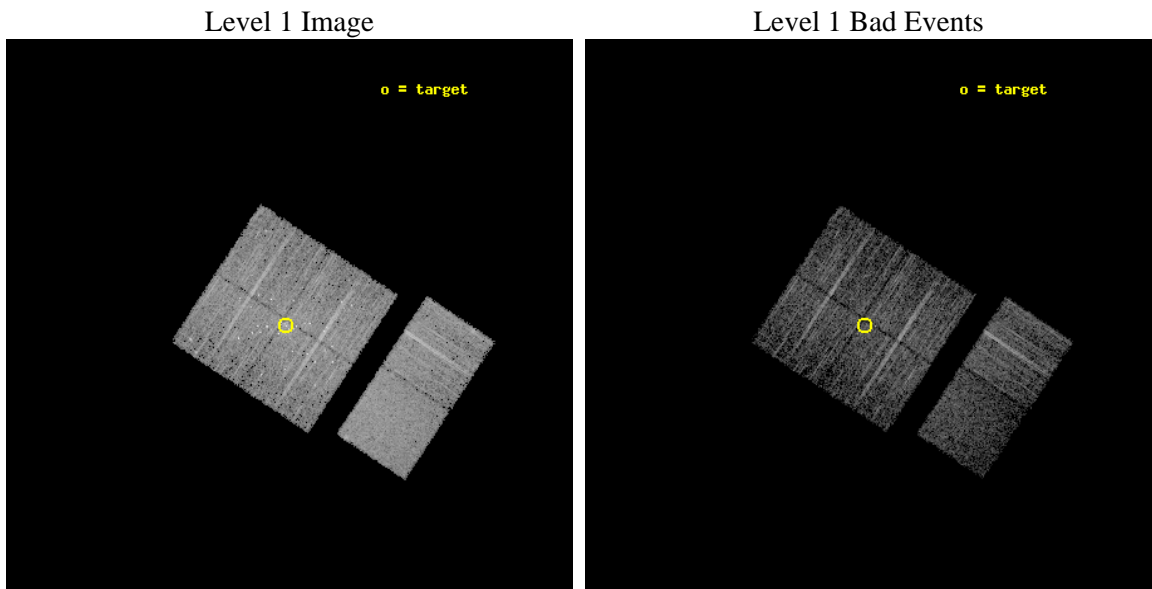
2.5.3 Slot 2



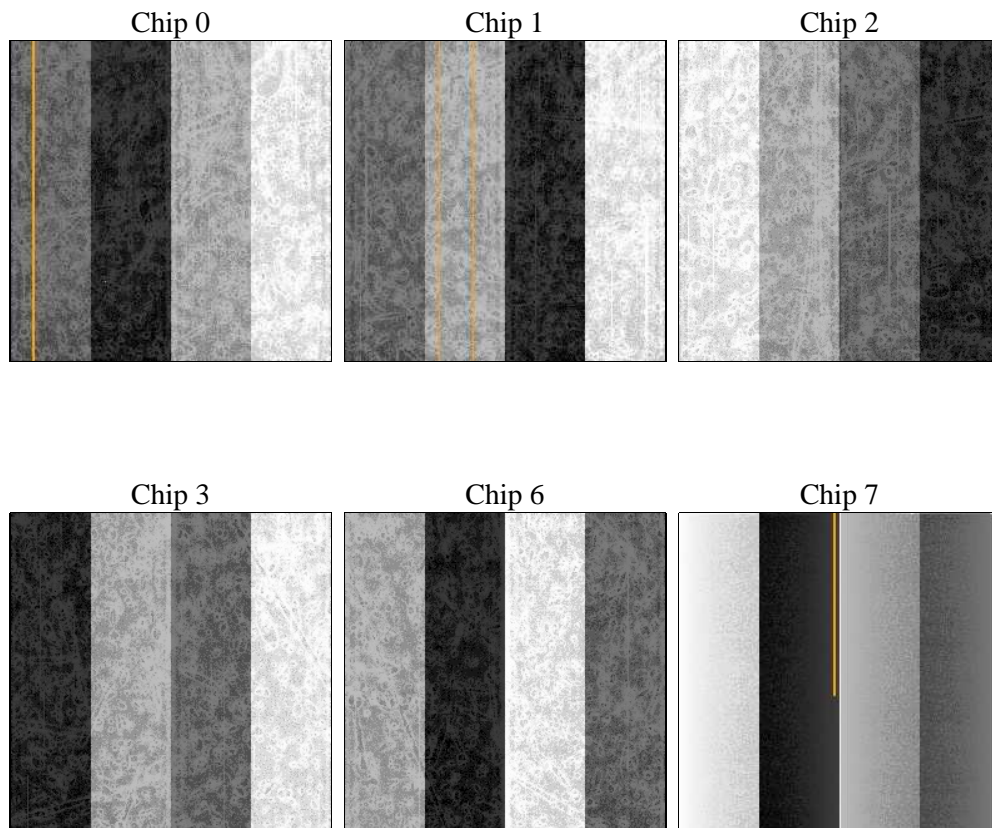
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5025.705000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4181.4915267229	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4181.4911870956	Sum of GTIs [s]
date	2012-04-28T16:02:05	Date and time of file creation	ontime1	4181.4908289313	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4181.4914563298	Sum of GTIs [s]
			ontime3	4181.4915267229	Sum of GTIs [s]
			ontime6	4181.4914360642	Sum of GTIs [s]
			ontime7	4181.4905495048	Sum of GTIs [s]
			l1events	237420	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	35467	38044	41957	39485	40836	41631	grade 0 events	2605	4075	3182	4851	1574	1887
rejected events	30703	31290	36567	32039	37150	24818		7%	10%	7%	12%	3%	4%
rejected %	86%	82%	87%	81%	90%	59%	grade 1 events	44	40	37	117	18	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	1013	1297	1061	1260	899	3831
								2%	3%	2%	3%	2%	9%
							grade 3 events	479	552	466	571	438	1800
								1%	1%	1%	1%	1%	4%
							grade 4 events	444	544	454	549	407	1896
								1%	1%	1%	1%	0%	4%
							grade 5 events	1267	1476	1172	1553	1503	4459
								3%	3%	2%	3%	3%	10%
							grade 6 events	757	919	705	848	883	9826
								2%	2%	1%	2%	2%	23%
							grade 7 events	28858	29141	34880	29736	35114	17881
								81%	76%	83%	75%	85%	42%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1607439

A.2 Comments

Joint Proposal: HST.