

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11279 - L2 Version 2
Chandra X-Ray Center

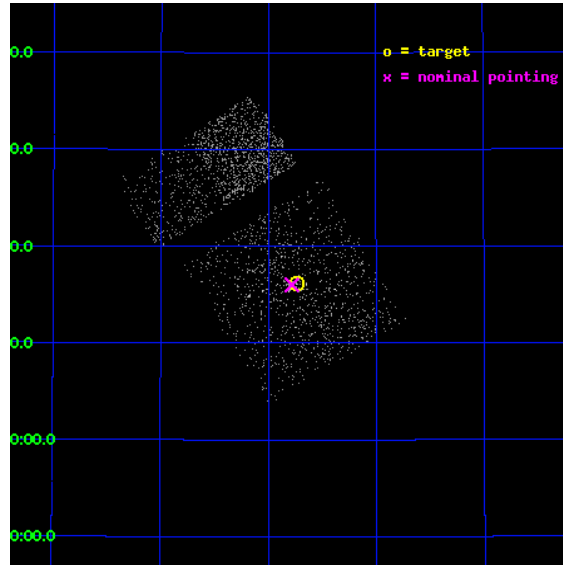
L2 Processing Date : Jun 22 2012

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1 Front

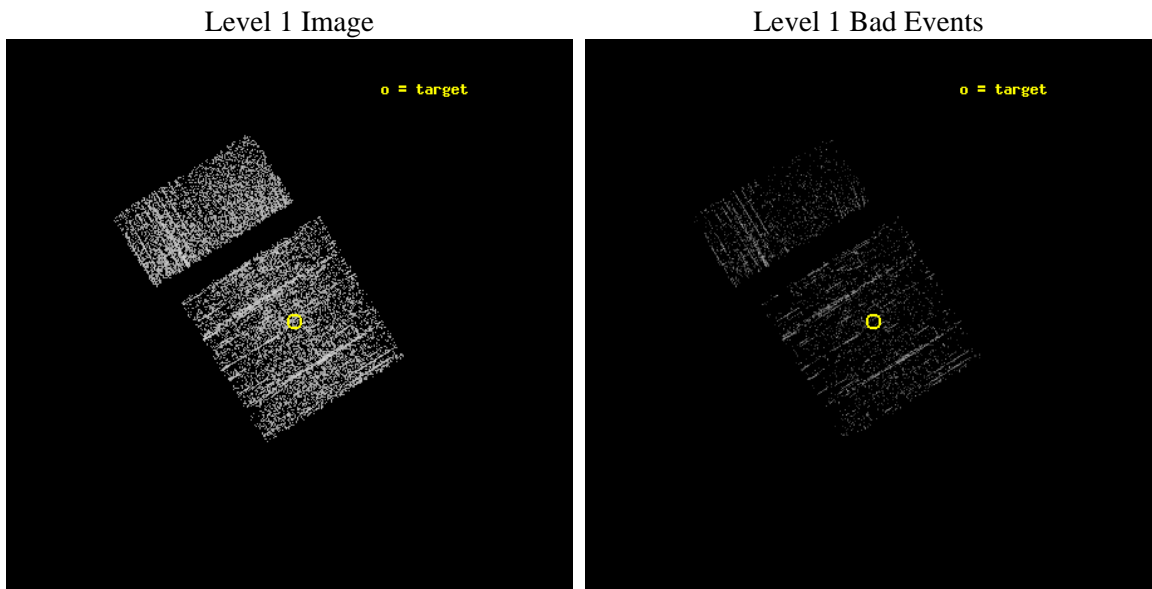
seq_num	600798	Sequence number
obs_id	11279	Observation id
title	Monitoring M31 for BHXNe	Proposal title
observer	Dr. Michael Garcia	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.695386221327	Nominal RA [deg]
dec_nom	41.266943180506	Nominal Dec [deg]
roll_nom	328.55899396955	Nominal Roll [deg]
revision	2	Processing version of data
ontime	979.31911945343	Sum of GTIs [s]
livetime	154.16845211999	Livetime [s]
ontime0	979.19599944353	Sum of GTIs [s]
ontime1	979.23703944683	Sum of GTIs [s]
ontime2	979.27807945013	Sum of GTIs [s]
ontime3	979.31911945343	Sum of GTIs [s]
ontime6	979.40119946003	Sum of GTIs [s]
ontime7	979.36015945673	Sum of GTIs [s]
l2events	2675	Number of level 2 events



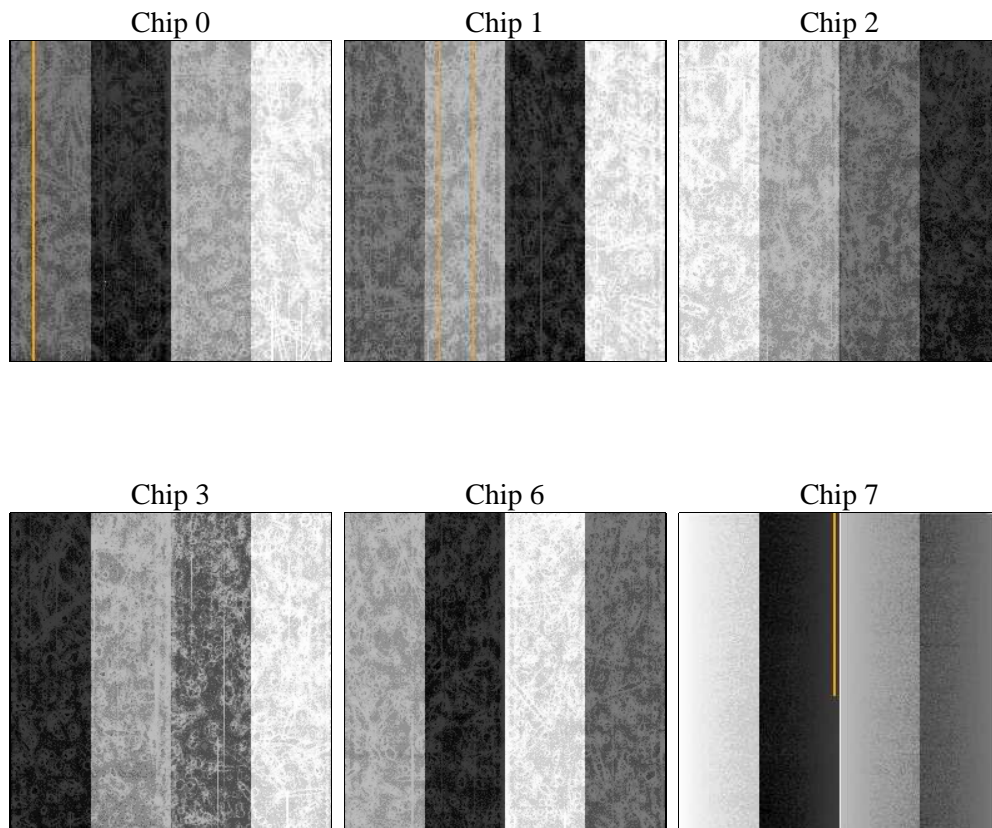
2 OBI Primary

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	8.4.5	Processing system revision	ontime	979.31911945343	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	979.19599944353	Sum of GTIs [s]
date	2012-06-22T04:30:22	Date and time of file creation	ontime1	979.23703944683	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	979.27807945013	Sum of GTIs [s]
			ontime3	979.31911945343	Sum of GTIs [s]
			ontime6	979.40119946003	Sum of GTIs [s]
			ontime7	979.36015945673	Sum of GTIs [s]
			l1events	23415	Number of level 1 events

2.1.4 Events

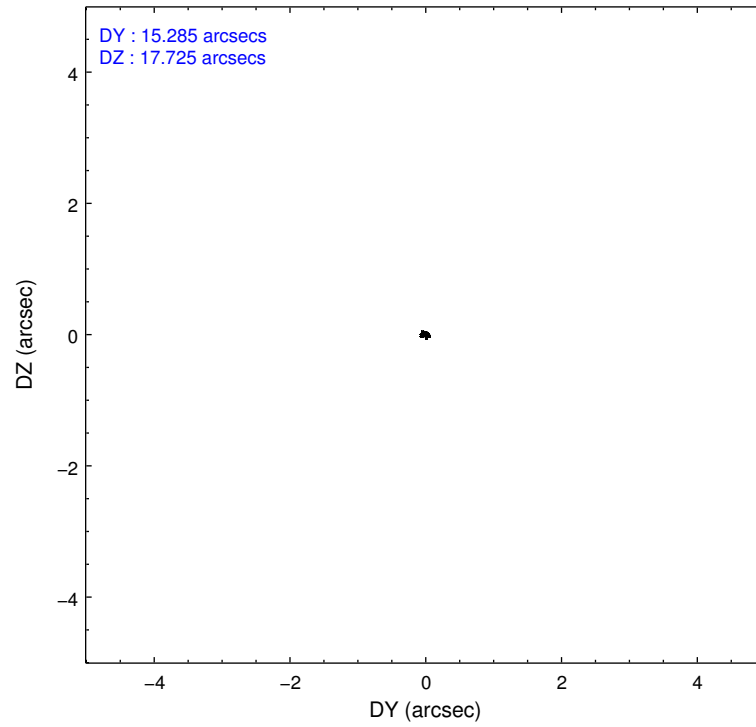
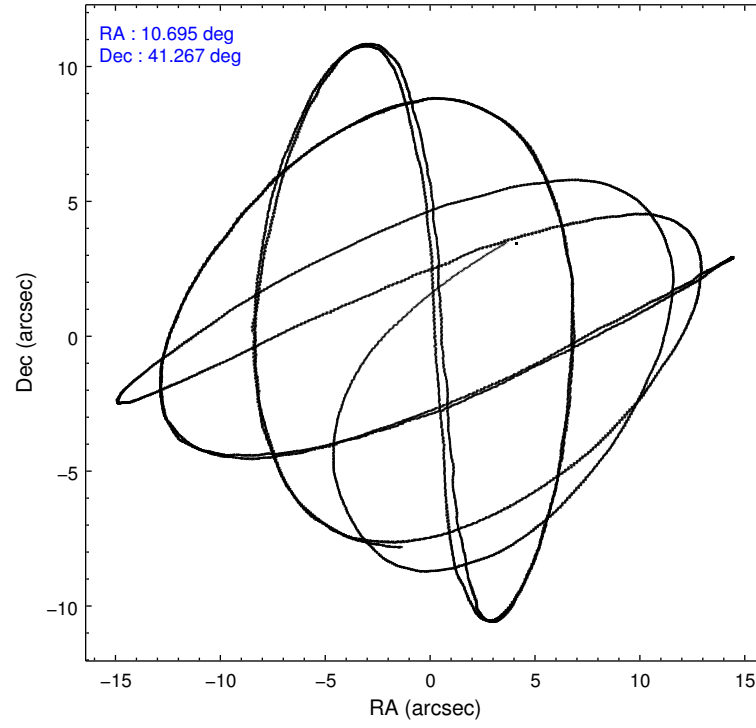
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	3371	3892	4225	3705	4724	3498
rejected events	2993	3304	3806	3339	4381	2443
rejected %	88%	84%	90%	90%	92%	69%

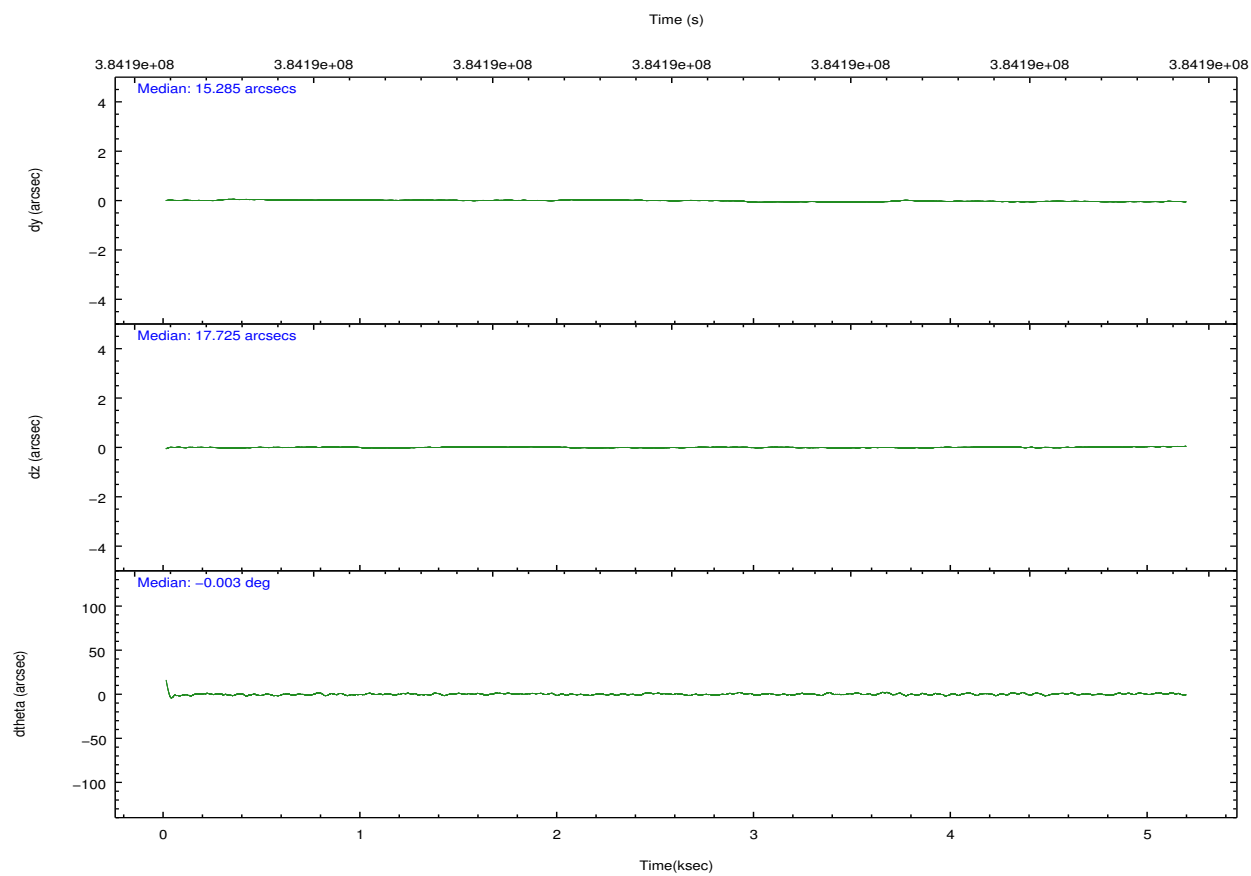
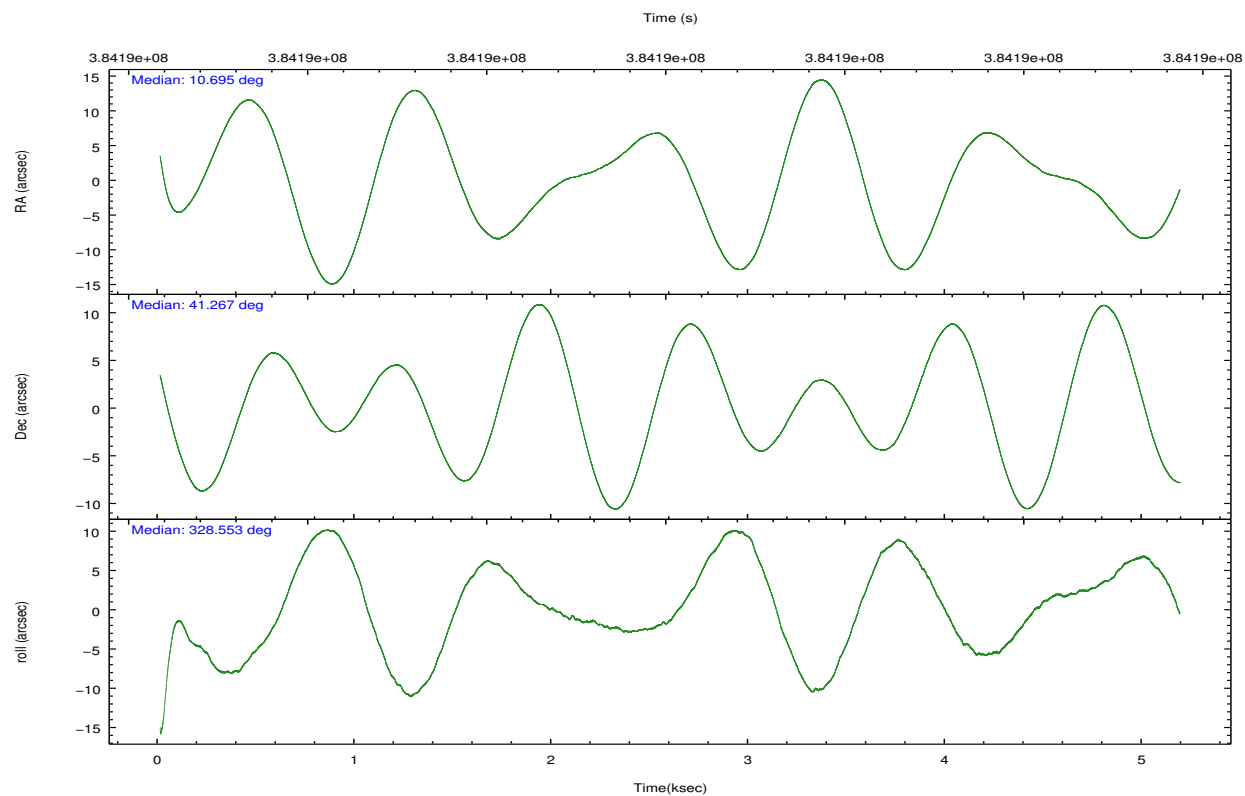
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	130	260	178	160	90	89
	3%	6%	4%	4%	1%	2%
grade 1 events	2	2	3	3	1	5
	0%	0%	0%	0%	0%	0%
grade 2 events	108	102	101	80	77	252
	3%	2%	2%	2%	1%	7%
grade 3 events	47	77	33	40	51	94
	1%	1%	0%	1%	1%	2%
grade 4 events	38	57	48	30	51	125
	1%	1%	1%	0%	1%	3%
grade 5 events	126	133	137	172	176	332
	3%	3%	3%	4%	3%	9%
grade 6 events	71	102	67	63	81	508
	2%	2%	1%	1%	1%	14%
grade 7 events	2849	3159	3658	3157	4197	2093
	84%	81%	86%	85%	88%	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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	10.658856	10.69538622132713	CCD I2 on	Y	Y
[deg] Pointing Dec	41.267572	41.2669431805062	CCD I3 on	Y	Y
[deg] Pointing Roll	328.374434	328.5589939695508	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	384186630.184000	384185471.10247	CCD S5 on	N	N
Observation start date	2010-03-05T14:29:24	2010-03-05T14:11:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	384191630.184000	384192336.04032	On-chip summing requested	N	N
Observation end date	2010-03-05T15:52:44	2010-03-05T16:05:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	Y	Y
			[s] Primary exposure time	0.600000	0.6
			[s] Secondary exposure time	0.000000	3.2
			Duty cycle	5	5

2.3 Aspect



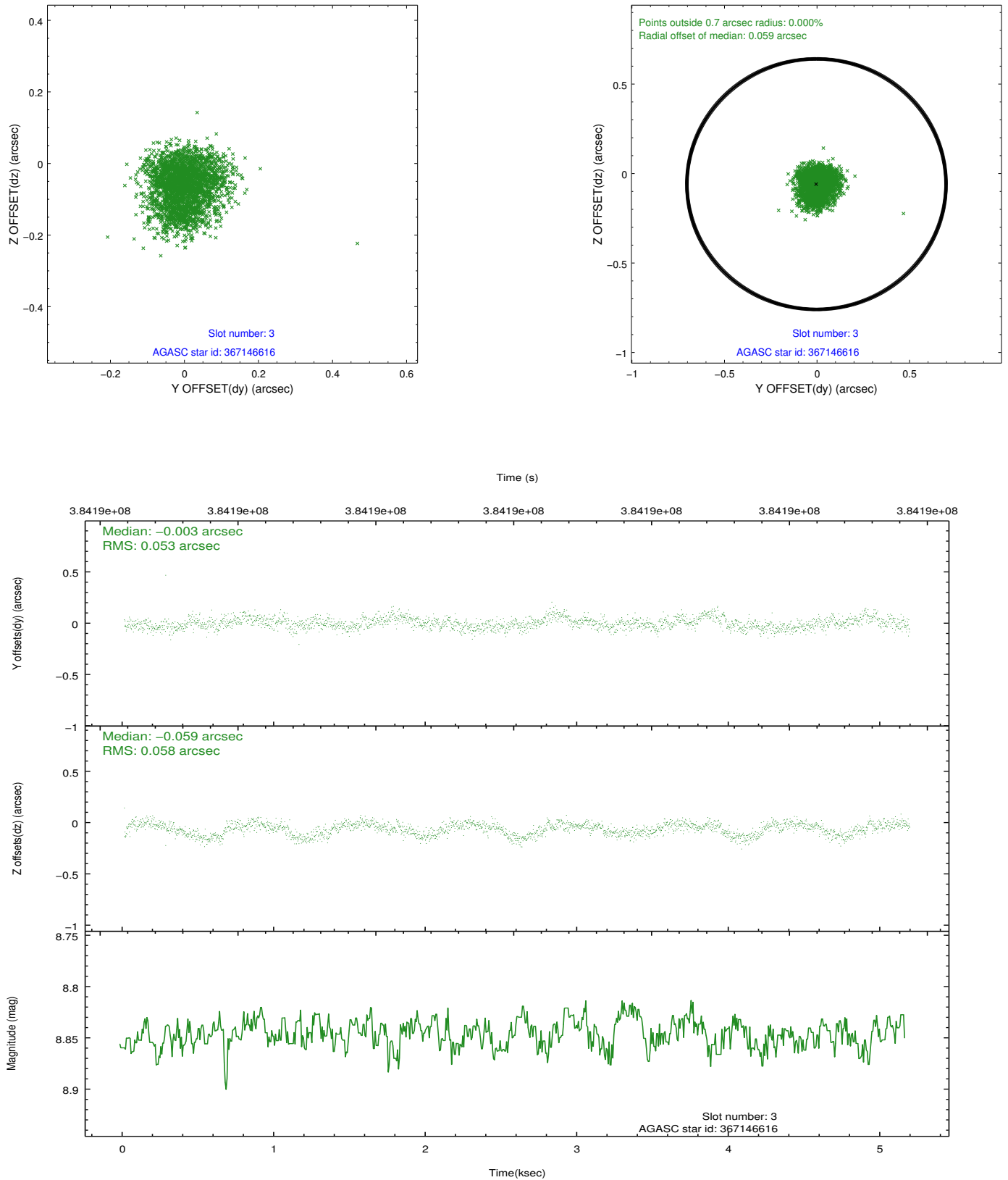


Slot Statistics

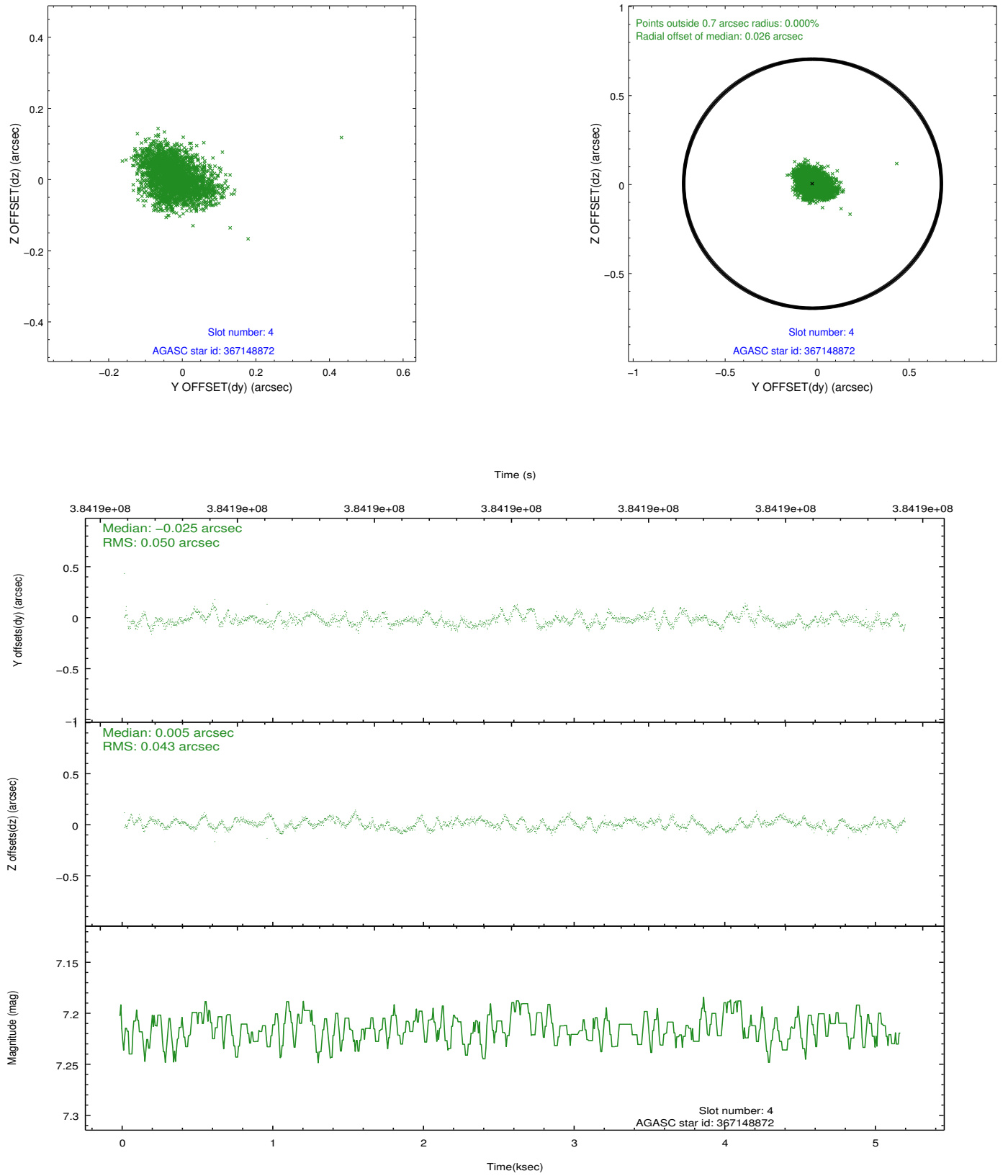
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.98	1264	-0.043	-0.017	0.008	0.012	0.000000	0.000000	924.15	-841.39
1	FID	ACIS-I-2	6.90	1264	-0.141	-0.041	0.005	0.009	0.000000	0.000000	-769.39	-848.48
2	FID	ACIS-I-4	6.91	1264	0.085	0.126	0.006	0.009	0.000000	0.000000	2143.59	1057.99
3	GUIDE	367146616	8.85	2529	-0.003	-0.059	0.084	0.131	11.418645	41.190163	1894.26	850.20
4	GUIDE	367148872	7.21	2529	-0.025	0.005	0.070	0.111	10.505940	40.688258	739.45	-1994.24
5	GUIDE	367663272	9.28	2528	-0.015	0.145	0.090	0.147	10.656279	41.699429	-821.20	1319.02
6	GUIDE	367674552	8.83	2529	-0.145	0.056	0.087	0.137	11.016238	41.570845	245.88	1436.99
7	GUIDE	367139648	8.21	2527	0.185	-0.139	0.074	0.121	11.021290	40.433909	2419.57	-2032.02

2.4 Star Slots

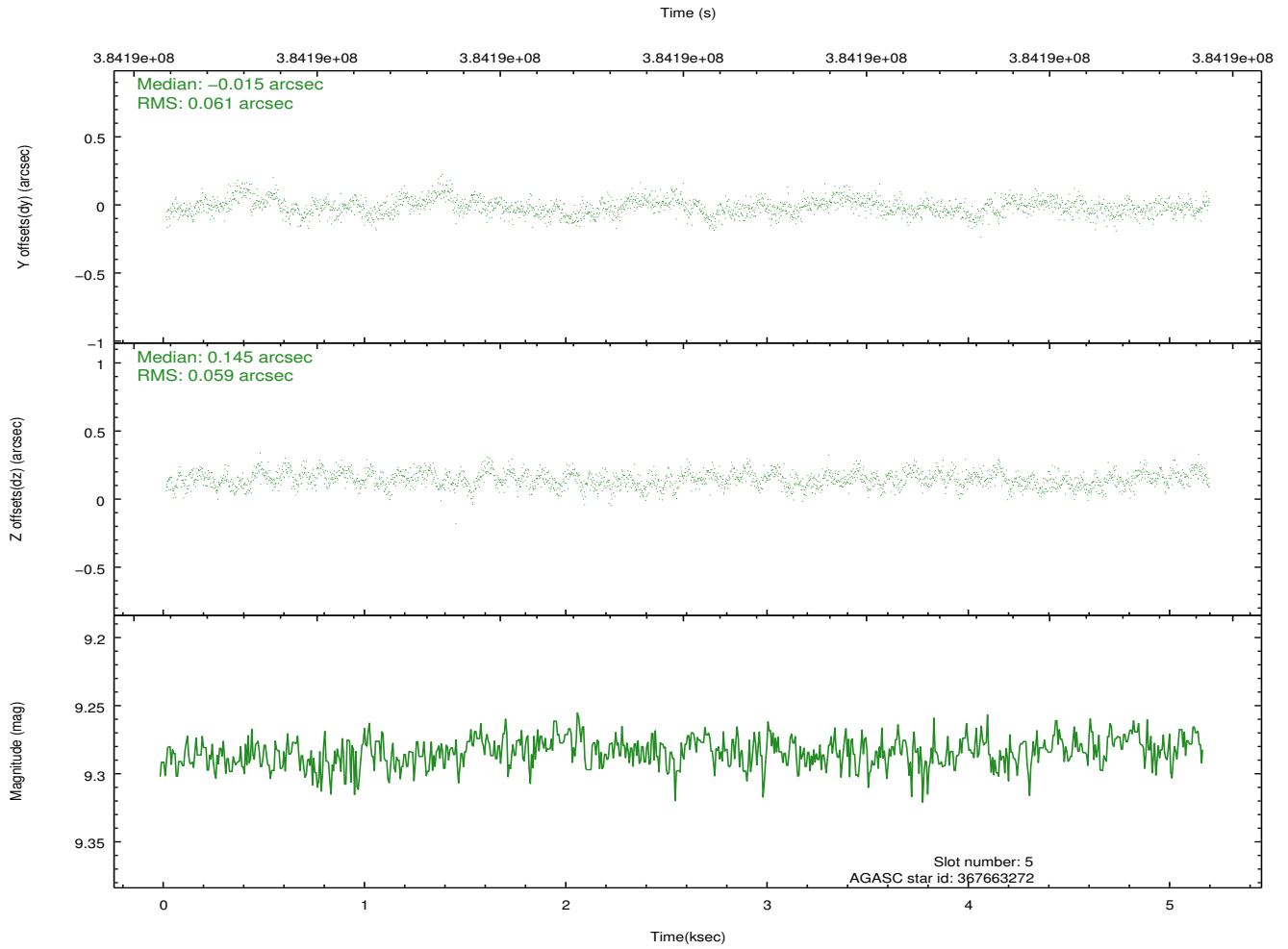
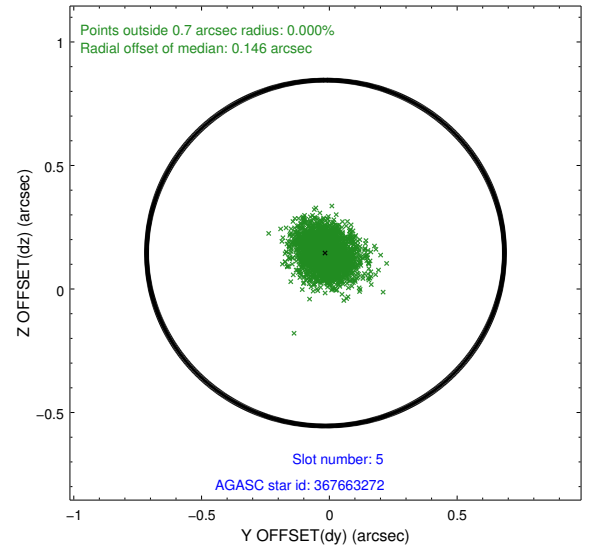
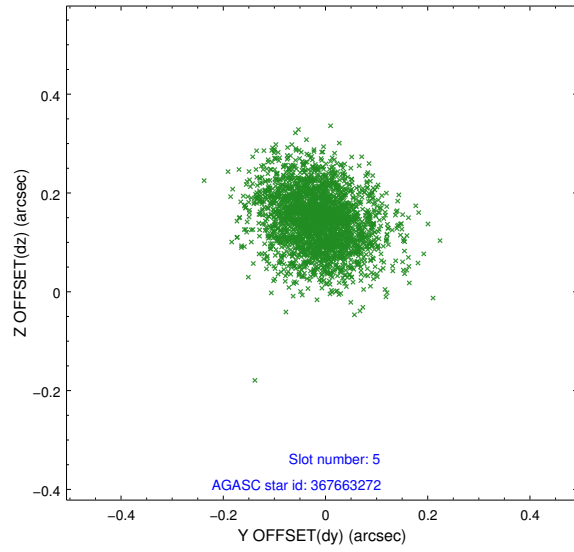
2.4.1 Slot 3



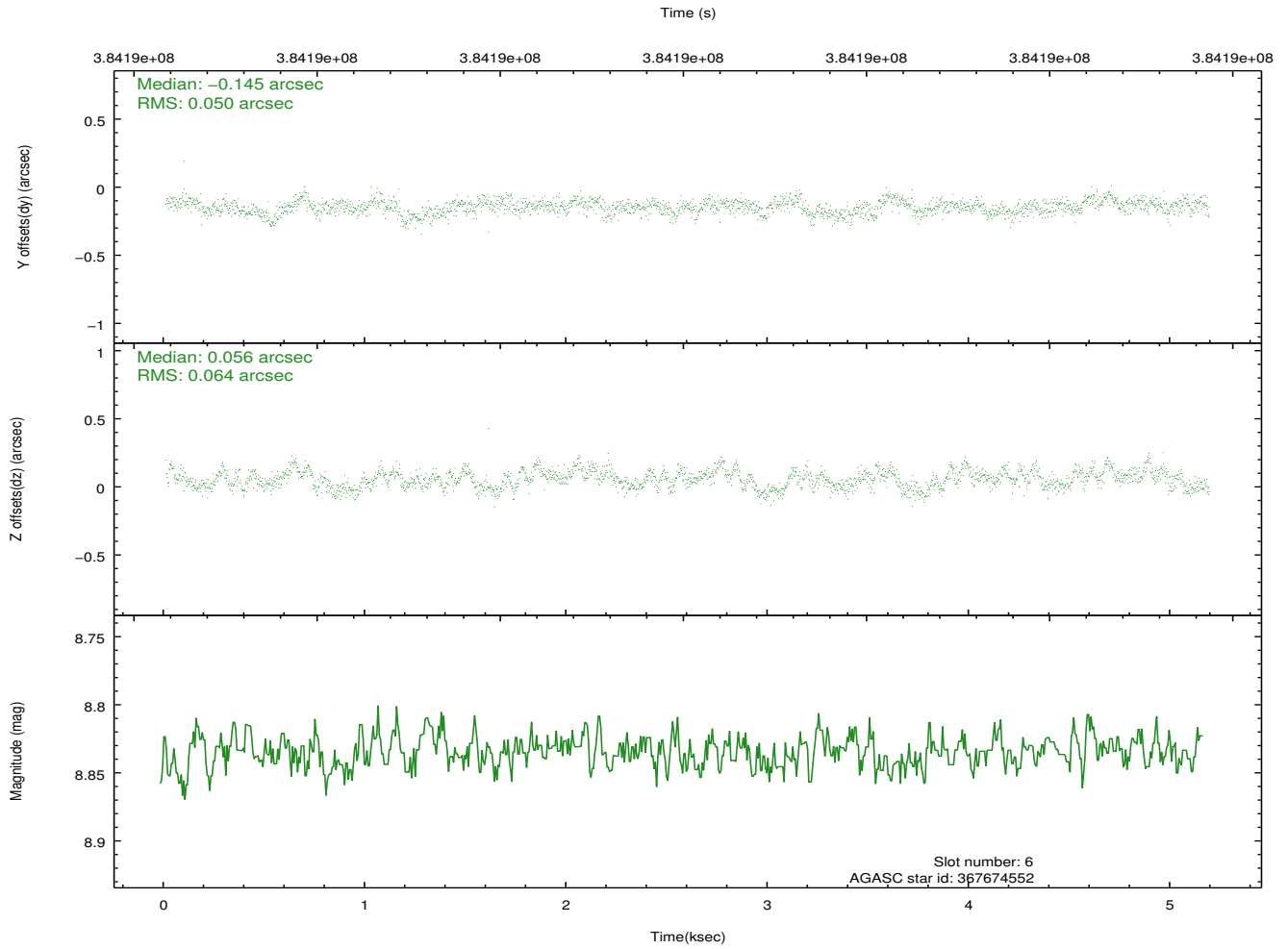
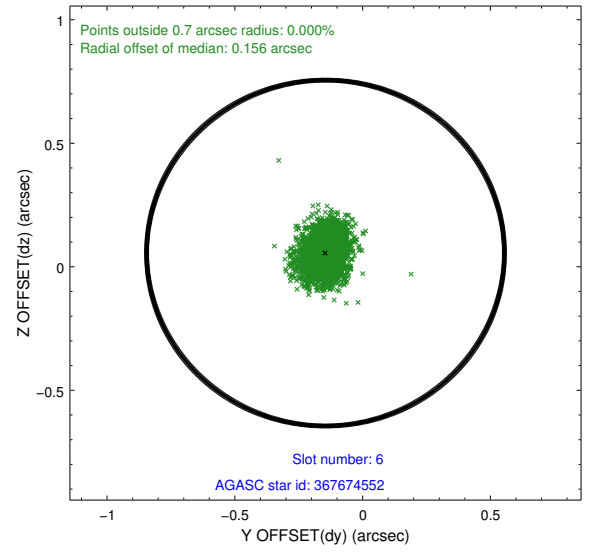
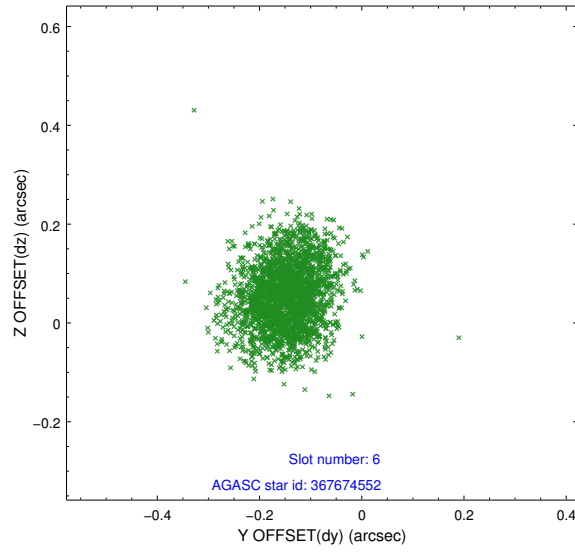
2.4.2 Slot 4



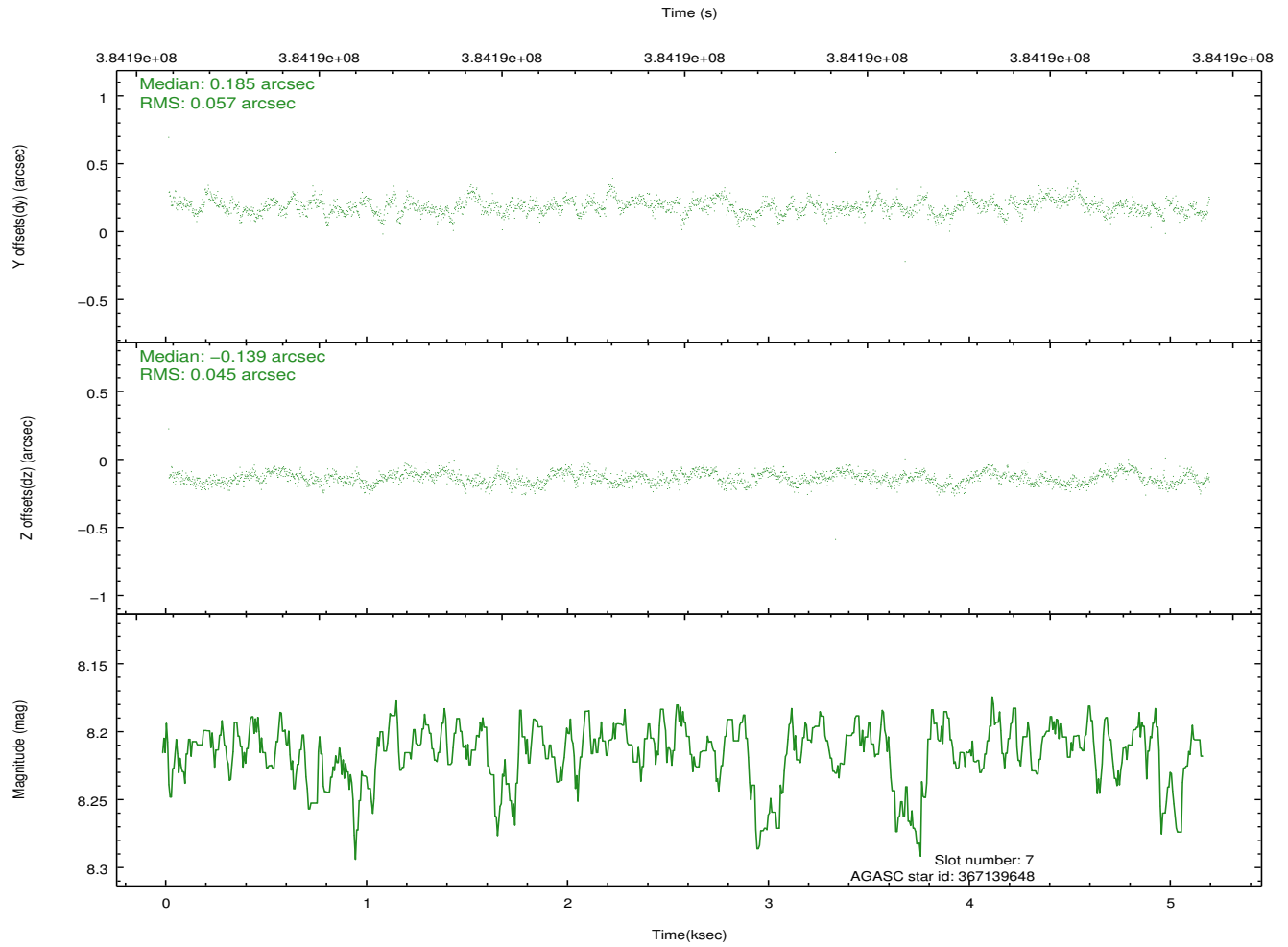
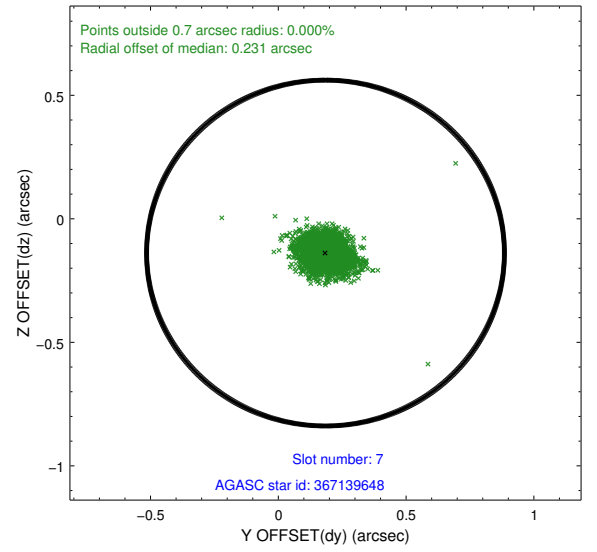
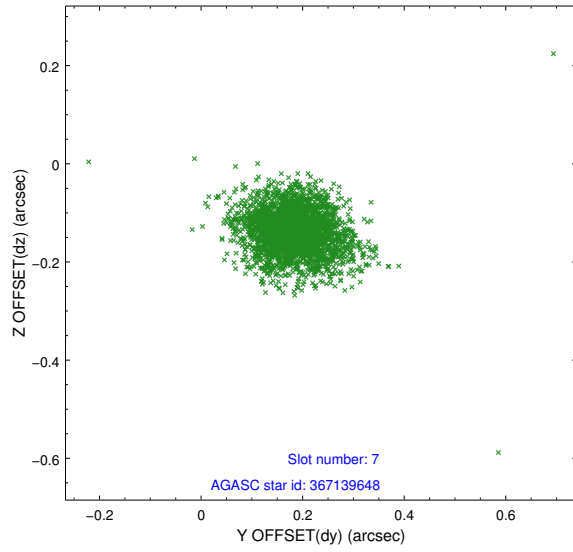
2.4.3 Slot 5



2.4.4 Slot 6

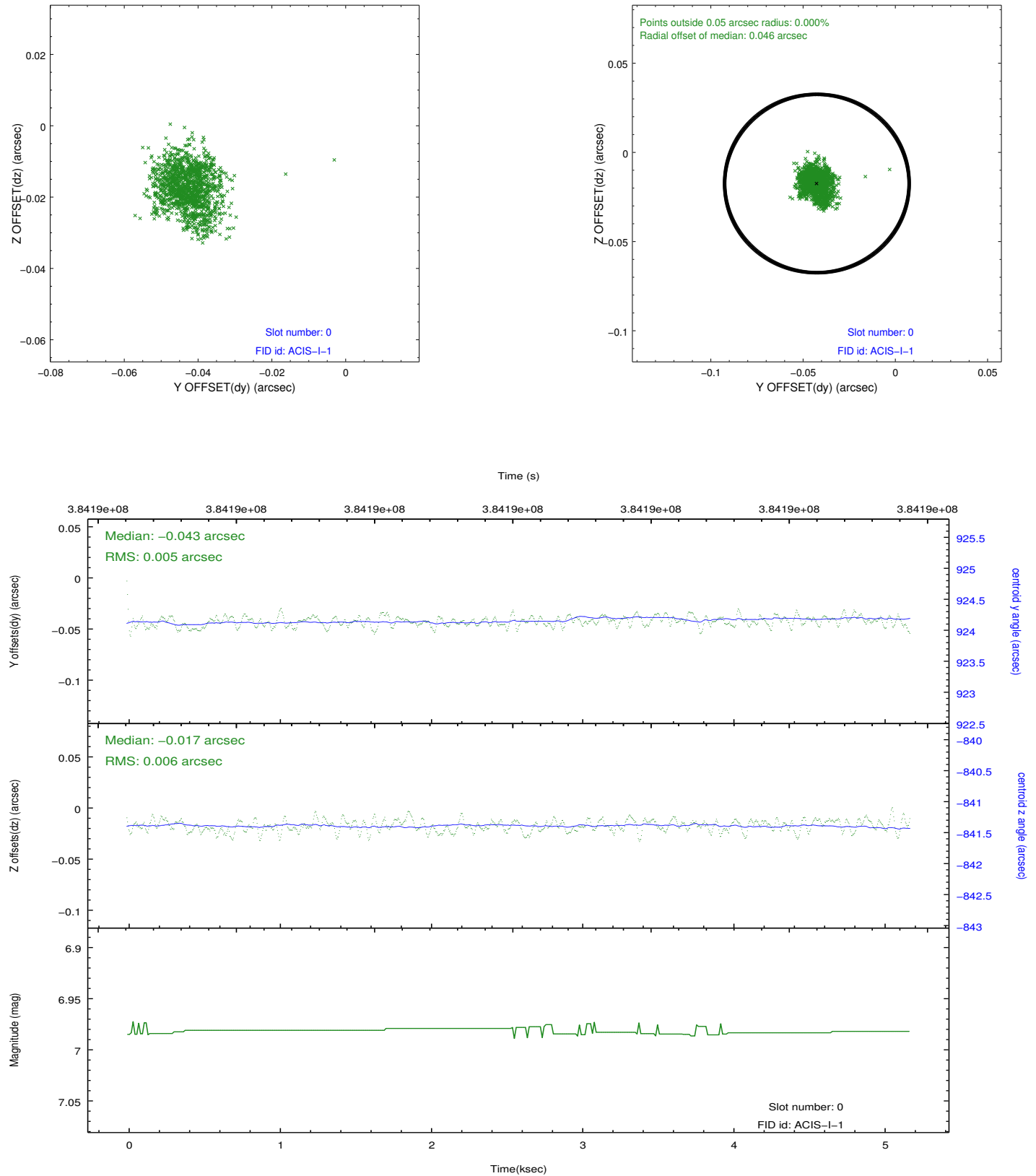


2.4.5 Slot 7

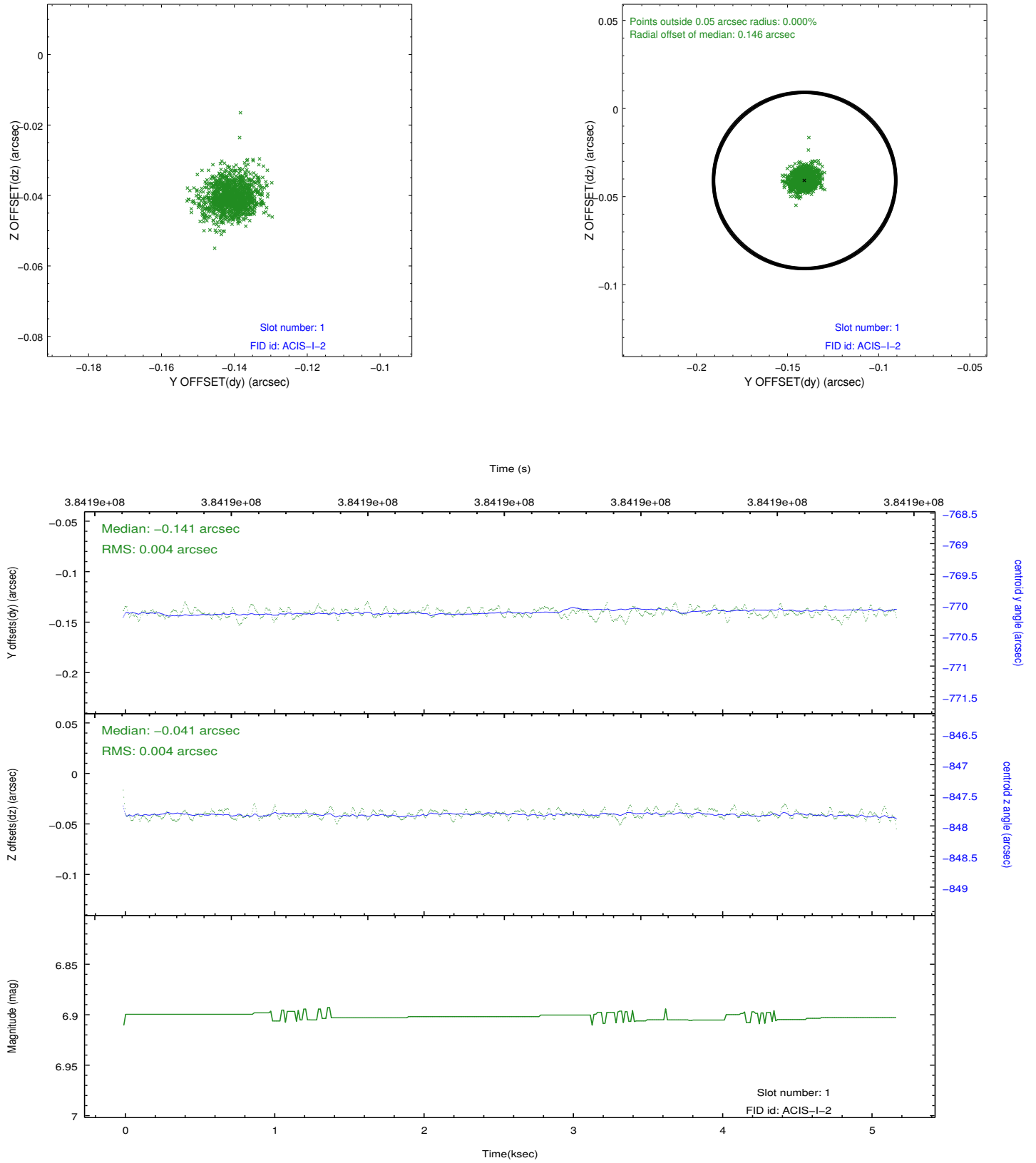


2.5 FID Slots

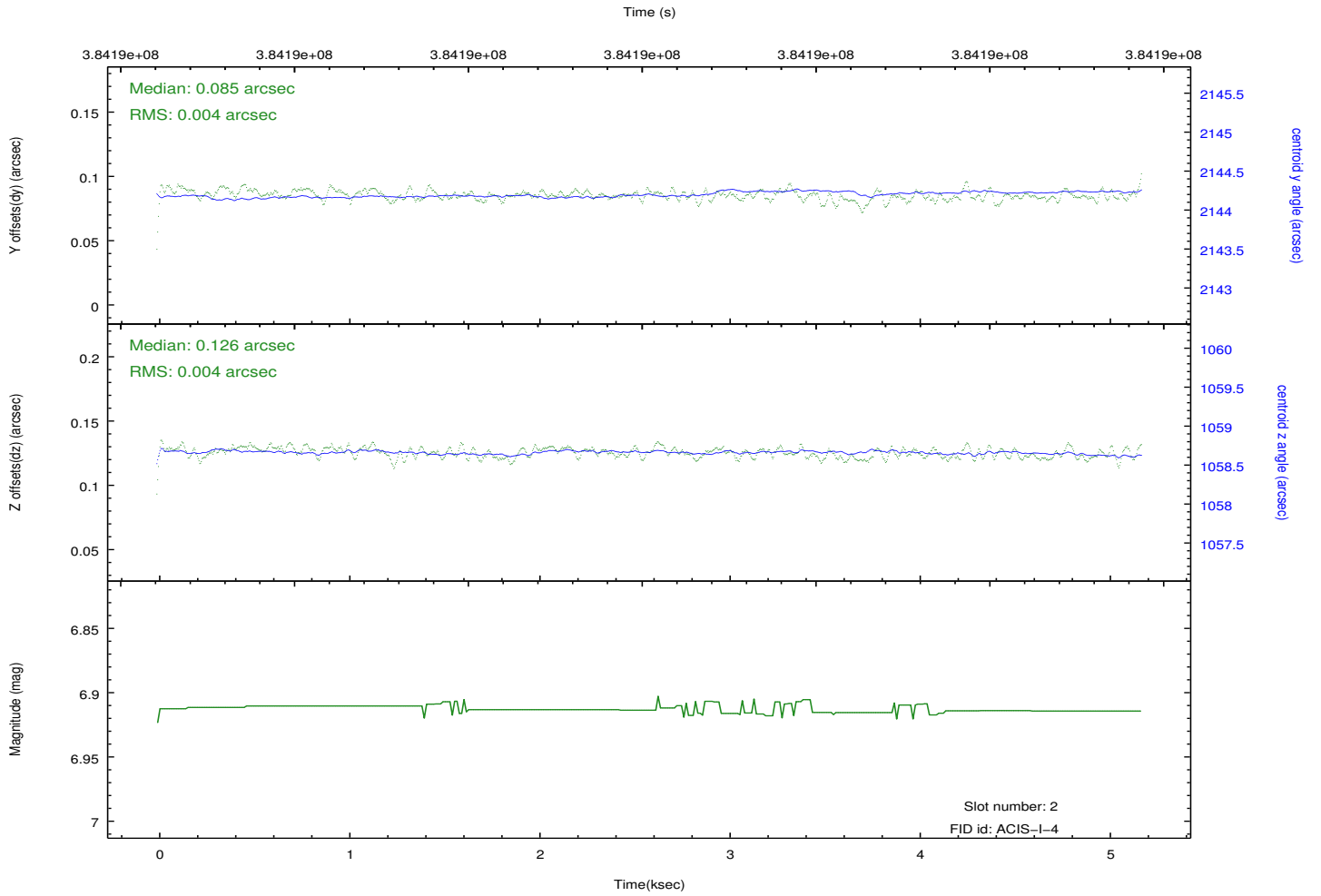
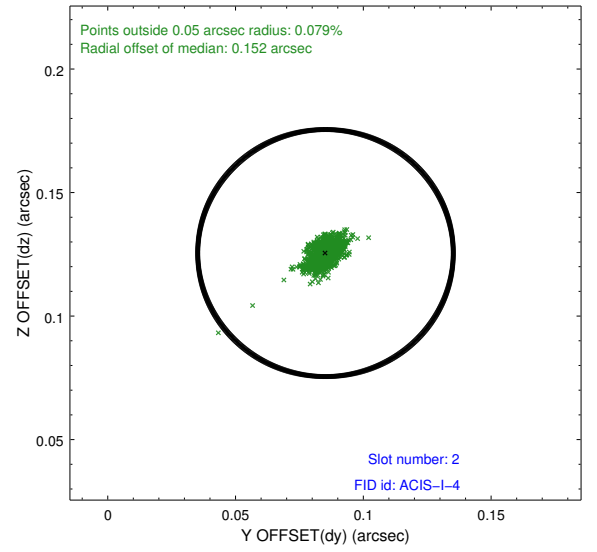
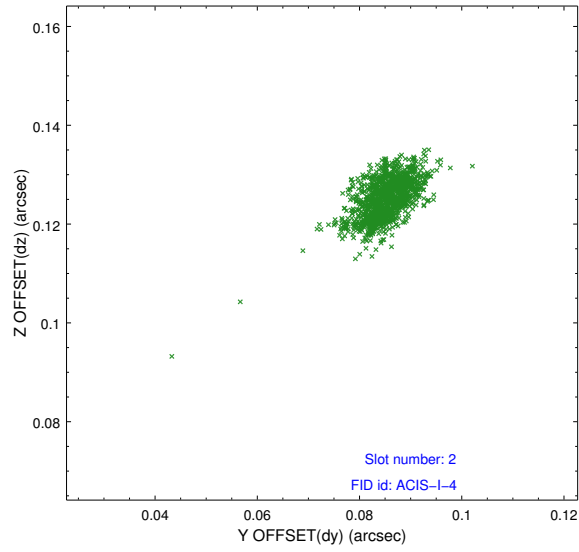
2.5.1 Slot 0



2.5.2 Slot 1



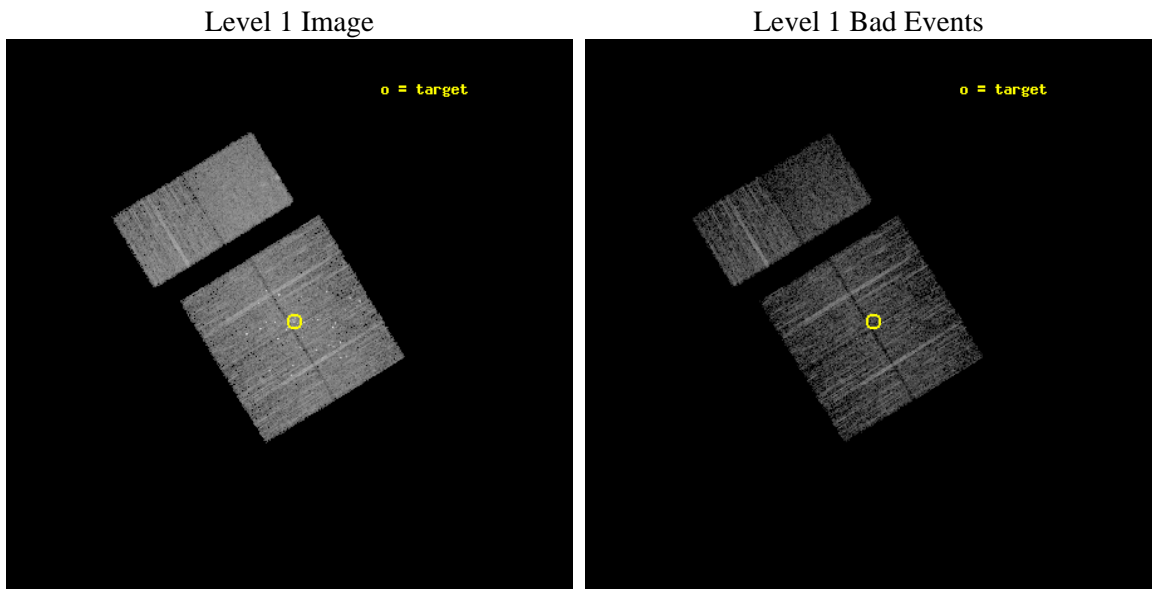
2.5.3 Slot 2



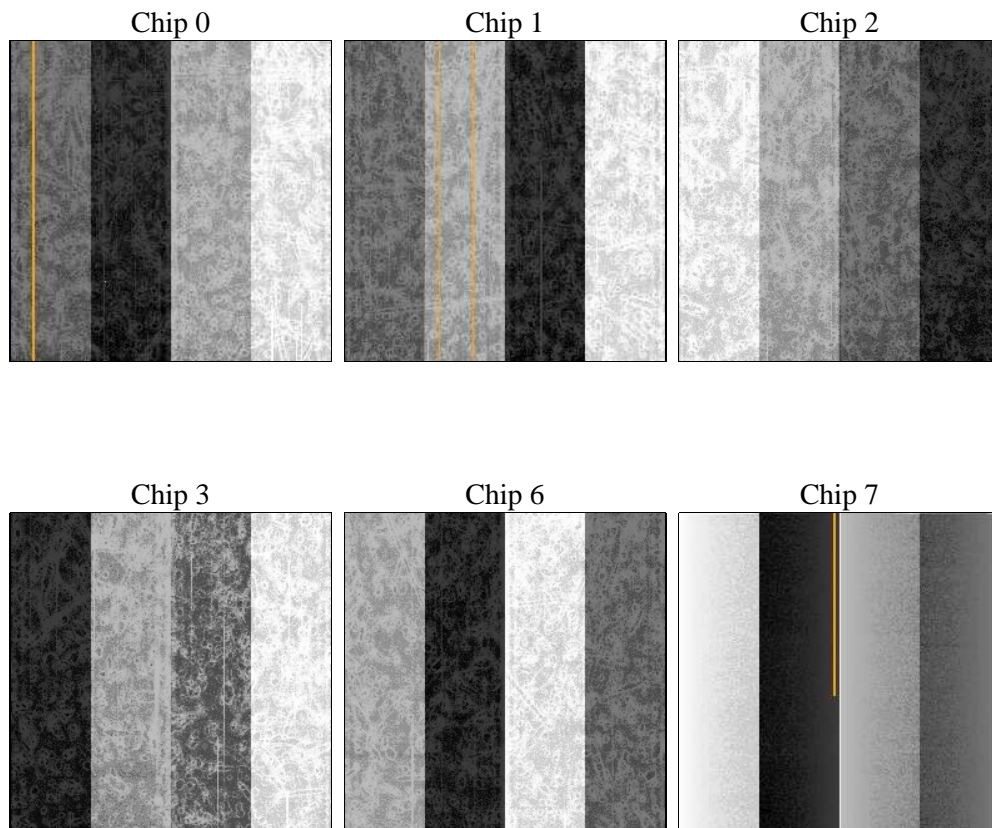
3 OBI Secondary

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	8.4.5	Processing system revision	ontime	4191.6913498044	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	4191.6908422112	Sum of GTIs [s]
date	2012-06-22T04:32:02	Date and time of file creation	ontime1	4191.6908723116	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4185.2092805505	Sum of GTIs [s]
			ontime3	4191.6913498044	Sum of GTIs [s]
			ontime6	4191.691101253	Sum of GTIs [s]
			ontime7	4191.6910808086	Sum of GTIs [s]
			l1events	221139	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	34279	36613	36771	35487	36302	41687	grade 0 events	2447	4875	3920	3590	1434	1932
rejected events	29237	28351	30090	29275	32472	22735		7%	13%	10%	10%	3%	4%
rejected %	85%	77%	81%	82%	89%	54%	grade 1 events	68	122	55	80	32	56
								0%	0%	0%	0%	0%	0%
							grade 2 events	1058	1447	1158	1058	841	3976
								3%	3%	3%	2%	2%	9%
							grade 3 events	470	551	504	445	416	1775
								1%	1%	1%	1%	1%	4%
							grade 4 events	417	619	479	475	408	1731
								1%	1%	1%	1%	1%	4%
							grade 5 events	1413	1462	1252	1520	1527	4405
								4%	3%	3%	4%	4%	10%
							grade 6 events	761	945	744	746	801	9864
								2%	2%	2%	2%	2%	23%
							grade 7 events	27645	26592	28659	27573	30843	17948
								80%	72%	77%	77%	84%	43%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1710104729533

A.2 Comments

Joint proposal with HST.