

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3905 - L2 Version 3
Chandra X-Ray Center

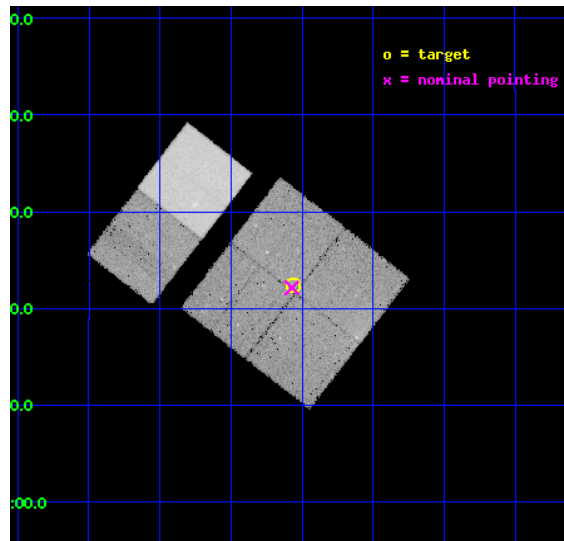
L2 Processing Date : Nov 9 2012

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1 Front

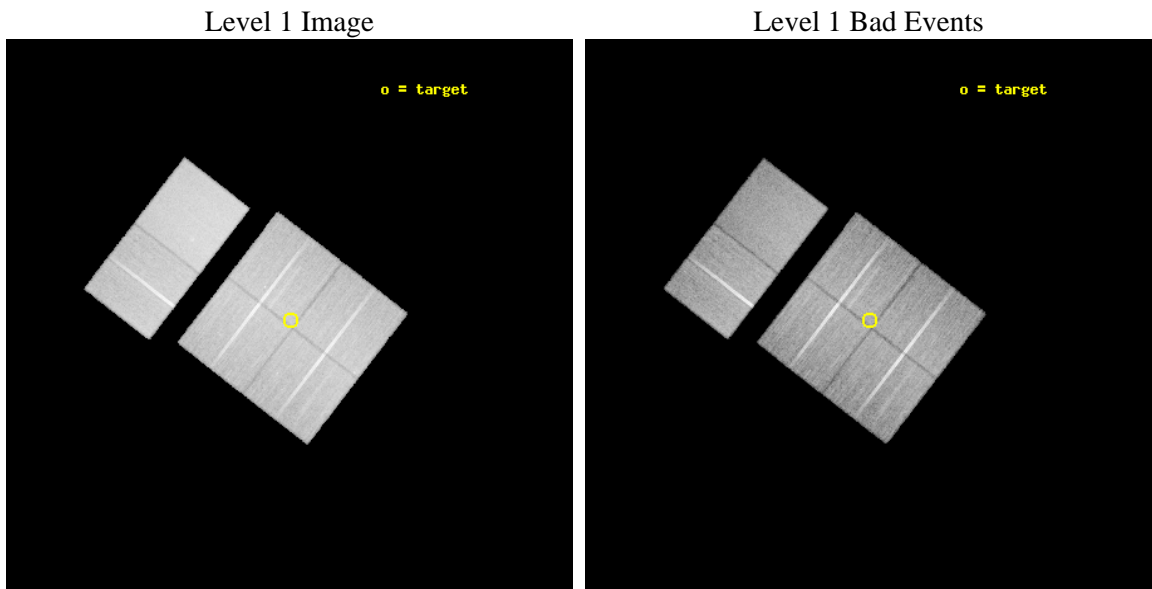
seq_num	500384	Sequence number
obs_id	3905	Observation id
title	THE ORIGIN OF X-RAY RICH GAMMA-RAY BURSTS: HIGH-Z EVENTS AND NEW COSMIC EXPLOSIONS	Proposal title
observer	Dr Luigi Piro	Principal investigator
object	GRB031220	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.891667	Observer's specified target RA [deg]
dec_targ	7.373611	Observer's specified target Dec [deg]
ra_nom	69.89287721017	Nominal RA [deg]
dec_nom	7.3691160456192	Nominal Dec [deg]
roll_nom	307.7555273841	Nominal Roll [deg]
revision	3	Processing version of data
ontime	40175.999850333	Sum of GTIs [s]
livetime	39667.267149145	Livetime [s]
ontime0	40175.999850333	Sum of GTIs [s]
ontime1	40175.999850333	Sum of GTIs [s]
ontime2	40175.999850333	Sum of GTIs [s]
ontime3	40175.999850333	Sum of GTIs [s]
ontime6	40172.758840144	Sum of GTIs [s]
ontime7	40175.999850333	Sum of GTIs [s]
l2events	264311	Number of level 2 events



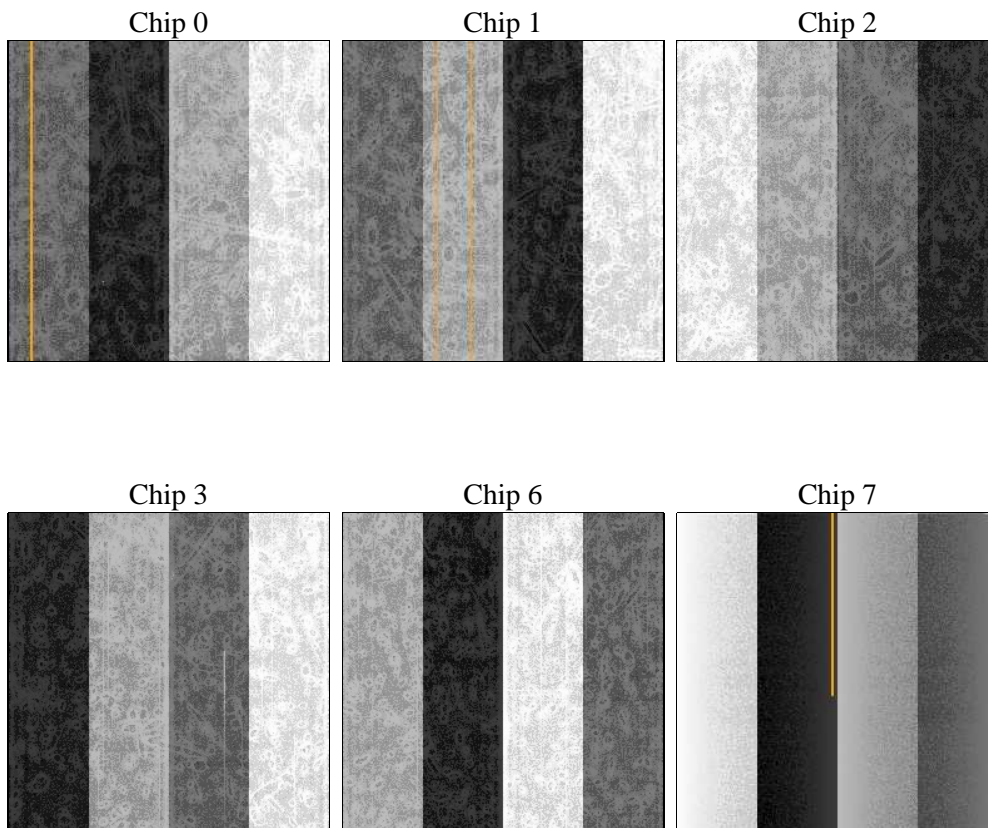
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40175.999850333	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	40175.999850333	Sum of GTIs [s]
date	2012-11-09T15:36:28	Date and time of file creation	ontime1	40175.999850333	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	40175.999850333	Sum of GTIs [s]
			ontime3	40175.999850333	Sum of GTIs [s]
			ontime6	40172.758840144	Sum of GTIs [s]
			ontime7	40175.999850333	Sum of GTIs [s]
			l1events	1534183	Number of level 1 events

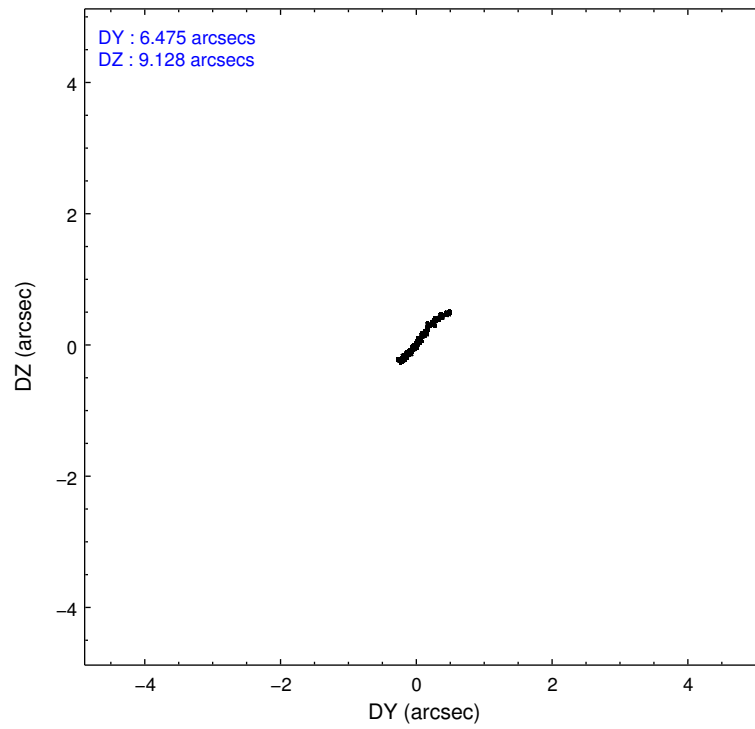
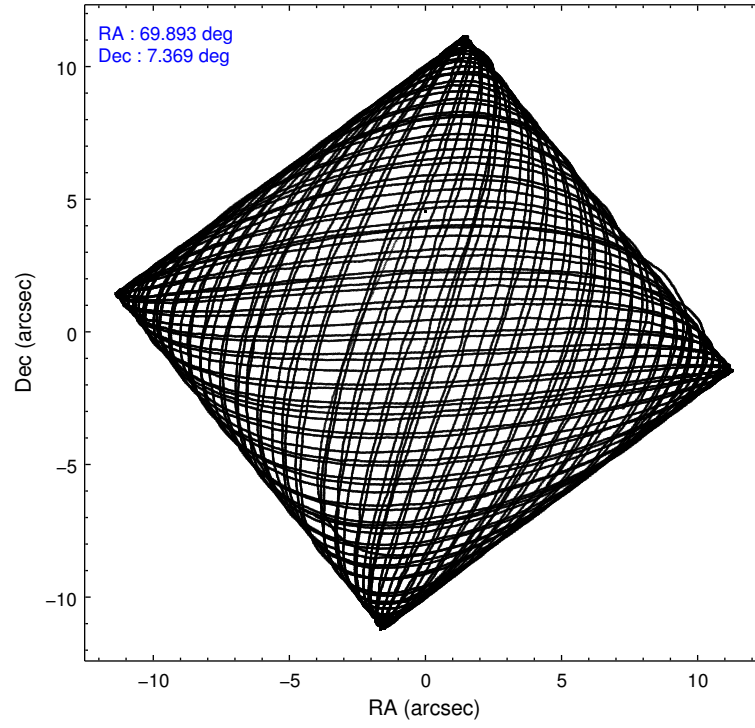
2.1.4 Events

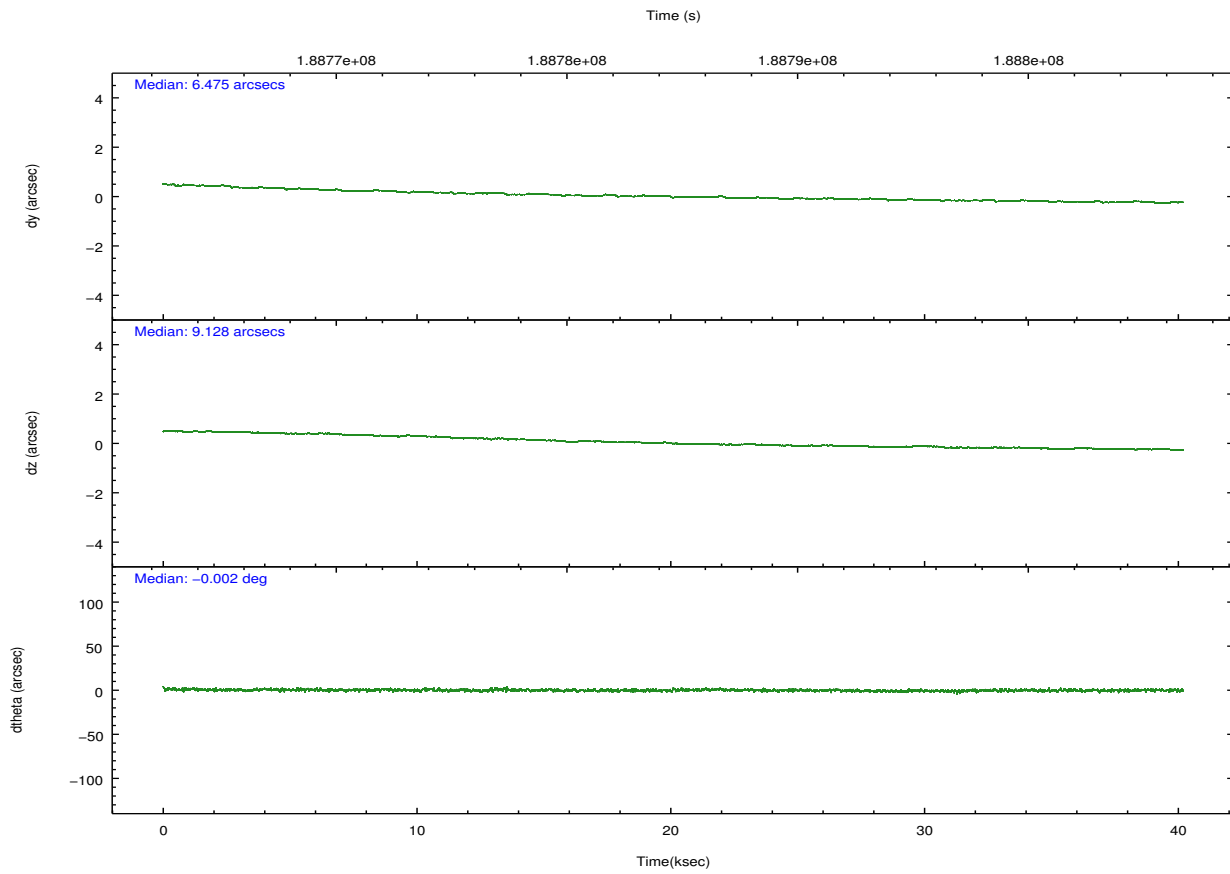
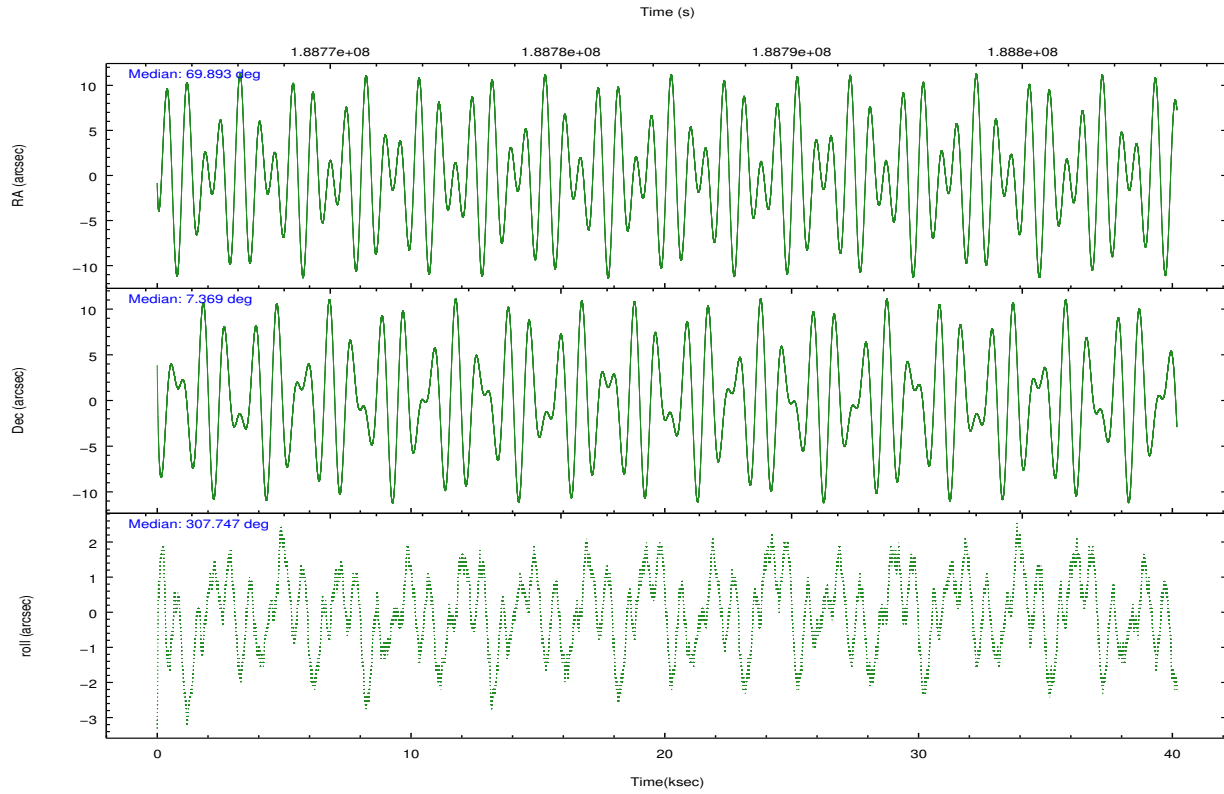
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	228540	231547	244088	240012	254921	335075	grade 0 events	13586	13642	13027	12920	11724	12227
rejected events	197839	198790	215101	210876	225095	198245		5%	5%	5%	5%	4%	3%
rejected %	86%	85%	88%	87%	88%	59%	grade 1 events	140	103	178	128	125	321
								0%	0%	0%	0%	0%	0%
							grade 2 events	6444	6929	5989	5531	6254	27115
								2%	2%	2%	2%	2%	8%
							grade 3 events	2964	3138	2681	2829	2949	12207
								1%	1%	1%	1%	1%	3%
							grade 4 events	2727	3074	2663	2878	2917	12162
								1%	1%	1%	1%	1%	3%
							grade 5 events	10167	10962	9755	11131	11898	31613
								4%	4%	3%	4%	4%	9%
							grade 6 events	5165	6162	4815	5169	6174	73941
								2%	2%	1%	2%	2%	22%
							grade 7 events	187347	187537	204980	199426	212880	165489
								81%	80%	83%	83%	83%	49%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	69.867265	69.89287721016969	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.379396	7.369116045619172	Alternating exposures requested	N	N
[deg] Pointing Roll	307.550135	307.7555273840951	[s] Primary exposure time	0.000000	3.2
[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)	188764692.184000	188763505.38702			
Observation start date	2003-12-25T18:37:08	2003-12-25T18:18:25			
[s] Observation end time (MET)	188804692.184000	188805561.65135			
Observation end date	2003-12-26T05:43:48	2003-12-26T05:59:21			
Read mode	TIMED	TIMED			

2.3 Aspect



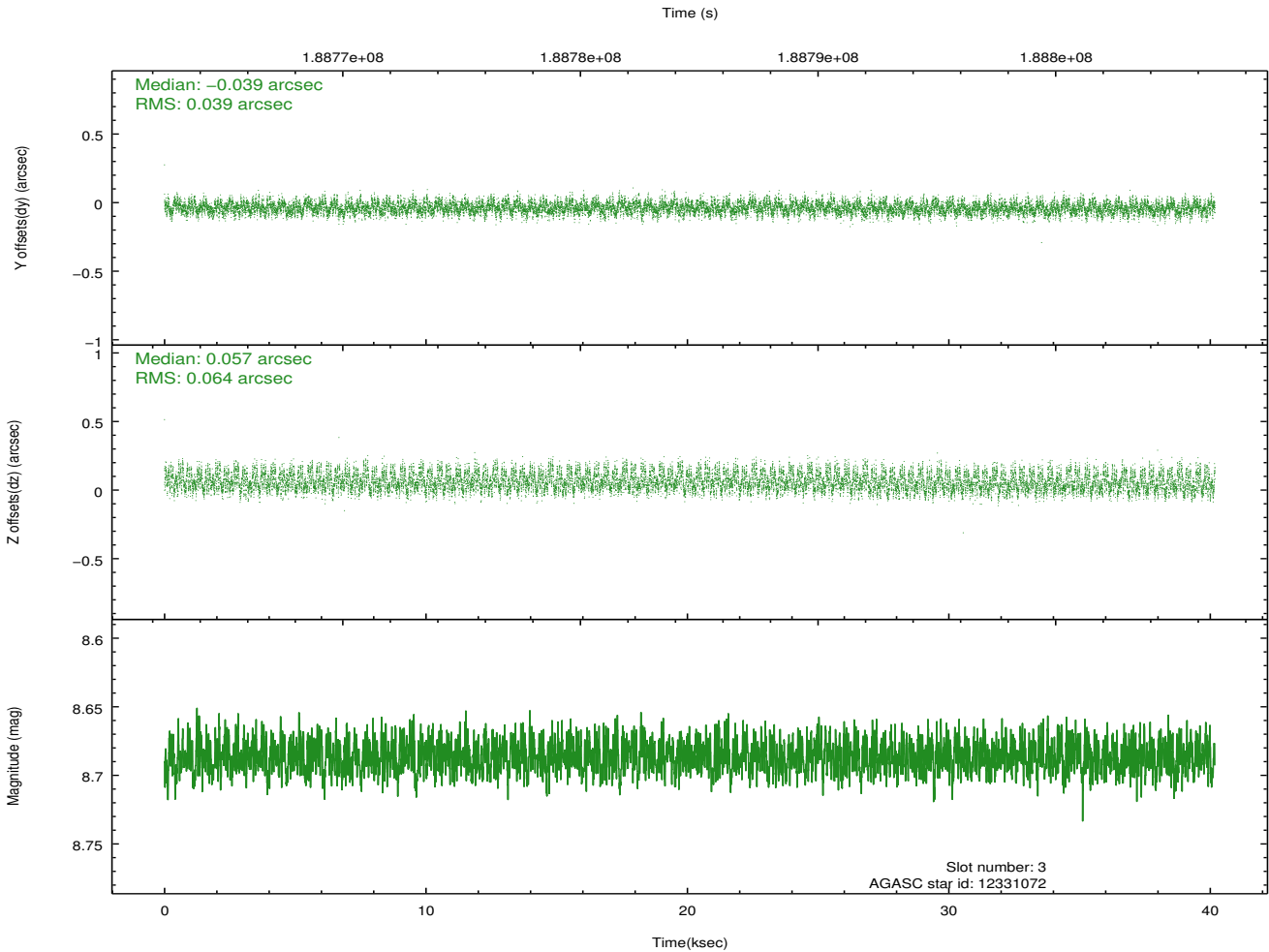
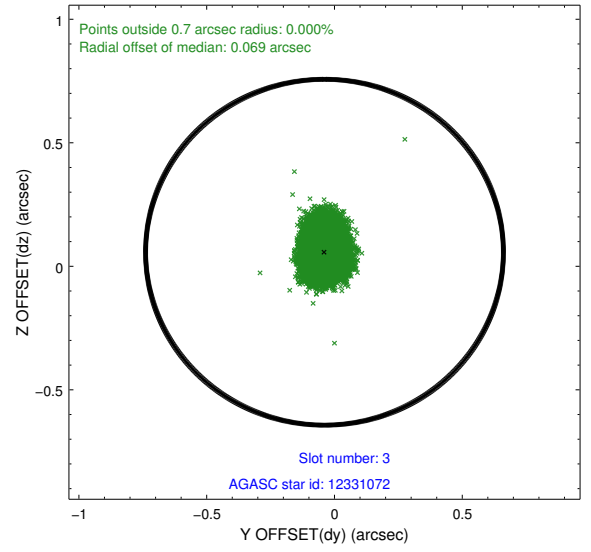
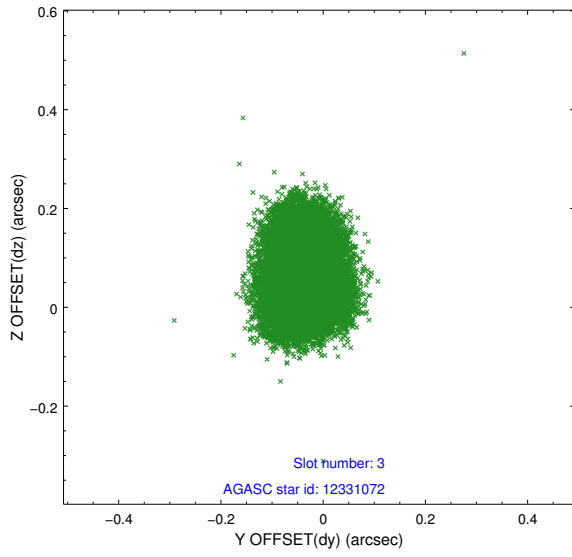


Slot Statistics

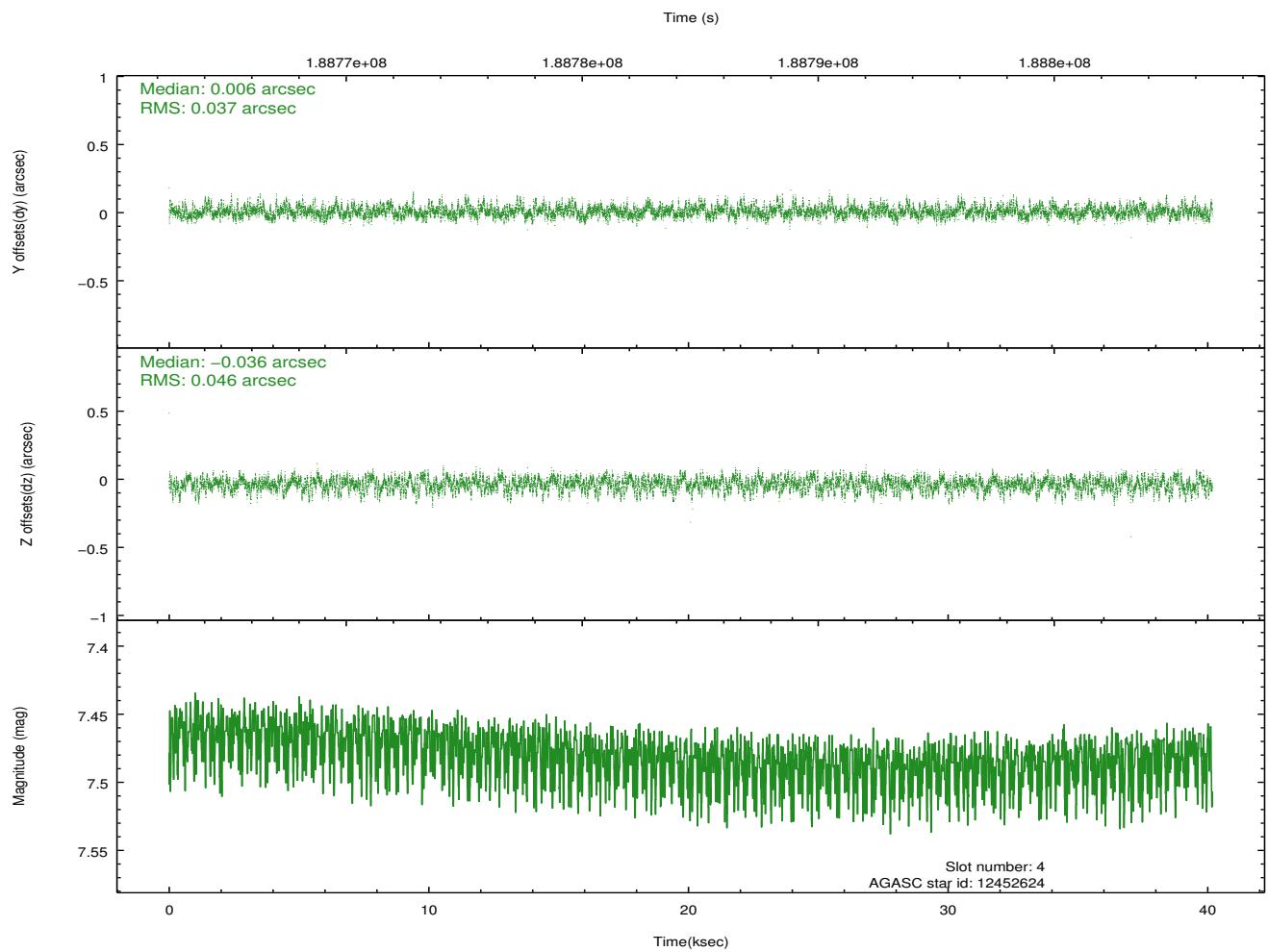
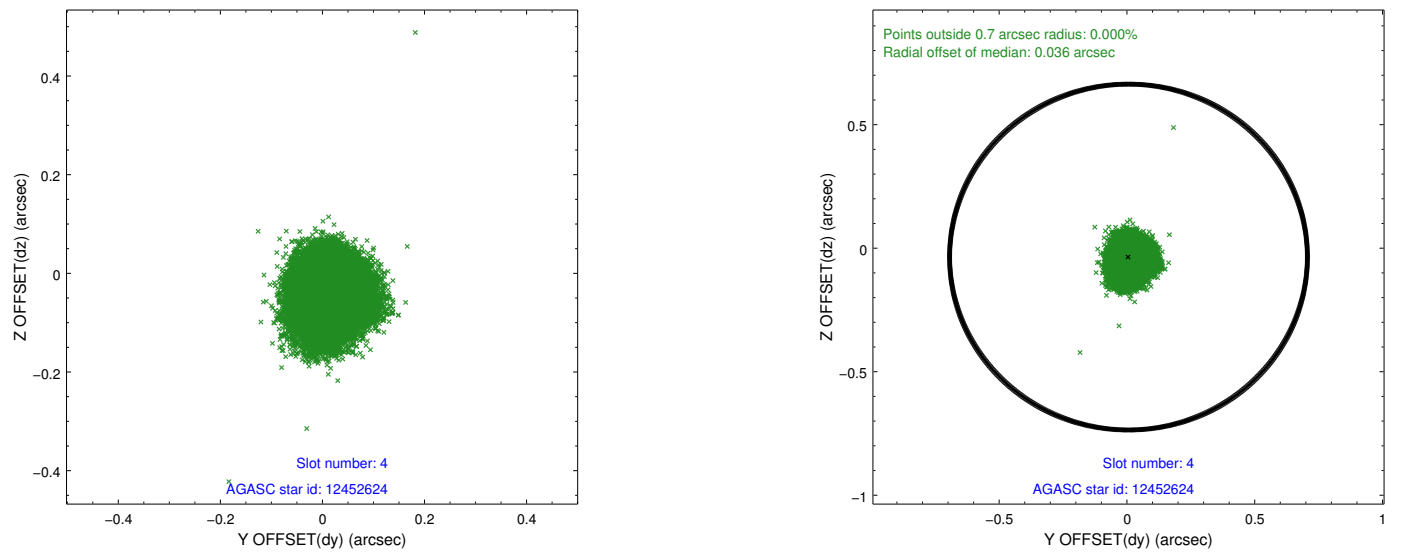
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	9801	-0.067	0.089	0.011	0.018	0.000000	0.000000	933.12	-832.55
1	FID	ACIS-I-2	7.14	9800	-0.092	-0.070	0.011	0.018	0.000000	0.000000	-760.99	-839.15
2	FID	ACIS-I-4	7.18	9800	0.063	0.049	0.011	0.018	0.000000	0.000000	2153.13	1067.20
3	GUIDE	12331072	8.69	19593	-0.039	0.057	0.080	0.126	69.220131	7.248777	-1036.50	-2117.60
4	GUIDE	12452624	7.48	19600	0.006	-0.036	0.063	0.101	69.476403	7.317631	-674.38	-1241.56
5	GUIDE	12455320	8.61	19597	0.078	0.003	0.064	0.105	69.662131	6.874787	993.97	-1687.91
6	GUIDE	12456440	8.12	19600	0.036	-0.063	0.056	0.091	69.999650	7.271253	597.07	137.84
7	GUIDE	89403544	7.89	19601	-0.083	0.042	0.060	0.097	69.809992	7.987097	-1858.89	1171.58

2.4 Star Slots

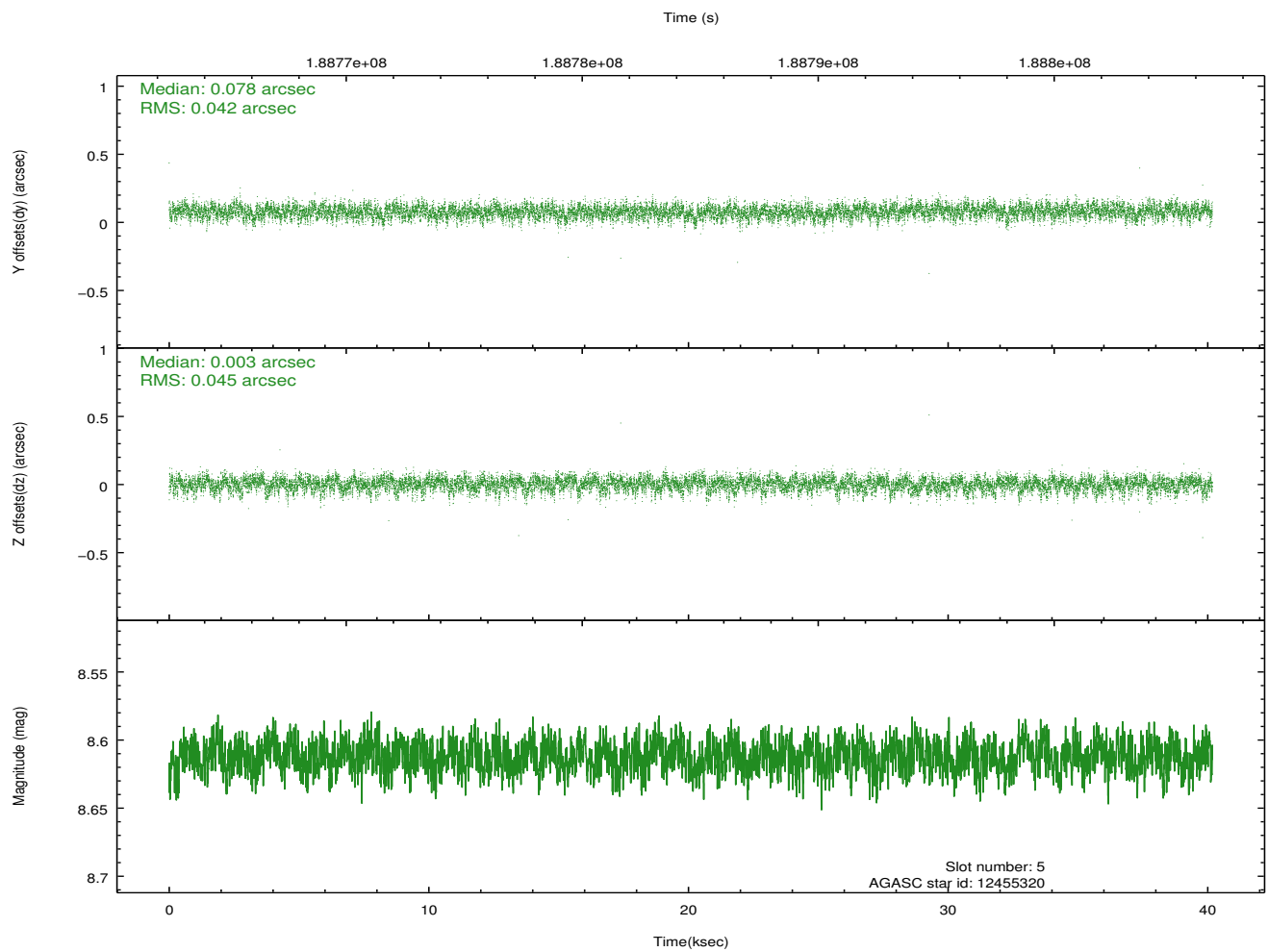
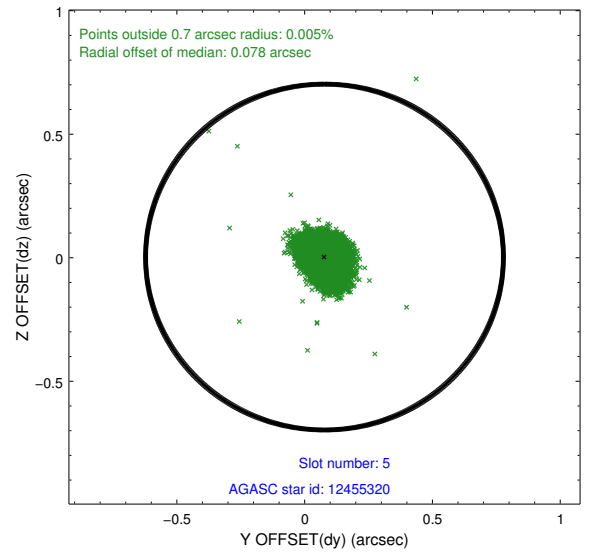
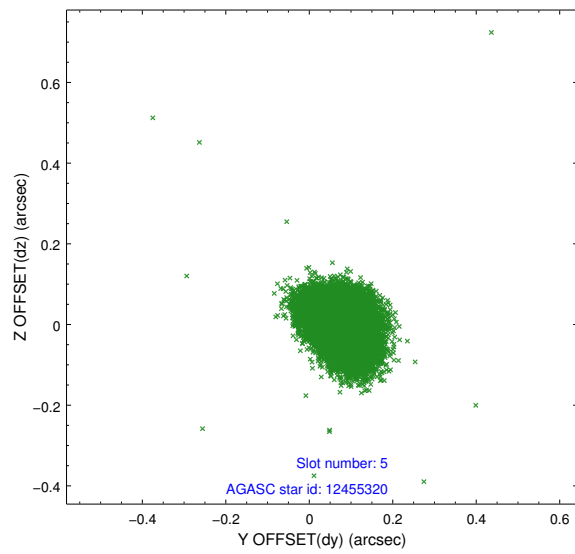
2.4.1 Slot 3



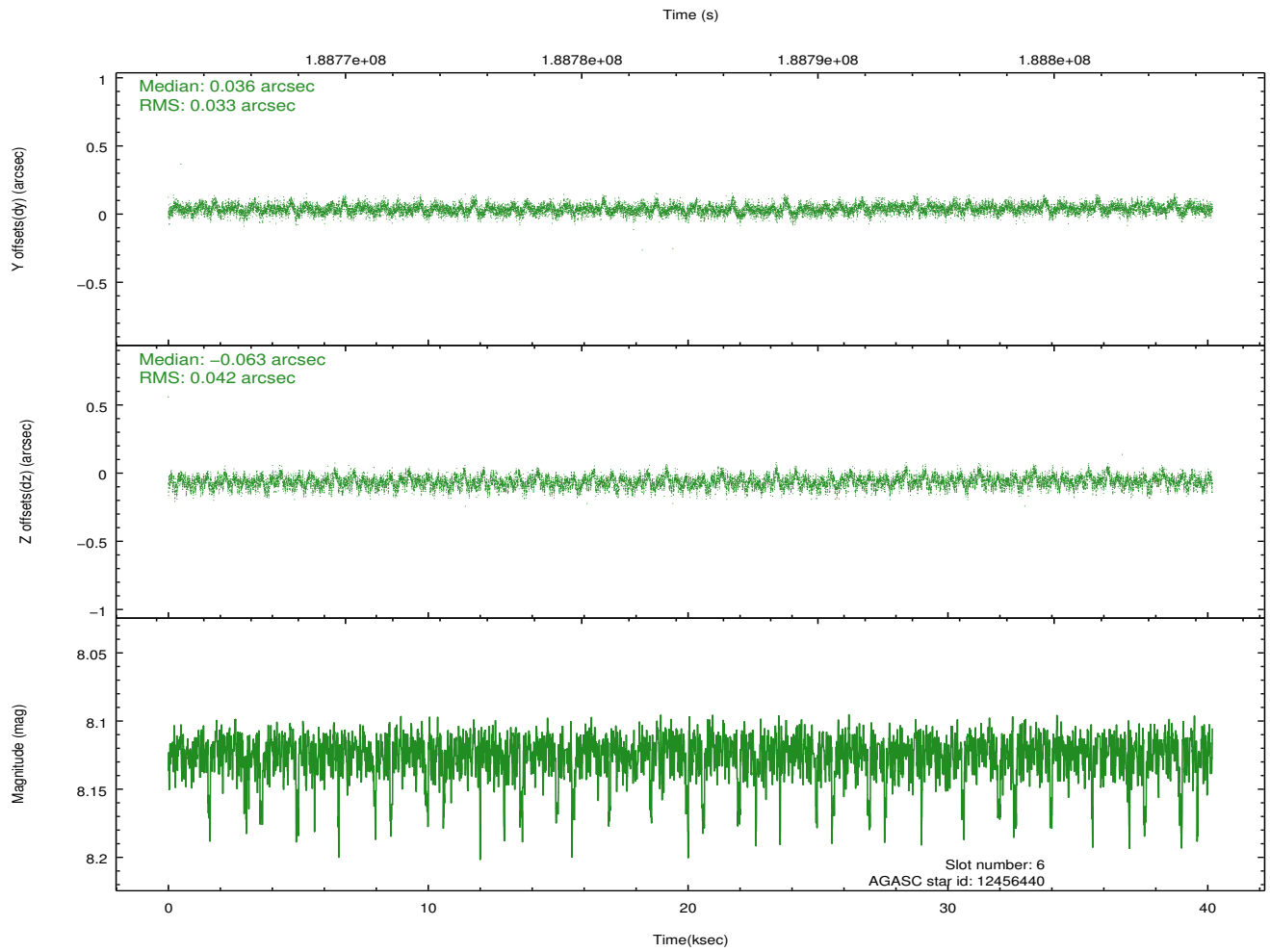
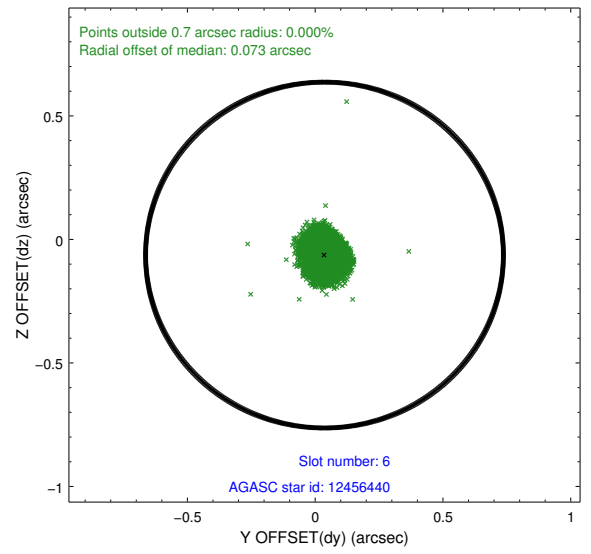
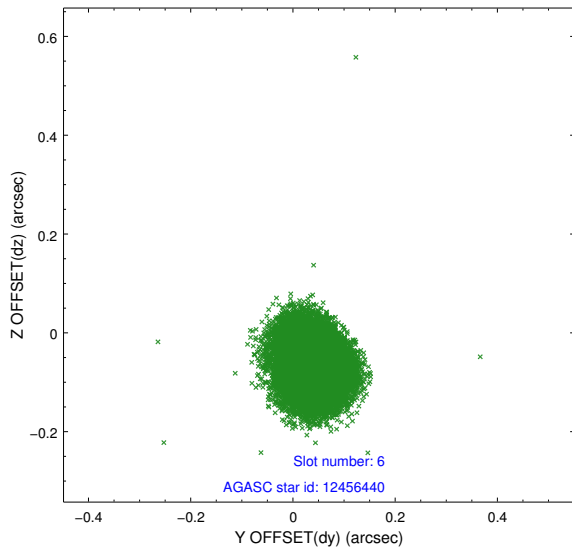
2.4.2 Slot 4



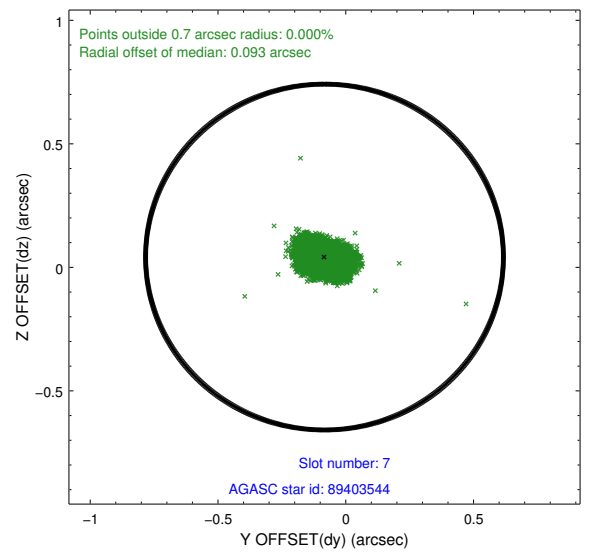
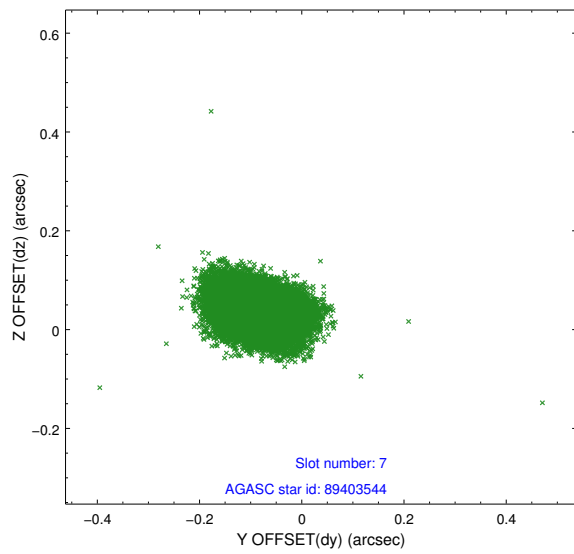
2.4.3 Slot 5



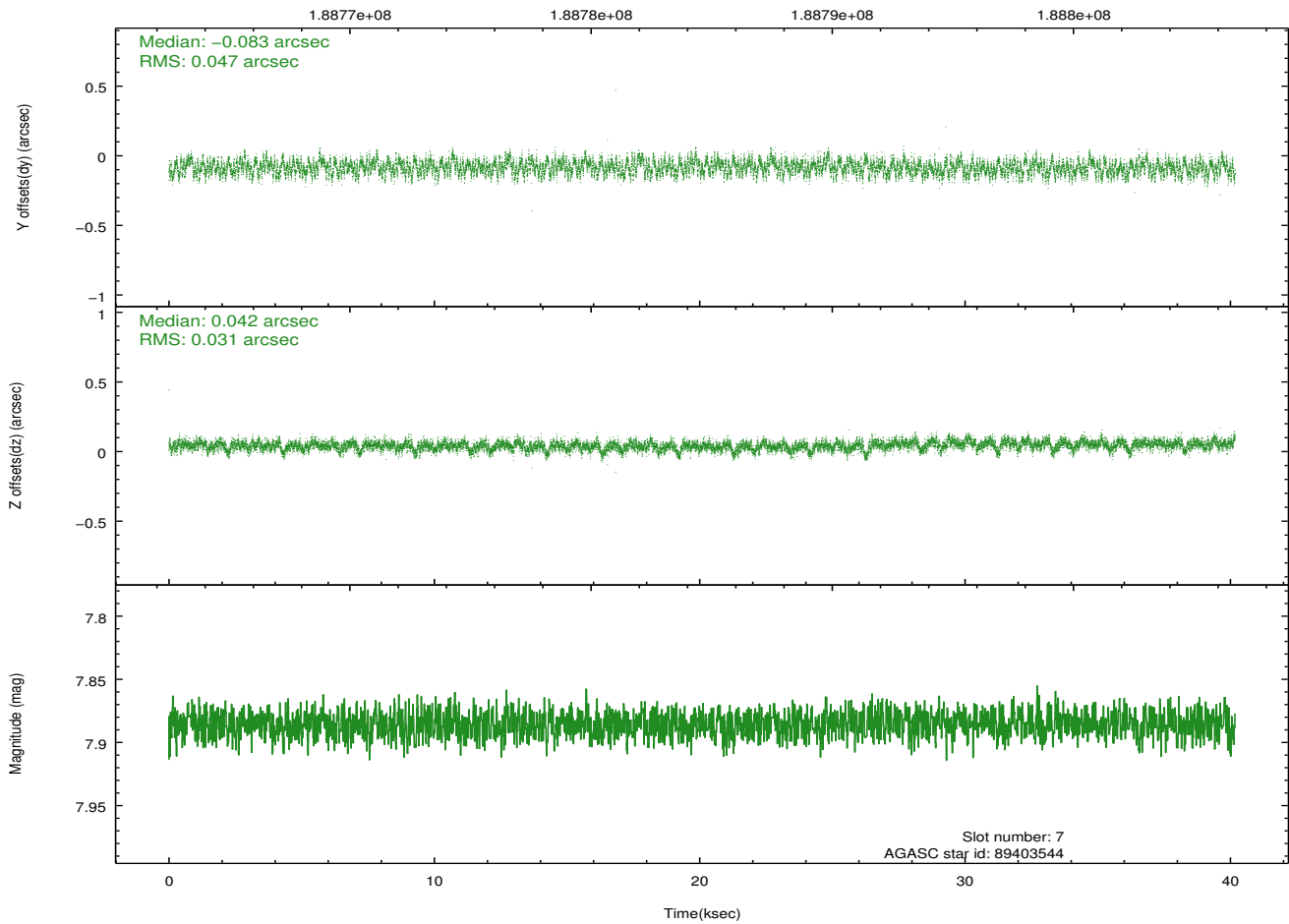
2.4.4 Slot 6



2.4.5 Slot 7

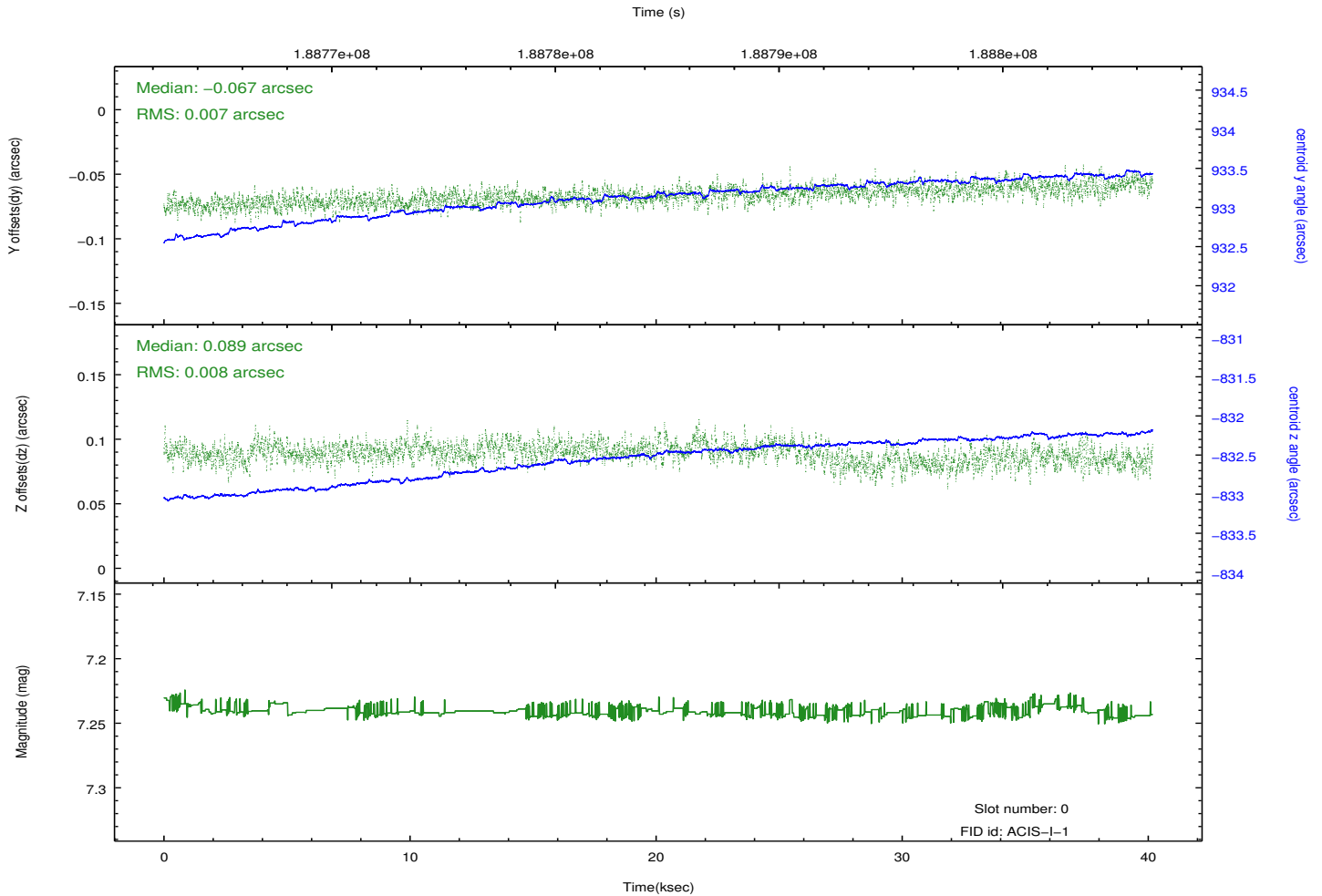
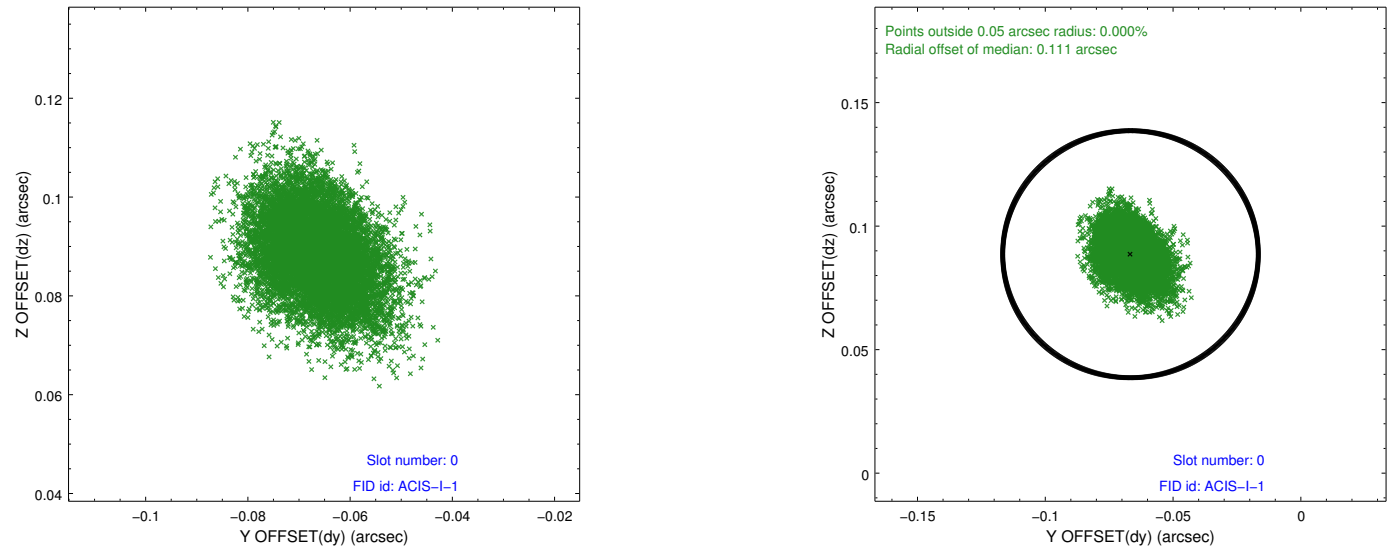


Time (s)

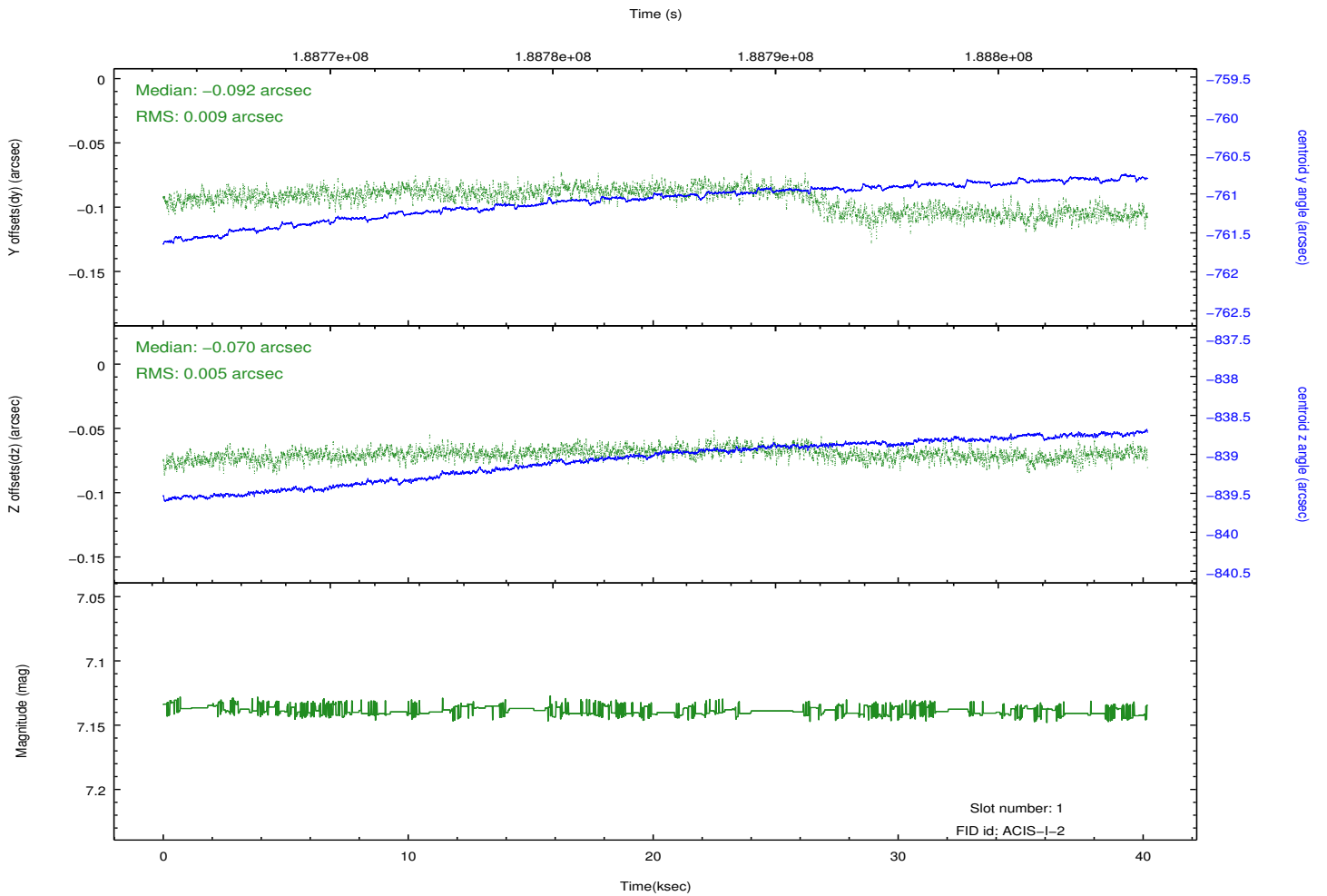
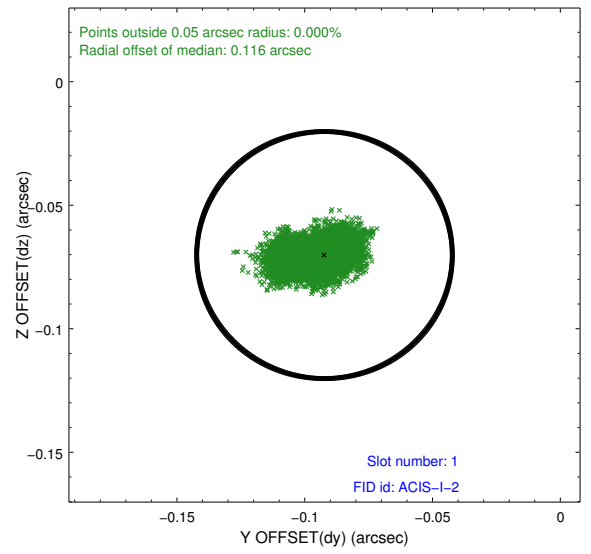
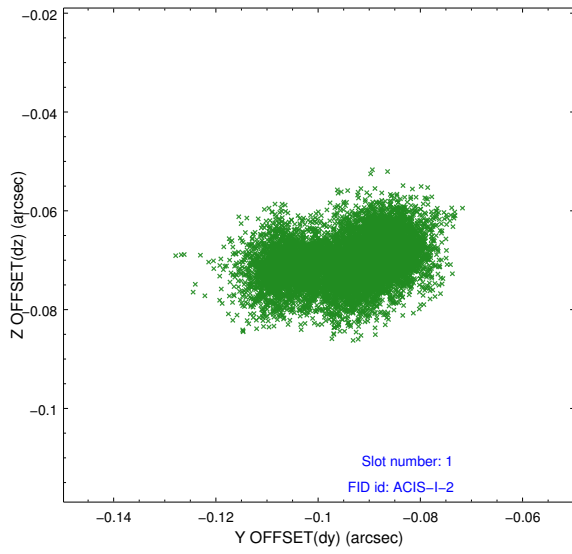


2.5 FID Slots

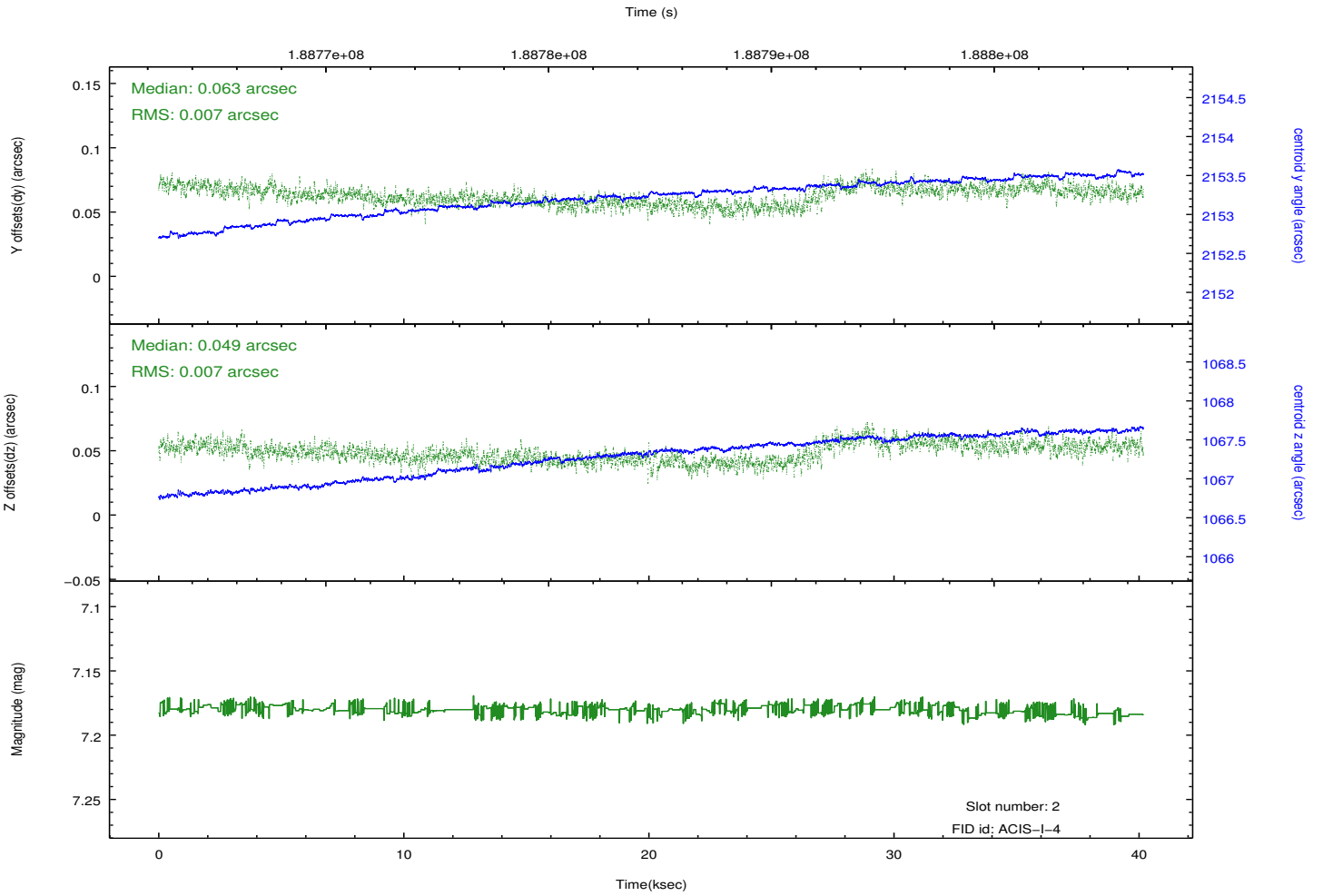
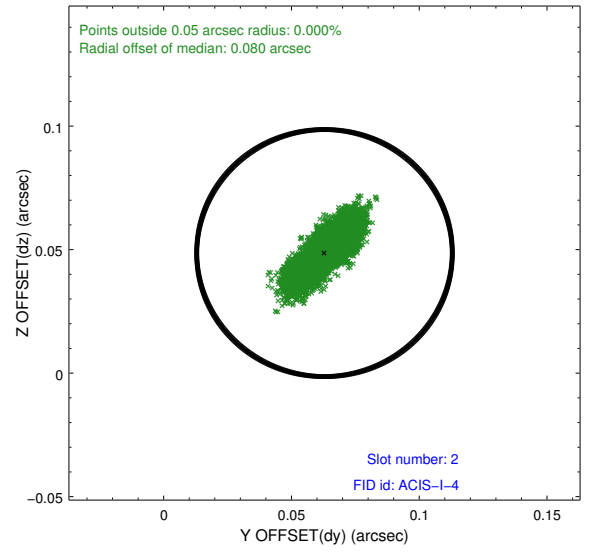
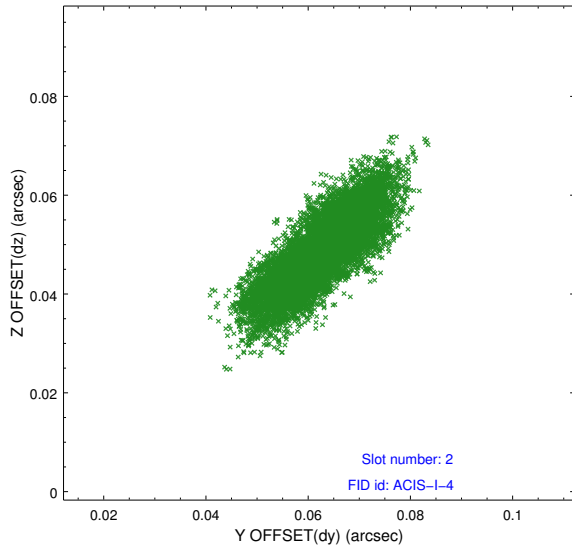
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.175

A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.