

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18662 - L2 Version 1
Chandra X-Ray Center

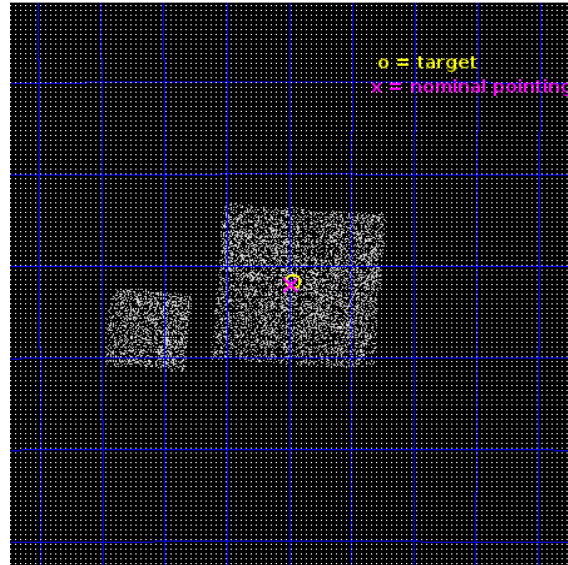
L2 Processing Date : Jul 31 2016

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1 Front

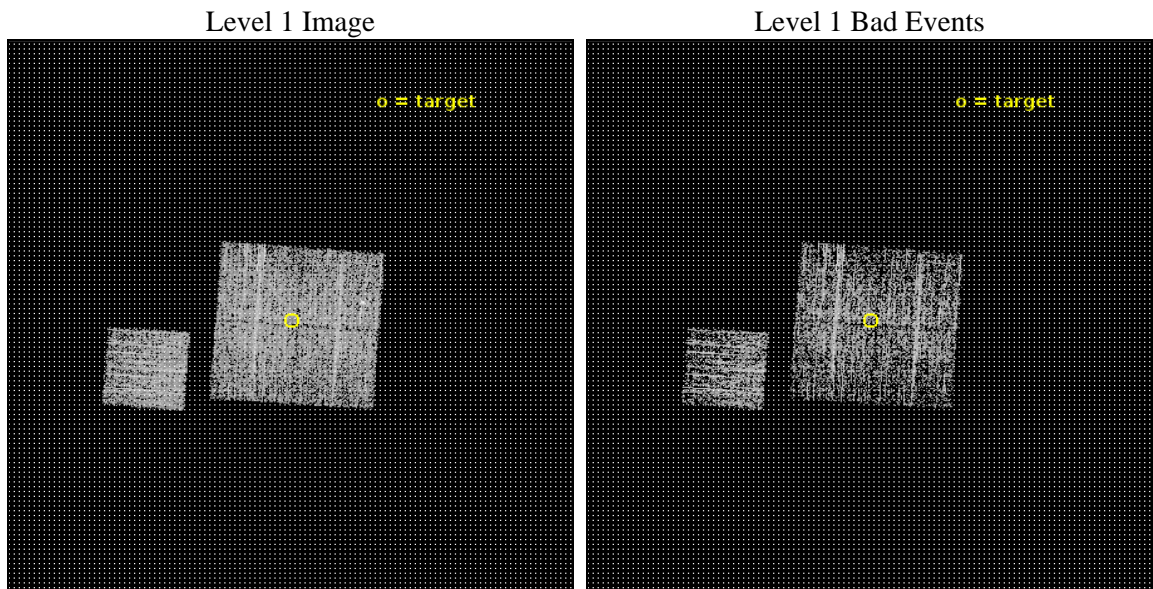
seq_num	300386	Sequence number
obs_id	18662	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.11683	Observer's specified target RA [deg]
dec_targ	-29.36211	Observer's specified target Dec [deg]
ra_nom	264.12014050025	Nominal RA [deg]
dec_nom	-29.367977059664	Nominal Dec [deg]
roll_nom	274.22740295536	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.1148626804	Sum of GTIs [s]
livetime	1929.5698476649	Livetime [s]
ontime0	1954.9917427301	Sum of GTIs [s]
ontime1	1955.0327826738	Sum of GTIs [s]
ontime2	1955.0738124847	Sum of GTIs [s]
ontime3	1955.1148626804	Sum of GTIs [s]
ontime6	1954.9507026672	Sum of GTIs [s]
l2events	6856	Number of level 2 events



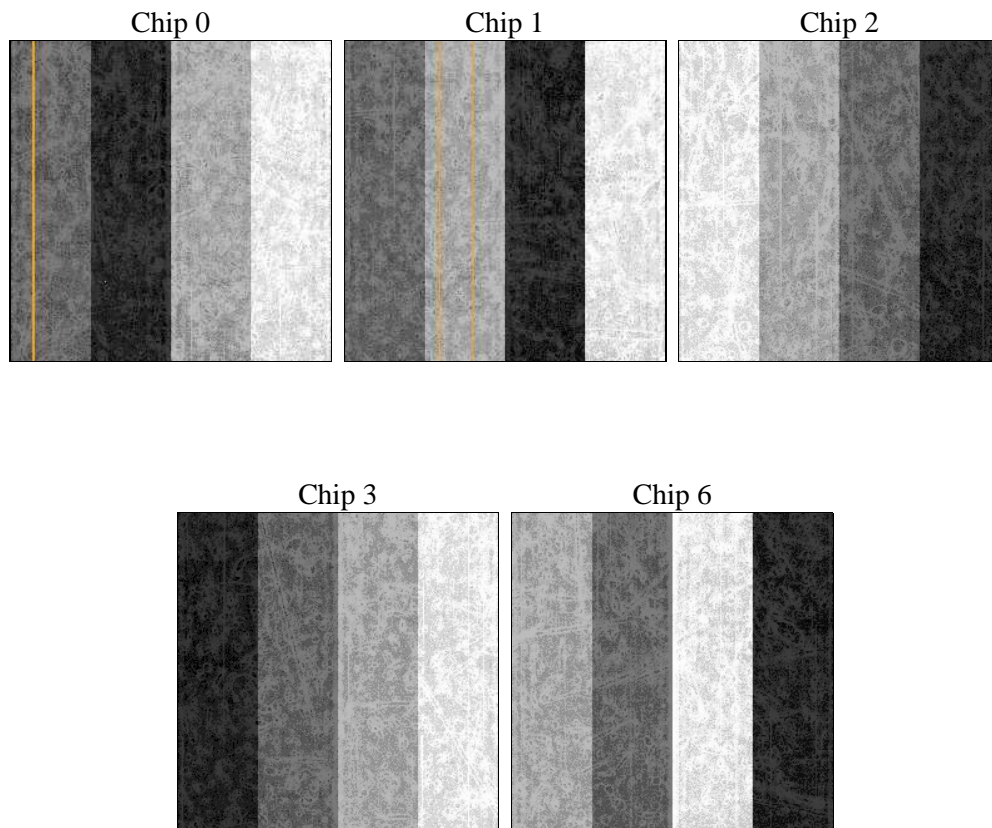
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	1955.1148626804	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1954.9917427301	Sum of GTIs [s]
date	2016-07-31T17:53:18	Date and time of file creation	ontime1	1955.0327826738	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.0738124847	Sum of GTIs [s]
			ontime3	1955.1148626804	Sum of GTIs [s]
			ontime6	1954.9507026672	Sum of GTIs [s]
			l1events	65332	Number of level 1 events

2.1.4 Events

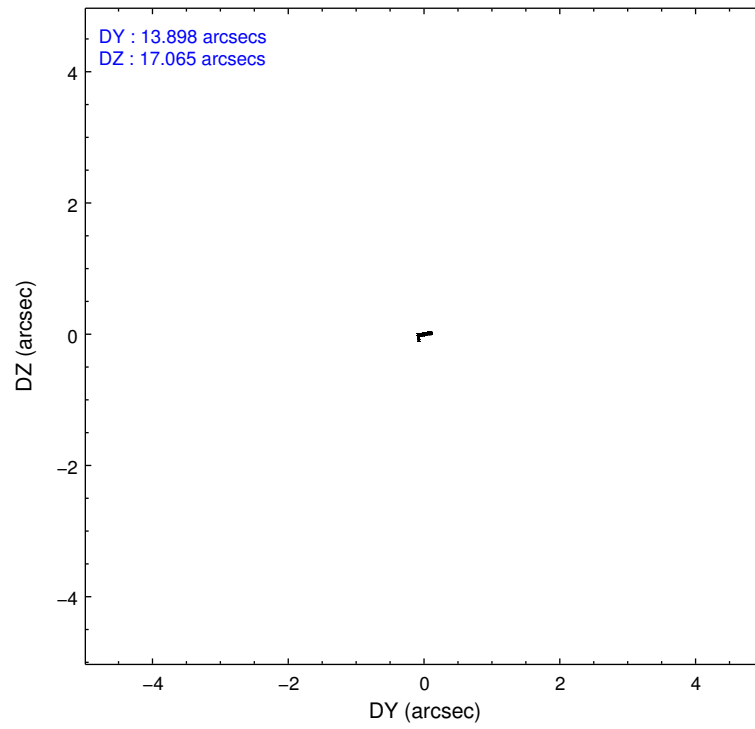
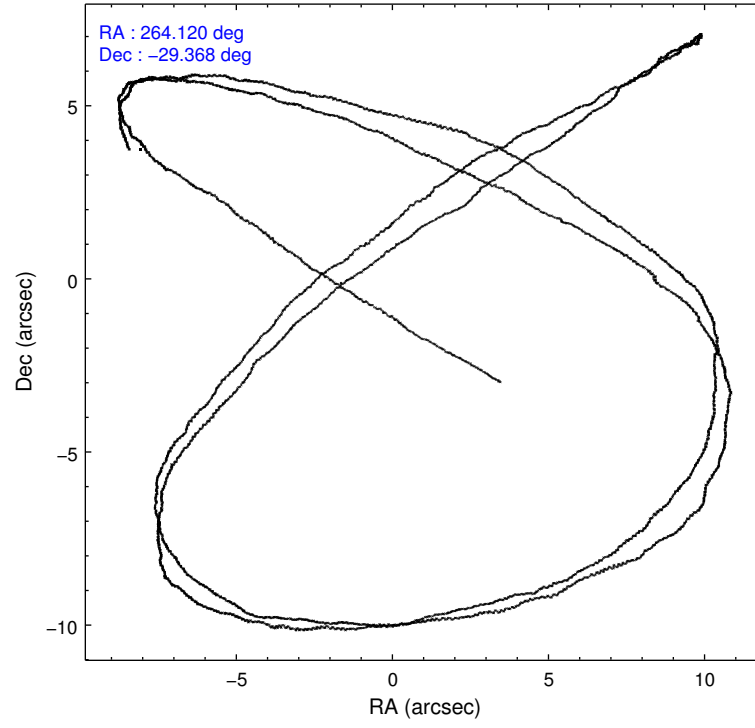
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11190	13517	12276	14129	14220
rejected events	9604	11439	10772	12530	12569
rejected %	85%	84%	87%	88%	88%

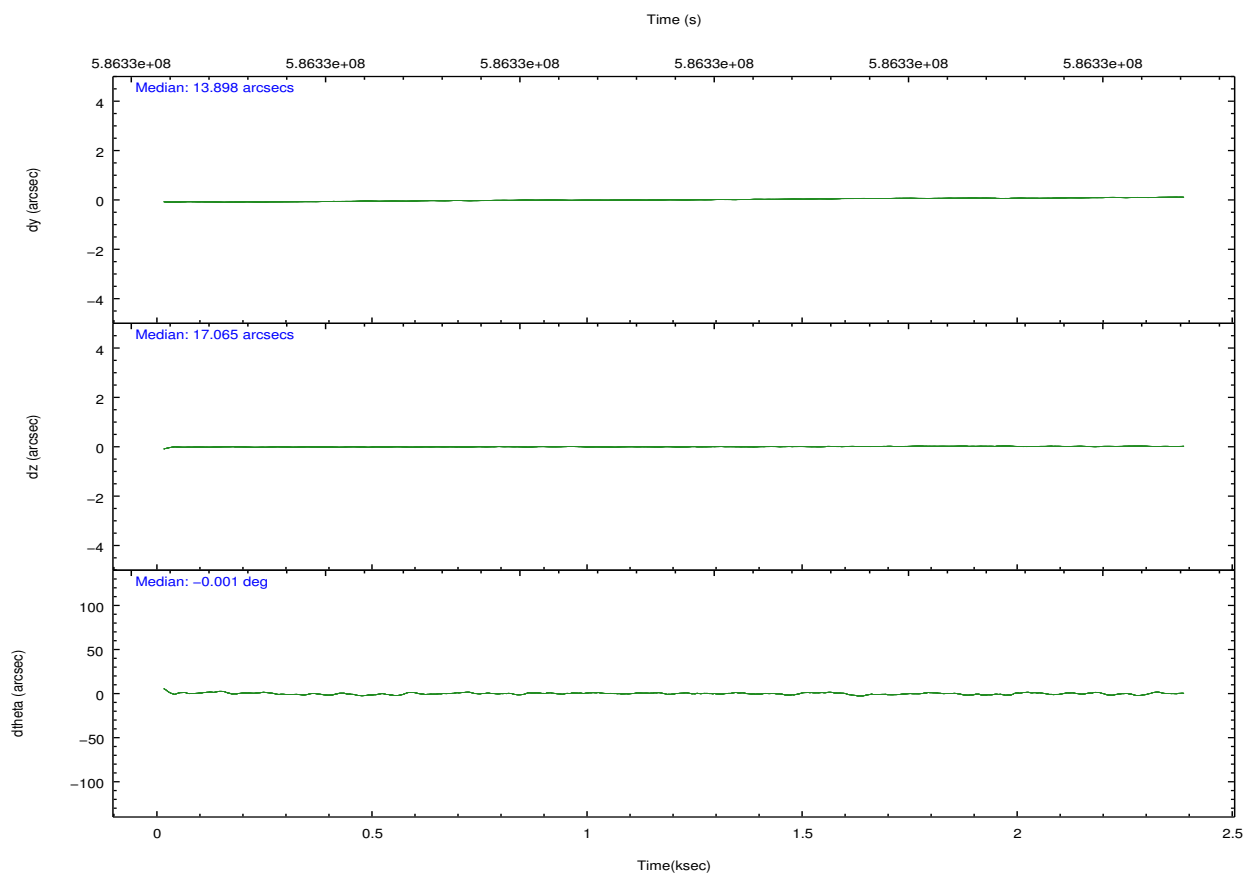
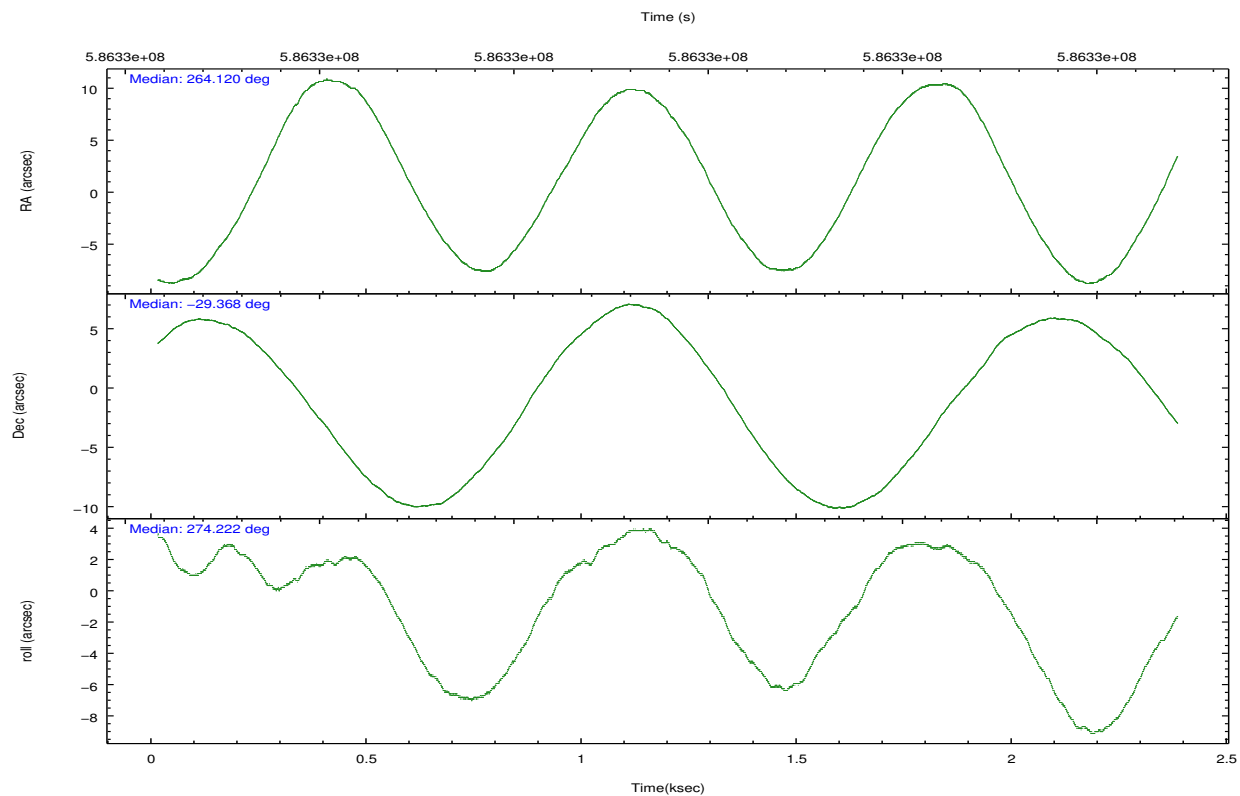
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	630	990	620	651	592
	5%	7%	5%	4%	4%
grade 1 events	8	8	13	6	8
	0%	0%	0%	0%	0%
grade 2 events	390	400	356	341	370
	3%	2%	2%	2%	2%
grade 3 events	159	157	157	156	167
	1%	1%	1%	1%	1%
grade 4 events	146	161	130	159	157
	1%	1%	1%	1%	1%
grade 5 events	550	597	488	621	599
	4%	4%	3%	4%	4%
grade 6 events	266	376	246	299	373
	2%	2%	2%	2%	2%
grade 7 events	9041	10828	10266	11896	11954
	80%	80%	83%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	264.102361	264.1201405002459	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.345432	-29.36797705966377	CCD I3 on	Y	Y
[deg] Pointing Roll	274.009971	274.2274029553649	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	586331920.184000	586331543.42268	CCD S5 on	N	N
Observation start date	2016-07-31T05:57:32	2016-07-31T05:52:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	586334100.184000	586334234.04784	On-chip summing requested	N	N
Observation end date	2016-07-31T06:33:52	2016-07-31T06:37:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



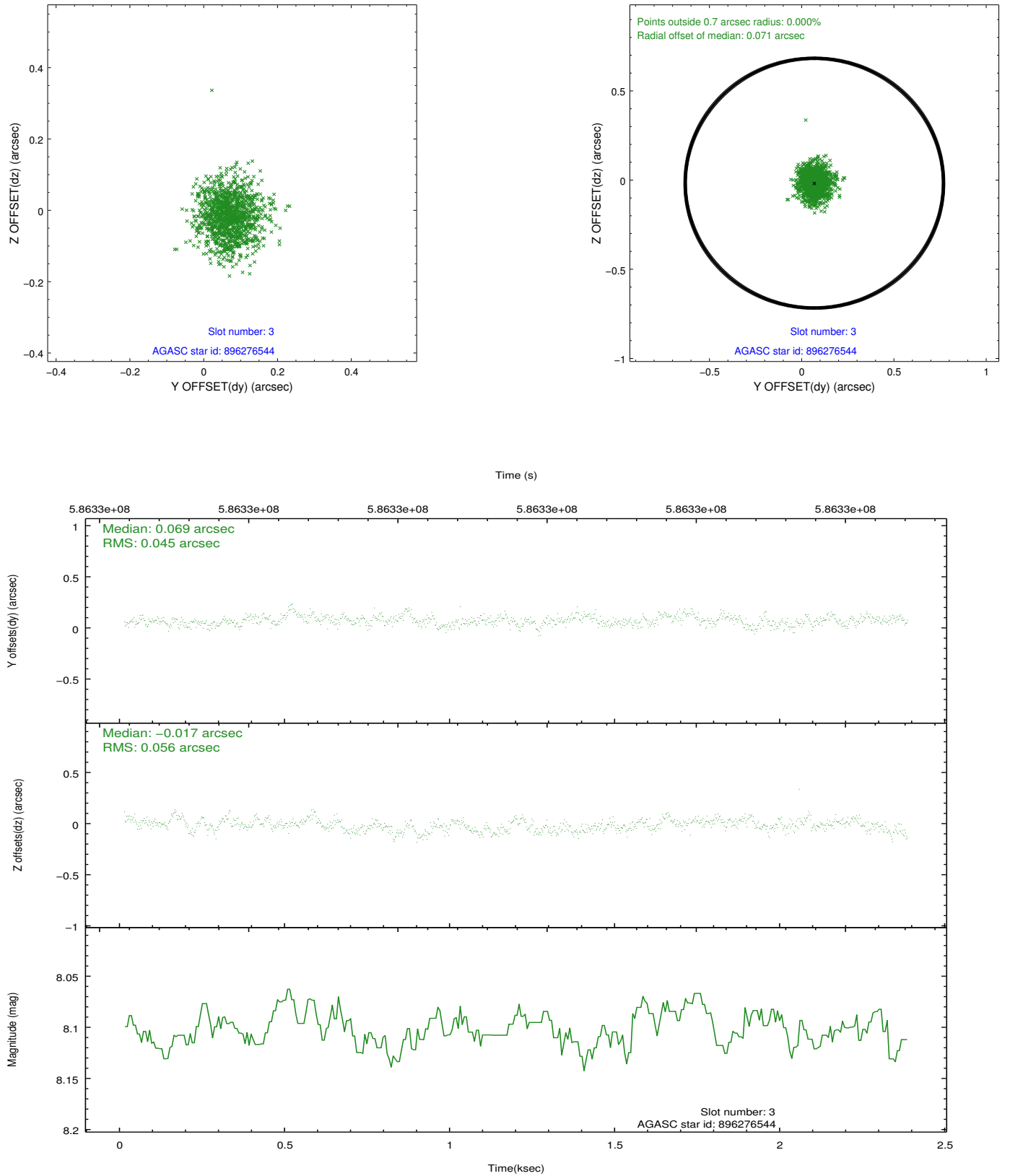


Slot Statistics

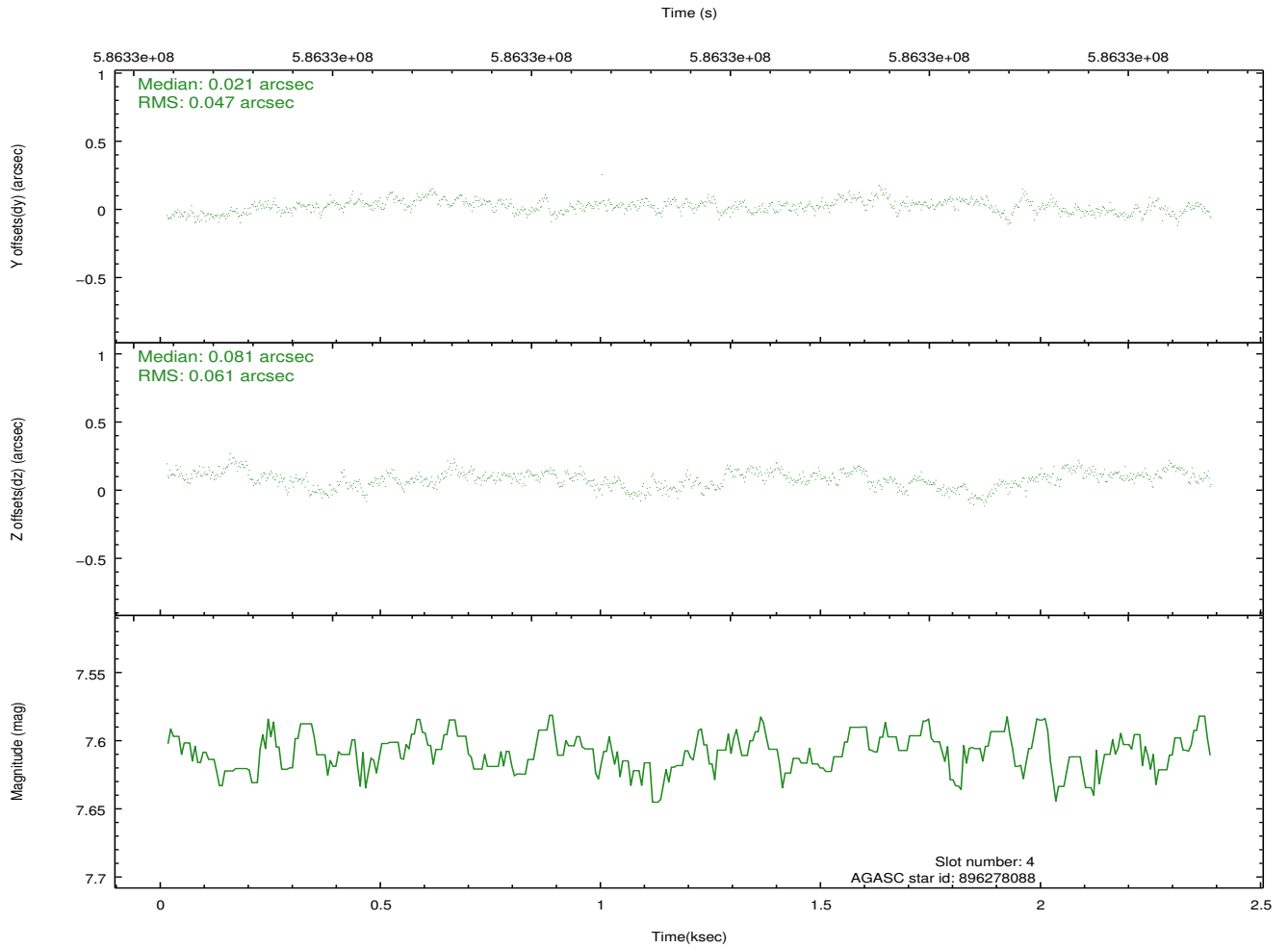
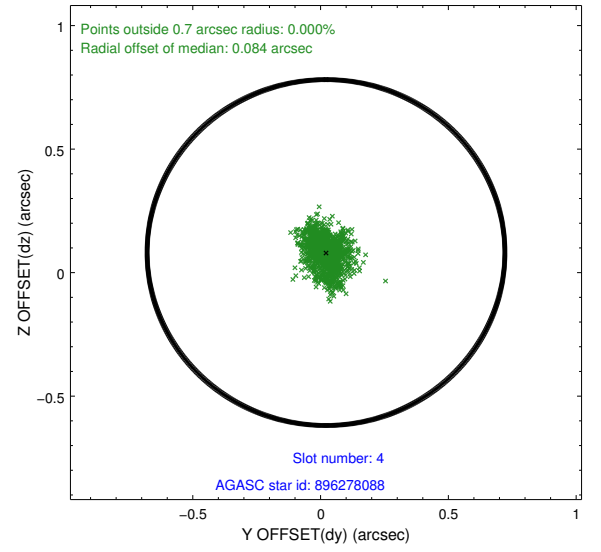
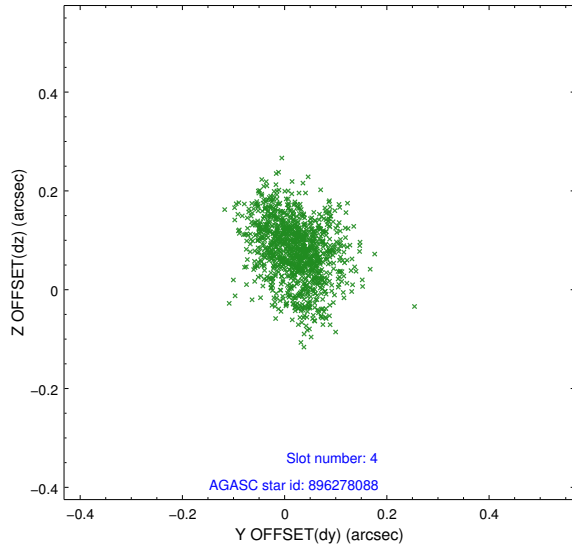
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	579	-0.013	-0.064	0.009	0.014	0.000000	0.000000	925.55	-840.80
1	FID		ACIS-I-2	7.02	579	-0.345	-0.136	0.007	0.012	0.000000	0.000000	-767.36	-848.66
2	FID		ACIS-I-4	7.02	579	0.261	0.267	0.007	0.011	0.000000	0.000000	2144.49	1057.93
3	GUIDE	used	896276544	8.10	1157	0.069	-0.017	0.077	0.124	263.666616	-29.255819	-413.53	-1342.29
4	GUIDE	used	896278088	7.61	1158	0.021	0.081	0.083	0.135	263.476198	-29.223388	-569.52	-1932.62
5	GUIDE	used	896401864	7.88	1158	-0.098	-0.067	0.119	0.183	264.861768	-29.959752	2380.03	2206.80
6	GUIDE	used	896403072	8.34	1158	-0.137	0.078	0.078	0.129	263.956439	-28.943077	-1473.59	-354.86
7	GUIDE	used	966794640	9.29	1157	0.156	-0.081	0.153	0.260	263.854004	-30.029028	2401.86	-943.91

2.4 Star Slots

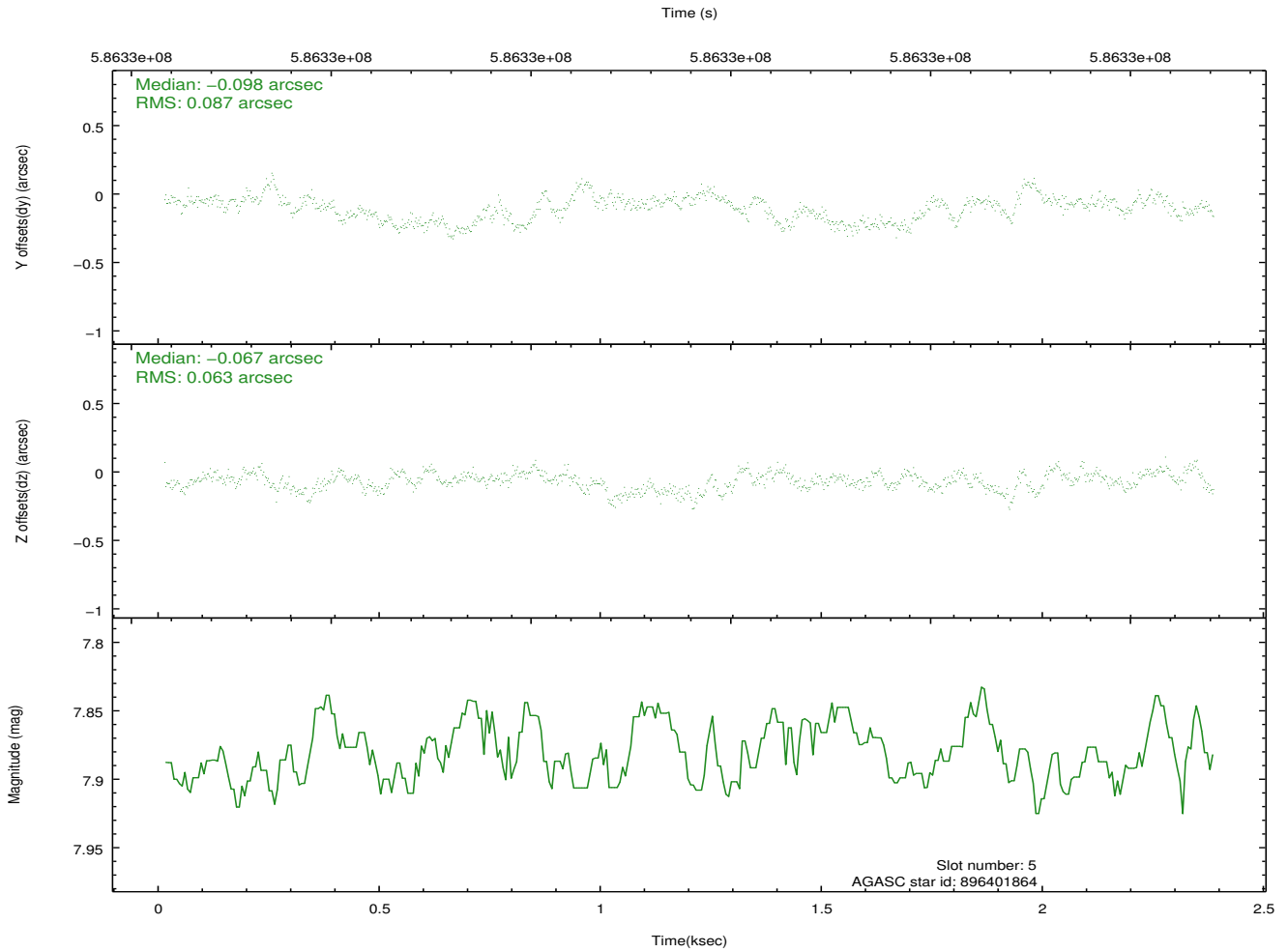
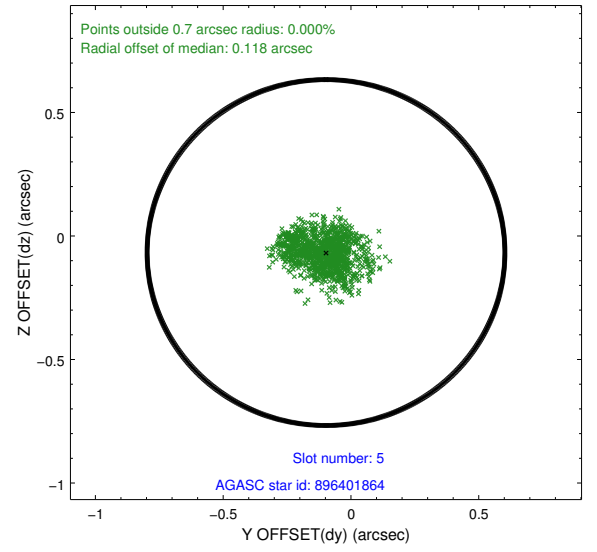
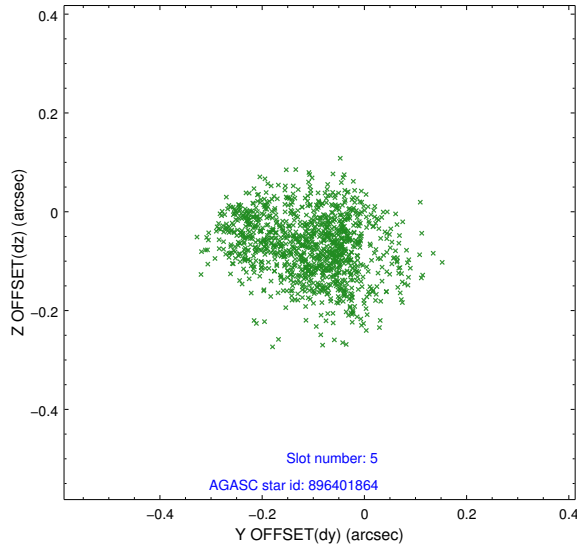
2.4.1 Slot 3



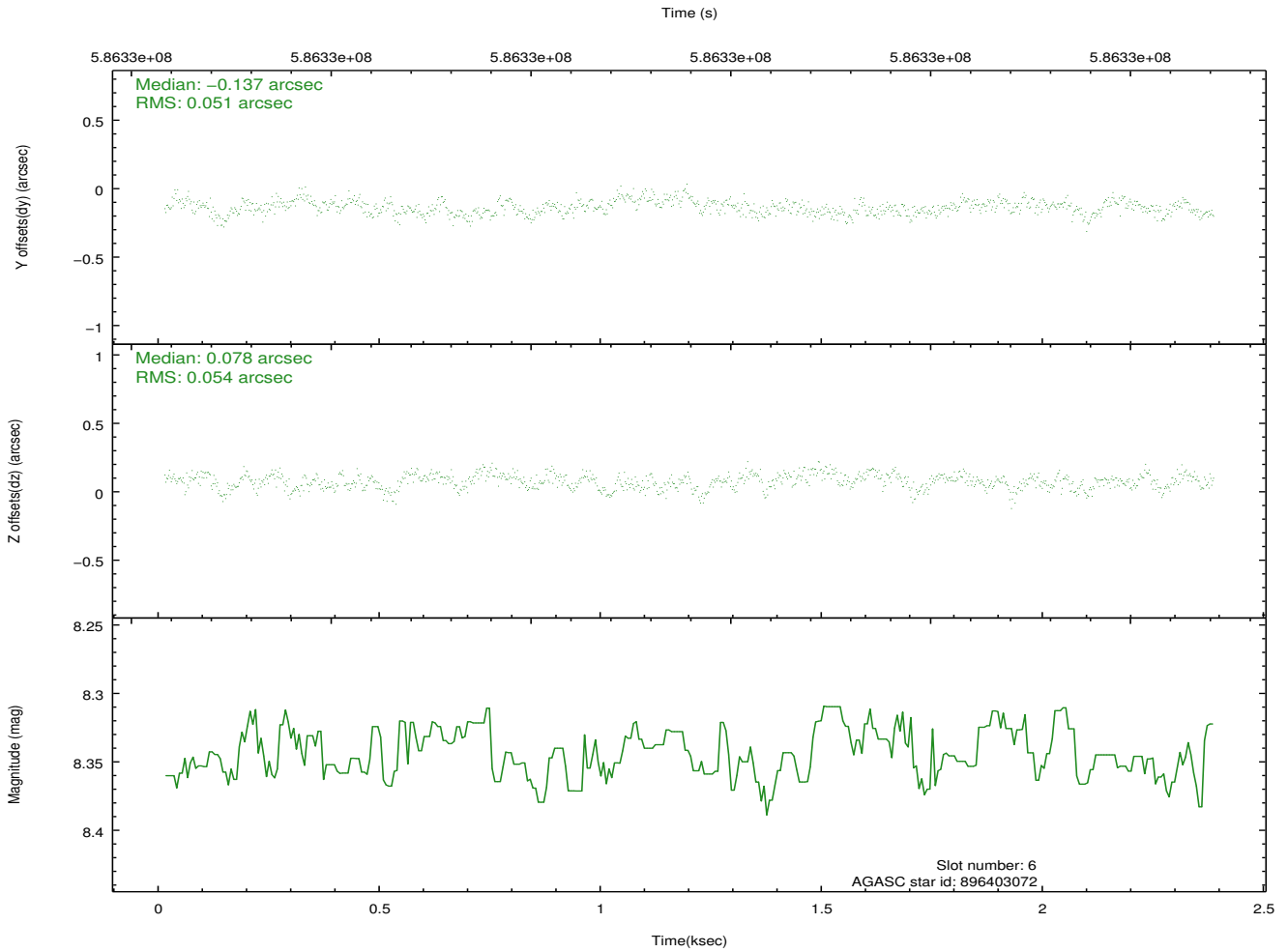
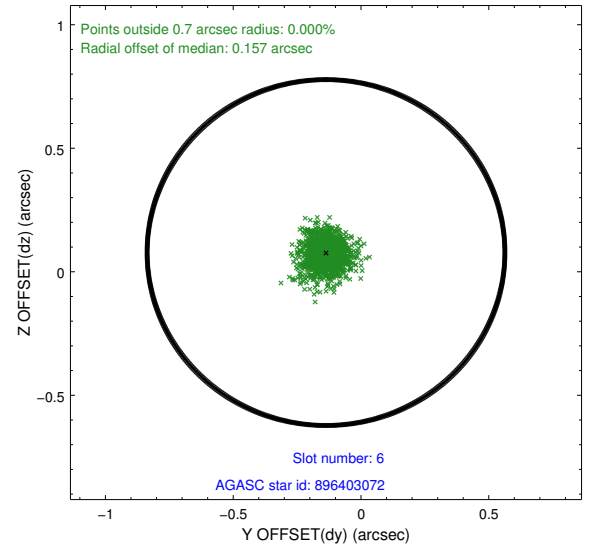
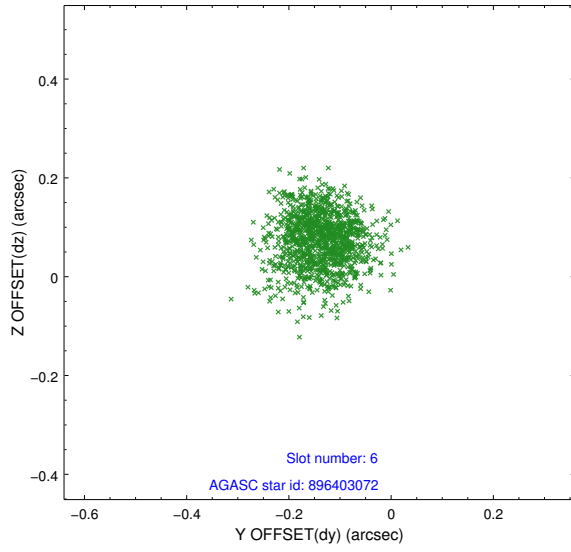
2.4.2 Slot 4



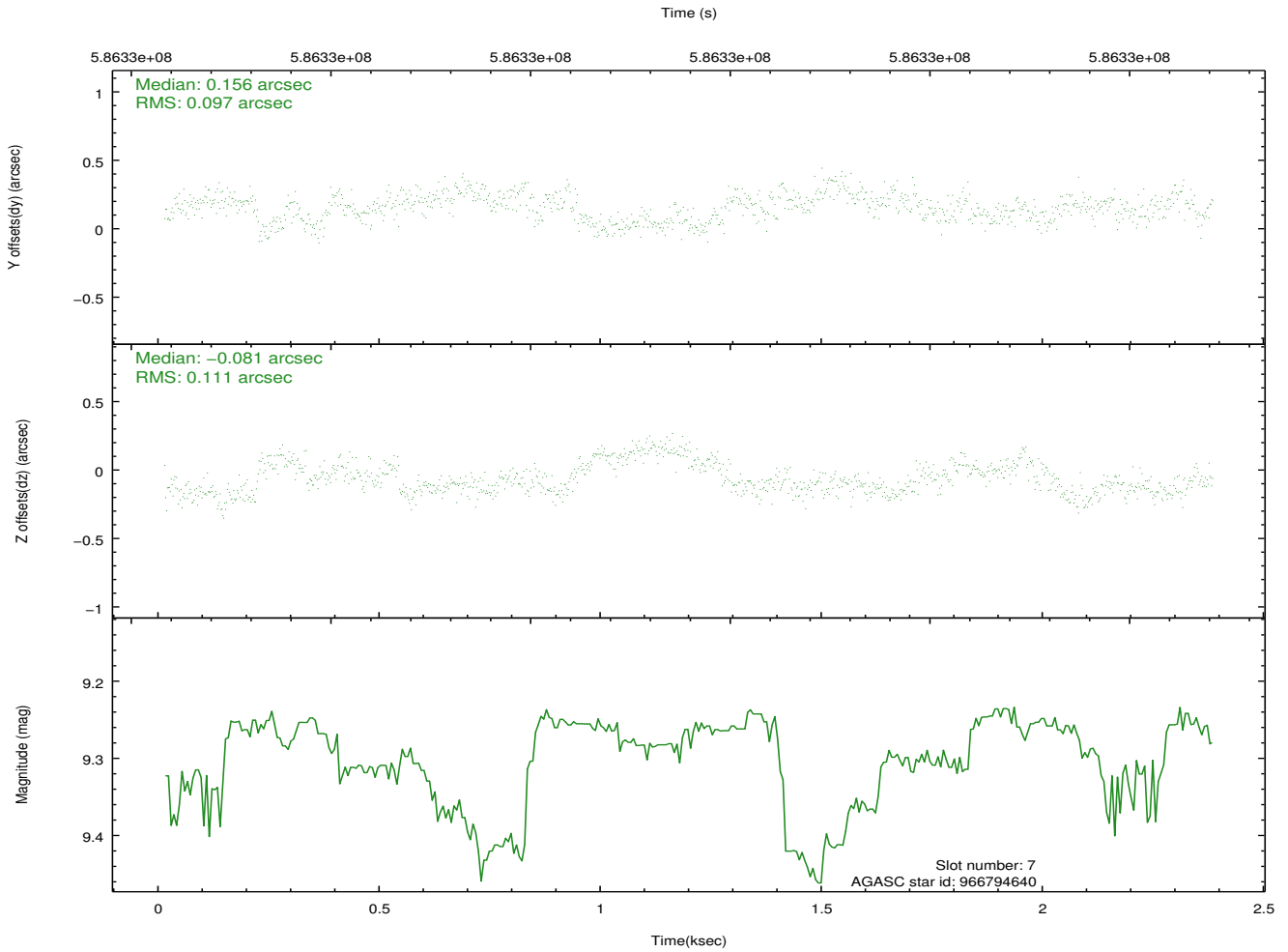
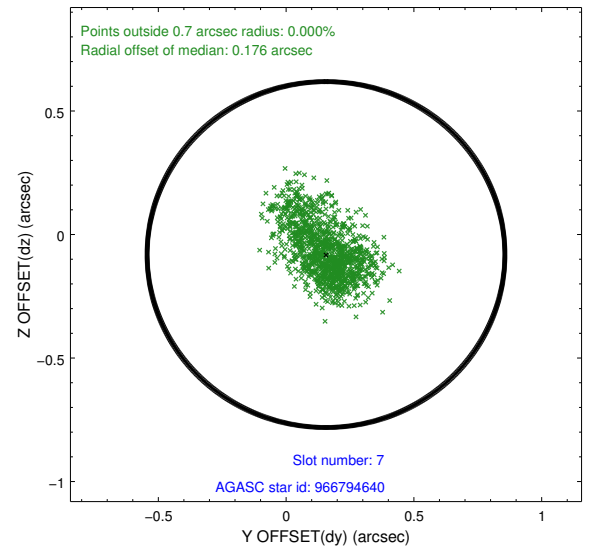
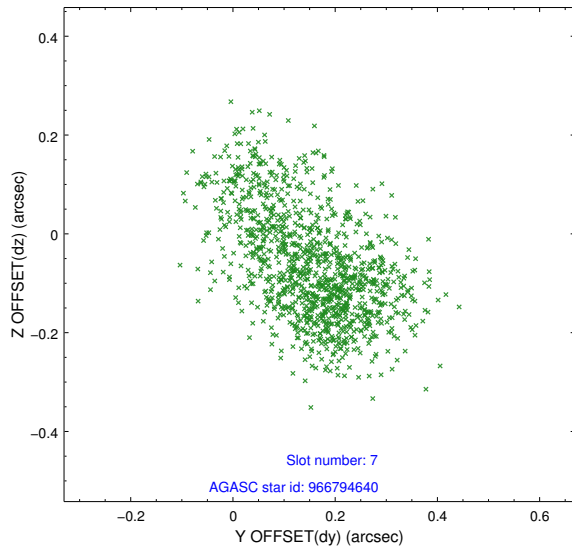
2.4.3 Slot 5



2.4.4 Slot 6

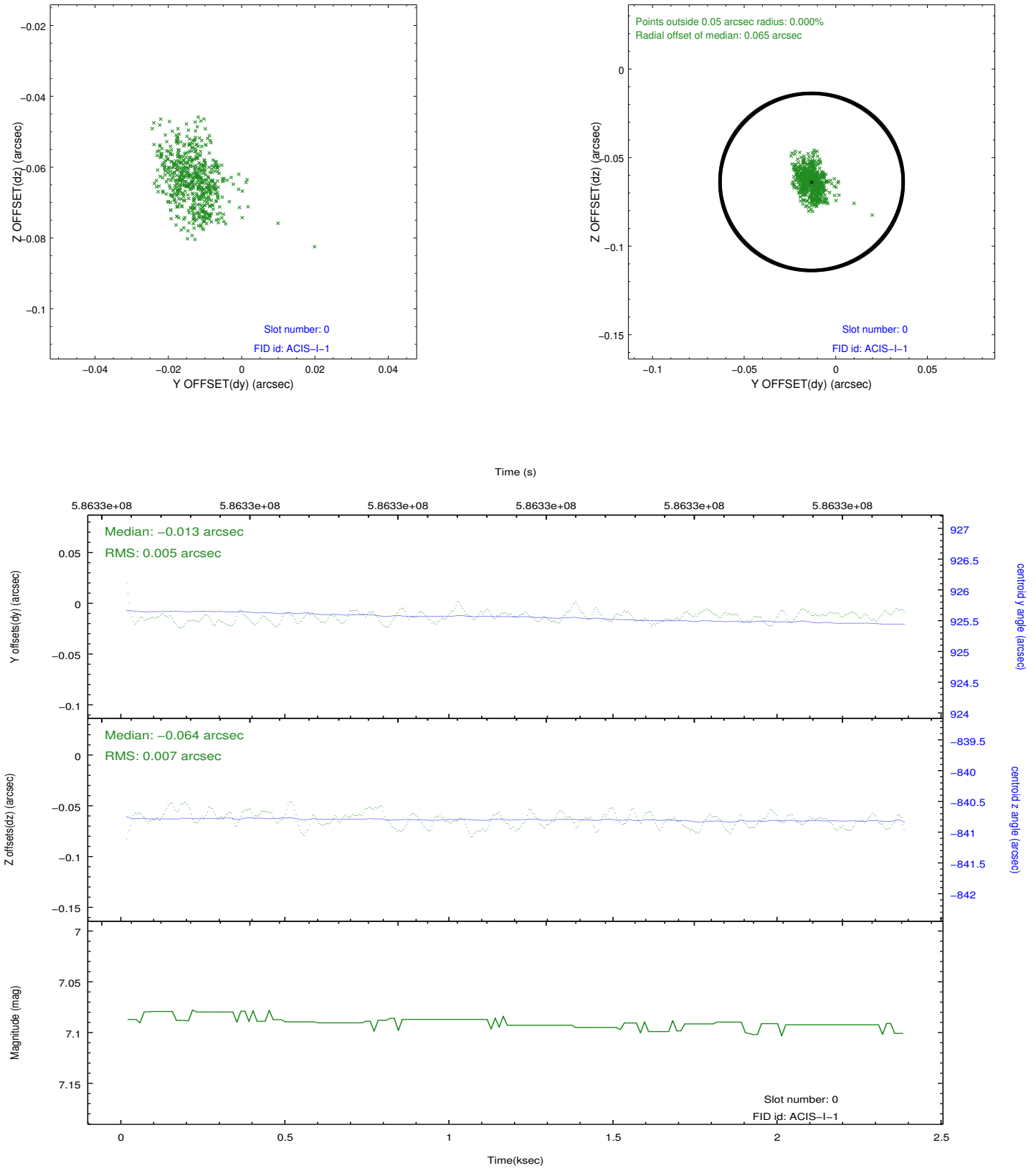


2.4.5 Slot 7

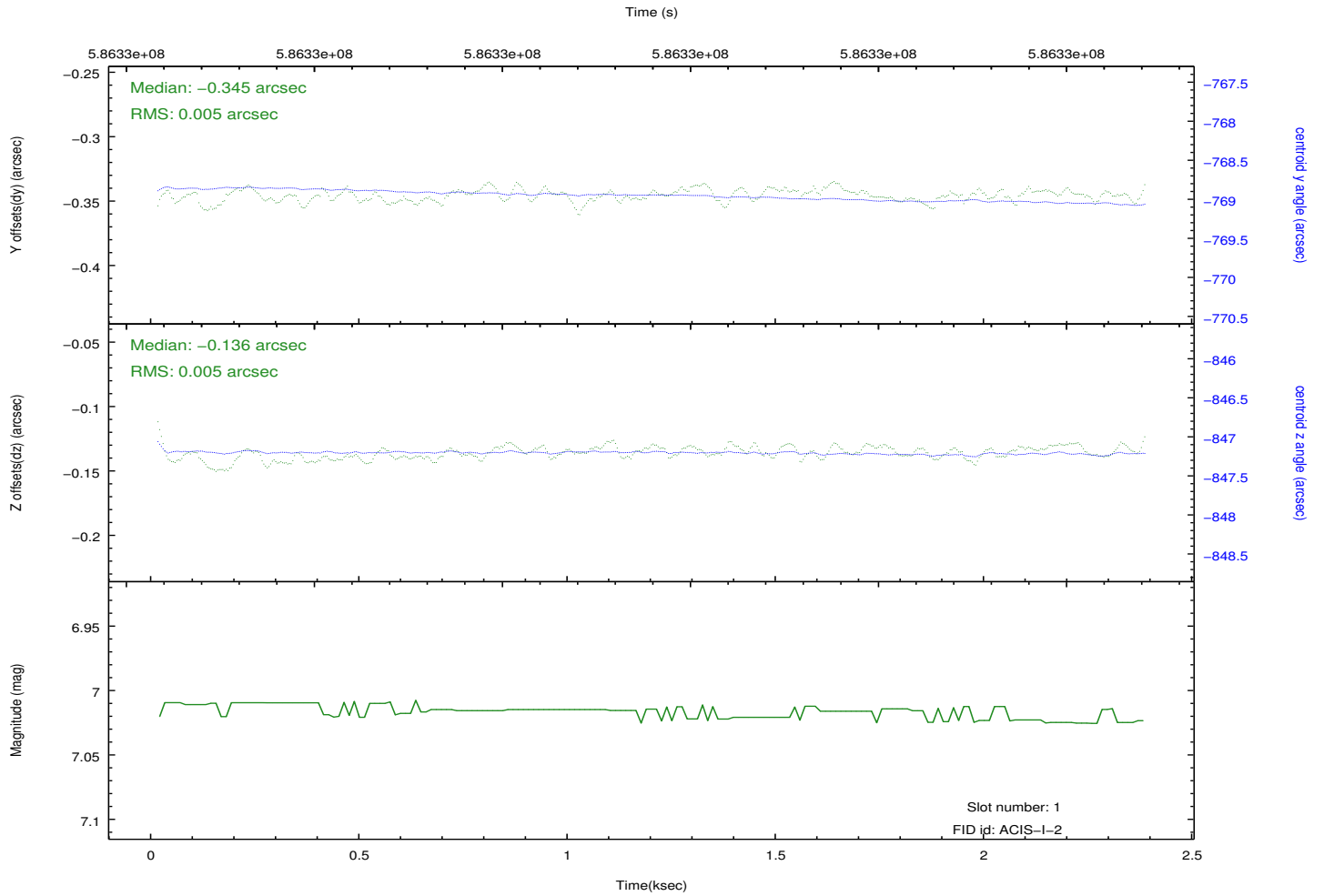
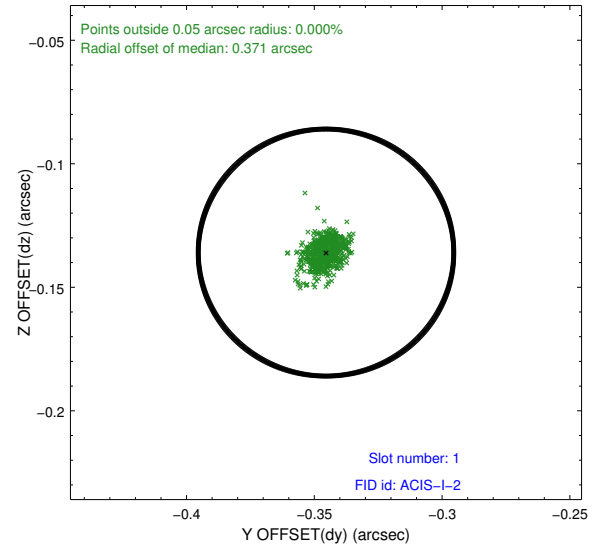
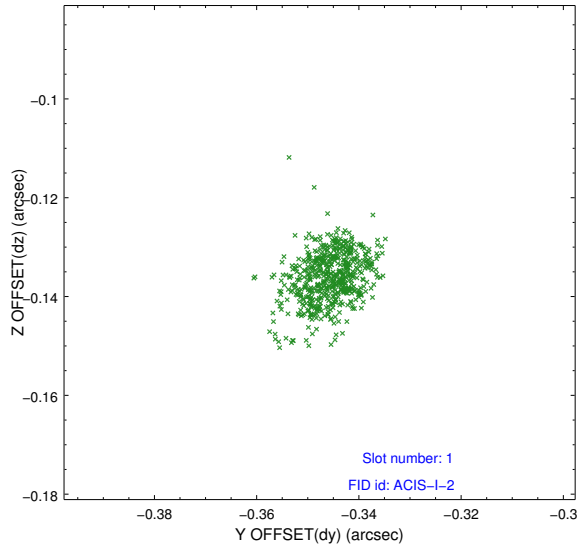


2.5 FID Slots

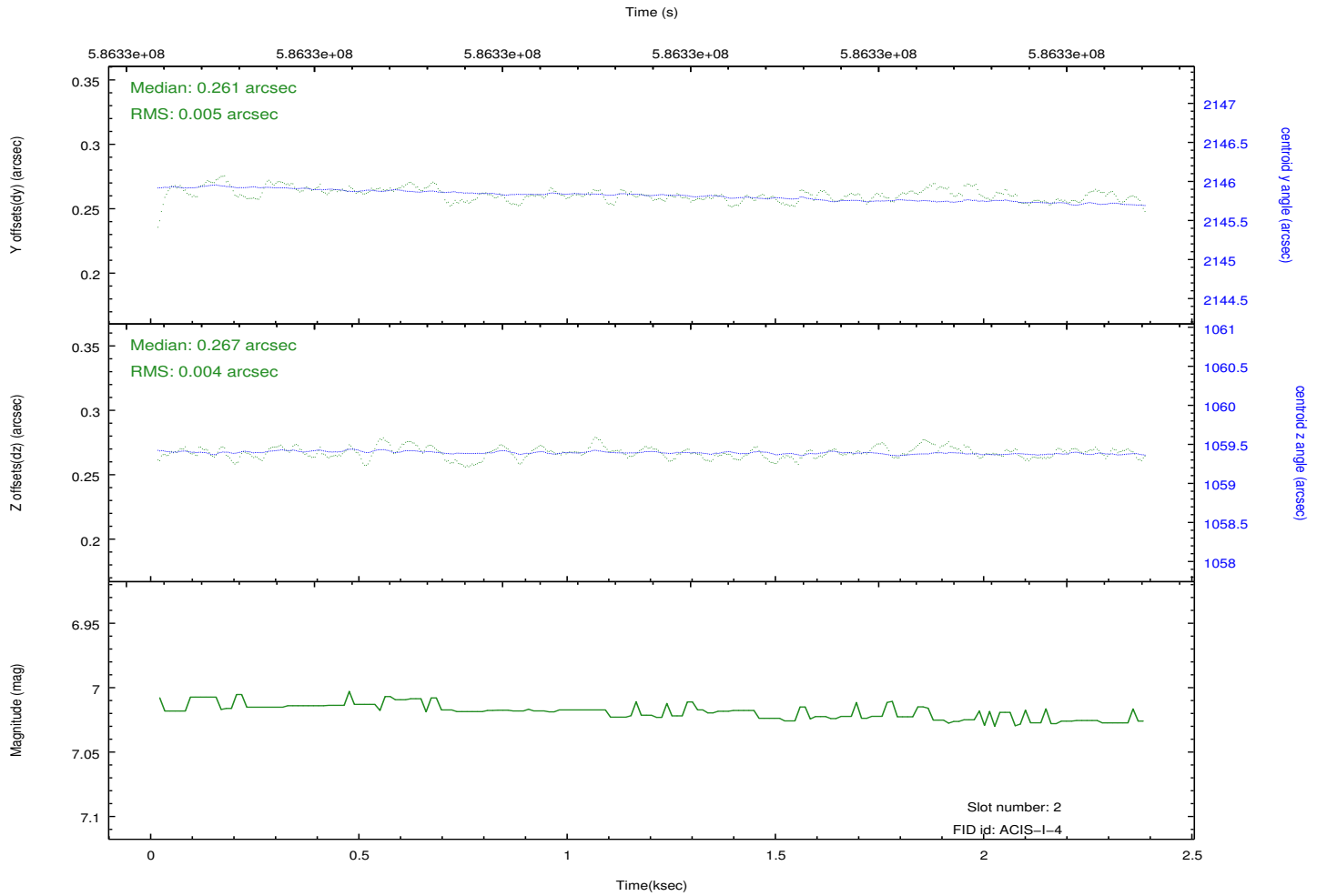
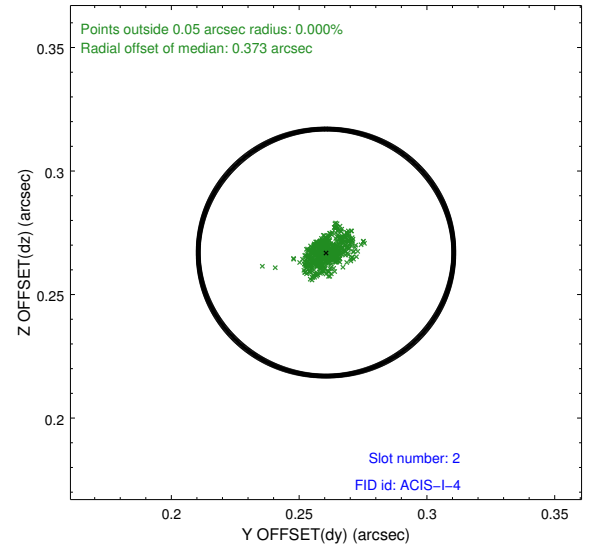
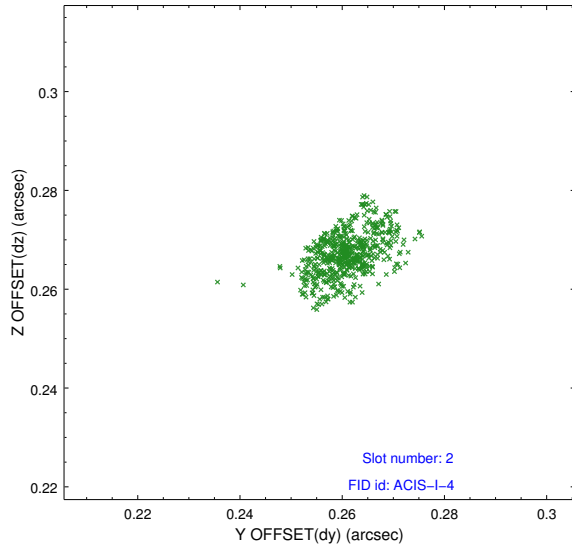
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9551148626804

A.2 Comments