

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18664 - L2 Version 1
Chandra X-Ray Center

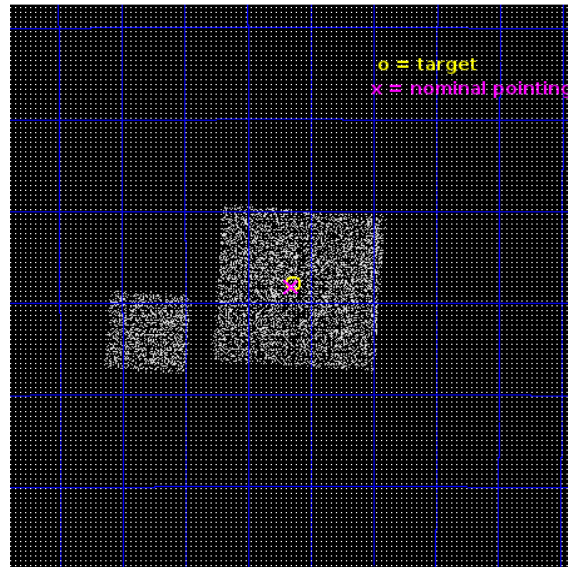
L2 Processing Date : Jul 31 2016

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1 Front

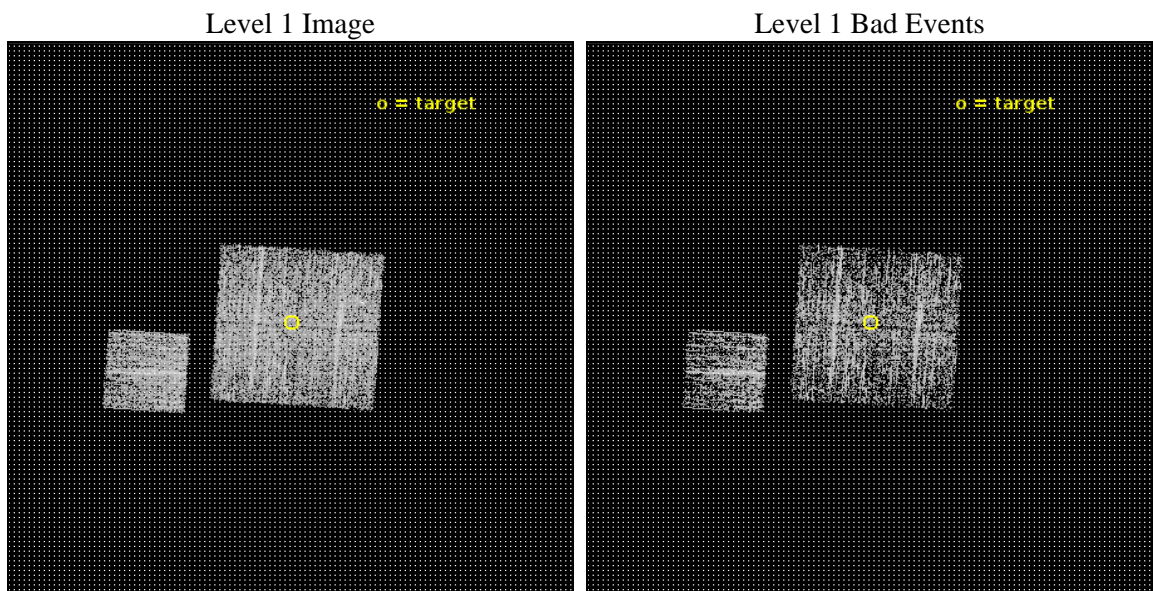
seq_num	300388	Sequence number
obs_id	18664	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.53463	Observer's specified target RA [deg]
dec_targ	-28.79764	Observer's specified target Dec [deg]
ra_nom	264.53805250978	Nominal RA [deg]
dec_nom	-28.804005179953	Nominal Dec [deg]
roll_nom	273.85500313424	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1953.0000151396	Sum of GTIs [s]
livetime	1927.4826321641	Livetime [s]
ontime0	1953.0000151396	Sum of GTIs [s]
ontime1	1953.0000151396	Sum of GTIs [s]
ontime2	1953.0000151396	Sum of GTIs [s]
ontime3	1953.0000151396	Sum of GTIs [s]
ontime6	1953.0000151396	Sum of GTIs [s]
l2events	7099	Number of level 2 events



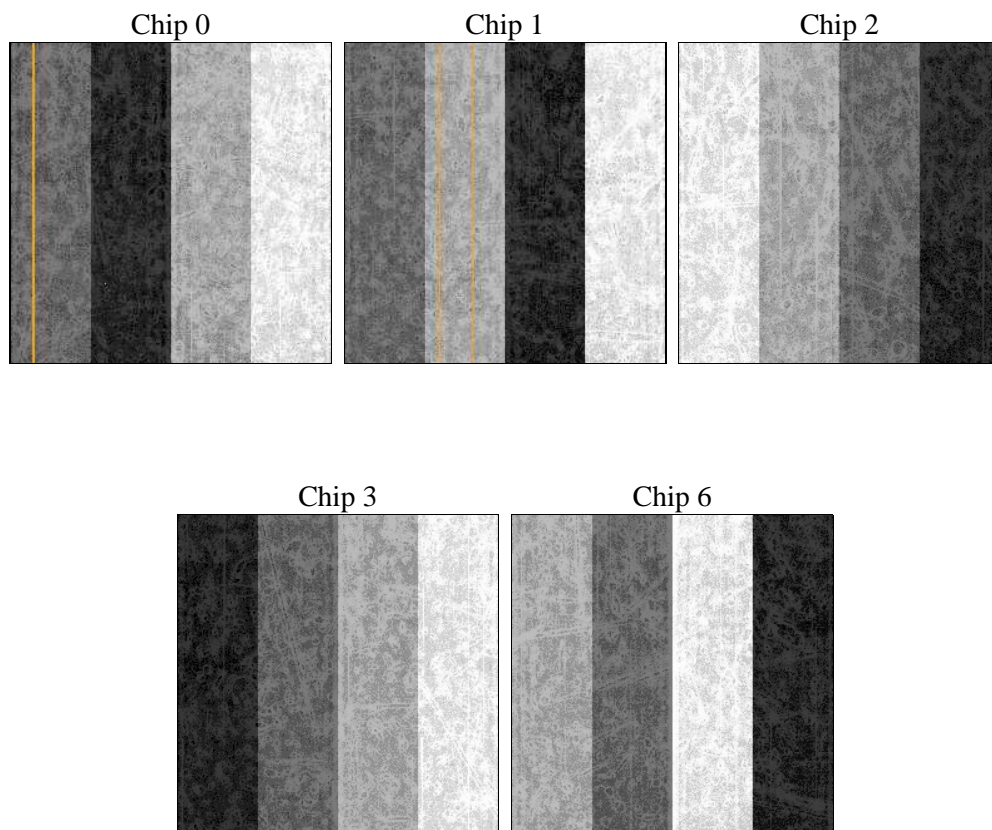
2 OBI

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	1953.0000151396	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1953.0000151396	Sum of GTIs [s]
date	2016-07-31T17:56:15	Date and time of file creation	ontime1	1953.0000151396	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1953.0000151396	Sum of GTIs [s]
			ontime3	1953.0000151396	Sum of GTIs [s]
			ontime6	1953.0000151396	Sum of GTIs [s]
			l1events	64533	Number of level 1 events

2.1.4 Events

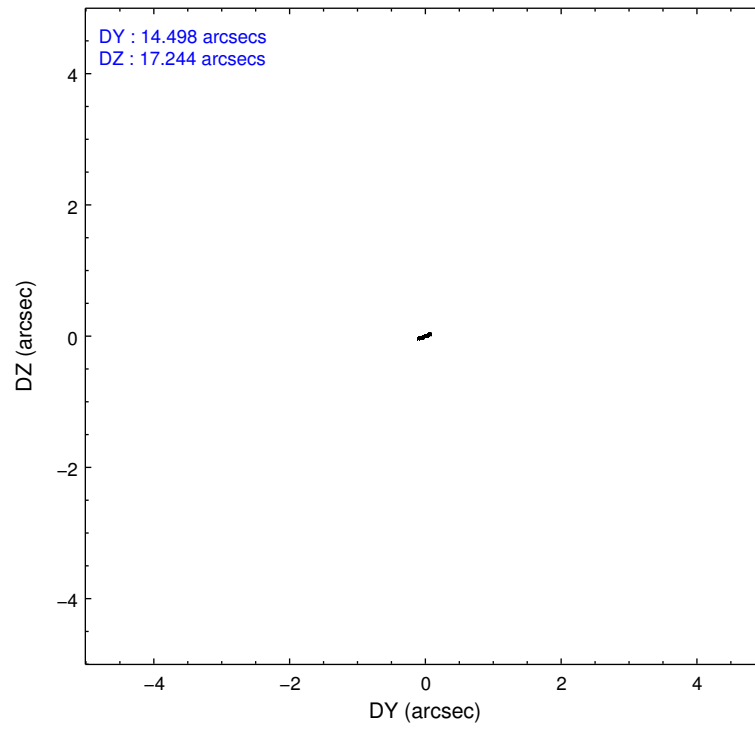
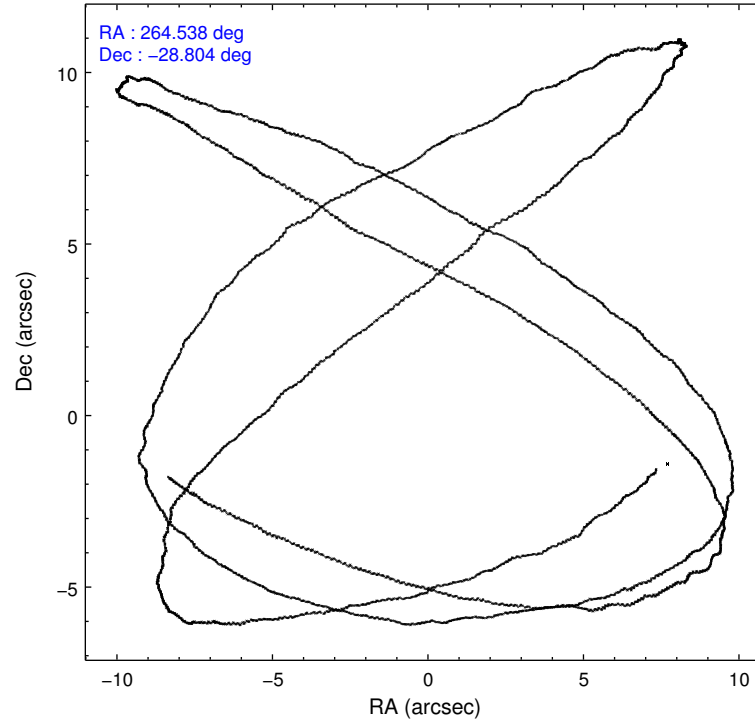
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11794	12795	13455	12930	13559
rejected events	10117	10865	11838	11321	11954
rejected %	85%	84%	87%	87%	88%

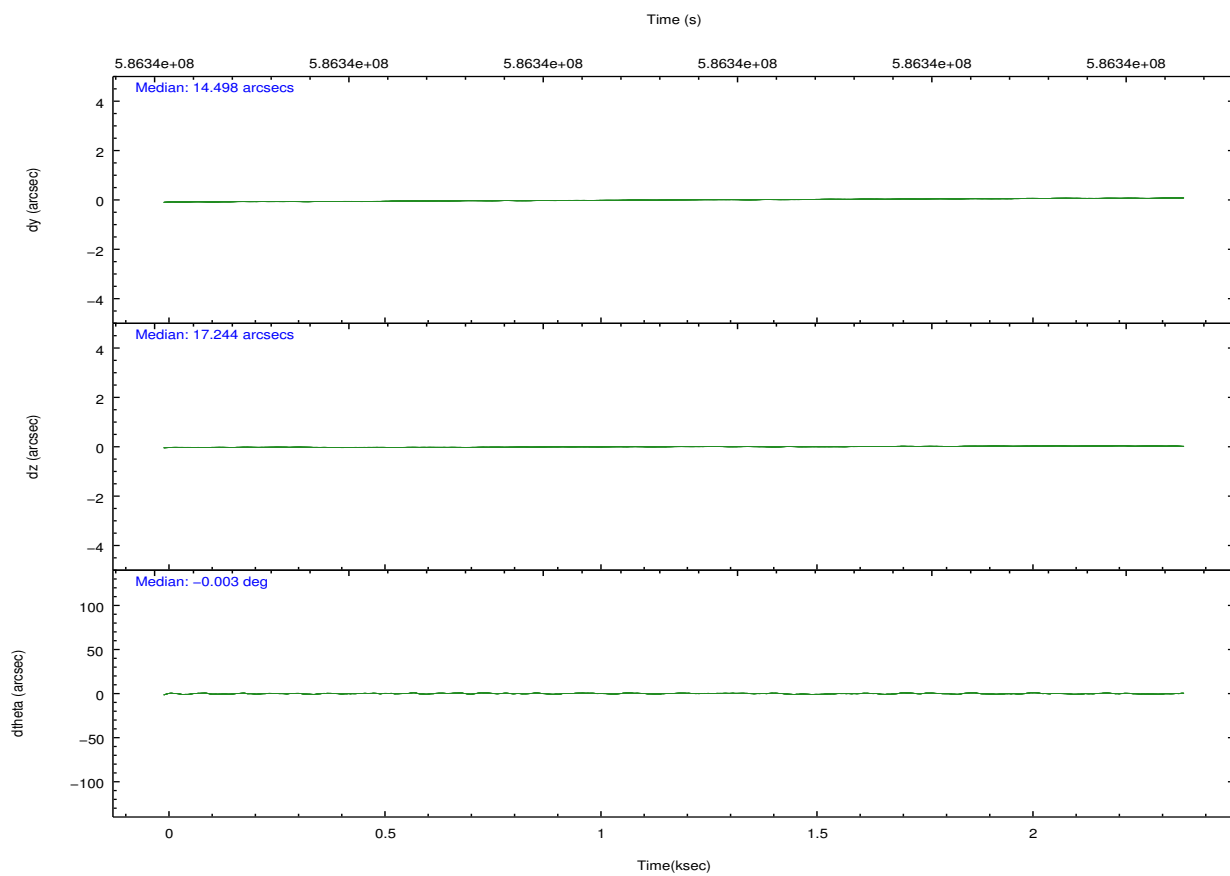
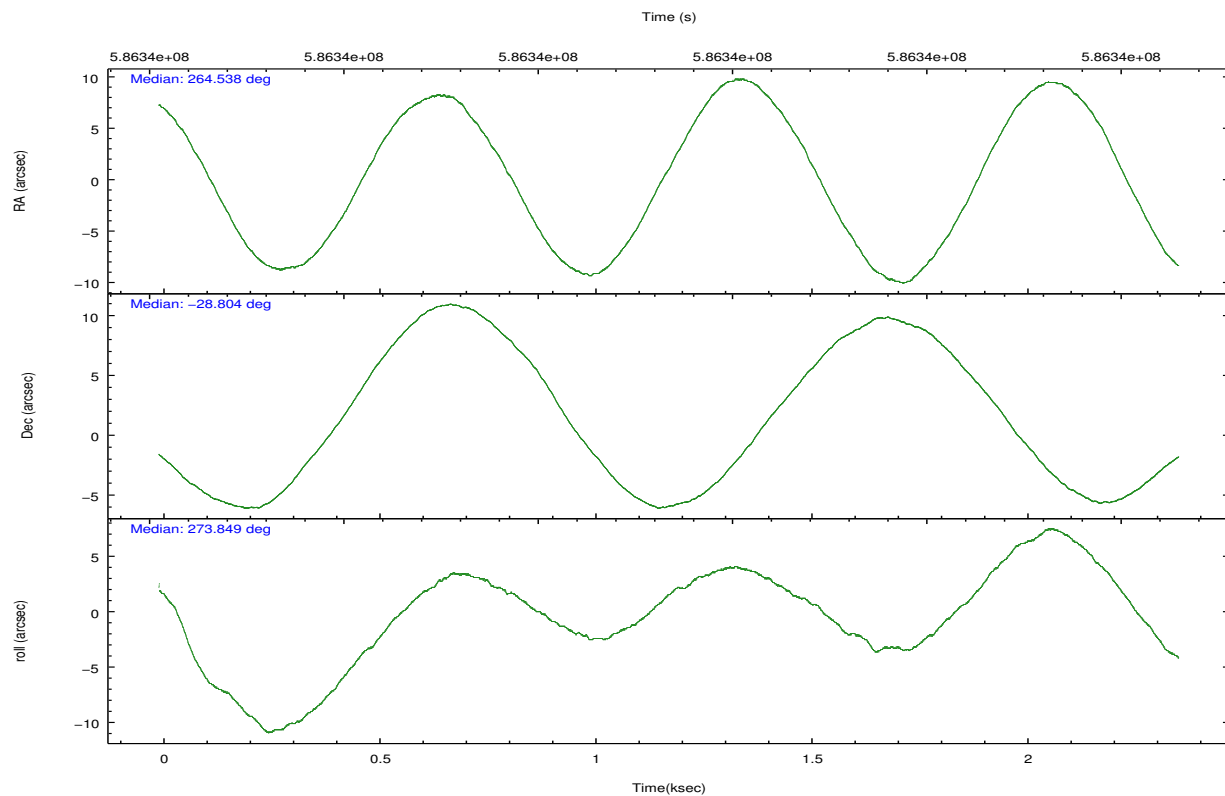
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	674	897	666	657	619
	5%	7%	4%	5%	4%
grade 1 events	5	9	8	6	3
	0%	0%	0%	0%	0%
grade 2 events	392	353	362	353	348
	3%	2%	2%	2%	2%
grade 3 events	167	170	158	144	145
	1%	1%	1%	1%	1%
grade 4 events	146	149	172	144	158
	1%	1%	1%	1%	1%
grade 5 events	537	591	530	601	602
	4%	4%	3%	4%	4%
grade 6 events	306	371	269	319	343
	2%	2%	1%	2%	2%
grade 7 events	9567	10255	11290	10706	11341
	81%	80%	83%	82%	83%

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	264.520366	264.5380525097839	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.780886	-28.80400517995342	CCD I3 on	Y	Y
[deg] Pointing Roll	273.637774	273.8550031342374	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)	586337321.184000	586336934.41049	CCD S5 on	N	N
Observation start date	2016-07-31T07:27:33	2016-07-31T07:22:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	586339501.184000	586339695.24815	On-chip summing requested	N	N
Observation end date	2016-07-31T08:03:53	2016-07-31T08:08:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



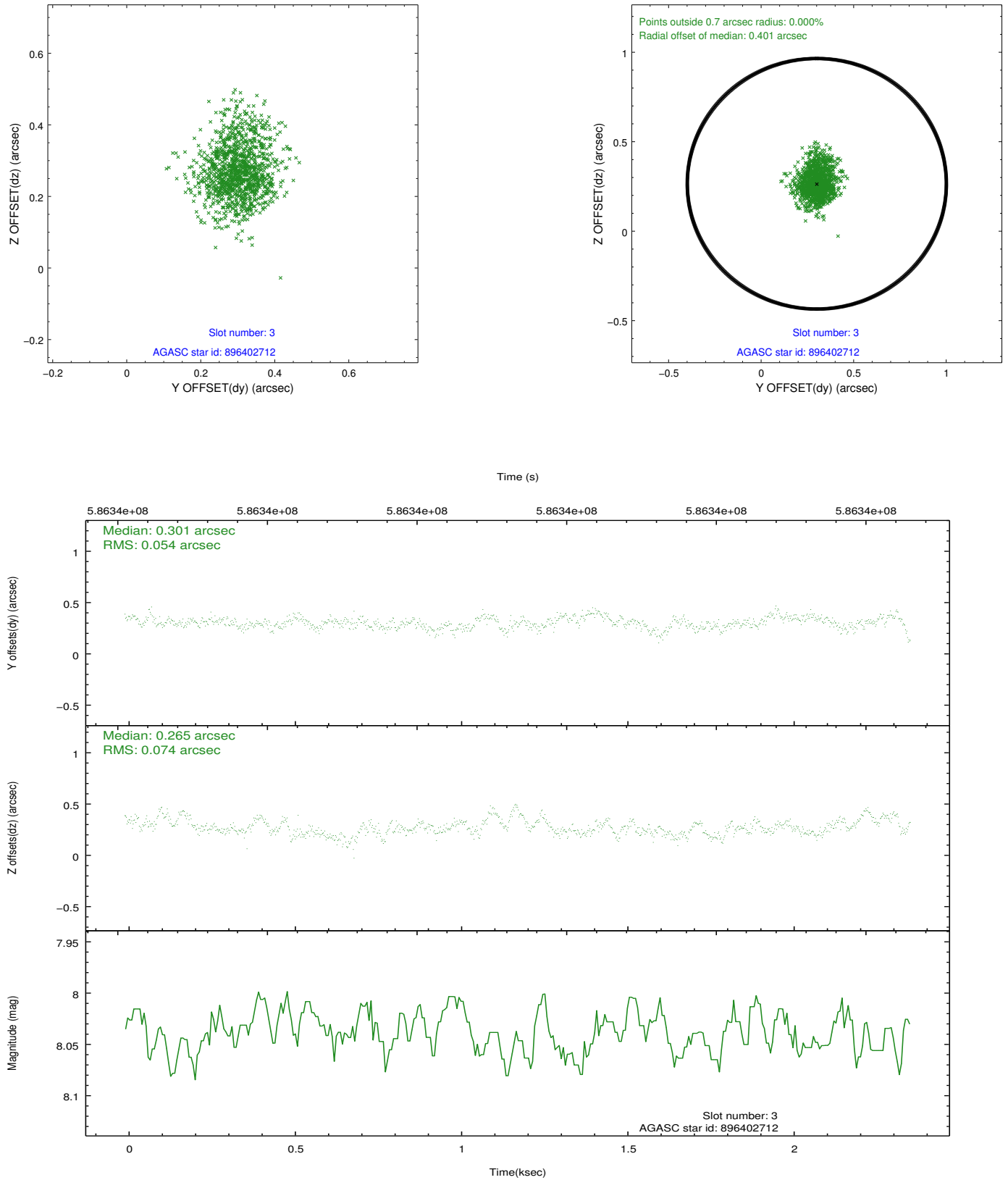


Slot Statistics

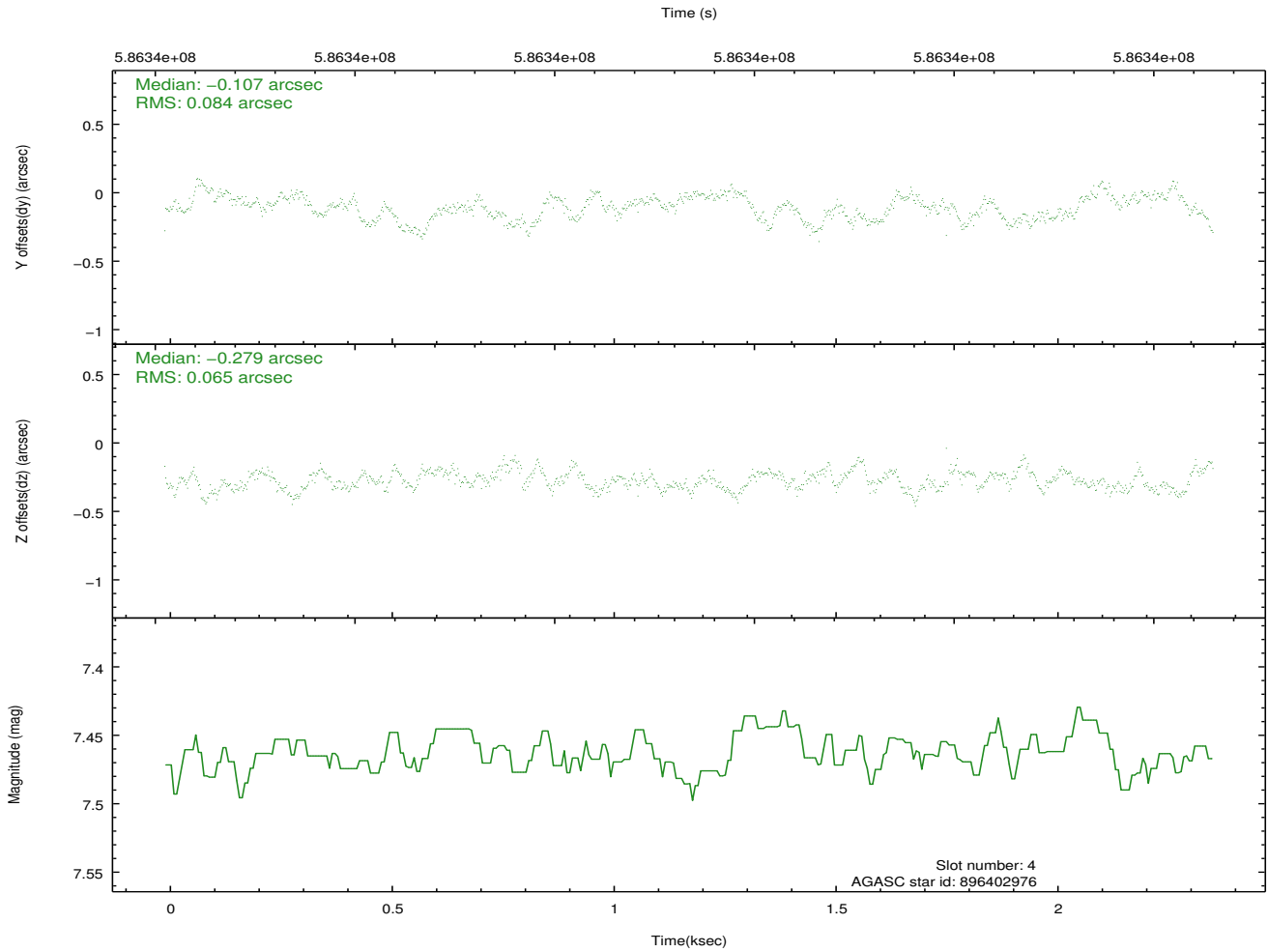
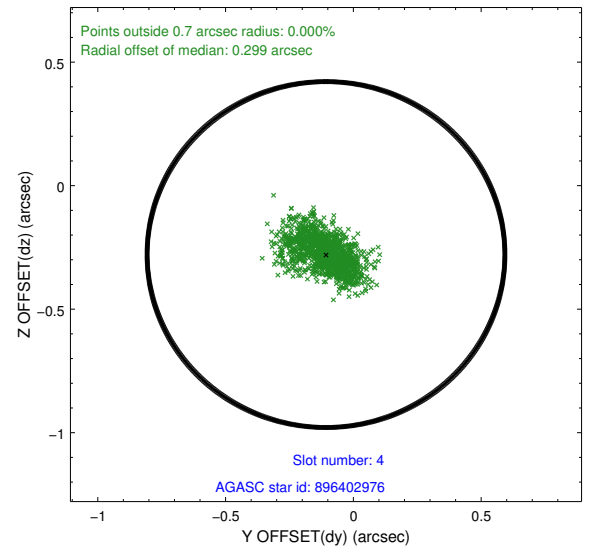
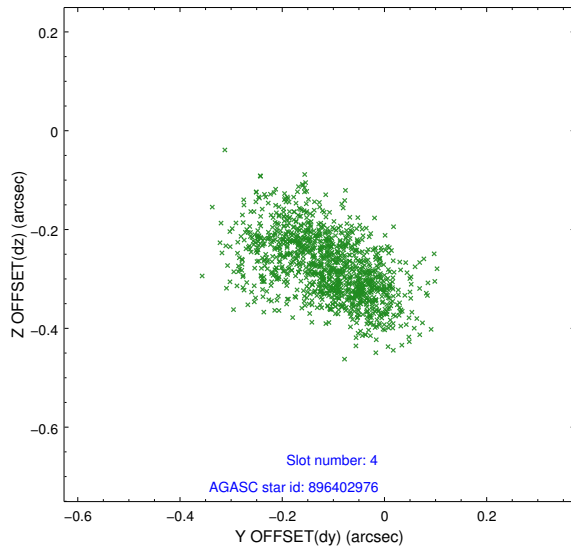
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	576	0.072	-0.044	0.006	0.011	0.000000	0.000000	925.07	-840.93
1	FID		ACIS-I-5	7.12	576	-0.320	0.042	0.006	0.009	0.000000	0.000000	-1821.96	1055.20
2	FID		ACIS-I-6	7.12	576	0.157	0.073	0.006	0.013	0.000000	0.000000	387.64	1702.90
3	GUIDE	used	896402712	8.04	1152	0.301	0.265	0.095	0.164	263.793333	-28.203661	-2213.19	-2170.38
4	GUIDE	used	896402976	7.46	1153	-0.107	-0.279	0.114	0.185	265.099474	-28.923203	628.83	1786.42
5	GUIDE	used	896403072	8.32	1153	-0.024	-0.009	0.086	0.143	263.956439	-28.943077	474.46	-1808.49
6	GUIDE	used	896405048	8.27	1153	-0.061	0.096	0.090	0.145	264.482575	-28.152230	-2266.32	22.37
7	GUIDE	used	896405616	7.83	1151	-0.105	-0.080	0.090	0.150	264.752771	-28.412560	-1277.36	817.23

2.4 Star Slots

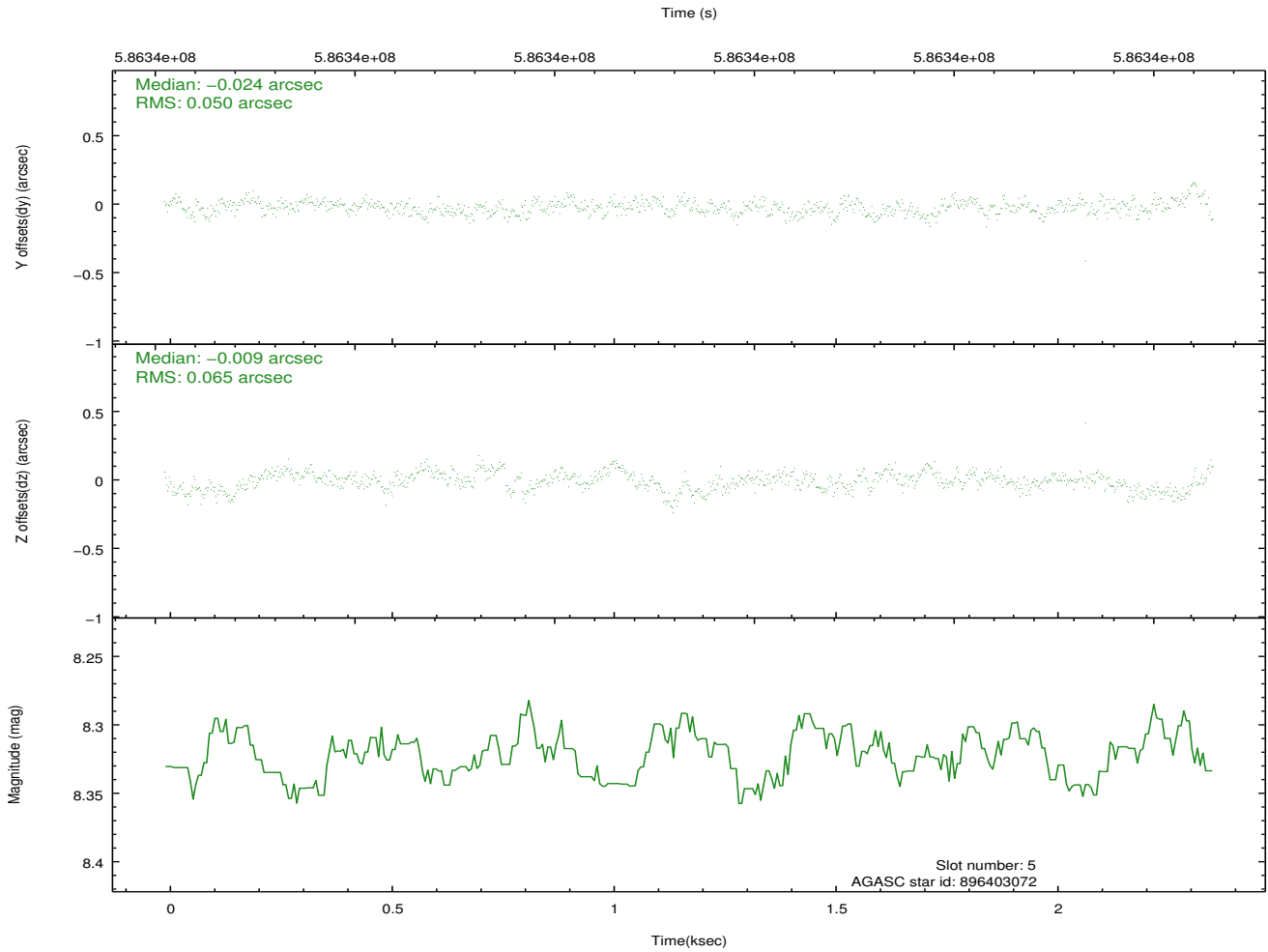
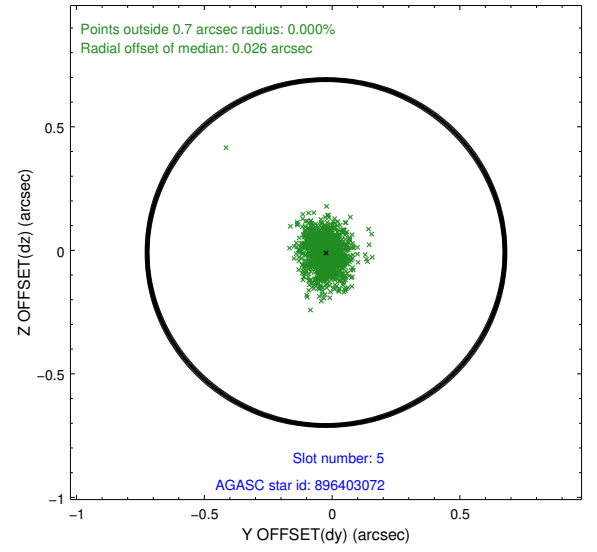
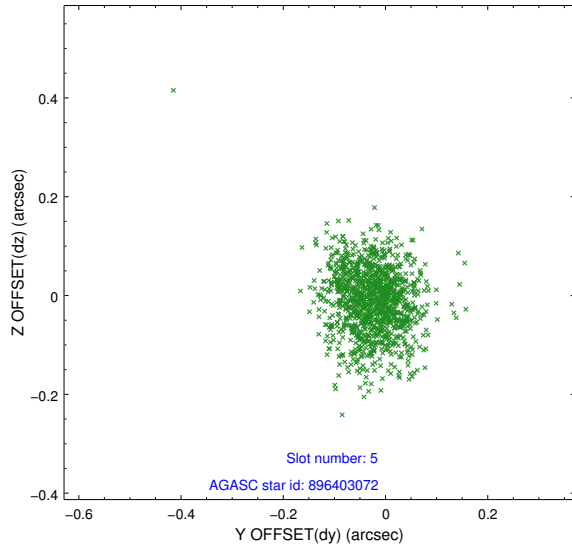
2.4.1 Slot 3



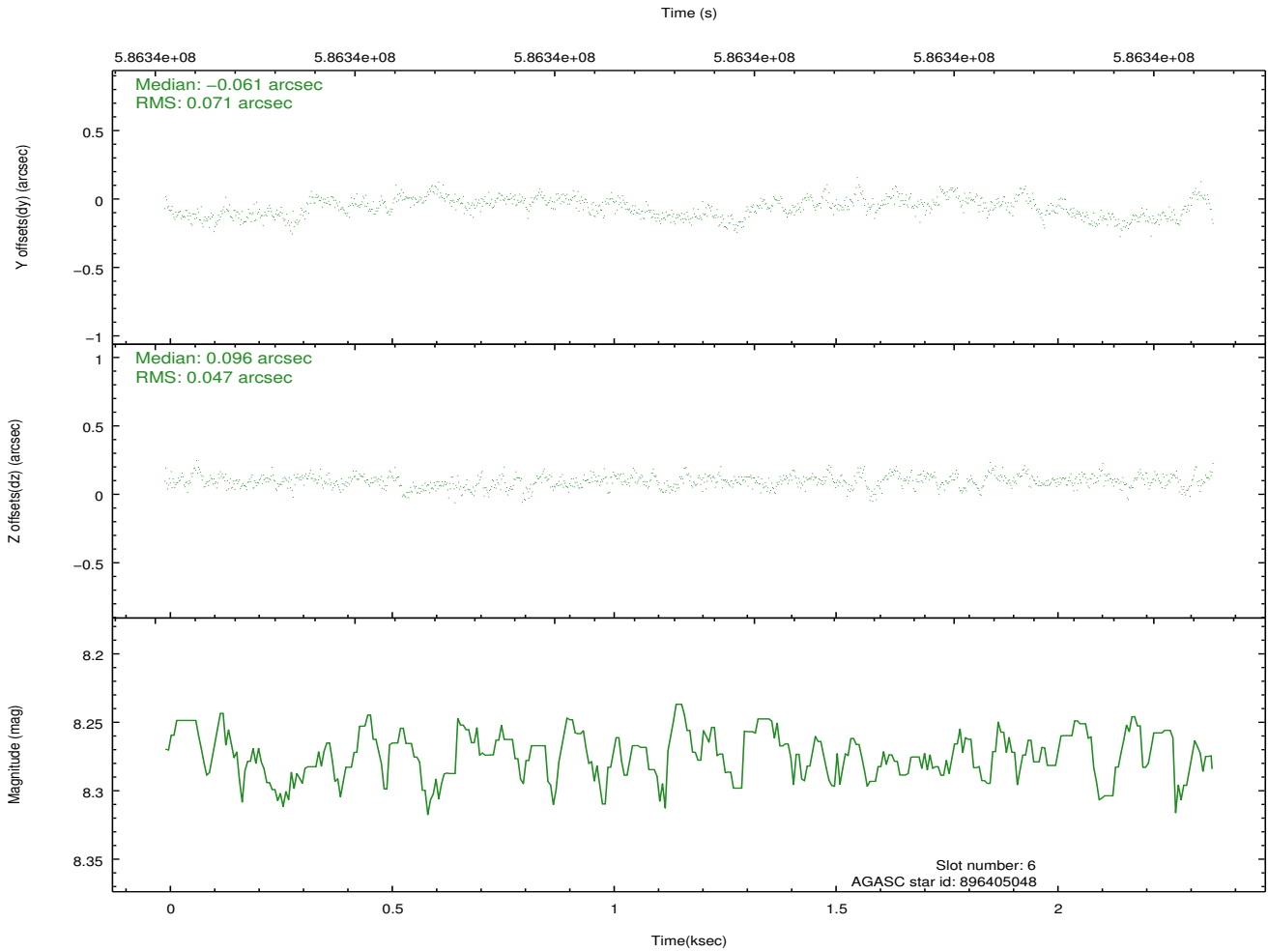
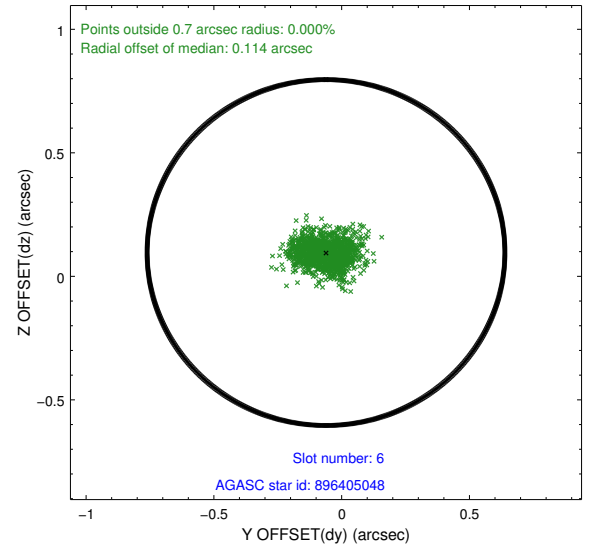
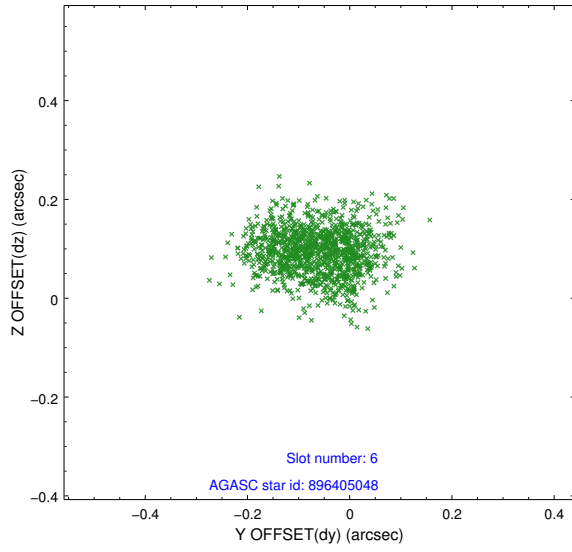
2.4.2 Slot 4



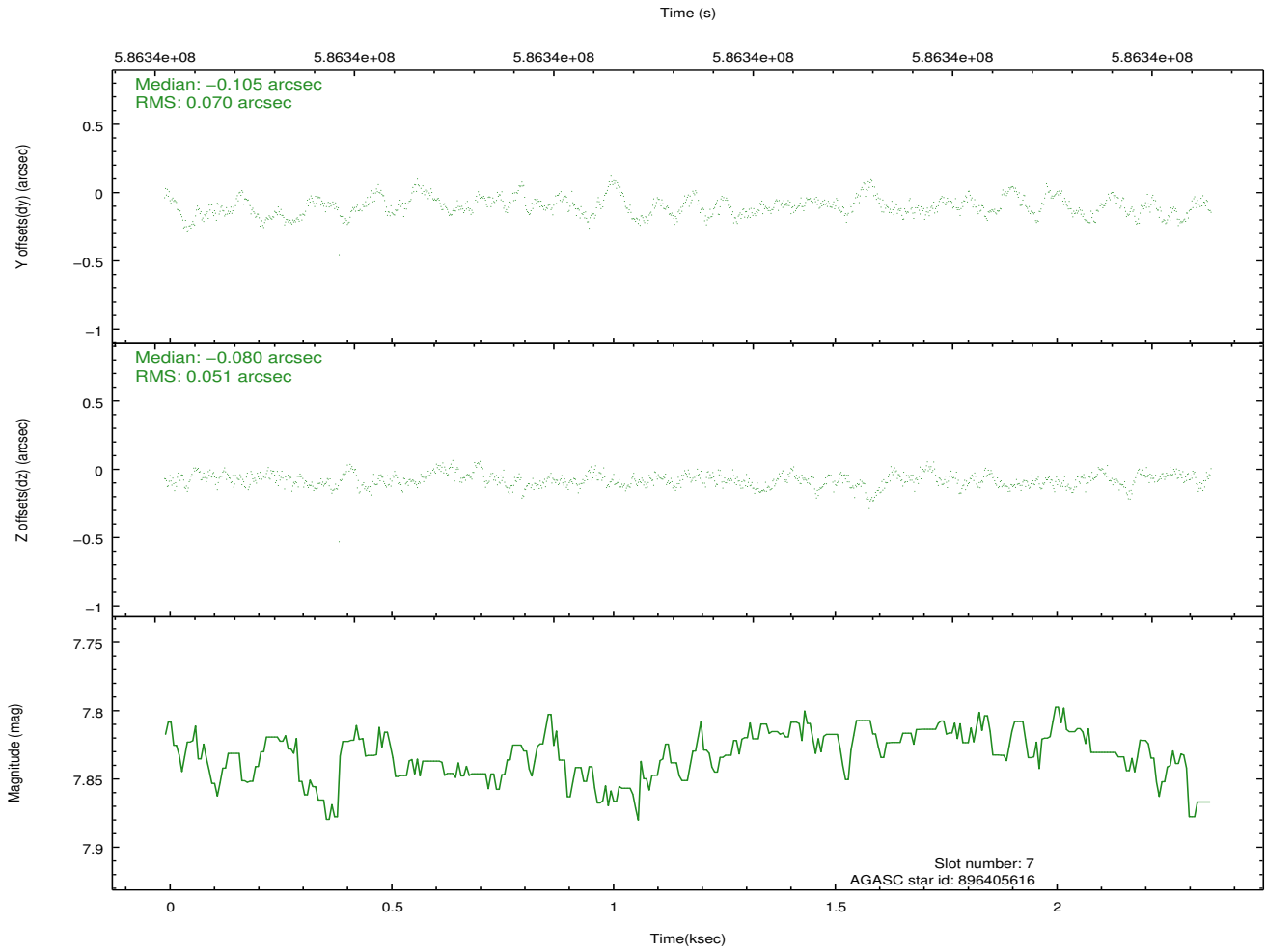
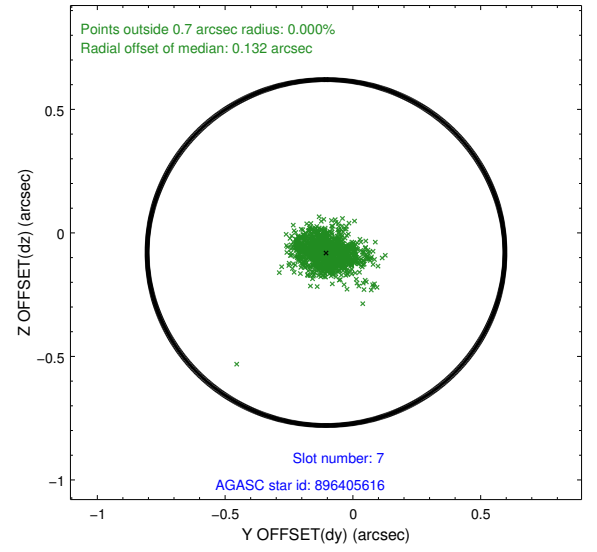
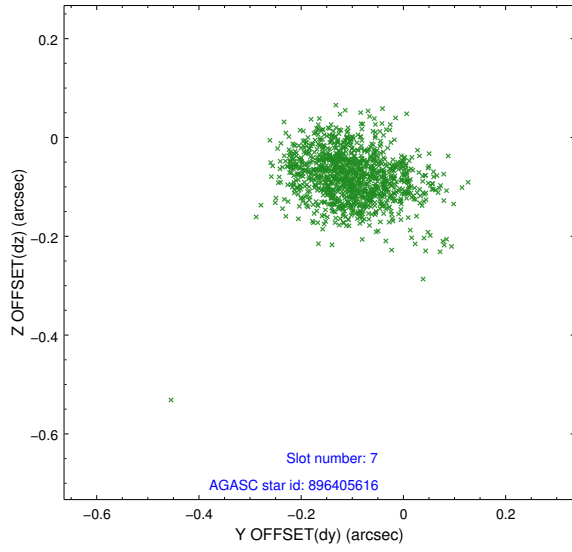
2.4.3 Slot 5



2.4.4 Slot 6

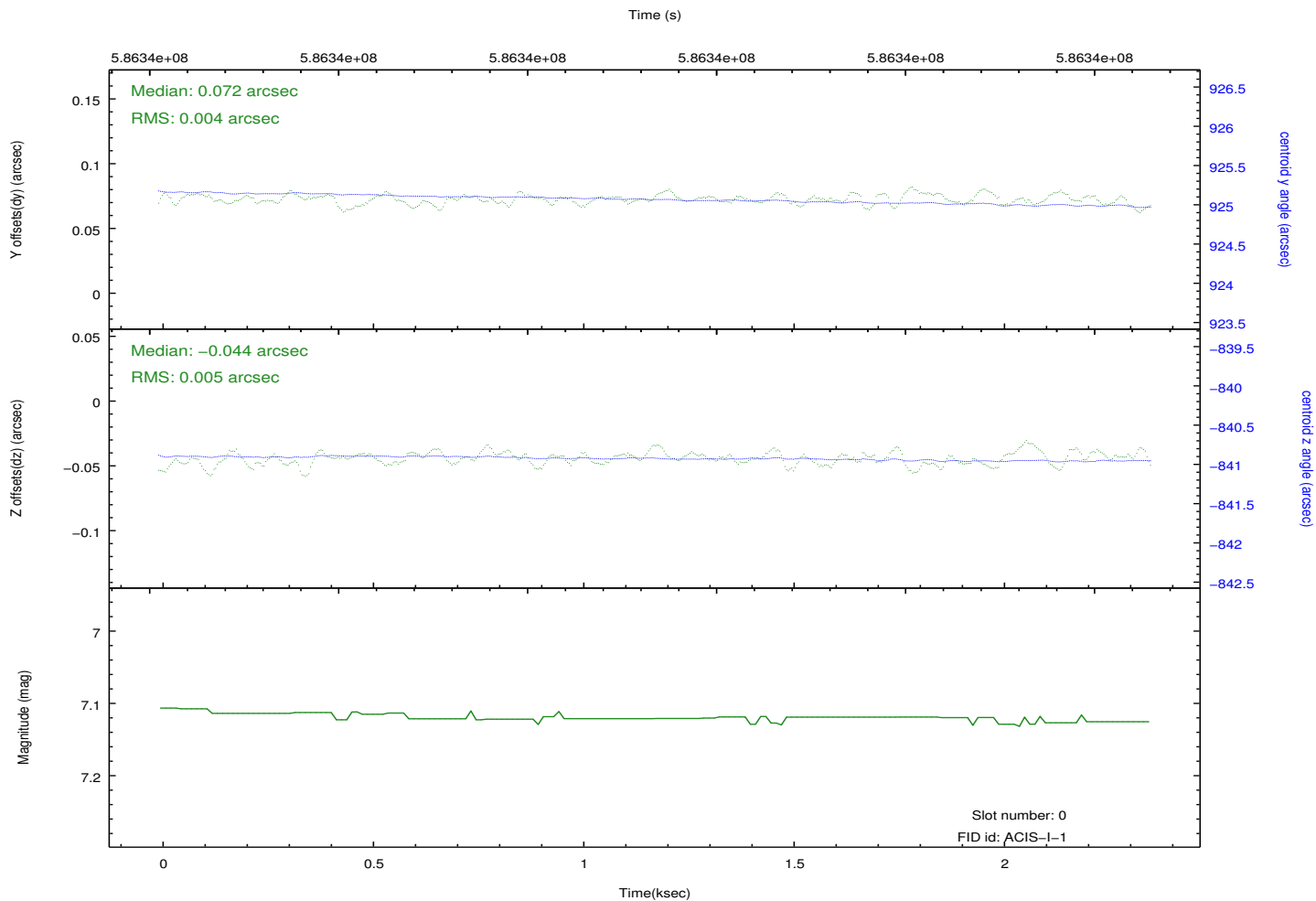
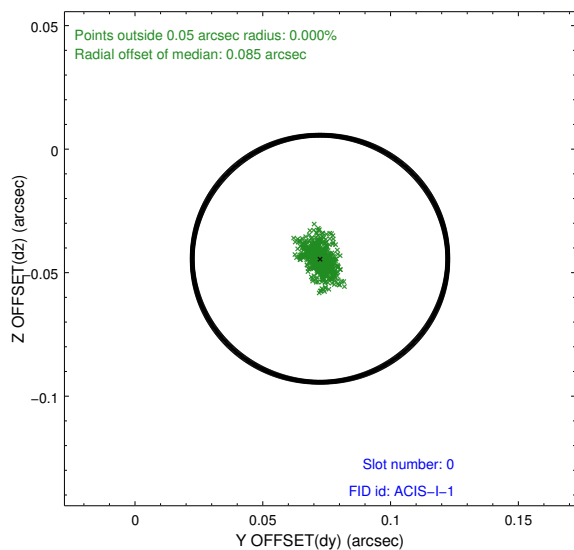
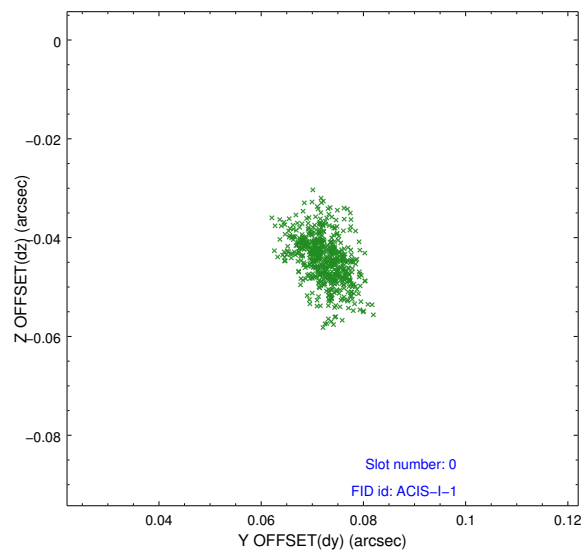


2.4.5 Slot 7

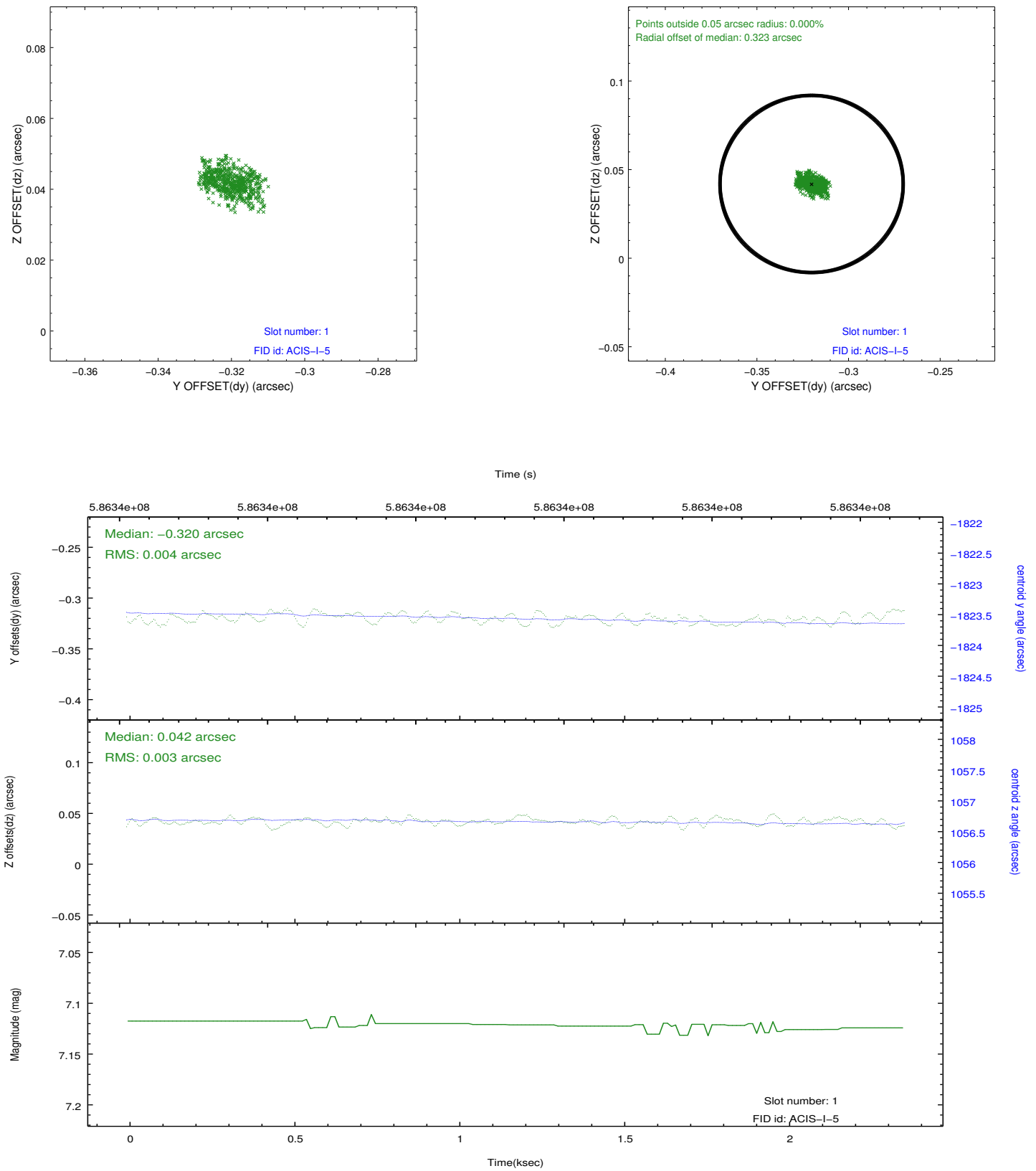


2.5 FID Slots

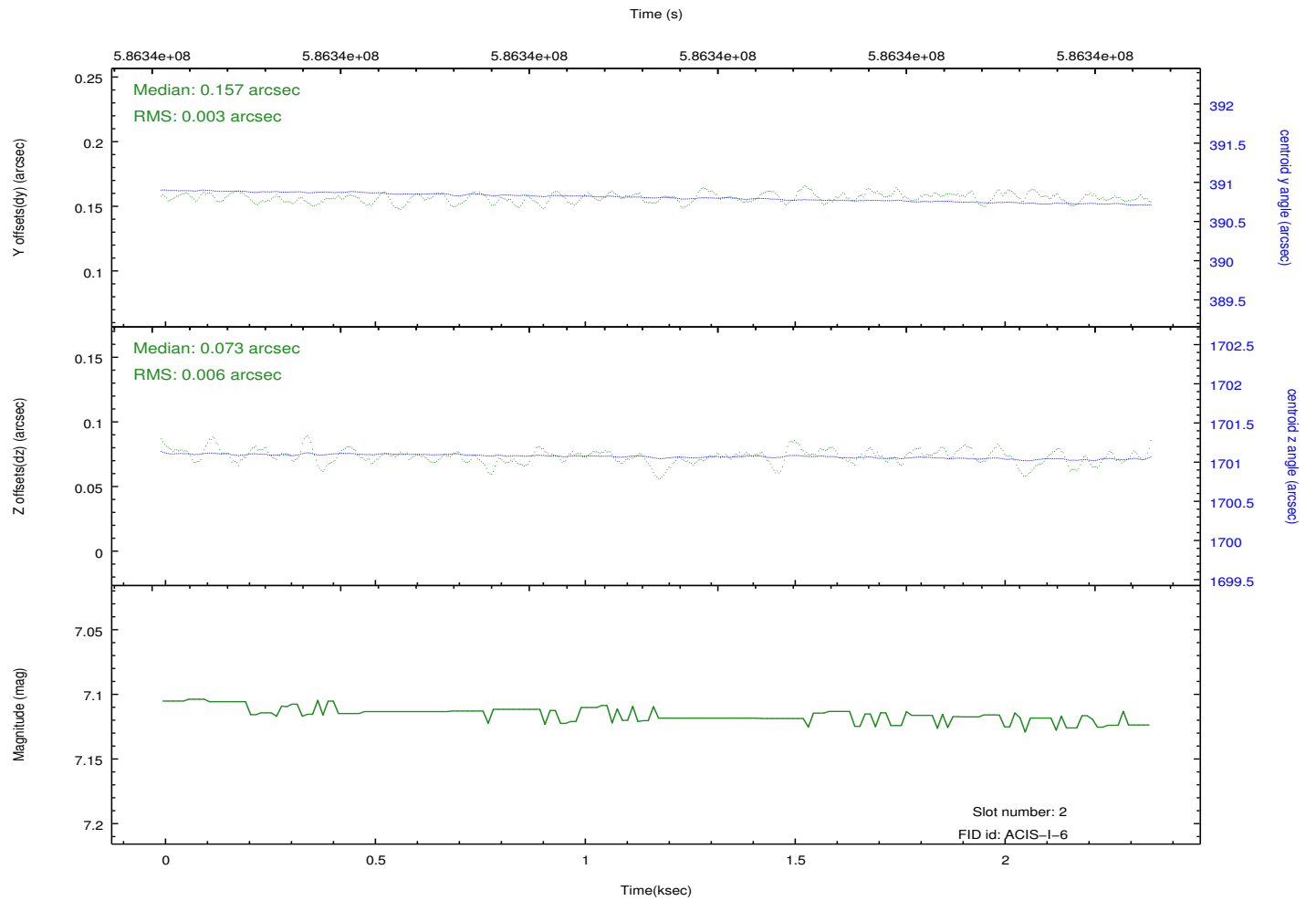
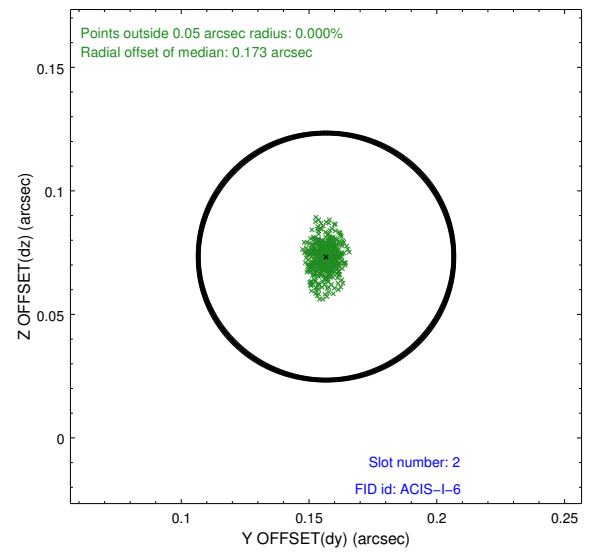
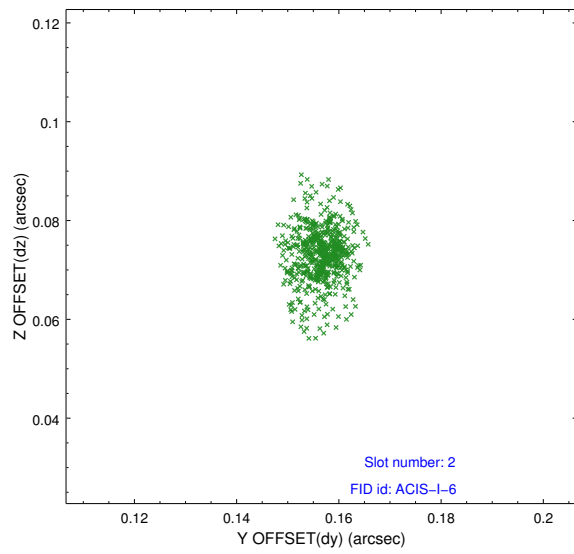
2.5.1 Slot 0



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	1.9530000151396

A.2 Comments