

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18328 - L2 Version 1
Chandra X-Ray Center

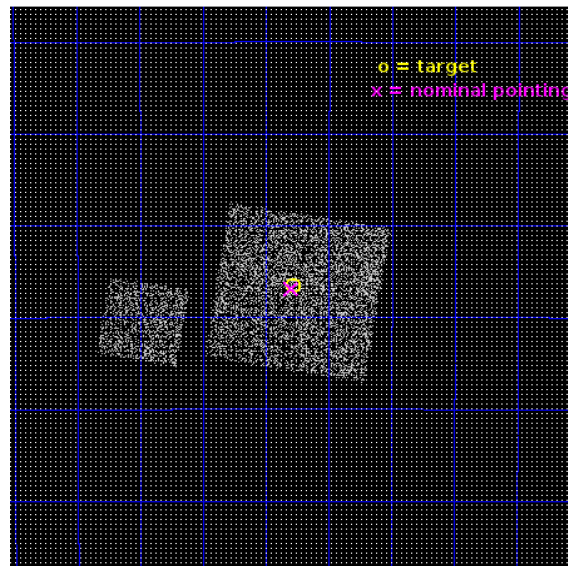
L2 Processing Date : Jul 15 2016

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1 Front

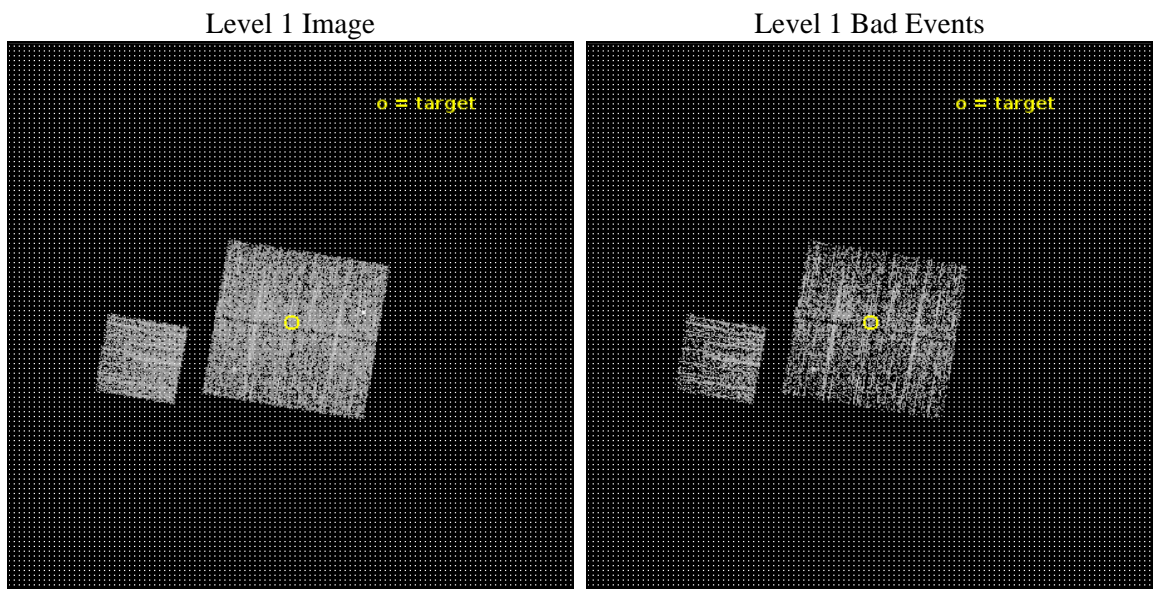
seq_num	300359	Sequence number
obs_id	18328	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.82039	Observer's specified target RA [deg]
dec_targ	-28.6092	Observer's specified target Dec [deg]
ra_nom	266.82450588566	Nominal RA [deg]
dec_nom	-28.615005453881	Nominal Dec [deg]
roll_nom	279.54778168129	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1956.1000151634	Sum of GTIs [s]
livetime	1930.5421284054	Livetime [s]
ontime0	1956.0064834356	Sum of GTIs [s]
ontime1	1956.0475132465	Sum of GTIs [s]
ontime2	1952.9475132227	Sum of GTIs [s]
ontime3	1956.1000151634	Sum of GTIs [s]
ontime6	1952.8243830204	Sum of GTIs [s]
l2events	7513	Number of level 2 events



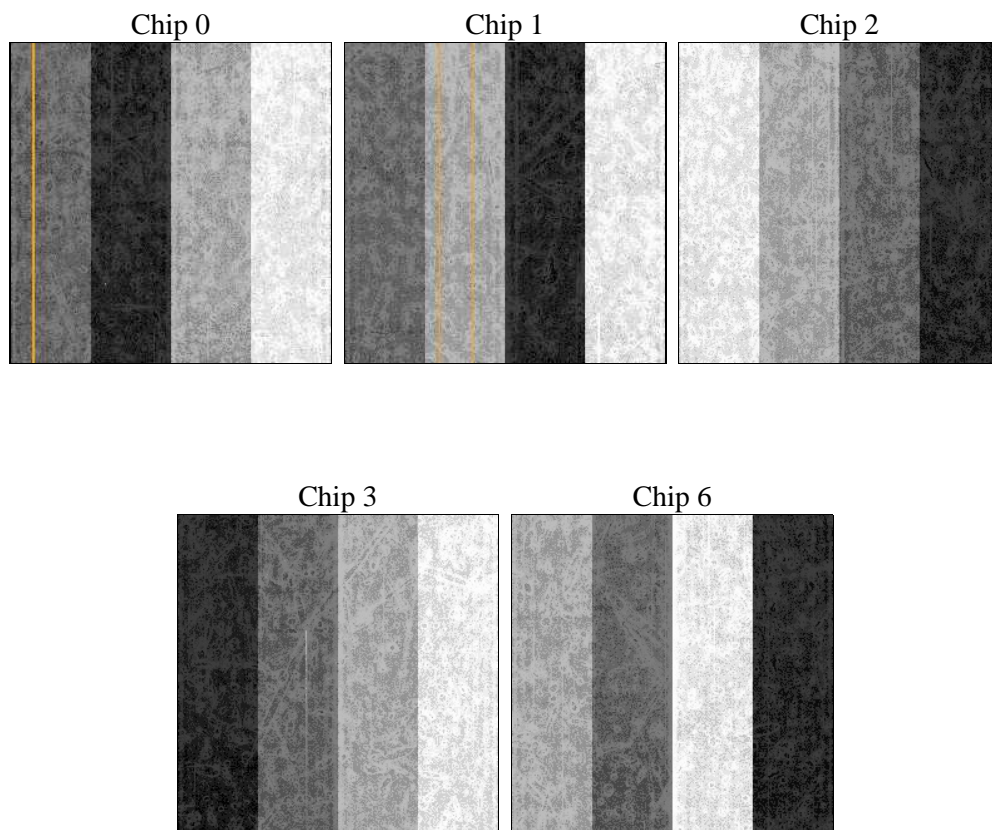
2 OBI

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	1956.1000151634	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1956.0064834356	Sum of GTIs [s]
date	2016-07-16T03:25:55	Date and time of file creation	ontime1	1956.0475132465	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1952.9475132227	Sum of GTIs [s]
			ontime3	1956.1000151634	Sum of GTIs [s]
			ontime6	1952.8243830204	Sum of GTIs [s]
			l1events	59380	Number of level 1 events

2.1.4 Events

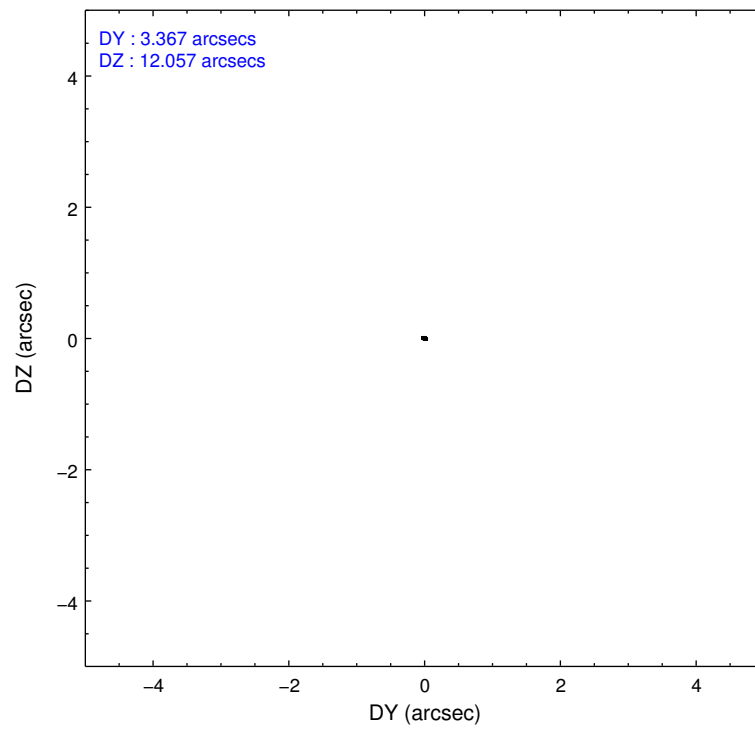
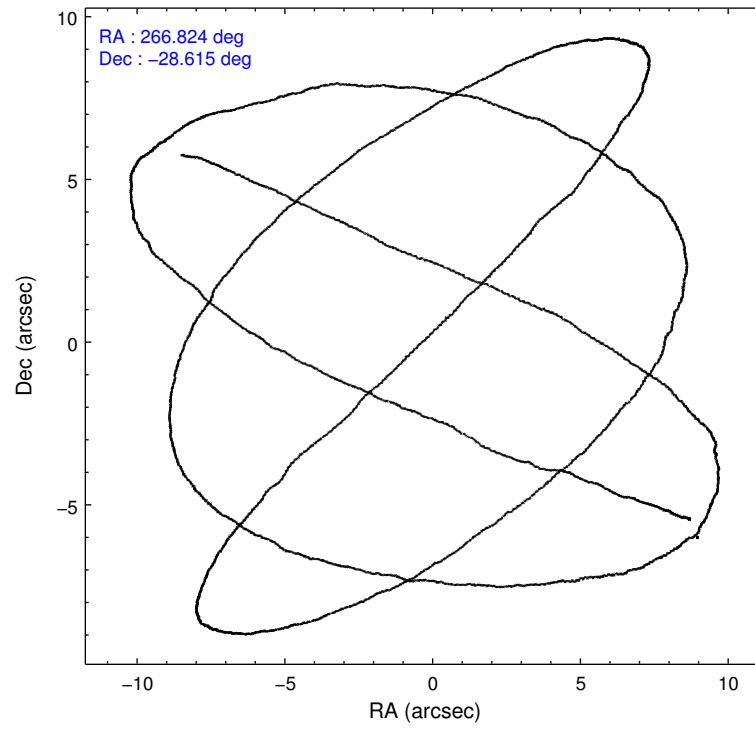
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11068	12615	11499	12111	12087
rejected events	9177	9946	9873	10477	10570
rejected %	82%	78%	85%	86%	87%

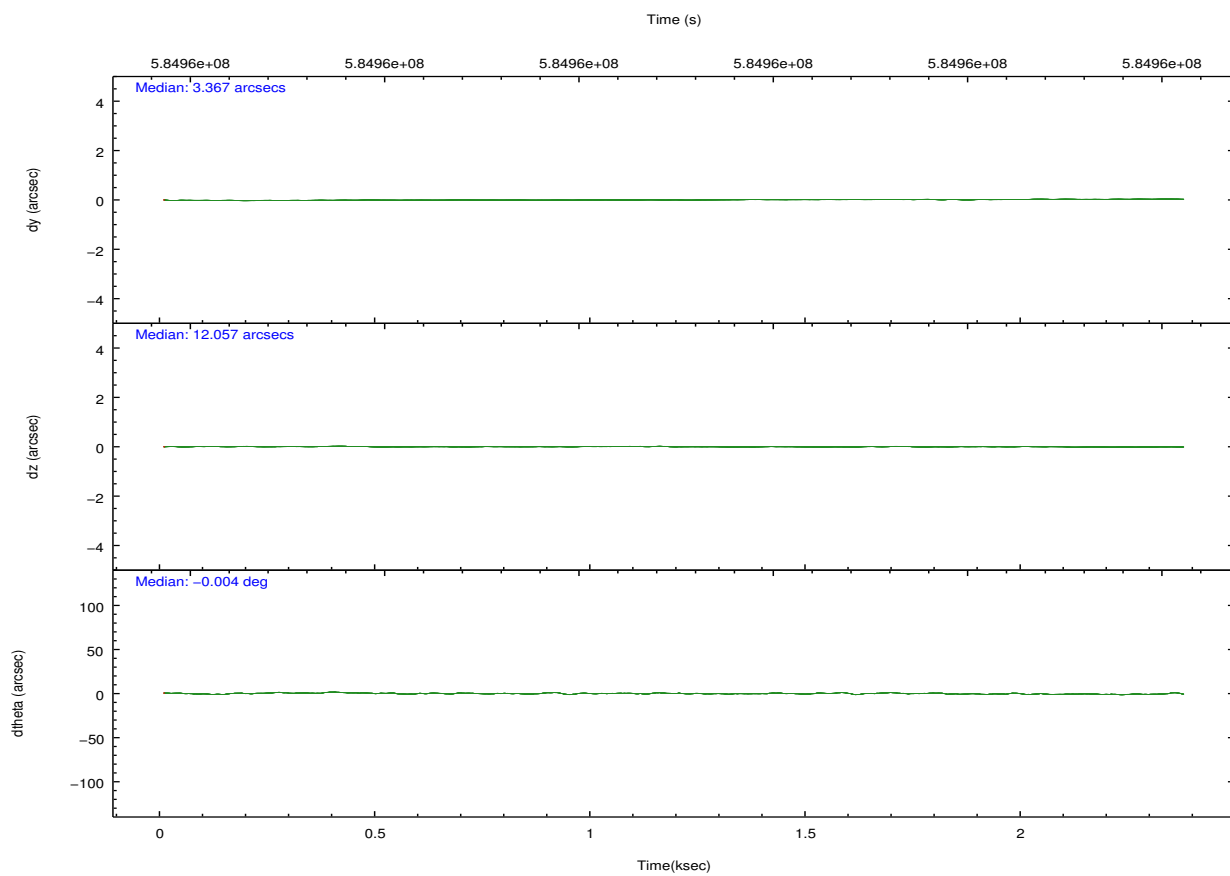
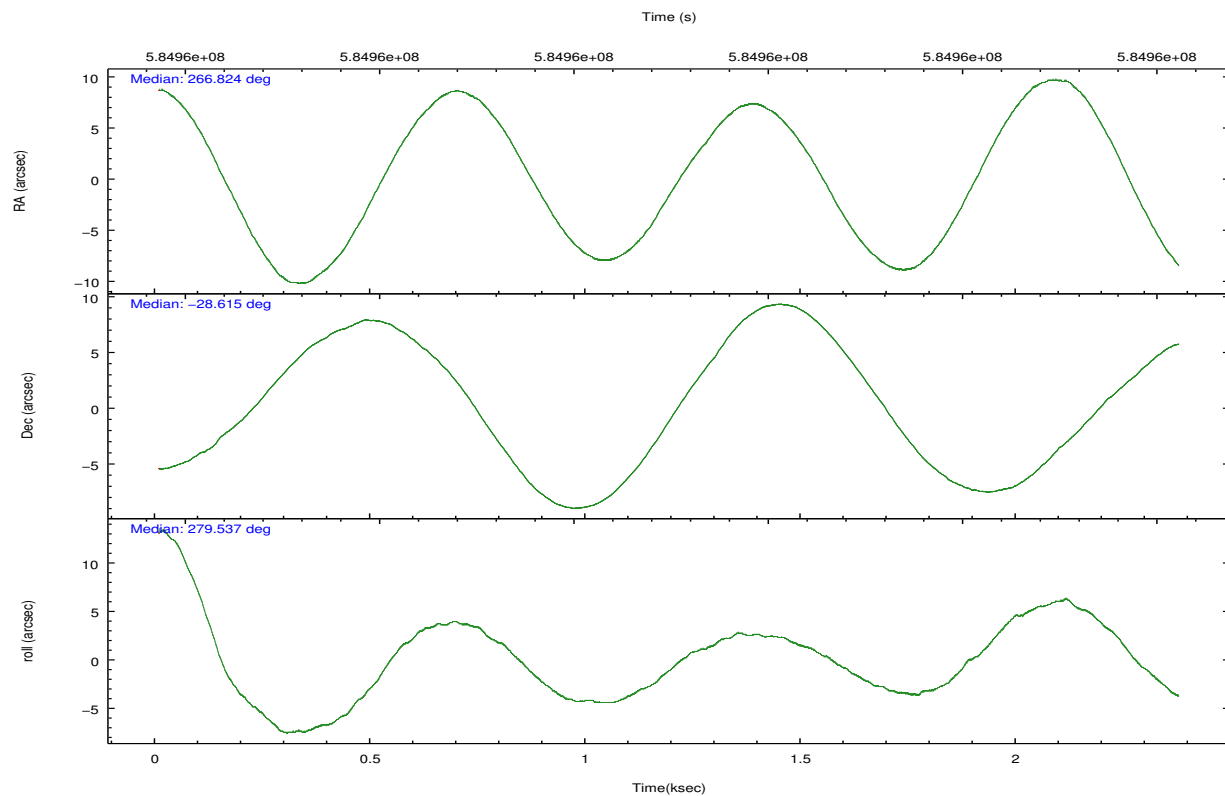
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	814	1441	712	702	612
	7%	11%	6%	5%	5%
grade 1 events	3	9	3	7	6
	0%	0%	0%	0%	0%
grade 2 events	415	428	355	336	326
	3%	3%	3%	2%	2%
grade 3 events	172	189	133	149	139
	1%	1%	1%	1%	1%
grade 4 events	154	210	160	160	134
	1%	1%	1%	1%	1%
grade 5 events	523	613	512	629	609
	4%	4%	4%	5%	5%
grade 6 events	340	406	269	288	310
	3%	3%	2%	2%	2%
grade 7 events	8647	9319	9355	9840	9951
	78%	73%	81%	81%	82%

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	266.804307	266.8245058856601	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.593762	-28.61500545388065	CCD I3 on	Y	Y
[deg] Pointing Roll	279.329406	279.547781681292	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)	584962760.184000	584962384.21908	CCD S5 on	N	N
Observation start date	2016-07-15T09:38:12	2016-07-15T09:33:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	584964940.184000	584965073.81924	On-chip summing requested	N	N
Observation end date	2016-07-15T10:14:32	2016-07-15T10:17:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



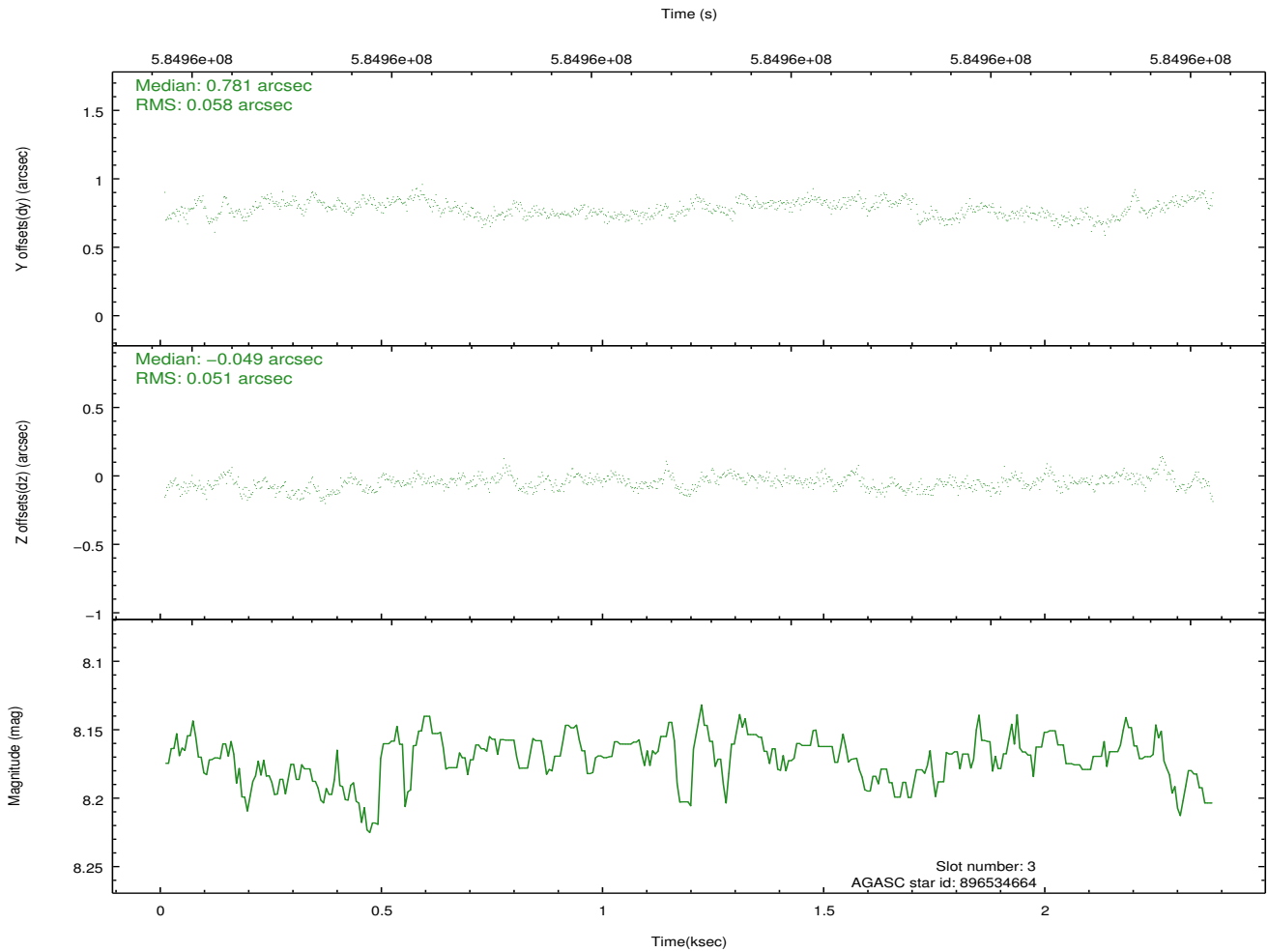
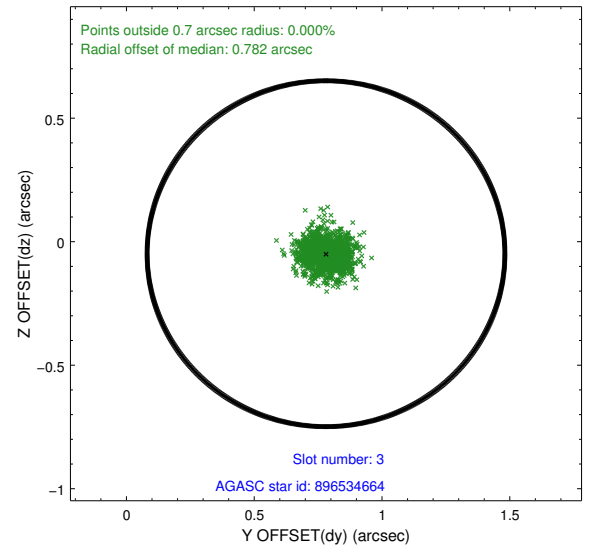
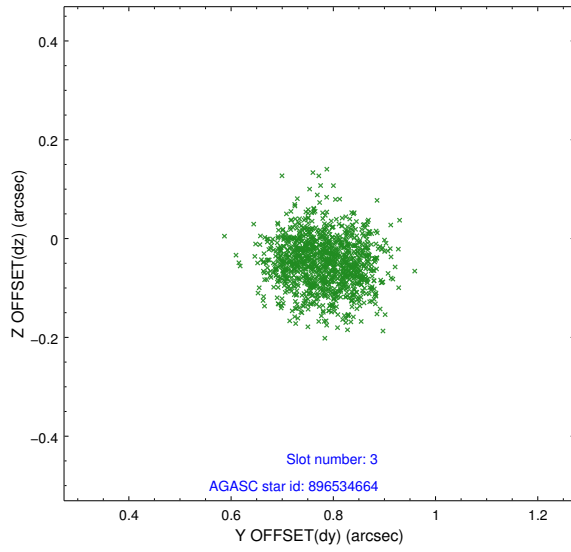


Slot Statistics

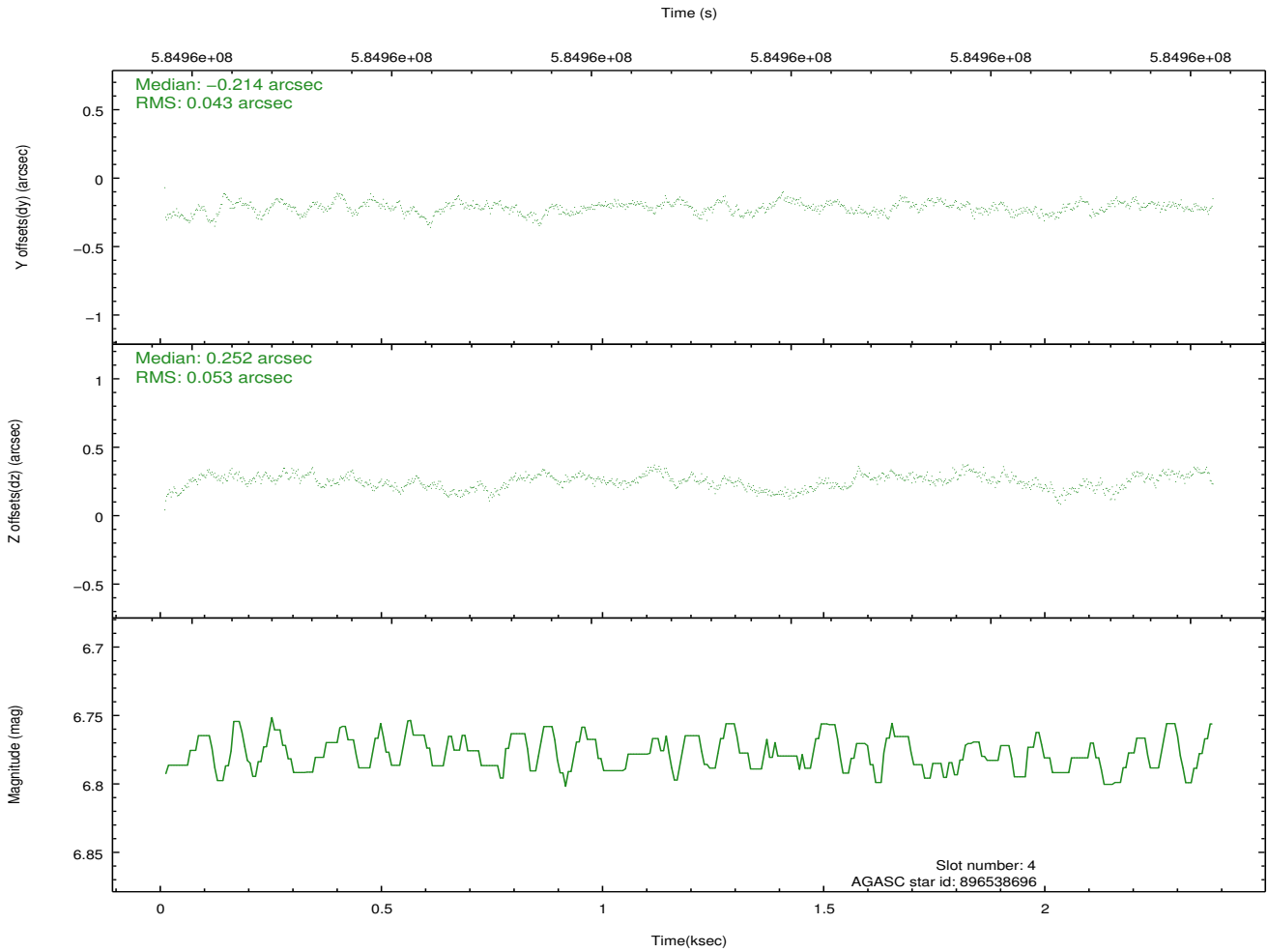
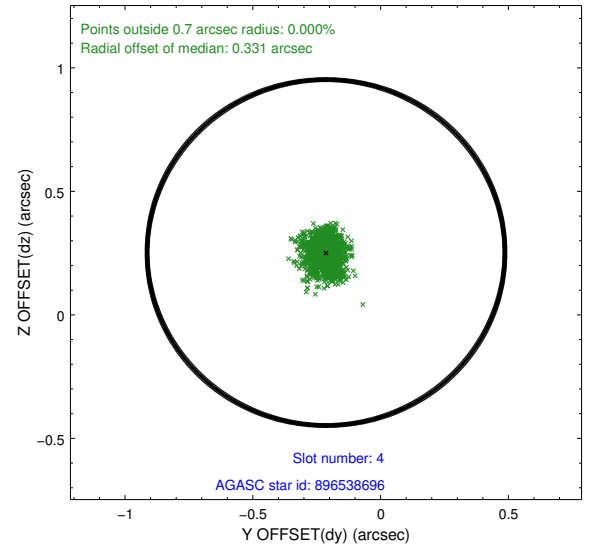
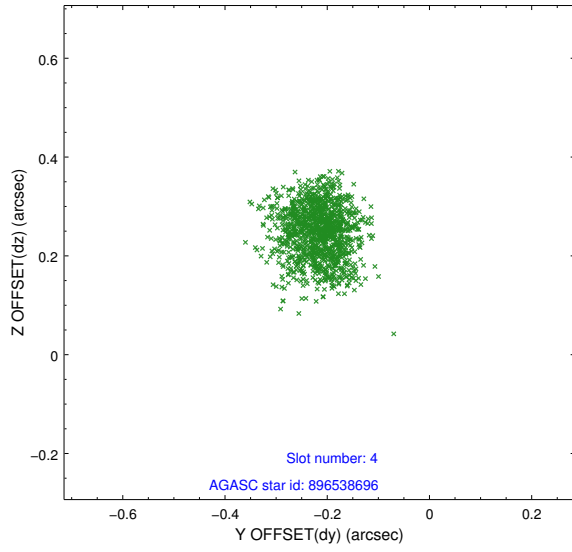
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	579	0.154	-0.049	0.008	0.016	0.000000	0.000000	936.59	-835.61
1	FID		ACIS-I-2	7.16	579	-0.037	-0.108	0.009	0.017	0.000000	0.000000	-756.16	-843.52
2	FID		ACIS-I-5	7.22	579	-0.210	0.229	0.009	0.019	0.000000	0.000000	-1813.34	1060.69
3	GUIDE	used	896534664	8.17	1154	0.781	-0.049	0.084	0.128	266.405570	-28.407461	-863.09	-1137.85
4	GUIDE	used	896538696	6.78	1157	-0.214	0.252	0.072	0.115	266.298470	-28.325572	-1209.61	-1426.88
5	GUIDE	used	896538920	8.89	1156	-0.148	-0.232	0.098	0.153	266.278728	-29.143592	1688.48	-1953.47
6	GUIDE	used	896540888	7.87	1156	-0.193	0.045	0.071	0.127	267.212234	-28.246138	-1021.69	1477.16
7	GUIDE	used	896541576	8.14	1154	-0.215	-0.015	0.094	0.145	267.051055	-28.762912	727.03	670.87

2.4 Star Slots

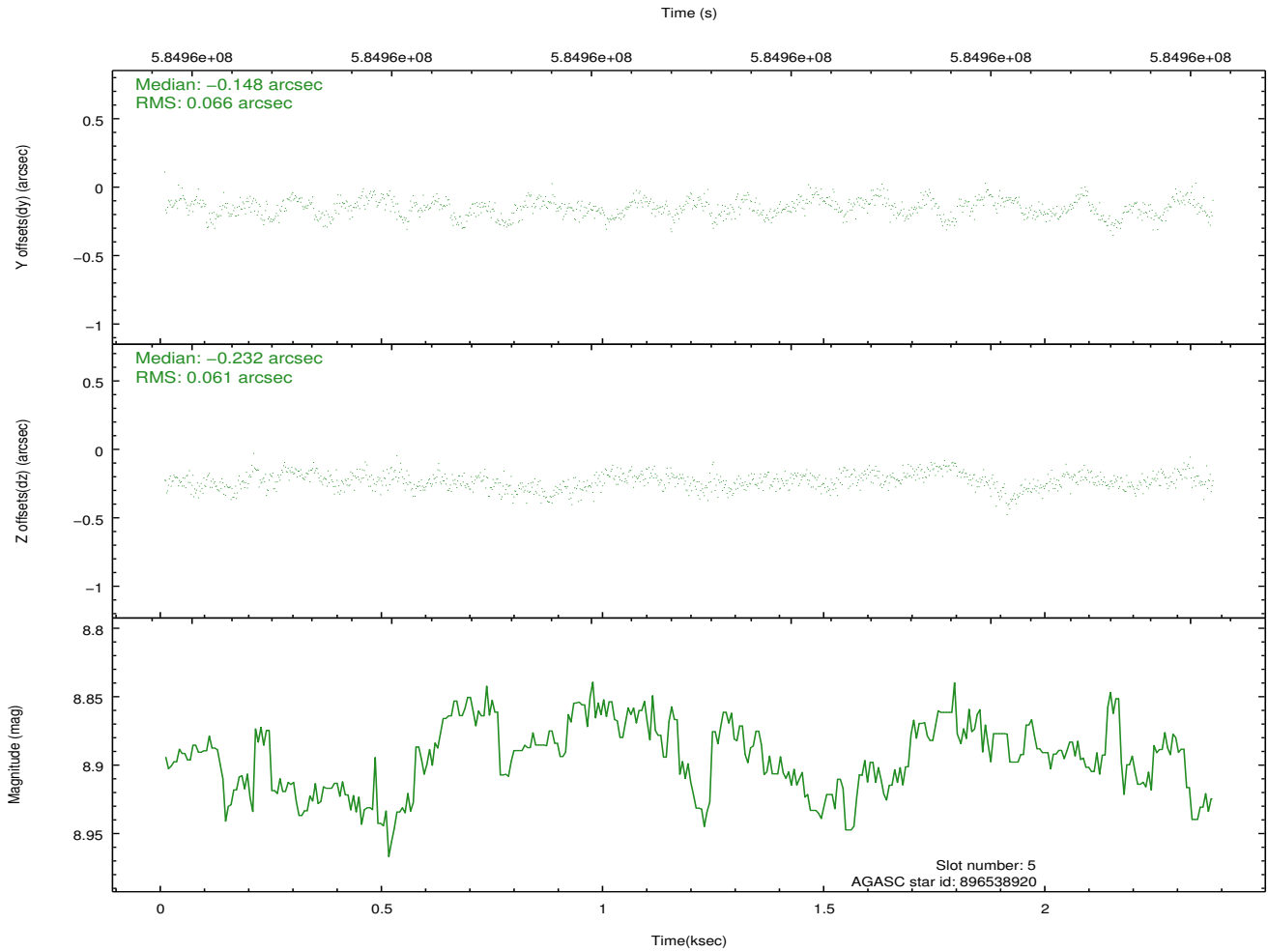
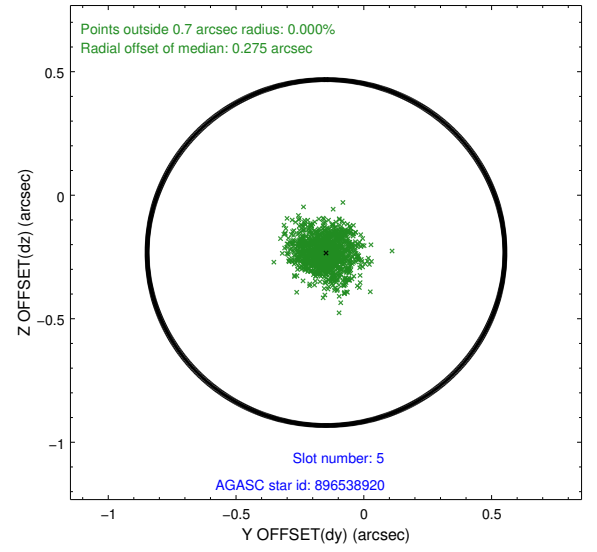
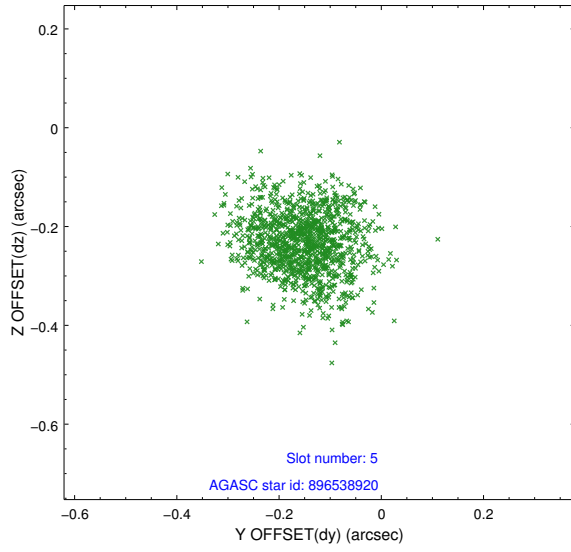
2.4.1 Slot 3



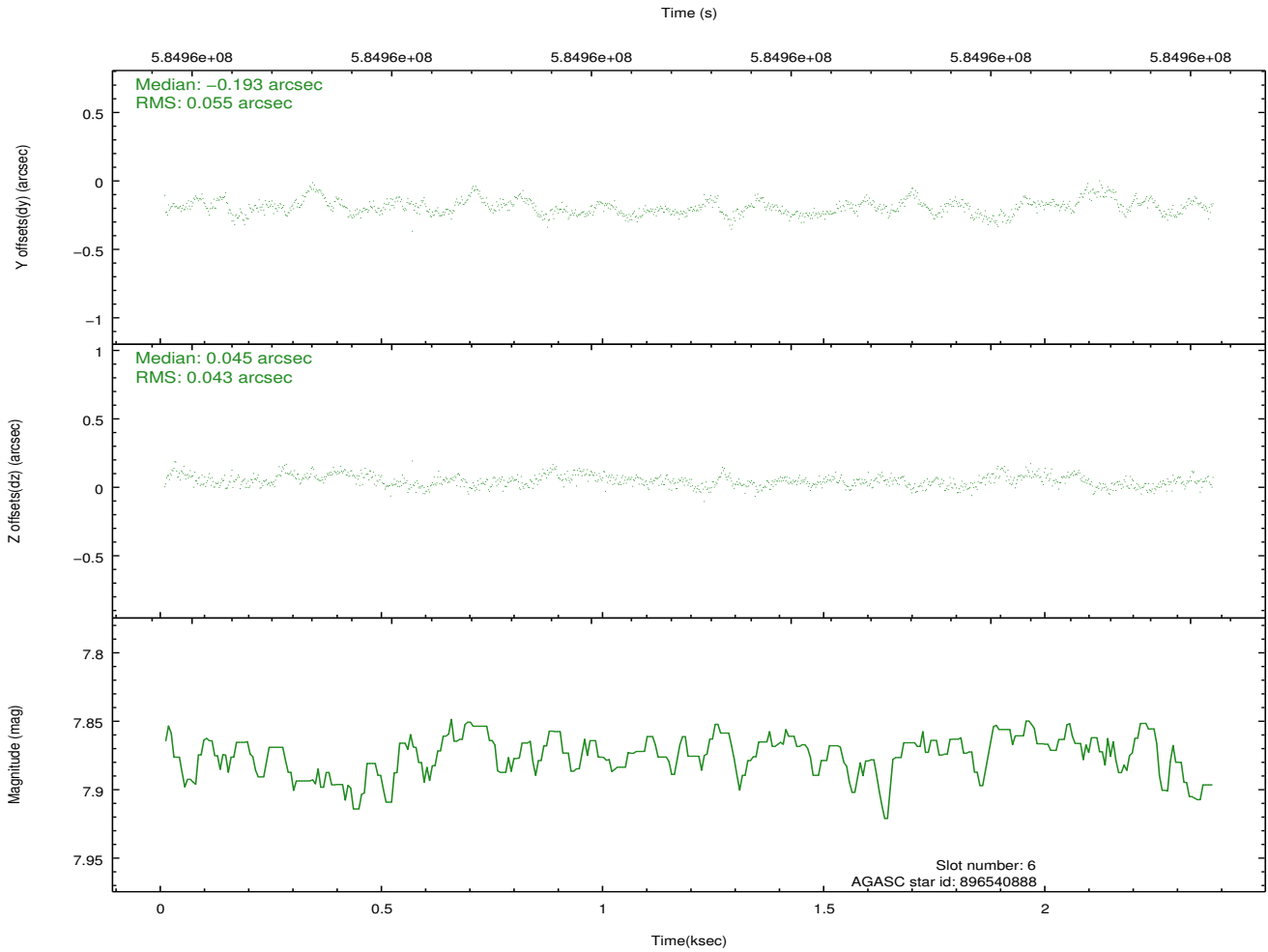
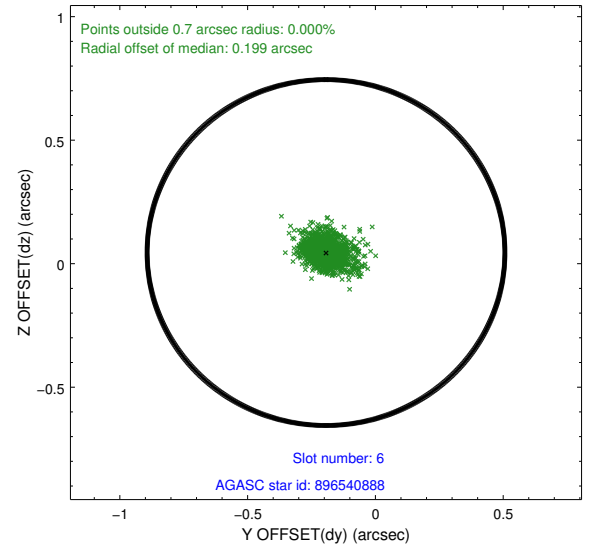
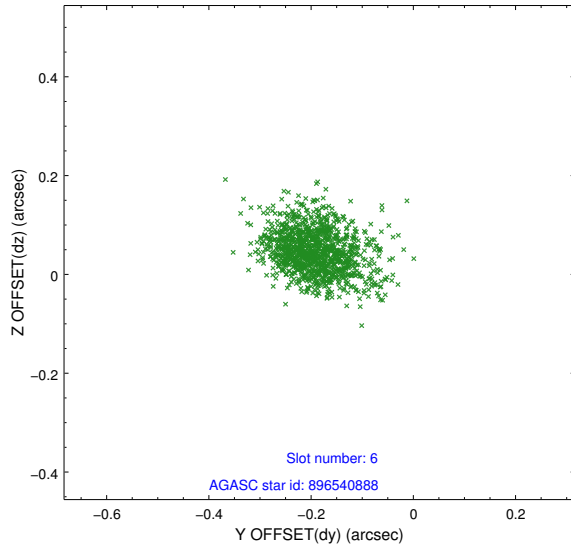
2.4.2 Slot 4



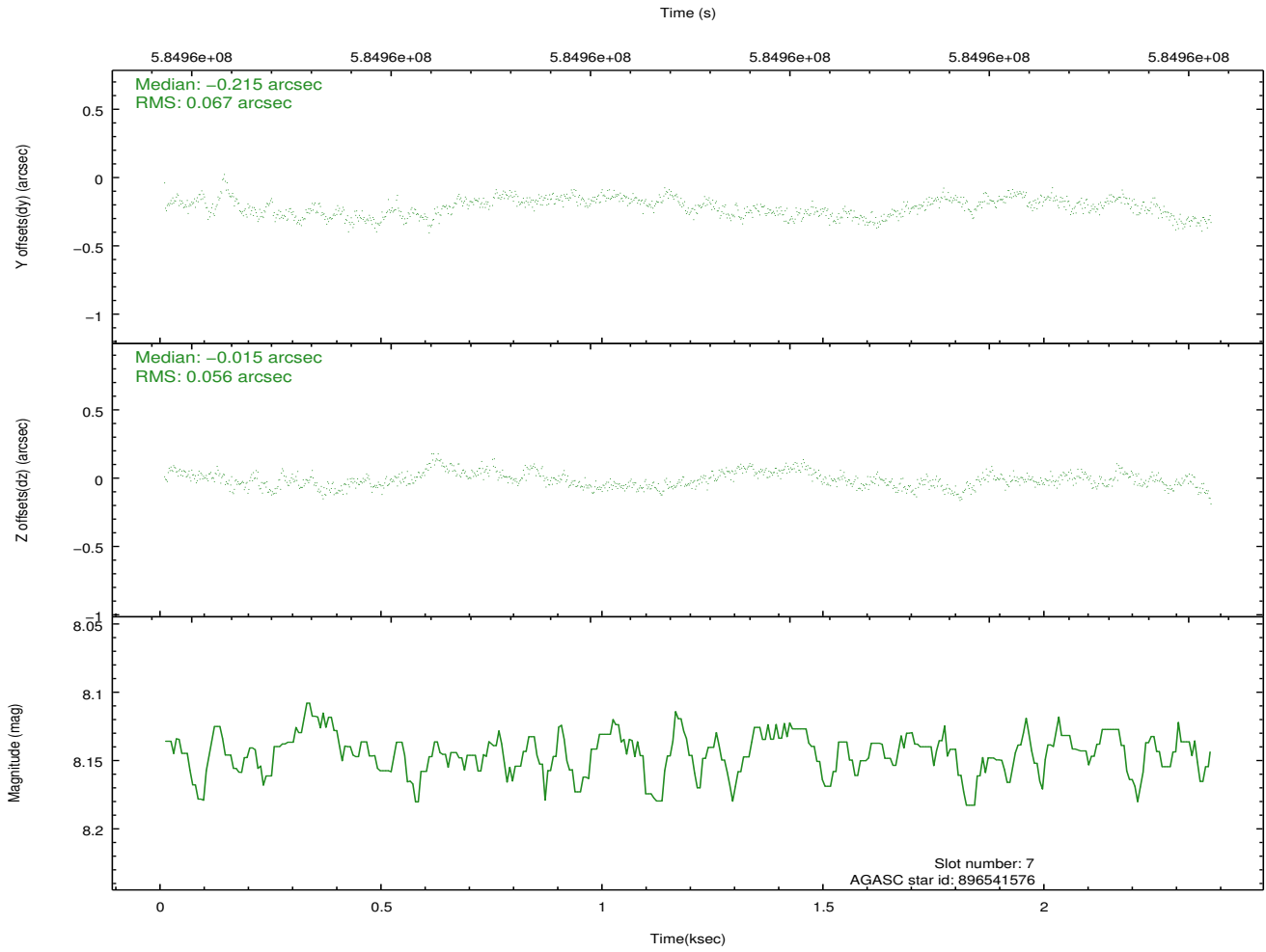
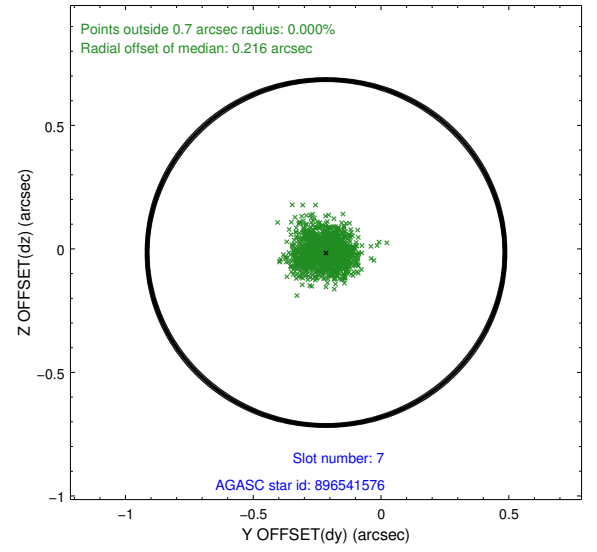
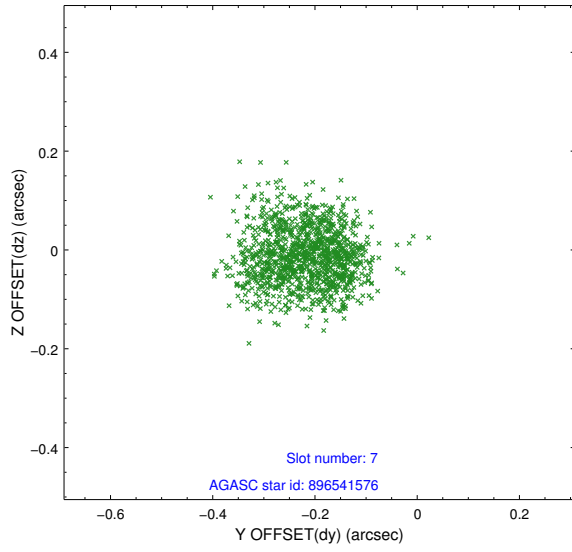
2.4.3 Slot 5



2.4.4 Slot 6

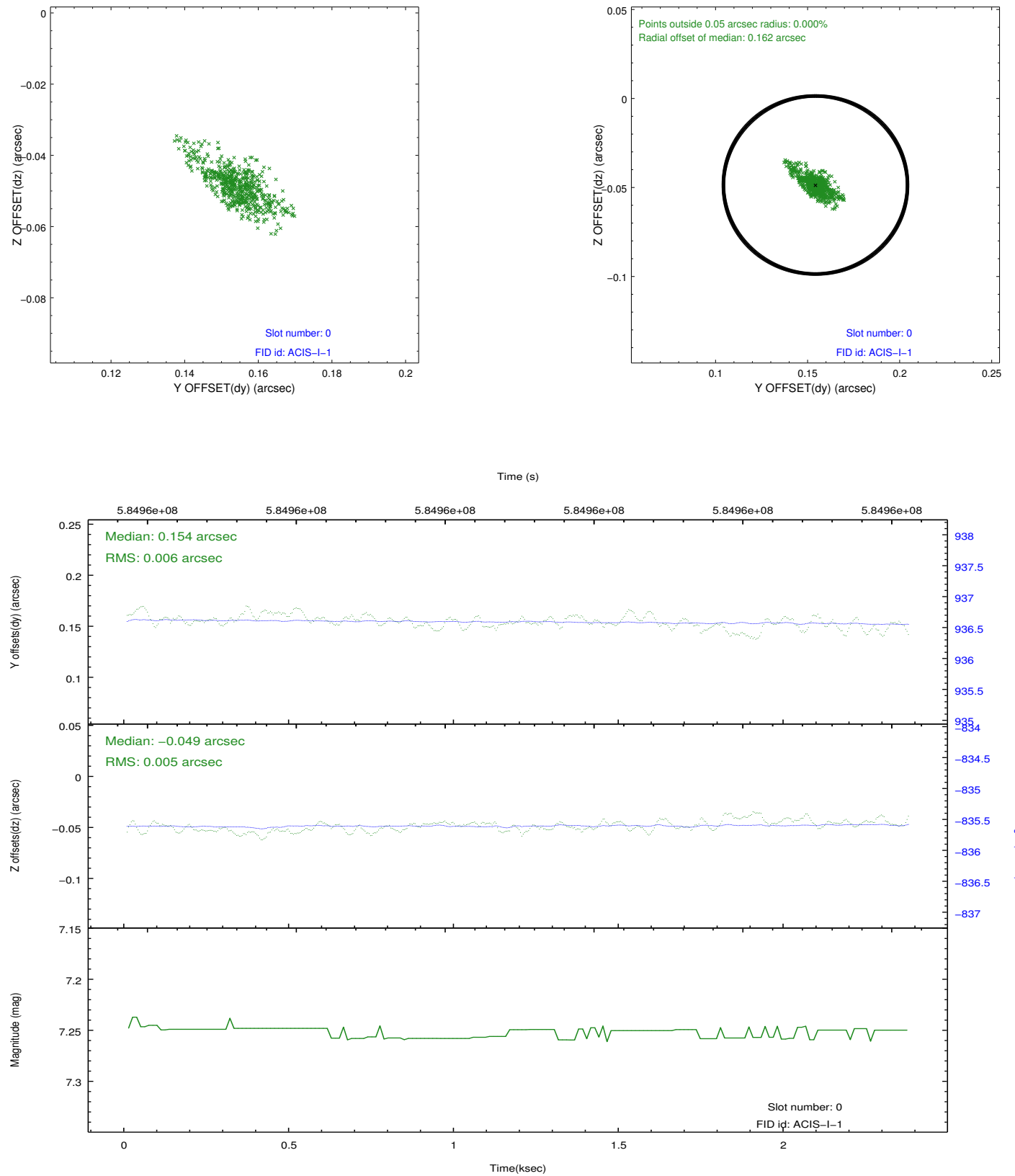


2.4.5 Slot 7

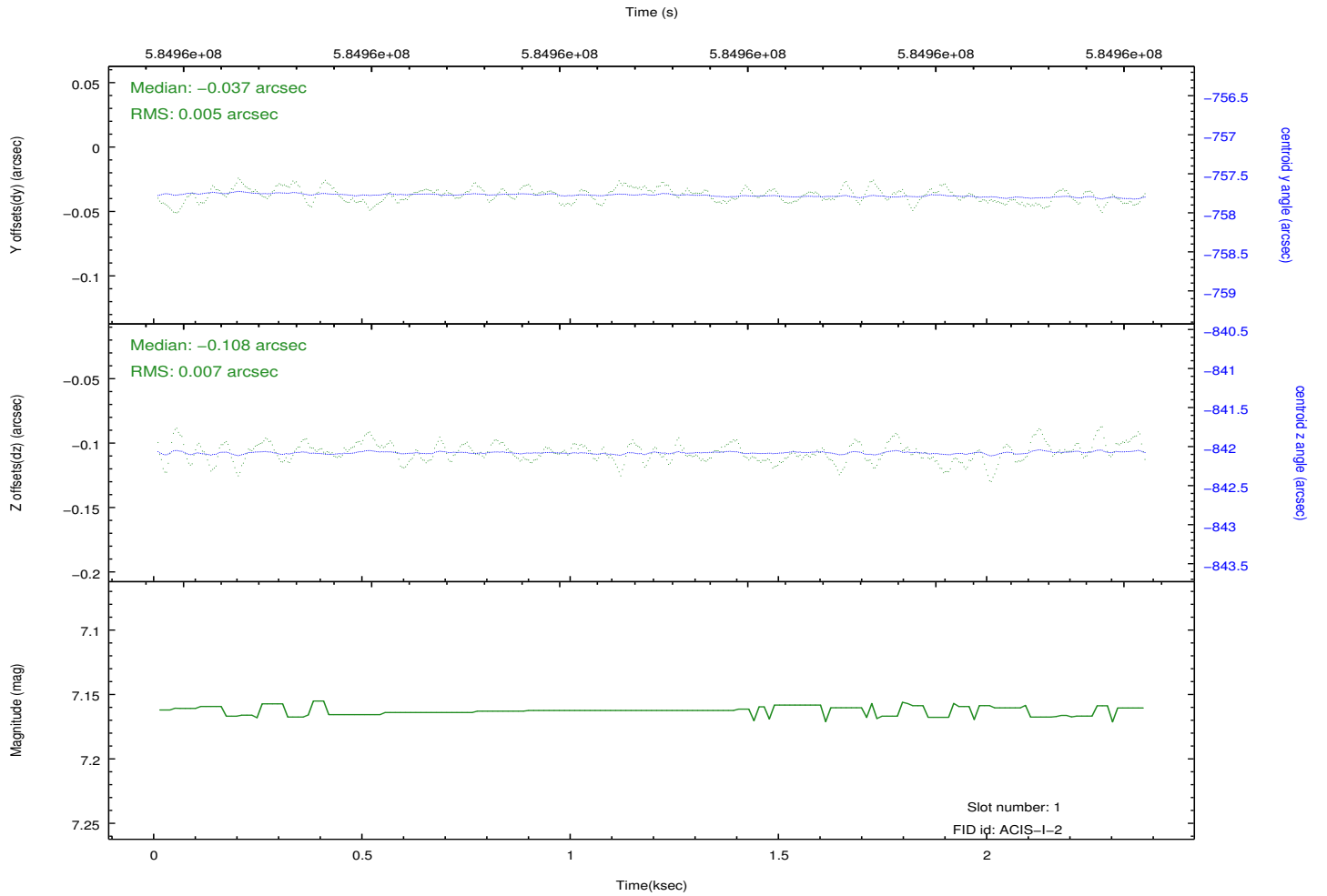
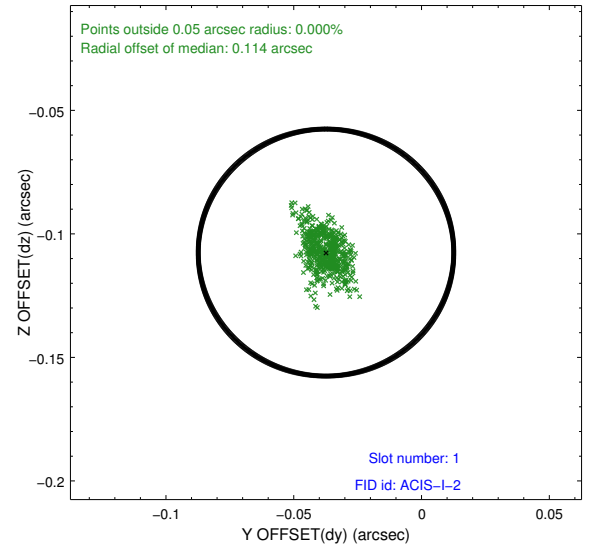
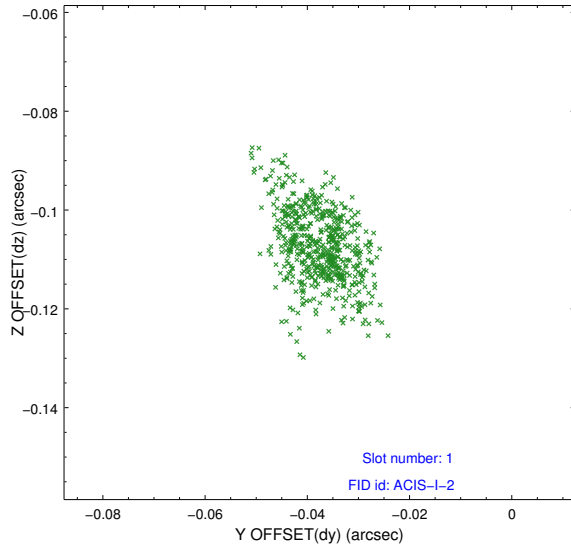


2.5 FID Slots

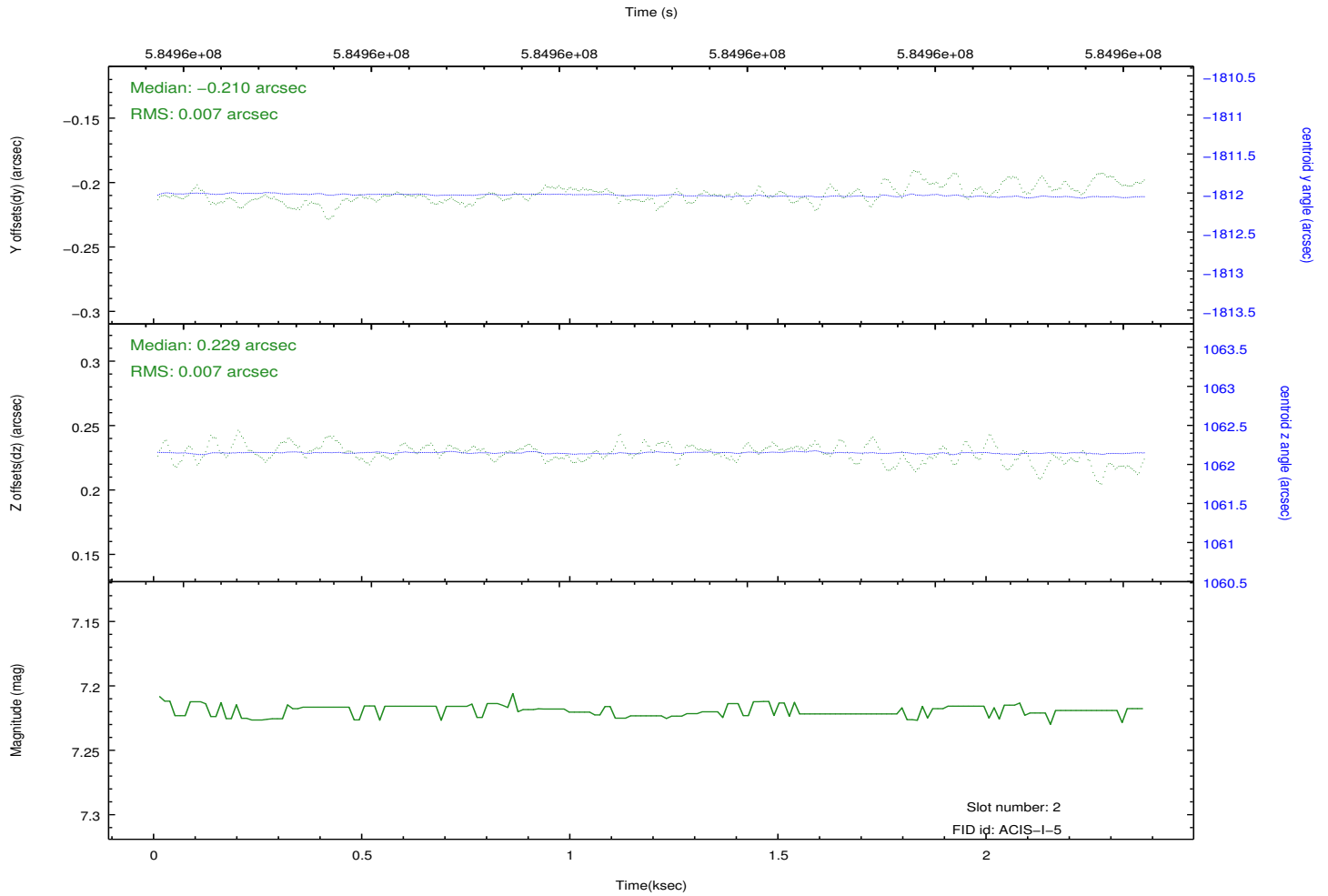
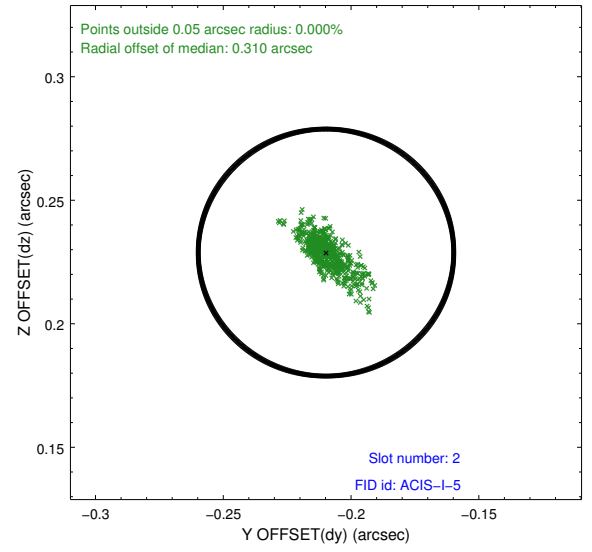
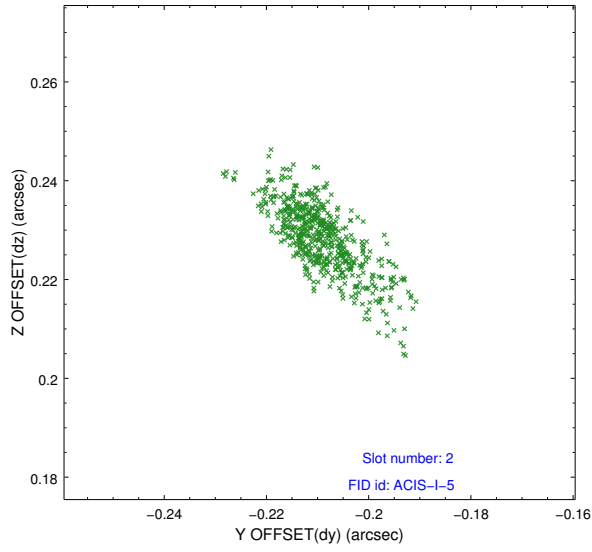
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9561000151634

A.2 Comments