

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18646 - L2 Version 1
Chandra X-Ray Center

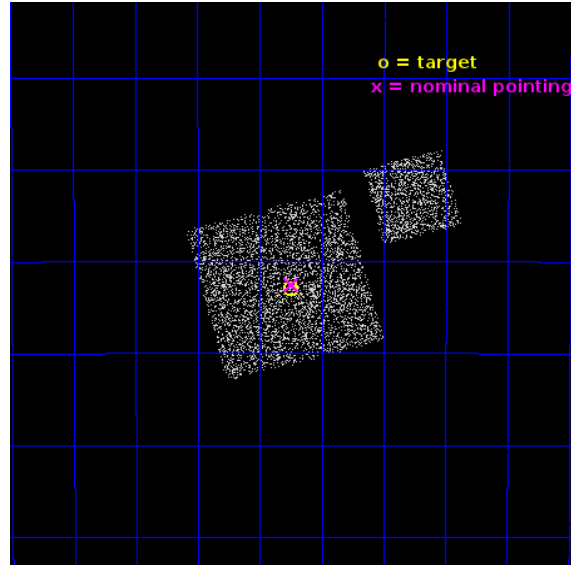
L2 Processing Date : May 22 2016

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1 Front

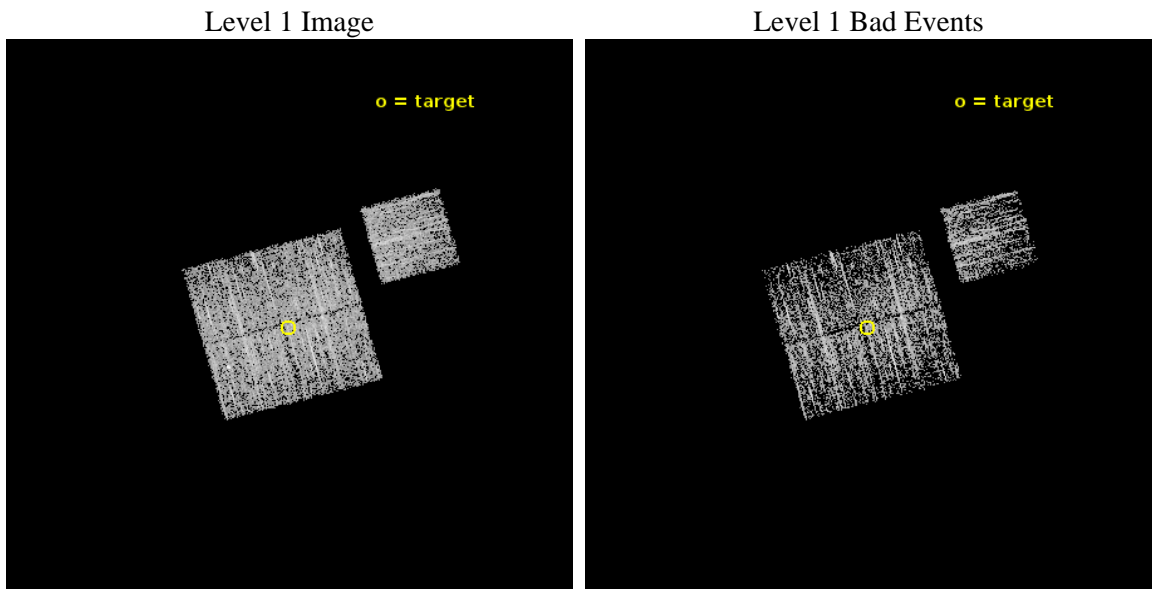
seq_num	300370	Sequence number
obs_id	18646	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.06193	Observer's specified target RA [deg]
dec_targ	-30.04948	Observer's specified target Dec [deg]
ra_nom	266.06116428642	Nominal RA [deg]
dec_nom	-30.042502410054	Nominal Dec [deg]
roll_nom	74.830717756589	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.5473157167	Sum of GTIs [s]
livetime	1929.9966503839	Livetime [s]
ontime0	1955.4242060184	Sum of GTIs [s]
ontime1	1955.4652357101	Sum of GTIs [s]
ontime2	1955.506286025	Sum of GTIs [s]
ontime3	1955.5473157167	Sum of GTIs [s]
ontime6	1955.3831557035	Sum of GTIs [s]
l2events	6707	Number of level 2 events



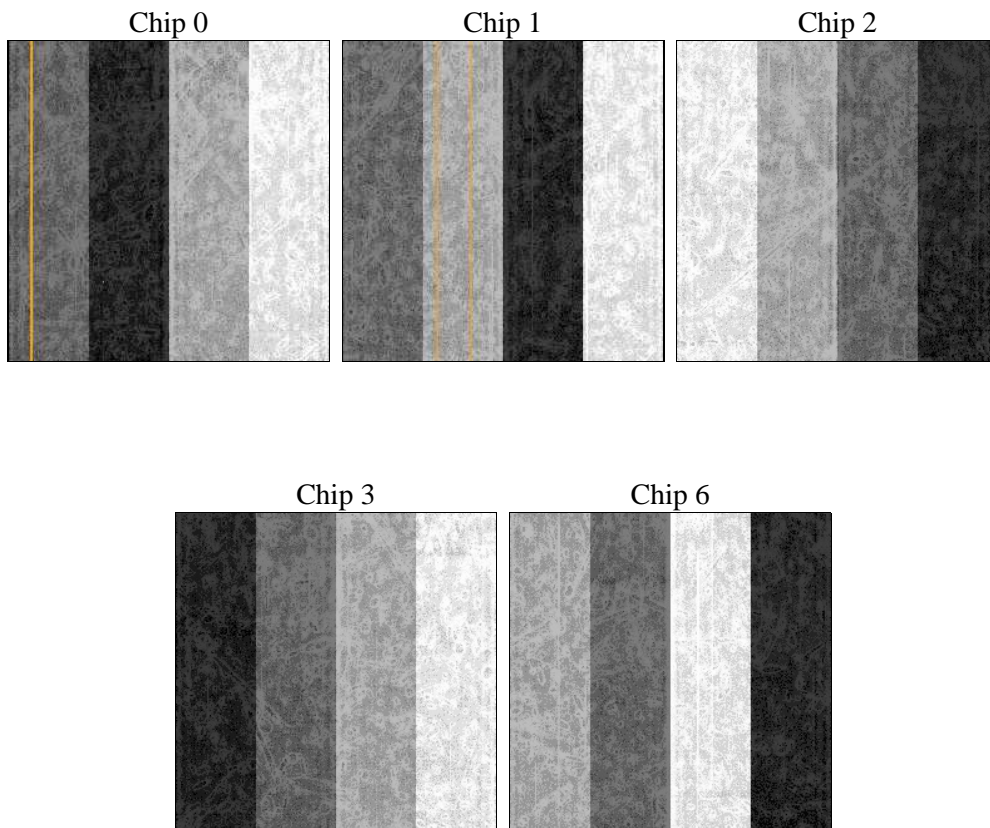
2 OBI

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	10.4.3.1	Processing system revision	ontime	1955.5473157167	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.4242060184	Sum of GTIs [s]
date	2016-05-22T07:38:05	Date and time of file creation	ontime1	1955.4652357101	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.506286025	Sum of GTIs [s]
			ontime3	1955.5473157167	Sum of GTIs [s]
			ontime6	1955.3831557035	Sum of GTIs [s]
			l1events	61313	Number of level 1 events

2.1.4 Events

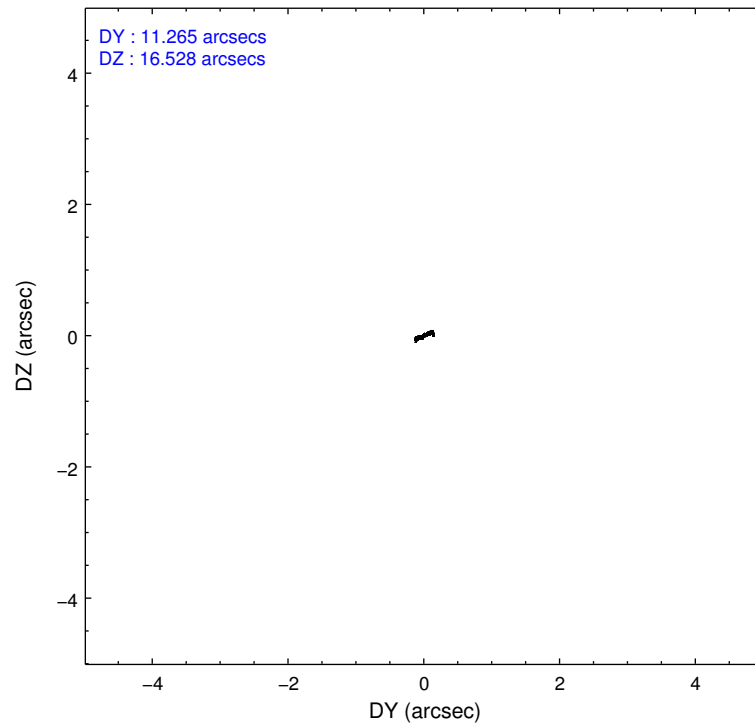
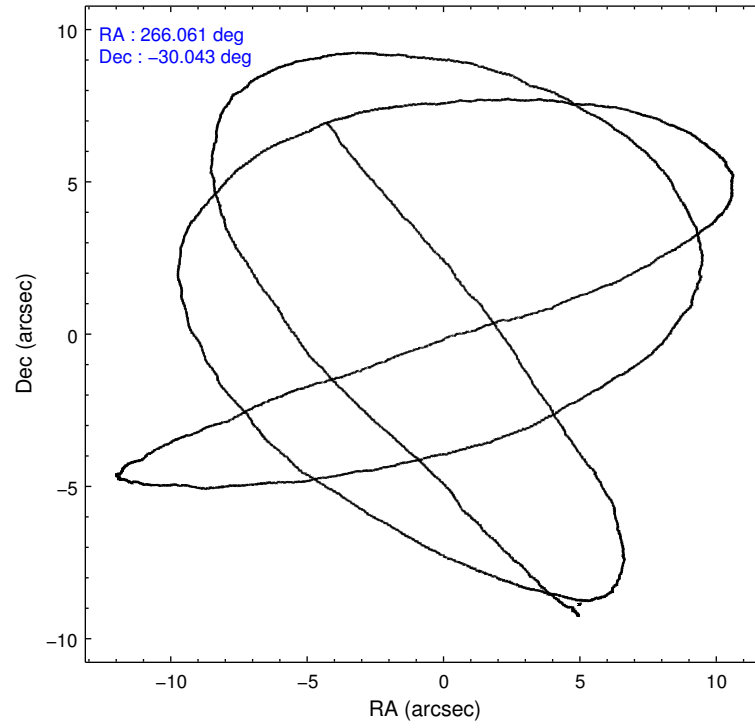
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11424	13011	12170	12604	12104
rejected events	9827	11159	10723	11095	10434
rejected %	86%	85%	88%	88%	86%

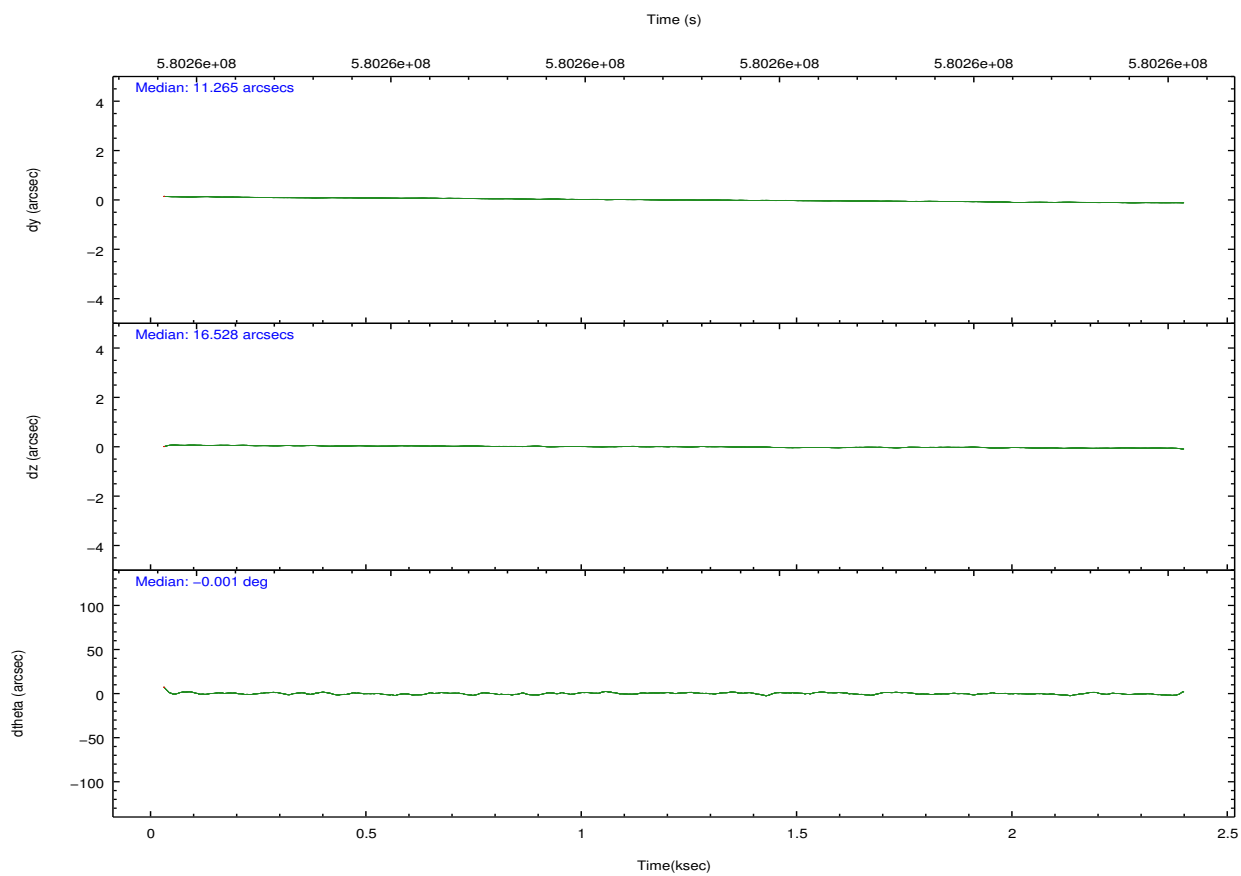
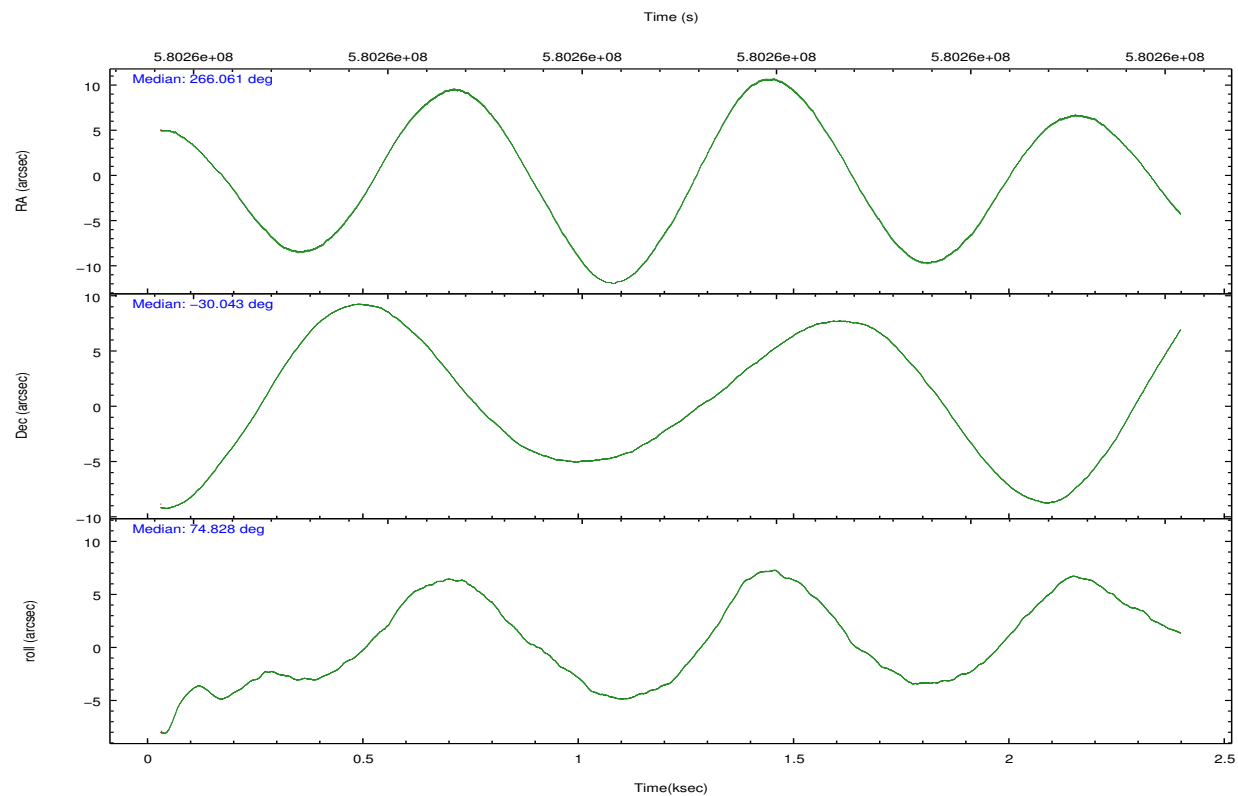
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	640	829	588	590	599
	5%	6%	4%	4%	4%
grade 1 events	7	6	8	7	5
	0%	0%	0%	0%	0%
grade 2 events	355	390	345	316	410
	3%	2%	2%	2%	3%
grade 3 events	161	128	129	161	149
	1%	0%	1%	1%	1%
grade 4 events	135	147	147	162	147
	1%	1%	1%	1%	1%
grade 5 events	528	551	457	577	526
	4%	4%	3%	4%	4%
grade 6 events	309	360	241	283	366
	2%	2%	1%	2%	3%
grade 7 events	9289	10600	10255	10508	9902
	81%	81%	84%	83%	81%

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	266.069457	266.0611642864174	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.069019	-30.04250241005438	CCD I3 on	Y	Y
[deg] Pointing Roll	74.626183	74.83071775658868	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)	580260763.184000	580260387.09966	CCD S5 on	N	N
Observation start date	2016-05-21T23:31:35	2016-05-21T23:26:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580262943.184000	580263076.69981	On-chip summing requested	N	N
Observation end date	2016-05-22T00:07:55	2016-05-22T00:11:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



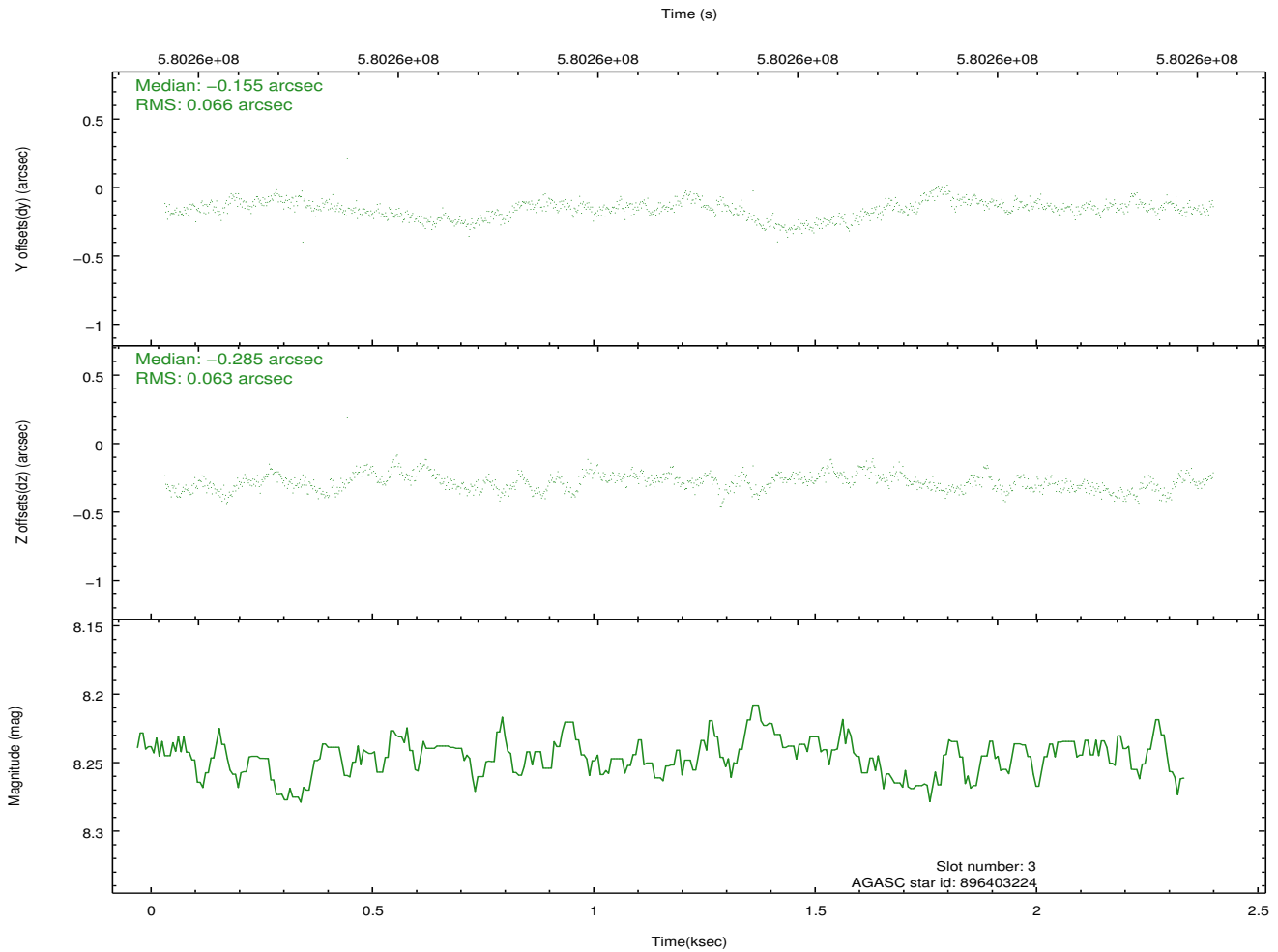
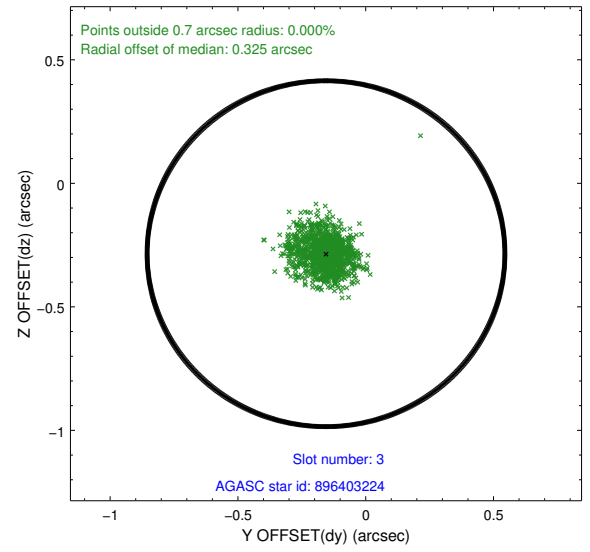
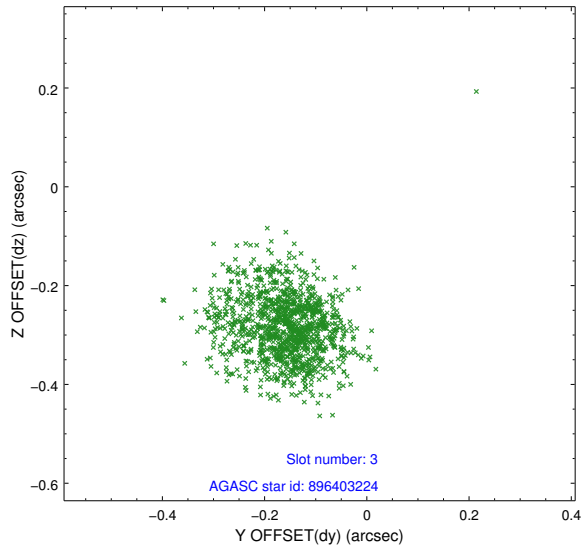


Slot Statistics

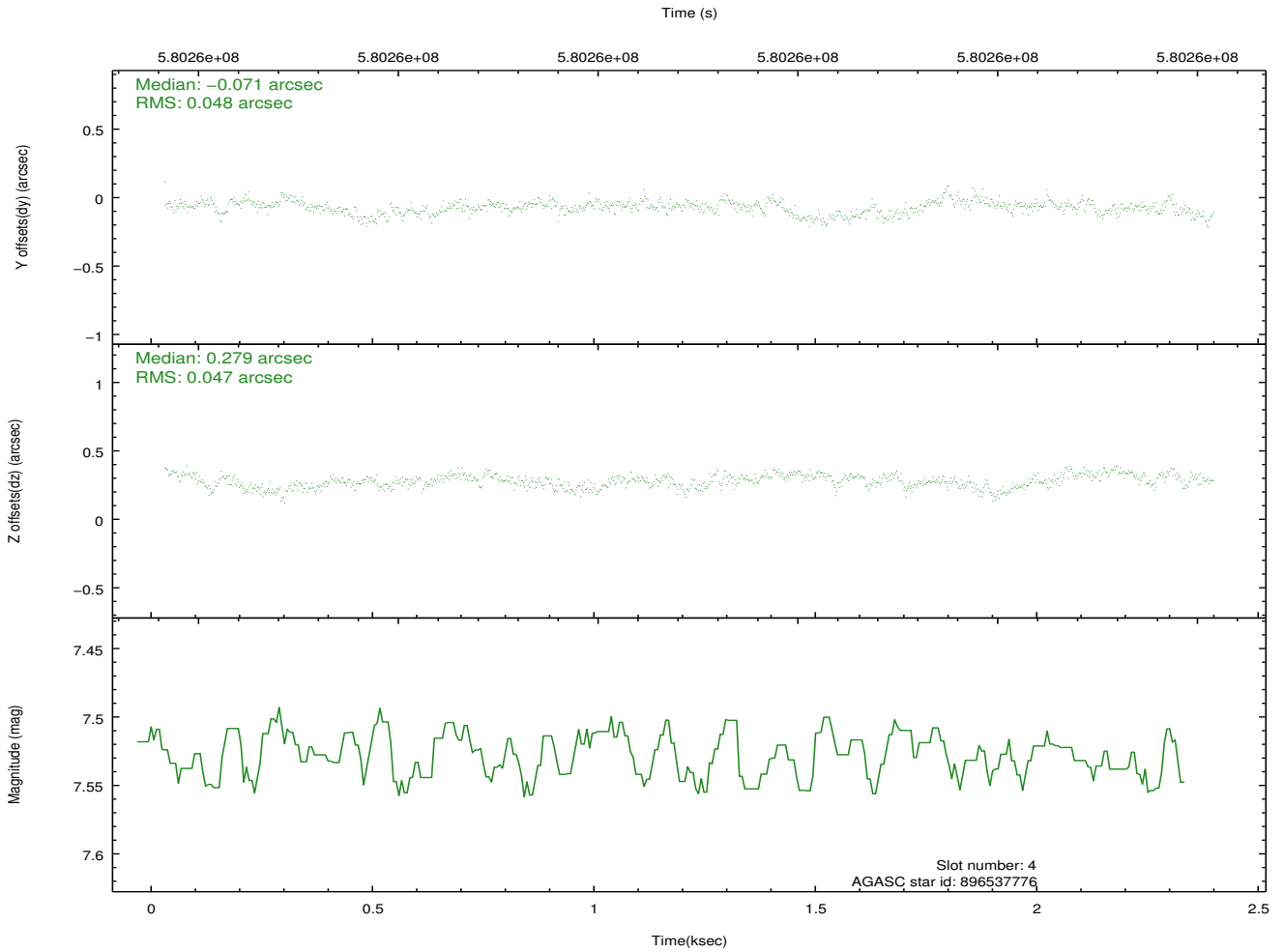
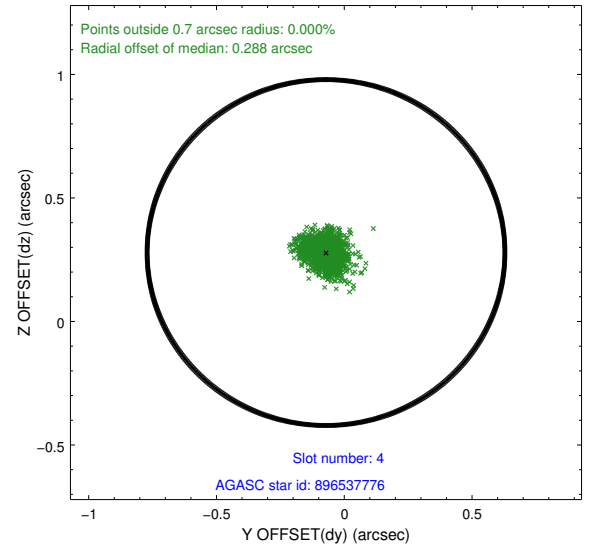
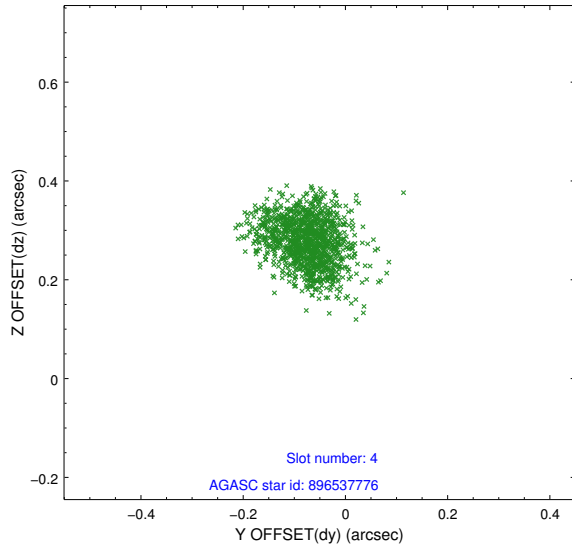
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	578	0.013	-0.038	0.009	0.016	0.000000	0.000000	928.30	-840.22
1	FID		ACIS-I-2	7.16	578	-0.335	-0.123	0.006	0.011	0.000000	0.000000	-764.62	-848.10
2	FID		ACIS-I-4	7.18	578	0.224	0.228	0.006	0.010	0.000000	0.000000	2147.17	1058.45
3	GUIDE	used	896403224	8.25	1156	-0.155	-0.285	0.096	0.155	265.612825	-29.438915	1804.81	1980.97
4	GUIDE	used	896537776	7.53	1156	-0.071	0.279	0.072	0.114	266.655684	-29.665673	1883.70	-1382.13
5	GUIDE	used	966790944	8.77	1156	-0.100	-0.235	0.113	0.196	265.185568	-30.443091	-2034.28	2284.18
6	GUIDE	used	966920024	8.79	1155	0.422	0.213	0.113	0.193	265.515080	-30.492187	-1929.88	1255.69
7	GUIDE	used	966924920	8.06	1155	-0.087	0.016	0.098	0.159	265.875401	-30.176961	-536.67	480.56

2.4 Star Slots

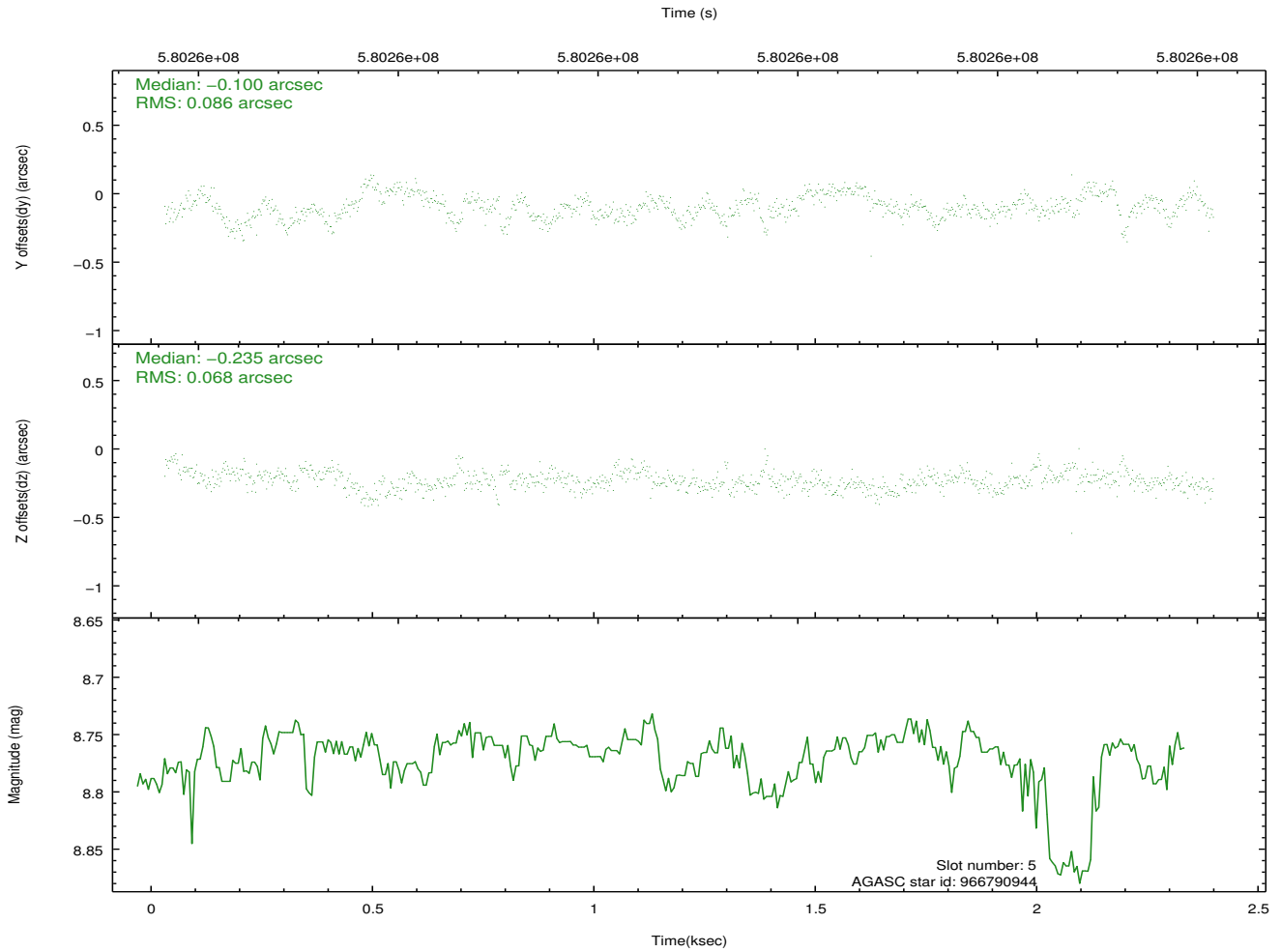
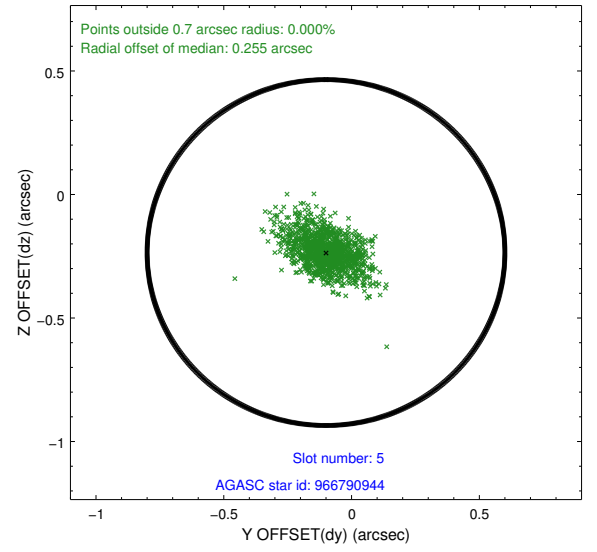
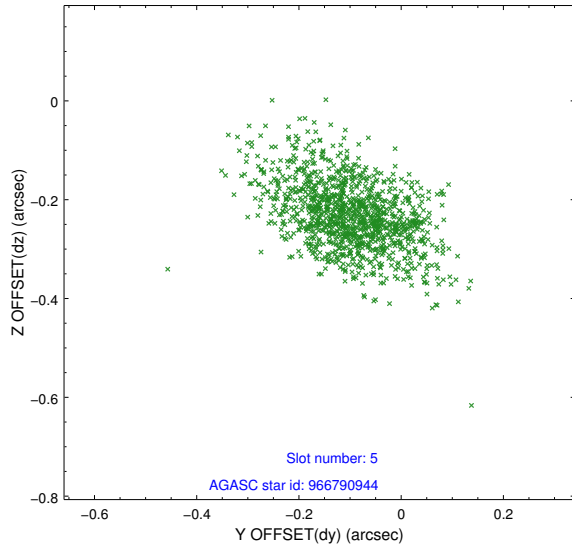
2.4.1 Slot 3



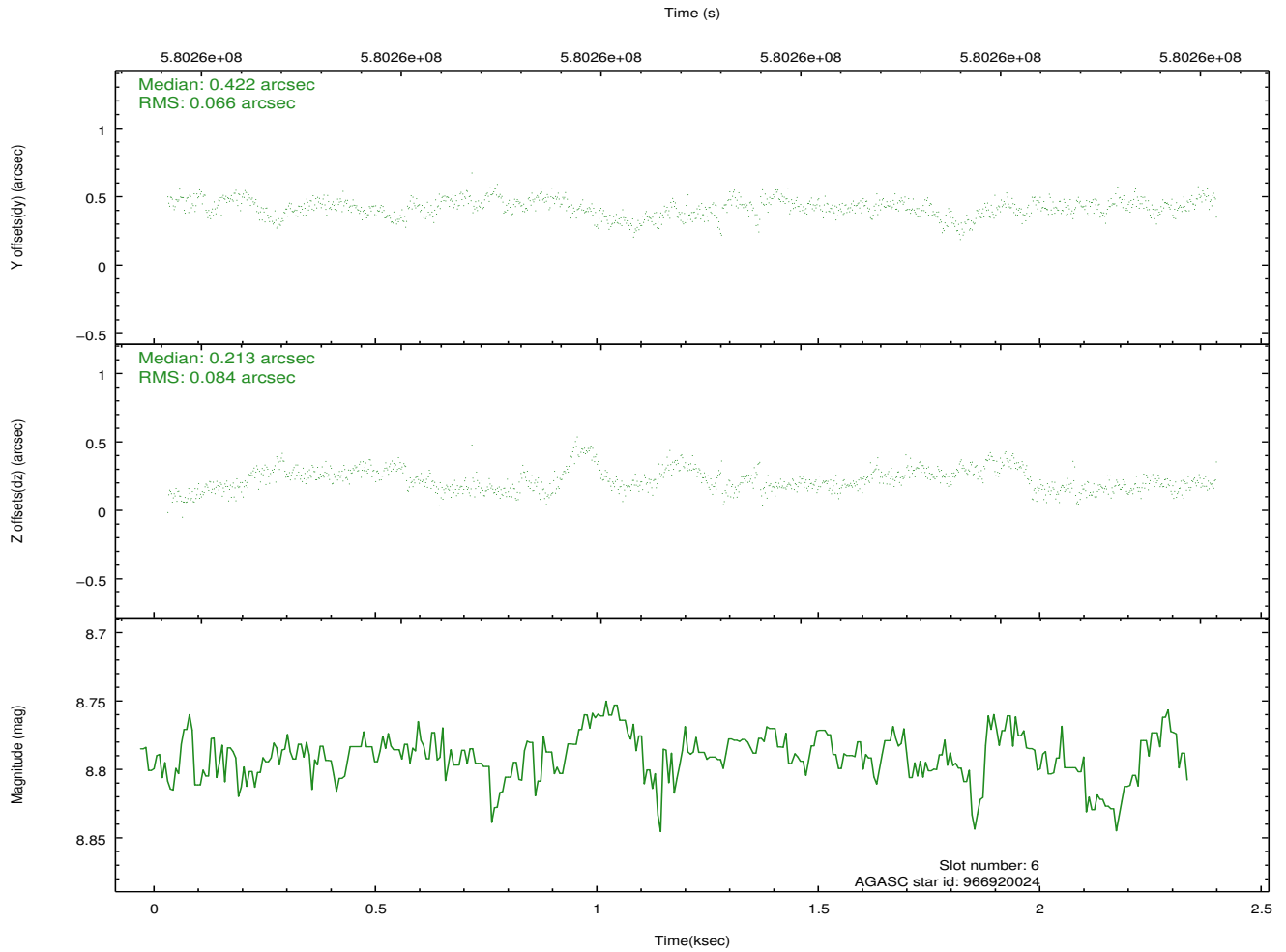
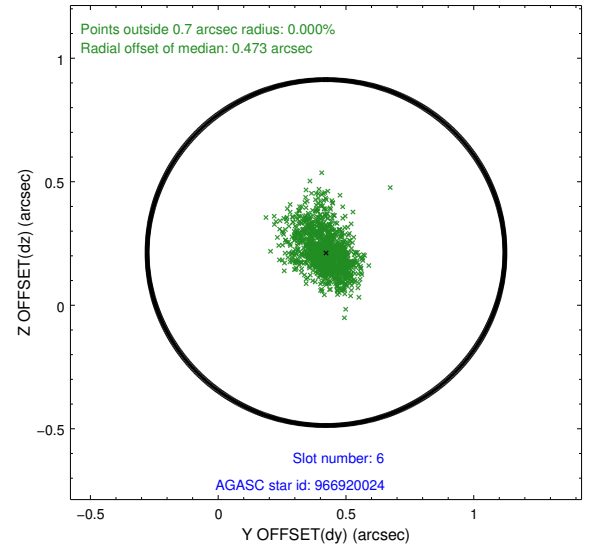
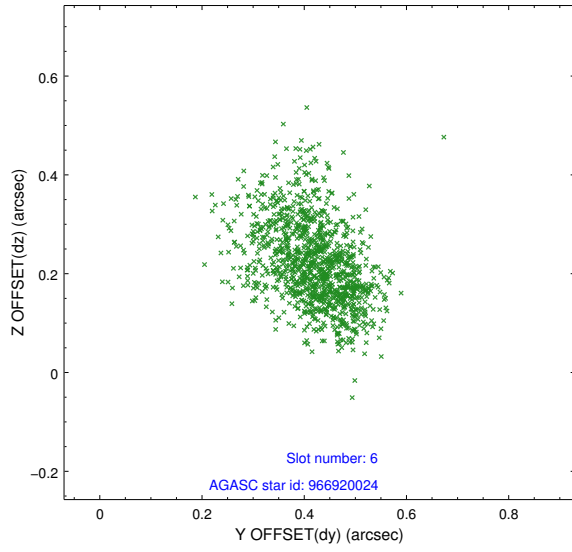
2.4.2 Slot 4



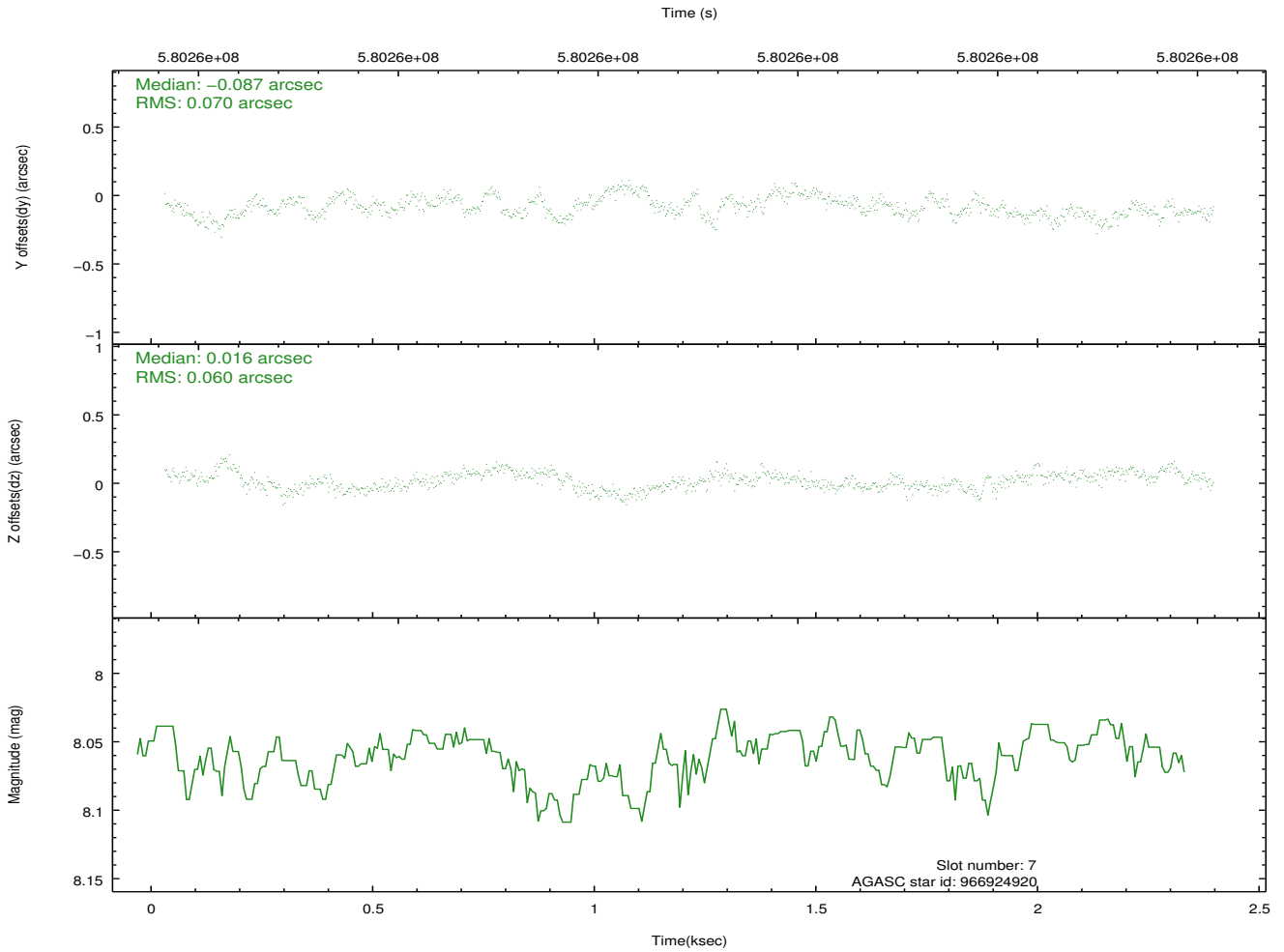
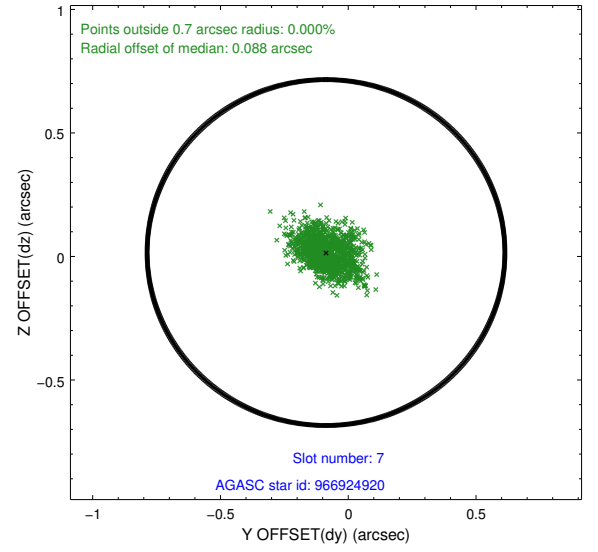
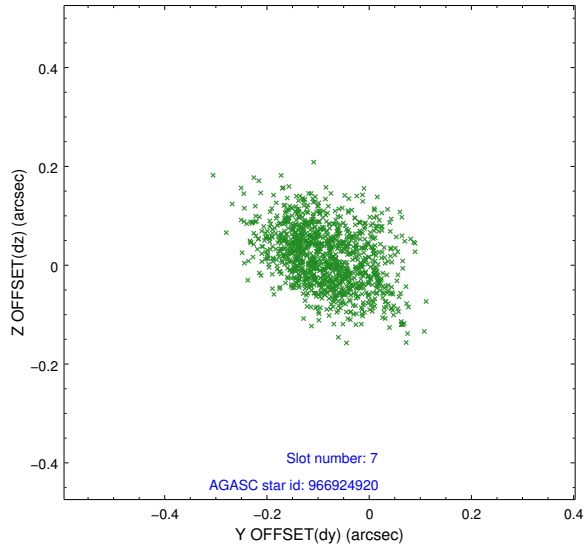
2.4.3 Slot 5



2.4.4 Slot 6

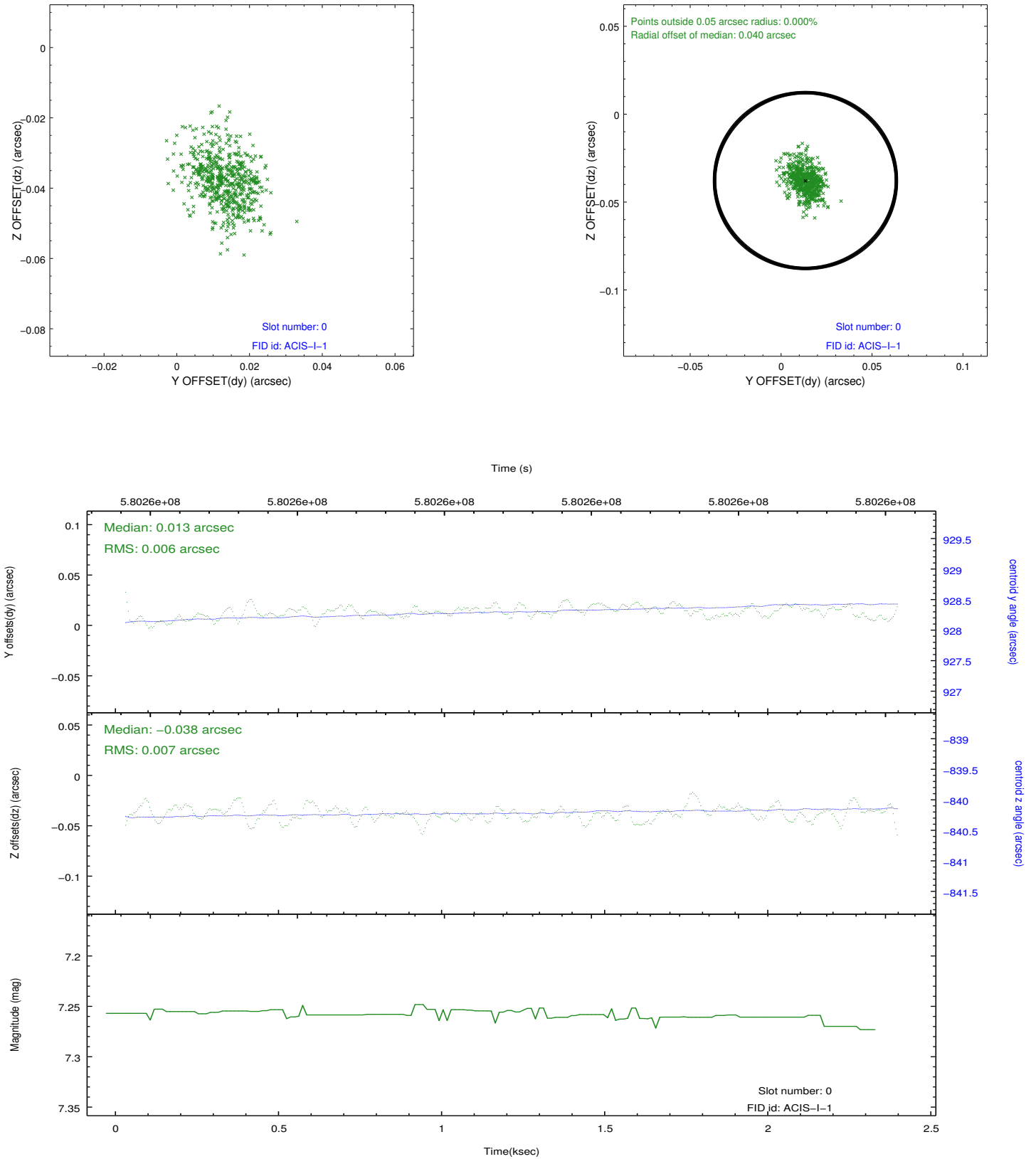


2.4.5 Slot 7

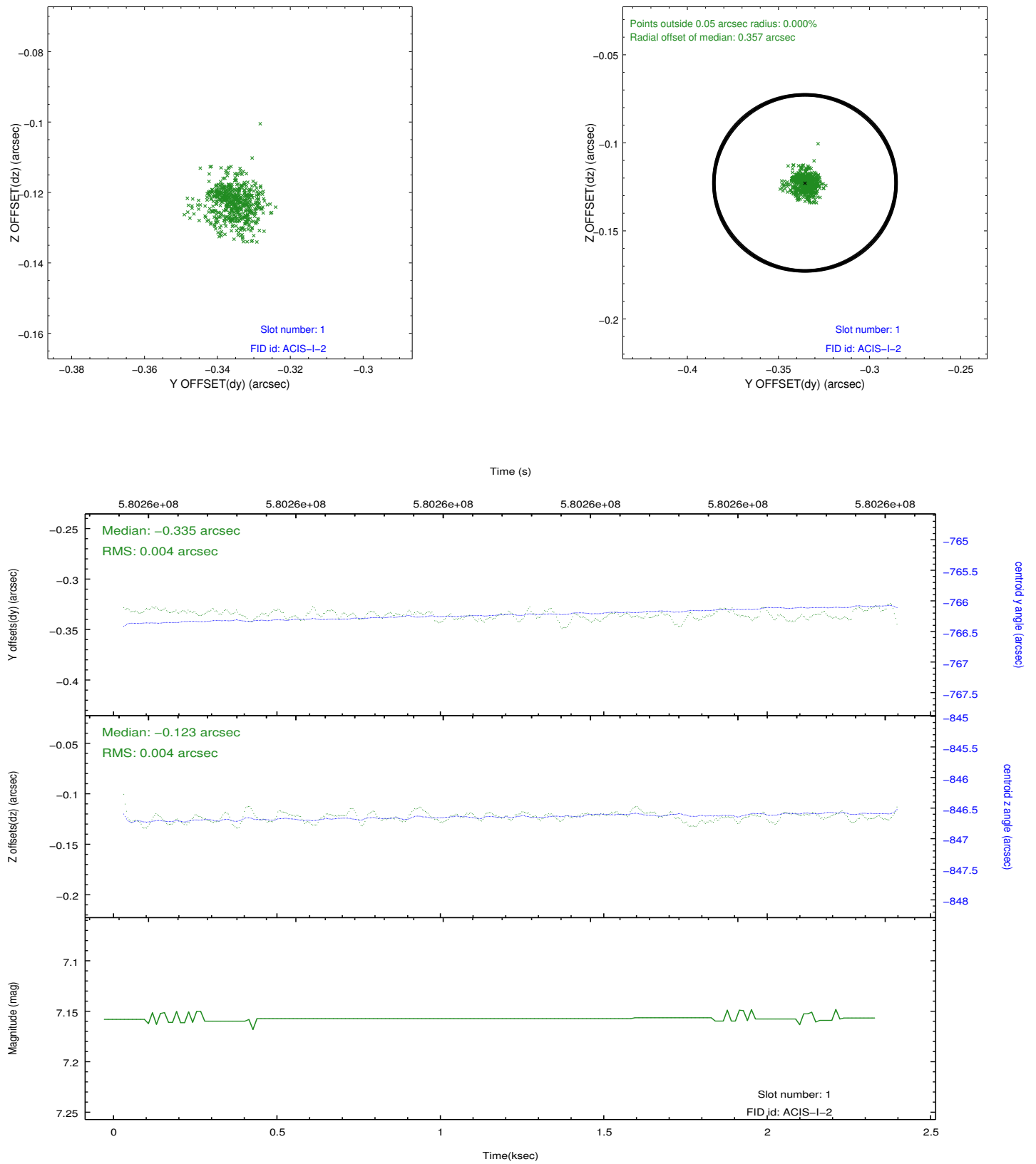


2.5 FID Slots

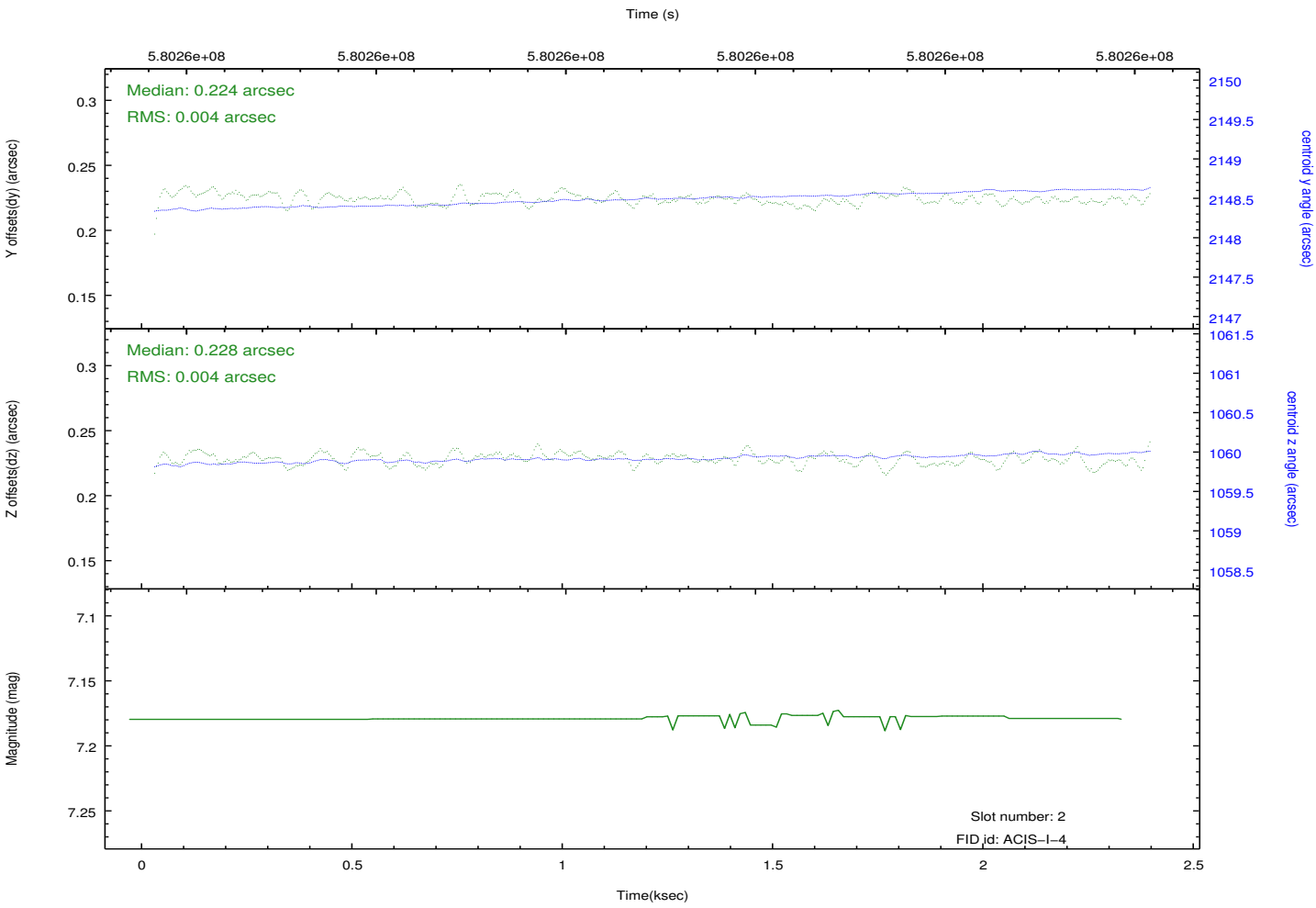
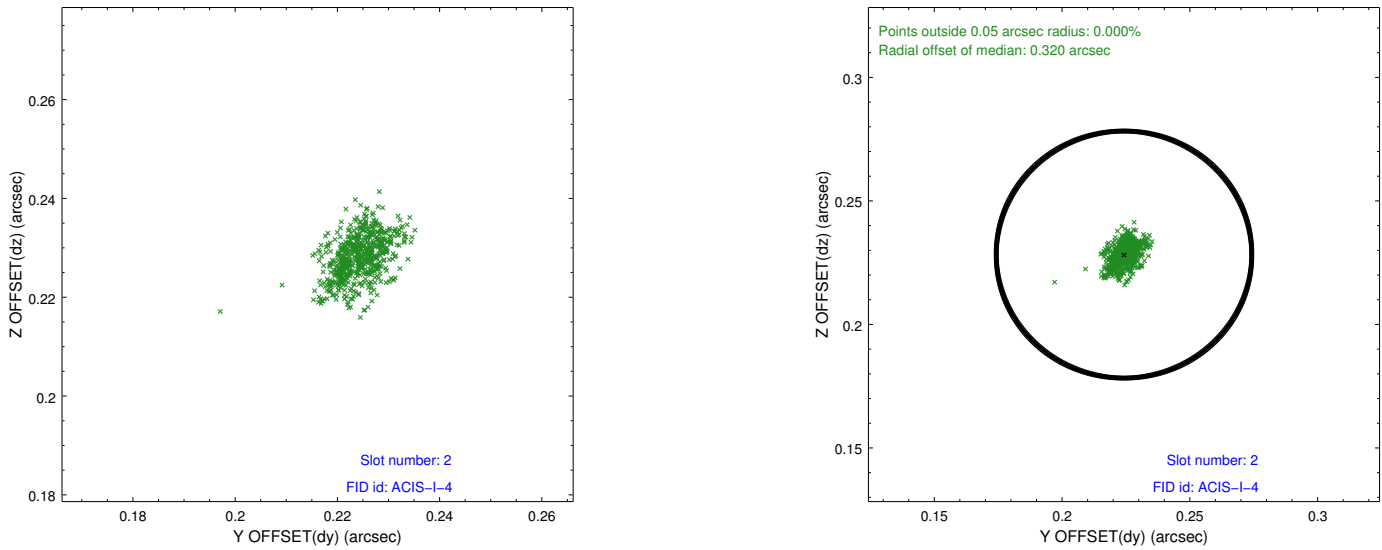
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9555473157167

A.2 Comments