

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18649 - L2 Version 1
Chandra X-Ray Center

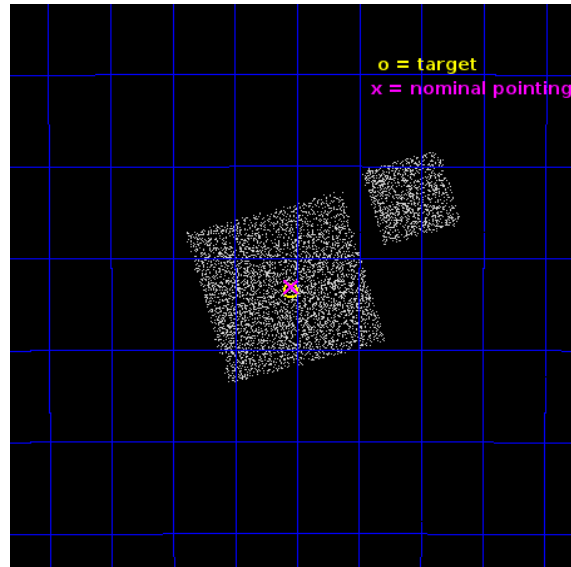
L2 Processing Date : May 22 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

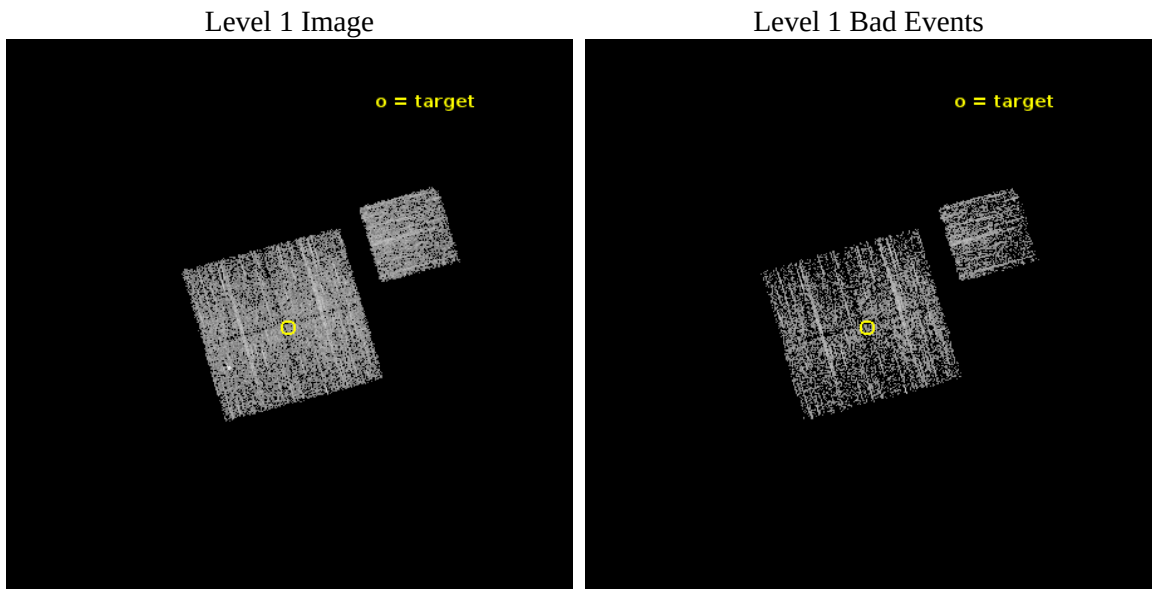
seq_num	300373	Sequence number
obs_id	18649	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.38728	Observer's specified target RA [deg]
dec_targ	-30.05925	Observer's specified target Dec [deg]
ra_nom	265.38640349237	Nominal RA [deg]
dec_nom	-30.052096588182	Nominal Dec [deg]
roll_nom	74.099622002257	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.4539341927	Sum of GTIs [s]
livetime	1929.9044889582	Livetime [s]
ontime0	1955.3308142424	Sum of GTIs [s]
ontime1	1955.3718541861	Sum of GTIs [s]
ontime2	1955.412894249	Sum of GTIs [s]
ontime3	1955.4539341927	Sum of GTIs [s]
ontime6	1955.2897741795	Sum of GTIs [s]
l2events	6610	Number of level 2 events



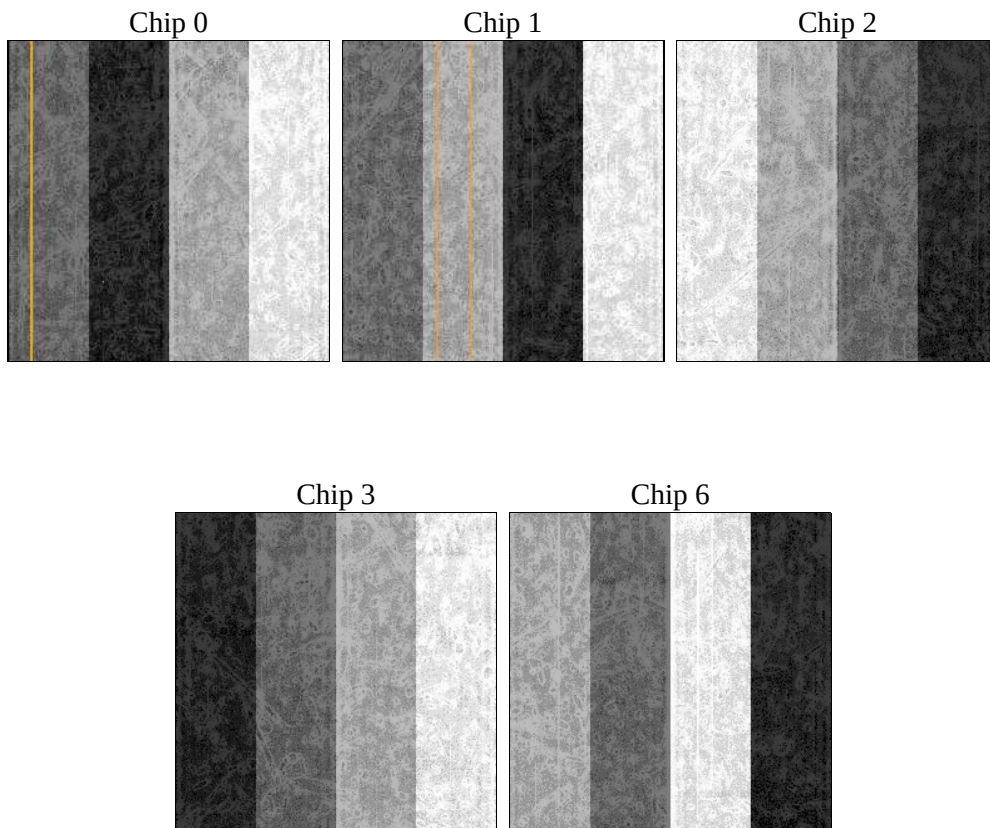
2 OBI

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	1955.4539341927	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.3308142424	Sum of GTIs [s]
date	2016-05-22T15:20:05	Date and time of file creation	ontime1	1955.3718541861	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.412894249	Sum of GTIs [s]
			ontime3	1955.4539341927	Sum of GTIs [s]
			ontime6	1955.2897741795	Sum of GTIs [s]
			l1events	60463	Number of level 1 events

2.1.4 Events

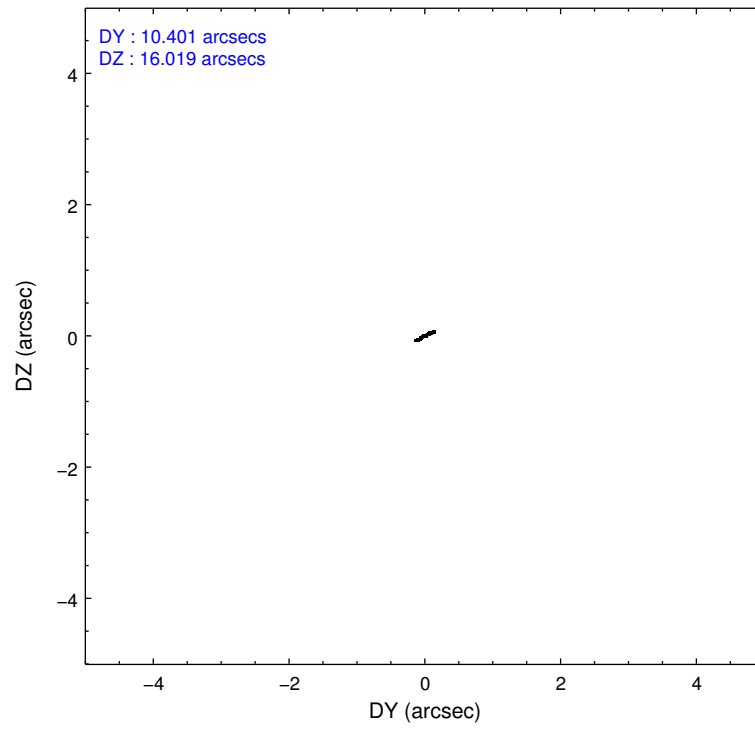
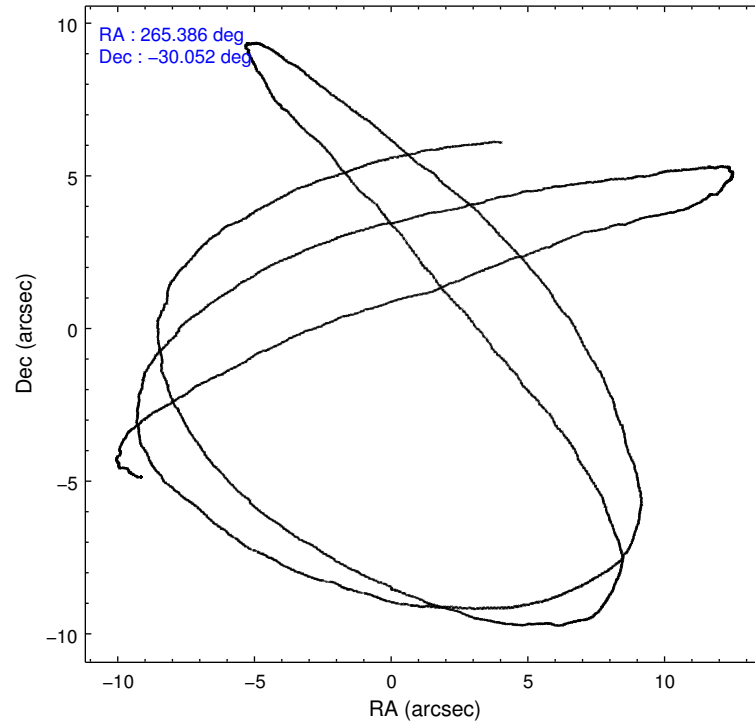
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	10885	11923	13072	12148	12435
rejected events	9296	9765	11648	10676	10899
rejected %	85%	81%	89%	87%	87%

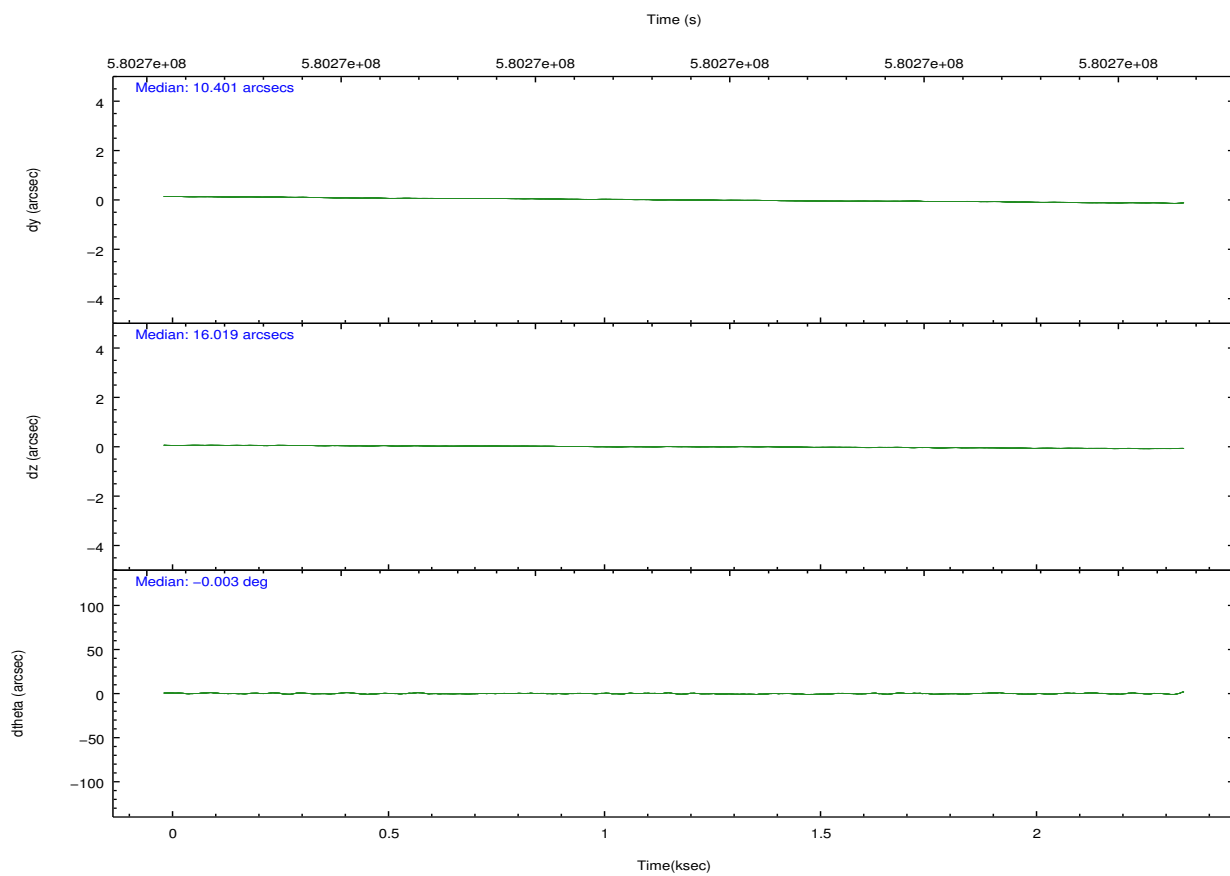
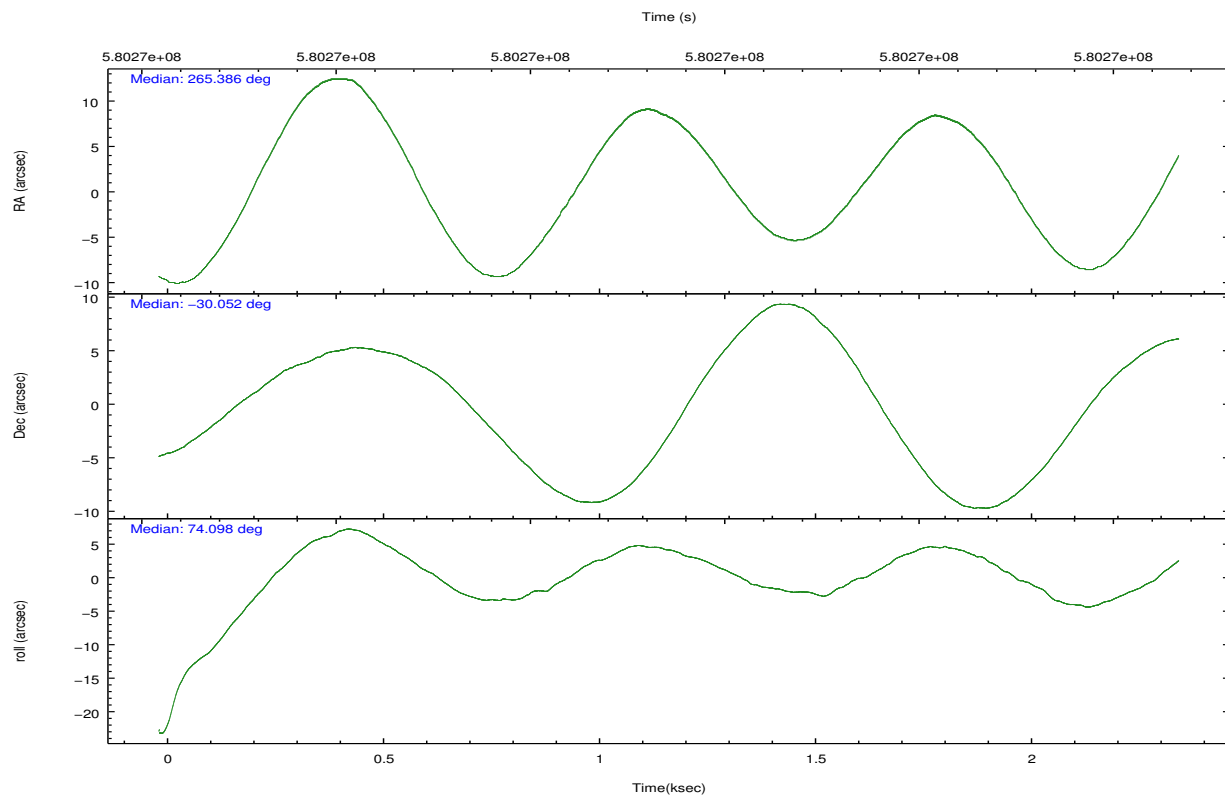
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	629	1094	583	560	533
	5%	9%	4%	4%	4%
grade 1 events	9	11	6	4	3
	0%	0%	0%	0%	0%
grade 2 events	384	400	299	318	355
	3%	3%	2%	2%	2%
grade 3 events	129	168	137	145	149
	1%	1%	1%	1%	1%
grade 4 events	132	149	158	160	139
	1%	1%	1%	1%	1%
grade 5 events	496	515	496	563	561
	4%	4%	3%	4%	4%
grade 6 events	320	350	252	290	362
	2%	2%	1%	2%	2%
grade 7 events	8786	9236	11141	10108	10333
	80%	77%	85%	83%	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	265.394513	265.3864034923674	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.078877	-30.0520965881817	CCD I3 on	Y	Y
[deg] Pointing Roll	73.894988	74.09962200225725	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)	580268833.184000	580268456.92512	CCD S5 on	N	N
Observation start date	2016-05-22T01:46:05	2016-05-22T01:40:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580271013.184000	580271147.03778	On-chip summing requested	N	N
Observation end date	2016-05-22T02:22:25	2016-05-22T02:25:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



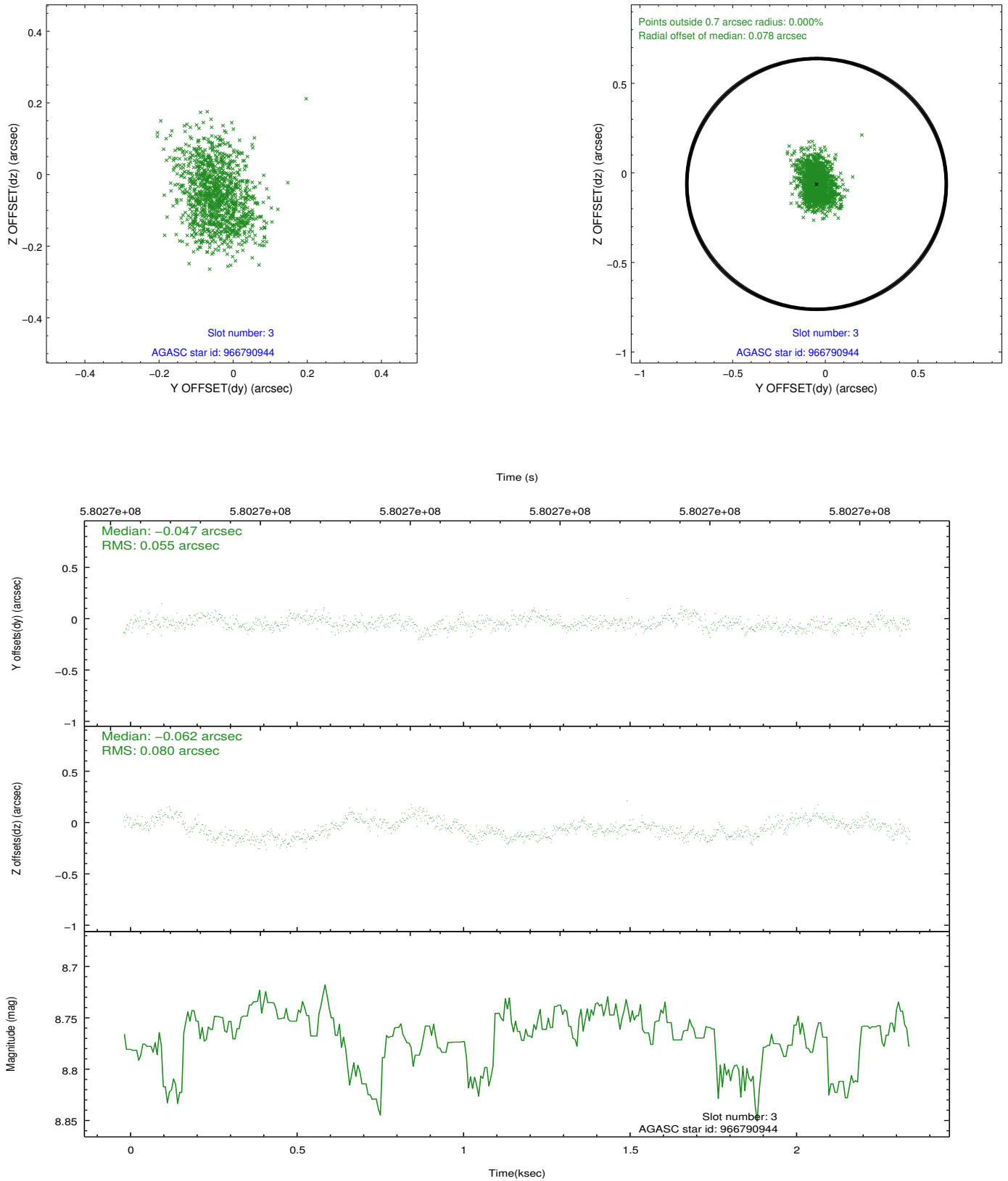


Slot Statistics

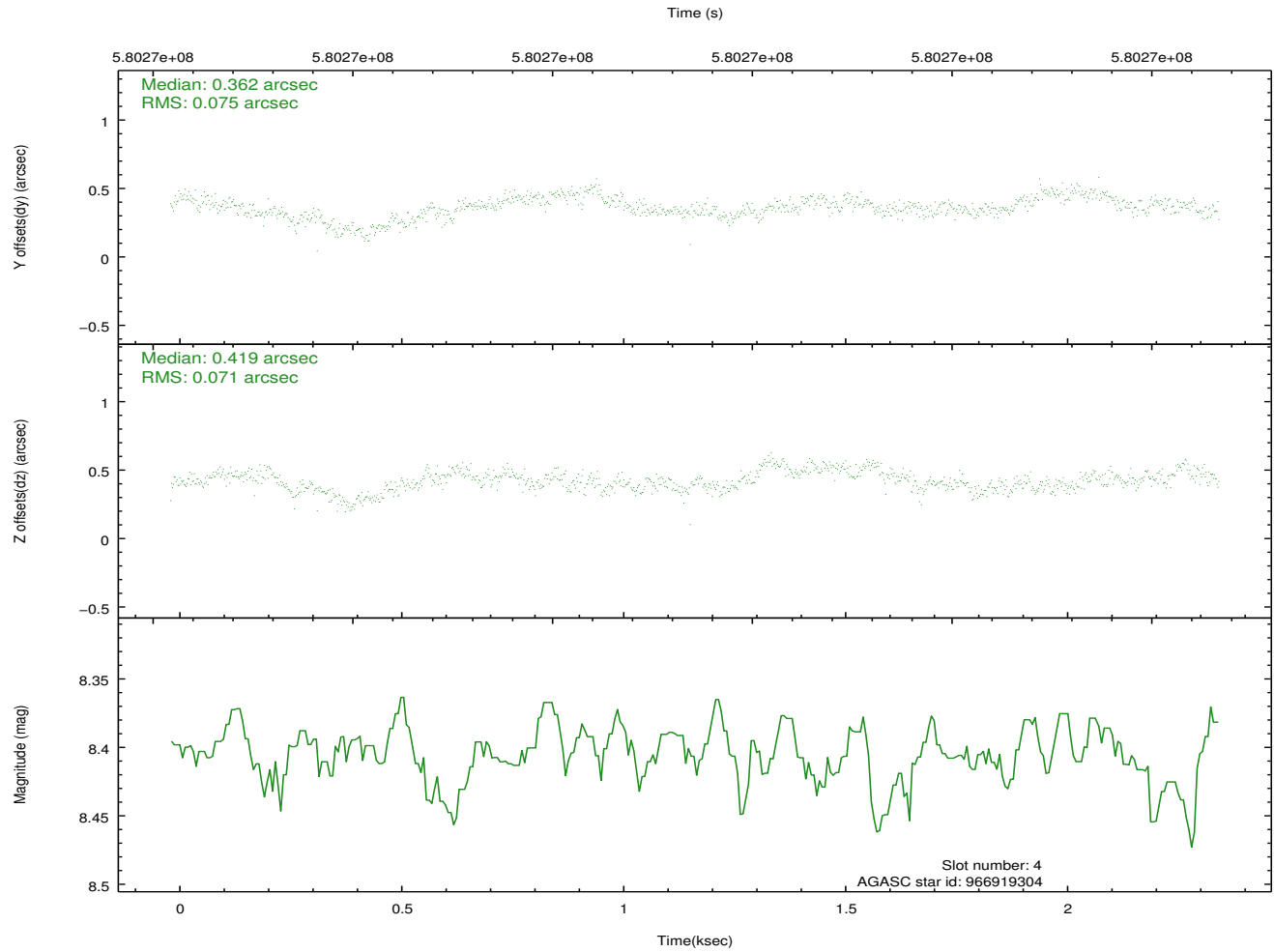
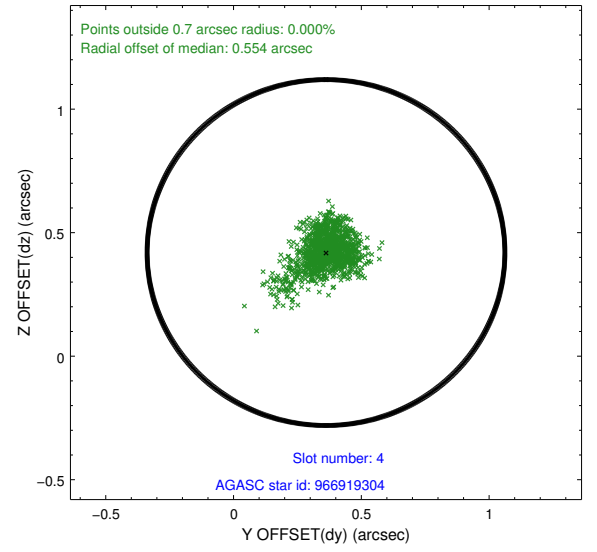
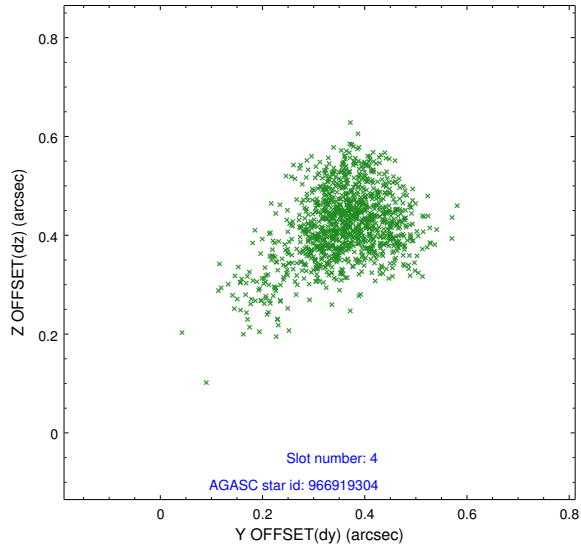
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	576	0.089	-0.104	0.006	0.011	0.000000	0.000000	929.28	-839.74
1	FID		ACIS-I-5	7.25	577	-0.300	0.052	0.006	0.011	0.000000	0.000000	-1817.72	1056.49
2	FID		ACIS-I-6	7.25	576	0.121	0.122	0.007	0.010	0.000000	0.000000	391.84	1704.21
3	GUIDE	used	966790944	8.77	1153	-0.047	-0.062	0.104	0.167	265.185568	-30.443091	-1439.93	258.38
4	GUIDE	used	966919304	8.41	1151	0.362	0.419	0.105	0.191	265.660763	-30.717261	-1980.91	-1429.63
5	GUIDE	used	966920024	8.82	1153	0.496	0.502	0.119	0.186	265.515080	-30.492187	-1326.87	-773.62
6	GUIDE	used	896404376	6.69	1153	-0.811	-0.402	0.248	0.414	264.835179	-29.530972	1403.32	2227.52
7	GUIDE	used	896405480	8.23	1152	-0.021	-0.436	0.098	0.154	265.220460	-29.599691	1507.33	1002.71

2.4 Star Slots

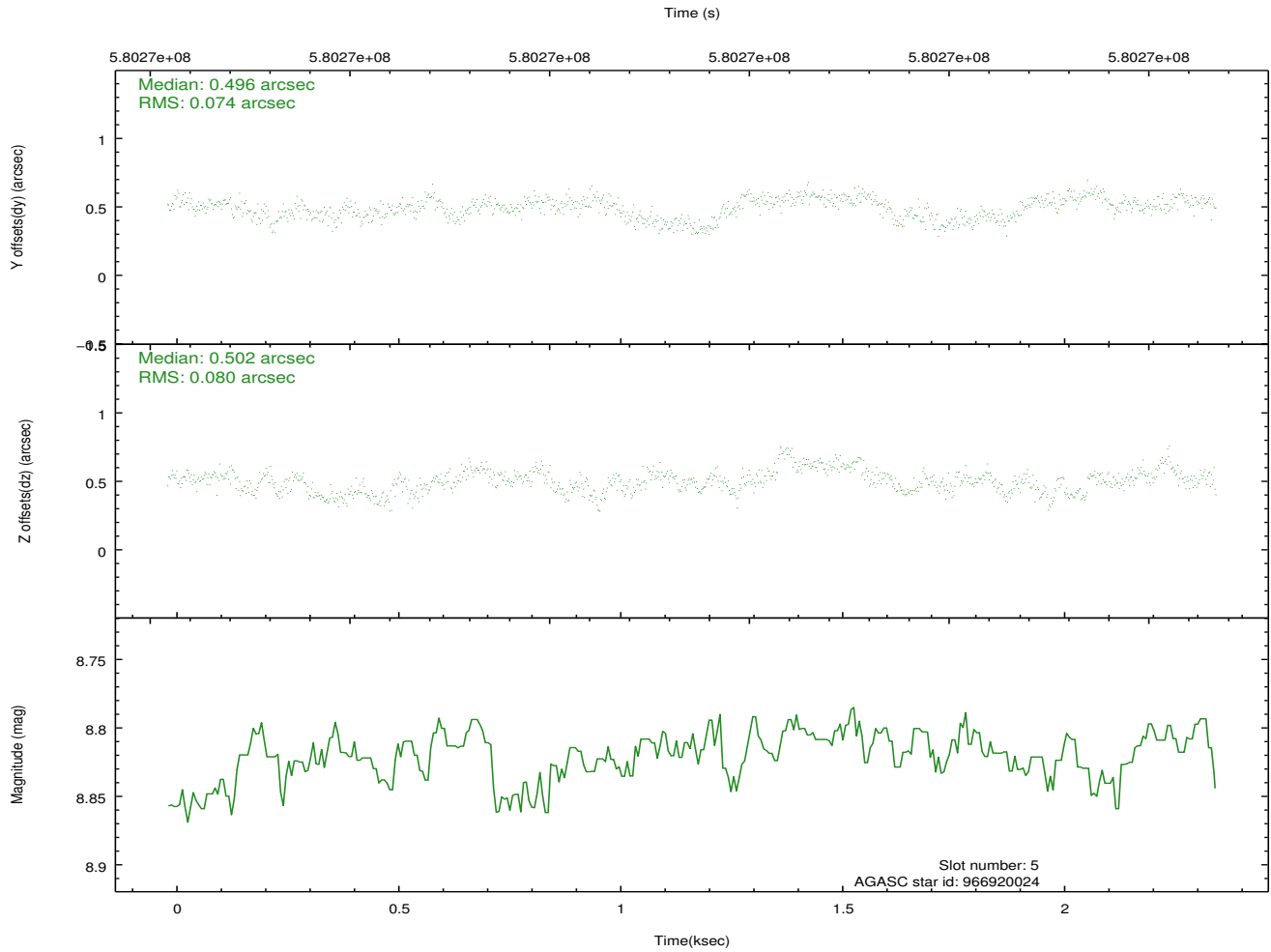
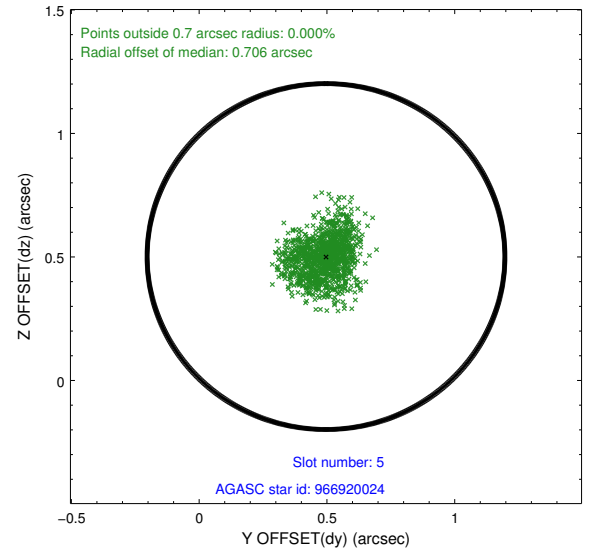
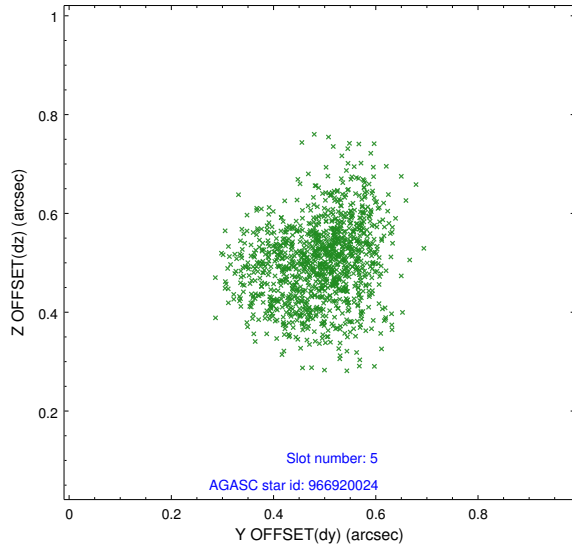
2.4.1 Slot 3



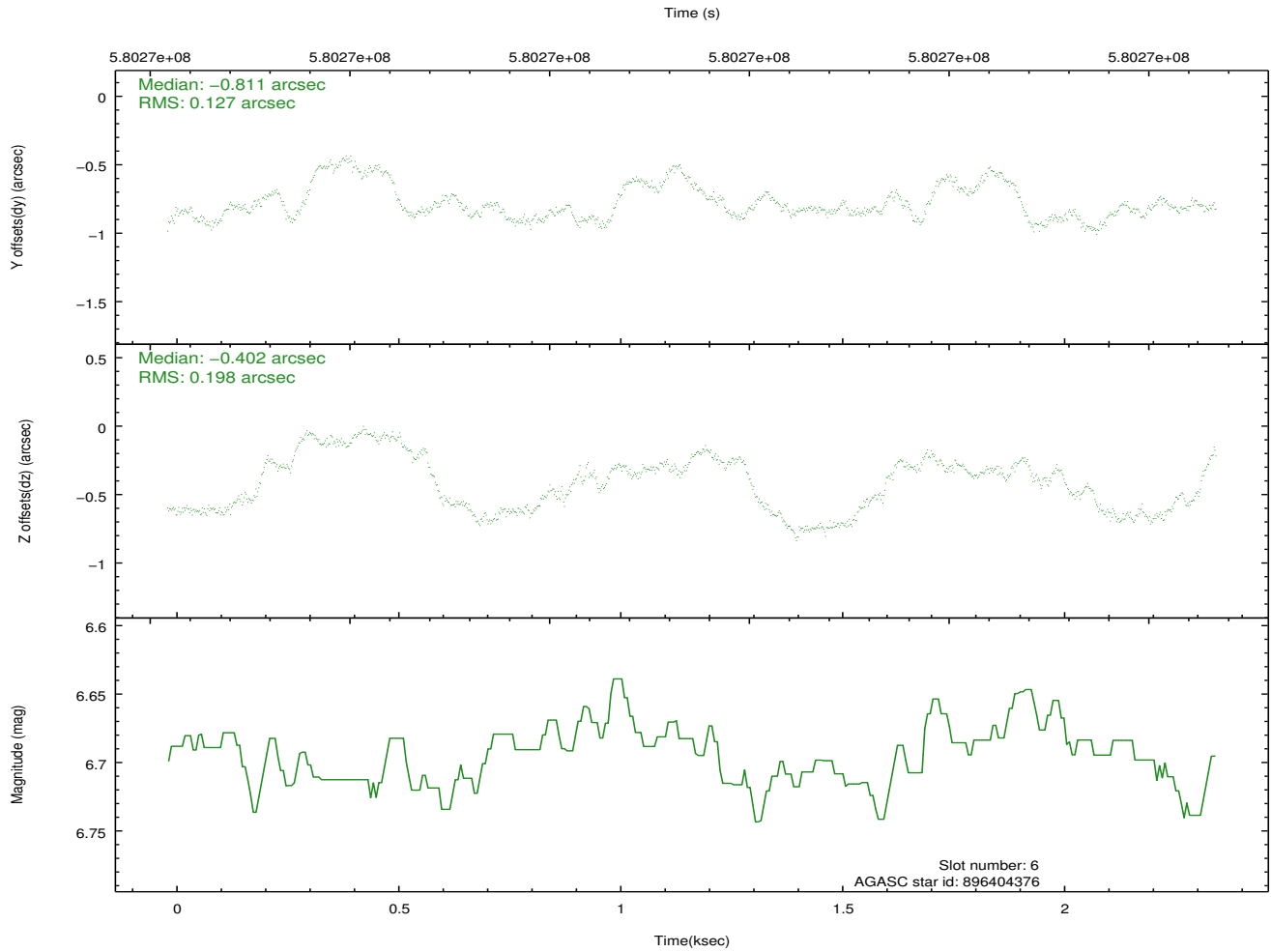
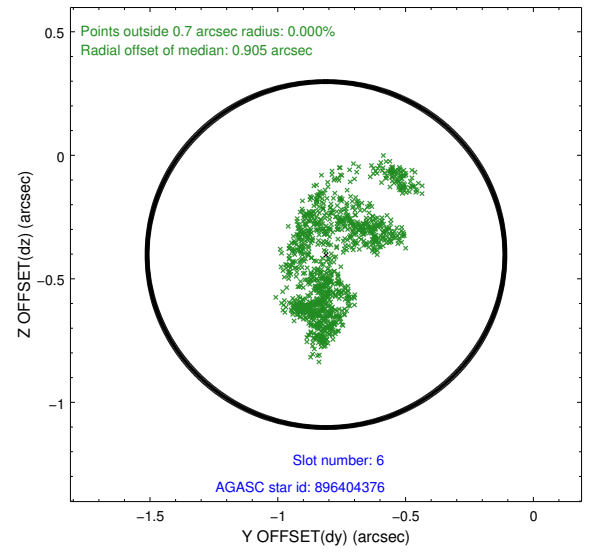
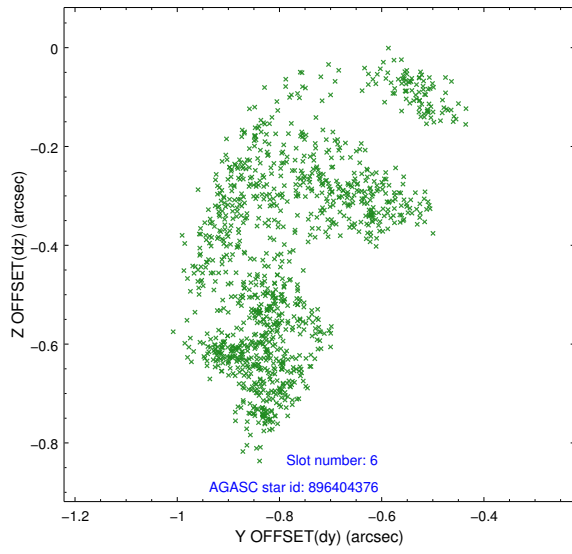
2.4.2 Slot 4



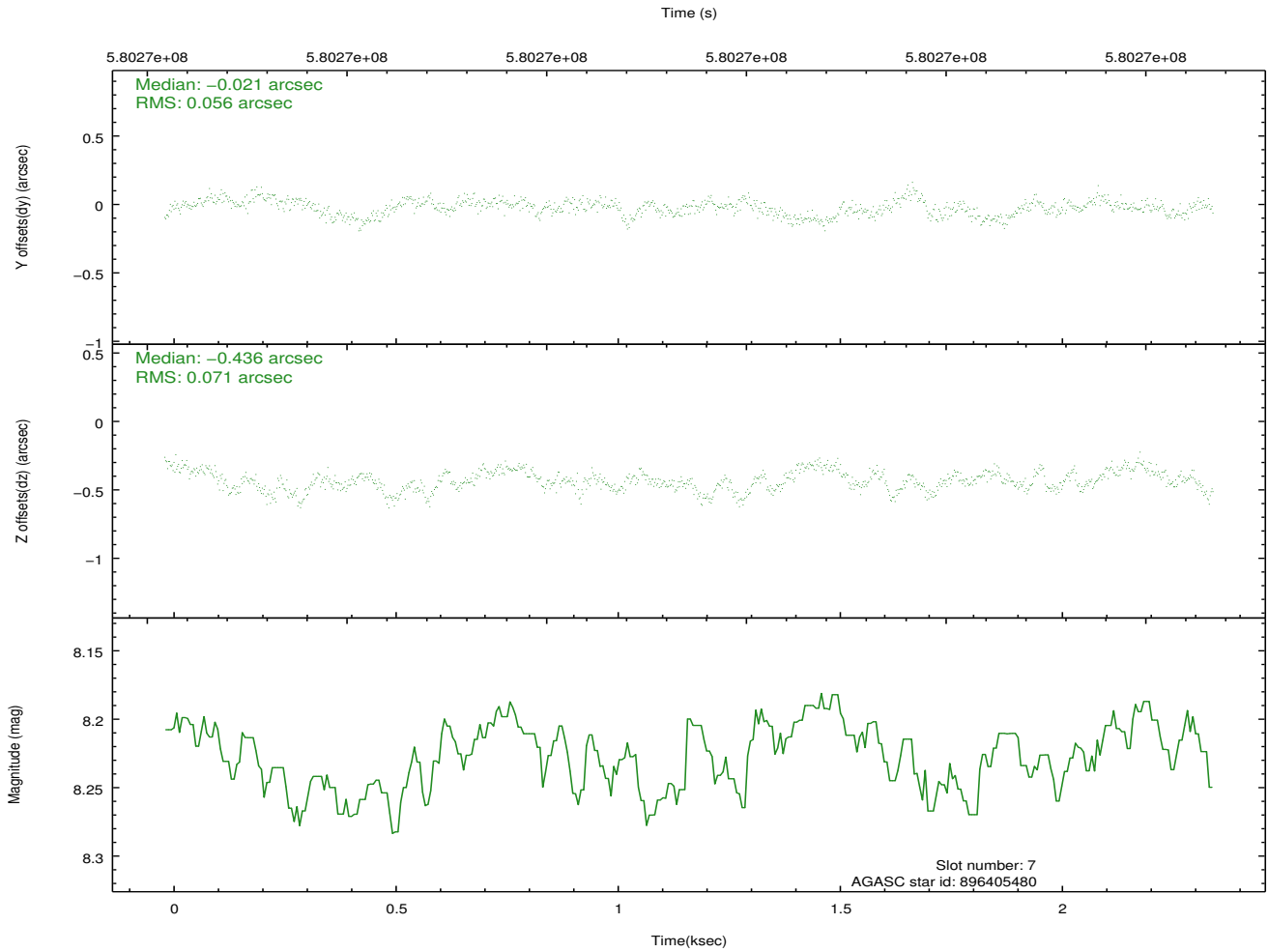
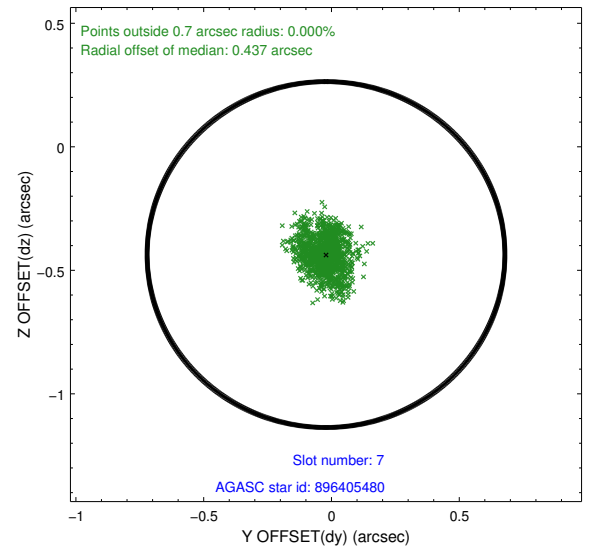
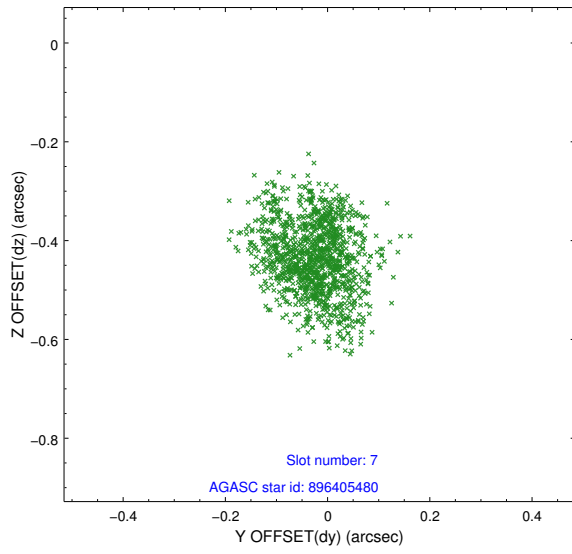
2.4.3 Slot 5



2.4.4 Slot 6

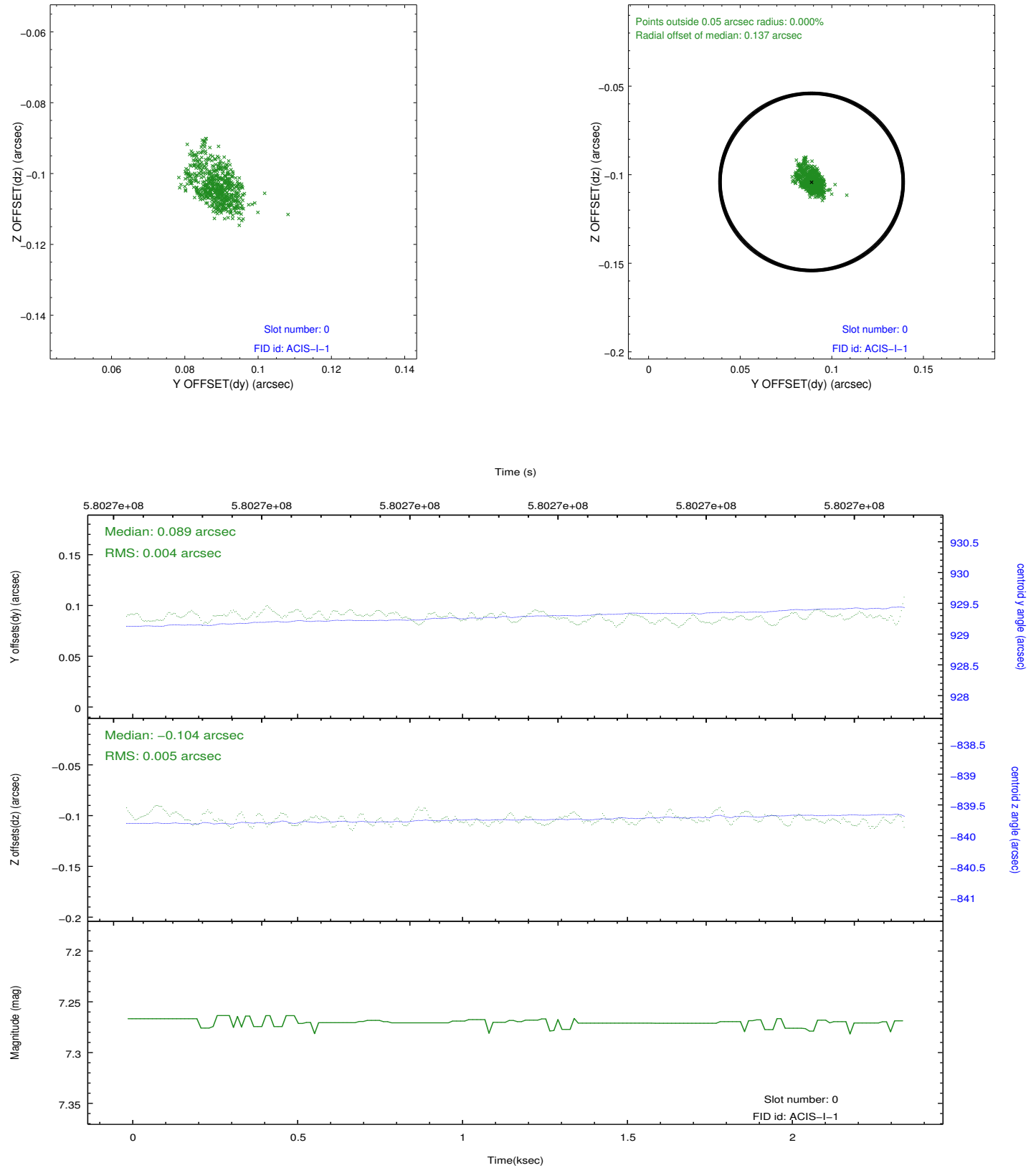


2.4.5 Slot 7

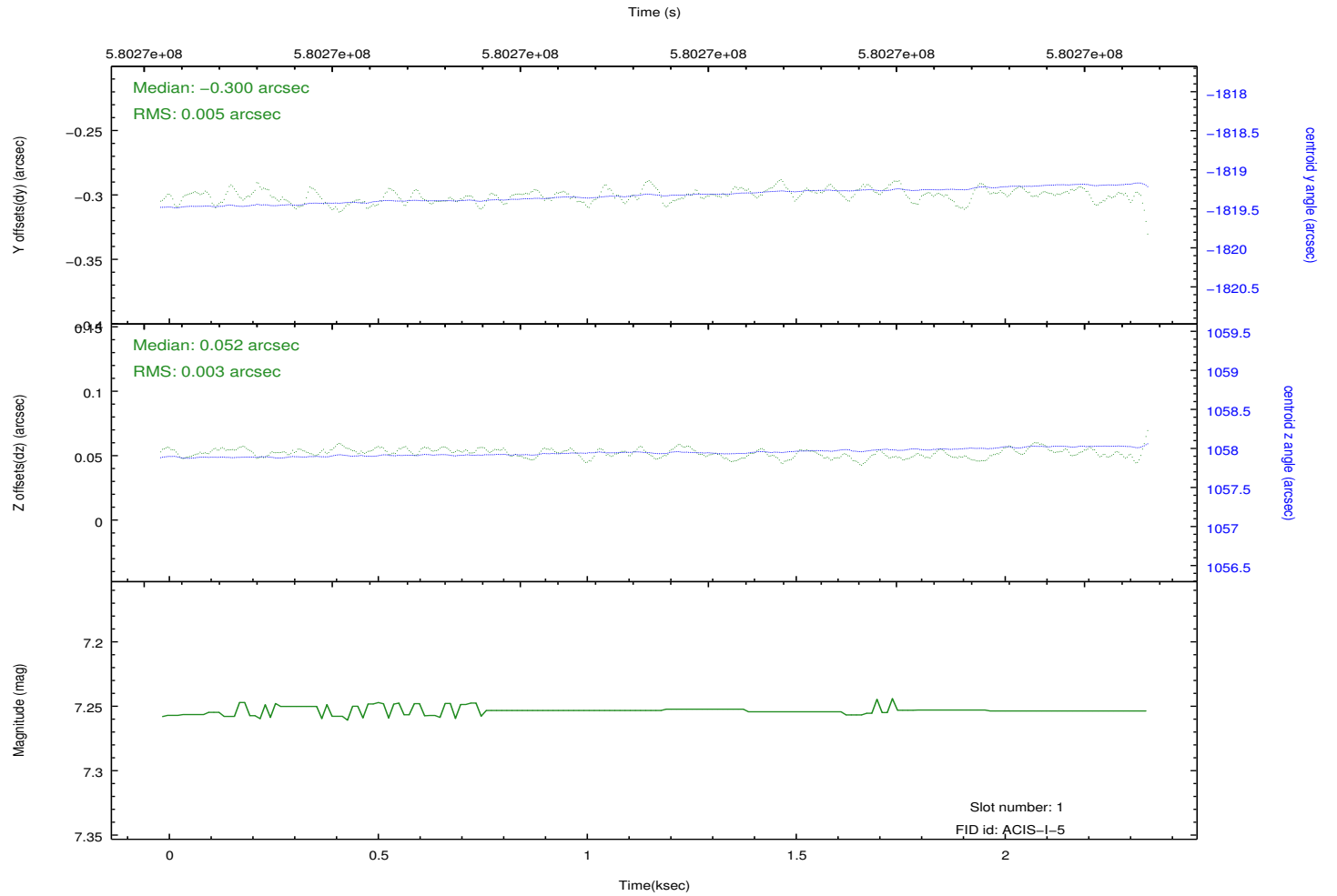
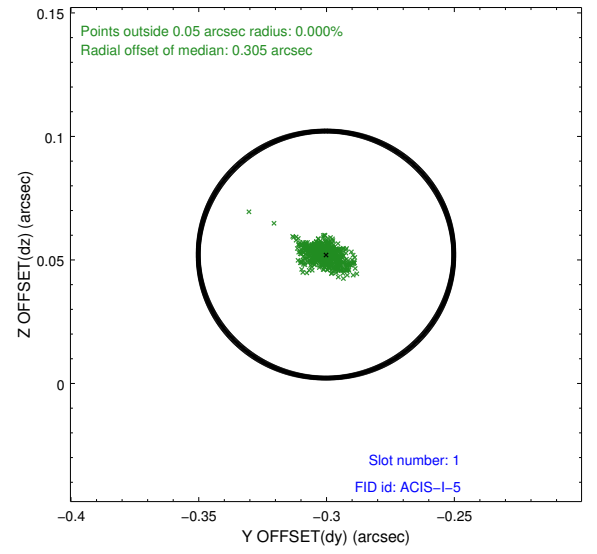
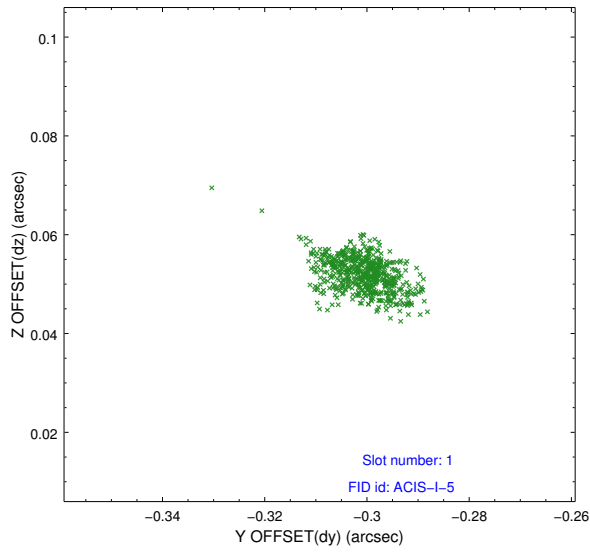


2.5 FID Slots

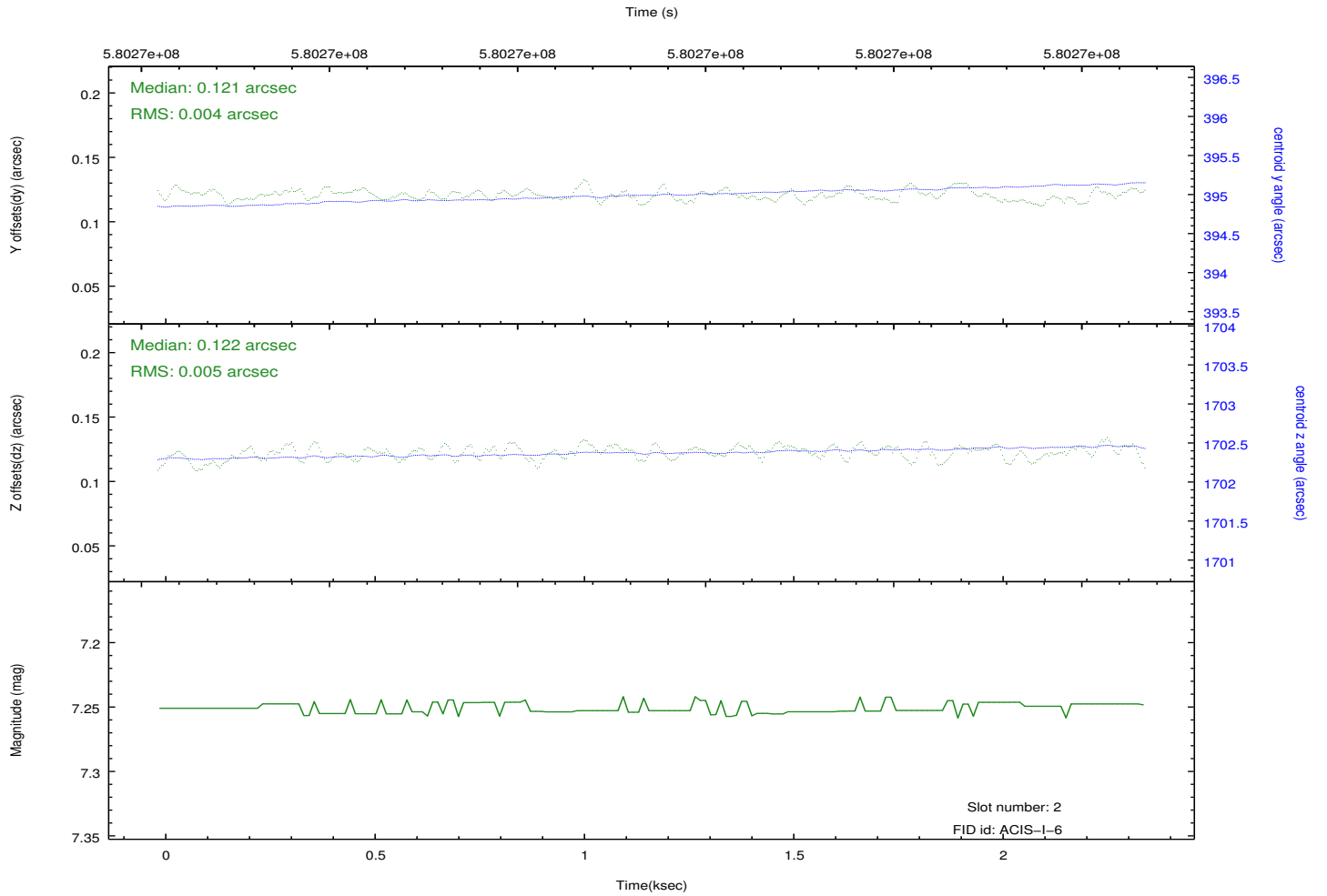
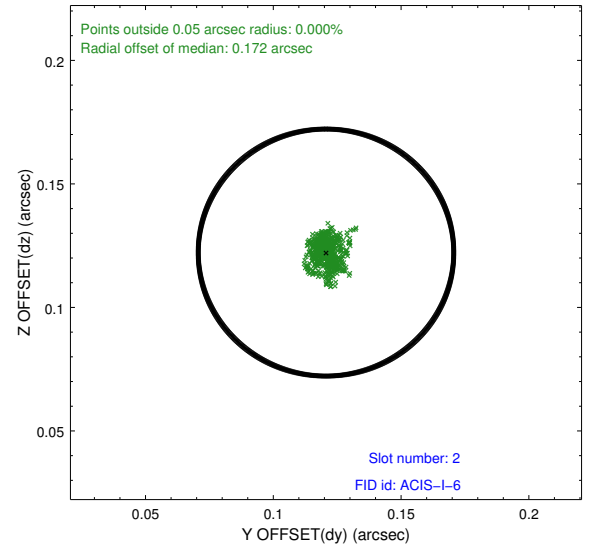
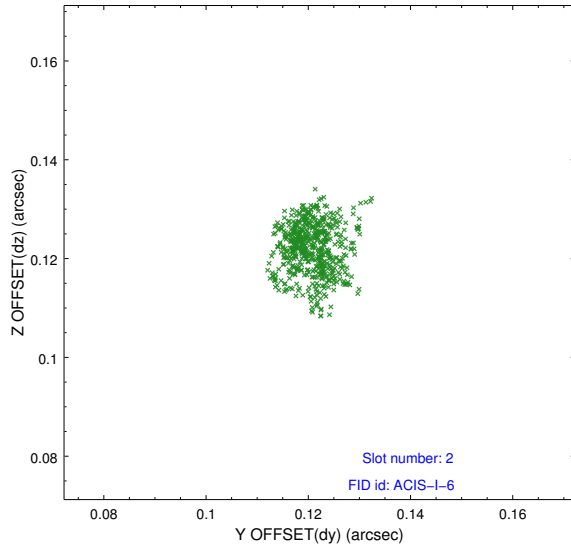
2.5.1 Slot 0



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	1.9554539341927

A.2 Comments