

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16968 - L2 Version 1
Chandra X-Ray Center

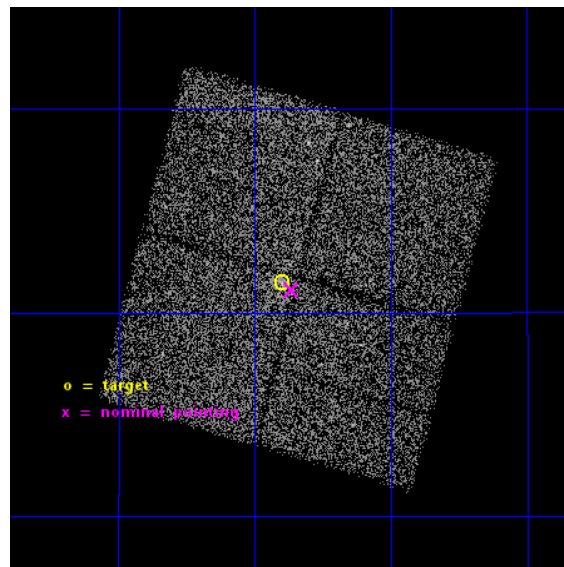
L2 Processing Date : Apr 4 2015

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1 Front

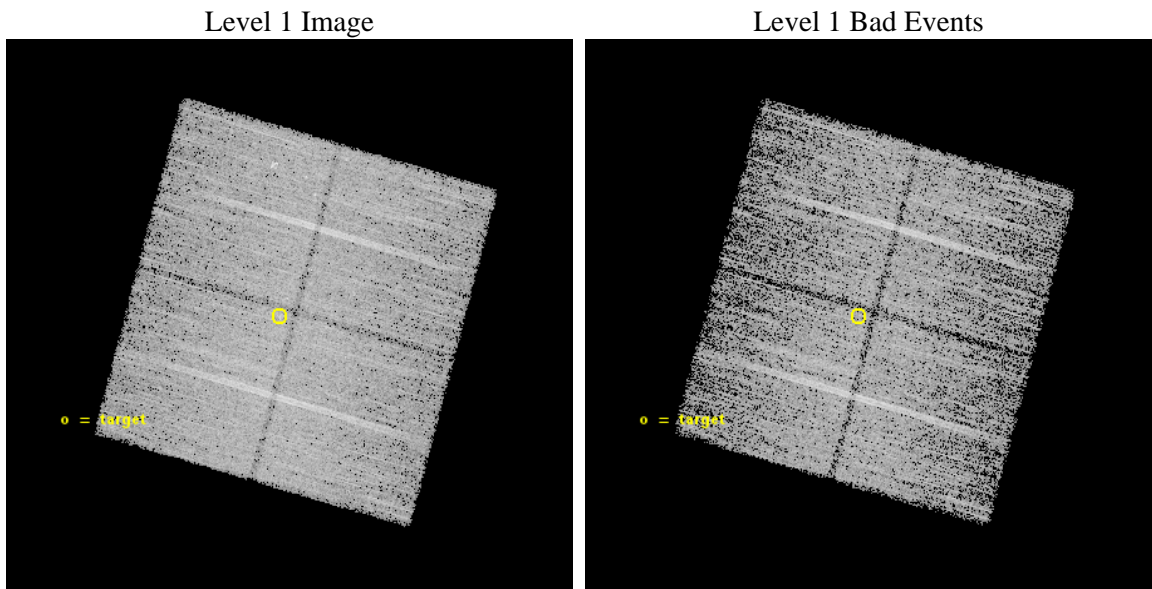
seq_num	601161	Sequence number
obs_id	16968	Observation id
title	AN EFFICIENT SURVEY FOR GLOBULAR CLUSTER BLACK HOLES WITHIN 20 MPC	
observer	Prof. Thomas Maccarone	Principal investigator
object	NGC 4382	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.35	Observer's specified target RA [deg]
dec_targ	18.191083	Observer's specified target Dec [deg]
ra_nom	186.34132421108	Nominal RA [deg]
dec_nom	18.18537616959	Nominal Dec [deg]
roll_nom	195.59758848365	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20088.000154614	Sum of GTIs [s]
livetime	19825.535644024	Livetime [s]
ontime0	20088.000154614	Sum of GTIs [s]
ontime1	20088.000154614	Sum of GTIs [s]
ontime2	20088.000154614	Sum of GTIs [s]
ontime3	20088.000154614	Sum of GTIs [s]
l2events	37627	Number of level 2 events



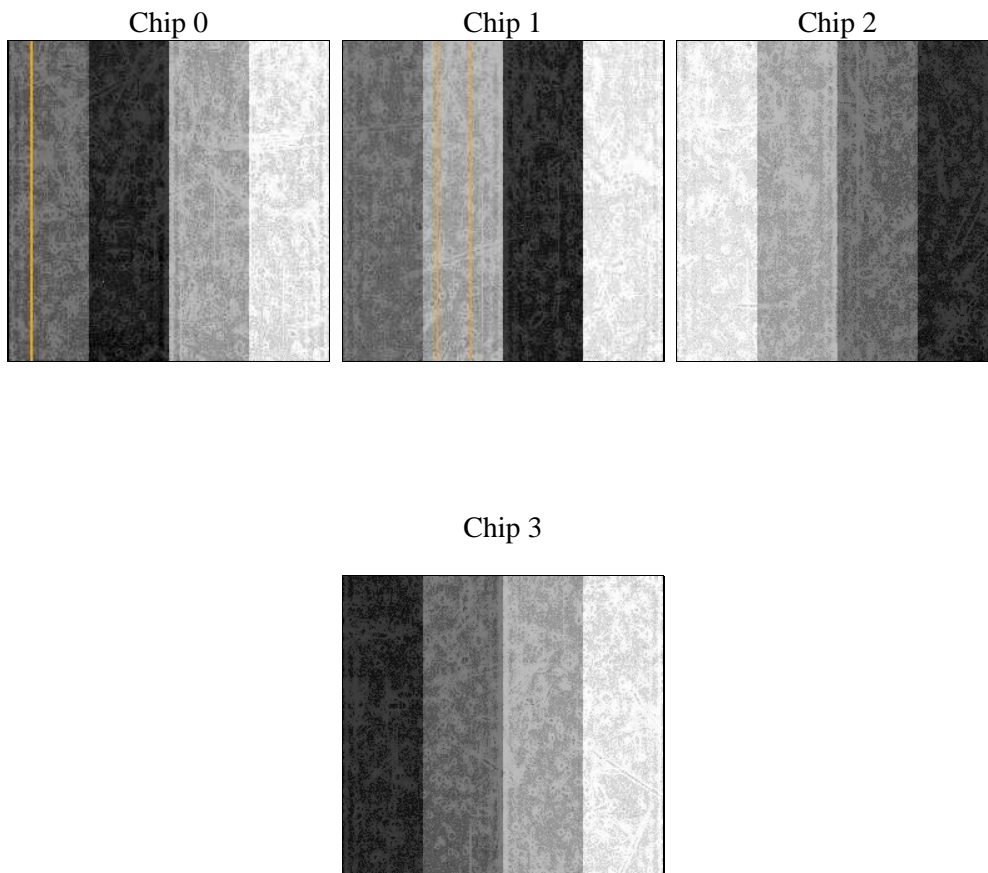
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	20088.000154614	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	20088.000154614	Sum of GTIs [s]
date	2015-04-04T15:52:33	Date and time of file creation	ontime1	20088.000154614	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20088.000154614	Sum of GTIs [s]
			ontime3	20088.000154614	Sum of GTIs [s]
			l1events	366442	Number of level 1 events

2.1.4 Events

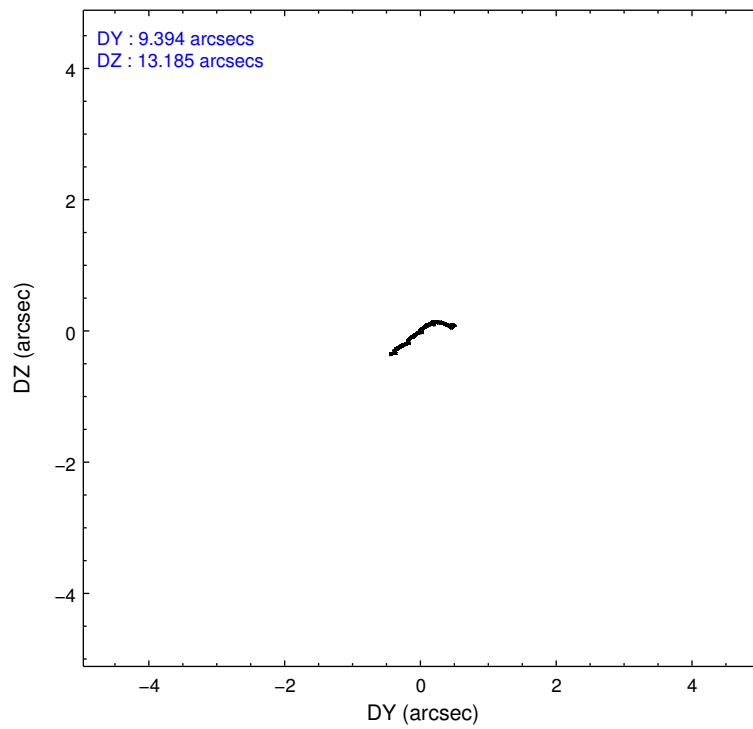
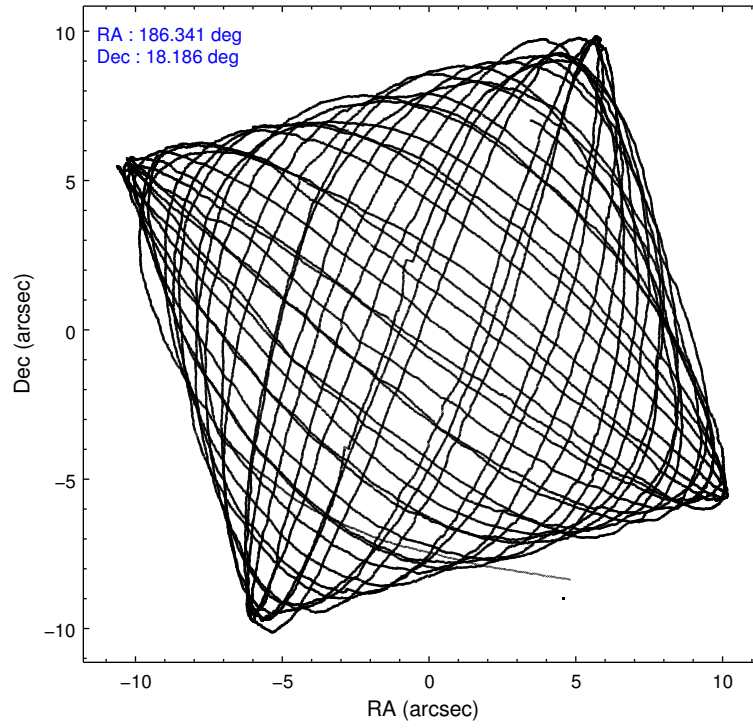
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	89826	89873	93953	92790
rejected events	78857	77392	83263	81980
rejected %	87%	86%	88%	88%

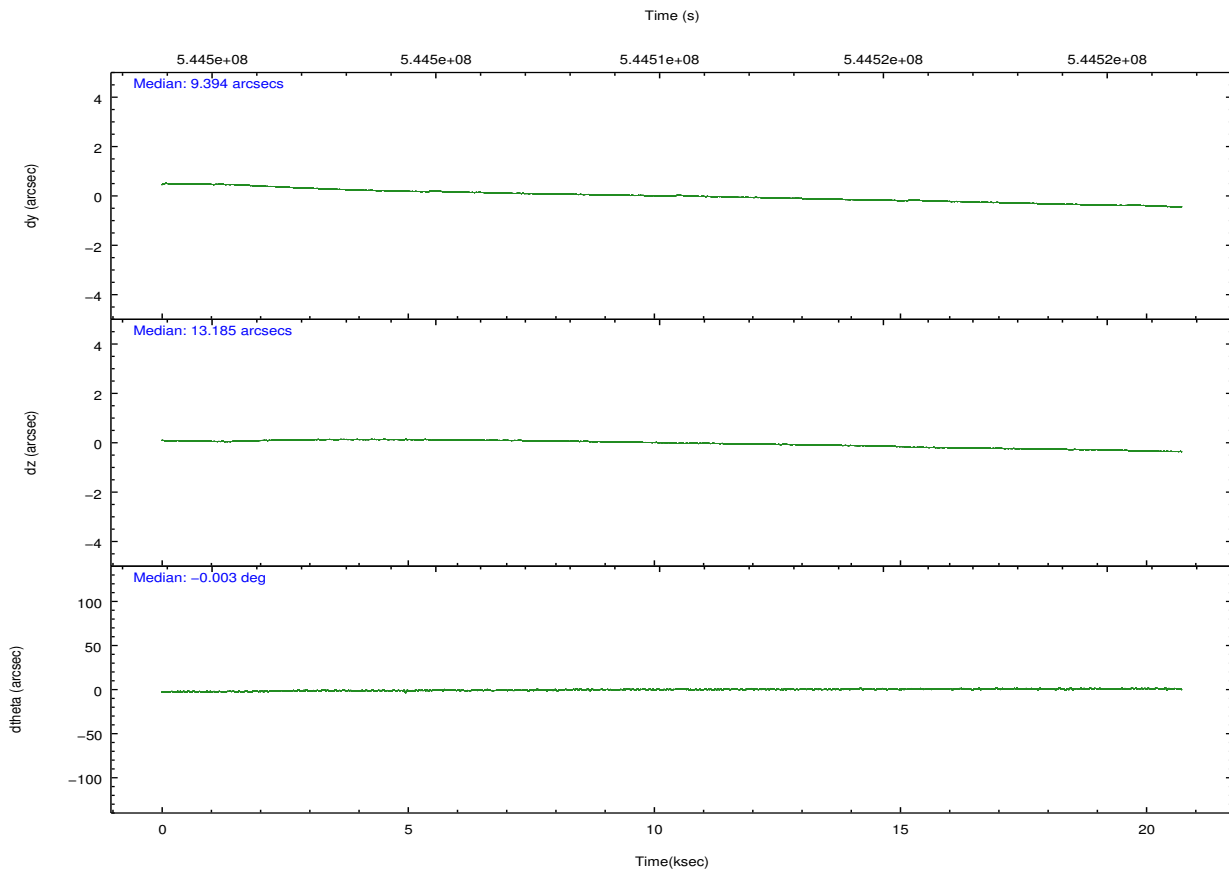
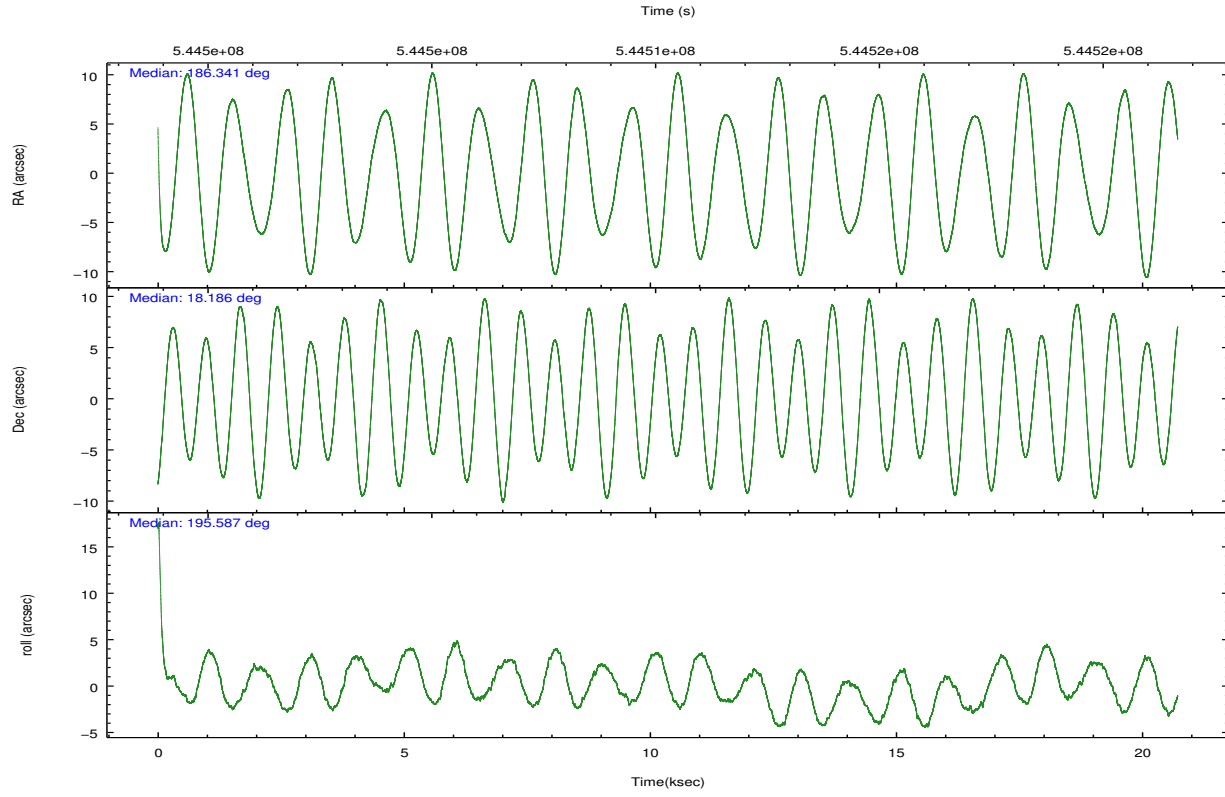
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3887	4637	3978	4051
	4%	5%	4%	4%
grade 1 events	44	52	59	53
	0%	0%	0%	0%
grade 2 events	2663	2844	2458	2293
	2%	3%	2%	2%
grade 3 events	1157	1104	1027	1121
	1%	1%	1%	1%
grade 4 events	1052	1126	1098	1090
	1%	1%	1%	1%
grade 5 events	4285	4522	4038	4847
	4%	5%	4%	5%
grade 6 events	2210	2772	2130	2258
	2%	3%	2%	2%
grade 7 events	74528	72816	79165	77077
	82%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	186.361569	186.3413242110796	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.205174	18.18537616958988	Alternating exposures requested	N	N
[deg] Pointing Roll	195.382571	195.5975884836466	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	544500618.184000	544498712.96394			
Observation start date	2015-04-04T02:09:11	2015-04-04T01:38:32			
[s] Observation end time (MET)	544520618.184000	544521662.20272			
Observation end date	2015-04-04T07:42:31	2015-04-04T08:01:02			
Read mode	TIMED	TIMED			

2.3 Aspect





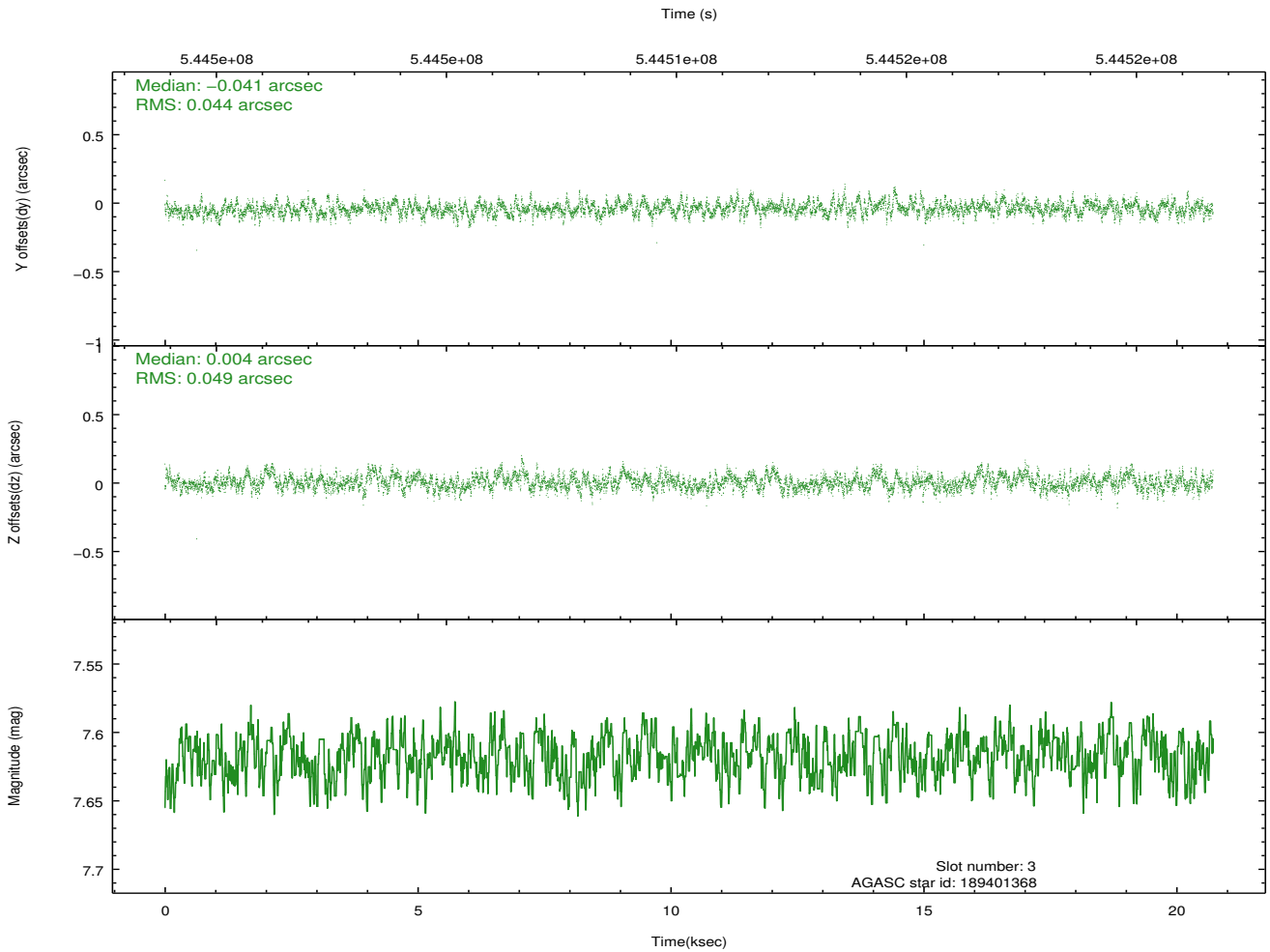
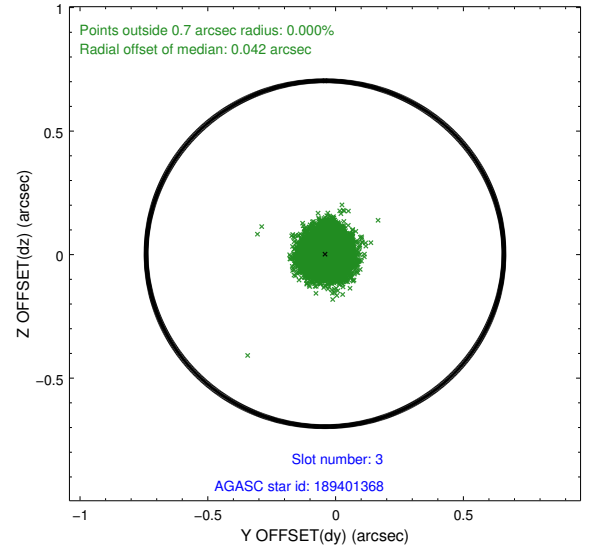
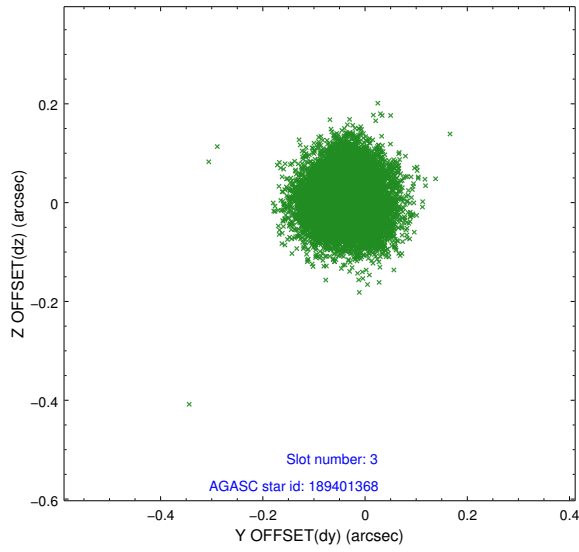
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.16	5053	0.078	-0.038	0.020	0.029	0.000000	0.000000	930.31	-836.71
1	FID		ACIS-I-5	7.15	5054	-0.245	0.071	0.011	0.018	0.000000	0.000000	-1818.06	1060.74
2	FID		ACIS-I-6	7.14	5054	0.077	0.037	0.011	0.017	0.000000	0.000000	395.61	1705.45
3	GUIDE	used	189401368	7.62	10108	-0.041	0.004	0.071	0.113	186.150770	18.668355	251.46	-1798.36
4	GUIDE	used	189405064	7.33	10107	-0.202	-0.061	0.084	0.137	186.887888	17.834342	-1385.16	1763.31
5	GUIDE	used	189665040	8.41	10105	-0.130	0.222	0.077	0.124	186.390146	18.867028	-725.08	-2270.43
6	GUIDE	used	189683448	9.10	10098	-0.098	-0.027	0.095	0.155	186.626682	18.890381	-1524.63	-2139.64
7	GUIDE	used	189403984	8.26	10105	0.473	-0.141	0.080	0.129	187.021519	18.330647	-2294.69	158.44

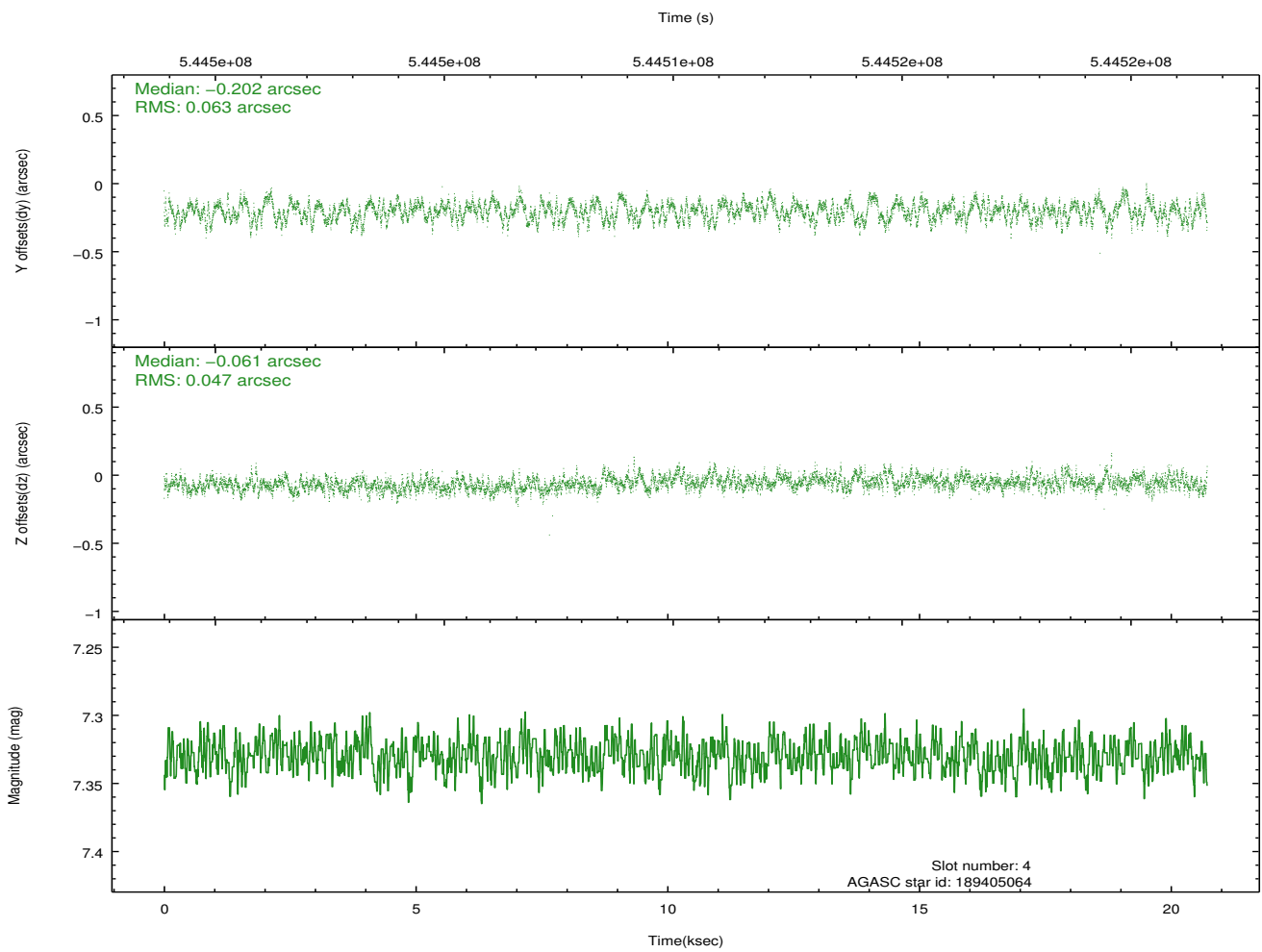
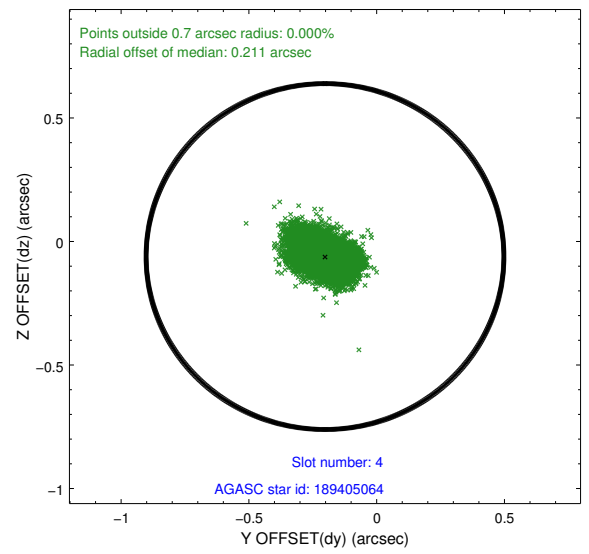
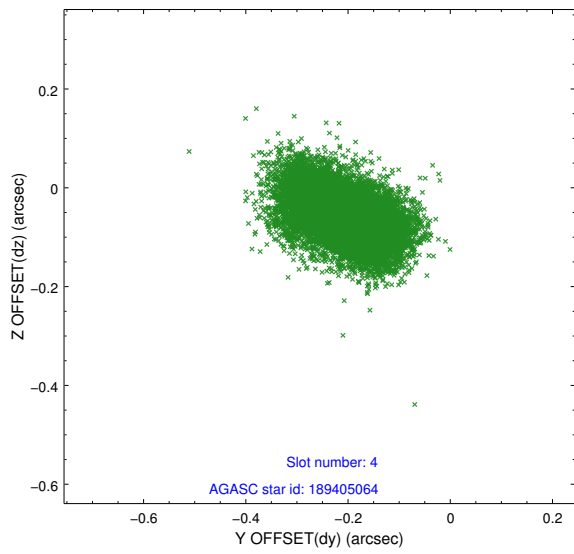
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2.4 Star Slots

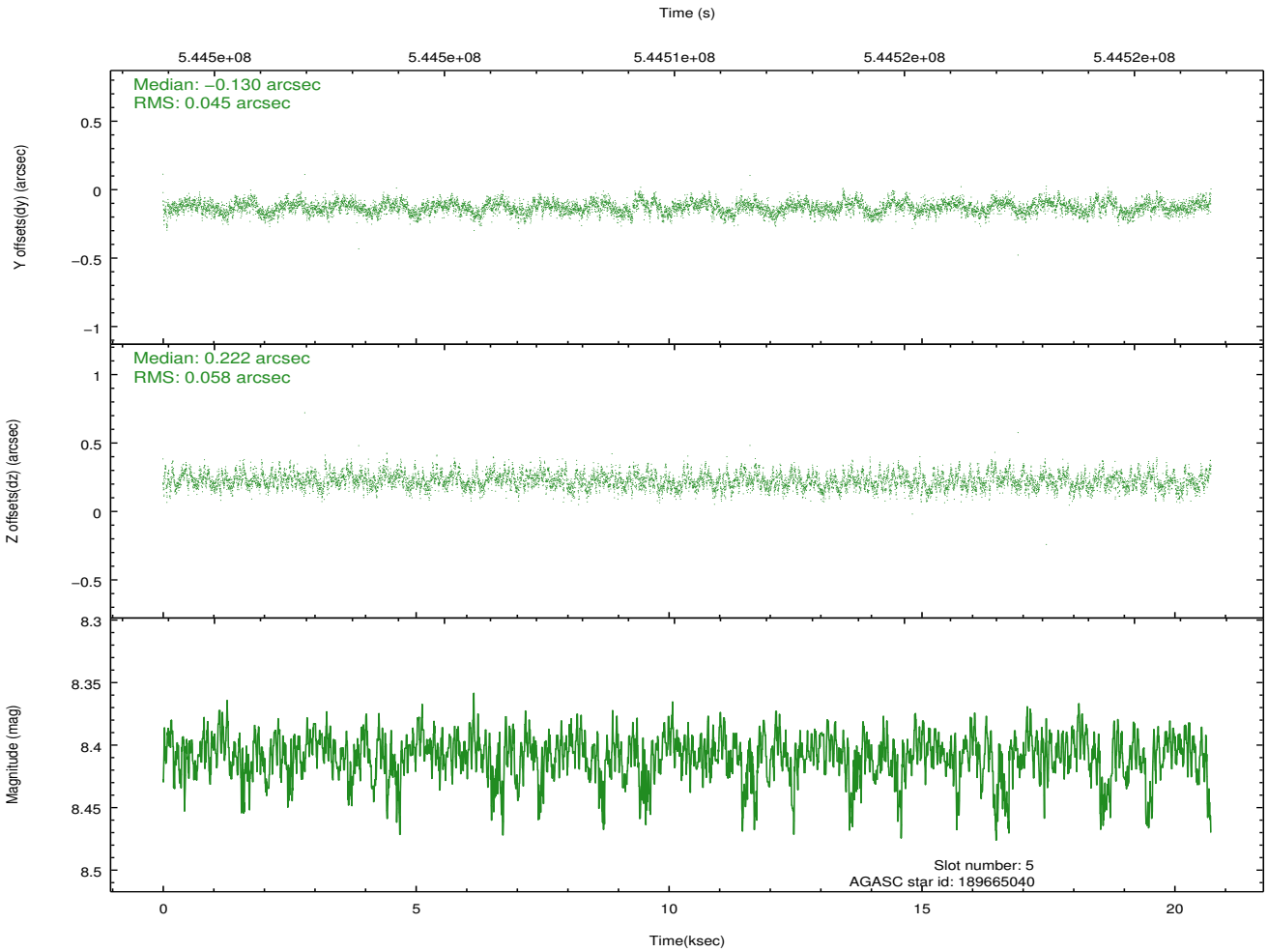
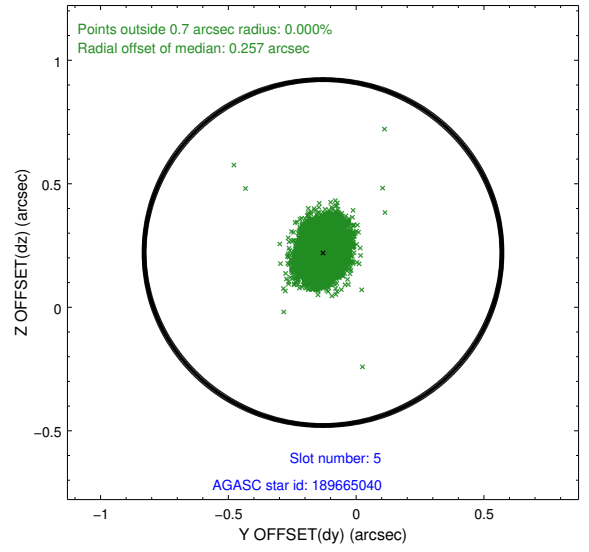
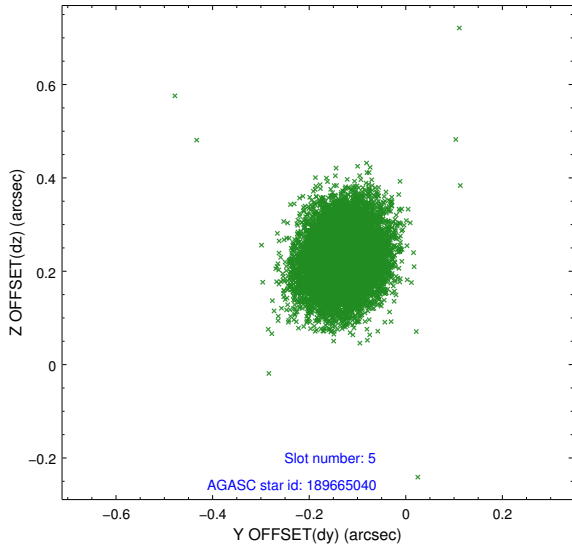
2.4.1 Slot 3



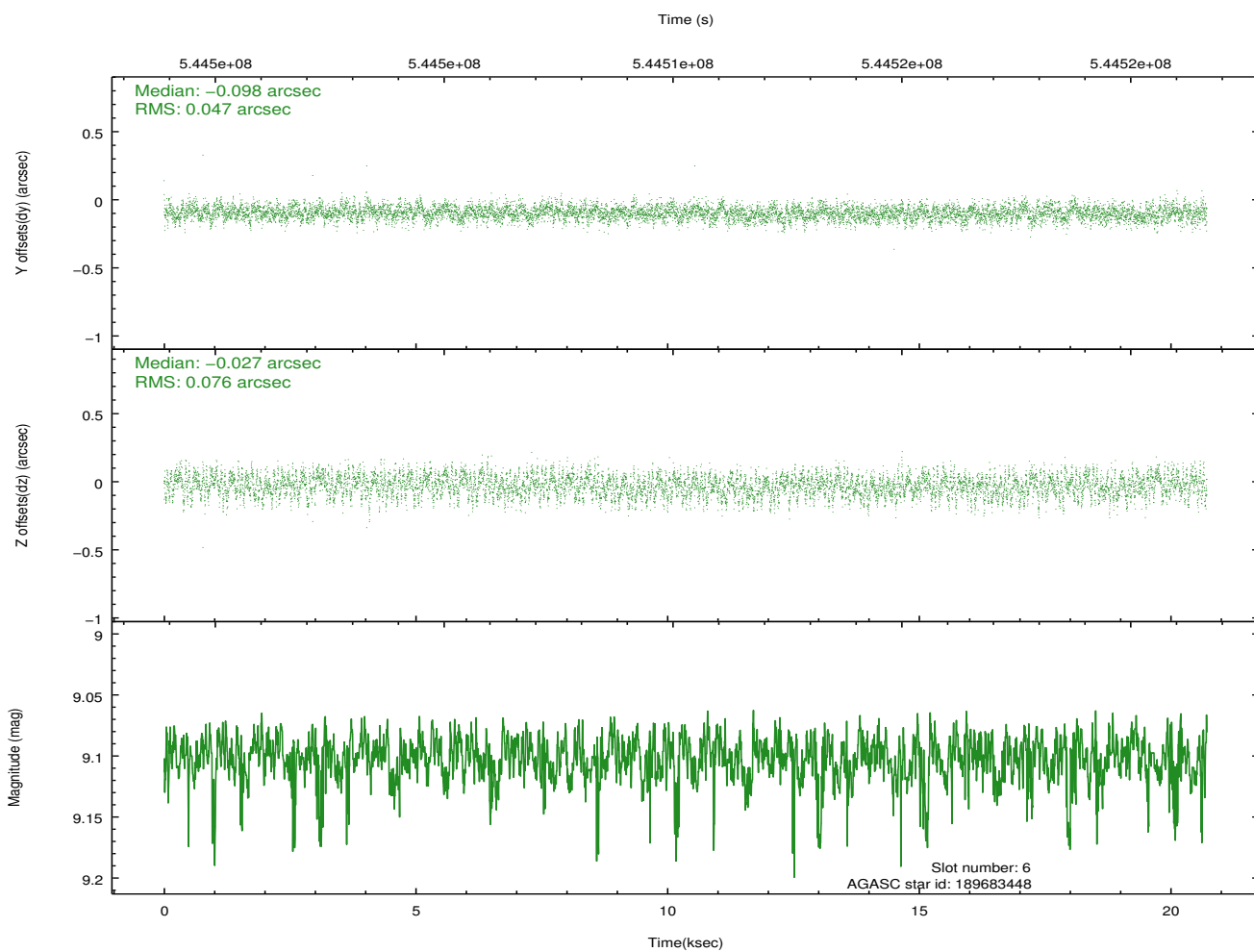
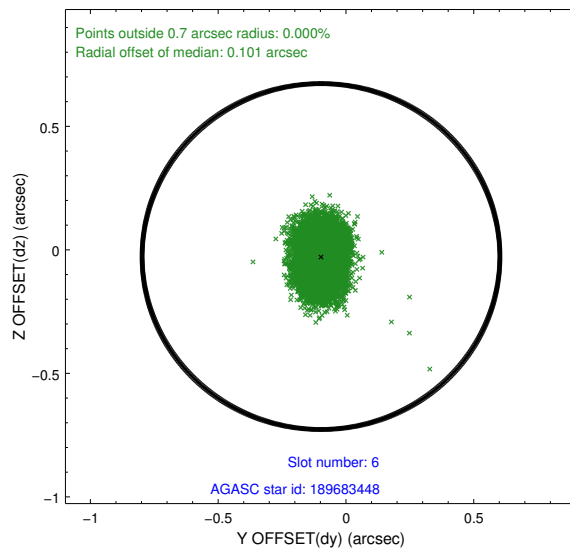
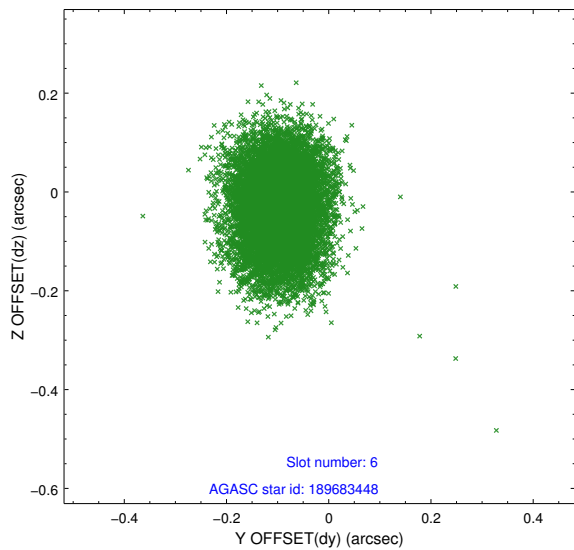
2.4.2 Slot 4



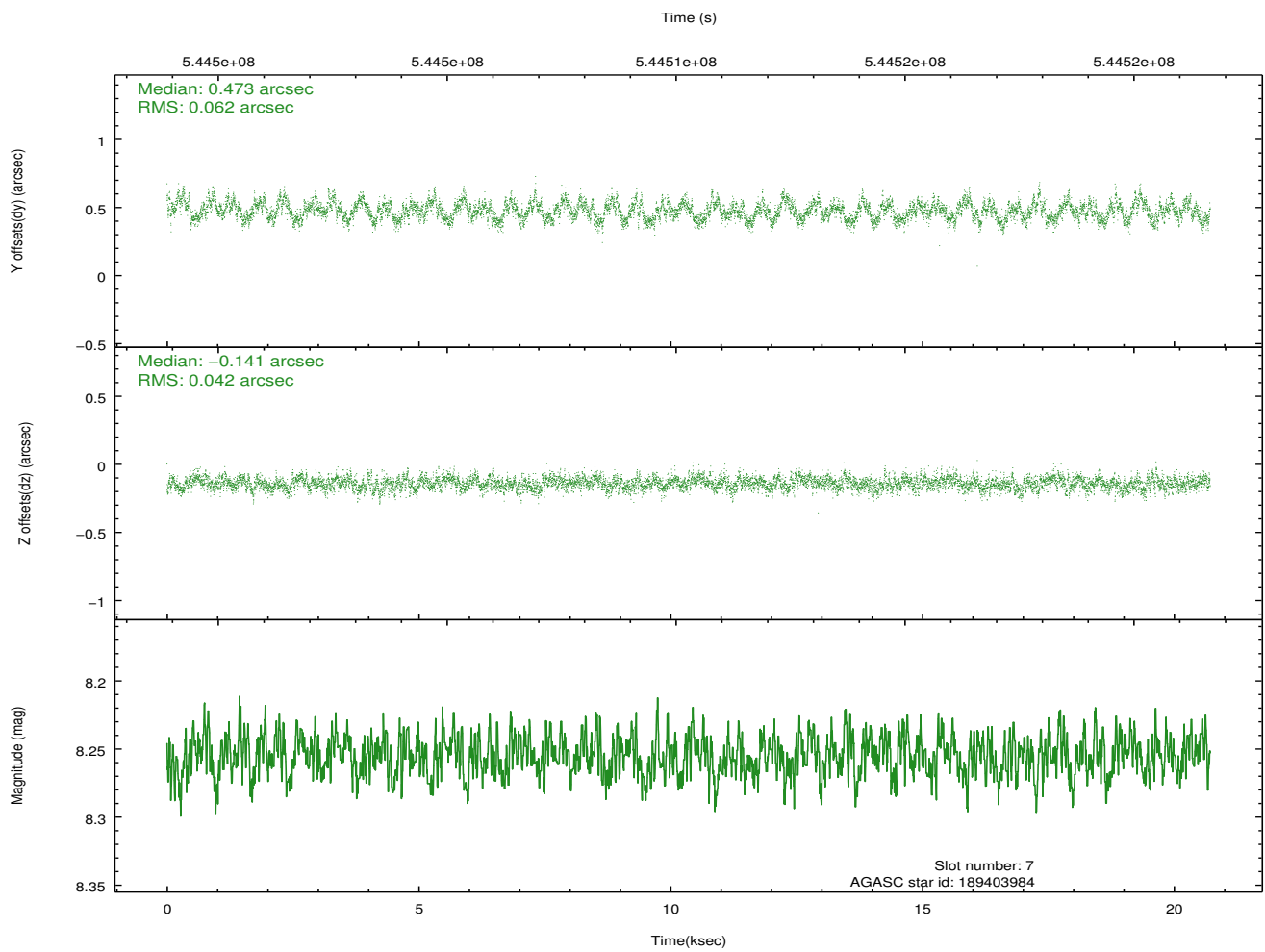
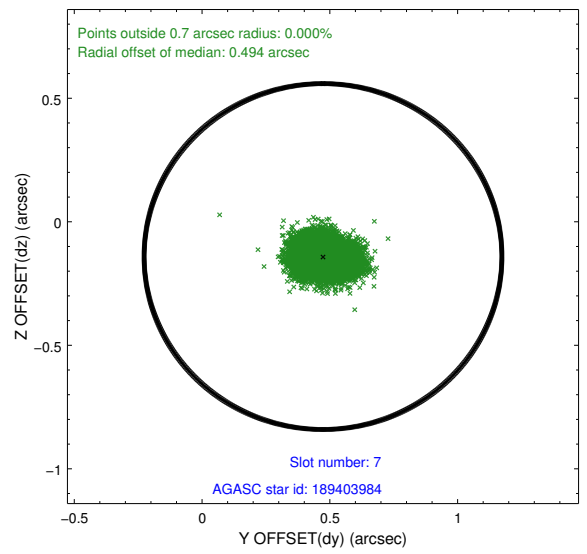
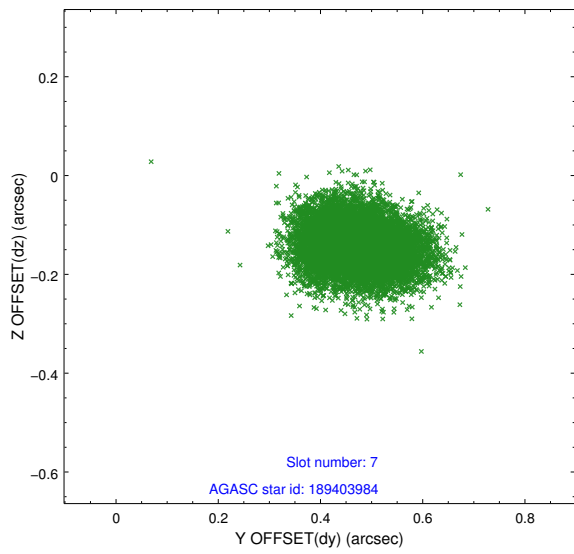
2.4.3 Slot 5



2.4.4 Slot 6

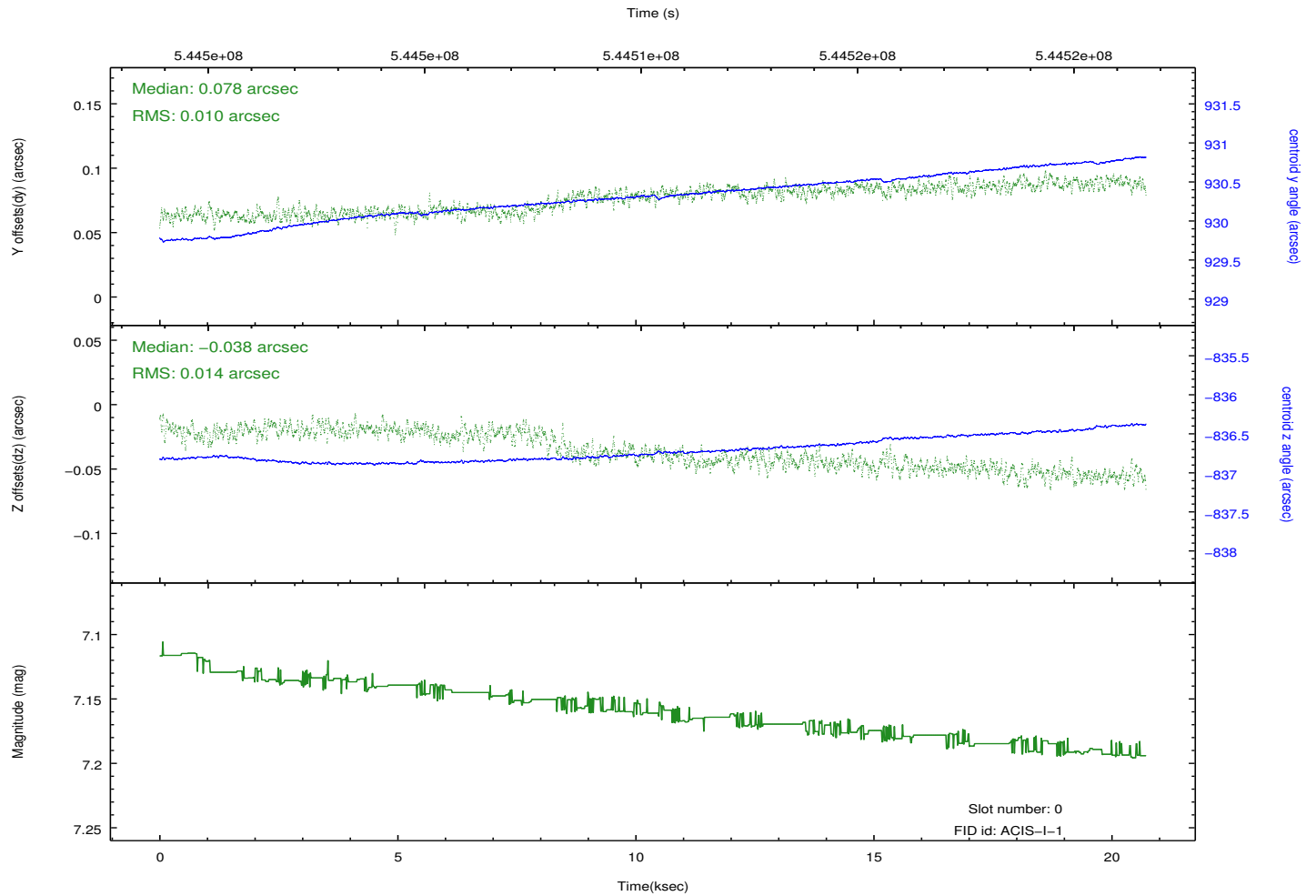
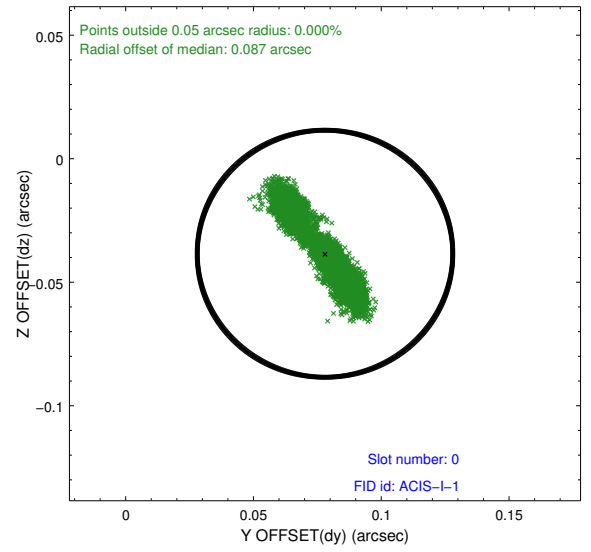
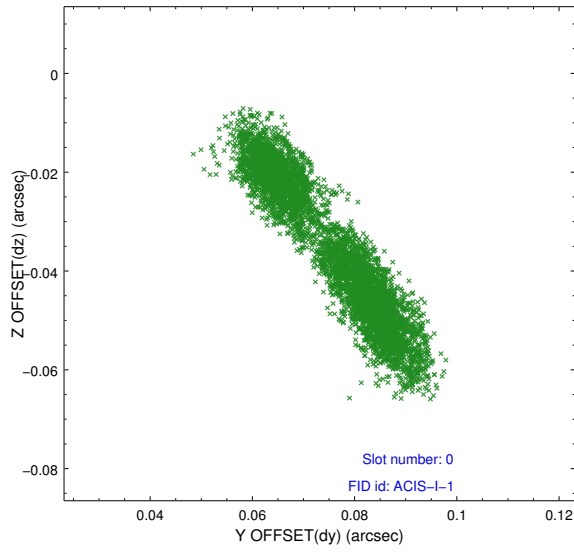


2.4.5 Slot 7

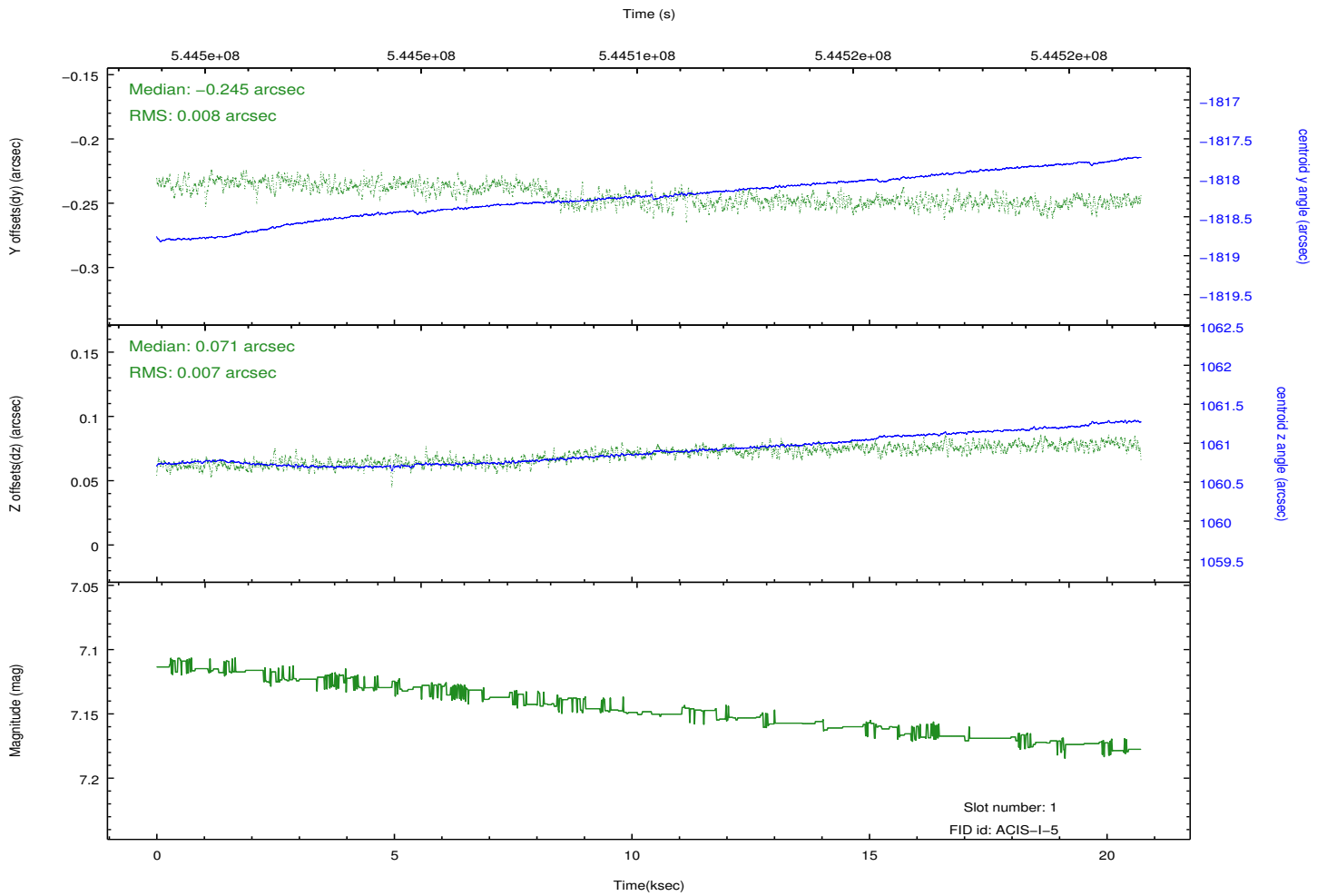
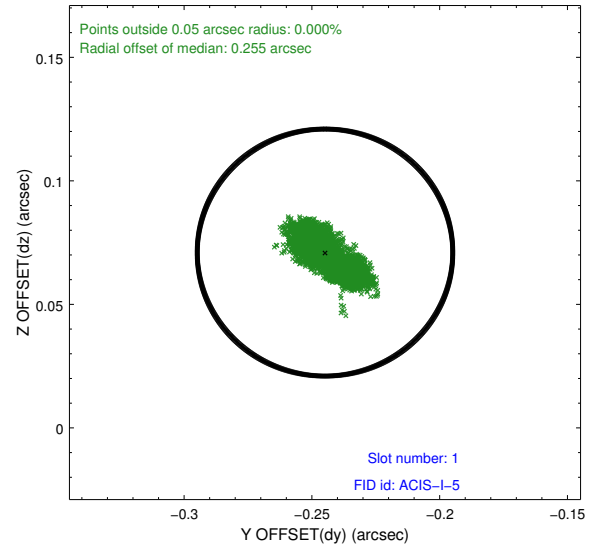
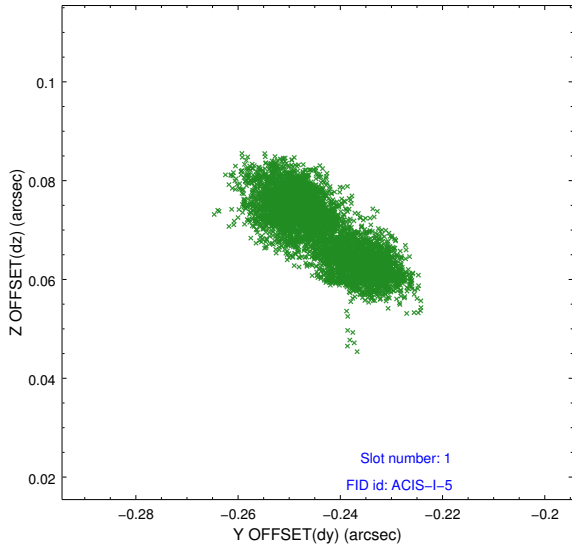


2.5 FID Slots

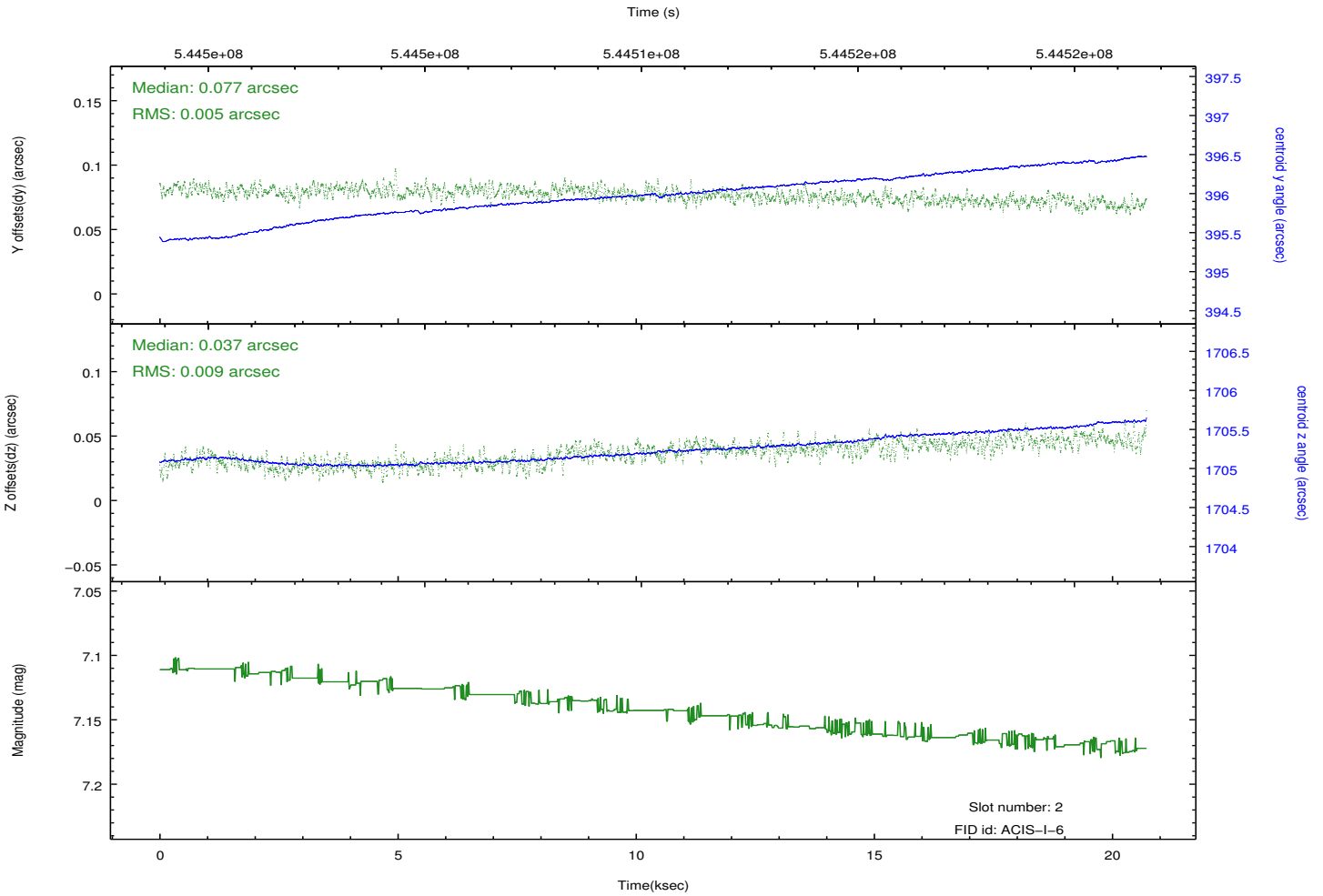
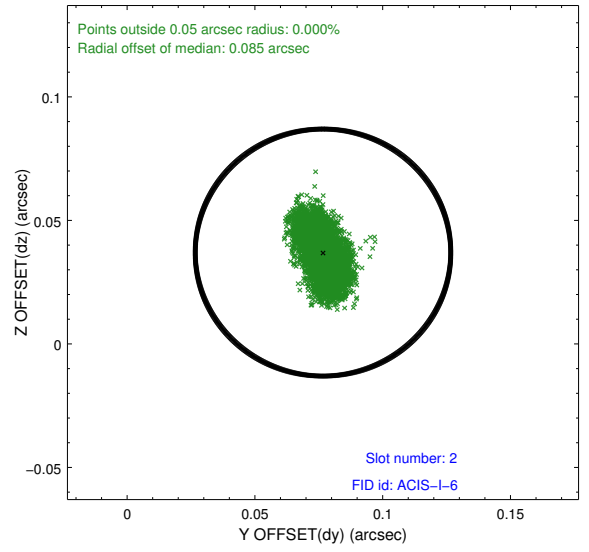
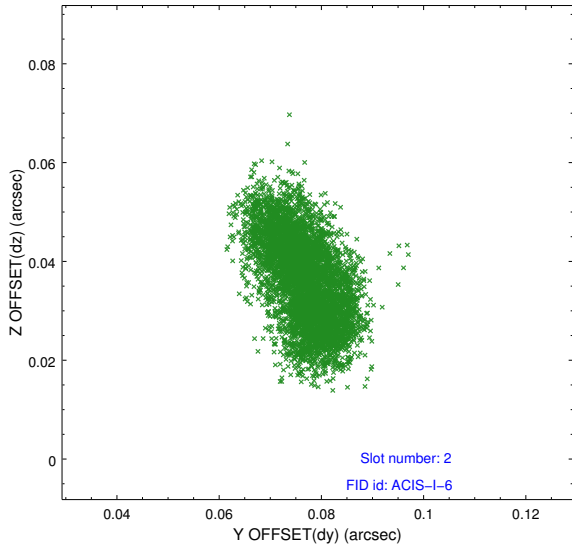
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.088000154614

A.2 Comments