

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19981 - L2 Version 1
Chandra X-Ray Center

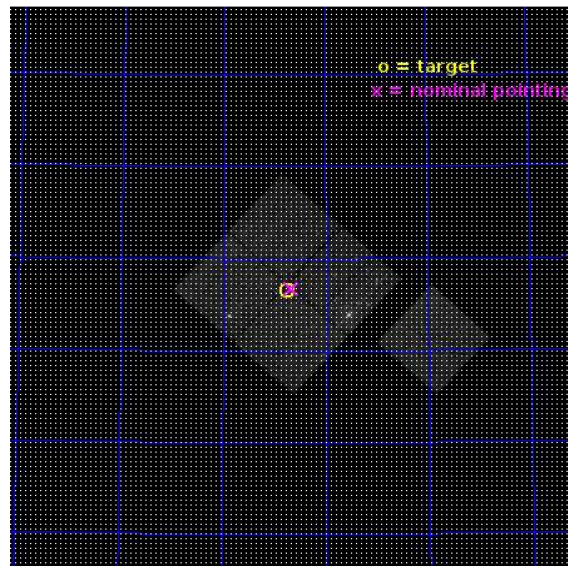
L2 Processing Date : Jan 12 2017

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1 Front

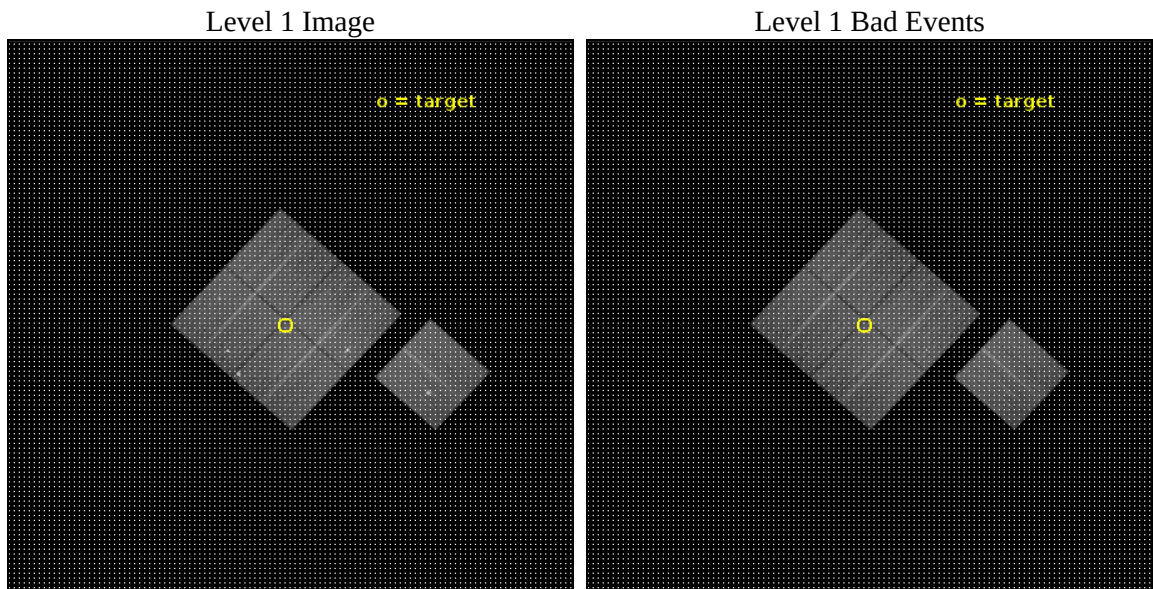
seq_num	601233	Sequence number
obs_id	19981	Observation id
title	To the Edge and Beyond: A Legacy Survey of the Grand Design Spiral M81	Proposal title
observer	Douglas Swartz	Principal investigator
object	M81 E	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.187083	Observer's specified target RA [deg]
dec_targ	69.109167	Observer's specified target Dec [deg]
ra_nom	149.16689037789	Nominal RA [deg]
dec_nom	69.112477716832	Nominal Dec [deg]
roll_nom	132.22755185041	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30053.745051622	Sum of GTIs [s]
livetime	29661.070747278	Livetime [s]
ontime0	30056.763021946	Sum of GTIs [s]
ontime1	30053.662981629	Sum of GTIs [s]
ontime2	30050.562961578	Sum of GTIs [s]
ontime3	30053.745051622	Sum of GTIs [s]
ontime6	30053.580901623	Sum of GTIs [s]
l2events	139389	Number of level 2 events



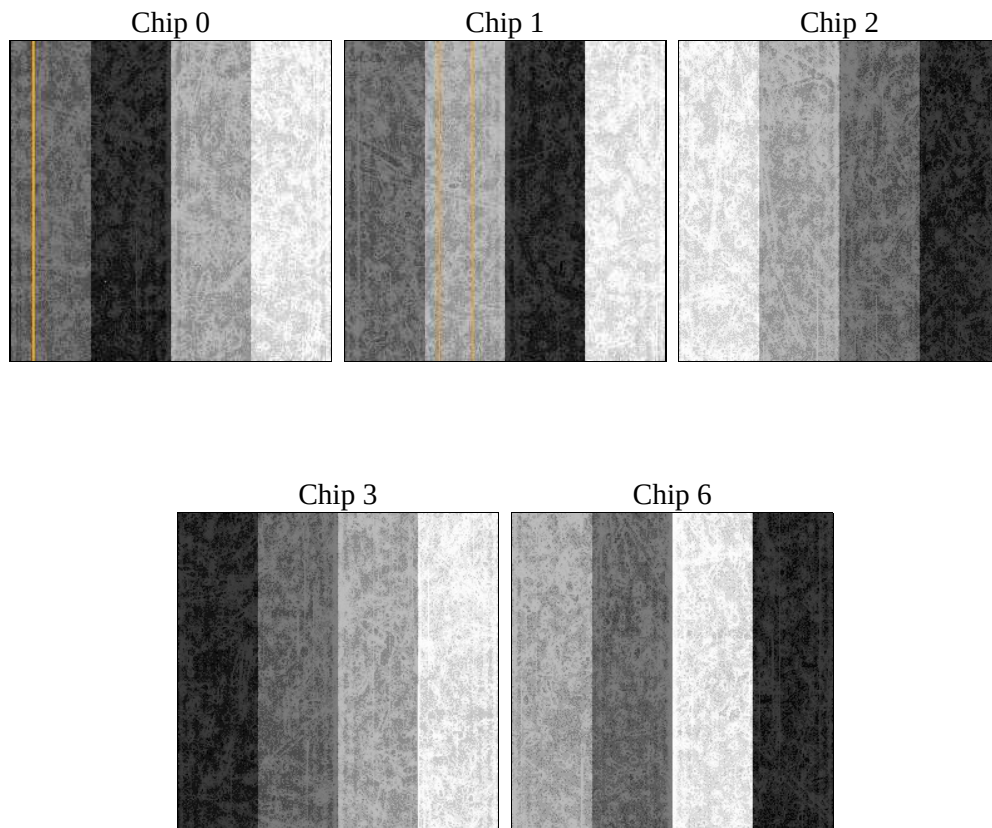
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	30053.745051622	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	30056.763021946	Sum of GTIs [s]
date	2017-01-12T12:23:42	Date and time of file creation	ontime1	30053.662981629	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30050.562961578	Sum of GTIs [s]
			ontime3	30053.745051622	Sum of GTIs [s]
			ontime6	30053.580901623	Sum of GTIs [s]
			l1events	1136538	Number of level 1 events

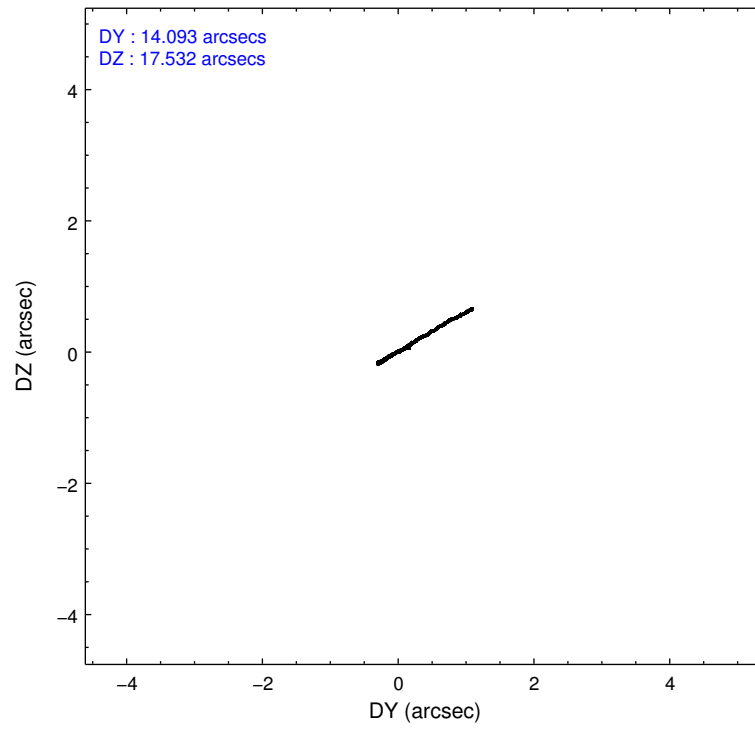
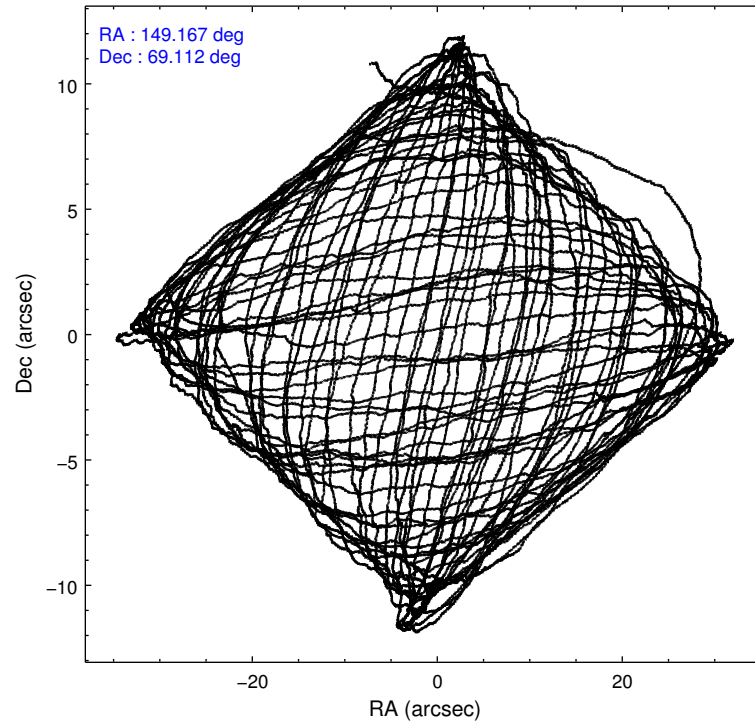
2.1.4 Events

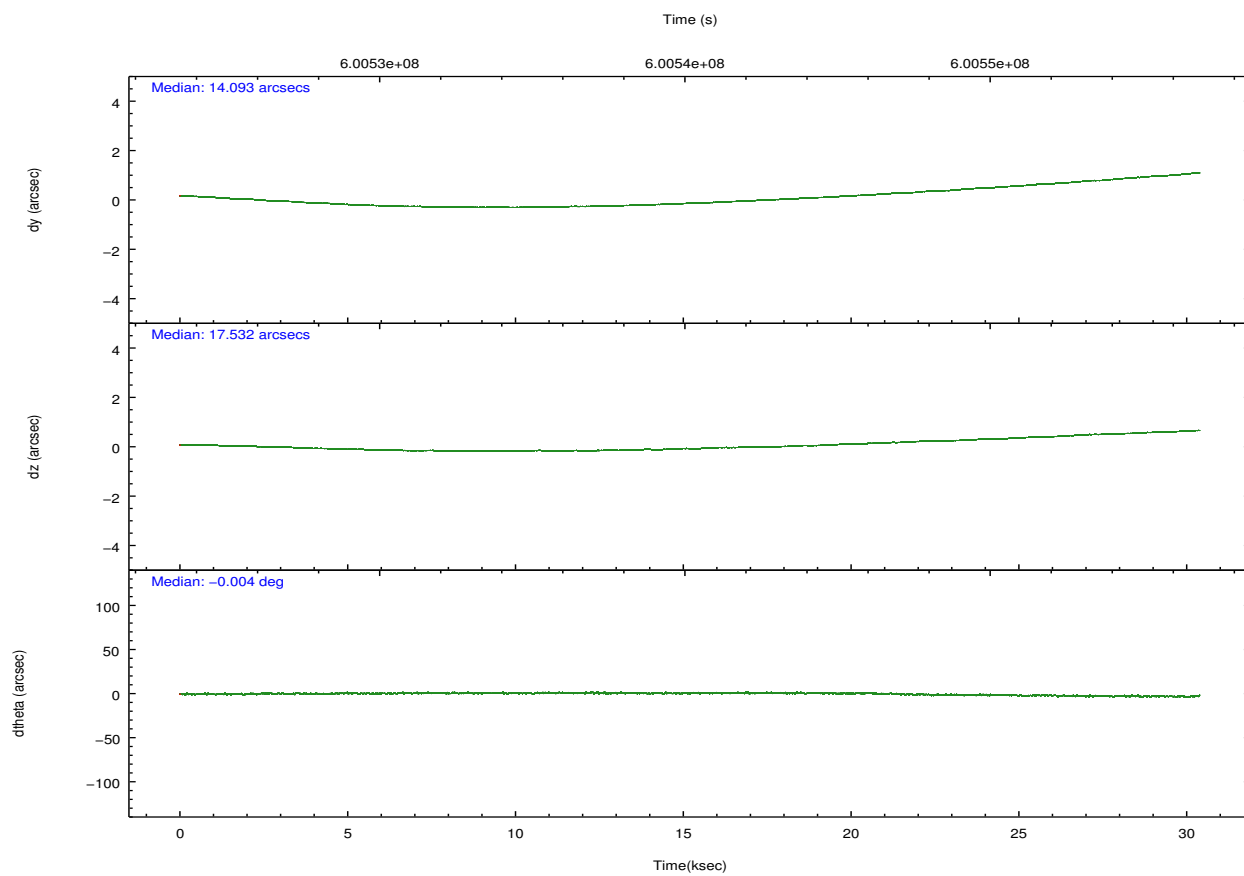
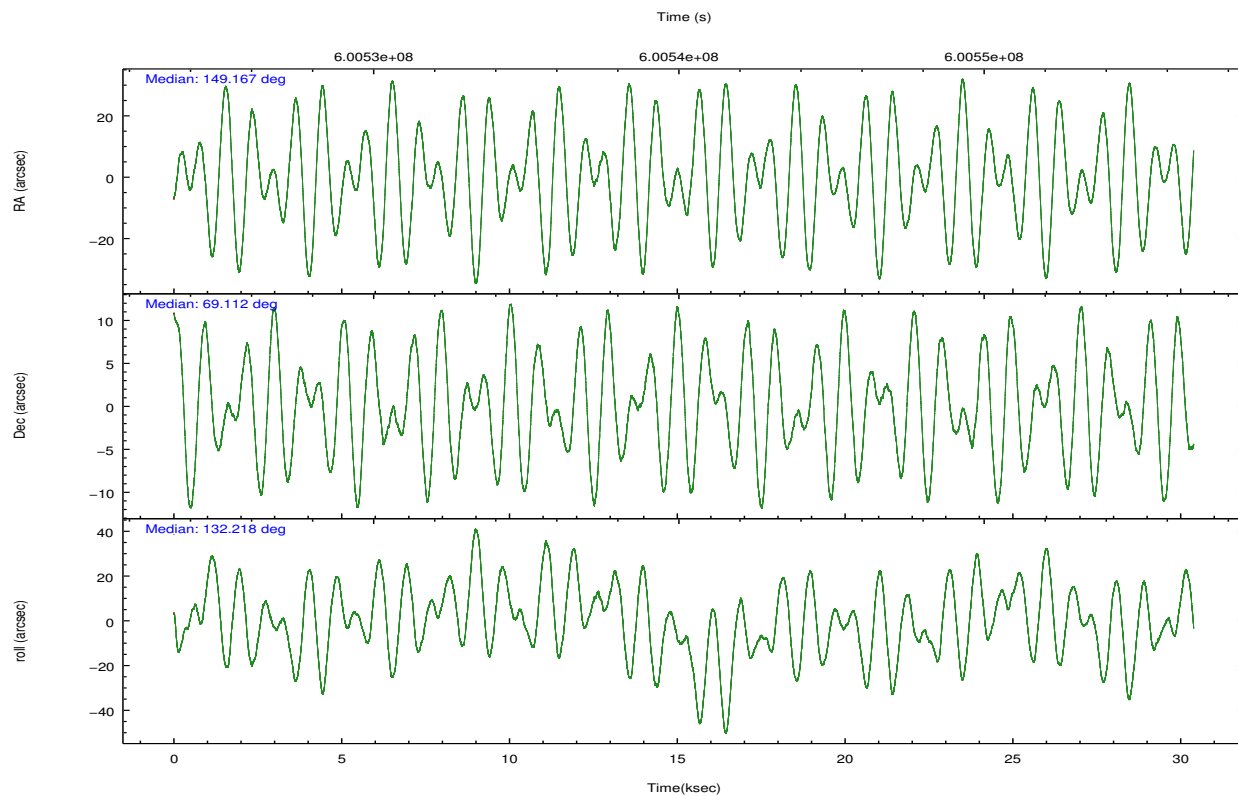
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	205017	216894	258183	224151	232293	grade 0 events	7807	18584	29730	17447	16658
rejected events	181695	178072	207744	192183	199166		3%	8%	11%	7%	7%
rejected %	88%	82%	80%	85%	85%	grade 1 events	94	309	1235	164	205
							0%	0%	0%	0%	0%
						grade 2 events	5857	7703	8398	4903	5925
							2%	3%	3%	2%	2%
						grade 3 events	2376	2981	3363	2432	2263
							1%	1%	1%	1%	0%
						grade 4 events	2210	2860	3388	2333	2287
							1%	1%	1%	1%	0%
						grade 5 events	8728	9194	8465	10017	9455
							4%	4%	3%	4%	4%
						grade 6 events	5078	6700	5571	4857	6001
							2%	3%	2%	2%	2%
						grade 7 events	172867	168563	198033	181998	189499
							84%	77%	76%	81%	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	149.240686	149.1668903778933	CCD I2 on	Y	Y
[deg] Pointing Dec	69.104134	69.11247771683162	CCD I3 on	Y	Y
[deg] Pointing Roll	131.949926	132.2275518504057	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)	600525362.184000	600524325.12844	CCD S5 on	N	N
Observation start date	2017-01-11T12:34:53	2017-01-11T12:18:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	600555362.184000	600555903.84277	On-chip summing requested	N	N
Observation end date	2017-01-11T20:54:53	2017-01-11T21:05:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



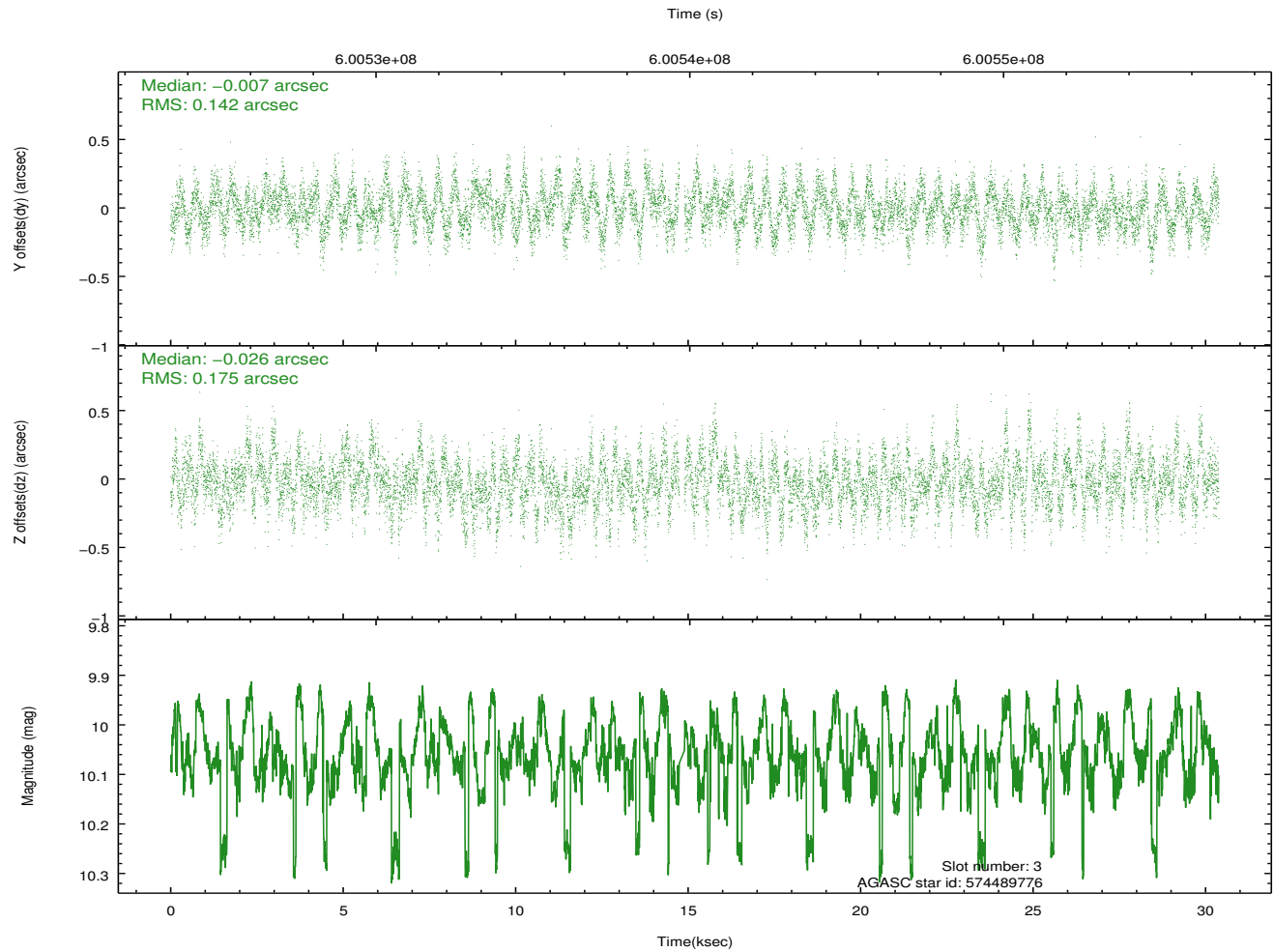
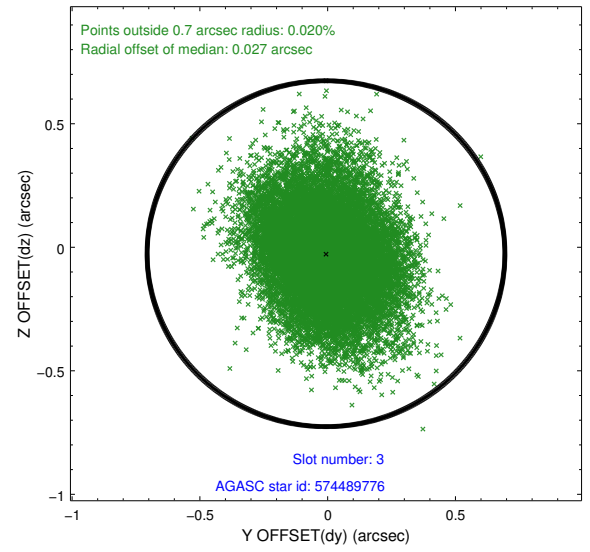
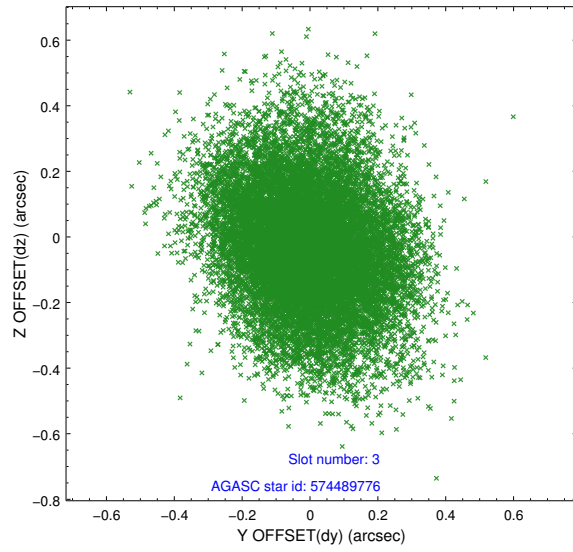


Slot Statistics

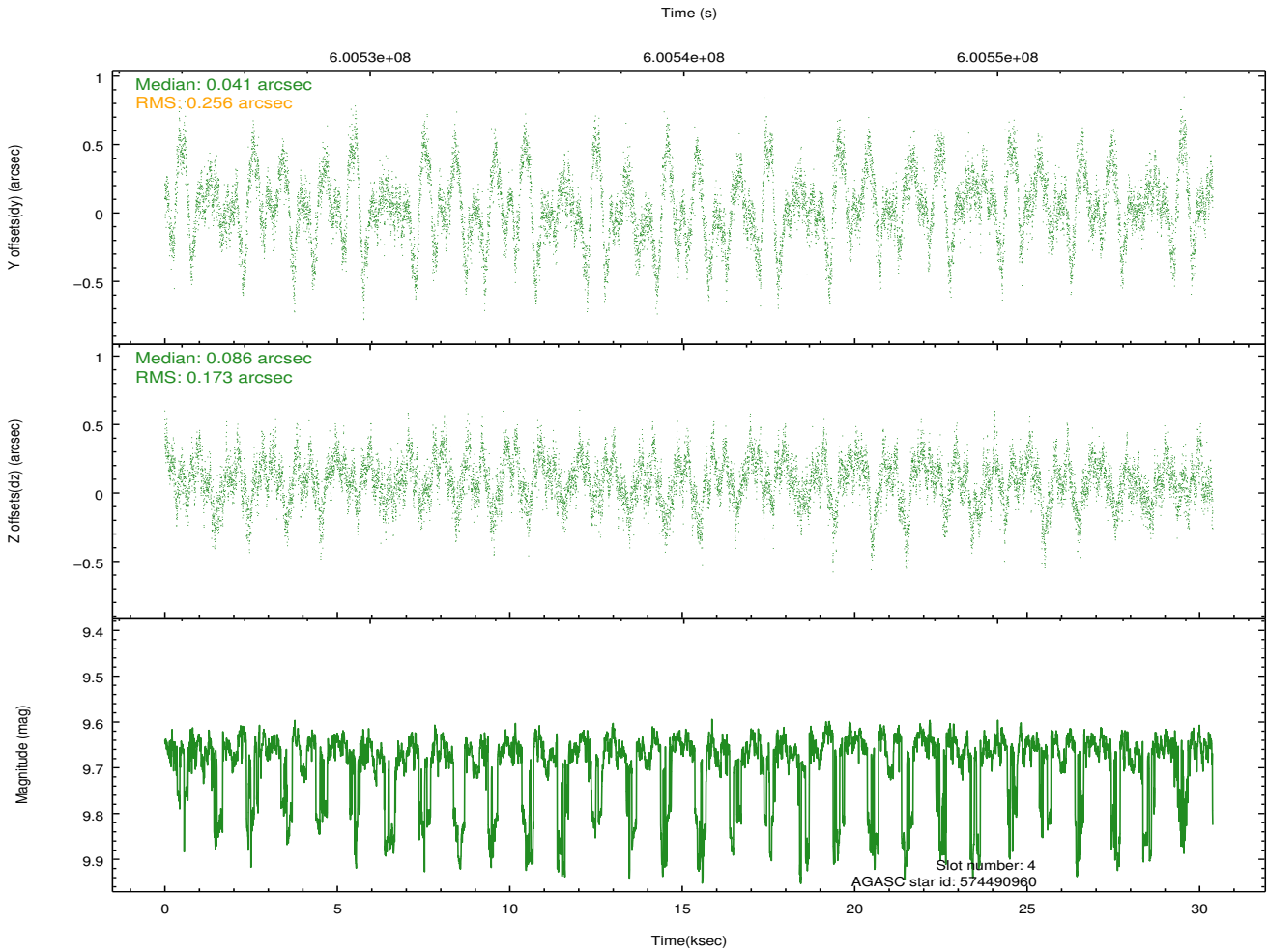
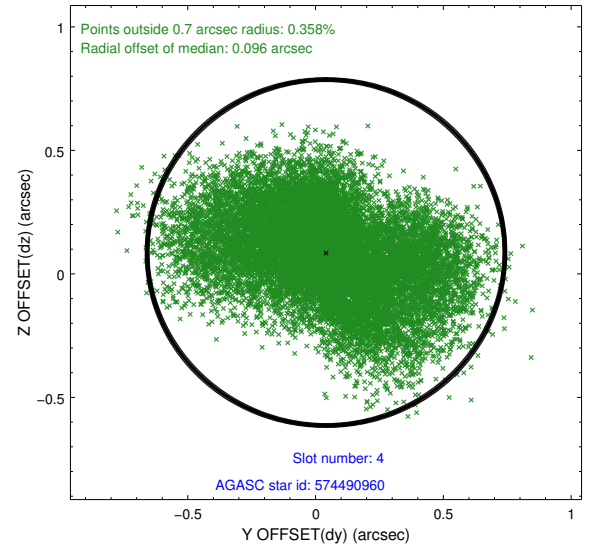
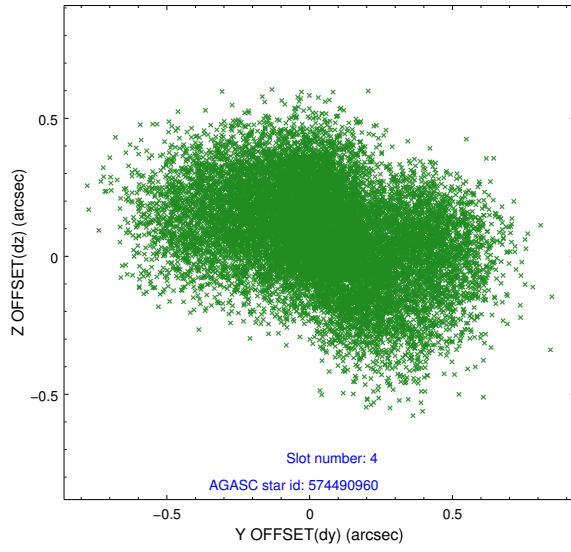
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	7410	0.077	-0.041	0.017	0.034	0.000000	0.000000	925.37	-841.29
1	FID		ACIS-I-5	7.26	7412	-0.340	0.043	0.011	0.020	0.000000	0.000000	-1823.18	1056.16
2	FID		ACIS-I-6	7.25	7412	0.169	0.066	0.016	0.036	0.000000	0.000000	390.85	1700.83
3	GUIDE	used	574489776	10.06	14697	-0.007	-0.026	0.240	0.393	148.323662	69.046710	642.13	1009.83
4	GUIDE	used	574490960	9.67	14802	0.041	0.086	0.334	0.542	148.185918	69.658768	2376.11	-360.07
5	GUIDE	used	574491184	9.05	14814	-0.104	-0.044	0.158	0.254	148.582453	69.768699	2330.95	-993.05
6	GUIDE	used	574491280	9.30	14763	0.067	0.172	0.234	0.348	148.611567	69.450135	1461.63	-241.63
7	GUIDE	used	574493848	10.09	14795	-0.011	-0.182	0.275	0.442	147.355161	69.035593	1467.62	1945.50

2.4 Star Slots

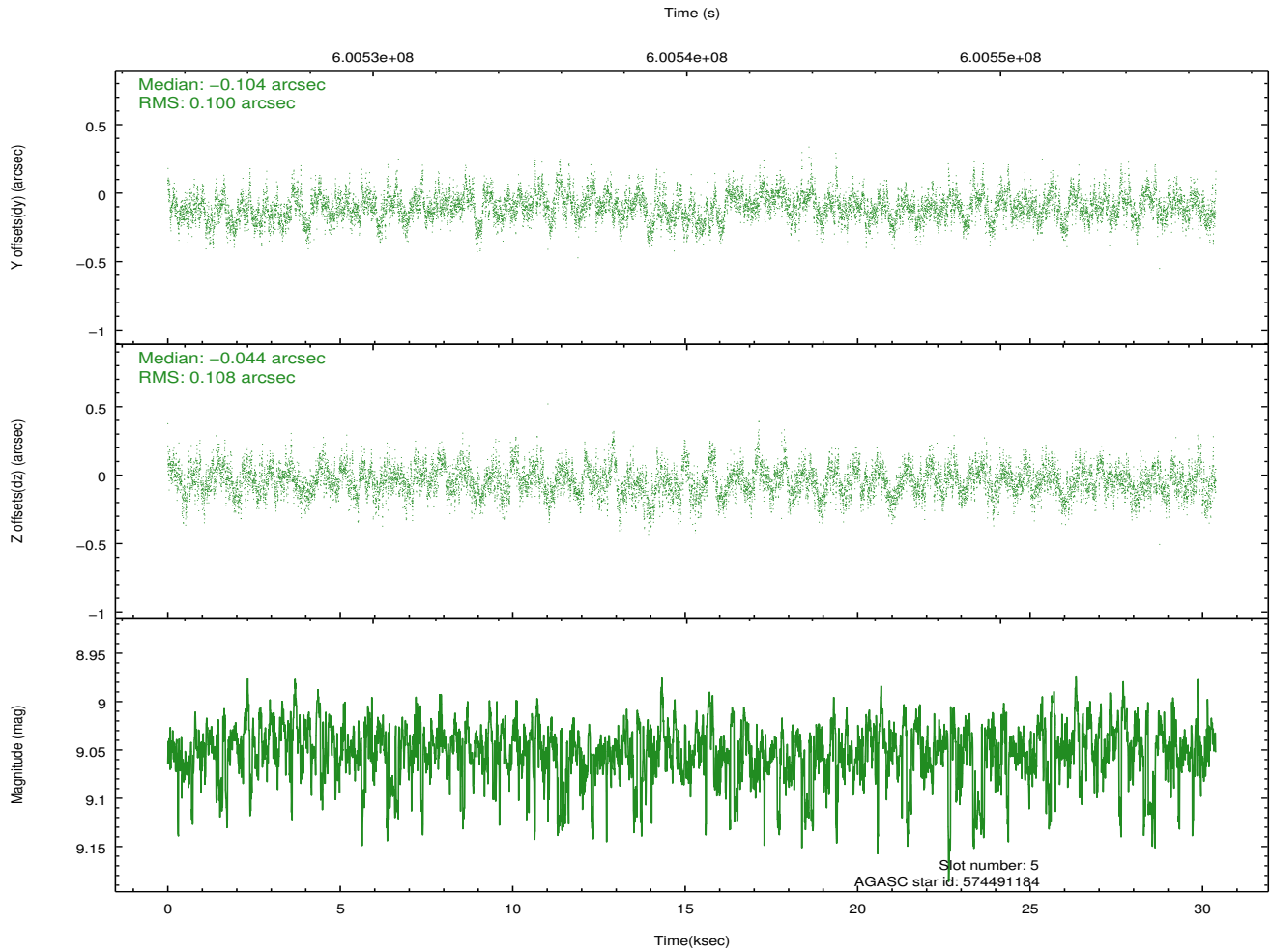
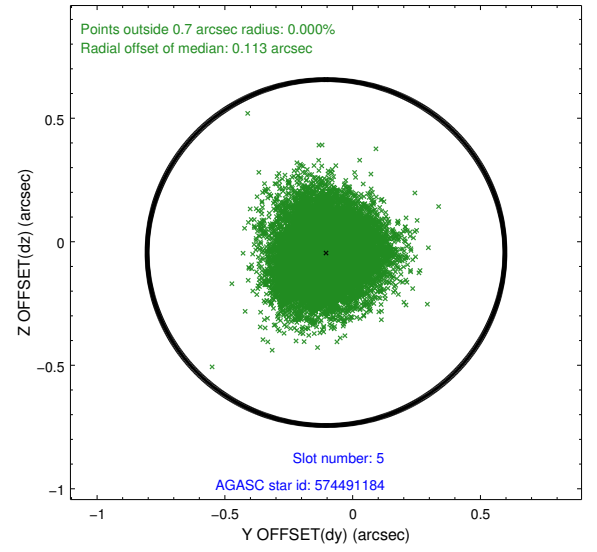
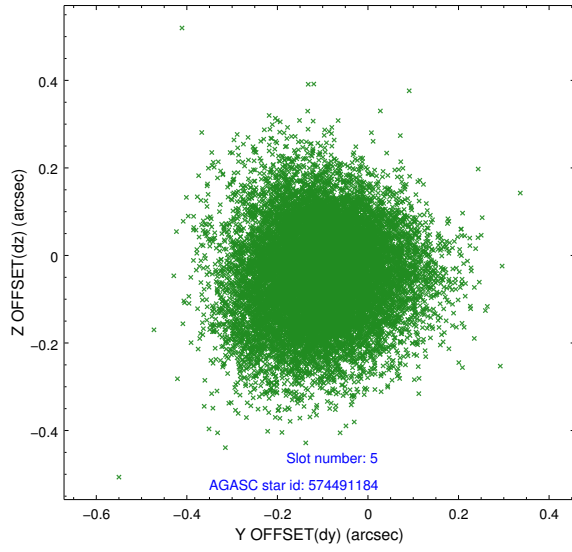
2.4.1 Slot 3



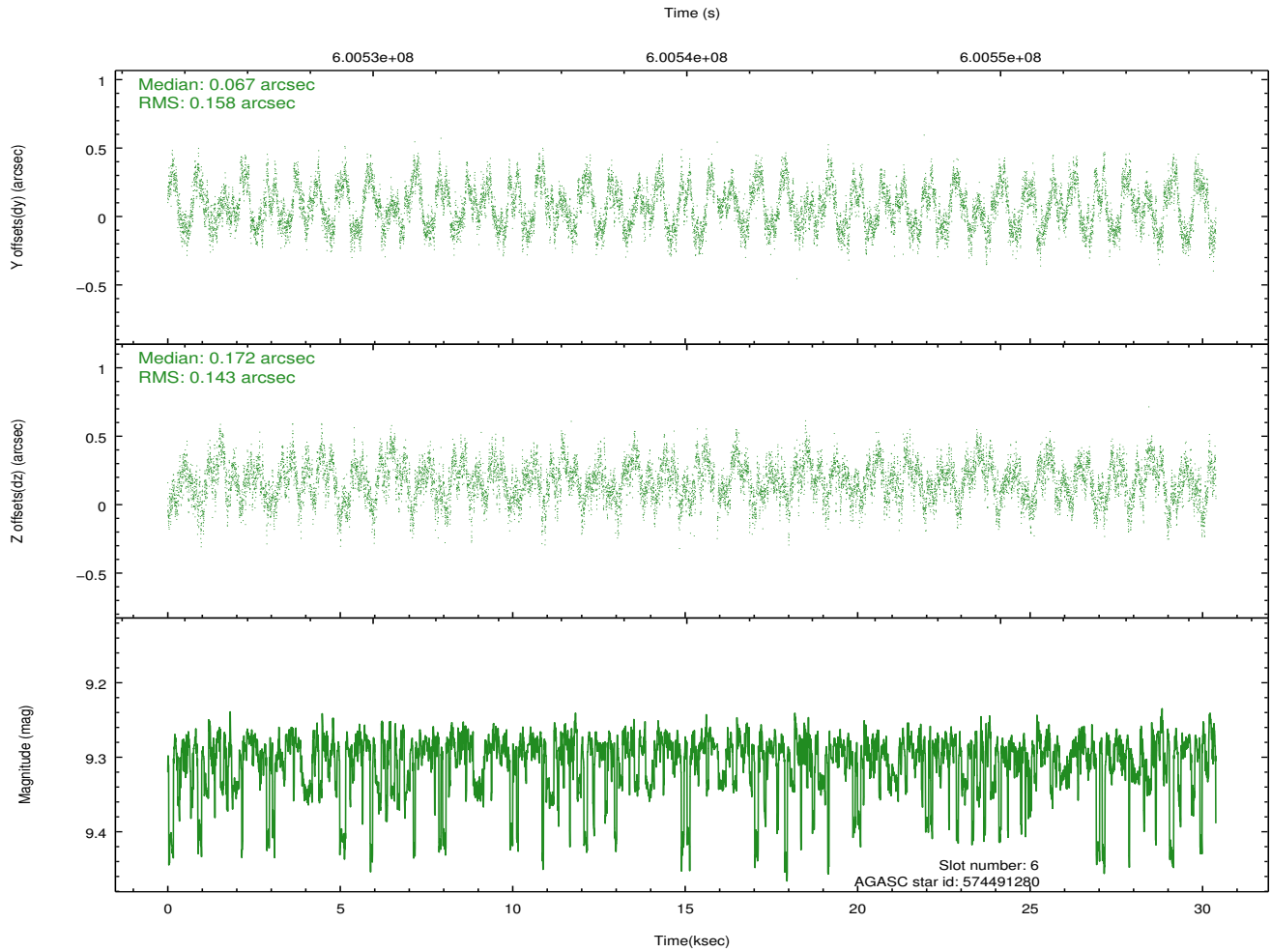
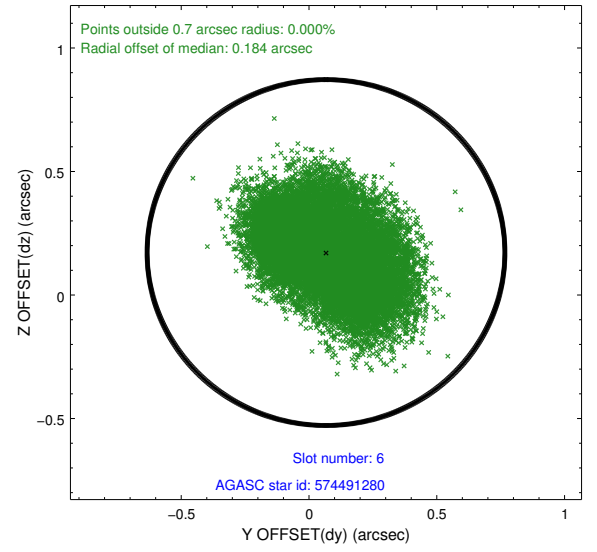
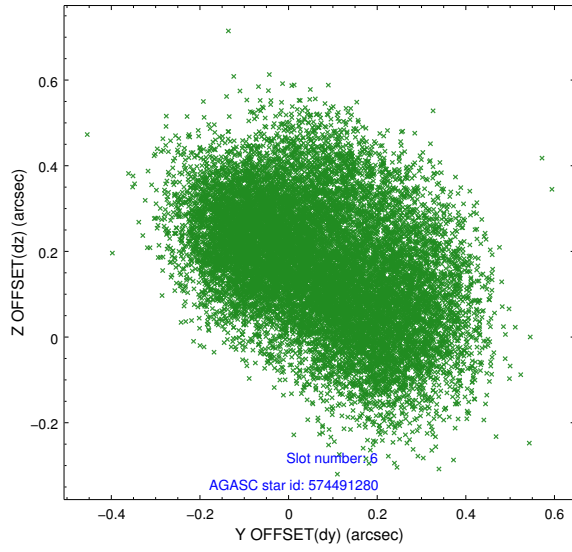
2.4.2 Slot 4



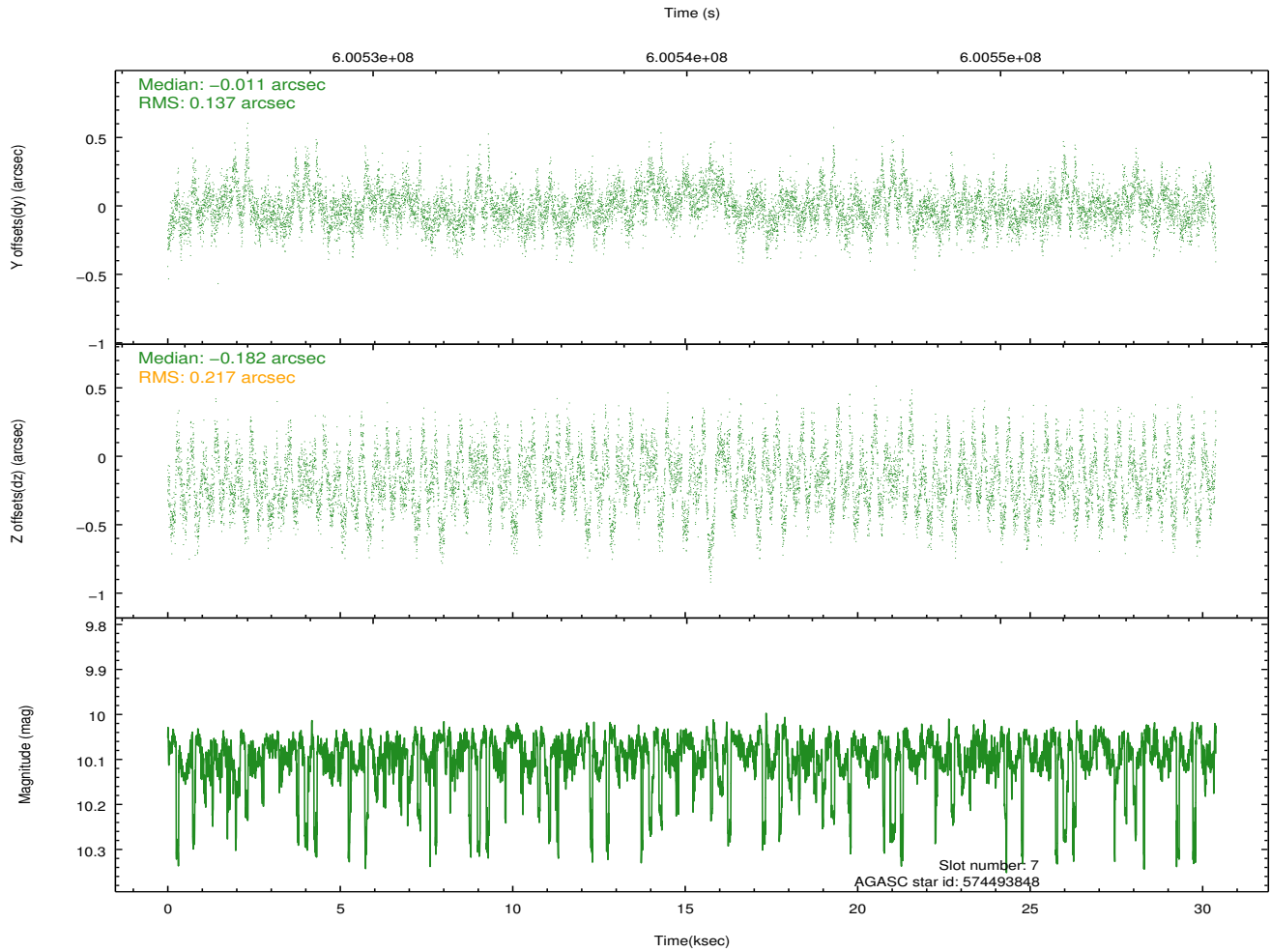
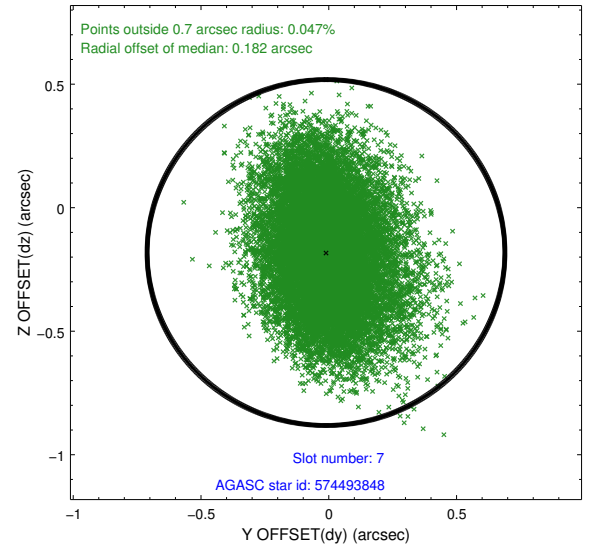
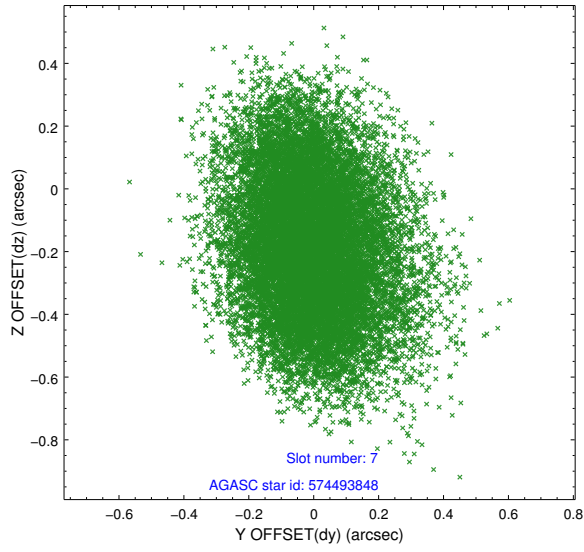
2.4.3 Slot 5



2.4.4 Slot 6

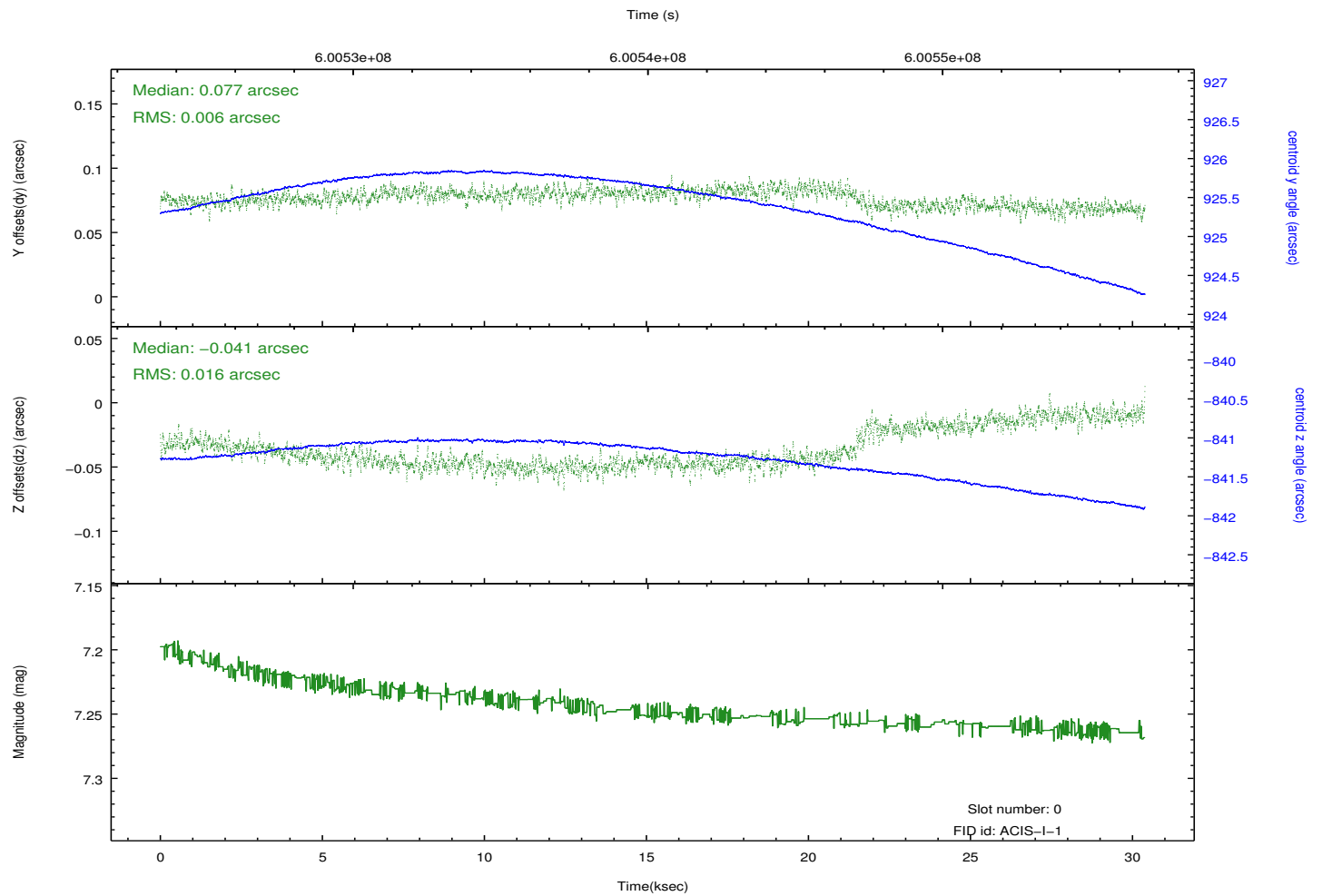
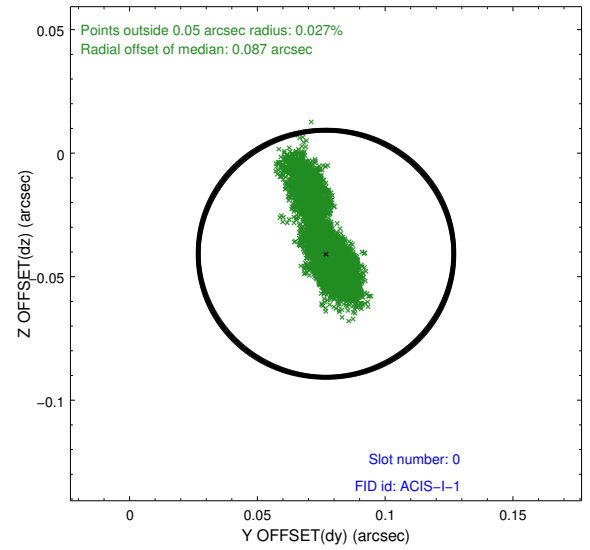
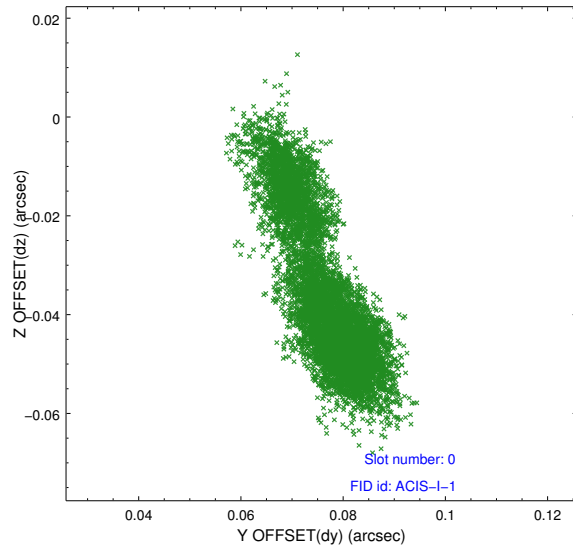


2.4.5 Slot 7

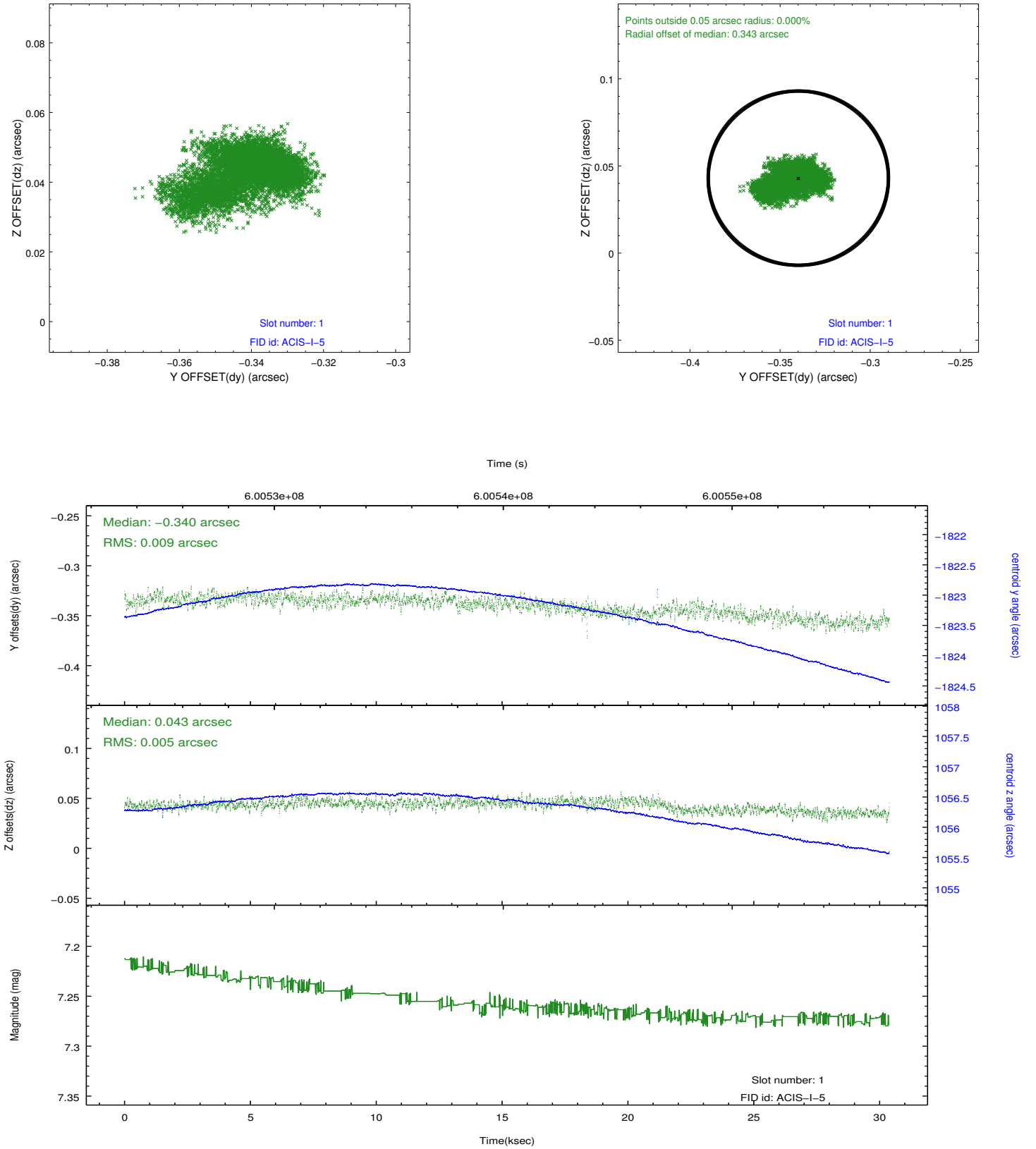


2.5 FID Slots

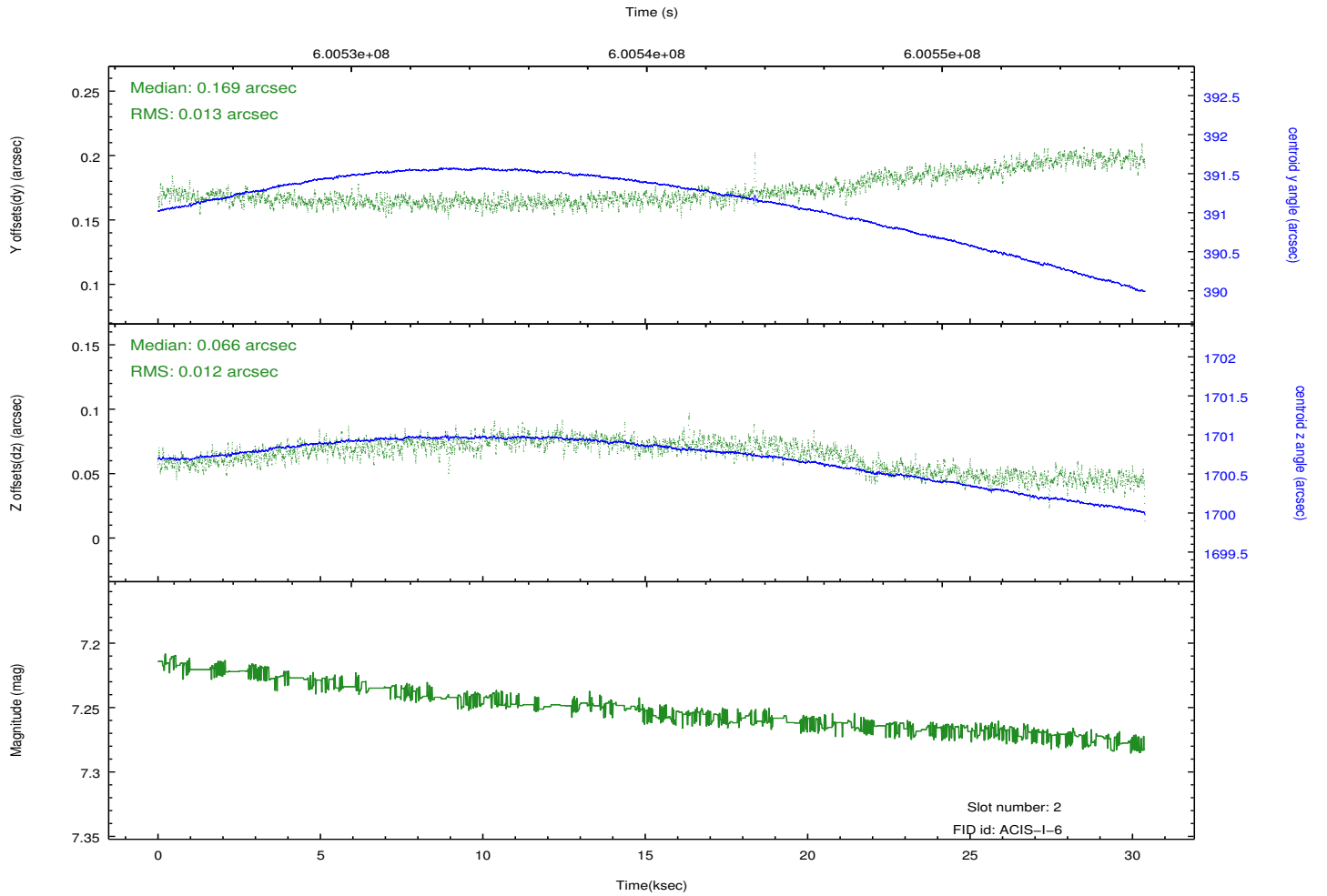
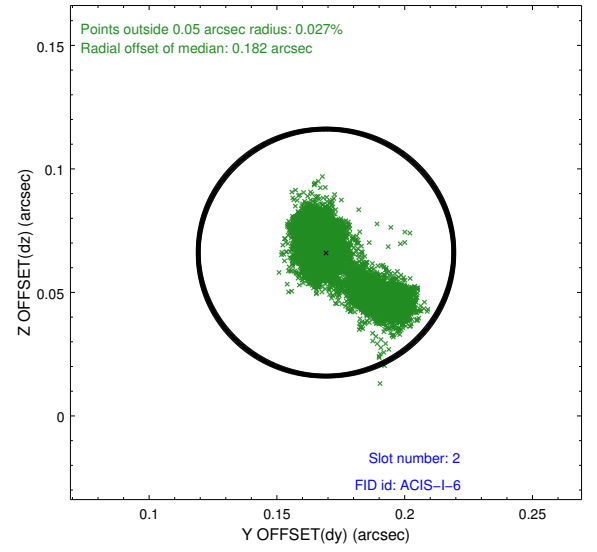
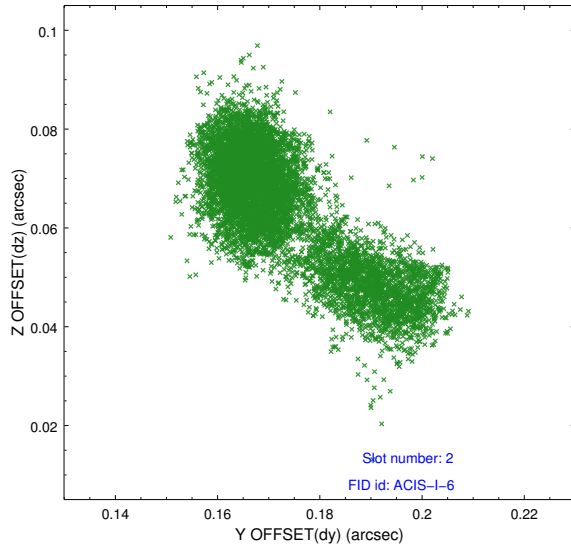
2.5.1 Slot 0



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)	2017.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.053745051622

A.2 Comments