

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18900 - L2 Version 1
Chandra X-Ray Center

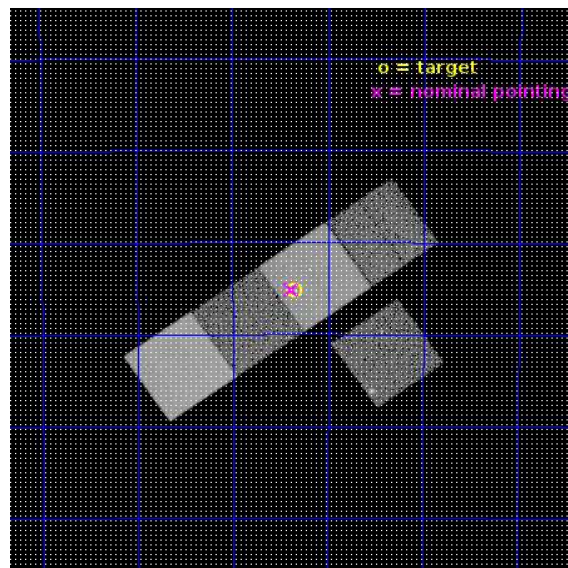
L2 Processing Date : Apr 23 2017

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1 Front

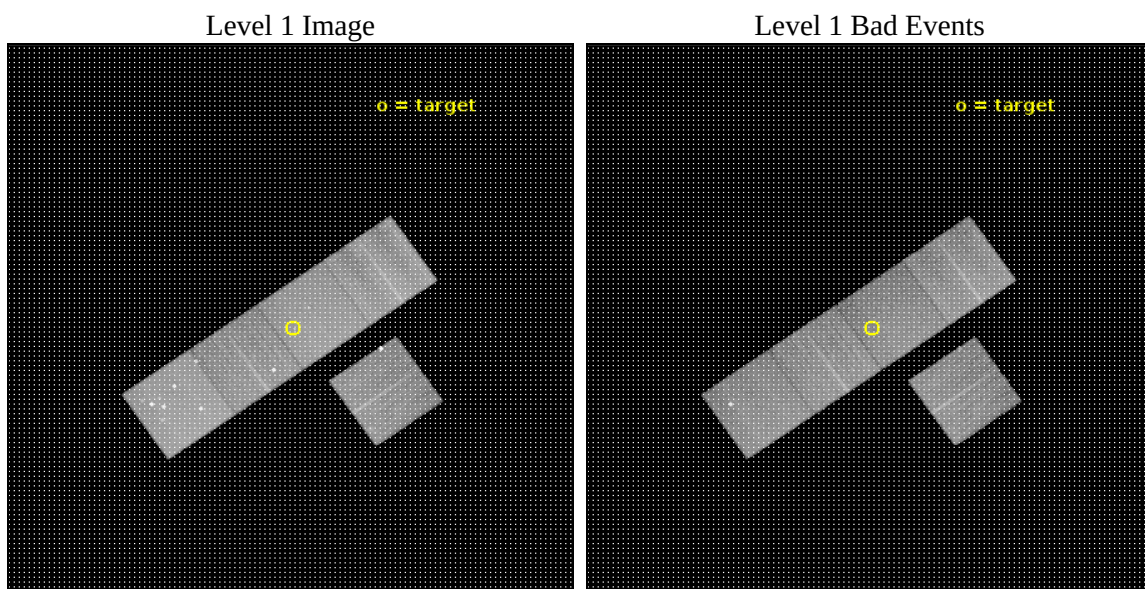
seq_num	201093	Sequence number
obs_id	18900	Observation id
title	X-rays from Young Low-Mass Stars: Inhospitable Habitable Zones?	Pr
observer	Joel Kastner	Principal investigator
object	TWA 15AB	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.585833	Observer's specified target RA [deg]
dec_targ	-48.25375	Observer's specified target Dec [deg]
ra_nom	188.59571058802	Nominal RA [deg]
dec_nom	-48.252524325804	Nominal Dec [deg]
roll_nom	325.26771434703	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20385.600156903	Sum of GTIs [s]
livetime	20119.247283193	Livetime [s]
ontime3	20382.459076524	Sum of GTIs [s]
ontime5	20385.600156903	Sum of GTIs [s]
ontime6	20385.600156903	Sum of GTIs [s]
ontime7	20385.600156903	Sum of GTIs [s]
ontime8	20382.459086776	Sum of GTIs [s]
l2events	222021	Number of level 2 events



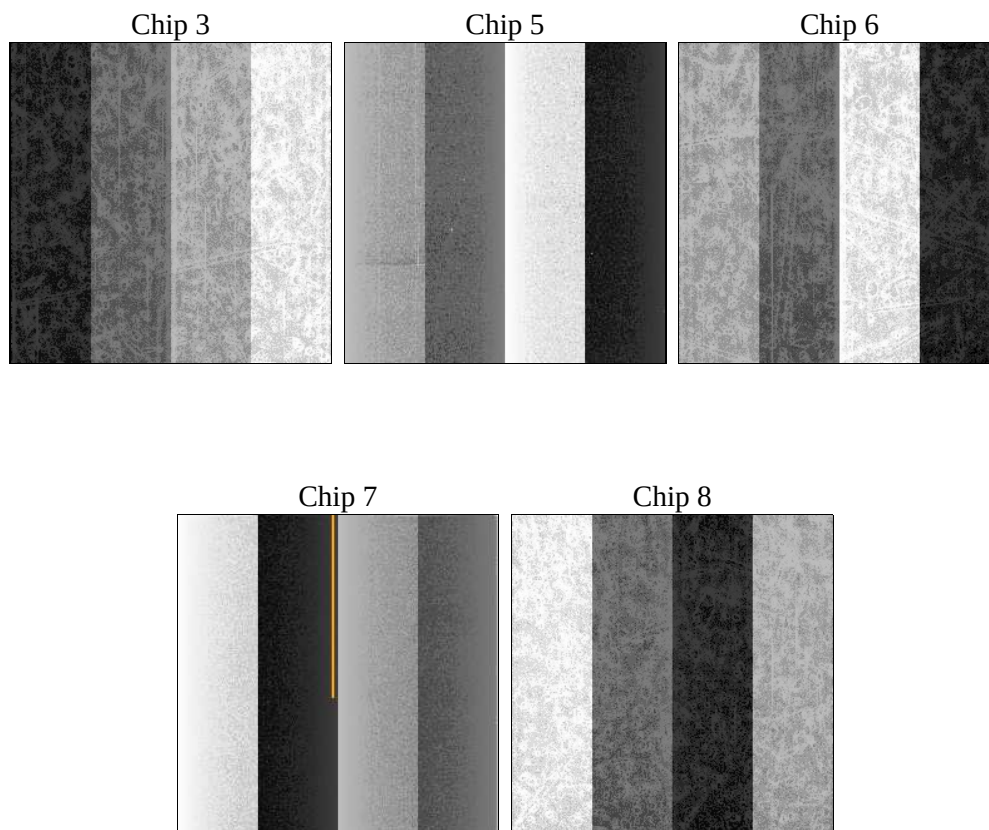
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20336.571000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	20385.600156903	Sum of GTIs [s]
caldsver	4.7.3	 	ontime3	20382.459076524	Sum of GTIs [s]
date	2017-04-23T22:45:37	Date and time of file creation	ontime5	20385.600156903	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	20385.600156903	Sum of GTIs [s]
			ontime7	20385.600156903	Sum of GTIs [s]
			ontime8	20382.459086776	Sum of GTIs [s]
			l1events	918567	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	144444	250796	150696	183345	189286
rejected events	120174	121212	128604	103467	137611
rejected %	83%	48%	85%	56%	72%

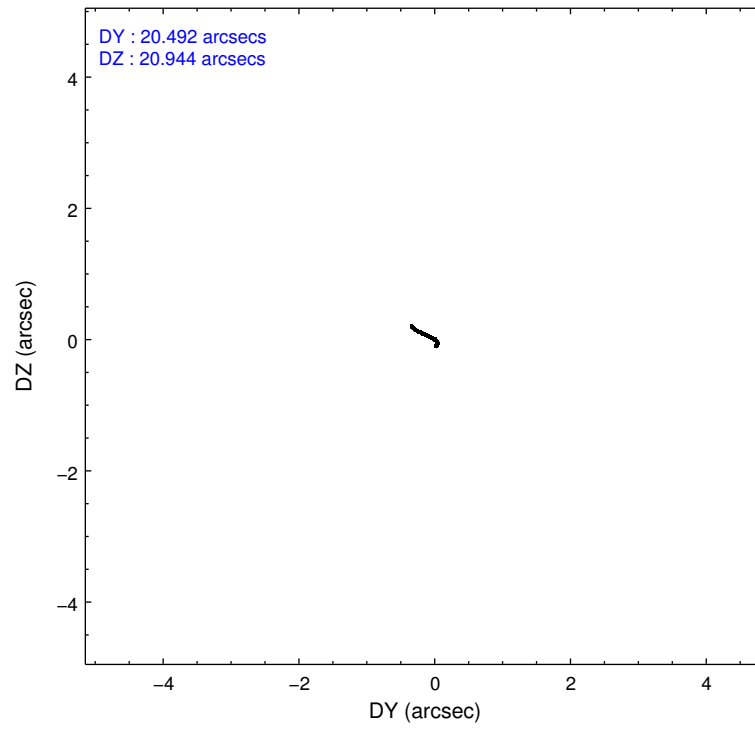
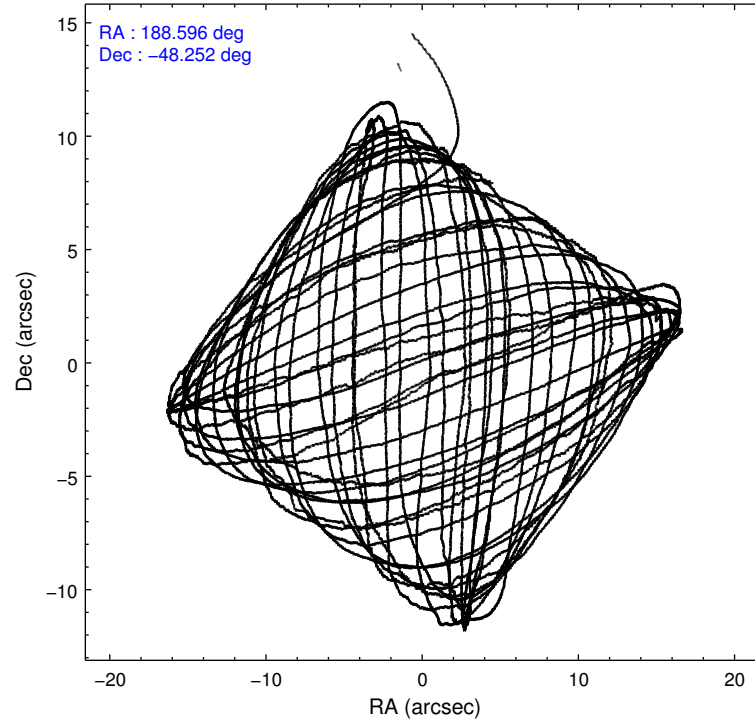
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	11642	26555	11407	7128	14603
	8%	10%	7%	3%	7%
grade 1 events	89	553	108	240	127
	0%	0%	0%	0%	0%
grade 2 events	6179	35522	3738	17325	12236
	4%	14%	2%	9%	6%
grade 3 events	1575	4070	1520	6351	5740
	1%	1%	1%	3%	3%
grade 4 events	1737	4385	1530	6215	5315
	1%	1%	1%	3%	2%
grade 5 events	6613	15322	6641	17653	10027
	4%	6%	4%	9%	5%
grade 6 events	3151	59097	3901	42878	13828
	2%	23%	2%	23%	7%
grade 7 events	113458	105292	121851	85555	127410
	78%	41%	80%	46%	67%

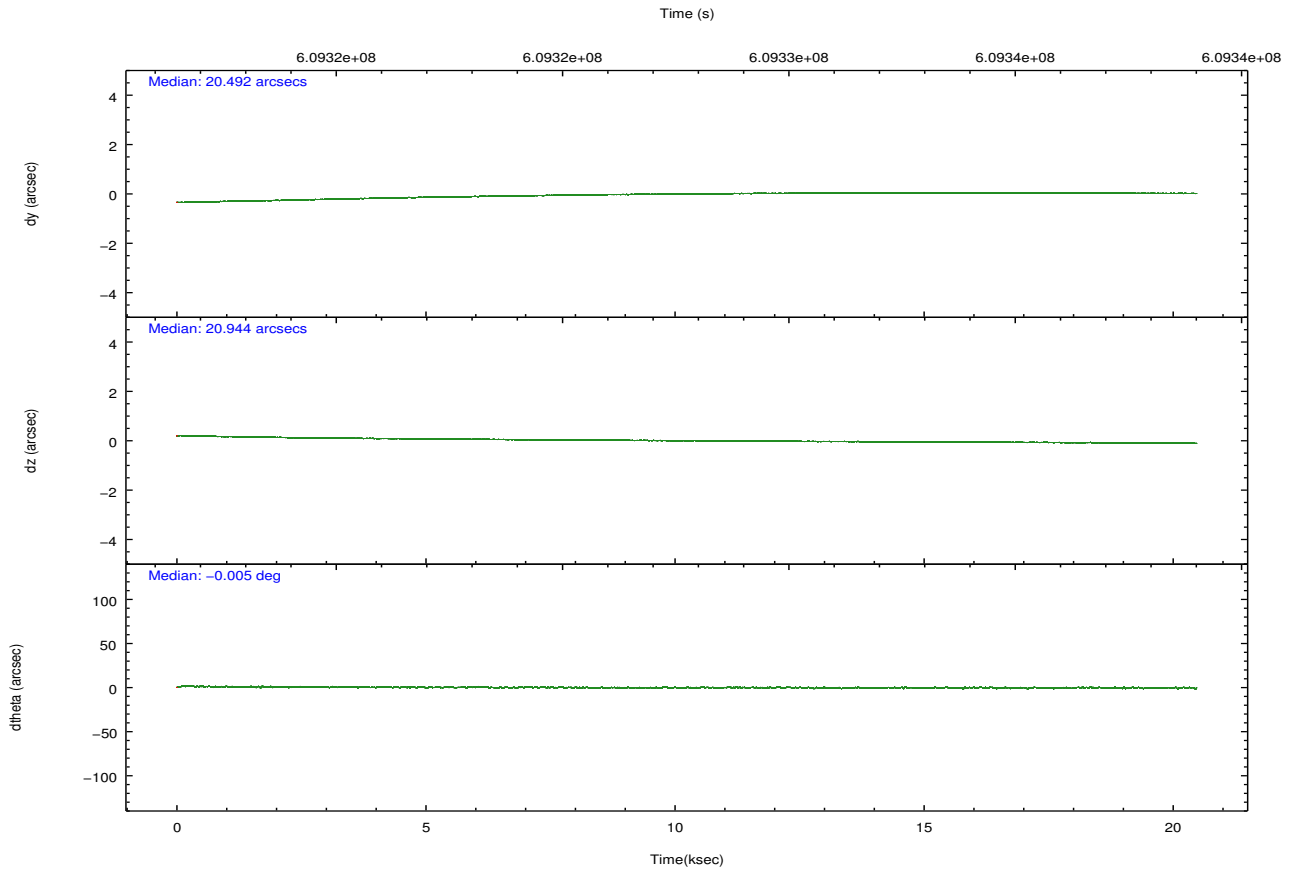
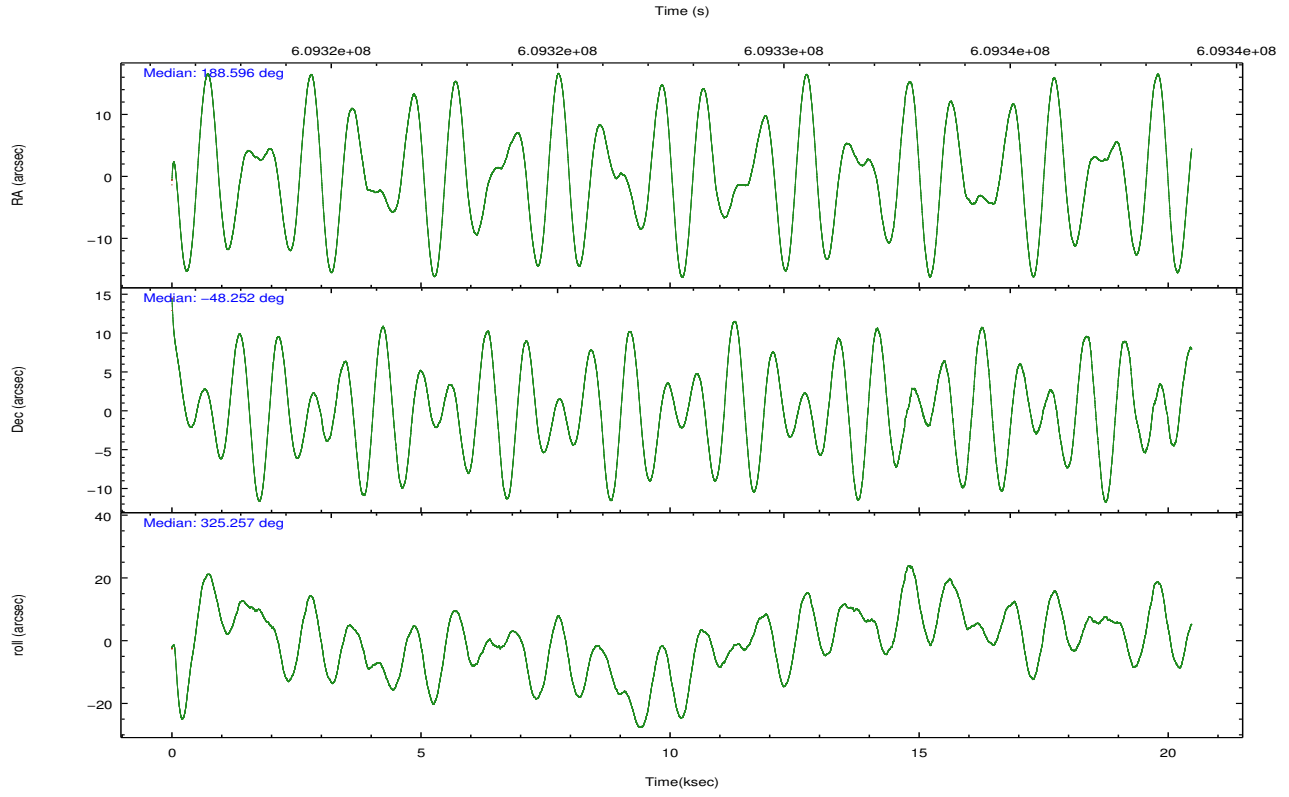
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	188.554642	188.5957105880227
[deg] Pointing Dec	-48.250652	-48.25252432580401
[deg] Pointing Roll	325.080435	325.2677143470304
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	609317661.184000	609316061.2132699
Observation start date	2017-04-23T06:53:12	2017-04-23T06:27:41
[s] Observation end time (MET)	609337997.184000	609338222.73956
Observation end date	2017-04-23T12:32:08	2017-04-23T12:37:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	N
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



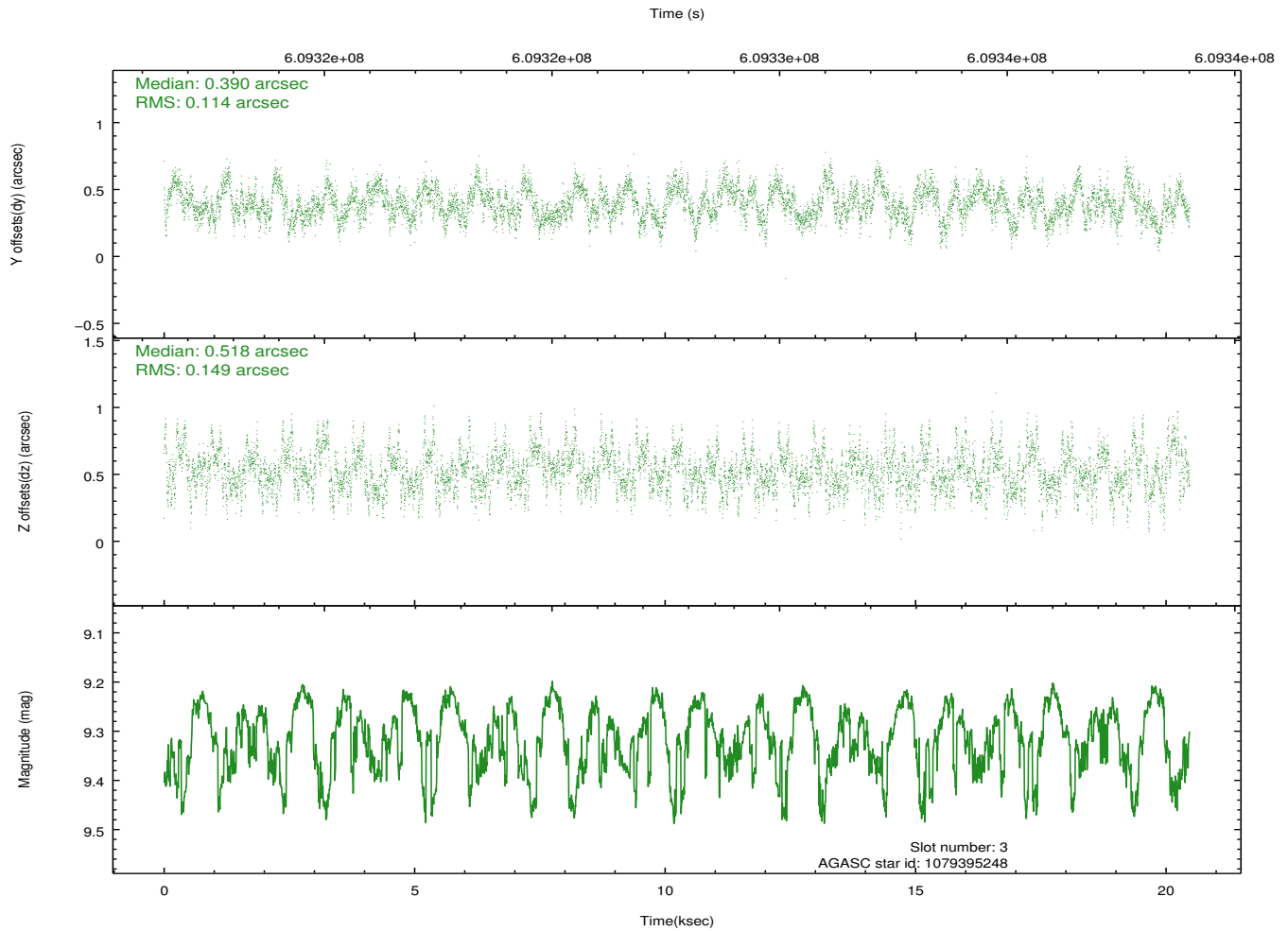
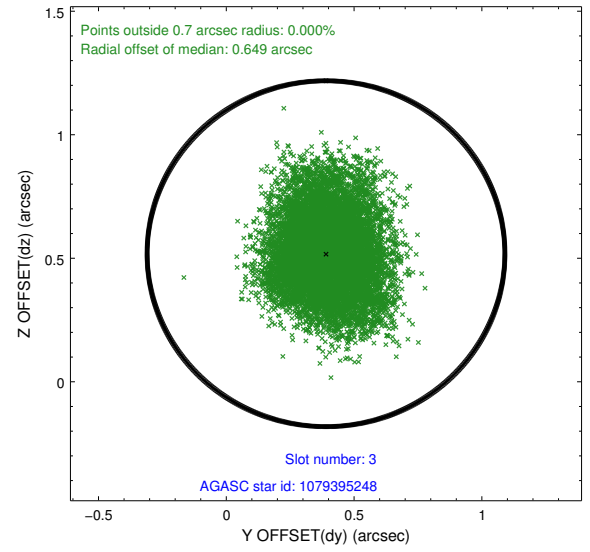
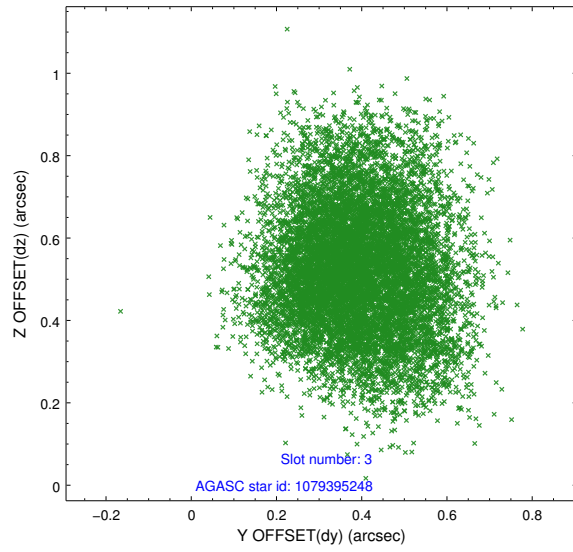


Slot Statistics

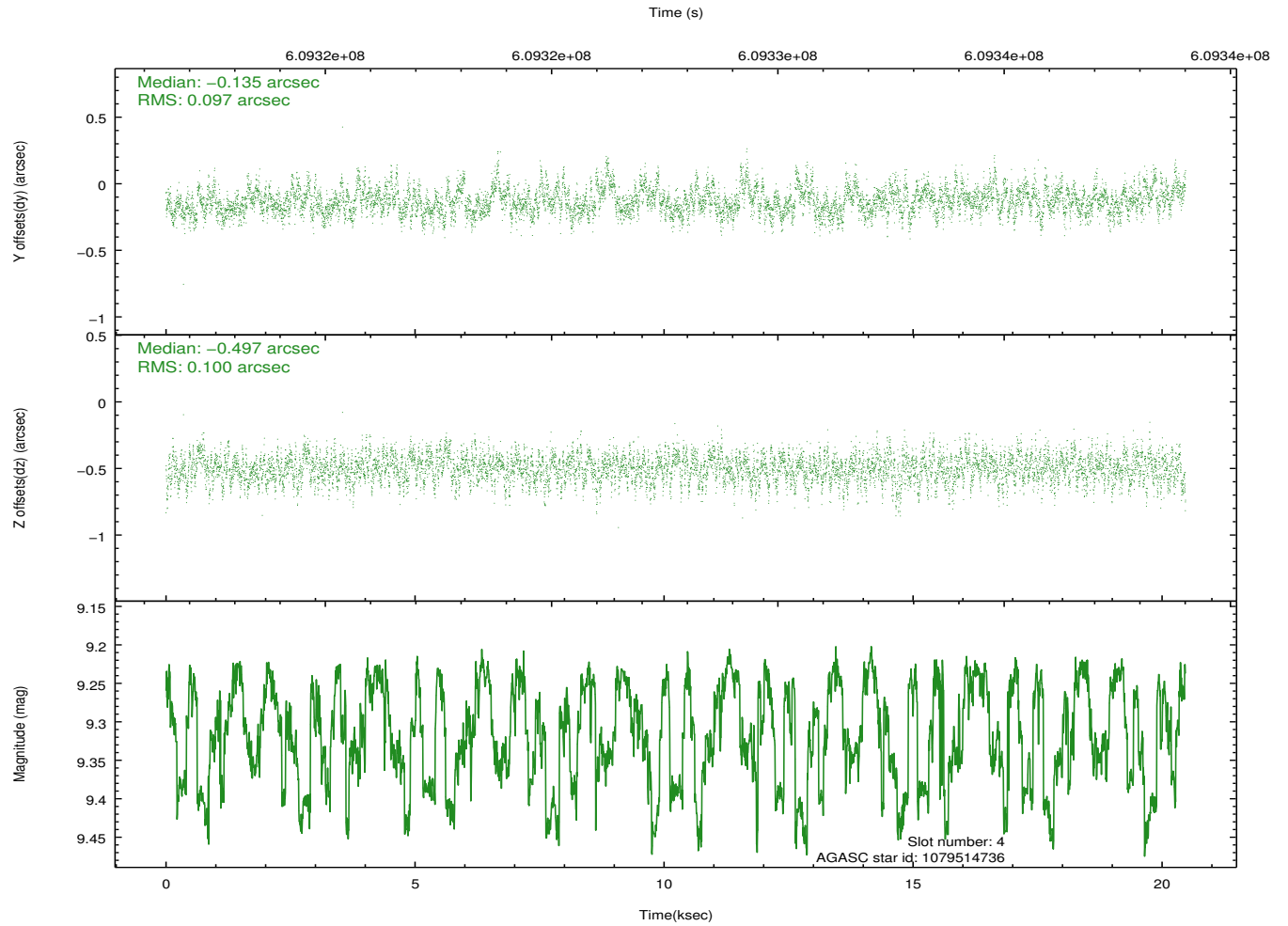
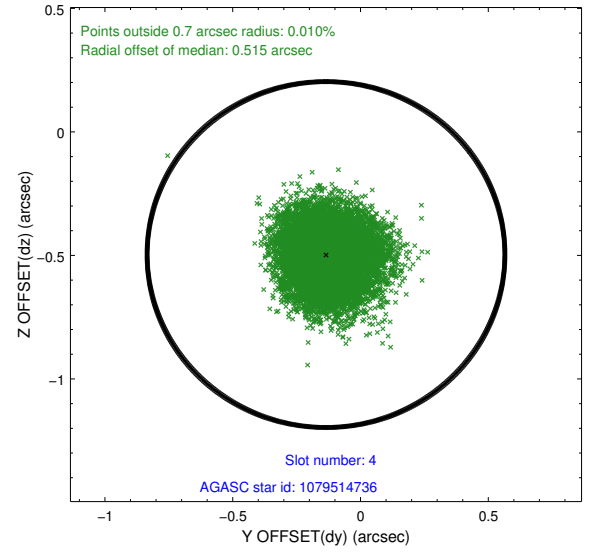
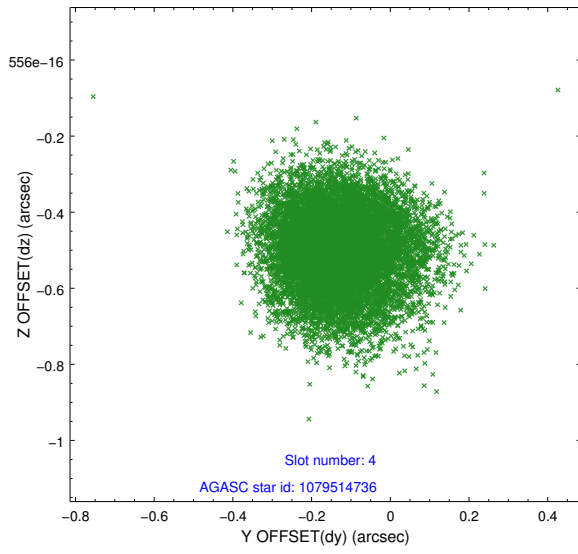
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	4994	-0.271	-0.130	0.007	0.012	0.000000	0.000000	-773.79	-1742.59
1	FID		ACIS-S-4	7.19	4994	0.547	0.166	0.007	0.012	0.000000	0.000000	2140.19	166.05
2	FID		ACIS-S-5	7.17	4993	-0.308	-0.027	0.007	0.012	0.000000	0.000000	-1826.47	159.67
3	GUIDE	used	1079395248	9.32	9976	0.390	0.518	0.199	0.326	187.968102	-48.626263	-365.76	-1911.71
4	GUIDE	used	1079514736	9.32	9975	-0.135	-0.497	0.149	0.236	189.211763	-48.254863	1304.48	883.09
5	GUIDE	used	1079908336	9.24	9974	-0.141	0.551	0.183	0.297	188.418791	-48.904694	1085.57	-2114.19
6	GUIDE	used	1080033408	9.76	9970	0.076	0.014	0.230	0.354	188.795972	-48.760084	1520.63	-1176.97
7	GUIDE	used	1079518048	8.17	9981	-0.194	-0.580	0.161	0.244	189.632887	-47.942849	1508.52	2381.54

2.4 Star Slots

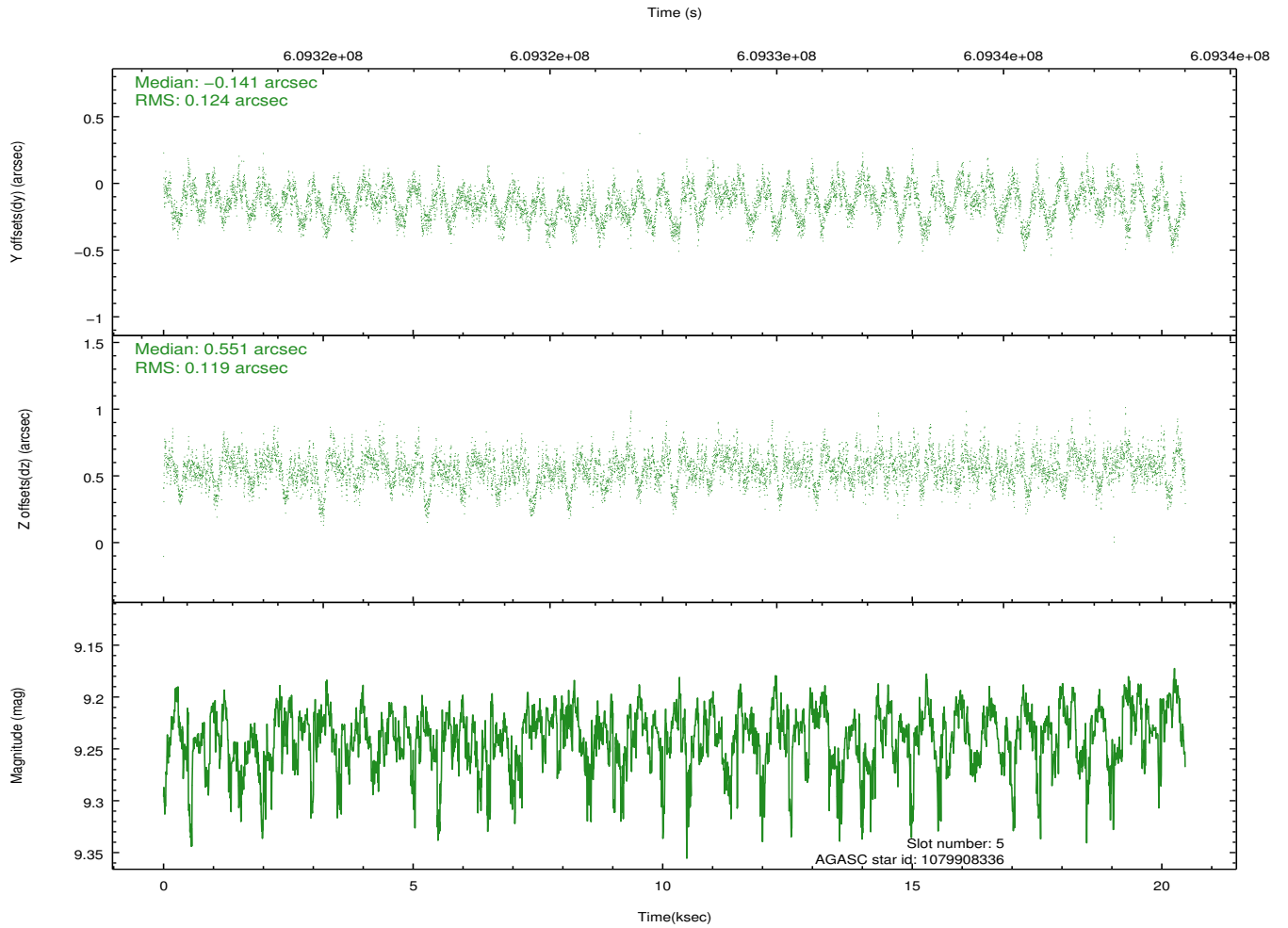
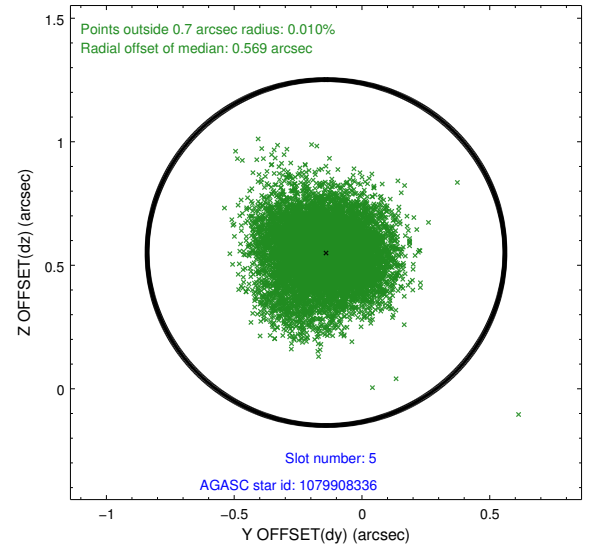
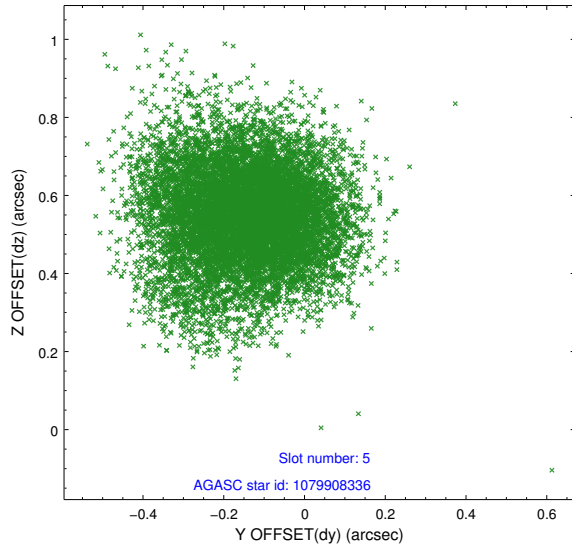
2.4.1 Slot 3



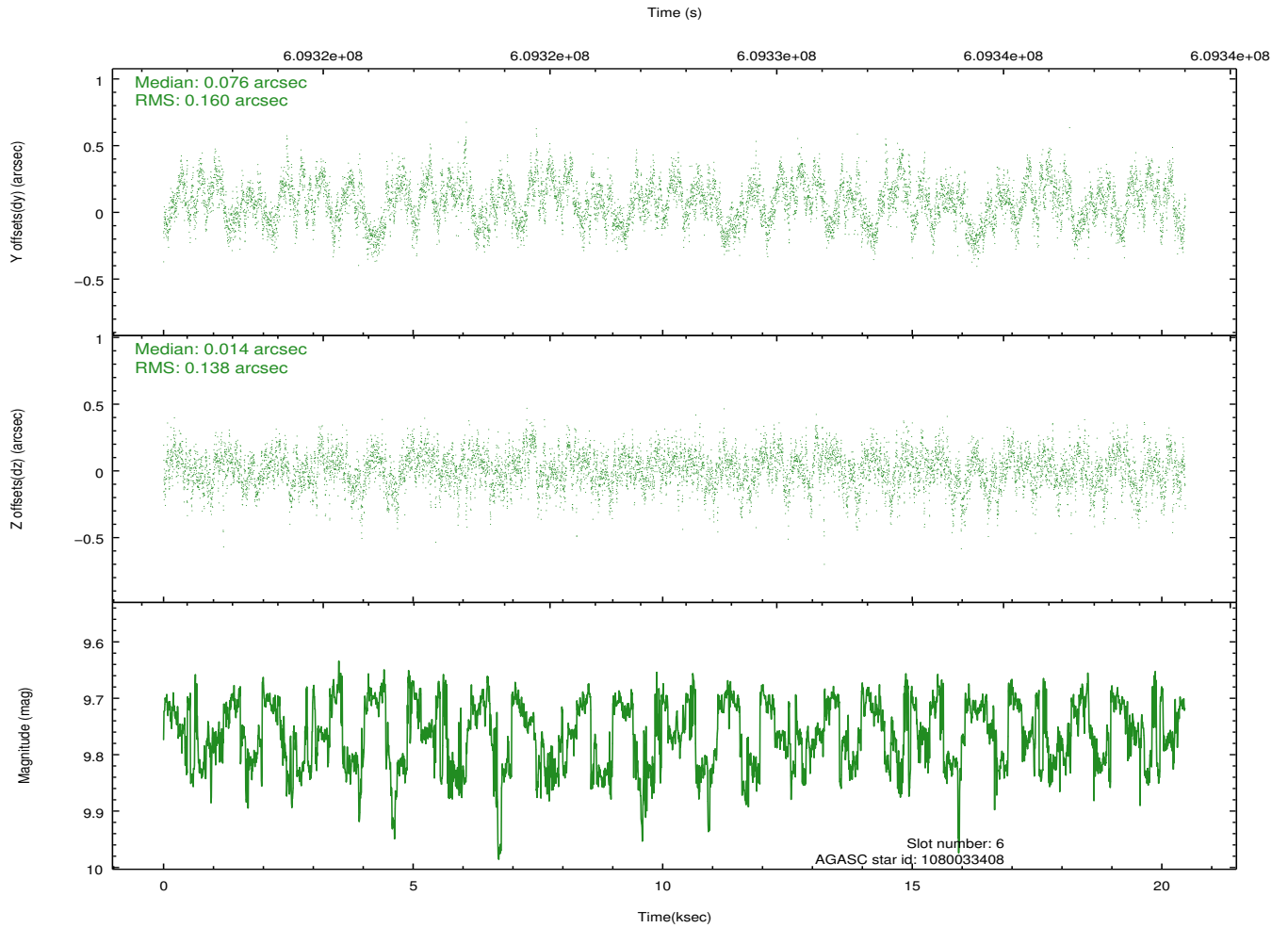
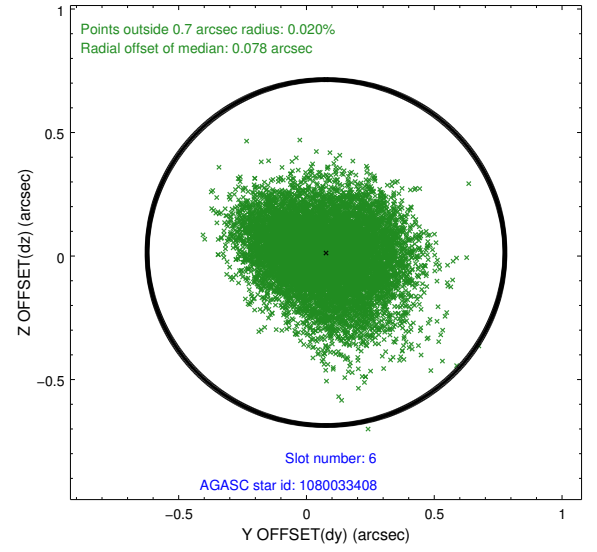
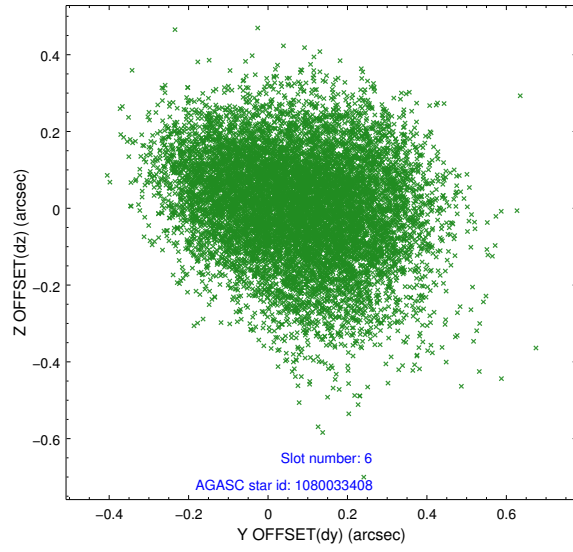
2.4.2 Slot 4



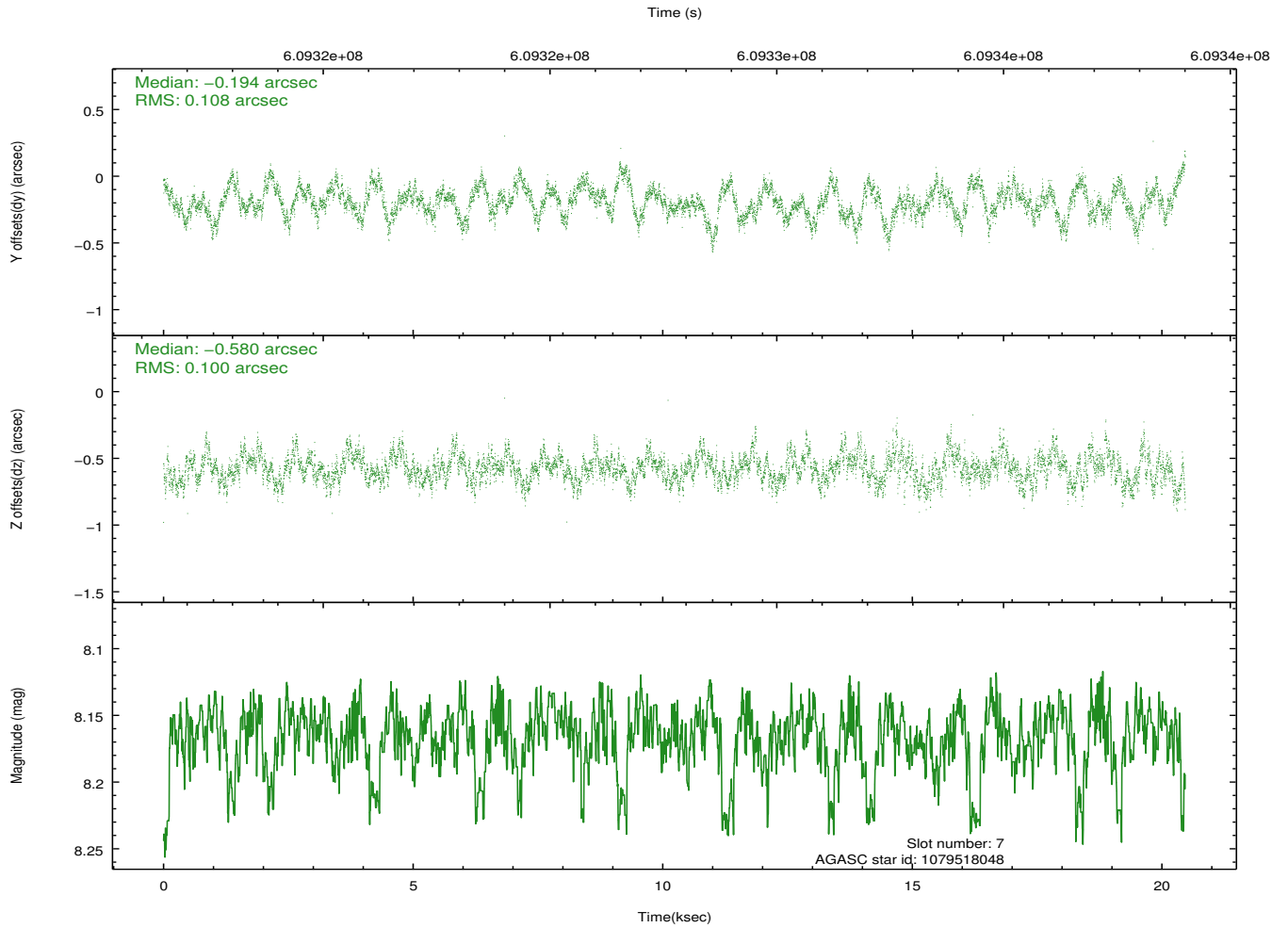
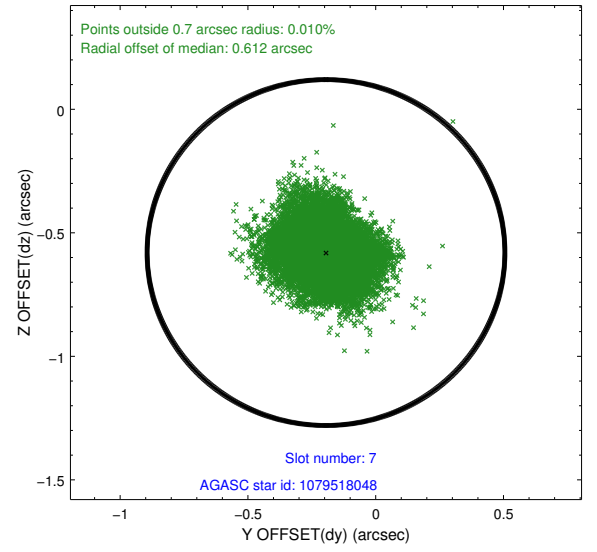
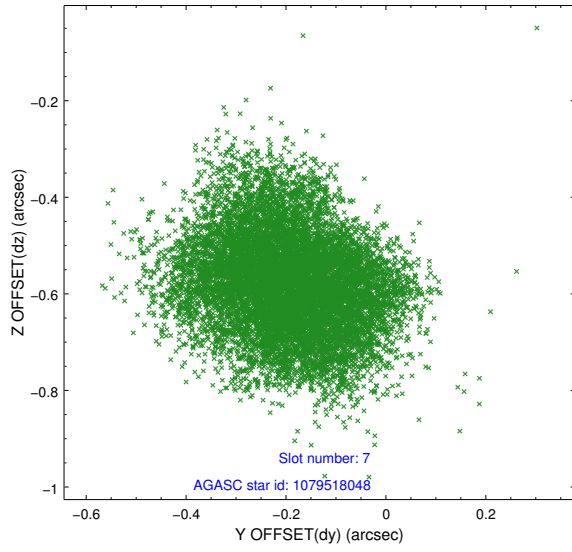
2.4.3 Slot 5



2.4.4 Slot 6

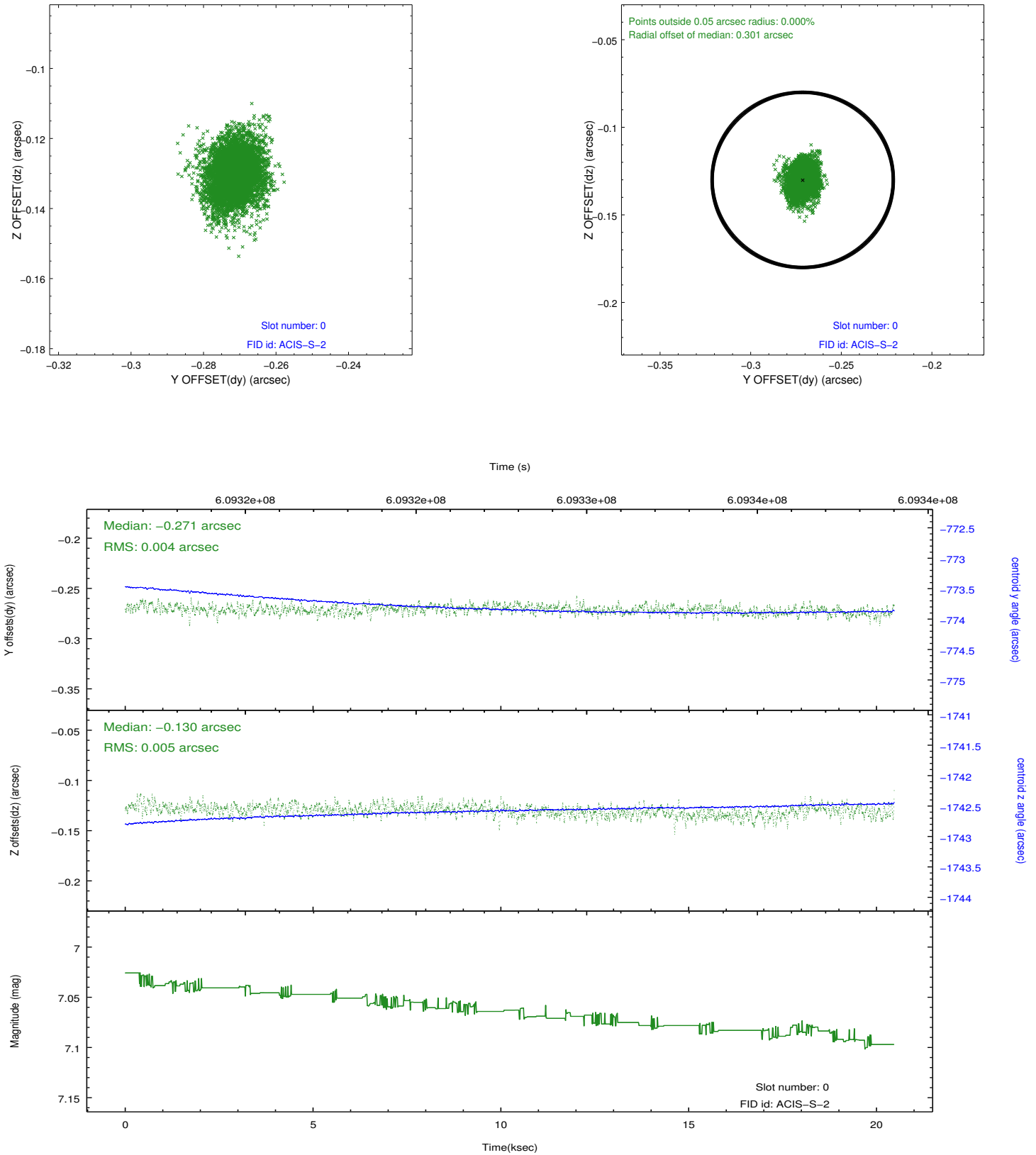


2.4.5 Slot 7

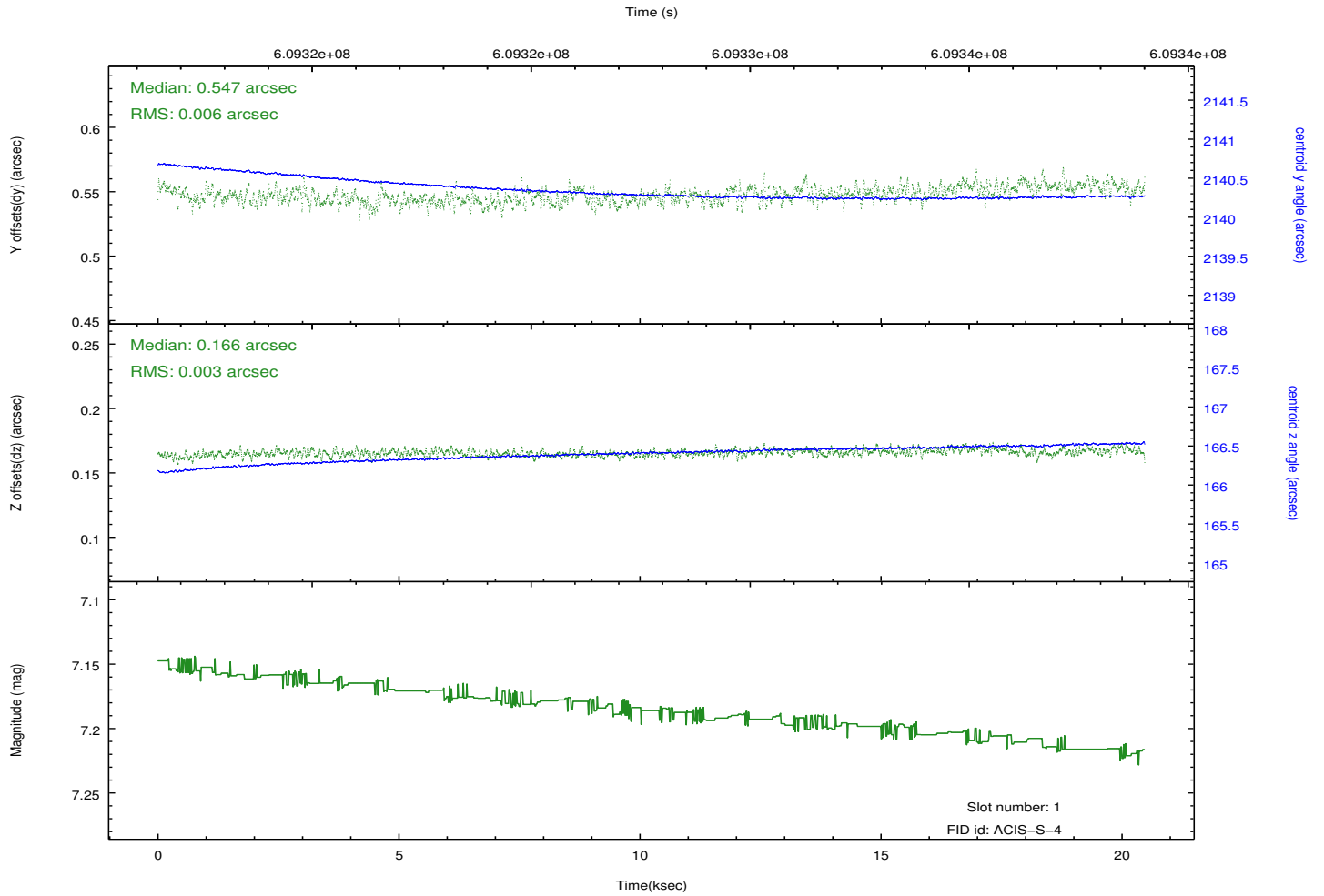
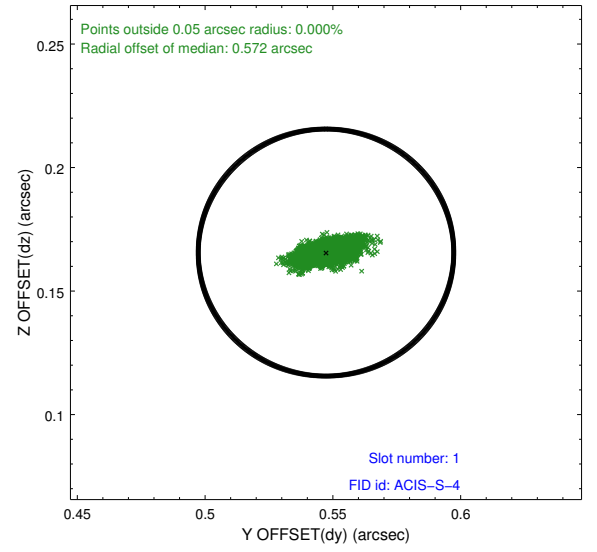
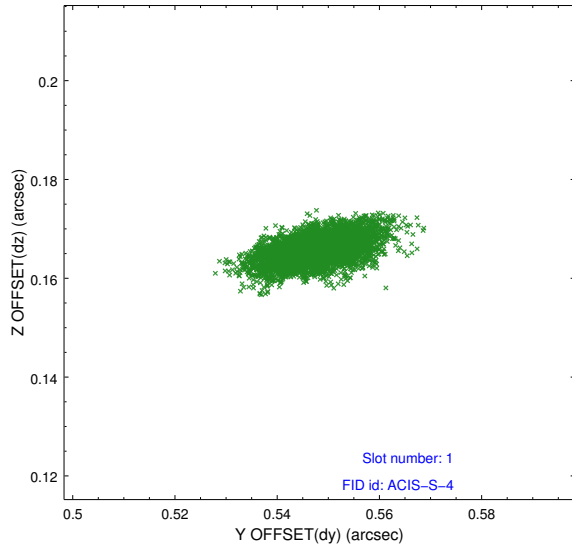


2.5 FID Slots

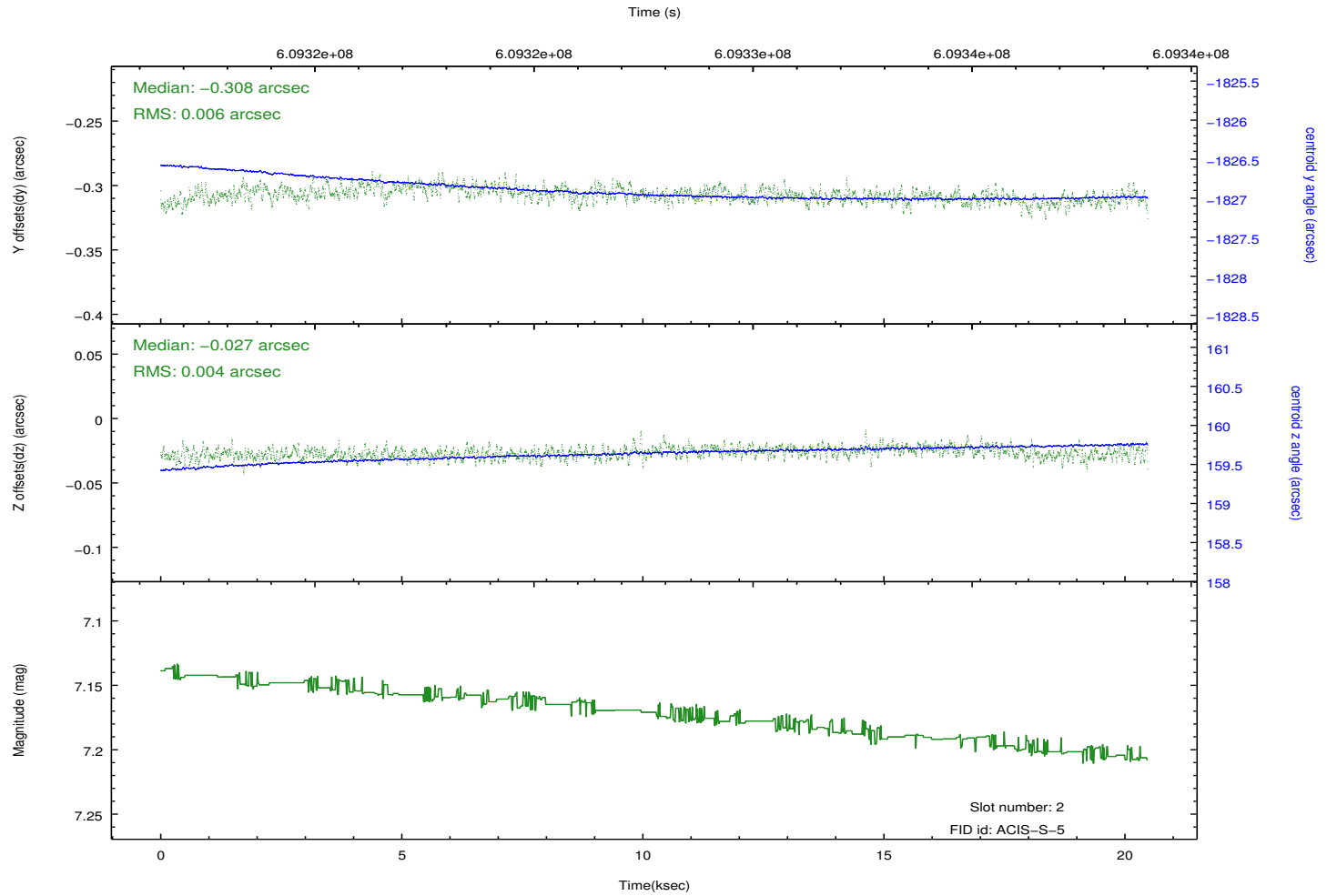
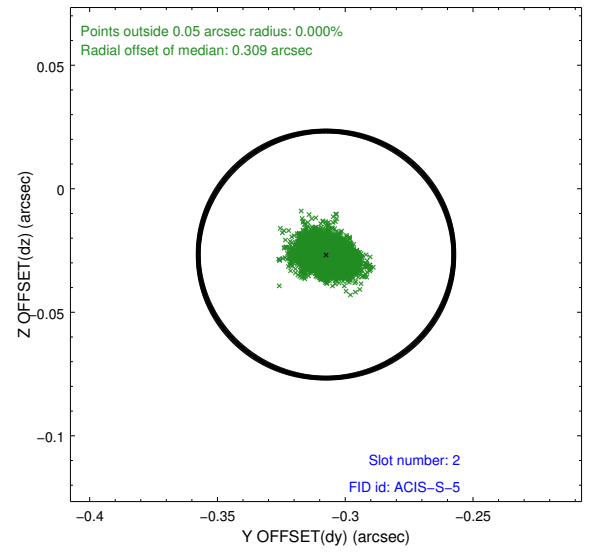
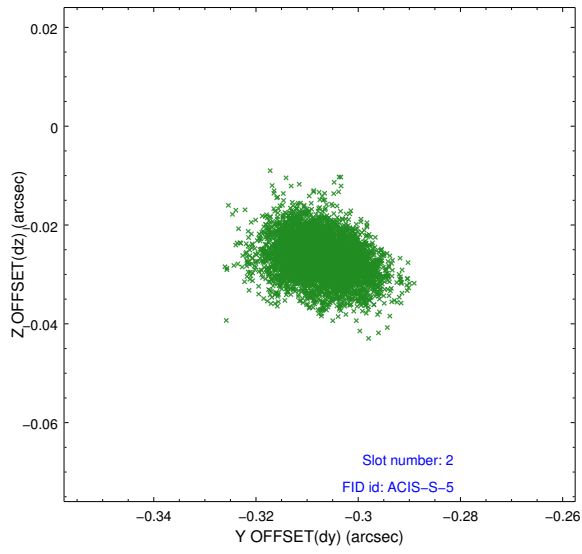
2.5.1 Slot 0



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)	2017.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.385600156903

A.2 Comments