

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22883 - L2 Version 1
Chandra X-Ray Center

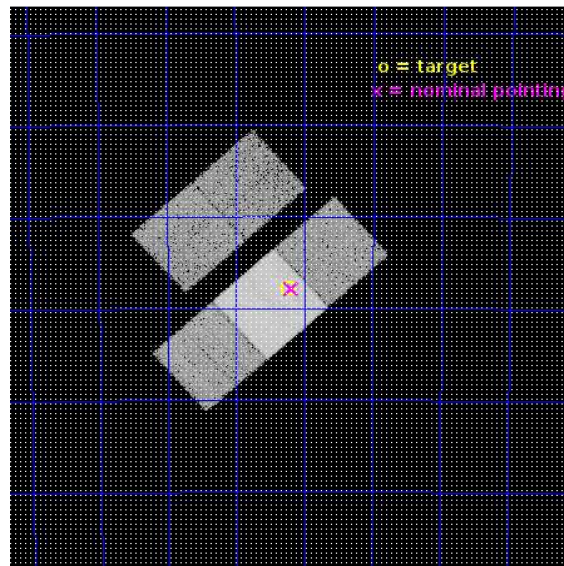
L2 Processing Date : Oct 24 2019

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1 Front

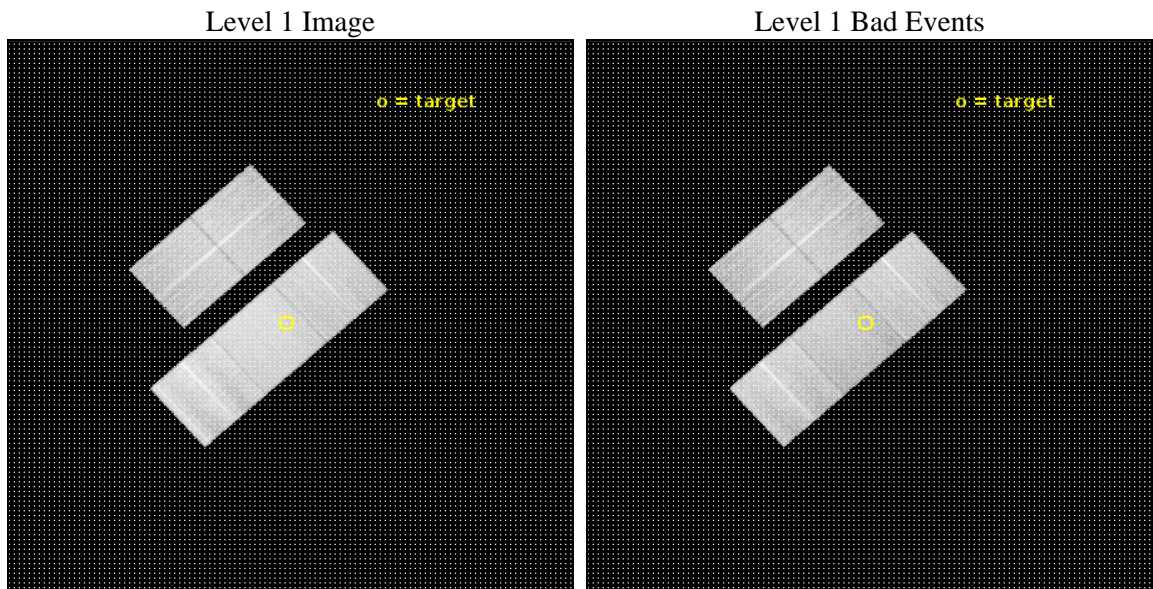
seq_num	503150	Sequence number
obs_id	22883	Observation id
title	Evolution of the pulsar wind nebula in PSR J1119-6127 post 2016 outburst	Proposal title
observer	Harsha Blumer	Principal investigator
object	PSR J1119-6127	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.809583	Observer's specified target RA [deg]
dec_targ	-61.46375	Observer's specified target Dec [deg]
ra_nom	169.79726389632	Nominal RA [deg]
dec_nom	-61.464558710006	Nominal Dec [deg]
roll_nom	138.14581408133	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18054.400138974	Sum of GTIs [s]
livetime	17818.506109702	Livetime [s]
ontime2	18051.259168625	Sum of GTIs [s]
ontime3	18051.259198546	Sum of GTIs [s]
ontime6	18054.400138974	Sum of GTIs [s]
ontime7	18054.400138974	Sum of GTIs [s]
ontime8	18054.400138974	Sum of GTIs [s]
l2events	140352	Number of level 2 events



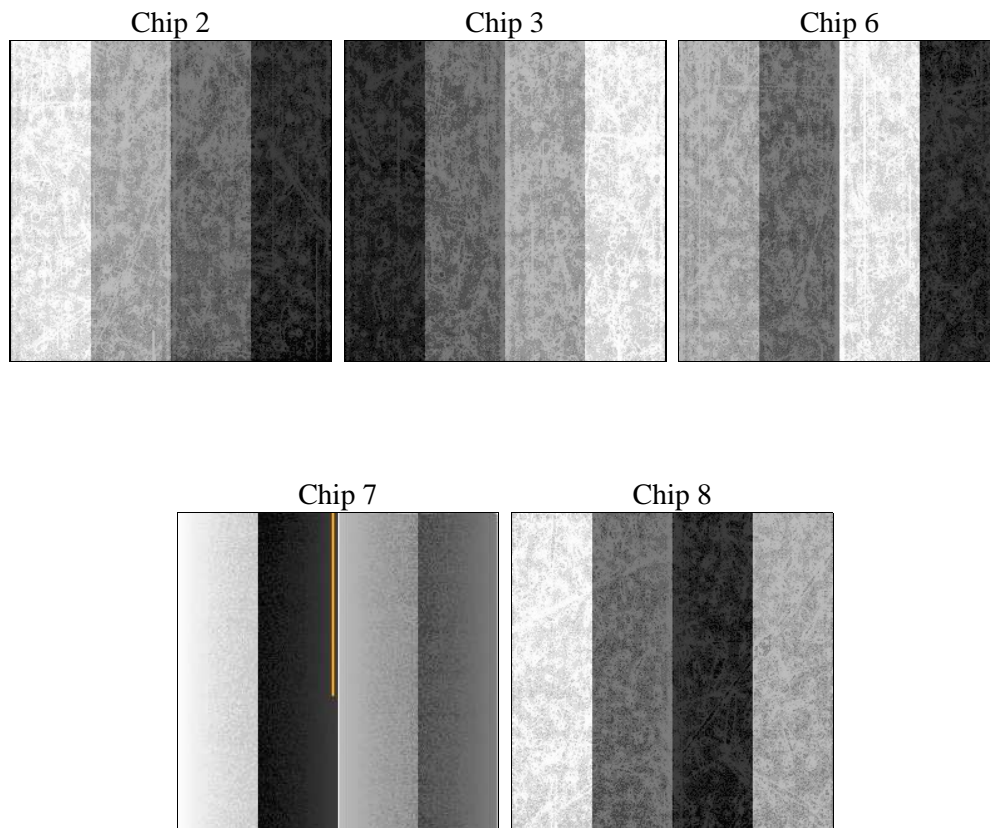
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	18054.400138974	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime2	18051.259168625	Sum of GTIs [s]
date	2019-10-24T21:49:04	Date and time of file creation	ontime3	18051.259198546	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	18054.400138974	Sum of GTIs [s]
			ontime7	18054.400138974	Sum of GTIs [s]
			ontime8	18054.400138974	Sum of GTIs [s]
			l1events	788010	Number of level 1 events

2.1.4 Events

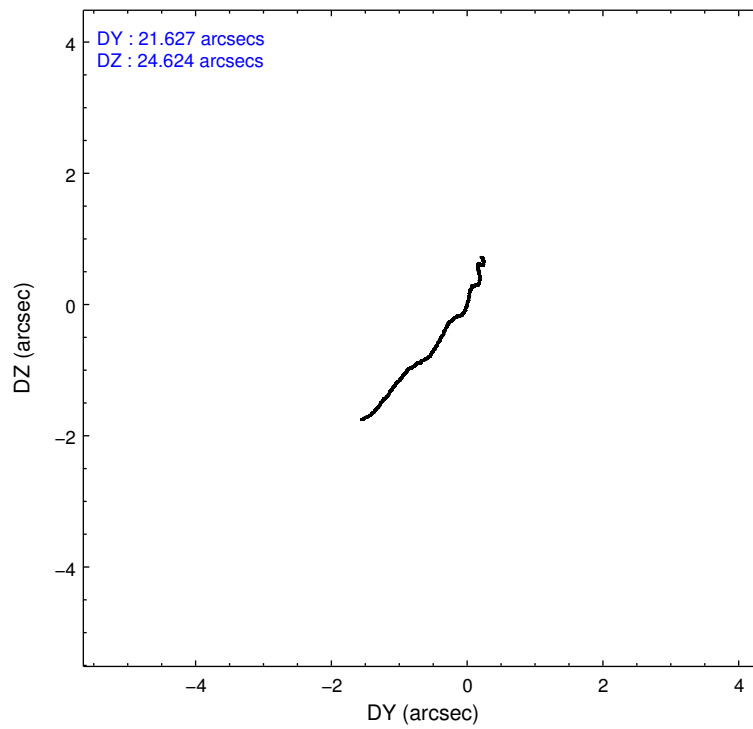
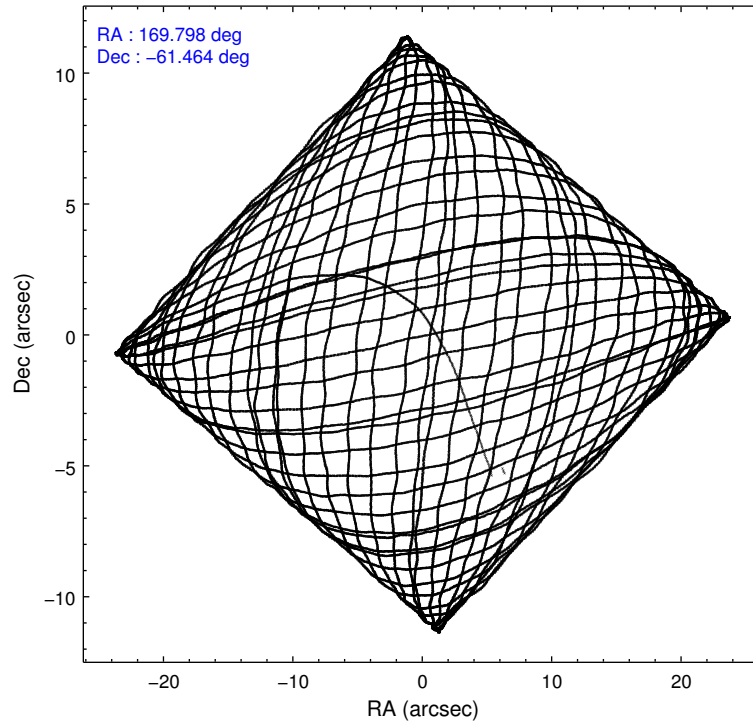
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	133985	131559	148565	184107	189794
rejected events	118435	115863	130308	102917	134814
rejected %	88%	88%	87%	55%	71%

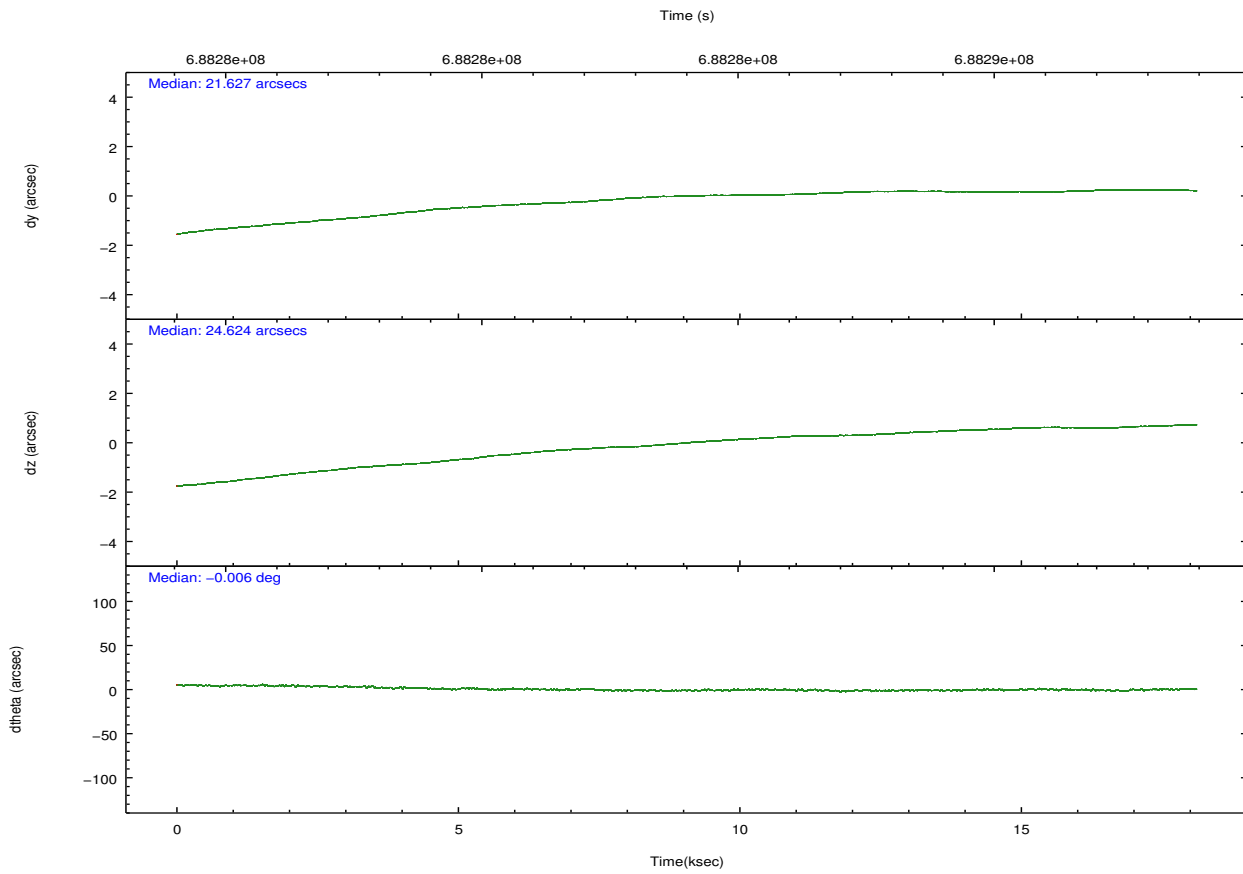
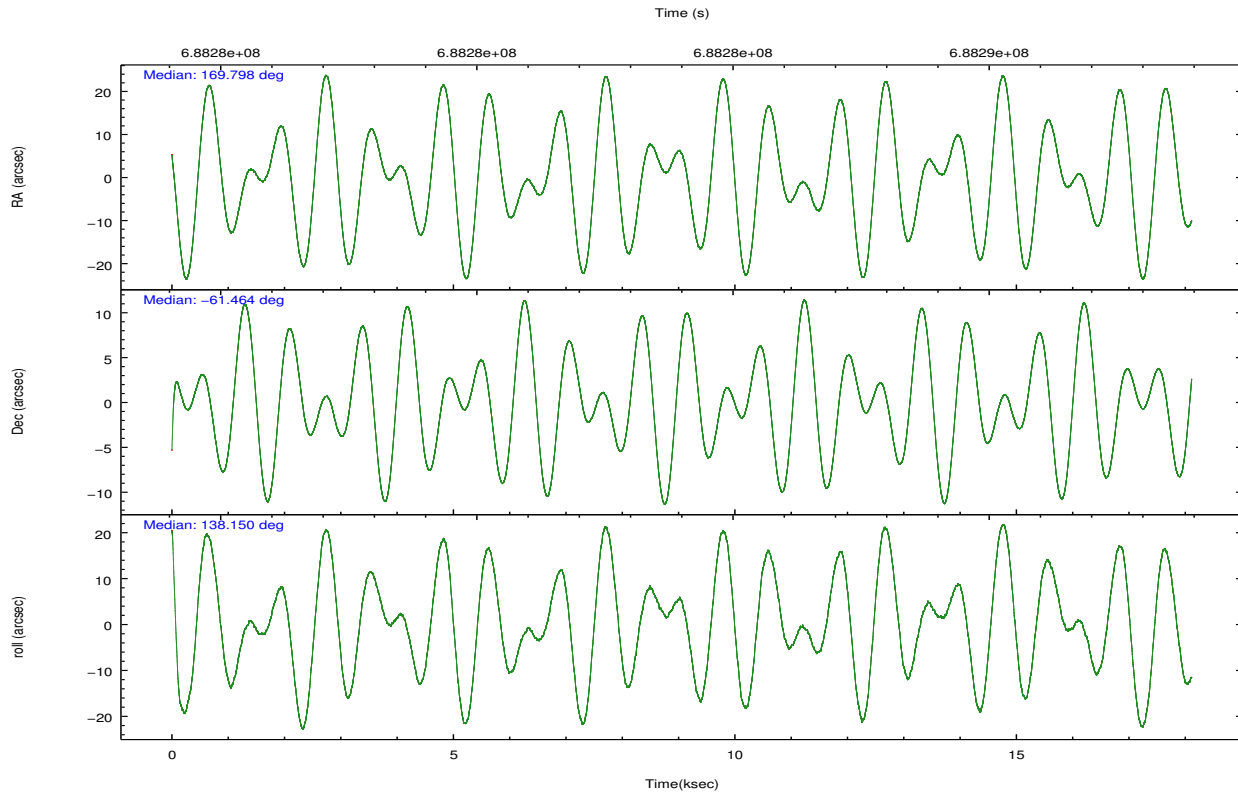
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5599	6089	7029	7146	16313
	4%	4%	4%	3%	8%
grade 1 events	67	91	82	309	160
	0%	0%	0%	0%	0%
grade 2 events	3950	3343	4120	17782	12916
	2%	2%	2%	9%	6%
grade 3 events	1483	1532	1626	6360	5850
	1%	1%	1%	3%	3%
grade 4 events	1538	1580	1685	6263	5627
	1%	1%	1%	3%	2%
grade 5 events	5595	6585	6555	17734	10081
	4%	5%	4%	9%	5%
grade 6 events	2984	3157	3803	43663	14282
	2%	2%	2%	23%	7%
grade 7 events	112769	109182	123665	84850	124565
	84%	82%	83%	46%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	169.853682	169.7972638963209	CCD I2 on	O1	Y
[deg] Pointing Dec	-61.469825	-61.46455871000628	CCD I3 on	O2	Y
[deg] Pointing Roll	138.038742	138.1458140813252	CCD S0 on	N	N
[s] Window start time (MET)	686275269.184000	686275269.184000	CCD S1 on	N	N
[s] Window stop time (MET)	688867269.184000	688867269.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	688275057.184000	688273280.1838599	On-chip summing requested	N	N
Observation start date	2019-10-24T03:29:48	2019-10-24T03:01:20	Subarray requested	NONE	NONE
[s] Observation end time (MET)	688293057.184000	688294427.98514	Alternating exposures requested	N	N
Observation end date	2019-10-24T08:29:48	2019-10-24T08:53:47	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect





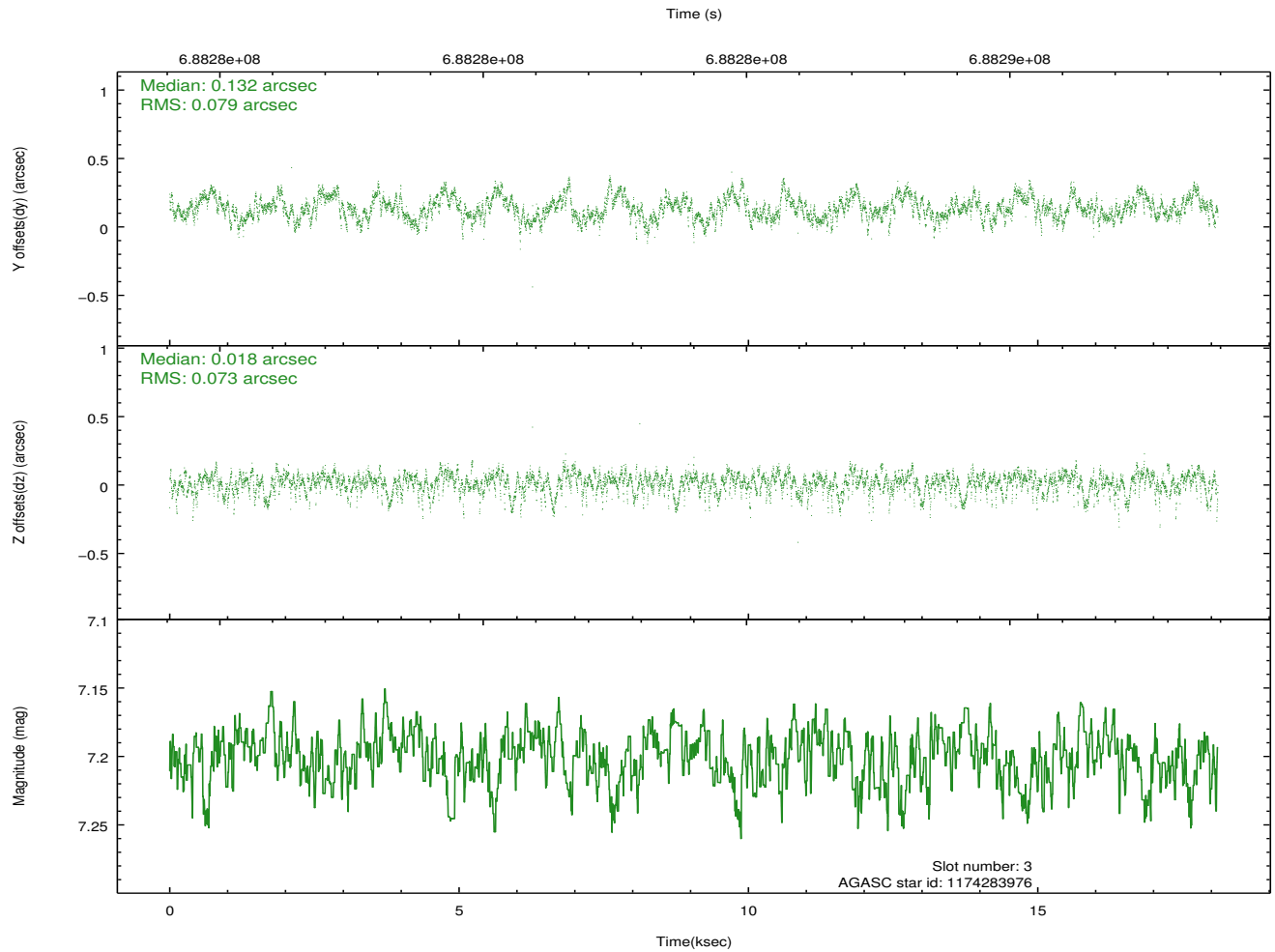
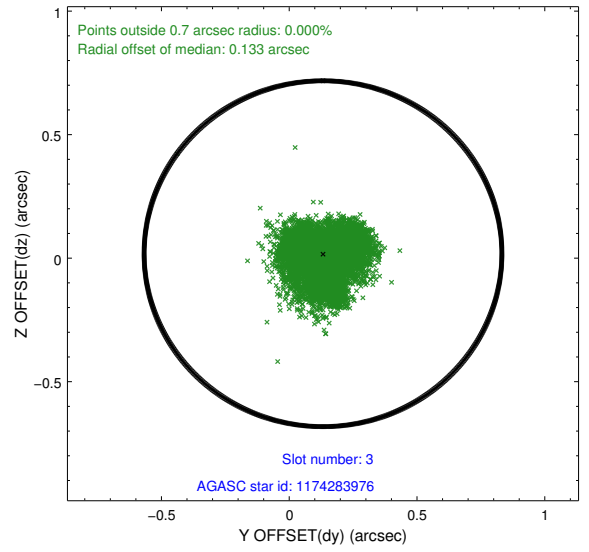
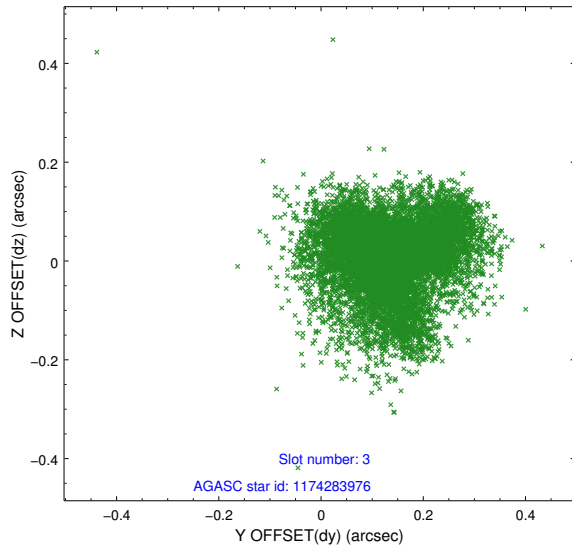
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.06	4419	1.000	-0.170	-0.159	0.041	0.093	0.000000	0.000000	921.37	-1741
1	FID		ACIS-S-4	7.09	4419	1.000	0.322	0.174	0.021	0.055	0.000000	0.000000	2139.36	162
2	FID		ACIS-S-6	7.26	4419	1.000	-0.176	-0.006	0.026	0.040	0.000000	0.000000	387.55	799
3	GUIDE	used	1174283976	7.20	8835	1.000	0.132	0.018	0.116	0.184	170.390254	-61.226219	-104.93	-1269
4	GUIDE	used	1174289064	7.60	8835	1.000	-0.478	-0.368	0.112	0.172	169.403245	-61.635432	172.46	961
5	GUIDE	used	1174290744	8.16	8831	1.000	0.257	0.484	0.111	0.185	171.197974	-61.558775	-1942.99	-1283
6	GUIDE	used	1174293864	7.50	8837	1.000	0.013	-0.082	0.108	0.186	170.089015	-61.097044	593.39	-1270
7	GUIDE	used	1174294448	8.41	8831	1.000	0.076	-0.034	0.124	0.220	169.819774	-60.897022	1423.66	-1493

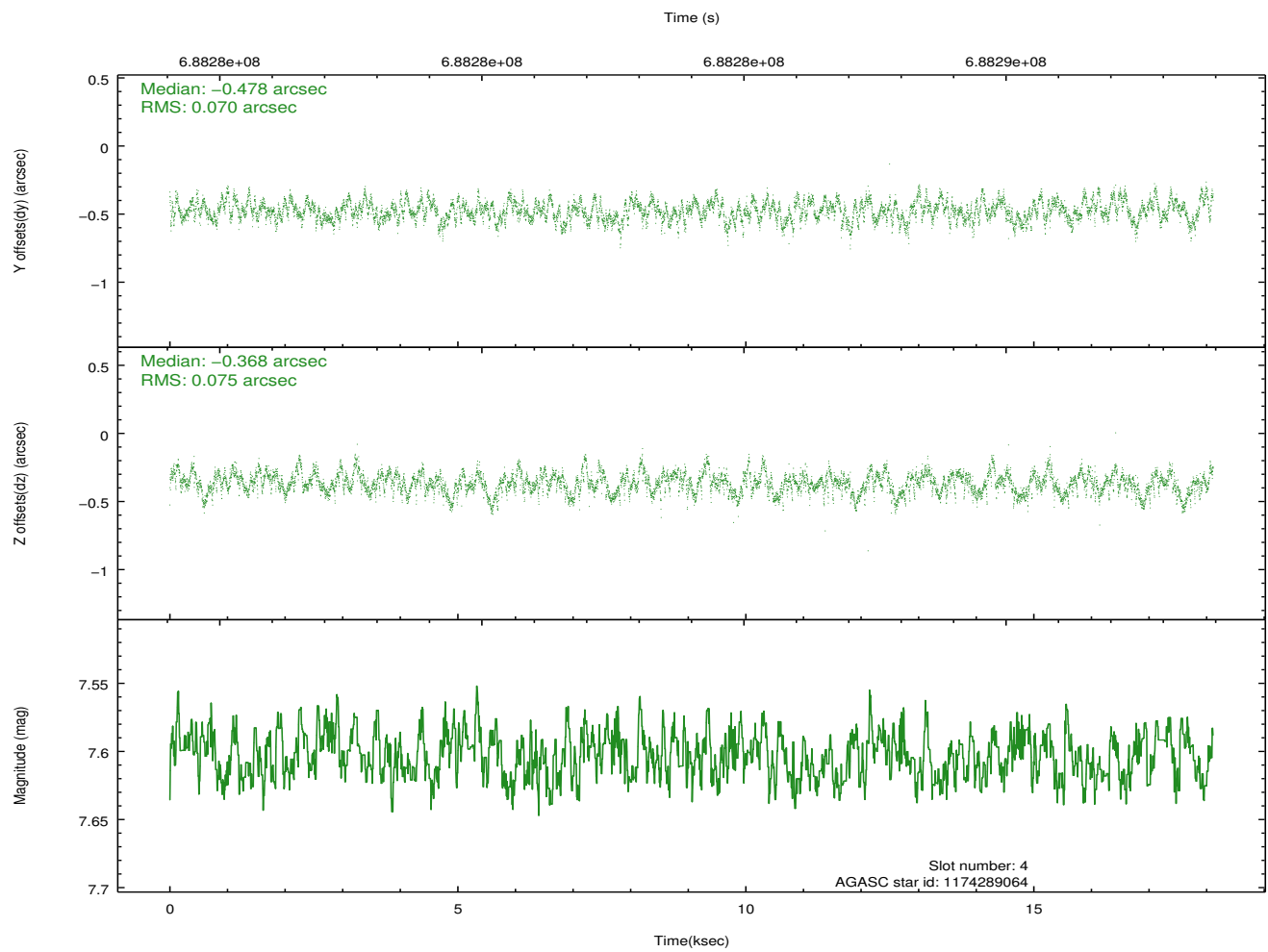
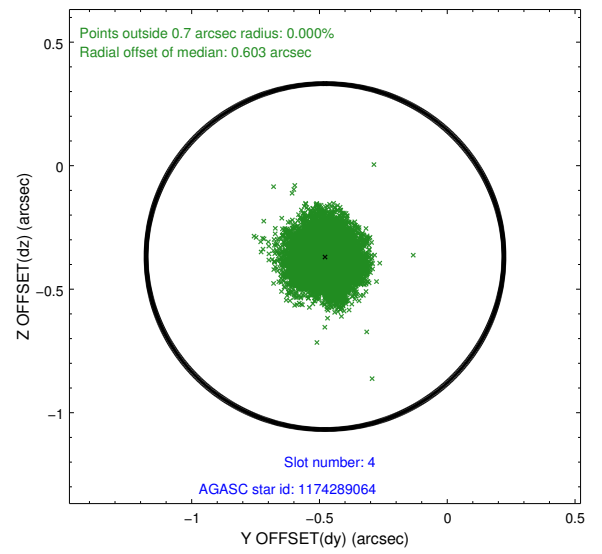
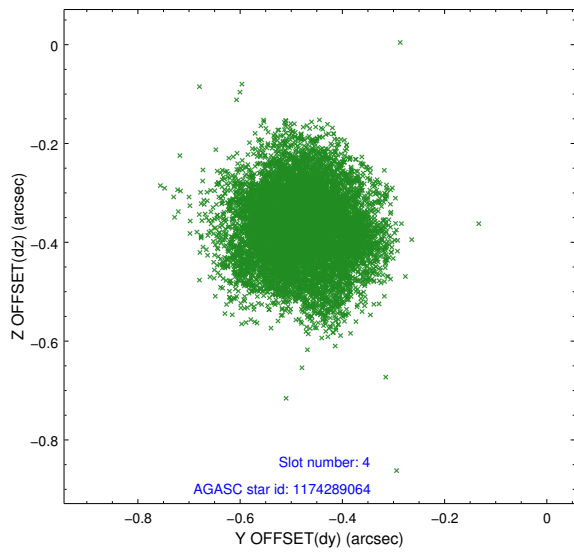
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2.4 Star Slots

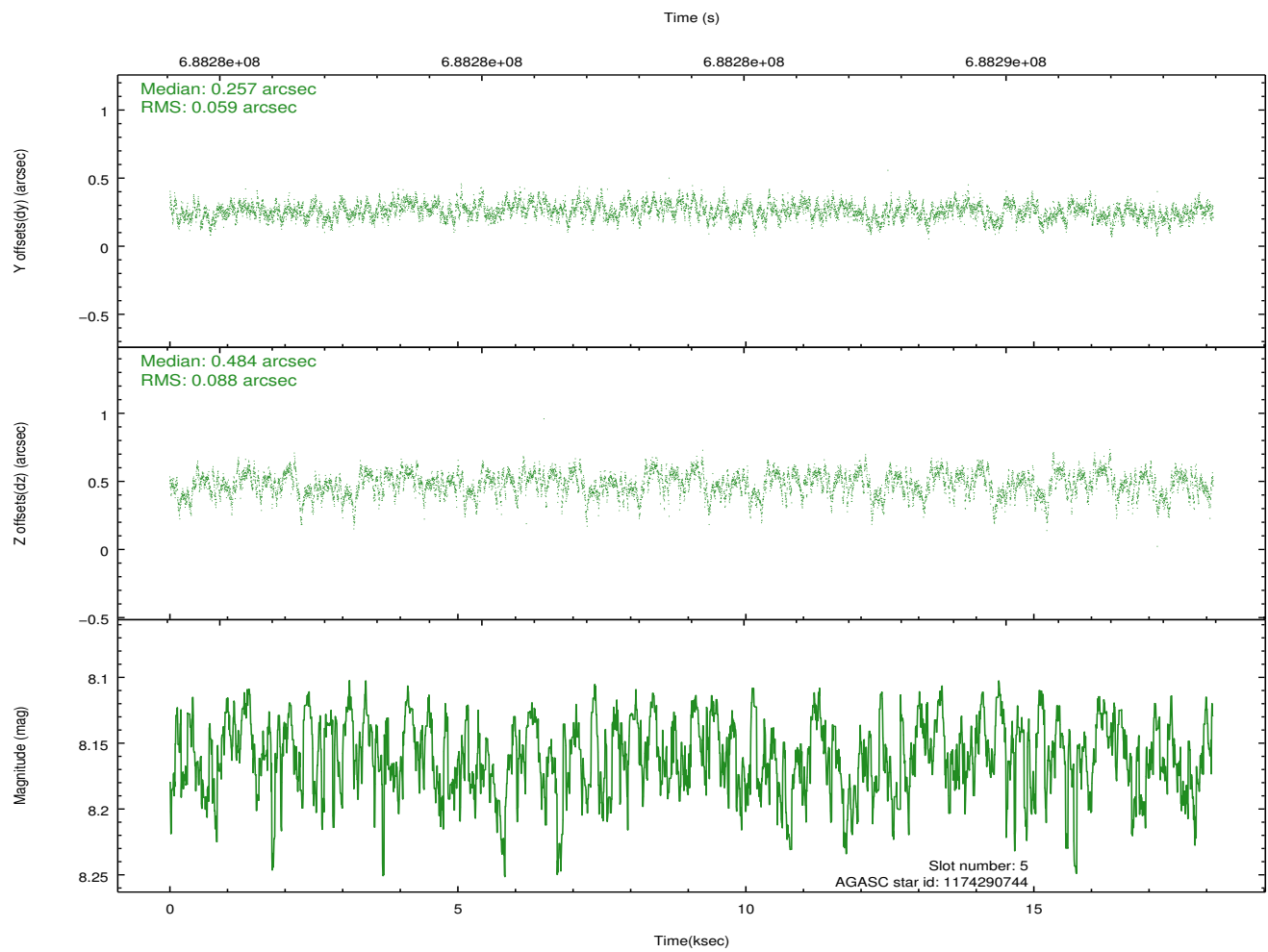
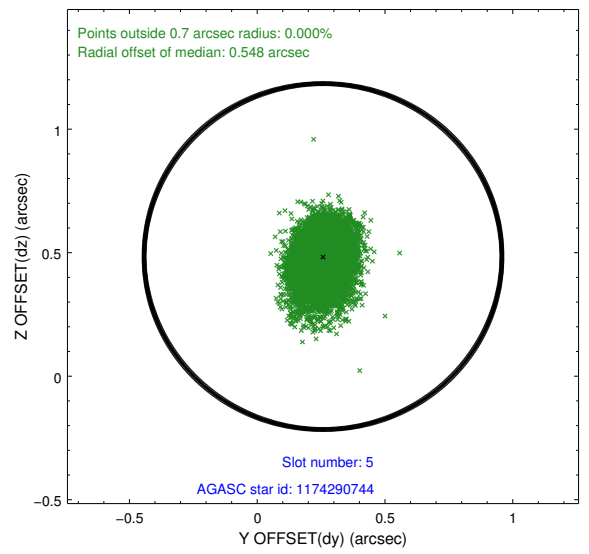
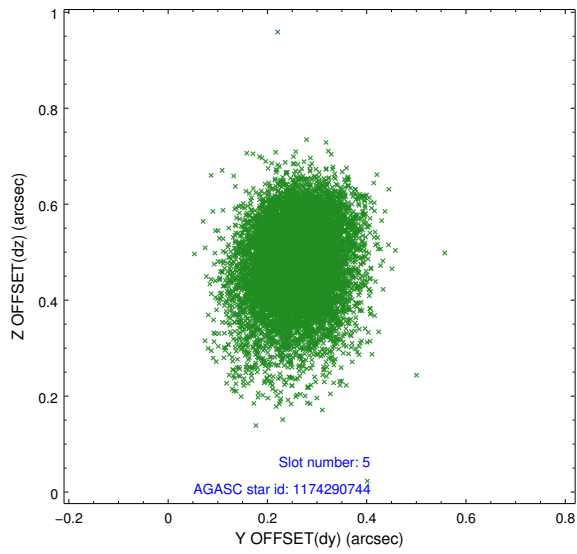
2.4.1 Slot 3



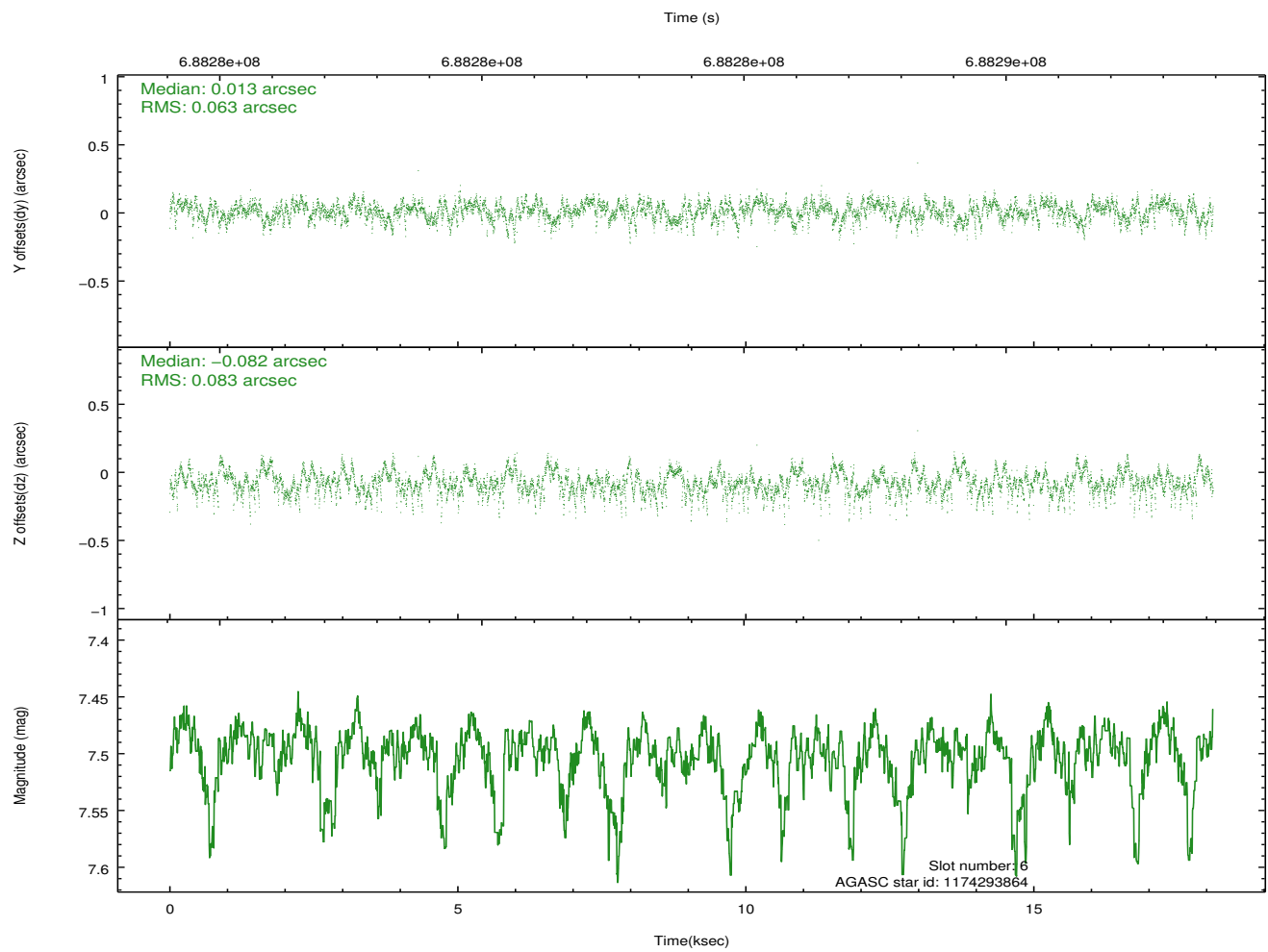
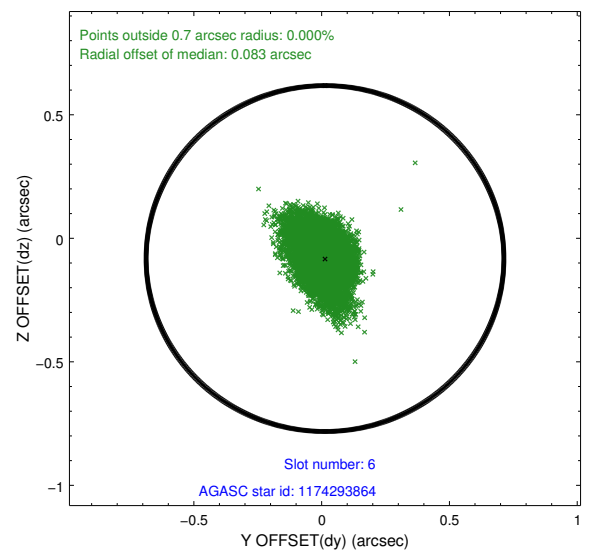
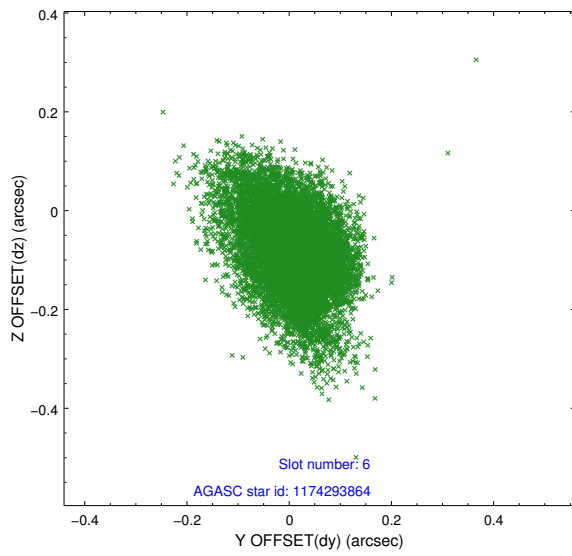
2.4.2 Slot 4



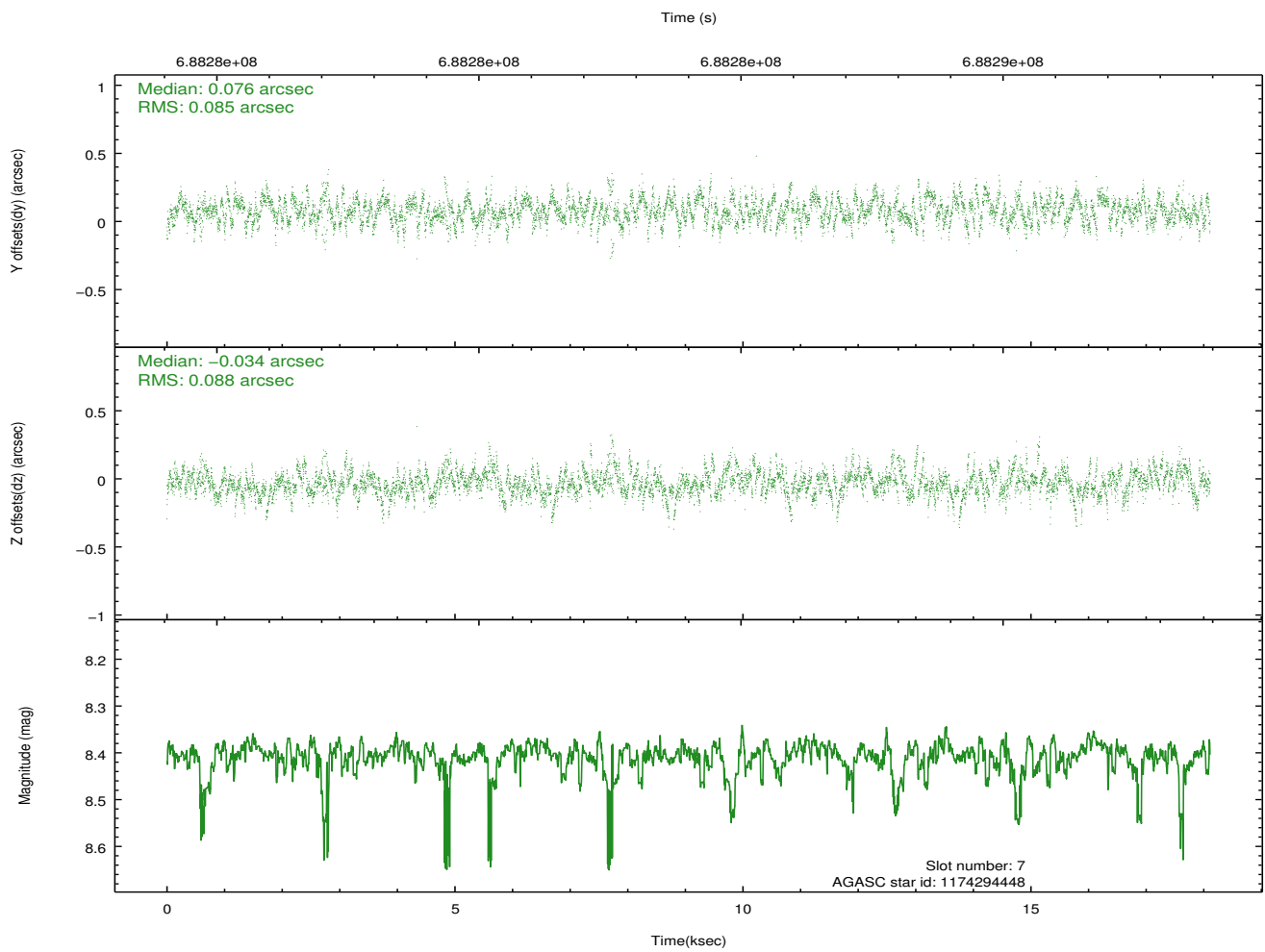
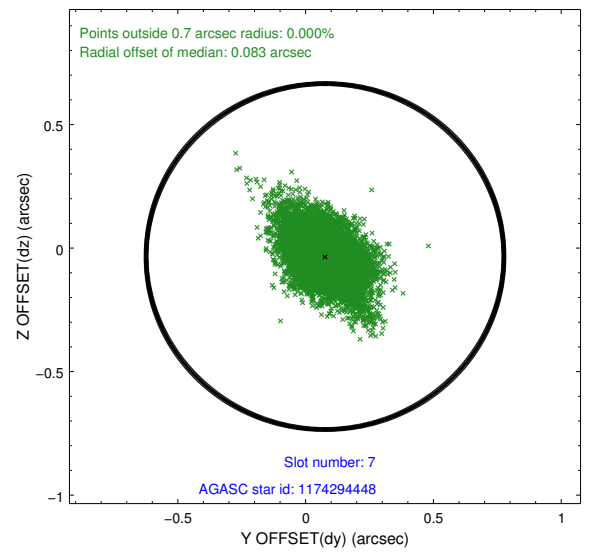
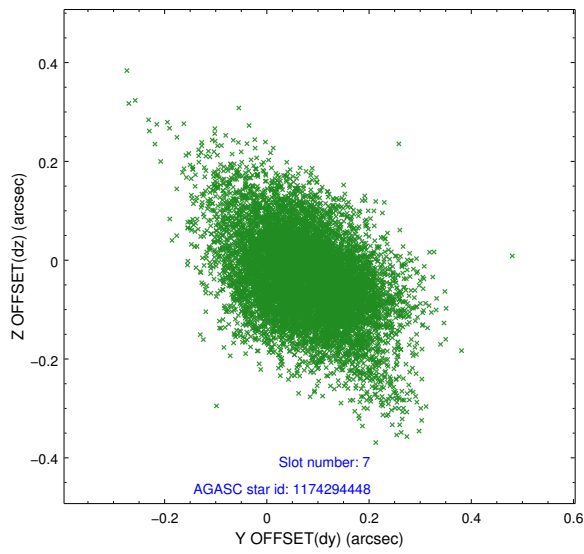
2.4.3 Slot 5



2.4.4 Slot 6

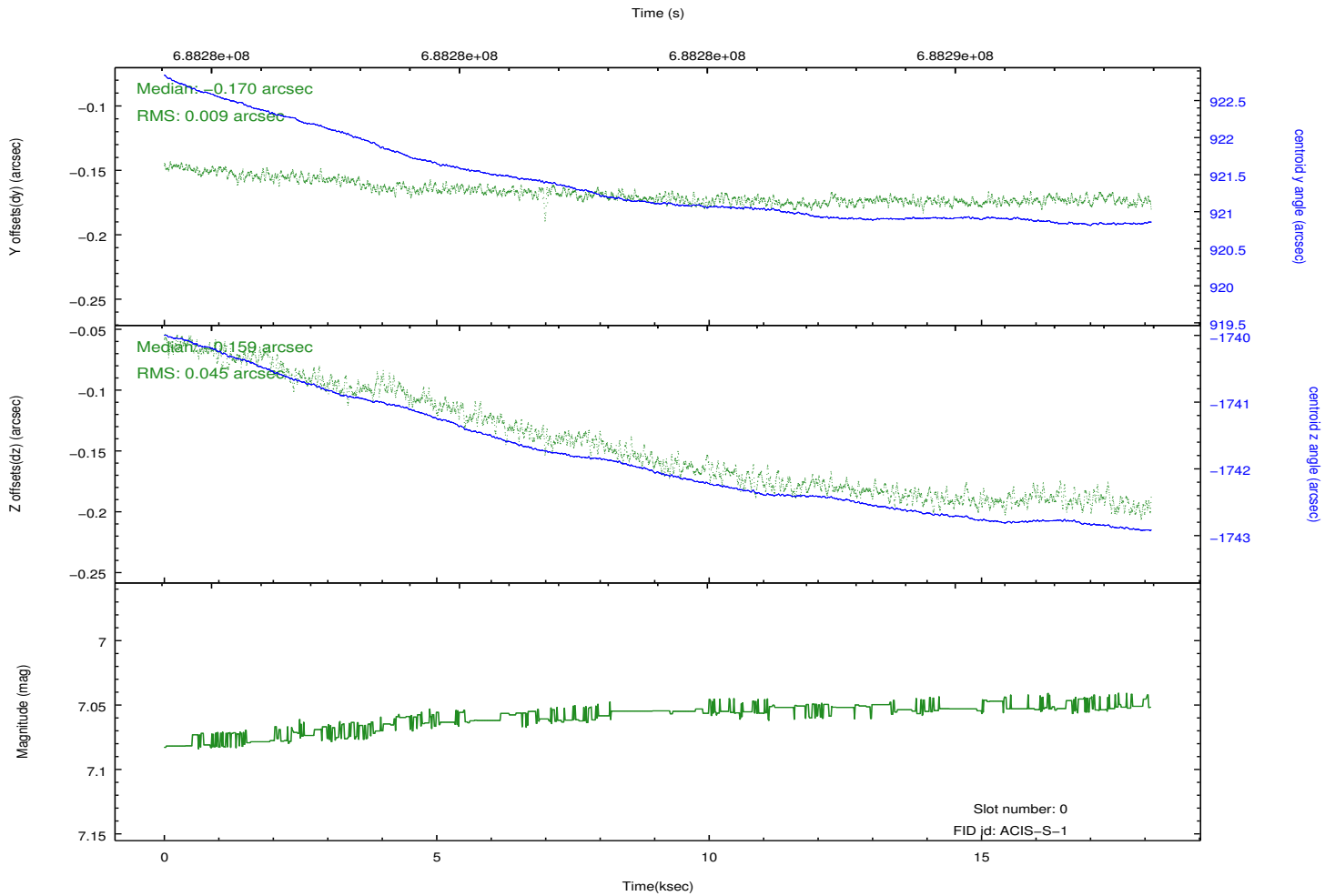
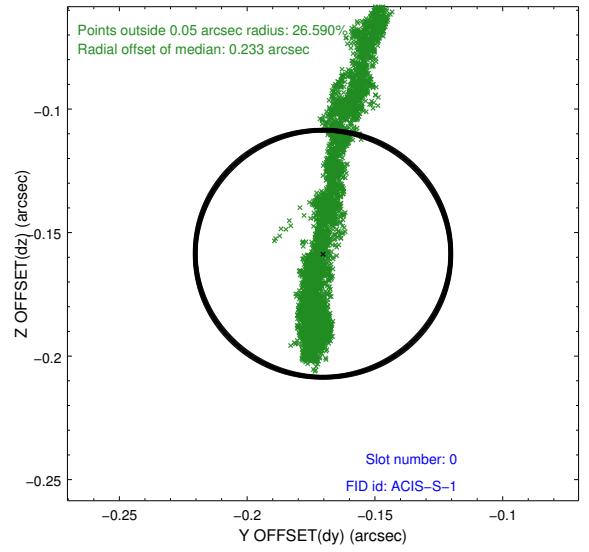
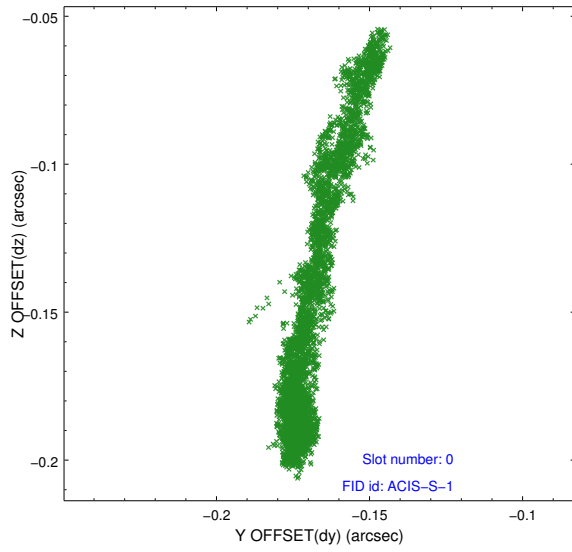


2.4.5 Slot 7

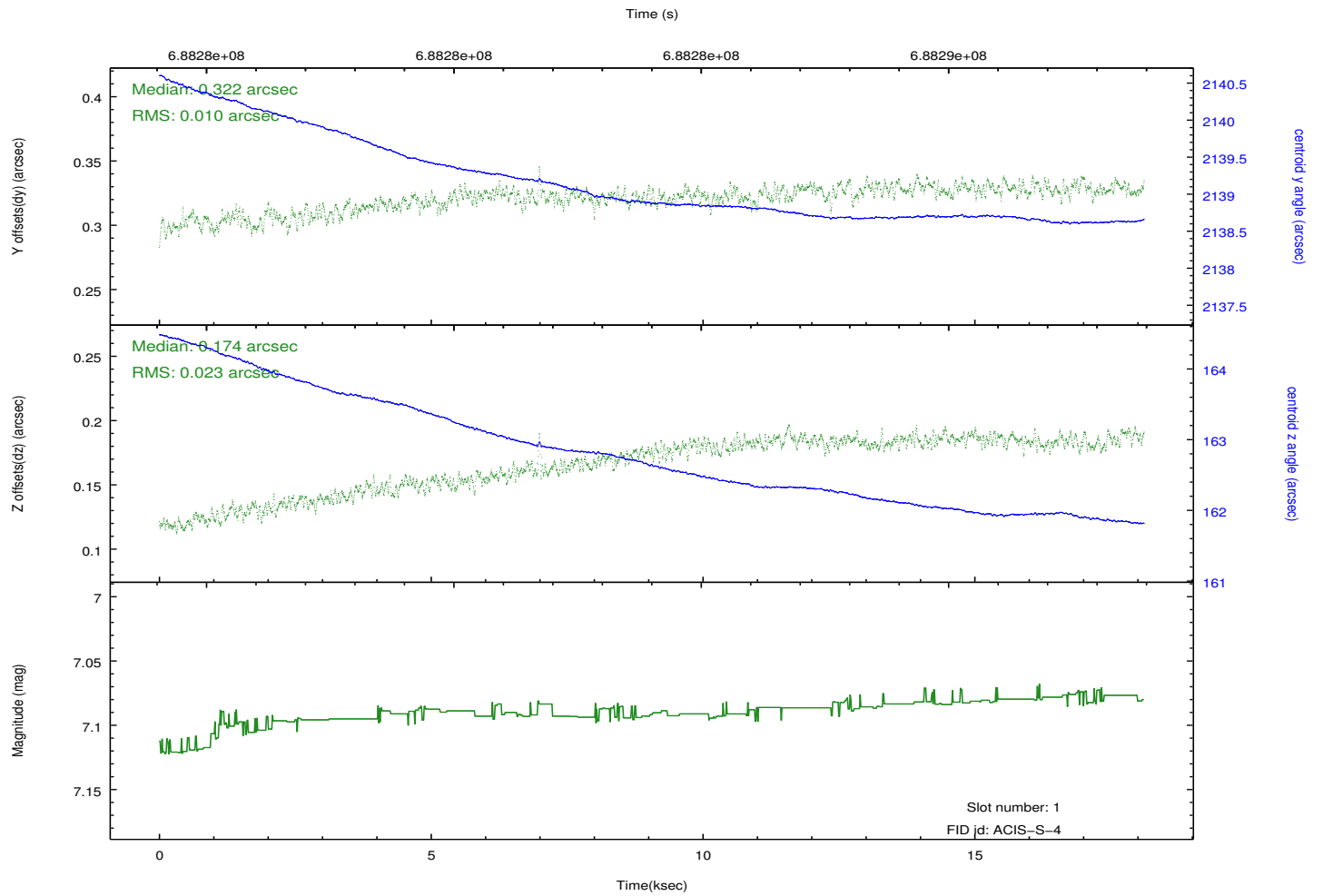
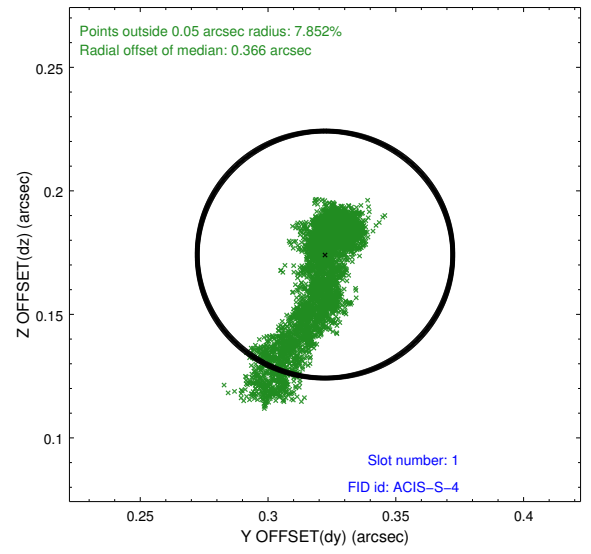
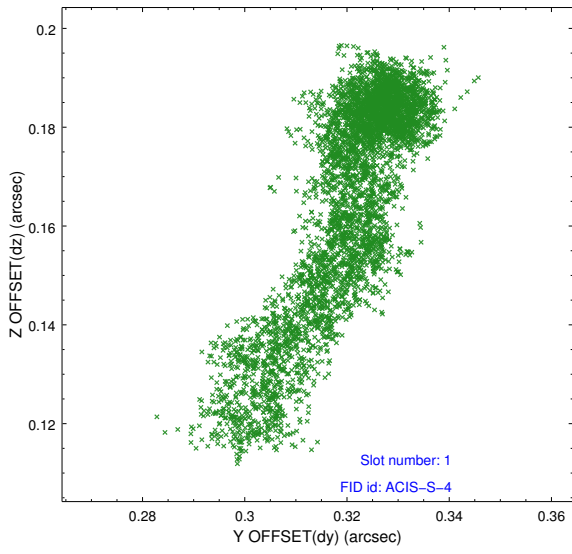


2.5 FID Slots

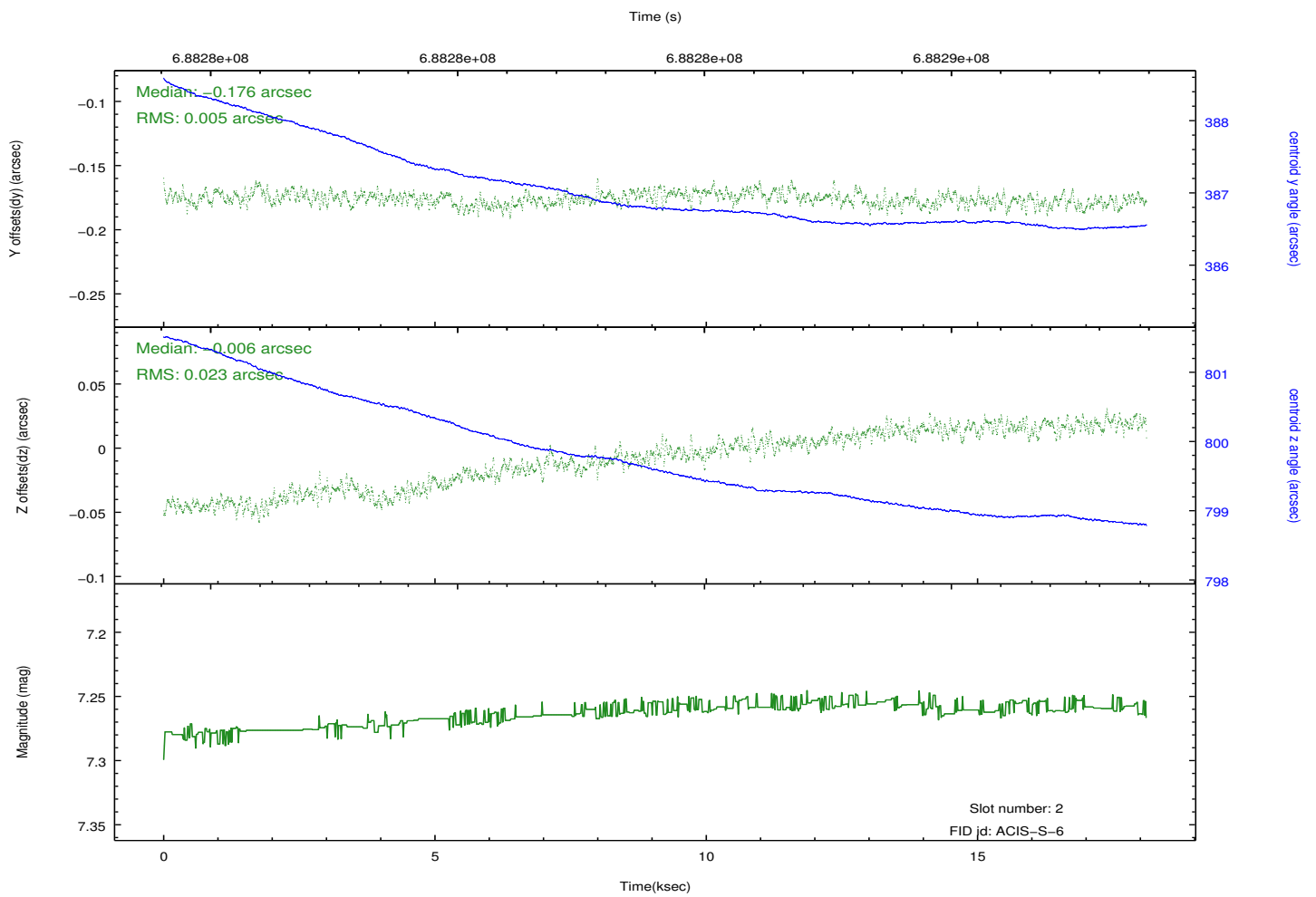
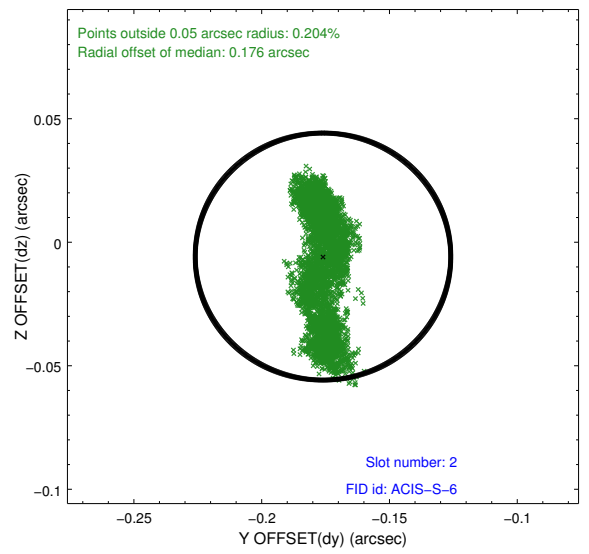
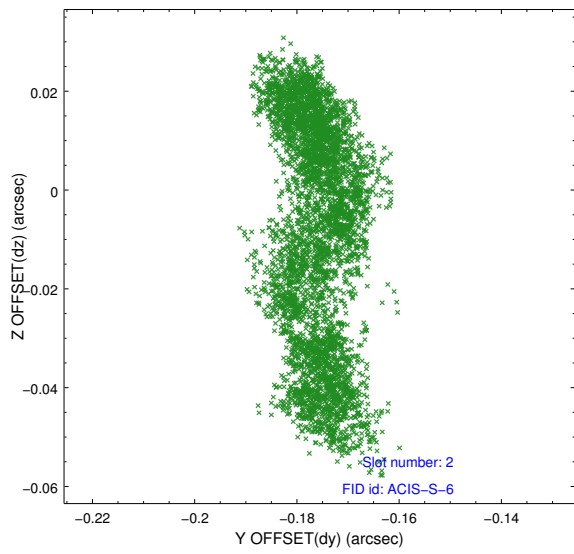
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.054400138974

A.2 Comments

Window preference met.