

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21724 - L2 Version 1
Chandra X-Ray Center

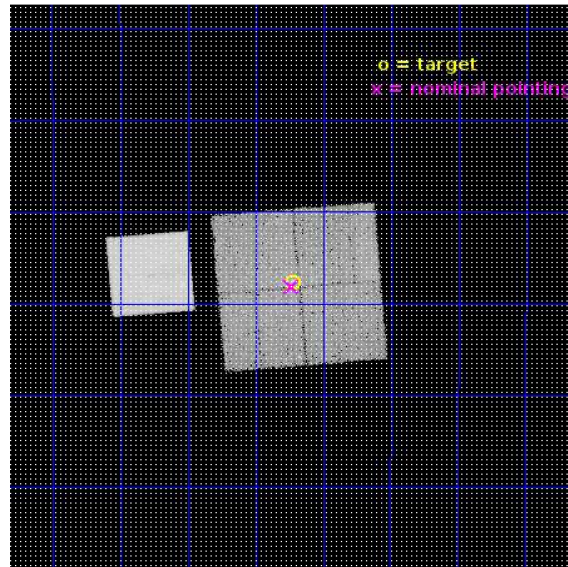
L2 Processing Date : Sep 1 2018

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1 Front

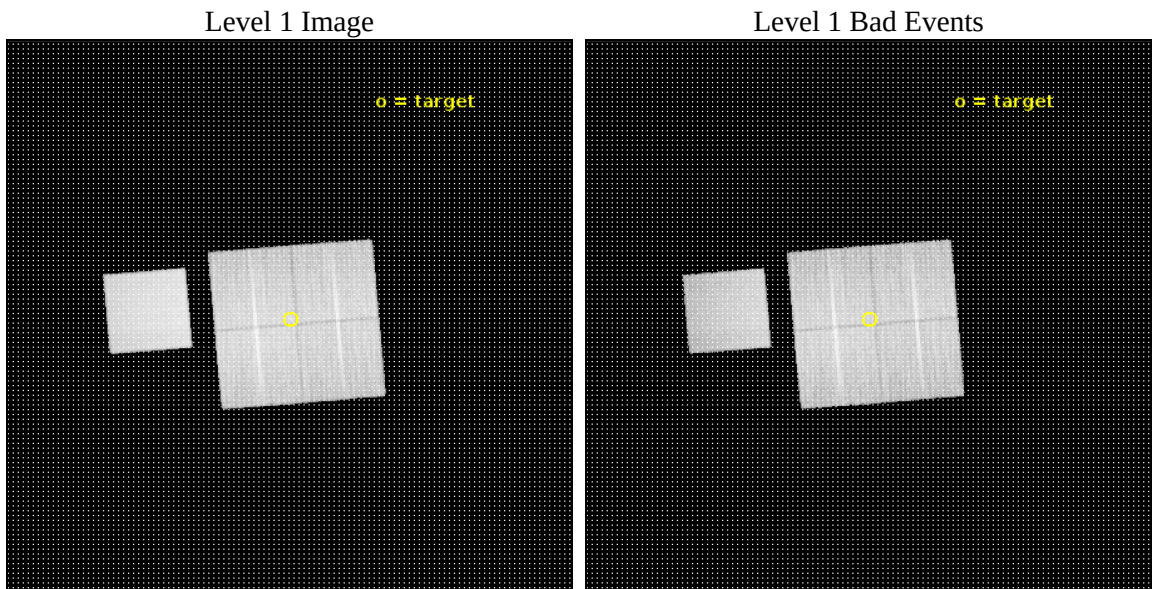
seq_num	503024	Sequence number
obs_id	21724	Observation id
title	The wagging jet and the X-ray plerion of PSR J1809-1917	Proposal t
observer	George Pavlov	Principal investigator
object	PSR J1809-1917	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.429583	Observer's specified target RA [deg]
dec_targ	-19.293917	Observer's specified target Dec [deg]
ra_nom	272.43339729797	Nominal RA [deg]
dec_nom	-19.302622171878	Nominal Dec [deg]
roll_nom	265.20994309248	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26048.102268338	Sum of GTIs [s]
livetime	25707.764635868	Livetime [s]
ontime0	26054.261139035	Sum of GTIs [s]
ontime1	26051.161158919	Sum of GTIs [s]
ontime2	26054.343219042	Sum of GTIs [s]
ontime3	26048.102268338	Sum of GTIs [s]
ontime7	26057.566299319	Sum of GTIs [s]
l2events	196031	Number of level 2 events



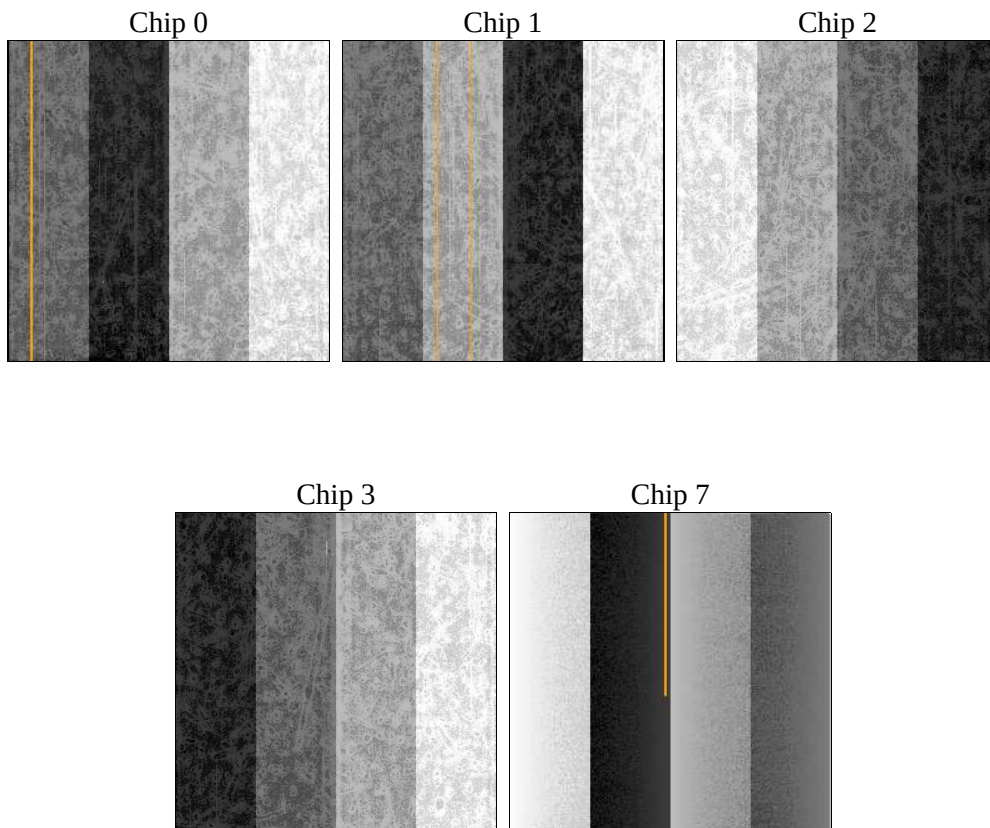
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	26048.102268338	Sum of GTIs [s]
caldsver	4.7.8	 	ontime0	26054.261139035	Sum of GTIs [s]
date	2018-09-01T14:31:30	Date and time of file creation	ontime1	26051.161158919	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26054.343219042	Sum of GTIs [s]
			ontime3	26048.102268338	Sum of GTIs [s]
			ontime7	26057.566299319	Sum of GTIs [s]
			l1events	1009682	Number of level 1 events

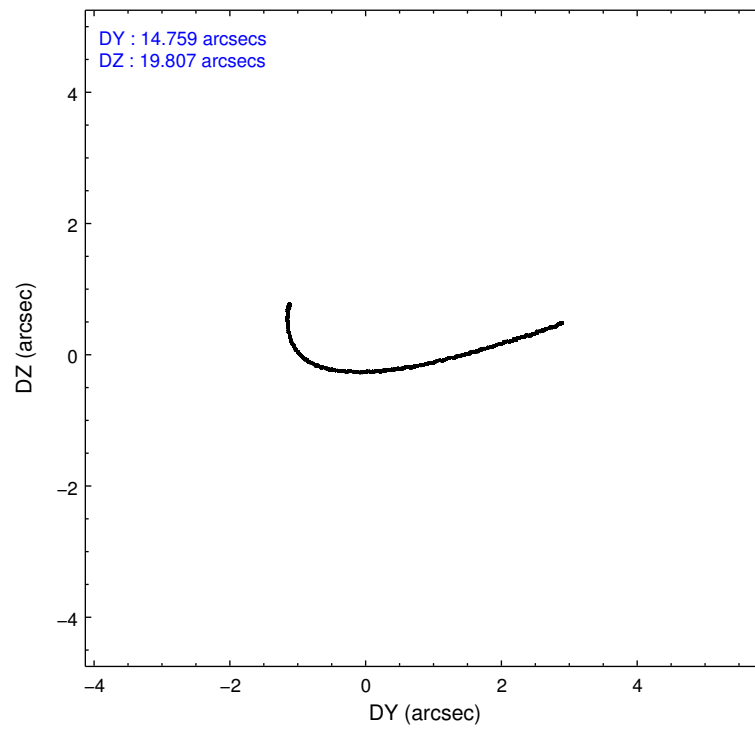
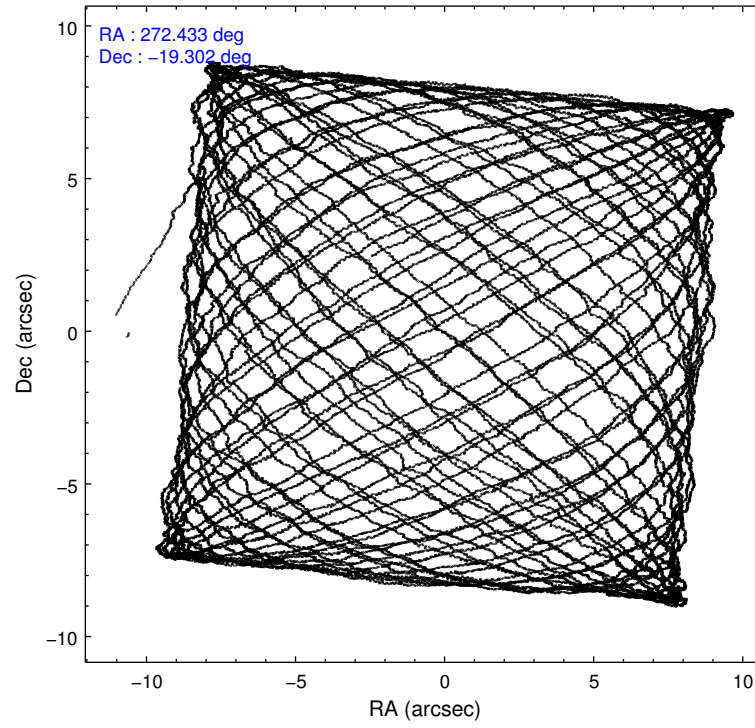
2.1.4 Events

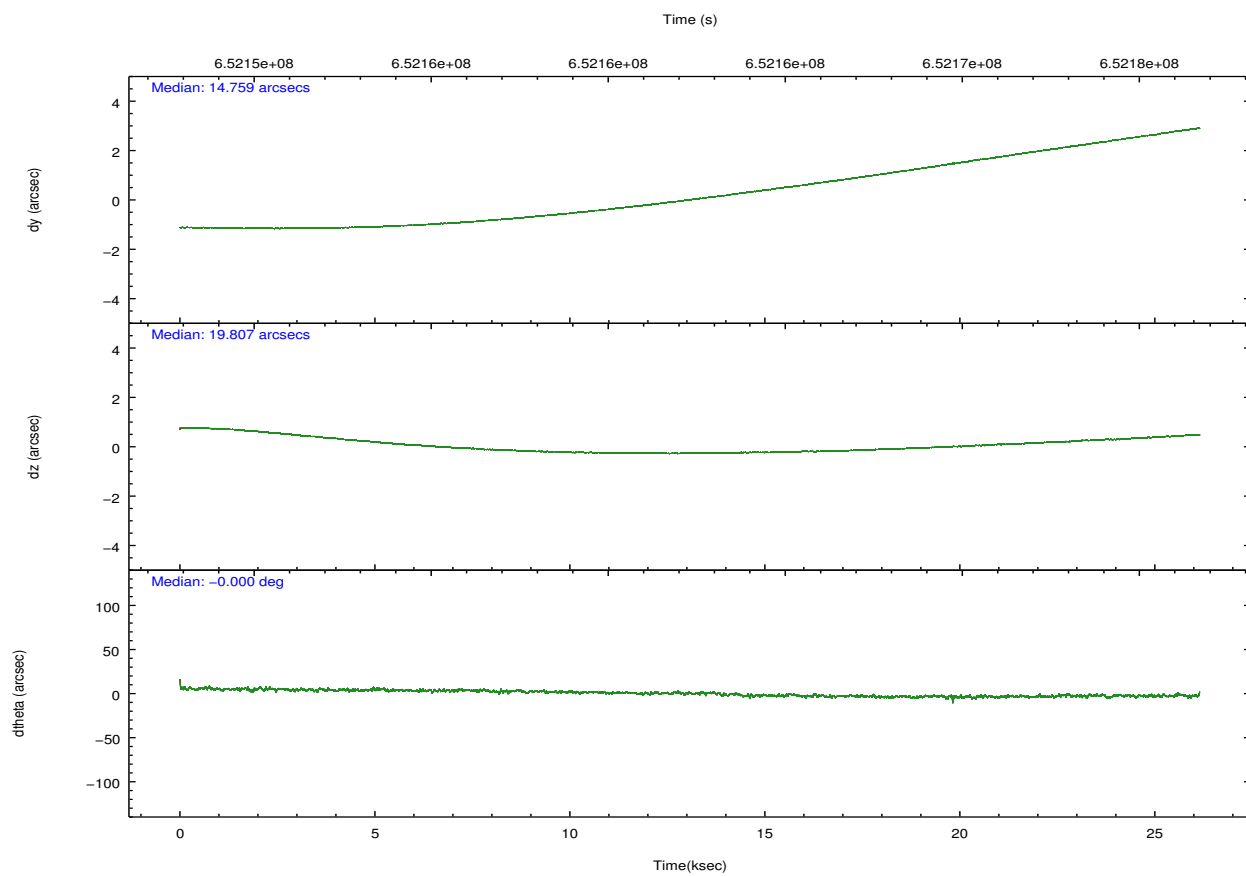
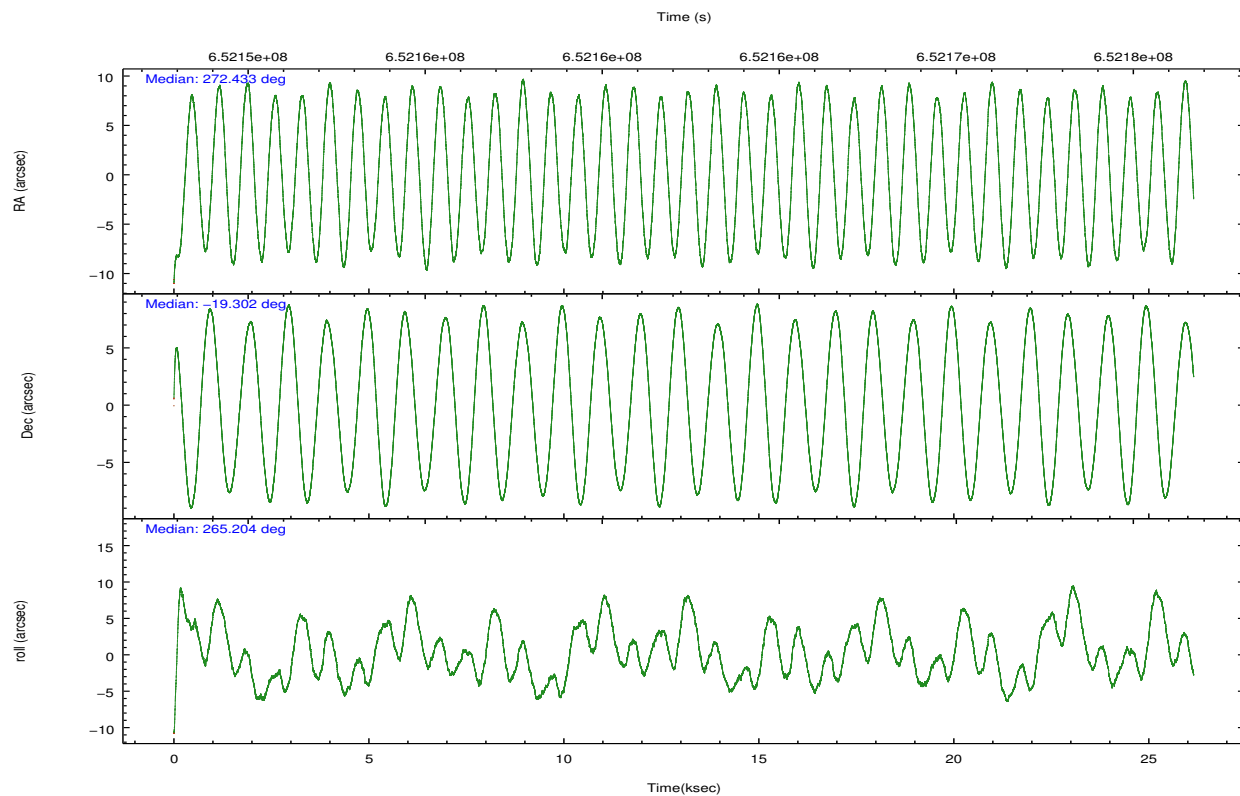
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	178526	184401	200992	188153	257610	grade 0 events	9616	9923	10797	9914	9877
rejected events	153566	157608	175005	164167	144719		5%	5%	5%	5%	3%
rejected %	86%	85%	87%	87%	56%	grade 1 events	132	125	154	121	414
							0%	0%	0%	0%	0%
						grade 2 events	6082	6409	5938	4958	24690
							3%	3%	2%	2%	9%
						grade 3 events	2357	2519	2316	2355	8973
							1%	1%	1%	1%	3%
						grade 4 events	2214	2368	2425	2240	8897
							1%	1%	1%	1%	3%
						grade 5 events	8742	9066	8245	9486	25407
							4%	4%	4%	5%	9%
						grade 6 events	4696	5581	4513	4520	60469
							2%	3%	2%	2%	23%
						grade 7 events	144687	148410	166604	154559	118883
							81%	80%	82%	82%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	272.420836	272.433397297973	CCD I2 on	Y	Y
[deg] Pointing Dec	-19.277699	-19.30262217187815	CCD I3 on	Y	Y
[deg] Pointing Roll	264.997110	265.2099430924814	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	652149387.184000	652148378.84252	CCD S5 on	N	N
Observation start date	2018-09-01T00:35:18	2018-09-01T00:19:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	652175387.184000	652176135.84417	On-chip summing requested	N	N
Observation end date	2018-09-01T07:48:38	2018-09-01T08:02:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



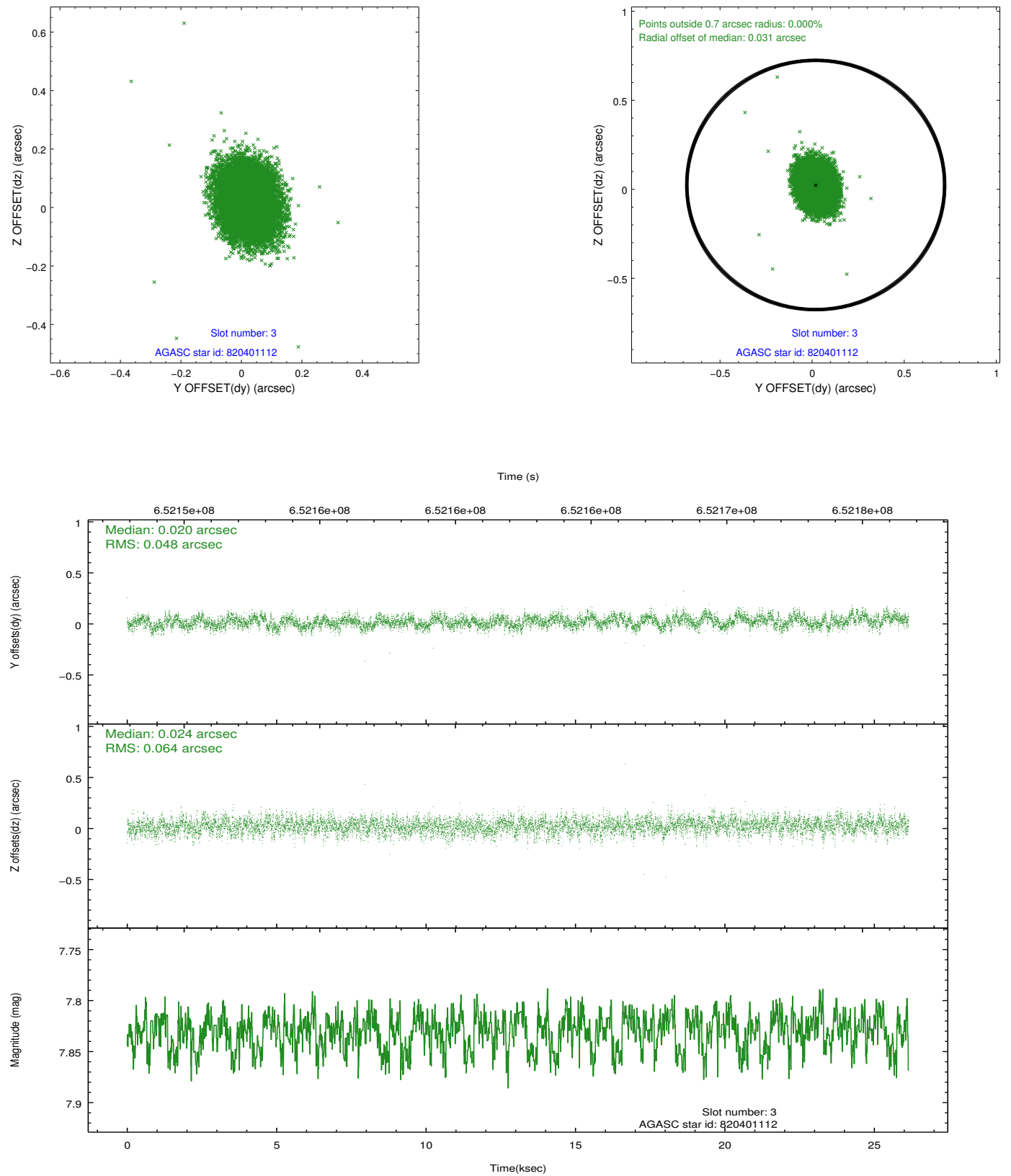


Slot Statistics

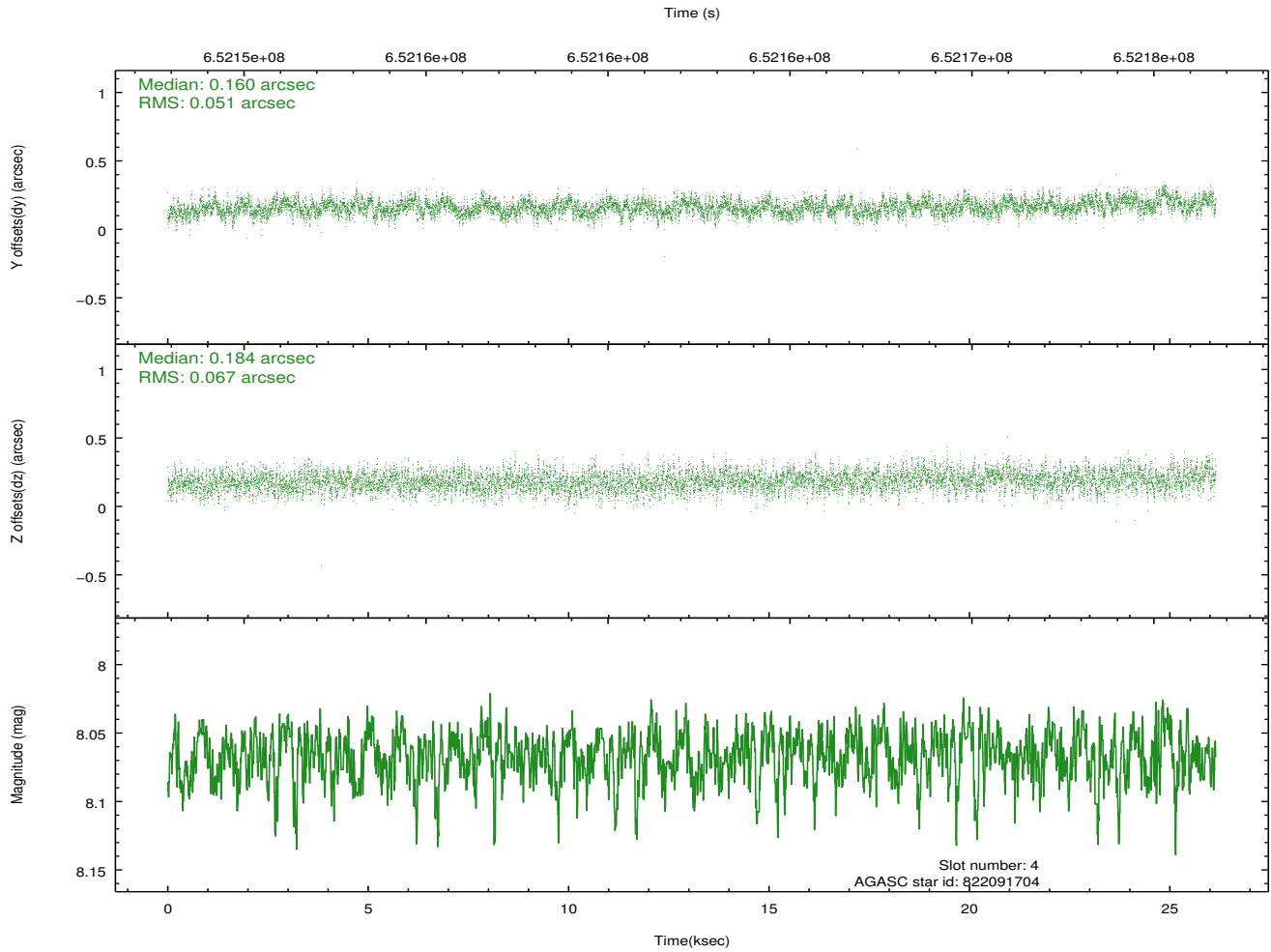
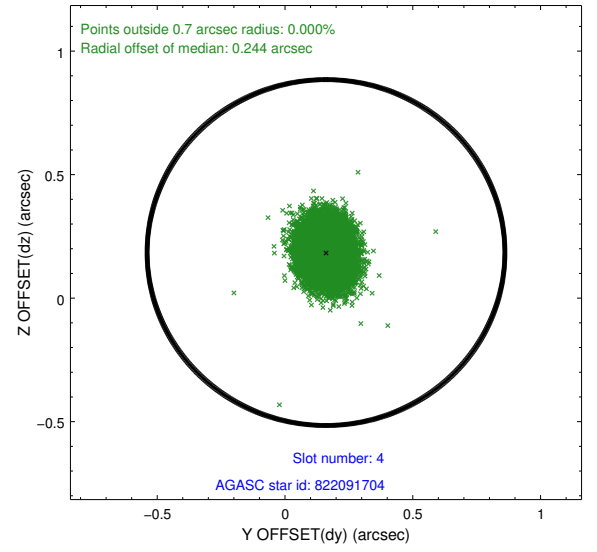
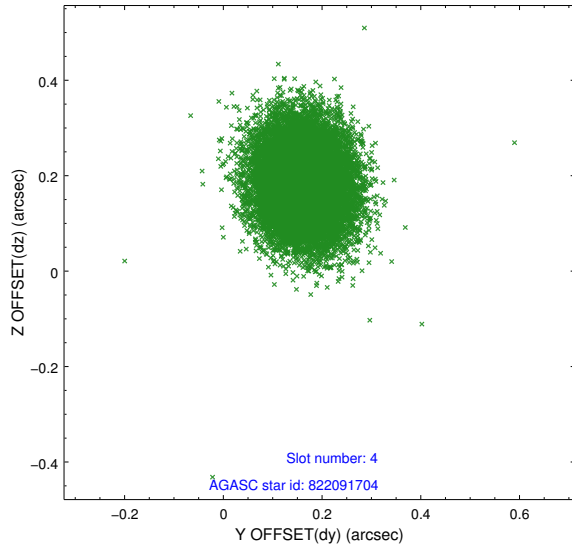
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.09	6376	1.000	-0.020	-0.017	0.036	0.067	0.000000	0.000000	924.33	-843
1	FID		ACIS-I-2	7.01	6379	1.000	-0.302	-0.138	0.018	0.035	0.000000	0.000000	-769.96	-850
2	FID		ACIS-I-4	7.04	6376	1.000	0.225	0.217	0.022	0.089	0.000000	0.000000	2144.50	1056
3	GUIDE	used	820401112	7.83	12749	1.000	0.020	0.024	0.084	0.138	271.884761	-19.293988	220.67	-1808
4	GUIDE	used	822091704	8.07	12752	1.000	0.160	0.184	0.088	0.145	272.220028	-18.943658	-1137.30	-785
5	GUIDE	used	822096760	8.02	12749	1.000	-0.325	-0.250	0.122	0.218	272.830526	-19.438690	457.56	1436
6	GUIDE	used	822100176	8.58	12750	1.000	0.287	-0.146	0.126	0.203	272.112888	-19.868886	2212.84	-852
7	GUIDE	used	821559528	9.06	12743	1.000	-0.139	0.200	0.154	0.241	272.980625	-18.673858	-2328.41	1712

2.4 Star Slots

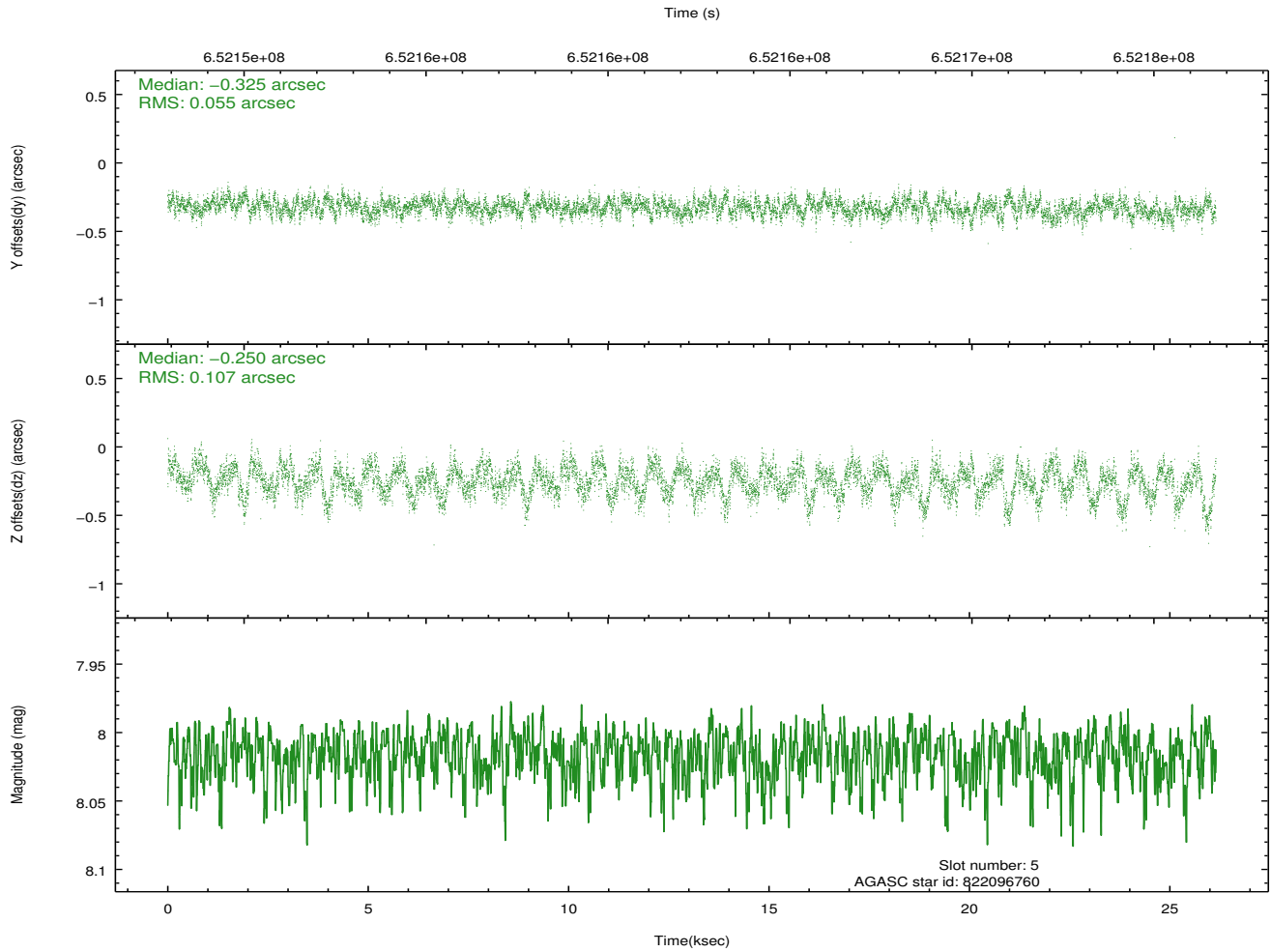
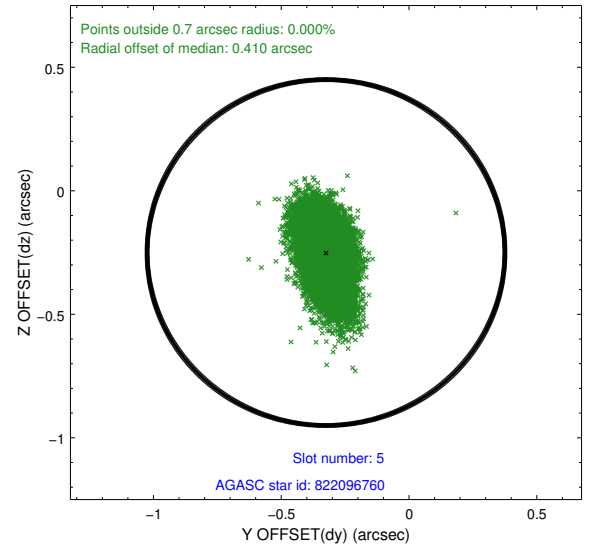
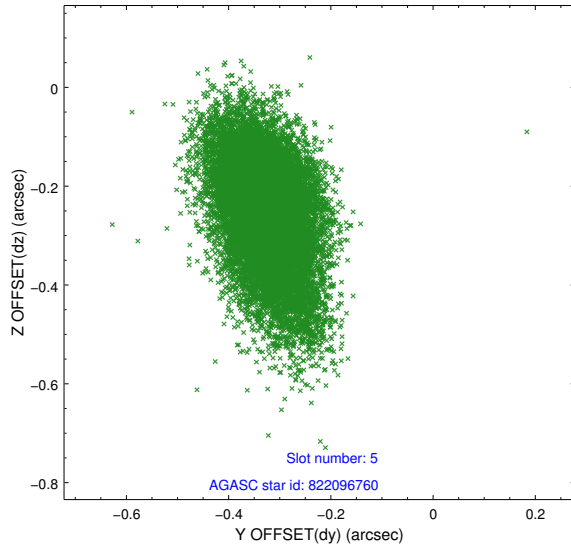
2.4.1 Slot 3



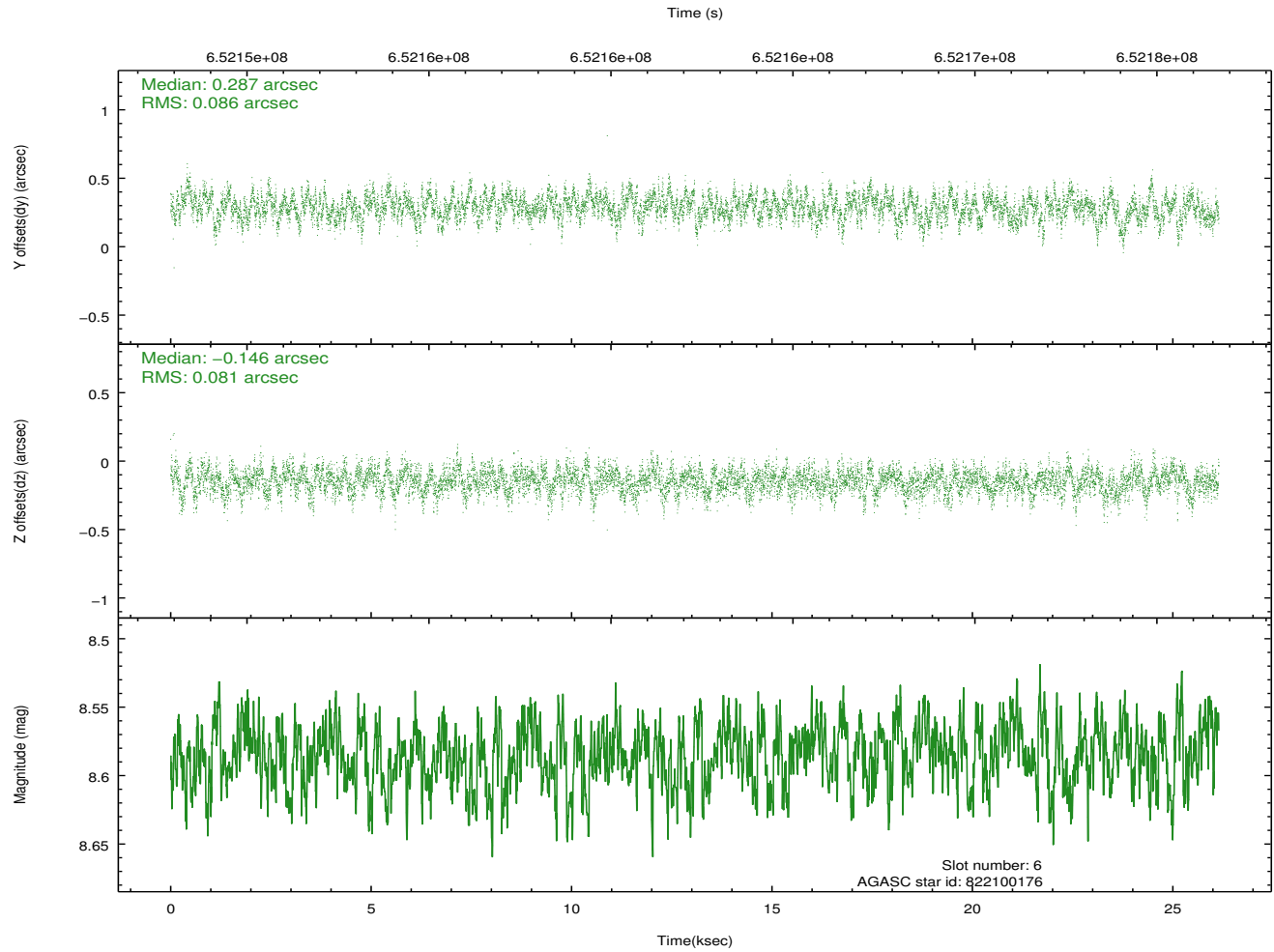
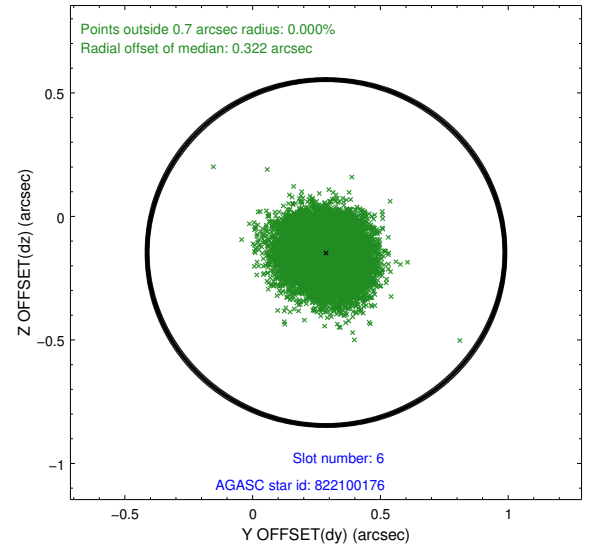
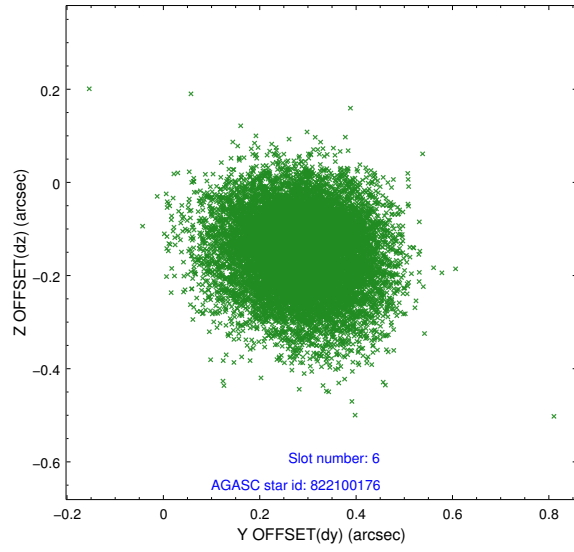
2.4.2 Slot 4



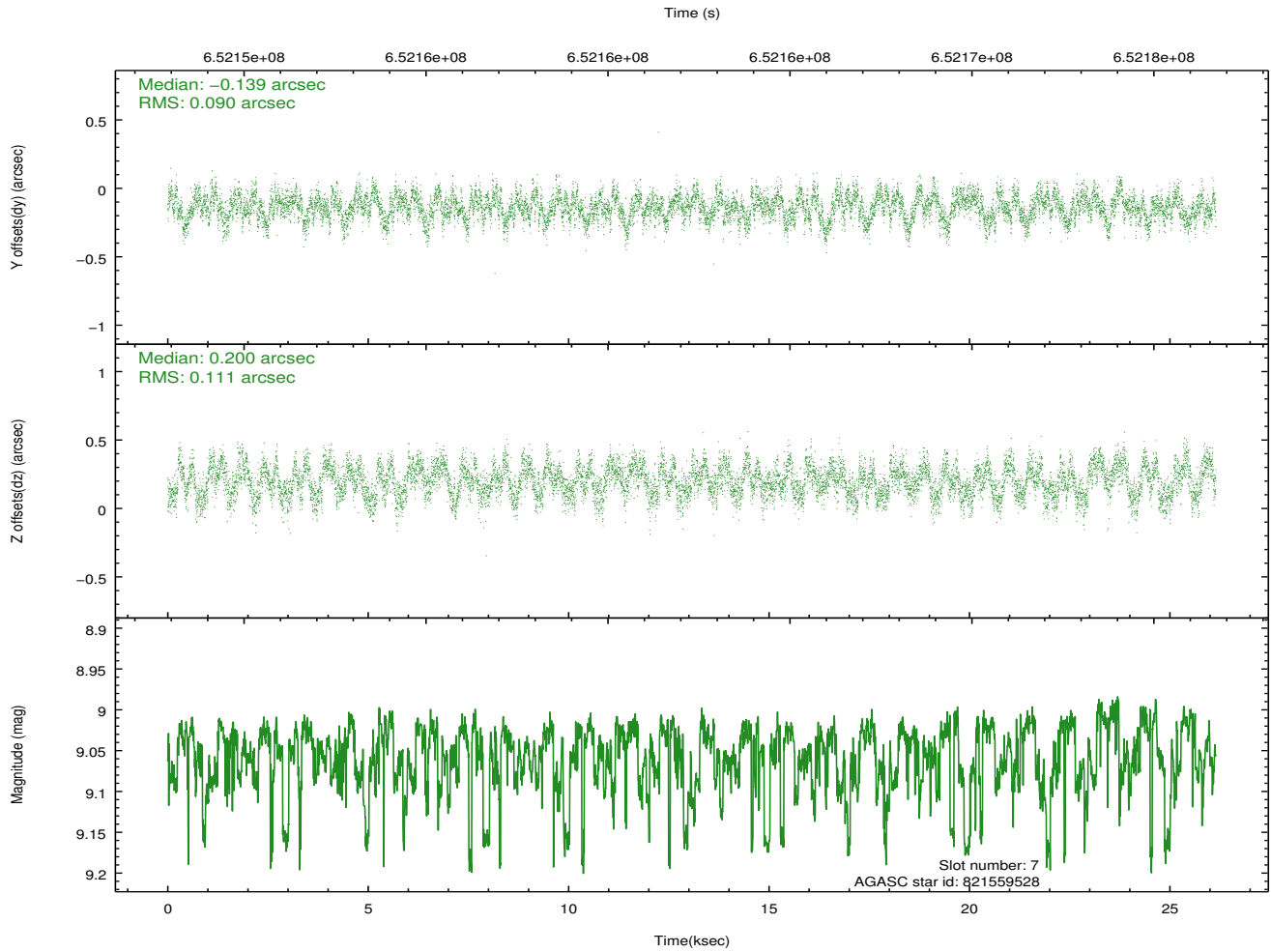
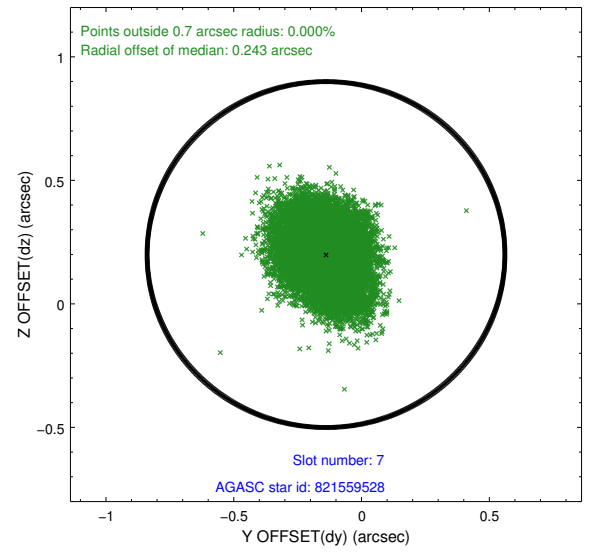
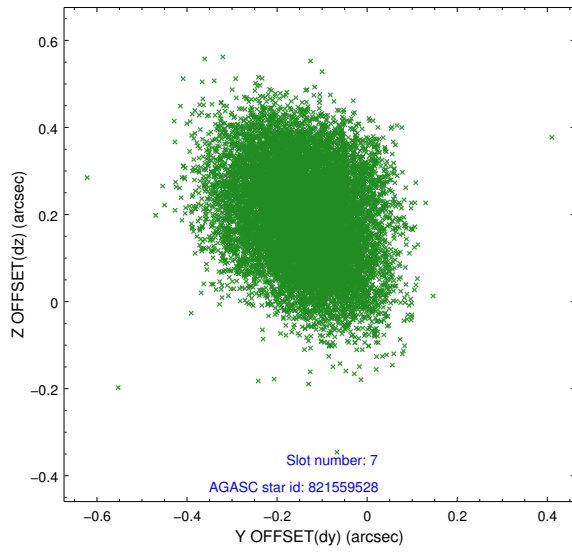
2.4.3 Slot 5



2.4.4 Slot 6

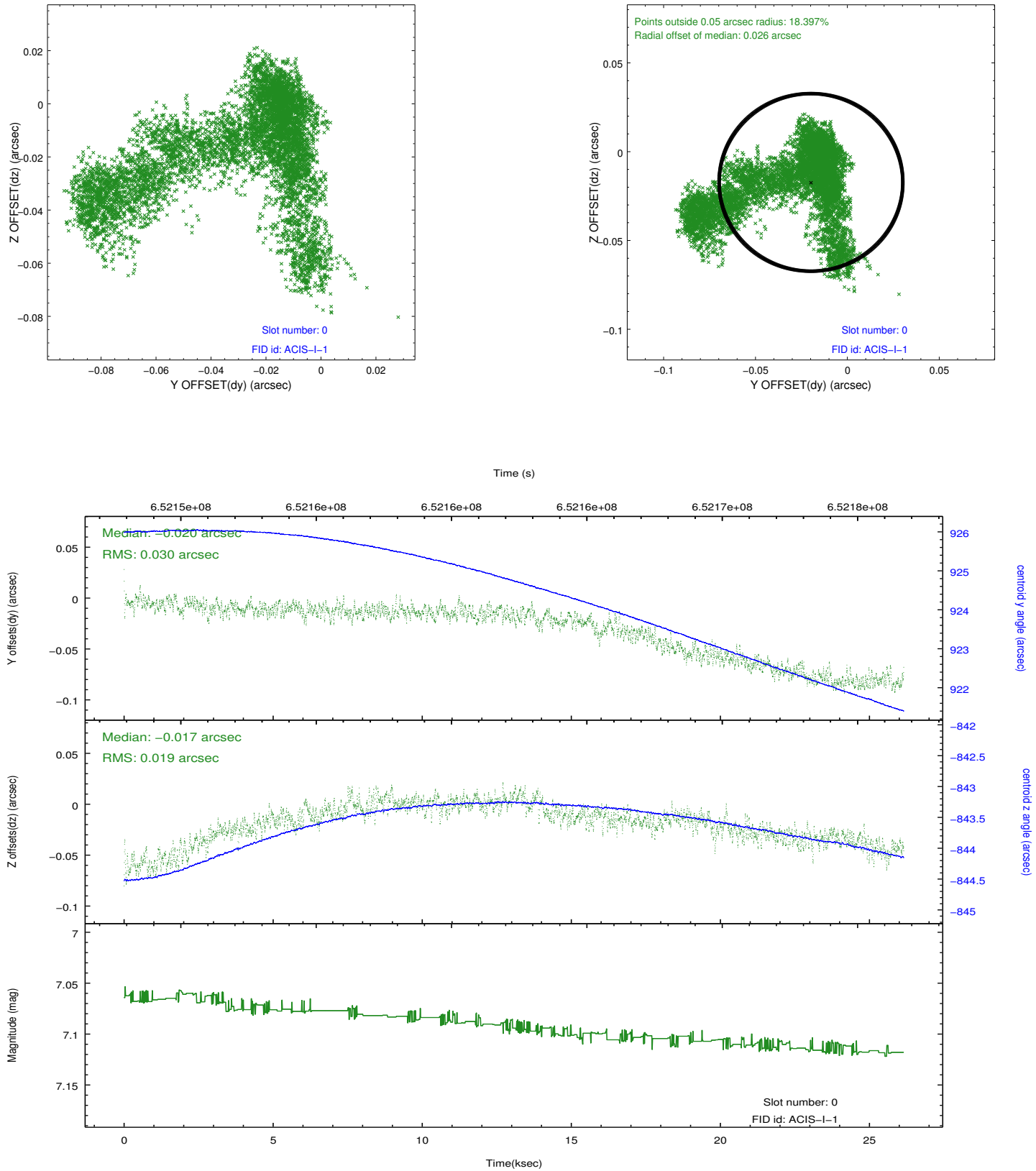


2.4.5 Slot 7

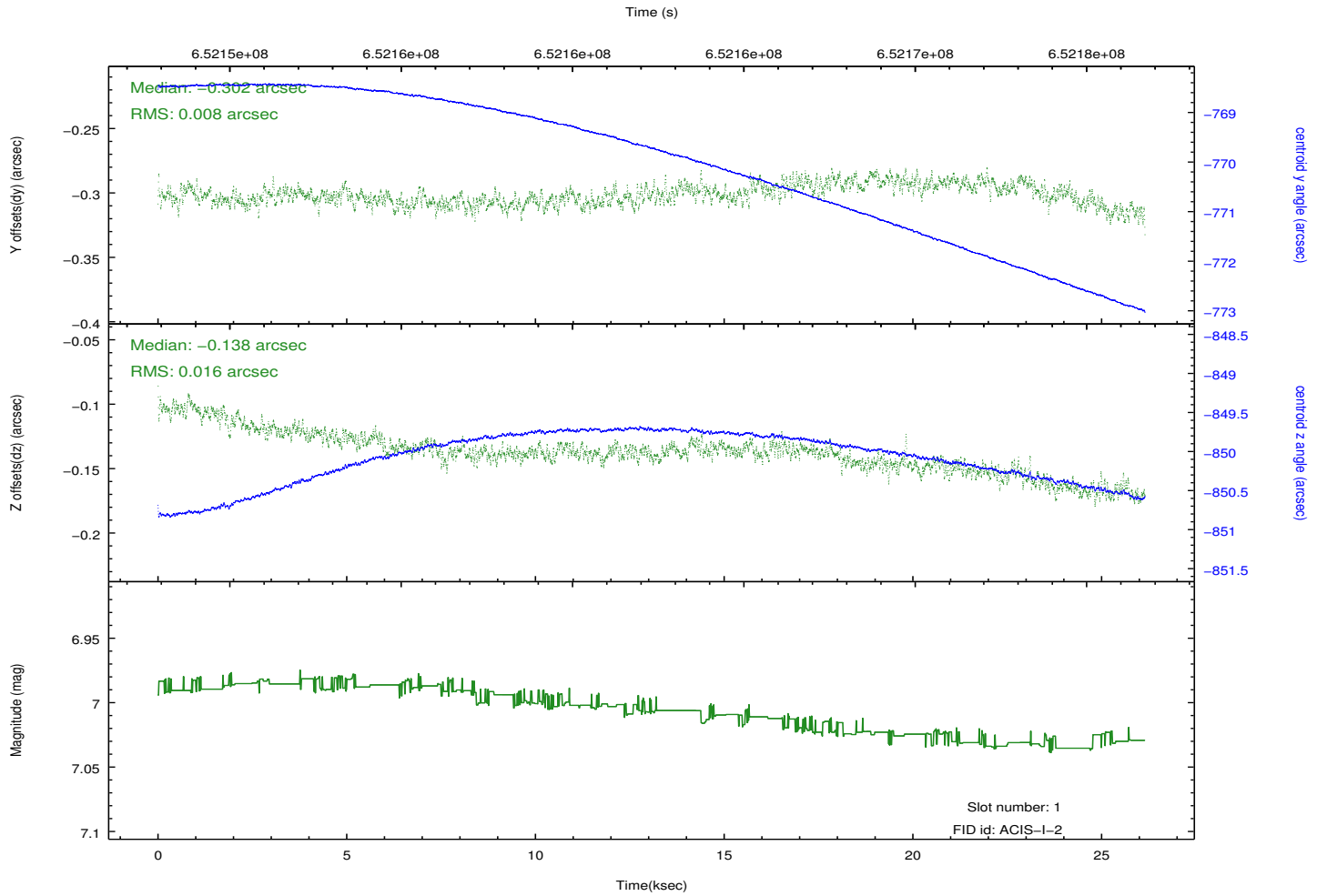
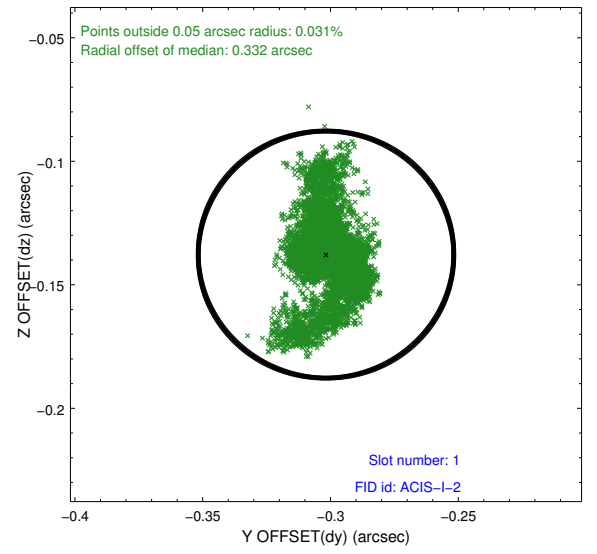
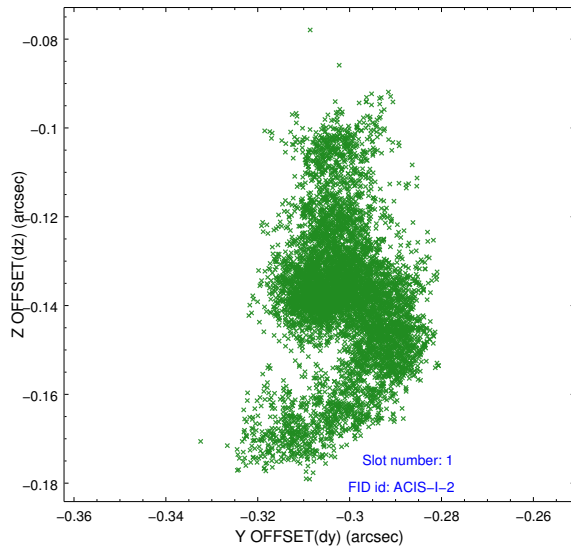


2.5 FID Slots

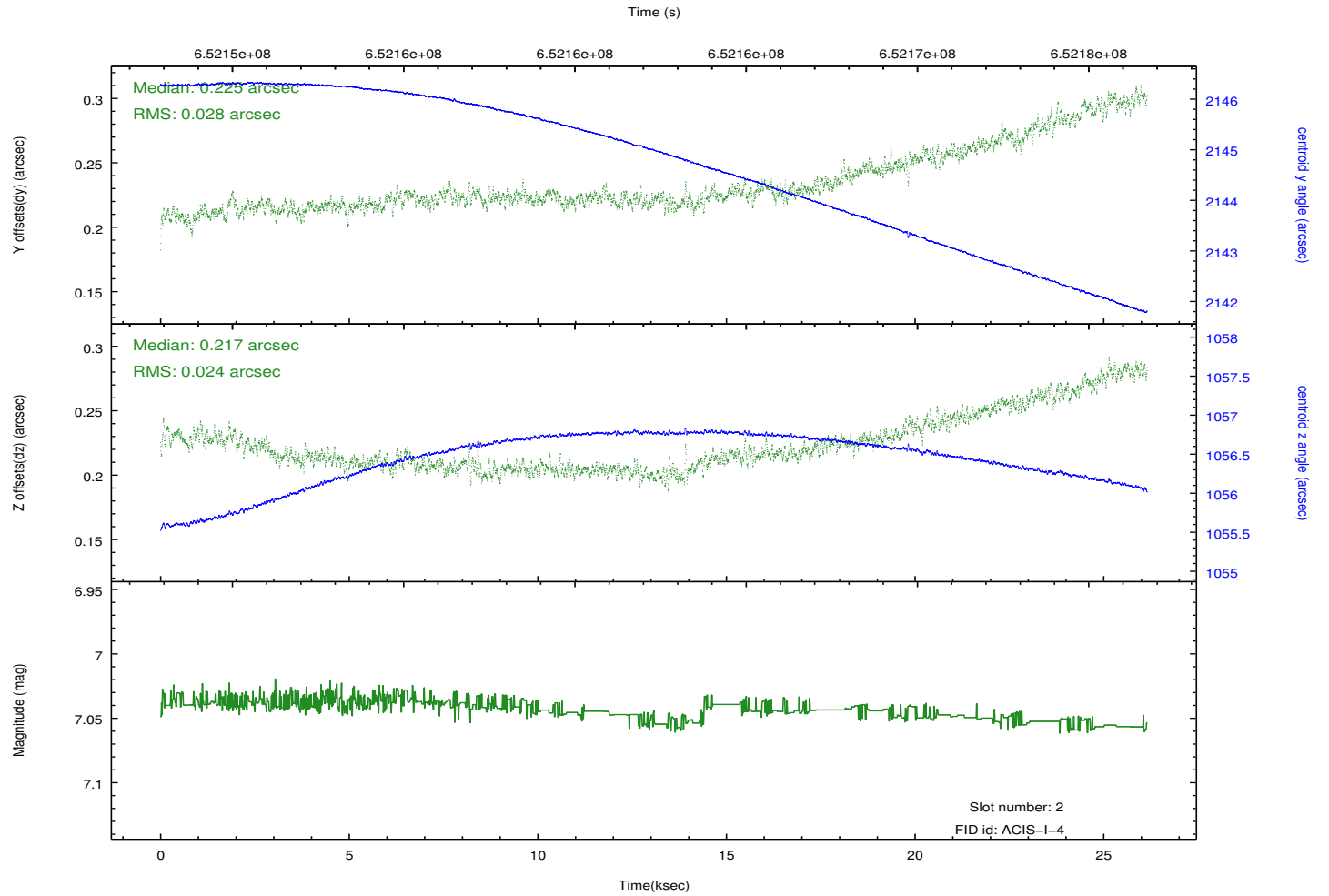
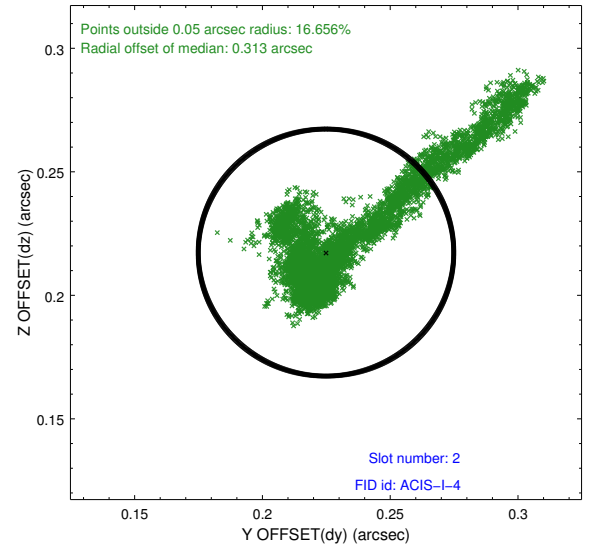
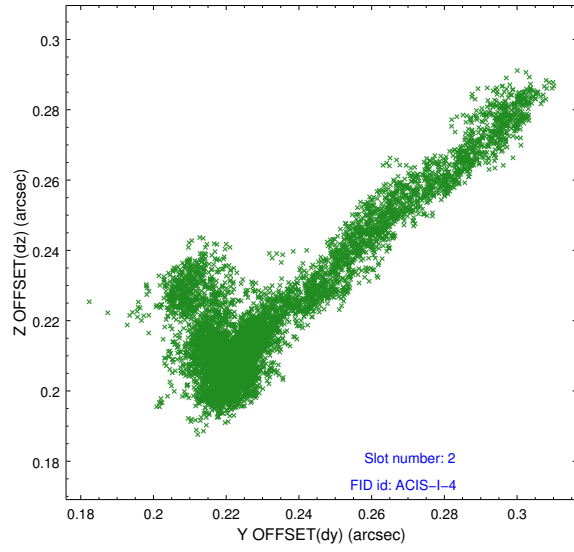
2.5.1 Slot 0



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)	2018.09.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.048102268338

A.2 Comments