

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 14330 - L2 Version 1
Chandra X-Ray Center

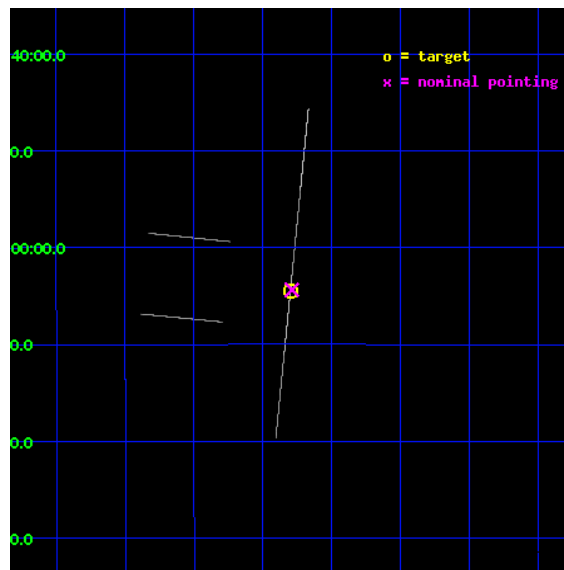
L2 Processing Date : Apr 20 2012

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1 Front

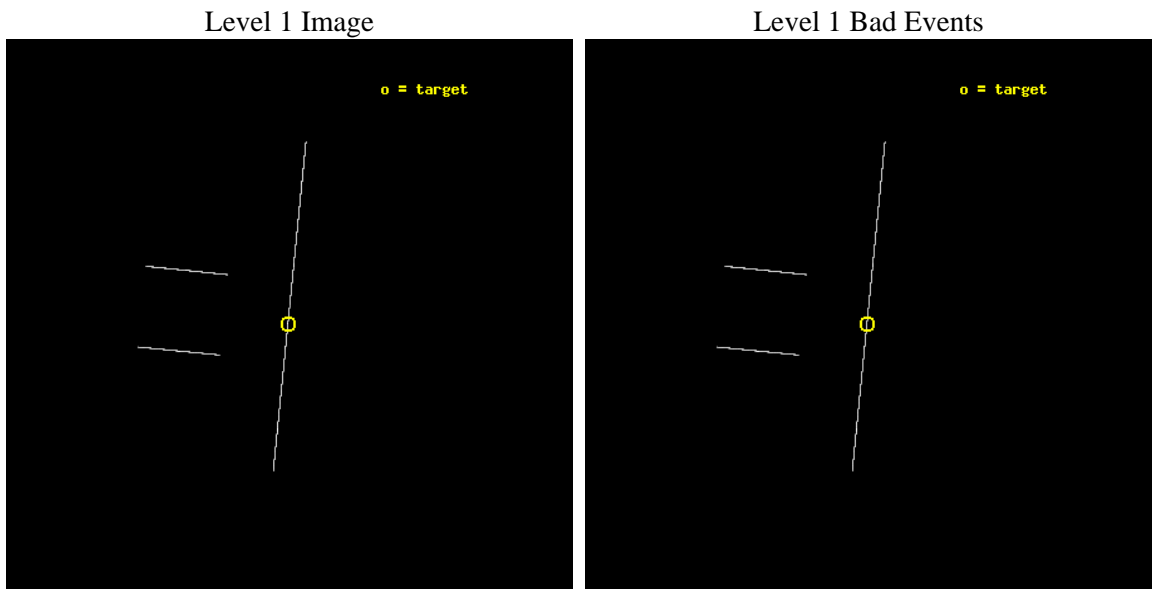
seq_num	501790	Sequence number
obs_id	14330	Observation id
title	TINY HICCUPS TO TITANIC EXPLOSIONS: Tackling Transients in Anomalous X-ray Pulsars	Proposal title
observer	Professor Victoria Kaspi	Principal investigator
object	SWIFT J1822.3-1606	Source name
ra_targ	275.575	Observer's specified target RA [deg]
dec_targ	-16.074111	Observer's specified target Dec [deg]
ra_nom	275.57220794171	Nominal RA [deg]
dec_nom	-16.072725400001	Nominal Dec [deg]
roll_nom	95.68832878031	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20077.0	Sum of GTIs [s]
livetime	19998.57421875	Livetime [s]
ontime2	20077.0	Sum of GTIs [s]
ontime3	20077.0	Sum of GTIs [s]
ontime5	20077.0	Sum of GTIs [s]
ontime6	20077.0	Sum of GTIs [s]
ontime7	20077.0	Sum of GTIs [s]
ontime8	20077.0	Sum of GTIs [s]
l2events	263029	Number of level 2 events



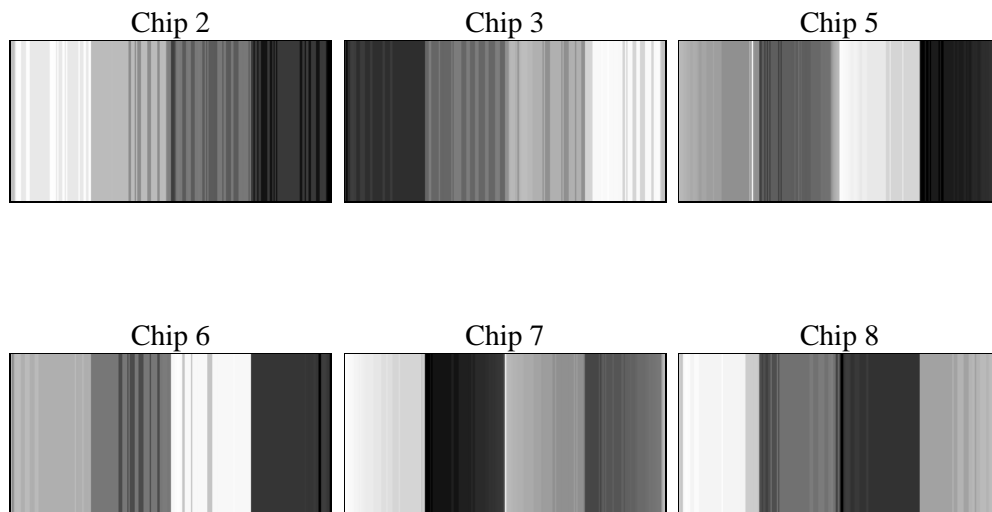
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20077.0	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	20077.0	Sum of GTIs [s]
date	2012-04-20T22:57:42	Date and time of file creation	ontime3	20077.0	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	20077.0	Sum of GTIs [s]
			ontime6	20077.0	Sum of GTIs [s]
			ontime7	20077.0	Sum of GTIs [s]
			ontime8	20077.0	Sum of GTIs [s]
			l1events	1534064	Number of level 1 events

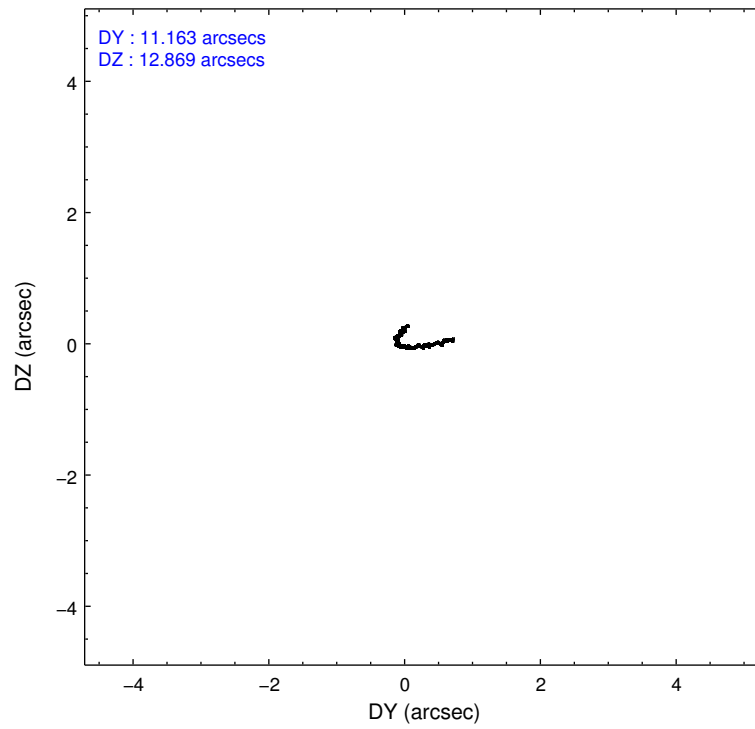
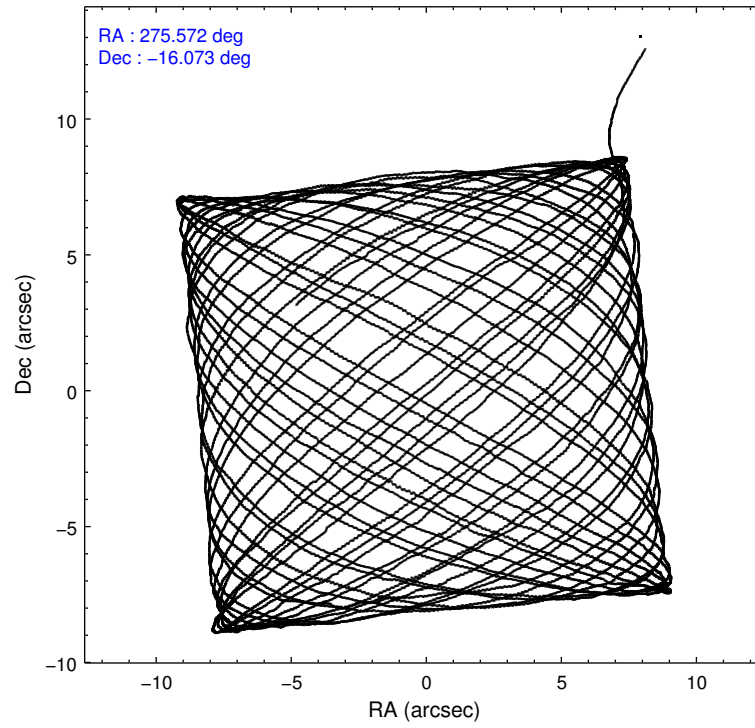
2.1.4 Events

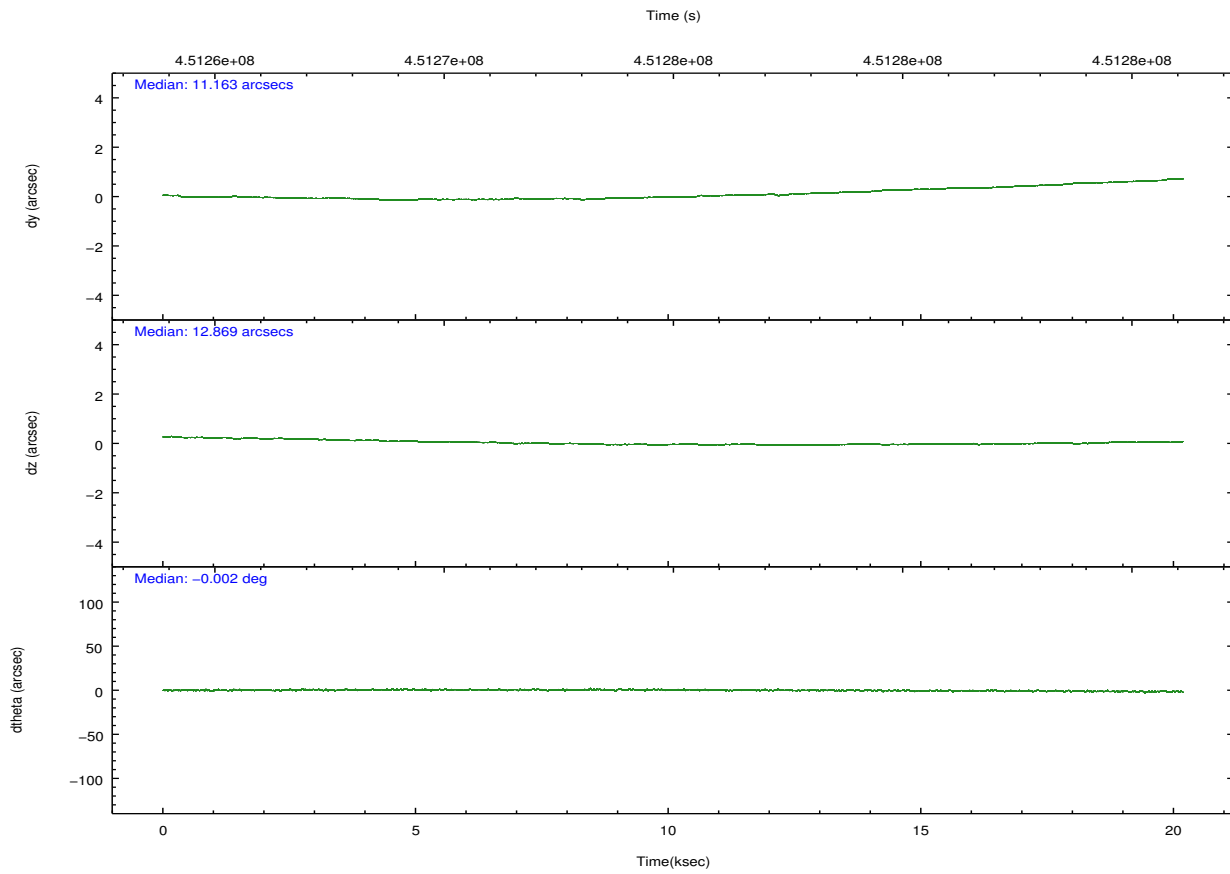
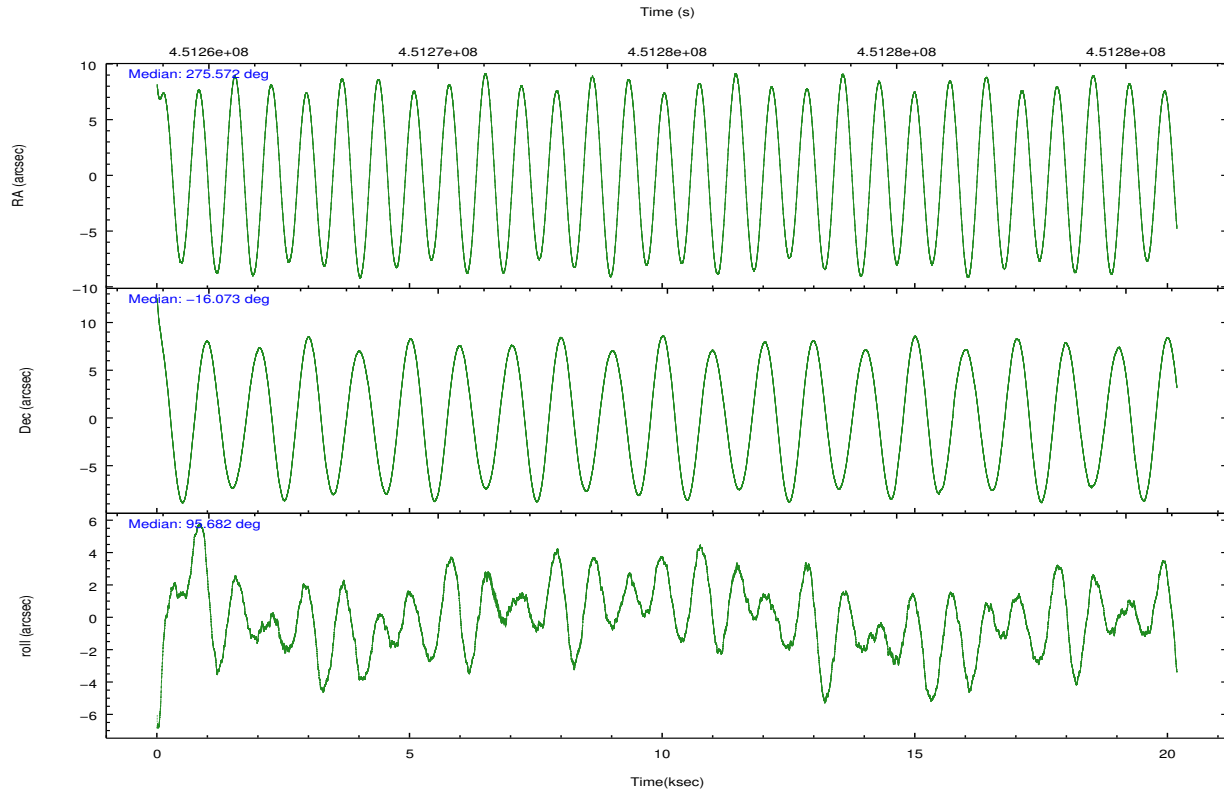
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	228364	216993	276594	210387	254397	347329	grade 0 events	2723	2699	6164	2770	8926	12988
rejected events	208206	195486	170866	187177	164464	288216		1%	1%	2%	1%	3%	3%
rejected %	91%	90%	61%	88%	64%	82%	grade 1 events	122	130	246	117	226	263
								0%	0%	0%	0%	0%	0%
							grade 2 events	7510	7750	34225	8761	24460	17810
								3%	3%	12%	4%	9%	5%
							grade 3 events	2496	3055	2550	3054	5454	6304
								1%	1%	0%	1%	2%	1%
							grade 4 events	2647	2770	2423	2786	5392	6038
								1%	1%	0%	1%	2%	1%
							grade 5 events	5602	6366	14545	6454	16051	9371
								2%	2%	5%	3%	6%	2%
							grade 6 events	4784	5235	60385	5841	45729	15984
								2%	2%	21%	2%	17%	4%
							grade 7 events	202480	188988	156056	180604	148159	278571
								88%	87%	56%	85%	58%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	275.589102	275.5722079417145	CCD I2 on	O2	Y
[deg] Pointing Dec	-16.094738	-16.07272540000102	CCD I3 on	O3	Y
[deg] Pointing Roll	95.536376	95.68832878030994	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	451265084.184000	451264190.249	CCD S5 on	N	N
Observation start date	2012-04-19T23:23:38	2012-04-19T23:09:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	451285084.184000	451285592.2501	On-chip summing requested	N	N
Observation end date	2012-04-20T04:56:58	2012-04-20T05:06:32	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



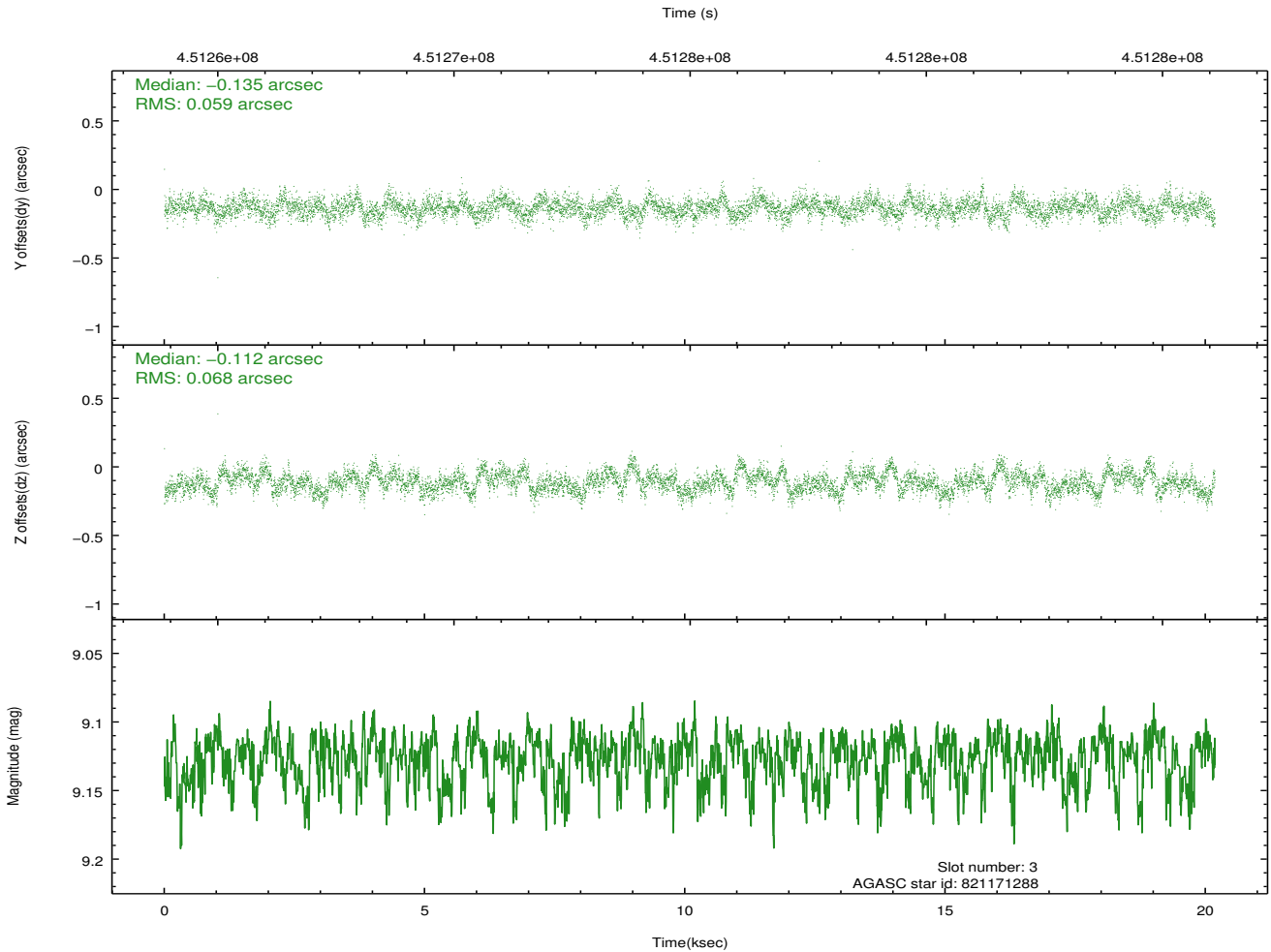
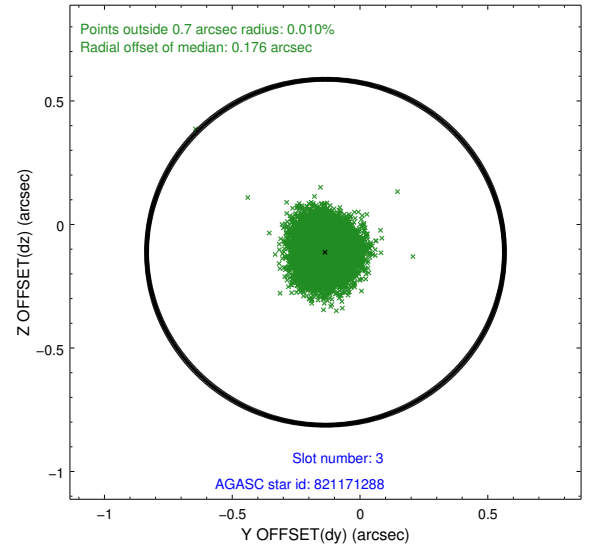
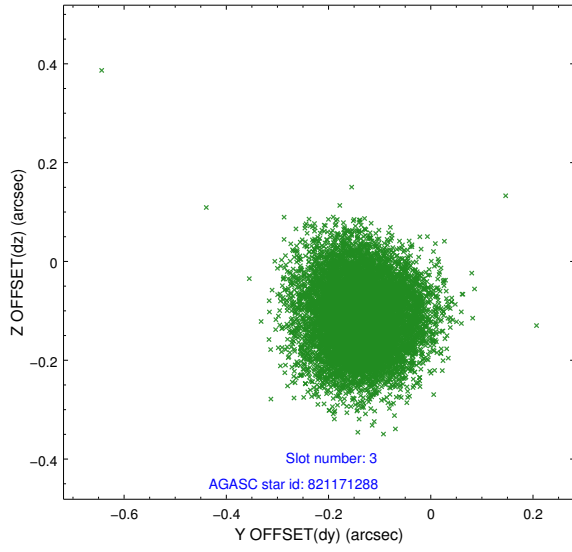


Slot Statistics

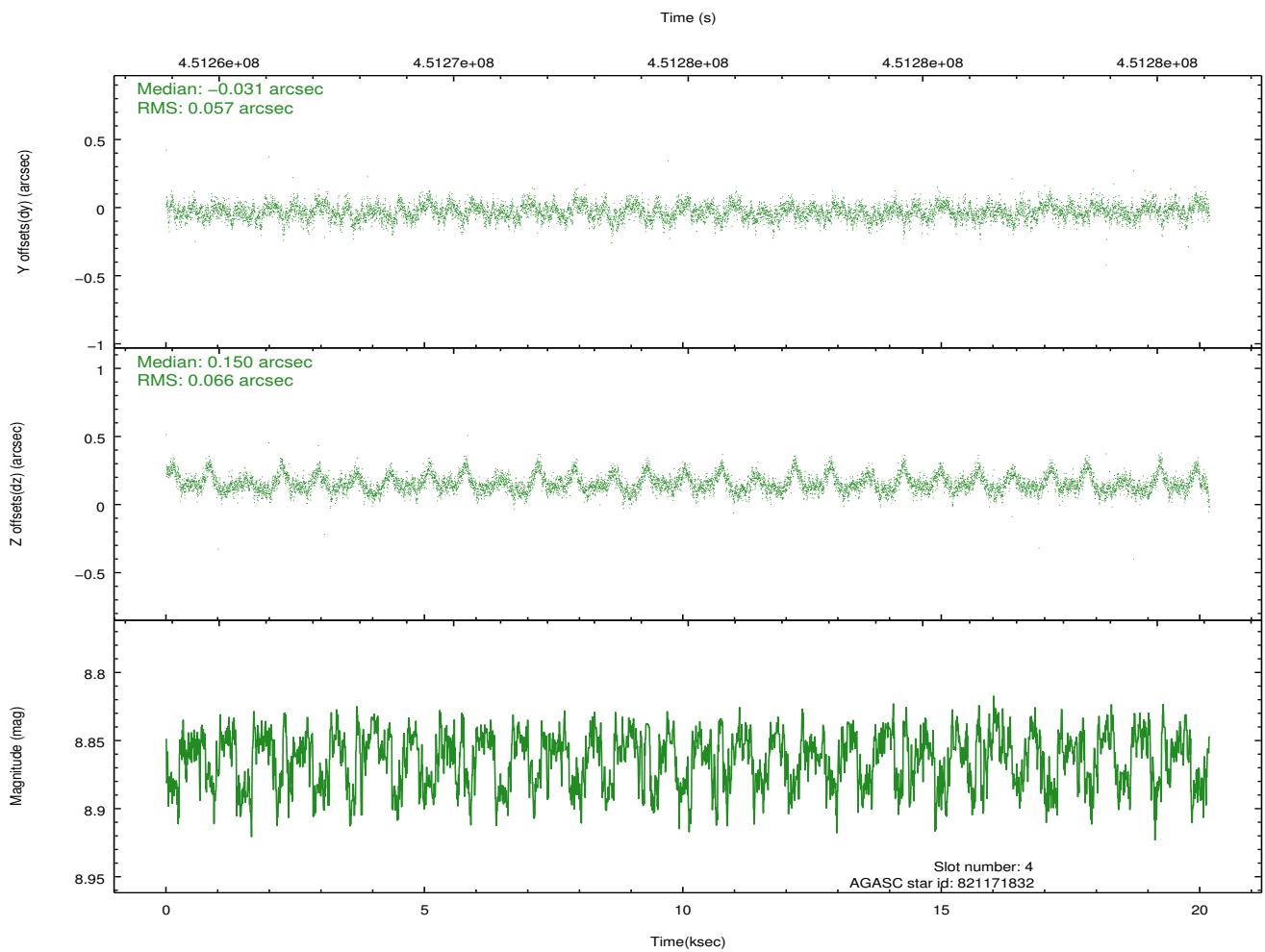
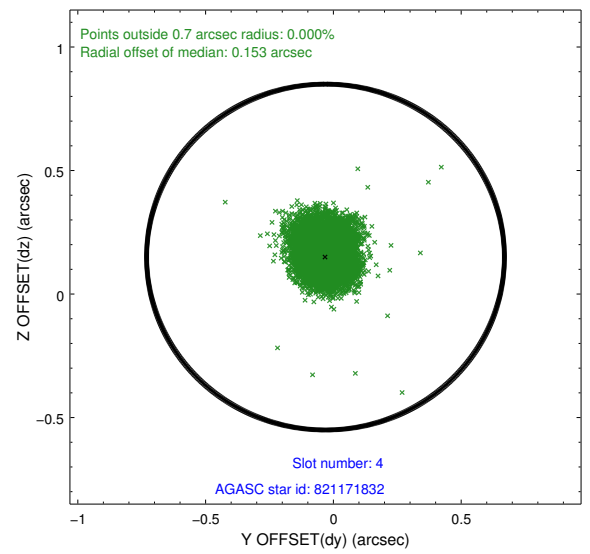
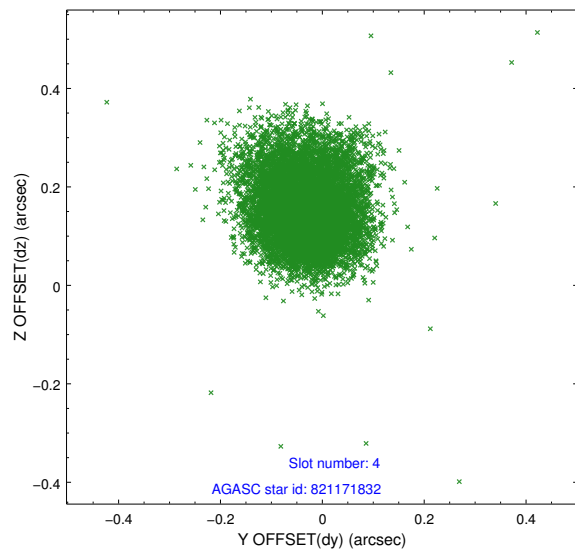
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.03	4923	0.048	-0.014	0.010	0.016	0.000000	0.000000	931.84	-1729.92
1	FID	ACIS-S-2	6.95	4923	-0.125	-0.035	0.008	0.012	0.000000	0.000000	-764.13	-1734.59
2	FID	ACIS-S-4	7.03	4923	0.050	0.055	0.007	0.012	0.000000	0.000000	2149.10	174.06
3	GUIDE	821171288	9.13	9830	-0.135	-0.112	0.097	0.154	275.426002	-15.652858	1637.65	409.51
4	GUIDE	821171832	8.86	9843	-0.031	0.150	0.090	0.154	275.792275	-15.610164	1668.42	-868.94
5	GUIDE	821180448	7.18	9845	0.056	-0.037	0.066	0.104	275.453560	-16.324585	-778.25	545.85
6	GUIDE	821169272	7.29	9846	0.039	-0.034	0.054	0.086	275.312025	-16.375484	-914.29	1050.17
7	GUIDE	821181752	7.59	9843	0.068	0.024	0.055	0.092	275.331456	-16.373905	-915.00	982.93

2.4 Star Slots

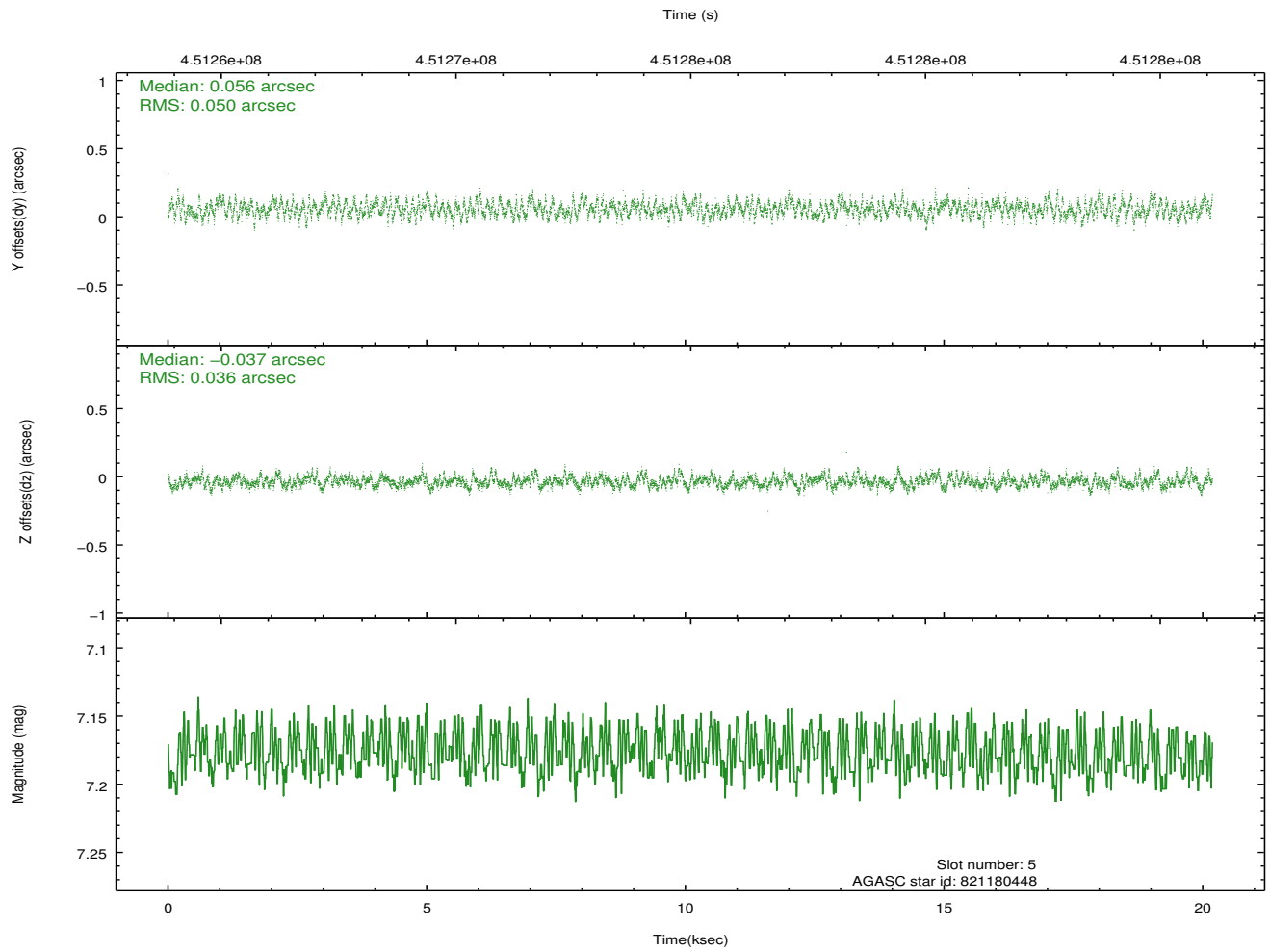
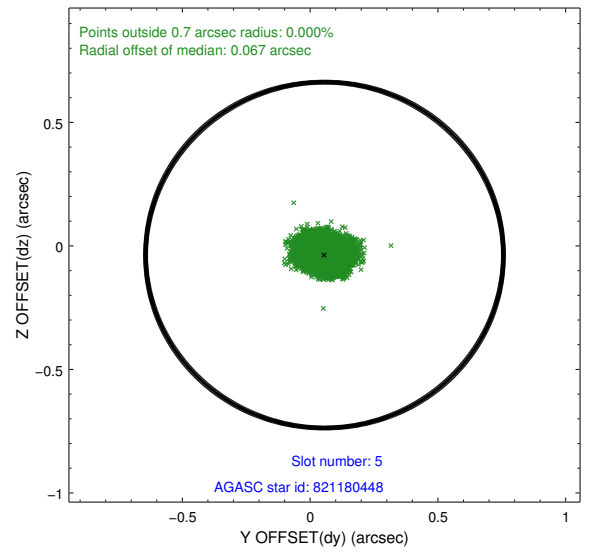
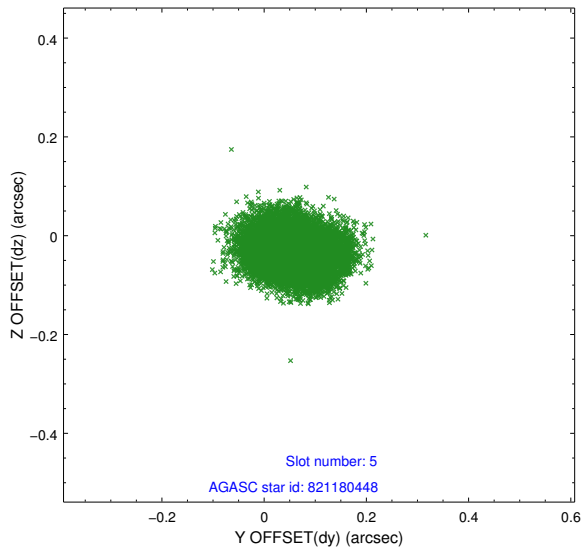
2.4.1 Slot 3



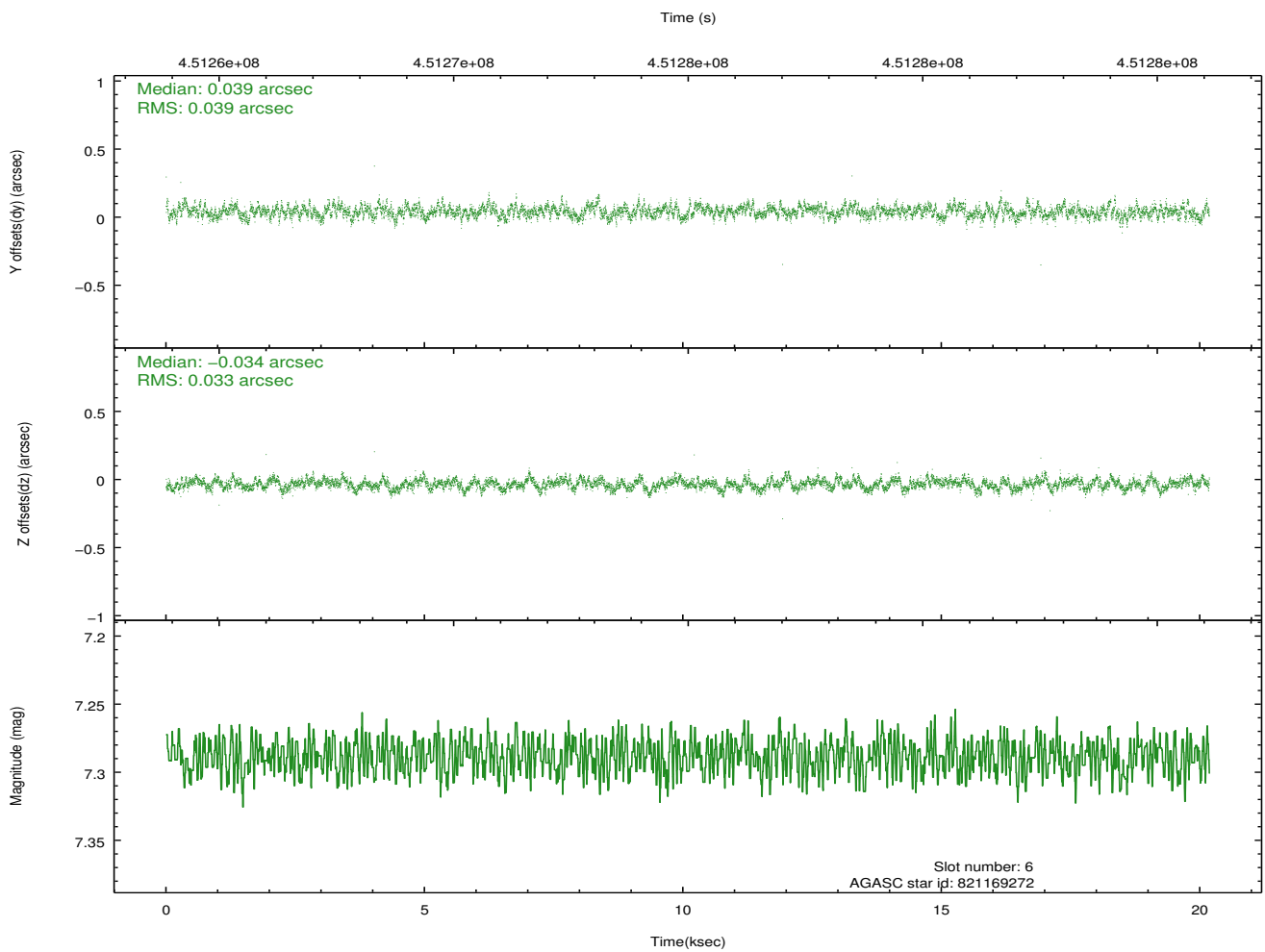
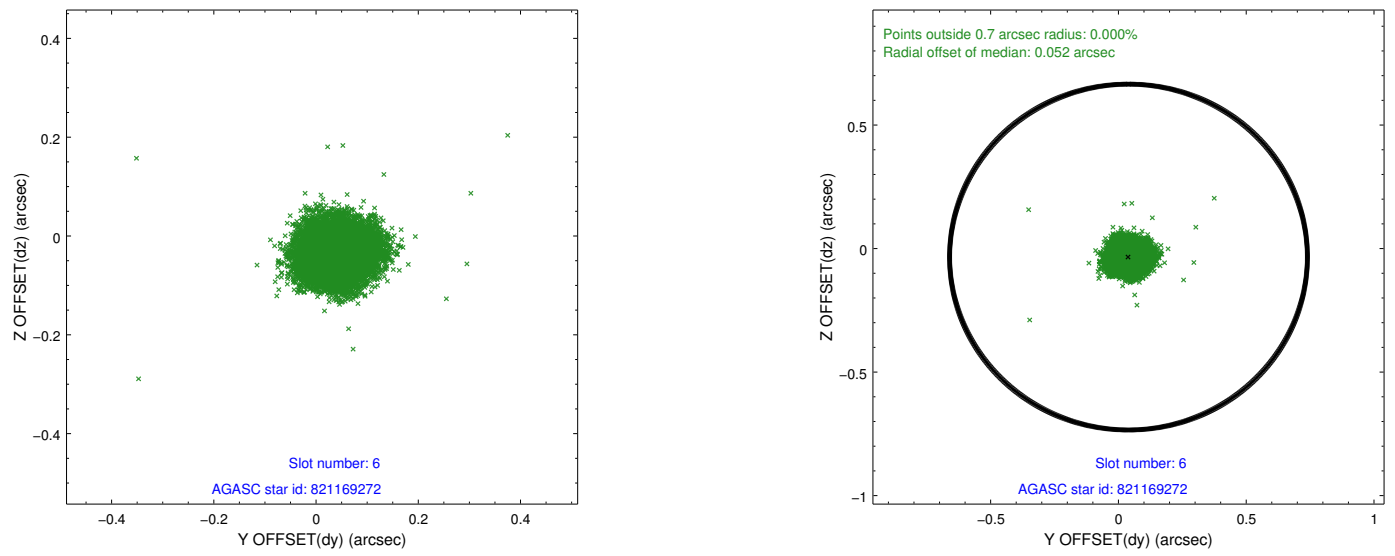
2.4.2 Slot 4



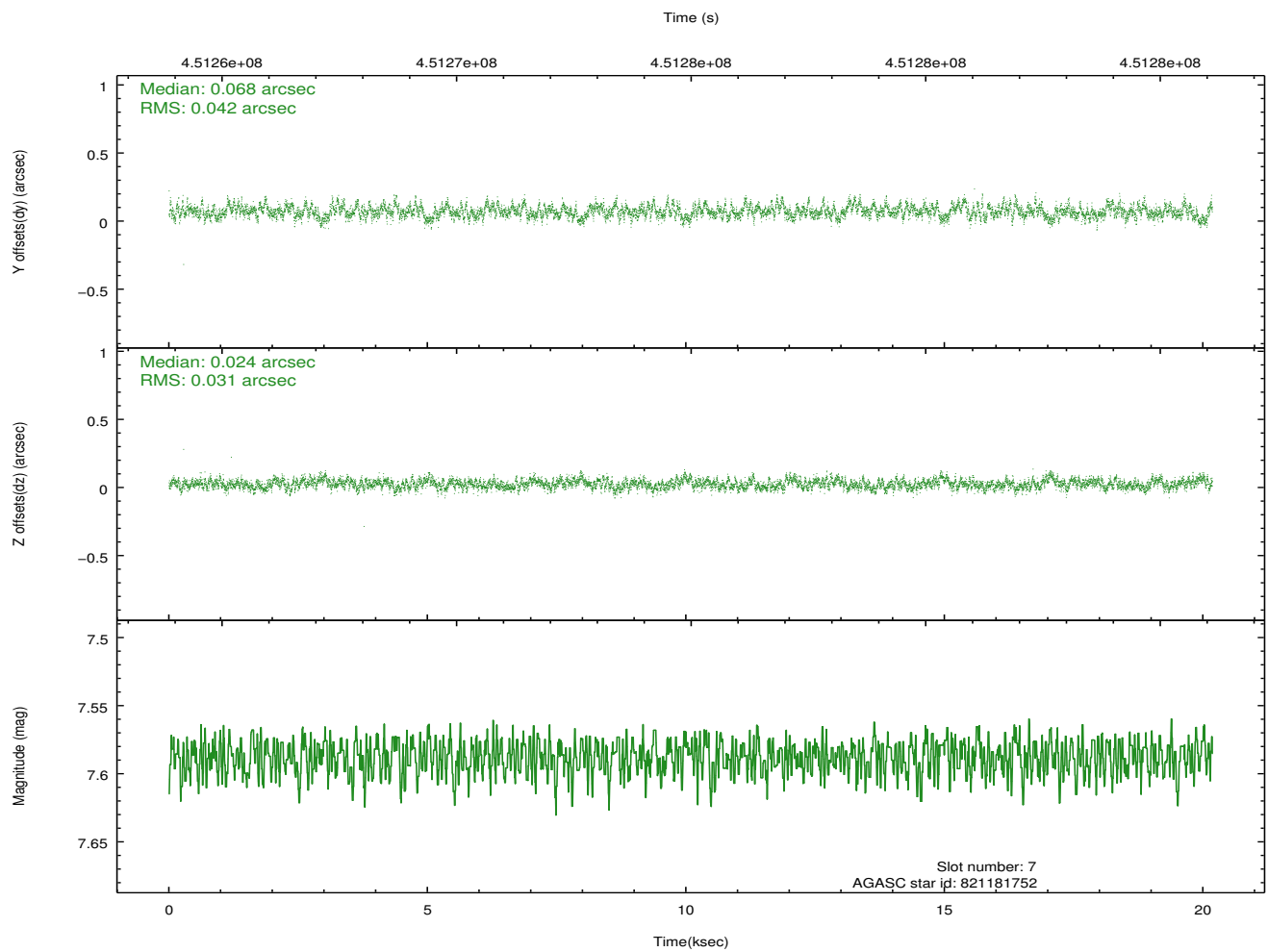
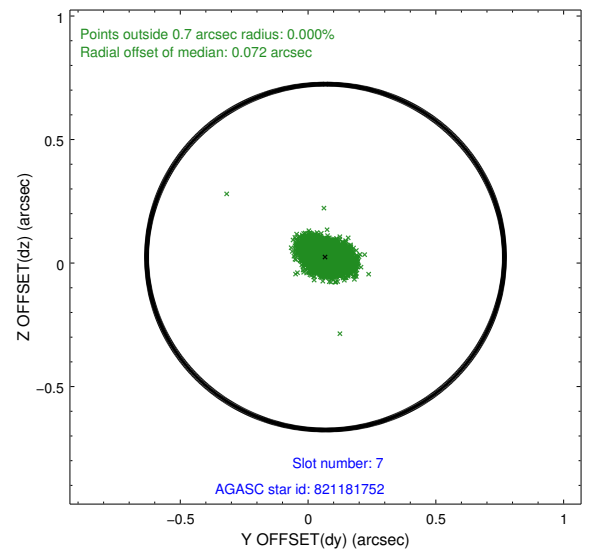
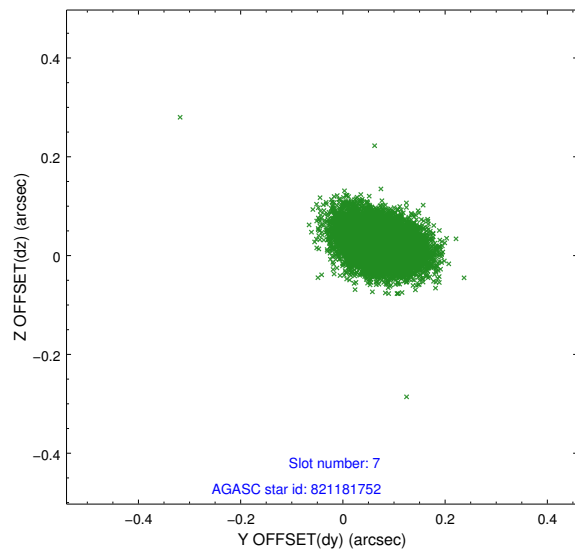
2.4.3 Slot 5



2.4.4 Slot 6

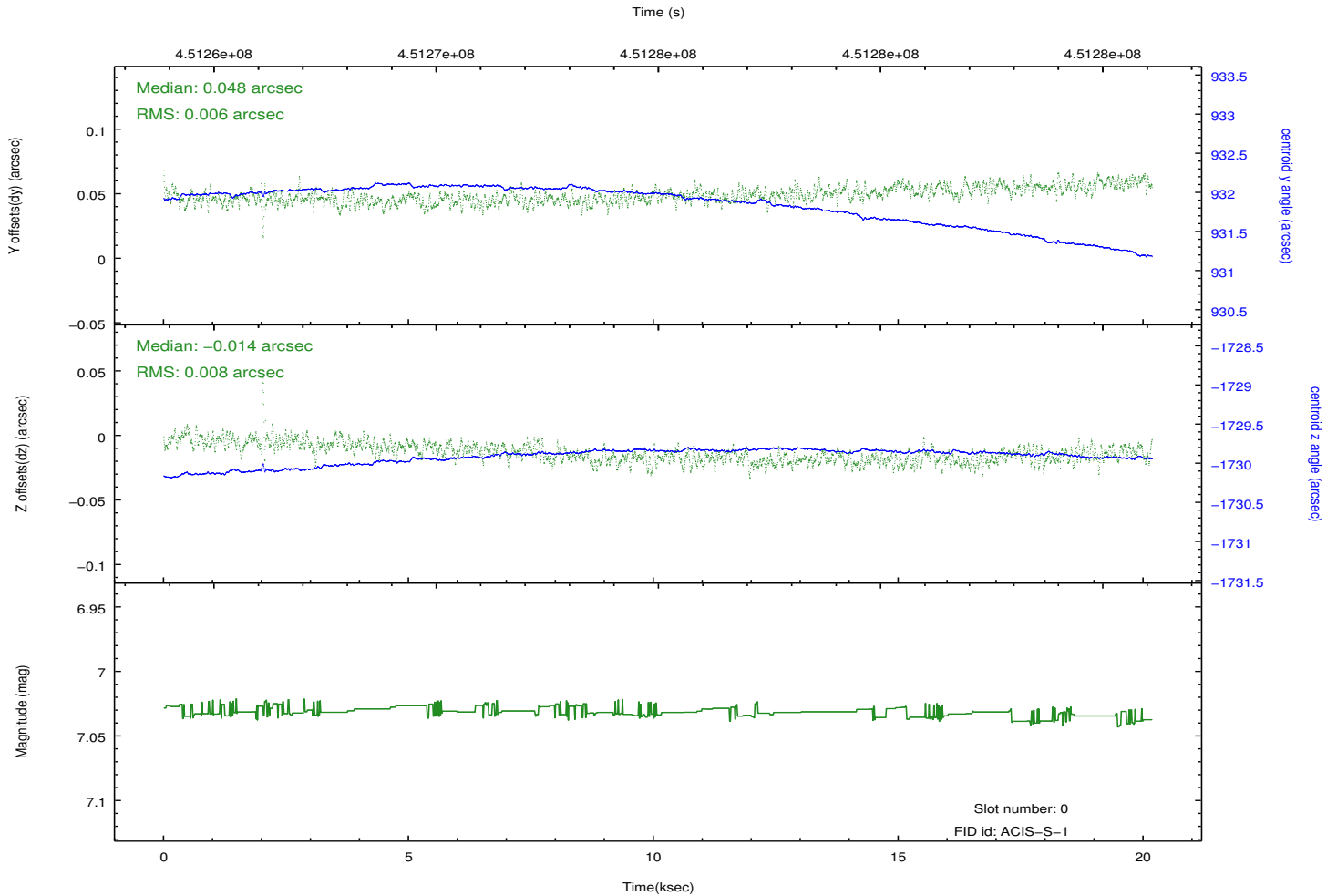
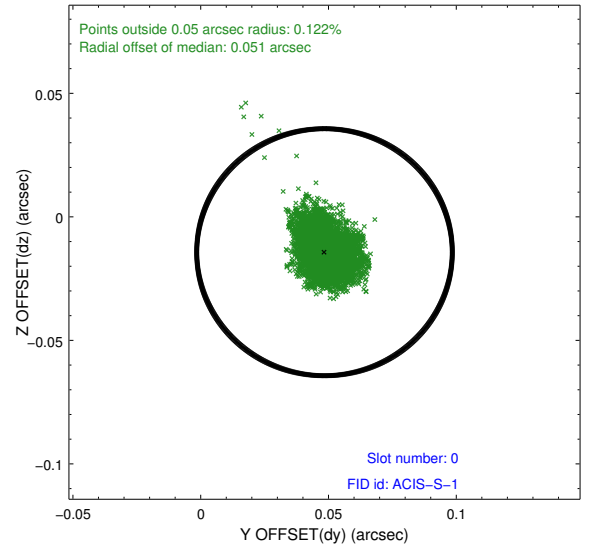
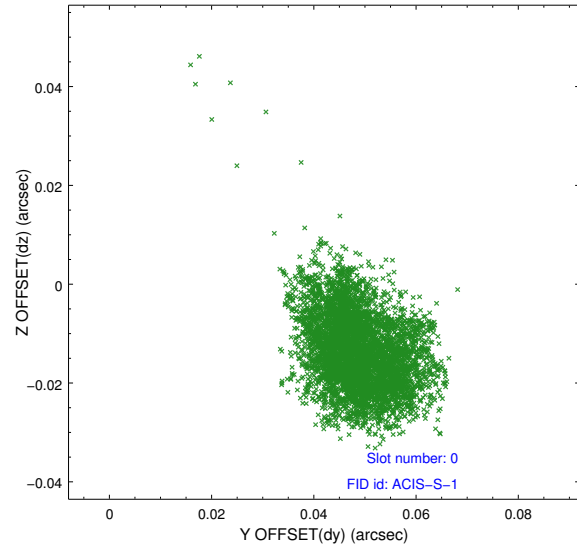


2.4.5 Slot 7

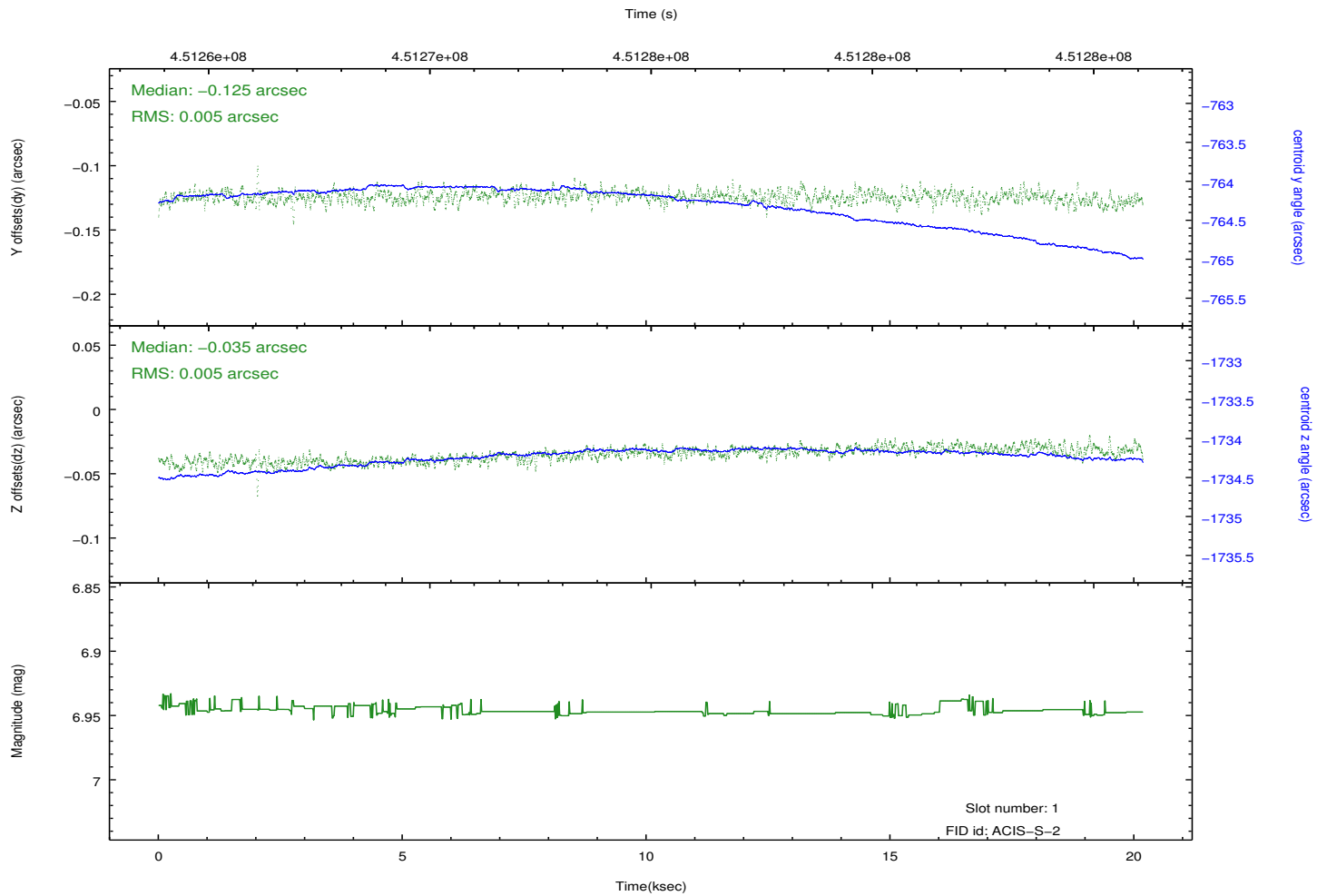
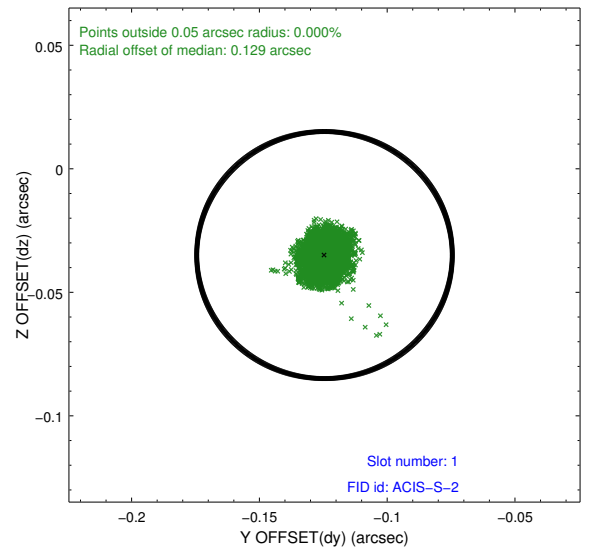
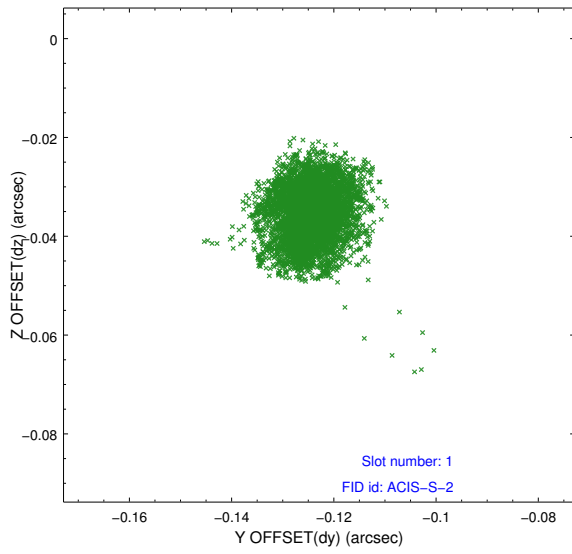


2.5 FID Slots

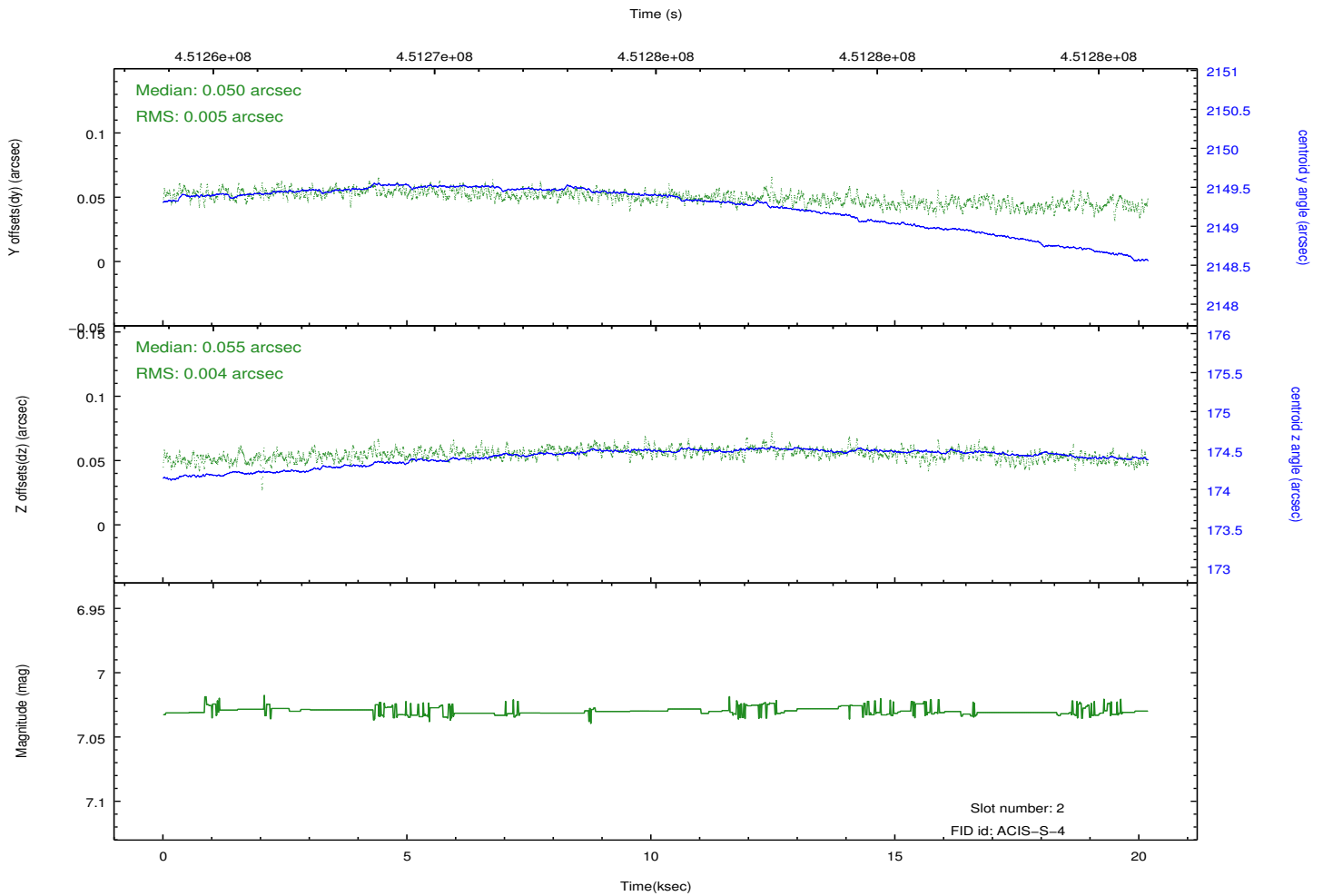
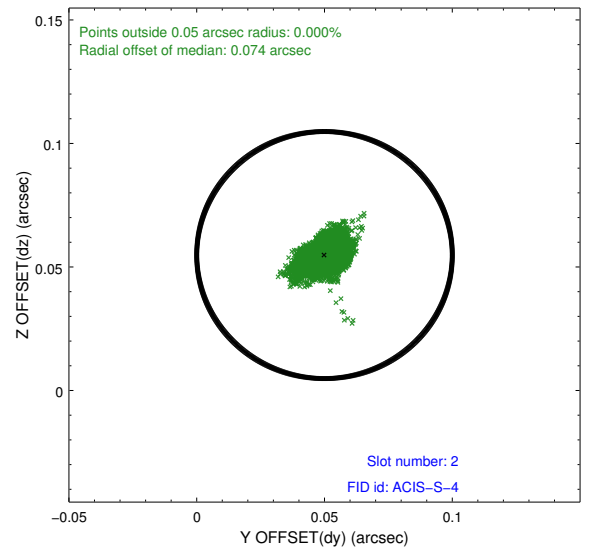
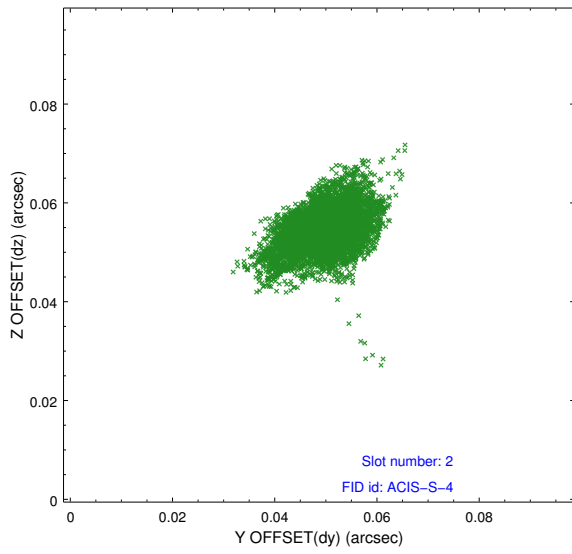
2.5.1 Slot 0



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)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.077

A.2 Comments