

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13682 - L2 Version 1
Chandra X-Ray Center

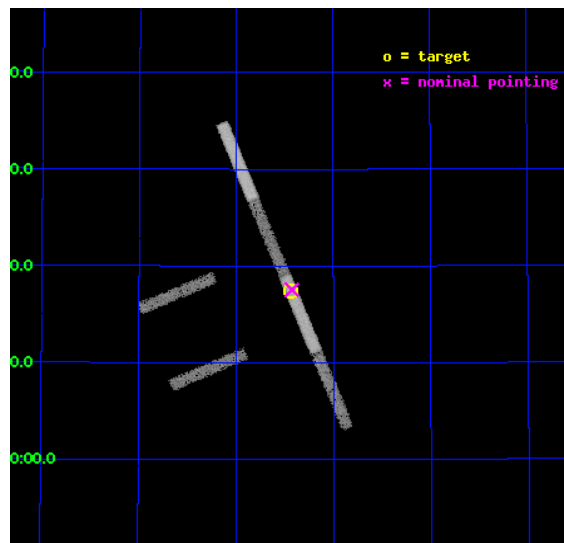
L2 Processing Date : Apr 9 2012

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1 Front

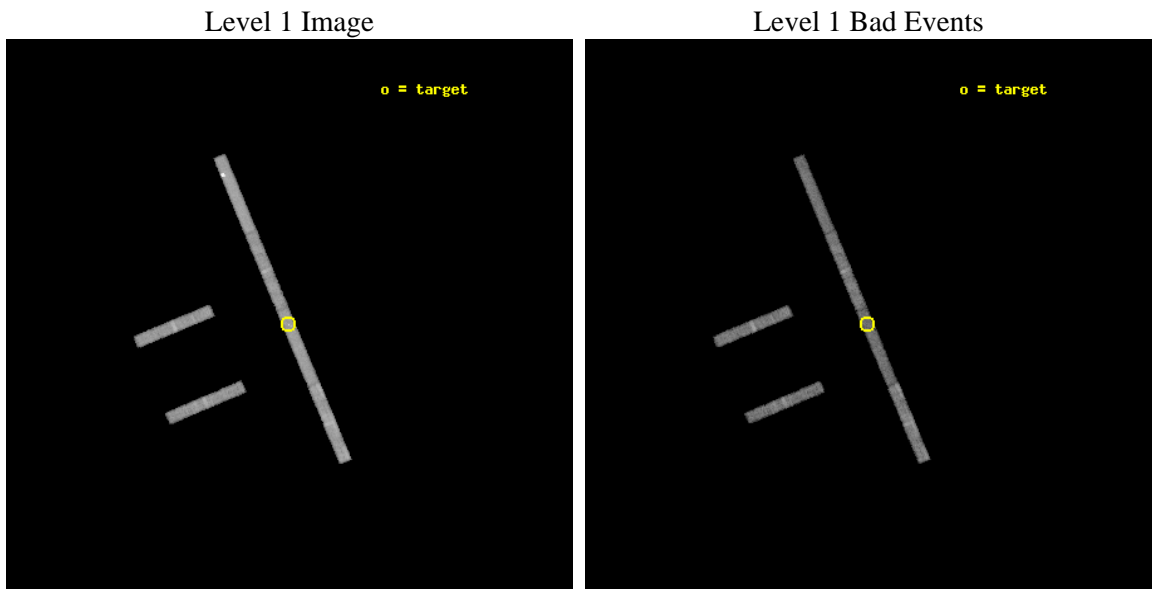
seq_num	401368	Sequence number
obs_id	13682	Observation id
title	A Further Drop into Quiescence by the Neutron Star and Possible Hierarchical Triple 4U2129+47	Proposal title
observer	Dr. Michael Nowak	Principal investigator
object	4U 2129+47	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.859167	Observer's specified target RA [deg]
dec_targ	47.29	Observer's specified target Dec [deg]
ra_nom	322.85663794122	Nominal RA [deg]
dec_nom	47.292463833809	Nominal Dec [deg]
roll_nom	67.276854887323	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22051.757395983	Sum of GTIs [s]
livetime	20830.495219135	Livetime [s]
ontime2	22051.798435986	Sum of GTIs [s]
ontime3	22051.634275973	Sum of GTIs [s]
ontime5	22051.716355979	Sum of GTIs [s]
ontime6	22050.934275985	Sum of GTIs [s]
ontime7	22051.757395983	Sum of GTIs [s]
ontime8	22051.59323597	Sum of GTIs [s]
l2events	31703	Number of level 2 events



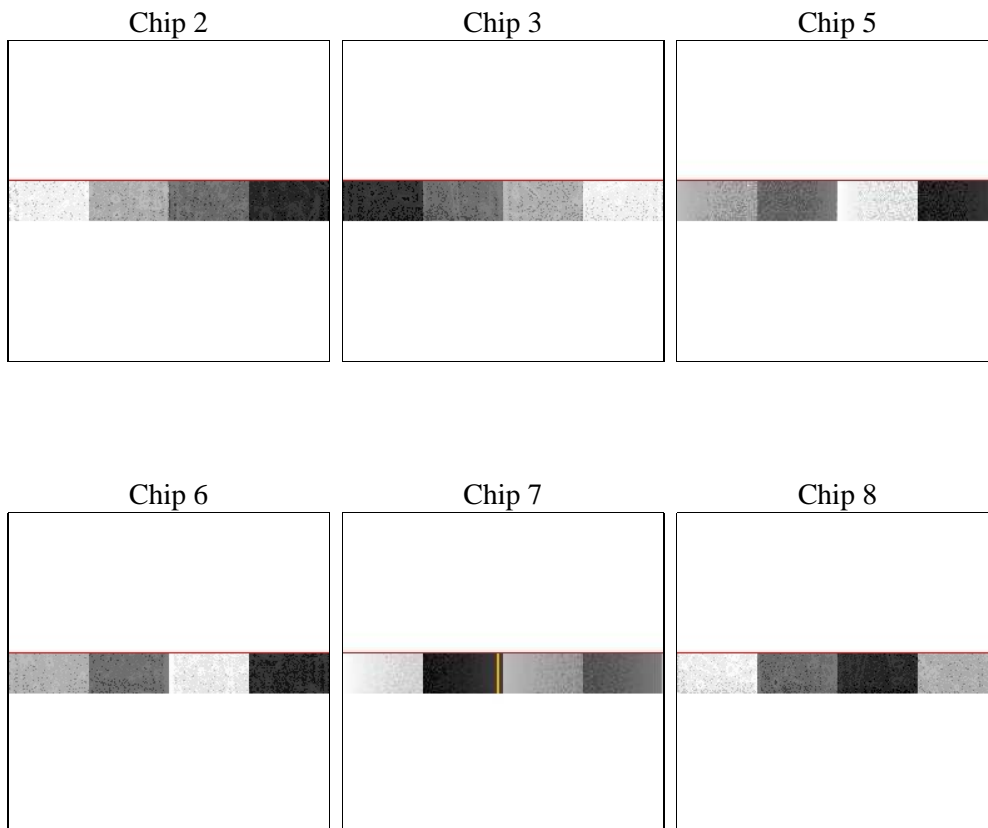
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	22051.757395983	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	22051.798435986	Sum of GTIs [s]
date	2012-04-09T20:57:34	Date and time of file creation	ontime3	22051.634275973	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	22051.716355979	Sum of GTIs [s]
			ontime6	22050.934275985	Sum of GTIs [s]
			ontime7	22051.757395983	Sum of GTIs [s]
			ontime8	22051.59323597	Sum of GTIs [s]
			l1events	150252	Number of level 1 events

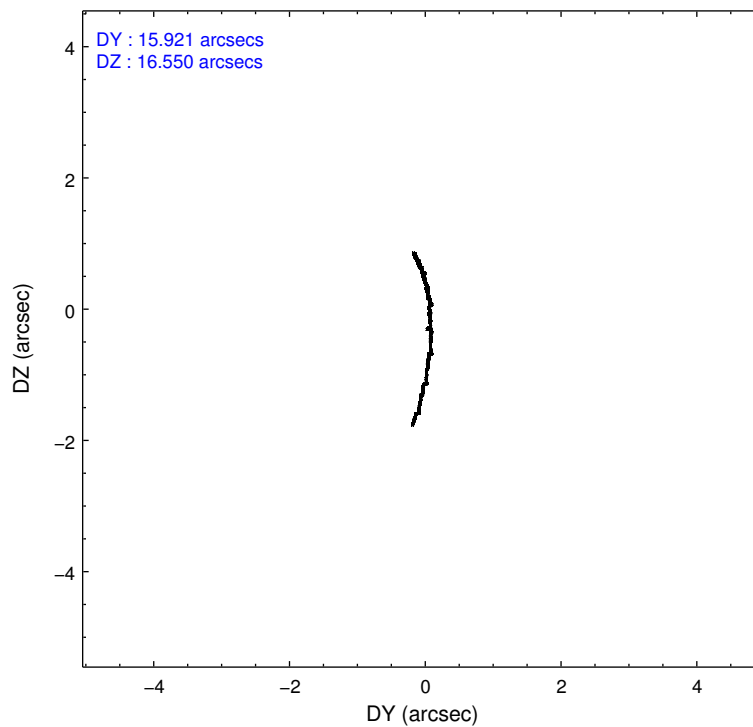
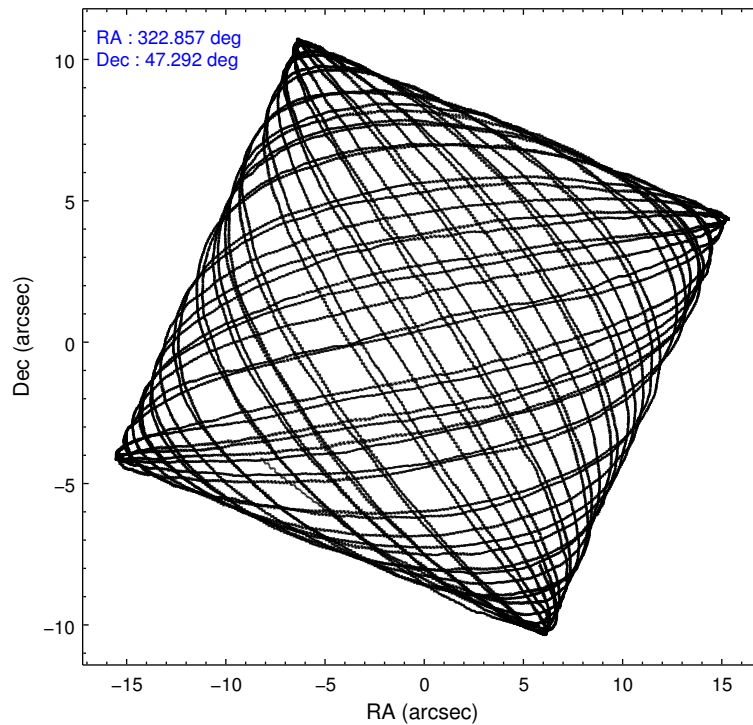
2.1.4 Events

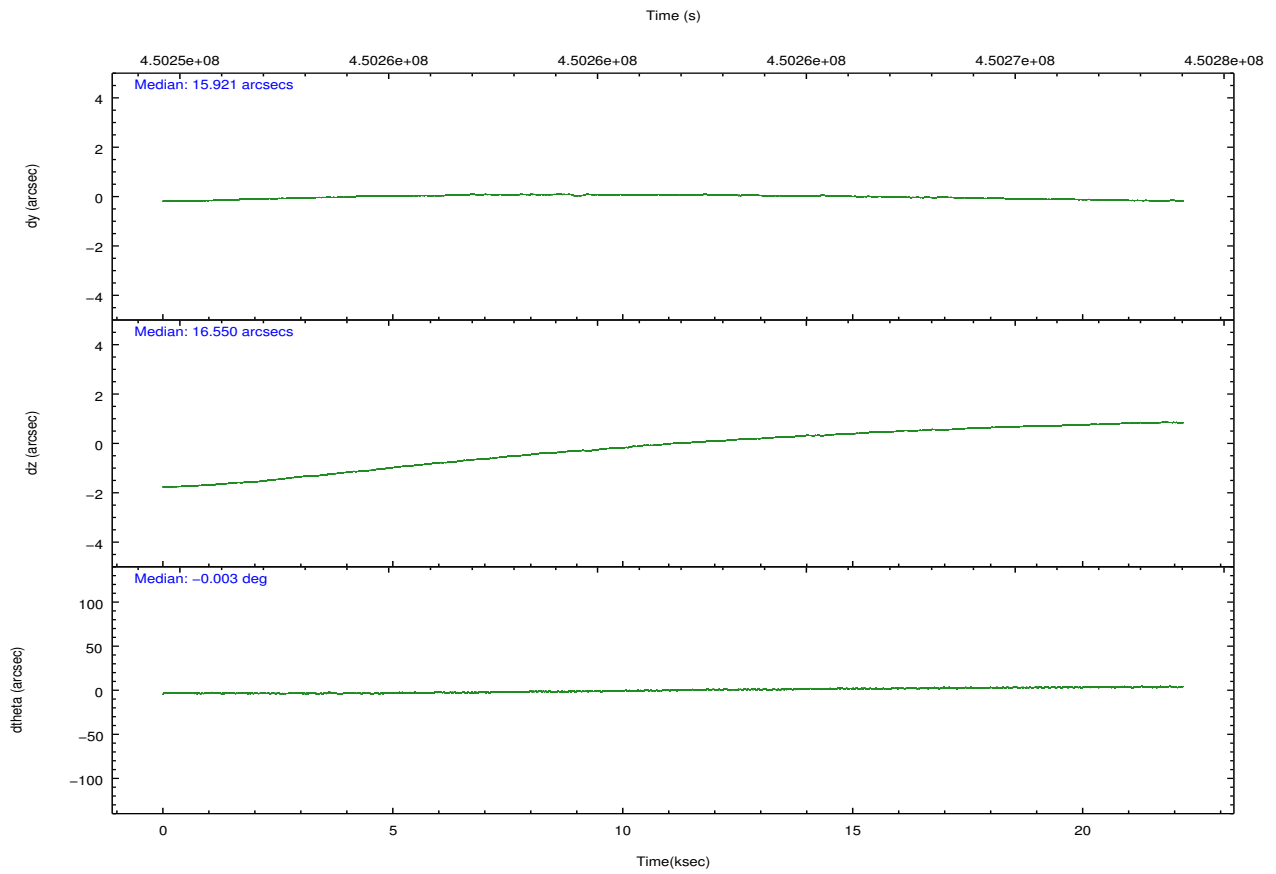
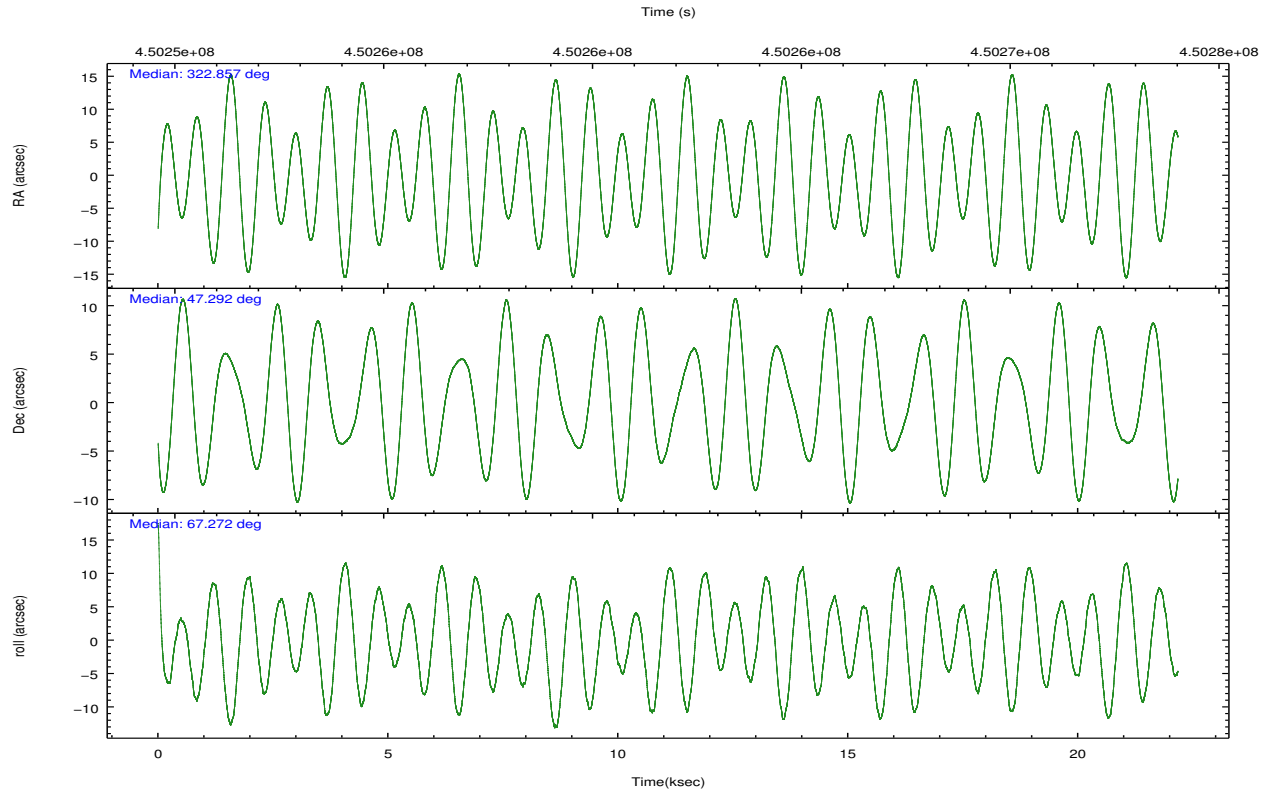
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21954	18915	35196	20819	23847	29521	grade 0 events	717	661	7898	684	1263	1703
rejected events	19494	16760	14016	18446	12697	22819		3%	3%	22%	3%	5%	5%
rejected %	88%	88%	39%	88%	53%	77%	grade 1 events	4	8	71	9	30	19
								0%	0%	0%	0%	0%	0%
							grade 2 events	511	401	4658	423	2295	1374
								2%	2%	13%	2%	9%	4%
							grade 3 events	374	407	901	397	1291	827
								1%	2%	2%	1%	5%	2%
							grade 4 events	386	339	1077	392	1241	705
								1%	1%	3%	1%	5%	2%
							grade 5 events	797	794	2549	872	2419	1126
								3%	4%	7%	4%	10%	3%
							grade 6 events	472	347	6646	477	5060	2093
								2%	1%	18%	2%	21%	7%
							grade 7 events	18693	15958	11396	17565	10248	21674
								85%	84%	32%	84%	42%	73%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	322.862270	322.8566379412215	CCD I2 on	O1	Y
[deg] Pointing Dec	47.265419	47.29246383380884	CCD I3 on	O2	Y
[deg] Pointing Roll	67.116087	67.27685488732303	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O3	Y
[s] Observation start time (MET)	450250901.184000	450249701.57015	CCD S5 on	N	N
Observation start date	2012-04-08T05:40:35	2012-04-08T05:21:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	450272901.184000	450273821.87143	On-chip summing requested	N	N
Observation end date	2012-04-08T11:47:15	2012-04-08T12:03:41	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	449	449
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.7

2.3 Aspect



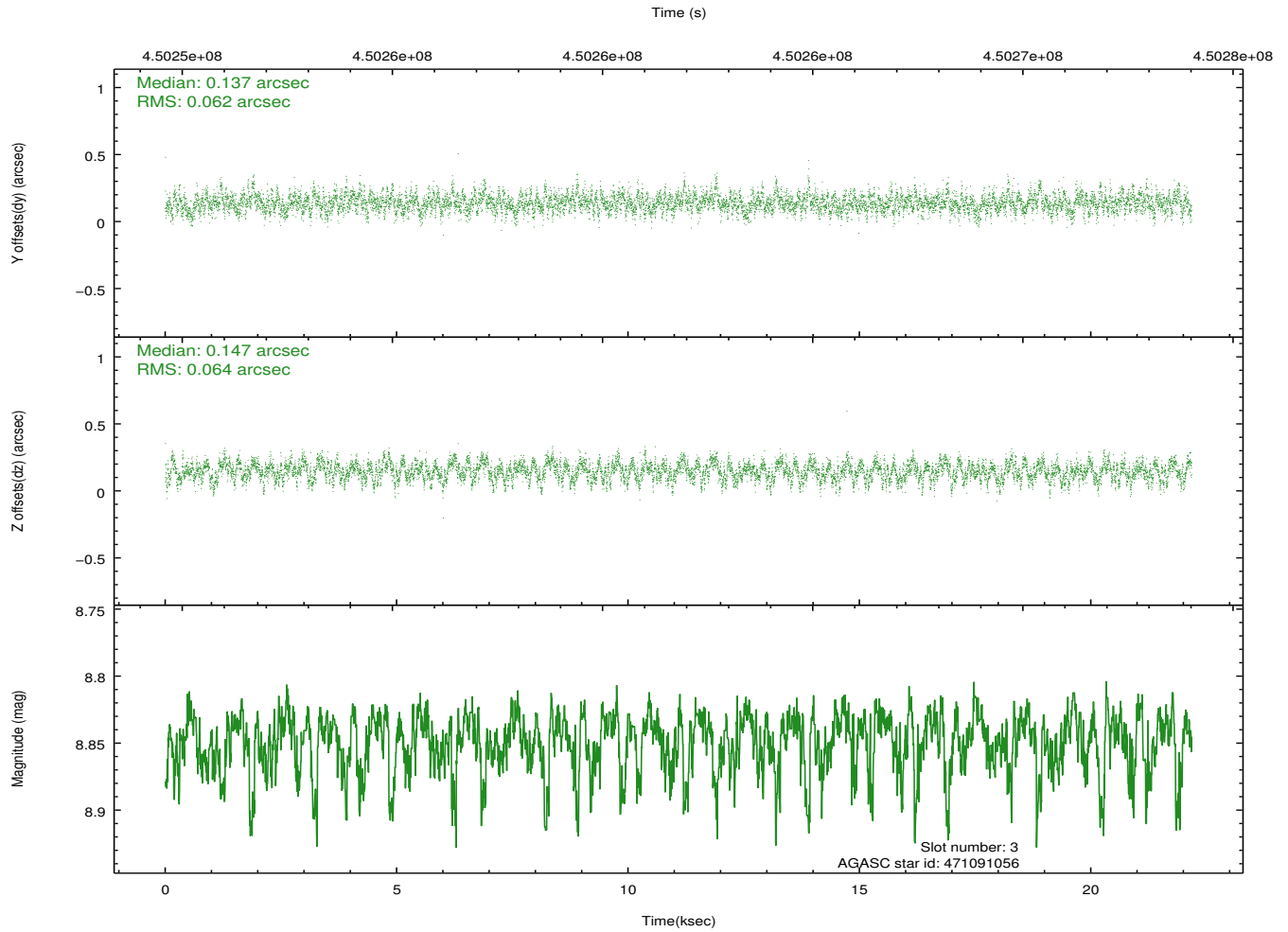
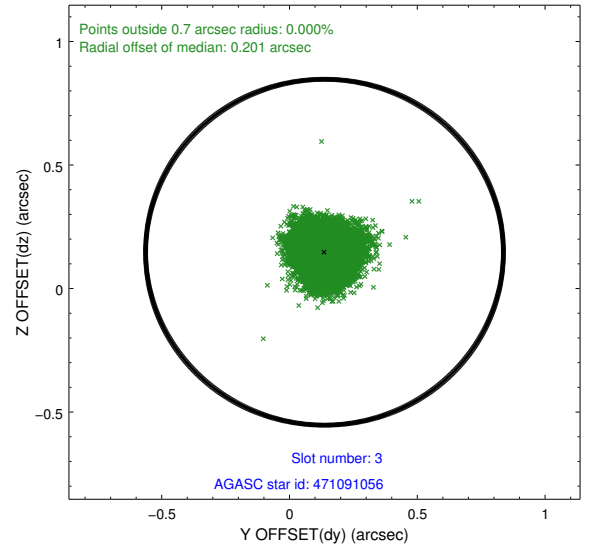
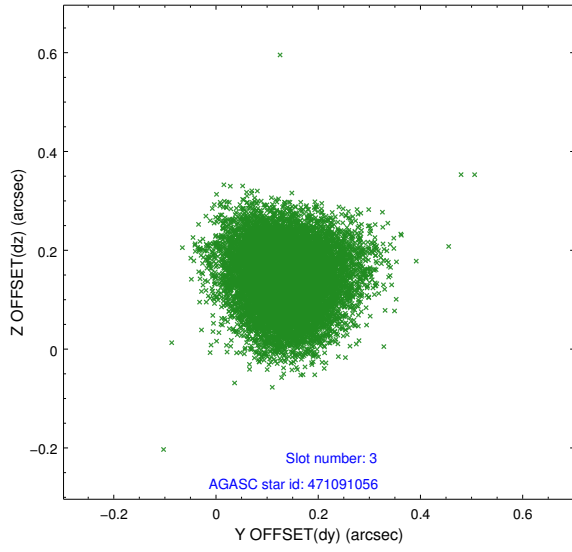


Slot Statistics

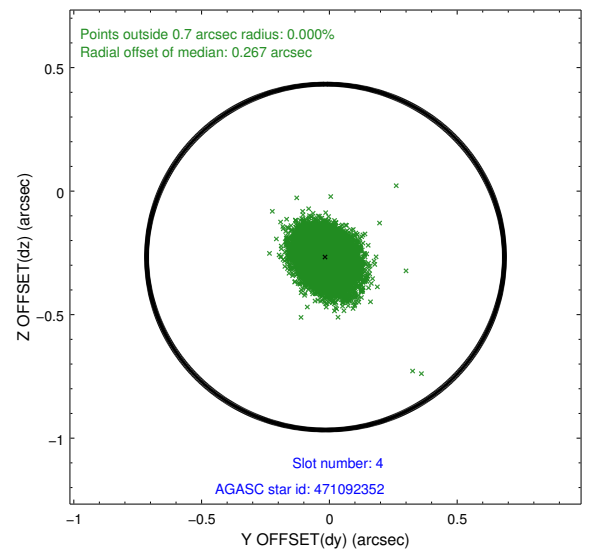
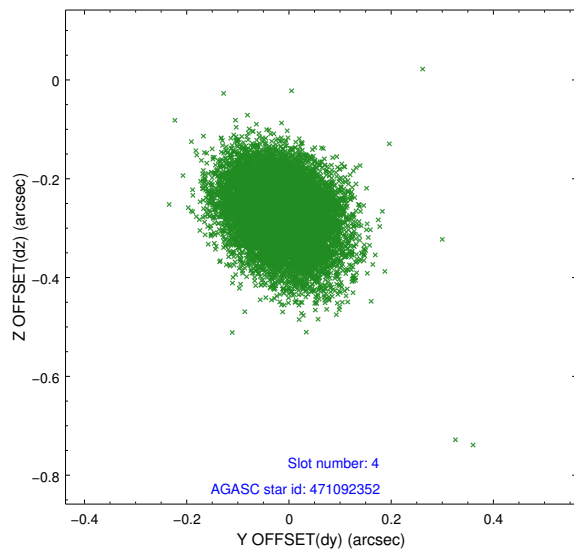
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.99	5405	-0.111	-0.022	0.021	0.028	0.000000	0.000000	-769.03	-1737.78
1	FID	ACIS-S-4	7.07	5407	0.217	0.060	0.009	0.019	0.000000	0.000000	2144.53	170.58
2	FID	ACIS-S-5	7.11	5407	-0.138	-0.029	0.020	0.027	0.000000	0.000000	-1821.67	164.41
3	GUIDE	471091056	8.85	10800	0.137	0.147	0.096	0.150	323.297085	47.790378	2153.21	-232.38
4	GUIDE	471092352	8.95	10776	-0.015	-0.267	0.089	0.145	322.351083	47.923284	1706.39	2058.75
5	GUIDE	471093808	9.15	10811	0.112	-0.218	0.125	0.211	322.810499	47.588788	1024.15	568.73
6	GUIDE	471222144	8.96	10801	-0.168	0.300	0.095	0.153	323.817294	47.572573	1934.18	-1700.78
7	GUIDE	471084104	8.91	10812	-0.072	0.038	0.102	0.171	321.633948	46.932747	-2255.60	2325.22

2.4 Star Slots

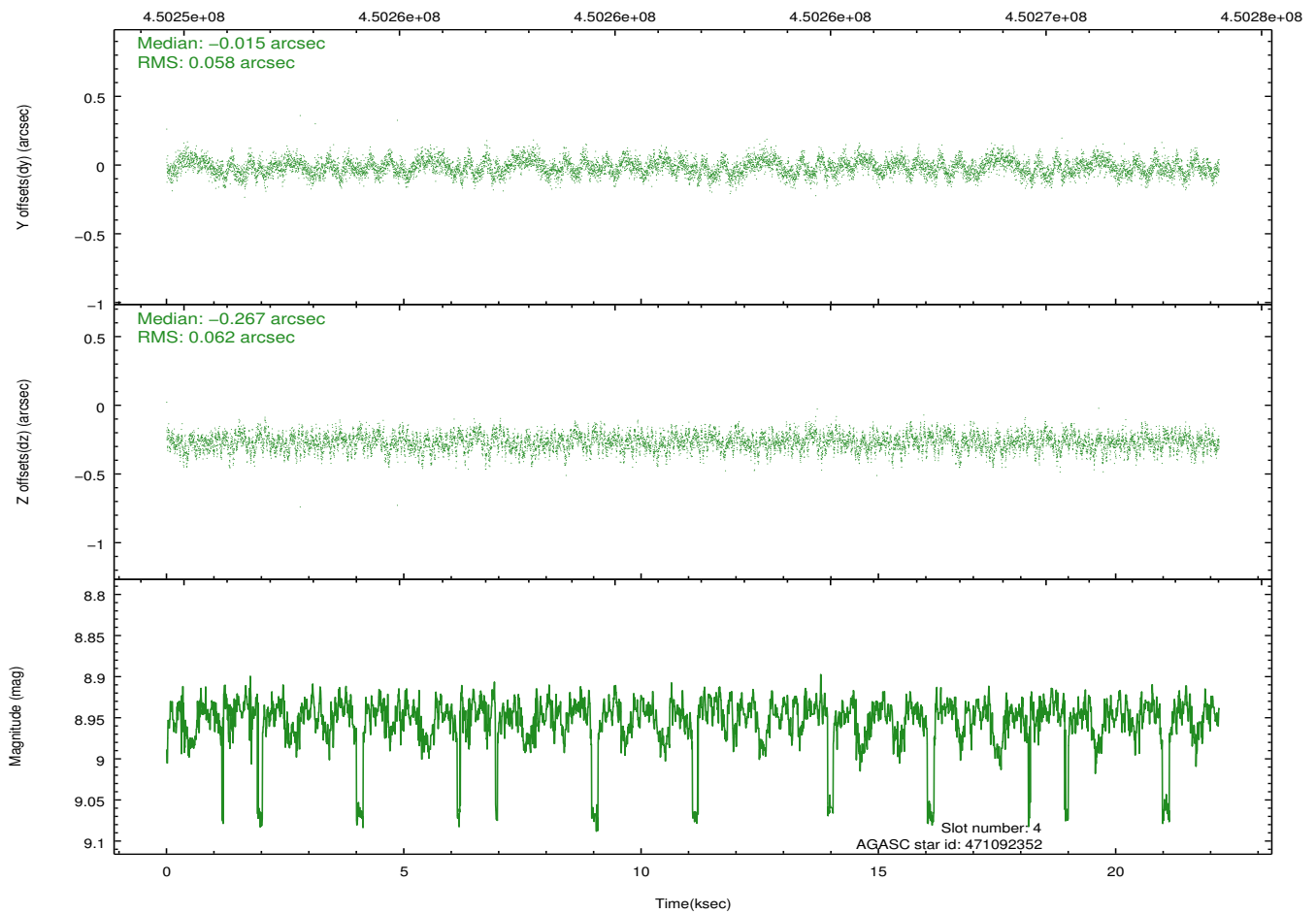
2.4.1 Slot 3



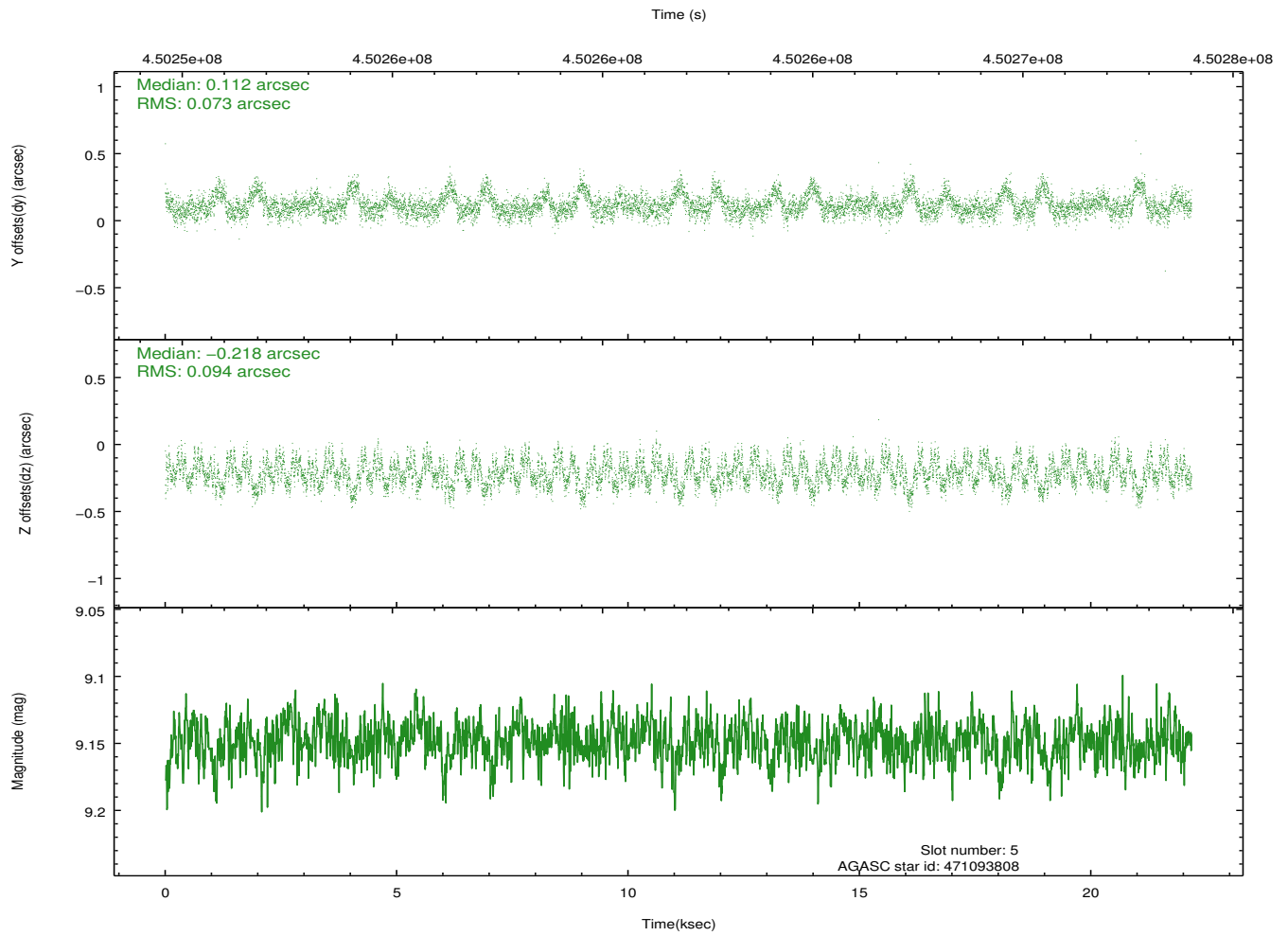
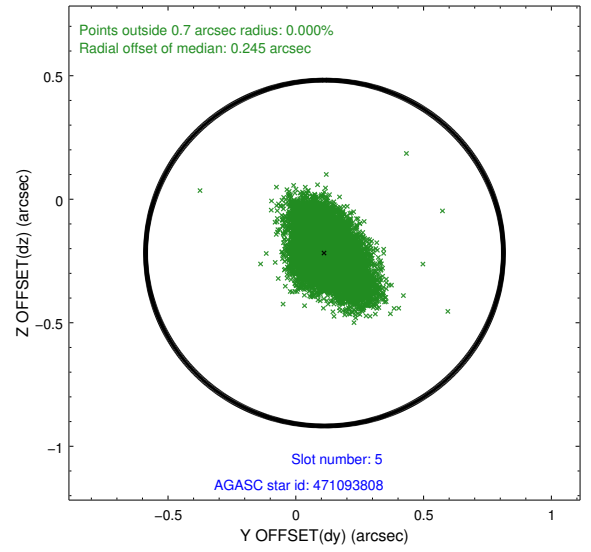
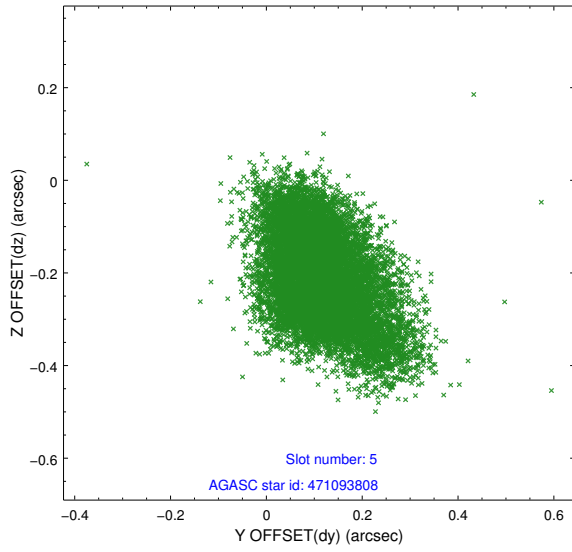
2.4.2 Slot 4



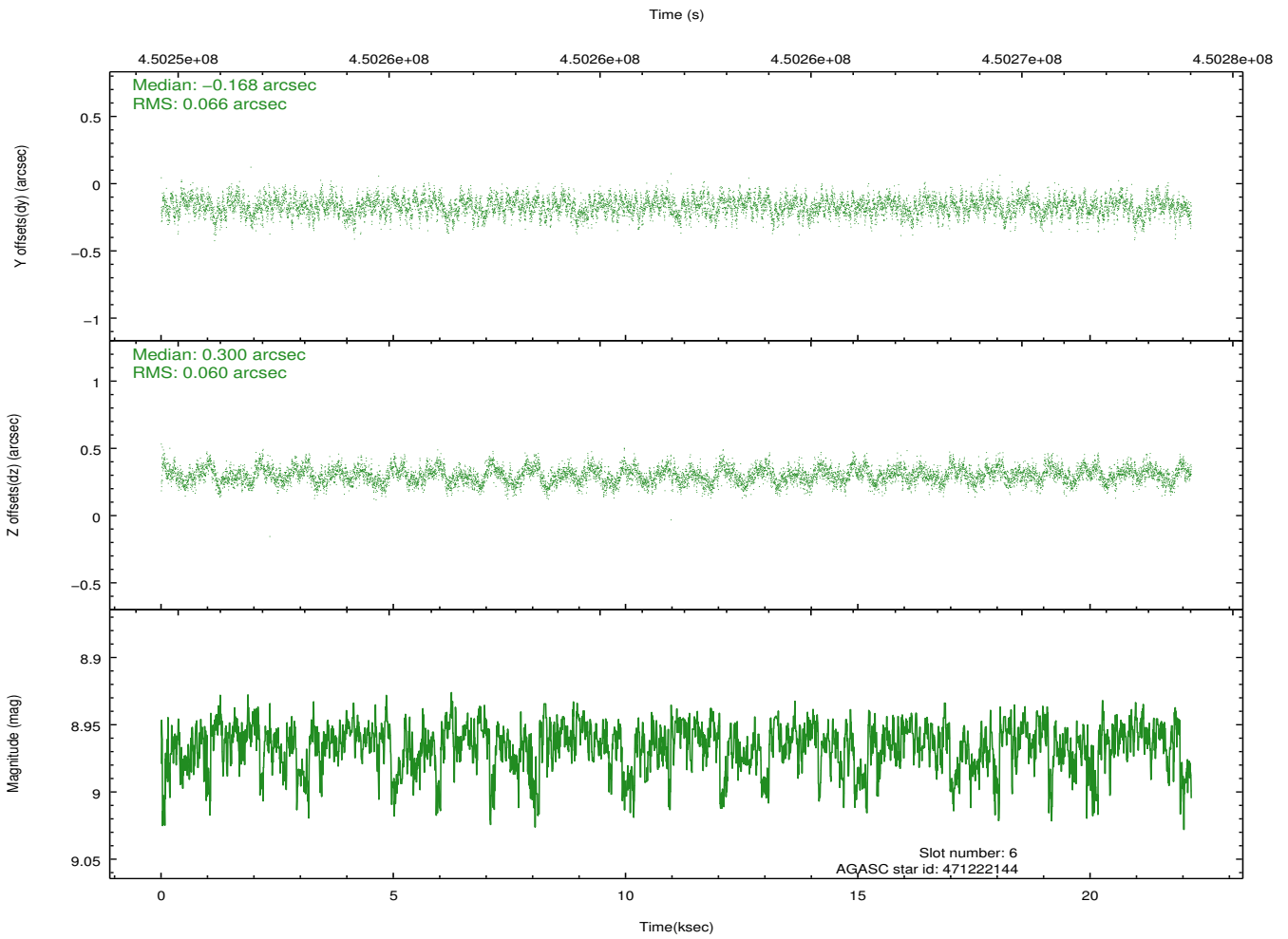
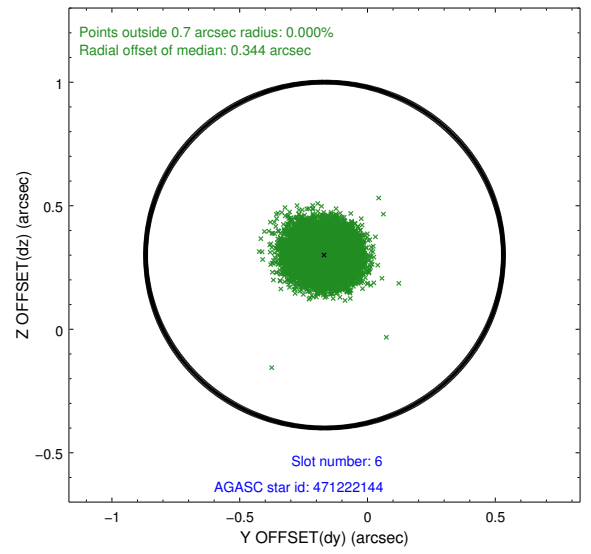
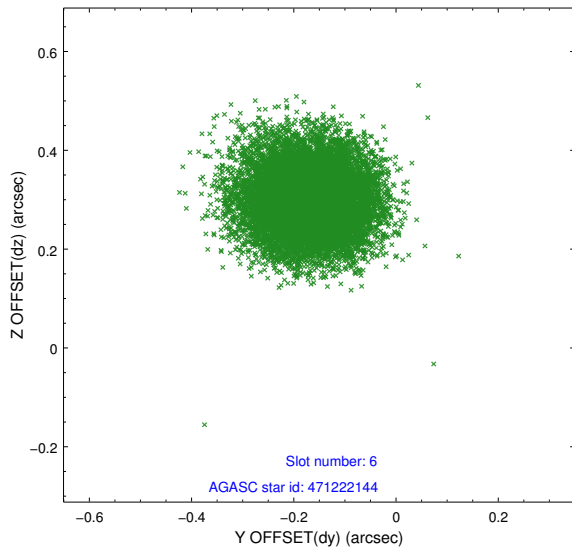
Time (s)



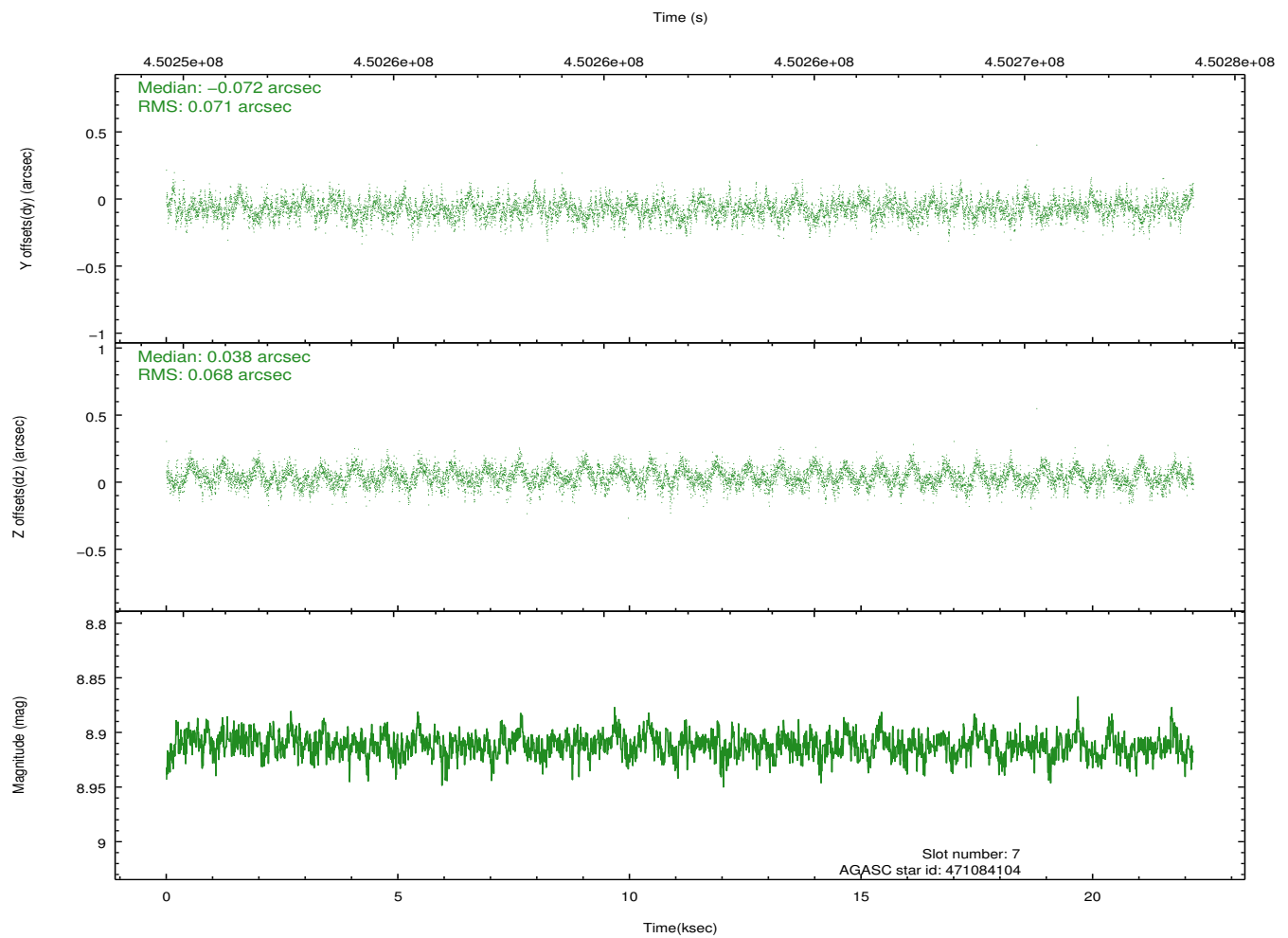
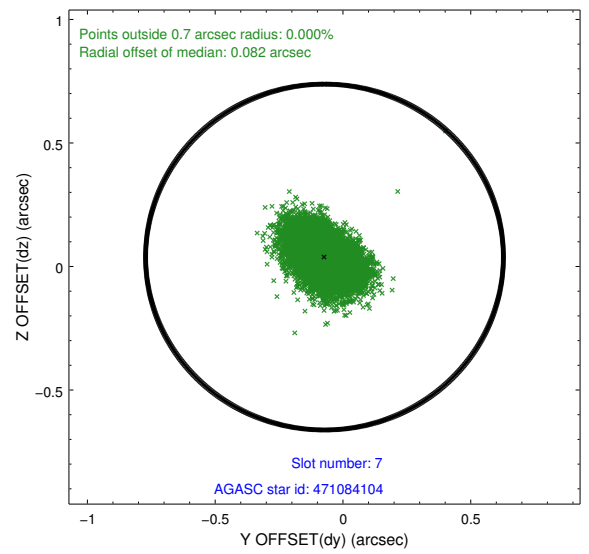
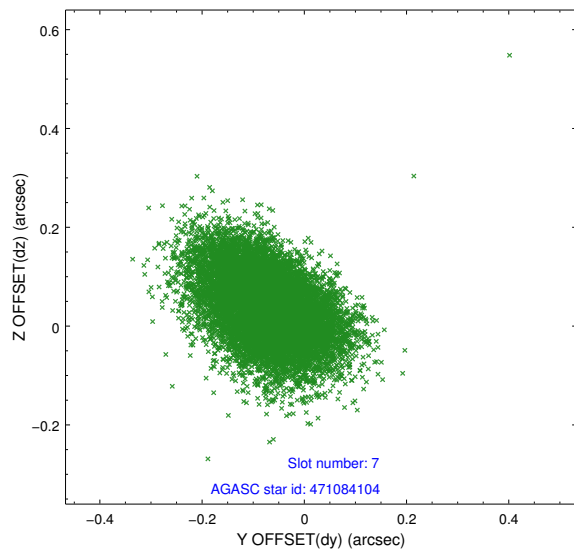
2.4.3 Slot 5



2.4.4 Slot 6

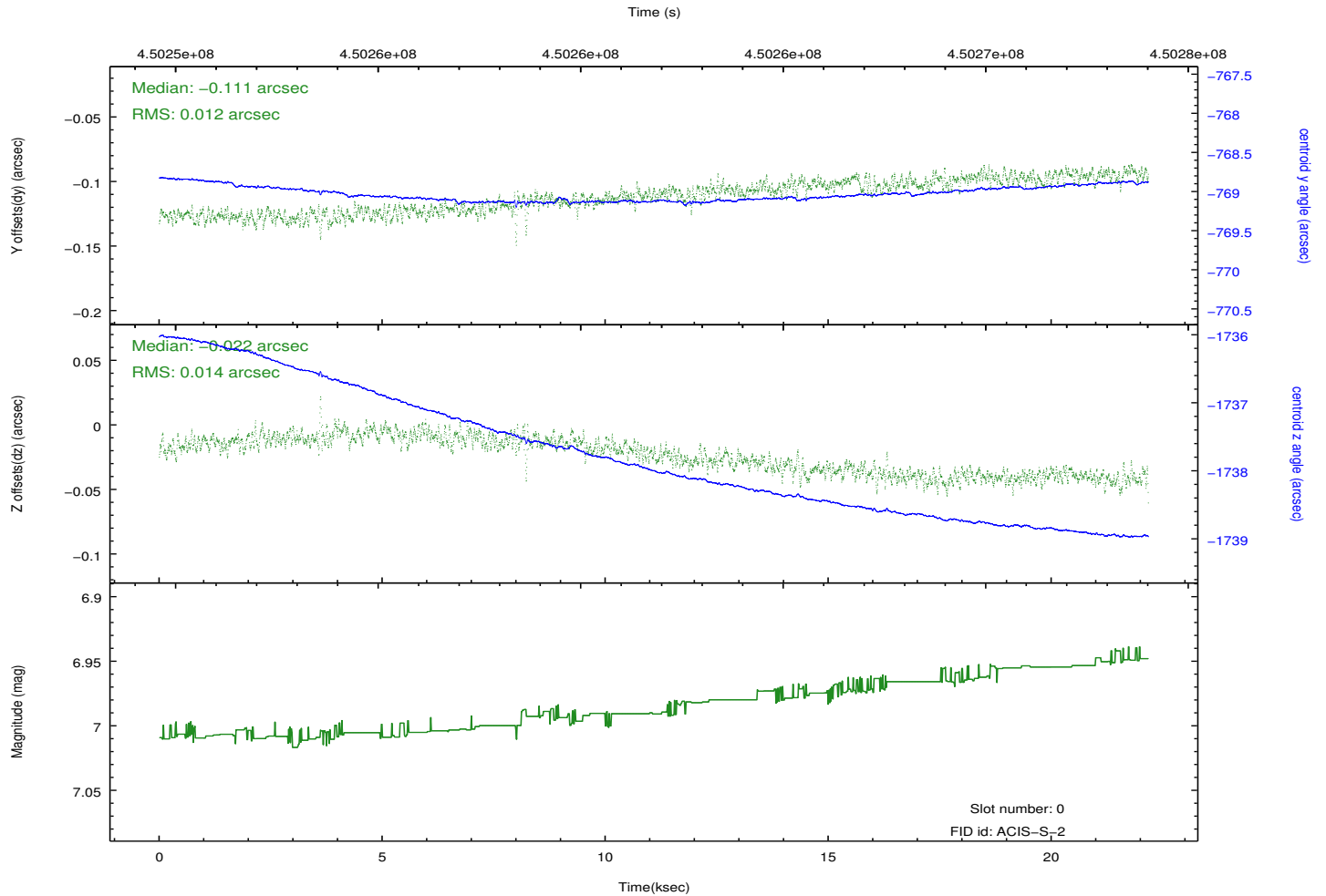
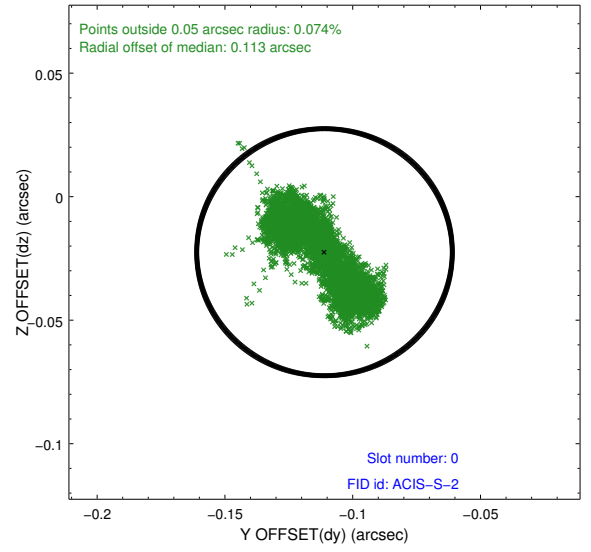
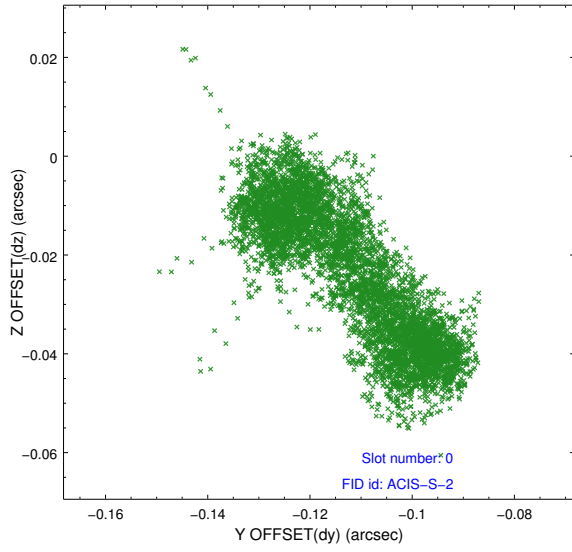


2.4.5 Slot 7

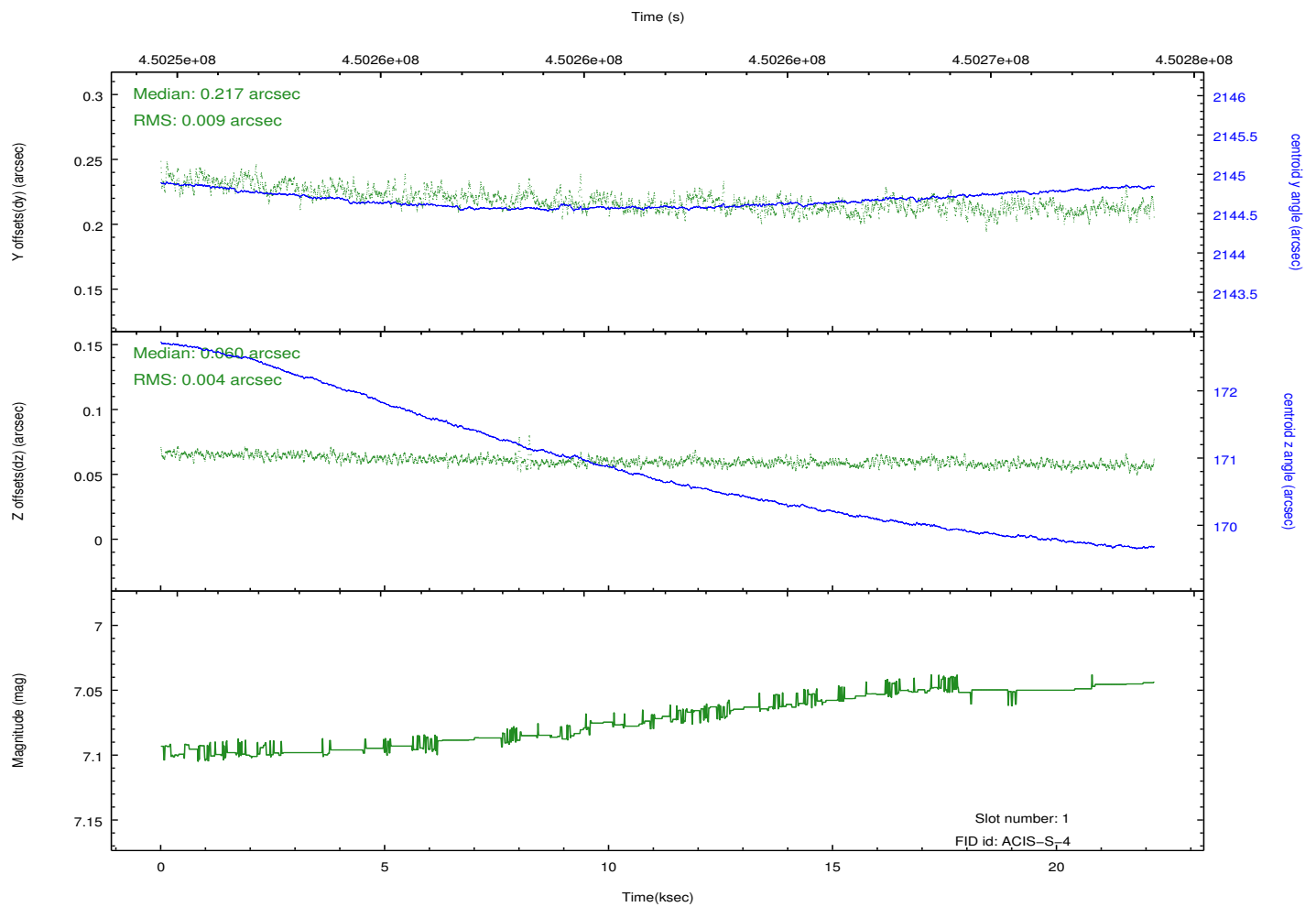
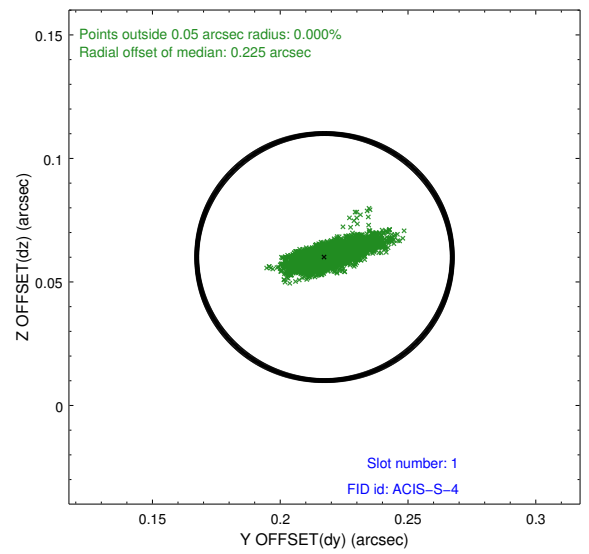
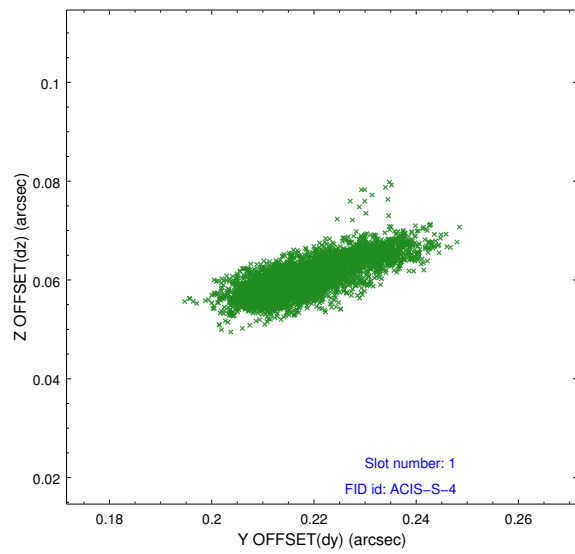


2.5 FID Slots

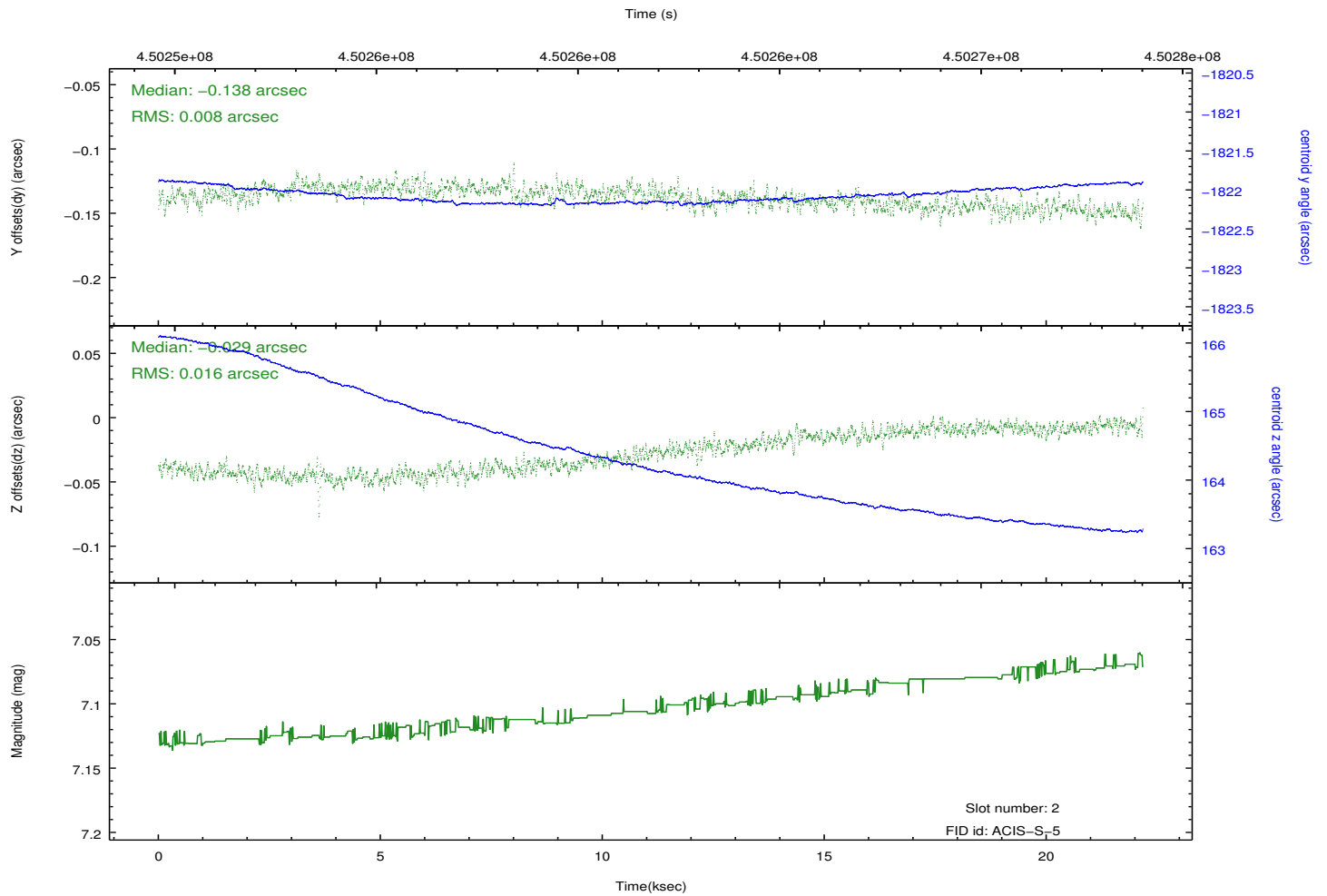
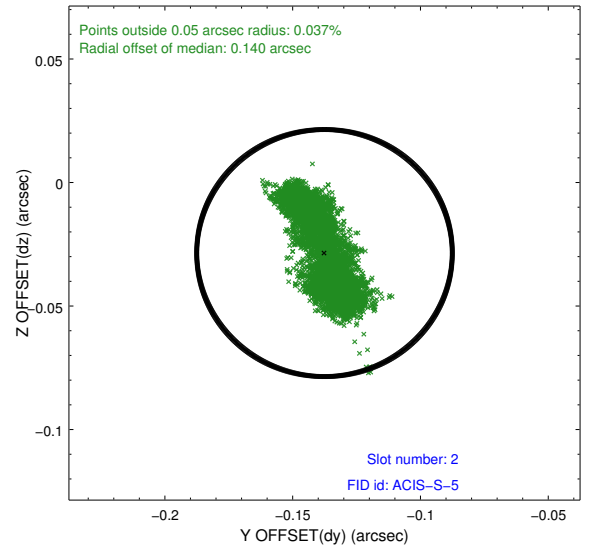
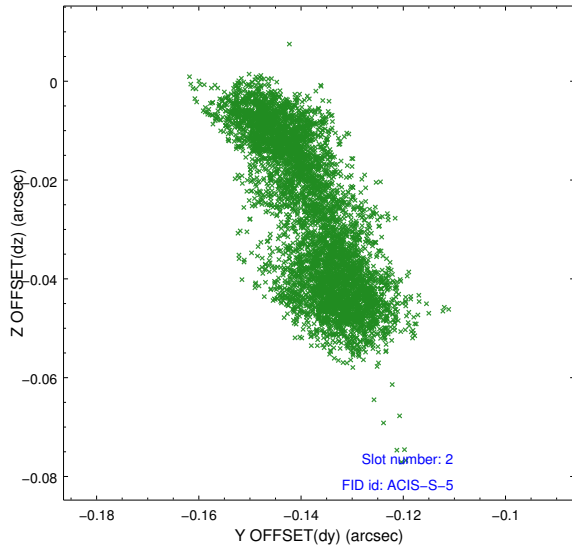
2.5.1 Slot 0



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)	2012.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.051757395983

A.2 Comments

Monitor constraint met, follows obsid 13681 by 69 days.