

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12376 - L2 Version 1
Chandra X-Ray Center

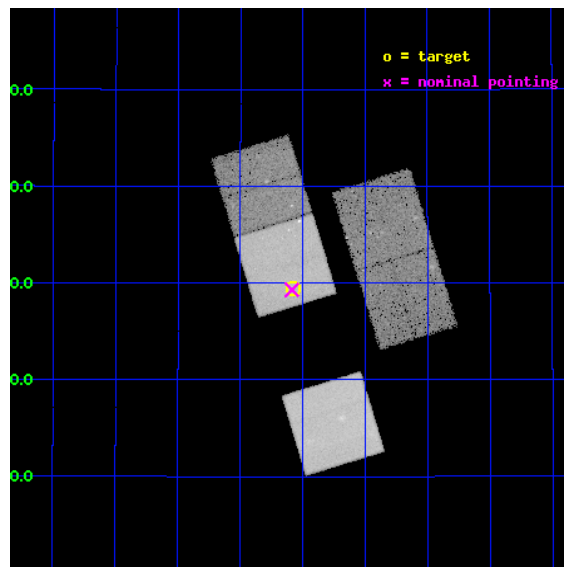
L2 Processing Date : Feb 18 2012

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1 Front

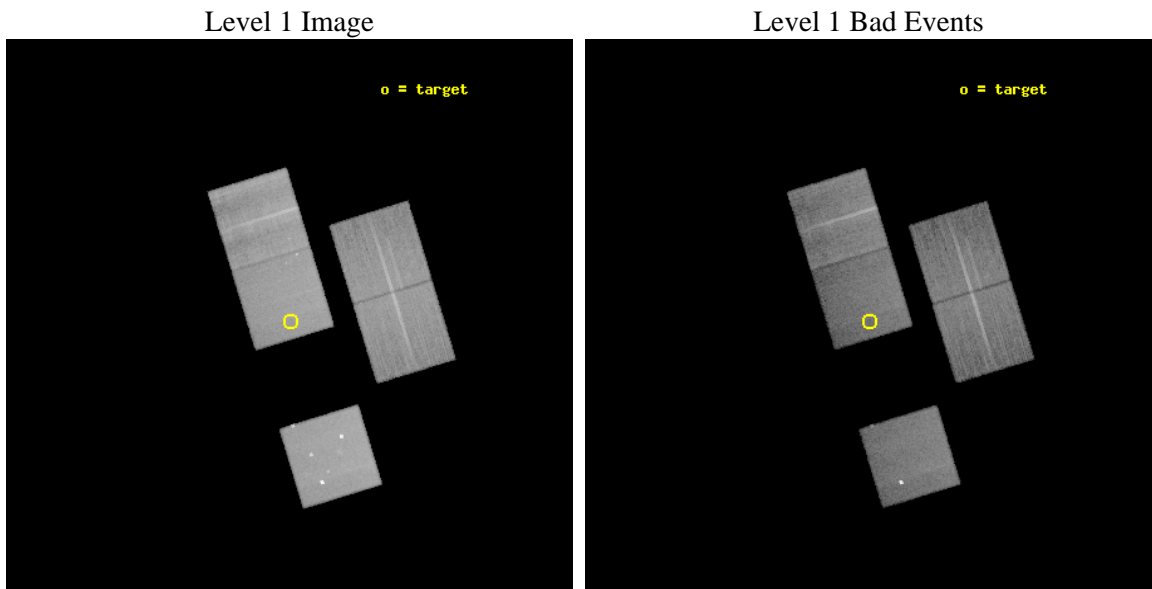
seq_num	200710	Sequence number
obs_id	12376	Observation id
title	X-rays from Planetary Nebulae: Unveiling Binarity, Magnetic Fields, and Wind Collisions	Proposal title
observer	Dr. Joel Kastner	Principal investigator
object	NGC 2371	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	111.394583	Observer's specified target RA [deg]
dec_targ	29.490667	Observer's specified target Dec [deg]
ra_nom	111.39684513234	Nominal RA [deg]
dec_nom	29.488368440195	Nominal Dec [deg]
roll_nom	252.97318913216	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30062.386776805	Sum of GTIs [s]
livetime	29669.599561959	Livetime [s]
ontime2	30059.081576586	Sum of GTIs [s]
ontime3	30056.022636116	Sum of GTIs [s]
ontime5	30062.345736802	Sum of GTIs [s]
ontime7	30062.386776805	Sum of GTIs [s]
ontime8	30059.122646391	Sum of GTIs [s]
l2events	288215	Number of level 2 events



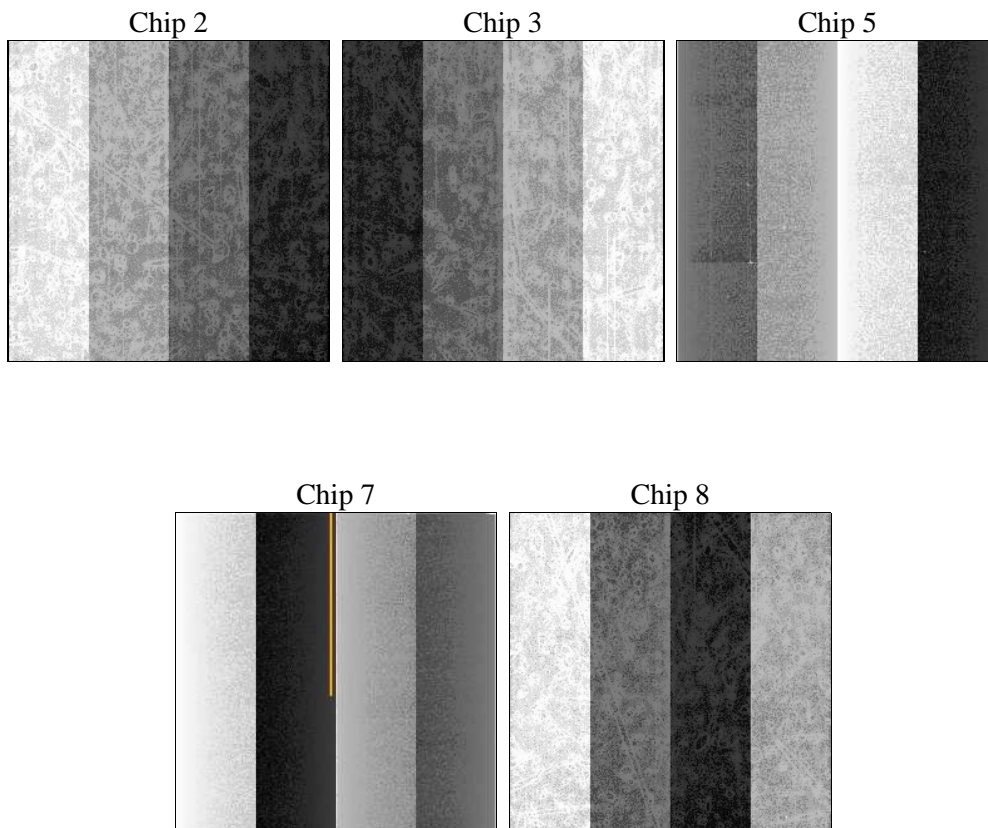
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	30062.386776805	Sum of GTIs [s]
caldbver	4.4.8	 	ontime2	30059.081576586	Sum of GTIs [s]
date	2012-02-18T19:09:15	Date and time of file creation	ontime3	30056.022636116	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	30062.345736802	Sum of GTIs [s]
			ontime7	30062.386776805	Sum of GTIs [s]
			ontime8	30059.122646391	Sum of GTIs [s]
			l1events	1129547	Number of level 1 events

2.1.4 Events

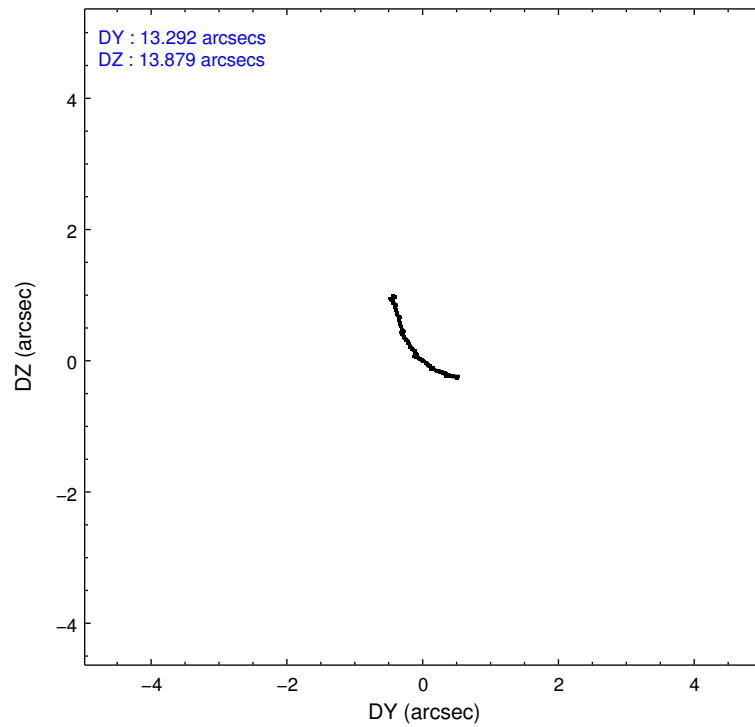
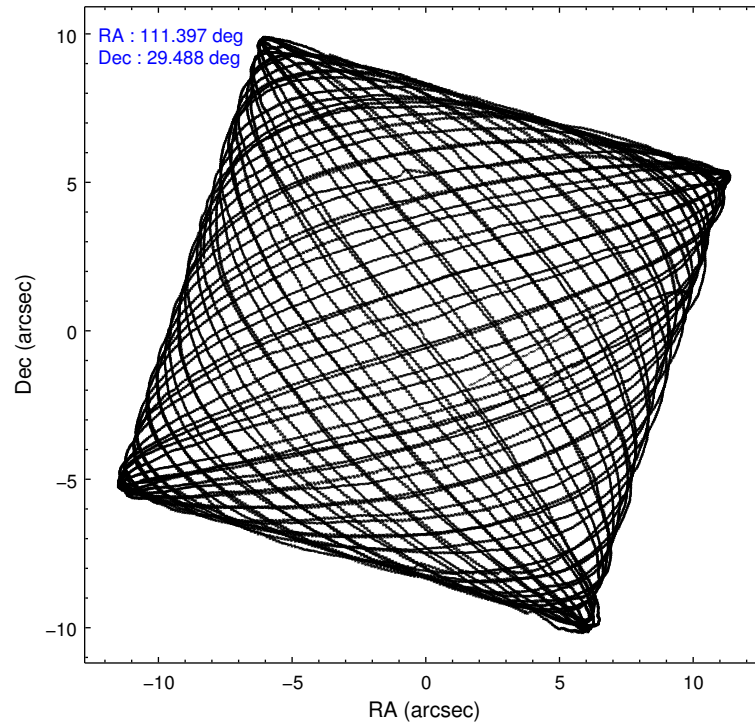
	ccd 2	ccd 3	ccd 5	ccd 7	ccd 8
level 1 events	175960	172987	303685	234916	241999
rejected events	156225	153706	154684	130818	178601
rejected %	88%	88%	50%	55%	73%

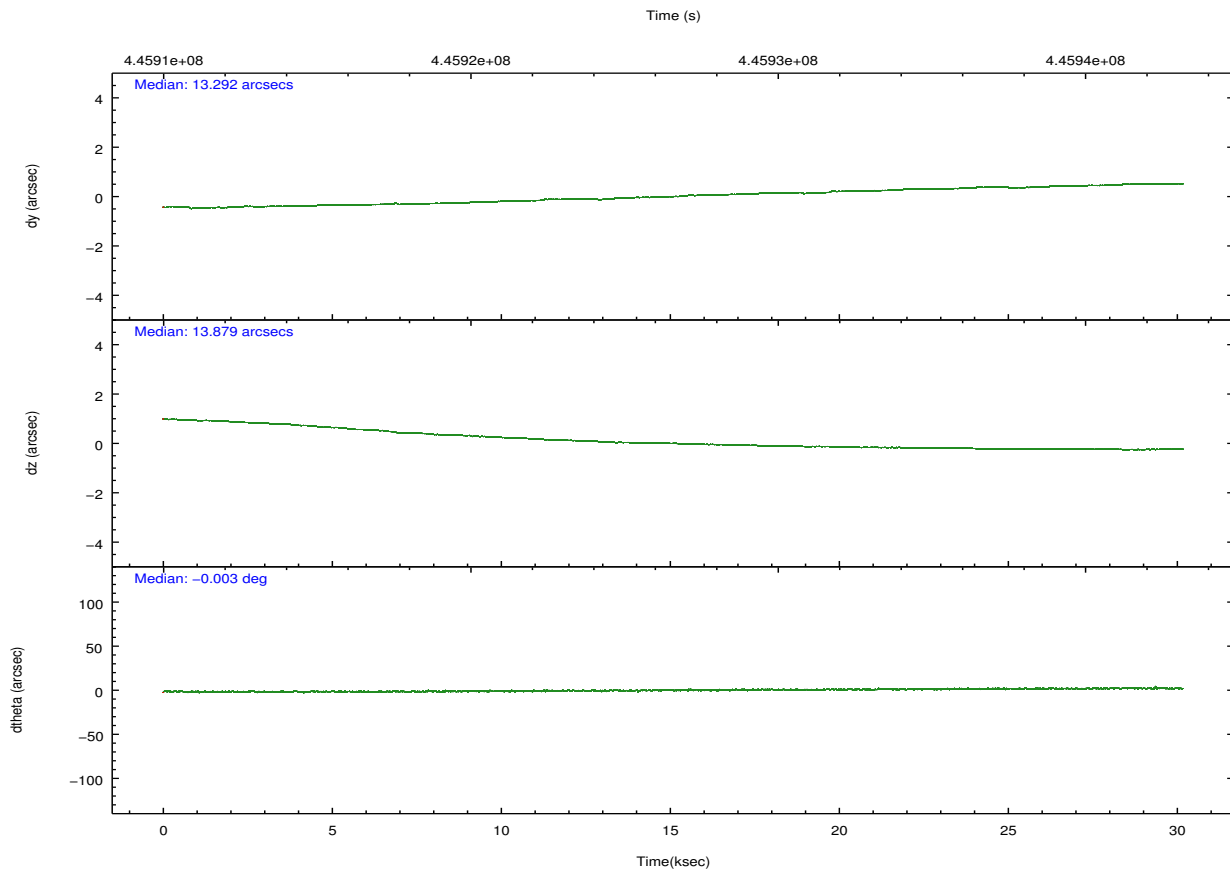
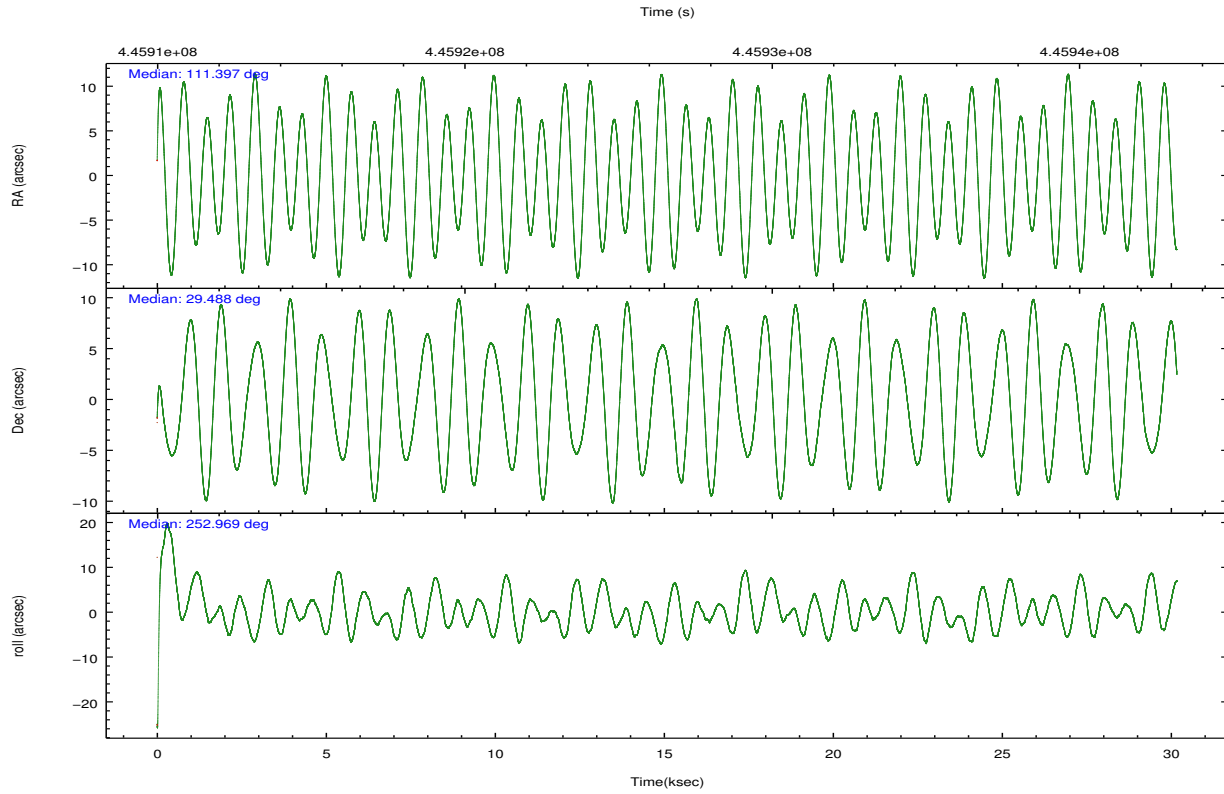
	ccd 2	ccd 3	ccd 5	ccd 7	ccd 8
grade 0 events	7000	6861	20074	9512	18109
	3%	3%	6%	4%	7%
grade 1 events	103	106	687	314	196
	0%	0%	0%	0%	0%
grade 2 events	4852	4379	43833	21466	14800
	2%	2%	14%	9%	6%
grade 3 events	1983	2174	5222	9011	6633
	1%	1%	1%	3%	2%
grade 4 events	2076	2037	4884	8887	6138
	1%	1%	1%	3%	2%
grade 5 events	7565	8915	21574	24303	12912
	4%	5%	7%	10%	5%
grade 6 events	3825	3831	75002	55244	17721
	2%	2%	24%	23%	7%
grade 7 events	148556	144684	132409	106179	165490
	84%	83%	43%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23578	ACIS-23578	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	111.389375	111.3968451323378	CCD I2 on	O4	Y
[deg] Pointing Dec	29.514926	29.48836844019465	CCD I3 on	O5	Y
[deg] Pointing Roll	252.820263	252.9731891321643	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	N
[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	O2	Y
[s] Observation start time (MET)	445911654.184000	445910544.7527	CCD S5 on	N	N
Observation start date	2012-02-18T00:19:48	2012-02-18T00:02:24	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	445941654.184000	445942155.75437	On-chip summing requested	N	N
Observation end date	2012-02-18T08:39:48	2012-02-18T08:49:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



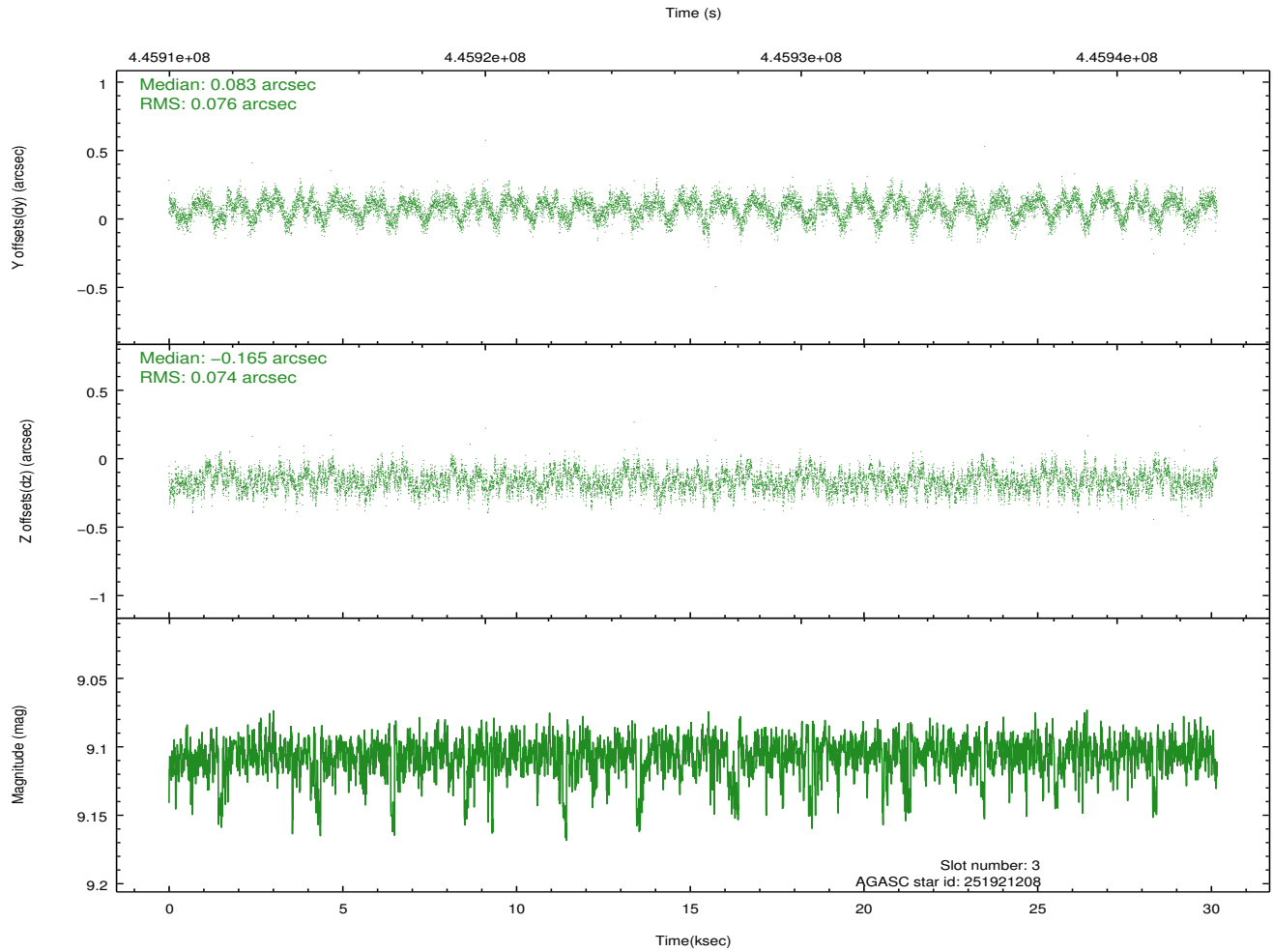
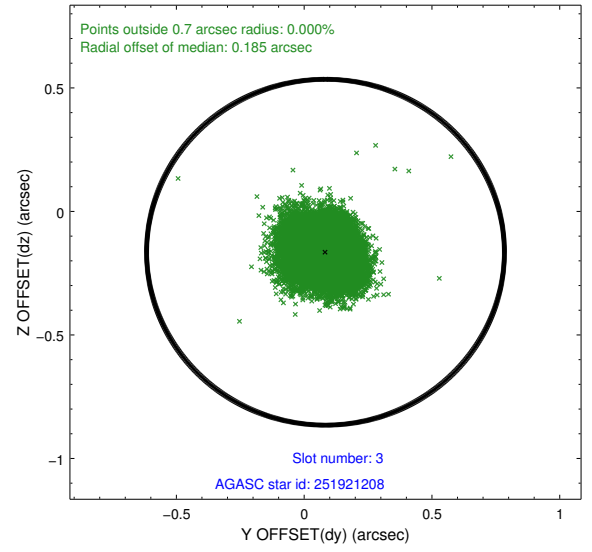
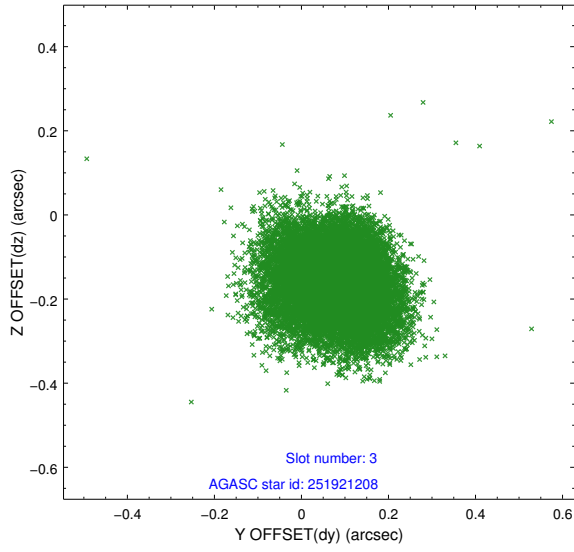


Slot Statistics

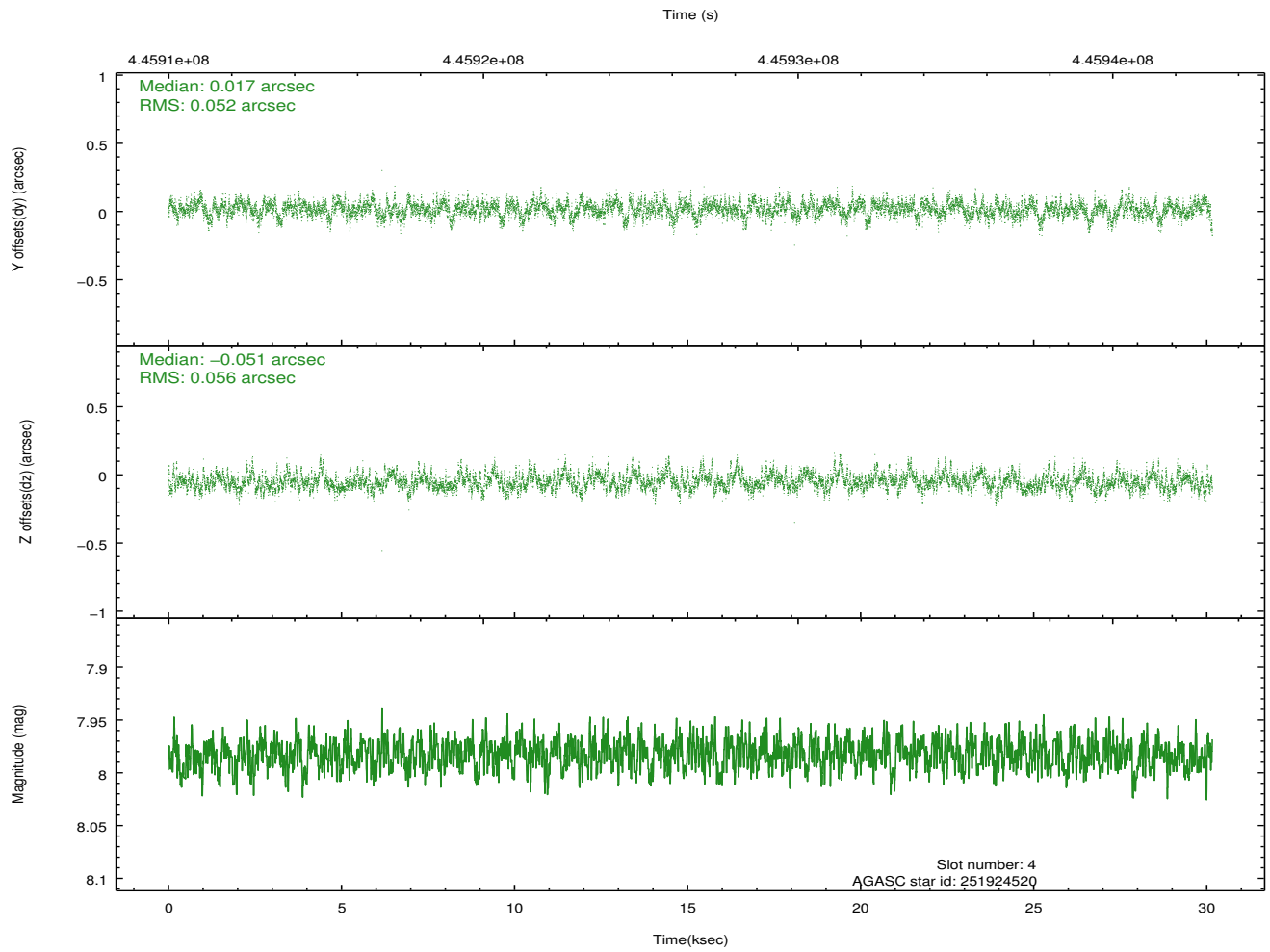
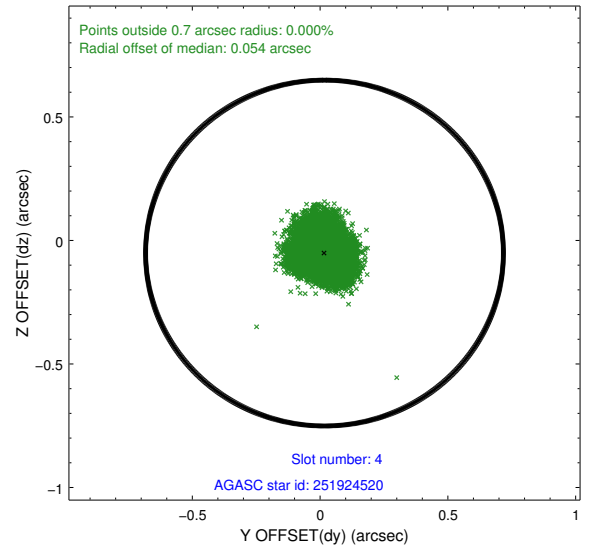
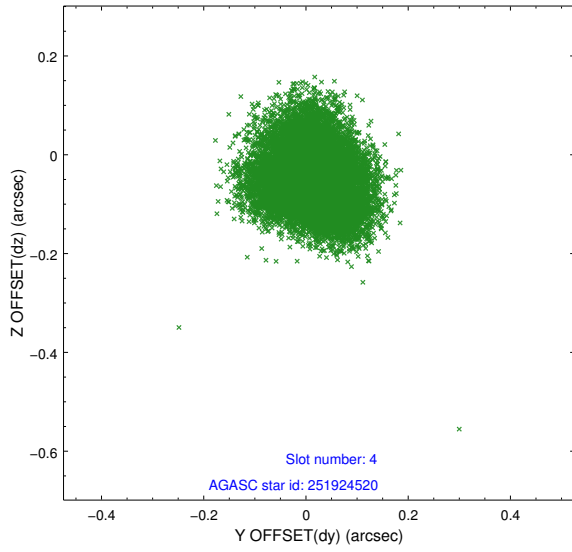
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	7359	-0.100	-0.054	0.009	0.015	0.000000	0.000000	-766.35	-1735.42
1	FID	ACIS-S-4	7.01	7358	0.143	0.046	0.009	0.014	0.000000	0.000000	2147.16	173.05
2	FID	ACIS-S-6	7.14	7359	-0.070	0.016	0.009	0.016	0.000000	0.000000	395.79	810.52
3	GUIDE	251921208	9.11	14710	0.083	-0.165	0.113	0.180	111.582573	29.968922	-1739.60	92.84
4	GUIDE	251924520	7.98	14716	0.017	-0.051	0.082	0.134	112.050646	29.424991	-308.55	2074.95
5	GUIDE	251929368	8.91	14683	0.132	0.164	0.104	0.164	111.850781	29.871188	-1653.23	997.04
6	GUIDE	251930528	9.06	14633	-0.193	0.001	0.124	0.192	111.886485	29.313442	228.94	1704.49
7	GUIDE	321401360	9.46	14626	-0.038	0.045	0.142	0.219	111.011507	30.262588	-2225.84	-1917.91

2.4 Star Slots

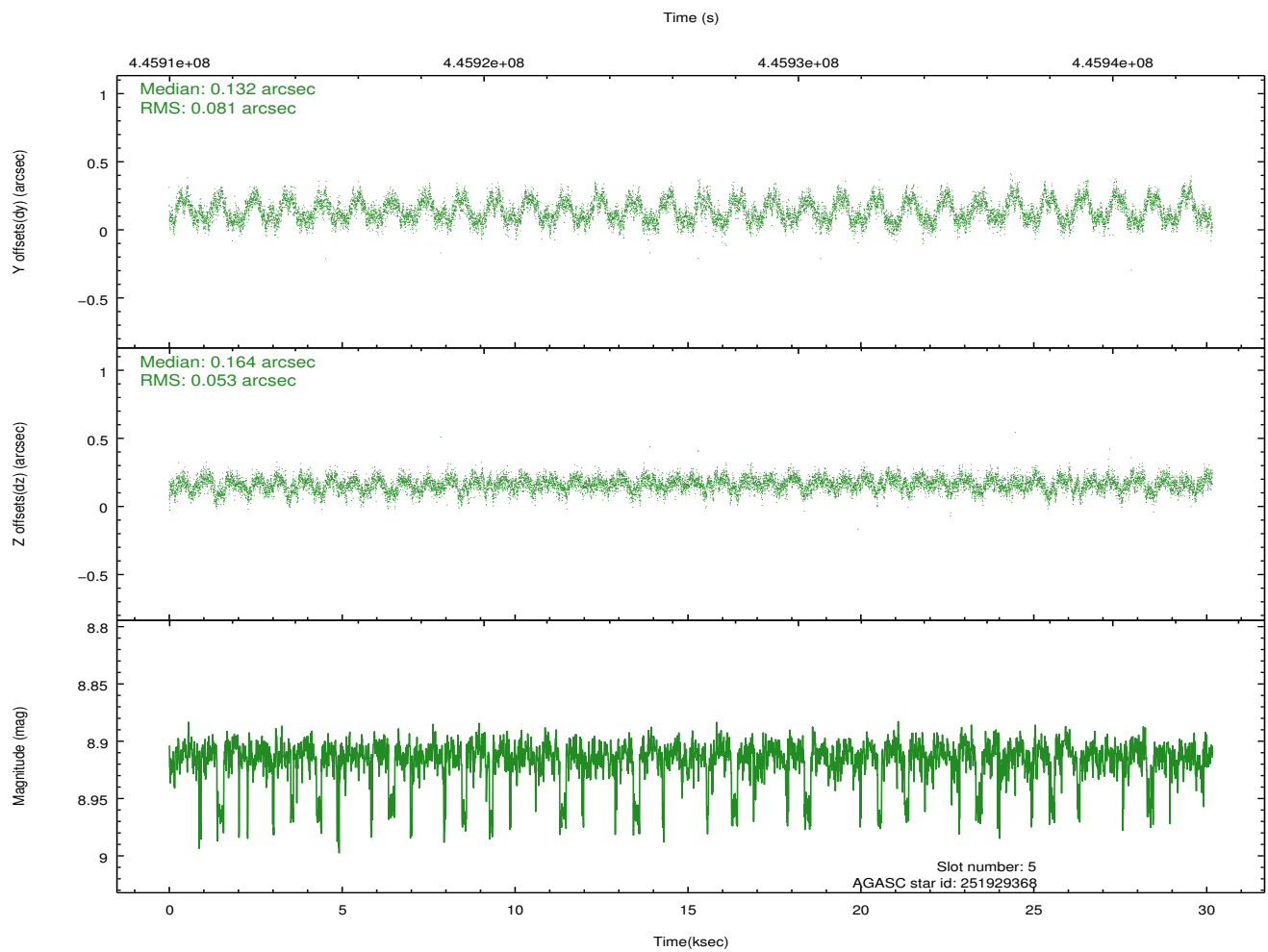
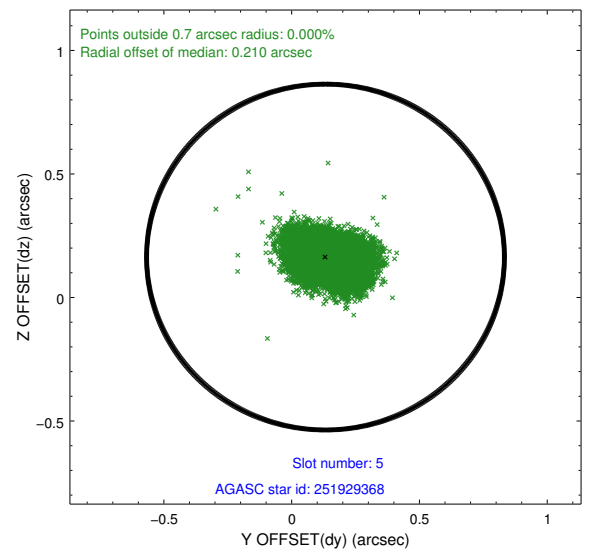
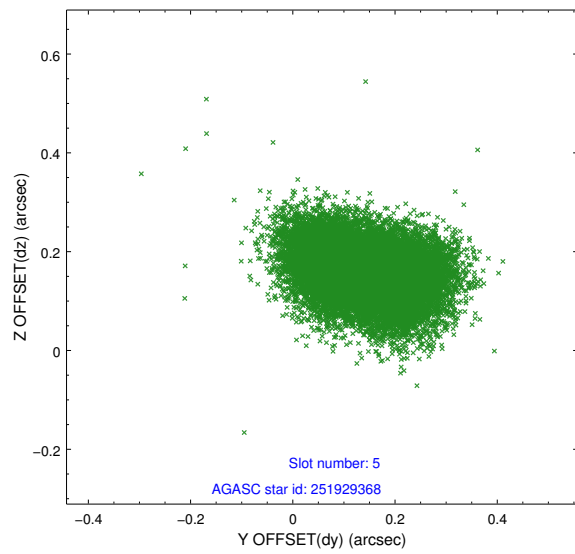
2.4.1 Slot 3



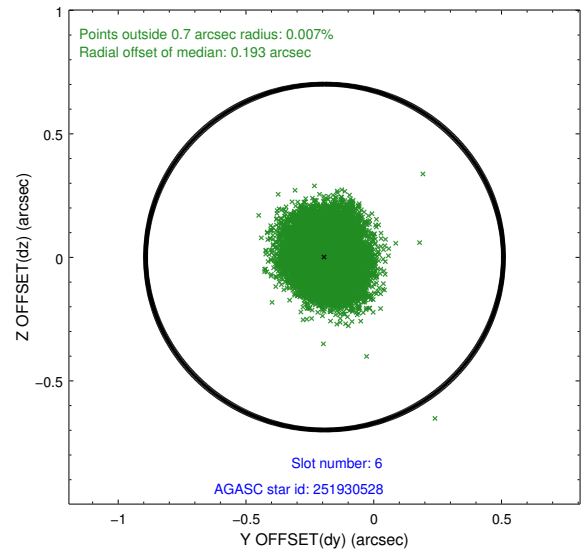
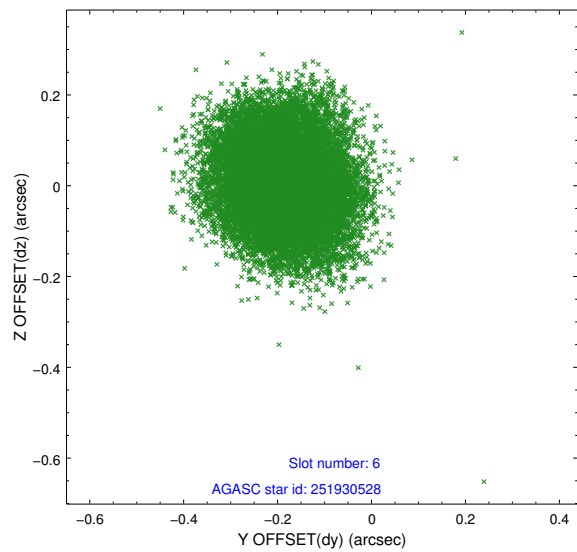
2.4.2 Slot 4



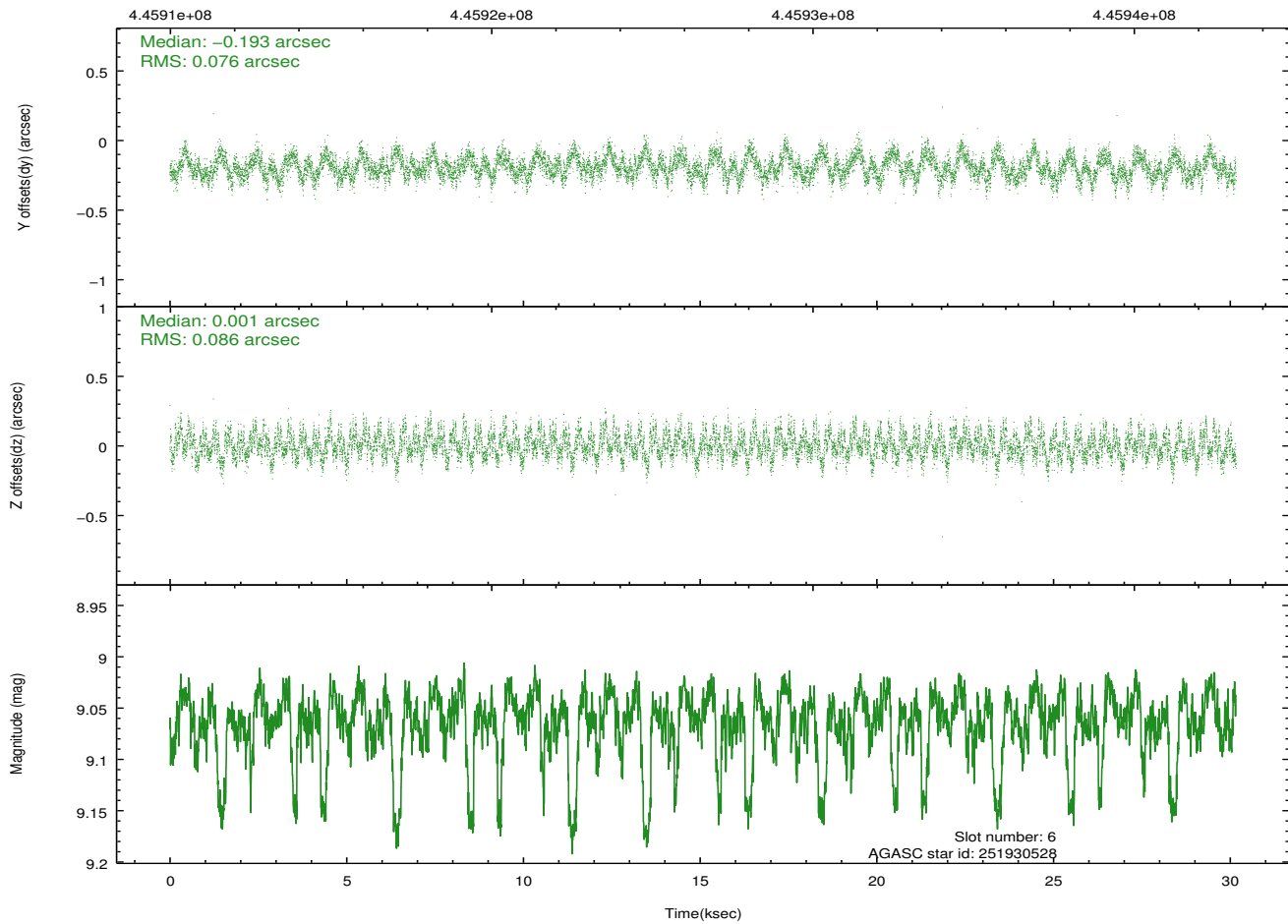
2.4.3 Slot 5



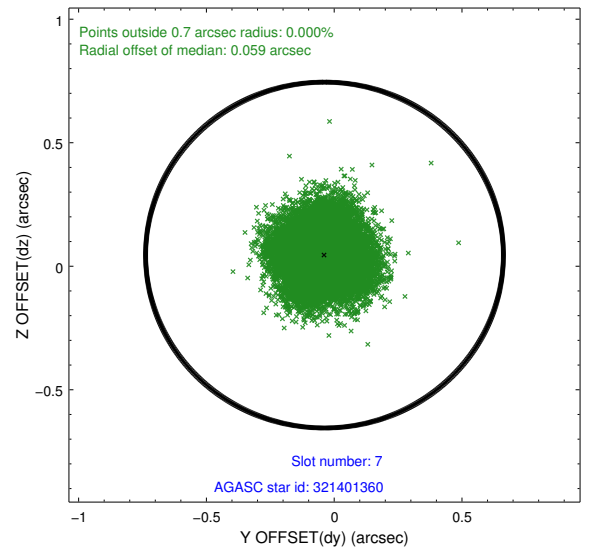
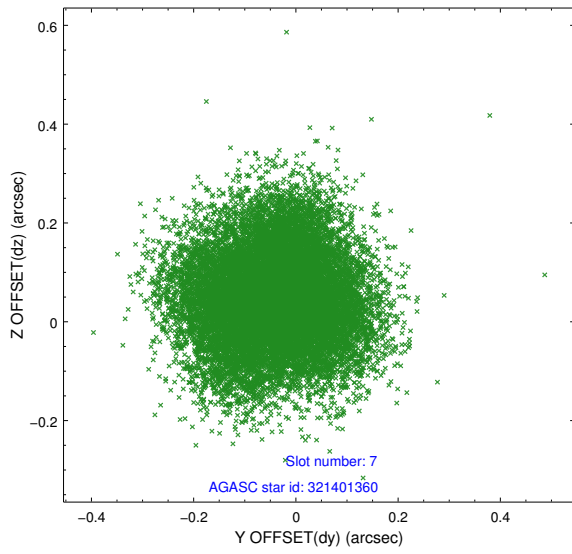
2.4.4 Slot 6



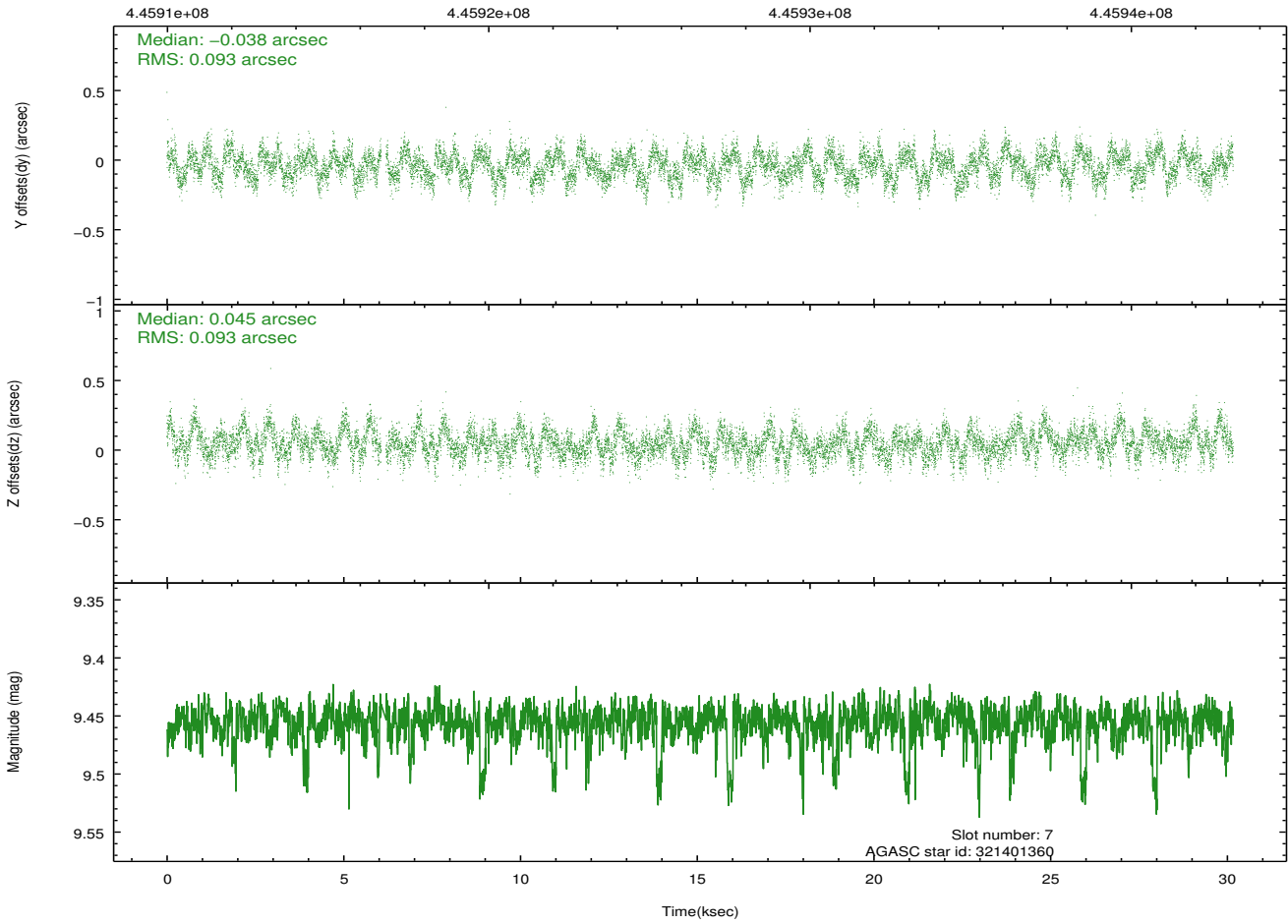
Time (s)



2.4.5 Slot 7

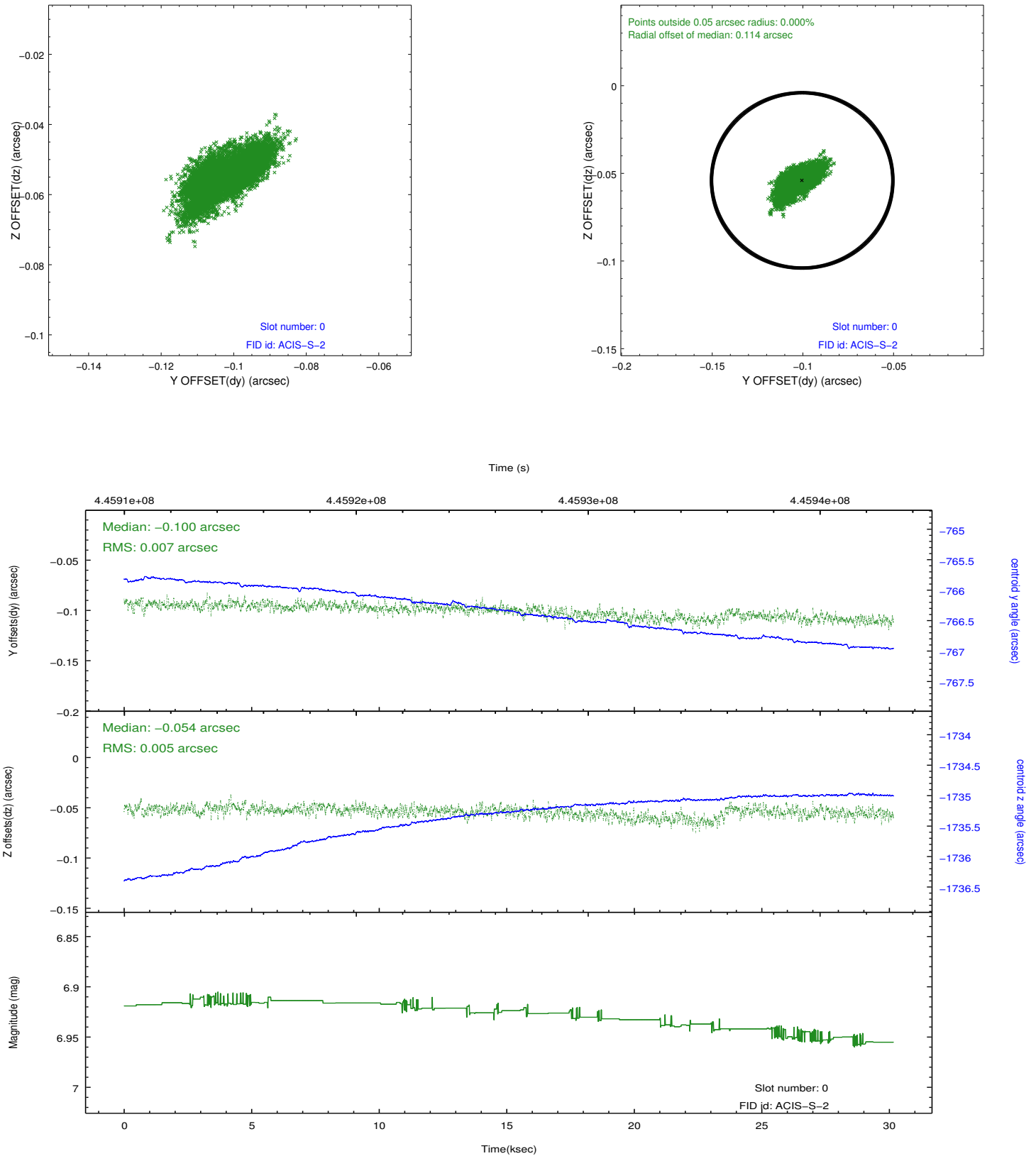


Time (s)

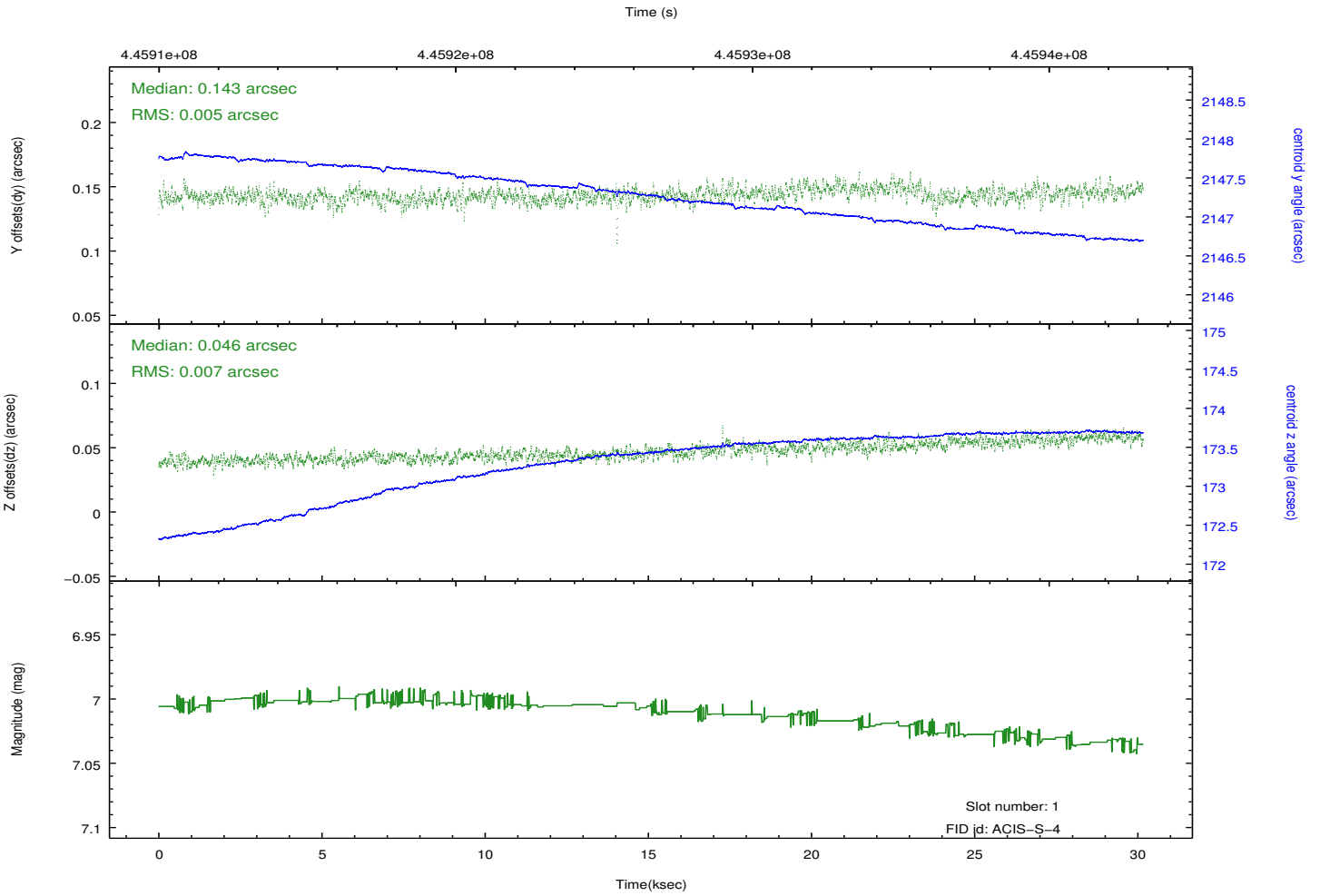
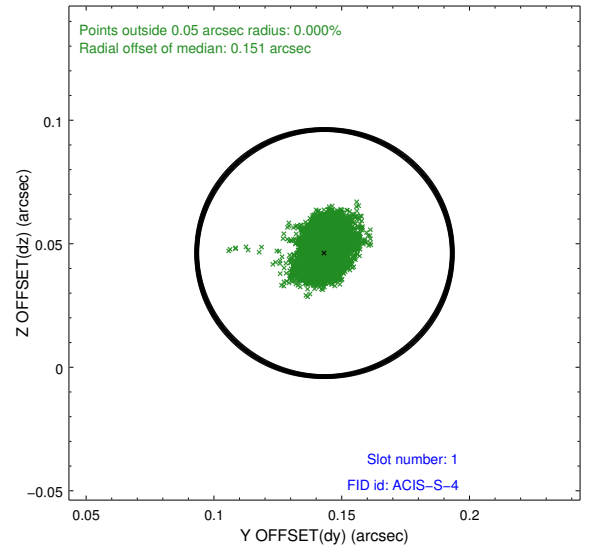
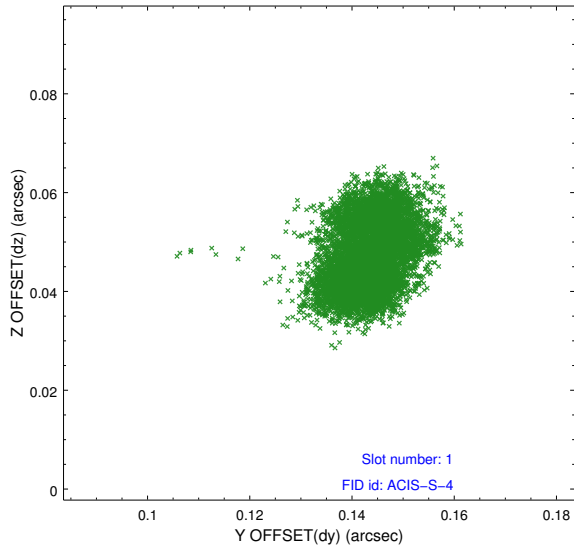


2.5 FID Slots

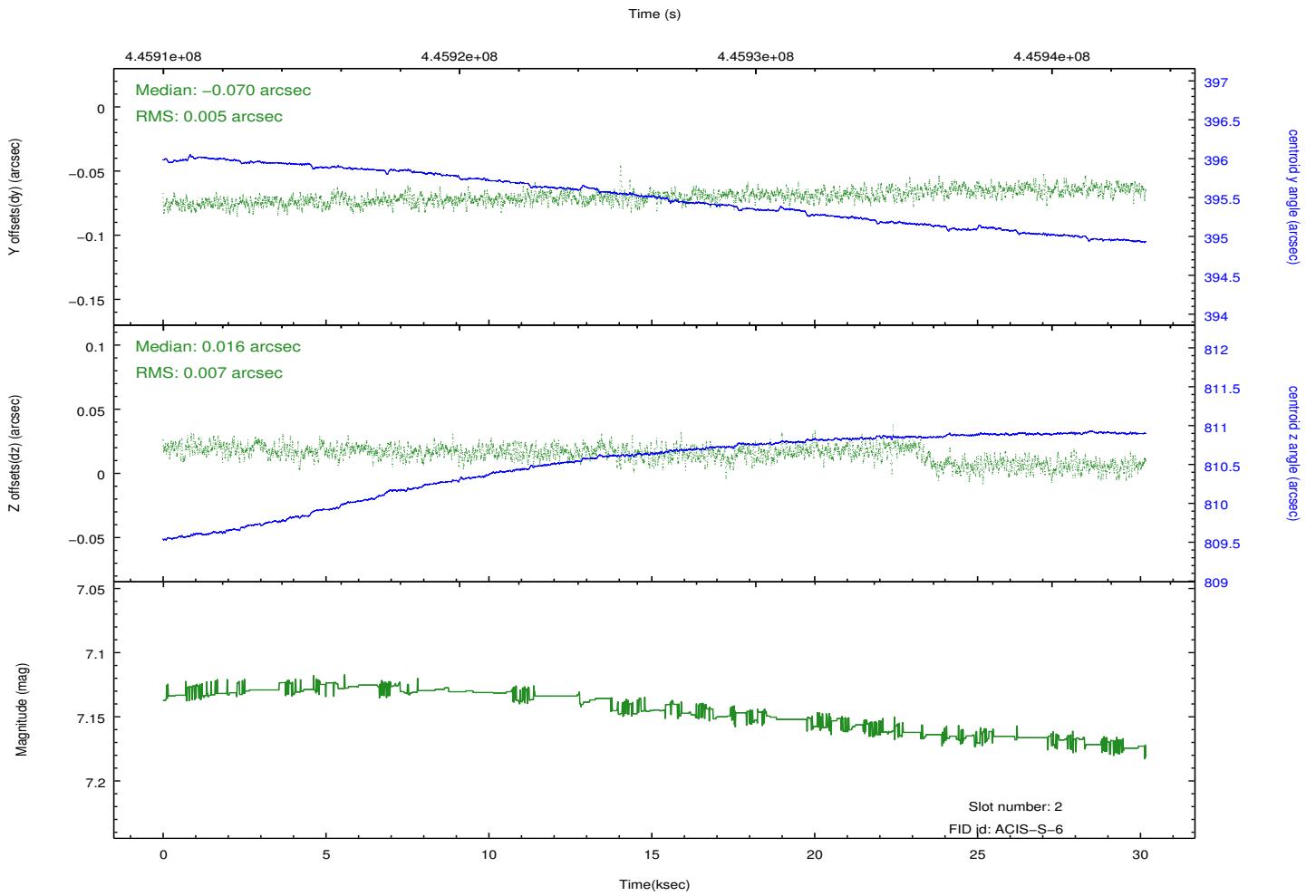
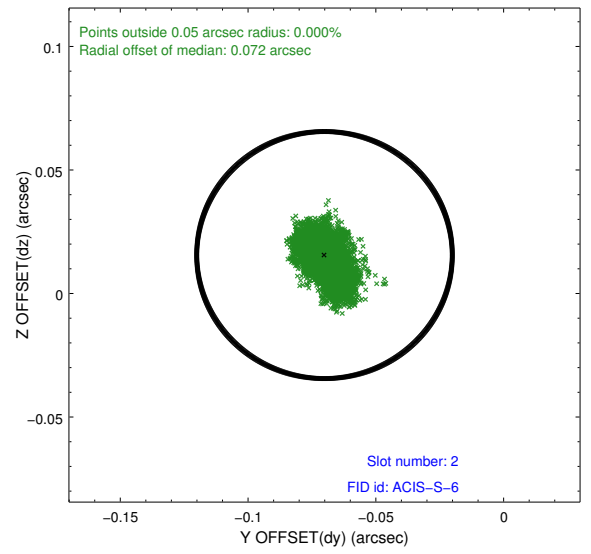
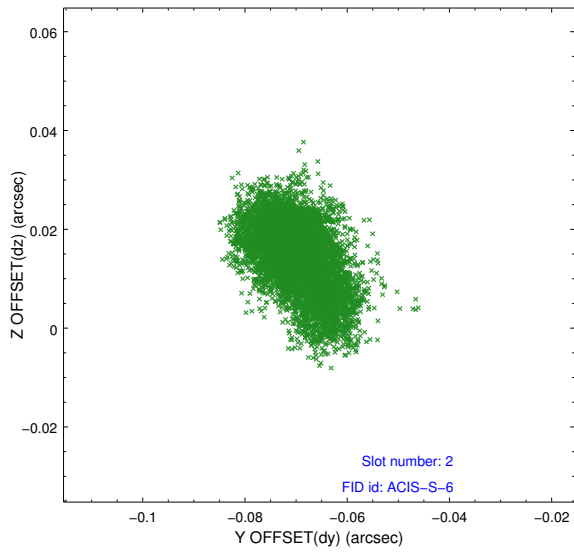
2.5.1 Slot 0



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)	2012.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.062386776805

A.2 Comments

Optional chip S2 not used.