

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2070 - L2 Version 3
Chandra X-Ray Center

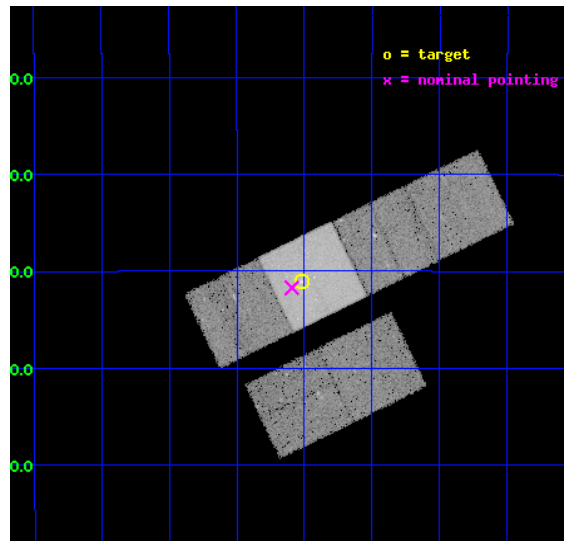
L2 Processing Date : Sep 15 2012

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1 Front

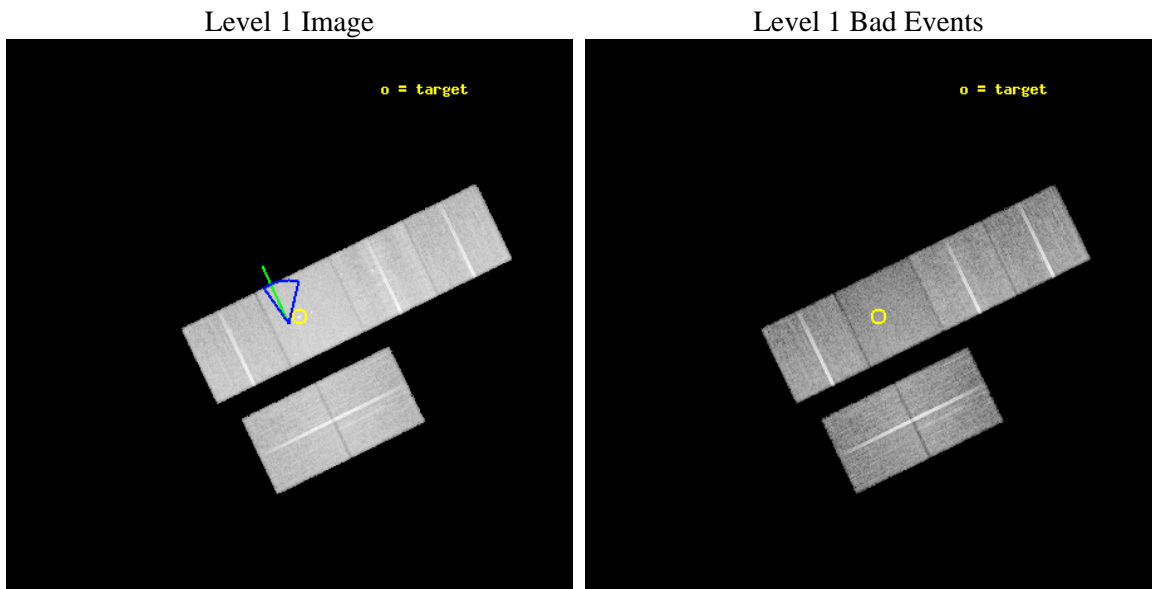
seq_num	600204	Sequence number
obs_id	2070	Observation id
title	YOUNG ELLIPTICAL GALAXIES AND THE EVOLUTION OF THE HOT INTERSTELLAR MEDIUM	Proposal title
observer	Prof. Thomas Statler	Principal investigator
object	NGC 5018	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.254167	Observer's specified target RA [deg]
dec_targ	-19.518056	Observer's specified target Dec [deg]
ra_nom	198.27318719679	Nominal RA [deg]
dec_nom	-19.528762729368	Nominal Dec [deg]
roll_nom	334.06133704143	Nominal Roll [deg]
revision	3	Processing version of data
ontime	31286.400029123	Sum of GTIs [s]
livetime	30890.232793546	Livetime [s]
ontime2	31283.159068868	Sum of GTIs [s]
ontime3	31286.400029123	Sum of GTIs [s]
ontime6	31286.400029123	Sum of GTIs [s]
ontime7	31286.400029123	Sum of GTIs [s]
ontime8	31286.400029123	Sum of GTIs [s]
ontime9	31286.400029123	Sum of GTIs [s]
l2events	188741	Number of level 2 events



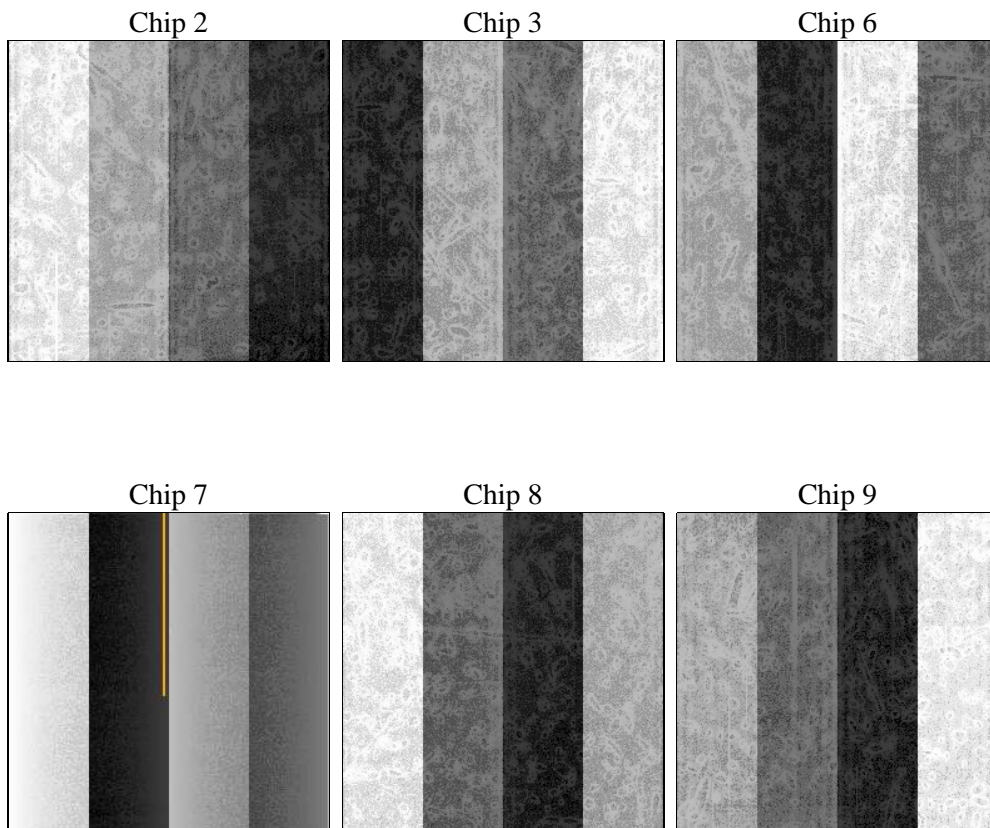
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	31330.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	31286.400029123	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime2	31283.159068868	Sum of GTIs [s]
date	2012-09-15T14:53:57	Date and time of file creation	ontime3	31286.400029123	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	31286.400029123	Sum of GTIs [s]
			ontime7	31286.400029123	Sum of GTIs [s]
			ontime8	31286.400029123	Sum of GTIs [s]
			ontime9	31286.400029123	Sum of GTIs [s]
			l1events	1108936	Number of level 1 events

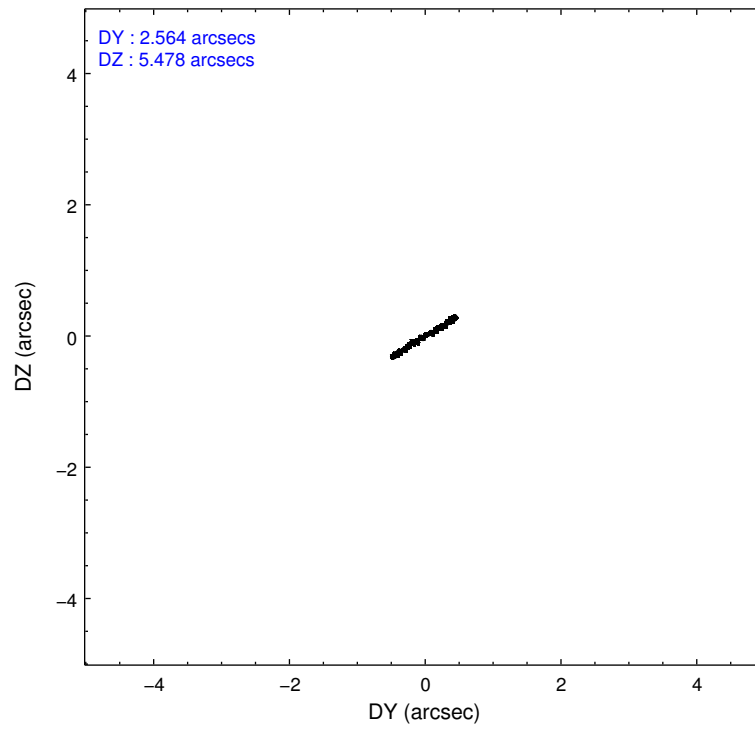
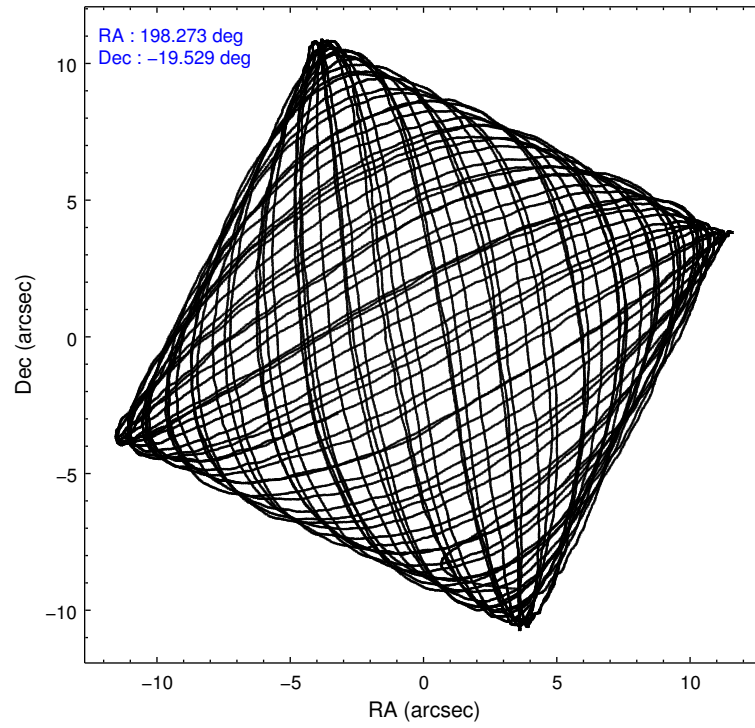
2.1.4 Events

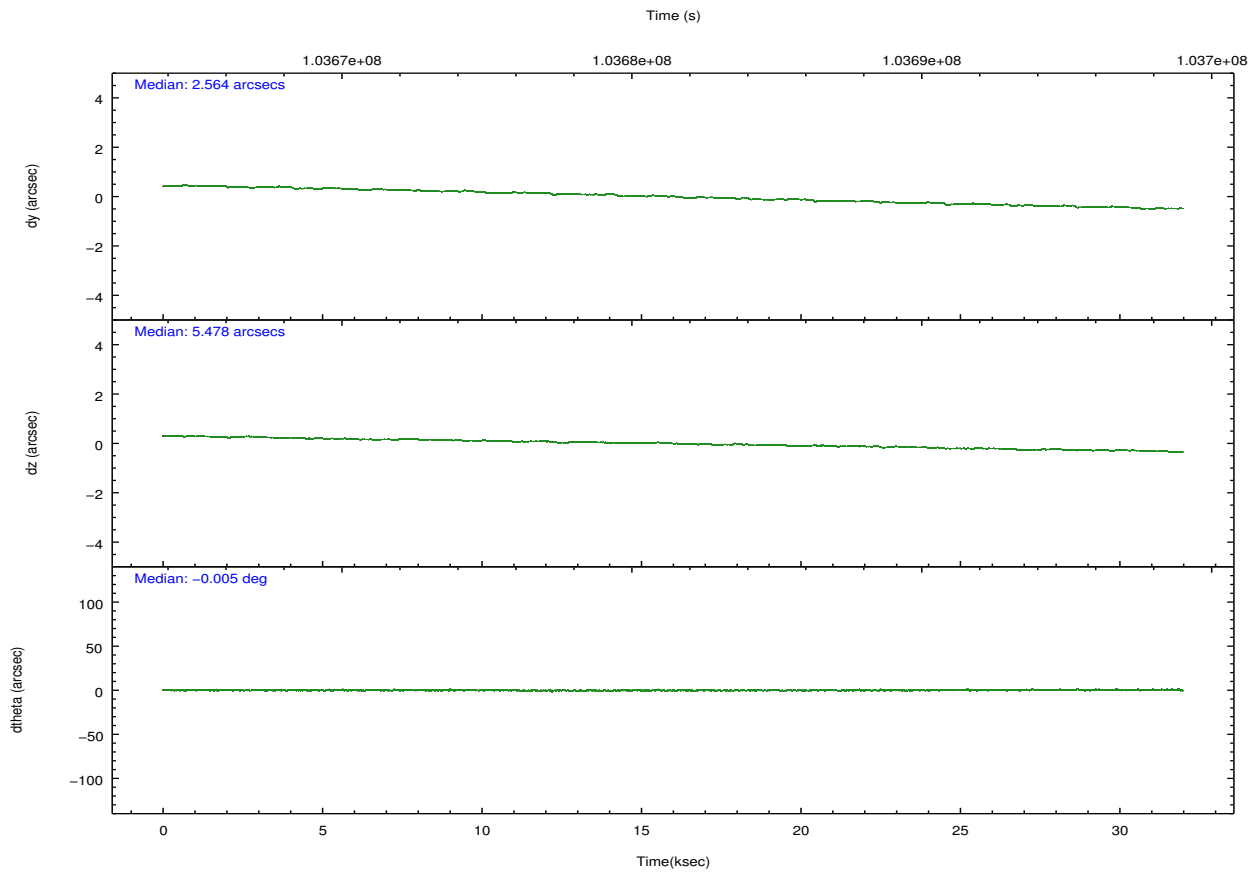
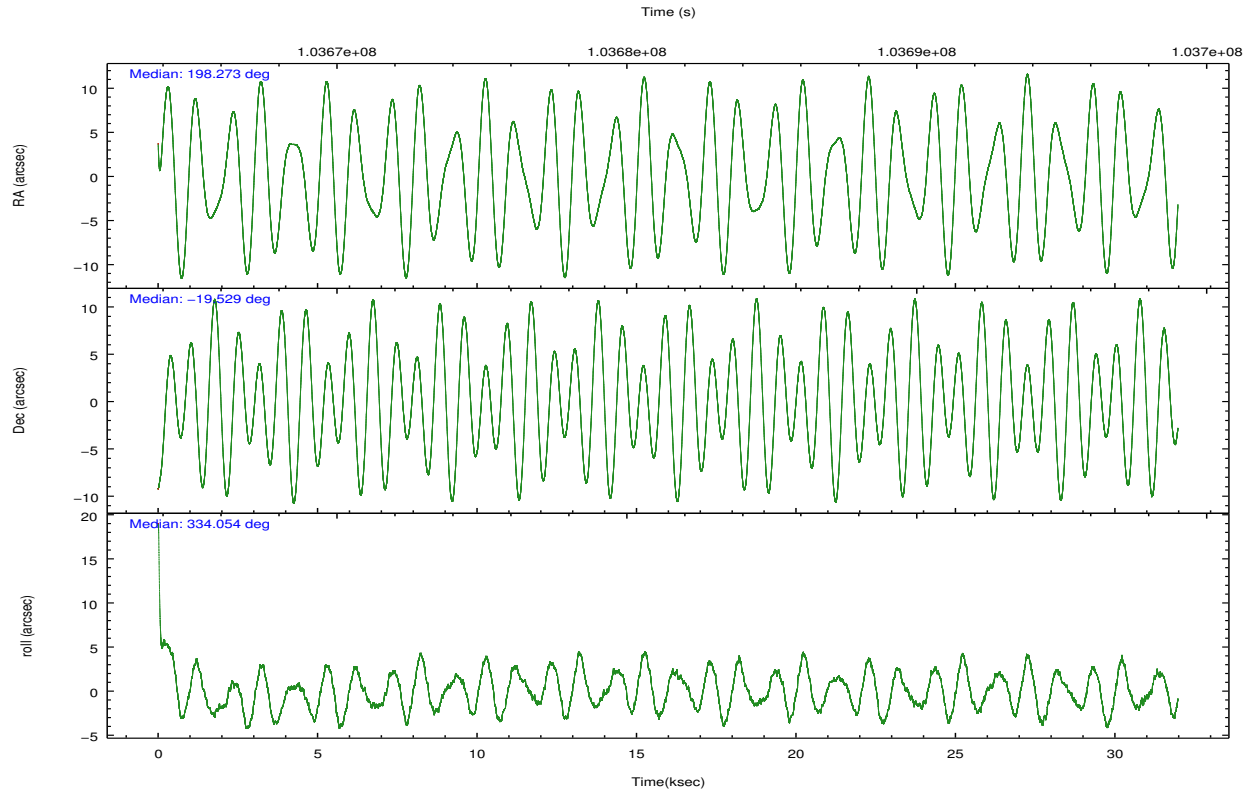
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	158667	163445	173709	217888	223356	171871	grade 0 events	9178	8777	9350	10023	17349	9474
rejected events	138234	143282	151769	122750	170094	149482		5%	5%	5%	4%	7%	5%
rejected %	87%	87%	87%	56%	76%	86%	grade 1 events	68	64	74	197	138	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	4249	4210	4466	18859	10411	4659
								2%	2%	2%	8%	4%	2%
							grade 3 events	1776	1778	1983	8668	6432	1994
								1%	1%	1%	3%	2%	1%
							grade 4 events	1810	1938	1953	8642	5904	1911
								1%	1%	1%	3%	2%	1%
							grade 5 events	5367	6212	6991	20045	8954	7284
								3%	3%	4%	9%	4%	4%
							grade 6 events	3428	3467	4196	48961	13172	4353
								2%	2%	2%	22%	5%	2%
							grade 7 events	132791	136999	144696	102493	160996	142106
								83%	83%	83%	47%	72%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-236789	ACIS-236789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	198.244319	198.2731871967877	Subarray requested	NONE	NONE
[deg] Pointing Dec	-19.530954	-19.52876272936848	Alternating exposures requested	N	N
[deg] Pointing Roll	333.895049	334.0613370414253	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	348.000000	348.000000			
[deg] Roll tolerance	25.000000	25.000000			
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	103666079.184000	103664893.05978			
Observation start date	2001-04-14T20:06:55	2001-04-14T19:48:13			
[s] Observation end time (MET)	103697409.184000	103697961.09856			
Observation end date	2001-04-15T04:49:05	2001-04-15T04:59:21			
Read mode	TIMED	TIMED			

2.3 Aspect



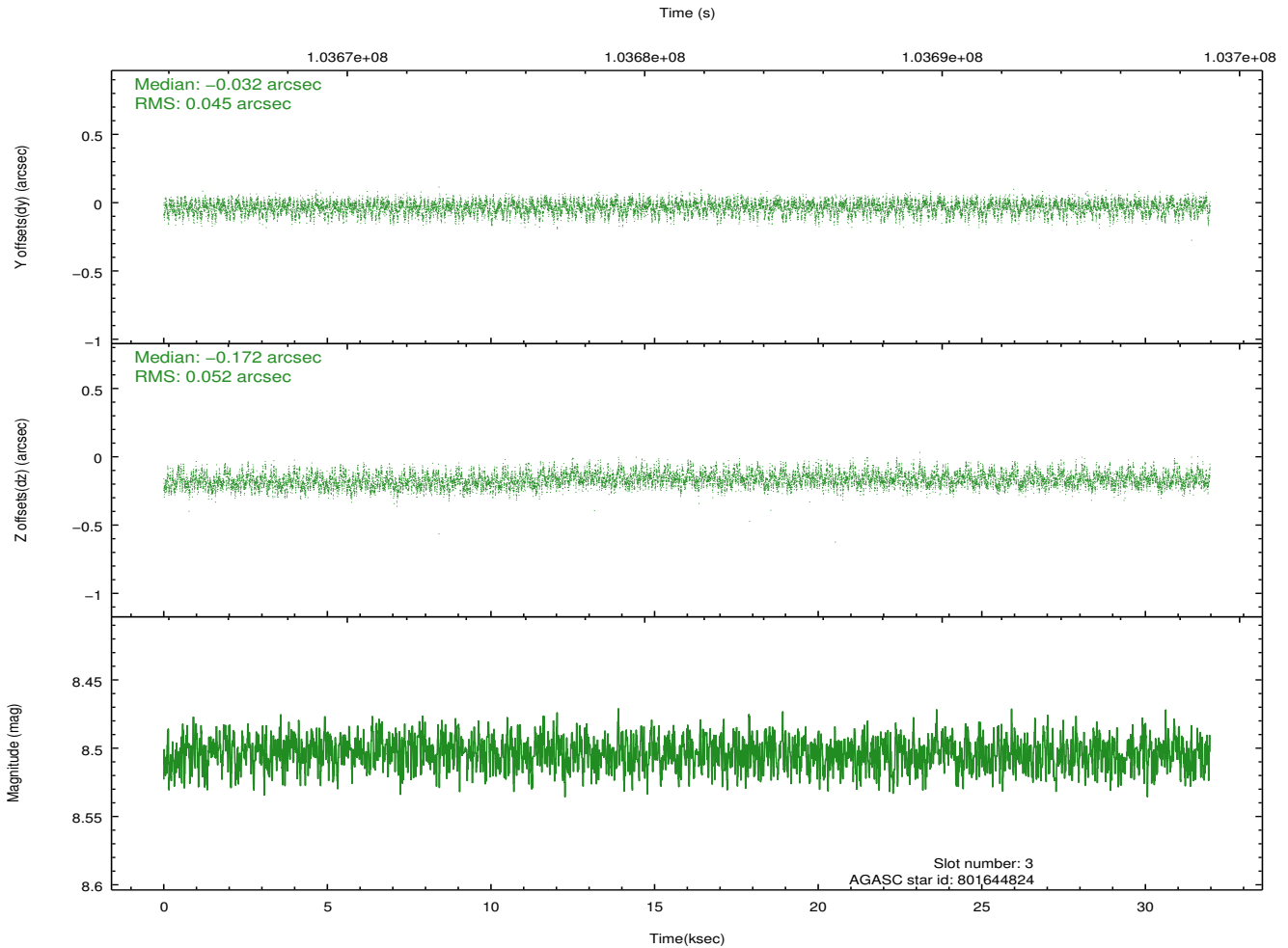
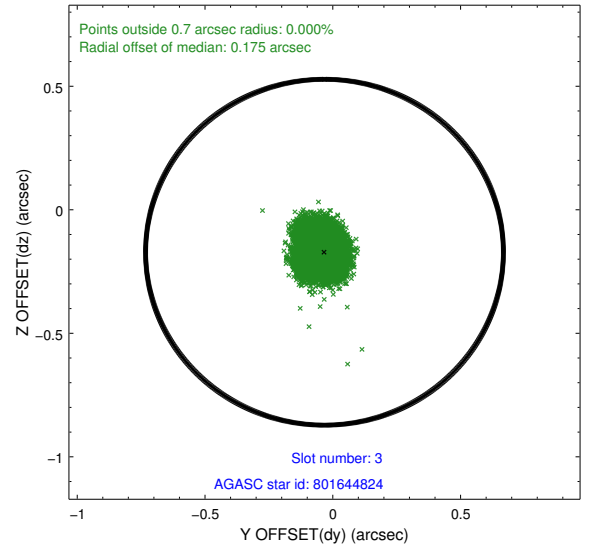
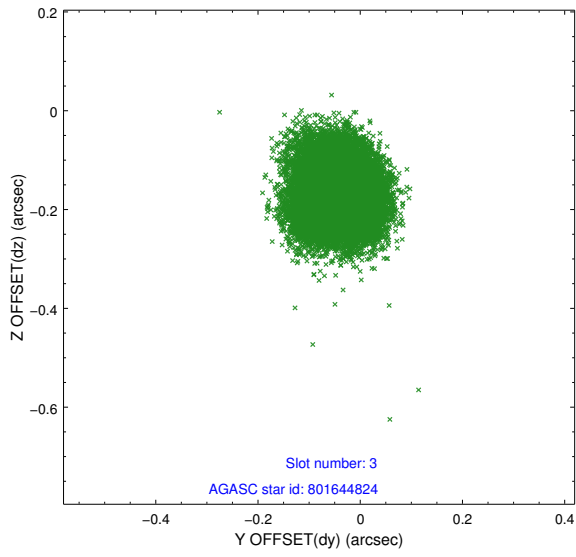


Slot Statistics

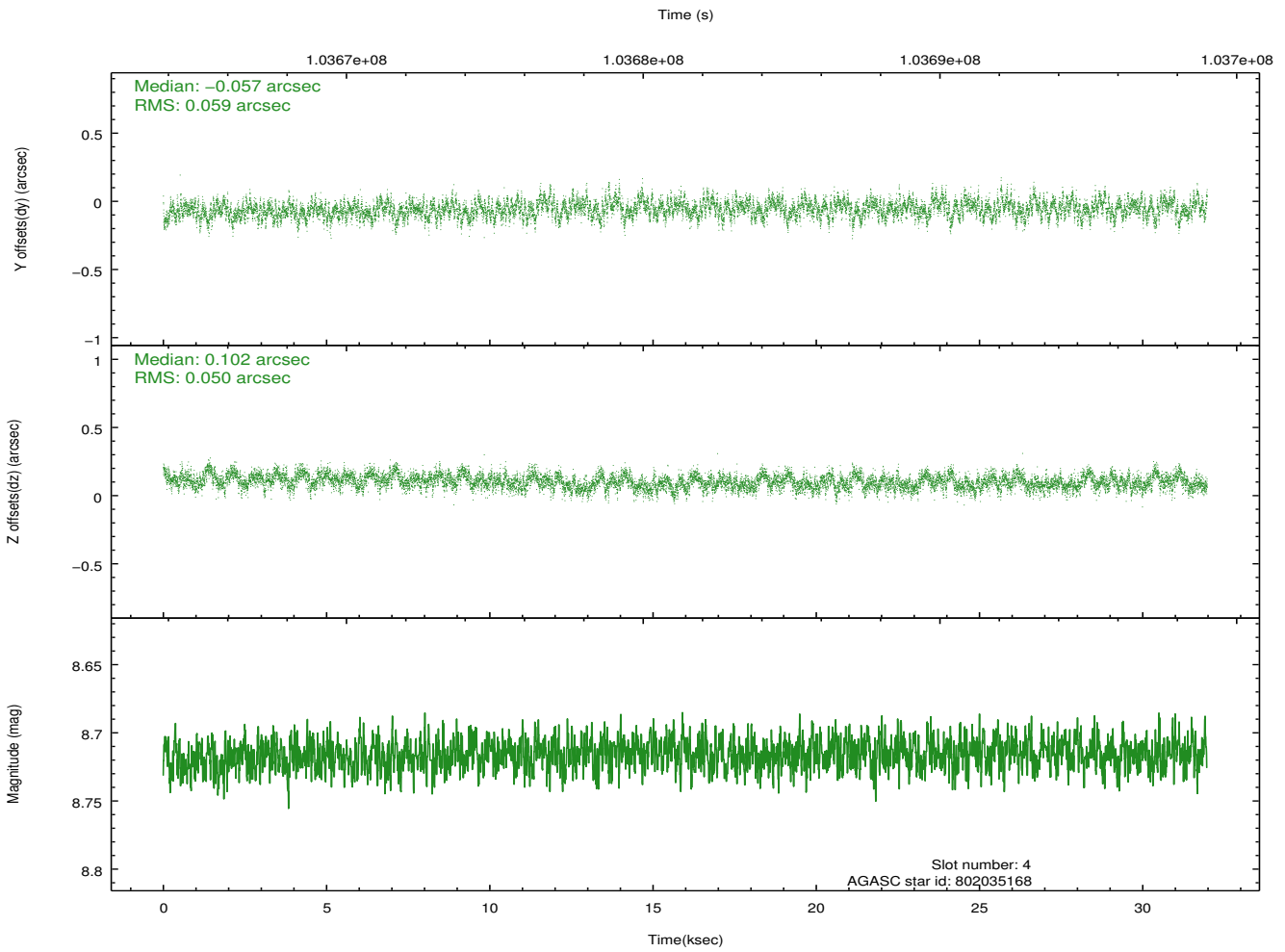
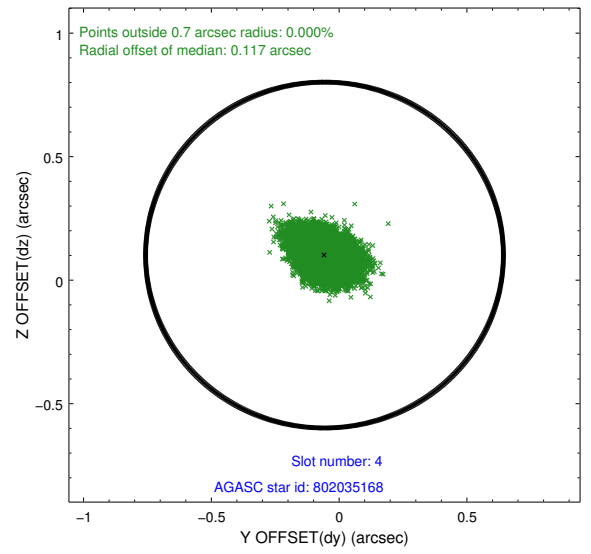
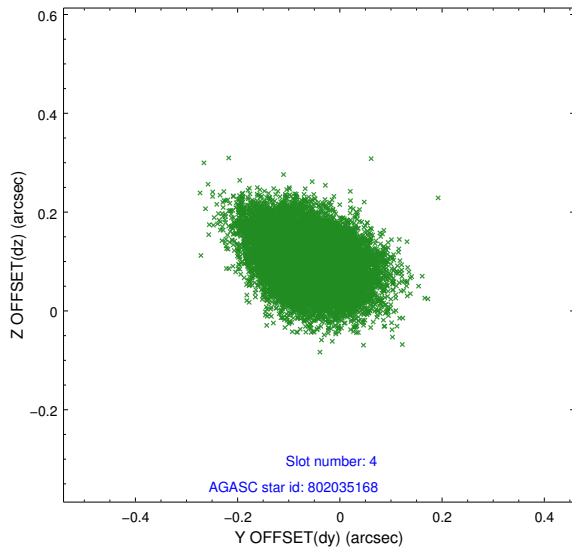
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7799	-0.037	-0.001	0.015	0.025	0.000000	0.000000	-755.17	-1726.61
1	FID	ACIS-S-4	7.20	7797	-0.026	0.019	0.015	0.024	0.000000	0.000000	2158.04	181.90
2	FID	ACIS-S-5	7.24	7798	0.031	-0.009	0.008	0.014	0.000000	0.000000	-1807.92	175.52
3	GUIDE	801644824	8.50	15593	-0.032	-0.172	0.073	0.118	198.740363	-19.034769	730.75	2343.88
4	GUIDE	802035168	8.72	15591	-0.057	0.102	0.081	0.134	198.342818	-20.271560	1472.30	-2248.25
5	GUIDE	801644872	9.23	15594	0.000	0.039	0.072	0.120	198.319234	-19.753800	581.18	-609.54
6	GUIDE	801645648	9.26	15594	0.077	0.103	0.082	0.132	197.743817	-19.496149	-1579.03	-637.95
7	GUIDE	801644296	9.40	15587	0.016	-0.075	0.072	0.118	197.878729	-19.305440	-1472.11	180.27

2.4 Star Slots

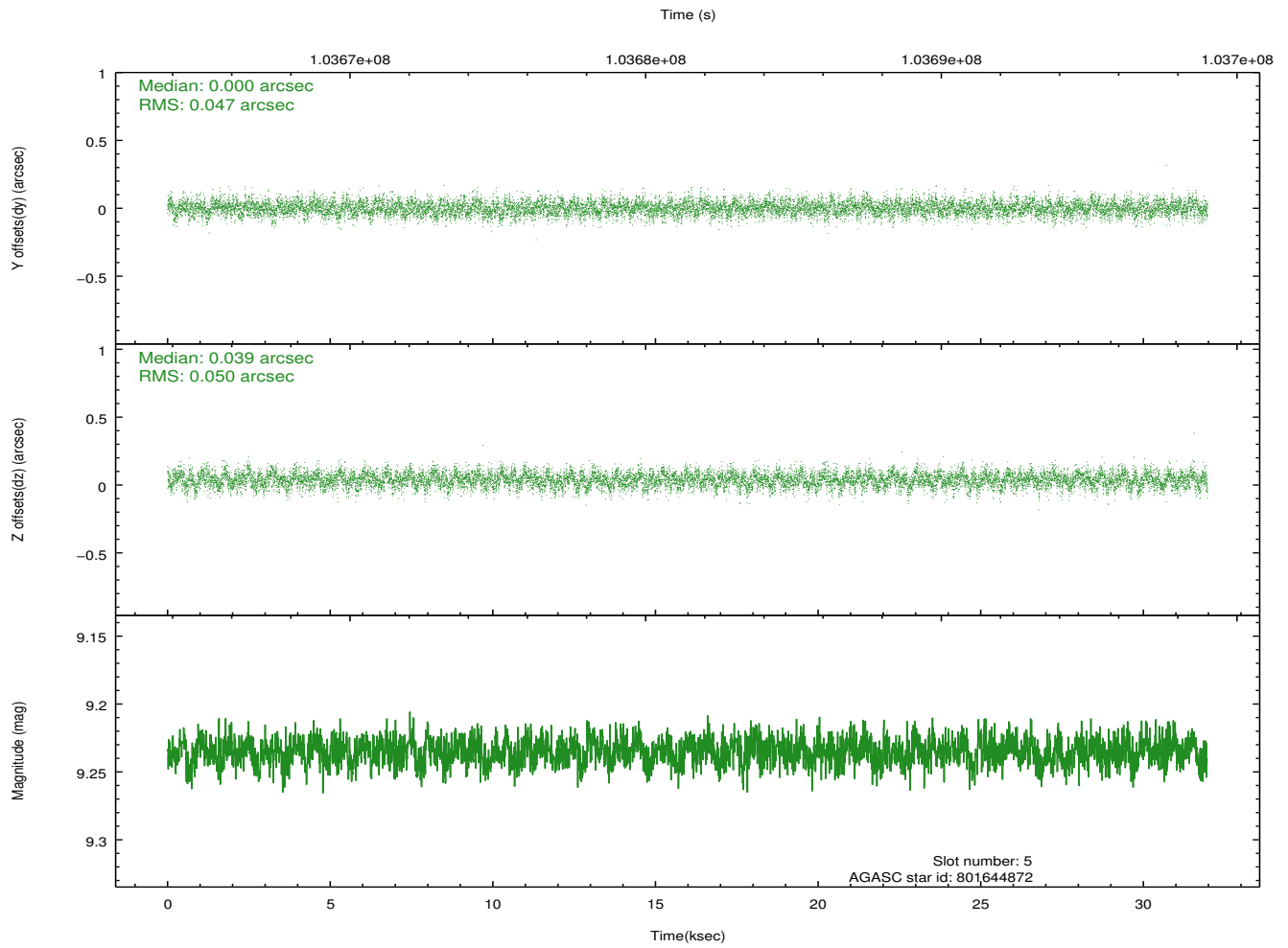
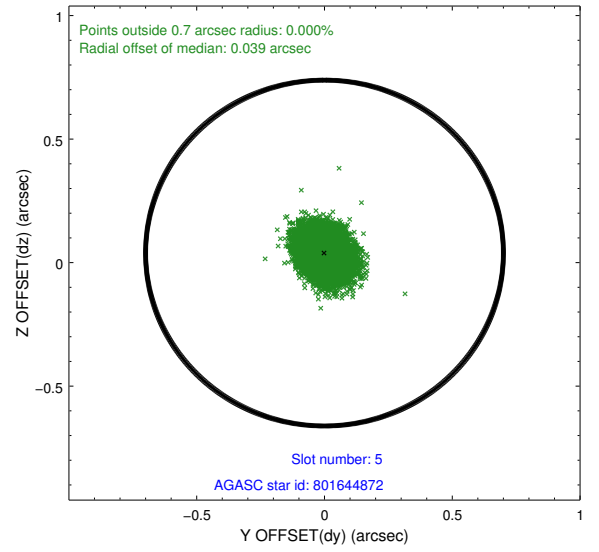
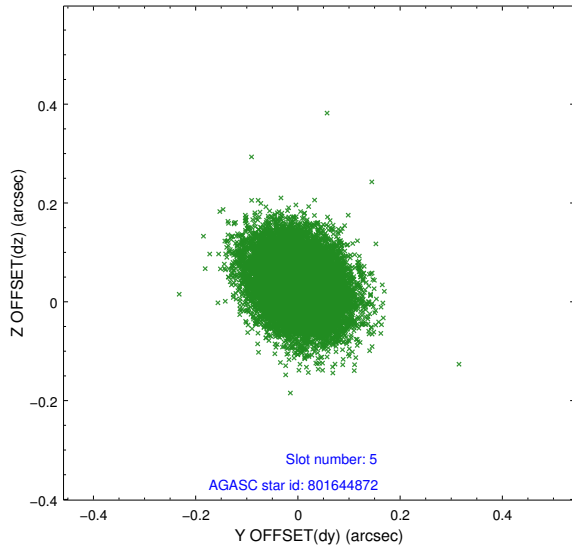
2.4.1 Slot 3



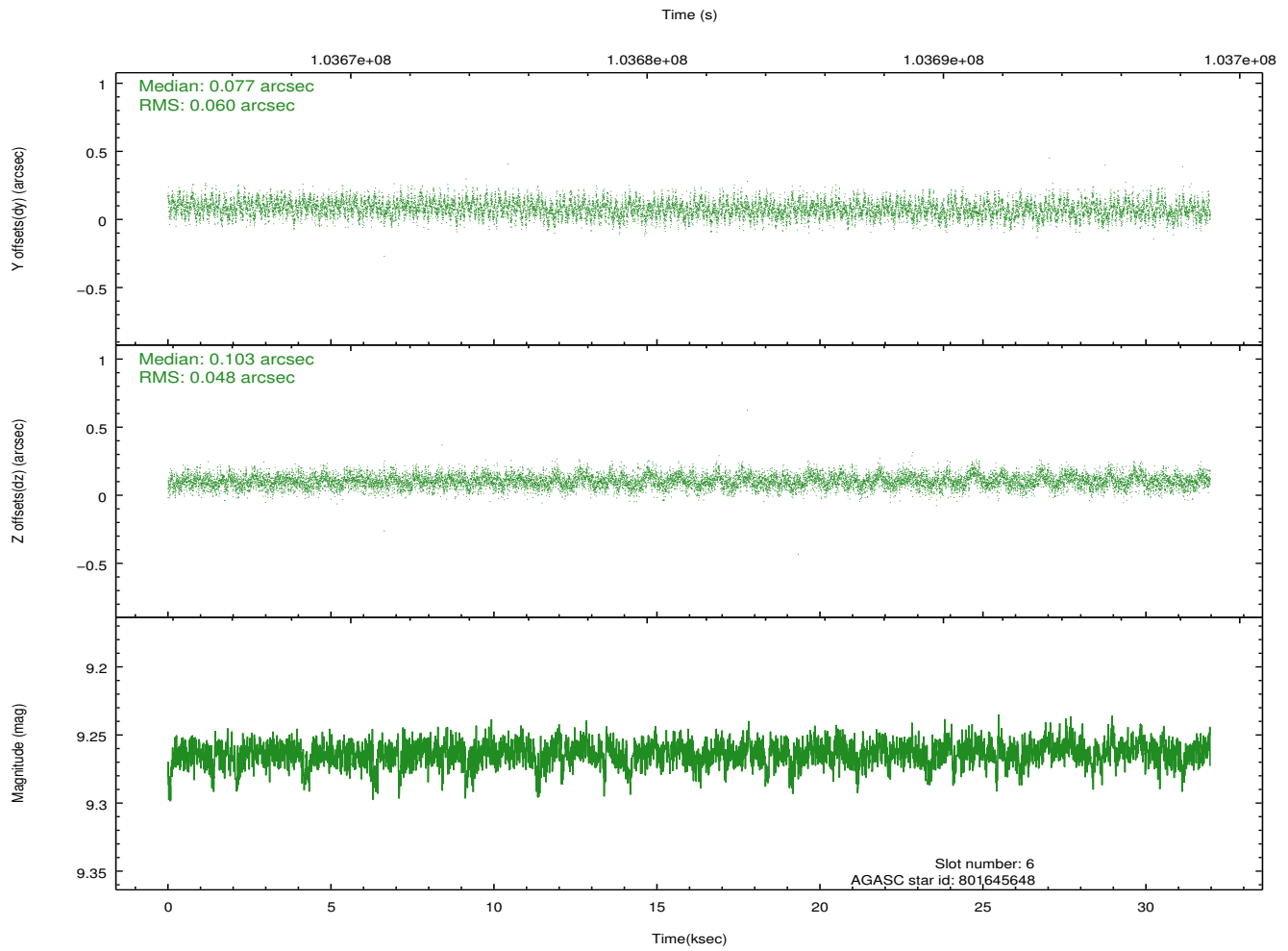
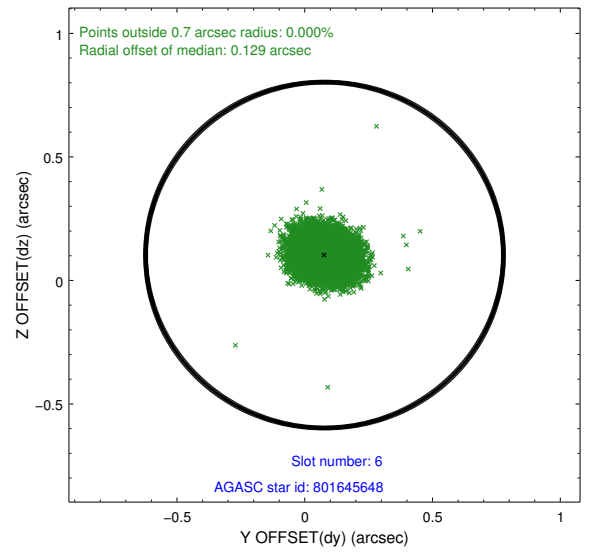
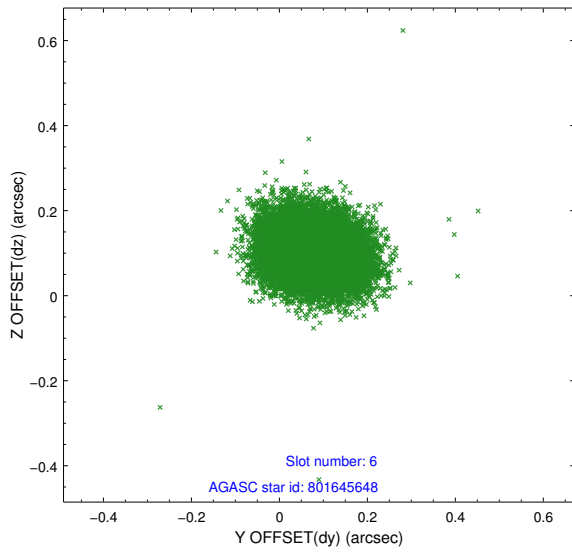
2.4.2 Slot 4



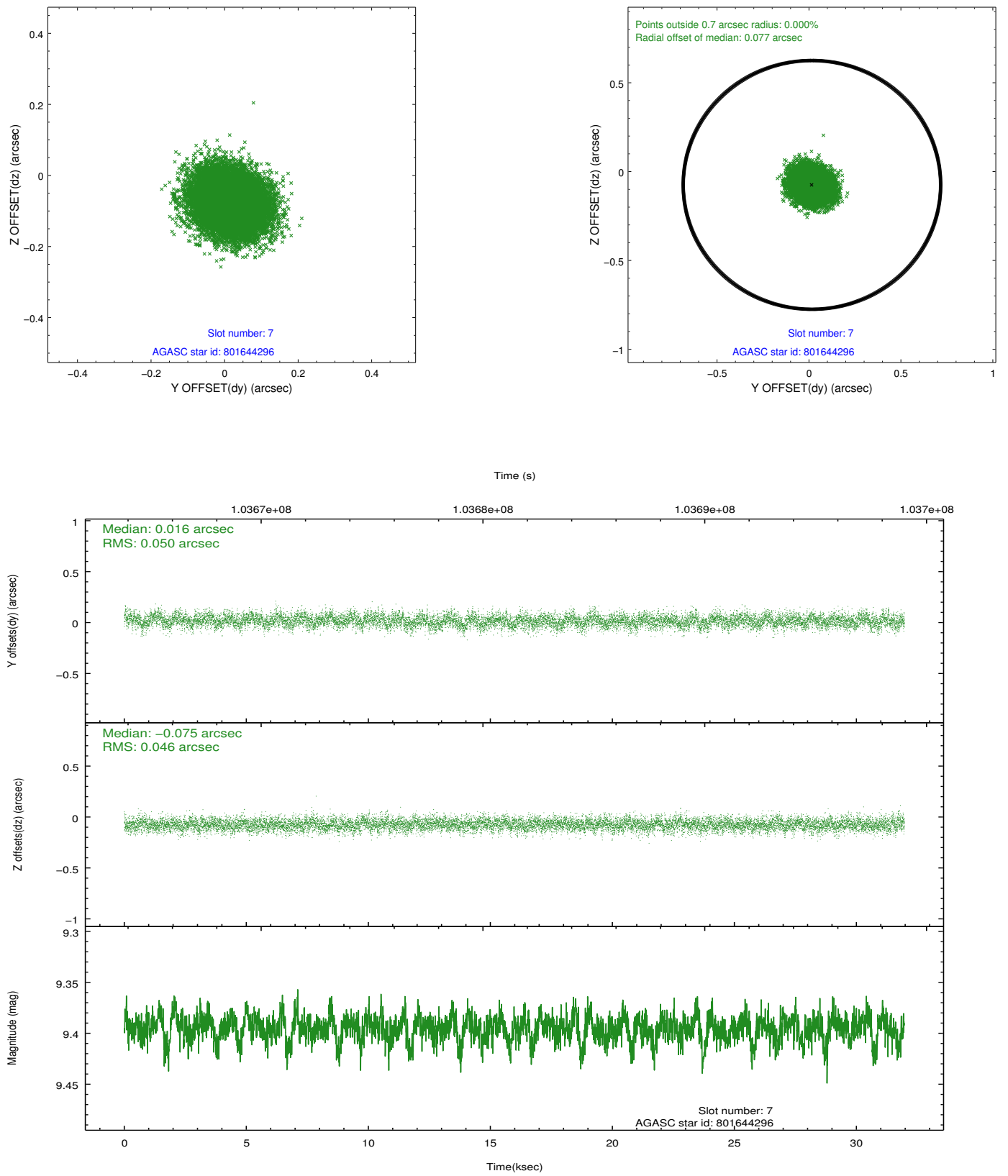
2.4.3 Slot 5



2.4.4 Slot 6

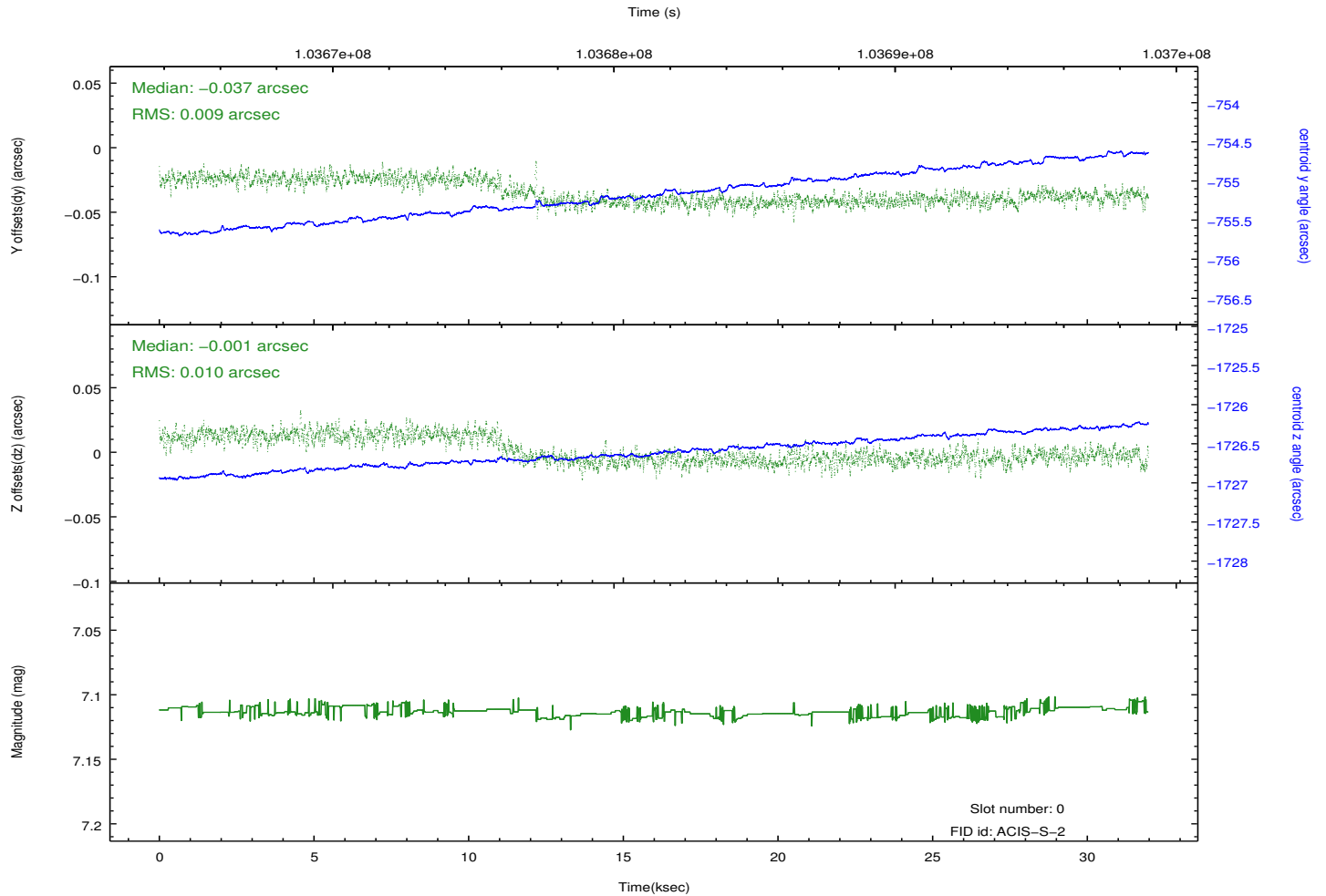
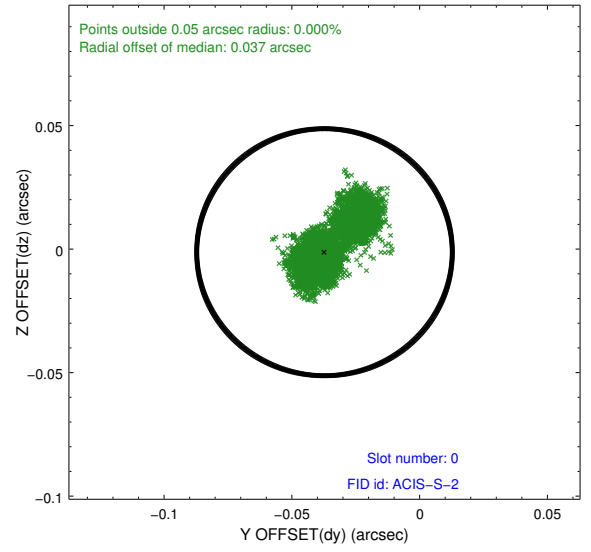
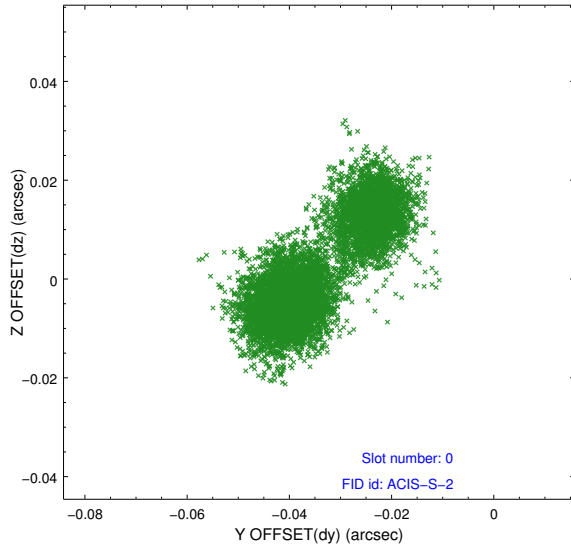


2.4.5 Slot 7

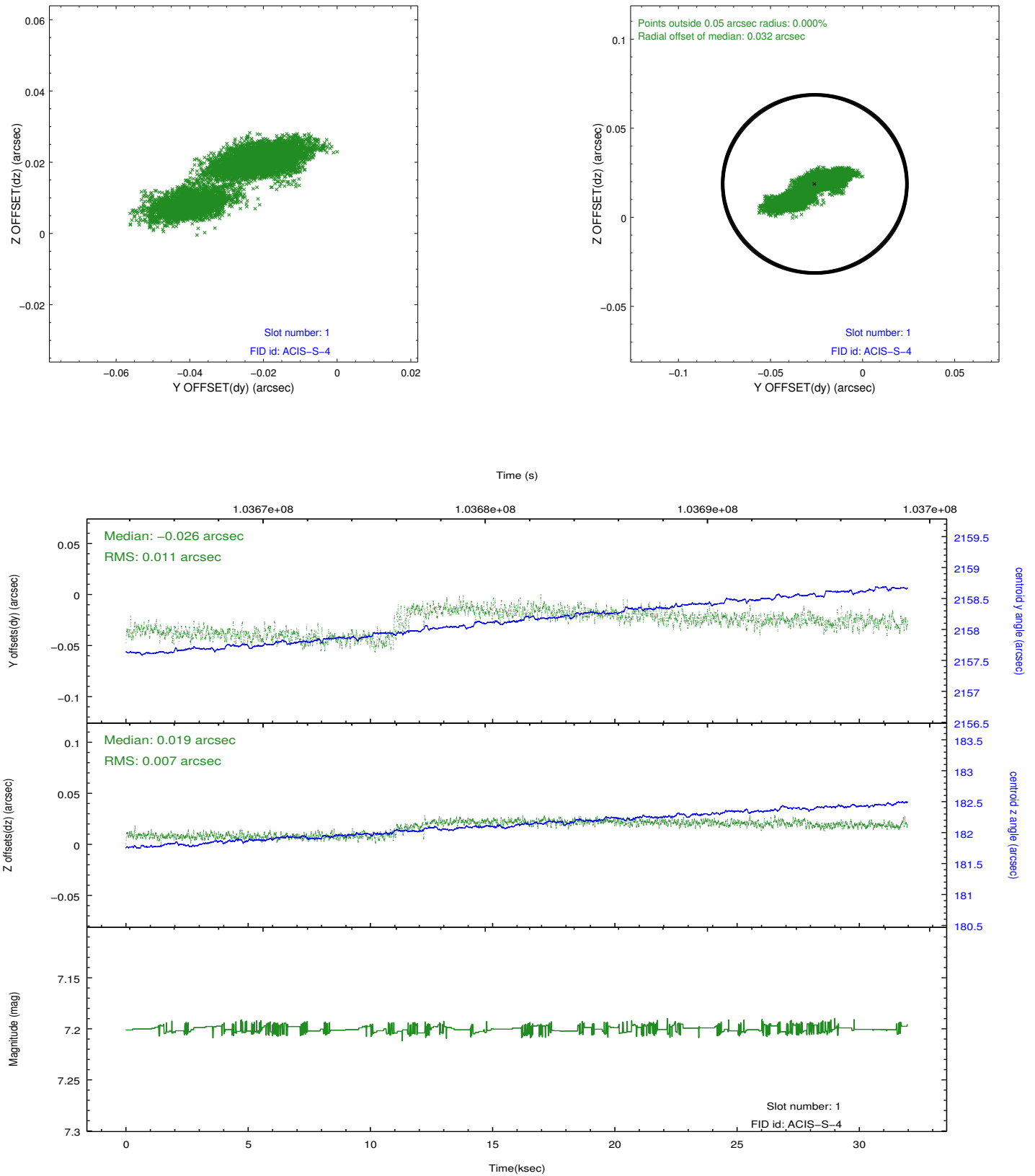


2.5 FID Slots

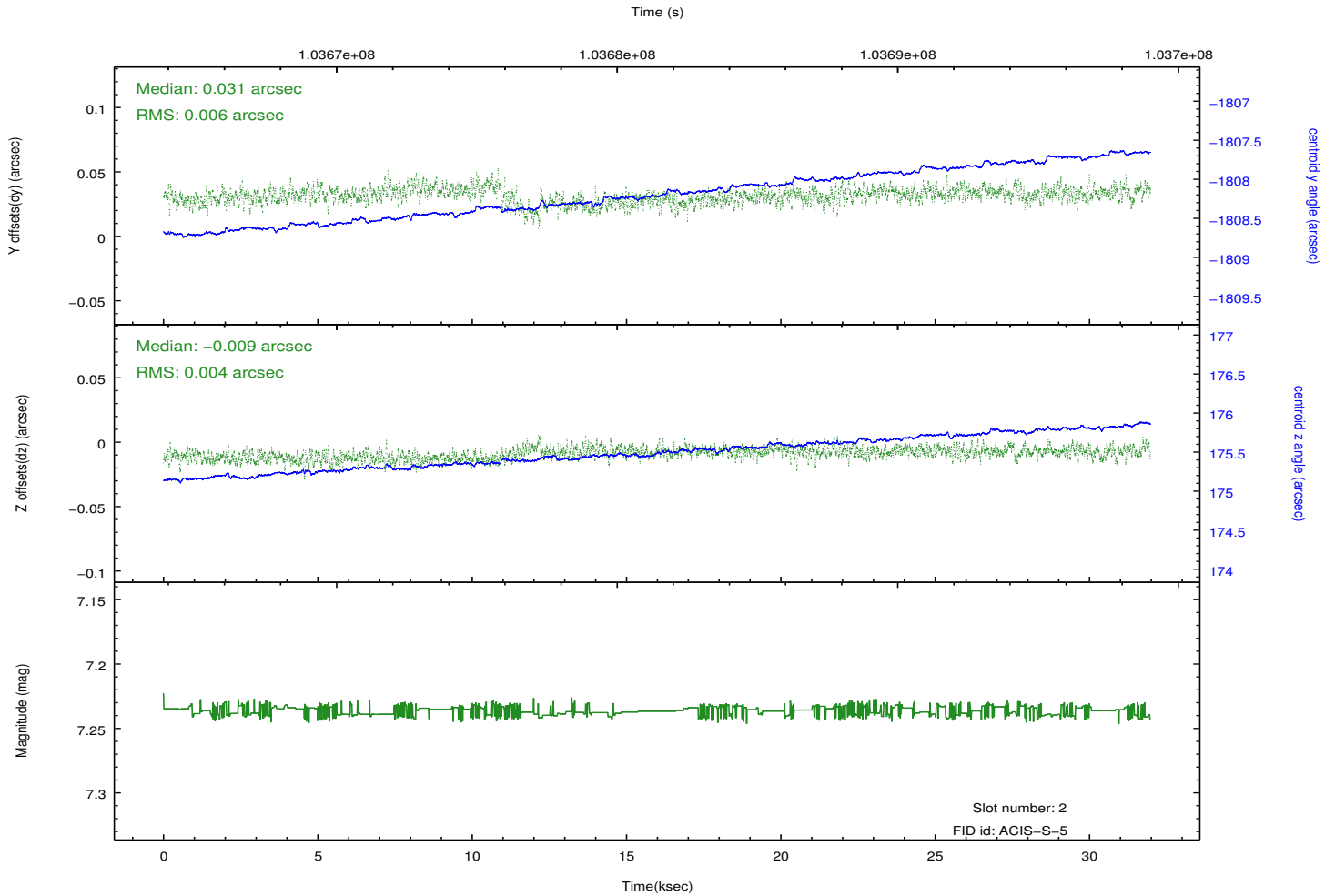
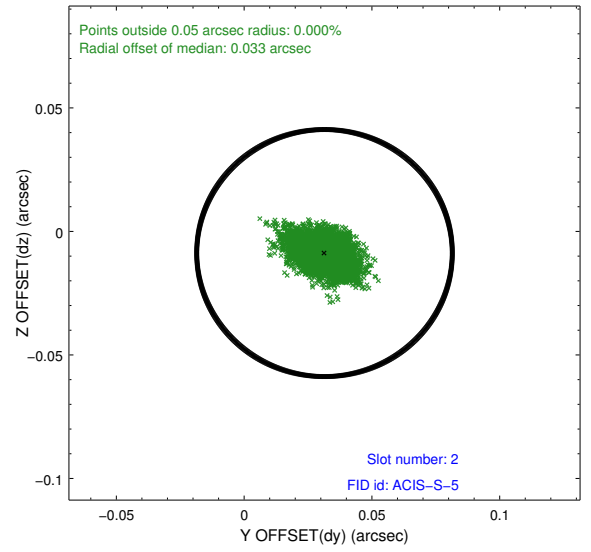
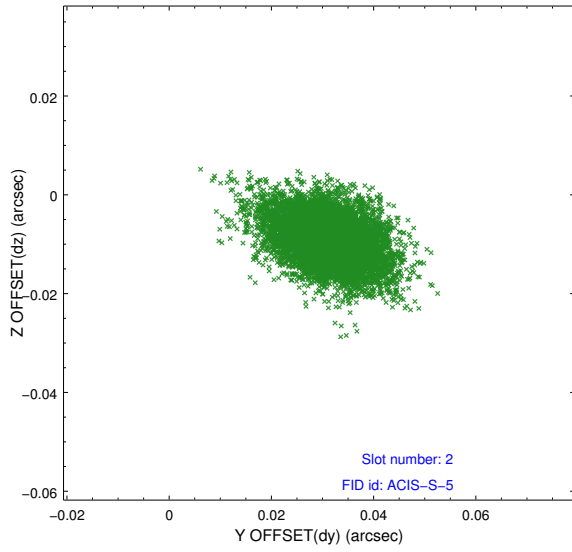
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.3

A.2 Comments

Roll constraint met.