

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5009 - L2 Version 3
Chandra X-Ray Center

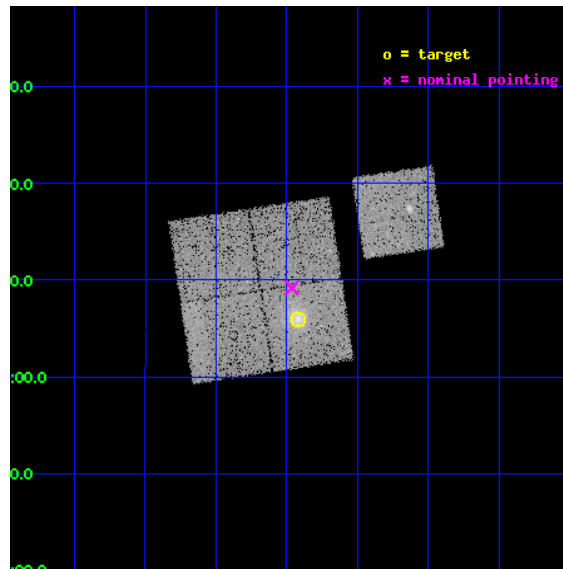
L2 Processing Date : Nov 12 2012

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1 Front

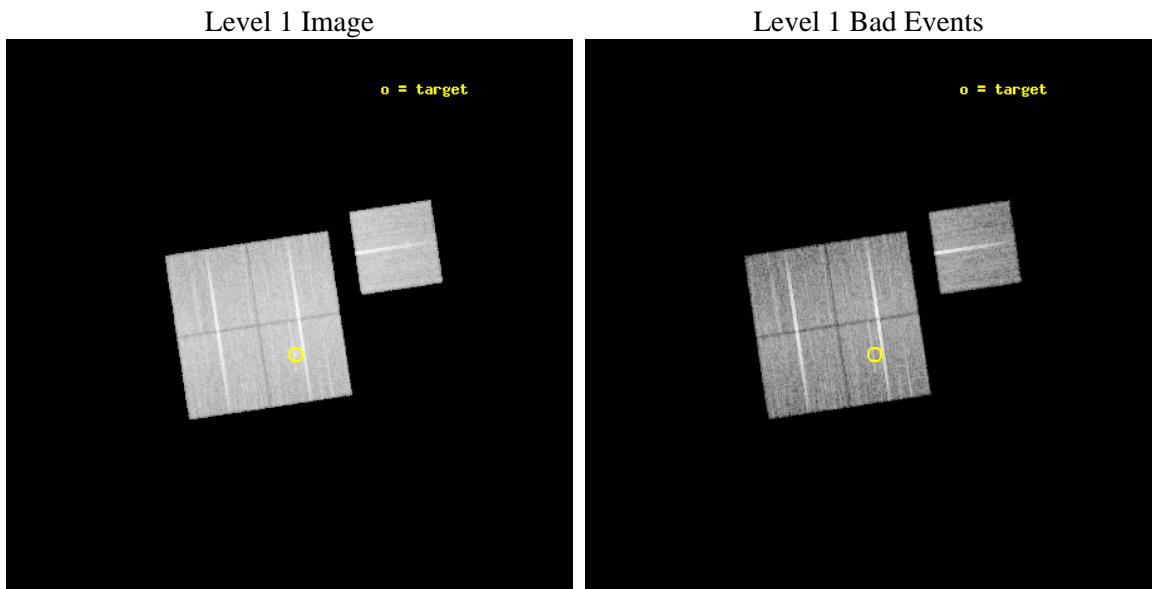
seq_num	800452	Sequence number
obs_id	5009	Observation id
title	Cluster studies: Determination of H0/q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	MACS1108.8+0906	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	167.230833	Observer's specified target RA [deg]
dec_targ	9.1	Observer's specified target Dec [deg]
ra_nom	167.24102179061	Nominal RA [deg]
dec_nom	9.1533973721362	Nominal Dec [deg]
roll_nom	81.427128307297	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24790.658972055	Sum of GTIs [s]
livetime	24466.750761967	Livetime [s]
ontime0	24787.517991841	Sum of GTIs [s]
ontime1	24790.658972085	Sum of GTIs [s]
ontime2	24787.518001854	Sum of GTIs [s]
ontime3	24790.658972055	Sum of GTIs [s]
ontime6	24787.518011719	Sum of GTIs [s]
l2events	63409	Number of level 2 events



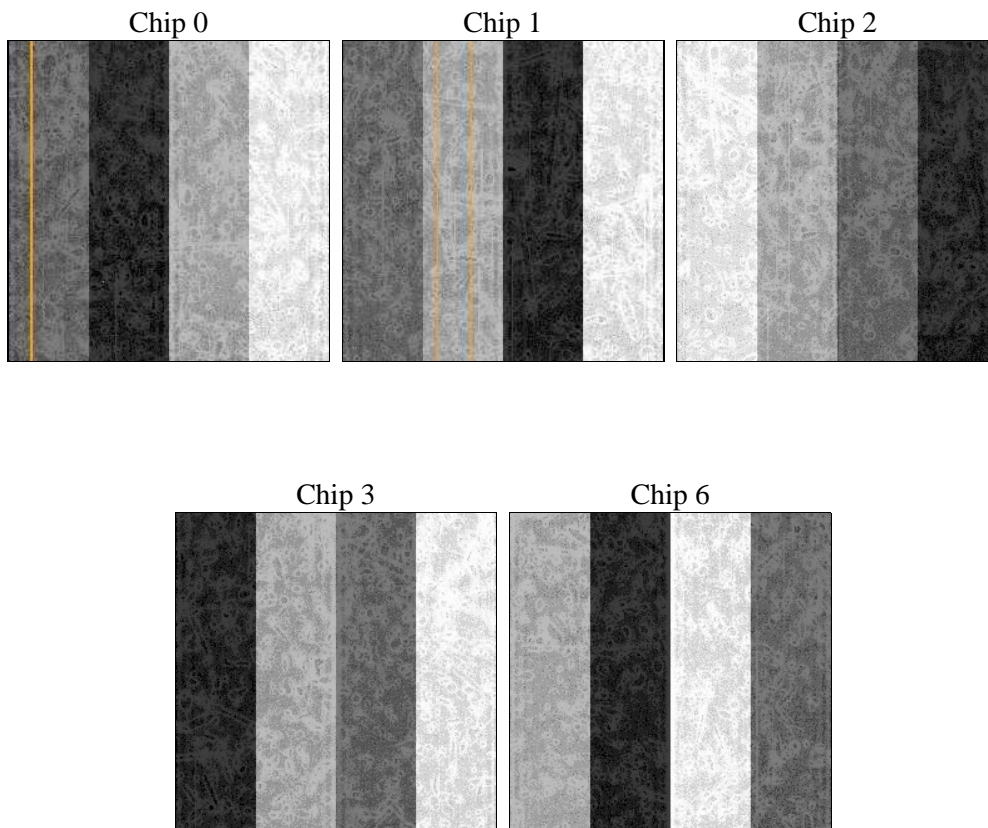
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	24617.860000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	24790.658972055	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	24787.517991841	Sum of GTIs [s]
date	2012-11-12T01:43:52	Date and time of file creation	ontime1	24790.658972085	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	24787.518001854	Sum of GTIs [s]
			ontime3	24790.658972055	Sum of GTIs [s]
			ontime6	24787.518011719	Sum of GTIs [s]
			l1events	699501	Number of level 1 events

2.1.4 Events

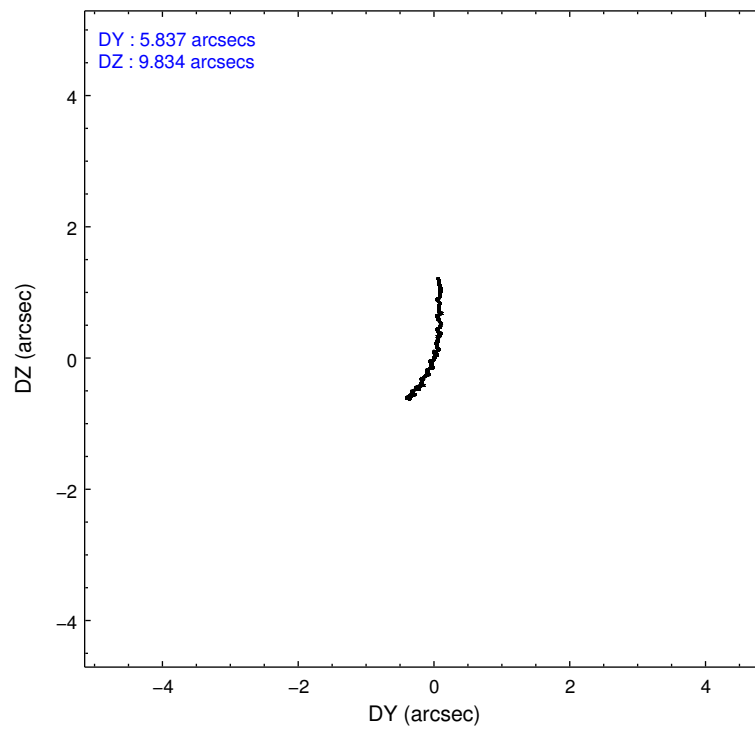
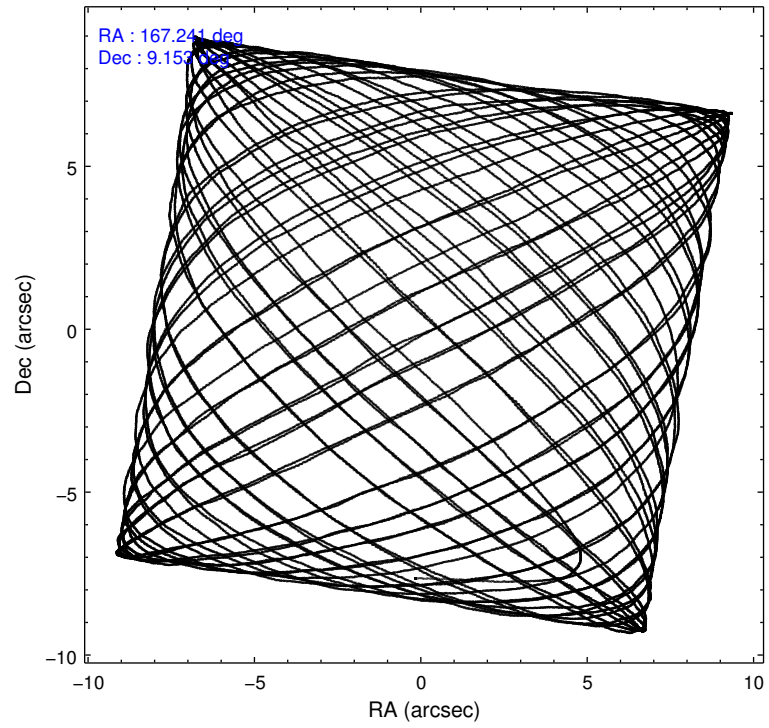
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	130224	133106	150966	145314	139891
rejected events	116368	117616	137187	127860	124894
rejected %	89%	88%	90%	87%	89%

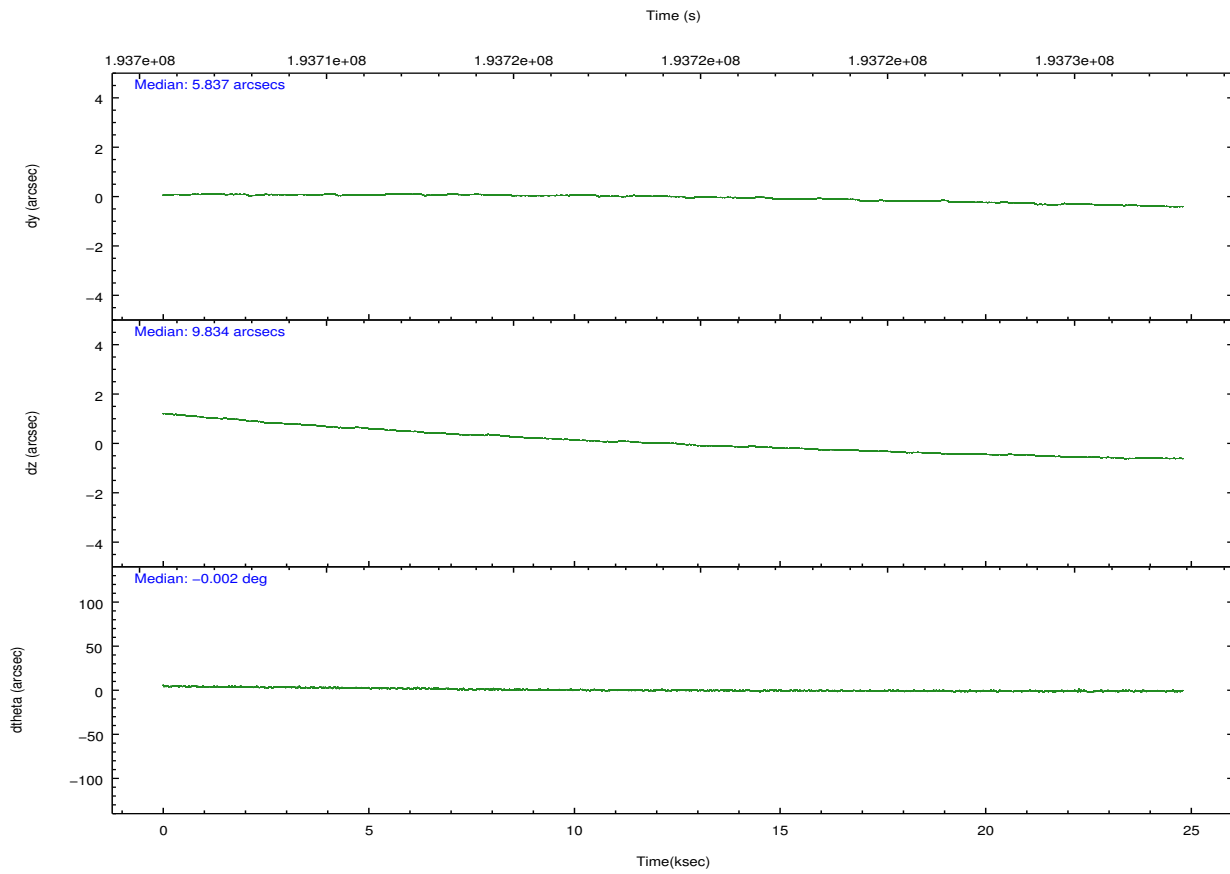
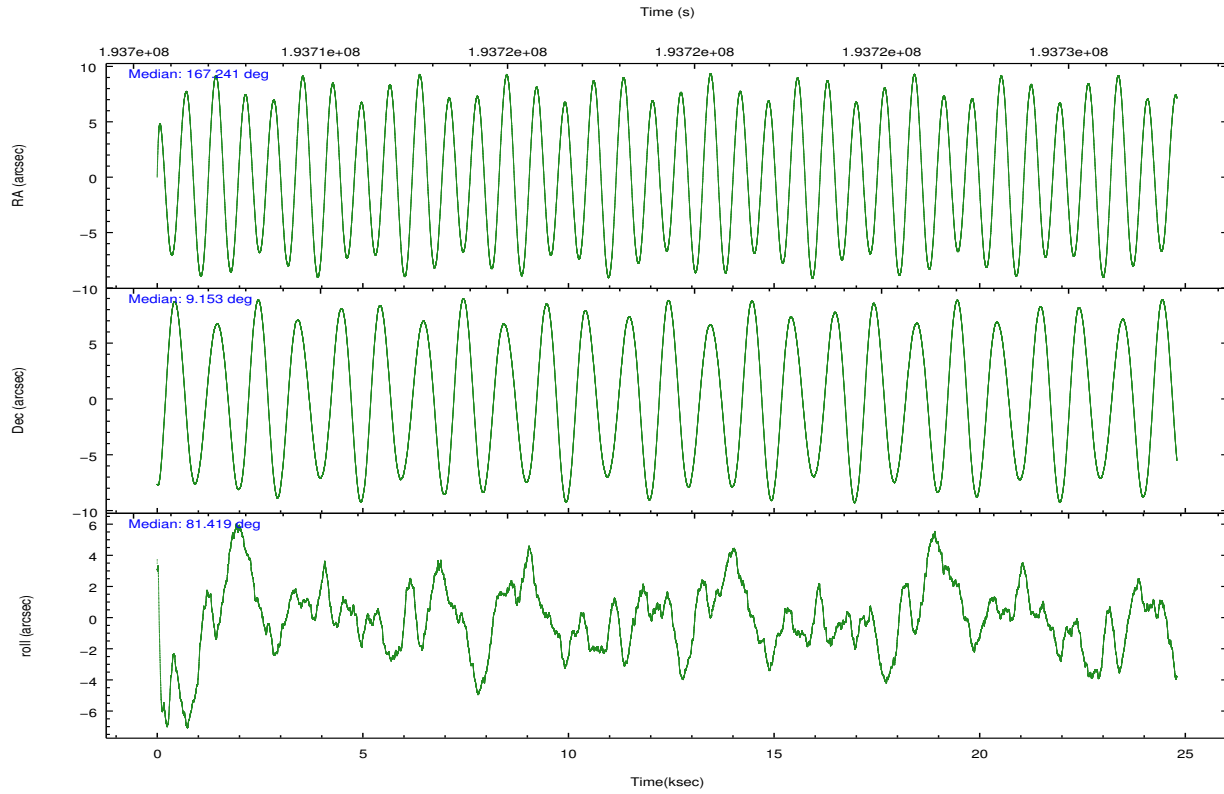
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4995	5740	5219	8431	5846
	3%	4%	3%	5%	4%
grade 1 events	72	72	81	99	67
	0%	0%	0%	0%	0%
grade 2 events	3250	3312	3195	3242	3136
	2%	2%	2%	2%	2%
grade 3 events	1696	1769	1569	1730	1681
	1%	1%	1%	1%	1%
grade 4 events	1537	1760	1593	1670	1655
	1%	1%	1%	1%	1%
grade 5 events	5050	5308	4843	5641	5501
	3%	3%	3%	3%	3%
grade 6 events	2735	3267	2551	2779	3075
	2%	2%	1%	1%	2%
grade 7 events	110889	111878	131915	121722	118930
	85%	84%	87%	83%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	167.251258	167.2410217906146	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.127913	9.153397372136178	Alternating exposures requested	N	N
[deg] Pointing Roll	81.216808	81.42712830729651	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.840463	-225.8433433320239			
[mm] SIM translation stage offset	-7.752	-7.749109670905796			
[s] Observation start time (MET)	193707043.184000	193705728.62765			
Observation start date	2004-02-20T23:29:39	2004-02-20T23:08:48			
[s] Observation end time (MET)	193731661.184000	193731975.80379			
Observation end date	2004-02-21T06:19:57	2004-02-21T06:26:15			
Read mode	TIMED	TIMED			

2.3 Aspect



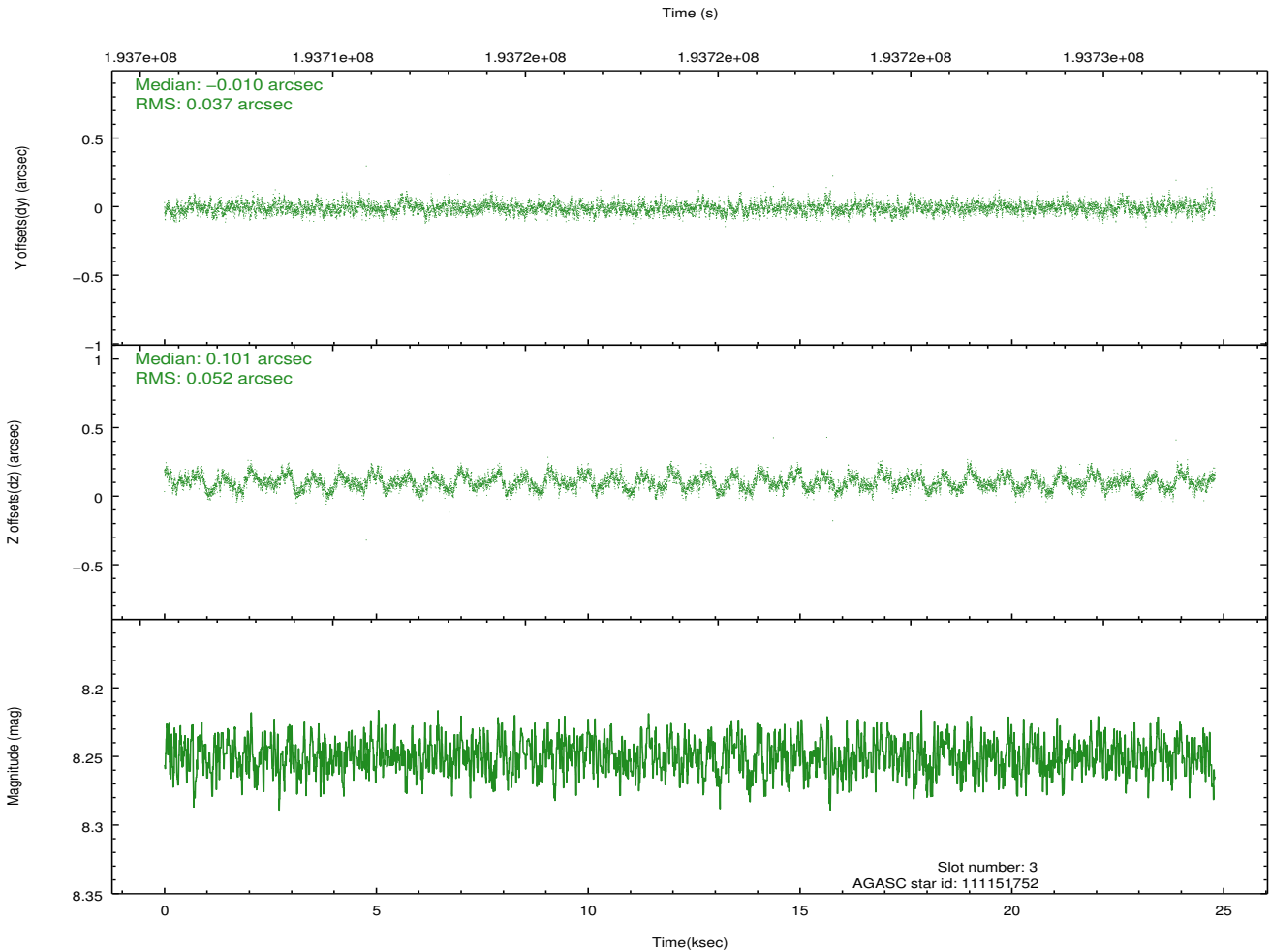
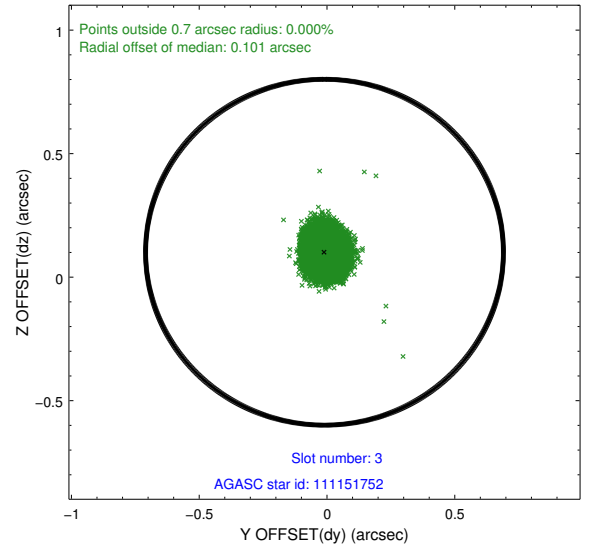
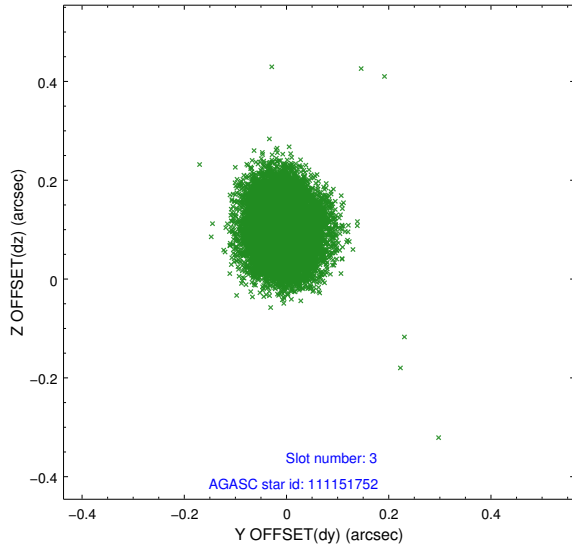


Slot Statistics

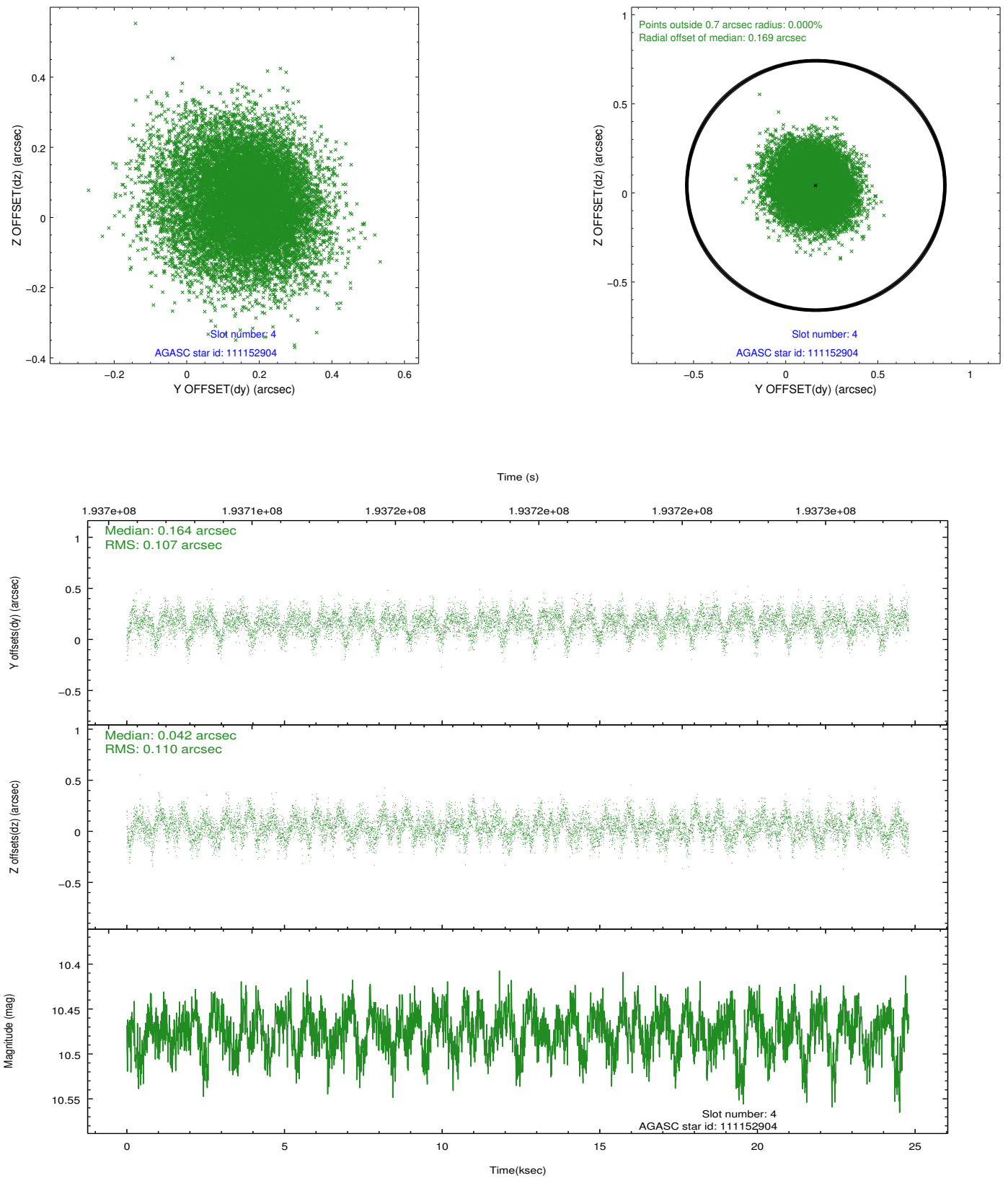
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	6049	0.093	-0.084	0.017	0.036	0.000000	0.000000	933.90	-992.54
1	FID	ACIS-I-5	7.22	6048	-0.241	0.079	0.013	0.030	0.000000	0.000000	-1814.48	905.03
2	FID	ACIS-I-6	7.25	6049	0.056	0.073	0.016	0.032	0.000000	0.000000	399.27	1549.67
3	GUIDE	111151752	8.25	12097	-0.010	0.101	0.069	0.107	167.025904	9.023657	-493.02	734.61
4	GUIDE	111152904	10.47	12034	0.164	0.042	0.164	0.266	167.041577	8.547579	-2178.37	418.52
5	GUIDE	111153480	8.97	12094	-0.116	0.025	0.083	0.136	166.768914	9.619364	1487.29	1963.30
6	GUIDE	111156792	9.83	12090	-0.127	-0.205	0.127	0.206	167.249601	9.695709	2019.28	318.21
7	GUIDE	111160288	9.66	12081	0.093	0.036	0.122	0.212	168.020770	9.652583	2287.38	-2409.75

2.4 Star Slots

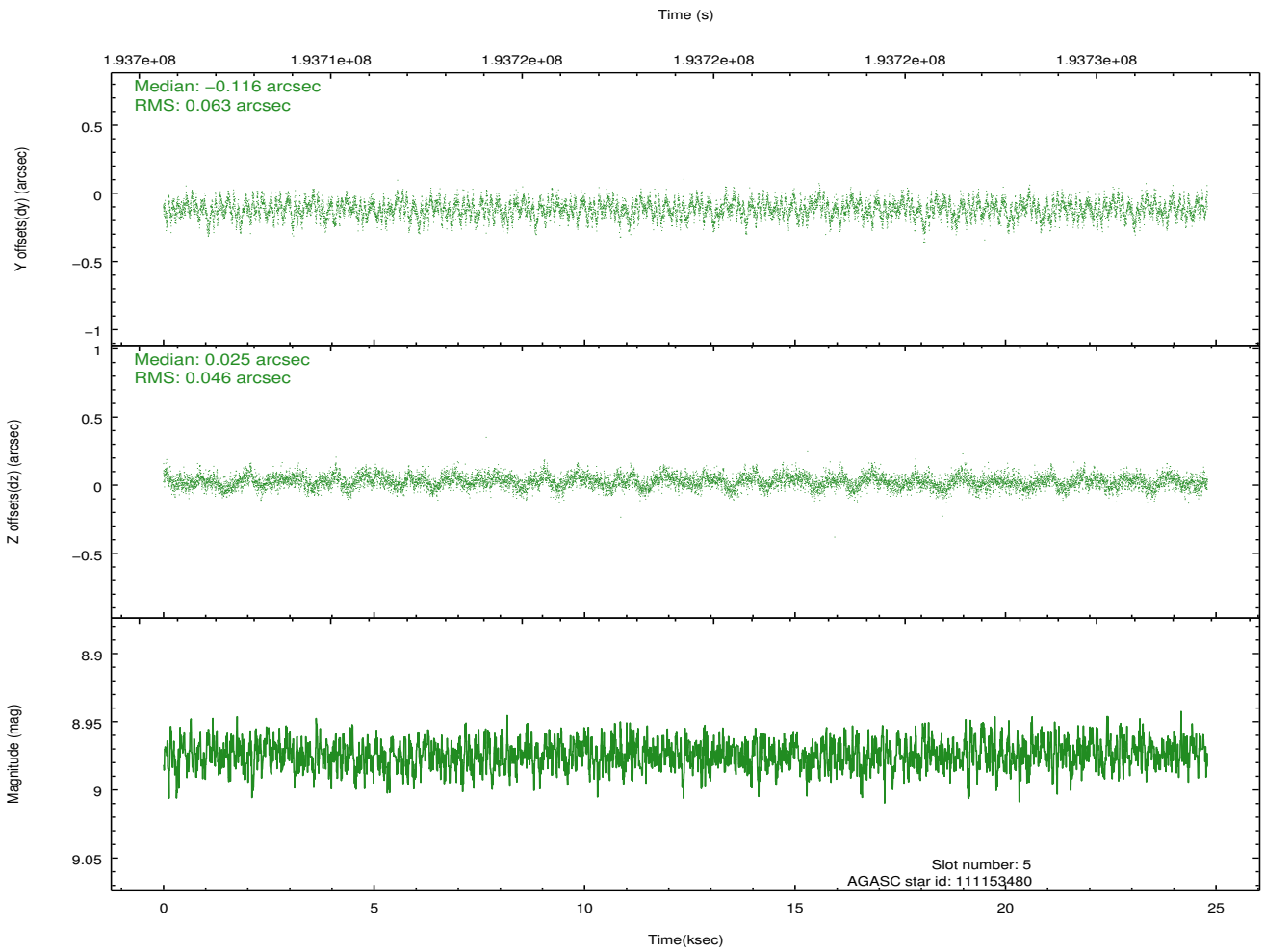
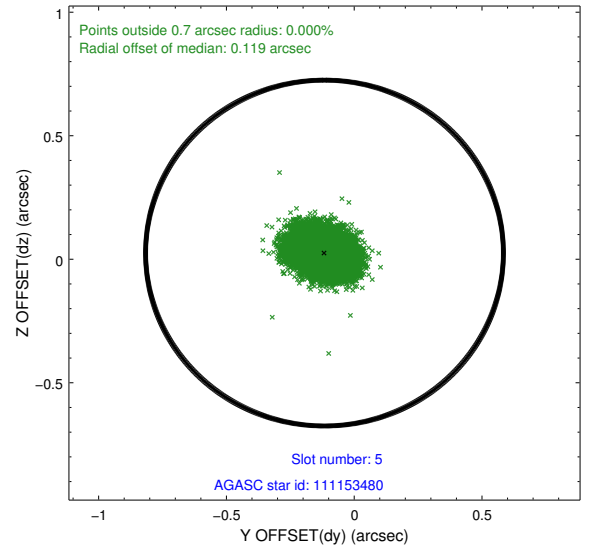
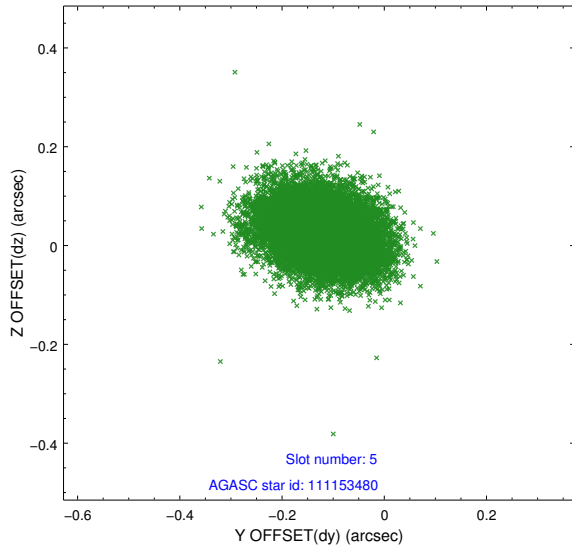
2.4.1 Slot 3



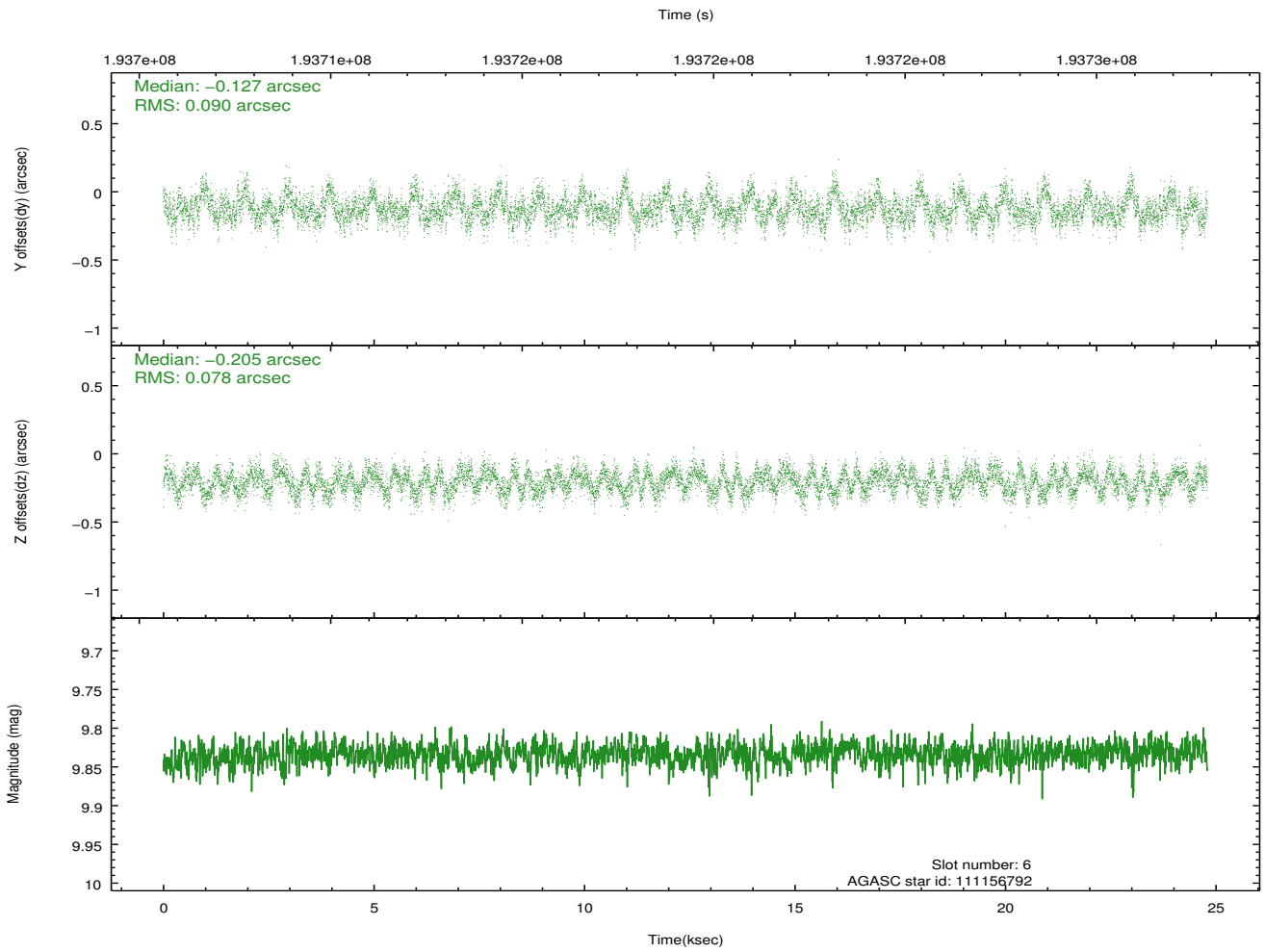
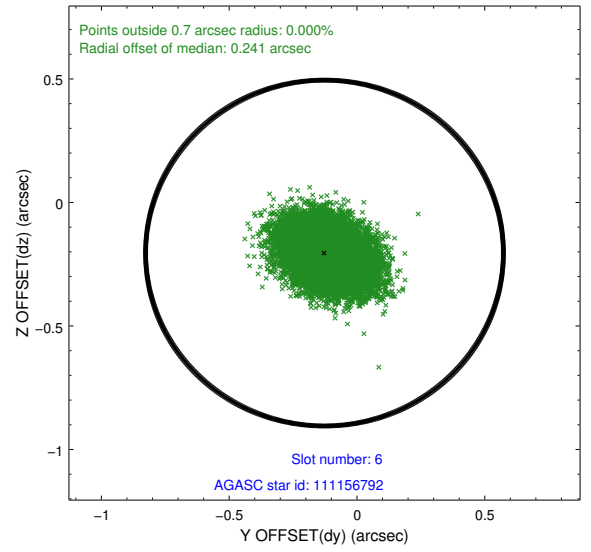
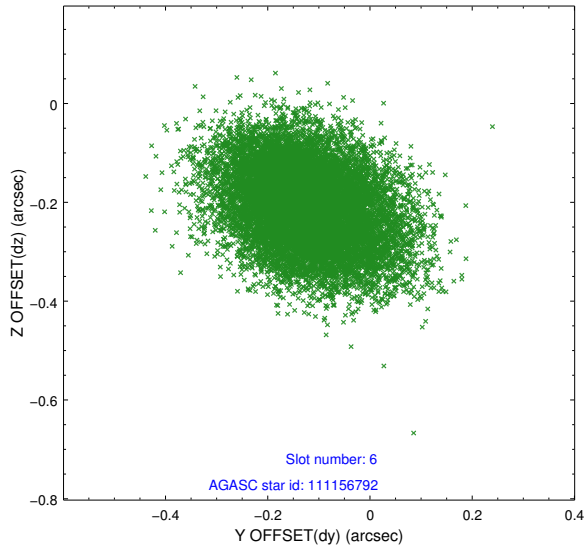
2.4.2 Slot 4



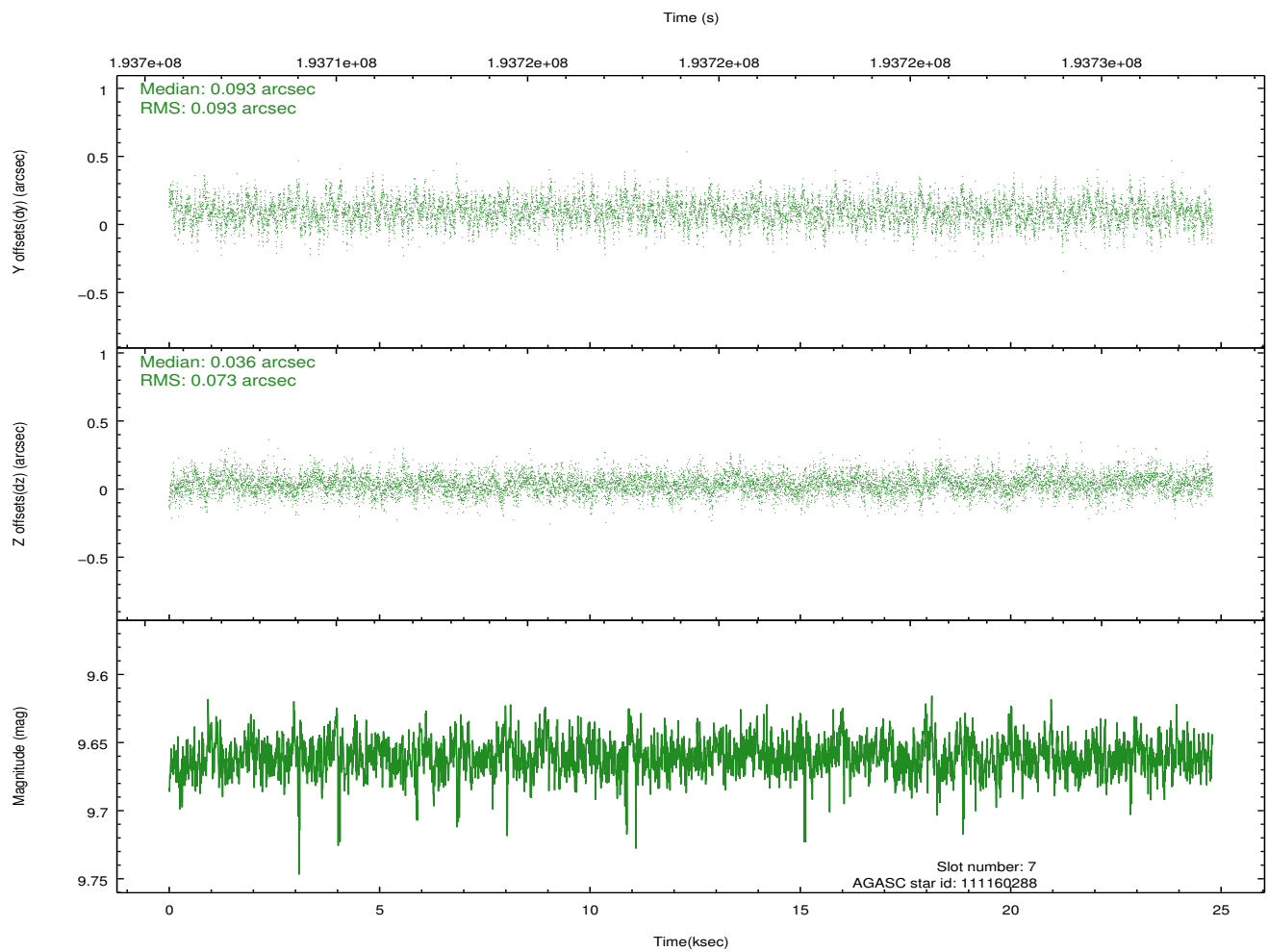
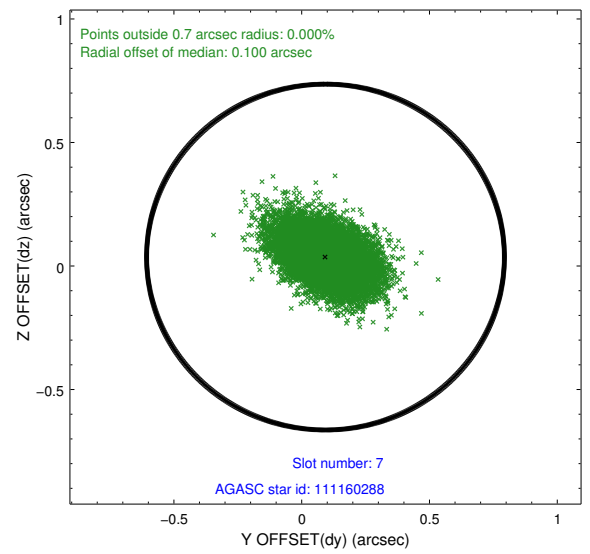
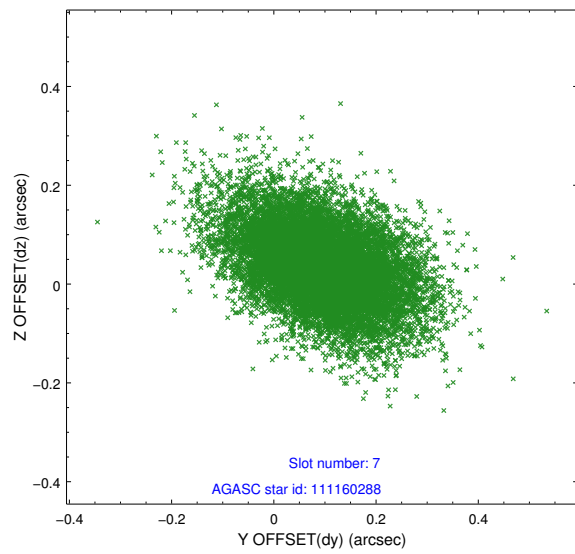
2.4.3 Slot 5



2.4.4 Slot 6

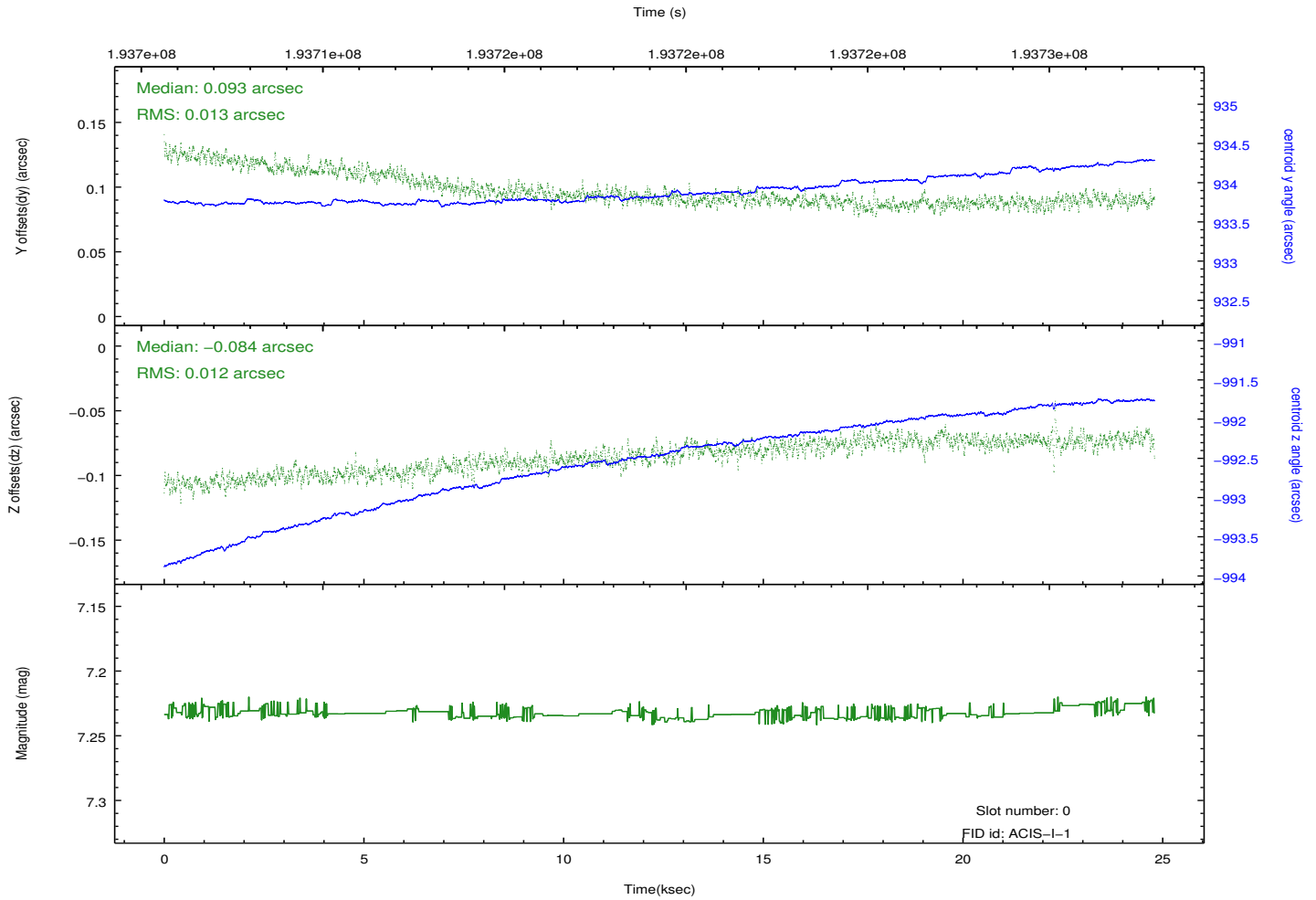
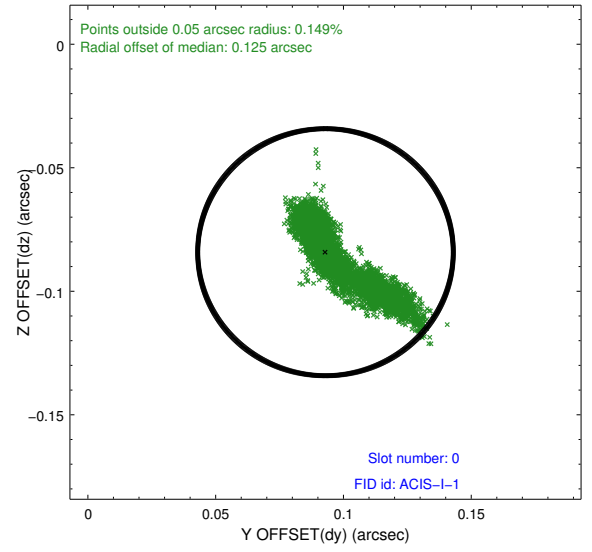
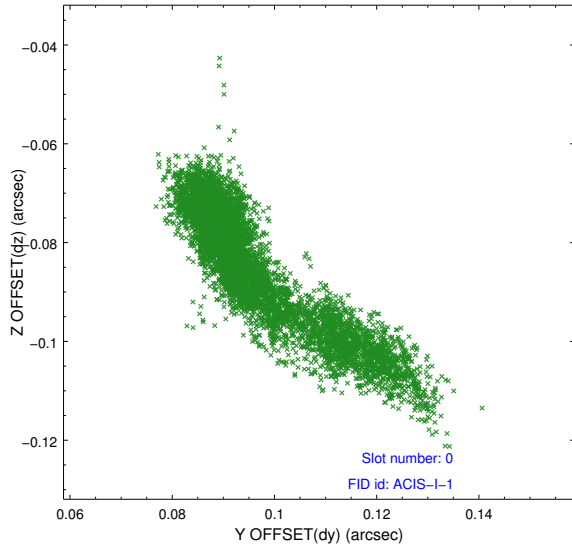


2.4.5 Slot 7

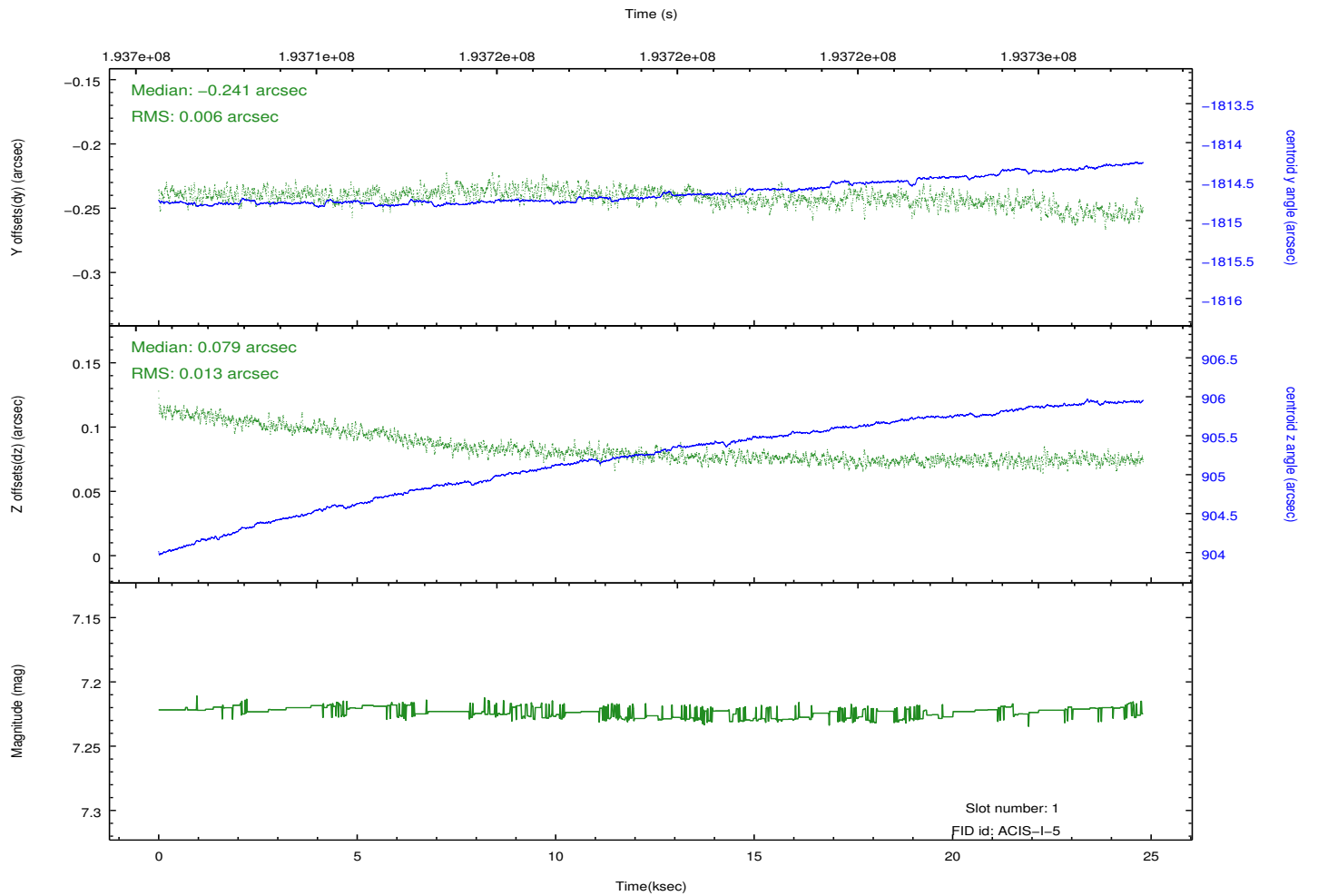
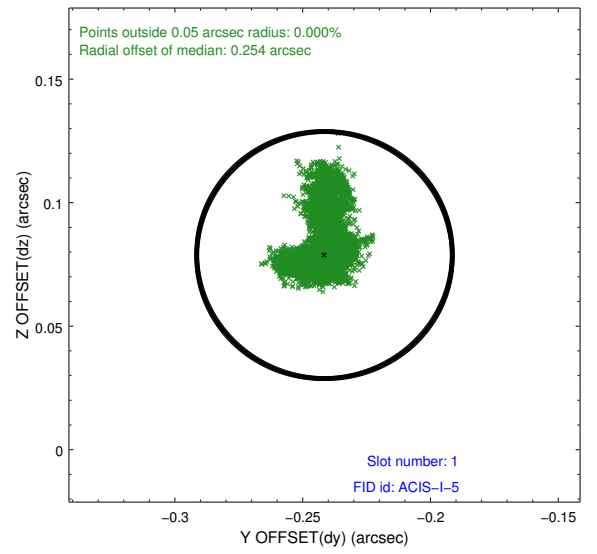
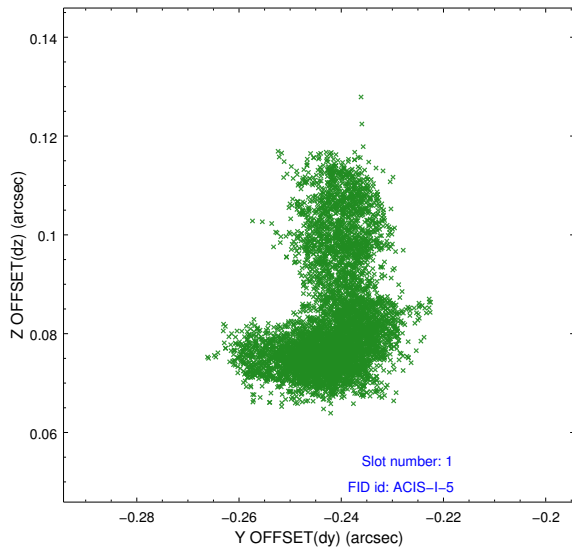


2.5 FID Slots

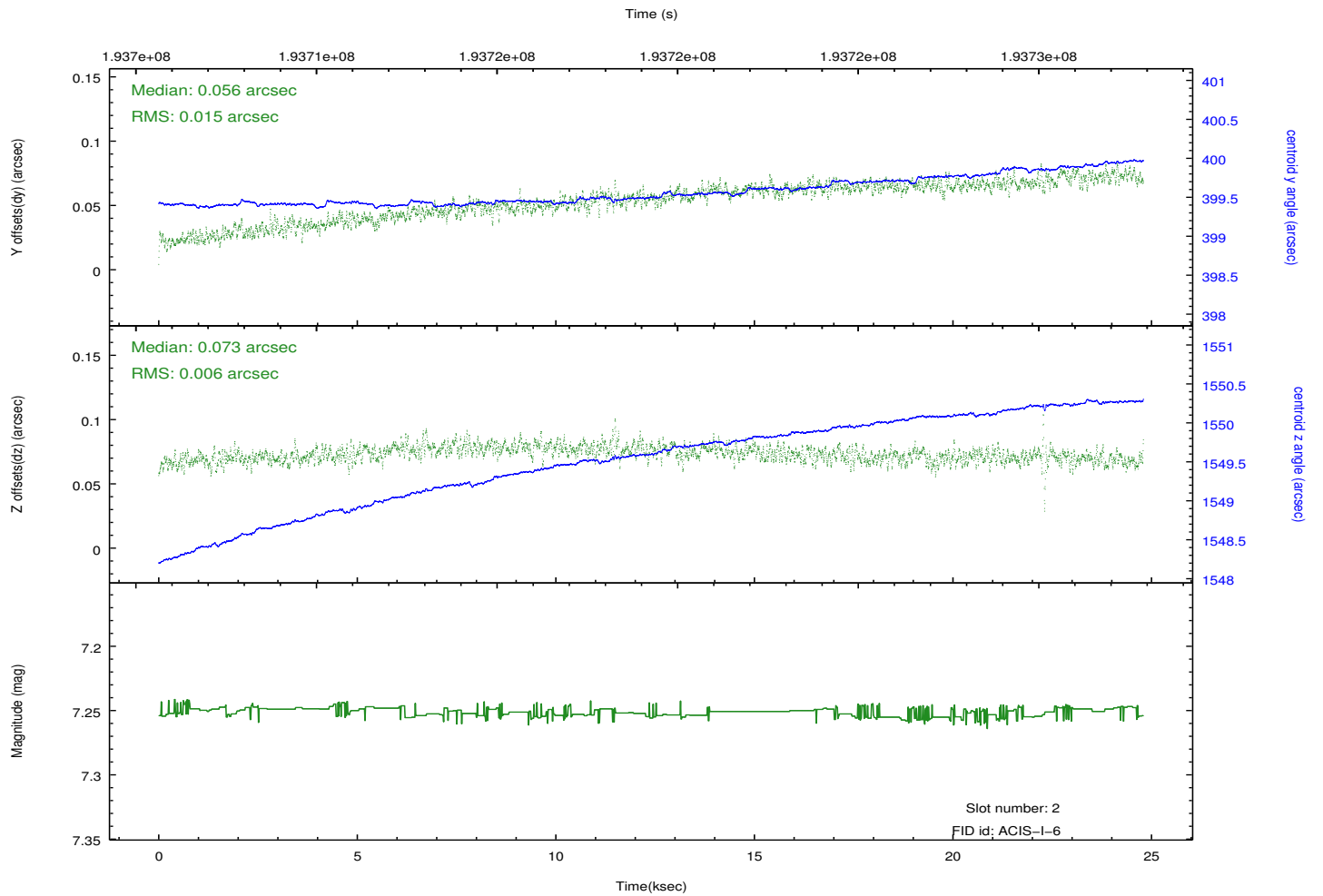
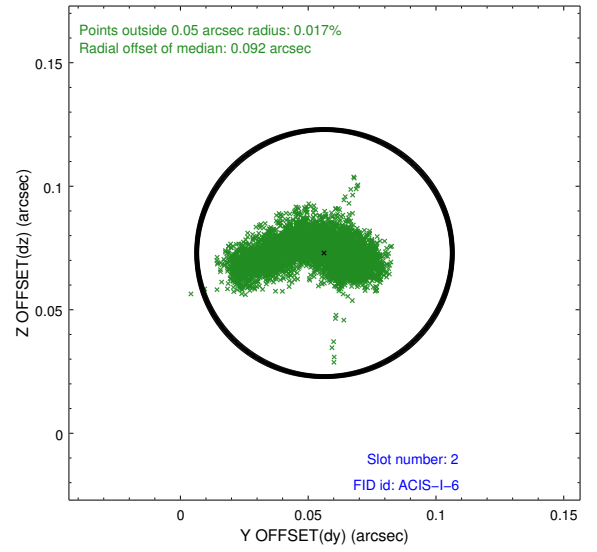
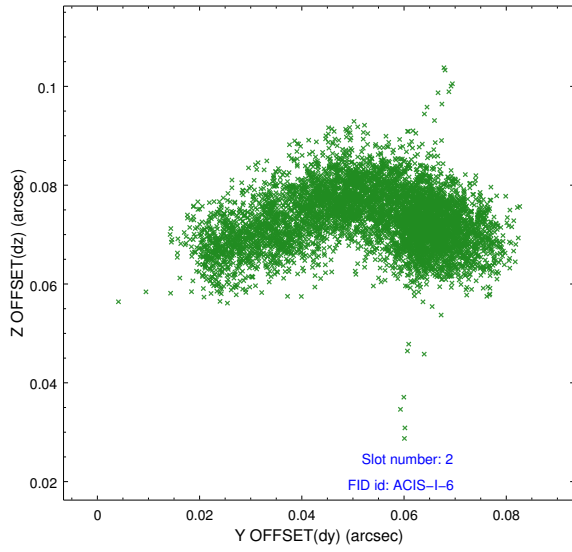
2.5.1 Slot 0



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)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.79

A.2 Comments