

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 14045 - L2 Version 1
Chandra X-Ray Center

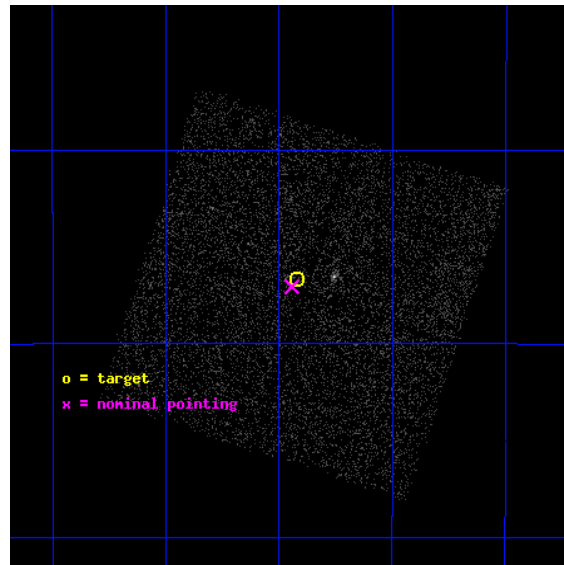
L2 Processing Date : May 27 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

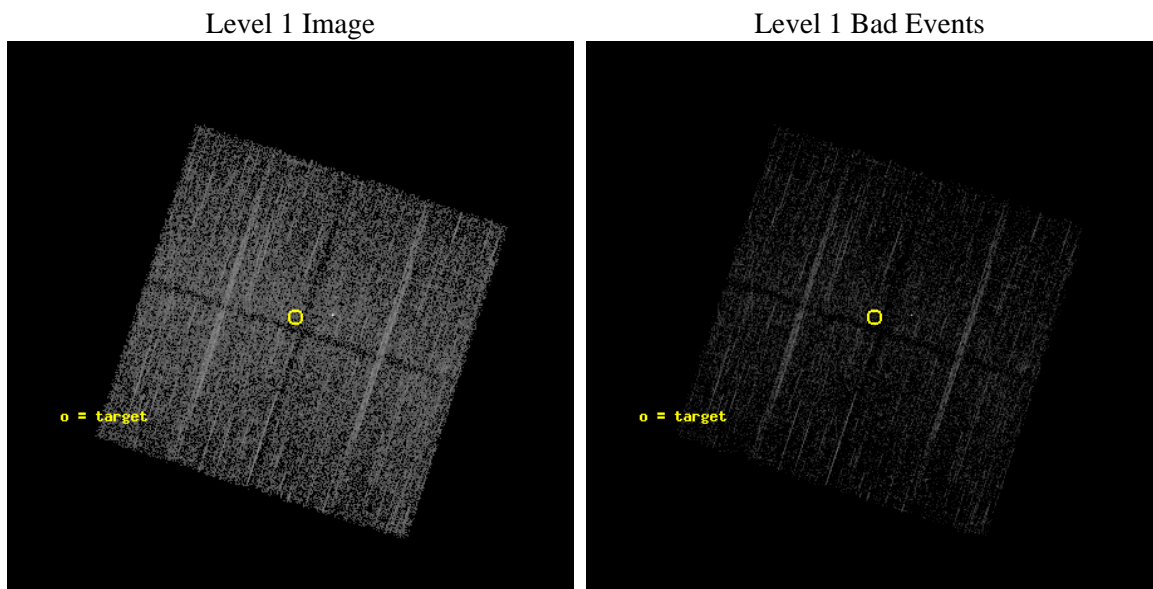
seq_num	901011	Sequence number
obs_id	14045	Observation id
title	BAT, Chandra, NuSTAR and The origin of the Cosmic X-ray Background	
observer	Dr. Marco Ajello	Principal investigator
object	J1354.4-3746	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	208.605	Observer's specified target RA [deg]
dec_targ	-37.778	Observer's specified target Dec [deg]
ra_nom	208.61107951746	Nominal RA [deg]
dec_nom	-37.784574691231	Nominal Dec [deg]
roll_nom	288.15550607952	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4792.3671063185	Sum of GTIs [s]
livetime	4729.7513019851	Livetime [s]
ontime0	4792.2439863086	Sum of GTIs [s]
ontime1	4792.2850263119	Sum of GTIs [s]
ontime2	4792.3260663152	Sum of GTIs [s]
ontime3	4792.3671063185	Sum of GTIs [s]
l2events	12466	Number of level 2 events



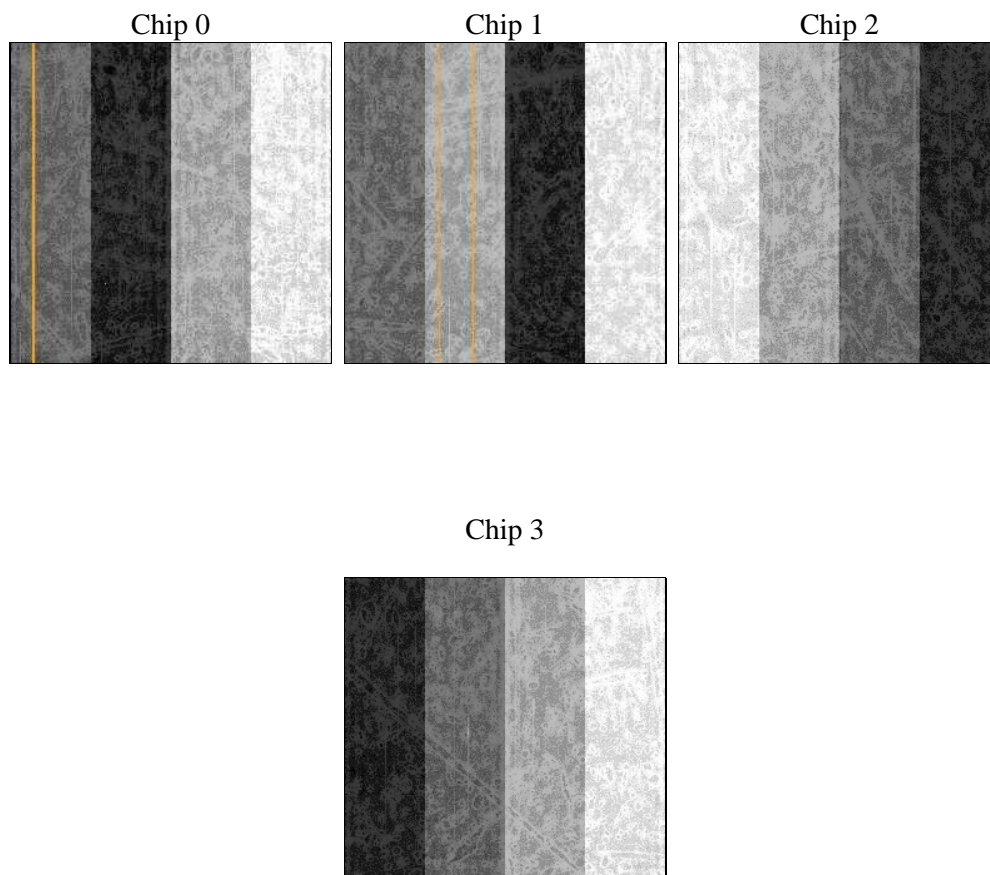
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4792.3671063185	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4792.2439863086	Sum of GTIs [s]
date	2012-05-27T16:03:46	Date and time of file creation	ontime1	4792.2850263119	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4792.3260663152	Sum of GTIs [s]
			ontime3	4792.3671063185	Sum of GTIs [s]
			l1events	118022	Number of level 1 events

2.1.4 Events

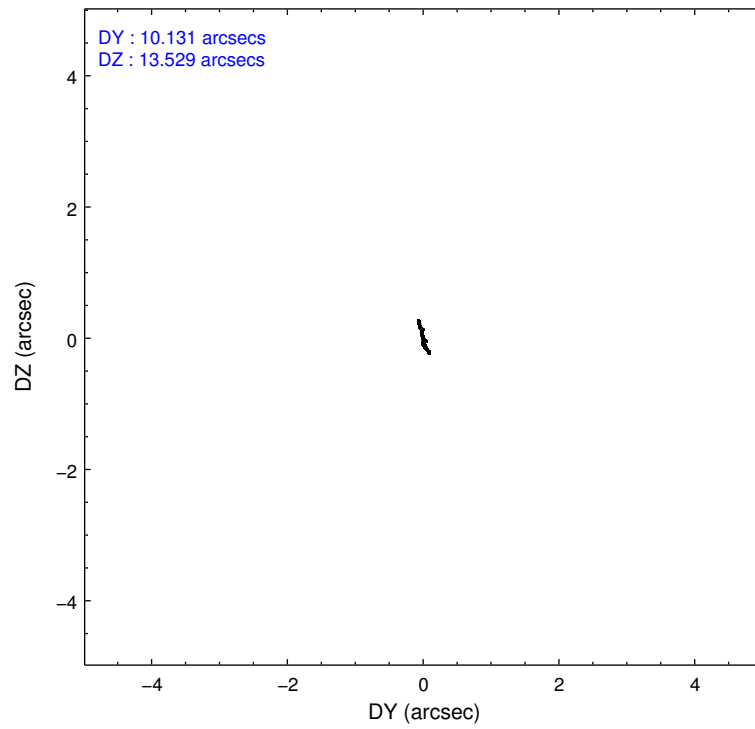
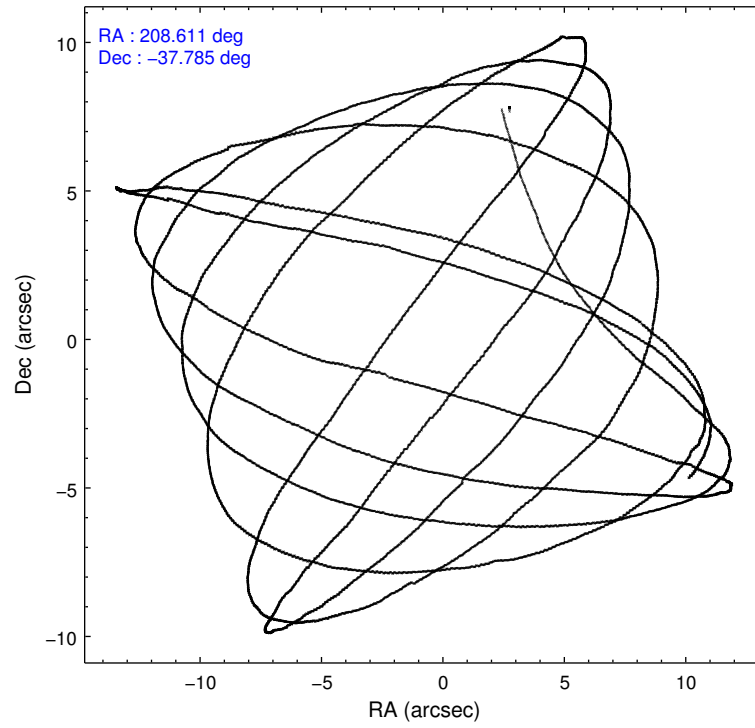
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	26338	29176	31972	30536
rejected events	22752	24421	28310	27293
rejected %	86%	83%	88%	89%

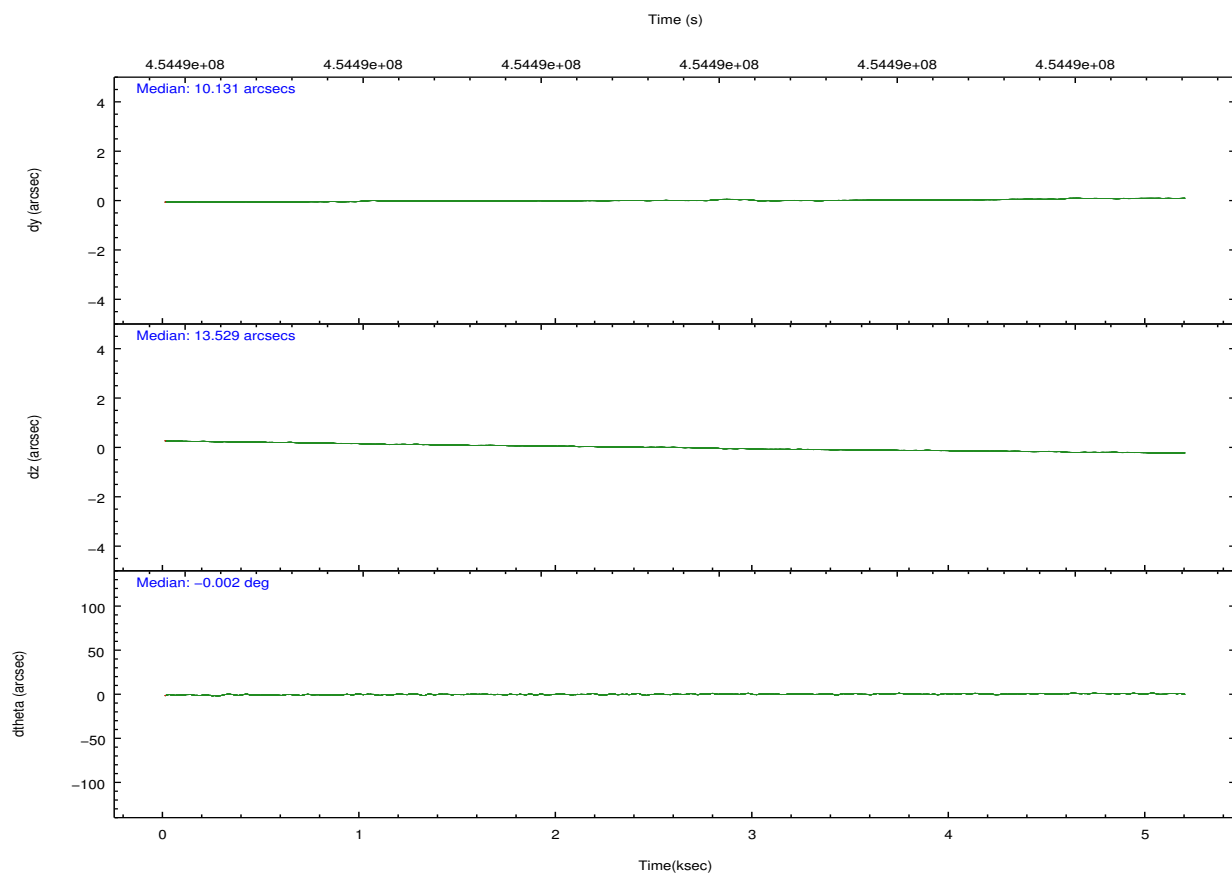
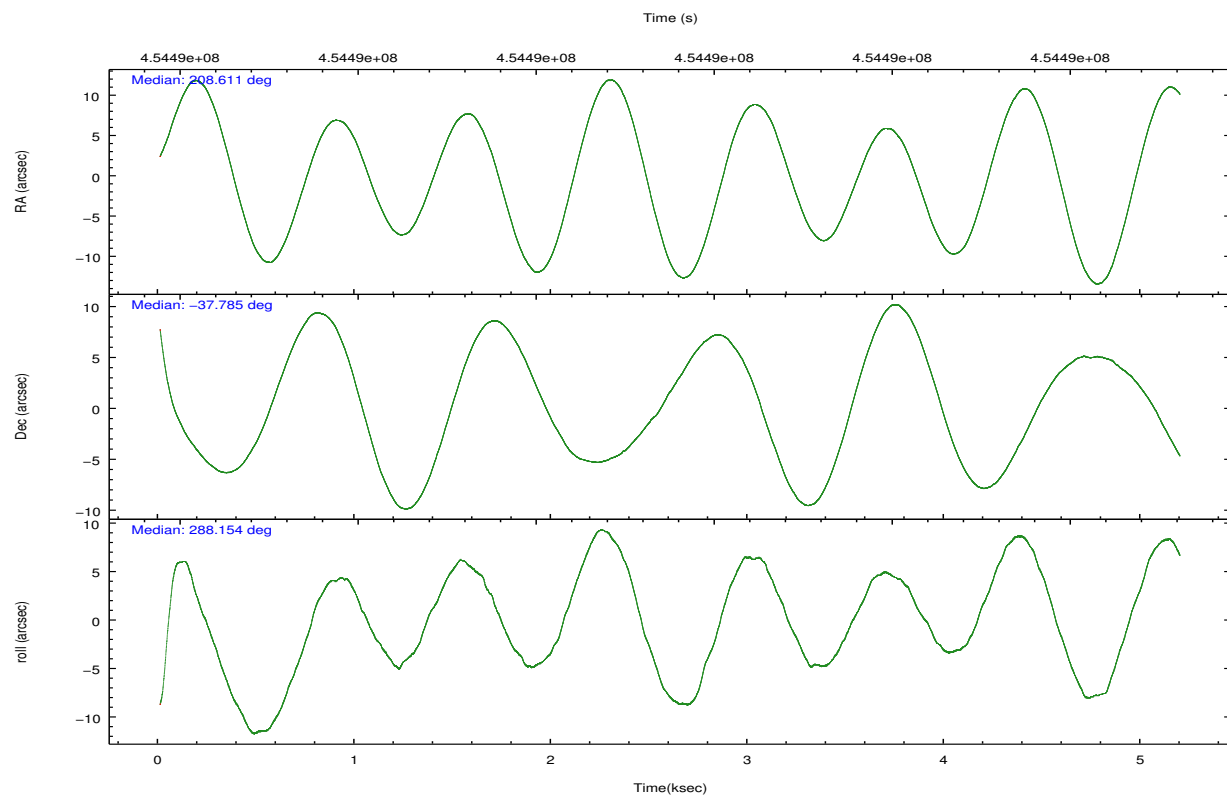
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1282	1974	1357	1222
	4%	6%	4%	4%
grade 1 events	15	56	19	20
	0%	0%	0%	0%
grade 2 events	926	1096	951	743
	3%	3%	2%	2%
grade 3 events	373	427	334	316
	1%	1%	1%	1%
grade 4 events	321	429	379	327
	1%	1%	1%	1%
grade 5 events	1260	1400	1218	1414
	4%	4%	3%	4%
grade 6 events	687	830	642	636
	2%	2%	2%	2%
grade 7 events	21474	22964	27072	25858
	81%	78%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	208.584917	208.6110795174581	Subarray requested	NONE	NONE
[deg] Pointing Dec	-37.766320	-37.78457469123076	Alternating exposures requested	N	N
[deg] Pointing Roll	287.930814	288.1555060795166	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	454486349.184000	454485457.40756			
Observation start date	2012-05-27T06:11:23	2012-05-27T05:57:37			
[s] Observation end time (MET)	454491349.184000	454492042.52041			
Observation end date	2012-05-27T07:34:43	2012-05-27T07:47:22			
Read mode	TIMED	TIMED			

2.3 Aspect



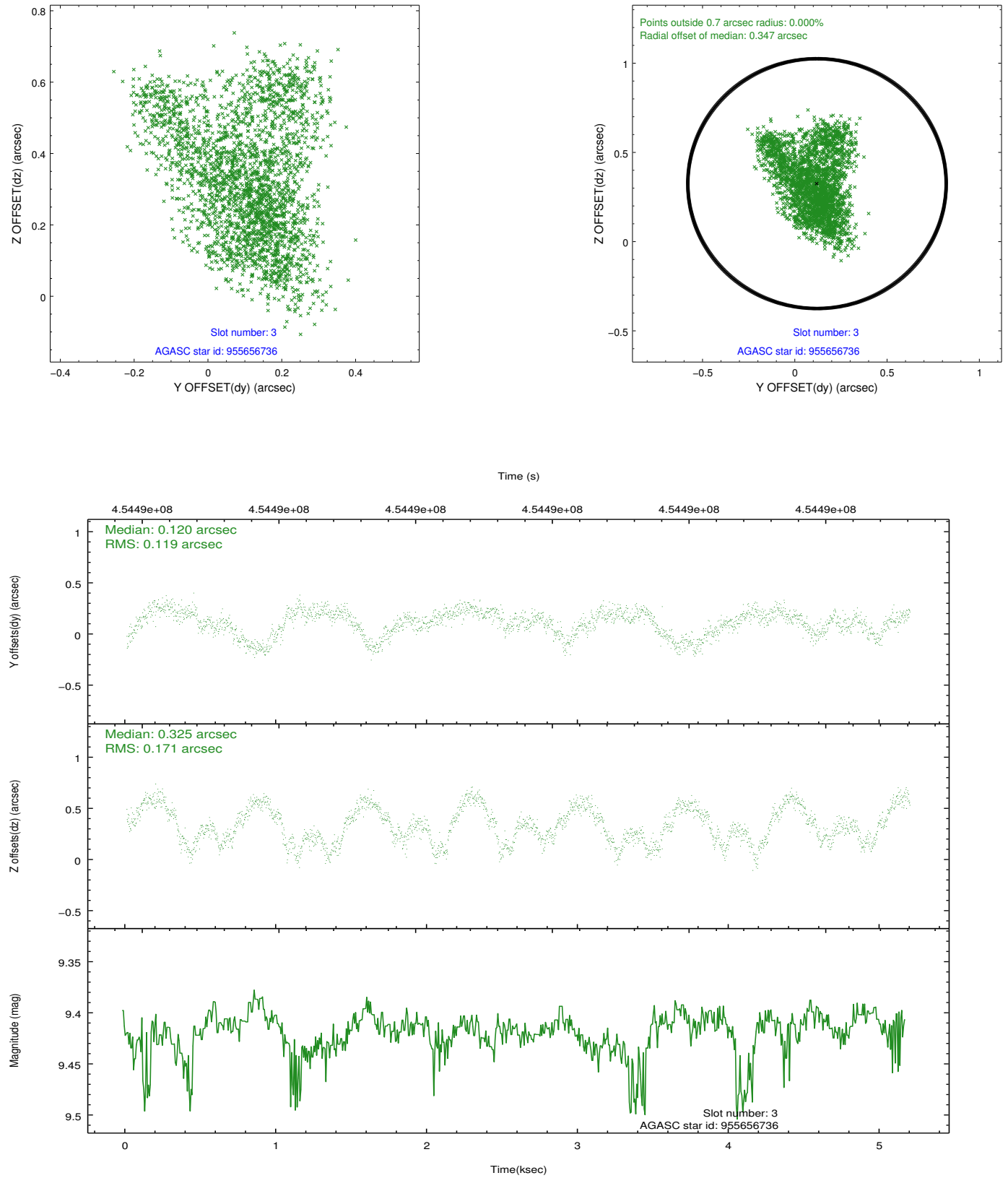


Slot Statistics

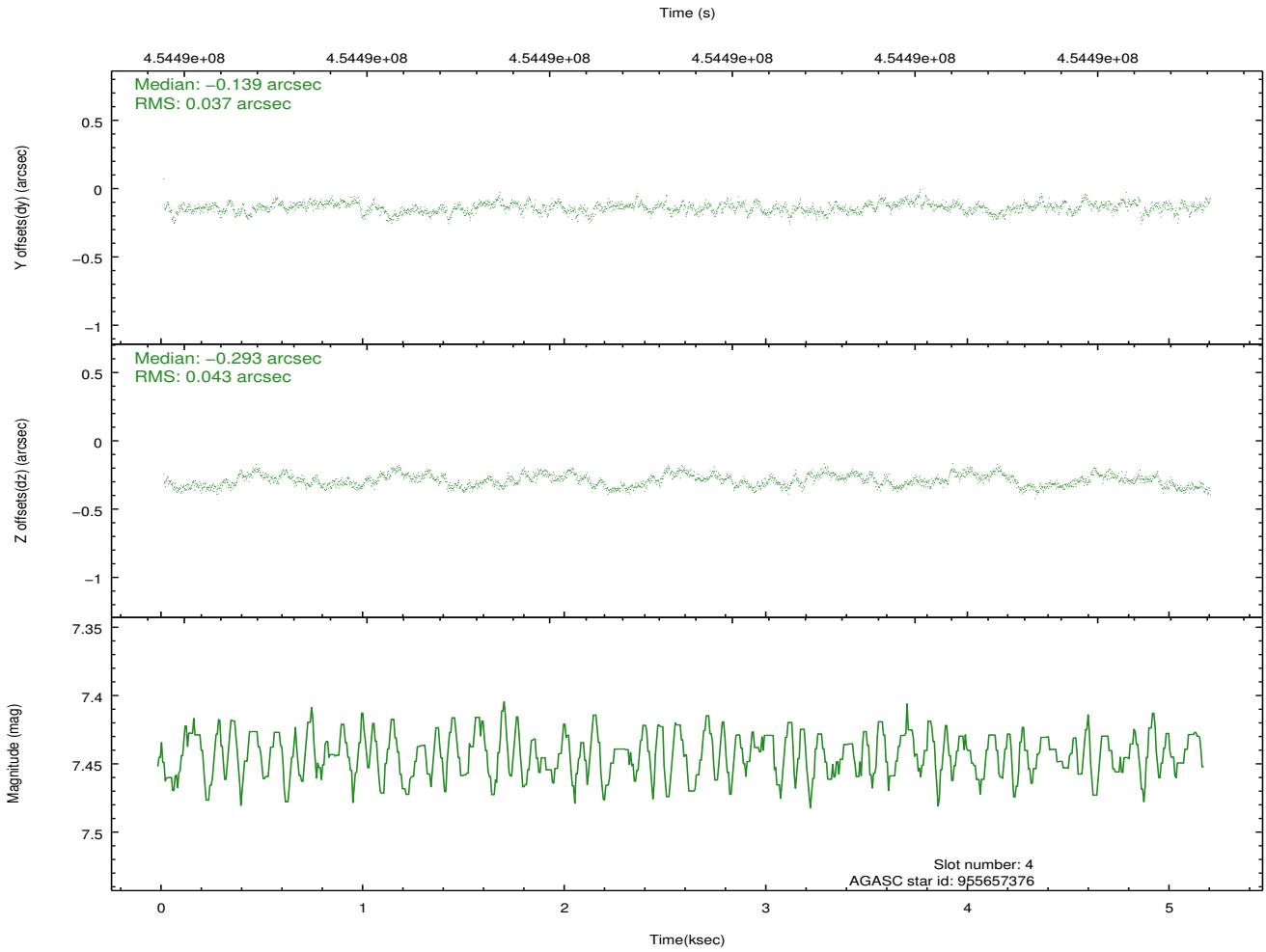
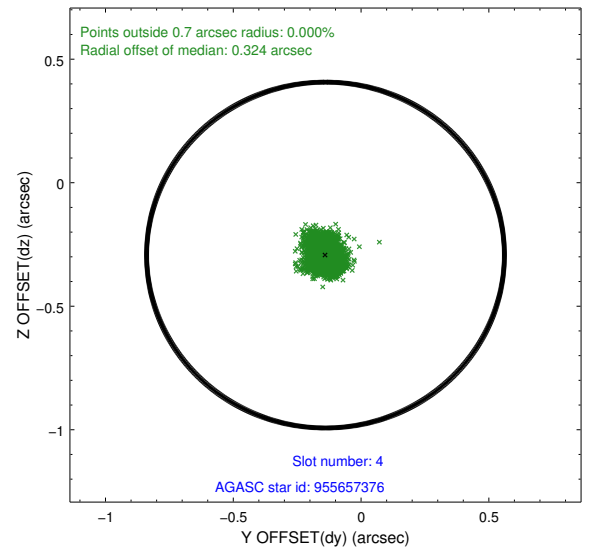
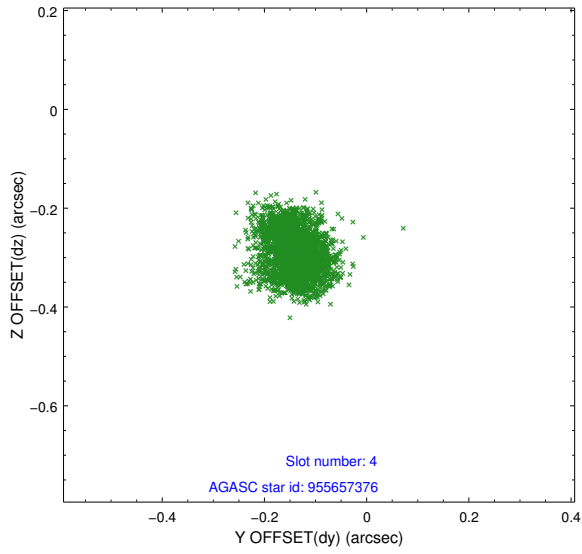
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	1267	0.065	0.002	0.007	0.012	0.000000	0.000000	929.53	-837.08
1	FID	ACIS-I-5	7.03	1267	-0.205	0.078	0.007	0.011	0.000000	0.000000	-1818.21	1059.89
2	FID	ACIS-I-6	7.04	1267	0.048	-0.010	0.007	0.011	0.000000	0.000000	393.78	1705.63
3	GUIDE	955656736	9.42	2527	0.120	0.325	0.231	0.349	208.333101	-37.470962	-1231.75	-357.39
4	GUIDE	955657376	7.44	2532	-0.139	-0.293	0.061	0.094	207.860028	-37.392348	-1911.84	-1561.31
5	GUIDE	1021051144	8.71	2533	-0.035	0.020	0.079	0.131	208.738704	-38.264172	1838.97	-139.04
6	GUIDE	1021052304	8.10	2533	0.074	-0.052	0.100	0.146	208.348776	-38.306246	1645.87	-1234.42
7	GUIDE	1021060312	8.73	2531	-0.013	-0.004	0.088	0.138	207.978184	-37.755334	-563.06	-1633.37

2.4 Star Slots

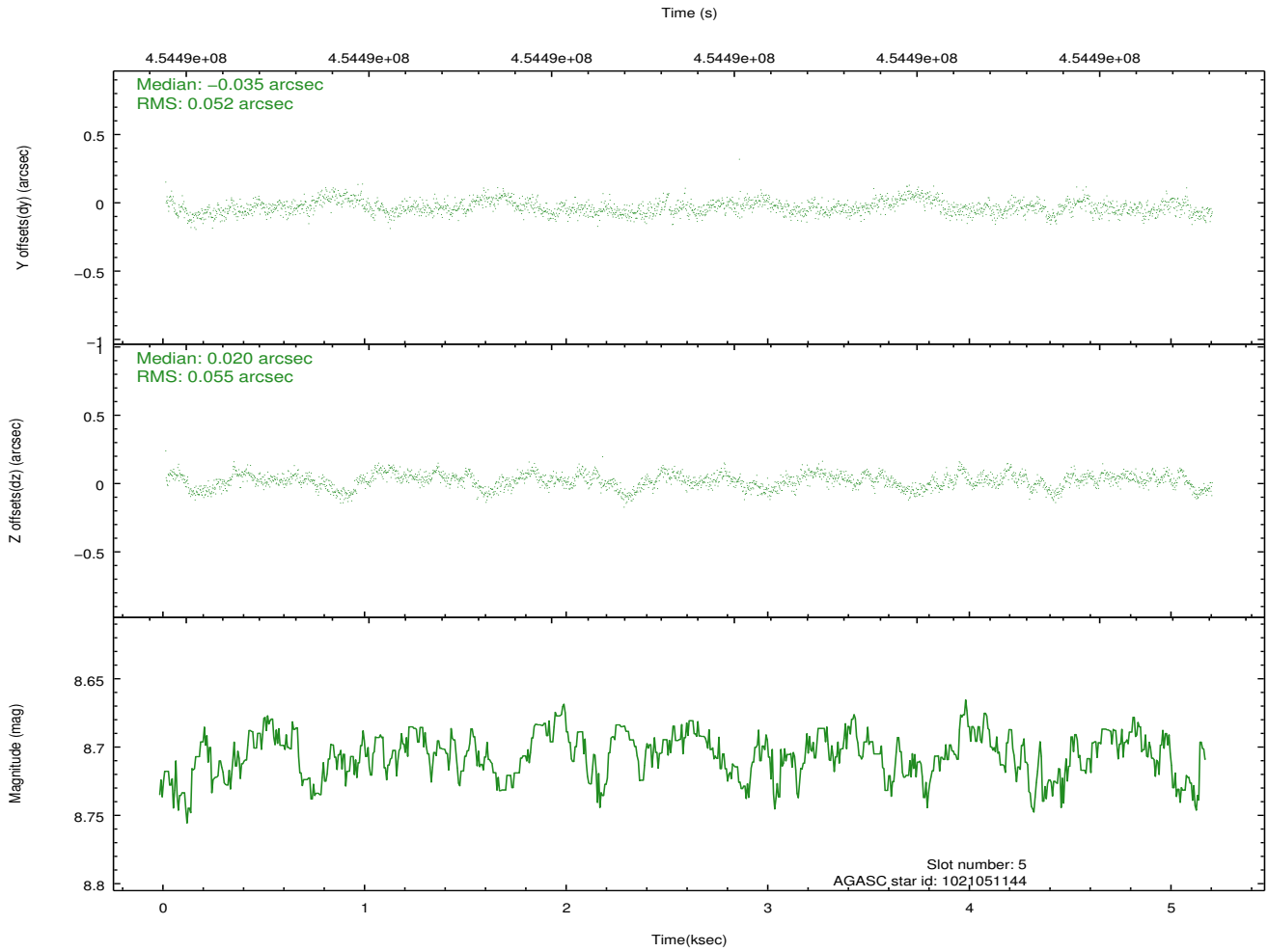
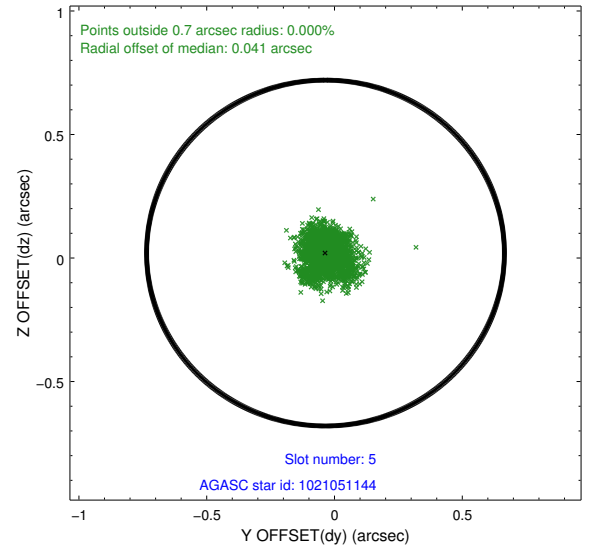
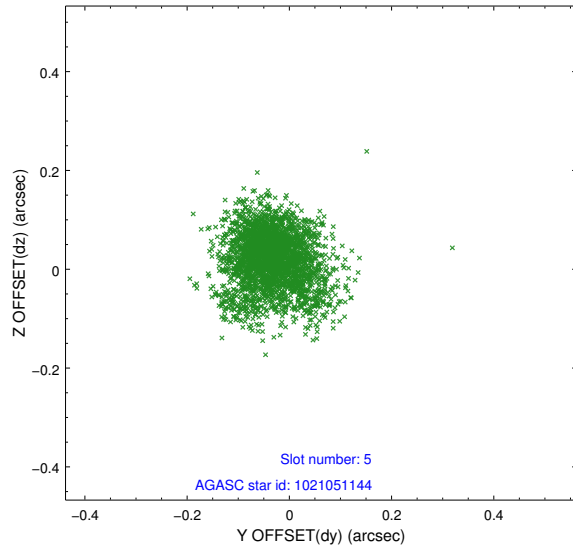
2.4.1 Slot 3



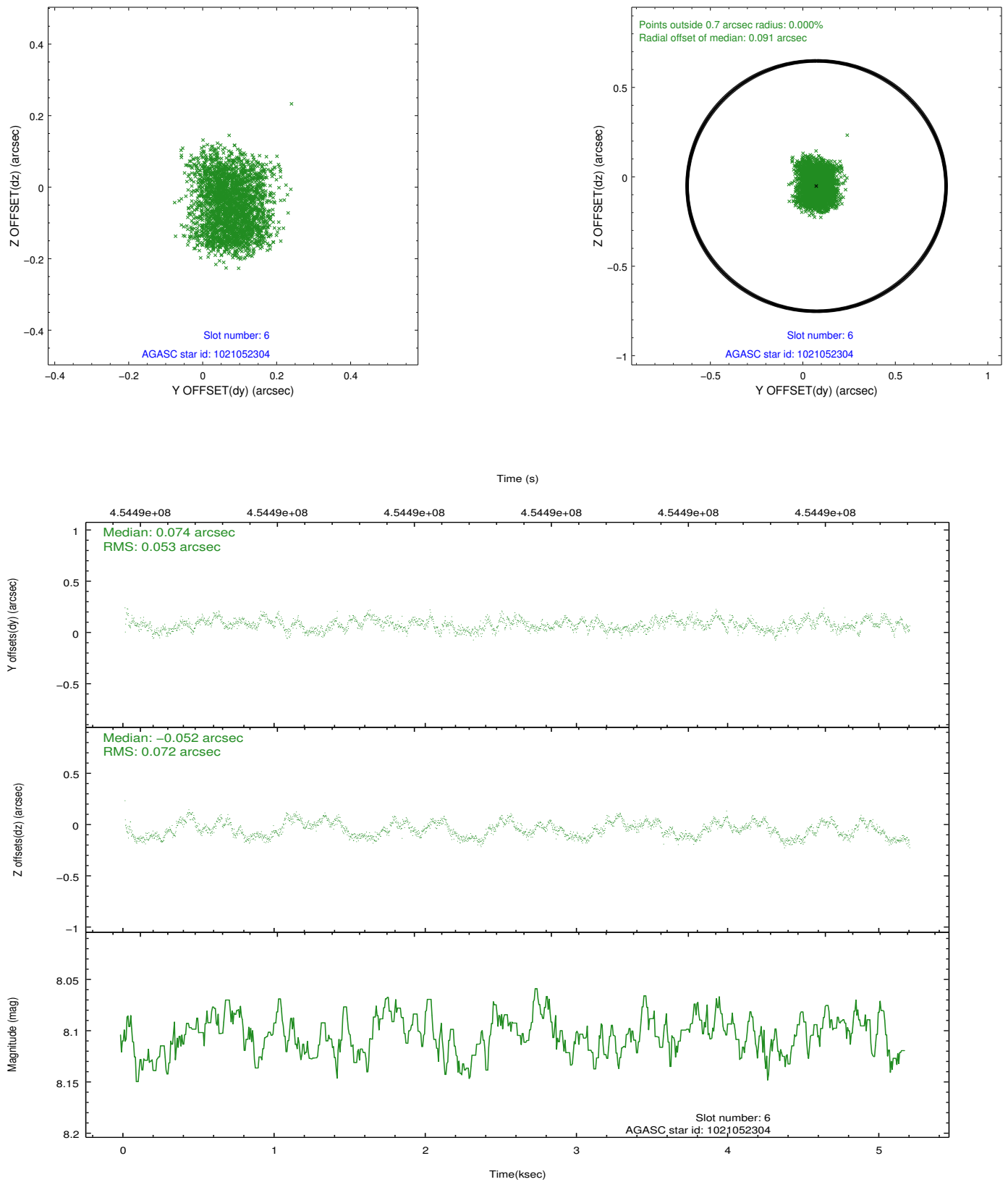
2.4.2 Slot 4



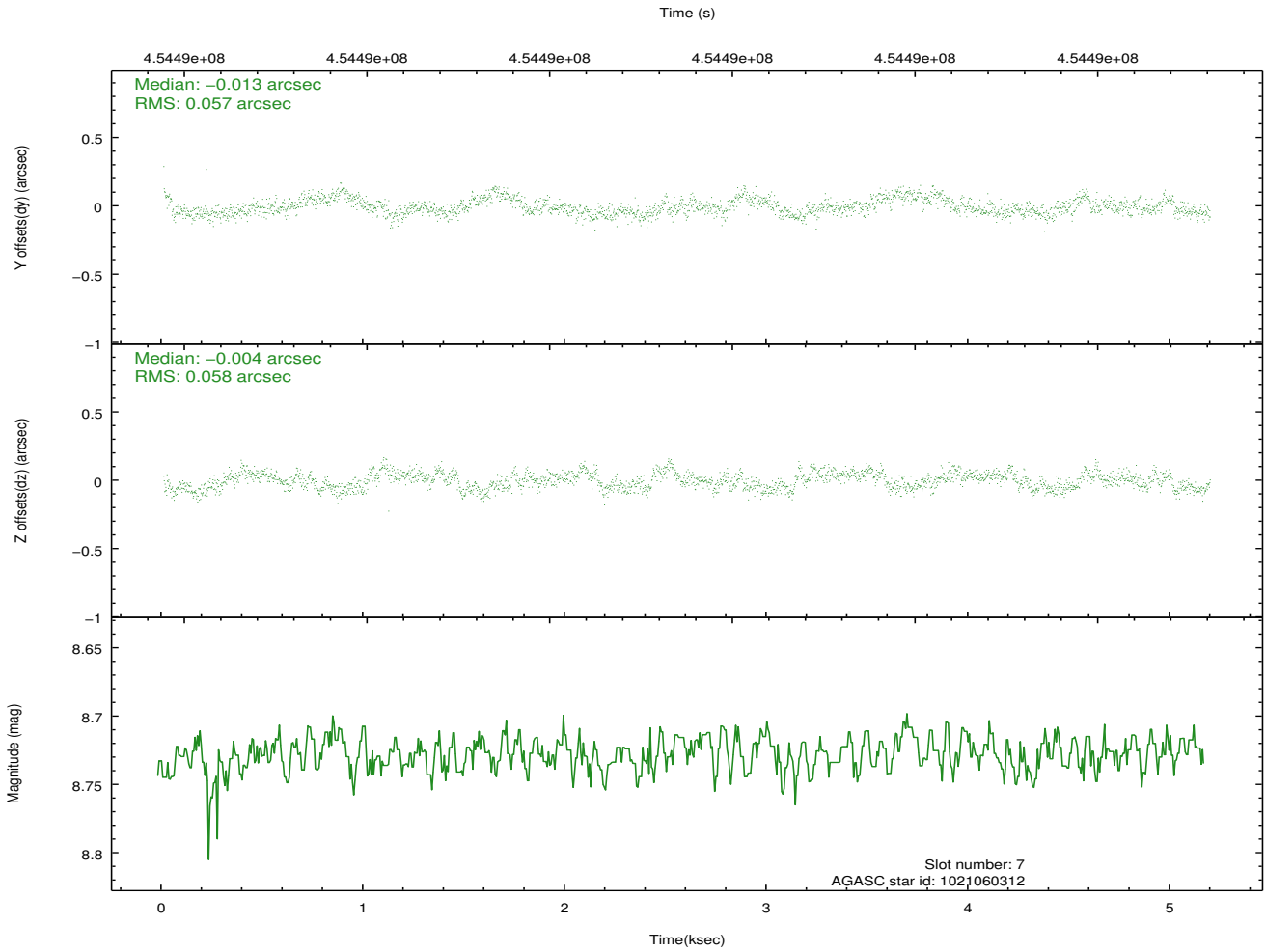
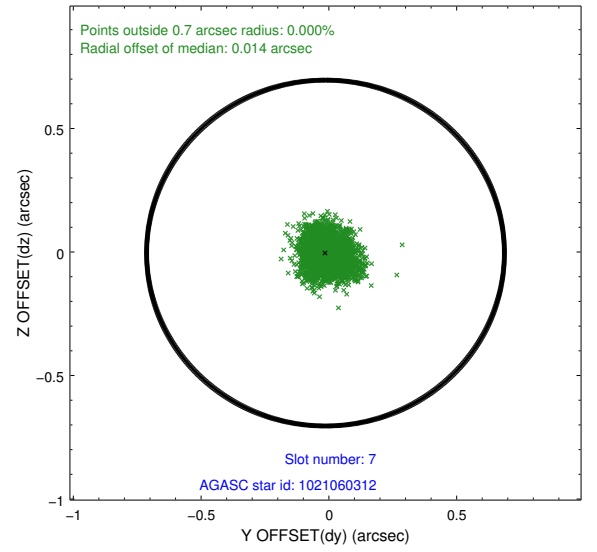
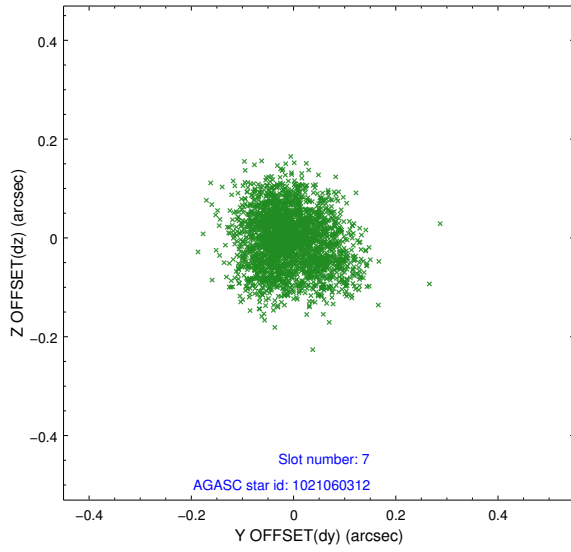
2.4.3 Slot 5



2.4.4 Slot 6

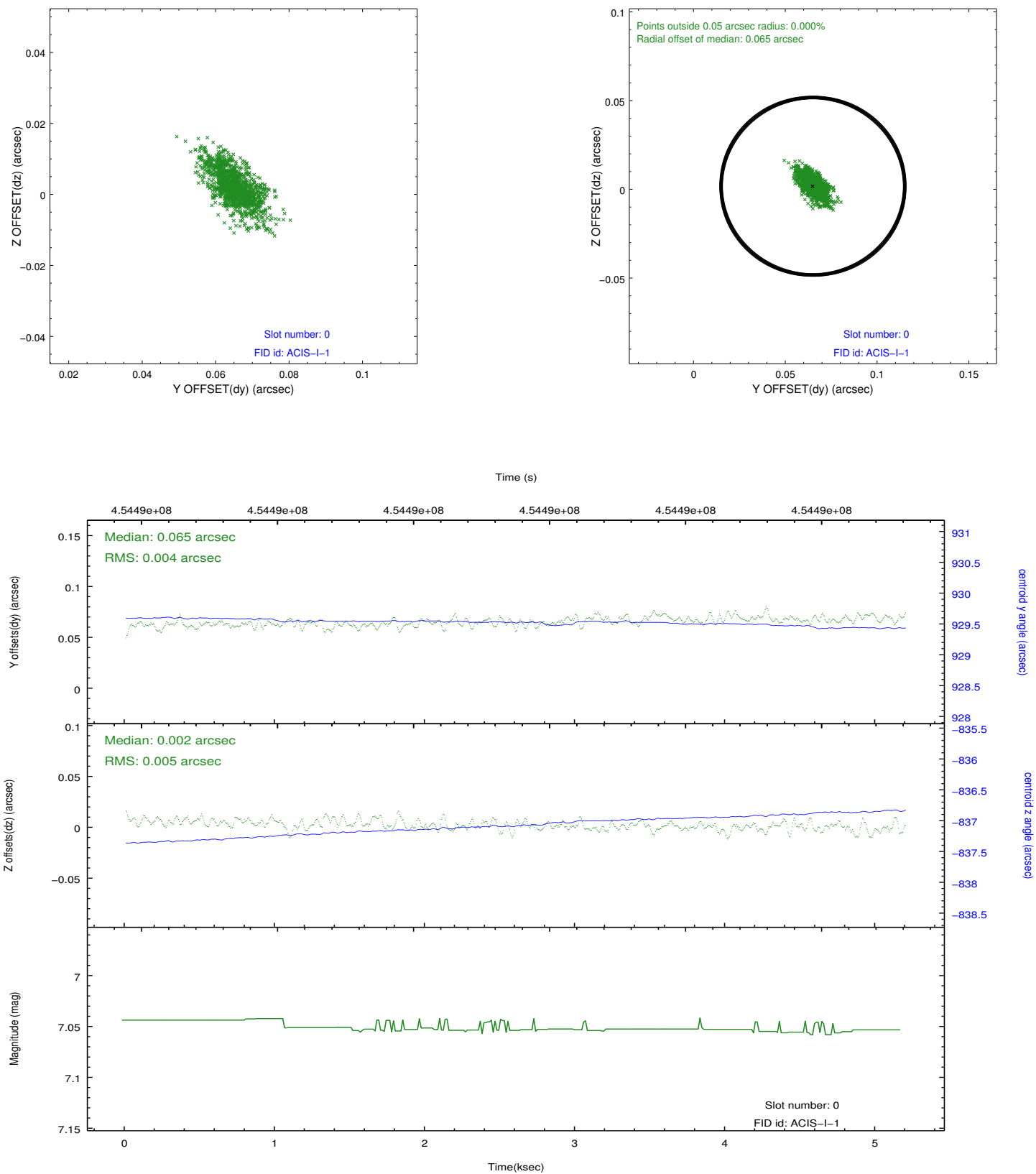


2.4.5 Slot 7

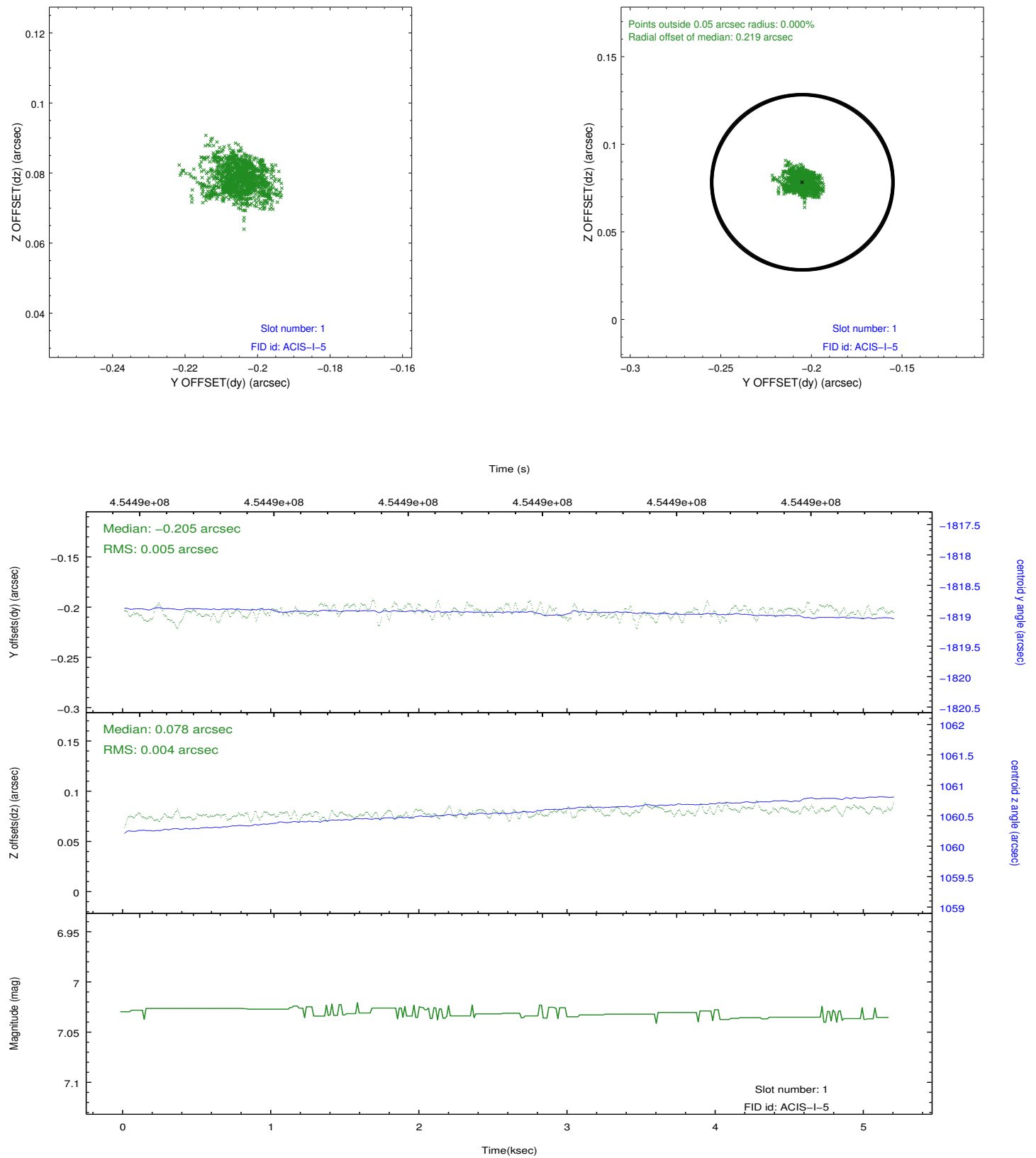


2.5 FID Slots

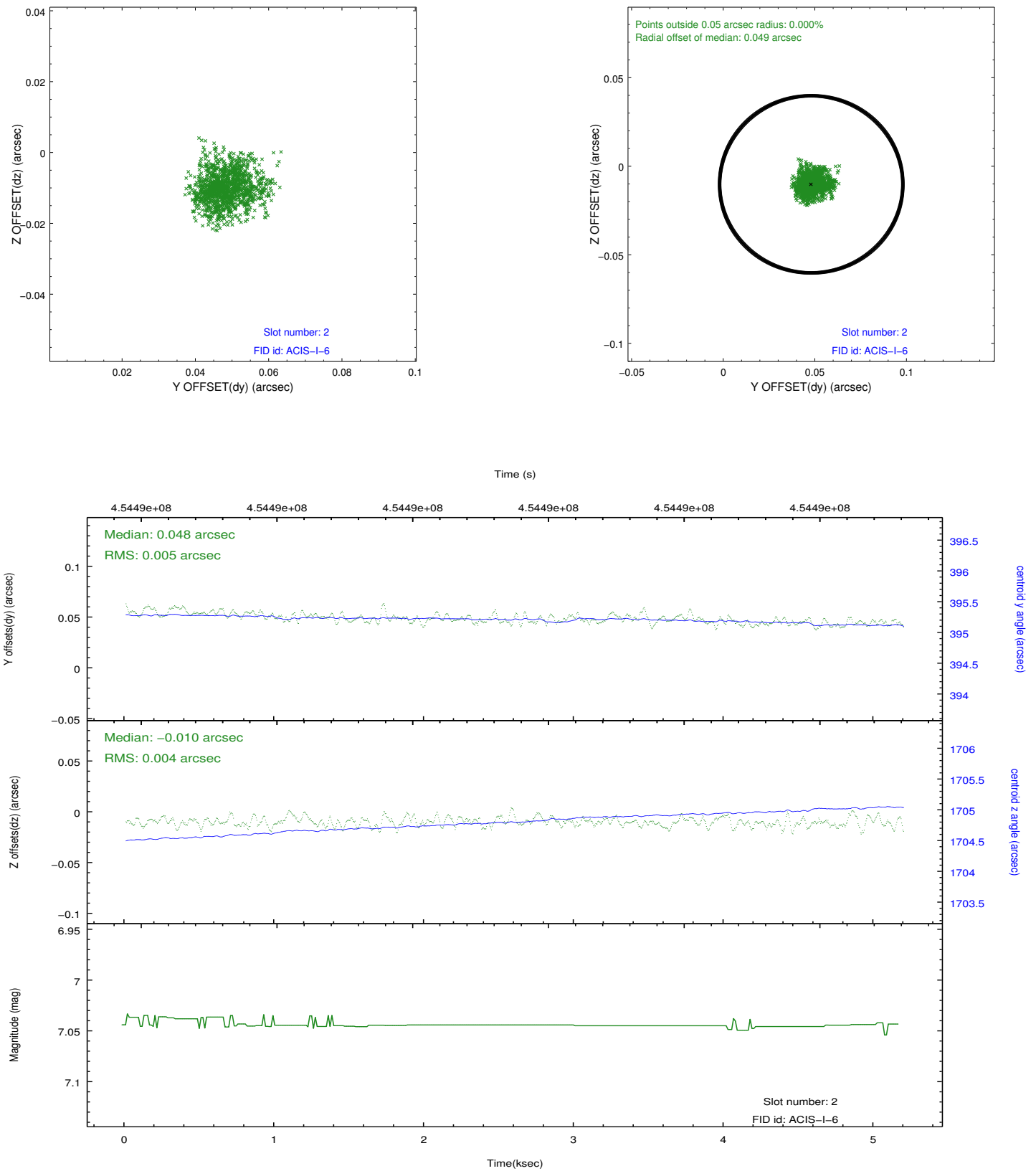
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7923671063185

A.2 Comments