

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5814 - L2 Version 5
Chandra X-Ray Center

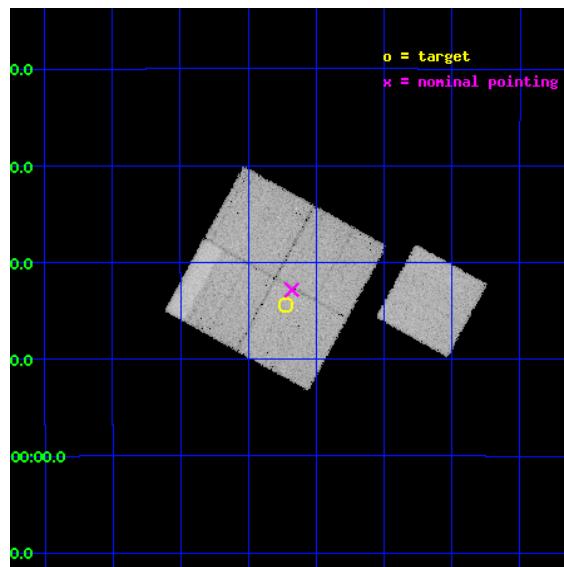
L2 Processing Date : Feb 13 2013

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1 Front

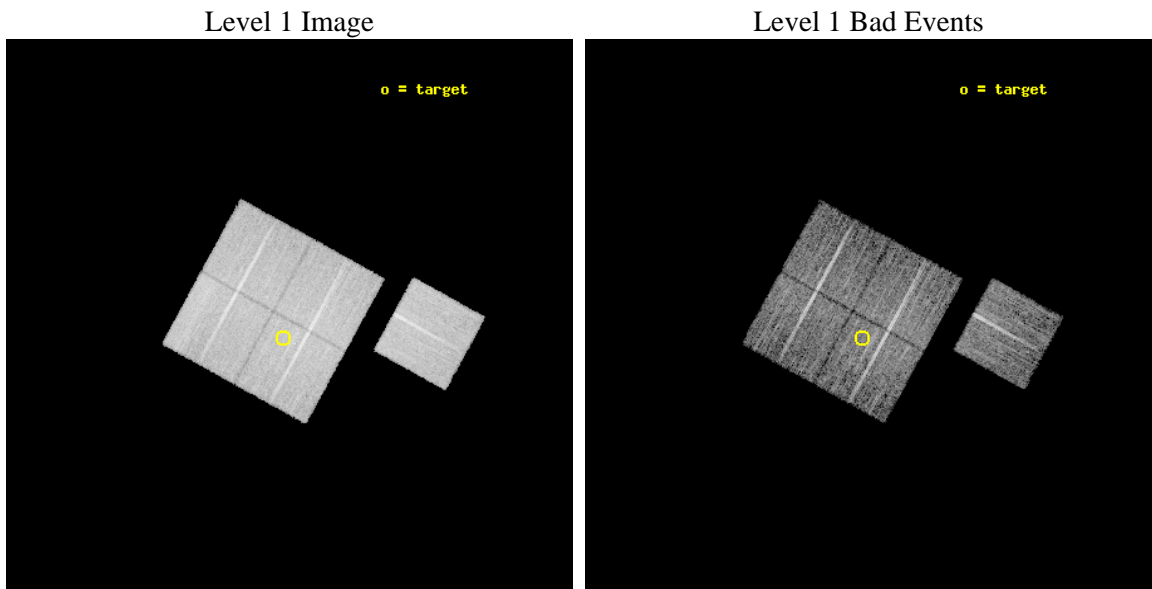
seq_num	800527	Sequence number
obs_id	5814	Observation id
title	MACS: The most massive galaxy clusters at $z>0.3$	Proposal title
observer	Dr. Harald Ebeling	Principal investigator
object	MACSJ2219.1-1844	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	334.806833	Observer's specified target RA [deg]
dec_targ	-18.739	Observer's specified target Dec [deg]
ra_nom	334.79456896448	Nominal RA [deg]
dec_nom	-18.714038202822	Nominal Dec [deg]
roll_nom	118.75446429148	Nominal Roll [deg]
revision	5	Processing version of data
ontime	8542.8133737445	Sum of GTIs [s]
livetime	8431.1952278888	Livetime [s]
ontime0	8542.6902537346	Sum of GTIs [s]
ontime1	8545.8722539842	Sum of GTIs [s]
ontime2	8542.7723038197	Sum of GTIs [s]
ontime3	8542.8133737445	Sum of GTIs [s]
ontime6	8542.6491838396	Sum of GTIs [s]
l2events	154084	Number of level 2 events



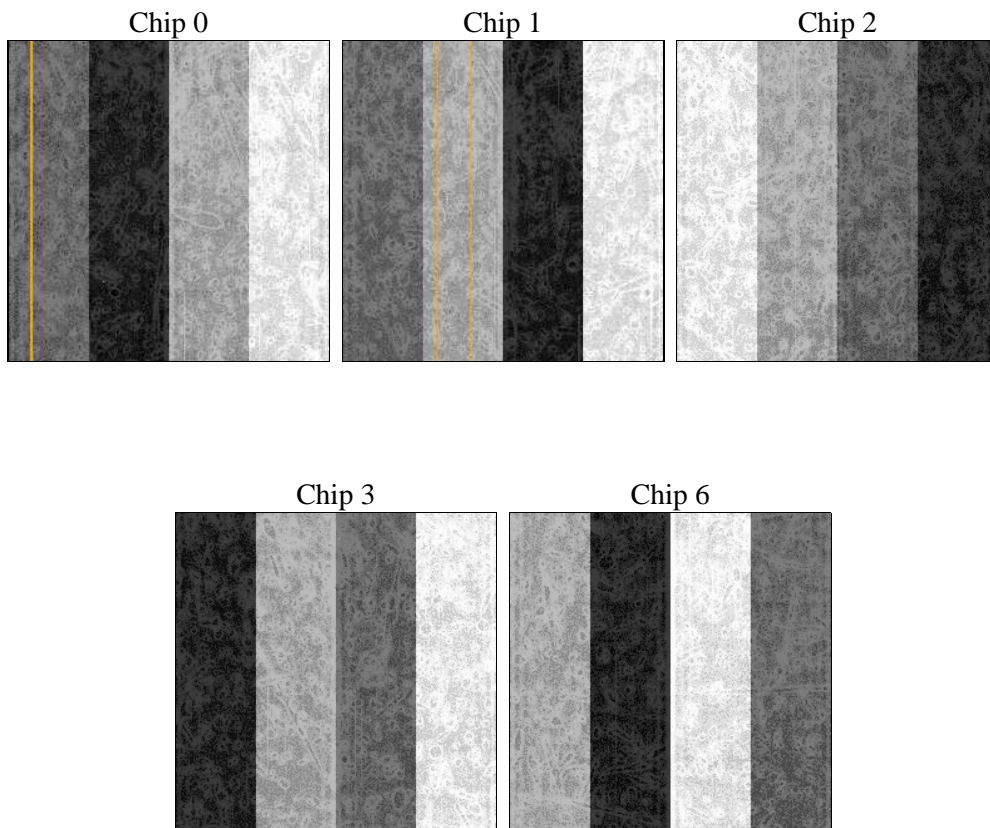
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10900.345000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8542.8133737445	Sum of GTIs [s]
caldbver	4.5.5	 	ontime0	8542.6902537346	Sum of GTIs [s]
date	2013-02-13T03:32:26	Date and time of file creation	ontime1	8545.8722539842	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	8542.7723038197	Sum of GTIs [s]
			ontime3	8542.8133737445	Sum of GTIs [s]
			ontime6	8542.6491838396	Sum of GTIs [s]
			l1events	423480	Number of level 1 events

2.1.4 Events

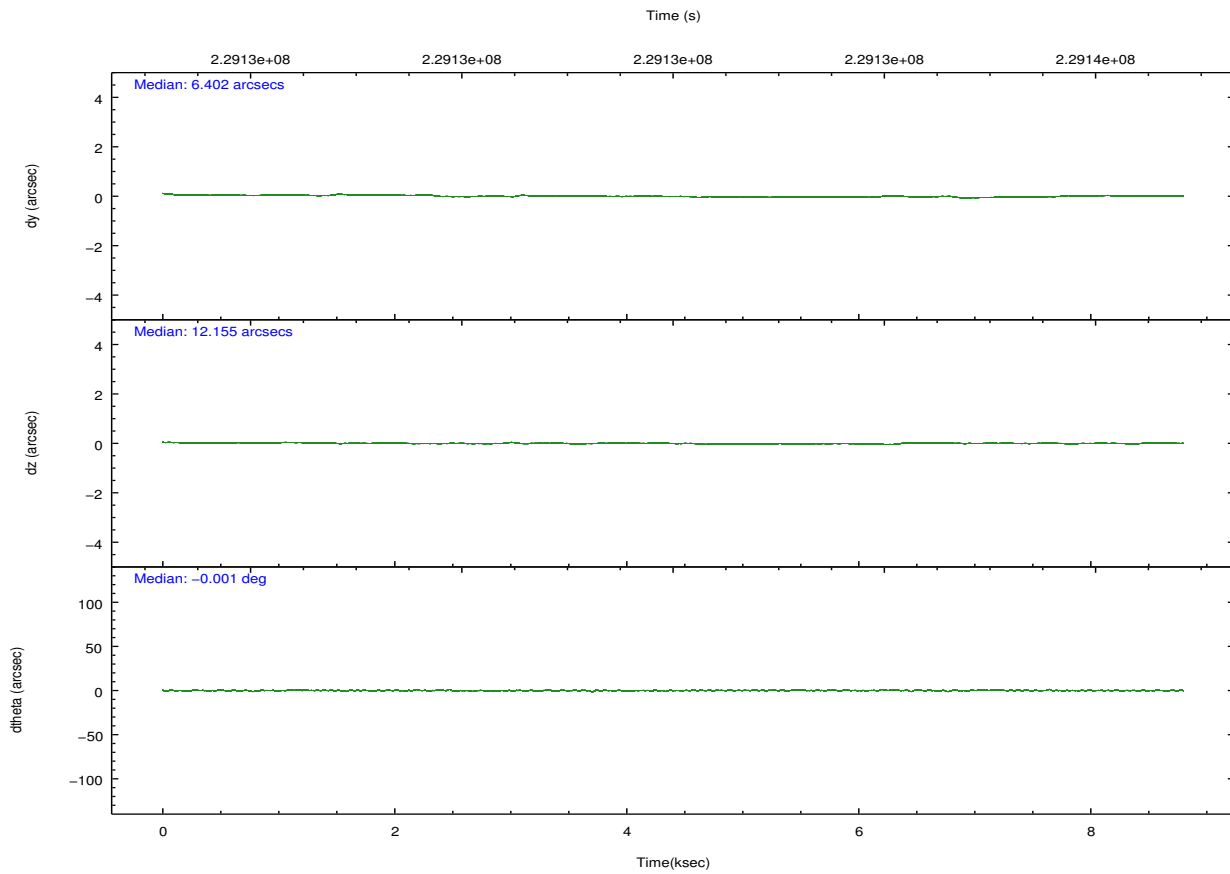
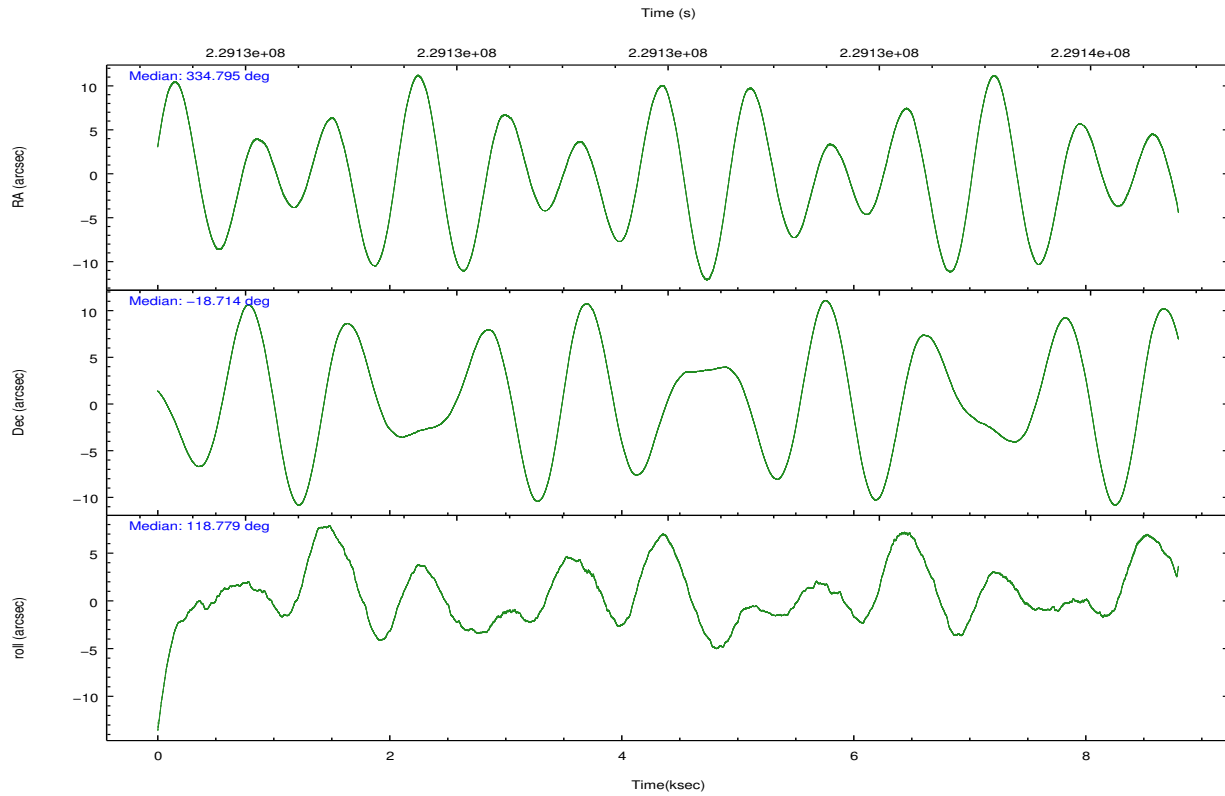
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	79147	88374	85846	84010	86103
rejected events	47737	49693	55585	52776	51559
rejected %	60%	56%	64%	62%	59%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	17535	23080	17268	18000	19558
	22%	26%	20%	21%	22%
grade 1 events	98	134	127	121	118
	0%	0%	0%	0%	0%
grade 2 events	5010	6374	4624	4700	5074
	6%	7%	5%	5%	5%
grade 3 events	2061	2112	1948	1965	1992
	2%	2%	2%	2%	2%
grade 4 events	1934	2090	1970	2007	2090
	2%	2%	2%	2%	2%
grade 5 events	1991	2170	2022	2254	2360
	2%	2%	2%	2%	2%
grade 6 events	5052	5246	4626	4753	6014
	6%	5%	5%	5%	6%
grade 7 events	45466	47168	53261	50210	48897
	57%	53%	62%	59%	56%

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	OVERRIDE	OVERRIDE
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	334.819344	334.7945689644799	Subarray requested	NONE	NONE
[deg] Pointing Dec	-18.727989	-18.71403820282194	Alternating exposures requested	N	N
[deg] Pointing Roll	118.585928	118.7544642914808	[s] Primary exposure time	3.1	3.1
[mm] SIM focus pos	-0.7809083437167272	-0.7809083437167272			
[mm] SIM defocus	0.001439854621705816	0.001439854621705816			
[mm] SIM translation stage pos	-229.4438428438578	-229.4438428438578			
[mm] SIM translation stage offset	-4.148620247574001	-4.148620247574001			
[s] Observation start time (MET)	229127598.184000	229127598.184			
Observation start date	2005-04-05T22:32:14	2005-04-05T22:33:18			
[s] Observation end time (MET)	229136401.000000	229136401			
Observation end date	2005-04-06T01:00:01	2005-04-06T01:00:00			
Read mode	TIMED	TIMED			

2.3 Aspect

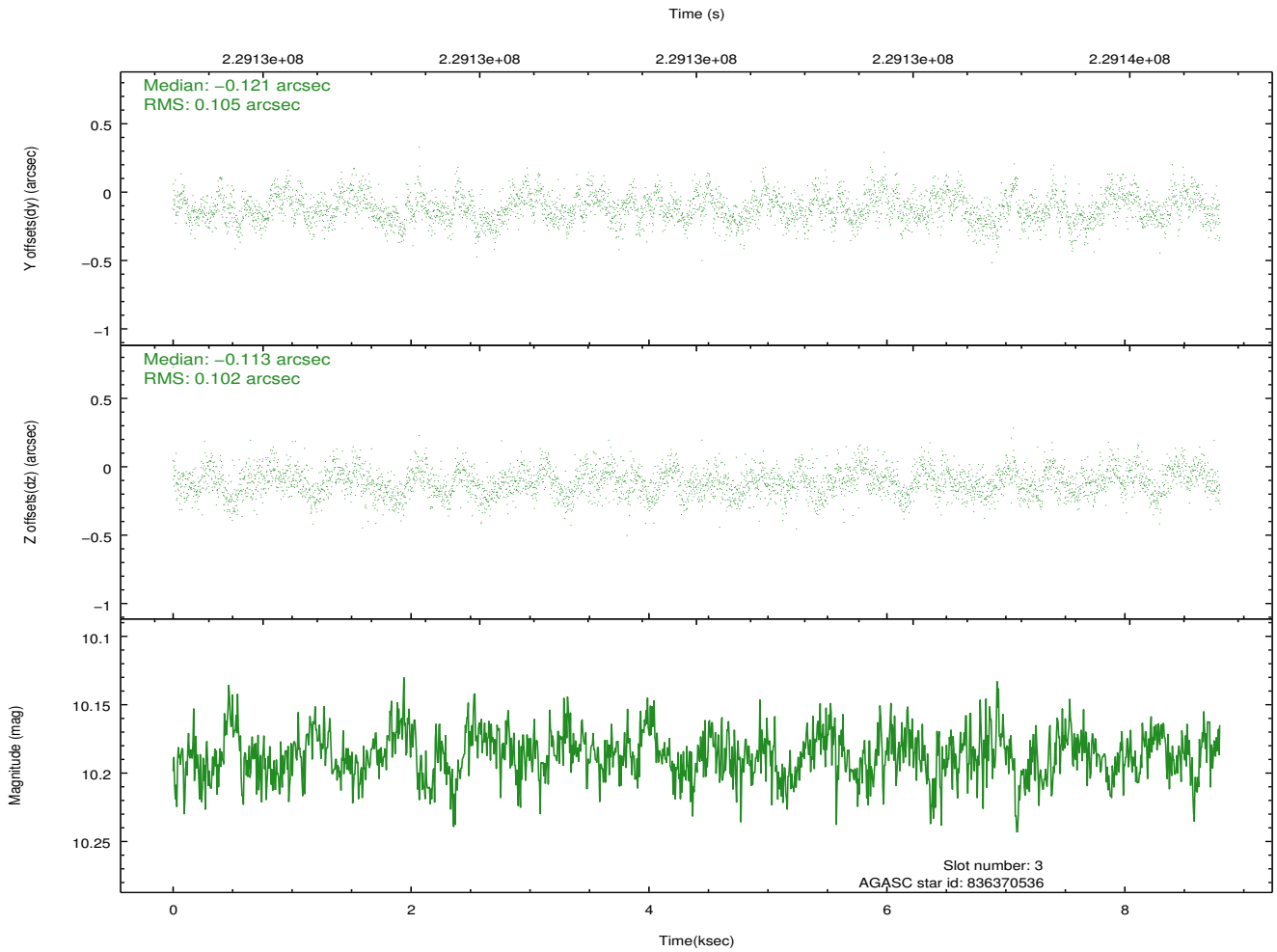
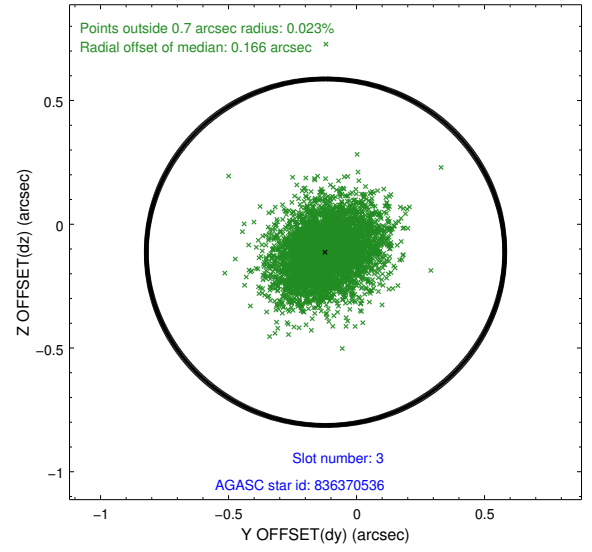
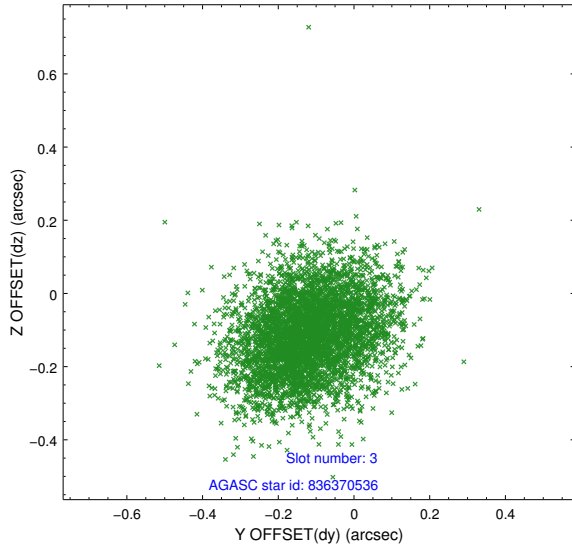


Slot Statistics

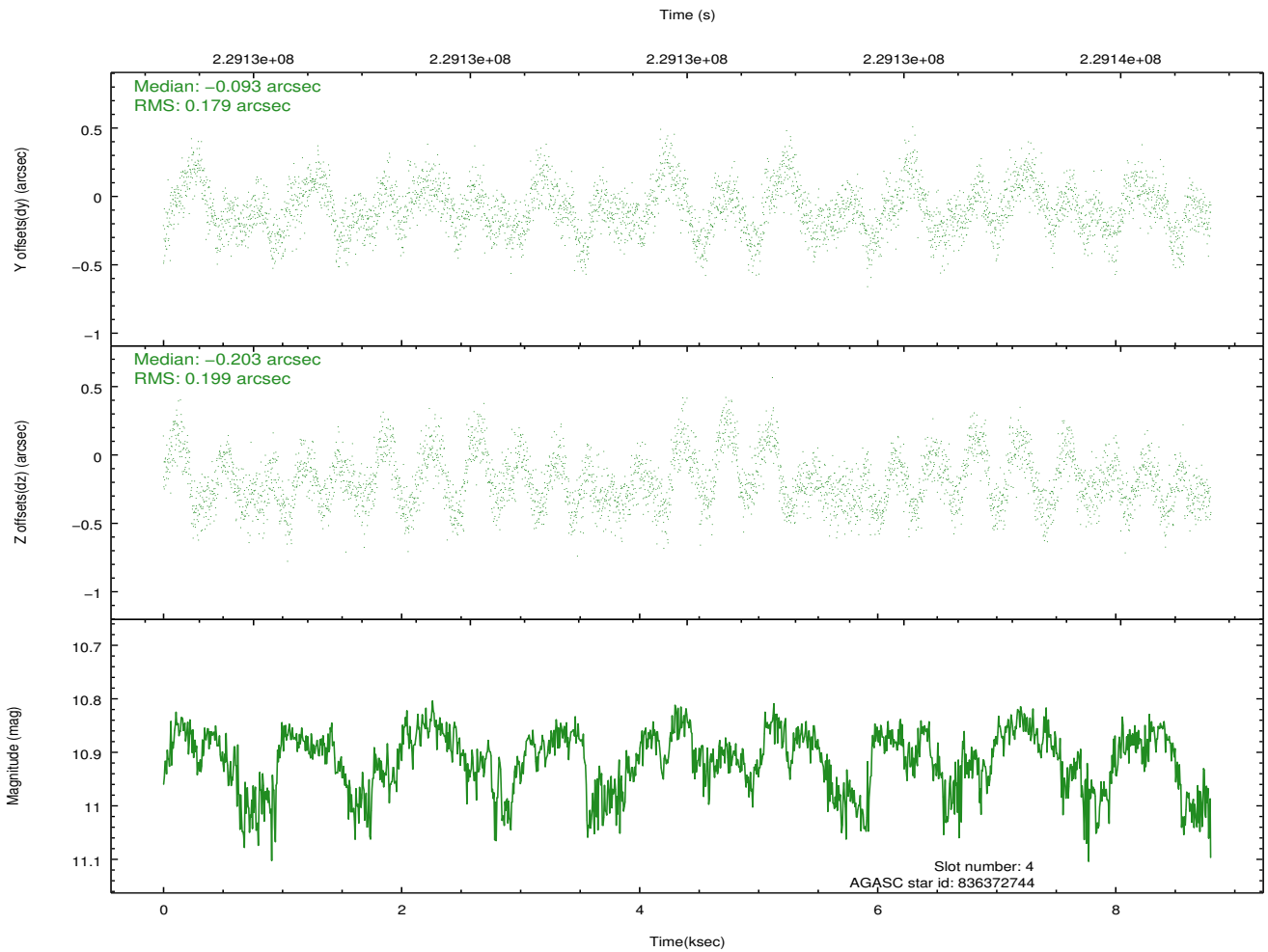
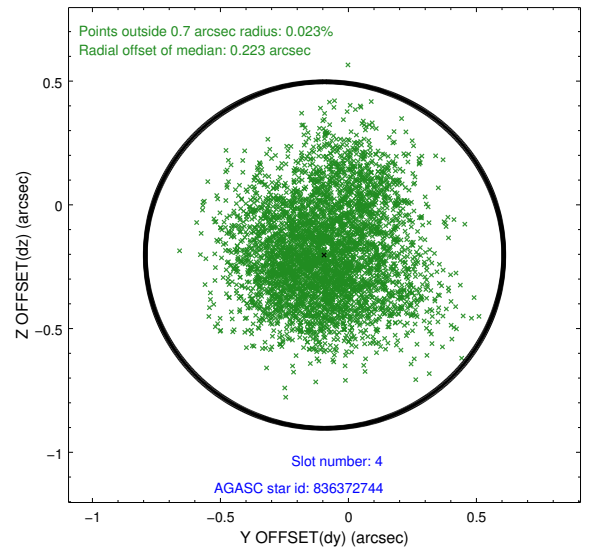
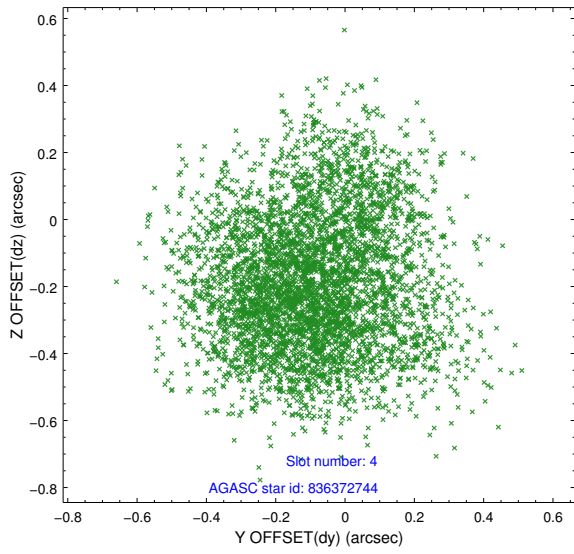
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	2147	0.069	-0.000	0.006	0.010	0.000000	0.000000	933.27	-920.82
1	FID	ACIS-I-5	7.22	2147	-0.193	0.085	0.006	0.010	0.000000	0.000000	-1814.72	976.45
2	FID	ACIS-I-6	7.25	2147	0.033	-0.015	0.006	0.010	0.000000	0.000000	398.14	1621.53
3	GUIDE	836370536	10.19	4283	-0.121	-0.113	0.156	0.251	333.932921	-18.493199	2183.66	2257.32
4	GUIDE	836372744	10.91	4286	-0.093	-0.203	0.290	0.452	334.489408	-18.590277	973.74	752.82
5	GUIDE	836372896	9.78	4291	0.224	-0.160	0.159	0.239	334.569486	-19.201028	-1089.05	1561.61
6	GUIDE	836381144	9.80	4287	-0.043	0.232	0.209	0.302	334.947885	-18.243865	1320.18	-1218.51
7	GUIDE	836382088	7.81	4292	0.029	0.240	0.082	0.126	335.350410	-18.505750	-166.41	-1973.30

2.4 Star Slots

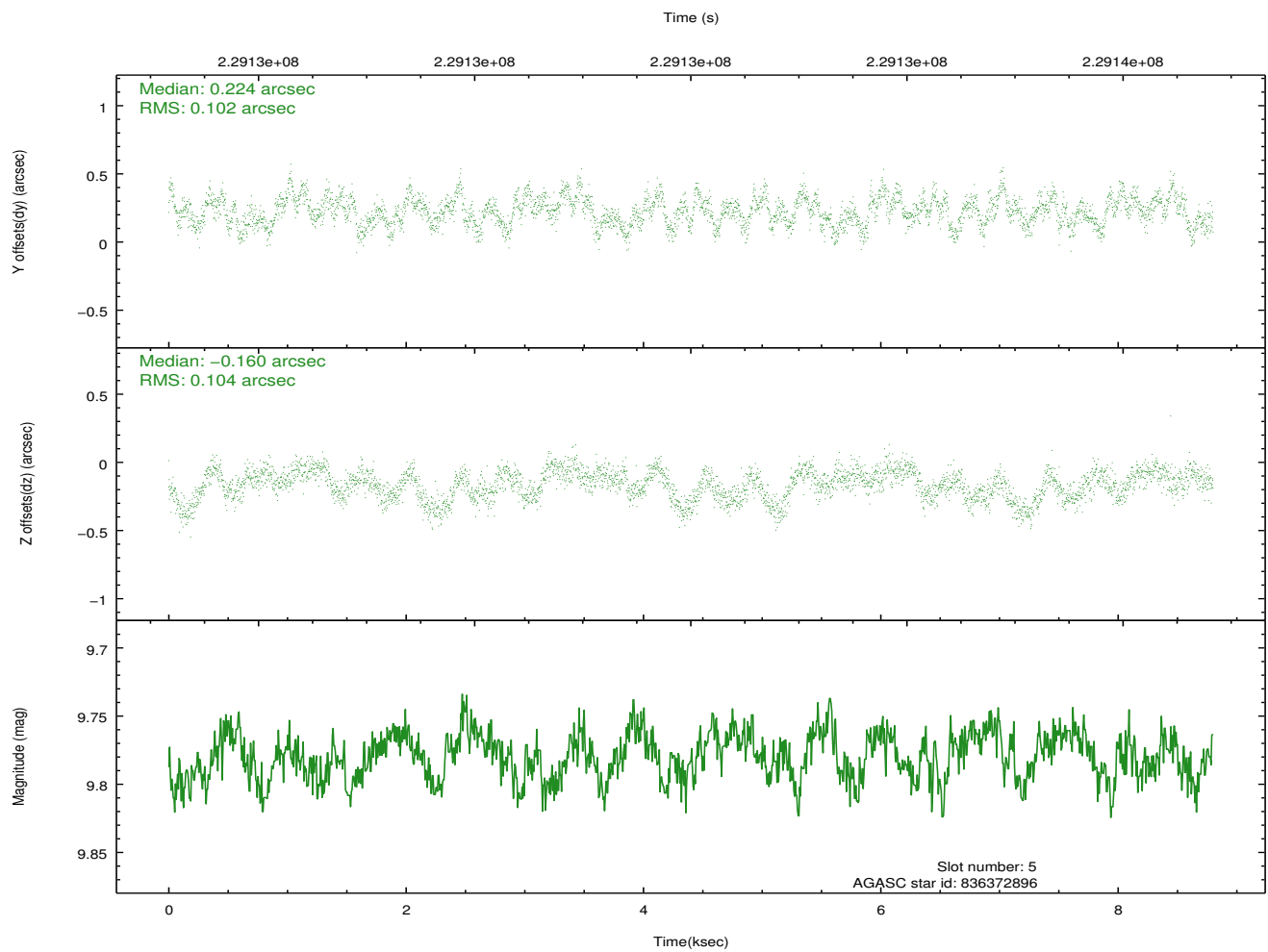
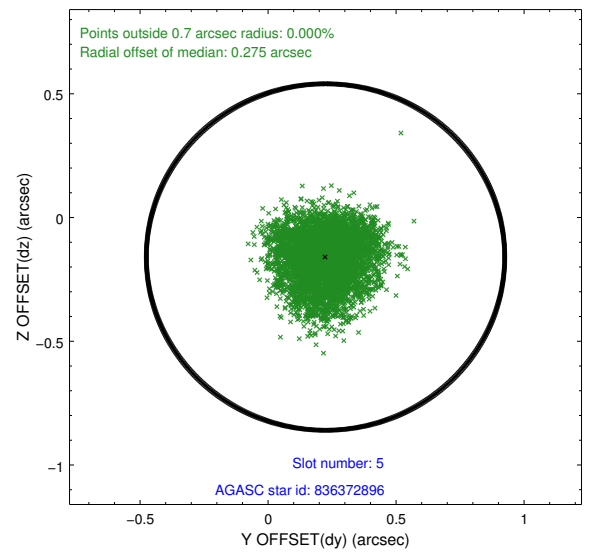
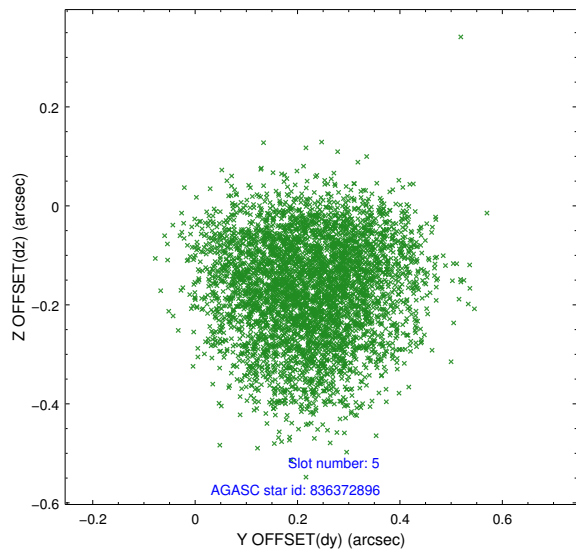
2.4.1 Slot 3



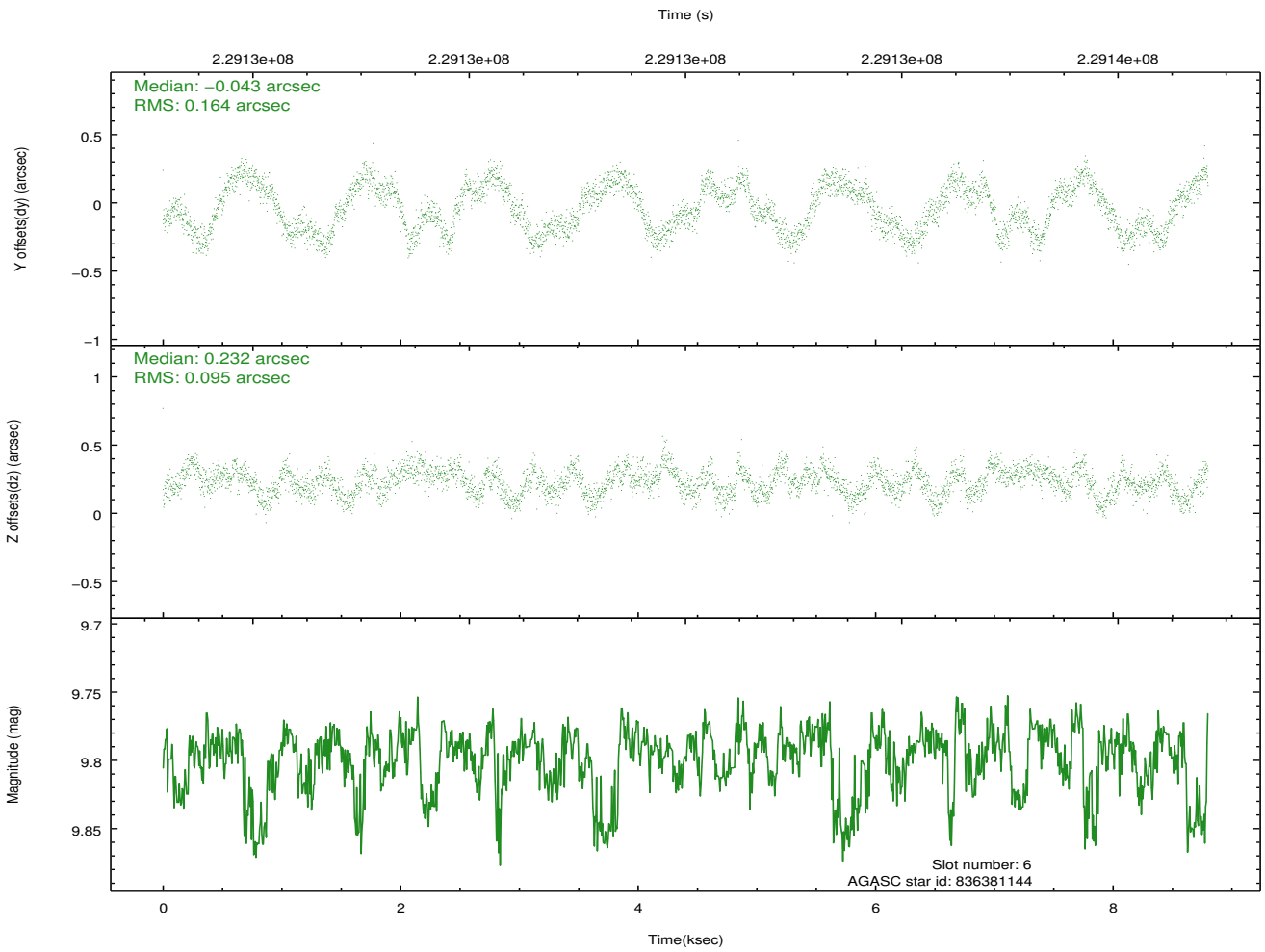
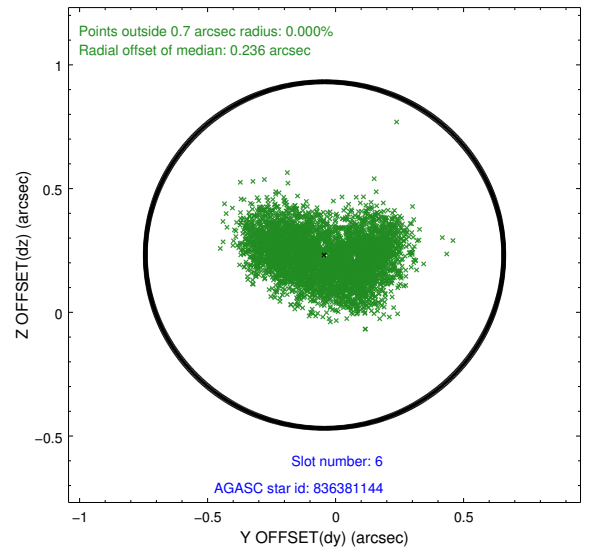
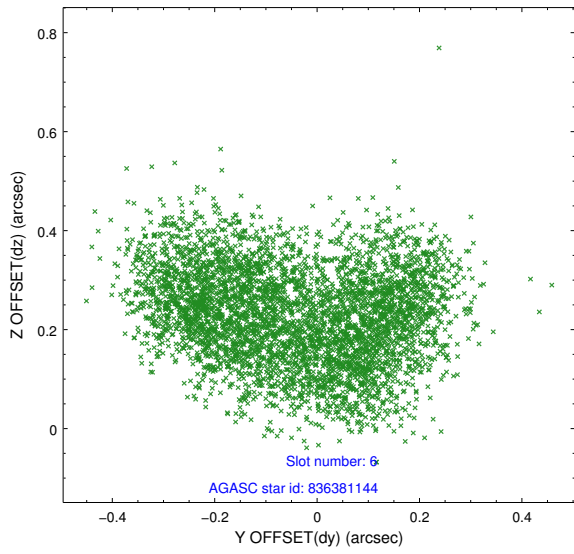
2.4.2 Slot 4



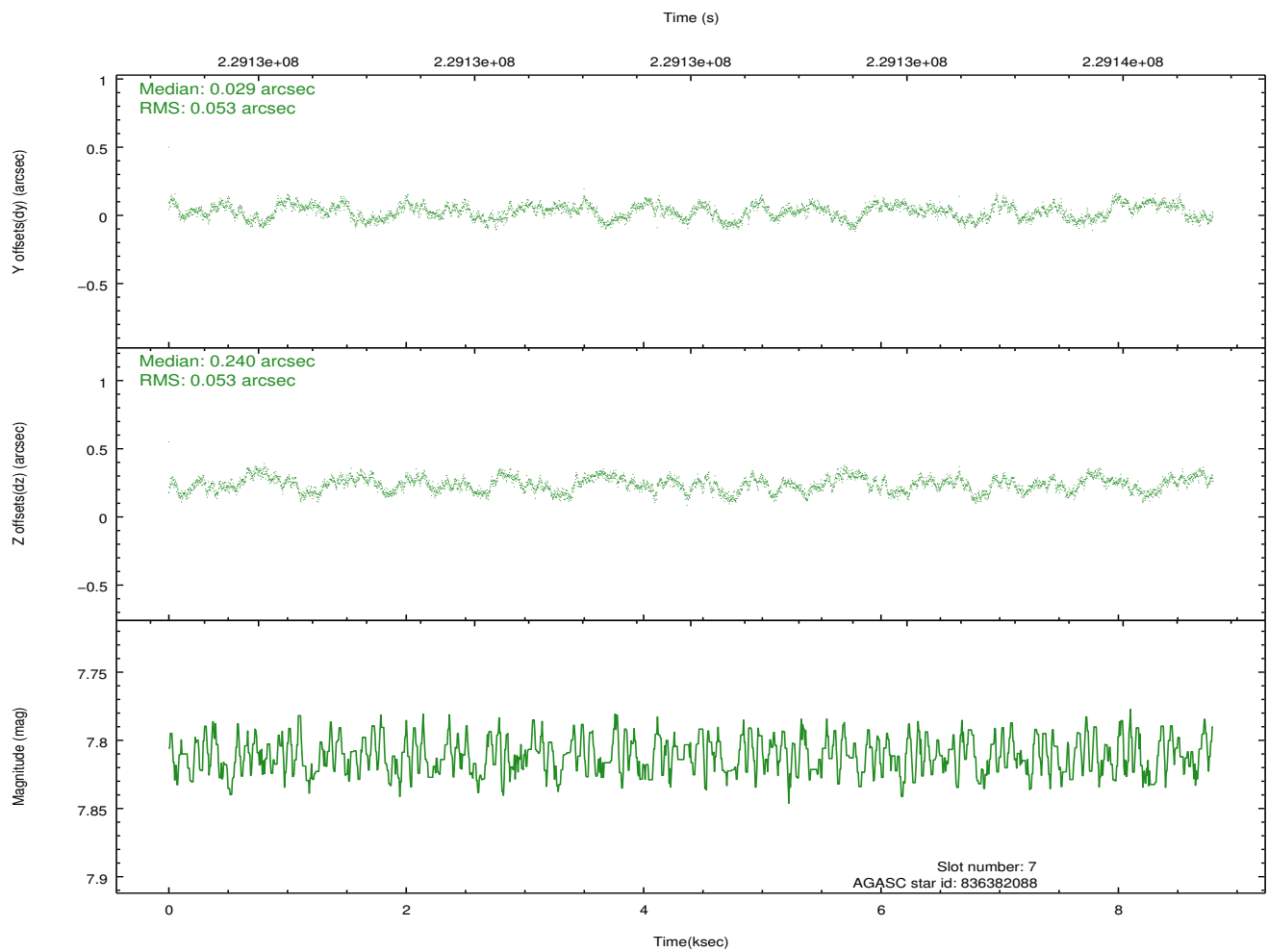
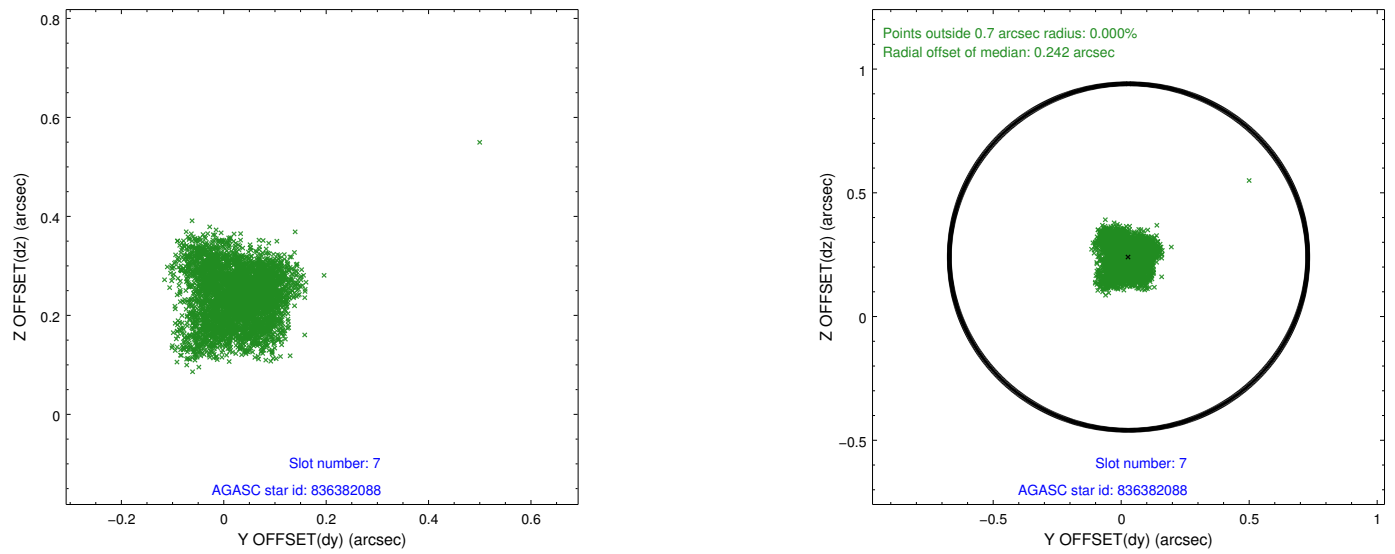
2.4.3 Slot 5



2.4.4 Slot 6

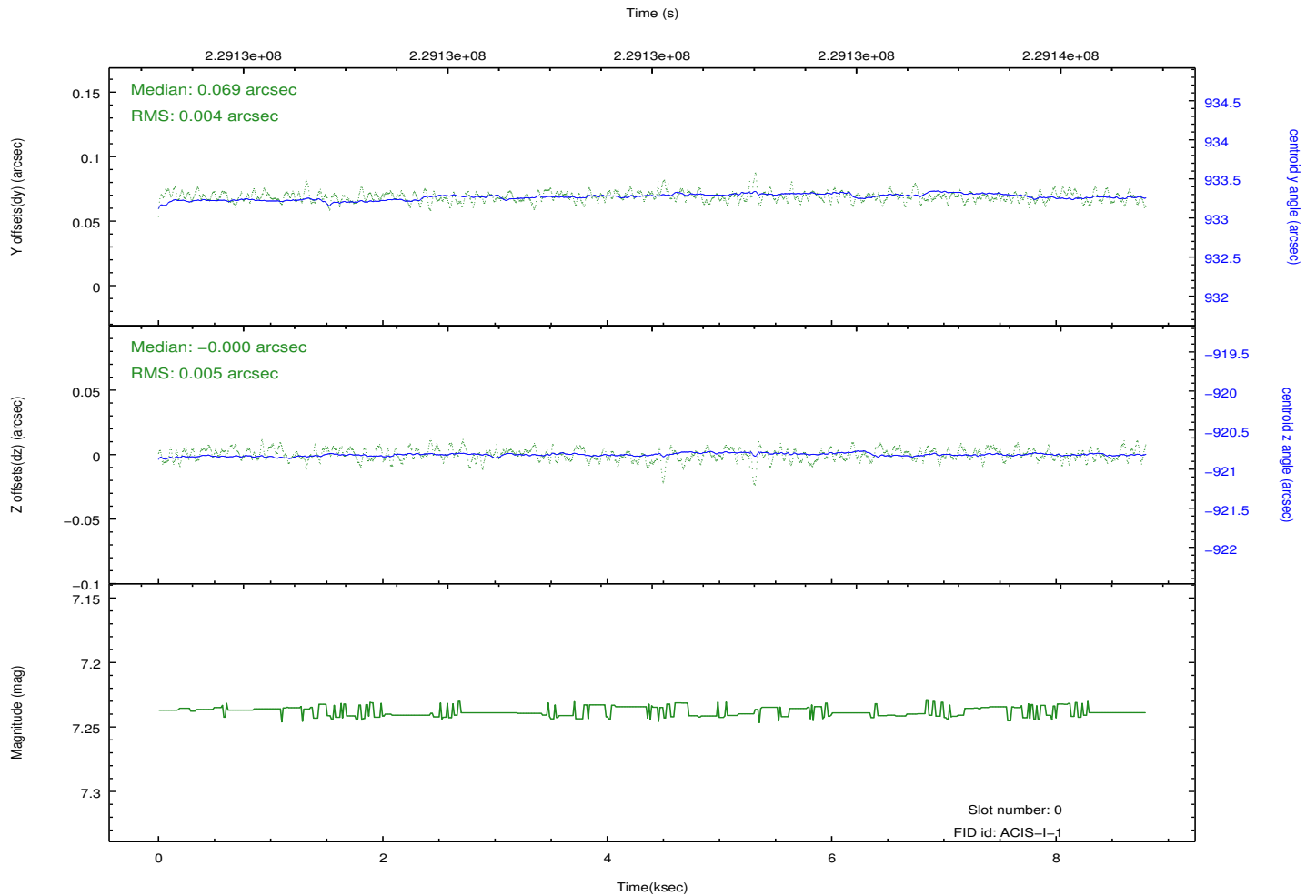
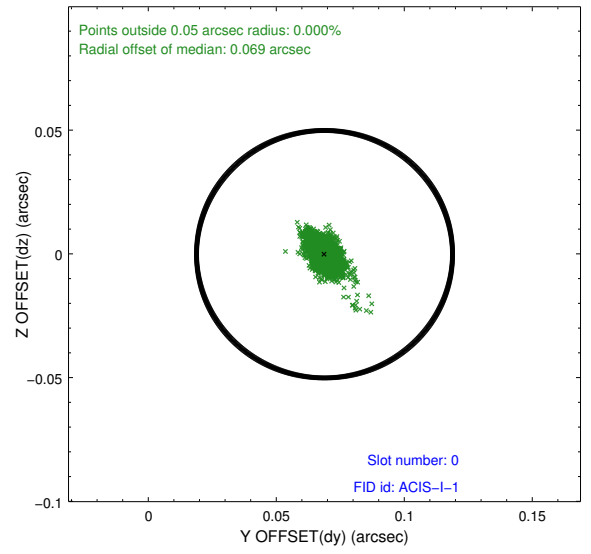
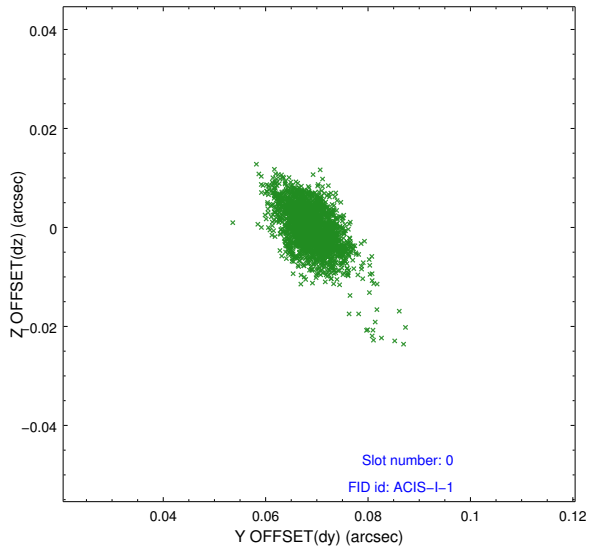


2.4.5 Slot 7

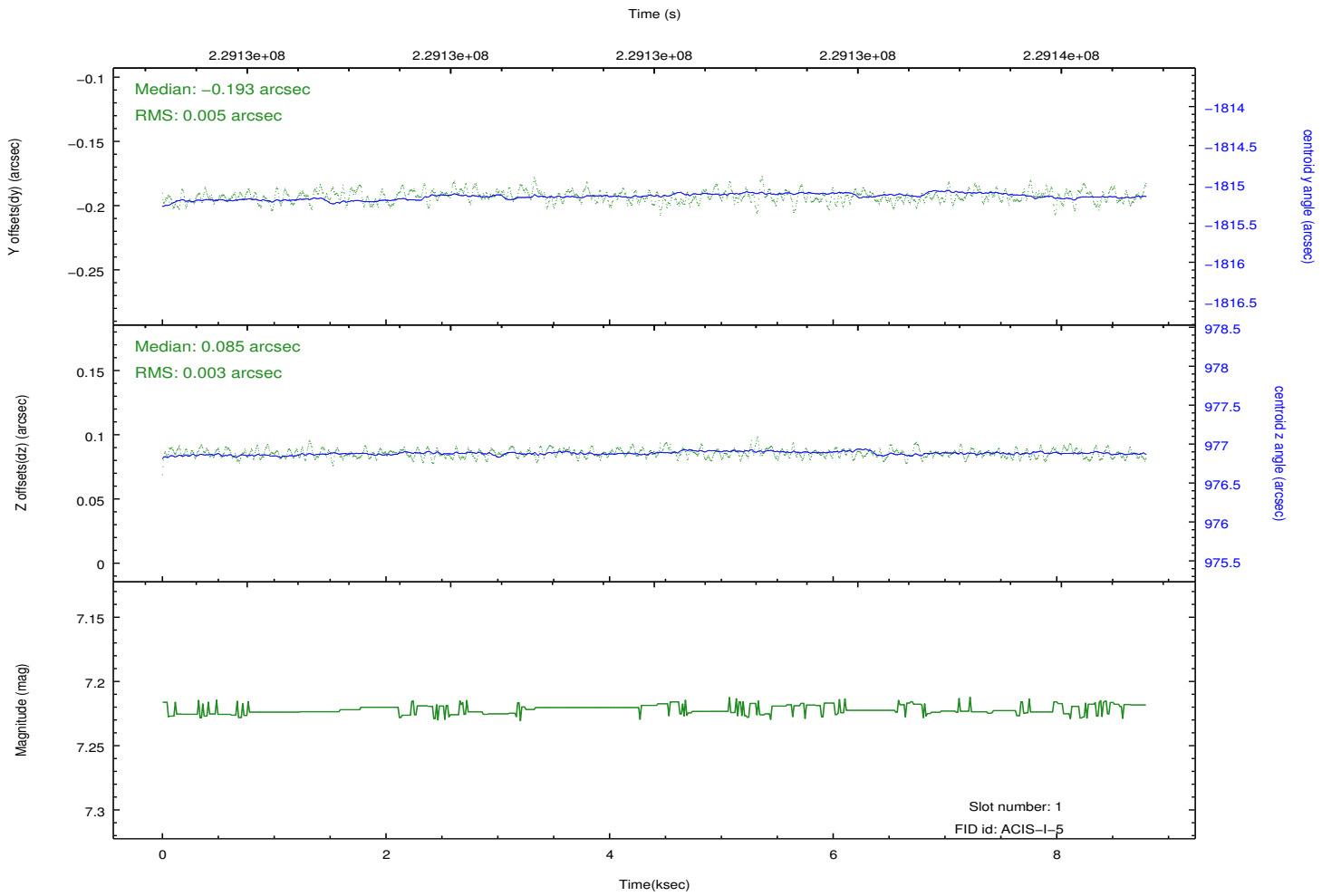
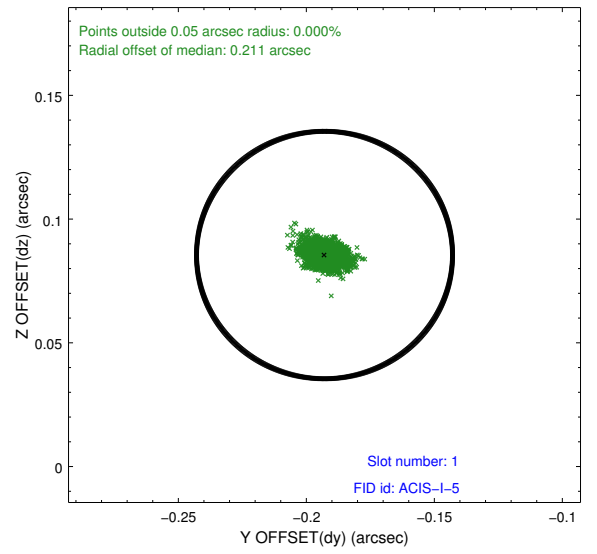
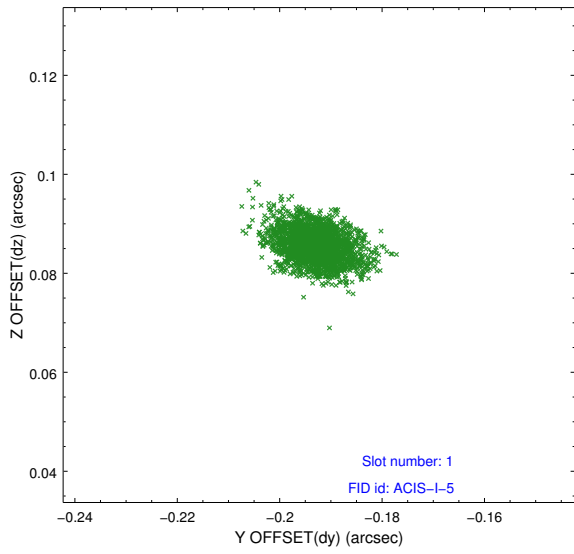


2.5 FID Slots

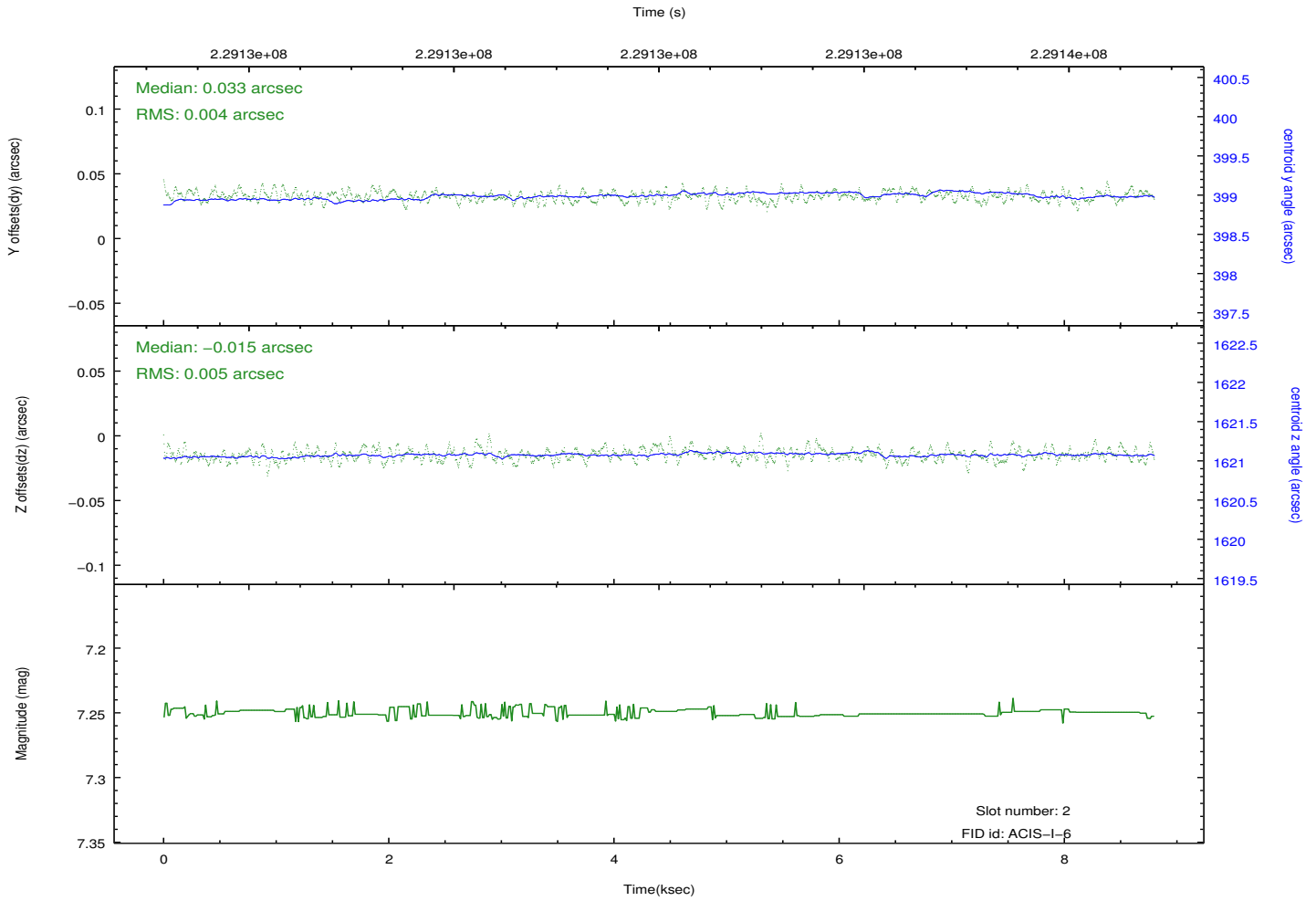
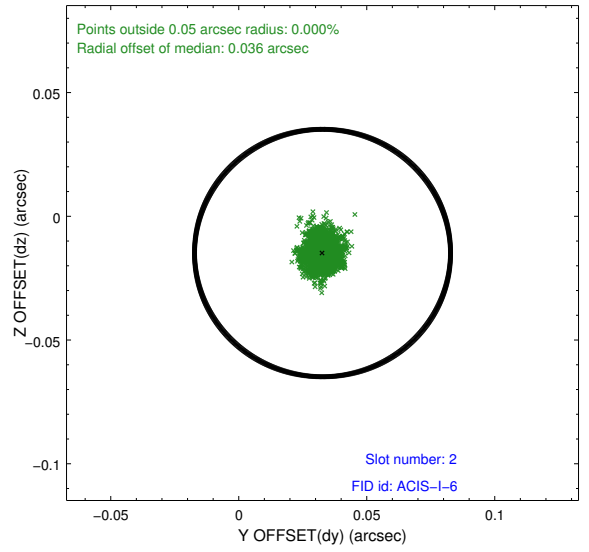
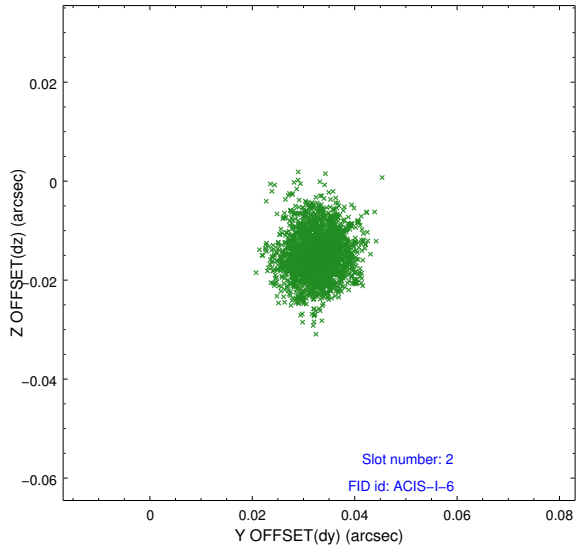
2.5.1 Slot 0



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)	2013.02.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.571

A.2 Comments

Charge time for this ObsId remains at previous value of 8.571 ks although with the current processing the charge time would have been 8.54 ksec.

=====

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 2005:096:00:59. Due to a high radiation environment, the instruments were safed and the observation terminated early. This observation has been reprocessed so that the aspect solution correctly handles the instrument safing and maneuver activities at the end of the observation.