

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 4756 - L2 Version 6
Chandra X-Ray Center

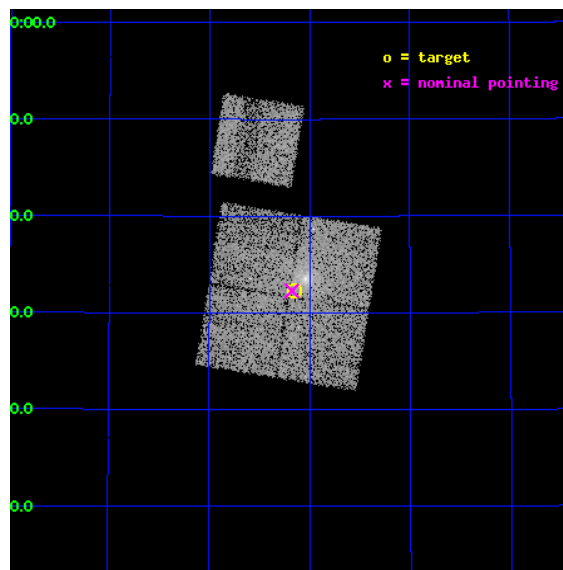
L2 Processing Date : Feb 28 2013

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1 Front

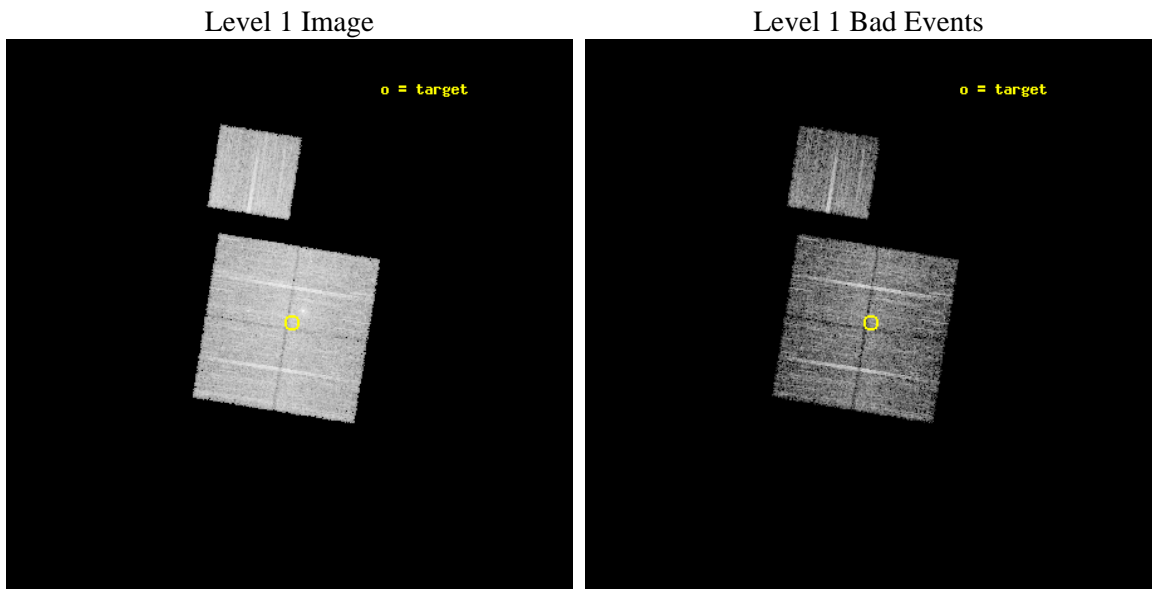
seq_num	700842	Sequence number
obs_id	4756	Observation id
title	Shocks and Bubbles in the ICM: A Chandra Observation of 3C 388	Pro
observer	Dr. Stephen Murray	Principal investigator
object	3C 388	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.037758	Observer's specified target RA [deg]
dec_targ	45.539203	Observer's specified target Dec [deg]
ra_nom	281.04428361863	Nominal RA [deg]
dec_nom	45.538111175171	Nominal Dec [deg]
roll_nom	9.1629369038419	Nominal Roll [deg]
revision	6	Processing version of data
ontime	7464.6360946298	Sum of GTIs [s]
livetime	7367.1051286683	Livetime [s]
ontime0	7470.9180450737	Sum of GTIs [s]
ontime1	7470.9180750251	Sum of GTIs [s]
ontime2	7474.0590153337	Sum of GTIs [s]
ontime3	7464.6360946298	Sum of GTIs [s]
ontime6	7464.6360647082	Sum of GTIs [s]
l2events	39412	Number of level 2 events



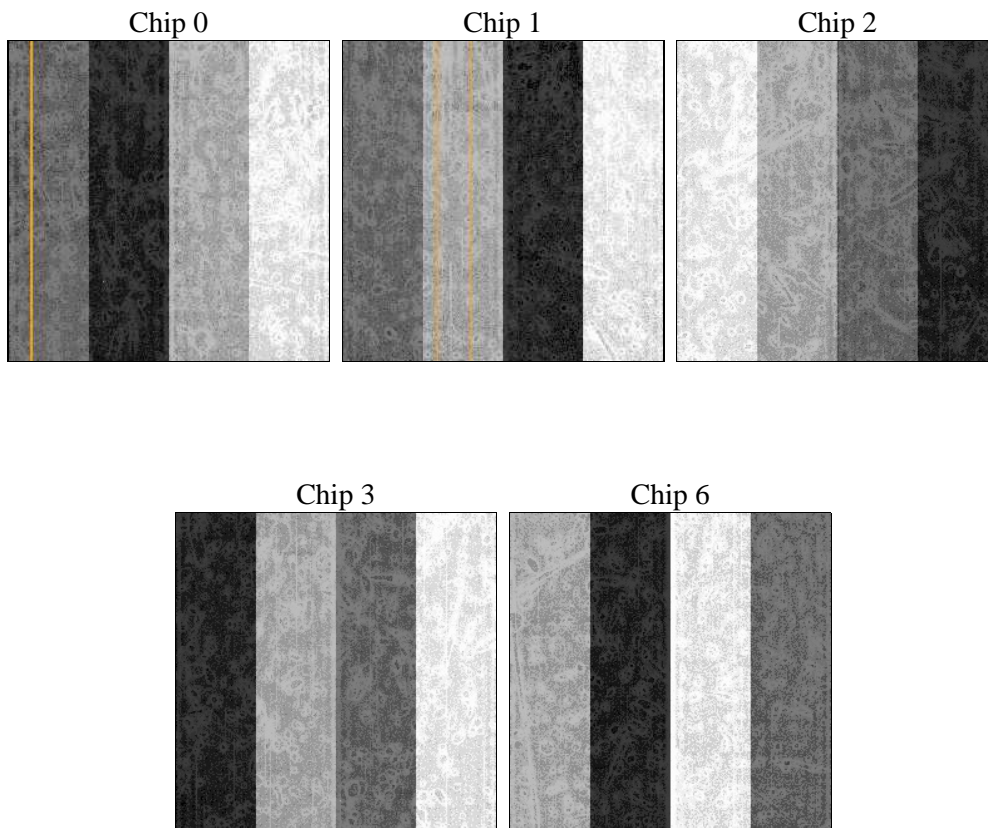
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38516.981000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	7464.6360946298	Sum of GTIs [s]
caldbver	4.5.6	 	ontime0	7470.9180450737	Sum of GTIs [s]
date	2013-02-28T19:16:02	Date and time of file creation	ontime1	7470.9180750251	Sum of GTIs [s]
revision	6	Processing version of data	ontime2	7474.0590153337	Sum of GTIs [s]
			ontime3	7464.6360946298	Sum of GTIs [s]
			ontime6	7464.6360647082	Sum of GTIs [s]
			l1events	259469	Number of level 1 events

2.1.4 Events

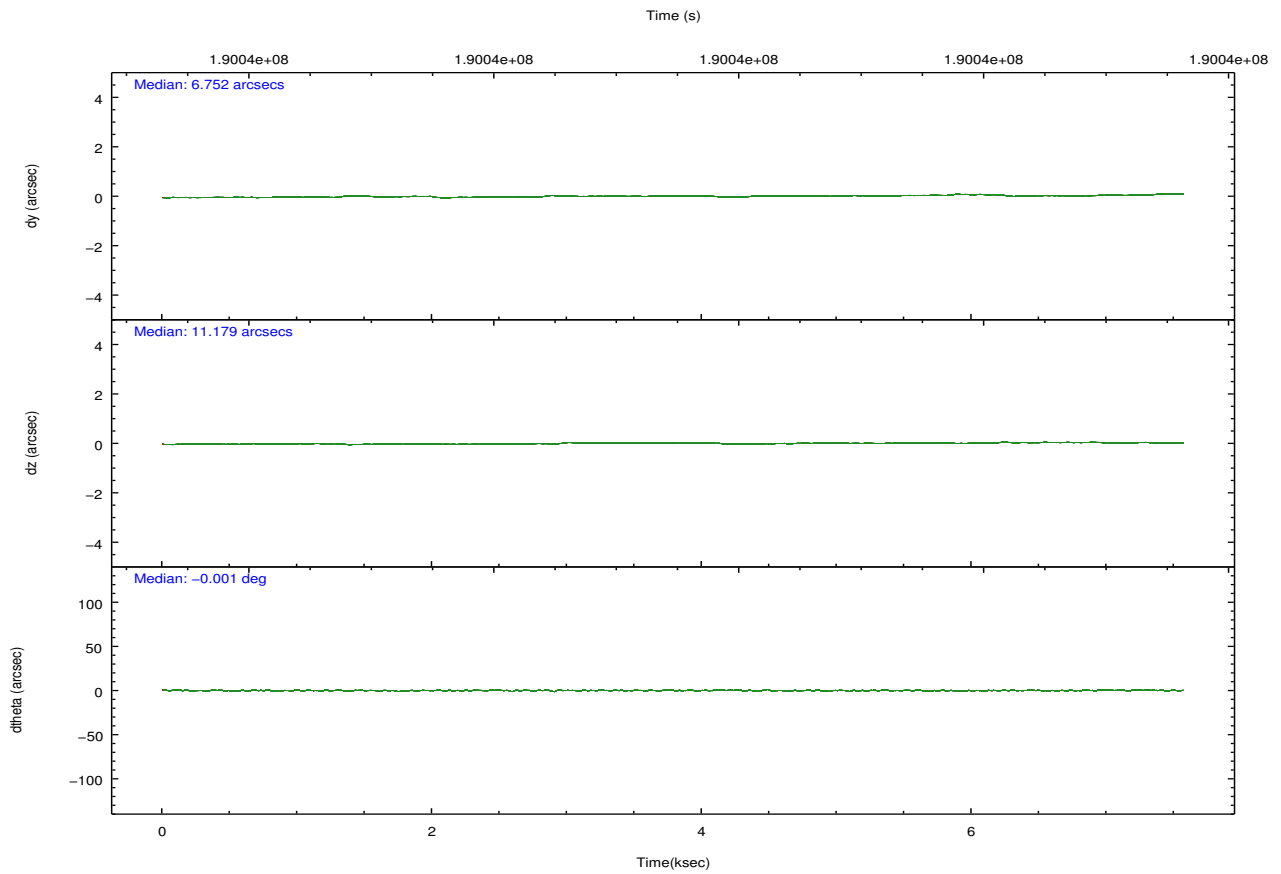
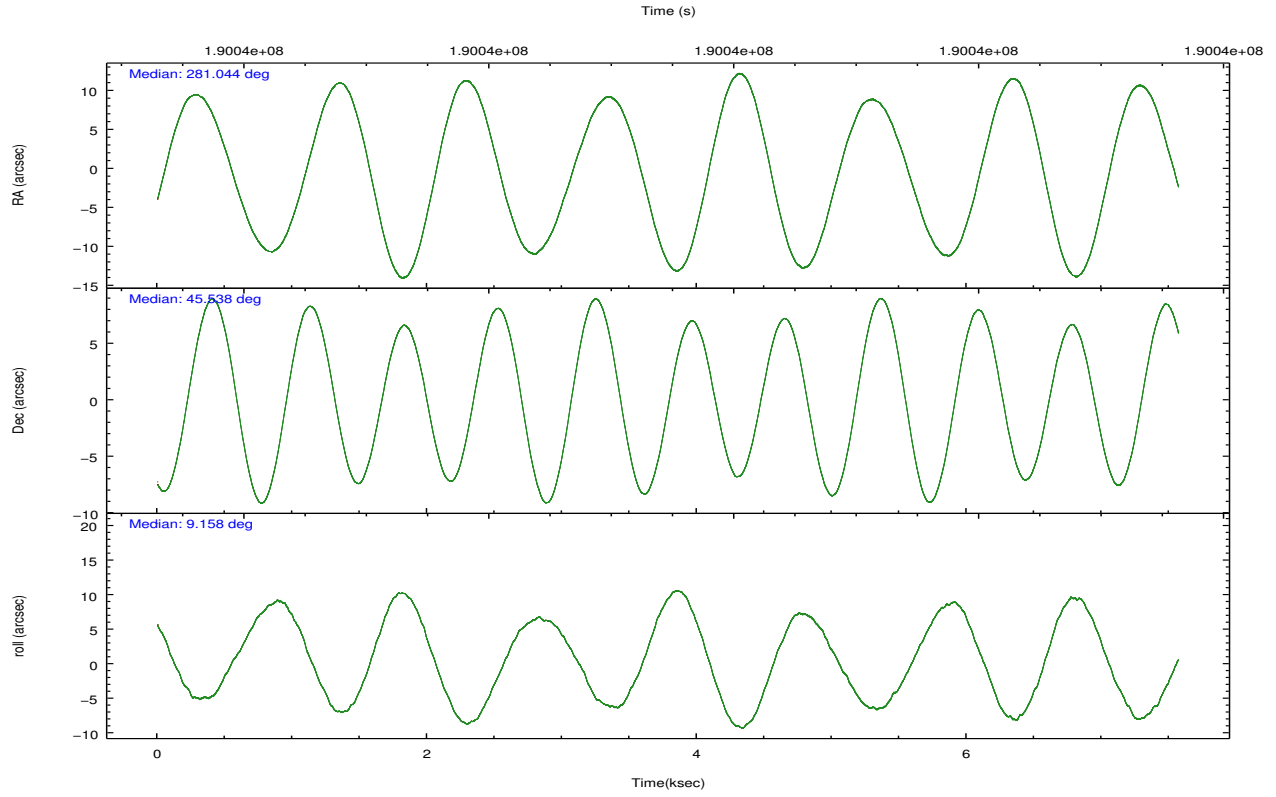
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	47536	47992	54462	55697	53782
rejected events	38258	39203	44388	44774	44848
rejected %	80%	81%	81%	80%	83%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3926	3169	4835	5315	3605
	8%	6%	8%	9%	6%
grade 1 events	33	24	54	39	30
	0%	0%	0%	0%	0%
grade 2 events	2572	2659	2282	2522	2505
	5%	5%	4%	4%	4%
grade 3 events	544	585	515	561	516
	1%	1%	0%	1%	0%
grade 4 events	576	591	826	643	544
	1%	1%	1%	1%	1%
grade 5 events	1775	1815	1729	1990	1983
	3%	3%	3%	3%	3%
grade 6 events	1766	1897	1739	2026	1876
	3%	3%	3%	3%	3%
grade 7 events	36344	37252	42482	42601	42723
	76%	77%	78%	76%	79%

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	281.013975	281.0442836186299	Subarray requested	NONE	NONE
[deg] Pointing Dec	45.520713	45.53811117517056	Alternating exposures requested	N	N
[deg] Pointing Roll	8.975899	9.162936903841858	[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	-233.5874344608287	-233.5874344608287			
[mm] SIM translation stage offset	-0.005028630603106876	-0.005028630603106876			
[s] Observation start time (MET)	190035686.184000	190035686.184			
Observation start date	2004-01-09T11:40:22	2004-01-09T11:41:26			
[s] Observation end time (MET)	190043258.000000	190043258			
Observation end date	2004-01-09T13:47:38	2004-01-09T13:47:37			
Read mode	TIMED	TIMED			

2.3 Aspect

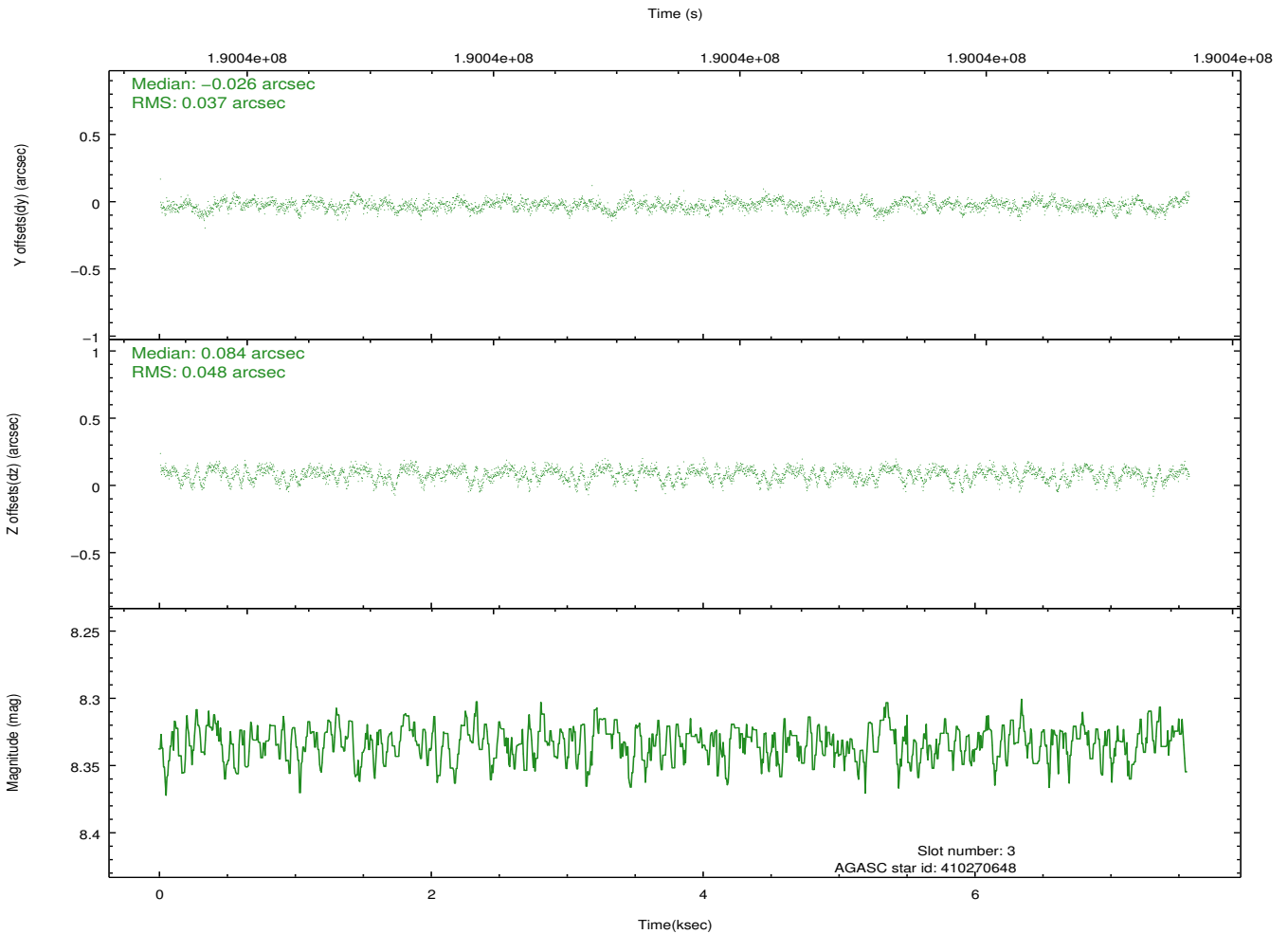
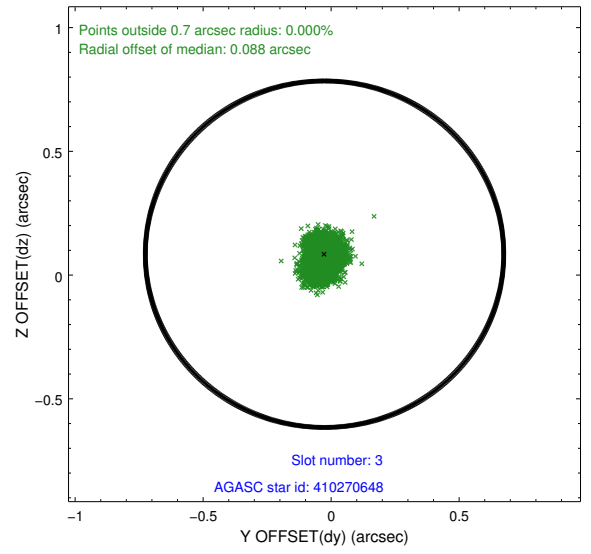
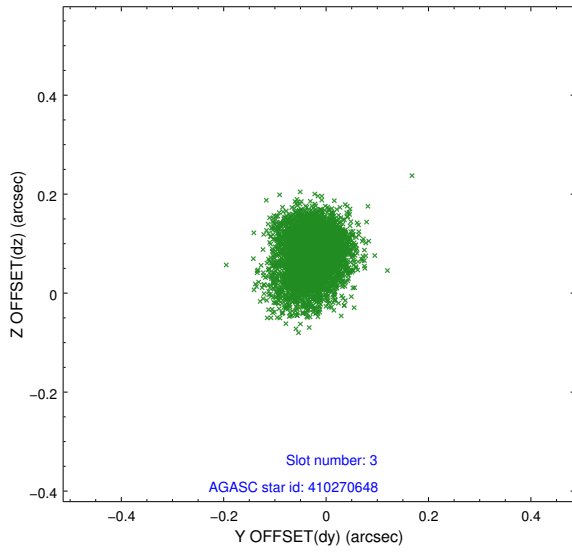


Slot Statistics

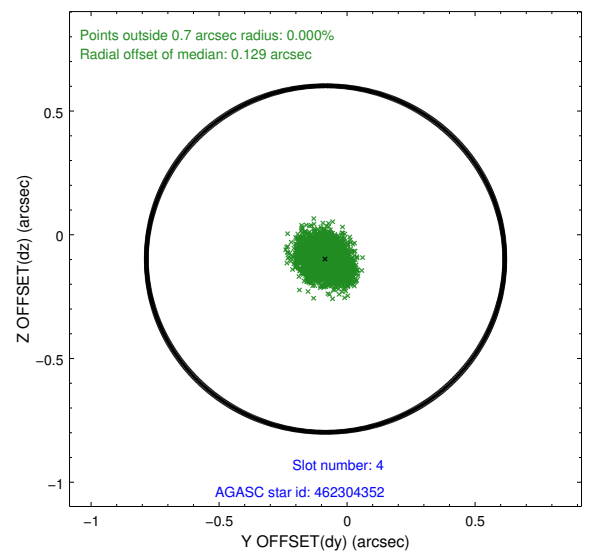
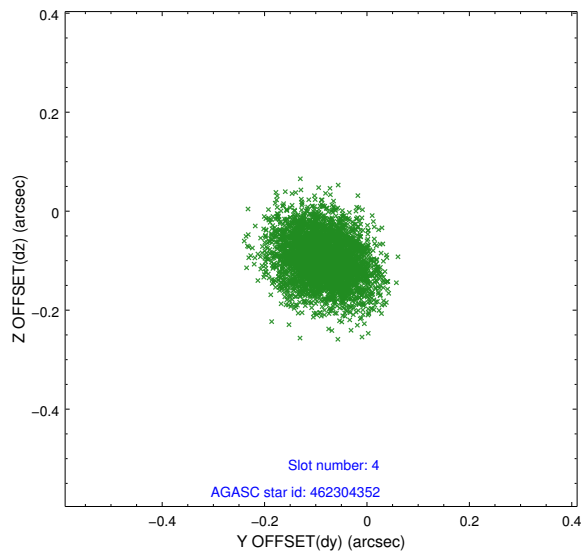
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1838	0.023	-0.004	0.006	0.010	0.000000	0.000000	932.94	-834.70
1	FID	ACIS-I-5	7.23	1838	-0.130	0.050	0.006	0.010	0.000000	0.000000	-1814.86	1062.53
2	FID	ACIS-I-6	7.25	1839	0.016	0.025	0.006	0.011	0.000000	0.000000	397.72	1707.81
3	GUIDE	410270648	8.33	3683	-0.026	0.084	0.064	0.107	281.097411	44.889988	-144.03	-2275.62
4	GUIDE	462304352	8.93	3683	-0.084	-0.098	0.073	0.115	281.113153	45.826830	417.26	1049.33
5	GUIDE	462307888	8.50	3680	0.036	-0.040	0.062	0.103	280.411703	45.917665	-1266.33	1652.77
6	GUIDE	464004928	9.36	3680	0.044	0.072	0.083	0.136	281.760512	46.203785	2221.64	2148.26
7	GUIDE	462305872	9.12	3679	0.030	-0.015	0.082	0.131	280.002199	45.867625	-2307.61	1645.69

2.4 Star Slots

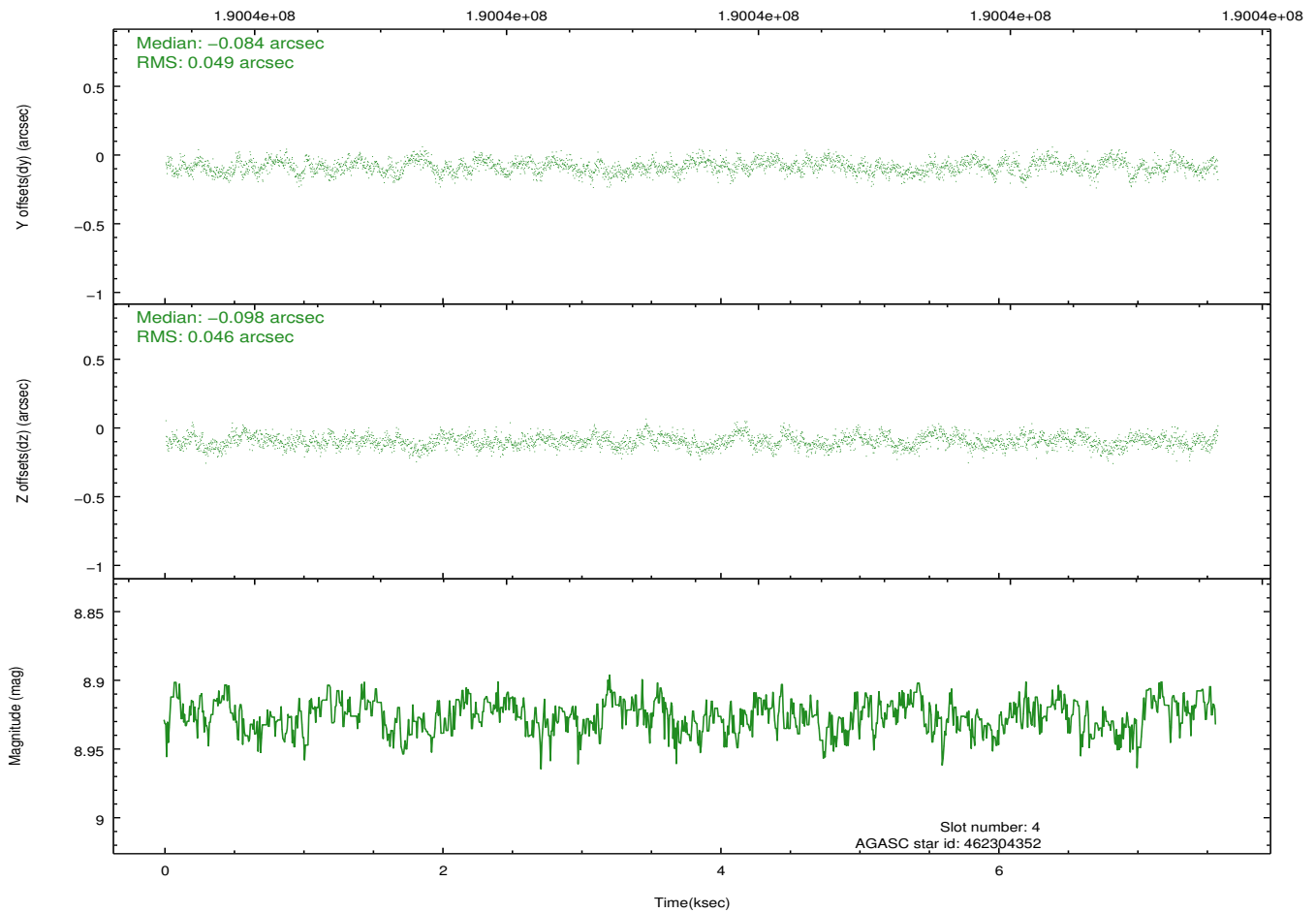
2.4.1 Slot 3



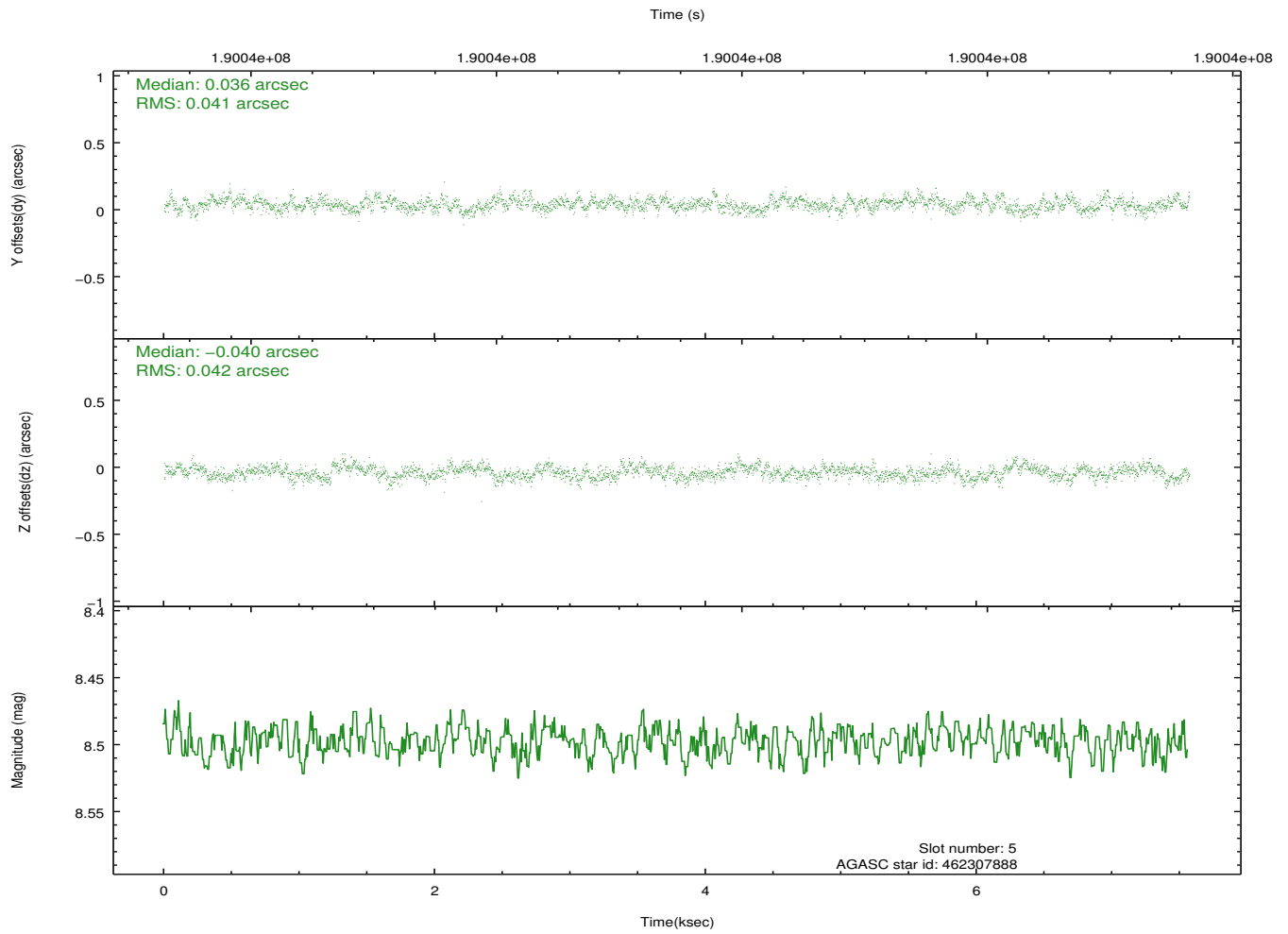
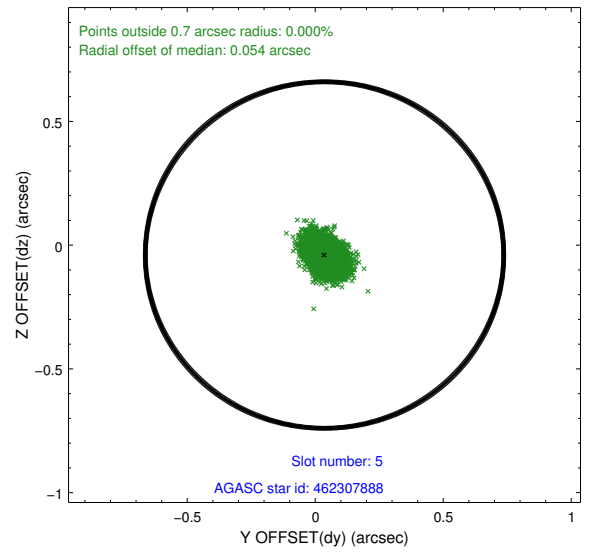
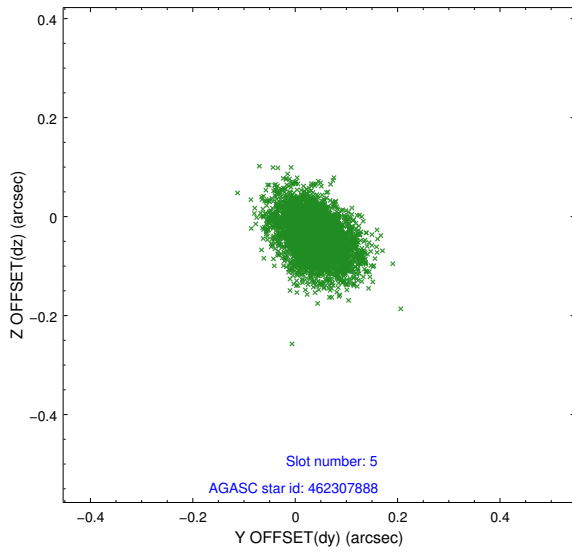
2.4.2 Slot 4



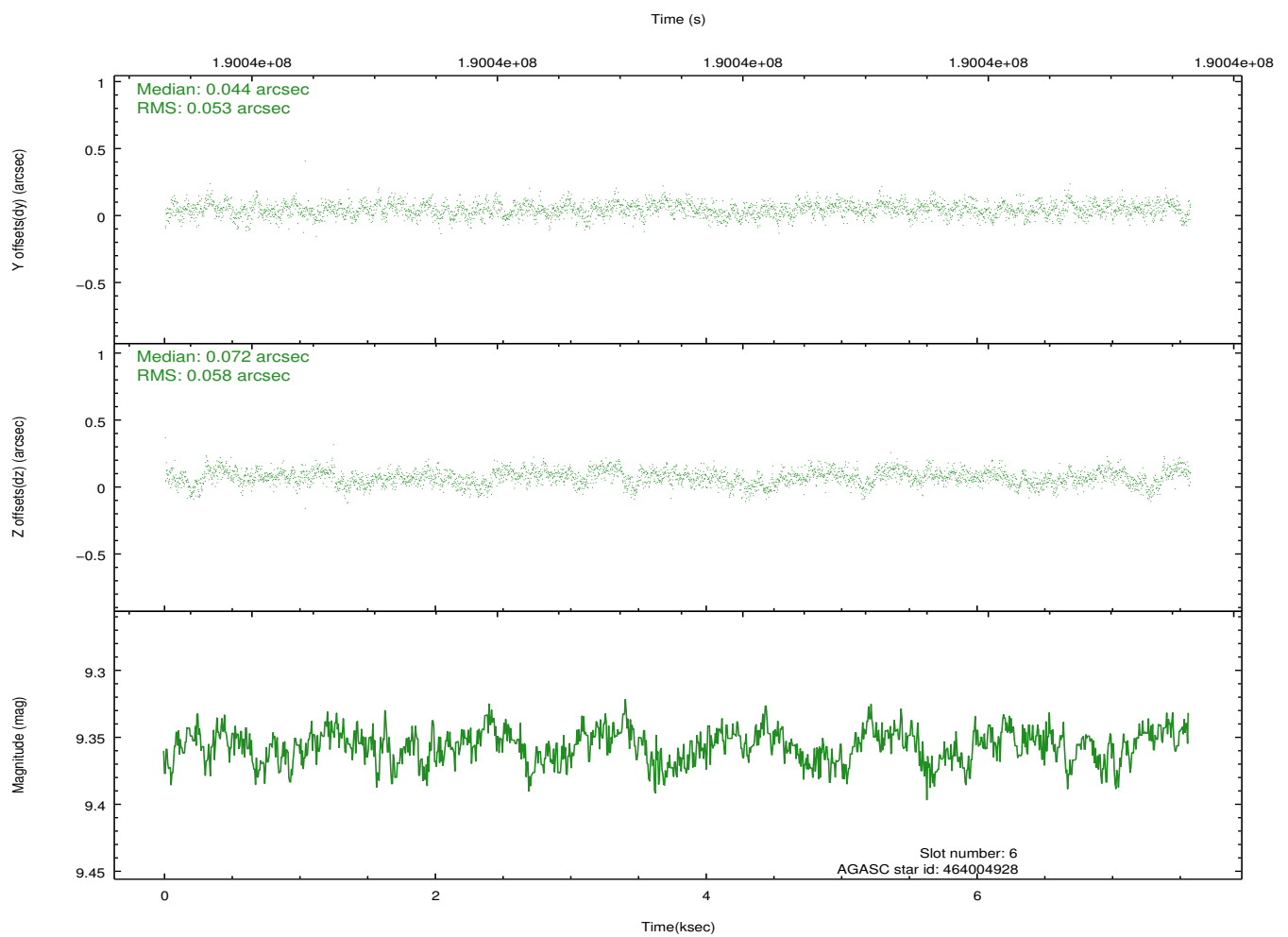
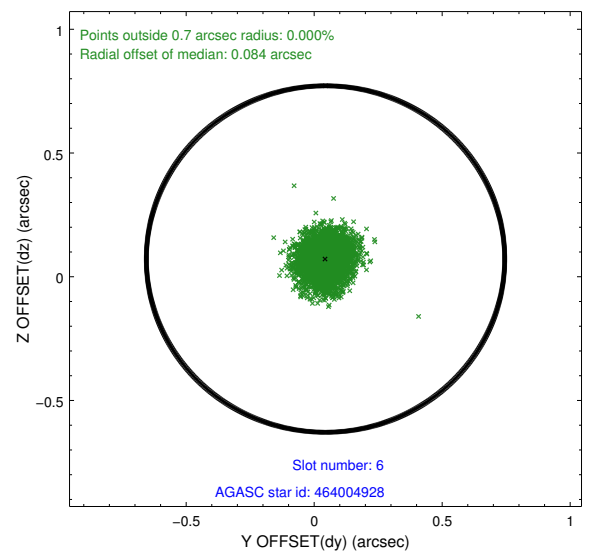
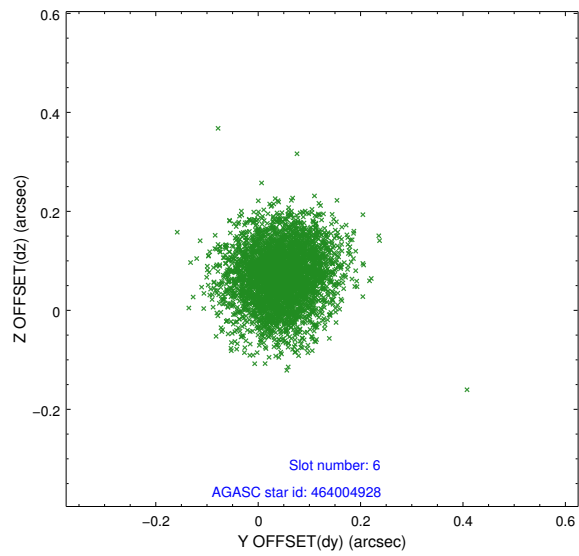
Time (s)



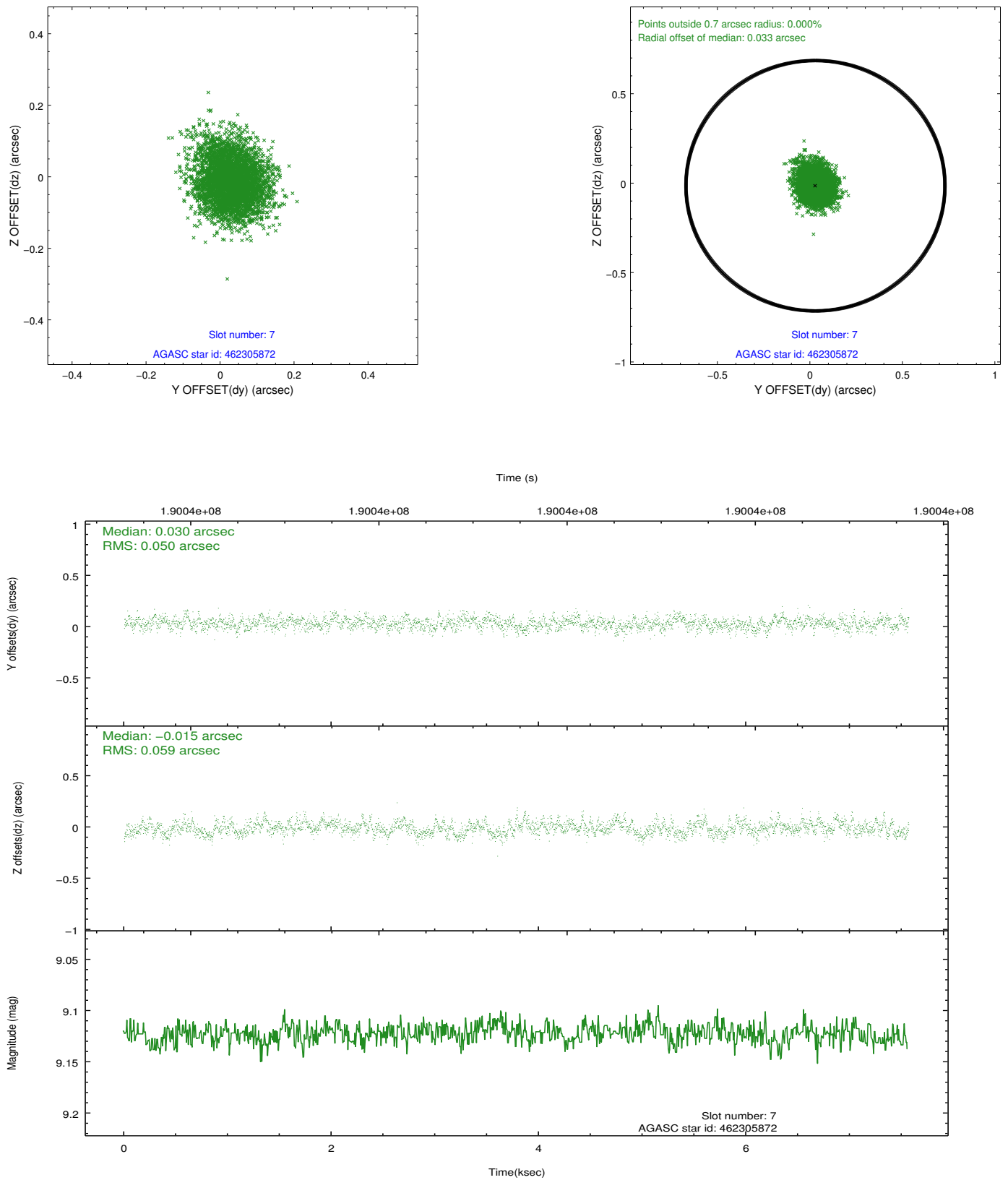
2.4.3 Slot 5



2.4.4 Slot 6

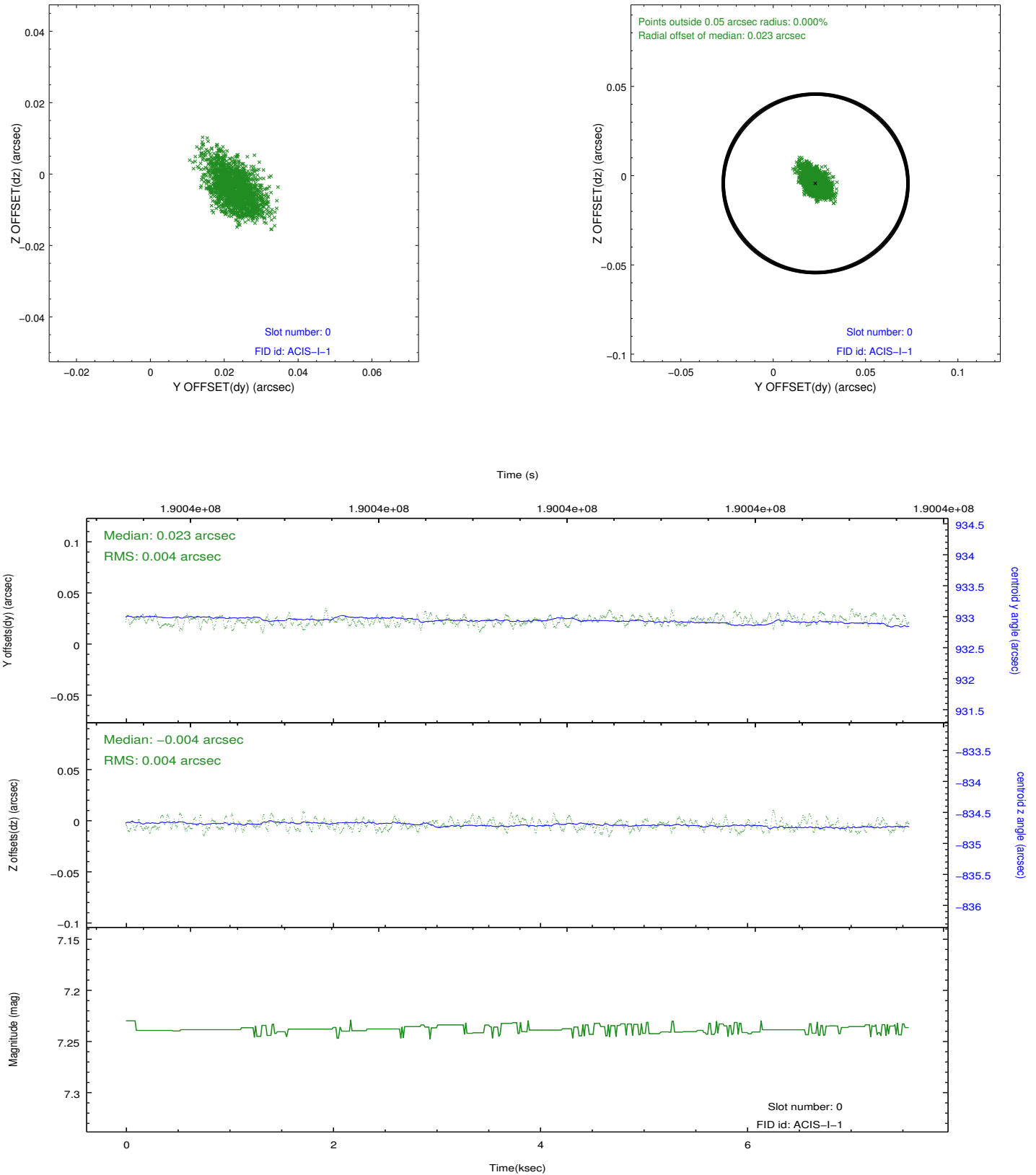


2.4.5 Slot 7

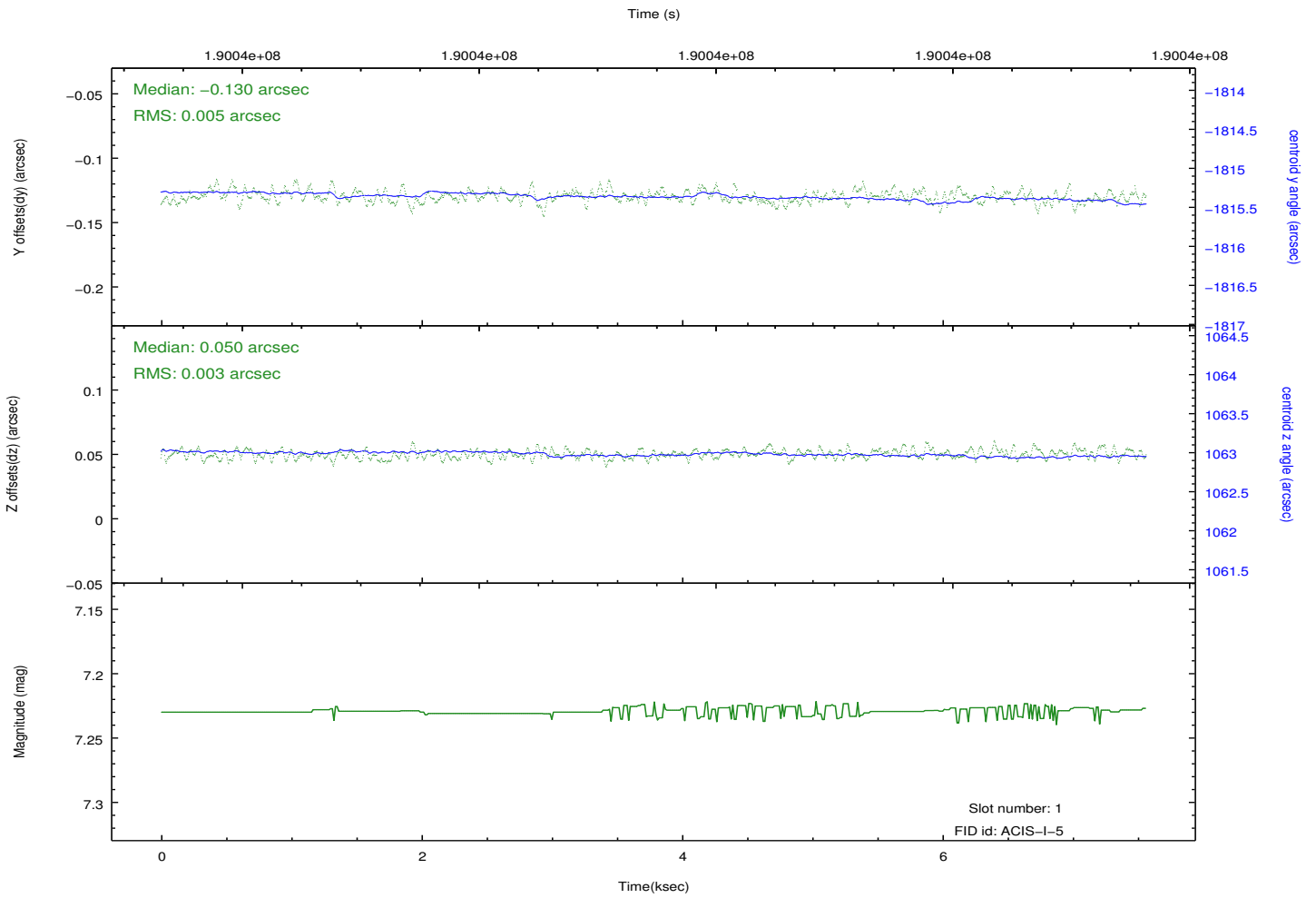
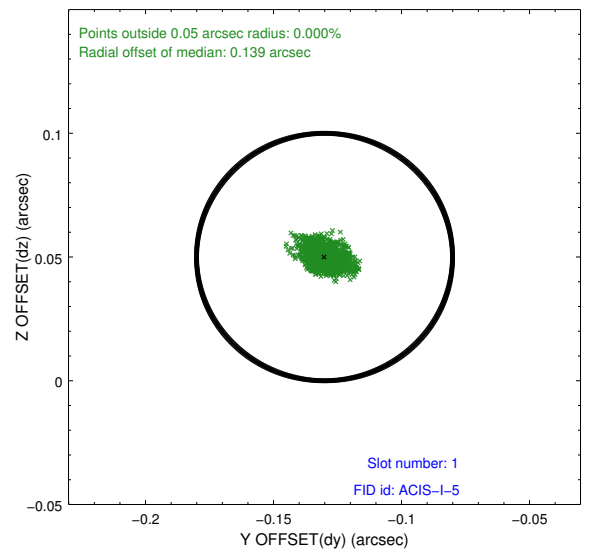
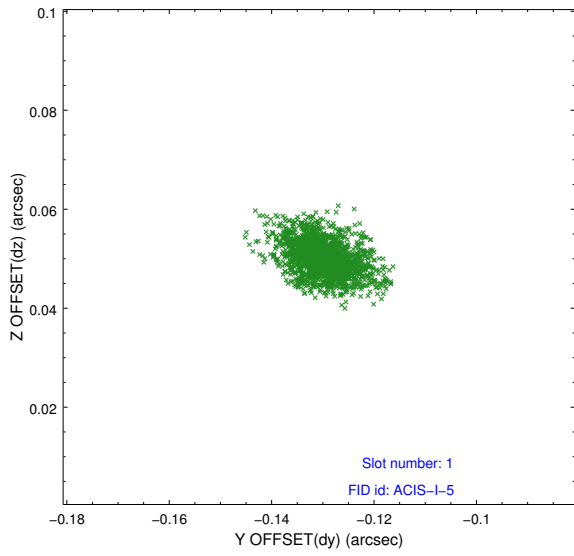


2.5 FID Slots

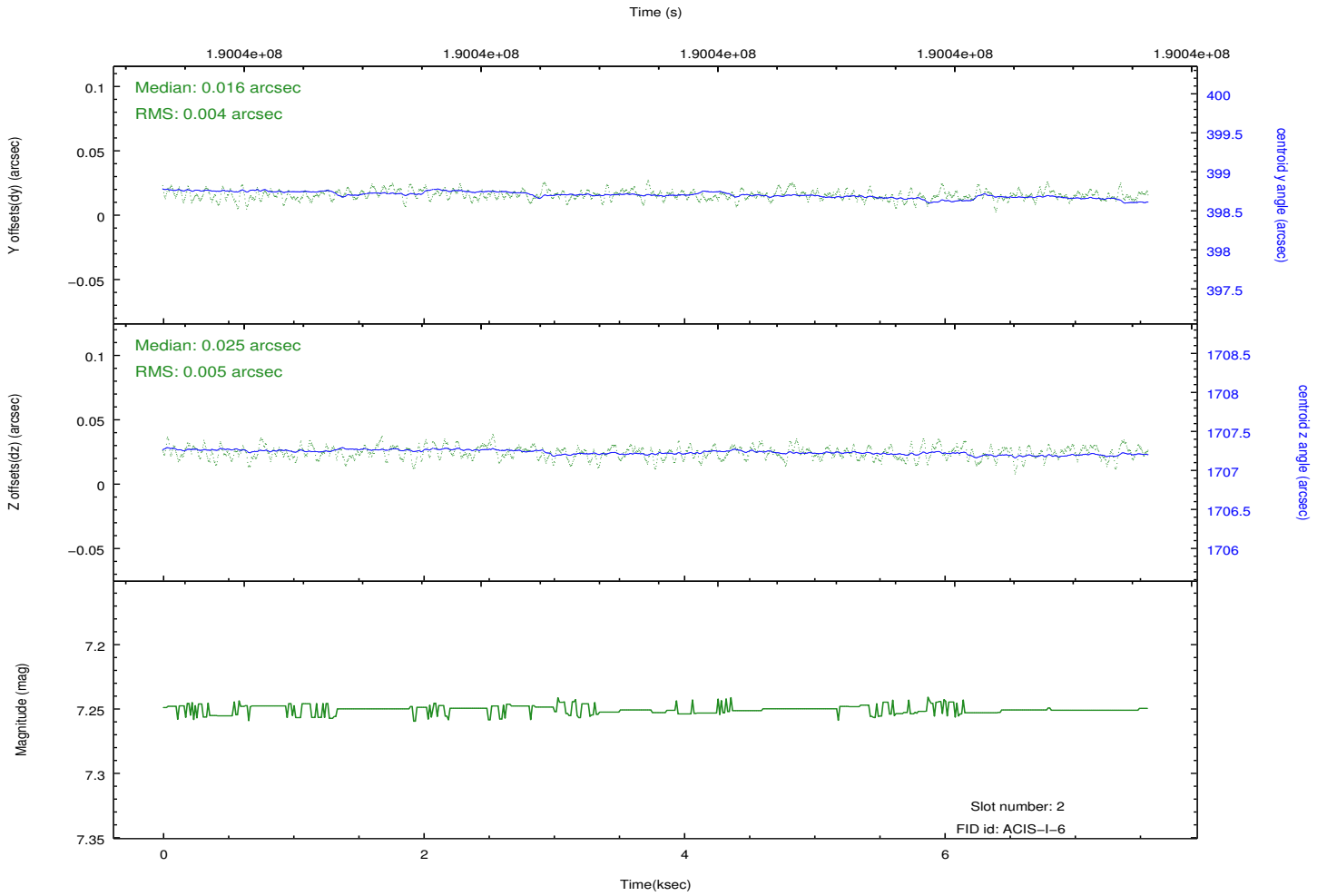
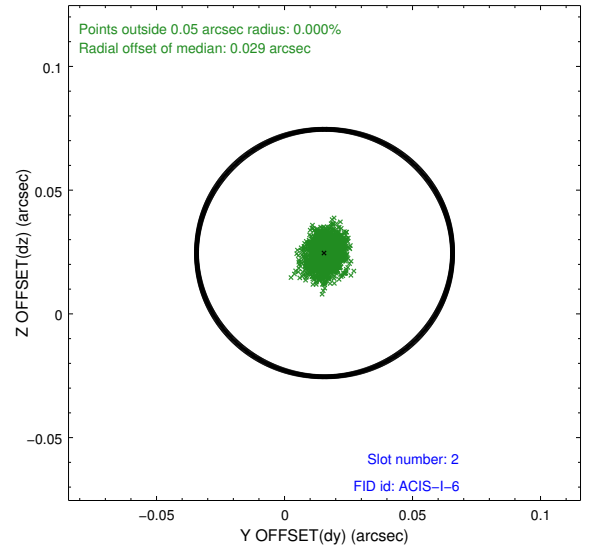
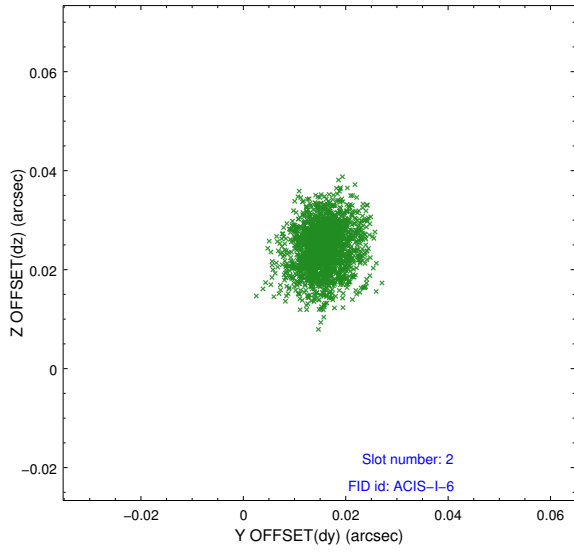
2.5.1 Slot 0



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)	2013.03.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.783

A.2 Comments

Charge time for this ObsId remains at previous value of 7.783 ks although with the current processing the charge time would have been 7.46 ksec.

=====

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 2004:9:13:47. 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.

=====

The CCD bias map for CCD_ID = 2 was incomplete because of data gaps in telemetry. The bias map for CCD_ID = 2 was reconstructed using scaled data from a comparable bias map for another observation to fill the missing data. The pixels affected by the anomaly are bounded by the coordinates:
(281.16122,45.54251), (281.12923,45.68017), (281.12557,45.67975), (281.15757,45.54210)