

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 4016 - L2 Version 6
Chandra X-Ray Center

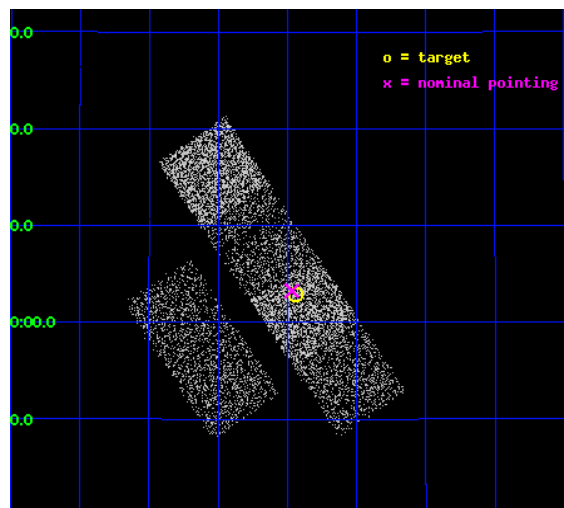
L2 Processing Date : Feb 13 2013

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1 Front

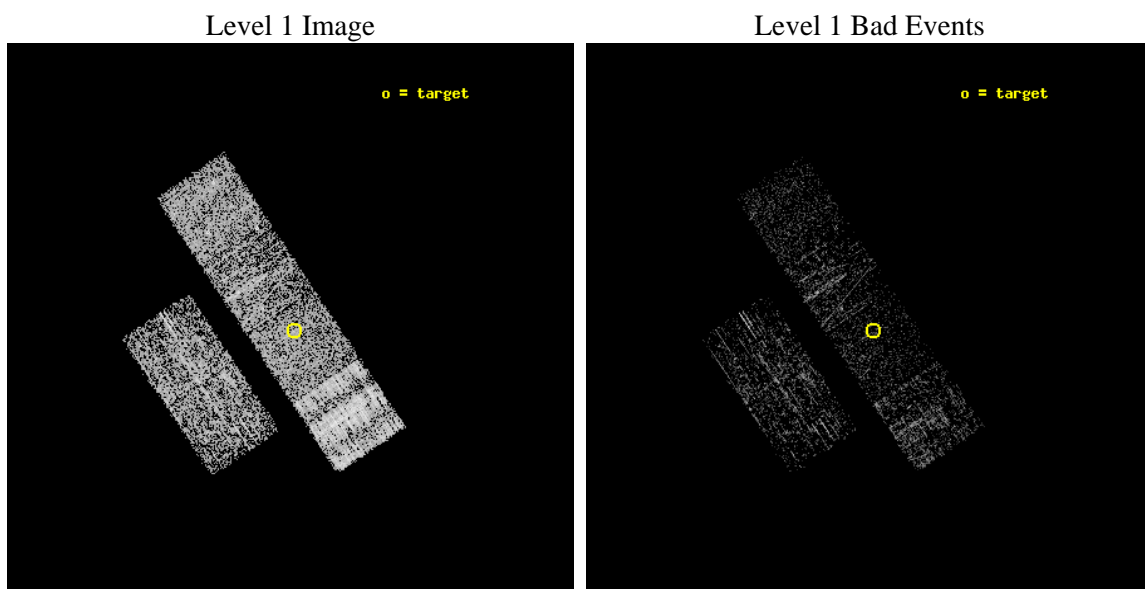
seq_num	700695	Sequence number
obs_id	4016	Observation id
title	A CHANDRA SURVEY OF INFRARED-BRIGHT LINER GALAXIES	Proposal title
observer	Dr. Shobita Satyapal	Principal investigator
object	NGC4419	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.735	Observer's specified target RA [deg]
dec_targ	15.047222	Observer's specified target Dec [deg]
ra_nom	186.74190974306	Nominal RA [deg]
dec_nom	15.054196448684	Nominal Dec [deg]
roll_nom	56.211591106385	Nominal Roll [deg]
revision	6	Processing version of data
ontime	767.99999713898	Sum of GTIs [s]
livetime	758.27511874112	Livetime [s]
ontime2	767.99999713898	Sum of GTIs [s]
ontime3	767.99999713898	Sum of GTIs [s]
ontime5	767.99999713898	Sum of GTIs [s]
ontime6	767.99999713898	Sum of GTIs [s]
ontime7	767.99999713898	Sum of GTIs [s]
ontime8	767.99999713898	Sum of GTIs [s]
l2events	10241	Number of level 2 events



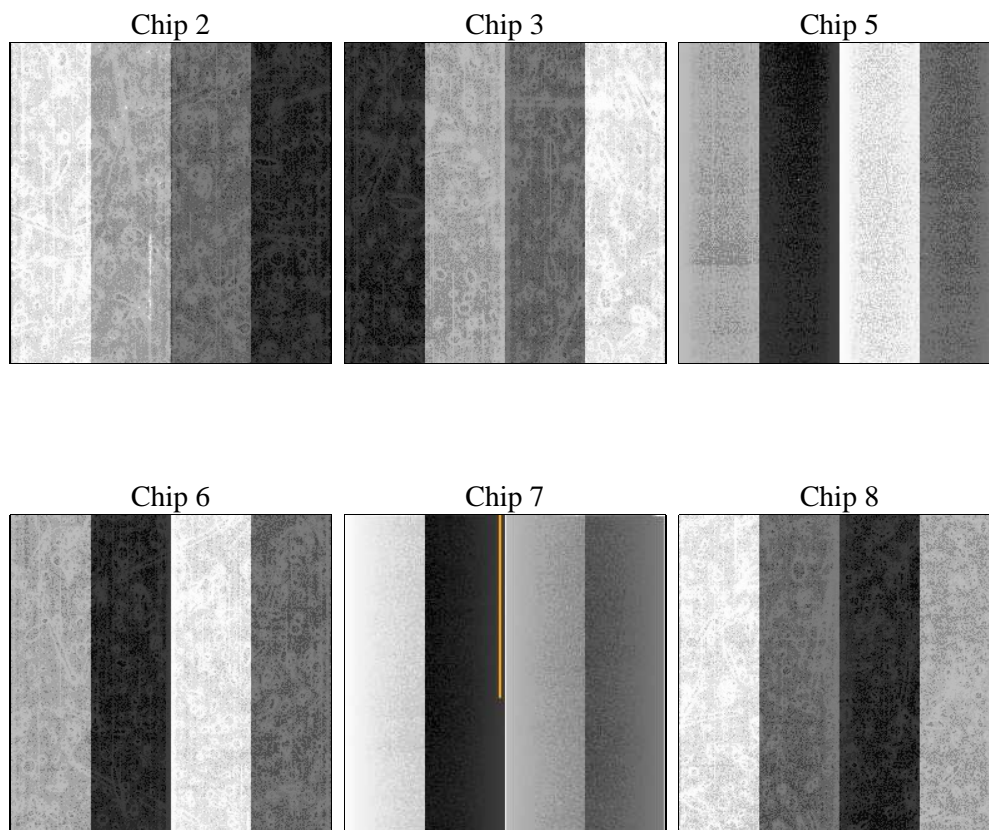
2 OBI

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	8.5.1.1	Processing system revision	ontime	767.99999713898	Sum of GTIs [s]
caldsver	4.5.5	 	ontime2	767.99999713898	Sum of GTIs [s]
date	2013-02-13T04:00:51	Date and time of file creation	ontime3	767.99999713898	Sum of GTIs [s]
revision	6	Processing version of data	ontime5	767.99999713898	Sum of GTIs [s]
			ontime6	767.99999713898	Sum of GTIs [s]
			ontime7	767.99999713898	Sum of GTIs [s]
			ontime8	767.99999713898	Sum of GTIs [s]
			l1events	52147	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	7159	6573	7694	6667	6569	17485
rejected events	5728	5342	4281	5296	3755	6868
rejected %	80%	81%	55%	79%	57%	39%

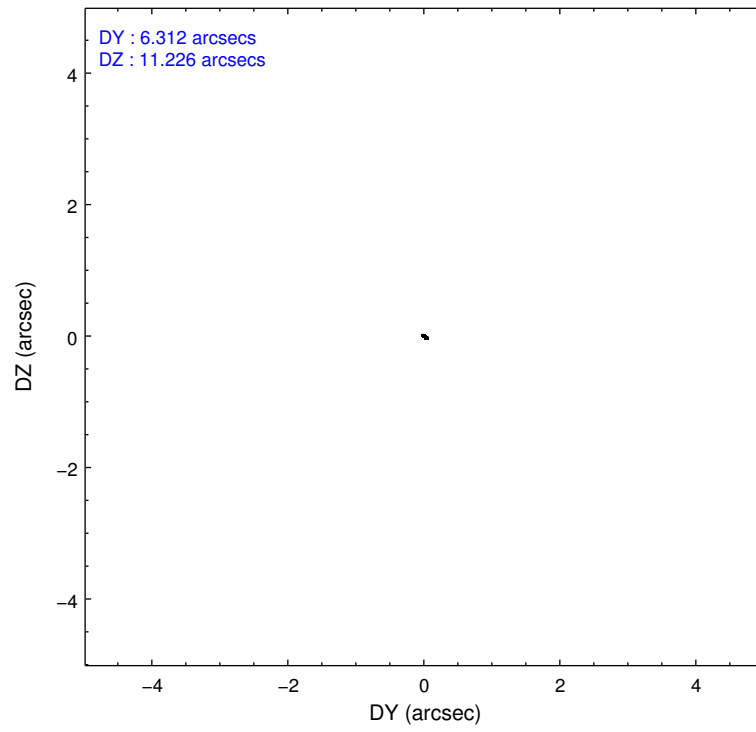
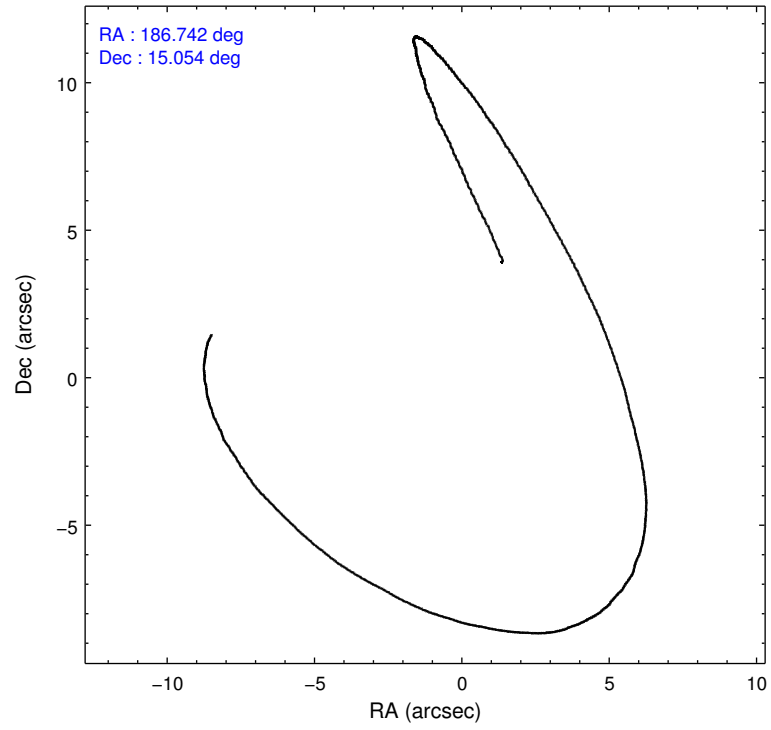
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	715	548	561	634	349	3778
	9%	8%	7%	9%	5%	21%
grade 1 events	7	4	39	6	9	37
	0%	0%	0%	0%	0%	0%
grade 2 events	386	330	1073	391	653	1383
	5%	5%	13%	5%	9%	7%
grade 3 events	65	68	206	66	292	2112
	0%	1%	2%	0%	4%	12%
grade 4 events	91	78	205	43	249	1873
	1%	1%	2%	0%	3%	10%
grade 5 events	167	197	522	184	542	336
	2%	2%	6%	2%	8%	1%
grade 6 events	267	282	1579	293	1465	2097
	3%	4%	20%	4%	22%	11%
grade 7 events	5461	5066	3509	5050	3010	5869
	76%	77%	45%	75%	45%	33%

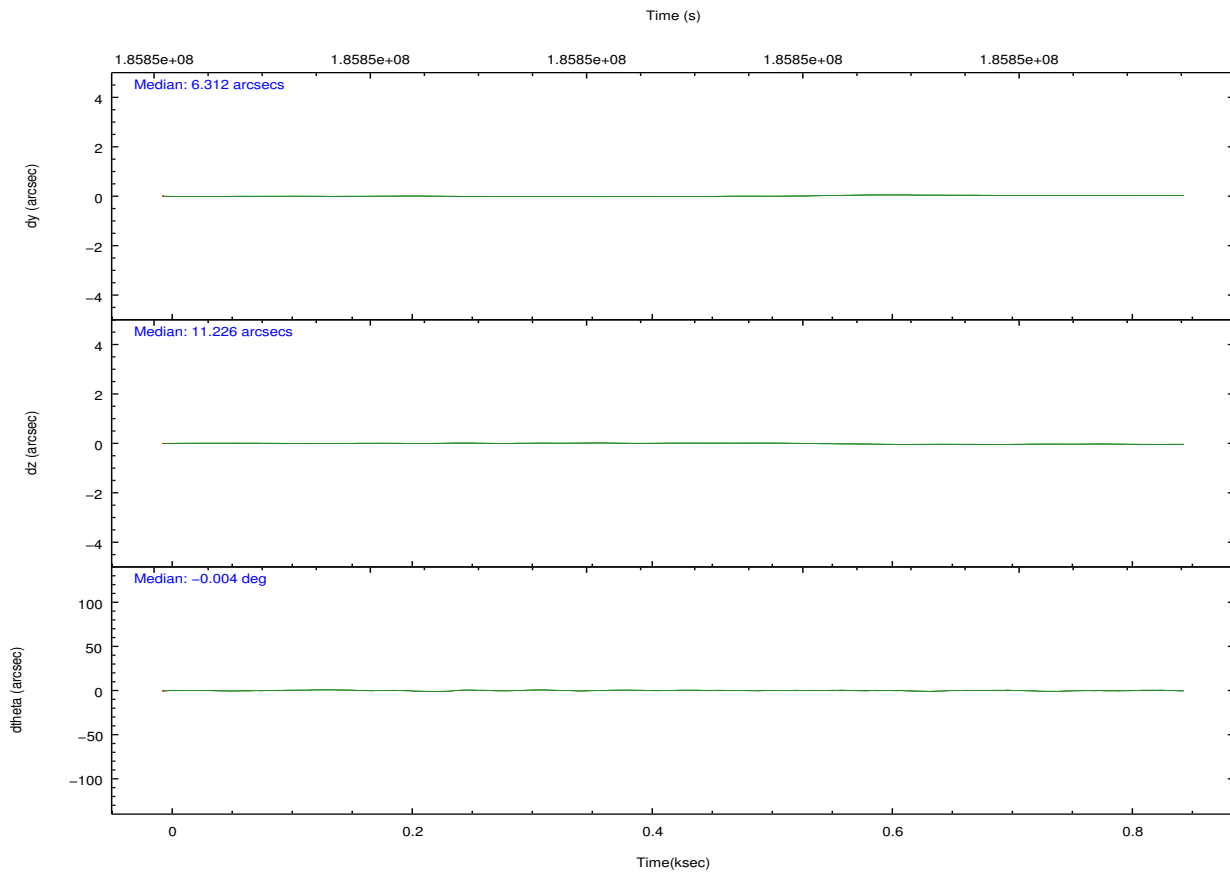
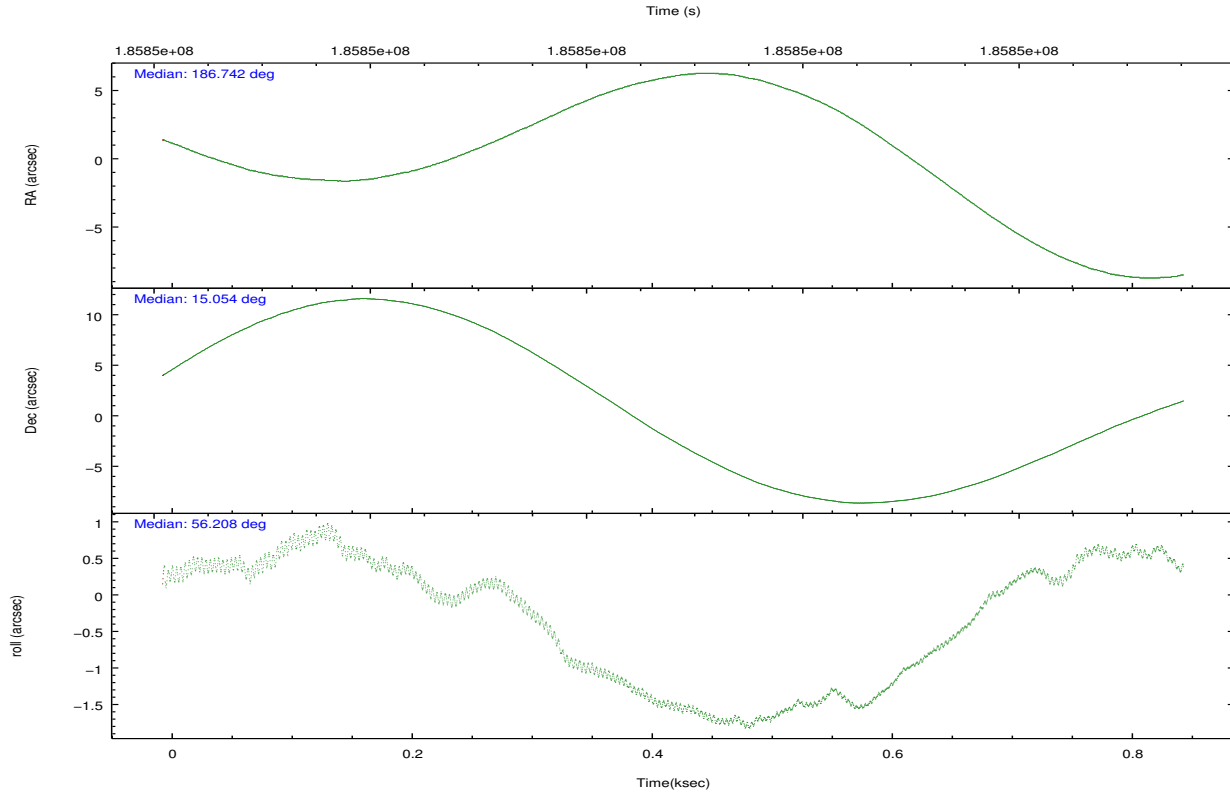
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	186.740458	186.7419097430633
[deg] Pointing Dec	15.026994	15.05419644868368
[deg] Pointing Roll	56.055322	56.21159110638494
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905
[mm] SIM defocus	0.001444942264670179	0.001444942264670179
[mm] SIM translation stage pos	-190.1400660498719	-190.1400660498719
[mm] SIM translation stage offset	0.007542945904702947	0.007542945904702947
[s] Observation start time (MET)	185850647.184000	185850647.184
Observation start date	2003-11-22T01:09:43	2003-11-22T01:10:47
[s] Observation end time (MET)	185851499.000000	185851499
Observation end date	2003-11-22T01:24:59	2003-11-22T01:24:59
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

2.3 Aspect



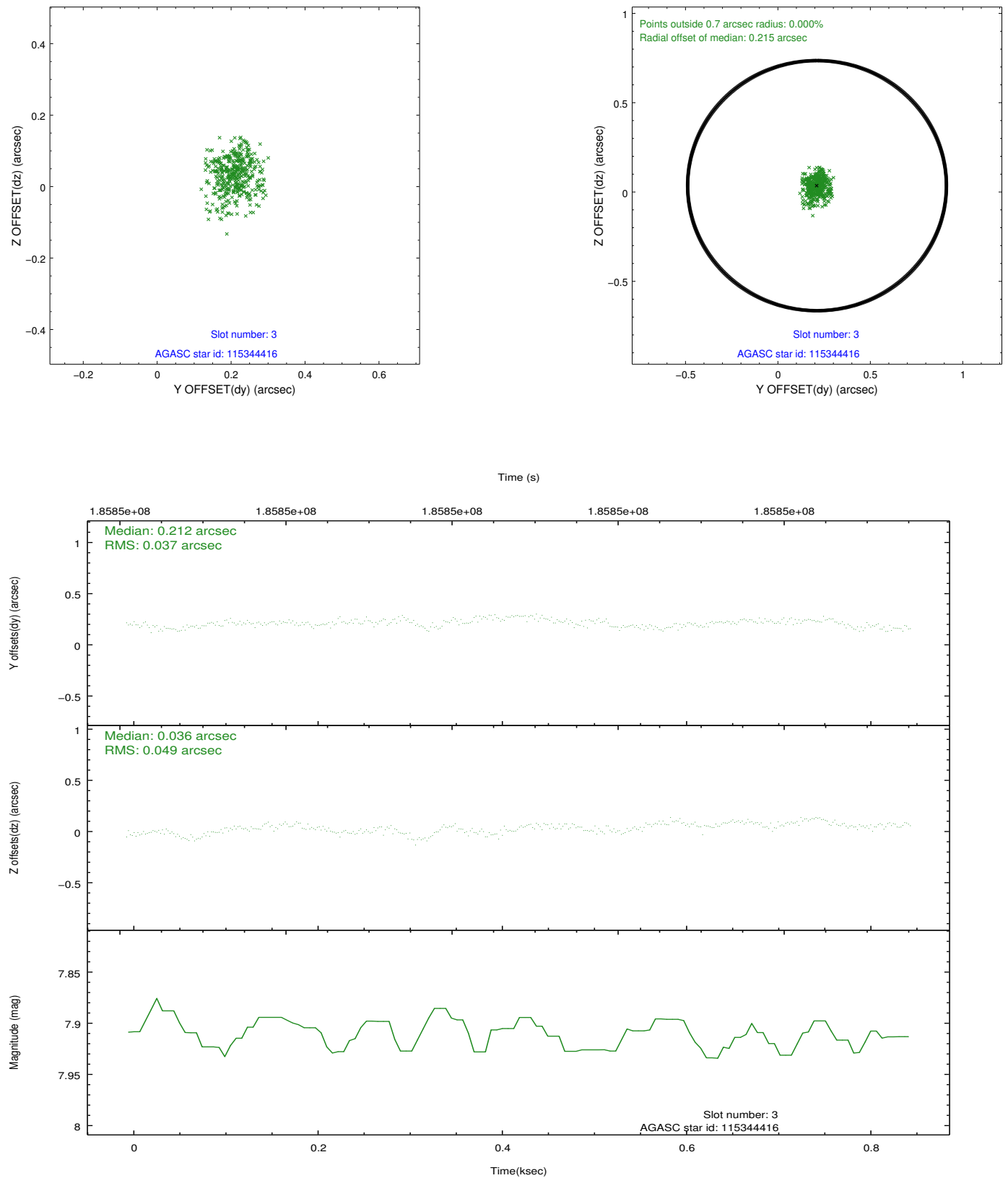


Slot Statistics

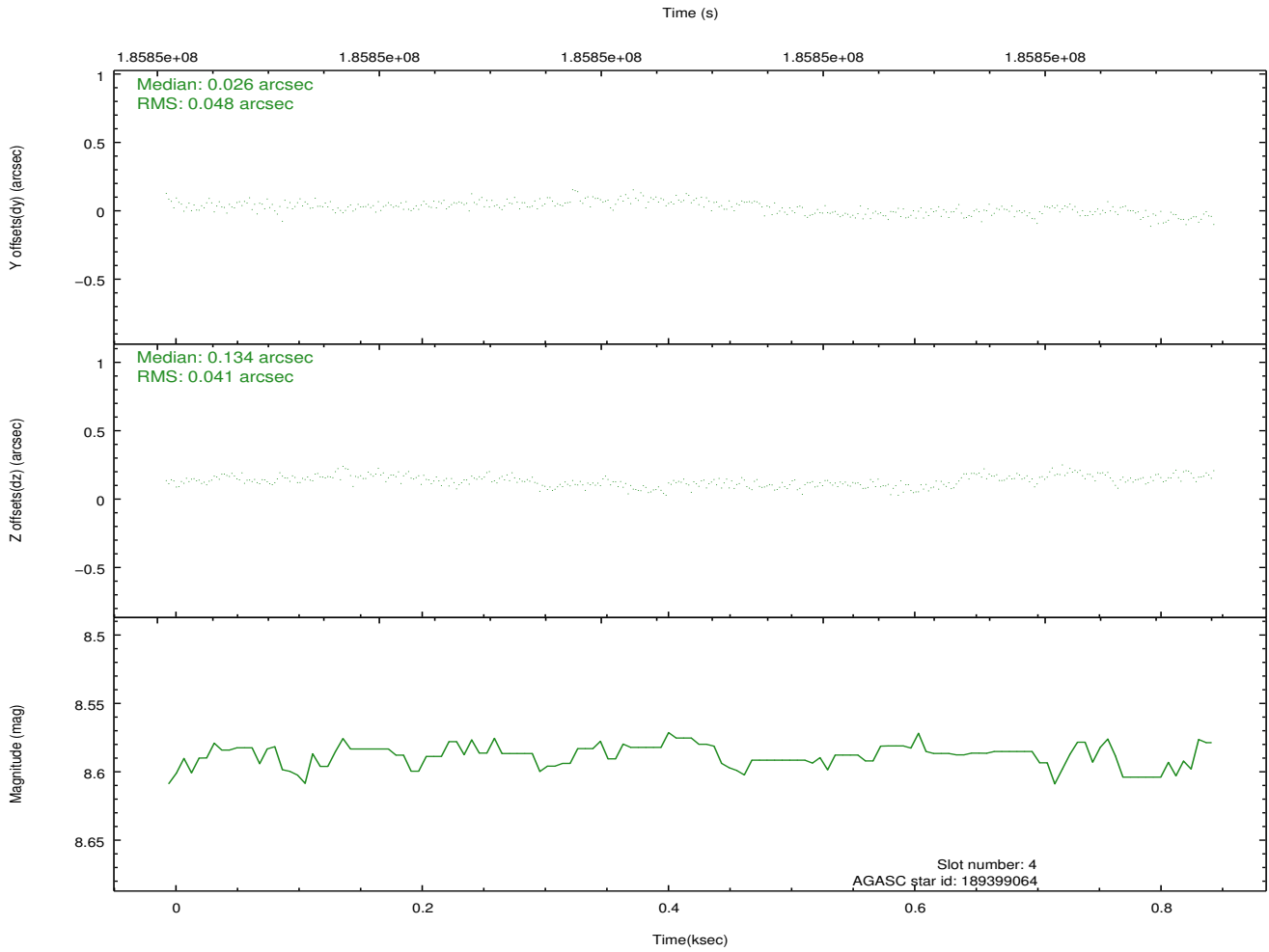
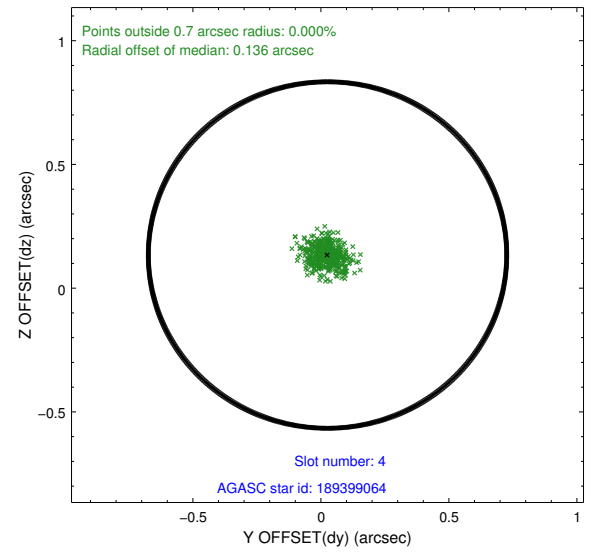
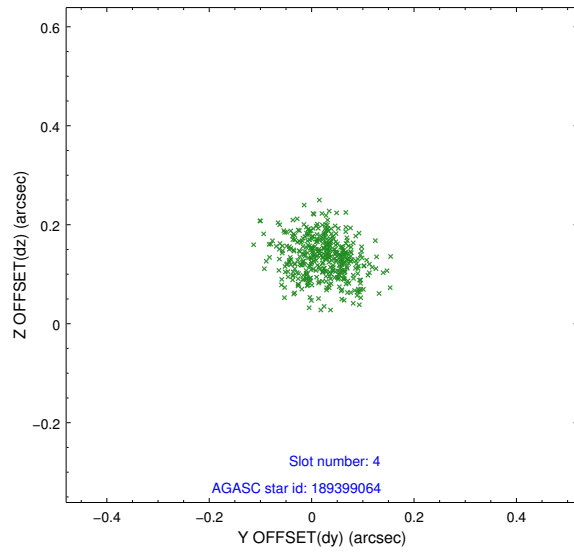
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	208	-0.050	-0.009	0.006	0.011	0.000000	0.000000	-759.09	-1732.51
1	FID	ACIS-S-4	7.21	208	0.055	0.026	0.005	0.008	0.000000	0.000000	2150.70	167.86
2	FID	ACIS-S-5	7.23	208	-0.037	-0.009	0.006	0.010	0.000000	0.000000	-1801.79	170.43
3	GUIDE	115344416	7.91	416	0.212	0.036	0.064	0.110	186.624628	14.572004	-1583.86	-580.62
4	GUIDE	189399064	8.59	416	0.026	0.134	0.066	0.108	187.048930	15.252486	1268.66	-437.25
5	GUIDE	189402384	8.79	416	-0.063	-0.060	0.083	0.138	187.044872	15.618538	2359.65	312.26
6	GUIDE	189403320	10.08	416	-0.050	0.106	0.205	0.333	186.650538	15.117423	101.27	441.07
7	GUIDE	189414472	6.59	415	-0.111	-0.205	0.055	0.100	186.513657	15.863941	2061.43	2334.45

2.4 Star Slots

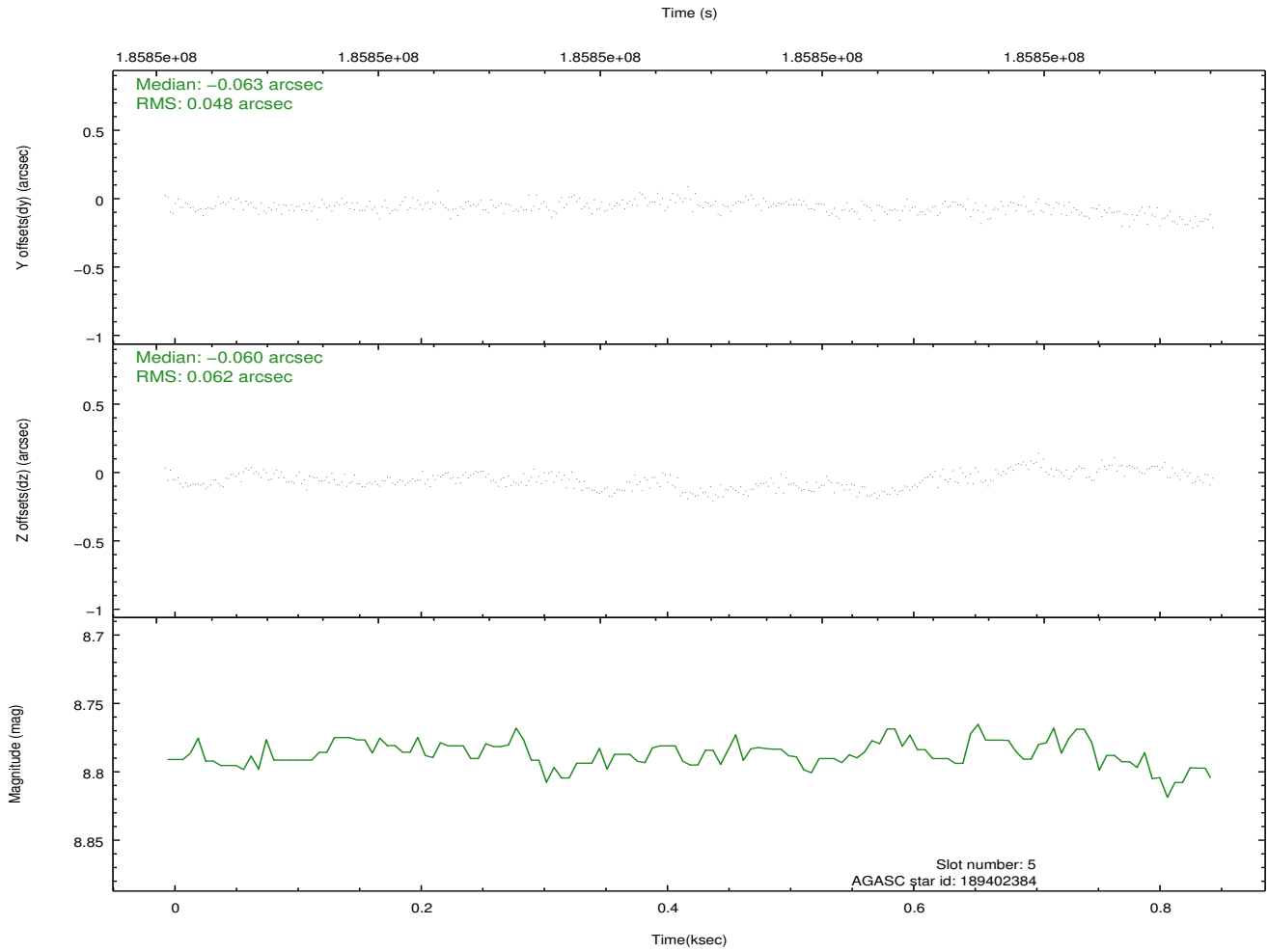
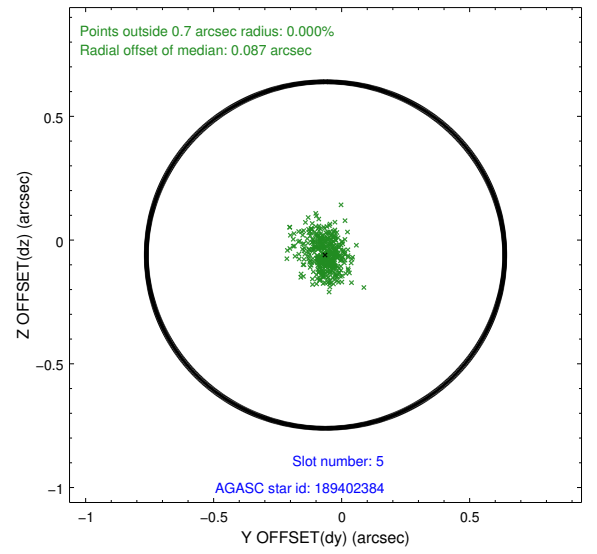
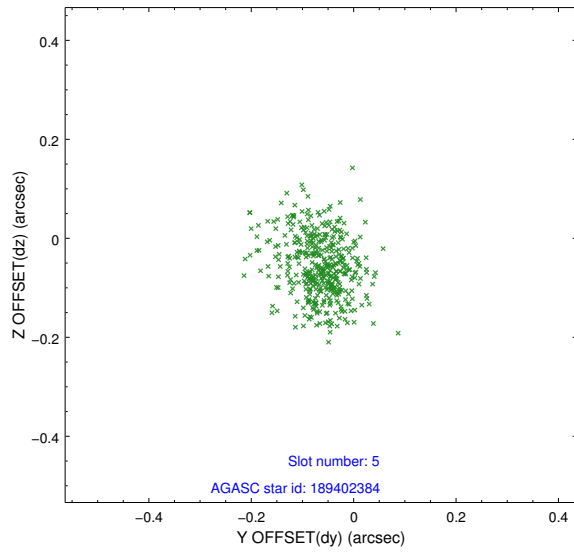
2.4.1 Slot 3



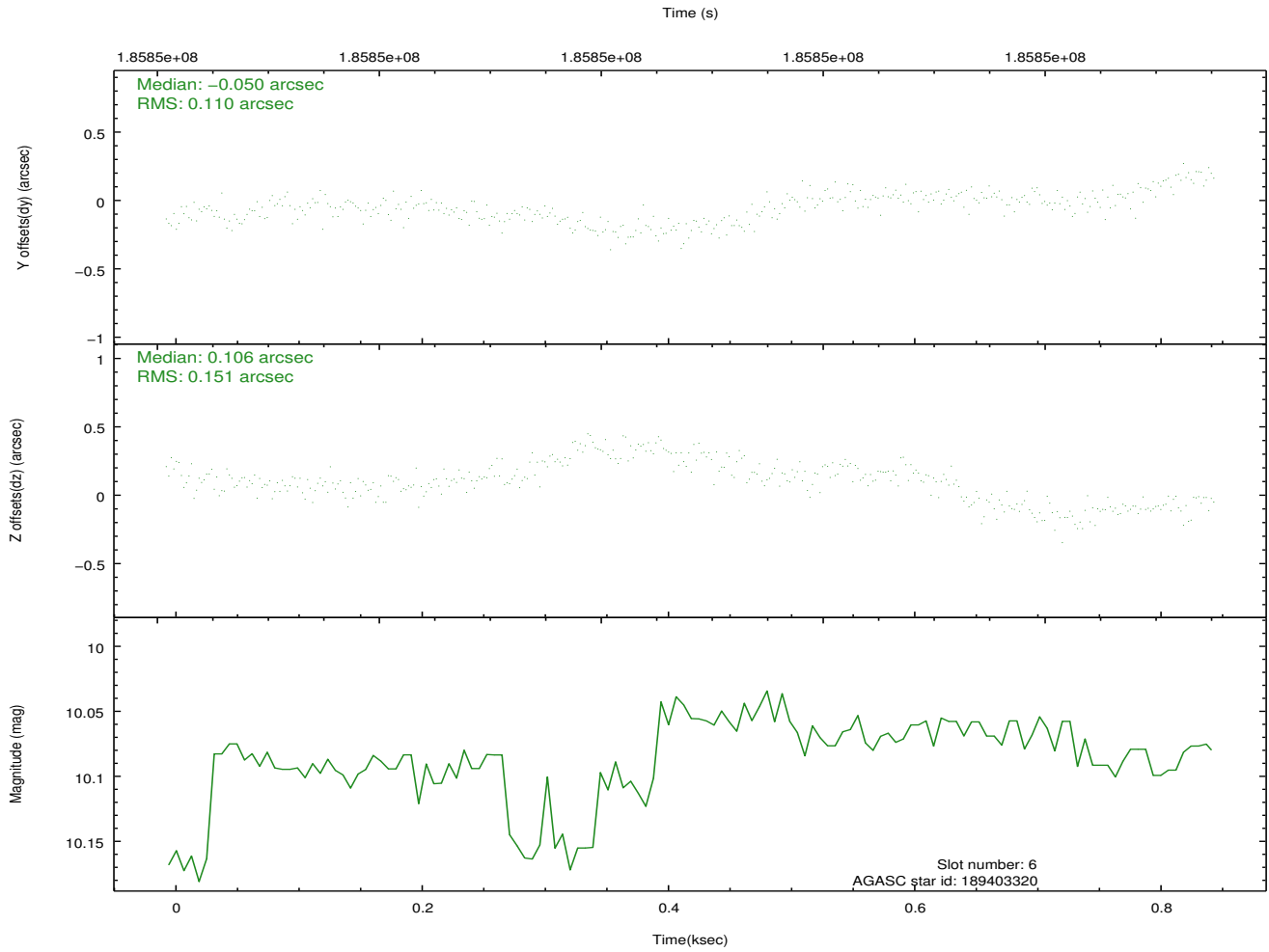
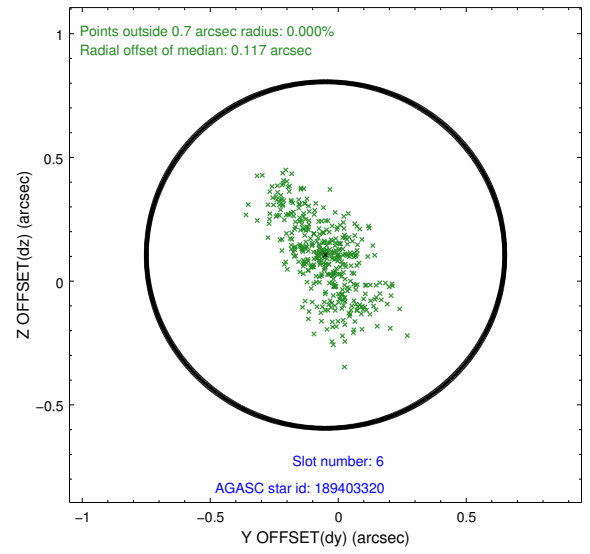
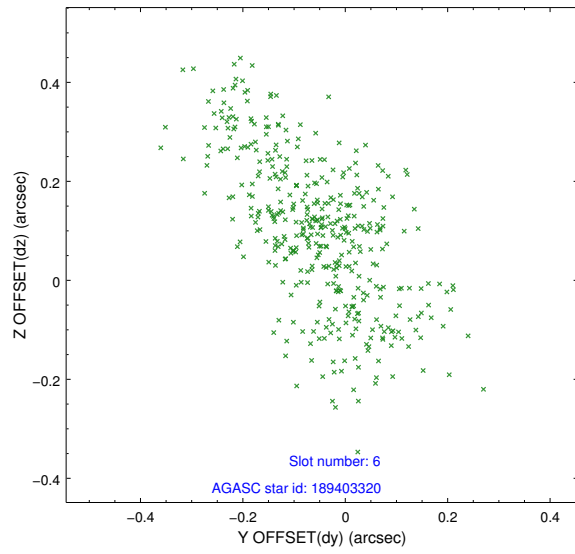
2.4.2 Slot 4



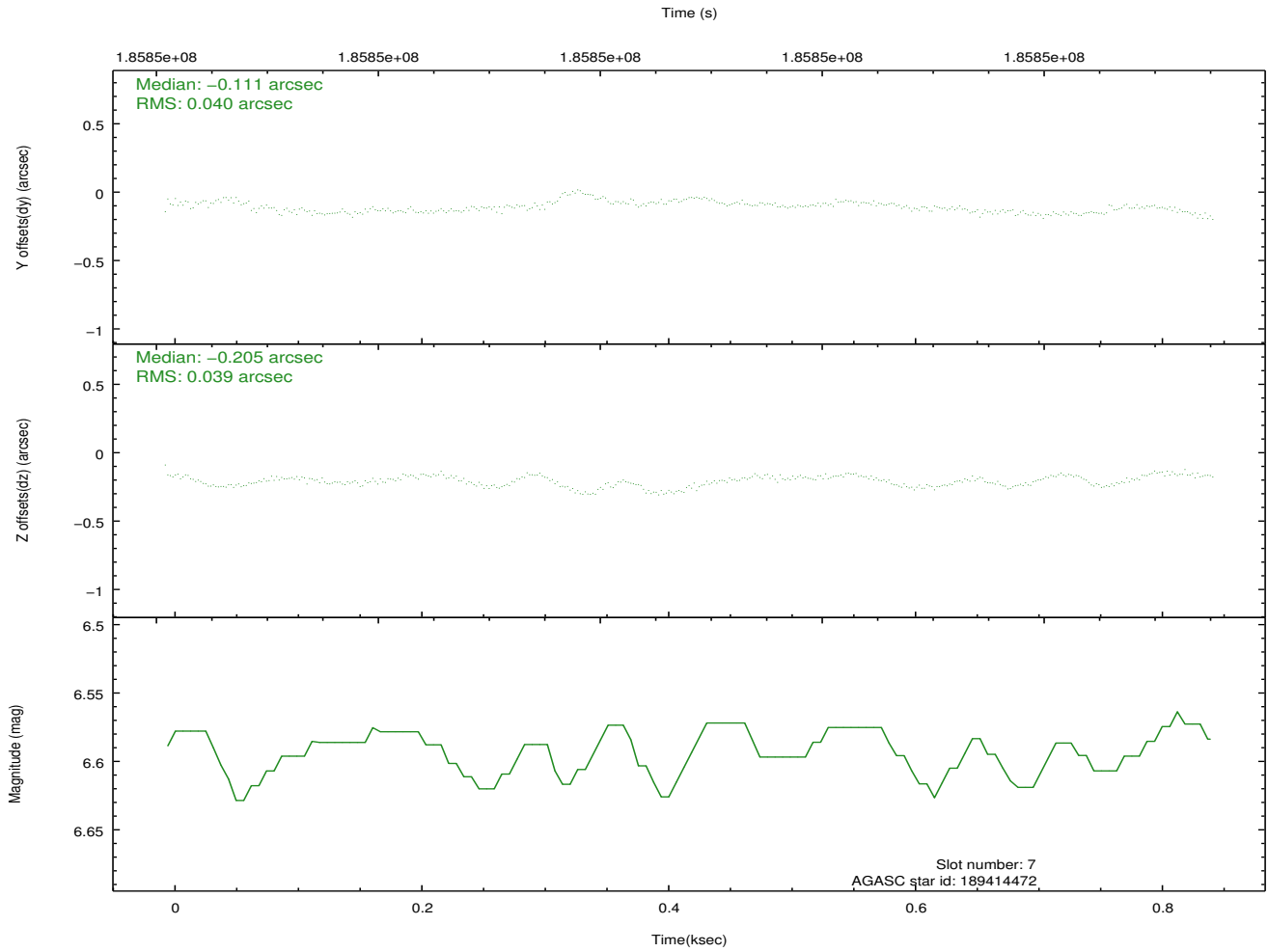
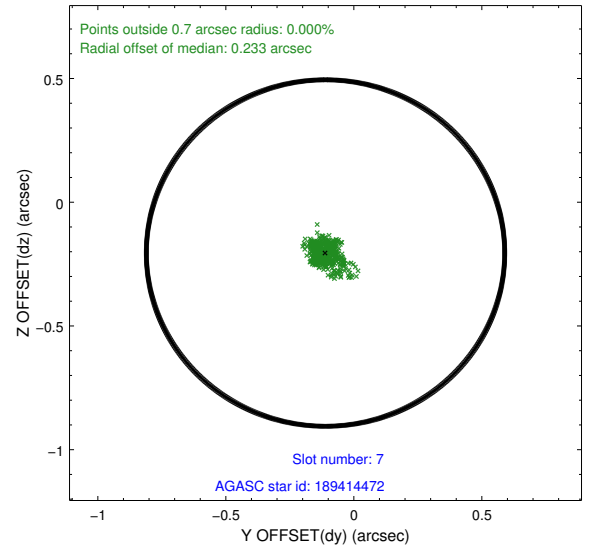
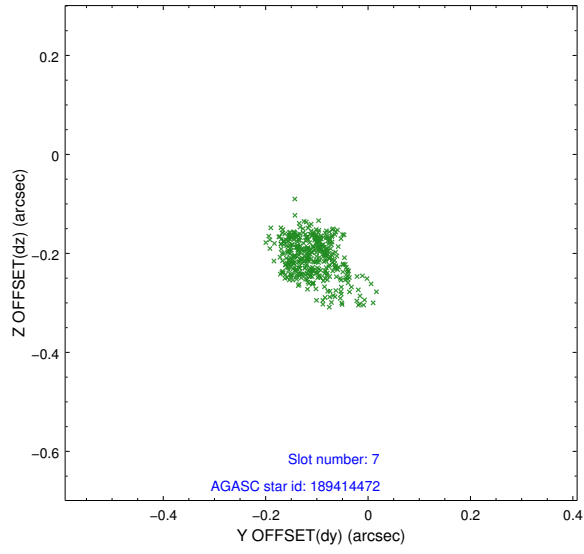
2.4.3 Slot 5



2.4.4 Slot 6

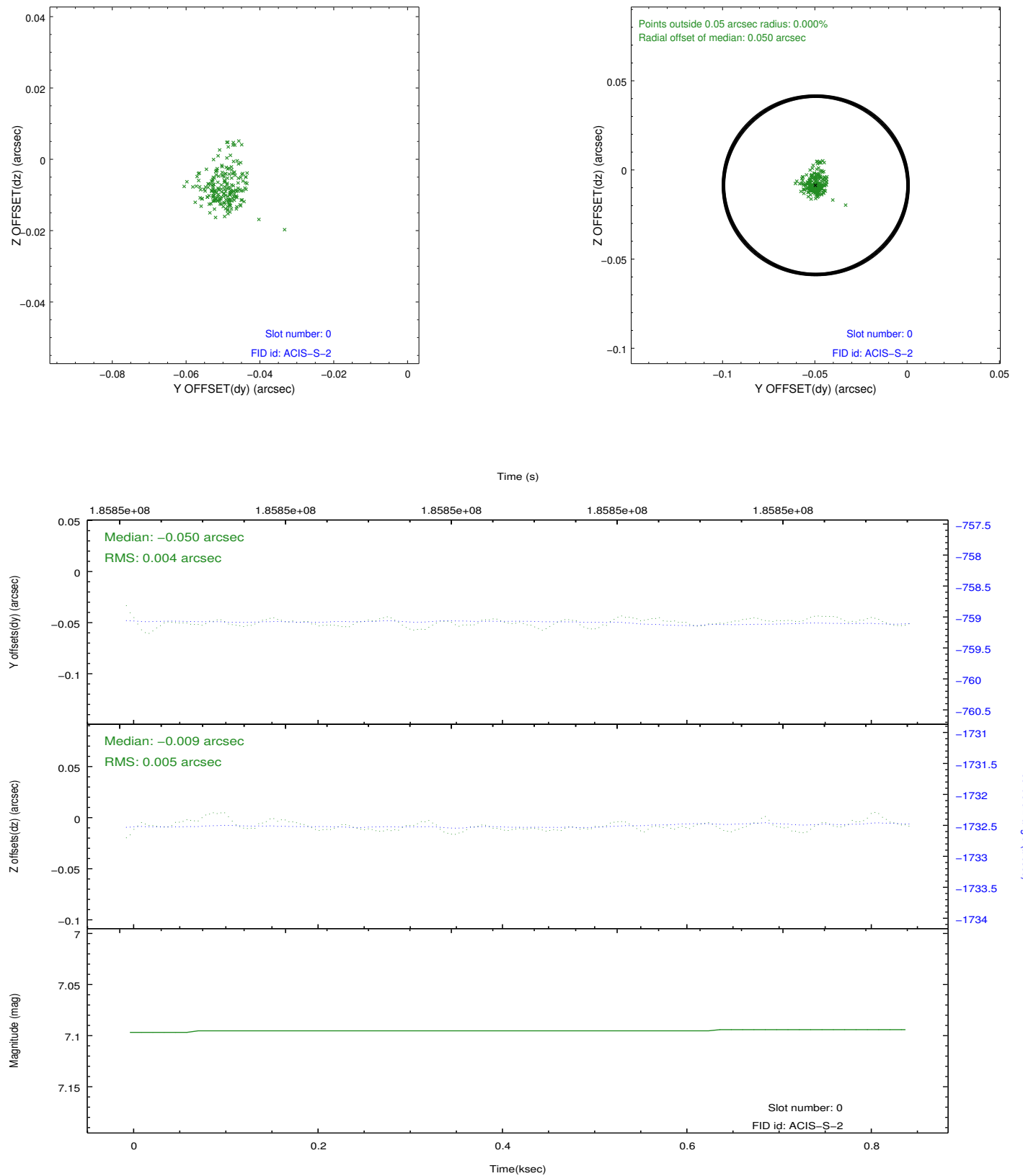


2.4.5 Slot 7

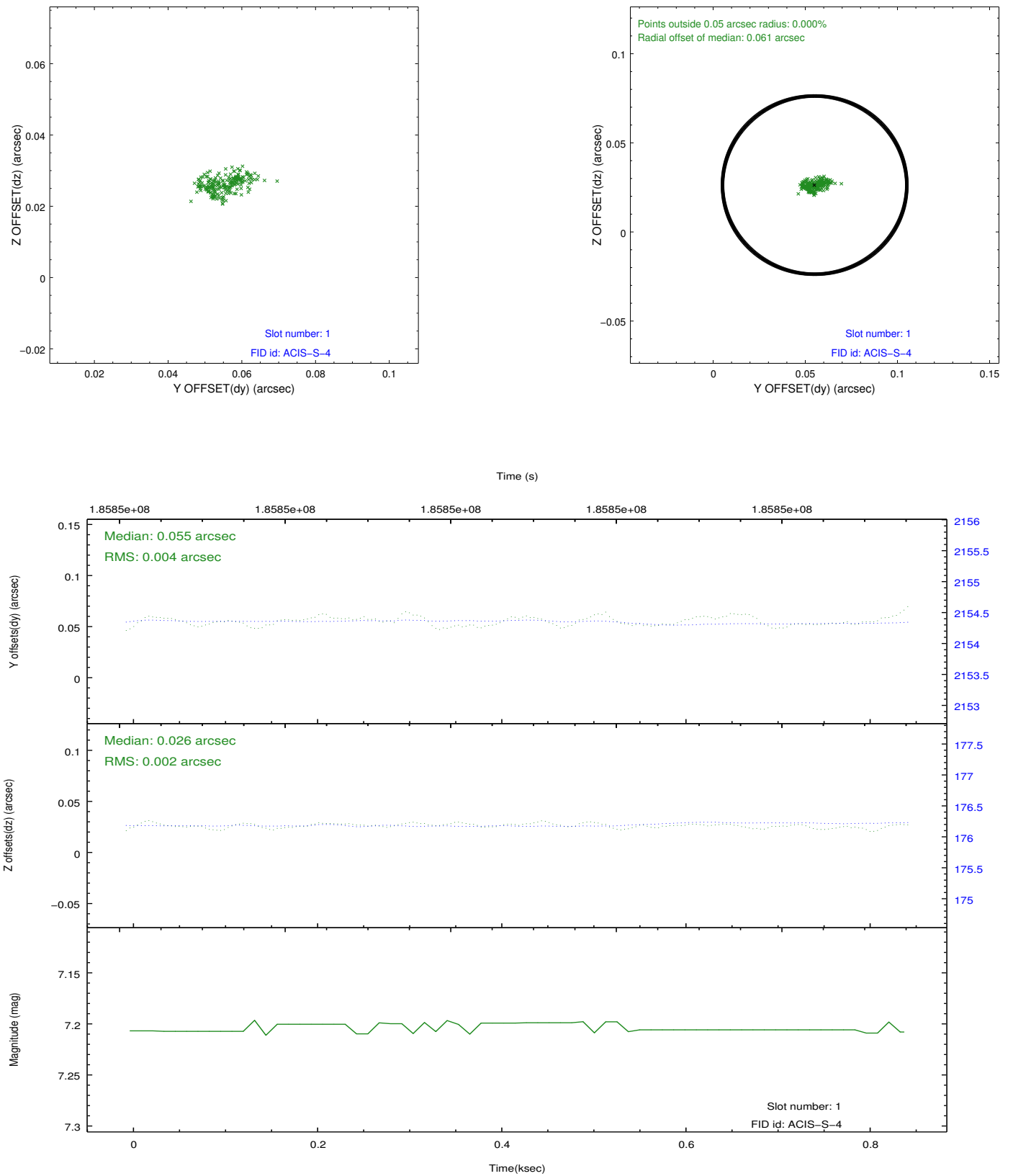


2.5 FID Slots

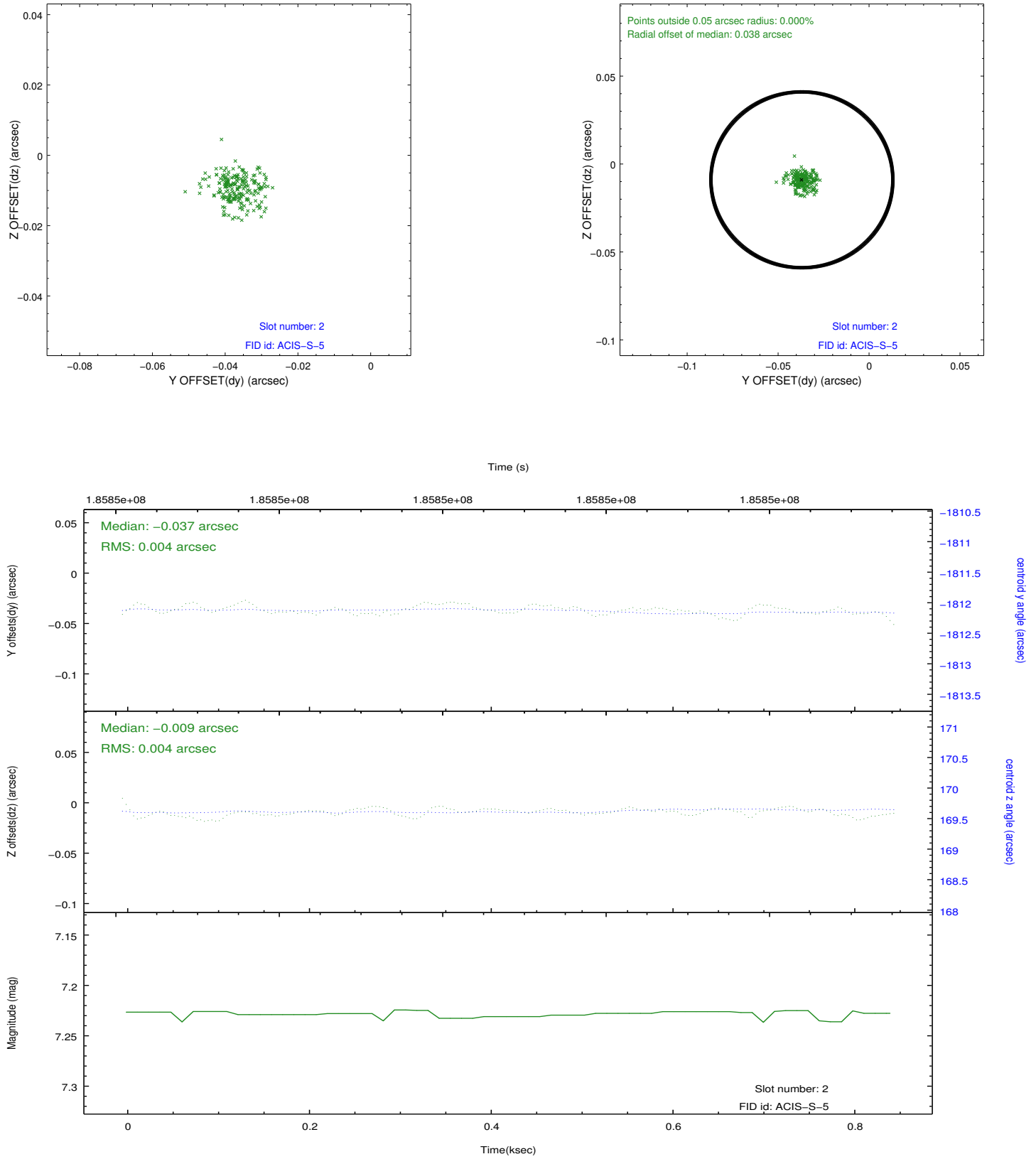
2.5.1 Slot 0



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	0.902

A.2 Comments

Charge time for this ObsId remains at original value of 0.902 ksec, although with the current processing the charge time would have been 0.77 ksec.

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This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 2003:326:01:24:54. 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.