

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15575 - L2 Version 2
Chandra X-Ray Center

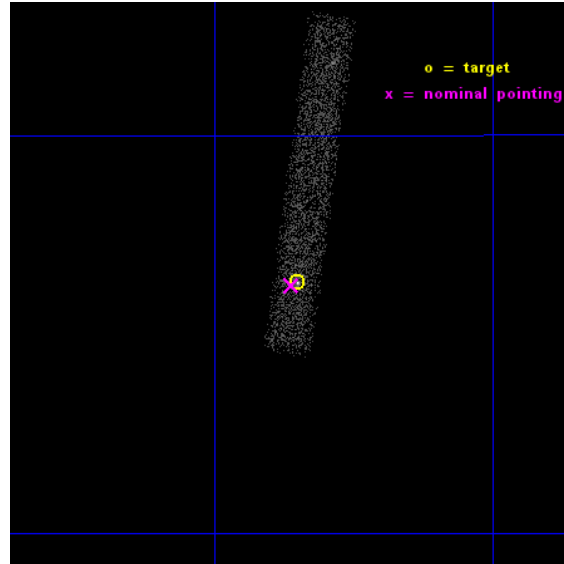
L2 Processing Date : Nov 29 2014

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1 Front

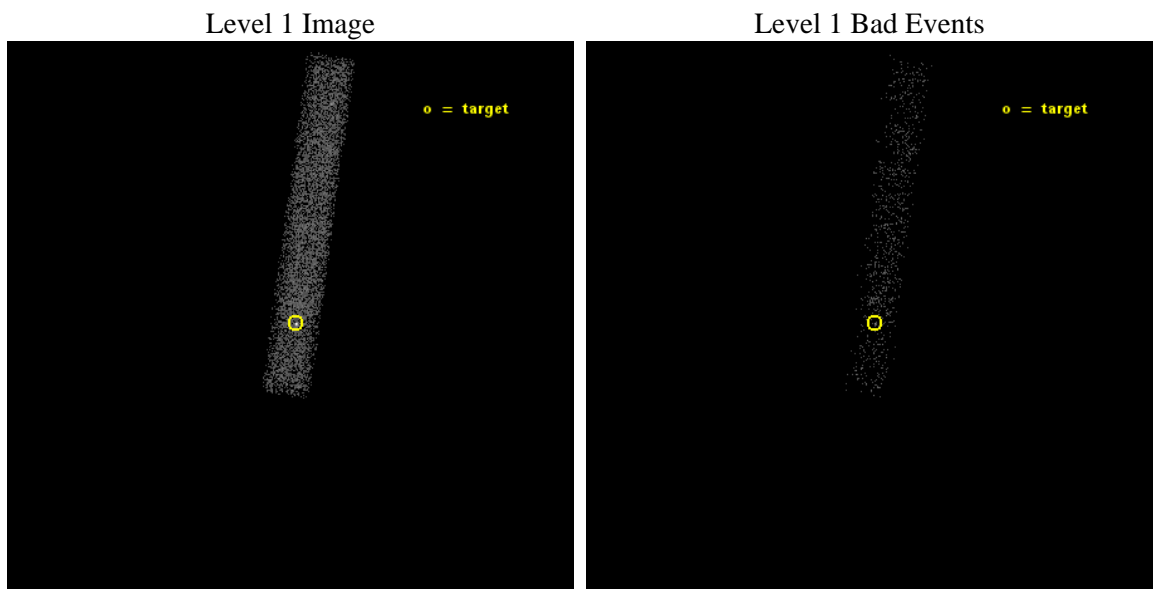
seq_num	702624	Sequence number
obs_id	15575	Observation id
title	CHANDRA SURVEY OF DUAL ACTIVATION IN HARD X-RAY SELECTED MERGING AGN HOSTS	Proposal title
observer	Dr. Richard Mushotzky	Principal investigator
object	Mrk 975	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	18.4625	Observer's specified target RA [deg]
dec_targ	13.271722	Observer's specified target Dec [deg]
ra_nom	18.465368760055	Nominal RA [deg]
dec_nom	13.270494541896	Nominal Dec [deg]
roll_nom	278.1559595872	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10068.799399853	Sum of GTIs [s]
livetime	9131.8695808569	Livetime [s]
ontime7	10068.799399853	Sum of GTIs [s]
l2events	5599	Number of level 2 events



2 OBI

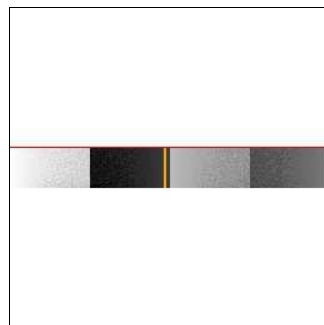
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10068.799399853	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	10068.799399853	Sum of GTIs [s]
date	2014-11-29T09:39:47	Date and time of file creation	l1events	10572	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

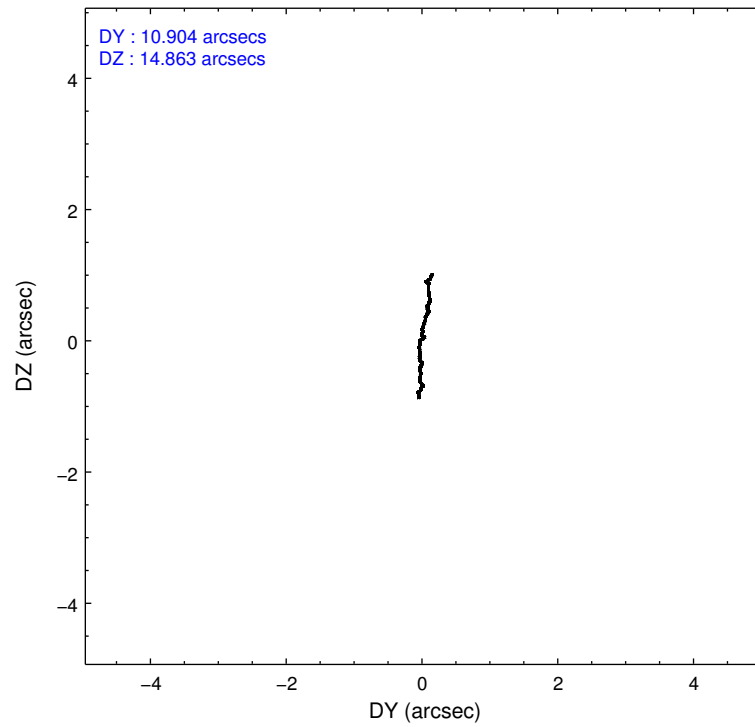
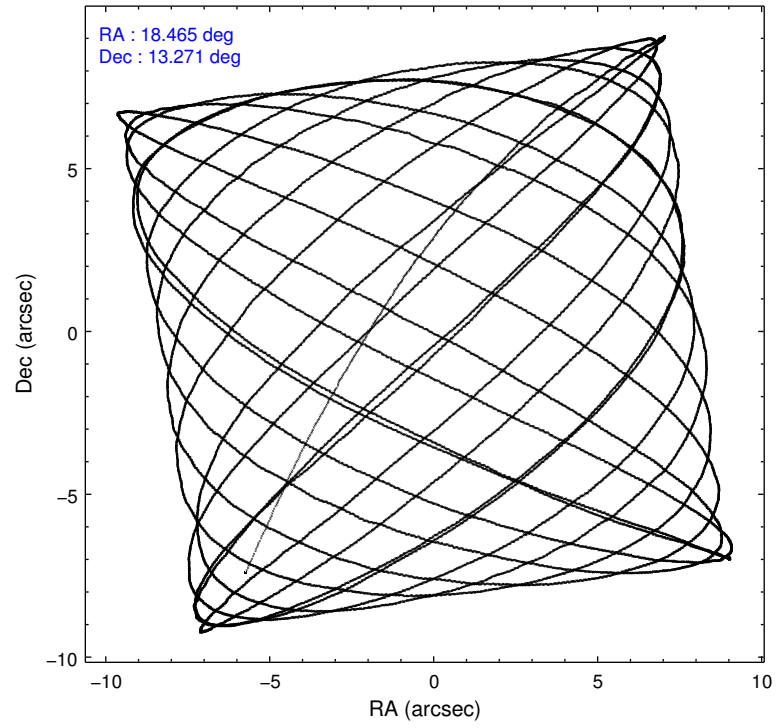
	ccd 7
level 1 events	10572
rejected events	4743
rejected %	44%

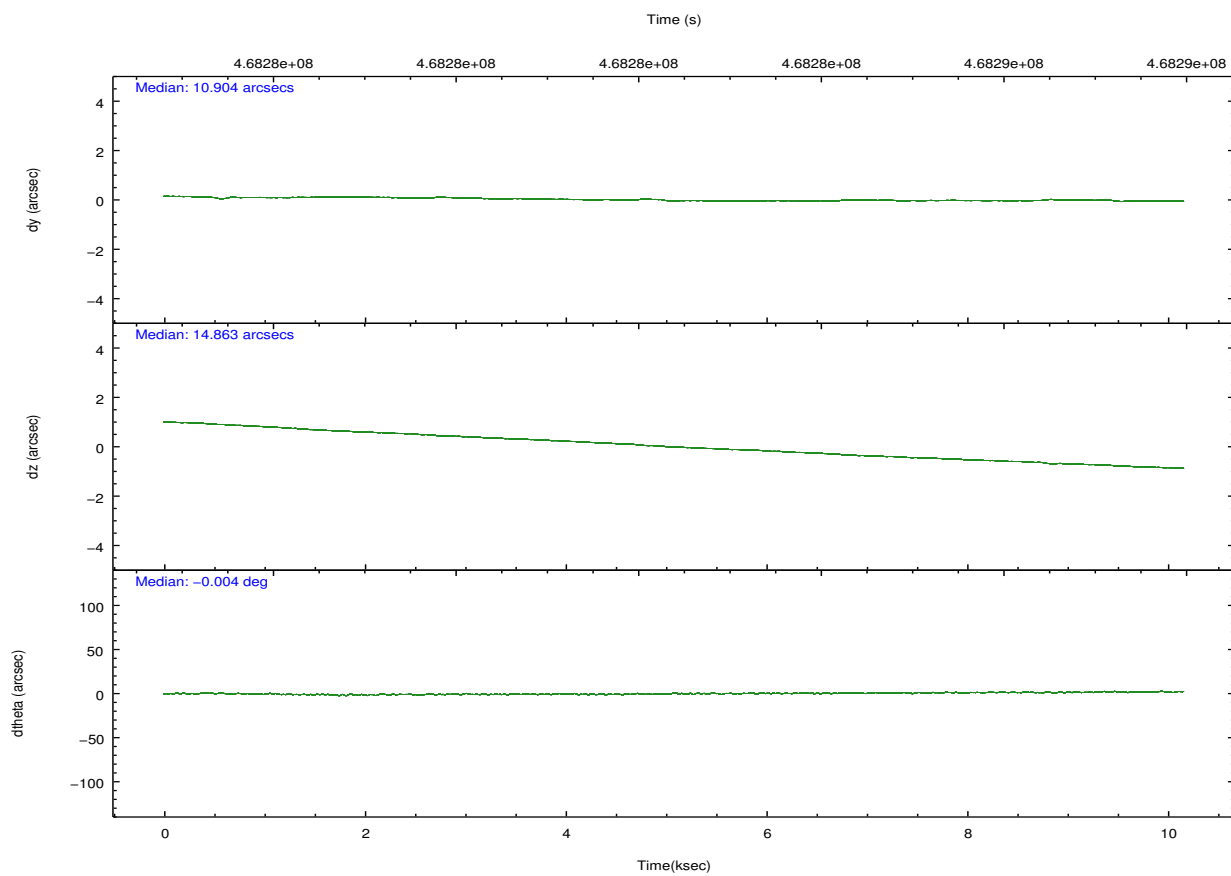
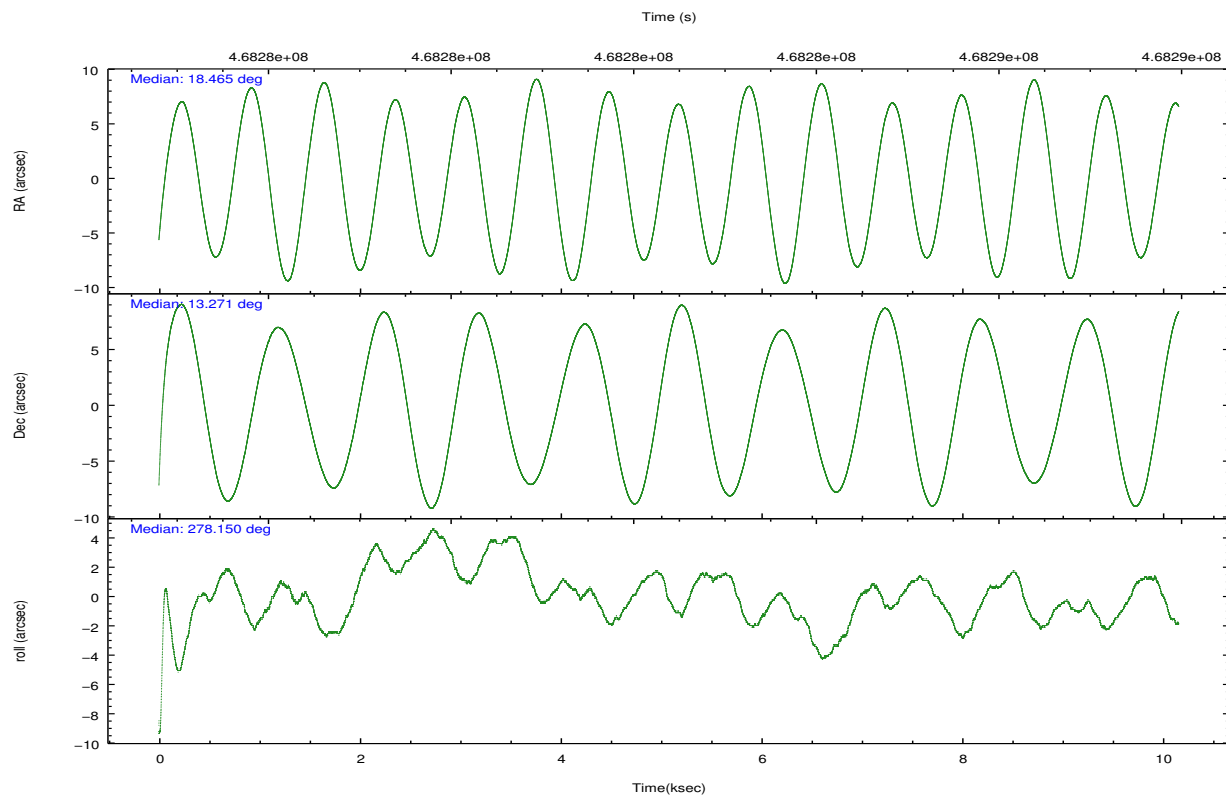
	ccd 7
grade 0 events	807
	7%
grade 1 events	10
	0%
grade 2 events	1160
	10%
grade 3 events	744
	7%
grade 4 events	732
	6%
grade 5 events	1028
	9%
grade 6 events	2386
	22%
grade 7 events	3705
	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	18.447678	18.46536876005473	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	13.291738	13.27049454189593	Subarray start row	449	449
[deg] Pointing Roll	278.003404	278.1559595871967	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	468277463.184000	468276104.36634			
Observation start date	2012-11-02T21:03:16	2012-11-02T20:41:44			
[s] Observation end time (MET)	468287463.184000	468288384.892			
Observation end date	2012-11-02T23:49:56	2012-11-03T00:06:24			
Read mode	TIMED	TIMED			

2.3 Aspect



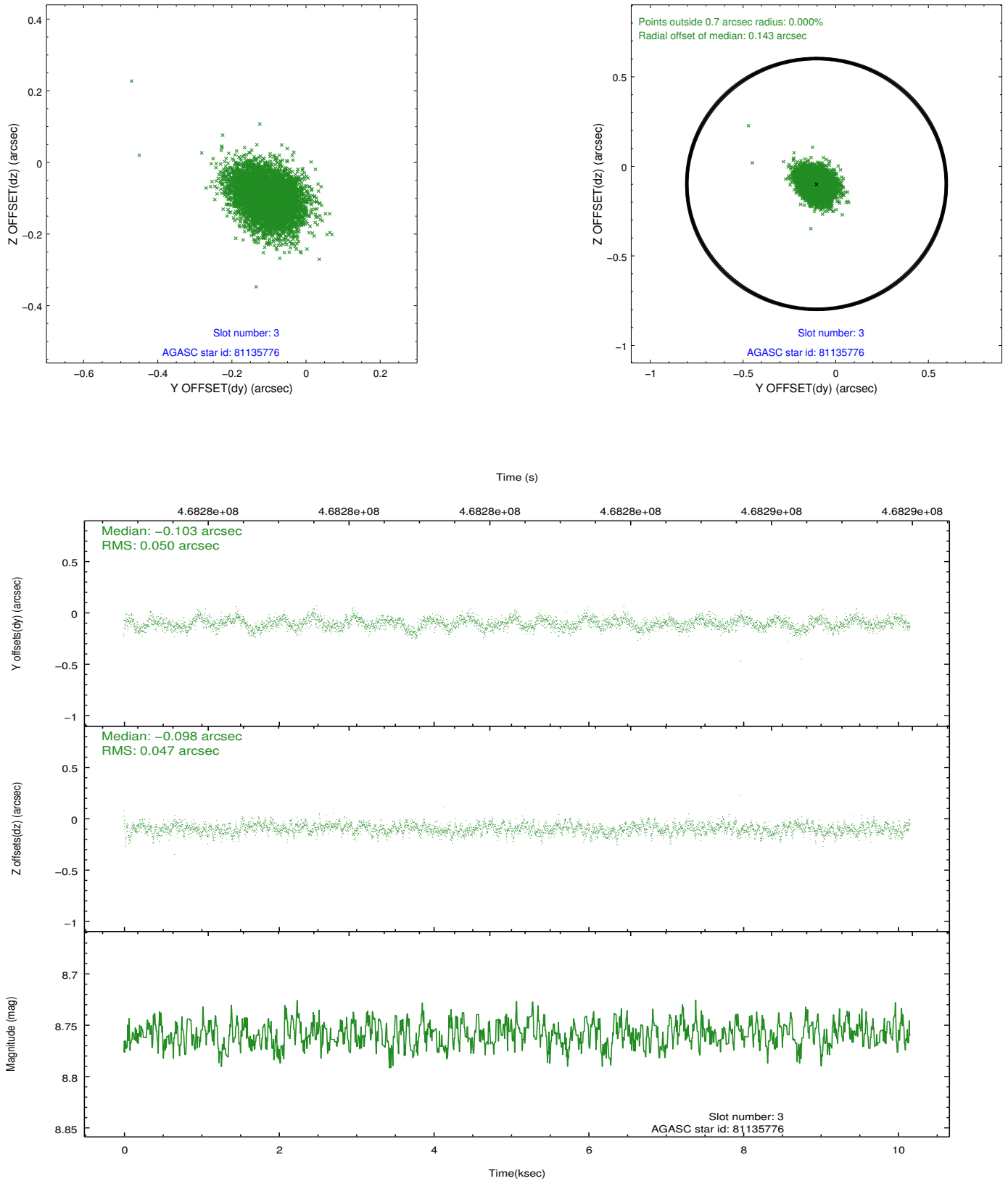


Slot Statistics

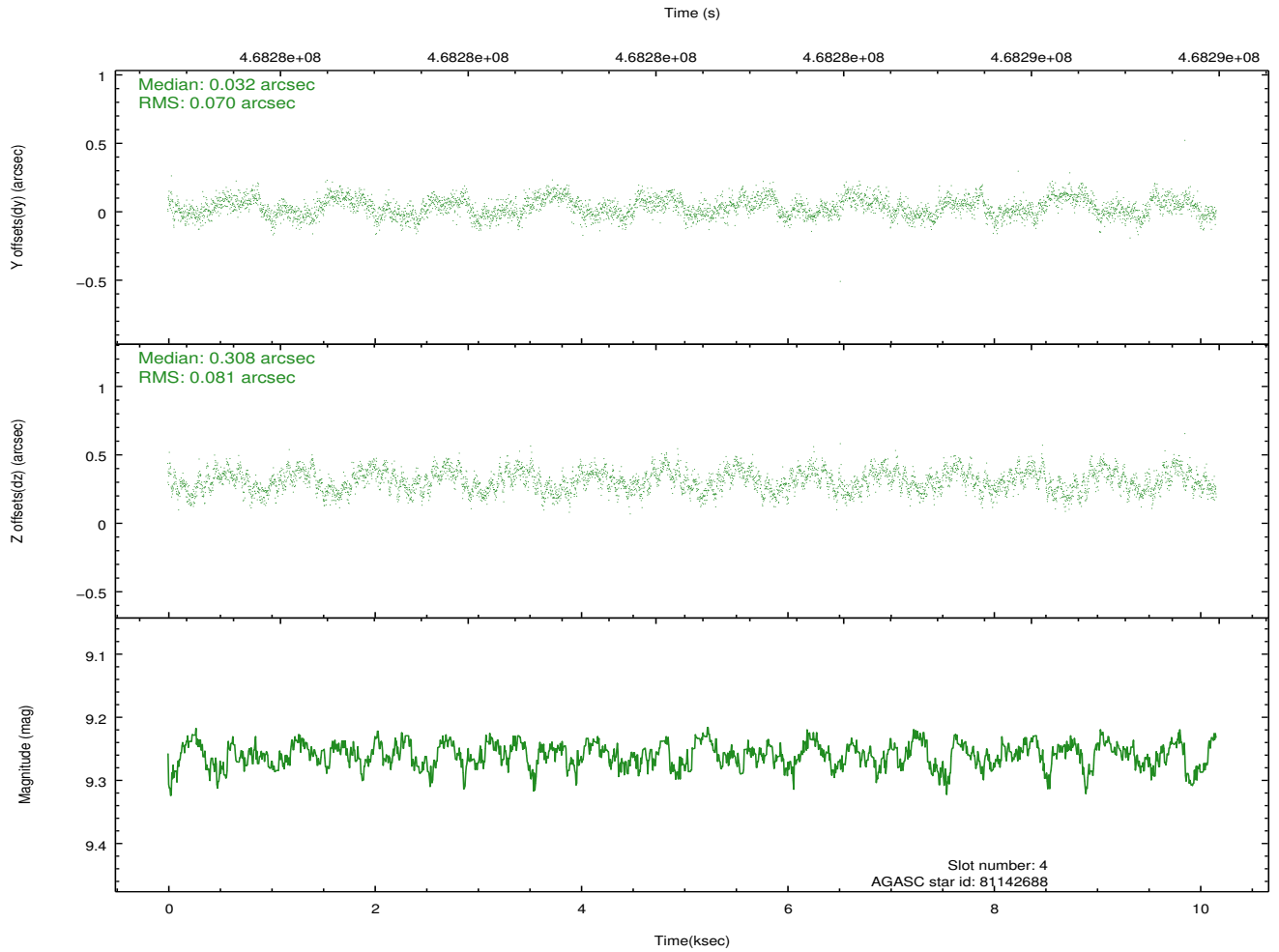
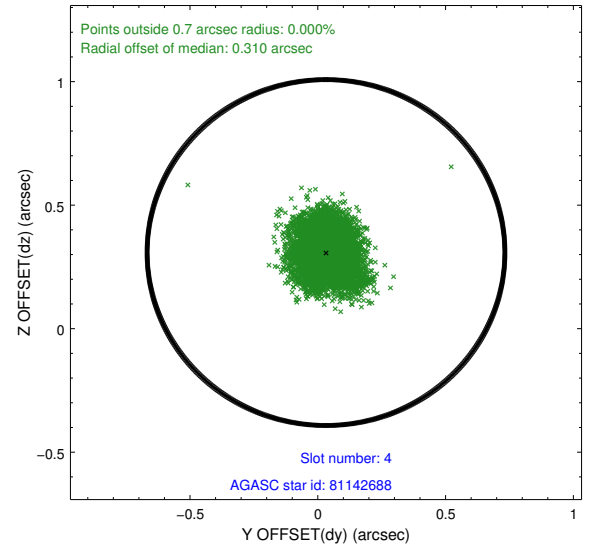
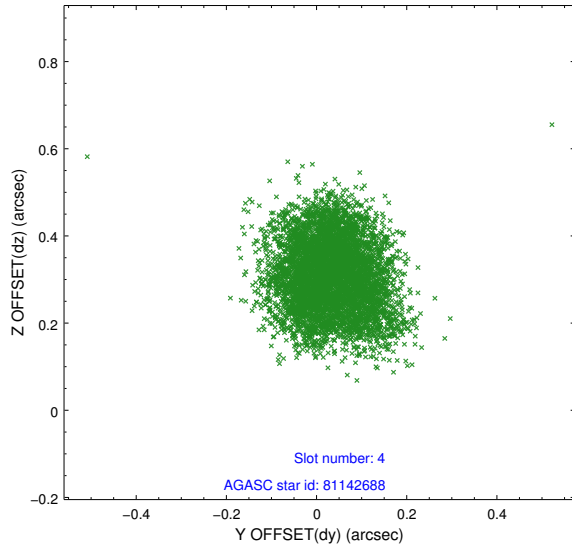
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	2478	-0.061	-0.007	0.013	0.022	0.000000	0.000000	-763.85	-1736.22
1	FID		ACIS-S-4	7.01	2478	0.157	0.032	0.006	0.012	0.000000	0.000000	2149.41	171.76
2	FID		ACIS-S-5	7.03	2477	-0.128	-0.016	0.011	0.020	0.000000	0.000000	-1816.09	165.98
3	GUIDE	used	81135776	8.76	4955	-0.103	-0.098	0.073	0.118	18.112609	13.039203	736.23	-1289.93
4	GUIDE	used	81142688	9.26	4944	0.032	0.308	0.116	0.176	18.768829	13.065898	961.58	1002.56
5	GUIDE	used	81135696	8.78	4953	-0.024	-0.137	0.089	0.140	17.940320	13.876716	-2333.51	-1462.46
6	GUIDE	used	81142832	9.39	4954	-0.017	0.175	0.093	0.148	18.411615	13.931386	-2298.05	195.73
7	GUIDE	used	81139472	8.10	4956	0.121	-0.243	0.077	0.120	19.044795	13.735421	-1293.81	2290.53

2.4 Star Slots

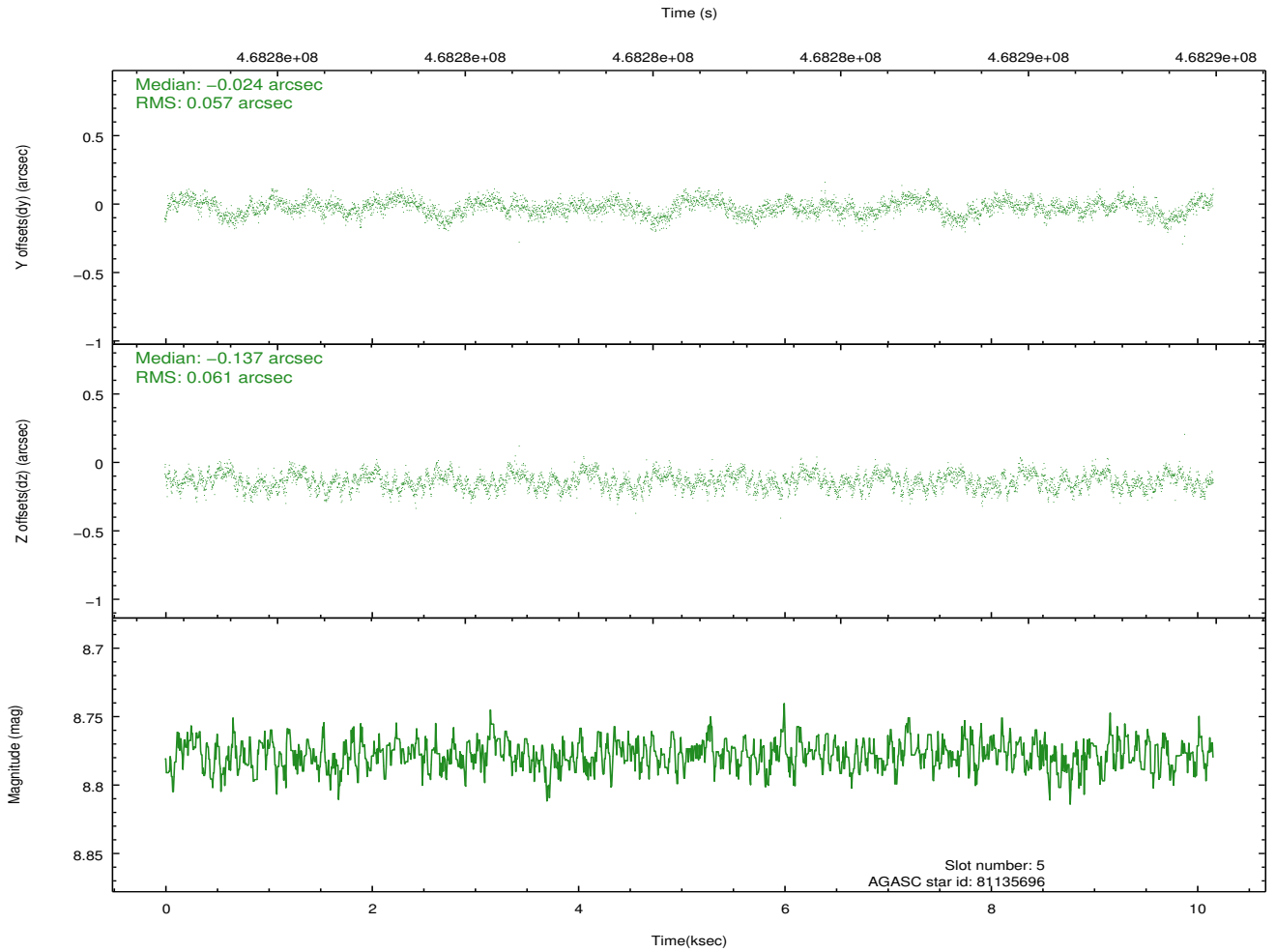
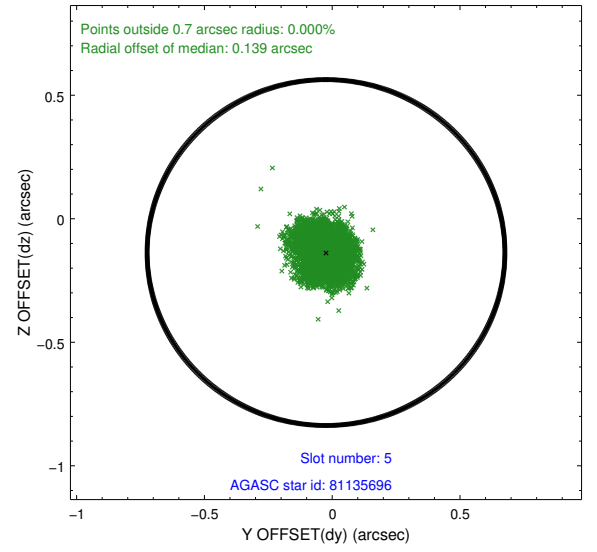
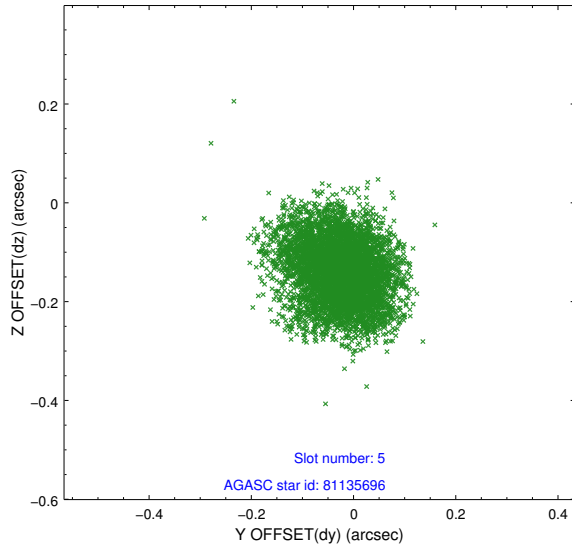
2.4.1 Slot 3



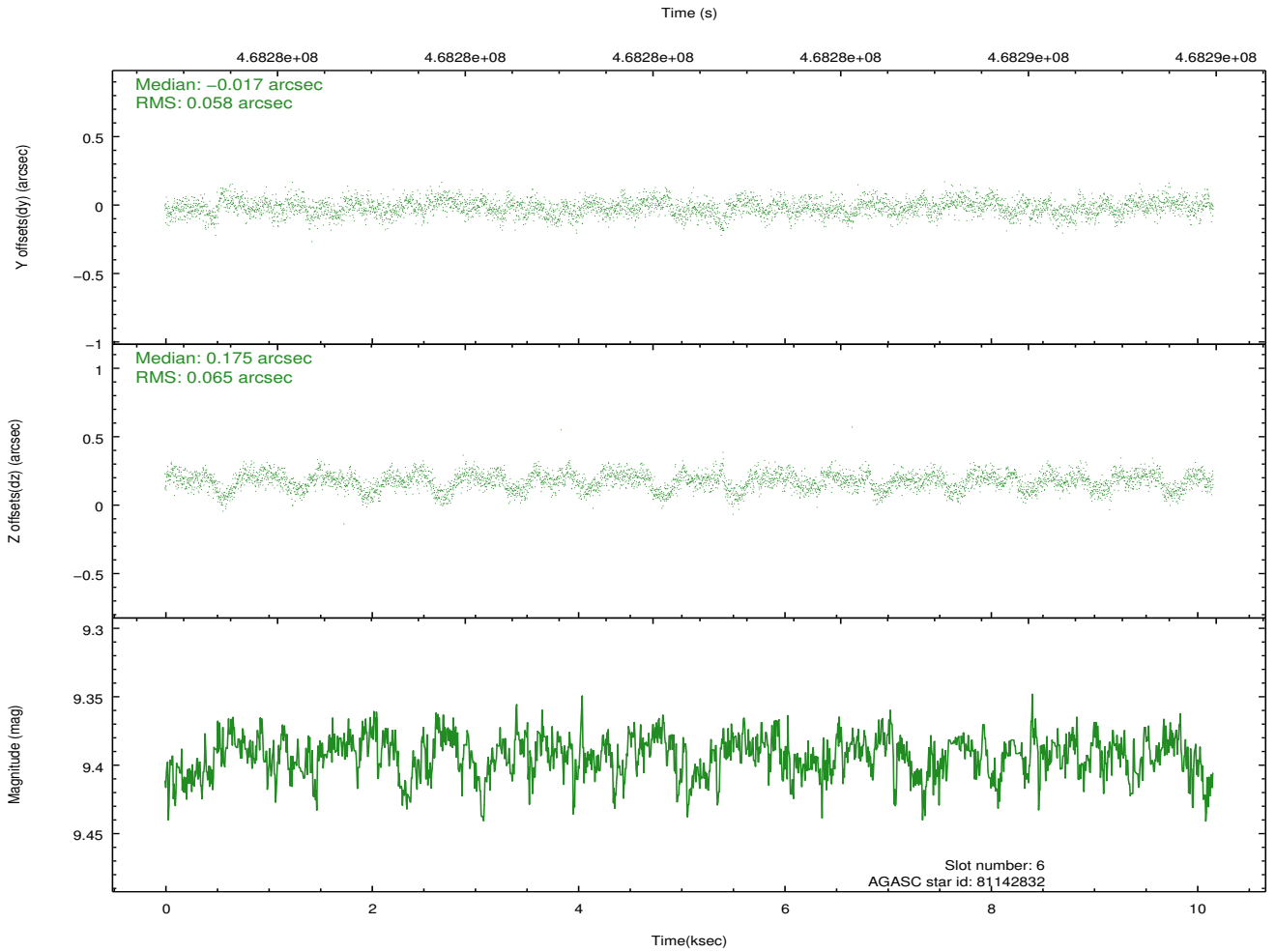
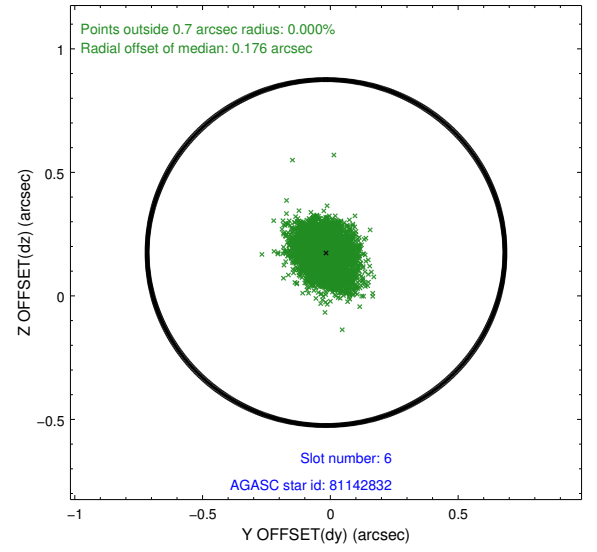
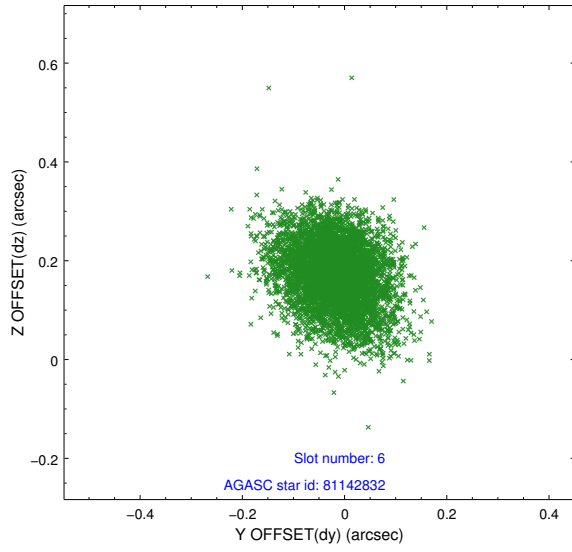
2.4.2 Slot 4



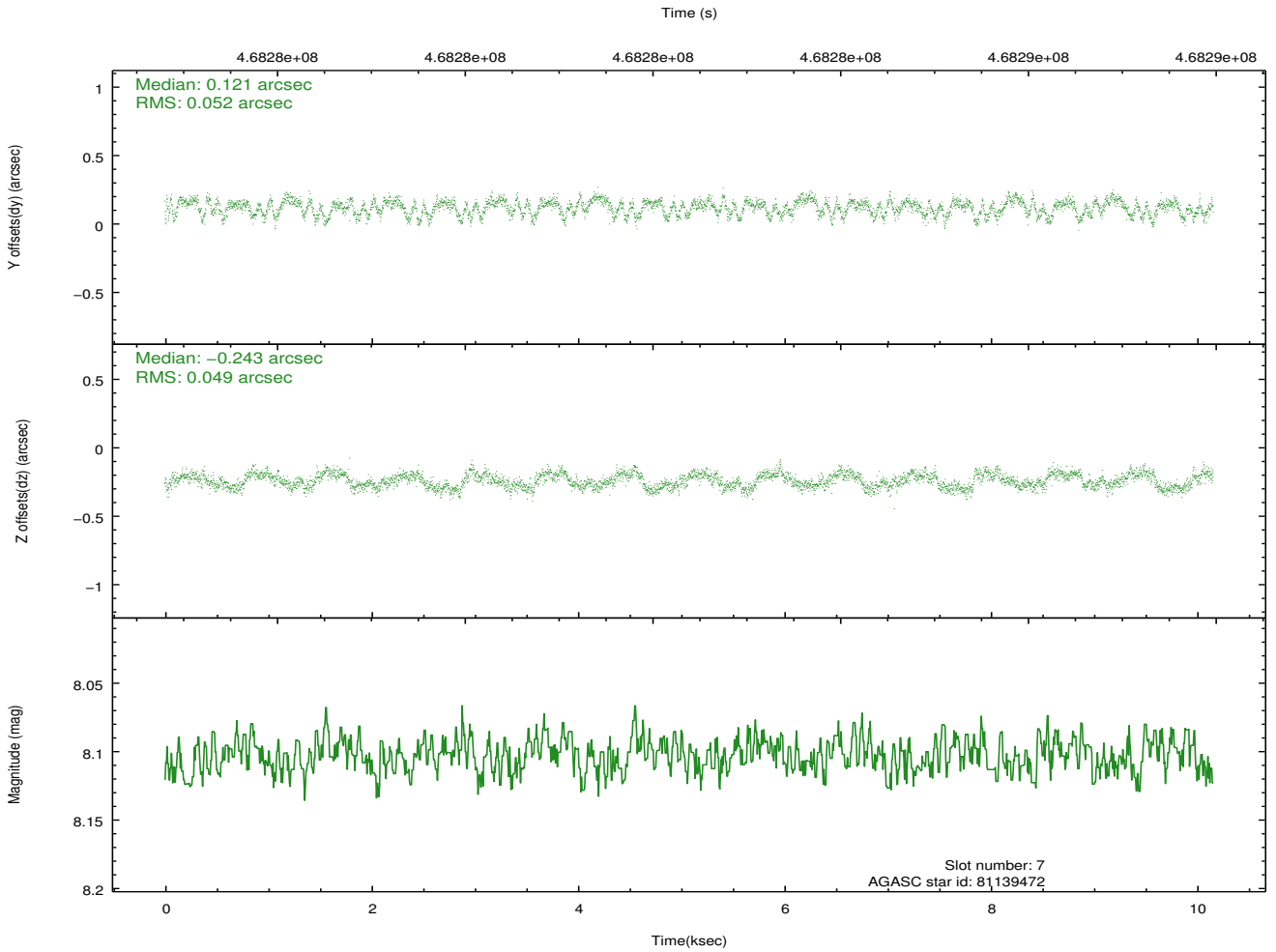
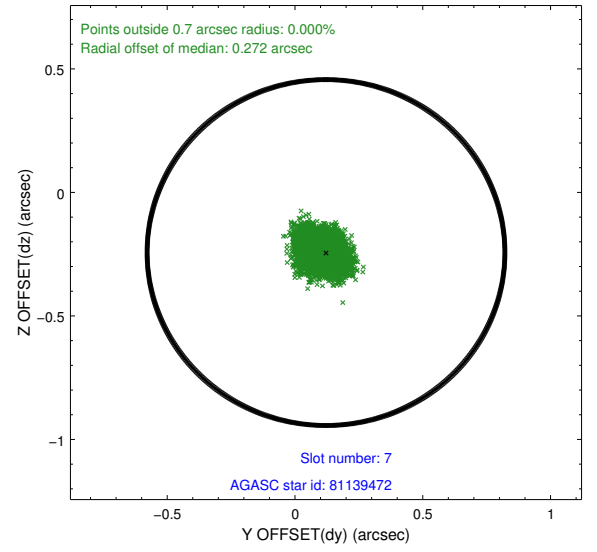
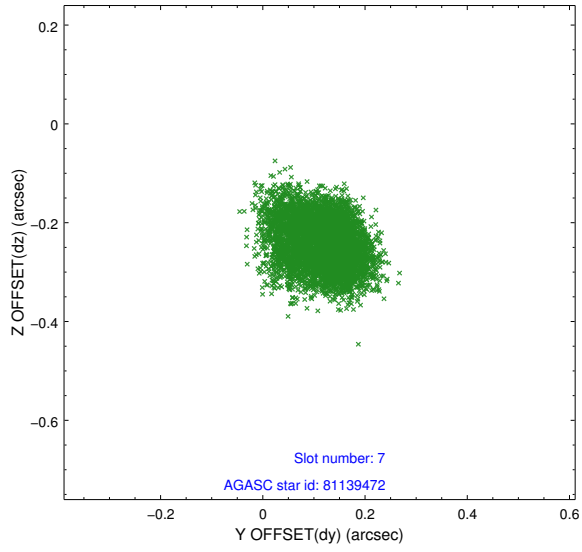
2.4.3 Slot 5



2.4.4 Slot 6

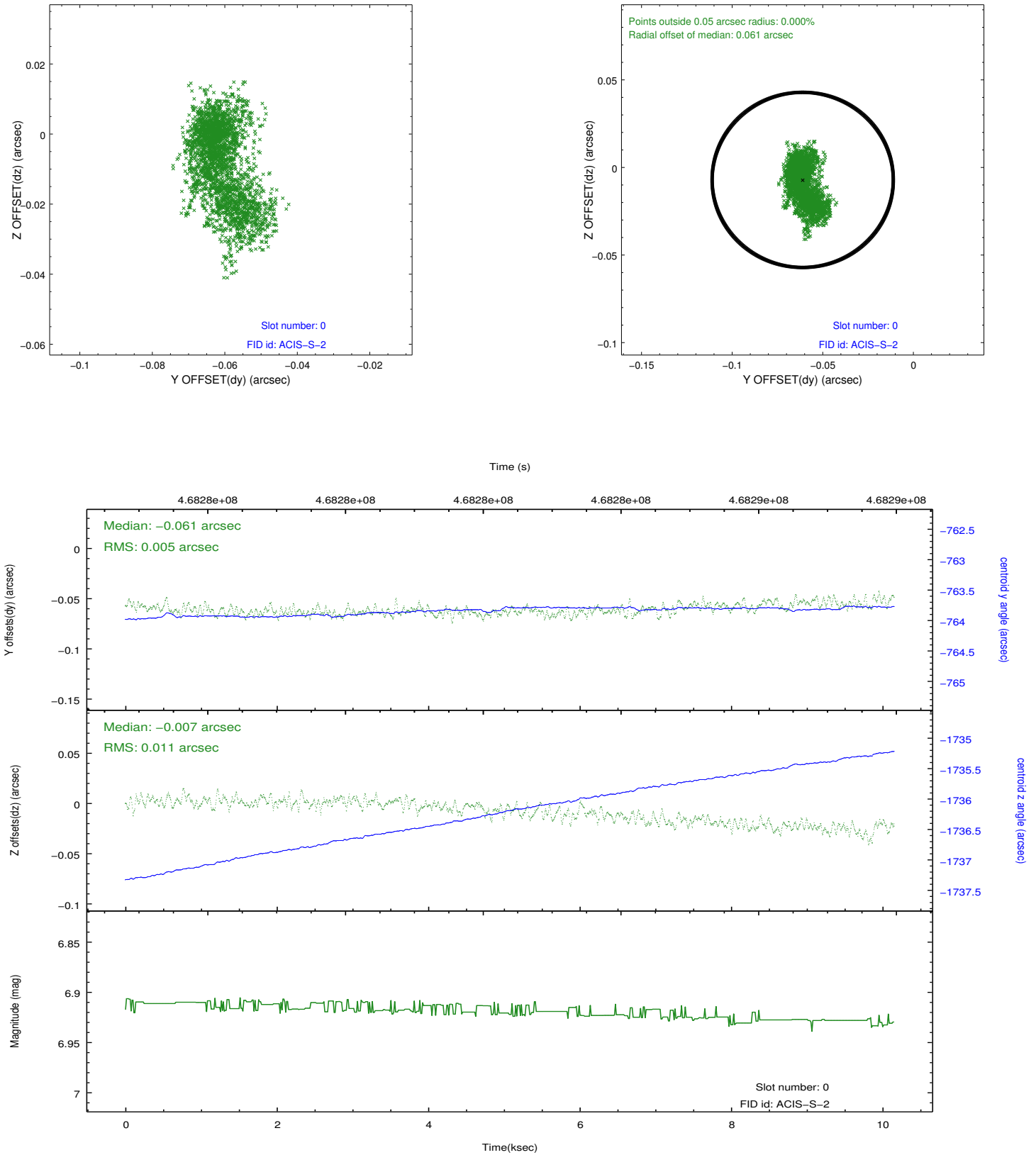


2.4.5 Slot 7

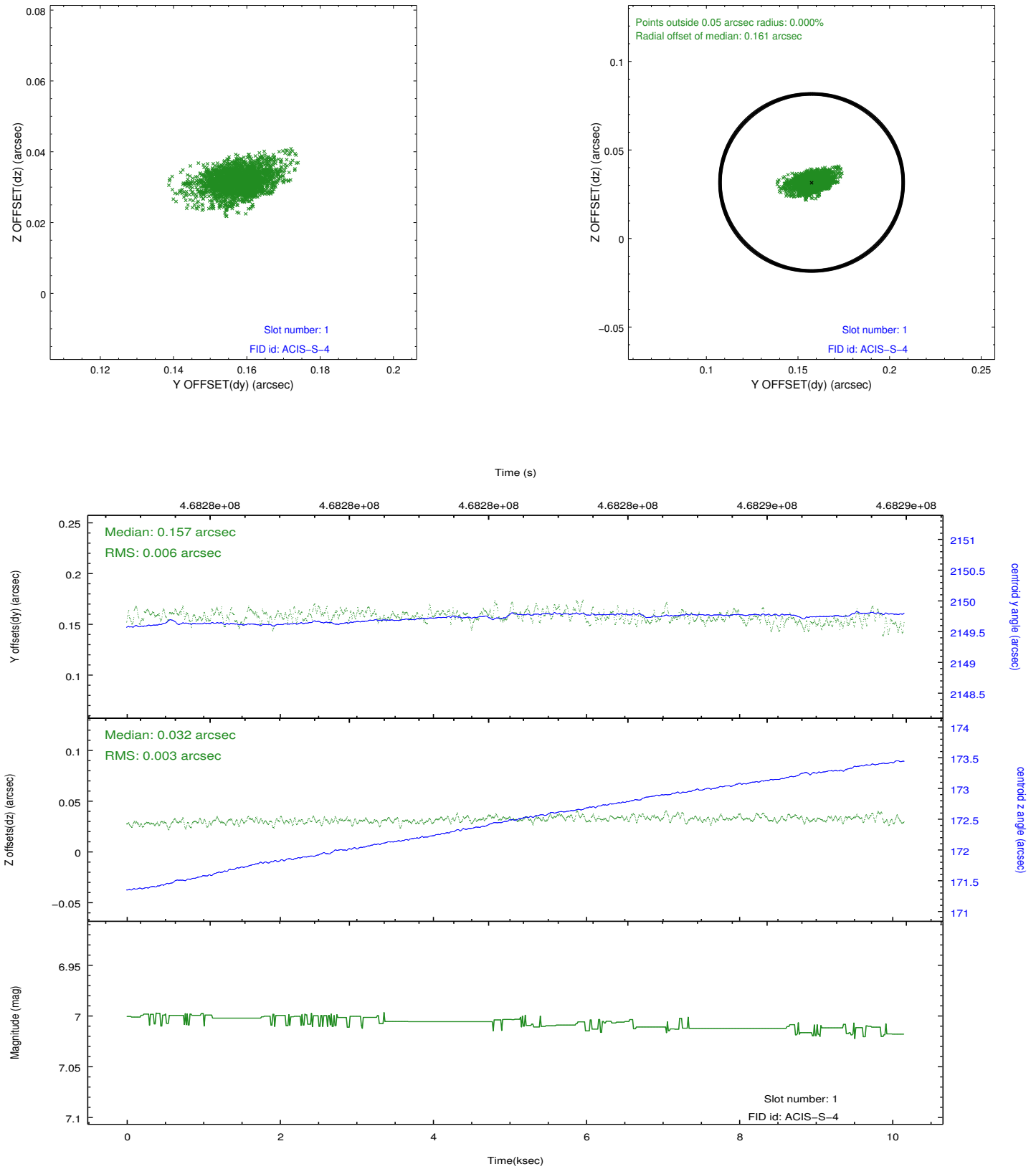


2.5 FID Slots

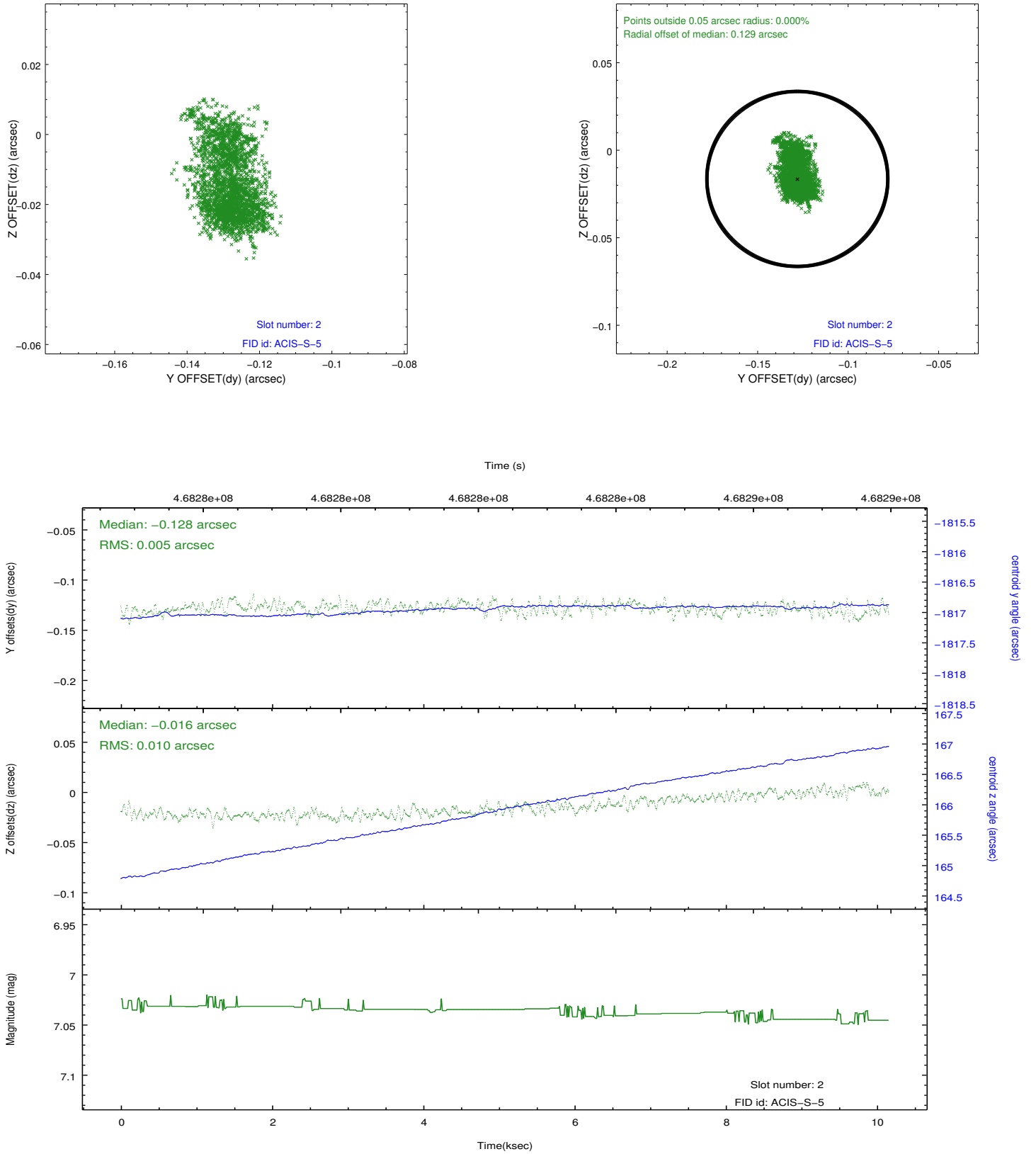
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068799399853

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.