

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 14509 - L2 Version 2
Chandra X-Ray Center

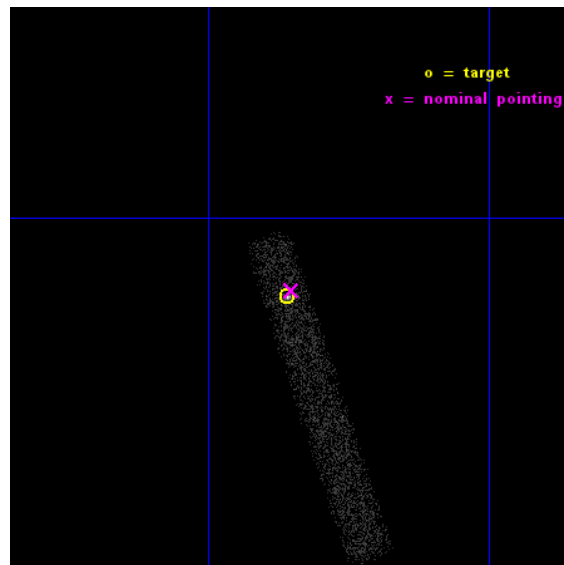
L2 Processing Date : Dec 8 2014

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1 Front

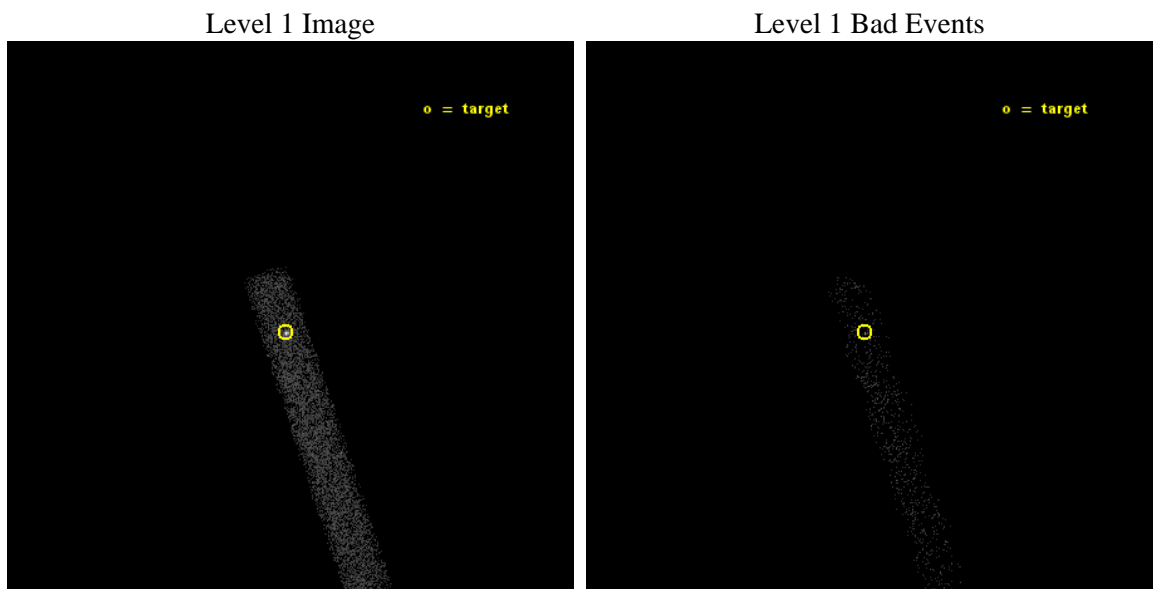
seq_num	702746	Sequence number
obs_id	14509	Observation id
title	ENERGY DEPENDENT X-RAY MICROLENSING AND THE STRUCTURE OF QUASARS	P
observer	Prof. Christopher Kochanek	Principal investigator
object	RXJ1131-1231	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.96300708163	Nominal RA [deg]
dec_nom	-12.530161440734	Nominal Dec [deg]
roll_nom	71.27996022189	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10069.199399829	Sum of GTIs [s]
livetime	9132.2323597215	Livetime [s]
ontime7	10069.199399829	Sum of GTIs [s]
l2events	8286	Number of level 2 events



2 OBI

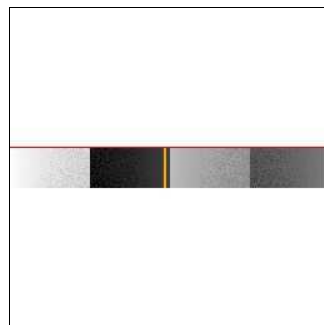
2.1 OBI

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	10.3.1	Processing system revision	ontime	10069.199399829	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	10069.199399829	Sum of GTIs [s]
date	2014-12-08T05:17:26	Date and time of file creation	l1events	13040	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

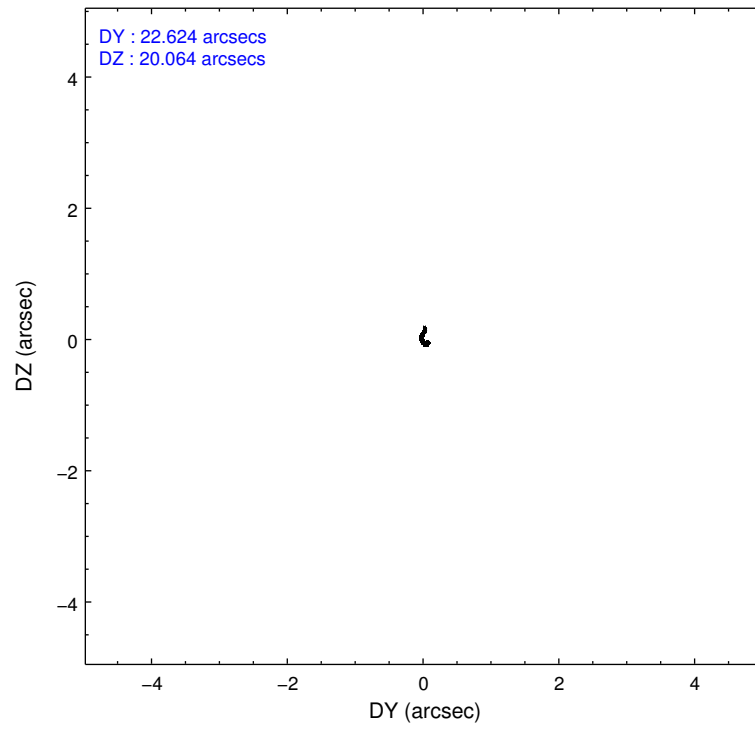
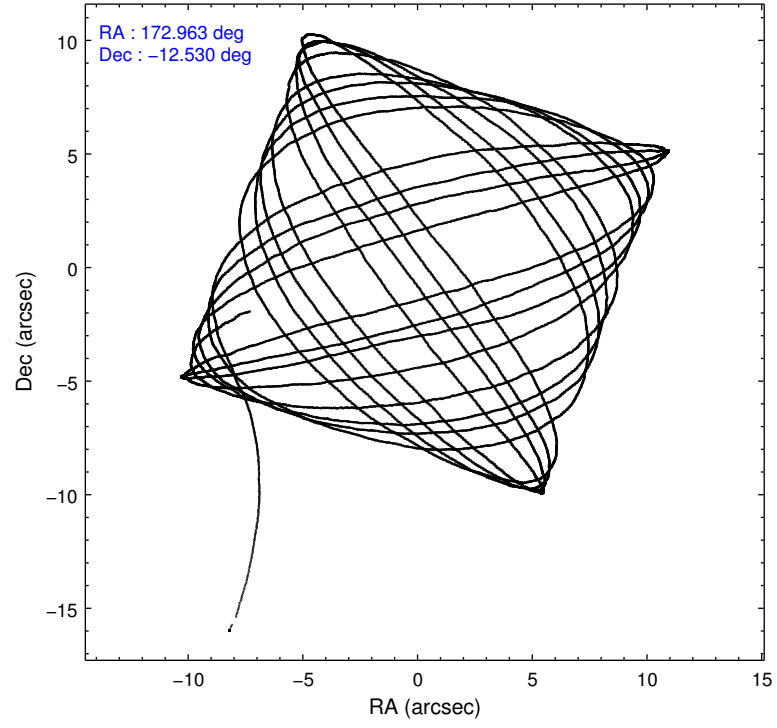
	ccd 7
level 1 events	13040
rejected events	4581
rejected %	35%

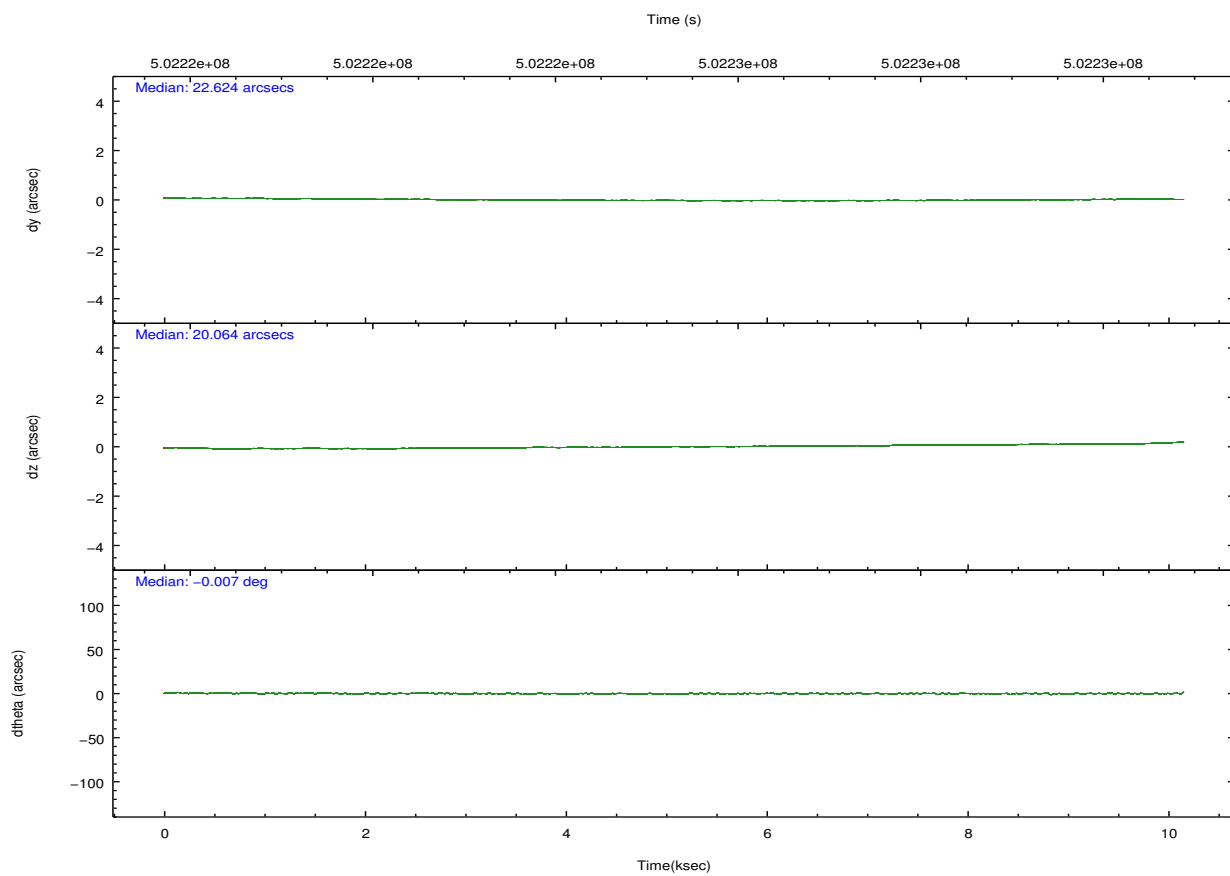
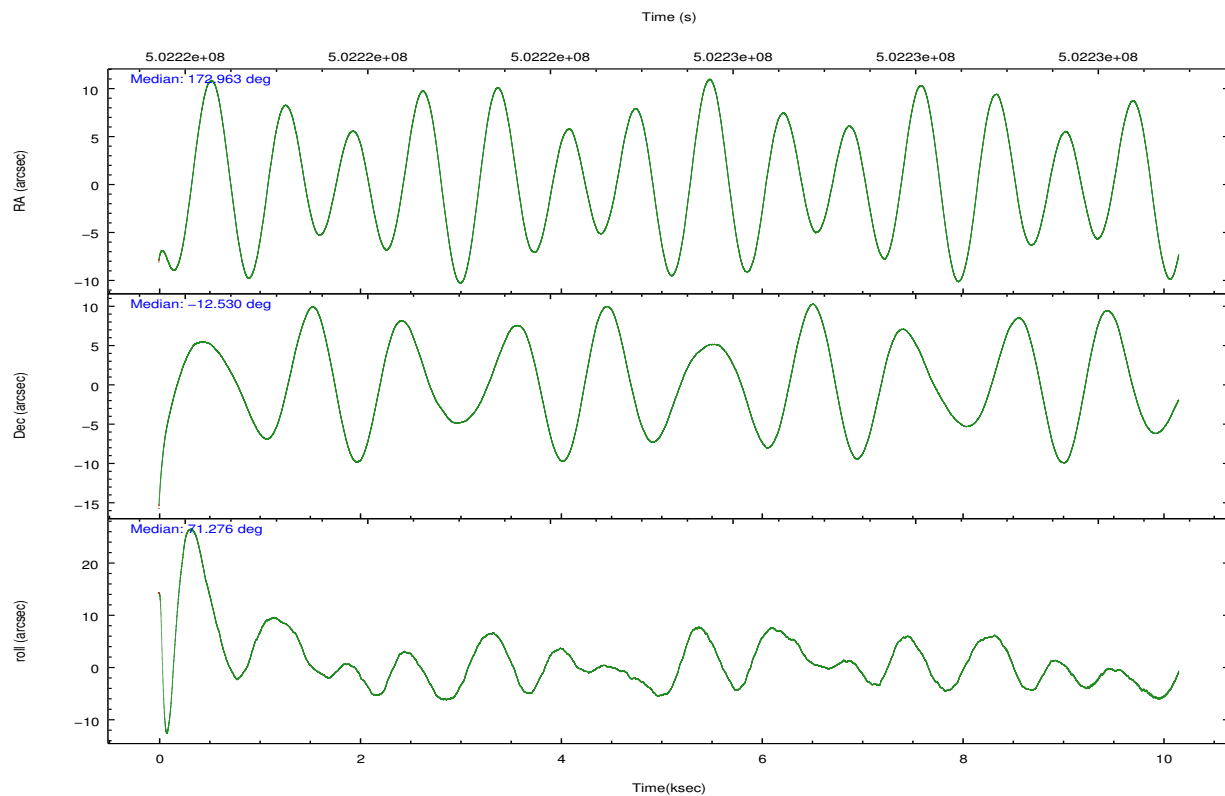
	ccd 7
grade 0 events	1628
	12%
grade 1 events	19
	0%
grade 2 events	1897
	14%
grade 3 events	1083
	8%
grade 4 events	985
	7%
grade 5 events	1003
	7%
grade 6 events	2866
	21%
grade 7 events	3559
	27%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	172.968909	172.9630070816288	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-12.556877	-12.53016144073417	Subarray start row	449	449
[deg] Pointing Roll	71.124579	71.27996022189042	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	502220371.184000	502219328.68319			
Observation start date	2013-11-30T17:38:24	2013-11-30T17:22:08			
[s] Observation end time (MET)	502230371.184000	502230918.87132			
Observation end date	2013-11-30T20:25:04	2013-11-30T20:35:18			
Read mode	TIMED	TIMED			

2.3 Aspect



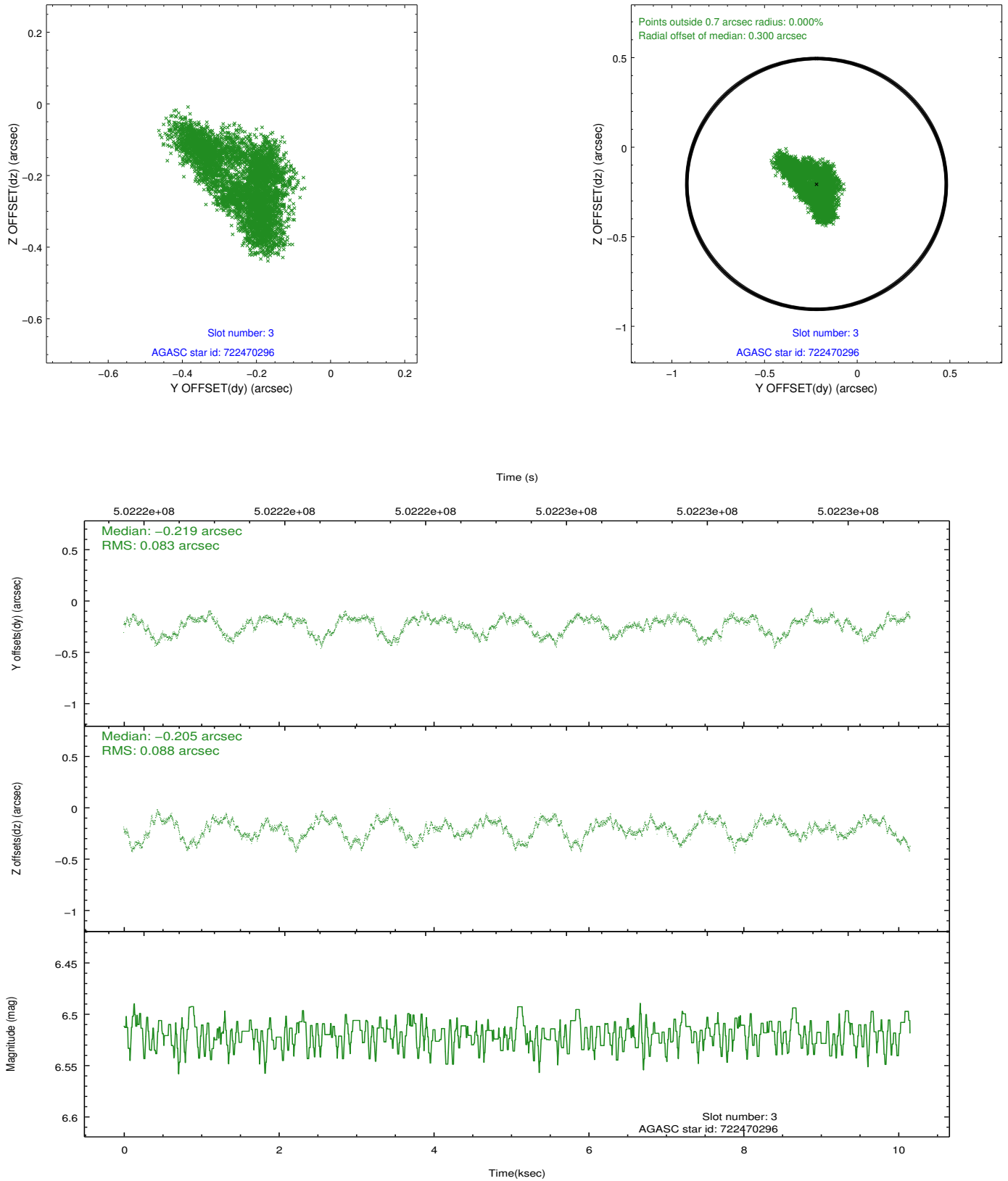


Slot Statistics

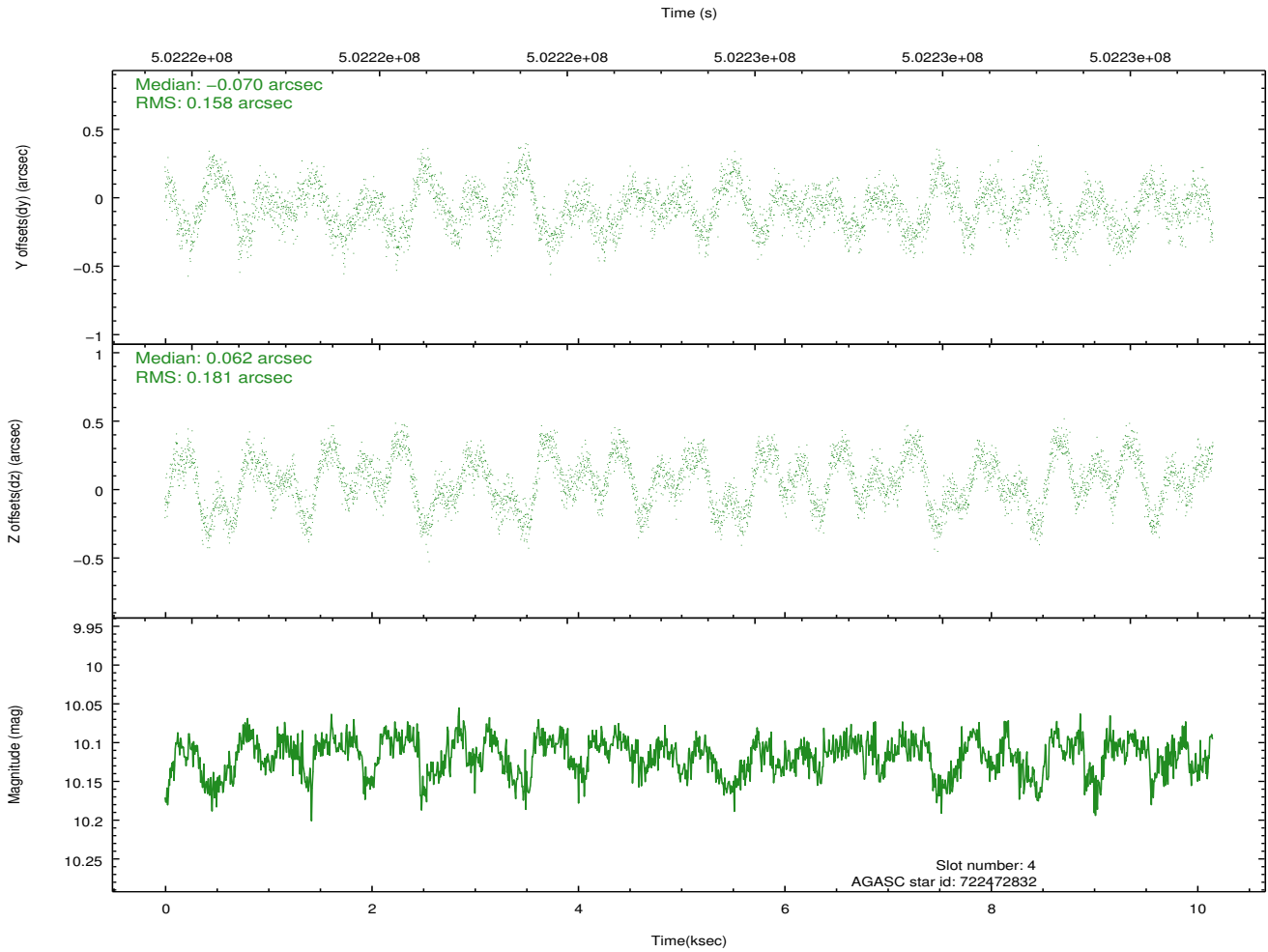
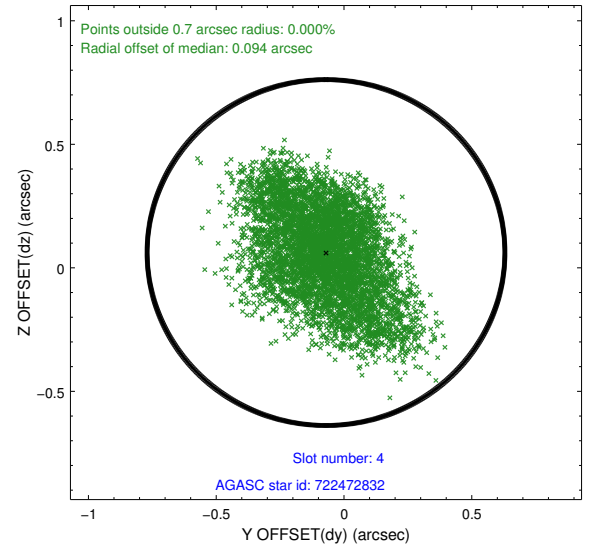
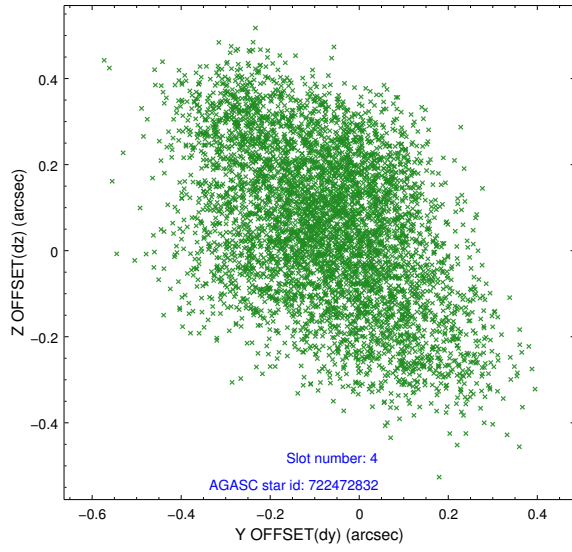
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	6.92	2476	0.074	-0.054	0.007	0.012	0.000000	0.000000	920.37	-1737.24
1	FID		ACIS-S-5	6.95	2477	-0.180	0.033	0.006	0.011	0.000000	0.000000	-1828.66	159.77
2	FID		ACIS-S-6	7.05	2477	0.085	0.033	0.008	0.013	0.000000	0.000000	385.28	804.39
3	GUIDE	used	722470296	6.52	4954	-0.219	-0.205	0.130	0.203	172.921689	-12.381367	544.21	361.80
4	GUIDE	used	722472832	10.12	4943	-0.070	0.062	0.260	0.411	173.078970	-12.015349	1970.30	264.33
5	GUIDE	used	722473176	9.42	4950	-0.149	-0.310	0.137	0.218	172.599746	-12.066793	1248.31	1800.39
6	GUIDE	used	722871728	9.61	4950	0.139	0.454	0.203	0.315	173.202235	-12.568355	226.53	-788.10
7	GUIDE	used	722873464	7.31	4953	0.330	0.020	0.108	0.181	172.661543	-13.050266	-2029.91	444.34

2.4 Star Slots

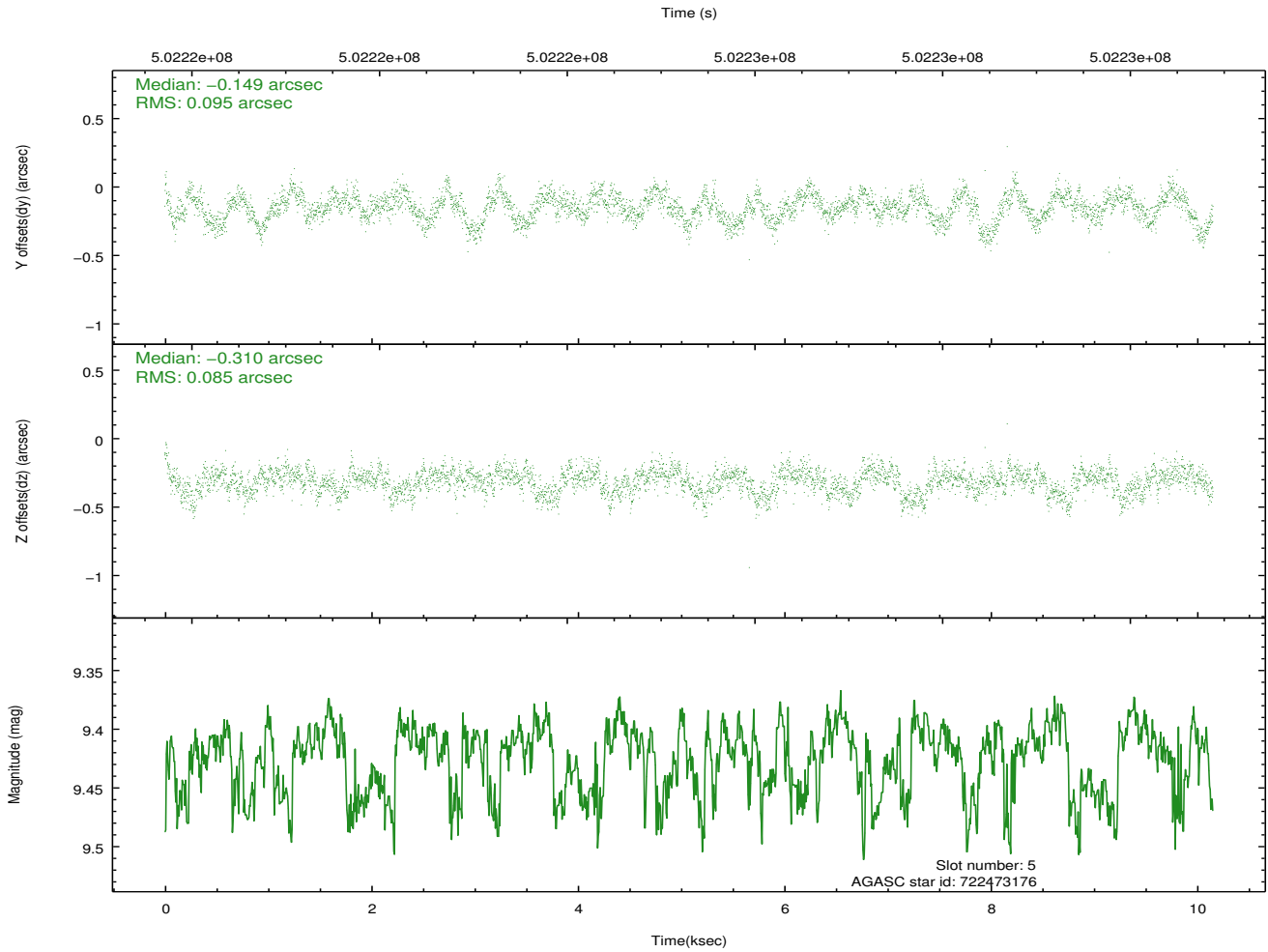
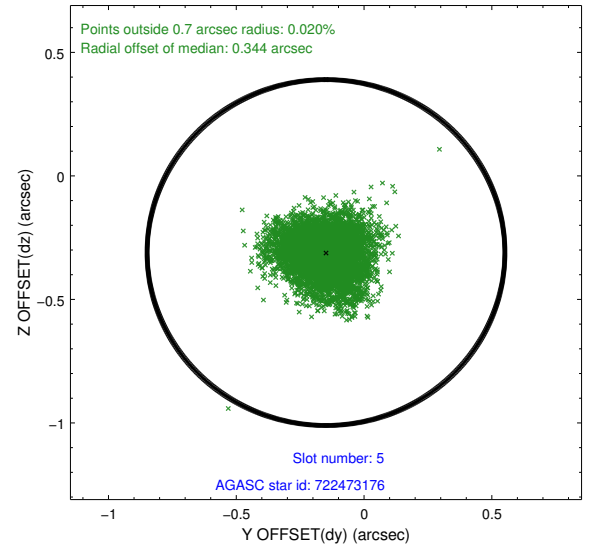
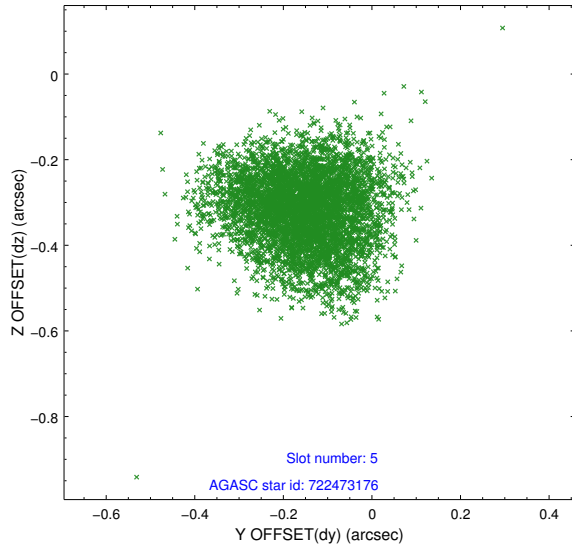
2.4.1 Slot 3



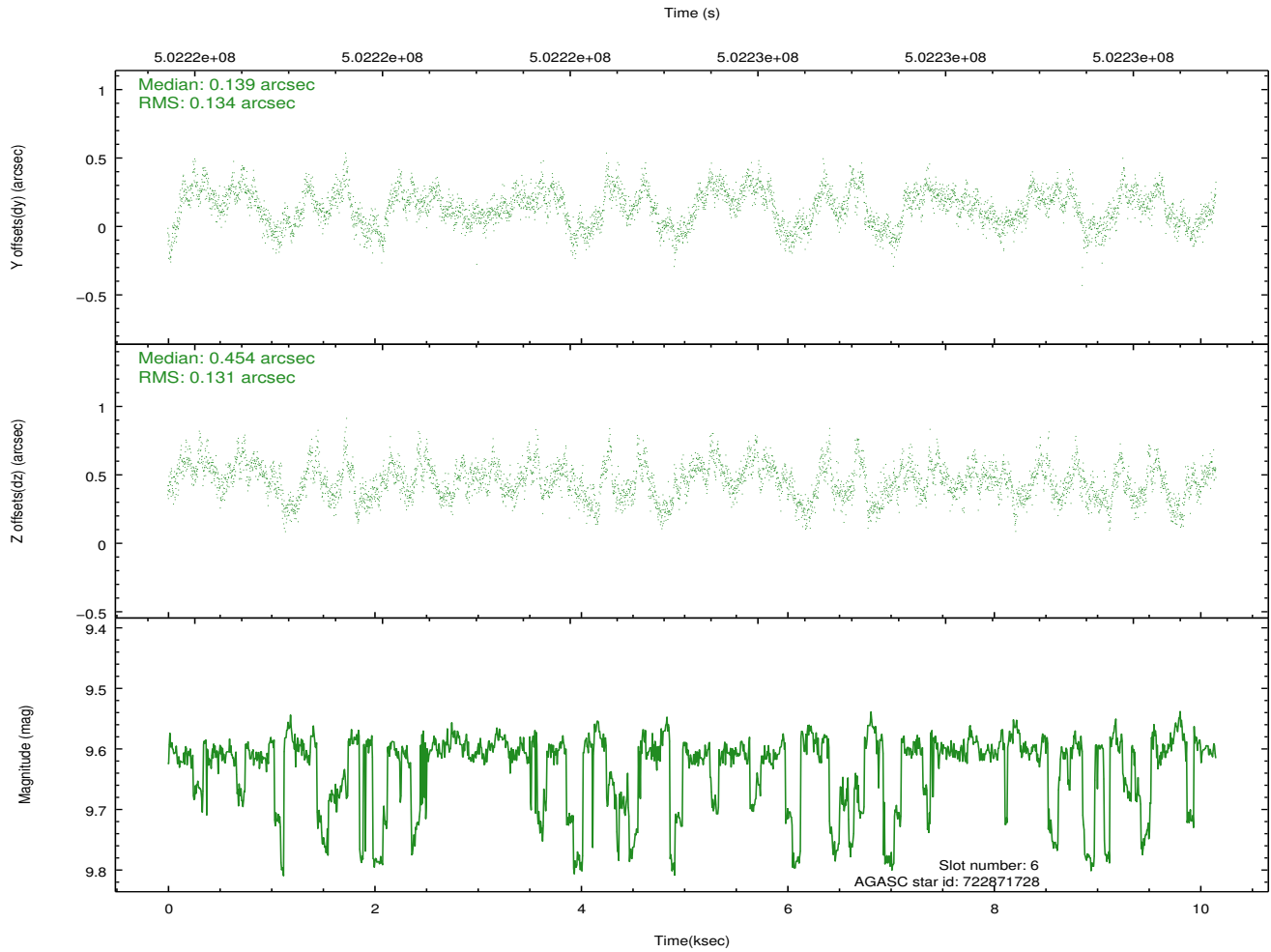
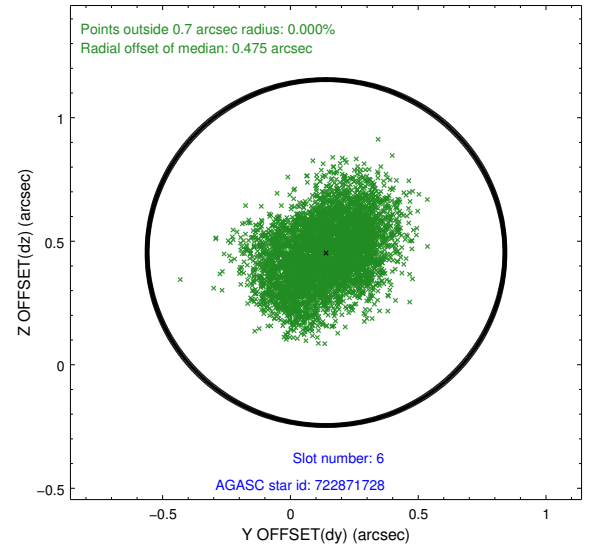
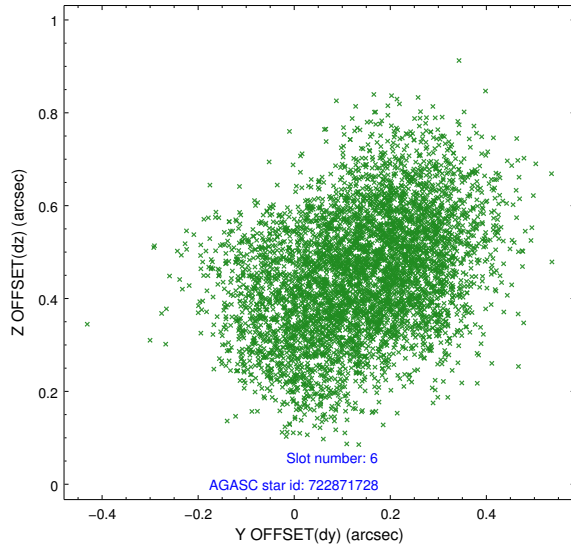
2.4.2 Slot 4



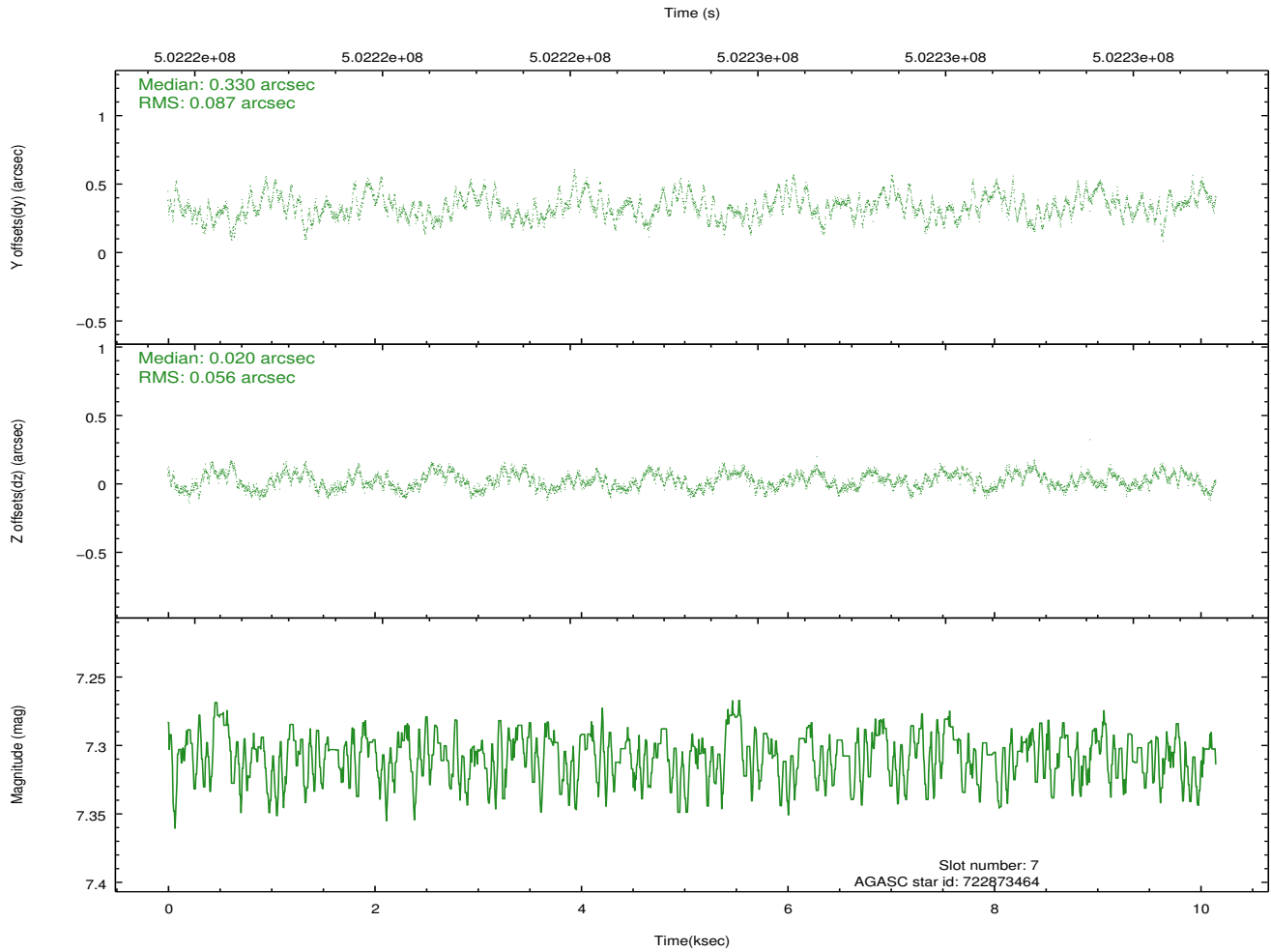
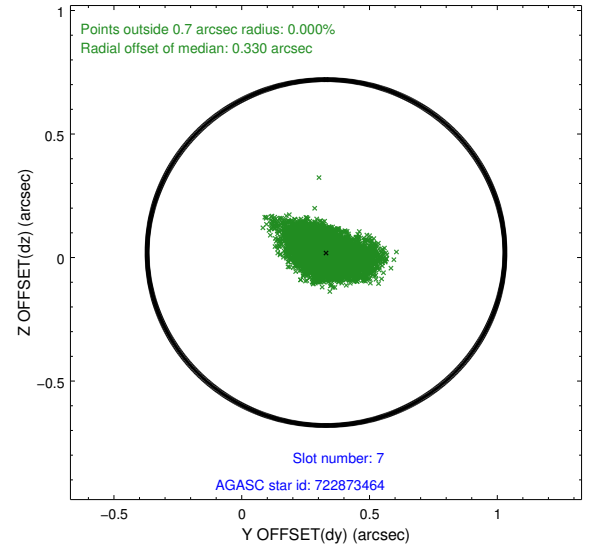
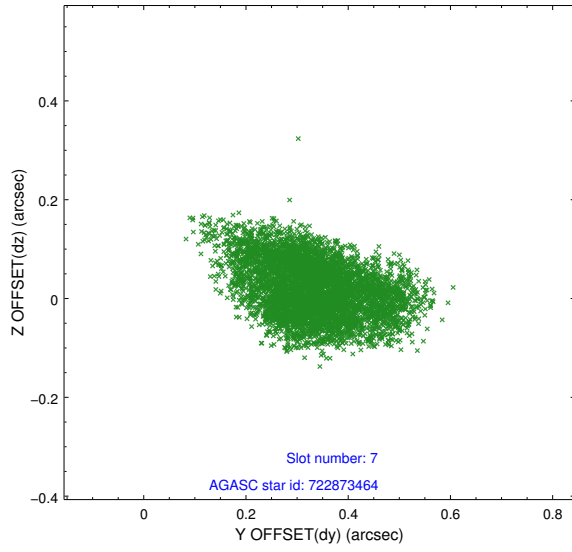
2.4.3 Slot 5



2.4.4 Slot 6

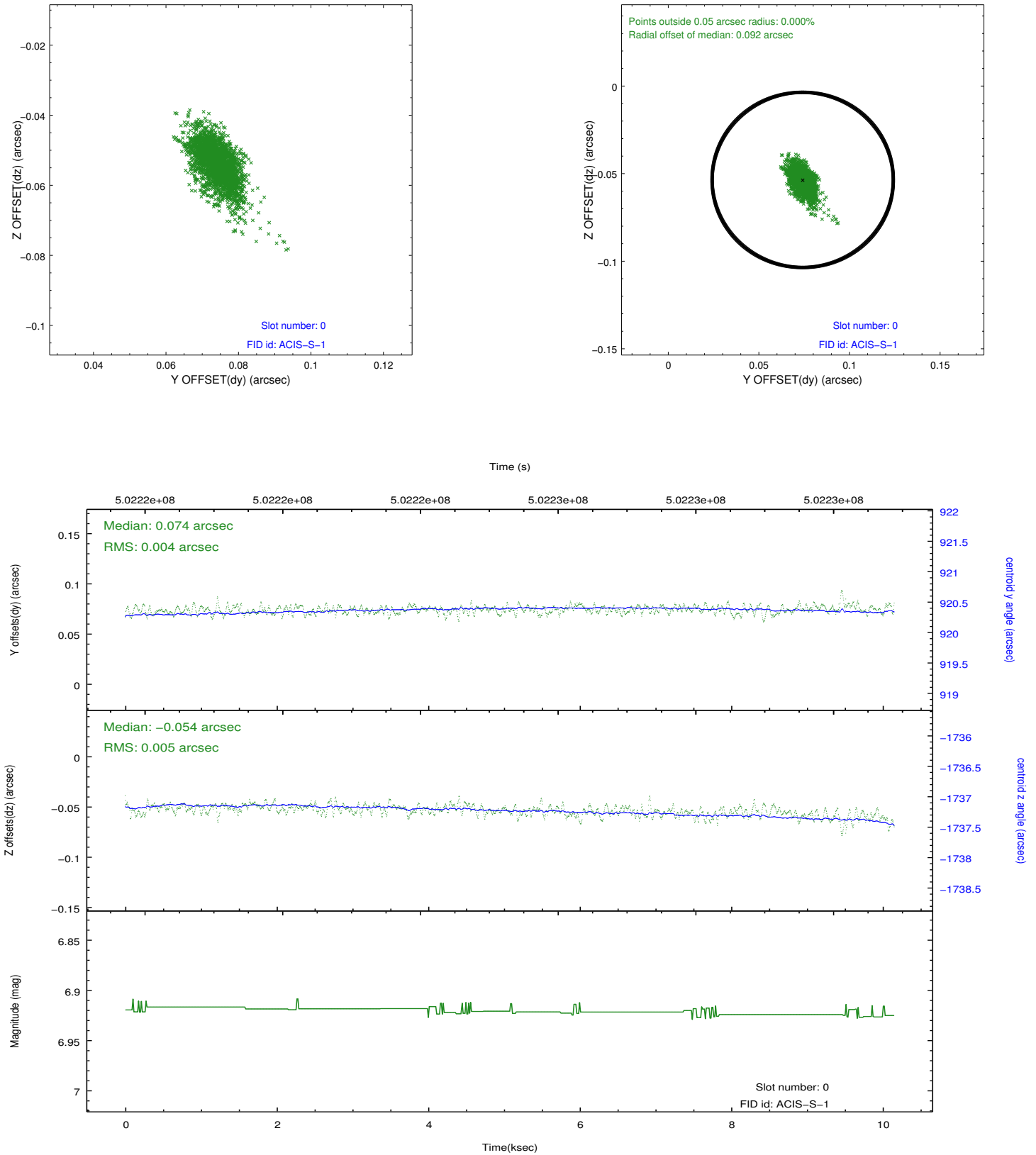


2.4.5 Slot 7

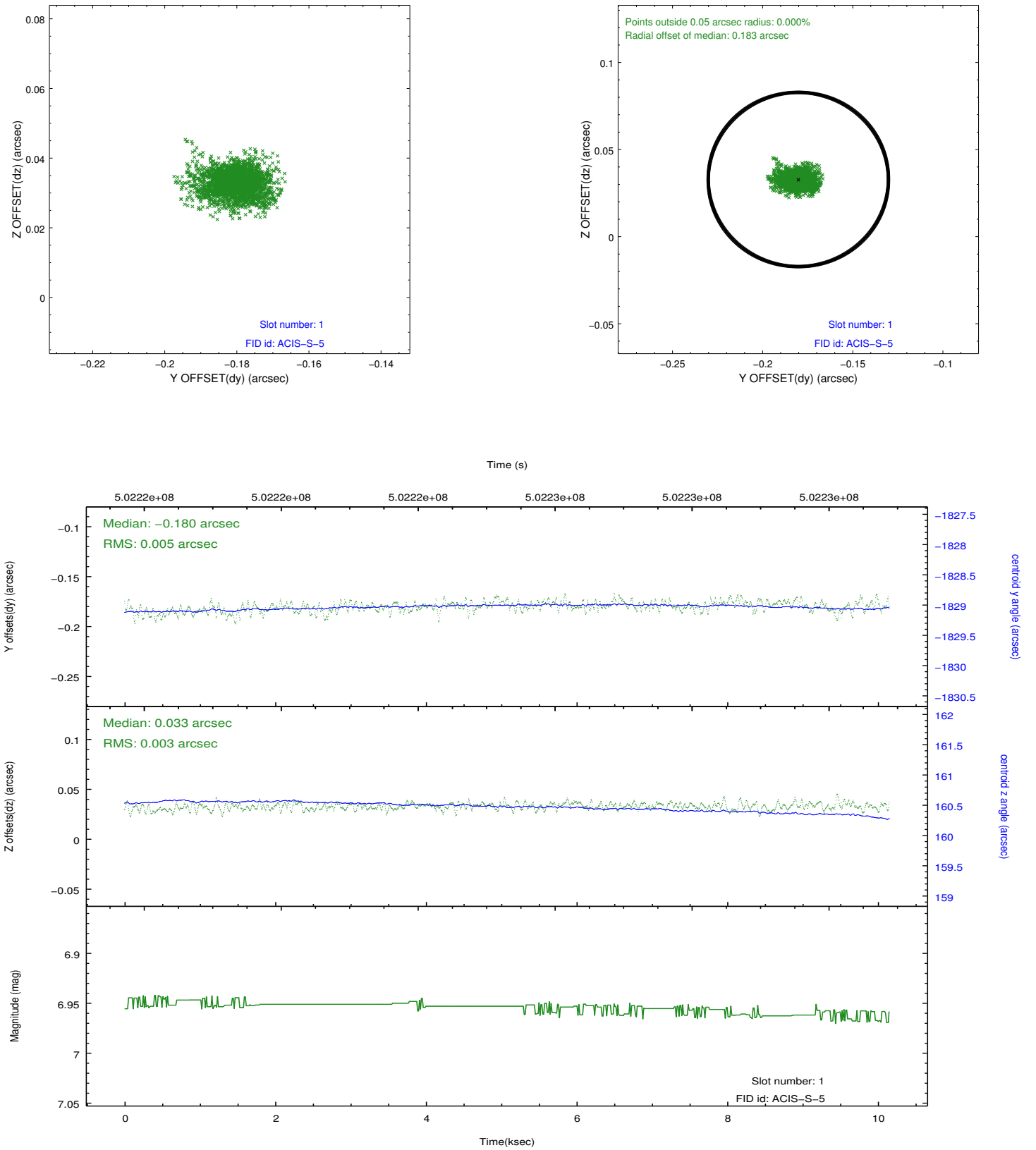


2.5 FID Slots

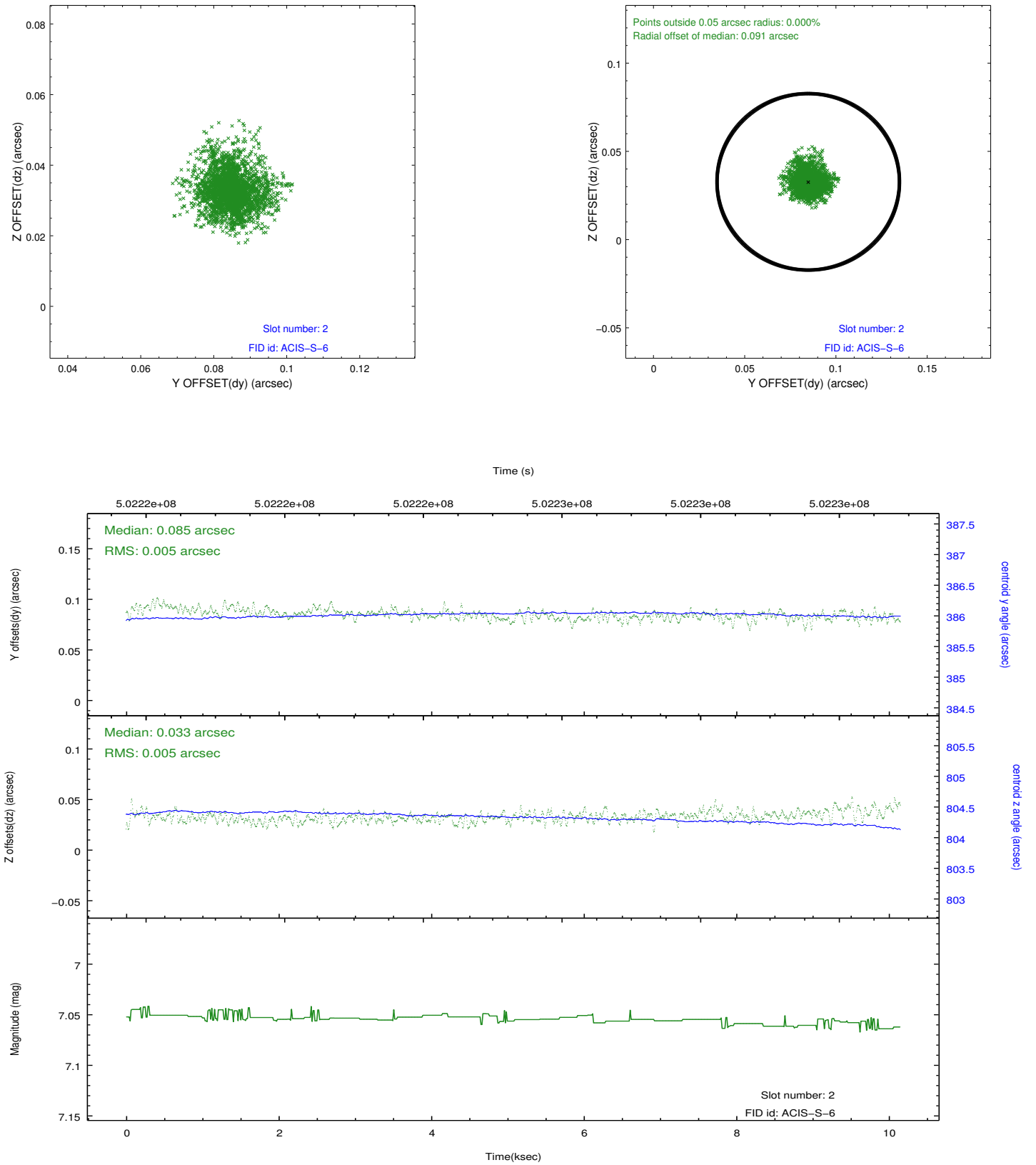
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.069199399829

A.2 Comments

Joint proposal with HST.

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.