

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 21423 - L2 Version 1
Chandra X-Ray Center

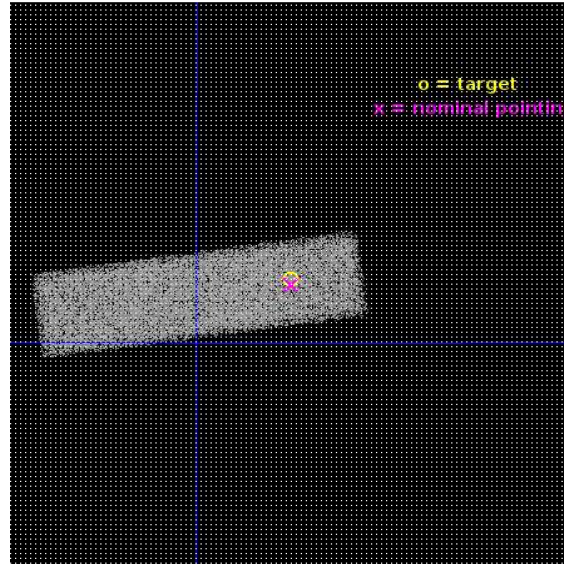
L2 Processing Date : Oct 10 2019

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1 Front

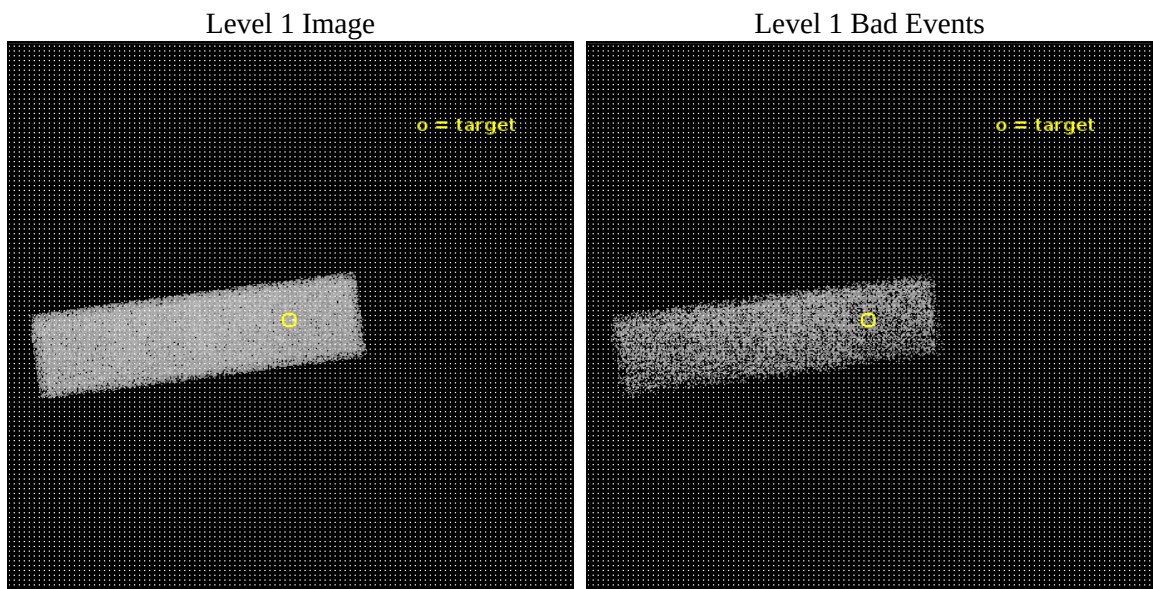
seq_num	703720	Sequence number
obs_id	21423	Observation id
title	THE TORUS AND THE HOST: Extended Hard Emission in Compton Thick AGN with NuSTAR Spectra	Proposal title
observer	Martin Elvis	Principal investigator
object	2MASXJ00253292+6821442	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.387083	Observer's specified target RA [deg]
dec_targ	68.362222	Observer's specified target Dec [deg]
ra_nom	6.3870652811939	Nominal RA [deg]
dec_nom	68.359641763446	Nominal Dec [deg]
roll_nom	172.15664080464	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31060.633060455	Sum of GTIs [s]
livetime	29544.975801822	Livetime [s]
ontime7	31060.633060455	Sum of GTIs [s]
l2events	36848	Number of level 2 events



2 OBI

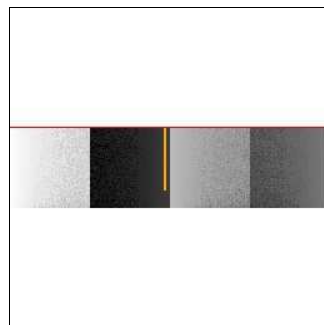
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	31060.633060455	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime7	31060.633060455	Sum of GTIs [s]
date	2019-10-10T22:06:37	Date and time of file creation	l1events	80425	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

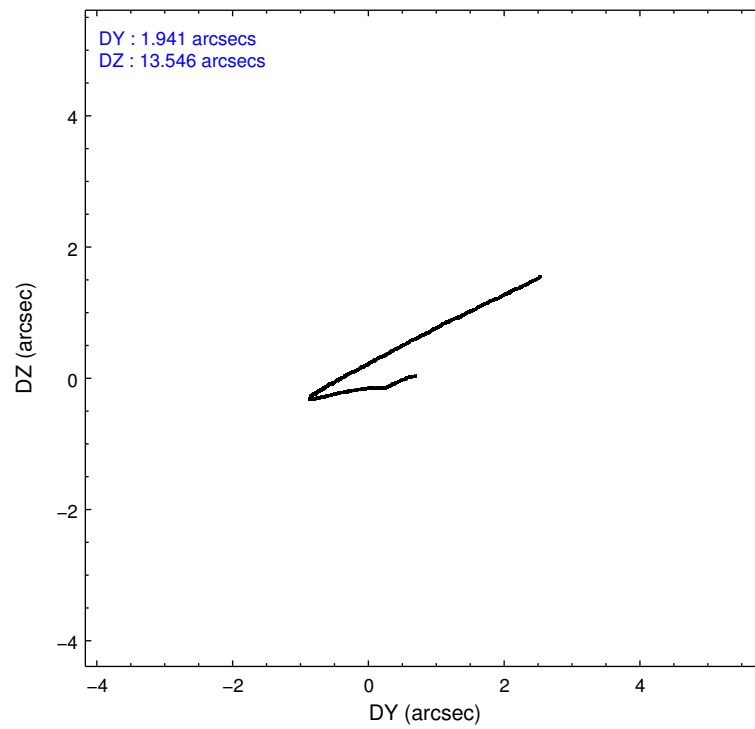
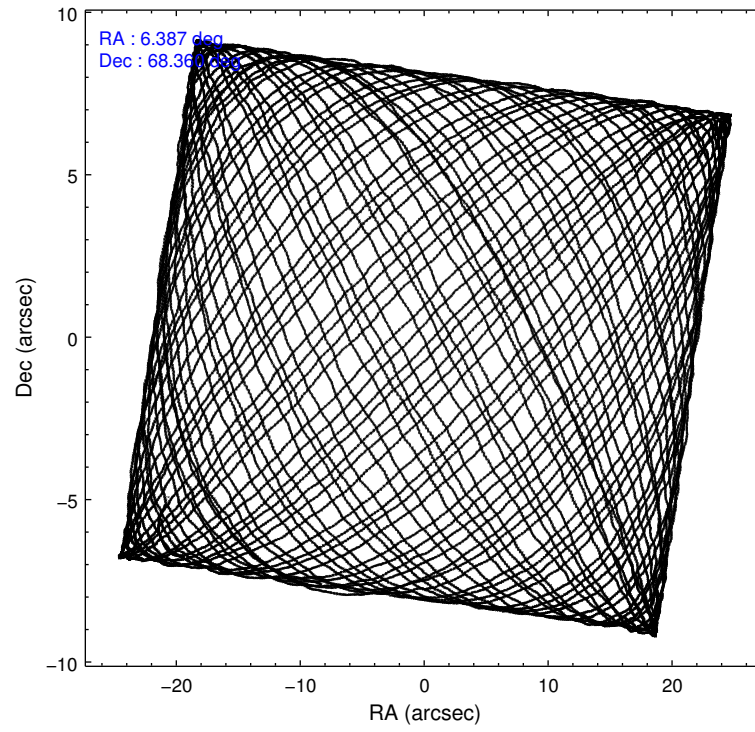
	ccd 7
level 1 events	80425
rejected events	42342
rejected %	52%

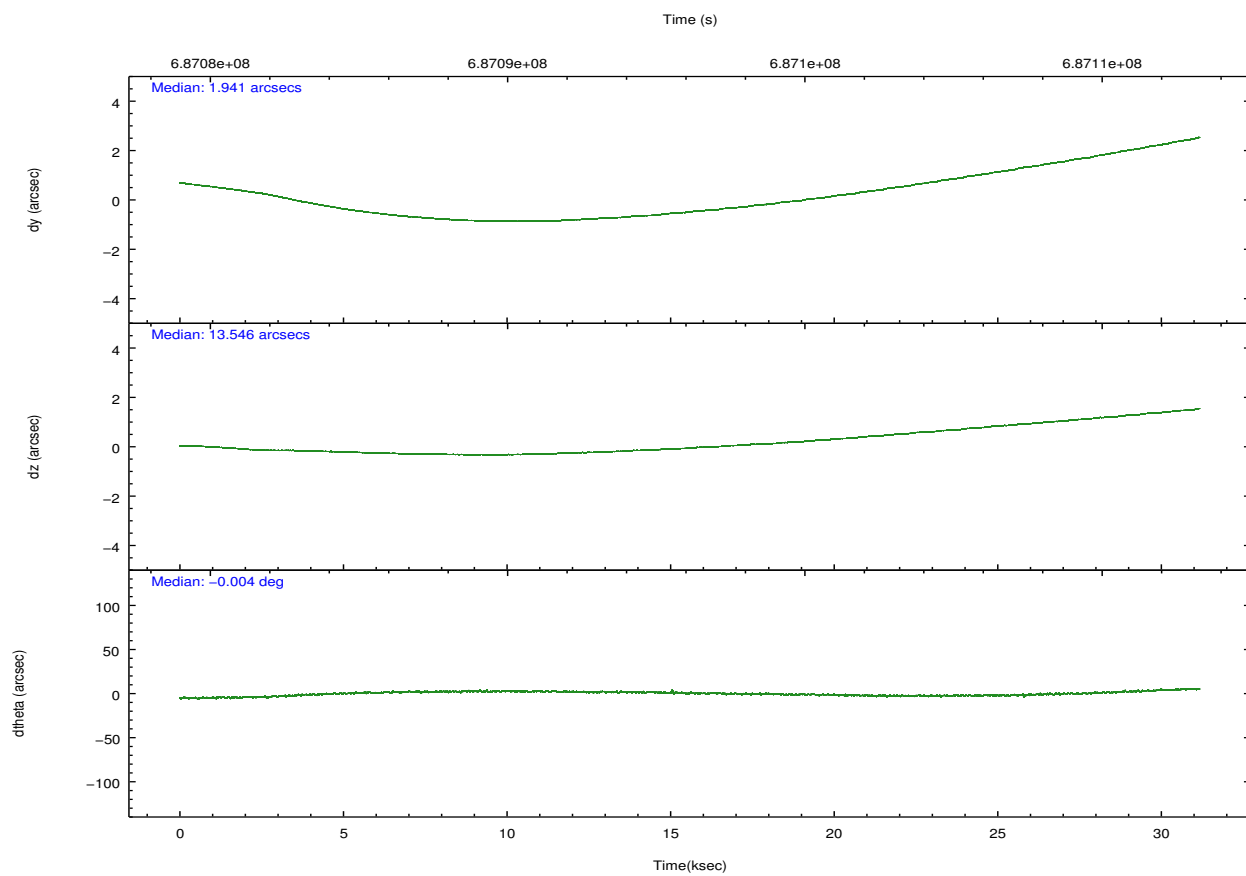
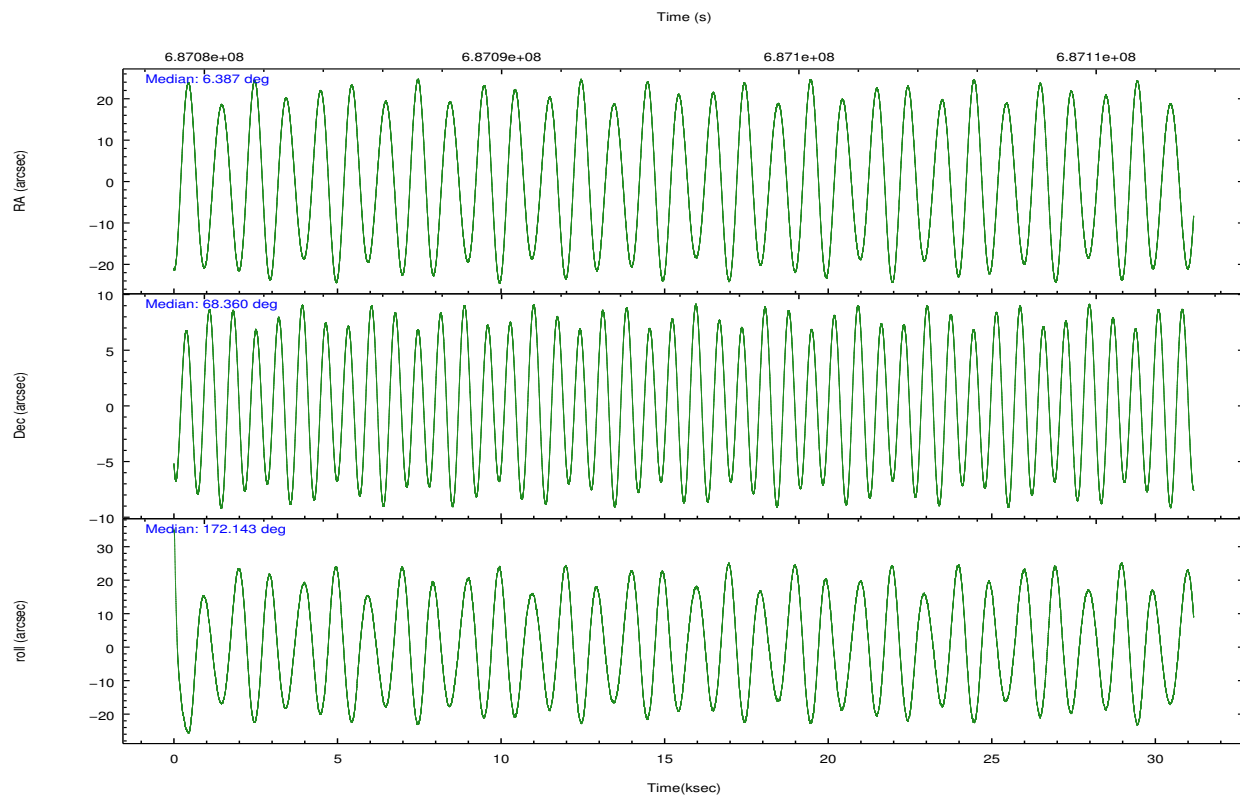
	ccd 7
grade 0 events	3743
	4%
grade 1 events	147
	0%
grade 2 events	7699
	9%
grade 3 events	4215
	5%
grade 4 events	4164
	5%
grade 5 events	8239
	10%
grade 6 events	18264
	22%
grade 7 events	33954
	42%

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	6.455666	6.387065281193941	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	68.370316	68.35964176344584	Subarray start row	385	385
[deg] Pointing Roll	171.936249	172.1566408046419	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	687080736.184000	687079645.57443			
Observation start date	2019-10-10T07:44:27	2019-10-10T07:27:25			
[s] Observation end time (MET)	687111736.184000	687113192.28896			
Observation end date	2019-10-10T16:21:07	2019-10-10T16:46:32			
Read mode	TIMED	TIMED			

2.3 Aspect



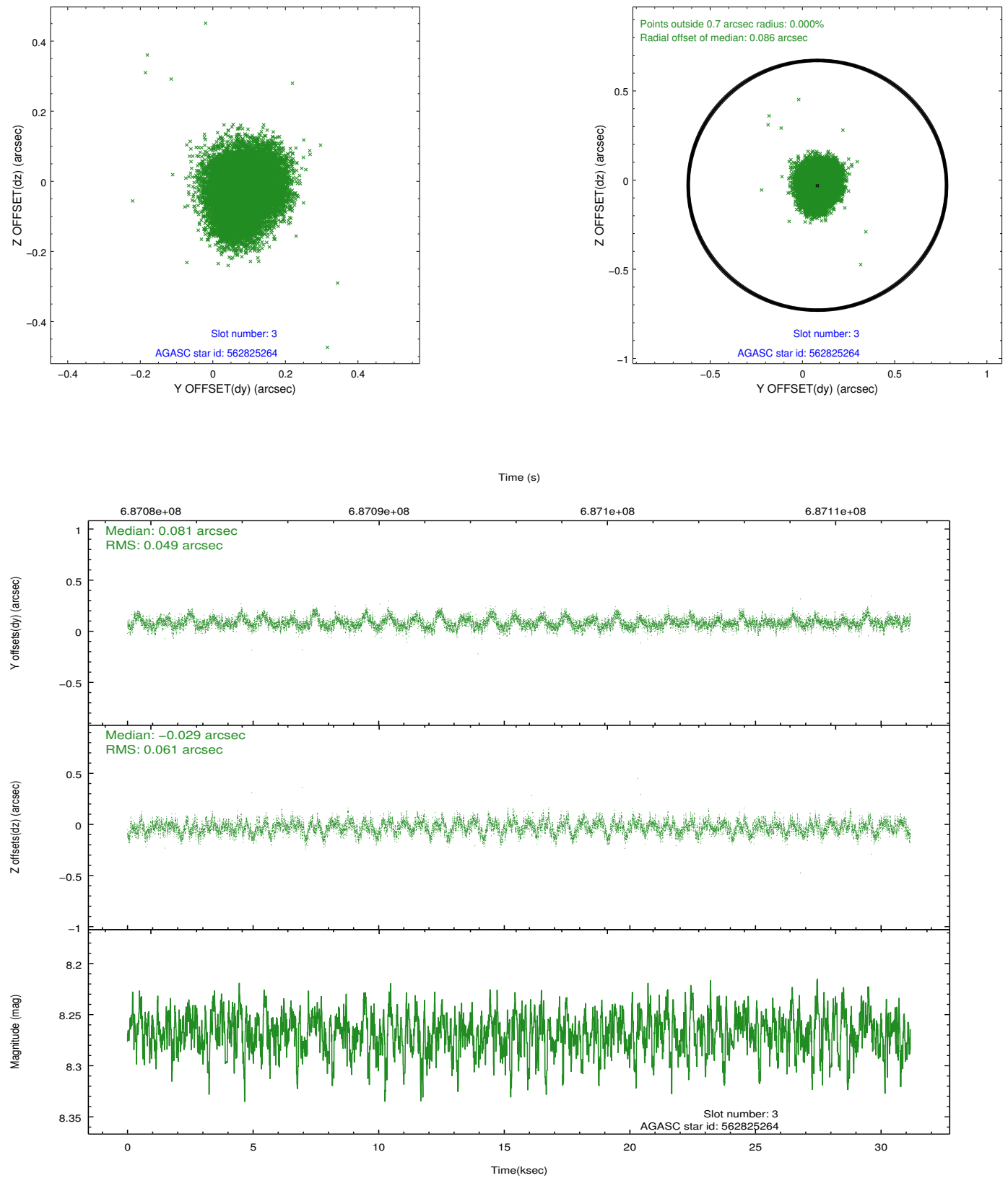


Slot Statistics

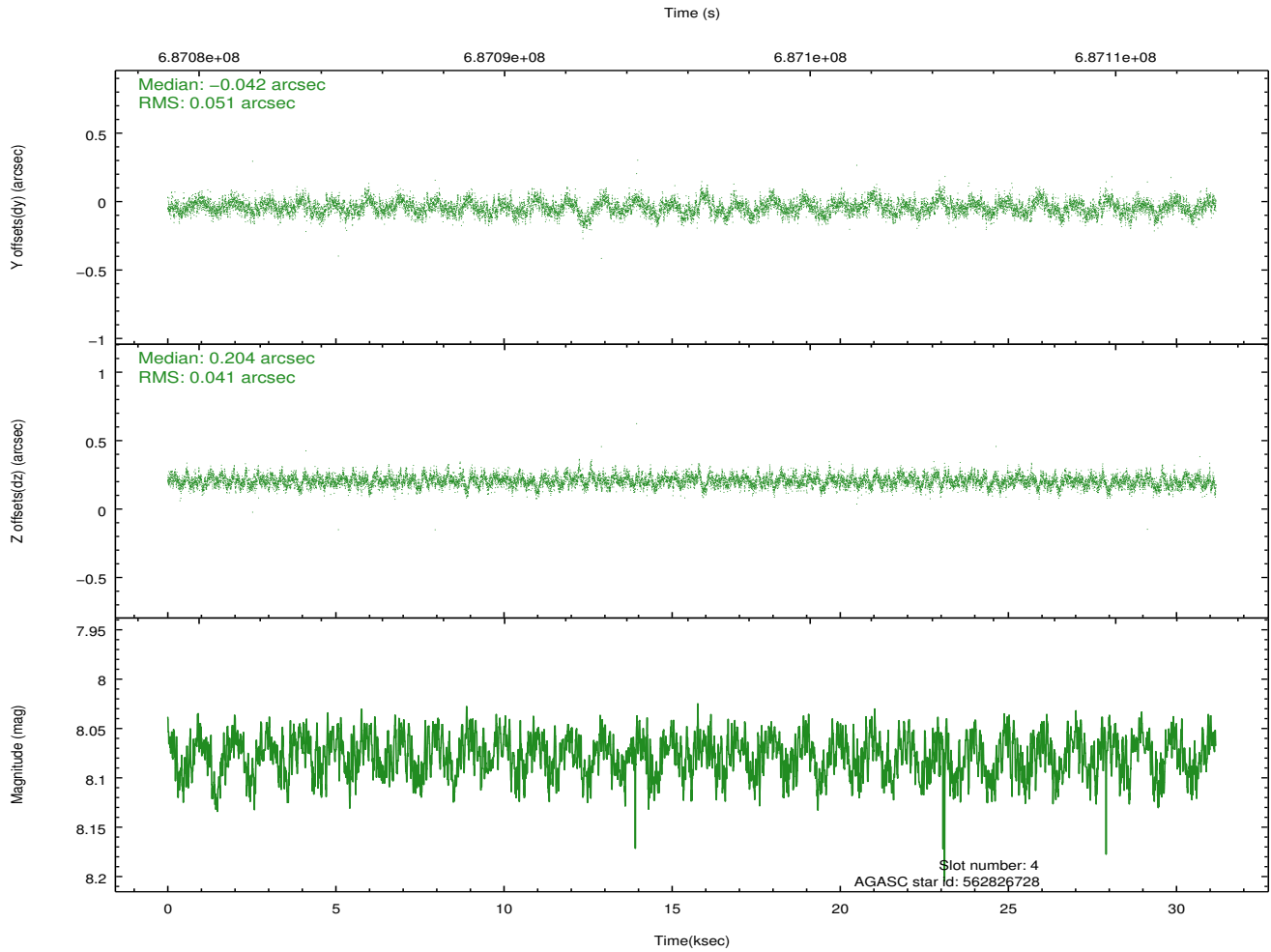
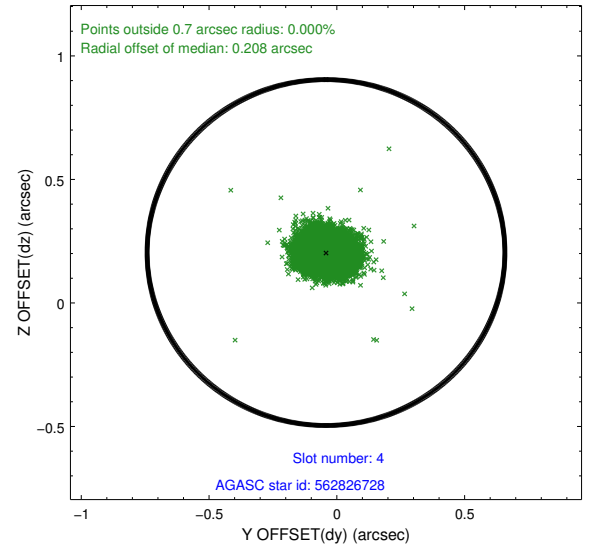
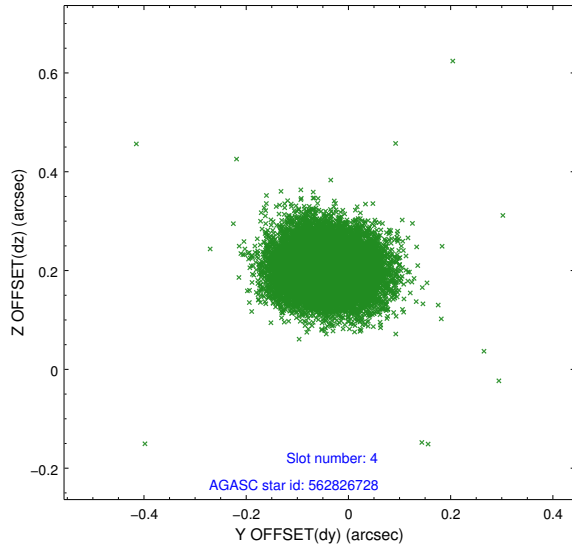
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.10	7603	1.000	0.171	0.039	0.014	0.032	0.000000	0.000000	941.37	-1730
1	FID		ACIS-S-2	7.02	7601	1.000	-0.235	-0.092	0.012	0.019	0.000000	0.000000	-754.90	-1735
2	FID		ACIS-S-6	7.29	7603	1.000	0.041	0.059	0.011	0.021	0.000000	0.000000	406.94	810
3	GUIDE	used	562825264	8.27	15196	1.000	0.081	-0.029	0.085	0.134	5.687336	67.870010	780.00	1922
4	GUIDE	used	562826728	8.08	15199	1.000	-0.042	0.204	0.069	0.113	4.699848	68.500142	2364.40	-170
5	GUIDE	used	562827960	7.89	15203	1.000	0.057	0.164	0.087	0.150	5.093376	68.847025	1994.58	-1470
6	GUIDE	used	562829456	7.34	15207	1.000	-0.170	-0.163	0.052	0.087	4.736986	68.421869	2283.42	103
7	GUIDE	used	562824176	6.45	15205	1.000	0.063	-0.167	0.087	0.135	5.426689	67.823014	1110.18	2135

2.4 Star Slots

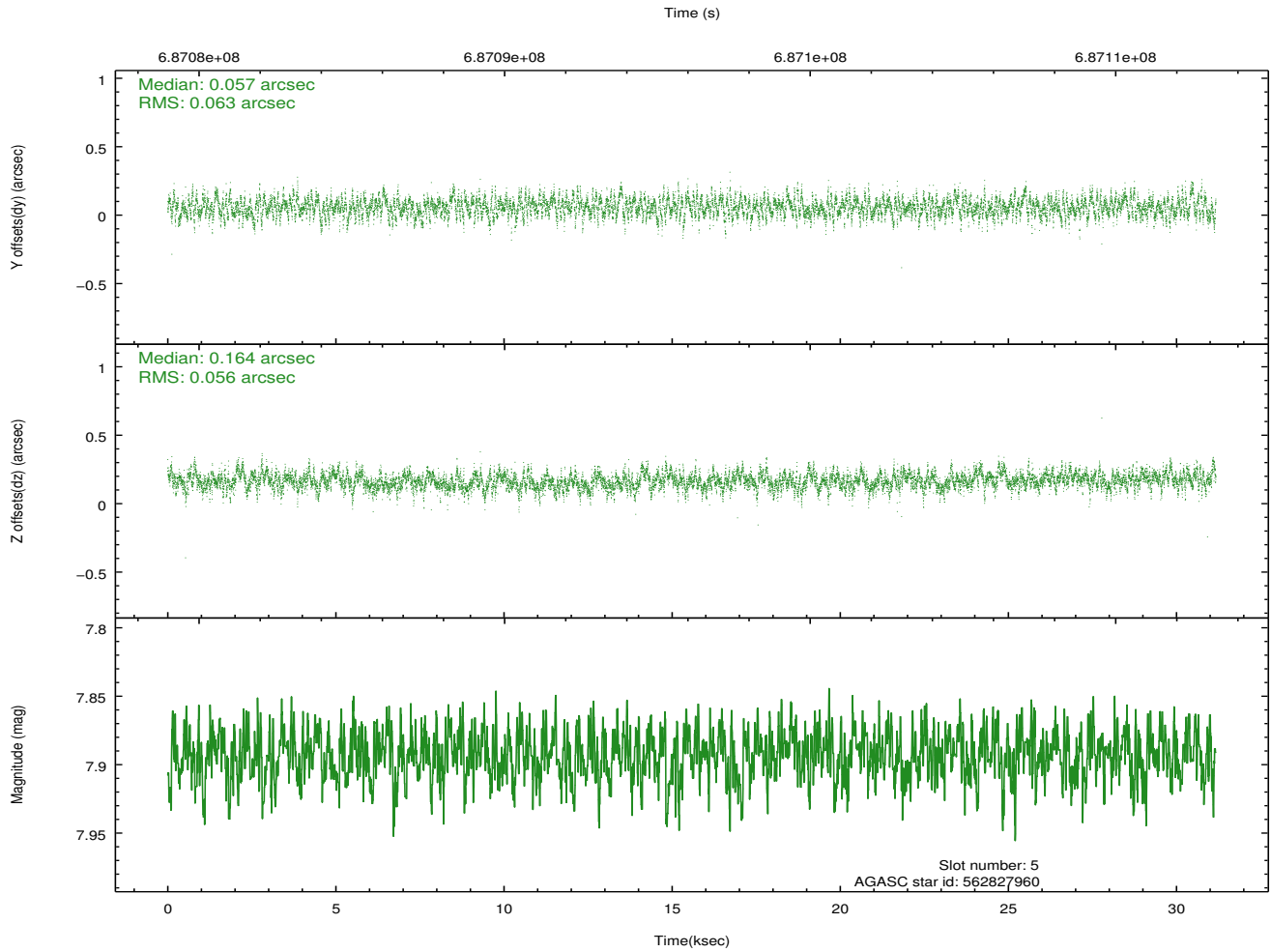
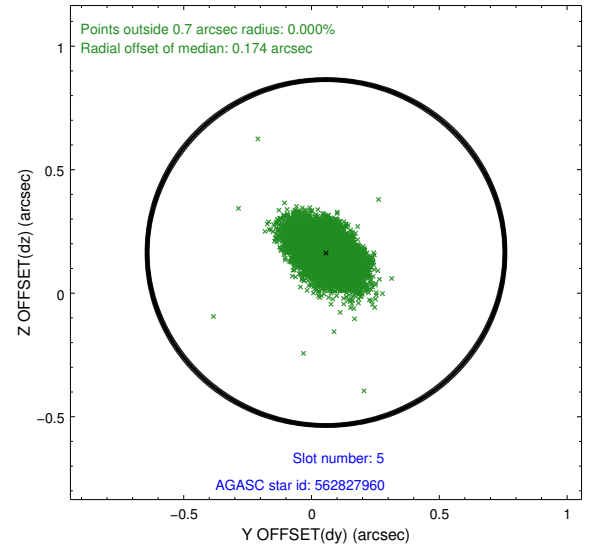
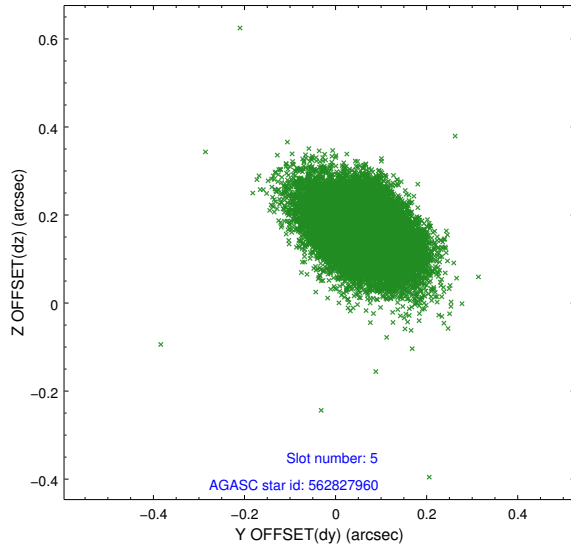
2.4.1 Slot 3



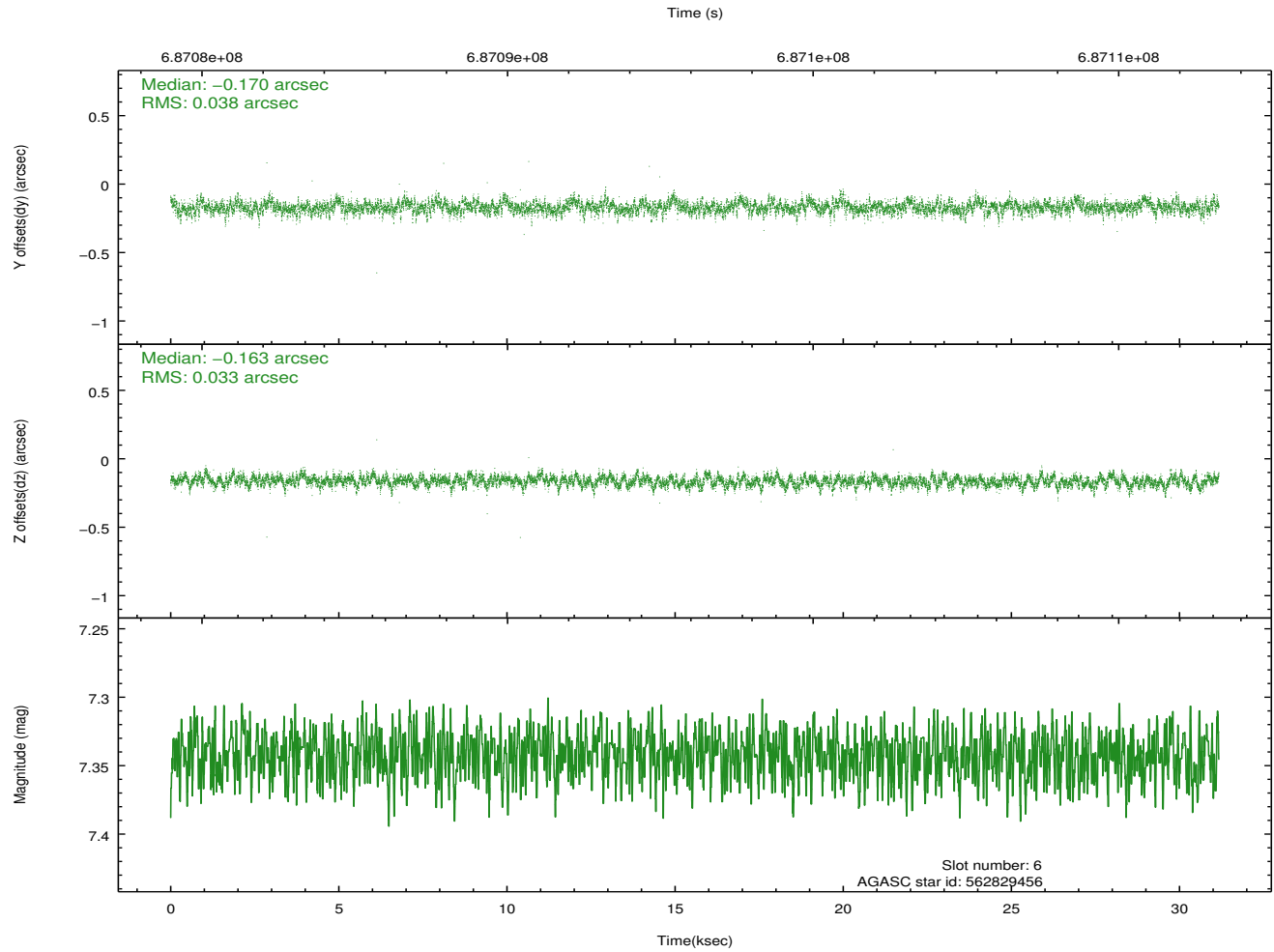
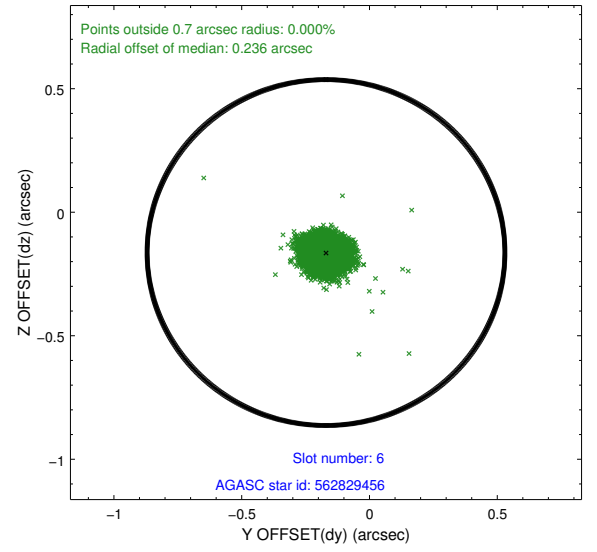
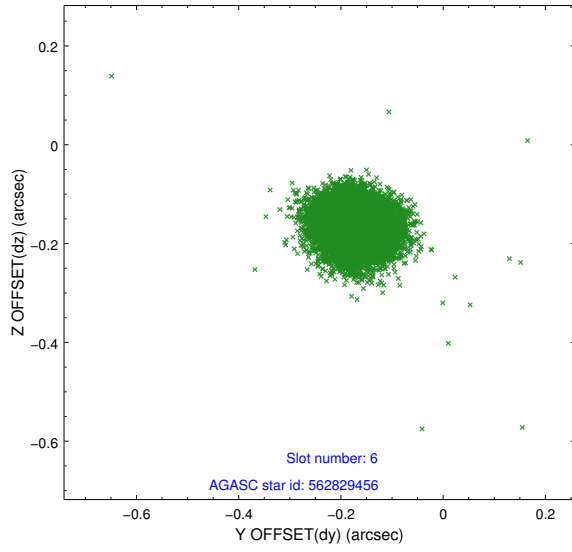
2.4.2 Slot 4



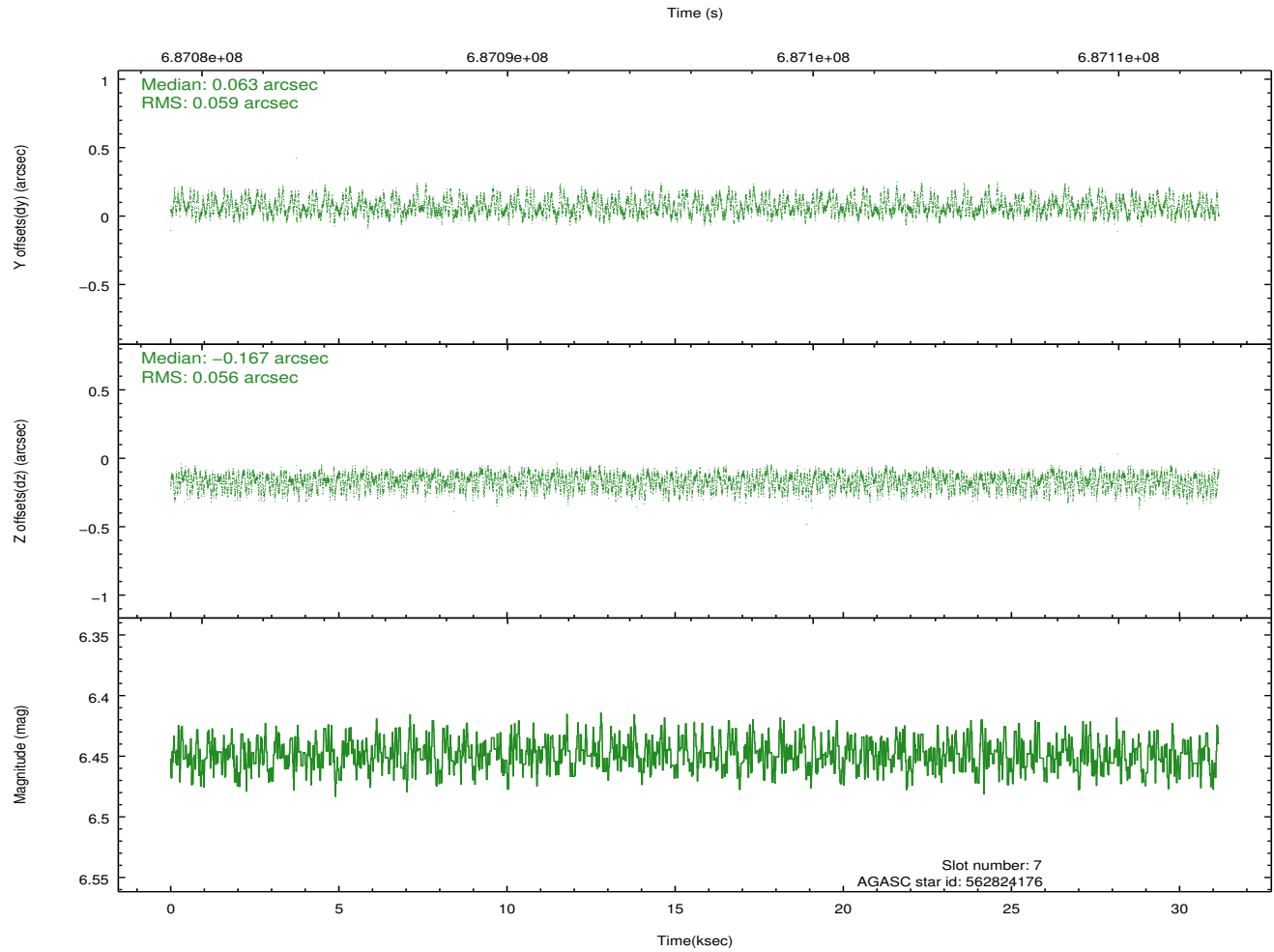
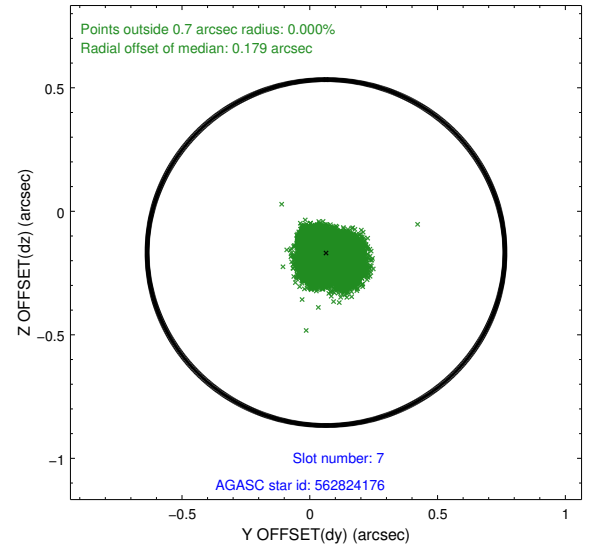
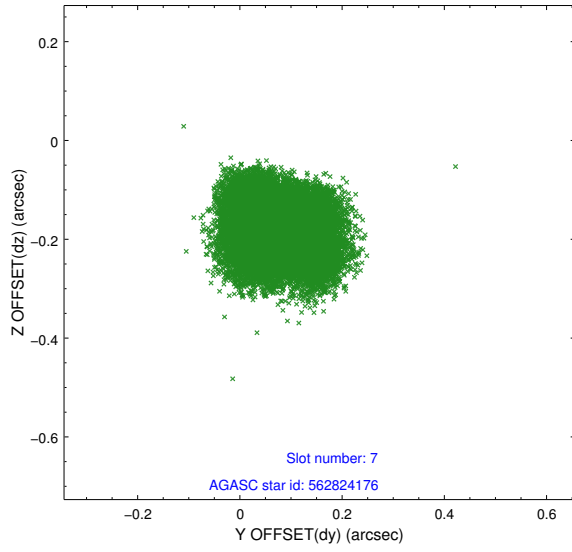
2.4.3 Slot 5



2.4.4 Slot 6

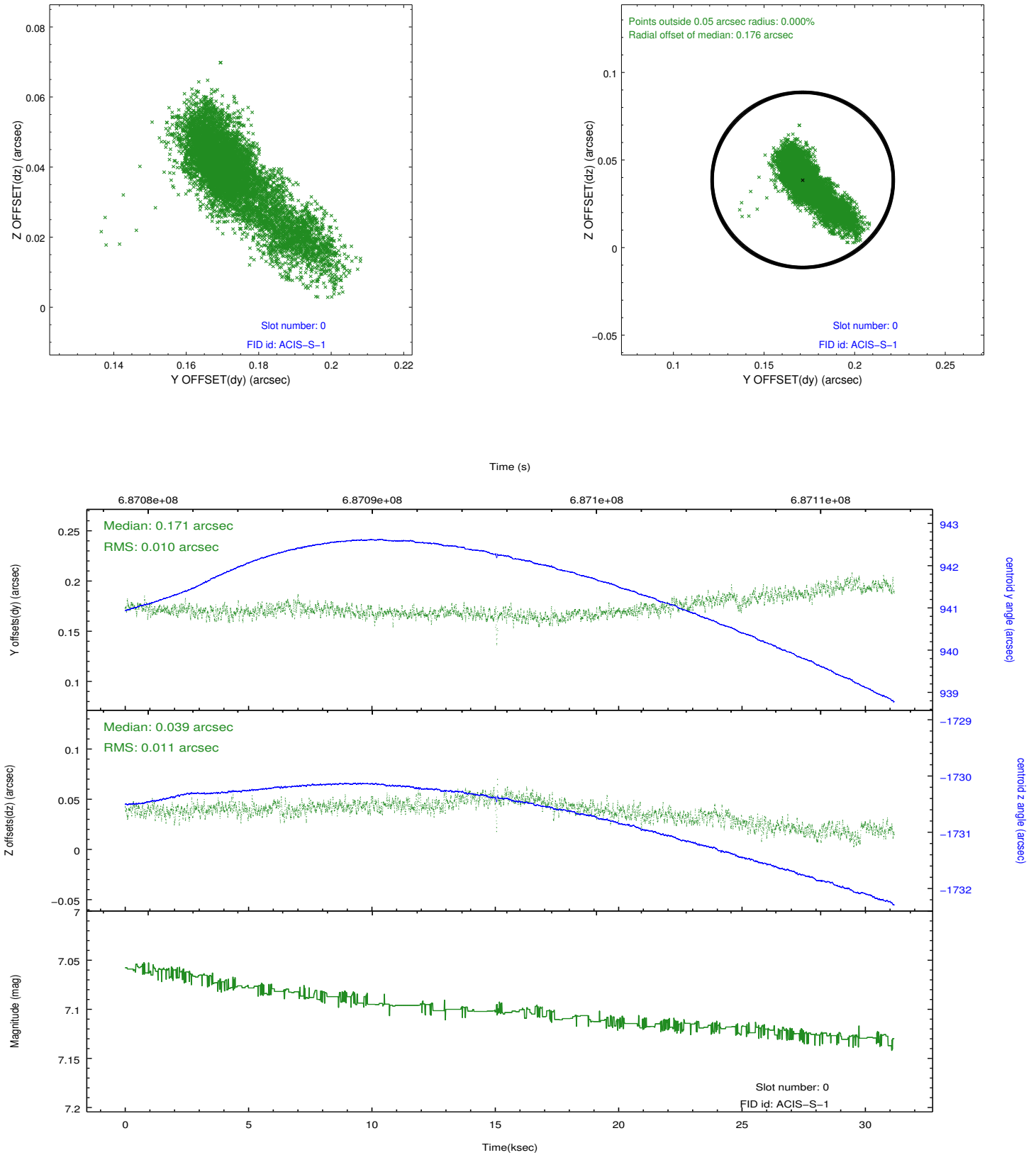


2.4.5 Slot 7

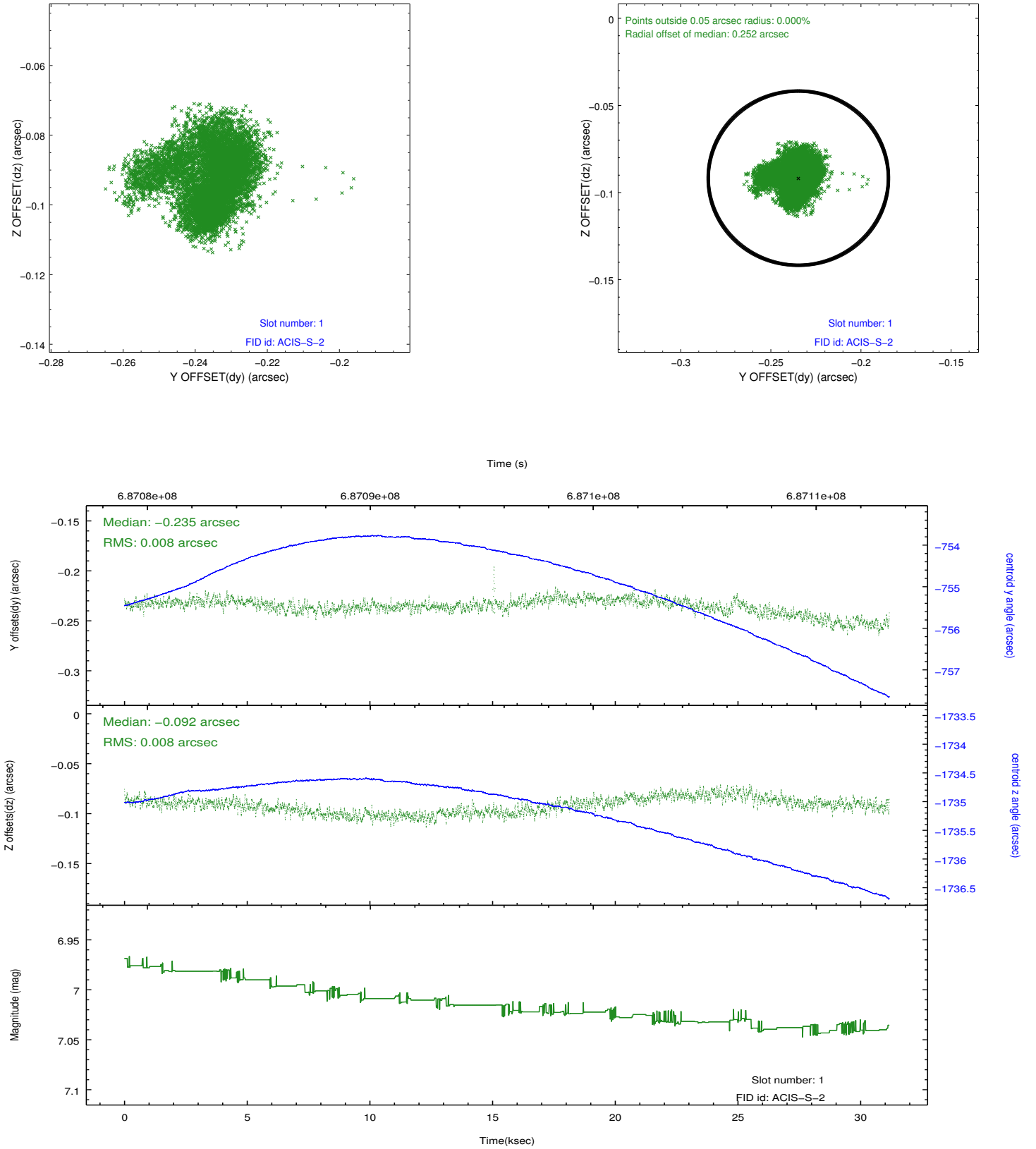


2.5 FID Slots

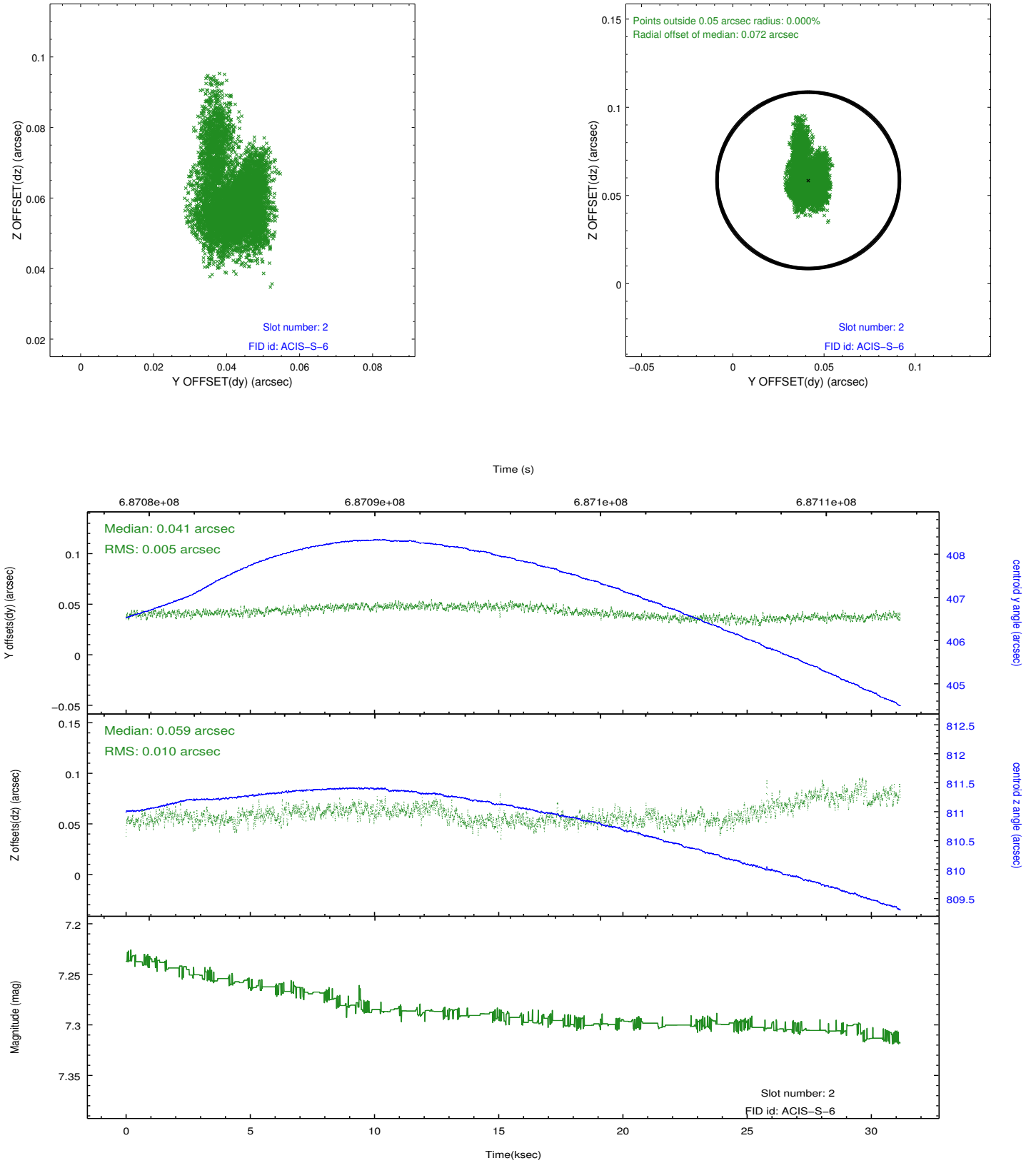
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.060633060455

A.2 Comments