

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21492 - L2 Version 1
Chandra X-Ray Center

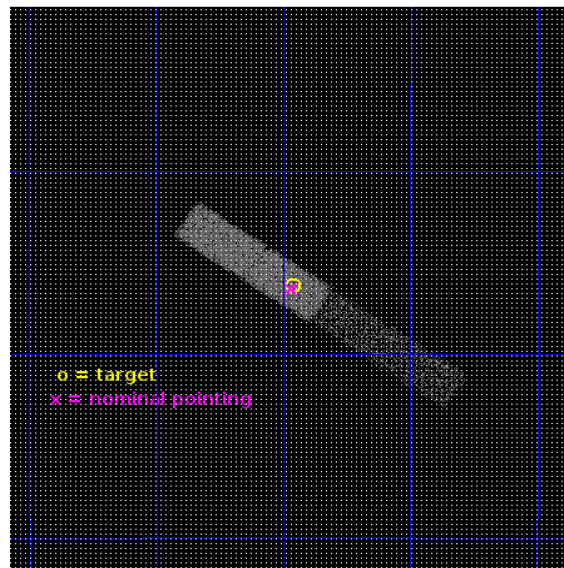
L2 Processing Date : Jul 26 2019

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1 Front

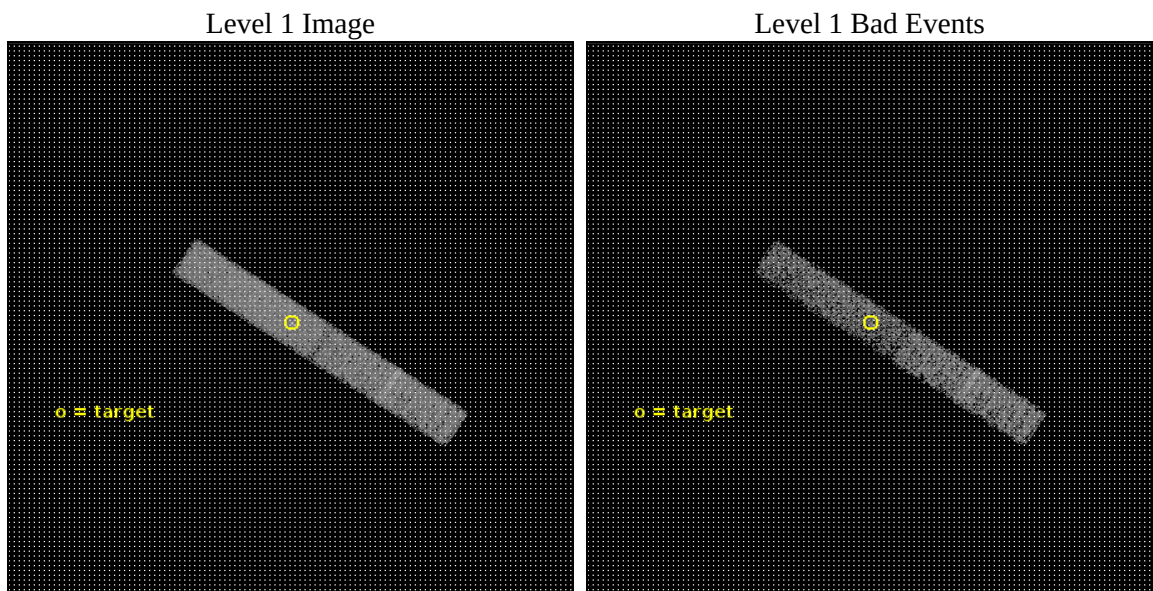
seq_num	703785	Sequence number
obs_id	21492	Observation id
title	Synchrotron emission in low-redshift quasars	Proposal title
observer	Mark Birkinshaw	Principal investigator
object	MRC1010-271	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.115417	Observer's specified target RA [deg]
dec_targ	-27.437861	Observer's specified target Dec [deg]
ra_nom	153.11688687025	Nominal RA [deg]
dec_nom	-27.440373716762	Nominal Dec [deg]
roll_nom	213.61420019235	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10103.399732232	Sum of GTIs [s]
livetime	9662.7770966259	Livetime [s]
ontime6	10103.399732232	Sum of GTIs [s]
ontime7	10103.399732232	Sum of GTIs [s]
l2events	14747	Number of level 2 events



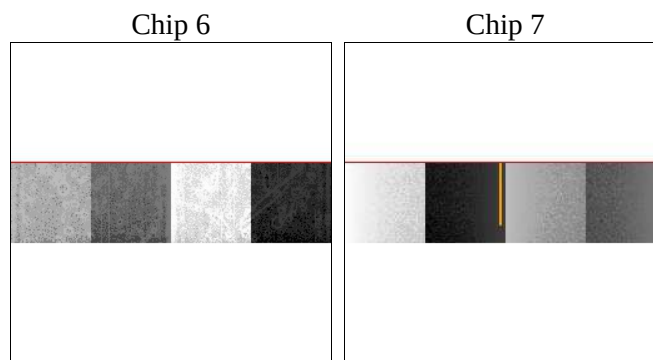
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	10103.399732232	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime6	10103.399732232	Sum of GTIs [s]
date	2019-07-26T05:42:06	Date and time of file creation	ontime7	10103.399732232	Sum of GTIs [s]
revision	1	Processing version of data	l1events	50333	Number of level 1 events

2.1.4 Events

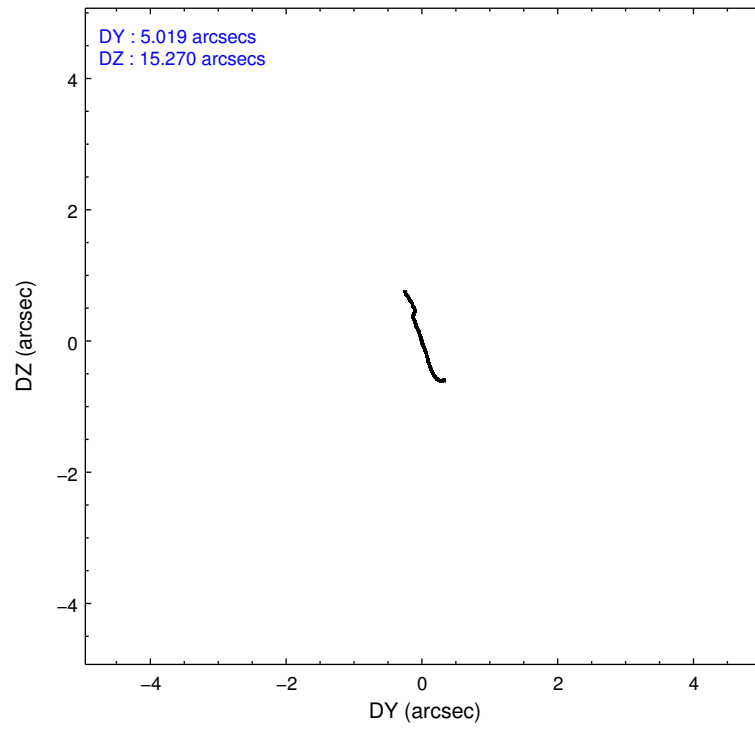
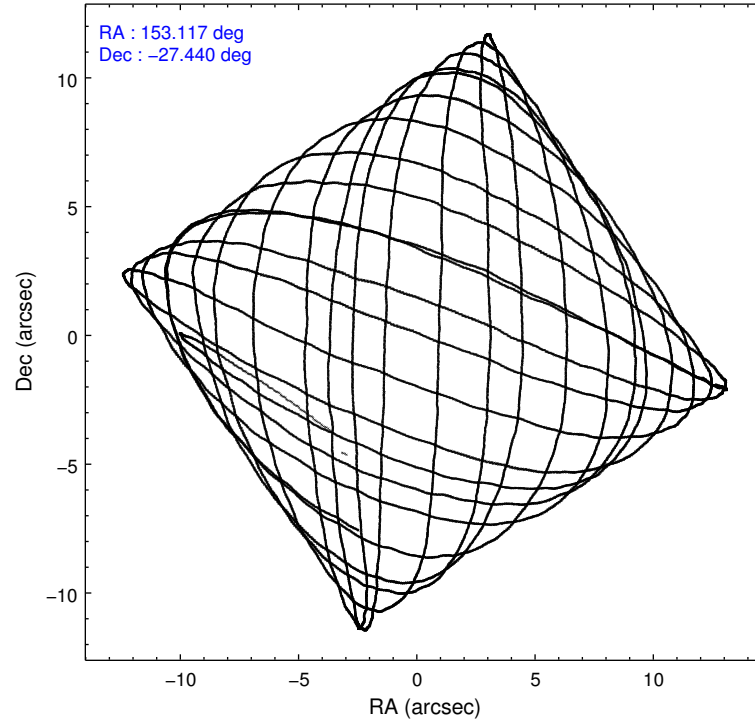
	ccd 6	ccd 7
level 1 events	23614	26719
rejected events	20920	13783
rejected %	88%	51%

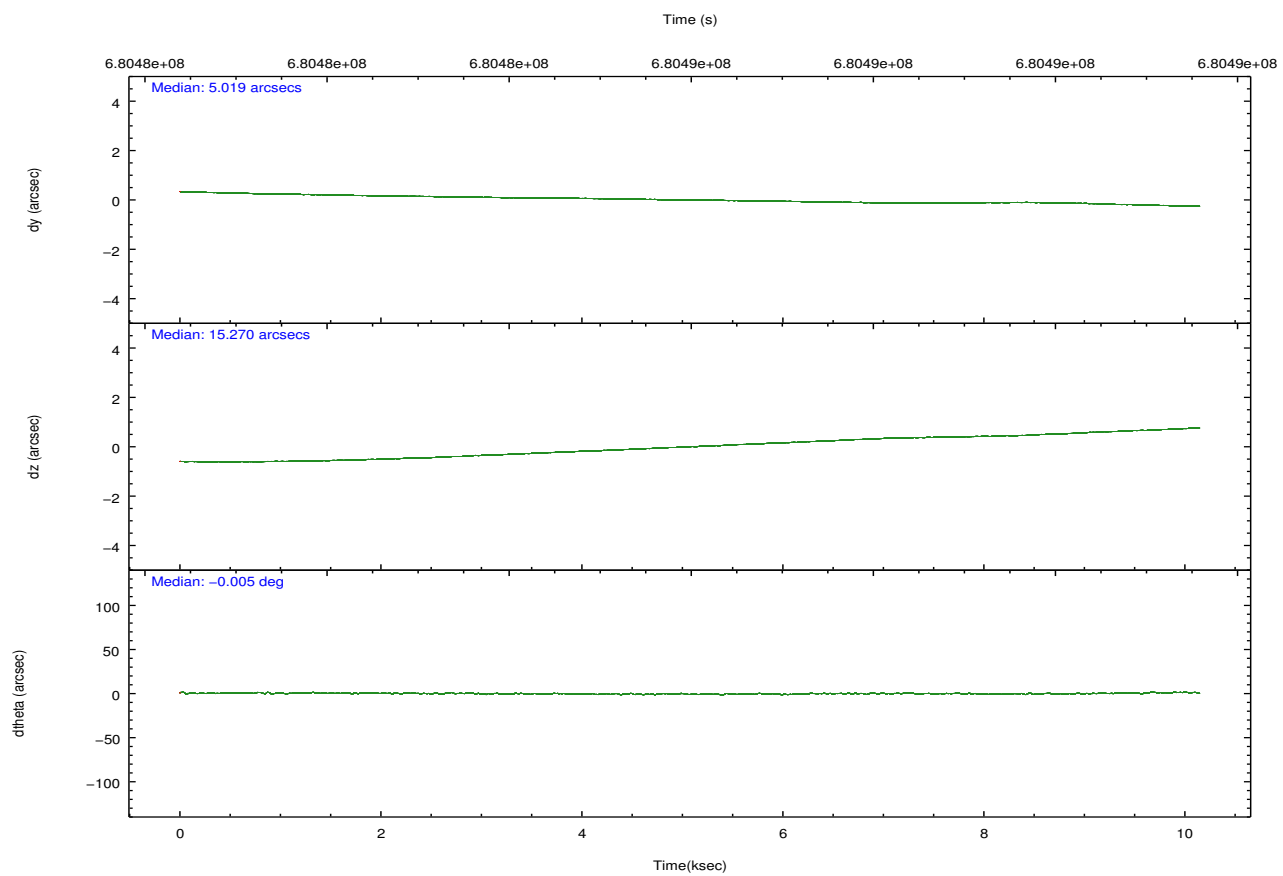
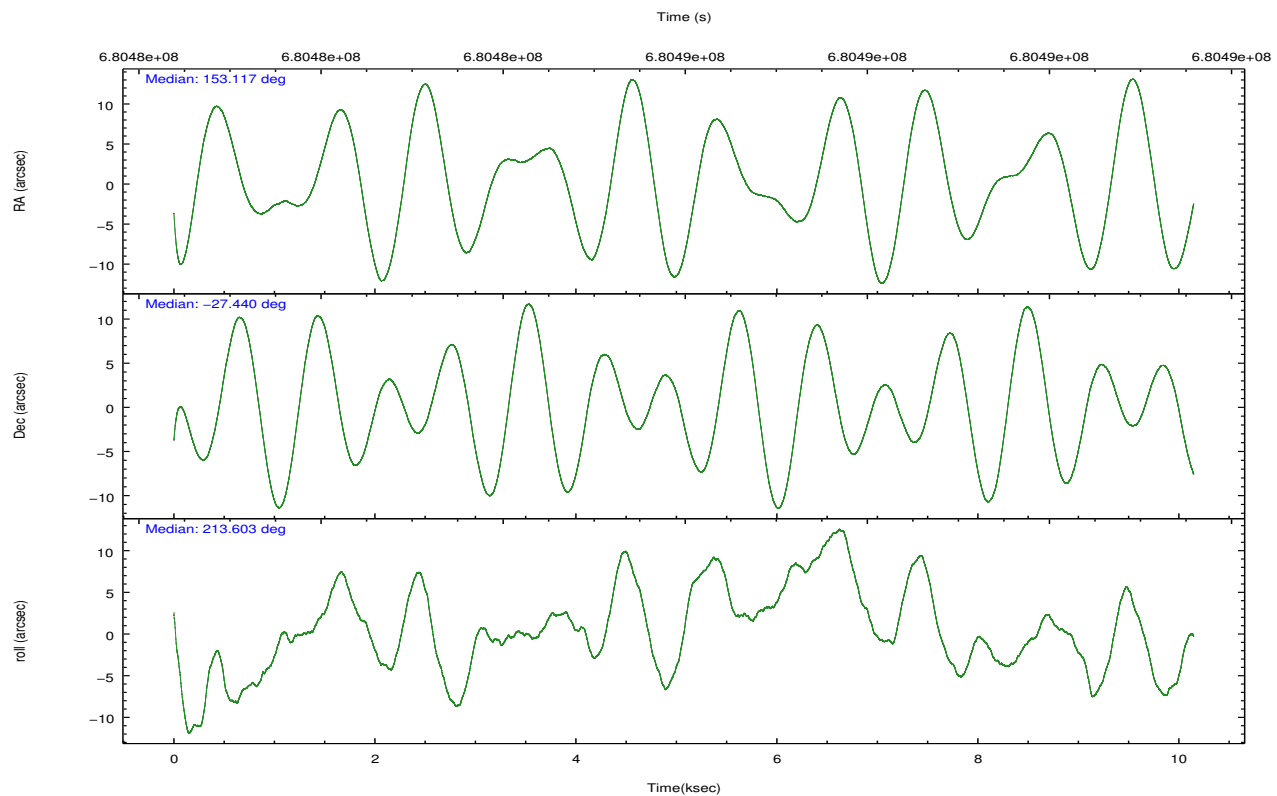
	ccd 6	ccd 7
grade 0 events	728	1386
	3%	5%
grade 1 events	5	41
	0%	0%
grade 2 events	567	2611
	2%	9%
grade 3 events	383	1348
	1%	5%
grade 4 events	397	1288
	1%	4%
grade 5 events	820	2643
	3%	9%
grade 6 events	619	6303
	2%	23%
grade 7 events	20095	11099
	85%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	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	153.130289	153.116886870253	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-27.415621	-27.44037371676193	Subarray start row	385	385
[deg] Pointing Roll	213.463752	213.6142001923498	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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	680481052.184000	680479797.78985			
Observation start date	2019-07-25T22:29:43	2019-07-25T22:09:57			
[s] Observation end time (MET)	680491052.184000	680492029.62808			
Observation end date	2019-07-26T01:16:23	2019-07-26T01:33:49			
Read mode	TIMED	TIMED			

2.3 Aspect



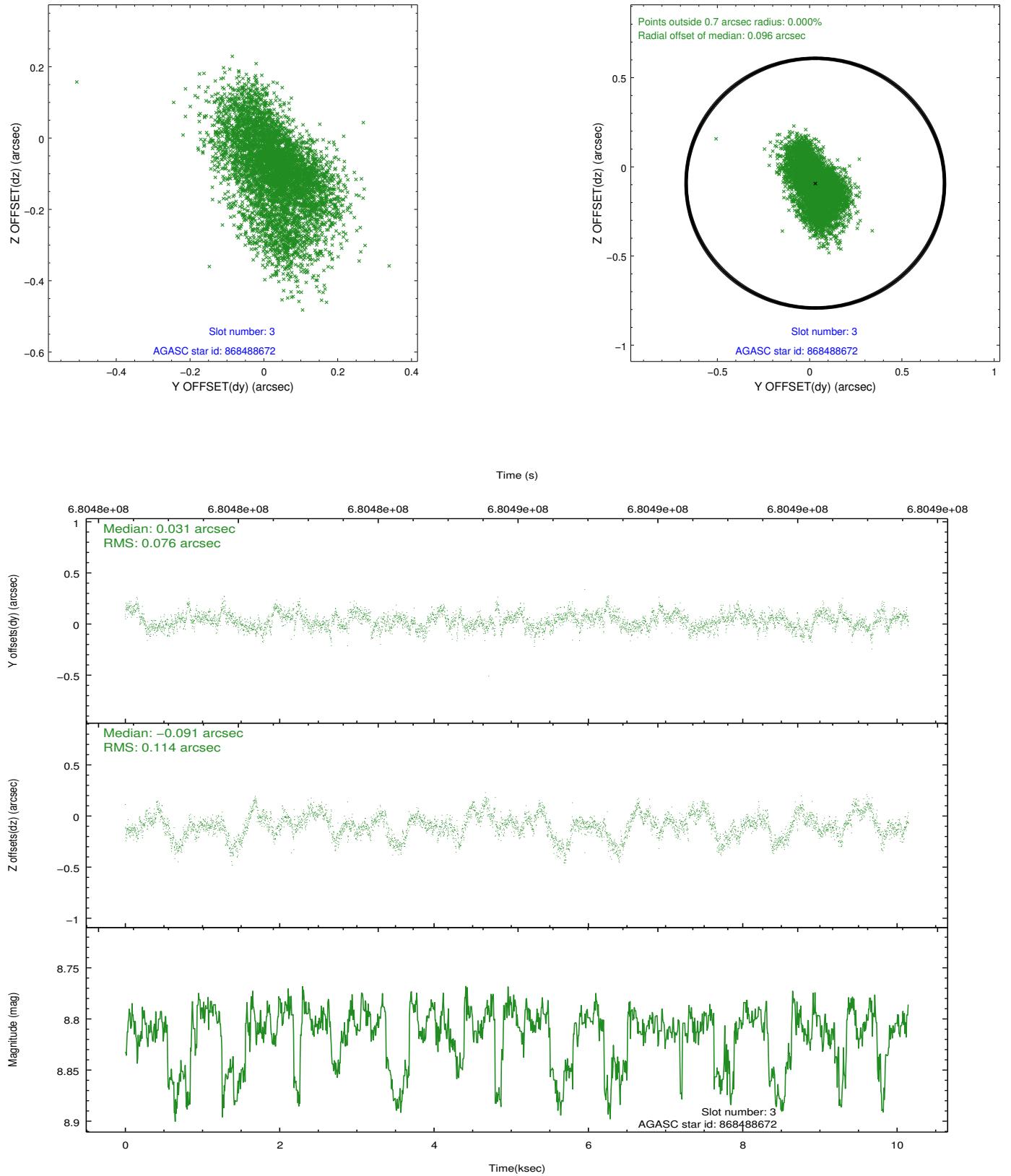


Slot Statistics

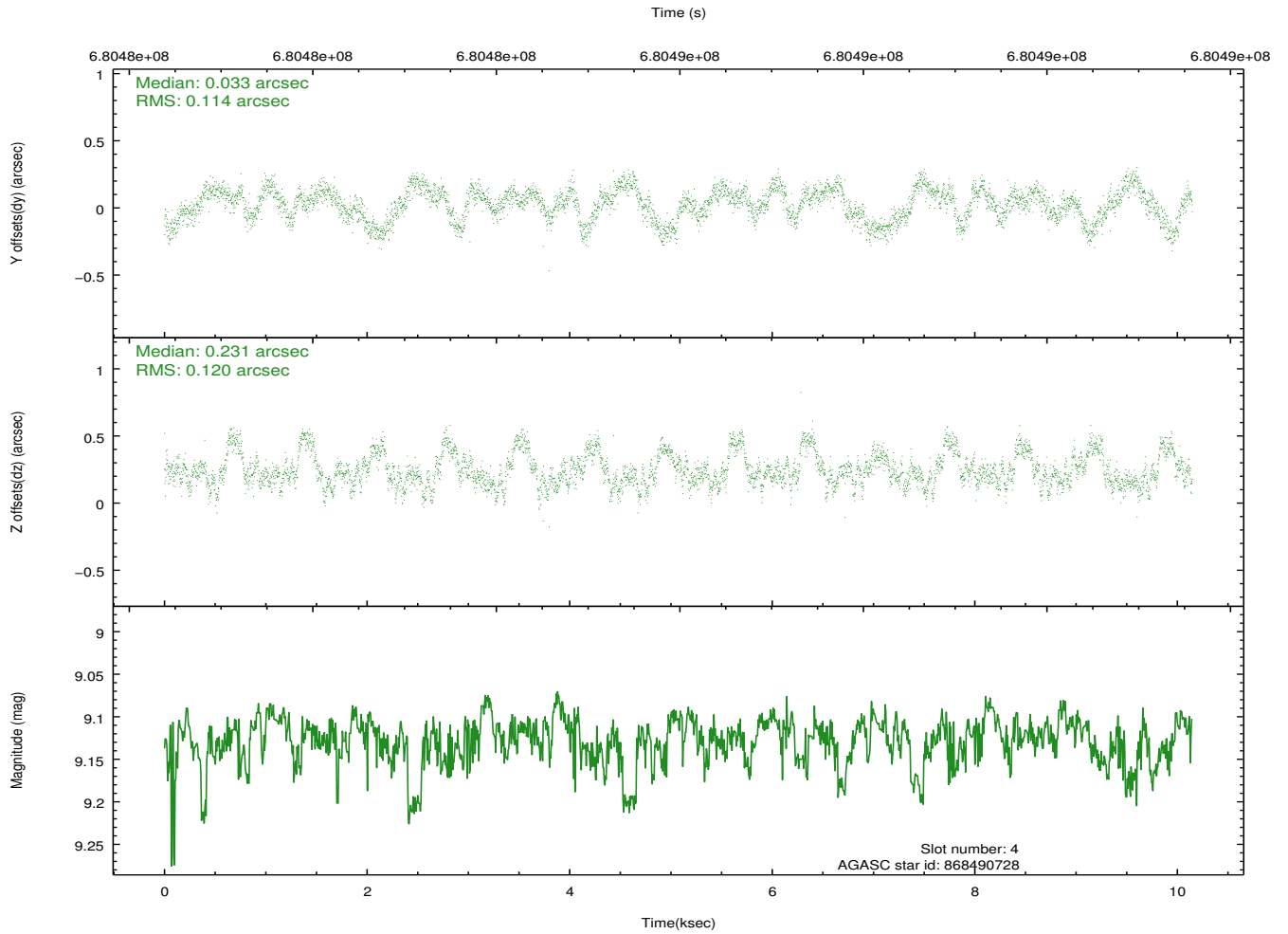
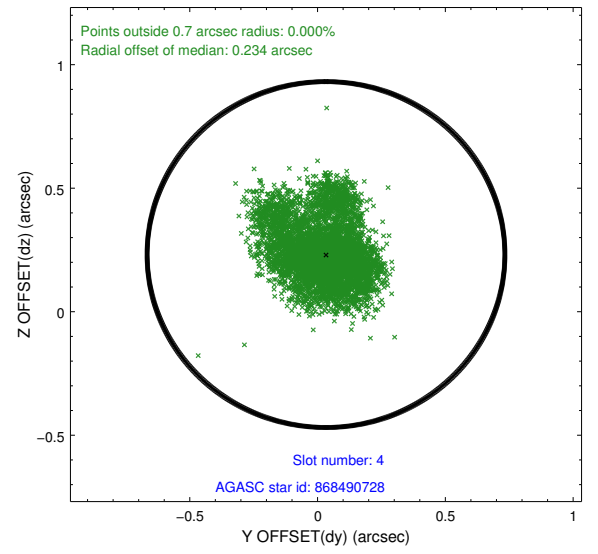
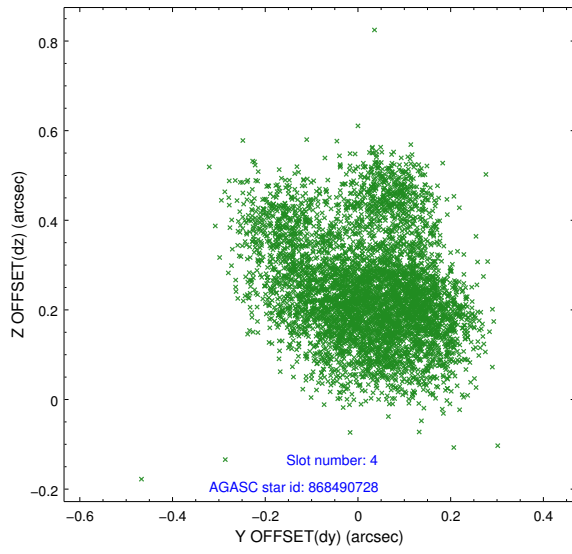
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2476	1.000	-0.286	-0.090	0.013	0.021	0.000000	0.000000	-757.98	-1736
1	FID		ACIS-S-4	7.24	2476	1.000	0.588	0.162	0.011	0.019	0.000000	0.000000	2155.89	171
2	FID		ACIS-S-5	7.24	2476	1.000	-0.333	-0.062	0.010	0.017	0.000000	0.000000	-1810.24	165
3	GUIDE	used	868488672	8.81	4944	1.000	0.031	-0.091	0.147	0.244	153.945909	-27.446838	-2107.48	1537
4	GUIDE	used	868490728	9.13	4939	1.000	0.033	0.231	0.180	0.283	153.637119	-27.036277	-2108.70	-239
5	GUIDE	used	868491704	8.32	4948	1.000	-0.044	-0.241	0.085	0.138	153.722759	-27.308610	-1790.93	727
6	GUIDE	used	868494048	9.84	4943	1.000	-0.060	-0.030	0.222	0.366	153.299990	-26.540275	-2193.39	-2327
7	GUIDE	used	868489128	10.13	4935	1.000	0.051	0.113	0.277	0.437	153.051059	-26.958097	-695.98	-1514

2.4 Star Slots

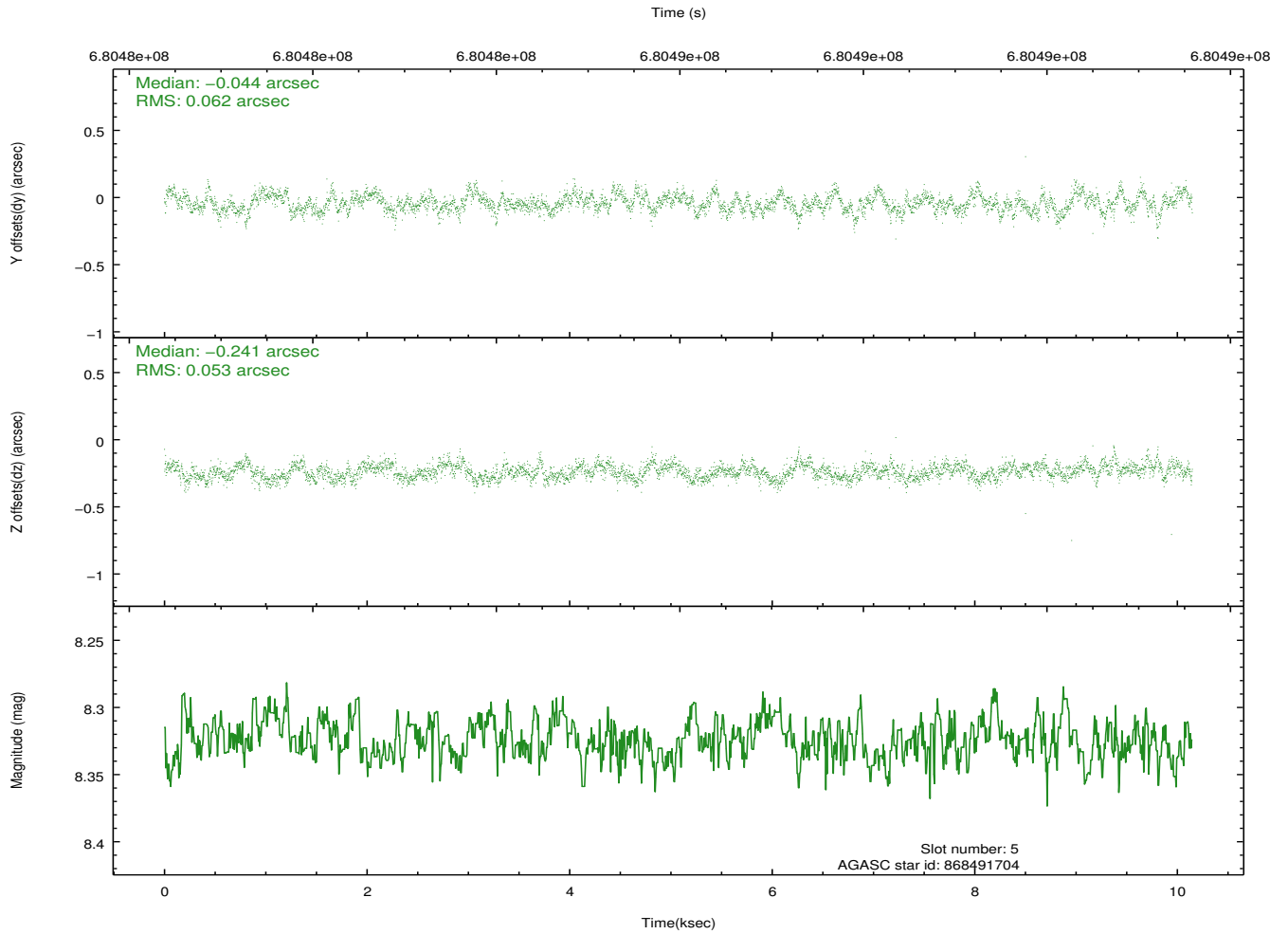
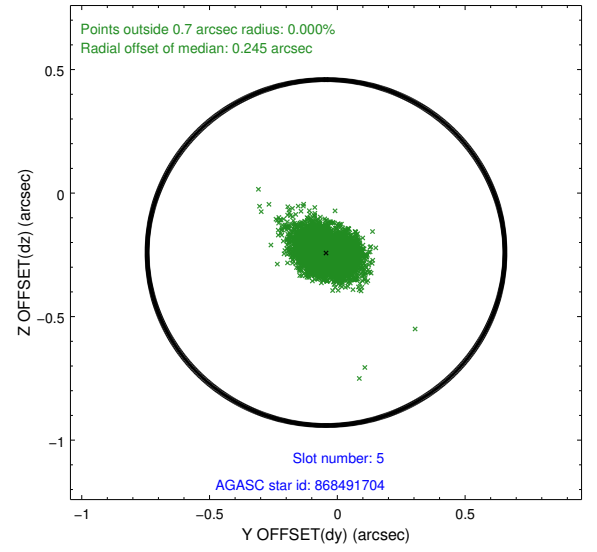
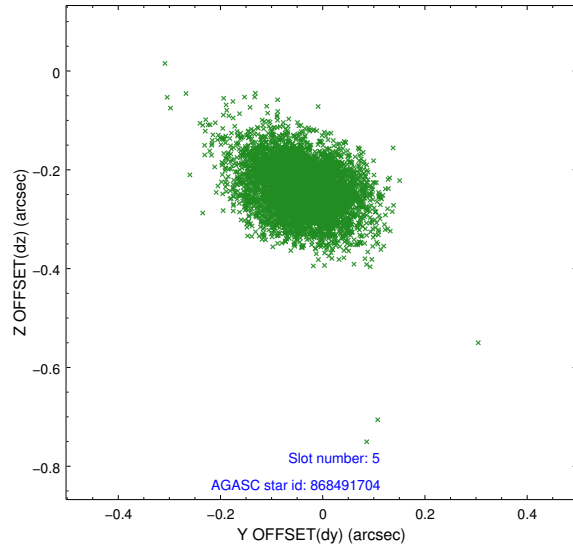
2.4.1 Slot 3



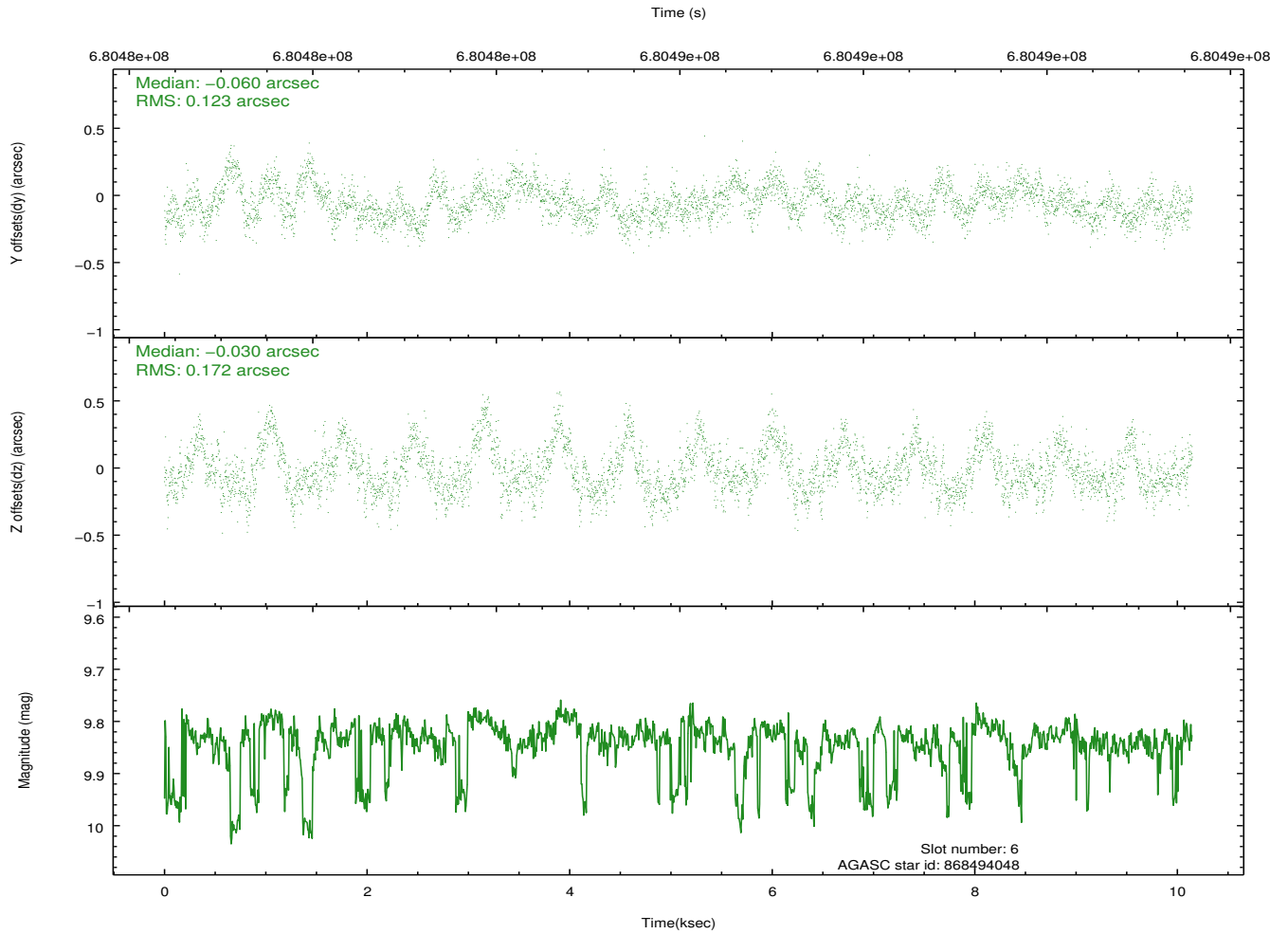
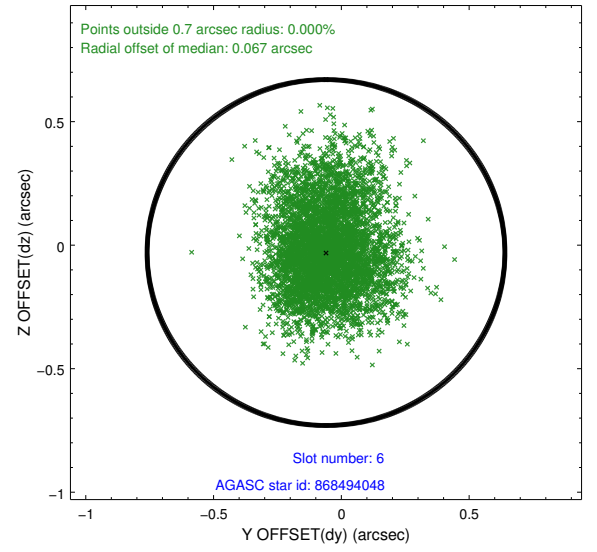
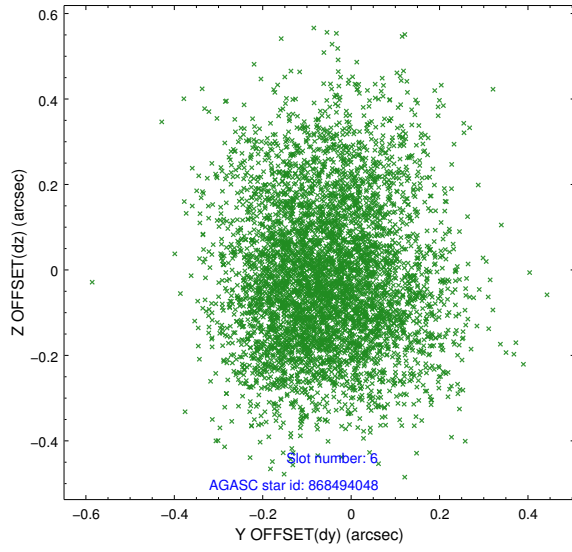
2.4.2 Slot 4



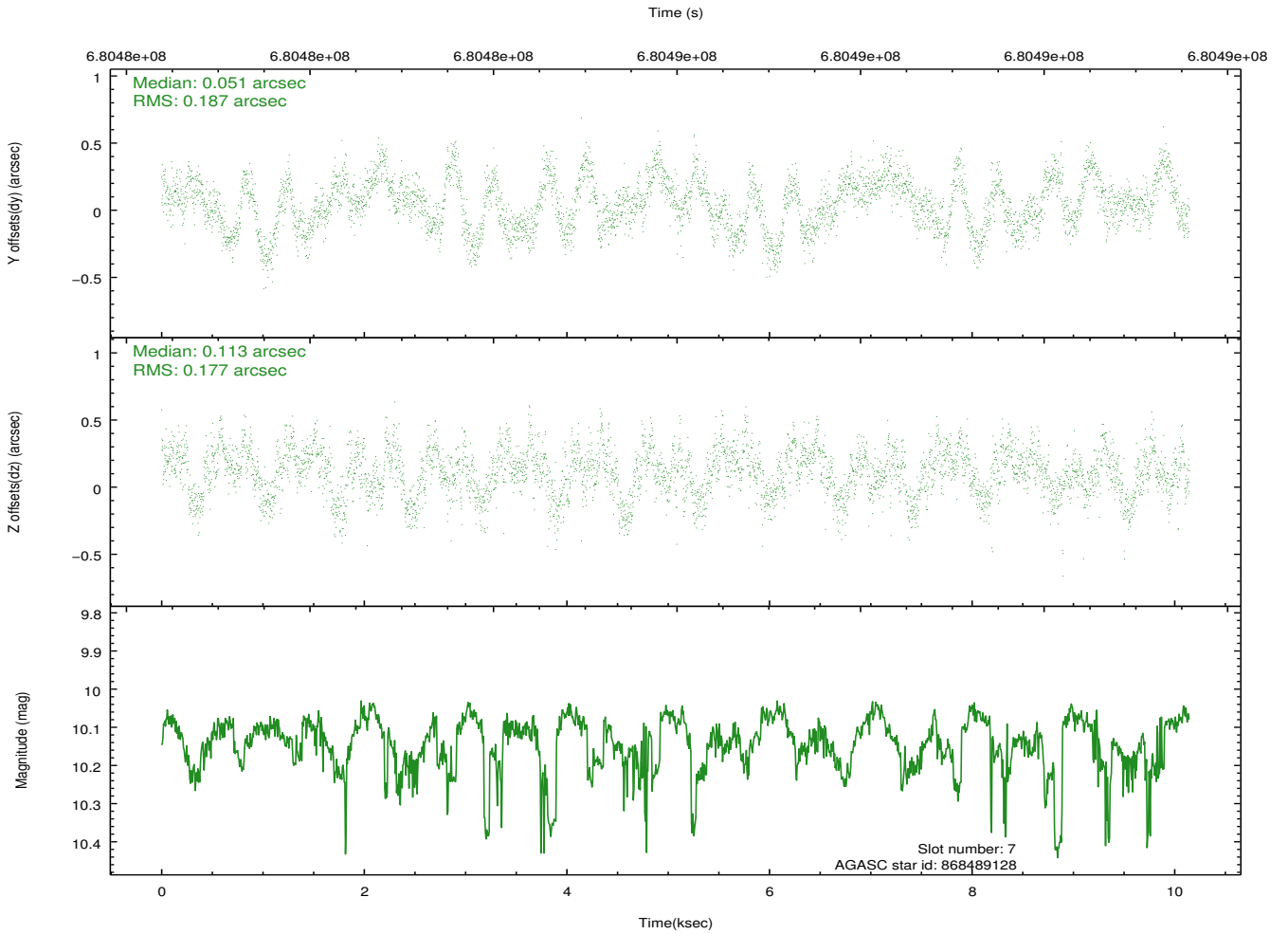
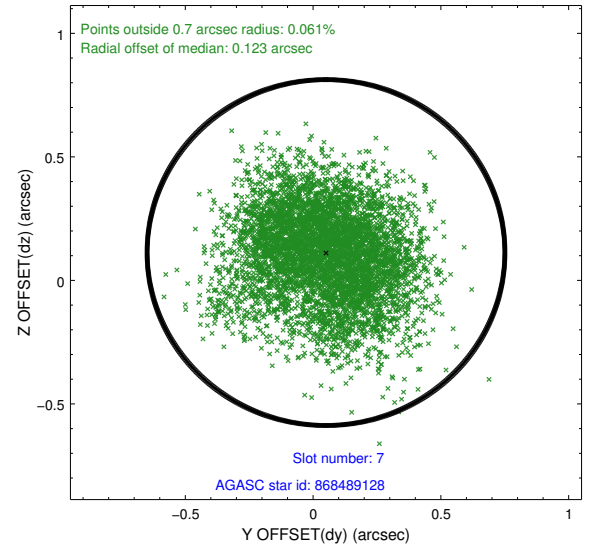
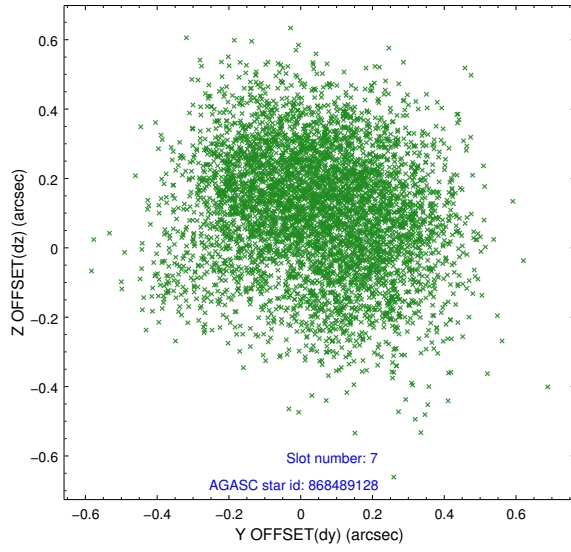
2.4.3 Slot 5



2.4.4 Slot 6

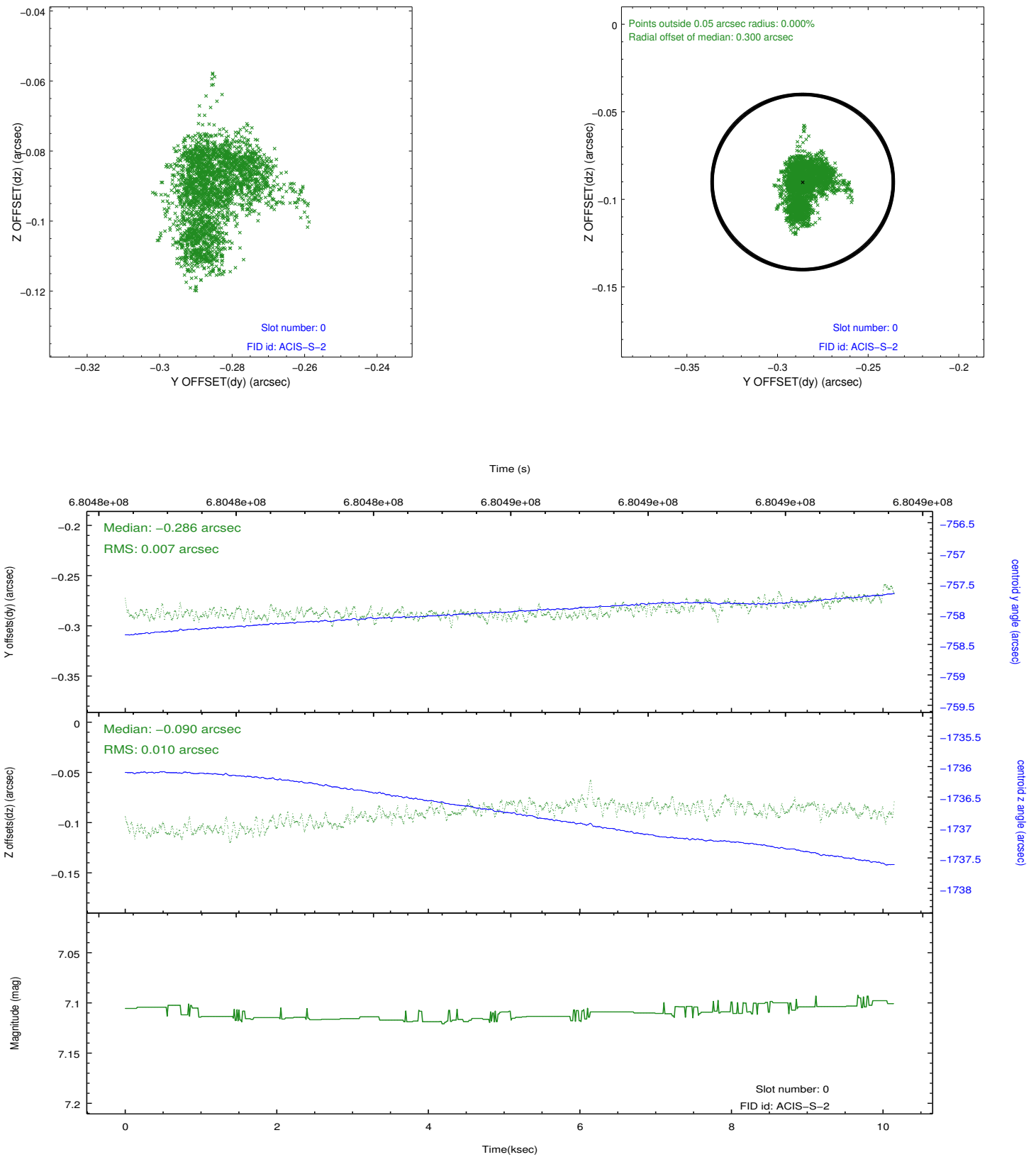


2.4.5 Slot 7

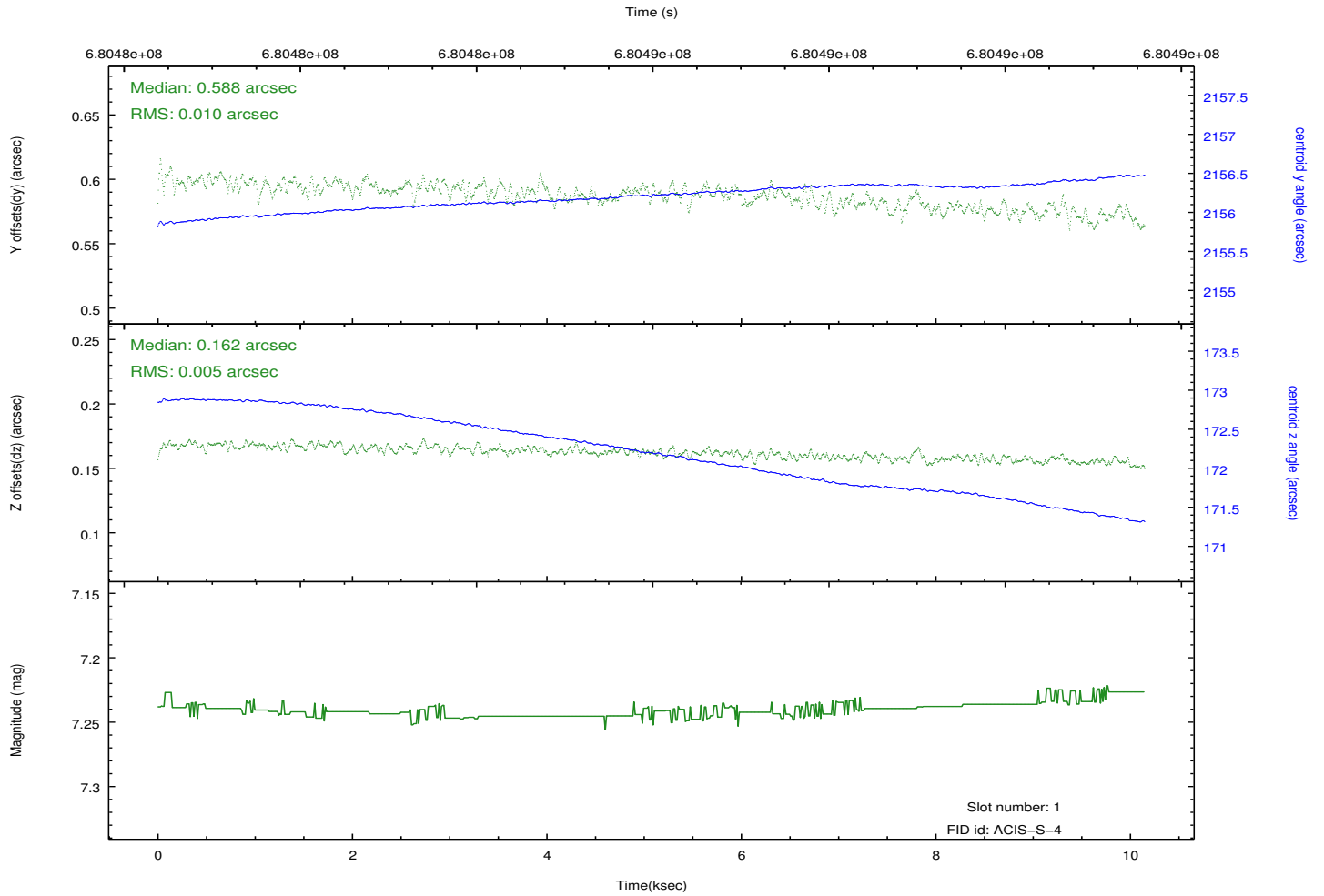
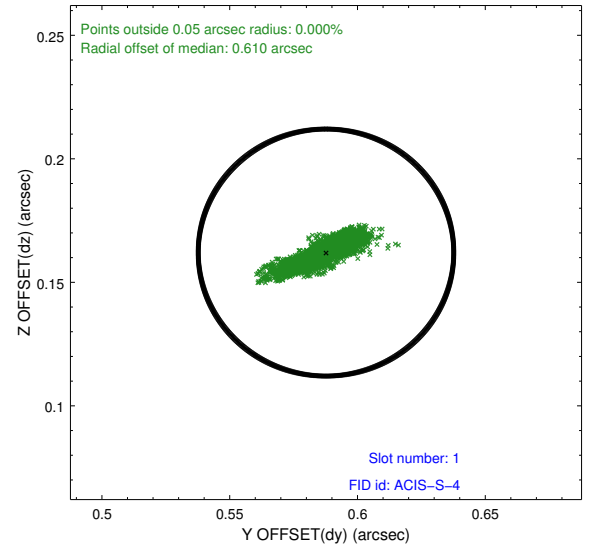
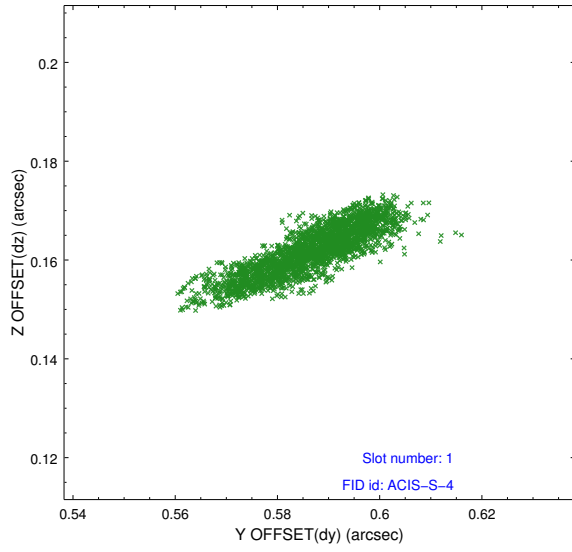


2.5 FID Slots

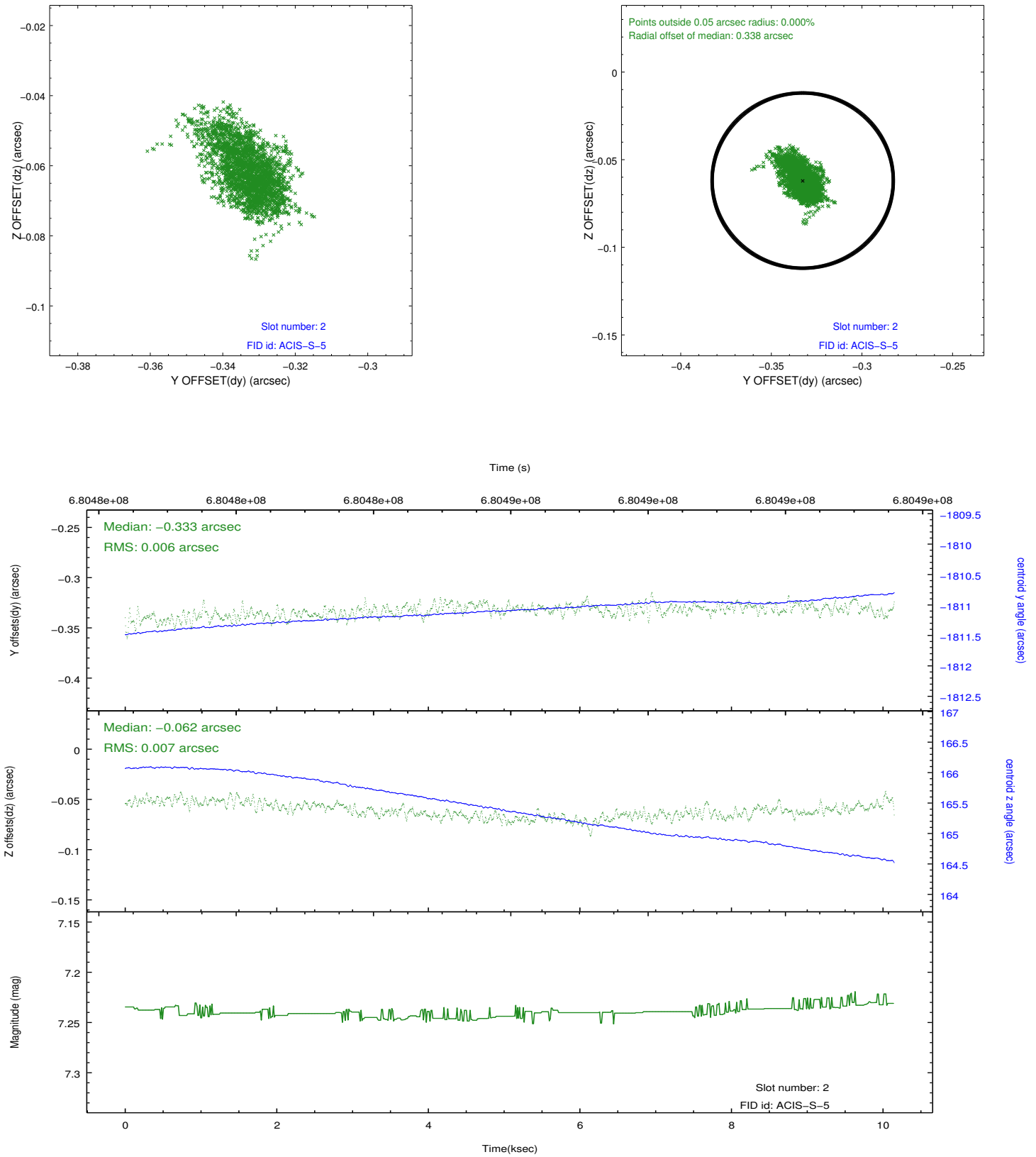
2.5.1 Slot 0



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)	2019.07.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.103399732232

A.2 Comments

Roll preference met.