

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22250 - L2 Version 1
Chandra X-Ray Center

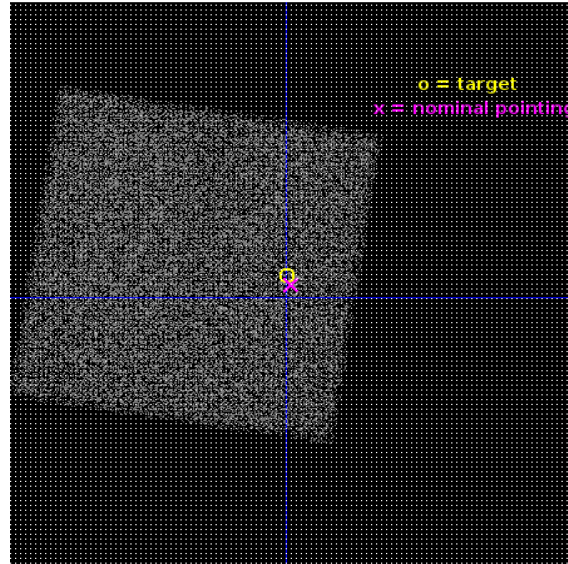
L2 Processing Date : Jun 9 2019

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1 Front

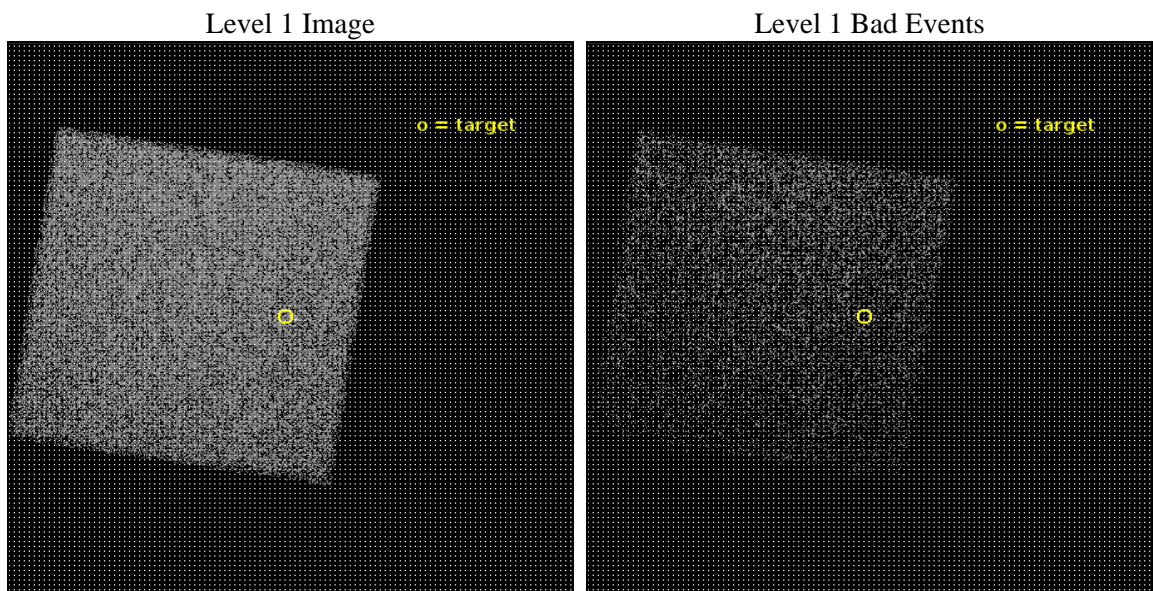
seq_num	703901	Sequence number
obs_id	22250	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	2MASXJ16504275p0436180_s2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	252.749084	Observer's specified target RA [deg]
dec_targ	4.676472	Observer's specified target Dec [deg]
ra_nom	252.74730412455	Nominal RA [deg]
dec_nom	4.672383719415	Nominal Dec [deg]
roll_nom	188.8090301253	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10092.0	Sum of GTIs [s]
livetime	9955.8045931655	Livetime [s]
ontime7	10092.0	Sum of GTIs [s]
l2events	42213	Number of level 2 events



2 OBI

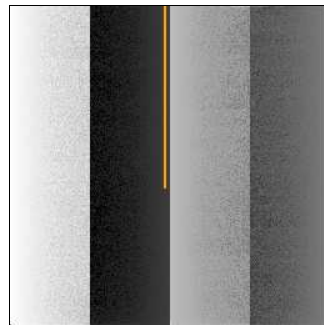
2.1 OBI

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	10.7.1	Processing system revision	ontime	10092.0	Sum of GTIs [s]
caldsver	4.8.3	 	ontime7	10092.0	Sum of GTIs [s]
date	2019-06-10T03:17:28	Date and time of file creation	l1events	98367	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

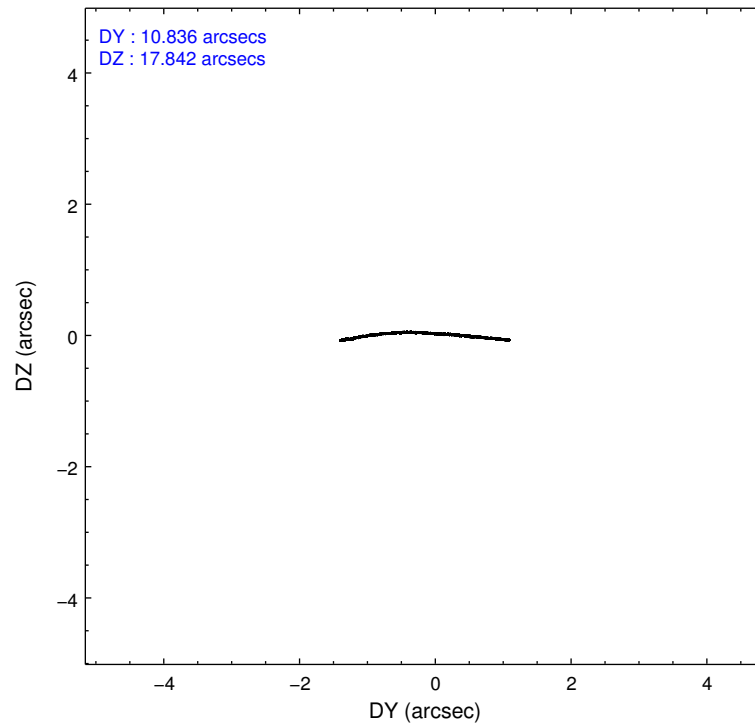
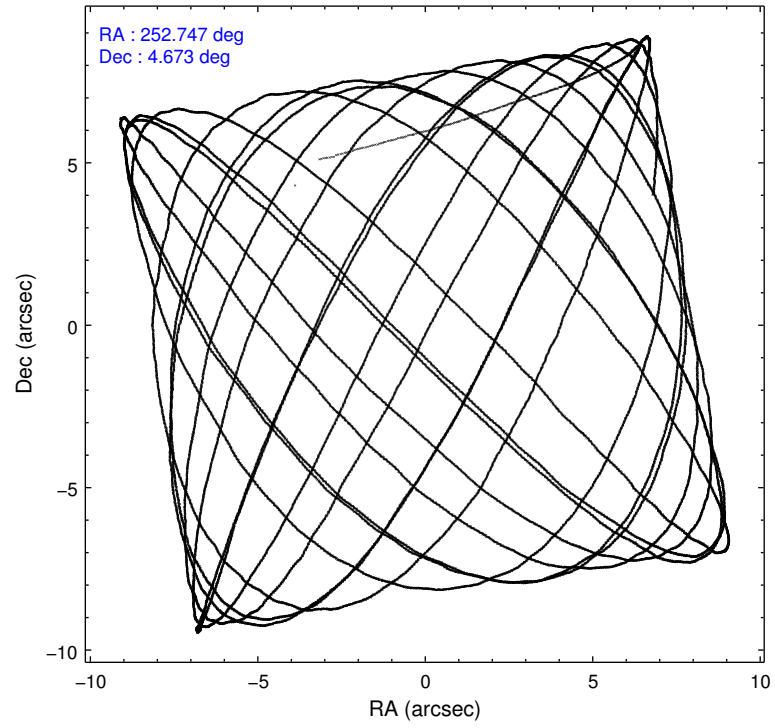
	ccd 7
level 1 events	98367
rejected events	55050
rejected %	55%

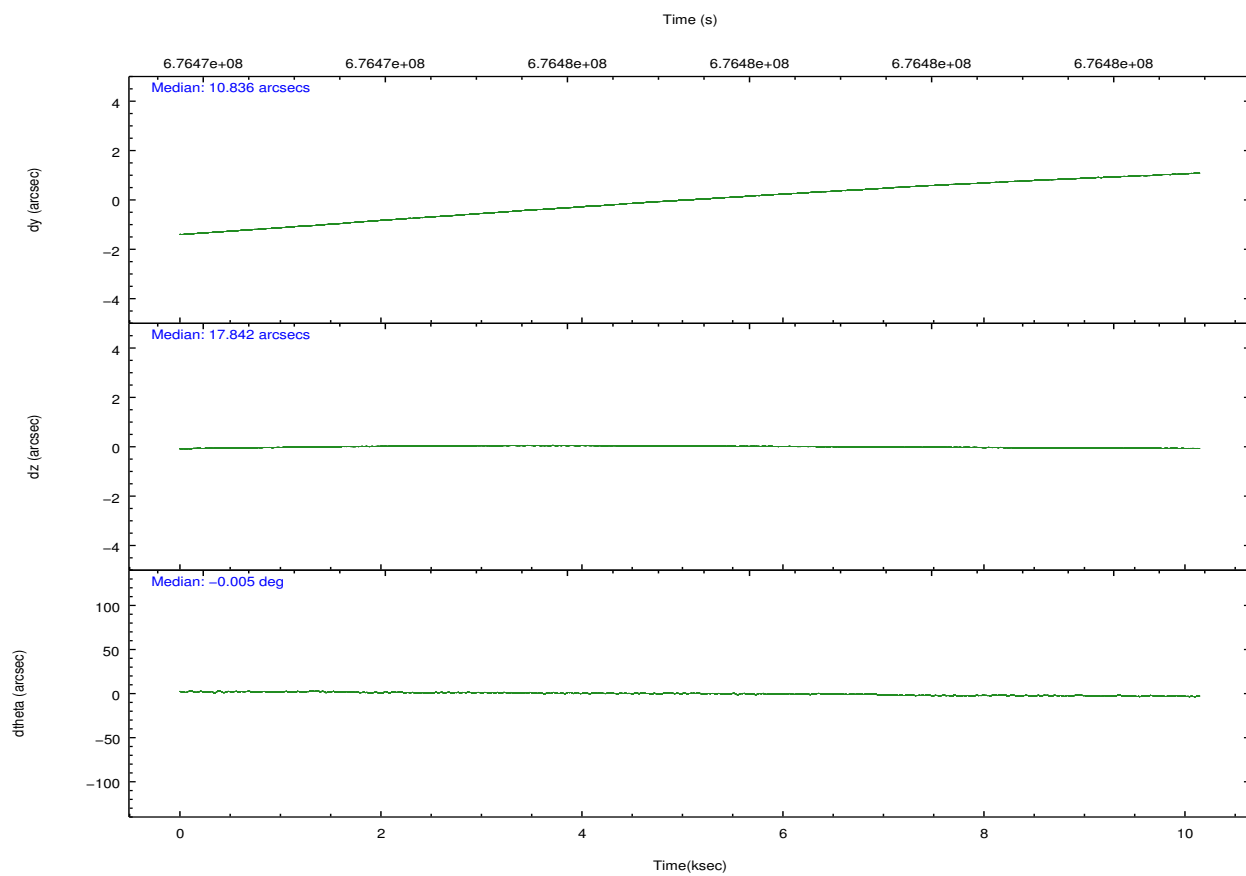
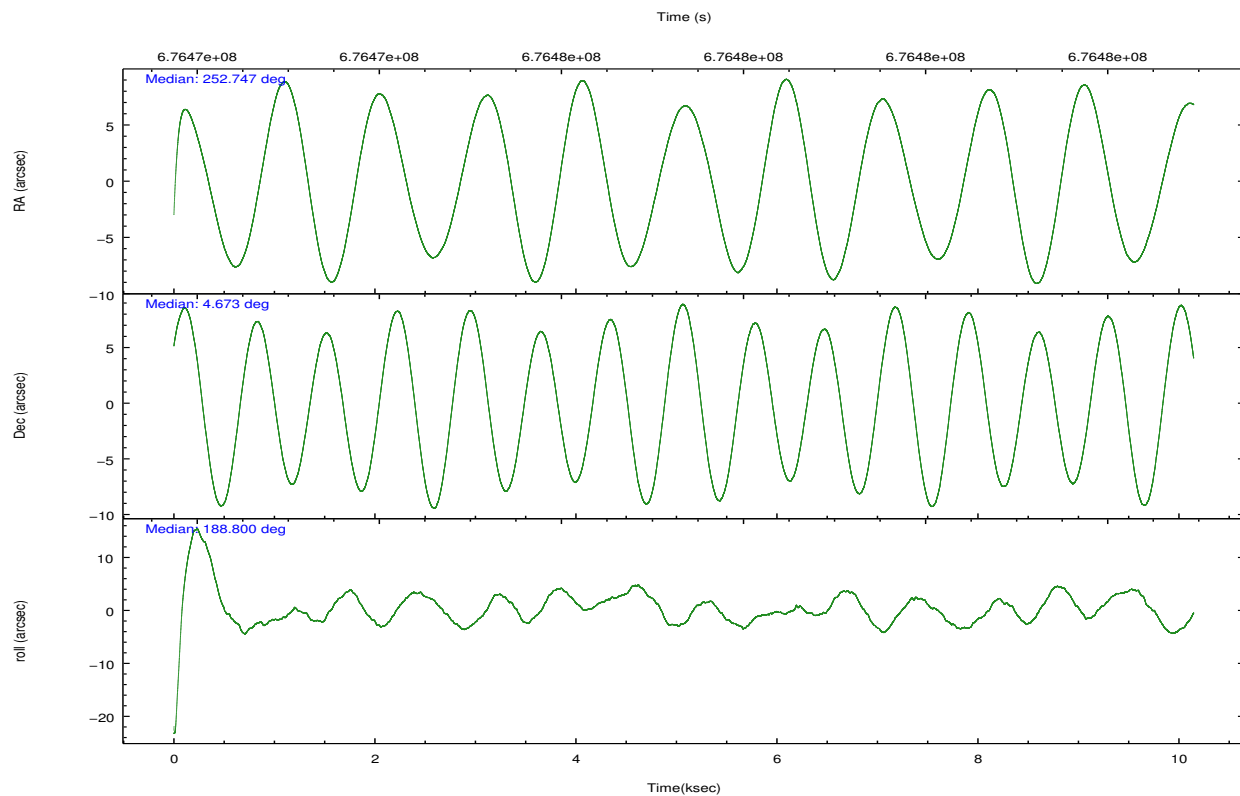
	ccd 7
grade 0 events	3710
	3%
grade 1 events	146
	0%
grade 2 events	9412
	9%
grade 3 events	3429
	3%
grade 4 events	3457
	3%
grade 5 events	9954
	10%
grade 6 events	23326
	23%
grade 7 events	44933
	45%

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	252.768510	252.7473041245452	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.689831	4.672383719415	Alternating exposures requested	N	N
[deg] Pointing Roll	188.650718	188.809030125305	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	676472406.184000	676471396.67422			
Observation start date	2019-06-09T12:58:57	2019-06-09T12:43:16			
[s] Observation end time (MET)	676482406.184000	676483917.56247			
Observation end date	2019-06-09T15:45:37	2019-06-09T16:11:57			
Read mode	TIMED	TIMED			

2.3 Aspect



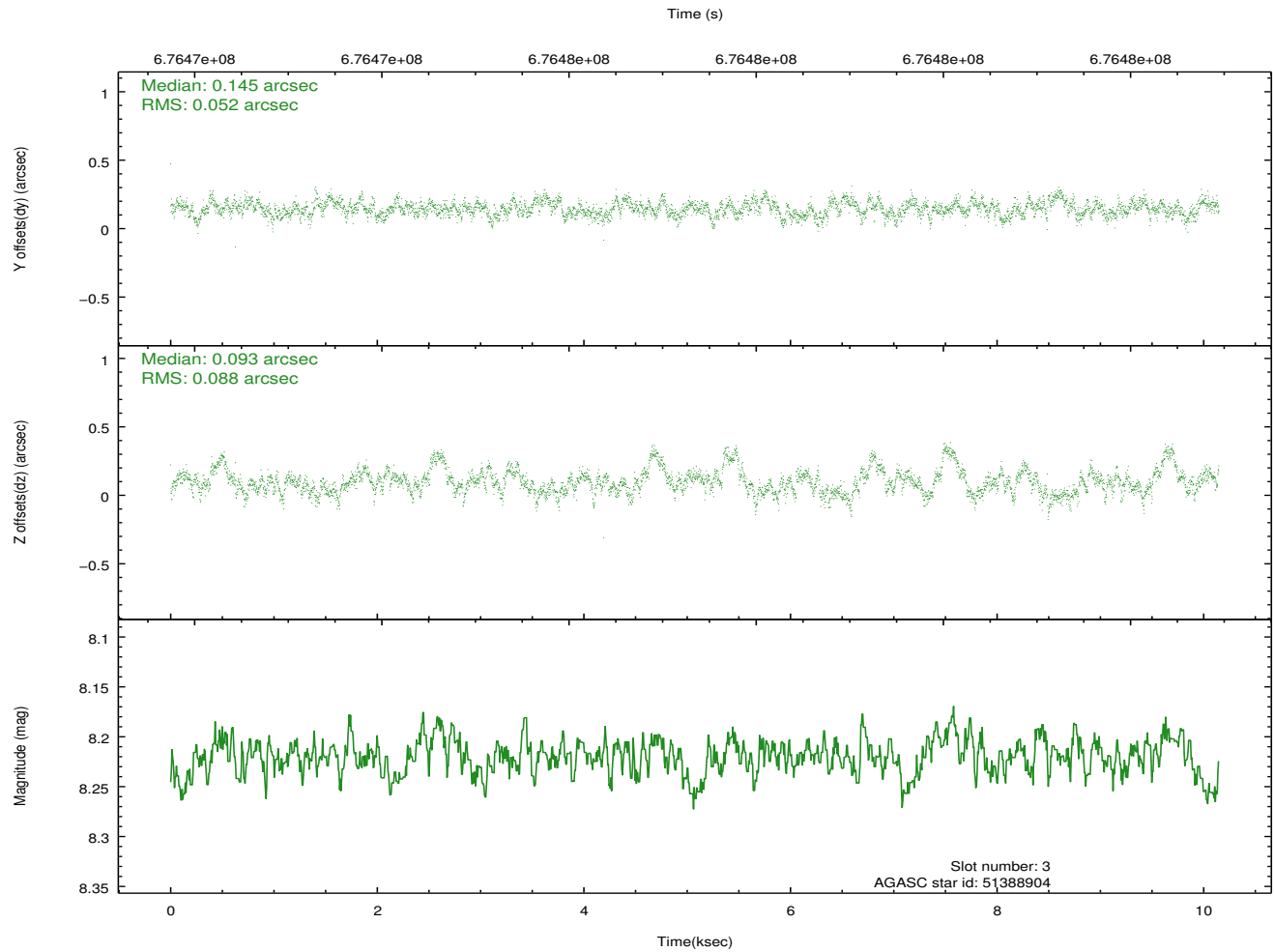
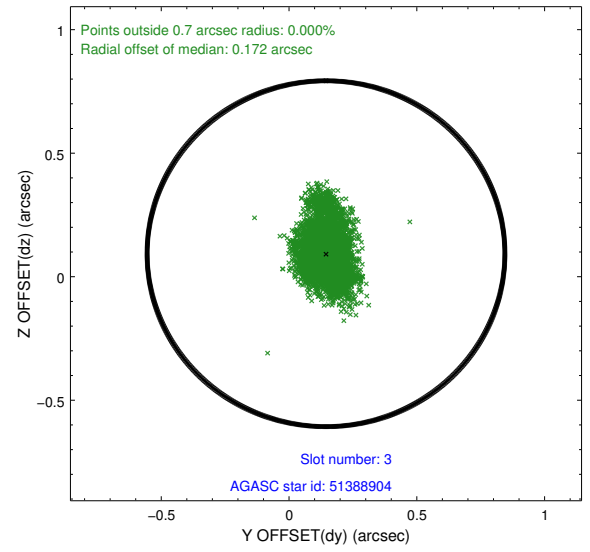
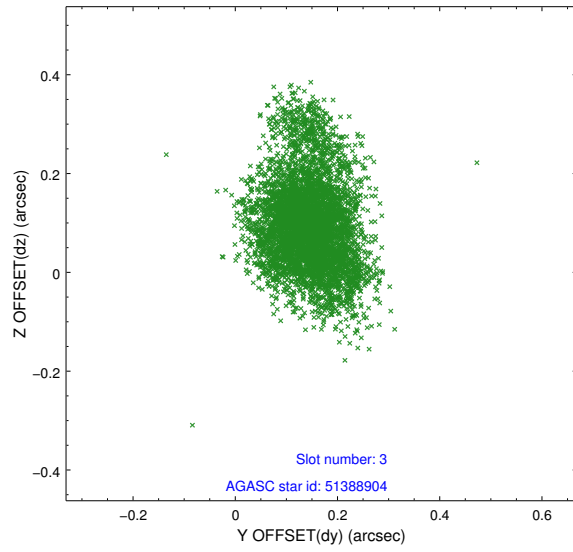


Slot Statistics

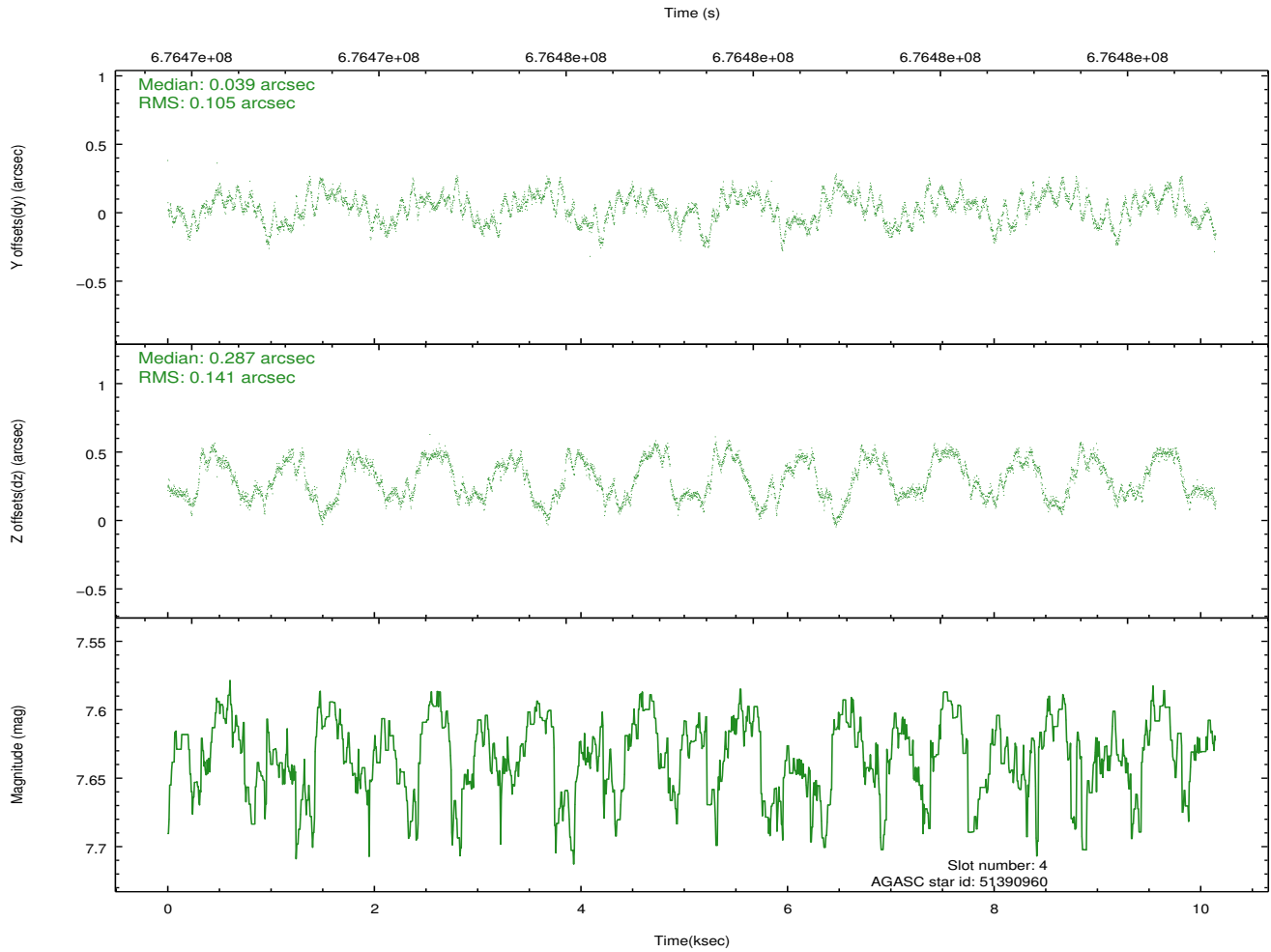
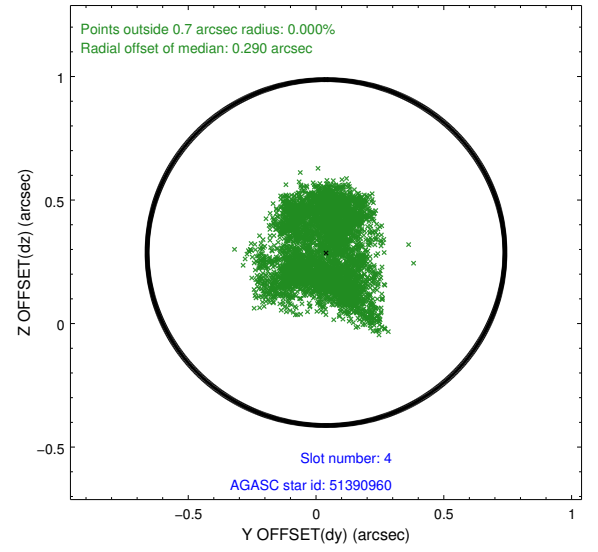
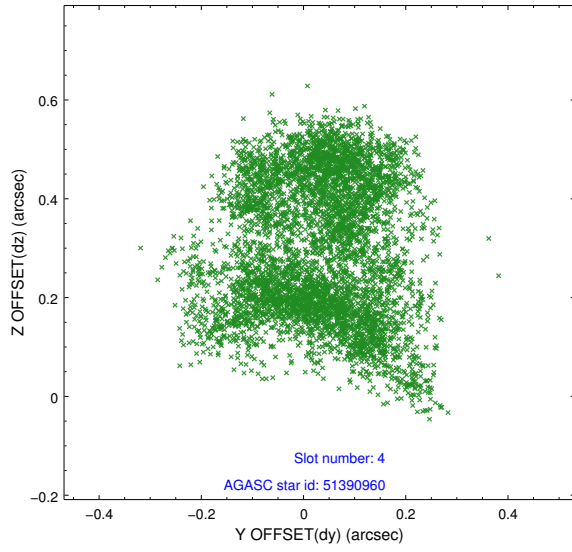
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	2475	1.000	-0.242	-0.153	0.012	0.019	0.000000	0.000000	-763.86	-1739
1	FID		ACIS-S-4	7.12	2475	1.000	0.618	0.158	0.010	0.020	0.000000	0.000000	2150.02	168
2	FID		ACIS-S-5	7.10	2475	1.000	-0.402	0.004	0.017	0.033	0.000000	0.000000	-1816.22	162
3	GUIDE	used	51388904	8.22	4950	1.000	0.145	0.093	0.102	0.195	252.767239	4.783010	-45.59	-330
4	GUIDE	used	51390960	7.63	4951	1.000	0.039	0.287	0.195	0.271	253.089716	4.810839	-1203.95	-257
5	GUIDE	used	51392472	8.86	4945	1.000	0.034	0.095	0.127	0.208	252.430118	5.138635	957.06	-1779
6	GUIDE	used	51398184	8.72	4949	1.000	0.033	-0.149	0.104	0.169	253.124220	4.305045	-1053.22	1561
7	GUIDE	used	51398584	8.20	4946	1.000	-0.247	-0.336	0.138	0.196	252.688107	4.451511	414.52	805

2.4 Star Slots

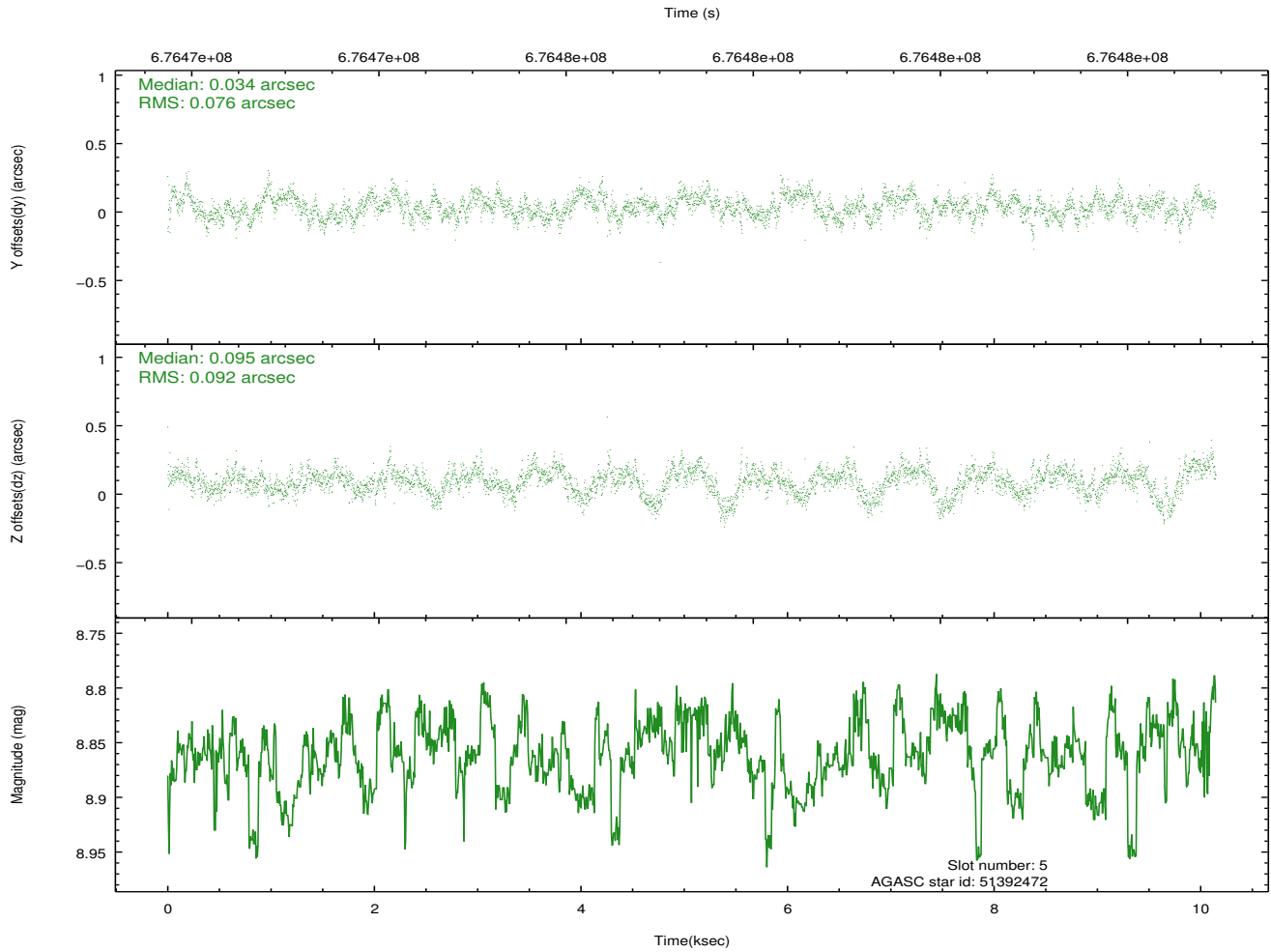
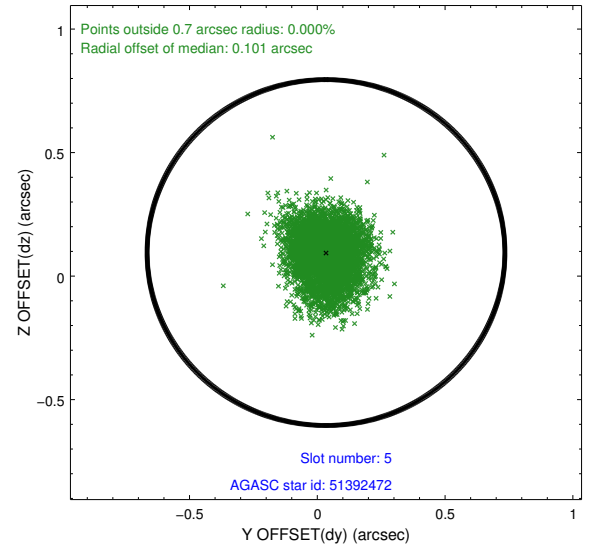
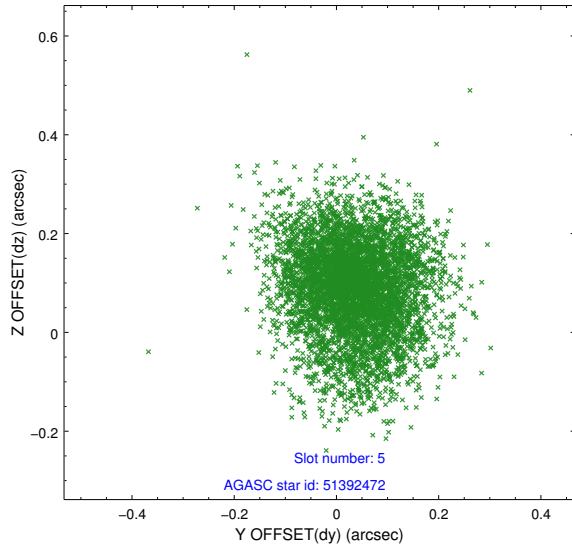
2.4.1 Slot 3



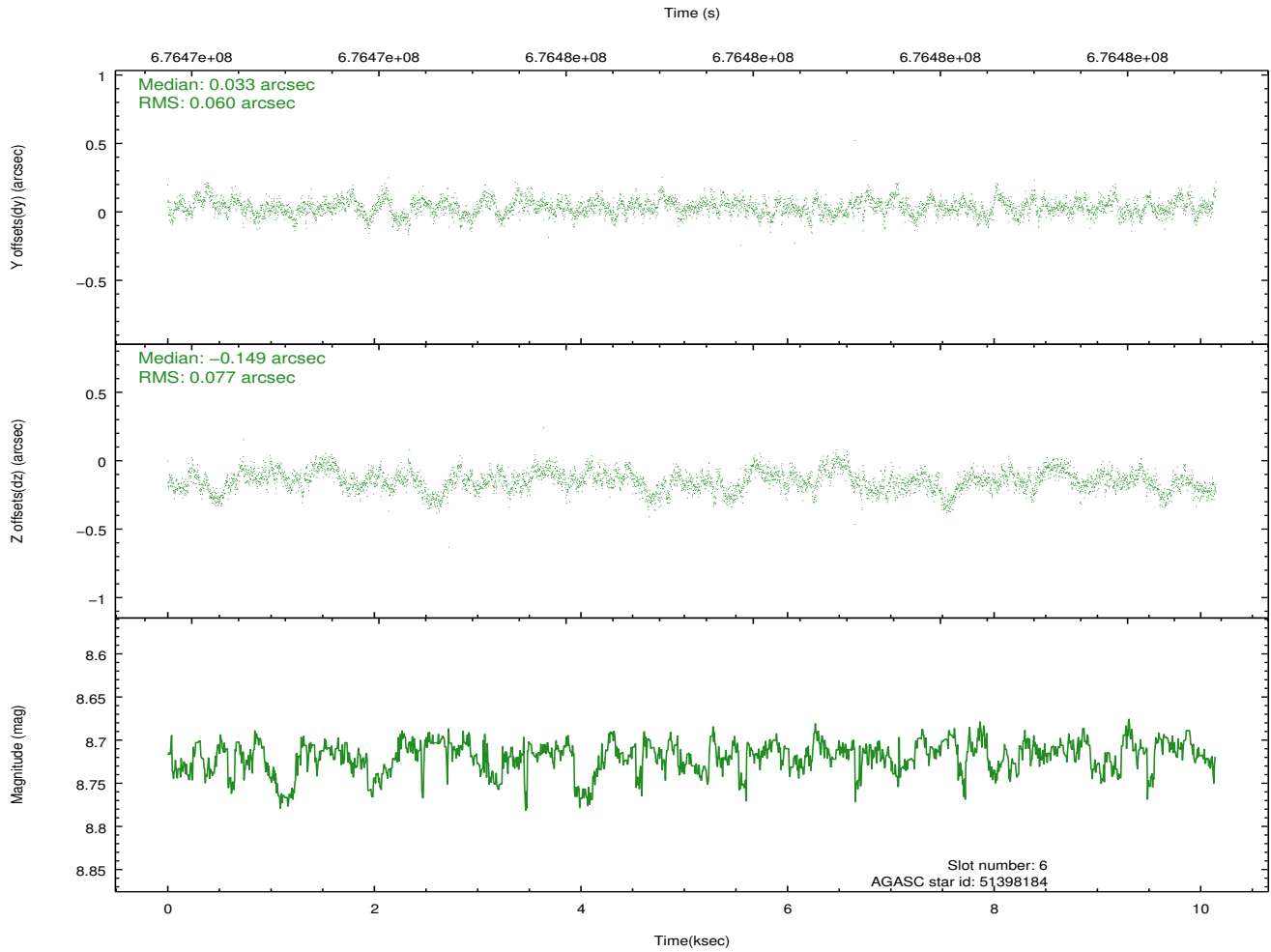
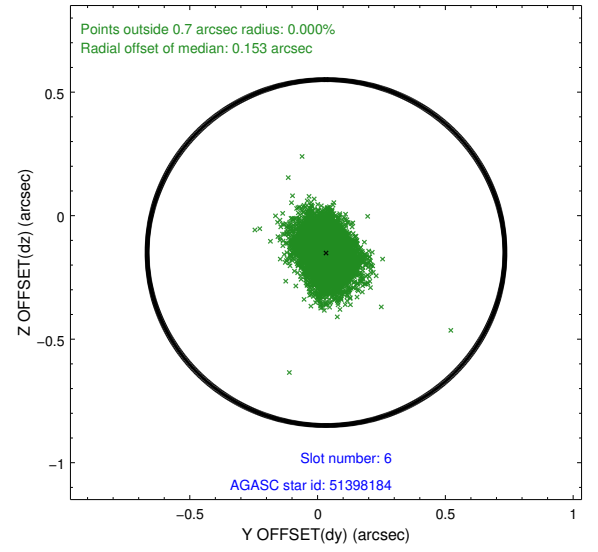
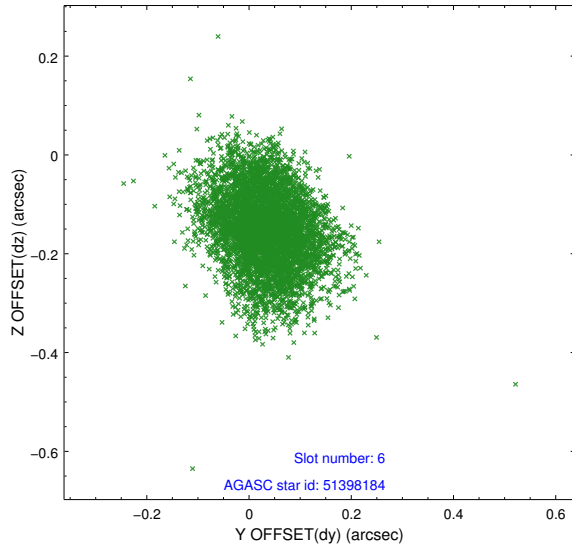
2.4.2 Slot 4



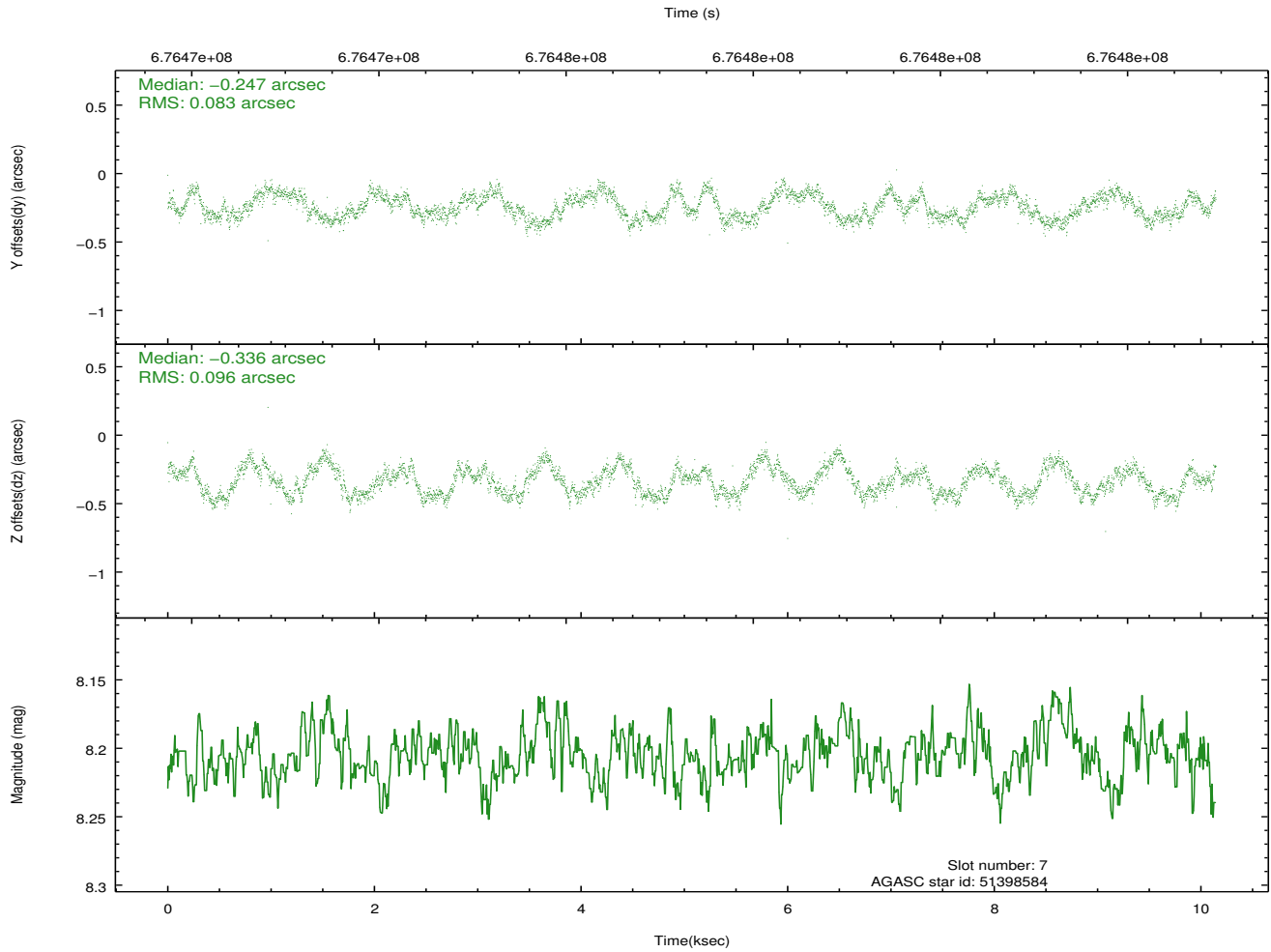
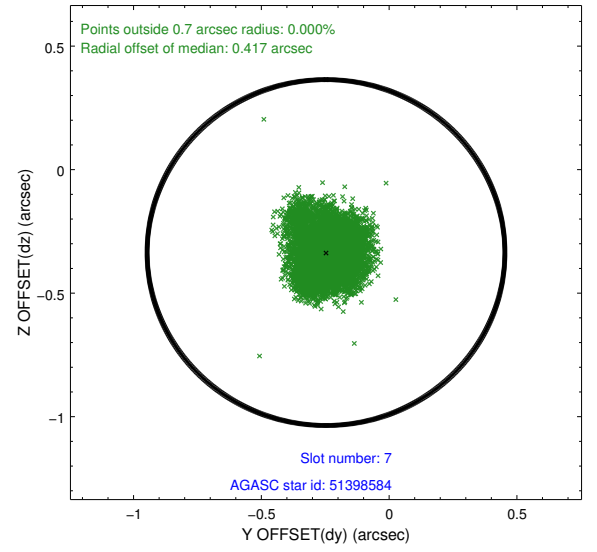
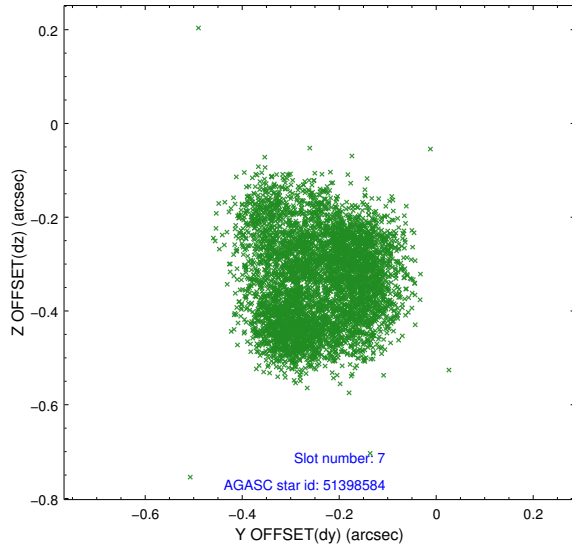
2.4.3 Slot 5



2.4.4 Slot 6

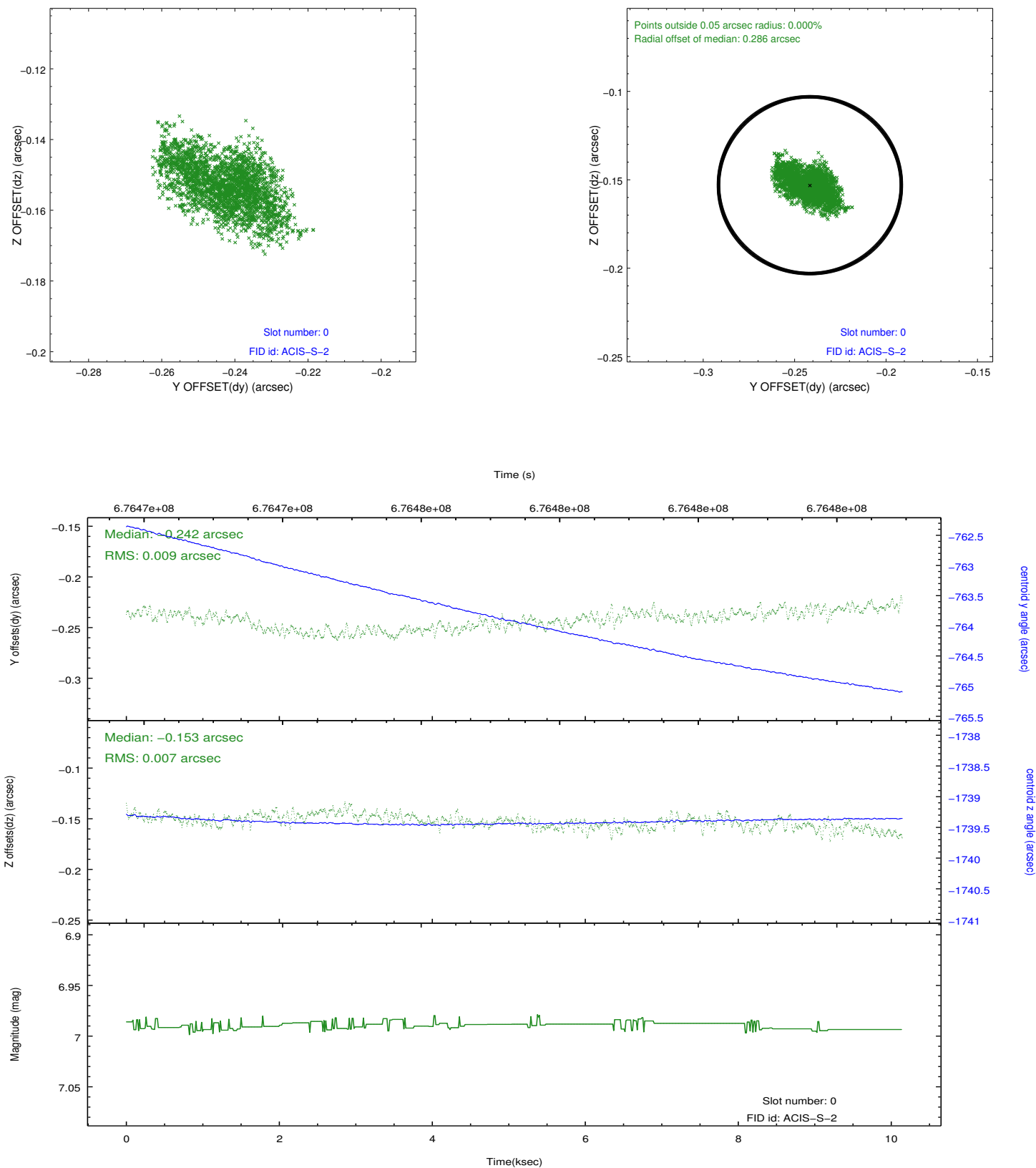


2.4.5 Slot 7

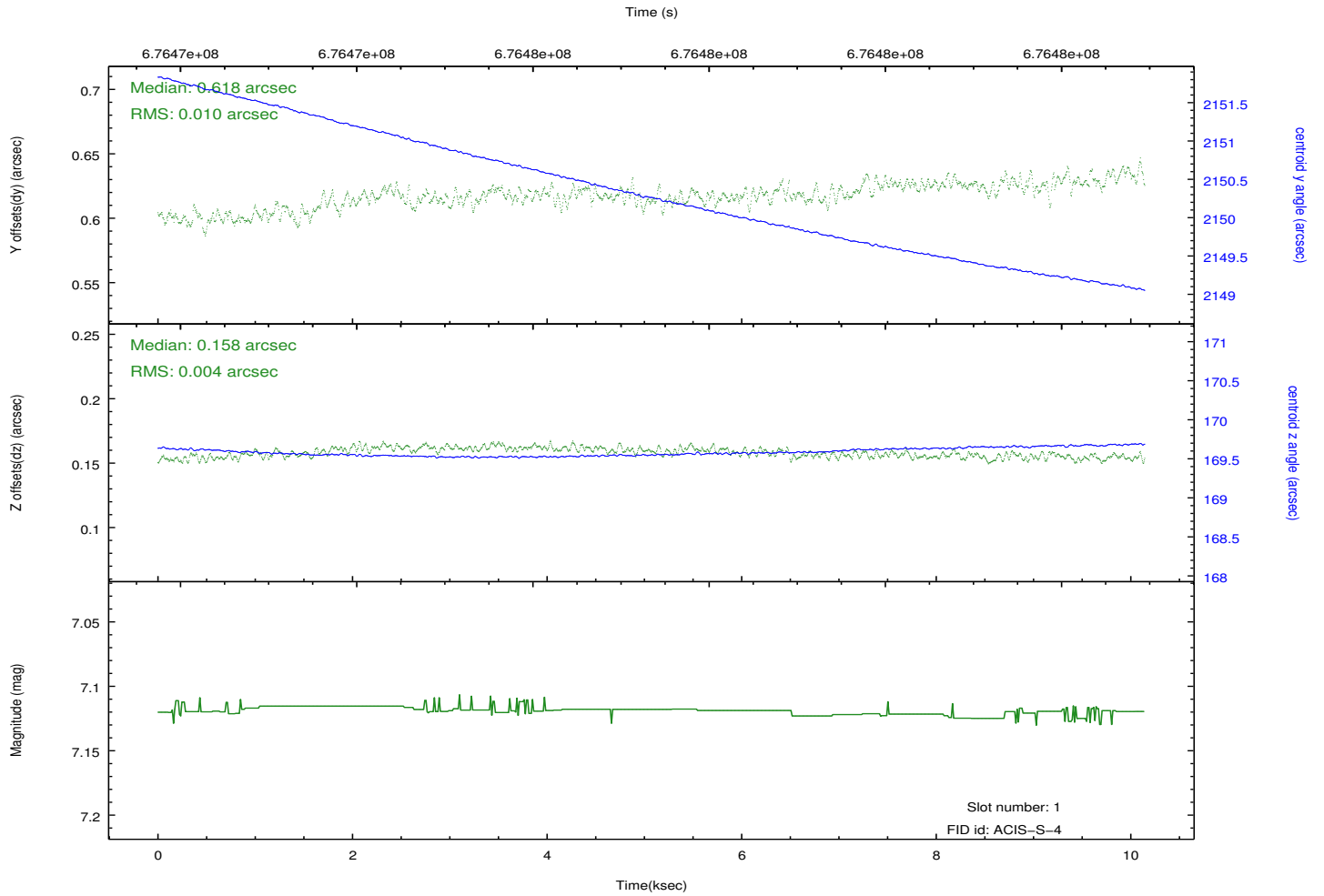
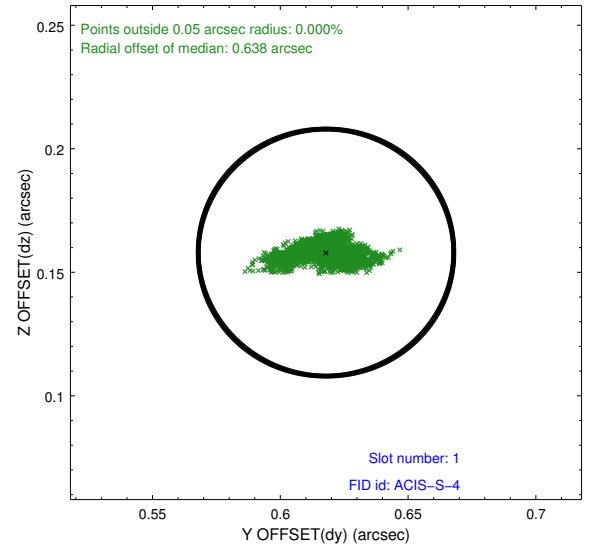
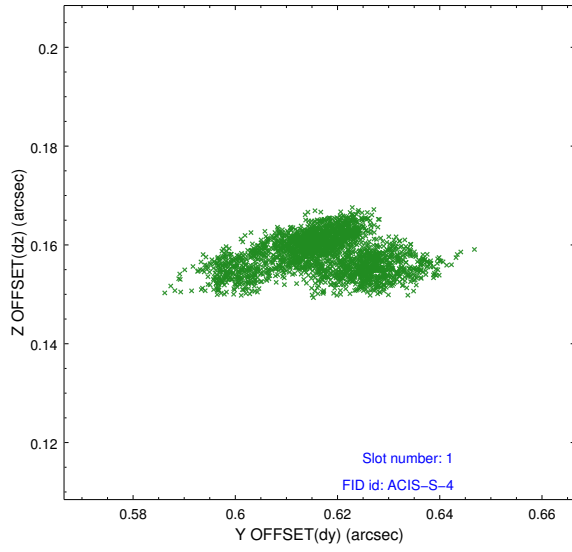


2.5 FID Slots

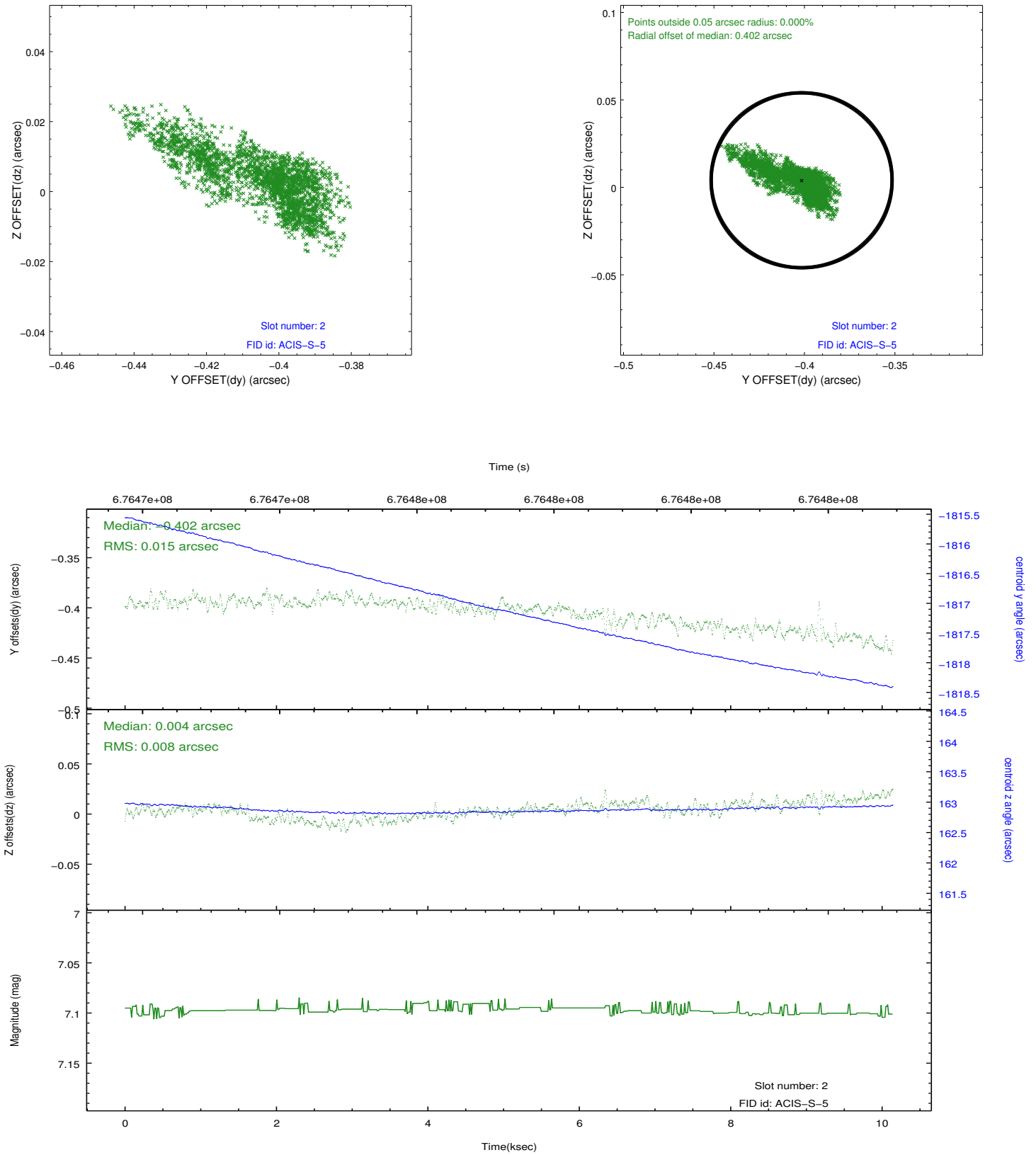
2.5.1 Slot 0



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)	2019.06.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.092

A.2 Comments