

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19849 - L2 Version 1
Chandra X-Ray Center

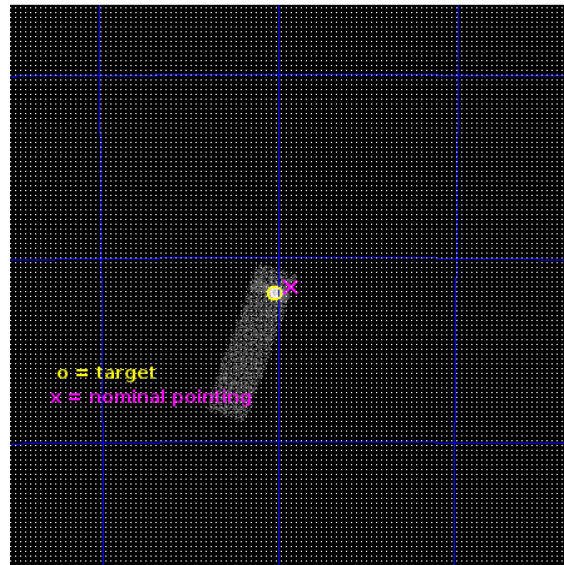
L2 Processing Date : Mar 19 2017

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1 Front

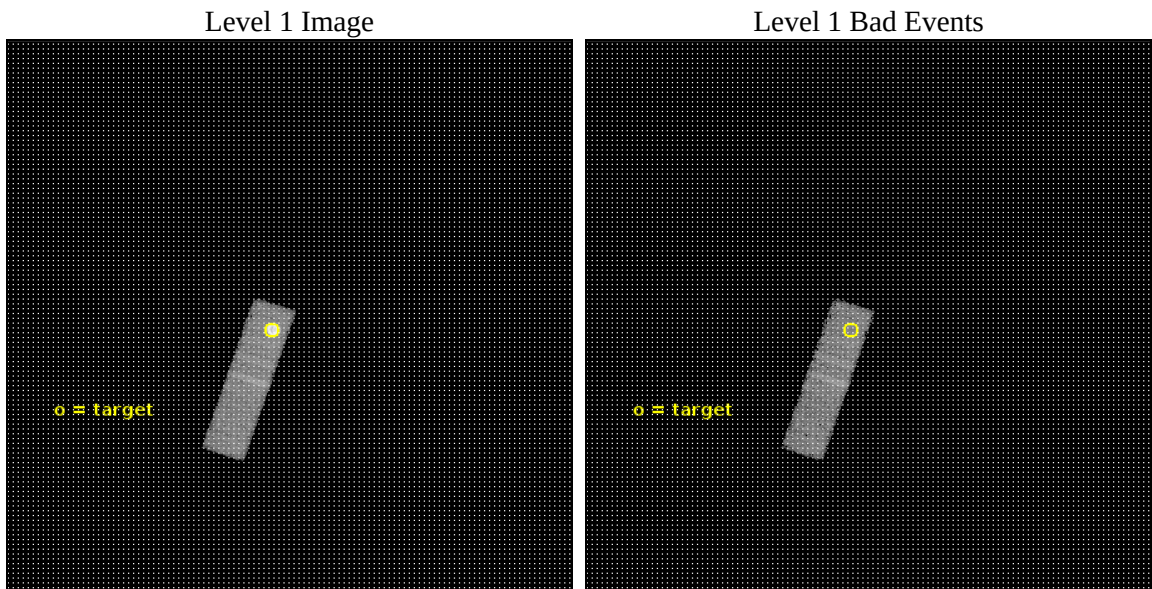
seq_num	590552	Sequence number
obs_id	19849	Observation id
title	AO-18 Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.962708190435	Nominal RA [deg]
dec_nom	-72.026408526332	Nominal Dec [deg]
roll_nom	198.80733538479	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25059.664139748	Sum of GTIs [s]
livetime	23836.834528439	Livetime [s]
ontime3	25059.664139748	Sum of GTIs [s]
l2events	43048	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	25059.664139748	Sum of GTIs [s]
caldsver	4.7.3	 	ontime3	25059.664139748	Sum of GTIs [s]
date	2017-03-19T17:49:39	Date and time of file creation	l1events	92236	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

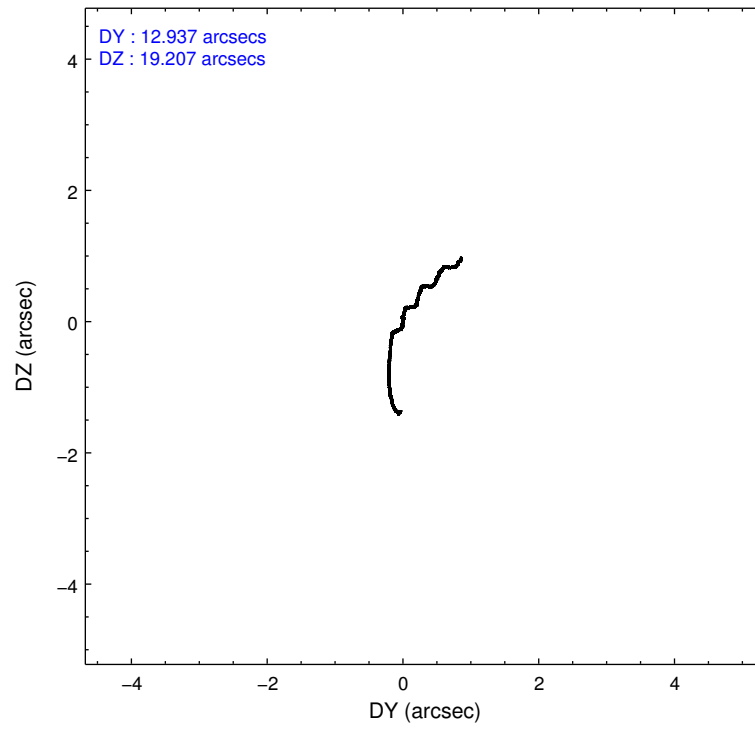
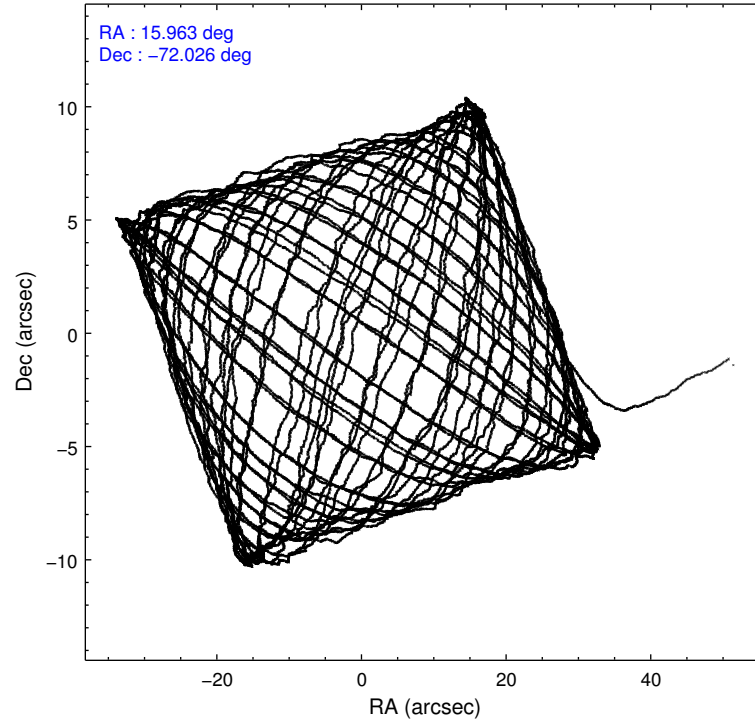
	ccd 3
level 1 events	92236
rejected events	48351
rejected %	52%

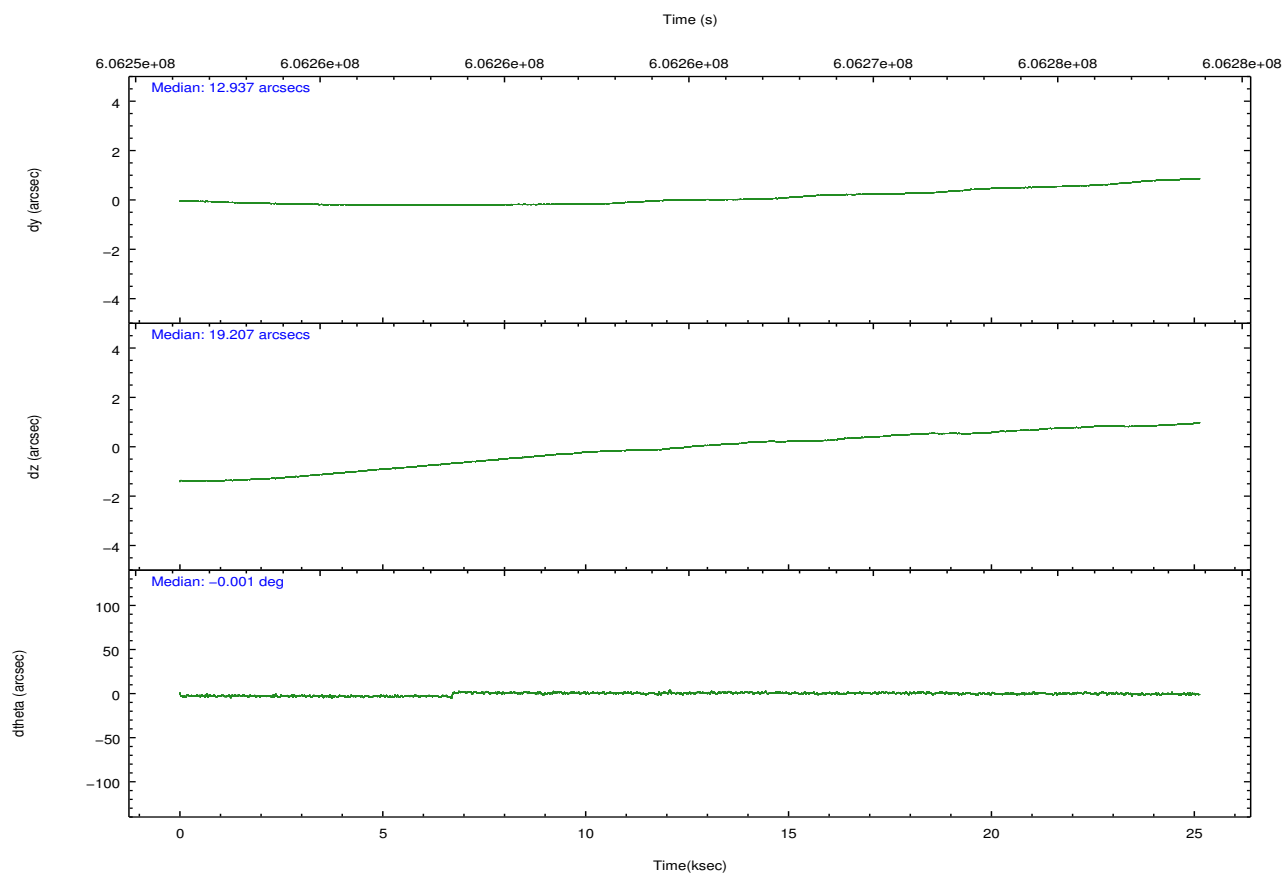
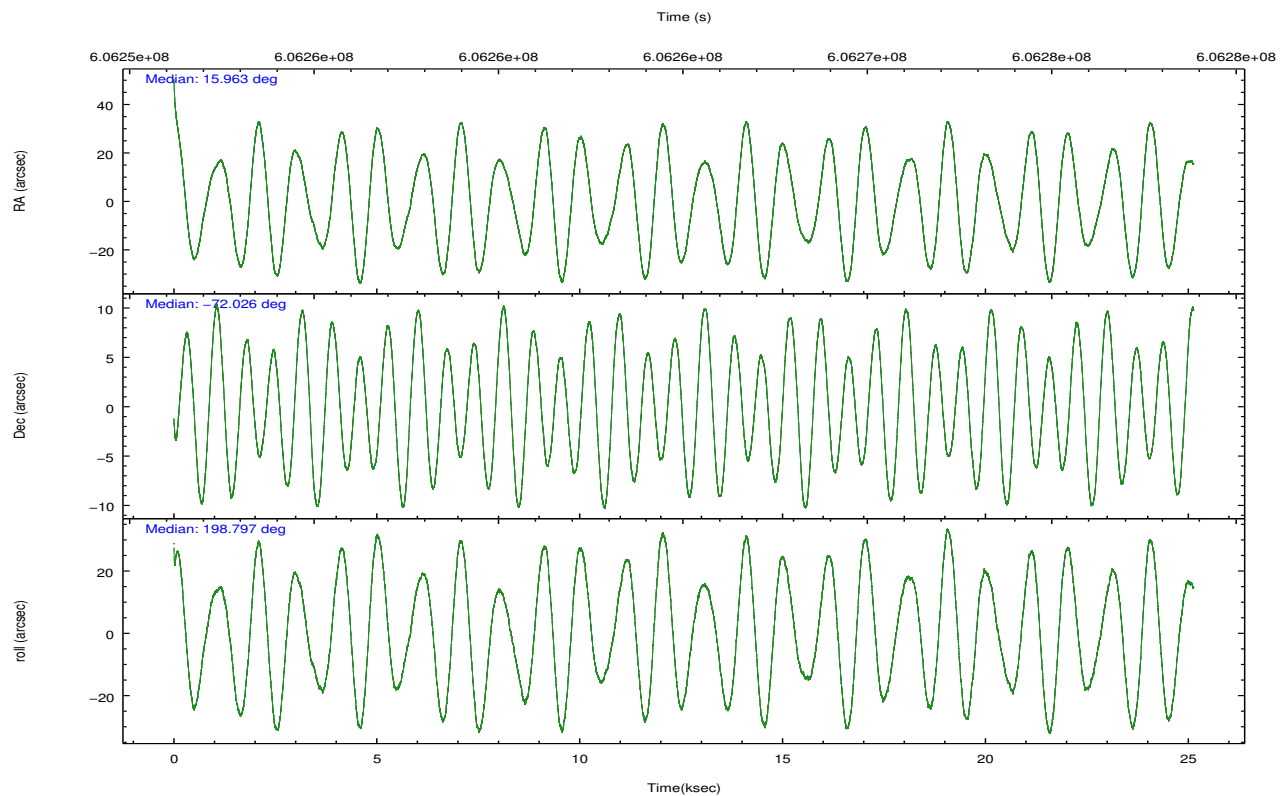
	ccd 3
grade 0 events	36221
	39%
grade 1 events	74
	0%
grade 2 events	3611
	3%
grade 3 events	1479
	1%
grade 4 events	1476
	1%
grade 5 events	1981
	2%
grade 6 events	1101
	1%
grade 7 events	46293
	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	16.021263	15.96270819043517	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.005581	-72.02640852633213	Subarray start row	768	768
[deg] Pointing Roll	198.654360	198.8073353847875	Subarray row count	256	256
[s] Window start time (MET)	602294469.184000	602294469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	607305669.184000	607305669.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	606252569.184000	606251453.51034			
Observation start date	2017-03-18T19:28:20	2017-03-18T19:10:53			
[s] Observation end time (MET)	606277569.184000	606277721.18687			
Observation end date	2017-03-19T02:25:00	2017-03-19T02:28:41			
Read mode	TIMED	TIMED			

2.3 Aspect



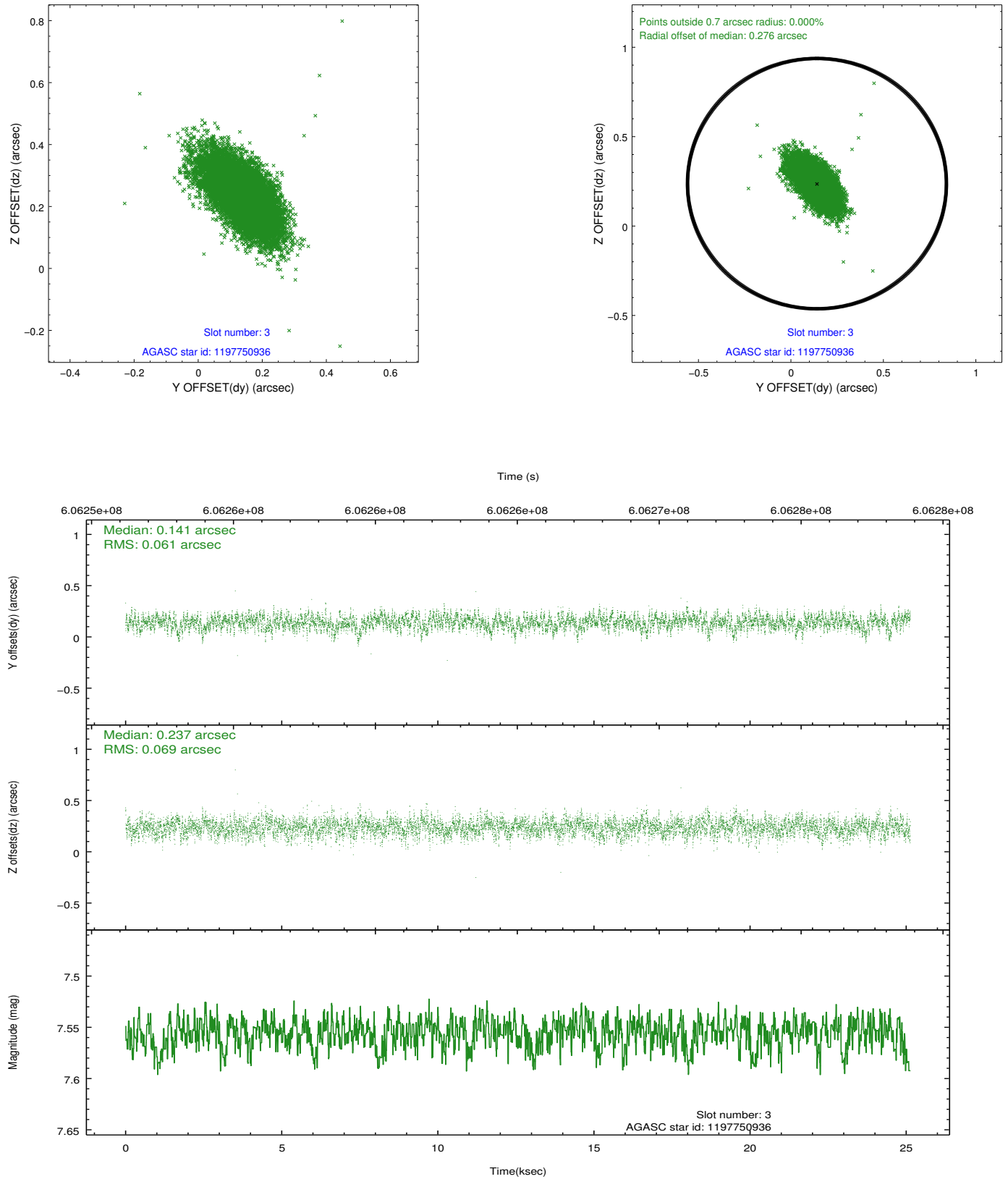


Slot Statistics

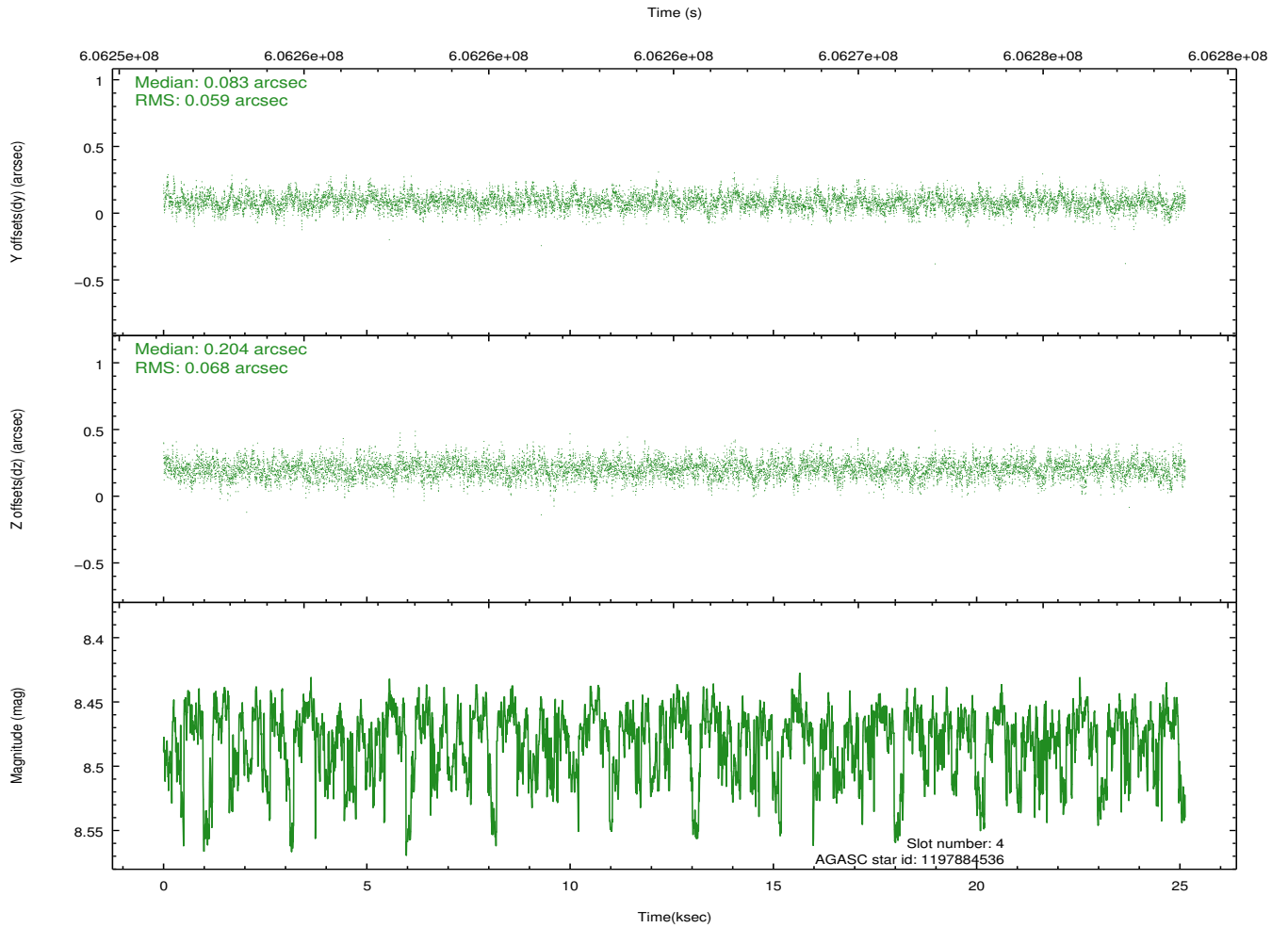
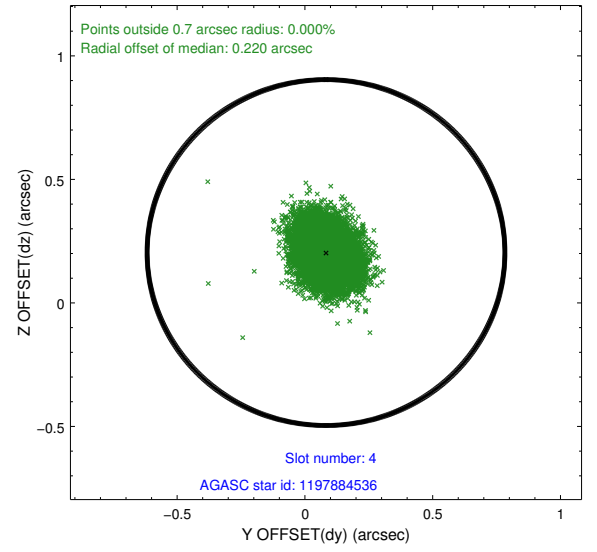
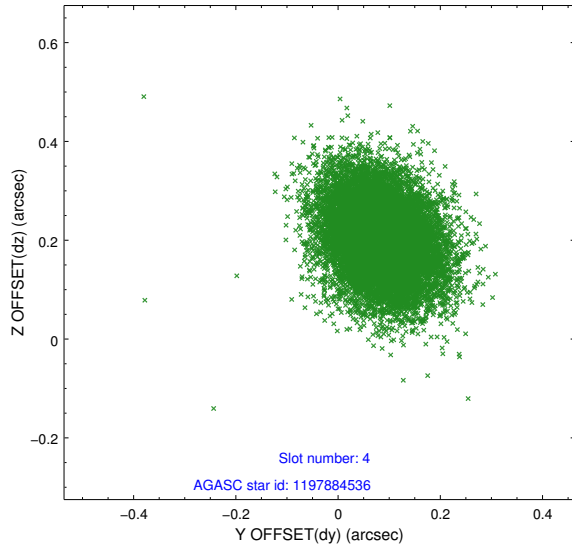
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.22	6130	-0.136	-0.055	0.030	0.051	0.000000	0.000000	926.31	-842.87
1	FID		ACIS-I-4	7.18	6130	0.203	0.111	0.022	0.054	0.000000	0.000000	2146.78	1057.04
2	FID		ACIS-I-6	7.22	6128	-0.159	-0.002	0.020	0.031	0.000000	0.000000	392.38	1699.26
3	GUIDE	used	1197750936	7.56	12258	0.141	0.237	0.093	0.166	15.387940	-71.549550	160.94	-1781.54
4	GUIDE	used	1197884536	8.48	12252	0.083	0.204	0.095	0.157	17.160729	-71.835289	-1402.99	-160.46
5	GUIDE	used	1197884712	8.28	12257	-0.165	-0.118	0.095	0.157	16.087398	-72.252690	215.98	866.26
6	GUIDE	used	1197885328	7.23	12258	0.274	0.249	0.109	0.184	16.283090	-71.733943	-593.33	-831.30
7	GUIDE	used	1198189696	7.32	12259	-0.331	-0.568	0.101	0.171	15.223750	-72.697522	1607.33	2092.48

2.4 Star Slots

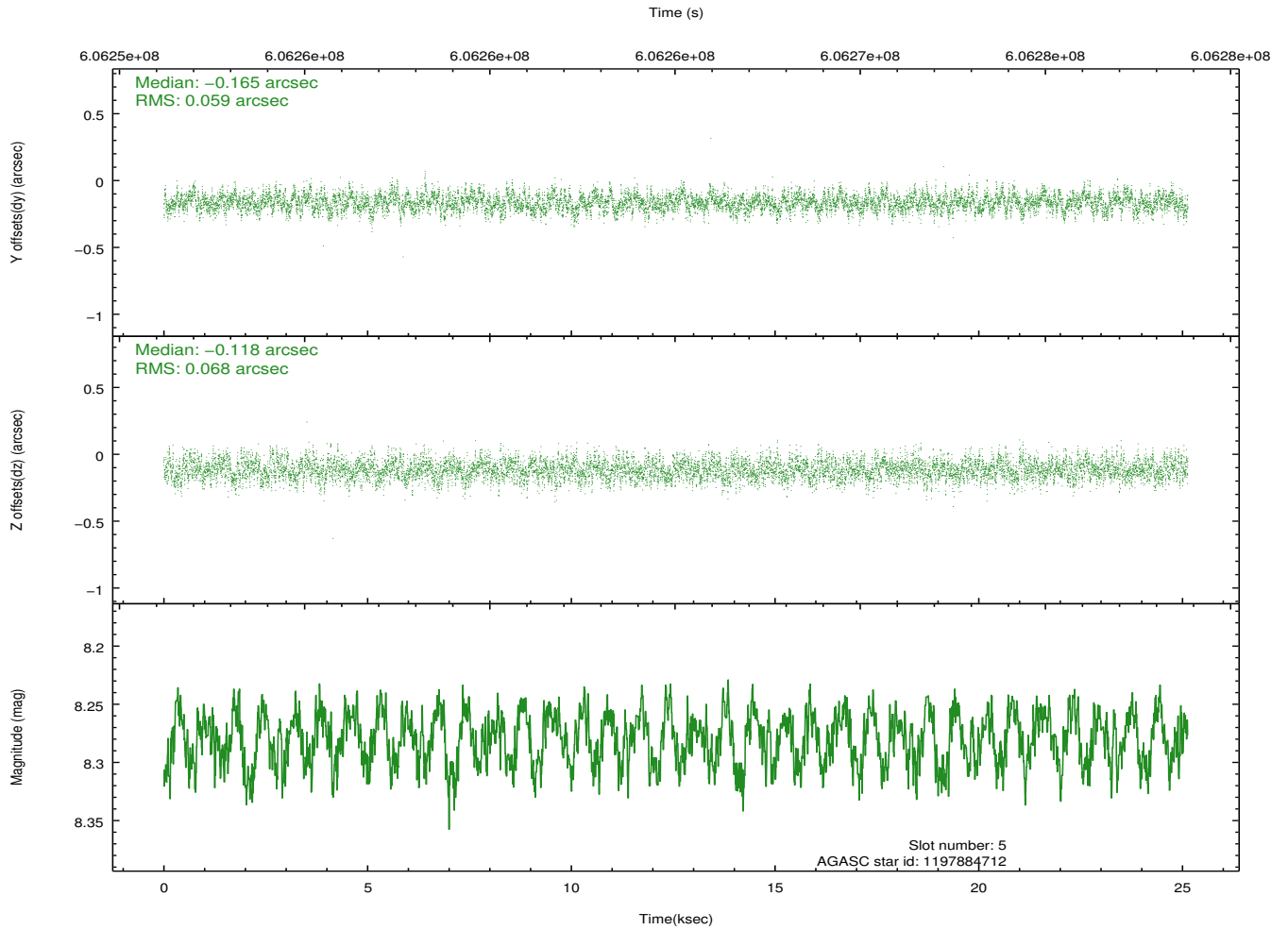
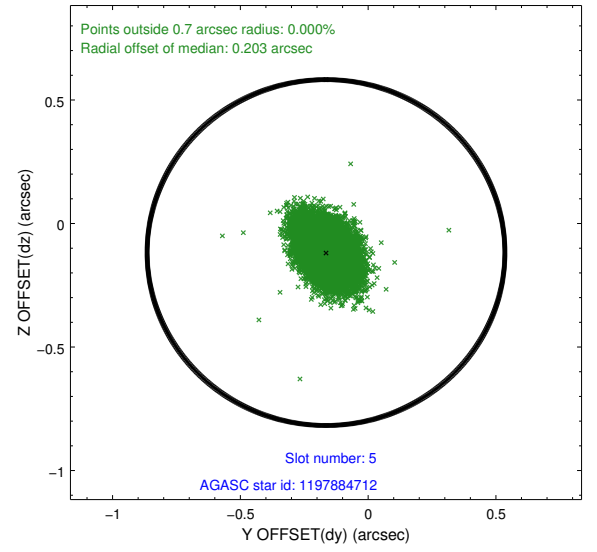
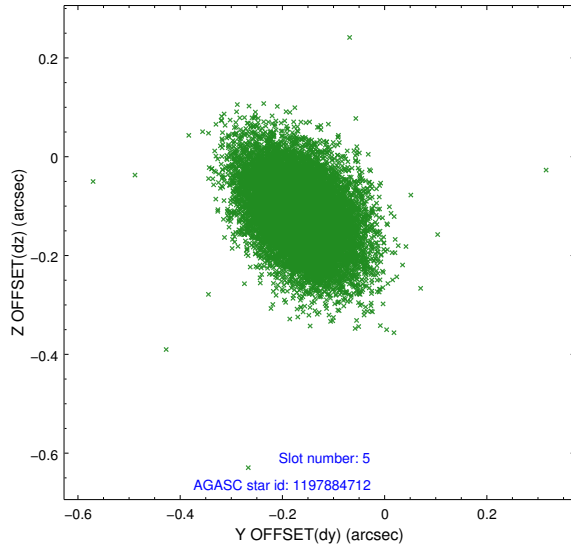
2.4.1 Slot 3



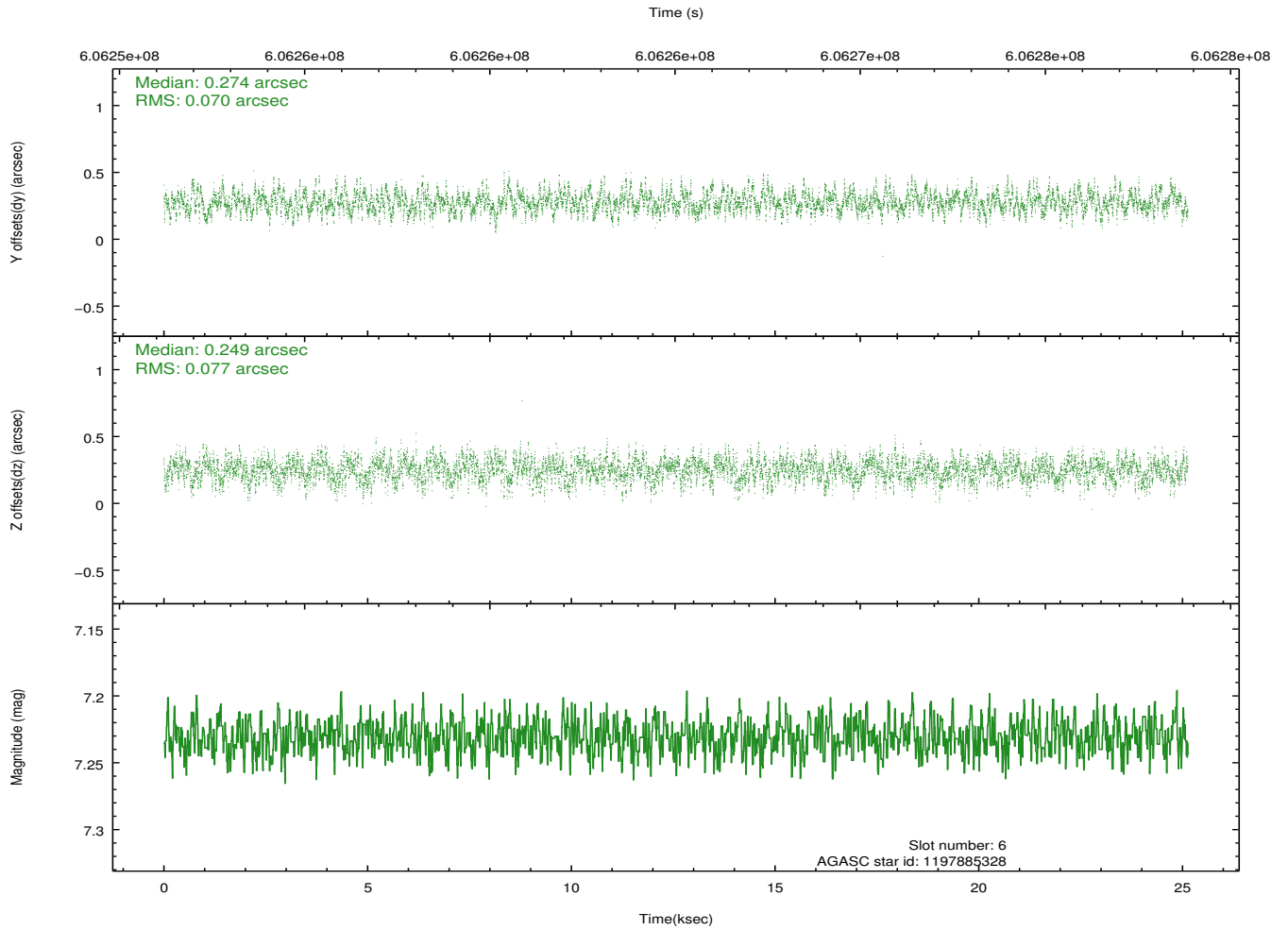
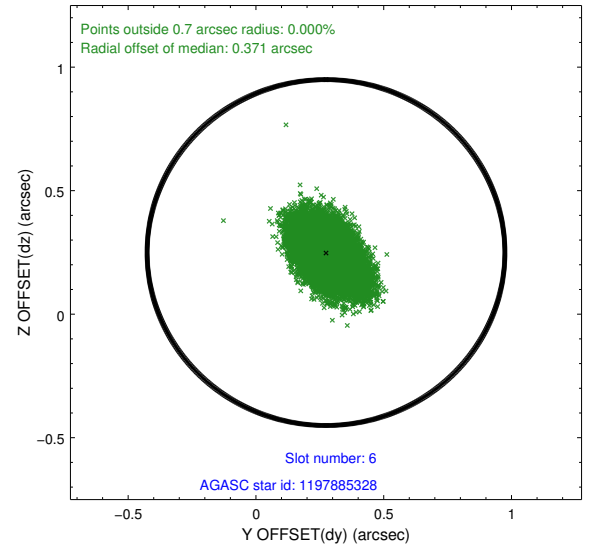
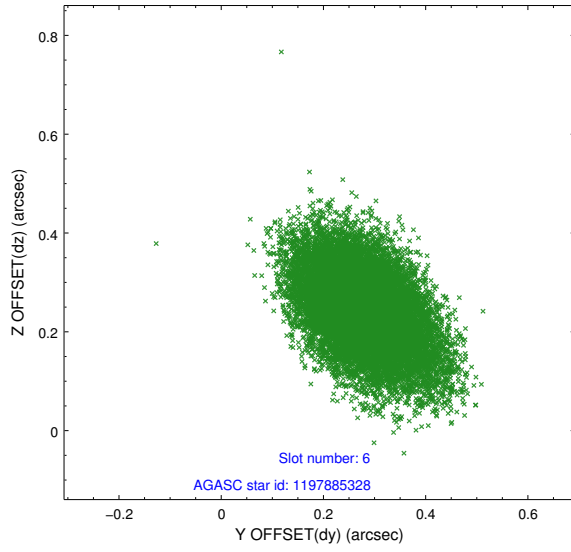
2.4.2 Slot 4



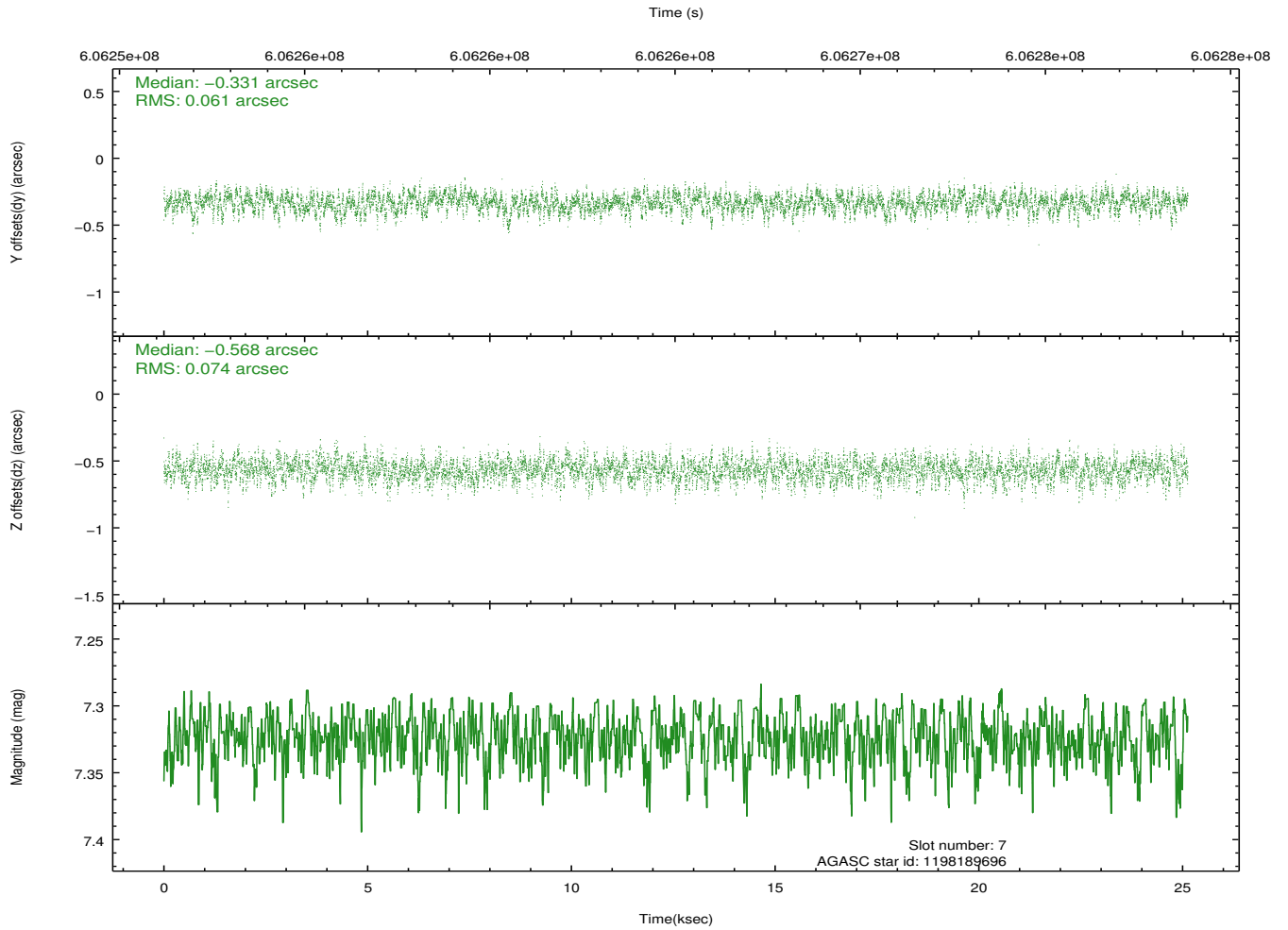
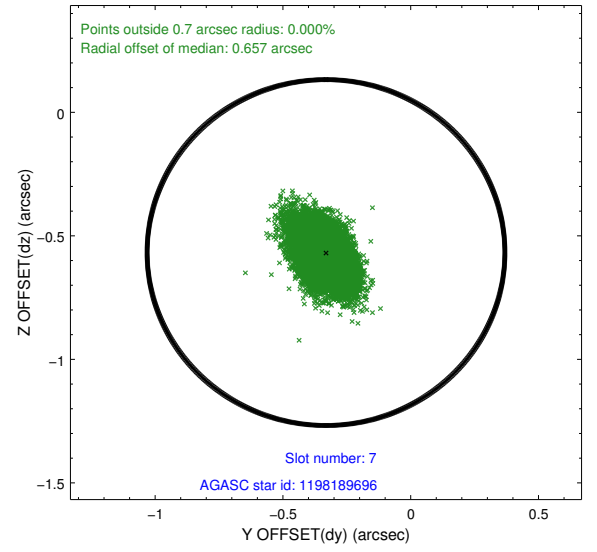
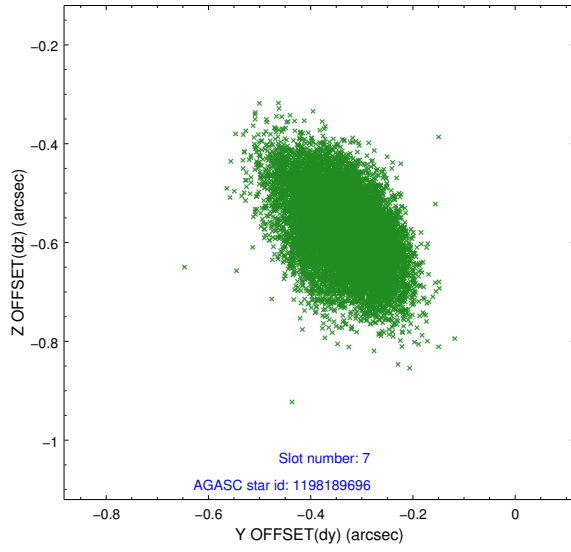
2.4.3 Slot 5



2.4.4 Slot 6

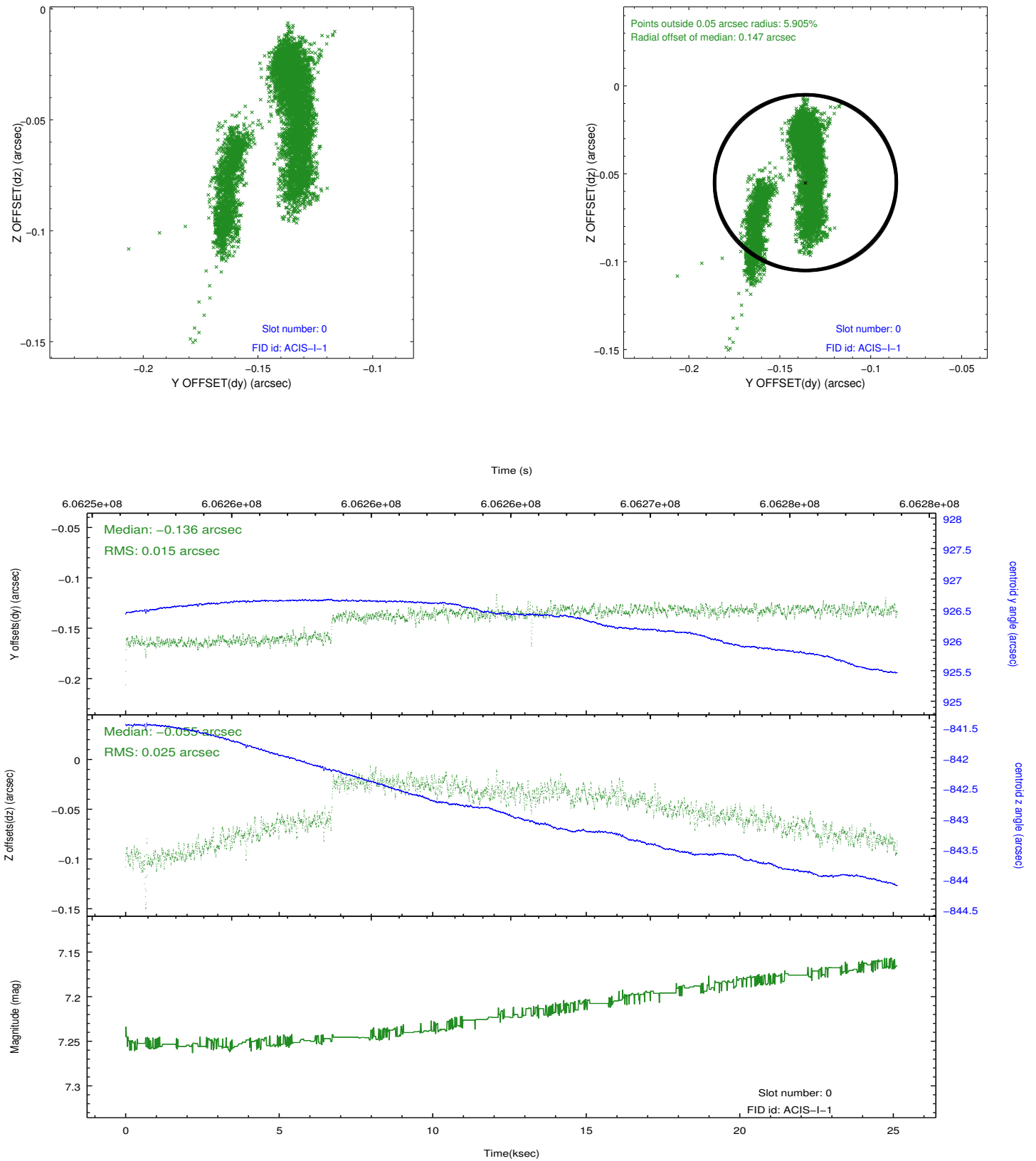


2.4.5 Slot 7

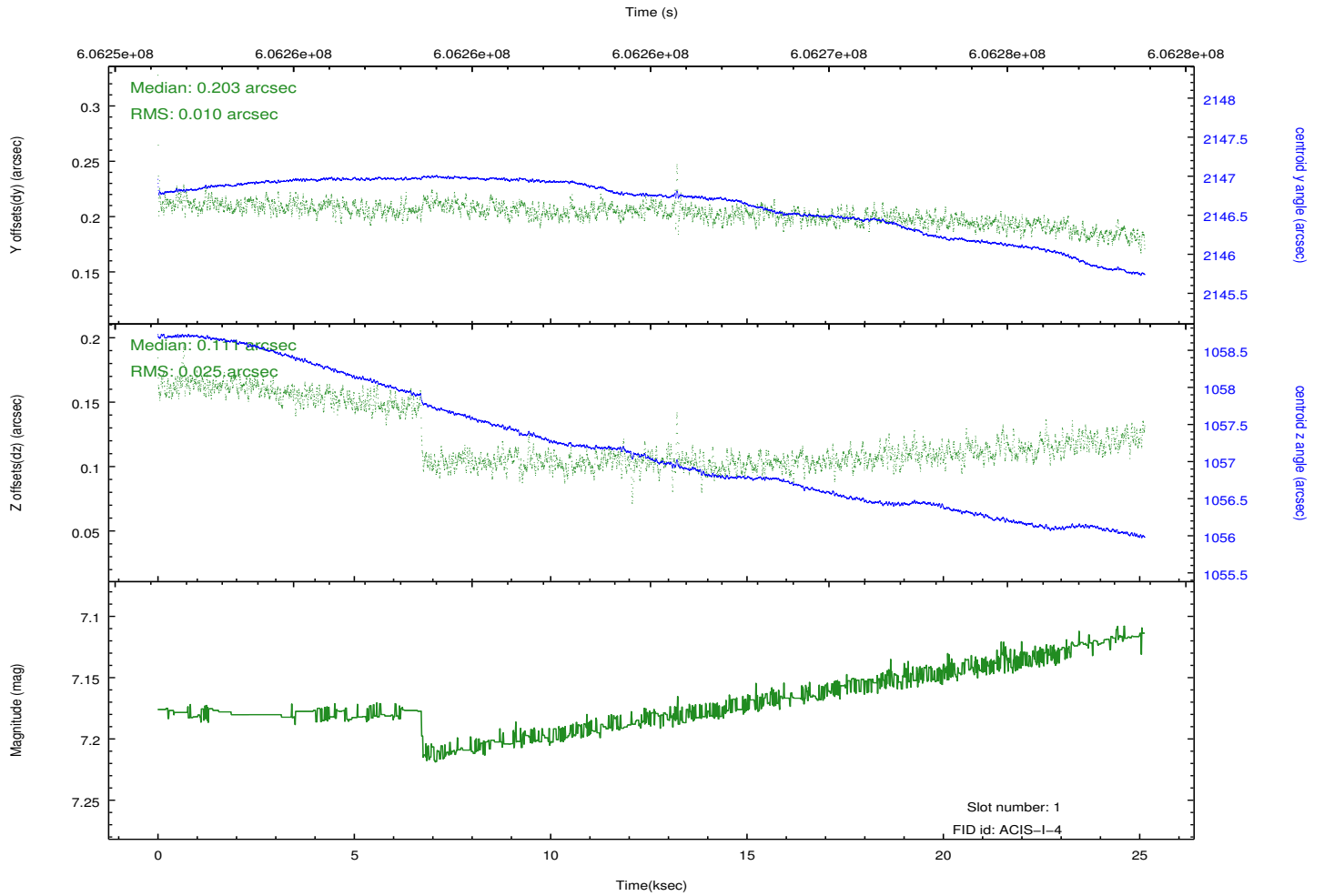
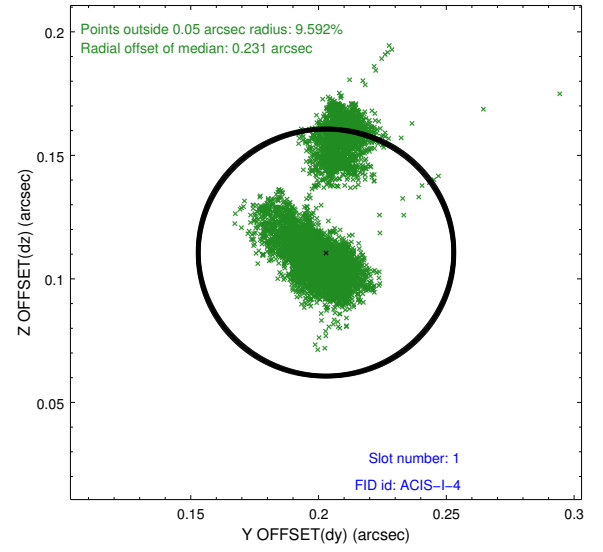
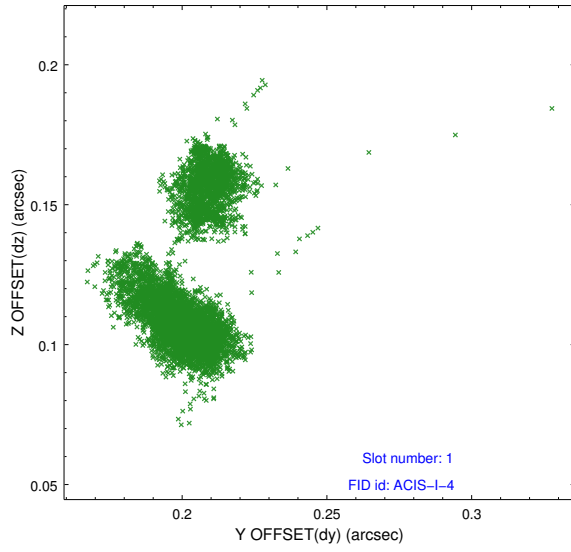


2.5 FID Slots

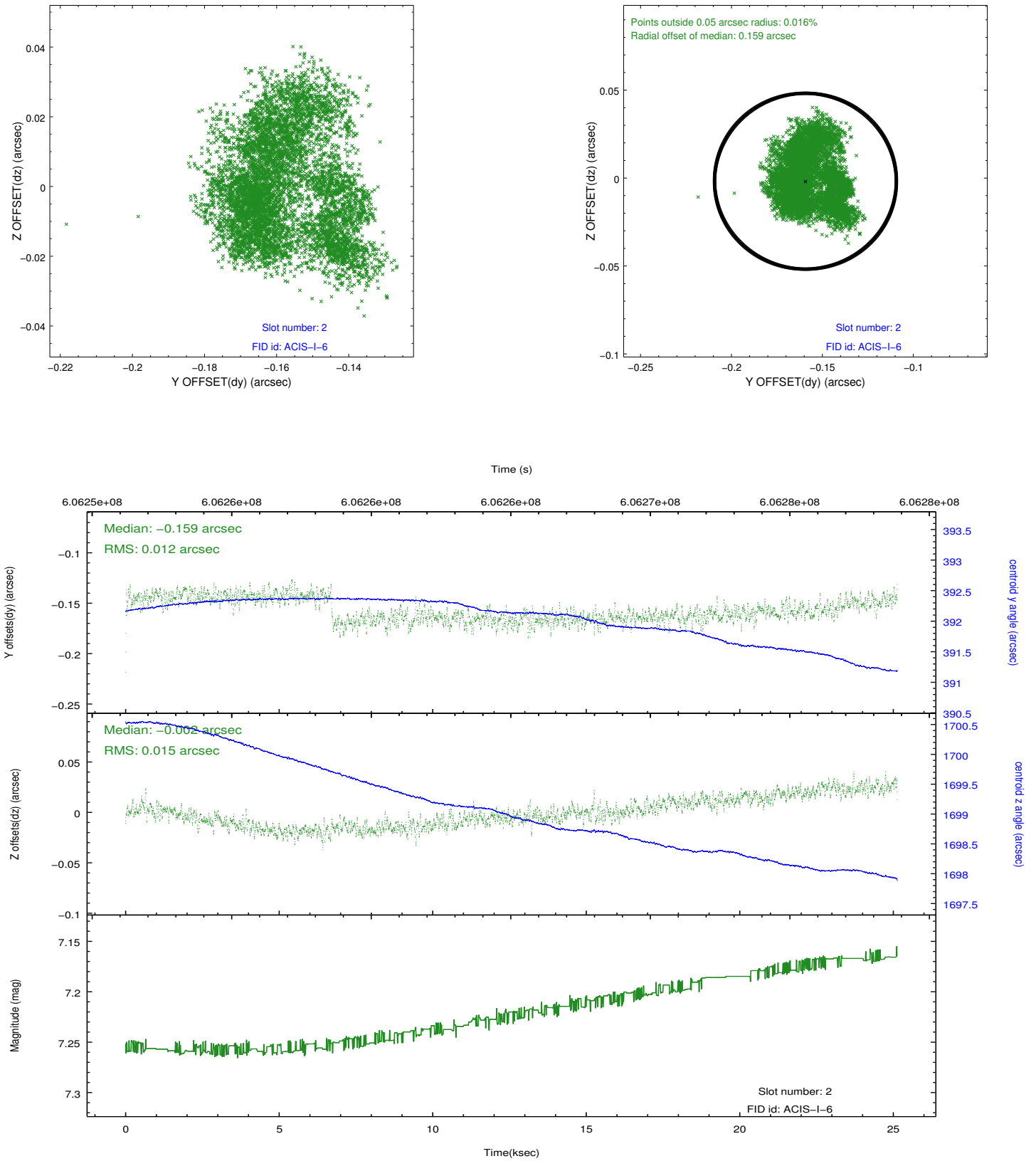
2.5.1 Slot 0



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)	2017.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.059664139748

A.2 Comments