

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18336 - L2 Version 1
Chandra X-Ray Center

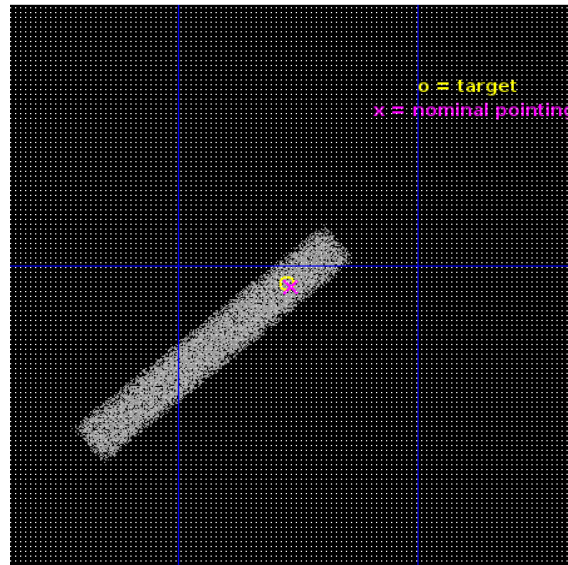
L2 Processing Date : Jul 27 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

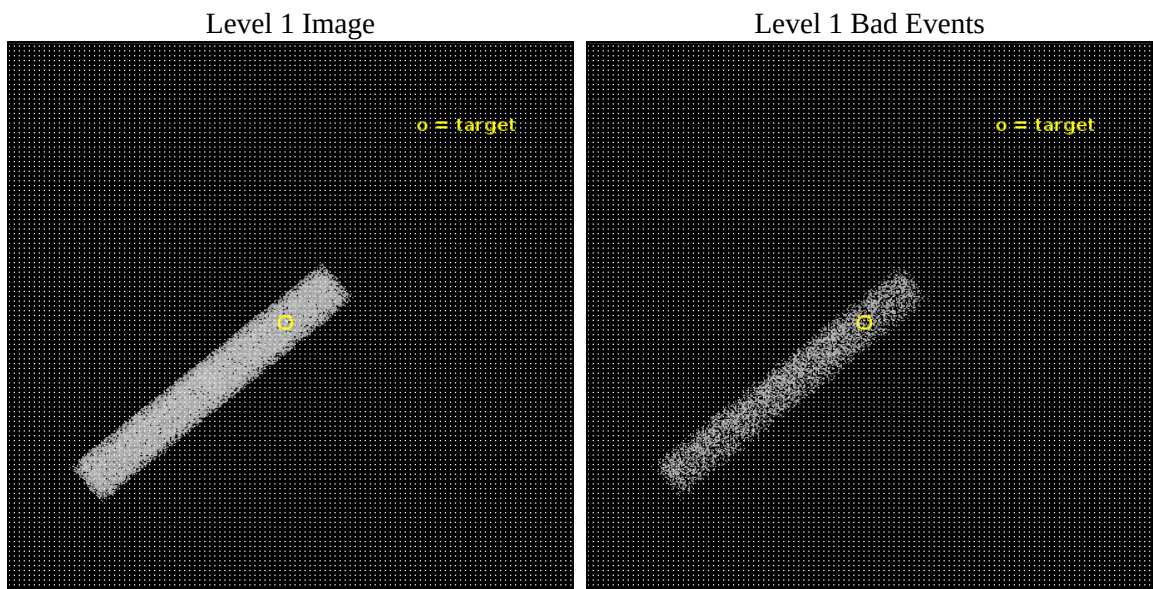
seq_num	401805	Sequence number
obs_id	18336	Observation id
title	Crust cooling of accretion-heated neutron stars	Proposal title
observer	Rudy Wijnands	Principal investigator
object	MAXI J0556-332	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	89.193	Observer's specified target RA [deg]
dec_targ	-33.1745	Observer's specified target Dec [deg]
ra_nom	89.190753640432	Nominal RA [deg]
dec_nom	-33.176191868499	Nominal Dec [deg]
roll_nom	139.89126734942	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29791.998224139	Sum of GTIs [s]
livetime	27019.76983869	Livetime [s]
ontime7	29791.998224139	Sum of GTIs [s]
l2events	16061	Number of level 2 events



2 OBI

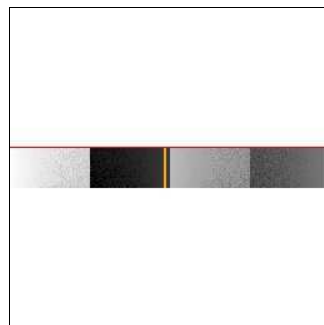
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29722.366000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	29791.998224139	Sum of GTIs [s]
caldsver	4.7.2	 	ontime7	29791.998224139	Sum of GTIs [s]
date	2016-07-28T00:10:38	Date and time of file creation	l1events	33291	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

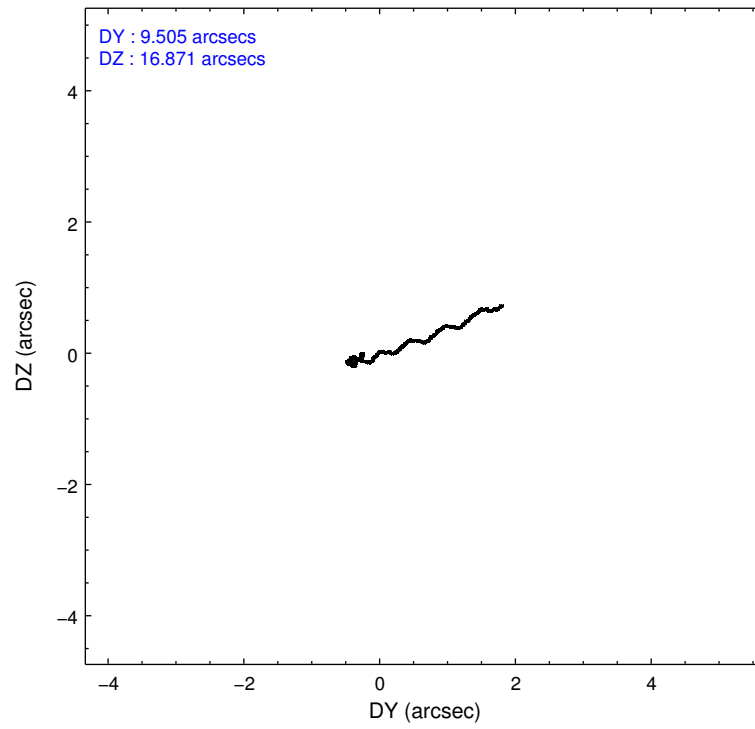
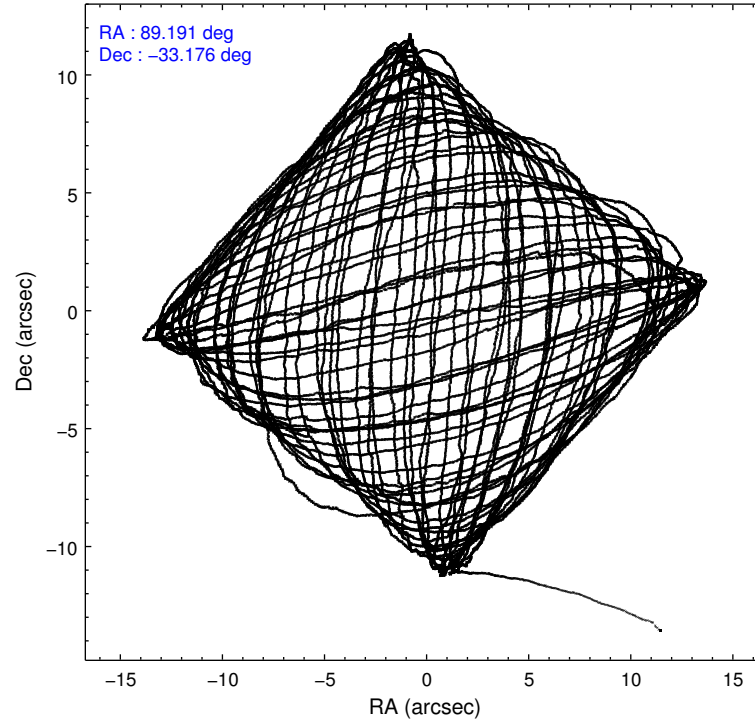
	ccd 7
level 1 events	33291
rejected events	16543
rejected %	49%

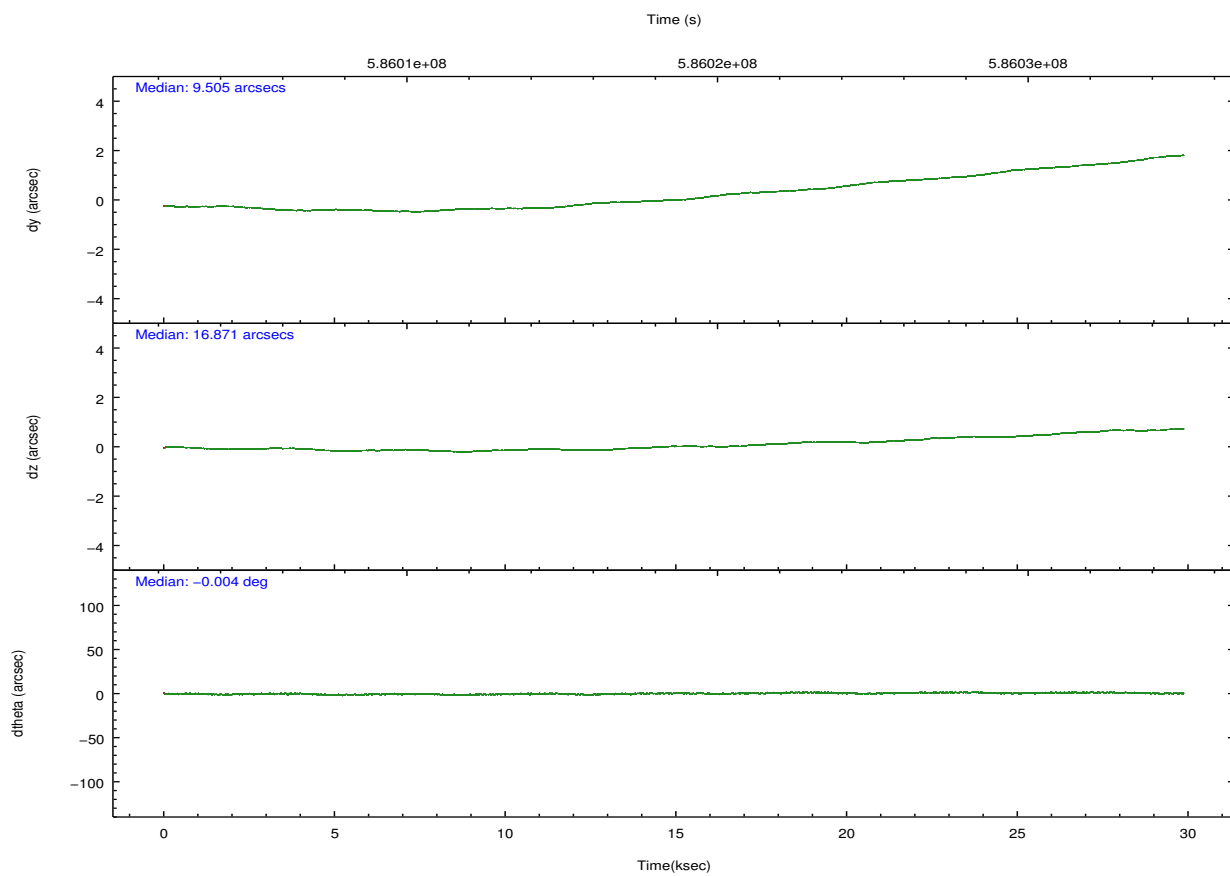
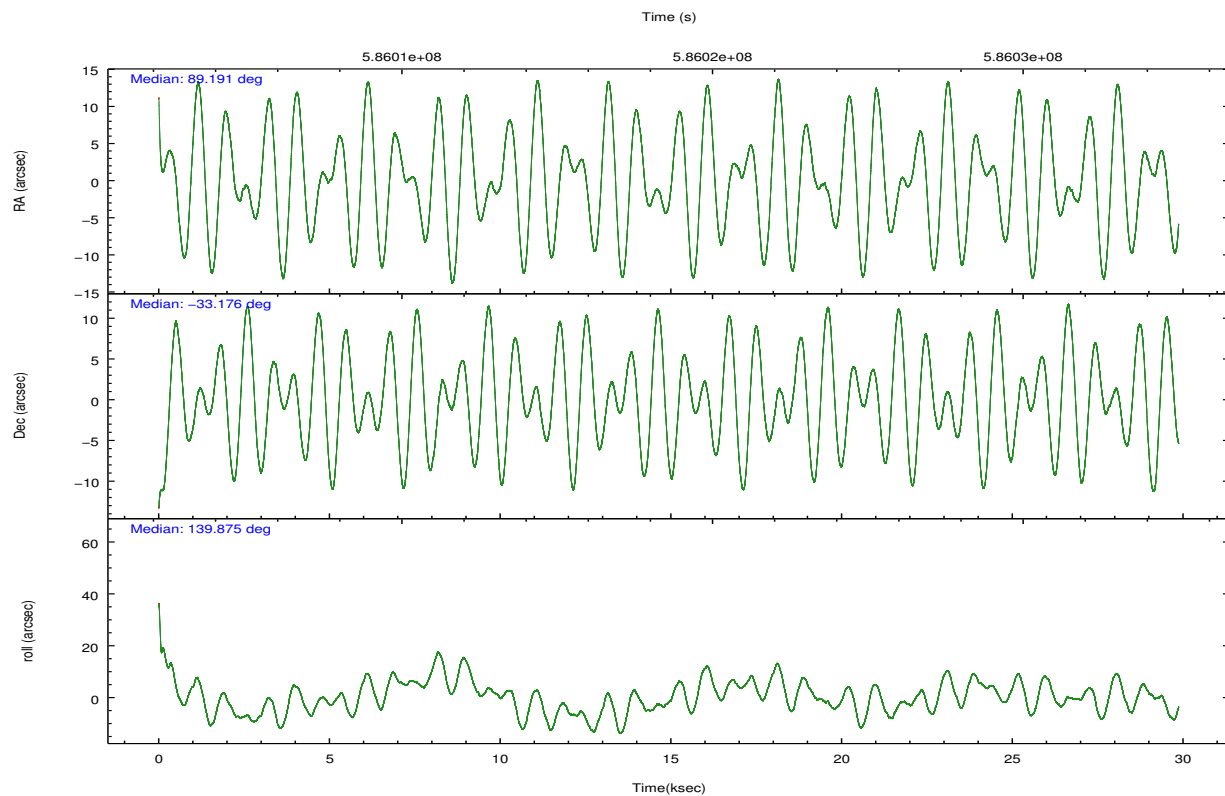
	ccd 7
grade 0 events	1671
	5%
grade 1 events	49
	0%
grade 2 events	3349
	10%
grade 3 events	2207
	6%
grade 4 events	2118
	6%
grade 5 events	3356
	10%
grade 6 events	7403
	22%
grade 7 events	13138
	39%

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	89.223120	89.19075364043221	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-33.180639	-33.17619186849881	Subarray start row	449	449
[deg] Pointing Roll	139.752346	139.8912673494191	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)	586003799.184000	586002534.80378			
Observation start date	2016-07-27T10:48:51	2016-07-27T10:28:54			
[s] Observation end time (MET)	586033522.184000	586033739.39307			
Observation end date	2016-07-27T19:04:14	2016-07-27T19:08:59			
Read mode	TIMED	TIMED			

2.3 Aspect



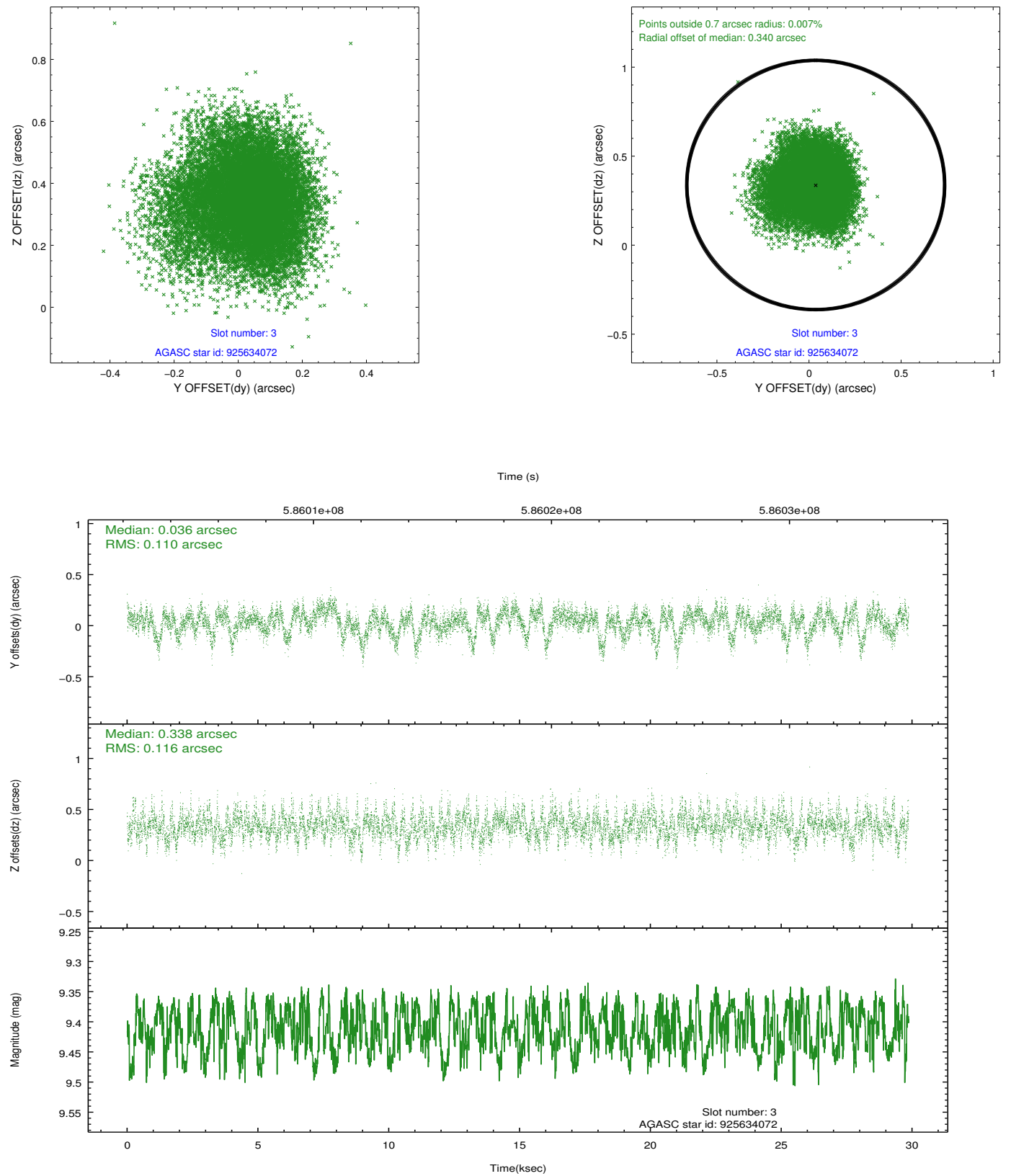


Slot Statistics

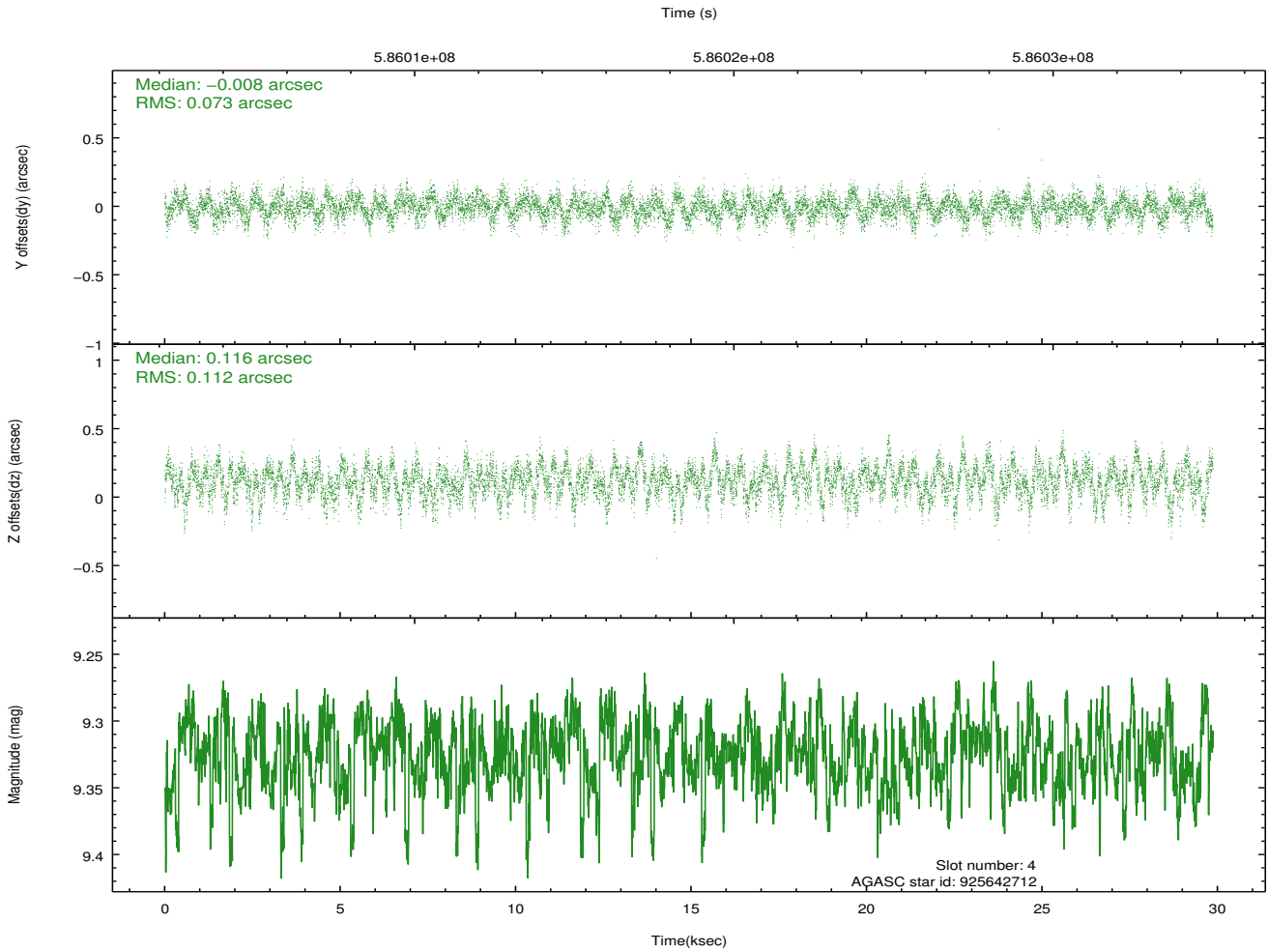
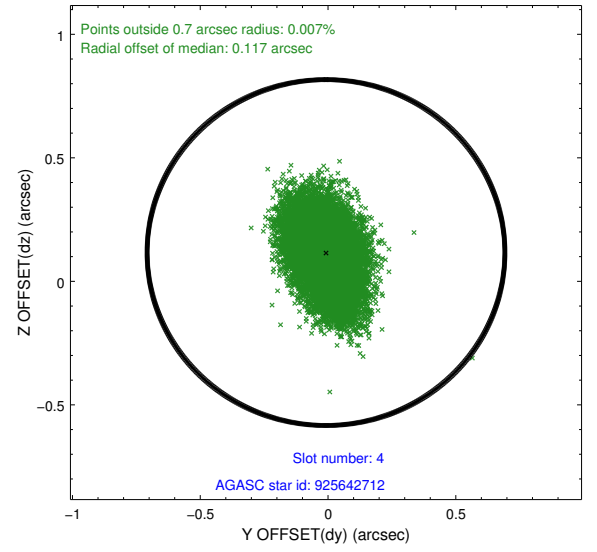
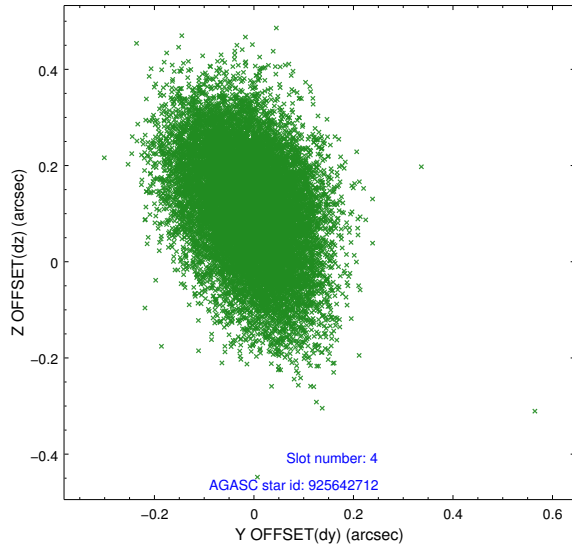
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	7285	-0.113	-0.036	0.014	0.026	0.000000	0.000000	-762.74	-1738.45
1	FID		ACIS-S-4	7.01	7285	0.295	0.064	0.009	0.016	0.000000	0.000000	2150.93	170.04
2	FID		ACIS-S-5	7.01	7284	-0.213	-0.020	0.012	0.021	0.000000	0.000000	-1815.57	163.74
3	GUIDE	used	925634072	9.41	14544	0.036	0.338	0.169	0.282	89.639500	-32.781209	-33.63	-1909.29
4	GUIDE	used	925642712	9.33	14555	-0.008	0.116	0.140	0.238	89.246145	-33.485552	-762.03	793.56
5	GUIDE	used	925642880	7.73	14567	-0.054	-0.041	0.097	0.161	89.133148	-33.434507	-384.26	872.21
6	GUIDE	used	925643520	9.24	14559	0.117	-0.040	0.140	0.243	88.970468	-33.727415	-695.55	1992.88
7	GUIDE	used	925645552	7.58	14565	-0.080	-0.373	0.097	0.151	88.738097	-33.665766	-21.85	2274.52

2.4 Star Slots

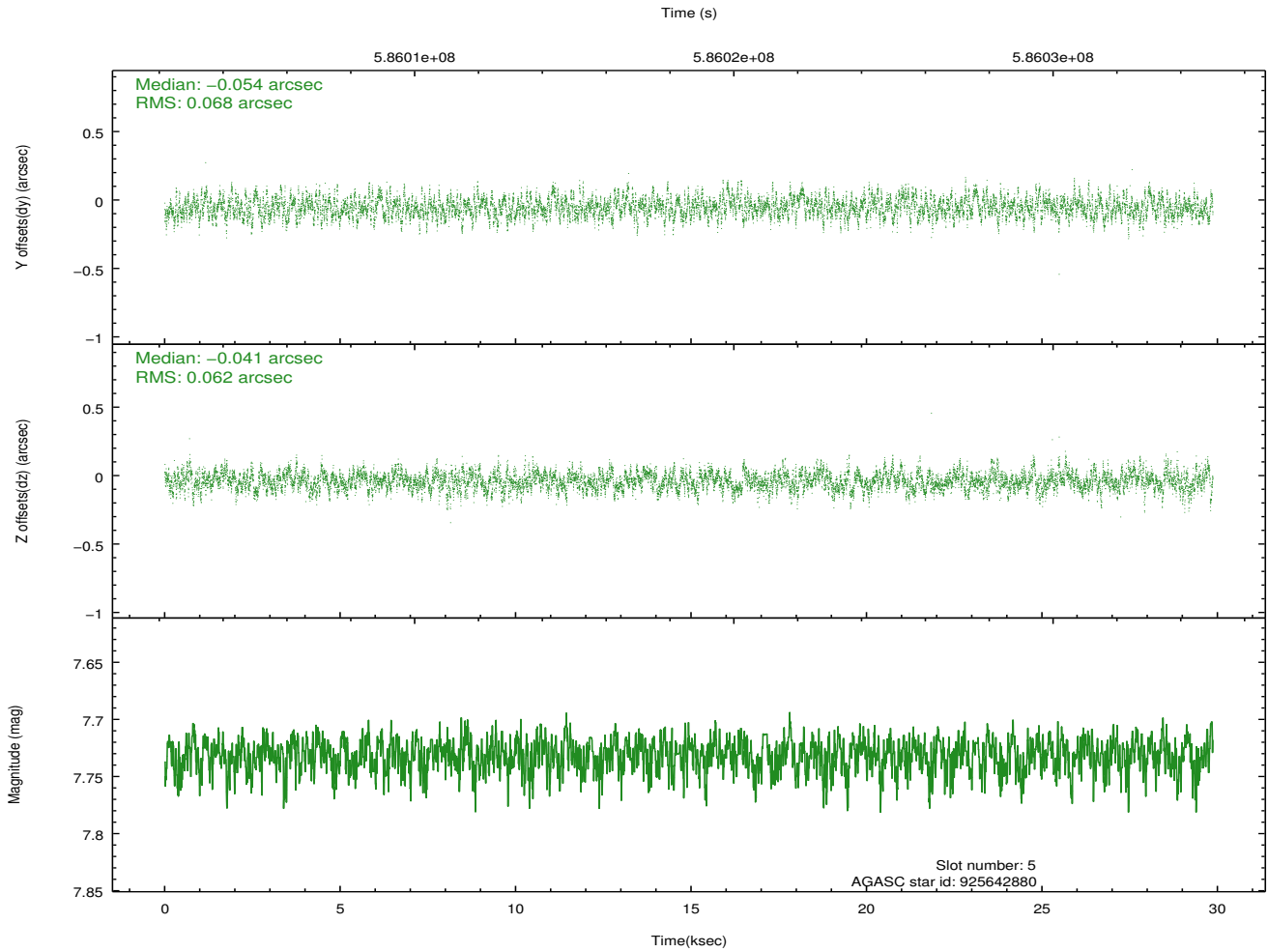
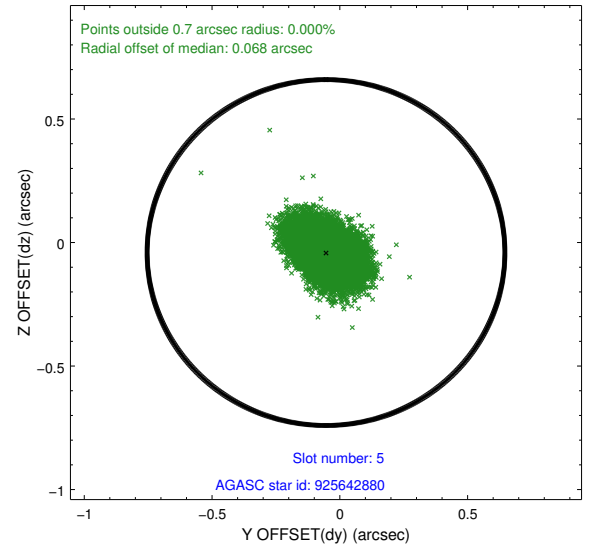
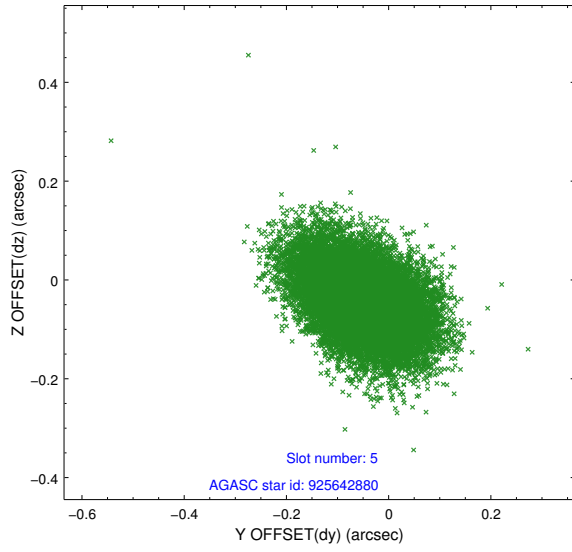
2.4.1 Slot 3



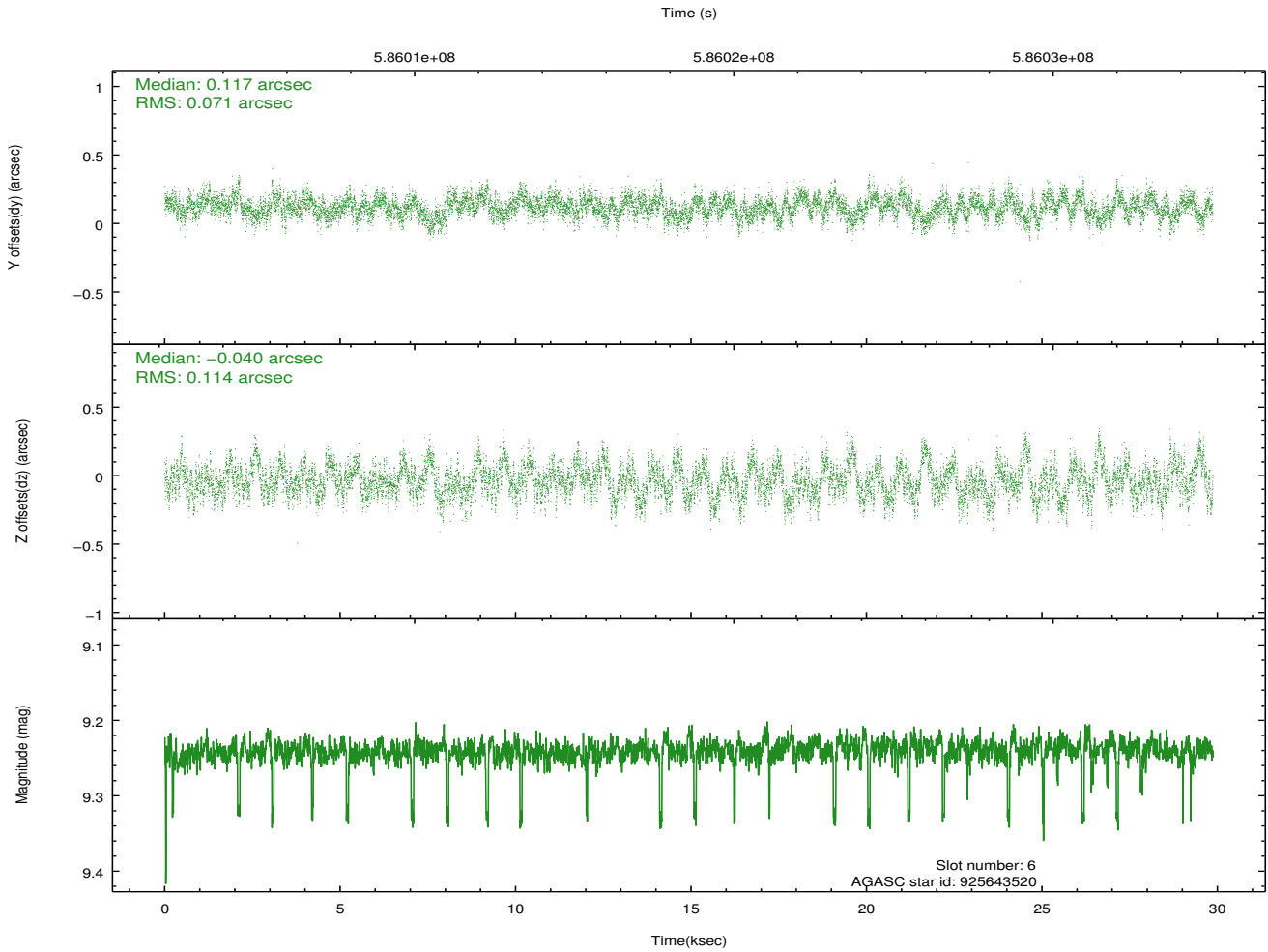
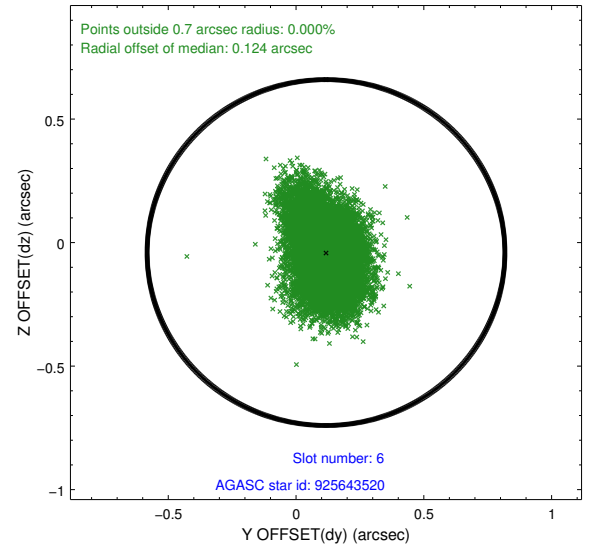
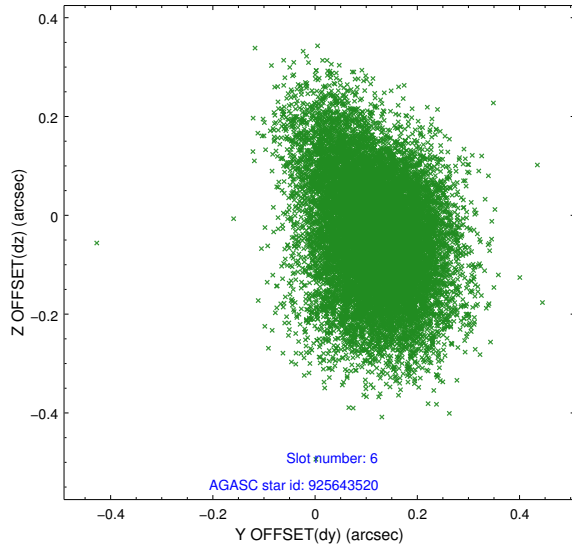
2.4.2 Slot 4



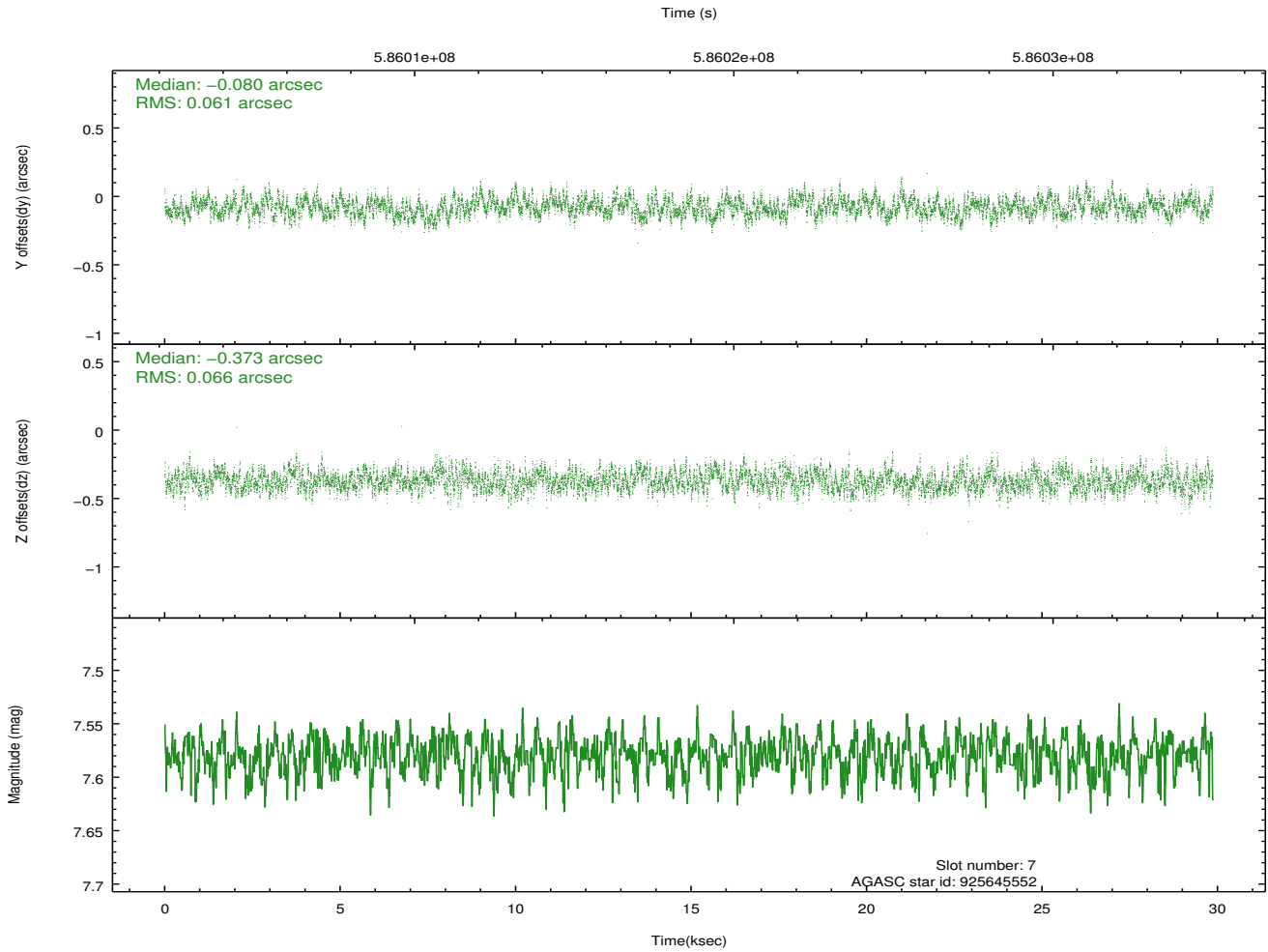
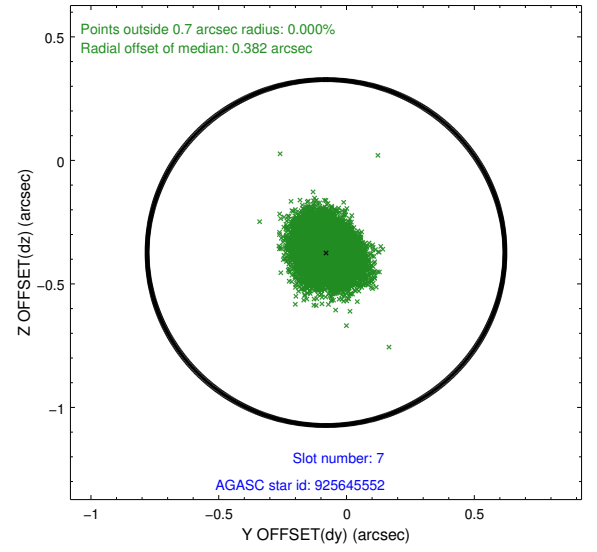
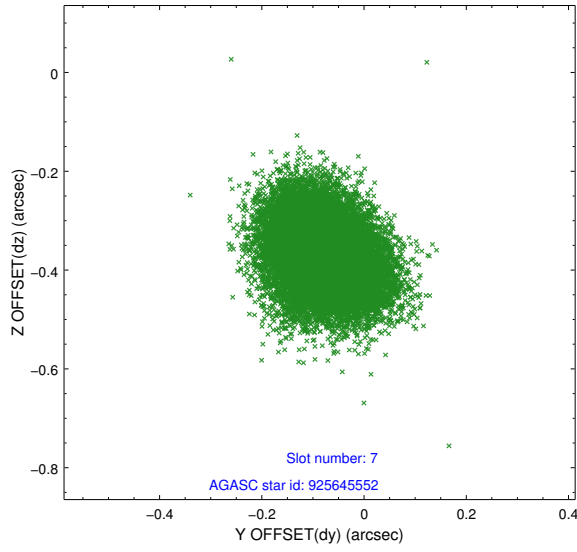
2.4.3 Slot 5



2.4.4 Slot 6

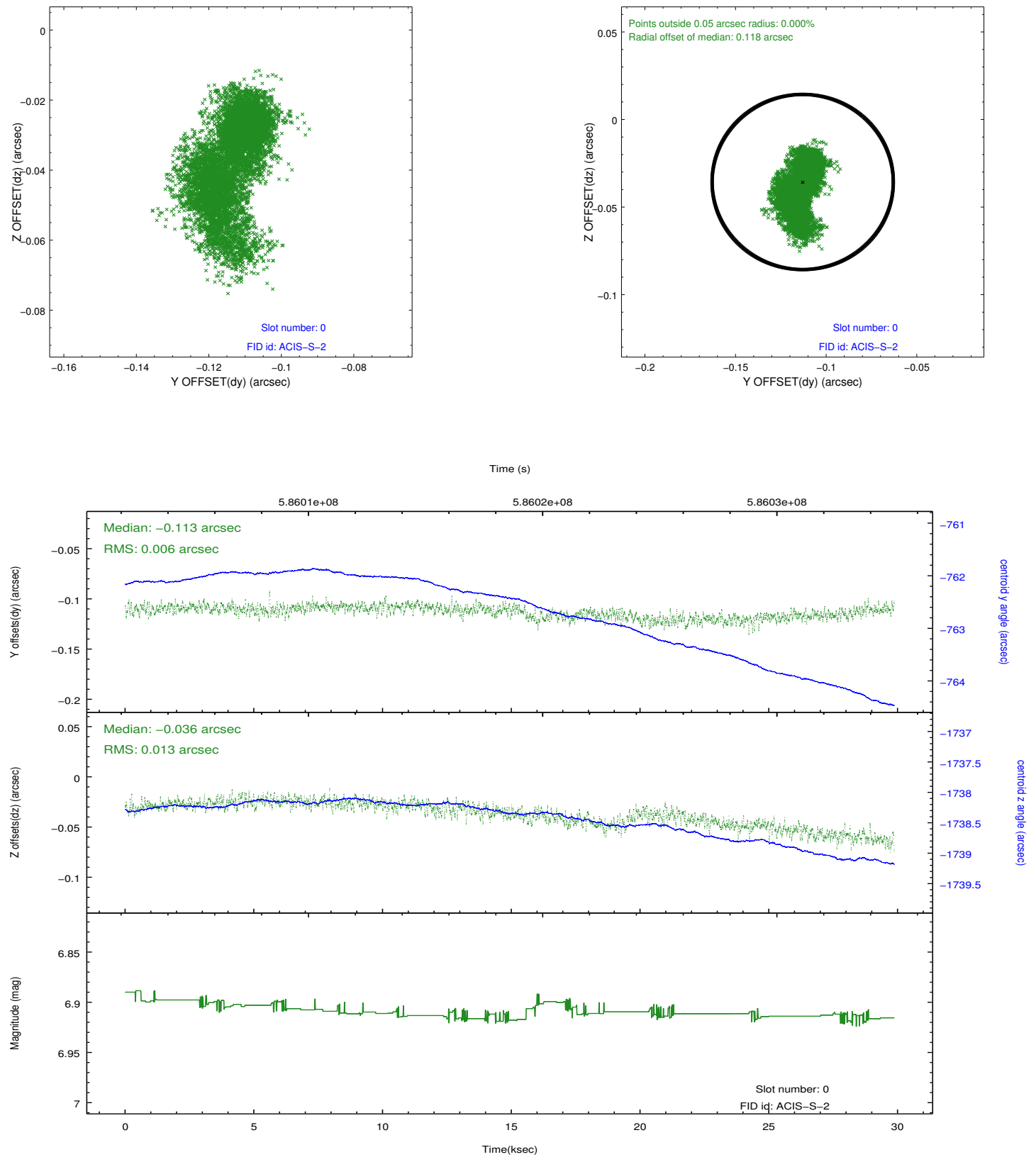


2.4.5 Slot 7

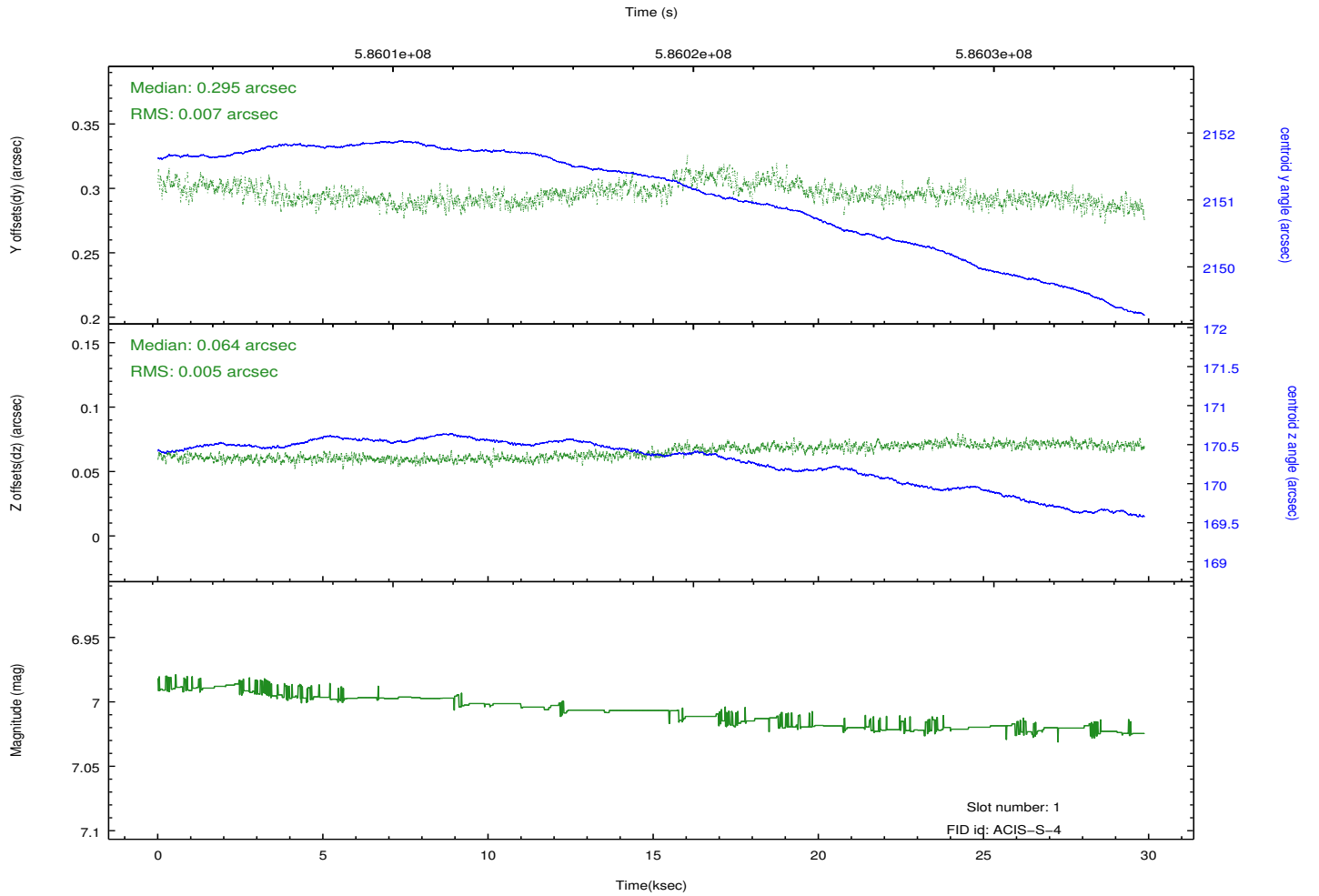
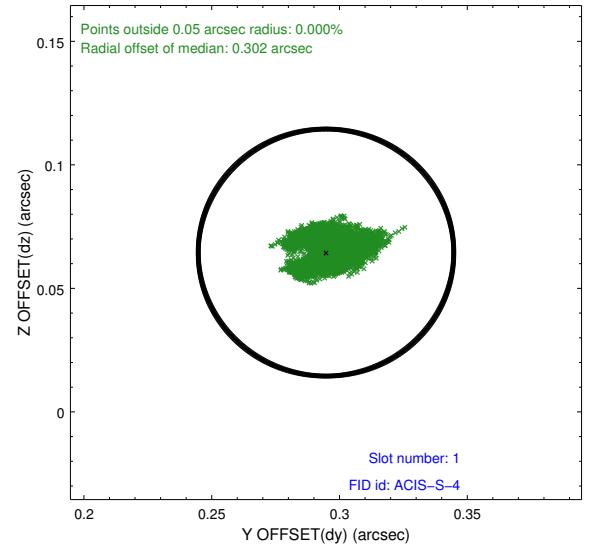
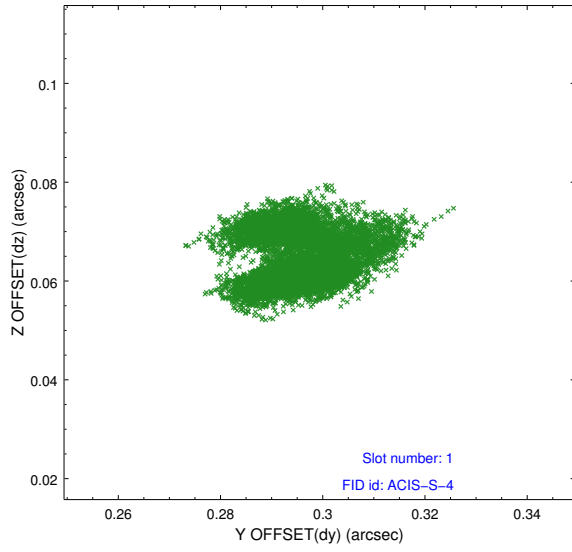


2.5 FID Slots

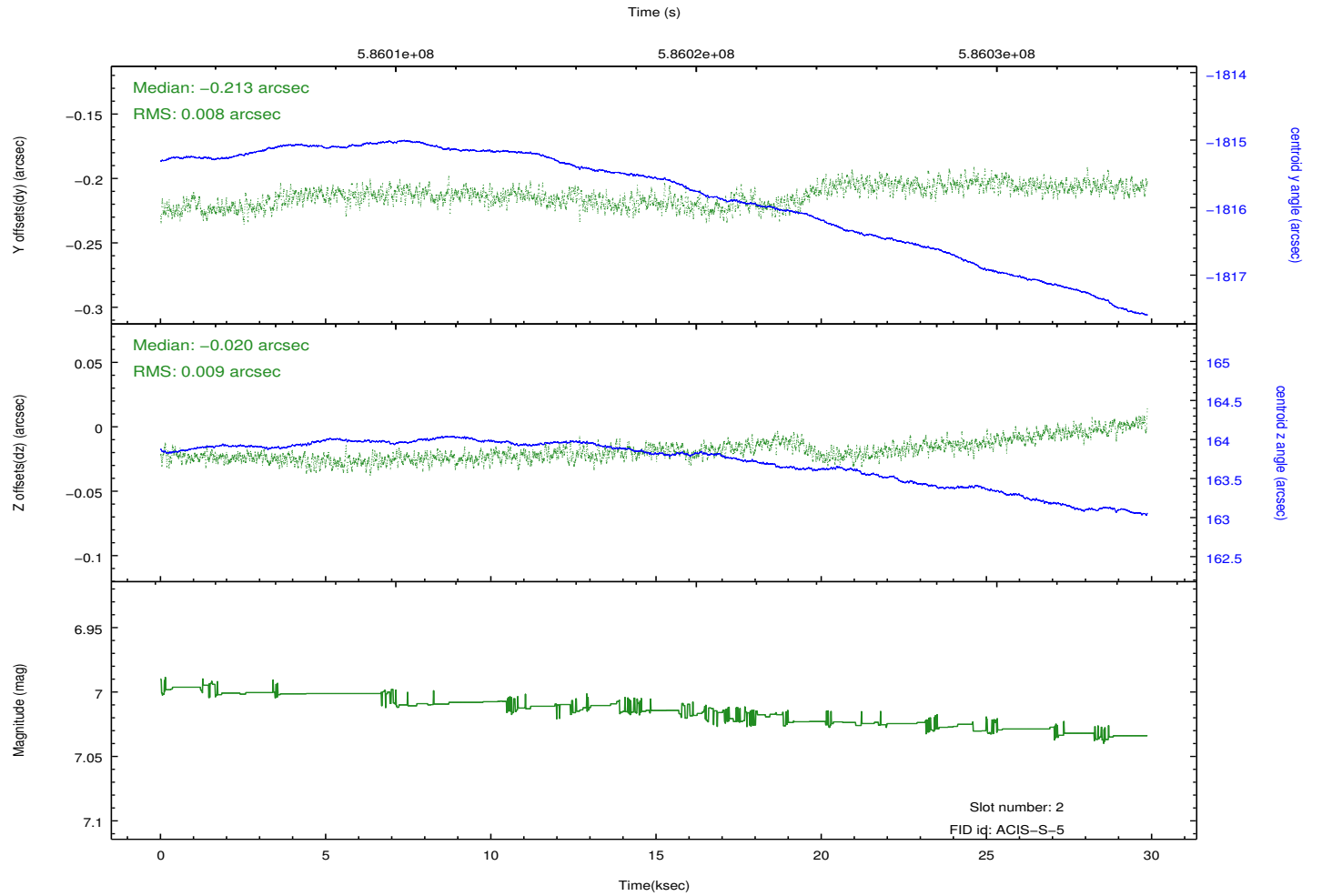
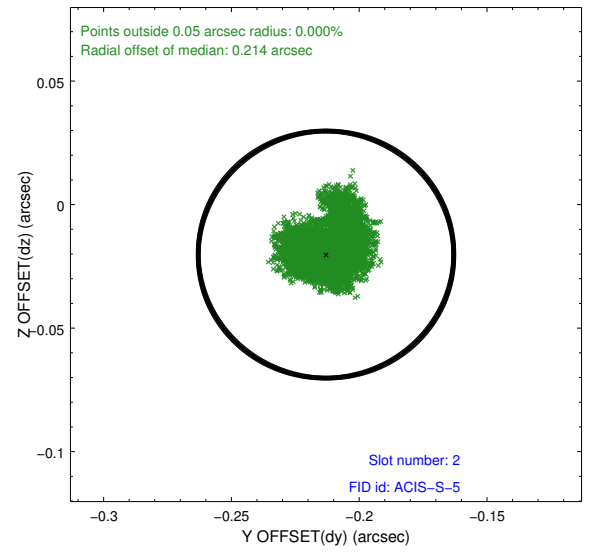
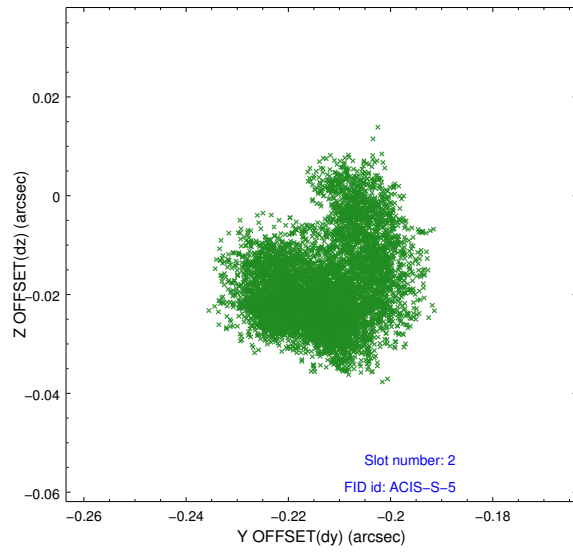
2.5.1 Slot 0



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)	2016.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.791998224139

A.2 Comments