

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21622 - L2 Version 1
Chandra X-Ray Center

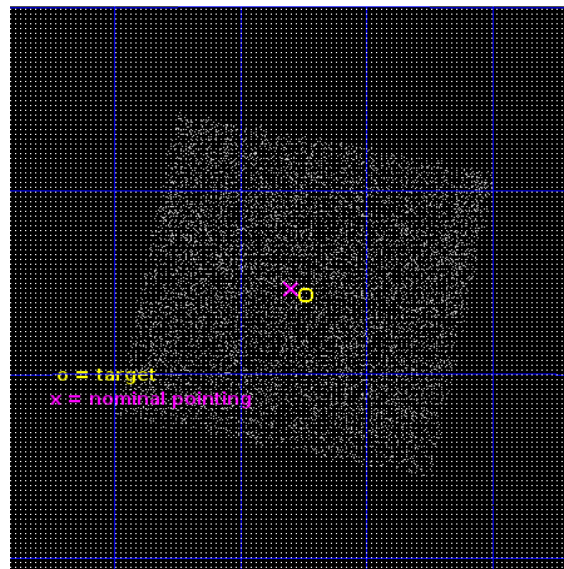
L2 Processing Date : Jul 29 2019

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1 Front

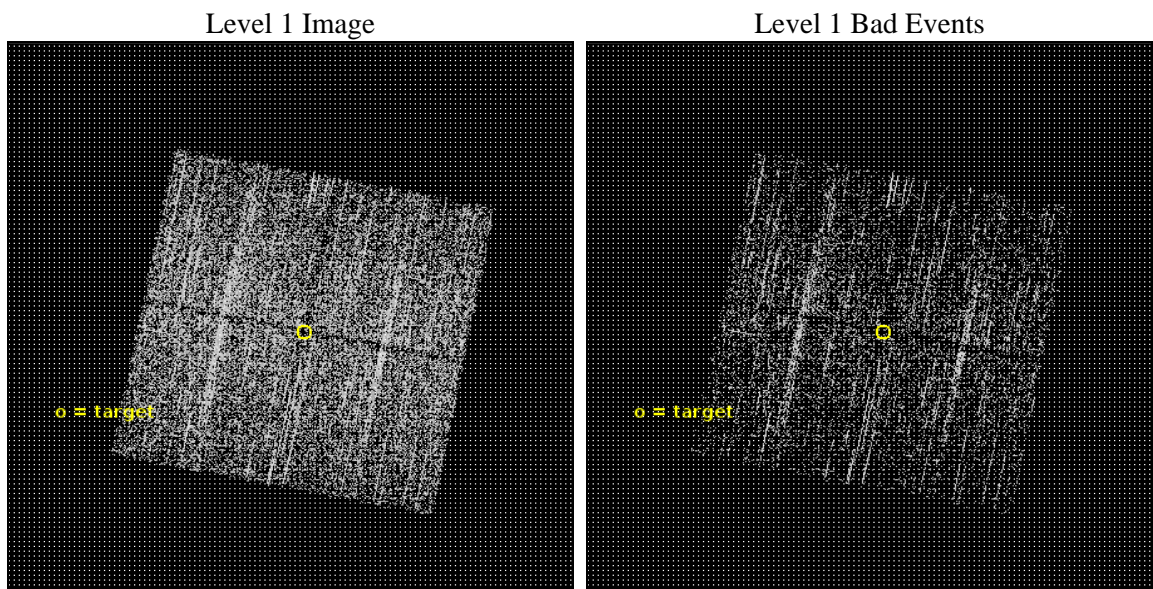
seq_num	300454	Sequence number
obs_id	21622	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.1852	Observer's specified target RA [deg]
dec_targ	-28.428513	Observer's specified target Dec [deg]
ra_nom	266.19927909892	Nominal RA [deg]
dec_nom	-28.422552300327	Nominal Dec [deg]
roll_nom	281.21539134779	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.4220209122	Sum of GTIs [s]
livetime	1883.4870822491	Livetime [s]
ontime0	1908.3809809685	Sum of GTIs [s]
ontime1	1908.4220209122	Sum of GTIs [s]
ontime2	1908.4630609751	Sum of GTIs [s]
ontime3	1908.5041007996	Sum of GTIs [s]
l2events	6735	Number of level 2 events



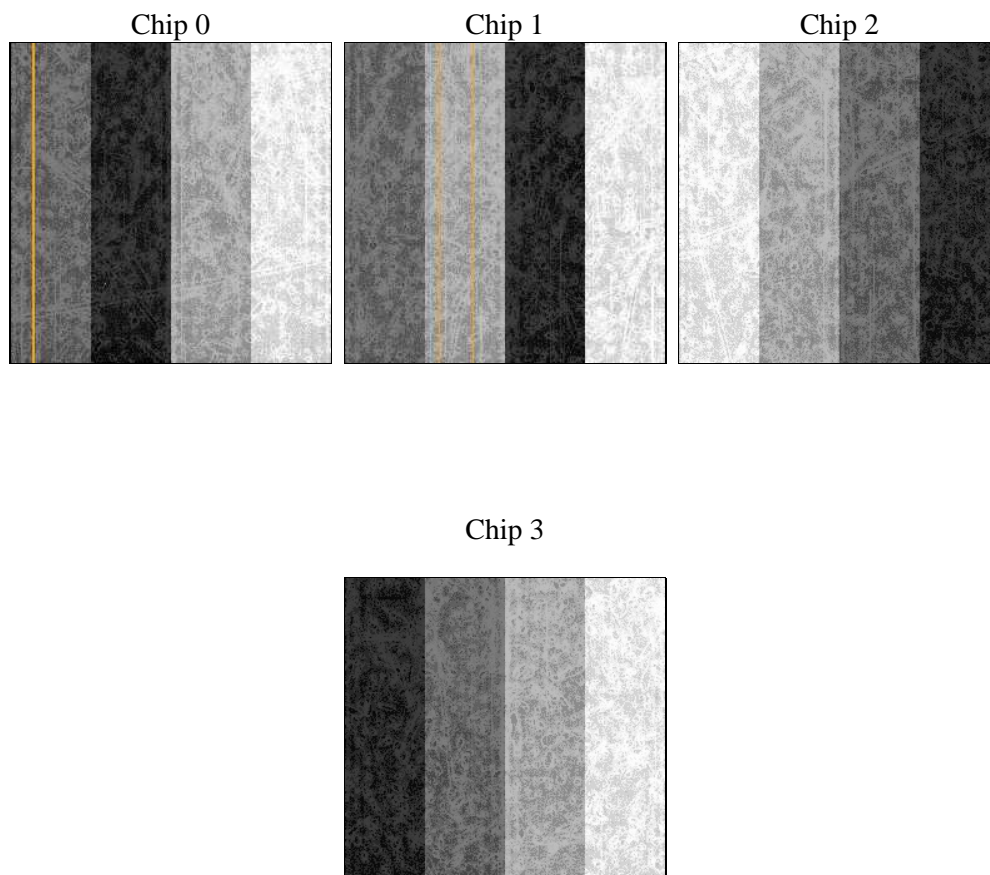
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.4220209122	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.3809809685	Sum of GTIs [s]
date	2019-07-29T04:43:03	Date and time of file creation	ontime1	1908.4220209122	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.4630609751	Sum of GTIs [s]
			ontime3	1908.5041007996	Sum of GTIs [s]
			l1events	57358	Number of level 1 events

2.1.4 Events

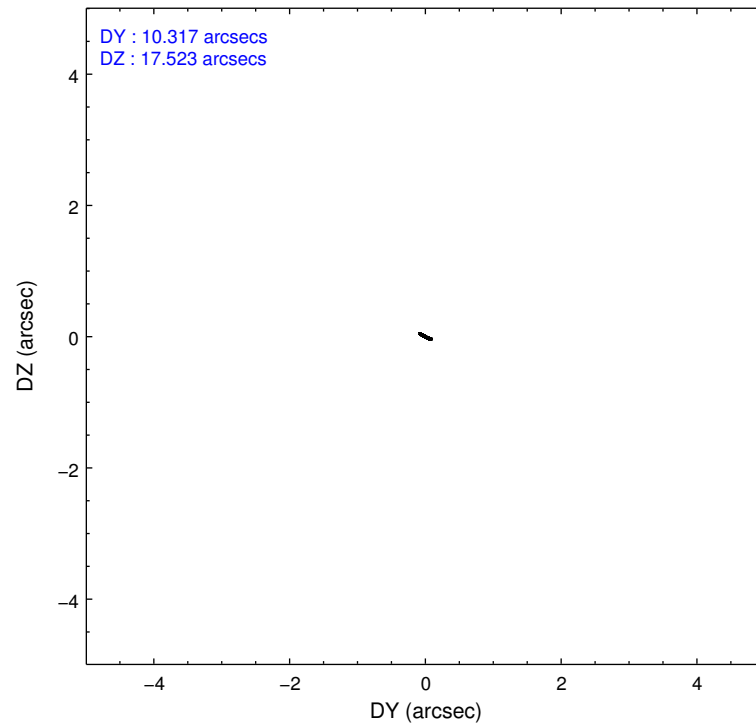
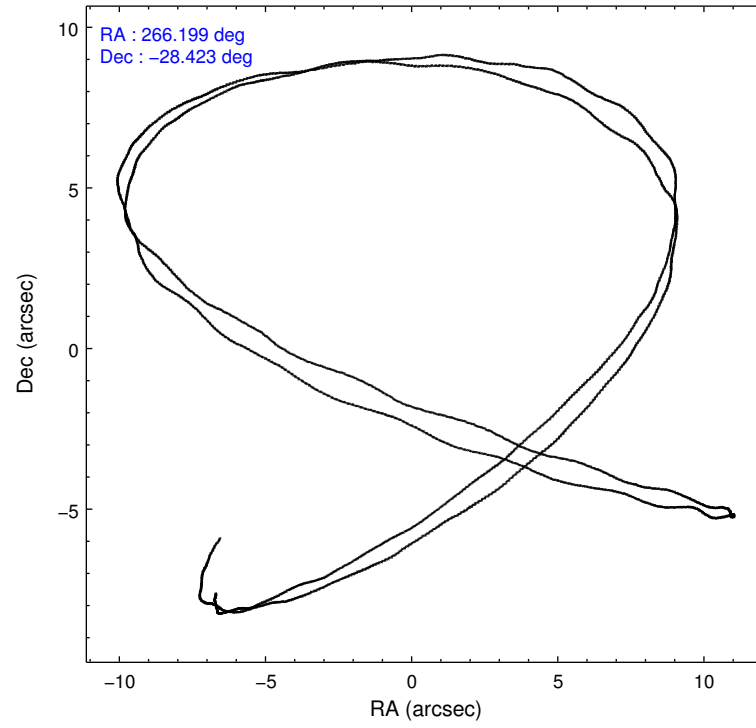
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13493	13962	14656	15247
rejected events	11550	11883	12761	13267
rejected %	85%	85%	87%	87%

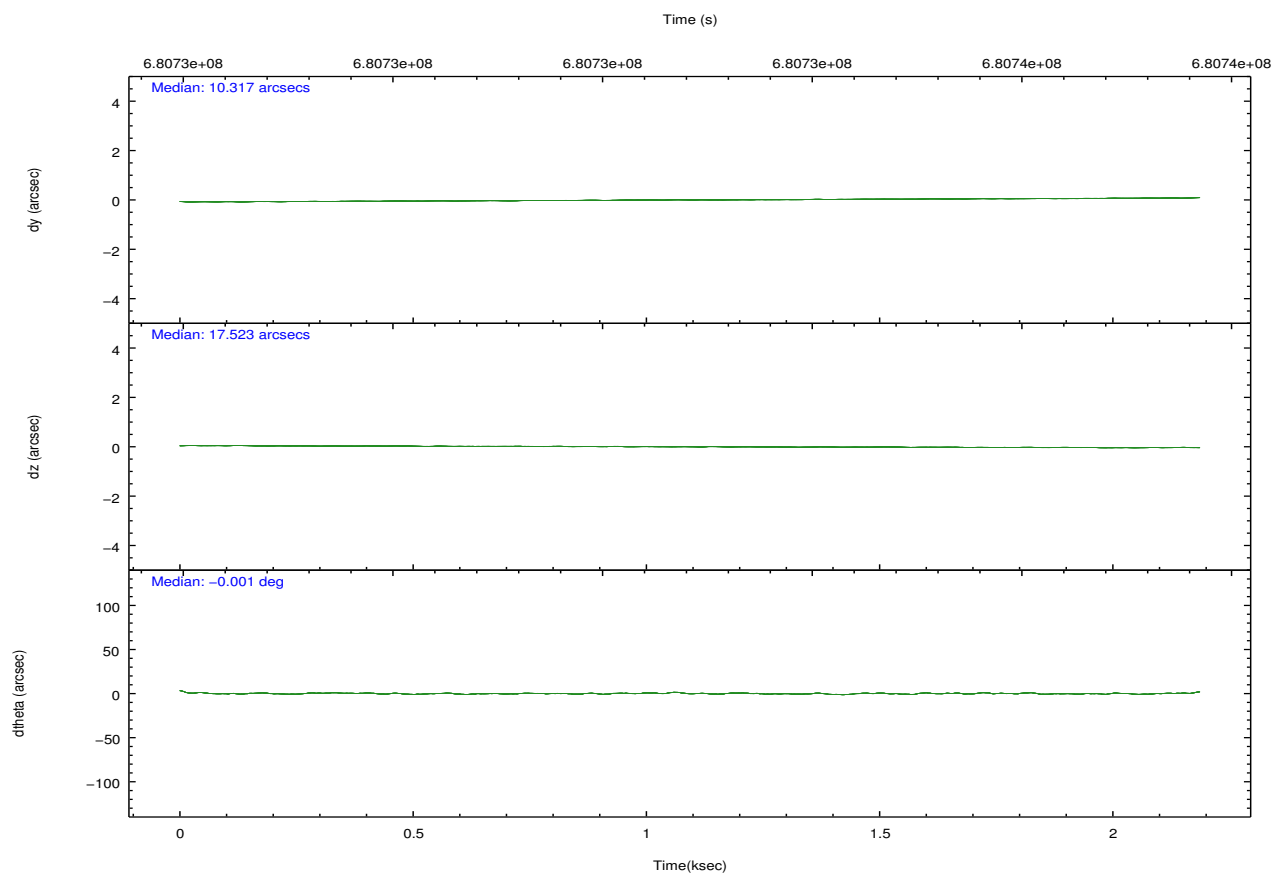
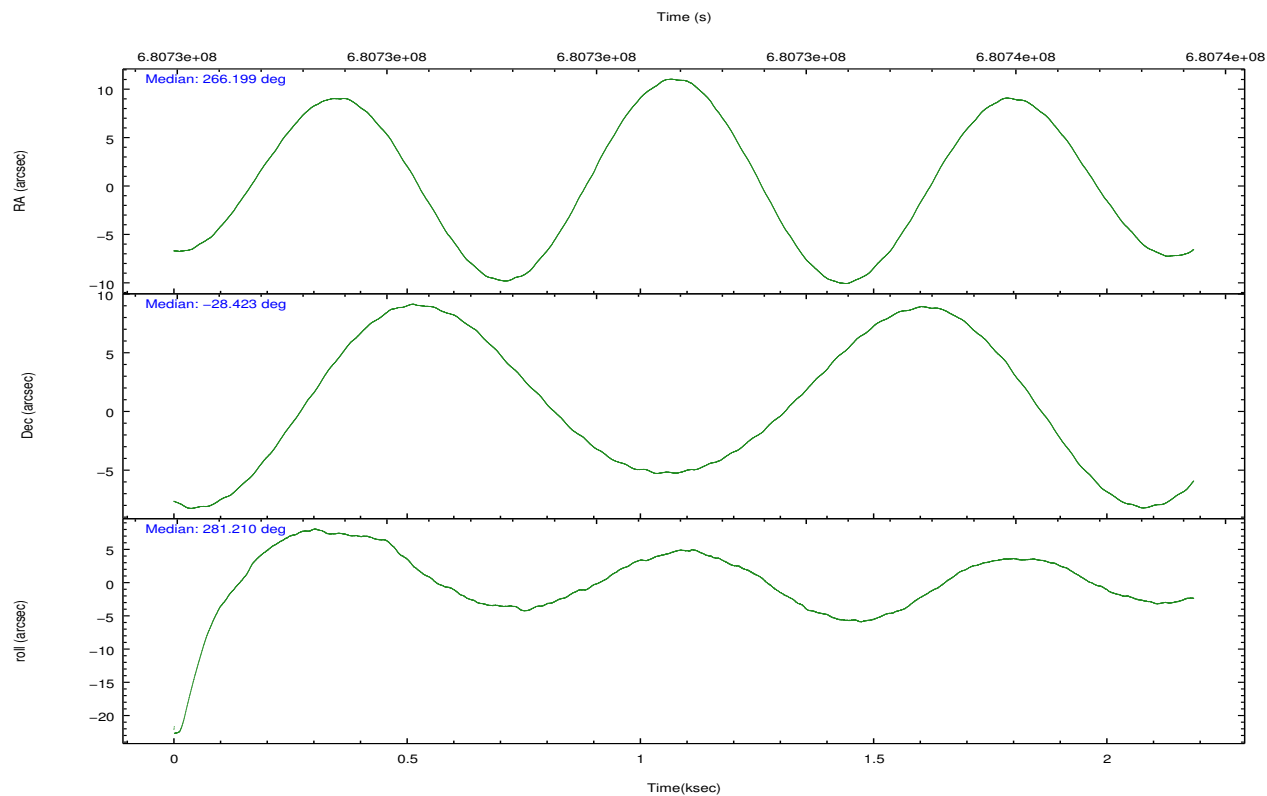
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	735	794	817	887
	5%	5%	5%	5%
grade 1 events	6	4	11	15
	0%	0%	0%	0%
grade 2 events	471	531	425	407
	3%	3%	2%	2%
grade 3 events	182	190	164	182
	1%	1%	1%	1%
grade 4 events	180	166	177	177
	1%	1%	1%	1%
grade 5 events	652	644	614	702
	4%	4%	4%	4%
grade 6 events	375	401	315	333
	2%	2%	2%	2%
grade 7 events	10892	11232	12133	12544
	80%	80%	82%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	266.178500	266.199279098919	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.401680	-28.42255230032748	Alternating exposures requested	N	N
[deg] Pointing Roll	280.996814	281.2153913477921	[s] Primary exposure time	0.000000	3.1
[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)	680733307.184000	680732930.78005			
Observation start date	2019-07-28T20:33:58	2019-07-28T20:28:50			
[s] Observation end time (MET)	680735307.184000	680735441.0052			
Observation end date	2019-07-28T21:07:18	2019-07-28T21:10:41			
Read mode	TIMED	TIMED			

2.3 Aspect



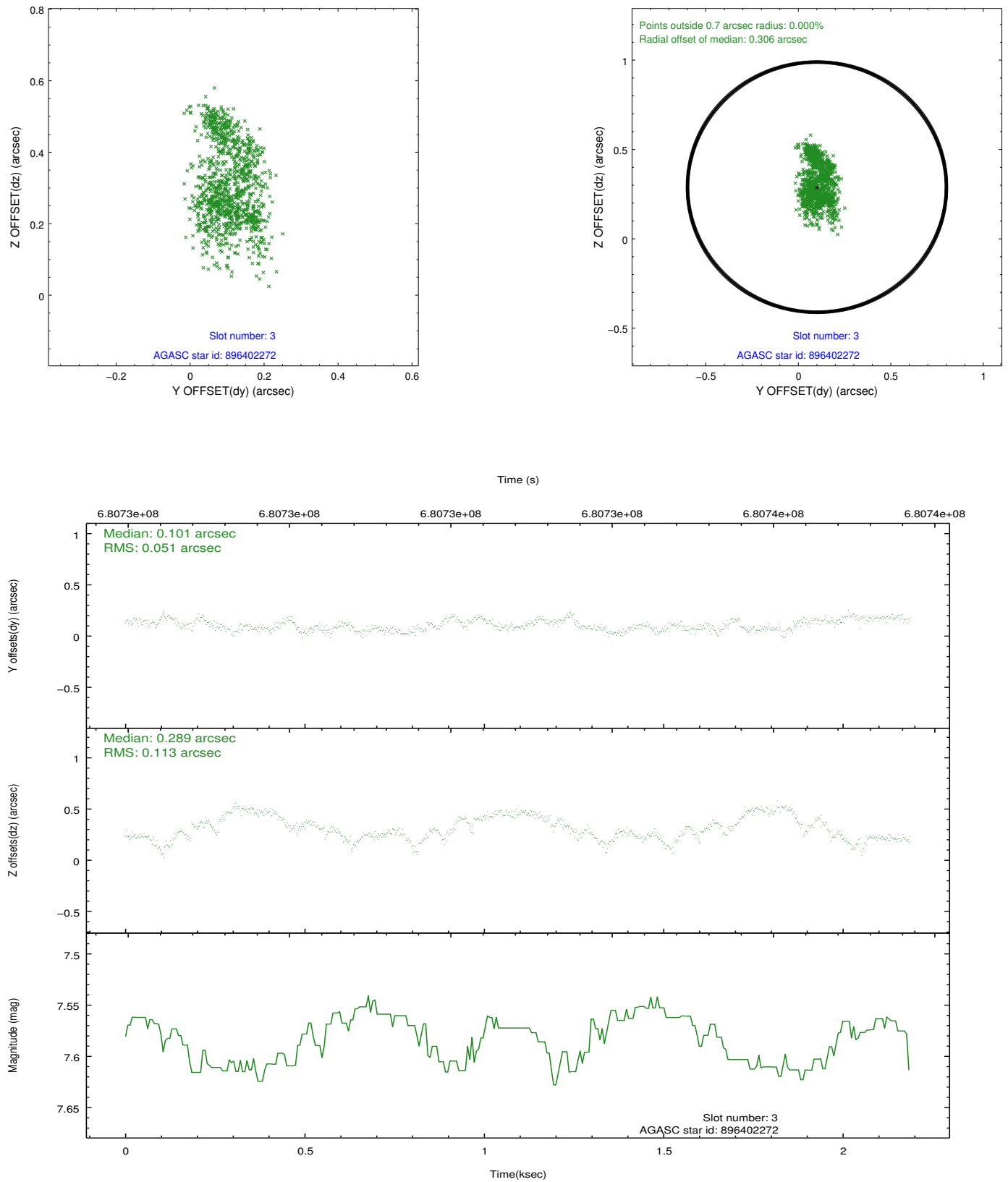


Slot Statistics

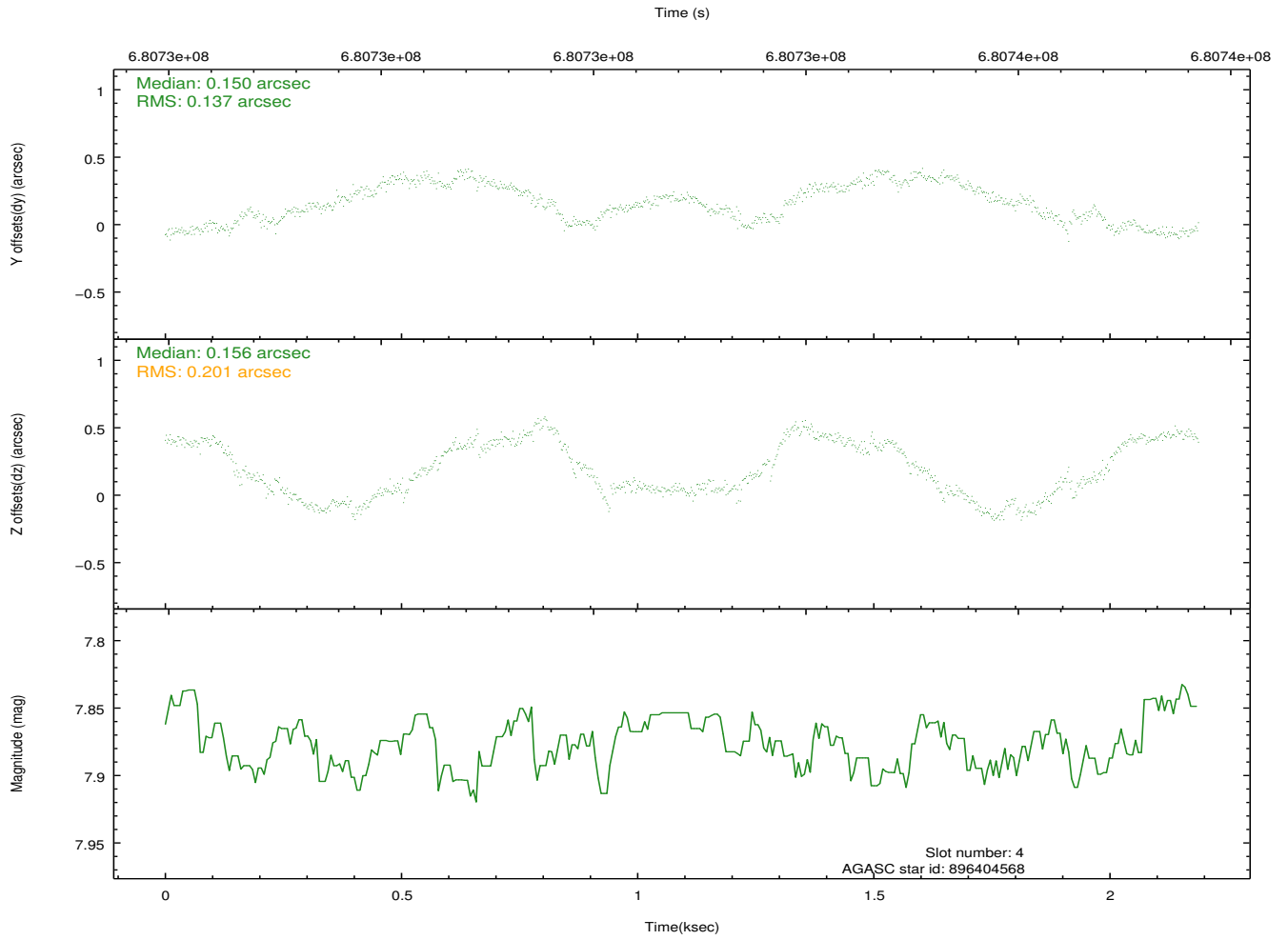
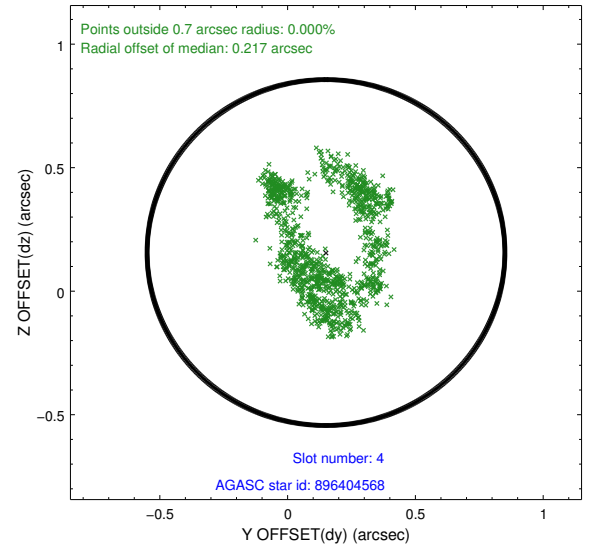
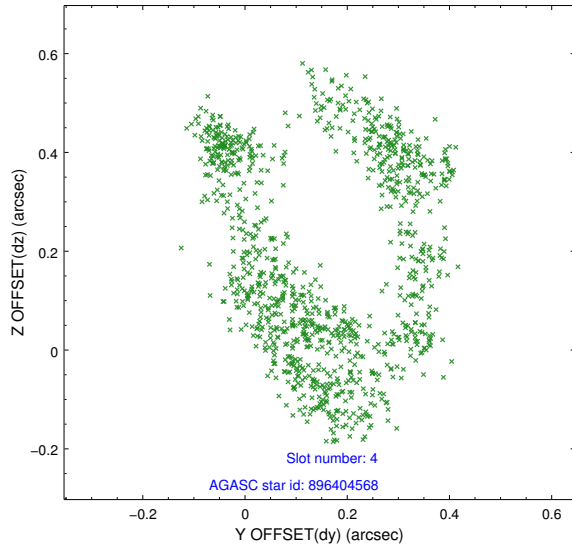
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.11	534	1.000	-0.097	-0.123	0.009	0.017	0.000000	0.000000	-765.02	-847
1	FID		ACIS-I-5	7.23	534	1.000	-0.323	-0.057	0.008	0.014	0.000000	0.000000	-1820.66	1054
2	FID		ACIS-I-6	7.21	534	1.000	0.326	0.249	0.006	0.010	0.000000	0.000000	391.93	1702
3	GUIDE	used	896402272	7.58	1068	1.000	0.101	0.289	0.132	0.216	265.637294	-28.313189	-636.10	-1623
4	GUIDE	used	896404568	7.88	1068	1.000	0.150	0.156	0.281	0.355	265.687293	-28.431080	-190.13	-1548
5	GUIDE	used	896534664	8.18	1068	1.000	-0.015	-0.081	0.211	0.300	266.405570	-28.407461	158.72	700
6	GUIDE	used	896537176	8.01	1068	1.000	-0.130	-0.282	0.153	0.212	266.498272	-28.678259	1171.37	801
7	GUIDE	used	896538696	6.80	1067	1.000	-0.110	-0.099	0.185	0.236	266.298470	-28.325572	-195.47	426

2.4 Star Slots

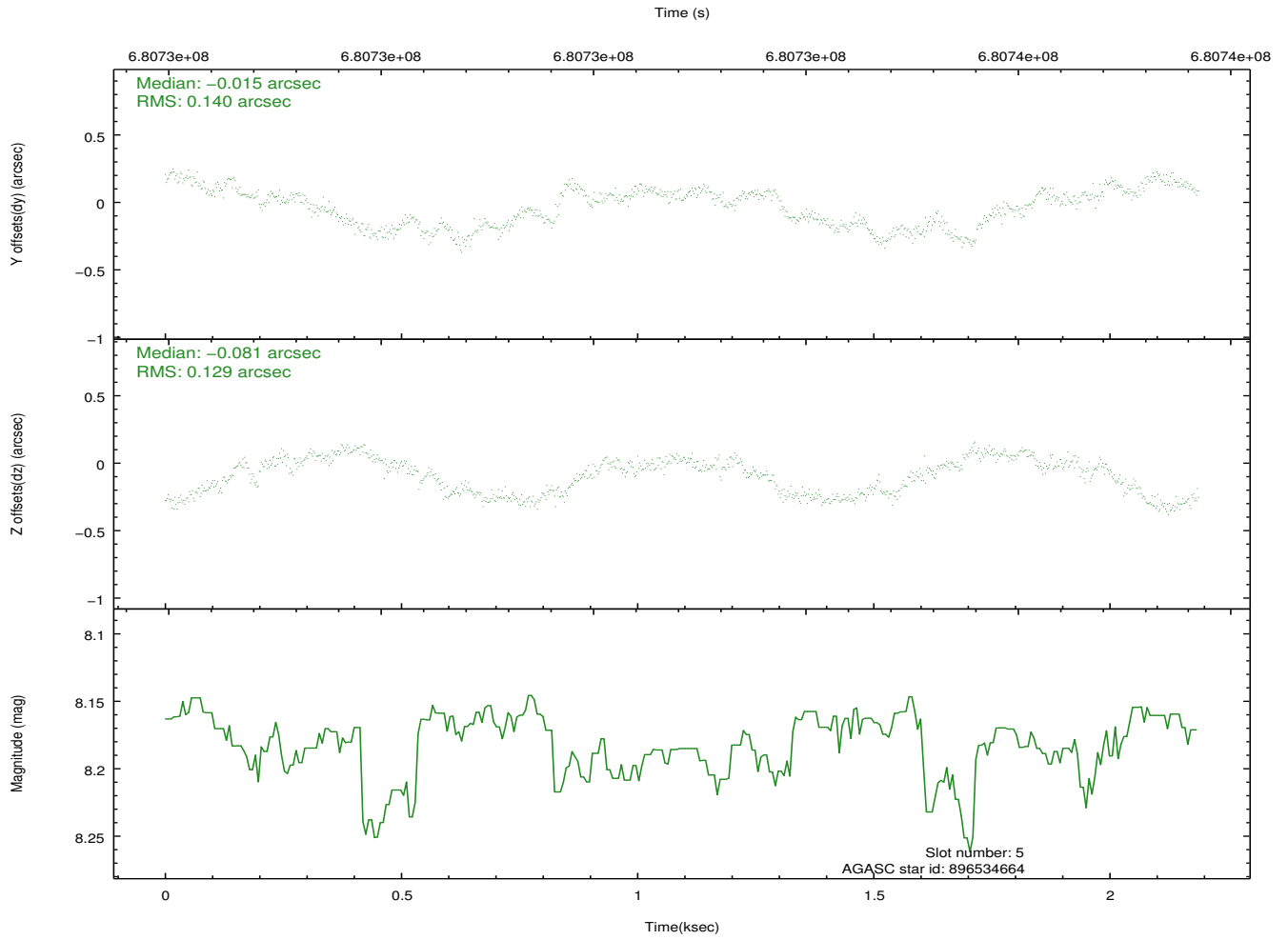
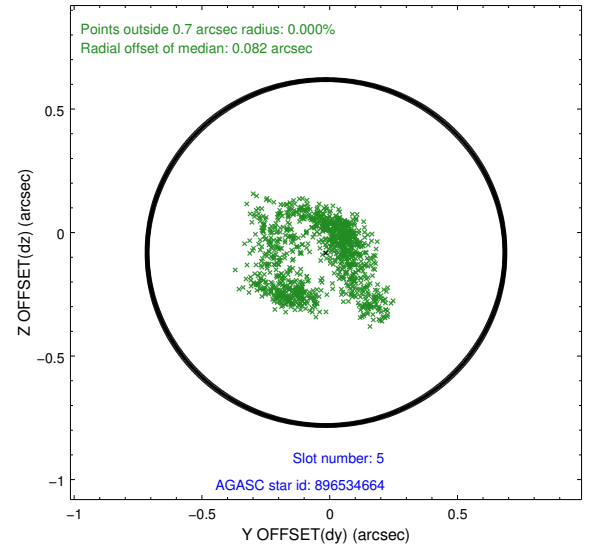
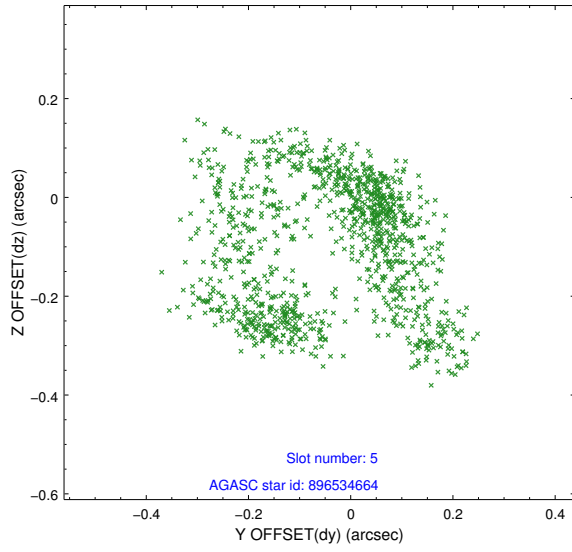
2.4.1 Slot 3



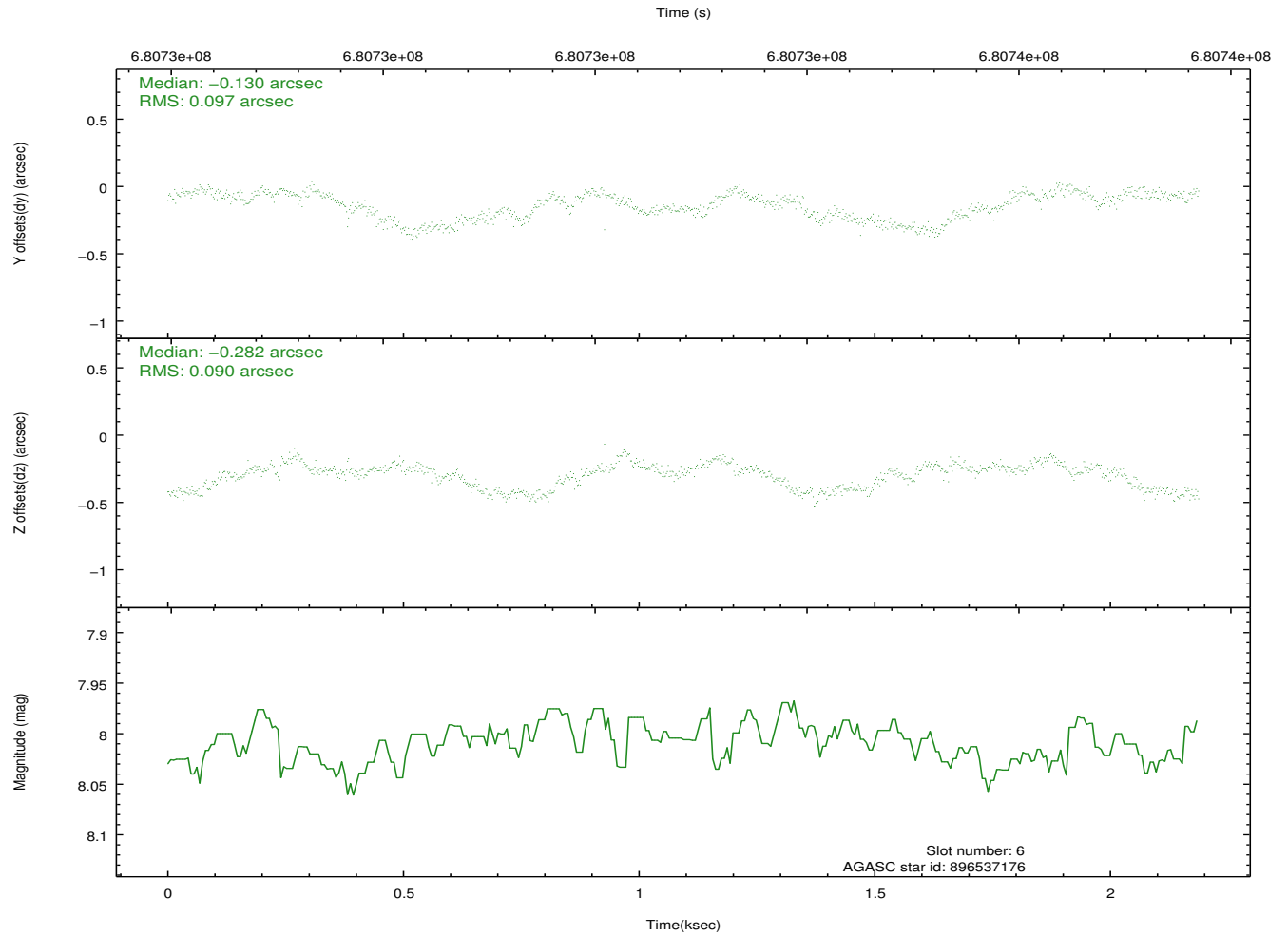
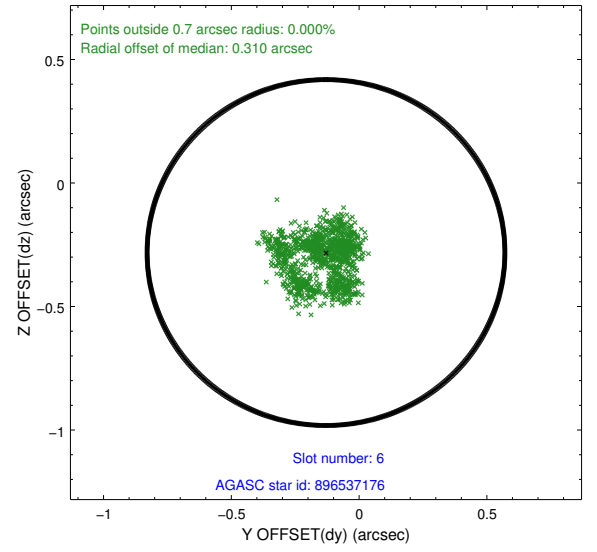
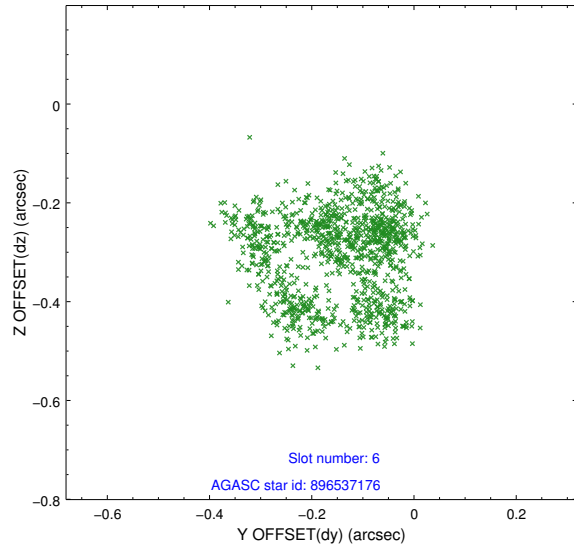
2.4.2 Slot 4



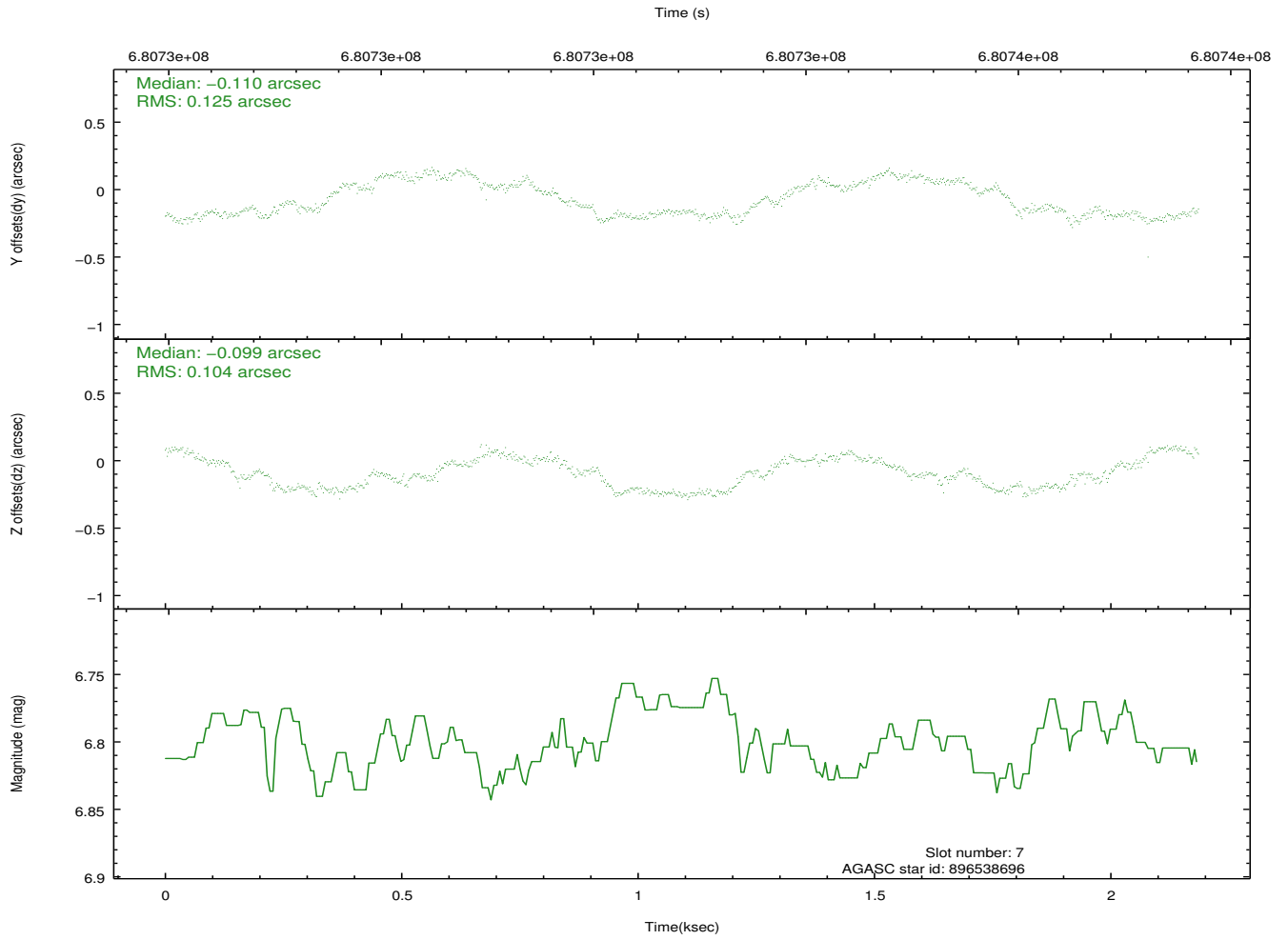
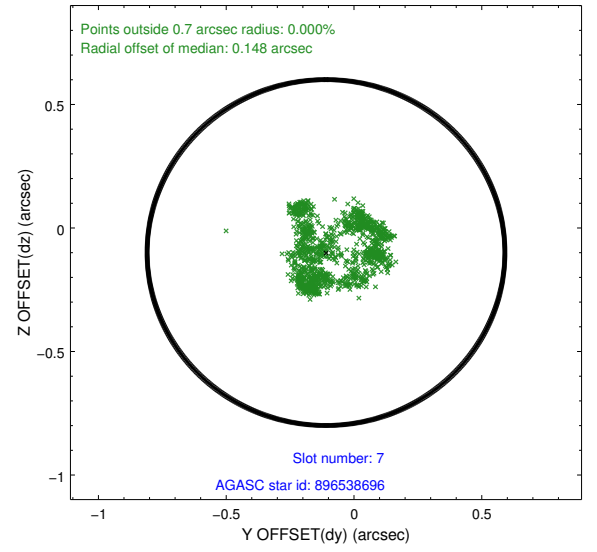
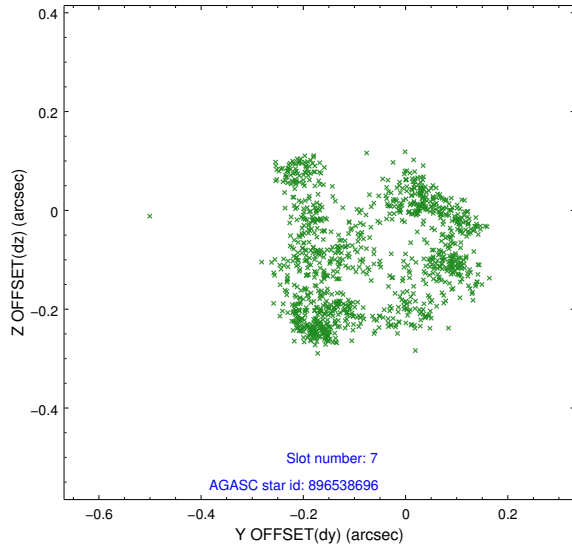
2.4.3 Slot 5



2.4.4 Slot 6

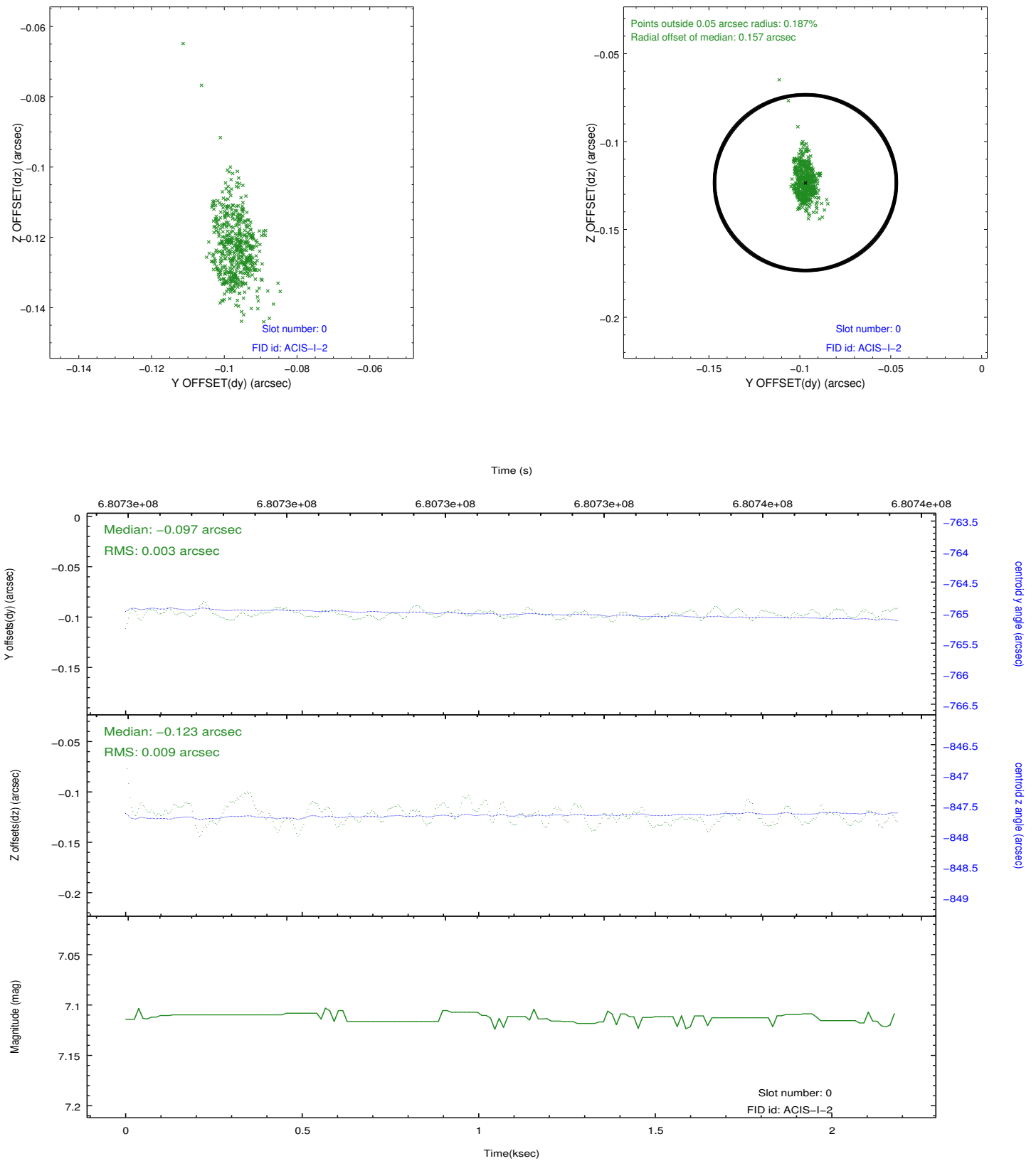


2.4.5 Slot 7

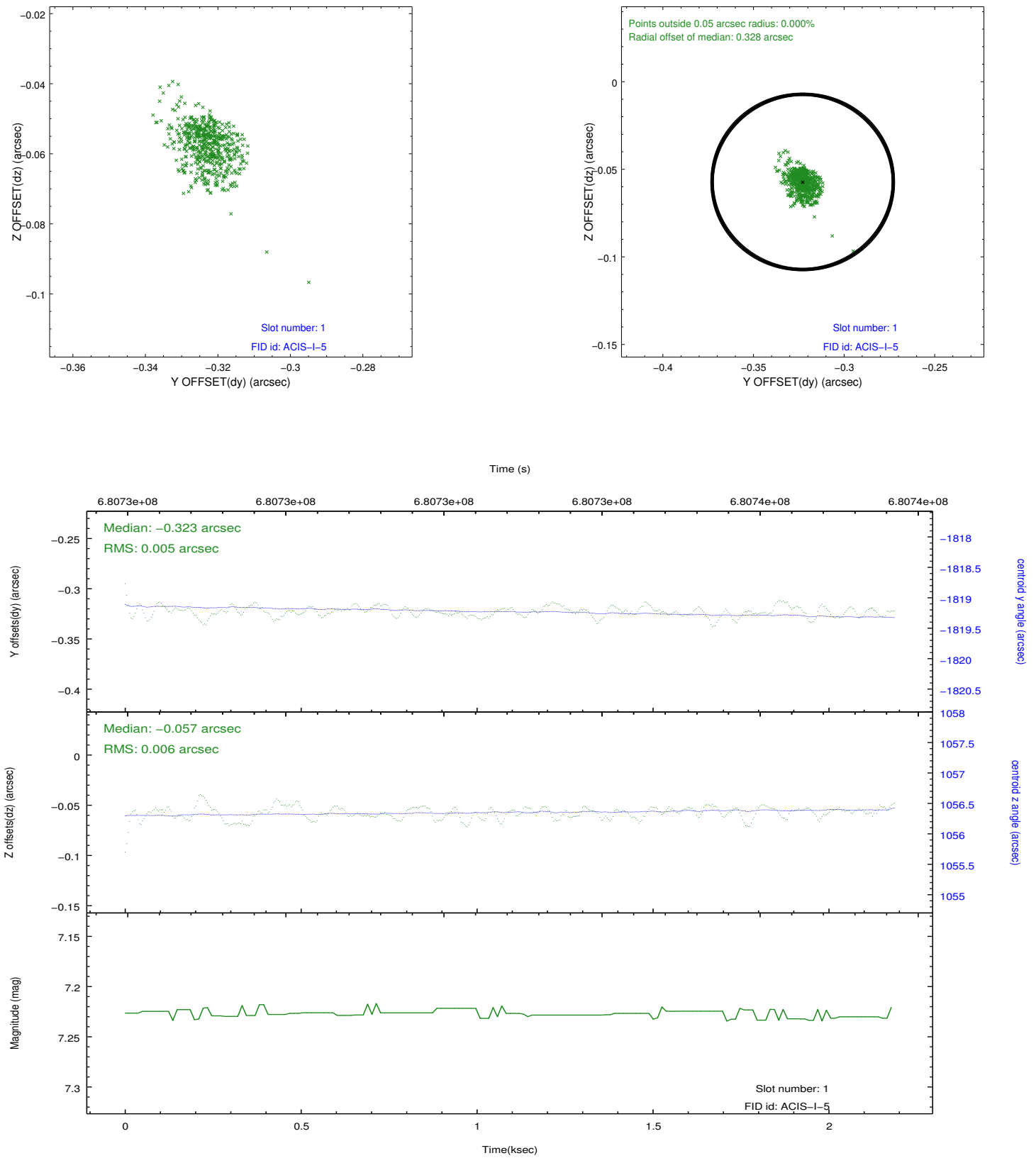


2.5 FID Slots

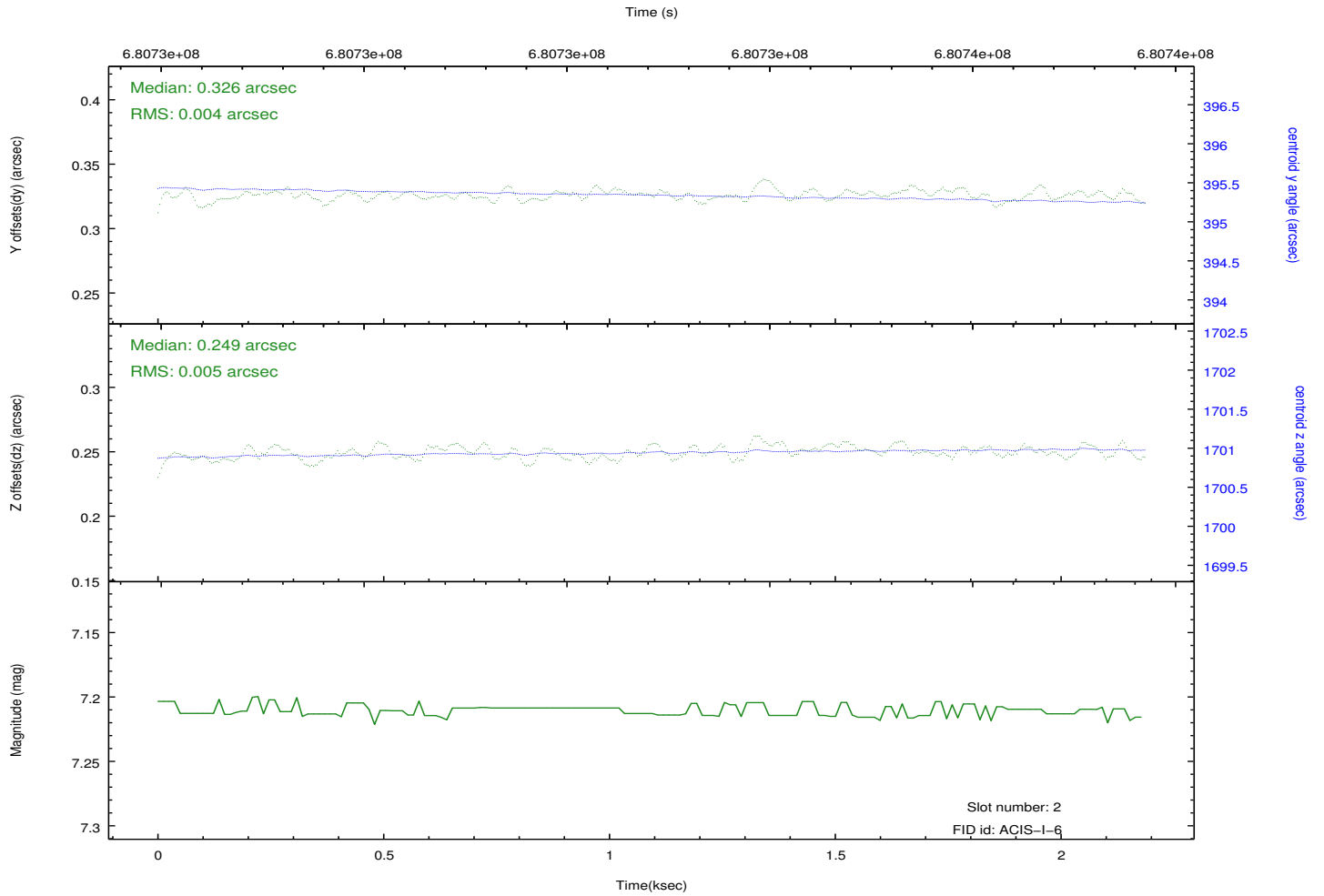
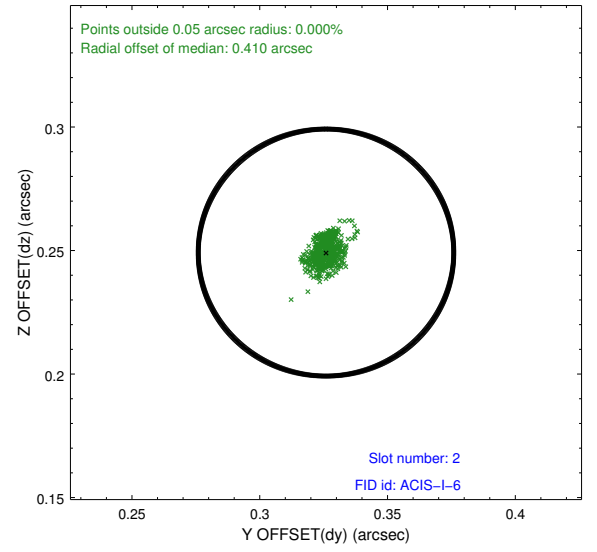
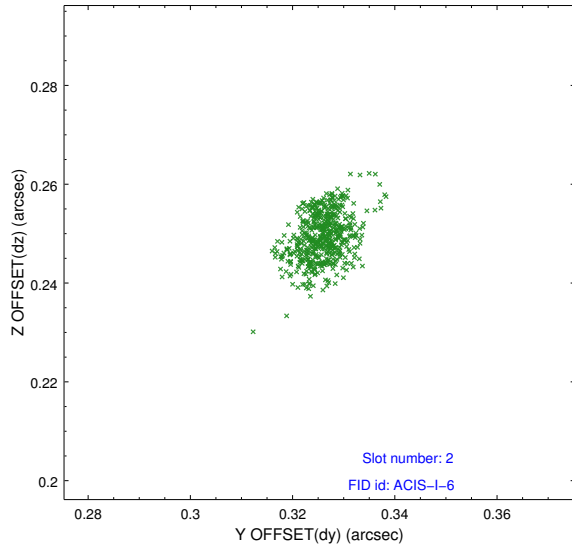
2.5.1 Slot 0



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)	2019.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9084220209122

A.2 Comments