

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21623 - L2 Version 1
Chandra X-Ray Center

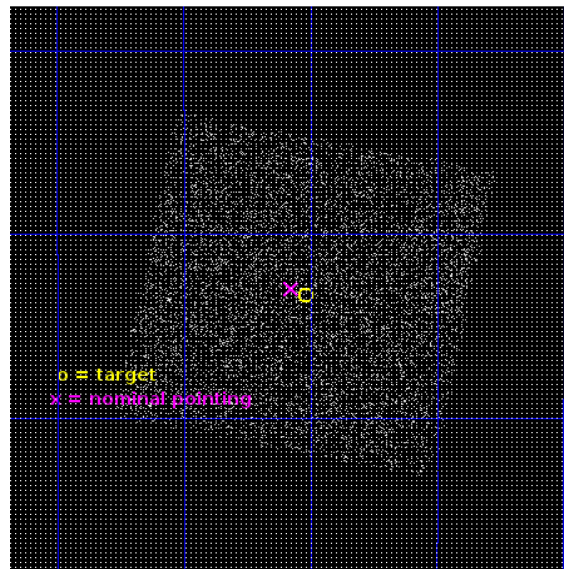
L2 Processing Date : Jul 29 2019

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1 Front

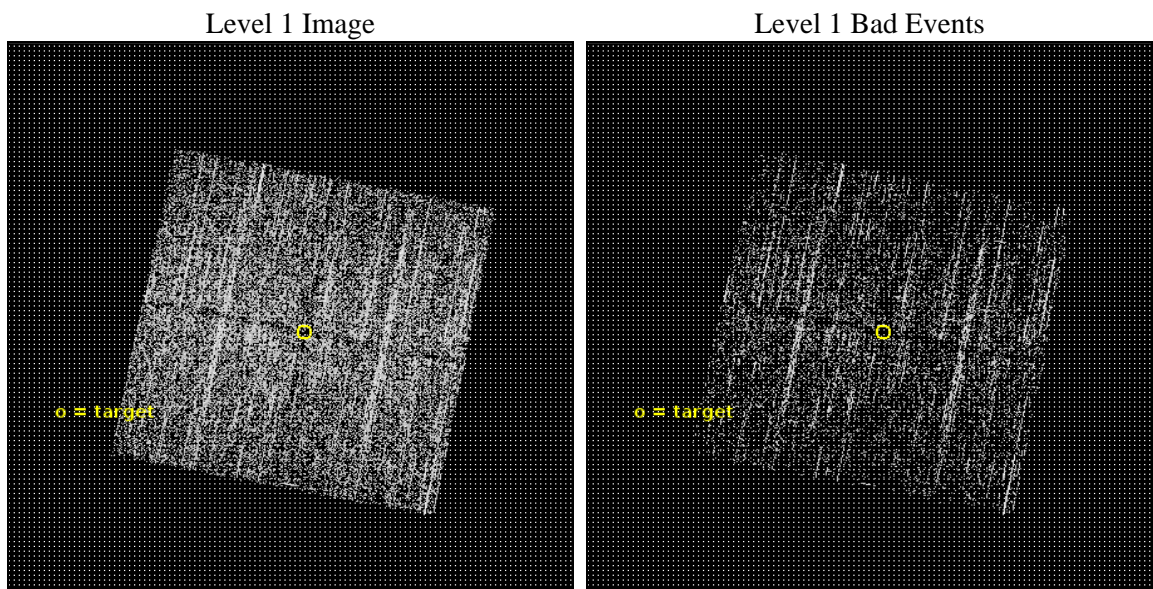
seq_num	300455	Sequence number
obs_id	21623	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.25463	Observer's specified target RA [deg]
dec_targ	-27.889166	Observer's specified target Dec [deg]
ra_nom	266.26872719528	Nominal RA [deg]
dec_nom	-27.882855398136	Nominal Dec [deg]
roll_nom	281.21540854604	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.5577100515	Sum of GTIs [s]
livetime	1883.62099851	Livetime [s]
ontime0	1908.5166701078	Sum of GTIs [s]
ontime1	1908.5577100515	Sum of GTIs [s]
ontime2	1908.5987501144	Sum of GTIs [s]
ontime3	1908.6397900581	Sum of GTIs [s]
l2events	5983	Number of level 2 events



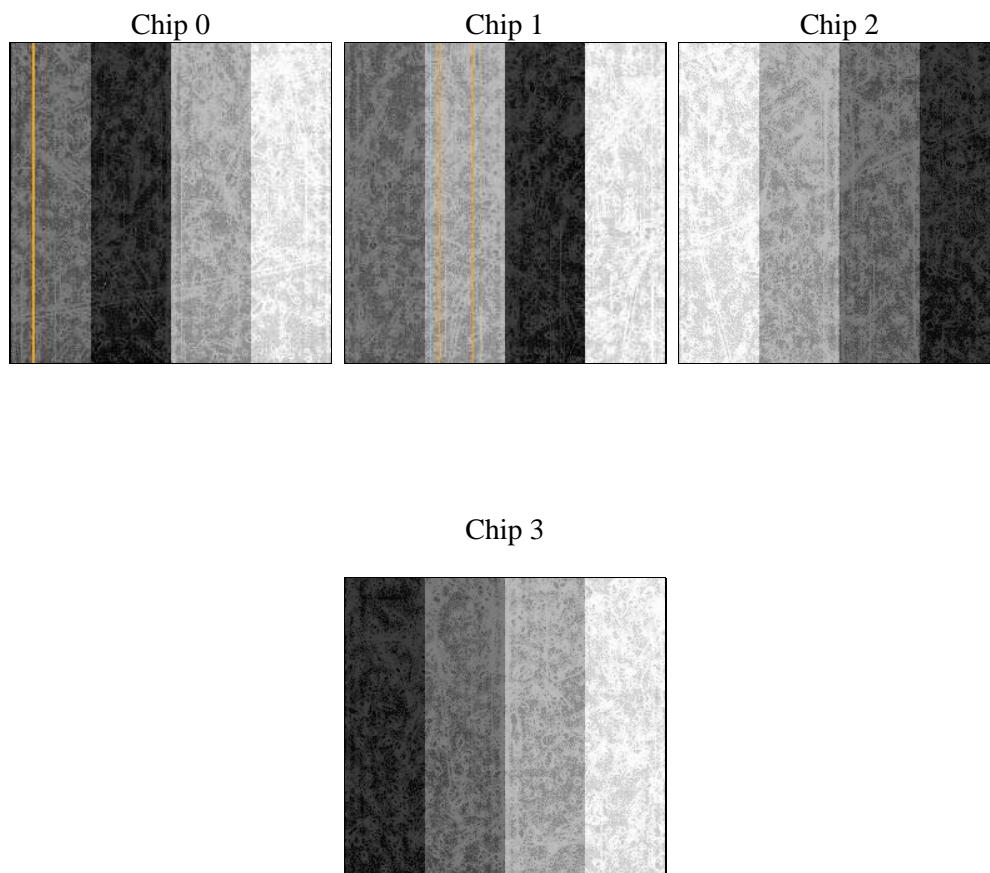
2 OBI

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	1908.5577100515	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.5166701078	Sum of GTIs [s]
date	2019-07-29T04:44:15	Date and time of file creation	ontime1	1908.5577100515	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.5987501144	Sum of GTIs [s]
			ontime3	1908.6397900581	Sum of GTIs [s]
			l1events	56658	Number of level 1 events

2.1.4 Events

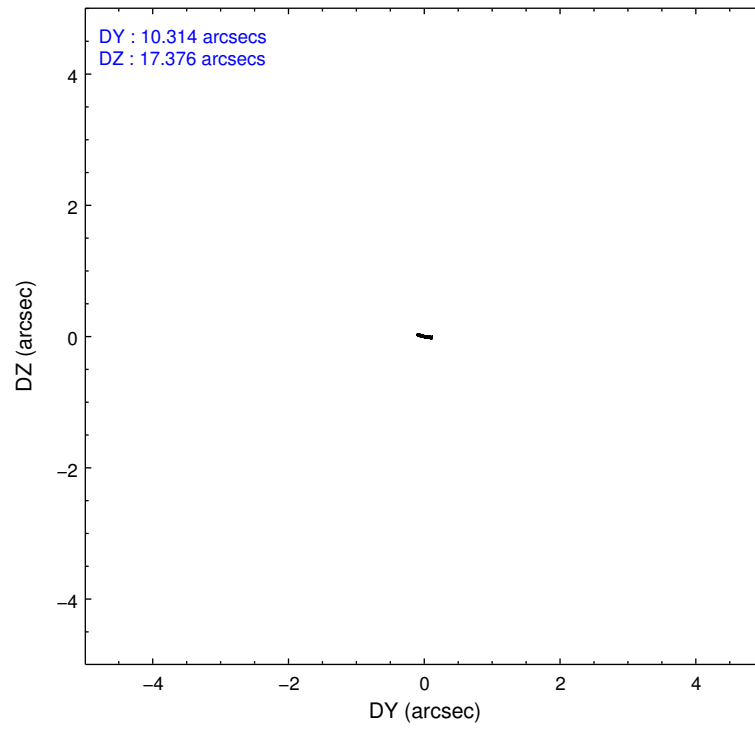
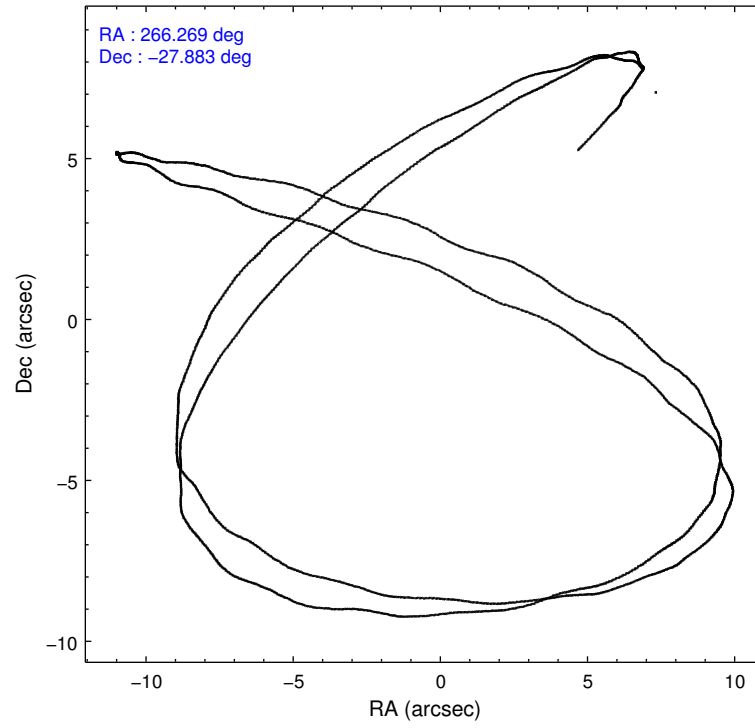
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13256	14617	14326	14459
rejected events	11510	12646	12542	12833
rejected %	86%	86%	87%	88%

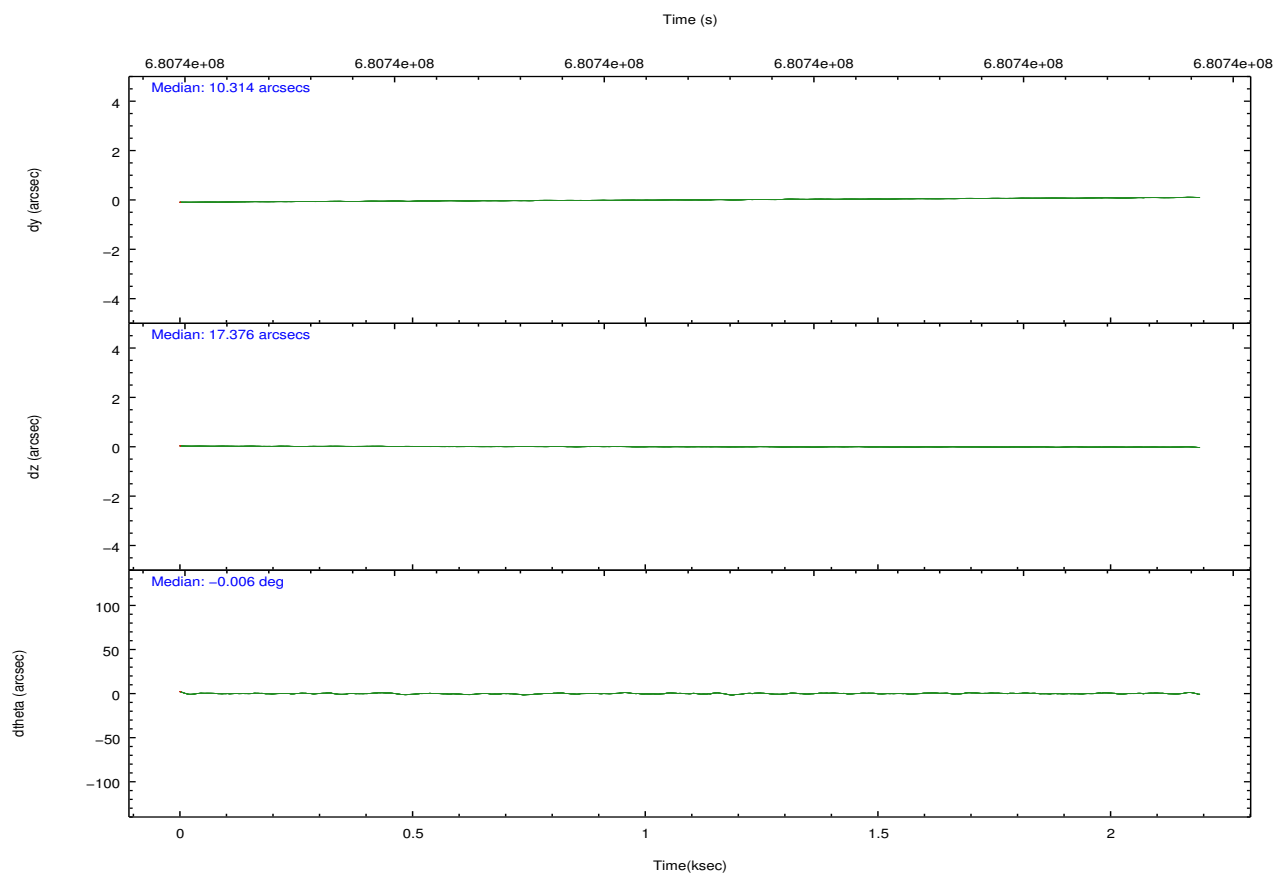
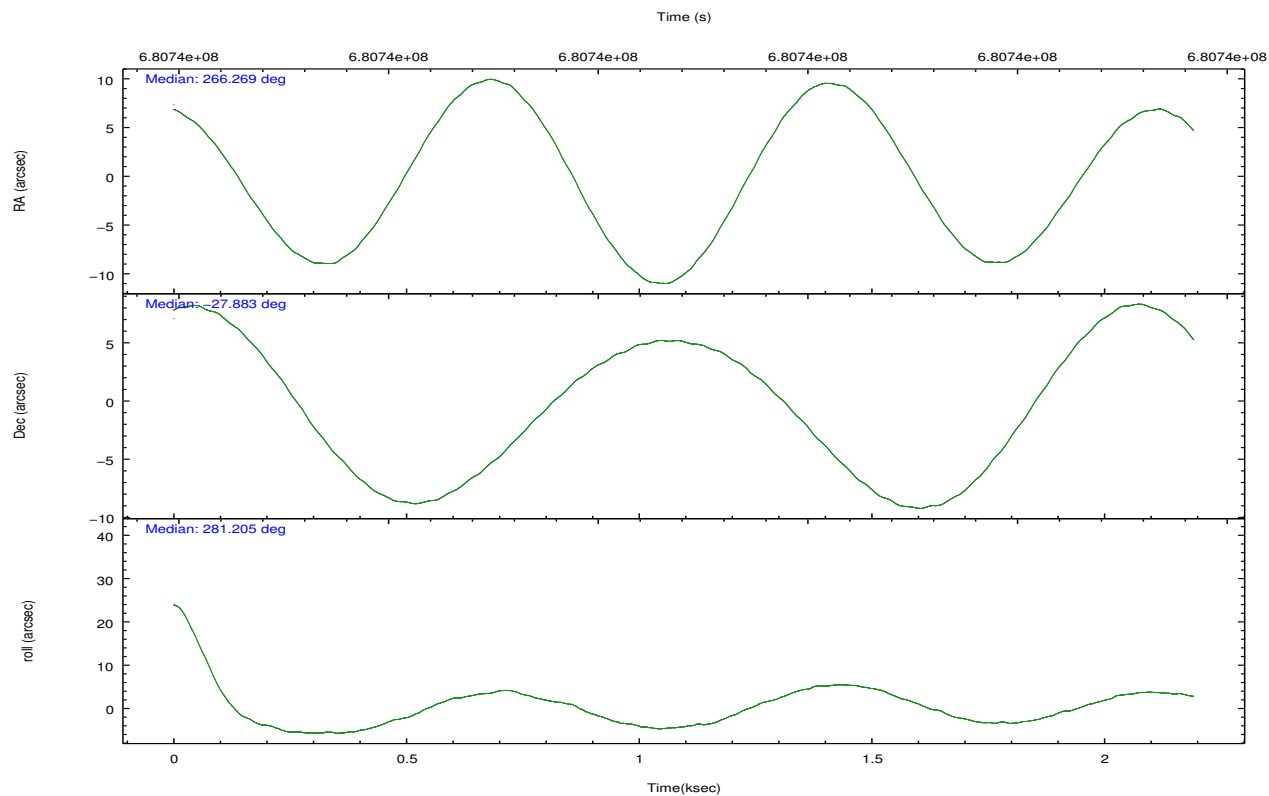
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	663	702	675	624
	5%	4%	4%	4%
grade 1 events	7	10	13	14
	0%	0%	0%	0%
grade 2 events	425	532	408	366
	3%	3%	2%	2%
grade 3 events	162	163	176	132
	1%	1%	1%	0%
grade 4 events	170	171	174	162
	1%	1%	1%	1%
grade 5 events	655	643	537	645
	4%	4%	3%	4%
grade 6 events	332	408	352	342
	2%	2%	2%	2%
grade 7 events	10842	11988	11991	12174
	81%	82%	83%	84%

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	266.247978	266.2687271952837	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.862357	-27.88285539813591	Alternating exposures requested	N	N
[deg] Pointing Roll	280.996897	281.2154085460376	[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)	680735817.184000	680735441.0052			
Observation start date	2019-07-28T21:15:48	2019-07-28T21:10:41			
[s] Observation end time (MET)	680737817.184000	680737950.71785			
Observation end date	2019-07-28T21:49:08	2019-07-28T21:52:30			
Read mode	TIMED	TIMED			

2.3 Aspect



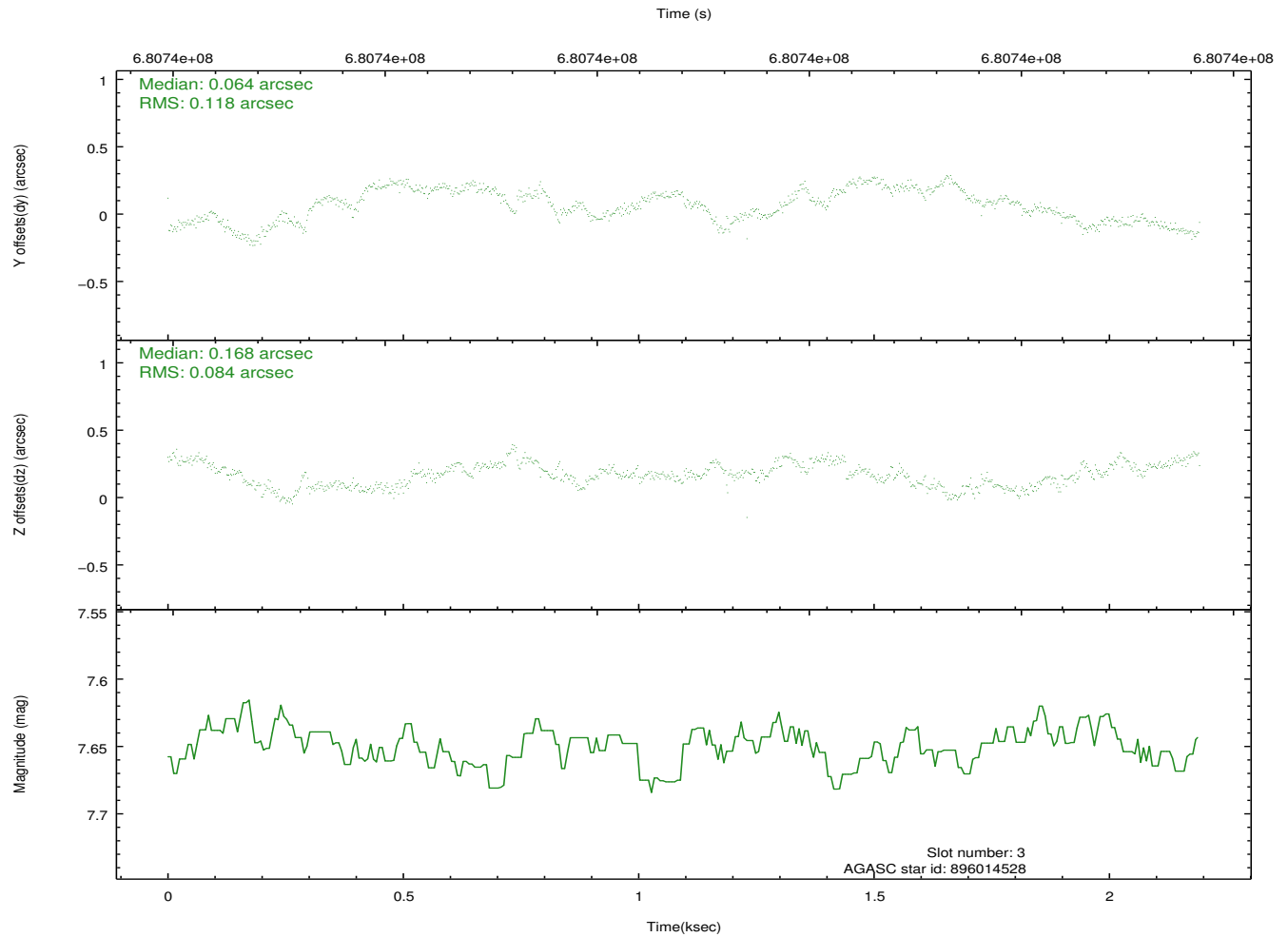
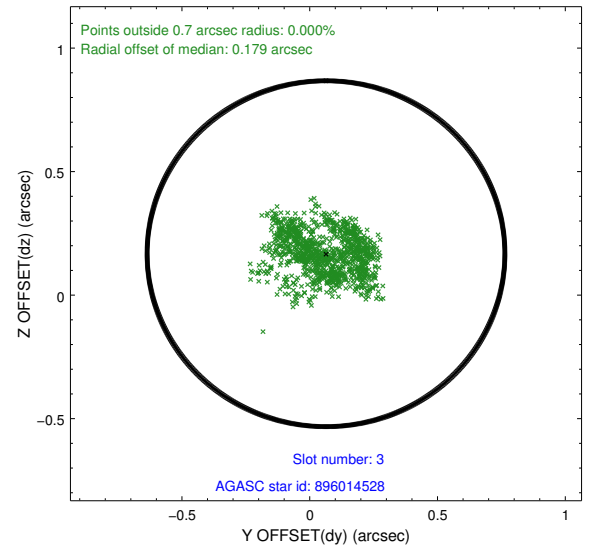
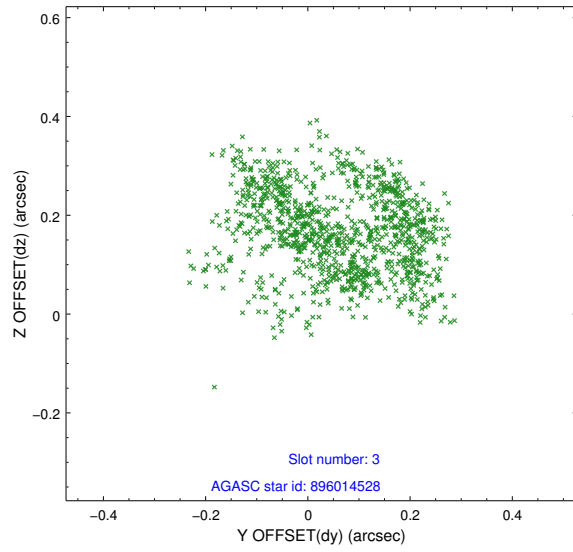


Slot Statistics

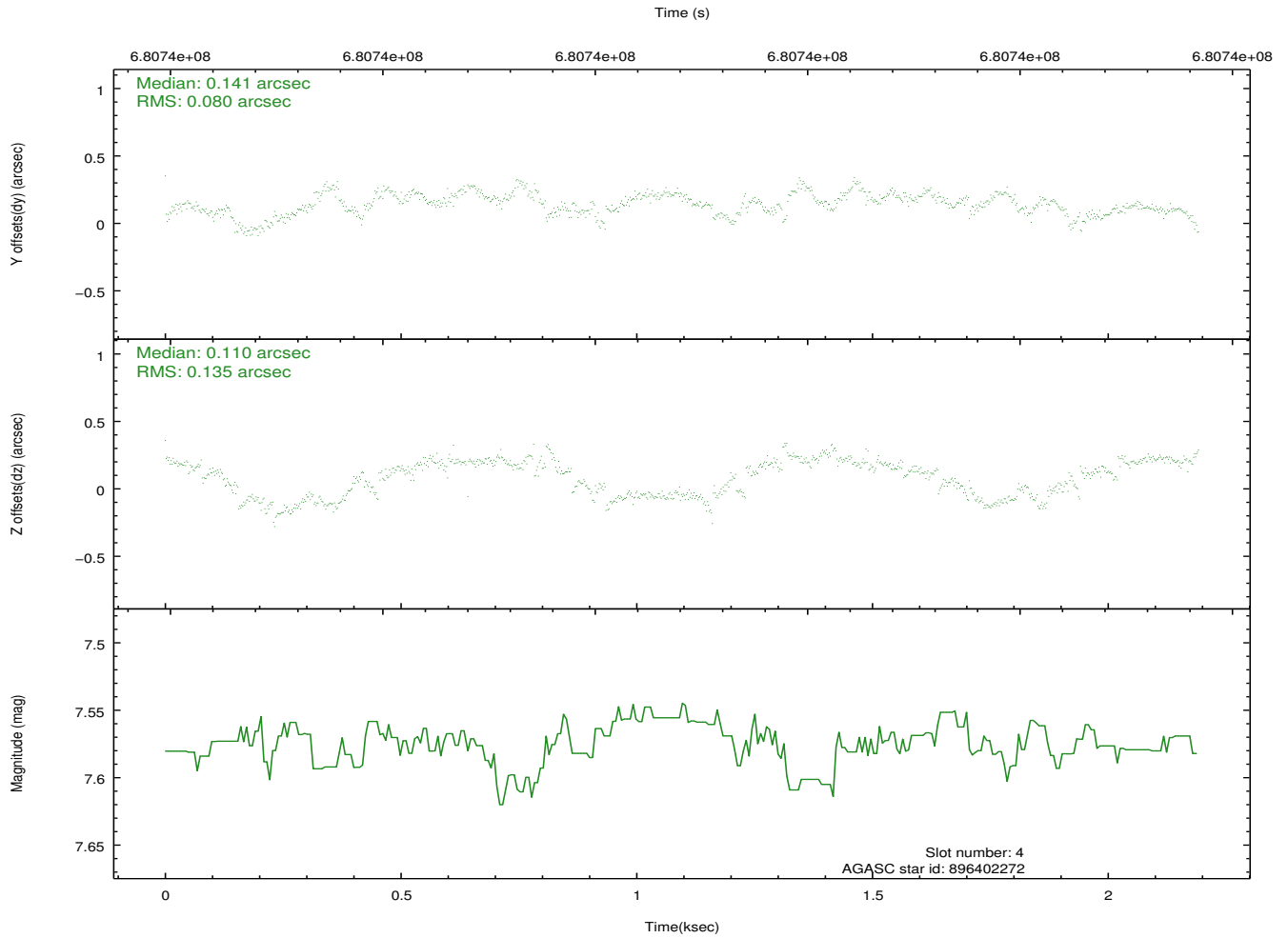
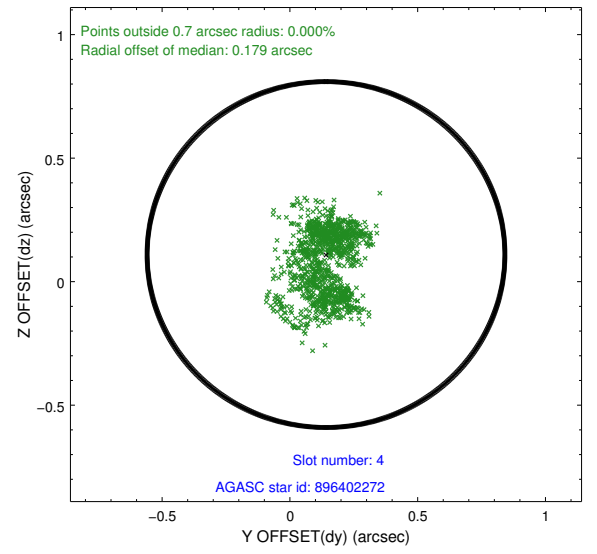
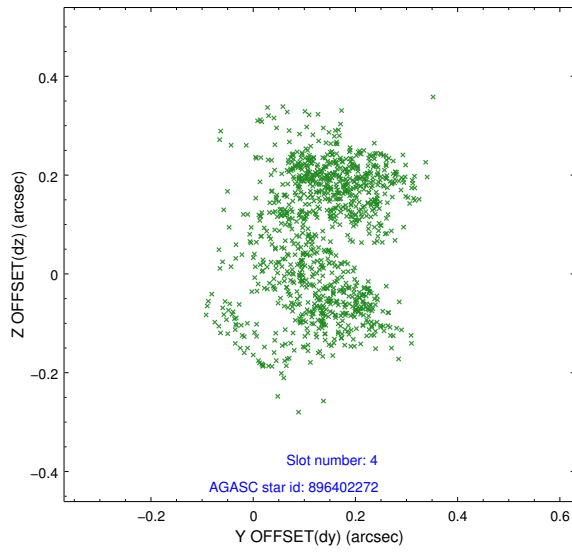
	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		ACIS-I-1	7.25	535	1.000	0.128	-0.117	0.007	0.012	0.000000	0.000000	929.46	-8
	FID		ACIS-I-5	7.23	534	1.000	-0.463	0.046	0.006	0.013	0.000000	0.000000	-1817.73	10
	FID		ACIS-I-6	7.22	535	1.000	0.244	0.142	0.007	0.012	0.000000	0.000000	391.70	17
	GUIDE	used	896014528	7.65	1070	1.000	0.064	0.168	0.158	0.232	266.628858	-27.438607	-1262.77	14
	GUIDE	used	896402272	7.57	1069	1.000	0.141	0.110	0.168	0.270	265.637294	-28.313189	1229.11	-22
	GUIDE	used	896404568	7.86	1069	1.000	0.188	0.051	0.144	0.237	265.687293	-28.431080	1677.94	-21
	BAD	used	896534664	8.20	1002	1.000	-0.371	-0.382	0.087	0.150	266.405570	-28.407461	2025.28	1
	GUIDE	used	896538696	6.81	1069	1.000	-0.029	0.069	0.182	0.243	266.298470	-28.325572	1670.35	-1

2.4 Star Slots

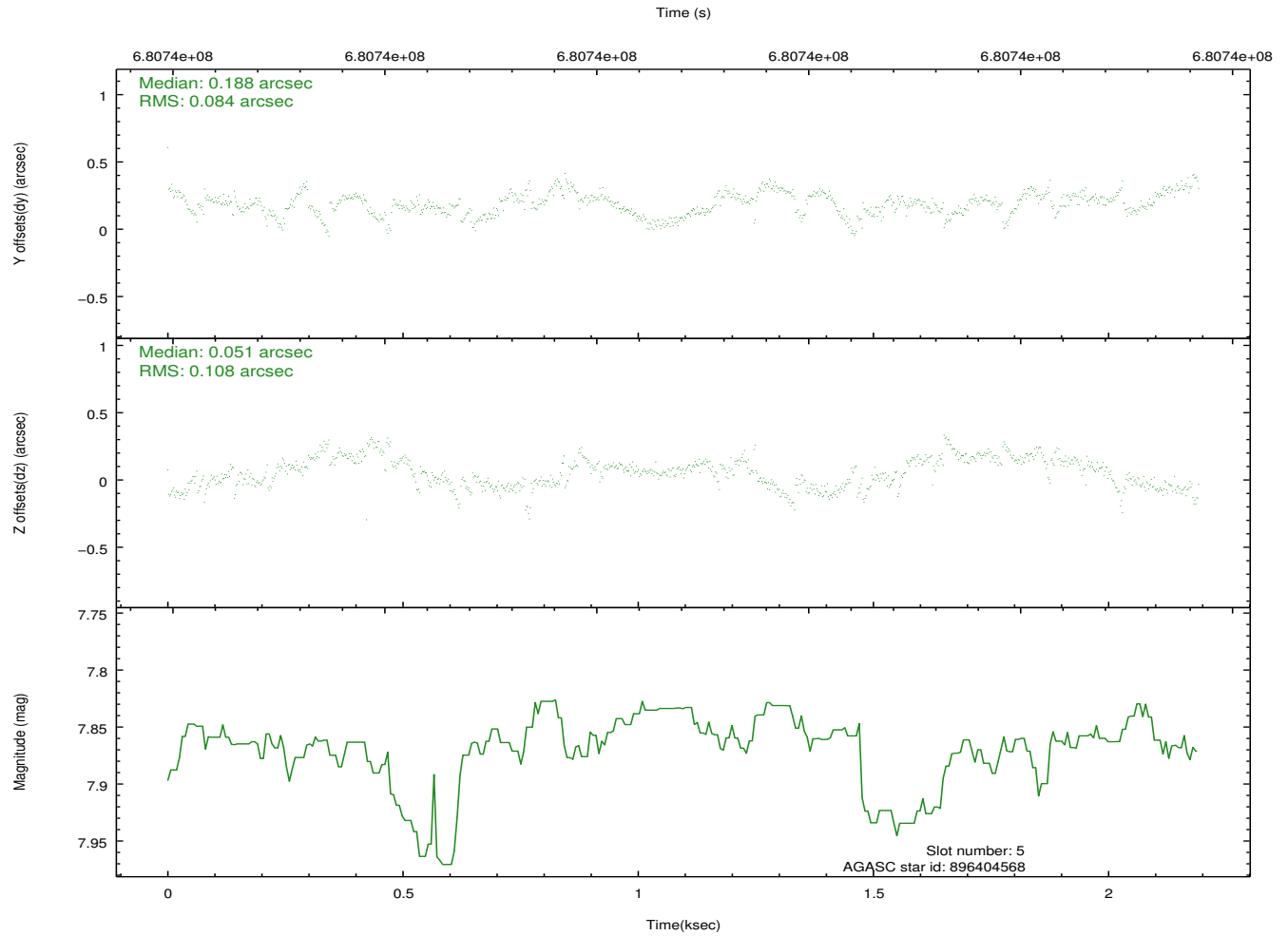
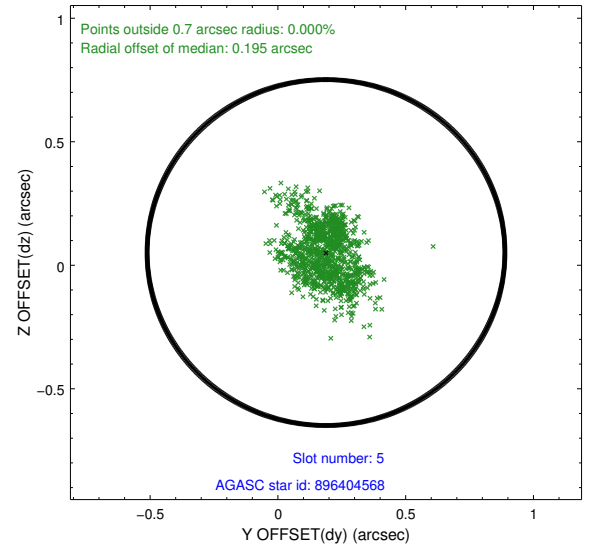
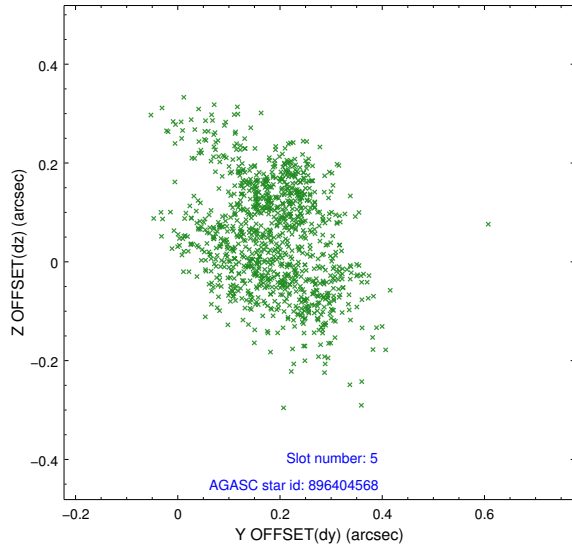
2.4.1 Slot 3



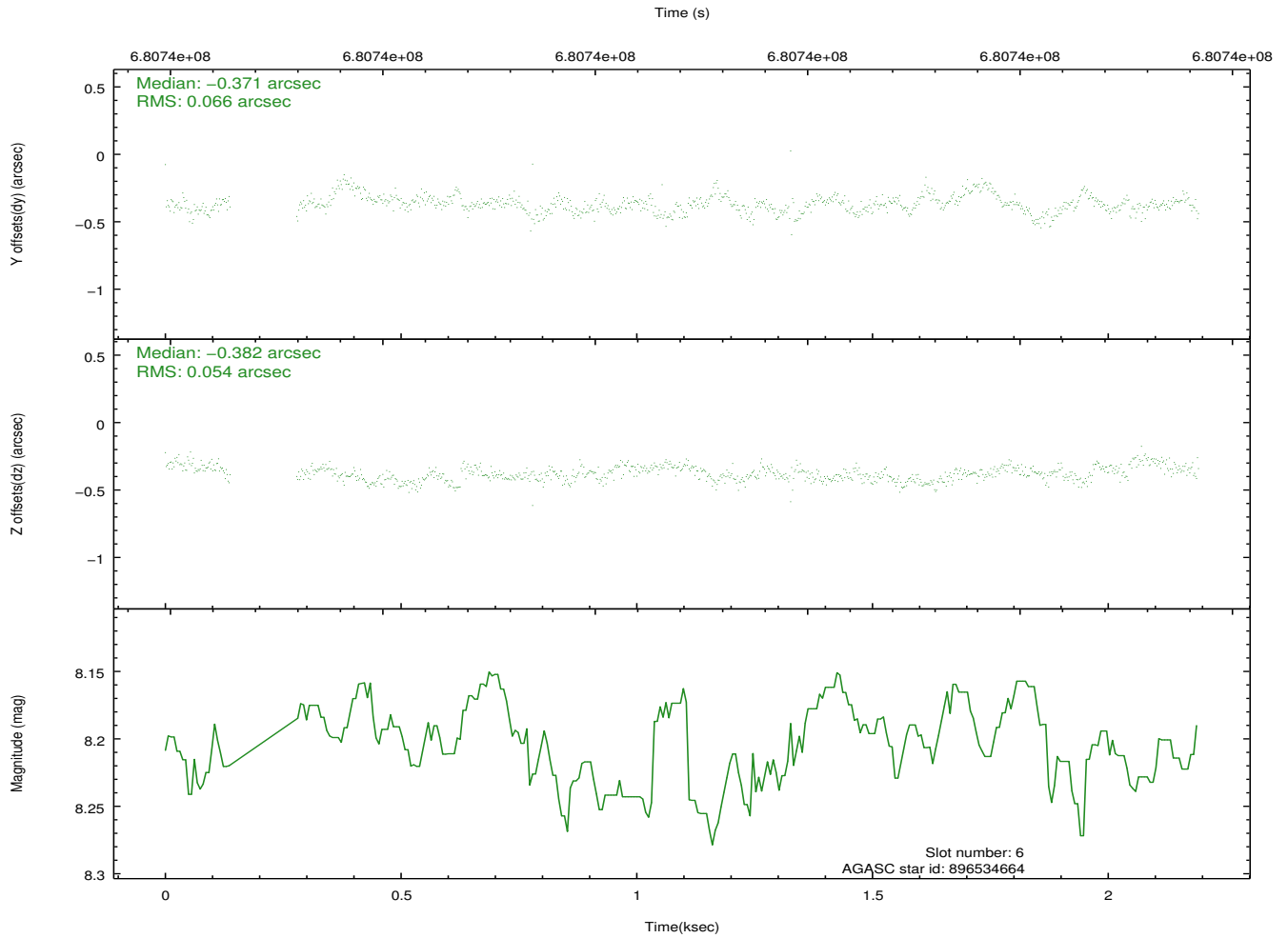
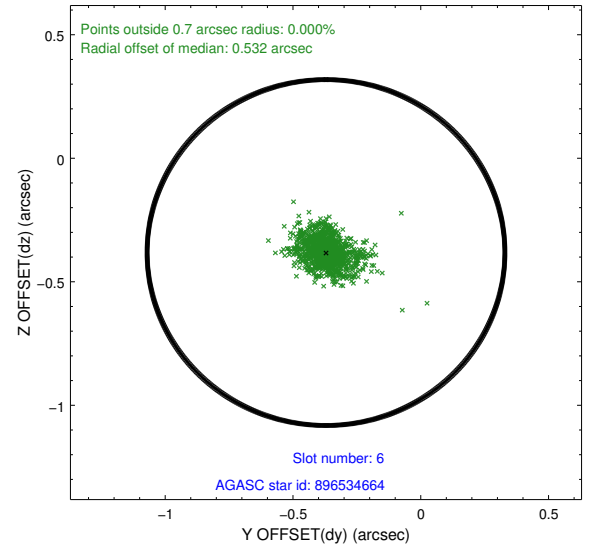
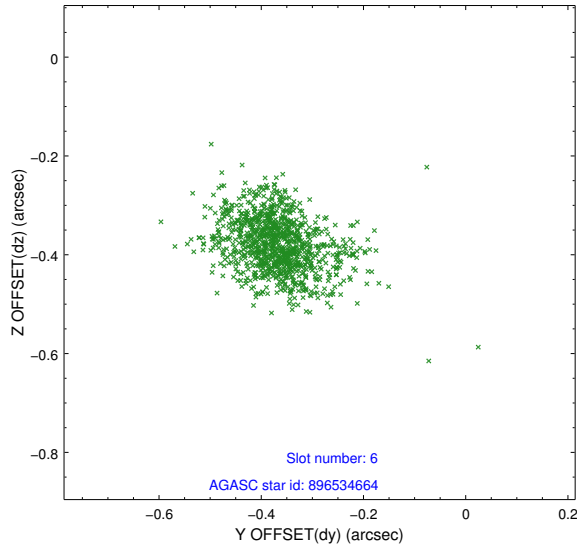
2.4.2 Slot 4



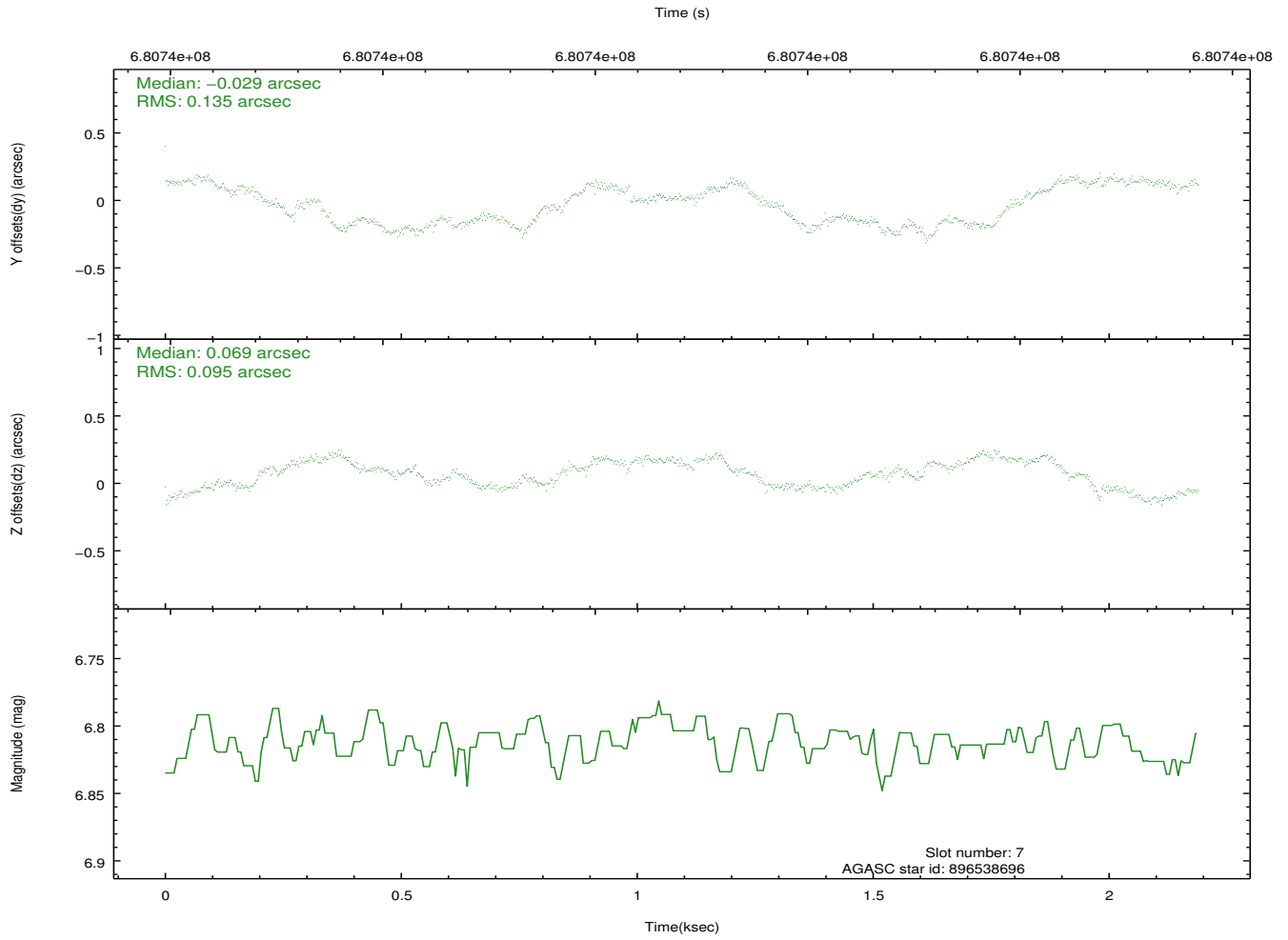
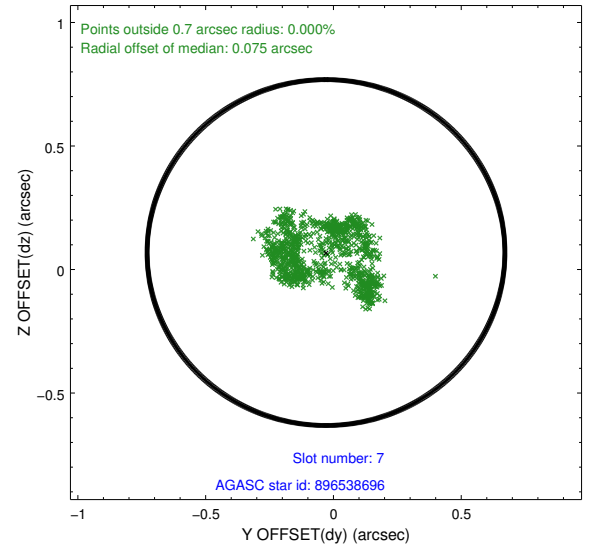
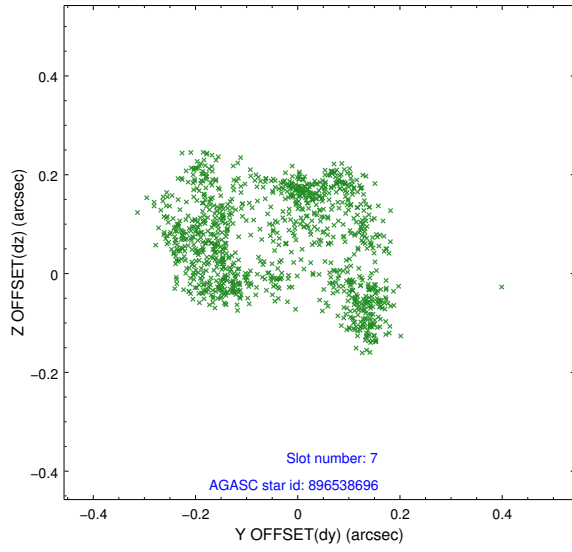
2.4.3 Slot 5



2.4.4 Slot 6

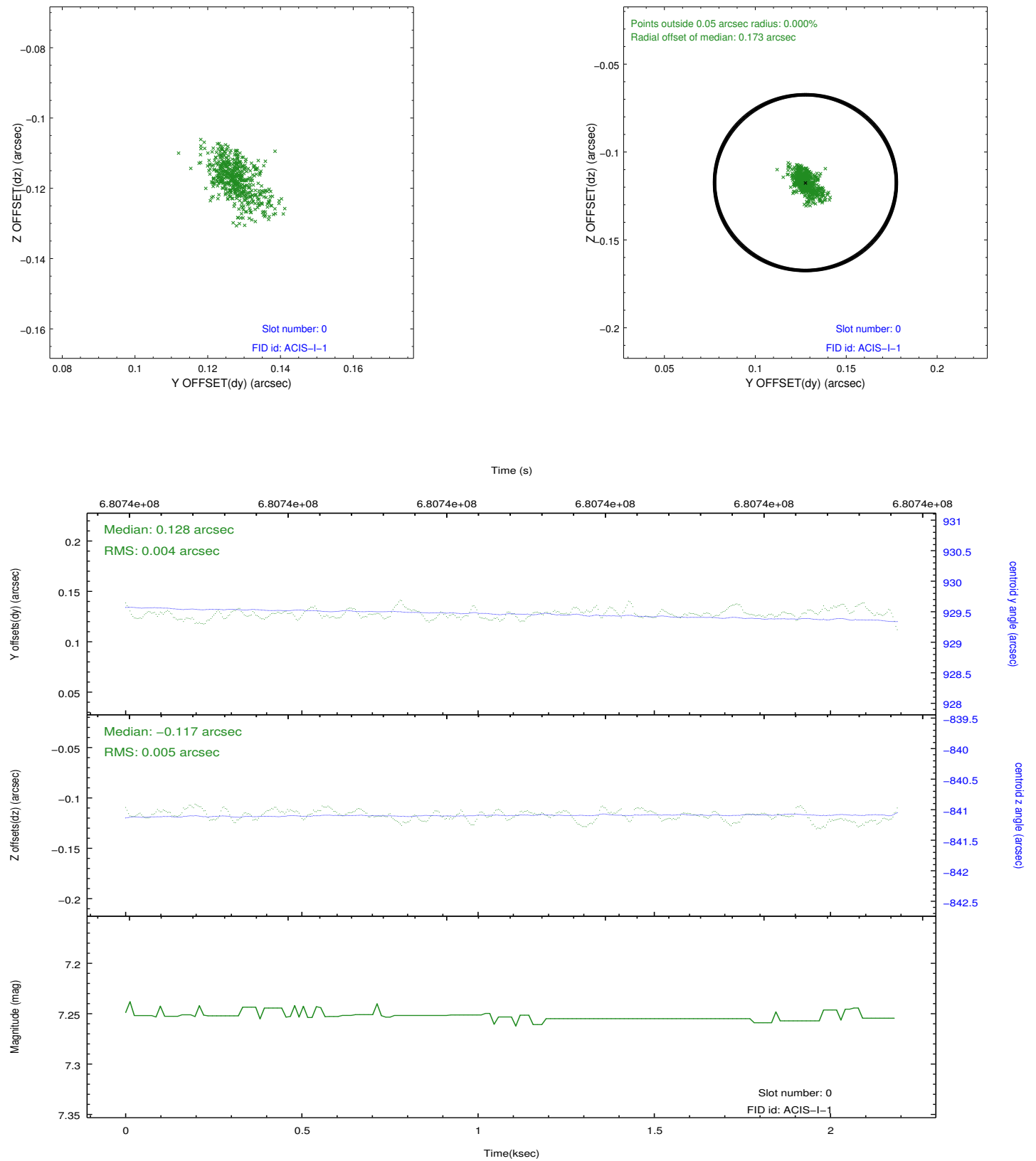


2.4.5 Slot 7

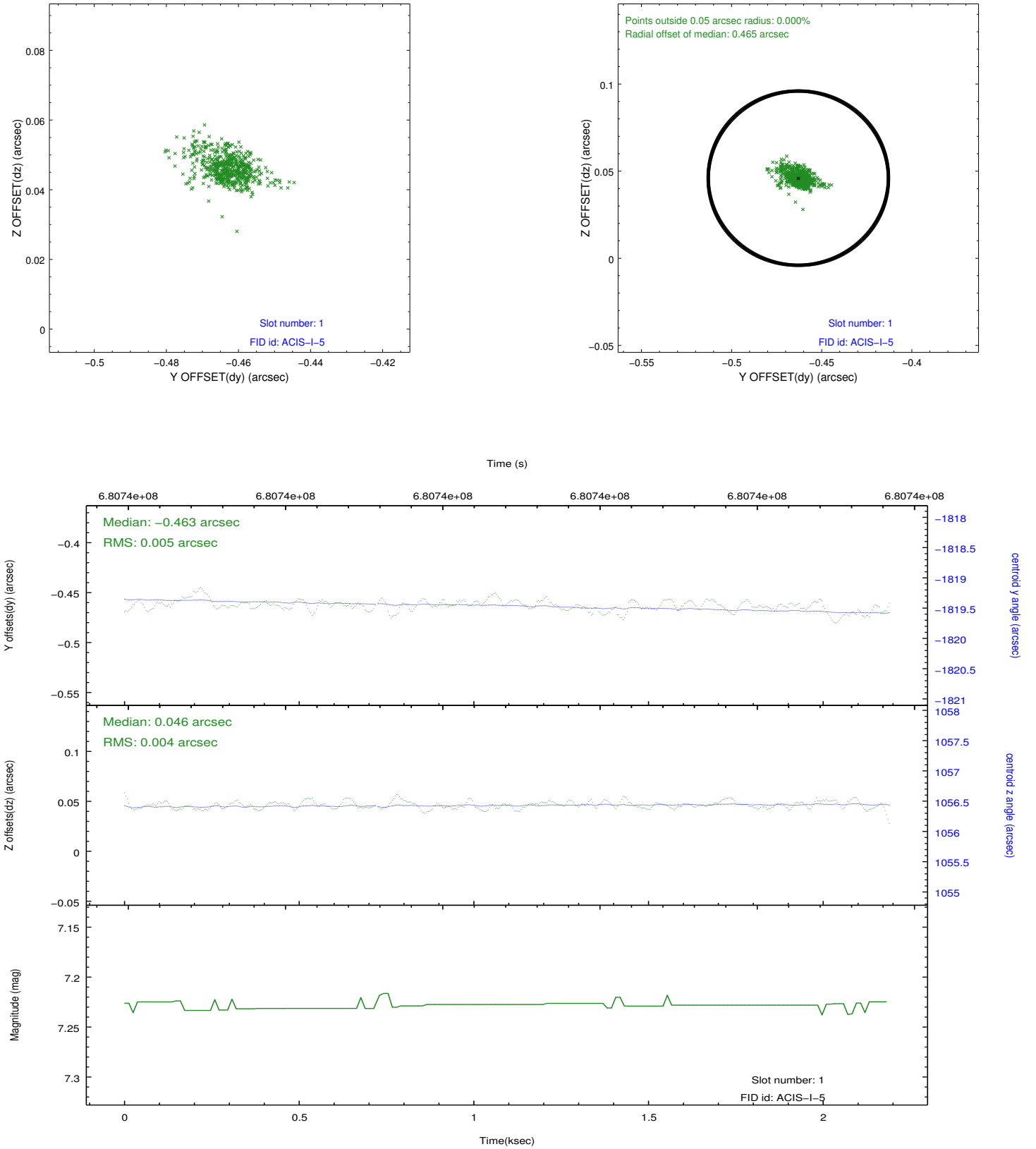


2.5 FID Slots

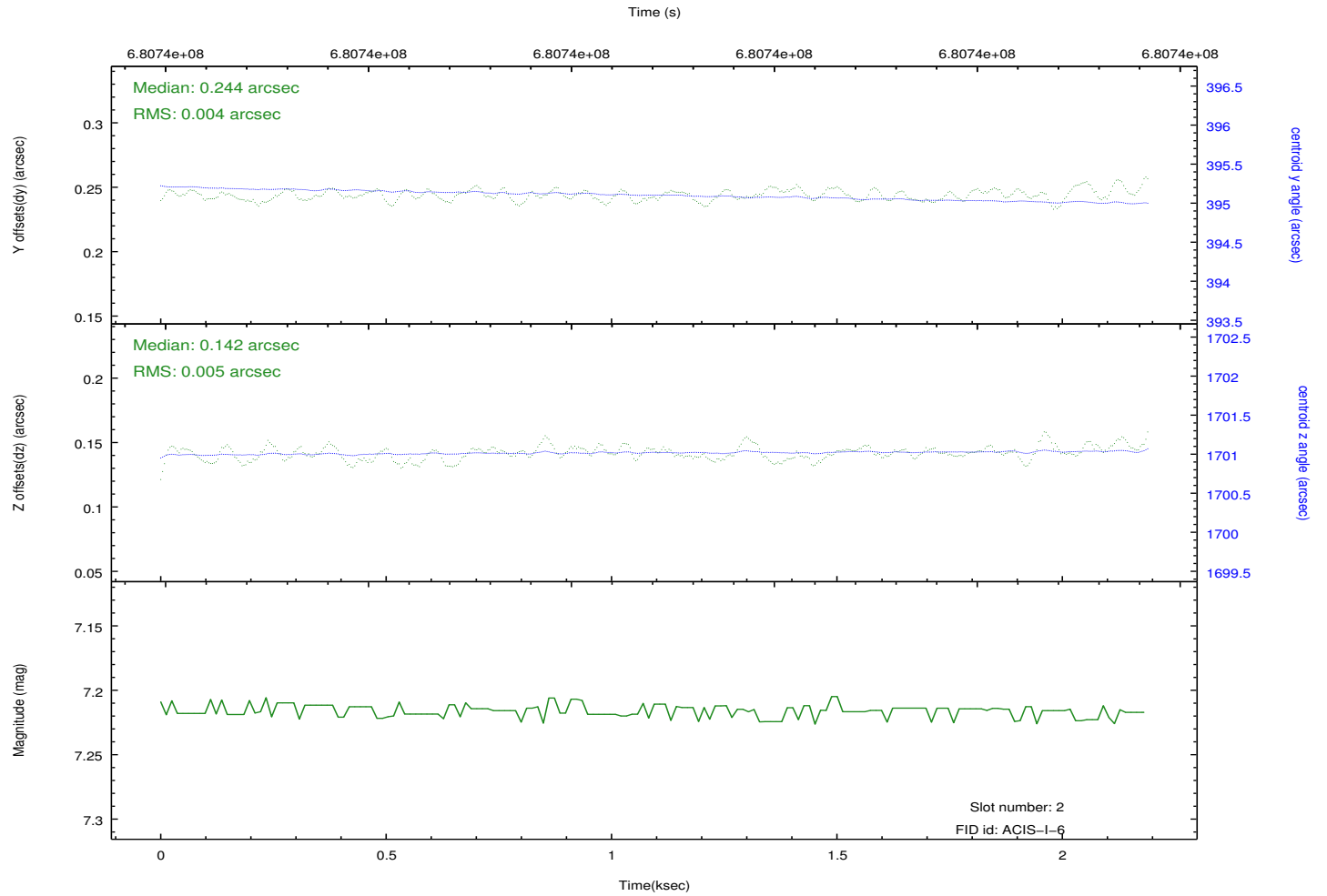
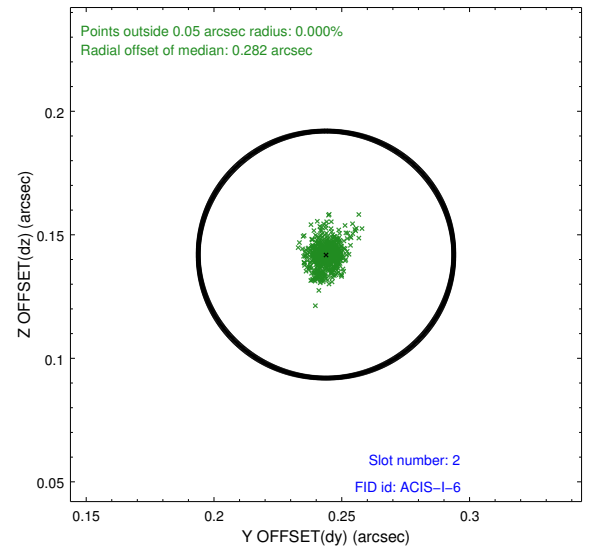
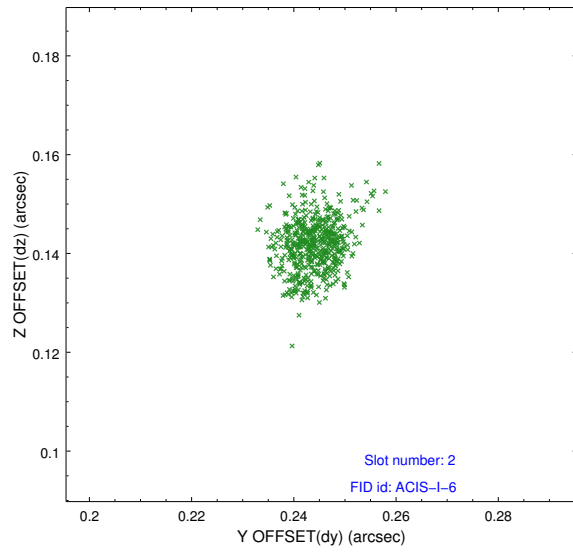
2.5.1 Slot 0



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	1.9085577100515

A.2 Comments