

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21606 - L2 Version 1
Chandra X-Ray Center

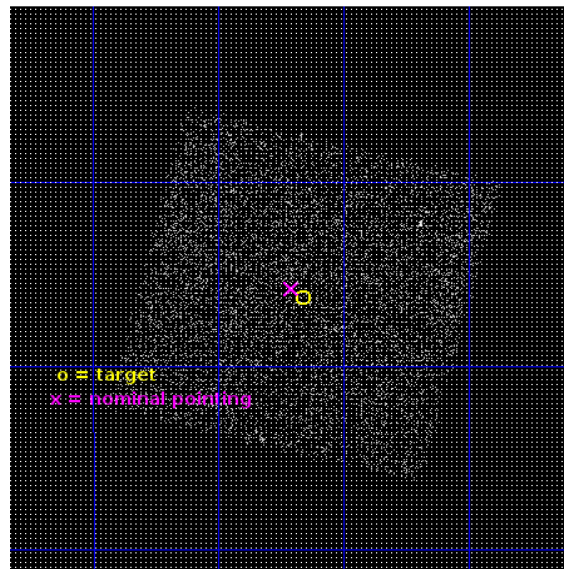
L2 Processing Date : Jul 8 2019

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

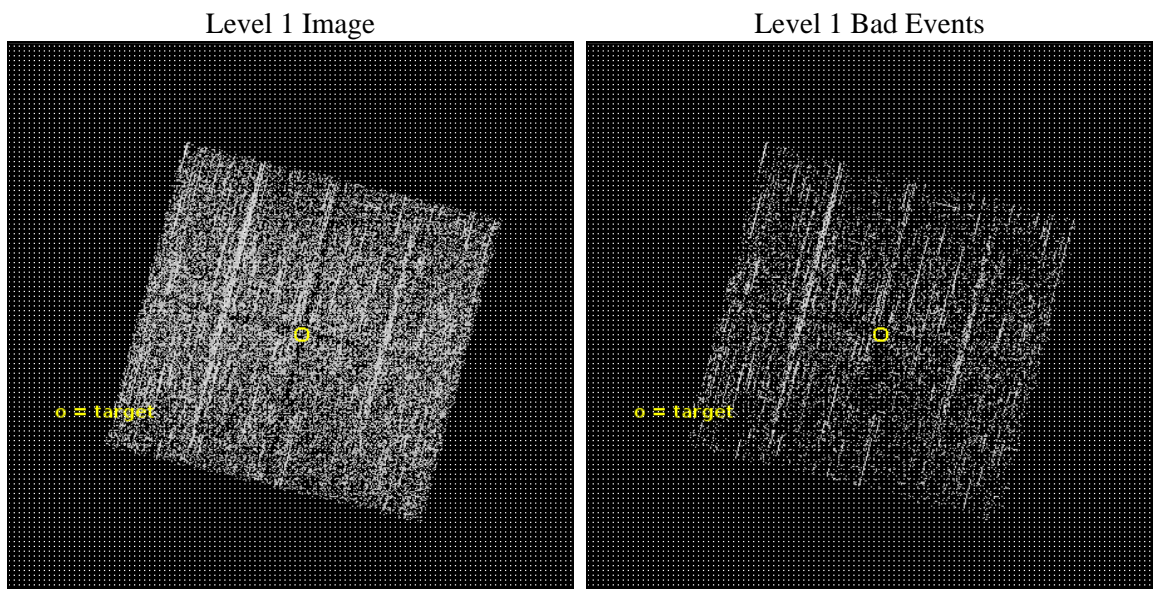
seq_num	300438	Sequence number
obs_id	21606	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.78962	Observer's specified target RA [deg]
dec_targ	-29.104737	Observer's specified target Dec [deg]
ra_nom	265.80211867387	Nominal RA [deg]
dec_nom	-29.096619025899	Nominal Dec [deg]
roll_nom	284.21469244607	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.2397971153	Sum of GTIs [s]
livetime	1883.3072393403	Livetime [s]
ontime0	1908.1166774035	Sum of GTIs [s]
ontime1	1908.1577173471	Sum of GTIs [s]
ontime2	1908.19875741	Sum of GTIs [s]
ontime3	1908.2397971153	Sum of GTIs [s]
l2events	6641	Number of level 2 events



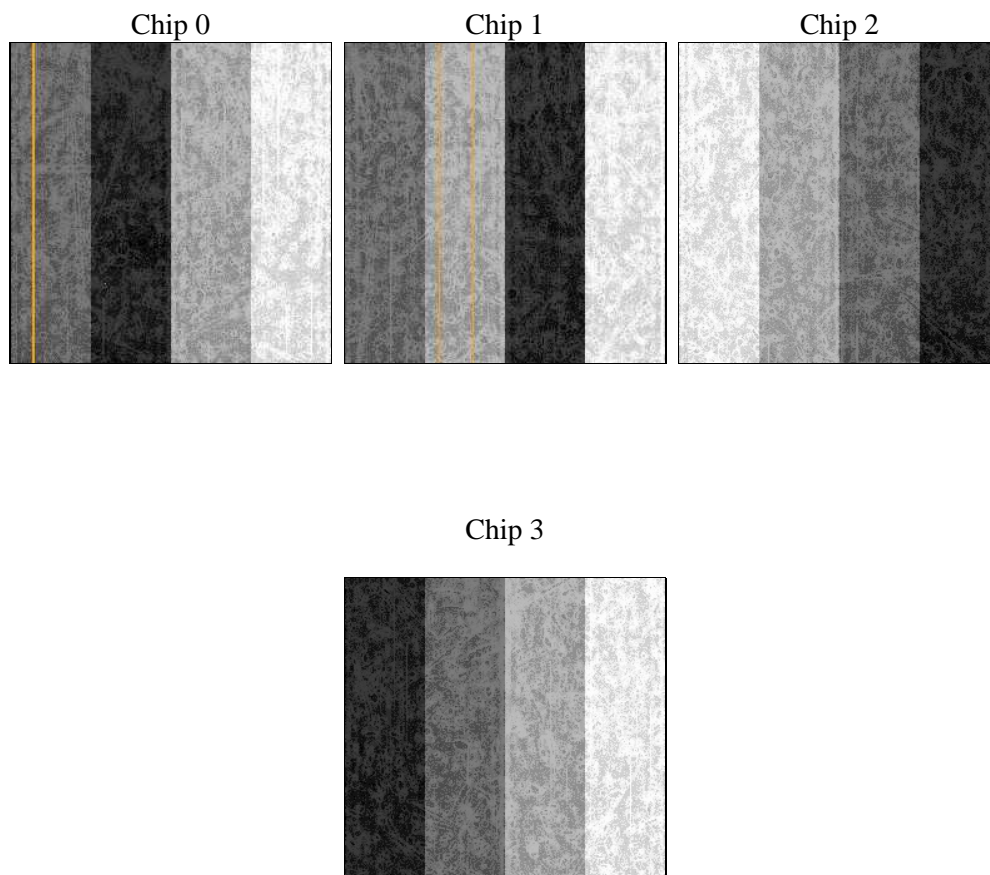
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.2397971153	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.1166774035	Sum of GTIs [s]
date	2019-07-08T11:12:45	Date and time of file creation	ontime1	1908.1577173471	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.19875741	Sum of GTIs [s]
			ontime3	1908.2397971153	Sum of GTIs [s]
			l1events	56374	Number of level 1 events

2.1.4 Events

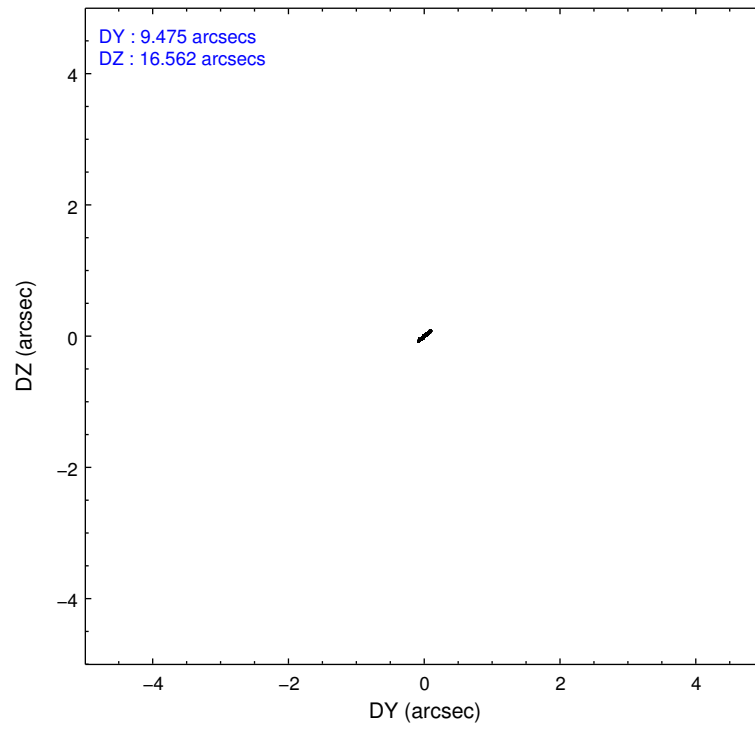
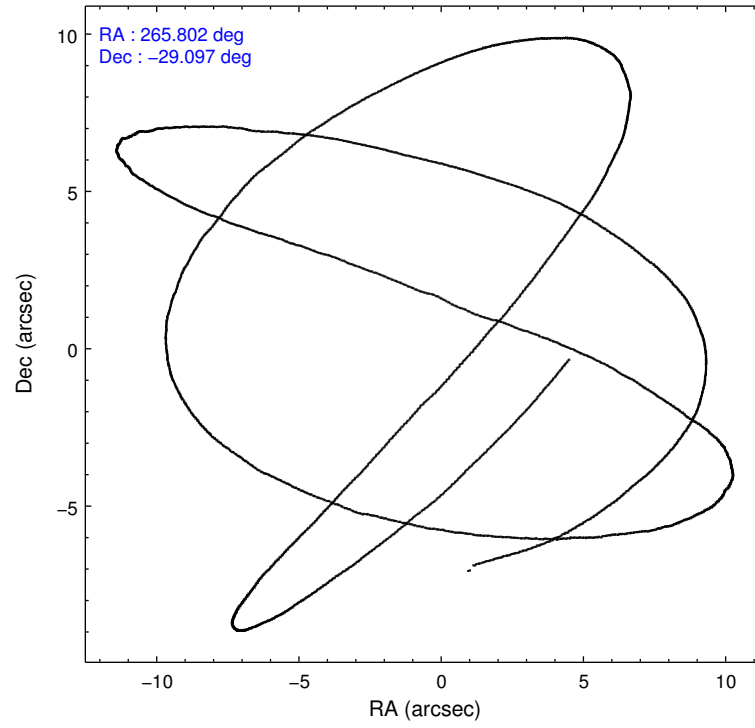
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	12095	14128	14478	15673
rejected events	10242	11955	12546	13788
rejected %	84%	84%	86%	87%

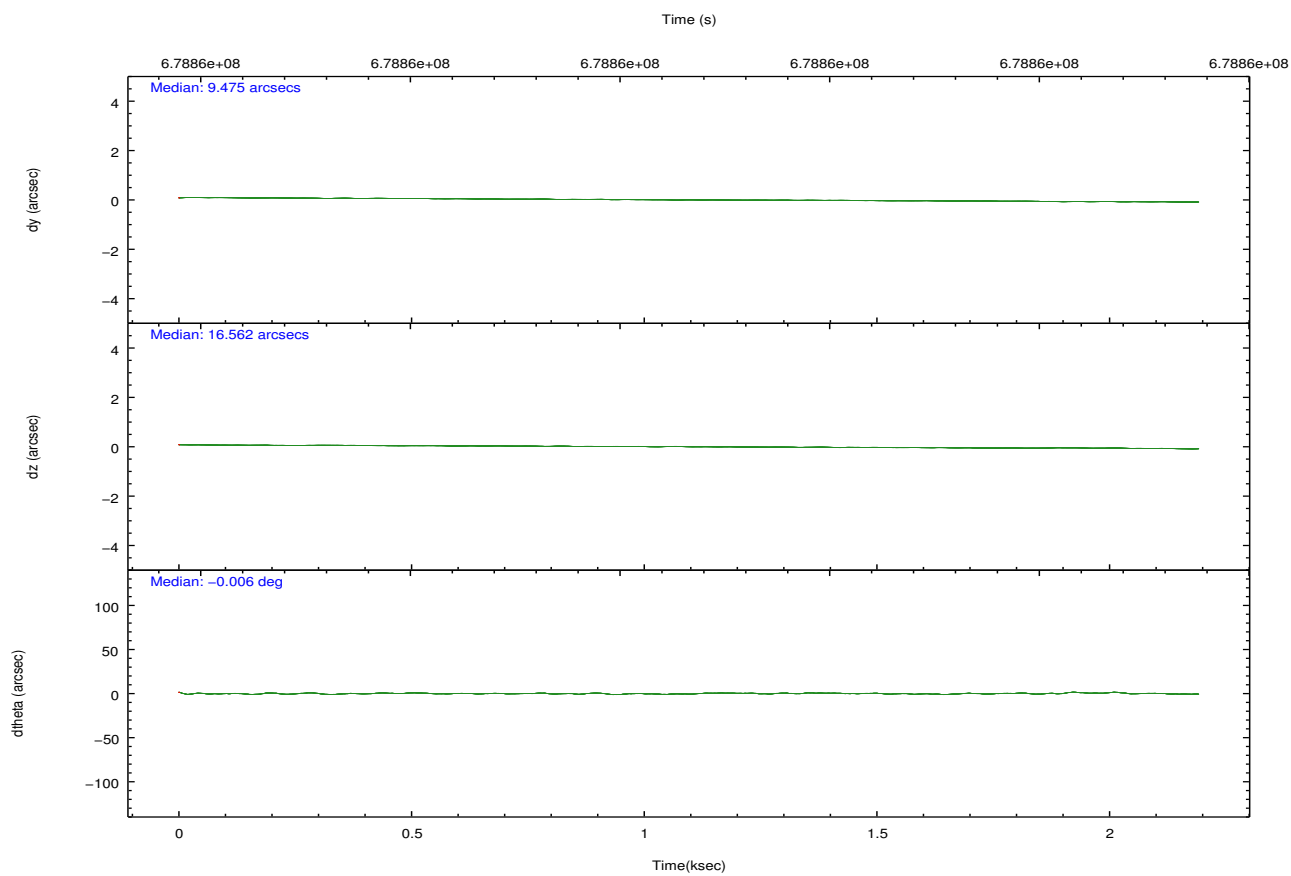
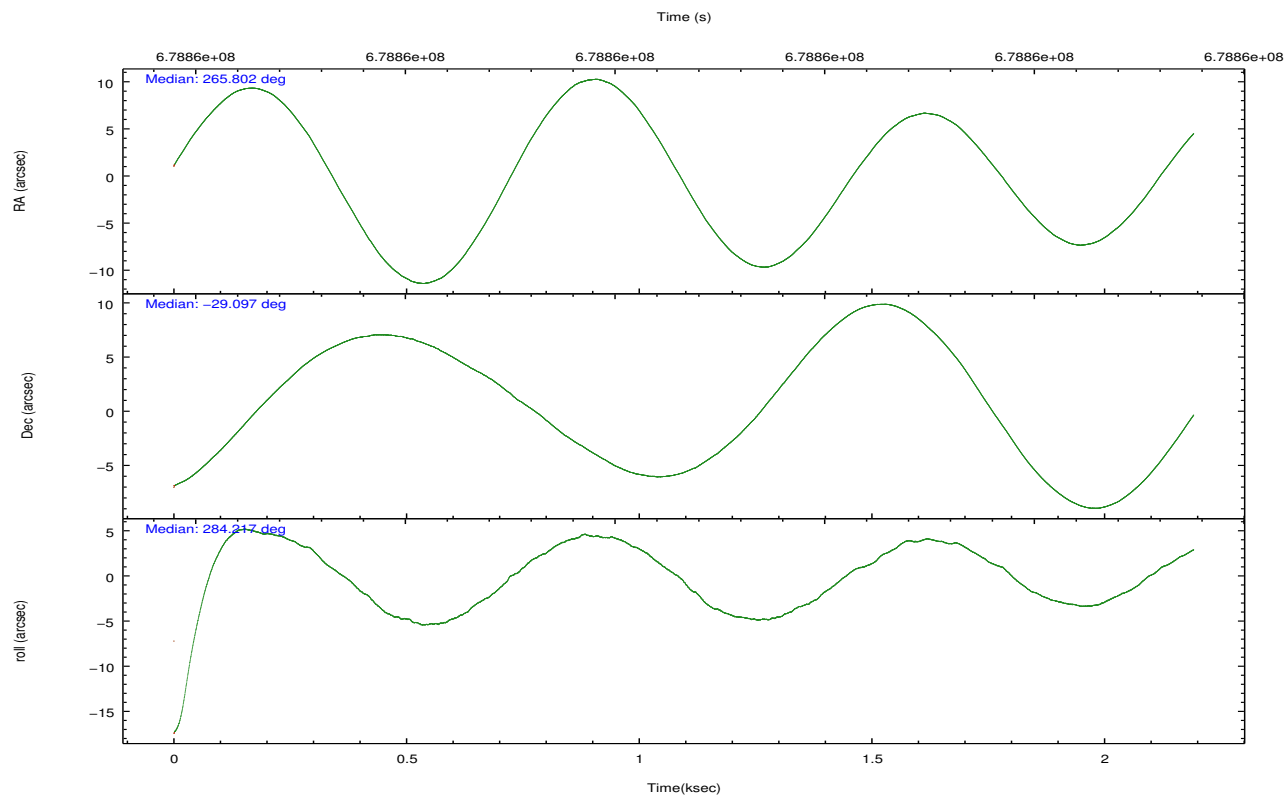
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	660	853	783	755
	5%	6%	5%	4%
grade 1 events	8	13	6	10
	0%	0%	0%	0%
grade 2 events	437	492	456	409
	3%	3%	3%	2%
grade 3 events	183	192	193	163
	1%	1%	1%	1%
grade 4 events	203	191	163	188
	1%	1%	1%	1%
grade 5 events	634	671	598	718
	5%	4%	4%	4%
grade 6 events	376	451	339	374
	3%	3%	2%	2%
grade 7 events	9594	11265	11940	13056
	79%	79%	82%	83%

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	265.779908	265.8021186738677	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.076782	-29.09661902589889	Alternating exposures requested	N	N
[deg] Pointing Roll	283.995285	284.2146924460747	[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)	678856765.184000	678856389.36735			
Observation start date	2019-07-07T03:18:16	2019-07-07T03:13:09			
[s] Observation end time (MET)	678858765.184000	678858899.5925			
Observation end date	2019-07-07T03:51:36	2019-07-07T03:54:59			
Read mode	TIMED	TIMED			

2.3 Aspect



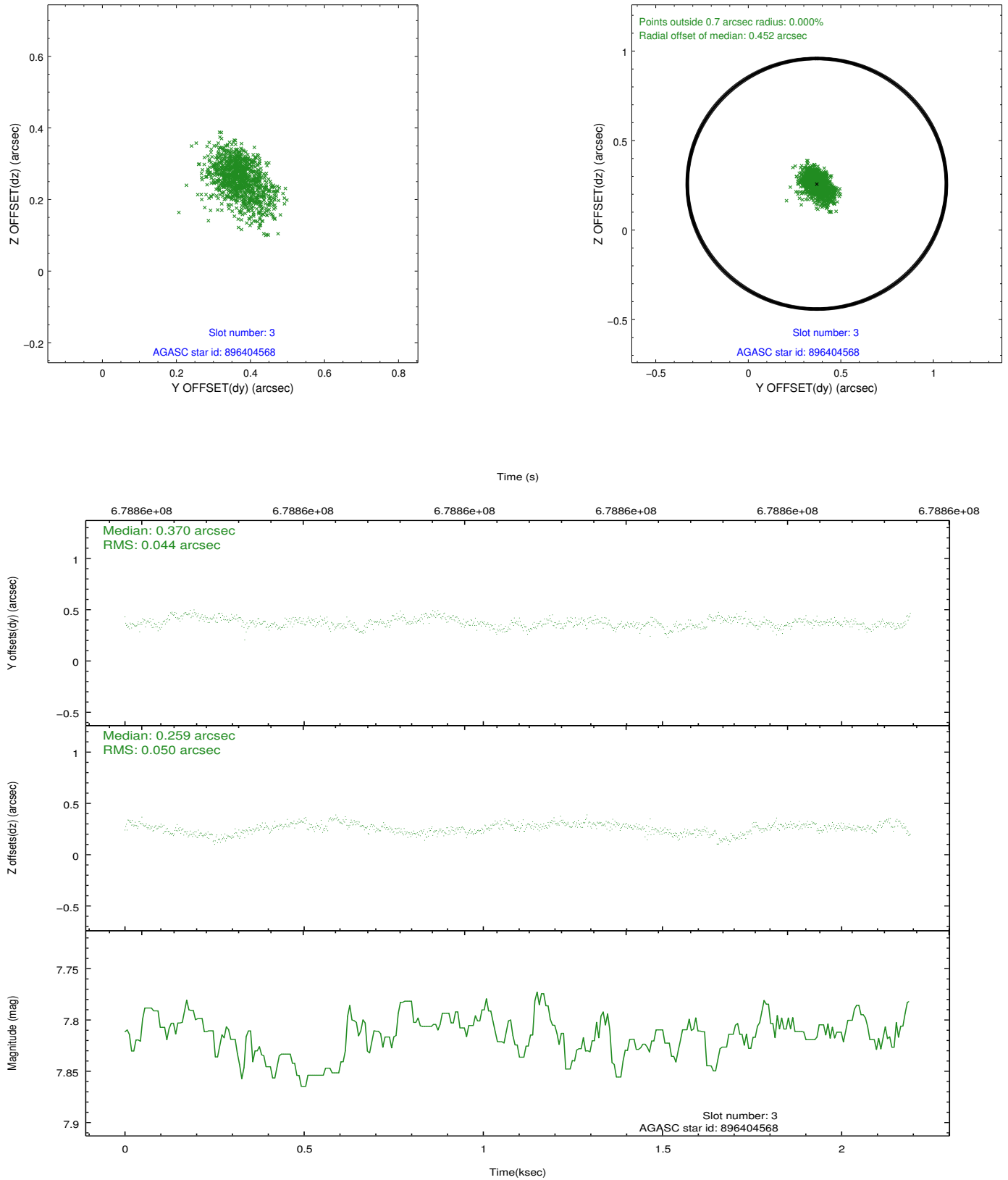


Slot Statistics

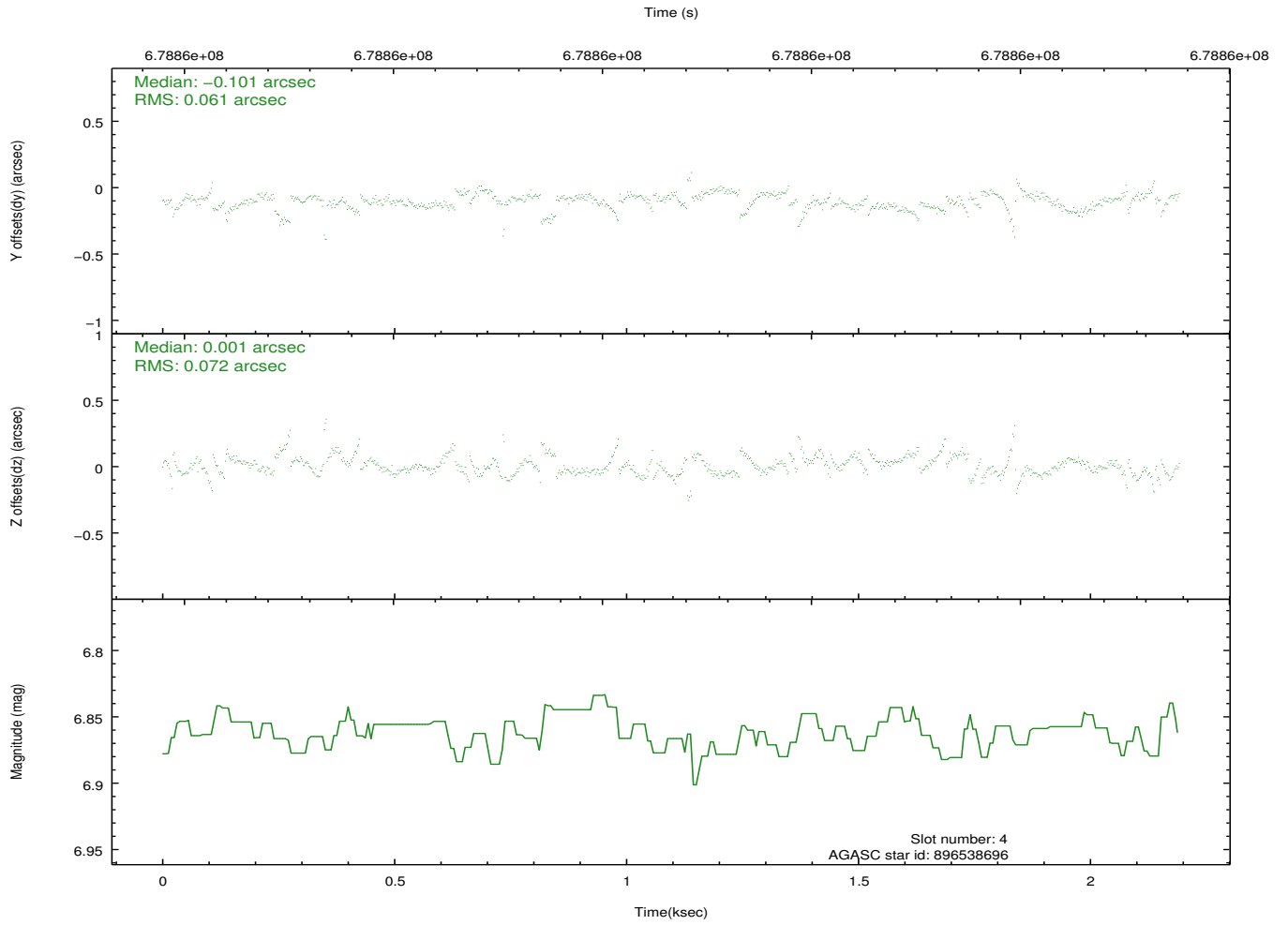
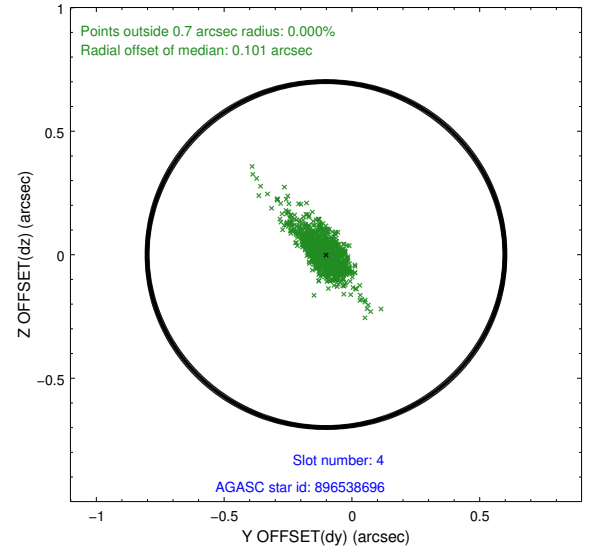
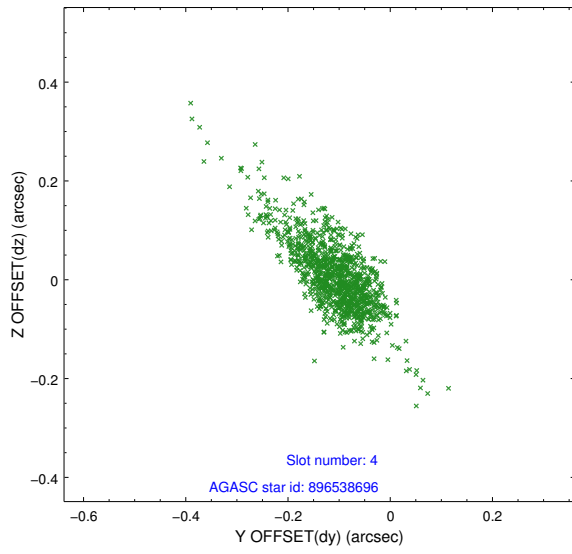
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.11	535	1.000	0.105	-0.140	0.008	0.013	0.000000	0.000000	930.29	-840
1	FID		ACIS-I-5	7.08	535	1.000	-0.442	0.021	0.007	0.014	0.000000	0.000000	-1816.84	1055
2	FID		ACIS-I-6	7.07	535	1.000	0.246	0.188	0.008	0.016	0.000000	0.000000	392.58	1703
3	GUIDE	used	896404568	7.81	1070	1.000	0.370	0.259	0.069	0.118	265.687293	-28.431080	-2326.60	277
4	GUIDE	used	896538696	6.86	1070	1.000	-0.101	0.001	0.084	0.186	266.298470	-28.325572	-2226.13	2247
5	GUIDE	used	896540808	7.47	1070	1.000	0.142	-0.021	0.073	0.117	265.985401	-29.308604	963.76	425
6	GUIDE	used	896533888	6.99	1070	1.000	-0.324	-0.260	0.080	0.127	266.666434	-29.392757	1786.65	2420
7	GUIDE	used	896541360	7.70	1069	1.000	-0.081	0.016	0.086	0.130	266.684478	-29.453744	2014.19	2422

2.4 Star Slots

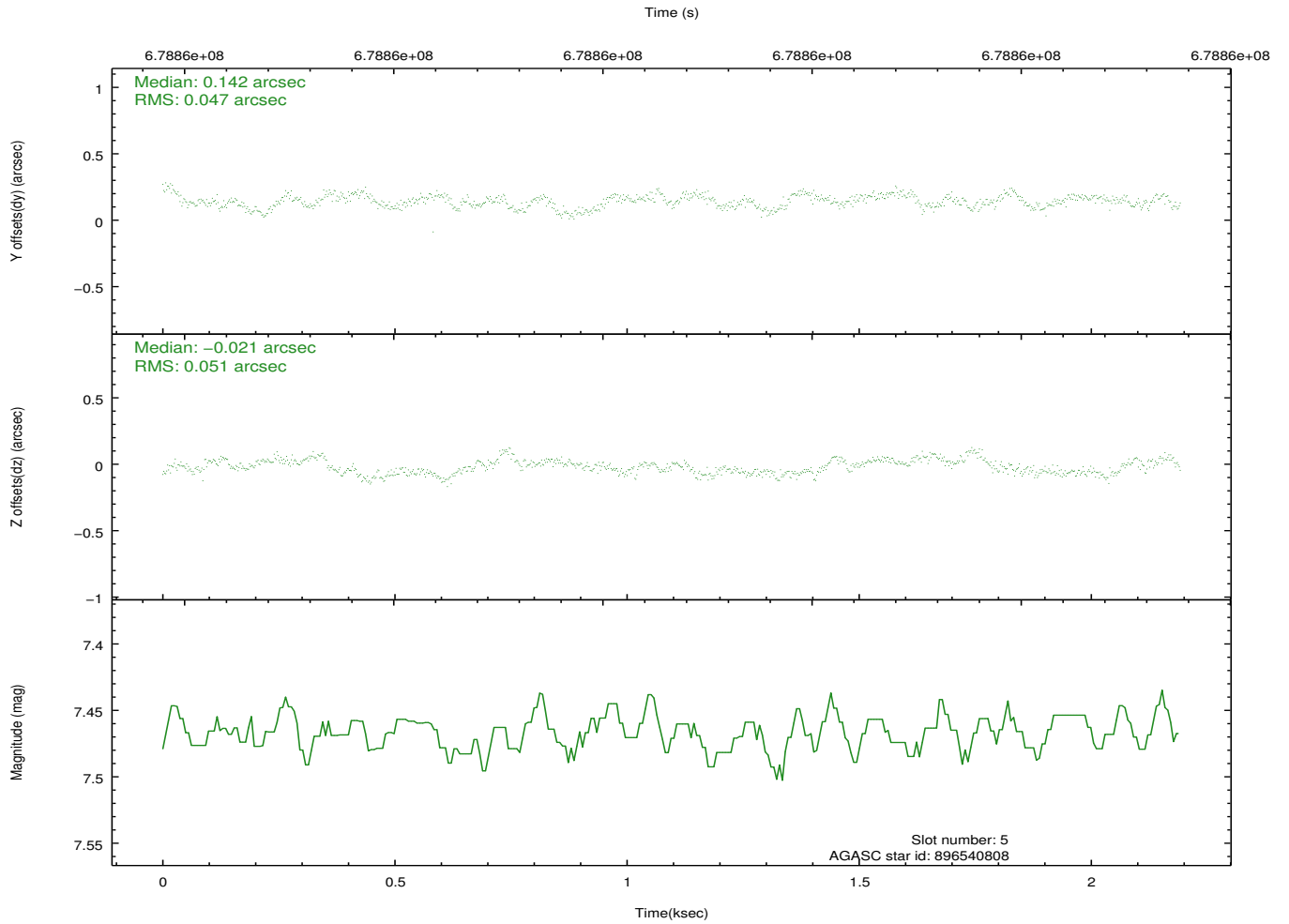
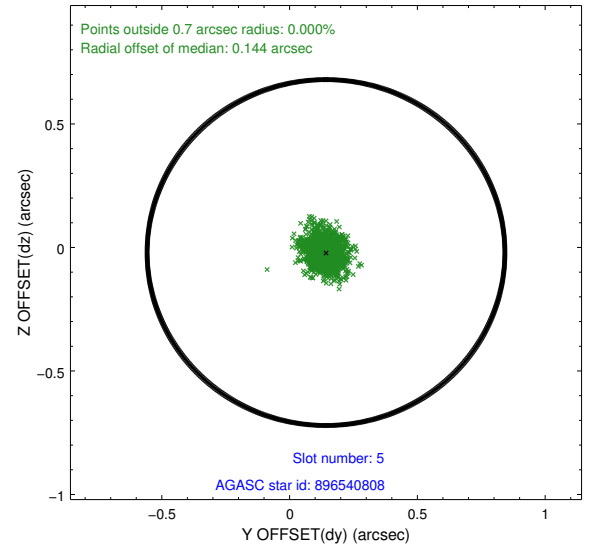
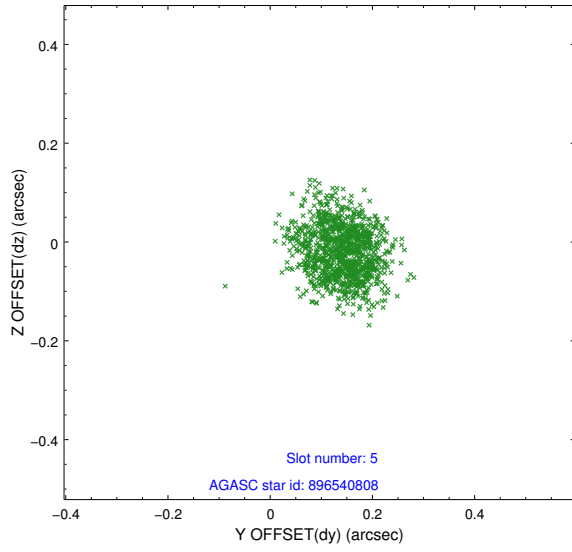
2.4.1 Slot 3



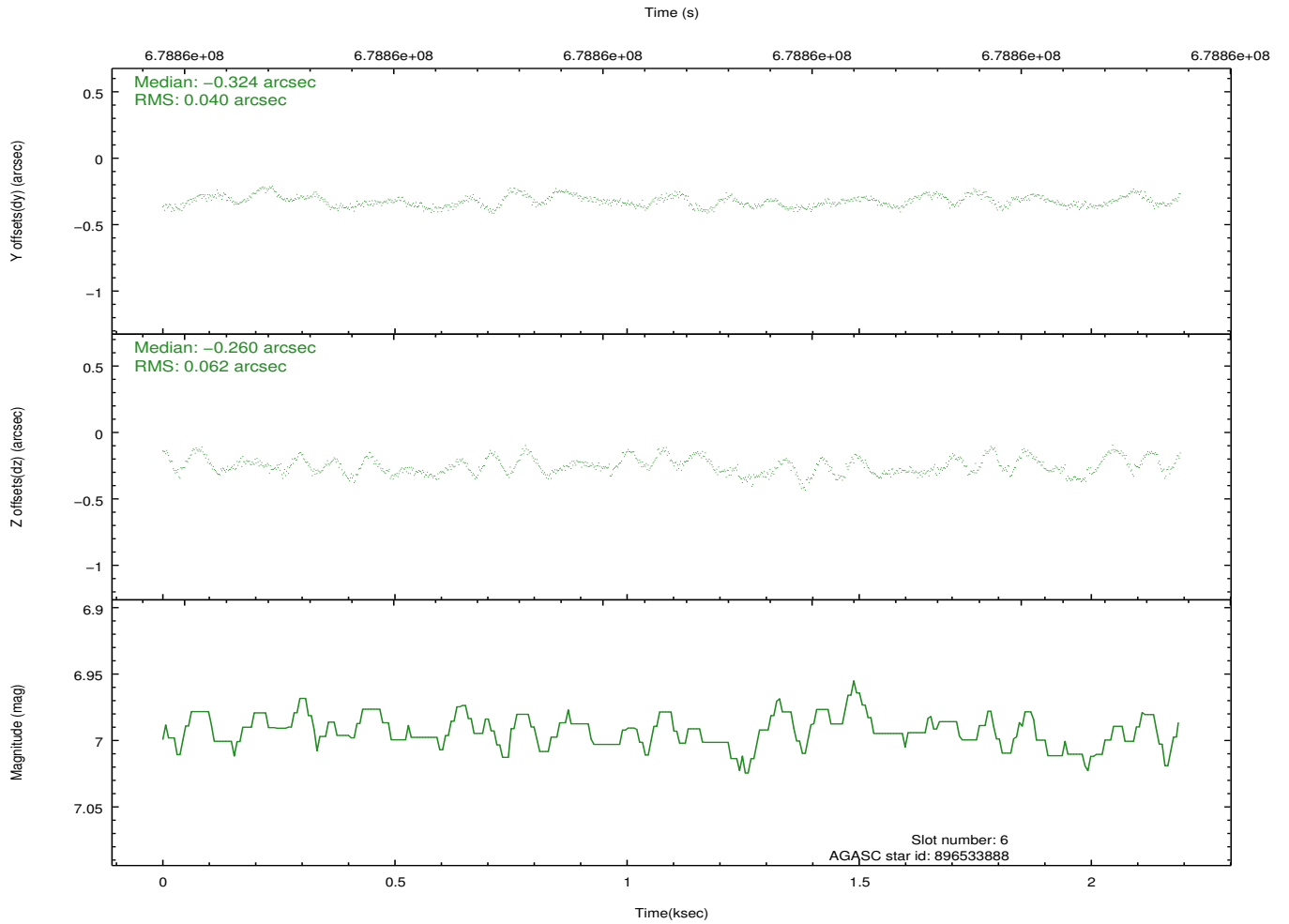
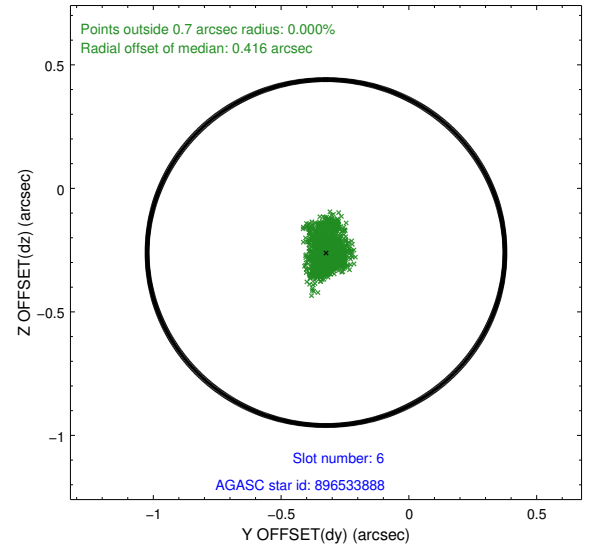
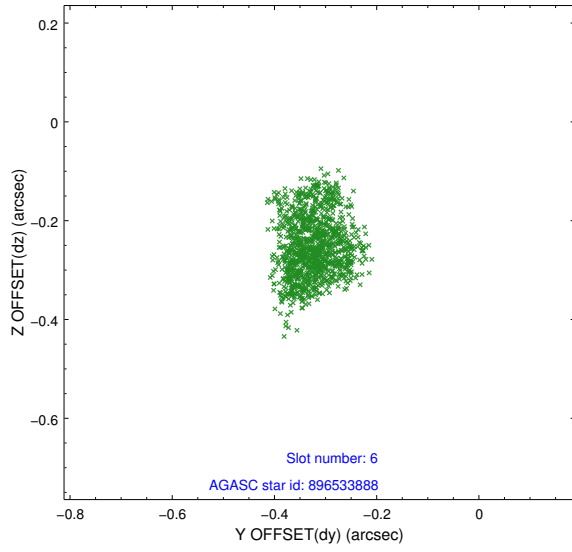
2.4.2 Slot 4



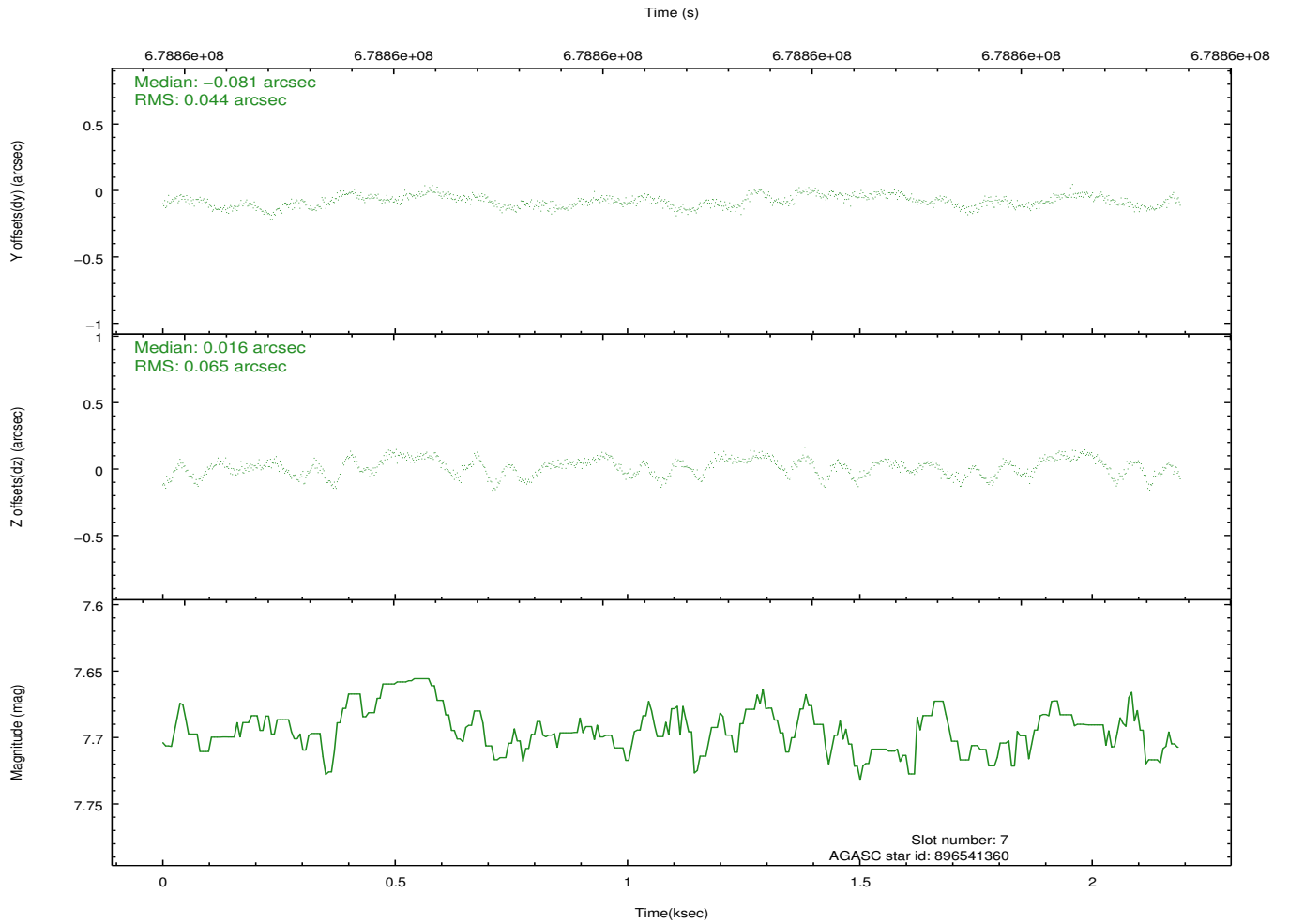
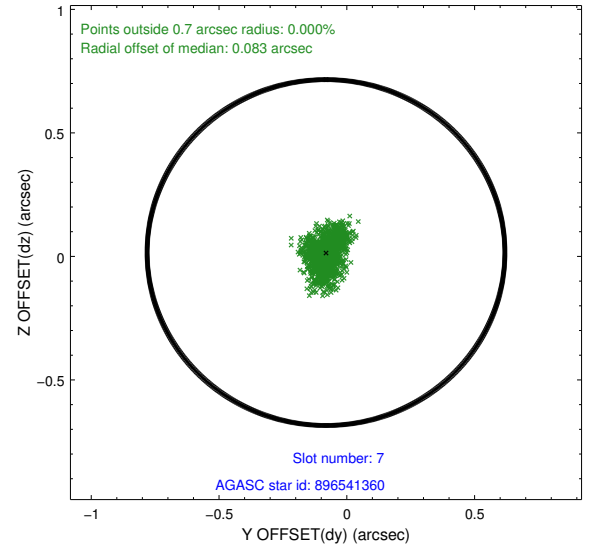
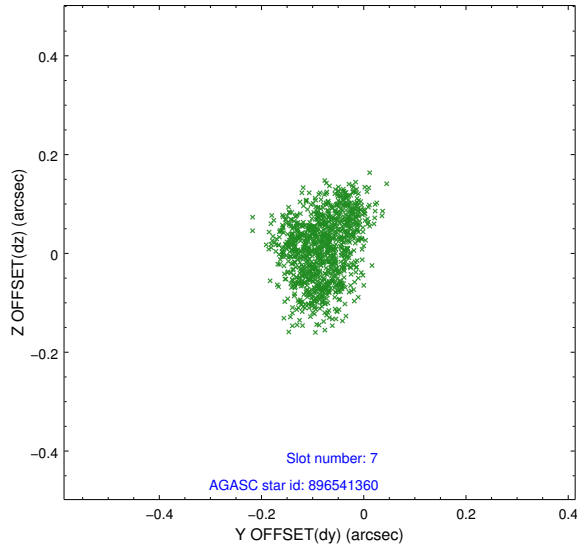
2.4.3 Slot 5



2.4.4 Slot 6

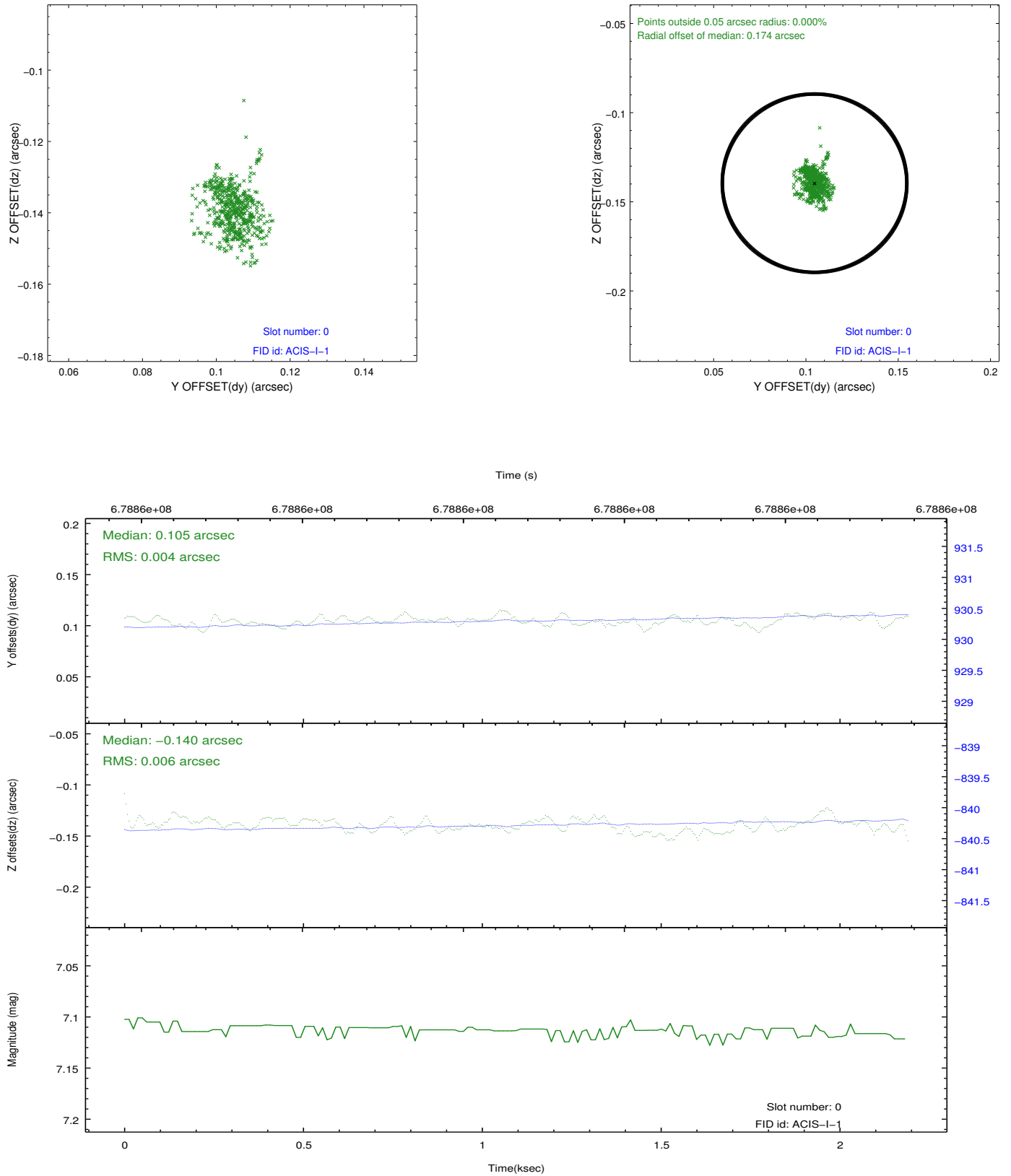


2.4.5 Slot 7

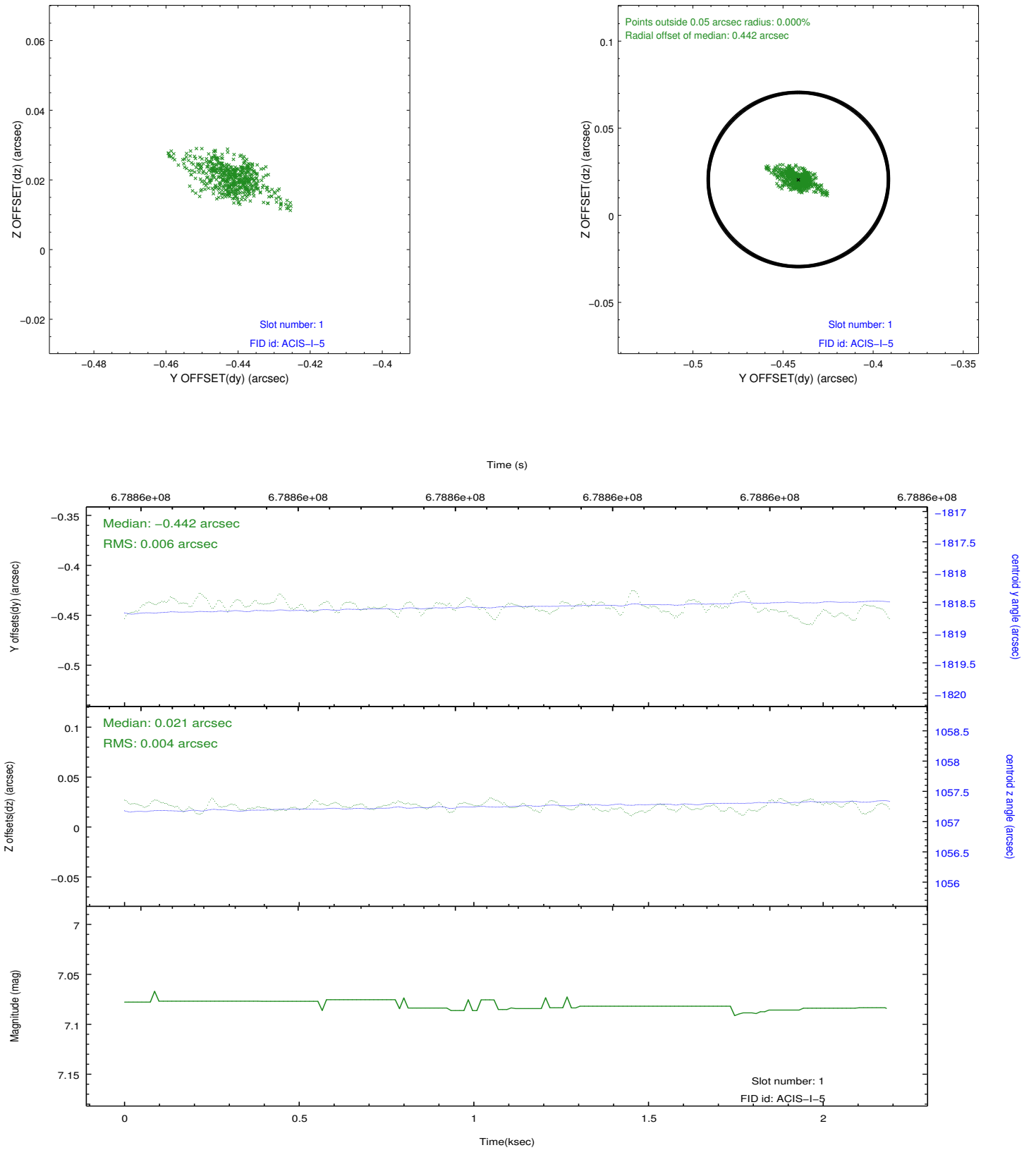


2.5 FID Slots

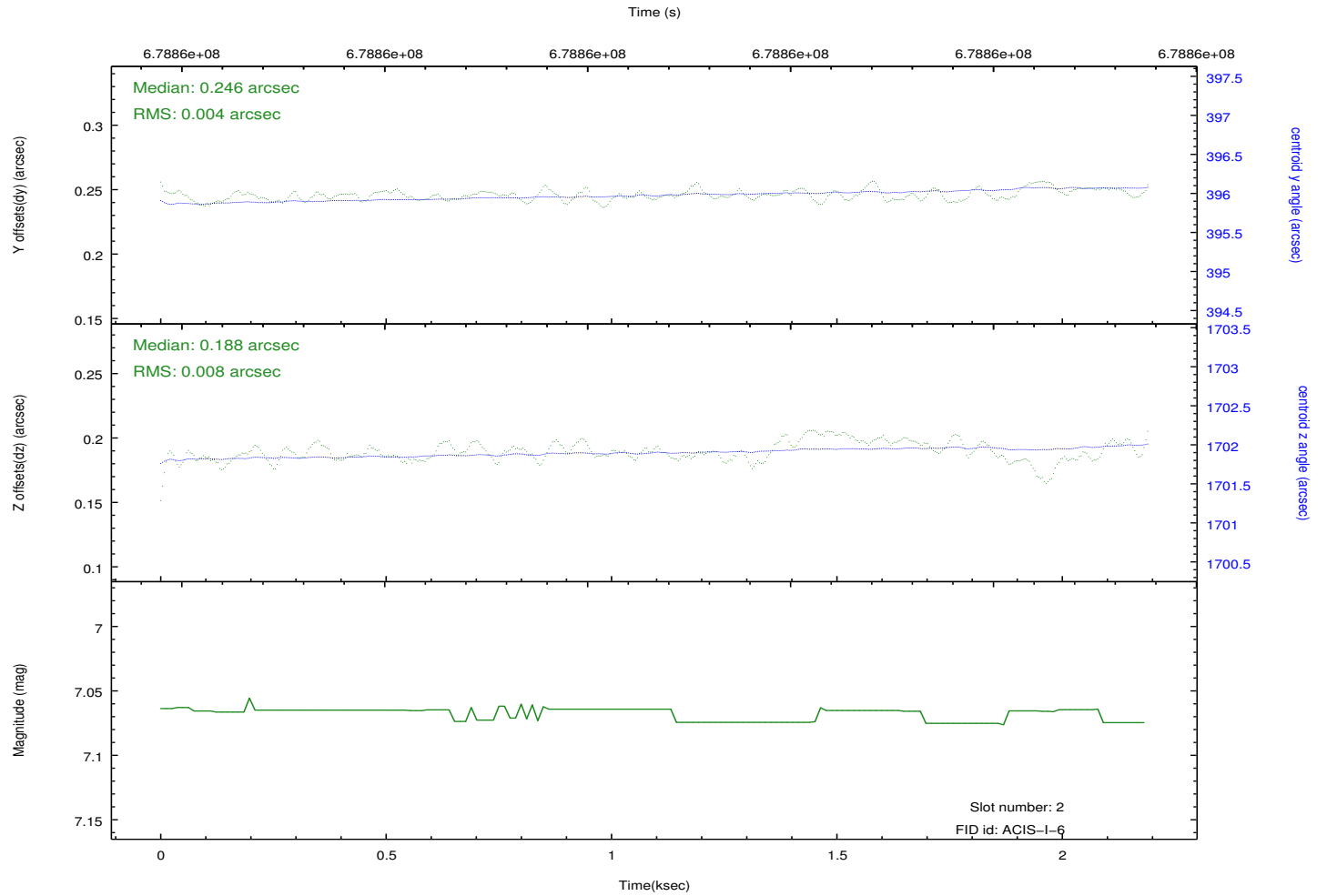
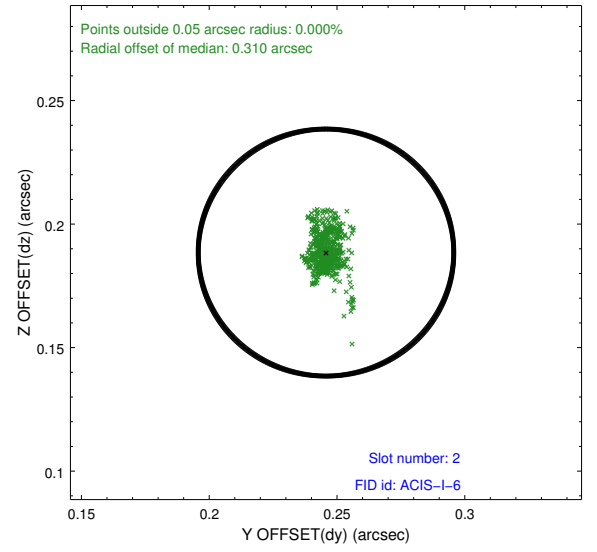
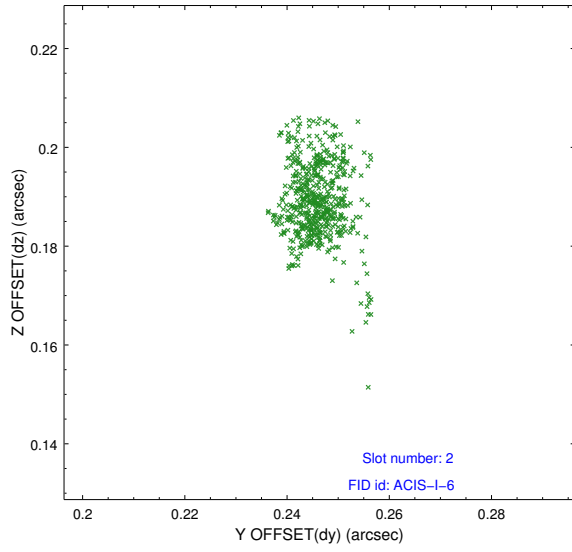
2.5.1 Slot 0



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)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9082397971153

A.2 Comments