

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21613 - L2 Version 1
Chandra X-Ray Center

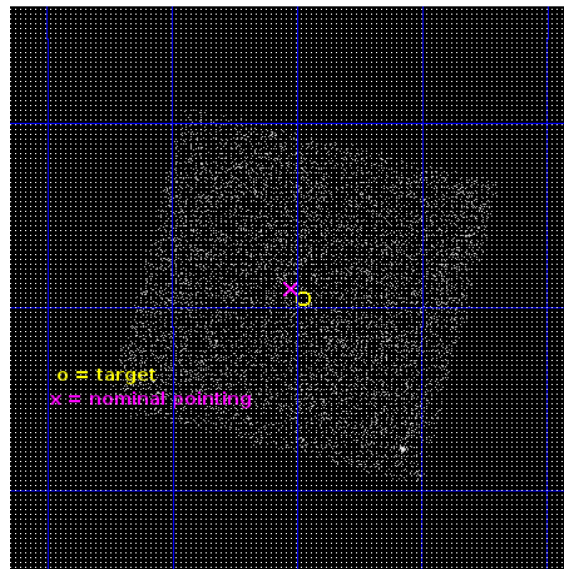
L2 Processing Date : Jul 8 2019

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

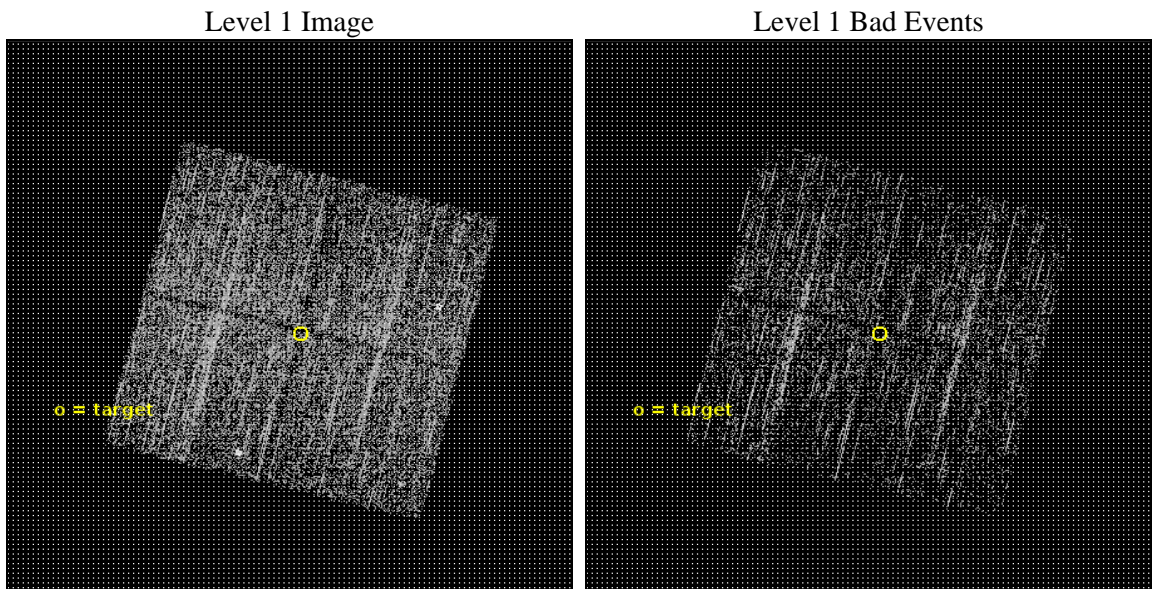
seq_num	300445	Sequence number
obs_id	21613	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.24367	Observer's specified target RA [deg]
dec_targ	-29.492378	Observer's specified target Dec [deg]
ra_nom	265.25564621552	Nominal RA [deg]
dec_nom	-29.483592310574	Nominal Dec [deg]
roll_nom	284.21459836508	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.7678923607	Sum of GTIs [s]
livetime	1883.8284346325	Livetime [s]
ontime0	1908.6447724104	Sum of GTIs [s]
ontime1	1908.6858123541	Sum of GTIs [s]
ontime2	1908.726852417	Sum of GTIs [s]
ontime3	1908.7678923607	Sum of GTIs [s]
l2events	5924	Number of level 2 events



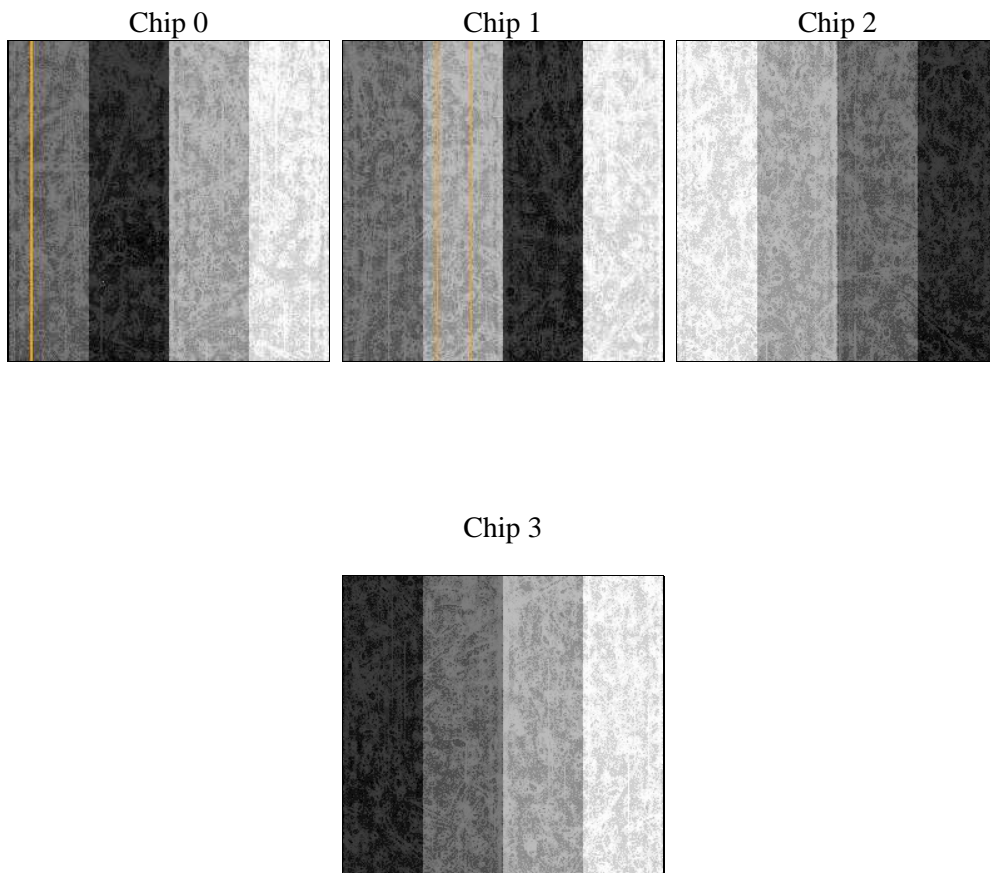
2 OBI

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	1908.7678923607	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.6447724104	Sum of GTIs [s]
date	2019-07-08T11:18:44	Date and time of file creation	ontime1	1908.6858123541	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.726852417	Sum of GTIs [s]
			ontime3	1908.7678923607	Sum of GTIs [s]
			l1events	61413	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13422	15075	17264	15652
rejected events	11519	12715	15061	14069
rejected %	85%	84%	87%	89%

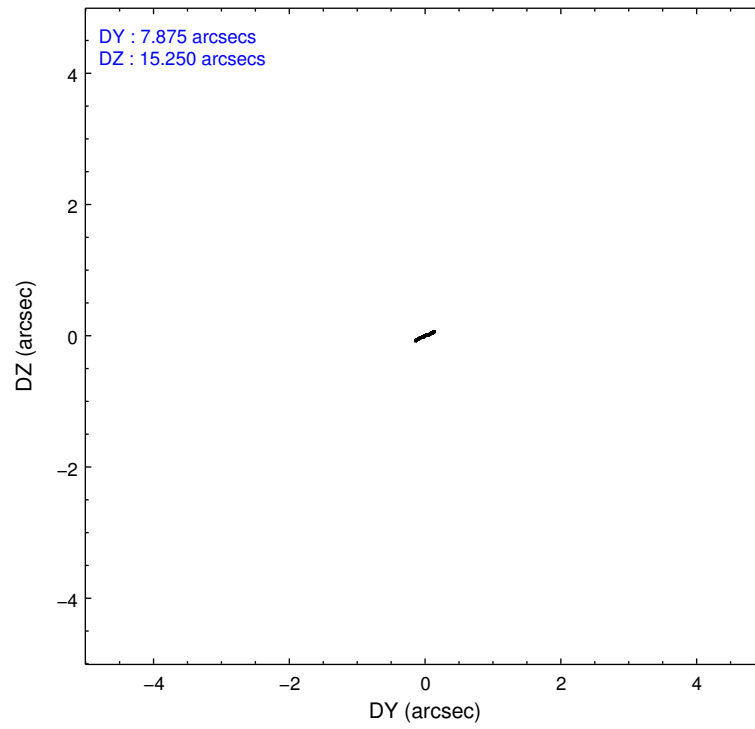
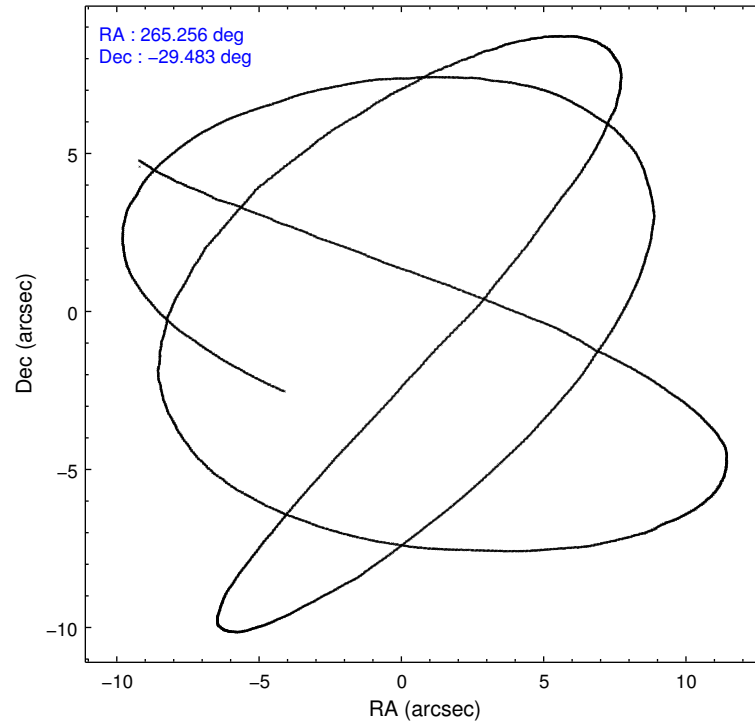
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	734	1181	1173	568
	5%	7%	6%	3%
grade 1 events	6	14	15	11
	0%	0%	0%	0%
grade 2 events	445	418	376	360
	3%	2%	2%	2%
grade 3 events	159	167	161	154
	1%	1%	0%	0%
grade 4 events	167	150	148	150
	1%	0%	0%	0%
grade 5 events	657	599	588	701
	4%	3%	3%	4%
grade 6 events	402	447	346	352
	2%	2%	2%	2%
grade 7 events	10852	12099	14457	13356
	80%	80%	83%	85%

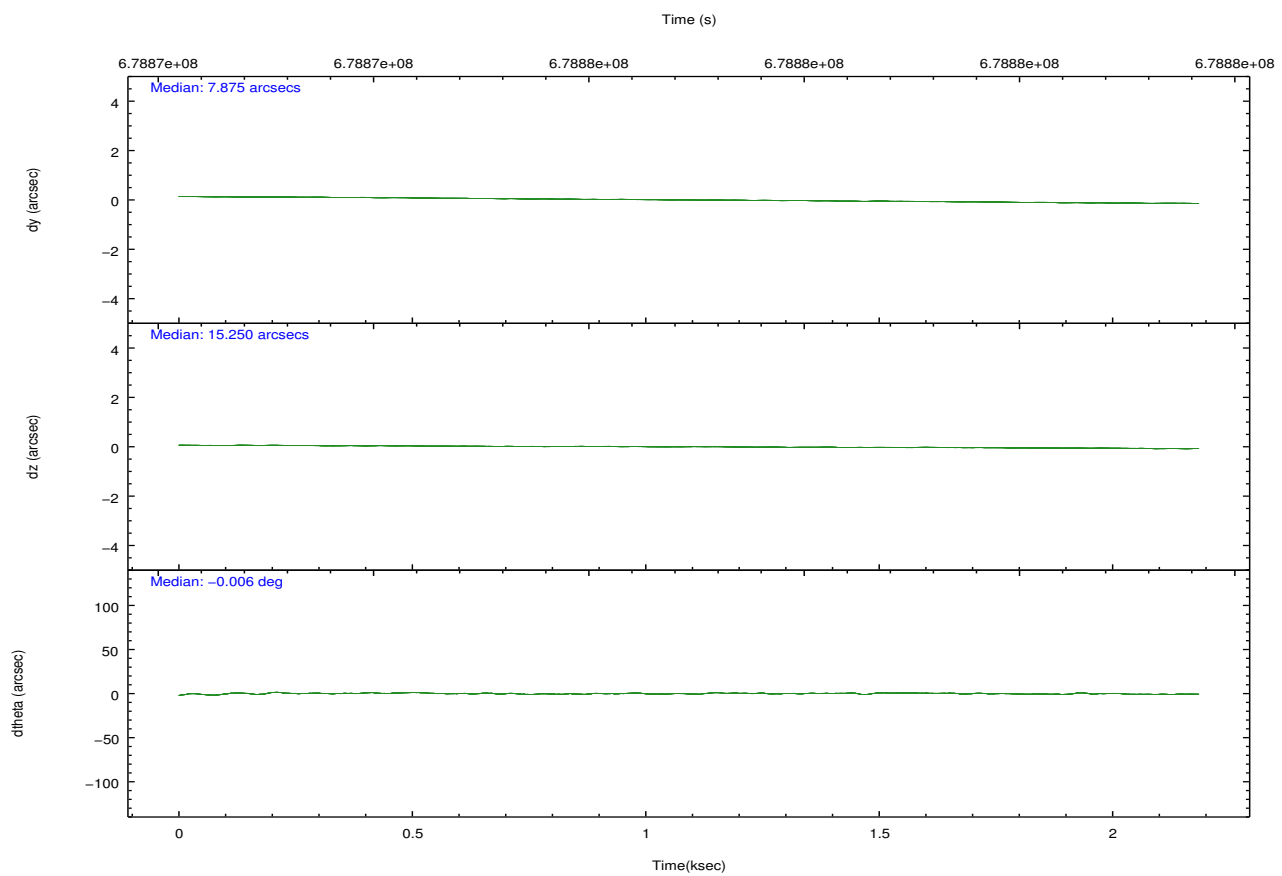
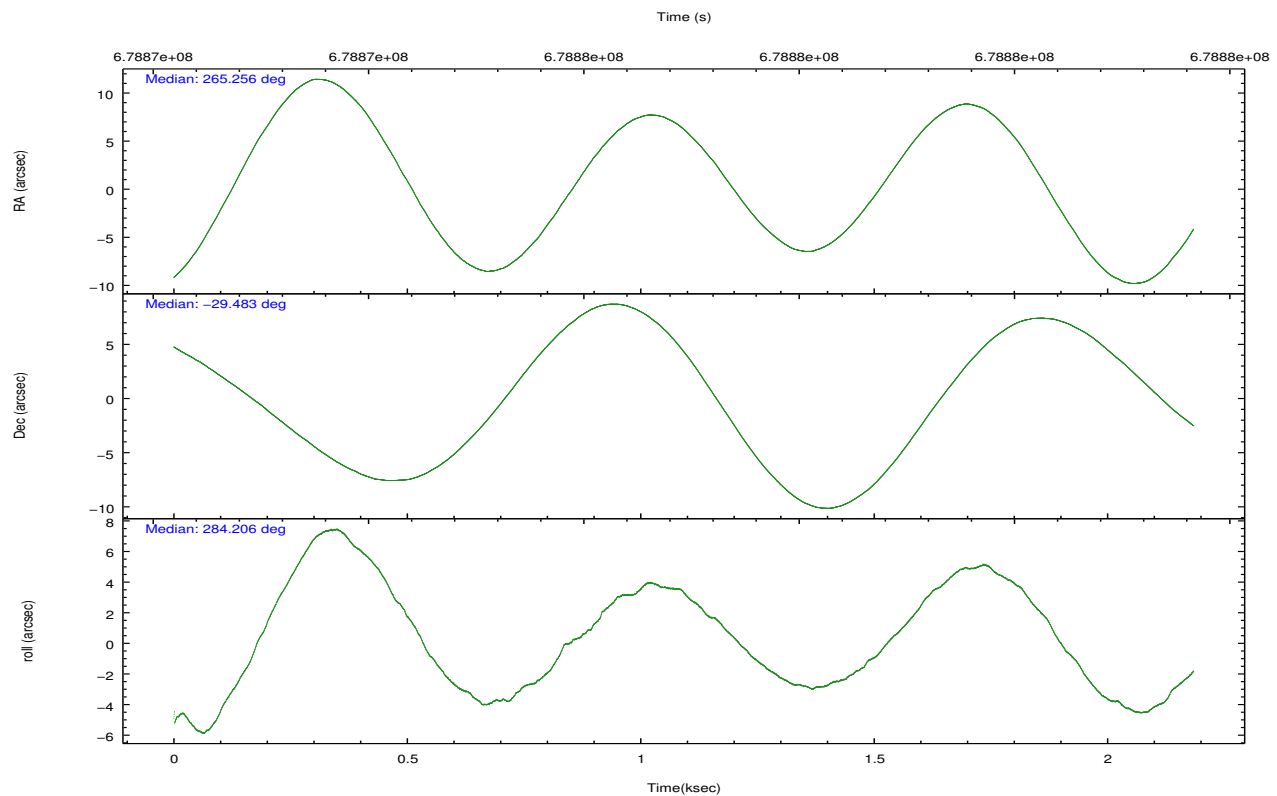
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	265.233479	265.2556462155202
[deg] Pointing Dec	-29.463957	-29.48359231057379
[deg] Pointing Roll	283.994994	284.2145983650783
[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)	678874335.184000	678873959.9184099
Observation start date	2019-07-07T08:11:06	2019-07-07T08:05:59
[s] Observation end time (MET)	678876335.184000	678876470.1435601
Observation end date	2019-07-07T08:44:26	2019-07-07T08:47:50
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



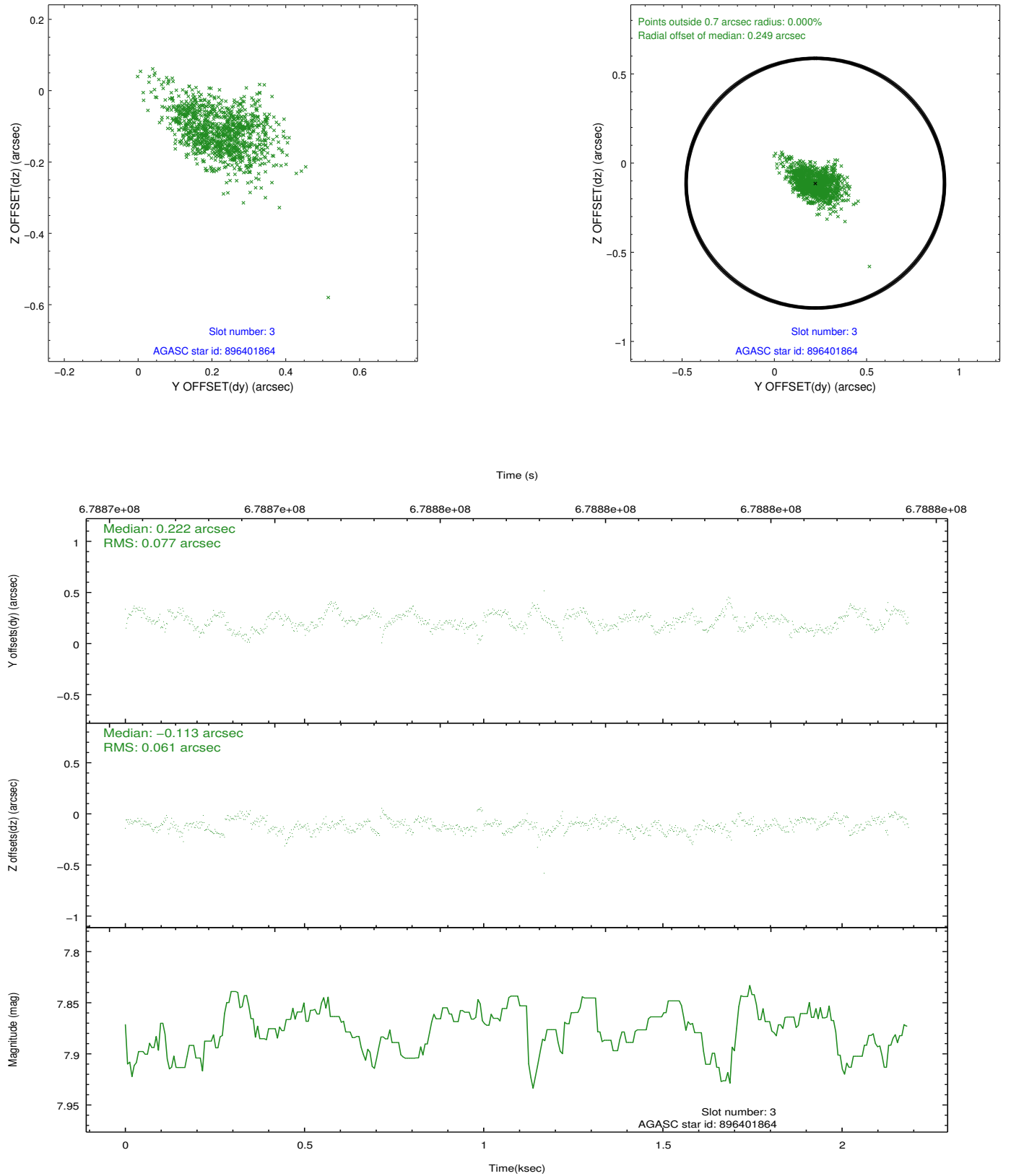


Slot Statistics

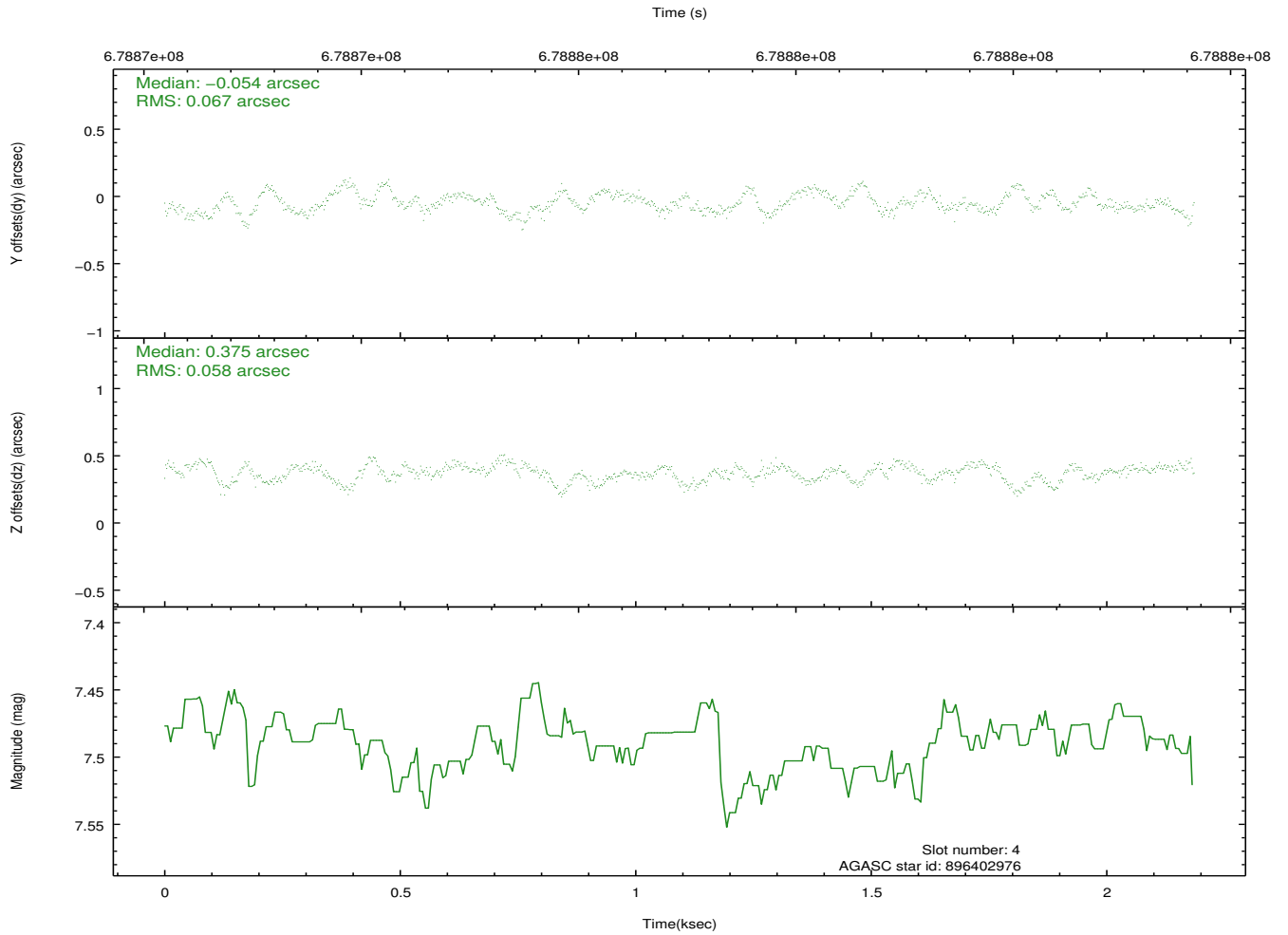
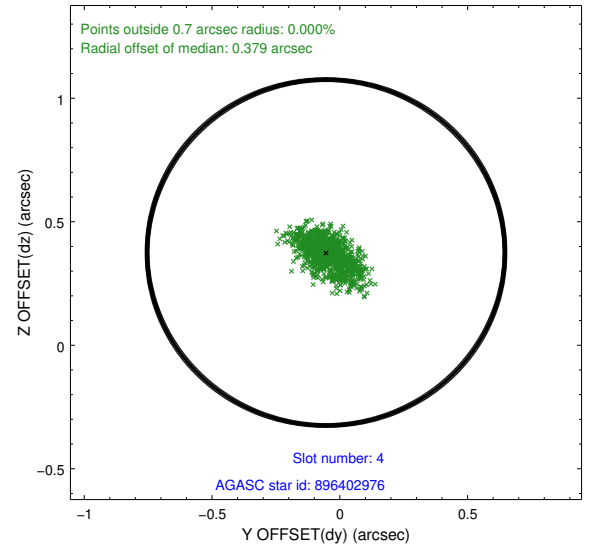
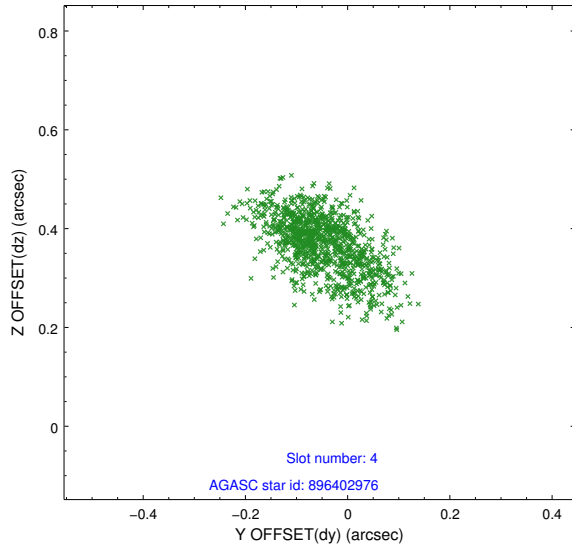
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-3	7.39	533	1.000	-0.068	0.083	0.010	0.016	0.000000	0.000000	49.19	-972
1	FID		ACIS-I-5	7.18	533	1.000	-0.366	-0.127	0.007	0.013	0.000000	0.000000	-1816.76	1056
2	FID		ACIS-I-6	7.16	533	1.000	0.341	0.113	0.008	0.013	0.000000	0.000000	394.31	1705
3	GUIDE	used	896401864	7.88	1066	1.000	0.222	-0.113	0.101	0.171	264.861768	-29.959752	1454.44	-1556
4	GUIDE	used	896402976	7.49	1067	1.000	-0.054	0.375	0.092	0.160	265.099474	-28.923203	-1988.76	59
5	GUIDE	used	896403224	8.26	1066	1.000	-0.114	0.044	0.080	0.132	265.612825	-29.438915	200.96	1175
6	GUIDE	used	896404376	6.68	1067	1.000	0.081	0.171	0.097	0.160	264.835179	-29.530972	-64.17	-1268
7	GUIDE	used	896540808	7.48	1066	1.000	-0.135	-0.470	0.069	0.117	265.985401	-29.308604	35.61	2422

2.4 Star Slots

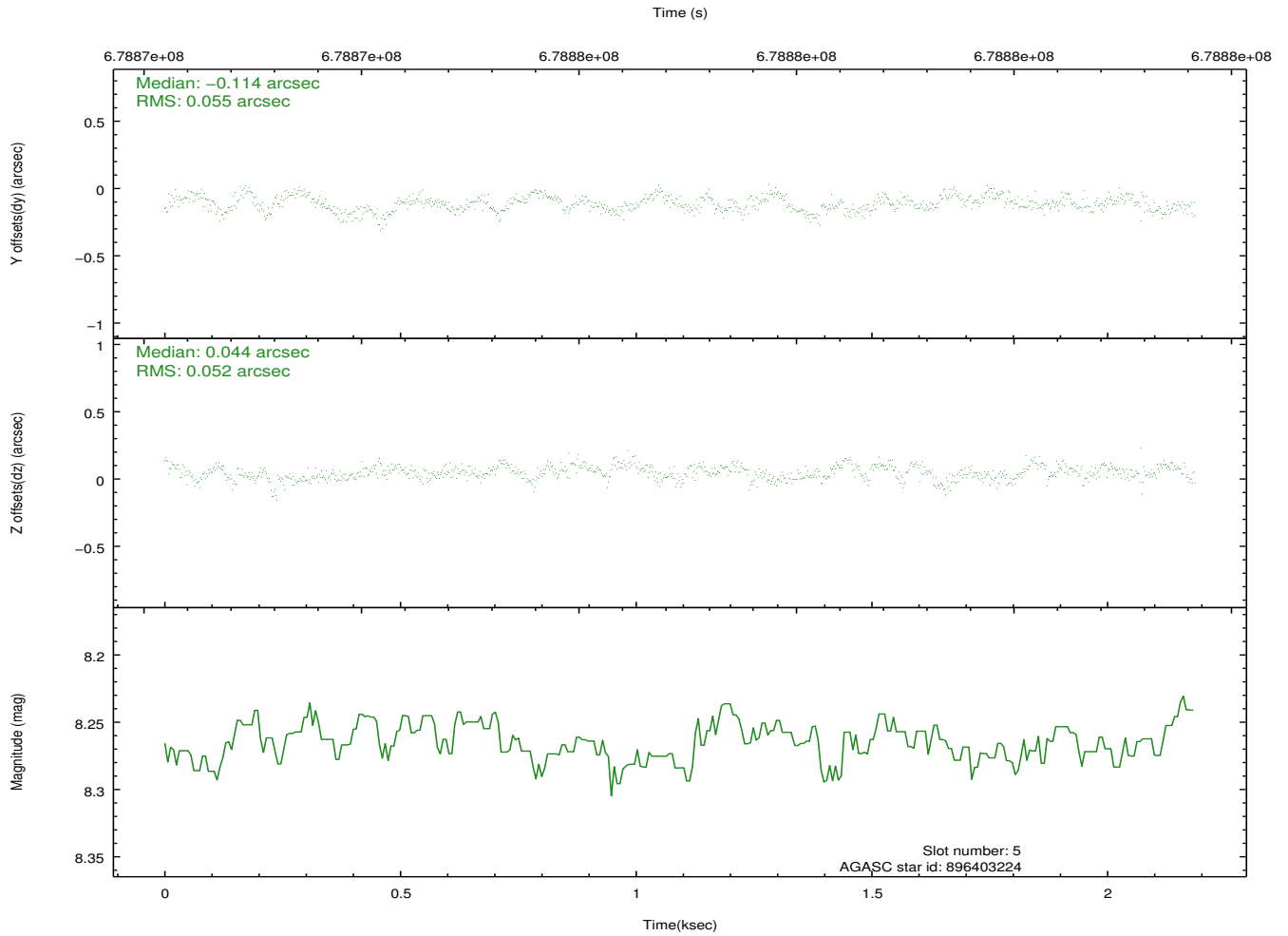
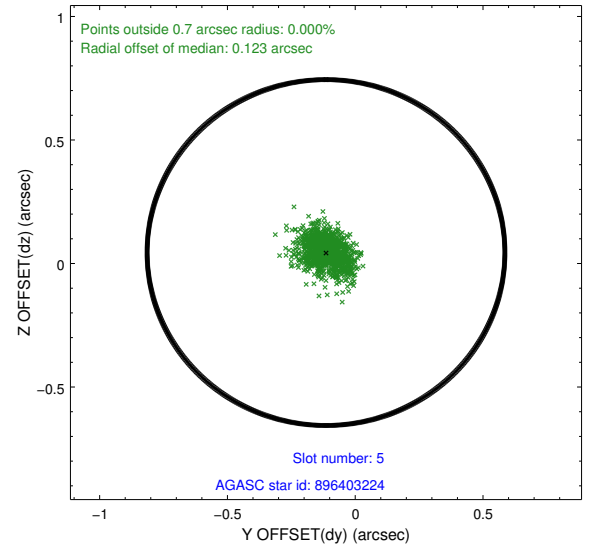
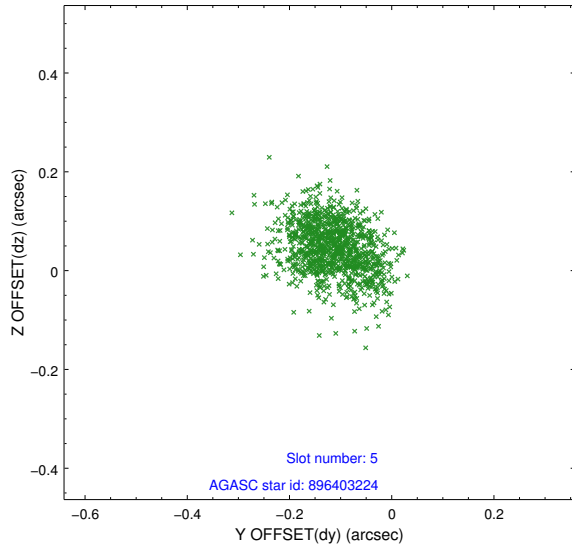
2.4.1 Slot 3



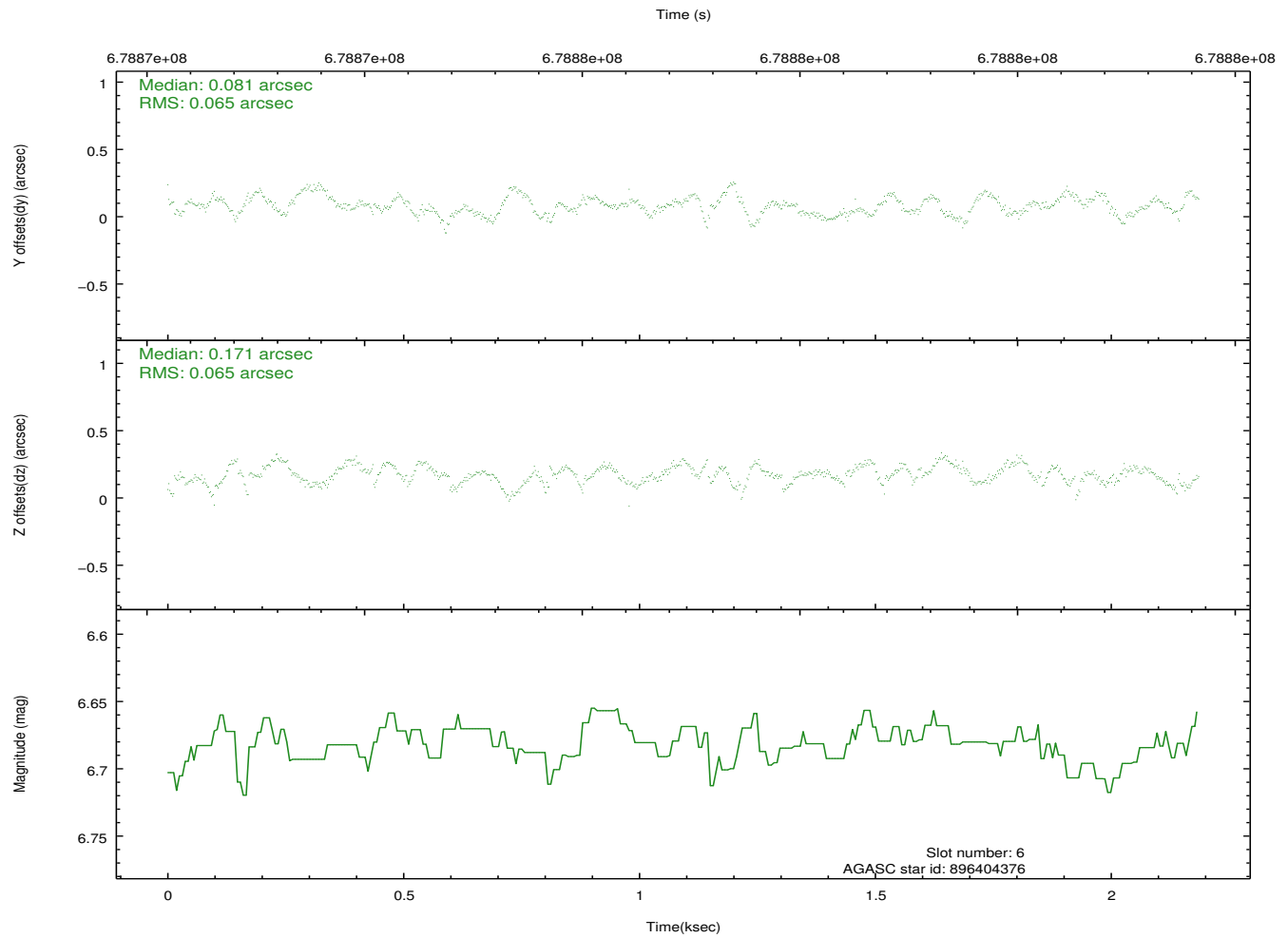
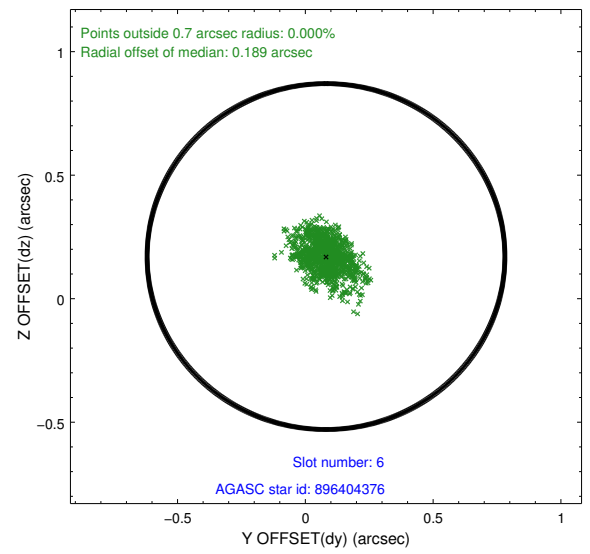
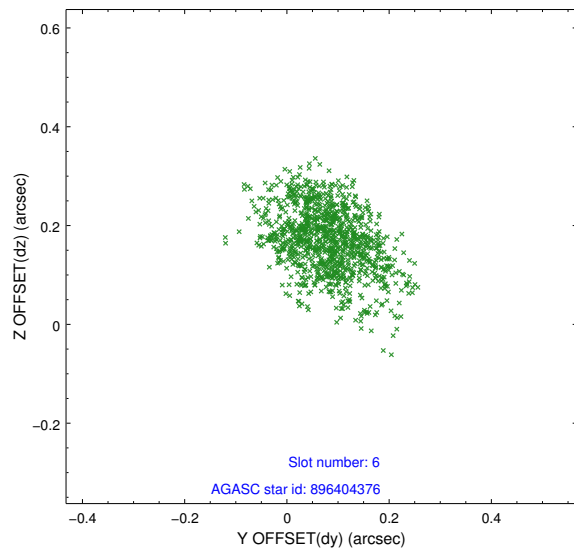
2.4.2 Slot 4



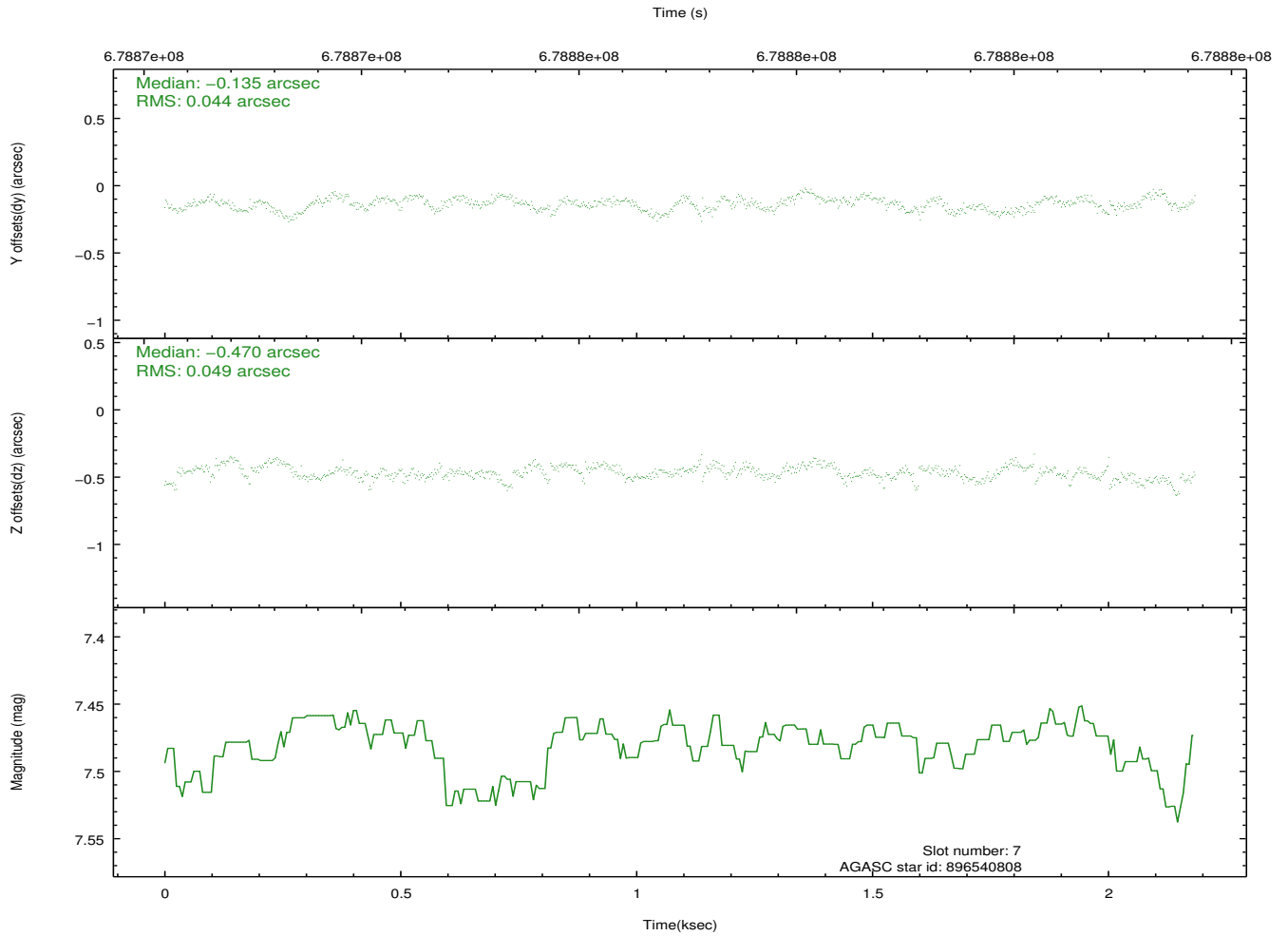
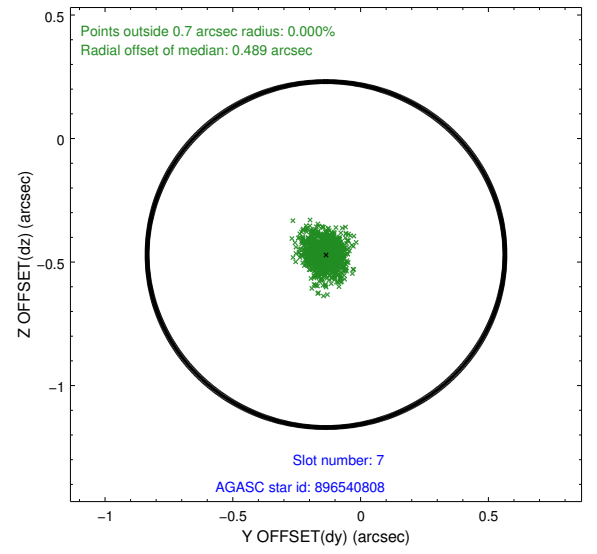
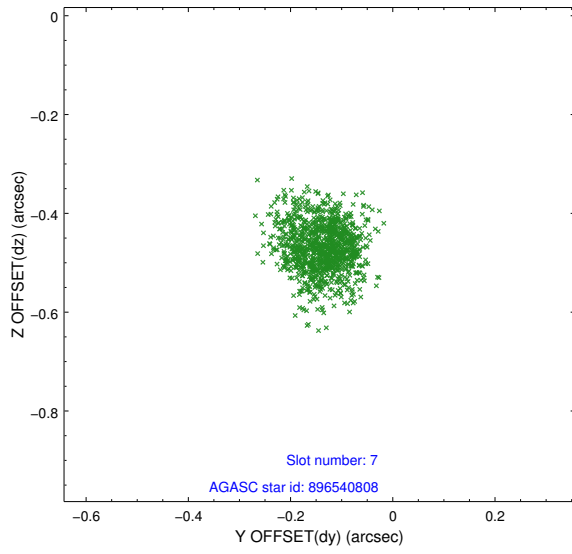
2.4.3 Slot 5



2.4.4 Slot 6

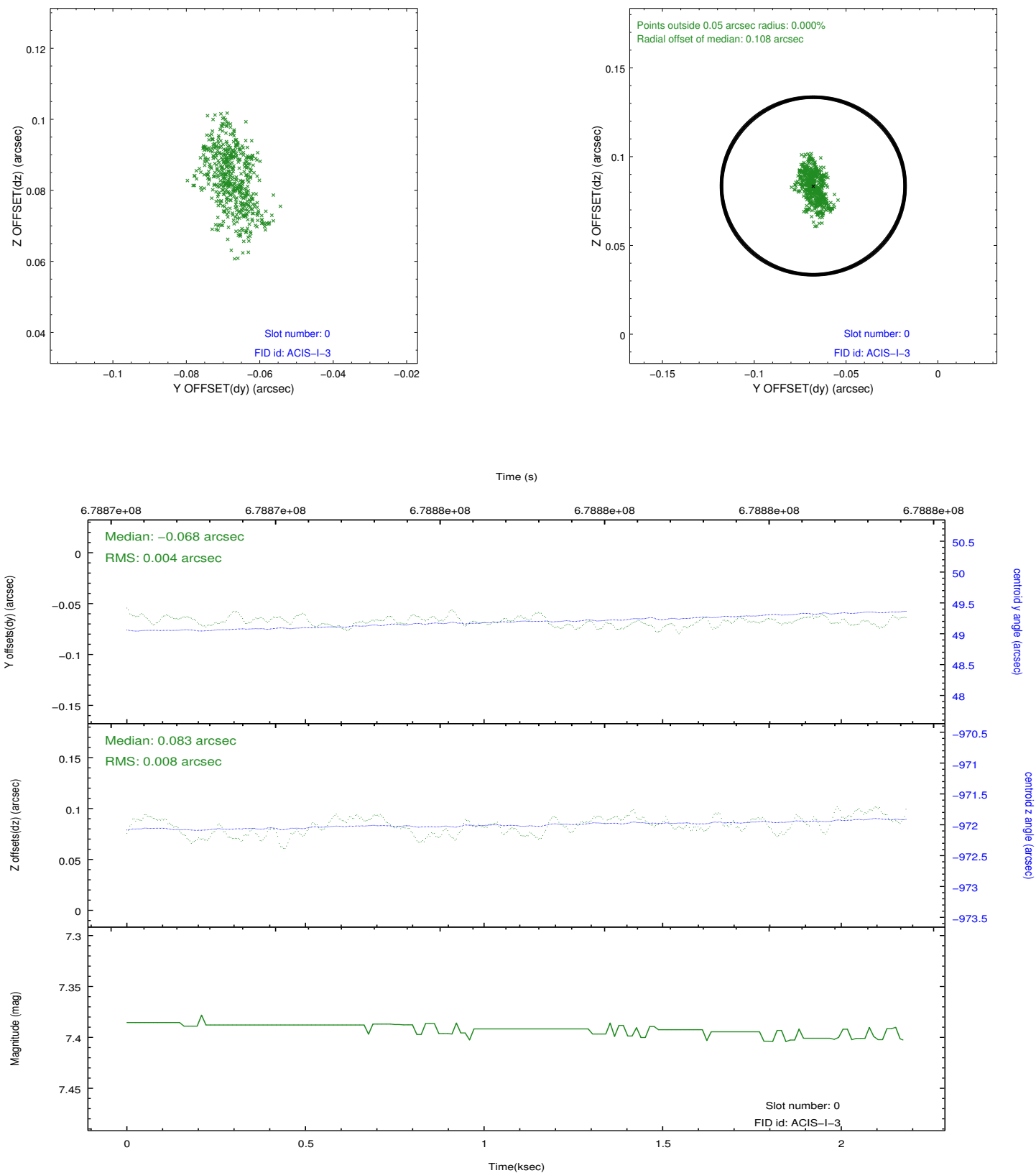


2.4.5 Slot 7

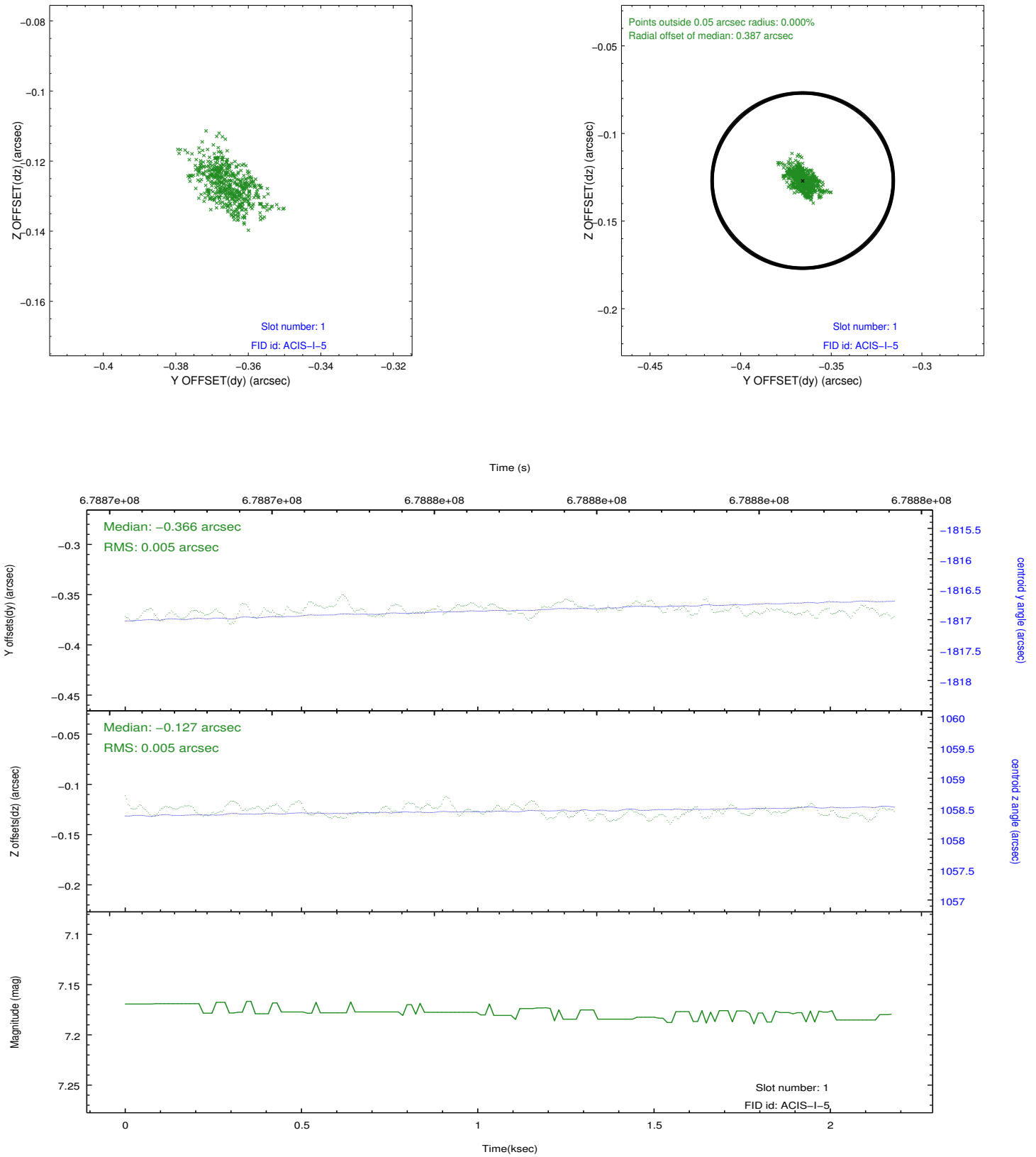


2.5 FID Slots

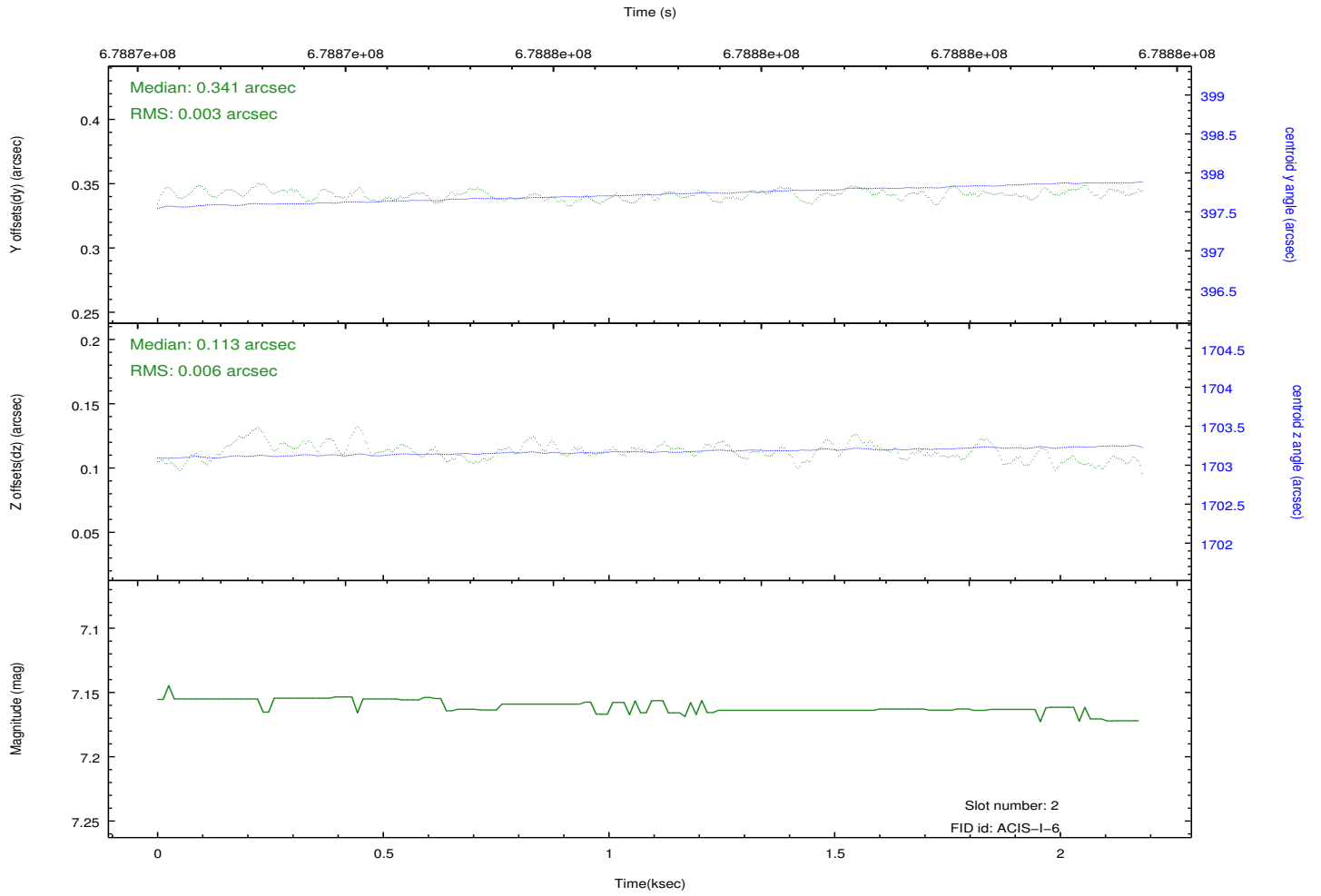
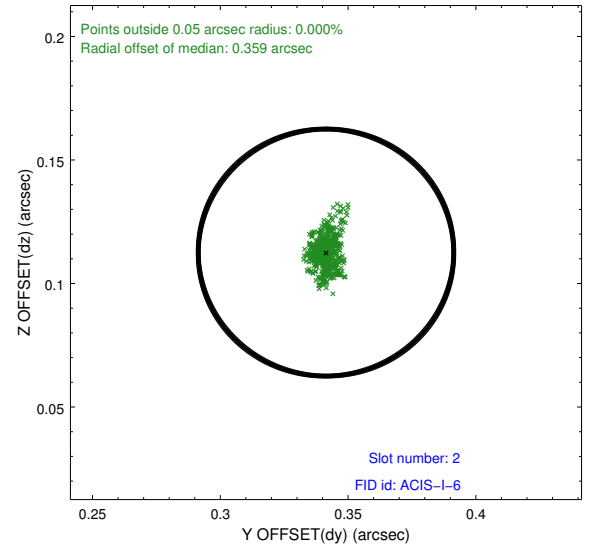
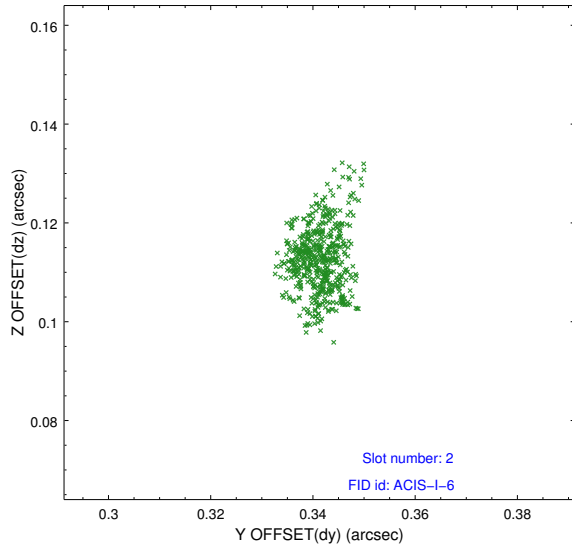
2.5.1 Slot 0



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	1.9087678923607

A.2 Comments