

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21609 - L2 Version 1
Chandra X-Ray Center

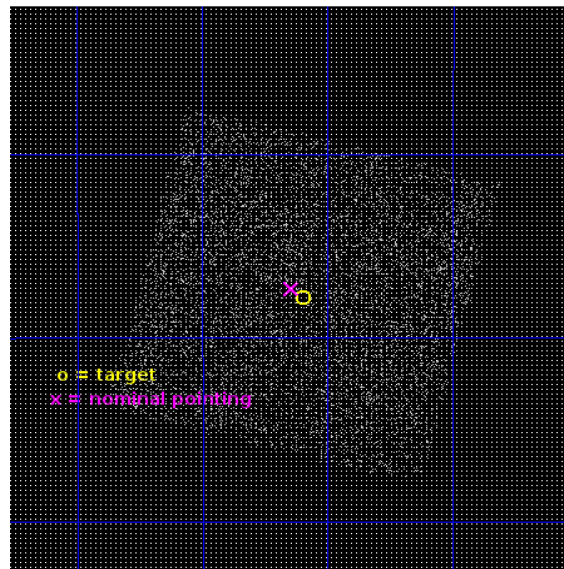
L2 Processing Date : Jul 8 2019

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

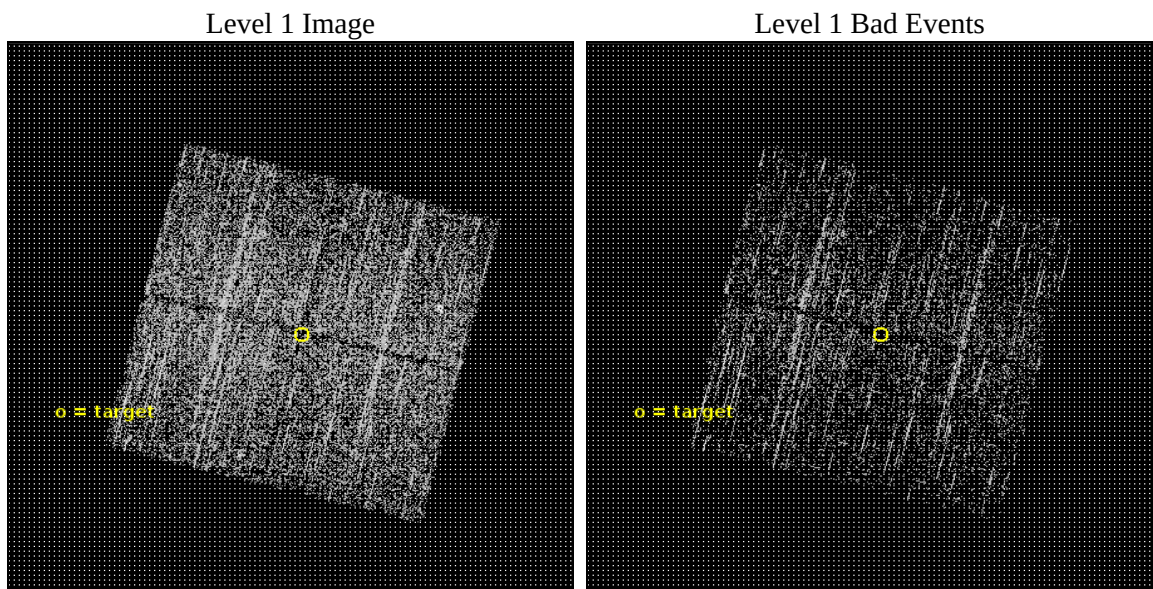
seq_num	300441	Sequence number
obs_id	21609	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.52393	Observer's specified target RA [deg]
dec_targ	-29.130739	Observer's specified target Dec [deg]
ra_nom	265.53610559029	Nominal RA [deg]
dec_nom	-29.122205695279	Nominal Dec [deg]
roll_nom	284.21462242115	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.5569552183	Sum of GTIs [s]
livetime	1883.6202535392	Livetime [s]
ontime0	1908.433835268	Sum of GTIs [s]
ontime1	1908.4748752117	Sum of GTIs [s]
ontime2	1908.5159152746	Sum of GTIs [s]
ontime3	1908.5569552183	Sum of GTIs [s]
l2events	5943	Number of level 2 events



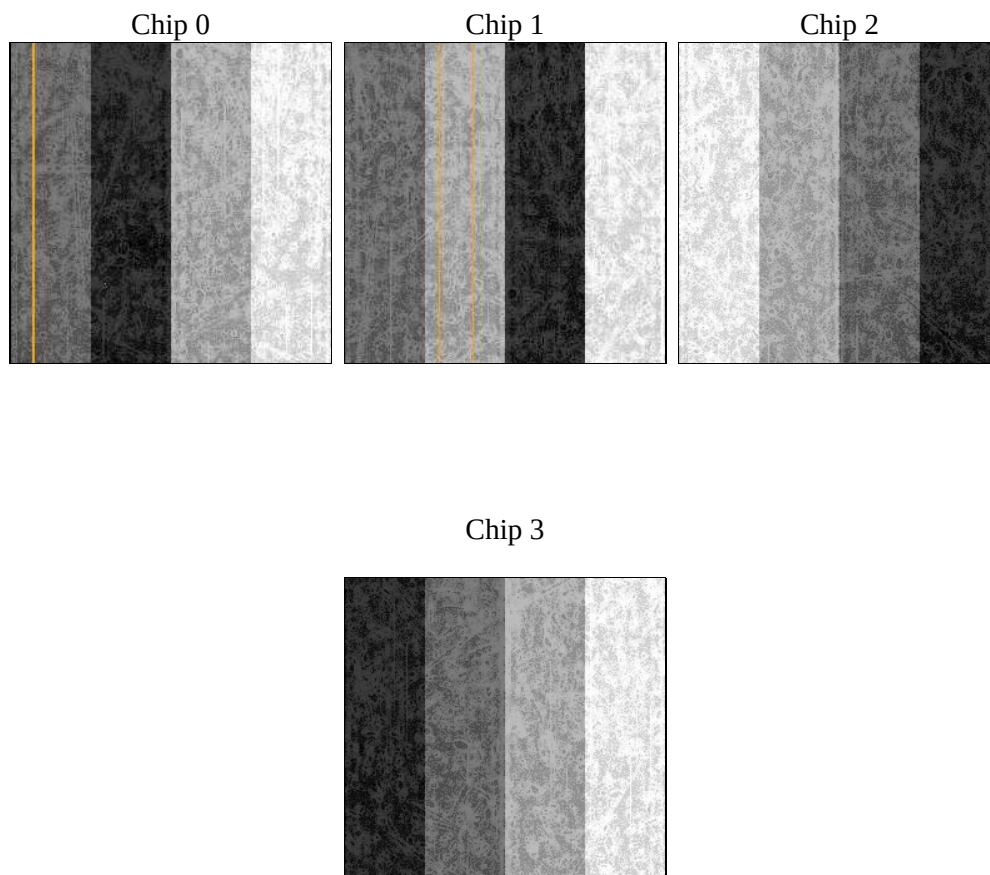
2 OBI

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	1908.5569552183	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.433835268	Sum of GTIs [s]
date	2019-07-08T11:14:31	Date and time of file creation	ontime1	1908.4748752117	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.5159152746	Sum of GTIs [s]
			ontime3	1908.5569552183	Sum of GTIs [s]
			l1events	57138	Number of level 1 events

2.1.4 Events

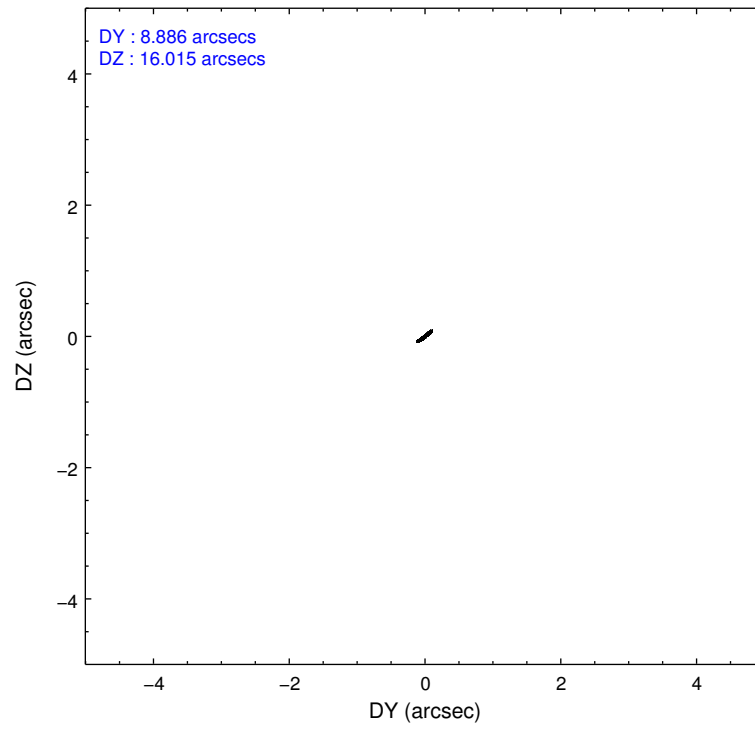
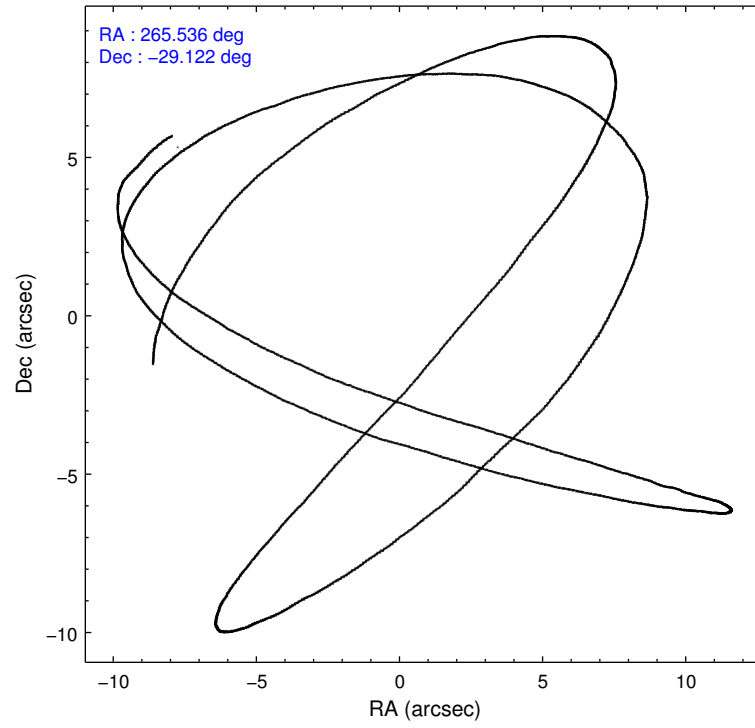
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	12924	14088	15584	14542
rejected events	11176	11922	13820	12835
rejected %	86%	84%	88%	88%

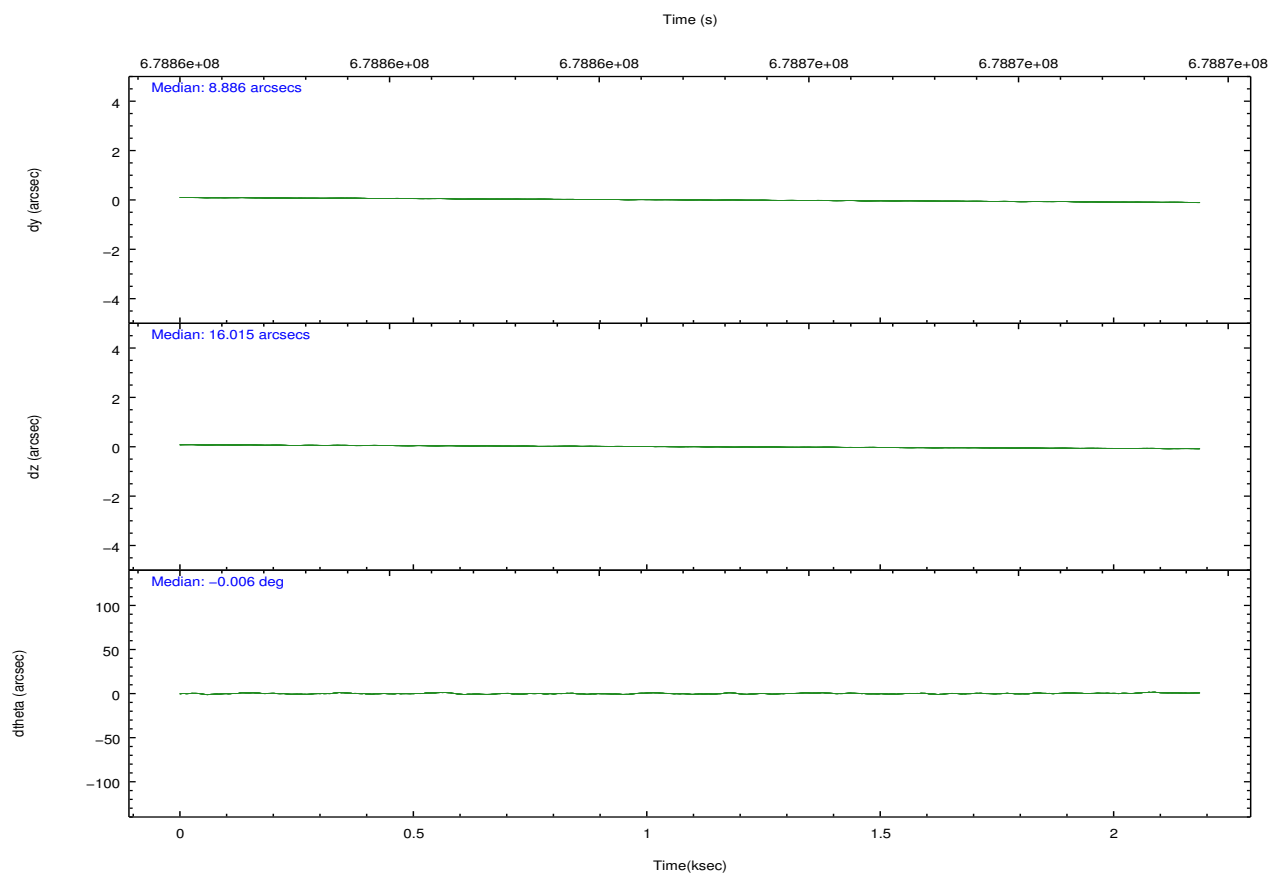
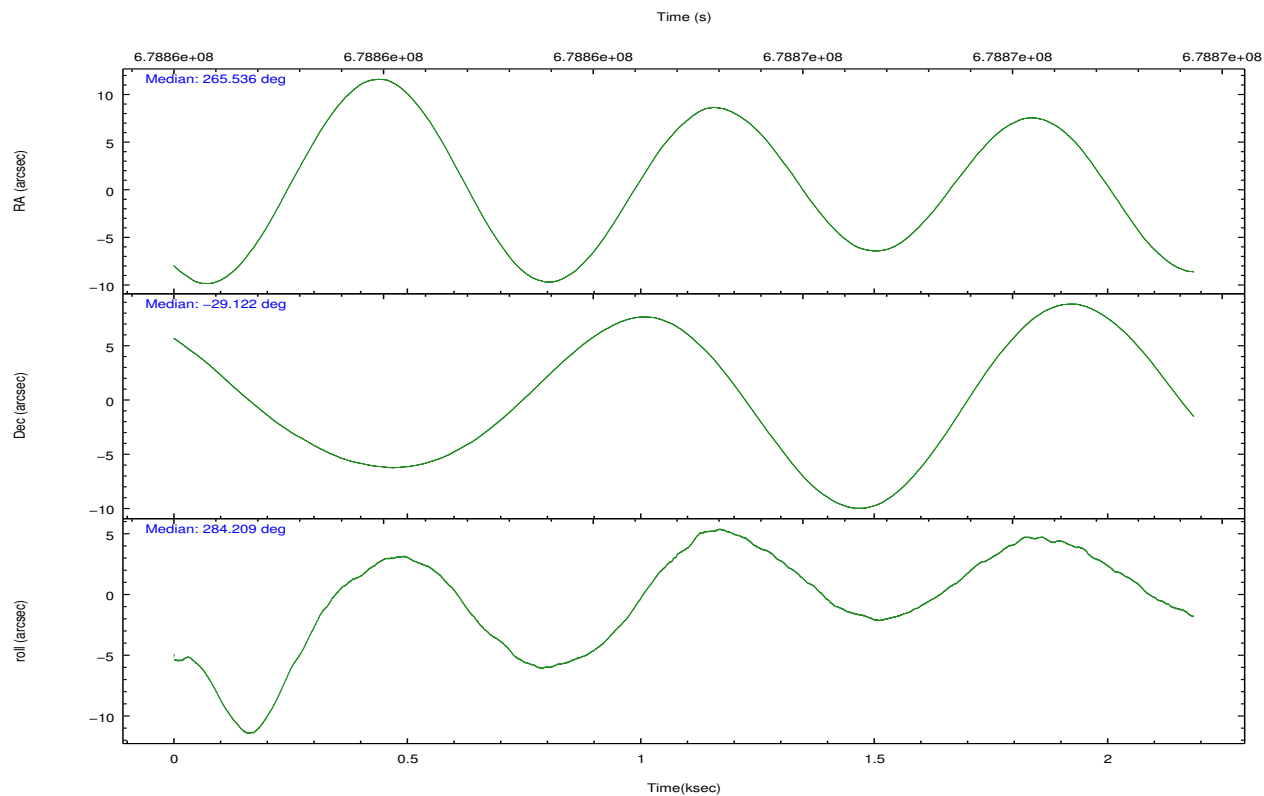
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	601	968	719	636
	4%	6%	4%	4%
grade 1 events	5	5	15	10
	0%	0%	0%	0%
grade 2 events	426	445	374	354
	3%	3%	2%	2%
grade 3 events	189	165	161	191
	1%	1%	1%	1%
grade 4 events	176	170	178	181
	1%	1%	1%	1%
grade 5 events	650	727	621	726
	5%	5%	3%	4%
grade 6 events	356	424	335	346
	2%	3%	2%	2%
grade 7 events	10521	11184	13181	12098
	81%	79%	84%	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	265.514041	265.5361055902939	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.102601	-29.12220569527886	Alternating exposures requested	N	N
[deg] Pointing Roll	283.995188	284.2146224211505	[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)	678864295.184000	678863919.53031			
Observation start date	2019-07-07T05:23:46	2019-07-07T05:18:39			
[s] Observation end time (MET)	678866295.184000	678866429.24296			
Observation end date	2019-07-07T05:57:06	2019-07-07T06:00:29			
Read mode	TIMED	TIMED			

2.3 Aspect



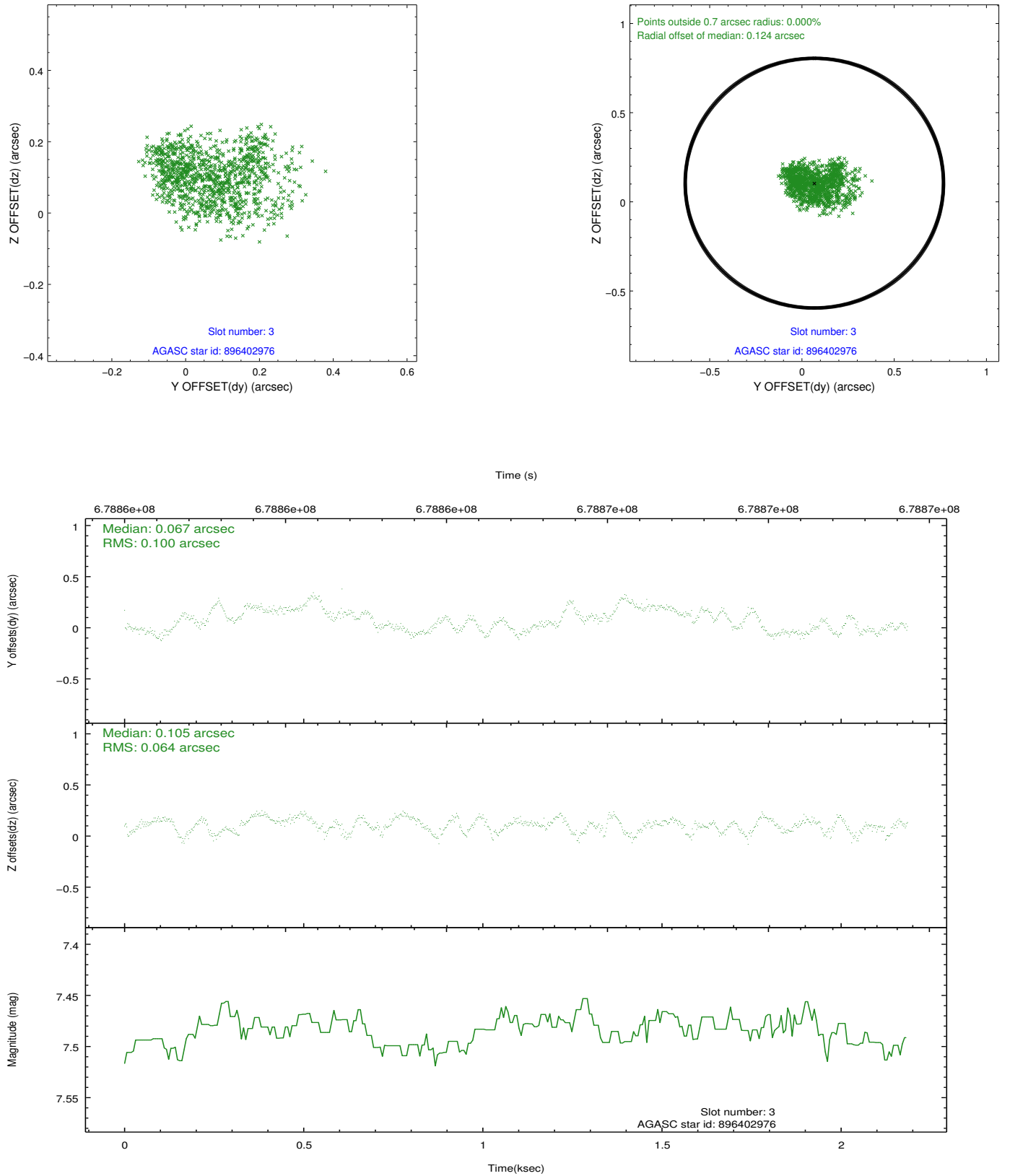


Slot Statistics

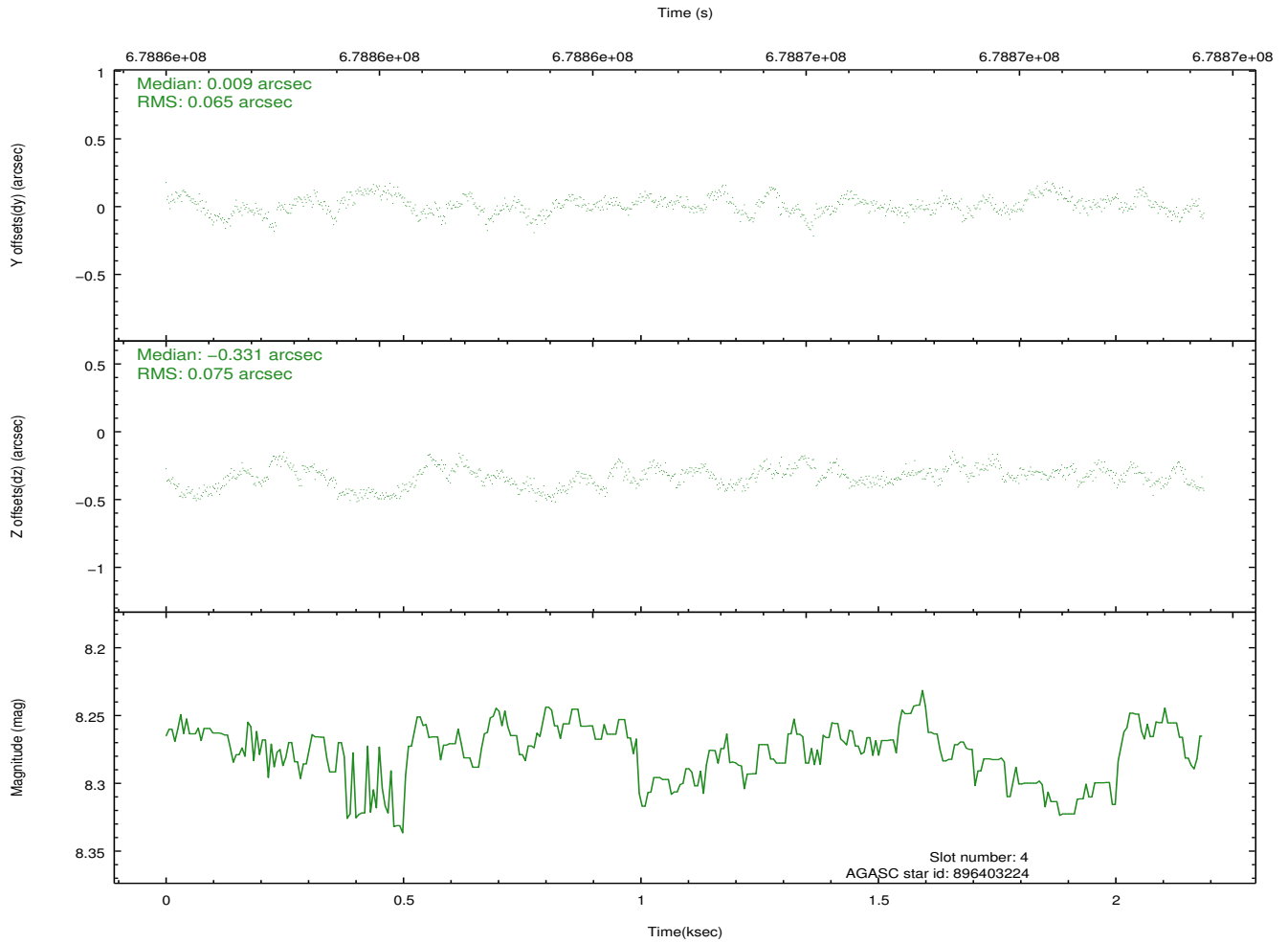
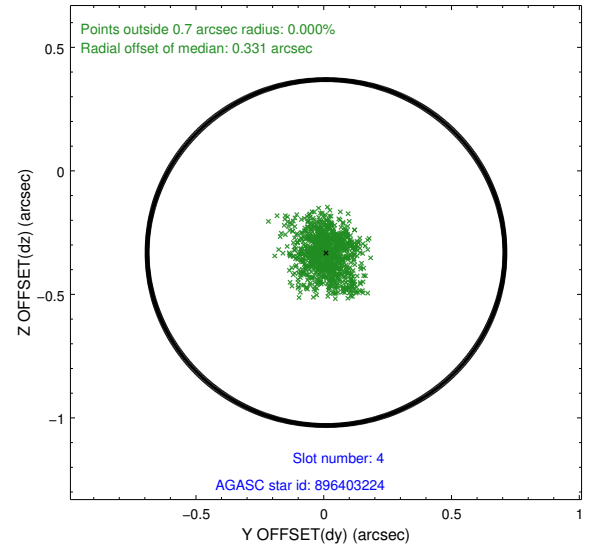
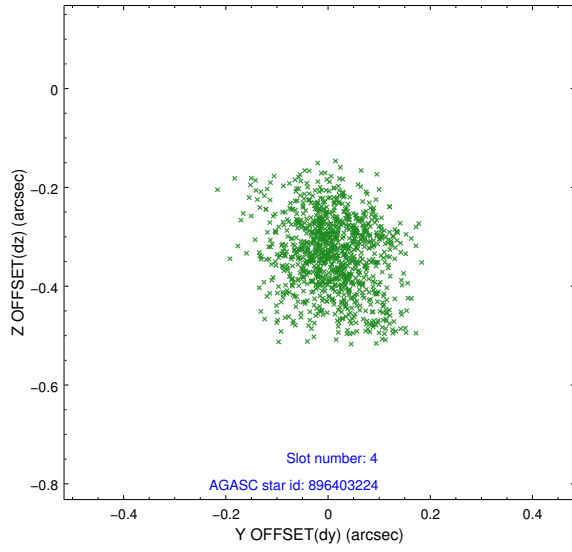
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.16	533	1.000	0.111	-0.164	0.007	0.012	0.000000	0.000000	930.92	-839
1	FID		ACIS-I-5	7.13	533	1.000	-0.453	0.018	0.006	0.008	0.000000	0.000000	-1816.24	1056
2	FID		ACIS-I-6	7.10	533	1.000	0.251	0.216	0.008	0.011	0.000000	0.000000	393.17	1704
3	GUIDE	used	896402976	7.48	1067	1.000	0.067	0.105	0.129	0.198	265.099474	-28.923203	-939.20	-1111
4	GUIDE	used	896403224	8.27	1067	1.000	0.009	-0.331	0.107	0.175	265.612825	-29.438915	1250.26	6
5	GUIDE	used	896404376	6.68	1067	1.000	0.153	0.168	0.137	0.209	264.835179	-29.530972	990.82	-2437
6	GUIDE	used	896404568	7.82	1067	1.000	-0.195	0.098	0.094	0.150	265.687293	-28.431080	-2211.22	1114
7	GUIDE	used	896405480	8.24	1066	1.000	-0.068	-0.059	0.223	0.354	265.220460	-29.599691	1514.26	-1322

2.4 Star Slots

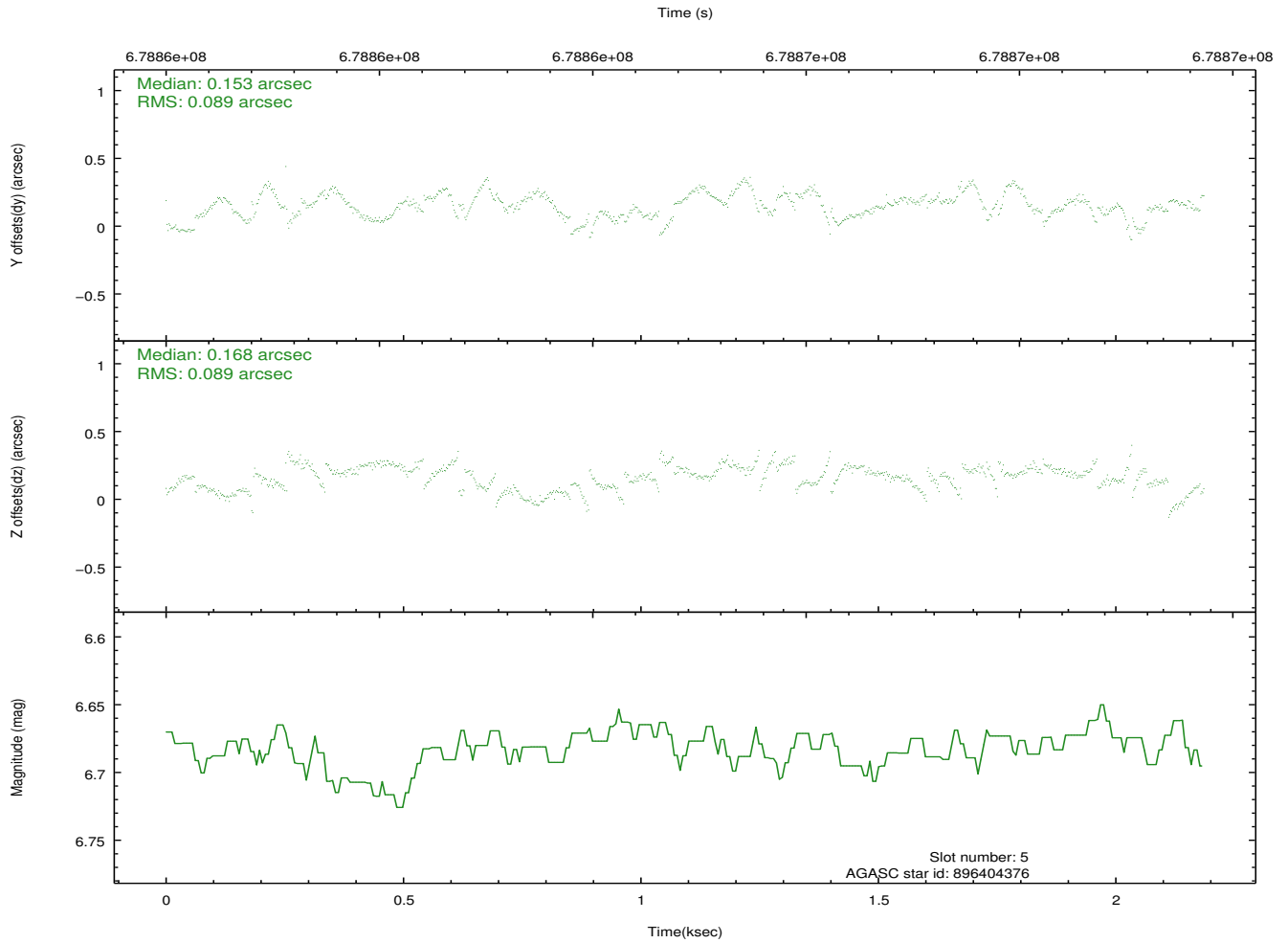
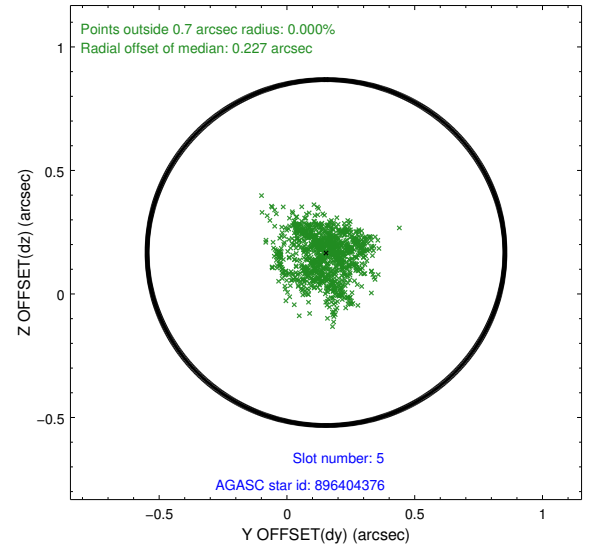
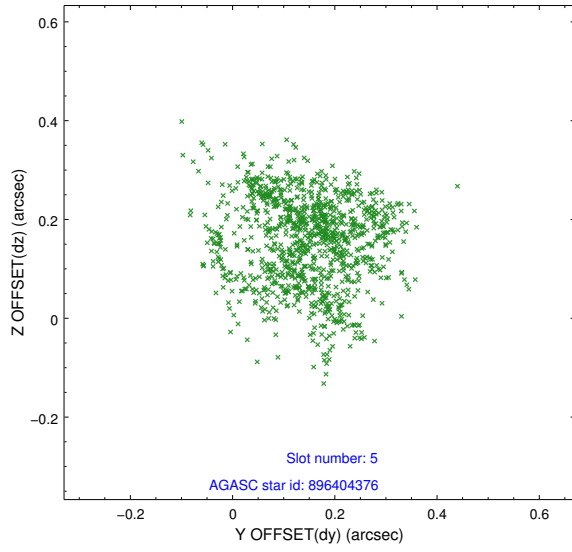
2.4.1 Slot 3



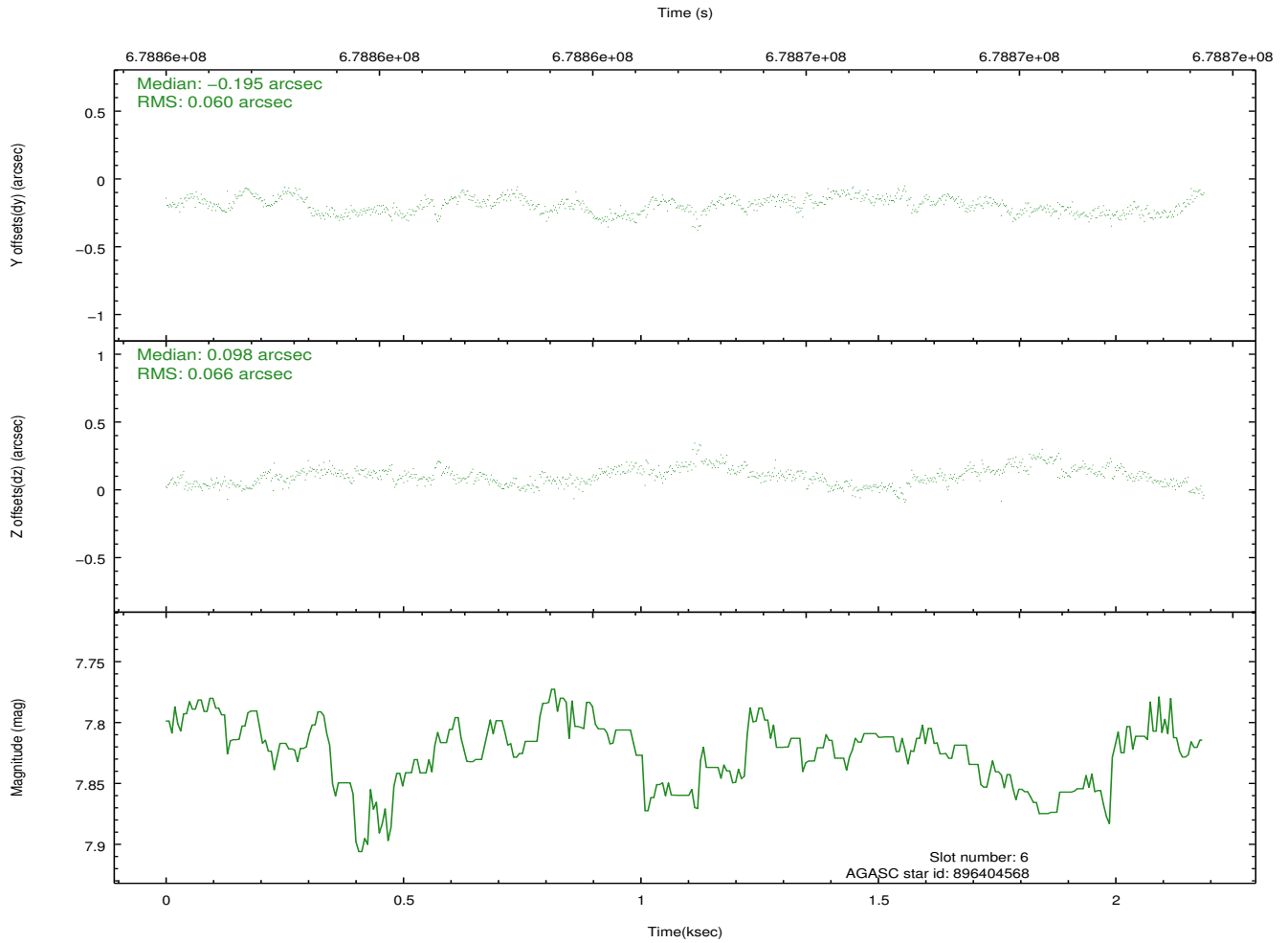
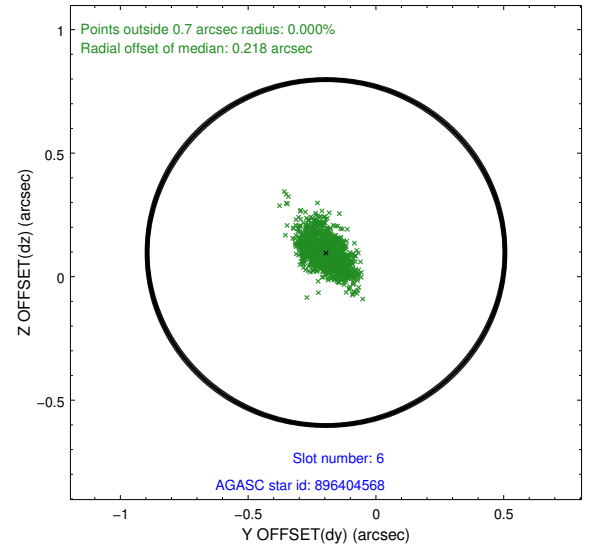
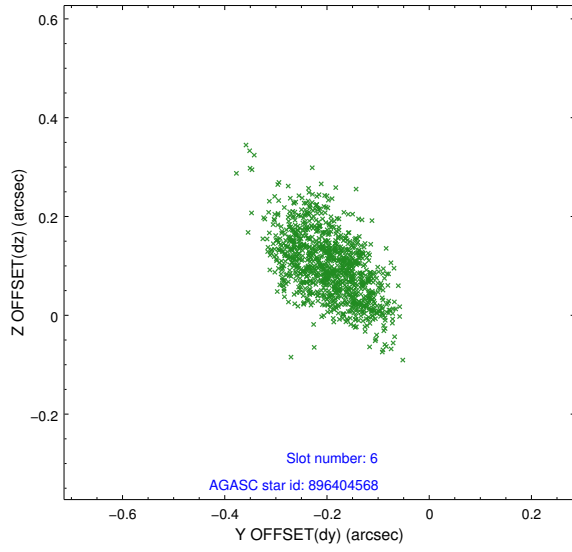
2.4.2 Slot 4



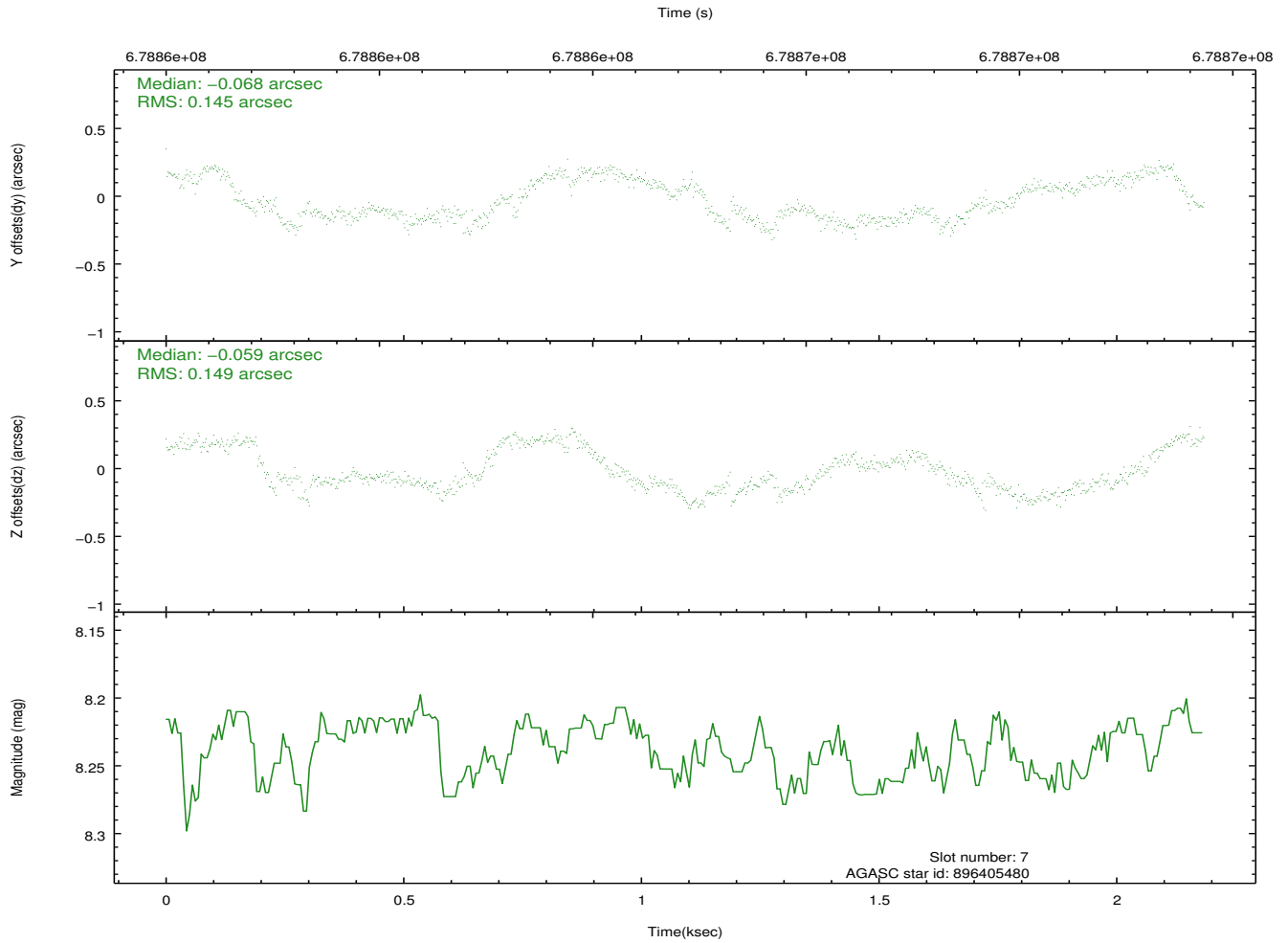
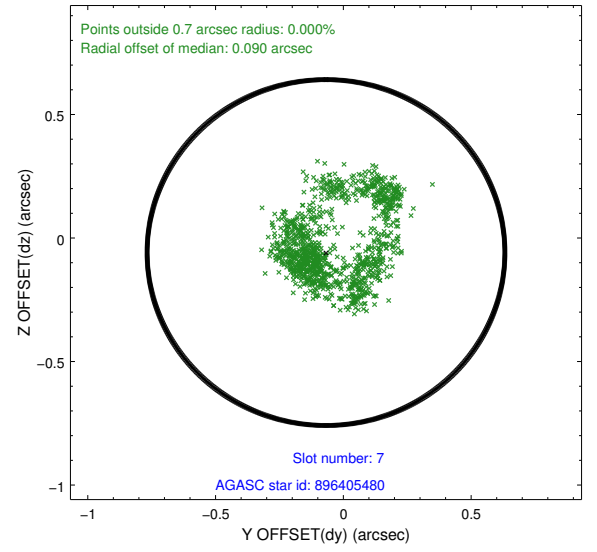
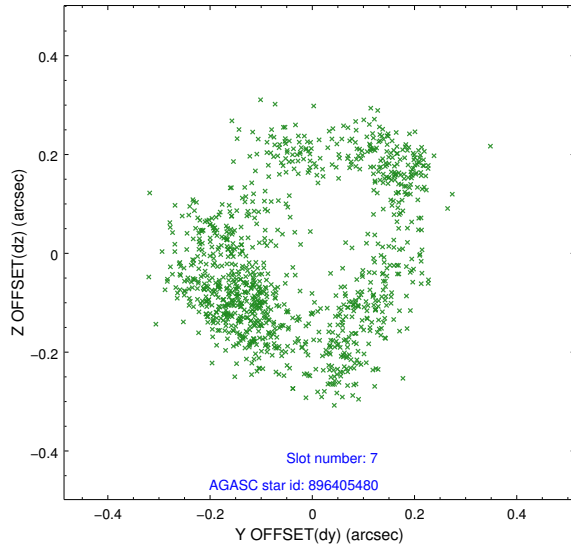
2.4.3 Slot 5



2.4.4 Slot 6

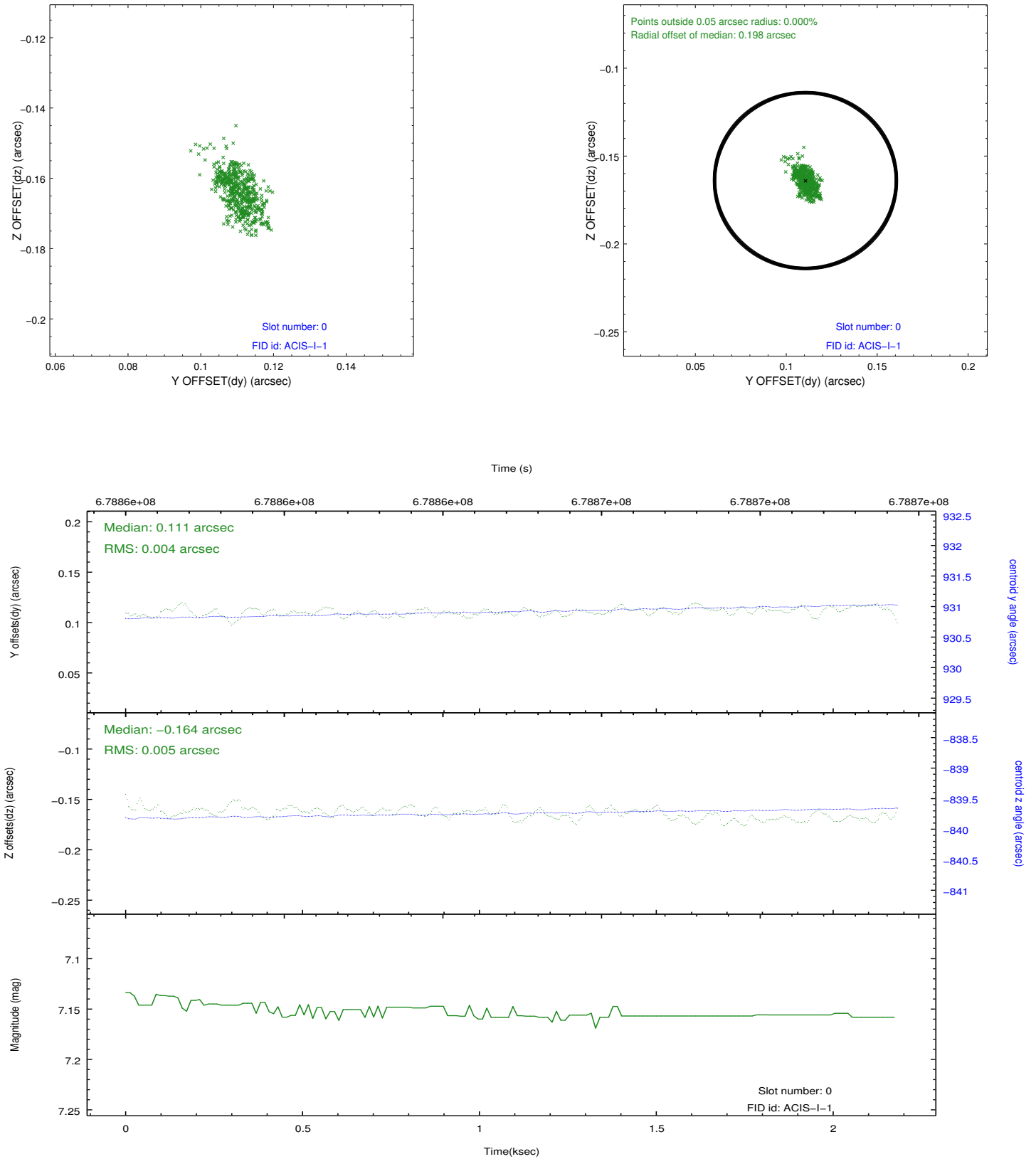


2.4.5 Slot 7

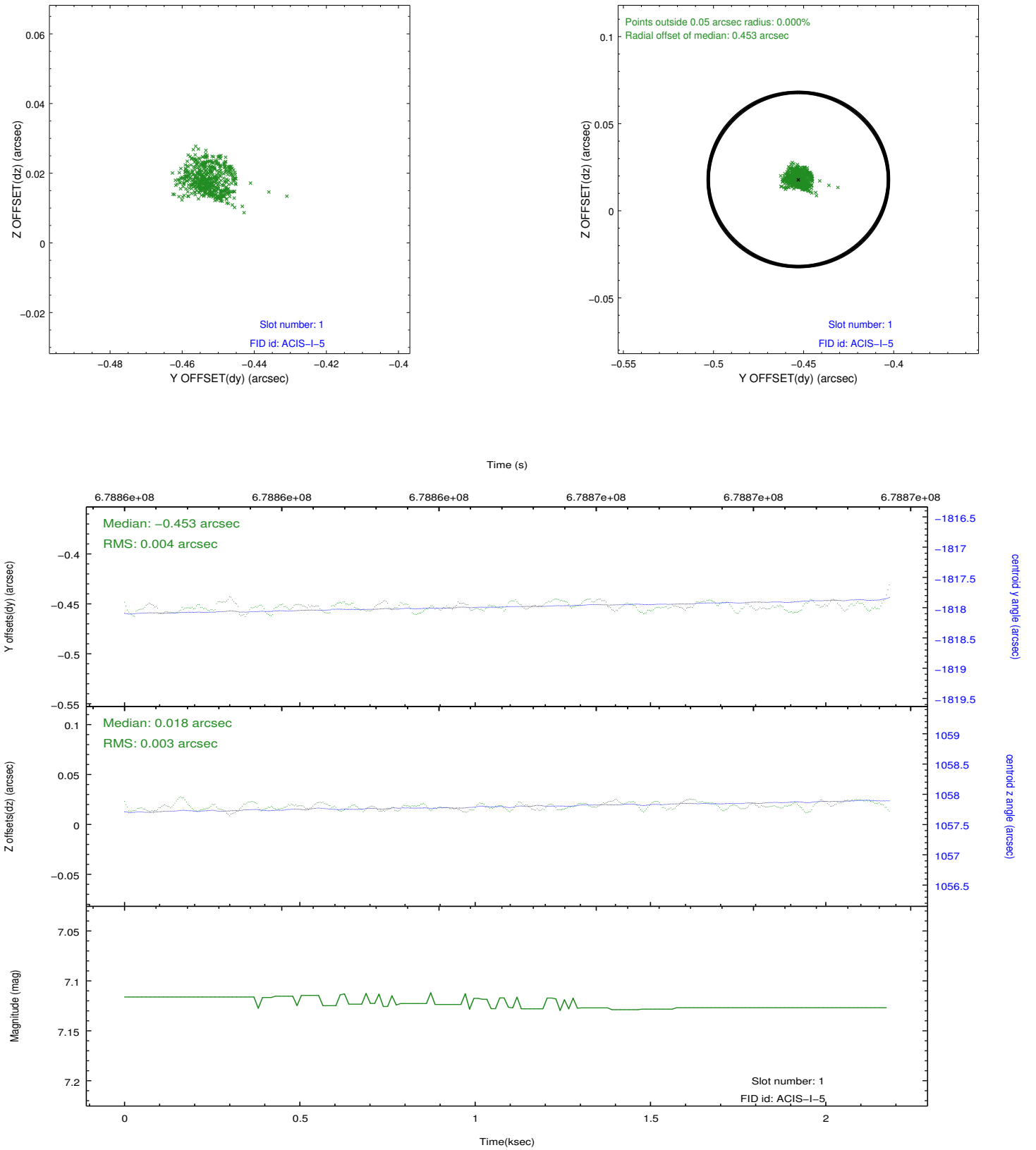


2.5 FID Slots

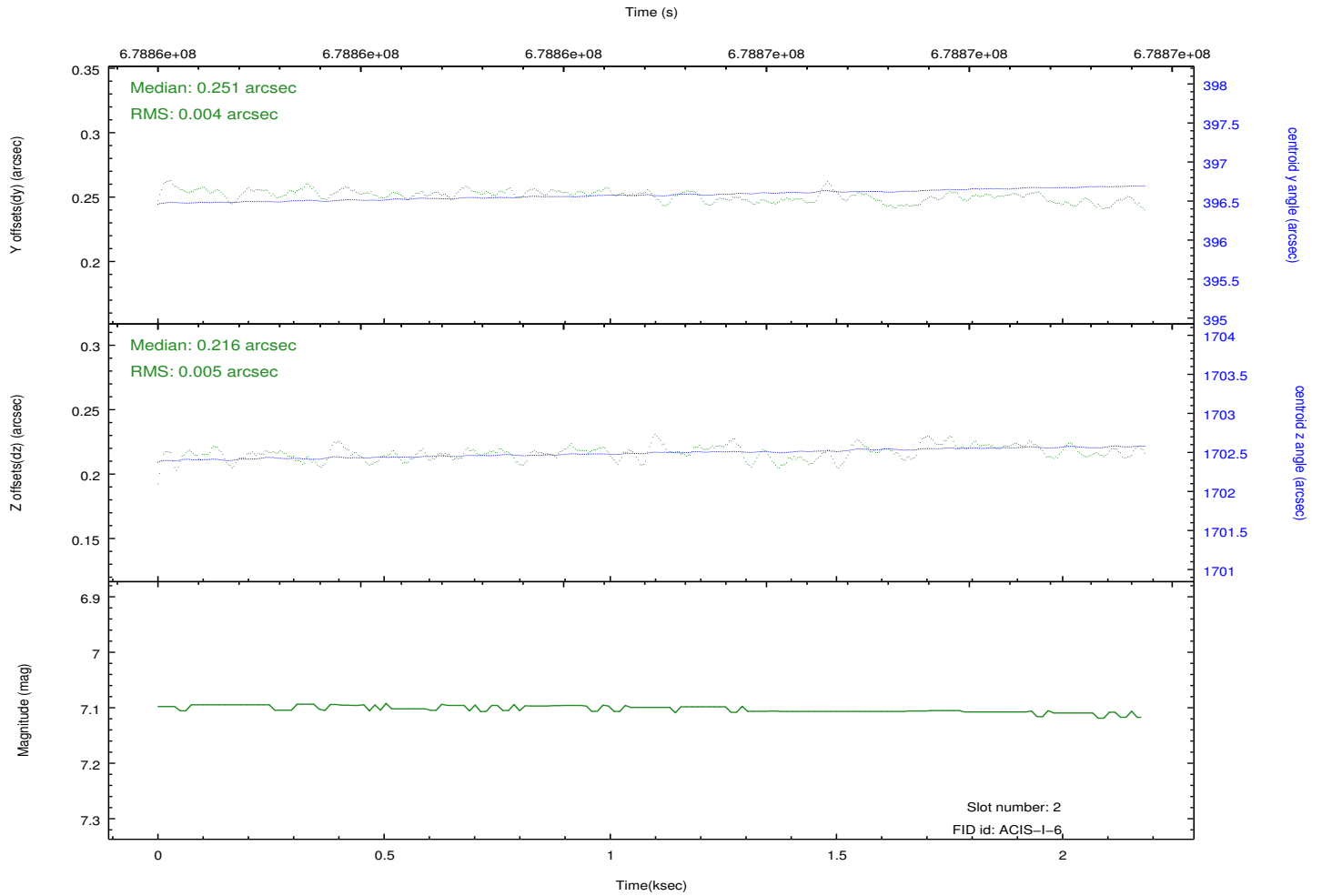
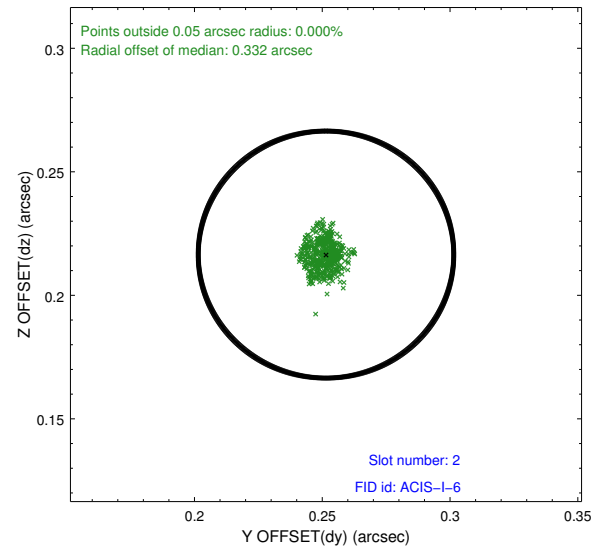
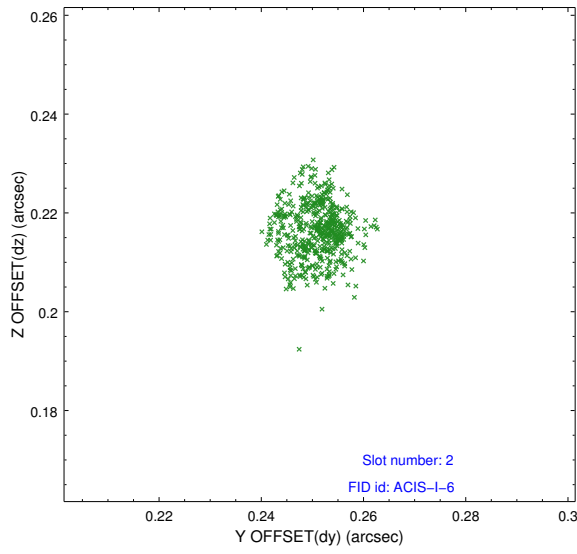
2.5.1 Slot 0



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	1.9085569552183

A.2 Comments