

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21619 - L2 Version 1
Chandra X-Ray Center

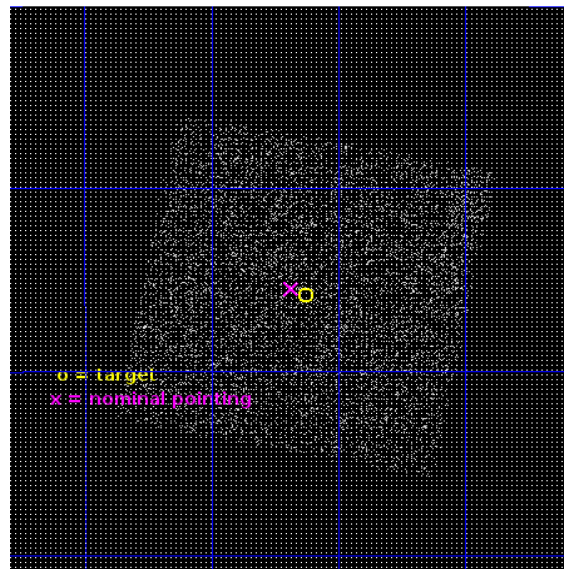
L2 Processing Date : Jul 29 2019

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1 Front

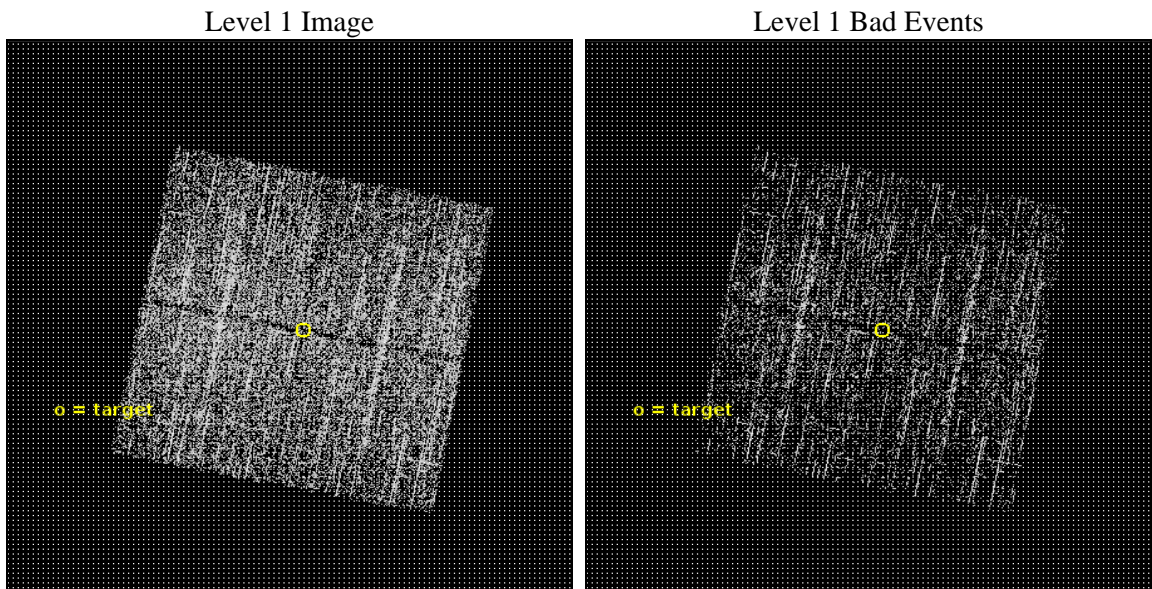
seq_num	300451	Sequence number
obs_id	21619	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.03216	Observer's specified target RA [deg]
dec_targ	-27.764661	Observer's specified target Dec [deg]
ra_nom	266.04614742077	Nominal RA [deg]
dec_nom	-27.758251367345	Nominal Dec [deg]
roll_nom	281.21523231673	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.7025830746	Sum of GTIs [s]
livetime	1883.7639786603	Livetime [s]
ontime0	1908.6615530252	Sum of GTIs [s]
ontime1	1908.7025830746	Sum of GTIs [s]
ontime2	1908.7436231375	Sum of GTIs [s]
ontime3	1908.7846630812	Sum of GTIs [s]
l2events	6131	Number of level 2 events



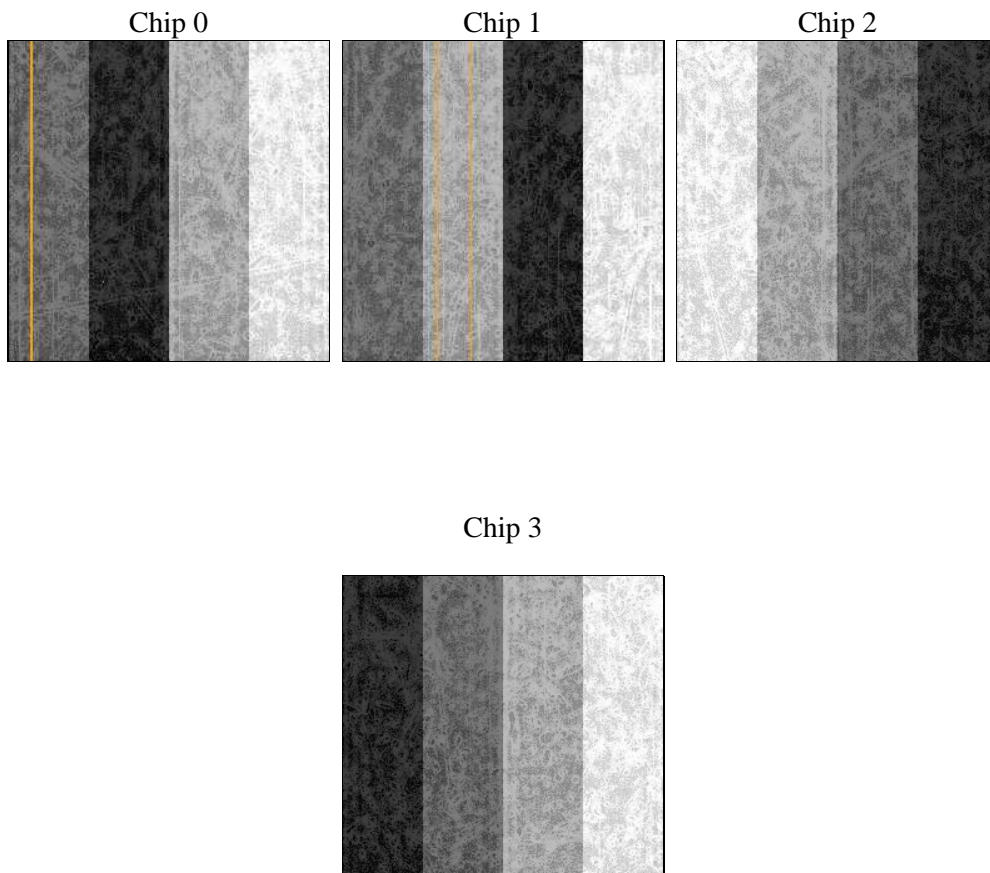
2 OBI

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	1908.7025830746	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.6615530252	Sum of GTIs [s]
date	2019-07-29T04:41:28	Date and time of file creation	ontime1	1908.7025830746	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.7436231375	Sum of GTIs [s]
			ontime3	1908.7846630812	Sum of GTIs [s]
			l1events	58272	Number of level 1 events

2.1.4 Events

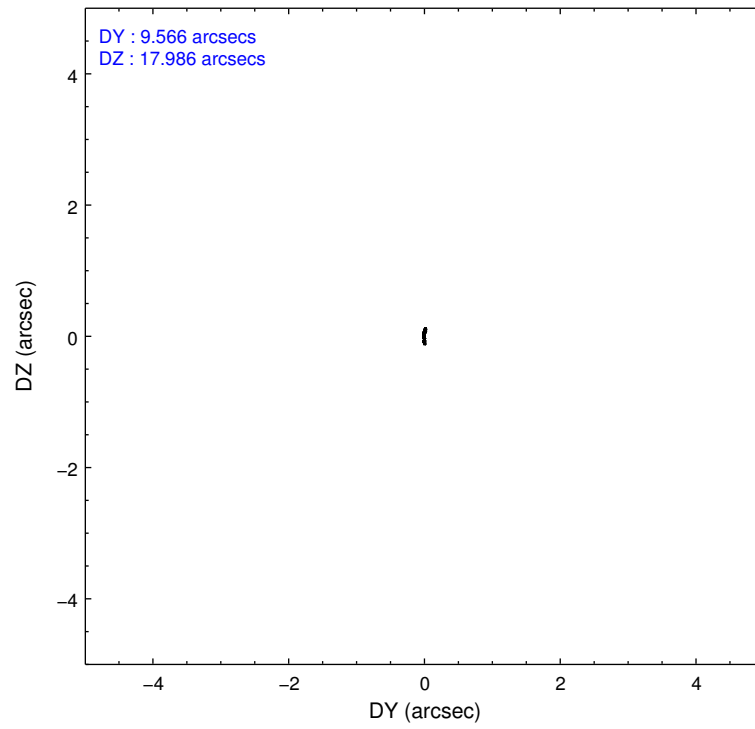
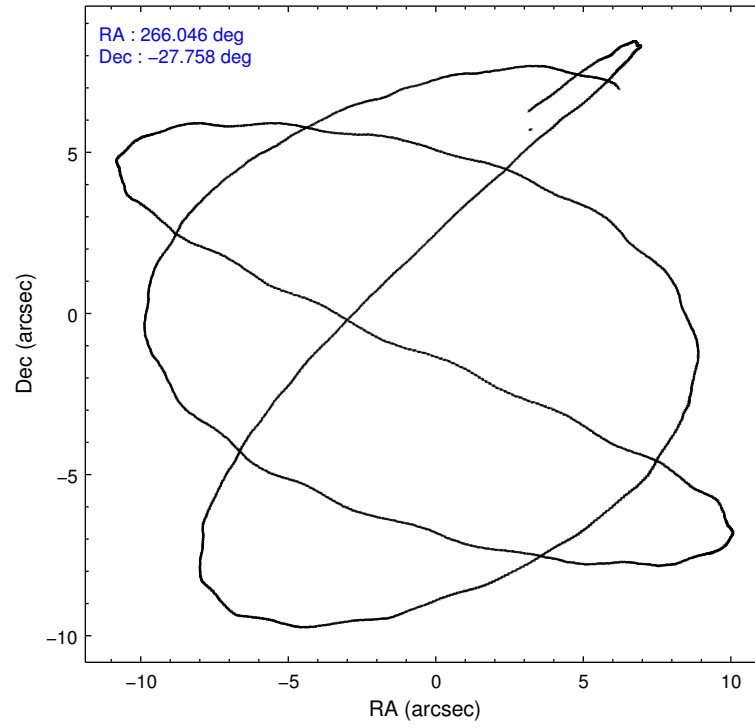
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	14159	13849	15072	15192
rejected events	12298	11836	13353	13580
rejected %	86%	85%	88%	89%

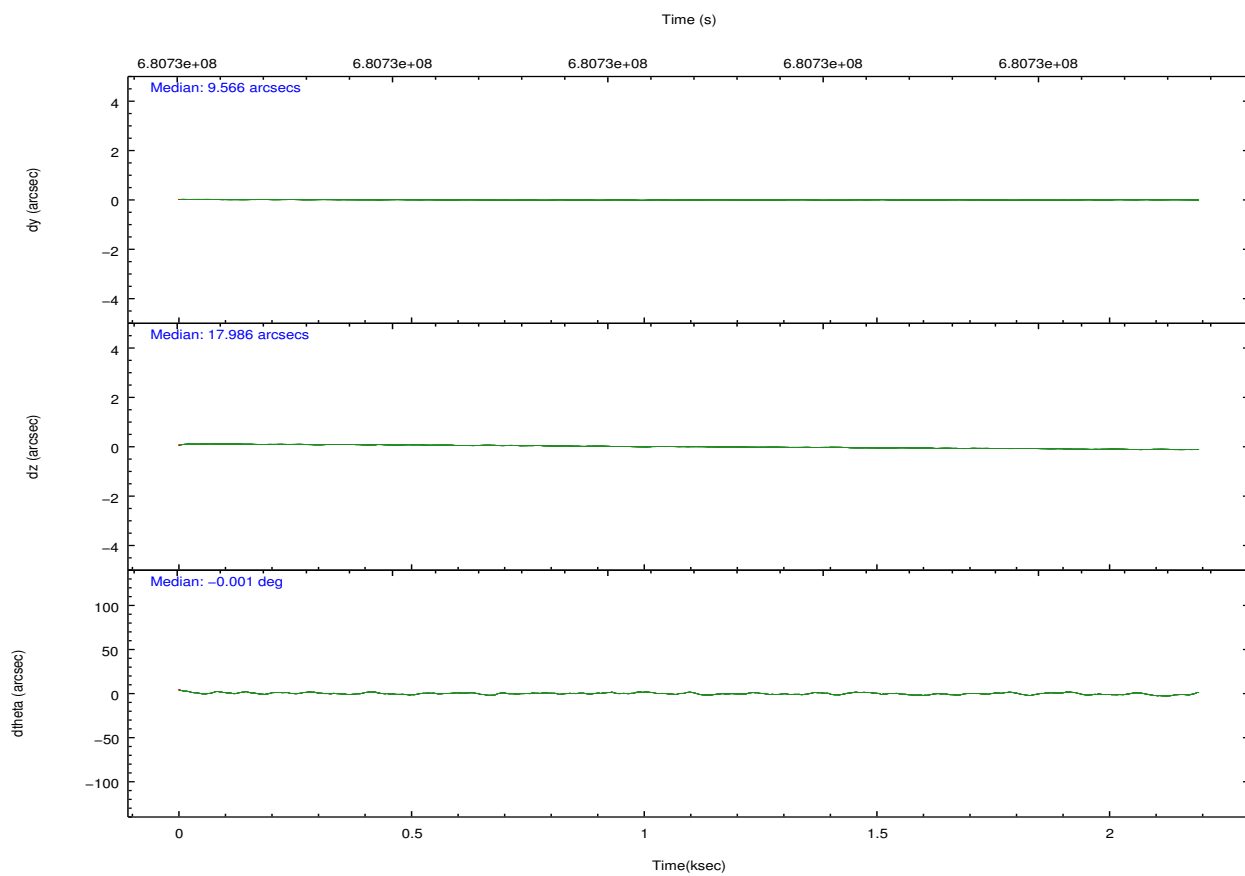
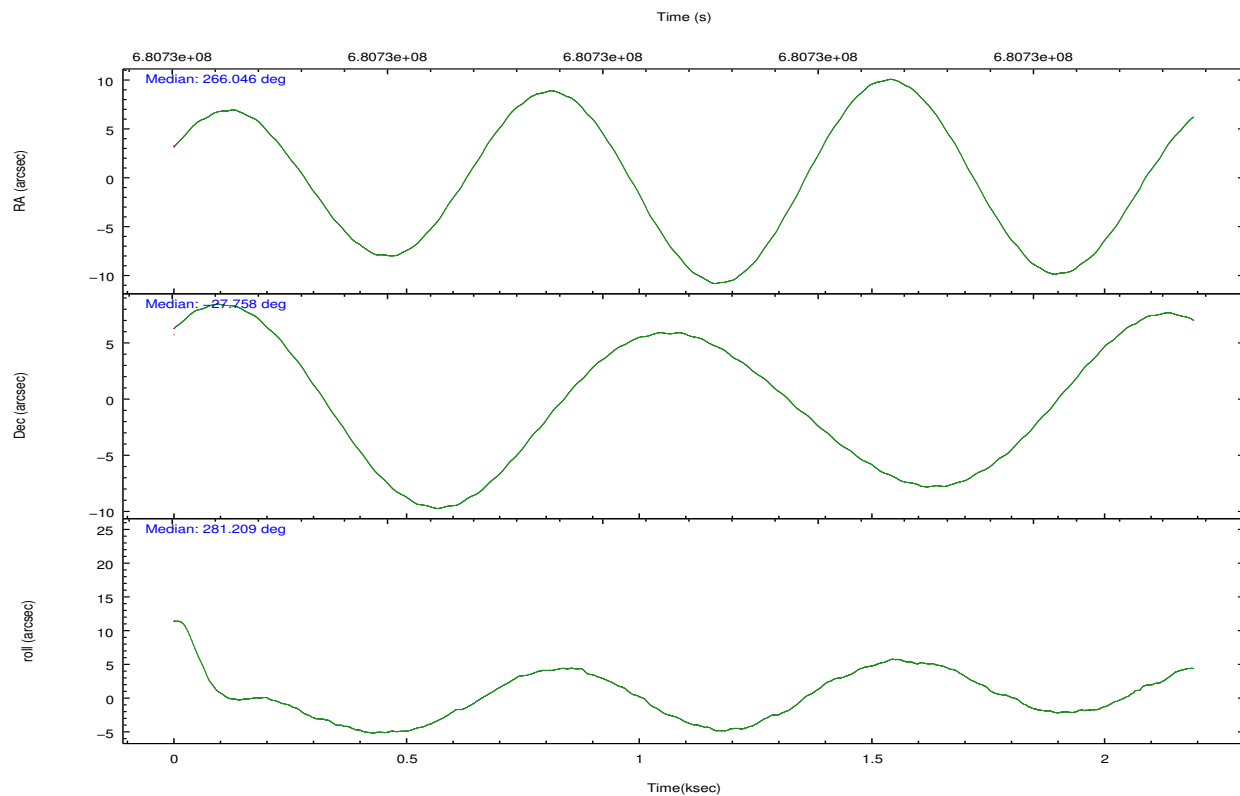
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	668	718	699	611
	4%	5%	4%	4%
grade 1 events	8	10	9	11
	0%	0%	0%	0%
grade 2 events	462	534	351	356
	3%	3%	2%	2%
grade 3 events	209	185	161	159
	1%	1%	1%	1%
grade 4 events	150	160	172	154
	1%	1%	1%	1%
grade 5 events	595	572	576	698
	4%	4%	3%	4%
grade 6 events	378	420	337	333
	2%	3%	2%	2%
grade 7 events	11689	11250	12767	12870
	82%	81%	84%	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	266.025438	266.0461474207652	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.737758	-27.75825136734476	Alternating exposures requested	N	N
[deg] Pointing Roll	280.996875	281.2152323167264	[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)	680725777.184000	680725401.1296			
Observation start date	2019-07-28T18:28:28	2019-07-28T18:23:21			
[s] Observation end time (MET)	680727777.184000	680727910.84225			
Observation end date	2019-07-28T19:01:48	2019-07-28T19:05:10			
Read mode	TIMED	TIMED			

2.3 Aspect



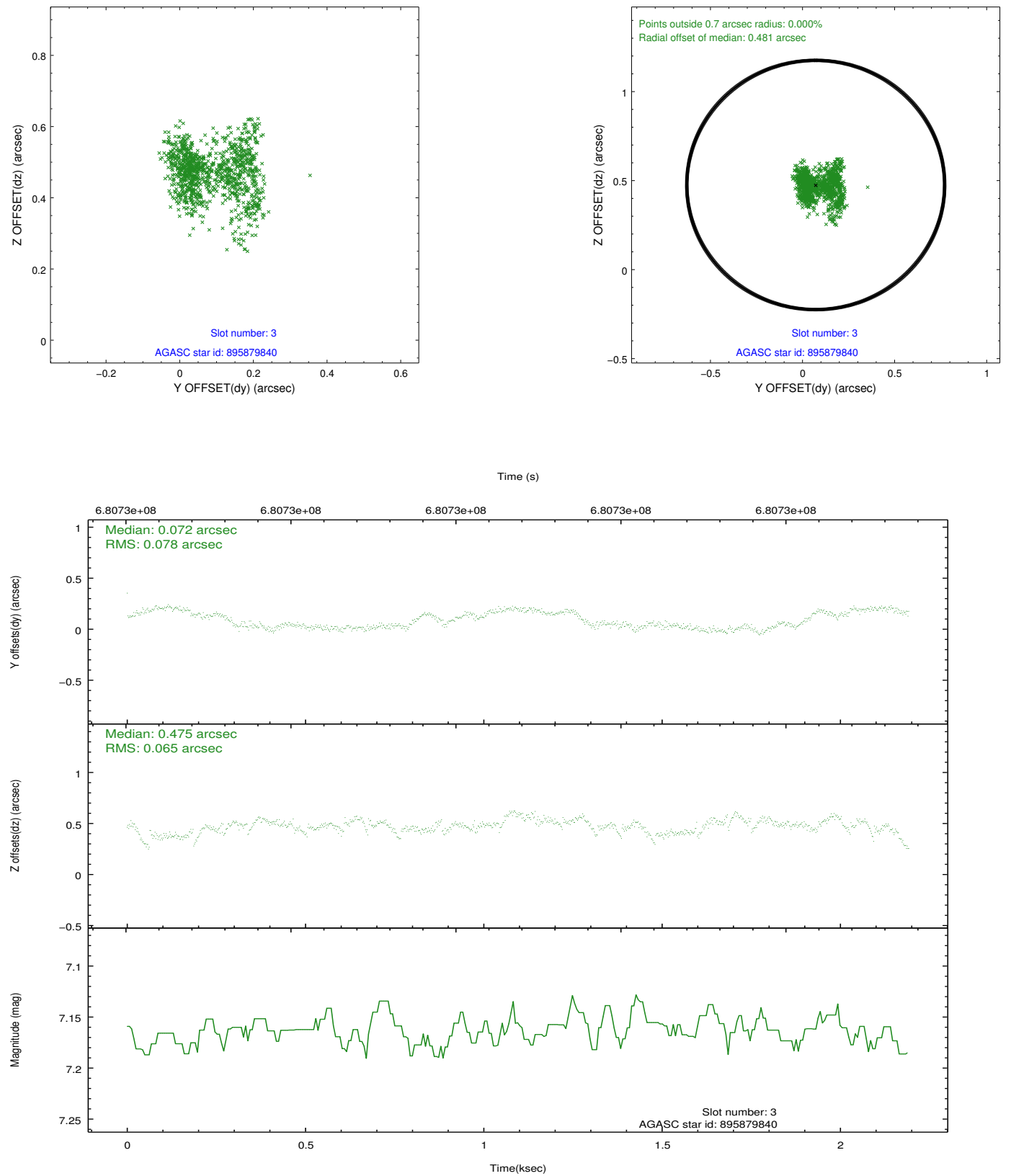


Slot Statistics

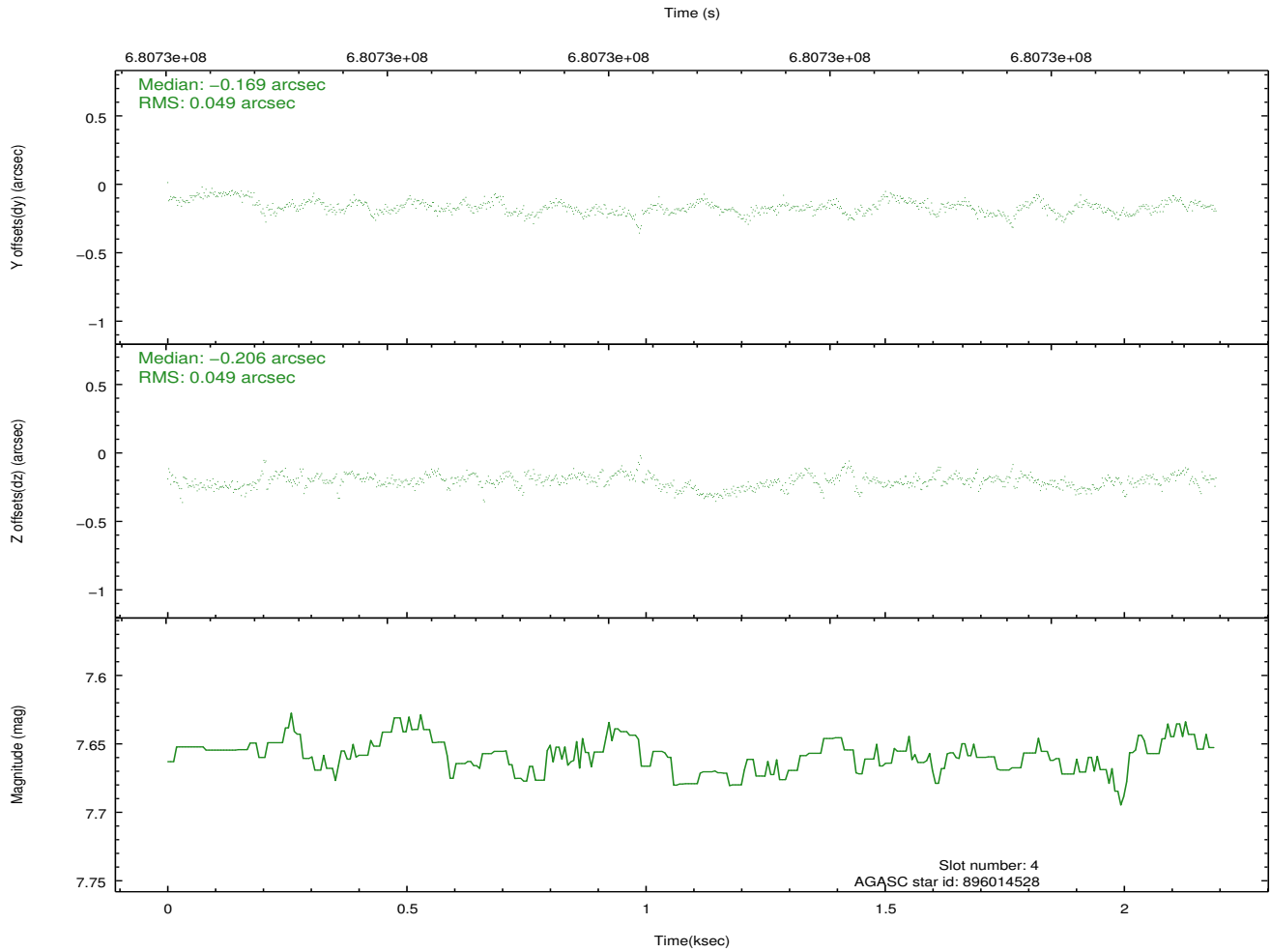
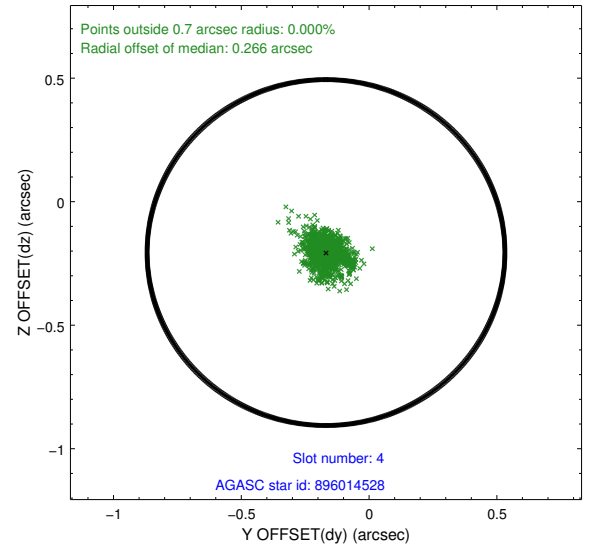
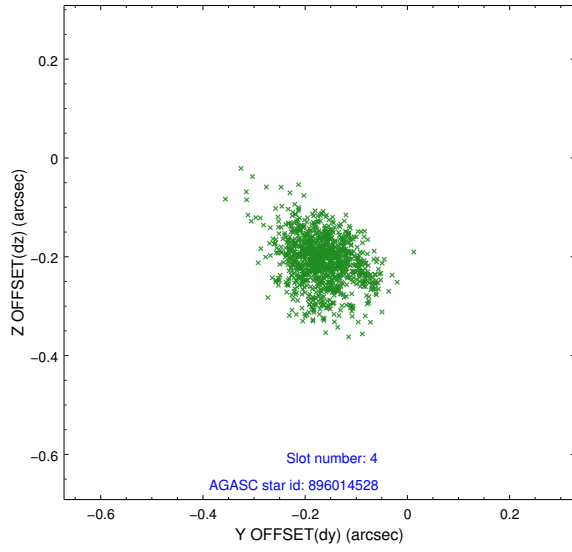
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.26	535	1.000	0.029	-0.048	0.007	0.014	0.000000	0.000000	930.04	-841
1	FID		ACIS-I-2	7.12	535	1.000	-0.506	-0.220	0.006	0.012	0.000000	0.000000	-762.93	-849
2	FID		ACIS-I-4	7.16	535	1.000	0.380	0.336	0.006	0.012	0.000000	0.000000	2148.98	1056
3	GUIDE	used	895879840	7.16	1070	1.000	0.072	0.475	0.106	0.173	265.218397	-27.395778	-1690.88	-2299
4	GUIDE	used	896014528	7.66	1070	1.000	-0.169	-0.206	0.073	0.120	266.628858	-27.438607	-685.81	2094
5	GUIDE	used	896402272	7.57	1070	1.000	0.164	0.034	0.103	0.154	265.637294	-28.313189	1801.46	-1601
6	GUIDE	used	896404568	7.83	1070	1.000	0.210	0.049	0.109	0.175	265.687293	-28.431080	2250.44	-1528
7	GUIDE	used	896538696	6.80	1069	1.000	-0.288	-0.338	0.052	0.090	266.298470	-28.325572	2246.01	443

2.4 Star Slots

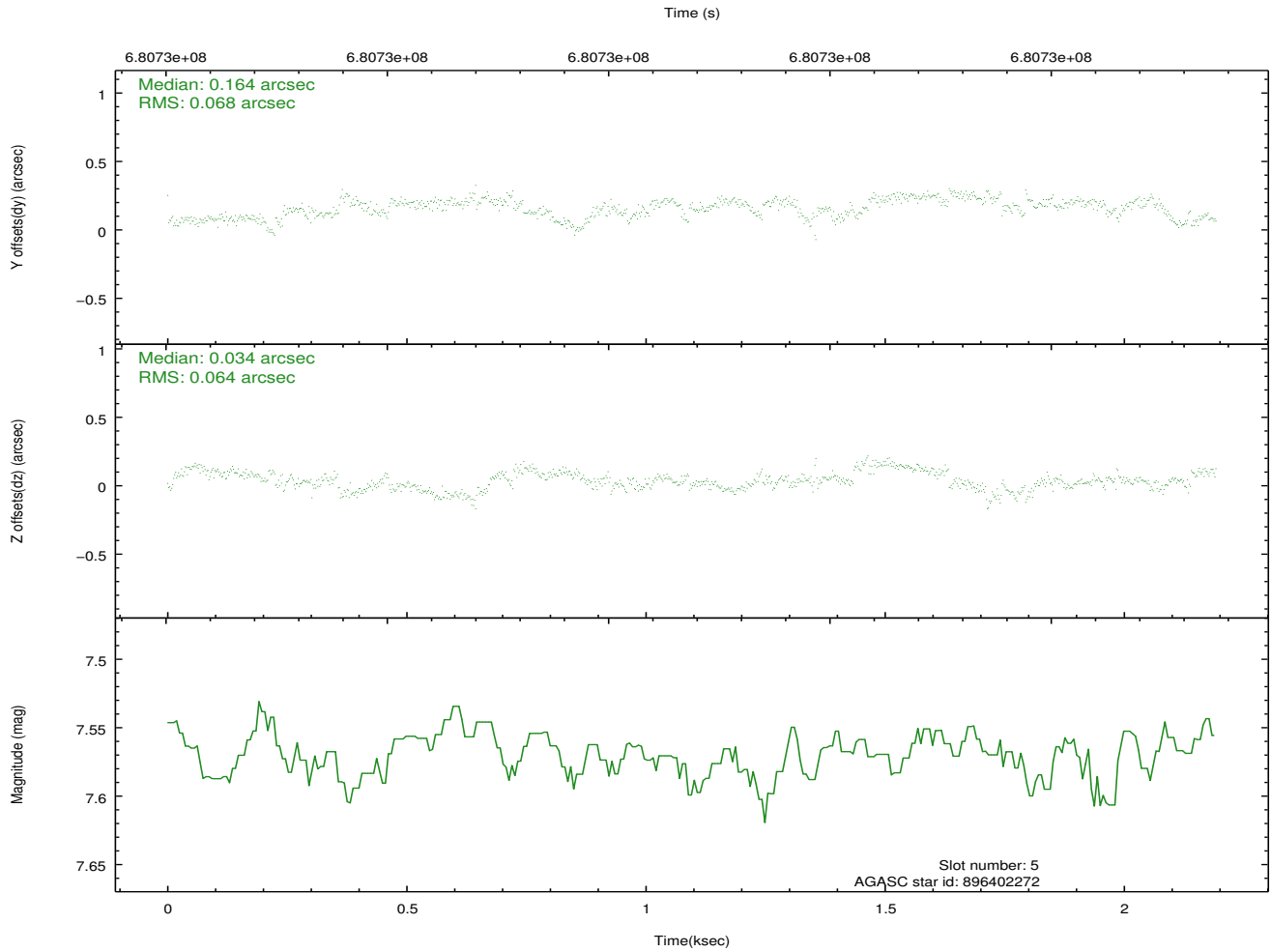
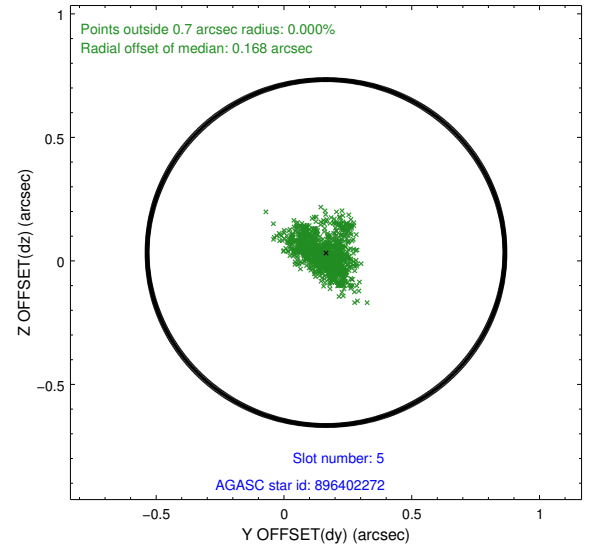
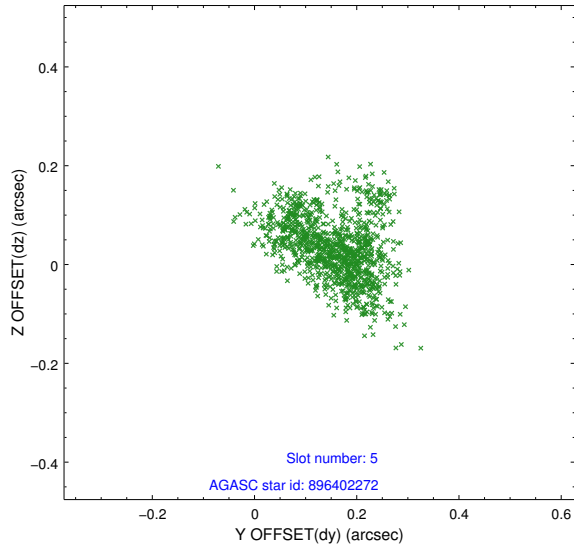
2.4.1 Slot 3



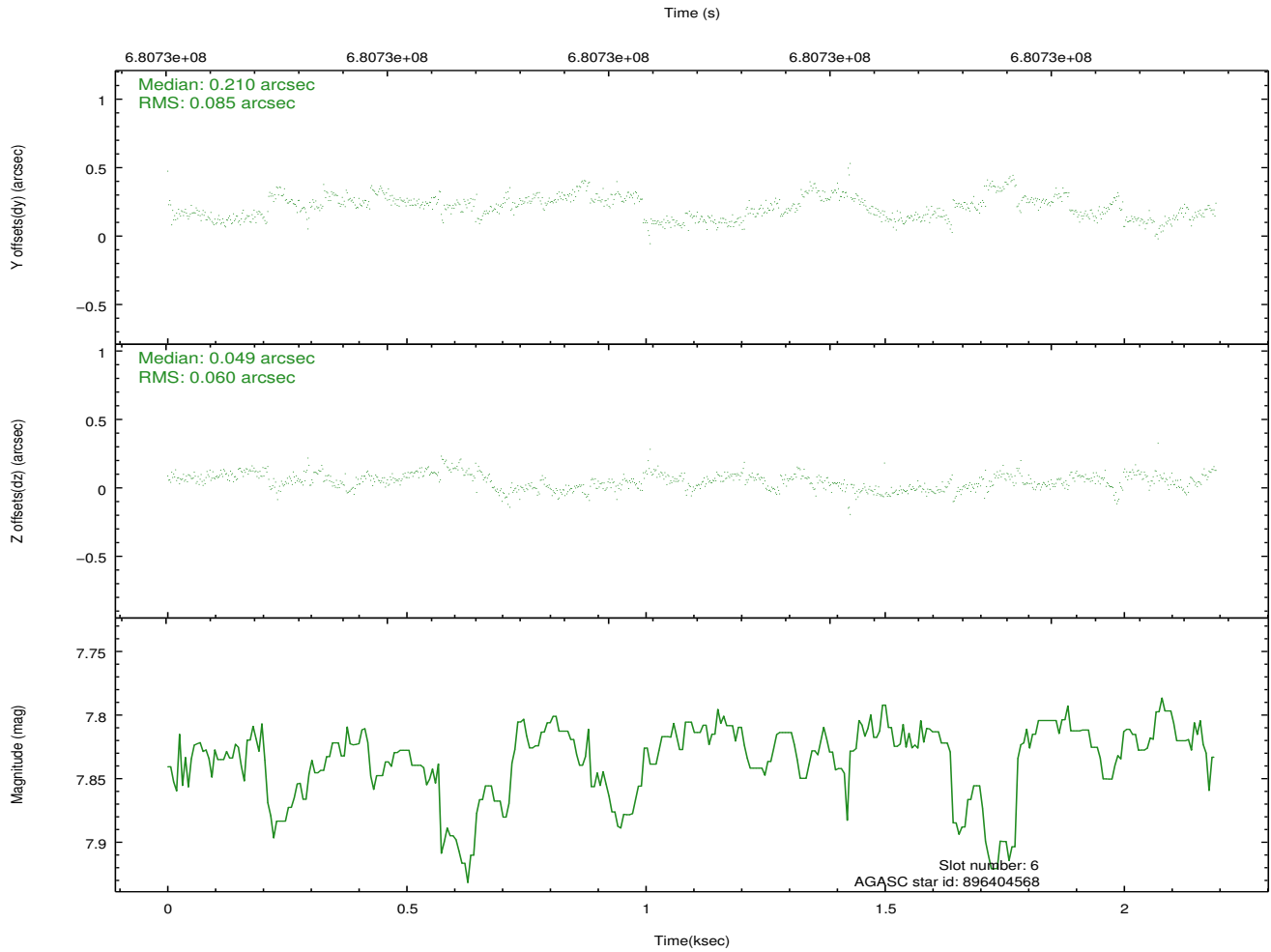
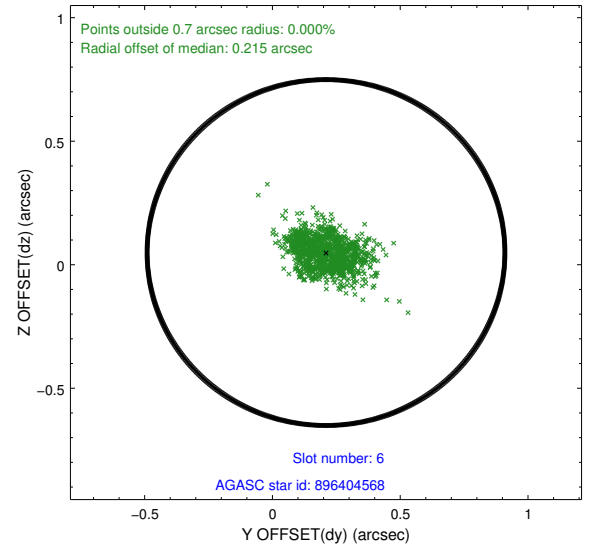
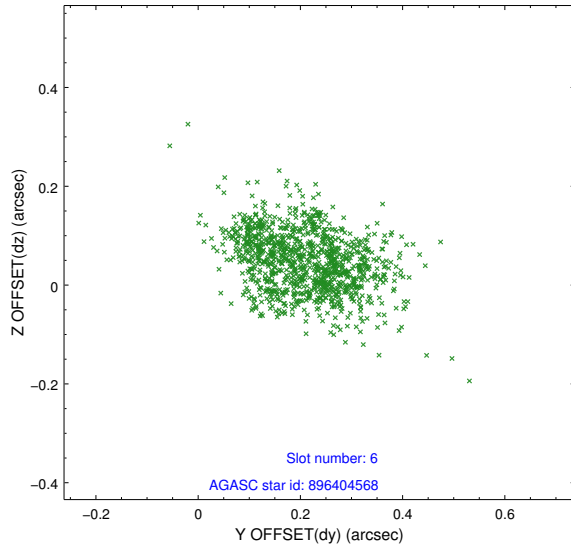
2.4.2 Slot 4



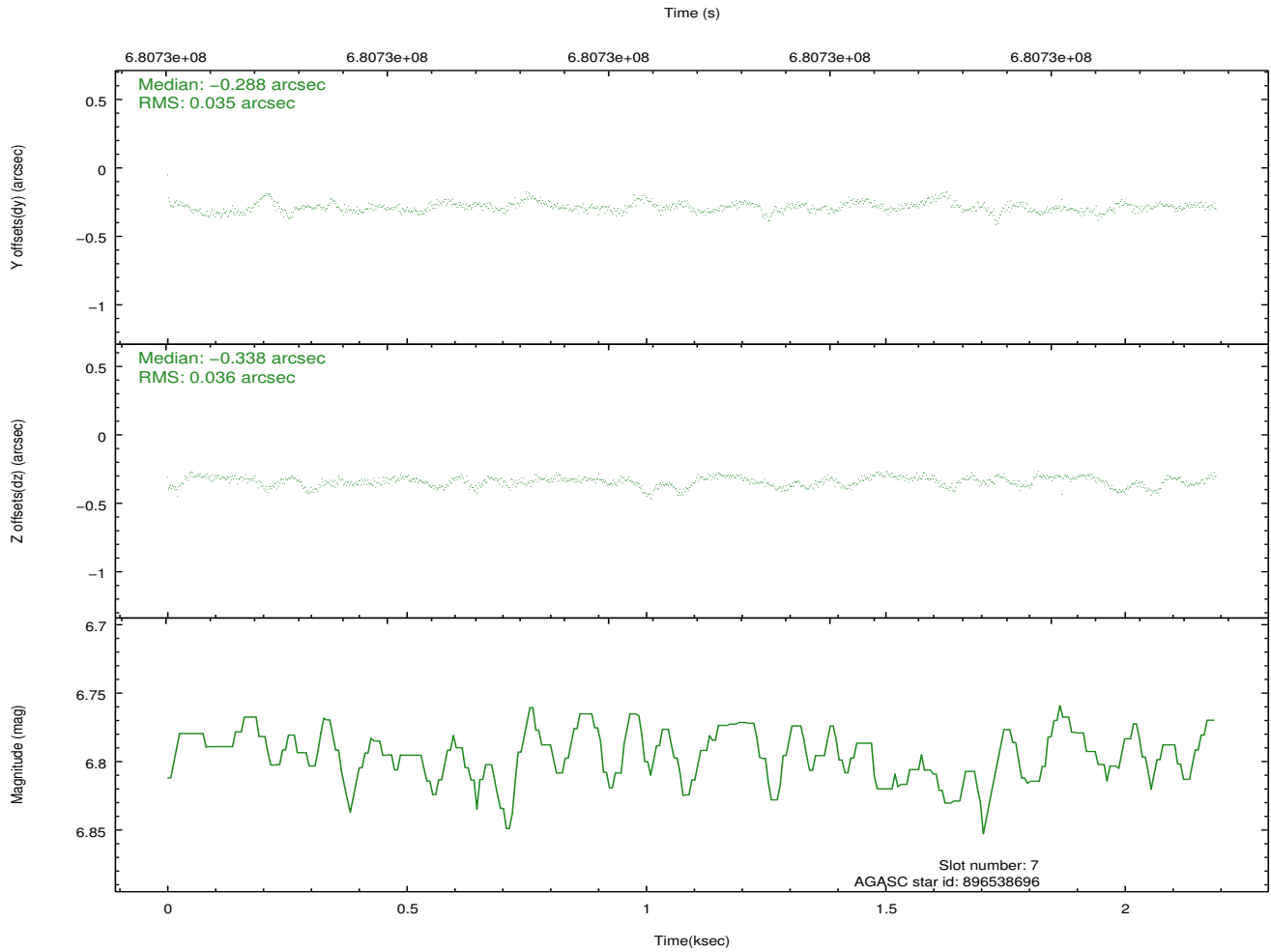
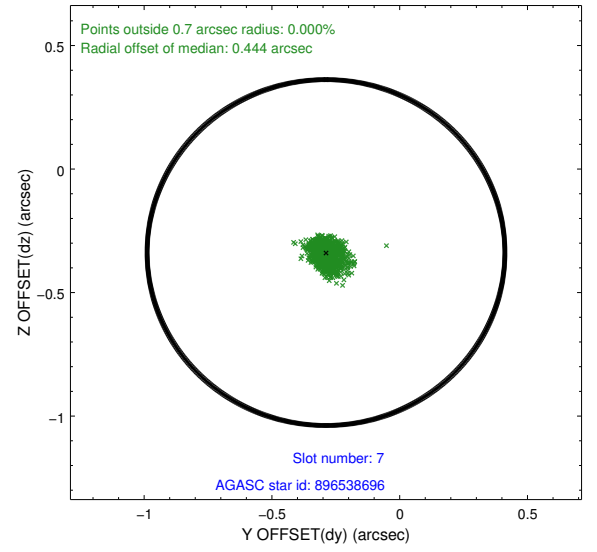
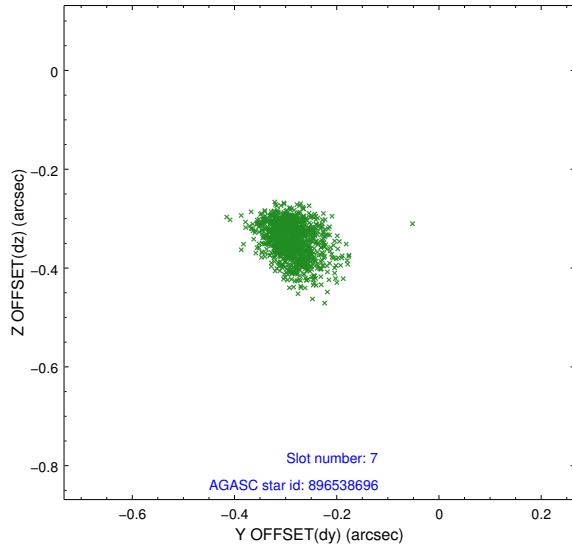
2.4.3 Slot 5



2.4.4 Slot 6

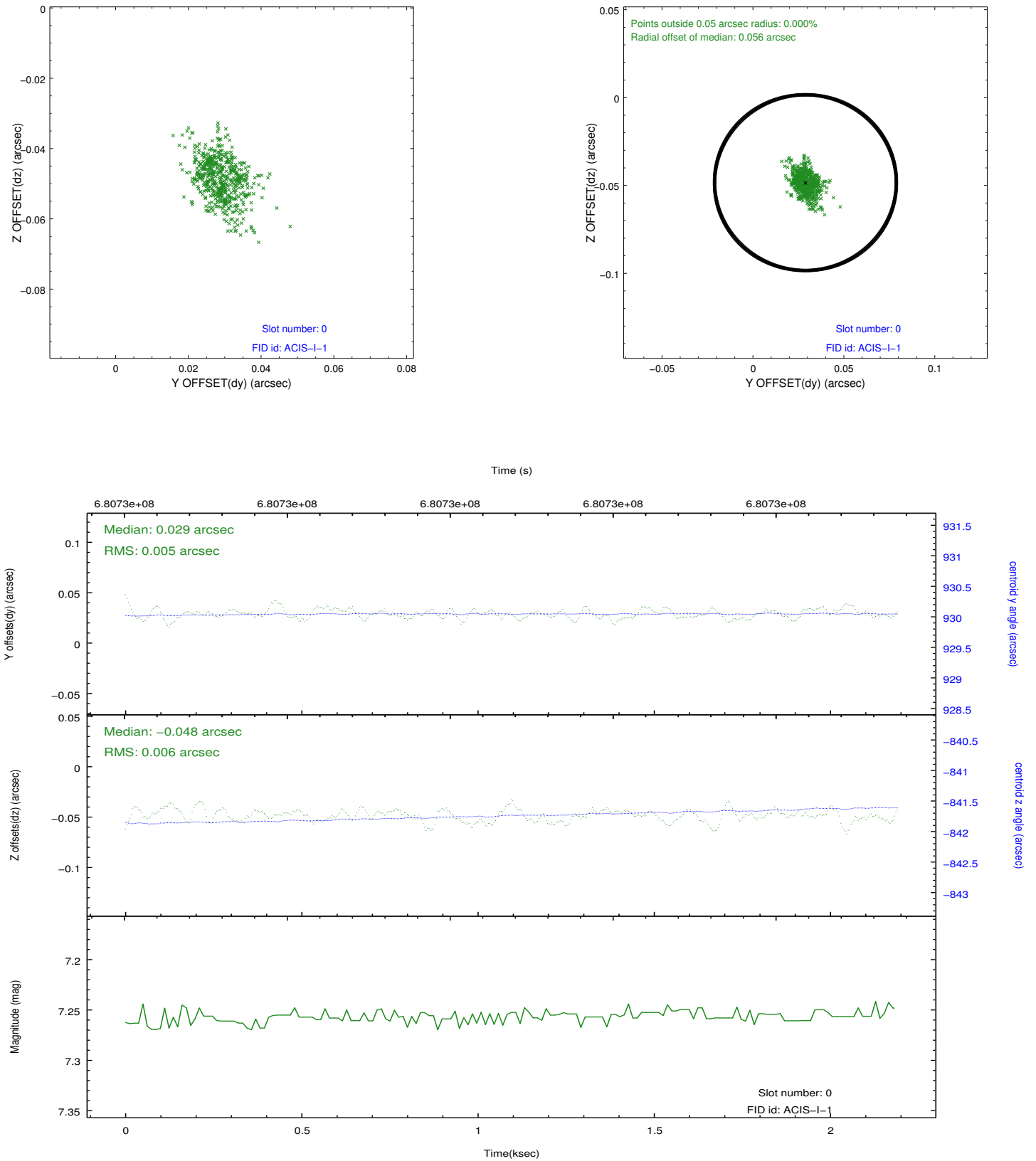


2.4.5 Slot 7

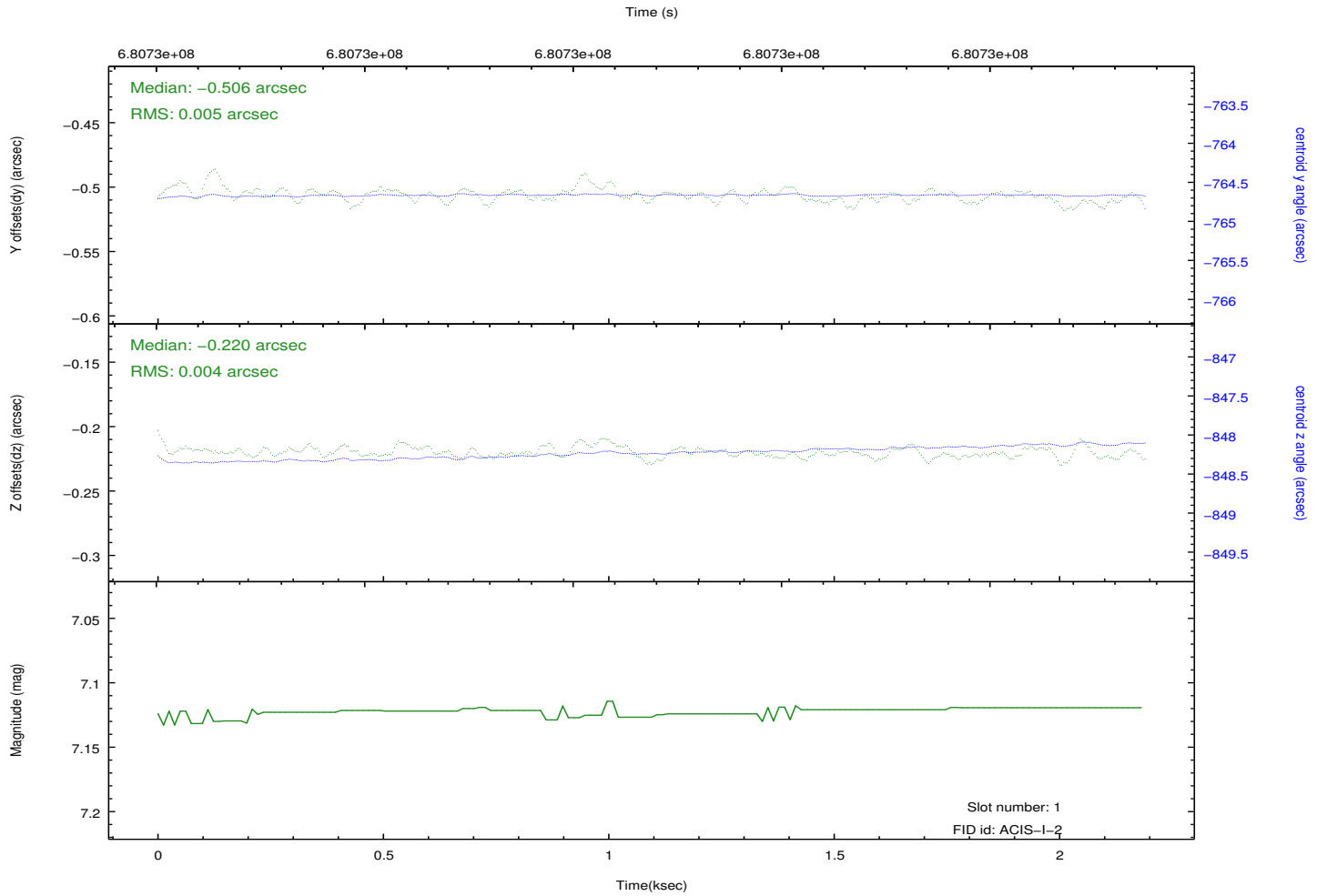
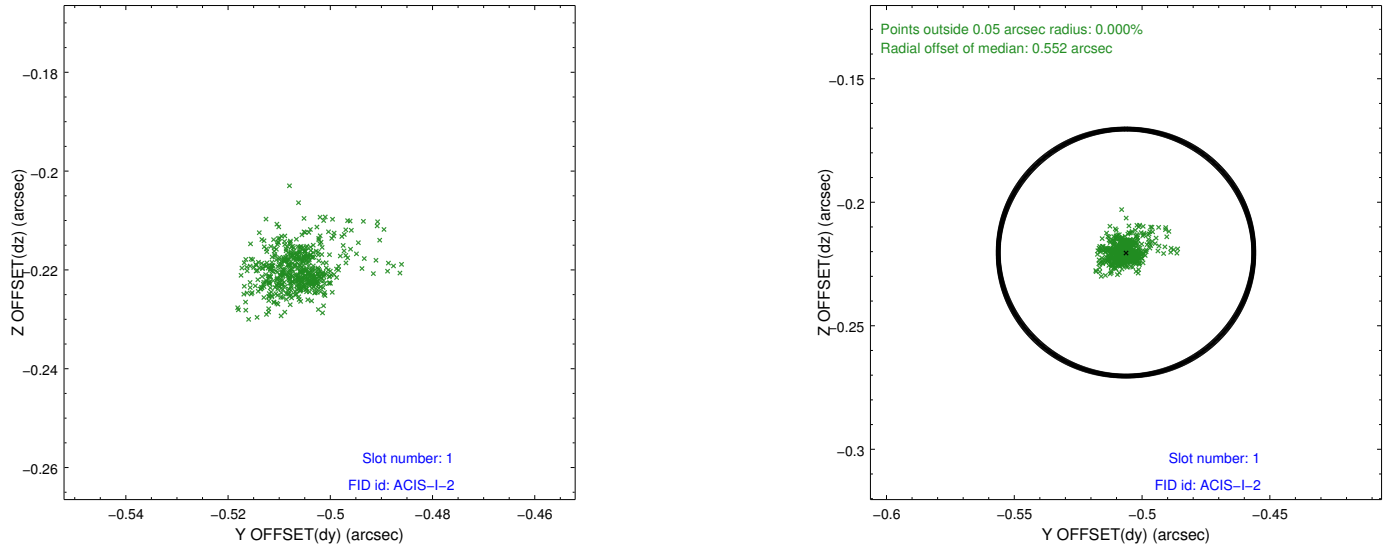


2.5 FID Slots

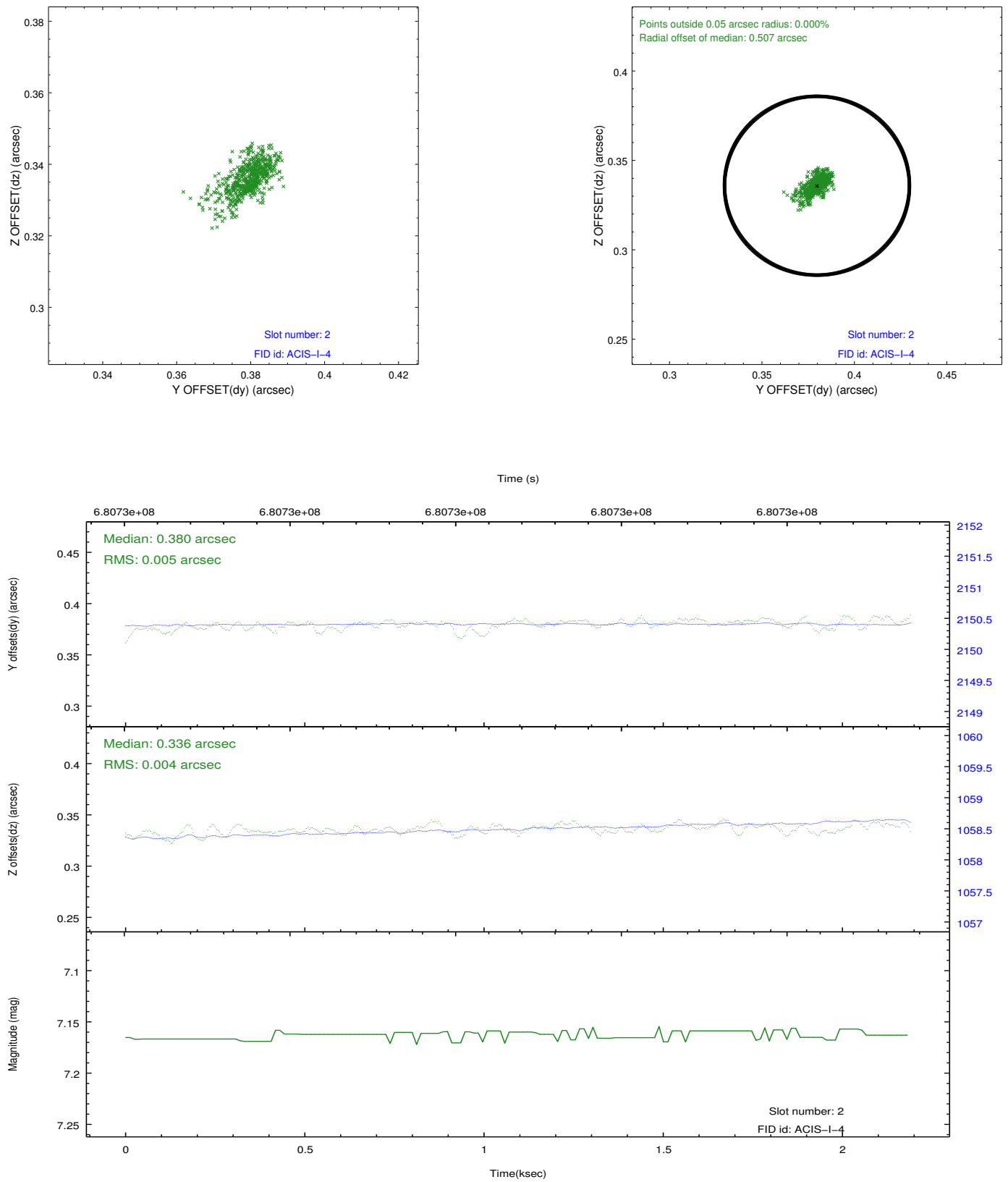
2.5.1 Slot 0



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	1.9087025830746

A.2 Comments