

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21620 - L2 Version 1
Chandra X-Ray Center

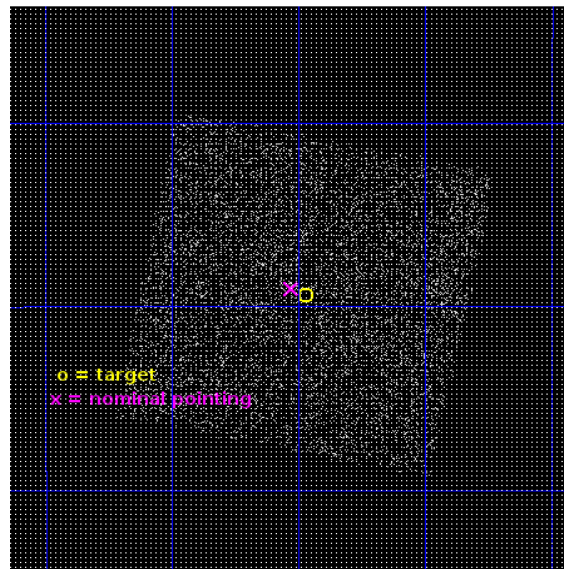
L2 Processing Date : Jul 29 2019

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1 Front

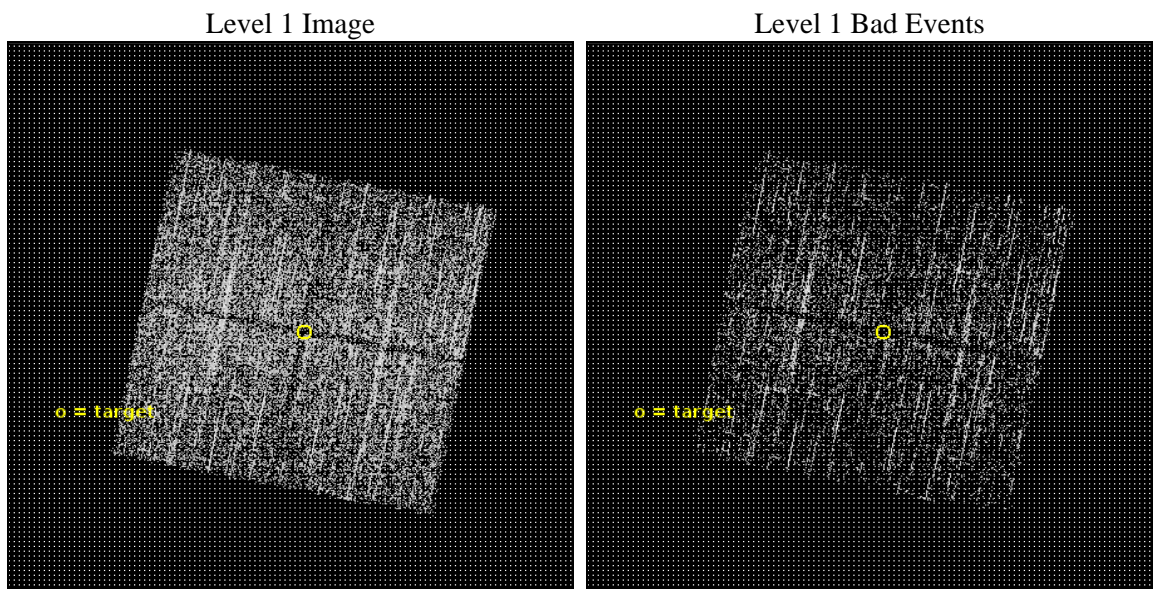
seq_num	300452	Sequence number
obs_id	21620	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.9931	Observer's specified target RA [deg]
dec_targ	-27.989774	Observer's specified target Dec [deg]
ra_nom	266.00708756642	Nominal RA [deg]
dec_nom	-27.983765537876	Nominal Dec [deg]
roll_nom	281.21527665362	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.4429222345	Sum of GTIs [s]
livetime	1883.5077104803	Livetime [s]
ontime0	1908.4018822908	Sum of GTIs [s]
ontime1	1908.4429222345	Sum of GTIs [s]
ontime2	1905.3429319859	Sum of GTIs [s]
ontime3	1908.5250023603	Sum of GTIs [s]
l2events	5892	Number of level 2 events



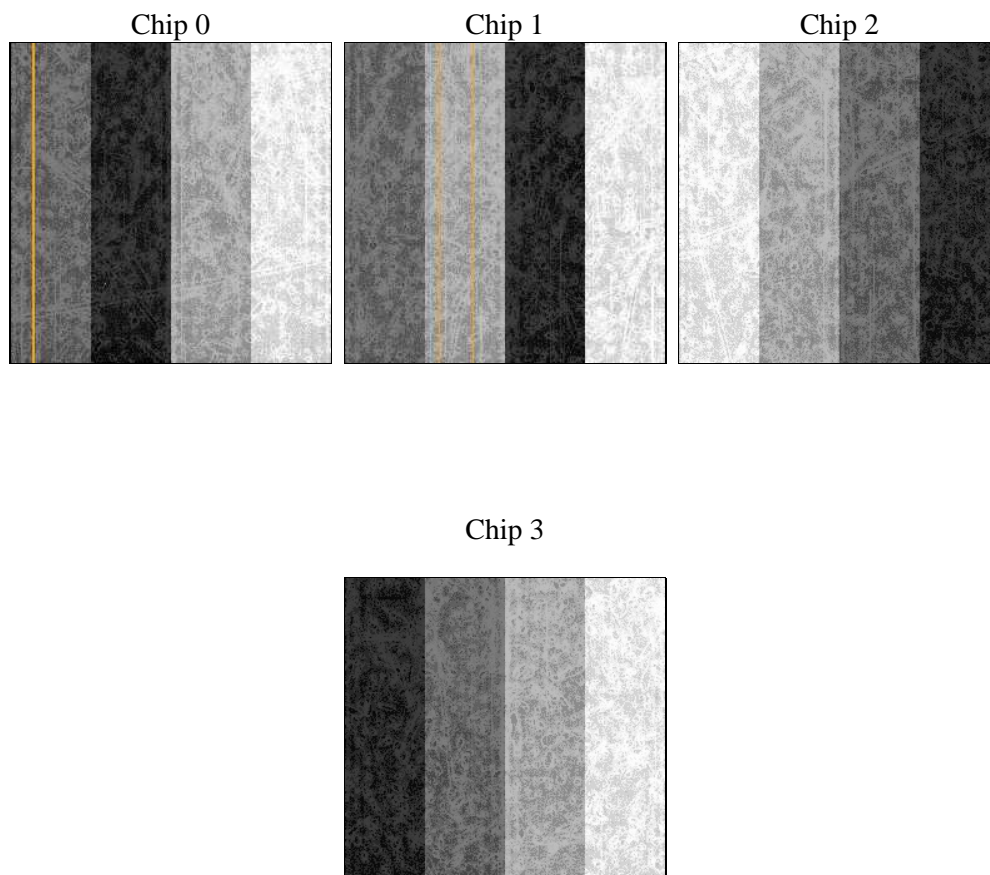
2 OBI

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	1908.4429222345	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.4018822908	Sum of GTIs [s]
date	2019-07-29T04:42:45	Date and time of file creation	ontime1	1908.4429222345	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1905.3429319859	Sum of GTIs [s]
			ontime3	1908.5250023603	Sum of GTIs [s]
			l1events	56461	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13537	14604	14079	14241
rejected events	11759	12677	12401	12606
rejected %	86%	86%	88%	88%

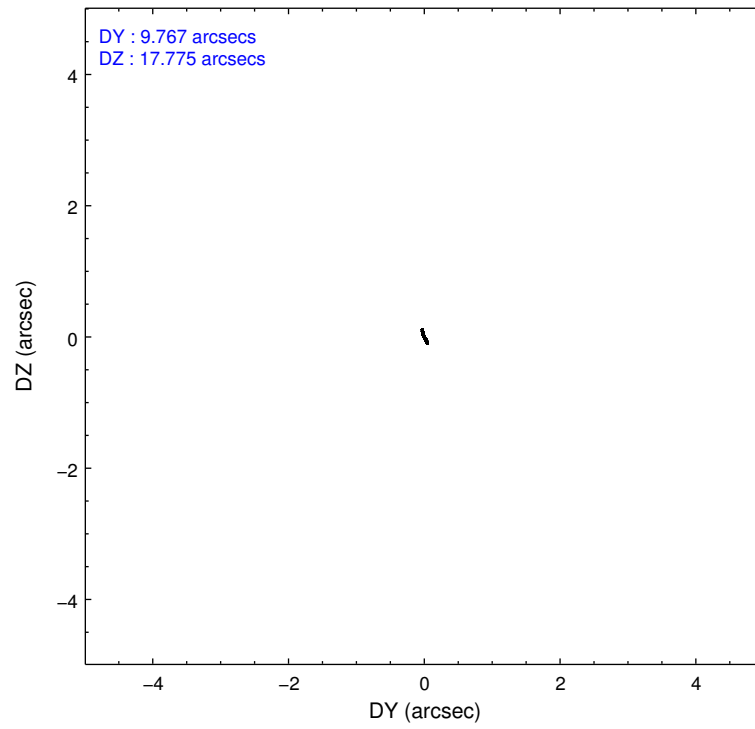
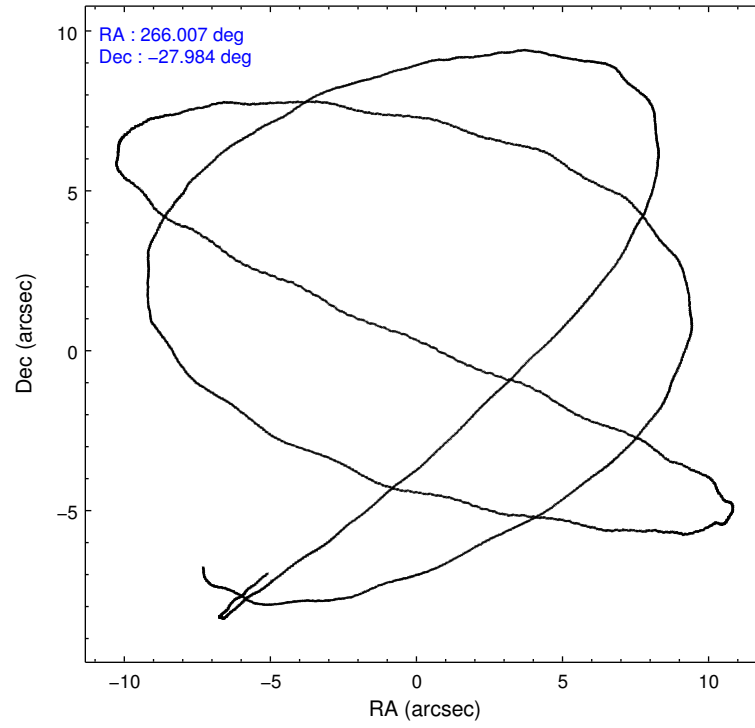
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	645	672	675	607
	4%	4%	4%	4%
grade 1 events	9	6	12	15
	0%	0%	0%	0%
grade 2 events	441	503	378	353
	3%	3%	2%	2%
grade 3 events	170	162	159	170
	1%	1%	1%	1%
grade 4 events	161	153	167	172
	1%	1%	1%	1%
grade 5 events	638	639	585	708
	4%	4%	4%	4%
grade 6 events	363	440	301	335
	2%	3%	2%	2%
grade 7 events	11110	12029	11802	11881
	82%	82%	83%	83%

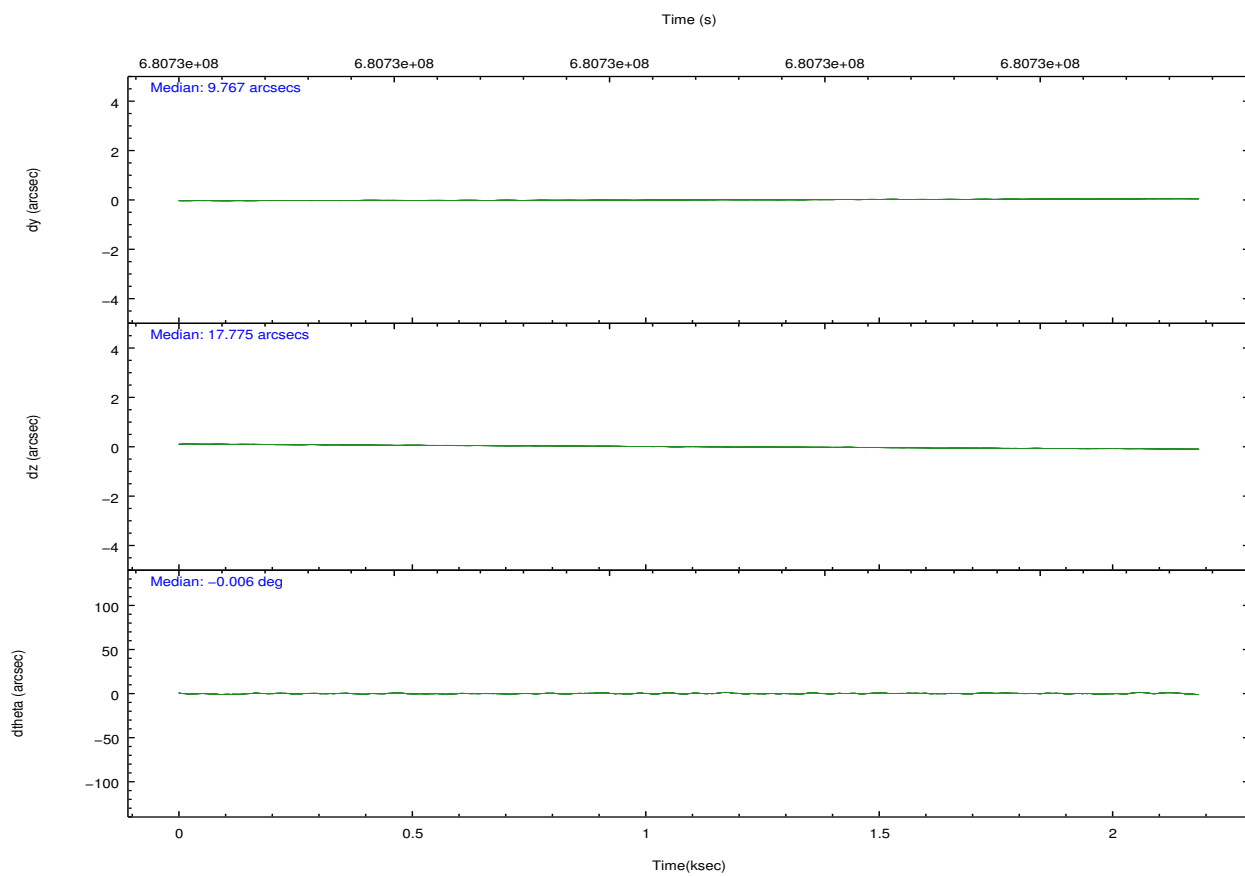
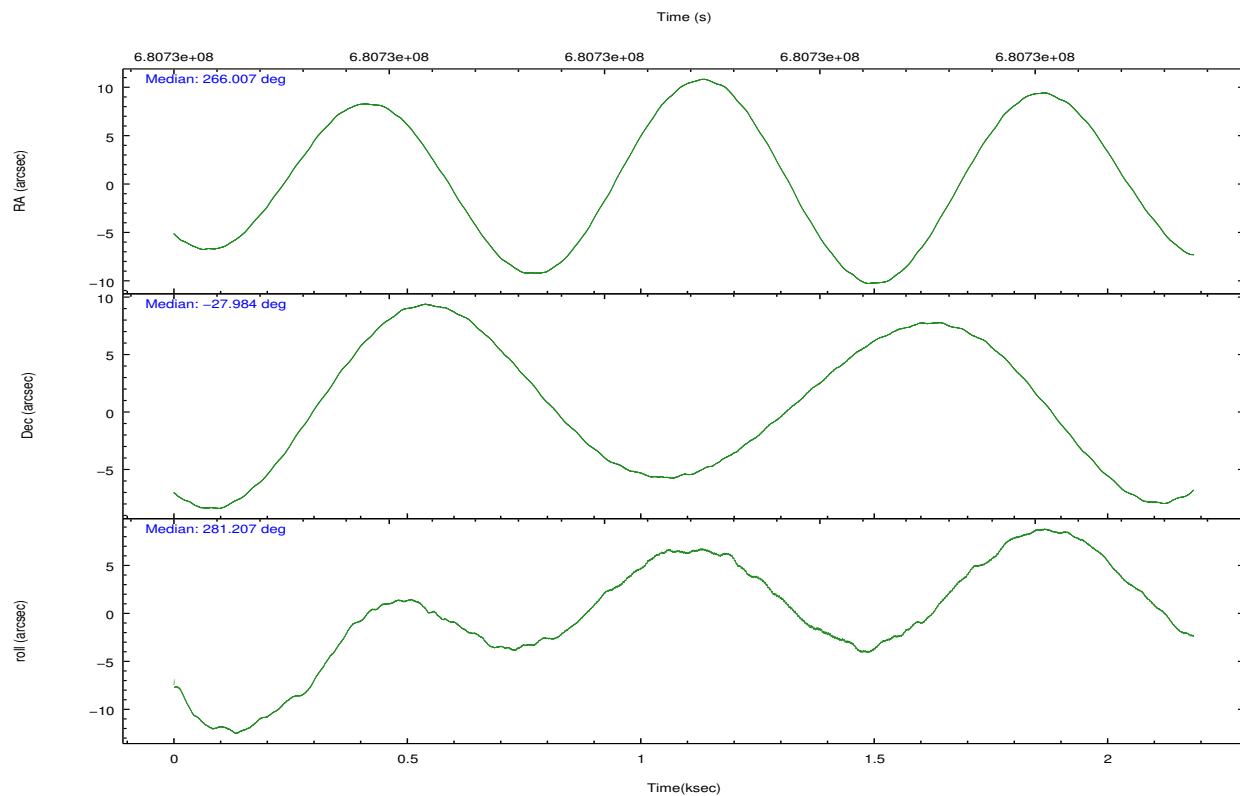
2.2 Compared Parameters

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	265.986379	266.0070875664186
[deg] Pointing Dec	-27.962885	-27.9837655378762
[deg] Pointing Roll	280.996855	281.2152766536192
[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)	680728287.184000	680727910.84225
Observation start date	2019-07-28T19:10:18	2019-07-28T19:05:10
[s] Observation end time (MET)	680730287.184000	680730420.5549001
Observation end date	2019-07-28T19:43:38	2019-07-28T19:47:00
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



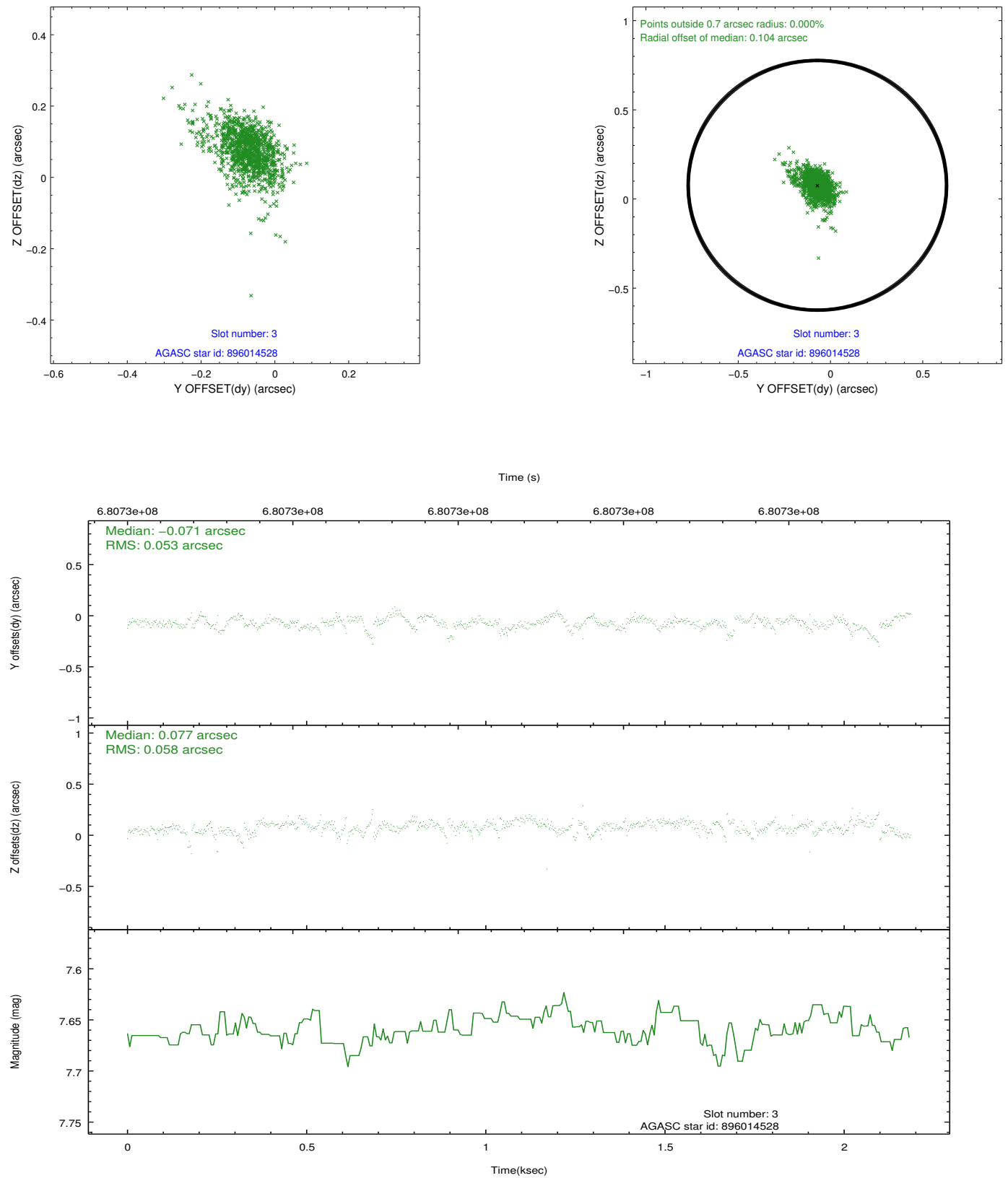


Slot Statistics

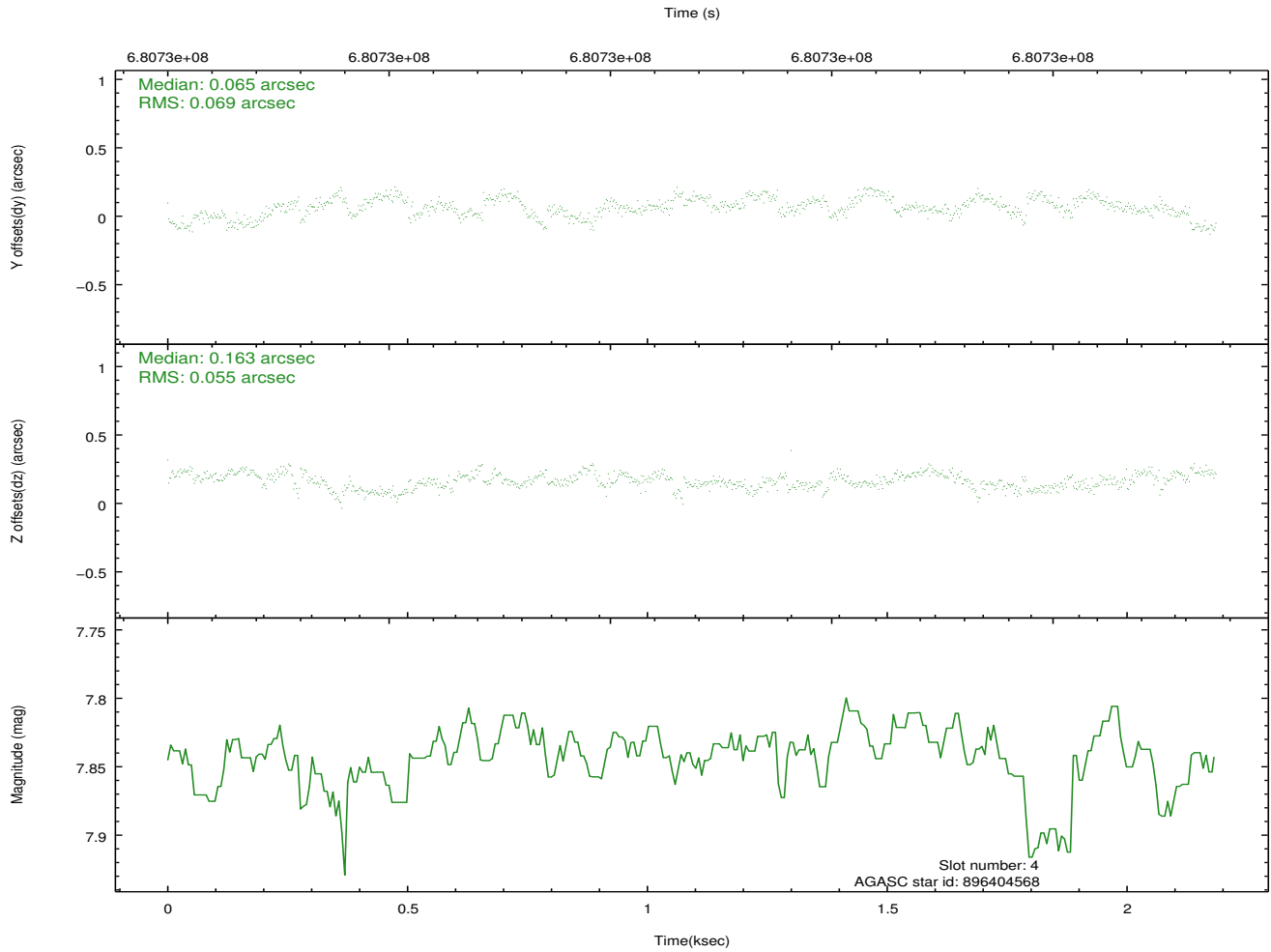
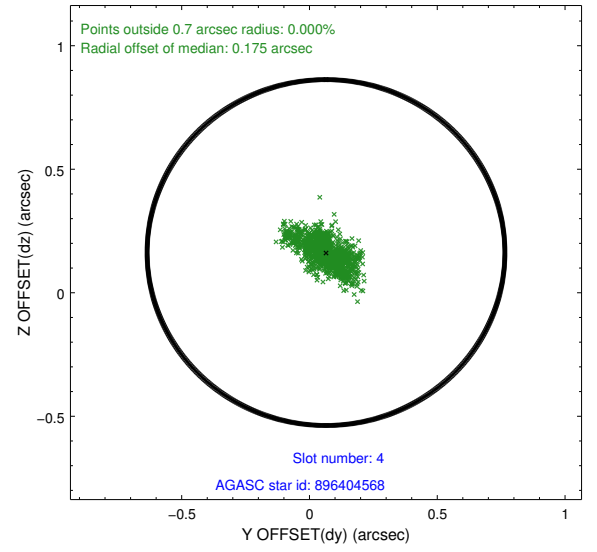
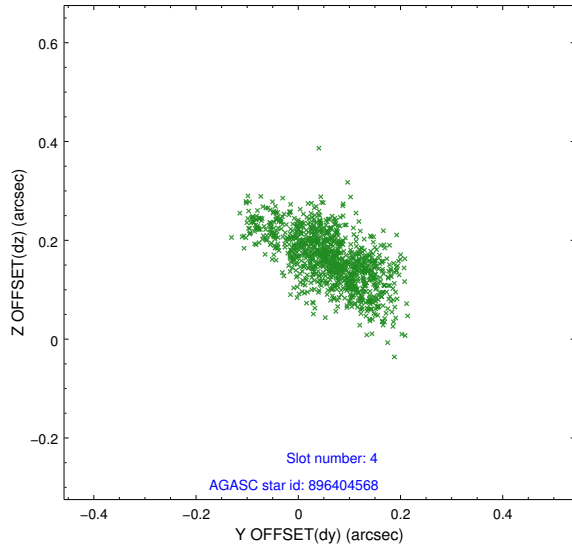
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	533	1.000	0.117	-0.086	0.009	0.014	0.000000	0.000000	930.02	-841
1	FID		ACIS-I-5	7.23	533	1.000	-0.457	0.043	0.006	0.011	0.000000	0.000000	-1817.16	1054
2	FID		ACIS-I-6	7.21	533	1.000	0.249	0.113	0.009	0.015	0.000000	0.000000	392.25	1702
3	GUIDE	used	896014528	7.66	1067	1.000	-0.071	0.077	0.075	0.141	266.628858	-27.438607	-1456.82	2374
4	GUIDE	used	896404568	7.84	1067	1.000	0.065	0.163	0.091	0.161	265.687293	-28.431080	1473.56	-1248
5	GUIDE	used	896534664	8.16	1066	1.000	0.056	-0.216	0.077	0.123	266.405570	-28.407461	1828.38	996
6	GUIDE	used	896538696	6.77	1067	1.000	-0.171	-0.253	0.064	0.103	266.298470	-28.325572	1472.62	722
7	GUIDE	used	896402656	8.79	1066	1.000	0.118	0.228	0.107	0.183	265.739192	-28.230753	799.09	-952

2.4 Star Slots

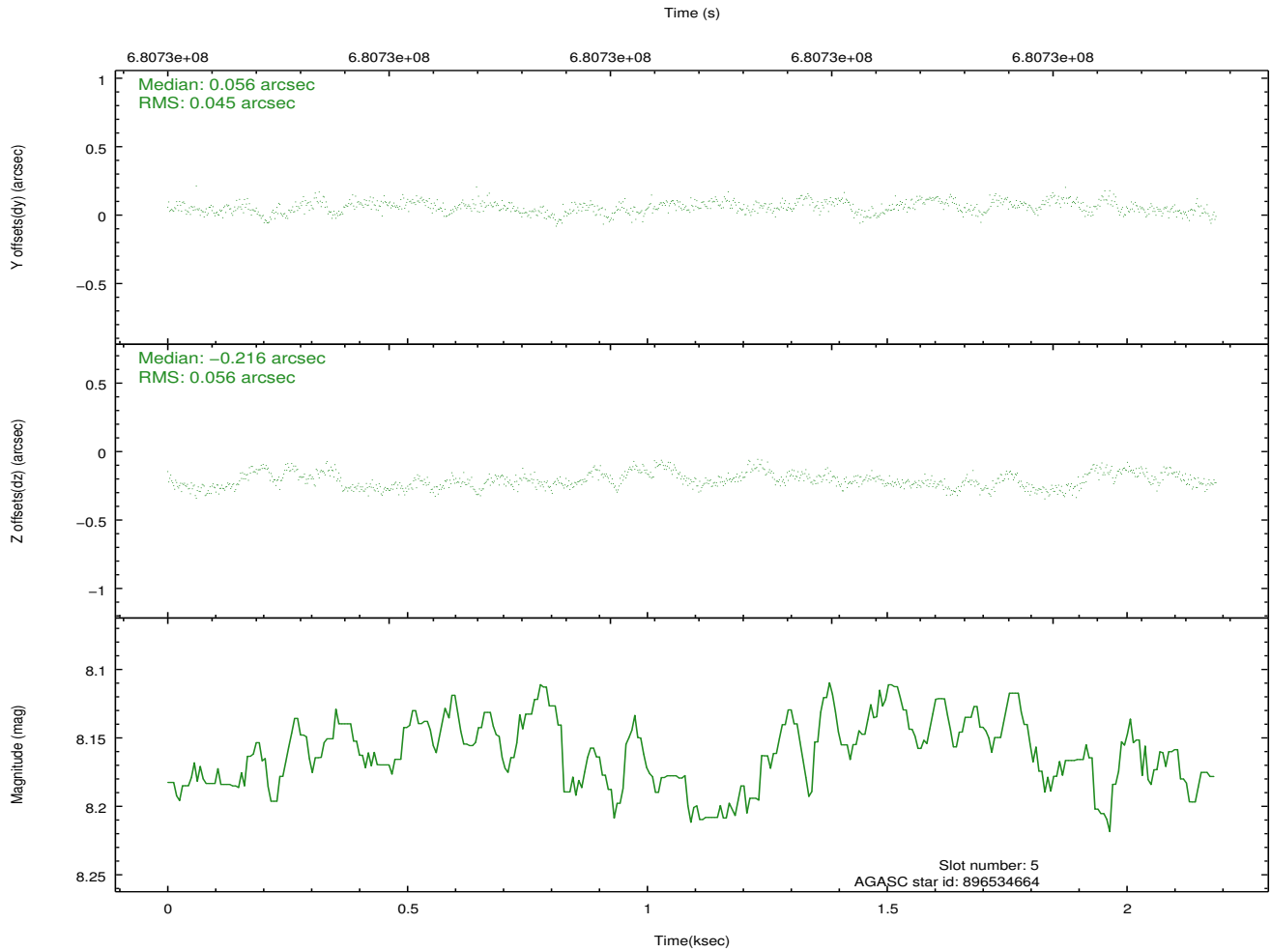
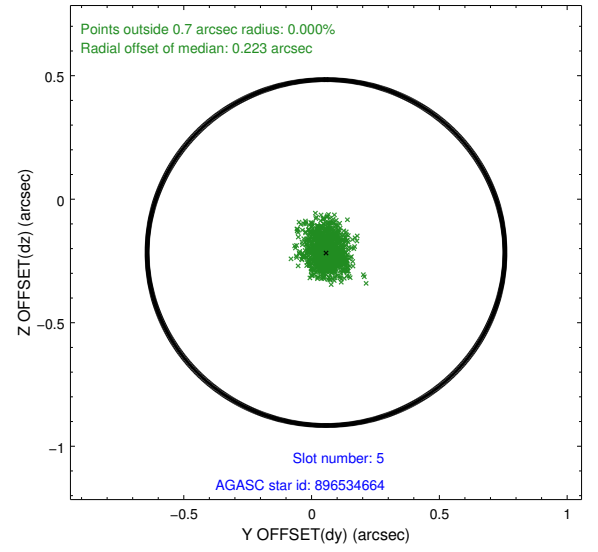
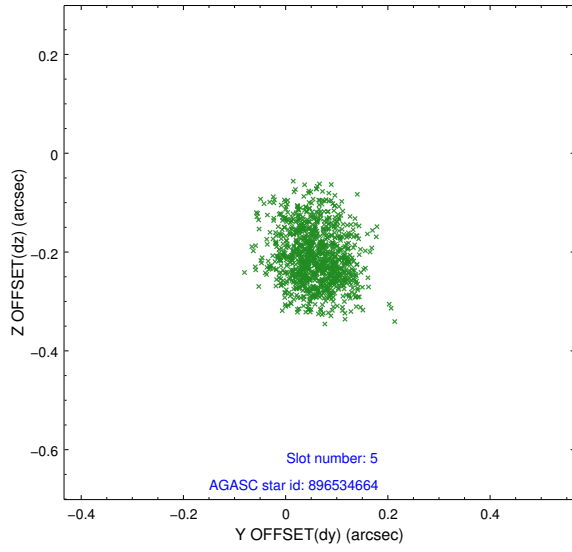
2.4.1 Slot 3



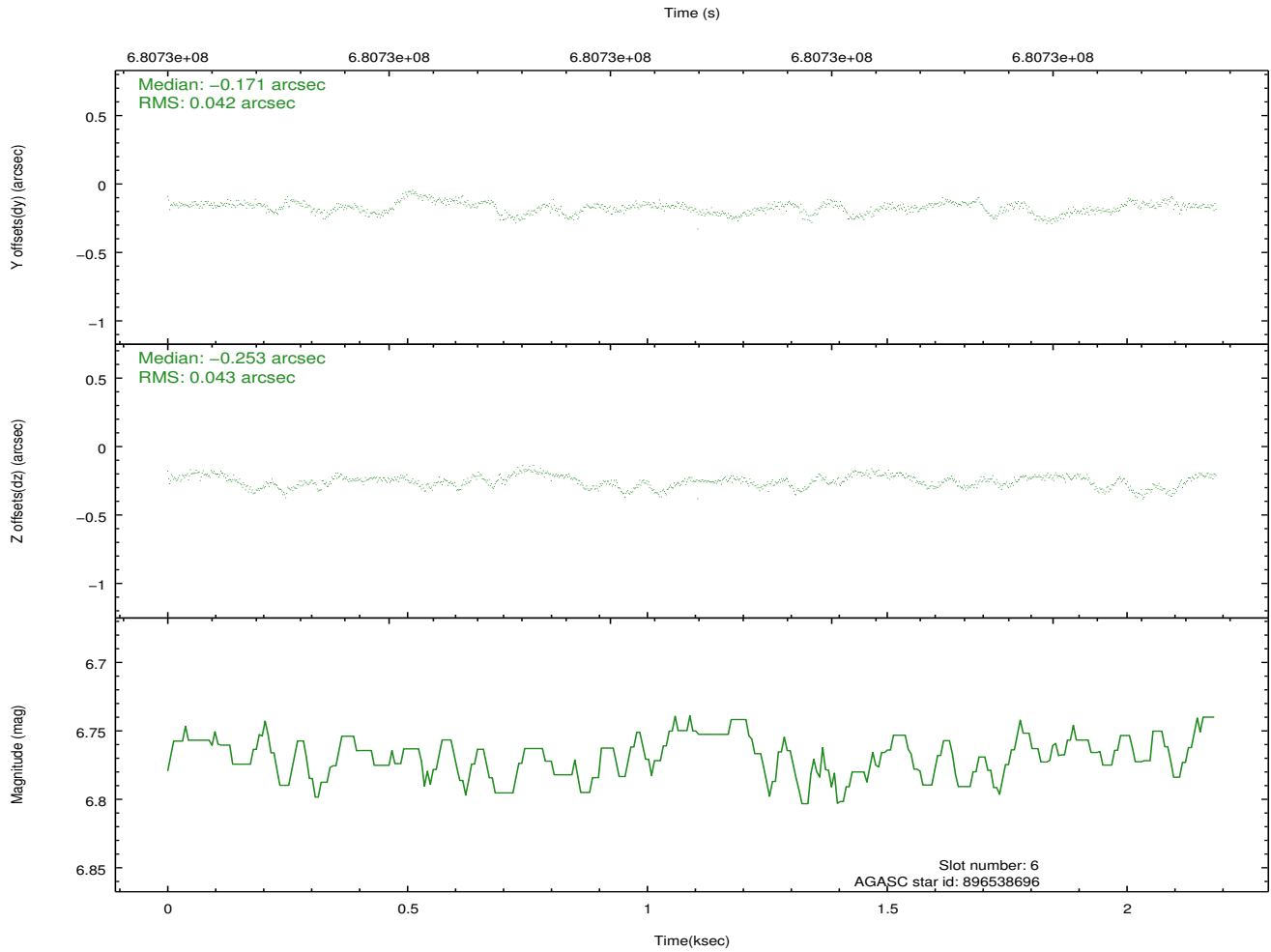
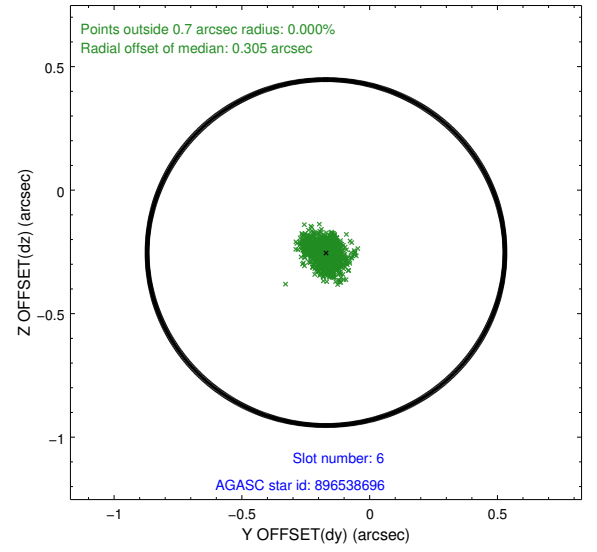
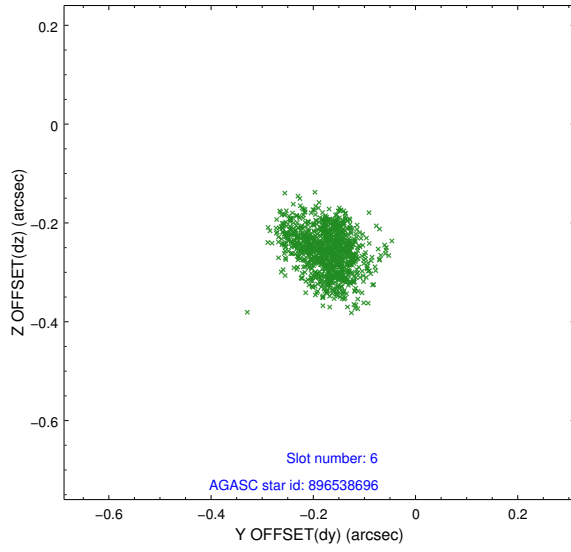
2.4.2 Slot 4



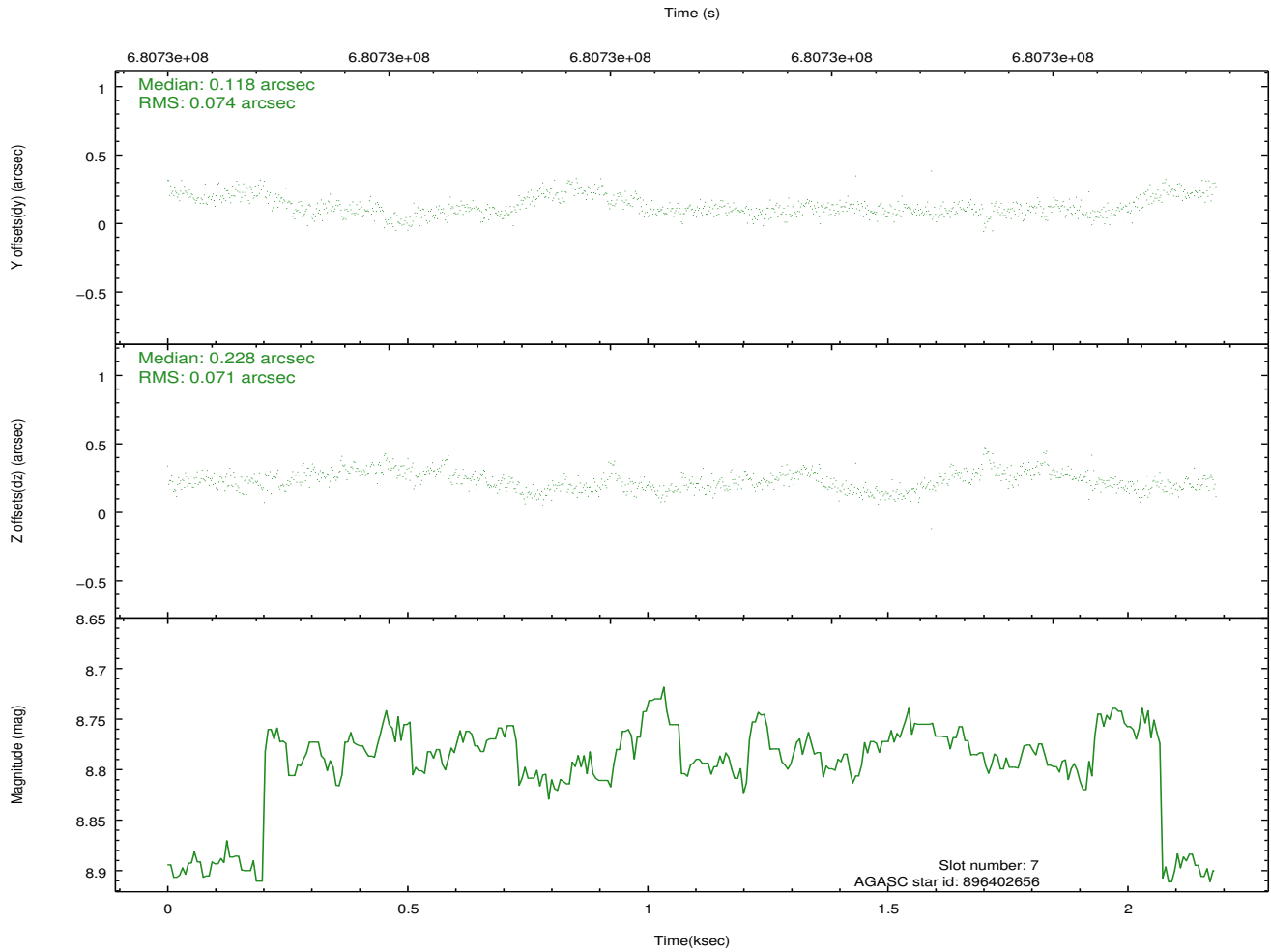
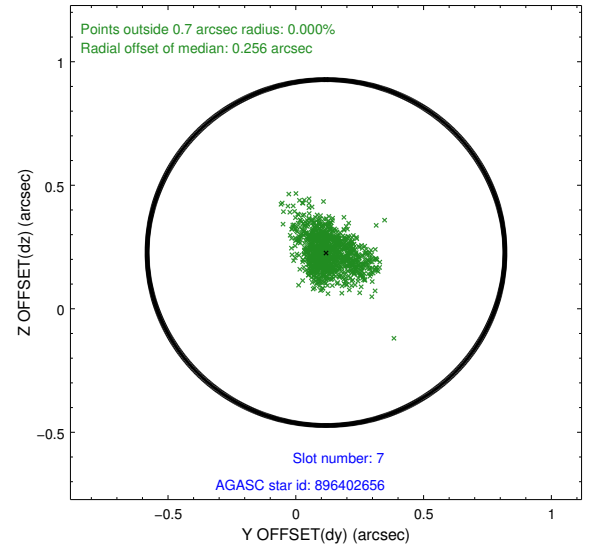
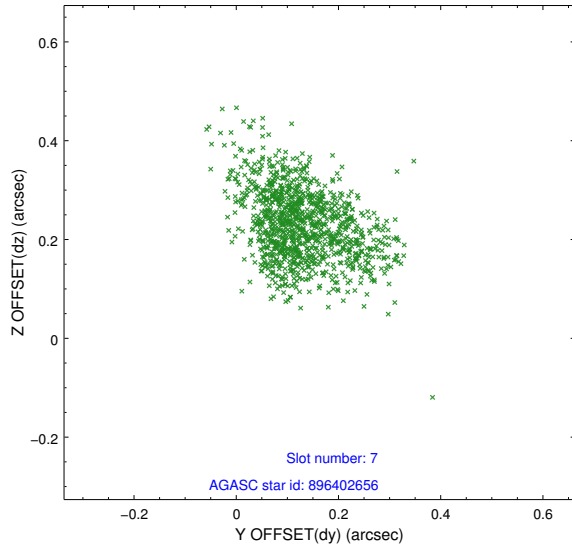
2.4.3 Slot 5



2.4.4 Slot 6

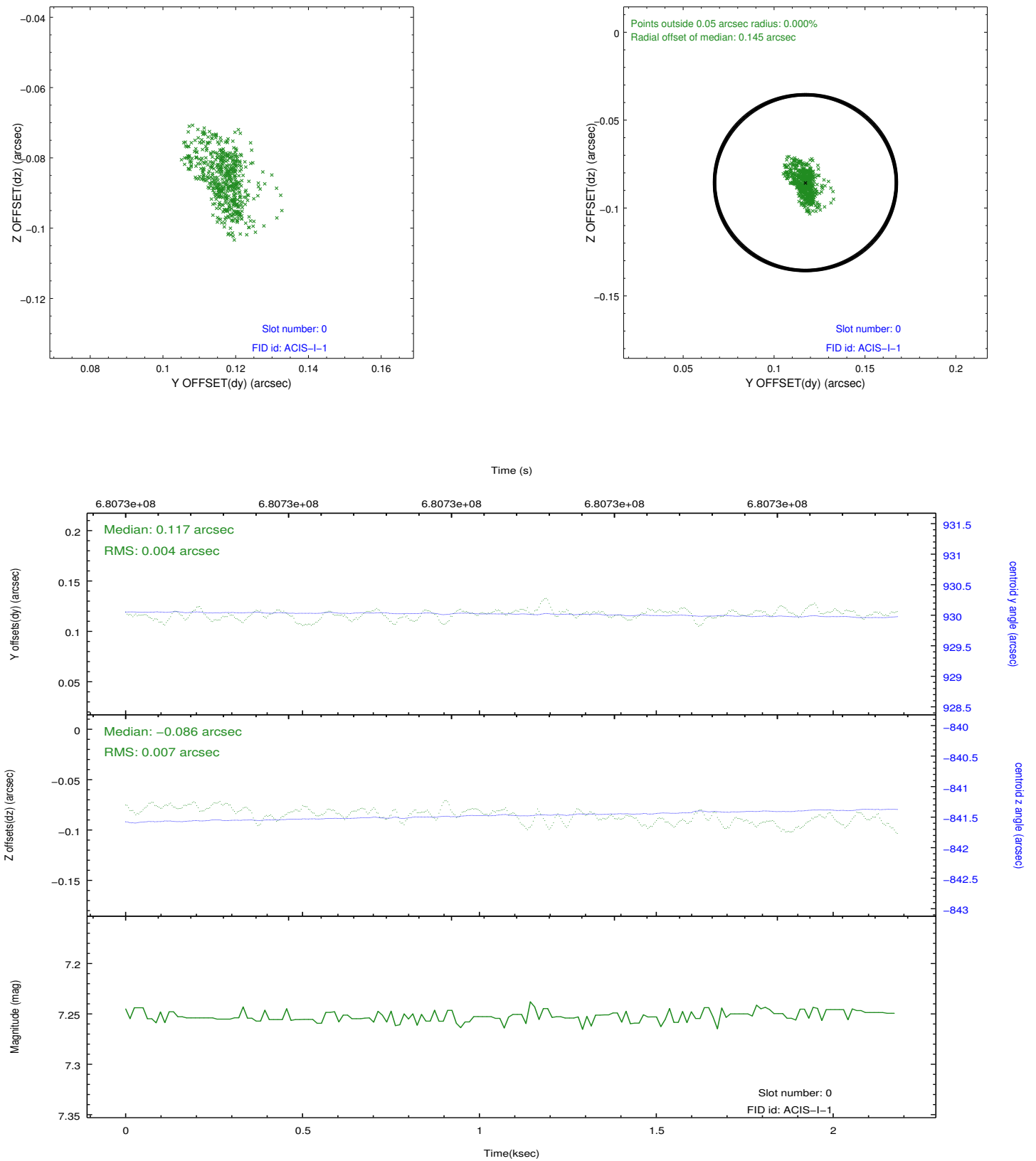


2.4.5 Slot 7

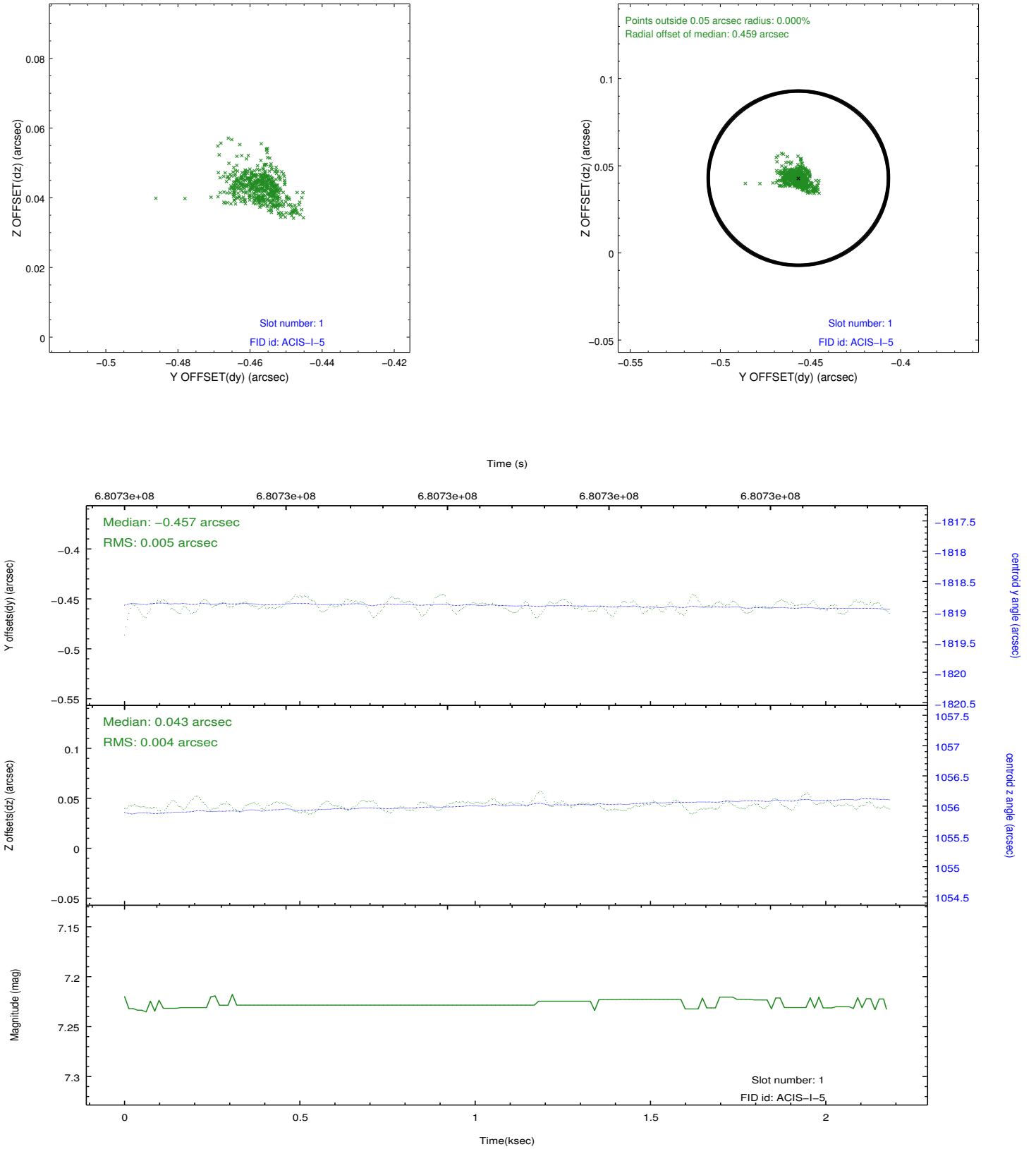


2.5 FID Slots

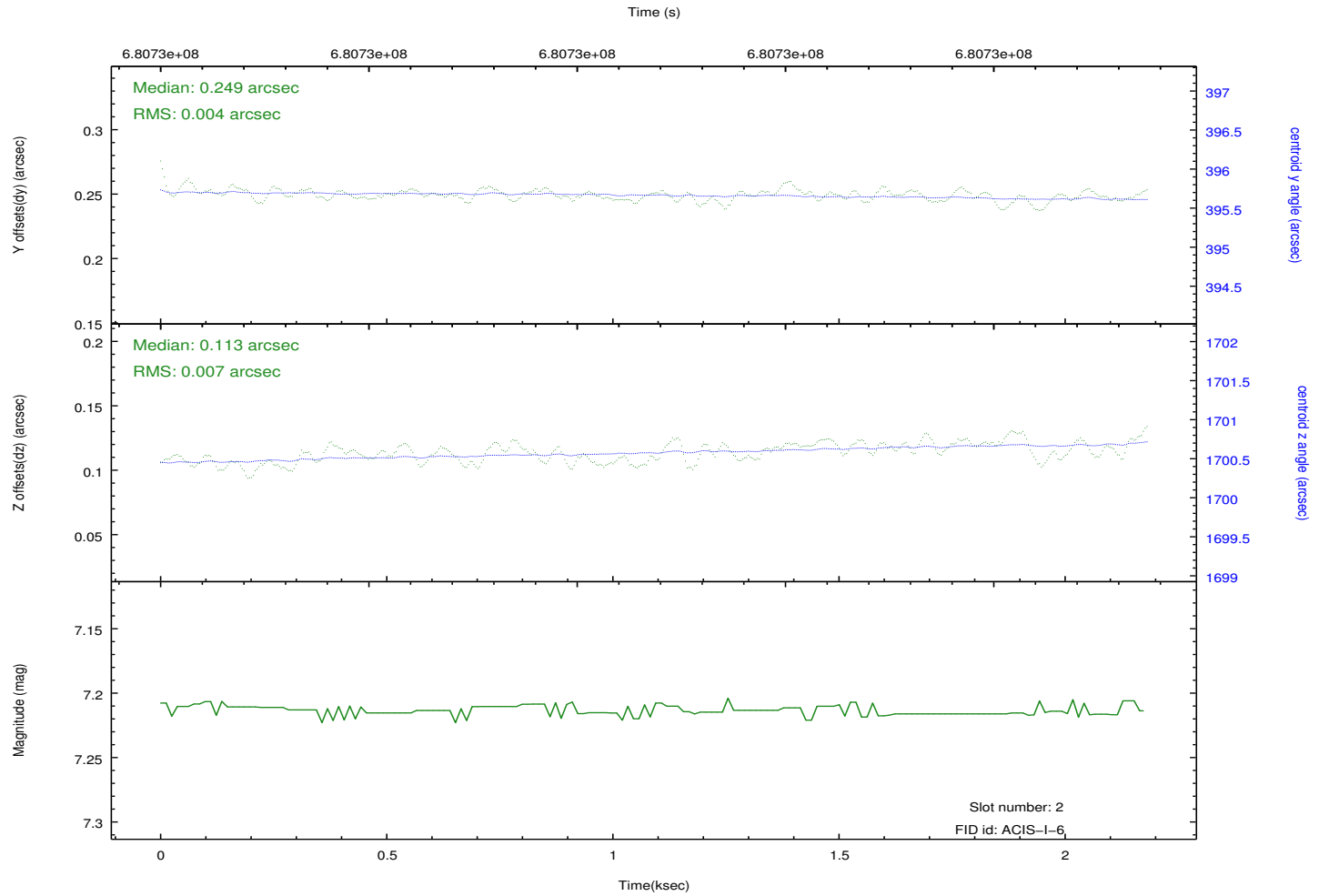
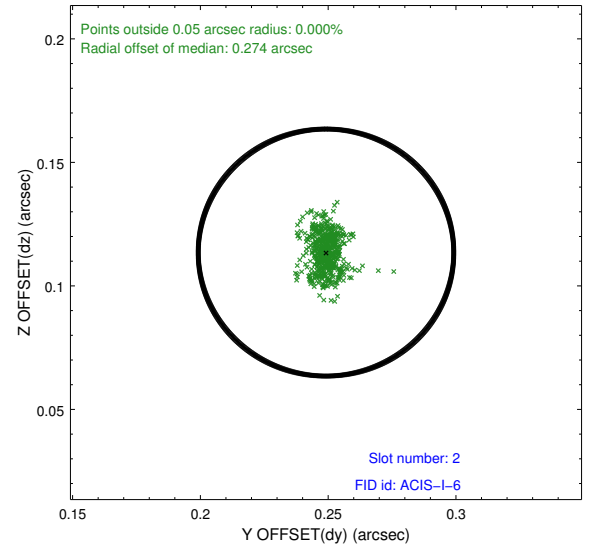
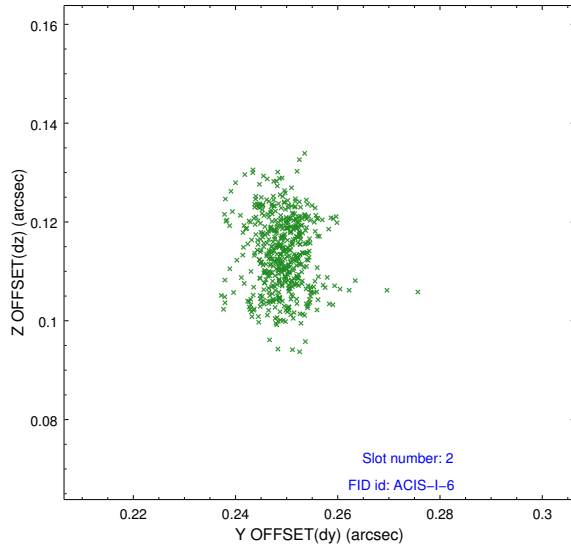
2.5.1 Slot 0



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	1.9084429222345

A.2 Comments