

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21624 - L2 Version 1
Chandra X-Ray Center

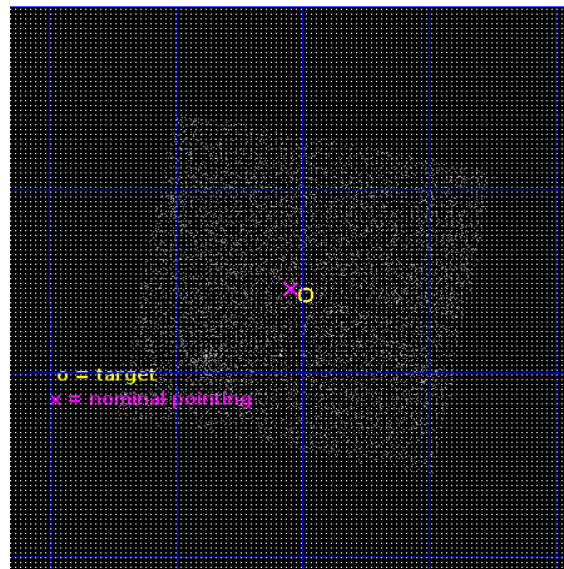
L2 Processing Date : Jul 29 2019

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1 Front

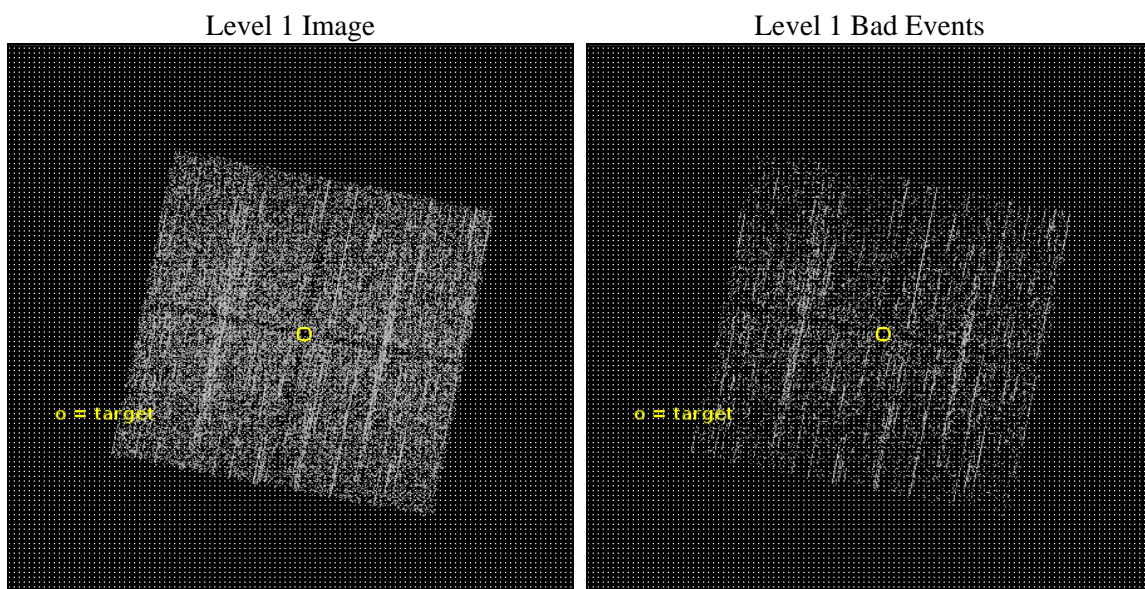
seq_num	300456	Sequence number
obs_id	21624	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.74667	Observer's specified target RA [deg]
dec_targ	-28.09628	Observer's specified target Dec [deg]
ra_nom	266.76076974357	Nominal RA [deg]
dec_nom	-28.090361683117	Nominal Dec [deg]
roll_nom	281.21534881826	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.3881593943	Sum of GTIs [s]
livetime	1883.4536631569	Livetime [s]
ontime0	1908.3471194506	Sum of GTIs [s]
ontime1	1908.3881593943	Sum of GTIs [s]
ontime2	1908.4291994572	Sum of GTIs [s]
ontime3	1908.4702394009	Sum of GTIs [s]
l2events	6466	Number of level 2 events



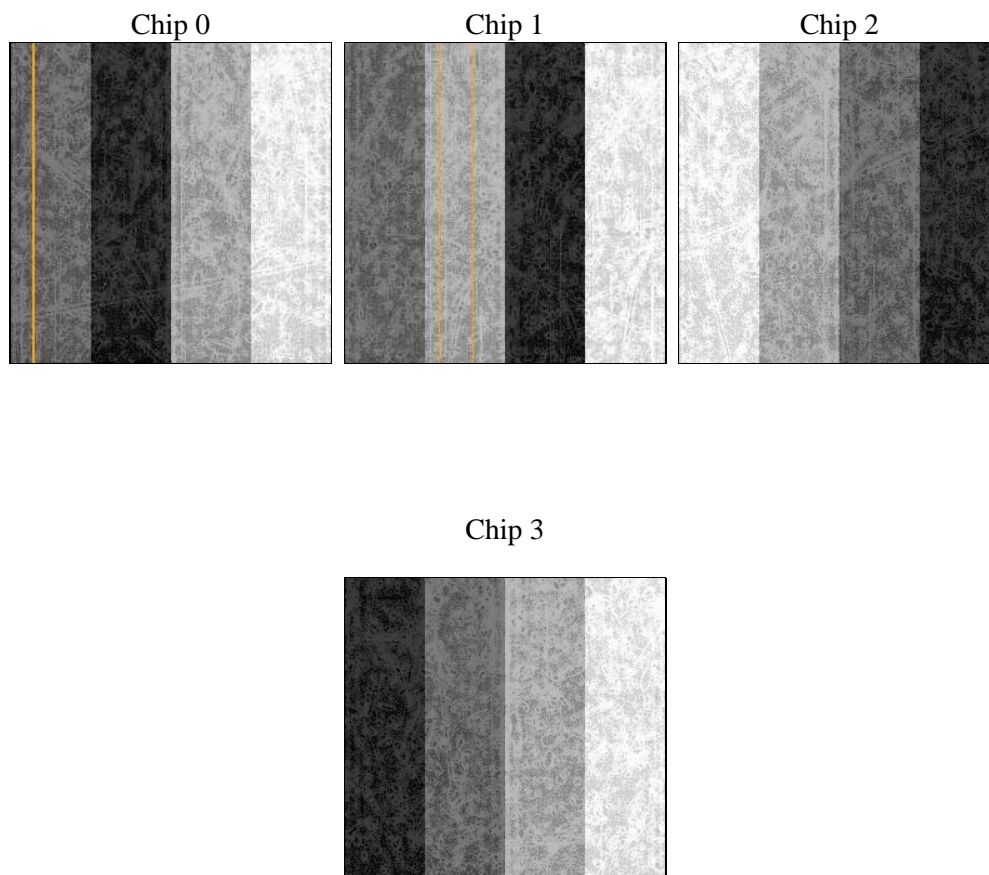
2 OBI

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	1908.3881593943	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.3471194506	Sum of GTIs [s]
date	2019-07-29T04:44:28	Date and time of file creation	ontime1	1908.3881593943	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.4291994572	Sum of GTIs [s]
			ontime3	1908.4702394009	Sum of GTIs [s]
			l1events	56388	Number of level 1 events

2.1.4 Events

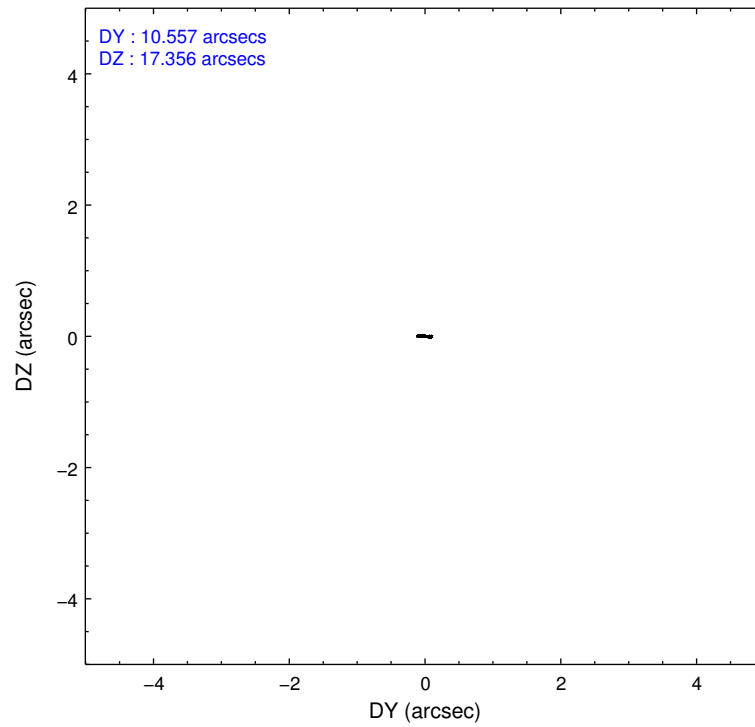
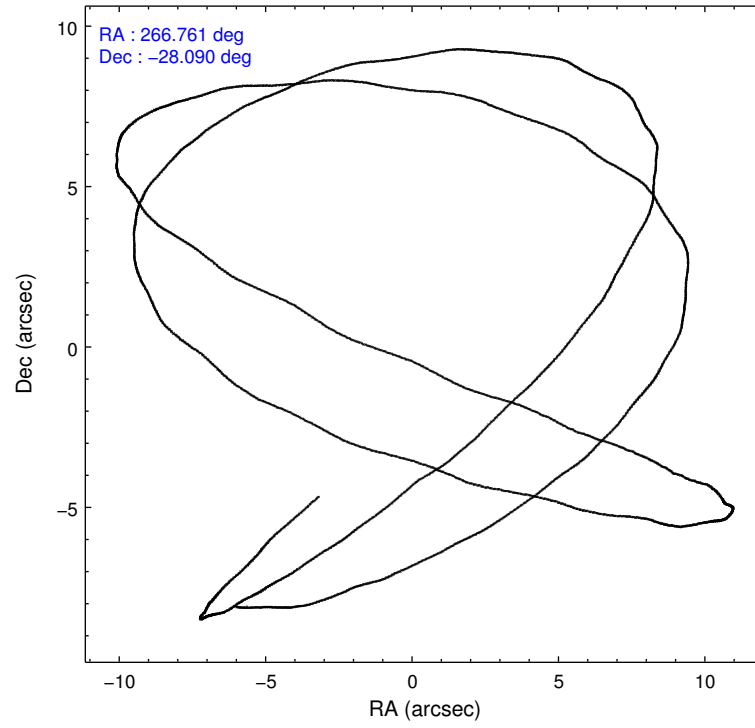
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13896	14324	14770	13398
rejected events	12001	12337	12787	11729
rejected %	86%	86%	86%	87%

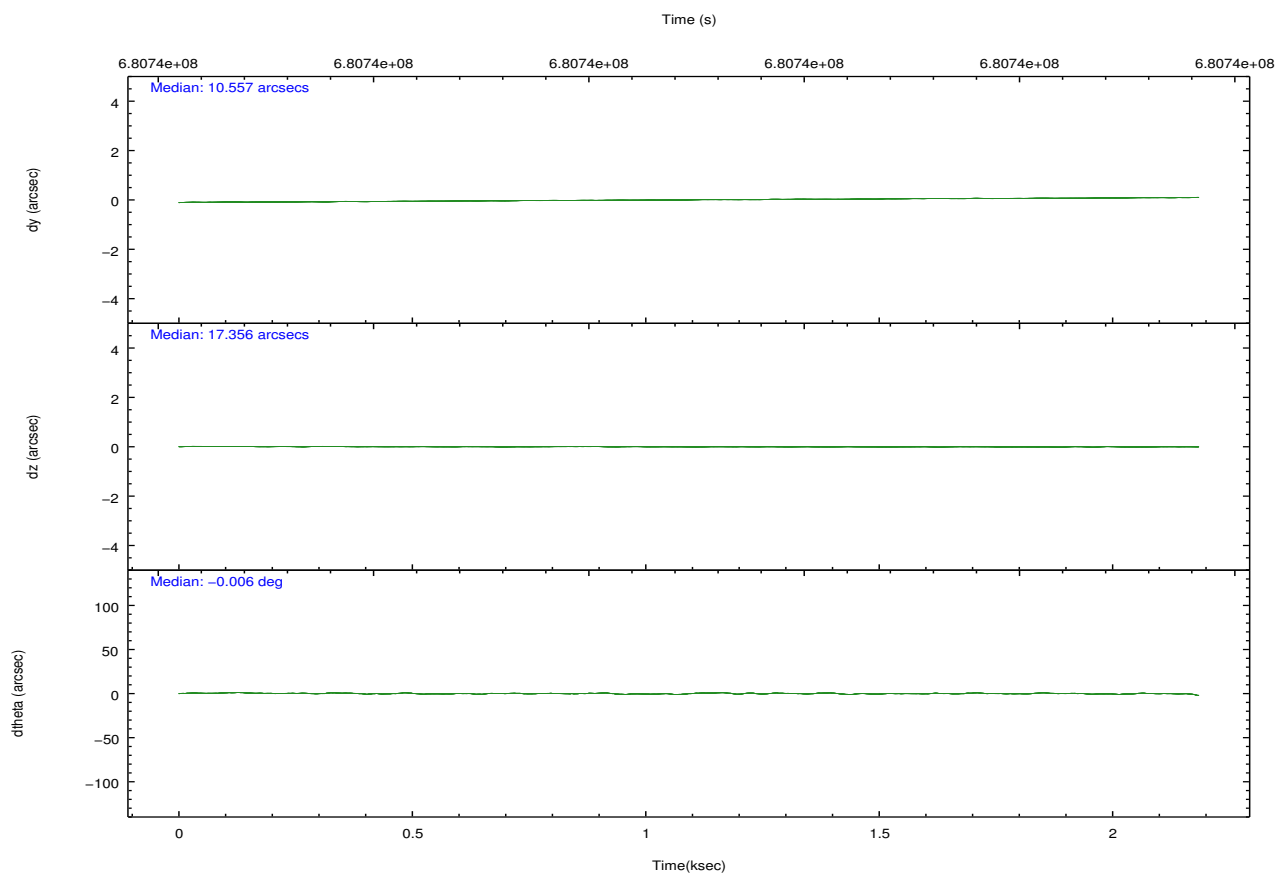
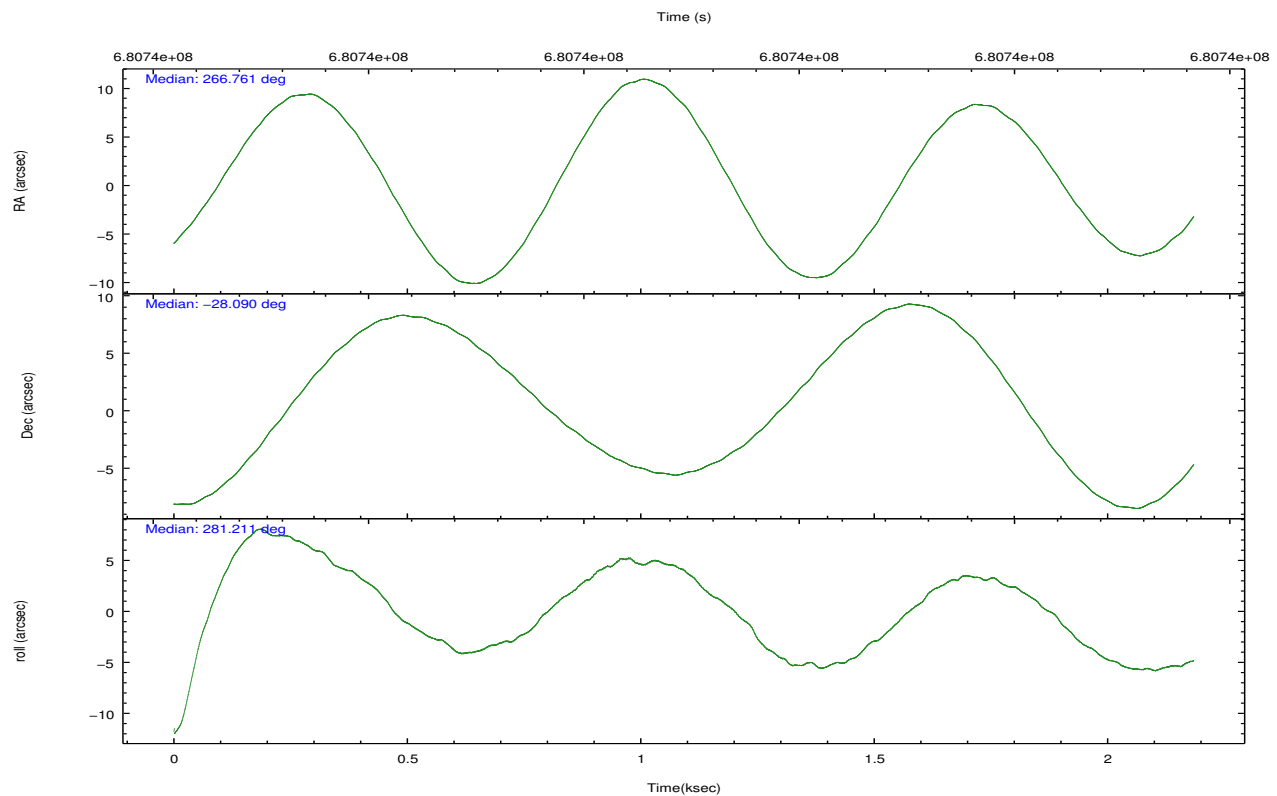
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	755	681	871	651
	5%	4%	5%	4%
grade 1 events	11	5	6	12
	0%	0%	0%	0%
grade 2 events	418	509	431	343
	3%	3%	2%	2%
grade 3 events	181	178	169	164
	1%	1%	1%	1%
grade 4 events	143	169	172	164
	1%	1%	1%	1%
grade 5 events	585	629	557	676
	4%	4%	3%	5%
grade 6 events	400	456	342	354
	2%	3%	2%	2%
grade 7 events	11403	11697	12222	11034
	82%	81%	82%	82%

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	266.740036	266.7607697435681	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.069500	-28.09036168311706	Alternating exposures requested	N	N
[deg] Pointing Roll	280.996882	281.215348818265	[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)	680738327.184000	680737950.71785			
Observation start date	2019-07-28T21:57:38	2019-07-28T21:52:30			
[s] Observation end time (MET)	680740327.184000	680740460.4305			
Observation end date	2019-07-28T22:30:58	2019-07-28T22:34:20			
Read mode	TIMED	TIMED			

2.3 Aspect



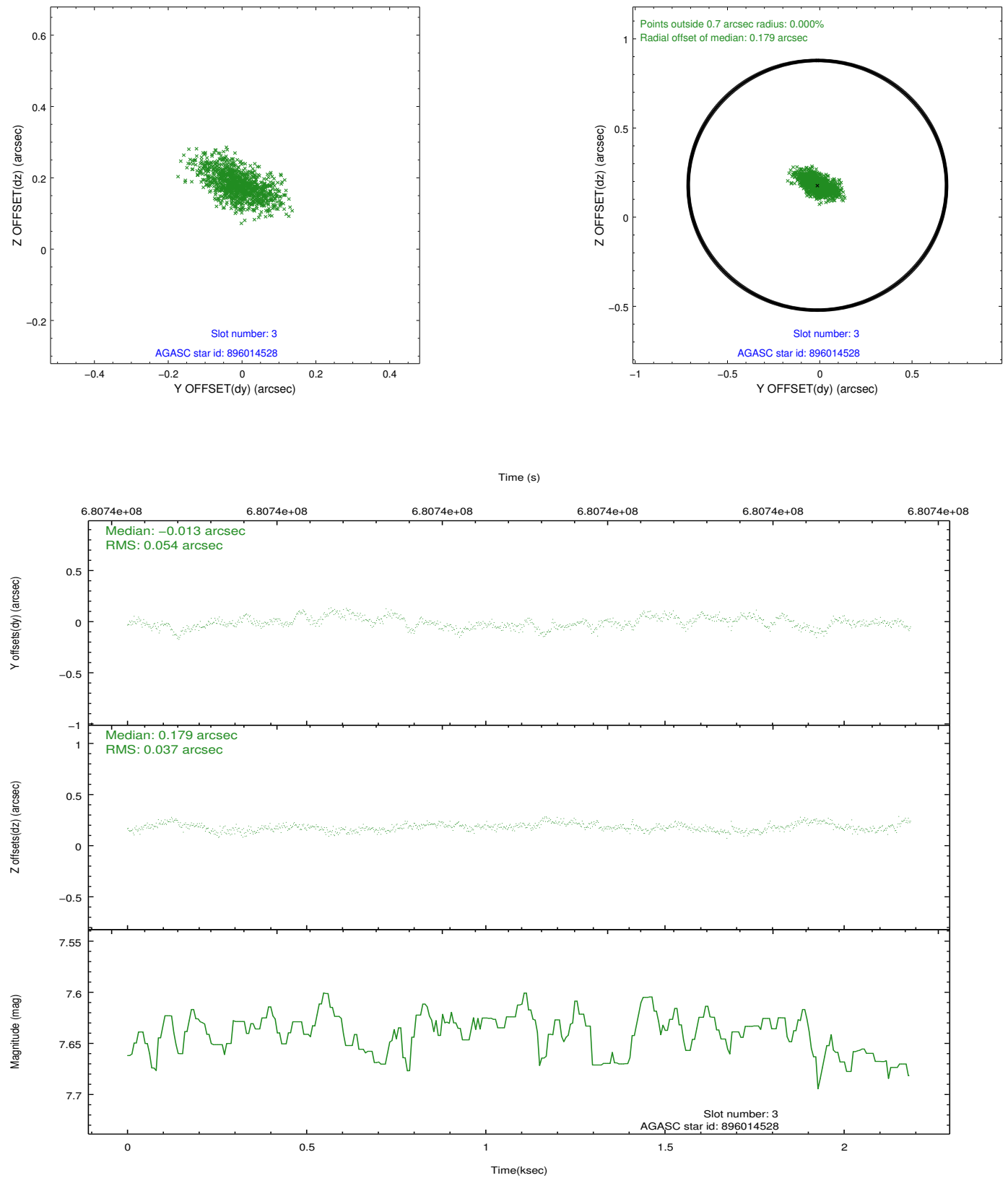


Slot Statistics

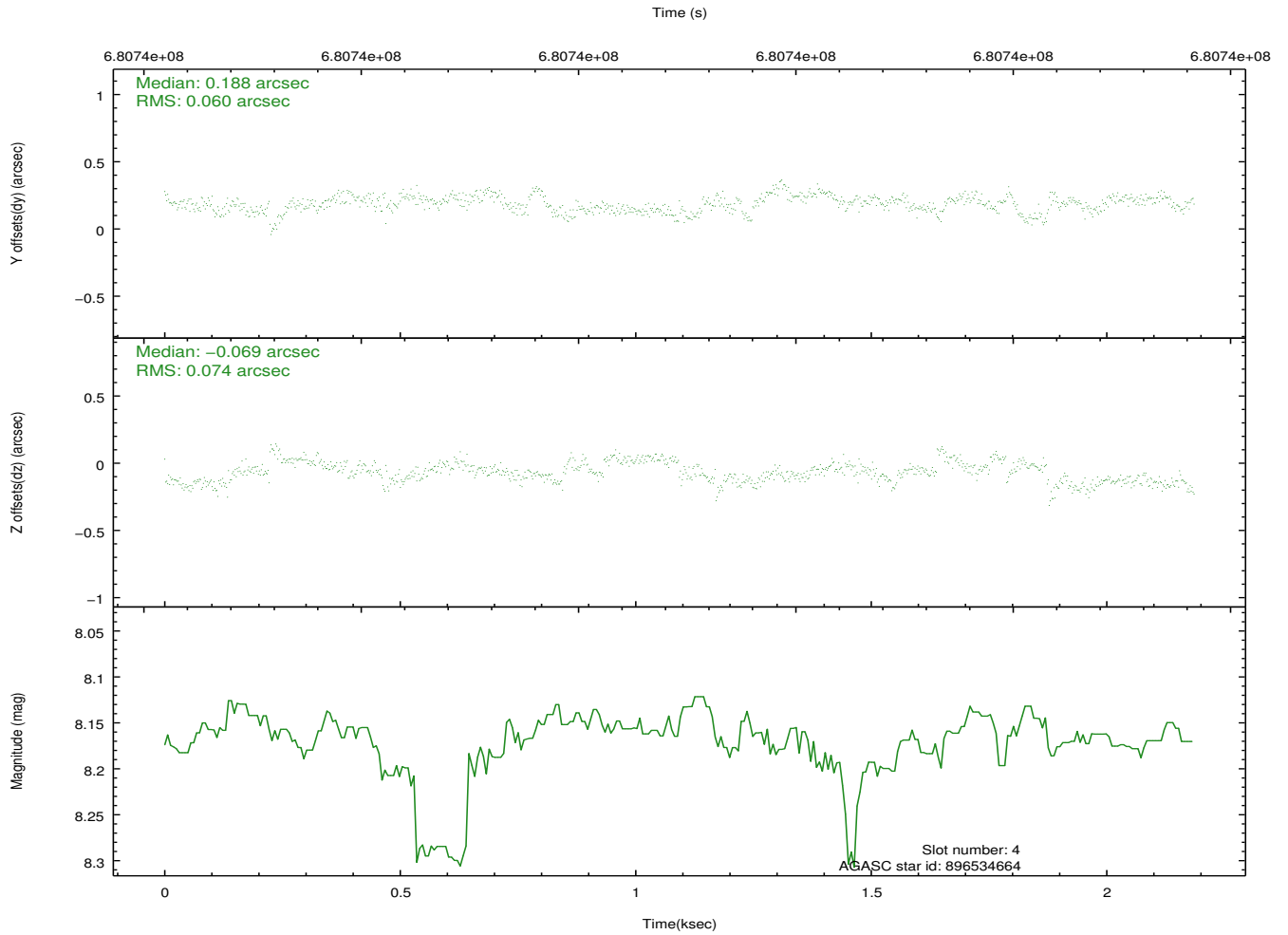
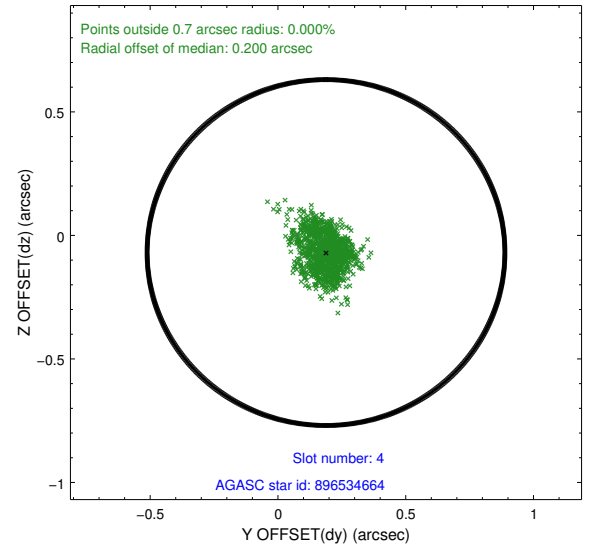
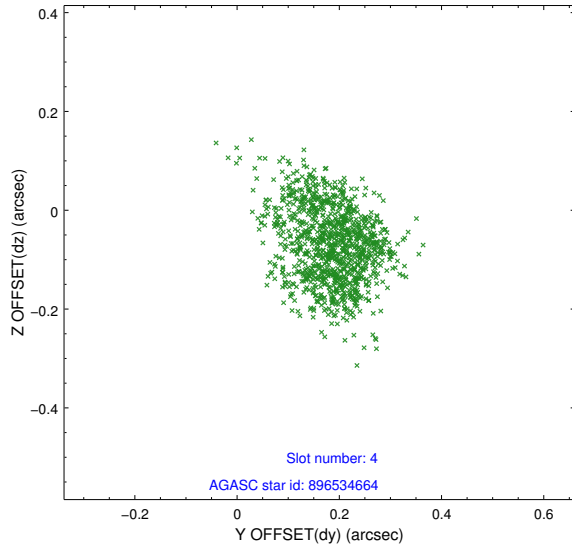
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.26	533	1.000	0.127	-0.119	0.006	0.012	0.000000	0.000000	929.21	-841
1	FID		ACIS-I-5	7.24	533	1.000	-0.471	0.042	0.007	0.012	0.000000	0.000000	-1817.98	1054
2	FID		ACIS-I-6	7.23	533	1.000	0.254	0.148	0.007	0.012	0.000000	0.000000	391.45	1703
3	GUIDE	used	896014528	7.64	1066	1.000	-0.013	0.179	0.068	0.119	266.628858	-27.438607	-2297.31	84
4	GUIDE	used	896534664	8.17	1067	1.000	0.188	-0.069	0.102	0.154	266.405570	-28.407461	992.64	-1271
5	GUIDE	used	896537176	8.01	1067	1.000	0.024	0.036	0.075	0.125	266.498272	-28.678259	2007.53	-1168
6	GUIDE	used	896538696	6.78	1067	1.000	0.017	0.118	0.062	0.104	266.298470	-28.325572	642.35	-1550
7	GUIDE	used	896540888	7.88	1064	1.000	-0.218	-0.260	0.125	0.193	267.212234	-28.246138	912.87	1346

2.4 Star Slots

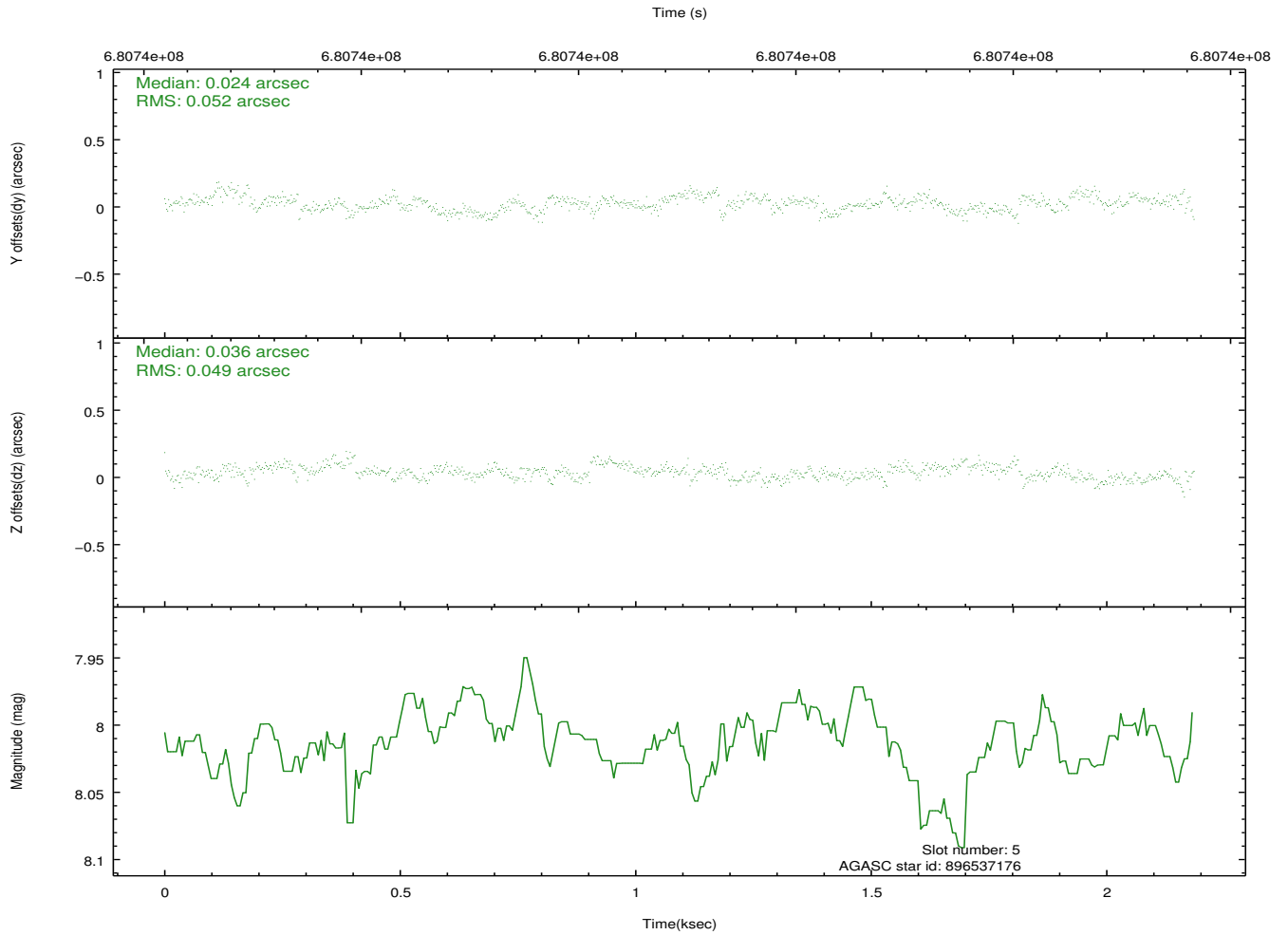
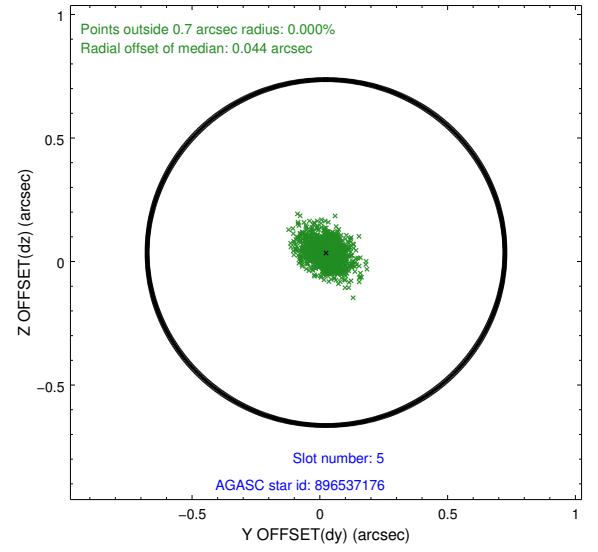
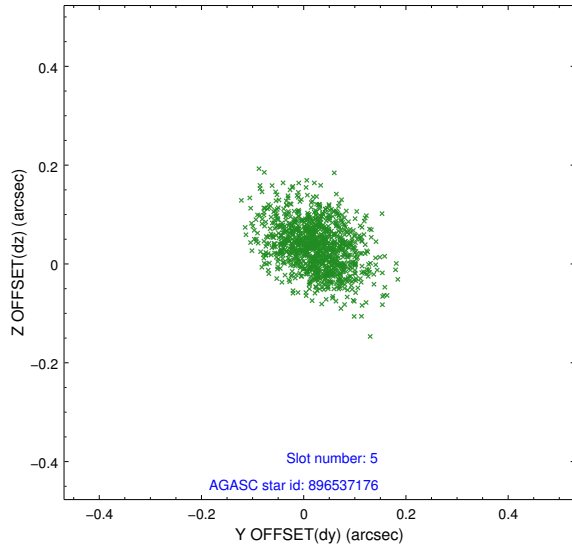
2.4.1 Slot 3



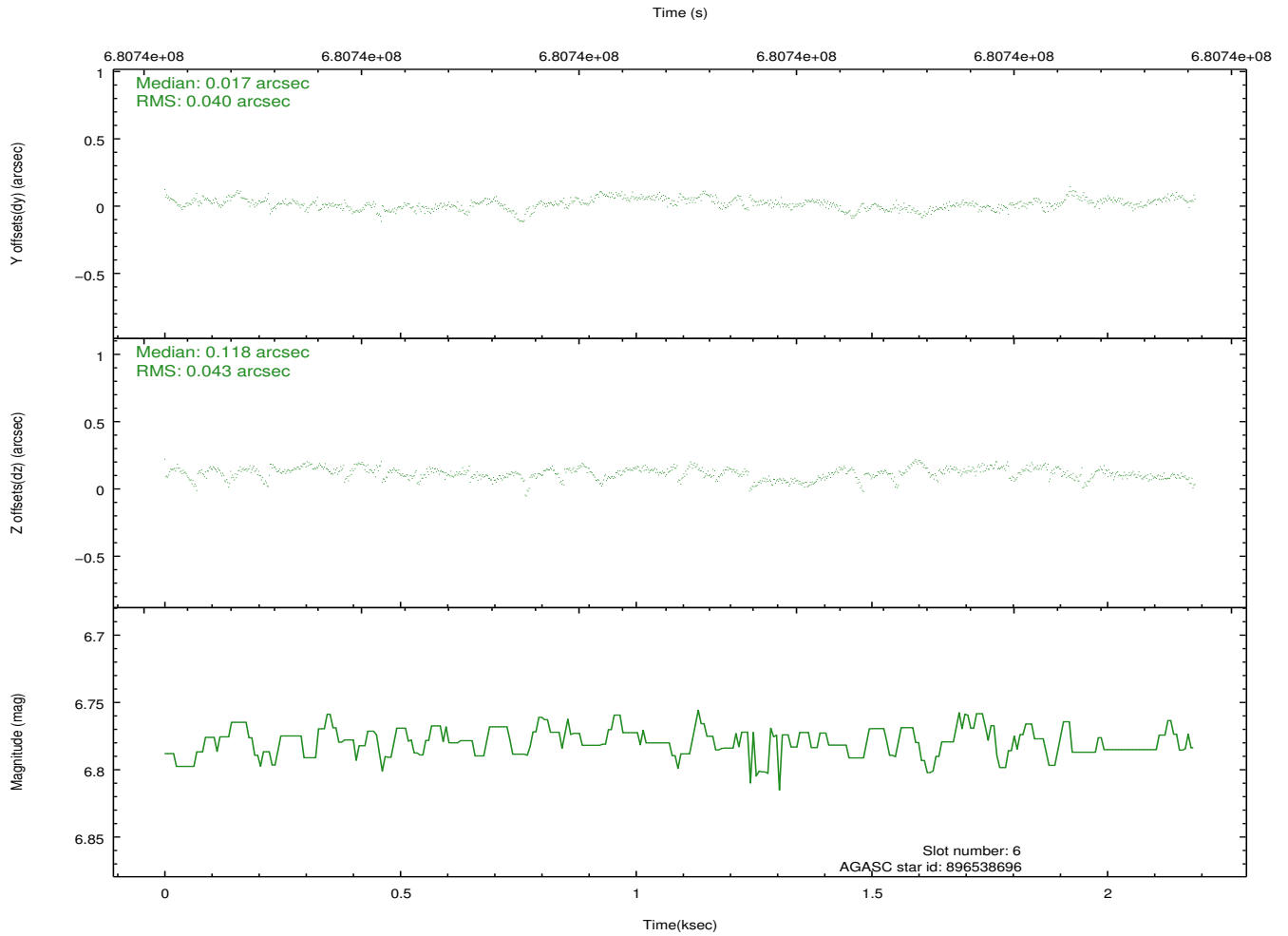
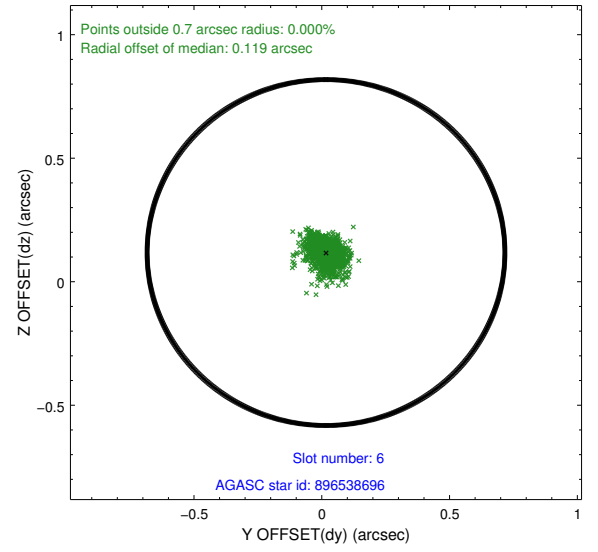
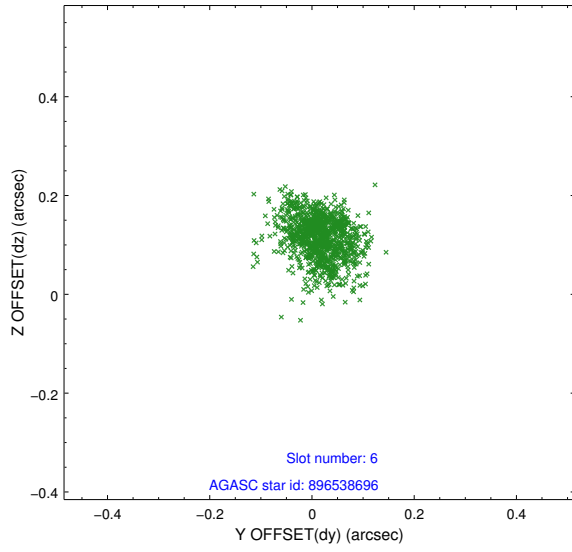
2.4.2 Slot 4



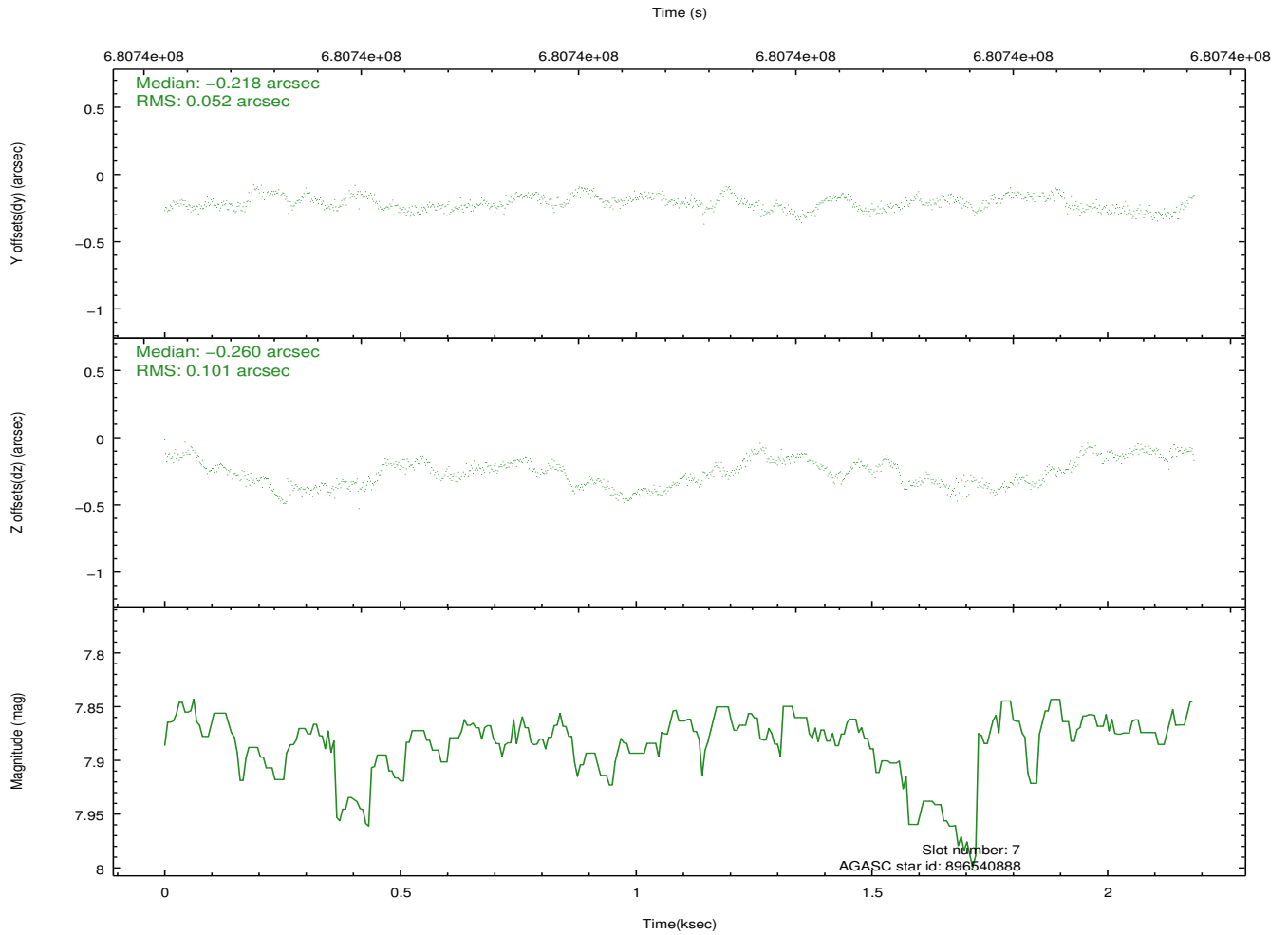
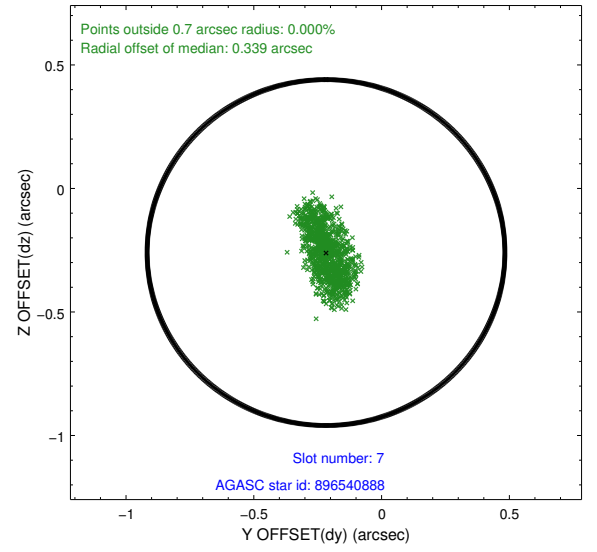
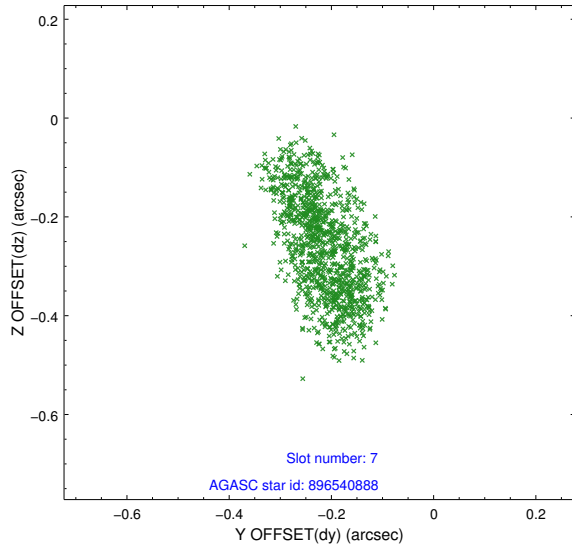
2.4.3 Slot 5



2.4.4 Slot 6

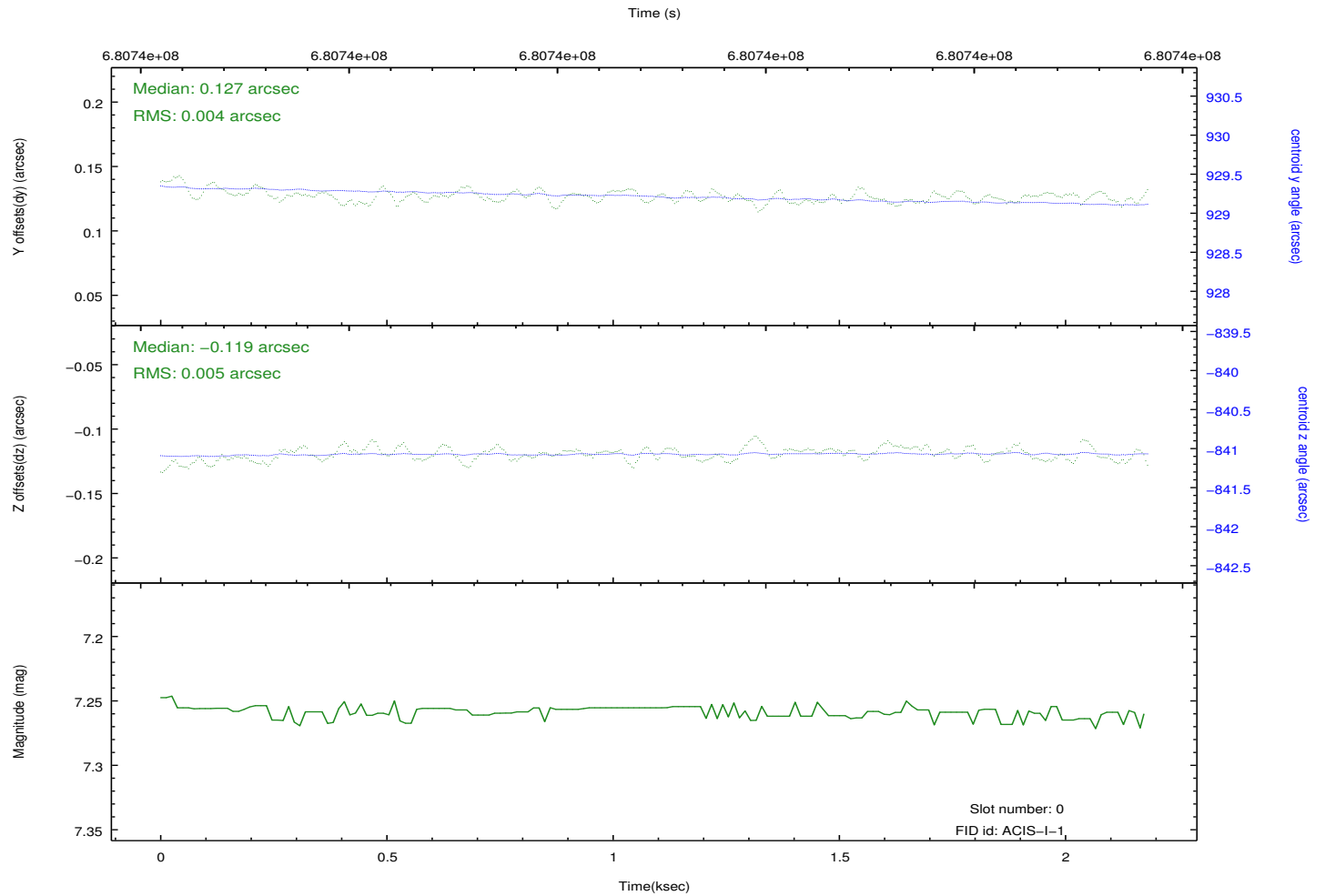
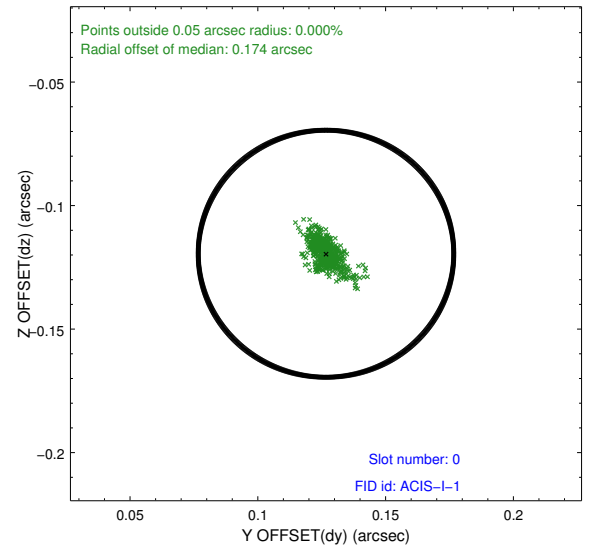
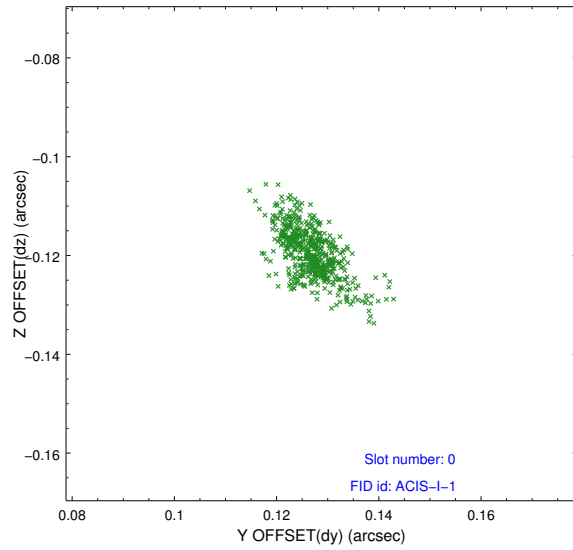


2.4.5 Slot 7

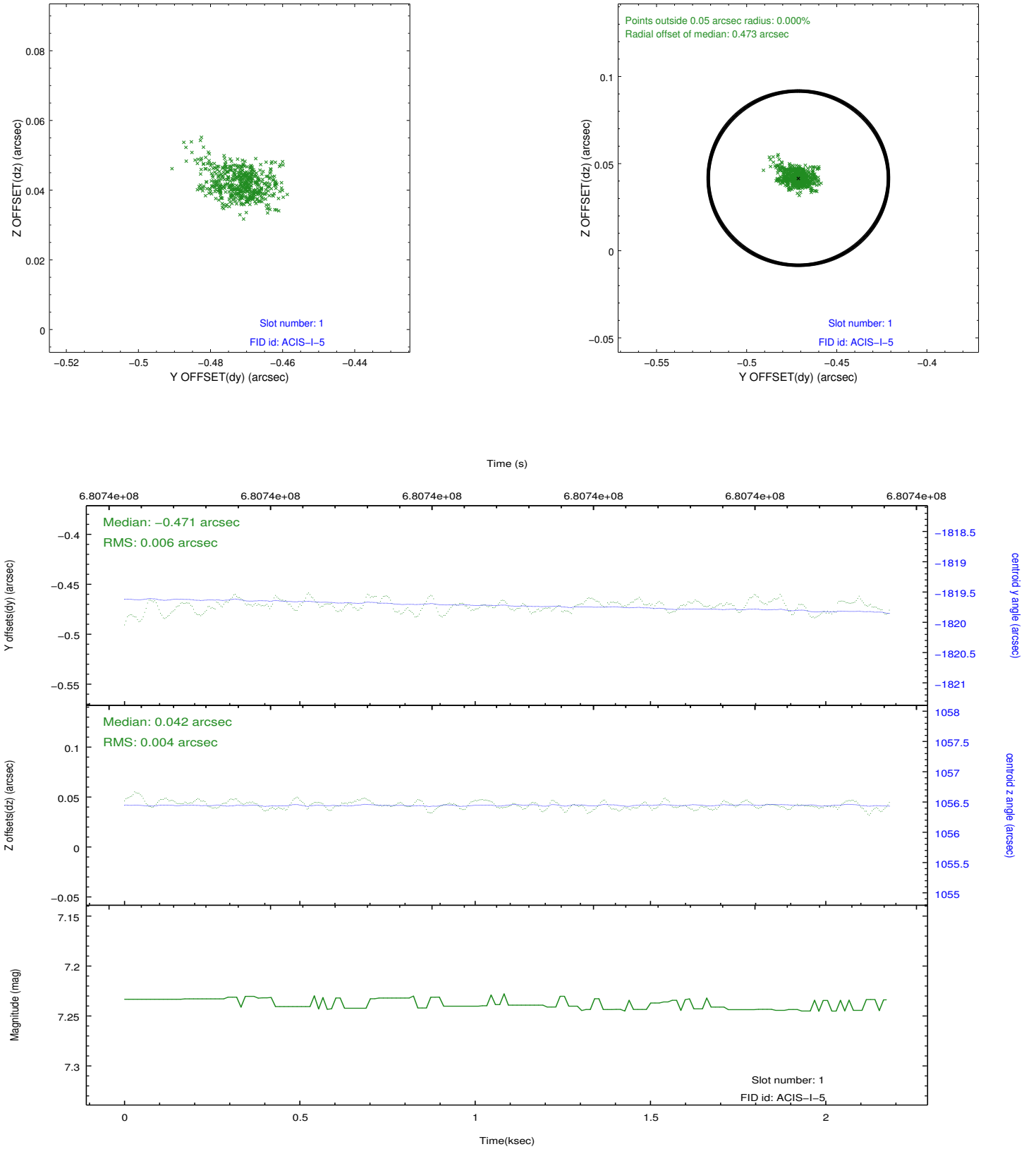


2.5 FID Slots

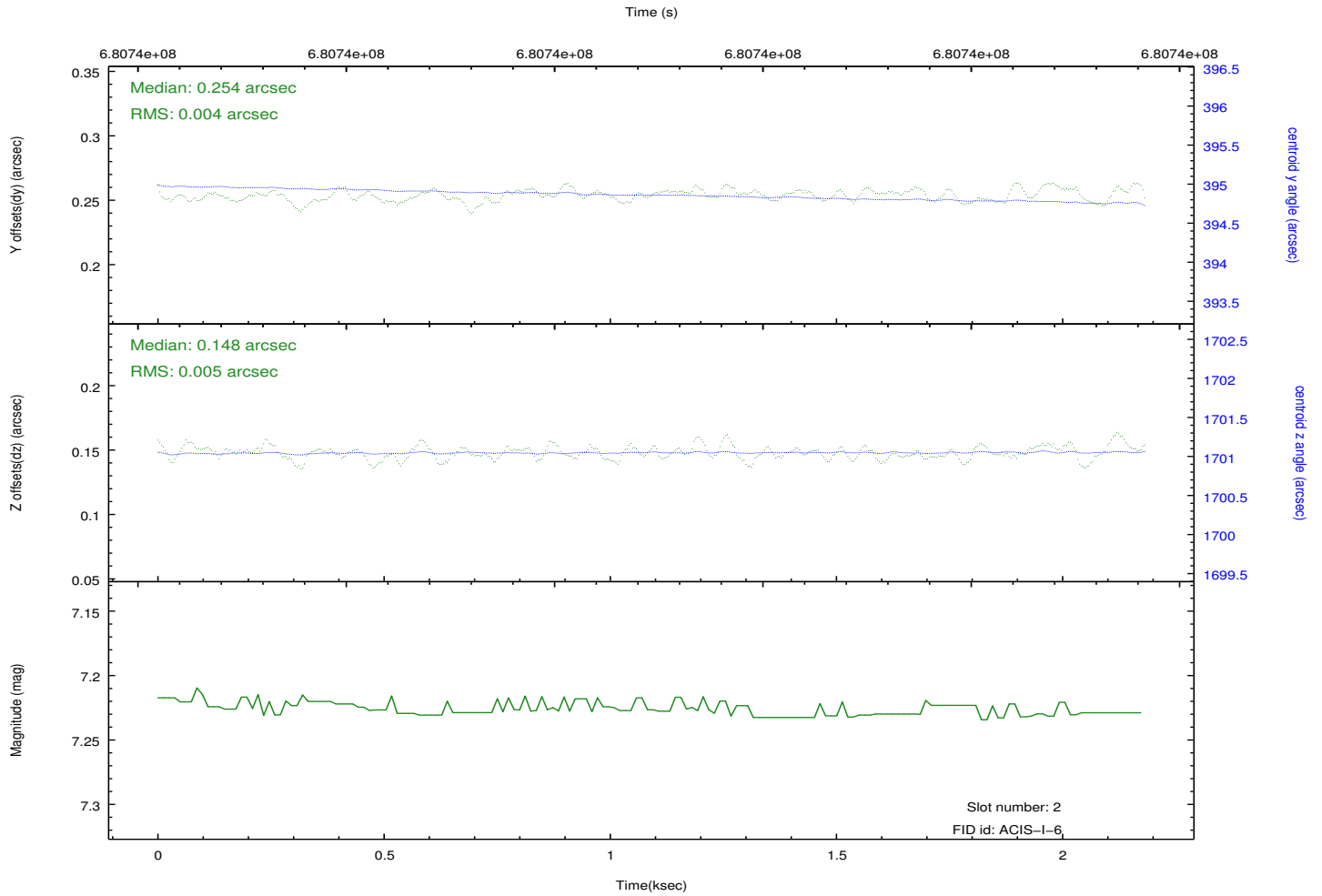
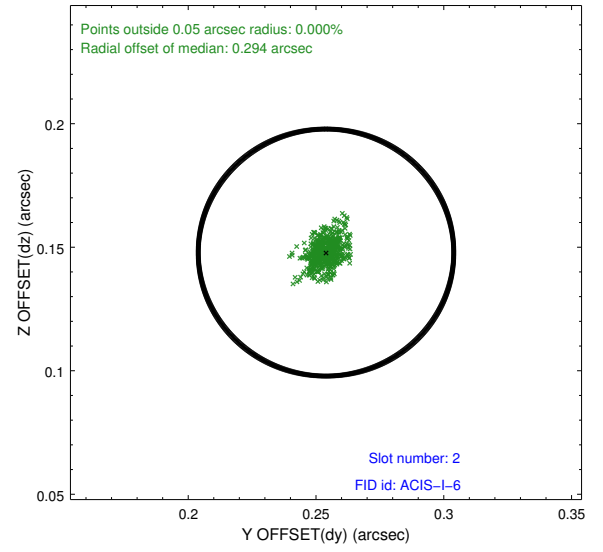
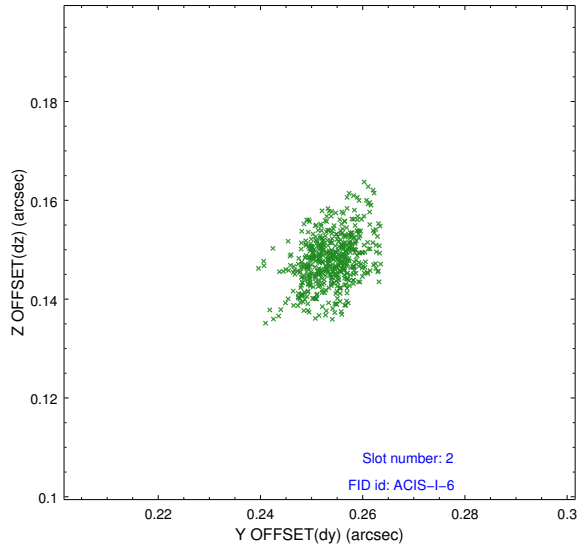
2.5.1 Slot 0



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	1.9083881593943

A.2 Comments