

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21625 - L2 Version 1
Chandra X-Ray Center

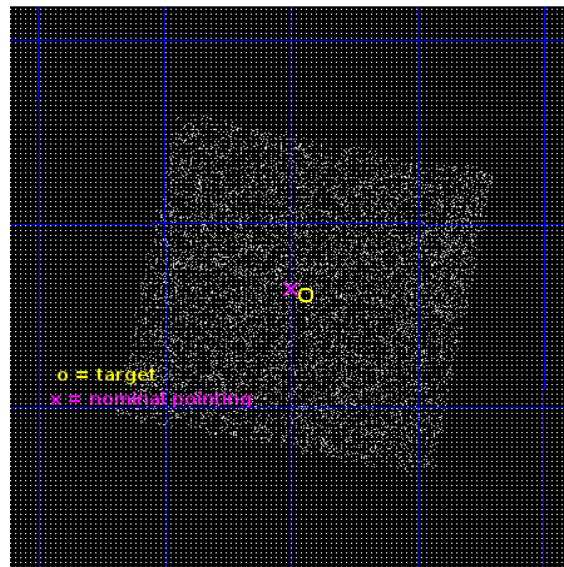
L2 Processing Date : Jul 29 2019

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1 Front

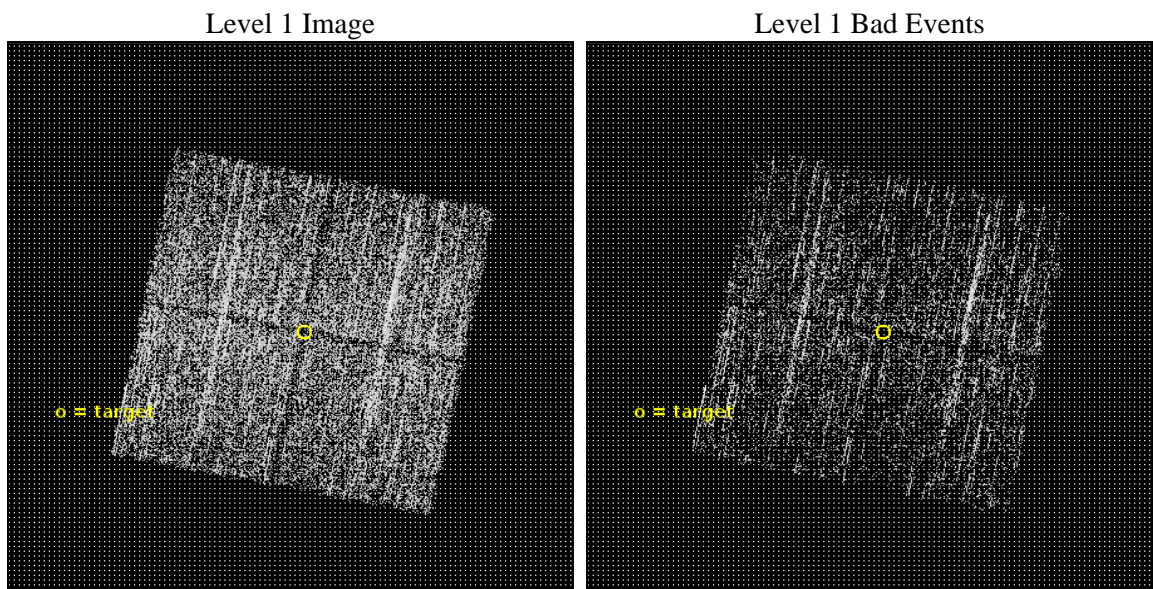
seq_num	300457	Sequence number
obs_id	21625	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.98557	Observer's specified target RA [deg]
dec_targ	-28.232094	Observer's specified target Dec [deg]
ra_nom	265.99972638718	Nominal RA [deg]
dec_nom	-28.225846019507	Nominal Dec [deg]
roll_nom	281.21539065142	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1906.500014782	Sum of GTIs [s]
livetime	1881.5901885439	Livetime [s]
ontime0	1906.500014782	Sum of GTIs [s]
ontime1	1906.500014782	Sum of GTIs [s]
ontime2	1906.500014782	Sum of GTIs [s]
ontime3	1906.500014782	Sum of GTIs [s]
l2events	6156	Number of level 2 events



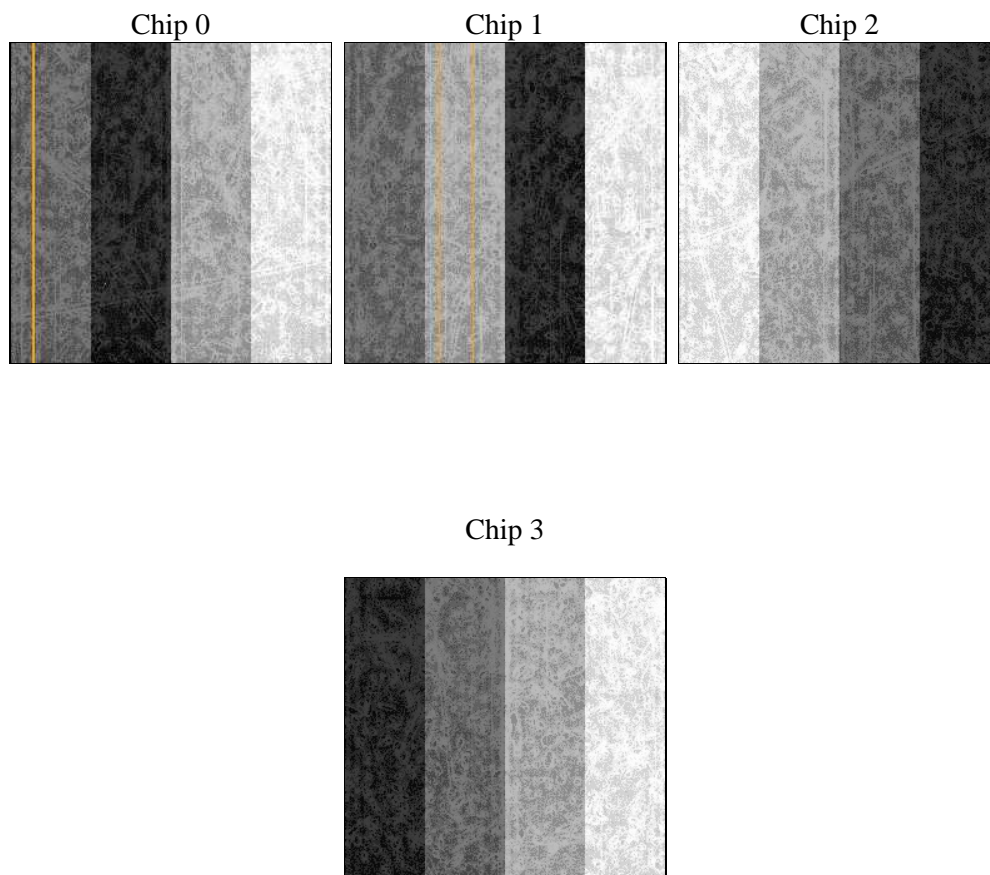
2 OBI

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	1906.500014782	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1906.500014782	Sum of GTIs [s]
date	2019-07-29T04:45:24	Date and time of file creation	ontime1	1906.500014782	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1906.500014782	Sum of GTIs [s]
			ontime3	1906.500014782	Sum of GTIs [s]
			l1events	58070	Number of level 1 events

2.1.4 Events

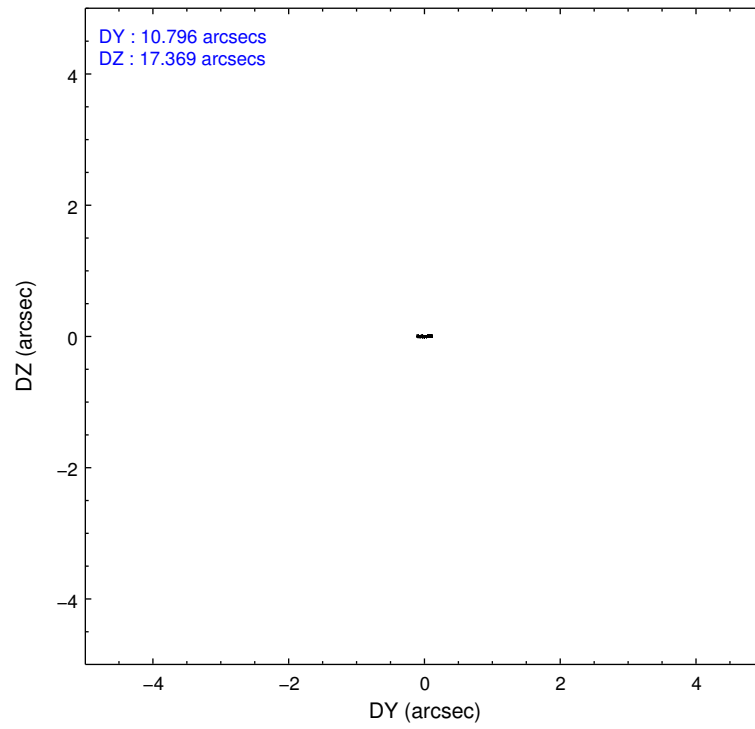
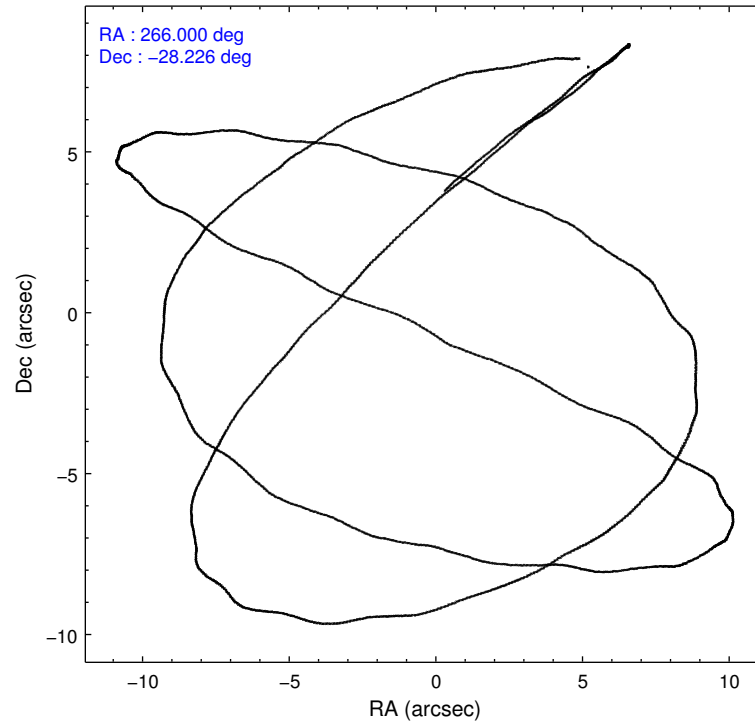
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13310	15157	15606	13997
rejected events	11479	13164	13827	12384
rejected %	86%	86%	88%	88%

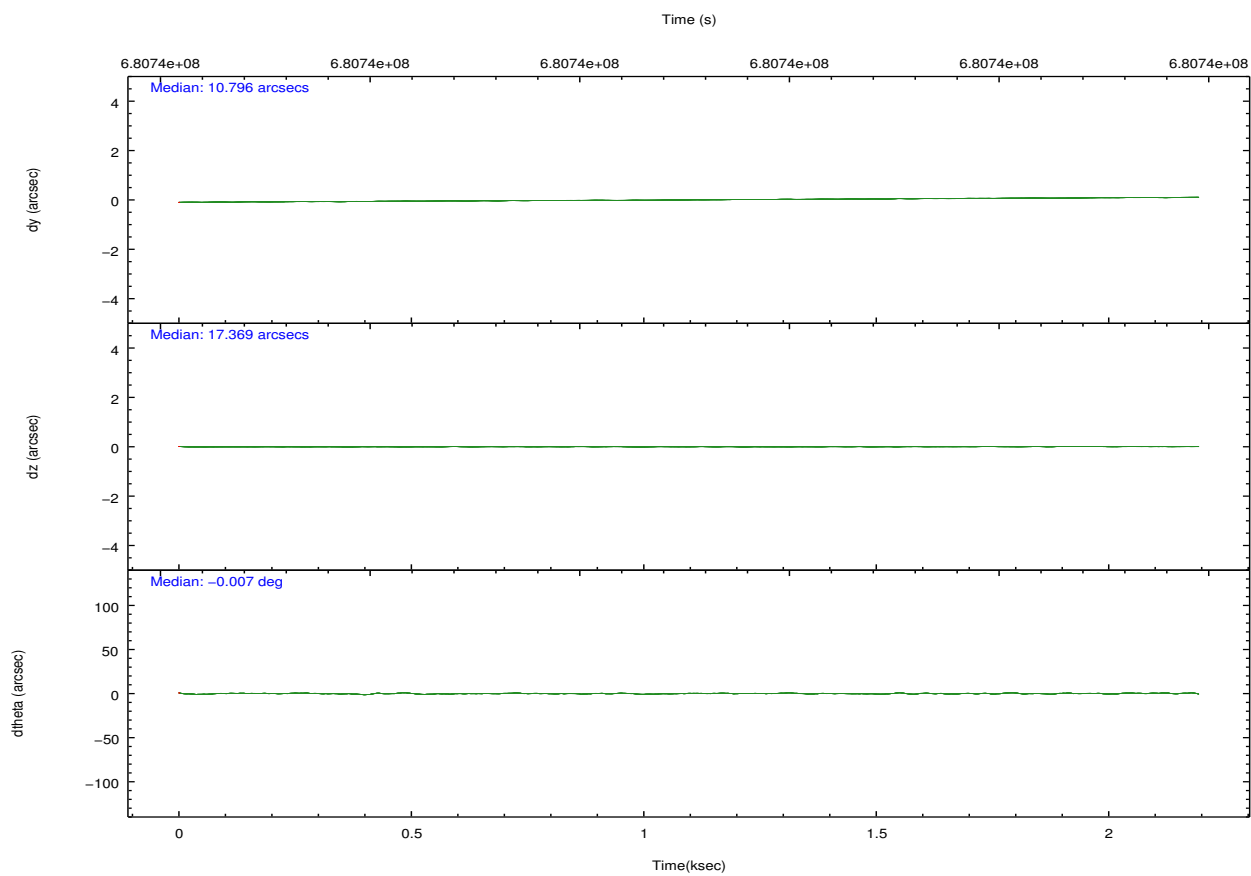
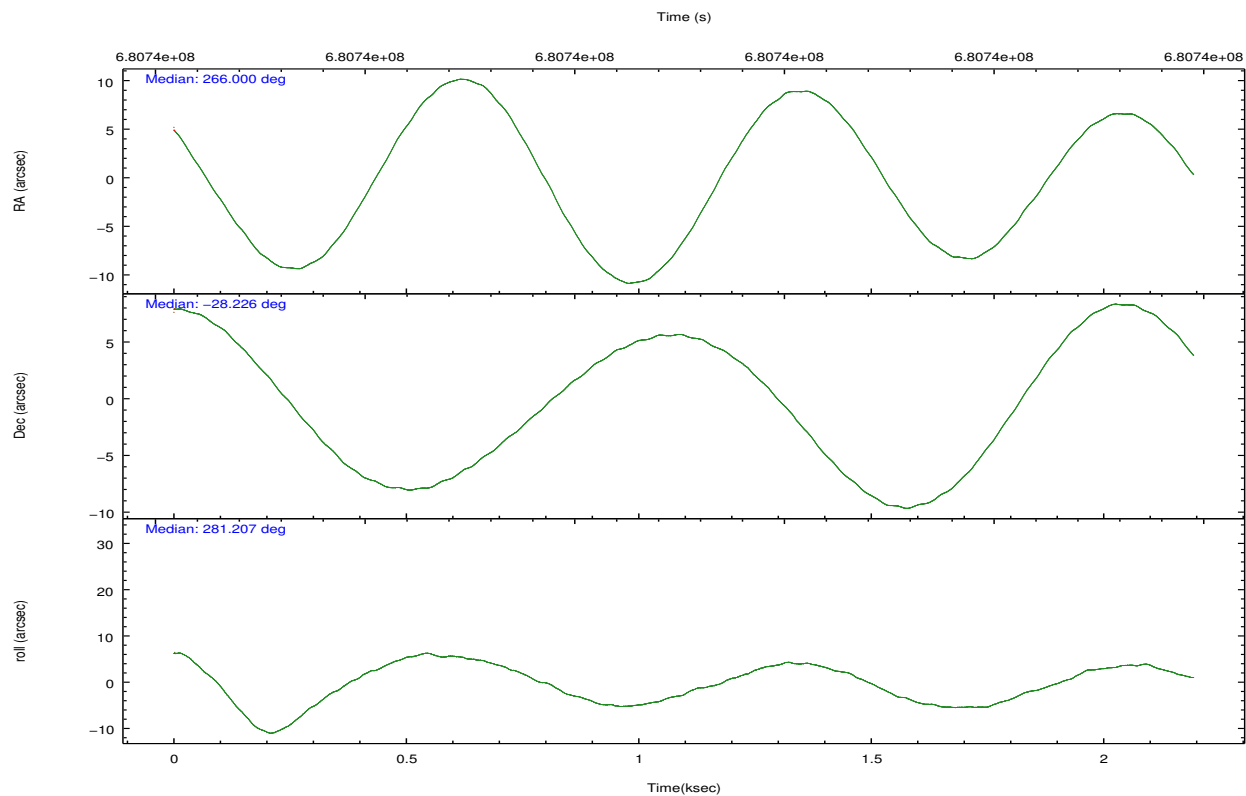
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	733	664	712	600
	5%	4%	4%	4%
grade 1 events	12	10	9	6
	0%	0%	0%	0%
grade 2 events	396	530	426	355
	2%	3%	2%	2%
grade 3 events	188	186	135	145
	1%	1%	0%	1%
grade 4 events	165	180	187	179
	1%	1%	1%	1%
grade 5 events	619	612	580	670
	4%	4%	3%	4%
grade 6 events	353	440	327	337
	2%	2%	2%	2%
grade 7 events	10844	12535	13230	11705
	81%	82%	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	265.978944	265.9997263871843	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.205344	-28.22584601950697	Alternating exposures requested	N	N
[deg] Pointing Roll	280.996872	281.2153906514176	[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)	680740837.184000	680740460.4305			
Observation start date	2019-07-28T22:39:28	2019-07-28T22:34:20			
[s] Observation end time (MET)	680742837.184000	680742970.65565			
Observation end date	2019-07-28T23:12:48	2019-07-28T23:16:10			
Read mode	TIMED	TIMED			

2.3 Aspect



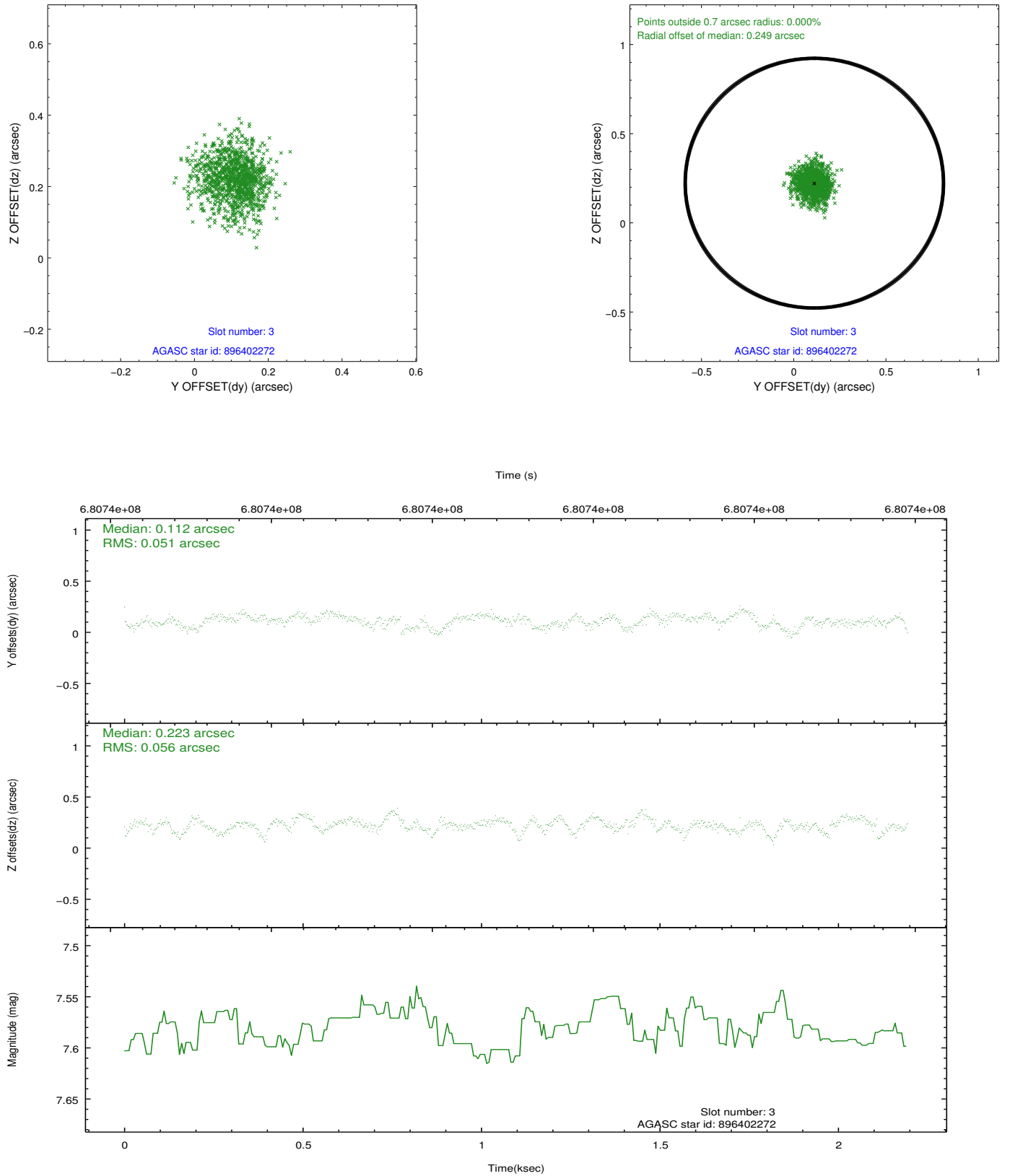


Slot Statistics

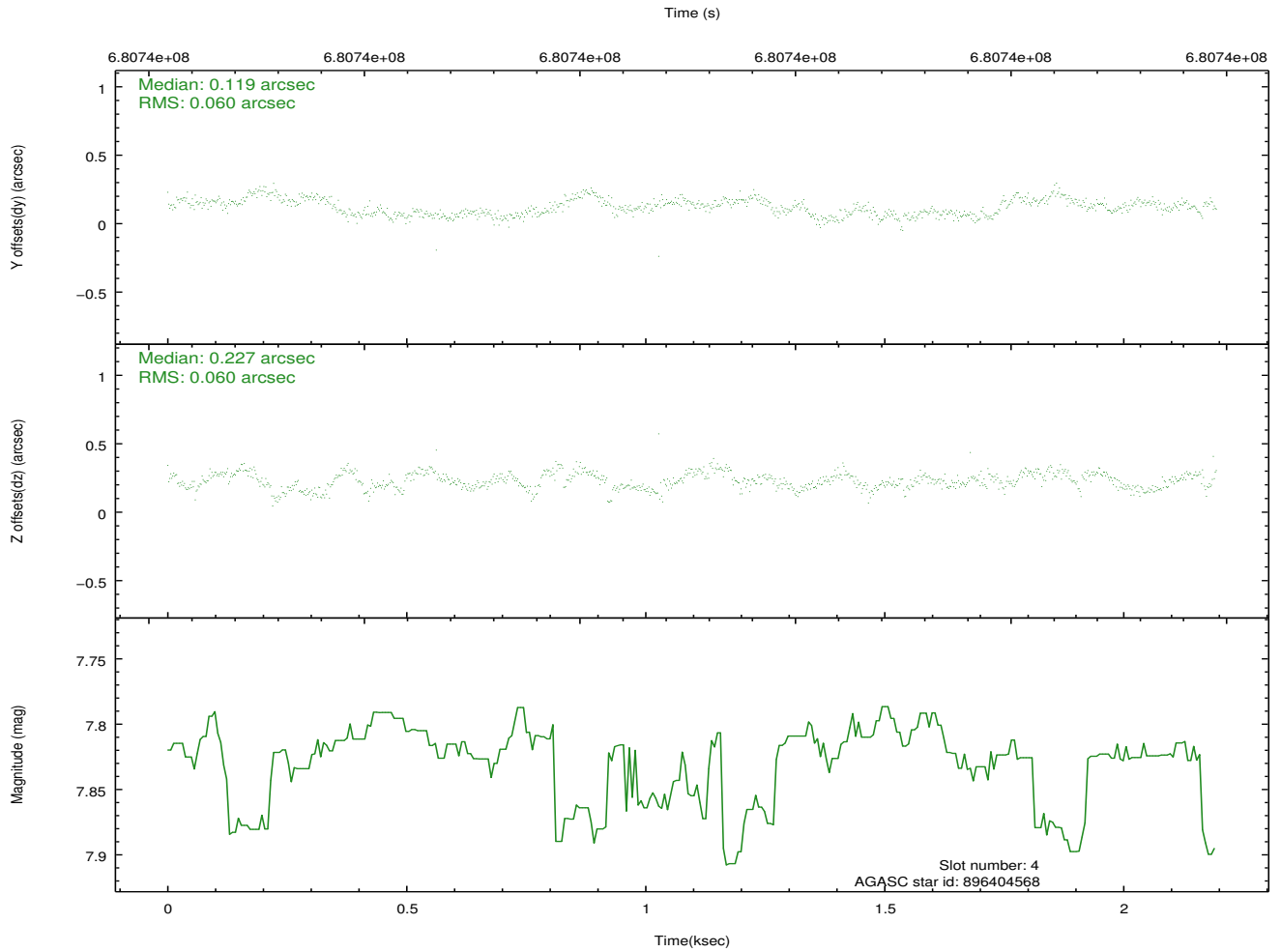
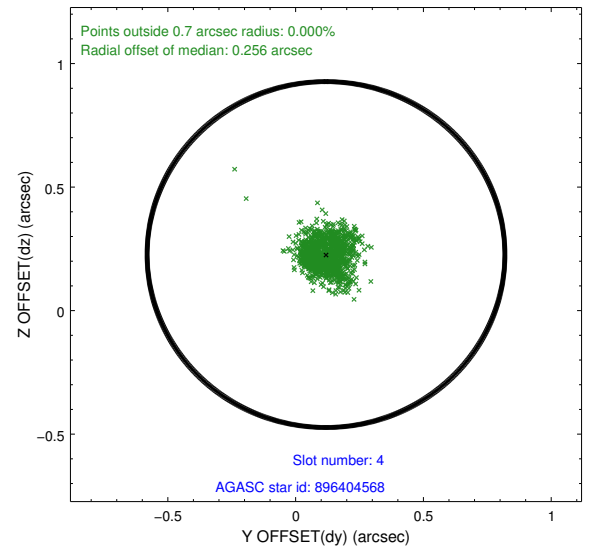
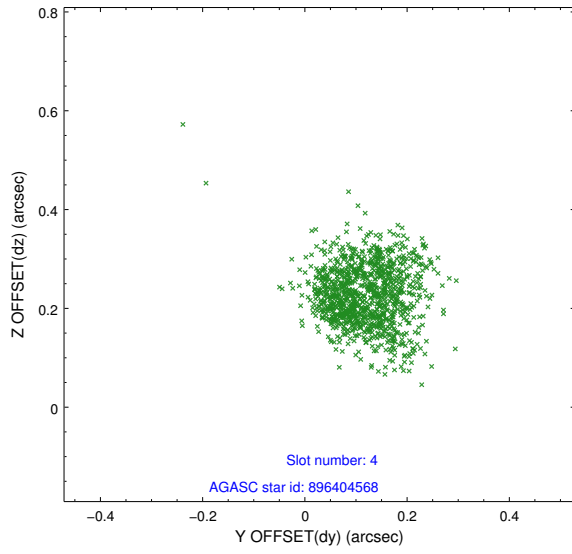
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.26	536	1.000	0.125	-0.115	0.007	0.012	0.000000	0.000000	928.97	-841
1	FID		ACIS-I-5	7.24	536	1.000	-0.479	0.039	0.007	0.012	0.000000	0.000000	-1818.25	1054
2	FID		ACIS-I-6	7.24	536	1.000	0.264	0.147	0.008	0.012	0.000000	0.000000	391.22	1703
3	GUIDE	used	896402272	7.58	1071	1.000	0.112	0.223	0.081	0.134	265.637294	-28.313189	177.39	-1137
4	GUIDE	used	896404568	7.82	1071	1.000	0.119	0.227	0.088	0.143	265.687293	-28.431080	624.19	-1062
5	GUIDE	used	896534664	8.15	1071	1.000	0.027	-0.114	0.098	0.151	266.405570	-28.407461	976.74	1185
6	GUIDE	used	896537176	8.00	1071	1.000	-0.098	-0.252	0.080	0.129	266.498272	-28.678259	1989.54	1285
7	GUIDE	used	896538696	6.78	1069	1.000	-0.154	-0.075	0.059	0.095	266.298470	-28.325572	621.95	912

2.4 Star Slots

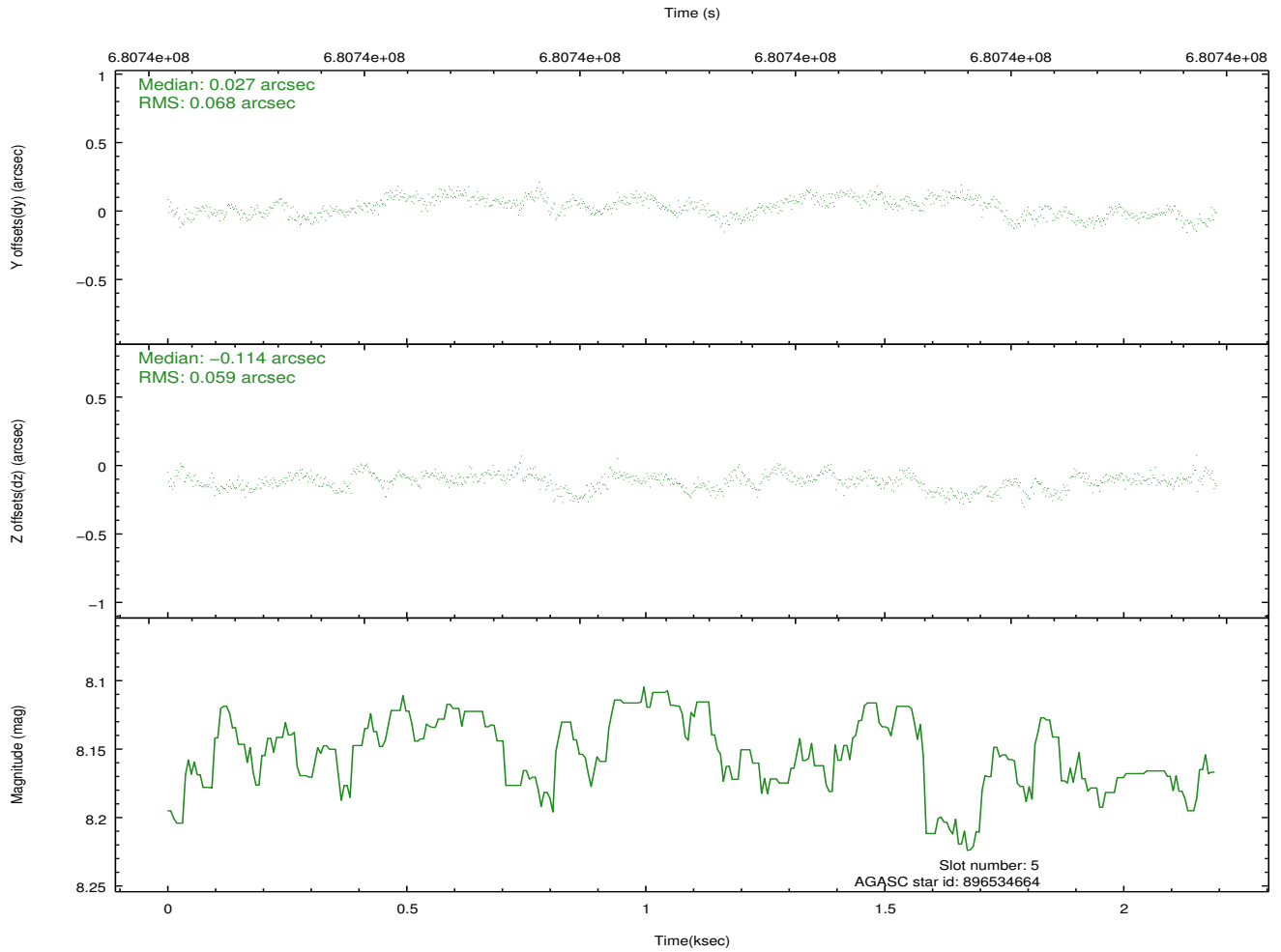
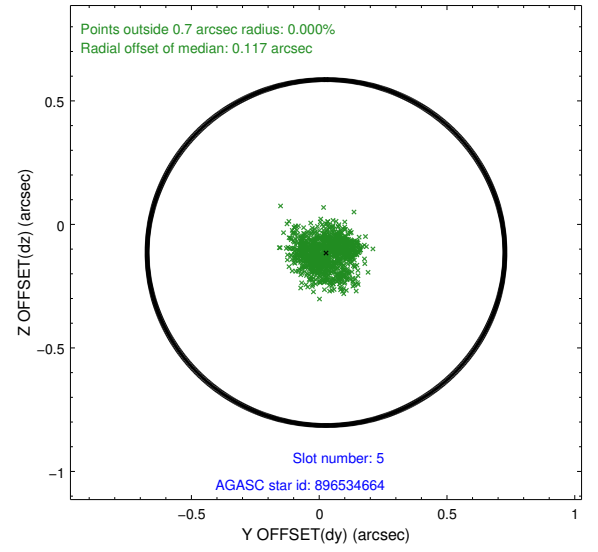
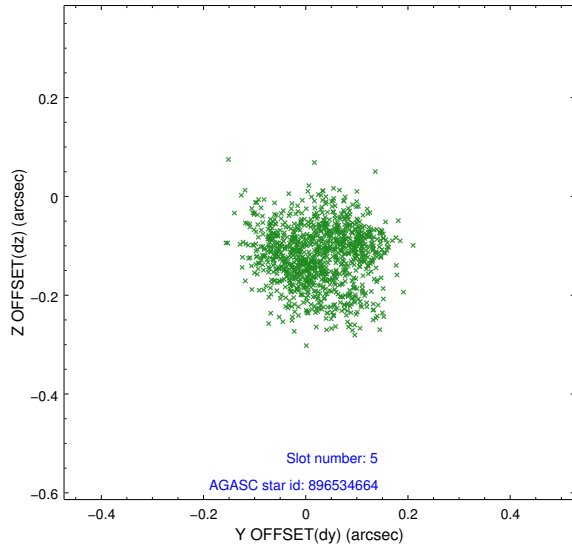
2.4.1 Slot 3



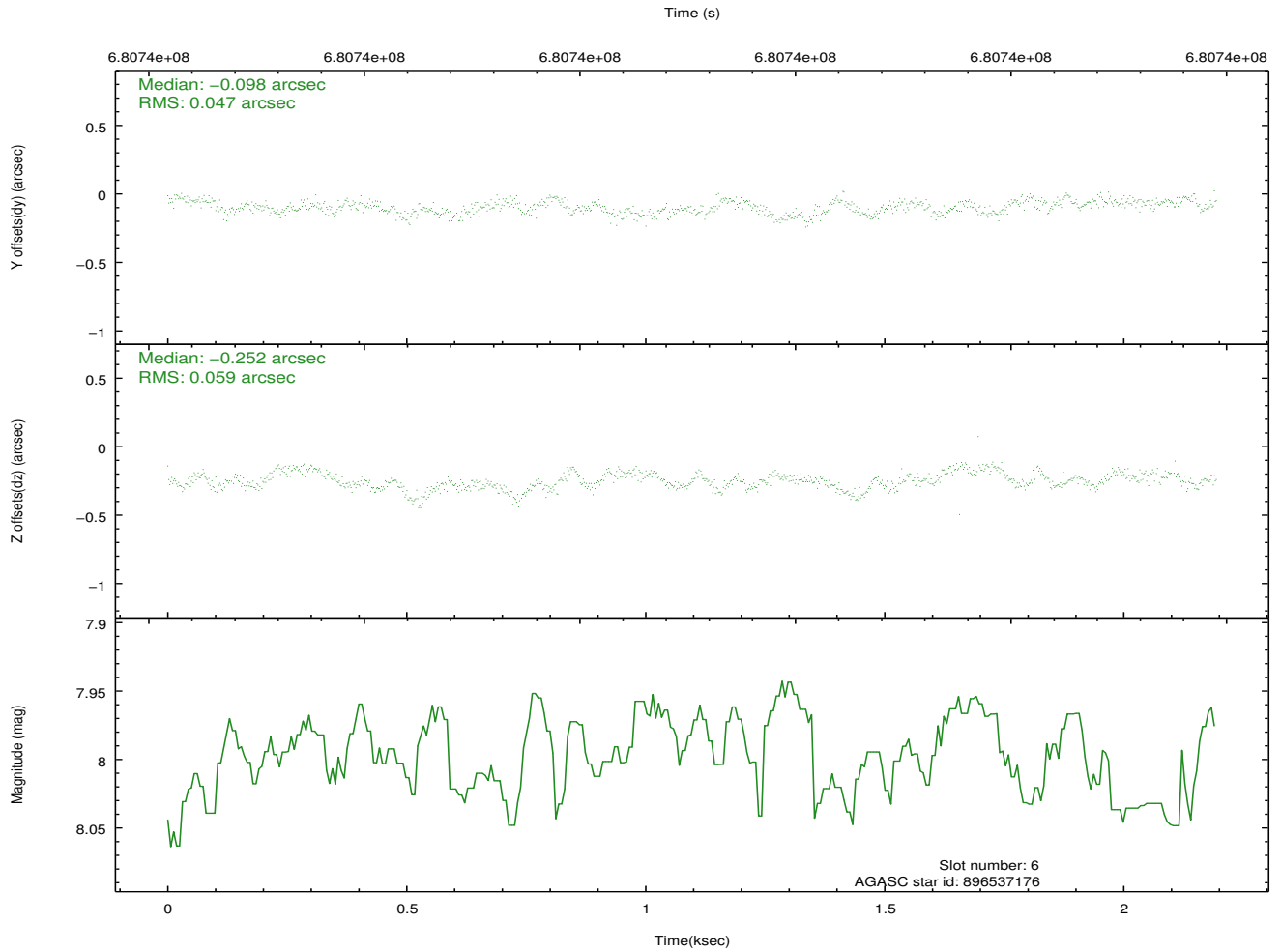
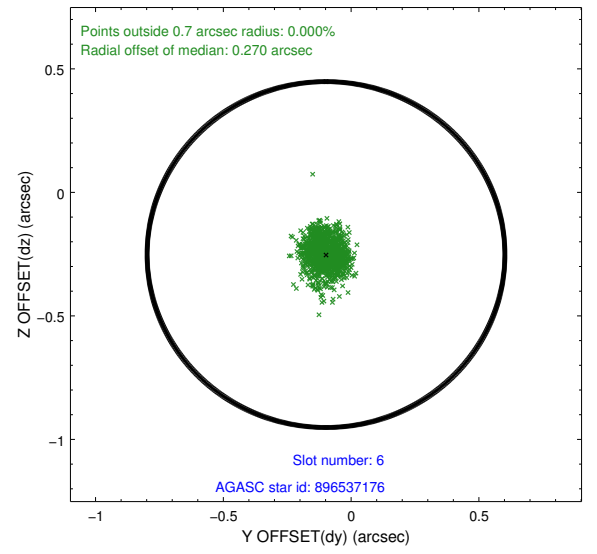
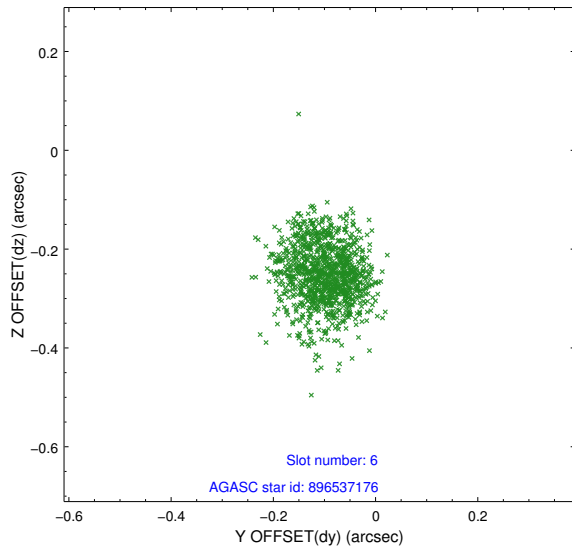
2.4.2 Slot 4



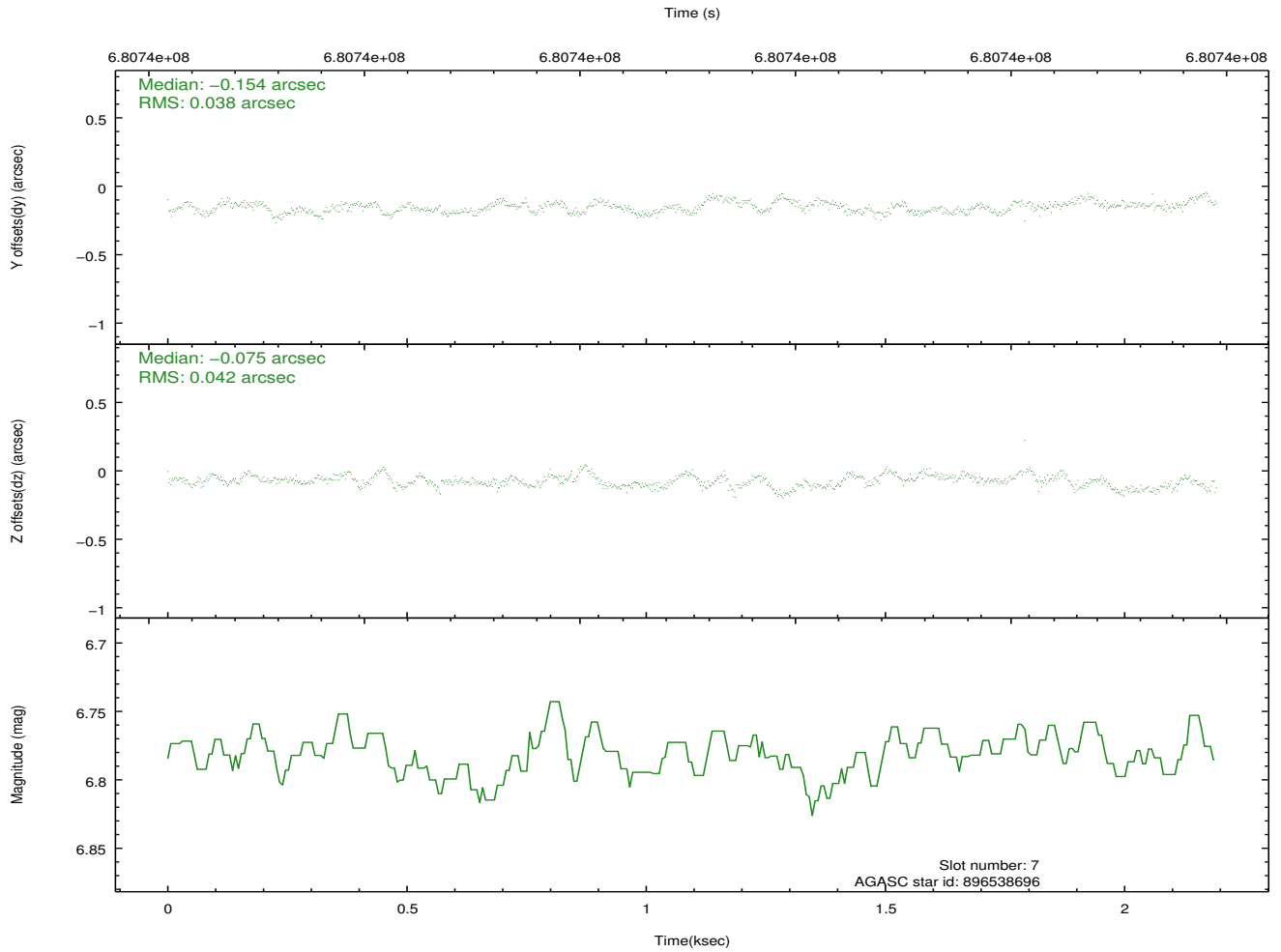
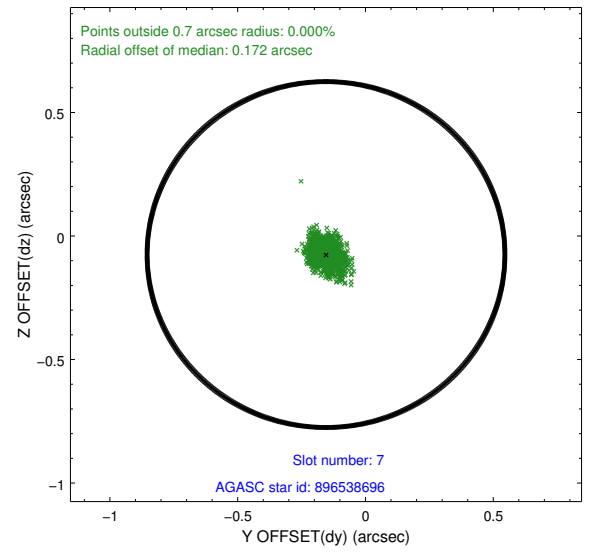
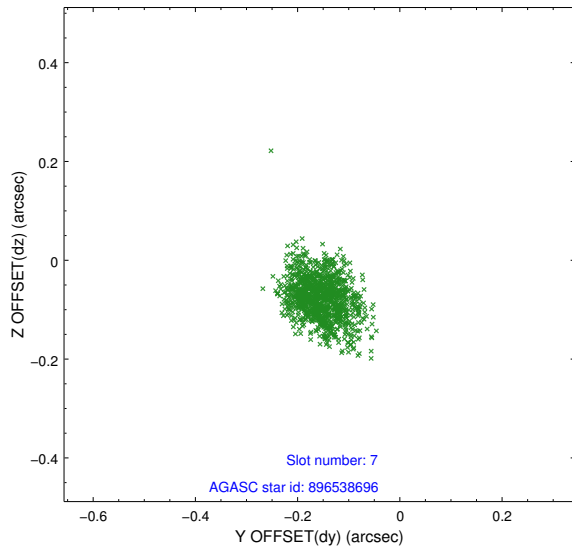
2.4.3 Slot 5



2.4.4 Slot 6

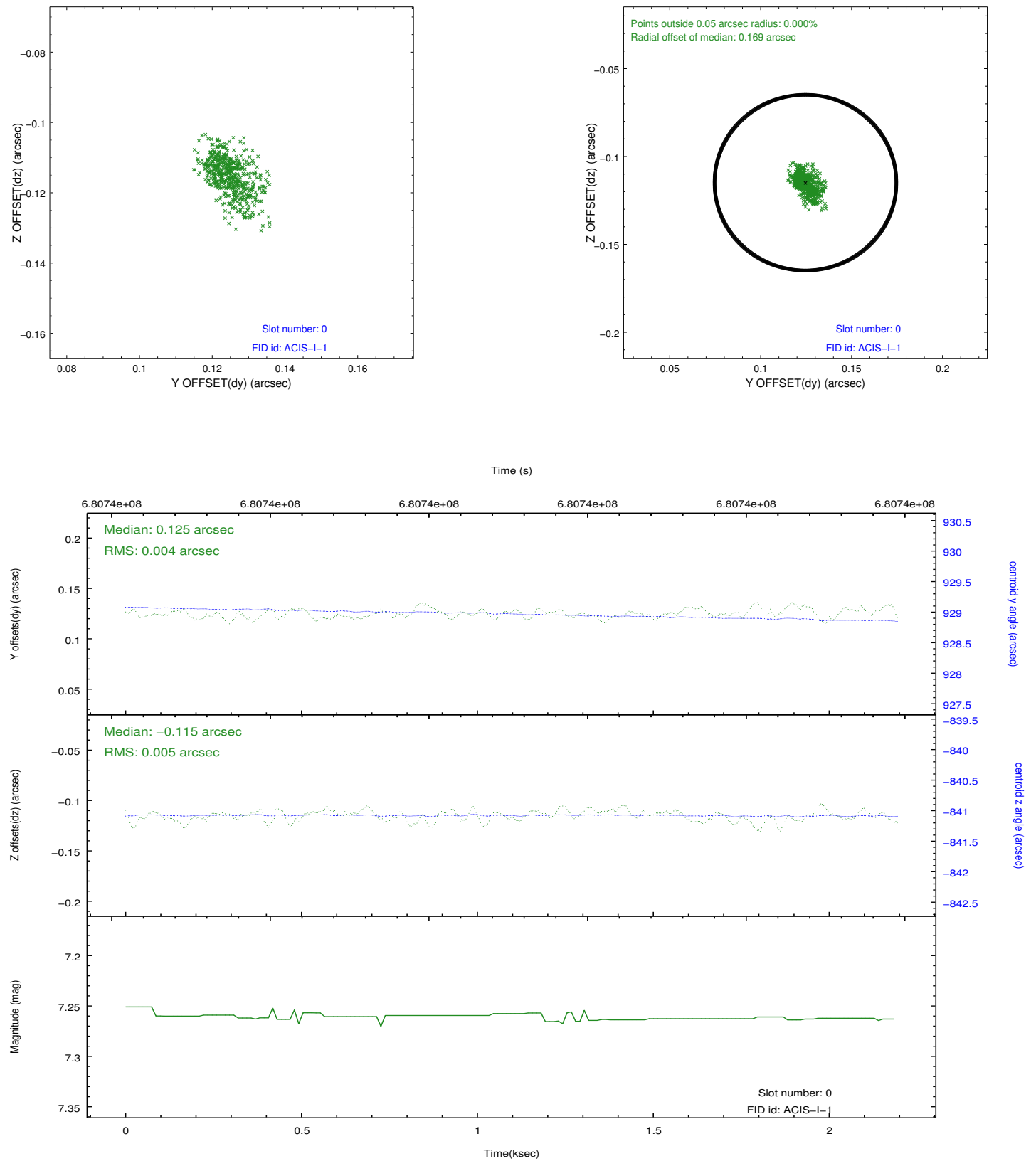


2.4.5 Slot 7

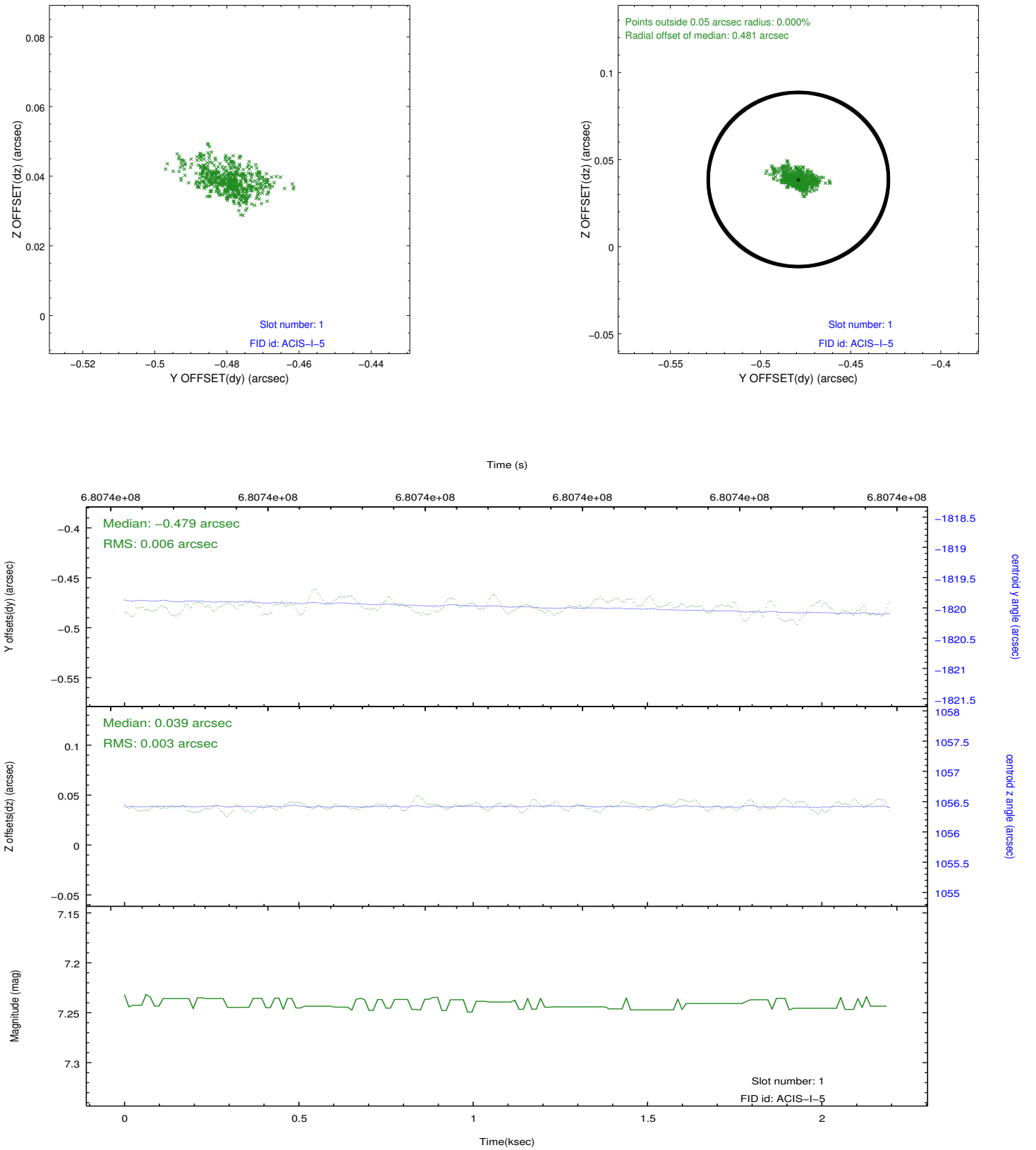


2.5 FID Slots

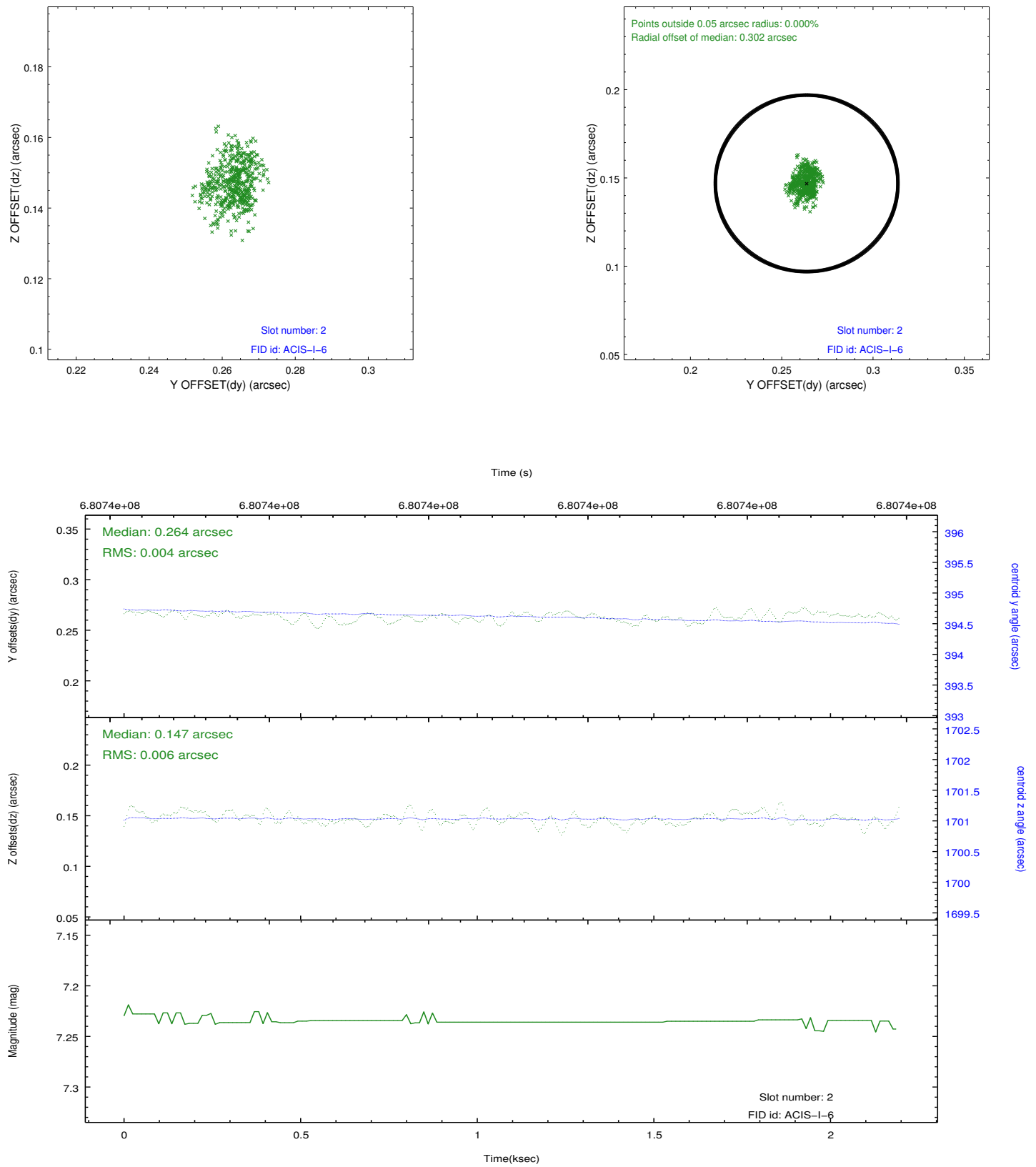
2.5.1 Slot 0



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	1.906500014782

A.2 Comments