

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21621 - L2 Version 1
Chandra X-Ray Center

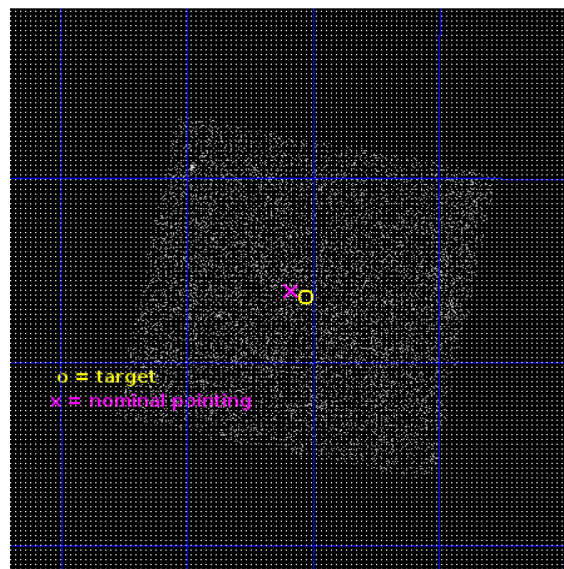
L2 Processing Date : Jul 29 2019

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1 Front

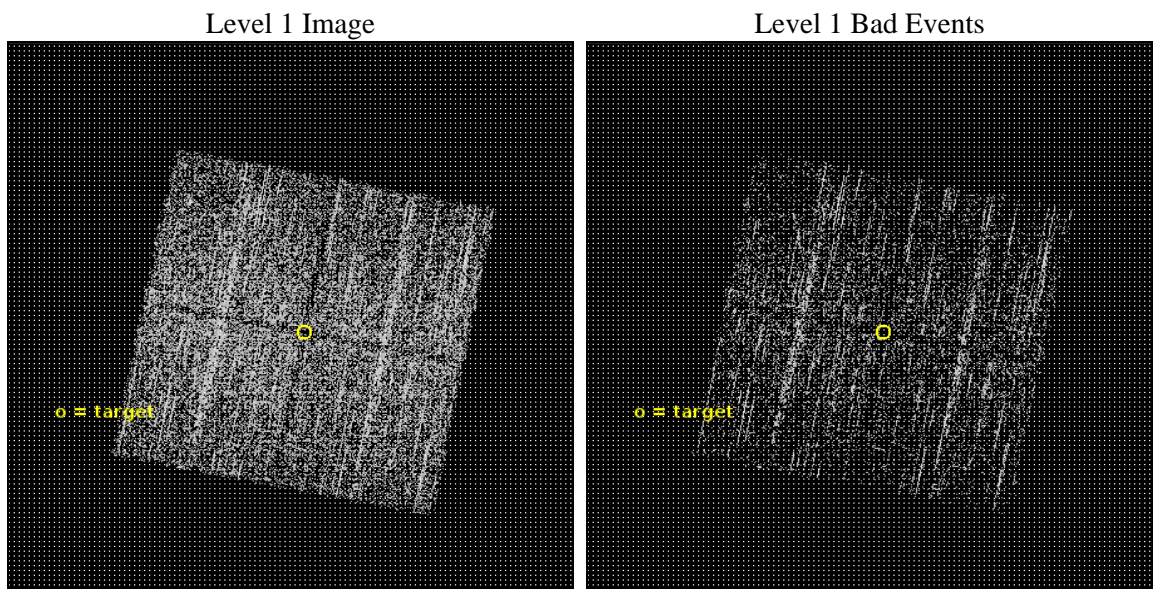
seq_num	300453	Sequence number
obs_id	21621	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.25711	Observer's specified target RA [deg]
dec_targ	-28.274979	Observer's specified target Dec [deg]
ra_nom	266.2712190466	Nominal RA [deg]
dec_nom	-28.268611350839	Nominal Dec [deg]
roll_nom	281.21538548882	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.0697613955	Sum of GTIs [s]
livetime	1883.1394252623	Livetime [s]
ontime0	1908.0287214518	Sum of GTIs [s]
ontime1	1908.0697613955	Sum of GTIs [s]
ontime2	1908.1108016968	Sum of GTIs [s]
ontime3	1908.1518416405	Sum of GTIs [s]
l2events	6871	Number of level 2 events



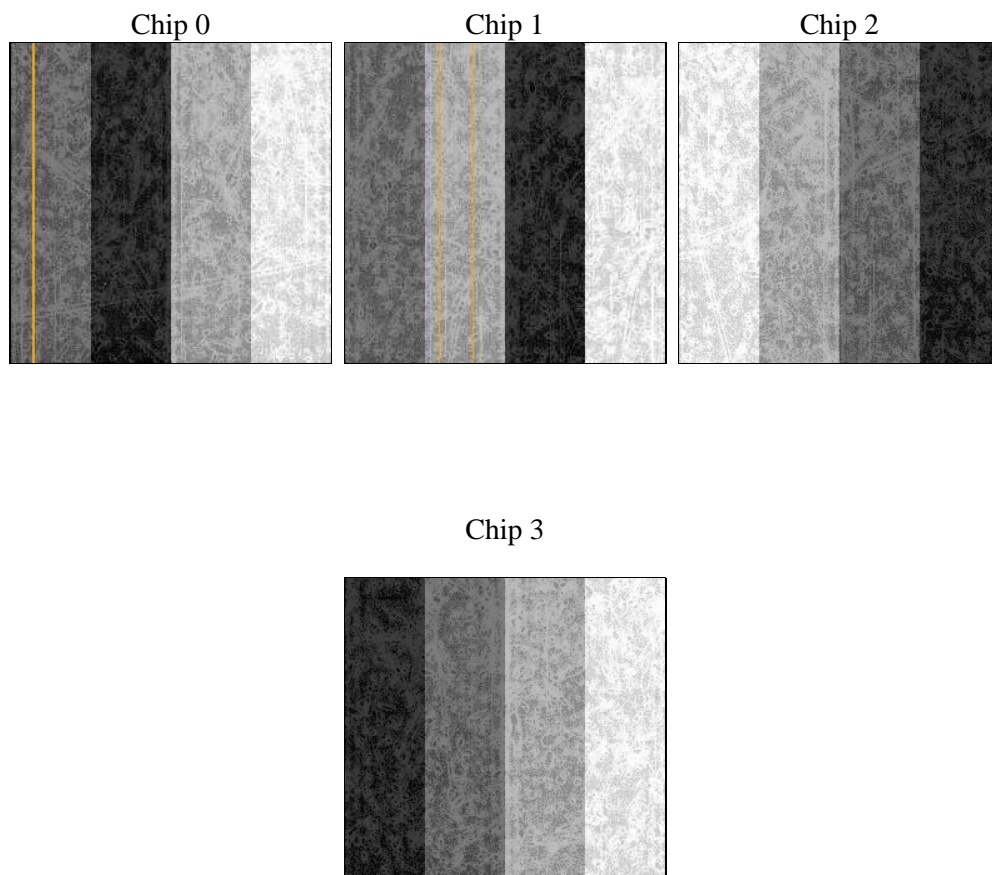
2 OBI

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	1908.0697613955	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.0287214518	Sum of GTIs [s]
date	2019-07-29T04:42:45	Date and time of file creation	ontime1	1908.0697613955	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.1108016968	Sum of GTIs [s]
			ontime3	1908.1518416405	Sum of GTIs [s]
			l1events	57322	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13394	14266	15261	14401
rejected events	11317	12180	13239	12545
rejected %	84%	85%	86%	87%

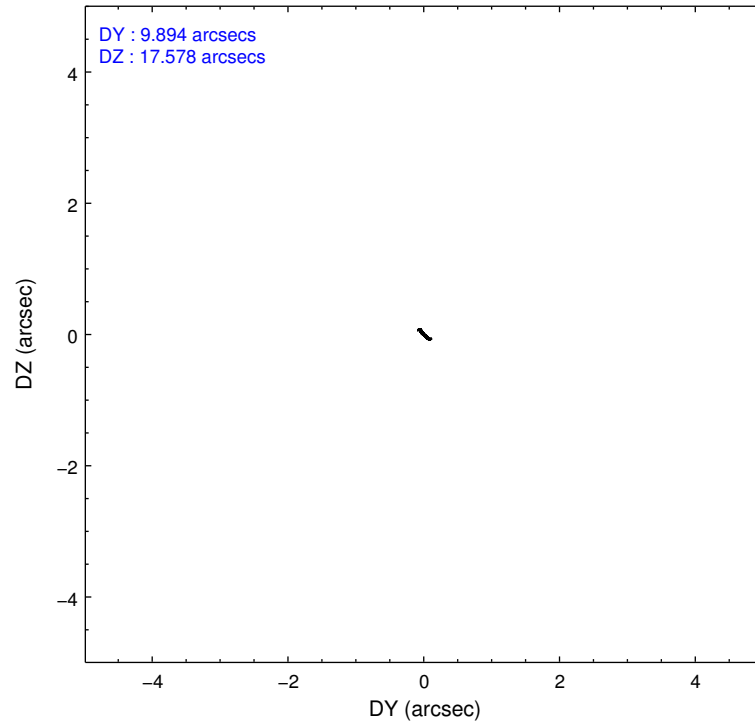
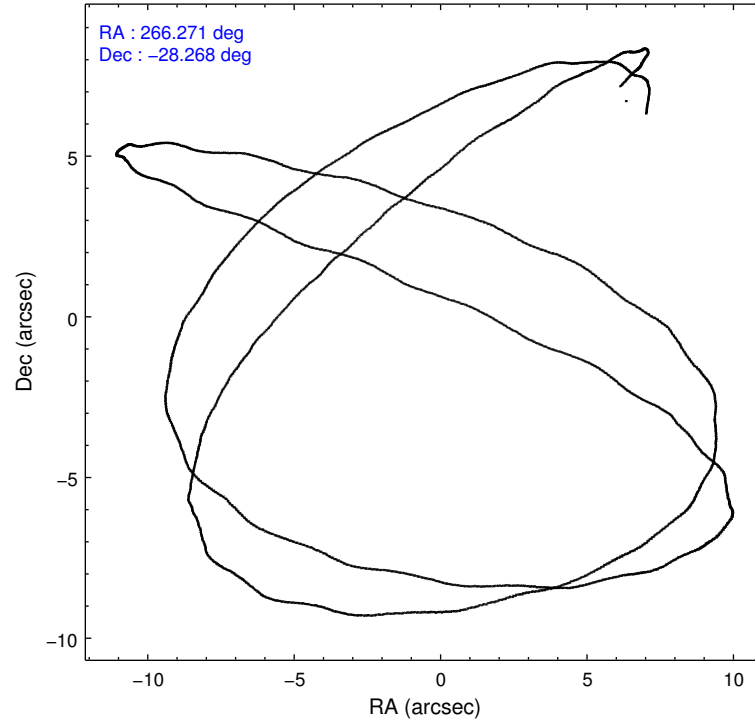
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	878	744	880	783
	6%	5%	5%	5%
grade 1 events	8	11	13	4
	0%	0%	0%	0%
grade 2 events	449	535	416	365
	3%	3%	2%	2%
grade 3 events	175	193	188	167
	1%	1%	1%	1%
grade 4 events	214	157	182	186
	1%	1%	1%	1%
grade 5 events	586	652	612	716
	4%	4%	4%	4%
grade 6 events	367	463	361	360
	2%	3%	2%	2%
grade 7 events	10717	11511	12609	11820
	80%	80%	82%	82%

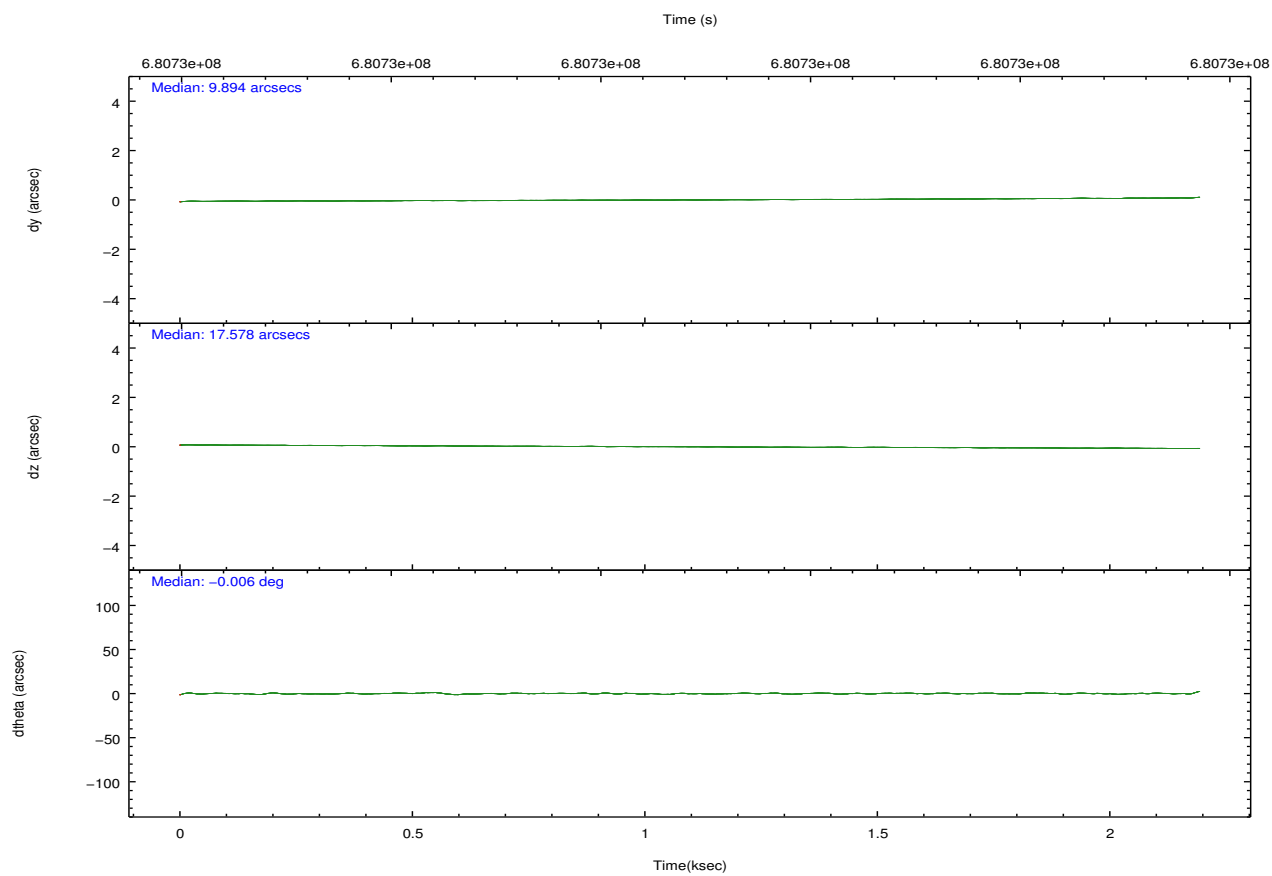
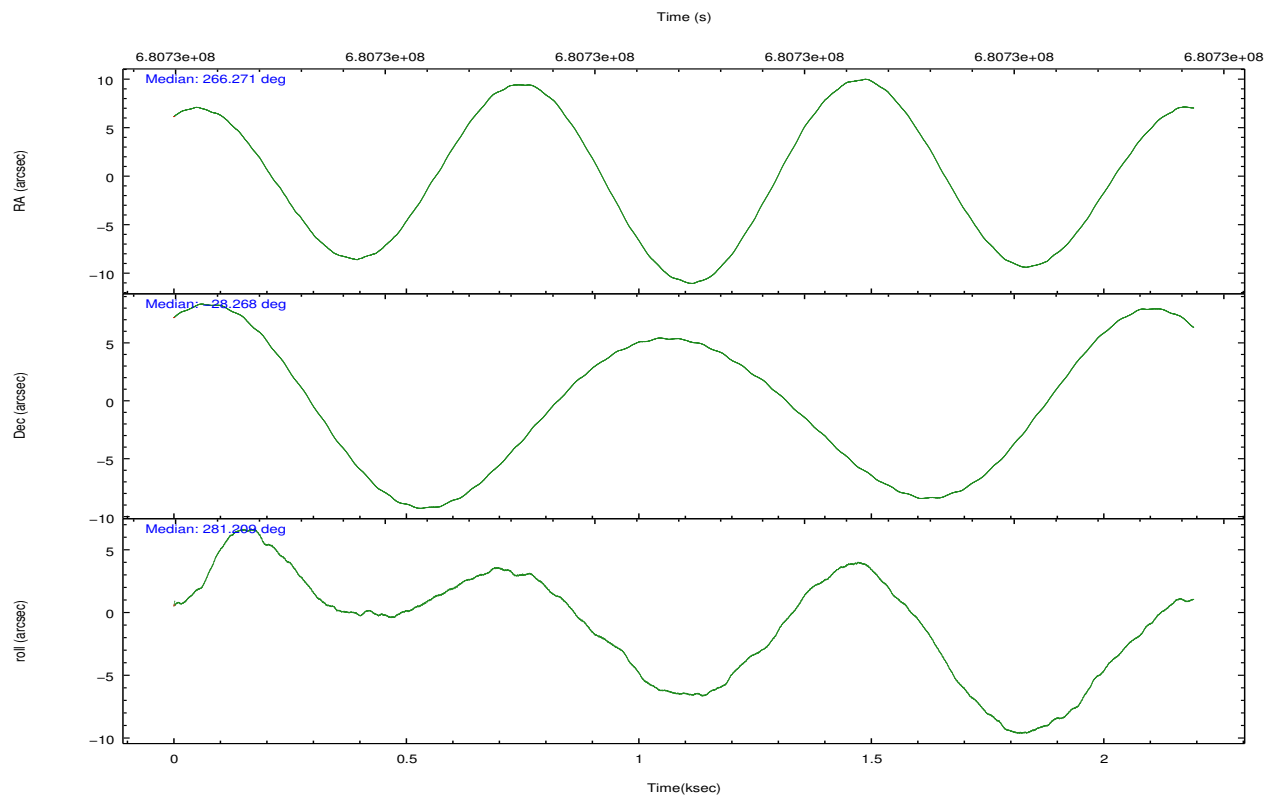
2.2 Compared Parameters

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	266.250394	266.2712190465954
[deg] Pointing Dec	-28.248111	-28.26861135083919
[deg] Pointing Roll	280.996822	281.2153854888221
[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)	680730797.184000	680730420.5549001
Observation start date	2019-07-28T19:52:08	2019-07-28T19:47:00
[s] Observation end time (MET)	680732797.184000	680732930.78005
Observation end date	2019-07-28T20:25:28	2019-07-28T20:28:50
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



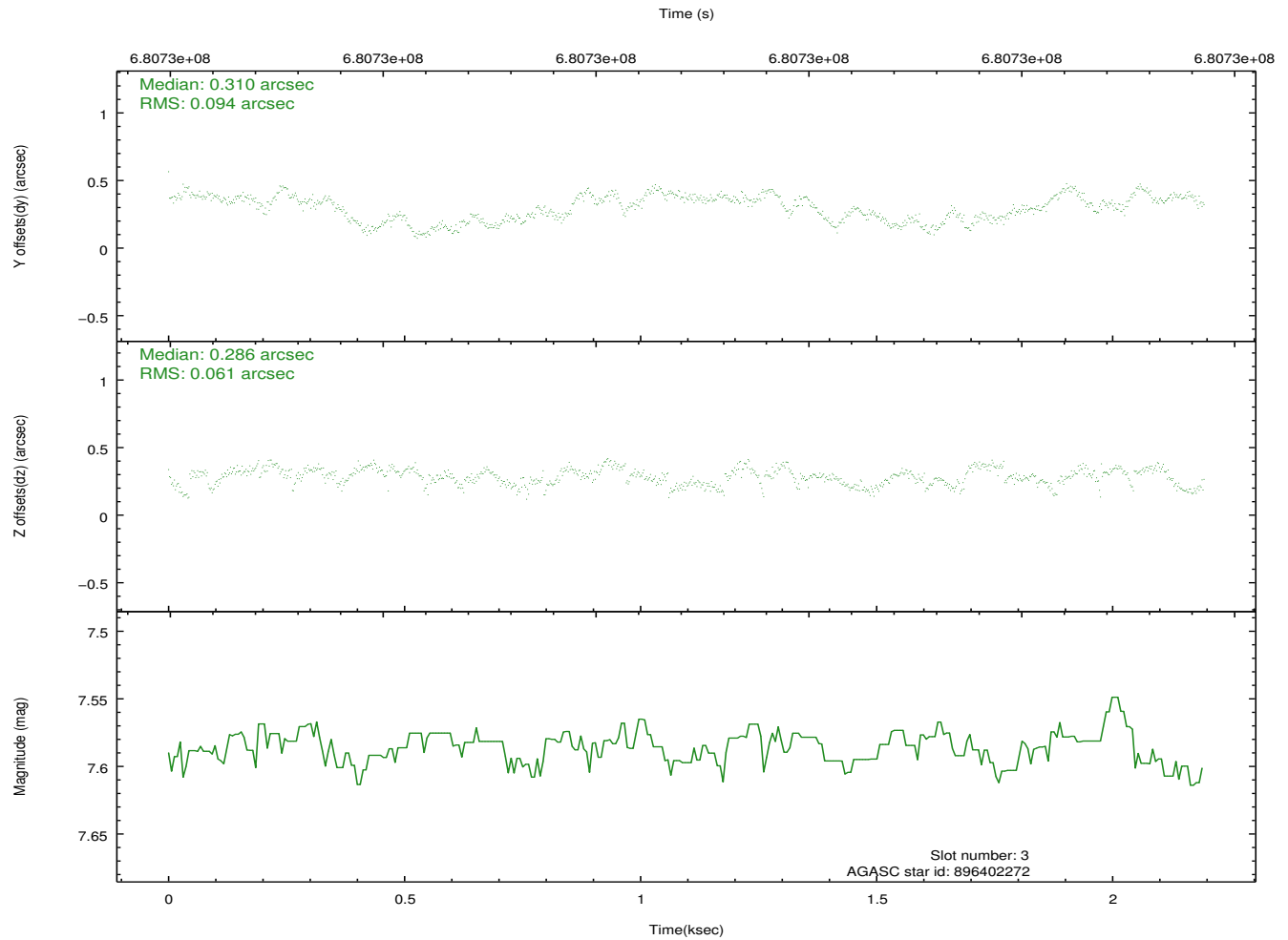
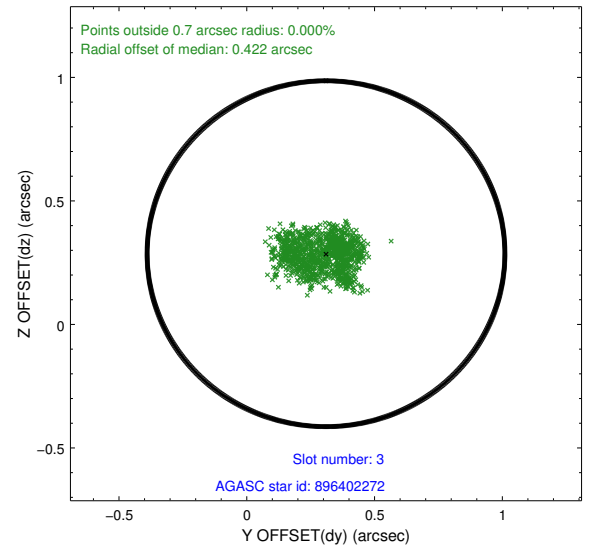
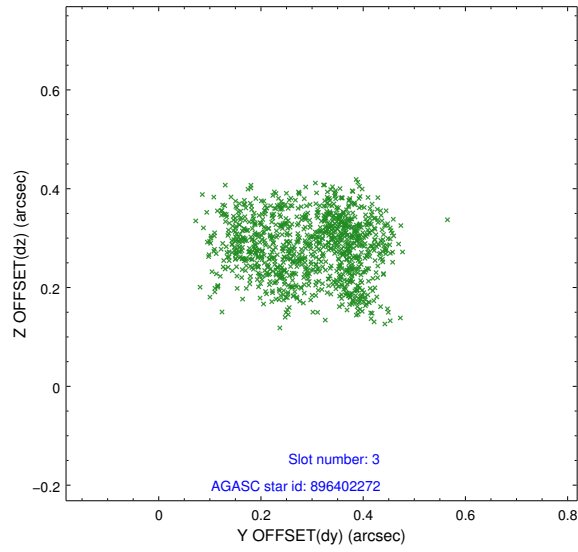


Slot Statistics

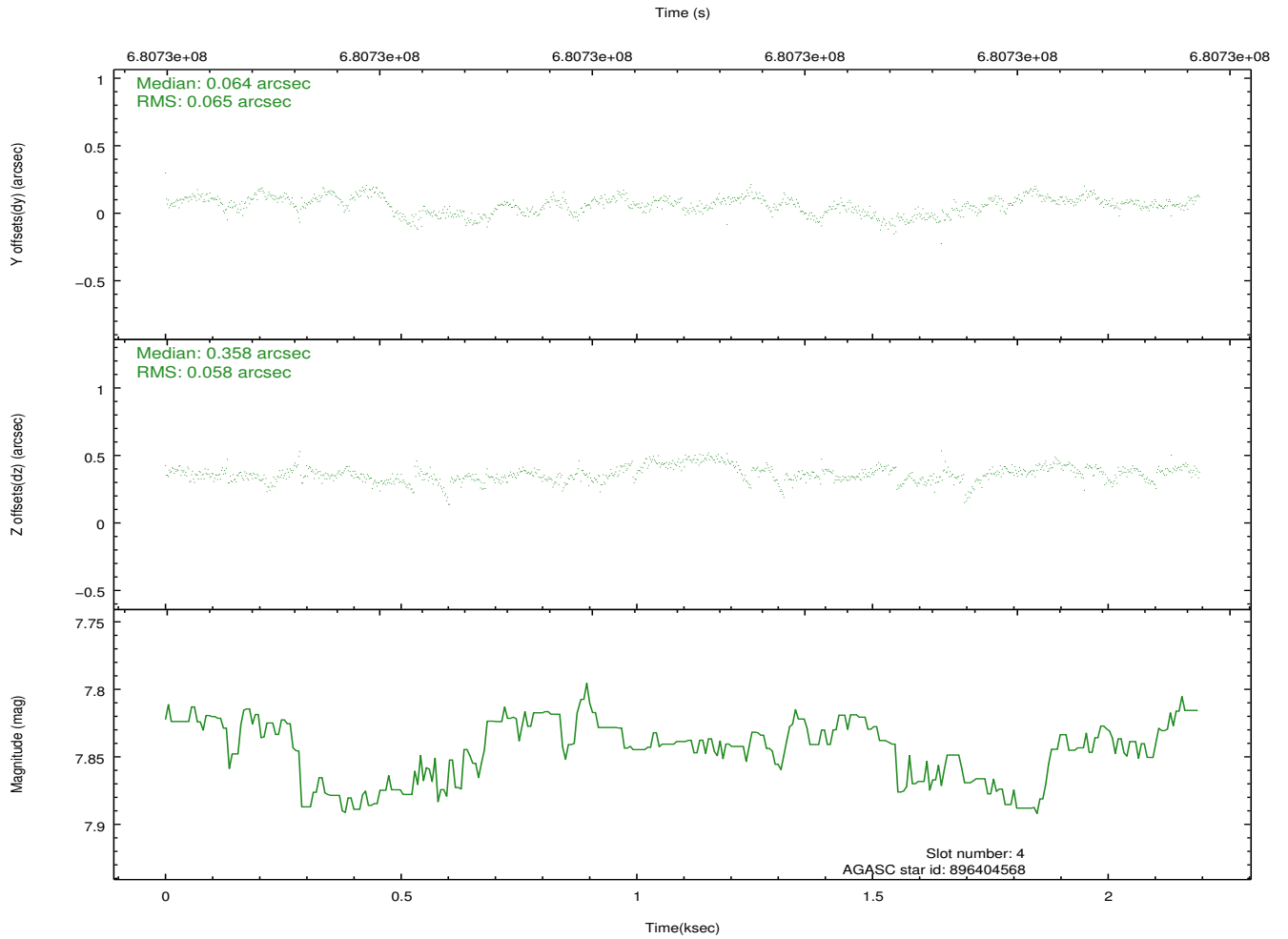
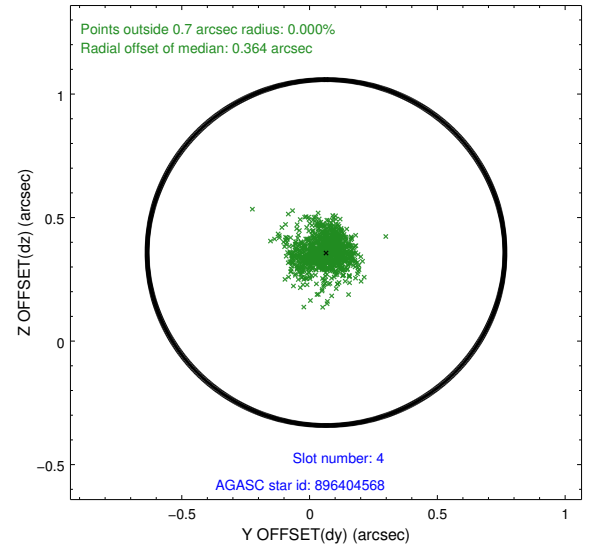
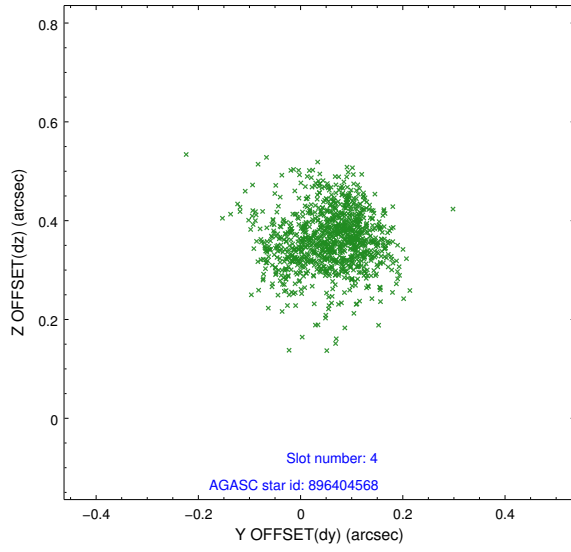
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	536	1.000	0.118	-0.099	0.007	0.012	0.000000	0.000000	929.88	-841
1	FID		ACIS-I-5	7.22	536	1.000	-0.456	0.041	0.006	0.010	0.000000	0.000000	-1817.30	1054
2	FID		ACIS-I-6	7.21	536	1.000	0.247	0.127	0.007	0.014	0.000000	0.000000	392.14	1702
3	GUIDE	used	896402272	7.59	1071	1.000	0.310	0.286	0.123	0.183	265.637294	-28.313189	-134.27	-1953
4	GUIDE	used	896404568	7.84	1069	1.000	0.064	0.358	0.091	0.151	265.687293	-28.431080	311.84	-1878
5	GUIDE	used	896537176	8.00	1070	1.000	-0.085	-0.289	0.099	0.143	266.498272	-28.678259	1671.70	470
6	GUIDE	used	896538696	6.78	1071	1.000	-0.192	-0.152	0.078	0.120	266.298470	-28.325572	305.23	96
7	GUIDE	used	896541576	8.13	1070	1.000	-0.076	-0.190	0.102	0.148	267.051055	-28.762912	2310.55	2125

2.4 Star Slots

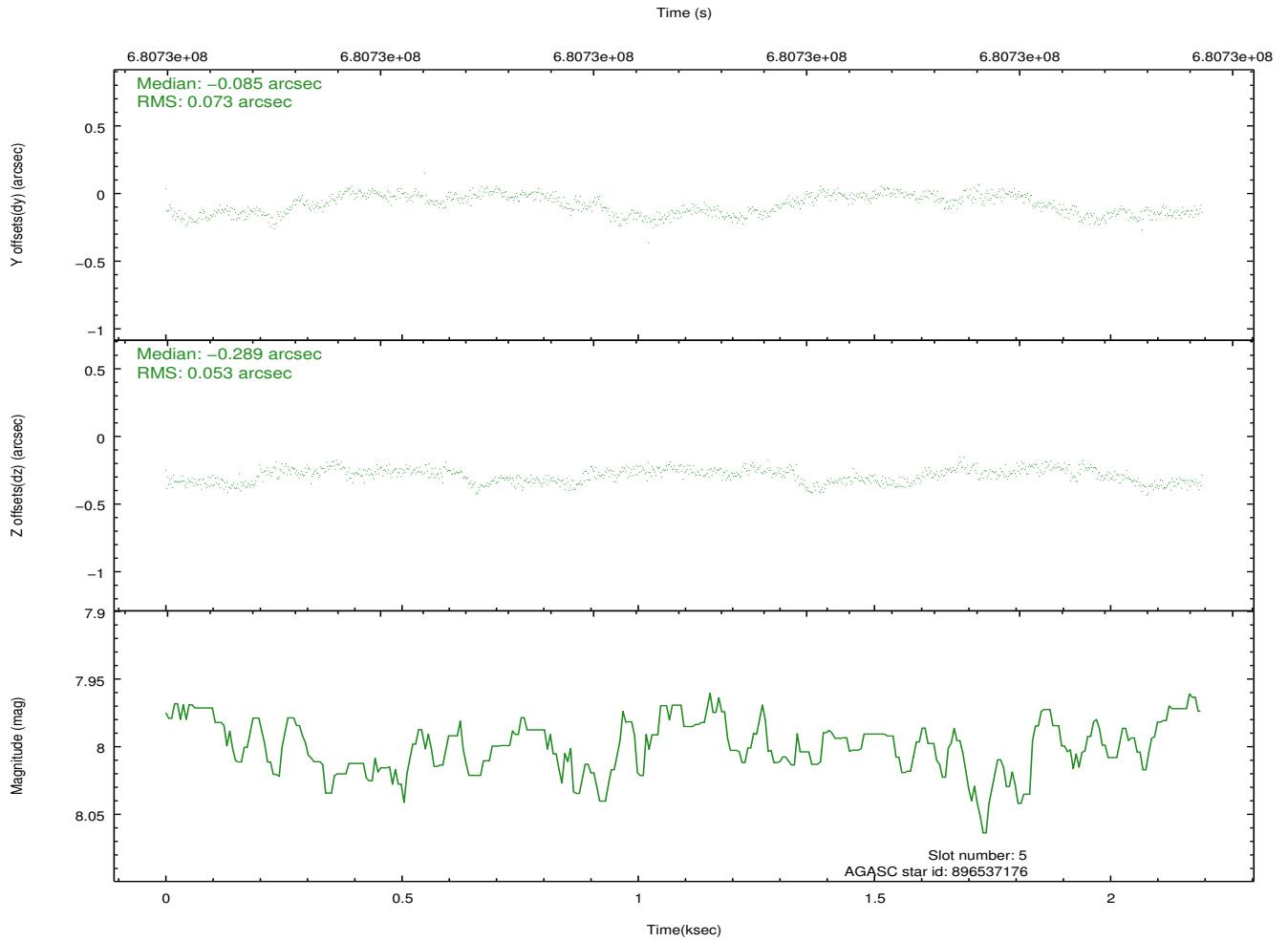
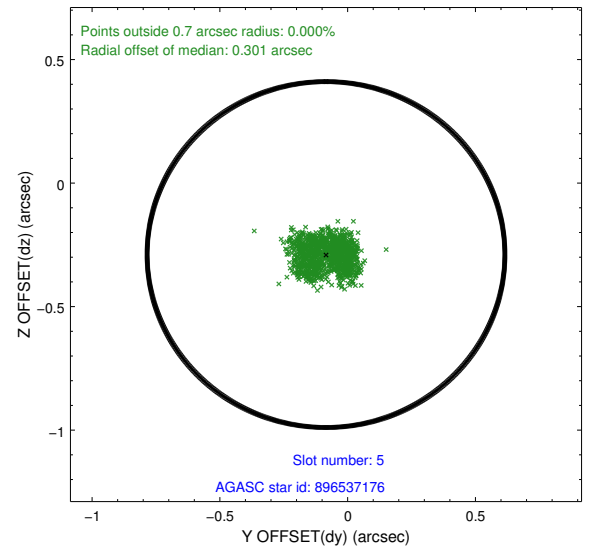
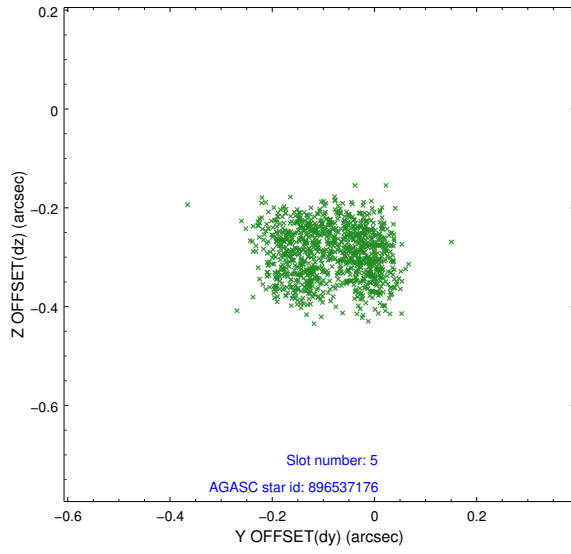
2.4.1 Slot 3



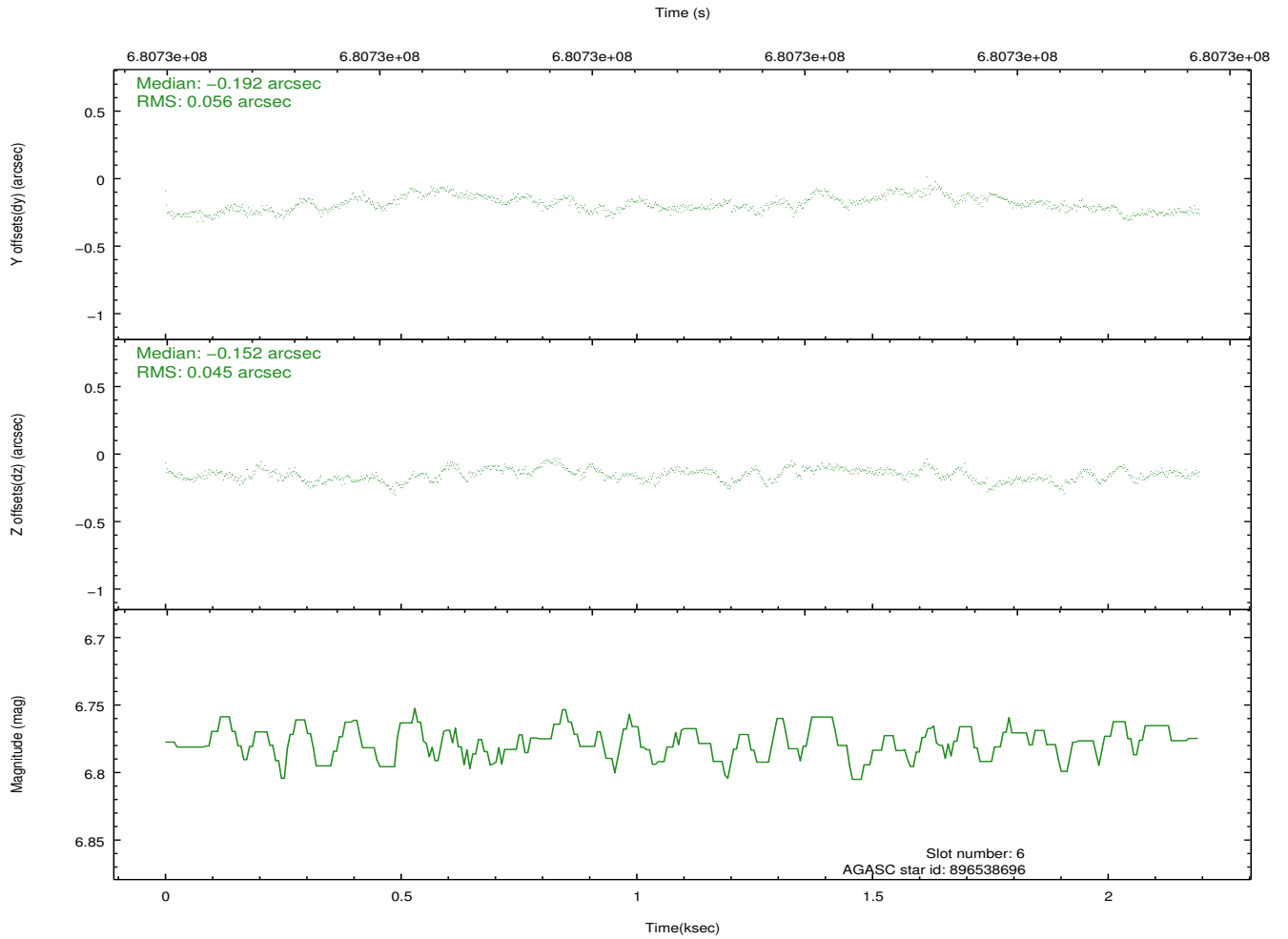
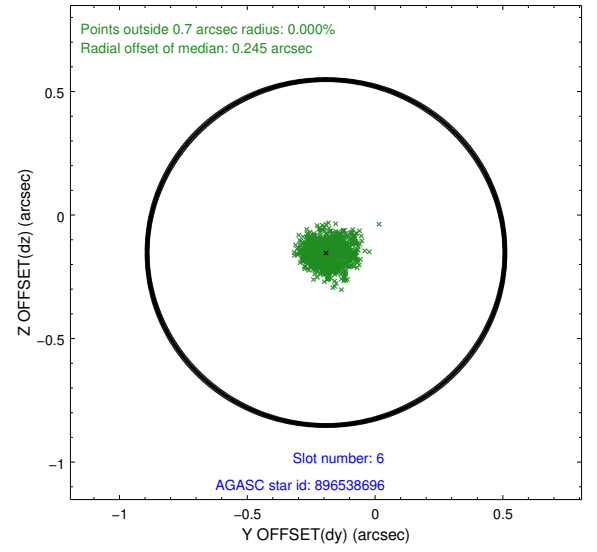
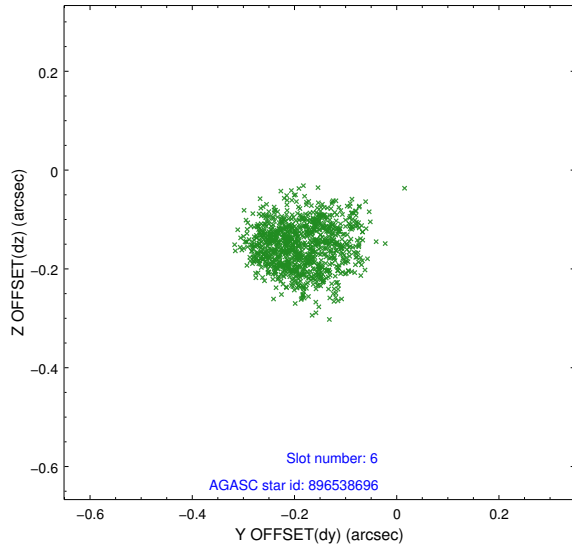
2.4.2 Slot 4



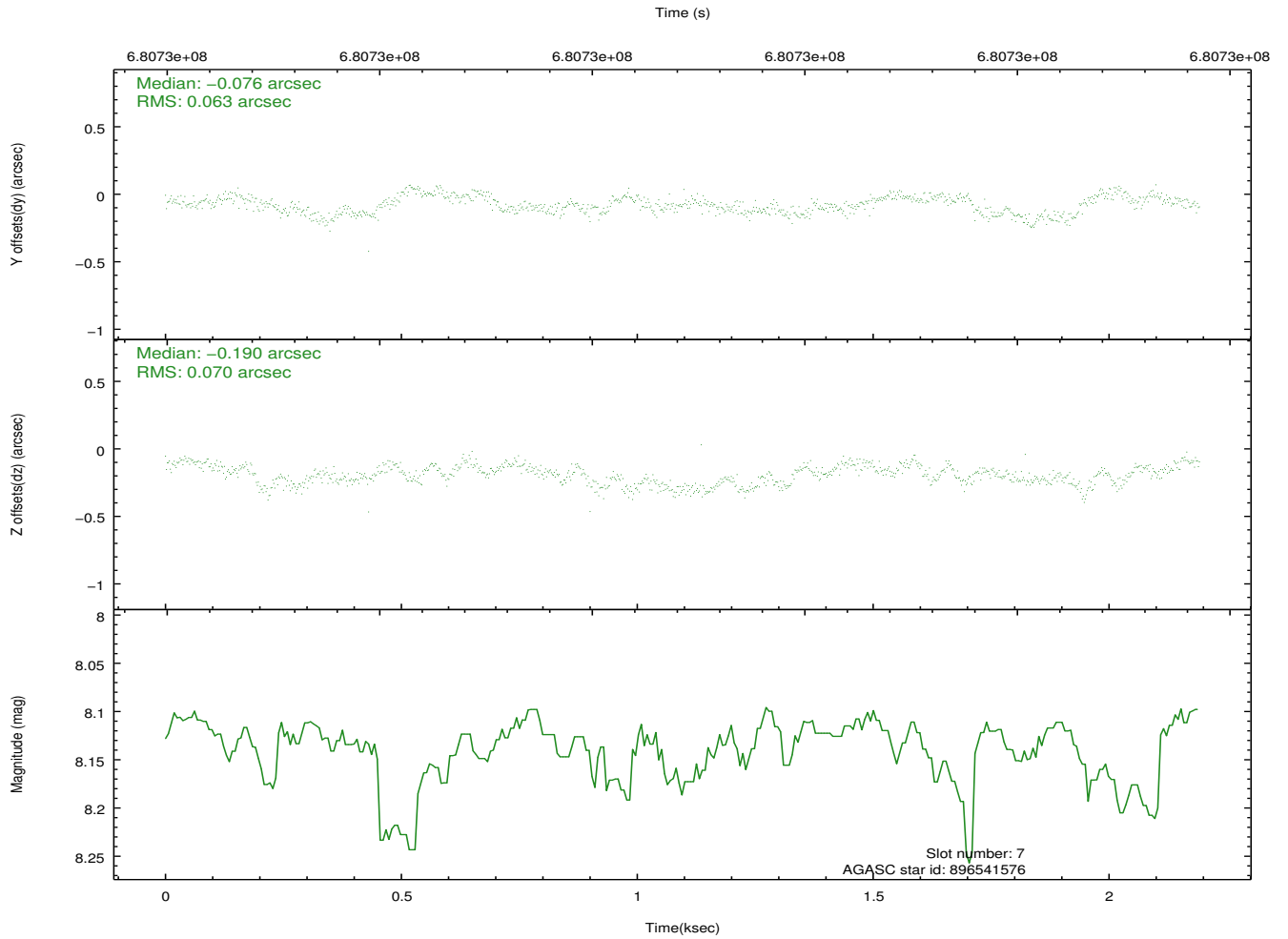
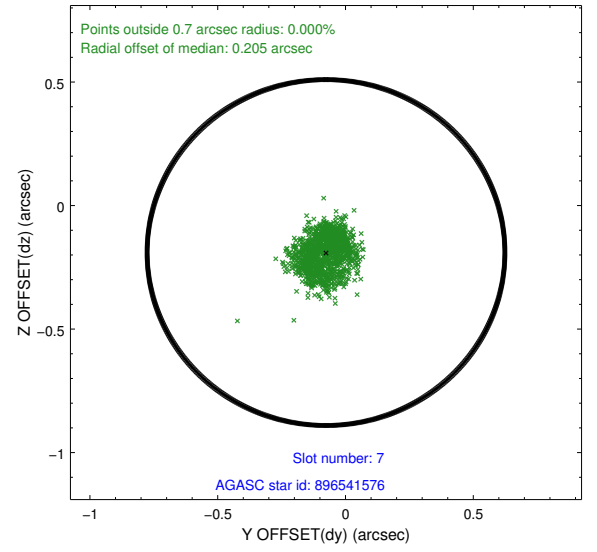
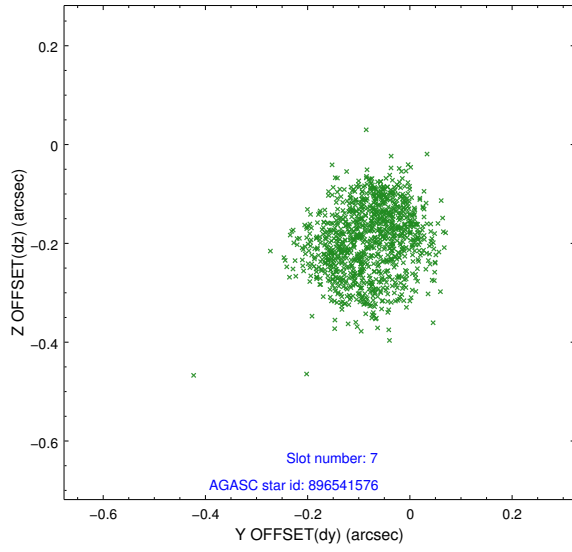
2.4.3 Slot 5



2.4.4 Slot 6

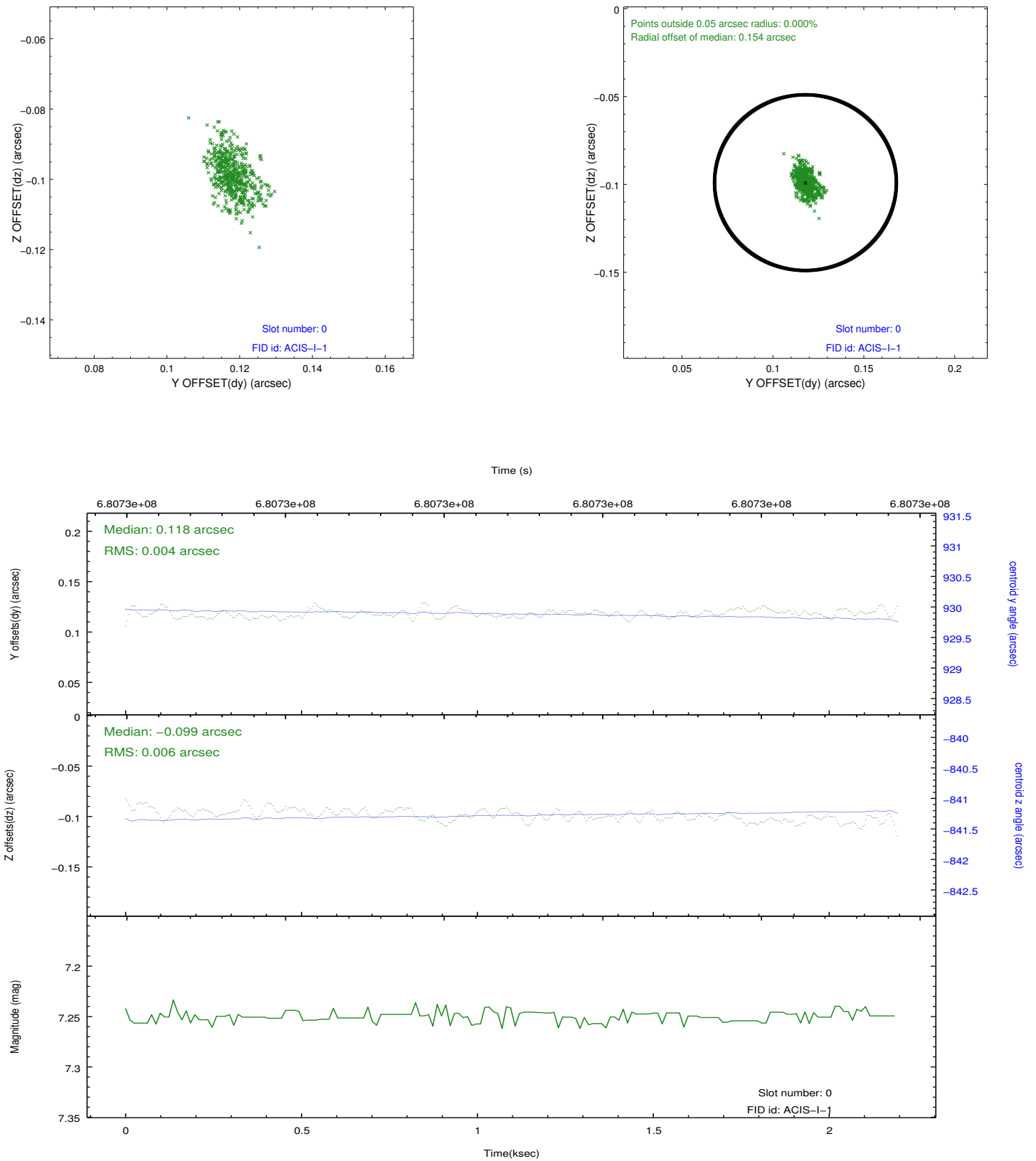


2.4.5 Slot 7

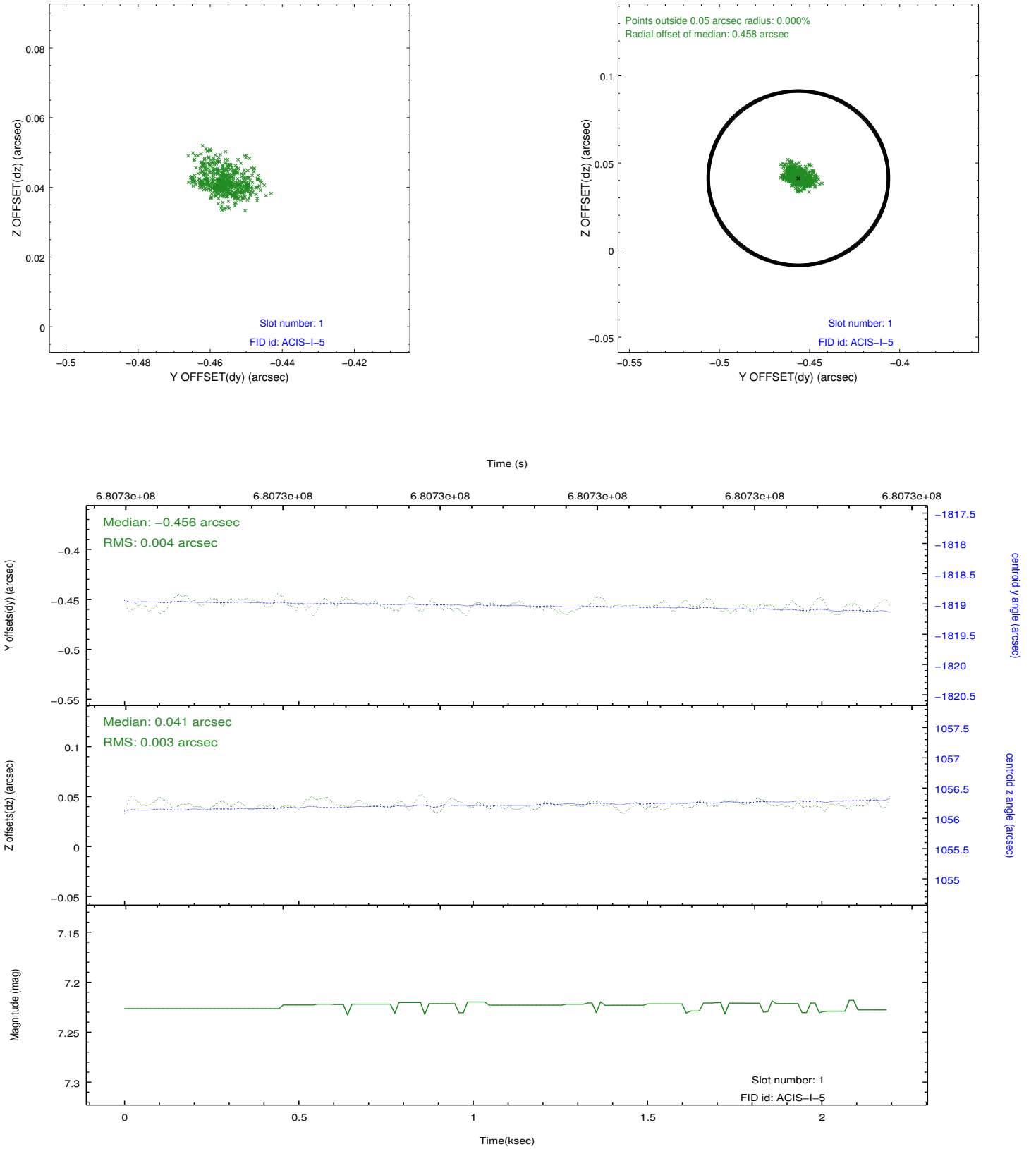


2.5 FID Slots

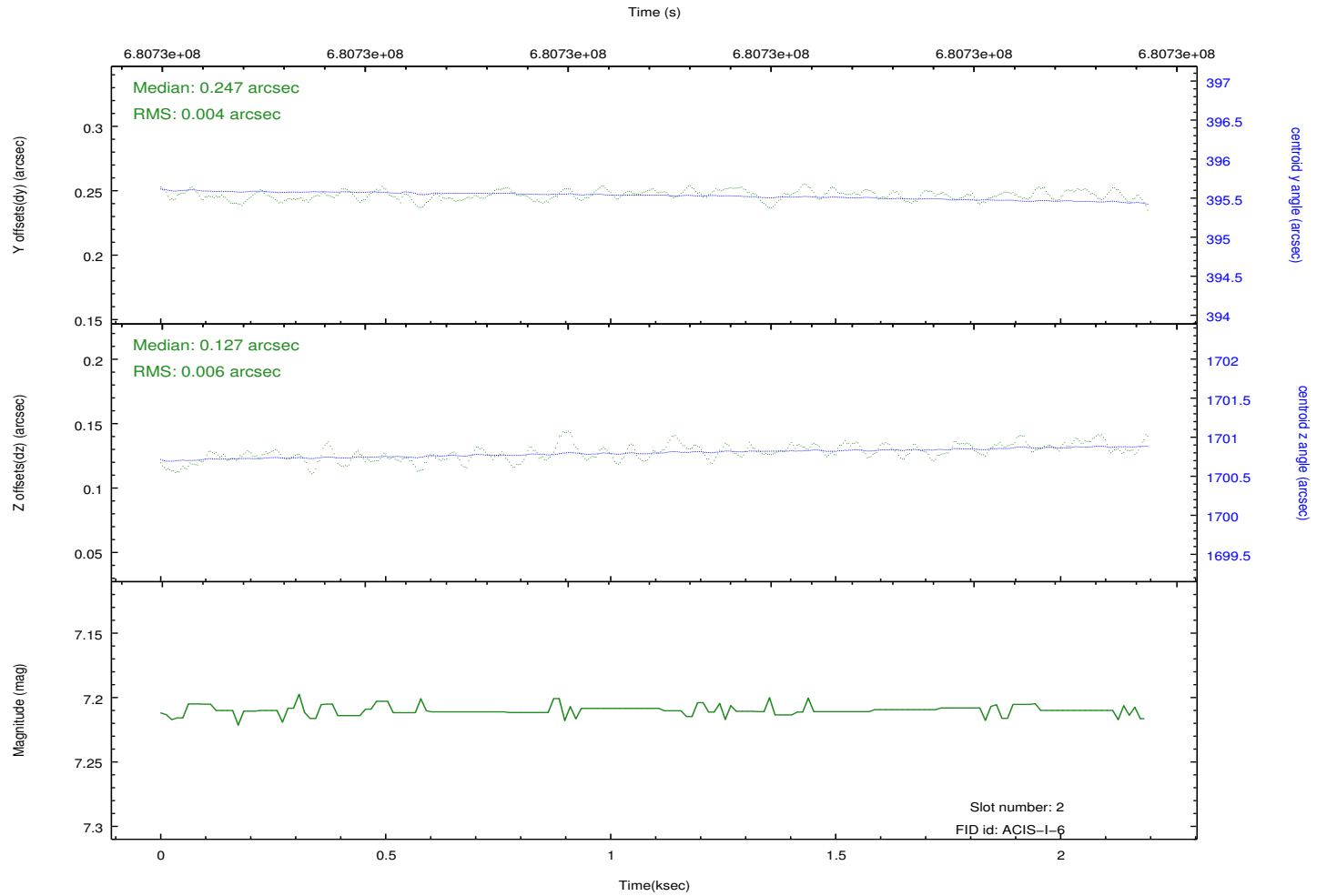
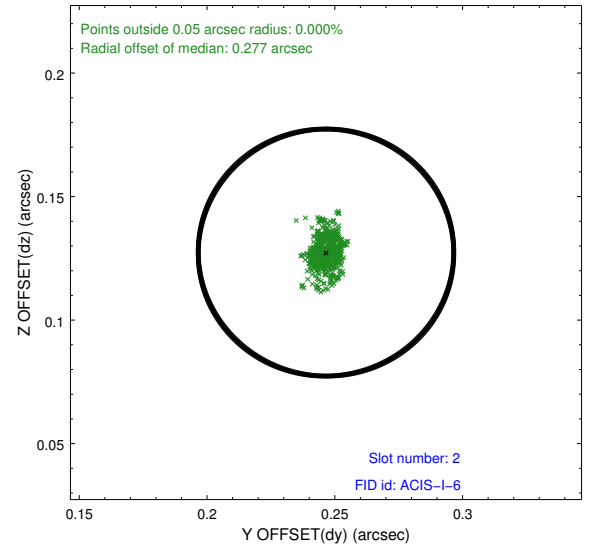
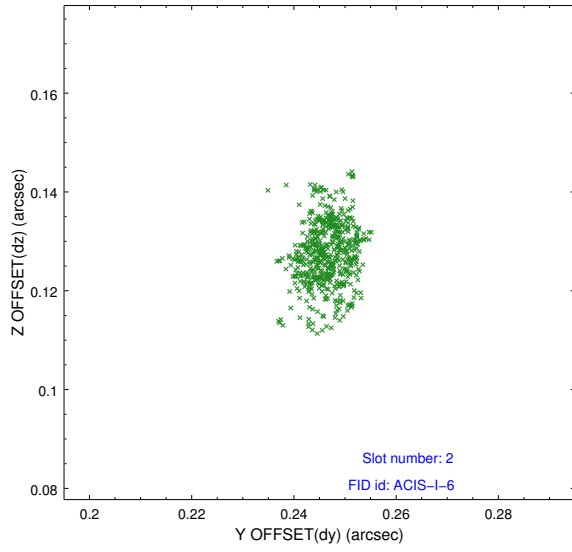
2.5.1 Slot 0



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	1.9080697613955

A.2 Comments