

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21582 - L2 Version 2
Chandra X-Ray Center

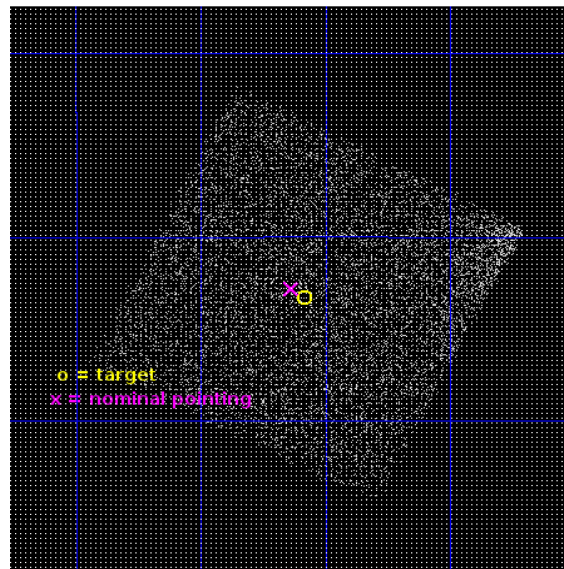
L2 Processing Date : Jul 8 2019

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1 Front

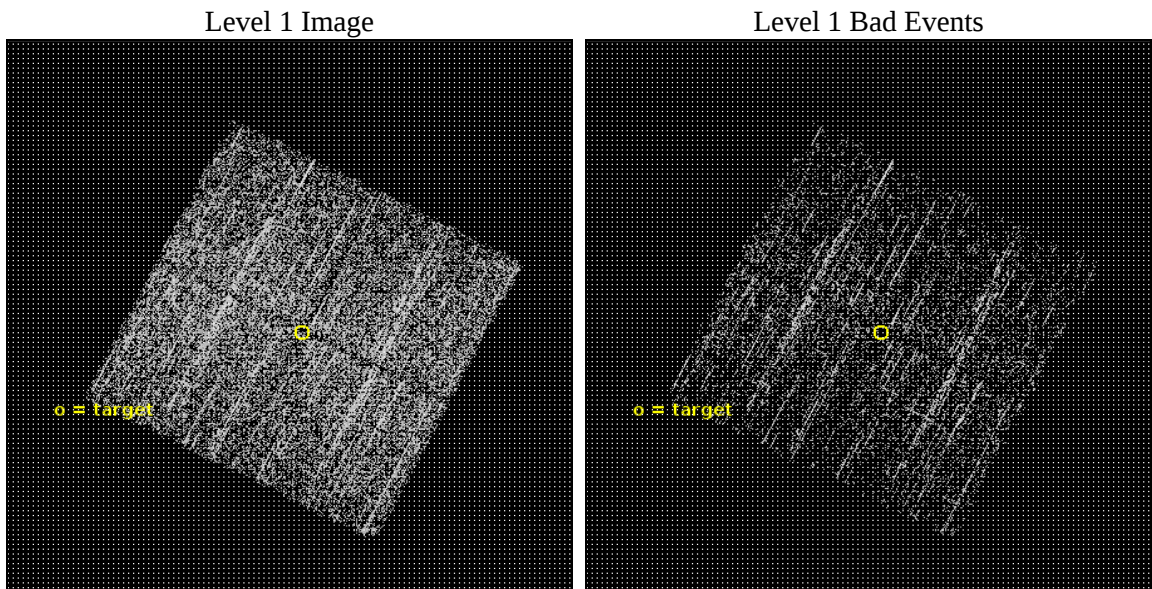
seq_num	300414	Sequence number
obs_id	21582	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.7704	Observer's specified target RA [deg]
dec_targ	-29.554868	Observer's specified target Dec [deg]
ra_nom	266.78415118586	Nominal RA [deg]
dec_nom	-29.547039818199	Nominal Dec [deg]
roll_nom	297.21555666561	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1908.3927428722	Sum of GTIs [s]
livetime	1883.4581867483	Livetime [s]
ontime0	1908.3517029285	Sum of GTIs [s]
ontime1	1908.3927428722	Sum of GTIs [s]
ontime2	1908.4337630272	Sum of GTIs [s]
ontime3	1908.4748228788	Sum of GTIs [s]
l2events	7340	Number of level 2 events



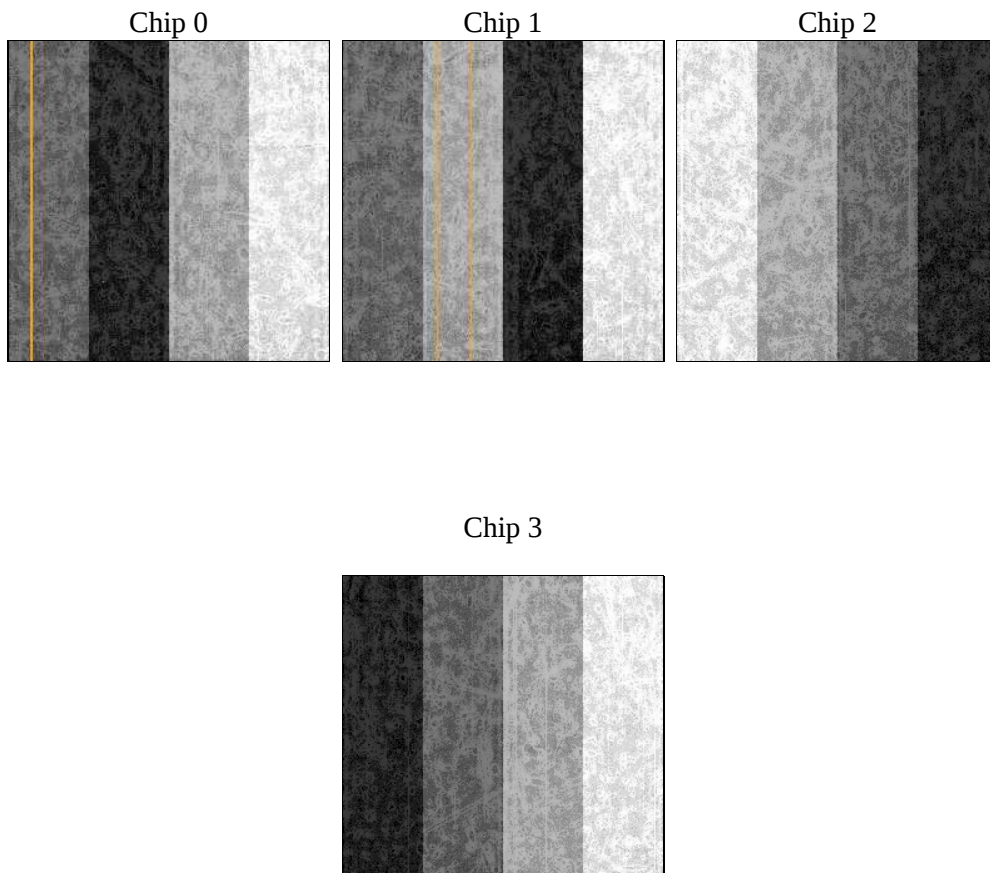
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.3927428722	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.3517029285	Sum of GTIs [s]
date	2019-07-08T16:52:08	Date and time of file creation	ontime1	1908.3927428722	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1908.4337630272	Sum of GTIs [s]
			ontime3	1908.4748228788	Sum of GTIs [s]
			l1events	53962	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13344	13137	14202	13279
rejected events	11337	10304	12350	11453
rejected %	84%	78%	86%	86%

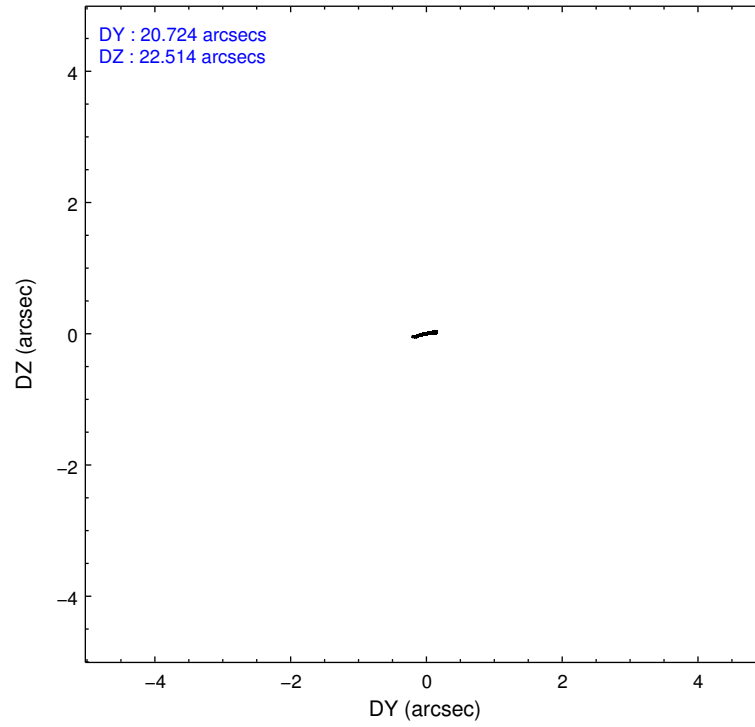
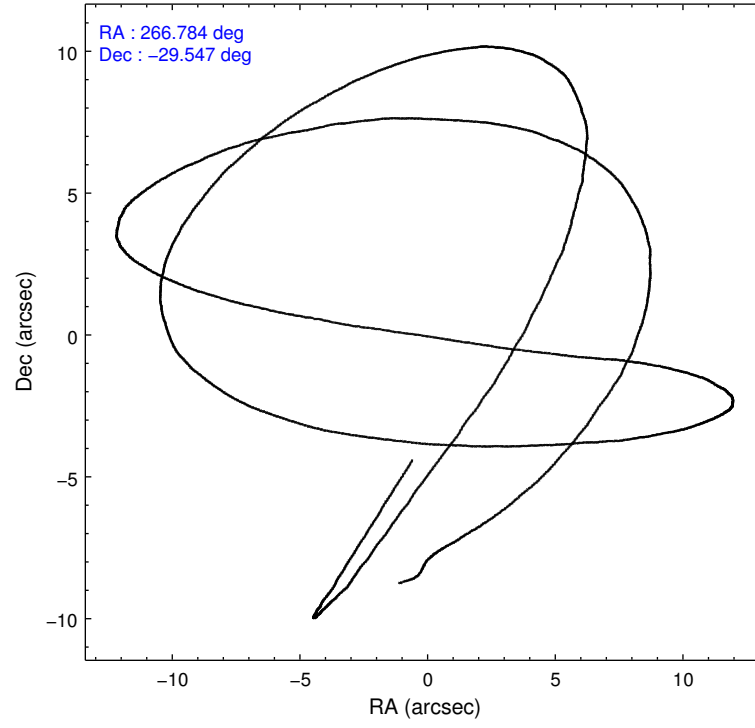
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	833	1386	731	757
	6%	10%	5%	5%
grade 1 events	4	13	10	11
	0%	0%	0%	0%
grade 2 events	444	570	406	381
	3%	4%	2%	2%
grade 3 events	205	209	192	163
	1%	1%	1%	1%
grade 4 events	173	213	176	180
	1%	1%	1%	1%
grade 5 events	642	701	619	696
	4%	5%	4%	5%
grade 6 events	355	459	347	350
	2%	3%	2%	2%
grade 7 events	10688	9586	11721	10741
	80%	72%	82%	80%

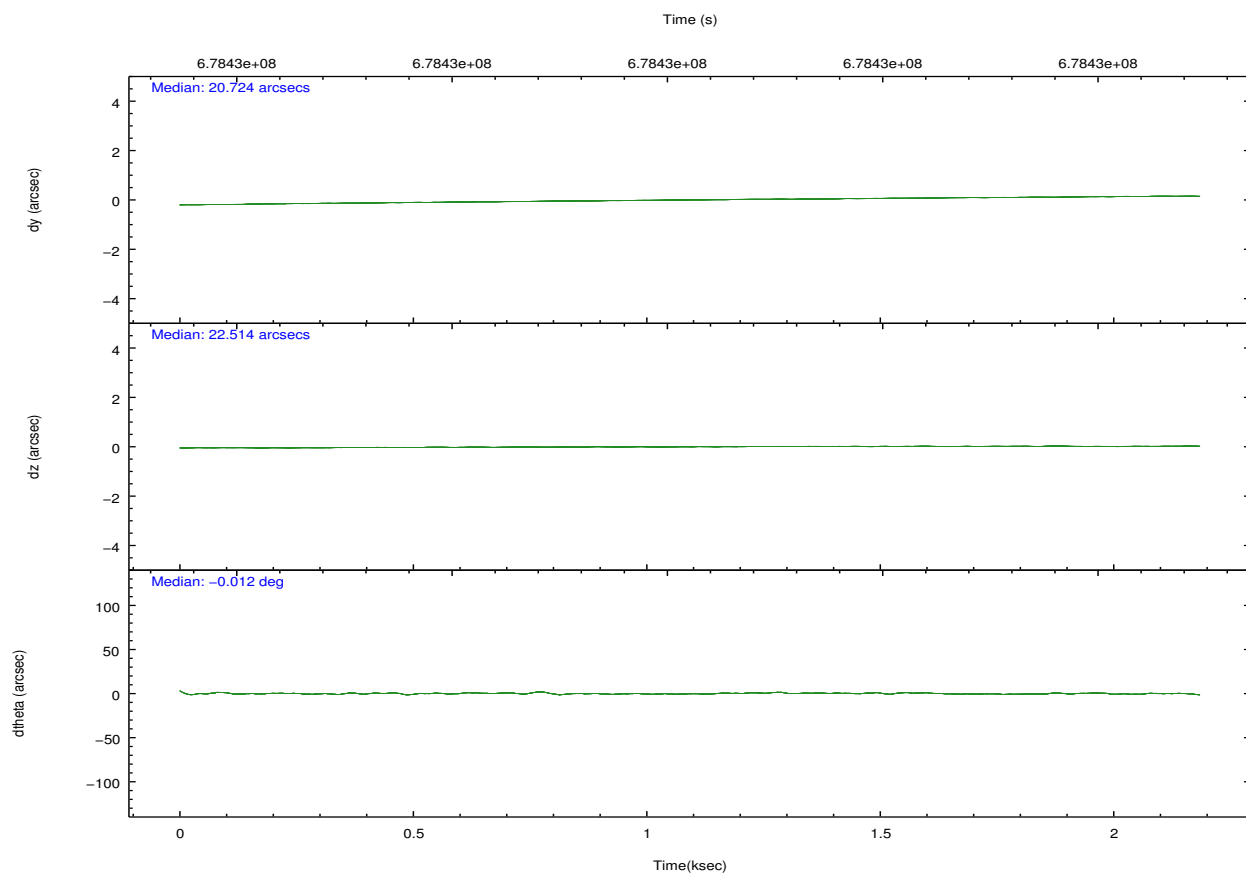
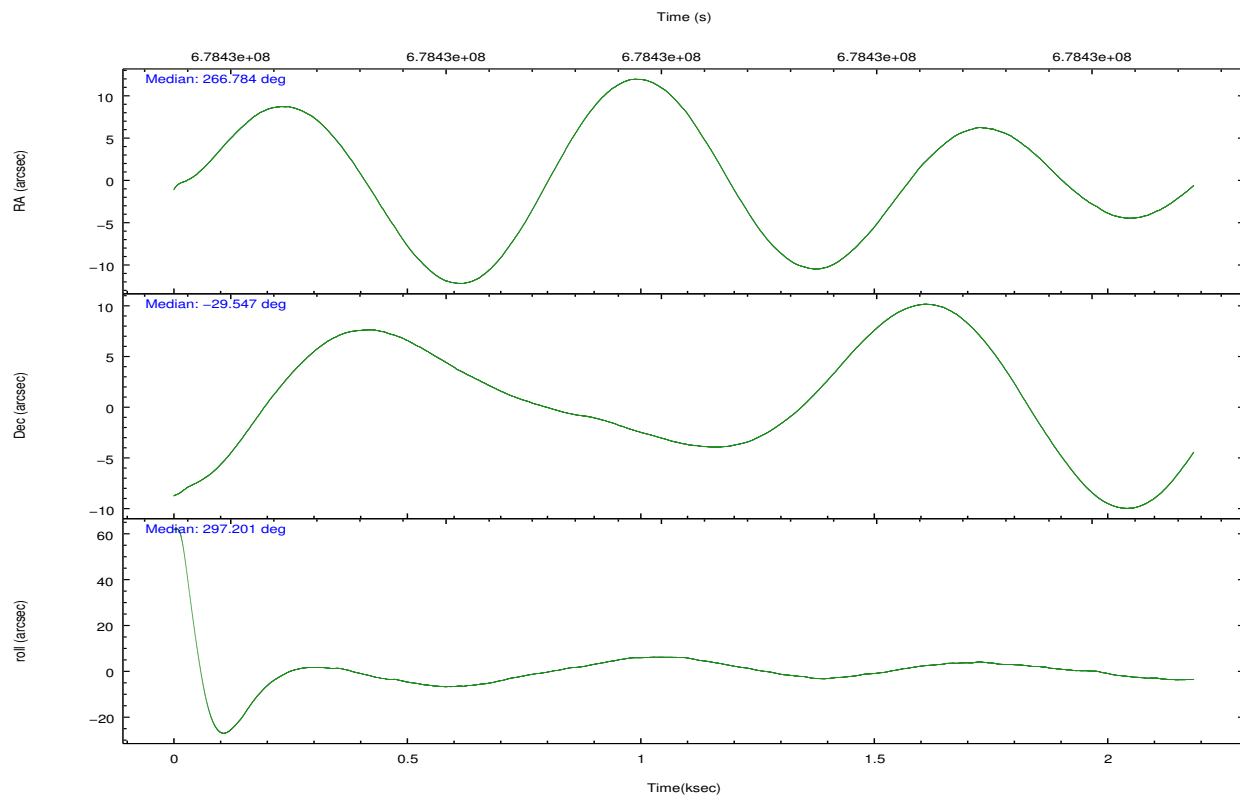
2.2 Compared Parameters

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	266.757331	266.7841511858609
[deg] Pointing Dec	-29.532026	-29.54703981819891
[deg] Pointing Roll	296.993561	297.2155566656056
[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)	678426657.184000	678426281.40405
Observation start date	2019-07-02T03:49:48	2019-07-02T03:44:41
[s] Observation end time (MET)	678428657.184000	678428791.1167001
Observation end date	2019-07-02T04:23:08	2019-07-02T04:26:31
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



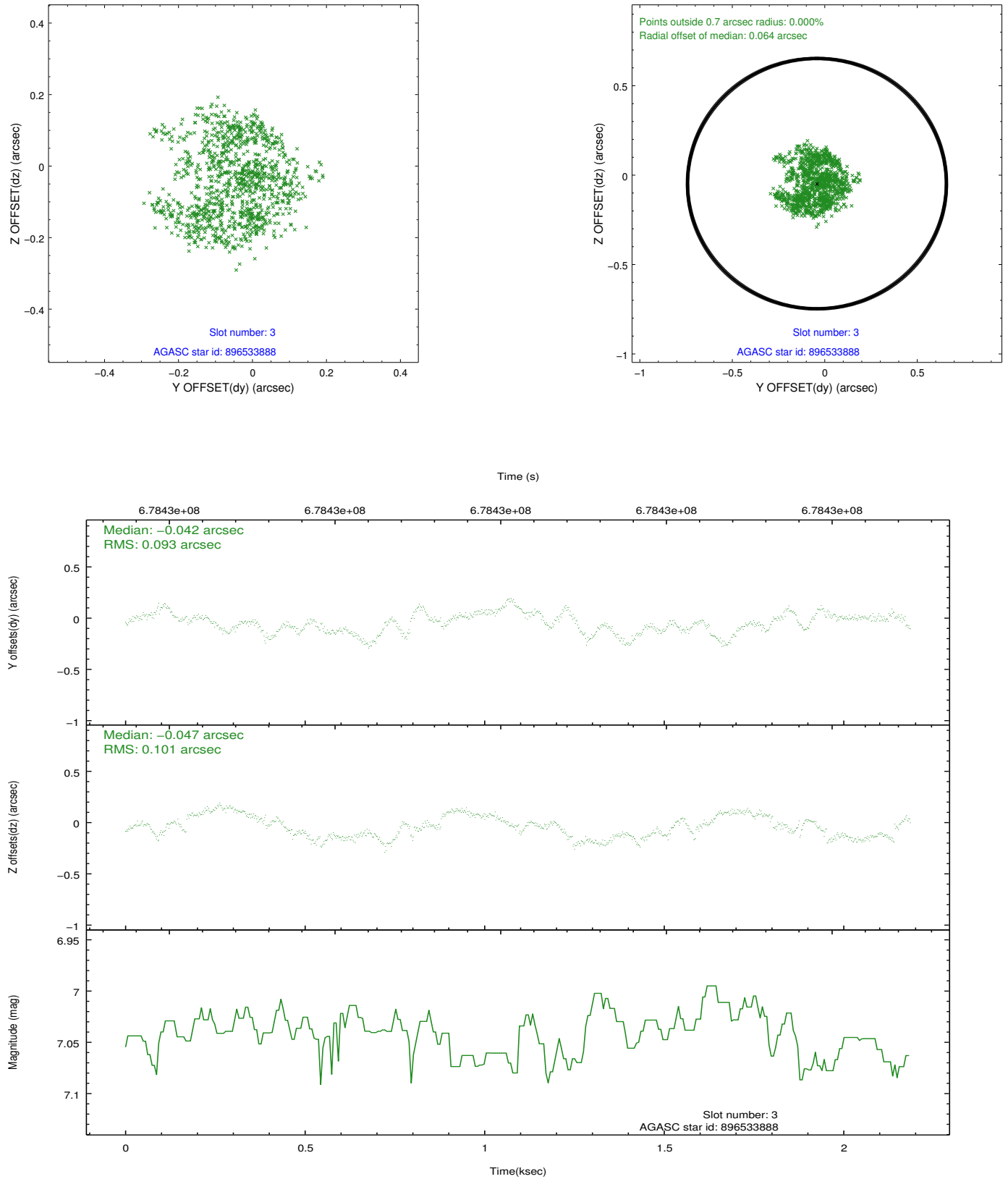


Slot Statistics

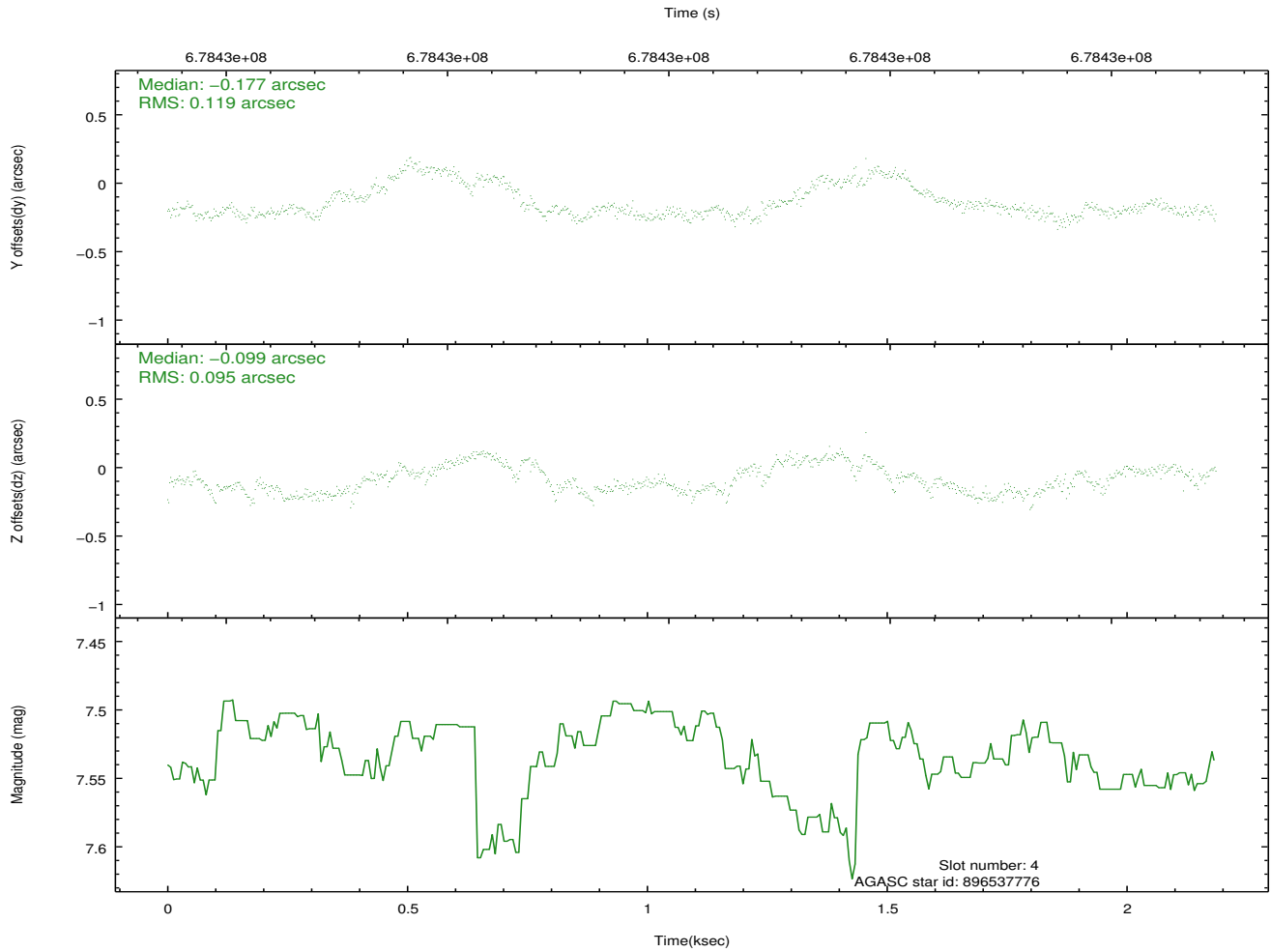
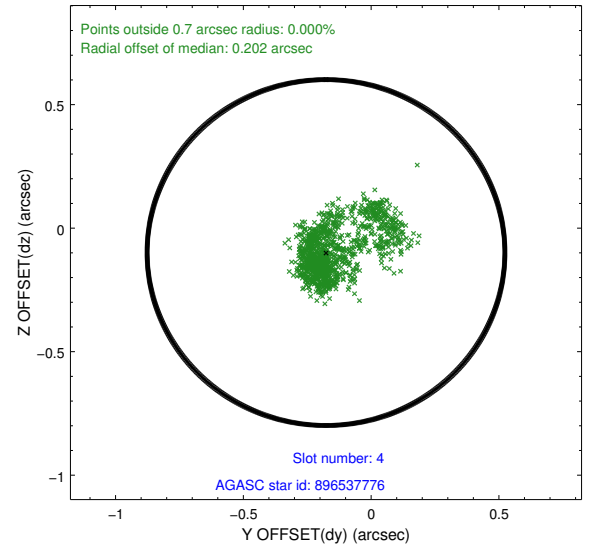
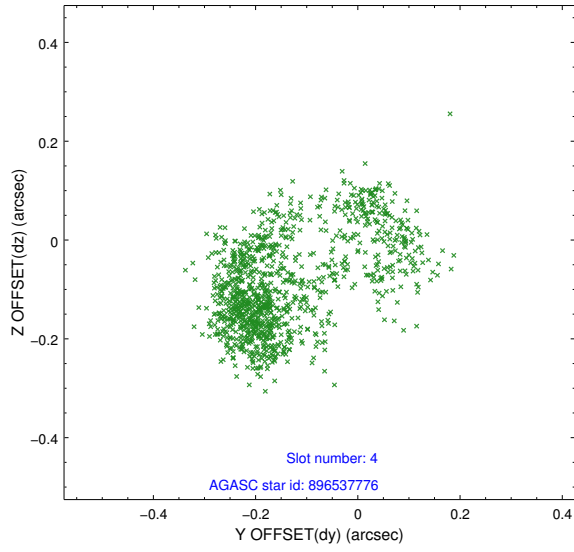
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.17	533	1.000	-0.116	-0.202	0.010	0.015	0.000000	0.000000	918.63 -846
1	FID		ACIS-I-4	7.09	532	1.000	0.732	0.219	0.008	0.013	0.000000	0.000000	2140.82 1052
2	FID		ACIS-I-5	7.14	533	1.000	-0.715	0.054	0.008	0.015	0.000000	0.000000	-1826.50 1052
3	GUIDE	used	896533888	7.04	1066	1.000	-0.042	-0.047	0.153	0.219	266.666434	-29.392757	-575.91 -26
4	GUIDE	used	896537776	7.53	1067	1.000	-0.177	-0.099	0.140	0.287	266.655684	-29.665673	283.99 -501
5	GUIDE	used	896541168	8.14	1067	1.000	0.070	-0.024	0.114	0.188	266.319970	-29.850801	405.93 -1739
6	GUIDE	used	896541360	7.74	1066	1.000	0.130	0.148	0.085	0.138	266.684478	-29.453744	-354.23 -76
7	GUIDE	used	896541576	8.14	1066	1.000	0.008	0.014	0.153	0.288	267.051055	-28.762912	-2046.31 2082

2.4 Star Slots

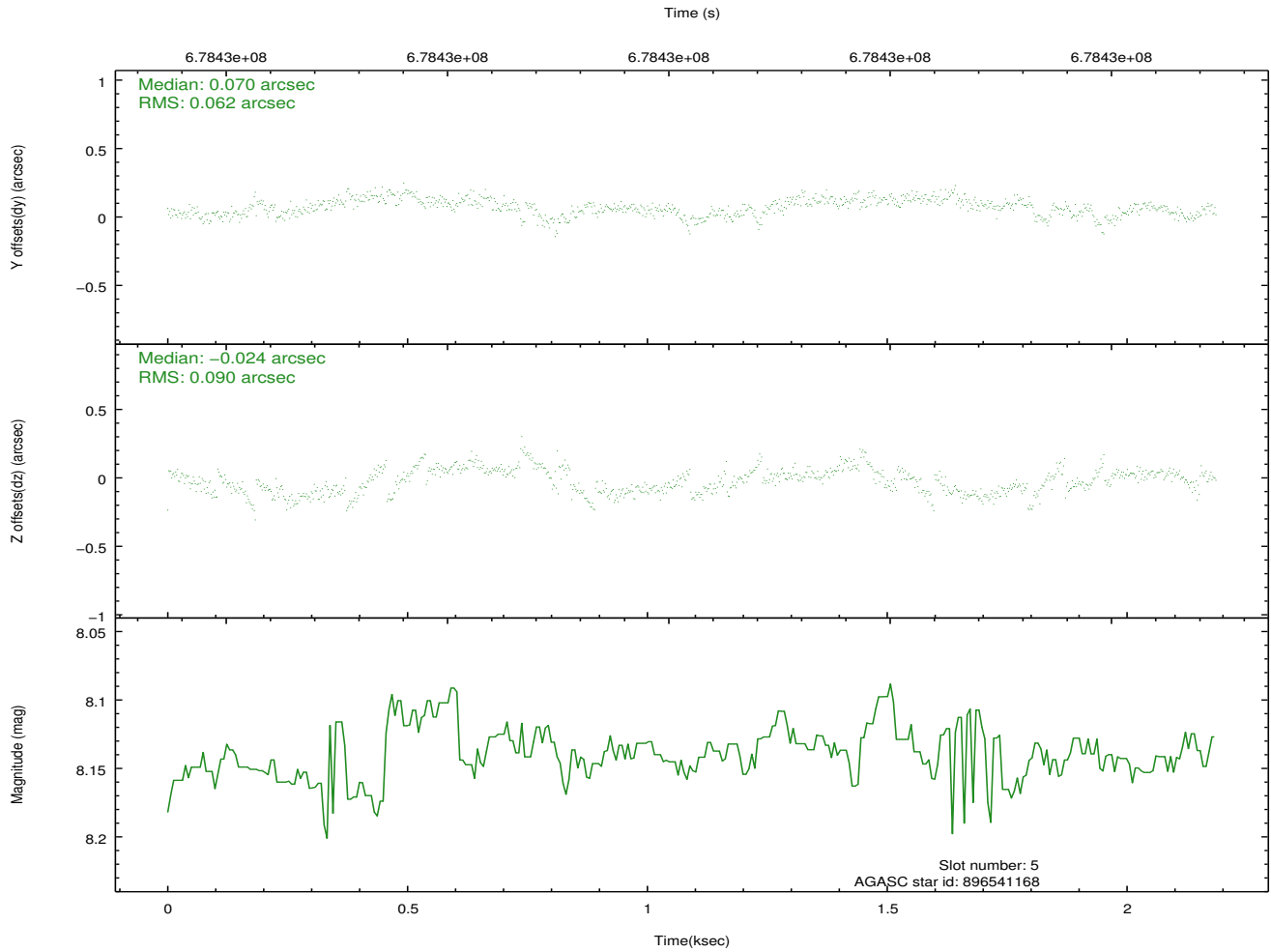
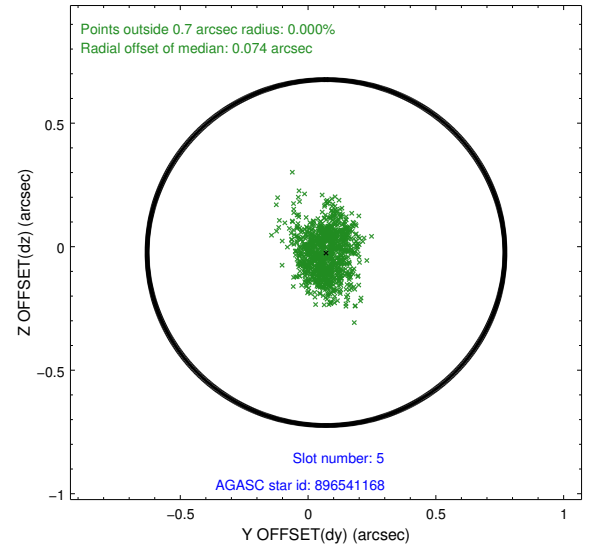
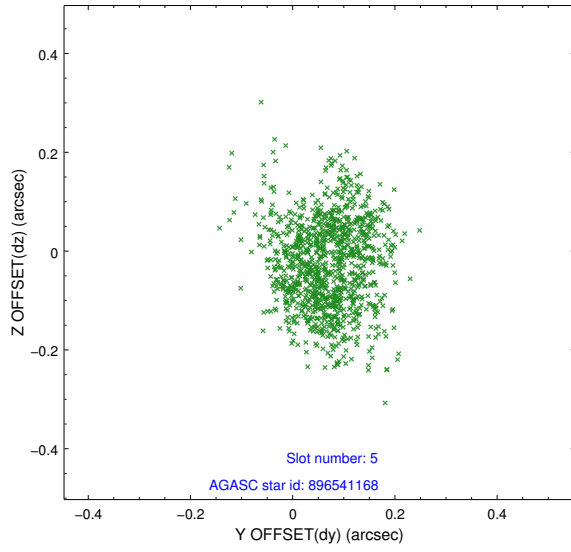
2.4.1 Slot 3



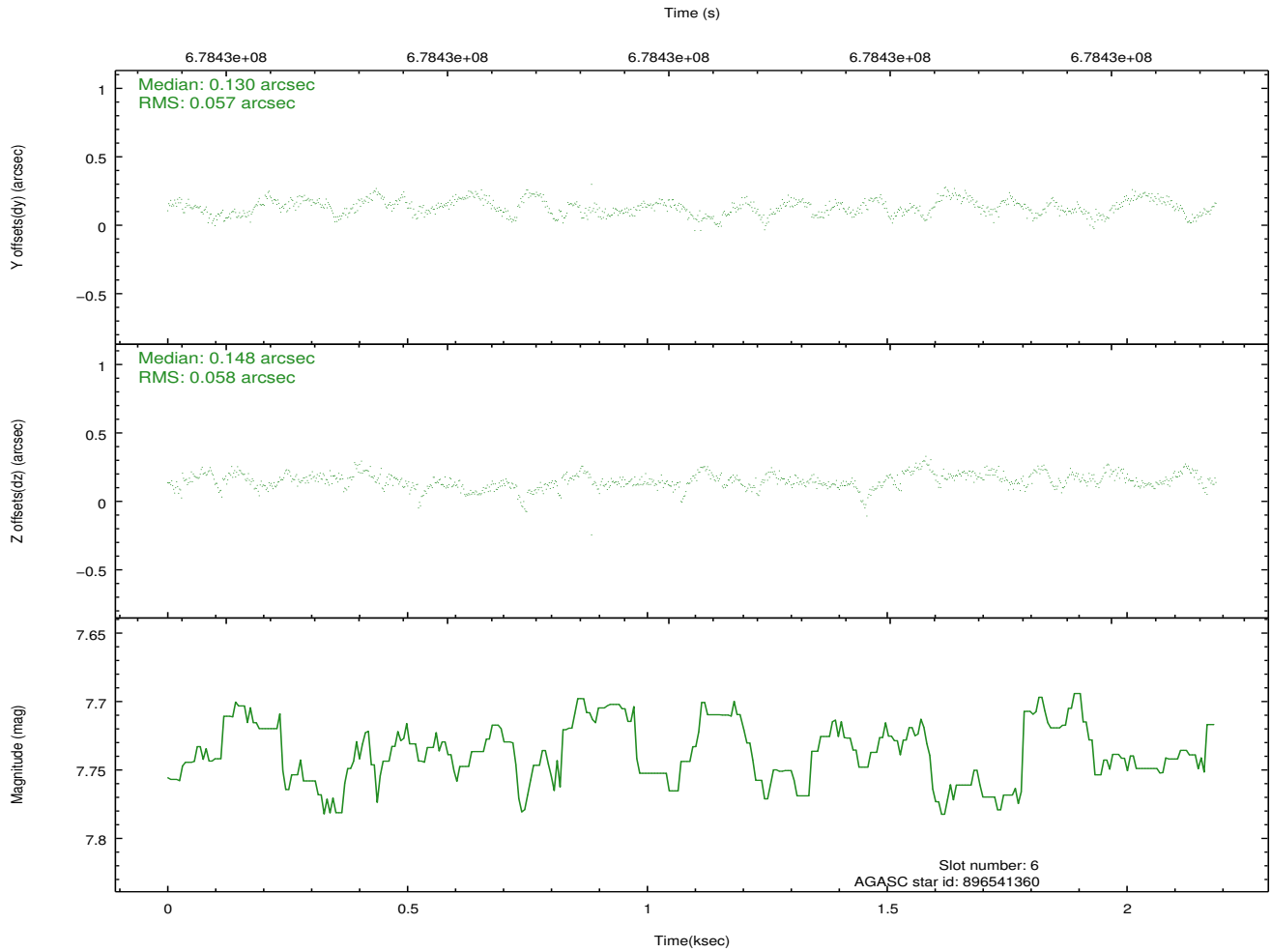
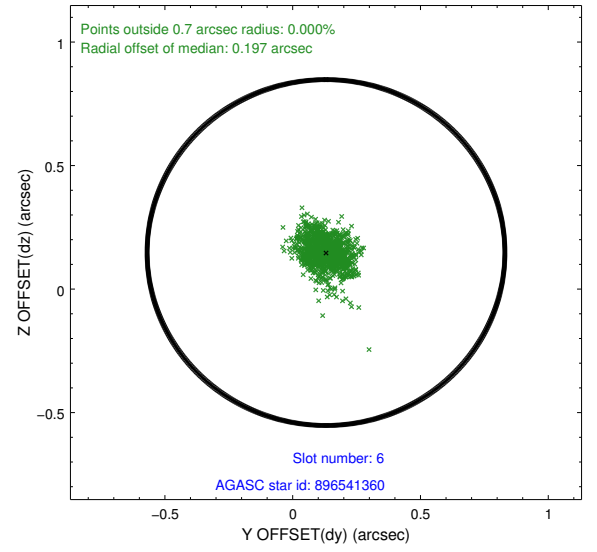
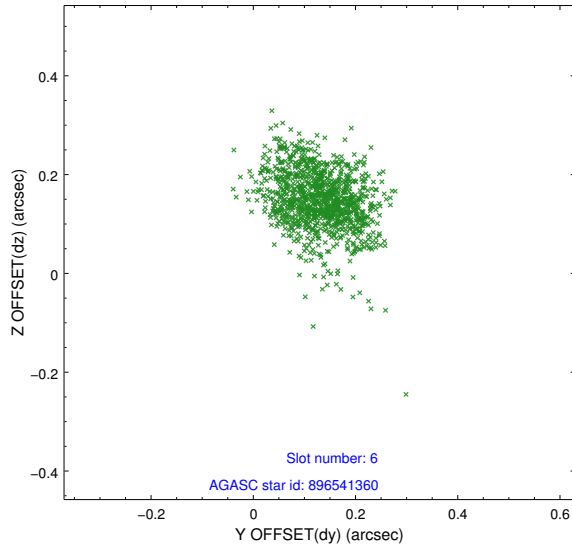
2.4.2 Slot 4



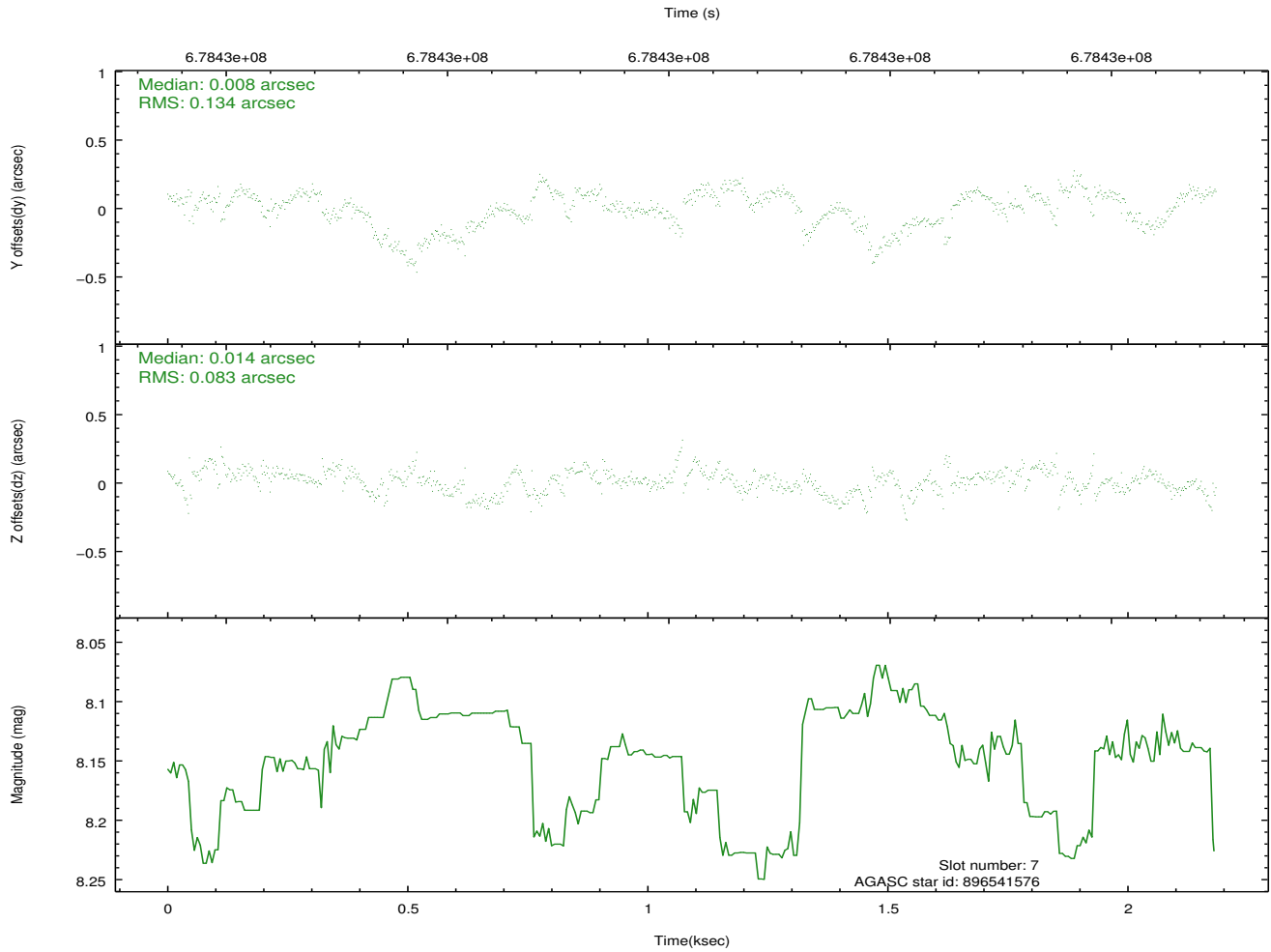
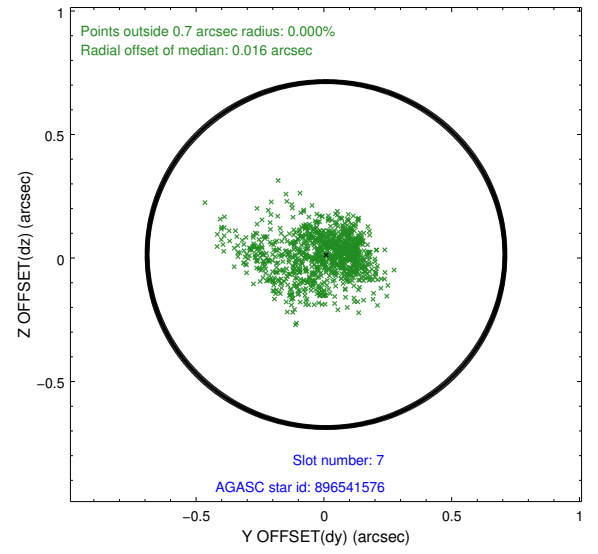
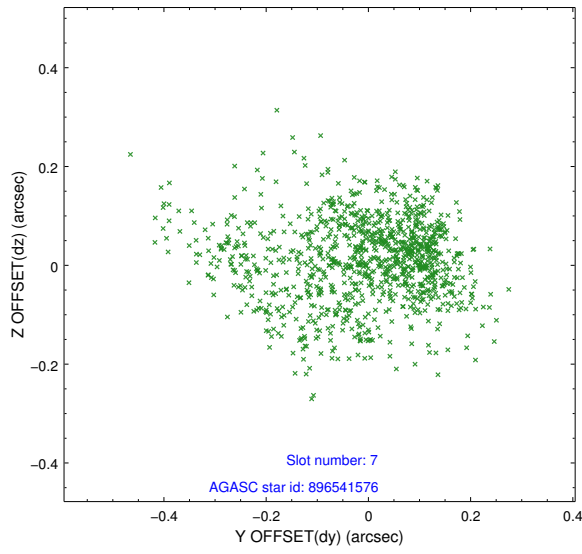
2.4.3 Slot 5



2.4.4 Slot 6

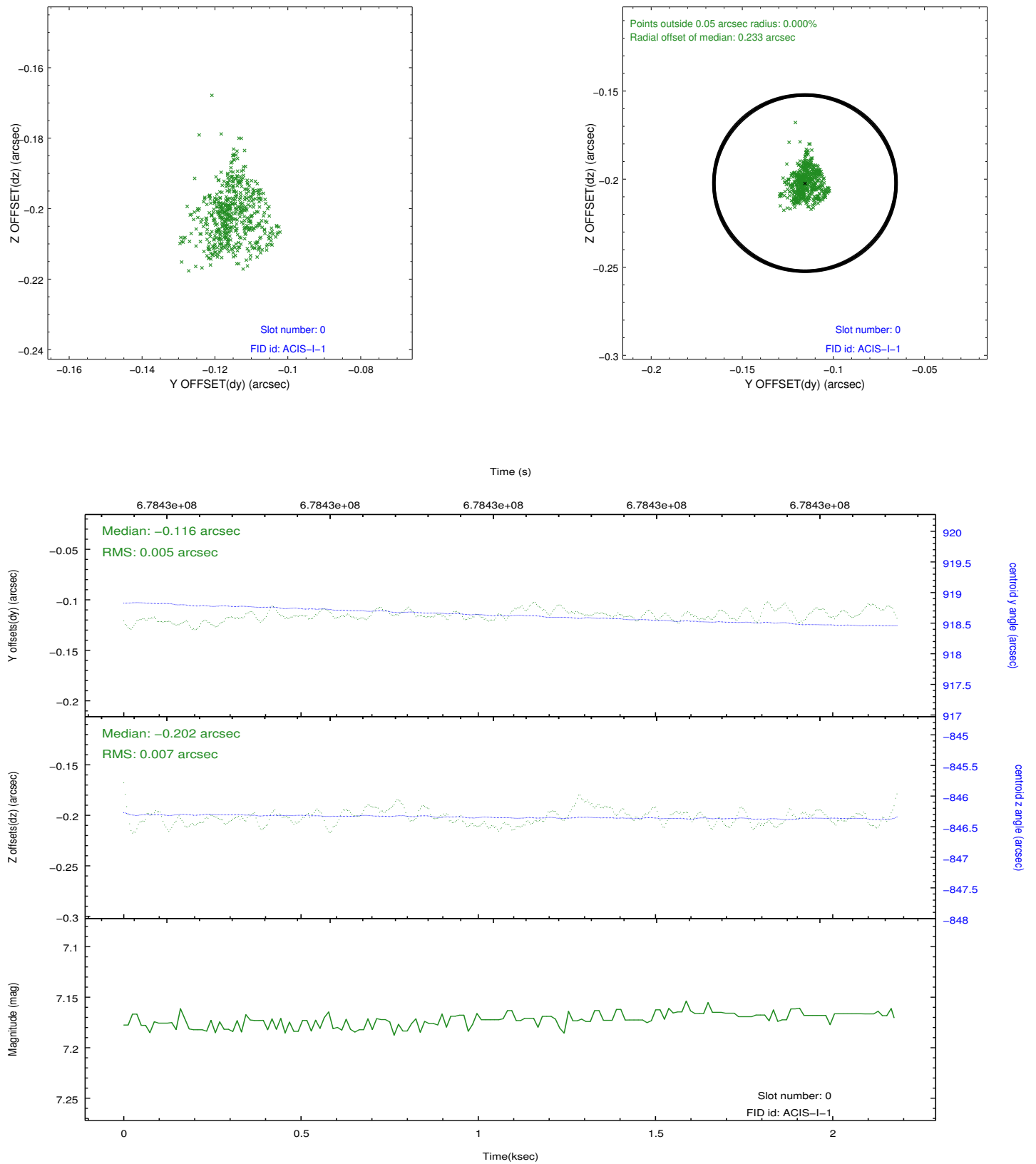


2.4.5 Slot 7

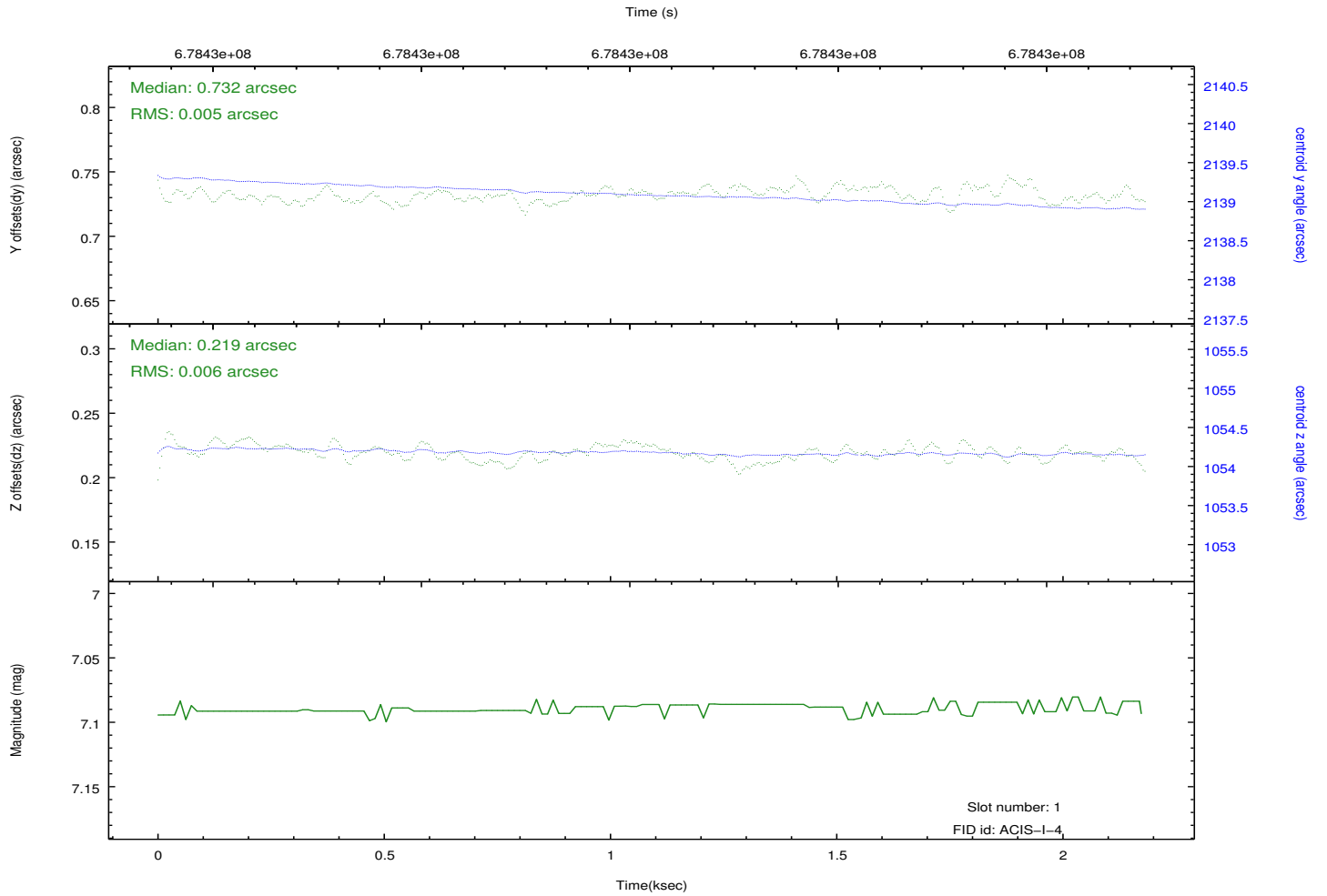
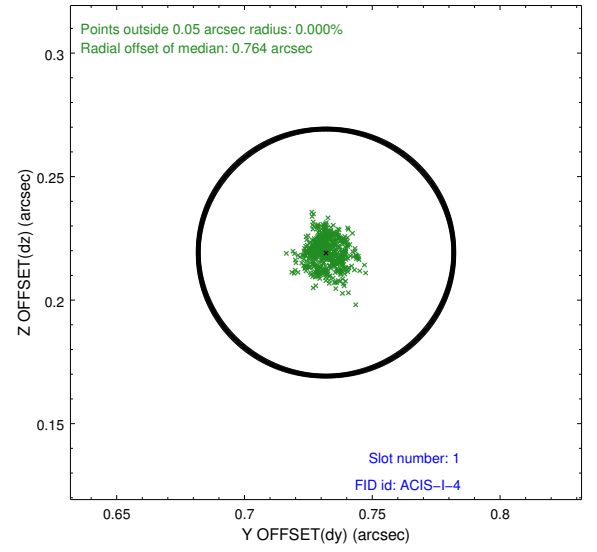
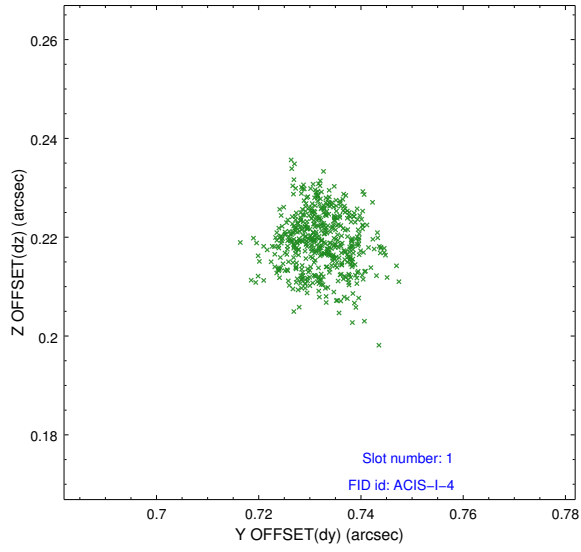


2.5 FID Slots

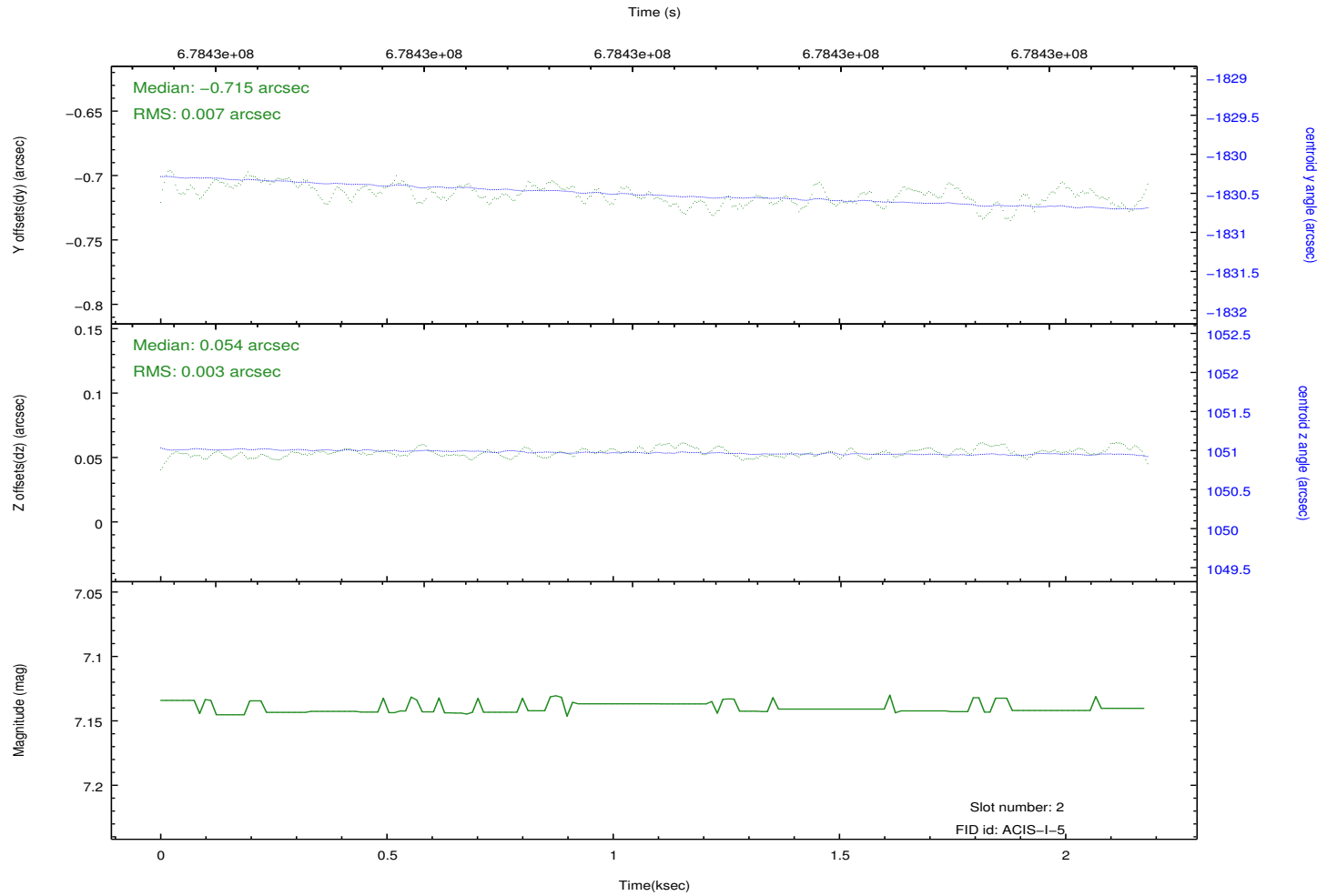
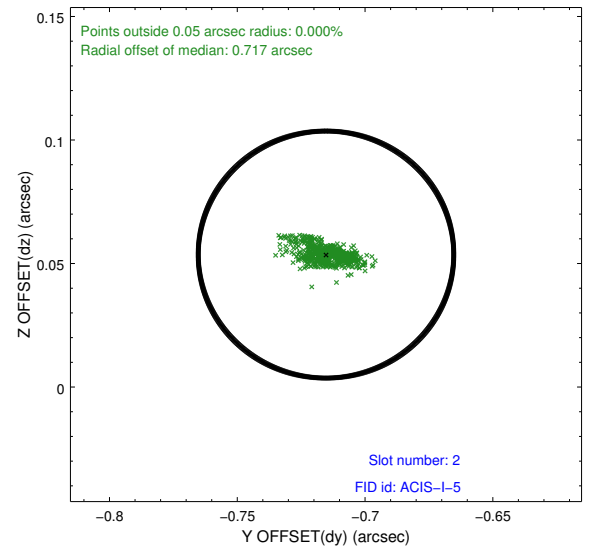
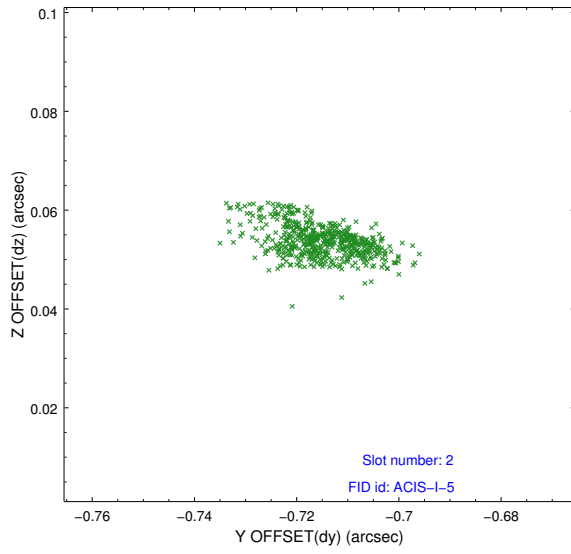
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9083927428722

A.2 Comments