

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18651 - L2 Version 1
Chandra X-Ray Center

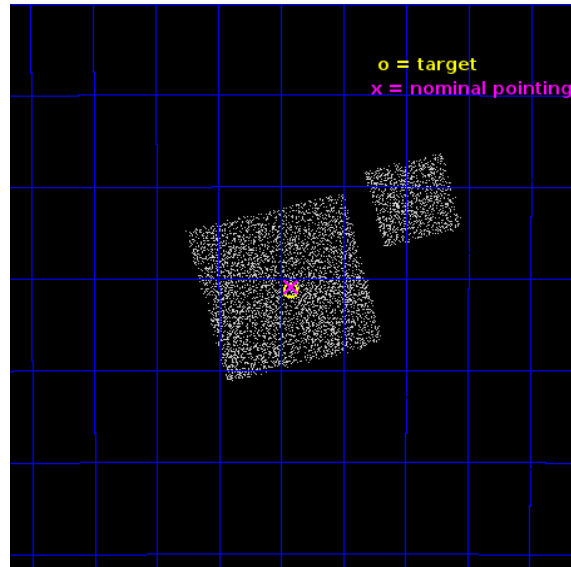
L2 Processing Date : May 22 2016

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1 Front

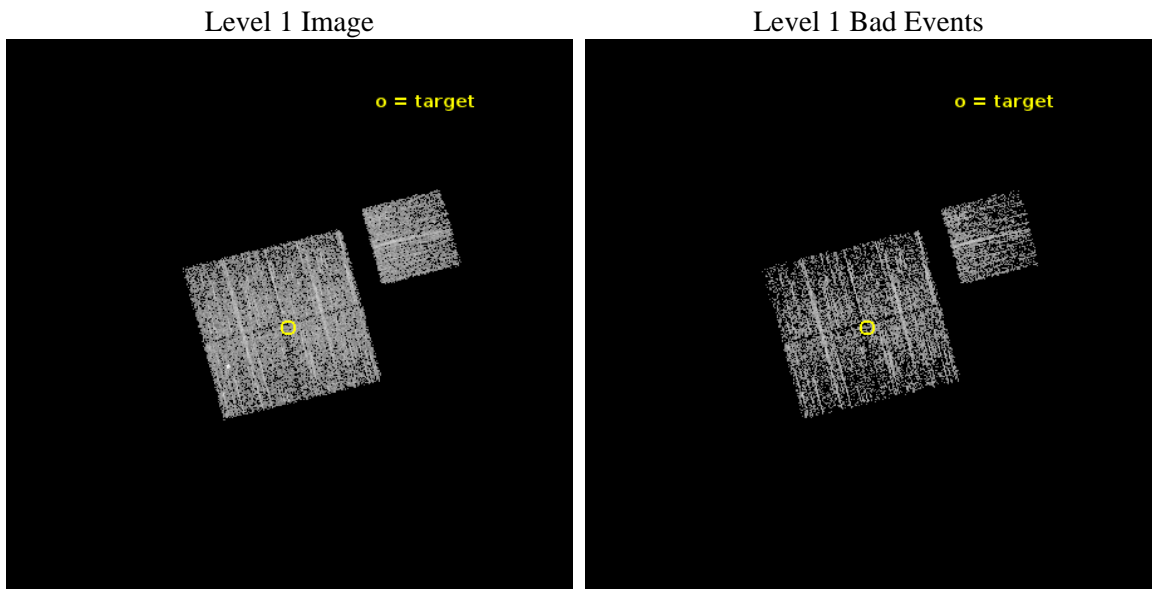
seq_num	300375	Sequence number
obs_id	18651	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.73016	Observer's specified target RA [deg]
dec_targ	-29.52221	Observer's specified target Dec [deg]
ra_nom	265.72929761748	Nominal RA [deg]
dec_nom	-29.514953018673	Nominal Dec [deg]
roll_nom	75.479697005049	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.1824338436	Sum of GTIs [s]
livetime	1929.6365359611	Livetime [s]
ontime0	1955.0593138933	Sum of GTIs [s]
ontime1	1955.100353837	Sum of GTIs [s]
ontime2	1955.1413938999	Sum of GTIs [s]
ontime3	1955.1824338436	Sum of GTIs [s]
ontime6	1955.0182738304	Sum of GTIs [s]
l2events	6720	Number of level 2 events



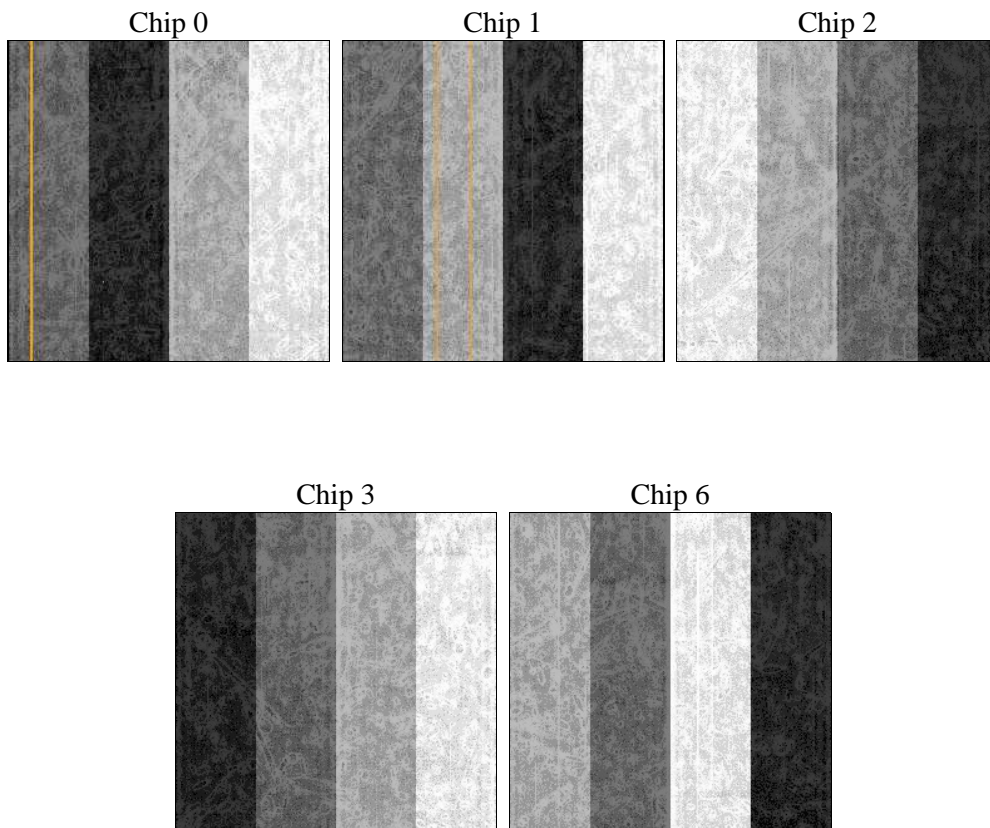
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1955.1824338436	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.0593138933	Sum of GTIs [s]
date	2016-05-22T15:21:26	Date and time of file creation	ontime1	1955.100353837	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.1413938999	Sum of GTIs [s]
			ontime3	1955.1824338436	Sum of GTIs [s]
			ontime6	1955.0182738304	Sum of GTIs [s]
			l1events	62470	Number of level 1 events

2.1.4 Events

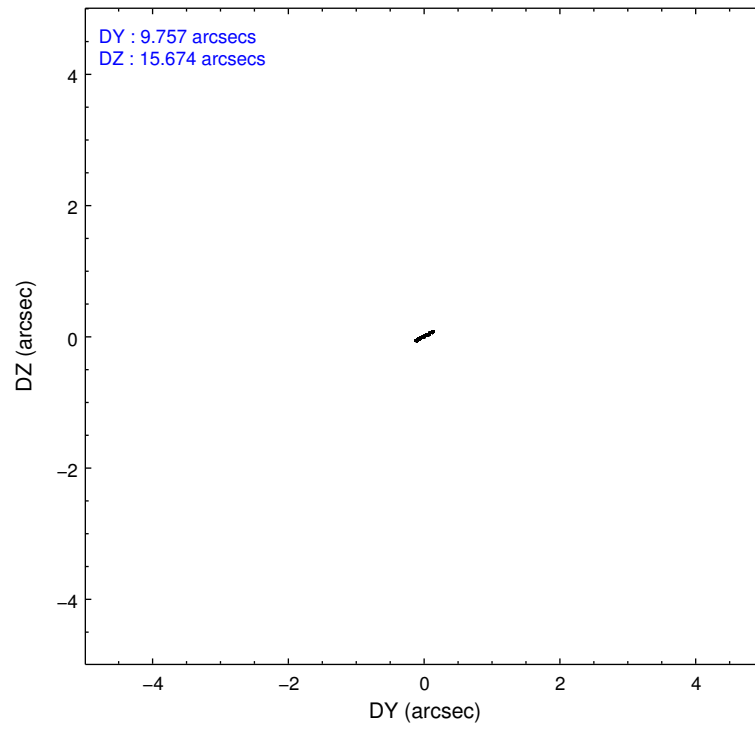
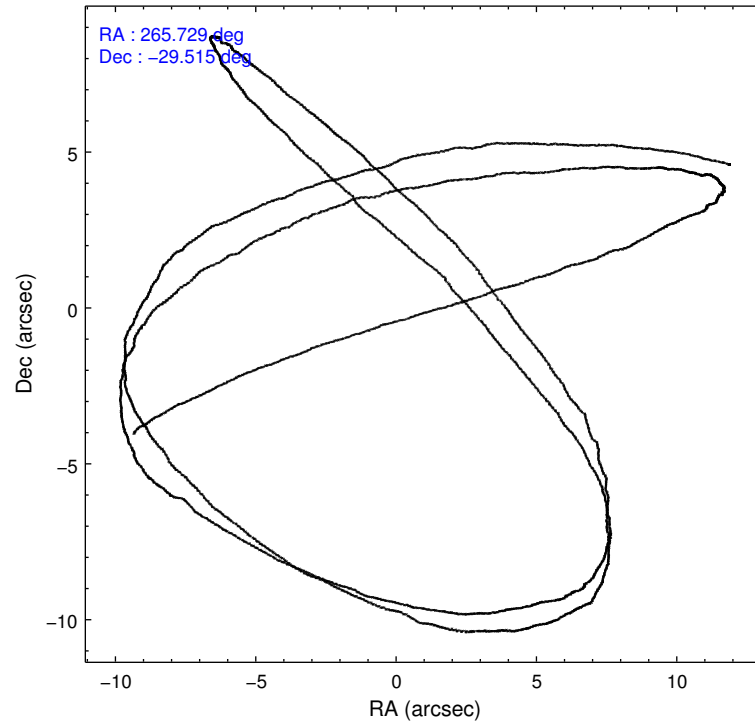
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11868	12466	13399	12671	12066
rejected events	10277	10202	11972	11116	10567
rejected %	86%	81%	89%	87%	87%

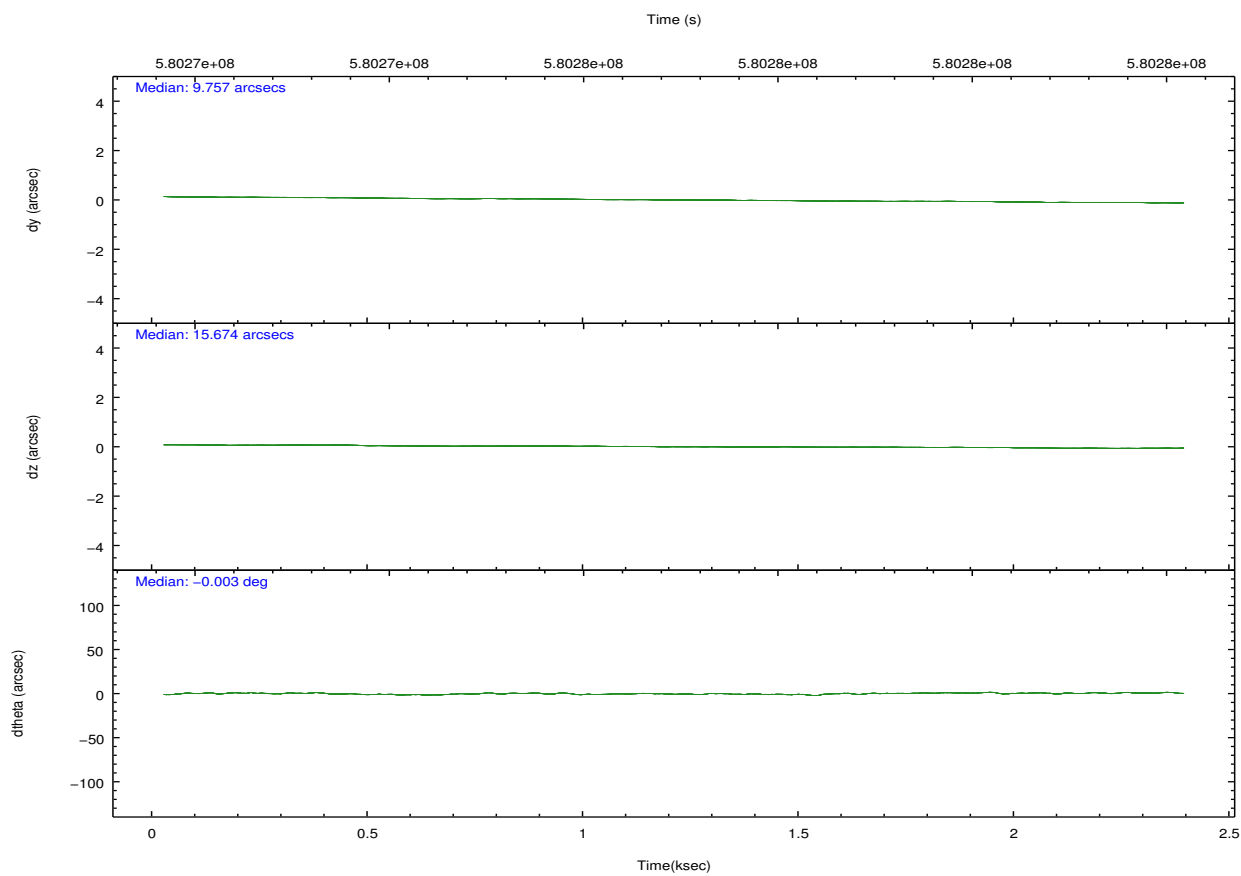
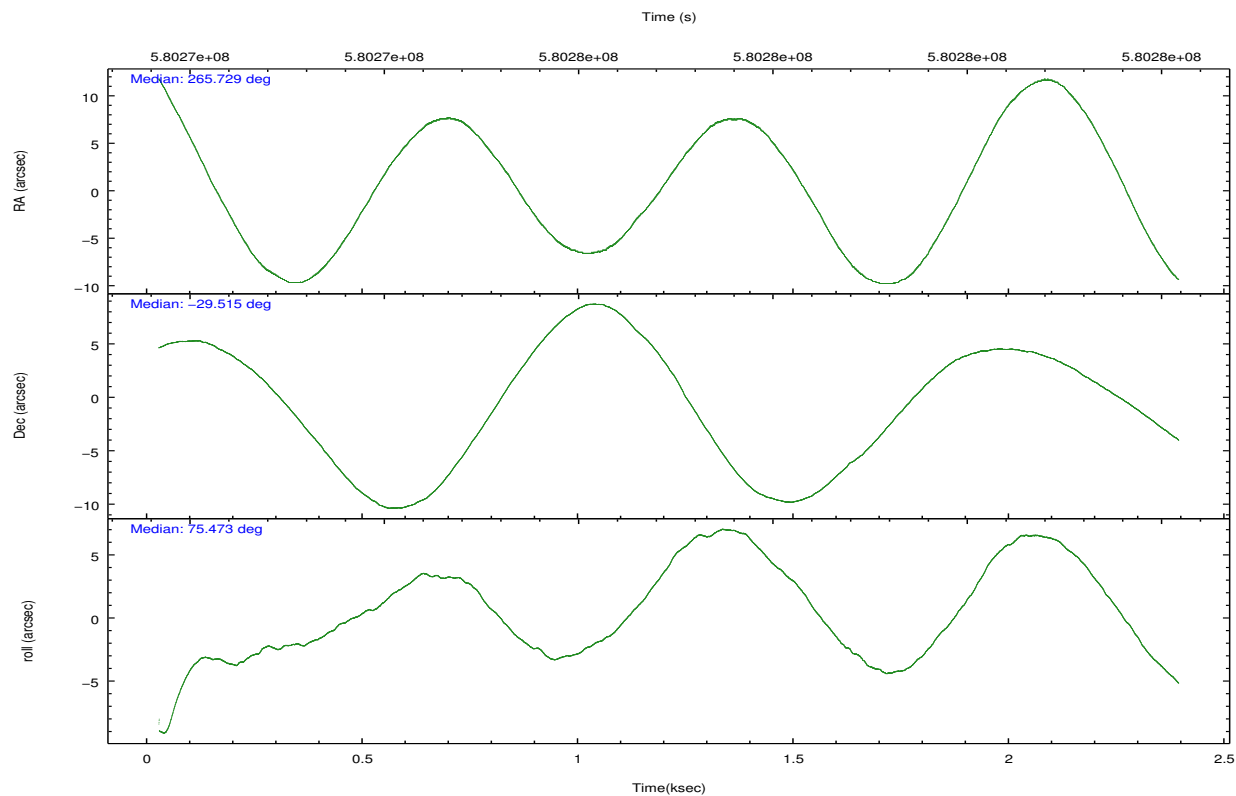
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	624	1231	573	625	499
	5%	9%	4%	4%	4%
grade 1 events	8	10	6	9	6
	0%	0%	0%	0%	0%
grade 2 events	369	384	314	318	356
	3%	3%	2%	2%	2%
grade 3 events	130	152	134	137	132
	1%	1%	1%	1%	1%
grade 4 events	142	149	142	142	145
	1%	1%	1%	1%	1%
grade 5 events	537	548	502	590	515
	4%	4%	3%	4%	4%
grade 6 events	330	357	270	336	373
	2%	2%	2%	2%	3%
grade 7 events	9728	9635	11458	10514	10040
	81%	77%	85%	82%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	265.737898	265.7292976174789	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.541674	-29.51495301867288	CCD I3 on	Y	Y
[deg] Pointing Roll	75.275244	75.47969700504869	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	580274263.184000	580273862.26293	CCD S5 on	N	N
Observation start date	2016-05-22T03:16:35	2016-05-22T03:11:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580276443.184000	580277212.47562	On-chip summing requested	N	N
Observation end date	2016-05-22T03:52:55	2016-05-22T04:06:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



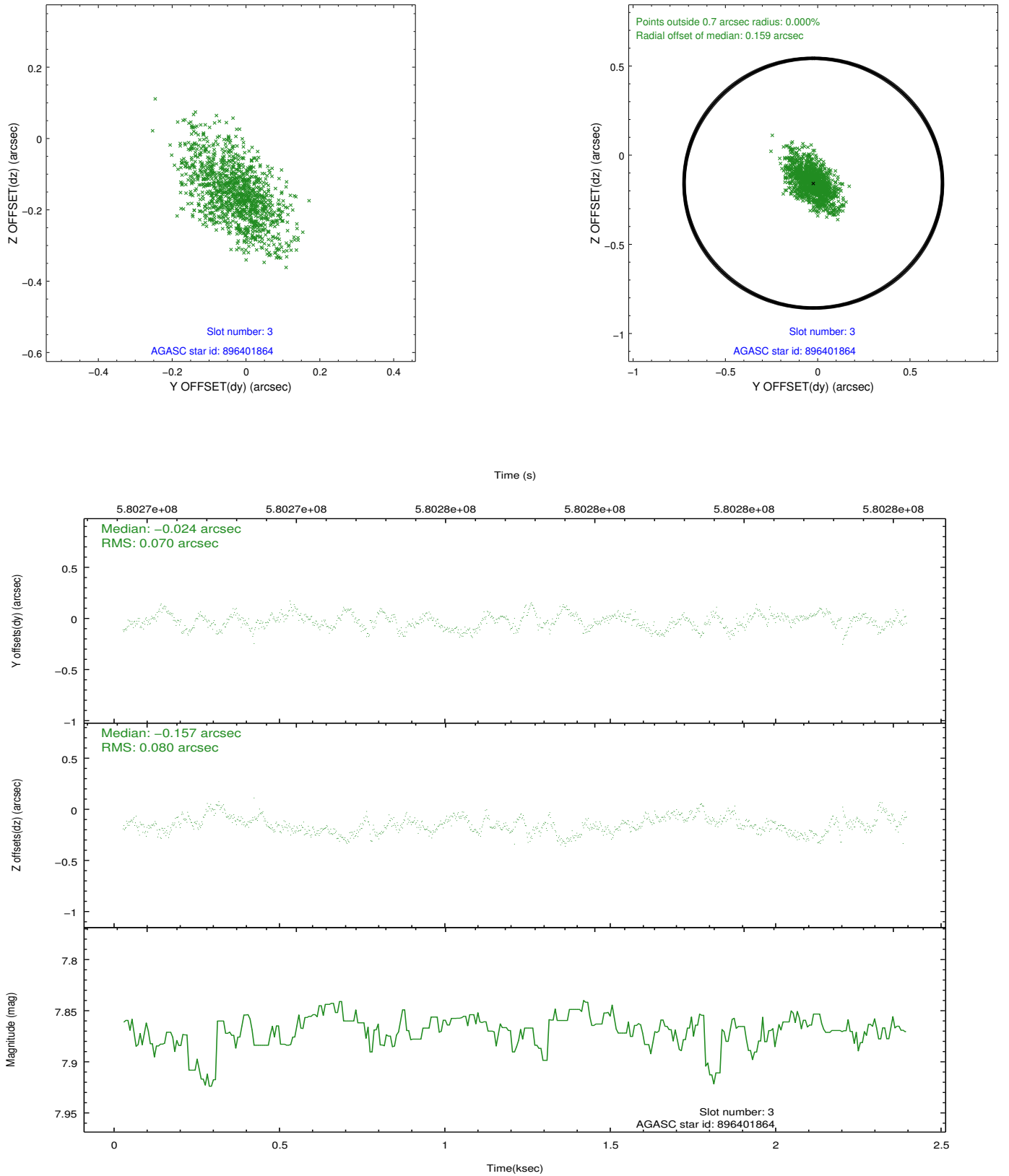


Slot Statistics

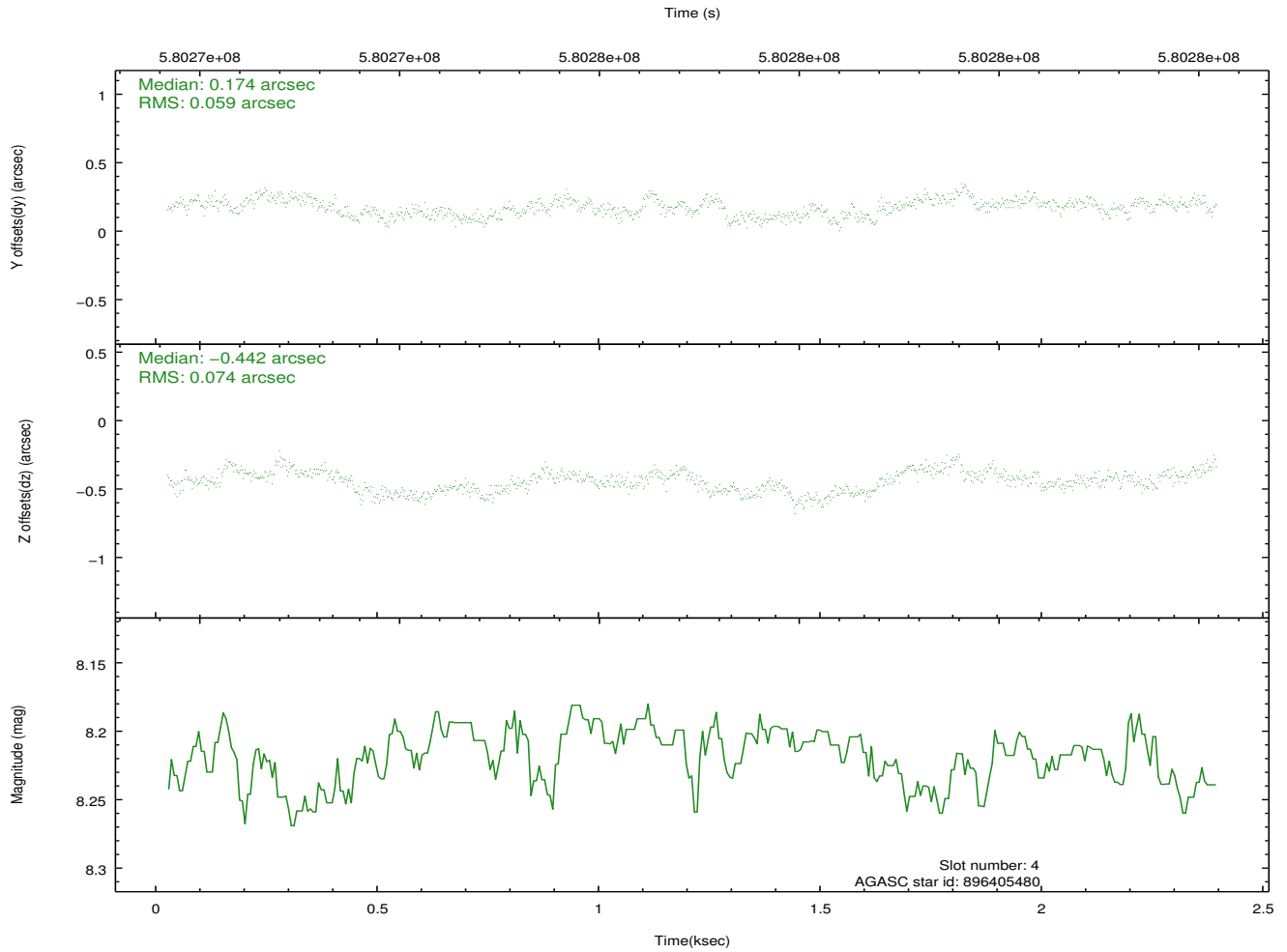
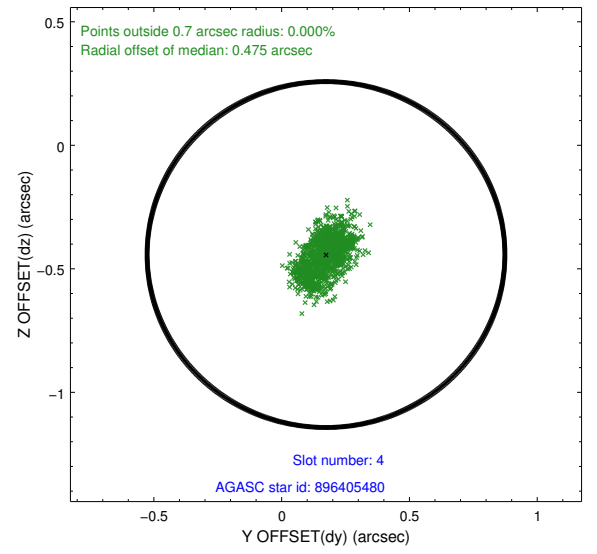
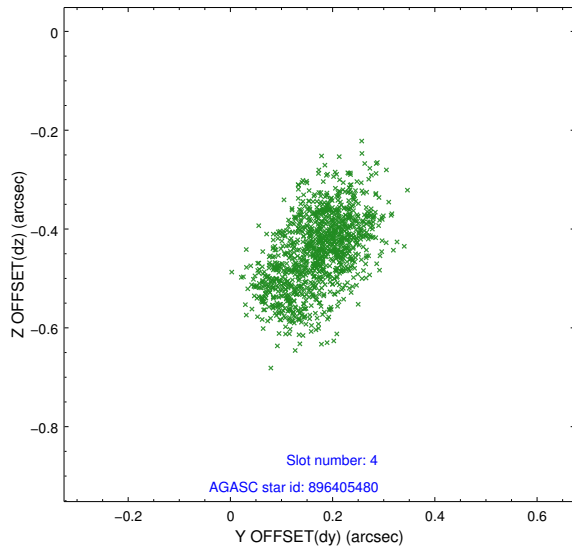
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	578	0.079	-0.103	0.011	0.020	0.000000	0.000000	929.94	-839.39
1	FID		ACIS-I-5	7.25	578	-0.292	0.044	0.007	0.014	0.000000	0.000000	-1817.05	1056.83
2	FID		ACIS-I-6	7.25	578	0.122	0.130	0.009	0.015	0.000000	0.000000	392.51	1704.56
3	GUIDE	used	896401864	7.87	1156	-0.024	-0.157	0.111	0.193	264.861768	-29.959752	-2160.91	2257.33
4	GUIDE	used	896405480	8.22	1155	0.174	-0.442	0.102	0.159	265.220460	-29.599691	-619.37	1513.89
5	GUIDE	used	896538920	8.88	1156	-0.201	0.289	0.123	0.202	266.278728	-29.143592	1813.55	-1279.69
6	GUIDE	used	966924920	8.05	1155	0.006	0.341	0.086	0.138	265.875401	-30.176961	-2102.05	-996.32
7	GUIDE	used	896534128	8.70	1154	0.048	-0.022	0.115	0.186	266.503837	-29.080853	2207.52	-1911.72

2.4 Star Slots

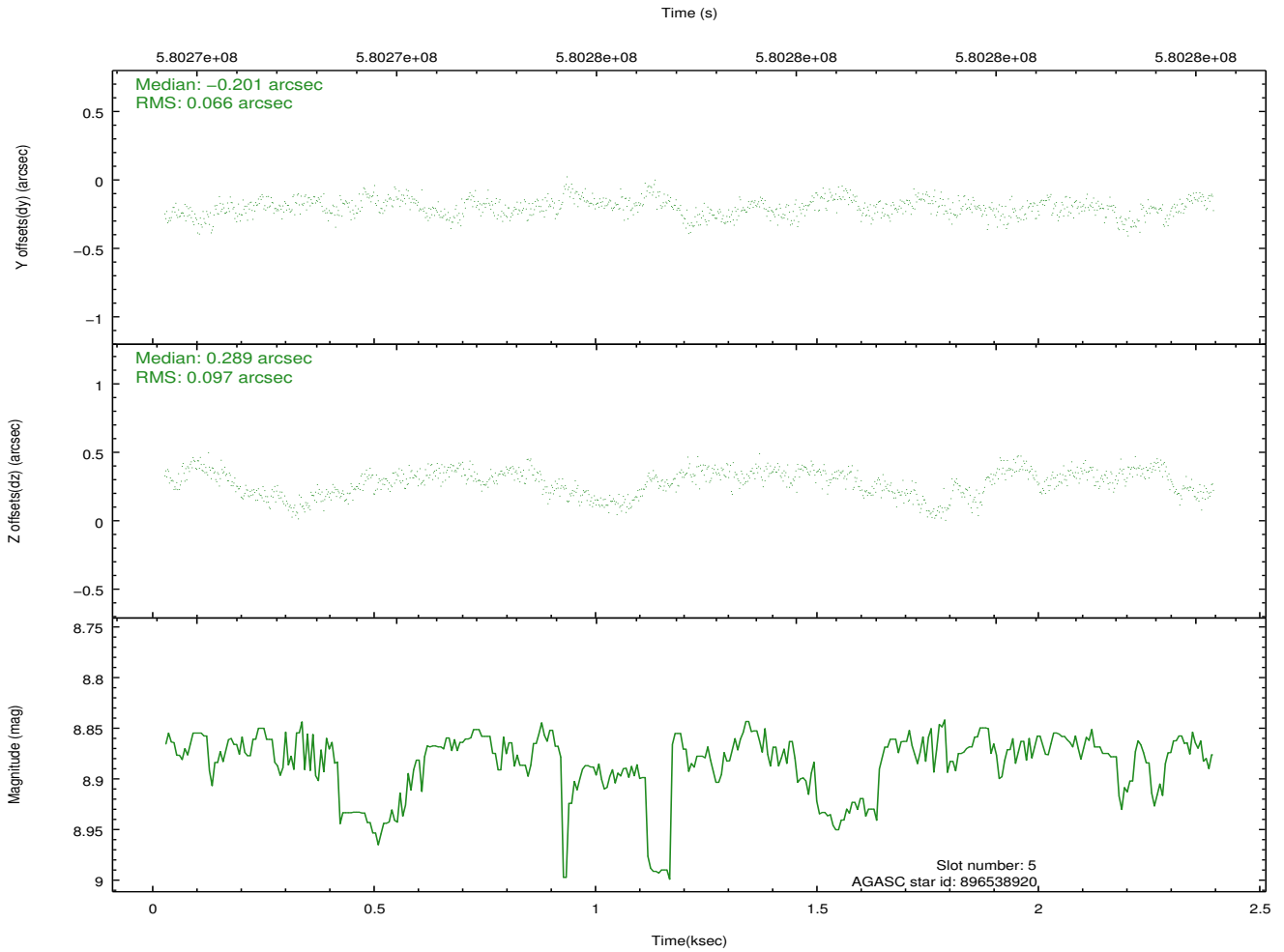
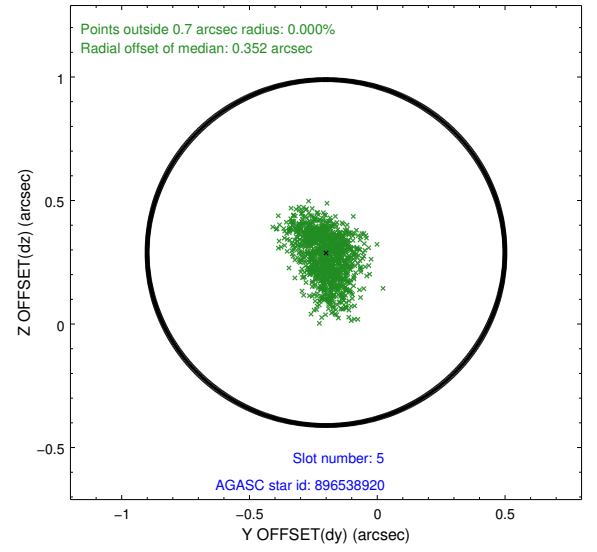
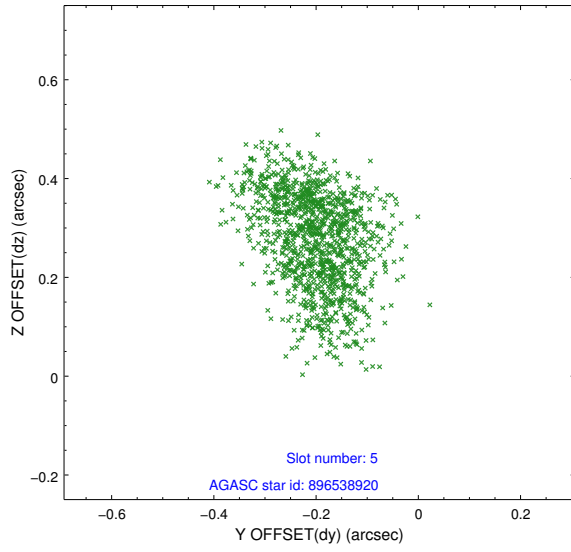
2.4.1 Slot 3



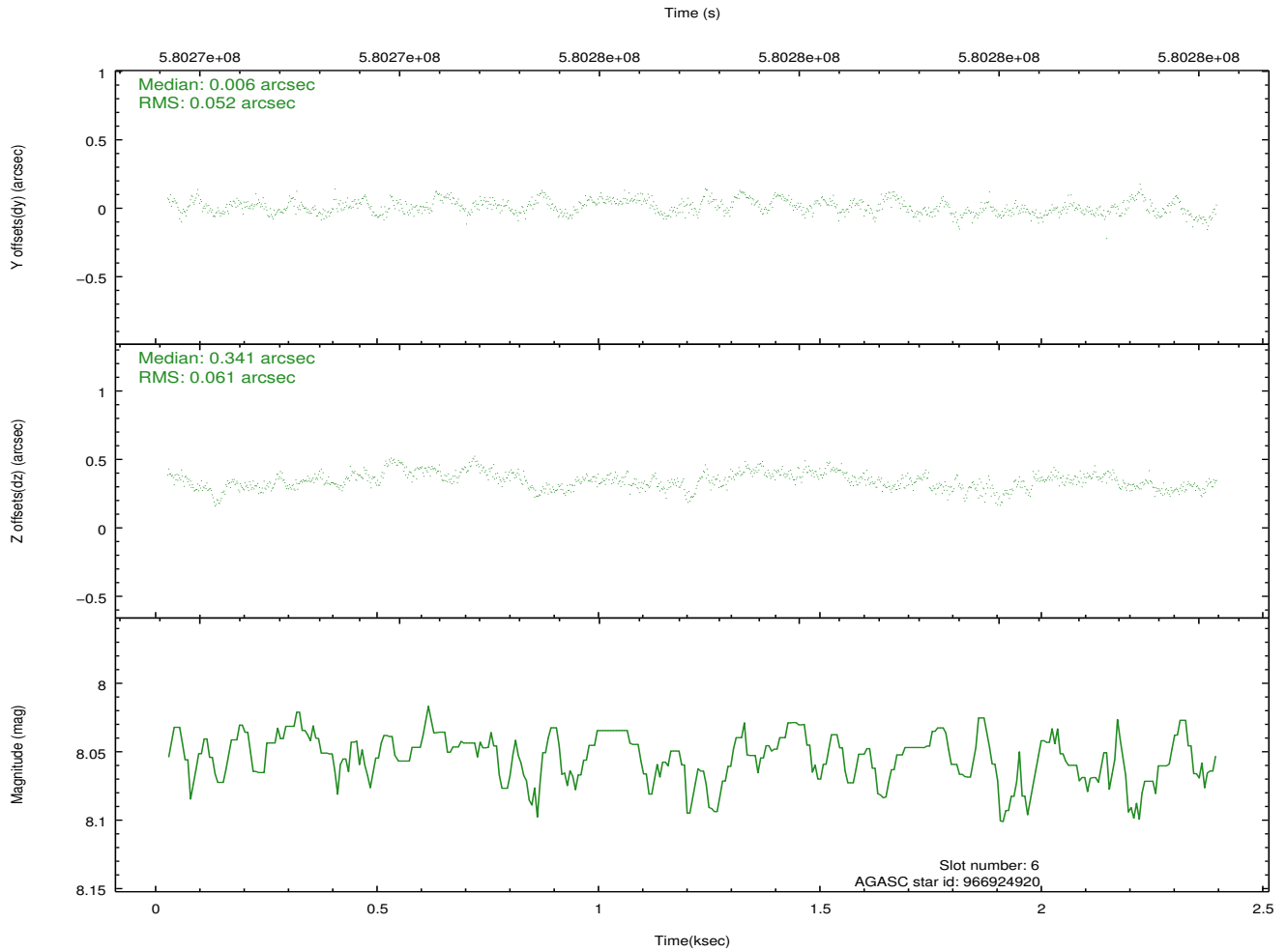
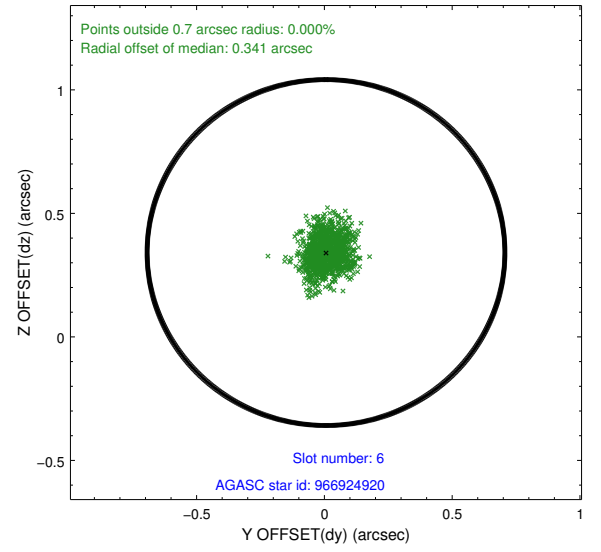
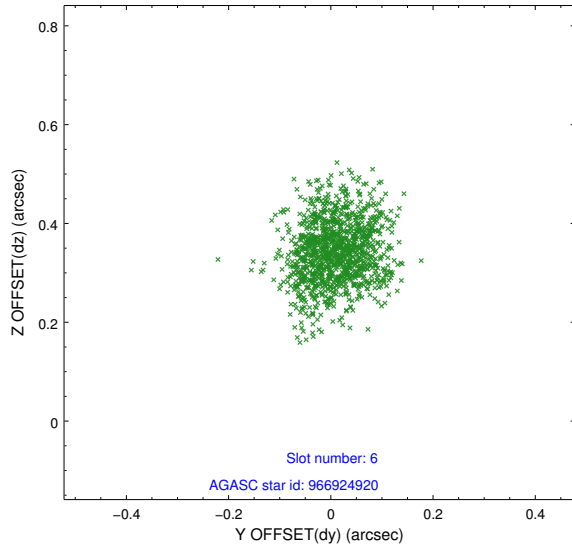
2.4.2 Slot 4



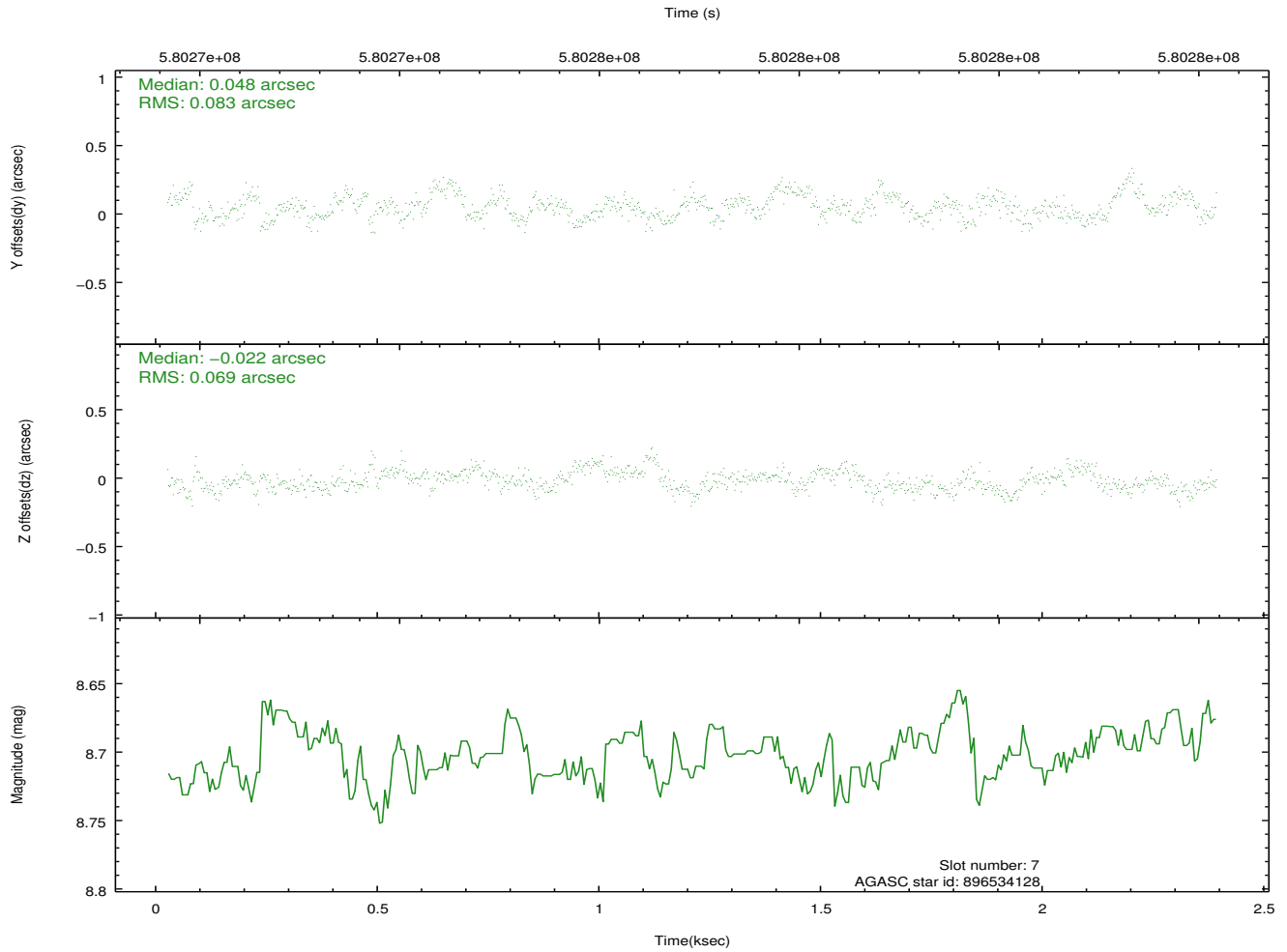
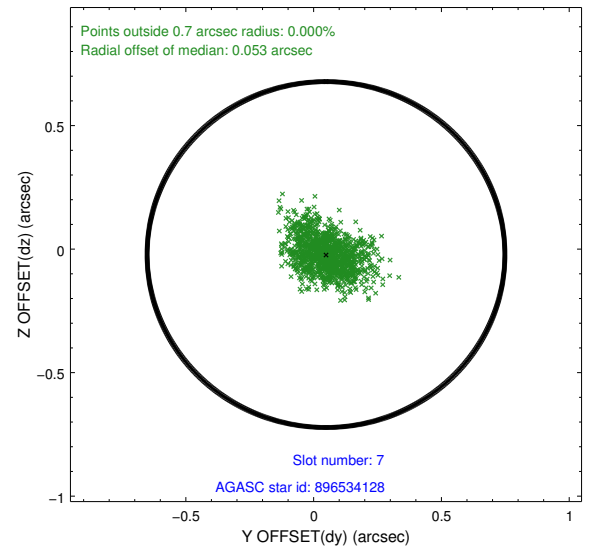
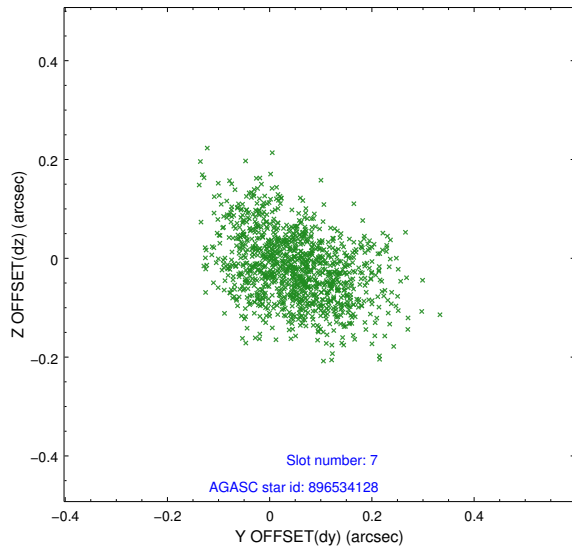
2.4.3 Slot 5



2.4.4 Slot 6

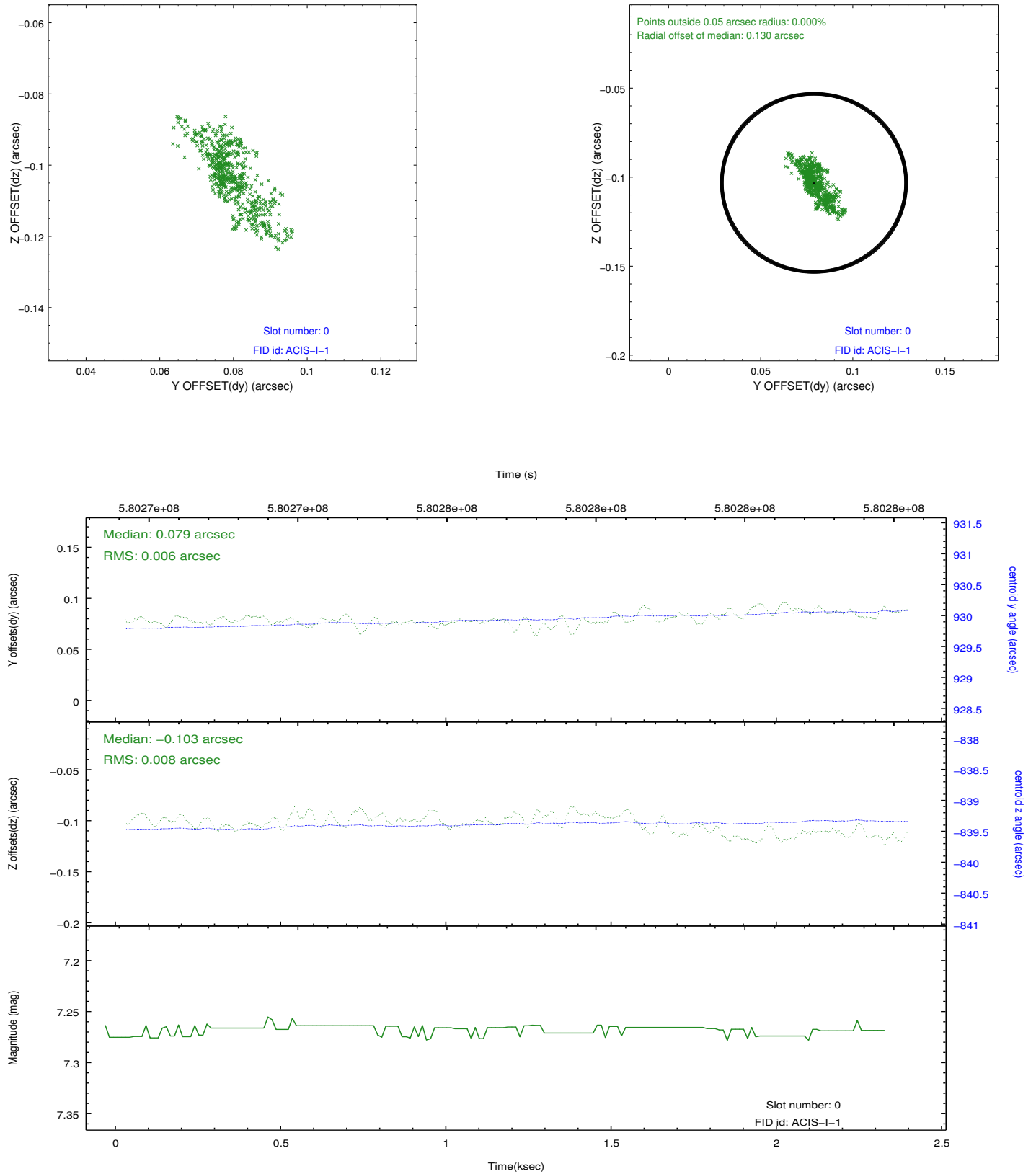


2.4.5 Slot 7

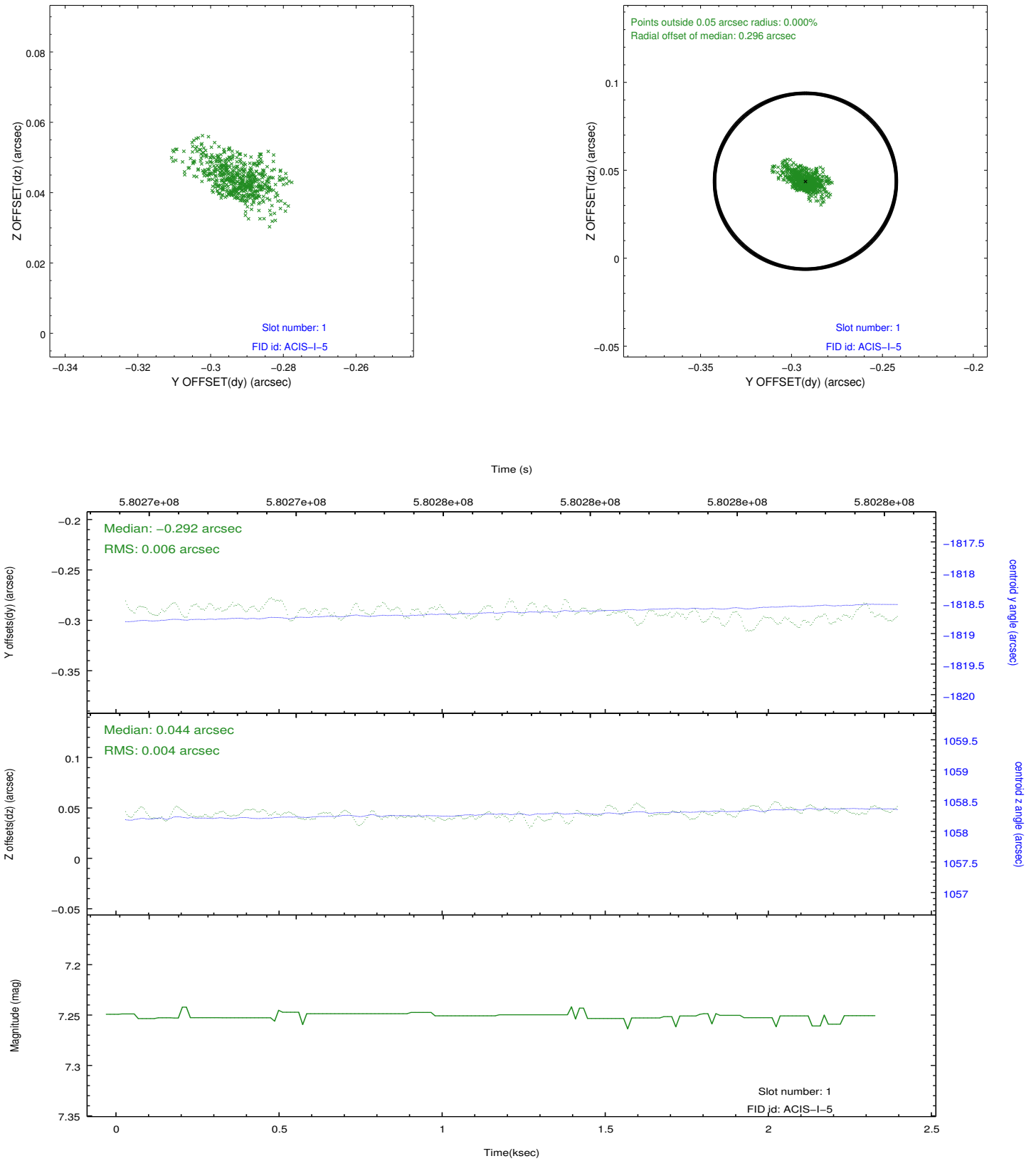


2.5 FID Slots

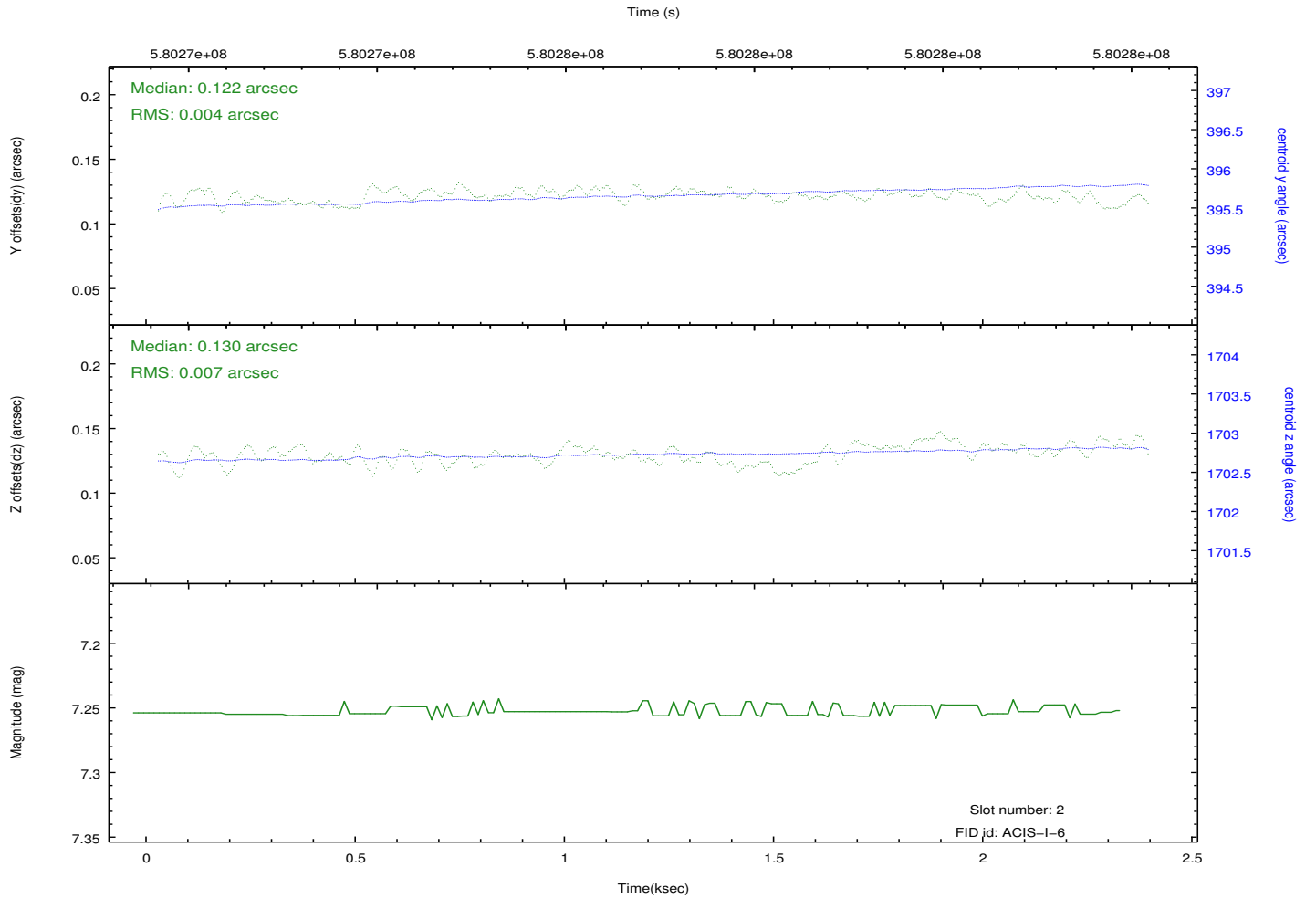
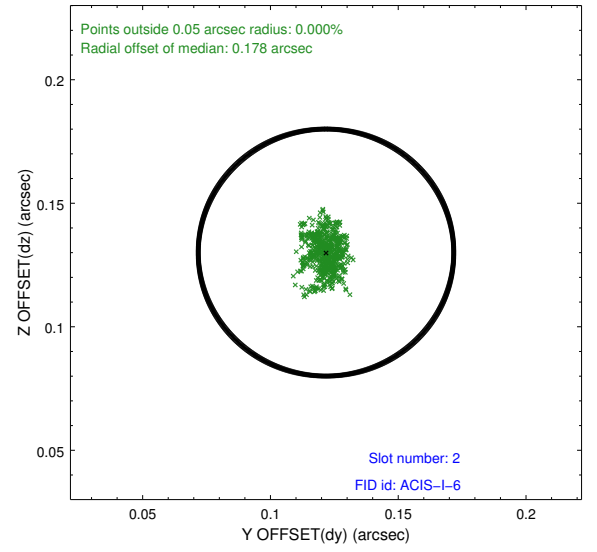
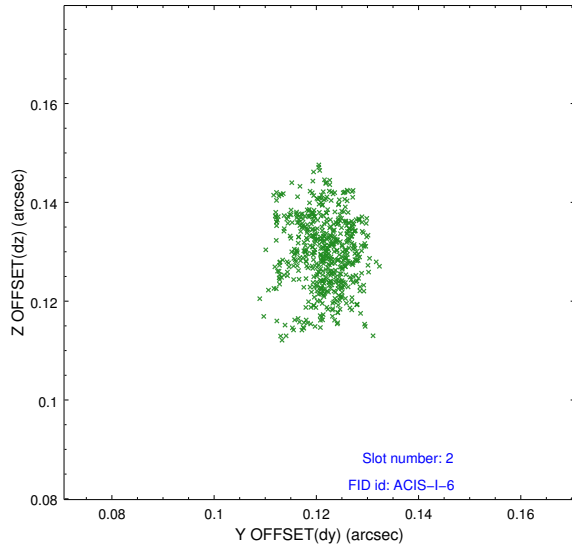
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9551824338436

A.2 Comments