

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18658 - L2 Version 1
Chandra X-Ray Center

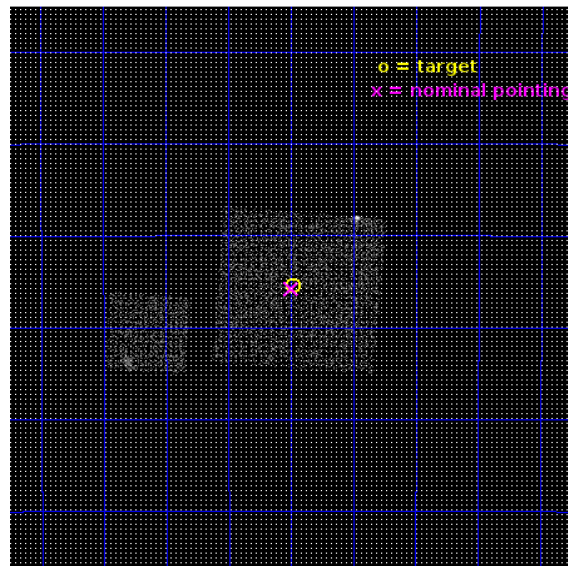
L2 Processing Date : Jul 31 2016

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1 Front

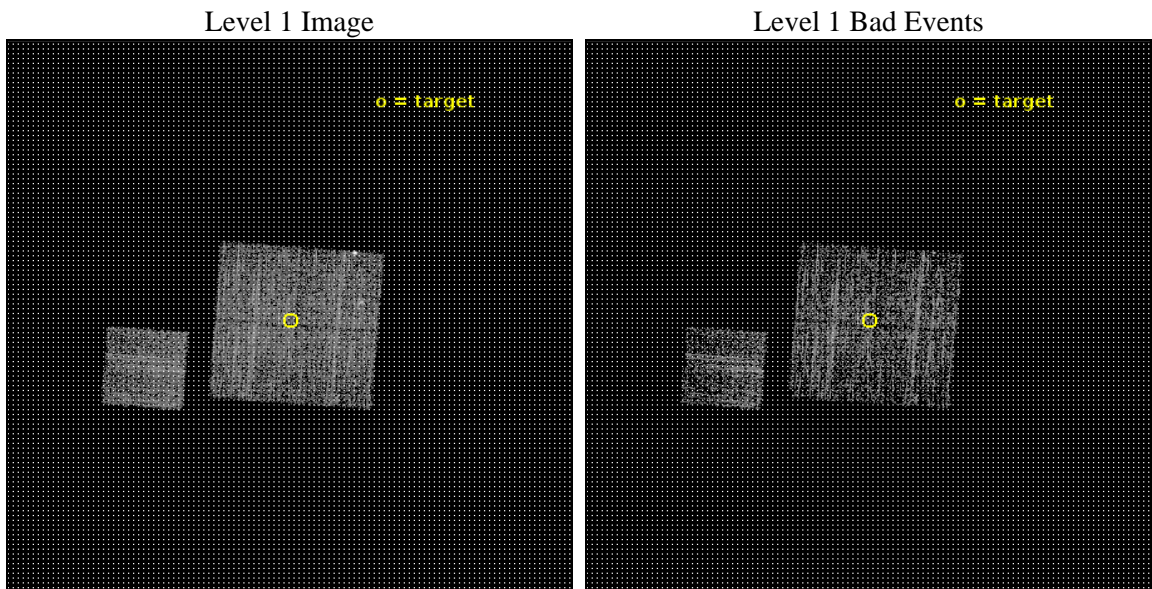
seq_num	300382	Sequence number
obs_id	18658	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.49581	Observer's specified target RA [deg]
dec_targ	-29.25707	Observer's specified target Dec [deg]
ra_nom	264.4991445477	Nominal RA [deg]
dec_nom	-29.263305221747	Nominal Dec [deg]
roll_nom	274.34390720587	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.7877107859	Sum of GTIs [s]
livetime	1930.2339045145	Livetime [s]
ontime0	1952.5235507488	Sum of GTIs [s]
ontime1	1955.7056307793	Sum of GTIs [s]
ontime2	1955.7466708422	Sum of GTIs [s]
ontime3	1955.7877107859	Sum of GTIs [s]
ontime6	1955.6235507727	Sum of GTIs [s]
l2events	9017	Number of level 2 events



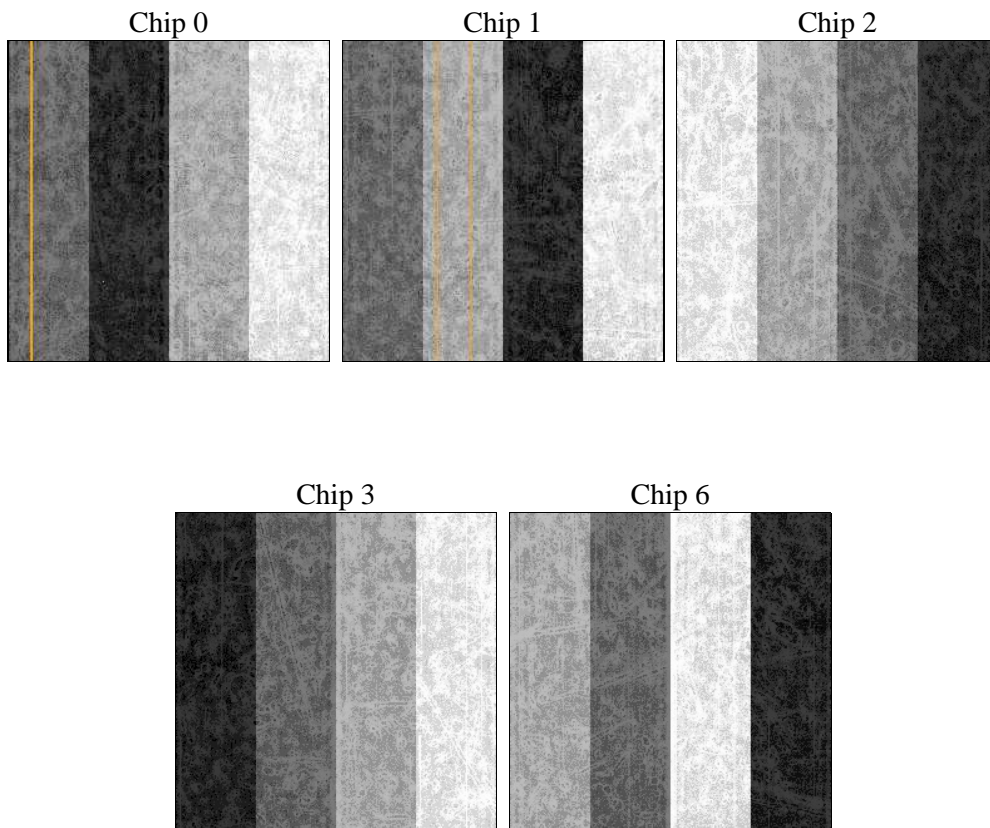
2 OBI

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	10.5	Processing system revision	ontime	1955.7877107859	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1952.5235507488	Sum of GTIs [s]
date	2016-07-31T17:53:05	Date and time of file creation	ontime1	1955.7056307793	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.7466708422	Sum of GTIs [s]
			ontime3	1955.7877107859	Sum of GTIs [s]
			ontime6	1955.6235507727	Sum of GTIs [s]
			l1events	63059	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11173	14434	12806	12374	12272
rejected events	9578	10310	11214	10809	10600
rejected %	85%	71%	87%	87%	86%

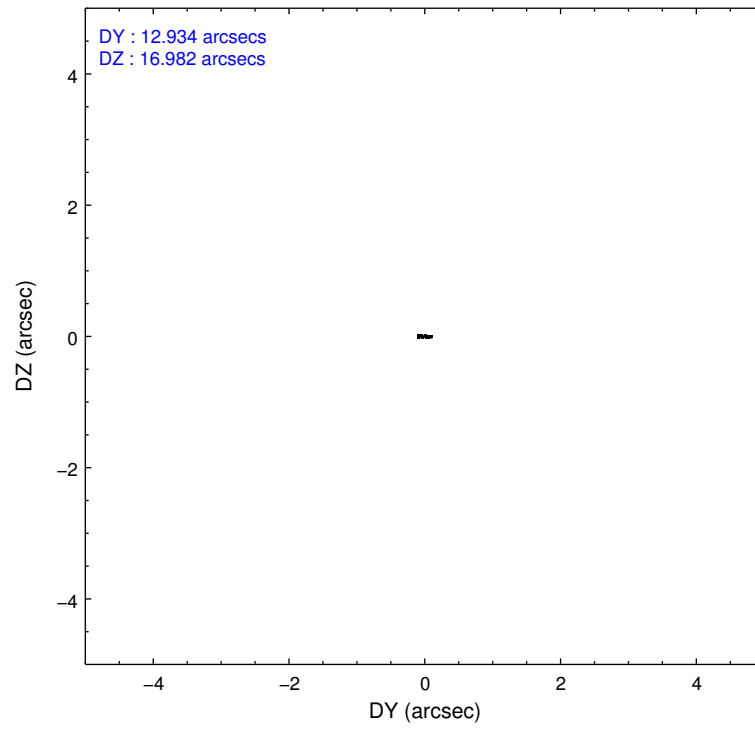
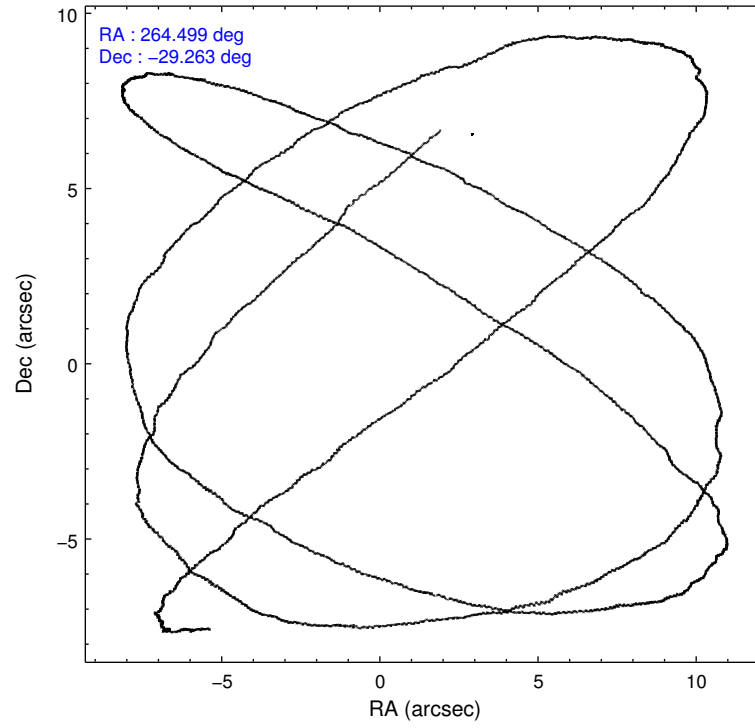
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	601	2441	619	644	656
	5%	16%	4%	5%	5%
grade 1 events	4	43	7	11	6
	0%	0%	0%	0%	0%
grade 2 events	404	662	354	336	363
	3%	4%	2%	2%	2%
grade 3 events	152	281	143	138	165
	1%	1%	1%	1%	1%
grade 4 events	163	255	170	136	158
	1%	1%	1%	1%	1%
grade 5 events	570	630	537	662	624
	5%	4%	4%	5%	5%
grade 6 events	277	488	307	314	332
	2%	3%	2%	2%	2%
grade 7 events	9002	9634	10669	10133	9968
	80%	66%	83%	81%	81%

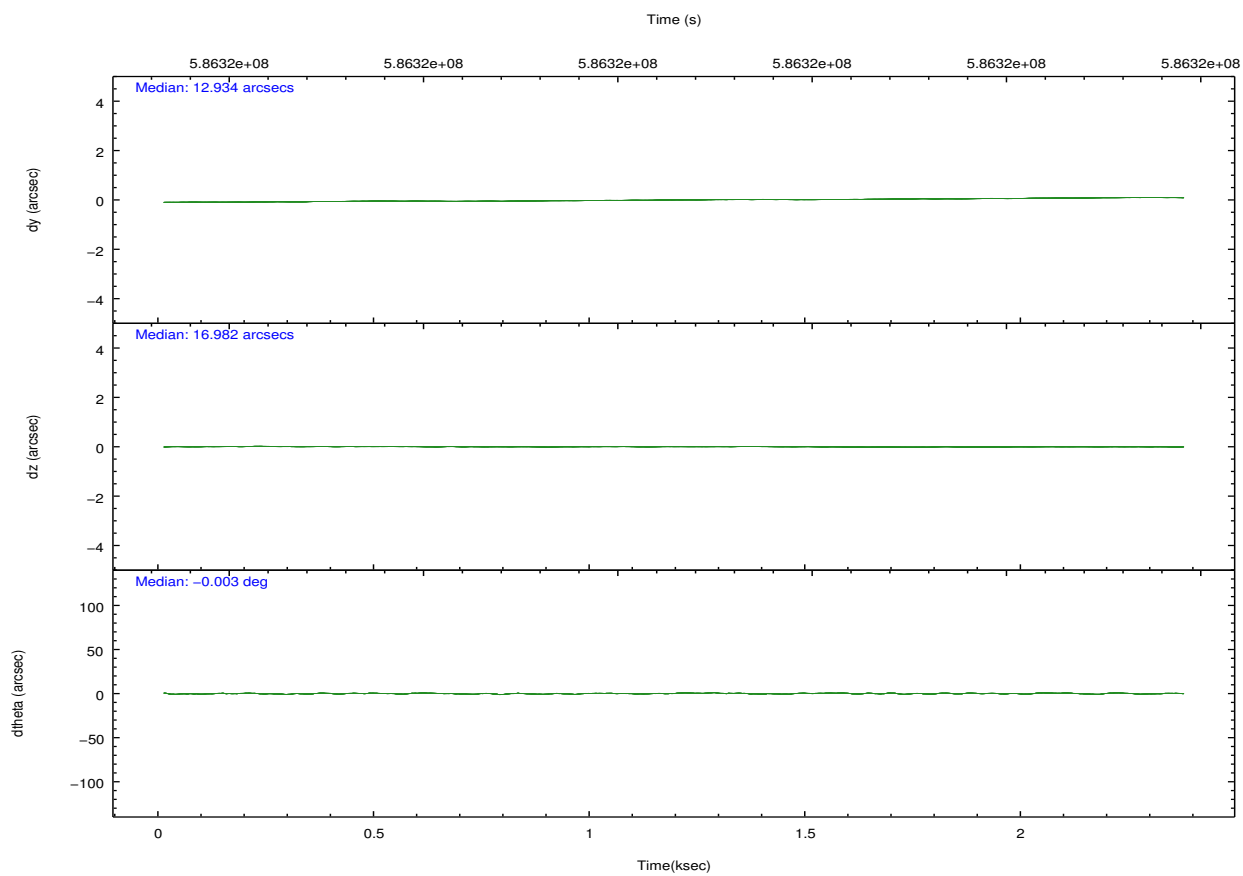
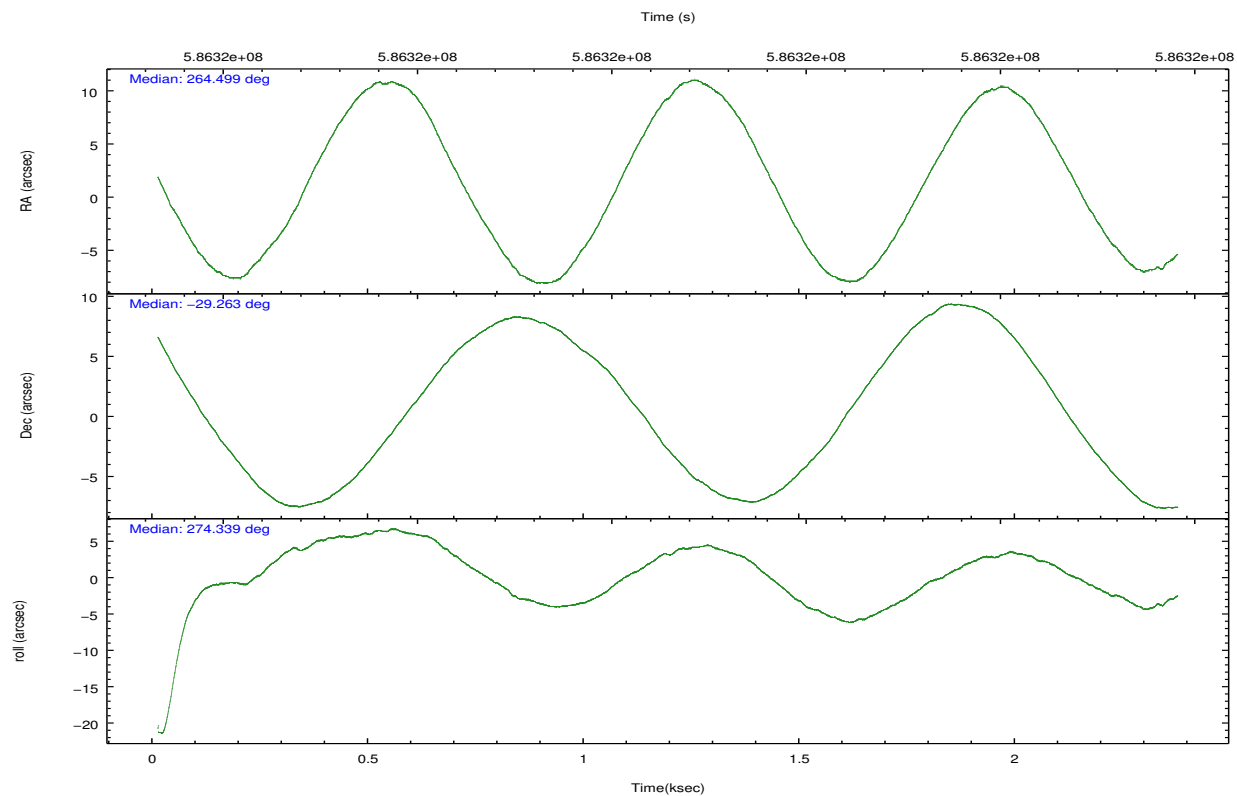
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	264.481327	264.4991445477033
[deg] Pointing Dec	-29.240422	-29.26330522174694
[deg] Pointing Roll	274.126527	274.3439072058715
[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)	586321160.184000	586320783.9970599
Observation start date	2016-07-31T02:58:12	2016-07-31T02:53:03
[s] Observation end time (MET)	586323340.184000	586323473.5972199
Observation end date	2016-07-31T03:34:32	2016-07-31T03:37:53
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
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



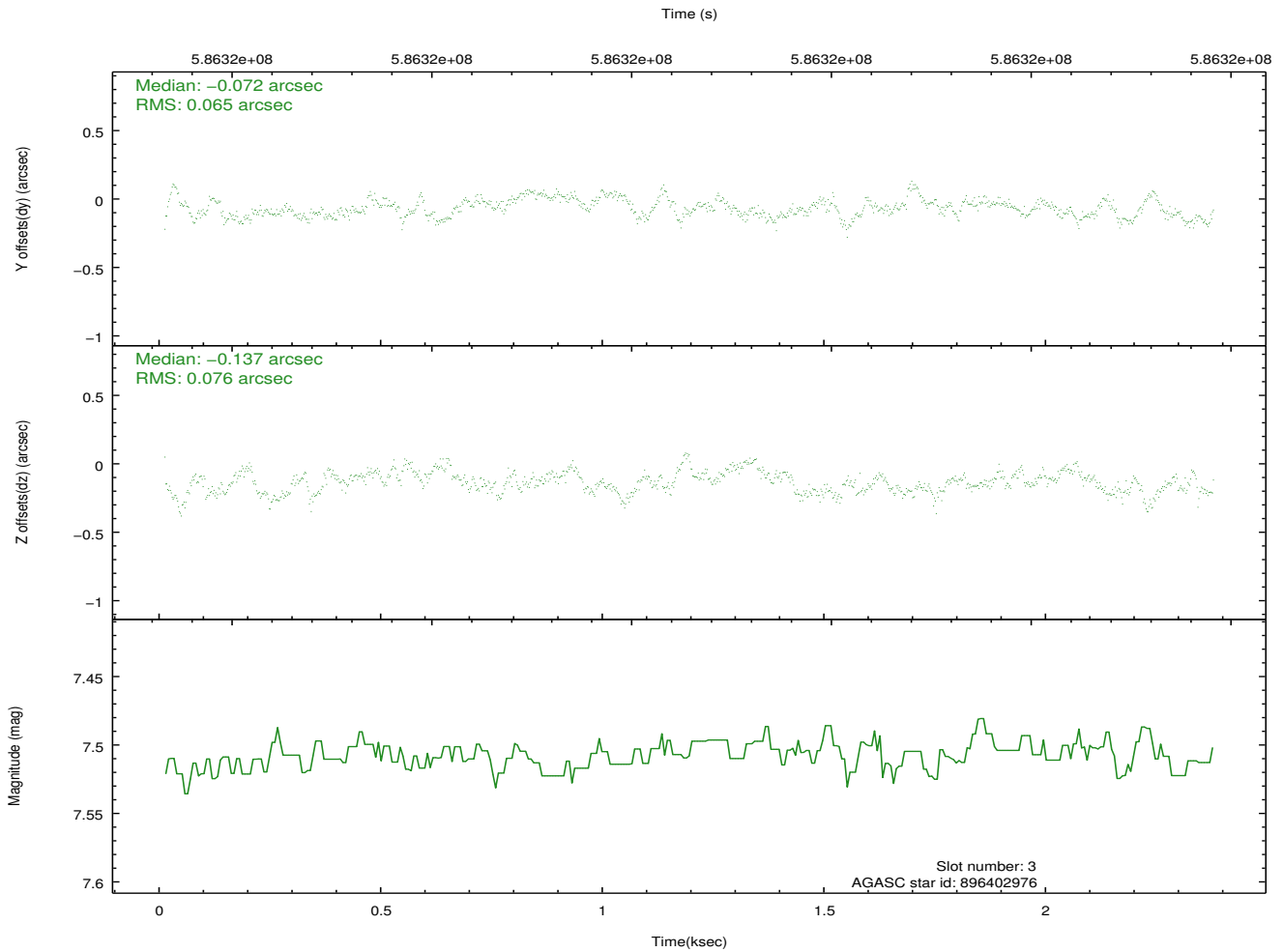
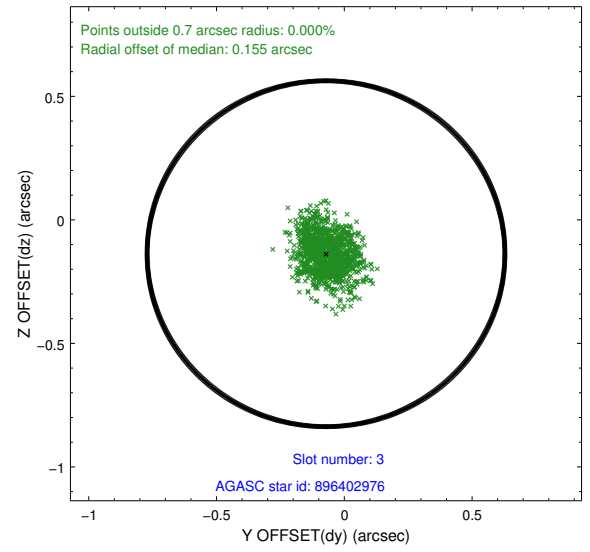
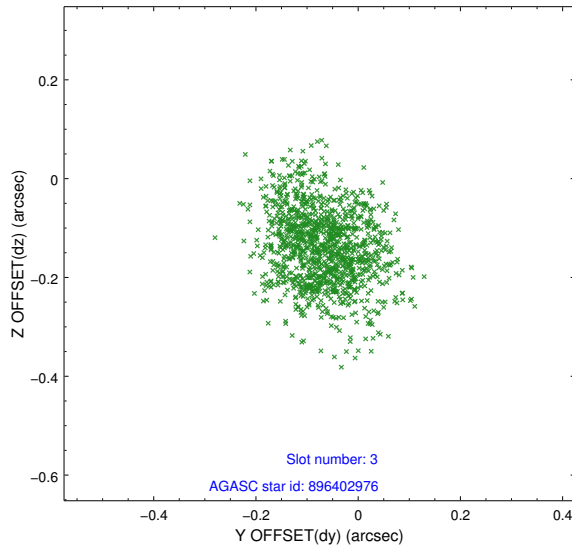


Slot Statistics

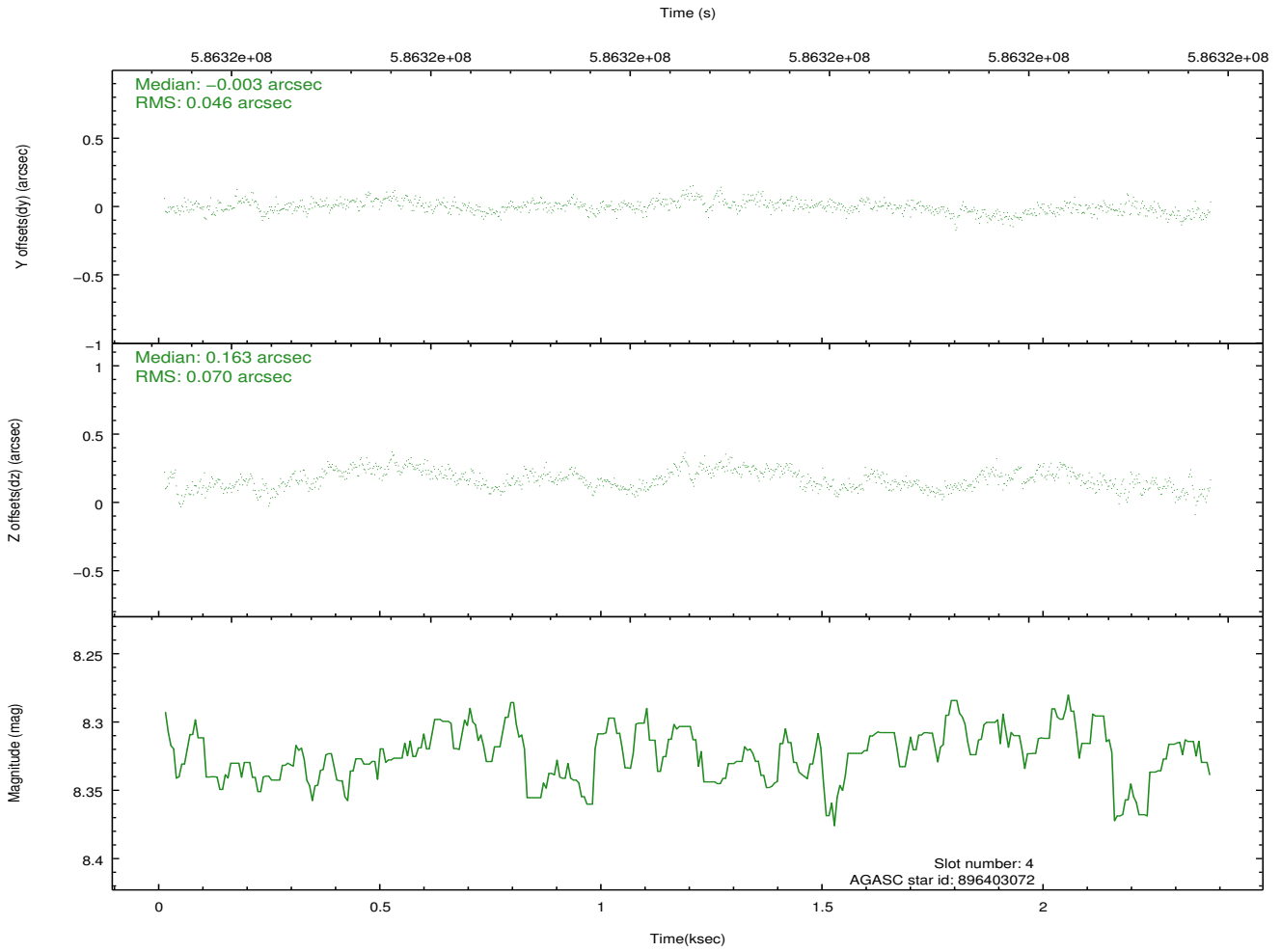
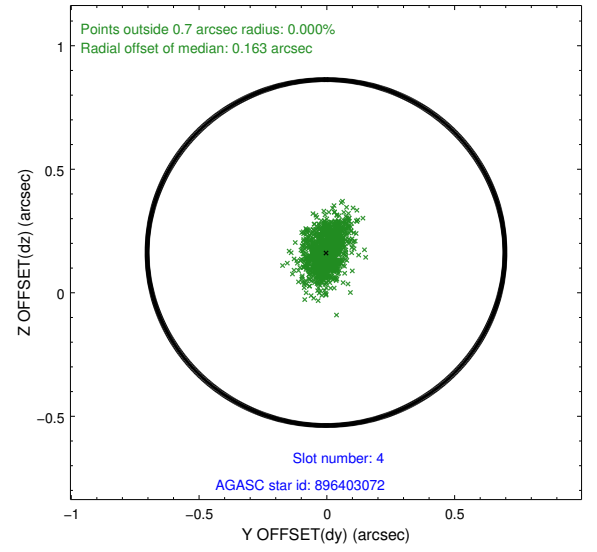
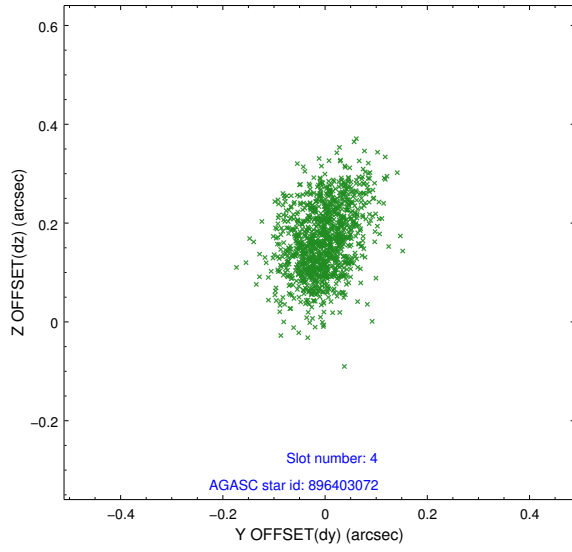
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	577	0.078	-0.061	0.006	0.011	0.000000	0.000000	926.68	-840.68
1	FID		ACIS-I-5	7.05	577	-0.293	0.052	0.006	0.009	0.000000	0.000000	-1820.31	1055.50
2	FID		ACIS-I-6	7.04	577	0.124	0.079	0.006	0.011	0.000000	0.000000	389.24	1703.17
3	GUIDE	used	896402976	7.51	1155	-0.072	-0.137	0.106	0.175	265.099474	-28.923203	-994.33	2024.94
4	GUIDE	used	896403072	8.32	1155	-0.003	0.163	0.088	0.150	263.956439	-28.943077	-1184.00	-1570.12
5	GUIDE	used	896405480	8.23	1155	-0.135	-0.027	0.093	0.149	265.220460	-29.599691	1462.21	2213.45
6	GUIDE	used	896405976	9.06	1153	0.002	0.118	0.127	0.200	264.638127	-28.604395	-2246.85	661.53
7	GUIDE	used	896406904	8.97	1153	0.203	-0.090	0.166	0.305	264.311862	-29.742267	1762.28	-657.16

2.4 Star Slots

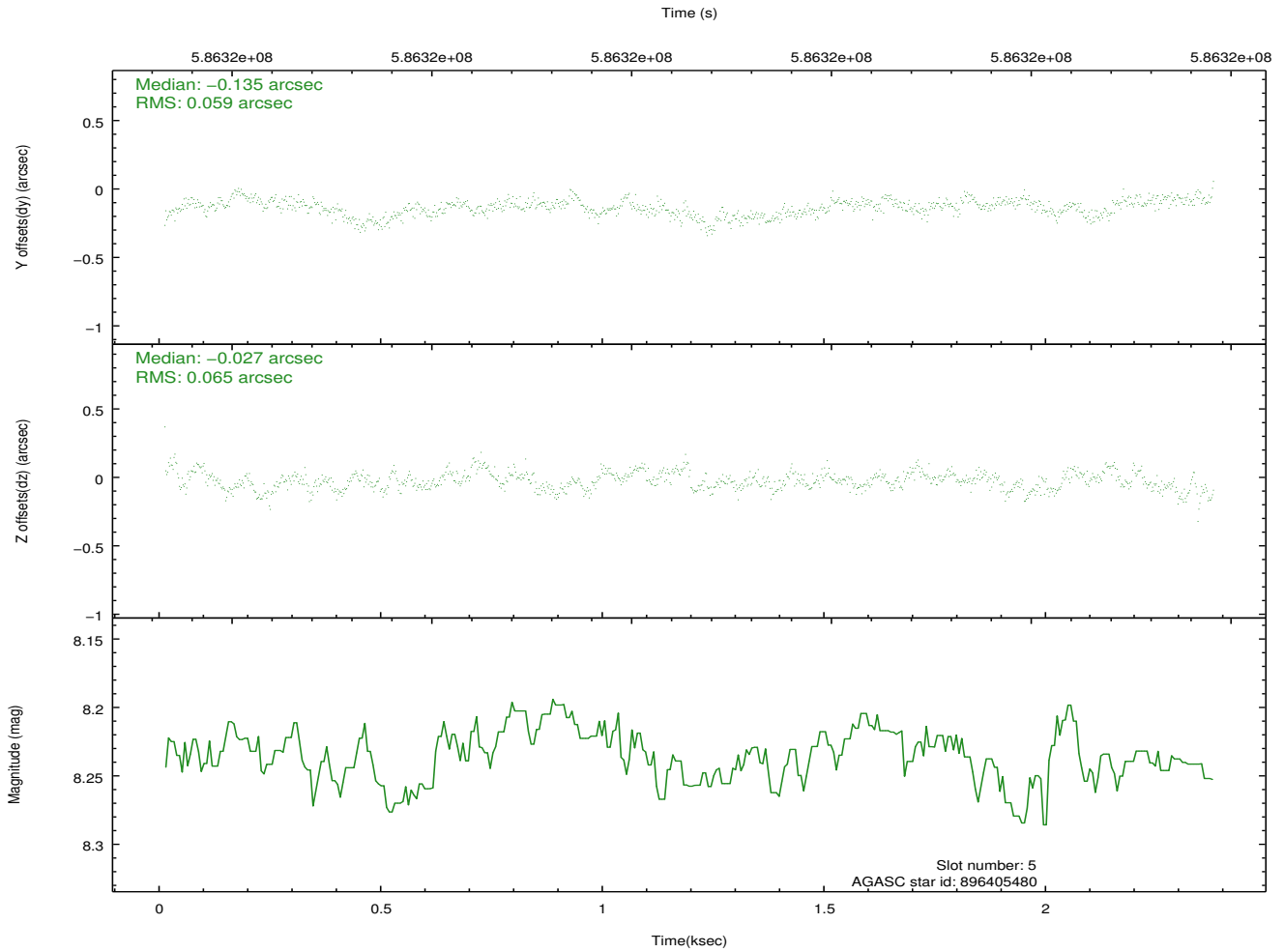
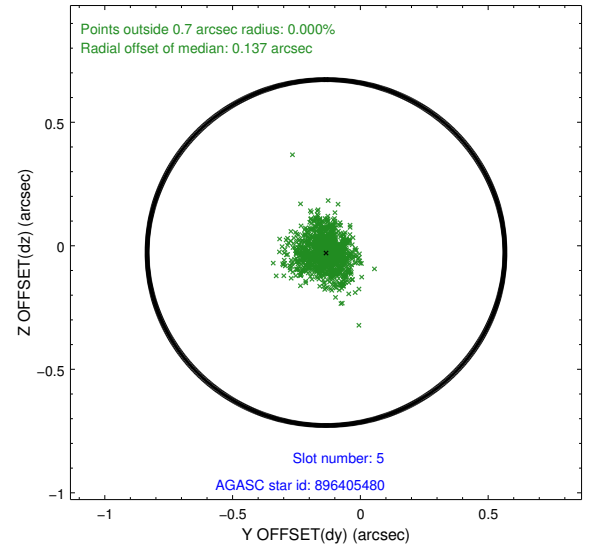
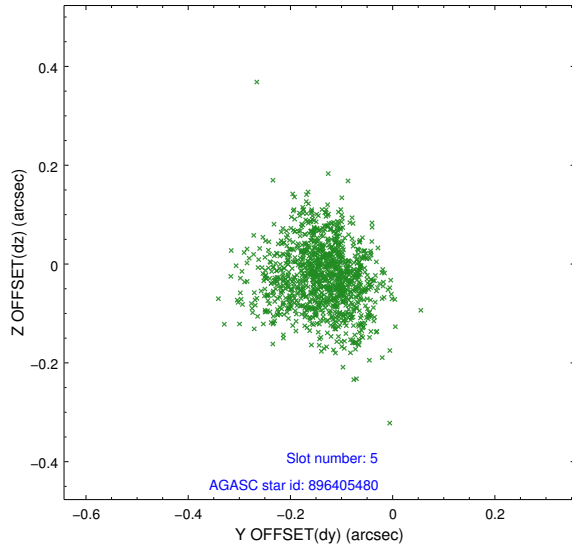
2.4.1 Slot 3



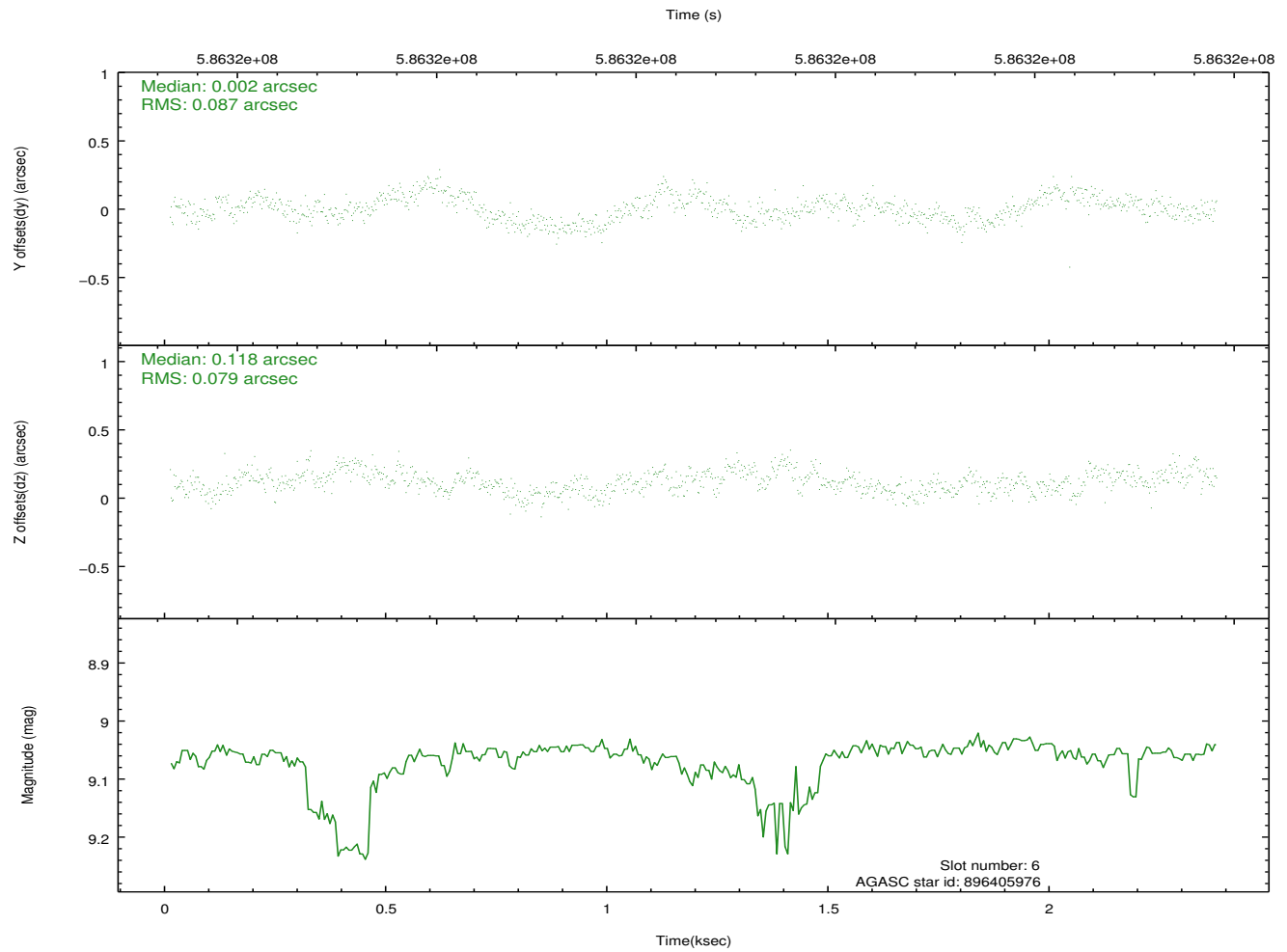
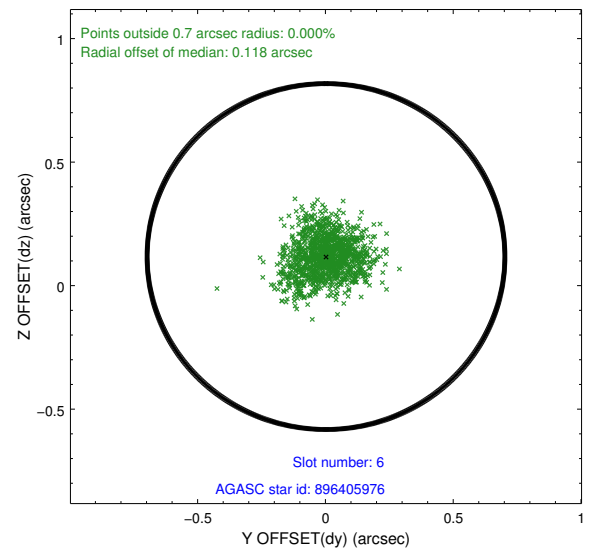
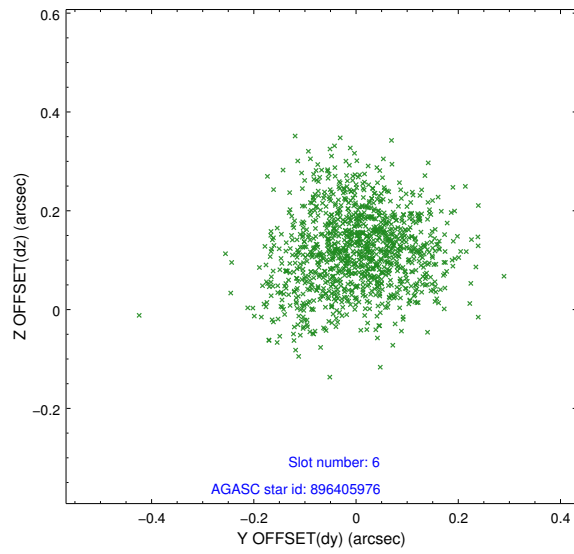
2.4.2 Slot 4



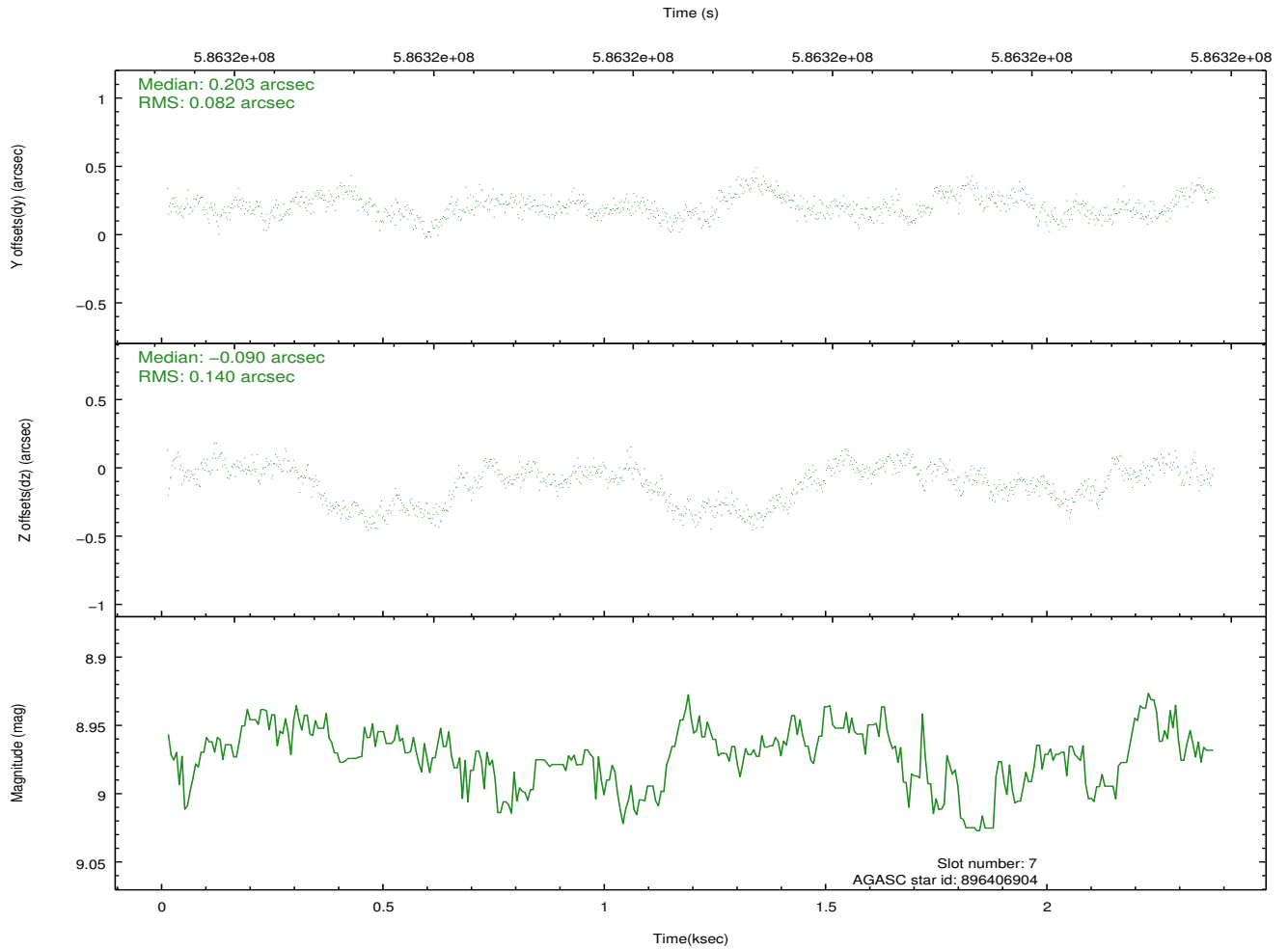
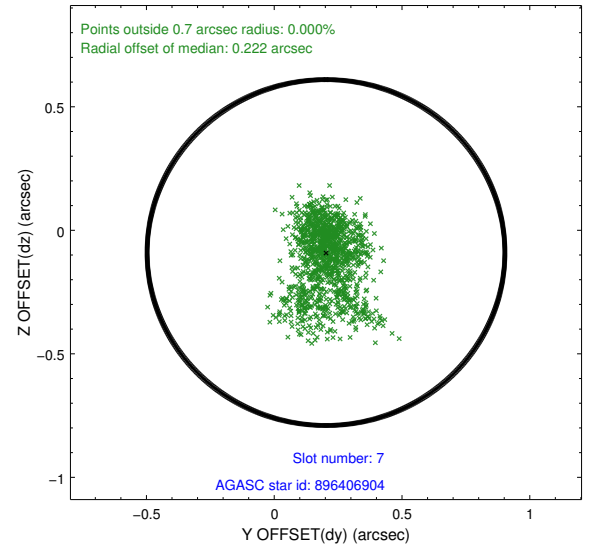
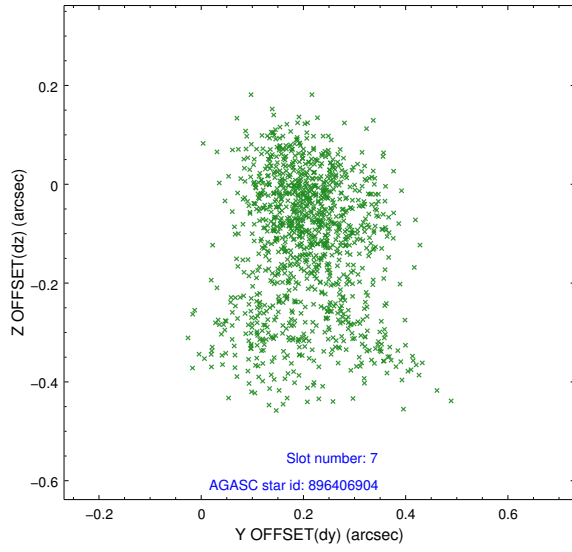
2.4.3 Slot 5



2.4.4 Slot 6

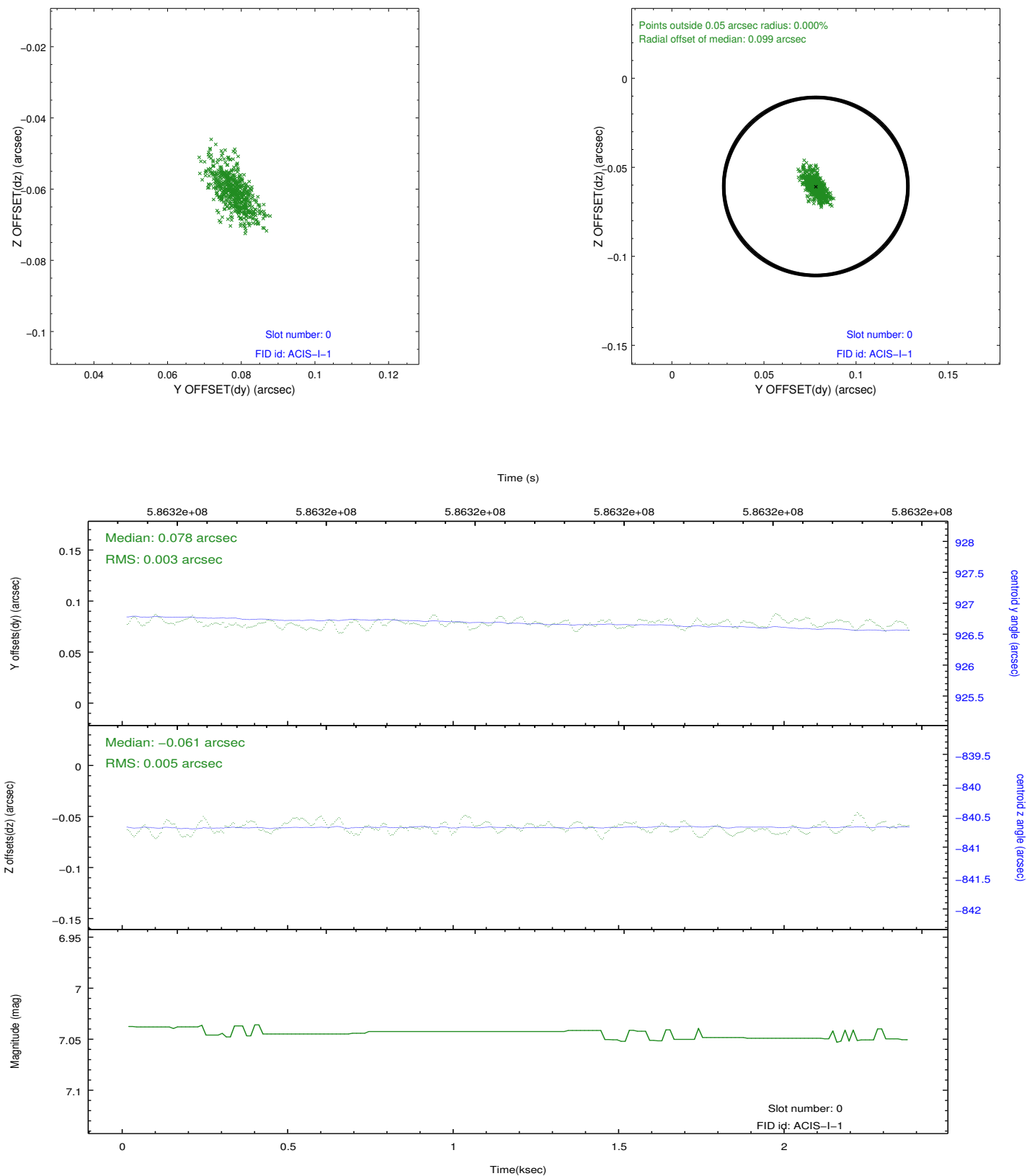


2.4.5 Slot 7

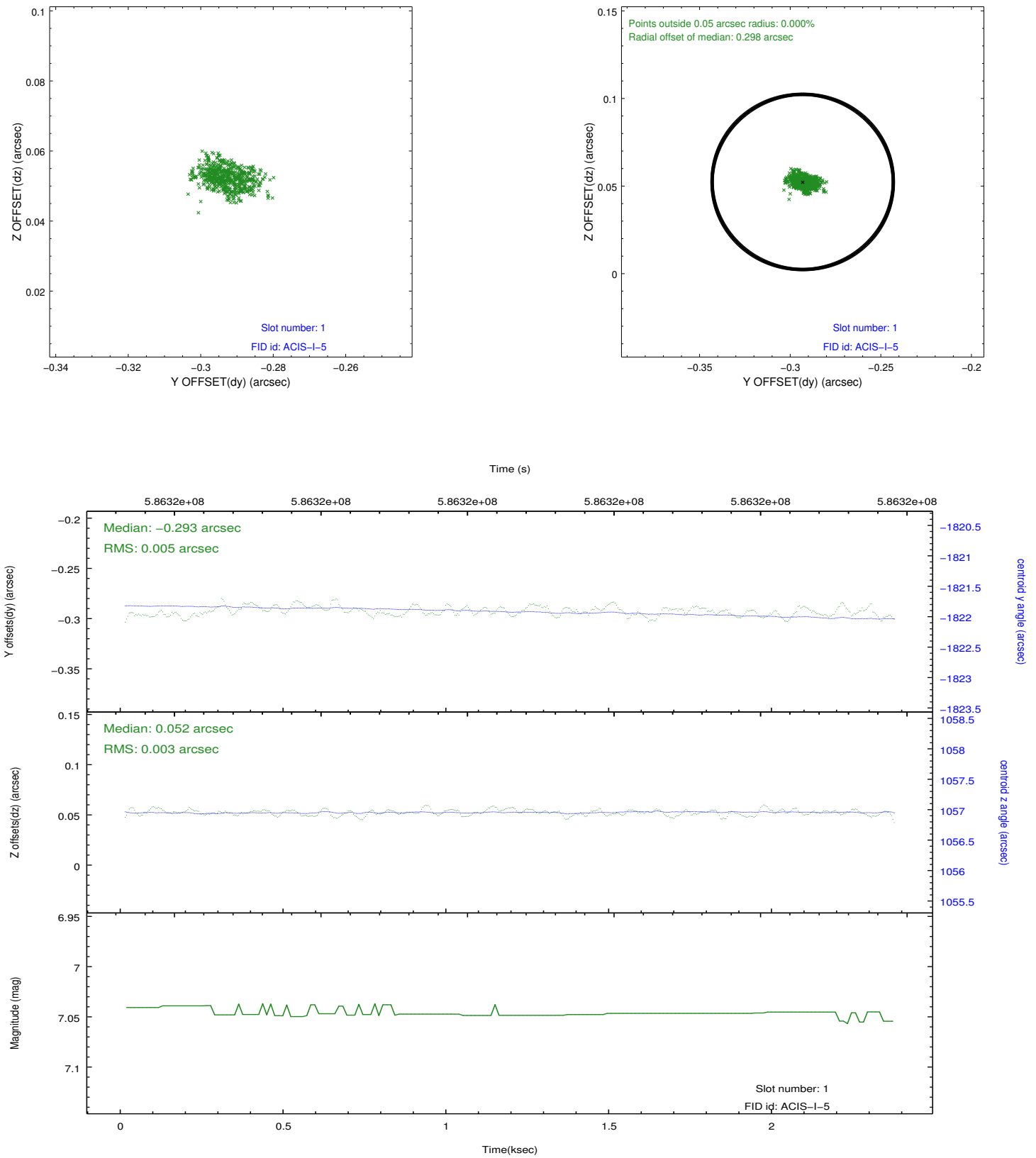


2.5 FID Slots

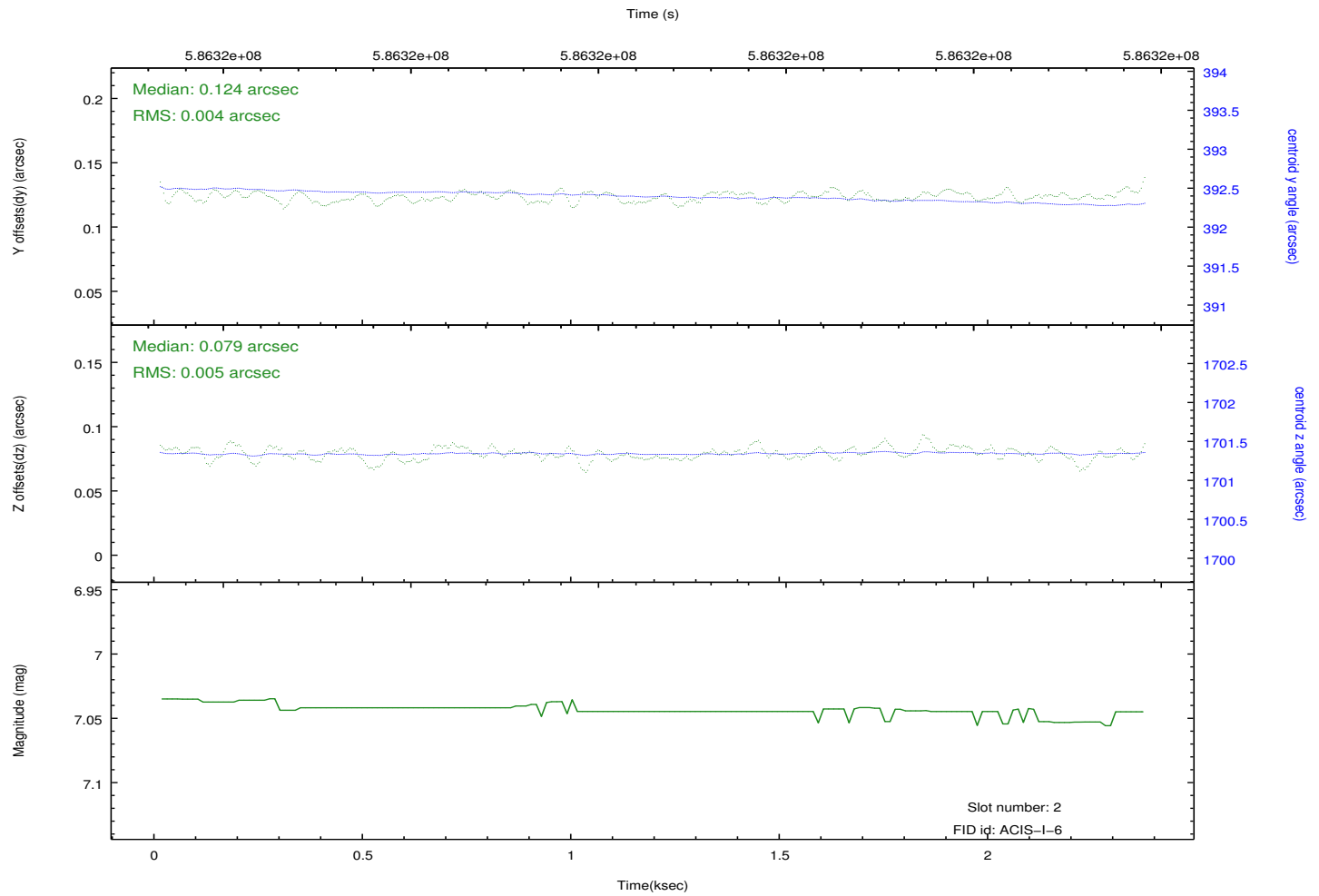
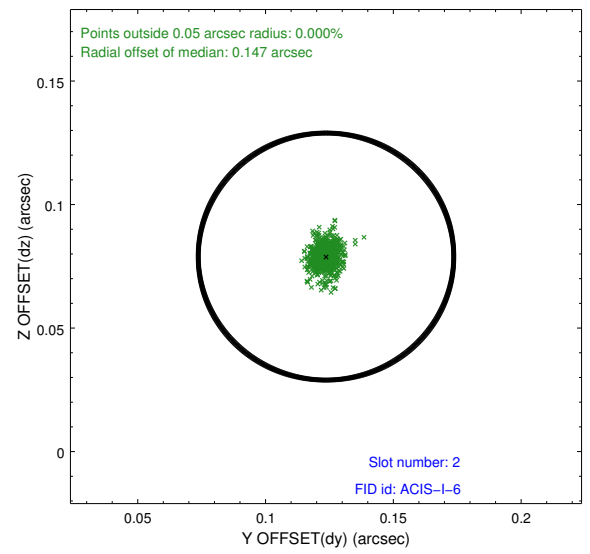
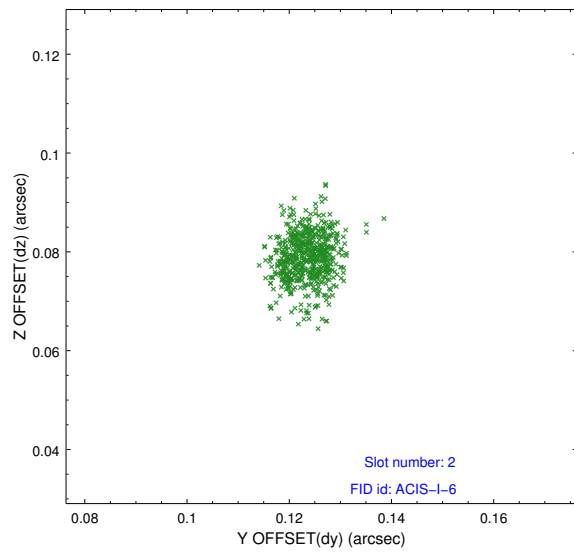
2.5.1 Slot 0



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)	2016.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9557877107859

A.2 Comments