

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18331 - L2 Version 1
Chandra X-Ray Center

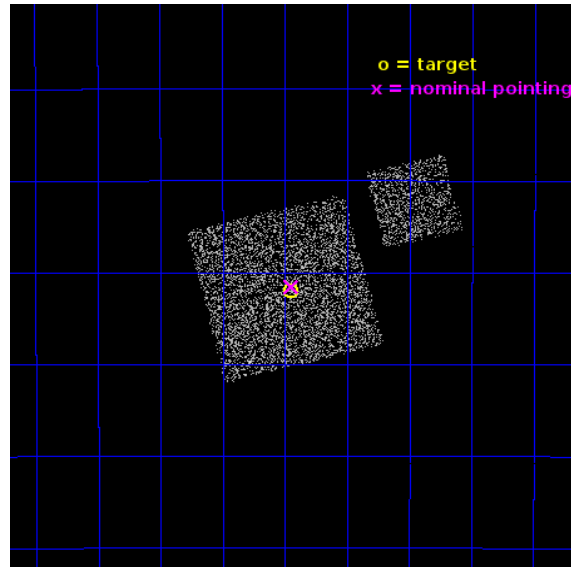
L2 Processing Date : May 22 2016

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1 Front

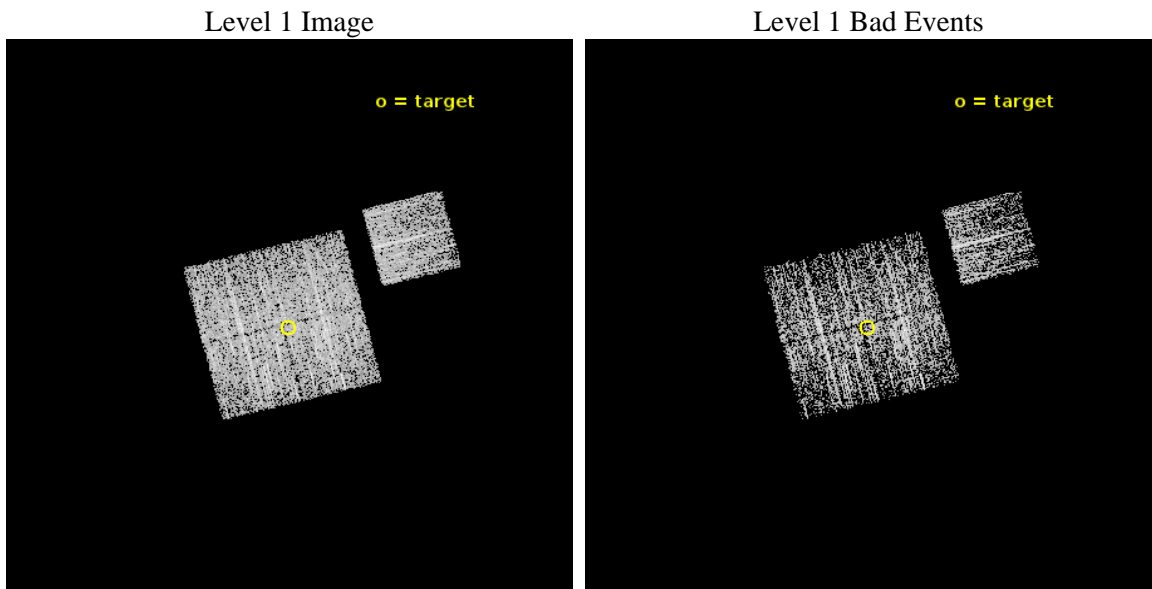
seq_num	300362	Sequence number
obs_id	18331	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.98796	Observer's specified target RA [deg]
dec_targ	-29.53313	Observer's specified target Dec [deg]
ra_nom	265.98697522608	Nominal RA [deg]
dec_nom	-29.52601462157	Nominal Dec [deg]
roll_nom	75.900600967508	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2076.1647006273	Sum of GTIs [s]
livetime	2049.0380803634	Livetime [s]
ontime0	2072.9005506039	Sum of GTIs [s]
ontime1	2076.0826206207	Sum of GTIs [s]
ontime2	2076.1236606836	Sum of GTIs [s]
ontime3	2076.1647006273	Sum of GTIs [s]
ontime6	2076.0005406141	Sum of GTIs [s]
l2events	8104	Number of level 2 events



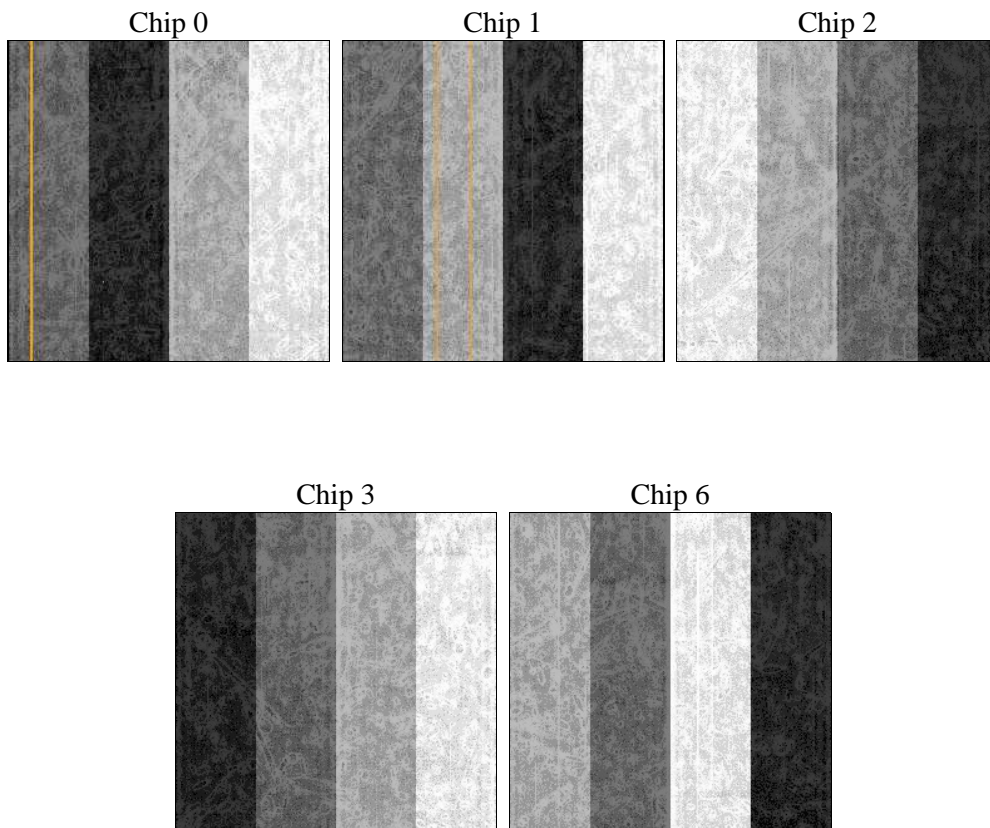
2 OBI

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	10.4.3.1	Processing system revision	ontime	2076.1647006273	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	2072.9005506039	Sum of GTIs [s]
date	2016-05-22T07:33:18	Date and time of file creation	ontime1	2076.0826206207	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	2076.1236606836	Sum of GTIs [s]
			ontime3	2076.1647006273	Sum of GTIs [s]
			ontime6	2076.0005406141	Sum of GTIs [s]
			l1events	65175	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	12711	13607	12429	13774	12654
rejected events	10769	11531	10647	11904	11081
rejected %	84%	84%	85%	86%	87%

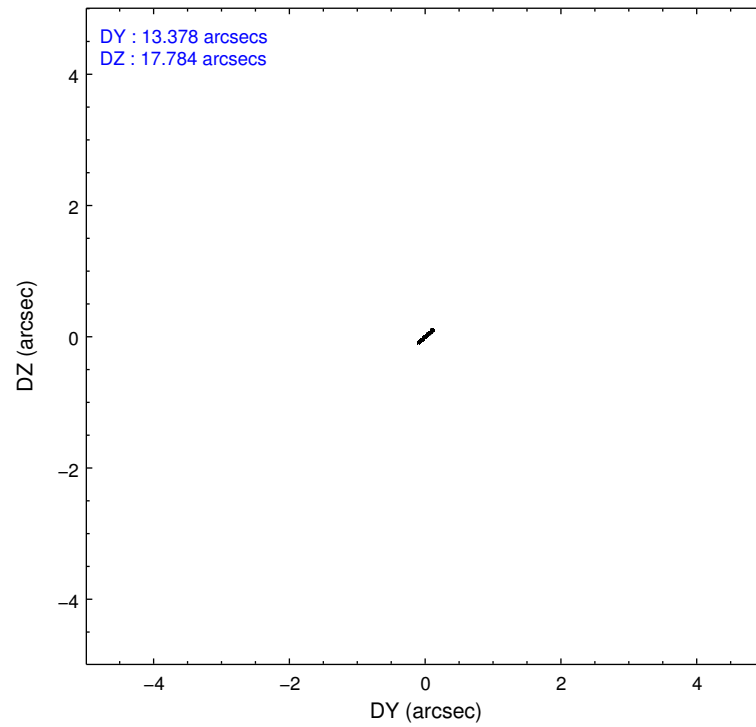
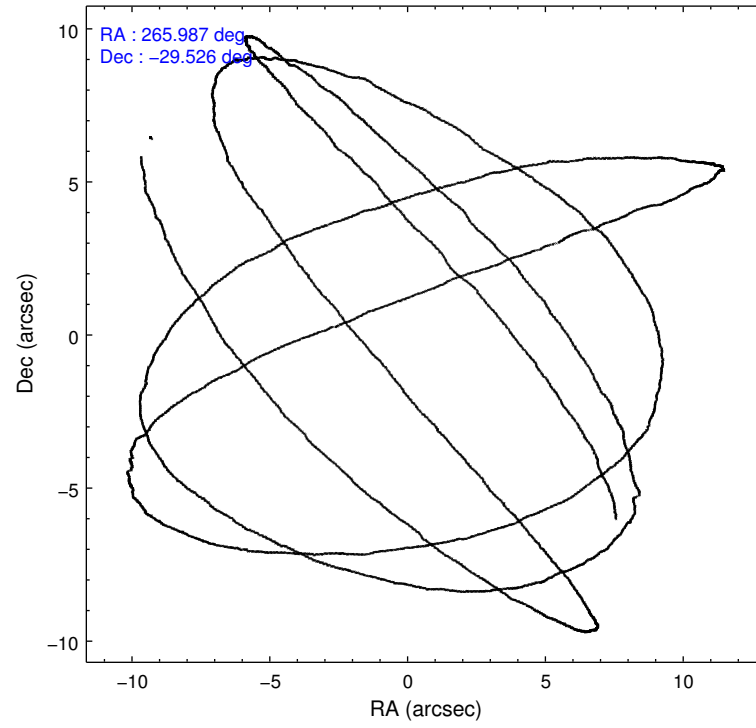
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	858	891	741	786	573
	6%	6%	5%	5%	4%
grade 1 events	11	8	7	7	7
	0%	0%	0%	0%	0%
grade 2 events	386	473	379	401	350
	3%	3%	3%	2%	2%
grade 3 events	168	168	151	165	140
	1%	1%	1%	1%	1%
grade 4 events	189	158	190	185	133
	1%	1%	1%	1%	1%
grade 5 events	567	609	531	613	555
	4%	4%	4%	4%	4%
grade 6 events	344	390	331	338	380
	2%	2%	2%	2%	3%
grade 7 events	10188	10910	10099	11279	10516
	80%	80%	81%	81%	83%

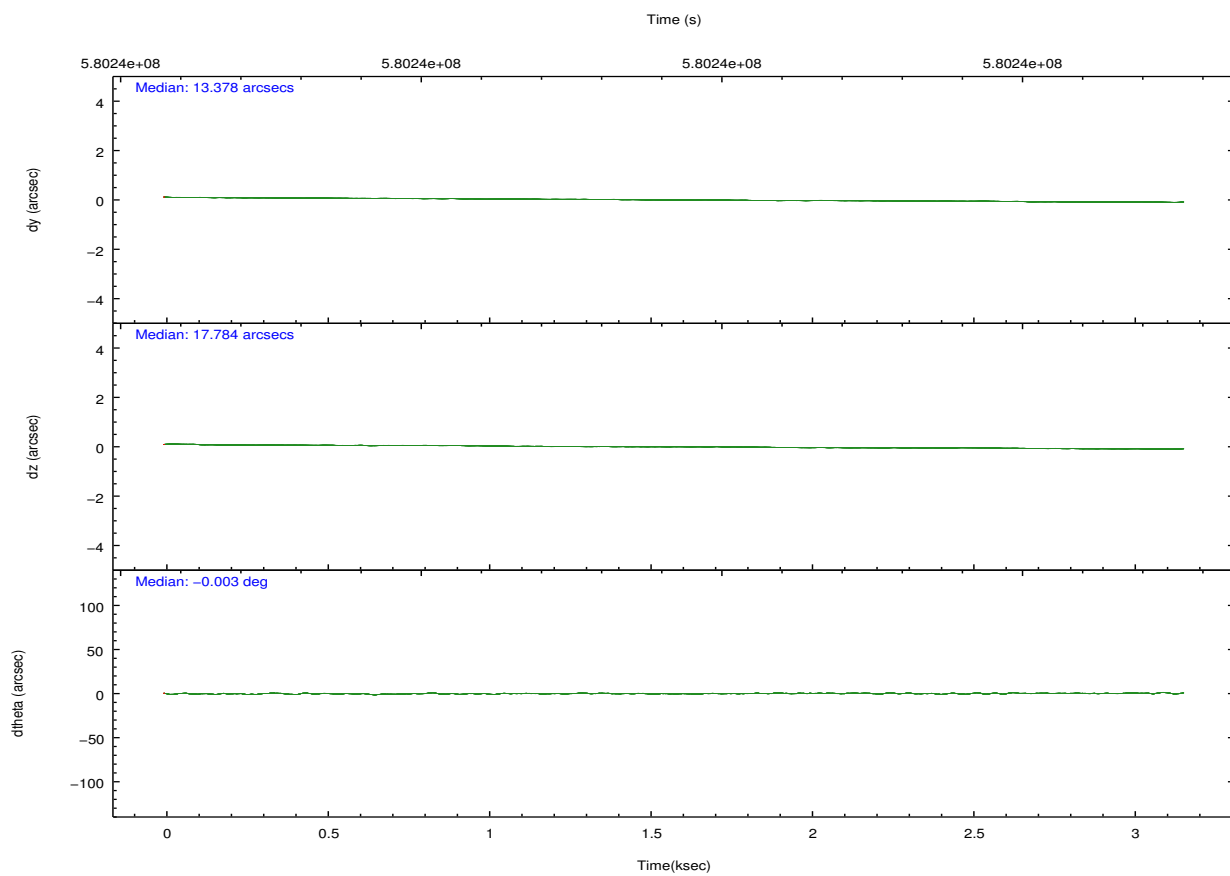
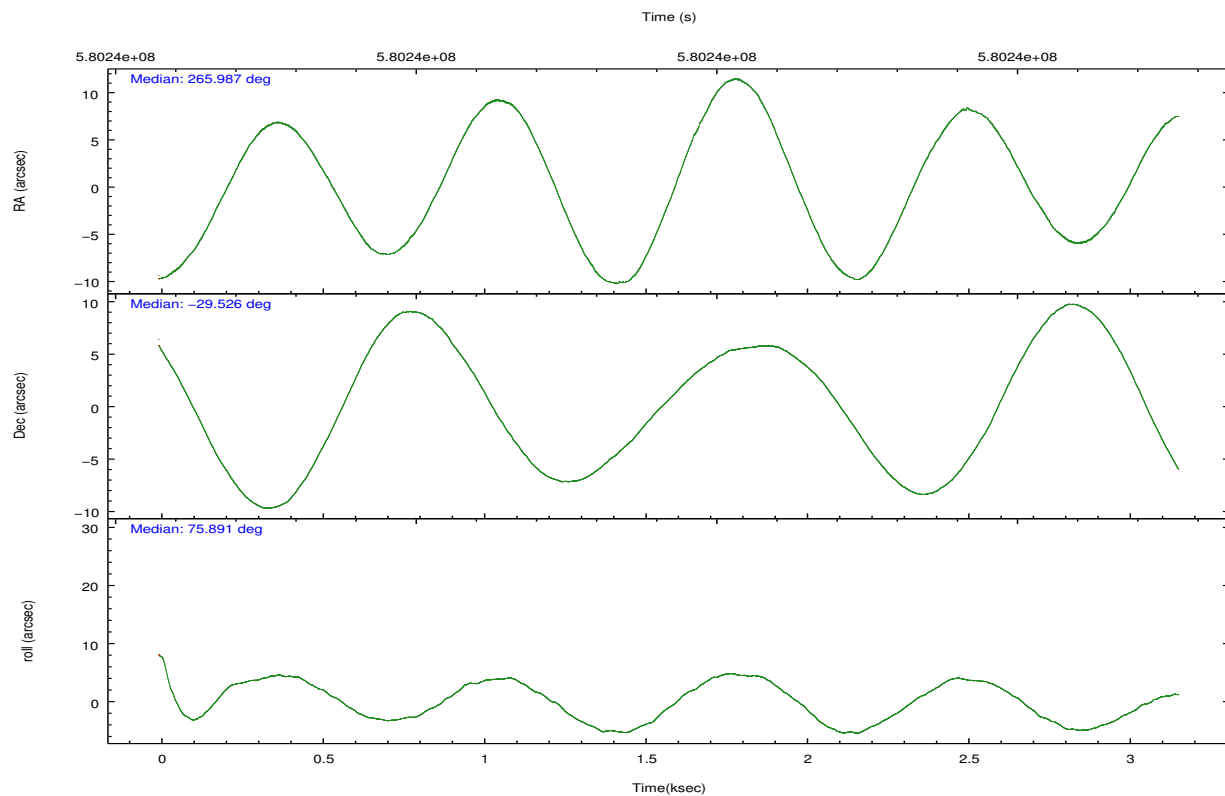
2.2 Compared Parameters

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	265.995862	265.9869752260755
[deg] Pointing Dec	-29.552543	-29.52601462156952
[deg] Pointing Roll	75.696235	75.90060096750835
[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)	580239423.184000	580237996.9983799
Observation start date	2016-05-21T17:35:55	2016-05-21T17:13:16
[s] Observation end time (MET)	580241423.184000	580241556.82358
Observation end date	2016-05-21T18:09:15	2016-05-21T18:12:36
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



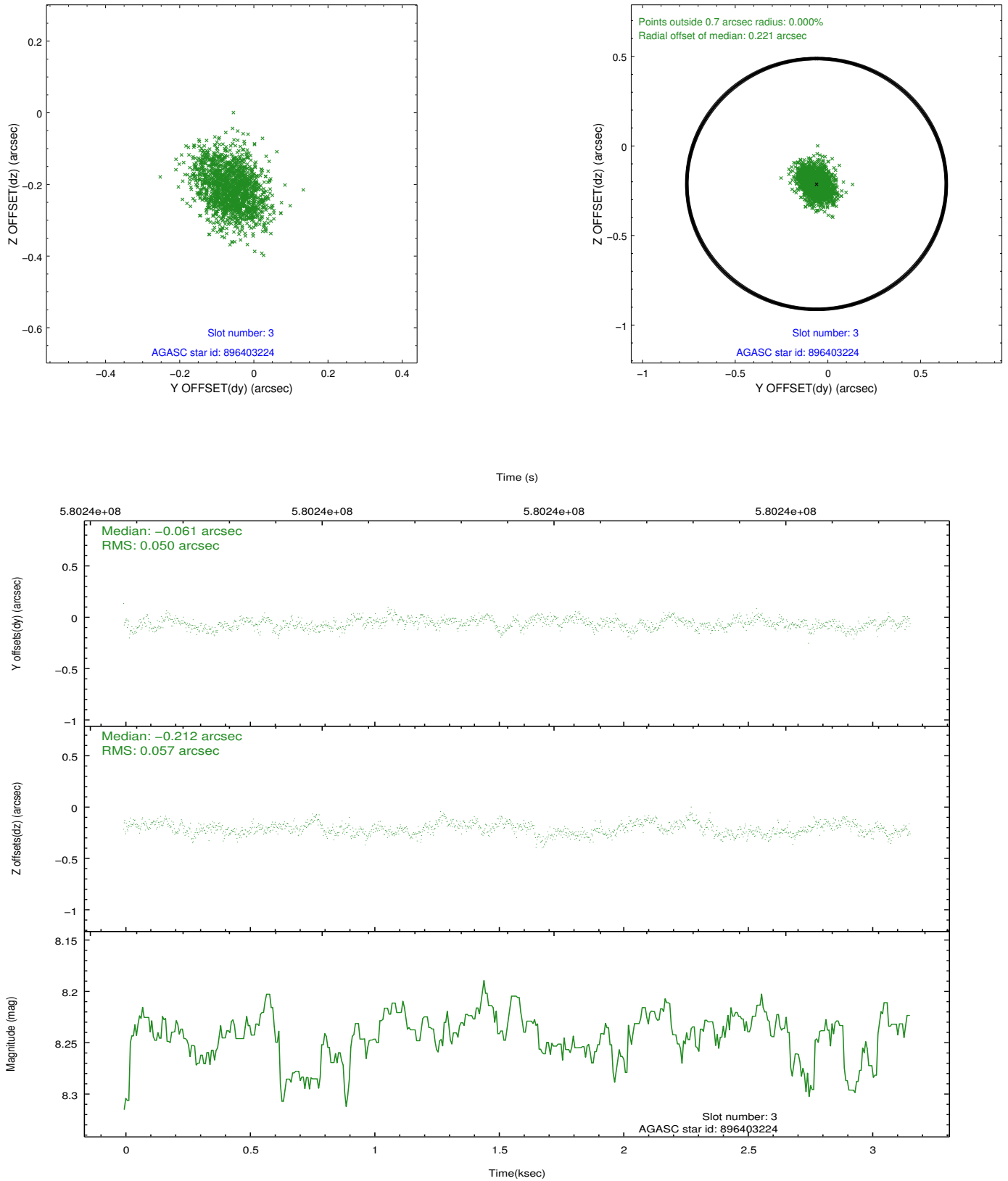


Slot Statistics

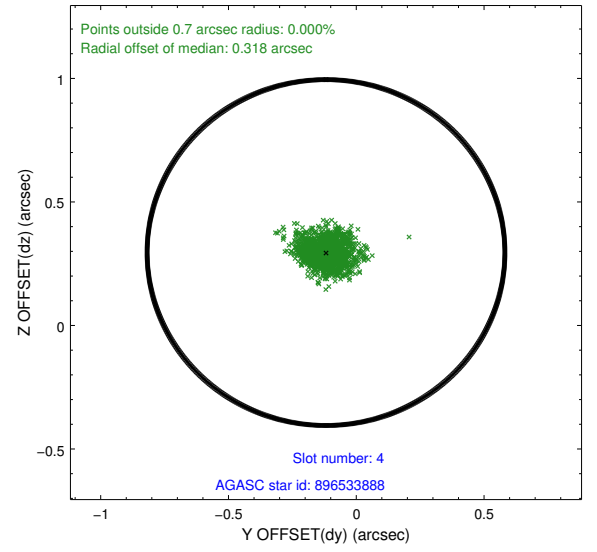
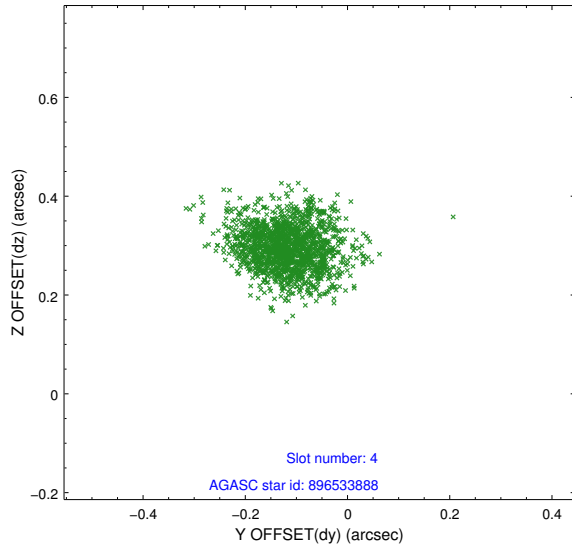
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	771	0.069	-0.024	0.006	0.012	0.000000	0.000000	926.21	-841.46
1	FID		ACIS-I-5	7.26	771	-0.311	0.046	0.006	0.010	0.000000	0.000000	-1821.21	1055.02
2	FID		ACIS-I-6	7.25	771	0.151	0.049	0.007	0.012	0.000000	0.000000	389.58	1701.86
3	GUIDE	used	896403224	8.24	1541	-0.061	-0.212	0.081	0.131	265.612825	-29.438915	97.41	1263.81
4	GUIDE	used	896533888	7.01	1542	-0.118	0.295	0.076	0.123	266.666434	-29.392757	1071.68	-1896.21
5	GUIDE	used	896541360	7.71	1542	-0.001	0.363	0.073	0.122	266.684478	-29.453744	873.04	-2006.12
6	GUIDE	used	896405480	8.23	1542	0.144	-0.786	0.089	0.139	265.220460	-29.599691	-771.45	2305.75
7	GUIDE	used	966924920	8.08	1535	0.030	0.329	0.123	0.185	265.875401	-30.176961	-2271.24	-190.71

2.4 Star Slots

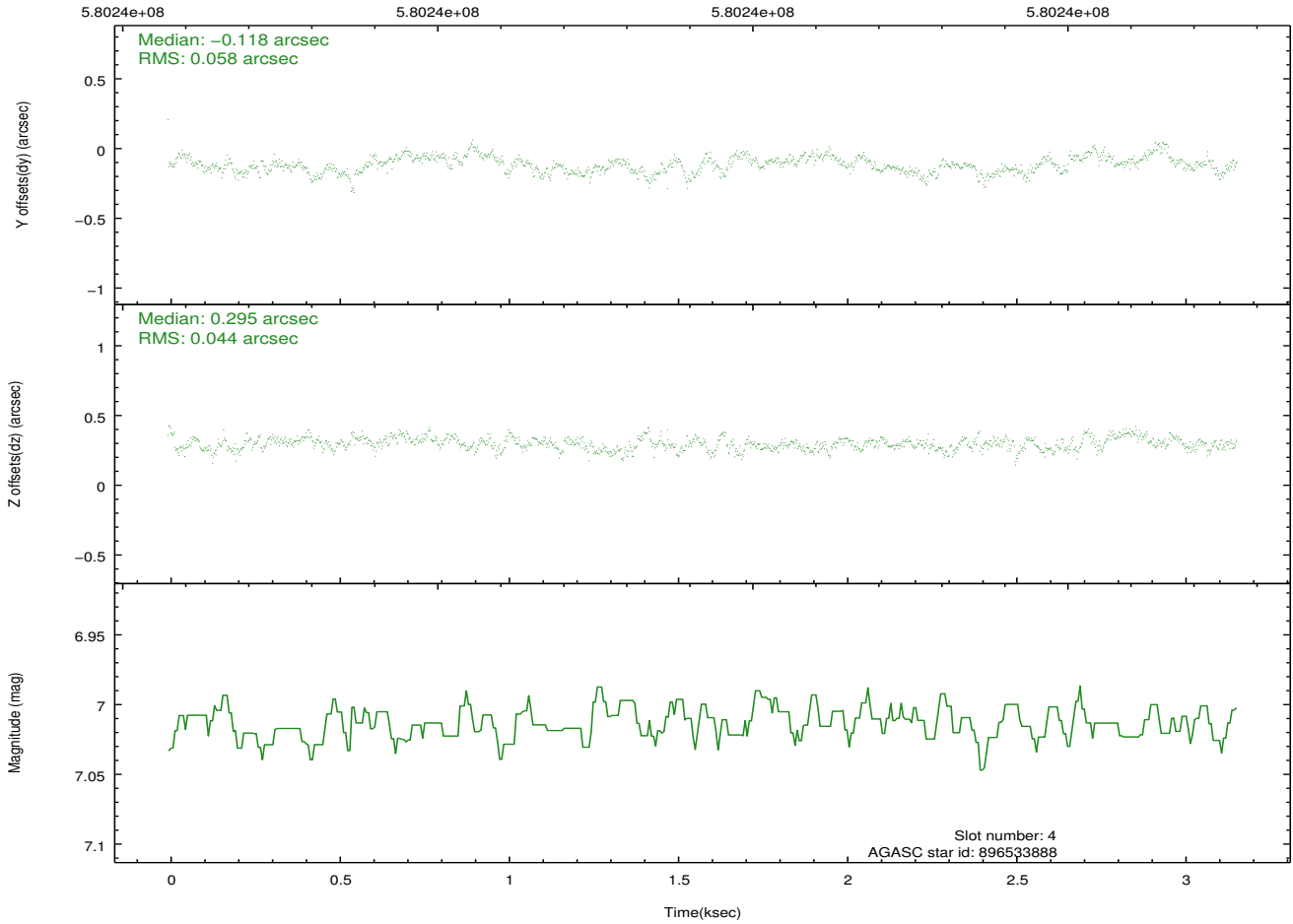
2.4.1 Slot 3



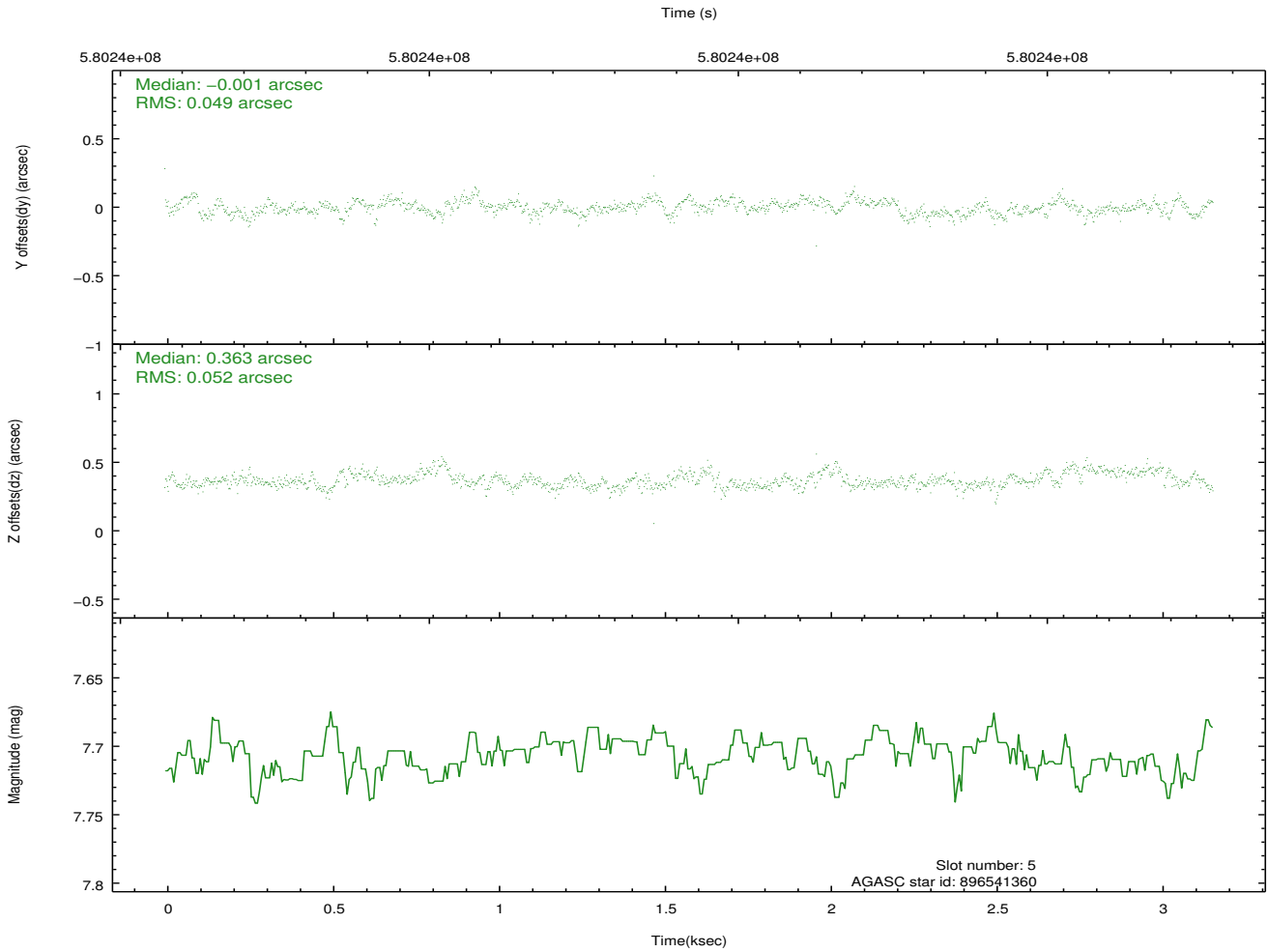
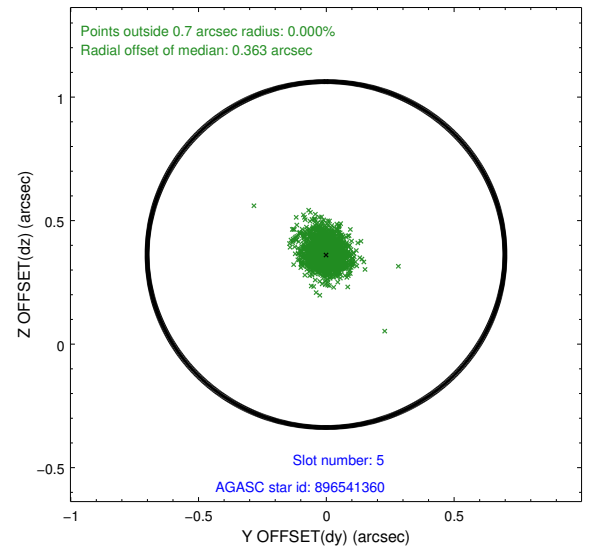
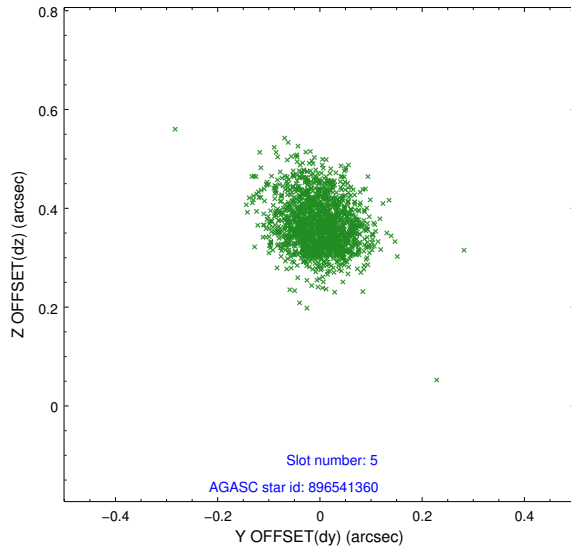
2.4.2 Slot 4



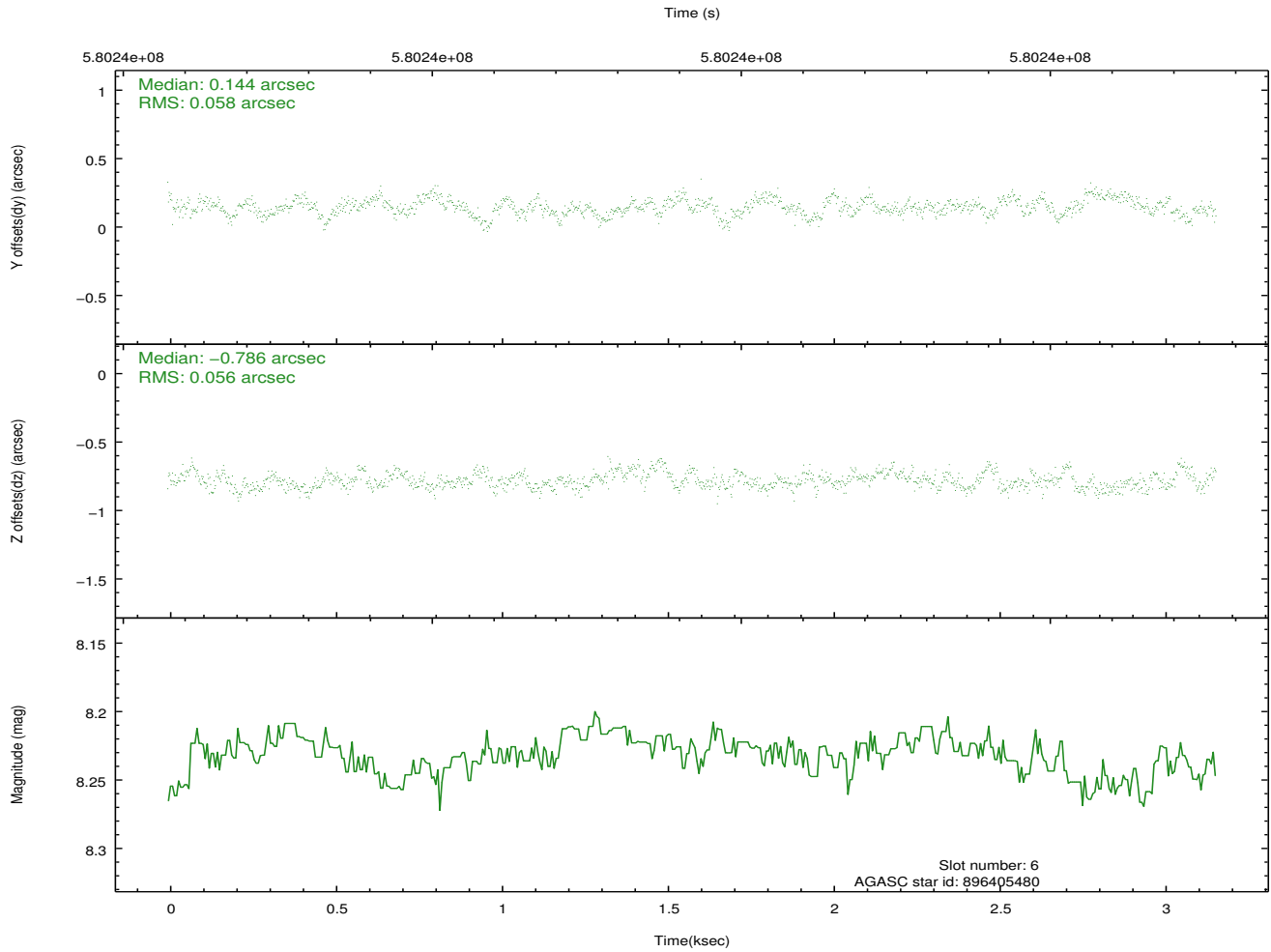
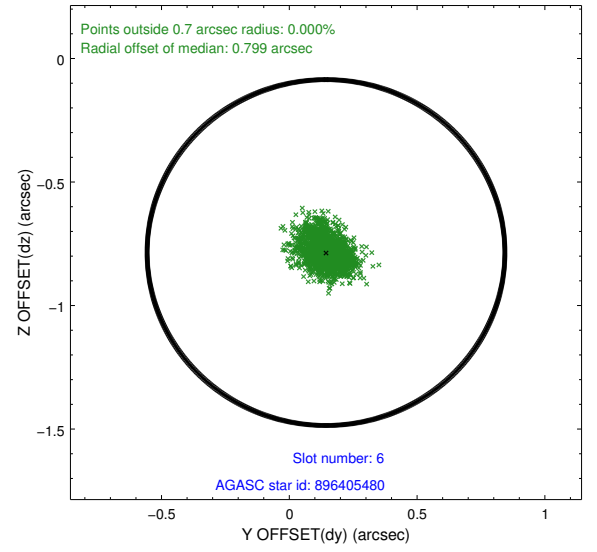
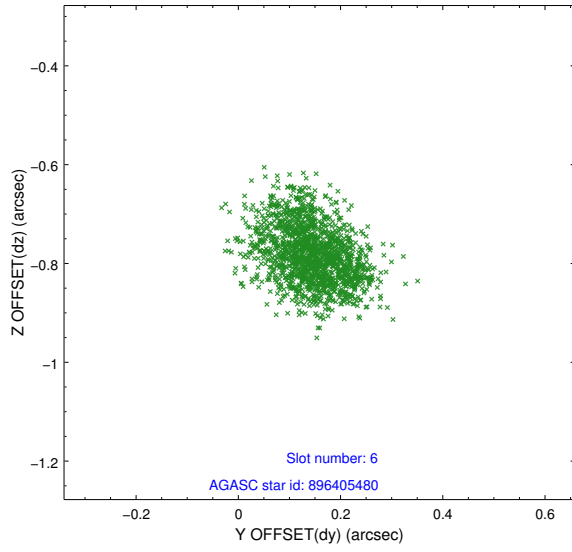
Time (s)



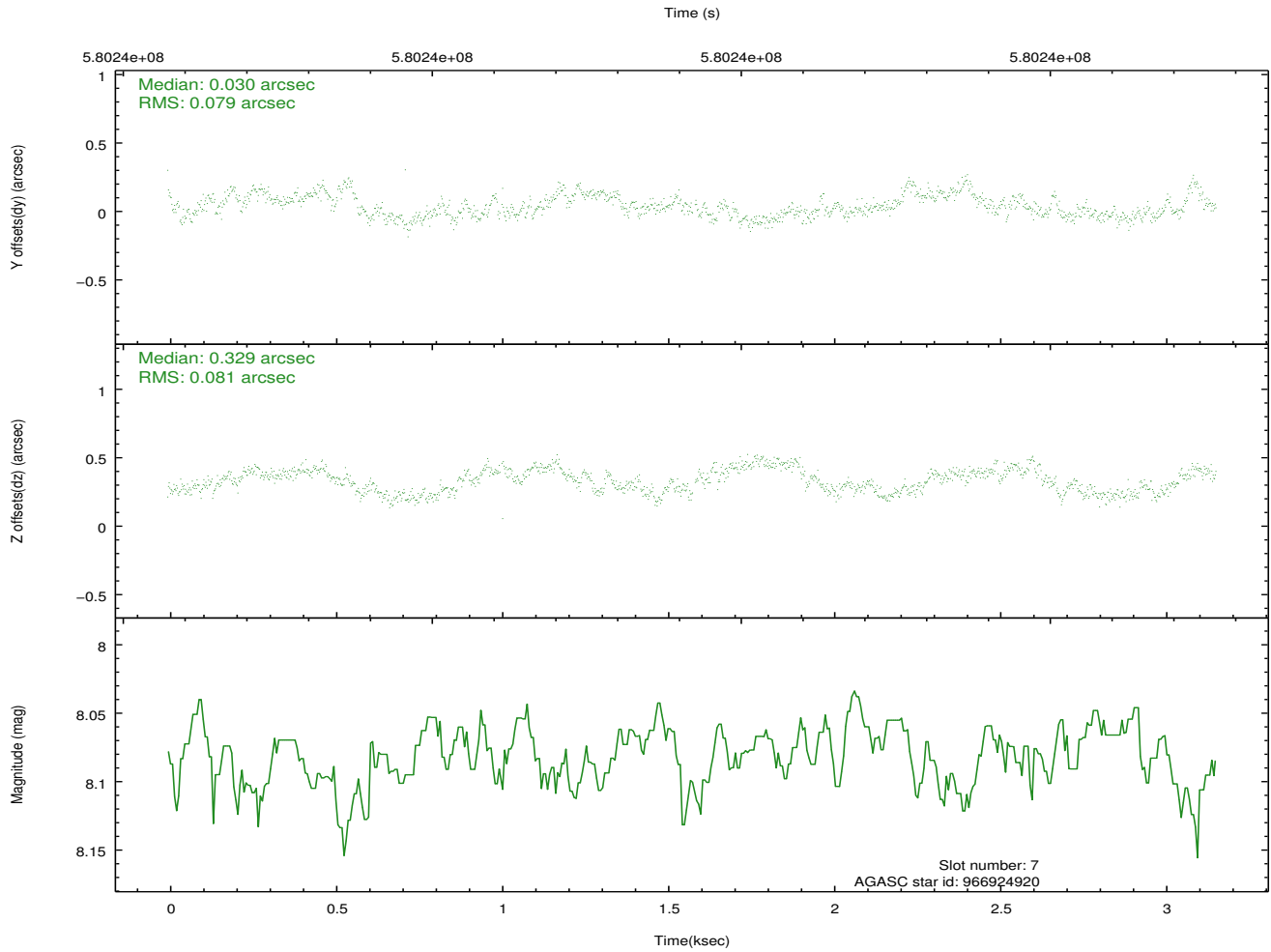
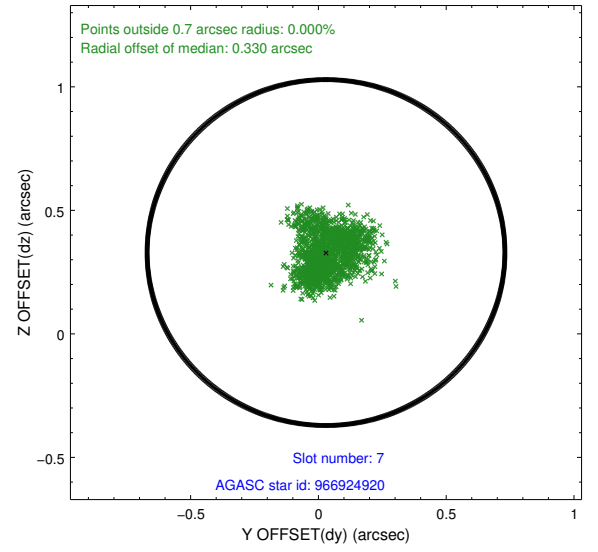
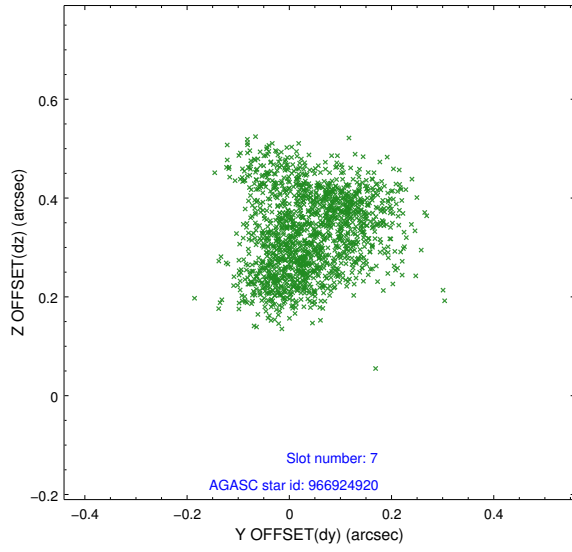
2.4.3 Slot 5



2.4.4 Slot 6

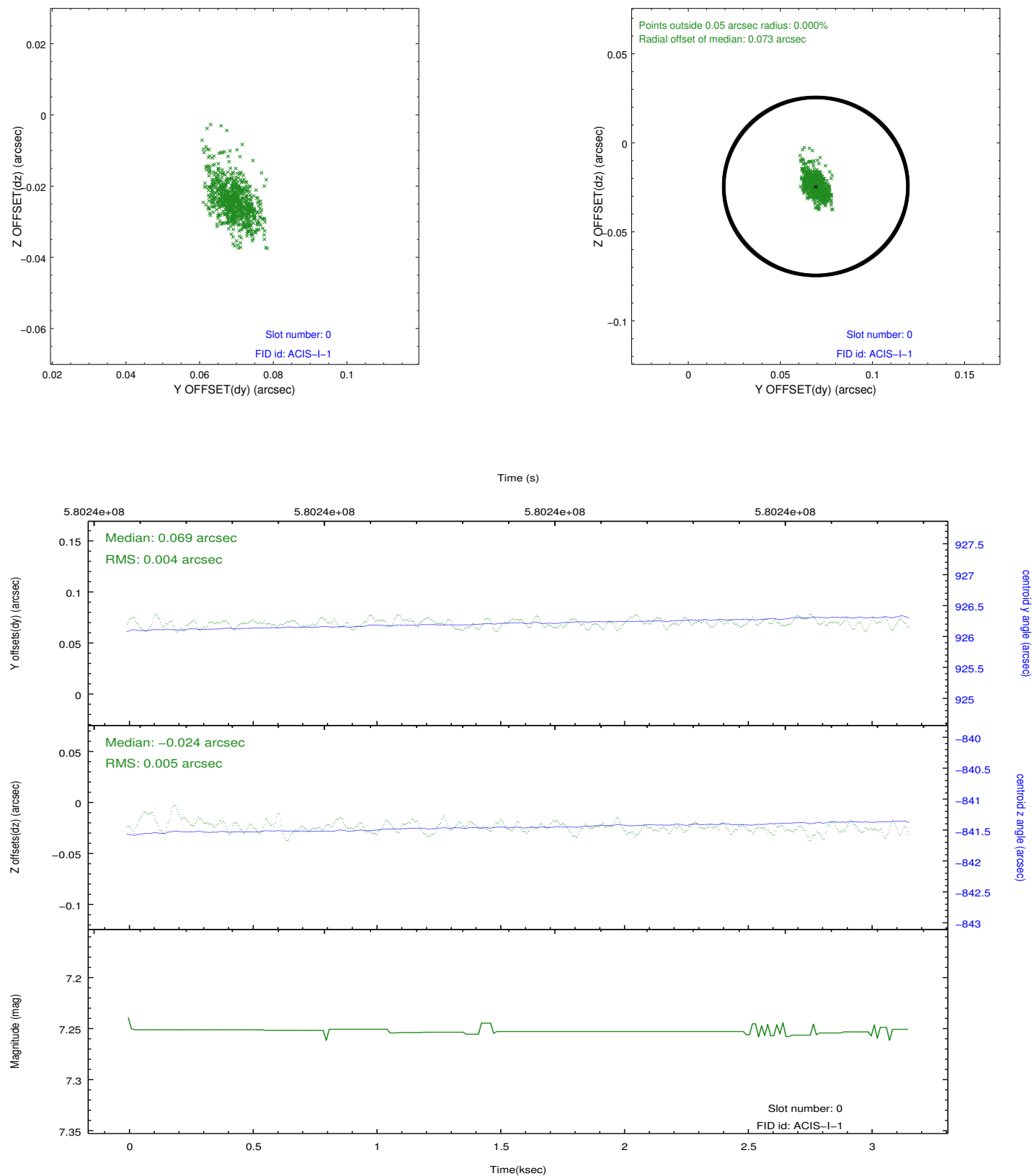


2.4.5 Slot 7

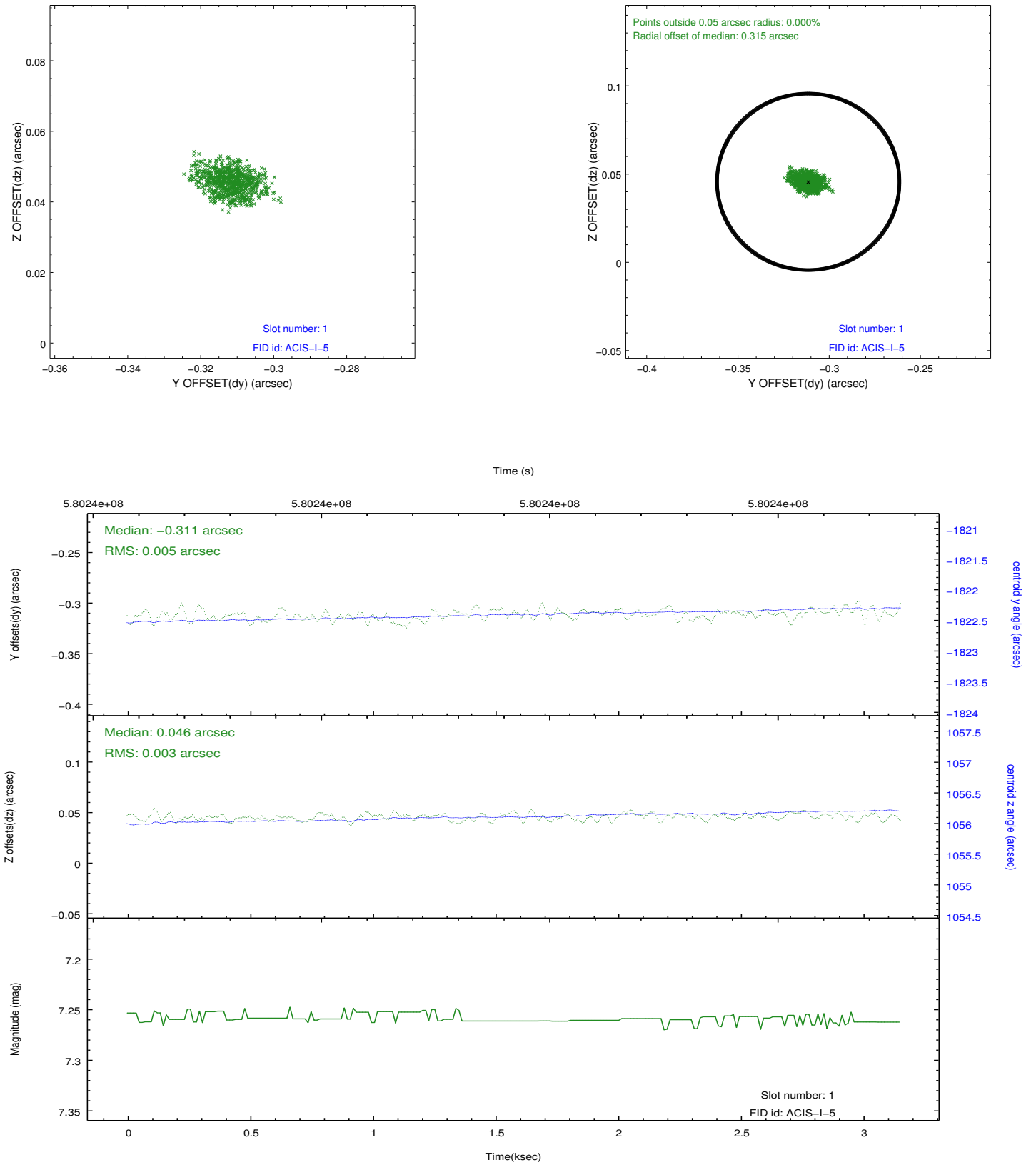


2.5 FID Slots

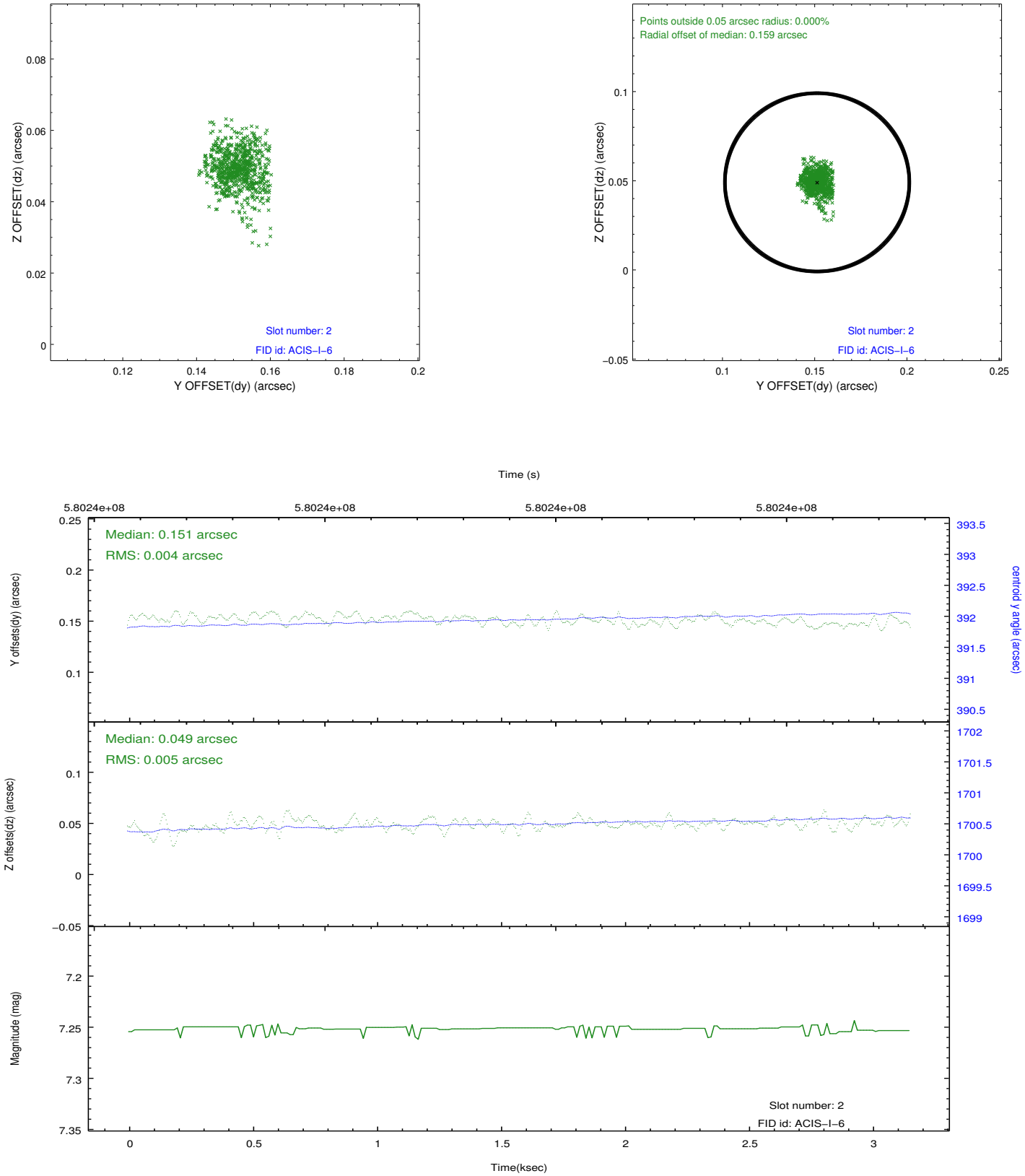
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0761647006273

A.2 Comments