

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8649 - L2 Version 2
Chandra X-Ray Center

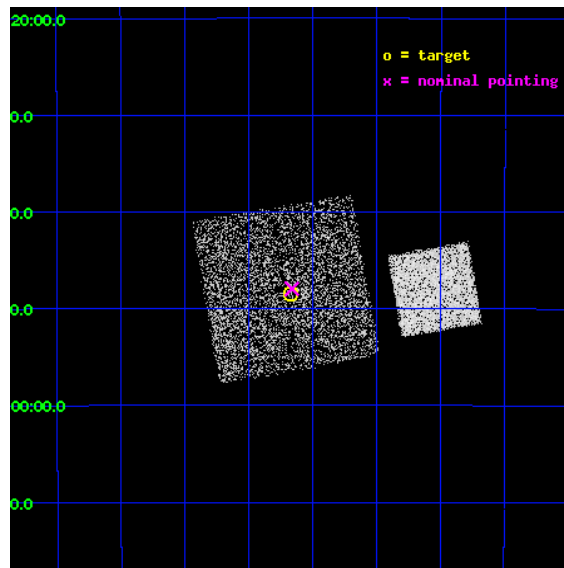
L2 Processing Date : May 14 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

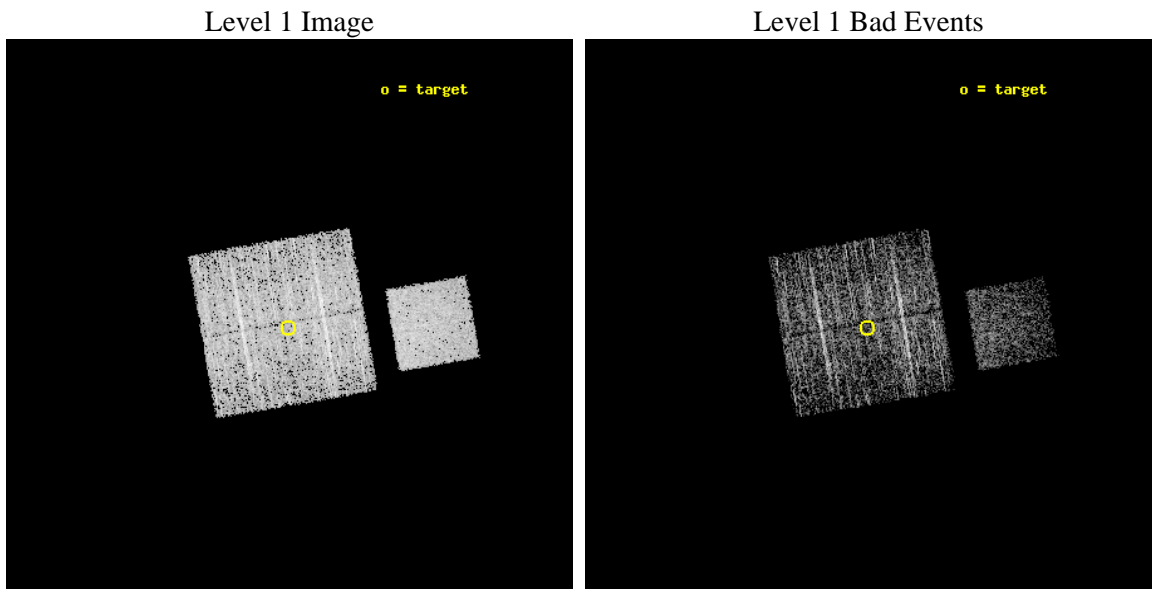
seq_num	400700	Sequence number
obs_id	8649	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416947	Observer's specified target RA [deg]
dec_targ	-26.807133	Observer's specified target Dec [deg]
ra_nom	266.41574249427	Nominal RA [deg]
dec_nom	-26.799300943883	Nominal Dec [deg]
roll_nom	80.208130379129	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.3590164185	Sum of GTIs [s]
livetime	2153.8448892396	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2182.3590164185	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	16061	Number of level 2 events



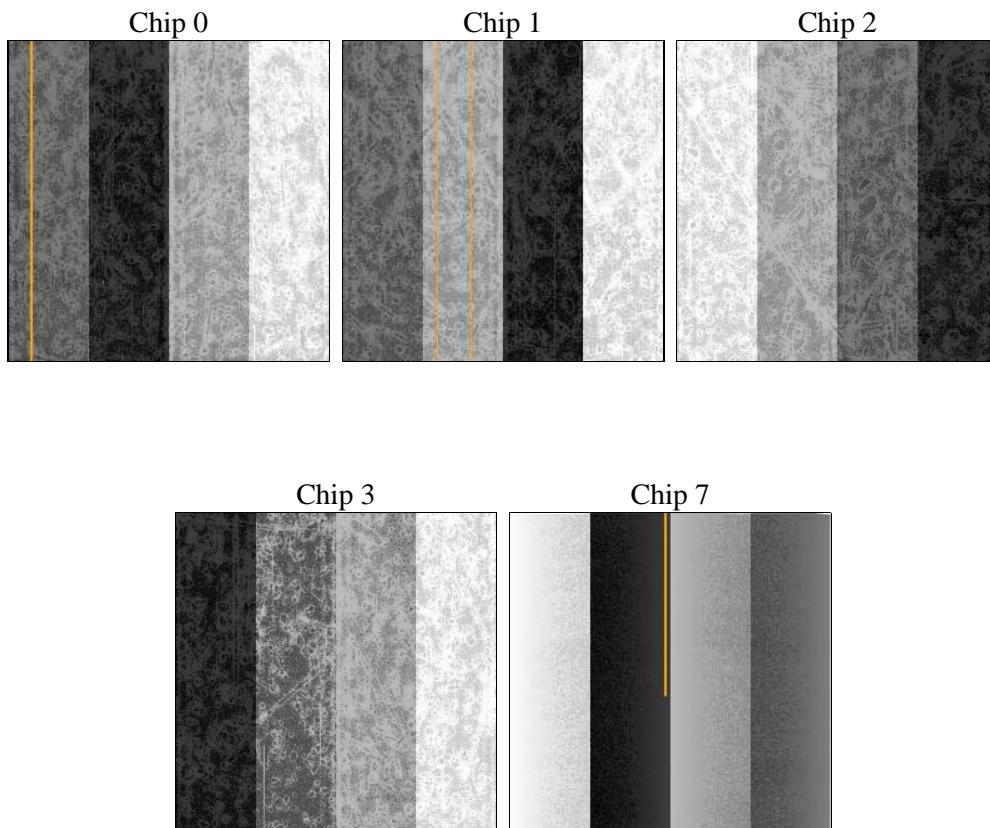
2 OBI

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	8.4.4	Processing system revision	ontime	2182.3590164185	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-05-14T23:52:53	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2182.3590164185	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	103569	Number of level 1 events

2.1.4 Events

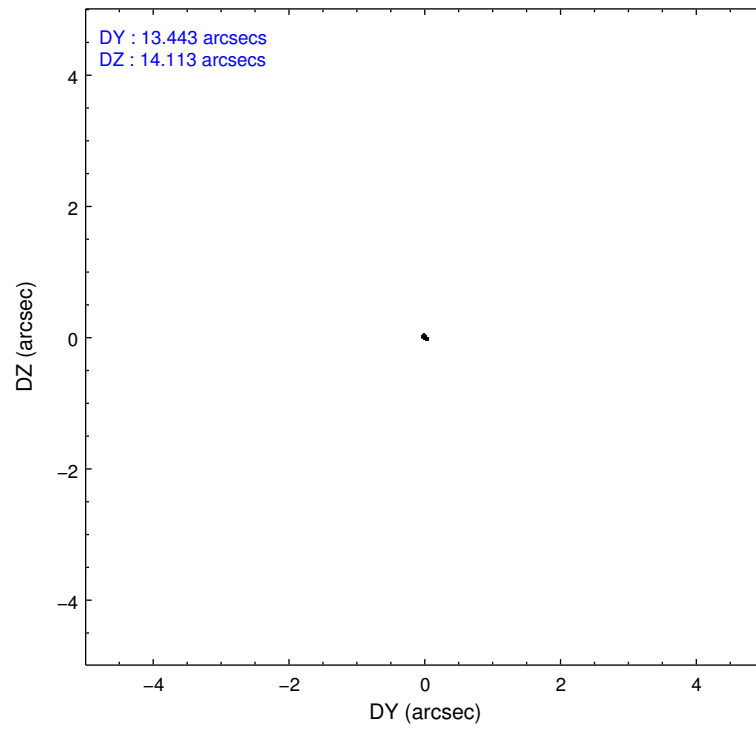
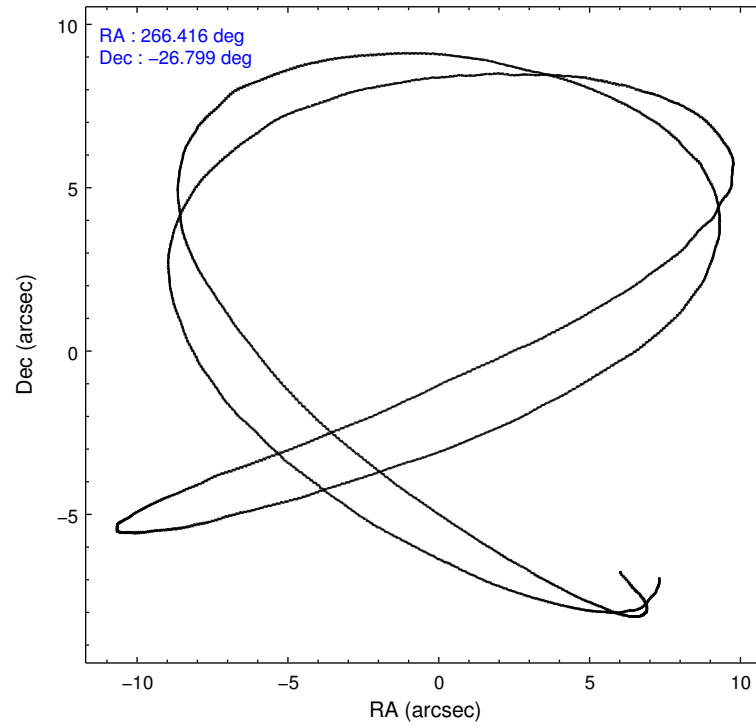
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	20854	18505	21058	20526	22626
rejected events	18683	16195	18999	18513	13462
rejected %	89%	87%	90%	90%	59%

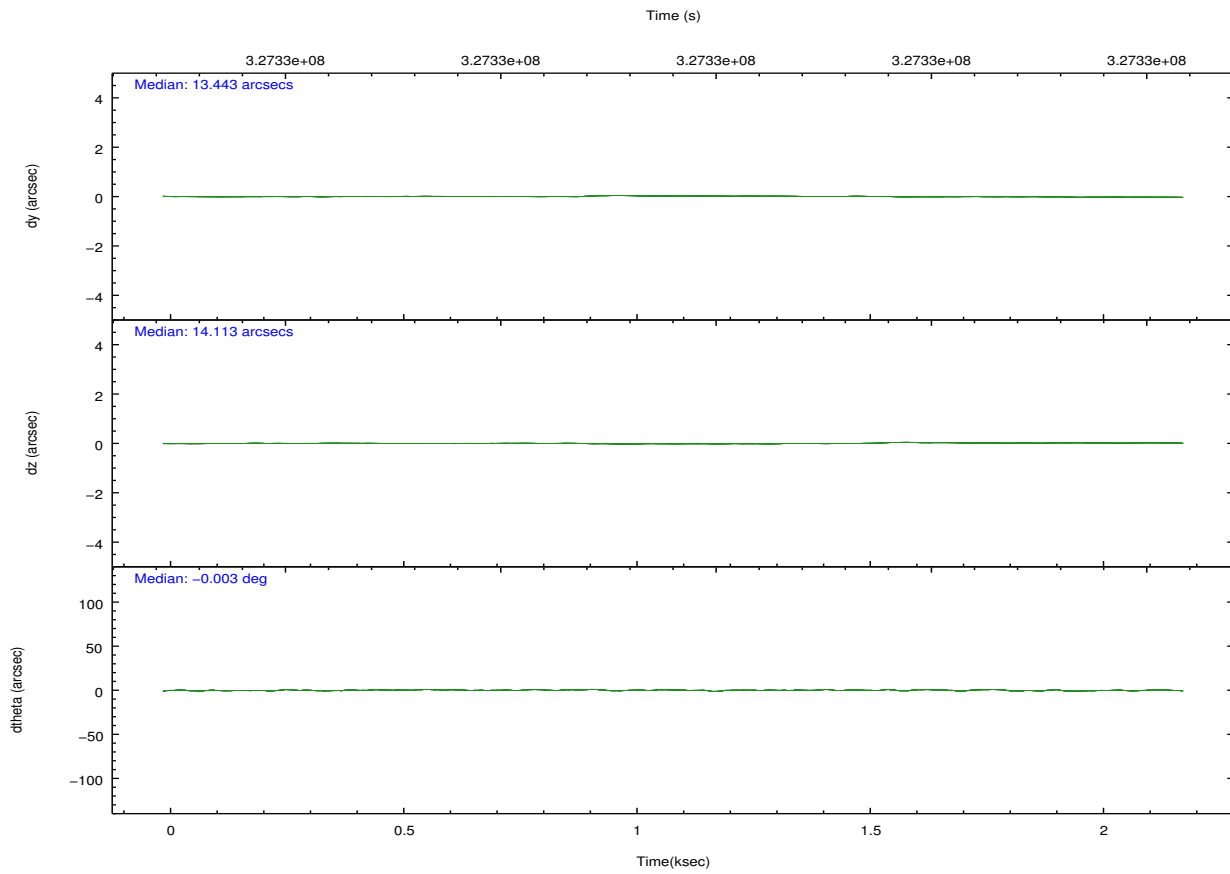
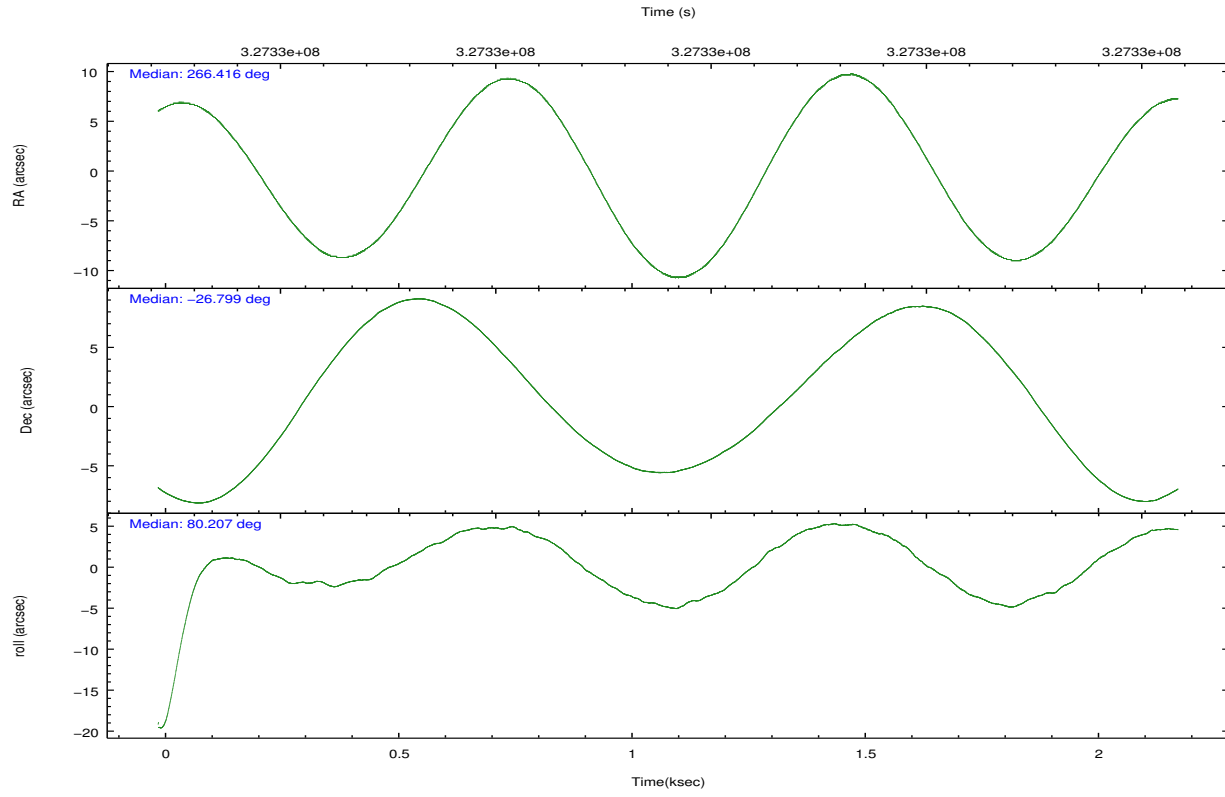
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1012	1159	1008	977	1052
	4%	6%	4%	4%	4%
grade 1 events	12	14	16	19	36
	0%	0%	0%	0%	0%
grade 2 events	579	508	493	475	2200
	2%	2%	2%	2%	9%
grade 3 events	222	278	255	248	964
	1%	1%	1%	1%	4%
grade 4 events	226	261	230	237	957
	1%	1%	1%	1%	4%
grade 5 events	666	765	695	776	2383
	3%	4%	3%	3%	10%
grade 6 events	443	455	382	395	5322
	2%	2%	1%	1%	23%
grade 7 events	17694	15065	17979	17399	9712
	84%	81%	85%	84%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	266.426524	266.4157424942661	CCD I2 on	Y	Y
[deg] Pointing Dec	-26.824892	-26.79930094388275	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004318	80.20813037912903	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327329483.184000	327329106.97617	CCD S5 on	N	N
Observation start date	2008-05-16T12:50:18	2008-05-16T12:45:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327331483.184000	327331617.20129	On-chip summing requested	N	N
Observation end date	2008-05-16T13:23:38	2008-05-16T13:26:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



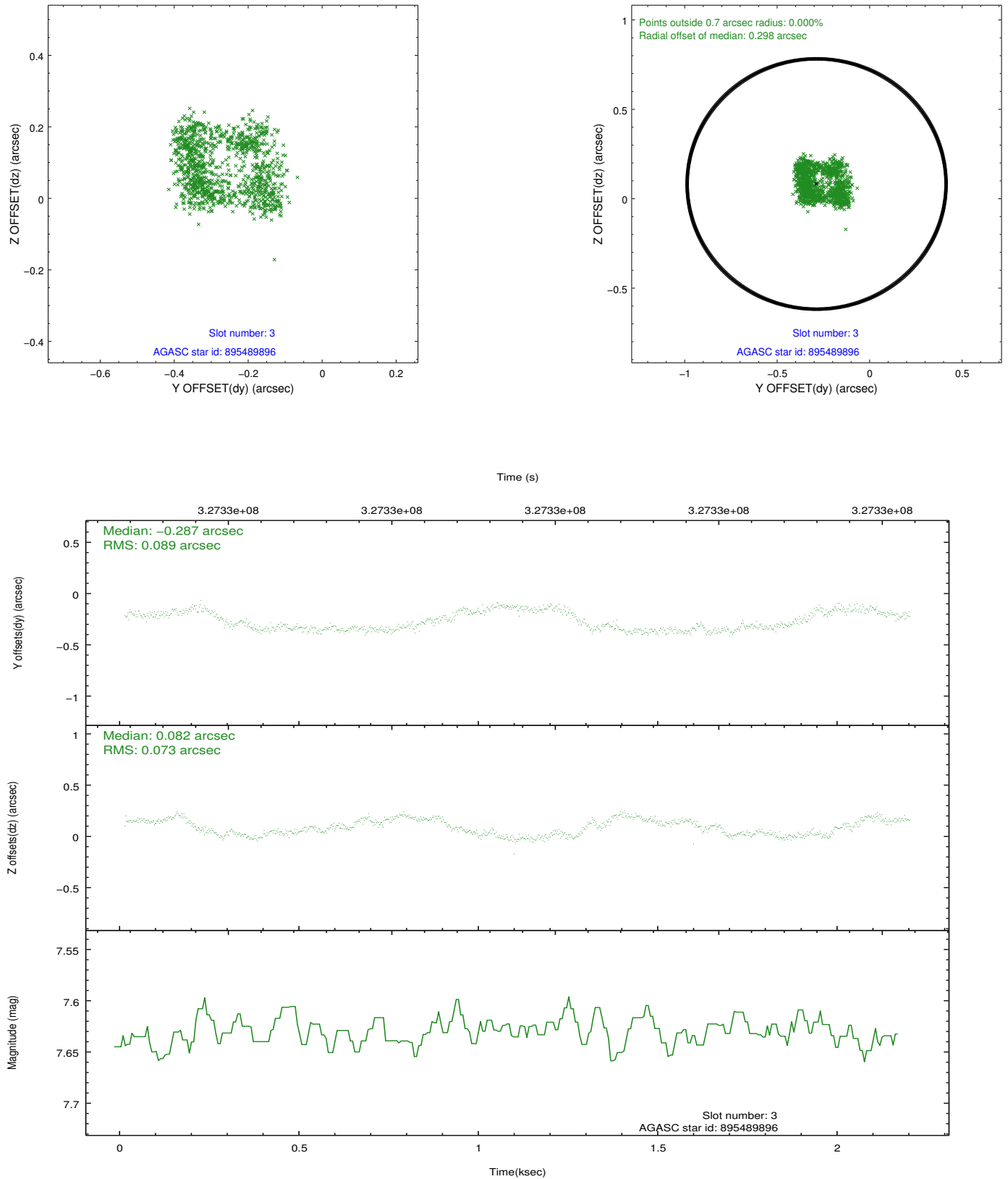


Slot Statistics

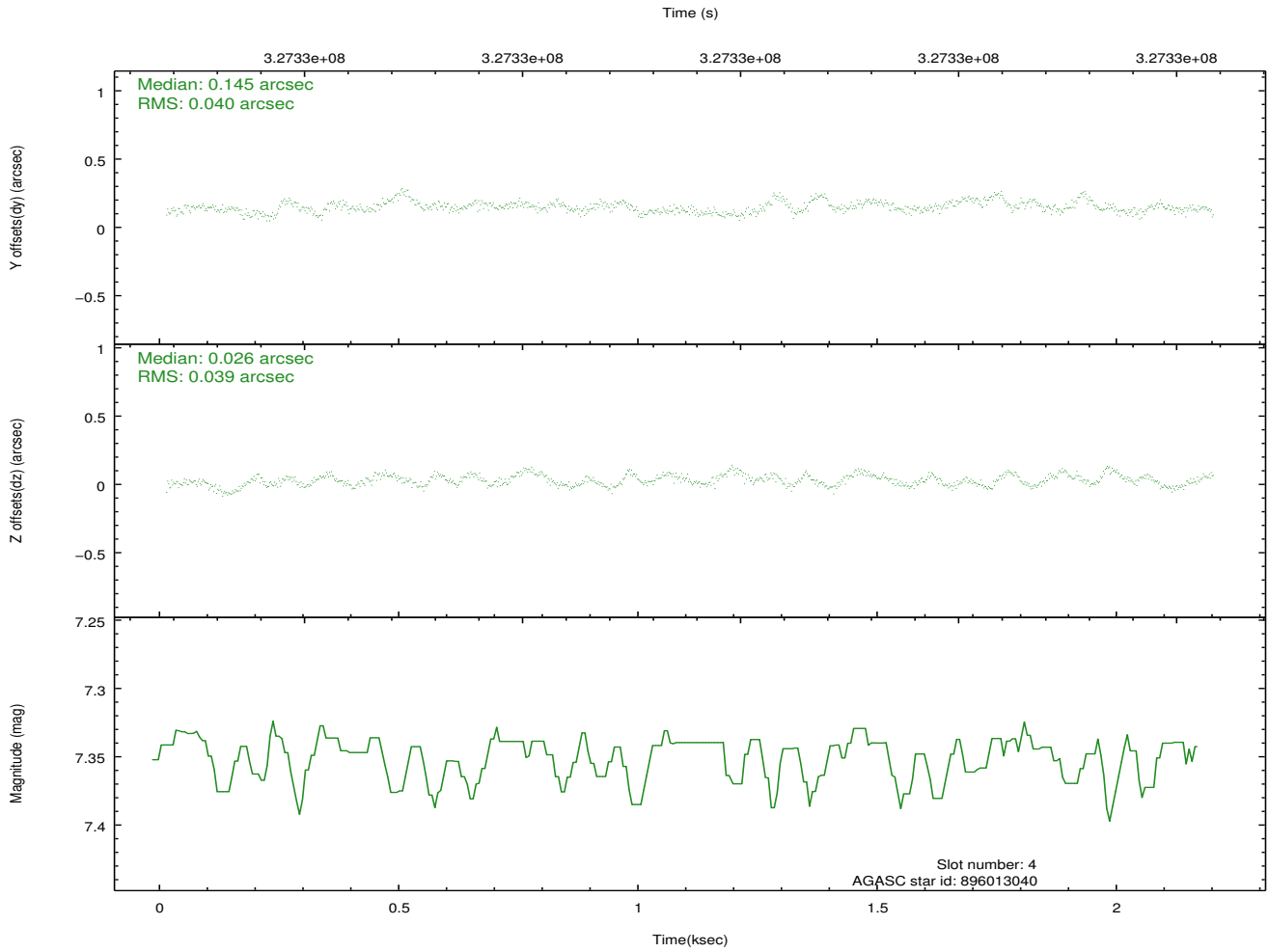
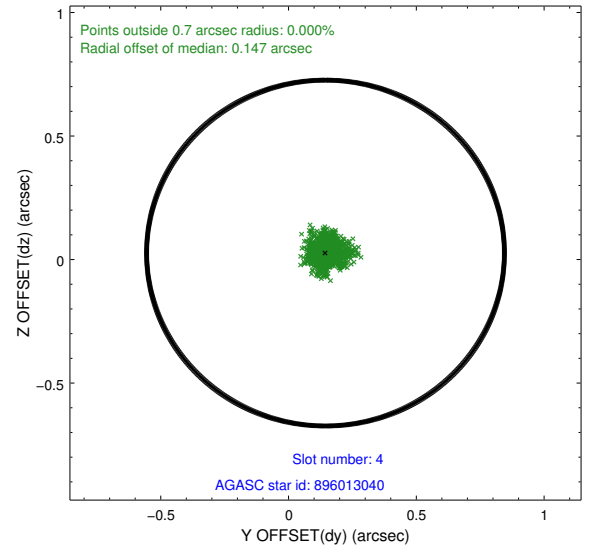
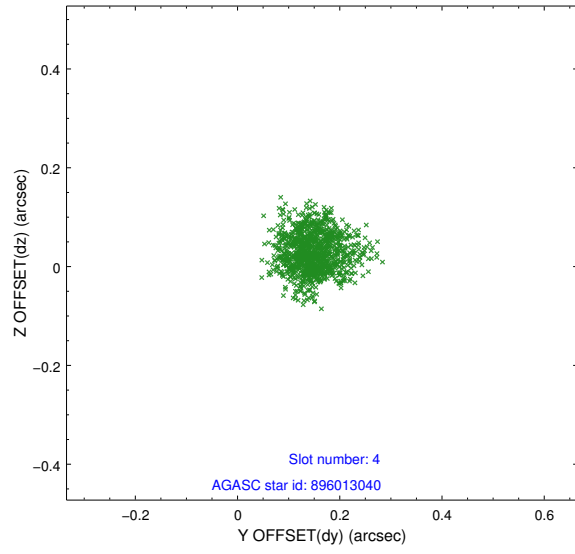
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	534	0.008	0.042	0.006	0.009	0.000000	0.000000	926.08	-837.64
1	FID	ACIS-I-5	7.04	534	-0.183	0.028	0.006	0.011	0.000000	0.000000	-1820.60	1058.31
2	FID	ACIS-I-6	7.06	534	0.084	0.001	0.007	0.010	0.000000	0.000000	388.43	1706.19
3	GUIDE	895489896	7.63	1068	-0.287	0.082	0.125	0.181	266.605795	-26.200300	2315.06	-179.78
4	GUIDE	896013040	7.35	1067	0.145	0.026	0.059	0.095	266.506589	-26.972299	-474.97	-345.10
5	GUIDE	896014528	7.67	1068	0.128	0.058	0.056	0.088	266.628858	-27.438607	-2063.64	-1020.44
6	GUIDE	896014680	8.78	1068	0.221	0.142	0.068	0.106	266.460330	-27.216583	-1370.81	-352.04
7	GUIDE	896015880	8.50	1066	-0.237	-0.308	0.070	0.118	265.986633	-26.306686	1587.69	1721.04

2.4 Star Slots

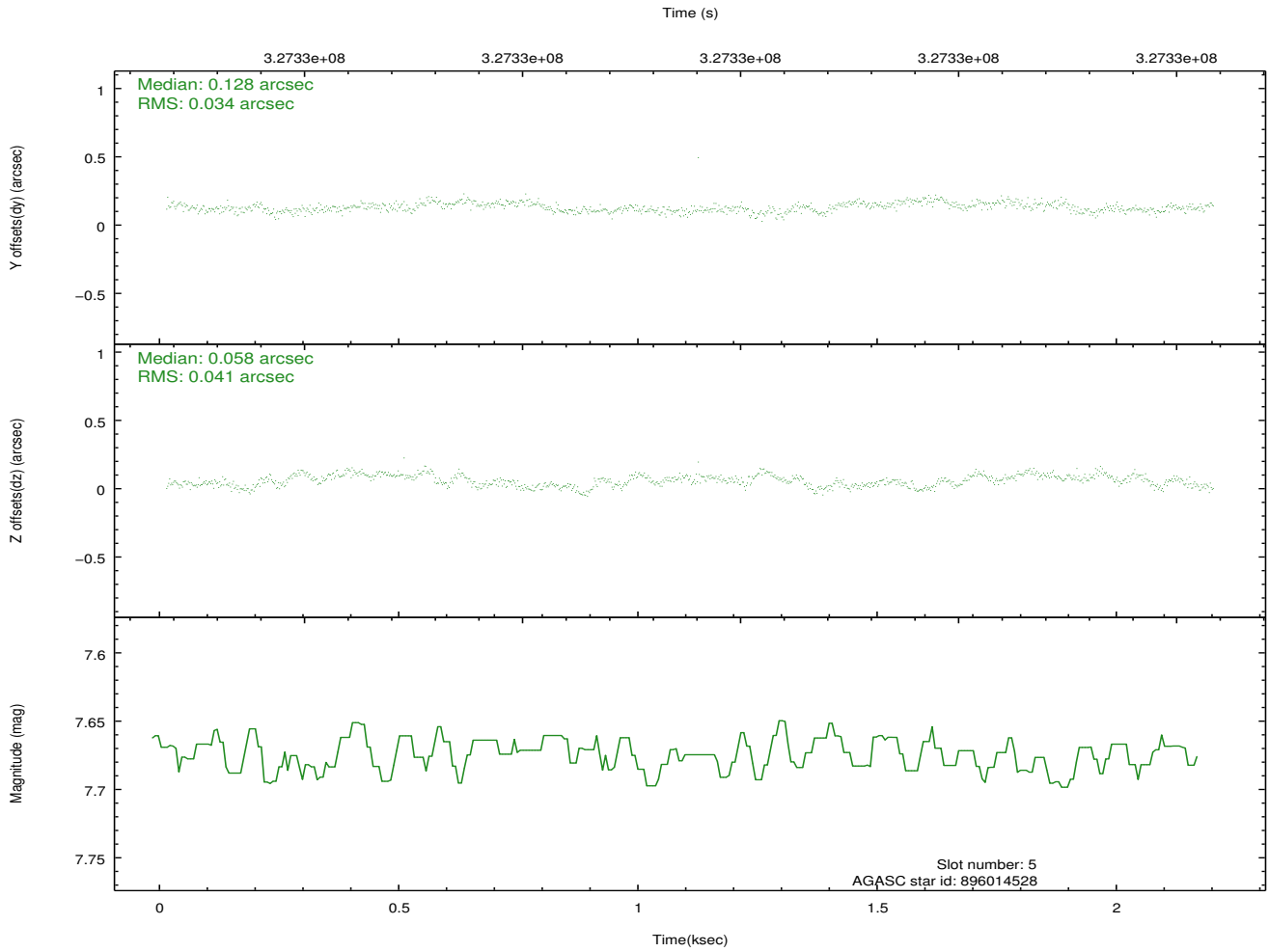
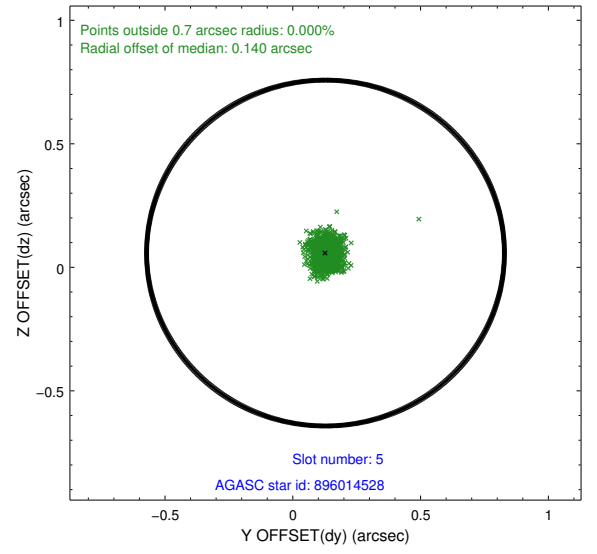
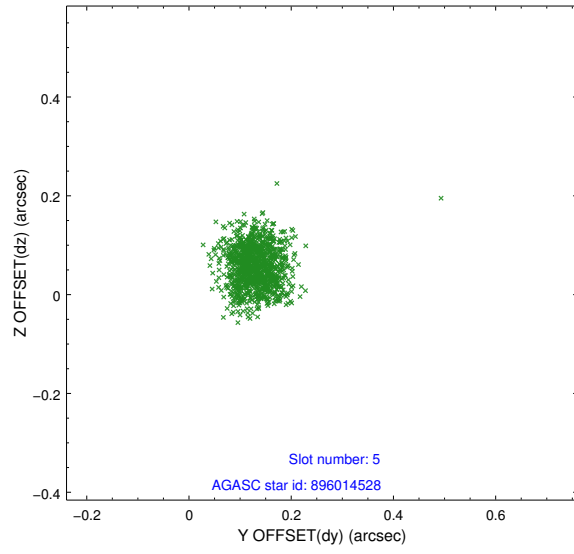
2.4.1 Slot 3



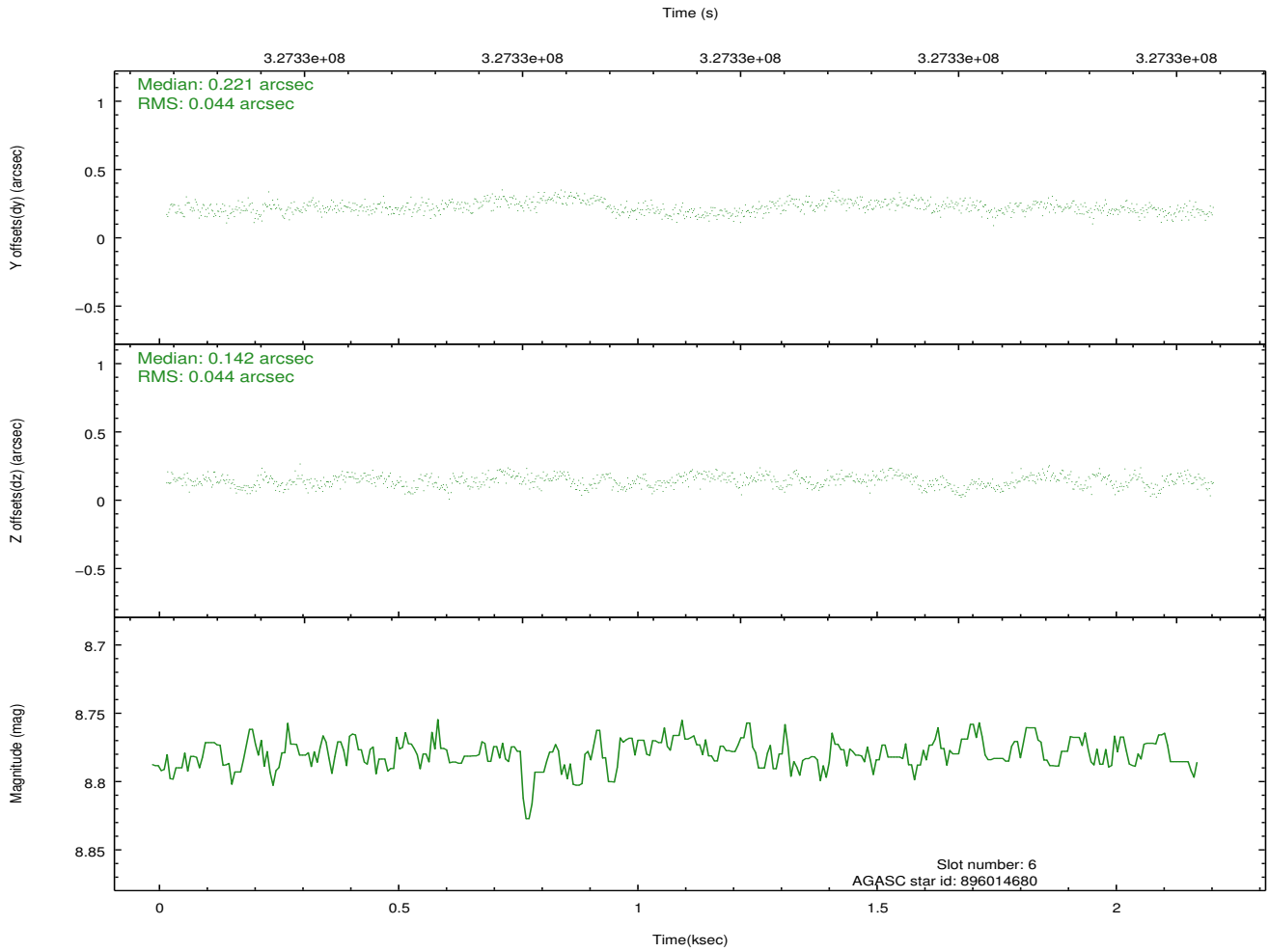
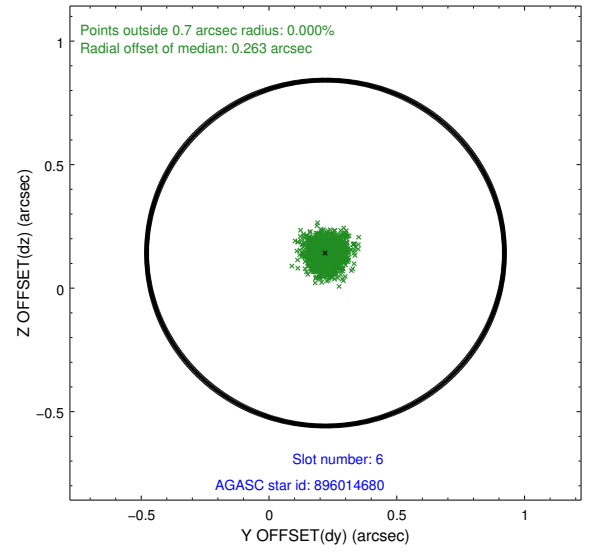
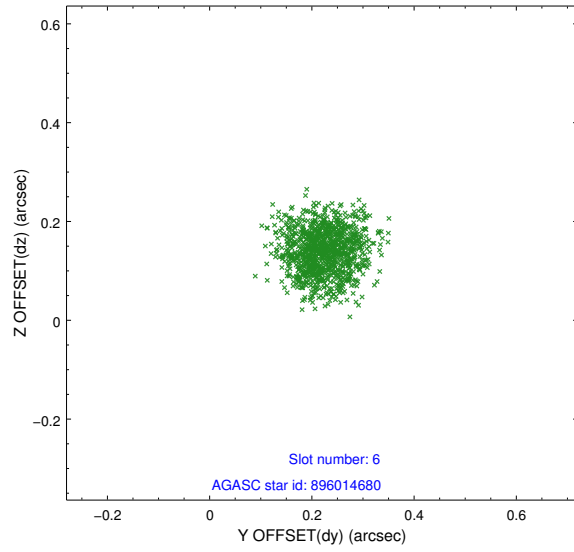
2.4.2 Slot 4



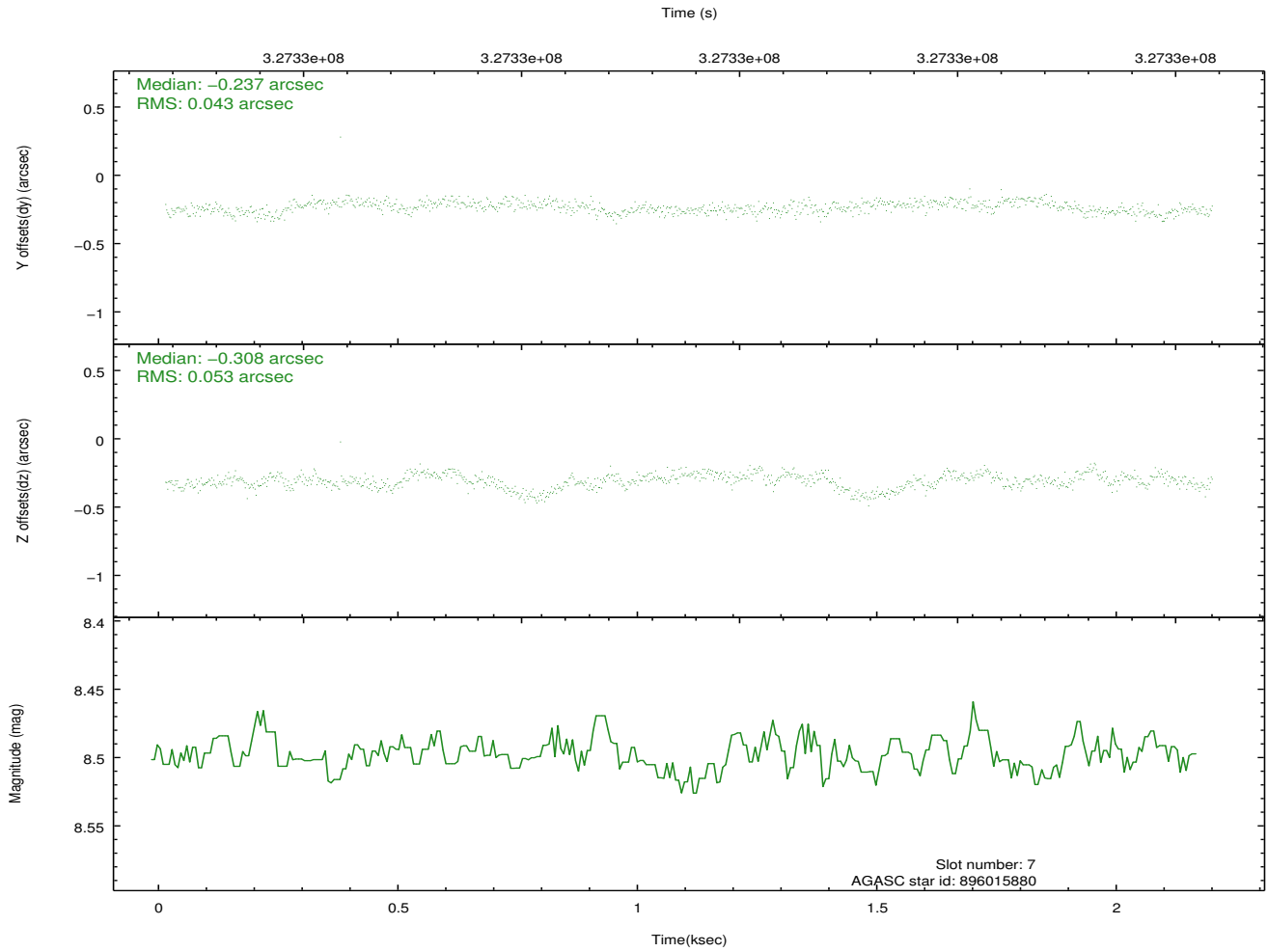
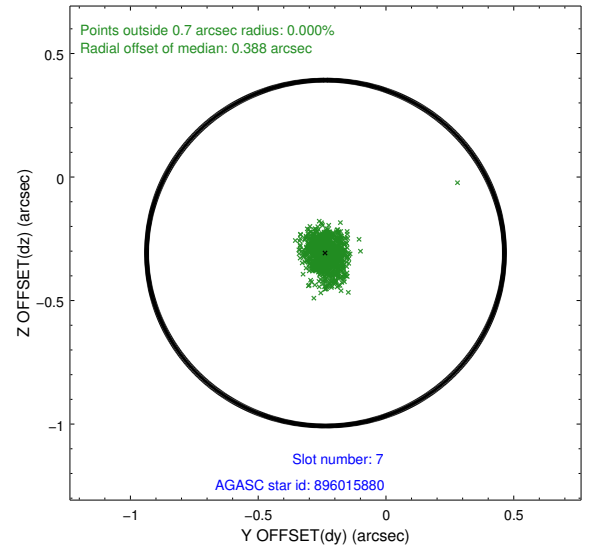
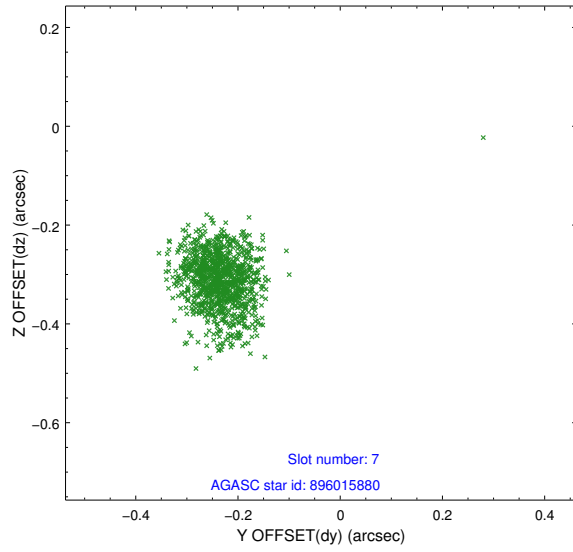
2.4.3 Slot 5



2.4.4 Slot 6

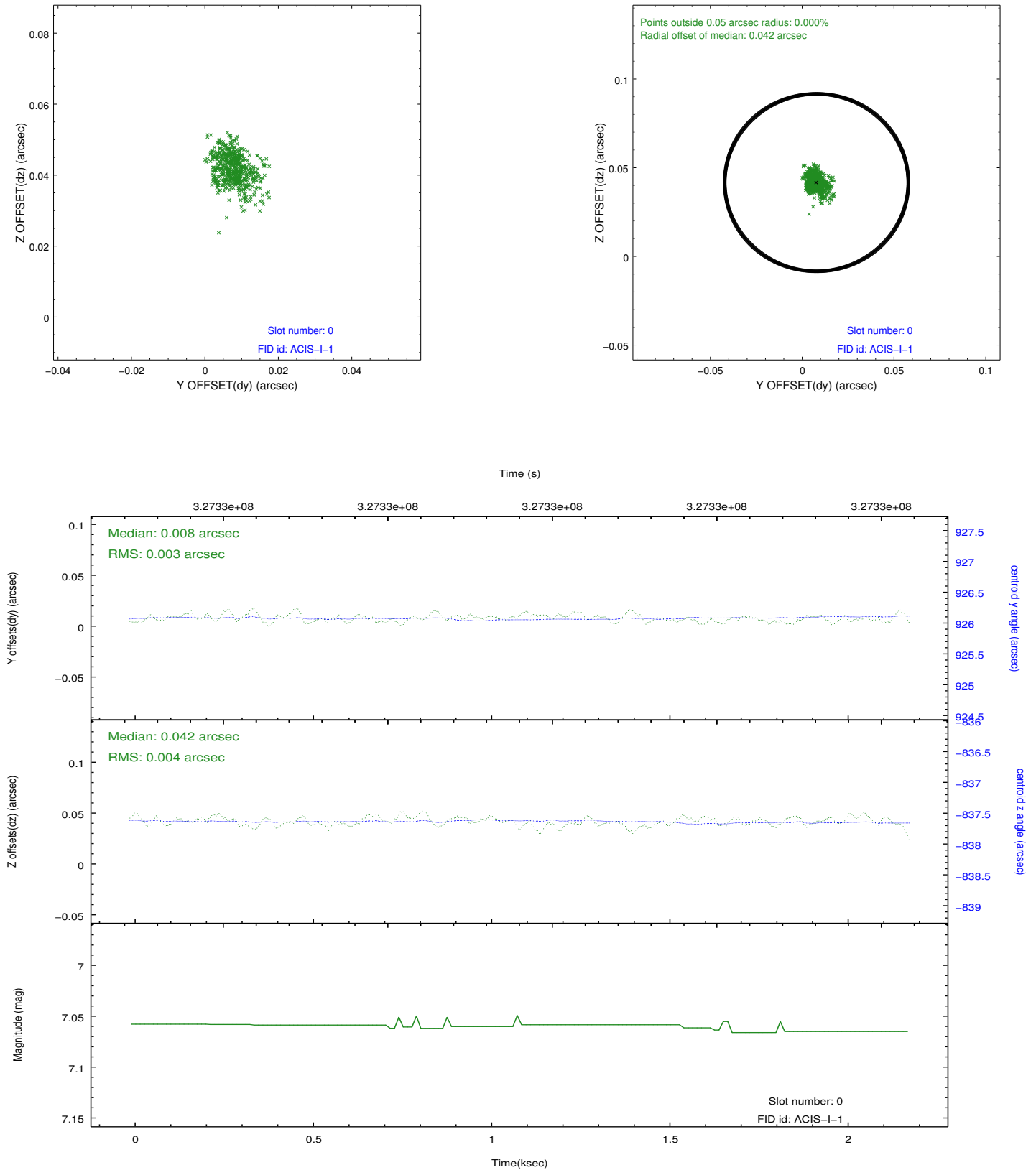


2.4.5 Slot 7

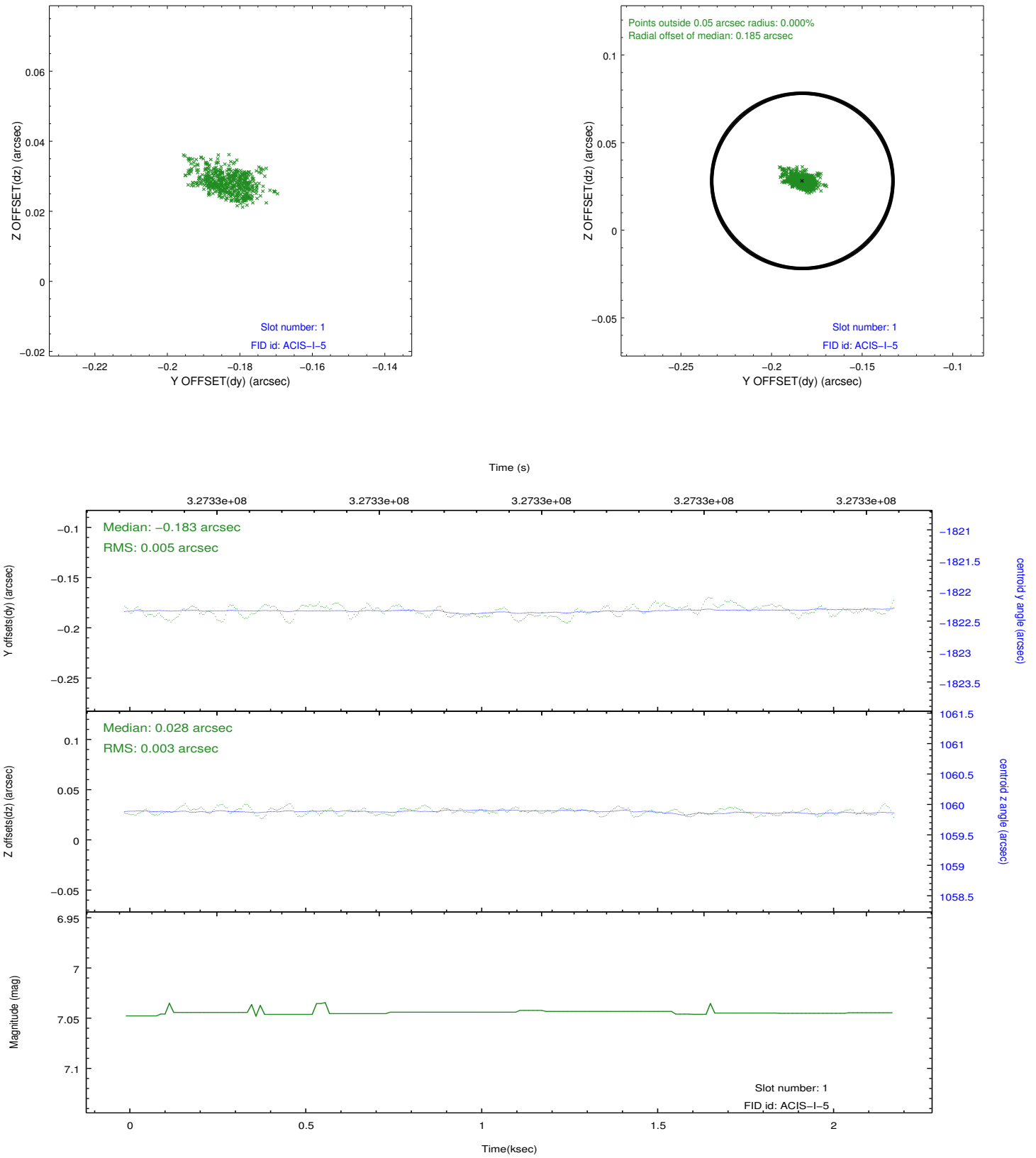


2.5 FID Slots

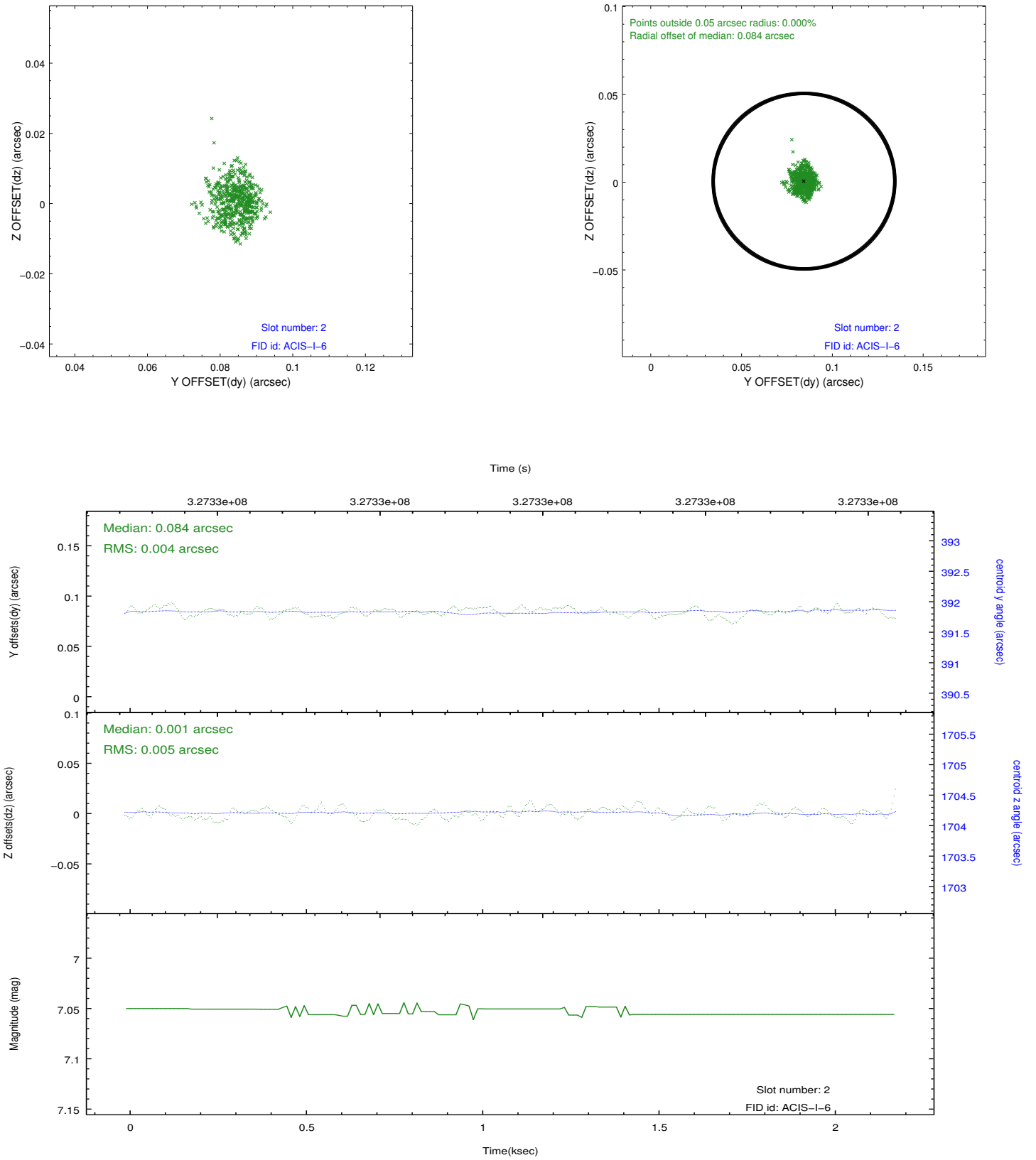
2.5.1 Slot 0



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)	2012.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18235901

A.2 Comments