

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13666 - L2 Version 1
Chandra X-Ray Center

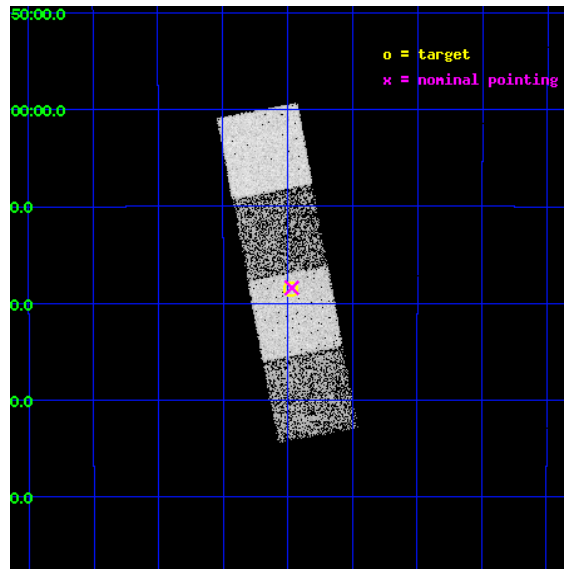
L2 Processing Date : Jan 12 2012

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

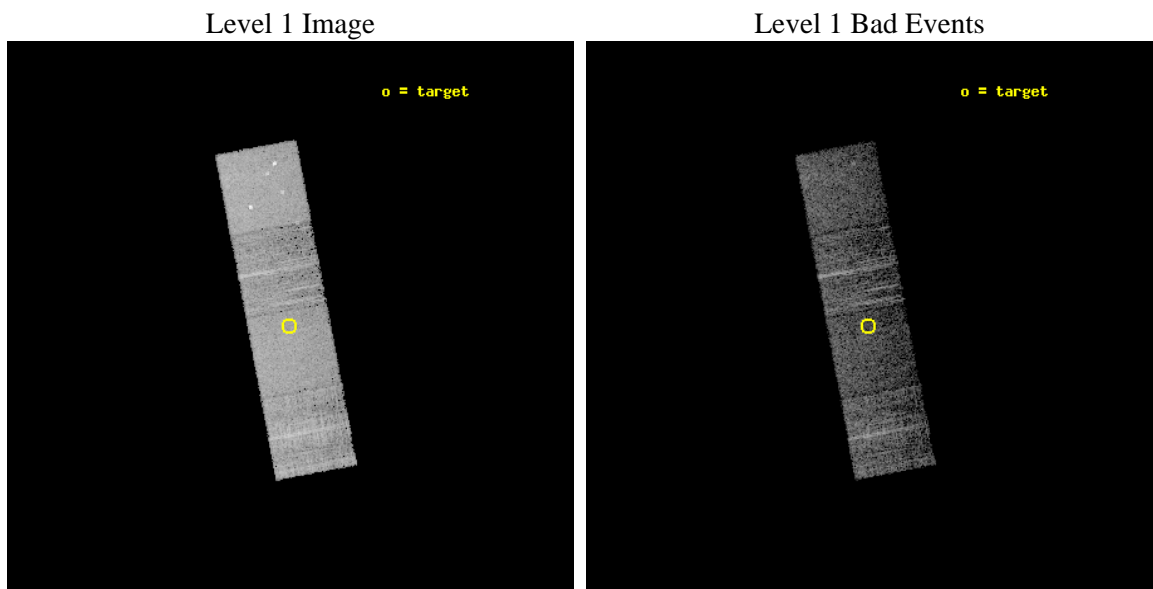
seq_num	200816	Sequence number
obs_id	13666	Observation id
title	Testing Star-Planet Interaction in Solar Analogs	Proposal title
observer	Brendan Miller	Principal investigator
object	HD 134987	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.369583	Observer's specified target RA [deg]
dec_targ	-25.309333	Observer's specified target Dec [deg]
ra_nom	228.36708262162	Nominal RA [deg]
dec_nom	-25.307152814606	Nominal Dec [deg]
roll_nom	79.247300223322	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5048.4458217621	Sum of GTIs [s]
livetime	4982.484160489	Livetime [s]
ontime5	5048.4047817588	Sum of GTIs [s]
ontime6	5048.3637417555	Sum of GTIs [s]
ontime7	5048.4458217621	Sum of GTIs [s]
ontime8	5048.3227017522	Sum of GTIs [s]
l2events	49723	Number of level 2 events



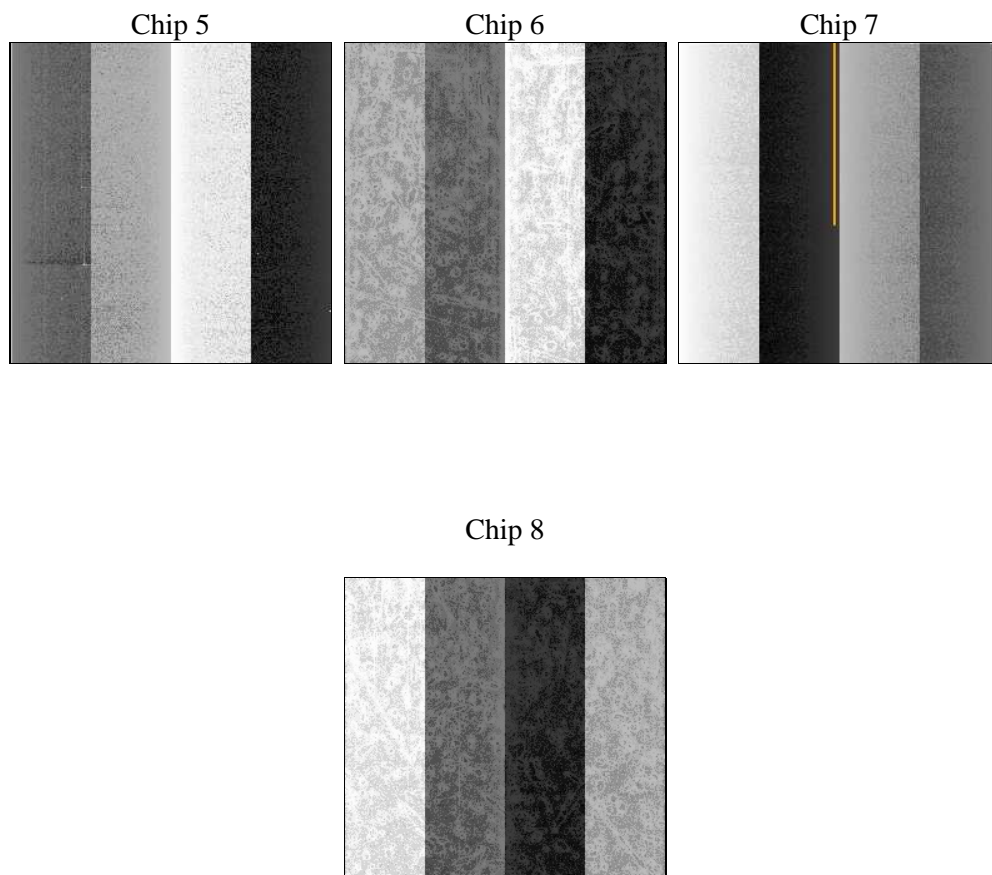
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5048.4458217621	Sum of GTIs [s]
caldsver	4.4.7	 	ontime5	5048.4047817588	Sum of GTIs [s]
date	2012-01-12T06:08:49	Date and time of file creation	ontime6	5048.3637417555	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5048.4458217621	Sum of GTIs [s]
			ontime8	5048.3227017522	Sum of GTIs [s]
			l1events	170145	Number of level 1 events

2.1.4 Events

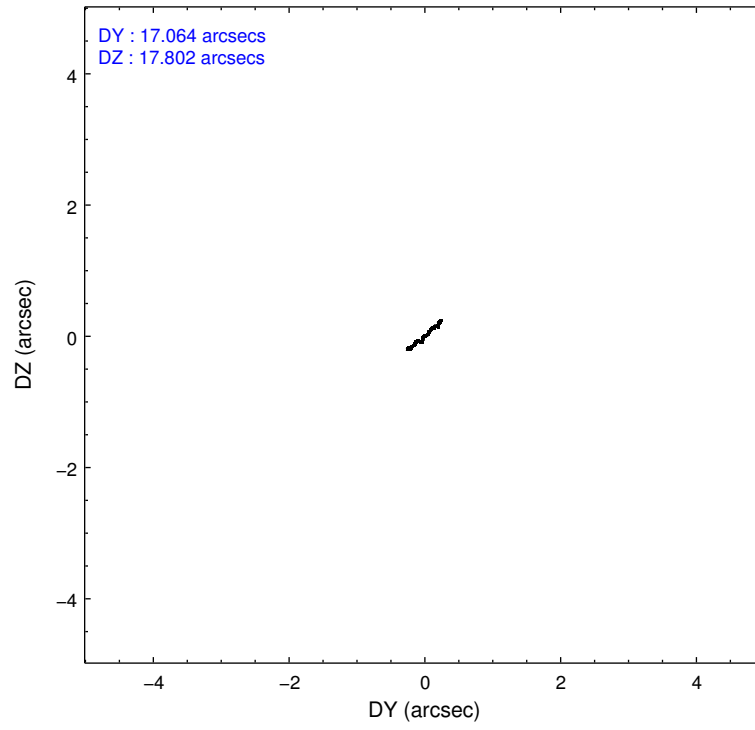
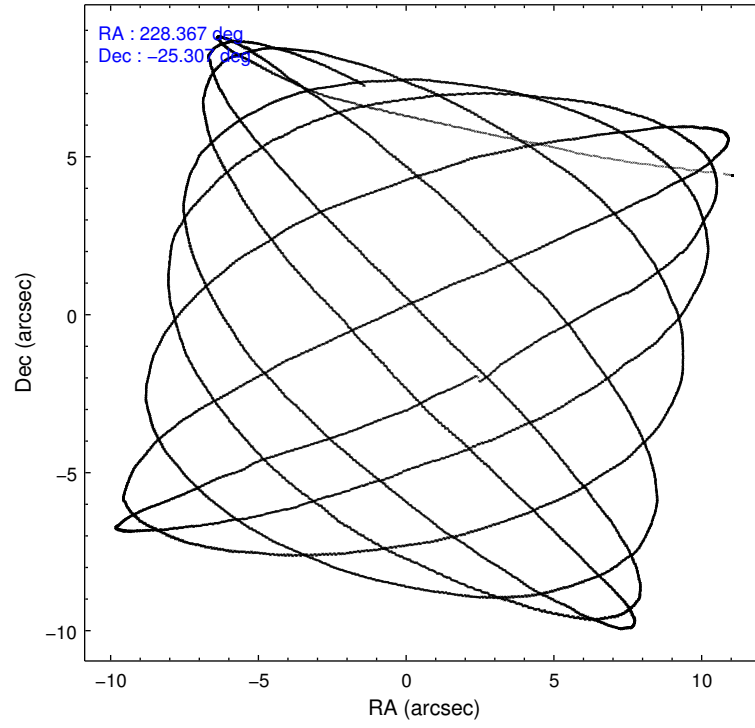
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52628	32901	41520	43096
rejected events	25954	29015	22658	31586
rejected %	49%	88%	54%	73%

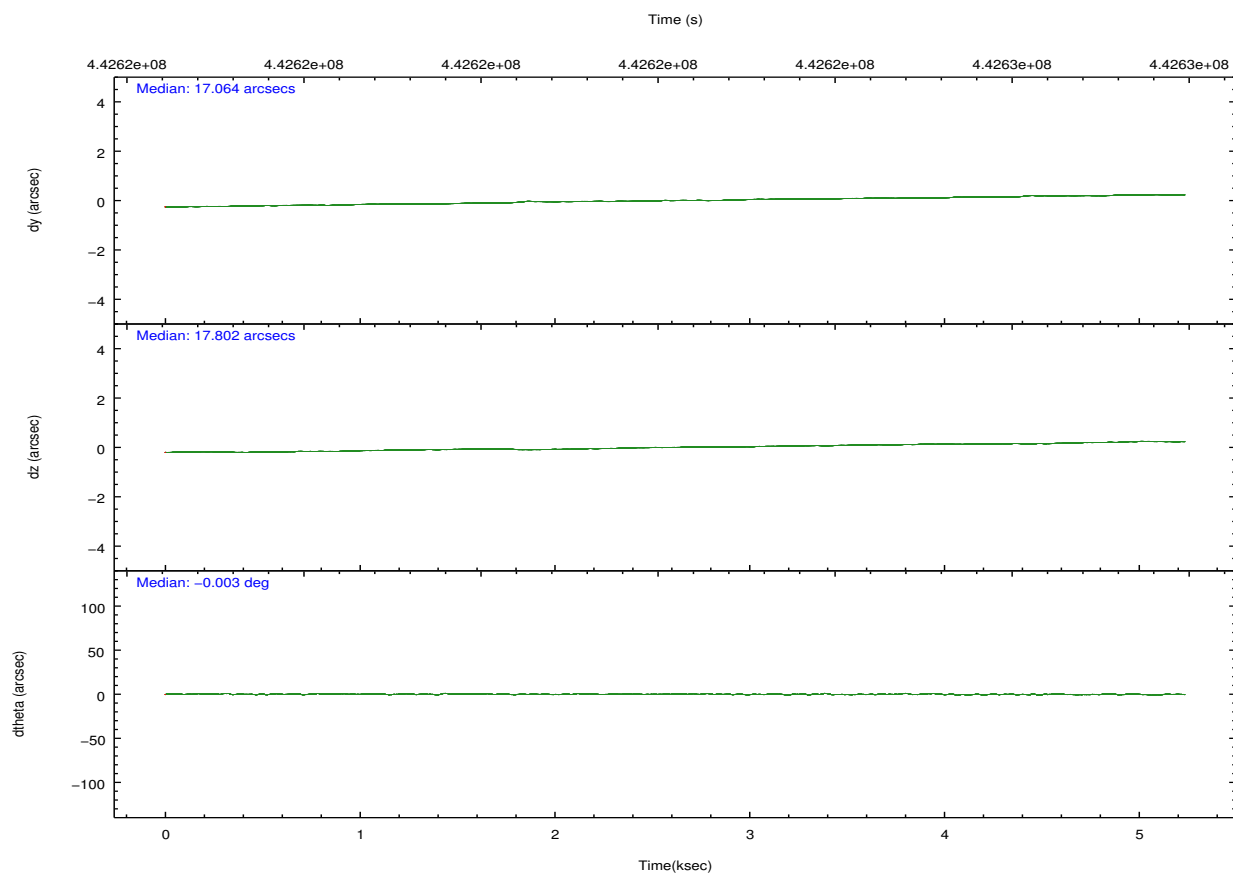
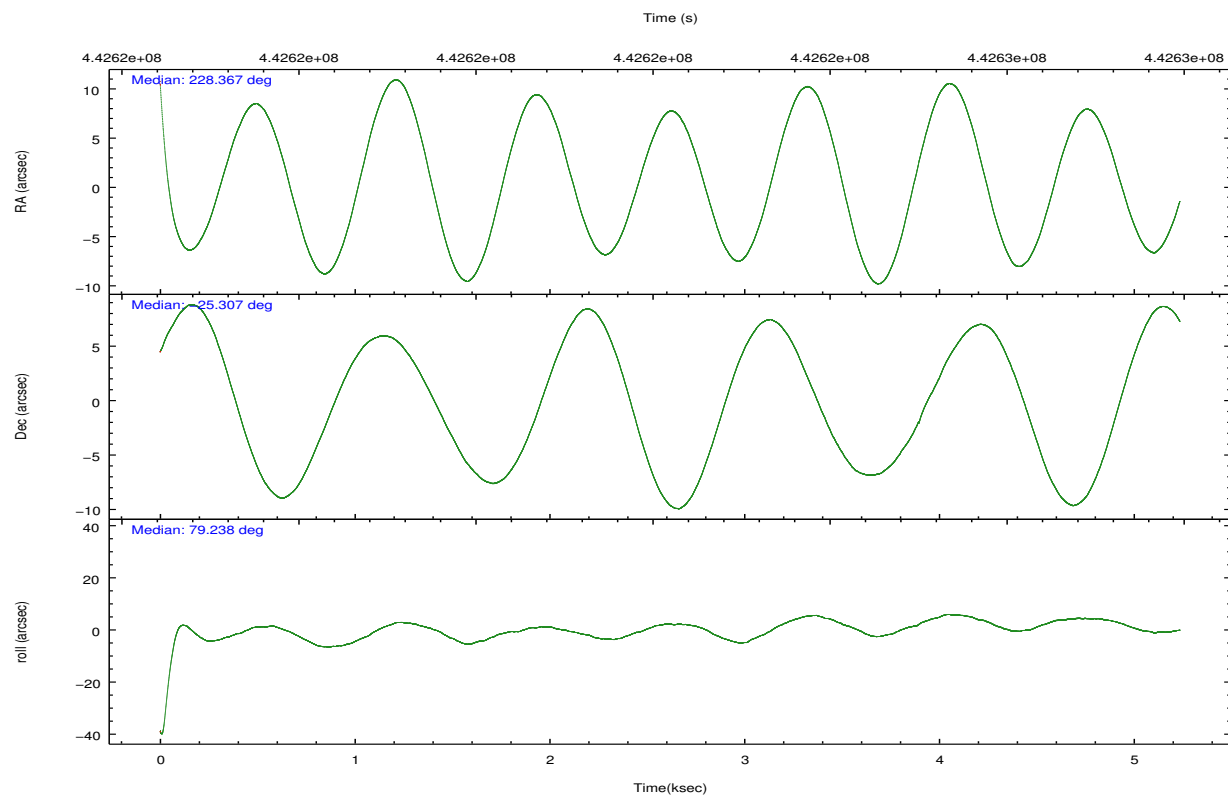
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3699	1461	1740	3501
	7%	4%	4%	8%
grade 1 events	153	20	42	32
	0%	0%	0%	0%
grade 2 events	7713	873	3974	2592
	14%	2%	9%	6%
grade 3 events	967	364	1577	1166
	1%	1%	3%	2%
grade 4 events	943	390	1683	1154
	1%	1%	4%	2%
grade 5 events	3954	1529	4272	2248
	7%	4%	10%	5%
grade 6 events	13370	802	9920	3101
	25%	2%	23%	7%
grade 7 events	21829	27462	18312	29302
	41%	83%	44%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	228.377505	228.3670826216186	CCD I2 on	N	N
[deg] Pointing Dec	-25.332957	-25.30715281460647	CCD I3 on	N	N
[deg] Pointing Roll	79.095261	79.24730022332156	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	Y
[s] Observation start time (MET)	442621706.184000	442620798.36614	CCD S5 on	N	N
Observation start date	2012-01-10T22:27:20	2012-01-10T22:13:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	442626706.184000	442627715.0665	On-chip summing requested	N	N
Observation end date	2012-01-10T23:50:40	2012-01-11T00:08:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



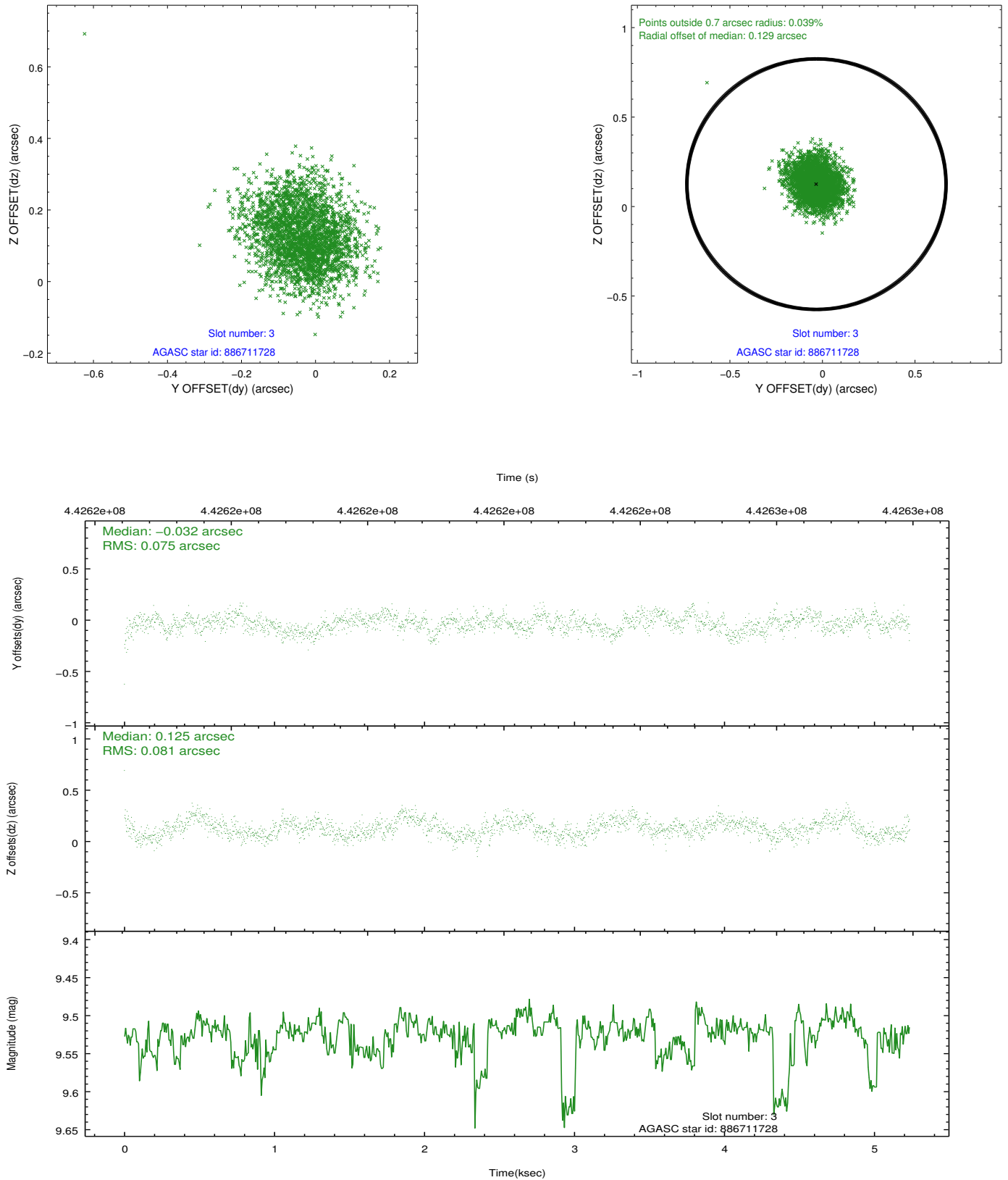


Slot Statistics

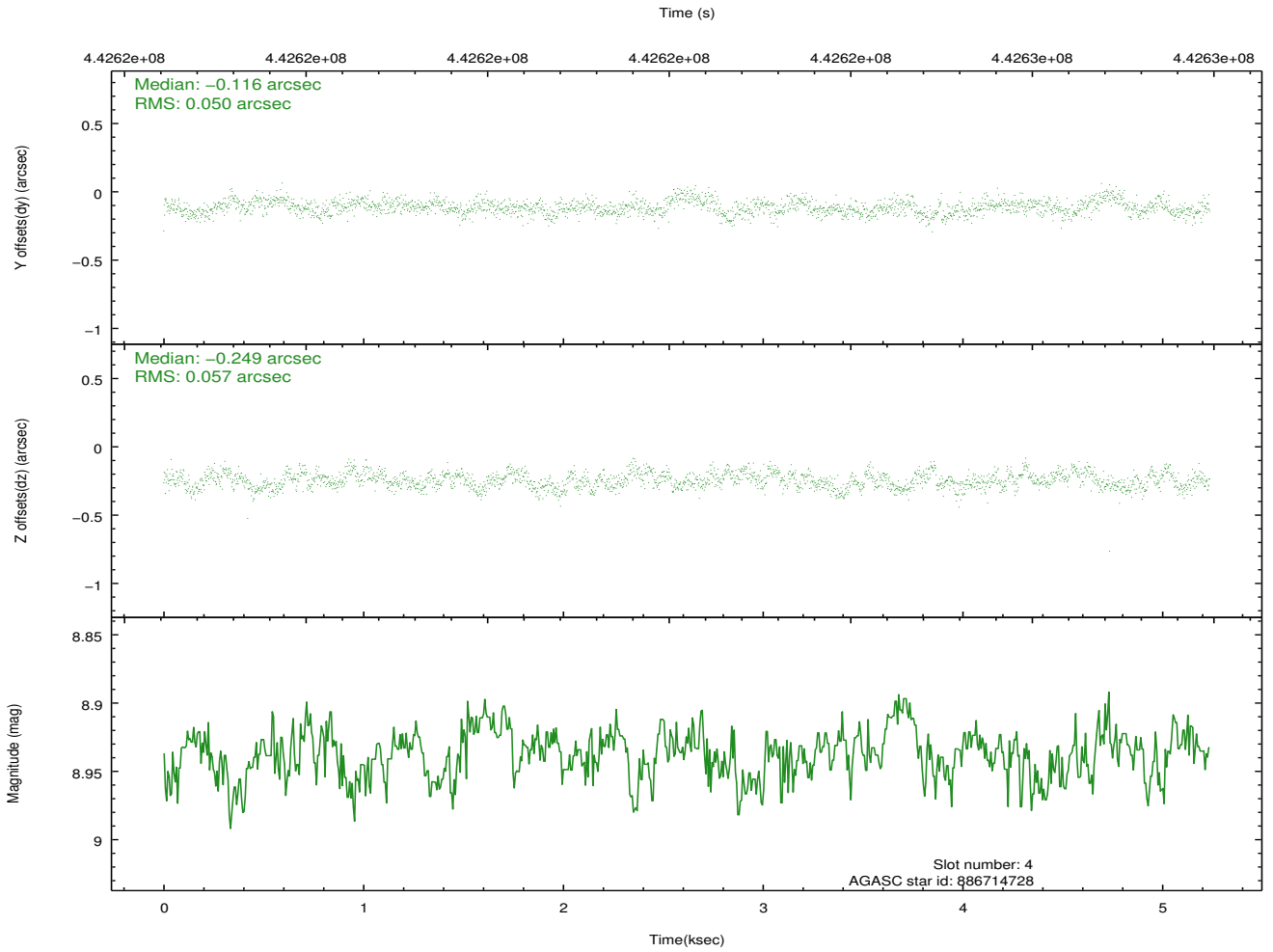
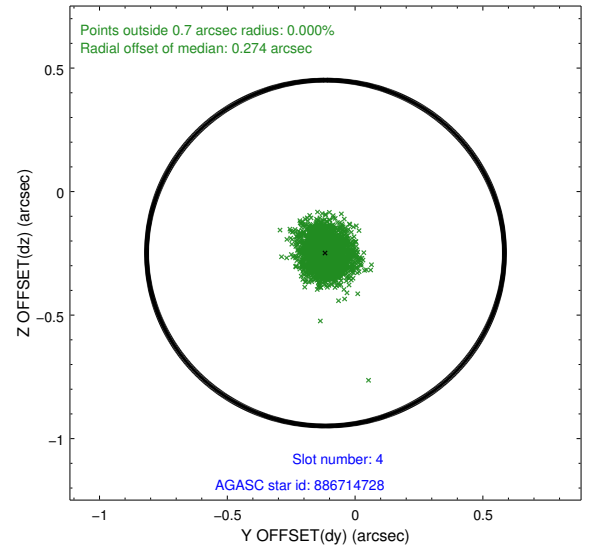
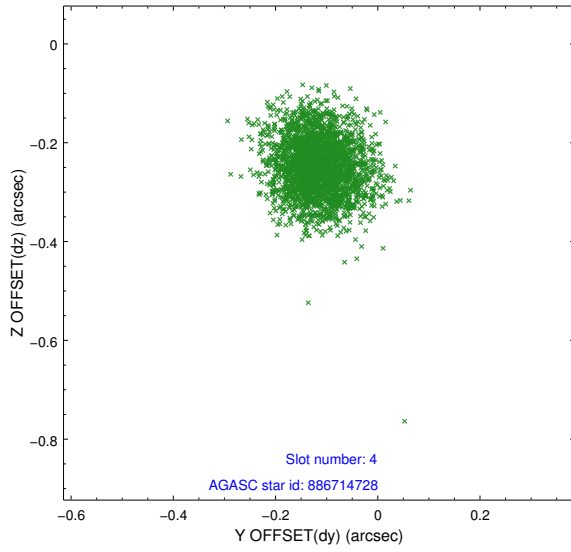
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1277	-0.075	-0.035	0.008	0.012	0.000000	0.000000	-770.20	-1739.27
1	FID	ACIS-S-4	7.00	1278	0.199	0.045	0.007	0.013	0.000000	0.000000	2142.86	168.01
2	FID	ACIS-S-5	7.03	1278	-0.156	-0.002	0.008	0.014	0.000000	0.000000	-1821.60	163.05
3	GUIDE	886711728	9.52	2543	-0.032	0.125	0.119	0.186	227.880351	-24.673381	2020.48	2046.09
4	GUIDE	886714728	8.94	2548	-0.116	-0.249	0.081	0.129	228.124122	-25.250729	134.19	866.47
5	GUIDE	886838528	8.71	2554	0.287	0.189	0.086	0.135	228.549109	-25.650356	-1017.29	-761.36
6	GUIDE	886846328	9.29	2553	-0.264	-0.027	0.101	0.168	228.921000	-25.006528	1485.03	-1518.84
7	GUIDE	886846448	7.68	2554	0.126	-0.047	0.066	0.110	228.184593	-25.685065	-1363.08	373.72

2.4 Star Slots

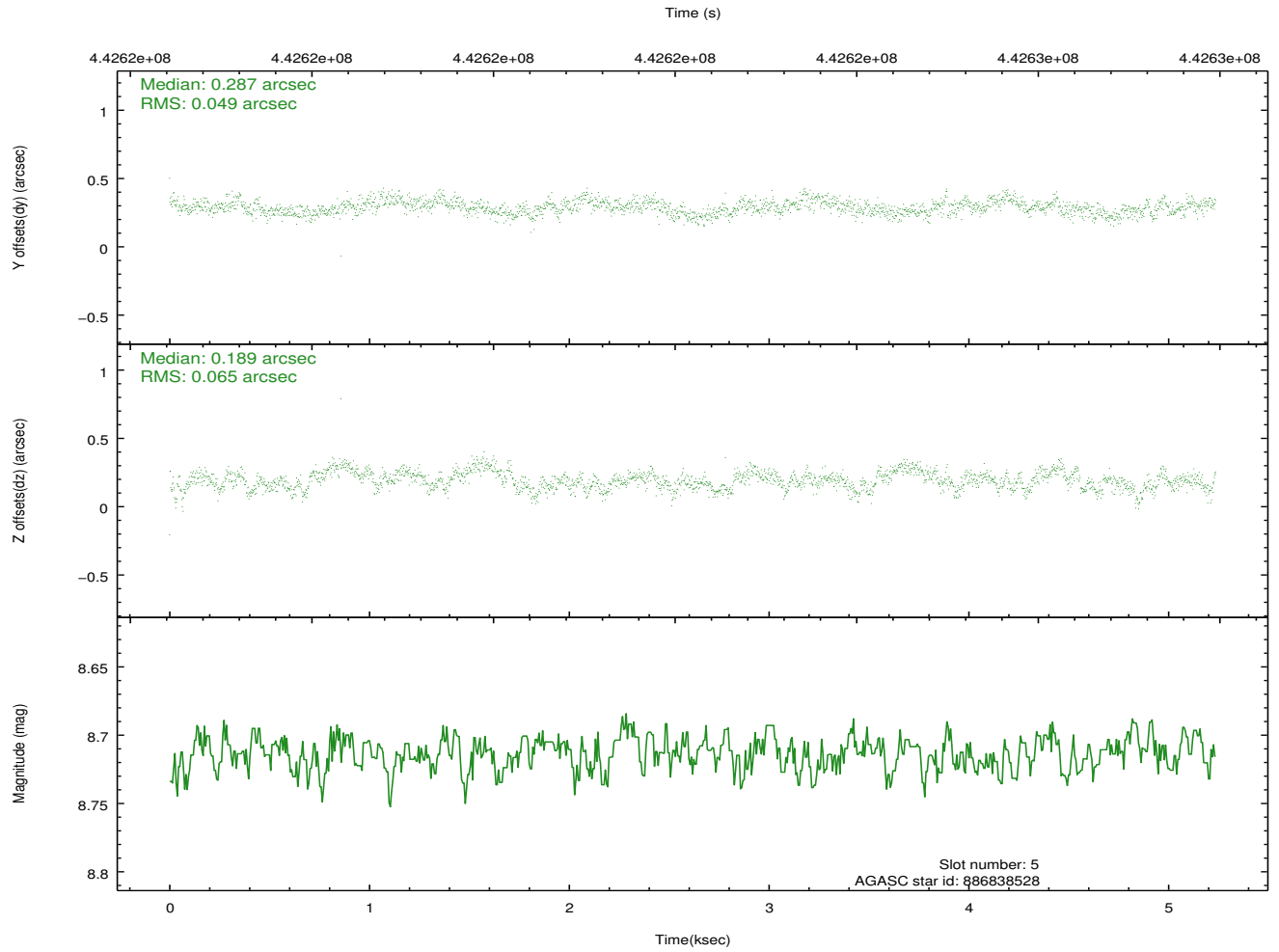
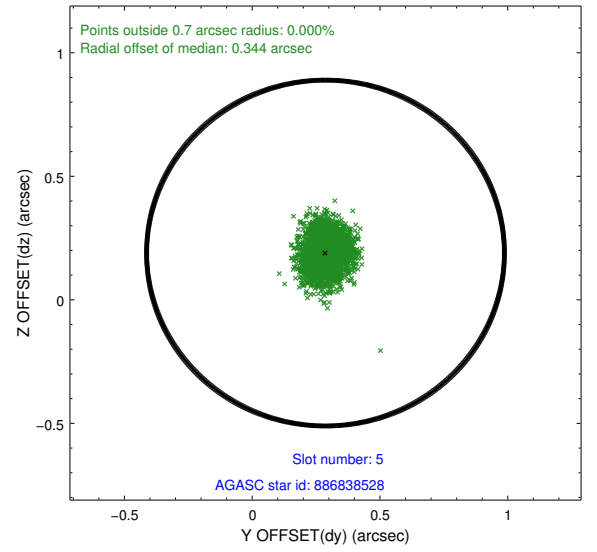
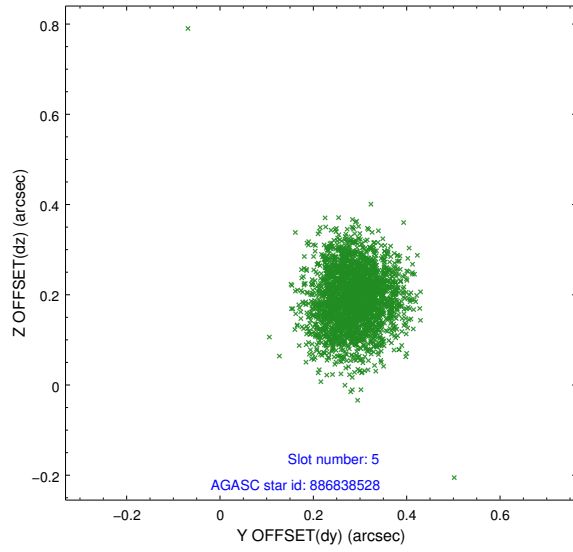
2.4.1 Slot 3



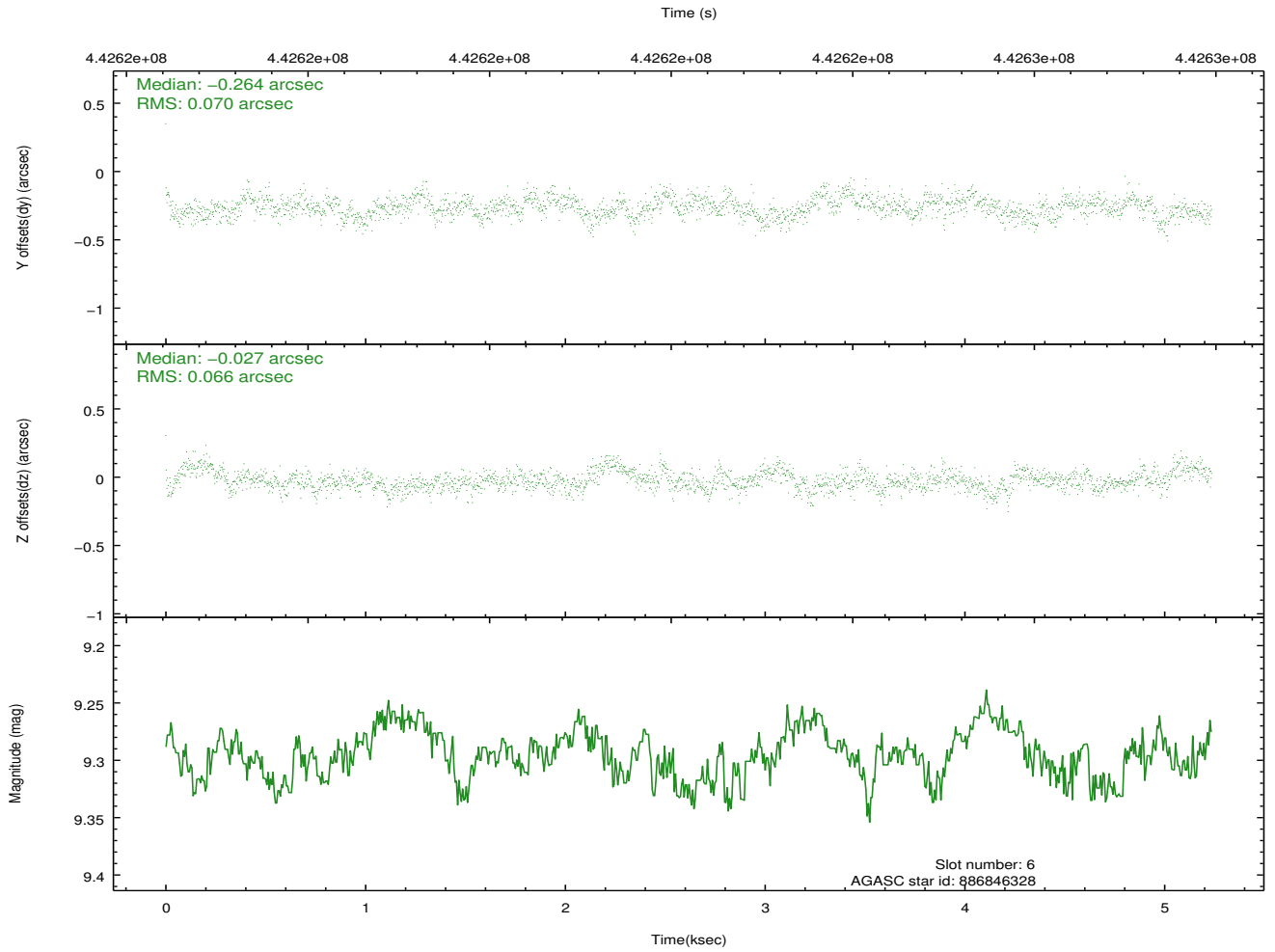
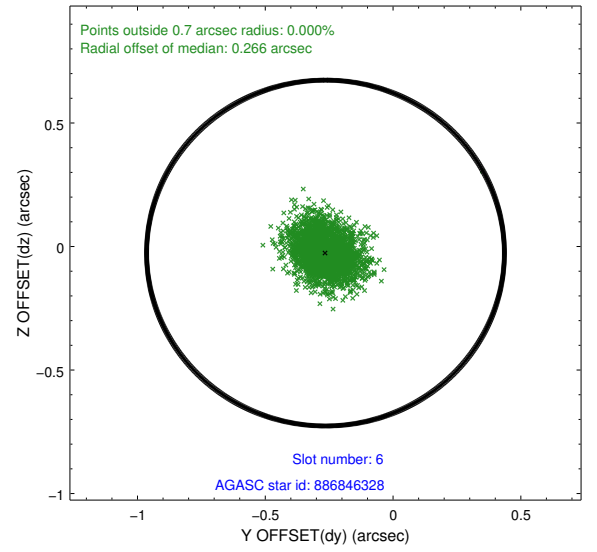
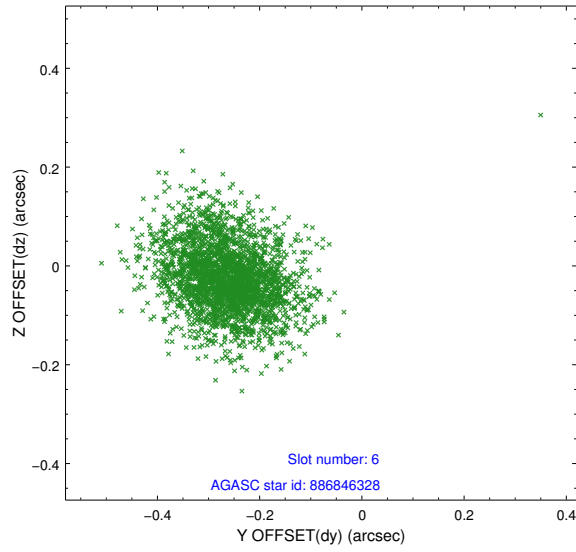
2.4.2 Slot 4



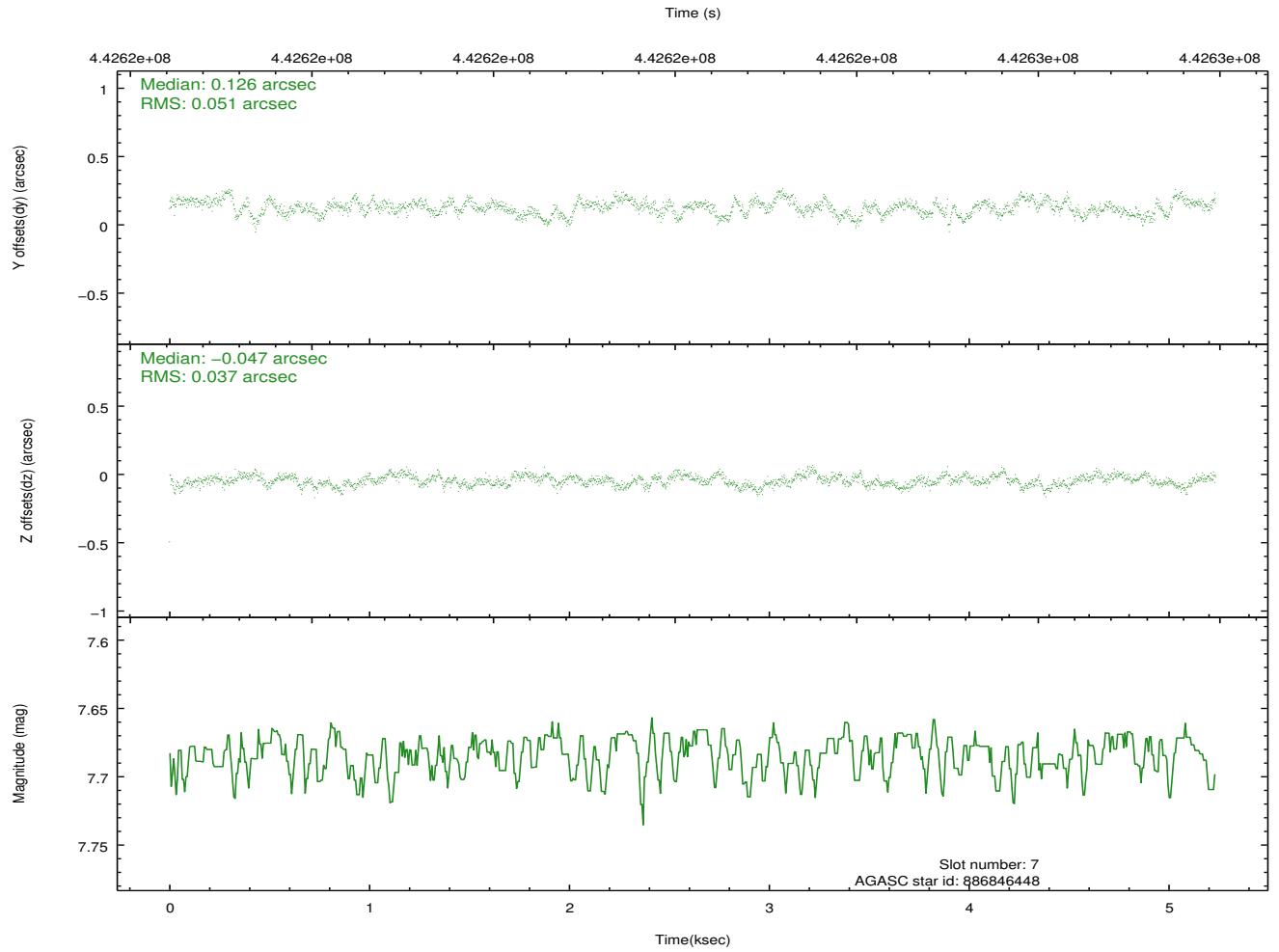
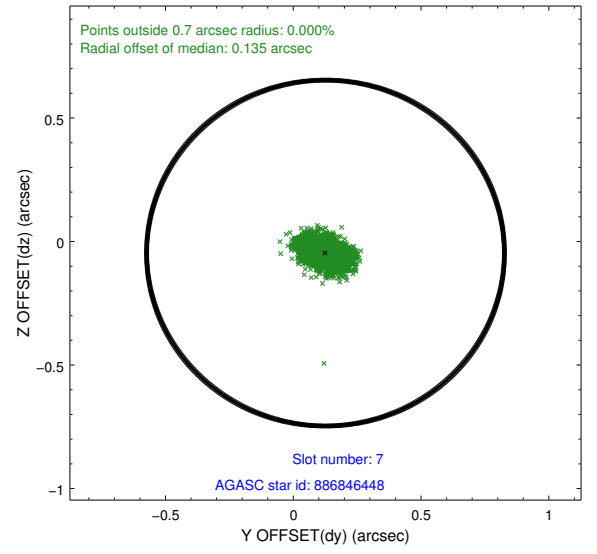
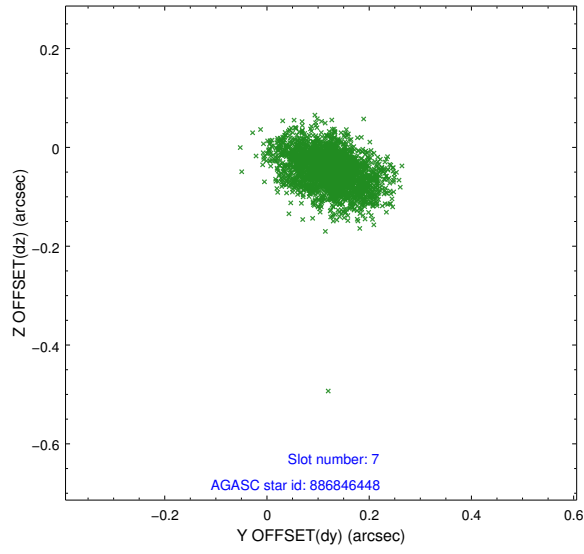
2.4.3 Slot 5



2.4.4 Slot 6

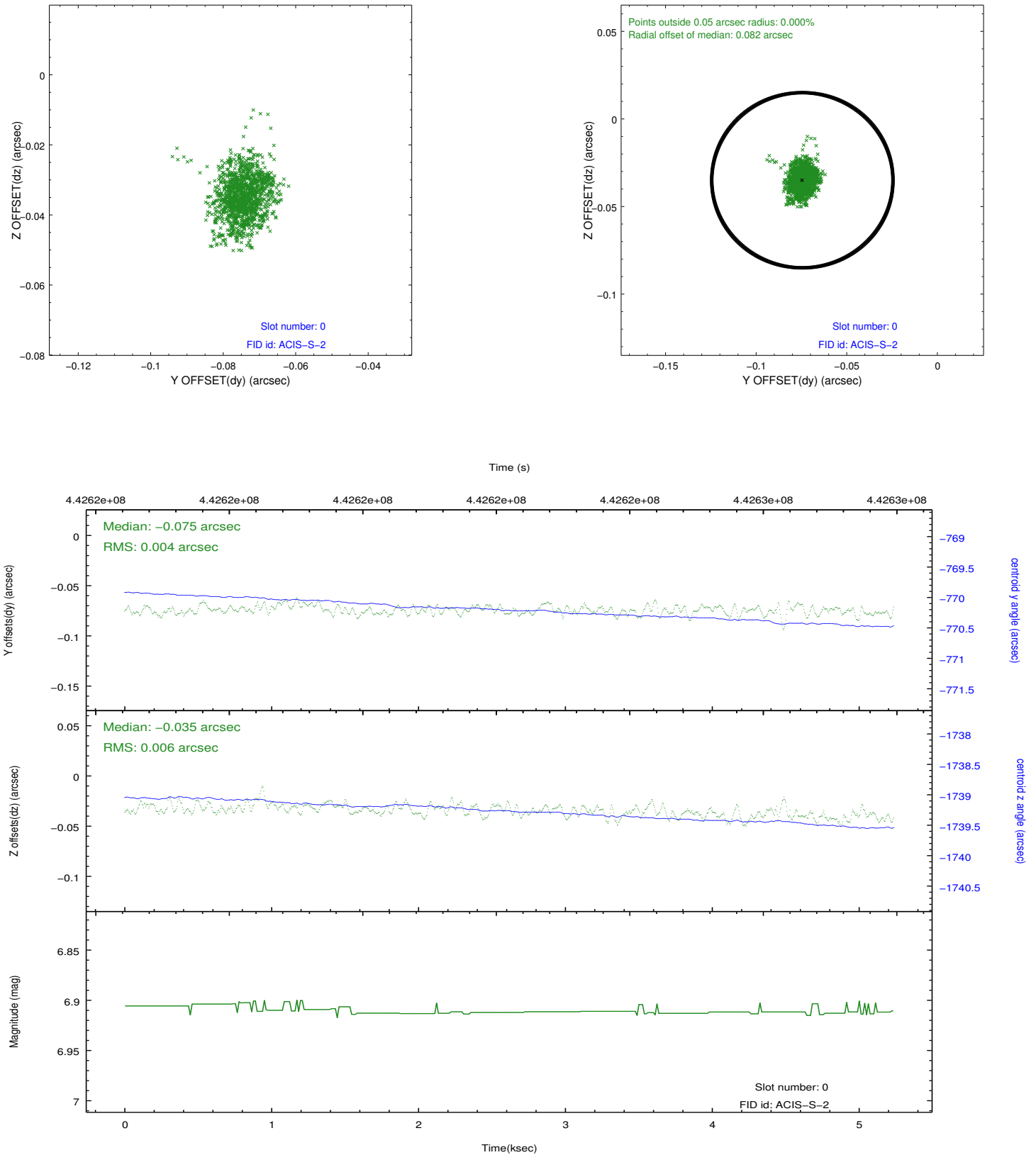


2.4.5 Slot 7

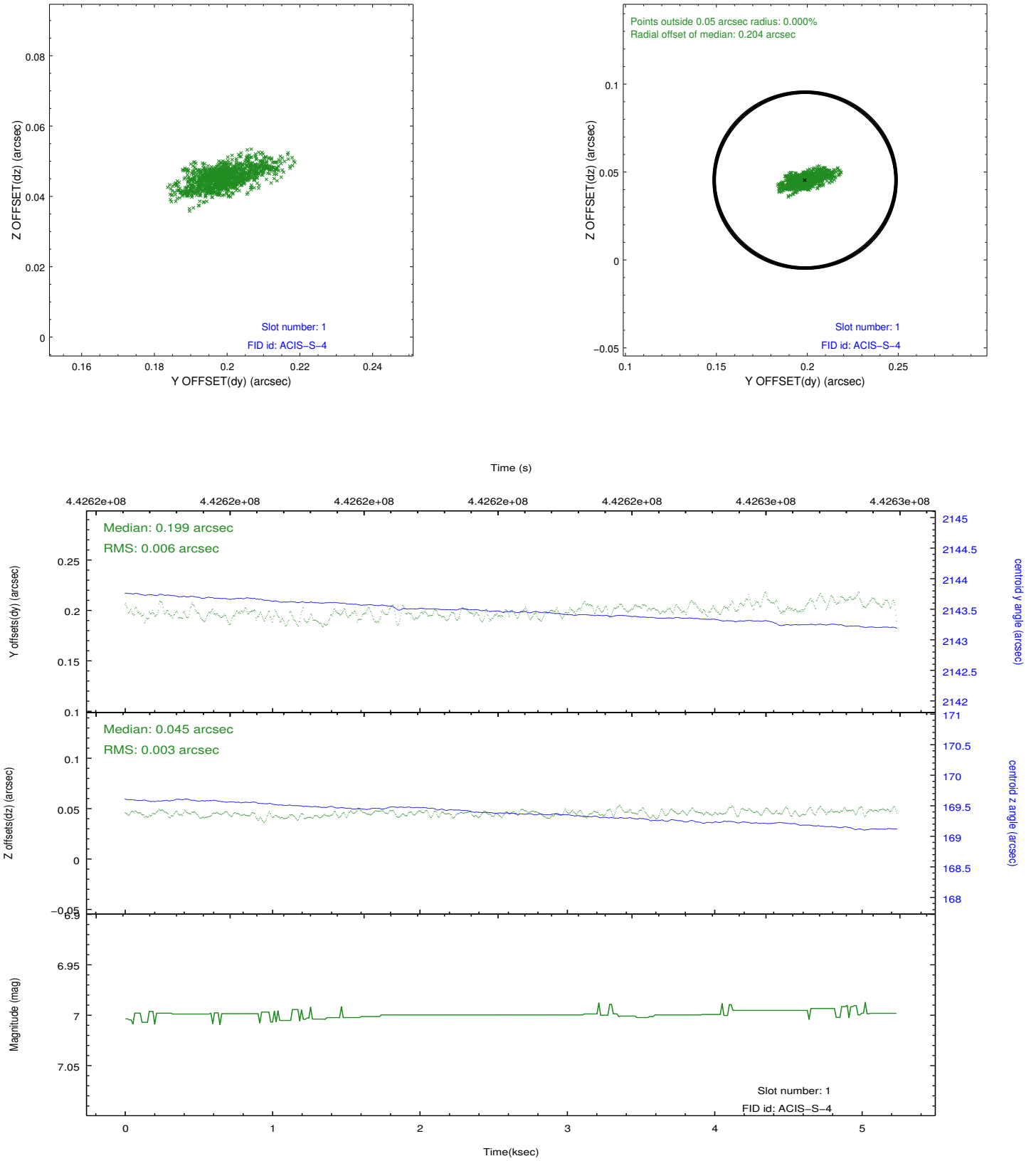


2.5 FID Slots

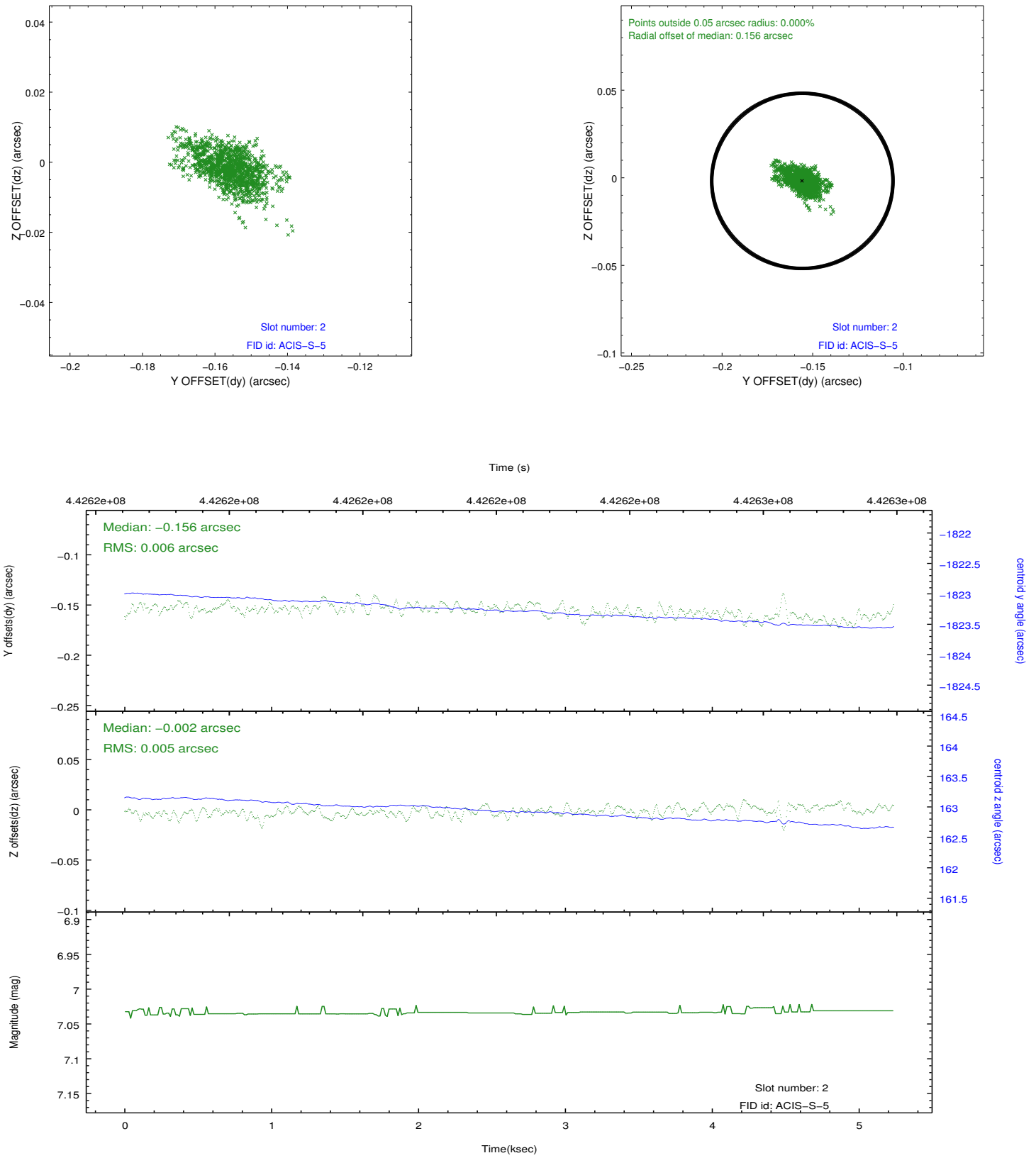
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0484458217621

A.2 Comments