

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12338 - L2 Version 2
Chandra X-Ray Center

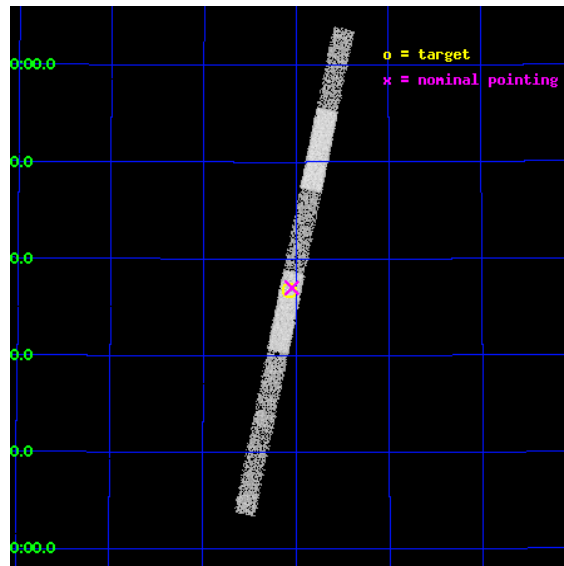
L2 Processing Date : Feb 19 2012

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

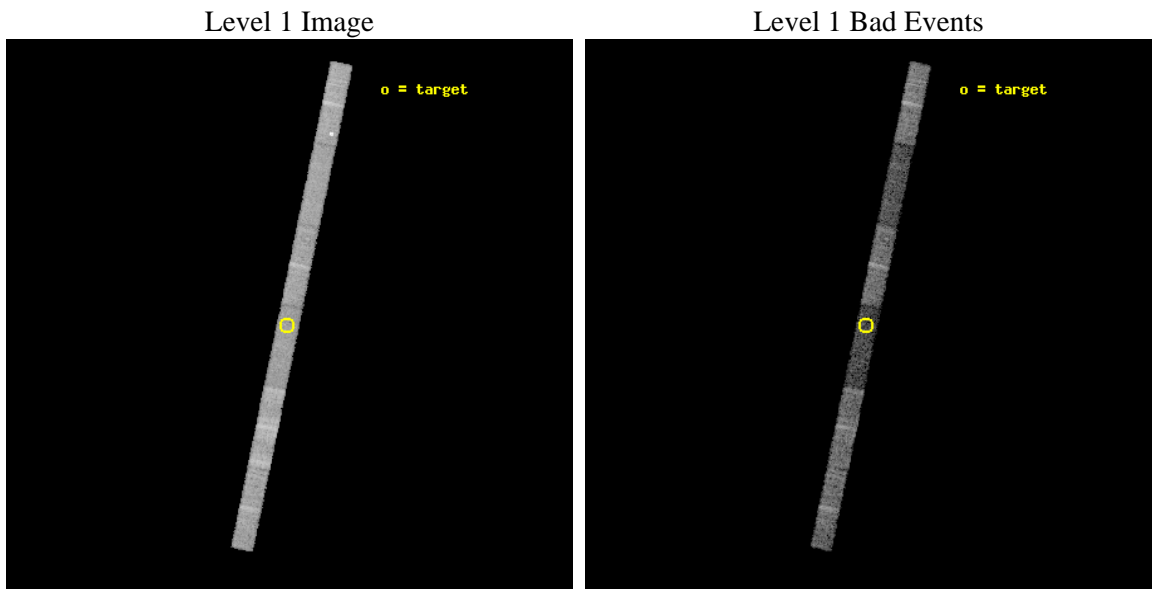
seq_num	200674	Sequence number
obs_id	12338	Observation id
title	Maunder Minimum stars: How frequent are they ?	Proposal title
observer	Prof. Jurgen Schmitt	Principal investigator
object	Gl 124	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	47.266667	Observer's specified target RA [deg]
dec_targ	49.613333	Observer's specified target Dec [deg]
ra_nom	47.261610668032	Nominal RA [deg]
dec_nom	49.616820067853	Nominal Dec [deg]
roll_nom	101.69171574456	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5095.040766716	Sum of GTIs [s]
livetime	4911.7864784649	Livetime [s]
ontime4	5095.0818067193	Sum of GTIs [s]
ontime5	5094.9997267127	Sum of GTIs [s]
ontime6	5094.9586867094	Sum of GTIs [s]
ontime7	5095.040766716	Sum of GTIs [s]
ontime8	5094.9176467061	Sum of GTIs [s]
ontime9	5094.8766067028	Sum of GTIs [s]
l2events	23696	Number of level 2 events



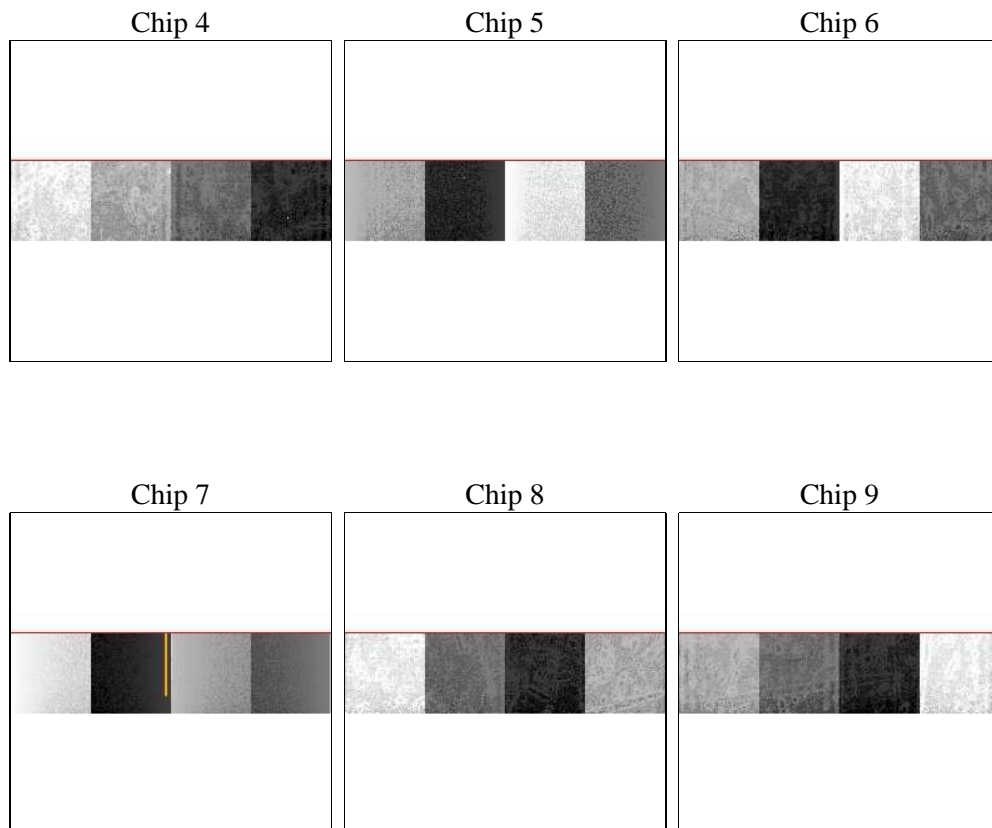
2 OBI

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	5095.040766716	Sum of GTIs [s]
caldsver	4.4.8	 	ontime4	5095.0818067193	Sum of GTIs [s]
date	2012-02-19T09:57:37	Date and time of file creation	ontime5	5094.9997267127	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5094.9586867094	Sum of GTIs [s]
			ontime7	5095.040766716	Sum of GTIs [s]
			ontime8	5094.9176467061	Sum of GTIs [s]
			ontime9	5094.8766067028	Sum of GTIs [s]
			l1events	116520	Number of level 1 events

2.1.4 Events

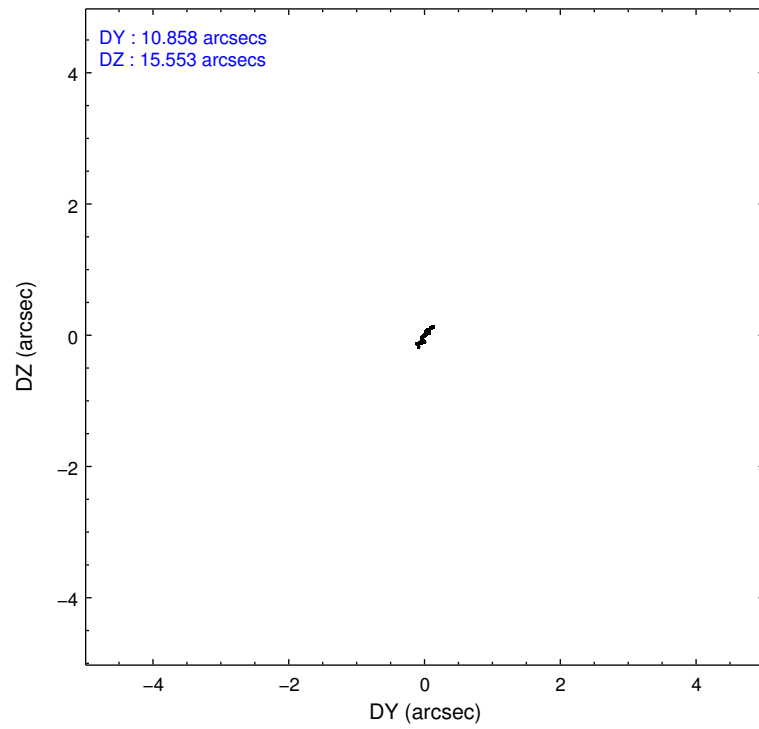
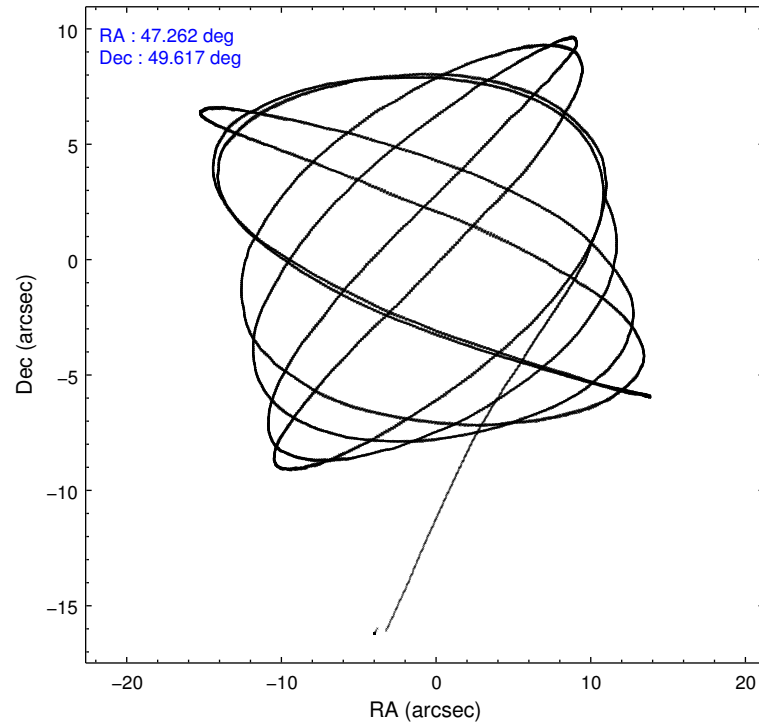
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	24829	17296	17894	13851	26106	16544
rejected events	20169	7957	15689	6324	15800	14383
rejected %	81%	46%	87%	45%	60%	86%

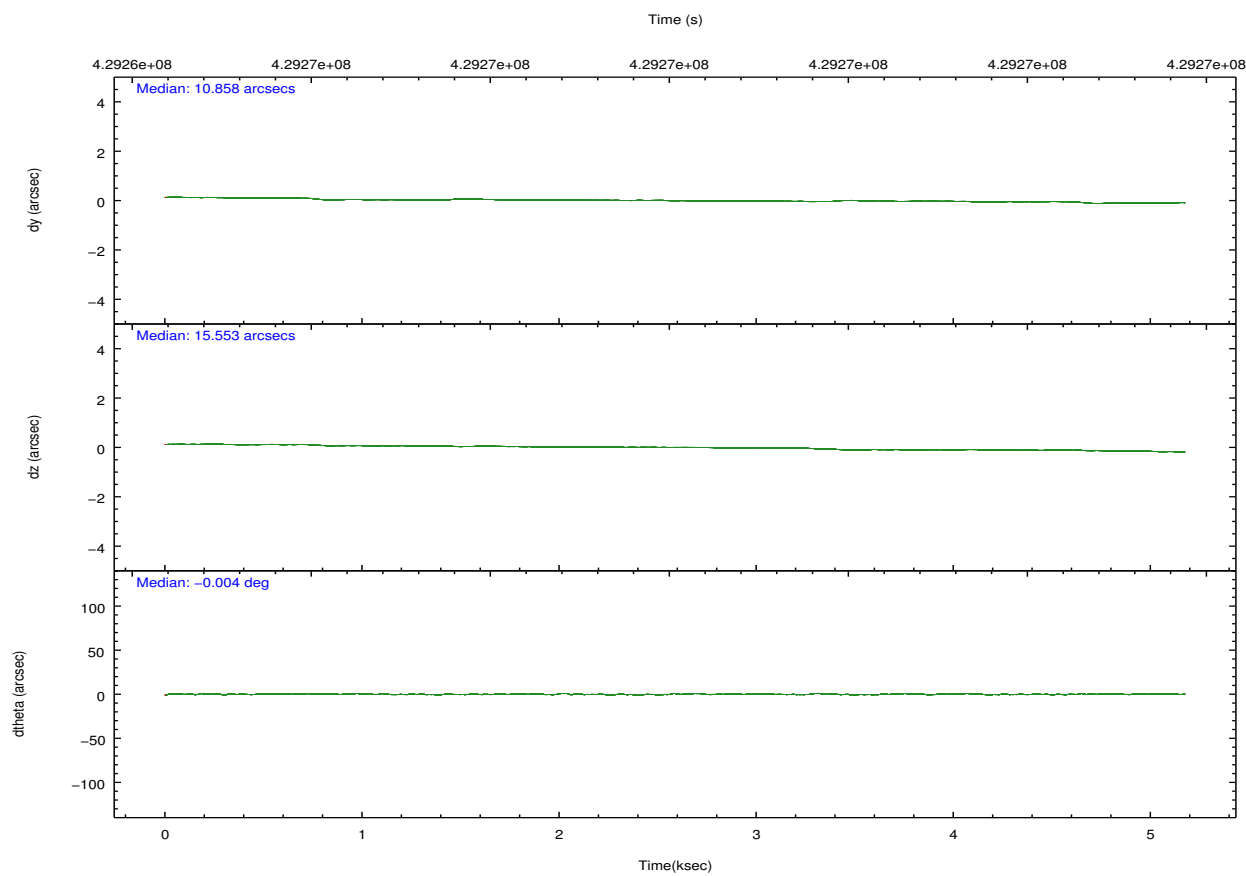
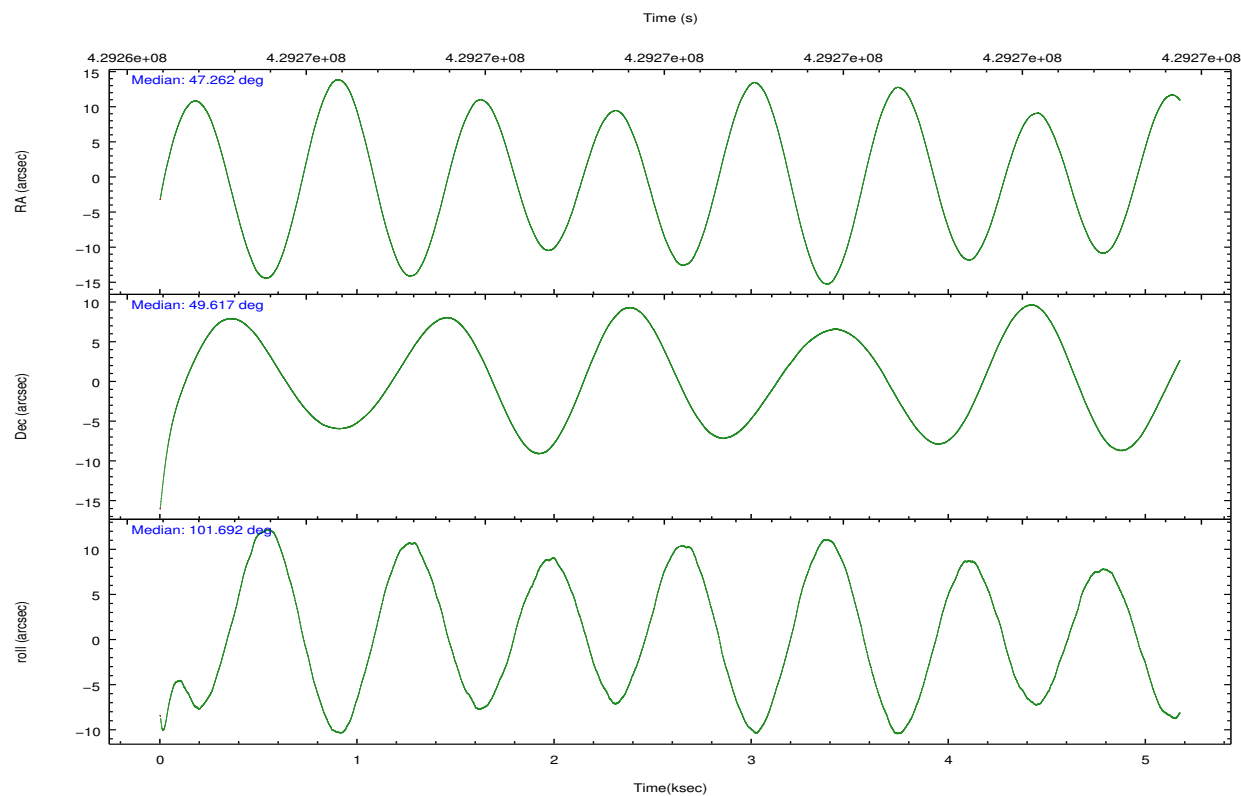
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3151	925	834	901	3556	937
	12%	5%	4%	6%	13%	5%
grade 1 events	17	57	6	27	32	3
	0%	0%	0%	0%	0%	0%
grade 2 events	519	3154	429	1816	2138	356
	2%	18%	2%	13%	8%	2%
grade 3 events	338	667	294	785	1309	280
	1%	3%	1%	5%	5%	1%
grade 4 events	304	642	280	770	1146	267
	1%	3%	1%	5%	4%	1%
grade 5 events	435	1416	426	1275	568	426
	1%	8%	2%	9%	2%	2%
grade 6 events	349	3957	368	3258	2160	322
	1%	22%	2%	23%	8%	1%
grade 7 events	19716	6478	15257	5019	15197	13953
	79%	37%	85%	36%	58%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	47.290019	47.26161066803172	CCD I2 on	N	N
[deg] Pointing Dec	49.596677	49.61682006785264	CCD I3 on	N	N
[deg] Pointing Roll	101.513497	101.6917157445648	CCD S0 on	O2	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	429265615.184000	429264168.42635	CCD S5 on	O1	Y
Observation start date	2011-08-09T08:25:49	2011-08-09T08:02:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	429270615.184000	429271497.17674	On-chip summing requested	N	N
Observation end date	2011-08-09T09:49:09	2011-08-09T10:04:57	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.1

2.3 Aspect



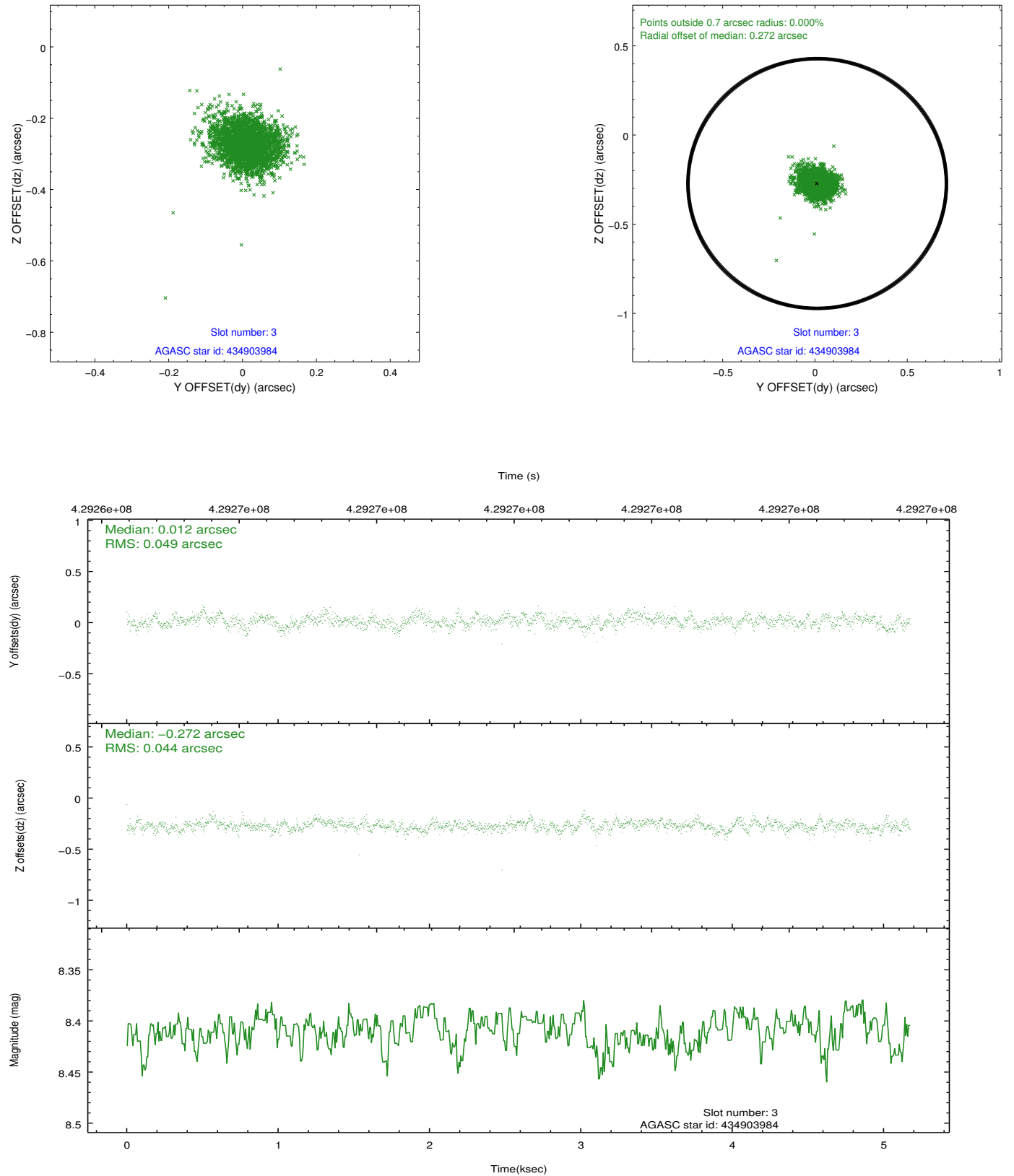


Slot Statistics

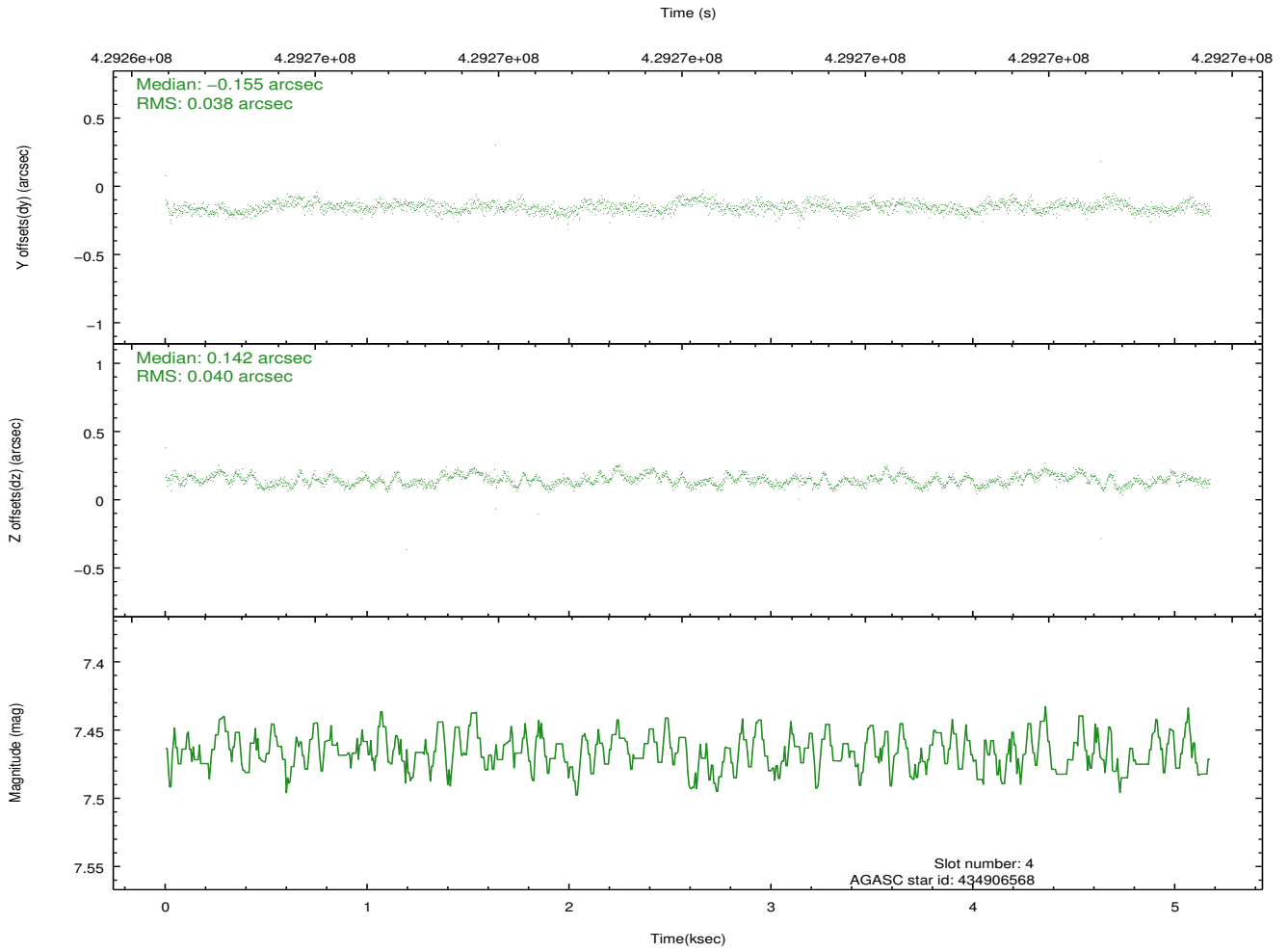
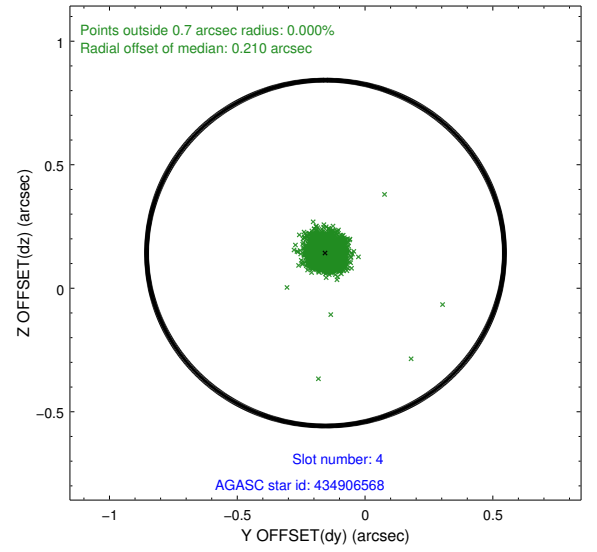
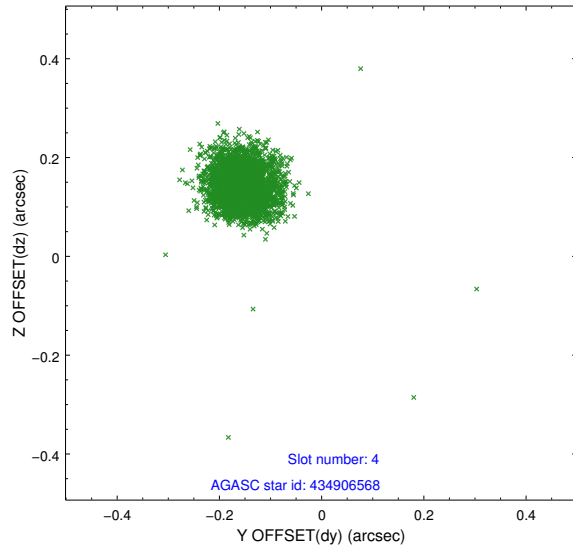
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	1263	-0.068	-0.012	0.007	0.011	0.000000	0.000000	-763.79	-1736.95
1	FID	ACIS-S-4	6.97	1263	0.189	0.036	0.006	0.011	0.000000	0.000000	2149.21	170.37
2	FID	ACIS-S-5	7.00	1263	-0.152	-0.016	0.007	0.012	0.000000	0.000000	-1815.21	165.32
3	GUIDE	434903984	8.41	2524	0.012	-0.272	0.069	0.111	46.576244	49.252856	-869.76	1889.45
4	GUIDE	434906568	7.47	2524	-0.155	0.142	0.057	0.088	47.565775	49.657014	85.40	-672.38
5	GUIDE	435030896	8.72	2521	0.171	0.111	0.084	0.129	47.904661	49.267979	-1441.63	-1179.77
6	GUIDE	435036896	8.11	2522	0.173	0.219	0.064	0.103	48.130728	49.064468	-2262.65	-1563.16
7	GUIDE	434901544	8.04	2519	-0.202	-0.196	0.063	0.105	46.103869	50.032376	2107.00	2371.56

2.4 Star Slots

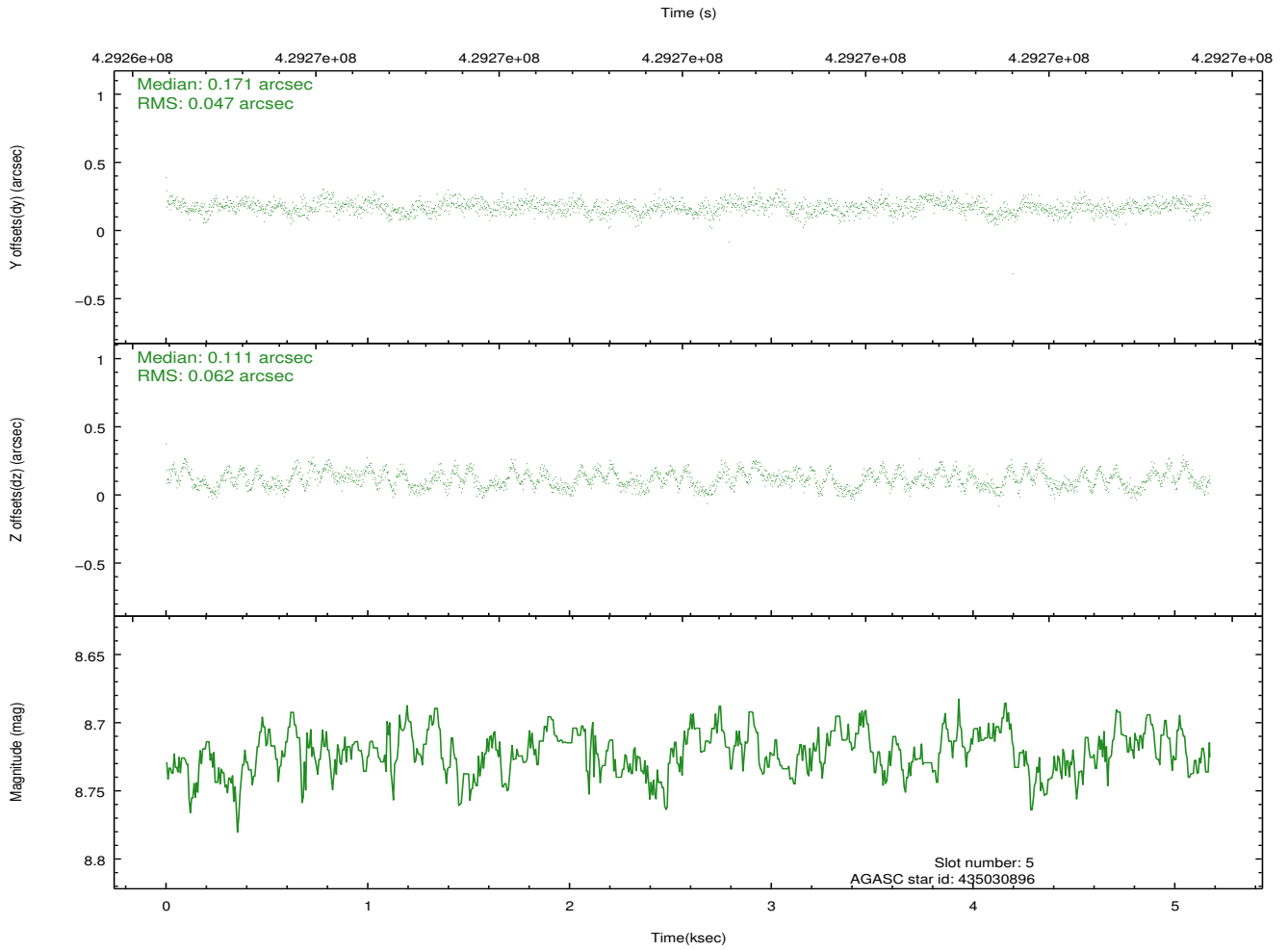
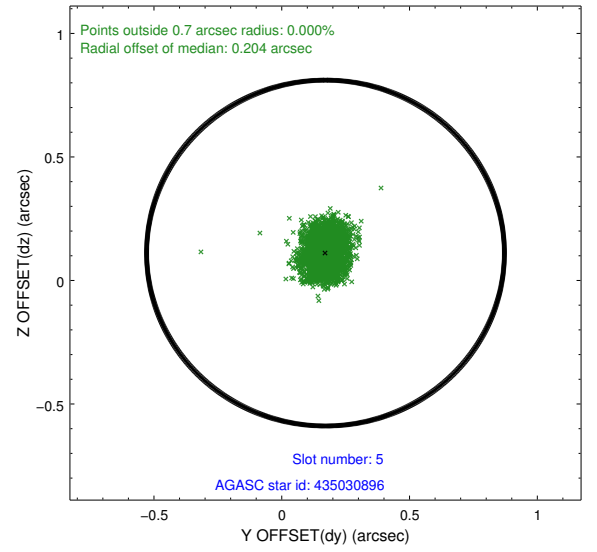
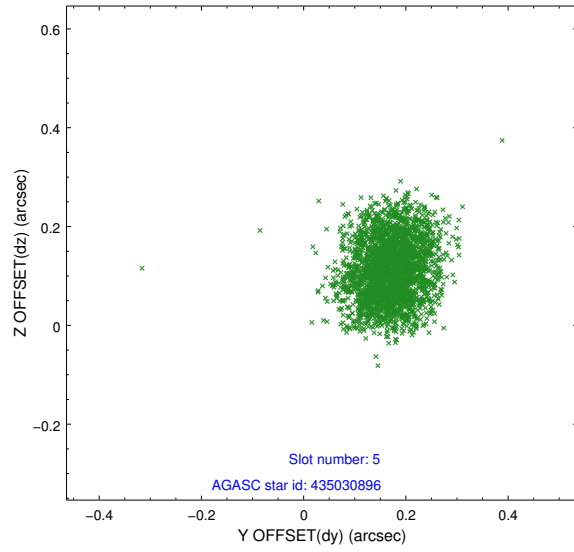
2.4.1 Slot 3



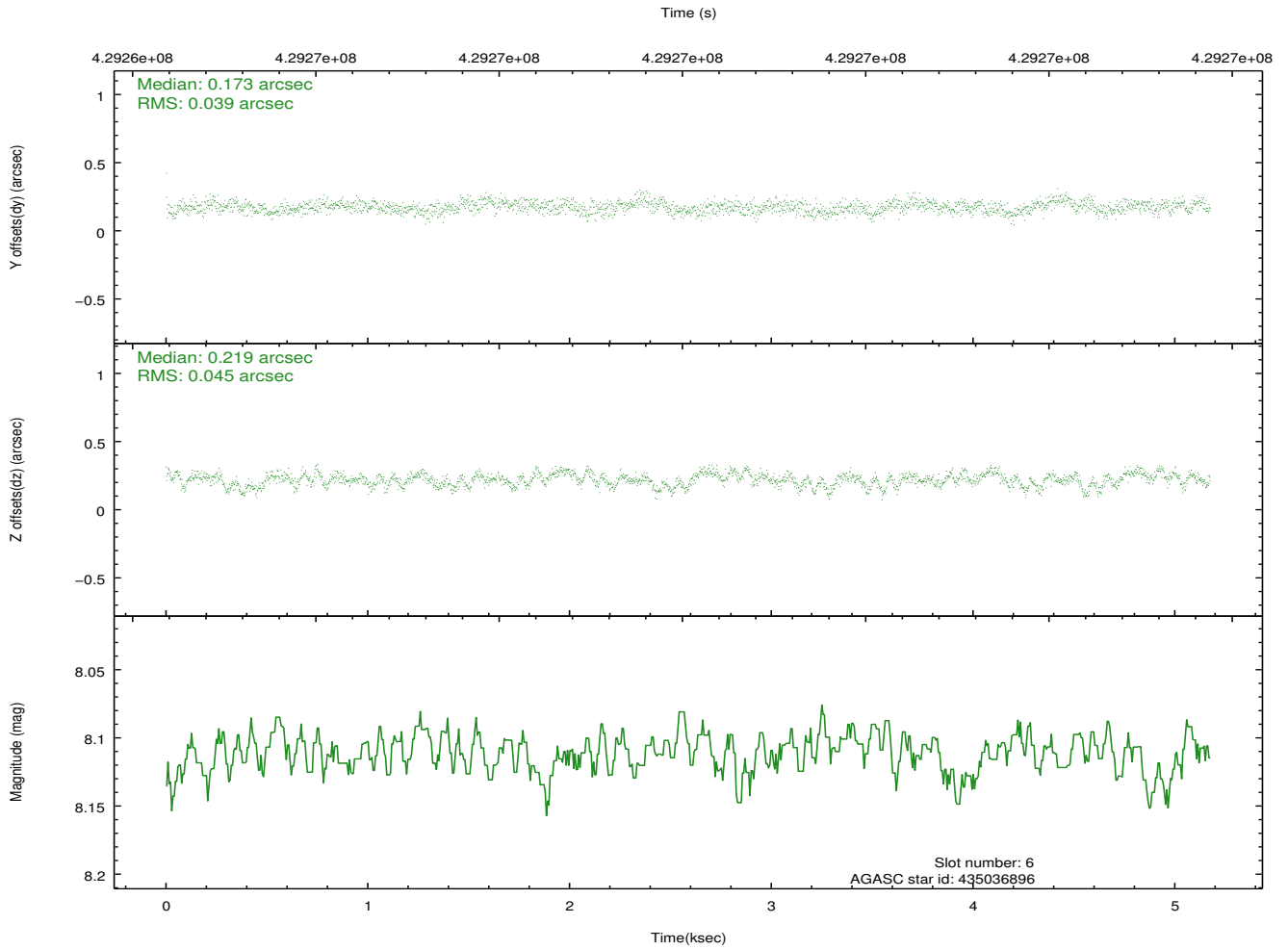
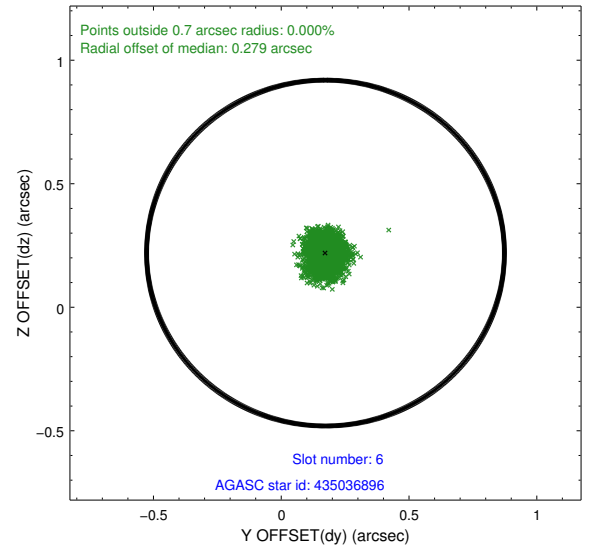
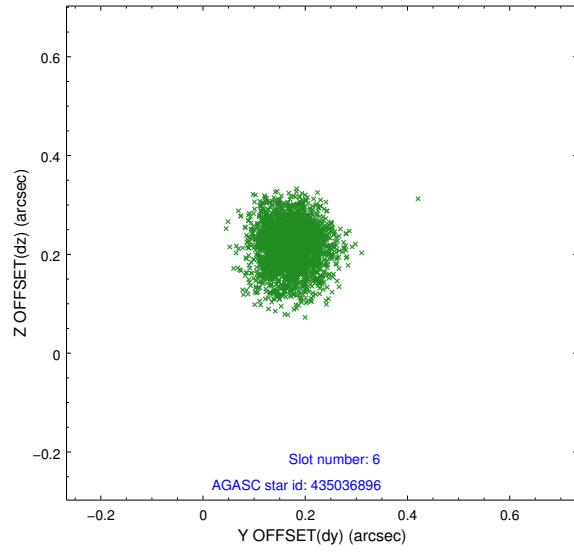
2.4.2 Slot 4



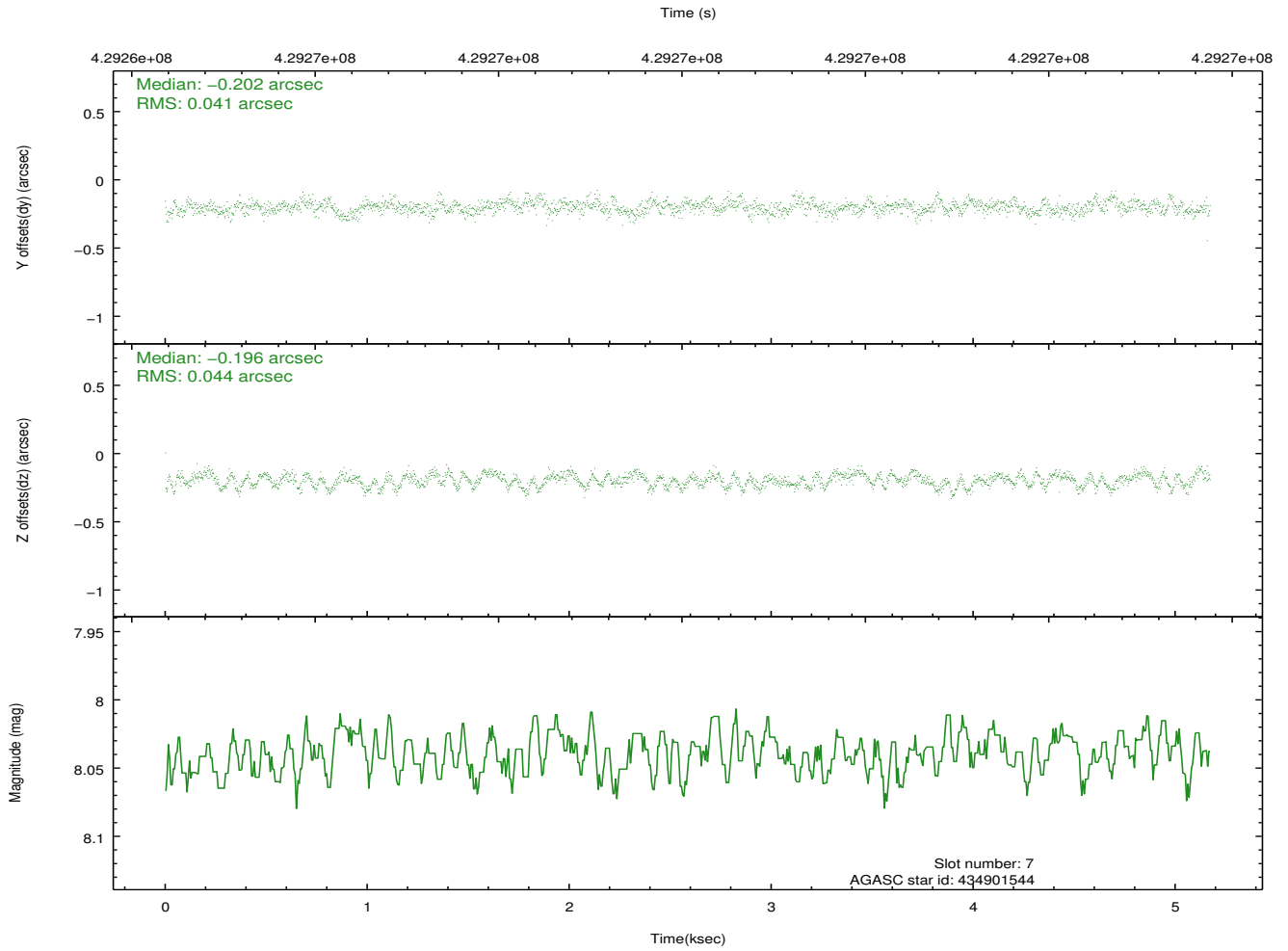
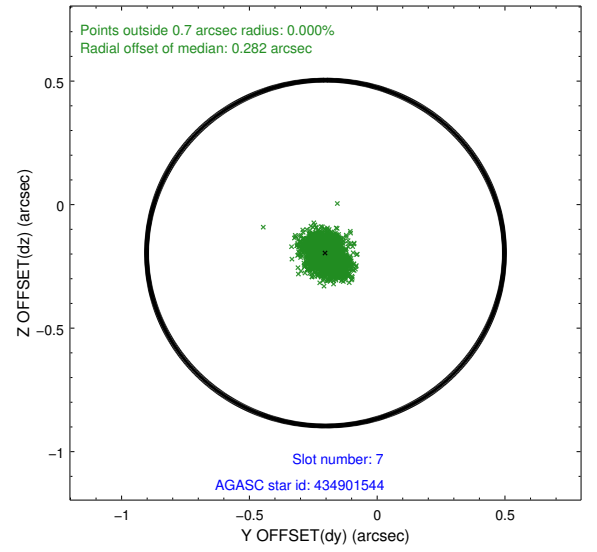
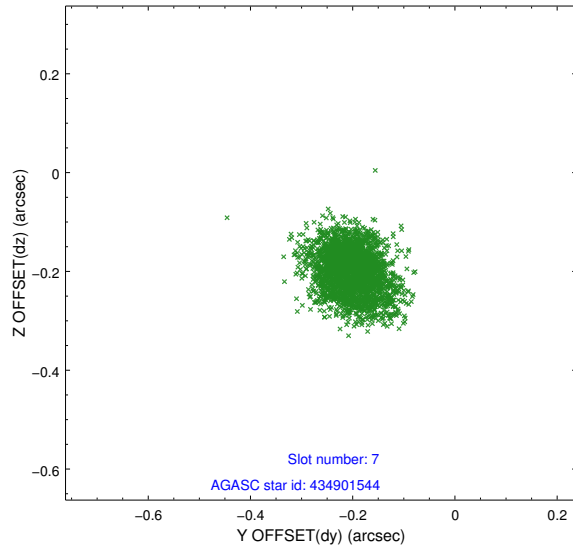
2.4.3 Slot 5



2.4.4 Slot 6

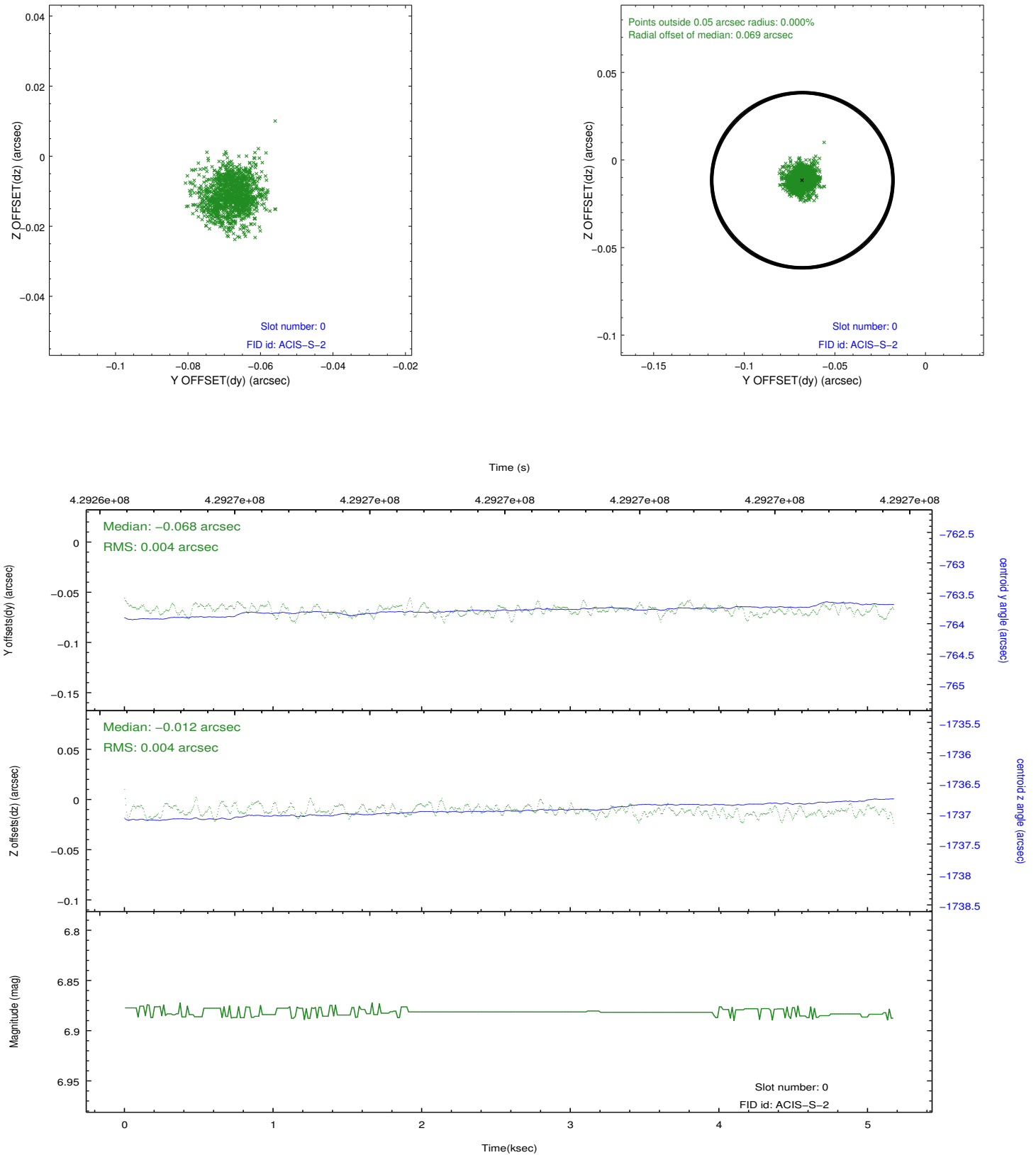


2.4.5 Slot 7

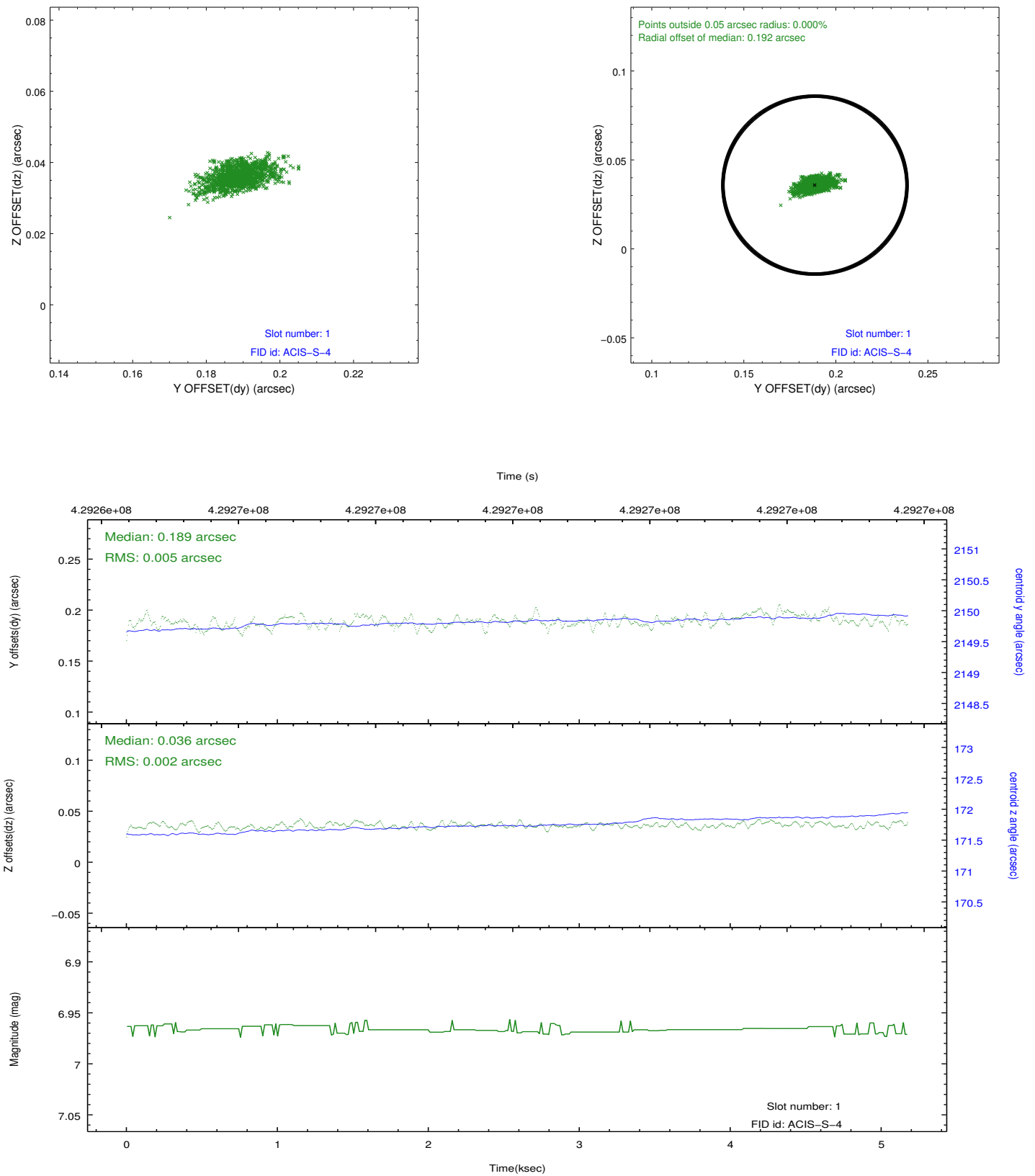


2.5 FID Slots

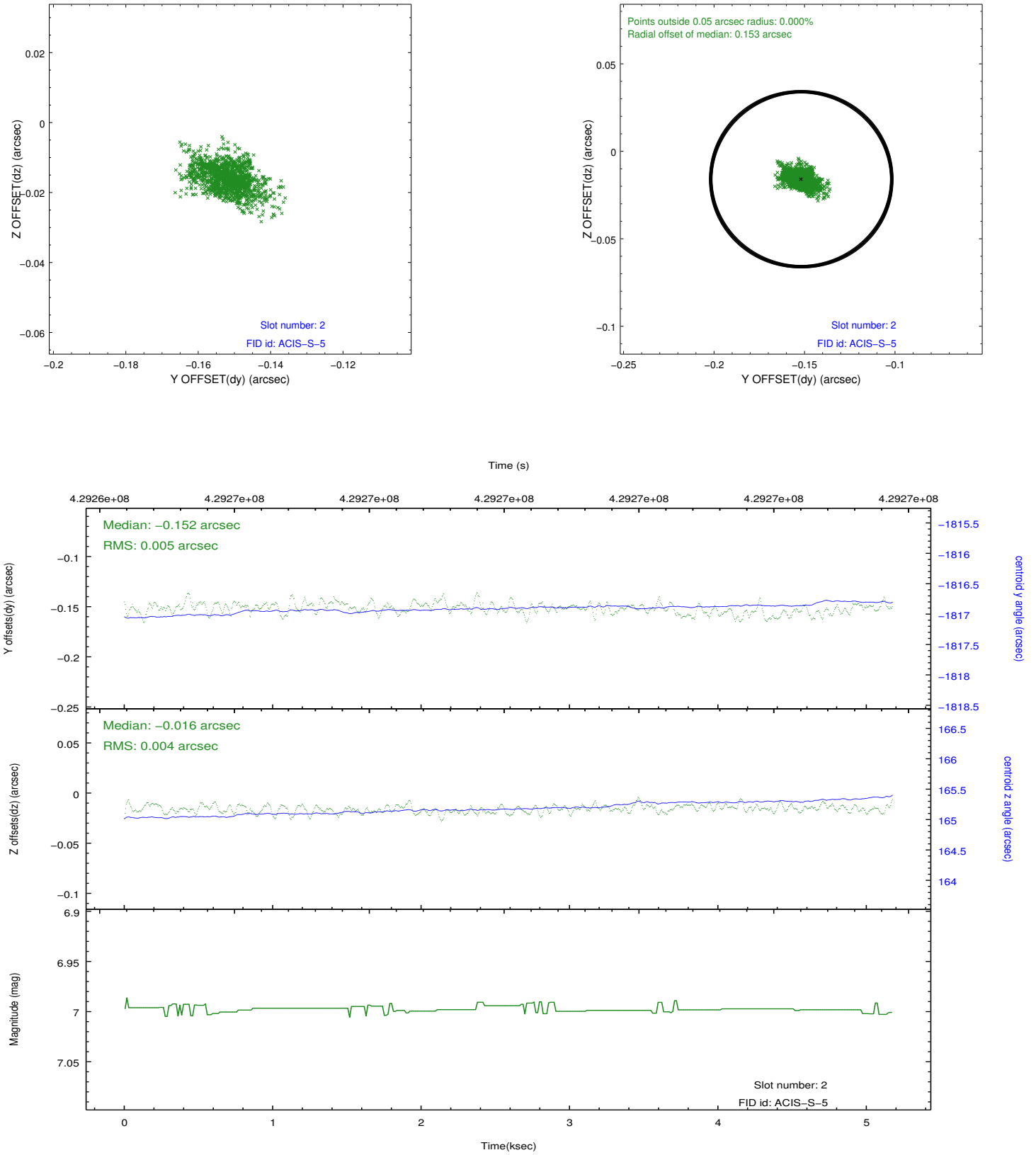
2.5.1 Slot 0



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)	2012.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0950407674909

A.2 Comments