

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9688 - L2 Version 2
Chandra X-Ray Center

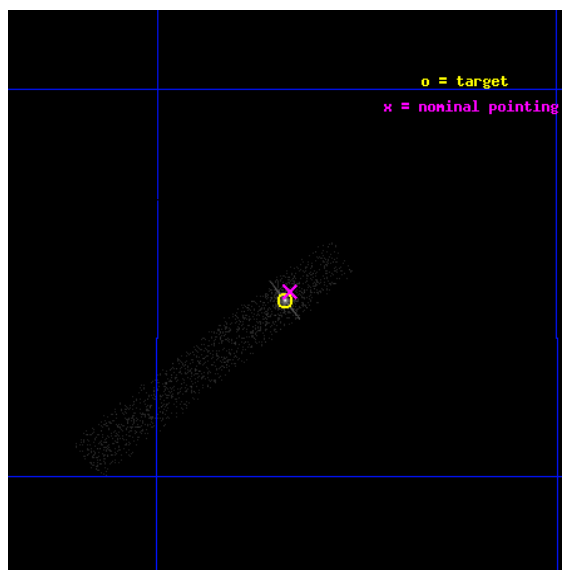
L2 Processing Date : May 18 2012

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

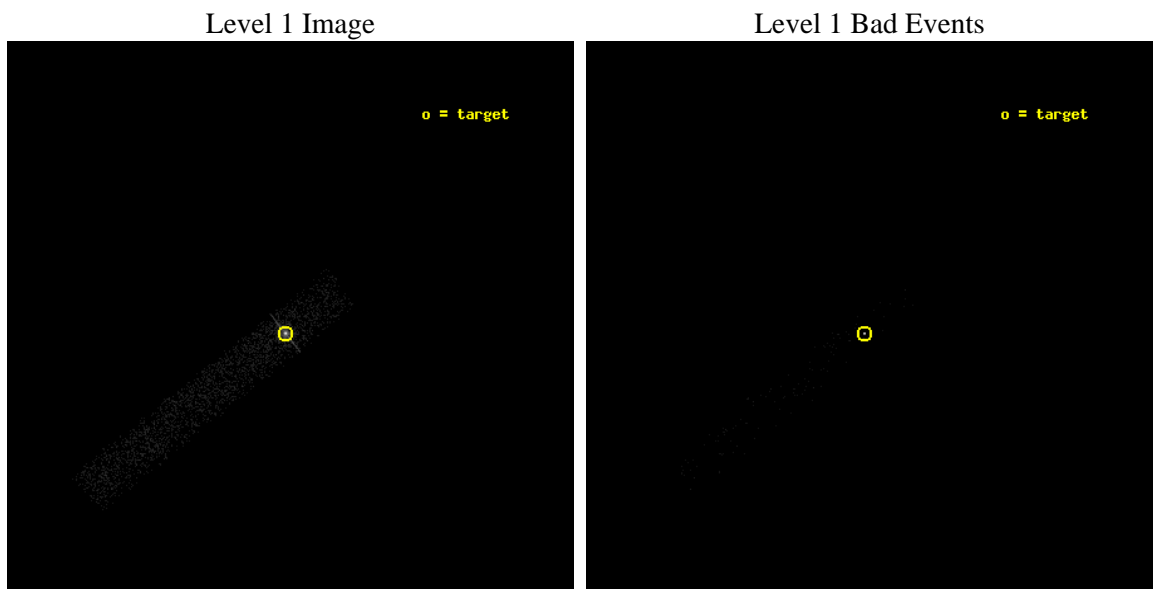
seq_num	290811	Sequence number
obs_id	9688	Observation id
title	AO9 Calibration Observations to Measure the Relative Alignment of the 4 Focal Plane Detectors	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16705289879	Nominal RA [deg]
dec_nom	45.746042360677	Nominal Dec [deg]
roll_nom	141.45874594935	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3009.5998206139	Sum of GTIs [s]
livetime	2729.5481775928	Livetime [s]
ontime7	3009.5998206139	Sum of GTIs [s]
l2events	7144	Number of level 2 events



2 OBI

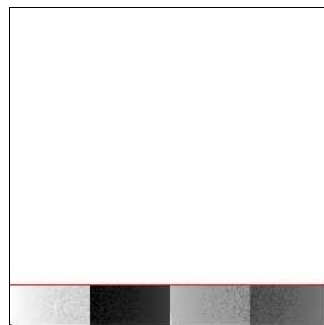
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3009.5998206139	Sum of GTIs [s]
caldsver	4.4.9	 	ontime7	3009.5998206139	Sum of GTIs [s]
date	2012-05-18T02:42:45	Date and time of file creation	l1events	12275	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

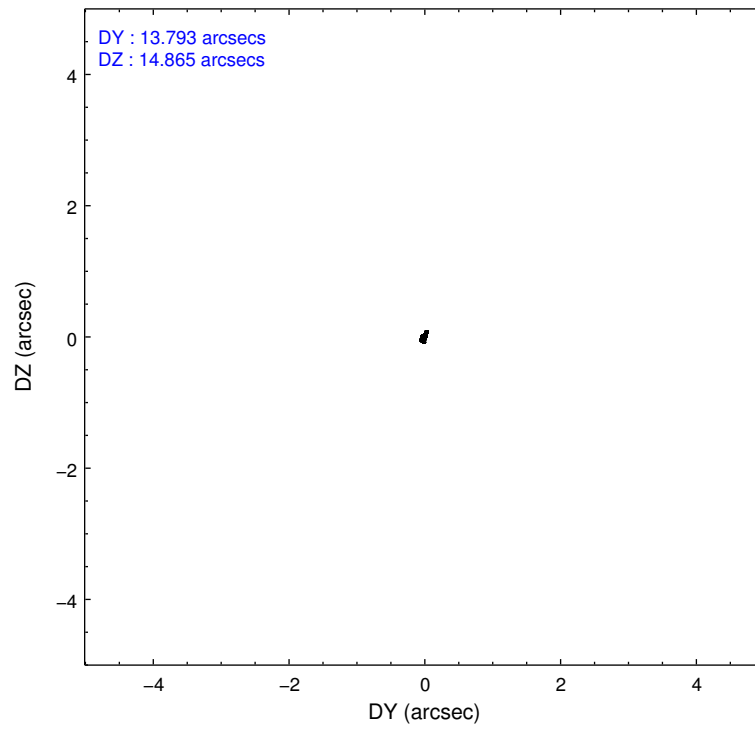
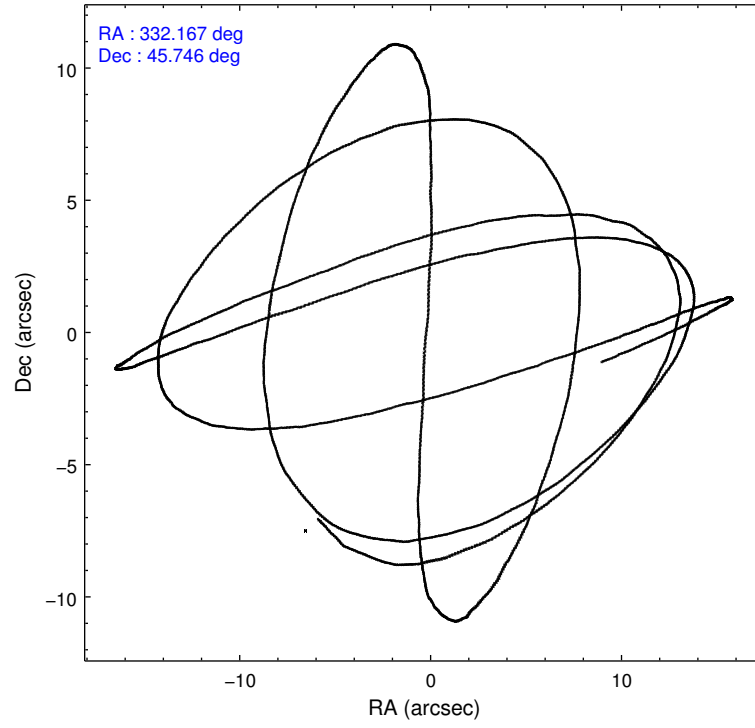
	ccd 7
level 1 events	12275
rejected events	5083
rejected %	41%

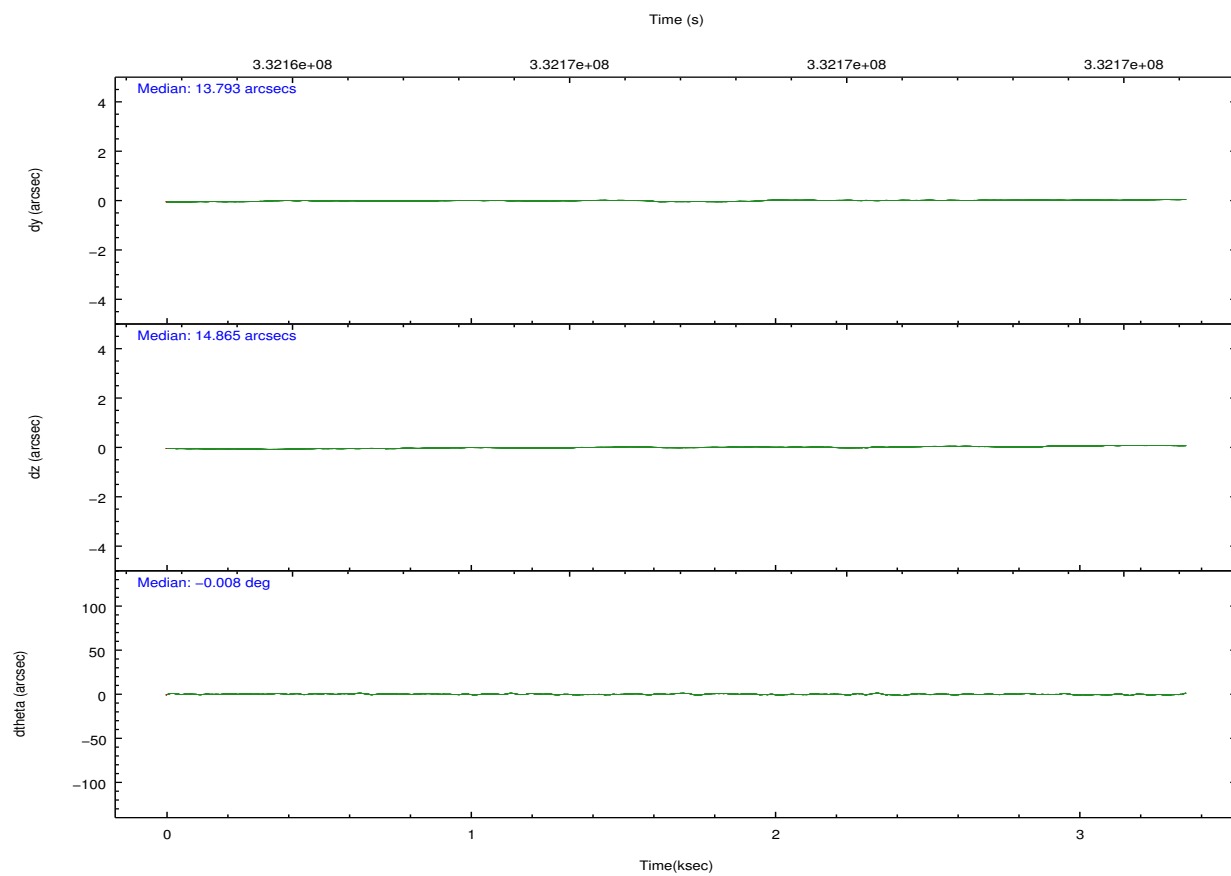
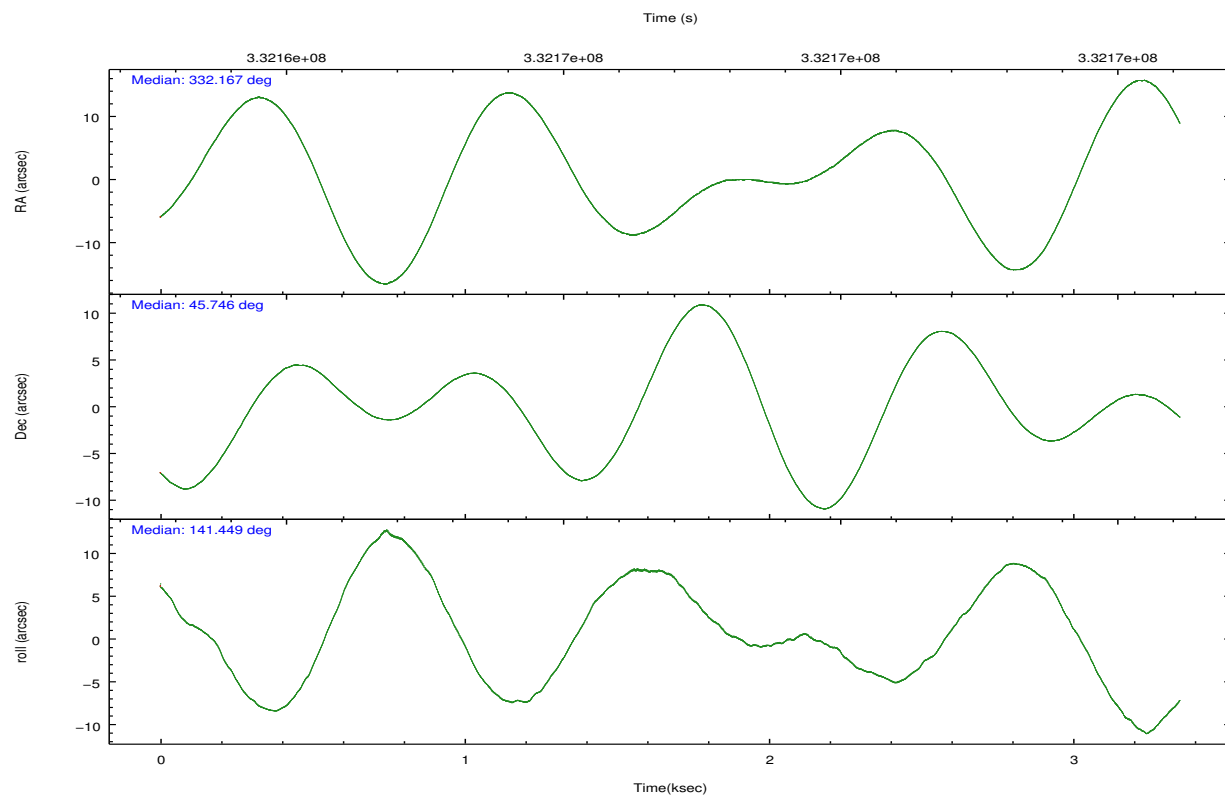
	ccd 7
grade 0 events	1100
	8%
grade 1 events	146
	1%
grade 2 events	1440
	11%
grade 3 events	768
	6%
grade 4 events	662
	5%
grade 5 events	1191
	9%
grade 6 events	3225
	26%
grade 7 events	3743
	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	332.205657	332.1670528987932	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	45.742426	45.74604236067669	Subarray start row	9	9
[deg] Pointing Roll	141.274464	141.4587459493517	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-180.132523	-180.1230338884569			
[mm] SIM translation stage offset	-10	-10.00948869455095			
[s] Observation start time (MET)	332165053.184000	332164434.01248			
Observation start date	2008-07-11T12:03:08	2008-07-11T11:53:54			
[s] Observation end time (MET)	332168053.184000	332168187.05017			
Observation end date	2008-07-11T12:53:08	2008-07-11T12:56:27			
Read mode	TIMED	TIMED			

2.3 Aspect



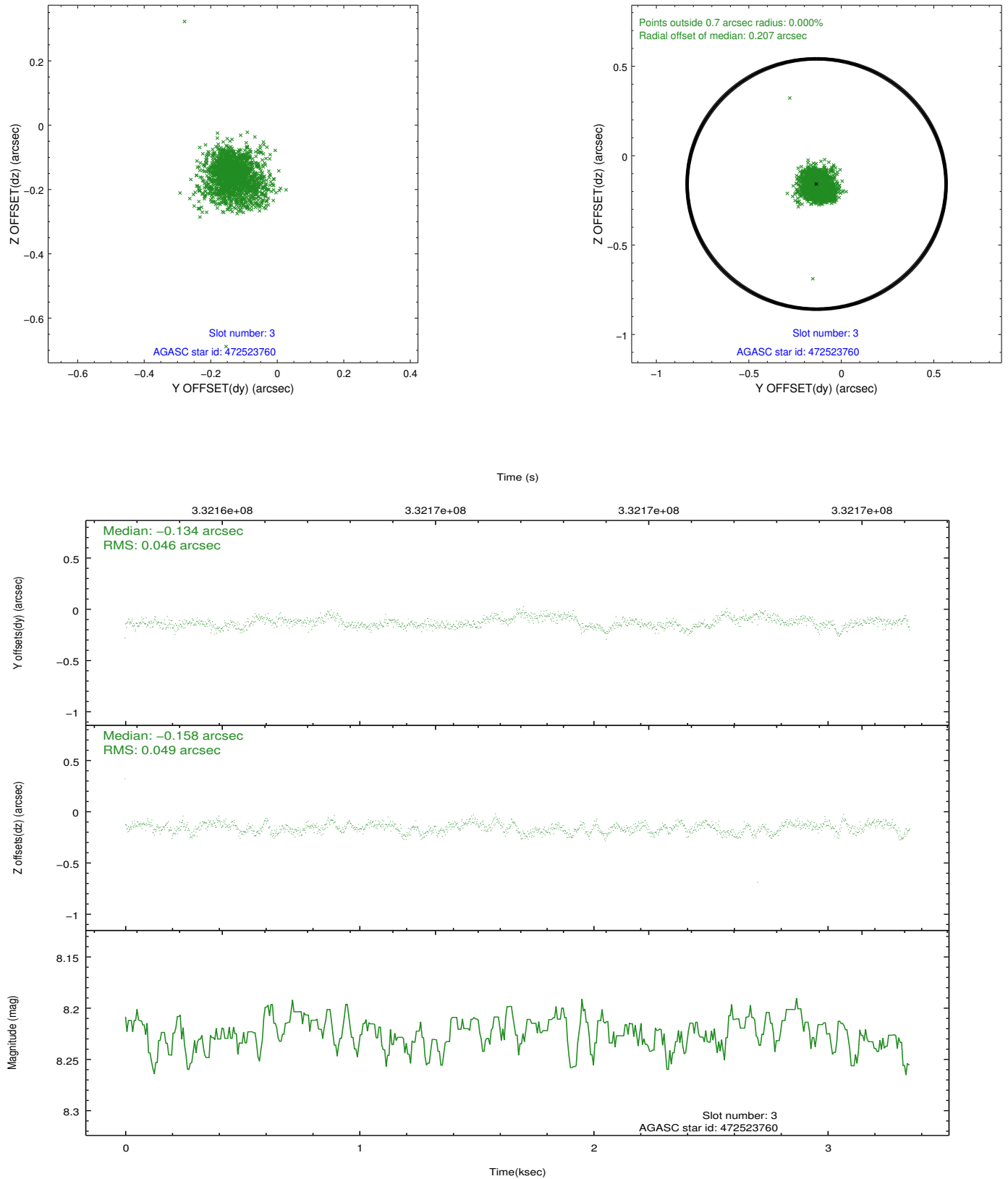


Slot Statistics

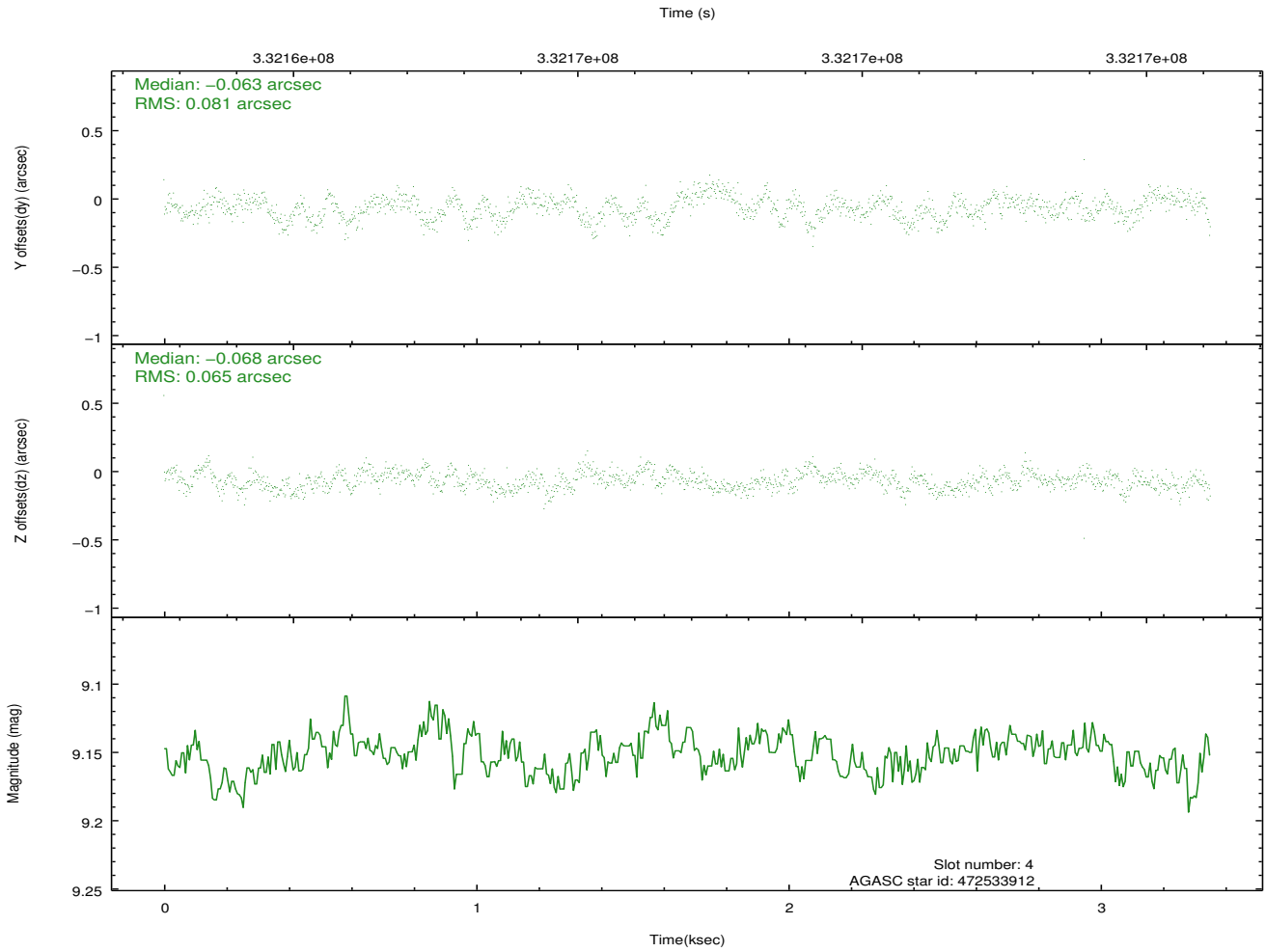
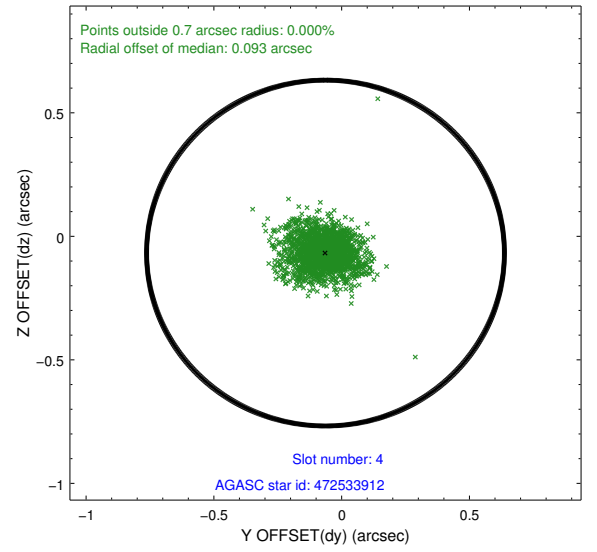
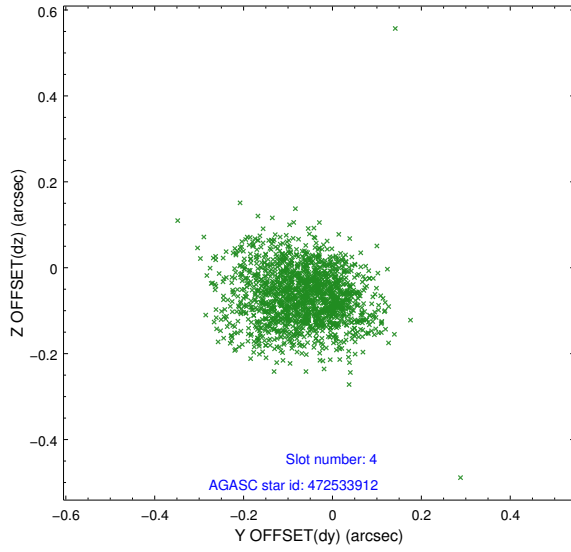
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.95	818	0.051	0.195	0.007	0.012	0.000000	0.000000	930.20	-1937.74
1	FID	ACIS-S-2	6.85	817	-0.181	-0.169	0.006	0.011	0.000000	0.000000	-764.89	-1944.95
2	FID	ACIS-S-6	7.16	818	0.110	-0.022	0.006	0.011	0.000000	0.000000	394.93	601.12
3	GUIDE	472523760	8.22	1636	-0.134	-0.158	0.069	0.114	331.645363	45.403260	344.64	1835.00
4	GUIDE	472533912	9.15	1635	-0.063	-0.068	0.106	0.181	331.791136	46.368695	2216.70	-1115.10
5	GUIDE	472654568	9.41	1633	0.046	-0.086	0.090	0.152	332.194449	45.063576	-1504.65	1923.77
6	GUIDE	472655152	9.43	1636	0.199	0.004	0.107	0.175	332.504239	45.862991	-311.34	-806.47
7	GUIDE	472665256	9.02	1633	-0.048	0.315	0.084	0.136	332.808125	46.195041	-147.34	-2214.68

2.4 Star Slots

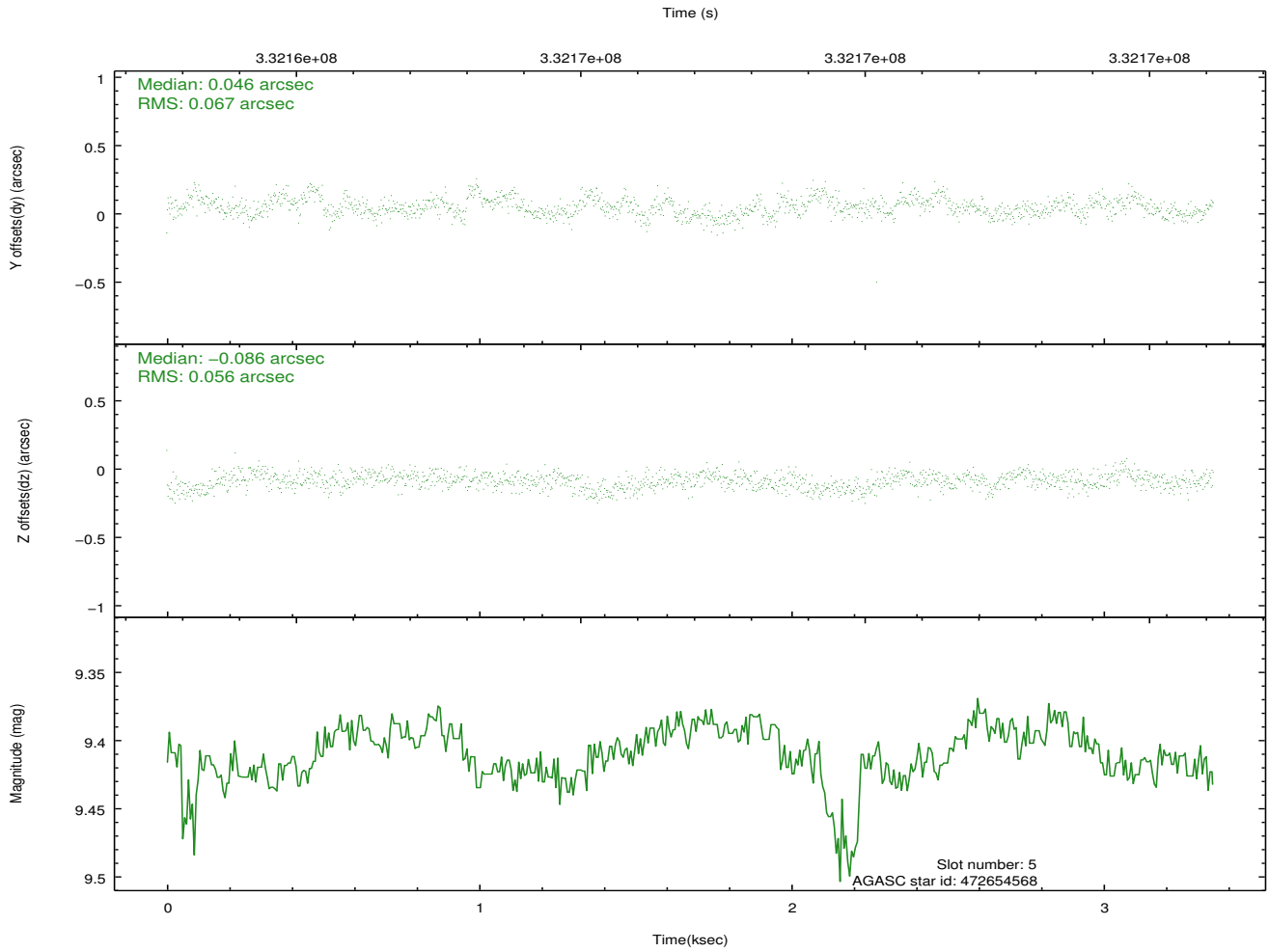
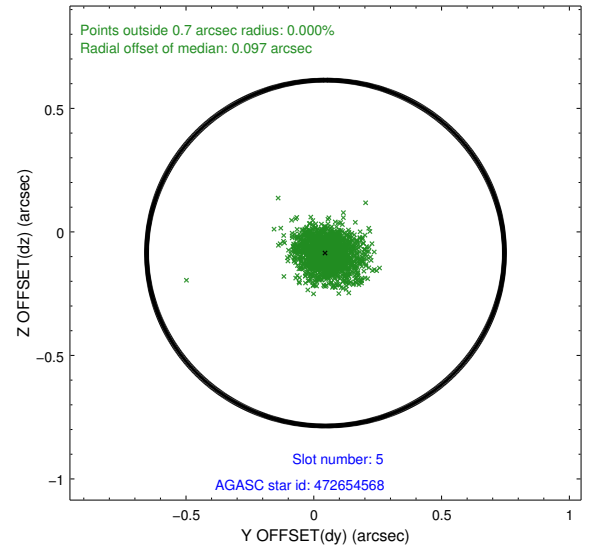
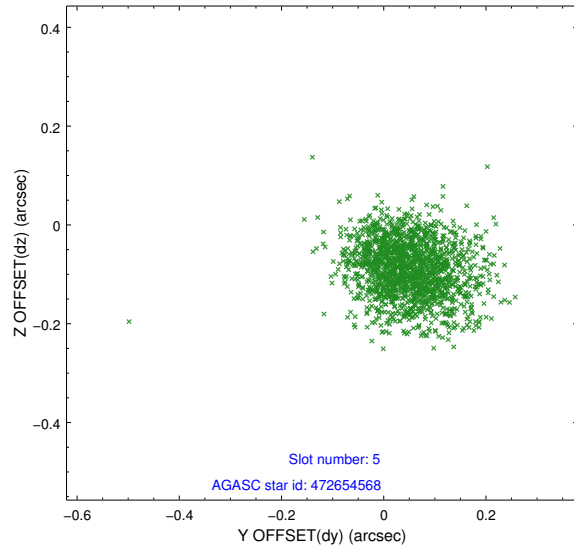
2.4.1 Slot 3



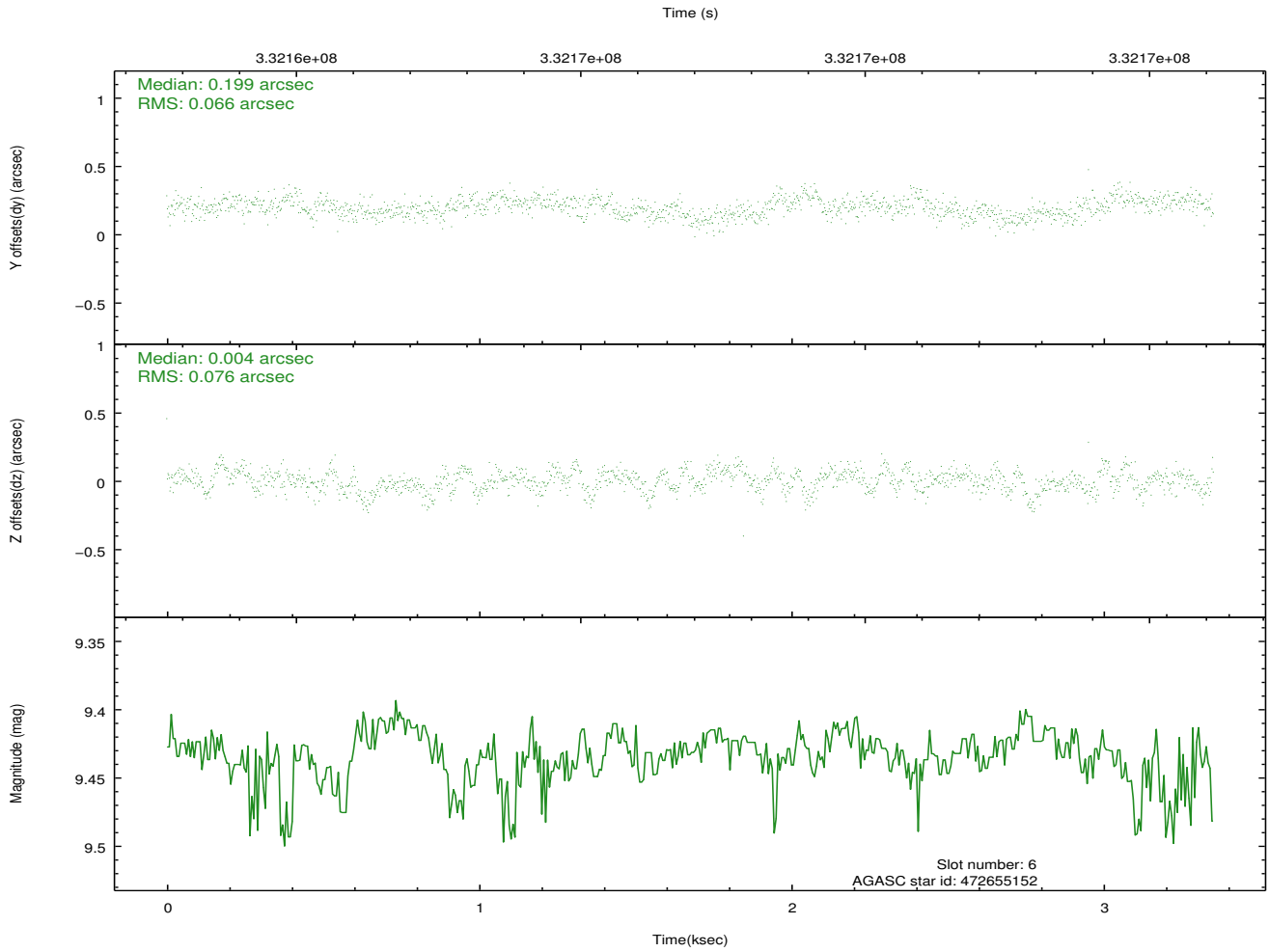
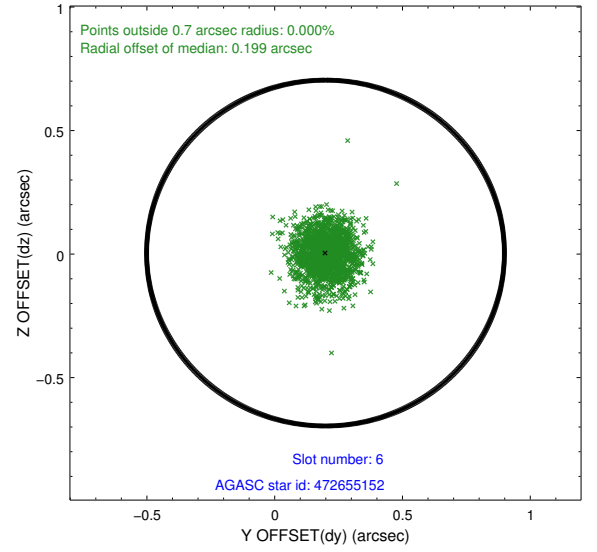
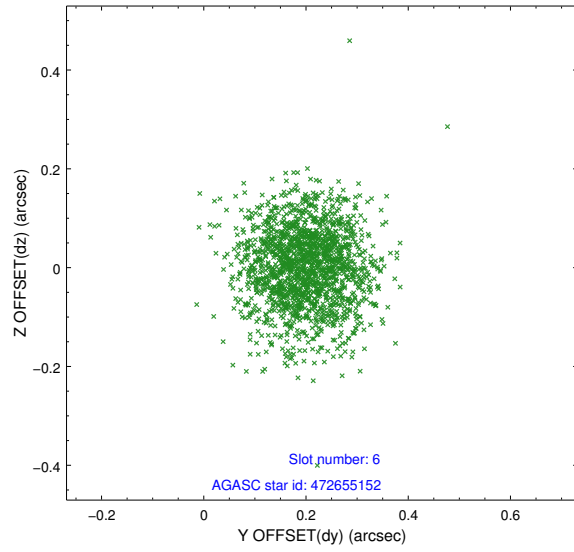
2.4.2 Slot 4



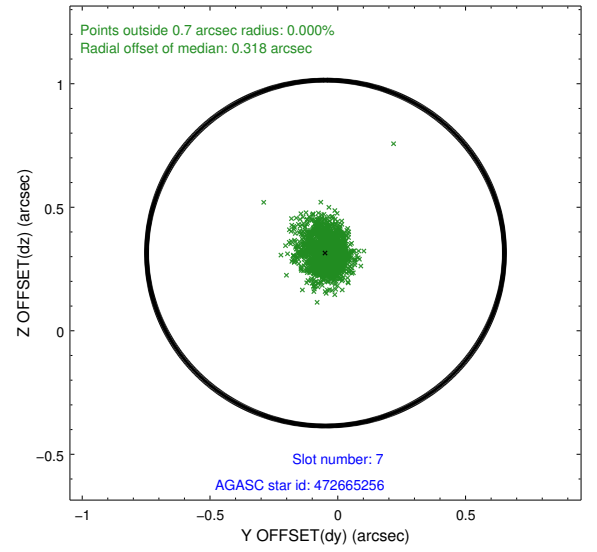
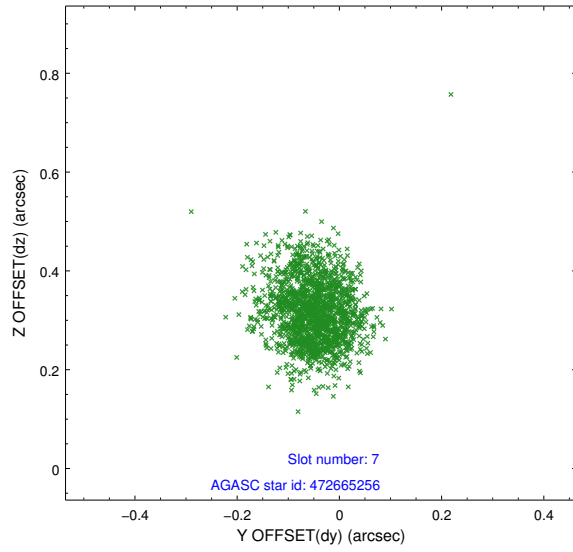
2.4.3 Slot 5



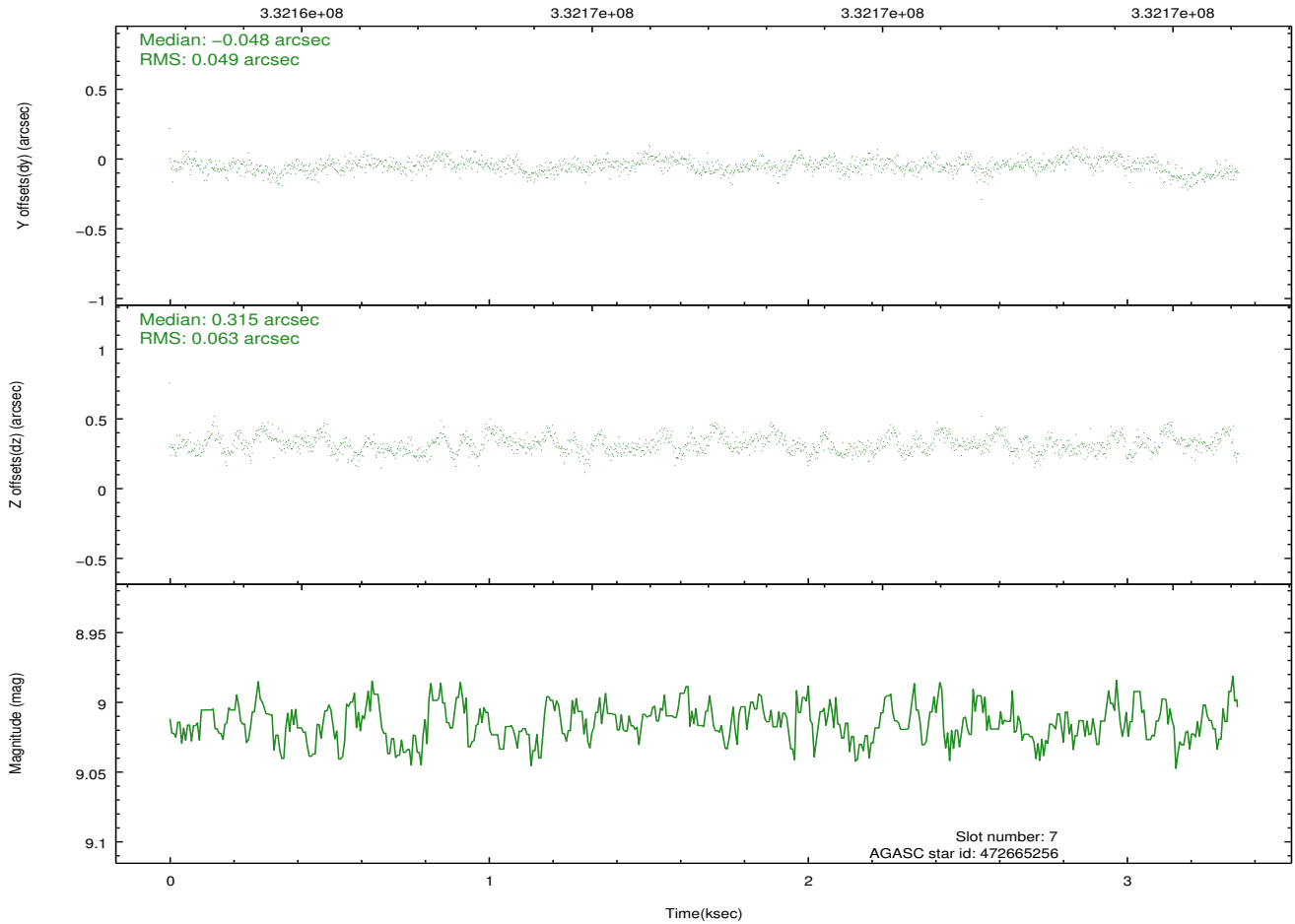
2.4.4 Slot 6



2.4.5 Slot 7

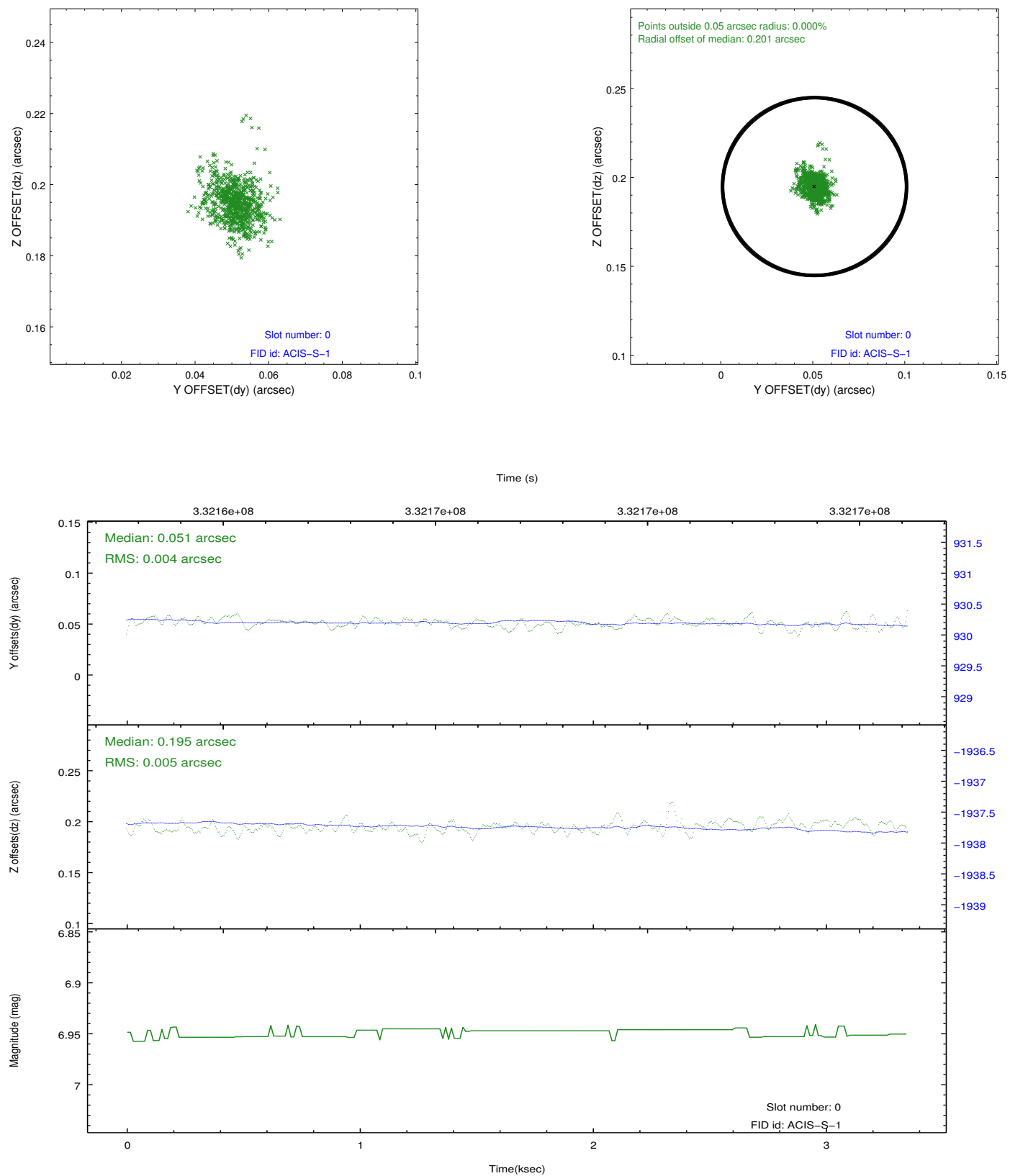


Time (s)

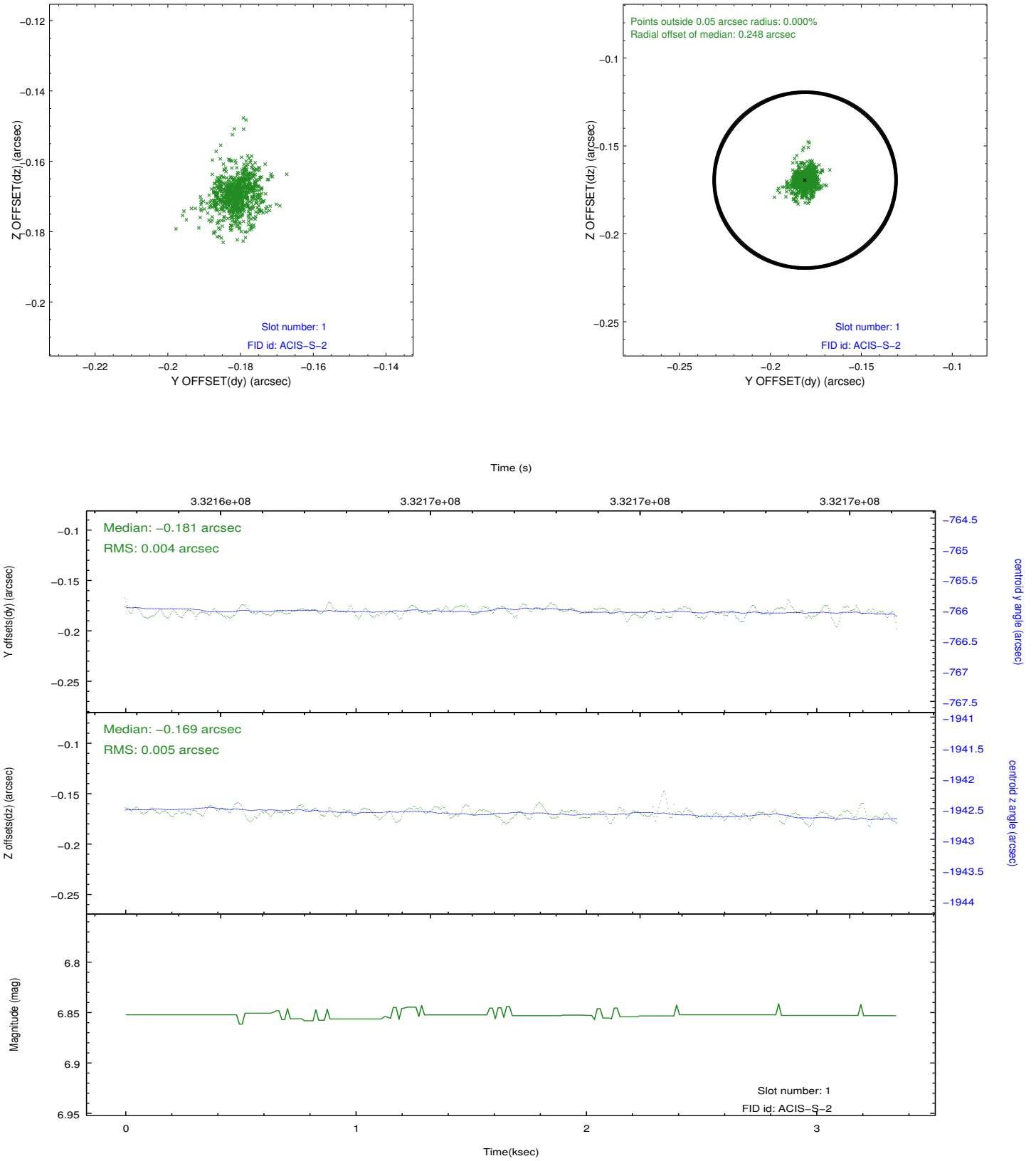


2.5 FID Slots

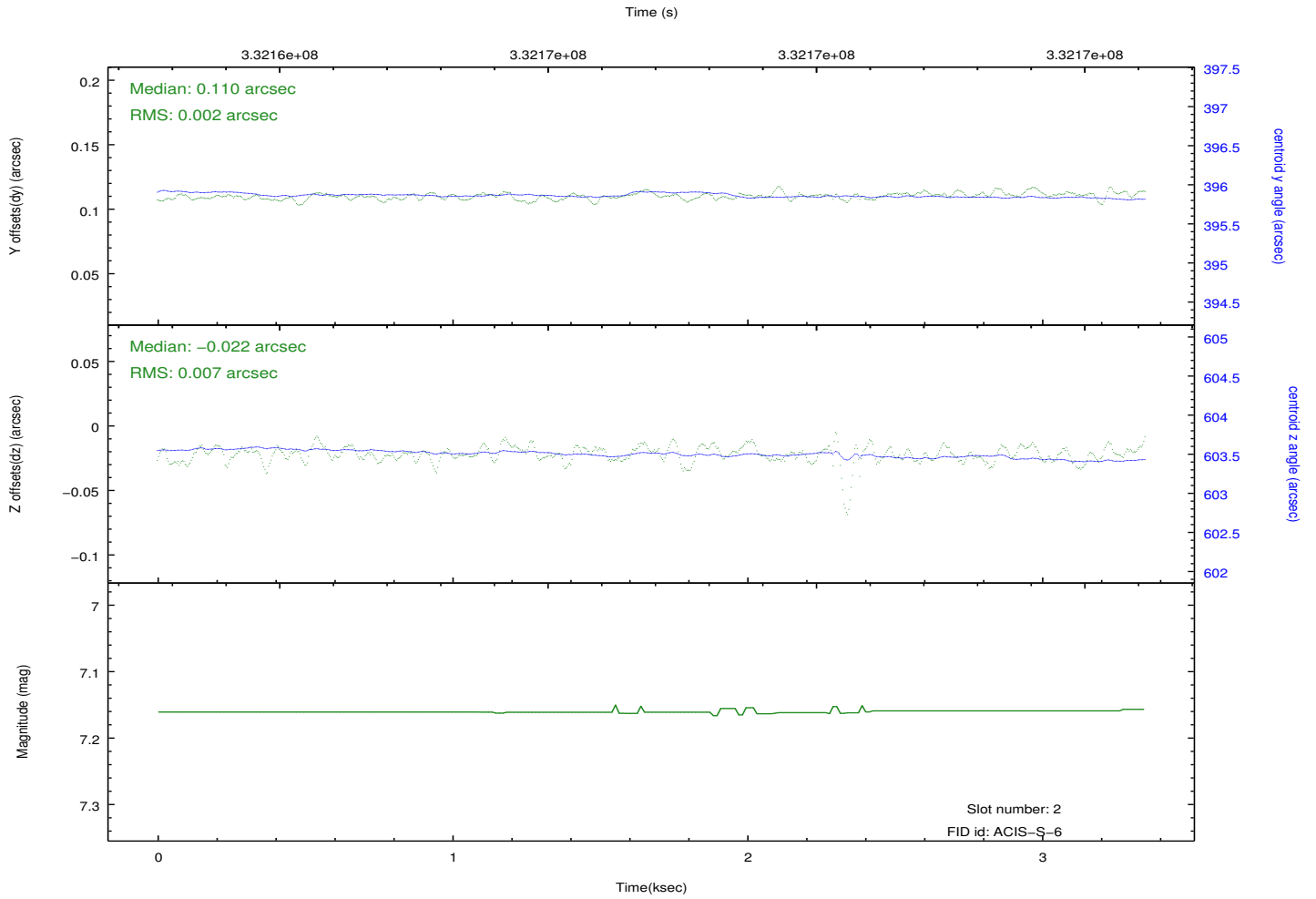
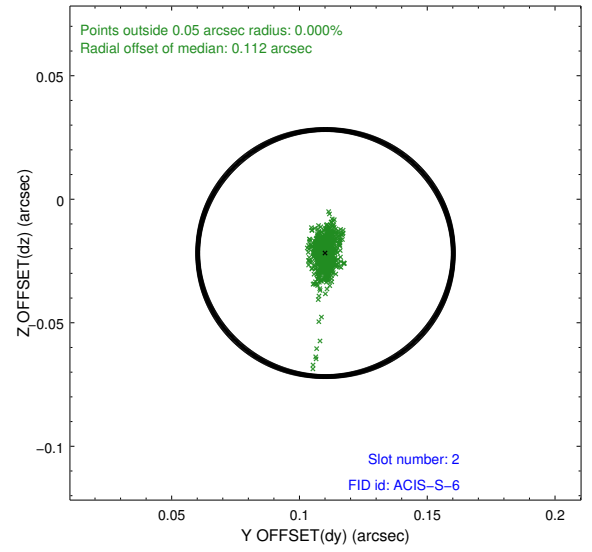
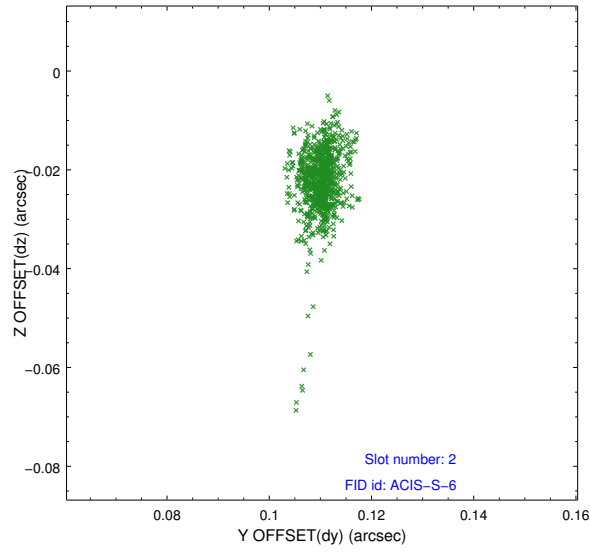
2.5.1 Slot 0



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)	2012.05.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.00959982

A.2 Comments