

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12457 - L2 Version 2
Chandra X-Ray Center

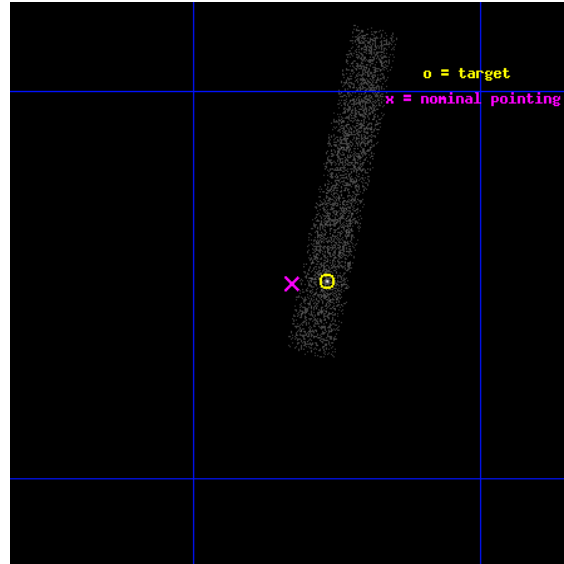
L2 Processing Date : Jul 5 2012

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1 Front

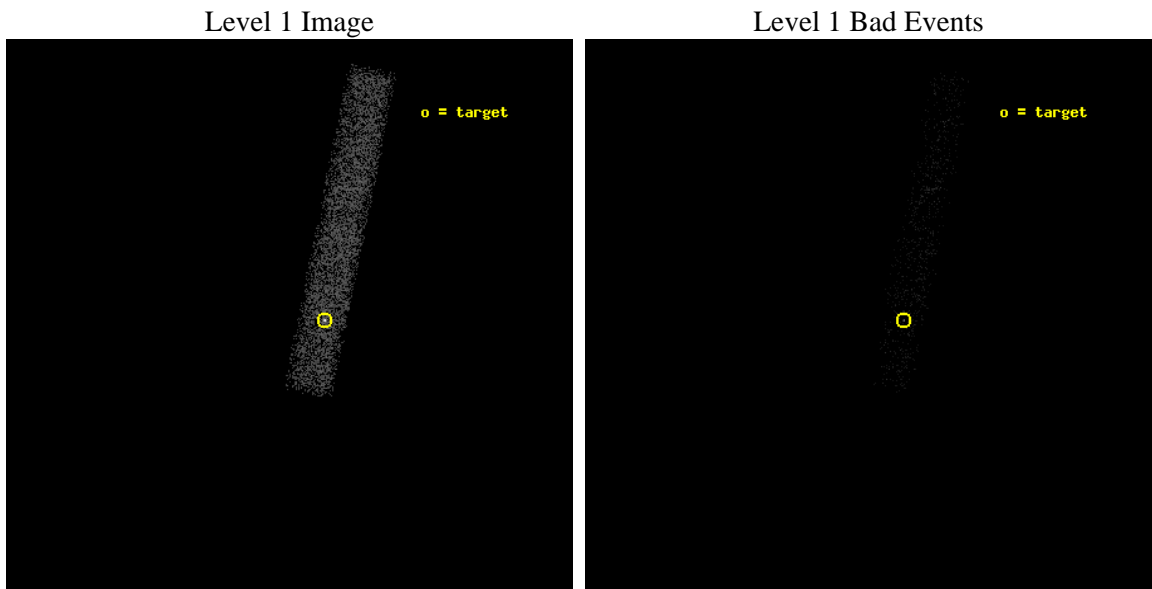
seq_num	401198	Sequence number
obs_id	12457	Observation id
title	Confirmation and Study of a Newly Discovered Nuclear Reaction, Identified in the Neutron Star Crust	Proposal title
observer	Prof. Robert Rutledge	Principal investigator
object	Aql X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.816667	Observer's specified target RA [deg]
dec_targ	0.584944	Observer's specified target Dec [deg]
ra_nom	287.83225501633	Nominal RA [deg]
dec_nom	0.58380043374512	Nominal Dec [deg]
roll_nom	281.4470590789	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7010.7682592869	Sum of GTIs [s]
livetime	6358.3967524822	Livetime [s]
ontime7	7010.7682592869	Sum of GTIs [s]
l2events	5957	Number of level 2 events



2 OBI

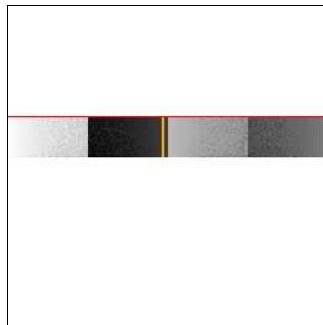
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7010.7682592869	Sum of GTIs [s]
caldsver	4.5.0	 	ontime7	7010.7682592869	Sum of GTIs [s]
date	2012-07-05T07:13:19	Date and time of file creation	l1events	10284	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

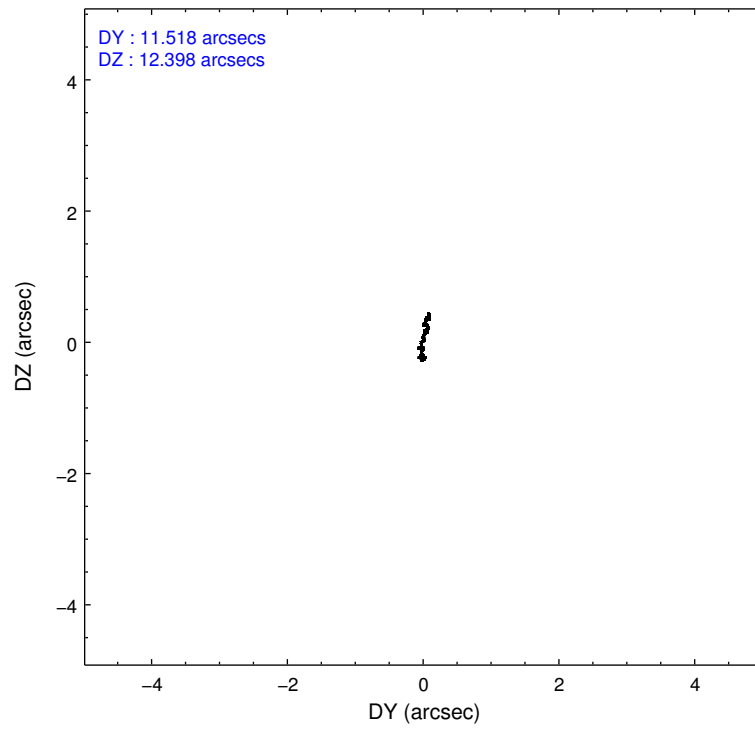
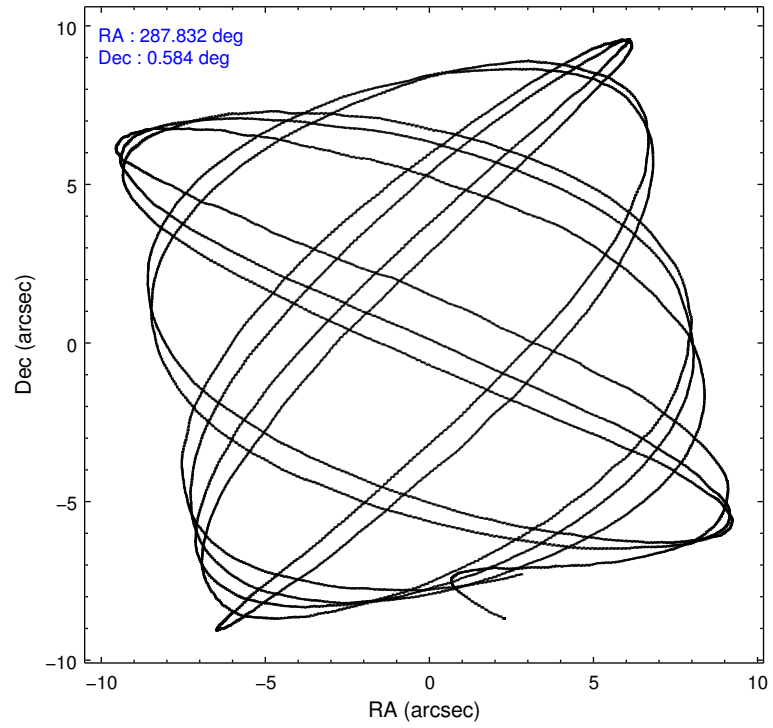
	ccd 7
level 1 events	10284
rejected events	4137
rejected %	40%

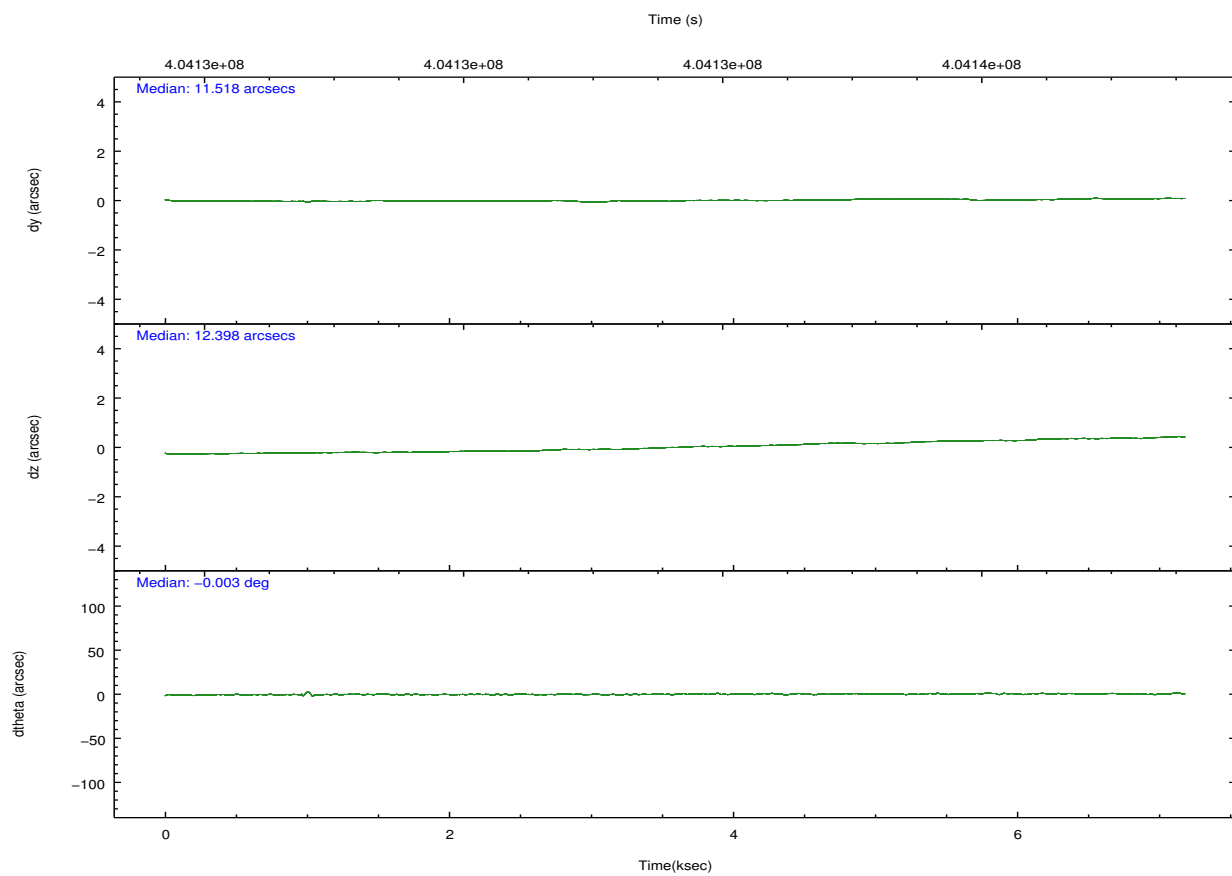
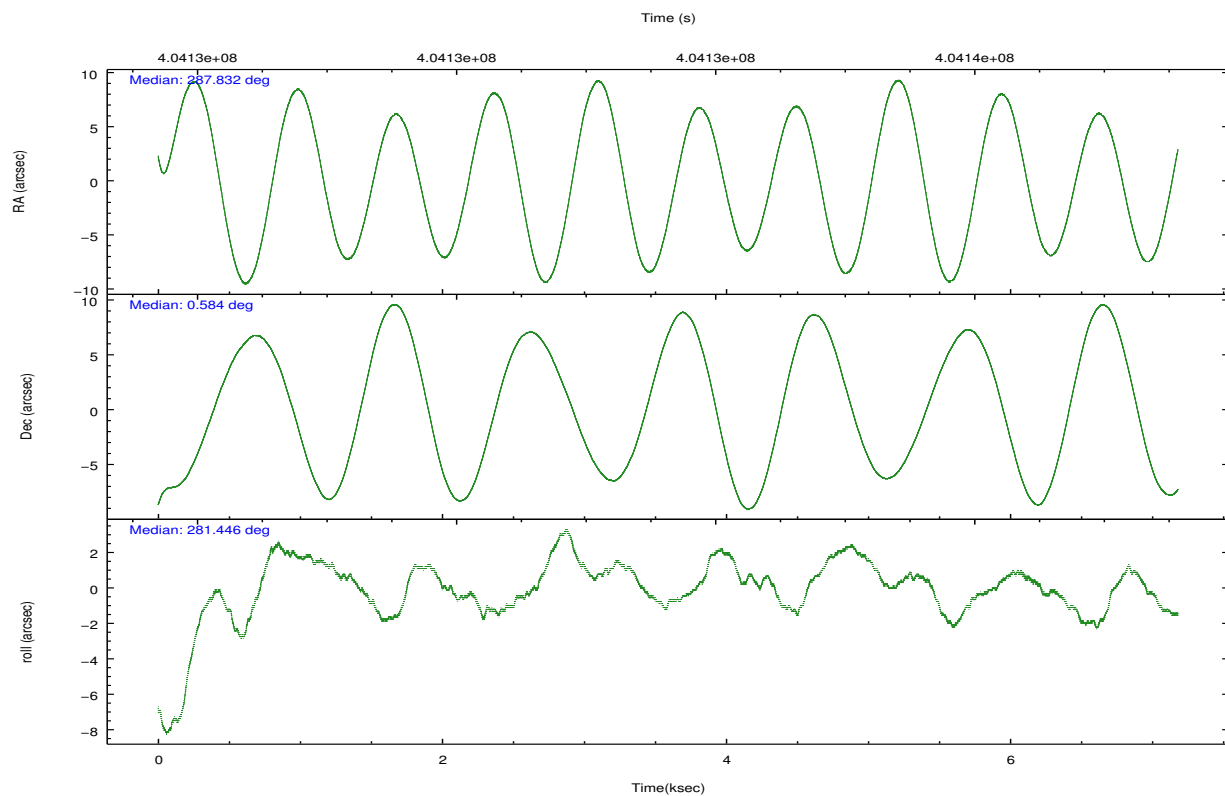
	ccd 7
grade 0 events	980
	9%
grade 1 events	14
	0%
grade 2 events	1310
	12%
grade 3 events	820
	7%
grade 4 events	803
	7%
grade 5 events	869
	8%
grade 6 events	2234
	21%
grade 7 events	3254
	31%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	287.813857	287.832255016326	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	0.604097	0.5838004337451173	Subarray start row	544	544
[deg] Pointing Roll	281.290622	281.4470590789001	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	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	404130227.184000	404129290.20826			
Observation start date	2010-10-22T10:22:41	2010-10-22T10:08:10			
[s] Observation end time (MET)	404137227.184000	404138161.07122			
Observation end date	2010-10-22T12:19:21	2010-10-22T12:36:01			
Read mode	TIMED	TIMED			

2.3 Aspect



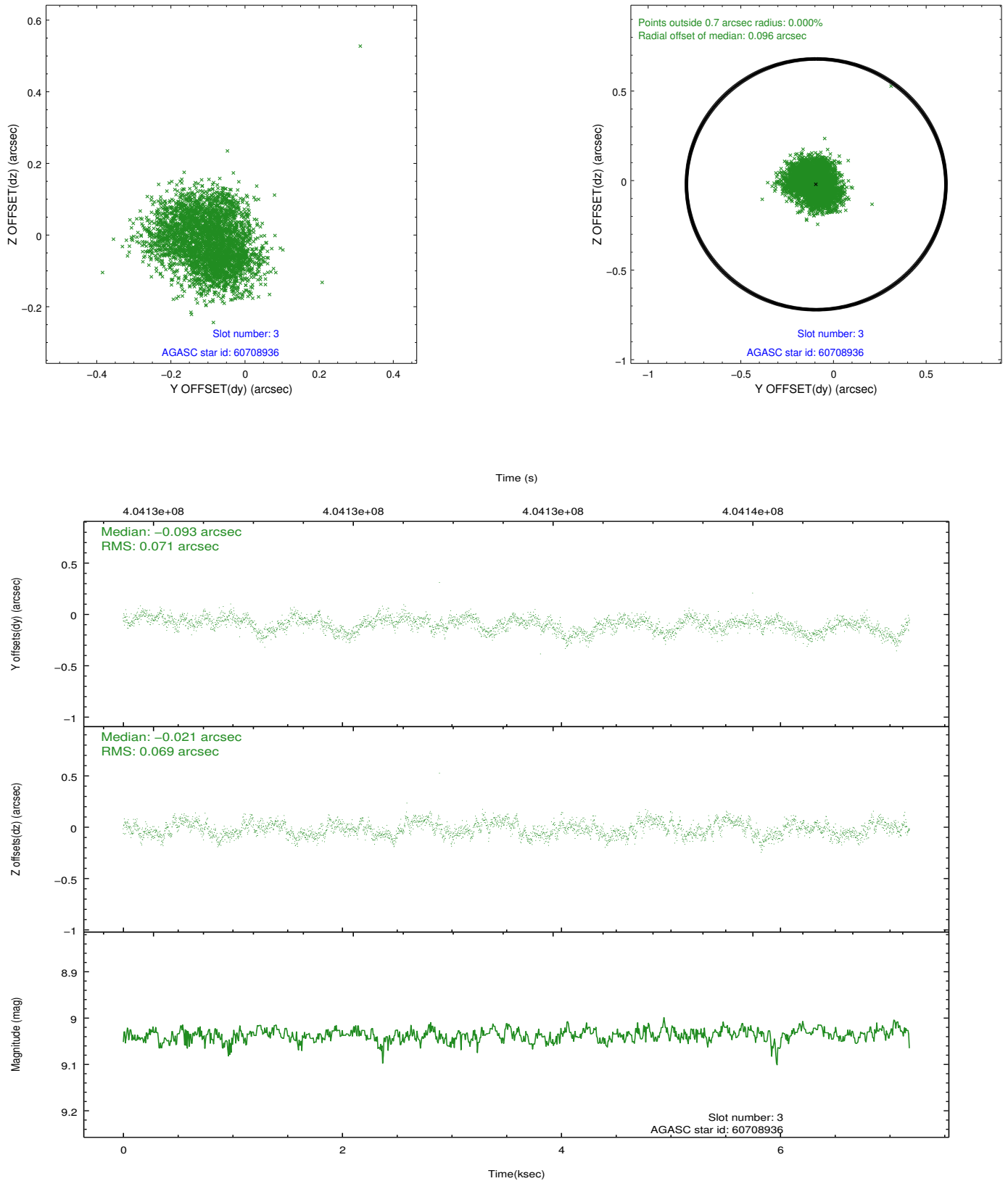


Slot Statistics

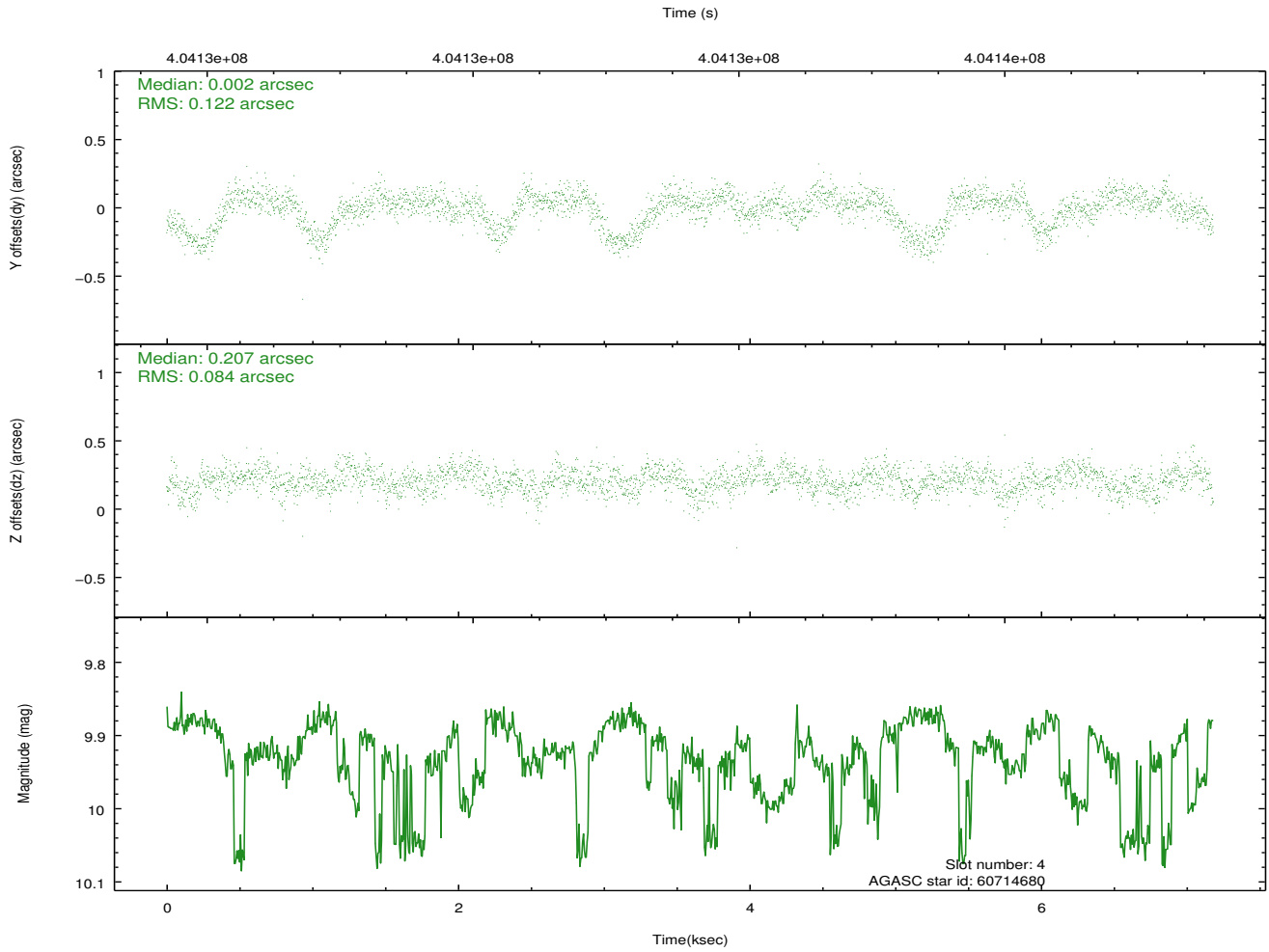
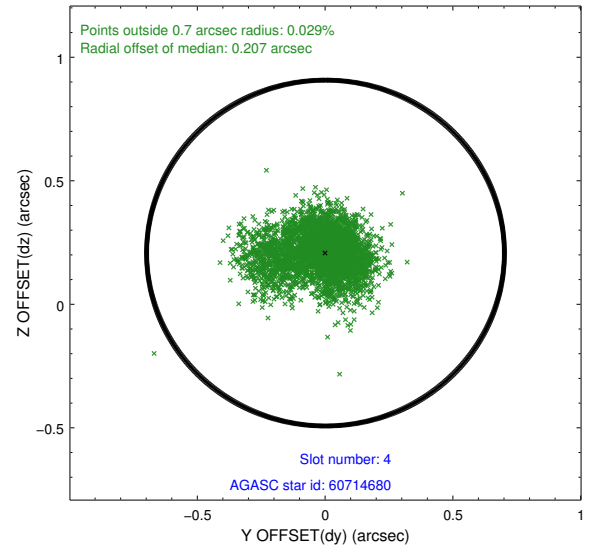
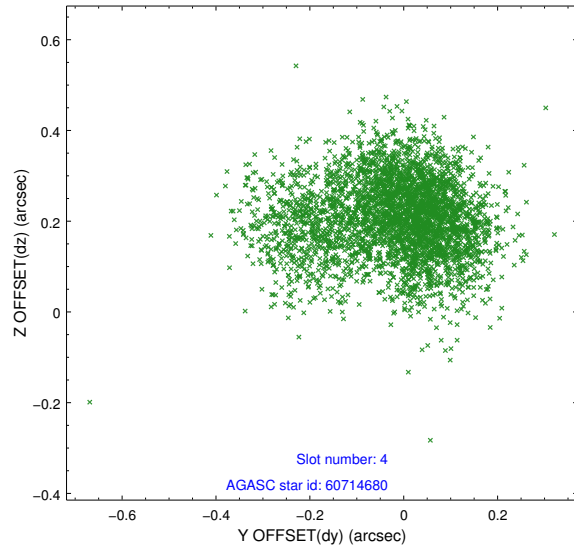
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.99	1752	-0.030	-0.035	0.015	0.021	0.000000	0.000000	-764.45	-1733.76
1	FID	ACIS-S-4	7.07	1752	0.125	0.024	0.011	0.017	0.000000	0.000000	2148.64	173.92
2	FID	ACIS-S-5	7.11	1752	-0.127	0.020	0.015	0.022	0.000000	0.000000	-1816.34	168.54
3	GUIDE	60708936	9.04	3501	-0.093	-0.021	0.106	0.163	287.407925	0.924863	-1418.26	-1206.80
4	GUIDE	60714680	9.93	3476	0.002	0.207	0.153	0.274	287.468055	0.176061	1267.35	-1522.57
5	GUIDE	60715360	9.19	3502	0.001	-0.014	0.111	0.168	287.763141	0.163266	1521.29	-490.11
6	GUIDE	60718872	9.36	3501	0.003	-0.085	0.121	0.195	287.679270	0.108754	1654.70	-824.41
7	GUIDE	672281216	9.31	3492	0.131	-0.088	0.123	0.194	287.454836	-0.067927	2120.46	-1741.41

2.4 Star Slots

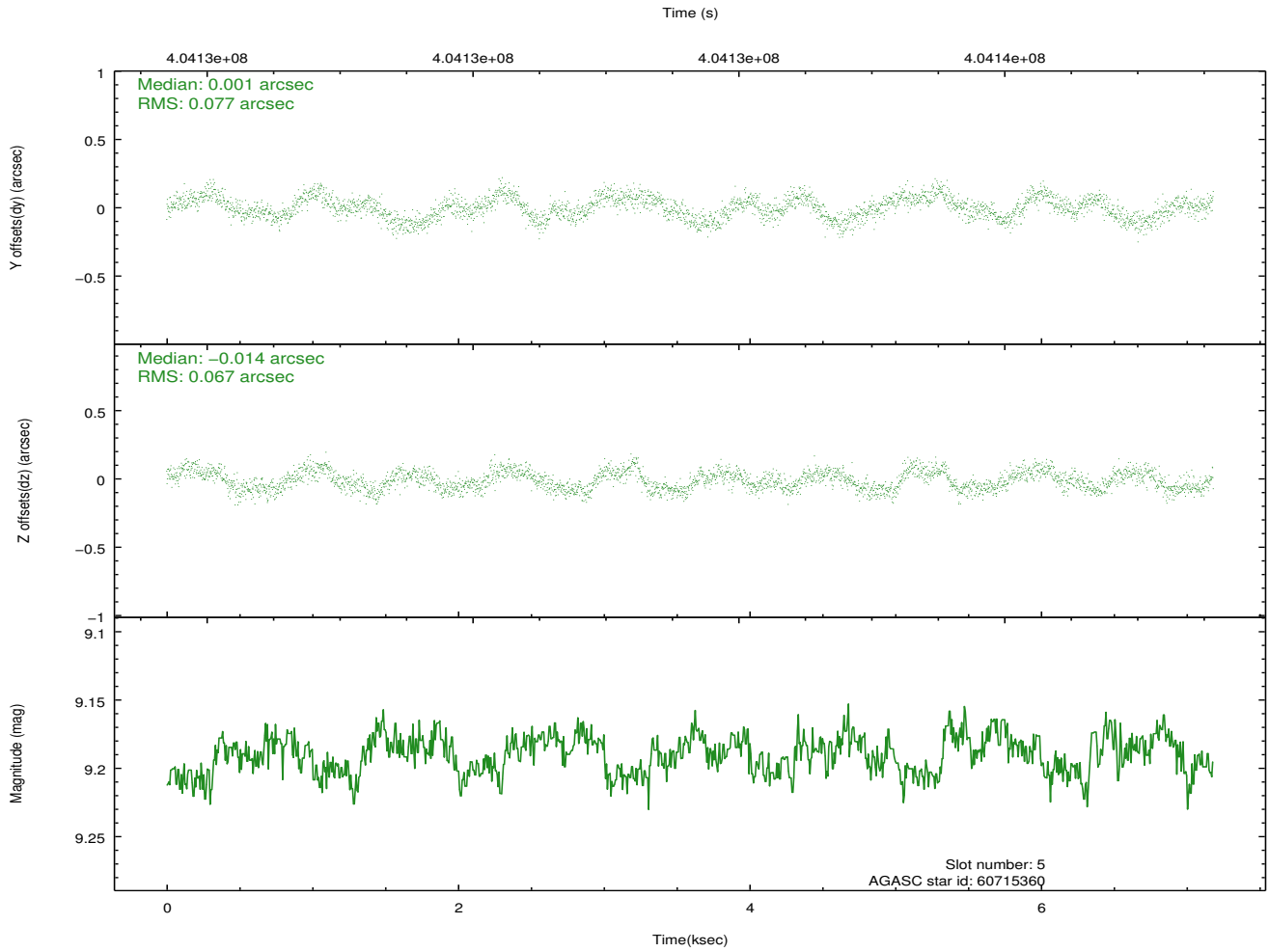
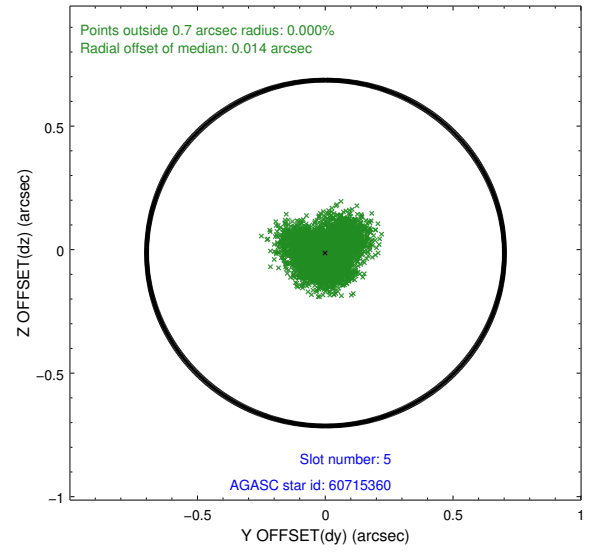
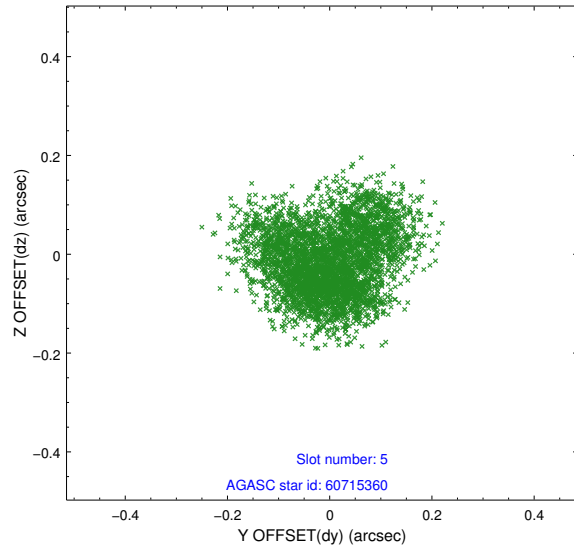
2.4.1 Slot 3



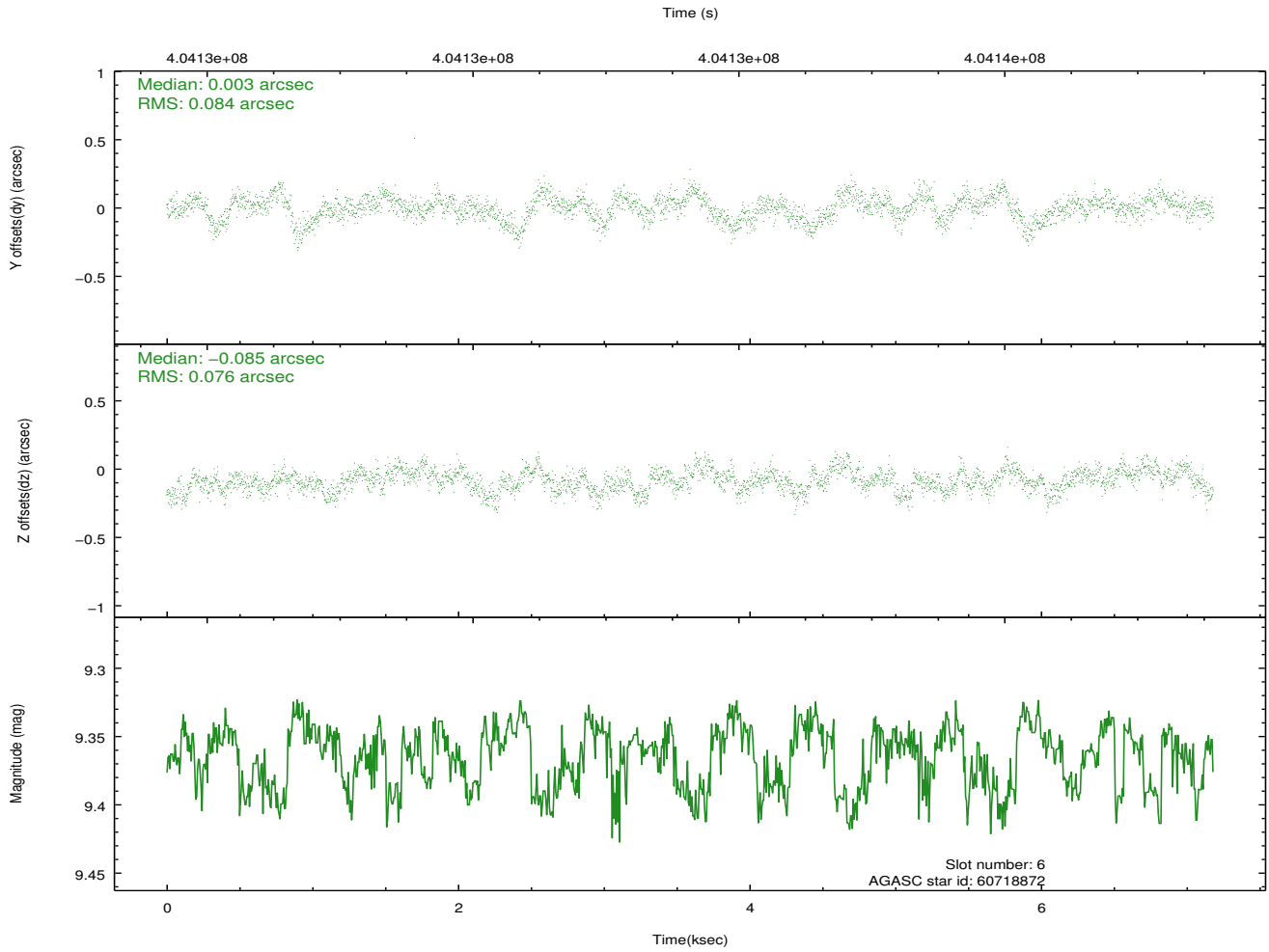
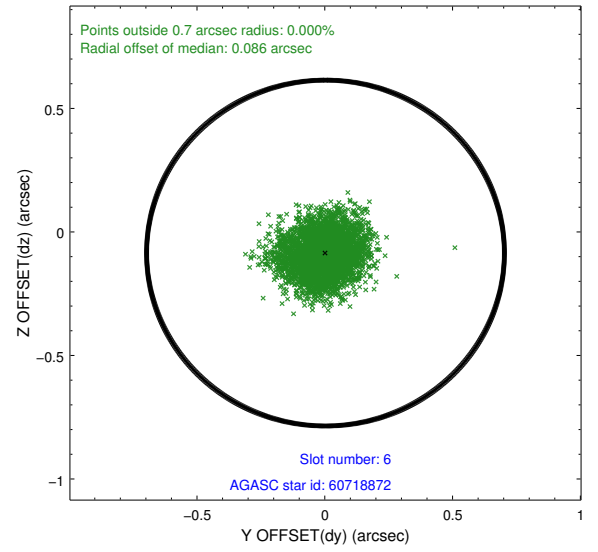
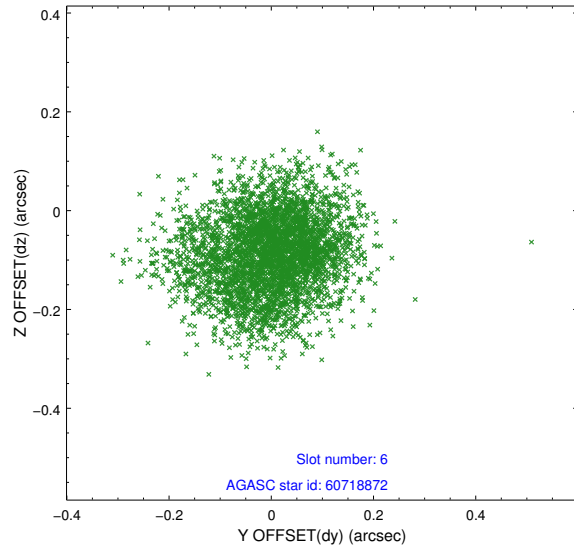
2.4.2 Slot 4



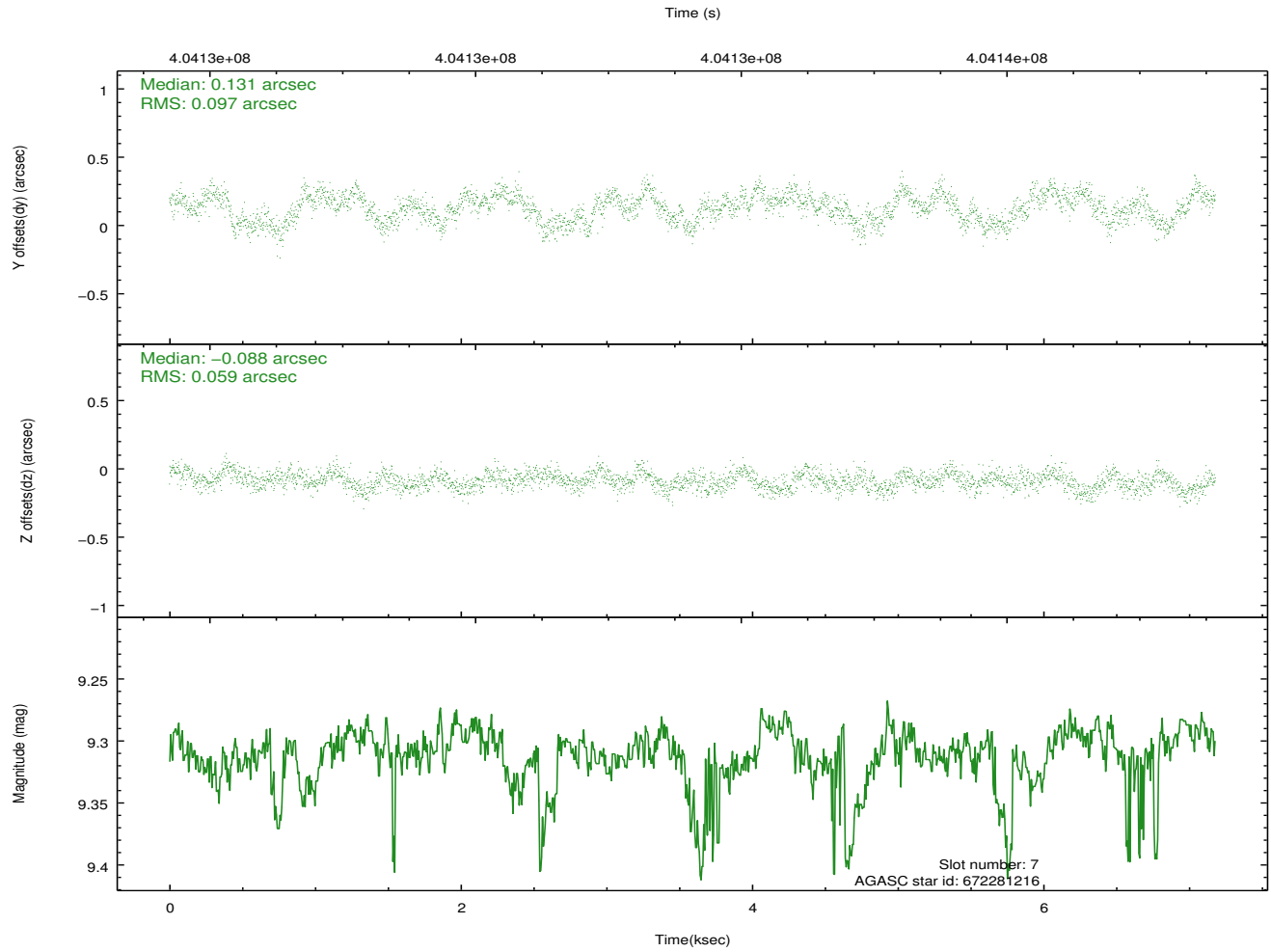
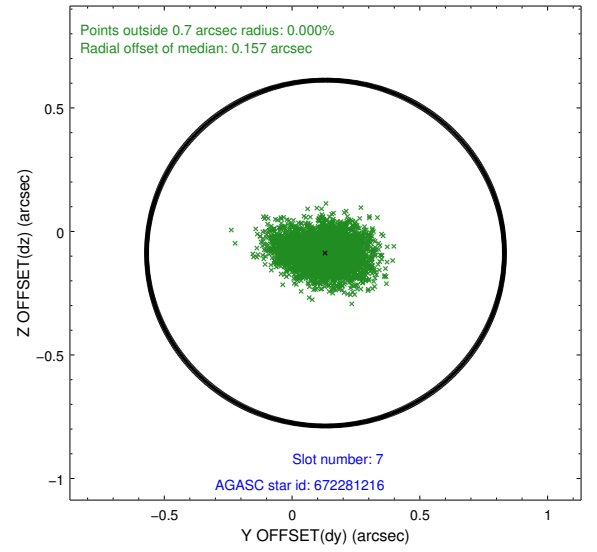
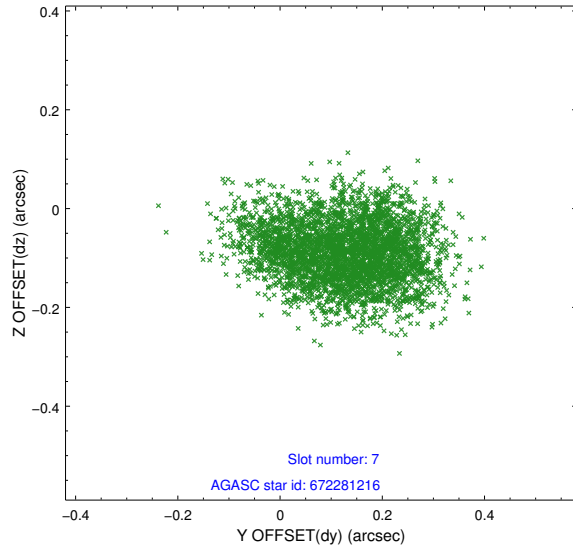
2.4.3 Slot 5



2.4.4 Slot 6

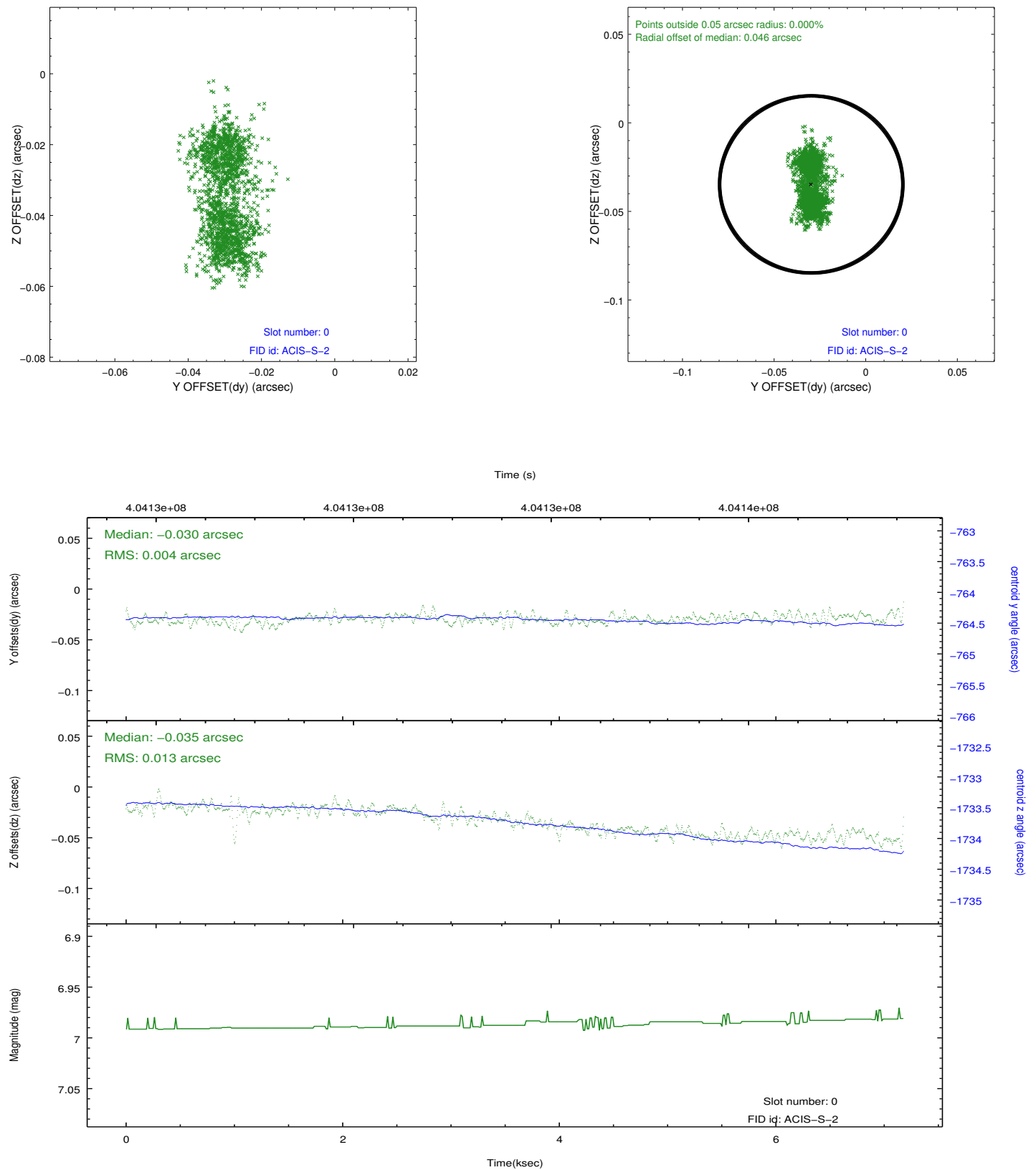


2.4.5 Slot 7

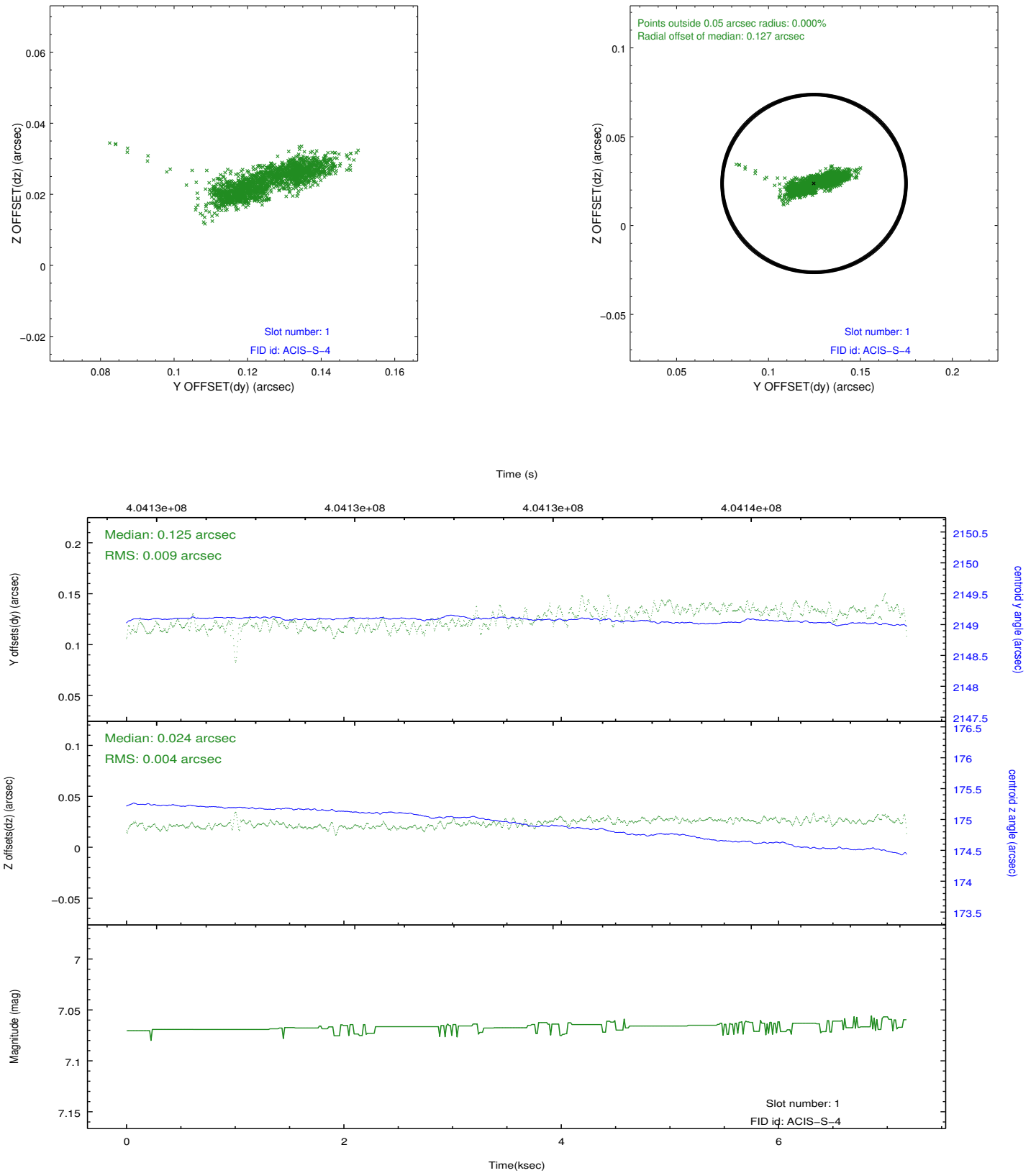


2.5 FID Slots

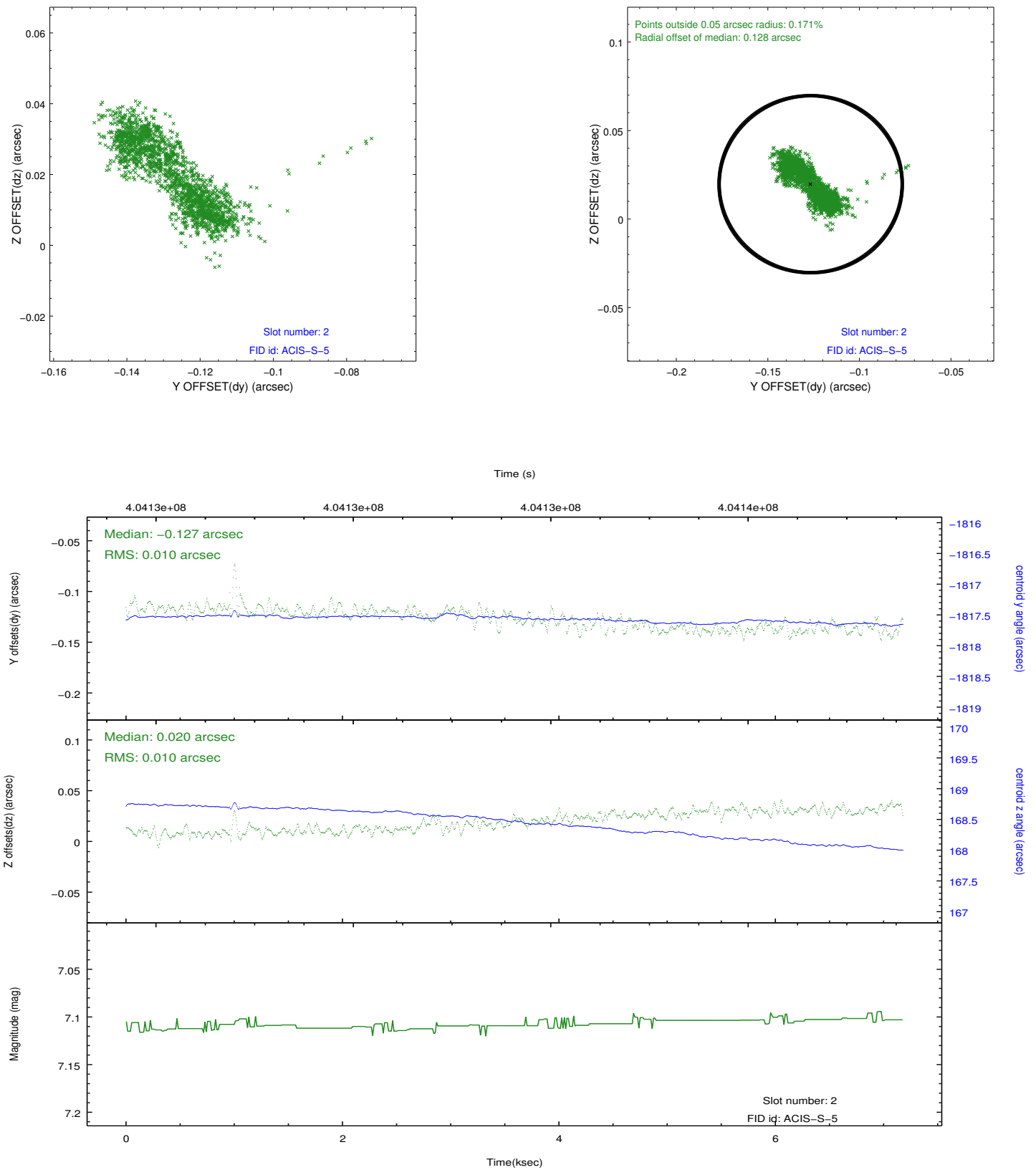
2.5.1 Slot 0



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)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0107682546973

A.2 Comments