

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18812 - L2 Version 1
Chandra X-Ray Center

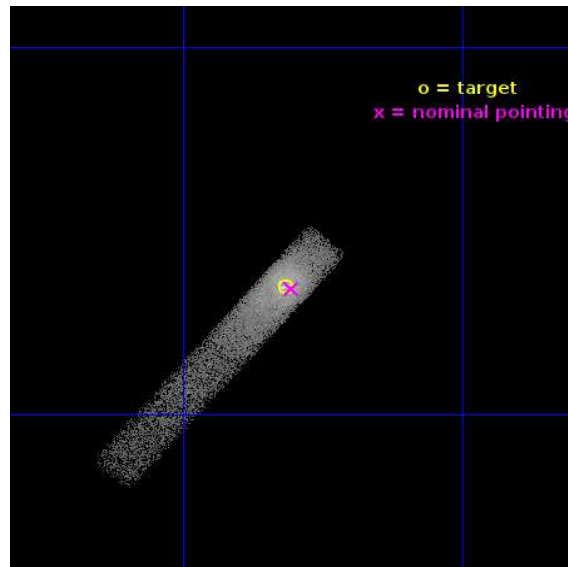
L2 Processing Date : Mar 16 2016

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1 Front

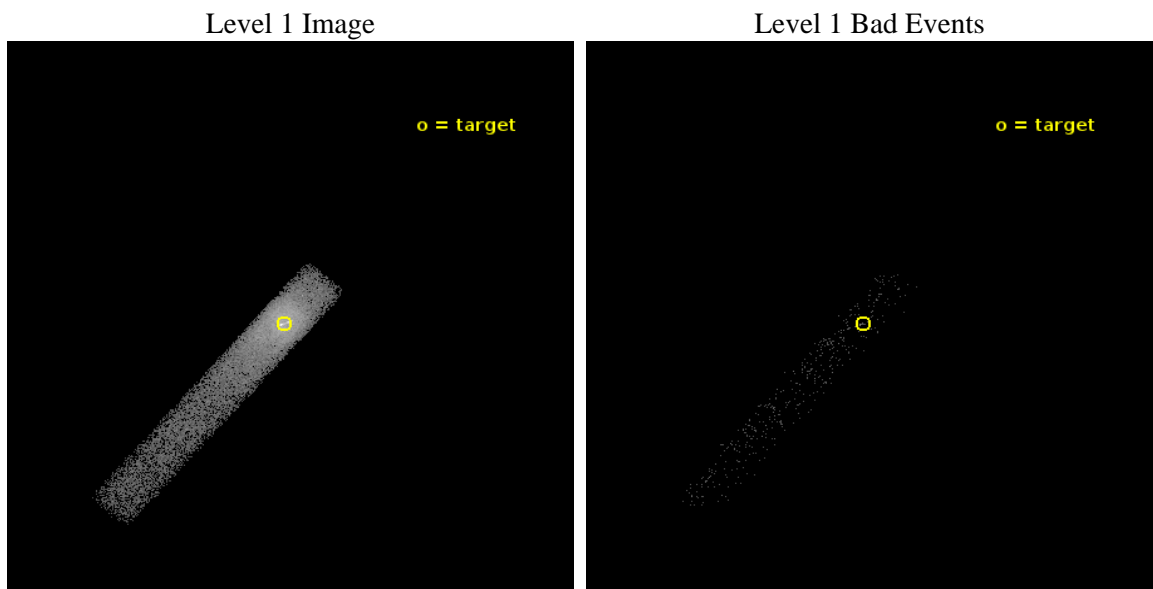
seq_num	703300	Sequence number
obs_id	18812	Observation id
title	Detecting an X-ray Counterpart to an Active TeV Flaring Event in the M87 Jet	Proposal title
observer	C. (Teddy) Cheung	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70149071732	Nominal RA [deg]
dec_nom	12.390544370783	Nominal Dec [deg]
roll_nom	131.5639530558	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4853.4430702925	Sum of GTIs [s]
livetime	4401.8166790246	Livetime [s]
ontime7	4853.4430702925	Sum of GTIs [s]
l2events	31633	Number of level 2 events



2 OBI

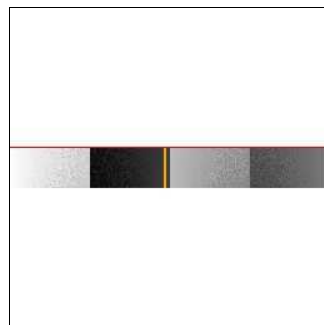
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	4853.4430702925	Sum of GTIs [s]
caldsver	4.7.0	 	ontime7	4853.4430702925	Sum of GTIs [s]
date	2016-03-16T16:59:45	Date and time of file creation	l1events	34760	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

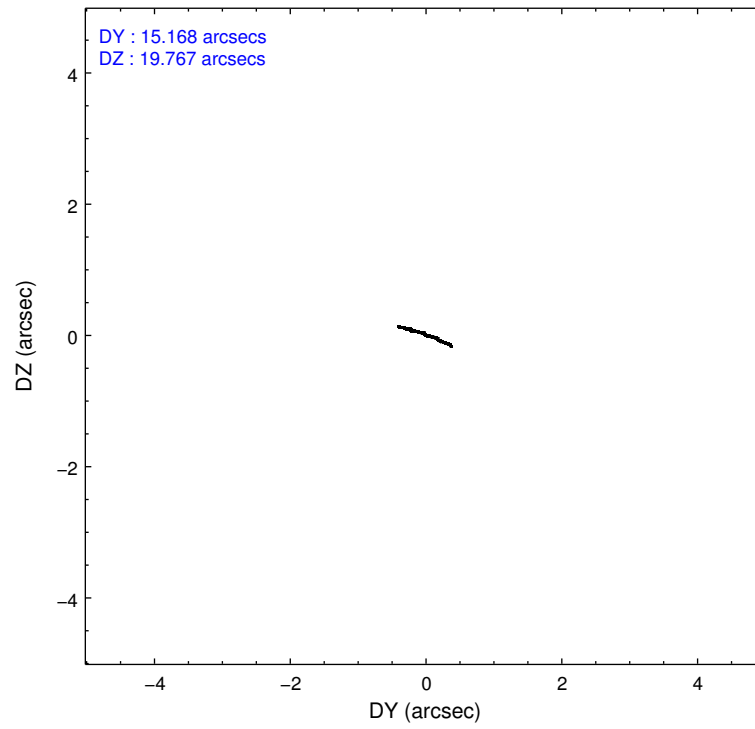
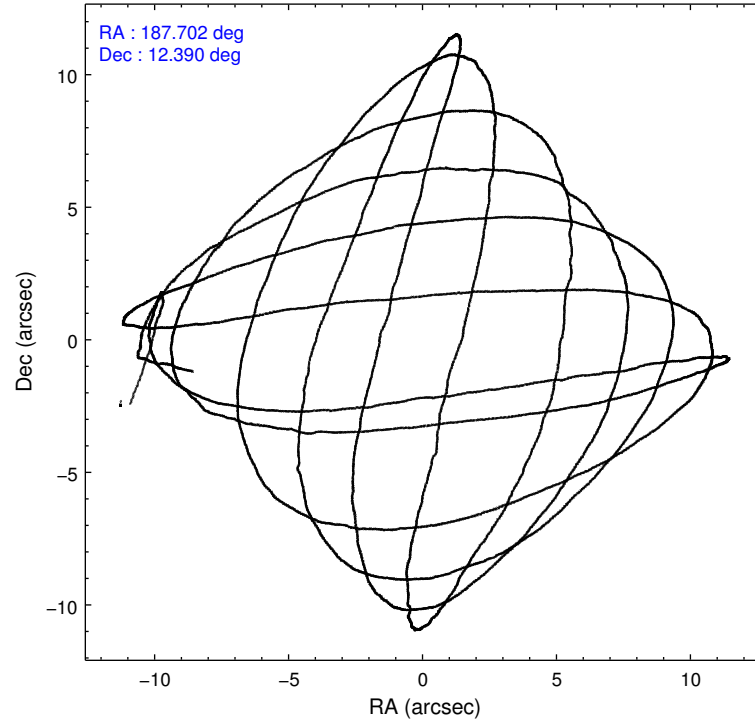
	ccd 7
level 1 events	34760
rejected events	2829
rejected %	8%

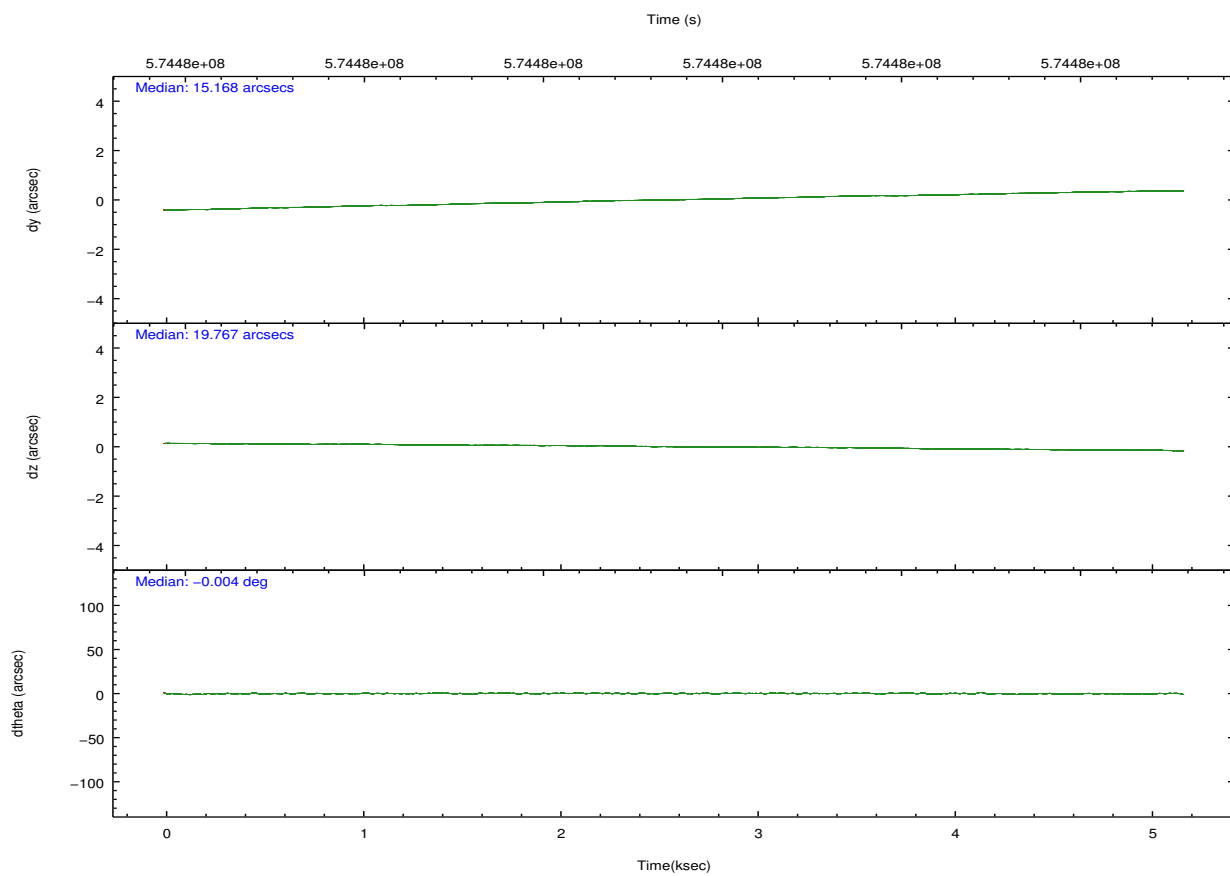
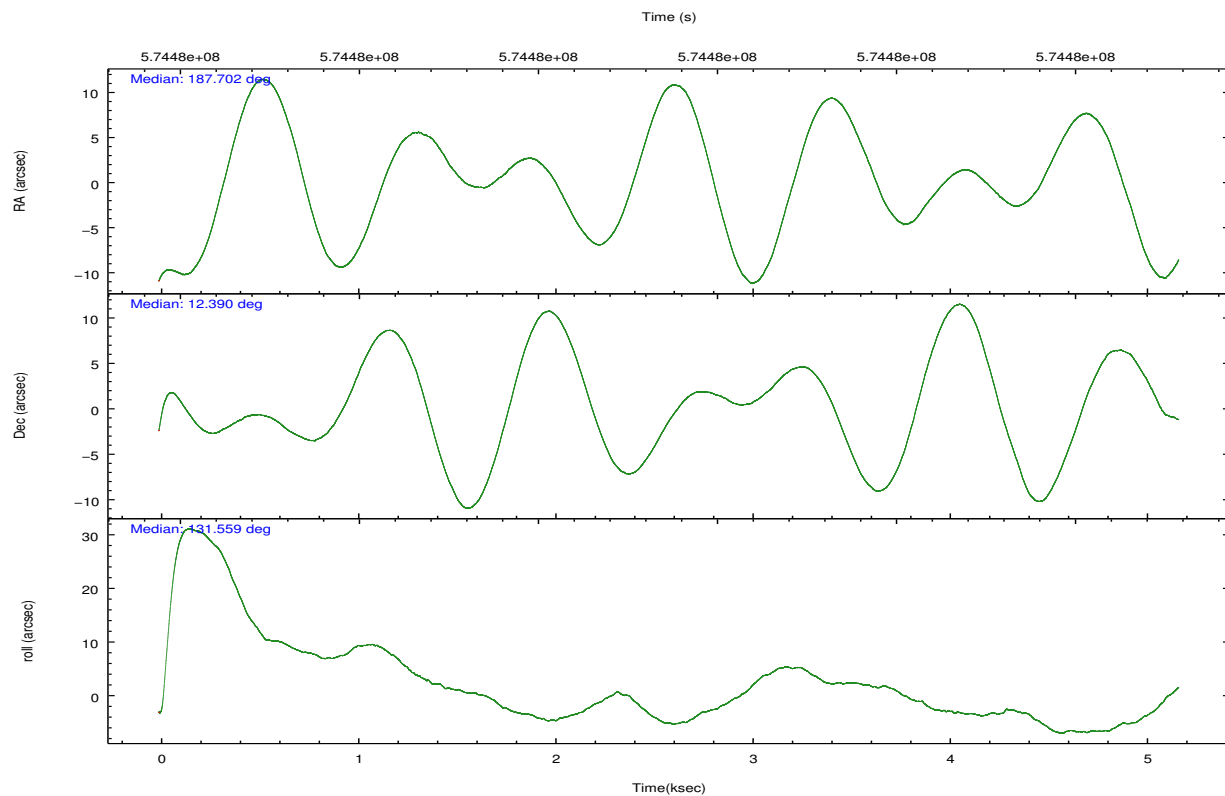
	ccd 7
grade 0 events	9077
	26%
grade 1 events	13
	0%
grade 2 events	8415
	24%
grade 3 events	3781
	10%
grade 4 events	3771
	10%
grade 5 events	720
	2%
grade 6 events	6893
	19%
grade 7 events	2090
	6%

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	187.728389	187.7014907173167	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.382241	12.39054437078347	Subarray start row	449	449
[deg] Pointing Roll	131.401645	131.5639530557995	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)	574475295.184000	574474119.80639			
Observation start date	2016-03-16T00:27:07	2016-03-16T00:08:39			
[s] Observation end time (MET)	574480295.184000	574480791.53176			
Observation end date	2016-03-16T01:50:27	2016-03-16T01:59:51			
Read mode	TIMED	TIMED			

2.3 Aspect



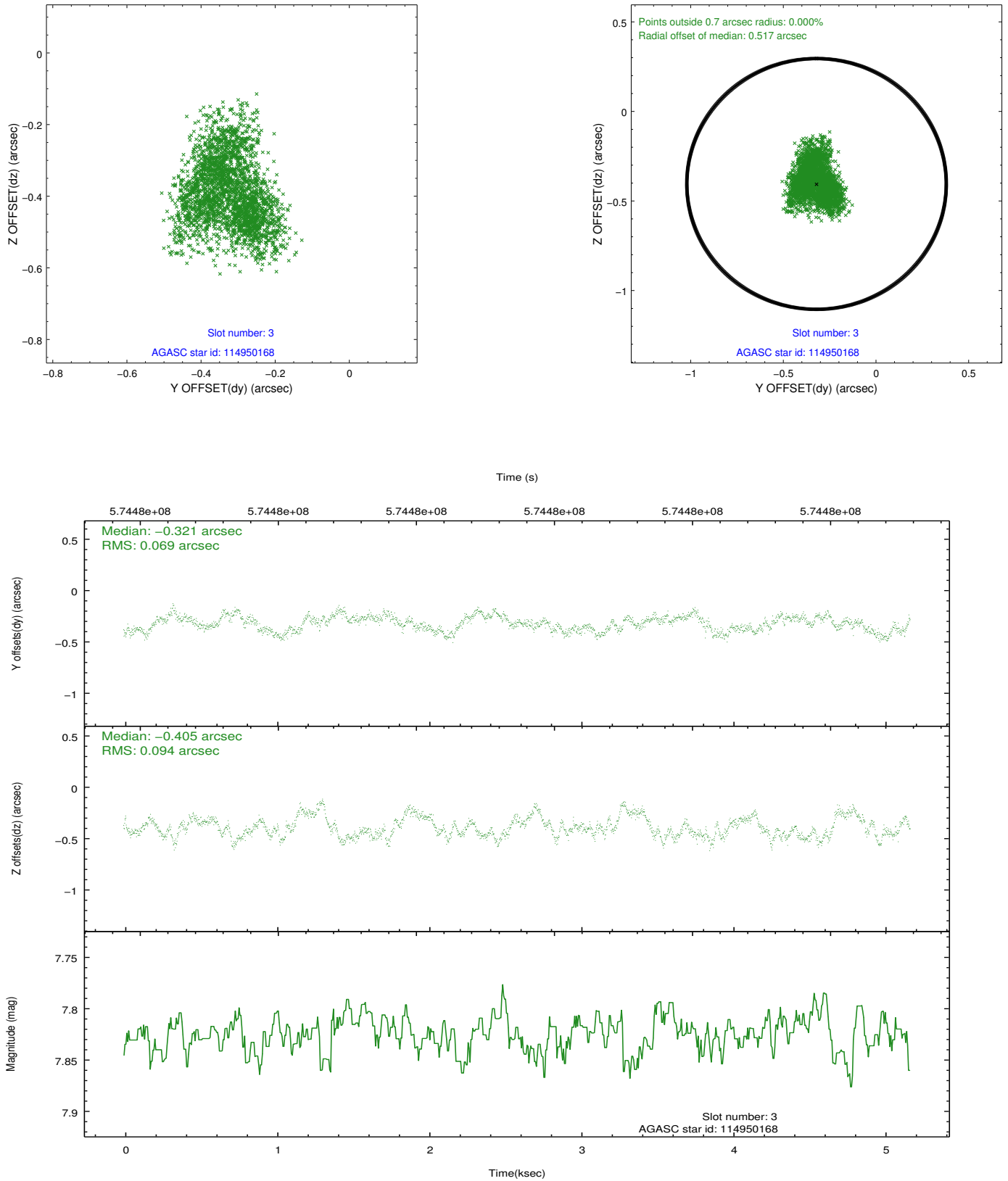


Slot Statistics

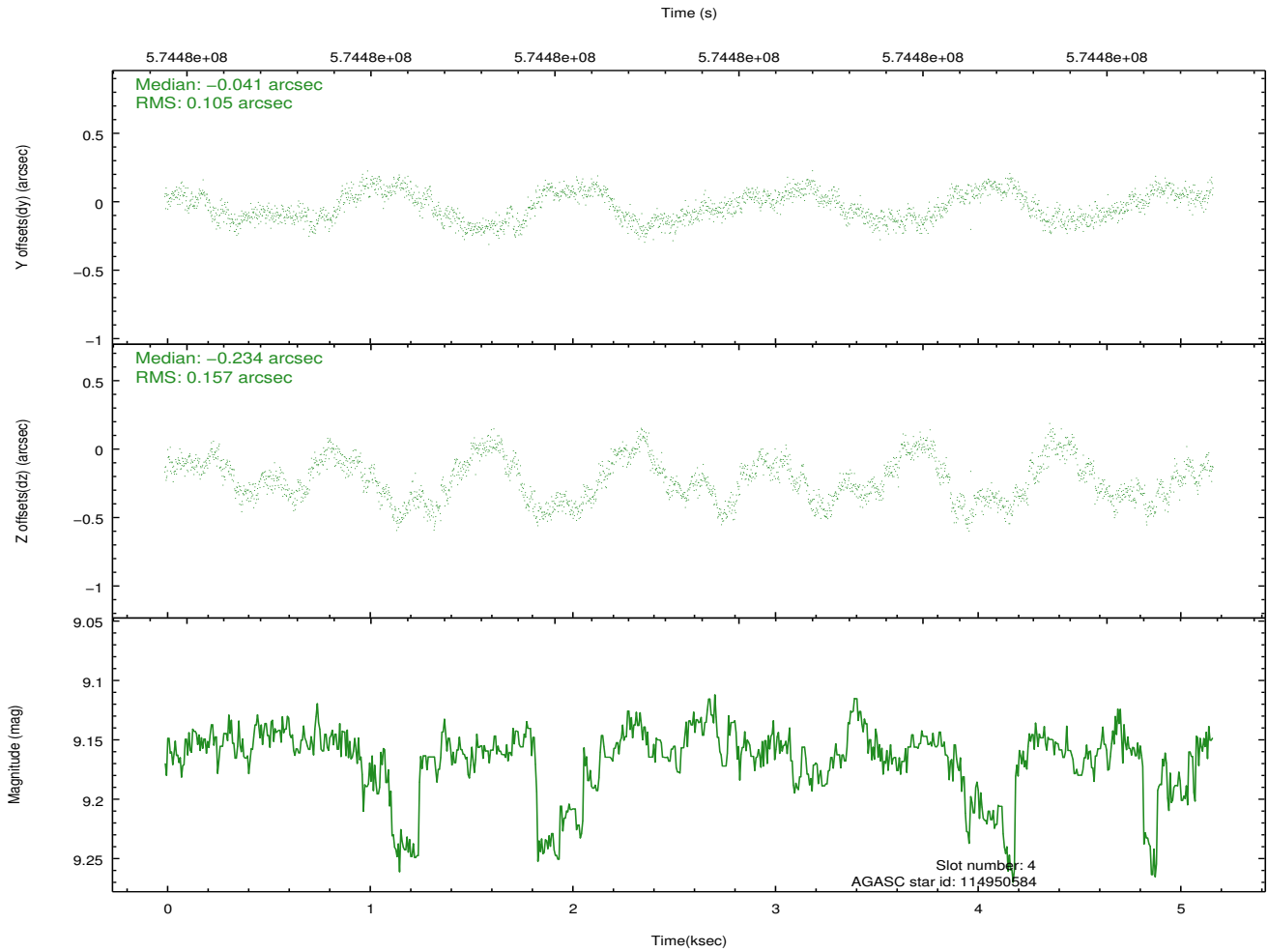
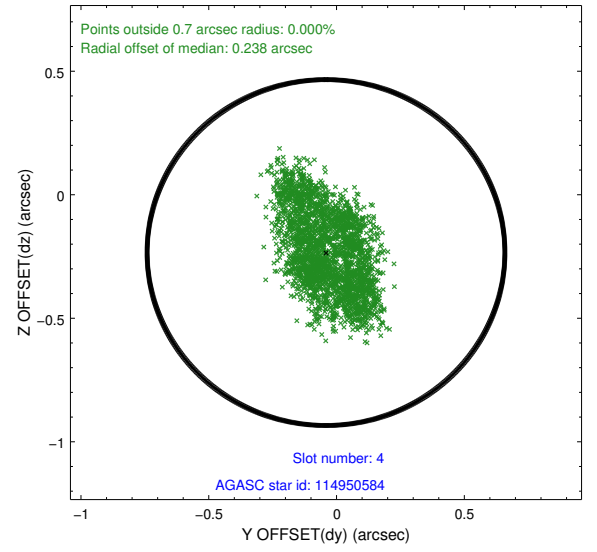
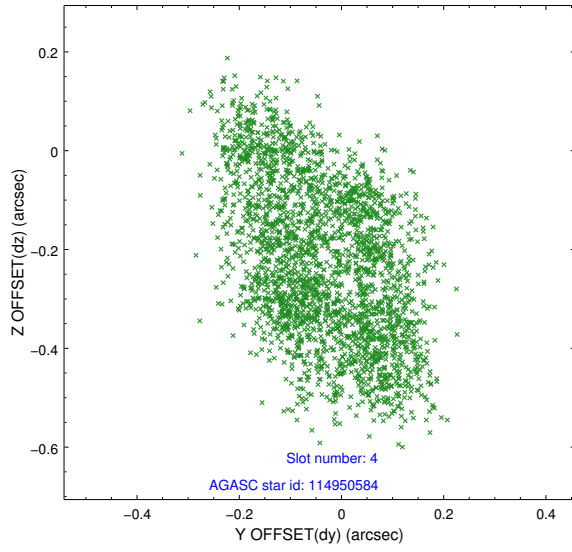
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1262	-0.216	-0.114	0.008	0.013	0.000000	0.000000	-768.34	-1741.39
1	FID		ACIS-S-4	7.21	1262	0.484	0.135	0.006	0.009	0.000000	0.000000	2145.08	166.13
2	FID		ACIS-S-5	7.23	1262	-0.298	-0.012	0.008	0.013	0.000000	0.000000	-1819.78	160.97
3	GUIDE	used	114950168	7.82	2524	-0.321	-0.405	0.124	0.195	187.143398	12.117441	647.61	2172.98
4	GUIDE	used	114950584	9.16	2523	-0.041	-0.234	0.205	0.316	187.487323	11.827248	-936.31	1959.00
5	GUIDE	used	114952792	9.45	2452	-0.187	-0.285	0.134	0.212	187.070263	12.344747	1431.44	1825.34
6	GUIDE	used	114952824	8.55	2523	-0.170	0.317	0.140	0.228	187.703904	12.486727	339.82	-182.89
7	GUIDE	used	114955056	8.32	2523	0.706	0.587	0.105	0.170	187.914001	12.127854	-1117.81	115.76

2.4 Star Slots

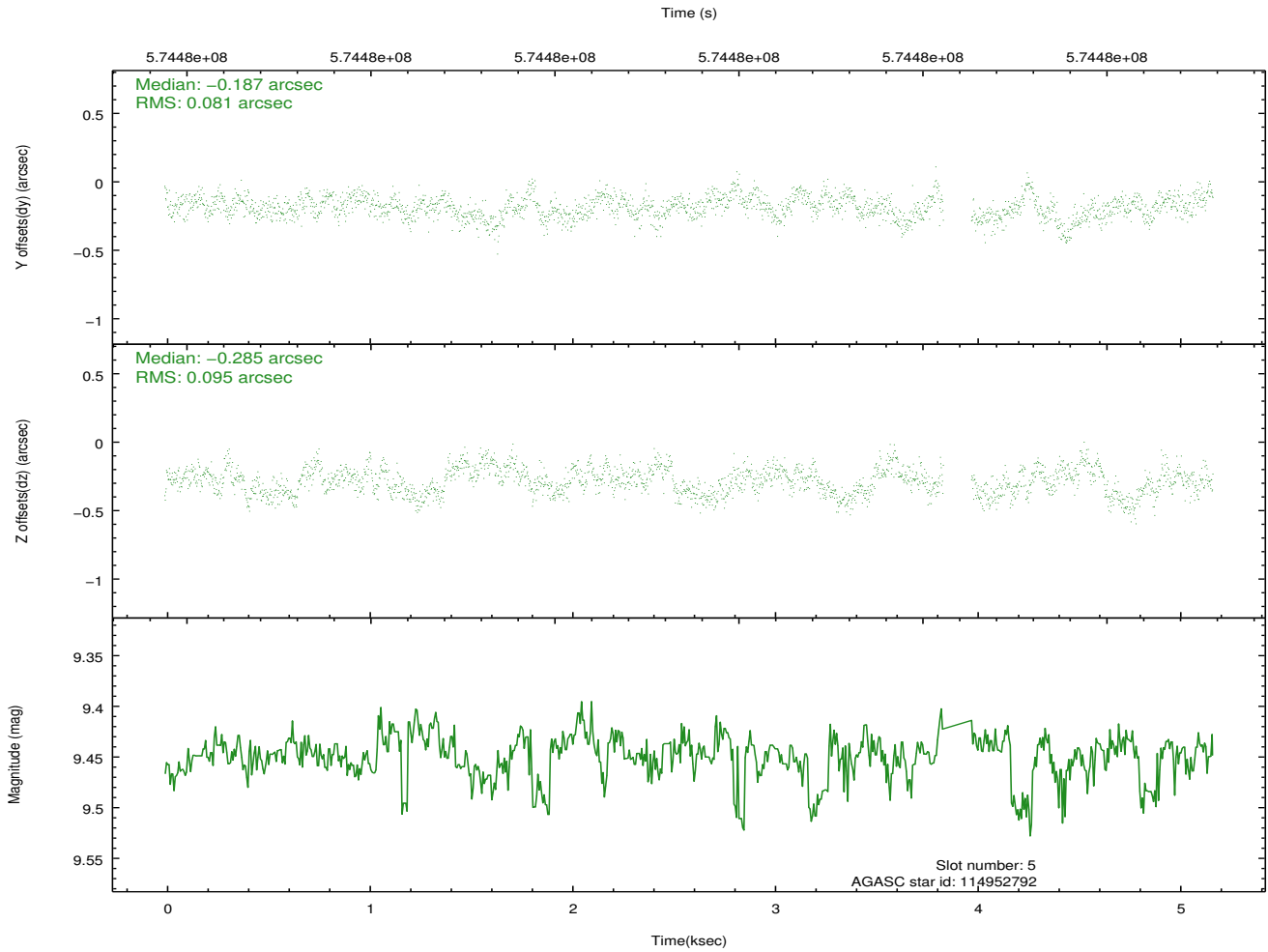
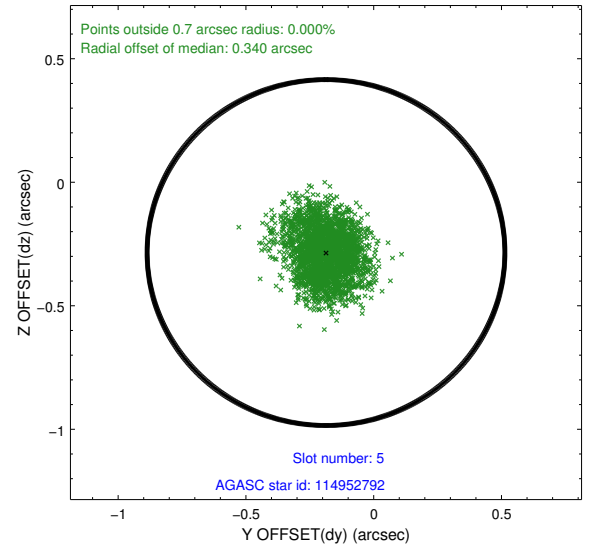
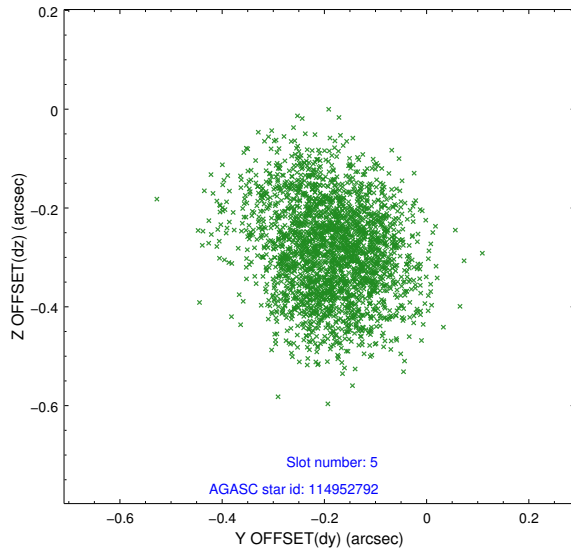
2.4.1 Slot 3



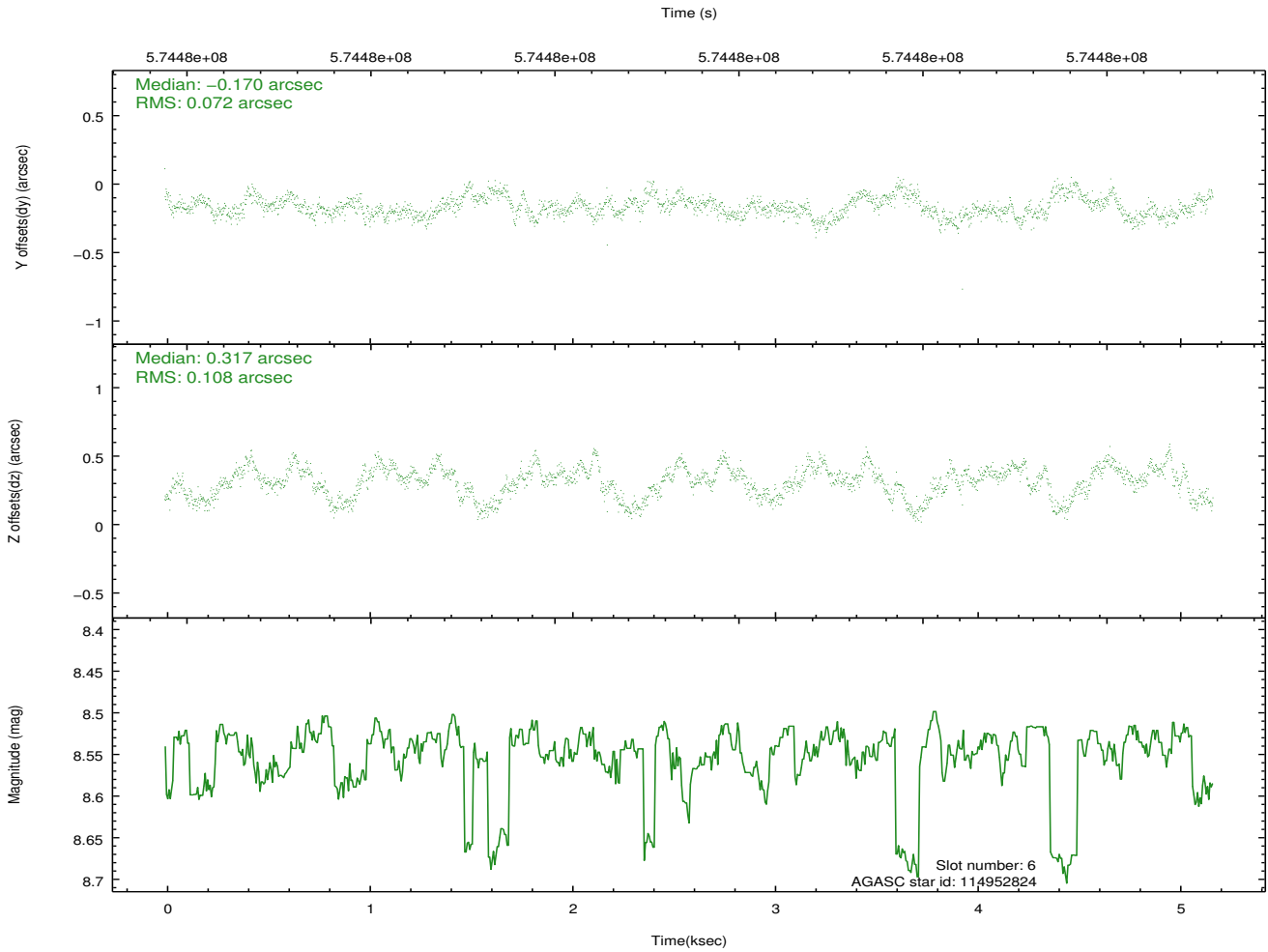
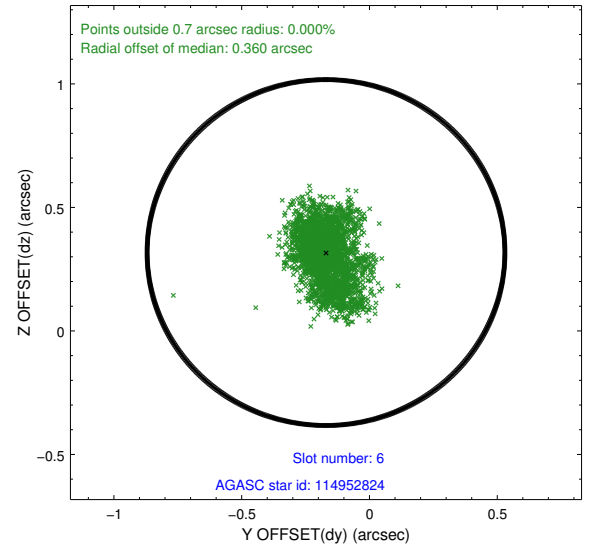
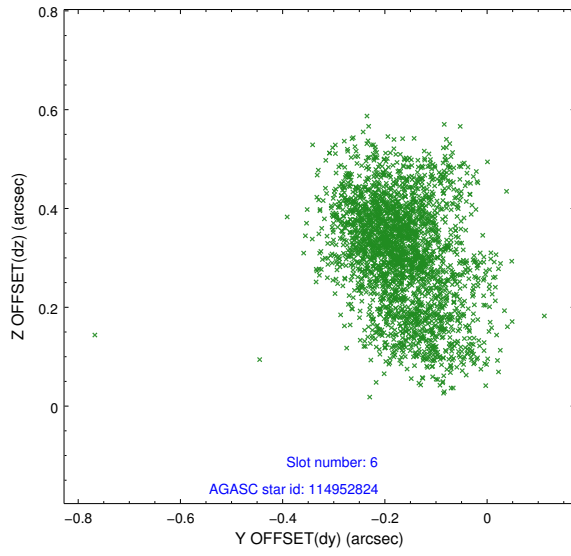
2.4.2 Slot 4



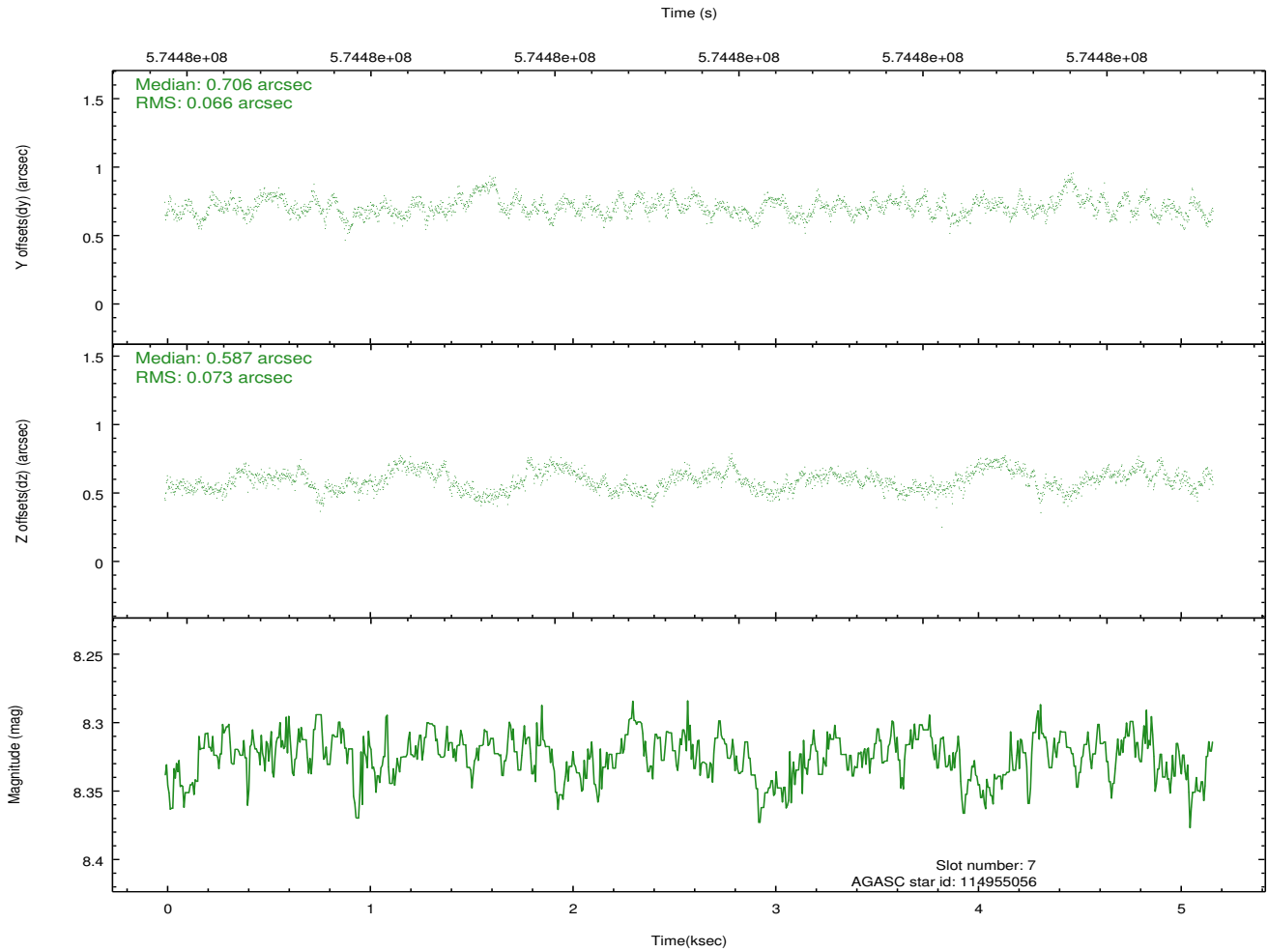
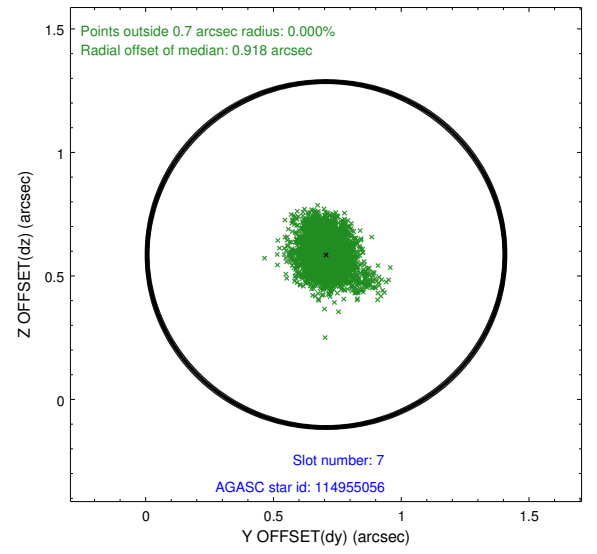
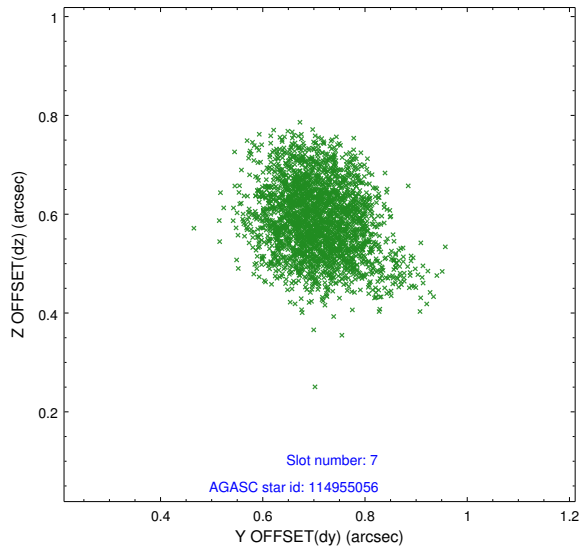
2.4.3 Slot 5



2.4.4 Slot 6

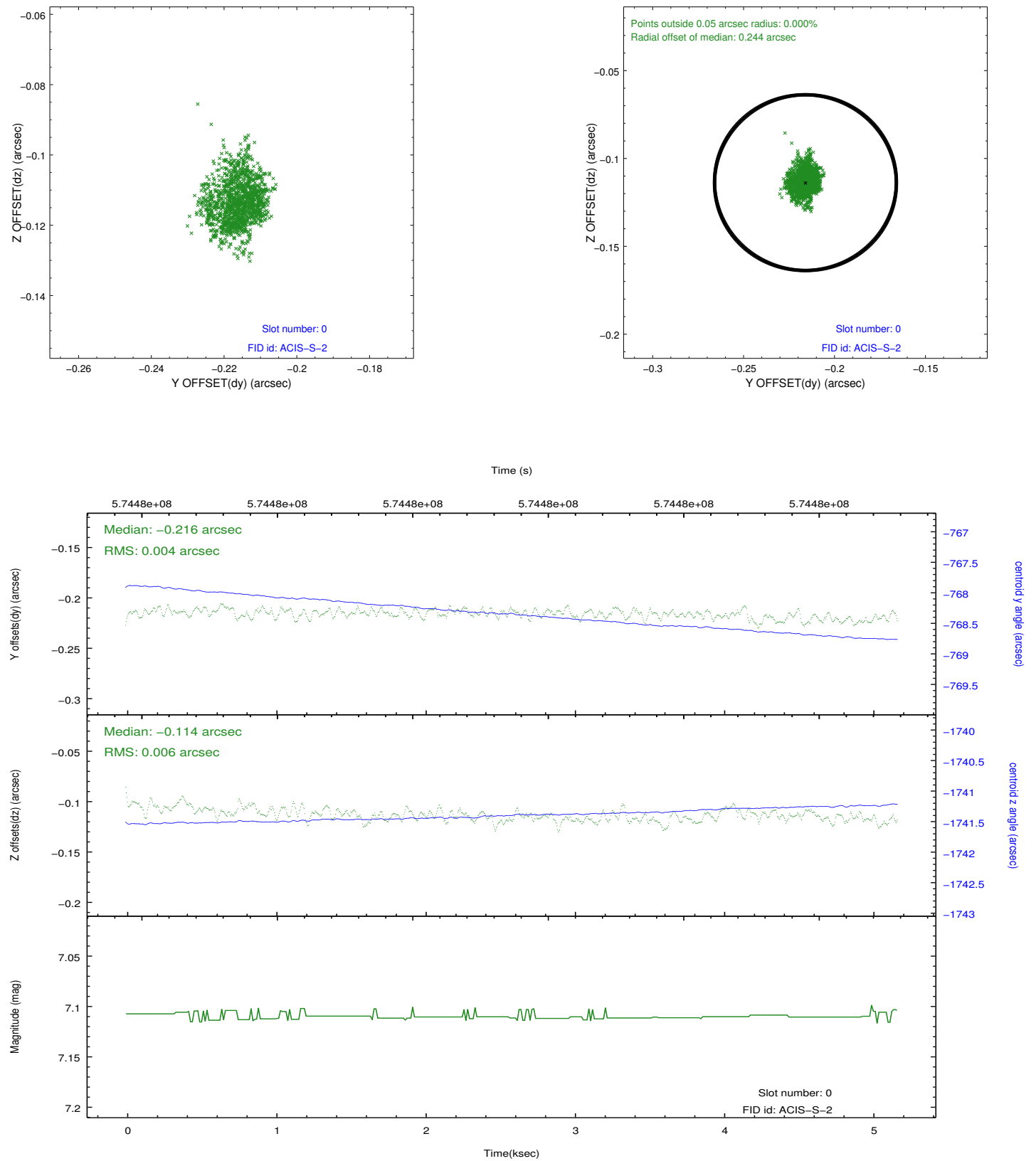


2.4.5 Slot 7

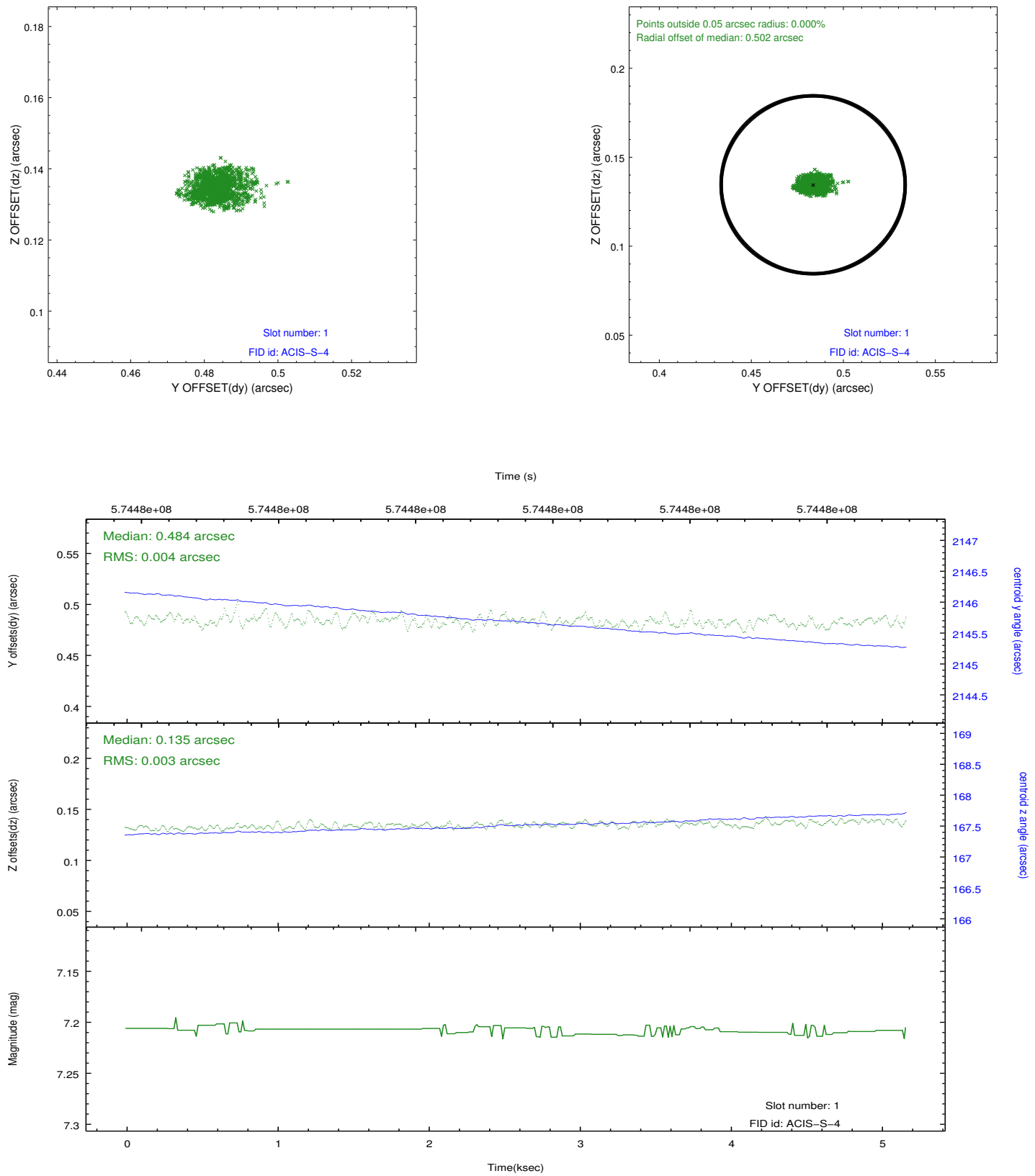


2.5 FID Slots

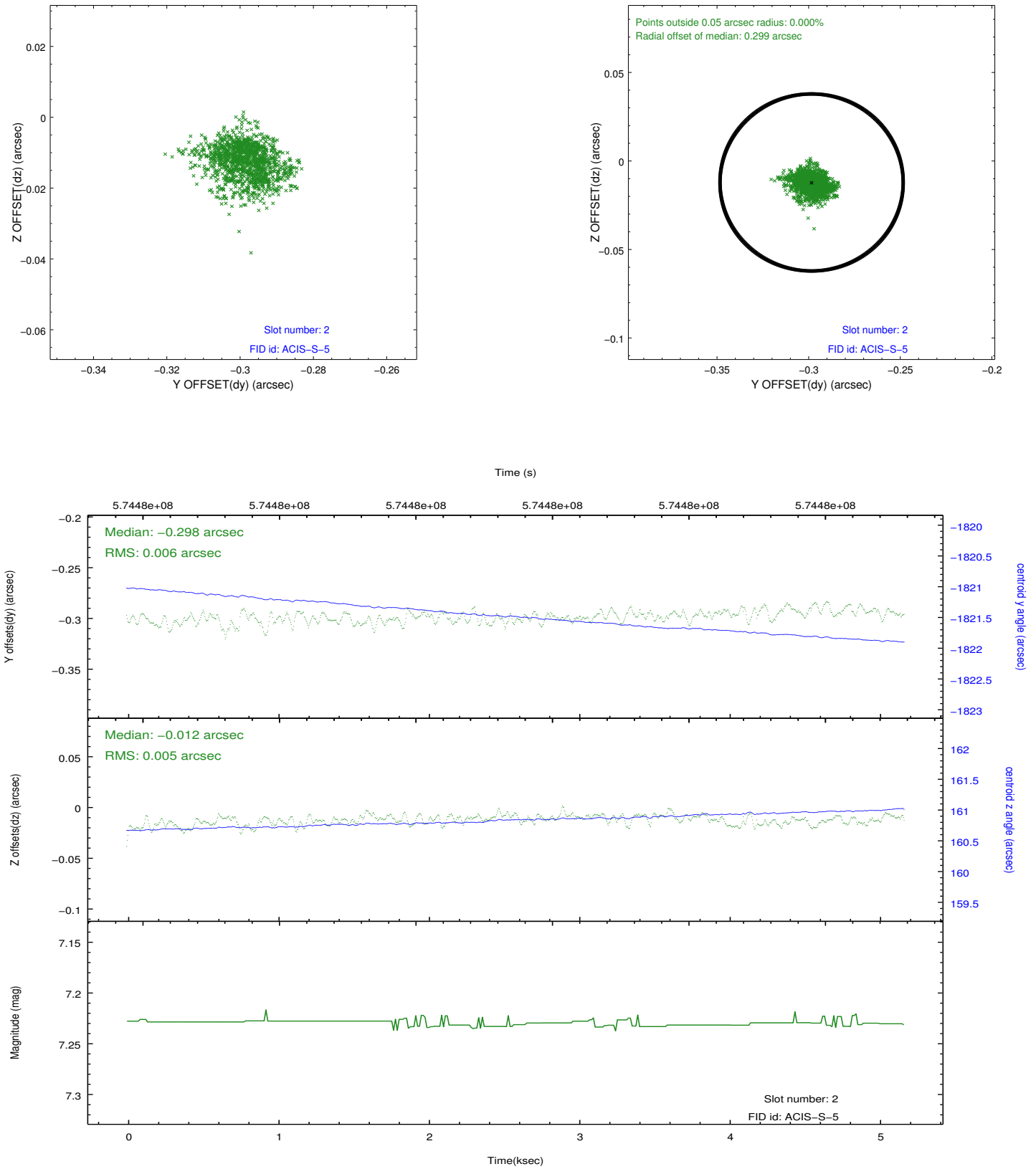
2.5.1 Slot 0



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)	2016.03.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8534430702925

A.2 Comments