EMC
Measurement and Test Report

For

GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647 USA

Test Standards:	EN 55032:2012+AC:2013 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55024:2010 EN 60601-1-2:2015
Product Description:	POWER SUPPLY
Tested Model:	GT*41133-***-**
Report No.:	STR16128109E
Tested Date:	2016-12-12 to 2016-12-23
Issued Date:	2016-12-23
Tested By:	Jeffry Zhang / Engineer
Reviewed By:	Silin Chen / EMC Manager
Approved & Authorized By:	Jandy So / PSQ Manager
Prepared By:	

Shenzhen SEM.Test Technology Co., Ltd.
1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road,
Bao'an District, Shenzhen, P.R.C.（518101）
Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

TABLE OF CONTENTS

1. GENERAL INFORMATION 3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 3
1.2 TEST STANDARDS 4
1.3 TEST METHODOLOGY 4
1.4 TEST FACILITY 4
1.5 EUT SETUP AND OPERATION MODE 5
1.6 PERFORMANCE CRITERIA FOR EMS 5
1.7 TEST EQUIPMENT LIST AND DETAILS 6
2. SUMMARY OF TEST RESULTS 7
3. CONDUCTED DISTURBANCE 8
3.1 MEASUREMENT UNCERTAINTY 8
3.2 TEST PROCEDURE 8
3.3 BASIC TEST SETUP BLOCK DIAGRAM 8
3.4 ENVIRONMENTAL CONDITIONS 9
3.5 SUMMARY OF TEST RESULTS/PLOTS 9
3.6 CONDUCTED EMISSIONS TEST DATA 9
4. RADIATED DISTURBANCE 14
4.1 MEASUREMENT UNCERTAINTY 14
4.2 TEST PROCEDURE 14
4.3 CORRECTED AMPLITUDE & MARGIN CALCULATION 15
4.4 ENVIRONMENTAL CONDITIONS 15
4.5 SUMMARY OF TEST RESULTS/PLOTS 15
5. HARMONIC CURRENT EMISSIONS 20
5.1 TEST PROCEDURE 20
5.2 TEST STANDARDS 20
5.3 HARMONIC CURRENT EMISSIONS TEST DATA 20
7. ELECTROSTATIC DISCHARGES (ESD) 34
7.1 TEST PROCEDURE 34
7.2 ELECTROSTATIC DISCHARGE IMMUNITY TEST DATA 34
8. CONTINUOUS RADIATED DISTURBANCES (R/S) 37
8.1 TEST PROCEDURE 37
8.2 CONTINUOUS RADIATED DISTURBANCES TEST DATA 37
9. ELECTRICAL FAST TRANSIENTS (EFT) 39
9.1 TEST PROCEDURE 39
9.2 ELECTRICAL FAST TRANSIENTS TEST DATA 39
10. SURGES 42
10.1 TEST PROCEDURE 42
10.2 SURGE TEST DATA 42
11. CONTINUOUS CONDUCTED DISTURBANCES (C/S) 43
11.1 TEST PROCEDURE 43
11.2 CONTINUOUS CONDUCTED DISTURBANCES TEST DATA 43
12. VOLTAGE DIPS AND INTERRUPTIONS 44
12.1 TEST PROCEDURE 44
12.2 VOLTAGE DIPS AND INTERRUPTIONS TEST DATA 44
EXHIBIT 1 - PRODUCT LABELING 45
PROPOSED CE LABEL FORMAT 45
PROPOSED LABEL LOCATION ON EUT 45
EXHIBIT 2 - EUT PHOTOGRAPHS 47
EXHIBIT 3 - TEST SETUP PHOTOGRAPHS 54

STR Test

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	GlobTek, Inc.
Address of applicant:	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer:	1. GlobTek, Inc. 2. GlobTek(Suzhou)Co., Ltd
Address of manufacturer:	1.186 Veterans Dr. Northvale, NJ 07647 USA 2.Building 4, No. 76, Jin Ling East Rd.,Suzhou Industrial Park, Suzhou, JiangSu 215021, China

General Description of EUT	
Product Name:	POWER SUPPLY
Trade Name:	GlobTek, Inc.
Model No.:	GT*41133-***-**
Adding Model(s):	/
Note: The test data is gathered from a production sample, provided by the manufacturer. *GT*41133-***-*** *The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.* *The 2nd "*" part denotes the rated output wattage designation, which can be "01" to "90", with interval of 1.* *The 3rd "*" part denotes the standard rated output voltage designation, which can be "16", "24", "35" and* *"48".* *The 4th "*" part is optional, which can be "-0.1" to "-12.9" with interval of 0.1 to denote voltage deviation or blank to indicate no voltage different. The result by subtracting the deviation value from the standard rated output voltage denotes the rated output voltage, with a range of 12-48 volts.* *The 5th "*" part can be 'F' to denote open frame power supply model or 'T' to denote power adapter model.* *The 6th "*" part can be '2' to denote Class II model, or '3A' to denote Class I model with different appliance* *inlets when the 5th "*" part is 'T'. Otherwise, the 6th "*" part is blank when the 5th "*" part is 'F'.*	

Technical Characteristics of EUT	
Rated Voltage:	GTM41133-9048-11.0-T2 Input: AC 100-240V Output: DC 37V GTM41133-9016-1.0-T3A Input: AC 100-240V Output: DC 15V
Rated Current:	GTM41133-9048-11.0-T2 Input: 1.5A Output: 2.43A

	GTM41133-9016-1.0-T3A Input: 1.5A Output: 6A
Rated Power:	90W
Power Adaptor Model:	/
Class of Equipment:	Class B
Highest Internal Frequency:	Below 108MHz

1.2 Test Standards

The following report is prepared on behalf of the GlobTek, Inc. in accordance with EN 60601-1-2, Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests

The objective of the manufacturer is to demonstrate compliance with the standards EN 60601-1-2 for Medical electrical equipment.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with the standards EN 60601-1-2 for Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests.

1.4 Test Facility

FCC – Registration No.: 934118
Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A
The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062
Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark
TM1	Working	/

Note: The product is Measurement at two nominal voltages of 230V and 110V, using a frequency of 50Hz or 60Hz. This report is display the worst case with 230V/50Hz data.

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
DC Cable	1.8	Unshielded	With Core

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
/	/	/	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
AC Power Cable	1.0	Unshielded	Without Core

1.6 Performance Criteria for EMS

All the test data has been collected, reduced, and analyzed within this report in accordance with Immunity requires the following as specific performance criteria:

A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.

B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacture. No change in operating state or loss or data is permitted.

C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2016-06-04	2017-06-03
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2016-06-04	2017-06-03
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2016-06-04	2017-06-03
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2016-06-04	2017-06-03
SEMT-1011	Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2016-06-04	2017-06-03
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-333	2016-06-04	2017-06-03
SEMT-1042	Horn Antenna	ETS	3117	00086197	2016-06-04	2017-06-03
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2016-06-04	2017-06-03
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2016-06-04	2017-06-03
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2016-06-04	2017-06-03
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2016-06-04	2017-06-03
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2016-06-04	2017-06-03
SEMT-1060	DC LISN	Schwarz beck	NNBM8126D	279	2016-06-04	2017-06-03
SEMT-1061	DC LISN	Schwarz beck	NNBM8126D	280	2016-06-04	2017-06-03
SEMT-1085	8-WIRE LISN	Schwarz beck	8158	CAT3-8158-0059	2016-06-04	2017-06-03
SEMT-1086	8-WIRE LISN	Schwarz beck	8158	CAT5-8158-0117	2016-06-04	2017-06-03
SEMT-1005	Clamp	Schwarz beck	MDS21	3809	2016-06-04	2017-06-03
SEMT-1014	Loop Antenna	EVERFINE	LLA-2	711001	2016-06-04	2017-06-03
SEMT-1071	VDH Test Head	AFJ	VDH 30	SC022Z	2016-06-04	2017-06-03
SEMT-1056	Digital Power Analyzer	California Instrument	CTS	72831	2016-06-04	2017-06-03
SEMT-1057	Power Source	California Instrument	5001IX-CTS-400	25965	2016-06-04	2017-06-03
SEMT-1027	ESD Generator	TESQ AG	NSG 437	161	2016-06-04	2017-06-03
SEMT-1055	Signal Generator	HP	8648A	3642U01277	2016-06-04	2017-06-03
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2016-06-04	2017-06-03
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2016-06-04	2017-06-03
SEMT-1024	Transient 2000	EMC PARTNER	TRA2000	863	2016-06-04	2017-06-03
SEMT-1045	CS Immunity Tester	EMTEST	CWS500	0900-03	2016-06-04	2017-06-03

STR.cn

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
EN55032	Conducted Disturbance	Compliant
	Radiated Disturbance	Compliant
EN 61000-3-2 EN 61000-3-3	Harmonic Current Emission	Compliant
	Voltage Fluctuation and Flicker	Compliant
EN 55024 EN 60601-1-2	Electrostatic Discharge Immunity in accordance with IEC 61000-4-2	Compliant
	Continuous Radiated Disturbances Immunity in accordance with IEC 61000-4-3	Compliant
	Electrical Fast Transient/Burst Immunity in accordance with IEC 61000-4-4	Compliant
	Surges Immunity in accordance with IEC 61000-4-5	Compliant
	Continuous Conducted Disturbances Immunity in accordance with IEC 61000-4-6	Compliant
	Power-frequency Magnetic Fields Immunity in accordance with IEC 61000-4-8	N/A
	Voltage Dips/Interruptions Immunity in accordance with IEC 61000-4-11	Compliant

N/A: not applicable

SEM Test

3. Conducted Disturbance

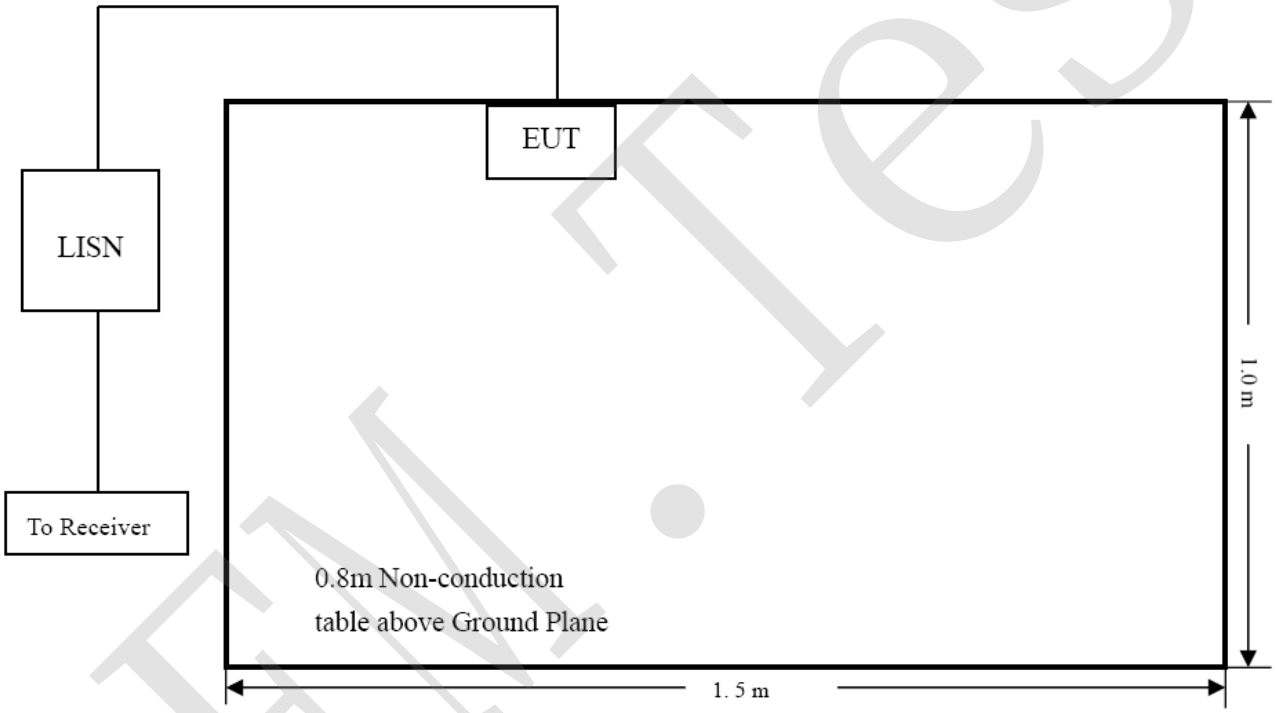
3.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

3.2 Test Procedure

Test is conducting under the description of EN55022 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.

3.3 Basic Test Setup Block Diagram



SEM.test

3.4 Environmental Conditions

Temperature:	22 ° C
Relative Humidity:	55 %
ATM Pressure:	1015 mbar

3.5 Summary of Test Results/Plots

According to the data in section 3.6, the EUT complied with the EN 60601-1-2 Conducted margin for a Class B device, with the *worst* margin reading of:

-4.29 dB at **2.83 MHz** in the **Line** mode, **Peak** detector, **0.15-30MHz**

3.6 Conducted Emissions Test Data

SEM. Test

Plot of Conducted Emissions Test Data

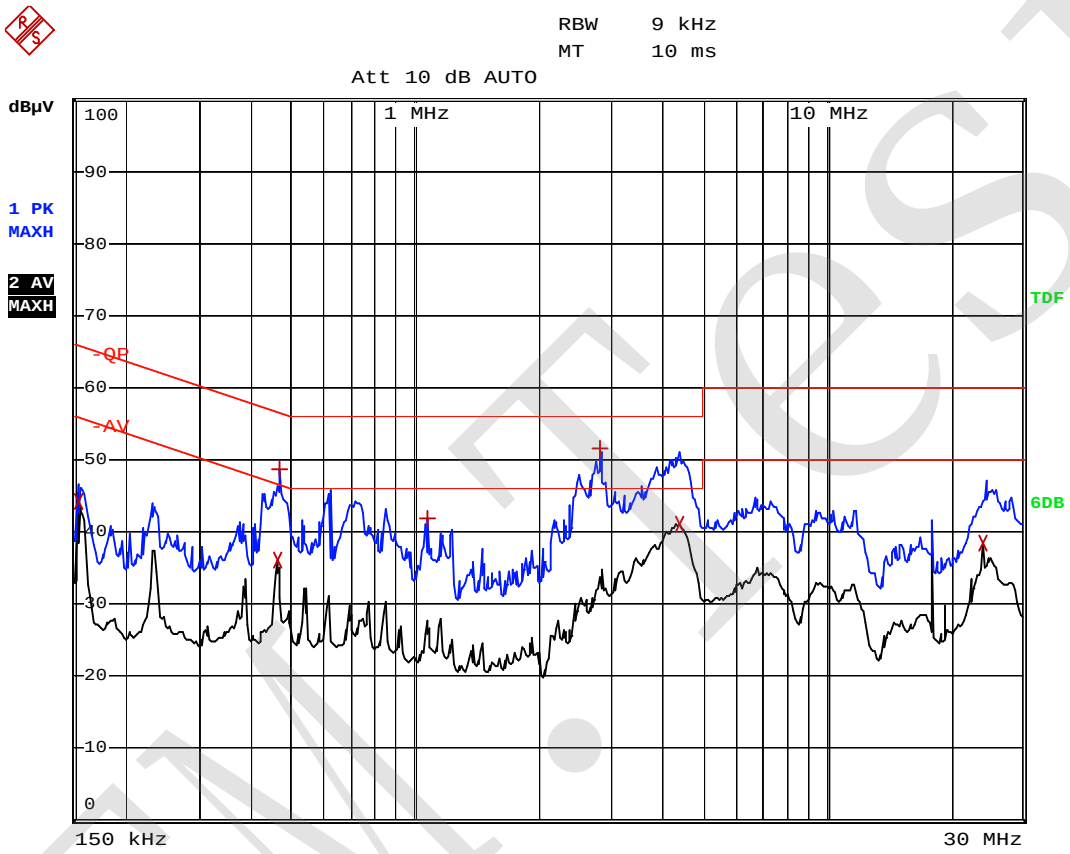
EUT: *POWER SUPPLY*

Tested Model: *GTM41133-9048-11.0-T2*

Operating Condition: *TM1*

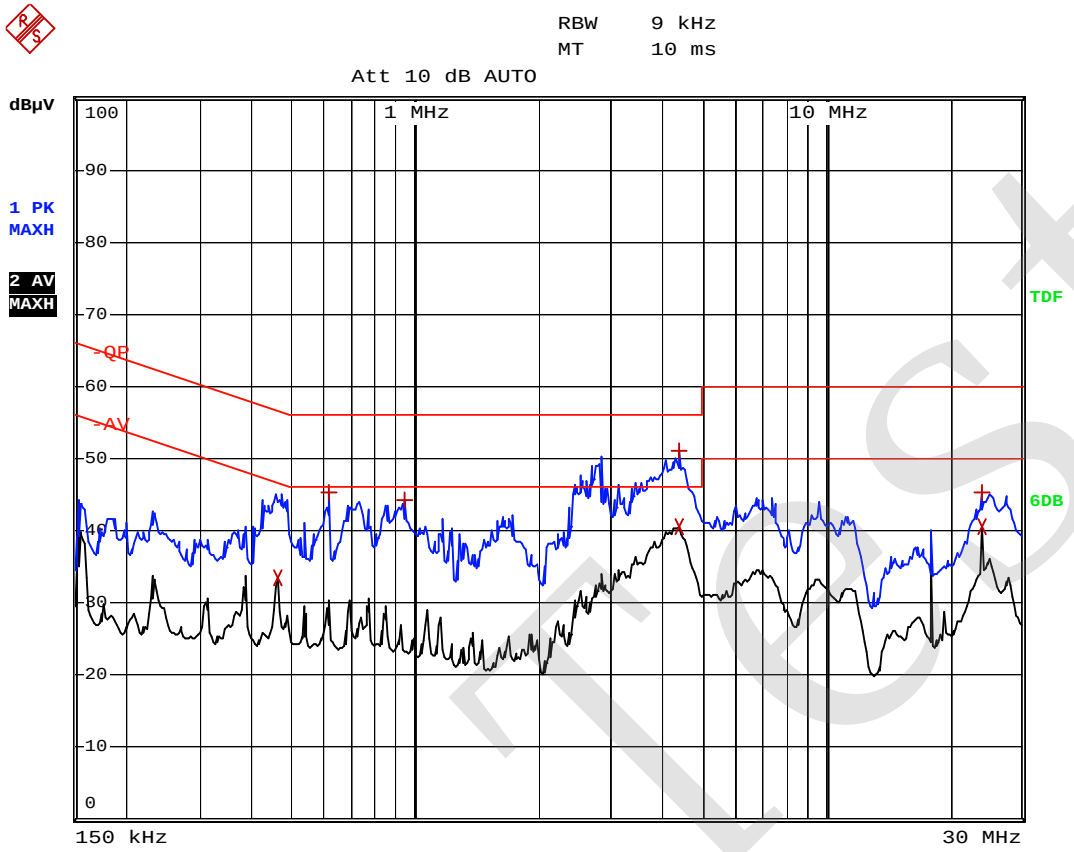
Comment: *AC 230V/50Hz*

Test Specification: *Line*



EDIT PEAK LIST (Prescan Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	154 kHz	44.15	-11.62
2 Average	462 kHz	35.98	-10.67
1 Max Peak	466 kHz	48.76	-7.81
1 Max Peak	1.07 MHz	41.83	-14.16
1 Max Peak	2.83 MHz	51.70	-4.29
2 Average	4.402 MHz	41.01	-4.98
2 Average	23.978 MHz	38.57	-11.42

Test Specification: *Neutral*



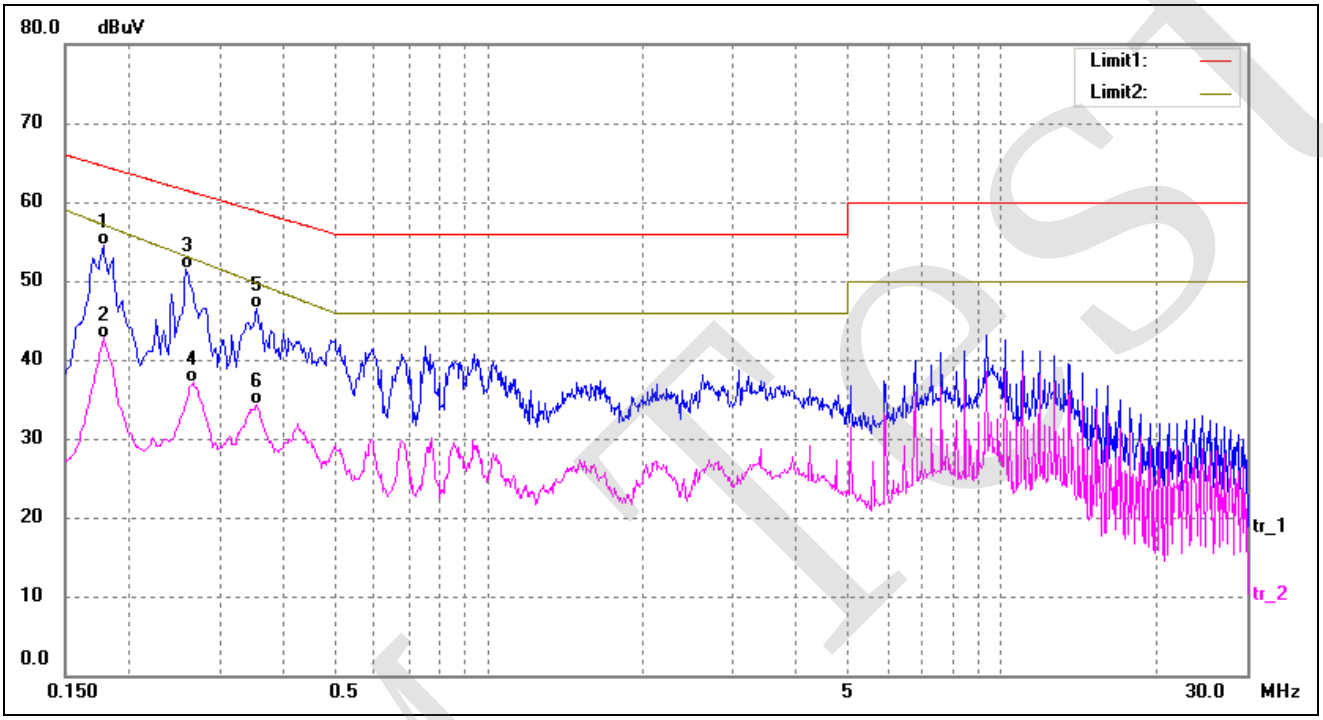
EDIT PEAK LIST (Prescan Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	462 kHz	33.59	-13.06
1 Max Peak	614 kHz	45.26	-10.73
1 Max Peak	946 kHz	44.16	-11.83
1 Max Peak	4.398 MHz	51.07	-4.92
2 Average	4.398 MHz	40.47	-5.52
1 Max Peak	23.978 MHz	45.27	-14.72
2 Average	23.978 MHz	40.43	-9.56

STR Test

Plot of Conducted Emissions Test Data

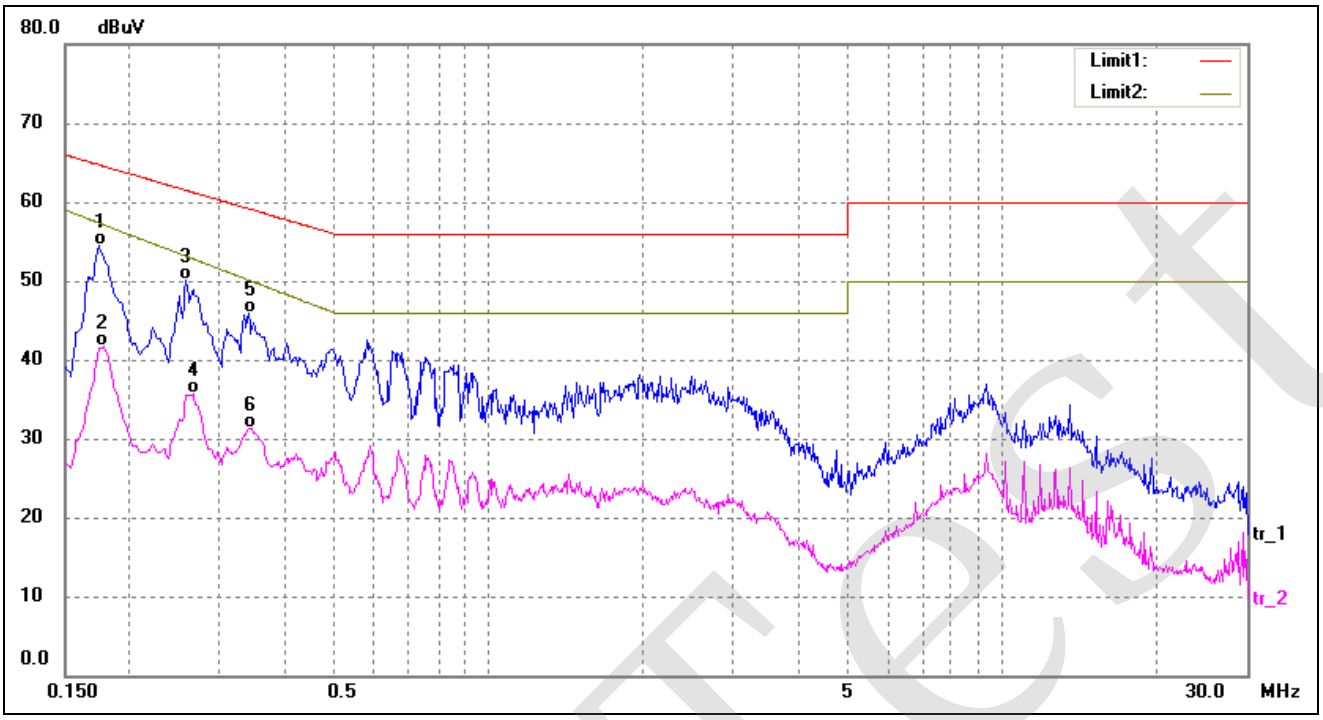
EUT: *POWER SUPPLY*
Tested Model: *GTM41133-9016-1.0-T3A*
Operating Condition: *TM2*
Comment: *AC 230V/50Hz*

Test Specification: *Line*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.1780	44.63	9.82	54.45	64.58	-10.13	QP
2	0.1780	32.98	9.82	42.80	57.15	-14.35	AVG
3*	0.2580	41.76	9.80	51.56	61.50	-9.94	QP
4	0.2660	27.21	9.80	37.01	52.81	-15.80	AVG
5	0.3540	36.78	9.80	46.58	58.87	-12.29	QP
6	0.3540	24.56	9.80	34.36	49.73	-15.37	AVG

Test Specification: *Neutral*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1740	44.74	9.83	54.57	64.77	-10.20	QP
2	0.1780	31.84	9.82	41.66	57.15	-15.49	AVG
3	0.2580	40.29	9.80	50.09	61.50	-11.41	QP
4	0.2660	25.87	9.80	35.67	52.81	-17.14	AVG
5	0.3420	36.05	9.80	45.85	59.15	-13.30	QP
6	0.3460	21.49	9.80	31.29	49.98	-18.69	AVG

SEMTEST

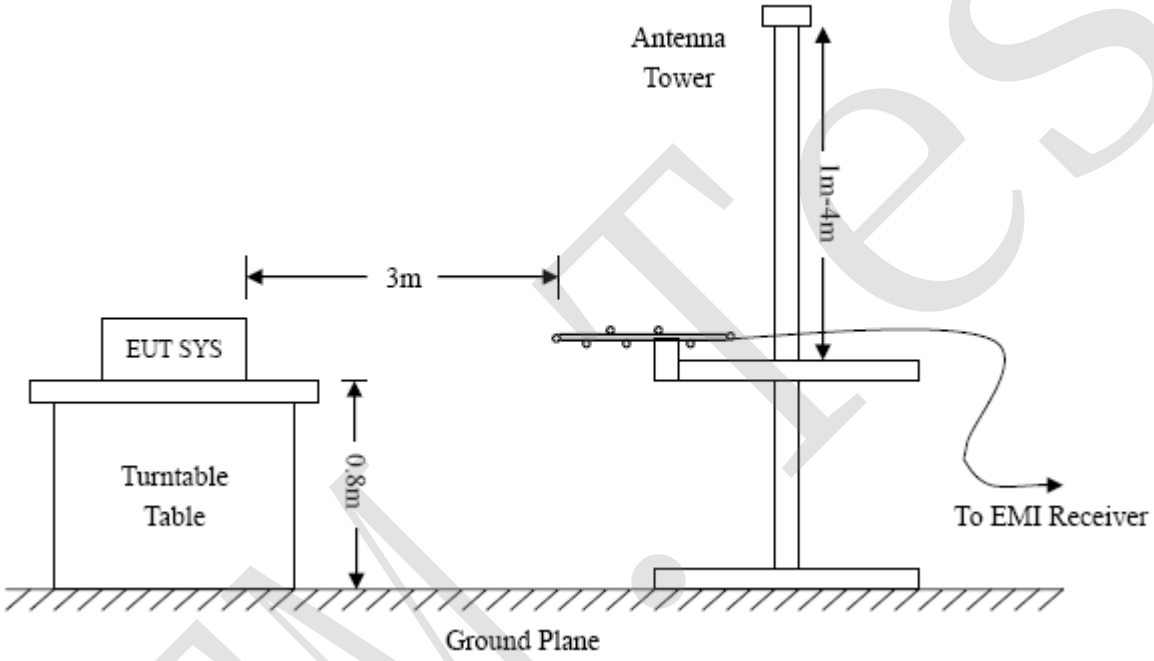
4. Radiated Disturbance

4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is ± 5.10 dB.

4.2 Test Procedure

Test is conducting under the description of EN55022 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.



SEM. Test

4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for Class B device. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – EN 60601-1-2 Class B Limit

4.4 Environmental Conditions

Temperature:	23° C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

According to the data in section 4.5, the EUT complied with the EN 60601-1-2 Class B standards, and had the worst margin is:

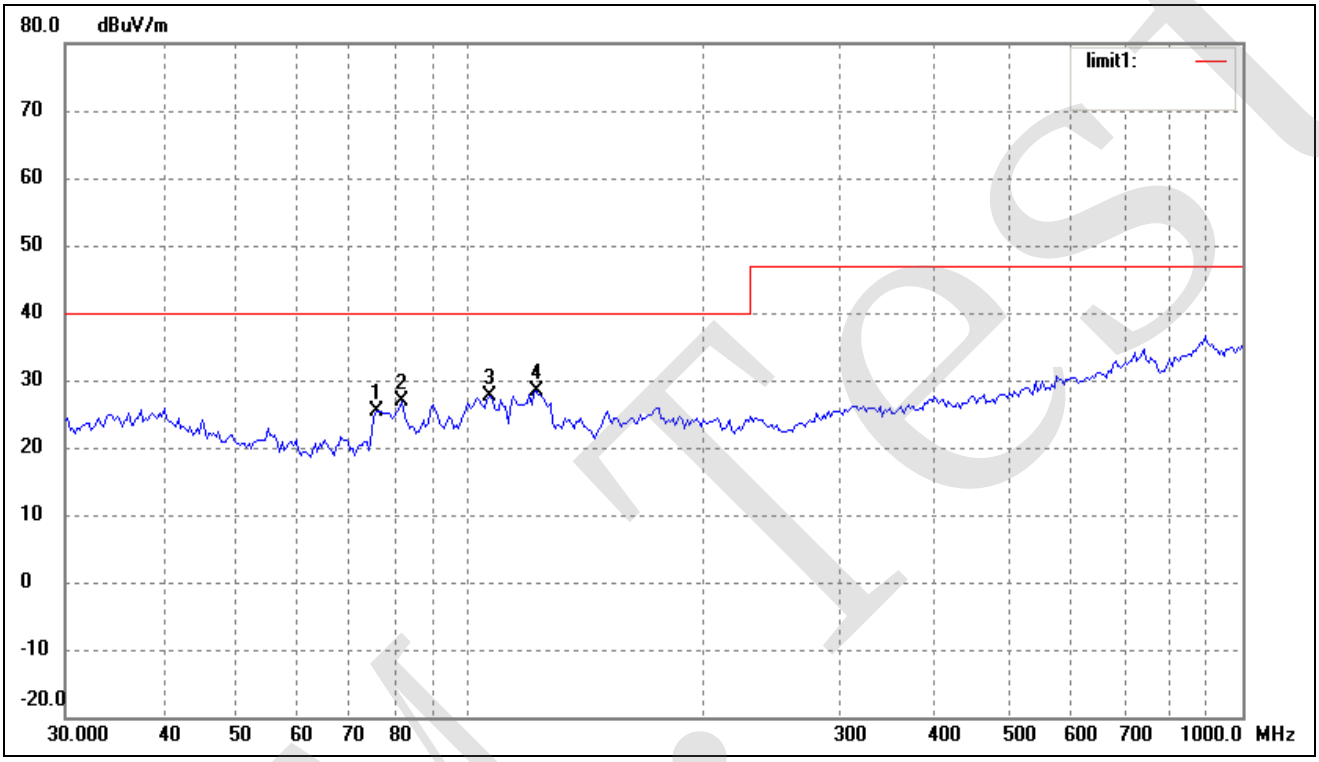
-3.51 dB at **204.2375 MHz** in the, **Horizontal** polarization, **30 MHz to 1 GHz, 3Meters**

SEM.Test

Plot of Radiated Emissions Test Data

EUT: *POWER SUPPLY*
Tested Model: *GTM41133-9048-11.0-T2*
Operating Condition: *TM1*
Comment: *AC 230V/50Hz*

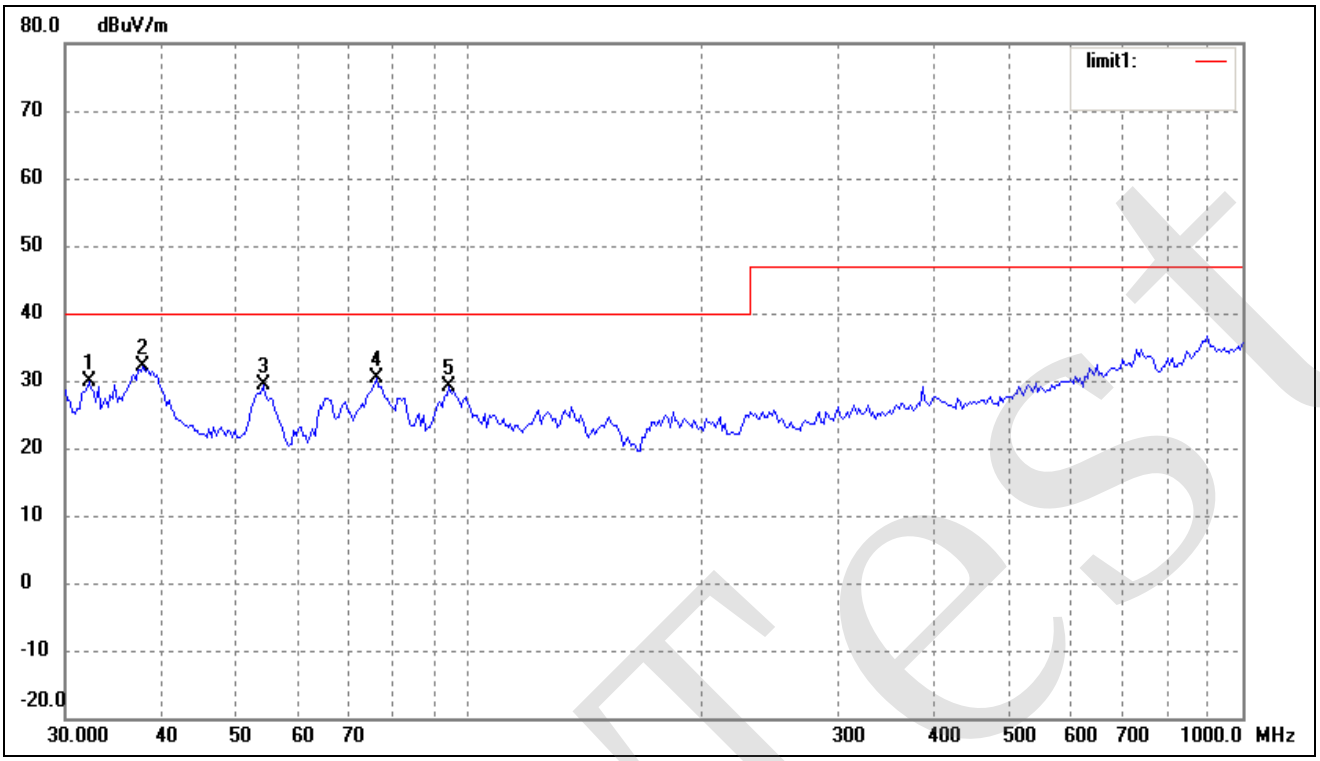
Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	75.7114	23.57	1.91	25.48	40.00	-14.52	360	100	peak
2	81.7833	24.82	2.18	27.00	40.00	-13.00	360	100	peak
3	106.0126	21.35	6.24	27.59	40.00	-12.41	360	100	peak
4	121.9755	23.74	4.71	28.45	40.00	-11.55	360	100	peak

STR Test

Test Specification: *Vertical*



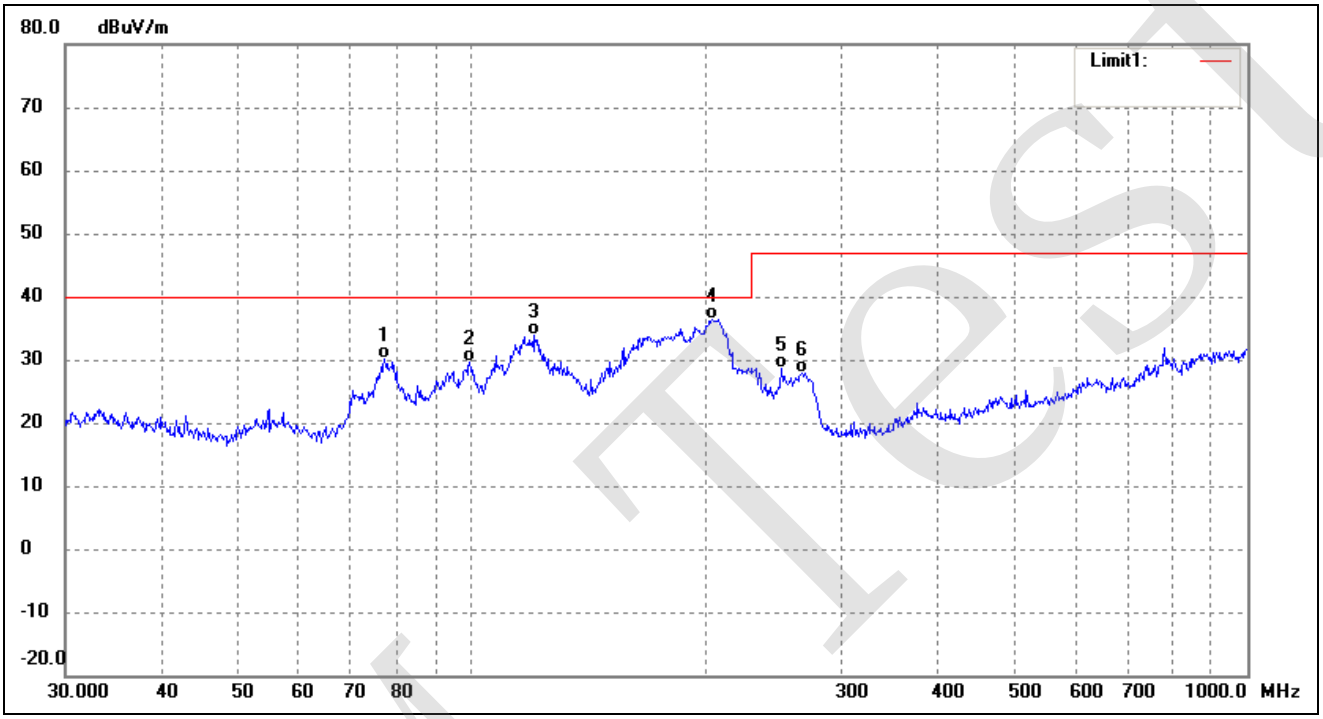
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.1795	21.47	8.41	29.88	40.00	-10.12	360	100	peak
2	37.8121	22.84	9.33	32.17	40.00	-7.83	360	100	peak
3	54.0711	23.17	6.24	29.41	40.00	-10.59	360	100	peak
4	75.7114	28.53	1.91	30.44	40.00	-9.56	360	100	peak
5	94.0979	23.81	5.37	29.18	40.00	-10.82	360	100	peak

SEM Test

Plot of Radiated Emissions Test Data

EUT: *POWER SUPPLY*
Tested Model: *GTM41133-9016-1.0-T3A*
Operating Condition: *TM2*
Comment: *AC 230V/50Hz*

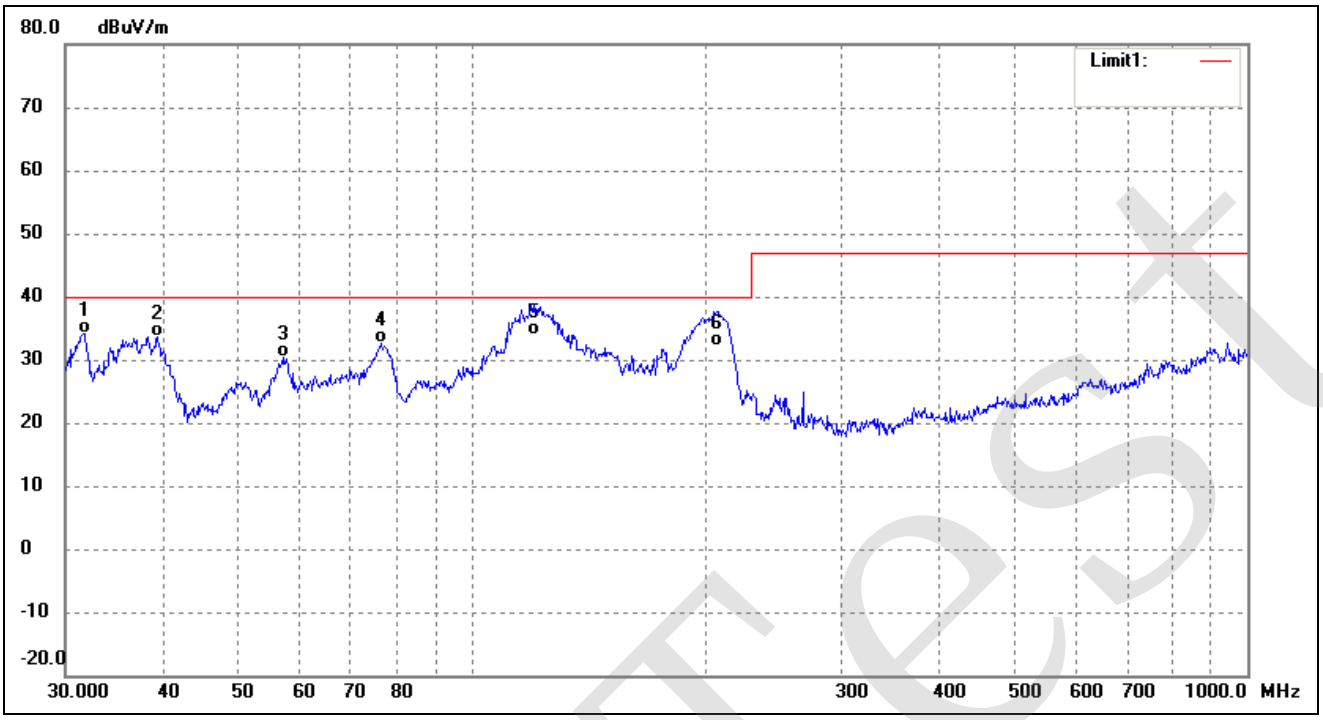
Test Specification: *Horizontal*



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	77.3212	46.25	-16.07	30.18	40.00	-9.82			QP
2	99.5281	41.01	-11.50	29.51	40.00	-10.49			QP
3	120.6991	47.62	-13.74	33.88	40.00	-6.12			QP
4	204.2375	48.27	-11.78	36.49	40.00	-3.51			QP
5	251.1804	39.01	-10.45	28.56	47.00	-18.44			QP
6	266.6089	37.86	-9.88	27.98	47.00	-19.02			QP

STR Test

Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	31.7313	46.41	-12.30	34.11	40.00	-5.89			QP
2	39.4371	44.12	-10.53	33.59	40.00	-6.41			QP
3	57.1914	43.06	-12.76	30.30	40.00	-9.70			QP
4	76.5121	50.03	-17.49	32.54	40.00	-7.46			QP
5	120.6991	47.64	-13.74	33.90	40.00	-6.10			QP
6	207.1226	44.02	-11.92	32.10	40.00	-7.90			QP

SEMTEST

5. Harmonic Current Emissions

5.1 Test Procedure

Test is conducting under the description of EN61000-3-2.

5.2 Test Standards

EN61000-3-2, Clause 7.1 Limits for Class A equipment.

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	48%
ATM Pressure:	1022 mbar

5.3 Harmonic Current Emissions Test Data

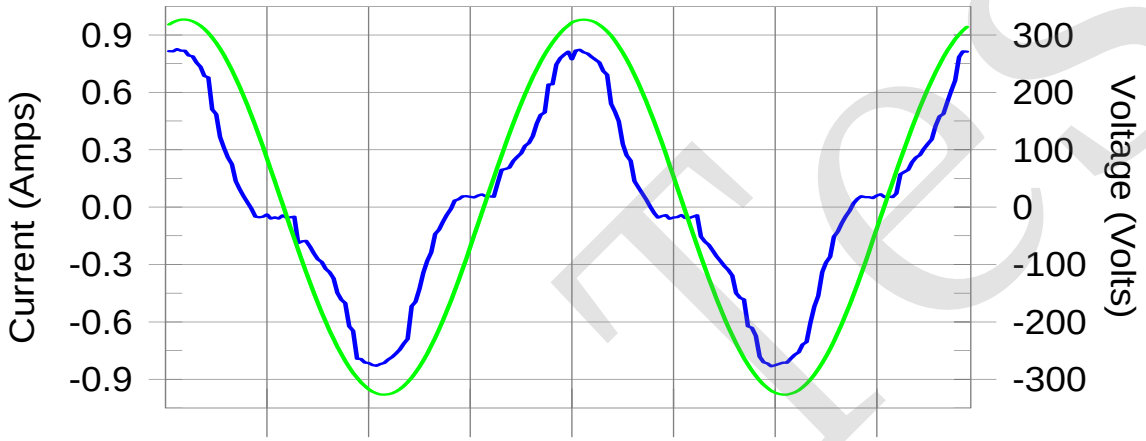
SEM.test

Harmonics – Class-A per Ed. 3.2 (2009)(Run time)

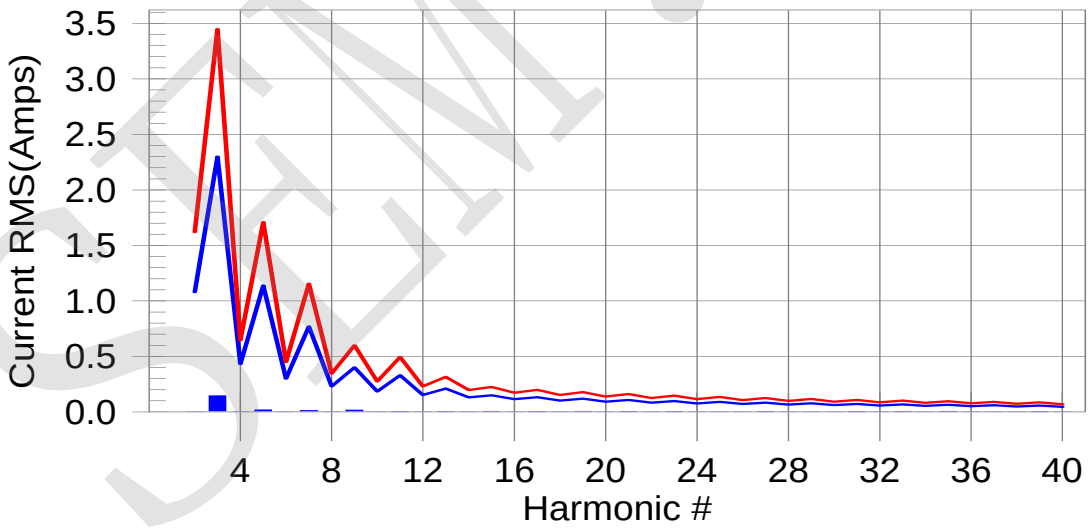
EUT: GTM41133-9048-11.0-T2 **Tested by: Daniel**
Test category: Class-A per Ed. 3.2 (2009) (European limits) **Test Margin: 100**
Test date: 2013-5-31 **Start time: 04:05:43 PM** **End time: 04:08:27 PM**
Test duration (min): 2.5 **Data file name: H-000596.cts_data**
Comment: Working
Customer: GlobTek, Inc.

Test Result: Pass **Source qualification: Normal**

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass **Worst harmonic was #35 with 9.01% of the limit.**

Current Test Result Summary (Run time)

EUT: GTM41133-9048-11.0-T2 **Tested by: Daniel**
Test category: Class-A per Ed. 3.2 (2009) (European limits) **Test Margin: 100**
Test date: 2013-5-31 **Start time: 04:05:43 PM** **End time: 04:08:27 PM**
Test duration (min): 2.5 **Data file name: H-000596.cts_data**
Comment: Working
Customer: GlobTek, Inc.

Test Result: Pass **Source qualification: Normal**
THC(A): 0.15 **I-THD(%): 32.28** **POHC(A): 0.006** **POHC Limit(A): 0.316**
Highest parameter values during test:

V_RMS (Volts):	**231.42**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**0.883**	**I_RMS (Amps):**	**0.483**
I_Fund (Amps):	**0.459**	**Crest Factor:**	**1.835**
Power (Watts):	**104.3**	**Power Factor:**	**0.935**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	0.0	0.001	1.620	0.05	Pass
3	0.145	2.300	6.3	0.145	3.450	4.22	Pass
4	0.001	0.430	0.0	0.001	0.645	0.10	Pass
5	0.018	1.140	1.6	0.018	1.710	1.06	Pass
6	0.000	0.300	0.0	0.000	0.450	0.07	Pass
7	0.014	0.770	1.9	0.014	1.155	1.25	Pass
8	0.000	0.230	0.0	0.000	0.345	0.06	Pass
9	0.017	0.400	4.2	0.017	0.600	2.82	Pass
10	0.000	0.184	0.0	0.000	0.276	0.10	Pass
11	0.004	0.330	0.0	0.005	0.495	0.92	Pass
12	0.000	0.153	0.0	0.000	0.230	0.12	Pass
13	0.003	0.210	0.0	0.003	0.315	1.07	Pass
14	0.000	0.131	0.0	0.000	0.197	0.10	Pass
15	0.005	0.150	3.5	0.005	0.225	2.40	Pass
16	0.000	0.115	0.0	0.000	0.173	0.12	Pass
17	0.003	0.132	0.0	0.004	0.199	1.76	Pass
18	0.000	0.102	0.0	0.000	0.153	0.15	Pass
19	0.006	0.118	4.9	0.006	0.178	3.30	Pass
20	0.000	0.092	0.0	0.000	0.138	0.16	Pass
21	0.002	0.107	0.0	0.002	0.161	1.43	Pass
22	0.000	0.084	0.0	0.000	0.125	0.17	Pass
23	0.004	0.098	0.0	0.004	0.147	2.52	Pass
24	0.000	0.077	0.0	0.000	0.115	0.18	Pass
25	0.002	0.090	0.0	0.002	0.135	1.36	Pass
26	0.000	0.071	0.0	0.000	0.106	0.31	Pass
27	0.003	0.083	0.0	0.003	0.125	2.45	Pass

STR Test

28	0.001	0.066	0.0	0.001	0.099	0.69	Pass
29	0.001	0.078	0.0	0.001	0.116	1.25	Pass
30	0.000	0.061	0.0	0.000	0.092	0.49	Pass
31	0.003	0.073	0.0	0.003	0.109	2.91	Pass
32	0.001	0.058	0.0	0.001	0.086	0.75	Pass
33	0.004	0.068	0.0	0.004	0.102	4.12	Pass
34	0.000	0.054	0.0	0.000	0.081	0.40	Pass
35	0.006	0.064	9.0	0.006	0.096	6.12	Pass
36	0.000	0.051	0.0	0.000	0.077	0.27	Pass
37	0.002	0.061	0.0	0.002	0.091	1.92	Pass
38	0.000	0.048	0.0	0.000	0.073	0.26	Pass
39	0.004	0.058	0.0	0.004	0.087	4.18	Pass
40	0.000	0.046	0.0	0.000	0.069	0.35	Pass

SEM.Test

Voltage Source Verification Data (Run time)

EUT: GTM41133-9048-11.0-T2 **Tested by: Daniel**
Test category: Class-A per Ed. 3.2 (2009) (European limits) **Test Margin: 100**
Test date: 2013-5-31 **Start time: 04:05:43 PM** **End time: 04:08:27 PM**
Test duration (min): 2.5 **Data file name: H-000596.cts_data**
Comment: Working
Customer: GlobTek, Inc.

Test Result: Pass **Source qualification: Normal**

Highest parameter values during test:

Voltage (Vrms):	**231.42**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**0.883**	**I_RMS (Amps):**	**0.483**
I_Fund (Amps):	**0.459**	**Crest Factor:**	**1.835**
Power (Watts):	**104.3**	**Power Factor:**	**0.935**

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.060	0.463	12.98	OK
3	0.590	2.082	28.35	OK
4	0.060	0.463	12.88	OK
5	0.065	0.925	7.01	OK
6	0.035	0.463	7.54	OK
7	0.026	0.694	3.76	OK
8	0.014	0.463	3.10	OK
9	0.012	0.463	2.50	OK
10	0.010	0.463	2.07	OK
11	0.018	0.231	7.79	OK
12	0.009	0.231	3.99	OK
13	0.009	0.231	3.98	OK
14	0.005	0.231	2.09	OK
15	0.007	0.231	3.11	OK
16	0.008	0.231	3.39	OK
17	0.012	0.231	5.13	OK
18	0.009	0.231	3.89	OK
19	0.009	0.231	3.93	OK
20	0.015	0.231	6.27	OK
21	0.007	0.231	3.19	OK
22	0.005	0.231	2.16	OK
23	0.007	0.231	2.91	OK
24	0.003	0.231	1.11	OK
25	0.004	0.231	1.92	OK
26	0.002	0.231	0.93	OK
27	0.008	0.231	3.30	OK

SEM.TEST

28	**0.004**	**0.231**	**1.66**	**OK**
29	**0.007**	**0.231**	**3.03**	**OK**
30	**0.003**	**0.231**	**1.41**	**OK**
31	**0.005**	**0.231**	**2.04**	**OK**
32	**0.003**	**0.231**	**1.18**	**OK**
33	**0.006**	**0.231**	**2.79**	**OK**
34	**0.002**	**0.231**	**1.00**	**OK**
35	**0.010**	**0.231**	**4.28**	**OK**
36	**0.002**	**0.231**	**0.85**	**OK**
37	**0.003**	**0.231**	**1.39**	**OK**
38	**0.002**	**0.231**	**0.86**	**OK**
39	**0.008**	**0.231**	**3.65**	**OK**
40	**0.008**	**0.231**	**3.37**	**OK**

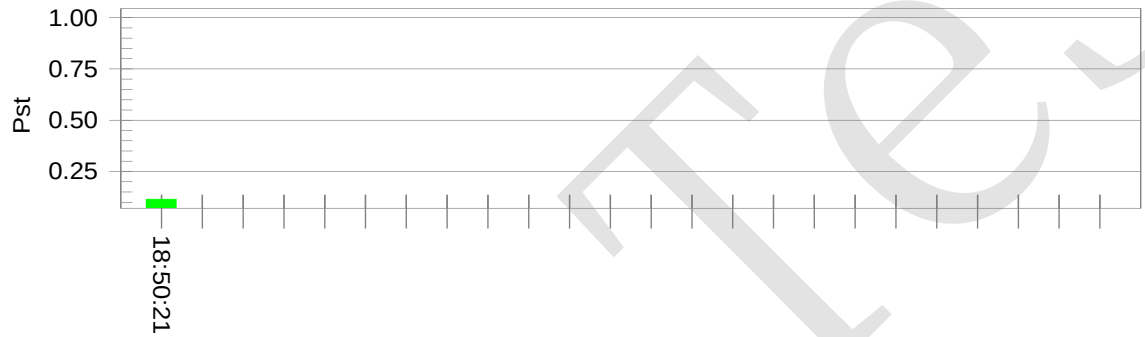
SEM.test

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

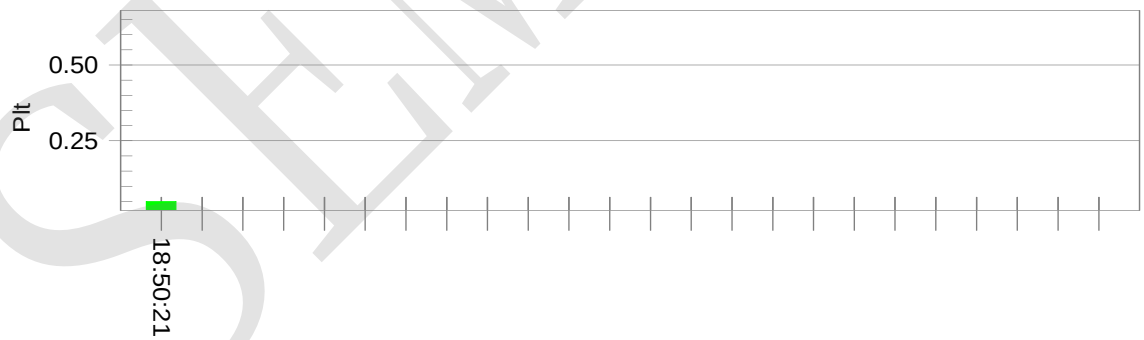
EUT: GTM41133-9016-1.0-T3A **Tested by: Jeffry**
Test category: All parameters (European limits) **Test Margin: 100**
Test date: 2016-12-20 **Start time: 06:40:01 PM** **End time: 06:50:22 PM**
Test duration (min): 10 **Data file name: F-000015.cts_data**
Comment: Working
Customer: GlobTek,Inc.

Test Result: Pass **Status: Test Completed**

Pst_i and limit line **European Limits**



Plt and limit line



Parameter values recorded during the test:
Vrms at the end of test (Volt): 229.62

Highest dt (%):	**1.48**	**Test limit (%):**	**3.30**	**Pass**
Time(mS) > dt:	**0.0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**1.34**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.115**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.050**	**Test limit:**	**0.650**	**Pass**

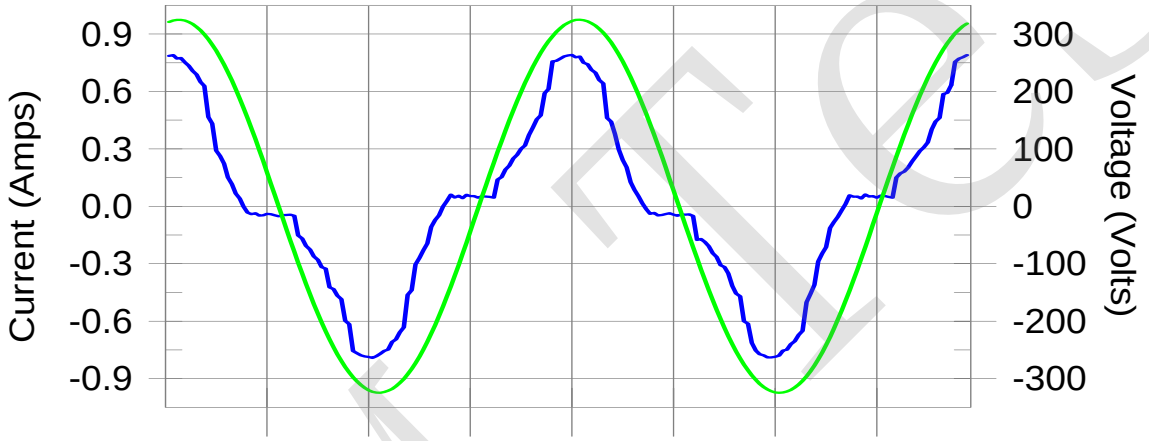
SEM.Test

Harmonics – Class-A per Ed. 3.2(Run time)

EUT: GTM41133-9016-1.0-T3A **Tested by: Jeffry**
Test category: Class-A per Ed. 3.2 (European limits) **Test Margin: 100**
Test date: 2016-12-20 **Start time: 06:36:30 PM** **End time: 06:37:51 PM**
Test duration (min): 1 **Data file name: H-000014.cts_data**
Comment: Working
Customer: GlotbTek,Inc.

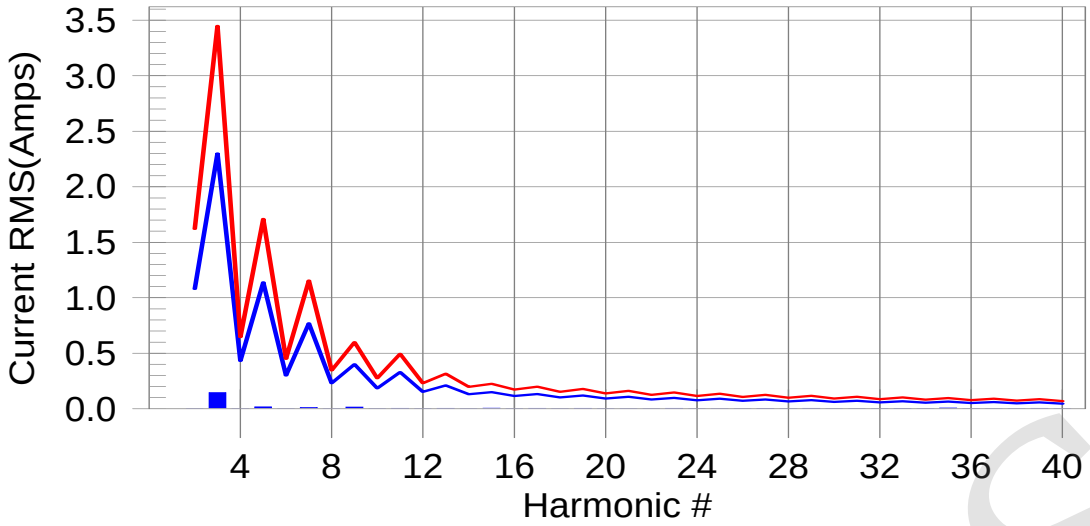
Test Result: Pass **Source qualification: Normal**

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**

SEM.TEST



Test result: Pass Worst harmonic was #35 with 10.18% of the limit.

SEM. Test

Current Test Result Summary (Run time)

EUT: GTM41133-9016-1.0-T3A **Tested by: Jeffry**
Test category: Class-A per Ed. 3.2 (European limits) **Test Margin: 100**
Test date: 2016-12-20 **Start time: 06:36:30 PM** **End time: 06:37:51 PM**
Test duration (min): 1 **Data file name: H-000014.cts_data**
Comment: Working
Customer: GlotbTek,Inc.

Test Result: Pass **Source qualification: Normal**
THC(A): 0.15 **I-THD(%): 34.03** **POHC(A): 0.007** **POHC Limit(A): 0.316**
Highest parameter values during test:

V_RMS (Volts):	**229.80**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**0.805**	**I_RMS (Amps):**	**0.455**
I_Fund (Amps):	**0.430**	**Crest Factor:**	**1.775**
Power (Watts):	**96.9**	**Power Factor:**	**0.930**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	0.0	0.001	1.620	0.05	Pass
3	0.144	2.300	6.2	0.145	3.450	4.20	Pass
4	0.000	0.430	0.0	0.001	0.645	0.09	Pass
5	0.017	1.140	1.5	0.017	1.710	1.01	Pass
6	0.000	0.300	0.0	0.000	0.450	0.05	Pass
7	0.011	0.770	1.4	0.011	1.155	0.97	Pass
8	0.000	0.230	0.0	0.000	0.345	0.05	Pass
9	0.015	0.400	3.9	0.016	0.600	2.60	Pass
10	0.000	0.184	0.0	0.000	0.276	0.07	Pass
11	0.005	0.330	1.5	0.005	0.495	1.02	Pass
12	0.000	0.153	0.0	0.000	0.230	0.08	Pass
13	0.004	0.210	0.0	0.004	0.315	1.41	Pass
14	0.000	0.131	0.0	0.000	0.197	0.06	Pass
15	0.005	0.150	3.6	0.005	0.225	2.43	Pass
16	0.000	0.115	0.0	0.000	0.173	0.07	Pass
17	0.005	0.132	0.0	0.005	0.199	2.43	Pass
18	0.000	0.102	0.0	0.000	0.153	0.09	Pass
19	0.003	0.118	0.0	0.003	0.178	1.79	Pass
20	0.000	0.092	0.0	0.000	0.138	0.12	Pass
21	0.001	0.107	0.0	0.001	0.161	0.77	Pass
22	0.000	0.084	0.0	0.000	0.125	0.10	Pass
23	0.004	0.098	0.0	0.004	0.147	2.92	Pass
24	0.000	0.077	0.0	0.000	0.115	0.11	Pass
25	0.002	0.090	0.0	0.002	0.135	1.53	Pass
26	0.000	0.071	0.0	0.000	0.106	0.21	Pass
27	0.002	0.083	0.0	0.002	0.125	1.73	Pass

STR Test

28	0.000	0.066	0.0	0.000	0.099	0.50	Pass
29	0.004	0.078	0.0	0.004	0.116	3.55	Pass
30	0.000	0.061	0.0	0.000	0.092	0.29	Pass
31	0.001	0.073	0.0	0.001	0.109	1.36	Pass
32	0.000	0.058	0.0	0.000	0.086	0.56	Pass
33	0.003	0.068	0.0	0.003	0.102	2.90	Pass
34	0.000	0.054	0.0	0.000	0.081	0.26	Pass
35	0.007	0.064	10.2	0.007	0.096	6.90	Pass
36	0.000	0.051	0.0	0.000	0.077	0.14	Pass
37	0.001	0.061	0.0	0.001	0.091	0.82	Pass
38	0.000	0.048	0.0	0.000	0.073	0.16	Pass
39	0.004	0.058	0.0	0.004	0.087	4.39	Pass
40	0.000	0.046	0.0	0.000	0.069	0.25	Pass

SEM.Test

Voltage Source Verification Data (Run time)

EUT: GTM41133-9016-1.0-T3A **Tested by: Jeffry**
Test category: Class-A per Ed. 3.2 (European limits) **Test Margin: 100**
Test date: 2016-12-20 **Start time: 06:36:30 PM** **End time: 06:37:51 PM**
Test duration (min): 1 **Data file name: H-000014.cts_data**
Comment: Working
Customer: GlotbTek,Inc.

Test Result: Pass **Source qualification: Normal**

Highest parameter values during test:

Voltage (Vrms):	**229.80**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**0.805**	**I_RMS (Amps):**	**0.455**
I_Fund (Amps):	**0.430**	**Crest Factor:**	**1.775**
Power (Watts):	**96.9**	**Power Factor:**	**0.930**

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.060	0.459	13.00	OK
3	0.566	2.068	27.39	OK
4	0.056	0.459	12.18	OK
5	0.058	0.919	6.34	OK
6	0.033	0.460	7.18	OK
7	0.026	0.689	3.81	OK
8	0.013	0.459	2.91	OK
9	0.011	0.459	2.47	OK
10	0.011	0.459	2.33	OK
11	0.017	0.230	7.24	OK
12	0.009	0.230	3.88	OK
13	0.008	0.230	3.36	OK
14	0.004	0.230	1.96	OK
15	0.009	0.230	3.78	OK
16	0.009	0.230	3.97	OK
17	0.012	0.230	5.01	OK
18	0.009	0.230	4.06	OK
19	0.008	0.230	3.58	OK
20	0.014	0.230	6.30	OK
21	0.007	0.230	3.14	OK
22	0.005	0.230	2.02	OK
23	0.008	0.230	3.46	OK
24	0.003	0.230	1.30	OK
25	0.004	0.230	1.77	OK
26	0.002	0.230	1.04	OK
27	0.006	0.230	2.77	OK

SEM.Test

28	**0.003**	**0.230**	**1.39**	**OK**
29	**0.007**	**0.230**	**3.10**	**OK**
30	**0.003**	**0.230**	**1.35**	**OK**
31	**0.005**	**0.230**	**2.00**	**OK**
32	**0.002**	**0.230**	**0.84**	**OK**
33	**0.006**	**0.230**	**2.51**	**OK**
34	**0.002**	**0.230**	**0.77**	**OK**
35	**0.010**	**0.230**	**4.31**	**OK**
36	**0.002**	**0.230**	**0.77**	**OK**
37	**0.004**	**0.230**	**1.88**	**OK**
38	**0.002**	**0.230**	**1.00**	**OK**
39	**0.007**	**0.230**	**3.11**	**OK**
40	**0.008**	**0.230**	**3.35**	**OK**

SEM.Test

7. Electrostatic Discharges (ESD)

7.1 Test Procedure

Test is conducting under the description of IEC61000-4-2.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

7.2 Electrostatic Discharge Immunity Test Data

Model No: GTM41133-9048-11.0-T2; GTM41133-9016-1.0-T3A

Test Standards: EN60601

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Surface	A	A	A	A	A	A	A	A	A	A
Port	A	A	A	A	A	A	A	A	A	A

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Metal Part	A	A	A	A	A	A	A	A		

SEM Test

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A	A	A	A	A		
Top Side	A	A	A	A	A	A	A	A		
Back Side	A	A	A	A	A	A	A	A		
Left Side	A	A	A	A	A	A	A	A		
Right Side	A	A	A	A	A	A	A	A		

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A	A	A	A	A		
Top Side	A	A	A	A	A	A	A	A		
Back Side	A	A	A	A	A	A	A	A		
Left Side	A	A	A	A	A	A	A	A		
Right Side	A	A	A	A	A	A	A	A		

Test Standards: EN55024

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Slots	A	A	A	A	A	A	A	A		
Surface	A	A	A	A	A	A	A	A		

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Metal Part	A	A	A	A	/	/	/	/		

SHT TEST

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A						
Top Side	A	A	A	A						
Back Side	A	A	A	A						
Left Side	A	A	A	A						
Right Side	A	A	A	A						

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

EN 61000-4-2	Test Levels (Kv)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A						
Top Side	A	A	A	A						
Back Side	A	A	A	A						
Left Side	A	A	A	A						
Right Side	A	A	A	A						

SEM. TEST

8. Continuous Radiated Disturbances (R/S)

8.1 Test Procedure

Test is conducting under the description of IEC61000-4-3.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1010 mbar

8.2 Continuous Radiated Disturbances Test Data

Frequency step: 1% of fundamental
Dwell time: 1 second
Modulation: AM by 1kHz sine wave with 80% modulation depth
Model No: GTM41133-9048-11.0-T2; GTM41133-9016-1.0-T3A
Test Standard(s): EN60601

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-2700	10	A	A	A	A	A	A	A	A

Modulation: Pulse modulation, 50% duty cycle, repetition frequency 18Hz

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
380-390	35	A	A	A	A	A	A	A	A
430-470	28	A	A	A	A	A	A	A	A
800-960	28	A	A	A	A	A	A	A	A

STM Test

Modulation: Pulse modulation, 50% duty cycle, repetition frequency 217Hz

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
140-170	24	A	A	A	A	A	A	A	A
704-787	9	A	A	A	A	A	A	A	A
1700-1990	28	A	A	A	A	A	A	A	A
2400-2570	28	A	A	A	A	A	A	A	A
5100-5800	9	A	A	A	A	A	A	A	A

Test Standard(s): EN55024

Frequency Range(MHz)	**Field (V/m)**	**Front**		**Rear**		**Left Side**		**Right Side**	
		VERT	**HORI**	**VERT**	**HORI**	**VERT**	**HORI**	**VERT**	**HORI**
80-1000	3	A	A	A	A	A	A	A	A

Test Result: Pass

SEM Test

9. Electrical Fast Transients (EFT)

9.1 Test Procedure

Test is conducting under the description of IEC61000-4-4.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

9.2 Electrical Fast Transients Test Data

GTM41133-9048-11.0-T2

Test Standard(s): EN55024

EN 61000-4-4 Test Points		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L1	A	A	A	A	/	/	/	/
	L2	A	A	A	A	/	/	/	/
	PE	A	A	A	A	/	/	/	/
	L1+L2	A	A	A	A	/	/	/	/
	L1 + PE	A	A	A	A	/	/	/	/
	L2 + PE	A	A	A	A	/	/	/	/
	L1+L2+PE	A	A	A	A	/	/	/	/
Signal ports		/	/	/	/	/	/	/	/

SEMTEST

Test Standard(s): EN60601

EN 61000-4-4 Test Points		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L1	A	A	A	A	B	B	/	/
	L2	A	A	A	A	B	B	/	/
	PE	/	/	/	/	/	/	/	/
	L1+L2	A	A	A	A	B	B	/	/
	L1 + PE	/	/	/	/	/	/	/	/
	L2 + PE	/	/	/	/	/	/	/	/
	L1+L2+PE	/	/	/	/	/	/	/	/
Signal ports		/	/	/	/	/	/	/	/

GTM41133-9016-1.0-T3A

Test Standard(s): EN55024

EN 61000-4-4 Test Points		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L1	A	A	A	A	/	/	/	/
	L2	A	A	A	A	/	/	/	/
	PE	A	A	A	A	/	/	/	/
	L1+L2	A	A	A	A	/	/	/	/
	L1 + PE	A	A	A	A	/	/	/	/
	L2 + PE	A	A	A	A	/	/	/	/
	L1+L2+PE	A	A	A	A	/	/	/	/
Signal ports		/	/	/	/	/	/	/	/

SEM Test

Test Standard(s): EN60601

EN 61000-4-4 Test Points		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L1	A	A	A	A	A	A	/	/
	L2	A	A	A	A	A	A	/	/
	PE	A	A	A	A	A	A	/	/
	L1+L2	A	A	A	A	A	A	/	/
	L1 + PE	A	A	A	A	A	A	/	/
	L2 + PE	A	A	A	A	A	A	/	/
	L1+L2+PE	A	A	A	A	A	A	/	/
Signal ports		/	/	/	/	/	/	/	/

SEM Test

10. Surges

10.1 Test Procedure

Test is conducting under the description of IEC 61000-4-5.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

10.2 Surge Test Data

Model No: GTM41133-9048-11.0-T2; GTM41133-9016-1.0-T3A

Test Standard(s): EN55024/EN60601

Level	Voltage	Poll	Path	Pass	Fail
1	0.5kV	±	L-N	A	/
2	1kV	±	L-N	A	/
3	2kV	±	L-PE, N-PE	B	/
4	4kV	±	L-N, L-PE, N-PE	/	/

Test Result: Pass

SEM.test

11. Continuous Conducted Disturbances (C/S)

11.1 Test Procedure

Test is conducting under the description of IEC 61000-4-6.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

11.2 Continuous Conducted Disturbances Test Data

Sweep frequency range: 150kHz~80MHz
Frequency step: 1% of fundamental
Dwell time: 1 second
Model No: GTM41133-9048-11.0-T2; GTM41133-9016-1.0-T3A
Test Standard(s): EN55024/EN60601

Level	Voltage Level (e.m.f.) U_0	Modulation:	Pass	Fail
1	1	AM 80%, 1kHz sinewave	/	/
2	3	AM 80%, 1kHz sinewave	A	/
3	10	AM 80%, 1kHz sinewave	A	/
X	Special	/	/	/

Test Result: Pass

SEM.Test

12. Voltage Dips and Interruptions

12.1 Test Procedure

Test is conducting under the description of IEC 61000-4-11.

Test Performance

Performance Criterion: B/C

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	1011 mbar

12.2 Voltage Dips And Interruptions Test Data

U: Vlotage dips in % U_T (U_T is rated voltage for the EUT)
T: Test duration
Model No: GTM41133-9048-11.0-T2; GTM41133-9016-1.0-T3A
Test Standard(s): EN60601

Level	U	T	Phase Angle	N	Pass	Fail
1	100%	10ms	0/90/180/270	3	B	/
2	100%	20ms	0/90/180/270	3	B	/
3	30%	500ms	0/90/180/270	3	B	/
4	100%	5000ms	0/90/180/270	3	B	/

Test Standard(s): EN55024

Level	U	T	Phase Angle	N	Pass	Fail
1	100%	10ms	0/90/180/270	3	A	/
2	100%	20ms	0/90/180/270	3	B	/
3	30%	500ms	0/90/180/270	3	B	/

Test Result: Pass

EXHIBIT 1 - PRODUCT LABELING

Proposed CE Label Format

Specifications: Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. The 'CE' marking must be affixed to the EUT or to its data plate. Where this is not possible or not warranted on account of the nature of the apparatus, it must be affixed to the packaging, if any, and to the accompanying documents. The 'CE' marking must have a height of at least 5 mm. If the 'CE' marking is reduced or enlarged the proportions given in the above graduated drawing must be respected.

Proposed Label Location on EUT

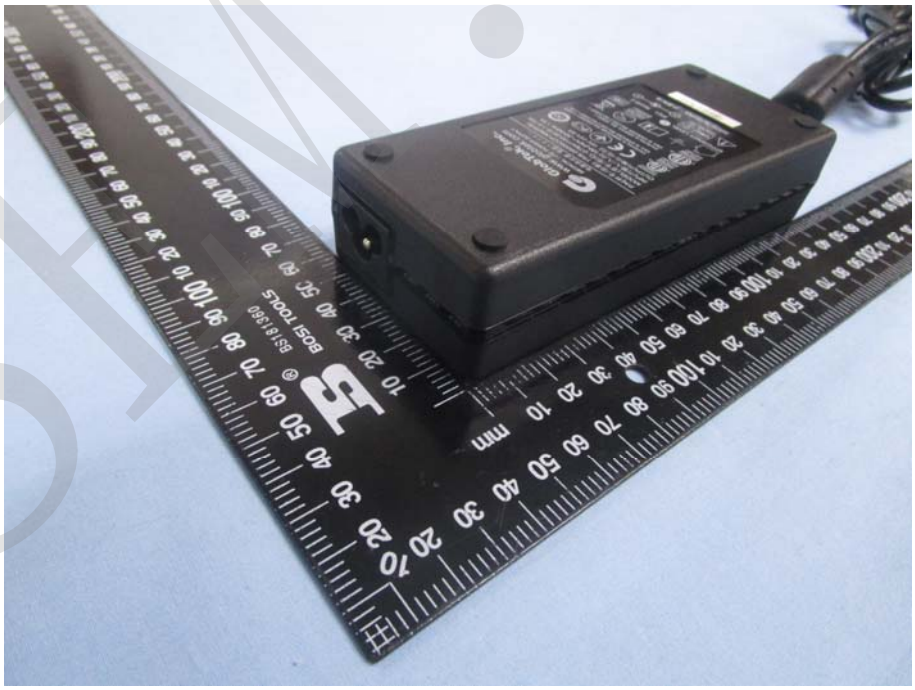
CE Label Location

CE Label Location

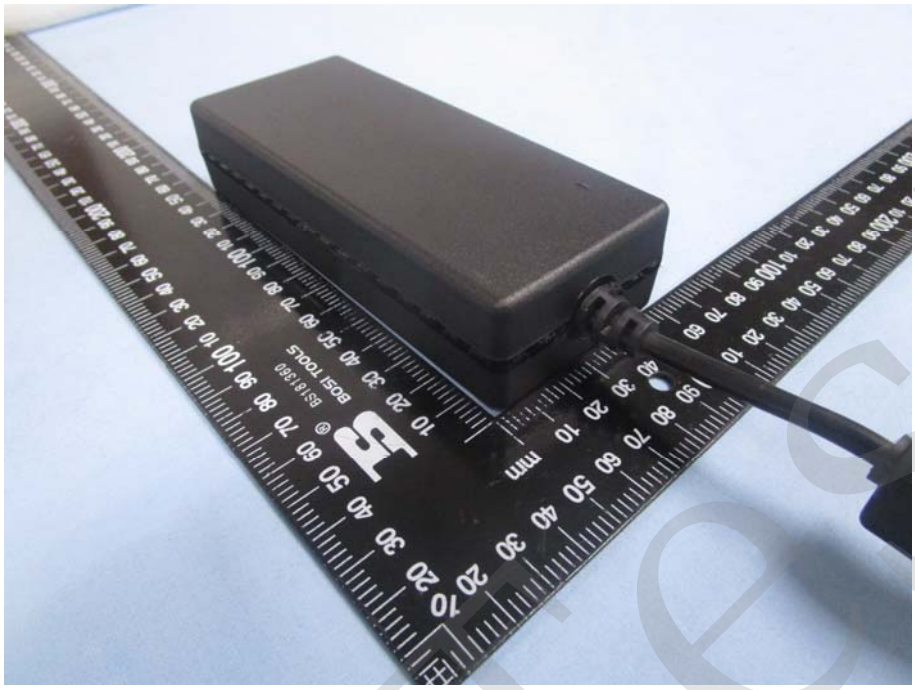
EXHIBIT 2 - EUT PHOTOGRAPHS

EUT View 1（Model: GTM41133-9016-1.0-T3A）

EUT View 2

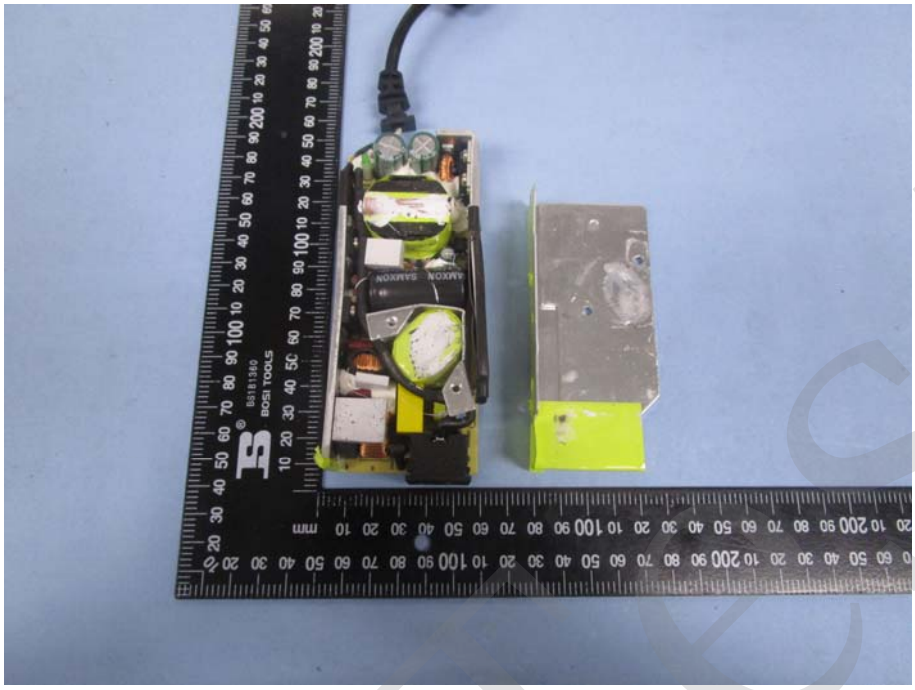


EUT View 3

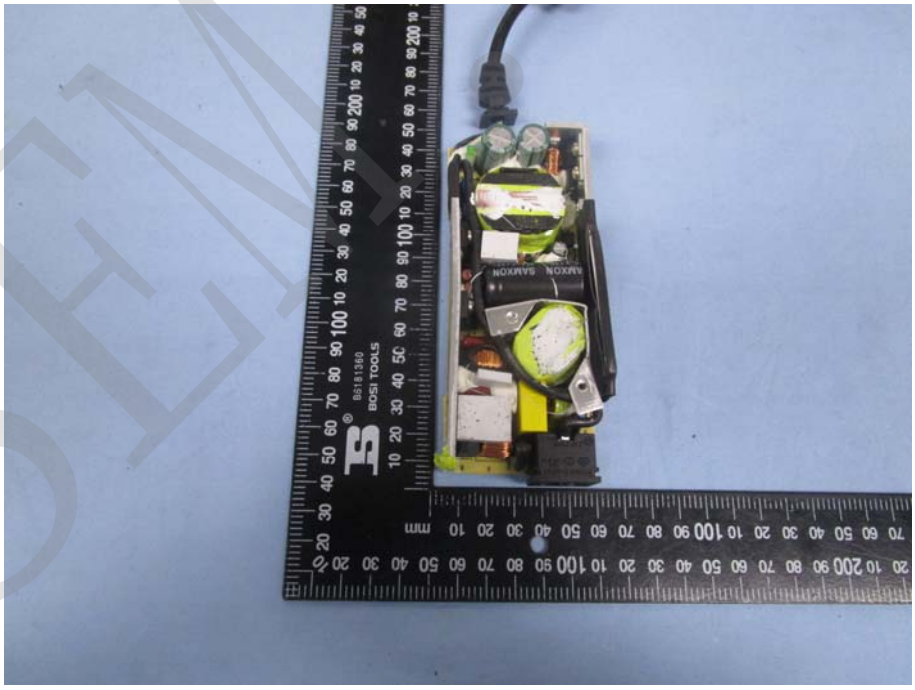


EUT Housing and Board View 1

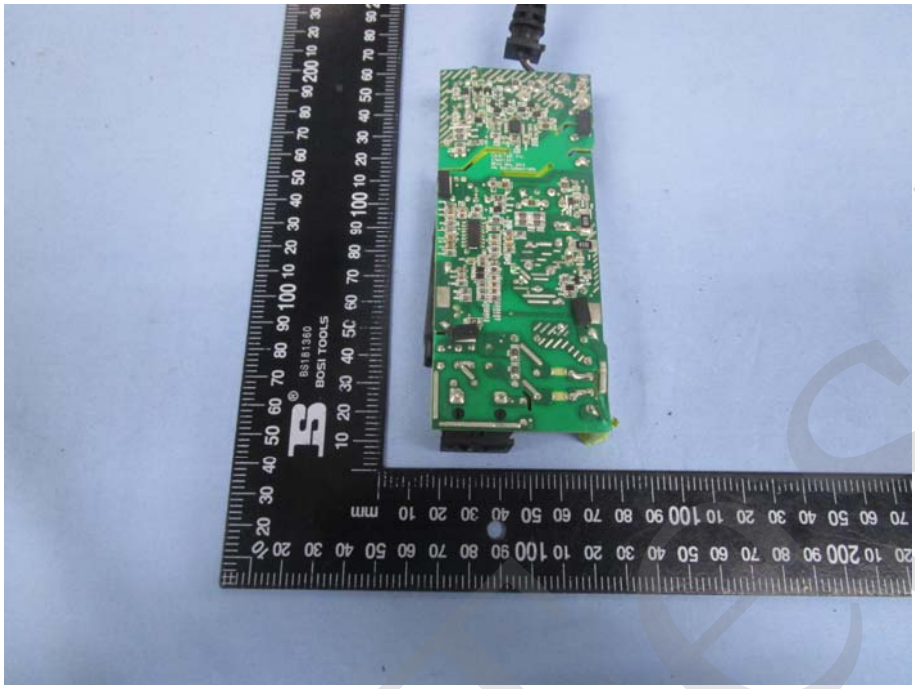
EUT Housing and Board View 2



Solder Board-Component View 1



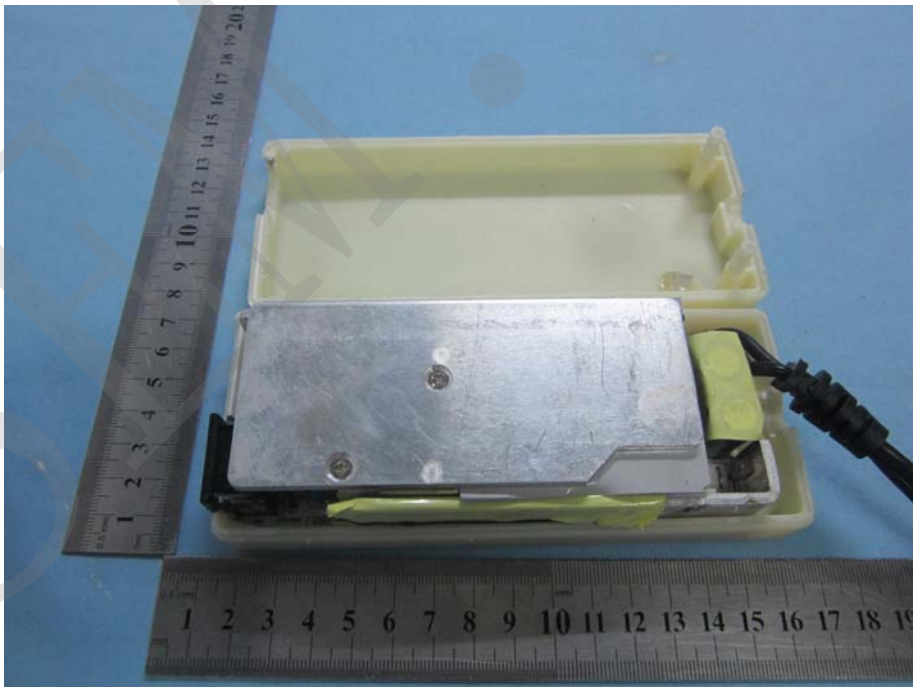
Solder Board-Component View 2



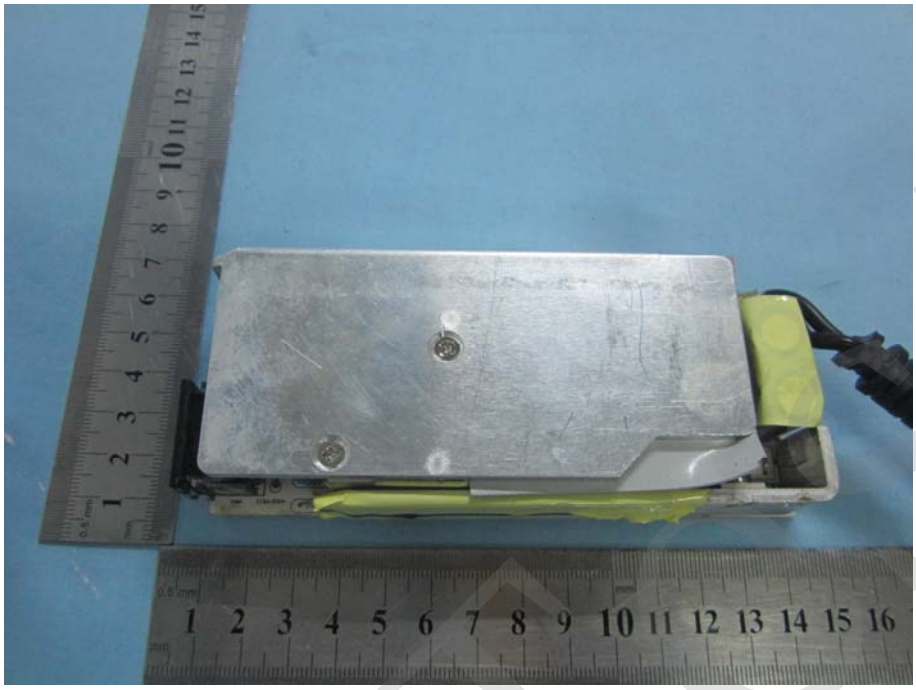
EUT View 1（Model: GTM41133-9048-11.0-T2）

EUT View 2

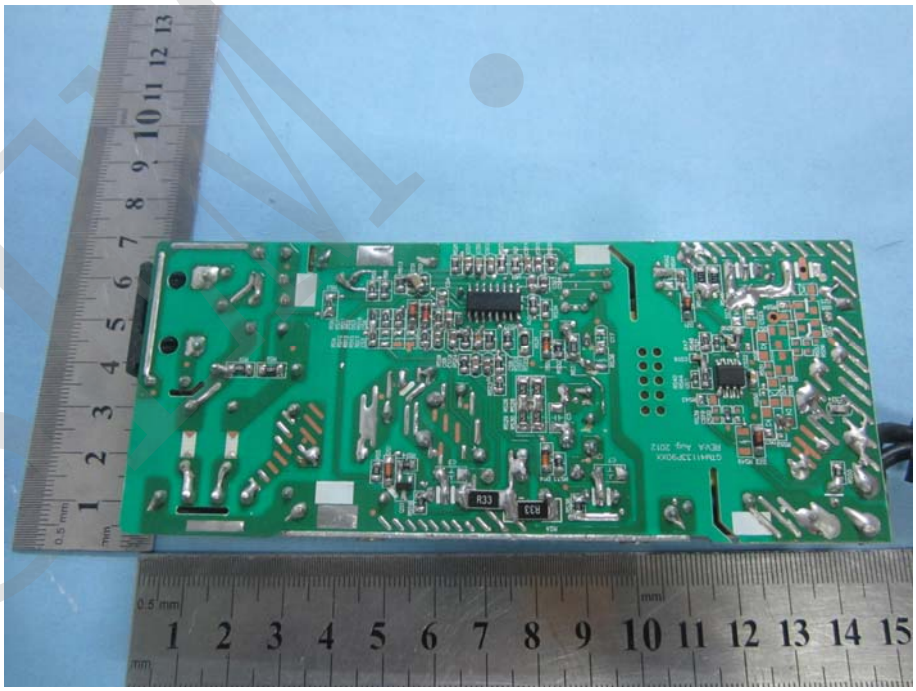
EUT Housing and Board View 1



Solder Board-Component View 1



Solder Board-Component View 2



Solder Board-Component View 3

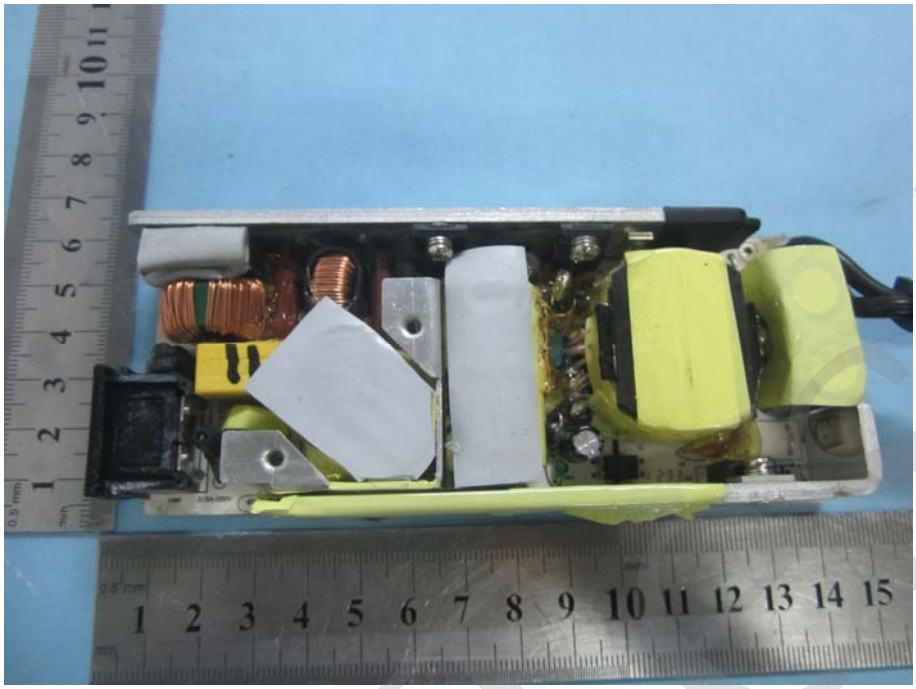
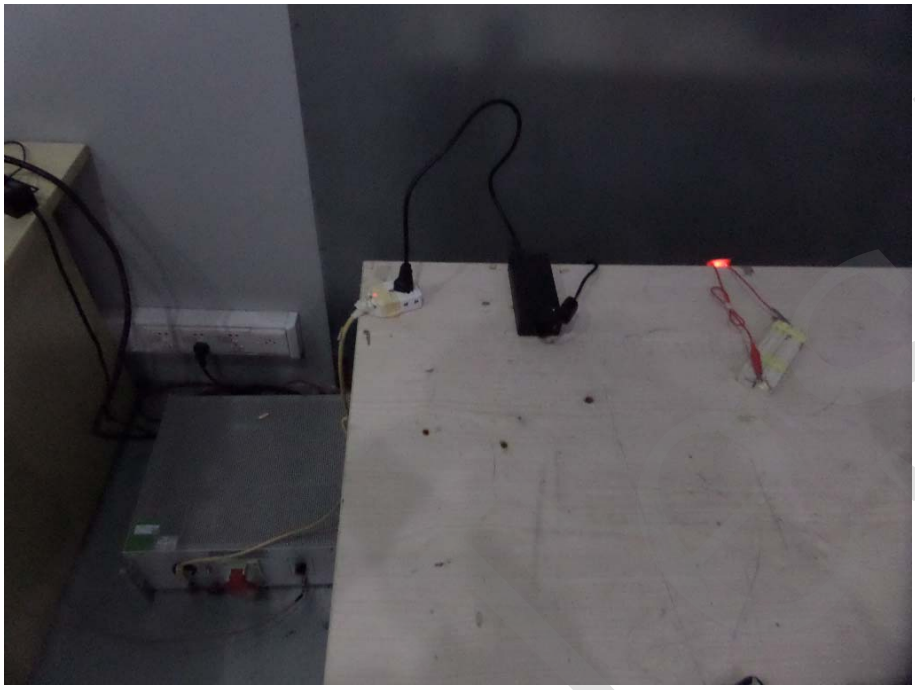


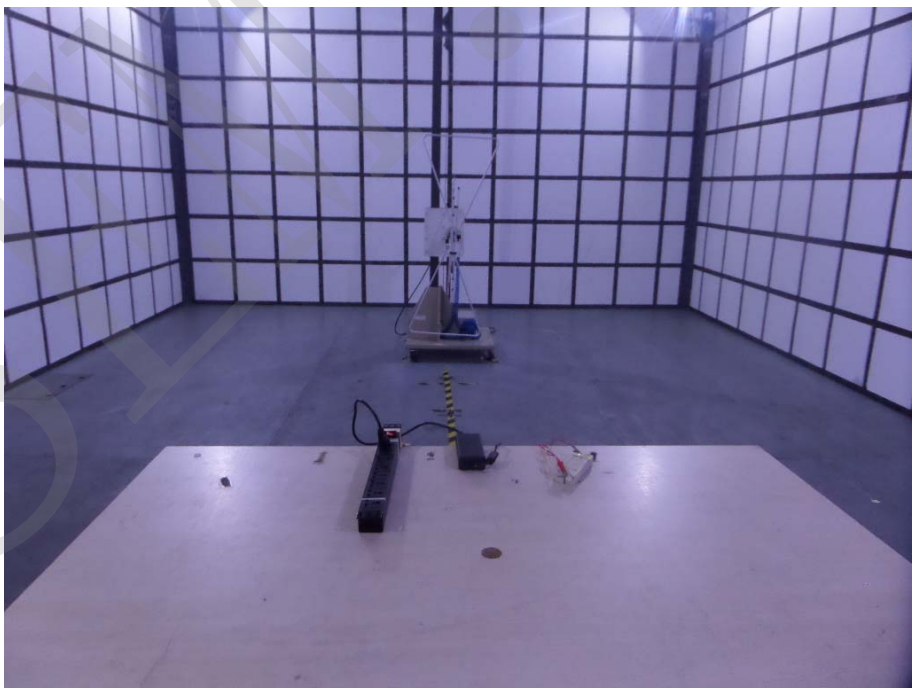
EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

GTM41133-9016-1.0-T3A

Conduction Emission Test View



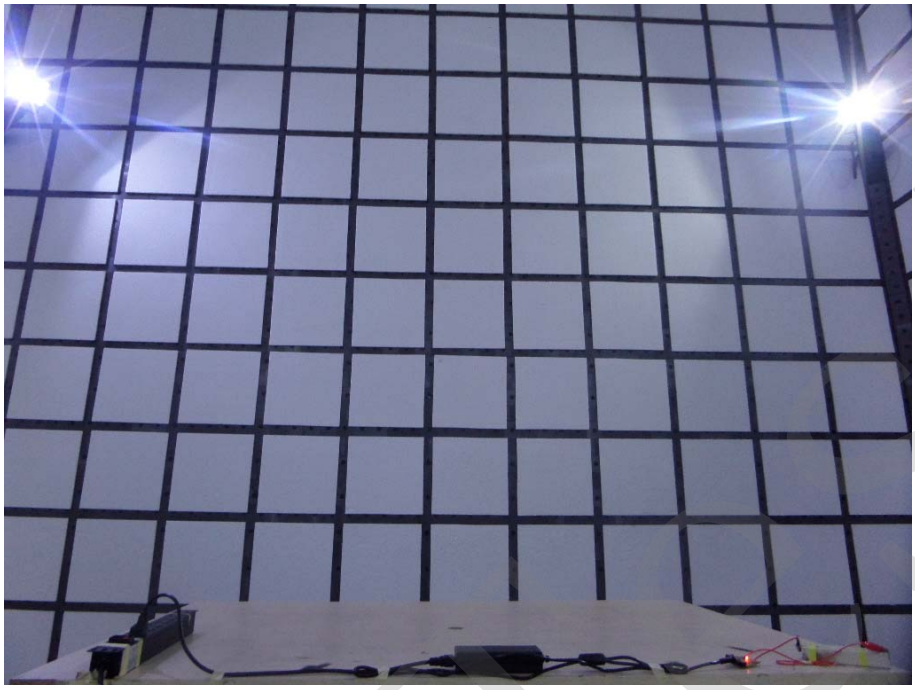
Radiation Emission Test View



Harmonic/Flicker Test View

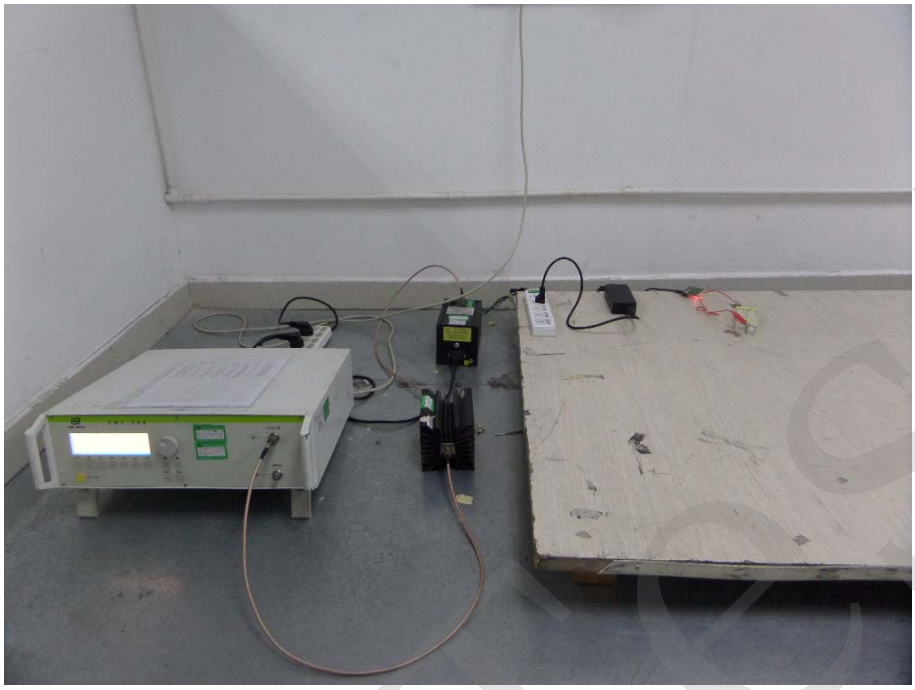
IEC61000-4-2 Test View

IEC61000-4-3 Test View



IEC61000-4-4/5/11 Test View

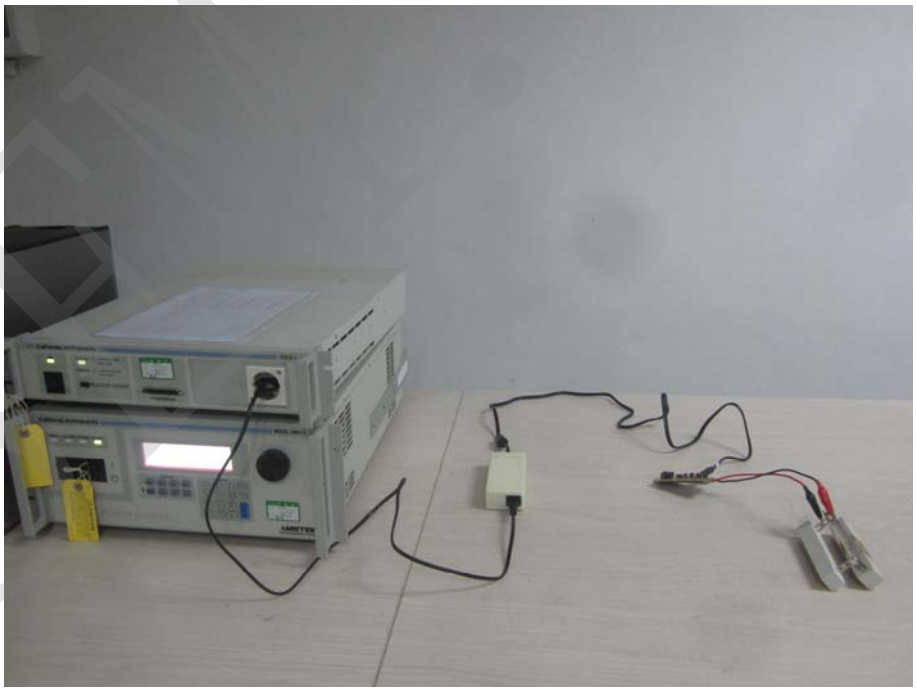
IEC61000-4-6 Test View



GTM41133-9048-11.0-T2
Conduction Emission Test View

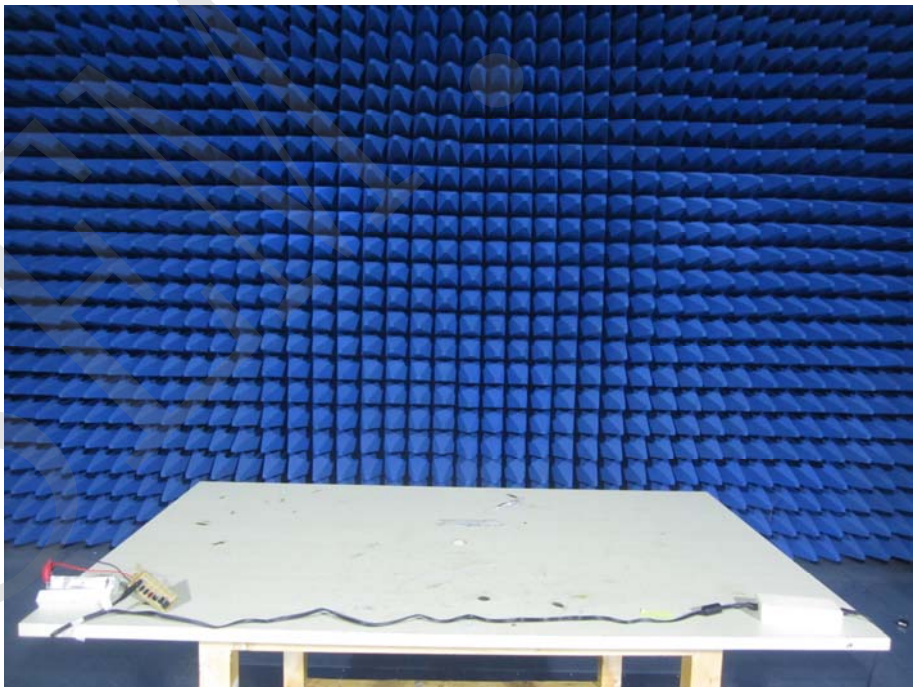
Radiation Emission Test View

Flicker Test View



IEC61000-4-2 Test View

IEC61000-4-3 Test View



IEC61000-4-4/5/11 Test View

IEC61000-4-6 Test View

******* END OF REPORT *******