TEST REPORT

Reference No.	:	WTX23X06126282E
Applicant	:	GlobTek, Inc.
Address	:	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	:	1: GlobTek, Inc. 2: GlobTek (Suzhou) Co., Ltd
Address	:	1: 186 Veterans Dr. Northvale, NJ 07647 USA 2: Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou,JiangSu 215021, China
Product Name	:	Power Supply
Model No.	:	GT*41134******, GT*96060******
Standards	:	**EN 60601-1-2:2015+A1:2021**
Date of Receipt sample	:	2023-08-05
Date of Test	:	2023-08-05 to 2023-08-14
Date of Issue	:	2023-08-15
Test Report Form No.	:	WTX_EN 60601_1_2_2015_B
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

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Approved by: Silin Chen

Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2023-08-15	Original
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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Power Supply
Trade Name:	GlobTek, Inc.
Model No.:	GT*41134******, GT*96060******
Adding Model(s):	/
*Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model GT*41134******, but the circuit and the electronic construction do not change, declared by the manufacturer.* *GT*41134******, GT*96060****** The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety. The 2nd "*" part can be "-" or "CC","-" = Constant Voltage Model, CC = Constant Current Model. The 3rd "*" denotes the rated output wattage designation, which can be "01" to "06", with interval of 1. The 4th "*" denotes the standard rated output voltage designation, which can be "03", "04", "06", "12", "15", "18", "24", "36" or "48". These standard rated output voltage designations correspond to seven isolated transformer models. The 5th "*"is optional deviation, subtracted from standard output voltage, which can be "-0.1" to "-11.9" with interval of 0.1, or blank to indicate no voltage different. The 4th "*" and 5th "*" together denote the output voltage, with a range of 3.3 - 48 volts. The 6th "*" =Blank means directly plug in model series, = "-F" means Class I open frame model with connector which is fixing on the PCB, = "-FW" means Class II open frame model with connector which is fixing on the PCB. ="-FWT2" means open frame model with appliance inlet with Class II inlet C8 respectively, ="-FT3A" means open frame model with appliance inlet with Class I inlet C6 respectively, ="-FT3" means open frame model with appliance inlet with Class I inlet C14 respectively, The last * denote any six character = 0-9 or A-Z or ()[ ] or – or blank for marketing purposes.*	

Technical Characteristics of EUT	
Rated Voltage:	Input: AC 100-240V 50-60Hz
Rated Current:	0.3A or 0.6A
Rated Power:	/
Power Adaptor Model:	/
Highest Internal Frequency:	Below 108MHz
Classification of Equipment:	Class B

1.2 Test Standards

The tests were performed according to following standards:

EN 60601-1-2:2015+A1:2021: Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests.

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 IEC 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 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	Power Supply Mode
TM1	Working mode	Model:GTM96060-0606-1.0 Output:DC 5V/1.2A	AC 230V/50Hz
TM2	Working mode	Model:GTM96060-0624 Output:DC 24V/0.25A	AC 230V/50Hz
TM3	Working mode	Model:GTM96060-0606-1.0 Output:DC 5V/1.2A	AC 120V/60Hz
TM4	Working mode	Model:GTM96060-0624 Output:DC 24V/0.25A	AC 120V/60Hz

EUT Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
Model:GTM96060-0606-1.0 DC Cable	1.57	Unshielded	With	Without
Model:GTM96060-0624 DC Cable	1.57	Unshielded	Without	Without

Special Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
/	/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Load	/	/	/

1.5 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 manufacturer. No change in operating state or loss of 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.

1.6 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
☒Chamber A:Below 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2023-02-25	2024-02-24
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2023-02-25	2024-02-24
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-03-20	2026-03-19
Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
Amplifier	HP	8447F	2805A03475	2023-02-25	2024-02-24
☐Chamber A:Above 1GHz					
Amplifier	C&D	PAP-1G18	2002	2023-02-25	2024-02-24
Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
☐Chamber B:Below 1GHz					
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
Amplifier	Agilent	8447D	2944A10179	2023-02-25	2024-02-24
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2023-02-25	2024-02-24
☐Chamber C:Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
Amplifier	HP	8447F	2944A03869	2023-02-25	2024-02-24
☐Chamber C:Above 1GHz					
Horn Antenna	POAM	RTF-11A	LP228060221	2023-03-10	2026-03-09
Amplifier	Tonscend	TAP01018050	AP22E806235	2023-02-25	2024-02-24
☒Conducted Room 1#					
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
AC LISN	Schwarz beck	NSLK8126	8126-224	2023-02-25	2024-02-24
8-WIRE LISN	Schwarz beck	8158	CAT3-8158-0059	2023-02-25	2024-02-24
8-WIRE LISN	Schwarz beck	8158	CAT5-8158-0117	2023-02-25	2024-02-24
☐Conducted Room 2#					
EMI Test Receiver	Rohde & Schwarz	ESPI	10129	2023-02-25	2024-02-24
LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24
☒Harmonics &Flicker					
Digital Power Analyzer	California Instrument	CTS	72831	2023-02-25	2024-02-24
Power Source	California Instrument	5001IX-CTS-400	25965	2023-02-25	2024-02-24
☒Electrostatic discharges					
ESD Generator	LIONCEL	ESD-203B	0170901	2023-03-14	2024-03-13

☒Power-frequency magnetic field (PFMF)					
PMF Generator	LIONCEL	PMF-801C-C	0171101	2023-02-25	2024-02-24
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2023-02-25	2024-02-24
Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2023-02-25	2024-02-24
☒Electronic fast transient(EFT)/Surges/Dips					
Transient 2000	EMC PARTNER	TRA2000	863	2023-02-25	2024-02-24
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2023-02-25	2024-02-24
☒Radio frequency, continuous conducted (C/S)					
CONDUCTED IMMUNITY TEST SYSTEM	FRANKONIA	CIT-10/75	126B1247/2013	2023-02-25	2024-02-24
Attenuator	EMTEST	MA-5100/6BF2	1009	2023-02-25	2024-02-24
CDN	Luthi	L-801M2/M3	2665	2023-02-25	2024-02-24
CDN	LIONCEL	CDN-T8	0210401	2023-02-25	2024-02-24
EM Clamp	TESEQ	KEMZ801A	45028	2023-02-25	2024-02-24
☒Radio frequency electromagnetic Field (R/S)					
Signal Generator	HP	8688B	3438A00604	2023-02-25	2024-02-24
Power Sensor	Agilent	E9301A	MY52450001	2023-02-25	2024-02-24
Power Sensor	Agilent	E9304A	MY55081055	2023-02-25	2024-02-24
RF Power Amplifier	MicoTop	MPA-80-1000-250	MPA1906239	2023-02-25	2024-02-24
RF Power Amplifier	MicoTop	MPA-1000-6000-100	MPA1906238	2023-02-25	2024-02-24
Antenna	SCHWARZBECK	STLP 9129	9129 114	N/A	N/A
Power Meter	Agilent	E4419B	GB42420578	2023-02-25	2024-02-24

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
EN 60601-1-2	Conducted Disturbance	Compliant
	Radiated Disturbance	Compliant
	Harmonic Current Emission IEC 61000-3-2	Compliant
	Voltage Fluctuation and Flicker IEC 61000-3-3	Compliant
	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	Compliant
	Voltage Dips/Interruptions Immunity in accordance with IEC 61000-4-11	Compliant

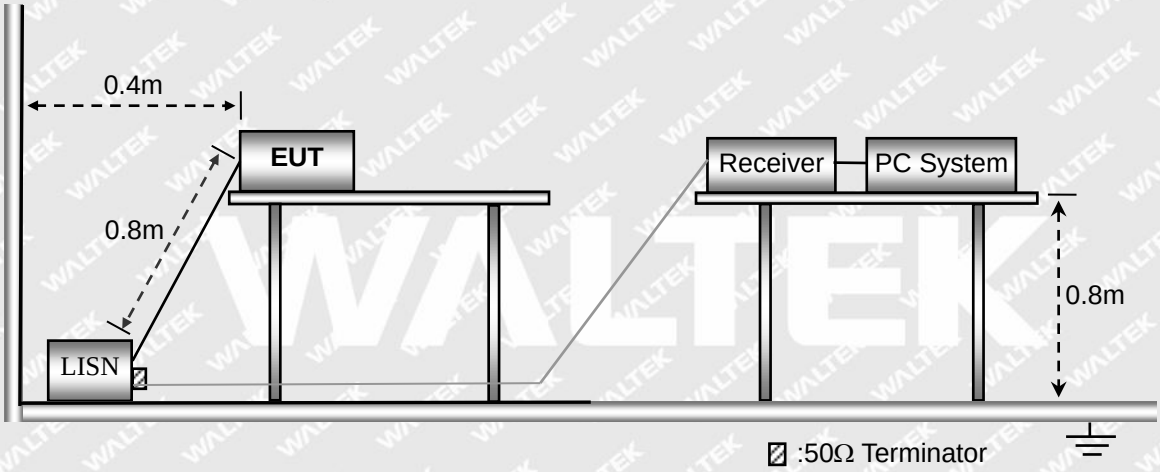
3. Conducted Emission

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:

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB

3.2 Basic Test Setup Block Diagram



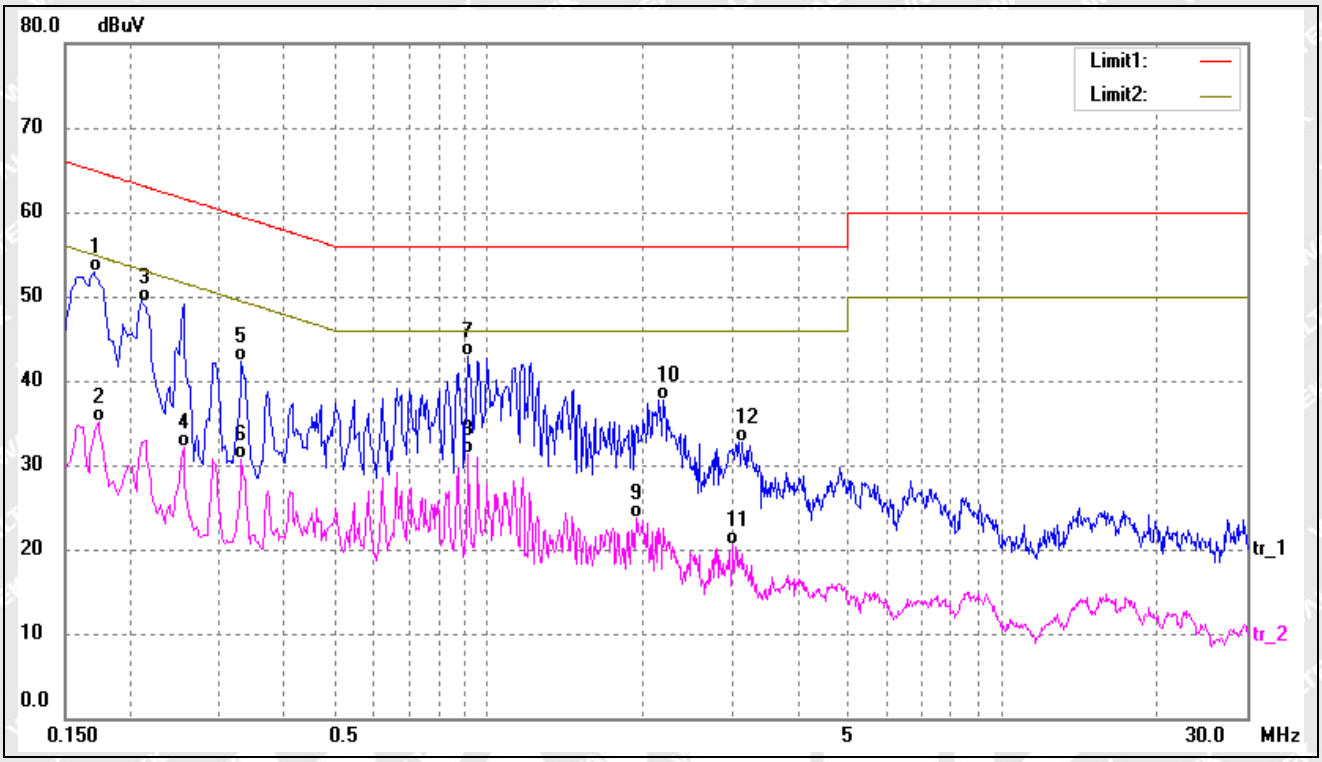
3.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

3.4 Summary of Test Results

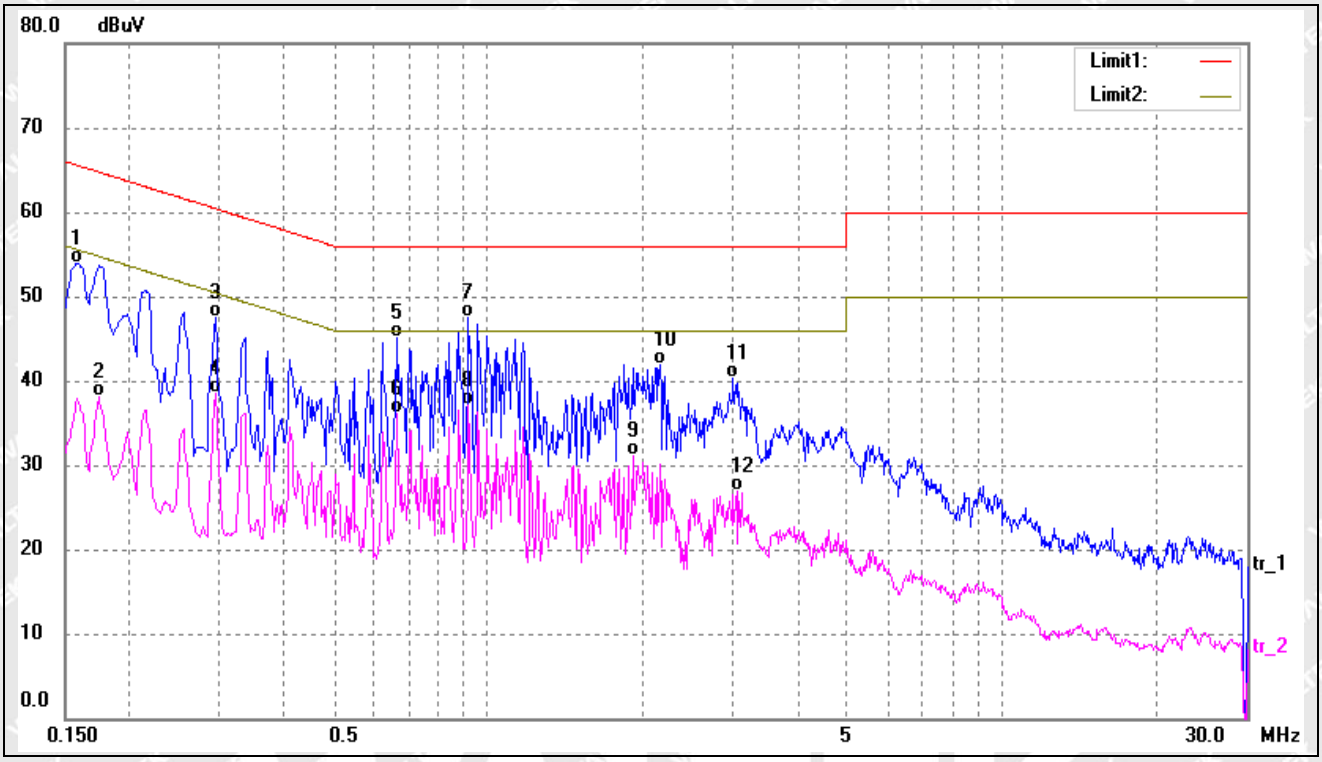
Please find the results below:

Test mode:	TM1	Polarity:	Line



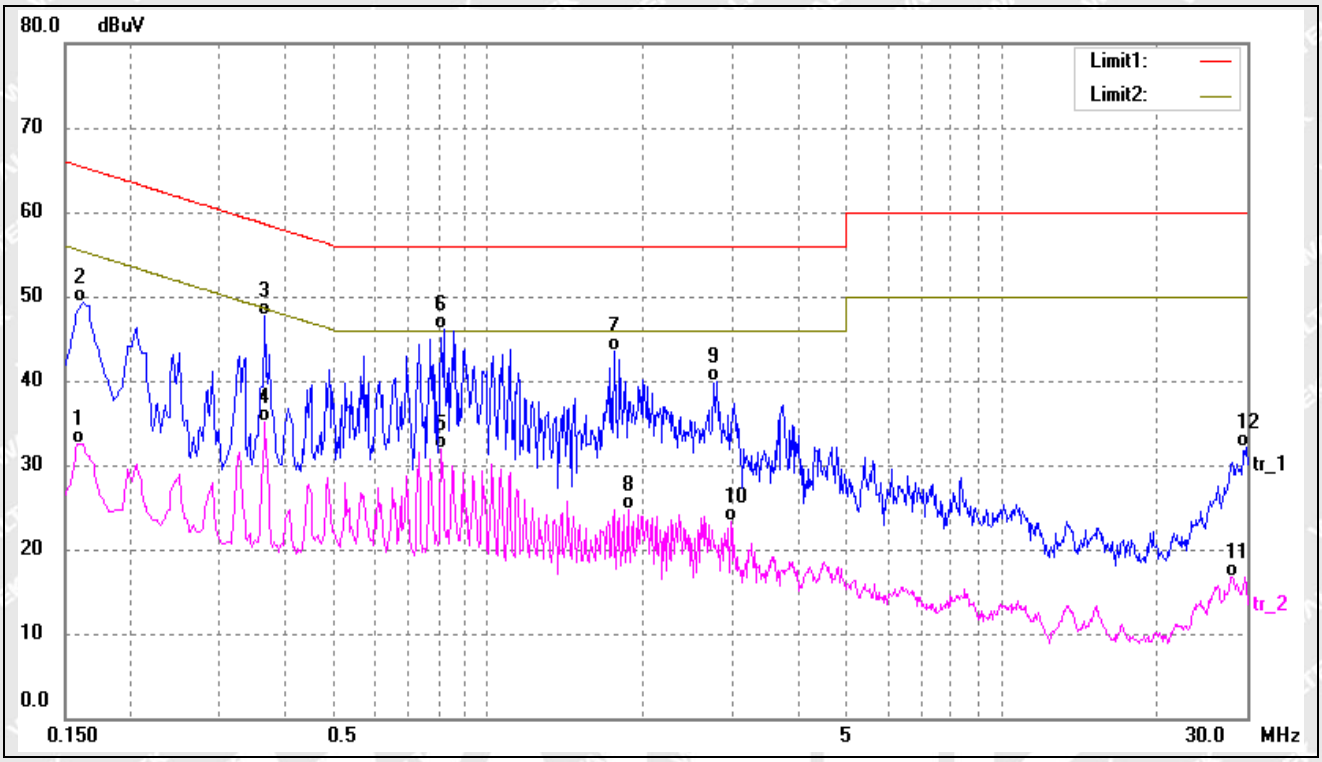
No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1*	0.1700	42.58	10.40	52.98	64.96	-11.98	QP
2	0.1740	24.62	10.39	35.01	54.76	-19.75	AVG
3	0.2117	38.87	10.38	49.25	63.13	-13.88	QP
4	0.2540	21.71	10.34	32.05	51.62	-19.57	AVG
5	0.3300	32.09	10.29	42.38	59.45	-17.07	QP
6	0.3300	20.44	10.29	30.73	49.45	-18.72	AVG
7	0.9140	32.72	10.15	42.87	56.00	-13.13	QP
8	0.9140	21.14	10.15	31.29	46.00	-14.71	AVG
9	1.9460	13.49	10.31	23.80	46.00	-22.20	AVG
10	2.1980	27.41	10.33	37.74	56.00	-18.26	QP
11	2.9940	10.14	10.35	20.49	46.00	-25.51	AVG
12	3.1099	22.42	10.35	32.77	56.00	-23.23	QP

Test mode:	TM1	Polarity:	Neutral



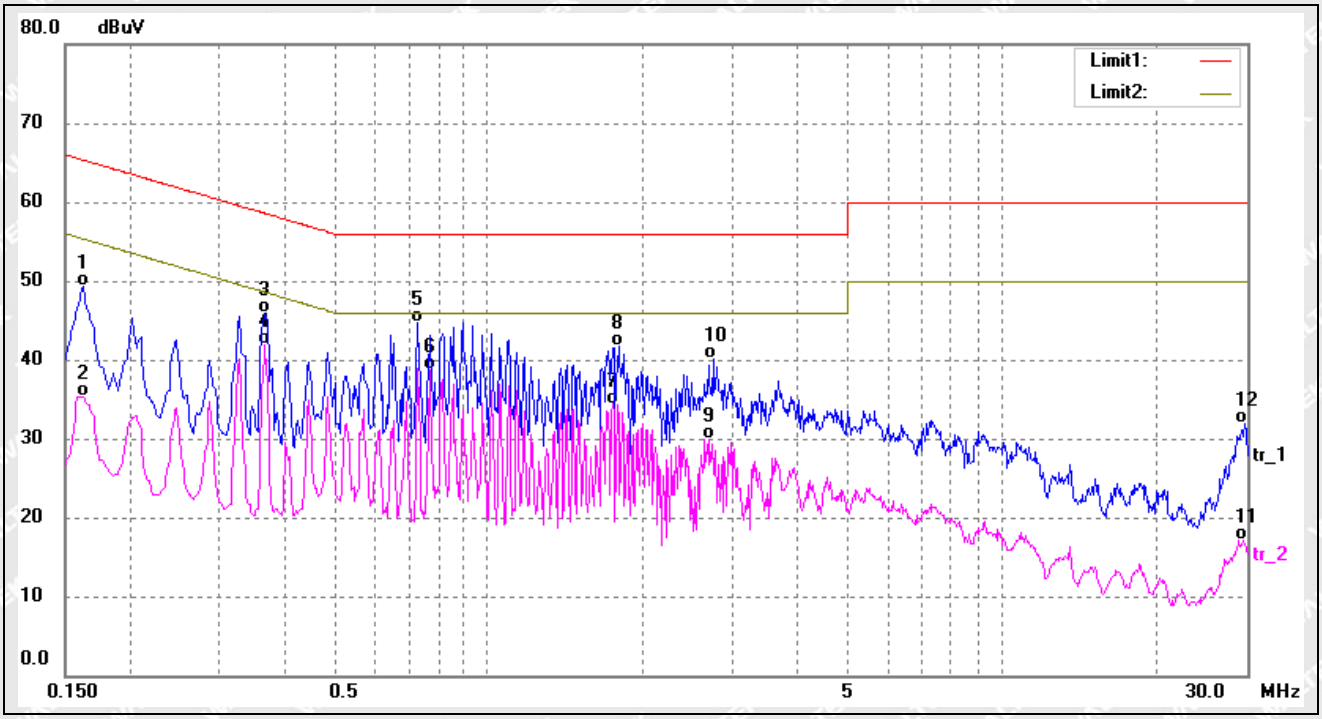
No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1580	43.56	10.40	53.96	65.56	-11.60	QP
2	0.1740	27.69	10.39	38.08	54.76	-16.68	AVG
3	0.2940	37.17	10.30	47.47	60.41	-12.94	QP
4	0.2940	28.21	10.30	38.51	50.41	-11.90	AVG
5	0.6620	34.97	10.20	45.17	56.00	-10.83	QP
6	0.6620	25.97	10.20	36.17	46.00	-9.83	AVG
7*	0.9140	37.28	10.15	47.43	56.00	-8.57	QP
8	0.9140	26.96	10.15	37.11	46.00	-8.89	AVG
9	1.9100	20.73	10.31	31.04	46.00	-14.96	AVG
10	2.1619	31.54	10.33	41.87	56.00	-14.13	QP
11	3.0020	29.93	10.35	40.28	56.00	-15.72	QP
12	3.0420	16.65	10.35	27.00	46.00	-19.00	AVG

Test mode:	TM2	Polarity:	Line



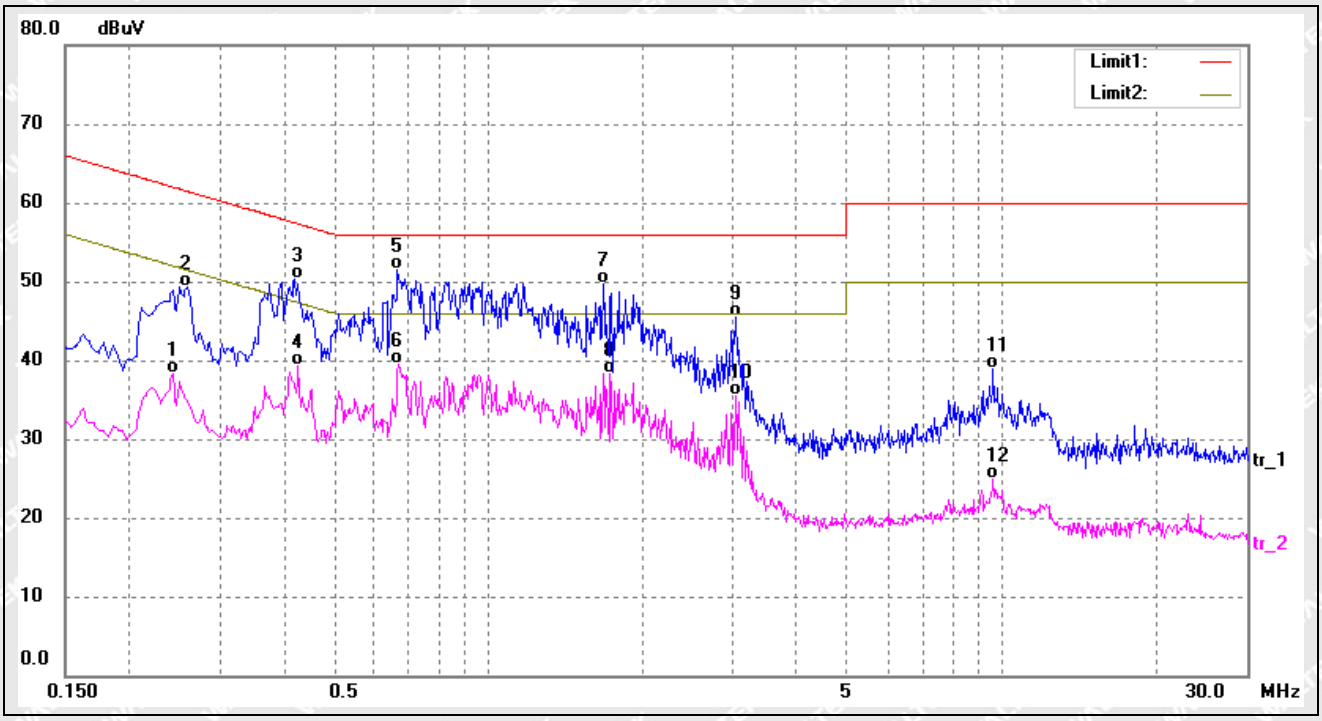
No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1580	22.10	10.40	32.50	55.56	-23.06	AVG
2	0.1620	38.93	10.40	49.33	65.36	-16.03	QP
3	0.3660	37.37	10.28	47.65	58.59	-10.94	QP
4	0.3660	24.89	10.28	35.17	48.59	-13.42	AVG
5	0.8100	21.70	10.18	31.88	46.00	-14.12	AVG
6*	0.8180	35.95	10.18	46.13	56.00	-9.87	QP
7	1.7540	33.20	10.29	43.49	56.00	-12.51	QP
8	1.8740	14.41	10.31	24.72	46.00	-21.28	AVG
9	2.7820	29.57	10.34	39.91	56.00	-16.09	QP
10	2.9700	12.86	10.35	23.21	46.00	-22.79	AVG
11	28.0340	6.46	10.30	16.76	50.00	-33.24	AVG
12	29.8780	21.81	10.31	32.12	60.00	-27.88	QP

Test mode:	TM2	Polarity:	Neutral



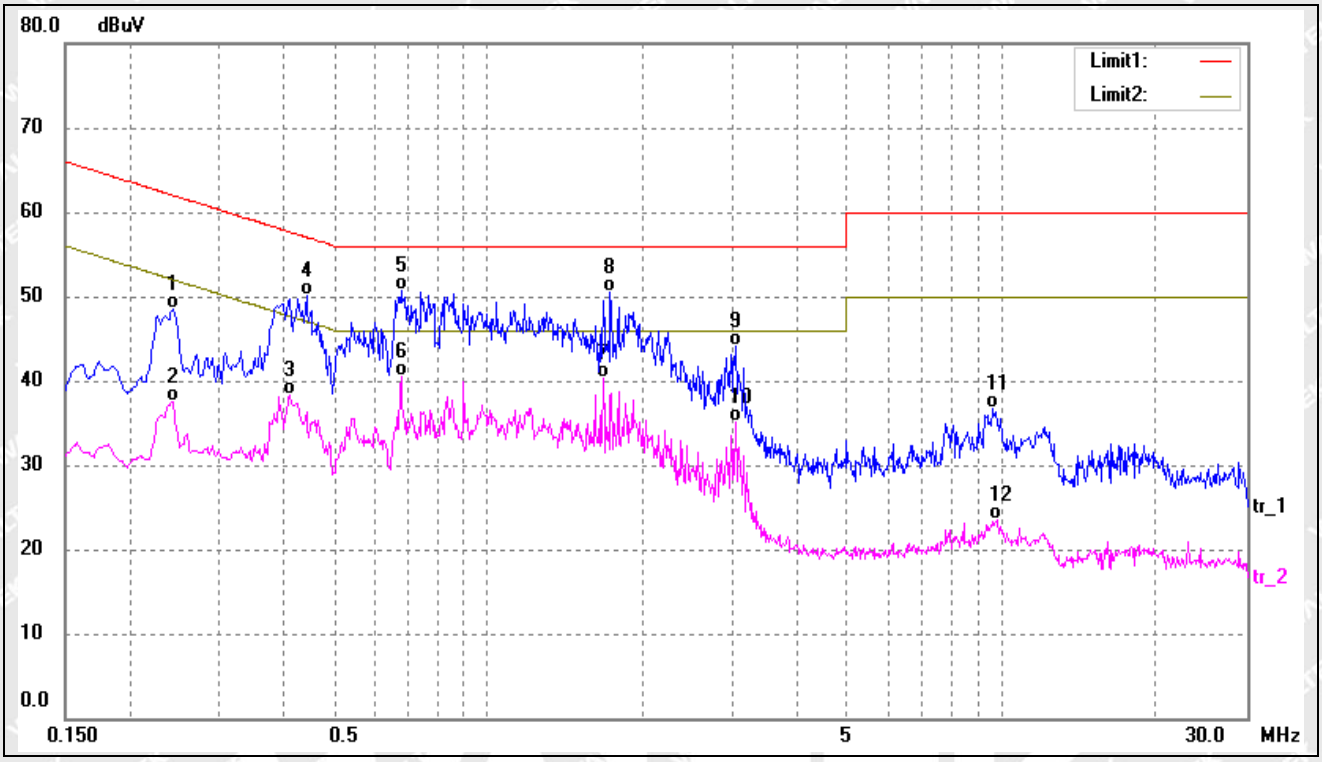
No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1620	38.81	10.40	49.21	65.36	-16.15	QP
2	0.1620	24.96	10.40	35.36	55.36	-20.00	AVG
3	0.3660	35.57	10.28	45.85	58.59	-12.74	QP
4*	0.3660	31.61	10.28	41.89	48.59	-6.70	AVG
5	0.7300	34.60	10.19	44.79	56.00	-11.21	QP
6	0.7700	28.45	10.18	38.63	46.00	-7.37	AVG
7	1.7500	24.12	10.28	34.40	46.00	-11.60	AVG
8	1.7940	31.47	10.29	41.76	56.00	-14.24	QP
9	2.6820	19.49	10.34	29.83	46.00	-16.17	AVG
10	2.7380	29.73	10.34	40.07	56.00	-15.93	QP
11	29.3940	6.79	10.31	17.10	50.00	-32.90	AVG
12	29.7380	21.68	10.31	31.99	60.00	-28.01	QP

Test mode:	TM3	Polarity:	Line



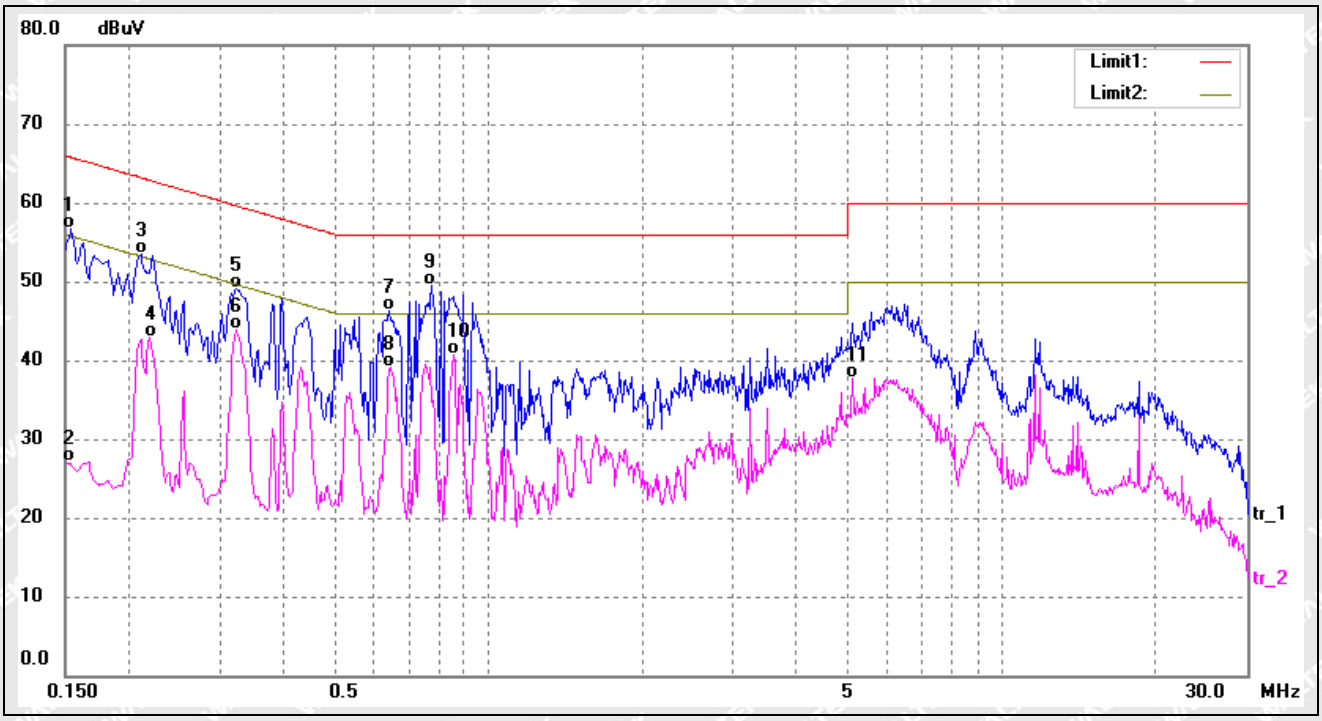
No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2420	27.88	10.35	38.23	52.02	-13.79	AVG
2	0.2580	39.01	10.34	49.35	61.49	-12.14	QP
3	0.4180	40.14	10.26	50.40	57.49	-7.09	QP
4	0.4260	29.05	10.25	39.30	47.33	-8.03	AVG
5*	0.6660	41.30	10.20	51.50	56.00	-4.50	QP
6	0.6700	29.24	10.20	39.44	46.00	-6.56	AVG
7	1.6780	39.34	10.27	49.61	56.00	-6.39	QP
8	1.7340	28.04	10.28	38.32	46.00	-7.68	AVG
9	3.0300	35.22	10.35	45.57	56.00	-10.43	QP
10	3.0300	25.21	10.35	35.56	46.00	-10.44	AVG
11	9.6059	28.49	10.38	38.87	60.00	-21.13	QP
12	9.6059	14.49	10.38	24.87	50.00	-25.13	AVG

Test mode:	TM3	Polarity:	Neutral



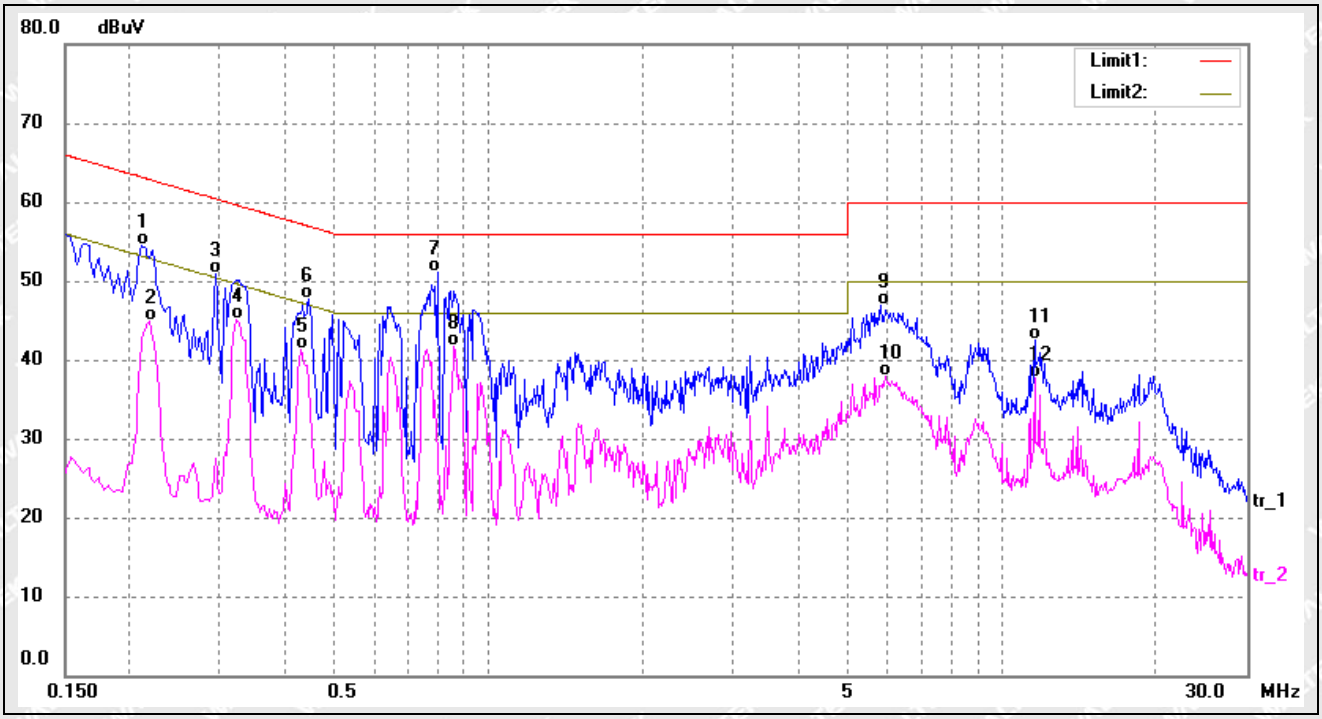
No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2420	38.08	10.35	48.43	62.02	-13.59	QP
2	0.2420	27.10	10.35	37.45	52.02	-14.57	AVG
3	0.4100	28.10	10.26	38.36	47.65	-9.29	AVG
4	0.4420	39.86	10.25	50.11	57.02	-6.91	QP
5*	0.6780	40.41	10.20	50.61	56.00	-5.39	QP
6	0.6780	30.24	10.20	40.44	46.00	-5.56	AVG
7	1.6780	30.12	10.27	40.39	46.00	-5.61	AVG
8	1.7340	40.24	10.28	50.52	56.00	-5.48	QP
9	3.0300	33.78	10.35	44.13	56.00	-11.87	QP
10	3.0300	24.83	10.35	35.18	46.00	-10.82	AVG
11	9.6180	26.27	10.38	36.65	60.00	-23.35	QP
12	9.7940	13.04	10.38	23.42	50.00	-26.58	AVG

Test mode:	TM4	Polarity:	Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1539	46.32	10.41	56.73	65.78	-9.05	QP
2	0.1539	16.70	10.41	27.11	55.78	-28.67	AVG
3	0.2100	43.16	10.38	53.54	63.20	-9.66	QP
4	0.2180	32.47	10.37	42.84	52.89	-10.05	AVG
5	0.3220	38.80	10.30	49.10	59.65	-10.55	QP
6	0.3220	33.64	10.30	43.94	49.65	-5.71	AVG
7	0.6419	36.02	10.20	46.22	56.00	-9.78	QP
8	0.6460	28.91	10.20	39.11	46.00	-6.89	AVG
9	0.7780	39.42	10.18	49.60	56.00	-6.40	QP
10*	0.8580	30.61	10.17	40.78	46.00	-5.22	AVG
11	5.1180	27.33	10.38	37.71	50.00	-12.29	AVG

Test mode:	TM4	Polarity:	Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2100	44.15	10.38	54.53	63.20	-8.67	QP
2	0.2180	34.45	10.37	44.82	52.89	-8.07	AVG
3	0.2940	40.64	10.30	50.94	60.41	-9.47	QP
4	0.3220	34.78	10.30	45.08	49.65	-4.57	AVG
5	0.4300	31.04	10.25	41.29	47.25	-5.96	AVG
6	0.4460	37.53	10.25	47.78	56.95	-9.17	QP
7	0.7980	40.87	10.18	51.05	56.00	-4.95	QP
8*	0.8580	31.53	10.17	41.70	46.00	-4.30	AVG
9	5.8180	36.51	10.38	46.89	60.00	-13.11	QP
10	5.9300	27.49	10.38	37.87	50.00	-12.13	AVG
11	11.5860	32.24	10.33	42.57	60.00	-17.43	QP
12	11.5860	27.39	10.33	37.72	50.00	-12.28	AVG

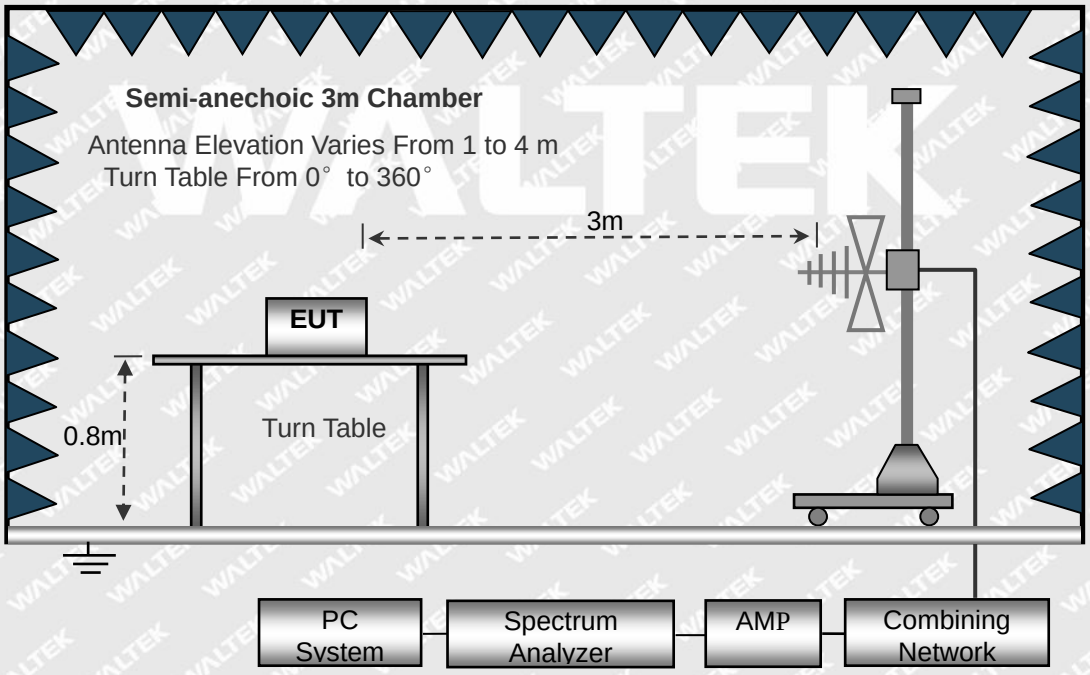
4. Radiated Emission

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:

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Radiated Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

4.2 Basic Test Setup Block Diagram



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 + Correct

Correct=Ant.Factor + Cable Loss - Ampl.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. – CISPR 11 Class B Limit

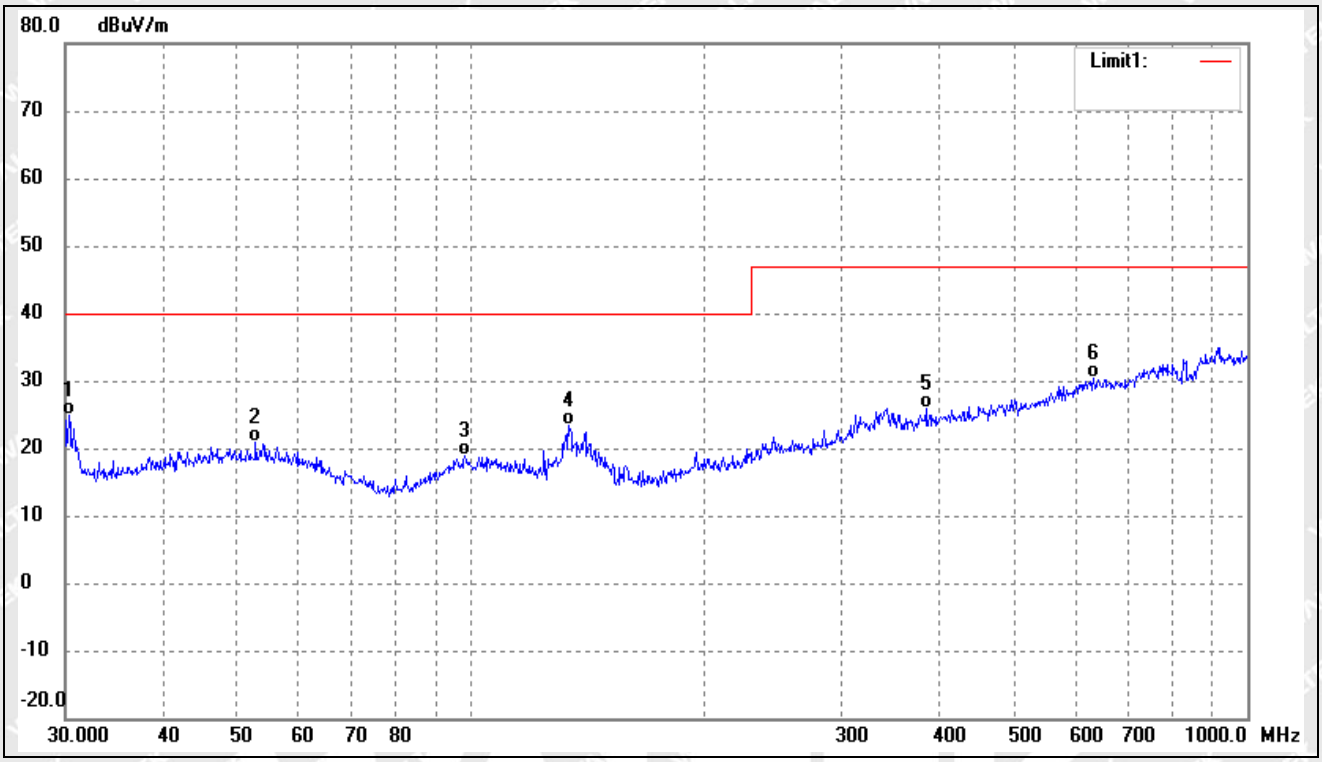
4.4 Environmental Conditions

Temperature:	22.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

4.5 Summary of Test Results

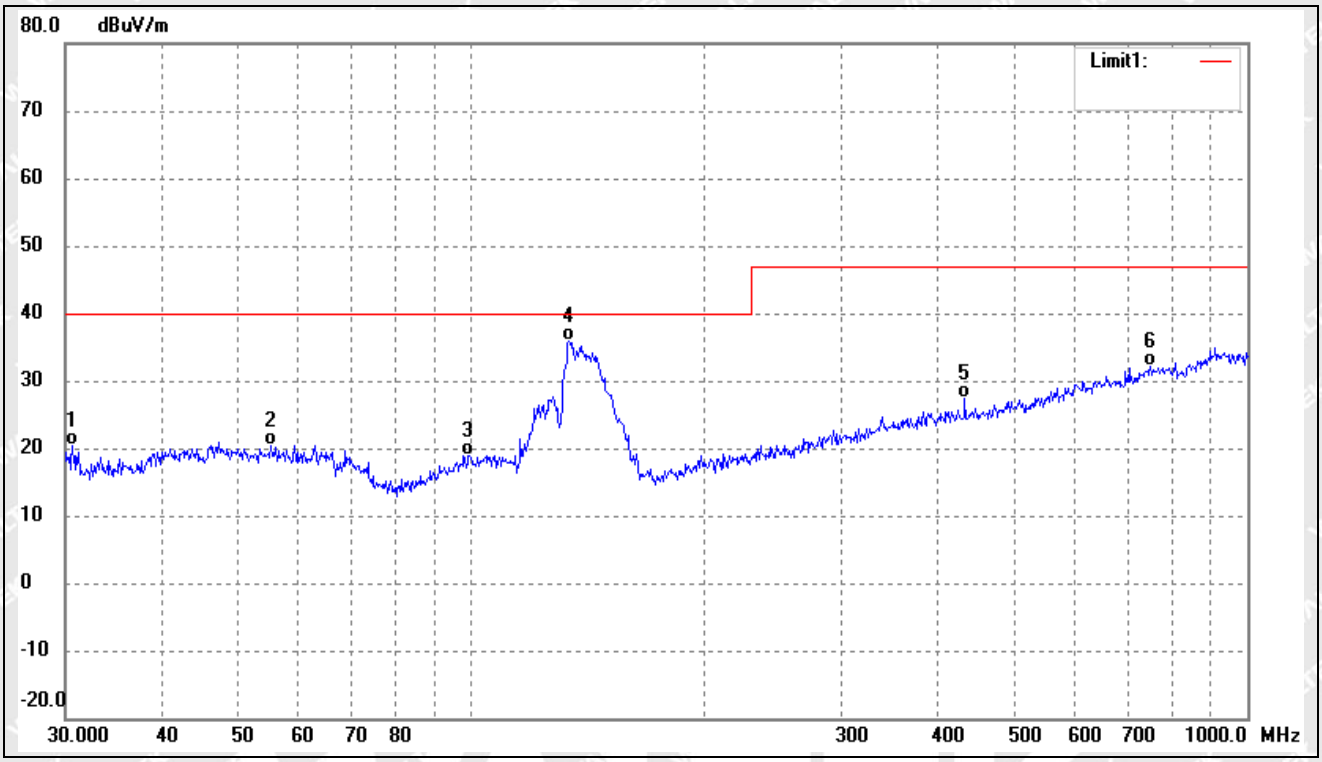
Please find the results below:

Test mode:	TM1	Polarity:	Horizontal



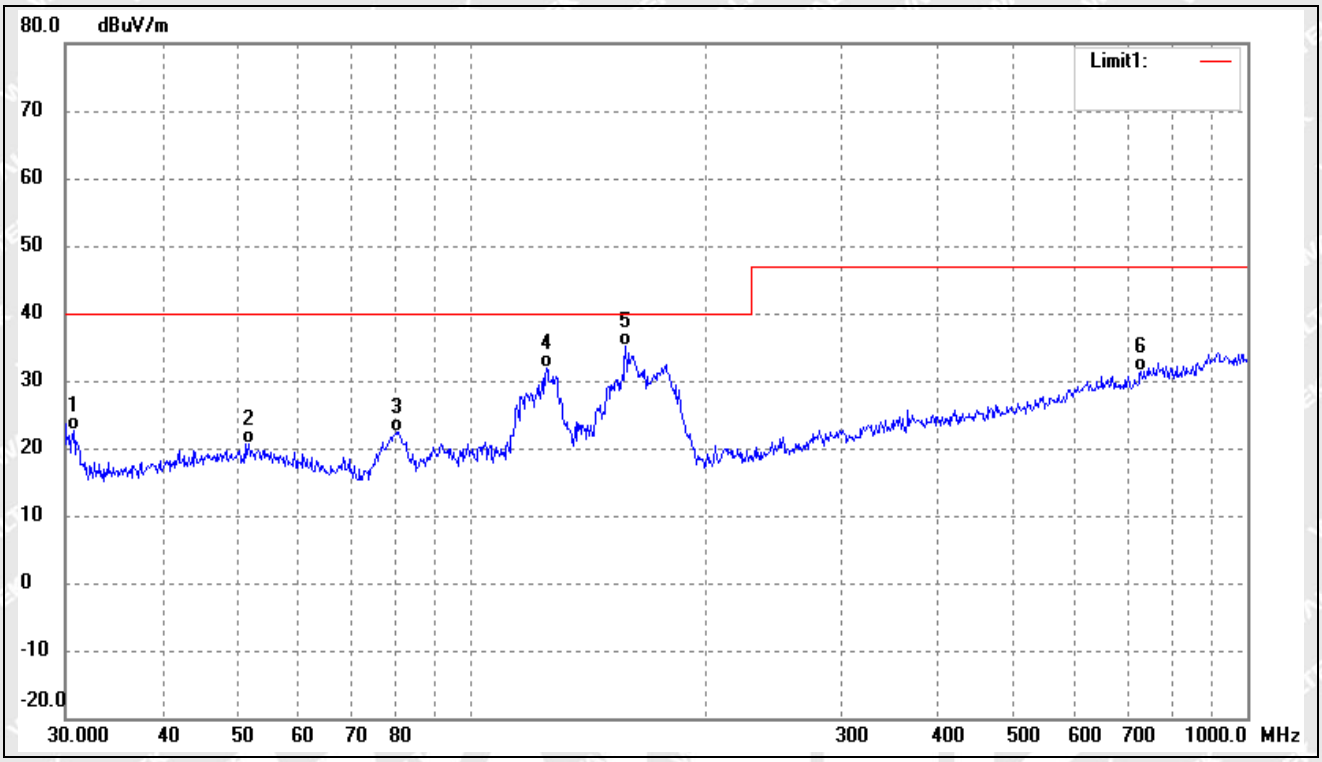
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	30.3173	35.71	-10.76	24.95	40.00	-15.05	QP
2	52.7600	28.41	-7.43	20.98	40.00	-19.02	QP
3	98.1419	27.66	-8.85	18.81	40.00	-21.19	QP
4	133.6188	34.89	-11.55	23.34	40.00	-16.66	QP
5	385.2805	28.79	-2.93	25.86	47.00	-21.14	QP
6	633.9073	28.76	1.63	30.39	47.00	-16.61	QP

Test mode:	TM1	Polarity:	Vertical



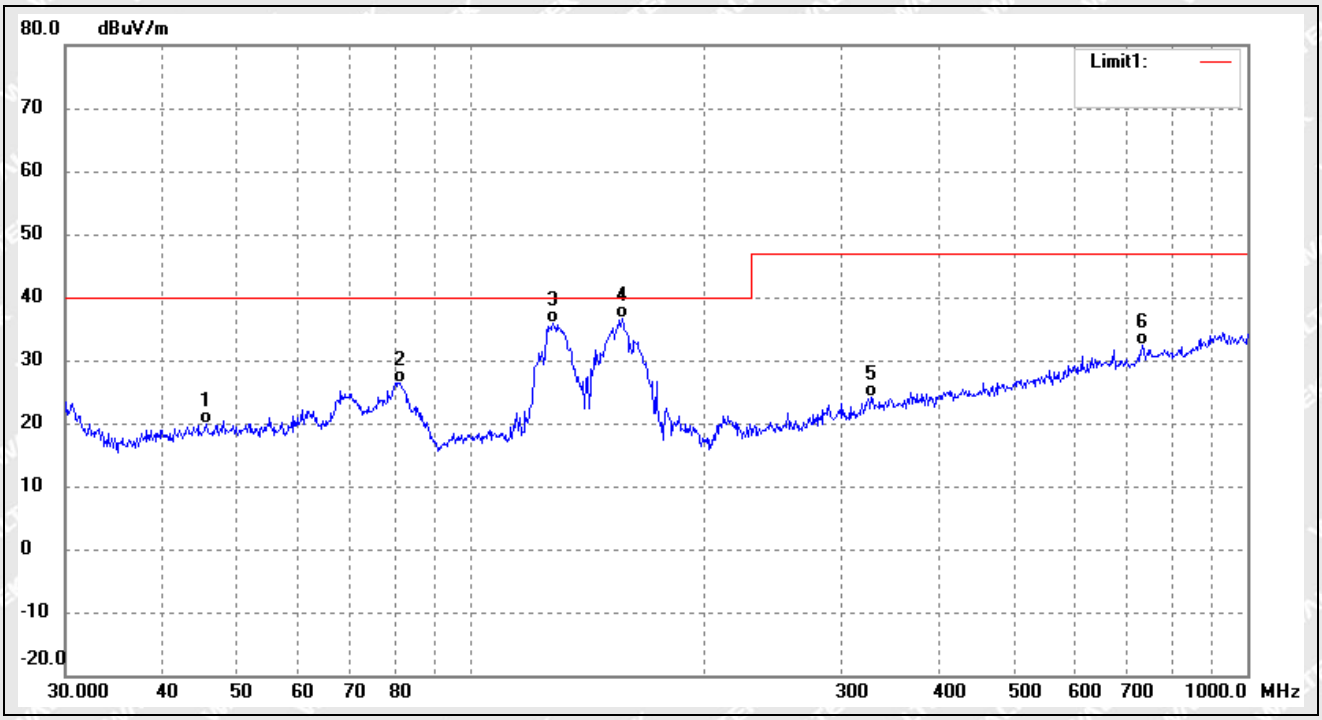
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	30.6379	31.25	-10.76	20.49	40.00	-19.51	QP
2	55.2207	28.12	-7.65	20.47	40.00	-19.53	QP
3	99.1797	27.55	-8.71	18.84	40.00	-21.16	QP
4	133.6188	47.46	-11.55	35.91	40.00	-4.09	QP
5	432.5457	29.53	-2.09	27.44	47.00	-19.56	QP
6	750.1083	53.20	-21.11	32.09	47.00	-14.91	QP

Test mode:	TM2	Polarity:	Horizontal



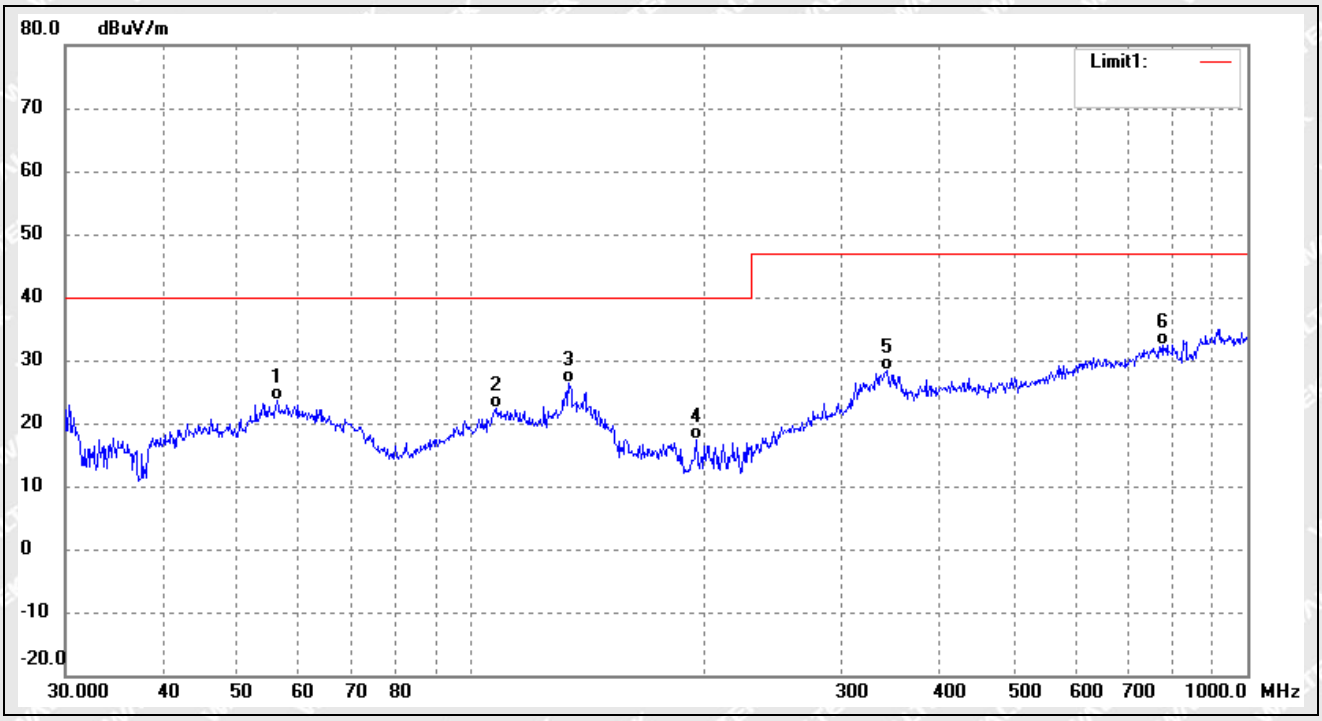
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	30.7455	33.42	-10.76	22.66	40.00	-17.34	QP
2	51.6616	28.09	-7.39	20.70	40.00	-19.30	QP
3	80.3619	35.29	-12.79	22.50	40.00	-17.50	QP
4	125.0066	42.67	-10.82	31.85	40.00	-8.15	QP
5	158.1123	46.51	-11.32	35.19	40.00	-4.81	QP
6	729.3583	52.47	-21.18	31.29	47.00	-15.71	QP

Test mode:	TM2	Polarity:	Vertical



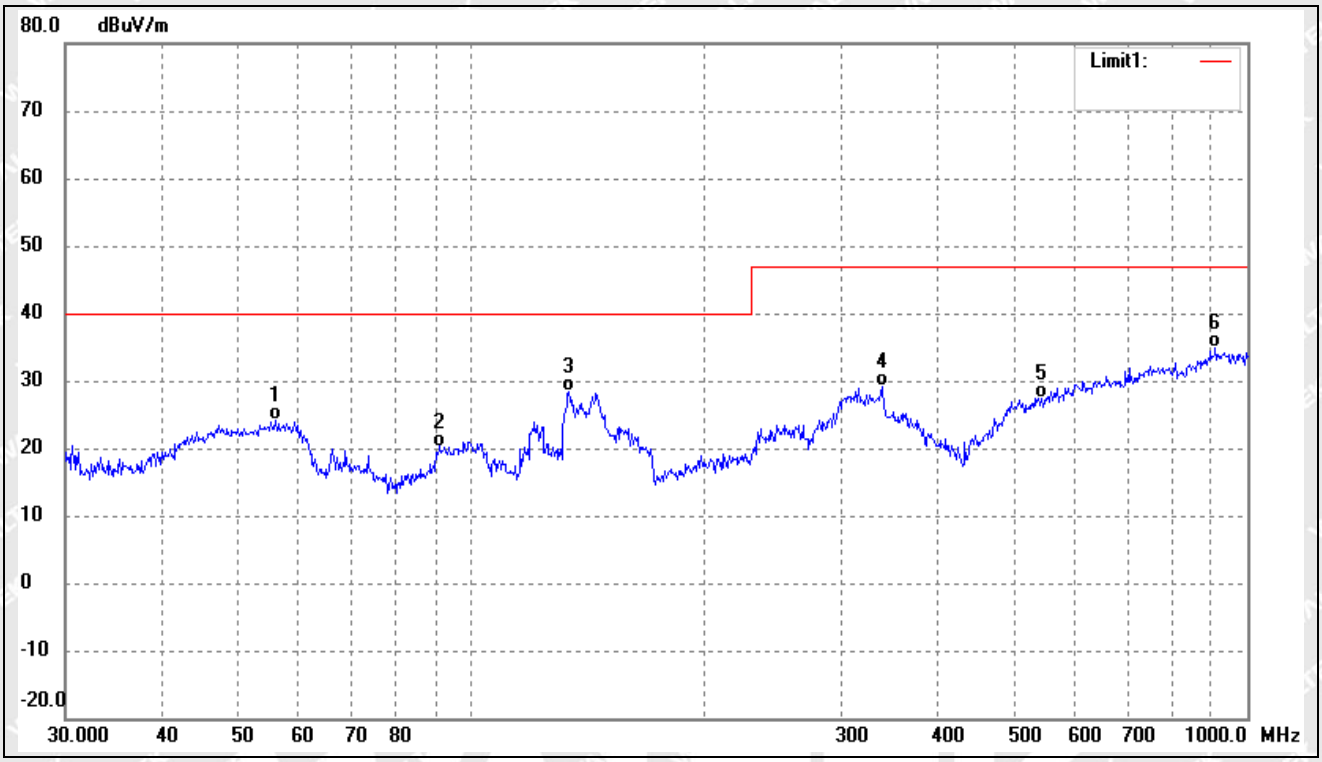
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	45.5348	27.48	-7.65	19.83	40.00	-20.17	QP
2	80.9275	39.18	-12.71	26.47	40.00	-13.53	QP
3	127.2176	46.93	-11.07	35.86	40.00	-4.14	QP
4	156.4576	47.99	-11.43	36.56	40.00	-3.44	QP
5	327.8873	28.05	-3.93	24.12	47.00	-22.88	QP
6	731.9203	53.50	-21.18	32.32	47.00	-14.68	QP

Test mode:	TM3	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	56.1974	31.29	-7.78	23.51	40.00	-16.49	QP
2	107.8876	30.87	-8.57	22.30	40.00	-17.70	QP
3	133.6184	37.89	-11.55	26.34	40.00	-13.66	QP
4	195.1365	25.55	-8.20	17.35	40.00	-22.65	QP
5	343.1800	31.63	-3.31	28.32	47.00	-18.68	QP
6	779.6068	53.42	-20.96	32.46	47.00	-14.54	QP

Test mode:	TM3	Polarity:	Vertical

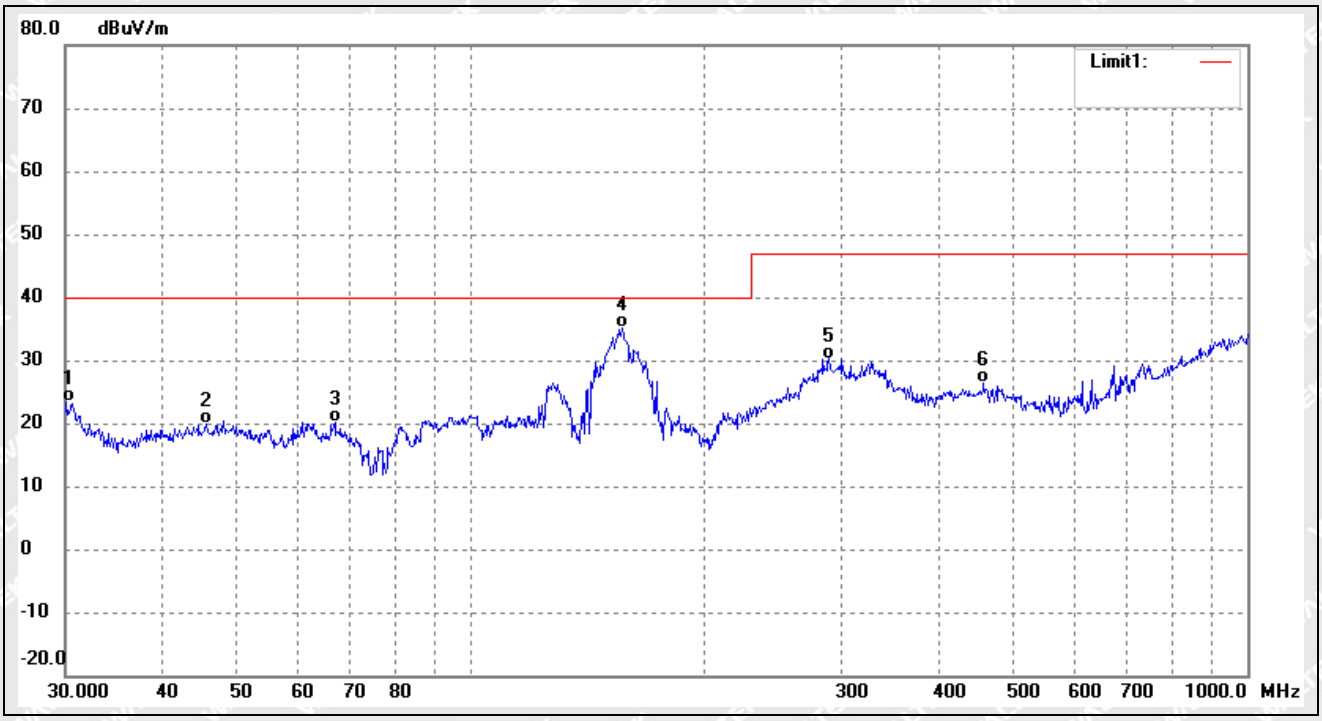


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	56.0007	31.80	-7.75	24.05	40.00	-15.95	QP
2	91.1744	30.67	-10.42	20.25	40.00	-19.75	QP
3	133.6184	39.96	-11.55	28.41	40.00	-11.59	QP
4	338.4001	32.51	-3.49	29.02	47.00	-17.98	QP
5	543.2740	27.72	-0.31	27.41	47.00	-19.59	QP
6	909.6666	55.39	-20.39	35.00	47.00	-12.00	QP

Test mode:	TM4	Polarity:	Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	34.27	-10.76	23.51	40.00	-16.49	QP
2	53.8817	29.52	-7.50	22.02	40.00	-17.98	QP
3	80.3619	39.29	-12.79	26.50	40.00	-13.50	QP
4	125.0066	37.17	-10.82	26.35	40.00	-13.65	QP
5	158.1123	45.01	-11.32	33.69	40.00	-6.31	QP
6	420.5803	33.32	-2.17	31.15	47.00	-15.85	QP

Test mode:	TM4	Polarity:	Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	30.1051	34.08	-10.76	23.32	40.00	-16.68	QP
2	45.5347	27.48	-7.65	19.83	40.00	-20.17	QP
3	66.7325	30.53	-10.37	20.16	40.00	-19.84	QP
4	156.4576	46.49	-11.43	35.06	40.00	-4.94	QP
5	289.0020	35.23	-4.98	30.25	47.00	-16.75	QP
6	457.5072	28.56	-2.06	26.50	47.00	-20.50	QP

5. Harmonic Current Emissions

5.1 Test Procedure

Test is conducted under the description of IEC 61000-3-2.

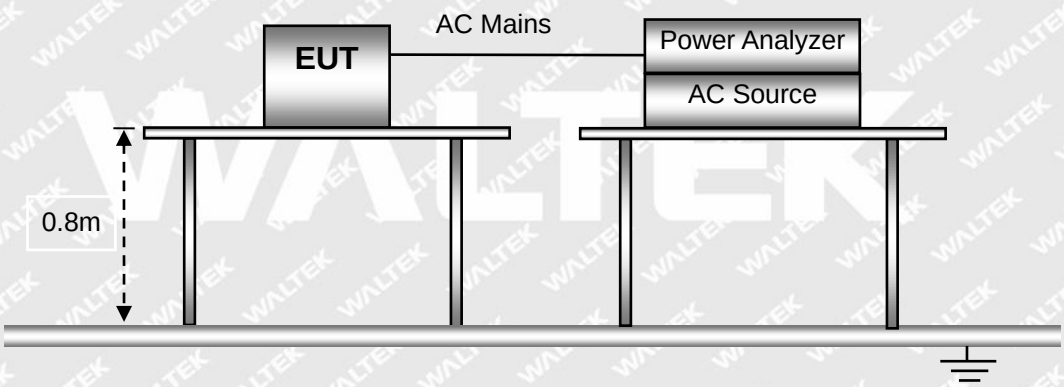
5.2 Test Standards

IEC 61000-3-2, Clause 7.2 Limits for Class A equipment.

5.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

5.4 Basic Test Setup Block Diagram



5.5 Harmonic Current Emissions Test Data

According to Clause 7 of IEC 61000-3-2, the rated power of the EUT is less than 75W, belong to ‘equipment with a rated power of 75W or less’, therefore ‘limits are not specified in this edition of the standards’. It is deem to full fit the requirements of the standards.

Result: The EUT is compliance with the requirements of this section.

6. Voltage Fluctuation Flicker

6.1 Test Procedure

Test is conducted under the description of IEC 61000-3-3.

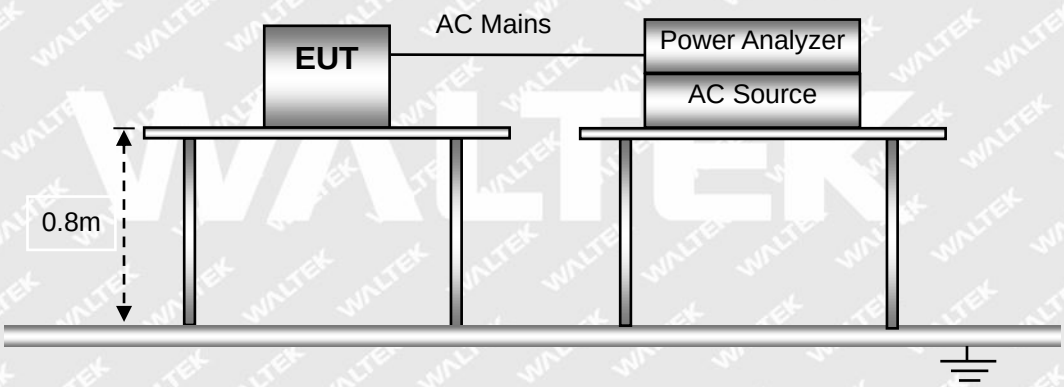
6.2 Test Standards

IEC 61000-3-3, Limit: Clause 5.

6.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

6.4 Basic Test Setup Block Diagram



6.5 Voltage Fluctuation and Flicker Test Data

Test mode:	TM1

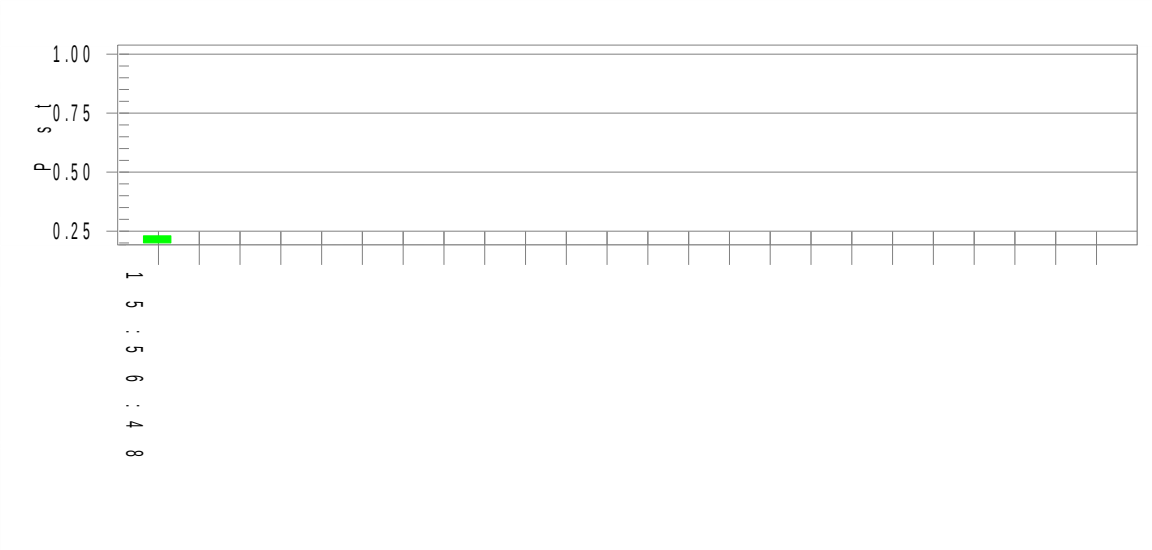
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM1

Customer: Customer information

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

Pst and limit line **European Limits**



Plt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.11**			
Highest dt (%):		**Test limit (%):**		
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.230**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.101**	**Test limit:**	**0.650**	**Pass**

Test mode:	TM3

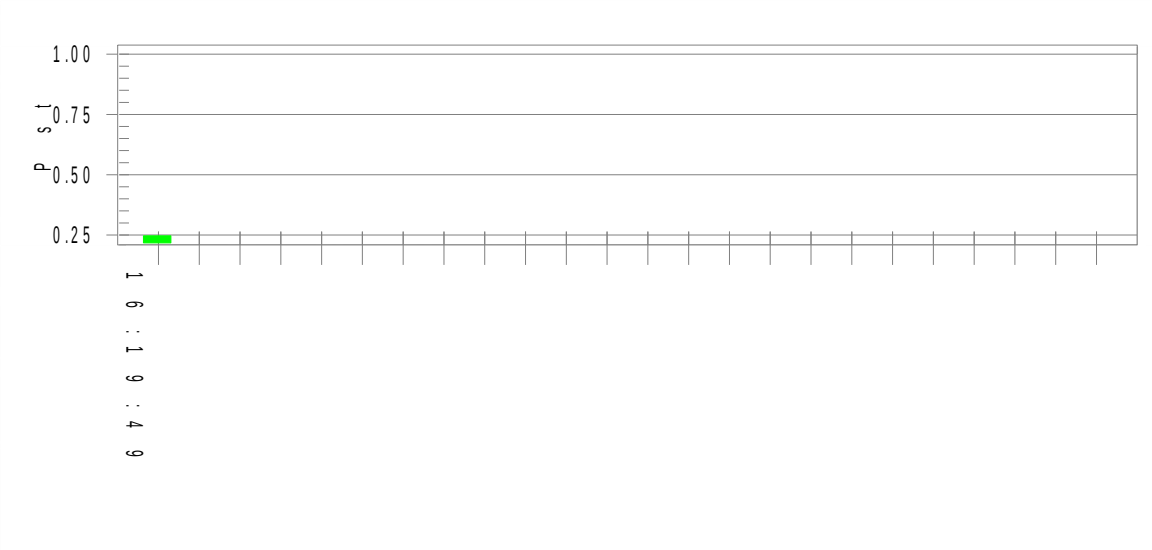
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM2

Customer: Customer information

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

Pst_t and limit line **European Limits**



Plt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt):	**230.05**			
Highest dt (%):		**Test limit (%):**		
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.247**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.108**	**Test limit:**	**0.650**	**Pass**

7. Electrostatic Discharges (ESD)

7.1 Test Procedure

Test is conducted under the description of IEC 61000-4-2.

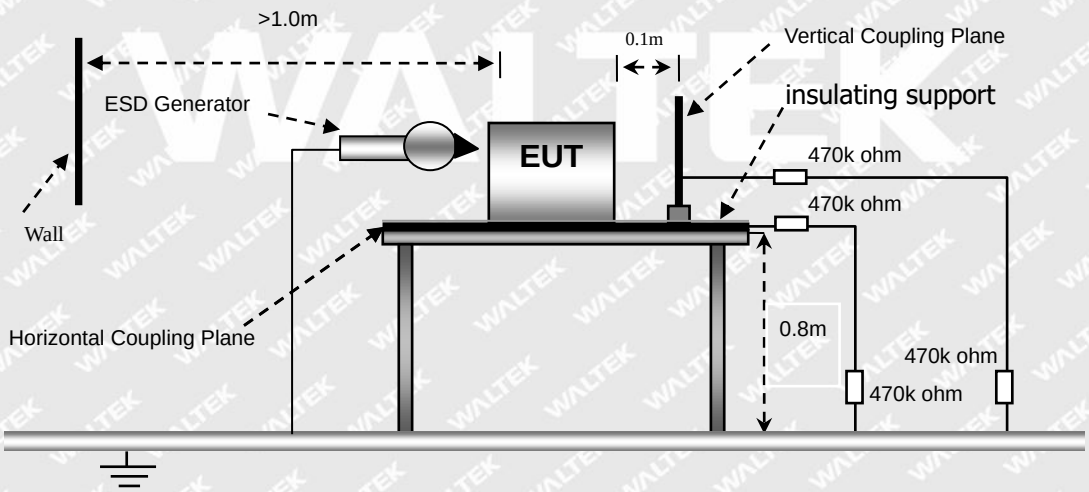
7.2 Test Performance

Performance Criterion: B

7.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

7.4 Basic Test Setup Block Diagram



7.5 Electrostatic Discharge Immunity Test Data

Table 1: Electrostatic Discharge Immunity (Air Discharge)

IEC 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-8	+8	-15	+15	-18	+18
Shell edge crack	A	A	A	A	A	A	B	B	B	B

Table 2: Electrostatic Discharge Immunity (Direct Contact)

IEC 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-8	+8	-15	+15	-18	+18
/	/	/	/	/	/	/	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP & VCP)

IEC 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-8	+8	-10	+10	-15	+15
HCP (6 Sides)	A	A	A	A	A	A	A	A	/	/
VCP (4 Sides)	A	A	A	A	A	A	A	A	/	/

Test Result: Pass

8. Continuous RF Electromagnetic Field Disturbances (RS)

8.1 Test Procedure

Test is conducted under the description of IEC 61000-4-3.

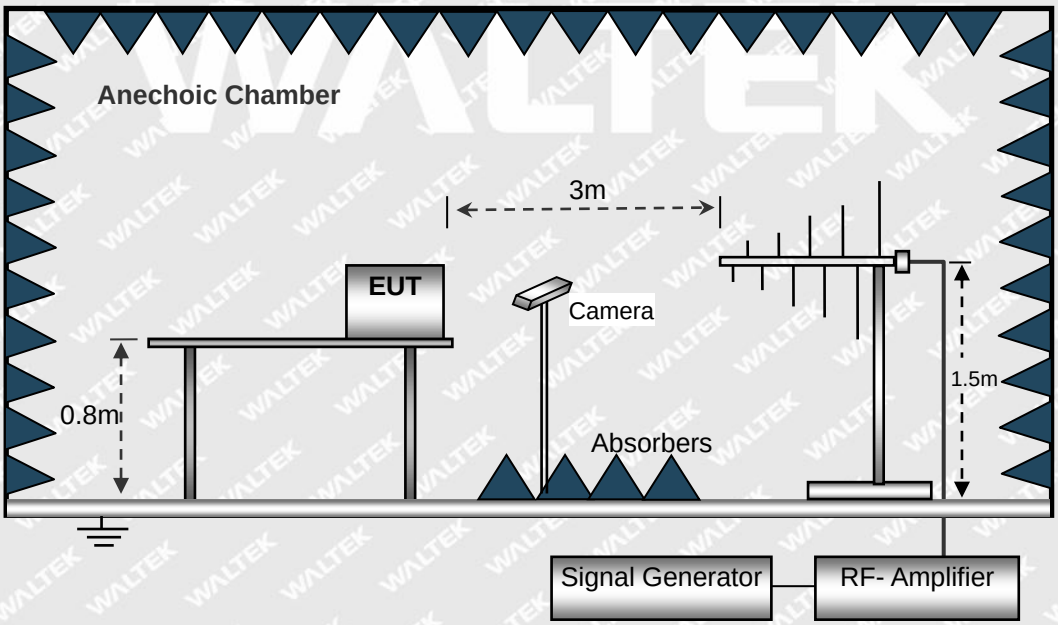
8.2 Test Performance

Performance Criterion: A

8.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

8.4 Basic Test Setup Block Diagram



8.5 Continuous Radiated Disturbances Test Data

Frequency step: 1% of fundamental
Dwell time: 1 second
Modulation: AM by 1kHz sine wave with 80% modulation depth

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	10	A	A	A	A	A	A	A	A
1000-2700	3	A	A	A	A	A	A	A	A

Test Result: Pass

9. Electrical Fast Transients (EFT)

9.1 Test Procedure

Test is conducted under the description of IEC 61000-4-4.

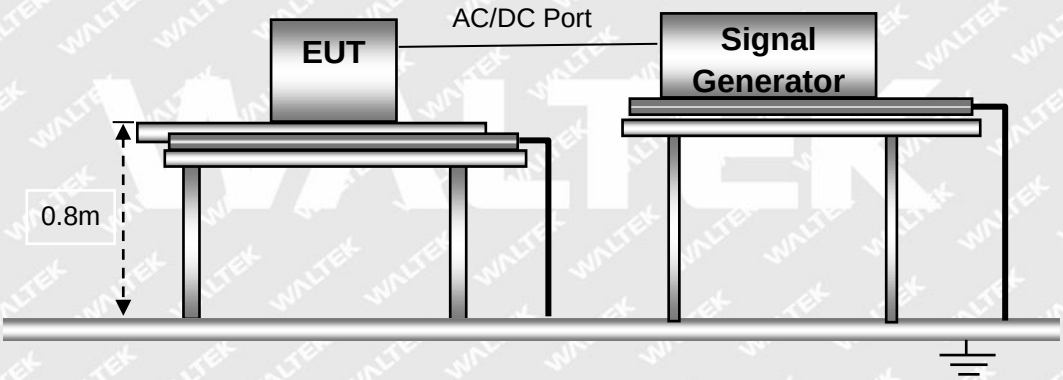
9.2 Test Performance

Performance Criterion: B

9.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

9.4 Basic Test Setup Block Diagram



9.5 Electrical Fast Transients Test Data

Repetition frequency 100 kHz

IEC 61000-4-4 Test Points		Test Voltage (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L	/	/	/	/	/	/	A	A
	N	/	/	/	/	/	/	A	A
	PE	/	/	/	/	/	/	/	/
	L+N	/	/	/	/	/	/	A	A
	L+PE	/	/	/	/	/	/	/	/
	N+PE	/	/	/	/	/	/	/	/
	L+N+PE	/	/	/	/	/	/	/	/
Signal ports	RJ45	/	/	/	/	/	/	/	/

Test Result: Pass

10. Surges

10.1 Test Procedure

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

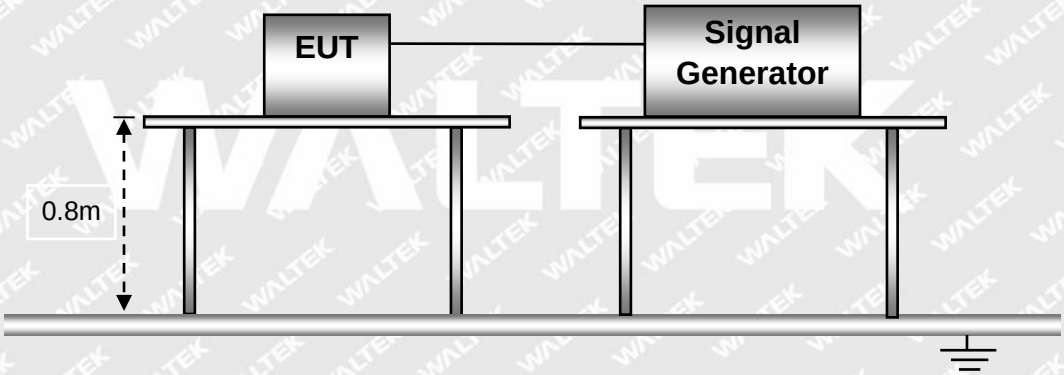
10.2 Test Performance

Performance Criterion: B

10.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

10.4 Basic Test Setup Block Diagram



10.5 Surge Test Data

Test Voltage (kV)	Poll	Path	Pass	Fail
0.5kV	±	L-N, L-PE, N-PE	/	/
1kV	±	L-N, L-PE, N-PE	/	/
1.5kV	±	L-N	A	/
2kV	±	L-PE, N-PE	/	/
4kV	±	L-N, L-PE, N-PE	/	/

Test Result: Pass

11. Continuous Induced RF Disturbances (C/S)

11.1 Test Procedure

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

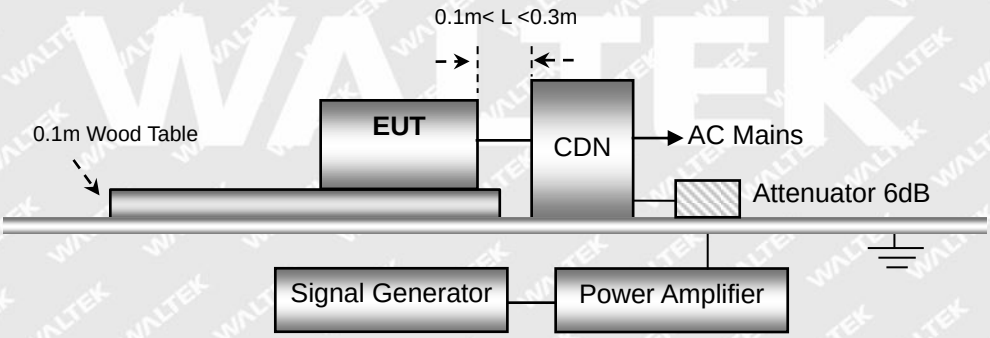
11.2 Test Performance

Performance Criterion: A

11.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

11.4 Basic Test Setup Block Diagram



11.5 Continuous Conducted Disturbances Test Data

Sweep frequency range: 0.15 MHz to 80 MHz
Frequency step: 1% of fundamental
Dwell time: 1 second

AC Port

Frequency MHz	Injected Position	Voltage level (e.m.f.)	Observations (Performance Criterion)	Result
0.15-80	AC Mains	1V	/	Pass
0.15-80	AC Mains	3V	A	Pass
0.15-80	AC Mains	10V	/	Pass

Test Result: Pass

12. Power-Frequency Magnetic Fields (PFMF)

12.1 Test Procedure

Test is conducted under the description of IEC 61000-4-8.

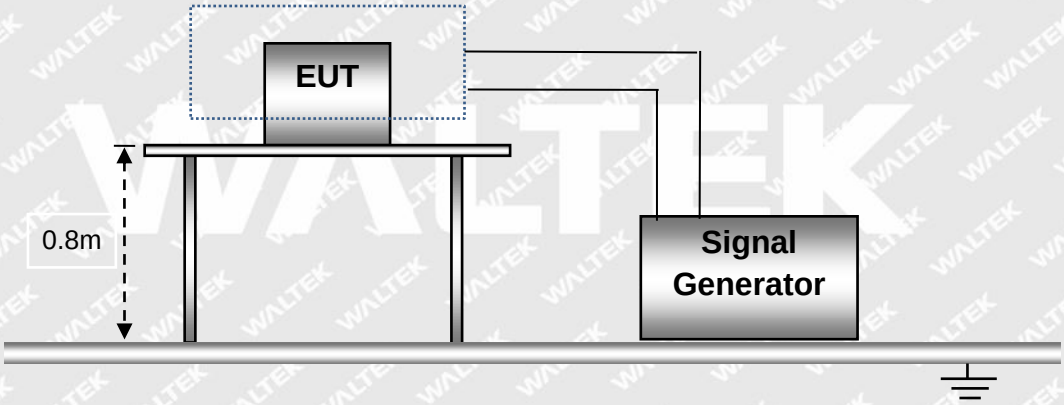
12.2 Test Performance

Performance Criterion: A

12.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

12.4 Basic Test Setup Block Diagram



12.5 Power-Frequency Magnetic Field Test Data

Level	Magnetic Field Strength (r.m.s) A/m	Frequency Hz	Induction Coil Postion	Pass	Fail
1	1	50	X, Y, Z	/	/
2	3	50	X, Y, Z	/	/
3	10	50	X, Y, Z	/	/
4	30	50	X, Y, Z	A	/

Test Result: Pass

13. Voltage Dips and Interruptions

13.1 Test Procedure

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

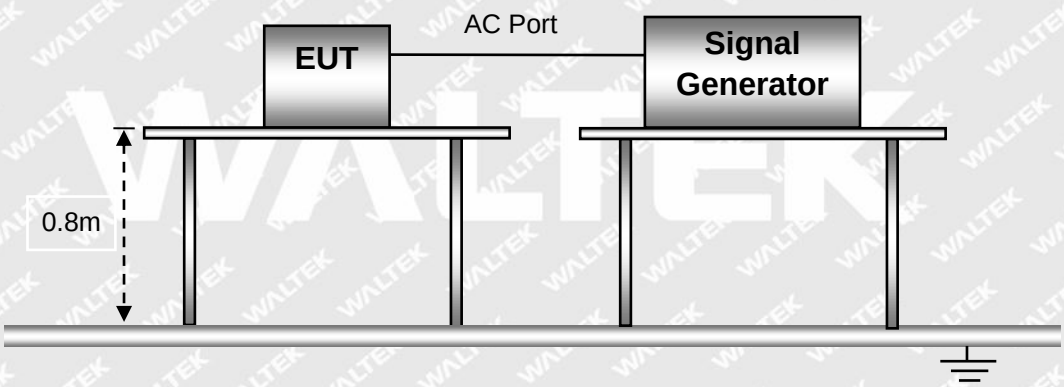
13.2 Test Performance

Performance Criterion: B/C

13.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	997 mbar

13.4 Basic Test Setup Block Diagram



13.5 Voltage Dips And Interruptions Test Data

U: Vlotage dips in % U_T (U_T is rated voltage for the EUT)

T: Test duration

Level	U	T	Phase Angle	N	Pass	Fail
1	100%	10ms	0°/45°/90°/135°/180°,225°/270°/315°	3	A	/
2	100%	20ms	0°/45°/90°/135°/180°,225°/270°/315°	3	A	/
3	70%	500ms	0°/45°/90°/135°/180°,225°/270°/315°	3	B	/
4	100%	5000ms	0°/45°/90°/135°/180°,225°/270°/315°	3	C	/

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. The Importer name, address and Manufacturer name and address should indicate on marking label or packaging or in a document accompanying.

Proposed Label Location on EUT

Label Location

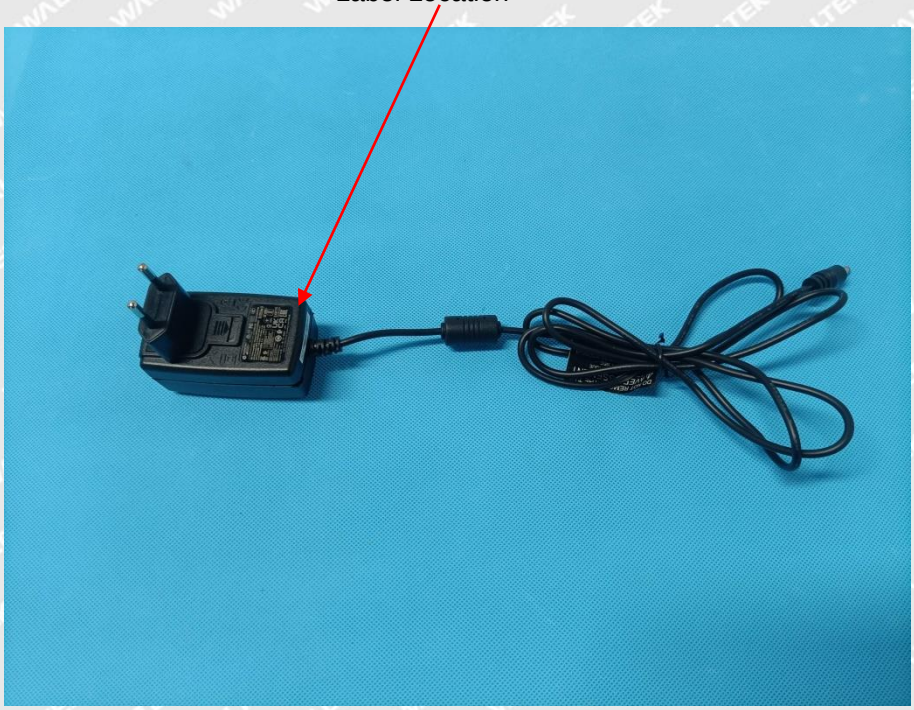


EXHIBIT 2 - EUT PHOTOGRAPHS

GTM96060-0606-1.0

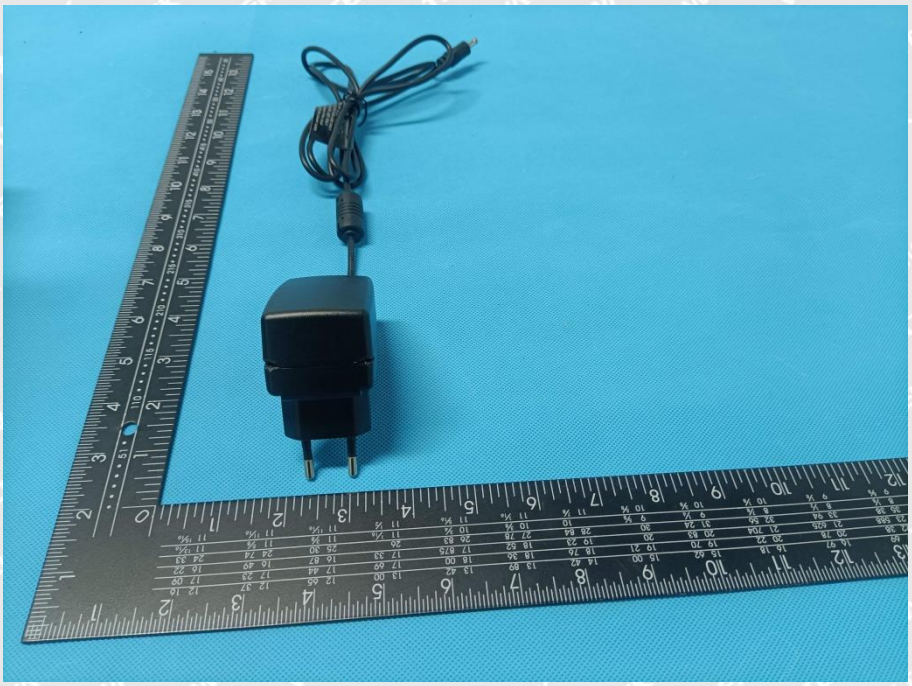
EUT View 1

EUT View 2

EUT View 3

EUT View 4

EUT View 5



EUT View 6

EUT View 7

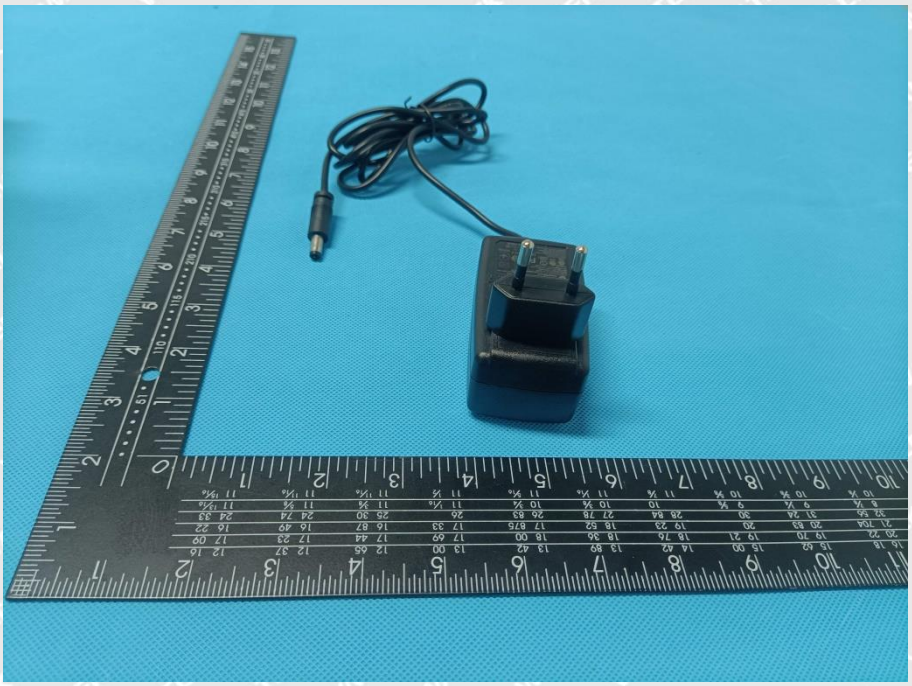
GTM96060-0624
EUT View 8

EUT View 9

EUT View 10

EUT View 11

EUT View 12

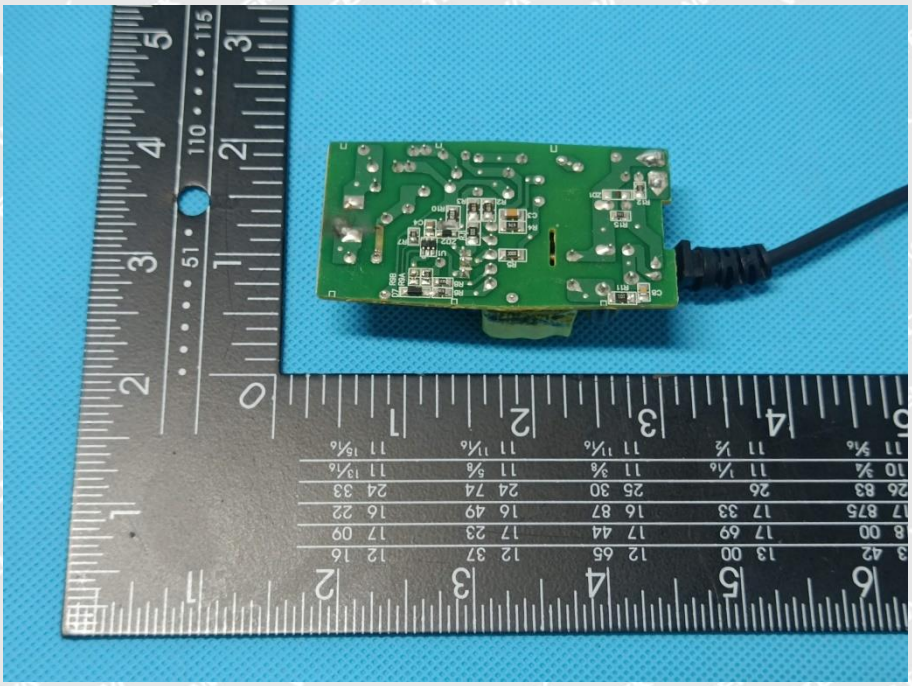


EUT View 13

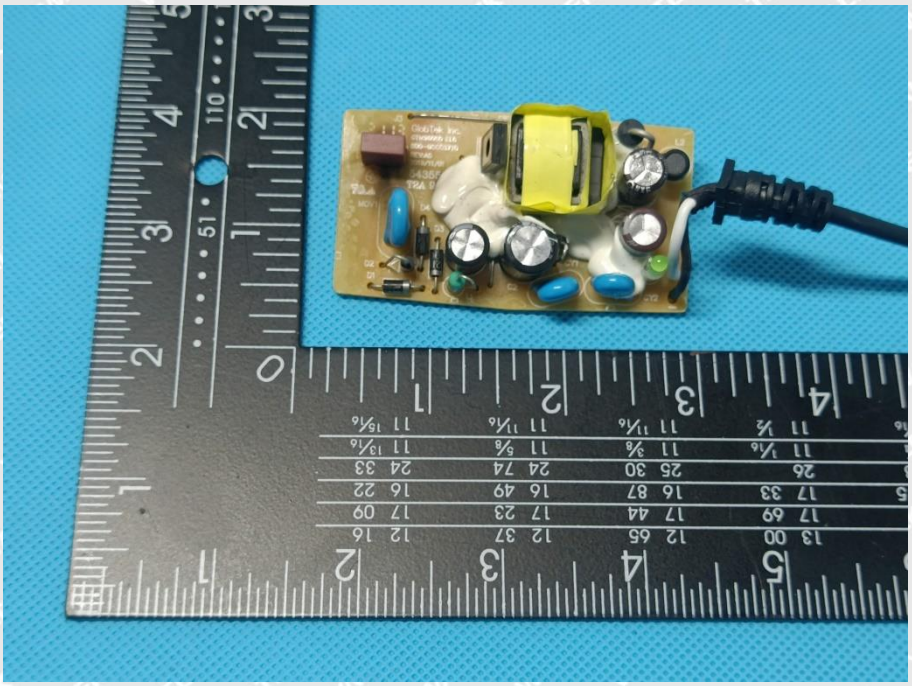
EUT View 14

GTM96060-0606-1.0

Solder Board-Component View 1

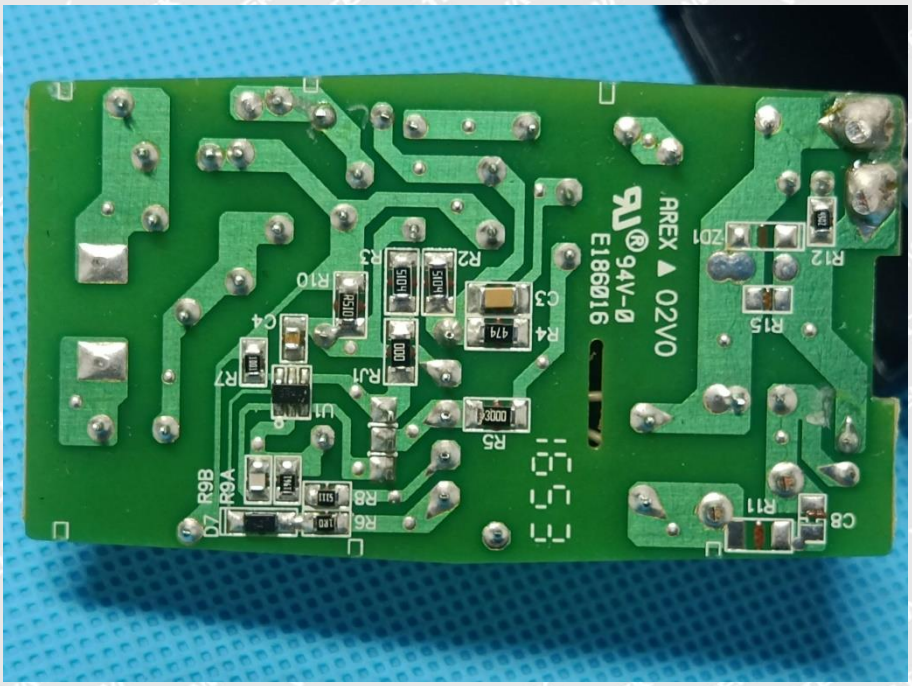


Solder Board-Component View 2



GTM96060-0624

Solder Board-Component View 3



Solder Board-Component View 4

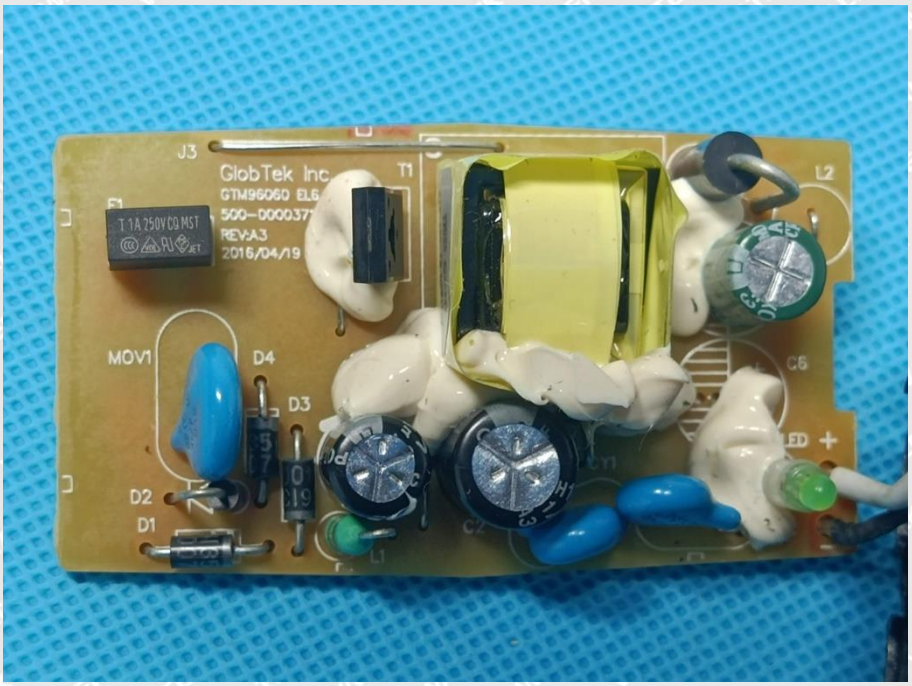
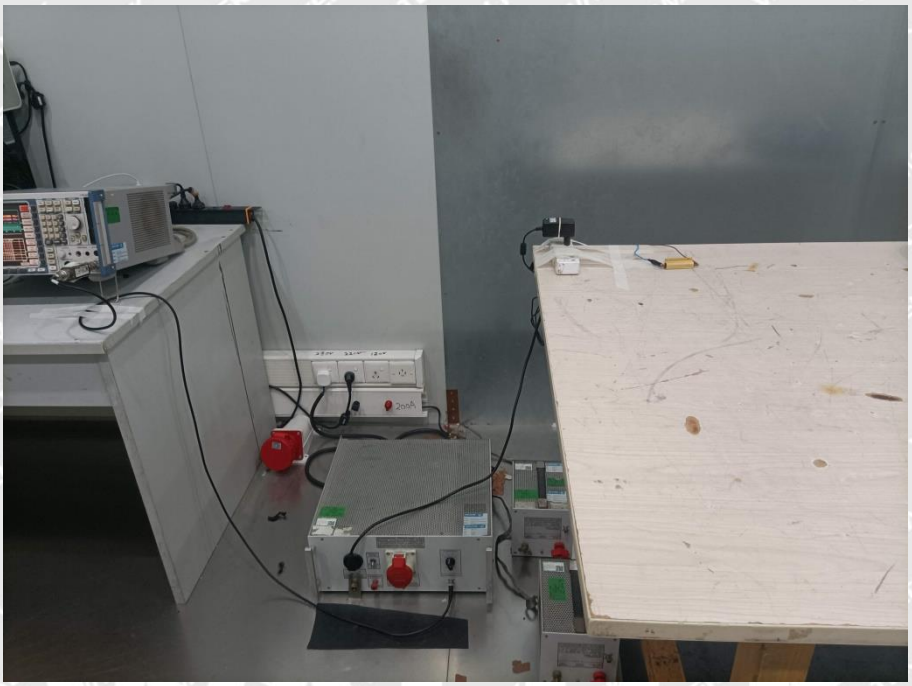
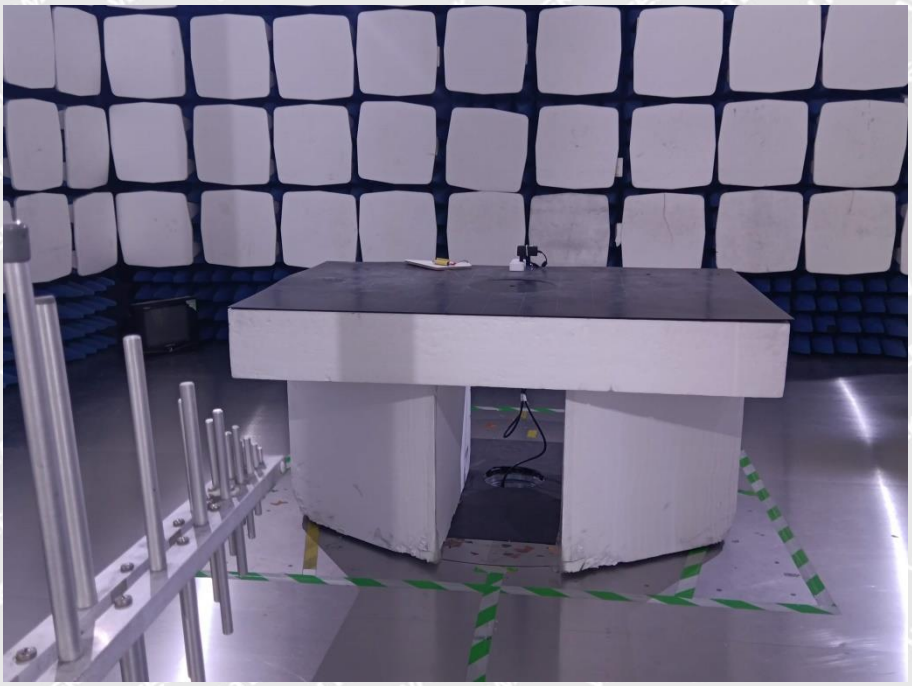


EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

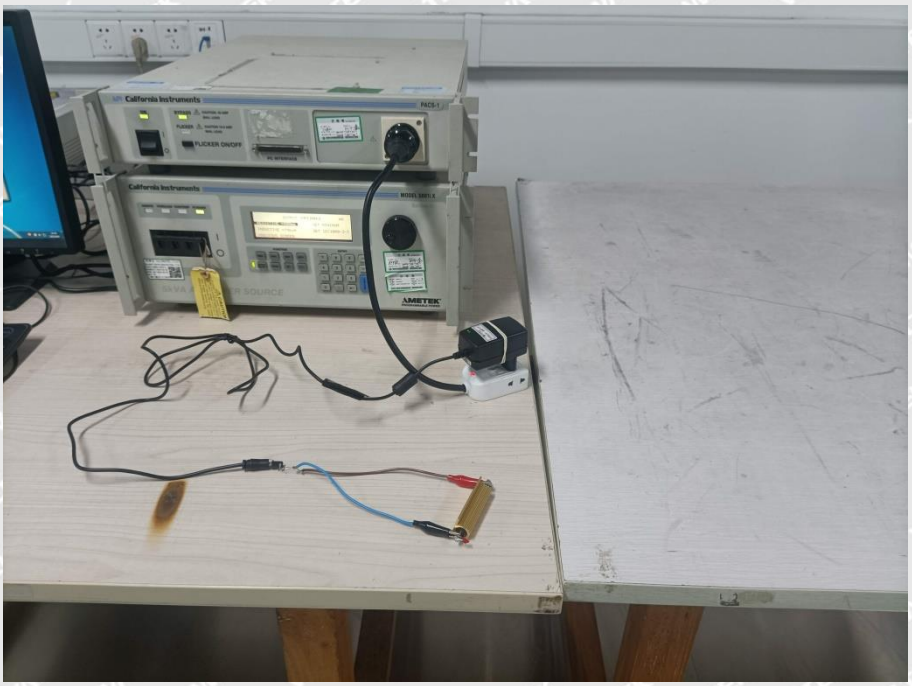
Conduction Emission Test View



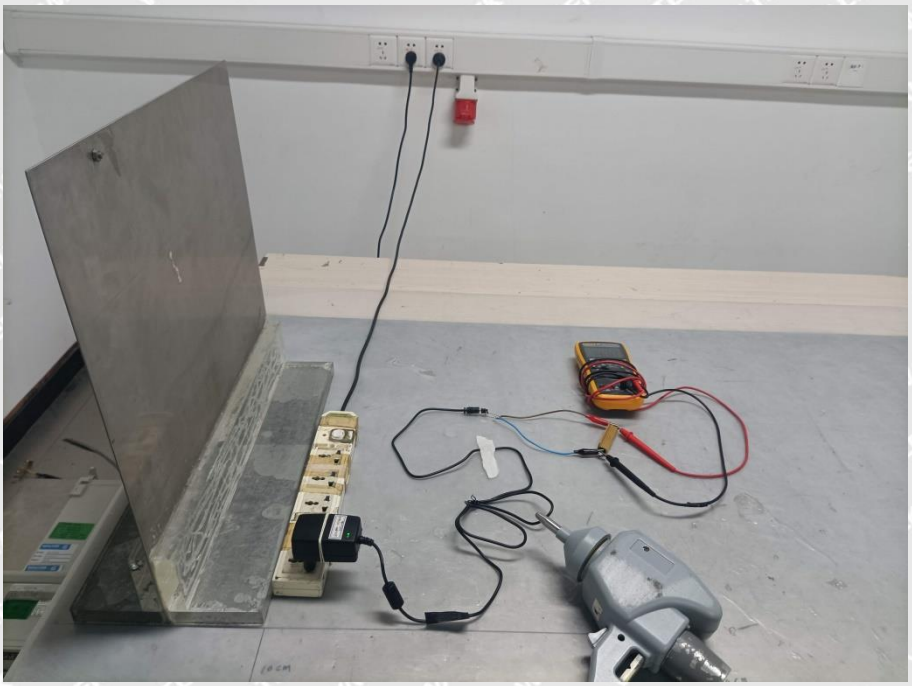
Radiation Emission Test View



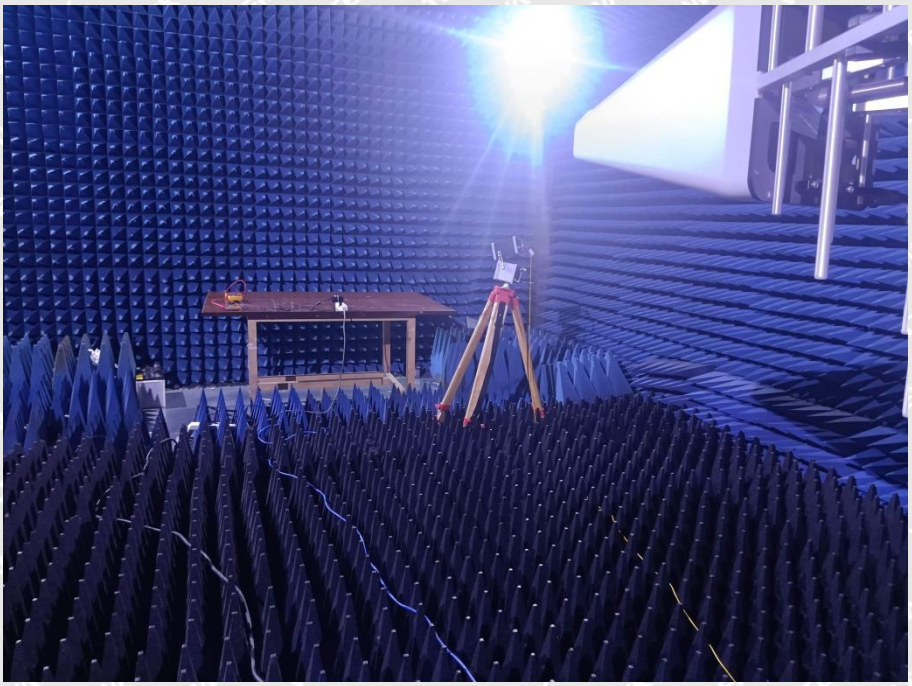
Harmonic/Flicker Test View



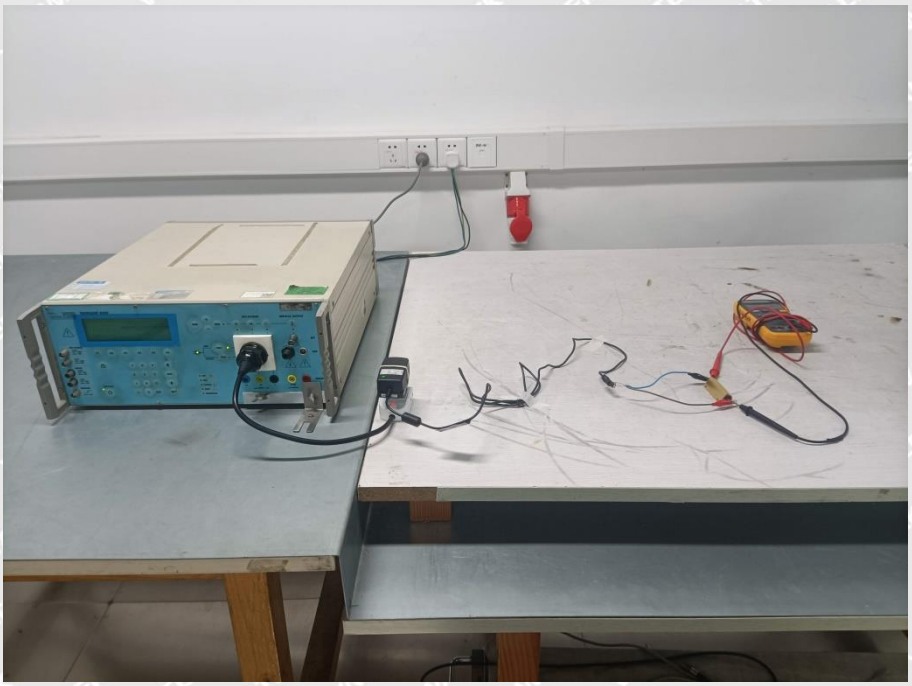
IEC 61000-4-2 Test View



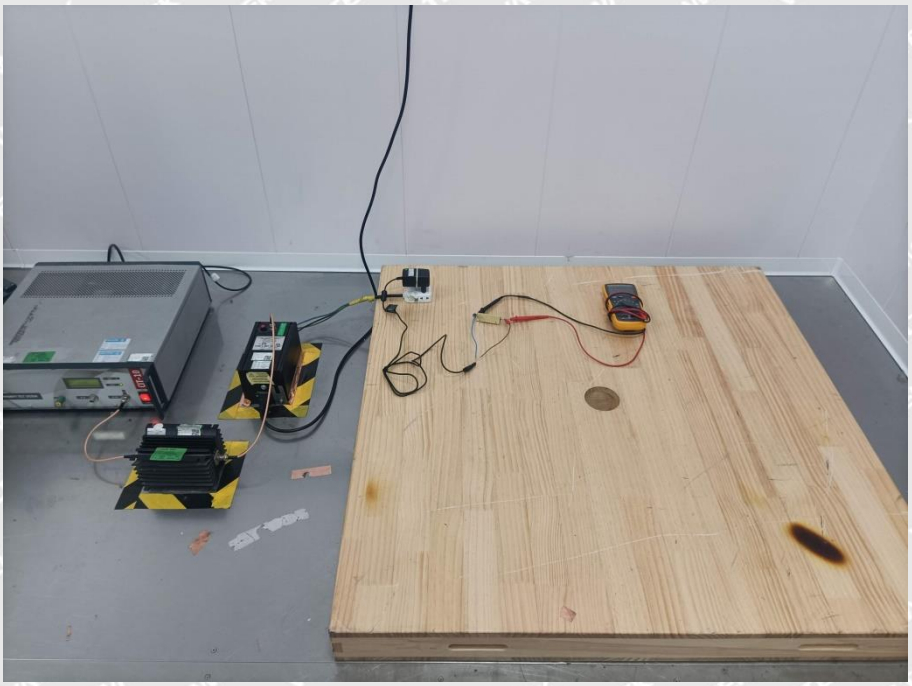
IEC 61000-4-3 Test View



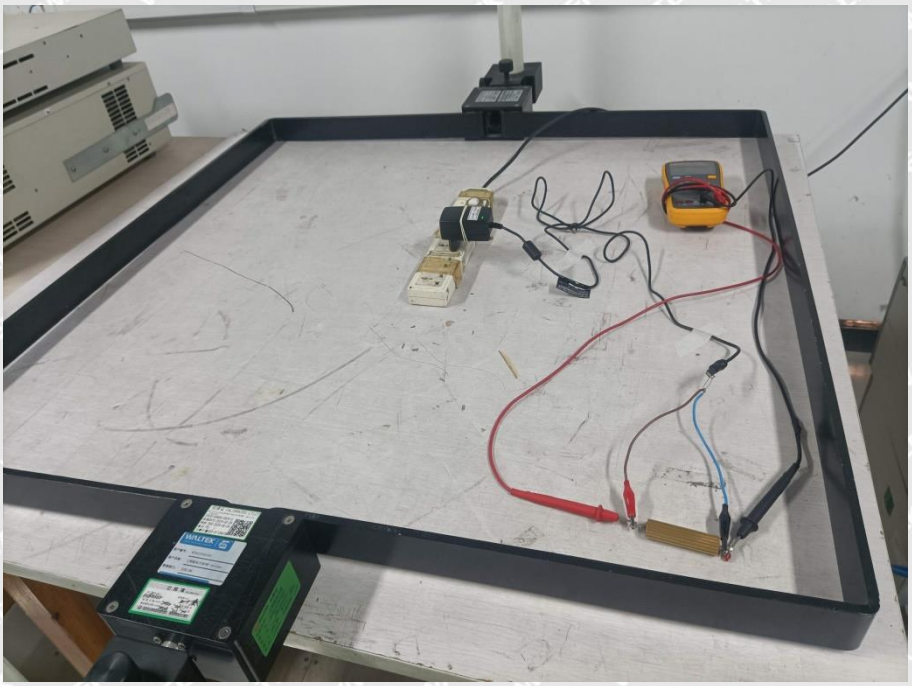
IEC 61000-4-4/5/11 Test View



IEC 61000-4-6 Test View



IEC 61000-4-8 Test View



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