

EMC Test Report

Applicant : ASUSTeK COMPUTER INC.
Applicant Address : 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name : Handheld Console PC
Trade Name : ASUS
Model Number : RC73YA
Applicable Standard : FCC 47 CFR PART 15 SUBPART B
ANSI C63.4: 2014
ANSI C63.4a: 2017
Received Date : Feb. 12, 2025
Test Period : Feb. 24, 2025 ~ Feb. 26, 2025
Issued Date : Apr. 10, 2025

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330
Test Firm MRA designation number: TW1062
Certified Scope: 9 kHz ~ 40 GHz

Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
2. This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised By
00	Apr. 10, 2025	Initial Issue	Rowan Hsieh

Verification of Compliance

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Trade Name : ASUS

Model Number : RC73YA

Applicable Standard : FCC 47 CFR PART 15 SUBPART B
ANSI C63.4: 2014
ANSI C63.4a: 2017

Test Result : Complied

Performing Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.
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The above equipment has been tested by Eurofins E&E Wireless Taiwan Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By : _____

Responsible party:

For products subject to authorization under Supplier's Declaration of Conformity, Asus Computer International shall be the responsible party, as designated in §2.909, of ASUSTeK COMPUTER INC. The name, address and telephone number of Asus Computer International will be provided within the compliance information supplied with the products.



Representative :

Steve Chang / President

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1 General Information

1.1. Summary of Test Result

Emission			
Standard	Item	Result	Remark
FCC 47 CFR PART 15 SUBPART B ANSI C63.4 ANSI C63.4a	Conducted Emission	PASS	Meet Class B limit Minimum margin is -10.63 dB at 17.7900 MHz
	Radiated Emission below 1 GHz	PASS	Meet Class B limit Minimum margin is -4.10 dB at 158.6677 MHz
	Radiated Emission above 1 GHz	PASS	Meet Class B limit Minimum margin is -8.16 dB at 15994.000 MHz

Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)

Site Address: No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2

Test Item		Test Site	Frequency Range	Uncertainty (dB)
Conducted Emission	AC Power Port	Conduction01-BD	9 kHz ~ 150 kHz	± 2.7
			150 kHz ~ 30 MHz	± 2.7
		Conduction01-WG	9 kHz ~ 150 kHz	± 2.6
			150 kHz ~ 30 MHz	± 2.9

Test Item	Test Site	Frequency Range	Uncertainty (dB)	
Radiated Emission	10M-BD	30 MHz ~ 1000 MHz	Horizontal	± 4.9
			Vertical	± 5.1
	96601-BD	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.9
			1000 MHz ~ 6000 MHz	± 4.8
			6000 MHz ~ 18000 MHz	± 5.1
			18000 MHz ~ 26500 MHz	± 4.2
			26500 MHz ~ 40000 MHz	± 4.1
	96602-BD	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.9
			1000 MHz ~ 6000 MHz	± 4.7
			6000 MHz ~ 18000 MHz	± 4.6
			18000 MHz ~ 26500 MHz	± 4.0
			26500 MHz ~ 40000 MHz	± 4.1
	96601-WG	30 MHz ~ 1000 MHz	30 MHz ~ 1000 MHz	± 4.7
			1000 MHz ~ 6000 MHz	± 4.2
			6000 MHz ~ 18000 MHz	± 4.3
			18000 MHz ~ 26500 MHz	± 3.4
			26500 MHz ~ 40000 MHz	± 3.4

1.4. Test Site Environment

Test Item	Items	Required (IEC 60068-1)	Interval(*)
Conducted Emission	Temperature (°C)	15-35	15-30
	Humidity (%RH)	25-75	45-75
	Barometric pressure (mbar)	860-1060	990-1005
Radiated Emission	Temperature (°C)	15-35	15-30
	Humidity (%RH)	25-75	45-75
	Barometric pressure (mbar)	860-1060	990-1005

(*)The measurement ambient temperature is within this range.

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Applicant	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name	Handheld Console PC
Trade Name	ASUS
Model Number	RC73YA
I/O Ports	Refer to the user manual provided by clients.
Highest Operating Frequency	7.125 GHz
EUT Power Rating	DC 20 V, 3.25 A

Keypart List:

Description	Vendor	Model No.	Spec.
Mainboard	ASUS	F7D	---
CPU	AMD	AMD Ryzen™ Z2 A	PIN number: 1385
LCD	BOE	TS070FHM-LU0	LCD TOUCH SCREEN 7.0' FHD GL EDP 120HZ
	TIANMA	TL070FVXS01	LCD TOUCH SCREEN 7.0' FHD GL EDP 120HZ
On board memory	---	---	16 GB
M.2 SSD	HYNIX	HFS512GEM9X174N	512 GB
	HYNIX	HFS001TEM9X174N	1 TB
	Western Digital	SDEQNSJ-512G-1002	512 GB
	Western Digital	SDEQNSJ-1T00-1002	1 TB
	MICRON	MTFDKBA1T0QGN	1 TB
	MICRON	MTFDKBA512QGN	512 GB
Wireless Module	MediaTek	MT7922A12L	WiFi6E AX+BT5.2(2*2)M.2 1216
Battery	DYNA	C41N2407	Rating: 15.44 VDC, 3888 mAh(Typical) / 3775 mAh(Rated)
Adapter	Delta	ADP-65JW Y	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.95 m
	Delta	ADP-65SD D	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.6 m
	Chicony	W23-065N2A	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W PPS: 5 – 21 V, 3.25 A, 65 W Max Cable out: Non-Shielded, 1.95 m

3 Test Methodology

3.1. Decision of Test Mode

3.1.1. The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode	
Mode 1:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C (HDD) + USB Type-C (Adapter: ADP-65SD D) (AC 120 V, 60 Hz)
Mode 2:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C out 3840 x 2160 / 60 Hz + USB Type-C (Adapter: ADP-65SD D) (AC 120 V, 60 Hz)
Mode 3:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C out 3840 x 2160 / 60 Hz + USB Type-C (Adapter: ADP-65JW Y) (AC 120 V, 60 Hz)
Mode 4:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C (Adapter: W23-065N2A) + USB Type-C out 3840 x 2160 / 60 Hz (AC 120 V, 60 Hz)
Mode 5:	LCD 1920 x 1080 / 120 Hz + Bluetooth + Wi-Fi link + Earphone + Micro SD Card + USB Type-C out 3840 x 2160 / 60 Hz + USB Type-C (Adapter: ADP-65SD D) (AC 240 V, 60 Hz)

3.1.2. After the preliminary scan, the following test mode was final mode and found to produce the highest emission level.

Final Test Mode			
Emission	Conducted Emission		Mode 2 / Mode 3 / Mode 4
	Radiated Emission	Below 1 GHz	Mode 2 / Mode 3 / Mode 4
		Above 1 GHz	Mode 2 / Mode 3 / Mode 4

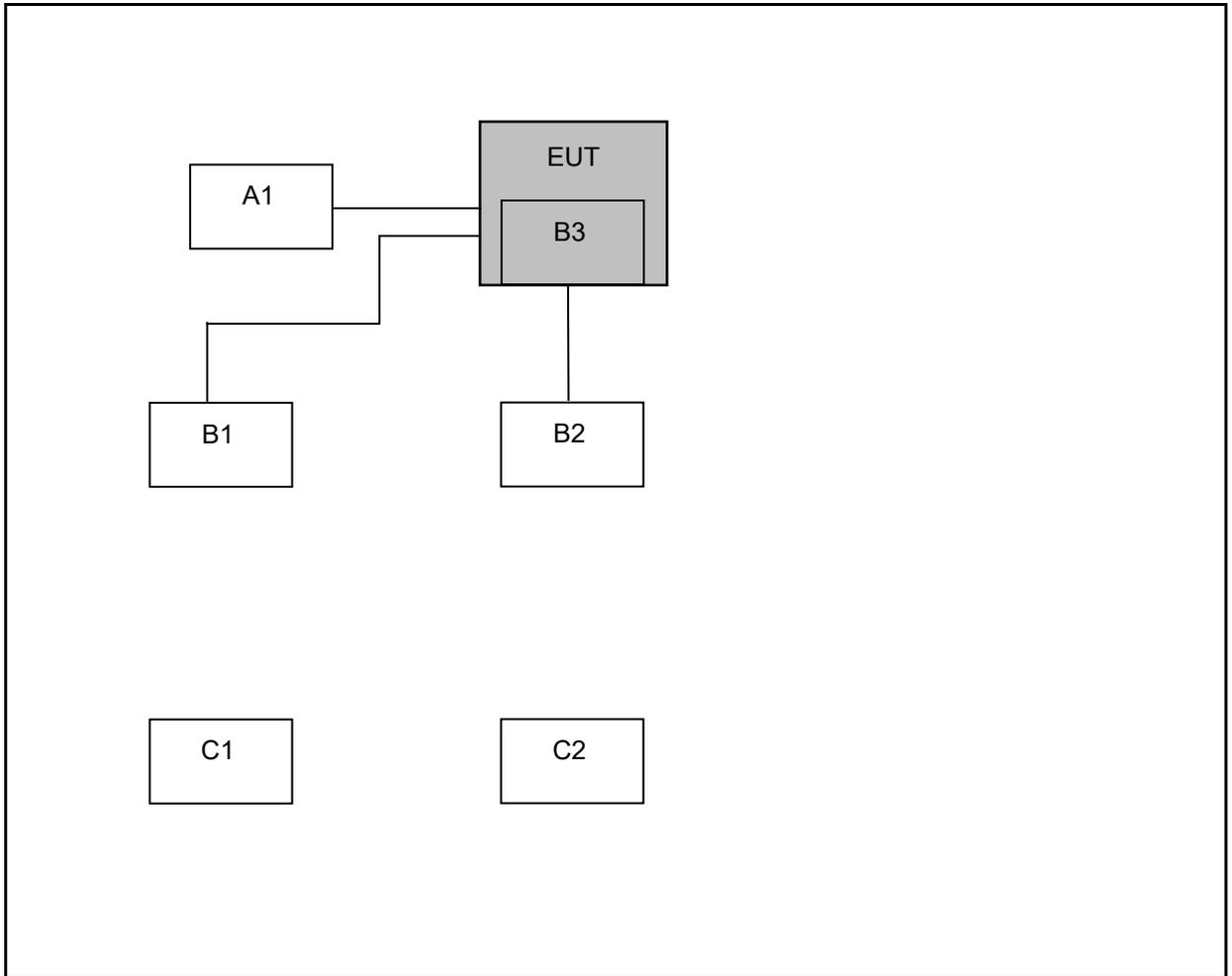
Matrix:

Description	Vendor	Model No.	Spec.	Mode				
				1	2	3	4	5
Mainboard	ASUS	F7D	---	V	V	V	V	V
CPU	AMD	AMD Ryzen™ Z2 A	PIN number: 1385	V	V	V	V	V
LCD	BOE	TS070FHM-LU0	LCD TOUCH SCREEN 7.0' FHD GL EDP 120 HZ			V		
	TIANMA	TL070FVXS01	LCD TOUCH SCREEN 7.0' FHD GL EDP 120 HZ	V	V		V	V
On board memory	---	---	16 GB	V	V	V	V	V
M.2 SSD	HYNIX	HFS512GEM9X174N	512 GB					
	HYNIX	HFS001TEM9X174N	1 TB	V	V			V
	Western Digital	SDEQNSJ-512G-1002	512 GB					
	Western Digital	SDEQNSJ-1T00-1002	1 TB				V	
	MICRON	MTFDKBA1T0QGN	1 TB			V		
	MICRON	MTFDKBA512QGN	512 GB					
Wireless Module	MediaTek	MT7922A12L	WIFI6E AX+BT5.2(2*2)M.2 1216	V	V	V	V	V
Battery	DYNA	C41N2407	Rating: 15.44 VDC, 3888 mAh(Typical) / 3775 mAh(Rated)	V	V	V	V	V
Adapter	Delta	ADP-65JW Y	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.95 m			V		
	Delta	ADP-65SD D	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W Cable out: Non-Shielded, 1.6 m	V	V			V
	Chicony	W23-065N2A	Input: AC 100-240 V~, 50/60 Hz, 1.5 A Output: DC 5 V, 3 A, 15 W / DC 9 V, 3 A / DC 15 V, 3 A / DC 20 V, 3.25 A, 65 W PPS: 5 – 21 V, 3.25 A, 65 W Max Cable out: Non-Shielded, 1.95 m				V	

3.2. EUT Test Step

- 1.Setup the EUT and simulators as shown on 3.3.
- 2.Turn on the power all equipment.
- 3.The EUT link to Bluetooth headset by Bluetooth.
- 4.The EUT link to AP by Wi-Fi.
- 5.Connected SD Card and transfer data (SD Read / Write: BurnIn).
- 6.Perform EMC test program and run "H" pattern.
- 7.Start to test till get the worst reading.

3.3. Configuration of Test System Details



Test Setup					
No.	Setup Peripherals	Connection type	Test Mode		
			2	3	4
A1	Adapter	USB Type-C Cable	V	V	V
B1	Monitor	Type-C DP Cable	V	V	V
B2	Earphone & Microphone	Audio Cable	V	V	V
B3	SD Card	SD I/O interface Without Cable	V	V	V
C1	AP	Wi-Fi	V	V	V
C2	Bluetooth Headset	BT	V	V	V

Support Unit used in test configuration and system						
	Product	Trade Name	Model Number	Serial Number	Data Cable	Power Cord
(1)	Monitor	ASUS	MX27U	J3LMRS000036	Shielded, 1.2 m	Non-Shielded, 1.8 m with one Core
(2)	Earphone & Microphone	SeeHot	SH-MHS500	N/A	Non-Shielded, 1.2 m	N/A
(3)	Micro SD Card	Transcend	64 GB	N/A	N/A	N/A
(4)	AP	ASUS	GT-AXE11000	M2IAJF2000200	N/A	Non-Shielded, 0.8 m
(5)	Bluetooth headset	SONY	WI-SP500	N/A	N/A	N/A

3.4. Test Instruments

Test Period: Feb. 24, 2025

Testing Engineer: Chichang Lin

Conducted Emission test site					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	May 21, 2024	1 year
LISN	R&S	ENV216	101040	Mar. 21, 2024	1 year
Cable	Woken	00100D1380194M	TE-02-03 (CB-098)	Jun. 05, 2024	1 year
Test Site	Eurofins	Conduction01-BD	Conduction01-BD	N.C.R.	-----
Software	EZ EMC	1.1.4.3	-----	-----	-----

Test Period: Feb. 25, 2025 ~ Feb. 26, 2025

Testing Engineer: Marco Chiu

Radiated Emission - 10 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Amplifier	EMCI	EMC9135	980298	Oct. 24, 2024	1 year
Amplifier	EMCI	EMC9135	980299	Nov. 25, 2024	1 year
Test Receiver	R&S	ESCI	101000	Nov. 21, 2024	1 year
Test Receiver	R&S	ESCI	100722	Oct. 24, 2024	1 year
Broadband Antenna	Schwarzbeck	SB AC VULB	9168-671	Dec. 25, 2024	1 year
Broadband Antenna	Schwarzbeck	SB AC VULB	9168-670	Nov. 13, 2024	1 year
RF Cable	EMC	EMC102-N-N-6000	TE06-H-1	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-7000	TE06-H-2	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-3000	TE06-H-3	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-1000	TE06-H-4	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-7000	TE06-V-2	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-3000	TE06-V-3	Feb. 05, 2025	1 year
RF Cable	EMC	EMC102-N-N-1000	TE06-V-4	Feb. 05, 2025	1 year
RF Cable	EMC	EMC104-N-N-6000	TE06-V-5	Feb. 05, 2025	1 year
Software	EZ EMC	1.1.4.2	----	----	----
Test Site(NSA)	Eurofins	10M-BD	10M-BD	Oct. 07, 2024	1 year

Note: N.C.R. = No Calibration Request.

Test Period: Feb. 24, 2025

Testing Engineer: Jason Tsai

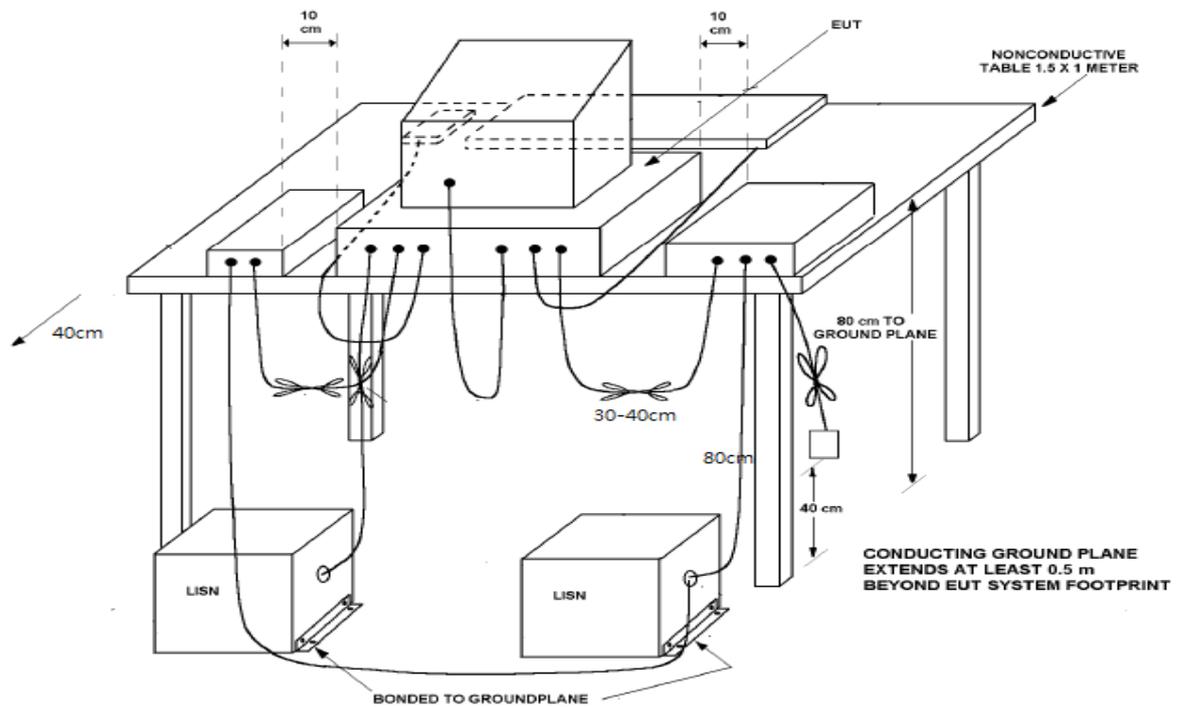
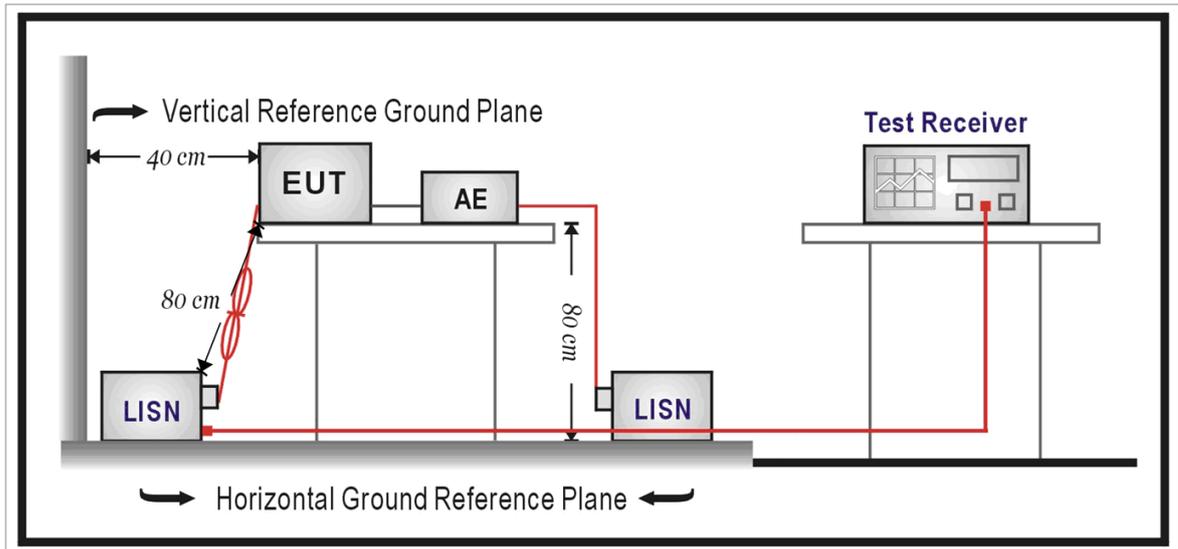
Radiated Emission - 3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Keysight	N9010A	MY52221312	Jan. 10, 2025	1 year
Amplifier (1-26.5 GHz)	EMCI	EMC012645SE	980289	Jul. 23, 2024	1 year
Double Ridged Horn Antenna (1-18 GHz)	ETS	3117	00152321	Oct. 01, 2024	1 year
Microwave Cable	SUHNER	suflex104	313229/4	Jan. 15, 2025	1 year
Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	Jan. 15, 2025	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	Jan. 15, 2025	1 year
Horn Antenna (18-40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	9170	9170-320	Jul. 22, 2024	1 year
Amplifier (26.5-40 GHz)	EMCI	EMC2654045	980028	Sep. 02, 2024	1 year
Software	EZ EMC	1.1.4.2	-----	-----	-----
Test Site(VSWR)	Eurofins	96601-BD	96601-BD	Jul. 29, 2024	1 year

Note: N.C.R. = No Calibration Request.

4 Measurement Procedure

4.1. Conducted Emission

■ Test Setup



■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50 \Omega // 50 \mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50 \Omega // 50 \mu\text{H}$ coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

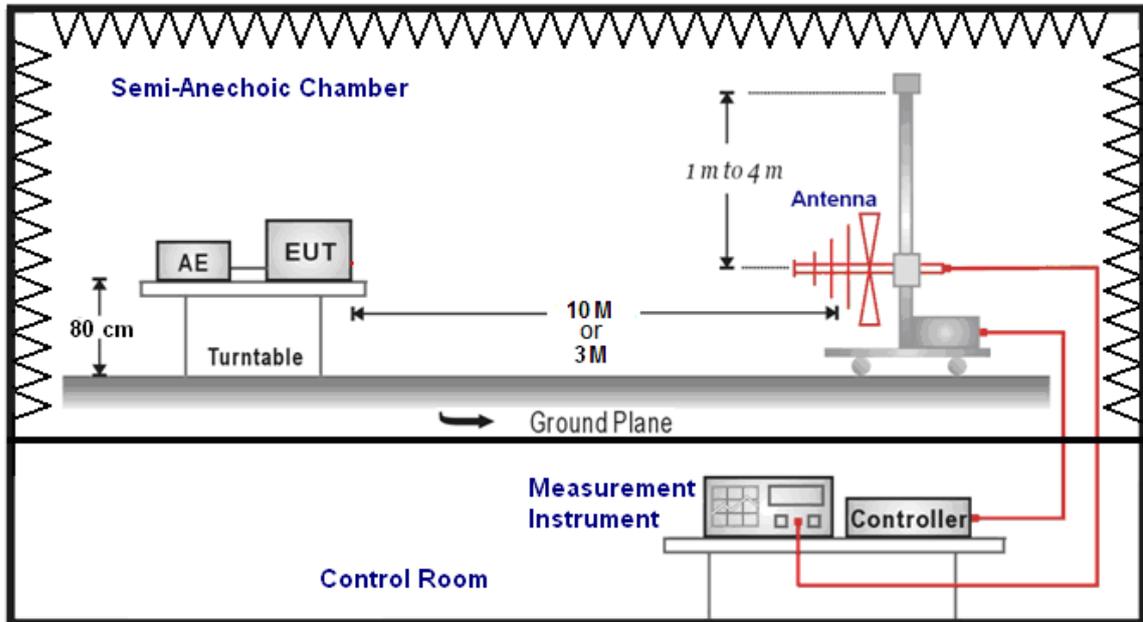
The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

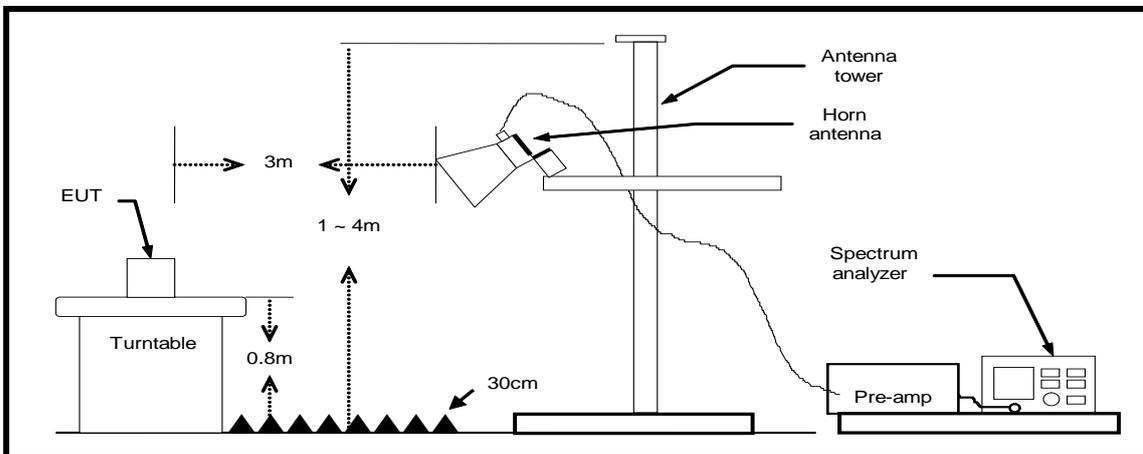
4.2. Radiated Emission

■ Test Setup

Below 1 GHz



Above 1 GHz



■ Test Procedure

Below 1 GHz

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. When the EUT is floor-standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.

The turn table is 0.8 m height and 2.0 m wide x 1.0 m deep size. It can rotate 360 degrees to determine the position of the maximum emission level. The spacing between the each equipment was 10 cm. The mains cables are dropped to floor and are round to receptacle. Interconnecting cables of table top equipment that hang closer than 0.4m to the ground plane are folded back and forth forming a bundle 0.3 m to 0.4 m long, hanging approximately in the middle between ground plane and table. The EUT was positioned such that the distance from antenna to the EUT was 10 or 3 meters and the receive antenna was moved from 1 m to 4 m to investigate maximum highest emission at least 6 points over the frequency range from 30 MHz to 1 GHz using a resolution bandwidth of 120 kHz and measured by the quasi-peak detector.

According to this standard paragraph 15.109, as an alternative to the radiated emission limits, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement".

The Quasi-Peak instrument is used for the detection. The method of measuring the quasi-peak is as follows:

1. The height of the antenna is fixed at the maximum value. Rotate the turntable and find the angle of the turntable where the EUT produces the maximum value.
2. Fixed at the angle of the turntable with the maximum value, and then lifting antenna to look for the antenna height where the EUT emission could reach the maximum value.
3. If the maximum value does not change, record the maximum field strength, antenna height and turntable angle.
4. If the maximum value rises, fixed antenna height and rotated the turn-table to find the angle of the turntable where the EUT produces the maximum value.
5. Obtain the maximum interference value at each frequency band with the same operation.

Above 1 GHz

The Setup is same as Below 1 GHz placement. The turn table is 0.8 m height and 1.8m wide x 1.0m deep size.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meter for above 1 GHz, the highest frequency performed according to internal source frequency of the EUT, the specification was below:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Absorber shall be spread between floor of a turn table and a receive antenna shown in 4.2.3. The antenna used boresight antenna master from 1 meter and 4 meters to find out the maximum emission level and find the highest emission at least 6 points. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

Radiated emissions were applied to above 1 GHz using a resolution bandwidth of 1 MHz and measured by the peak and average detector which antenna to the EUT distance was 3 meters. If the EUT was meet both limits and measurement with the average detector receiver is unnecessary.

The method of measuring the average is as follows:

1. Antenna is fixed at a height of 1 M, and the turntable rotates to find the maximum angle.
2. Fixed at the angle of the turntable with the maximum value, and then lifting antenna to look for the antenna height where the EUT emission could reach the maximum value.
3. If the maximum value does not change, record the maximum field strength, antenna height and turntable angle.
4. If the maximum value rises, fixed antenna height and rotated the turn-table to find the angle of the turntable where the EUT produces the maximum value.
5. Measurement the average value, adjust the VBW to 10 Hz and record the value.

5 Requirements and Performance Criteria

5.1. Conducted Emission

■ Limit

A.C. Main conducted interference Limit

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

5.2. Radiated Emission

■ Limit

Under 1 GHz test shall not exceed following value

FCC 47 CFR PART 15 SUBPART B								
Frequency range (MHz)	Class A				Class B			
	Distance (m)	dBuV/m						
30 to 88	10	39	3	49.5	10	29.5	3	40
88 to 216	10	43.5	3	54	10	33.1	3	43.5
216 to 960	10	46.4	3	56.9	10	35.6	3	46
Above 960	10	49.5	3	60	10	43.5	3	54

CISPR 22				
Frequency range (MHz)	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30 to 230	10	40	10	30
230 to 1000	10	47	10	37

Above 1 GHz test shall not exceed following value

Frequency (MHz)	dBuV/m (Distance 3m)			
	Class A		Class B	
	Average	Peak	Average	Peak
1000 ~ 40000	60	80	54	74

- Remark:
1. The tighter limit shall apply at the edge between two frequency bands.
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)
 4. Peak detector limit is corresponding to 20 dB above the maximum permitted average limit.

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

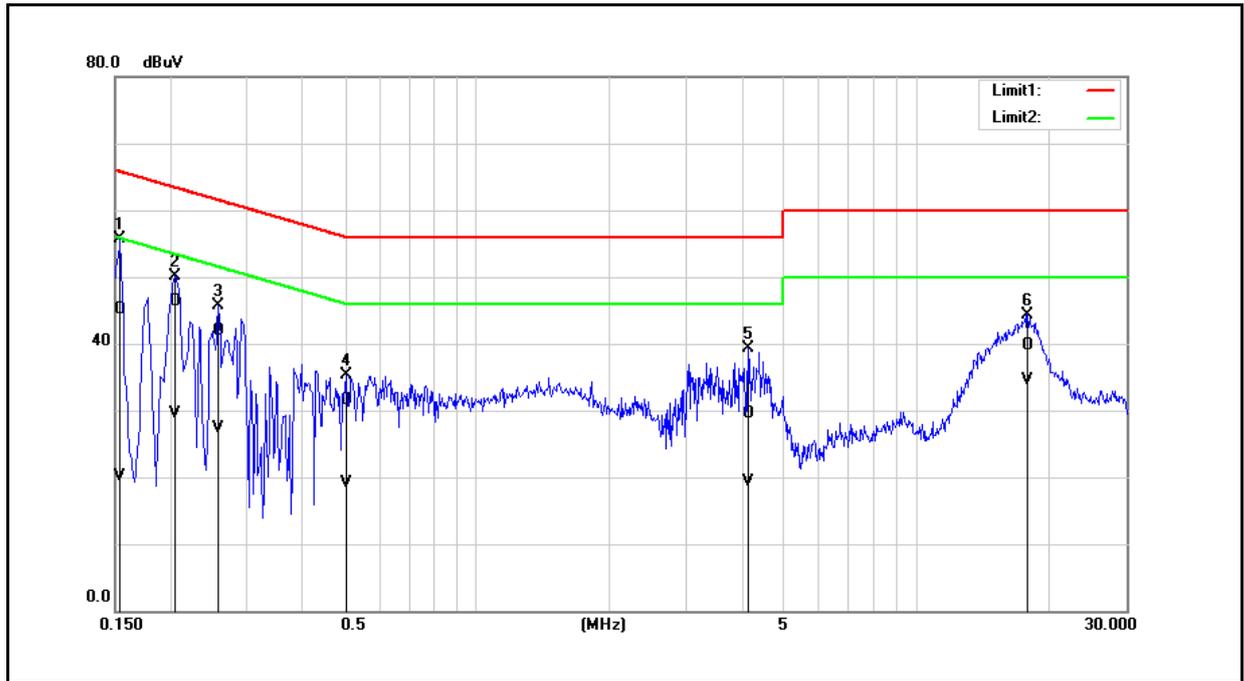
Highest frequency generated or used in the device or in which the device operated or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

6 Test Result

6.1. Conducted Emission

■ Test Result

Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Description:			

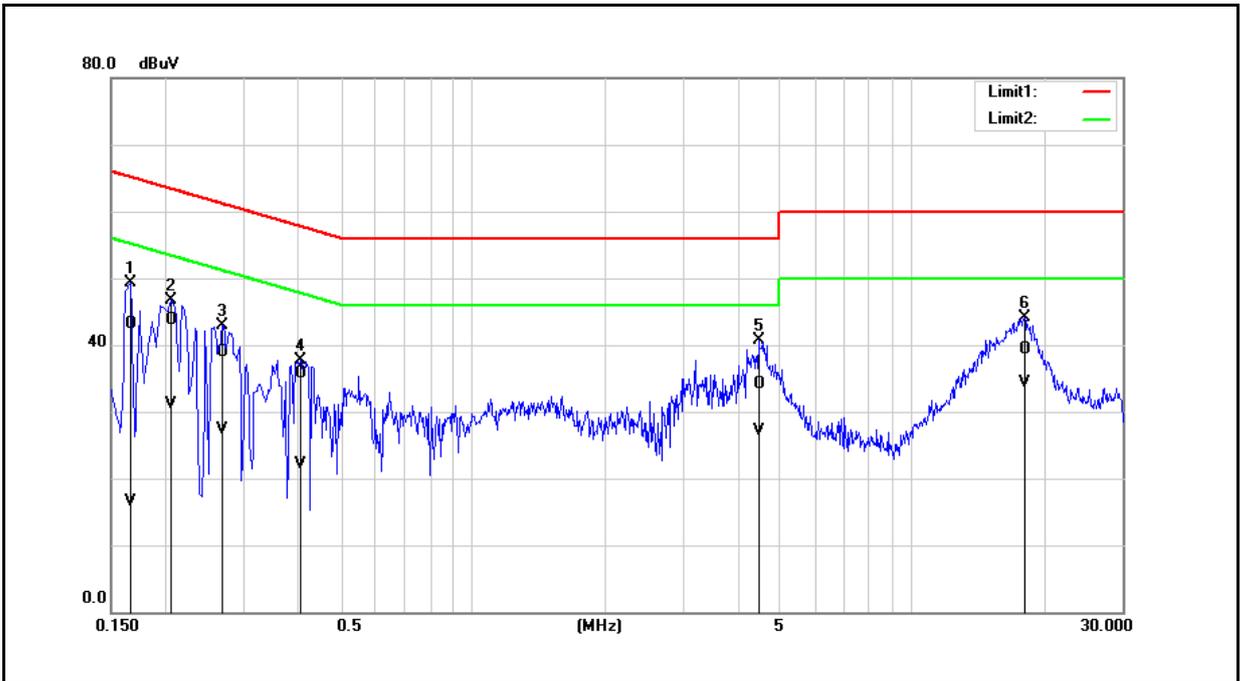


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	35.50	10.49	9.63	45.13	20.12	65.78	55.78	-20.65	-35.66	Pass
2	0.2060	36.63	19.96	9.62	46.25	29.58	63.37	53.37	-17.12	-23.79	Pass
3	0.2580	32.36	17.70	9.62	41.98	27.32	61.50	51.50	-19.52	-24.18	Pass
4	0.5020	21.81	9.43	9.64	31.45	19.07	56.00	46.00	-24.55	-26.93	Pass
5	4.1420	19.74	9.61	9.77	29.51	19.38	56.00	46.00	-26.49	-26.62	Pass
6	17.9140	29.61	24.43	10.00	39.61	34.43	60.00	50.00	-20.39	-15.57	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

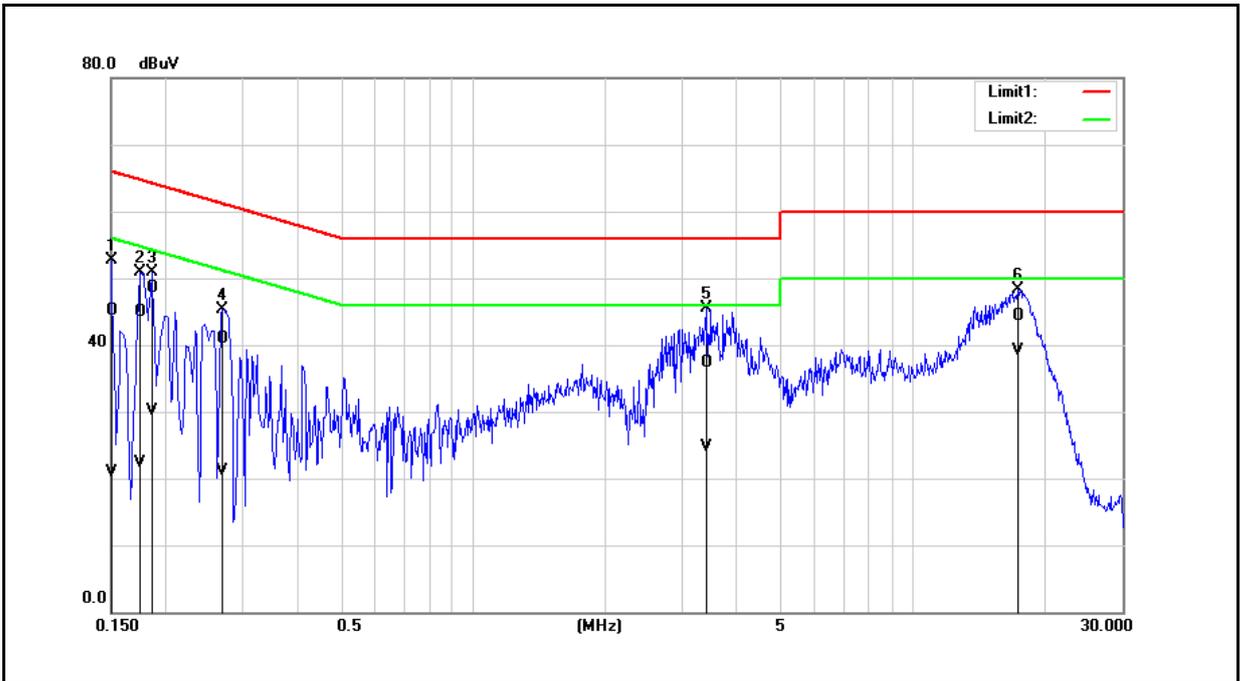
Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	33.47	6.93	9.62	43.09	16.55	65.16	55.16	-22.07	-38.61	Pass
2	0.2060	34.02	21.41	9.62	43.64	31.03	63.37	53.37	-19.73	-22.34	Pass
3	0.2700	29.27	17.74	9.62	38.89	27.36	61.12	51.12	-22.23	-23.76	Pass
4	0.4060	26.15	12.39	9.63	35.78	22.02	57.73	47.73	-21.95	-25.71	Pass
5	4.4660	24.34	17.38	9.78	34.12	27.16	56.00	46.00	-21.88	-18.84	Pass
6	18.0180	29.30	24.14	10.08	39.38	34.22	60.00	50.00	-20.62	-15.78	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading (dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

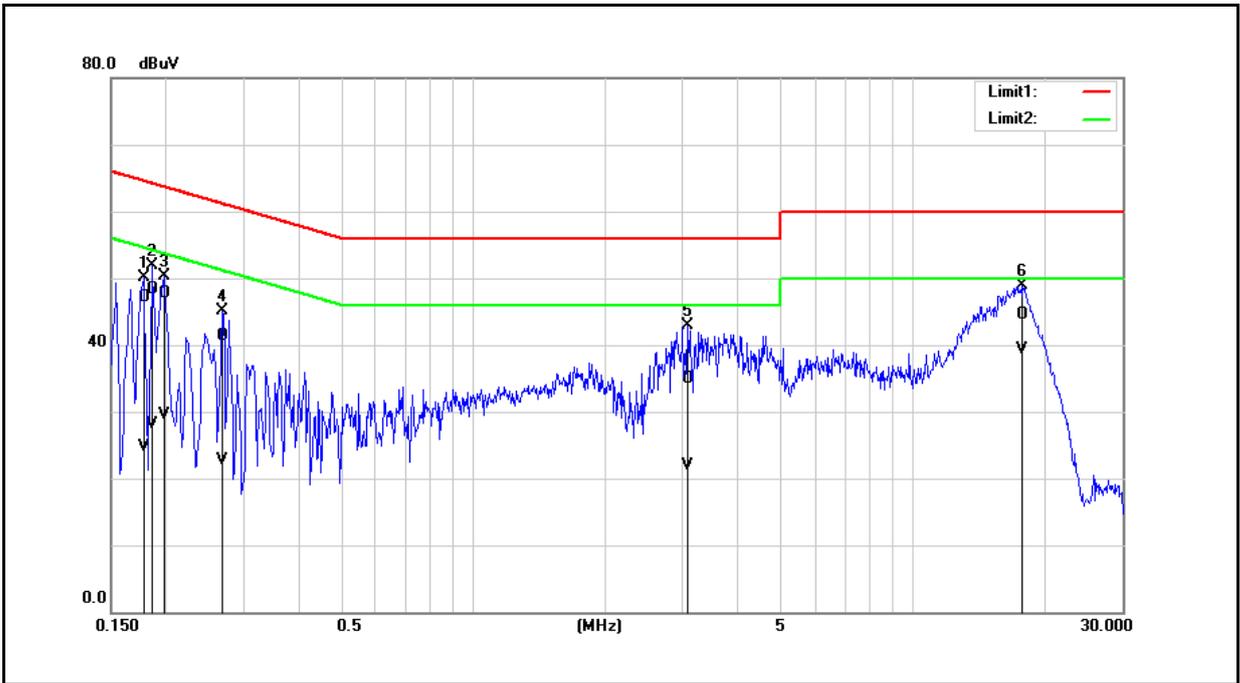
Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	35.39	11.36	9.62	45.01	20.98	66.00	56.00	-20.99	-35.02	Pass
2	0.1740	35.19	12.68	9.63	44.82	22.31	64.77	54.77	-19.95	-32.46	Pass
3	0.1860	38.85	20.55	9.62	48.47	30.17	64.21	54.21	-15.74	-24.04	Pass
4	0.2700	31.34	11.46	9.62	40.96	21.08	61.12	51.12	-20.16	-30.04	Pass
5	3.4100	27.54	14.91	9.74	37.28	24.65	56.00	46.00	-18.72	-21.35	Pass
6	17.3300	34.27	29.07	9.98	44.25	39.05	60.00	50.00	-15.75	-10.95	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

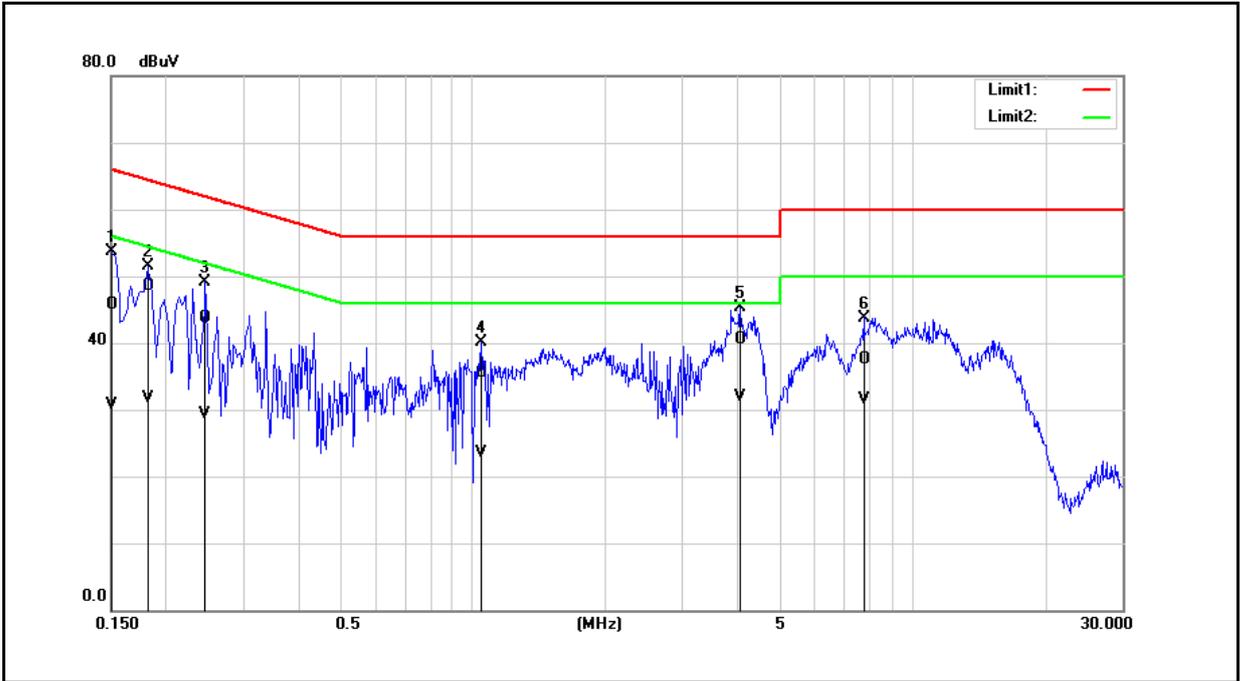
Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1780	37.55	15.14	9.62	47.17	24.76	64.58	54.58	-17.41	-29.82	Pass
2	0.1860	38.69	18.53	9.62	48.31	28.15	64.21	54.21	-15.90	-26.06	Pass
3	0.1980	38.05	19.87	9.62	47.67	29.49	63.69	53.69	-16.02	-24.20	Pass
4	0.2700	31.62	13.02	9.62	41.24	22.64	61.12	51.12	-19.88	-28.48	Pass
5	3.0900	25.25	12.24	9.74	34.99	21.98	56.00	46.00	-21.01	-24.02	Pass
6	17.7900	34.42	29.29	10.08	44.50	39.37	60.00	50.00	-15.50	-10.63	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

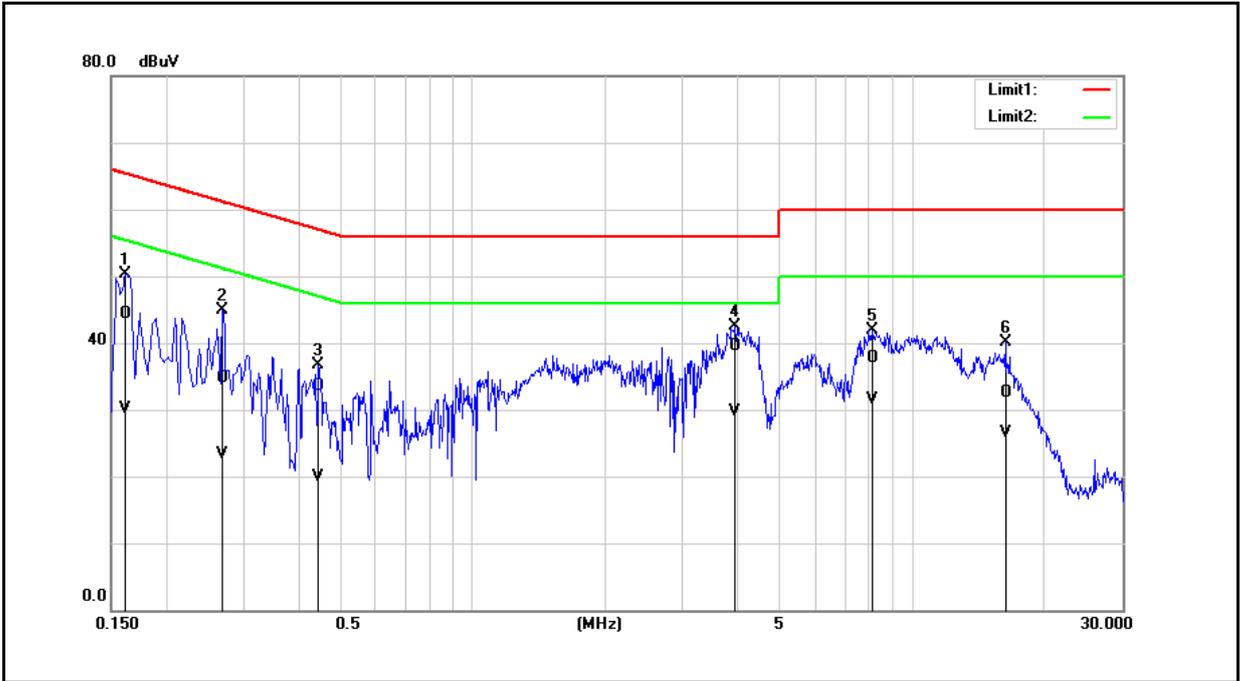
Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	36.05	21.13	9.62	45.67	30.75	66.00	56.00	-20.33	-25.25	Pass
2	0.1820	38.98	22.02	9.62	48.60	31.64	64.39	54.39	-15.79	-22.75	Pass
3	0.2460	34.03	19.66	9.62	43.65	29.28	61.89	51.89	-18.24	-22.61	Pass
4	1.0460	25.81	13.74	9.67	35.48	23.41	56.00	46.00	-20.52	-22.59	Pass
5	4.0620	30.68	22.06	9.76	40.44	31.82	56.00	46.00	-15.56	-14.18	Pass
6	7.7300	27.68	21.66	9.83	37.51	31.49	60.00	50.00	-22.49	-18.51	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Description:			



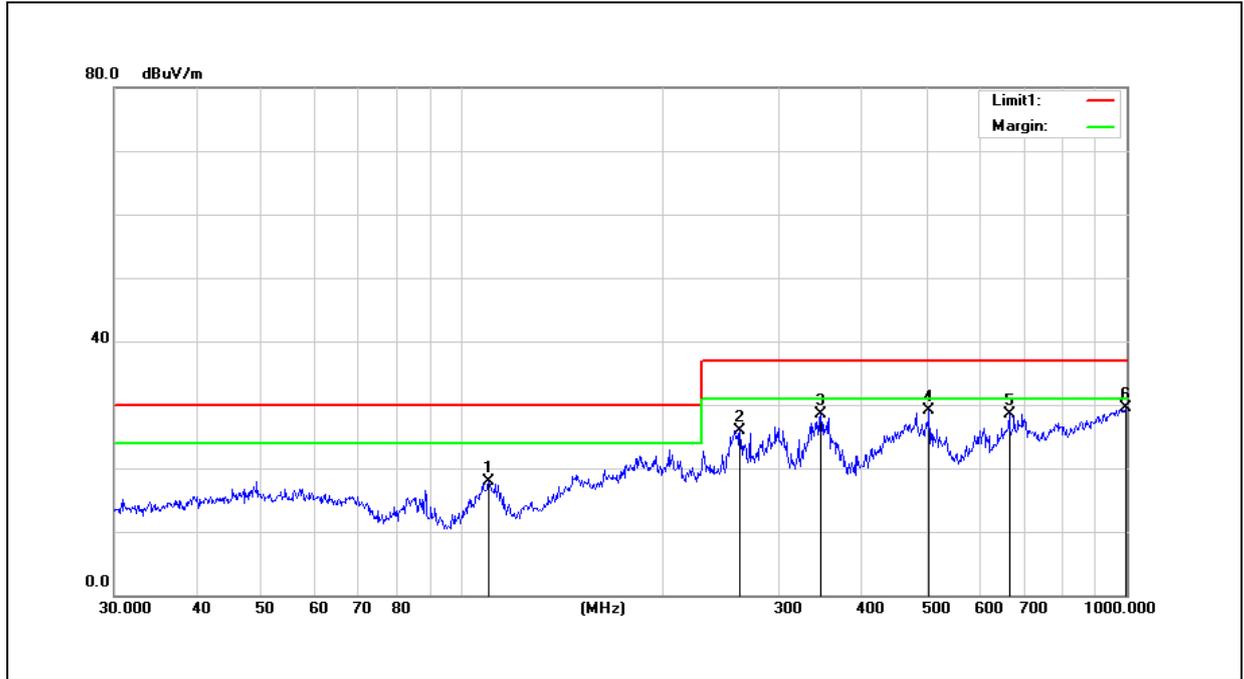
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	34.71	20.47	9.62	44.33	30.09	65.36	55.36	-21.03	-25.27	Pass
2	0.2700	25.18	13.59	9.62	34.80	23.21	61.12	51.12	-26.32	-27.91	Pass
3	0.4460	23.83	10.32	9.64	33.47	19.96	56.95	46.95	-23.48	-26.99	Pass
4	3.9540	29.78	19.86	9.76	39.54	29.62	56.00	46.00	-16.46	-16.38	Pass
5	8.1260	27.75	21.58	9.87	37.62	31.45	60.00	50.00	-22.38	-18.55	Pass
6	16.2500	22.40	16.40	10.05	32.45	26.45	60.00	50.00	-27.55	-23.55	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading (dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

6.2. Radiated Emission

■ Test Result

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Horizontal

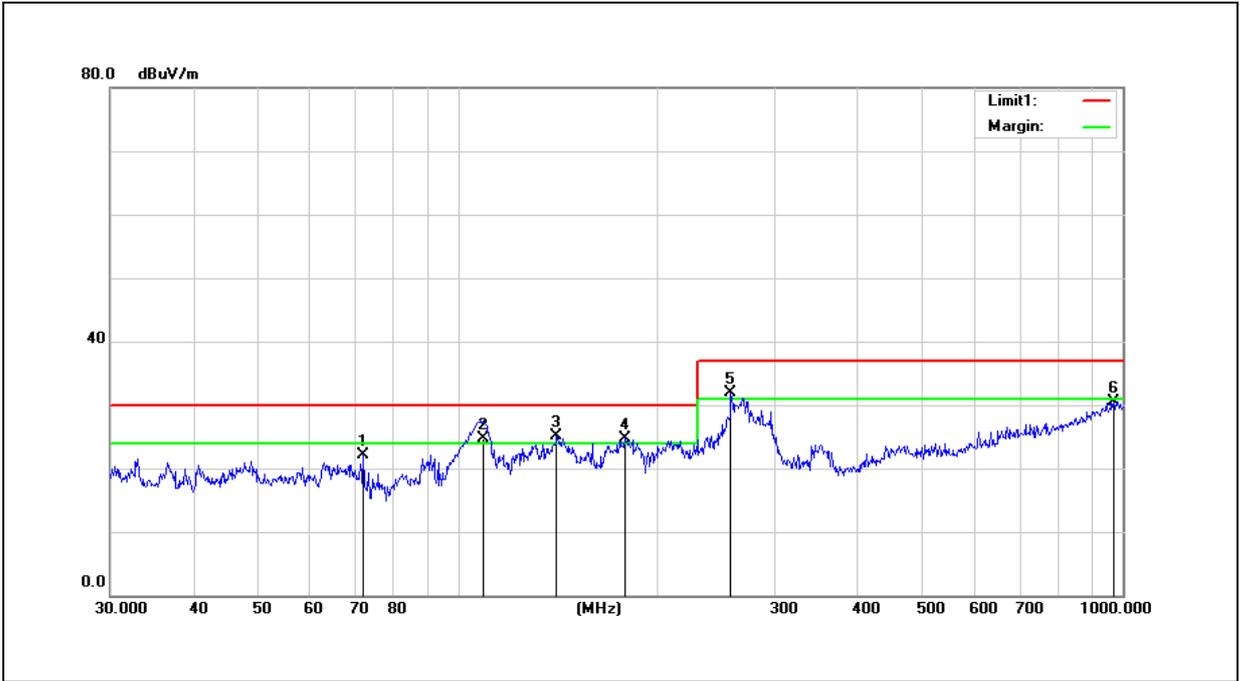


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	109.7960	36.95	-19.05	17.90	30.00	-12.10	400	195	QP
2	261.9753	42.23	-16.23	26.00	37.00	-11.00	160	0	QP
3	346.8092	42.21	-13.71	28.50	37.00	-8.50	200	199	QP
4	504.7062	39.06	-9.96	29.10	37.00	-7.90	141	0	QP
5	665.8035	35.89	-7.39	28.50	37.00	-8.50	100	55	QP
6	996.4996	31.63	-2.13	29.50	37.00	-7.50	100	87	QP

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

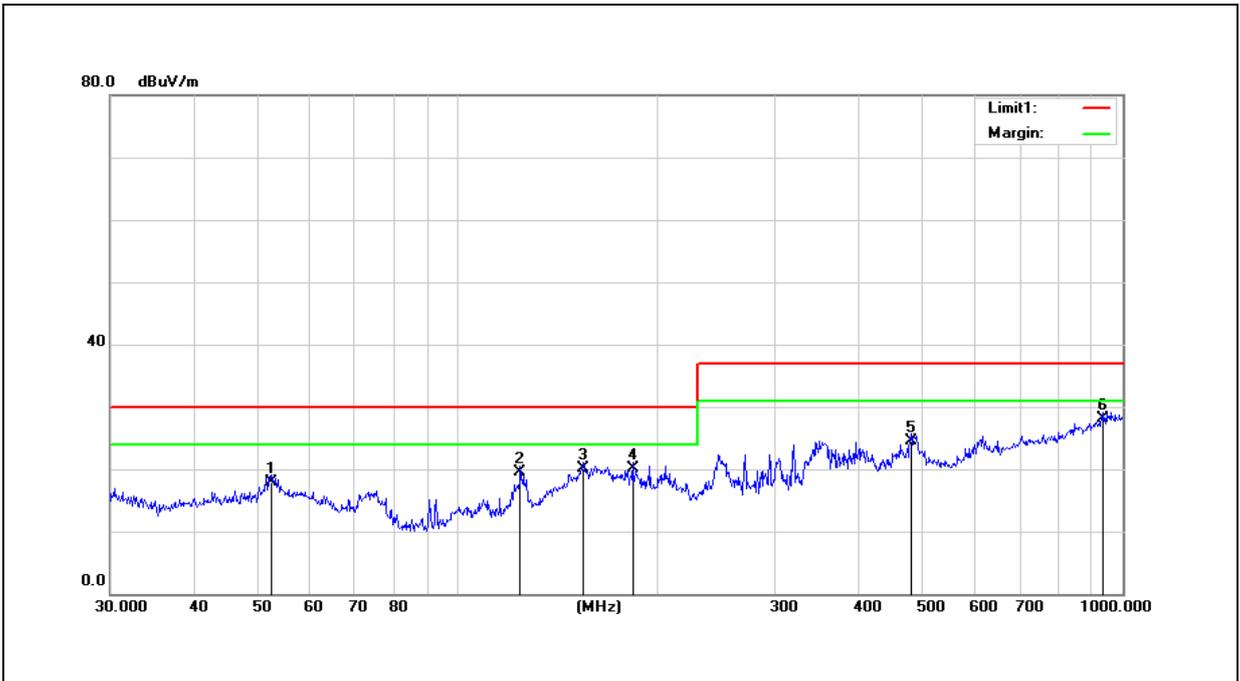
Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	72.0843	40.55	-18.45	22.10	30.00	-7.90	299	75	QP
2	109.0286	43.00	-18.30	24.70	30.00	-5.30	199	302	QP
3	140.8351	40.29	-15.19	25.10	30.00	-4.90	100	188	QP
4	178.1327	40.31	-15.51	24.80	30.00	-5.20	200	360	QP
5	257.4222	46.72	-14.72	32.00	37.00	-5.00	300	0	QP
6	968.9338	29.45	1.05	30.50	37.00	-6.50	100	0	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).
 2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Horizontal

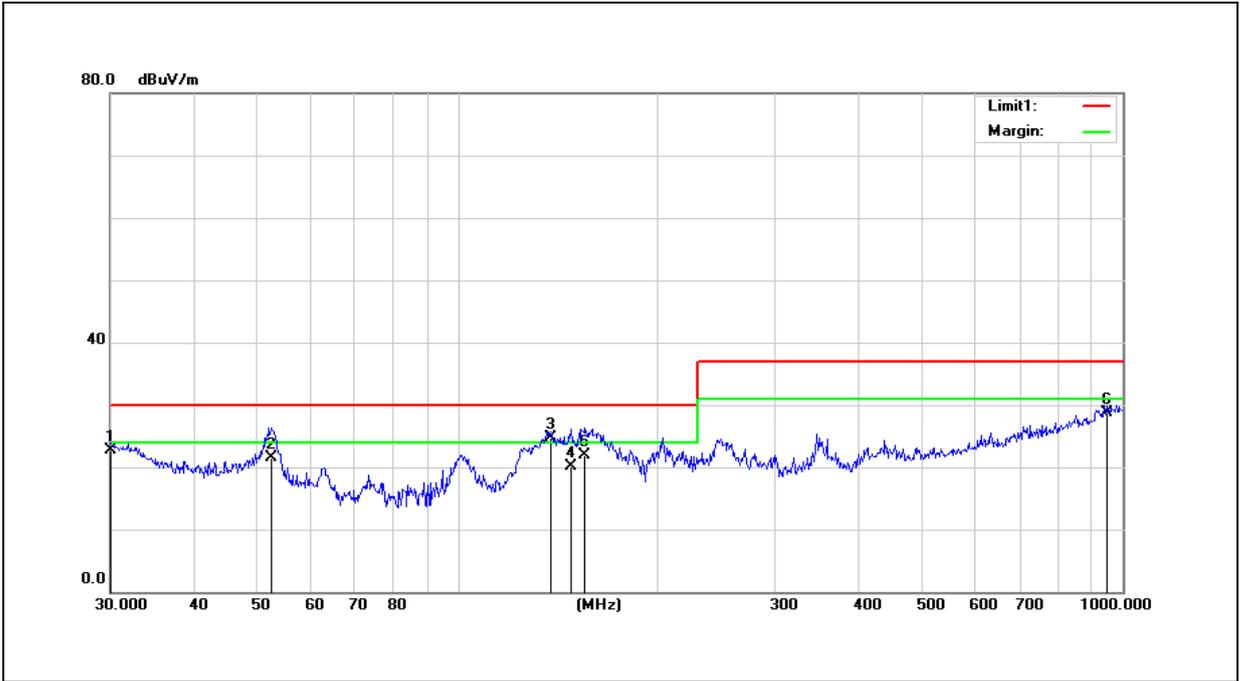


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	52.3912	33.26	-15.26	18.00	30.00	-12.00	400	278	QP
2	124.1330	37.41	-17.91	19.50	30.00	-10.50	300	276	QP
3	154.2786	35.75	-15.55	20.20	30.00	-9.80	400	356	QP
4	183.2005	37.73	-17.63	20.10	30.00	-9.90	400	259	QP
5	480.5276	35.01	-10.41	24.60	37.00	-12.40	200	36	QP
6	935.5463	31.08	-2.98	28.10	37.00	-8.90	275	360	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

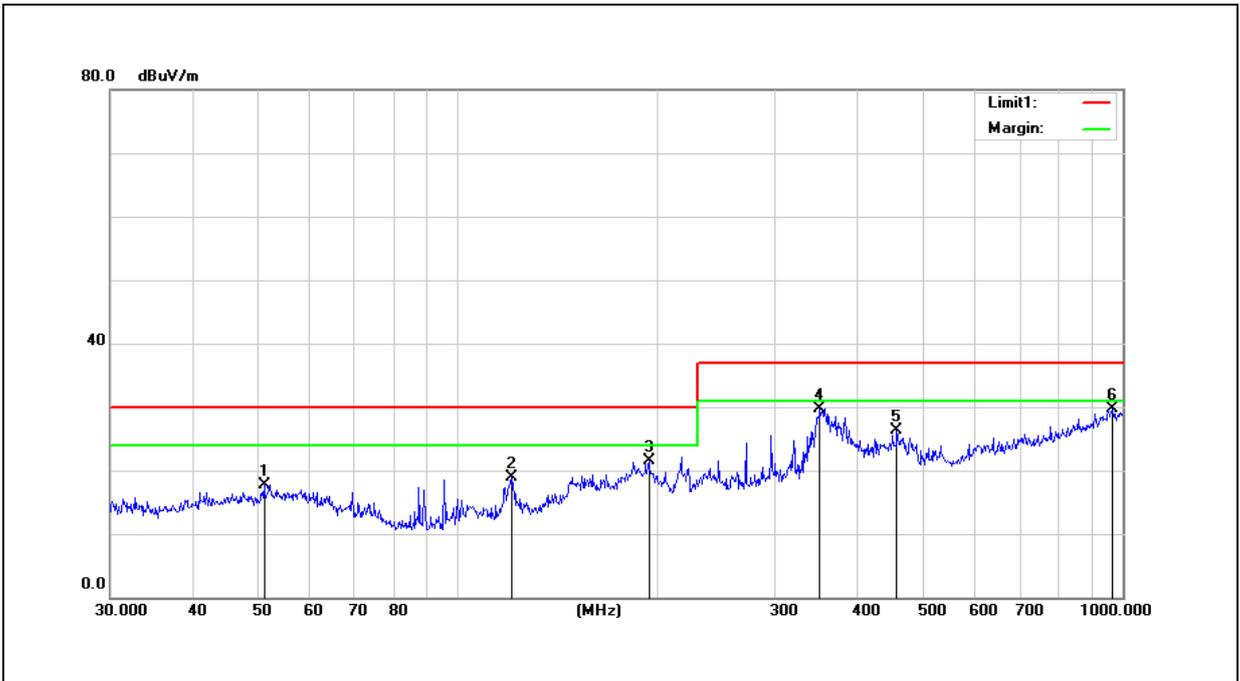
Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	40.51	-17.71	22.80	30.00	-7.20	100	55	QP
2	52.3912	37.02	-15.52	21.50	30.00	-8.50	100	328	QP
3	137.9028	40.24	-15.44	24.80	30.00	-5.20	199	280	QP
4	147.9214	34.65	-14.55	20.10	30.00	-9.90	100	179	QP
5	155.3644	36.46	-14.46	22.00	30.00	-8.00	100	165	QP
6	945.4400	28.30	0.50	28.80	37.00	-8.20	393	0	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).
 2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	51.1210	33.01	-15.21	17.80	30.00	-12.20	300	310	QP
2	120.2766	37.32	-18.42	18.90	30.00	-11.10	400	314	QP
3	193.7728	40.08	-18.58	21.50	30.00	-8.50	300	68	QP
4	350.4768	43.43	-13.63	29.80	37.00	-7.20	200	206	QP
5	457.5073	37.01	-10.71	26.30	37.00	-10.70	200	28	QP
6	965.5421	32.15	-2.45	29.70	37.00	-7.30	100	45	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

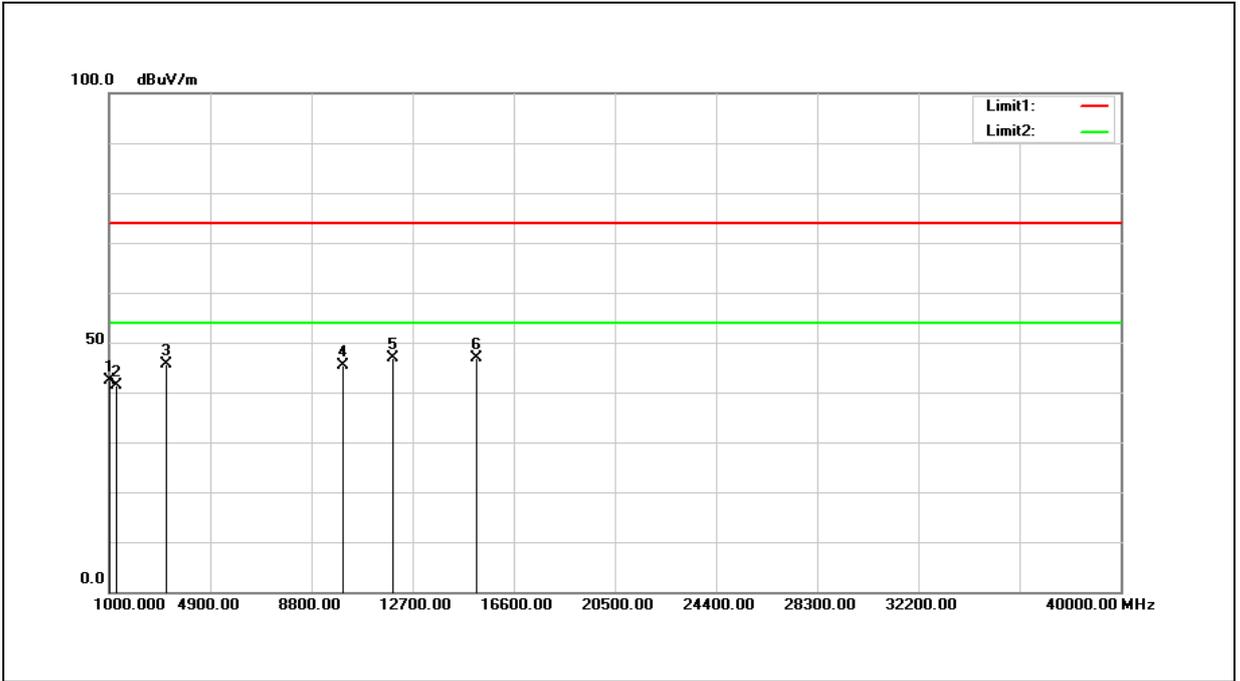
Test Standard:	FCC Part 15B (limit use CISPR 22)	Test Distance:	10 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	30 MHz~1 GHz	Ant.Polar.:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	41.11	-17.71	23.40	30.00	-6.60	100	20	QP
2	52.2080	40.86	-15.56	25.30	30.00	-4.70	100	360	QP
3	158.6677	40.23	-14.33	25.90	30.00	-4.10	100	163	QP
4	216.0240	42.60	-17.10	25.50	30.00	-4.50	100	145	QP
5	341.9786	38.10	-11.50	26.60	37.00	-10.40	100	360	QP
6	938.8326	30.87	0.33	31.20	37.00	-5.80	299	337	QP

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).
2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal

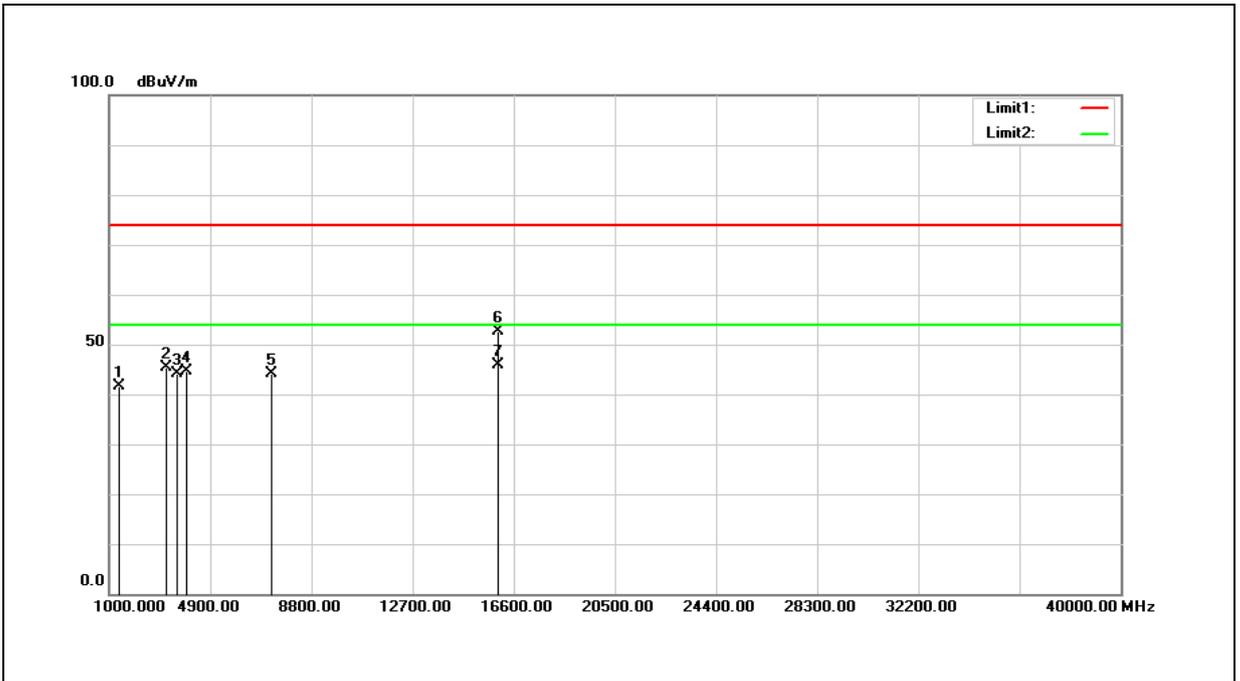


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1017.000	63.37	-21.00	42.37	74.00	-31.63	100	132	peak
2	1238.000	61.53	-20.11	41.42	74.00	-32.58	100	334	peak
3	3193.000	58.09	-12.35	45.74	74.00	-28.26	200	203	peak
4	9976.000	41.99	3.33	45.32	74.00	-28.68	200	150	peak
5	11914.000	41.19	5.75	46.94	74.00	-27.06	200	273	peak
6	15127.000	36.19	10.70	46.89	74.00	-27.11	200	75	peak

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 2	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Vertical

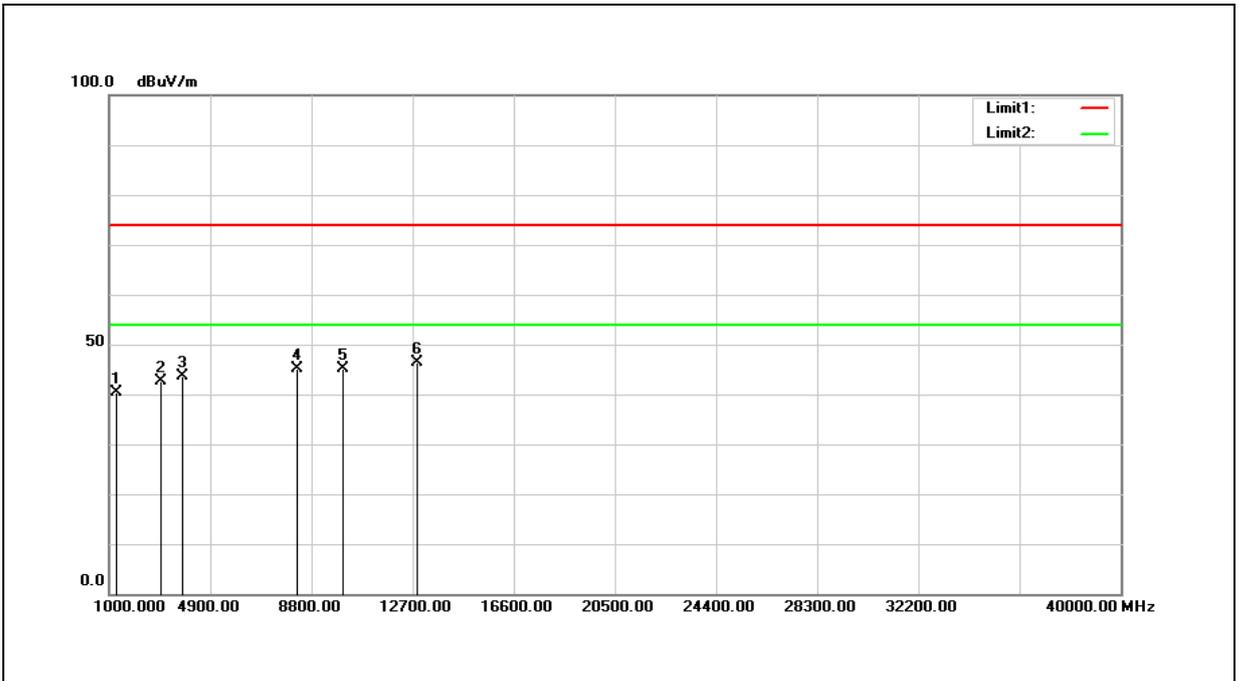


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1357.000	60.88	-19.34	41.54	74.00	-32.46	100	24	peak
2	3193.000	57.79	-12.35	45.44	74.00	-28.56	100	285	peak
3	3601.000	56.13	-12.00	44.13	74.00	-29.87	100	354	peak
4	3992.000	56.28	-11.66	44.62	74.00	-29.38	100	359	peak
5	7205.000	48.21	-4.10	44.11	74.00	-29.89	101	0	peak
6	15994.000	41.80	10.88	52.68	74.00	-21.32	100	313	peak
7	15994.000	34.96	10.88	45.84	54.00	-8.16	100	313	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal

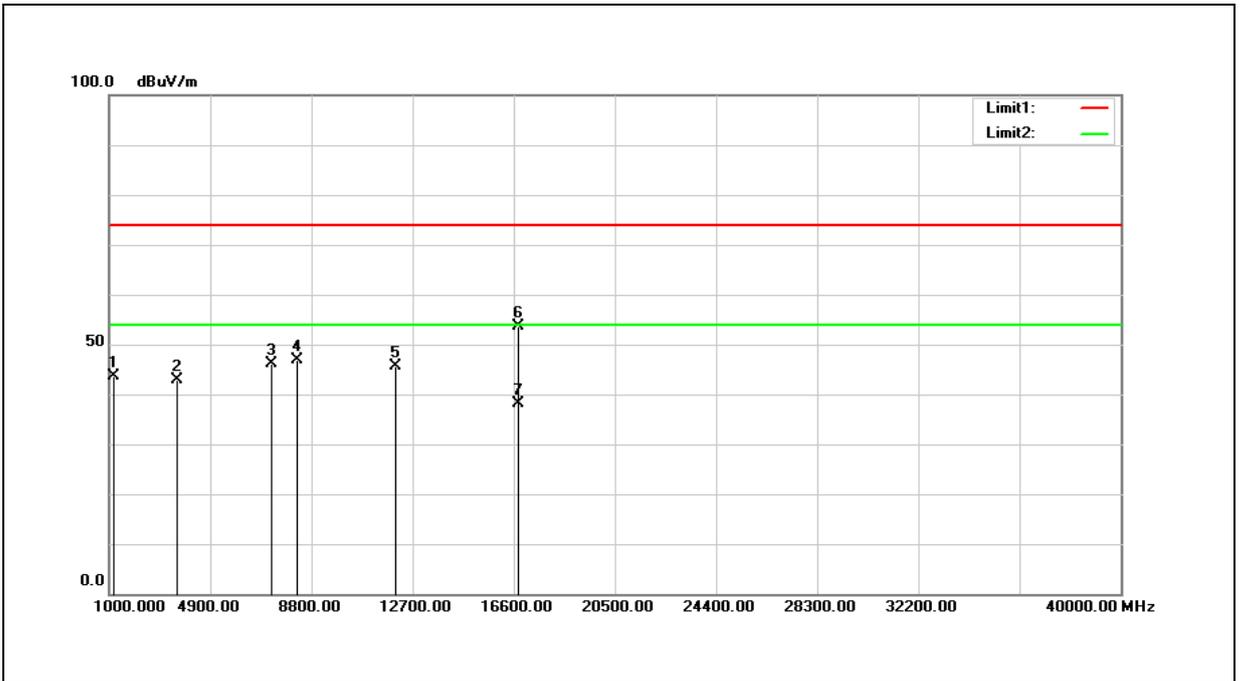


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1238.000	60.37	-20.11	40.26	74.00	-33.74	100	17	peak
2	2989.000	54.76	-12.15	42.61	74.00	-31.39	200	70	peak
3	3805.000	55.69	-12.05	43.64	74.00	-30.36	100	342	peak
4	8242.000	46.50	-1.40	45.10	74.00	-28.90	100	359	peak
5	9976.000	41.86	3.33	45.19	74.00	-28.81	200	187	peak
6	12849.000	39.40	6.91	46.31	74.00	-27.69	200	23	peak

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 3	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Vertical

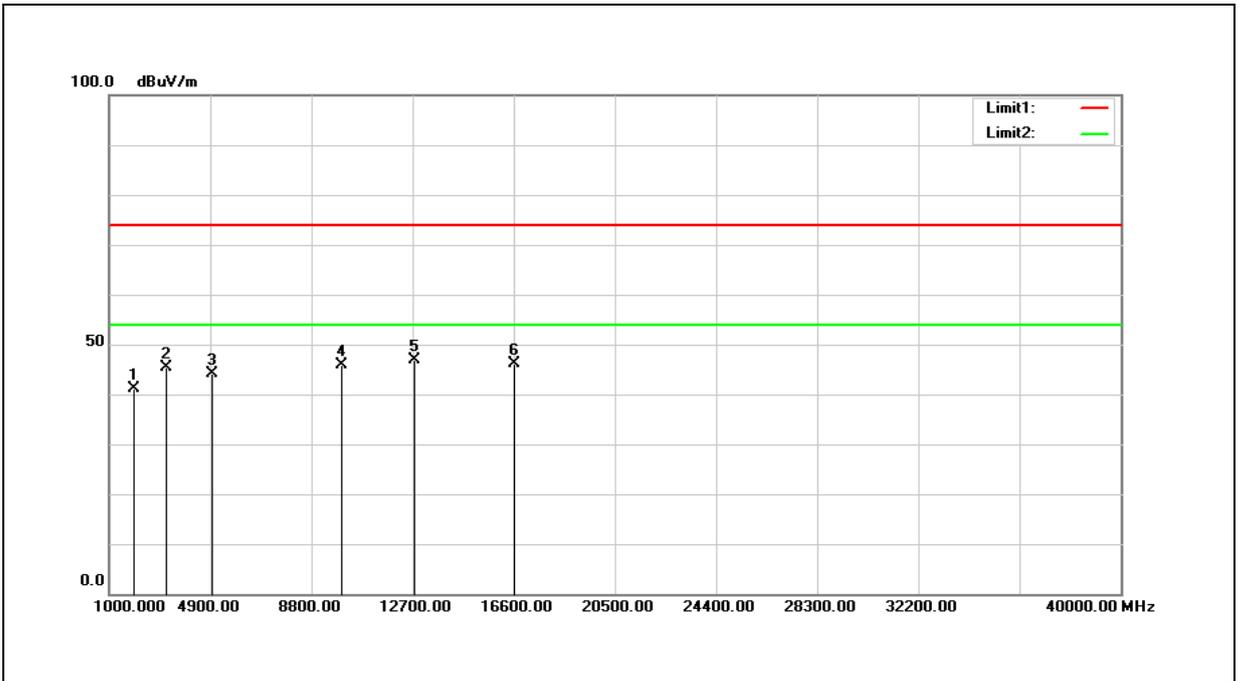


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1187.000	64.23	-20.65	43.58	74.00	-30.42	155	0	peak
2	3601.000	55.00	-12.00	43.00	74.00	-31.00	100	353	peak
3	7205.000	50.33	-4.10	46.23	74.00	-27.77	144	0	peak
4	8242.000	48.20	-1.40	46.80	74.00	-27.20	100	0	peak
5	11999.000	39.61	6.07	45.68	74.00	-28.32	100	1	peak
6	16793.000	41.78	11.97	53.75	74.00	-20.25	144	0	peak
7	16793.000	26.25	11.97	38.22	54.00	-15.78	144	0	AVG

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Horizontal

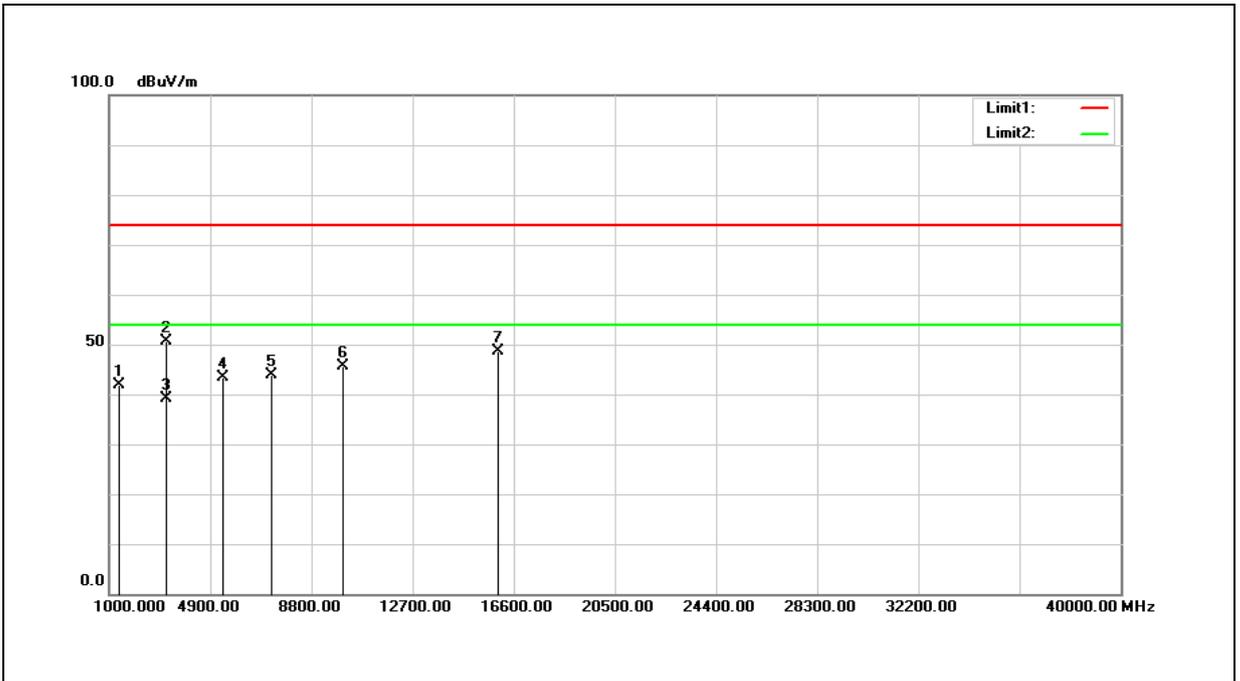


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1952.000	57.52	-16.36	41.16	74.00	-32.84	100	357	peak
2	3193.000	57.66	-12.35	45.31	74.00	-28.69	100	196	peak
3	4961.000	53.71	-9.62	44.09	74.00	-29.91	100	63	peak
4	9959.000	42.64	3.27	45.91	74.00	-28.09	199	360	peak
5	12764.000	40.10	6.81	46.91	74.00	-27.09	200	249	peak
6	16589.000	34.34	11.73	46.07	74.00	-27.93	200	232	peak

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3 m
Test Mode:	Mode 4	Test Power:	AC 120 V / 60 Hz
Measurement Range:	1 GHz~40 GHz	Ant.Polar.:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1357.000	61.17	-19.34	41.83	74.00	-32.17	100	23	peak
2	3193.000	63.01	-12.35	50.66	74.00	-23.34	107	360	peak
3	3193.000	51.46	-12.35	39.11	54.00	-14.89	107	360	AVG
4	5403.000	51.37	-7.93	43.44	74.00	-30.56	100	18	peak
5	7205.000	47.91	-4.10	43.81	74.00	-30.19	100	359	peak
6	9976.000	42.21	3.33	45.54	74.00	-28.46	200	161	peak
7	15994.000	37.79	10.88	48.67	74.00	-25.33	100	360	peak

Note:1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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