



RF TEST REPORT

Report No.: 20240217G02609X-W2

Main Product: TVS Pro4 Animal Pathogen Analyzers

Main Model No.: EQ-PS400

Series Model No.: EQ-MS400, EQ-FS400, YQ-MS400, YQ-PS400, YQ-FS400

FCC ID: 2BF4PS400

Applicant: Changzhou Trendi Medical Technology Co., Ltd

No.403, Legend Holdings Lianhong New Material Innovation

Address: R&D Building, Changzhou Science and Education City, Jiangsu Province, China

Dates of Testing: 02/23/2024 - 03/26/2024

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

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Test Report

Main Product.....: TVS Pro4 Animal Pathogen Analyzers
Main Trade Name.....: **Trending-VetAX**
Applicant.....: Changzhou Trendi Medical Technology Co., Ltd
Applicant Address.....: No.403, Legend Holdings Lianhong New Material
Innovation R&D Building, Changzhou Science and
Education City, Jiangsu Province, China
Manufacturer.....: Changzhou Trendi Medical Technology Co., Ltd
Manufacturer Address.....: No.403, Legend Holdings Lianhong New Material
Innovation R&D Building, Changzhou Science and
Education City, Jiangsu Province, China
Test Standards.....: 47 CFR Part 15 Subpart C 15.247
ANSI C63.10-2013
Test Result.....: Pass

Tested by:  2024.03.26

Chuiwang Zhang, Test Engineer

Reviewed by.....:  2024.03.26

Chris You, Senior Engineer

Approved by.....:  2024.03.26

Yang Fan, Manager



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Change History		
Issue	Date	Reason for change
1.0	2024.03.26	First edition

1. General Information

1.1. EUT Description

EUT supports Radios application	Bluetooth LE V5.0
Frequency Range	2402MHz~2480MHz
Channel Number	40
Bit Rate of Transmitter	1/2Mbps
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	3.26dBi
Power supply	Rechargeable Li-ion Battery DC11.1V/6000mAh

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

Note 2: Model No.: EQ-PS400 (Main Model), EQ-MS400, EQ-FS400, YQ-MS400, YQ-PS400, YQ-FS400 has no difference in structure, size, appearance, circuit, etc., and it does not affect the electromagnetic compatibility characteristics and radio frequency characteristics of the product. The difference is reflected in the different regions and industries targeted.

Note 3: Correspondence between product name, model and brand:

Product Name	Model No.	Trade Name
TVS Pro4 Animal Pathogen Analyzers	EQ-PS400	Trending-VetAX
TFS Pro4 Foodborne Pathogen Analyzers	EQ-FS400	Trending-FoodAX
TMS Pro4 POCT Molecular Diagnosis Analyzers	EQ-MS400	Trending-MedAX
Veterinary Diagnostic System Pro4S	YQ-PS400	TRESDI
Microbial Diagnostic System Pro4S	YQ-FS400	TRESDI
Clinical Molecular Diagnostic System Pro4S	YQ-MS400	TRESDI

1.2. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC certification standards:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C	Radio Frequency Devices
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 558074 D01 15.247 Meas Guidance v05r02	Cuidance for Compliance Measurement on Digital Transmission Systems, Frequency Hopping Spread Spectrum Systems, and Hybrid System Devices Operating under Section 15.247 of the FCC Rules

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	Description	Result
1	15.203 15.247(c)	Antenna Requirement	PASS
2	15.247(b)(3)	Peak Conducted Output Power	PASS ^{Note 3}
3	15.247(a)(2)	6dB and 99% Bandwidth	PASS ^{Note 3}
4	15.247(d)	Conducted Band Edges and Spurious Emission	PASS ^{Note 3}
5	15.247(e)	Power spectral density (PSD)	PASS ^{Note 3}
6	15.207	AC Power Line Conducted Emission	PASS
7	15.209 15.205 15.247(d)	Radiated Band Edges and Spurious Emission	PASS

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB 558074 D01 15.247 Meas Guidance v05r02.

Note 3: Please refer to FCC ID: 2AC7Z-ESPC3WROOM, Report number is R2106A0492-R1.

40 channels are provided for Bluetooth LE.

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note: Channel 0, 19 & 39 selected for GFSK.

Test Items	Modulation Type	Data Rate	Channel
Peak Conducted Output Power Power Spectral Density 6dB and 99% Bandwidth Conducted Spurious Emission Radiated Spurious Emission	GFSK	1/2Mbps	0/19/39
Band Edge	GFSK	1/2Mbps	0/39

1.3. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Laptop	HP	TPN-Q221	HP	5CD14347QB	FCC DOC

1.4. EUT Operation Test Setup

For RF test items, an engineering test program was provided and enable to make EUT transmitting.

1.5. Test environment and mode

During the measurement, the environmental conditions were within the listed ranges:

Operating Environment	
Temperature	15°C - 35°C
Humidity	30% -60%
Atmospheric Pressure	86kPa-106kPa
Test mode:	
Continuously transmitting mode	Keep the EUT in continuous transmitting with modulation



1.6. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing 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. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

2. Test Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Category: PCB Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Operating frequency range	Ant. Type	Ant. Gain
1	TVS Pro4 Animal Pathogen Analyzers	2402-2480MHz	PCB	3.26dBi

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Radiated Band Edge and Spurious Emission

2.2.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level. If the transmitter uses an RMS average conducted power limit, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

§15.209(a) Radiated emission limits:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Restricted bands of operation refer to §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41	/	/	/

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

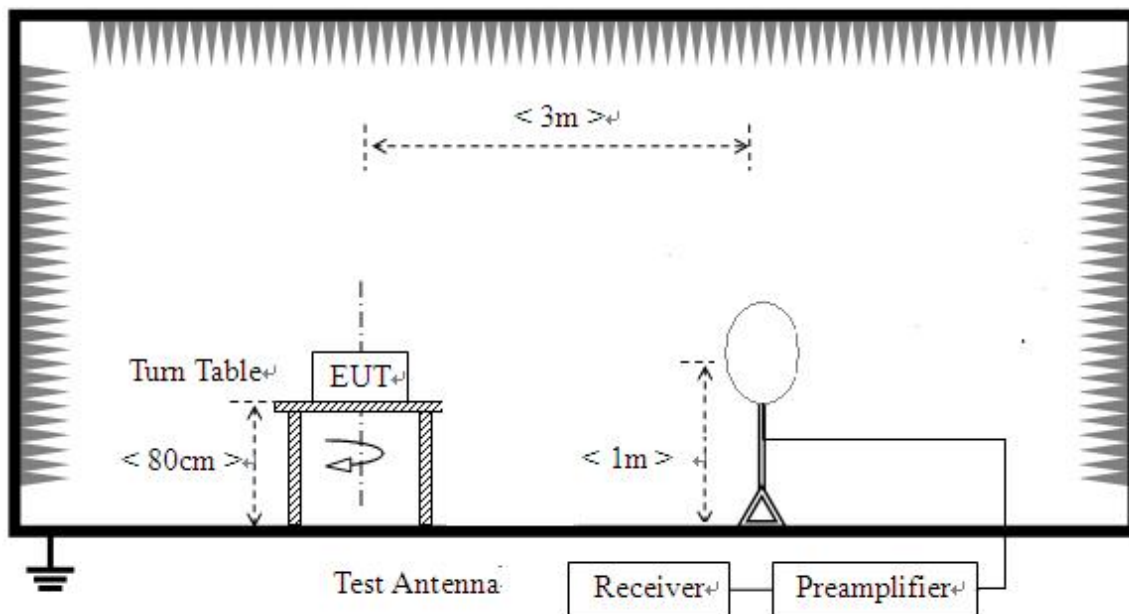
²Above 38.6.

2.2.2. Measuring Instruments

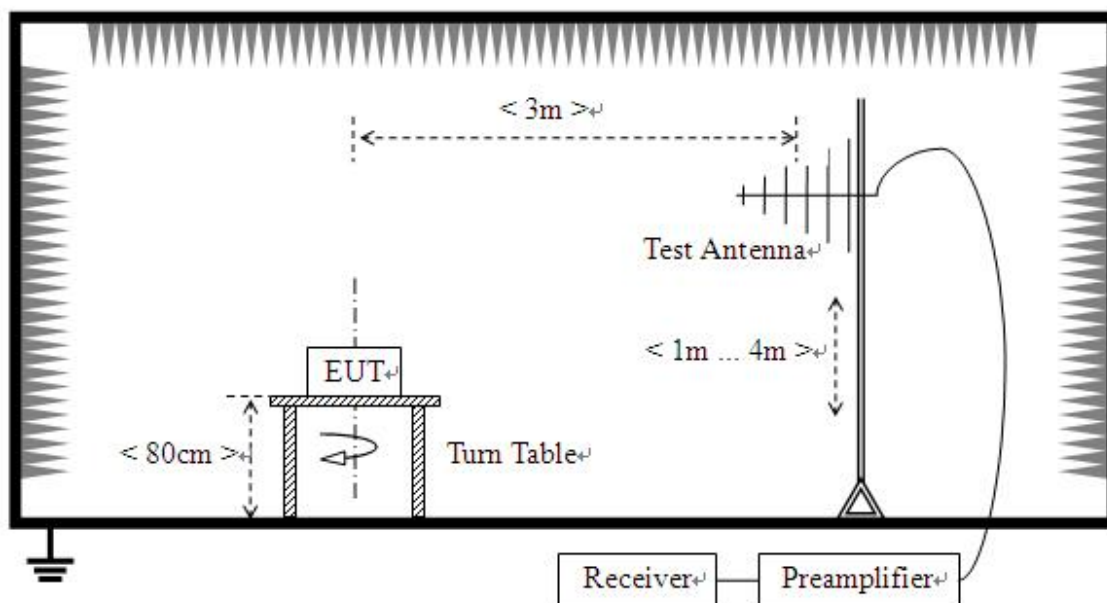
The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup

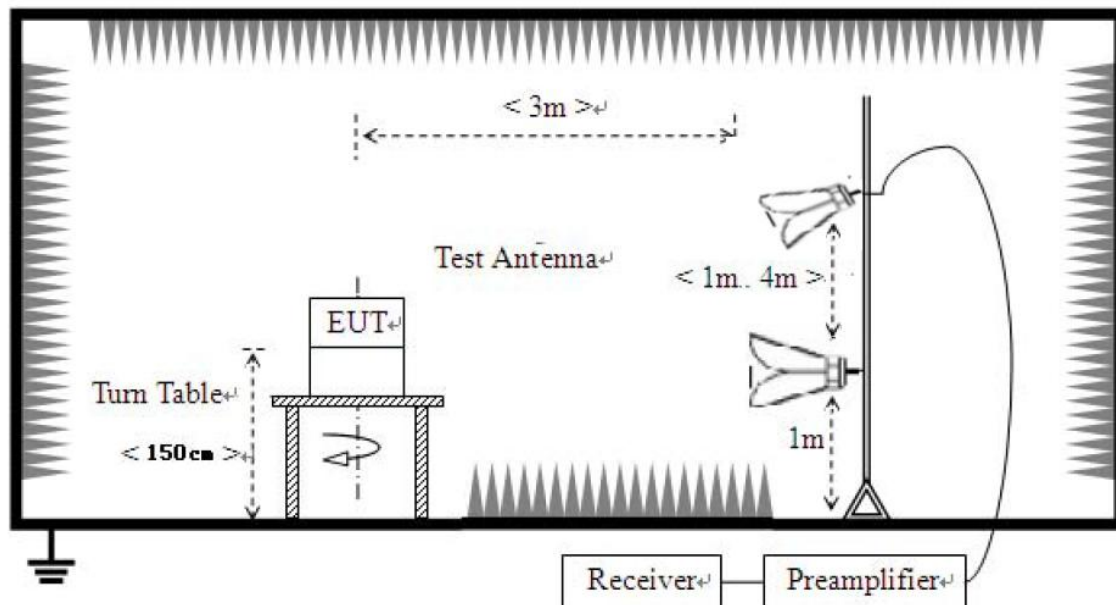
For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.2.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8m for below 1GHz and 1.5m for above 1GHz above the ground at a 3 meters semi-anechoic chamber.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then

reported in a data sheet.

7. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

2.2.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 kHz to 30MHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

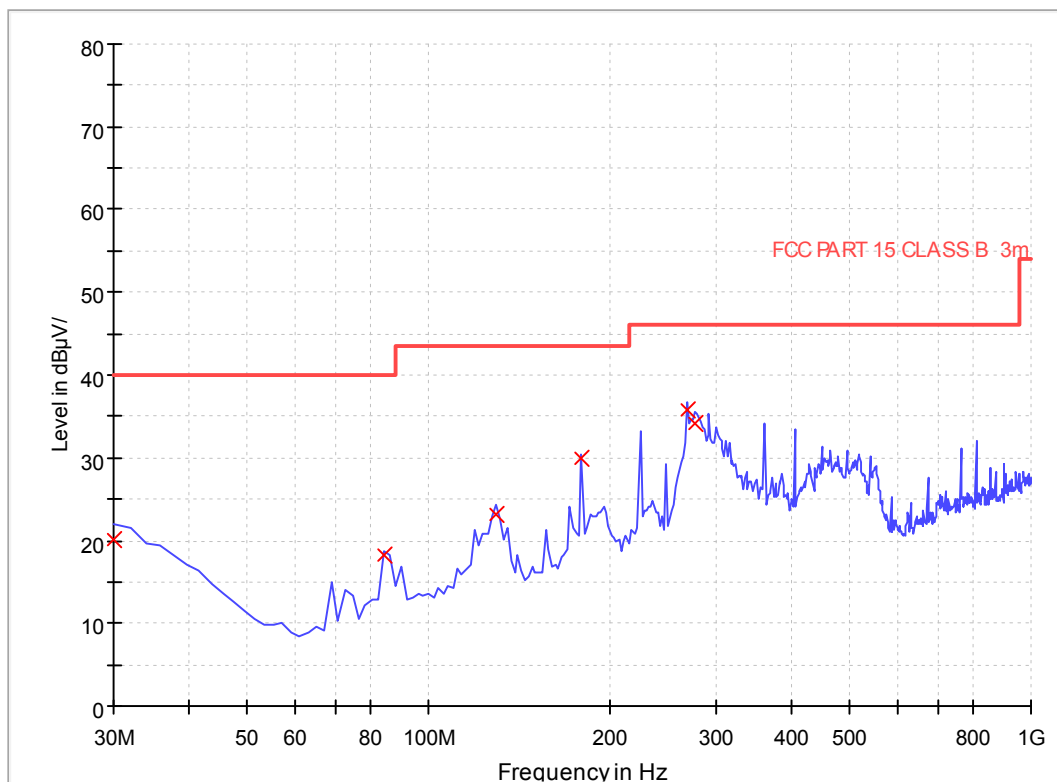
For 30MHz to 1GHz, All of the EUT Configure mode were tested and found 2Mbps_2480MHz channel is the worst mode, the worst case is recorded in this report.

For 1GHz to 25GHz, Only worst-case(BLE_2Mbps) data is reported.

For 30MHz to 1000MHz

Test site:	3M anechoic chamber	Environment:	Temp: 23℃; Humi:48%;101kPa
Operator:	Deng ShanFei	Test Date:	2024.03.21
Test Mode:	BLE - TX	Test Result:	Pass

EMI Sweep-3M(30-1G)



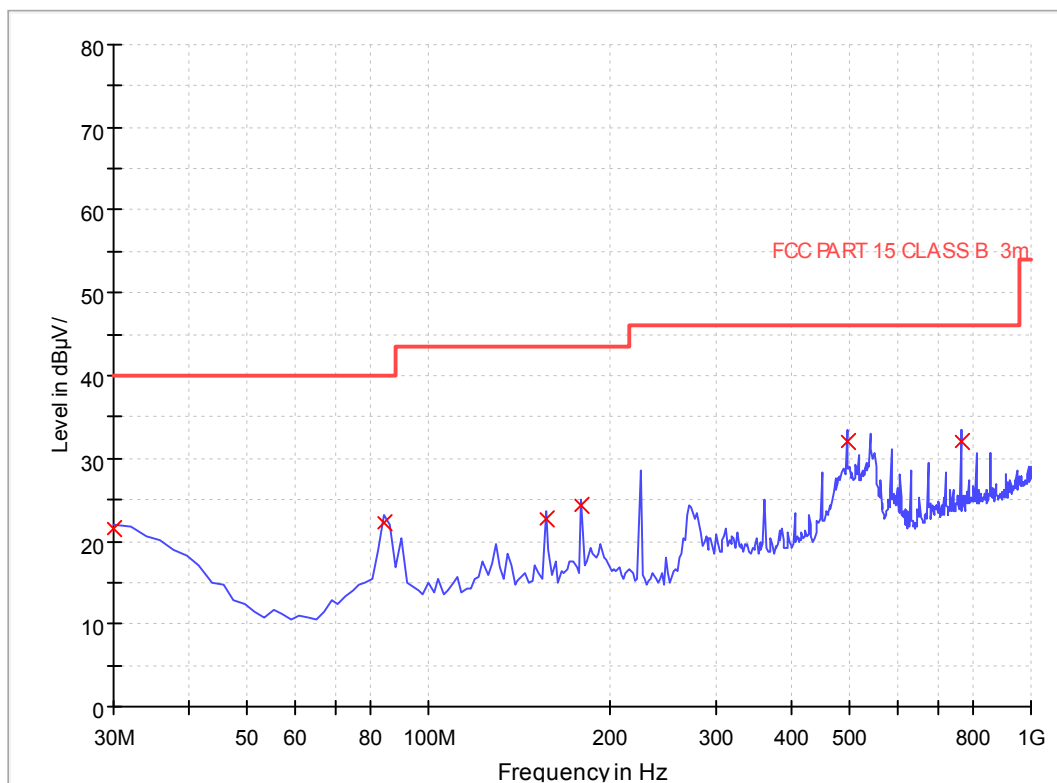
Frequency (MHz)	QuasiPeak (dB V/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK	Limit - QPK
30.000000	20.15	120.000	100.0	H	21.1	19.85	40.0
84.440000	18.22	120.000	100.0	H	10.4	21.78	40.0
129.120000	23.27	120.000	100.0	H	13.6	20.23	43.5
179.680000	29.90	120.000	100.0	H	11.8	13.60	43.5
269.080000	35.77	120.000	100.0	H	14.9	10.23	46.0
276.880000	34.04	120.000	100.0	H	15.3	11.96	46.0

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Only the antenna height (from 1m to 4m) at maximum reading are recorded.

Test site:	3M anechoic chamber	Environment:	Temp: 23°C; Humi:48%;101kPa
Operator:	Deng ShanFei	Test Date:	2024.03.21
Test Mode:	BLE - TX	Test Result:	Pass

EMI Sweep-3M(30-1G)



Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK	Limit - QPK
30.000000	21.62	120.000	100.0	V	21.1	18.38	40.0
84.440000	22.32	120.000	100.0	V	10.4	17.68	40.0
156.360000	22.66	120.000	100.0	V	13.5	20.84	43.5
179.680000	24.28	120.000	100.0	V	11.8	19.22	43.5
494.600000	32.16	120.000	100.0	V	20.1	13.84	46.0
766.720000	32.00	120.000	100.0	V	23.1	14.00	46.0

Remark:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
- Margin value = Limit value - Emission Level.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Only the antenna height (from 1m to 4m) at maximum reading are recorded.

For 1GHz to 25GHz

GFSK_2402MHz - 2Mbps									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	52.34	74.00	-21.66	1.50	200	55.43	-3.09	Horizontal	Peak
2390.00	43.19	54.00	-10.81	1.50	200	46.28	-3.09	Horizontal	Average
4804.00	46.80	74.00	-27.20	1.50	200	45.54	1.26	Horizontal	Peak
4804.00	37.87	54.00	-16.13	1.50	200	36.61	1.26	Horizontal	Average
7206.00	49.37	74.00	-24.63	1.50	200	43.20	6.17	Horizontal	Peak
7206.00	40.63	54.00	-13.37	1.50	200	34.46	6.17	Horizontal	Average
2390.00	51.99	74.00	-22.01	1.50	180	55.08	-3.09	Vertical	Peak
2390.00	42.80	54.00	-11.20	1.50	180	45.89	-3.09	Vertical	Average
4804.00	46.99	74.00	-27.01	1.50	180	45.73	1.26	Vertical	Peak
4804.00	37.84	54.00	-16.16	1.50	180	36.58	1.26	Vertical	Average
7206.00	50.28	74.00	-23.72	1.50	180	44.11	6.17	Vertical	Peak
7206.00	40.53	54.00	-13.47	1.50	180	34.36	6.17	Vertical	Average

GFSK_2440MHz - 2Mbps									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4880.00	46.98	74.00	-27.02	1.50	200	46.05	0.93	Horizontal	Peak
4880.00	38.14	54.00	-15.86	1.50	200	37.21	0.93	Horizontal	Average
7320.00	49.61	74.00	-24.39	1.50	200	44.02	5.59	Horizontal	Peak
7320.00	40.79	54.00	-13.21	1.50	200	35.20	5.59	Horizontal	Average
4880.00	46.89	74.00	-27.11	1.50	180	45.96	0.93	Vertical	Peak
4880.00	37.74	54.00	-16.26	1.50	180	36.81	0.93	Vertical	Average
7320.00	50.63	74.00	-23.37	1.50	180	45.04	5.59	Vertical	Peak
7320.00	40.27	54.00	-13.73	1.50	180	34.68	5.59	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.

GFSK_2480MHz - 2Mbps									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	54.52	74.00	-19.48	1.50	200	59.27	-4.75	Horizontal	Peak
2483.50	43.74	54.00	-10.26	1.50	200	48.49	-4.75	Horizontal	Average
4960.00	44.89	74.00	-29.11	1.50	200	44.65	0.24	Horizontal	Peak
4960.00	35.86	54.00	-18.14	1.50	200	35.62	0.24	Horizontal	Average
7440.00	49.50	74.00	-24.50	1.50	200	43.68	5.82	Horizontal	Peak
7440.00	39.92	54.00	-14.08	1.50	200	34.10	5.82	Horizontal	Average
2483.50	52.47	74.00	-21.53	1.50	180	57.22	-4.75	Vertical	Peak
2483.50	43.57	54.00	-10.43	1.50	180	48.32	-4.75	Vertical	Average
4960.00	45.34	74.00	-28.66	1.50	180	45.10	0.24	Vertical	Peak
4960.00	35.86	54.00	-18.14	1.50	180	35.62	0.24	Vertical	Average
7440.00	50.10	74.00	-23.90	1.50	180	44.28	5.82	Vertical	Peak
7440.00	39.77	54.00	-14.23	1.50	180	33.95	5.82	Vertical	Average
<i>Remark:</i> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									

2.3. AC Power Line Conducted Emission

2.3.1. Limit of AC Power Line Conducted Emission

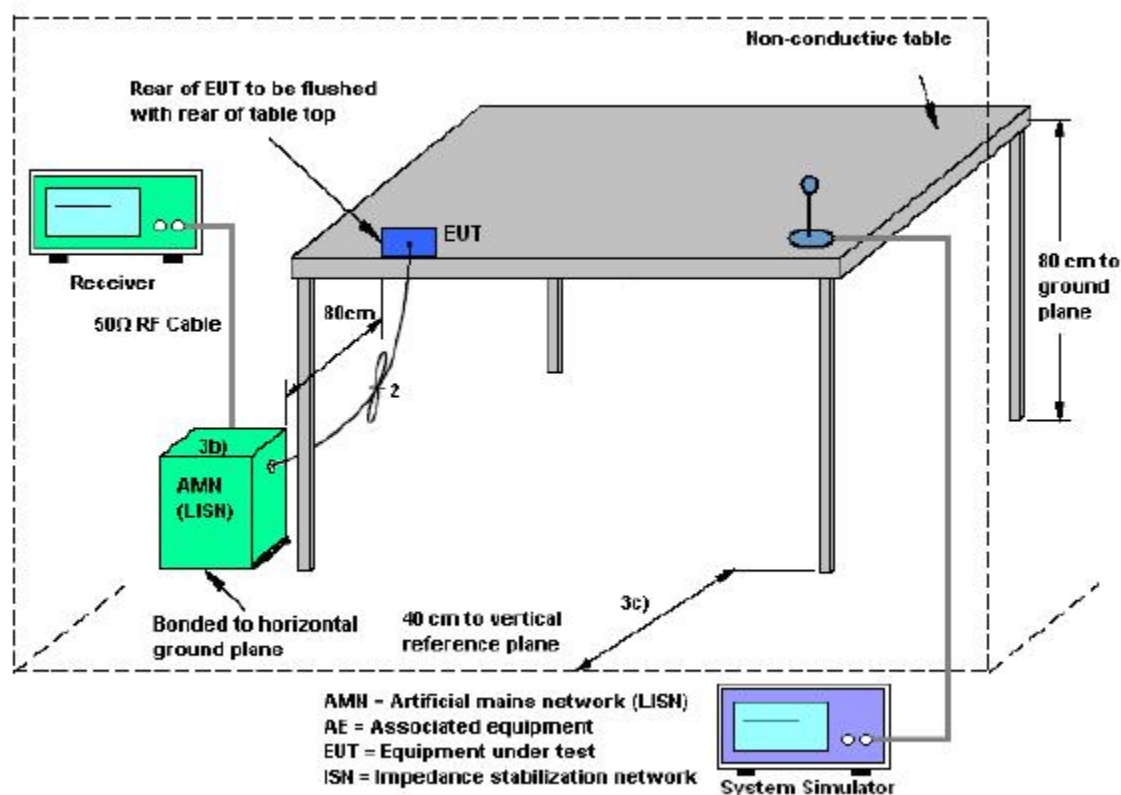
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

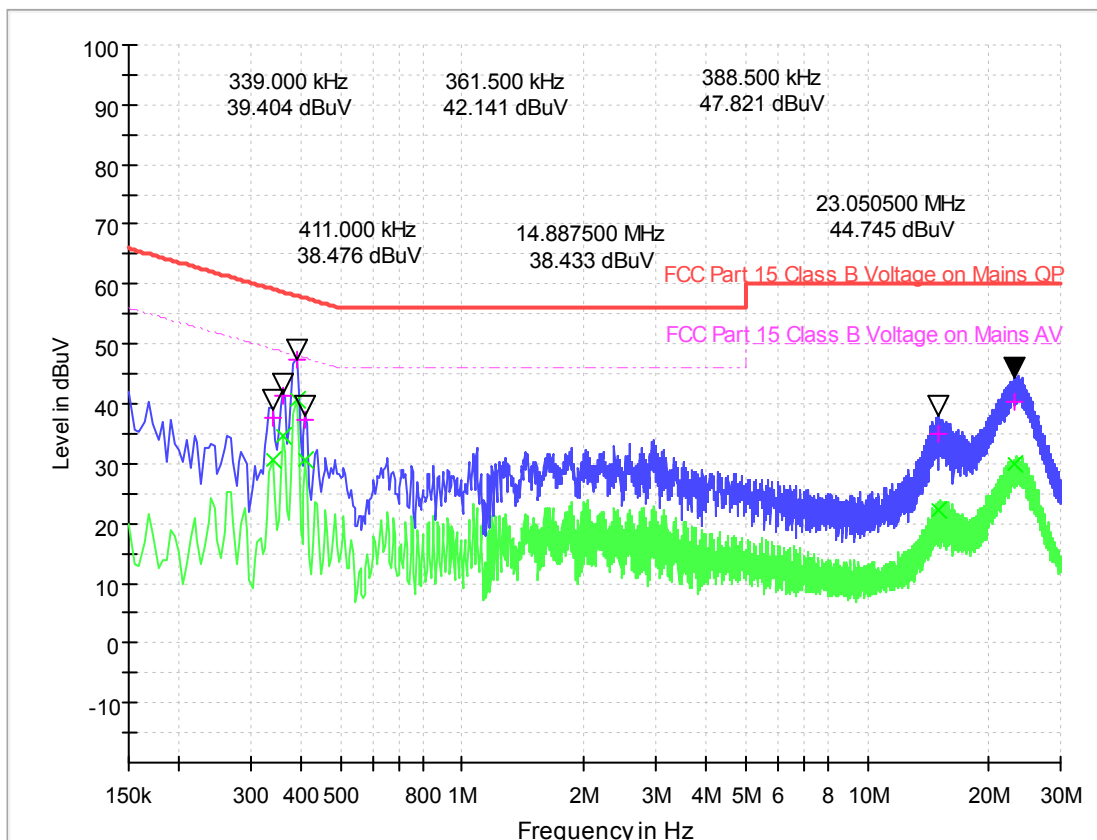
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.3.5. Test Results of Conducted Emission

The EUT configuration of the emission tests is Bluetooth LE Link + Charging from Adapter.

All of the EUT Configure mode were tested and found 2Mbps_2480MHz channel is the worst mode, the worst case is recorded in this report.

Test site:	Shield ROOM 2	Environment:	Temp: 23°C; Humi:53%;101kPa
Operator:	ZHANG QIANYU	Test Date:	2024.03.20
Test Mode:	BLE - TX	Test Part:	L Line



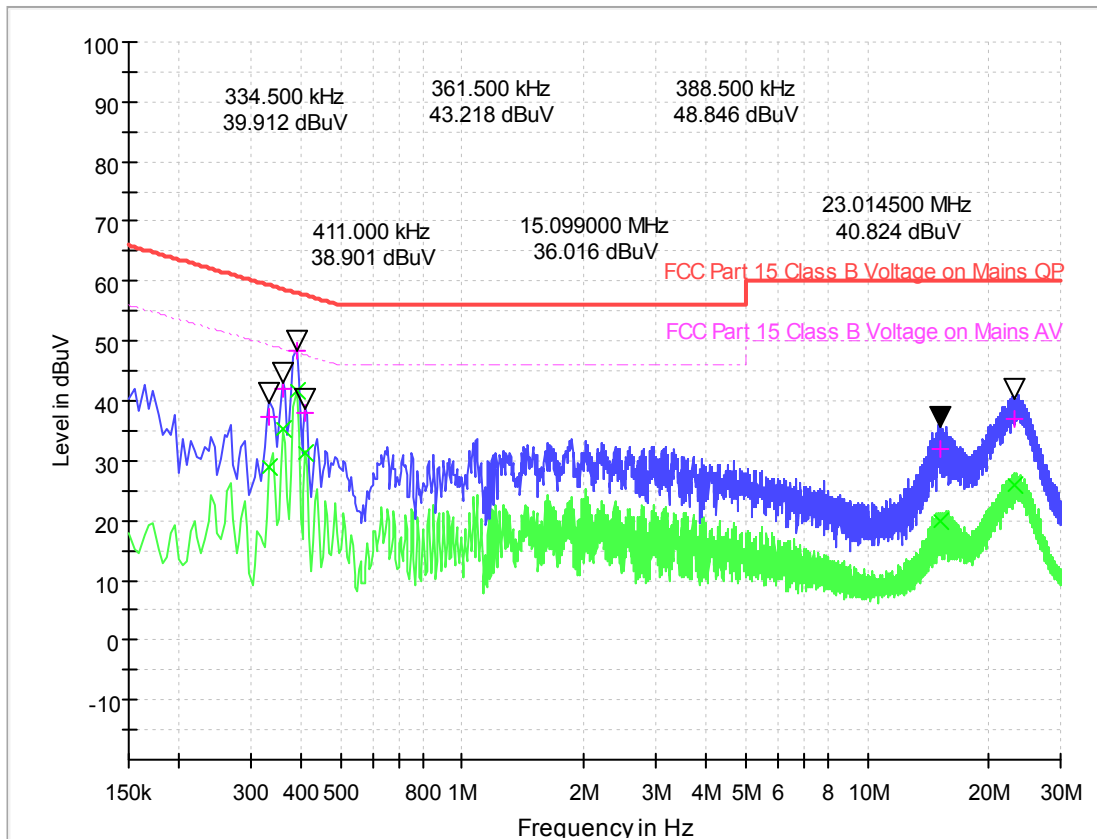
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.339000	37.66	30.59	10.8	21.57	59.2	18.64	49.2
0.361500	41.42	34.64	10.8	17.27	58.7	14.05	48.7
0.388500	47.35	40.68	10.8	10.75	58.1	7.42	48.1
0.411000	37.48	30.45	10.8	20.15	57.6	17.18	47.6
14.887500	35.10	22.26	11.0	24.90	60.0	27.74	50.0
23.050500	40.41	30.01	11.5	19.59	60.0	19.99	50.0

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.



Test site:	Shield ROOM 2	Environment:	Temp: 23°C; Humi:53%;101kPa
Operator:	ZHANG QIANYU	Test Date:	2024.03.20
Test Mode:	BLE - TX	Test Part:	N Line



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.334500	37.40	28.92	10.9	21.94	59.3	20.42	49.3
0.361500	42.04	35.18	10.9	16.65	58.7	13.51	48.7
0.388500	48.33	41.74	10.9	9.77	58.1	6.36	48.1
0.411000	38.14	31.25	10.9	19.49	57.6	16.38	47.6
15.099000	31.86	19.91	11.0	28.14	60.0	30.09	50.0
23.014500	36.82	25.91	11.5	23.18	60.0	24.09	50.0

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2023.08.01	2026.07.31
2	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2023.06.08	2024.06.07
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2023.06.08	2024.06.07
5	EMI Horn Ant. (1~18G)	ETC	MCTD-1209	A150402241	2023.05.16	2026.05.15
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2023.06.01	2024.05.31
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2023.10.20	2024.10.19
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2023.10.20	2024.10.19
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2024.01.18	2025.01.17
10	Test Receiver	R&S	ESIB7	A0501375	2024.02.28	2025.02.27
11	Broadband Ant.	ETC	MCTD 2786	A150402240	2023.05.22	2026.05.21
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2024.02.27	2027.02.26
13	Temperature chamber	ESPEC	SU-642	A150802409	2024.02.22	2025.02.21
14	Test Receiver	KEYSIGHT	N9038A	A141202036	2023.06.12	2024.06.11
15	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2023.06.08	2024.06.07

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
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Uncertainty of Occupied Bandwidth Measurement

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2%
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****END OF REPORT****