



Report No.: 86260714701

Date: August 24, 2026

Page 1 of 39

RF TEST REPORT

Applicant : Shanghai Hertzino Technology Co., Ltd.

Address: 501, Greenland Mtown, Huanke RD 515, Pudong New Area District, Shanghai

Manufacturer: Xi'an Lianfeng Xunsheng Information Technology Co., Ltd.

Address: 17th Floor, Building B, Xigong University Innovation Building, No. 127 Youyi West Road, Beilin District, Xi'an City, Shaanxi Province

EUT Name: Acoustic Camera

Trade mark: Hertzino

Model: HA3LX, HA3, HA3X, HA3T, HA3TX, HA3A, HA3PD, HA4

FCC ID: 2BXXC-HA3LX

Rating: DC 5V
Battery 7.2V

Sample Received Date: Jul. 14, 2026

Test Date: Jul. 14, 2026~Aug. 24, 2026

Applicable Standards: FCC 47, CFR Part 15.247

Test Result Pass

Prepared by: *Jojo Wu*

Jojo Wu/Project Engineer

Approved by: *Bruce Zhang*

Bruce Zhang/Technical Manager

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Revision History

Version	Date of Issue	Description
V00	August 24, 2026	Original Version

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1. TEST SUMMARY

FCC Part 15C	Description of Test	Result
15.247(b)(4)&15.203	Antenna Requirement	Pass
15.247(b)(3)	Maximum Conducted Output power	Pass
15.247(a)(2)	6 dB Bandwidth	Pass
15.247(e)	Power Spectral Density	Pass
15.247(d)	Out of Band Conducted Emission	Pass
15.247(d)&15.205&15.209	Band edge	Pass
15.247(d)&15.205&15.209	Spurious Radiated Emission	Pass
15.207	Conducted Emission on AC Mains	Pass

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2. TEST SITE

2.1. Test Facility

HD Testing Technology (GuangDong) Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

FCC Designation Number:CN1419

FCC Test Firm Registration Number:361541

ISED Company Number:34332

ISED CAB identifier Number:CN0189

2.2. Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission(150KHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emission(9KHz-30MHz)	$\pm 3.5\text{dB}$
Radiated Emission(30MHz-1GHz)	$\pm 4.7\text{dB}$
Radiated Emission (1GHz-6GHz)	$\pm 5.1\text{dB}$
Radiated Emission (6GHz-18GHz)	$\pm 5.1\text{dB}$
Radiated Emission (18Hz-40GHz)	$\pm 5.3\text{dB}$
Occupied bandwidth	$\pm 1.9\%$
Duty cycle	$\pm 0.11\%$
Power Spectral Density	$\pm 0.98\text{ dB}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.3. Test Environment Condition

Ambient Temperature:	24~25°C
Ambient Relative Humidity:	55~60 %

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3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	HDT-EM-003	Mar. 02, 2026	1 Year
Pulse limiter	Rohde&Schwarz	ESH3-Z2	HDT-EM-001	Mar. 02, 2026	1 Year
LISN	Rohde&Schwarz	ENV216	HDT-EM-002	Mar. 02, 2026	1 Year
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	8m*4m*4m	HDT-EM-030	Oct. 12, 2024	5 Year
EMI Test Receiver	Rohde&Schwarz	ESCI7	HDT-EM-005	Mar. 02, 2026	1 Year
Logarithmic Periodic Broadband Antenna	SCHWARZBECK	VULB9168	HDT-EM-009	Mar. 06, 2025	3 Year
Preamplifier	HP	8447F	HDT-EM-010	Mar. 02, 2026	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9120D	HDT-EM-039	Mar. 06, 2025	3 Year
Preamplifier	/	1-18-53G22	HDT-EM-040	Mar. 02, 2026	1 Year
Anechoic Chamber	Taihe Mao Rui Electronic Equipment Co., Ltd.	9m*6m*6m	HDT-EM-030	Oct. 12, 2024	5 Year
Signal Analyzer	Keysight	N9020A	HDT-EM-038	Mar. 02, 2026	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	HDT-EM-069	Mar. 02, 2026	1 Year
18-40GHz Antenna	COM-MW	ZLB7-18-40G-77 7	HDT-EM-076	May 18, 2026	1 Year

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18-40GHz Preamplifier	QUANJUDA	LNA-18004000-50G35	HDT-EM-077	May 16, 2026	1 Year
Loop Antenna	Da Ze	ZN30900C	HDT-EM-253	May 16, 2025	3 Year
Filter	WCS Technology	ZBSF6-C2400-2483.5-294	HDT-EM-070	May 16, 2026	1 Year
RF Cable	Rosenberger	/	HDT-EM-078	May 17, 2025	3 Year
RF Cable	COM-MW	DCA9-2.92M80002.92M3.6-1304	HDT-EM-079	May 17, 2025	3 Year
DC Power	Agilent	E3632A	HDT-EM-043	Mar. 02, 2026	1Year
Power switching box	WCS Technology	SMU-3002	HDT-EM-047	Apr. 15, 2026	1 Year
Temperature Chamber	Guangke	GK-TH-1000	HDT-EM-039	Nov.24, 2025	1 Year
RF Test Software	WCS Technology	WCN-Regulatory	Version 25.06.2801		
EMI Test Software	Tonscend	JS32-CE	Version 5.0.0		
EMI Test Software	Tonscend	JS32-RE	Version 5.0.0		

Note:The attenuator is integrated into the Power Switch Box and taken into consideration during testing.

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4. EUT DESCRIPTION

Product:	Acoustic Camera
Test Model:	HA3LX
Additional Model:	HA3, HA3X, HA3T, HA3TX, HA3A, HA3PD, HA4
Test sample number:	86260714244-1
Rating:	DC 5V Battery 7.2V
Adapter Information:	Model:X524 INT PUT:100-240V 50/60Hz OUT PUT:5V--- 3A/ 9V--- 3A/ 12V--- 3A/ 15V--- 3A/ 20V--- 2.25A
FCC ID:	2BXXC-HA3LX
Antenna Type:	PCB Antenna
Antenna Gain:	2dBi
Operation Frequency:	2402-2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Hardware Version:	V1.0
Software Version:	V1.0

Note:

- 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity.
- 3) The product model is HA3LX the same PCB layout, electronic schematic, antenna, mechanical structure, and design as HA3, HA3X, HA3T, HA3TX, HA3A, HA3PD, HA4 .Only the models are difference.
- 4) The test results in the report only apply to the tested sample.

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4.1. Description of Test Configuration

Channel List for Bluetooth:

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

Test Channel

- Low Channel:2402MHz
- Middle Channel: 2440MHz
- High Channel:2480MHz

4.2. Equipment Modifications

Any modifications installed previous to testing by Shanghai Hertzino Technology Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by HD Testing Technology (GuangDong) Co., Ltd..

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5. TEST METHODOLOGY

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10-2020+Cor.1-2023 and KDB 558074 D01 15.247 Meas Guidance v05r02.

5.1. EUT System Operation

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 7.2V from battery or DC 5V from adapter during the test.

5.2. Configuration and Mode

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows.

Based on the baseline scan, the worst-case data rates were:

Mode	Data rate
GFSK	BLE 1Mbps

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6. SETUP OF EQUIPMENT UNDER TEST

6.1. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment

No.	Equipment	Model	Serial No.	Manufacturer
1	Notebook	Lenovo Rescuer 15ISK	PF0GS9S1	Lenovo
2	USB serial port board	CP2102	/	Silicon Labs
/	/	/	/	/

Support Cable

No.	Description	Shield	Length	Manufacturer
1	/	/	/	/
2	/	/	/	/

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.2. Block Diagram of EUT Configuration

Conducted and radiated emission configuration

Adapter/battery



EUT

RF Conducted configuration



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6.3. EUT Exercise Software

Test software:MobaXterm

Version:V26.1

Mode	Frequency	Power setting
BLE 1Mbps	2402	default
BLE 1Mbps	2440	default
BLE 1Mbps	2480	default

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7. TEST RESULTS AND MEASUREMENT DATA

7.1. Antenna Requirement

Test Requirement:	FCC Part Part 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. FCC Part 15.247(b)(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. 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.
Test Result:	According to the manufacturer declared, the EUT has a PCB antenna, the Maximum directional gain of antenna is 2 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision. Refer to EUT Photo for further details.

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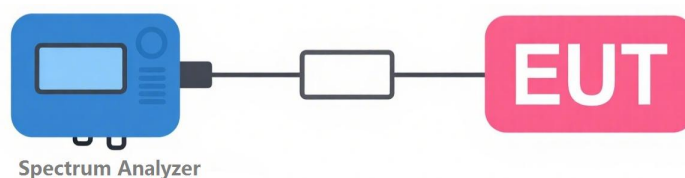
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7.2. Maximum Conducted Output Power

Test Requirement:	FCC Part 15.247 (b)(3)
Test Mode:	Transmitting mode with modulation
Limit:	For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).
Test Procedure:	Set spectrum analyzer as following: Set the RBW $\geq$ DTS bandwidth. Set VBW $\geq$ 3 x RBW. Set span $\geq$ 3 x RBW Sweep time = auto couple. Detector = peak. Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

7.2.1. Test Setup:



7.2.2. Test Result

Please refer to Appendix A:Test Results of Bluetooth BLE

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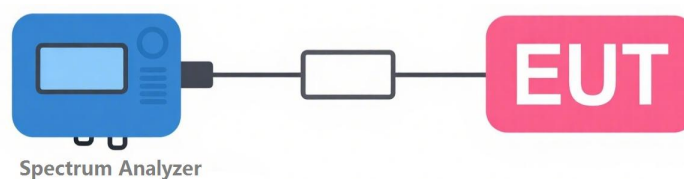
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7.3. 6dB Bandwidth

Test Requirement:	FCC Part 15.247 (a)(2)
Test Mode:	Transmitting mode with modulation
Limit:	The 6 dB Bandwidth is at least 500 kHz.
Test Procedure:	(1) Connect EUT's antenna output to spectrum analyzer by RF cable. (2) Set the spectrum analyzer as follows: Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the VBW > [3 x RBW]. Detector = peak. Trace mode = max-hold. Sweep = No faster than coupled (auto) time. Allow the trace to stabilize. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
Test Result:	PASS

7.3.1. Test Setup:



7.3.2. Test Result

Please refer to Appendix A: Test Results of Bluetooth BLE.

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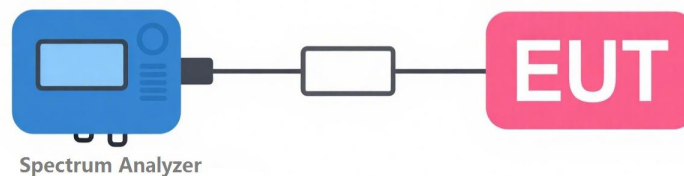
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7.4. Power Spectral Density

Test Requirement:	FCC Part 15.247 (e)
Test Mode:	Transmitting mode with modulation
Limit:	The Power Density does not exceed 8dBm/3 kHz.
Test Procedure:	Set spectrum analyzer as following: Set RBW $\geq$ 3kHz. Set VBW $\geq$ 3 x RBW. Set span to 1.5 times the DTS bandwidth Sweep time = auto couple. Detector = peak. Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

7.4.1. Test Setup



7.4.2. Test Result

Please refer to Appendix A:Test Results of Bluetooth BLE

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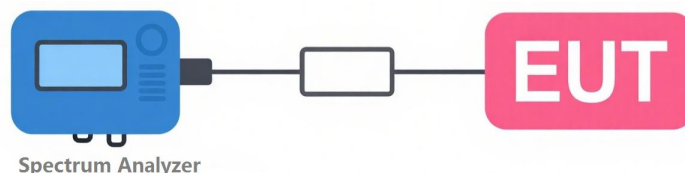
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7.5. Out of Band Conducted Emission

Test Requirement:	FCC Part15.247 (d)
Test Mode:	Transmitting mode with modulation
Limit:	At least 20 dB below the highest level of the desired power in the pass band.
Test Procedure:	Measurement Procedure -Reference Level Set the RBW = 100 kHz Set the VBW $\geq$ 300 kHz. Detector = peak. Sweep time = auto couple Trace mode = max hold. . Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW. Measurement Procedure -Unwanted Emission Level Set RBW = 100 kHz. Set VBW $\geq$ 300 kHz. Set span to encompass the spectrum to be examined. Detector = peak. Trace Mode = max hold. Sweep = auto couple.
Test Result:	PASS

7.5.1. Test Setup:



7.5.2. Test Result

Please refer to Appendix A: Test Results of Bluetooth BLE

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7.6. Band Edge

Test Requirement:	FCC Part15 C 15.247(d), 15.205, 15.209																										
Test Mode:	Transmitting mode with modulation																										
Limit:	<table><tr><td>Frequency Range (MHz)</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance(meters)</td></tr><tr><td>0.009~0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490~1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705~30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>			Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance(meters)	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
Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance(meters)																									
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																									
Test Procedure:	1. The EUT was placed on a turntable with 1.5 meter for frequency above 1GHz respectively above ground. 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. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 4. Set to the maximum power setting and enable the EUT transmit continuously. Note:Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis(X, Y, Z,). The worst case emissions were reported																										
Test Result:	PASS																										

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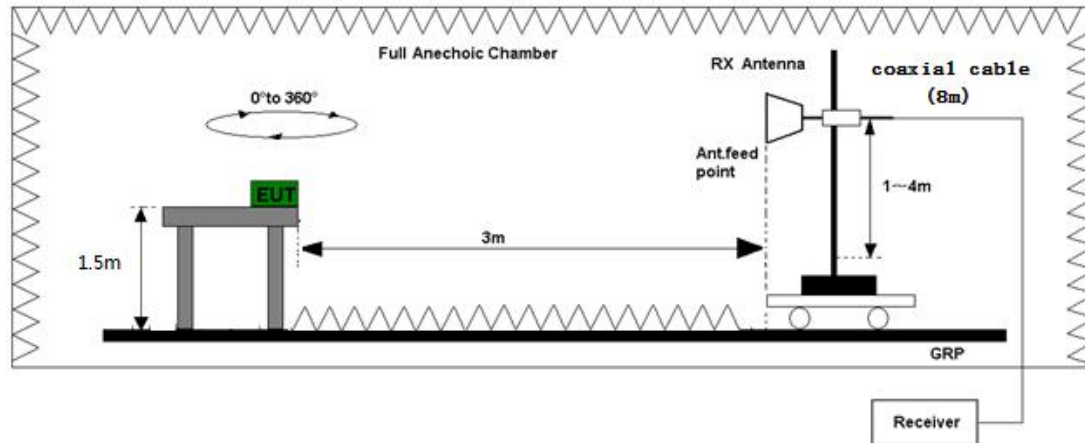
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7.6.1. Test Setup:



Test set-up of radiated disturbance (Above 1GHz)

7.6.2. Test Result

Test Voltage	DC 5V from adapter(120V/60Hz)
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Note:

- 1.The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- 2.Only worse case BLE 1M is reported.

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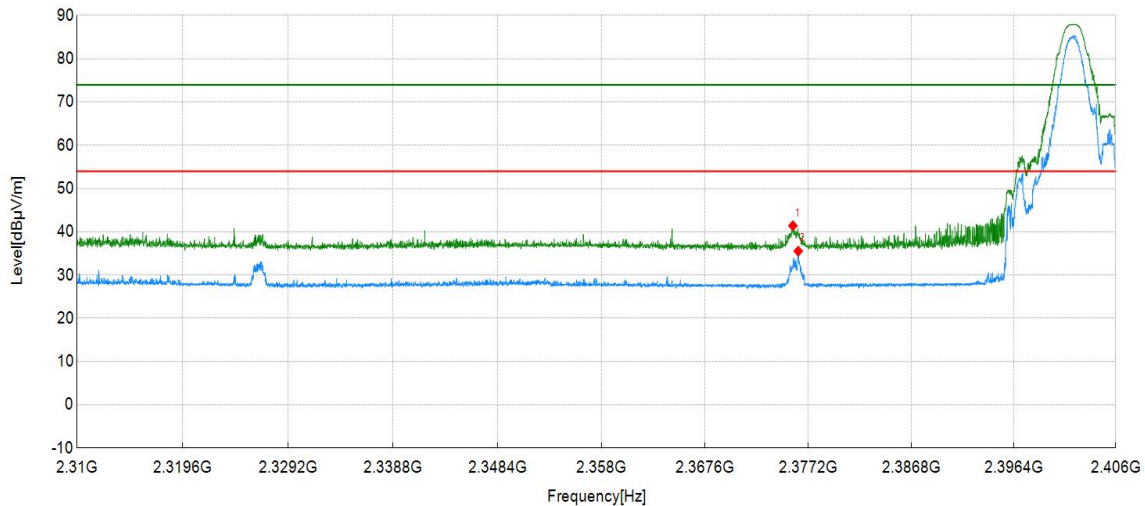
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Worst-case

BLE 1Mbps-2402MHz:

Please refer to the following diagram:

Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2375.75	64.82	41.41	-23.41	74.00	32.59	150	160	PK	Hori	PASS
2	2376.25	58.95	35.54	-23.41	54.00	18.46	150	201	AV	Hori	PASS

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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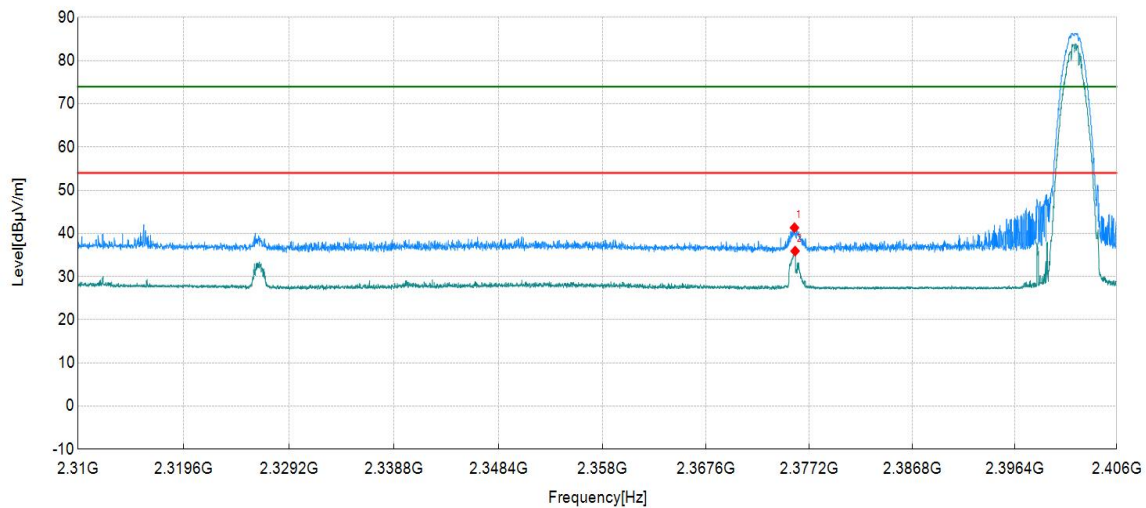
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Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2375.81	64.72	41.31	-23.41	74.00	32.19	150	147	PK	Vert	PASS
2	2375.87	59.31	35.90	-23.41	54.00	17.60	150	147	AV	Vert	PASS

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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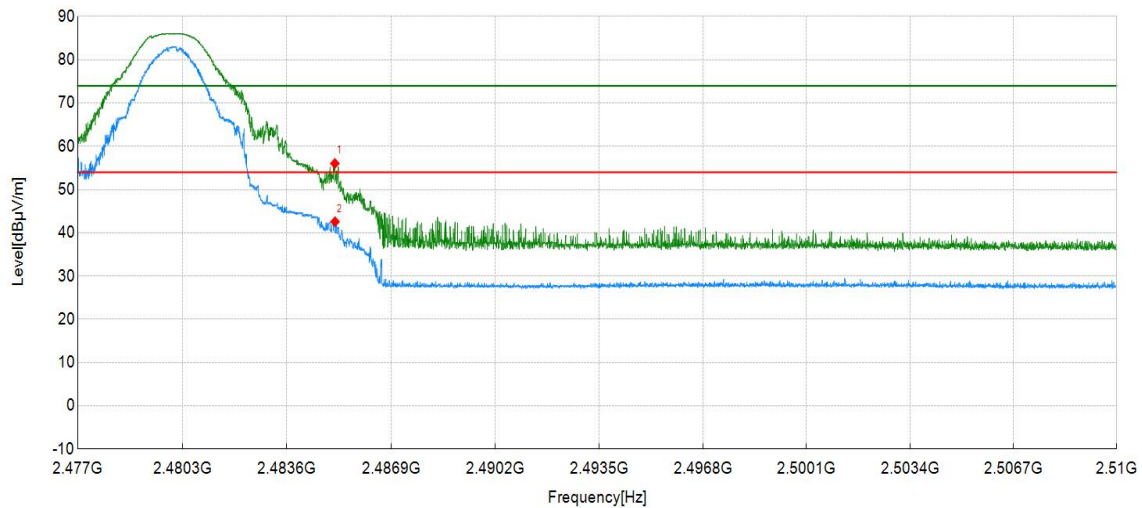
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BLE 1Mbps-2480MHz:

Please refer to the following diagram:

Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2485.13	79.49	56.04	-23.45	74.00	17.96	100	159	PK	Hori	PASS
2	2485.13	66.03	42.58	-23.45	54.00	11.42	100	159	AV	Hori	PASS

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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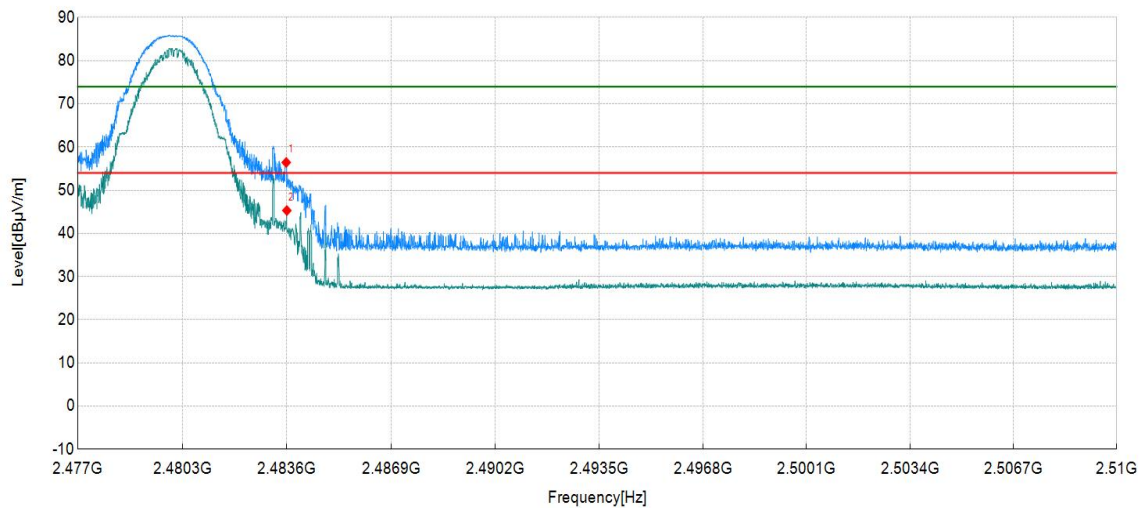
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Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2483.59	79.89	56.44	-23.45	74.00	17.56	100	57	PK	Vert	PASS
2	2483.61	68.75	45.30	-23.45	54.00	8.70	100	57	AV	Vert	PASS

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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7.7. Radiated Spurious Emissions

Test Requirement:	FCC Part15 C 15.247(d), 15.205, 15.209																										
Test Mode:	Transmitting mode with modulation																										
Limit:	<table><tr><td>Frequency Range (MHz)</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance(meters)</td></tr><tr><td>0.009~0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490~1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705~30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>			Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance(meters)	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
Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance(meters)																									
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																									
Test Procedure:	Radiated emission measurements were performed from 9kHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a styrene turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter. Note:Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis(X, Y, Z,). The worst case emissions were reported																										
Test Result:	PASS																										

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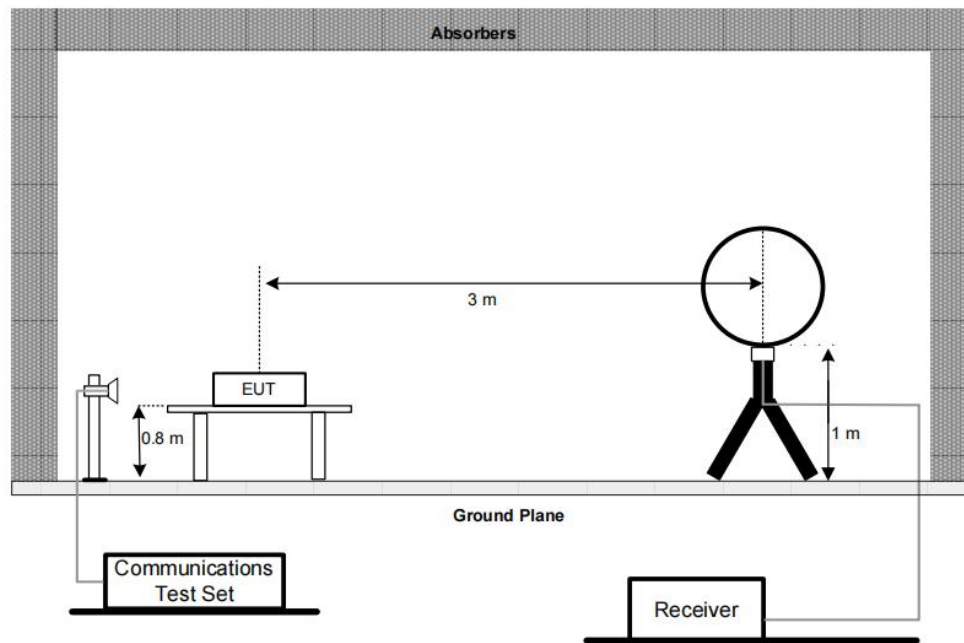
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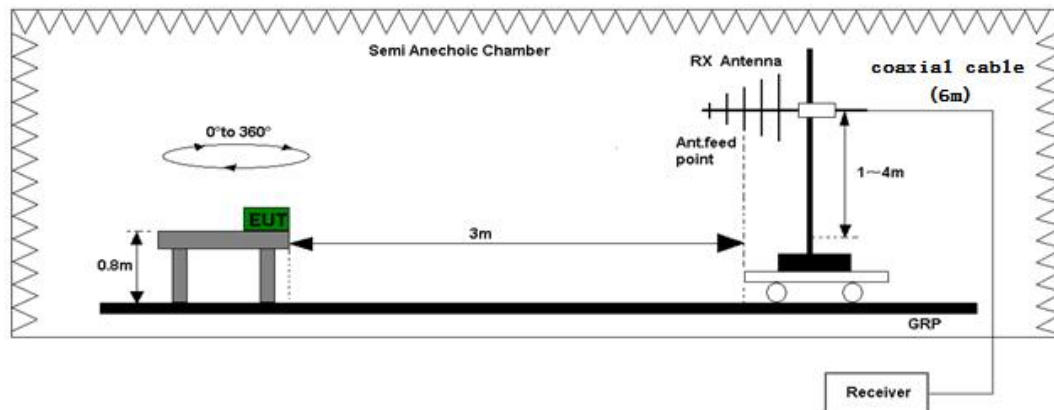
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7.7.1. Test Setup:



Test set-up of radiated disturbance (Up to 30MHz)



Test set-up of radiated disturbance (30MHz to 1GHz)

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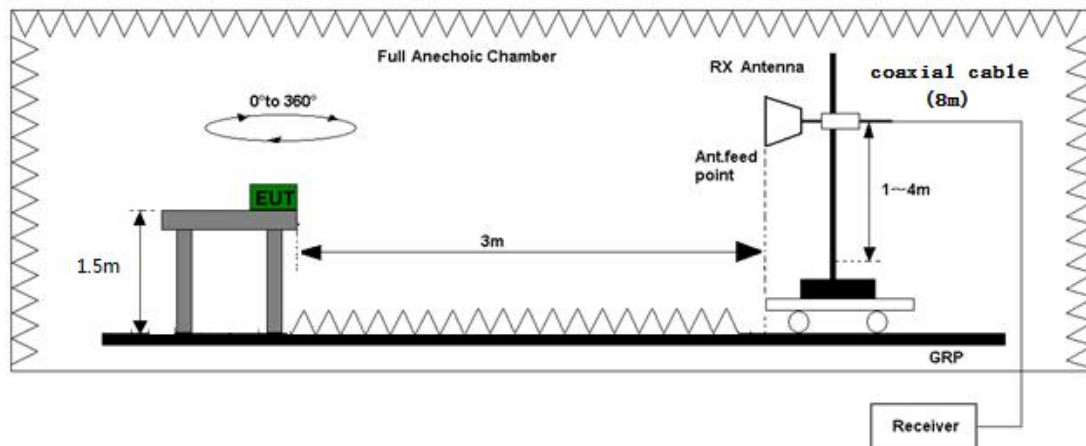
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Test set-up of radiated disturbance (Above 1GHz)

7.7.2. Test Result

Test Voltage	DC 5V from adapter(120V/60Hz)
--------------	-------------------------------

Note:

- 1.For 9KHz to 30MHz and above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.
- 2.Only worse case BLE 1M is reported.

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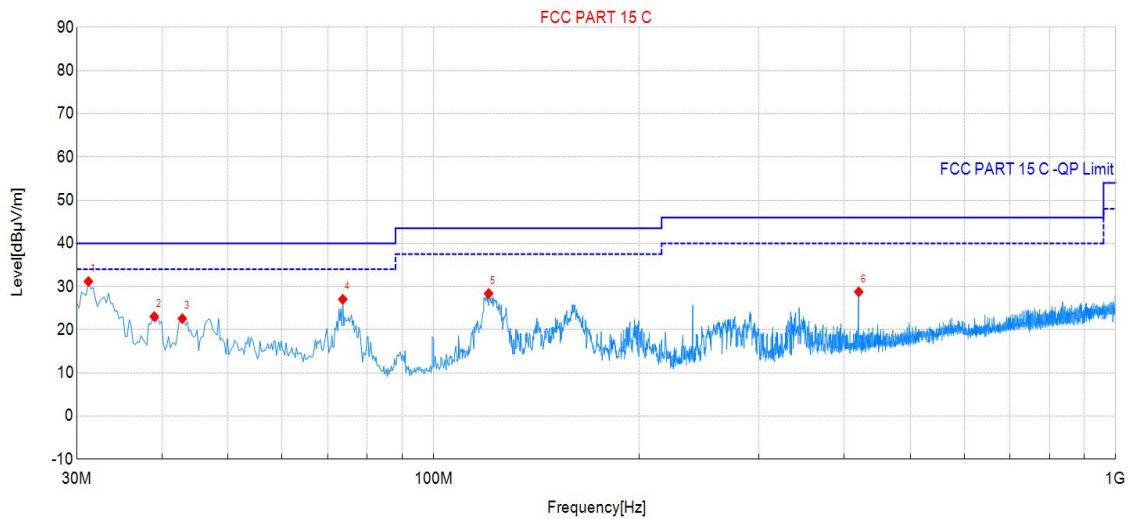
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Worst-case Spurious Emission below 1GHz

BLE 1Mbps -2402MHz

Please refer to the following diagram:

Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	30.00	43.44	25.65	-17.79	40.00	14.35	100	65	PK	Vertical	PASS
2	74.62	38.62	18.55	-20.07	40.00	21.45	100	337	PK	Vertical	PASS
3	159.25	39.36	23.33	-16.03	43.50	20.17	100	270	PK	Vertical	PASS
4	159.74	41.57	25.55	-16.02	43.50	17.95	100	244	PK	Vertical	PASS
5	199.02	41.33	21.41	-19.92	43.50	22.09	100	309	PK	Vertical	PASS
6	837.53	32.93	25.29	-7.64	46.00	20.71	100	112	PK	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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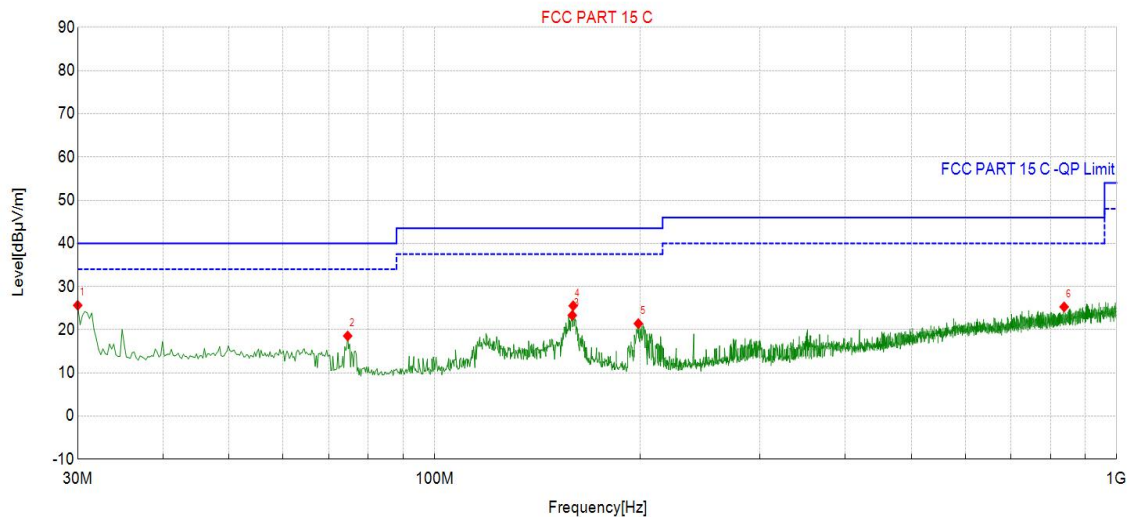
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Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	30.00	43.44	25.65	-17.79	40.00	14.35	100	65	PK	Horizontal	PASS
2	74.62	38.62	18.55	-20.07	40.00	21.45	100	337	PK	Horizontal	PASS
3	159.25	39.36	23.33	-16.03	43.50	20.17	100	270	PK	Horizontal	PASS
4	159.74	41.57	25.55	-16.02	43.50	17.95	100	244	PK	Horizontal	PASS
5	199.02	41.33	21.41	-19.92	43.50	22.09	100	309	PK	Horizontal	PASS
6	837.53	32.93	25.29	-7.64	46.00	20.71	100	112	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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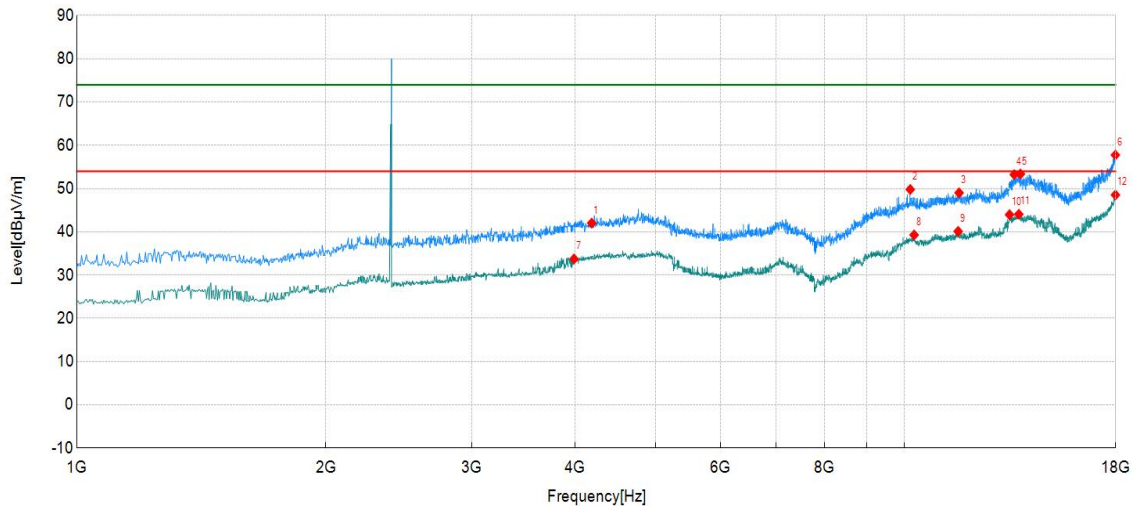
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Worst-case Radiated Emissions (Above 1GHz)

BLE 1M-2402MHz

Please refer to the following diagram:

Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	4189.84	62.32	42.02	-20.30	74.00	31.98	150	308	PK	Vertical	PASS
2	10164.83	63.04	49.79	-13.25	74.00	24.21	150	360	PK	Vertical	PASS
3	11644.13	59.51	49.02	-10.49	74.00	24.98	150	106	PK	Vertical	PASS
4	13575.72	64.10	53.23	-10.87	74.00	20.77	150	95	PK	Vertical	PASS
5	13810.36	63.97	53.37	-10.60	74.00	20.63	150	190	PK	Vertical	PASS
6	17986.40	60.55	57.76	-2.79	74.00	16.24	150	136	PK	Vertical	PASS
7	3989.20	54.43	33.73	-20.70	54.00	20.27	150	116	AV	Vertical	PASS
8	10273.65	52.14	39.28	-12.86	54.00	14.72	150	243	AV	Vertical	PASS
9	11613.52	50.51	40.11	-10.40	54.00	13.89	150	30	AV	Vertical	PASS
10	13398.88	55.15	43.96	-11.19	54.00	10.04	150	85	AV	Vertical	PASS
11	13749.15	54.76	44.06	-10.70	54.00	9.94	150	359	AV	Vertical	PASS
12	17989.80	51.26	48.53	-2.73	54.00	5.47	150	308	AV	Vertical	PASS

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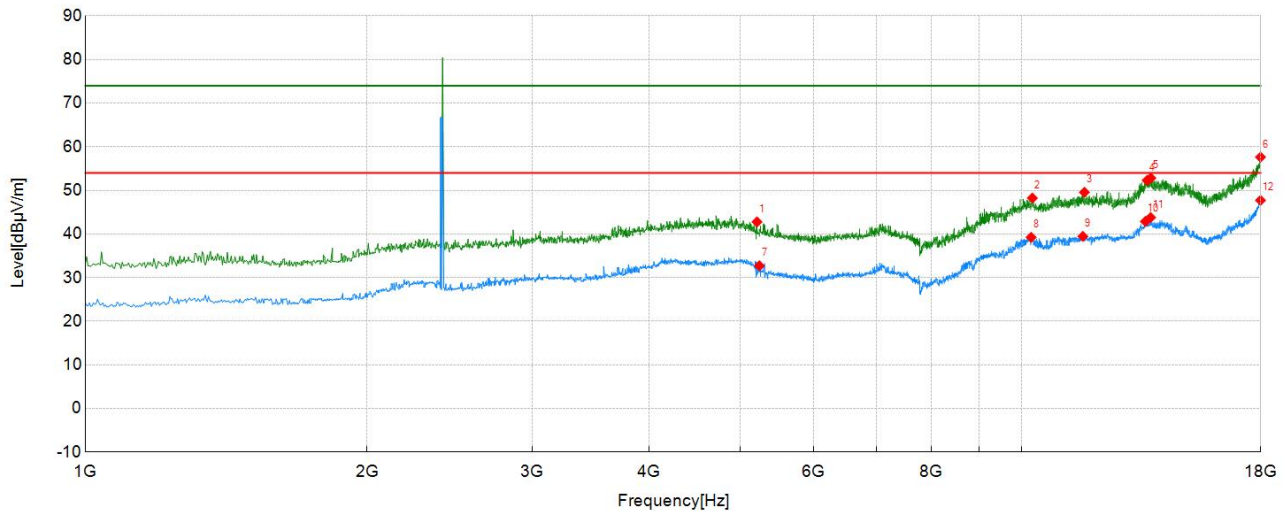
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Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5216.84	62.54	42.77	-19.77	74.00	31.23	150	267	PK	Horizontal	PASS
2	10266.85	61.12	48.24	-12.88	74.00	25.76	150	137	PK	Horizontal	PASS
3	11667.93	60.12	49.56	-10.56	74.00	24.44	150	137	PK	Horizontal	PASS
4	13613.12	63.14	52.29	-10.85	74.00	21.71	150	0	PK	Horizontal	PASS
5	13738.95	63.55	52.83	-10.72	74.00	21.17	150	1	PK	Horizontal	PASS
6	17989.80	60.36	57.63	-2.73	74.00	16.37	150	341	PK	Horizontal	PASS
7	5247.45	52.70	32.71	-19.99	54.00	21.29	150	106	AV	Horizontal	PASS
8	10236.25	52.23	39.23	-13.00	54.00	14.77	150	127	AV	Horizontal	PASS
9	11623.72	49.88	39.45	-10.43	54.00	14.55	150	277	AV	Horizontal	PASS
10	13558.71	53.75	42.87	-10.88	54.00	11.13	150	287	AV	Horizontal	PASS
11	13732.15	54.53	43.79	-10.74	54.00	10.21	150	0	AV	Horizontal	PASS
12	17989.80	50.45	47.72	-2.73	54.00	6.28	150	341	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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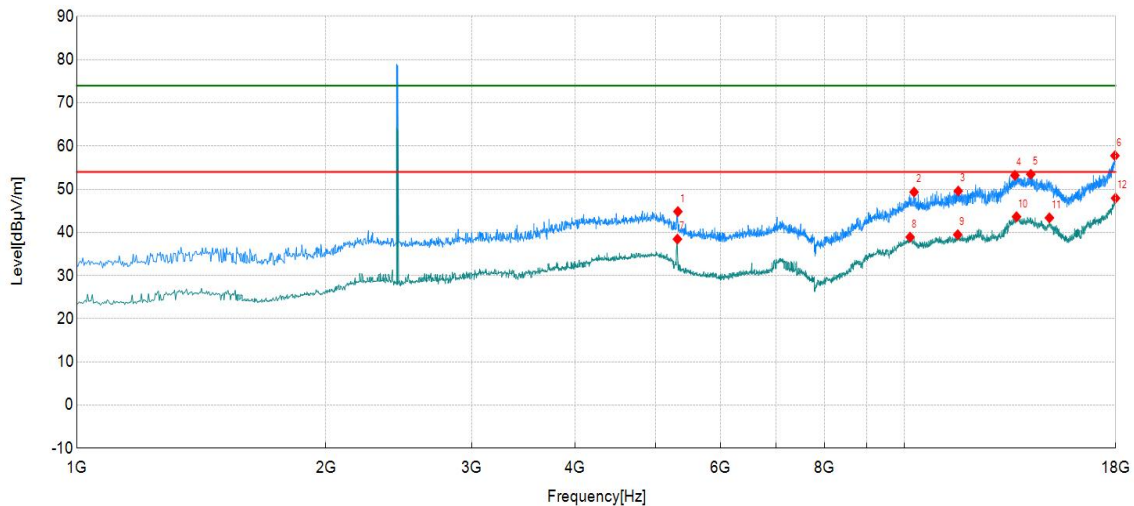
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BLE 1M-2440MHz

Please refer to the following diagram:

Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5325.67	65.33	44.83	-20.50	74.00	29.17	150	244	PK	Vertical	PASS
2	10273.65	62.20	49.34	-12.86	74.00	24.66	150	65	PK	Vertical	PASS
3	11616.92	60.00	49.58	-10.42	74.00	24.42	150	1	PK	Vertical	PASS
4	13599.52	64.07	53.21	-10.86	74.00	20.79	150	159	PK	Vertical	PASS
5	14215.04	63.20	53.45	-9.75	74.00	20.55	150	359	PK	Vertical	PASS
6	17965.99	60.90	57.76	-3.14	74.00	16.24	150	170	PK	Vertical	PASS
7	5318.86	58.91	38.44	-20.47	54.00	15.56	150	244	AV	Vertical	PASS
8	10161.43	52.18	38.91	-13.27	54.00	15.09	150	256	AV	Vertical	PASS
9	11599.92	49.85	39.48	-10.37	54.00	14.52	150	267	AV	Vertical	PASS
10	13660.73	54.44	43.63	-10.81	54.00	10.37	150	341	AV	Vertical	PASS
11	14969.99	53.78	43.36	-10.42	54.00	10.64	150	7	AV	Vertical	PASS
12	17993.20	50.60	47.92	-2.68	54.00	6.08	150	1	AV	Vertical	PASS

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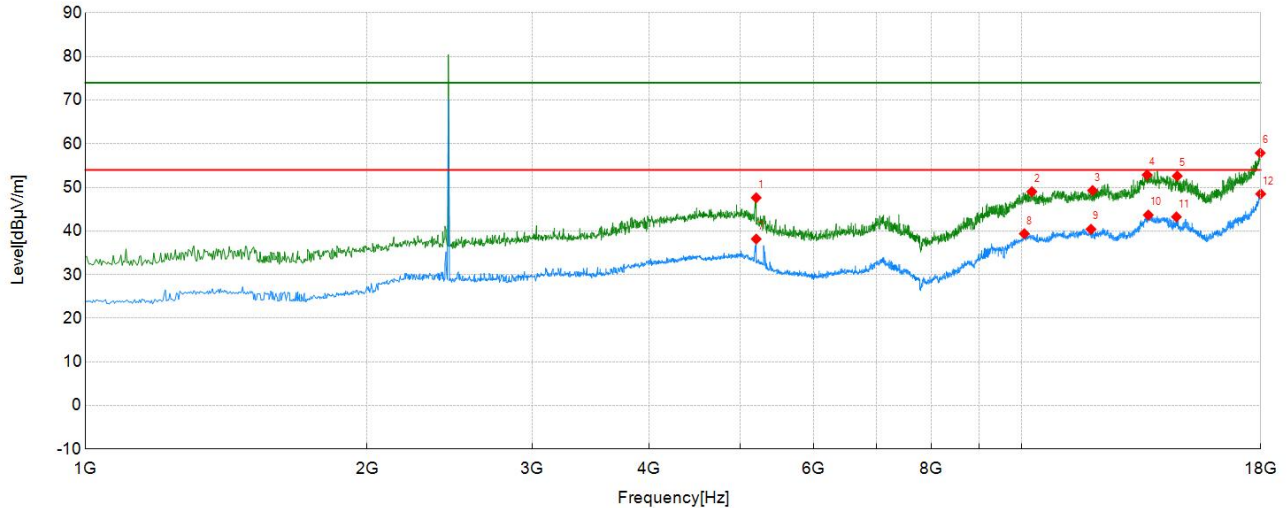
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Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5206.64	67.31	47.62	-19.69	74.00	26.38	150	139	PK	Horizontal	PASS
2	10253.25	61.95	49.01	-12.94	74.00	24.99	150	341	PK	Horizontal	PASS
3	11905.98	60.09	49.29	-10.80	74.00	24.71	150	330	PK	Horizontal	PASS
4	13613.12	63.72	52.87	-10.85	74.00	21.13	150	233	PK	Horizontal	PASS
5	14660.53	62.46	52.60	-9.86	74.00	21.40	150	309	PK	Horizontal	PASS
6	17979.60	60.79	57.88	-2.91	74.00	16.12	150	289	PK	Horizontal	PASS
7	5206.64	57.85	38.16	-19.69	54.00	15.84	150	139	AV	Horizontal	PASS
8	10066.21	52.88	39.37	-13.51	54.00	14.63	150	347	AV	Horizontal	PASS
9	11858.37	51.22	40.40	-10.82	54.00	13.60	150	224	AV	Horizontal	PASS
10	13653.93	54.47	43.65	-10.82	54.00	10.35	150	341	AV	Horizontal	PASS
11	14629.93	53.03	43.24	-9.79	54.00	10.76	150	73	AV	Horizontal	PASS
12	18000.00	51.06	48.50	-2.56	54.00	5.50	150	359	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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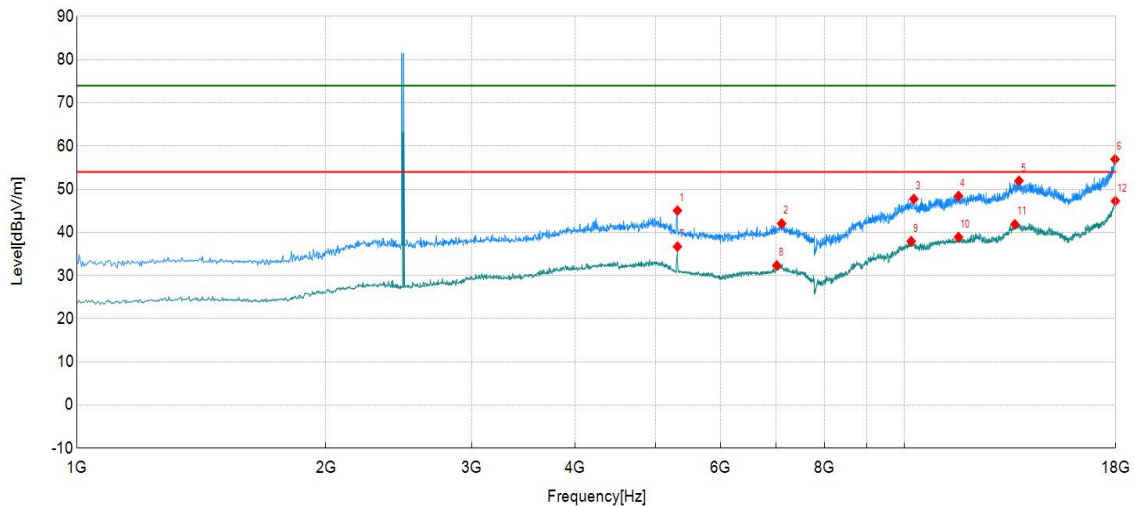
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BLE 1M-2480MHz

Please refer to the following diagram:

Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5318.86	65.52	45.05	-20.47	74.00	28.95	150	50	PK	Vertical	PASS
2	7107.62	61.89	42.05	-19.84	74.00	31.95	150	1	PK	Vertical	PASS
3	10266.85	60.61	47.73	-12.88	74.00	26.27	150	157	PK	Vertical	PASS
4	11627.13	58.87	48.43	-10.44	74.00	25.57	150	210	PK	Vertical	PASS
5	13755.95	62.64	51.95	-10.69	74.00	22.05	150	145	PK	Vertical	PASS
6	17969.39	60.01	56.93	-3.08	74.00	17.07	150	360	PK	Vertical	PASS
7	5318.86	57.18	36.71	-20.47	54.00	17.29	150	252	AV	Vertical	PASS
8	7012.40	52.14	32.33	-19.81	54.00	21.67	150	328	AV	Vertical	PASS
9	10192.04	51.12	37.94	-13.18	54.00	16.06	150	316	AV	Vertical	PASS
10	11623.72	49.34	38.91	-10.43	54.00	15.09	150	306	AV	Vertical	PASS
11	13602.92	52.72	41.86	-10.86	54.00	12.14	150	359	AV	Vertical	PASS
12	17986.40	50.05	47.26	-2.79	54.00	6.74	150	356	AV	Vertical	PASS

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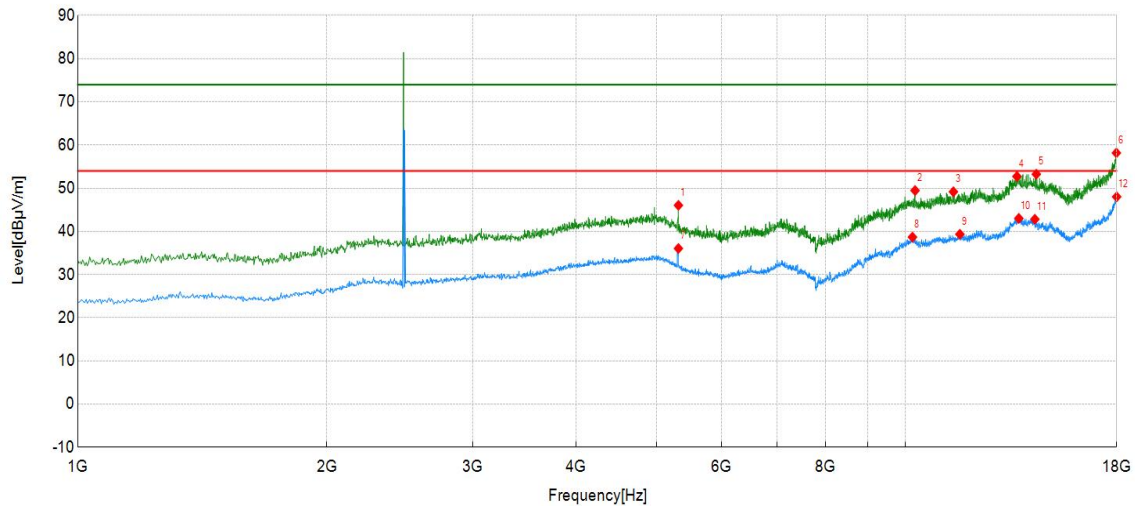
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Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	5318.86	66.51	46.04	-20.47	74.00	27.96	150	320	PK	Horizontal	PASS
2	10273.65	62.33	49.47	-12.86	74.00	24.53	150	300	PK	Horizontal	PASS
3	11429.89	59.71	49.17	-10.54	74.00	24.83	150	10	PK	Horizontal	PASS
4	13640.33	63.56	52.73	-10.83	74.00	21.27	150	129	PK	Horizontal	PASS
5	14395.28	62.80	53.25	-9.55	74.00	20.75	150	2	PK	Horizontal	PASS
6	17986.40	60.96	58.17	-2.79	74.00	15.83	150	1	PK	Horizontal	PASS
7	5318.86	56.51	36.04	-20.47	54.00	17.96	150	0	AV	Horizontal	PASS
8	10198.84	51.82	38.67	-13.15	54.00	15.33	150	75	AV	Horizontal	PASS
9	11637.33	49.80	39.33	-10.47	54.00	14.67	150	193	AV	Horizontal	PASS
10	13711.74	53.78	43.01	-10.77	54.00	10.99	150	2	AV	Horizontal	PASS
11	14337.47	52.45	42.81	-9.64	54.00	11.19	150	351	AV	Horizontal	PASS
12	18000.00	50.57	48.01	-2.56	54.00	5.99	150	10	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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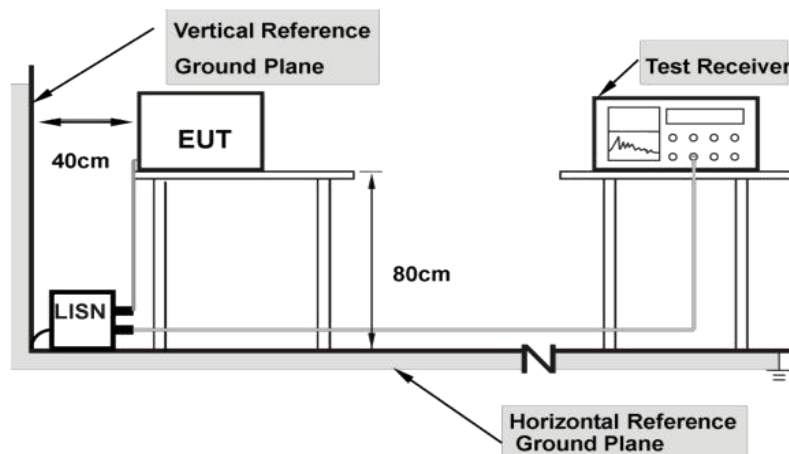
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7.8. Conducted Emission

Test Requirement:	FCC Part 15.207(a)		
Test Mode:	Transmitting mode with modulation		
Limit:			
	Frequency of Emission (MHz)	Conducted Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Procedure:	For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.		
Test Result:	Pass		

Test Setup



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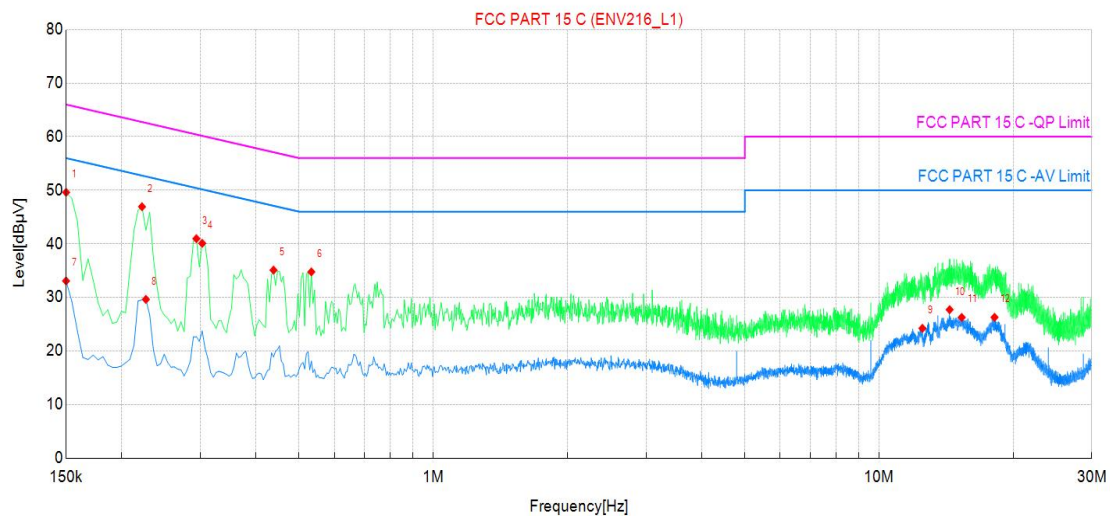
7.8.1. Test Result

Test Voltage	DC 5V from adapter(120V/60Hz)
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Worst-case:BLE 1Mbps-2440MHz

Please refer to the following diagram:

Line:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.150000	30.32	49.61	19.29	66.00	16.39	L1	PK	PASS
2	0.222000	27.75	46.93	19.18	62.74	15.81	L1	PK	PASS
3	0.294000	21.80	40.96	19.16	60.41	19.45	L1	PK	PASS
4	0.303000	20.93	40.09	19.16	60.16	20.07	L1	PK	PASS
5	0.438000	15.98	35.09	19.11	57.10	22.01	L1	PK	PASS
6	0.532500	15.64	34.76	19.12	56.00	21.24	L1	PK	PASS
7	0.150000	13.78	33.07	19.29	56.00	22.93	L1	AV	PASS
8	0.226500	10.45	29.63	19.18	52.58	22.95	L1	AV	PASS
9	12.511500	4.88	24.23	19.35	50.00	25.77	L1	AV	PASS
10	14.401500	8.43	27.71	19.28	50.00	22.29	L1	AV	PASS
11	15.328500	7.00	26.26	19.26	50.00	23.74	L1	AV	PASS
12	18.159000	6.89	26.28	19.39	50.00	23.72	L1	AV	PASS

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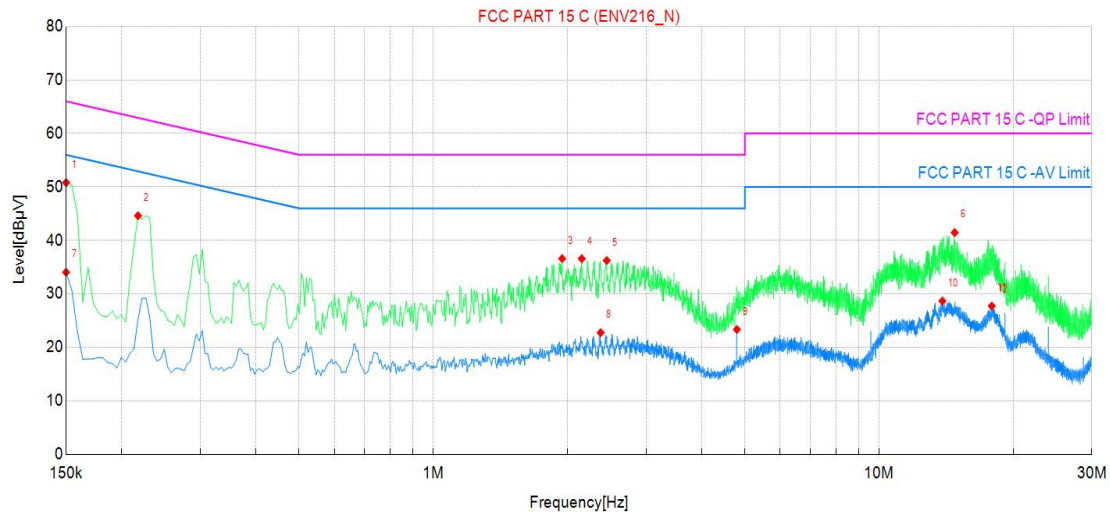
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Neutral:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.150000	31.61	50.80	19.19	66.00	15.20	N	PK	PASS
2	0.217500	25.42	44.61	19.19	62.91	18.30	N	PK	PASS
3	1.945500	17.39	36.59	19.20	56.00	19.41	N	PK	PASS
4	2.152500	17.39	36.58	19.19	56.00	19.42	N	PK	PASS
5	2.449500	17.06	36.24	19.18	56.00	19.76	N	PK	PASS
6	14.779500	22.22	41.47	19.25	60.00	18.53	N	PK	PASS
7	0.150000	14.85	34.04	19.19	56.00	21.96	N	AV	PASS
8	2.373000	3.56	22.75	19.19	46.00	23.25	N	AV	PASS
9	4.798500	4.15	23.34	19.19	46.00	22.66	N	AV	PASS
10	13.870500	9.41	28.66	19.25	50.00	21.34	N	AV	PASS
11	17.898000	8.35	27.73	19.38	50.00	22.27	N	AV	PASS
12	17.970000	8.10	27.48	19.38	50.00	22.52	N	AV	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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8. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix file.(Test Setup Photo)

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9. PHOTOGRAPHS OF EUT

For photographs of the EUT, refer to the appendix file(EUT External Photos and EUT Internal Photos).

*** End of Report ***

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