MEASUREMENT REPORT

FCC PART 15.247 Bluetooth LE

FCC ID:	2A34NGB100
APPLICANT:	Glam Technologies Pte Ltd.
Application Type:	Certification
Product:	GB110 / GB100
Model No.:	GB110
Serial Model:	GB100
Trademark:	GLAMTECH
FCC Classification:	(DTS) Digital Transmission System
FCC Rule Part(s):	Part 15.247
Test Procedure(s):	ANSI C63.10-2013
Received Date:	November 10 ,2021
Test Date:	December 1~13 ,2021

Tested By : Peter Syu

(Peter Syu)

Reviewed By : Paddy Chen

(Paddy Chen)

Approved By : Chenz Ker

(Chenz Ker)

Testing Laboratory
3261

The test results only relate to the tested sample.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2111TW1101-U2	1.0	Original Report	2021-12-30	

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§2.1033 General Information

Applicant	Glam Technologies Pte Ltd.
Applicant Address	220 Depot Road #19-76 The Interlace Singapore 109704
Manufacturer	G-DEVELOP TECHNOLOGY CO., LTD.
Manufacturer Address	No. 37-1, Manping St., Banqiao Dist., New Taipei City 22072, Taiwan (R.O.C.)
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.247
Test Device Serial No.	#1 ☐ Production ☒ Pre-Production ☐ Engineering

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Taiwan, EU and TELEC Rules.

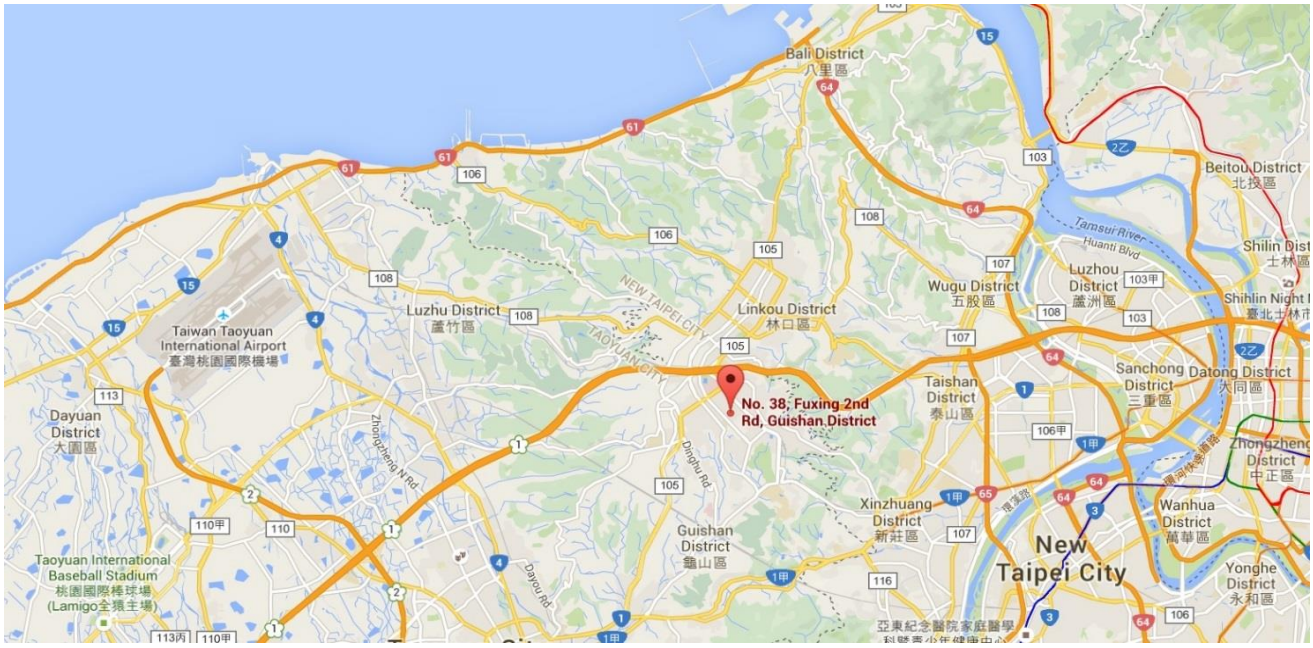
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	GB110/GB100
Model No.	GB110
Serial Model	GB100
Trademark	GLAMTECH
Bluetooth Specification	Bluetooth V4.1 LE
Maximum Power	0.054dBm
Accessory	
Battery	Manufacturer: Dongguan PD New Energy Co., Ltd. Model No: PD 7565121P-8000mAh Rating: DC 3.7V, 8000mAh,29.6Wh

Note:

1. Model Difference: Only the LED light strip of the product is different; the RF hardware are identical. (declared by the manufacturer)

Product Name	Model No.	Model Difference
GB110	GB110	Ultrasoft Edge-lit LED Assembly >95 CRI (126 LEDs) 2700K – 6500K > 1300 lumens
GB100	GB100	Ultrasoft Edge-lit LED Assembly >95 CRI (64 LEDs) 5000K >750 lumens
Note: The main test model is GB110.		

2. The test was performed base on GB110.

2.2. Product Specification Subjective to this Standard

Operating Frequency	2402~2480MHz
Type of modulation	GFSK
Data Rate	1Mbps

2.3. Test Mode

Test Mode	Mode 1: Transmit - LE (GFSK)

Note: Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.

2.4. Operation Frequency / Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	N/A	N/A	N/A	N/A

2.5. Test Configuration

This device was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.6. Test Software

The test utility software used during testing was “Smart RF”.

2.7. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.8. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v05r02 were used in the measurement of the **GB100.**

Deviation from measurement procedure…….....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment which determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.8.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, which produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

Radiated emissions test results are shown in Section 7.6 & 7.7 .

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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."

- The antenna of the **GB100,** is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	INPAQ	ACA-5036-A2-CC-S	Chip	2.1 dBi

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2022/4/28
Cable	Rosnol	N1C50-RG400-B 1C50-500CM	MRTTWE00013	1 year	2022/6/20
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2022/3/24

Radiated Emissions – AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2022/10/4
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2022/3/24
Acitve Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2022/5/6
Broadband Horn antenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2022/4/21
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2022/4/28
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2022/4/26
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2022/4/21
Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2022/6/15
Cable	Rosnol	K1K50-UP0264-K1K50-4M	MRTTWE00012	1 year	2022/6/20

Conducted Test Equipment – SR5

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2022/10/18
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2022/7/19
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2022/3/24

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V3	EMI Test Software

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Conducted Emission- Power Line
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.15MHz~30MHz: ± 2.53dB
Radiated Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 9kHz~30MHz: ± 3.92dB 30MHz~1GHz: ± 4.25dB 1GHz~18GHz: ± 4.40dB 18GHz~40GHz: ± 4.45dB
Frequency Error
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±78.4Hz
Conducted Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ± 0.84dB
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):± 2.65 dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 3.3%
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±0.82°C/ ±3%
DC Voltage
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ±0.3%

7. TEST RESULT

7.1. Summary

Product Name: **GB110/GB100**

FCC Classification: **(DTS) Digital Transmission System**

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	≤ 30.00dBm		Pass	Section 7.3
15.247(e)	Power Spectral Density	≤ 8.00dBm/3kHz		Pass	Section 7.4
15.247(d)	Out-of-Band Emissions	Conducted ≥ 20dBc		Pass	Section 7.5
15.205 15.209	Spurious Emission	< FCC 15.209 limits	Radiated	Pass	Section 7.6
15.205 15.209	Band Edge Measurement	≦ 74dBuV/m(Peak) ≦54dBuV/m(Average)		Pass	Section 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

1) Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified when applicable. The test results shown in the following sections represent the worst case emissions.
3) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
4) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

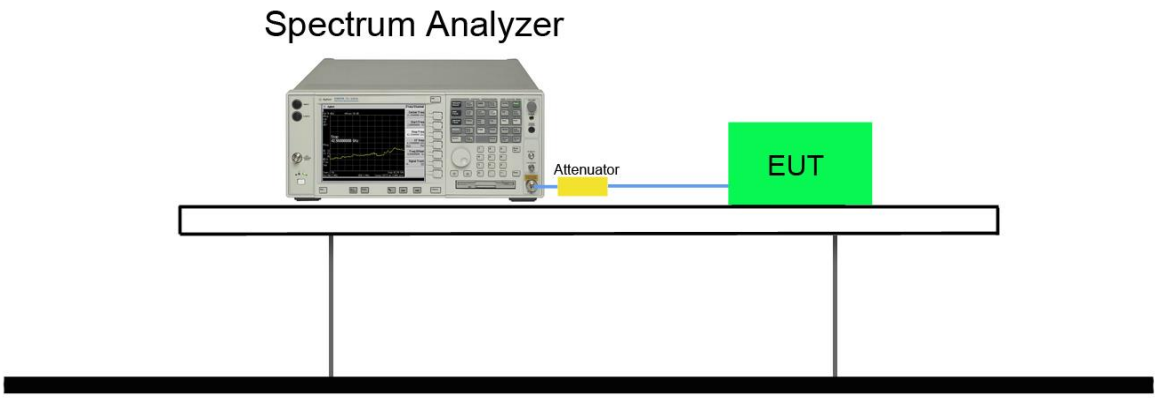
7.2.2. Test Procedure used

KDB 558074 D01v05r02- Section 8.2 Option 2

7.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace was allowed to stabilize

7.2.4. Test Setup



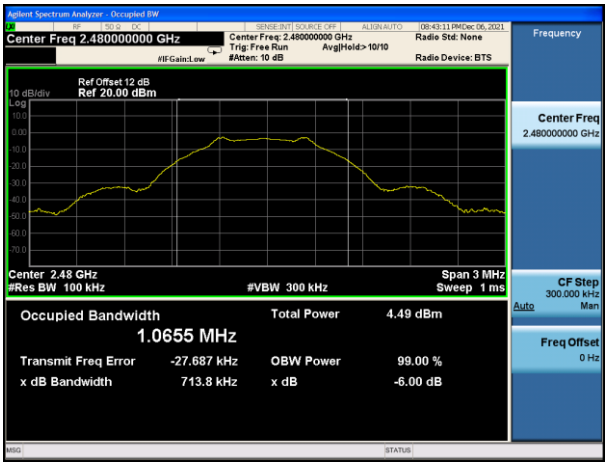
7.2.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
LE	00	2402	0.7042	1.0631	≥ 0.5	Pass
LE	19	2440	0.7059	1.0629	≥ 0.5	Pass
LE	39	2480	0.7138	1.0655	≥ 0.5	Pass

LE CH00 (2402MHz)

LE CH19 (2440MHz)

LE CH39 (2480MHz)



7.3. Output Power Measurement

7.3.1. Test Limit

The maximum out power shall be less 1 Watt (30dBm).

7.3.2. Test Procedure Used

KDB 558074 D01v05r02 - Section 8.3

7.3.3. Test Setting

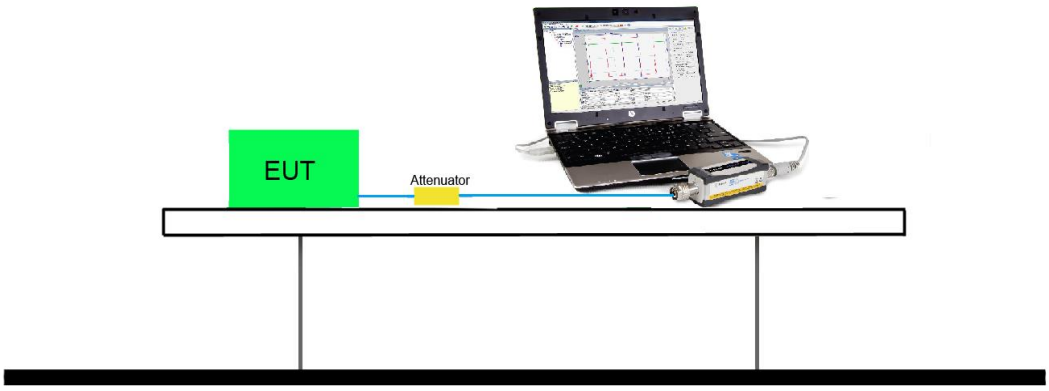
Peak Power Measurement

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.3.4. Test Setup



7.3.5. Test Result of Output Power

Test Mode	Channel No.	Frequency (MHz)	Peak Power (dBm)	EIRP (dBm)	Peak Power Limit (dBm)	EIRP Limit (dBm)
LE	00	2402	-2.084	0.016	< 30	< 36
LE	19	2440	-2.046	0.054	< 30	< 36
LE	39	2480	-2.446	-0.346	< 30	< 36

Note1: Output power =Reading value on power meter + cable loss.

Note2: Antenna Gain: 2.1 dBi.

7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

7.4.2. Test Procedure Used

KDB 558074 D01v05r02 - Section 8.4 Method PKPSD

7.4.3. Test Setting

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to: 3 kHz.

d) Set the VBW ≥ 3* RBW.

e) Detector = peak.

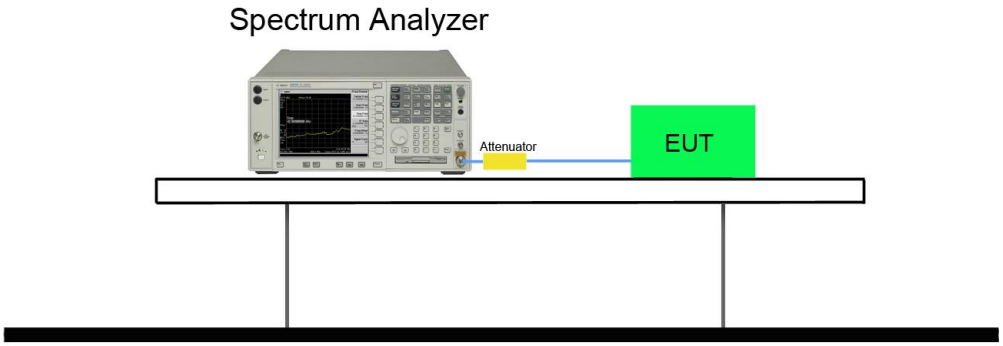
f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

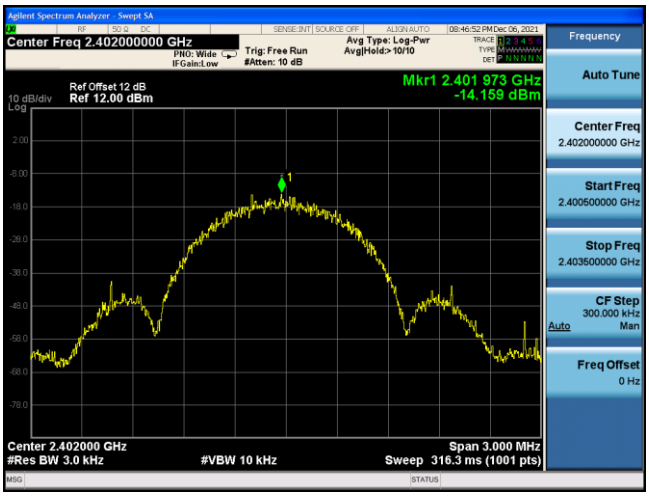
7.4.4. Test Setup



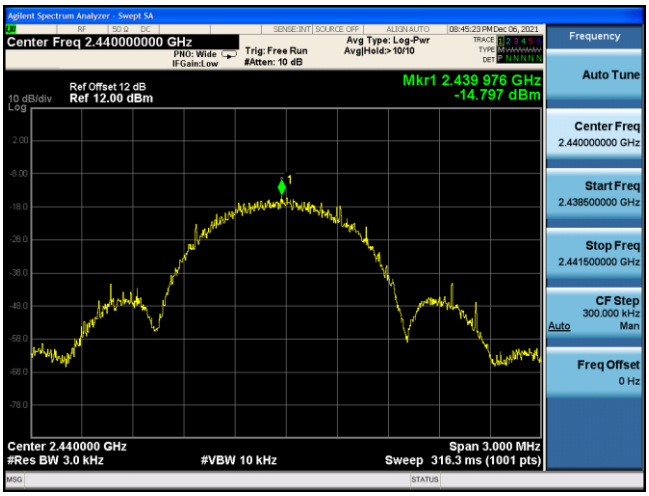
7.4.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Result
LE	00	2402	-14.159	≤ 8	Pass
LE	19	2440	-14.797	≤ 8	Pass
LE	39	2480	-15.500	≤ 8	Pass

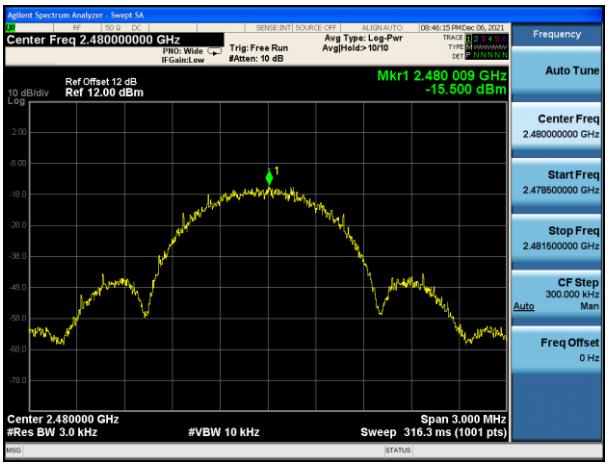
LE CH00 (2402MHz)



LE CH19 (2440MHz)



LE CH39 (2480MHz)



7.5. Out-of-Band Spurious Emissions Emissions Measurement

7.5.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 of the desired power, based on RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.5.2. Test Procedure Used

ANSI C63.10- Section 11.1 & 11.2

7.5.3. Test Settitng

(a) Set instrument center frequency to DTS channel center frequency

(b) Set the span to ≥ 1.5 times the DTS bandwidth

(c) Set the RBW = 100 kHz

(d) Set the VBW ≥ 3 x RBW

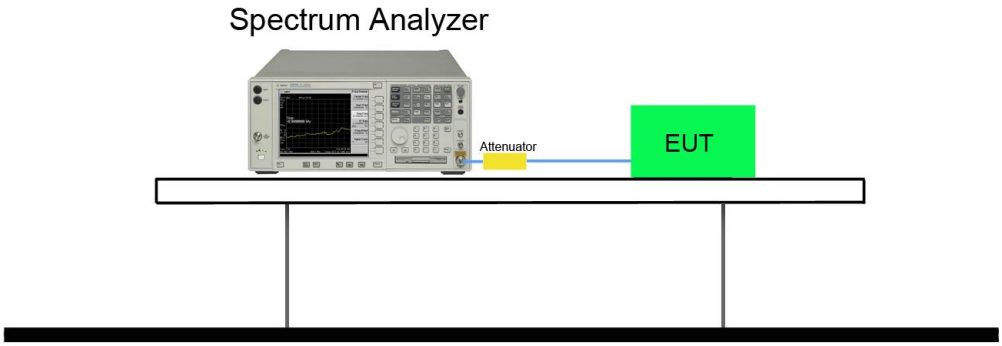
(e) Detector = peak

(f) Sweep time = auto couple

(g) Trace mode = max hold

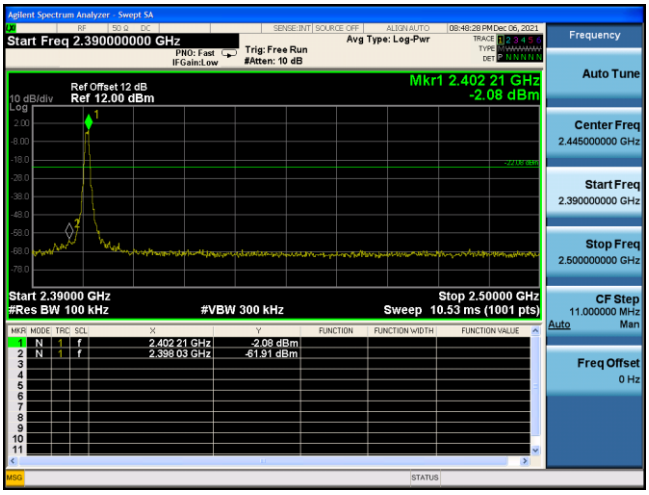
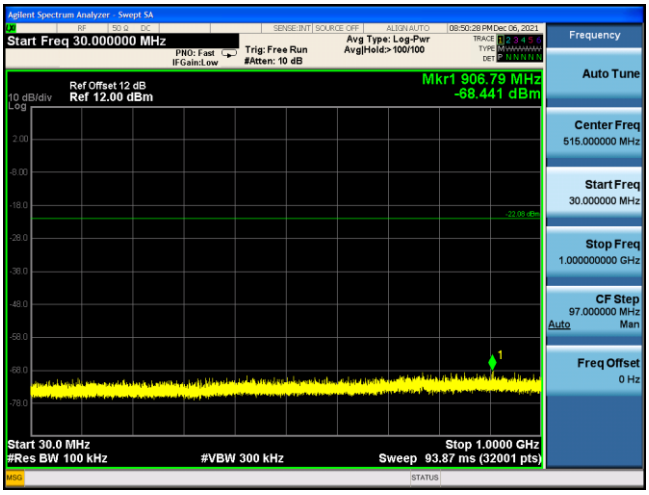
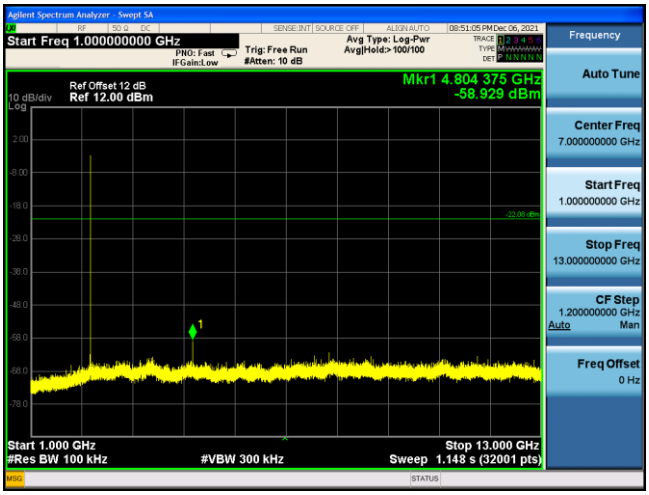
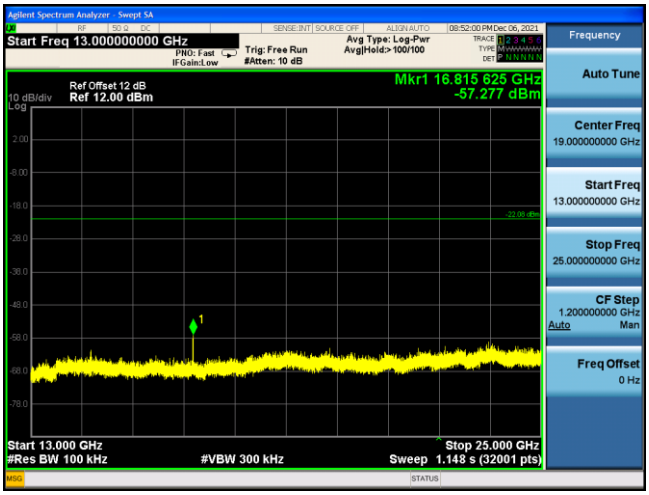
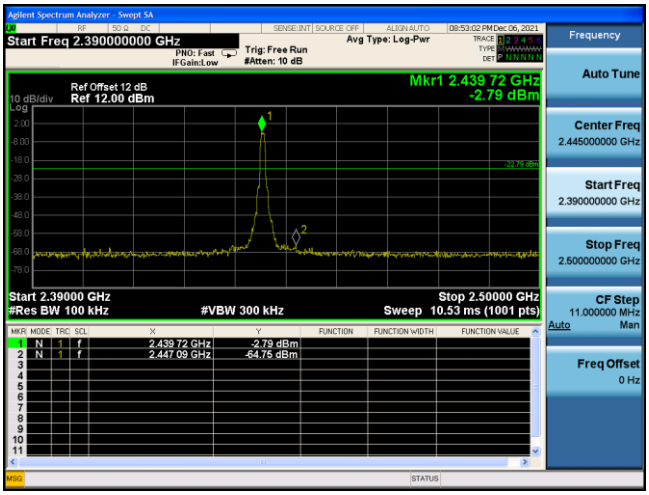
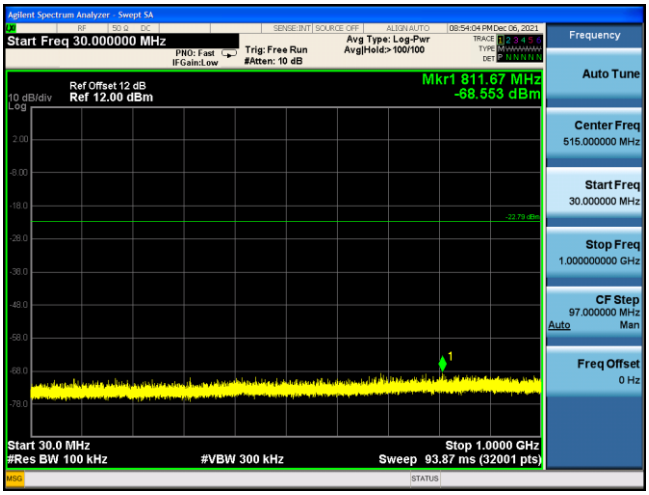
(h) Allow trace to fully stabilize

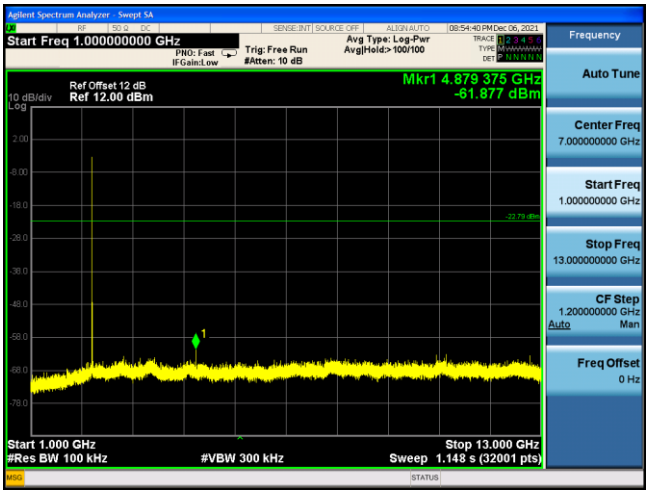
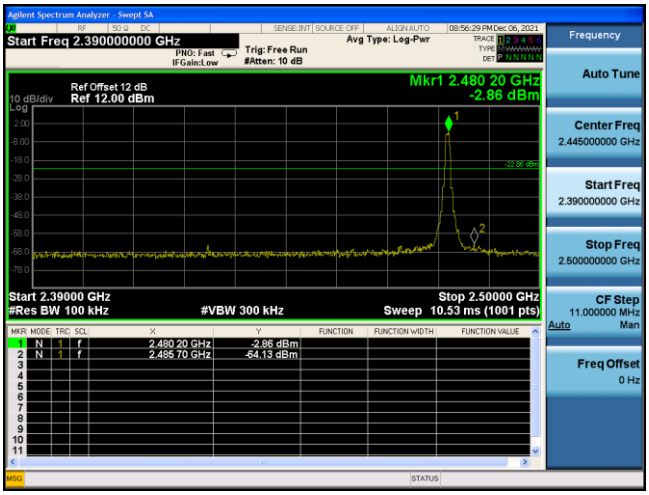
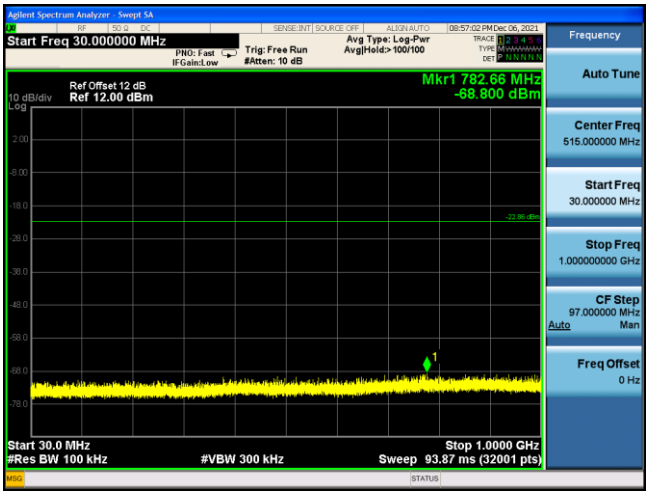
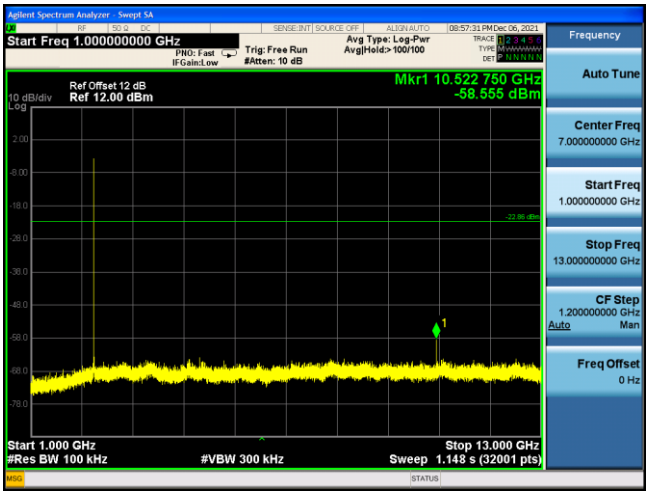
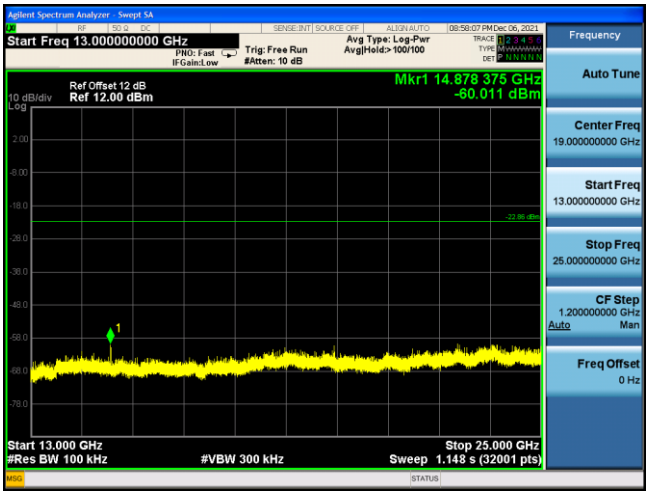
7.5.4. Test Setup



7.5.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	Limit	Result
LE	00	2402	20dBc	Pass
LE	19	2440	20dBc	Pass
LE	39	2480	20dBc	Pass

LE CH00 (2402MHz)	LE CH00 (2402MHz)
	
LE CH00 (2402MHz)	**LE CH00 (2402MHz)**
	
LE CH19 (2440MHz)	**LE CH19 (2440MHz)**
	

LE CH19 (2440MHz)	LE CH19 (2440MHz)
	
LE CH39 (2480MHz)	**LE CH39 (2480MHz)**
	
LE CH39 (2480MHz)	**LE CH39 (2480MHz)**
	

7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10 - Section 11.12.2.3 (quasi-peak measurements)

ANSI C63.10 - Section 11.12.2.4 (peak power measurements)

ANSI C63.10 - Section 11.12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW ≥ 1/T

4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode

5. Detector = Peak

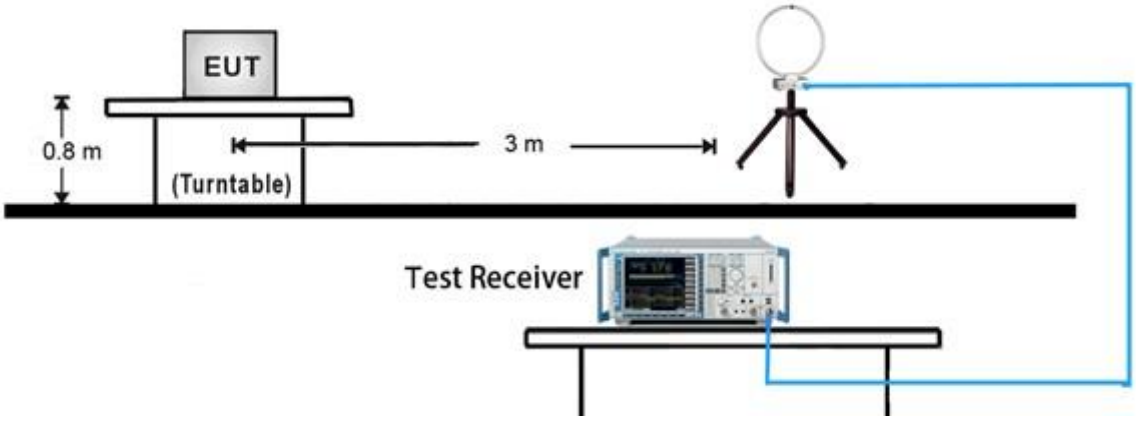
6. Sweep time = auto

7. Trace mode = max hold

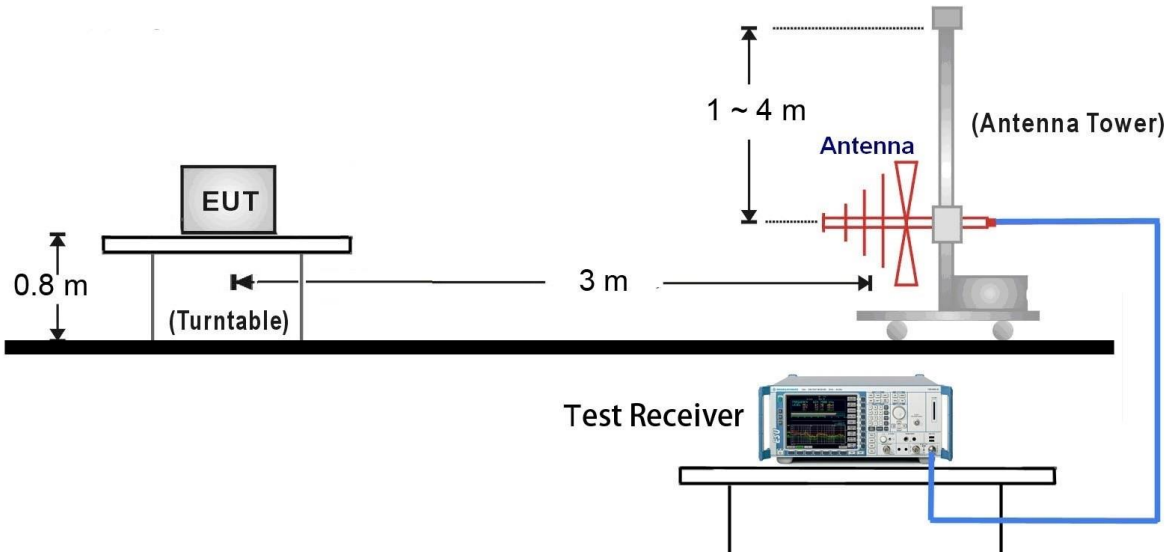
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

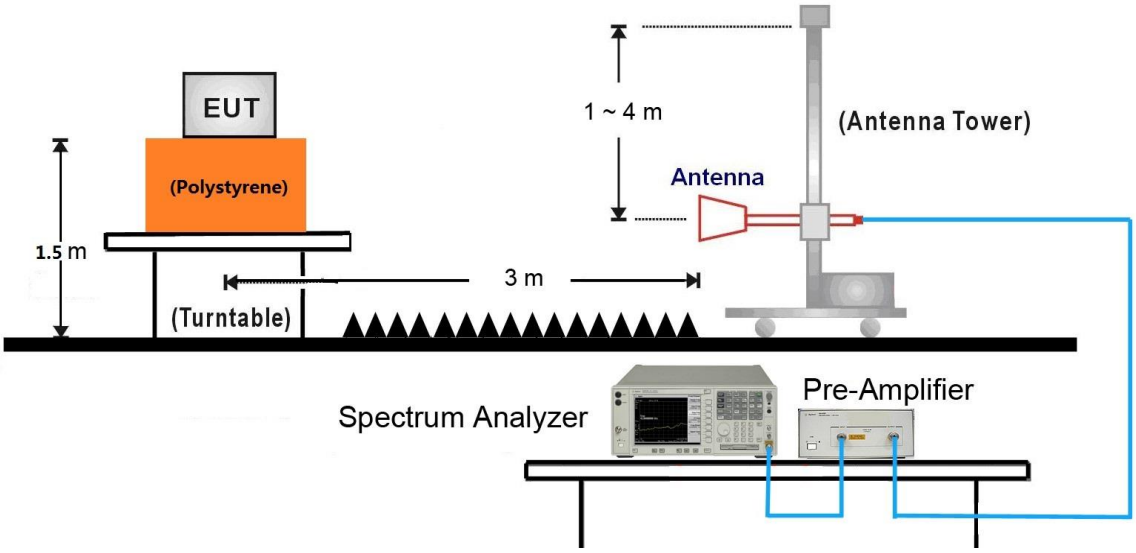
9kHz ~ 30MHz Test Setup:



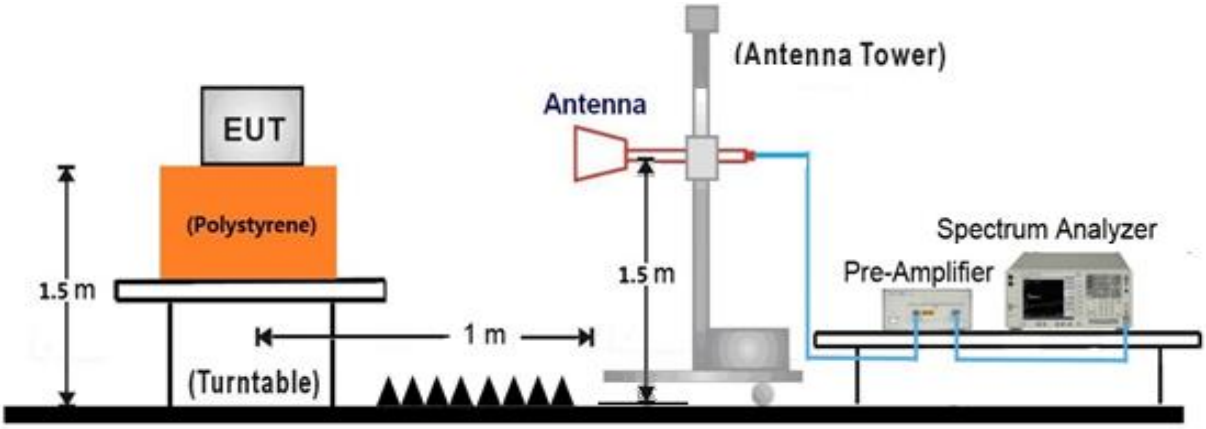
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

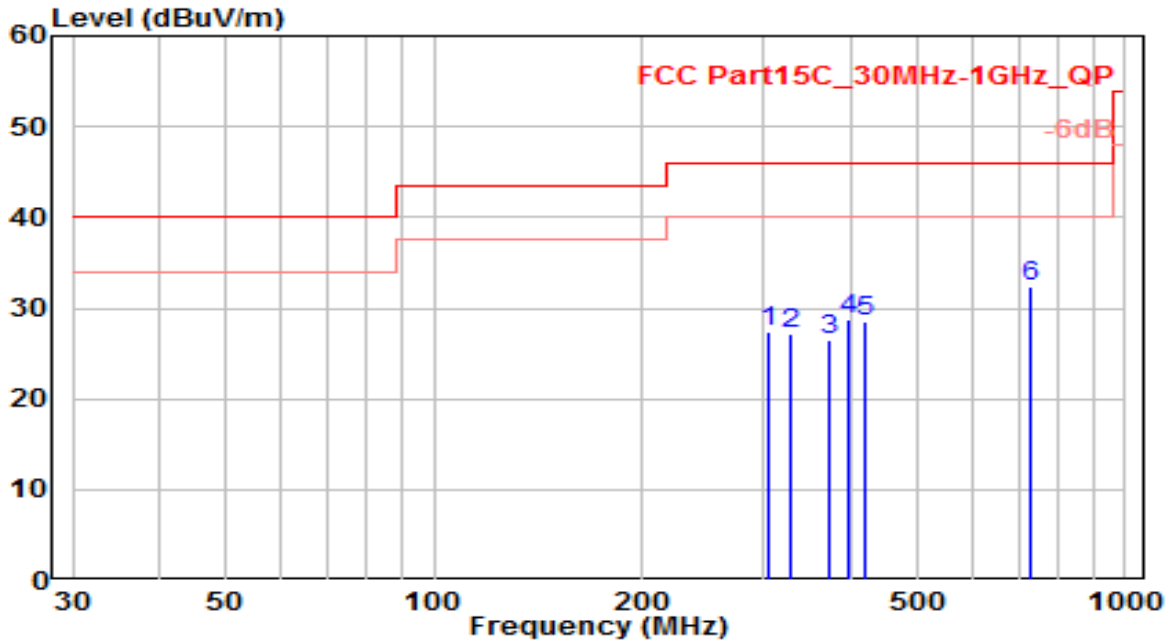


18GHz ~25GHz Test Setup:



7.6.5. Test Result

EUT	GB110/GB100	Date of Test	2021-12-13
Factor	VULB 9162	Temp. / Humidity	22°C /48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Dean
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz

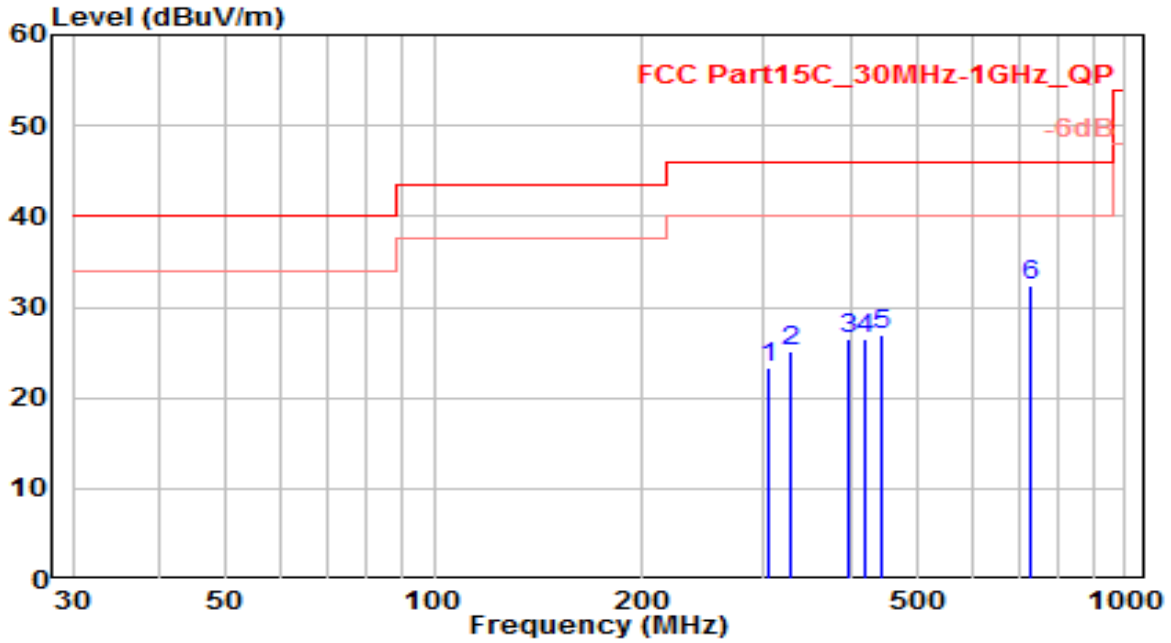


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		303.540	5.83	21.62	27.44	-18.56	46.00	100	60	QP
2		326.820	4.83	22.37	27.20	-18.80	46.00	100	305	QP
3		373.380	2.94	23.66	26.60	-19.40	46.00	100	215	QP
4		396.660	4.66	24.18	28.84	-17.16	46.00	110	300	QP
5		419.940	4.07	24.43	28.50	-17.50	46.00	120	90	QP
6	*	730.340	2.71	29.74	32.45	-13.55	46.00	105	290	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-13
Factor	VULB 9162	Temp. / Humidity	22°C /48%
Polarity	Vertical	Site / Test Engineer	AC1 / Dean
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz

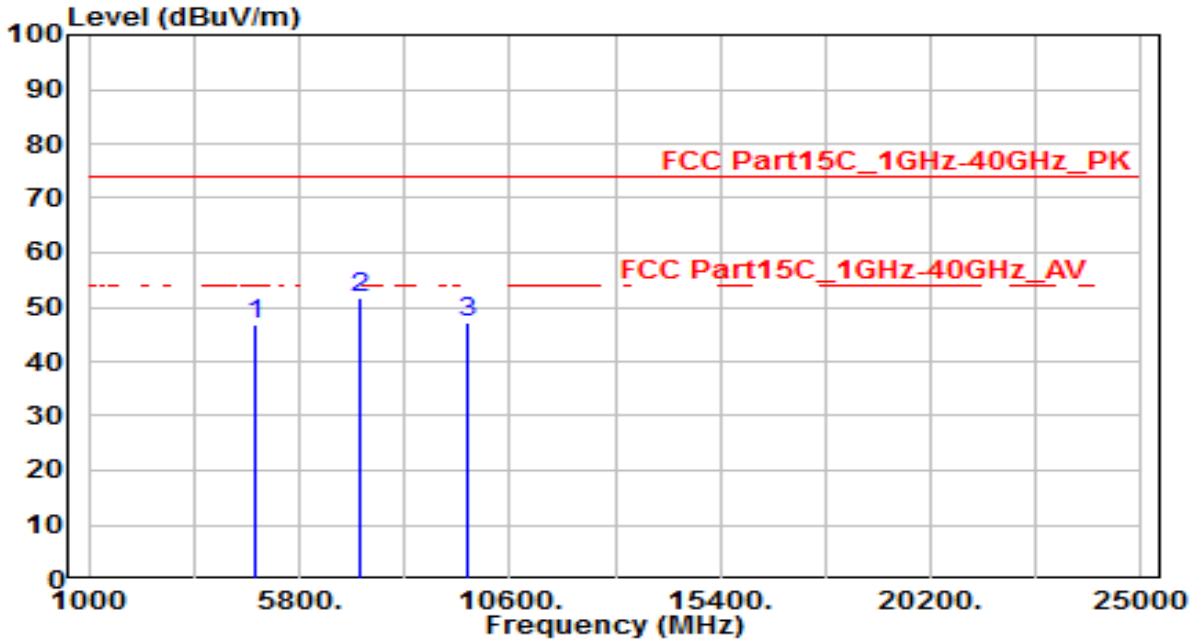


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		303.540	1.70	21.62	23.32	-22.68	46.00	105	130	QP
2		326.820	2.77	22.37	25.15	-20.85	46.00	100	300	QP
3		397.630	2.35	24.21	26.55	-19.45	46.00	120	135	QP
4		420.910	2.02	24.44	26.46	-19.54	46.00	100	150	QP
5		444.190	2.40	24.64	27.04	-18.96	46.00	100	90	QP
6	*	730.340	2.55	29.74	32.29	-13.71	46.00	100	205	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	AC 120V/60Hz

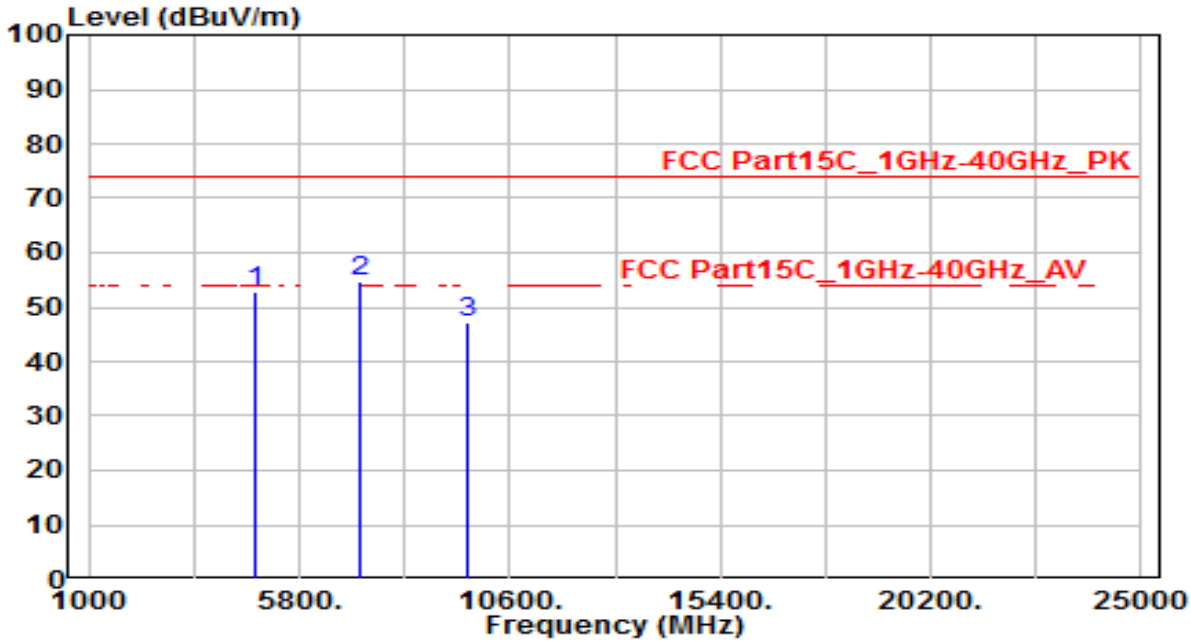


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4804.000	43.16	3.60	46.76	-27.24	74.00	150	360	Peak
2	*	7206.000	40.05	11.71	51.76	-22.24	74.00	150	360	Peak
3		9608.000	31.40	15.90	47.30	-26.70	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Vertical	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	AC 120V/60Hz

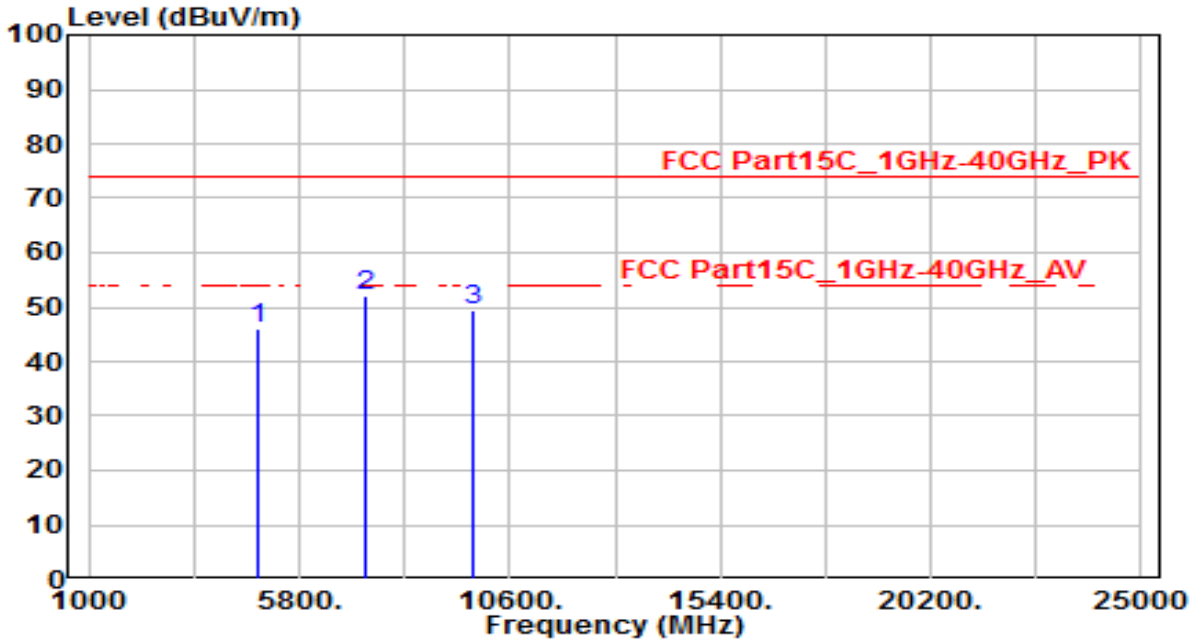


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4804.000	49.07	3.60	52.66	-21.34	74.00	150	360	Peak
2	*	7206.000	43.11	11.71	54.83	-19.17	74.00	150	360	Peak
3		9608.000	31.16	15.90	47.06	-26.94	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz

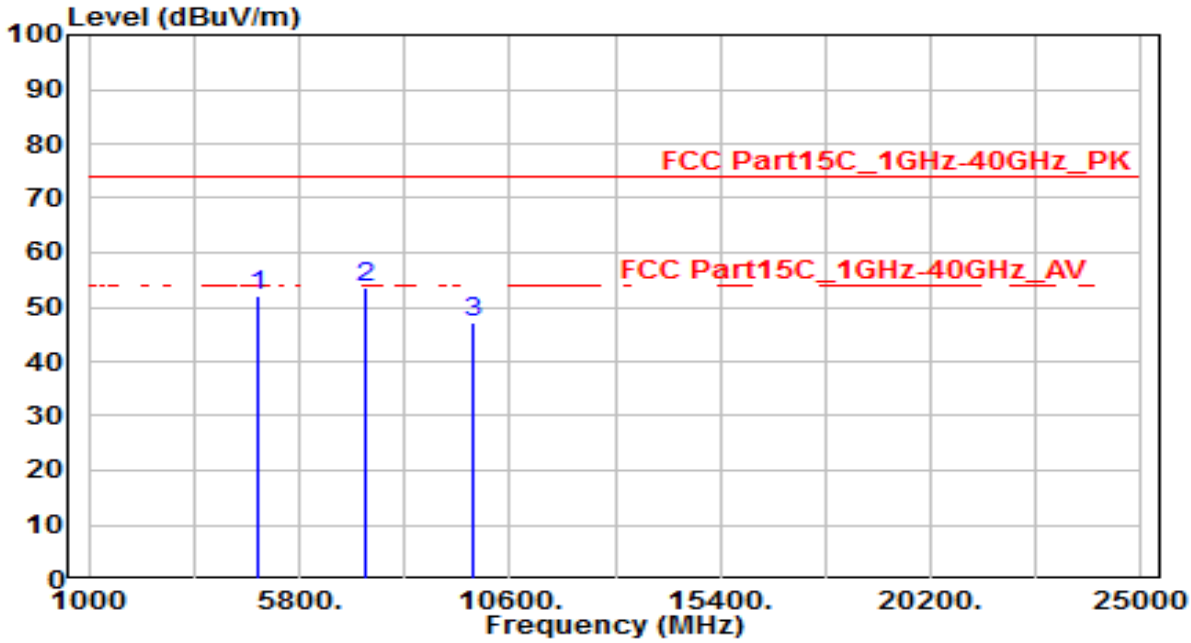


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4880.000	42.40	3.73	46.13	-27.87	74.00	150	360	Peak
2	*	7320.000	39.88	12.22	52.10	-21.90	74.00	150	360	Peak
3		9760.000	33.33	16.16	49.48	-24.52	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Vertical	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz

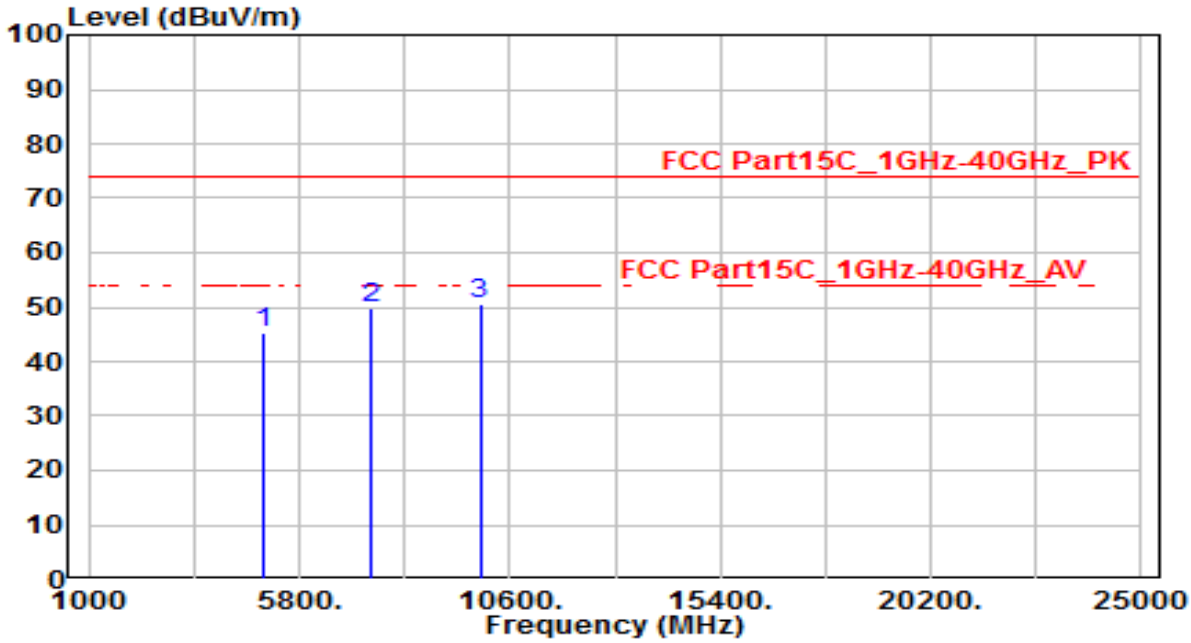


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4880.000	48.39	3.73	52.13	-21.87	74.00	150	360	Peak
2	*	7320.000	41.46	12.22	53.68	-20.32	74.00	150	360	Peak
3		9760.000	31.19	16.16	47.34	-26.66	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	AC 120V/60Hz

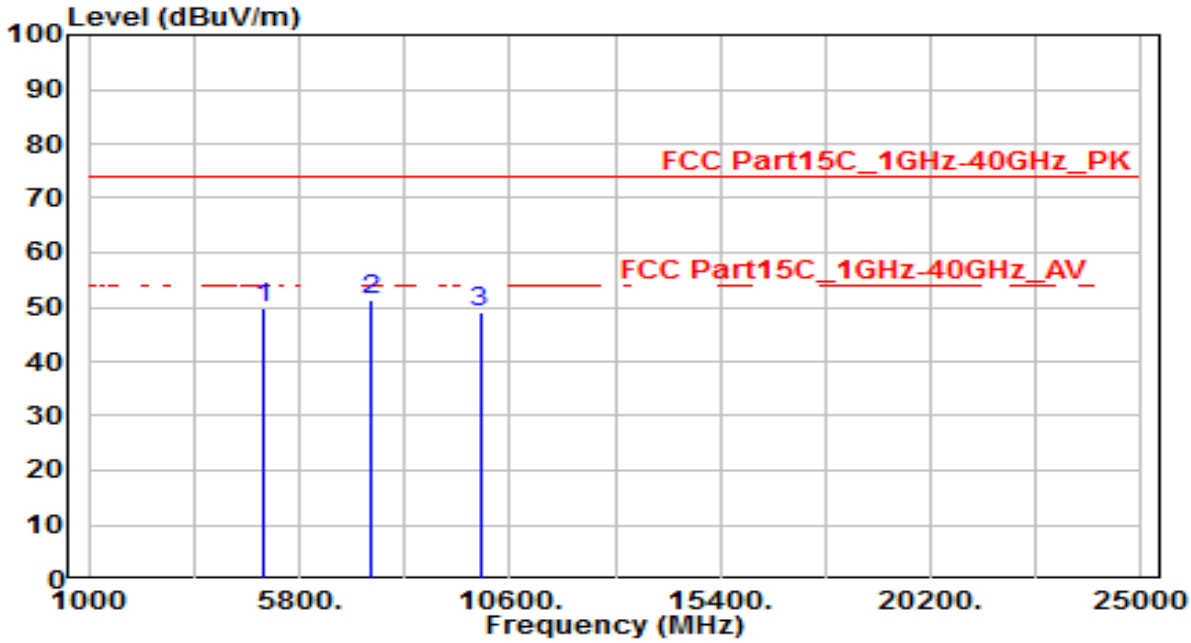


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4960.000	41.40	3.88	45.28	-28.72	74.00	150	360	Peak
2		7440.000	36.94	12.75	49.69	-24.31	74.00	150	360	Peak
3	*	9920.000	33.99	16.43	50.42	-23.58	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Vertical	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	AC 120V/60Hz

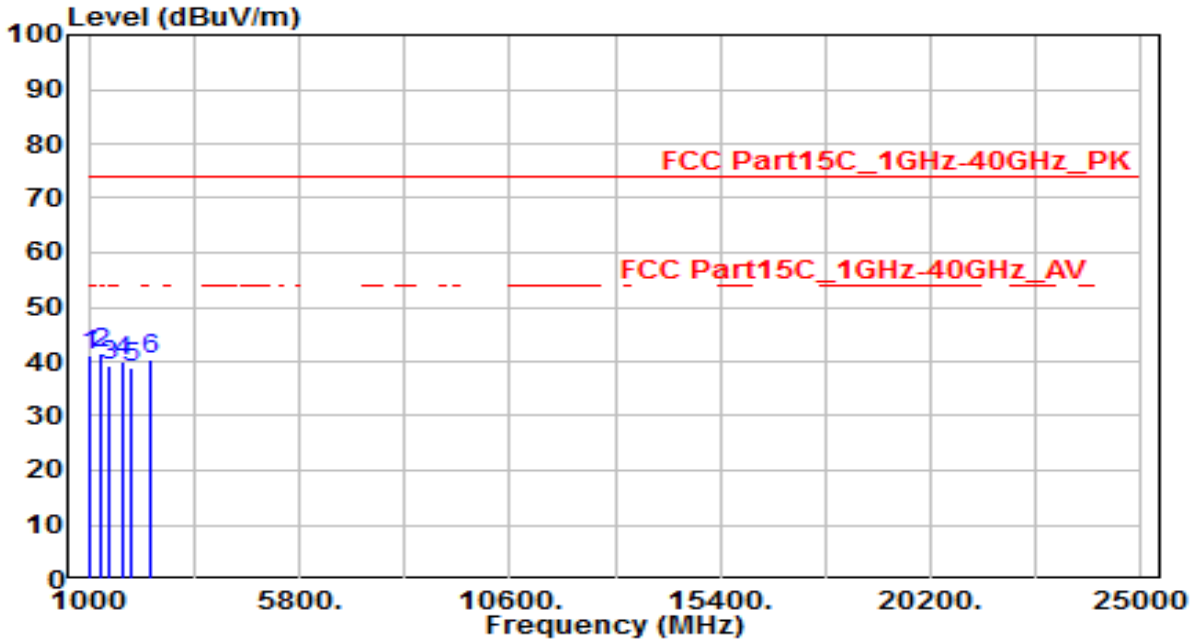


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4960.000	45.82	3.88	49.70	-24.30	74.00	150	360	Peak
2	*	7440.000	38.39	12.75	51.14	-22.86	74.00	150	360	Peak
3		9920.000	32.75	16.43	49.18	-24.82	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_RX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz

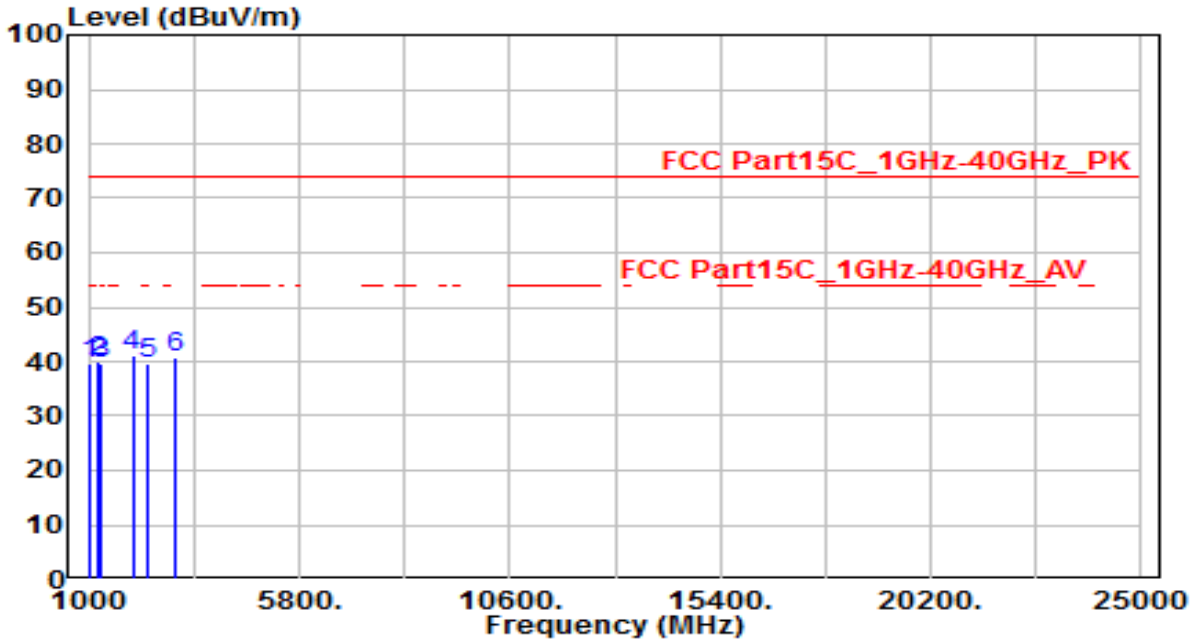


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		1037.719	47.79	-6.51	41.27	-32.73	74.00	150	360	Peak
2	*	1293.781	47.14	-5.58	41.56	-32.44	74.00	150	360	Peak
3		1465.906	44.29	-4.95	39.33	-34.67	74.00	150	360	Peak
4		1800.063	43.89	-4.04	39.84	-34.16	74.00	150	360	Peak
5		1995.563	42.23	-3.53	38.70	-35.30	74.00	150	360	Peak
6		2395.063	42.56	-2.02	40.54	-33.46	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	22°C /48%
Polarity	Vertical	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_RX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		1043.563	46.26	-6.49	39.77	-34.23	74.00	150	360	Peak
2		1200.281	45.82	-5.92	39.90	-34.10	74.00	150	360	Peak
3		1292.188	45.35	-5.59	39.76	-34.24	74.00	150	360	Peak
4	*	1998.219	44.47	-3.52	40.95	-33.05	74.00	150	360	Peak
5		2356.281	41.82	-2.17	39.65	-34.35	74.00	150	360	Peak
6		2991.125	42.37	-1.73	40.65	-33.35	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.13

7.7.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 * RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

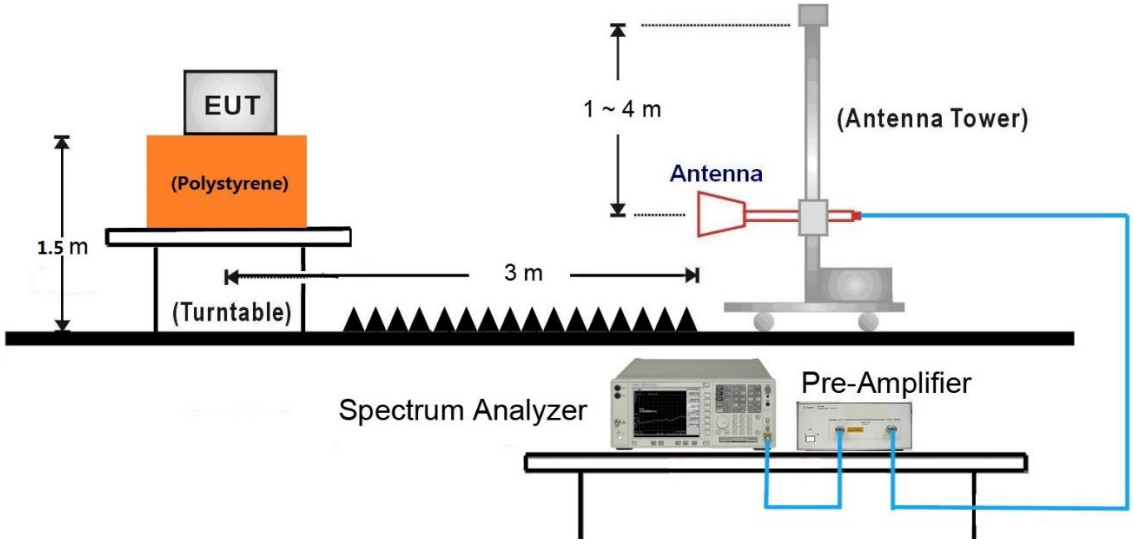
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

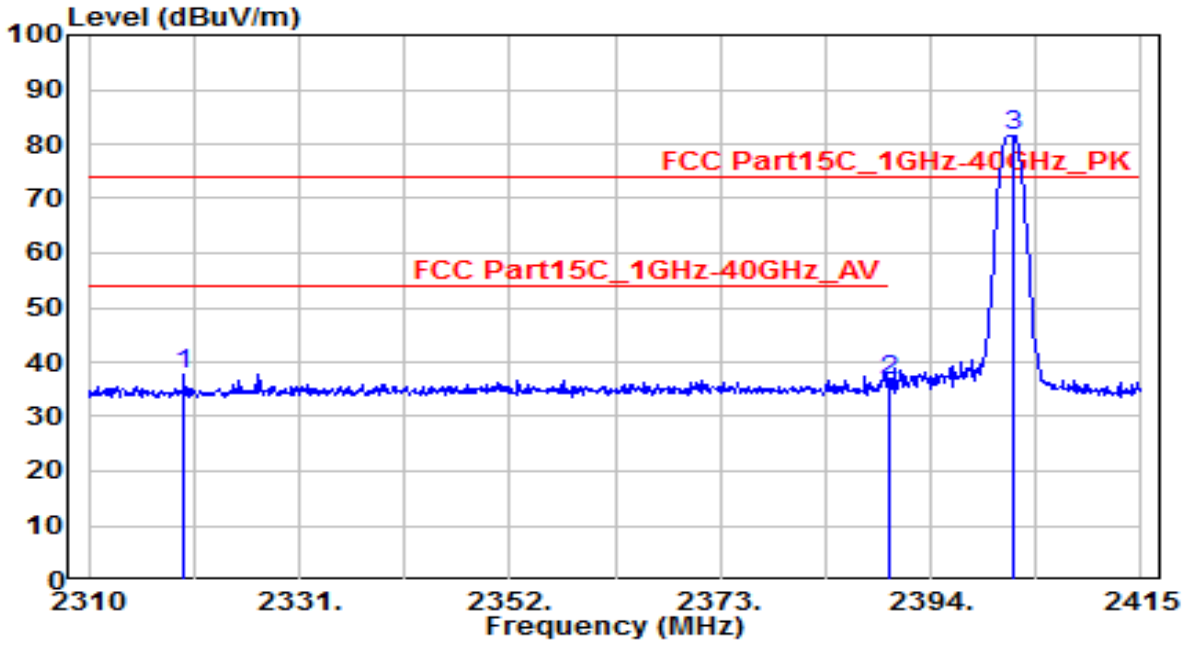
7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



7.7.5. Test Result

EUT	GB110/GB100	Date of Test	2021-12-01
Factor	BBHA 9120D	Temp. / Humidity	22°C /48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	AC 120V/60Hz

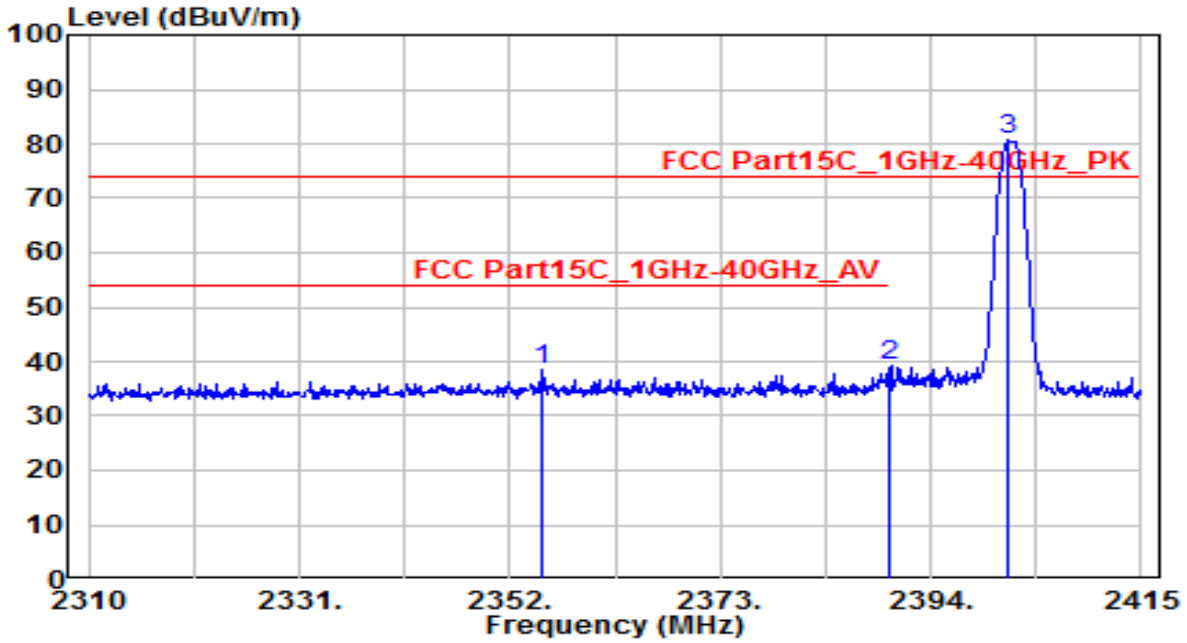


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2319.555	40.17	-2.31	37.86	-36.14	74.00	305	75	Peak
2		2390.000	38.60	-2.04	36.56	-37.44	74.00	305	75	Peak
3		2402.295	83.59	-1.99	81.60	N/A	N/A	305	75	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-01
Factor	BBHA 9120D	Temp. / Humidity	22°C /48%
Polarity	Vertical	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	AC 120V/60Hz

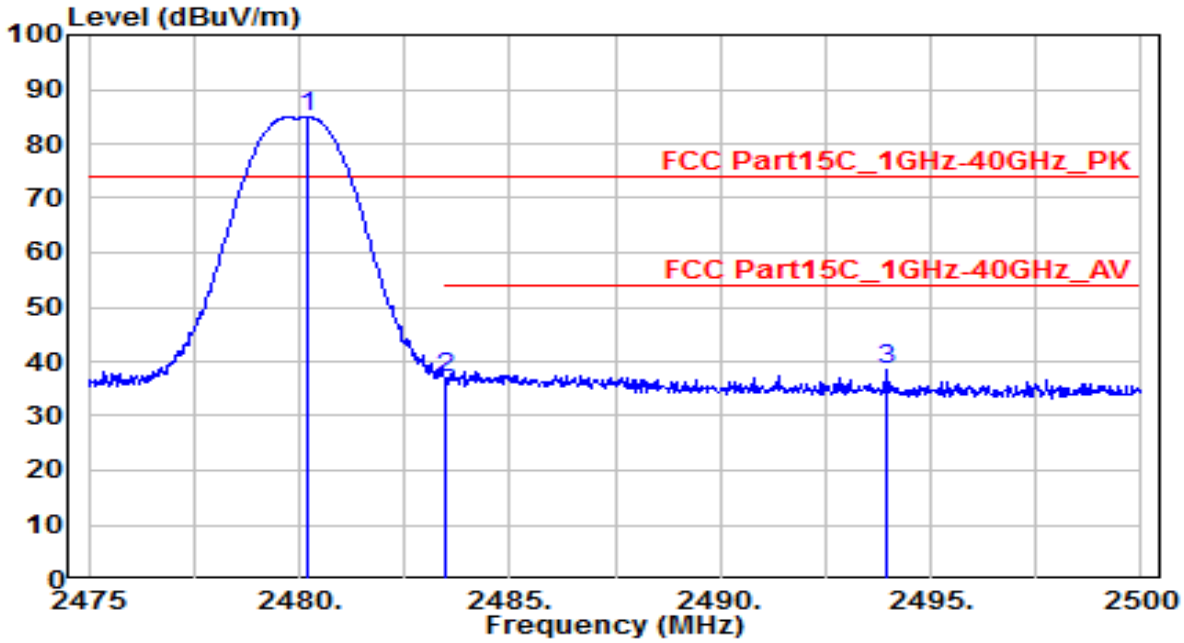


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2355.255	40.56	-2.17	38.39	-35.61	74.00	155	10	Peak
2	*	2390.000	41.44	-2.04	39.41	-34.59	74.00	155	10	Peak
3		2401.770	82.58	-1.99	80.59	N/A	N/A	155	10	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-01
Factor	BBHA 9120D	Temp. / Humidity	22°C /48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	AC 120V/60Hz

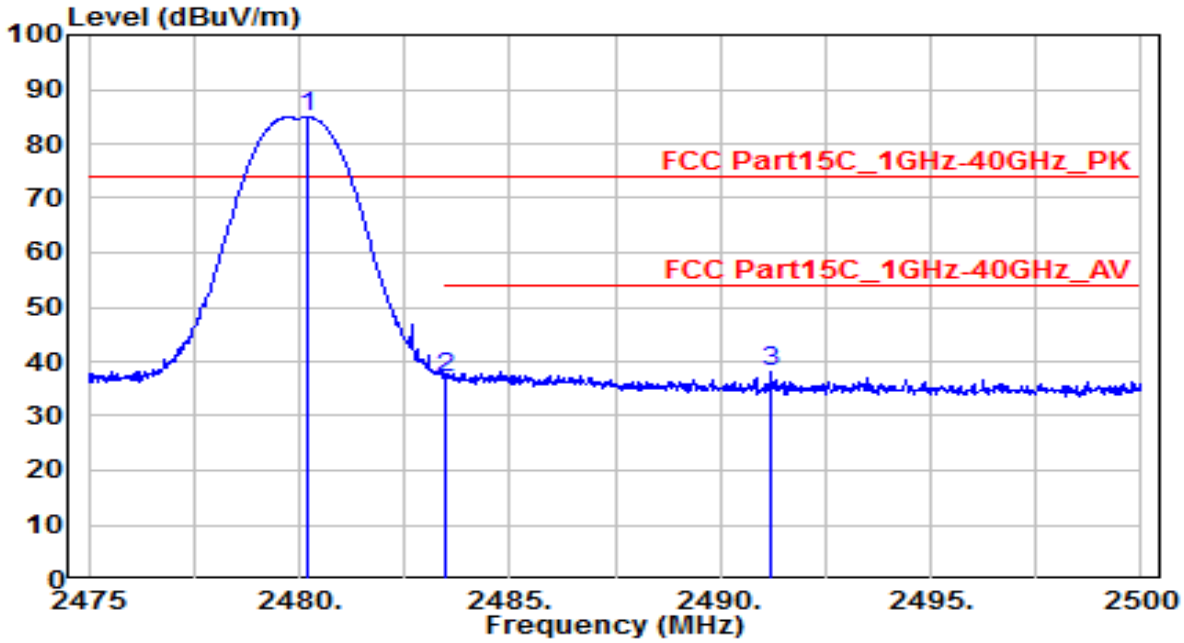


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2480.200	86.55	-1.70	84.85	N/A	N/A	310	65	Peak
2		2483.500	38.55	-1.68	36.86	-37.14	74.00	310	65	Peak
3	*	2493.925	40.08	-1.64	38.44	-35.56	74.00	310	65	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	GB110/GB100	Date of Test	2021-12-01
Factor	BBHA 9120D	Temp. / Humidity	22°C /48%
Polarity	Vertical	Site / Test Engineer	AC1 / Volvo
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2480.225	86.50	-1.70	84.80	N/A	N/A	125	90	Peak
2		2483.500	38.61	-1.68	36.93	-37.07	74.00	125	90	Peak
3	*	2491.225	39.88	-1.65	38.22	-35.78	74.00	125	90	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.8. AC Conducted Emissions Measurement

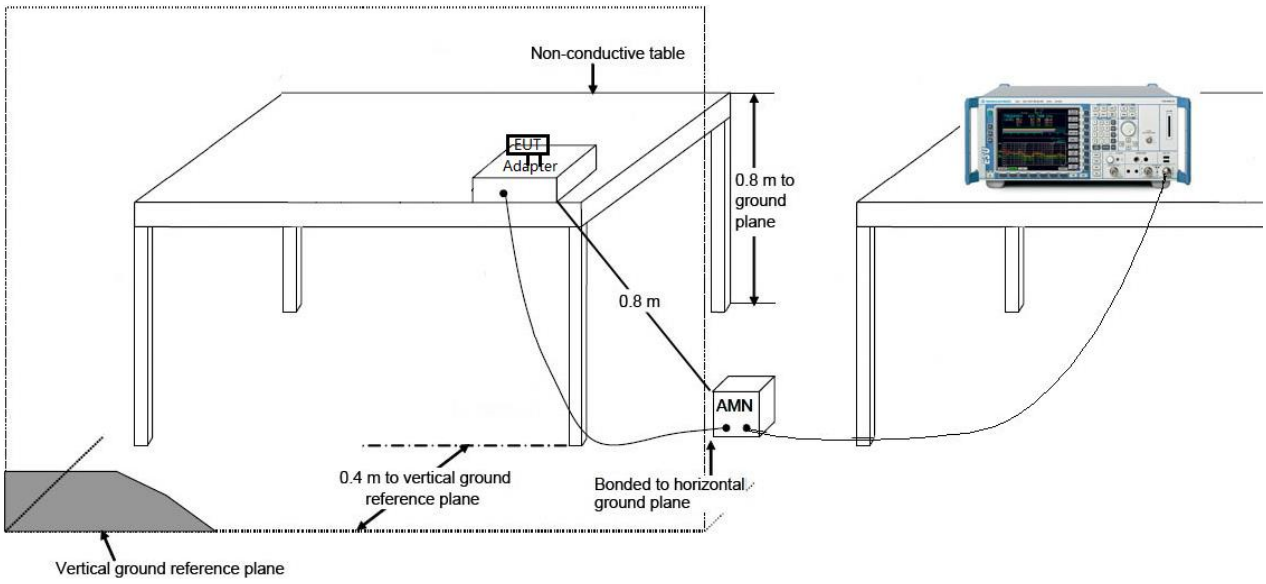
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

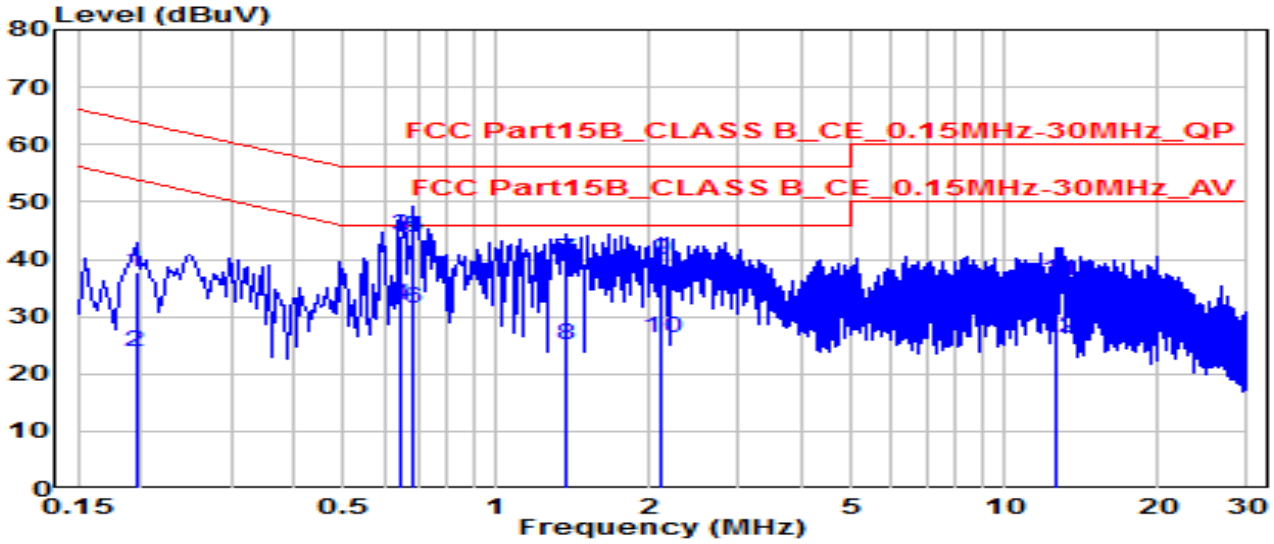
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	24.2°C /48%
Polarity	Line1	Site / Test Engineer	SR2 / Dean
Test Mode	BLE_TX_1Mbps_CH19	Test Voltage	AC 120V/60Hz

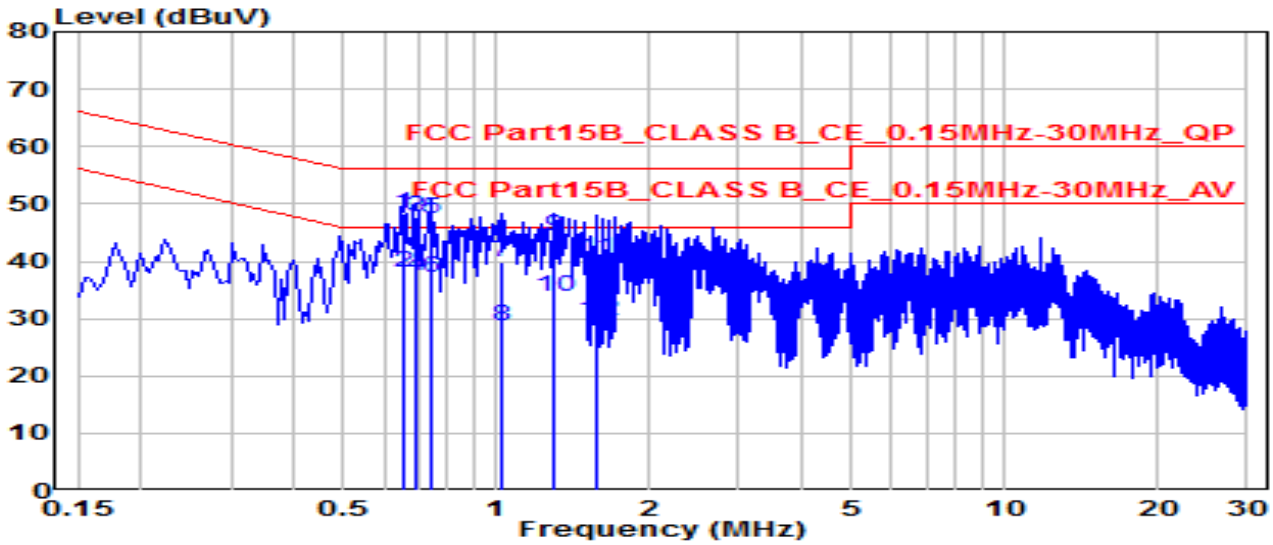


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		0.195	28.23	9.61	37.85	-25.98	63.82	QP
2		0.195	14.19	9.61	23.80	-30.02	53.82	Average
3	*	0.645	34.43	9.64	44.07	-11.93	56.00	QP
4	*	0.645	22.39	9.64	32.03	-13.97	46.00	Average
5		0.685	34.17	9.64	43.81	-12.19	56.00	QP
6		0.685	21.65	9.64	31.29	-14.71	46.00	Average
7		1.378	30.20	9.67	39.87	-16.13	56.00	QP
8		1.378	15.42	9.67	25.09	-20.91	46.00	Average
9		2.107	30.10	9.69	39.79	-16.21	56.00	QP
10		2.107	16.64	9.69	26.33	-19.67	46.00	Average
11		12.704	26.32	9.90	36.21	-23.79	60.00	QP
12		12.704	16.31	9.90	26.20	-23.80	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24.2°C /48%
Polarity	Neutral	Site / Test Engineer	SR2 / Dean
Test Mode	BLE_TX_1Mbps_CH19	Test Voltage	AC 120V/60Hz

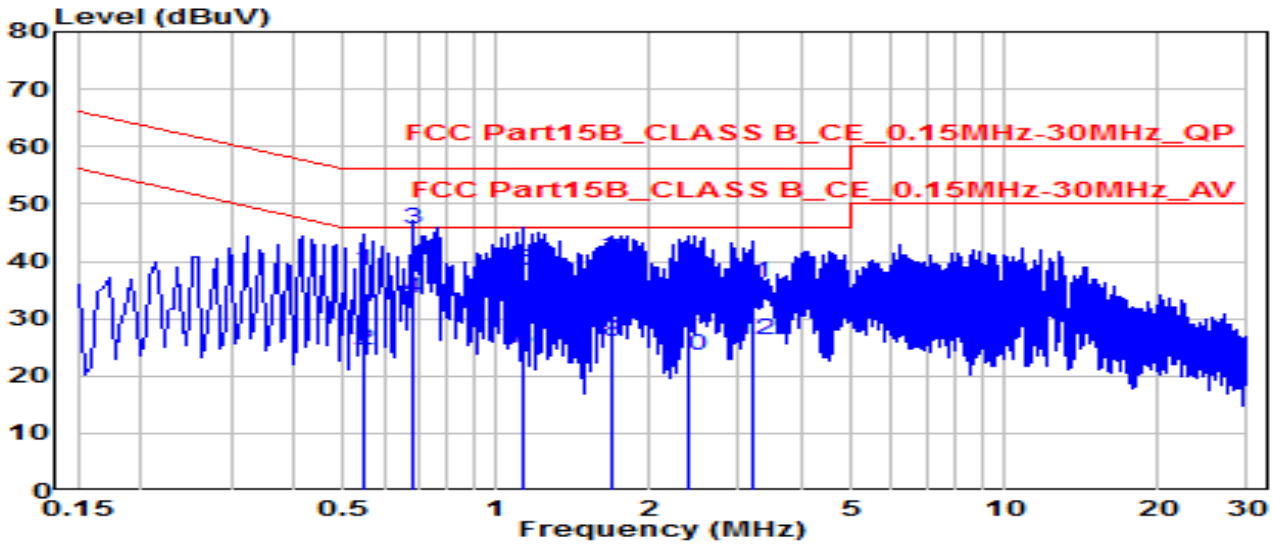


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.654	38.71	9.64	48.36	-7.64	56.00	QP
2	*	0.654	28.43	9.64	38.07	-7.93	46.00	Average
3		0.694	37.94	9.65	47.59	-8.41	56.00	QP
4		0.694	27.84	9.65	37.49	-8.51	46.00	Average
5		0.739	37.76	9.65	47.41	-8.59	56.00	QP
6		0.739	27.49	9.65	37.14	-8.86	46.00	Average
7		1.023	30.22	9.67	39.89	-16.11	56.00	QP
8		1.023	18.94	9.67	28.61	-17.39	46.00	Average
9		1.302	34.77	9.68	44.45	-11.55	56.00	QP
10		1.302	24.23	9.68	33.90	-12.10	46.00	Average
11		1.567	30.79	9.68	40.47	-15.53	56.00	QP
12		1.567	19.75	9.68	29.43	-16.57	46.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	24.2°C /48%
Polarity	Line1	Site / Test Engineer	SR2 / Dean
Test Mode	BLE_TX_1Mbps_CH19	Test Voltage	AC 240V/60Hz

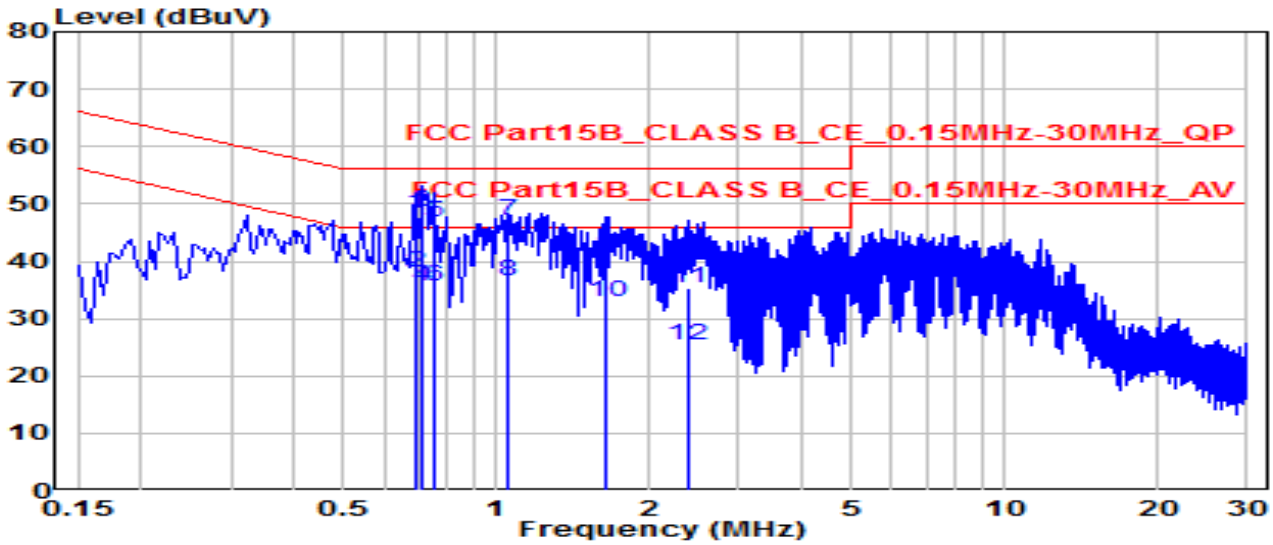


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		0.550	28.81	9.63	38.44	-17.56	56.00	QP
2		0.550	14.77	9.63	24.40	-21.60	46.00	Average
3	*	0.685	35.84	9.64	45.48	-10.52	56.00	QP
4	*	0.685	23.76	9.64	33.40	-12.60	46.00	Average
5		1.135	28.74	9.66	38.40	-17.60	56.00	QP
6		1.135	14.92	9.66	24.58	-21.42	46.00	Average
7		1.684	30.36	9.68	40.04	-15.96	56.00	QP
8		1.684	16.28	9.68	25.96	-20.04	46.00	Average
9		2.373	28.34	9.70	38.04	-17.96	56.00	QP
10		2.373	14.00	9.70	23.69	-22.31	46.00	Average
11		3.183	26.54	9.71	36.25	-19.75	56.00	QP
12		3.183	16.70	9.71	26.41	-19.59	46.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	GB110/GB100	Date of Test	2021-12-02
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24.2°C /48%
Polarity	Neutral	Site / Test Engineer	SR2 / Dean
Test Mode	BLE_TX_1Mbps_CH19	Test Voltage	AC 240V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		0.690	38.79	9.65	48.44	-7.56	56.00	QP
2		0.690	28.46	9.65	38.10	-7.90	46.00	Average
3	*	0.717	38.92	9.65	48.57	-7.43	56.00	QP
4	*	0.717	25.90	9.65	35.55	-10.45	46.00	Average
5		0.753	37.19	9.65	46.85	-9.15	56.00	QP
6		0.753	26.08	9.65	35.73	-10.27	46.00	Average
7		1.059	37.35	9.67	47.02	-8.98	56.00	QP
8		1.059	26.87	9.67	36.54	-9.46	46.00	Average
9		1.648	31.29	9.68	40.97	-15.03	56.00	QP
10		1.648	23.34	9.68	33.02	-12.98	46.00	Average
11		2.373	25.69	9.70	35.38	-20.62	56.00	QP
12		2.373	15.54	9.70	25.24	-20.76	46.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **GB100** is in compliance with Part 15C of the FCC Rules.

The End