



MEASUREMENT REPORT (C2PC for FCC)

FCC ID : WIYSLM500QA
Applicant : CASTLES TECHNOLOGY CO., LTD.
Application Type : Certification
Product : Smart module
Model No. : SLM500
Brand Name : 
FCC Classification : (DTS) Digital Transmission System
FCC Rule Part(s) : Part 15.247
Test Procedure(s) : ANSI C63.10-2013
Received Date : October 24, 2023
Test Date : October 26~ November 30, 2023

Tested By : 
(Owen Tsai)
Reviewed By : 
(Paddy Chen)
Approved By : 
(Chenz Ker)



The test results only relate to the tested samples.

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
2310TW8705-U5	1.0	Original Report	2024-01-15	

Note:

1. This time, add Host ((Product Name: POS Terminal, Model No.: S1L2) and new antennas have been added, which have a higher gain compared to the original antennas., so the FCC C2PC (Conducted Output Power, Spurious Emission & Band Edge, Conduction) is executed.
2. FCC Original Report Grant Date: 02/15/2022, FCC ID: WIYSLM500QA.

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§2.1033 General Information

Applicant	CASTLES TECHNOLOGY CO., LTD.
Applicant Address	6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231632, TAIWAN (R. O. C.)
Manufacturer	CASTLES TECHNOLOGY CO., LTD.
Manufacturer Address	6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231632, 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.	#1-1 ☐ 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 Canada, EU and TELEC Rules.

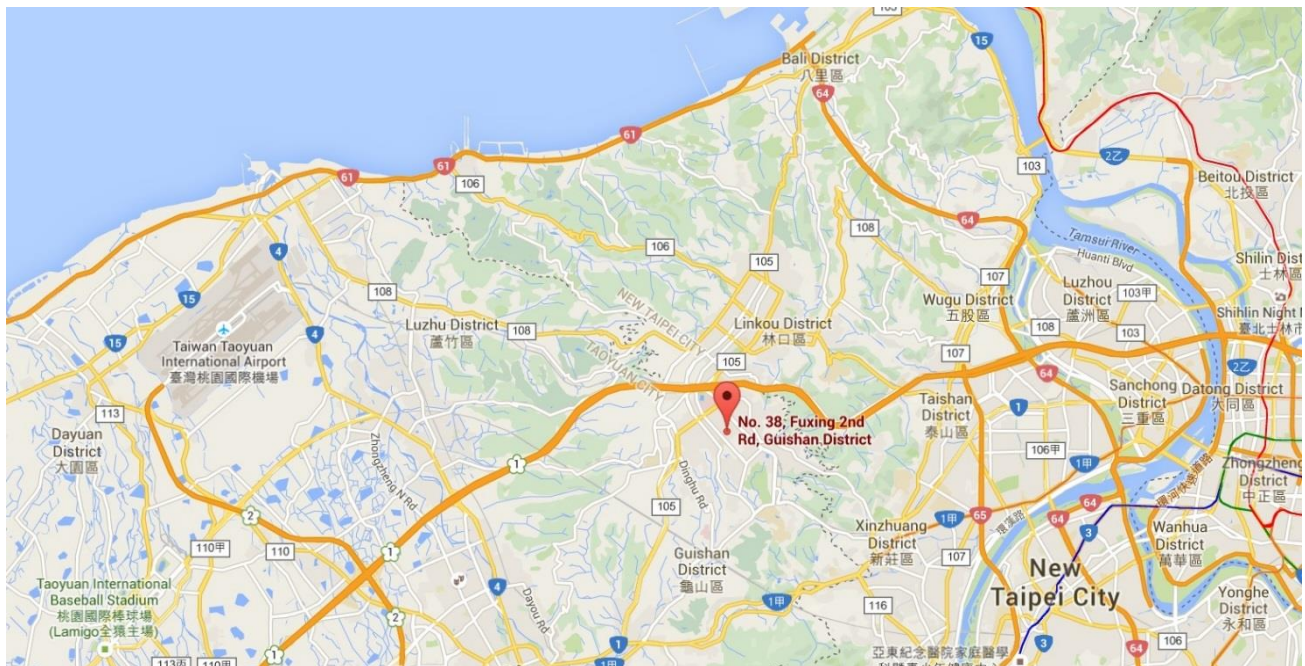
1. INTRODUCTION

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	Smart module
Model No.	SLM500
Brand Name	
Supports Radios Spec.	WLAN: 2.4G: 802.11b/g/n-20/n-40 5G: 802.11a/n-20/n-40, Band 1,2,3,4 WPAN: Bluetooth Dual Mode: V4.2 NFC 13.56MHz WWAN: 2G: GPRS 850 / EGPRS 850 / GPRS 1900 / EGPRS 1900 3G: Band 2, 4, 5 4G: Band 2, 4, 5, 7, 12, 13, 17, 25, 26, 66
Wi-Fi Specification	802.11b/g/n (1TX / 1RX)
Frequency Range	2.4GHz: For 802.11b/g/n-HT20: 2412 ~ 2462 MHz For 802.1n-HT40: 2422 ~ 2452 MHz
Type of Modulation	802.11b: DSSS, DBPSK, DQPSK, CCK 802.11g/n-HT20: OFDM, BPSK, QPSK, 16QAM, 64QAM
Accessory	
Power Adapter	MFR: Shenzhen ABP Technology Co.,Ltd. Model No: AD0181-1201000UC Input: AC 100-240V~50-60Hz,0.5A Max Output: DC 12.0V, 1.0A 12.0w Cable Out: Non-shielding, 1.5m

2.2. Working Frequencies for this Report

802.11b/g/n-HT20

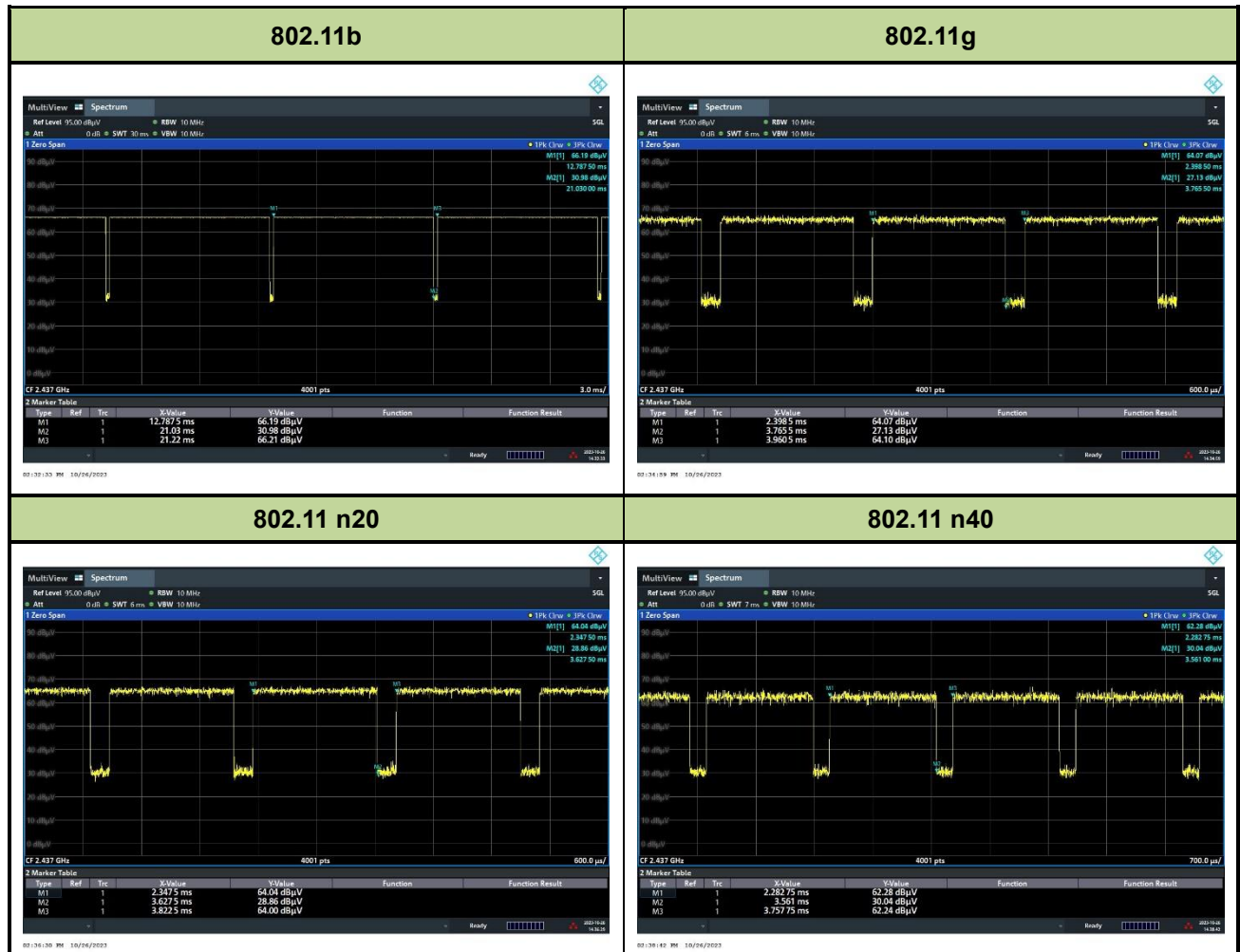
Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

Duty Cycle

Test Mode	Duty Cycle
802.11b	97.75%
802.11g	87.52%
802.11 n-HT20	86.78%
802.11 n-HT40	86.66%



2.3. Test Mode

Test Mode	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n-HT20
	Mode 4: Transmit by 802.11n-HT40

Note :

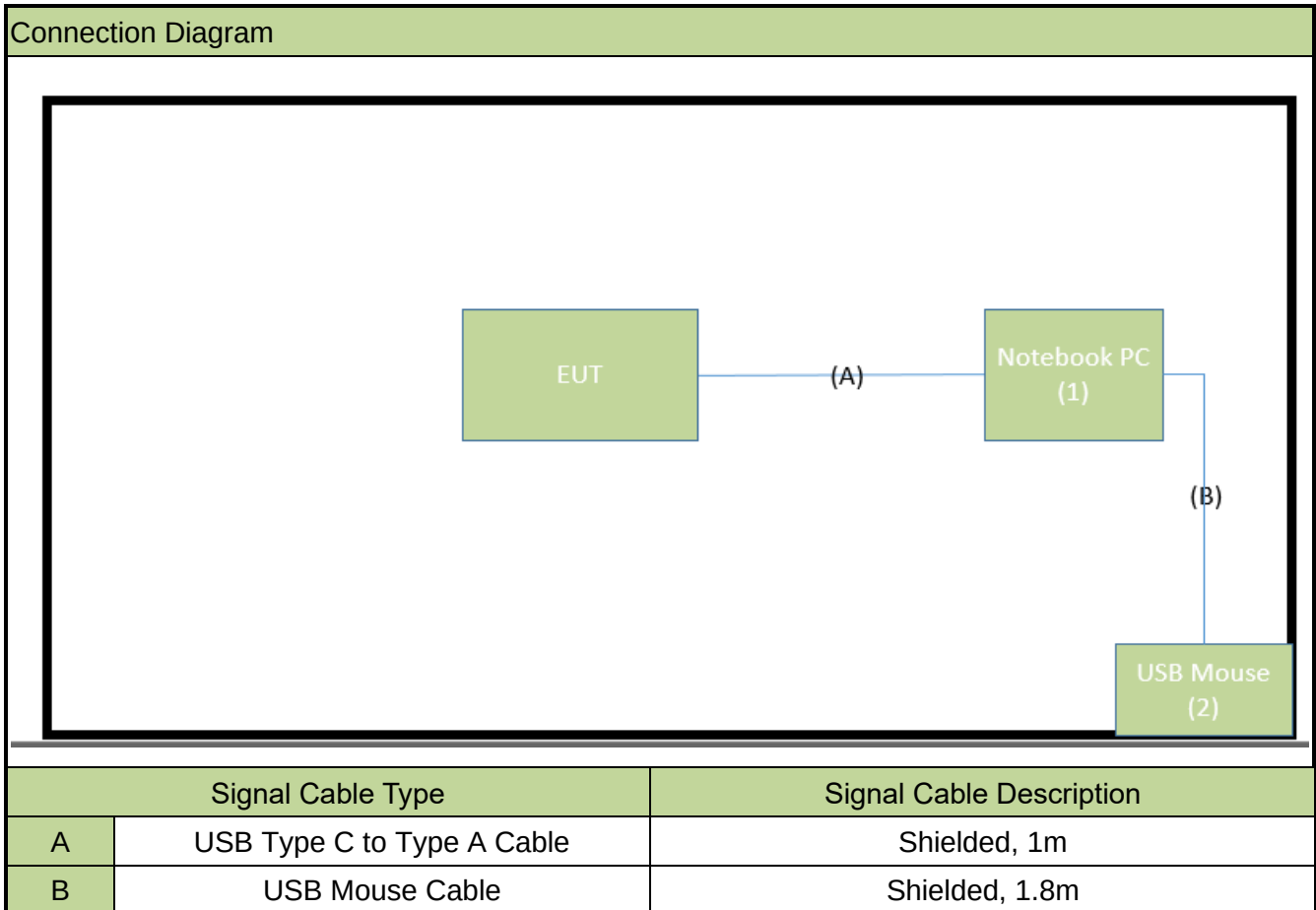
1. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.

2.4. Test Software

The test utility software used during testing was “QRCT v3.0-00233”.

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 System Details

The types for all equipment, and descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	21DH00A3TW	N/A	Non-shielded, 0.8m
2	USB Mouse	Logitech	M90	N/A	N/A

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 D01v05 were used in the measurement of the device.

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, 50 Ω /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 Smart module, 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	Antenna Gain (dBi)		
				BT/BLE	Wi-Fi 2.4G	Wi-Fi 5G
1	ARISTOTLE (This time new addition)	RFA-25-AP217-70W-130	Dipole	3.34	3.34	3.64

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	MRTTWA00019	1 year	2024/3/7
Cable	Rosnol	N1C50-RG400- B1C50-500CM	MRTTWE00013	1 year	2024/6/15
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2024/3/8

Radiated Emissions – AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2024/5/22
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2024/10/31
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2024/5/17
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2024/5/17
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2024/3/20
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2024/3/27
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2024/3/8
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2024/6/29
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2024/6/26
Cable	HUBERSUHNER	EMC105-NM- NM-3000	MRTTWE00035	1 year	2024/6/26

Conducted Test Equipment – SR6

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2024/10/17
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2024/7/19
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2024/3/16

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% ($U=2U_c(y)$): 0.15MHz~30MHz: $\pm 2.53\text{dB}$
Conducted Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
Radiated Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz~30MHz: $\pm 3.92\text{dB}$ 30MHz~1GHz: $\pm 4.25\text{dB}$ 1GHz~18GHz: $\pm 4.40\text{dB}$ 18GHz~40GHz: $\pm 4.45\text{dB}$

7. TEST RESULT

7.1. Summary

Product Name: POS Terminal

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	$\geq 500\text{kHz}$	Conducted	N/A	Section 7.2
15.247(b)(3)	Output Power	$\leq 30.00\text{dBm}$		Pass	Section 7.3
15.247(e)	Power Spectral Density	$\leq 8.00\text{dBm}/3\text{kHz}$		N/A	Section 7.4
15.247(d)	Out-of-Band Emissions	Conducted $\geq 20\text{dBc}$		N/A	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	$\leq 74\text{dBuV/m(Peak)}$ $\leq 54\text{dBuV/m(Average)}$		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. 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.

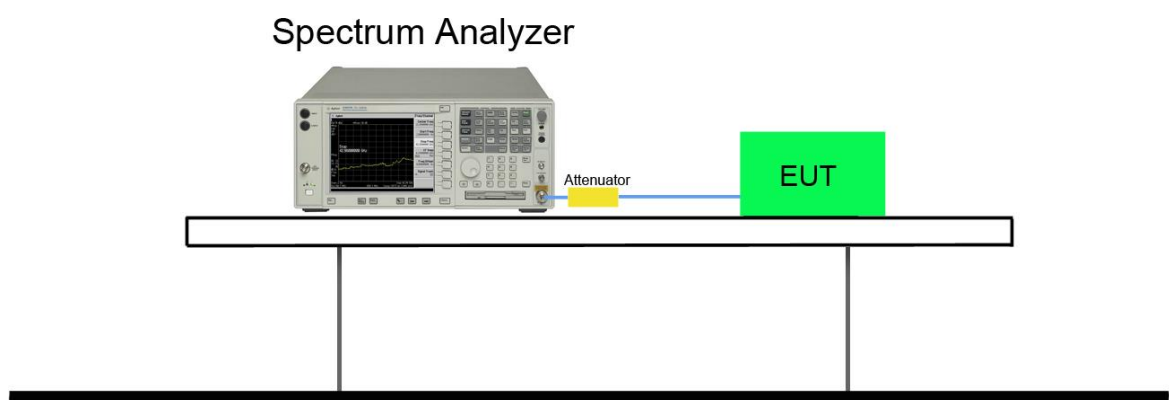
7.2.2. Test Procedure used

KDB 558074 D01v05- 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. $VBW \geq 3 \times RBW$
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

Note: Reference Original Report Grant Date: 02/15/2022, FCC ID: WIYSLM500QA.

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 D01v05 - Section 9.1.2 & 9.2.3.2

7.3.3. Test Setting

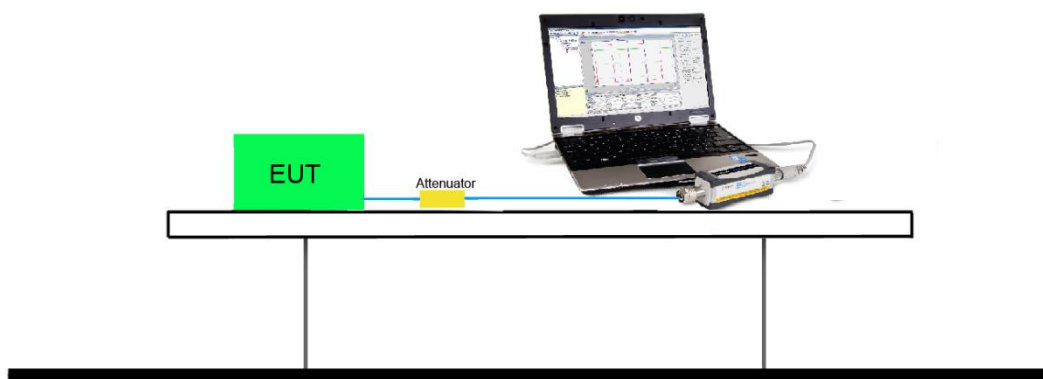
Peak Power Measurement

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	Data Rate/ MCS	Channel No.	Freq. (MHz)	Peak Power (dBm)	Limit (dBm)	Result
802.11b	1Mbps	01	2412	17.33	≤ 30.00	Pass
802.11b	1Mbps	06	2437	17.24	≤ 30.00	Pass
802.11b	1Mbps	11	2462	17.49	≤ 30.00	Pass
802.11g	6Mbps	01	2412	17.25	≤ 30.00	Pass
802.11g	6Mbps	06	2437	17.46	≤ 30.00	Pass
802.11g	6Mbps	11	2462	17.53	≤ 30.00	Pass
802.11n-HT20	MCS0	01	2412	17.50	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	17.63	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	17.66	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	17.32	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	17.55	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	17.83	≤ 30.00	Pass

Note:

Peak Power (dBm)= Peak Power (dBm) + Cable Loss (dB).

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

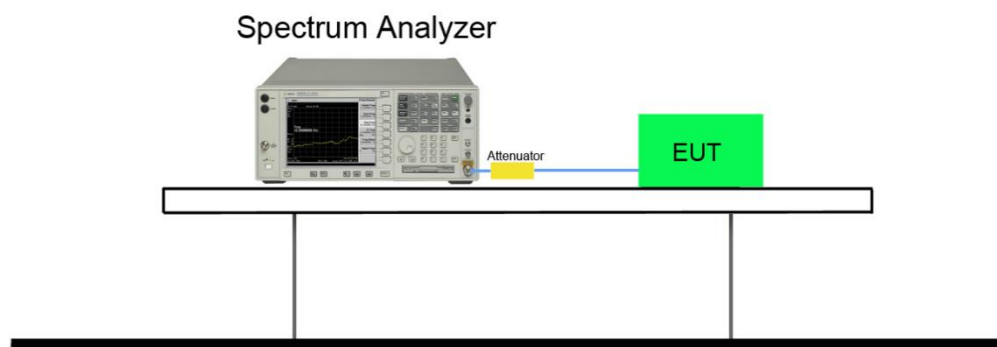
KDB 558074 D01v05 - Section 10.2 Method PKPSD

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 $\geq 3 \times$ 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

Note: Reference Original Report Grant Date: 02/15/2022, FCC ID: WIYSLM500QA.

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.

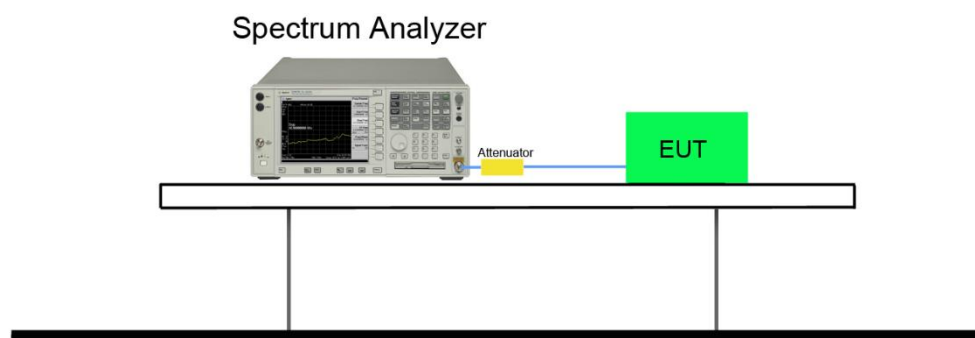
7.5.2. Test Procedure Used

KDB 558074 D01v05- Section 11.1 & 11.2

7.5.3. Test Settling

- (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 $\geq 3 \times$ 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

Note: Reference Original Report Grant Date: 02/15/2022, FCC ID: WIYSLM500QA.

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

KDB 558074 D01v05- Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v05- Section 12.2.4 (peak power measurements)

KDB 558074 D01v05- Section 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 $\geq 1/T$

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

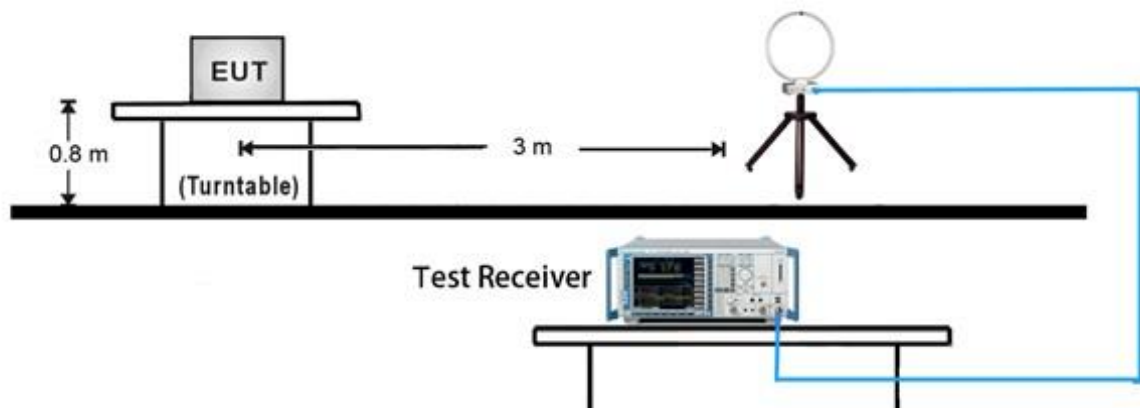
6. Sweep time = auto

7. Trace mode = max hold

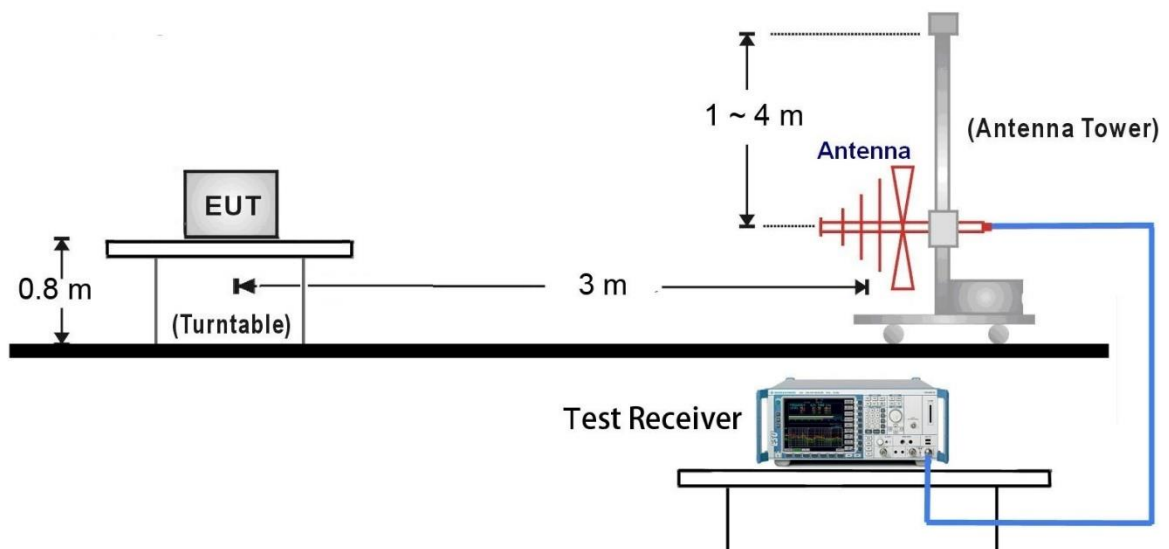
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

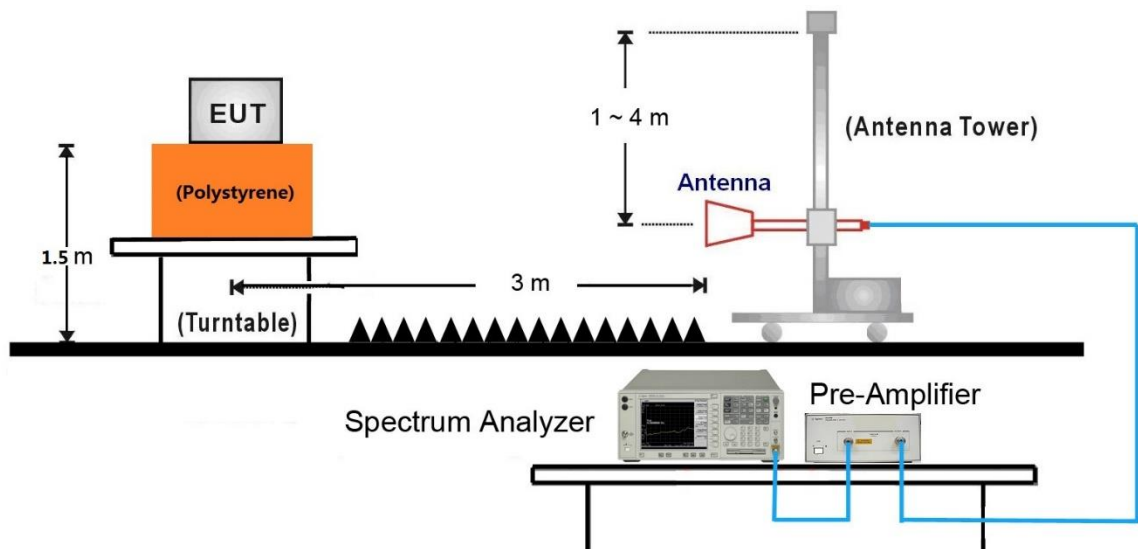
9kHz ~ 30MHz Test Setup:



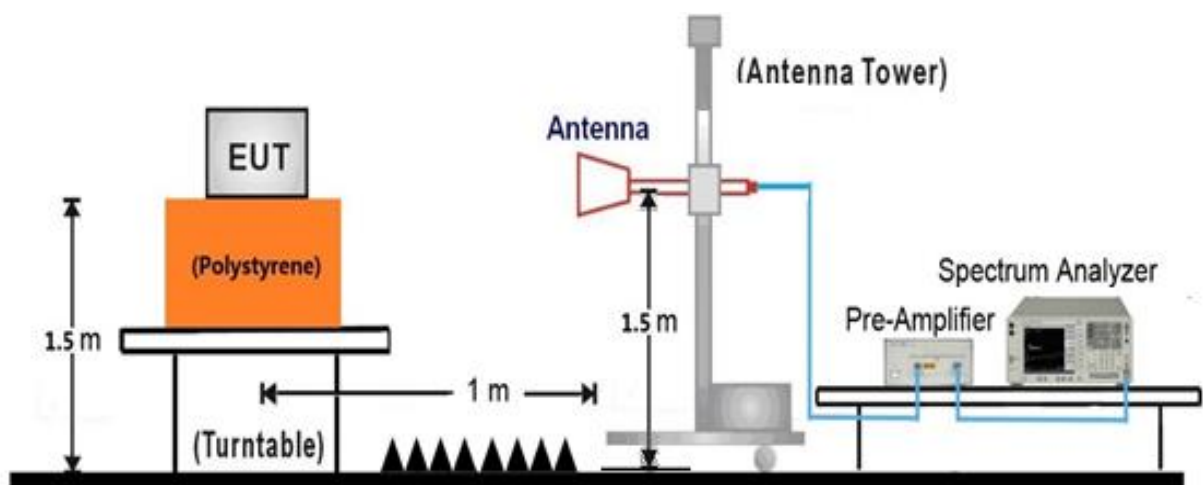
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

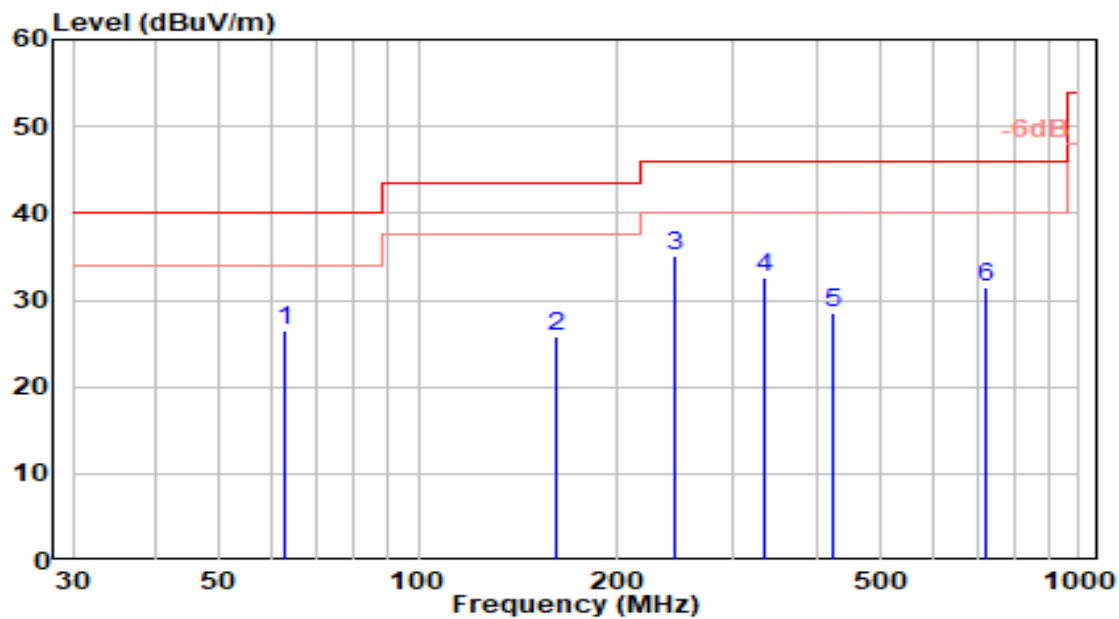


18GHz ~25GHz Test Setup:



7.6.5. Test Result

EUT	POS Terminal	Date of Test	2023-10-27
Factor	VULB 9162	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

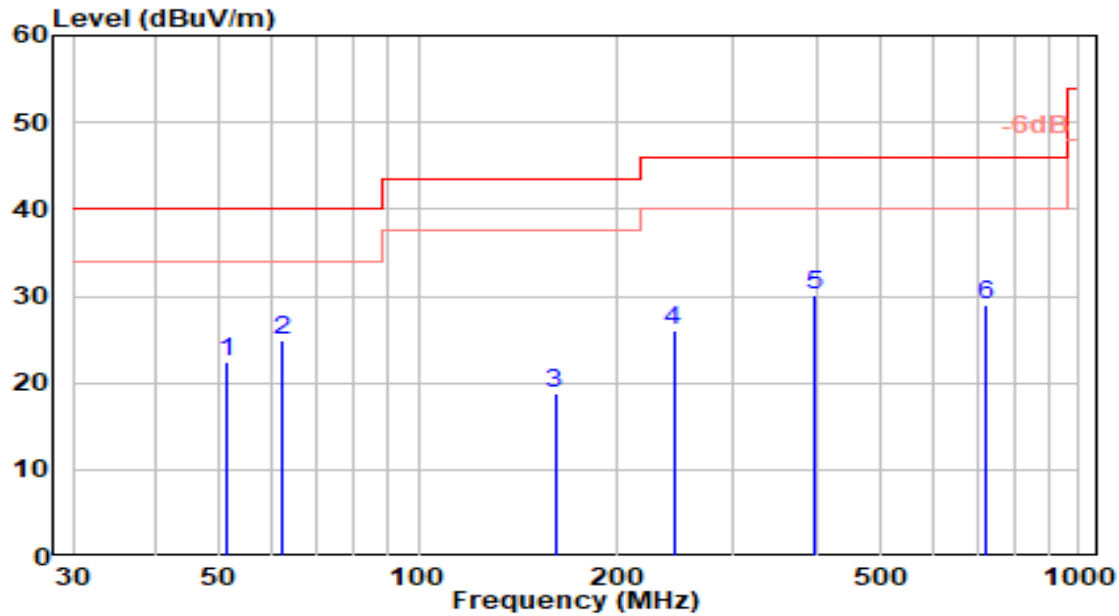


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	62.980	8.02	18.49	26.51	-13.49	40.00	200	176	QP
2	161.920	9.93	15.84	25.78	-17.72	43.50	200	312	QP
3	* 244.370	15.02	19.99	35.01	-10.99	46.00	100	248	QP
4	334.580	10.44	22.17	32.61	-13.39	46.00	100	61	QP
5	423.820	4.79	23.73	28.52	-17.48	46.00	200	256	QP
6	725.490	2.83	28.72	31.55	-14.45	46.00	100	283	QP

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	VULB 9162	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

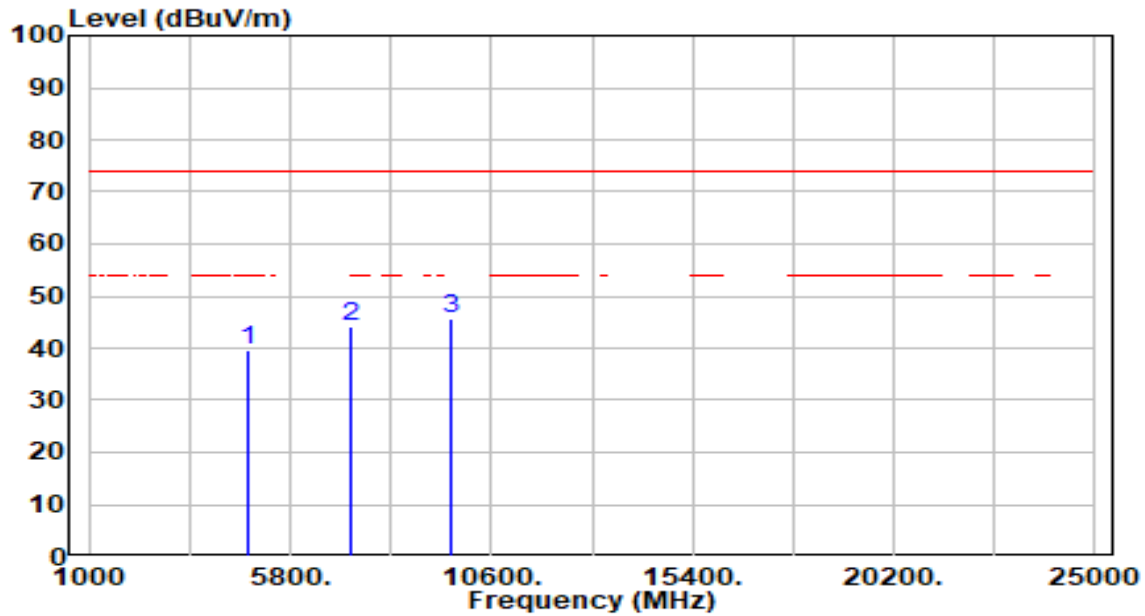


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	51.340	1.57	20.89	22.46	-17.54	40.00	116	360	QP
2	* 62.010	6.07	18.83	24.90	-15.10	40.00	200	48	QP
3	160.950	3.07	15.82	18.90	-24.60	43.50	200	14	QP
4	243.400	6.08	19.95	26.03	-19.97	46.00	200	209	QP
5	397.630	6.71	23.50	30.21	-15.79	46.00	144	360	QP
6	723.550	0.32	28.68	29.00	-17.00	46.00	200	85	QP

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

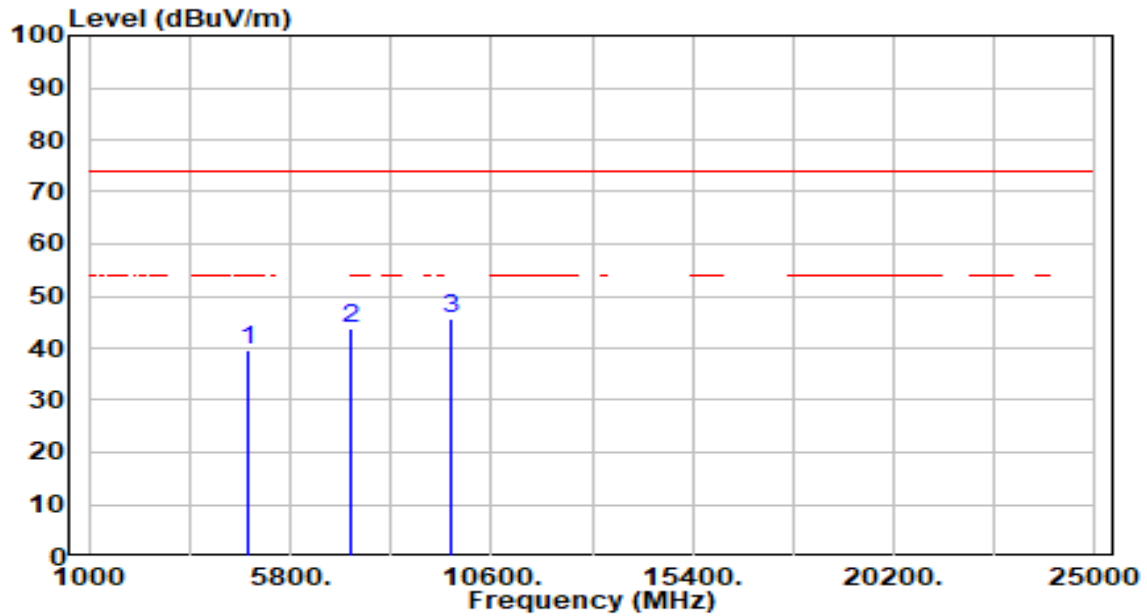


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.86	-1.10	39.76	-34.24	74.00	100	0	Peak
2	7236.000	40.07	3.90	43.97	-30.03	74.00	100	306	Peak
3	* 9648.000	42.62	3.21	45.83	-28.17	74.00	200	337	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

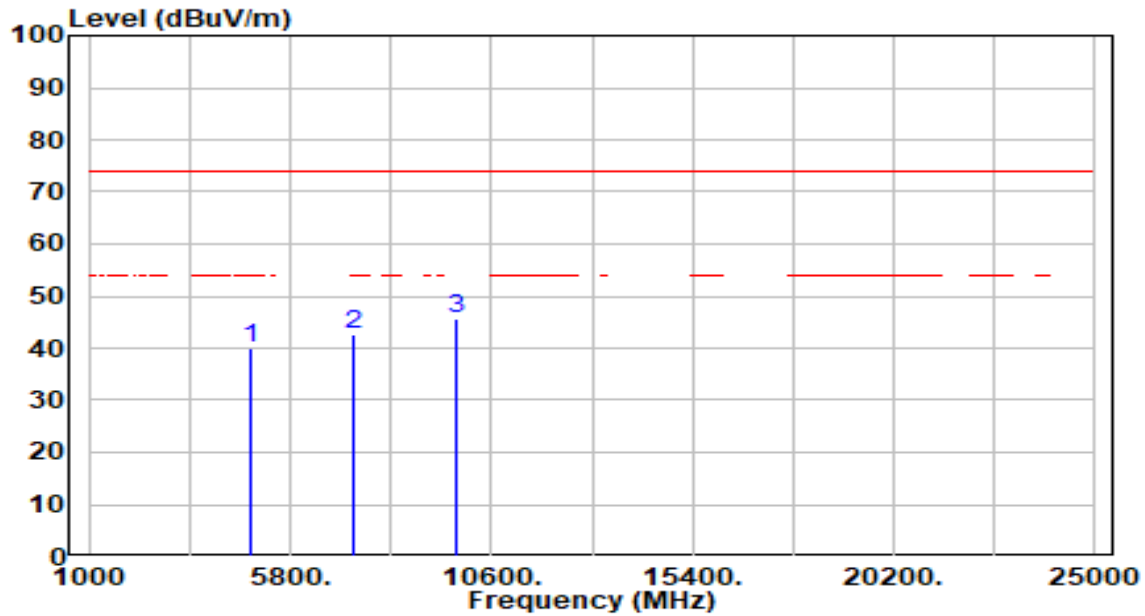


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.86	-1.10	39.76	-34.24	74.00	300	11	Peak
2	7236.000	39.75	3.90	43.65	-30.35	74.00	100	50	Peak
3	* 9648.000	42.41	3.21	45.63	-28.37	74.00	300	282	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

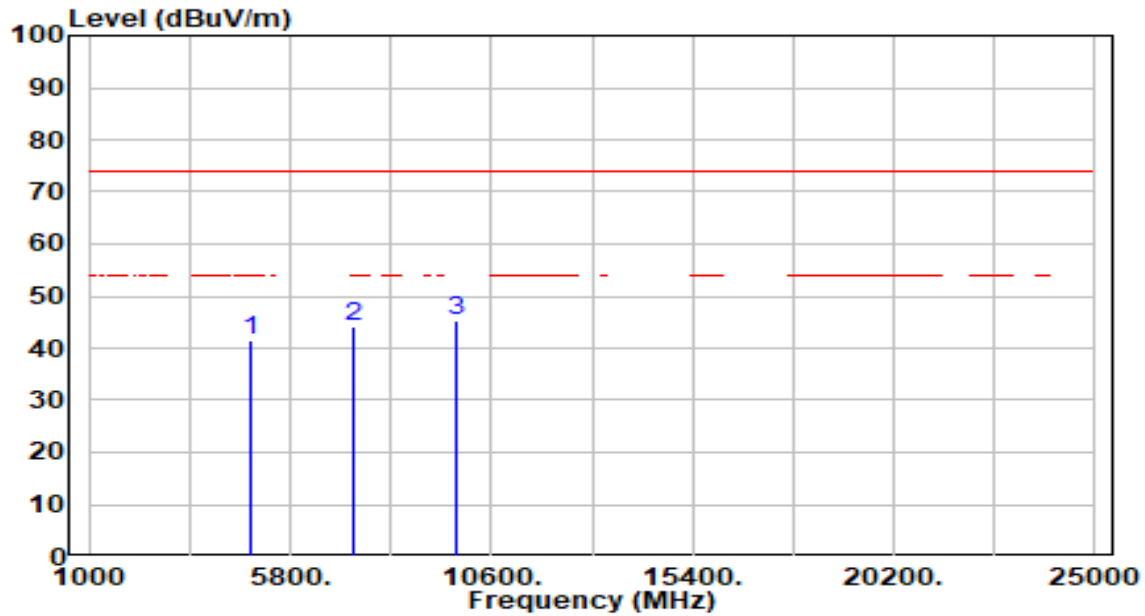


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	41.04	-0.97	40.07	-33.93	74.00	100	274	Peak
2	7311.000	38.64	3.92	42.56	-31.44	74.00	100	307	Peak
3	* 9748.000	42.40	3.24	45.64	-28.36	74.00	100	30	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

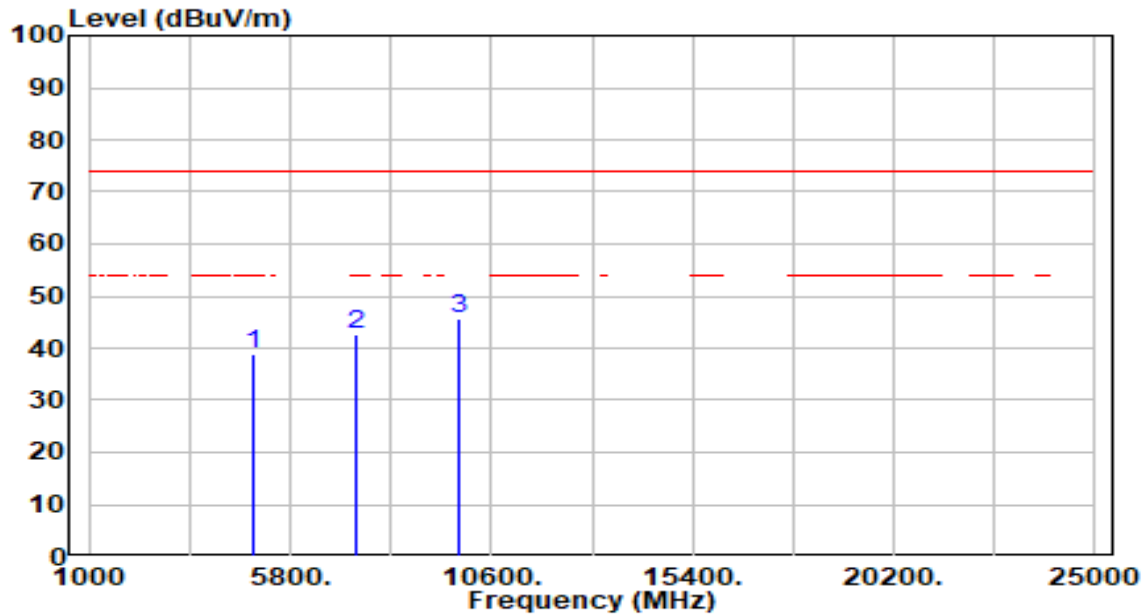


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	42.49	-0.97	41.52	-32.48	74.00	100	301	Peak
2	7311.000	40.27	3.92	44.19	-29.81	74.00	100	98	Peak
3	* 9748.000	42.23	3.24	45.47	-28.53	74.00	100	182	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

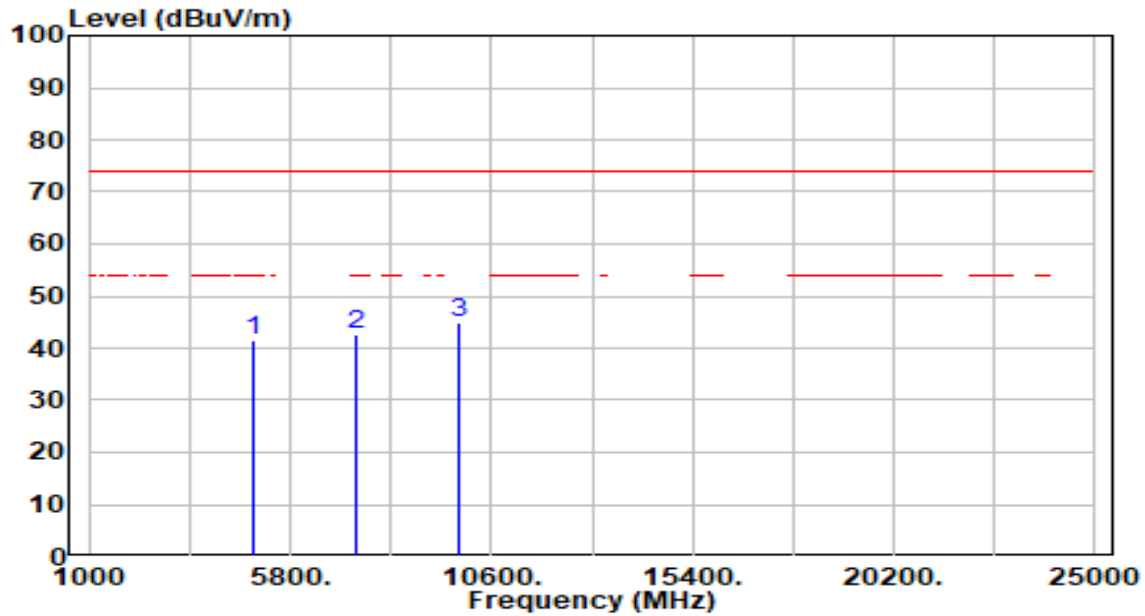


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	39.77	-0.84	38.93	-35.07	74.00	100	229	Peak
2	7386.000	38.64	3.93	42.58	-31.42	74.00	100	215	Peak
3	* 9848.000	42.47	3.27	45.74	-28.26	74.00	100	144	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

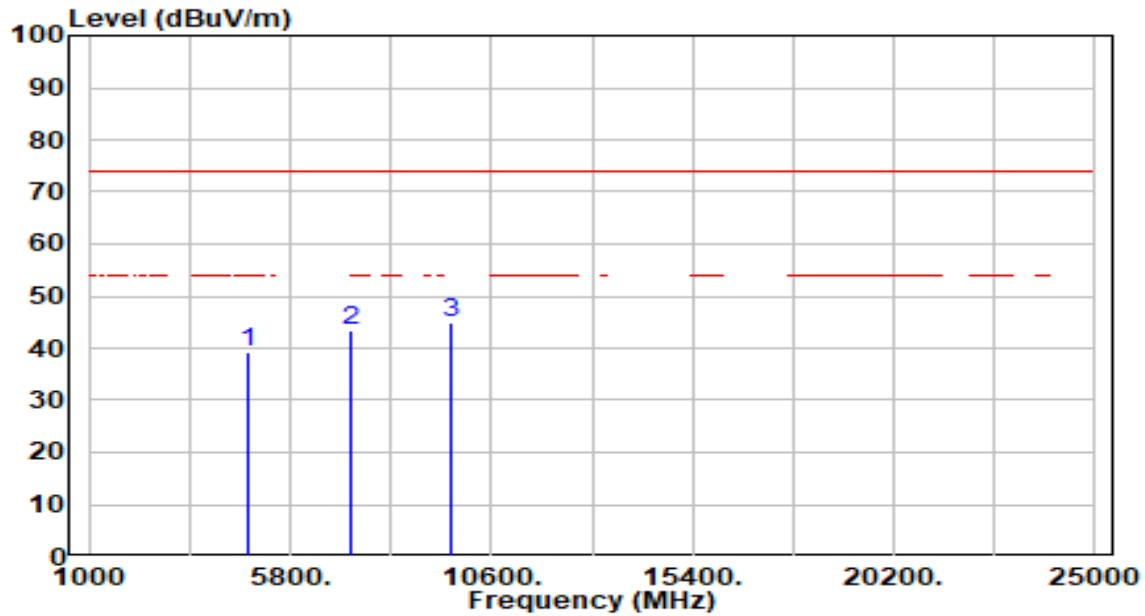


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	42.42	-0.84	41.59	-32.41	74.00	100	244	Peak
2	7386.000	38.67	3.93	42.61	-31.39	74.00	100	97	Peak
3	* 9848.000	41.51	3.27	44.78	-29.22	74.00	100	186	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

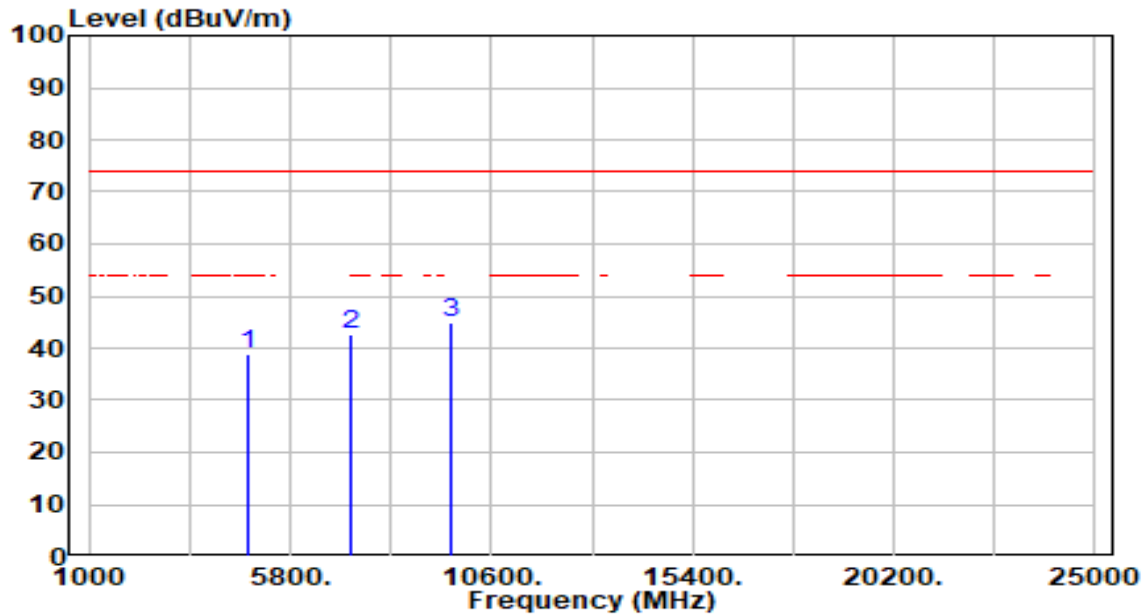


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.28	-1.10	39.18	-34.82	74.00	100	184	Peak
2	7236.000	39.33	3.90	43.23	-30.77	74.00	100	69	Peak
3	* 9648.000	41.64	3.21	44.86	-29.14	74.00	100	347	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

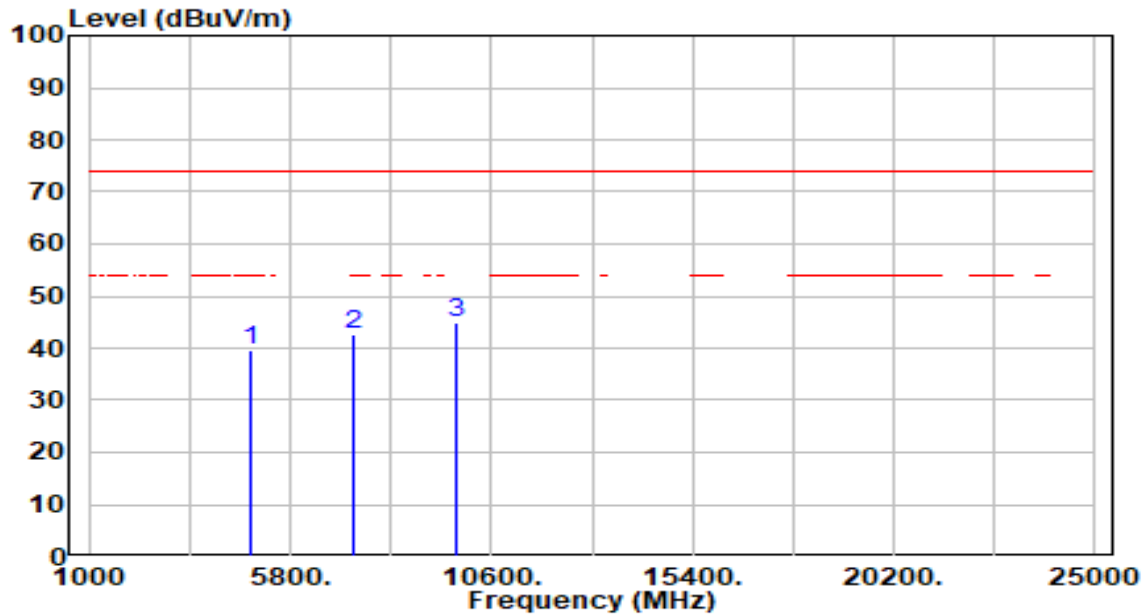


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	39.89	-1.10	38.79	-35.21	74.00	100	252	Peak
2	7236.000	38.65	3.90	42.55	-31.45	74.00	100	349	Peak
3	* 9648.000	41.79	3.21	45.01	-28.99	74.00	100	6	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

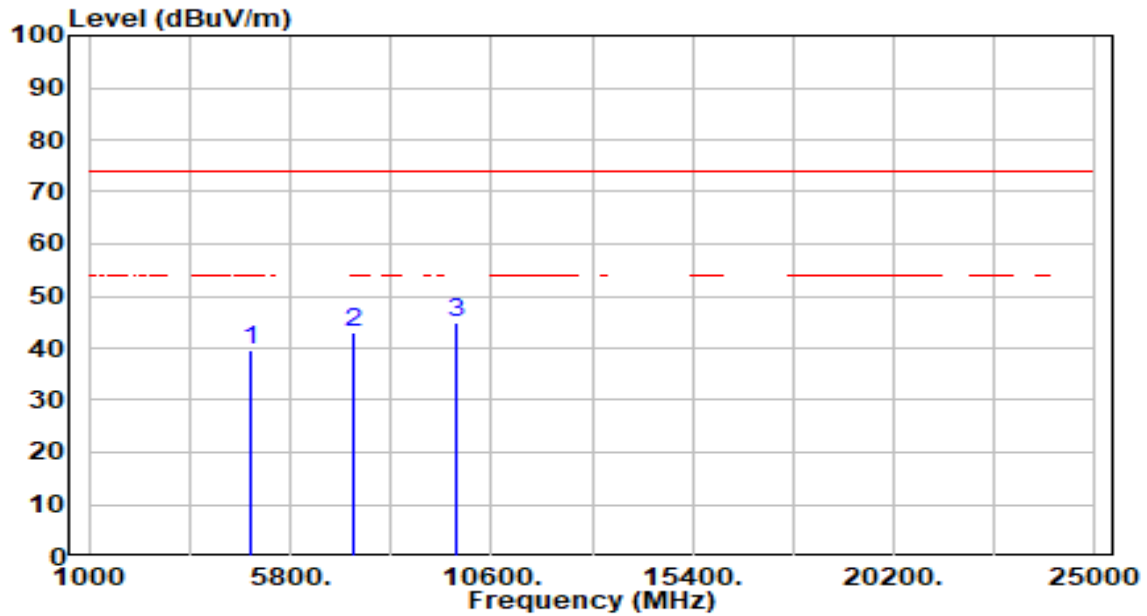


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	40.76	-0.97	39.79	-34.21	74.00	100	93	Peak
2	7311.000	38.79	3.92	42.71	-31.29	74.00	100	91	Peak
3	* 9748.000	41.73	3.24	44.97	-29.03	74.00	100	179	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

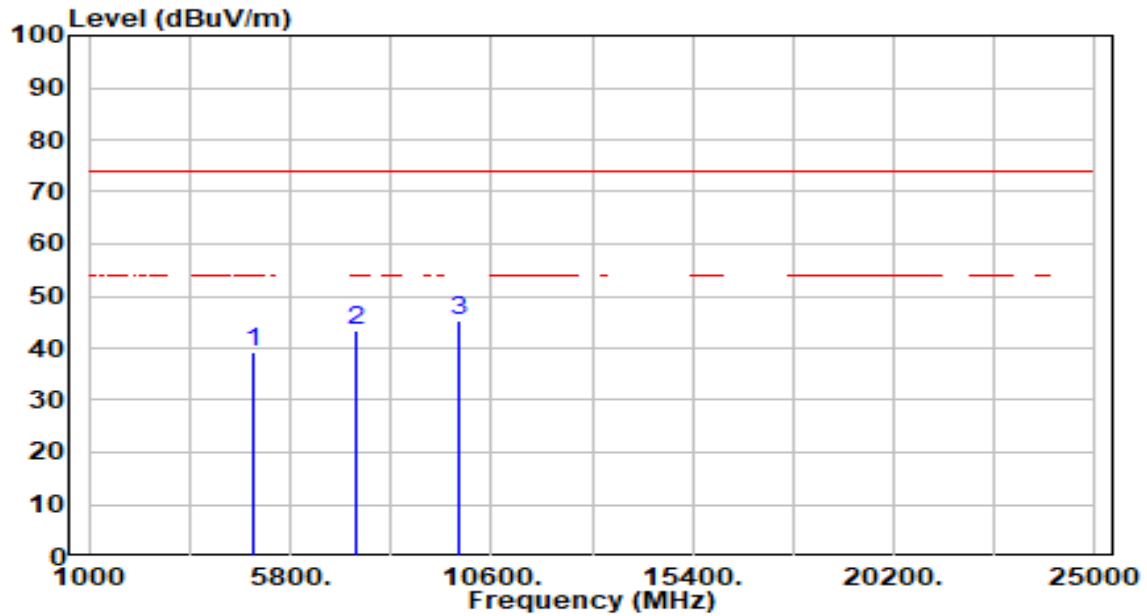


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	40.77	-0.97	39.81	-34.19	74.00	100	252	Peak
2	7311.000	39.03	3.92	42.95	-31.05	74.00	100	302	Peak
3	* 9748.000	41.61	3.24	44.85	-29.15	74.00	100	0	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

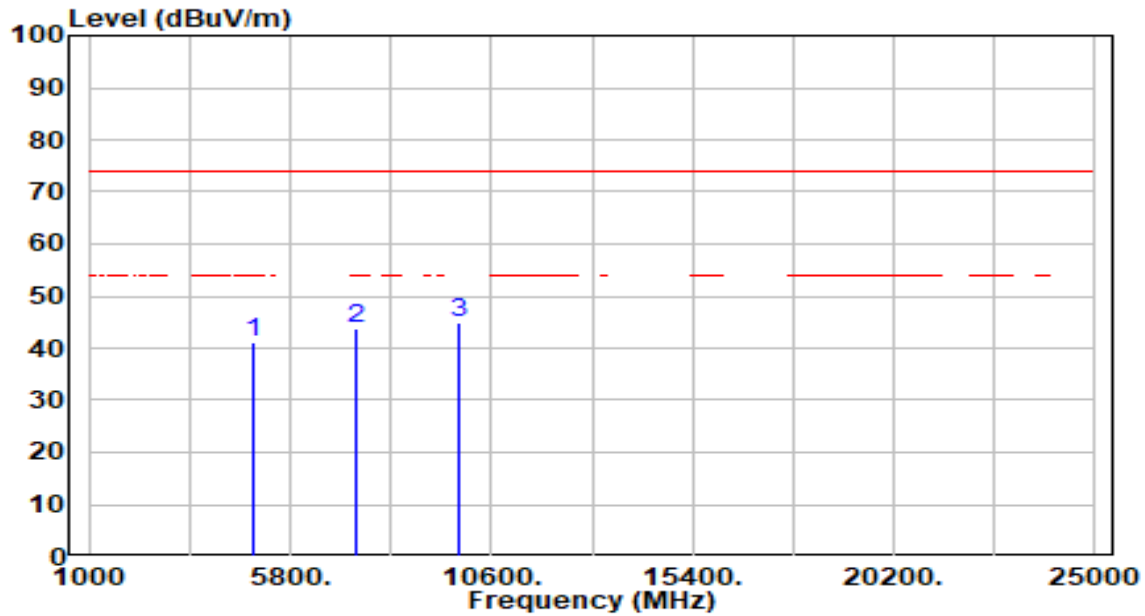


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	40.14	-0.84	39.30	-34.70	74.00	100	166	Peak
2	7386.000	39.56	3.93	43.50	-30.50	74.00	100	296	Peak
3	* 9848.000	41.93	3.27	45.20	-28.80	74.00	100	307	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

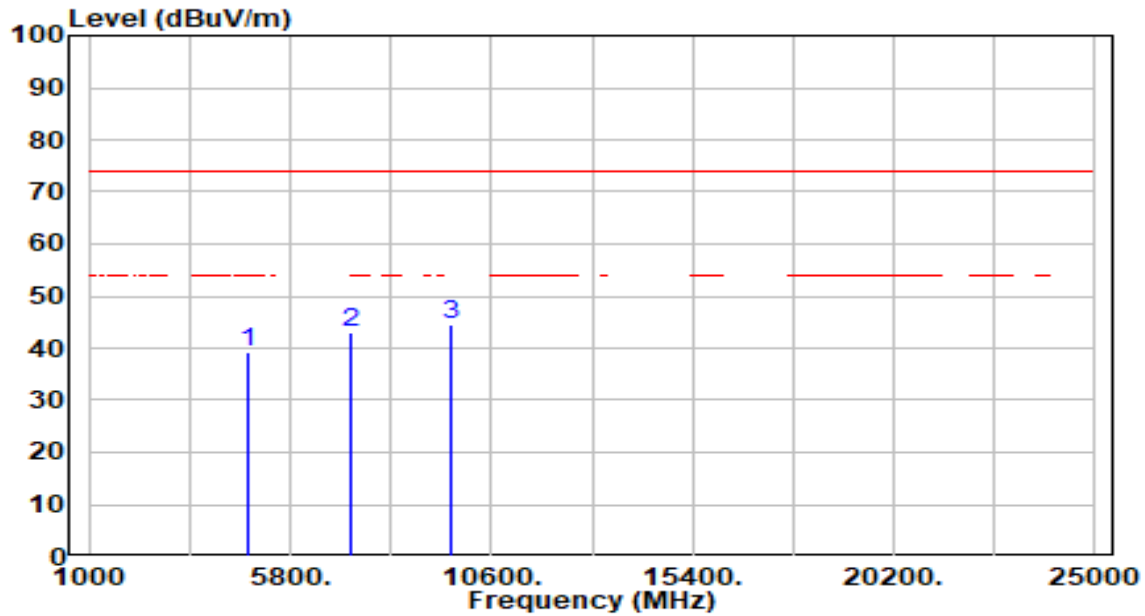


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	42.15	-0.84	41.31	-32.69	74.00	100	253	Peak
2	7386.000	39.67	3.93	43.60	-30.40	74.00	100	103	Peak
3	* 9848.000	41.71	3.27	44.98	-29.02	74.00	100	178	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

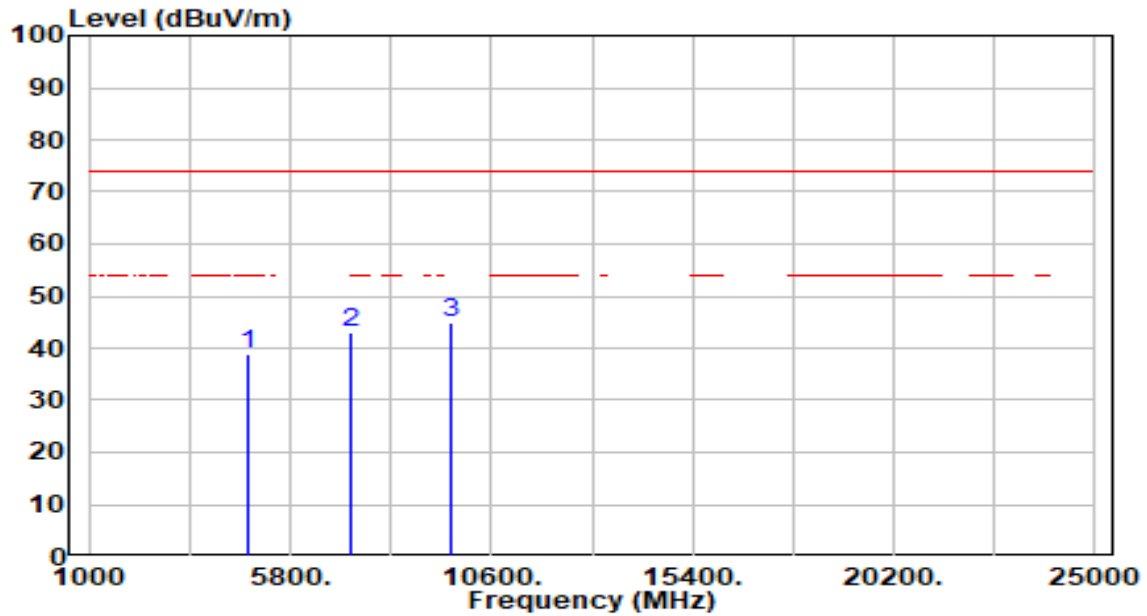


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.48	-1.10	39.39	-34.61	74.00	100	46	Peak
2	7236.000	39.21	3.90	43.11	-30.89	74.00	100	262	Peak
3	* 9648.000	41.13	3.21	44.35	-29.65	74.00	100	309	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

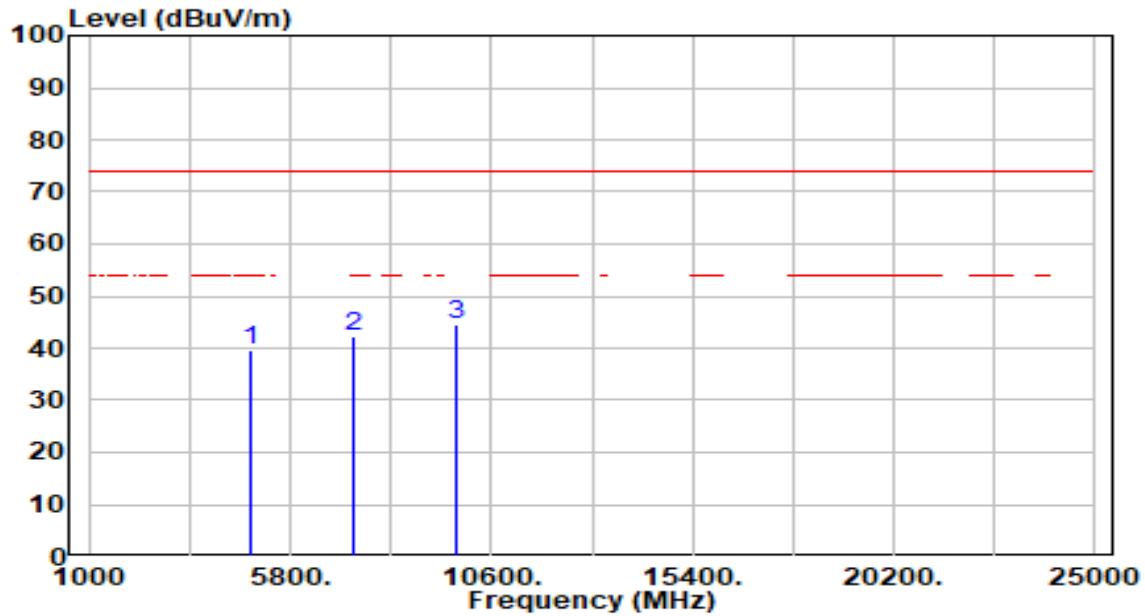


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.06	-1.10	38.96	-35.04	74.00	100	360	Peak
2	7236.000	38.95	3.90	42.85	-31.15	74.00	100	360	Peak
3	* 9648.000	41.56	3.21	44.78	-29.22	74.00	100	249	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

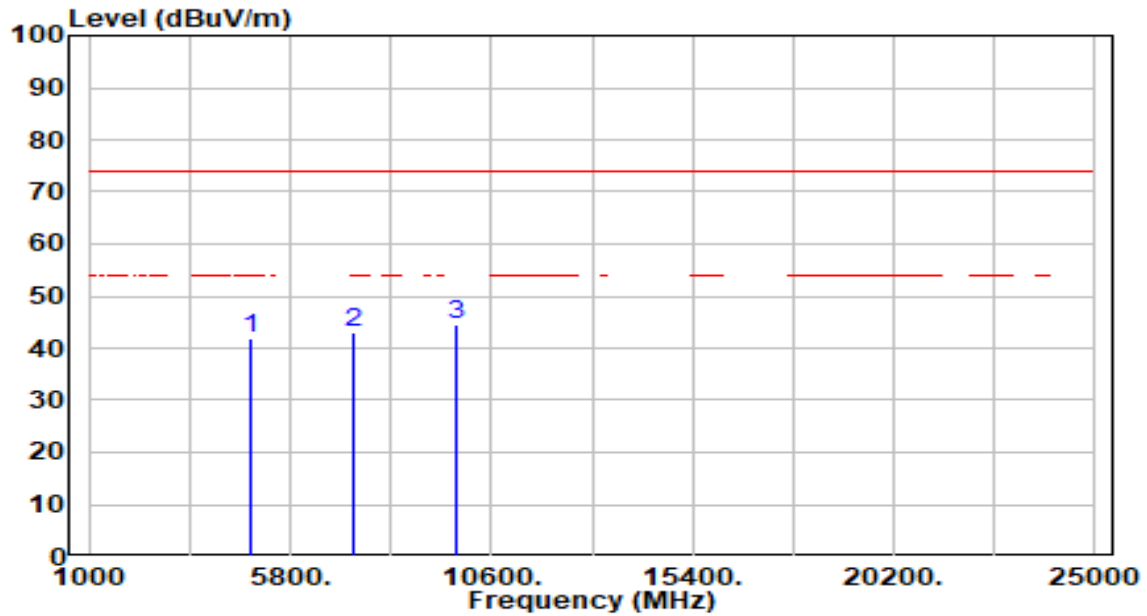


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	40.62	-0.97	39.66	-34.34	74.00	100	267	Peak
2	7311.000	38.27	3.92	42.19	-31.81	74.00	100	359	Peak
3	* 9748.000	41.43	3.24	44.67	-29.33	74.00	100	245	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

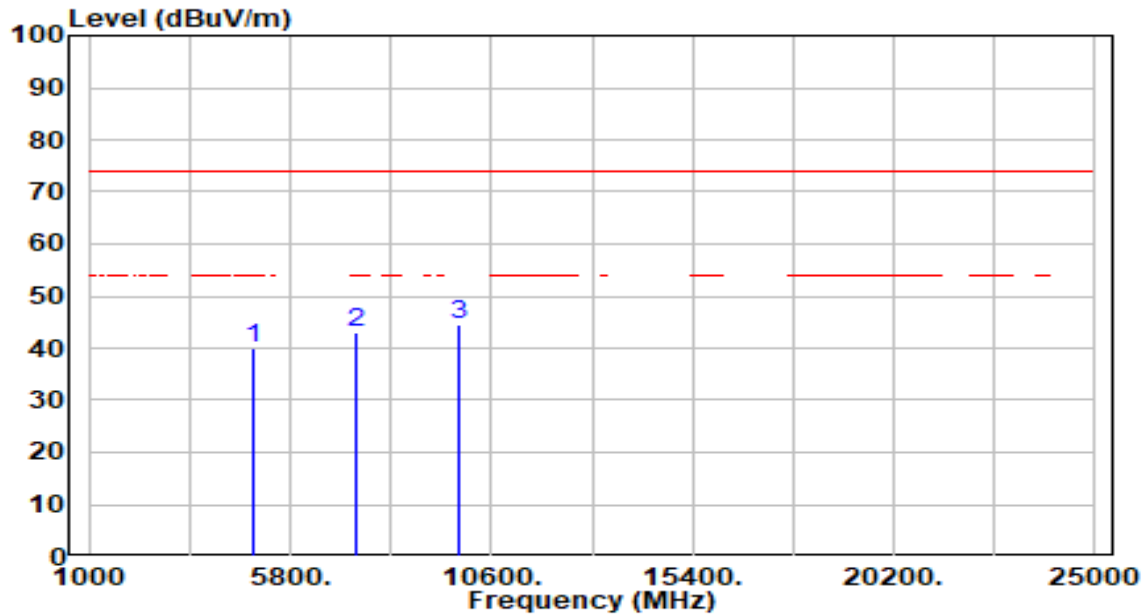


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	42.74	-0.97	41.77	-32.23	74.00	100	252	Peak
2	7311.000	39.28	3.92	43.20	-30.80	74.00	100	14	Peak
3	* 9748.000	41.47	3.24	44.71	-29.29	74.00	100	142	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

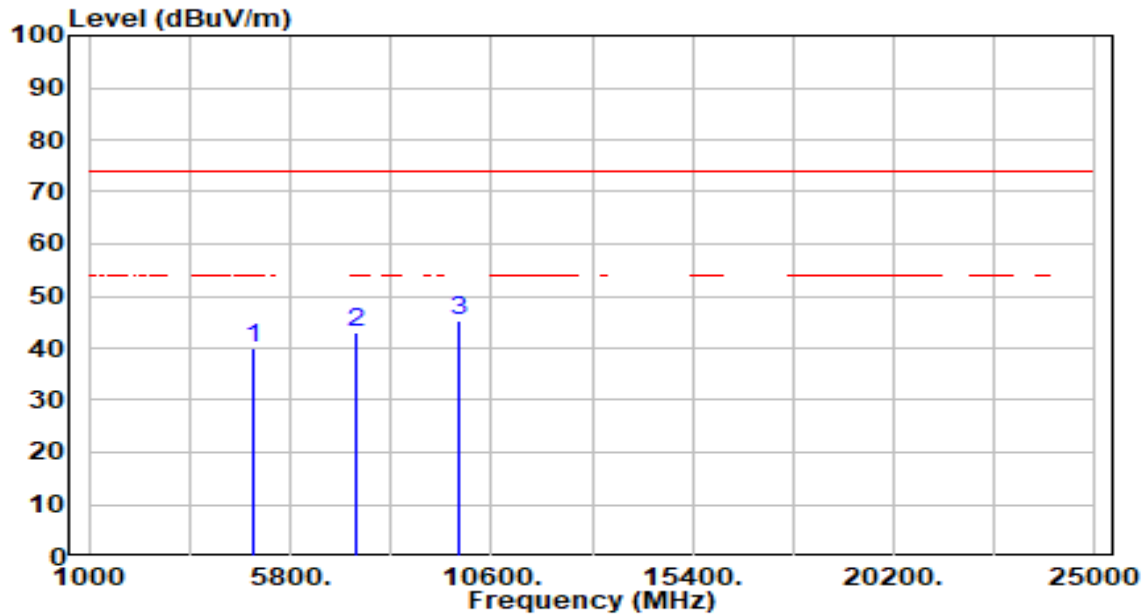


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	40.99	-0.84	40.15	-33.85	74.00	100	55	Peak
2	7386.000	38.97	3.93	42.91	-31.09	74.00	100	344	Peak
3	* 9848.000	41.44	3.27	44.71	-29.29	74.00	100	331	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

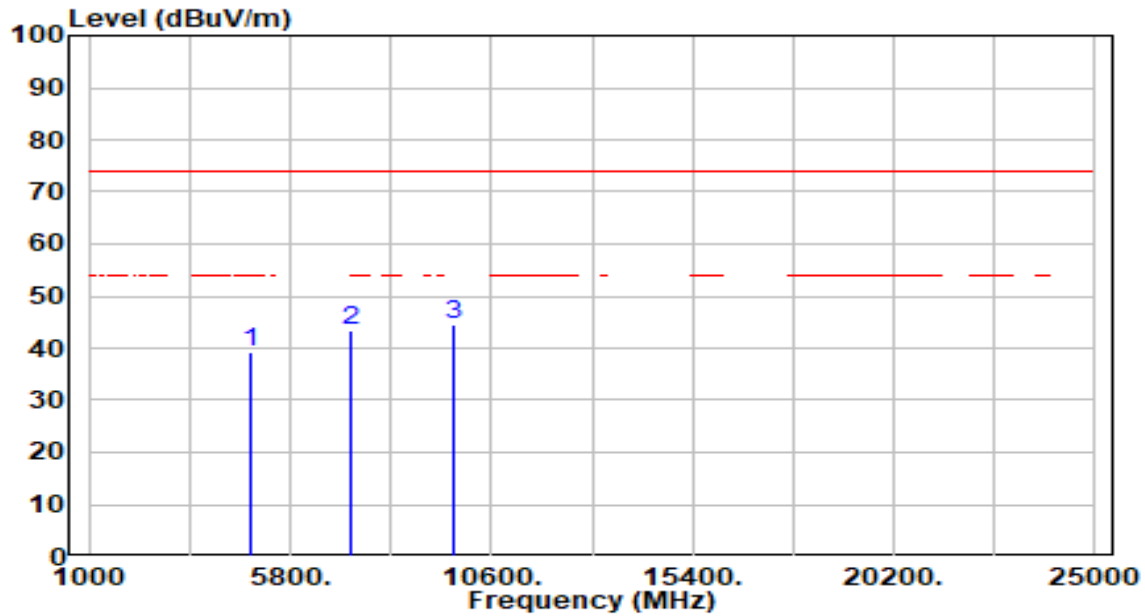


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	40.65	-0.84	39.82	-34.18	74.00	100	302	Peak
2	7386.000	39.26	3.93	43.20	-30.80	74.00	100	61	Peak
3	* 9848.000	41.85	3.27	45.12	-28.88	74.00	100	205	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0	Test Voltage	AC 120V/60Hz

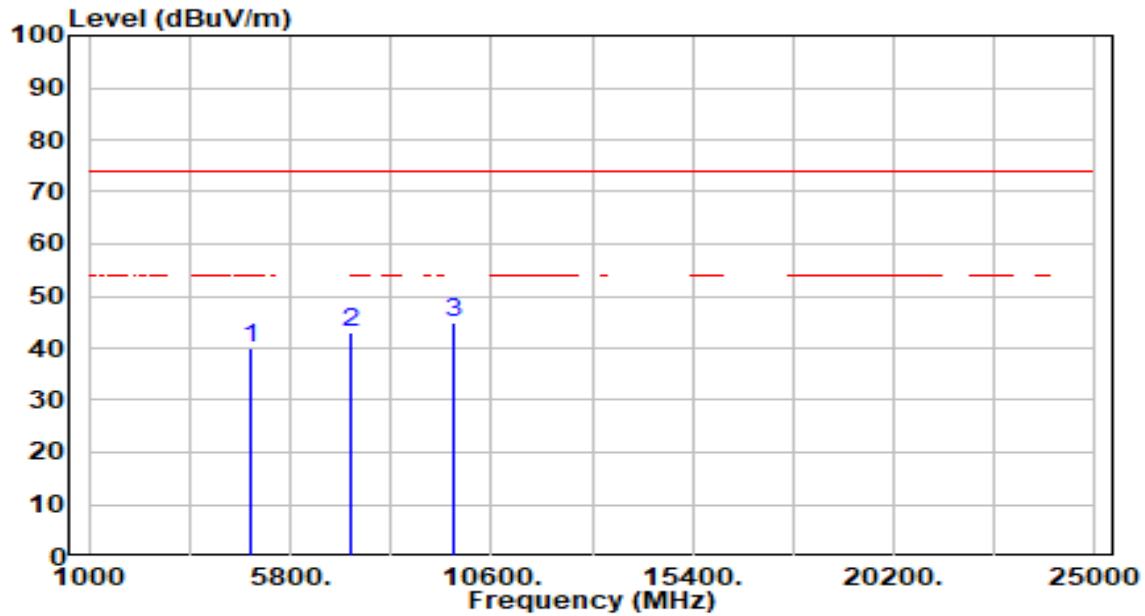


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4844.000	40.46	-1.05	39.41	-34.59	74.00	100	0	Peak
2	7266.000	39.31	3.91	43.22	-30.78	74.00	100	154	Peak
3	* 9688.000	41.42	3.23	44.65	-29.35	74.00	100	331	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0	Test Voltage	AC 120V/60Hz

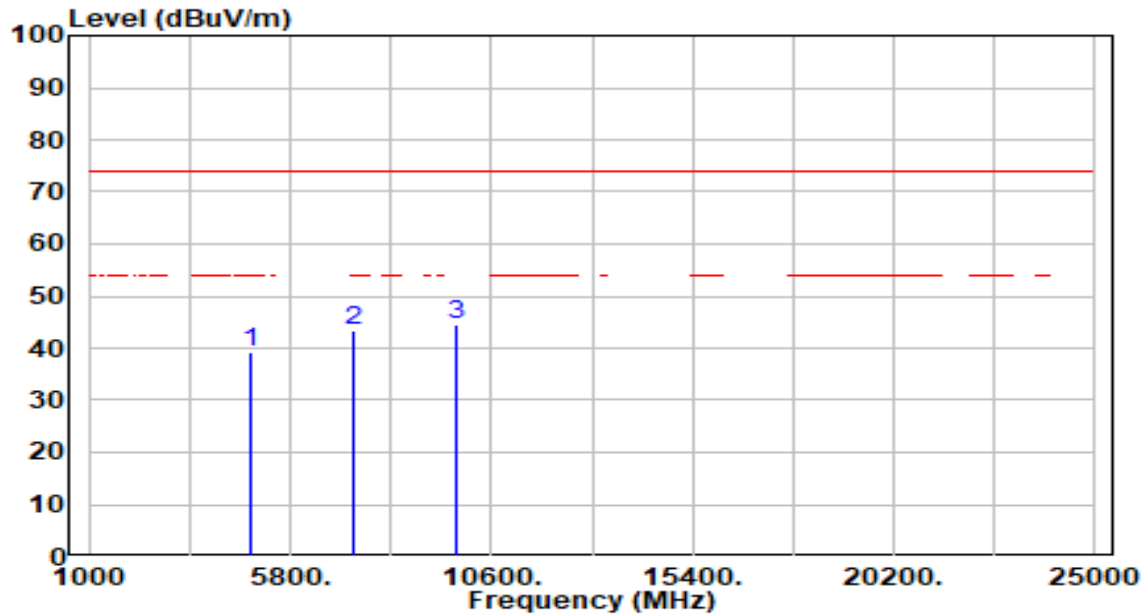


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4844.000	40.98	-1.05	39.93	-34.07	74.00	100	209	Peak
2	7266.000	39.12	3.91	43.03	-30.97	74.00	100	361	Peak
3	* 9688.000	41.72	3.23	44.95	-29.05	74.00	100	235	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

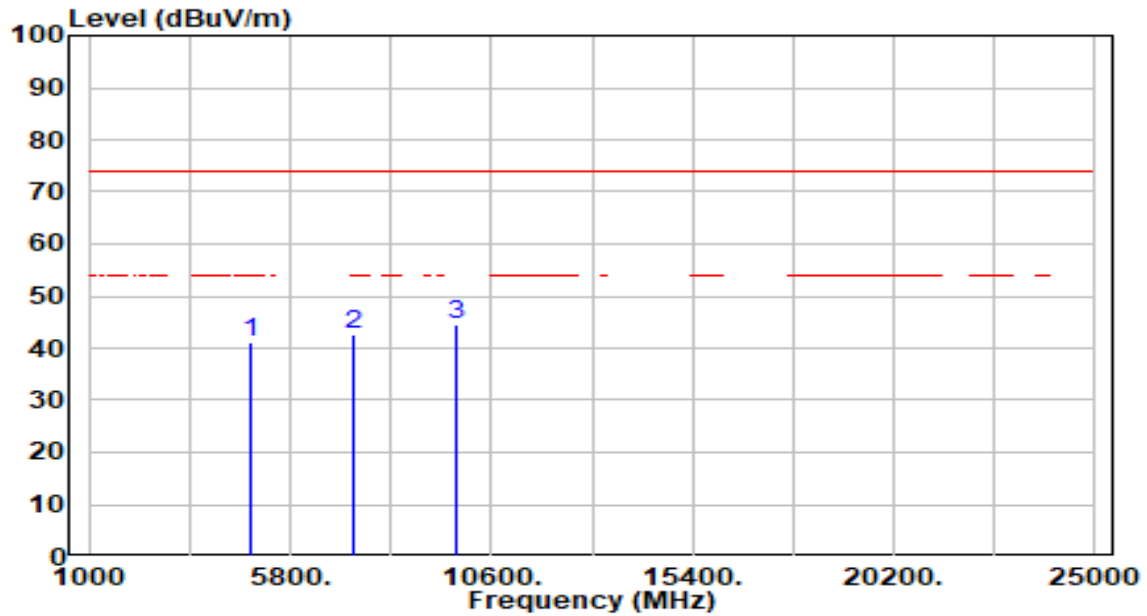


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	40.21	-0.97	39.24	-34.76	74.00	100	272	Peak
2	7311.000	39.52	3.92	43.44	-30.56	74.00	100	185	Peak
3	* 9748.000	41.23	3.24	44.48	-29.52	74.00	100	102	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

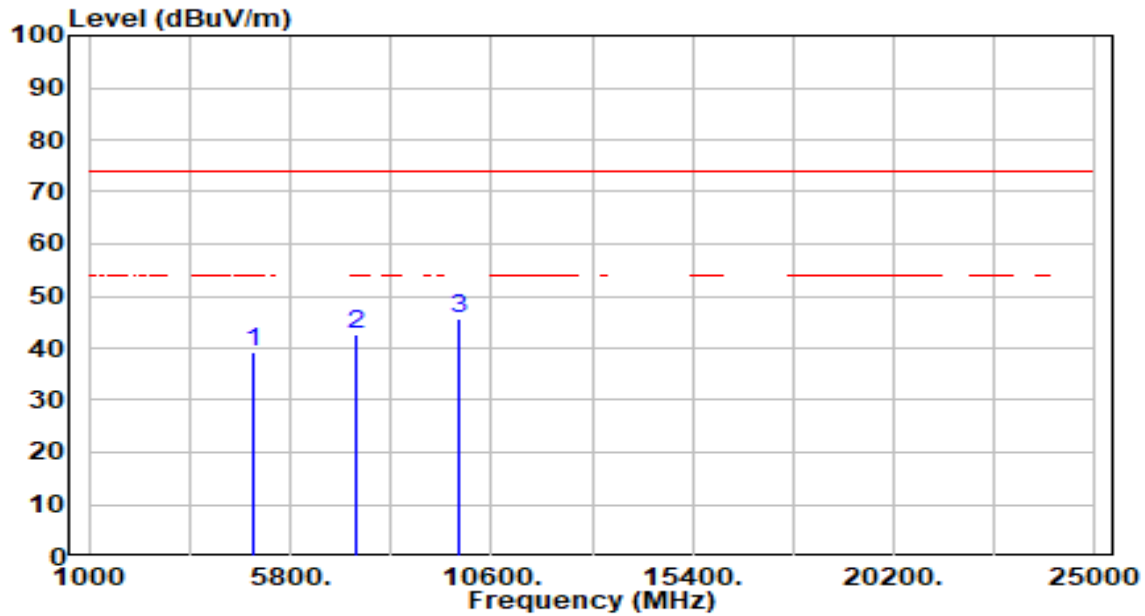


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	42.28	-0.97	41.31	-32.69	74.00	100	252	Peak
2	7311.000	38.85	3.92	42.77	-31.23	74.00	100	9	Peak
3	* 9748.000	41.16	3.24	44.40	-29.60	74.00	100	360	Peak

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0	Test Voltage	AC 120V/60Hz

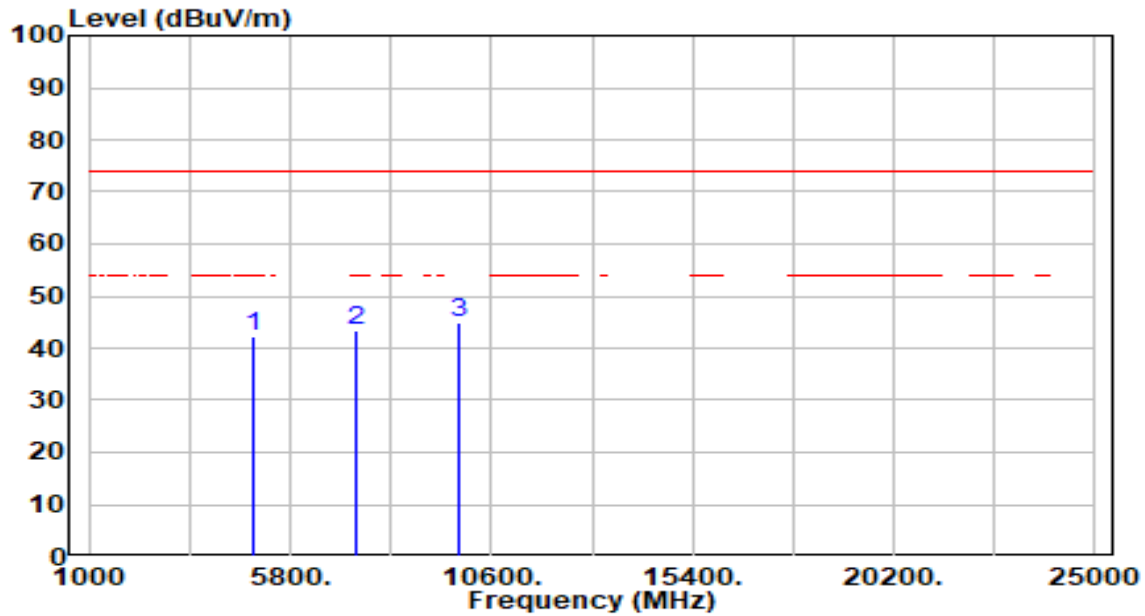


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	40.06	-0.89	39.17	-34.83	74.00	100	280	Peak
2	7356.000	38.84	3.93	42.77	-31.23	74.00	100	0	Peak
3	* 9808.000	42.22	3.26	45.48	-28.52	74.00	100	209	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 9_ANT 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	4904.000	43.34	-0.89	42.45	-31.55	74.00	100	247	Peak
2	7356.000	39.48	3.93	43.41	-30.59	74.00	100	64	Peak
3	* 9808.000	41.59	3.26	44.85	-29.15	74.00	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 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 11.12.1

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

- Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

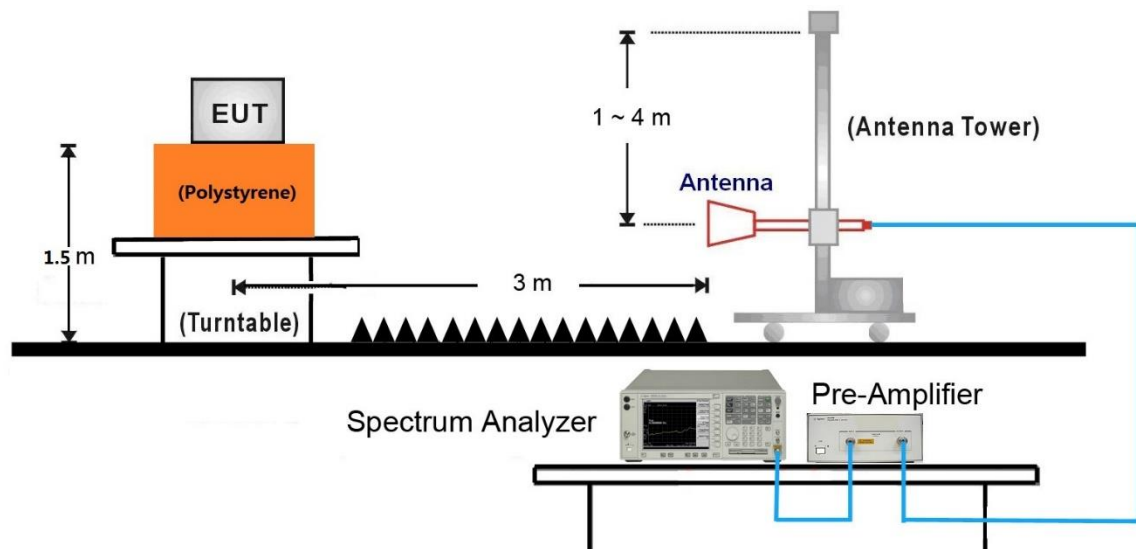
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 1MHz
- VBW $\geq 1/T$
- 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
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold
- Allow max hold to run for at least 50 times (1/duty cycle) traces

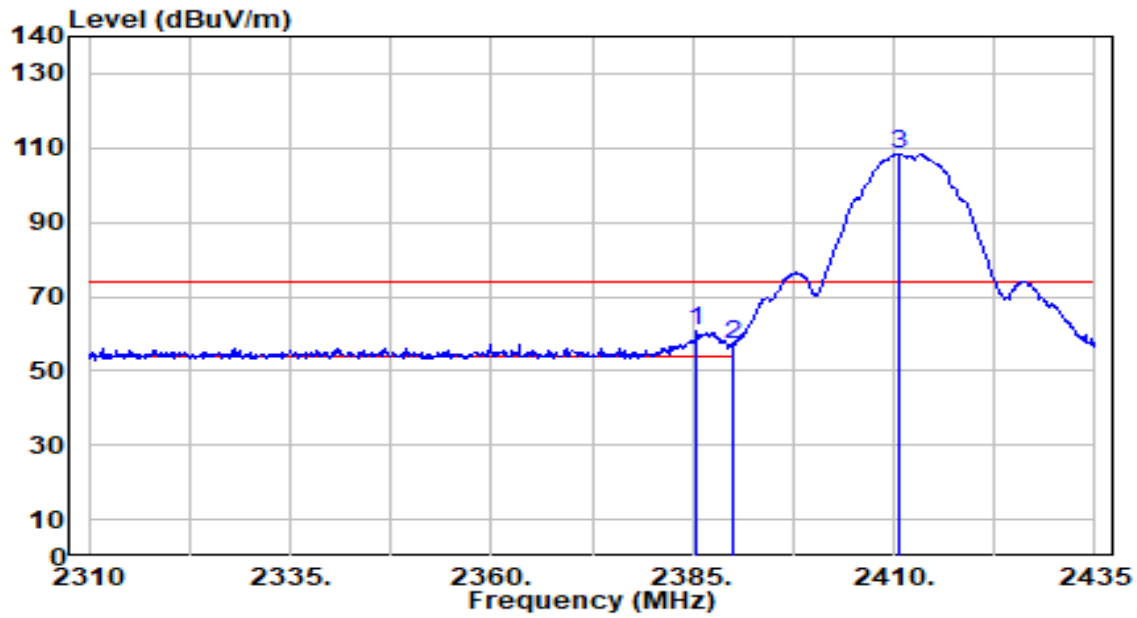
7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



7.7.5. Test Result

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

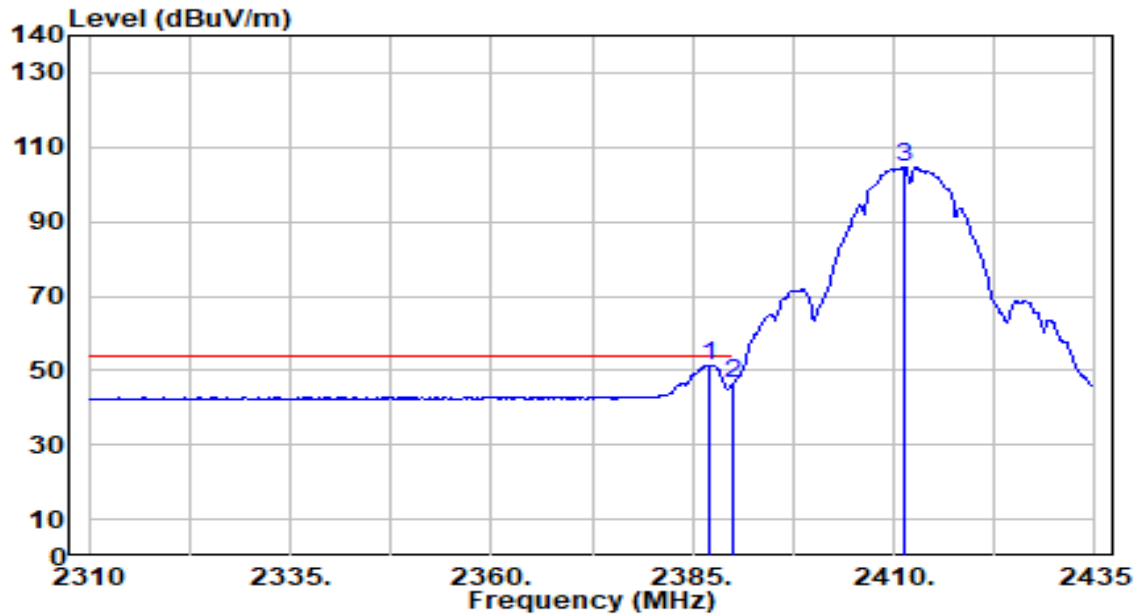


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2385.500	30.51	30.17	60.68	-13.32	74.00	145	226	Peak
2	2390.000	26.86	30.18	57.04	-16.96	74.00	145	226	Peak
3	2410.750	78.27	30.22	108.50	N/A	N/A	145	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

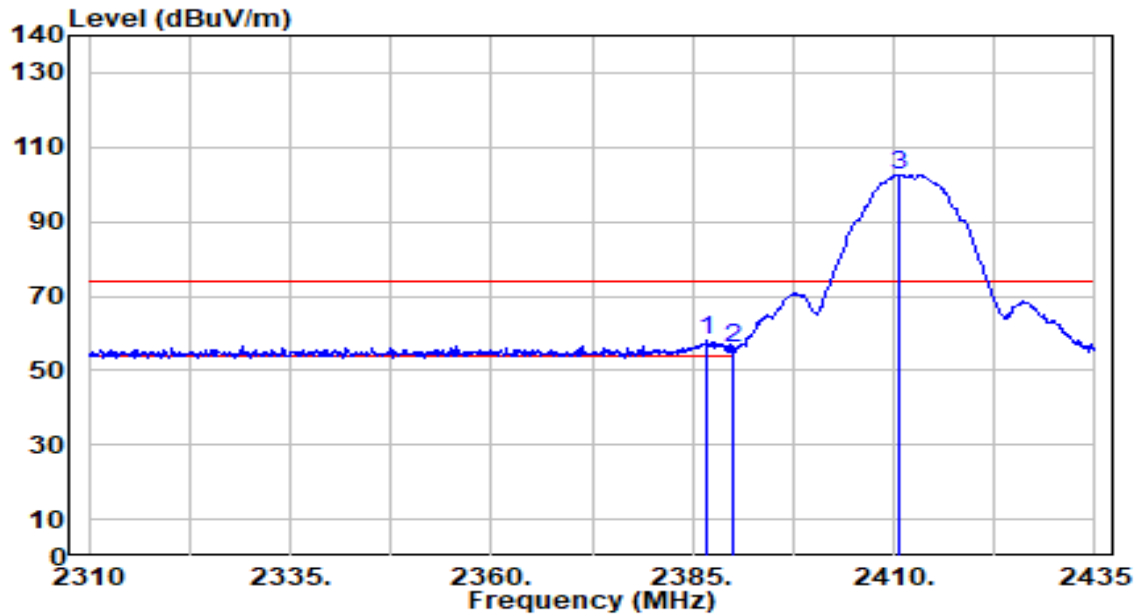


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.125	21.09	30.17	51.27	-2.73	54.00	145	226	Average
2		2390.000	16.28	30.18	46.46	-7.54	54.00	145	226	Average
3		2411.250	74.59	30.22	104.82	N/A	N/A	145	226	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

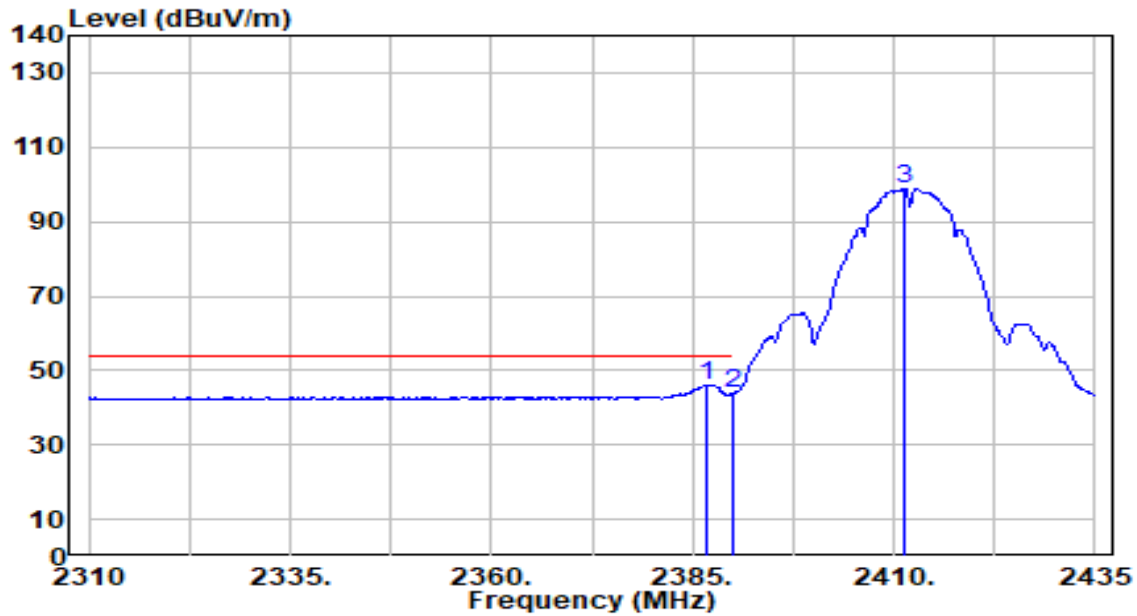


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.875	27.79	30.17	57.96	-16.04	74.00	344	175	Peak
2		2390.000	25.59	30.18	55.77	-18.23	74.00	344	175	Peak
3		2410.625	72.50	30.22	102.72	N/A	N/A	344	175	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

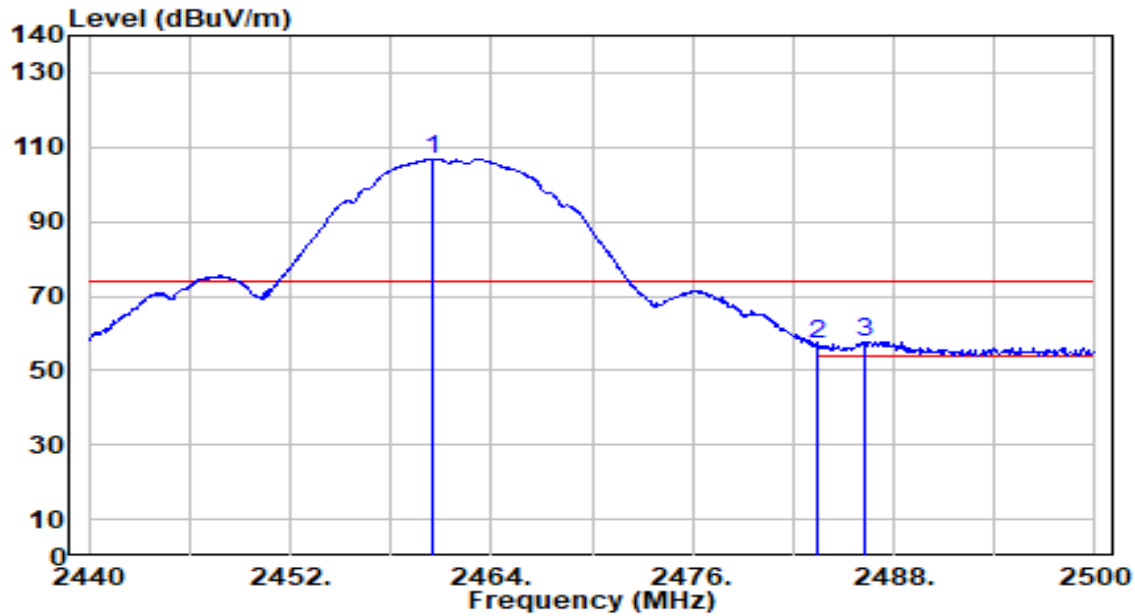


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.625	15.83	30.17	46.00	-8.00	54.00	344	175	Average
2		2390.000	13.51	30.18	43.69	-10.31	54.00	344	175	Average
3		2411.250	68.83	30.22	99.05	N/A	N/A	344	175	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

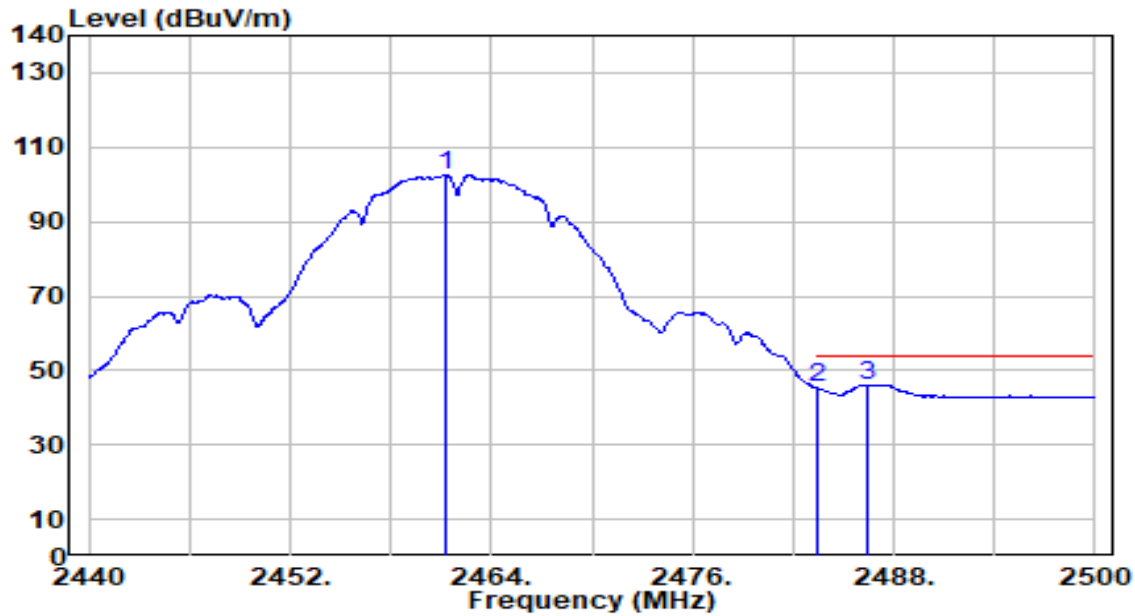


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.520	76.68	30.29	106.97	N/A	N/A	145	226	Peak
2	2483.500	26.73	30.32	57.04	-16.96	74.00	145	226	Peak
3	* 2486.200	27.39	30.32	57.72	-16.28	74.00	145	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

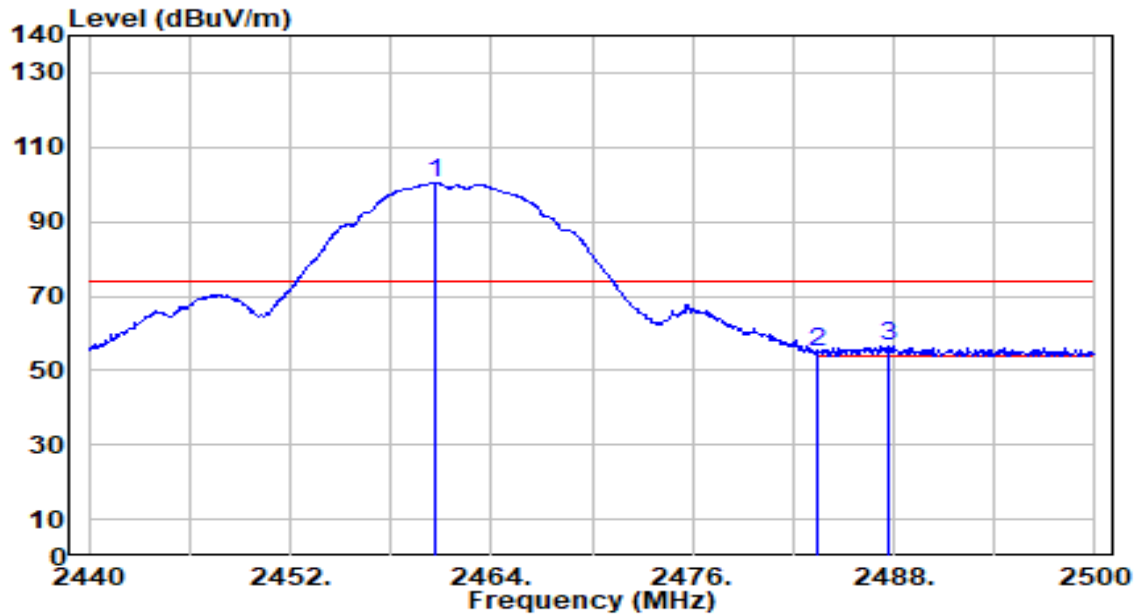


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.300	72.32	30.29	102.61	N/A	N/A	145	226	Average
2	2483.500	14.90	30.32	45.22	-8.78	54.00	145	226	Average
3	* 2486.500	15.89	30.32	46.21	-7.79	54.00	145	226	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

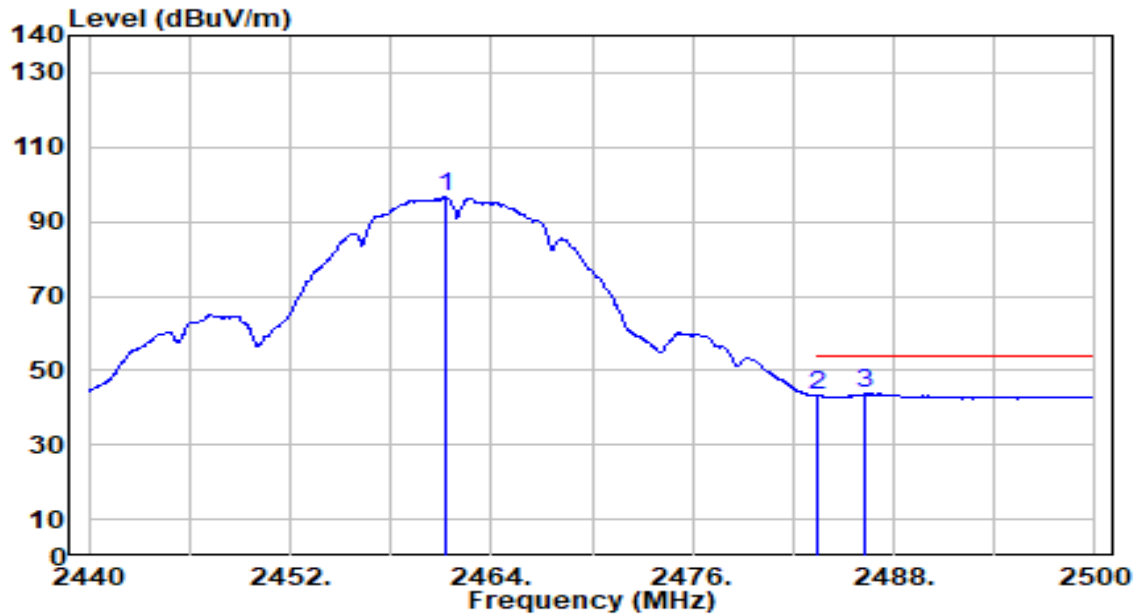


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.700	70.10	30.29	100.39	N/A	N/A	386	175	Peak
2	2483.500	24.46	30.32	54.78	-19.22	74.00	386	175	Peak
3	* 2487.700	26.16	30.32	56.48	-17.52	74.00	386	175	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

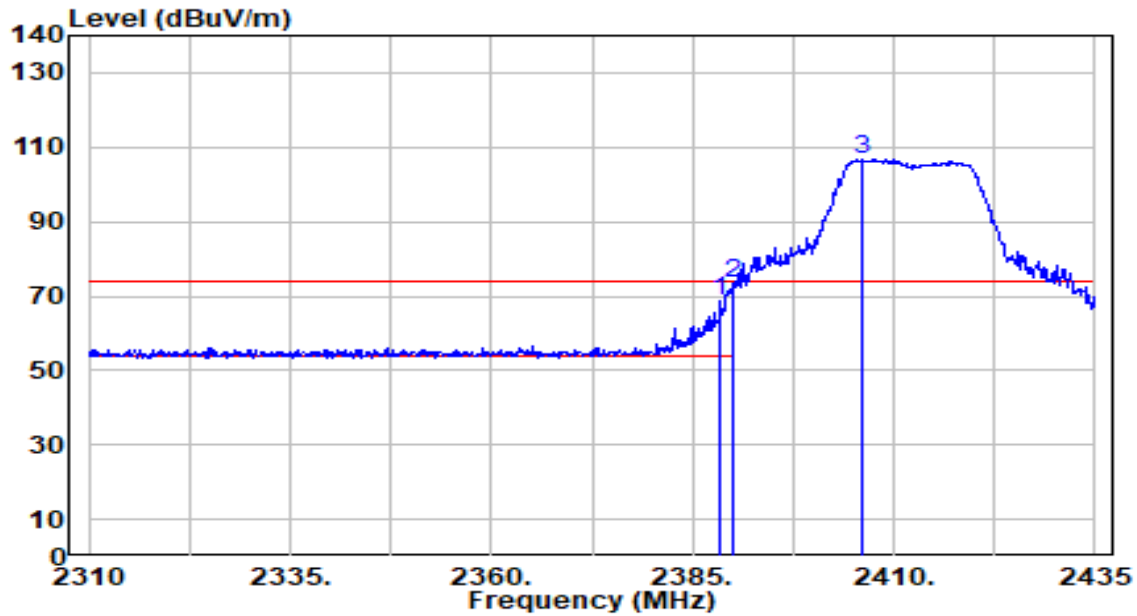


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.240	66.19	30.29	96.48	N/A	N/A	386	175	Average
2	2483.500	12.75	30.32	43.06	-10.94	54.00	386	175	Average
3	* 2486.260	13.54	30.32	43.86	-10.14	54.00	386	175	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

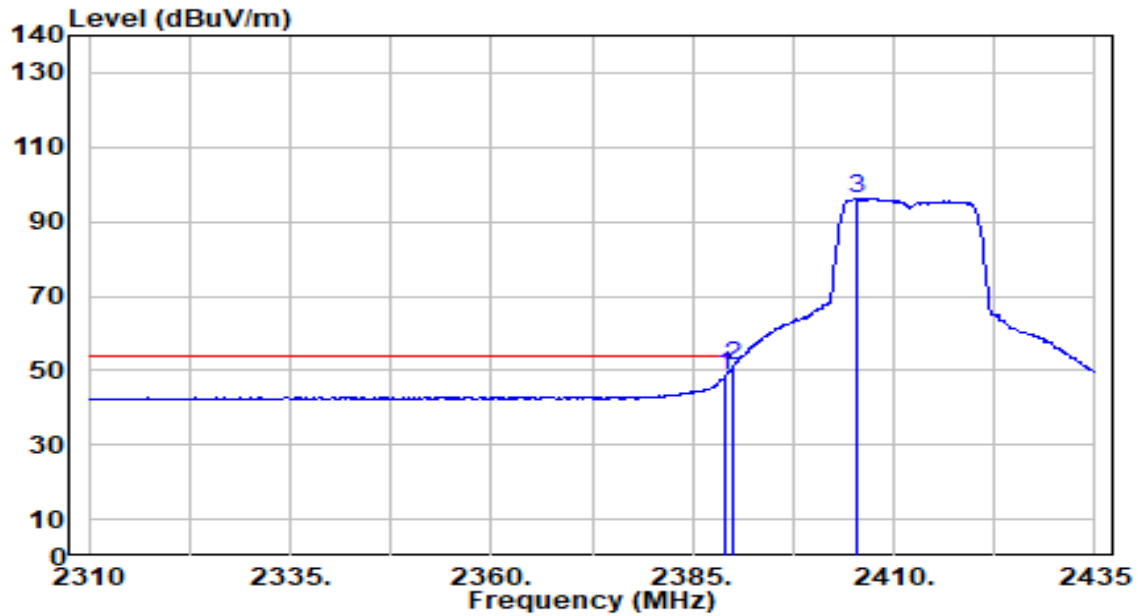


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.375	38.44	30.18	68.61	-5.39	74.00	145	226	Peak
2	* 2390.000	43.25	30.18	73.43	-0.57	74.00	145	226	Peak
3	2406.125	76.57	30.22	106.78	N/A	N/A	145	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

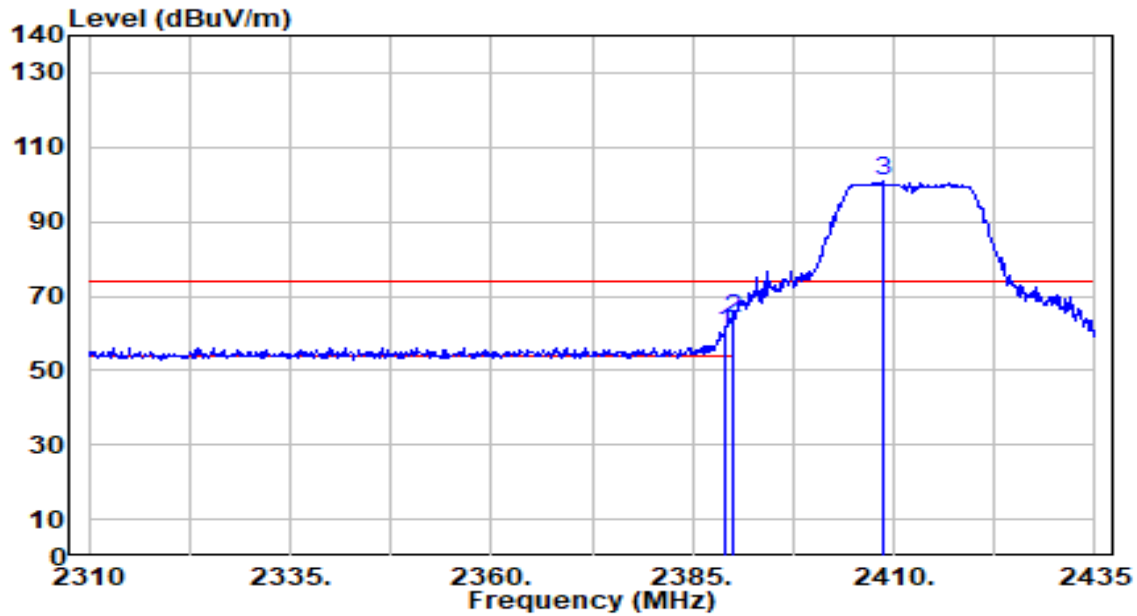


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2389.000	18.30	30.18	48.48	-5.52	54.00	145	226	Average
2	* 2390.000	20.87	30.18	51.05	-2.95	54.00	145	226	Average
3	2405.500	65.88	30.22	96.09	N/A	N/A	145	226	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

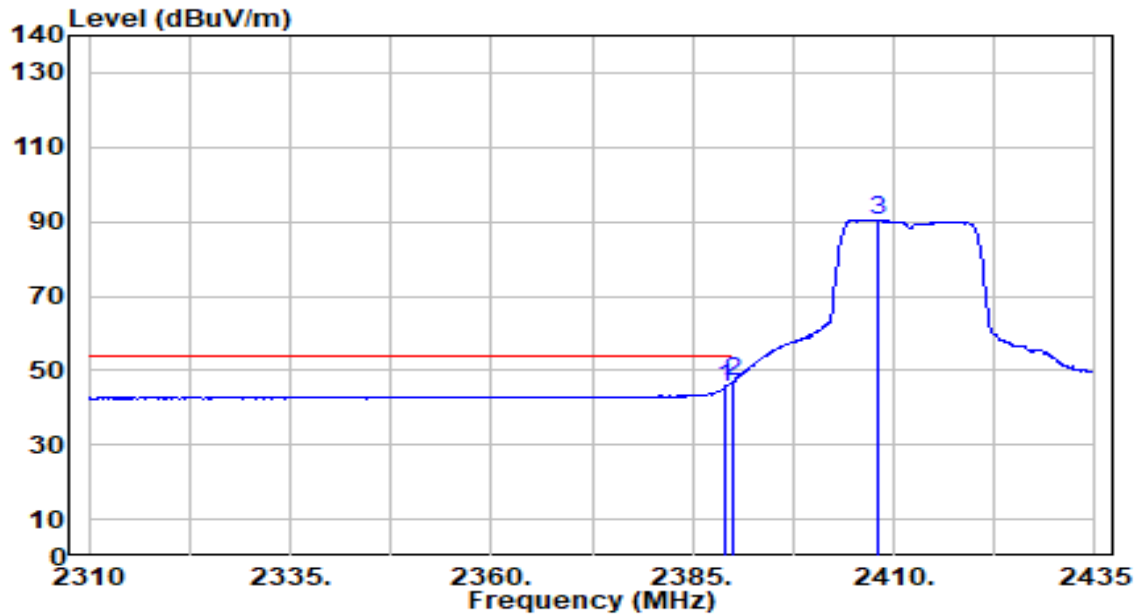


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2389.000	30.31	30.18	60.49	-13.51	74.00	344	175	Peak
2	* 2390.000	33.74	30.18	63.92	-10.08	74.00	344	175	Peak
3	2408.750	70.87	30.22	101.09	N/A	N/A	344	175	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

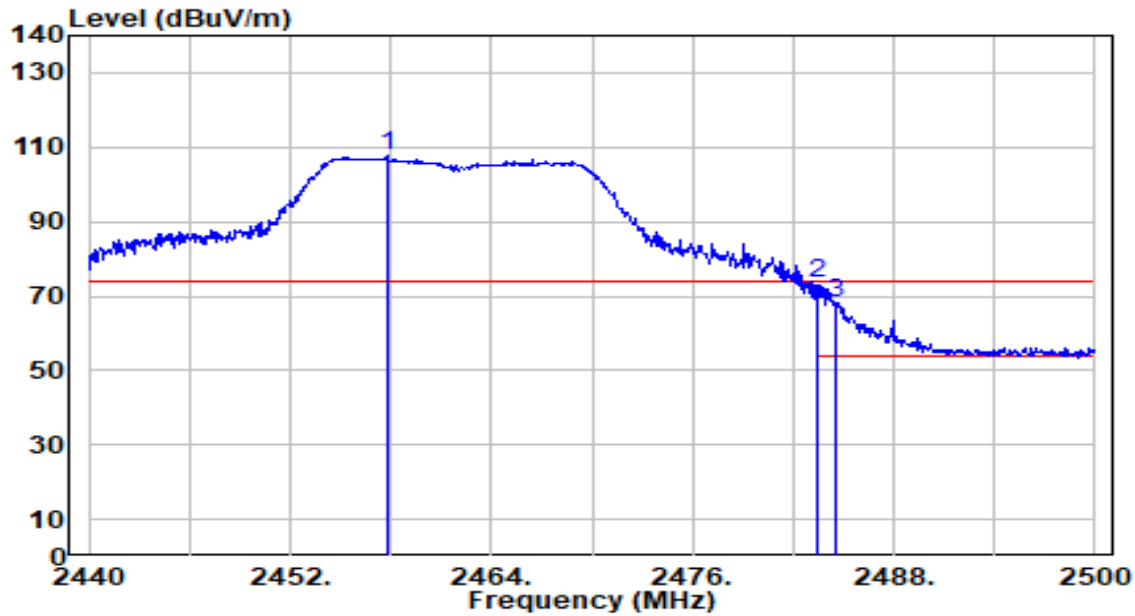


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2389.000	15.41	30.18	45.59	-8.41	54.00	344	175	Average
2	* 2390.000	16.77	30.18	46.95	-7.05	54.00	344	175	Average
3	2408.000	60.13	30.22	90.35	N/A	N/A	344	175	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

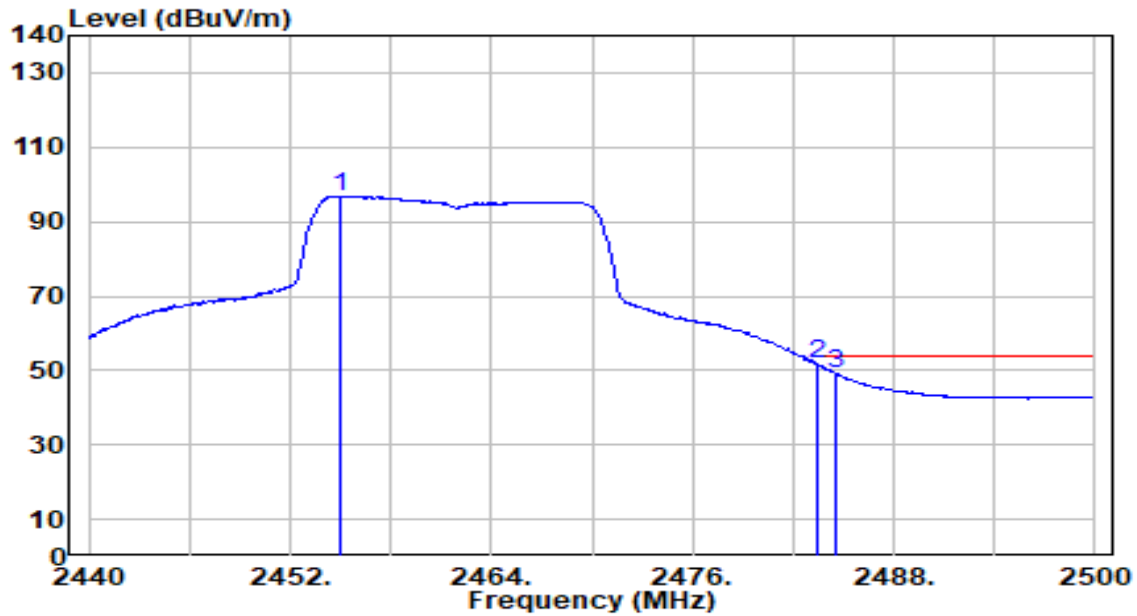


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2457.760	77.25	30.28	107.54	N/A	N/A	146	226	Peak
2	* 2483.500	43.15	30.32	73.47	-0.53	74.00	146	226	Peak
3	2484.520	37.97	30.32	68.29	-5.71	74.00	146	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

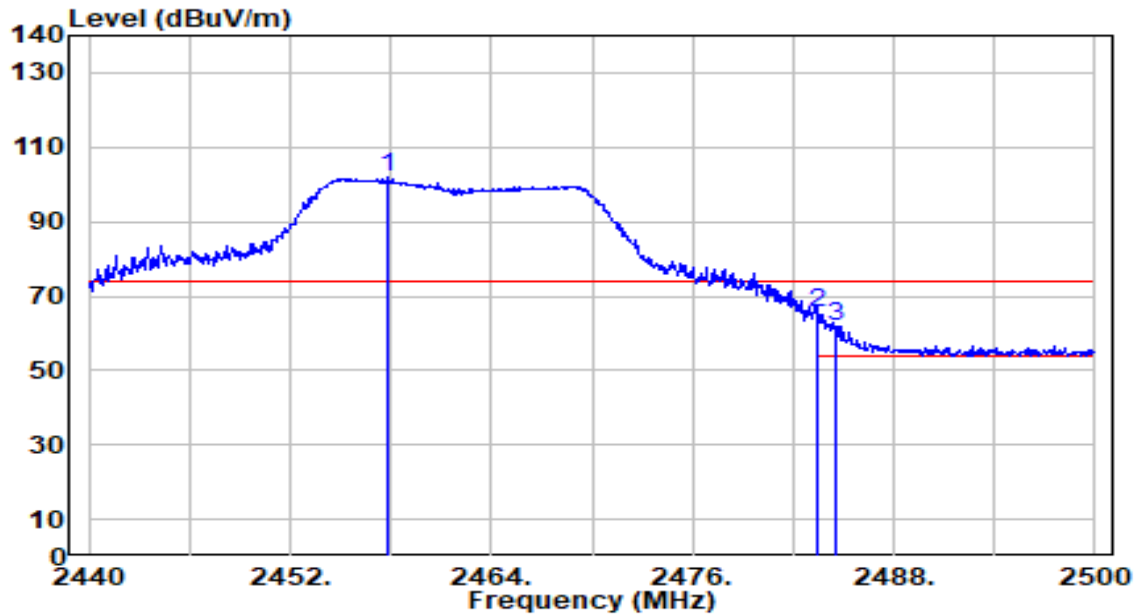


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2455.000	66.50	30.28	96.78	N/A	N/A	146	226	Average
2	* 2483.500	21.37	30.32	51.68	-2.32	54.00	146	226	Average
3	2484.520	18.89	30.32	49.21	-4.79	54.00	146	226	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

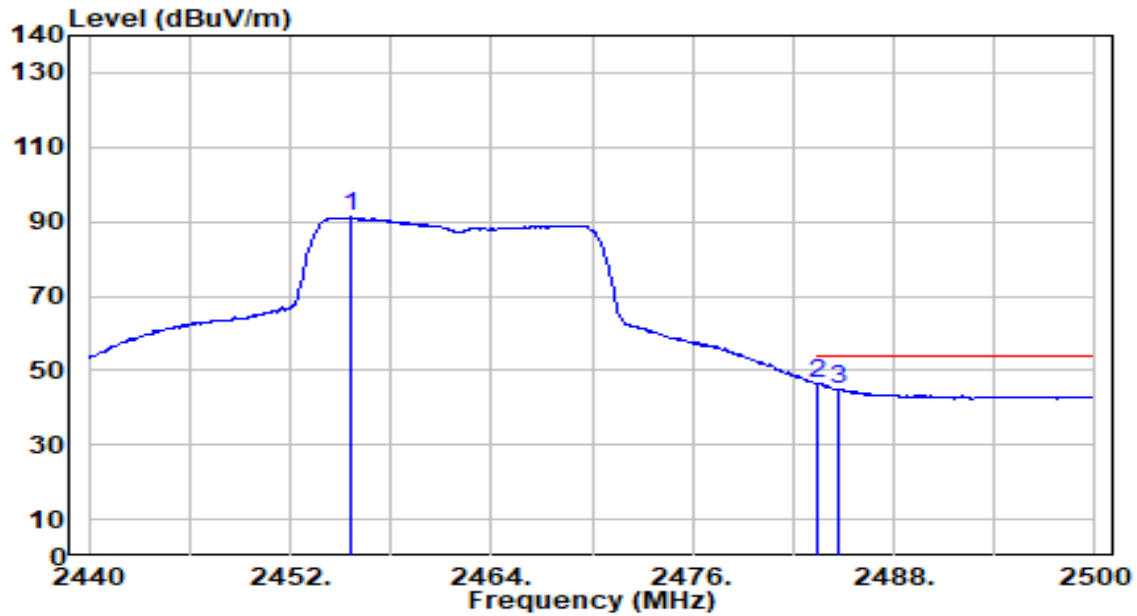


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2457.760	71.93	30.28	102.22	N/A	N/A	384	175	Peak
2	* 2483.500	35.43	30.32	65.74	-8.26	74.00	384	175	Peak
3	2484.520	31.60	30.32	61.92	-12.08	74.00	384	175	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

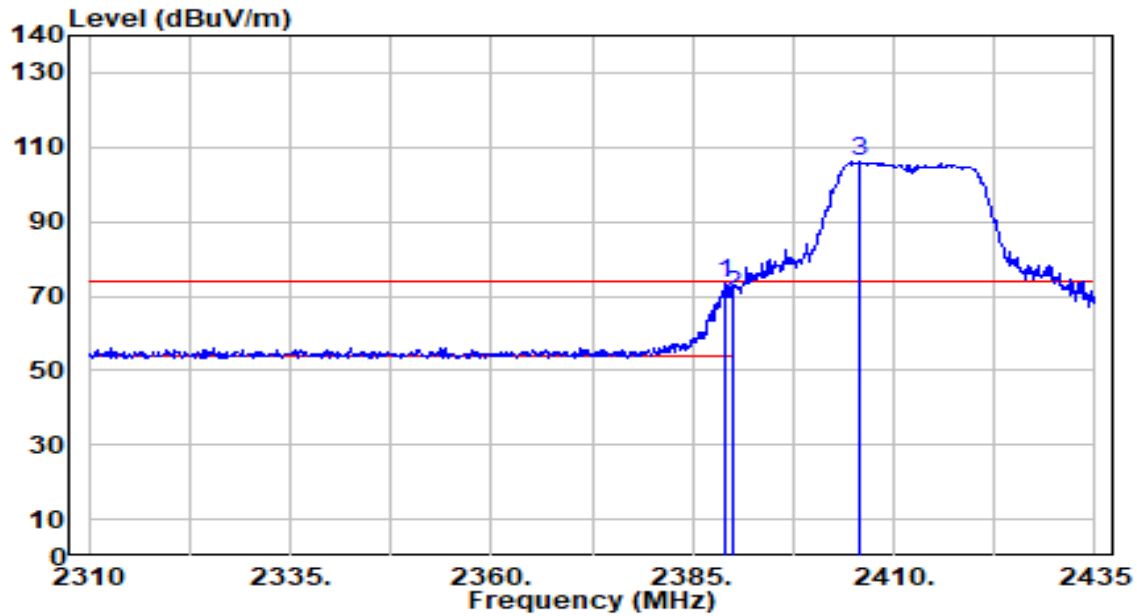


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2455.660	60.89	30.28	91.17	N/A	N/A	384	175	Average
2	* 2483.500	16.10	30.32	46.41	-7.59	54.00	384	175	Average
3	2484.640	14.69	30.32	45.01	-8.99	54.00	384	175	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

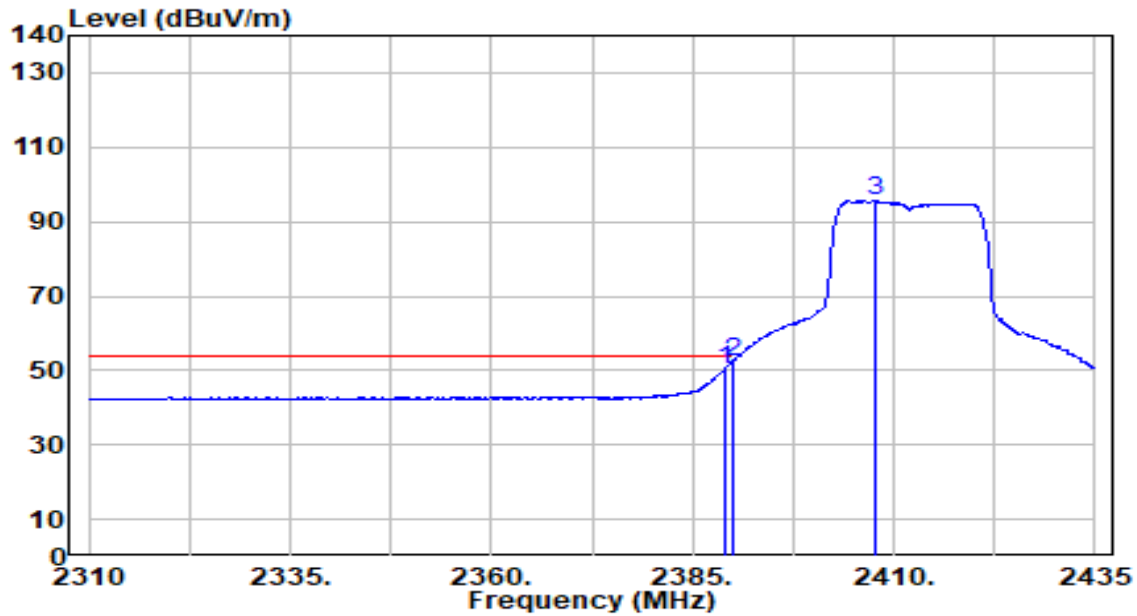


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2389.125	43.31	30.18	73.49	-0.51	74.00	145	226	Peak
2	2390.000	40.06	30.18	70.24	-3.76	74.00	145	226	Peak
3	2405.750	75.98	30.22	106.20	N/A	N/A	145	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

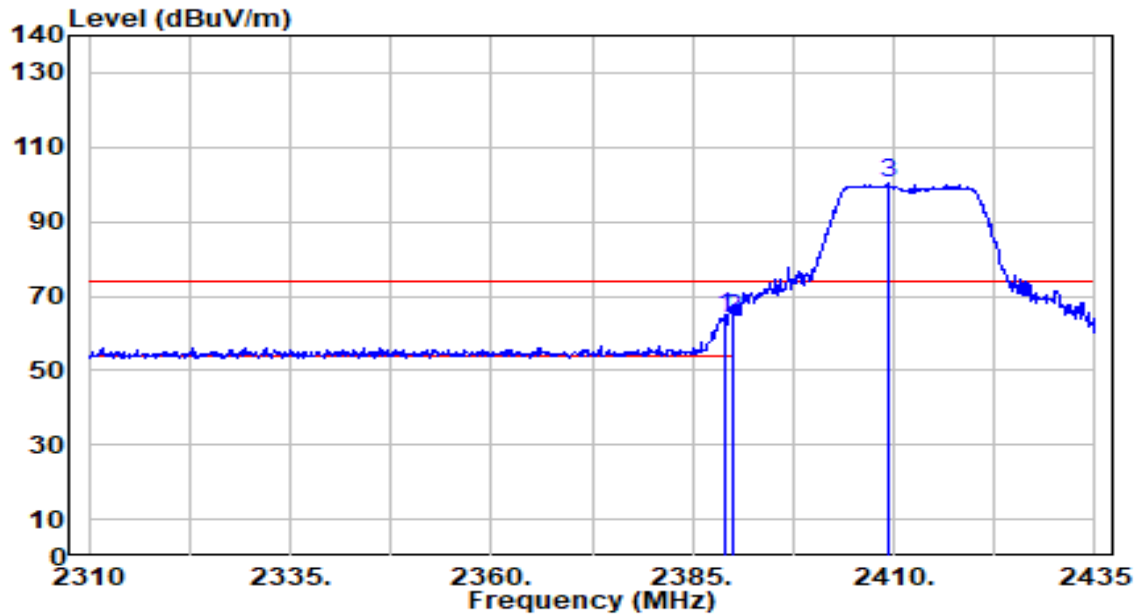


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2389.000	20.19	30.18	50.37	-3.63	54.00	145	226	Average
2	* 2390.000	22.01	30.18	52.19	-1.81	54.00	145	226	Average
3	2407.625	65.37	30.22	95.58	N/A	N/A	145	226	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

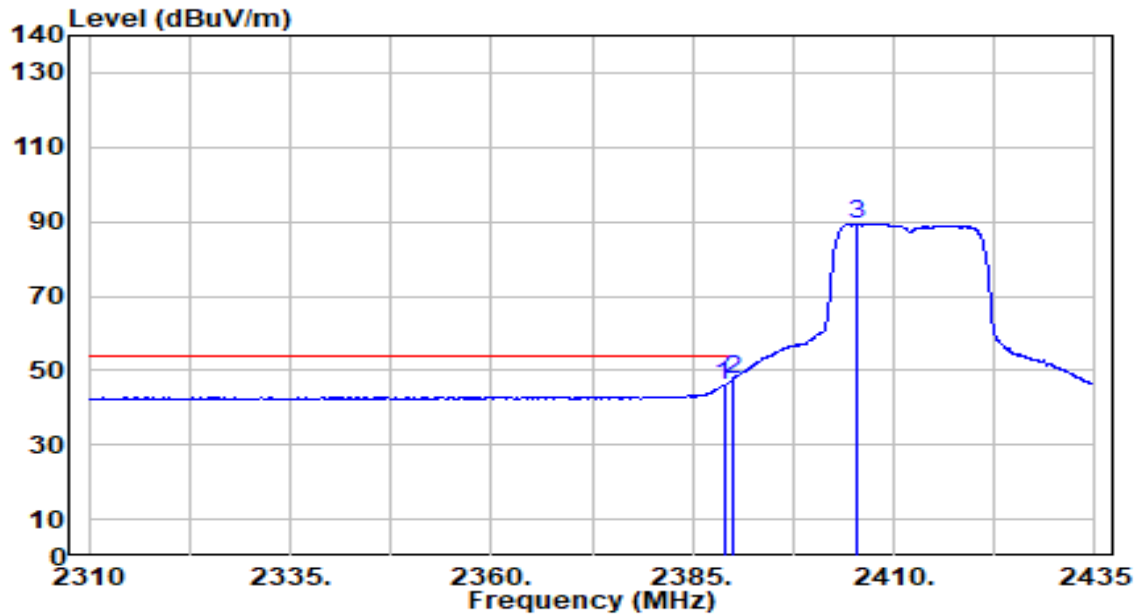


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2389.000	34.51	30.18	64.68	-9.32	74.00	344	175	Peak
2	2390.000	33.78	30.18	63.96	-10.04	74.00	344	175	Peak
3	2409.250	70.04	30.22	100.26	N/A	N/A	344	175	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

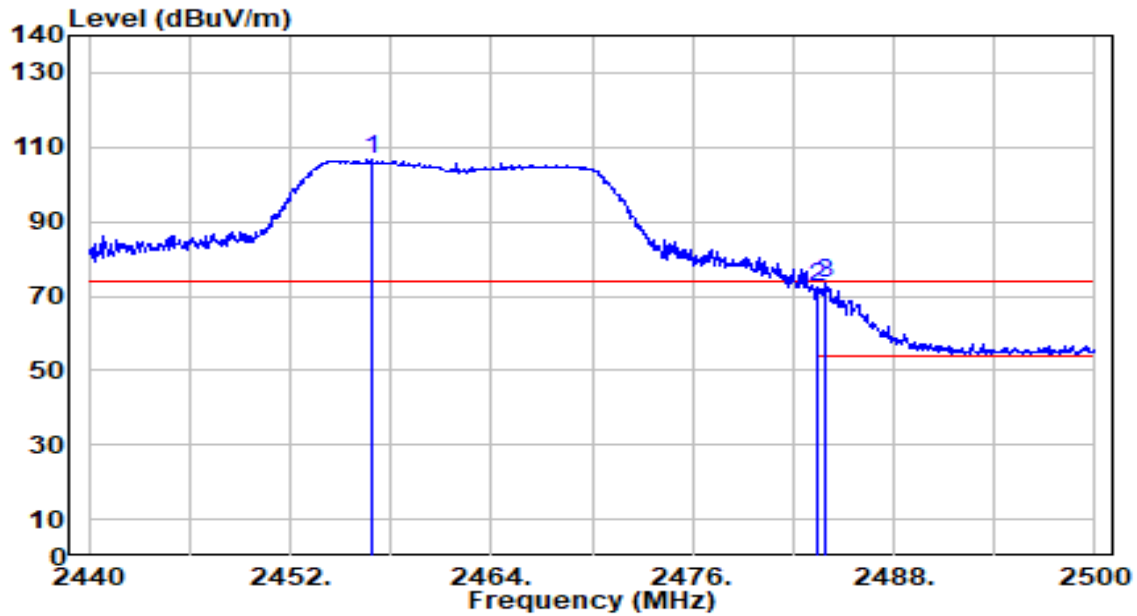


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.875	15.87	30.18	46.05	-7.95	54.00	344	175	Average
2	* 2390.000	17.43	30.18	47.61	-6.39	54.00	344	175	Average
3	2405.500	59.19	30.22	89.40	N/A	N/A	344	175	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

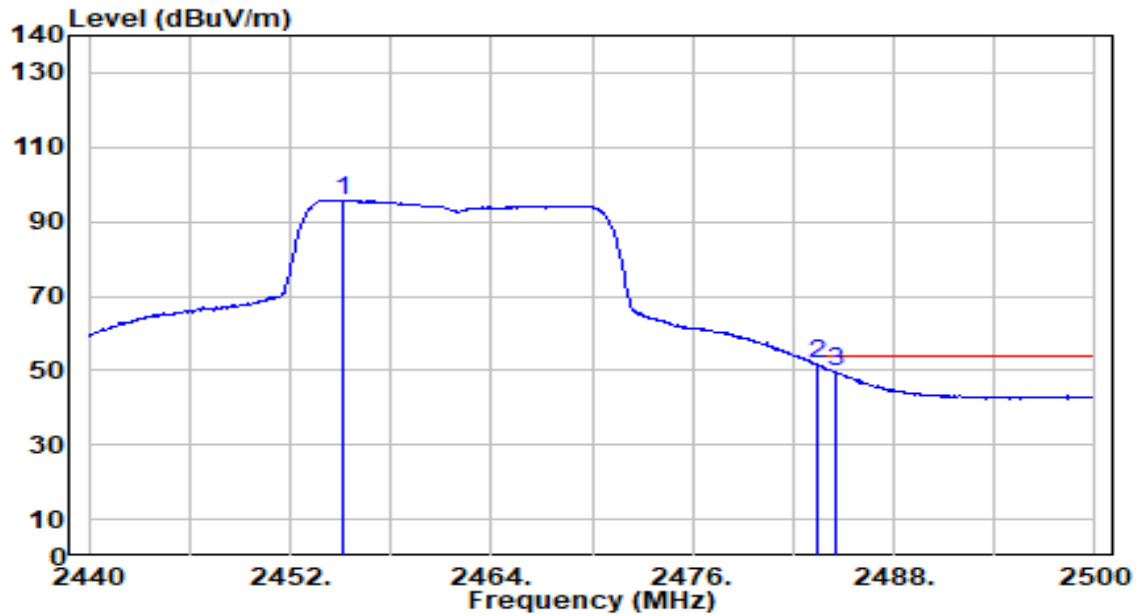


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2456.860	76.53	30.28	106.82	N/A	N/A	144	226	Peak
2	2483.500	41.98	30.32	72.30	-1.70	74.00	144	226	Peak
3	* 2483.980	43.10	30.32	73.42	-0.58	74.00	144	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

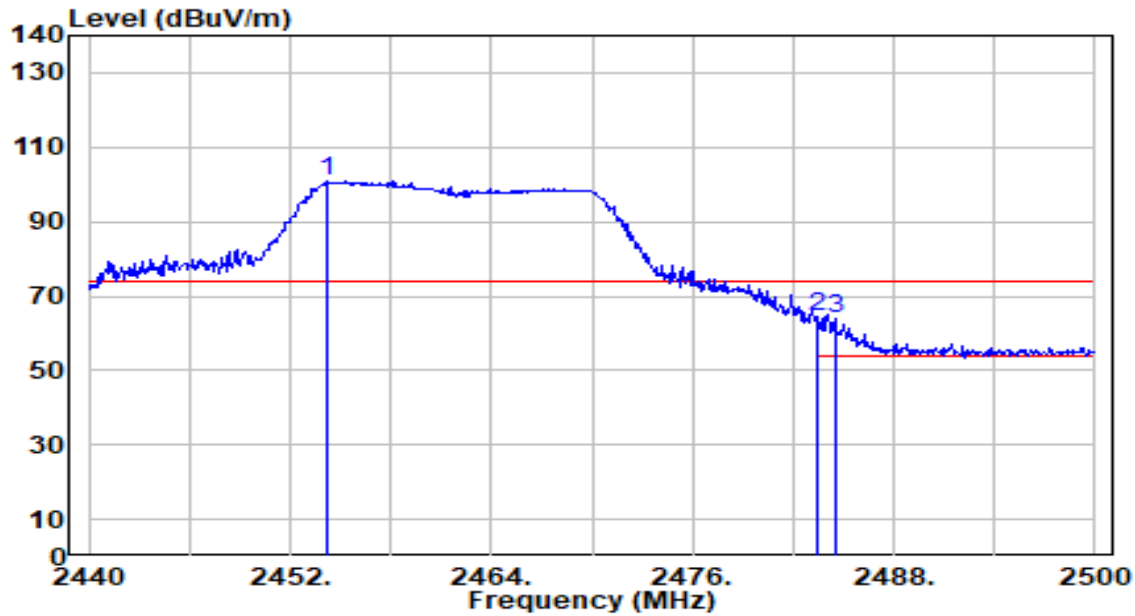


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2455.180	65.53	30.28	95.81	N/A	N/A	144	226	Average
2	* 2483.500	21.43	30.32	51.75	-2.25	54.00	144	226	Average
3	2484.520	19.47	30.32	49.79	-4.21	54.00	144	226	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

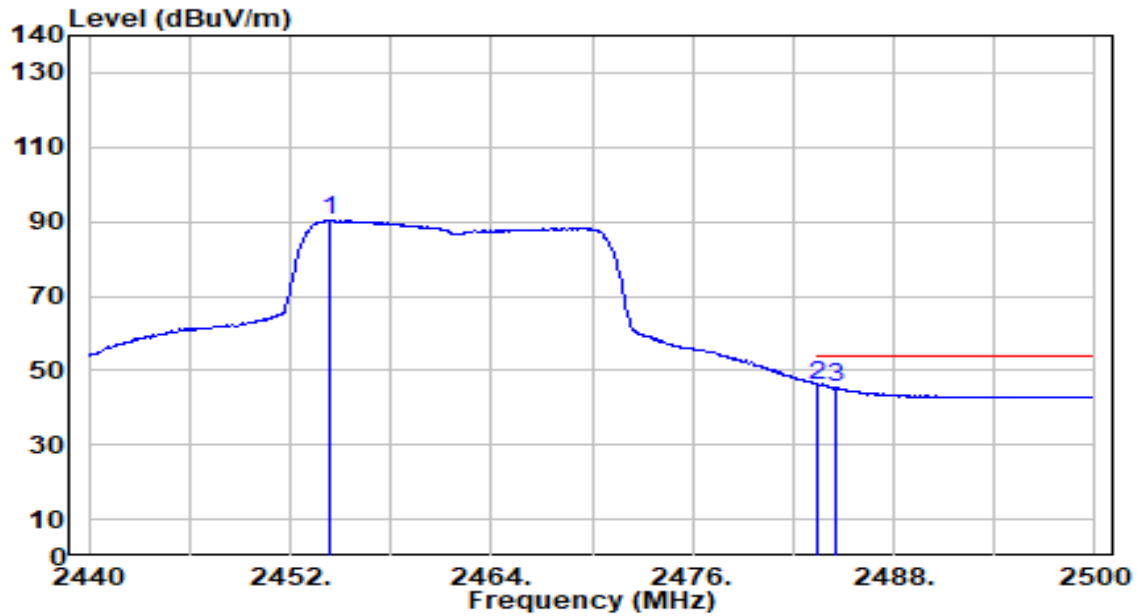


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2454.280	70.64	30.28	100.92	N/A	N/A	385	175	Peak
2	* 2483.500	33.91	30.32	64.23	-9.77	74.00	385	175	Peak
3	2484.520	33.66	30.32	63.98	-10.02	74.00	385	175	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

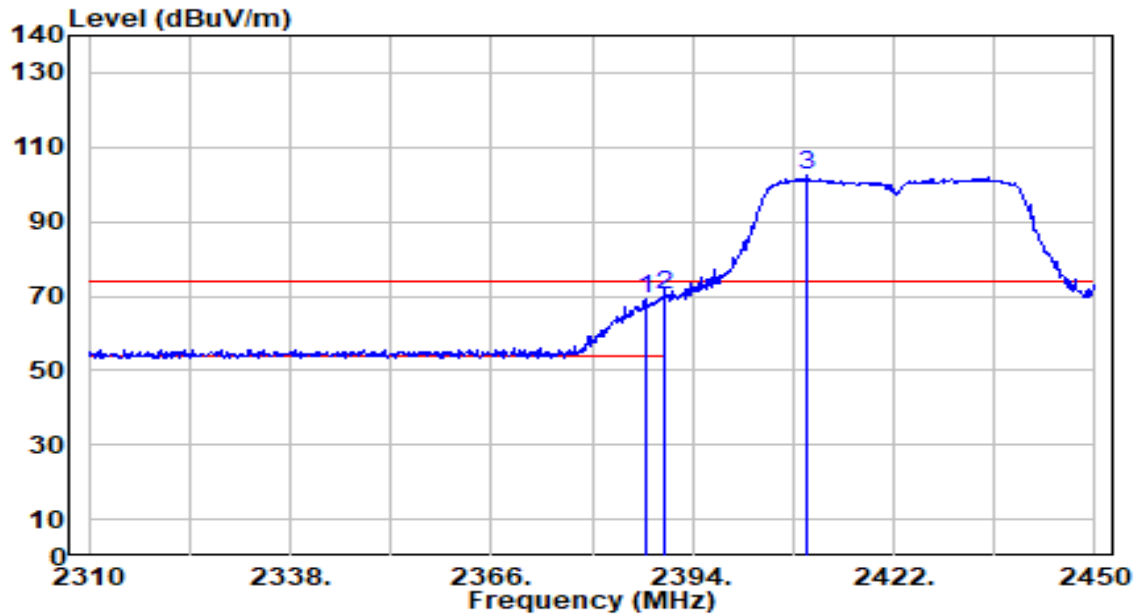


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2454.400	60.00	30.28	90.27	N/A	N/A	385	175	Average
2	* 2483.500	15.87	30.32	46.19	-7.81	54.00	385	175	Average
3	2484.580	14.88	30.32	45.20	-8.80	54.00	385	175	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0	Test Voltage	AC 120V/60Hz

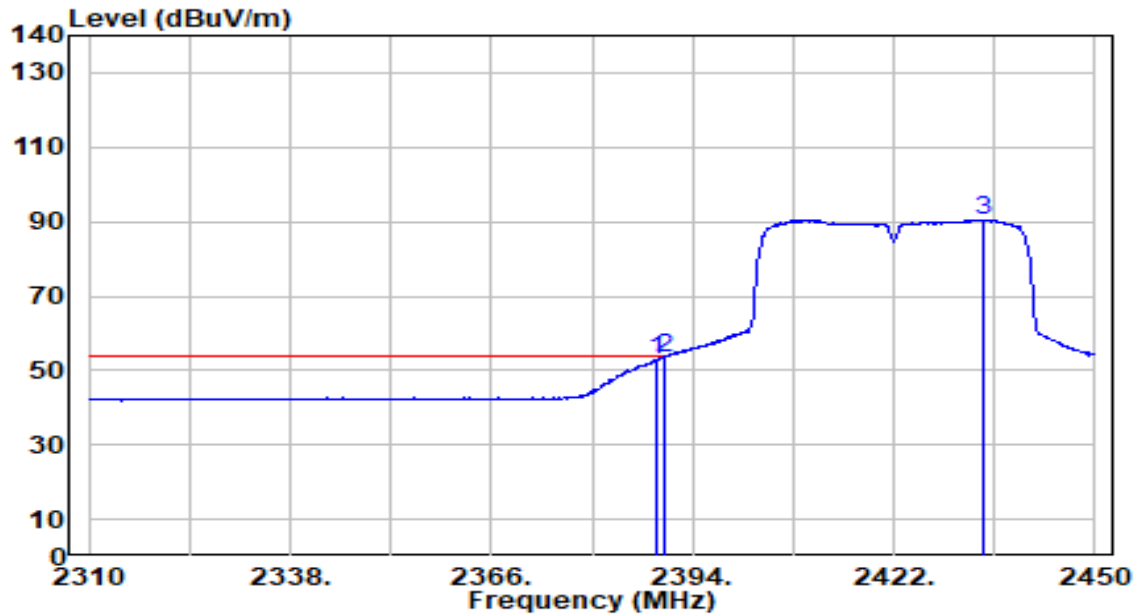


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.420	39.15	30.17	69.32	-4.68	74.00	145	226	Peak
2	* 2390.000	39.85	30.18	70.03	-3.97	74.00	145	226	Peak
3	2409.960	72.25	30.22	102.47	N/A	N/A	145	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0	Test Voltage	AC 120V/60Hz

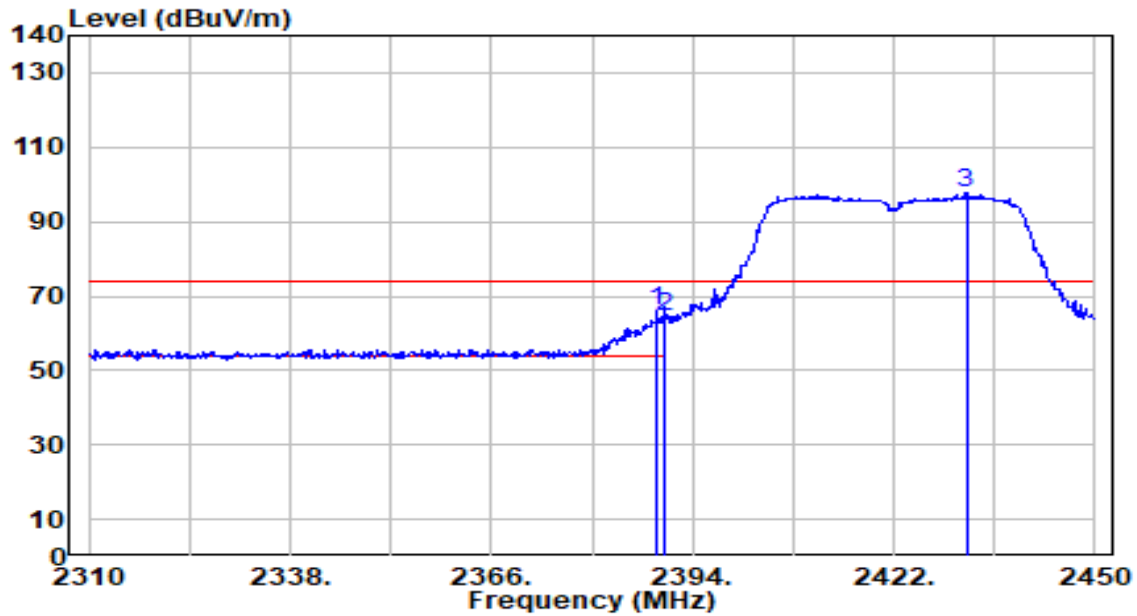


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.960	22.86	30.18	53.04	-0.96	54.00	145	226	Average
2	* 2390.000	23.31	30.18	53.49	-0.51	54.00	145	226	Average
3	2434.460	60.28	30.25	90.53	N/A	N/A	145	226	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0	Test Voltage	AC 120V/60Hz

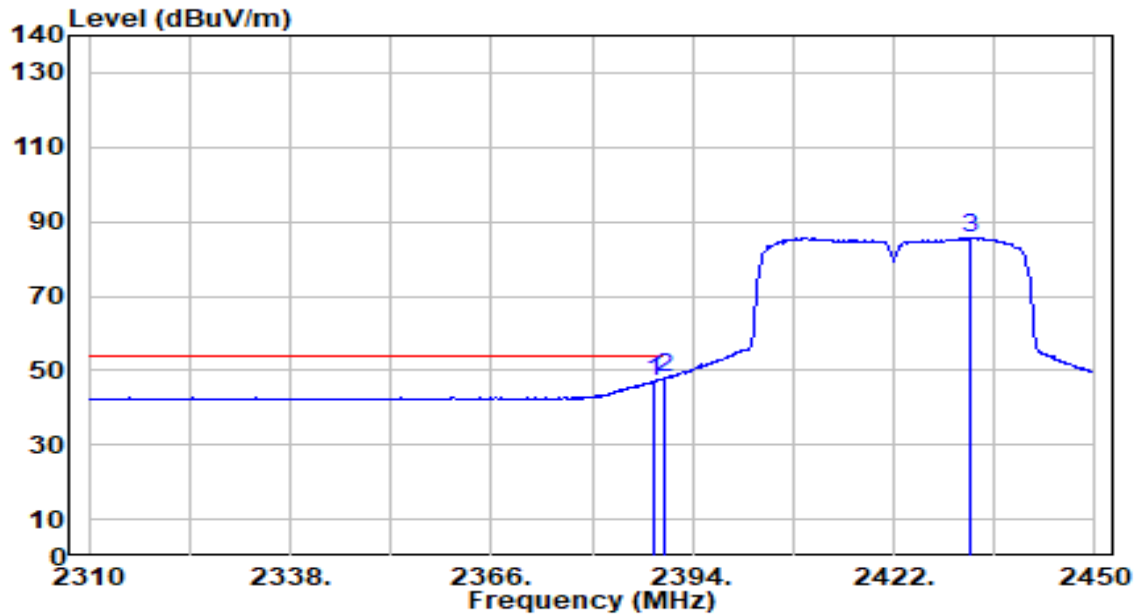


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.960	35.60	30.18	65.78	-8.22	74.00	390	172	Peak
2		2390.000	34.14	30.18	64.32	-9.68	74.00	390	172	Peak
3		2432.080	67.50	30.25	97.75	N/A	N/A	390	172	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0	Test Voltage	AC 120V/60Hz

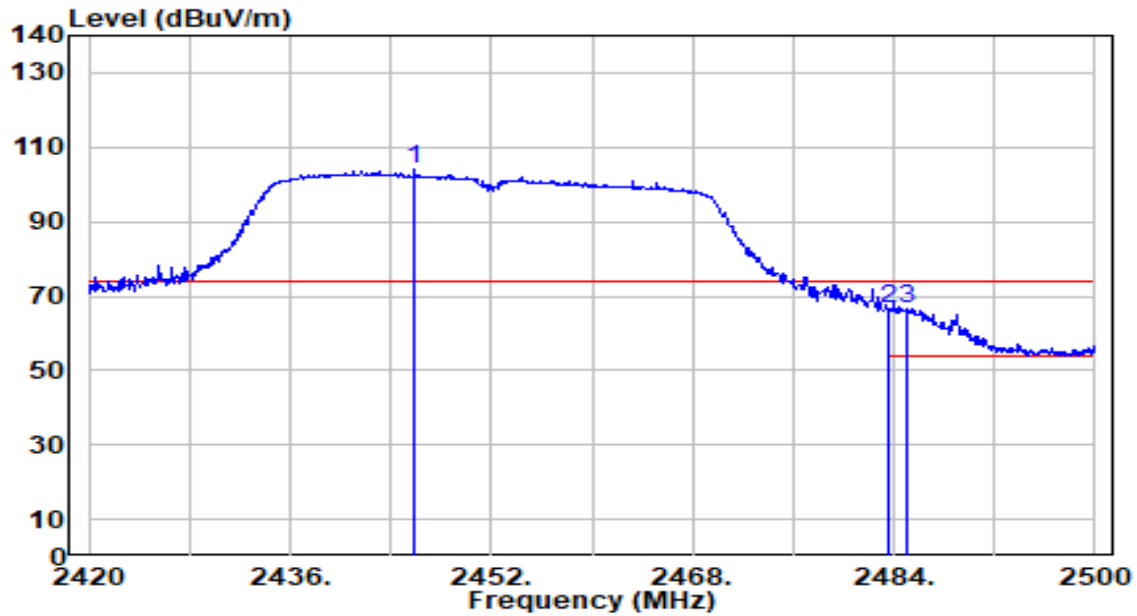


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.680	16.93	30.18	47.11	-6.89	54.00	390	172	Average
2	* 2390.000	17.88	30.18	48.06	-5.94	54.00	390	172	Average
3	2432.640	55.38	30.25	85.63	N/A	N/A	390	172	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0	Test Voltage	AC 120V/60Hz

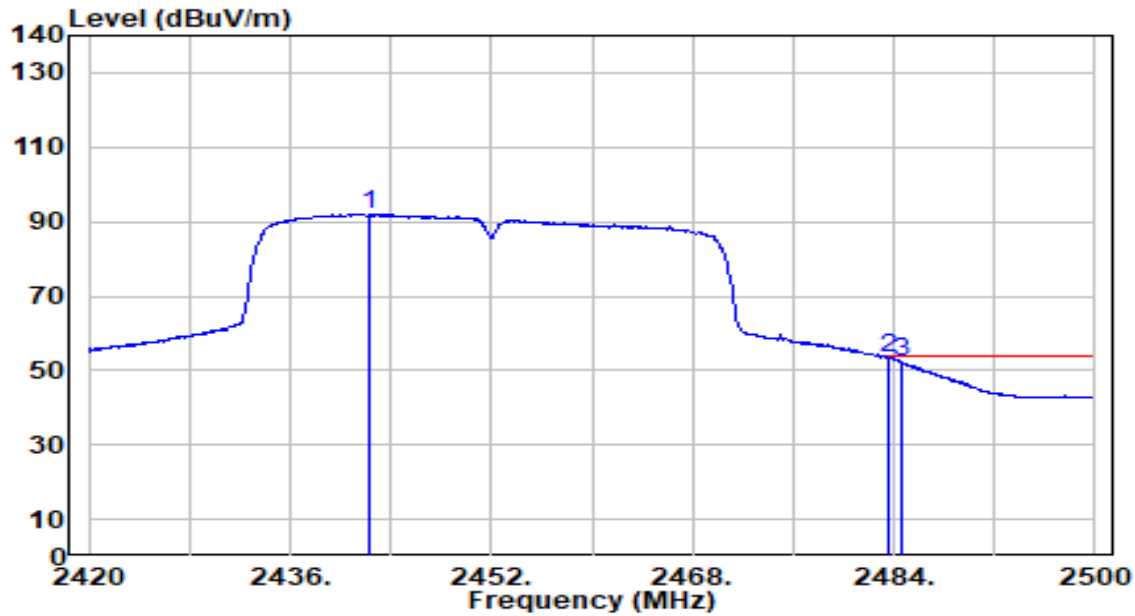


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2445.840	73.73	30.27	104.00	N/A	N/A	145	226	Peak
2	2483.500	36.34	30.32	66.66	-7.34	74.00	145	226	Peak
3	* 2484.960	36.48	30.32	66.80	-7.20	74.00	145	226	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0	Test Voltage	AC 120V/60Hz

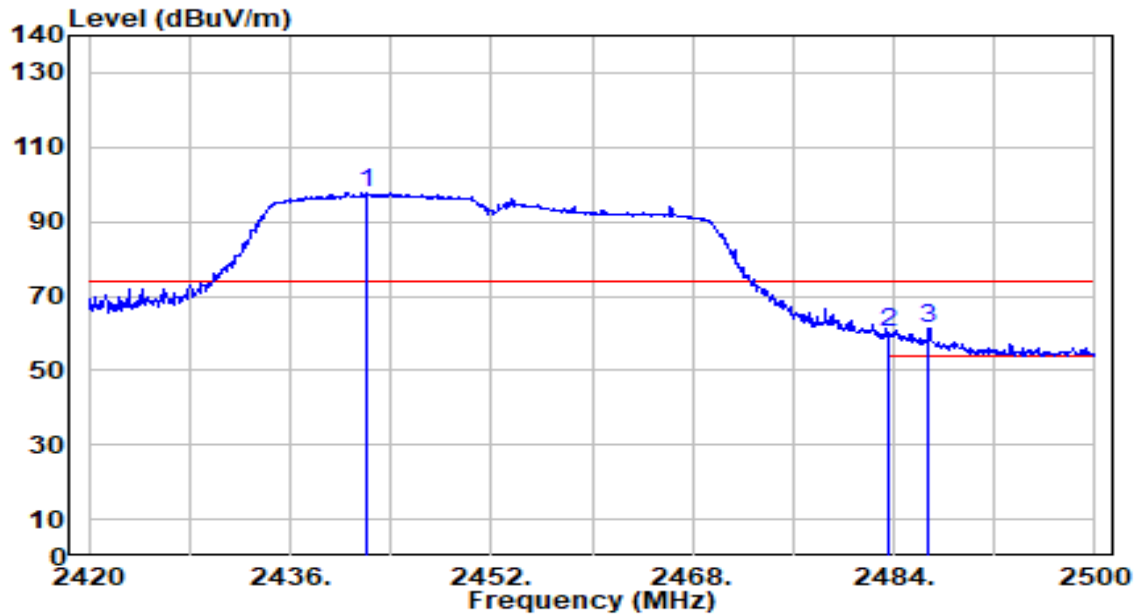


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2442.240	61.84	30.26	92.11	N/A	N/A	145	226	Average
2	* 2483.500	23.18	30.32	53.50	-0.50	54.00	145	226	Average
3	2484.640	21.81	30.32	52.13	-1.87	54.00	145	226	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0	Test Voltage	AC 120V/60Hz

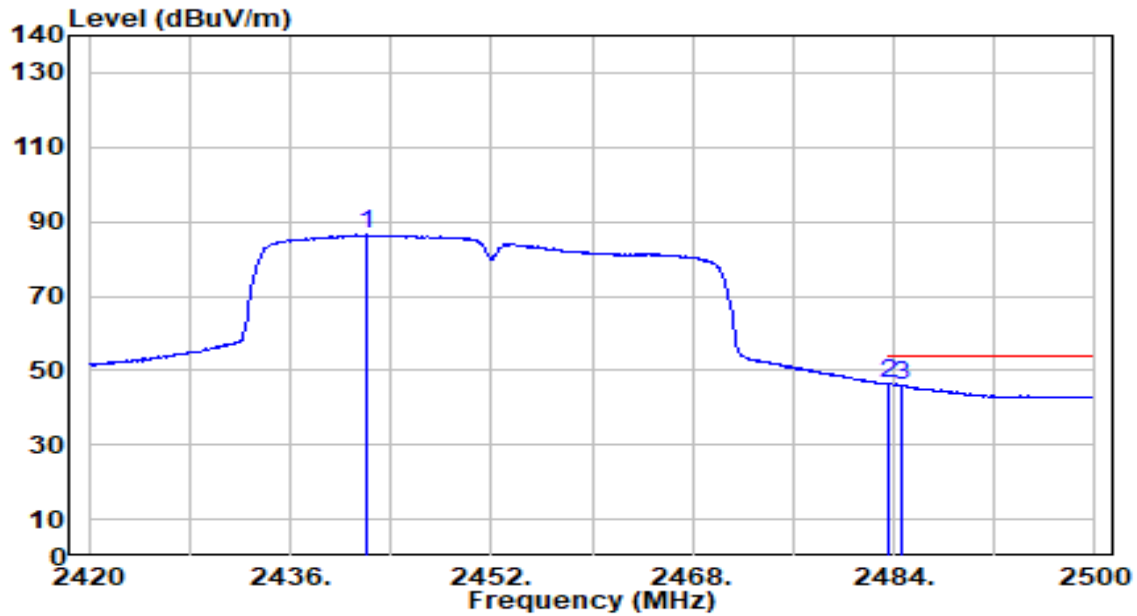


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2442.000	67.39	30.26	97.66	N/A	N/A	391	175	Peak
2	2483.500	29.73	30.32	60.05	-13.95	74.00	391	175	Peak
3	* 2486.800	30.91	30.32	61.24	-12.76	74.00	391	175	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ 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	POS Terminal	Date of Test	2023-10-27
Factor	DRH18-E	Temp. / Humidity	23°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Marvin
Test Mode	802.11n-40MHz_TX_CH 9_ANT 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	2442.000	56.14	30.26	86.40	N/A	N/A	391	175	Average
2	* 2483.500	15.91	30.32	46.23	-7.77	54.00	391	175	Average
3	2484.560	15.66	30.32	45.98	-8.02	54.00	391	175	Average

Note:

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

7.8. AC Conducted Emissions Measurement

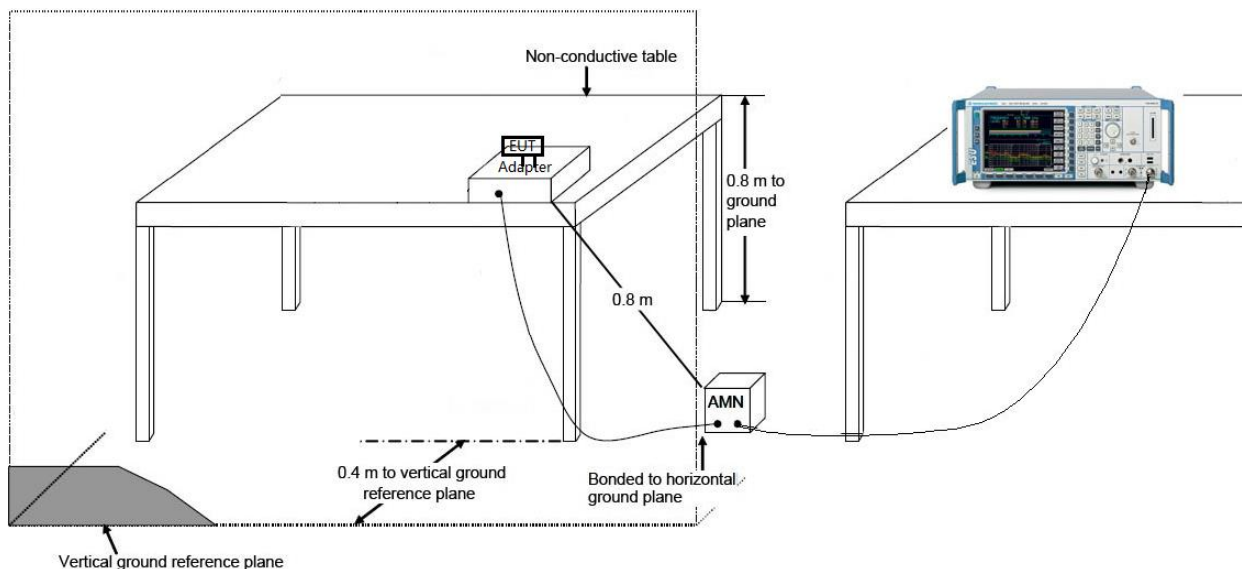
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
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.

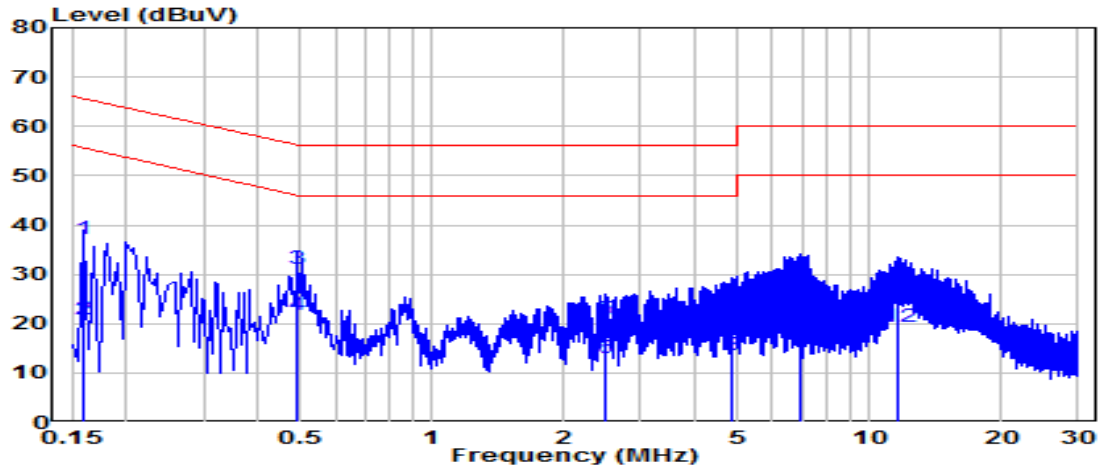
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

EUT	POS Terminal	Date of Test	2023-11-30
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	25.2°C / 53%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

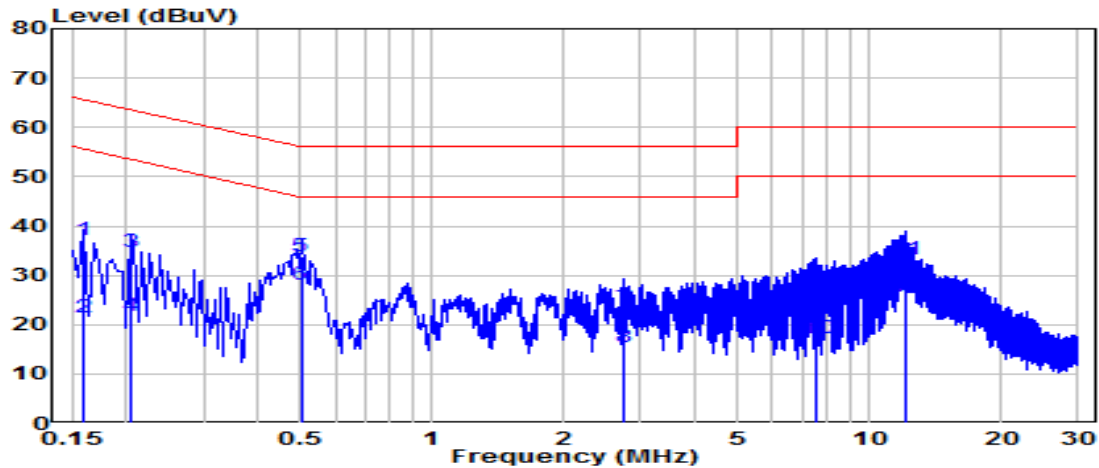


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.159	27.53	9.62	37.15	-28.37	65.52	QP
2	0.159	11.25	9.62	20.87	-34.64	55.52	Average
3	* 0.492	21.44	9.64	31.09	-25.05	56.13	QP
4	* 0.492	12.05	9.64	21.69	-24.44	46.13	Average
5	2.481	11.02	9.70	20.72	-35.28	56.00	QP
6	2.481	3.21	9.70	12.91	-33.09	46.00	Average
7	4.834	14.16	9.74	23.90	-32.10	56.00	QP
8	4.834	3.92	9.74	13.66	-32.34	46.00	Average
9	6.958	18.99	9.79	28.78	-31.22	60.00	QP
10	6.958	5.26	9.79	15.05	-34.95	50.00	Average
11	11.583	17.03	9.87	26.90	-33.10	60.00	QP
12	11.583	9.44	9.87	19.31	-30.69	50.00	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-11-30
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	25.2°C / 53%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

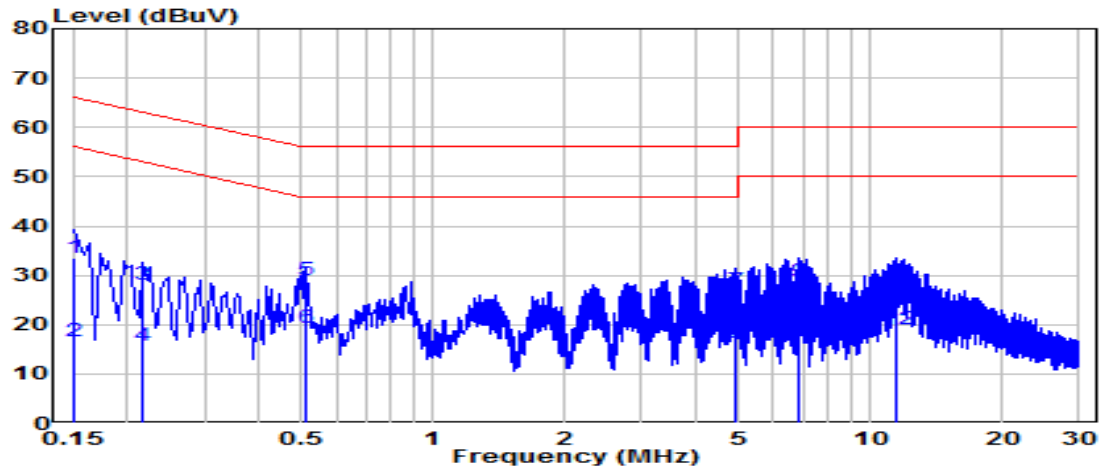


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.159	27.45	9.62	37.07	-28.44	65.52	QP
2	0.159	11.92	9.62	21.54	-33.97	55.52	Average
3	0.204	25.05	9.62	34.67	-28.78	63.45	QP
4	0.204	12.23	9.62	21.85	-31.59	53.45	Average
5	* 0.501	24.26	9.64	33.90	-22.10	56.00	QP
6	* 0.501	18.32	9.64	27.97	-18.03	46.00	Average
7	2.760	13.62	9.71	23.33	-32.67	56.00	QP
8	2.760	5.75	9.71	15.46	-30.54	46.00	Average
9	7.601	17.82	9.81	27.63	-32.37	60.00	QP
10	7.601	7.50	9.81	17.31	-32.69	50.00	Average
11	12.042	23.39	9.89	33.28	-26.72	60.00	QP
12	12.042	15.75	9.89	25.64	-24.36	50.00	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-11-30
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	25.2°C /53%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 240V/60Hz

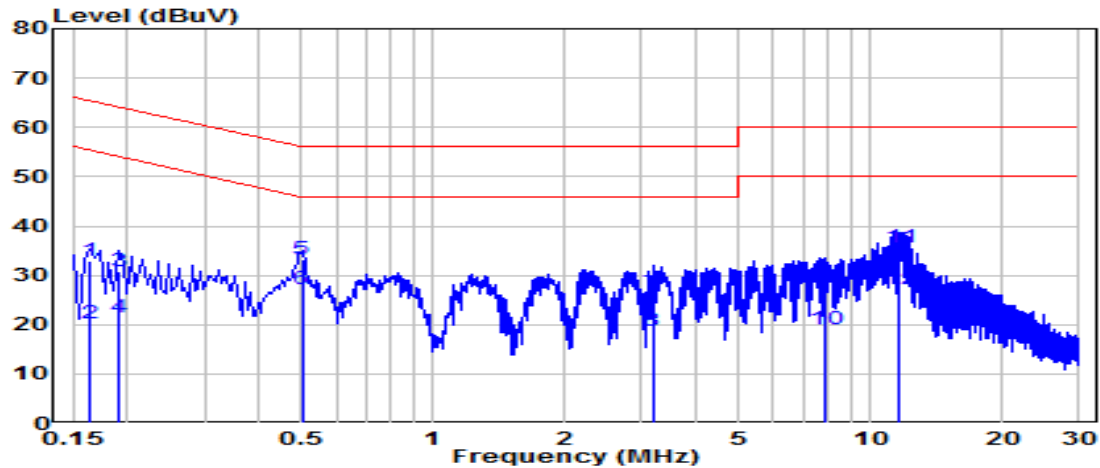


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.150	23.78	9.62	33.40	-32.60	66.00	QP
2	0.150	7.09	9.62	16.71	-39.29	56.00	Average
3	0.217	18.35	9.62	27.97	-34.94	62.91	QP
4	0.217	6.05	9.62	15.68	-37.24	52.91	Average
5	* 0.510	19.29	9.64	28.93	-27.07	56.00	QP
6	* 0.510	9.66	9.64	19.30	-26.70	46.00	Average
7	4.924	17.27	9.74	27.01	-28.99	56.00	QP
8	4.924	6.66	9.74	16.40	-29.60	46.00	Average
9	6.841	18.85	9.79	28.64	-31.36	60.00	QP
10	6.841	5.94	9.79	15.72	-34.28	50.00	Average
11	11.502	15.59	9.87	25.46	-34.54	60.00	QP
12	11.502	9.16	9.87	19.03	-30.97	50.00	Average

Note:

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

EUT	POS Terminal	Date of Test	2023-11-30
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	25.2°C / 53%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 240V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.163	23.27	9.62	32.89	-32.39	65.28	QP
2	0.163	10.64	9.62	20.26	-35.03	55.28	Average
3	0.190	21.23	9.62	30.85	-33.17	64.01	QP
4	0.190	11.76	9.62	21.39	-32.63	54.01	Average
5	* 0.501	23.63	9.64	33.27	-22.73	56.00	QP
6	* 0.501	17.40	9.64	27.04	-18.96	46.00	Average
7	3.174	16.67	9.71	26.38	-29.62	56.00	QP
8	3.174	8.96	9.71	18.67	-27.33	46.00	Average
9	7.885	18.29	9.82	28.10	-31.90	60.00	QP
10	7.885	9.32	9.82	19.13	-30.87	50.00	Average
11	11.687	25.63	9.89	35.52	-24.48	60.00	QP
12	11.687	17.14	9.89	27.03	-22.97	50.00	Average

Note:

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

8. CONCLUSION

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

Appendix A : Test Photograph

Refer to “2310TW8705-UT” file.

Appendix B : External Photograph

Refer to “2310TW8705-UE” file.

Appendix C : Internal Photograph

Refer to “2310TW8705-UI” file.

————— The End —————