

MEASUREMENT REPORT (C2PC for FCC, C2PC for ISED)

FCC ID : XBG-BA1GMNRCH12
IC : 21285-BA1GMNRCH12
Applicant : AVALUE TECHNOLOGY INCORPORATION
Application Type : Certification
Product : Intercom
Model Name : Monarch 12
Model Number : BUTTERFLYMX.M12.1
Trademark : 
FCC Classification : Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s) : Part 15 Subpart E (Section 15.407)
ISED Standard : RSS-247 Issue 3
Test Procedure(s) : ANSI C63.10-2013
Received Date : December 05, 2023
Test Date : December 06~20, 2023

Tested By : 
(Kaunaz Lee)
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
2312TWN801-U5	1.0	Original Report	2024-02-19	

Note:

1. The original report was FCC: 2209TWI301-U5 and IC: 2209TWI301-C5 (Monarch 12 (BUTTERFLYMX.M12.1)). This time, the Power Adapter was added and the WLAN (BT/BLE & Wi-Fi 2.4G/5G) Antenna was changed, so the FCC C2PC & IC C2PC (Conducted Output Power, Spurious Emission & Band Edge, Conduction) is executed.
2. FCC Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.
3. IC Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

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§2.1033 General Information

Applicant	AVALUE TECHNOLOGY INCORPORATION
Applicant Address	7F, 228, Lian-cheng Road, Zhonghe Dist., New Taipei City 235, Taiwan
Manufacturer	ButterflyMX, inc.
Manufacturer Address	44 West 28th Street, 4th Floor New York, NY 10001
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 Subpart E (Section 15.407)
ISED Standard:	RSS-247 Issue 3
Test Device Serial No.	#1-1 ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification	Unlicensed National Information Infrastructure (UNII)

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Fuxing Rd., Taoyuan, Taiwan (R.O.C)

- 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.
- MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
- 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 TELECOM Rules.

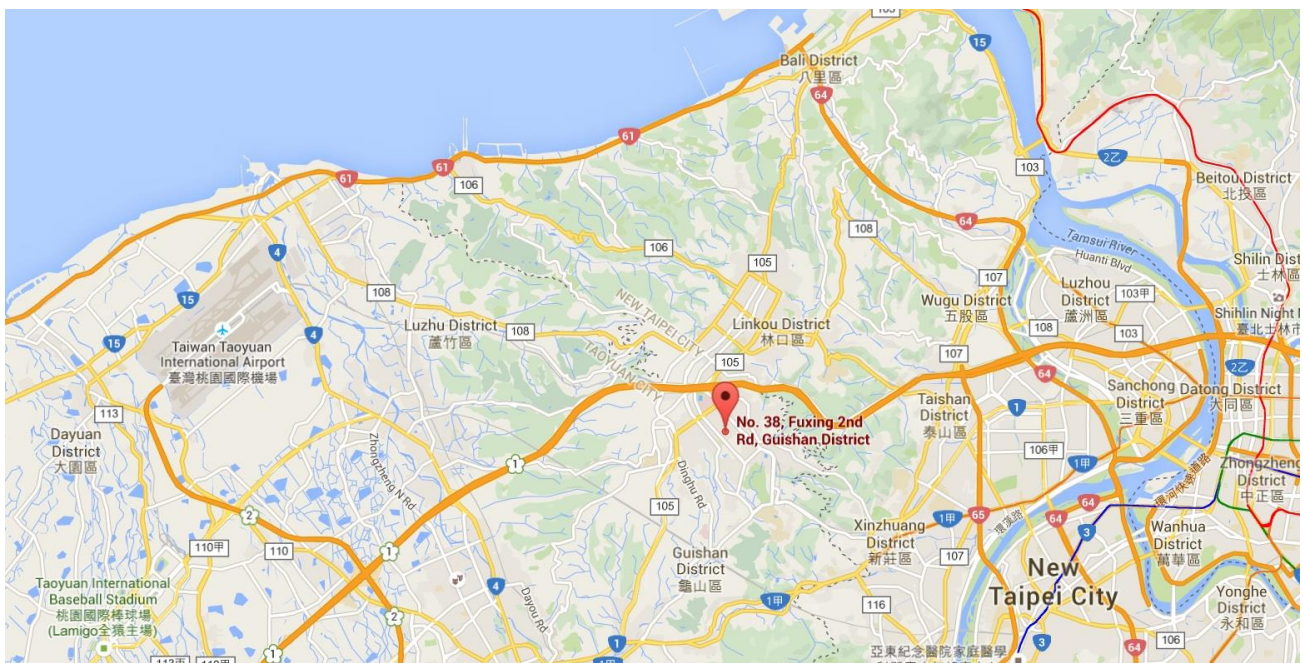
1. INTRODUCTION

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	Intercom
Model Name	Monarch 12
Model Number	BUTTERFLYMX.M12.1
Trademark	
Supports Radios Spec.	WPAN: Bluetooth Dual Mode: V5.0 WLAN: 2.4G: 802.11b/g/n-20/n-40 5G: 802.11a/n-20/ac-20/n-40/ac-40/ac-80, Band 1,4
Wi-Fi Specification	802.11a/n/ac (2TX / 2RX)
Frequency Range:	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 5775MHz
Modulation Type	802.11a/n-20/ac-20/n-40/ac-40/ac-80 OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Accessory	
Power Adapter #1	Brand Name: EDAC Model: EA10731F-240 Input: AC 100-240V~0.2A, 50-60Hz Output: DC 24.0V-2.08A
Power Adapter #2 (This time new addition)	Brand Name: EDAC Model: EA10681H-240 Input: AC 100-240V~2.0A, 50-60Hz Output: DC 24.0V-2.08A 50.0W DC Cable Out: Non-Shielded, 1.2m

2.2. Operation Frequencies and Channel List

802.11 n-HT20/ ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11 n-HT40/ ac-VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz
159	5795 MHz	--	--	--	--

802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	--	--

2.3. Test Mode

Test Mode	Mode 1: Transmit by 802.11a
	Mode 2: Transmit by 802.11n-HT20
	Mode 3: Transmit by 802.11n-HT40
	Mode 4: Transmit by 802.11ac-VHT20
	Mode 5: Transmit by 802.11ac-VHT40
	Mode 6: Transmit by 802.11ac-VHT80
	Mode 7: Receiver by 802.11n-HT20

2.4. Test Software

The test utility software used during testing was “putty”, the version is ver0.78”.

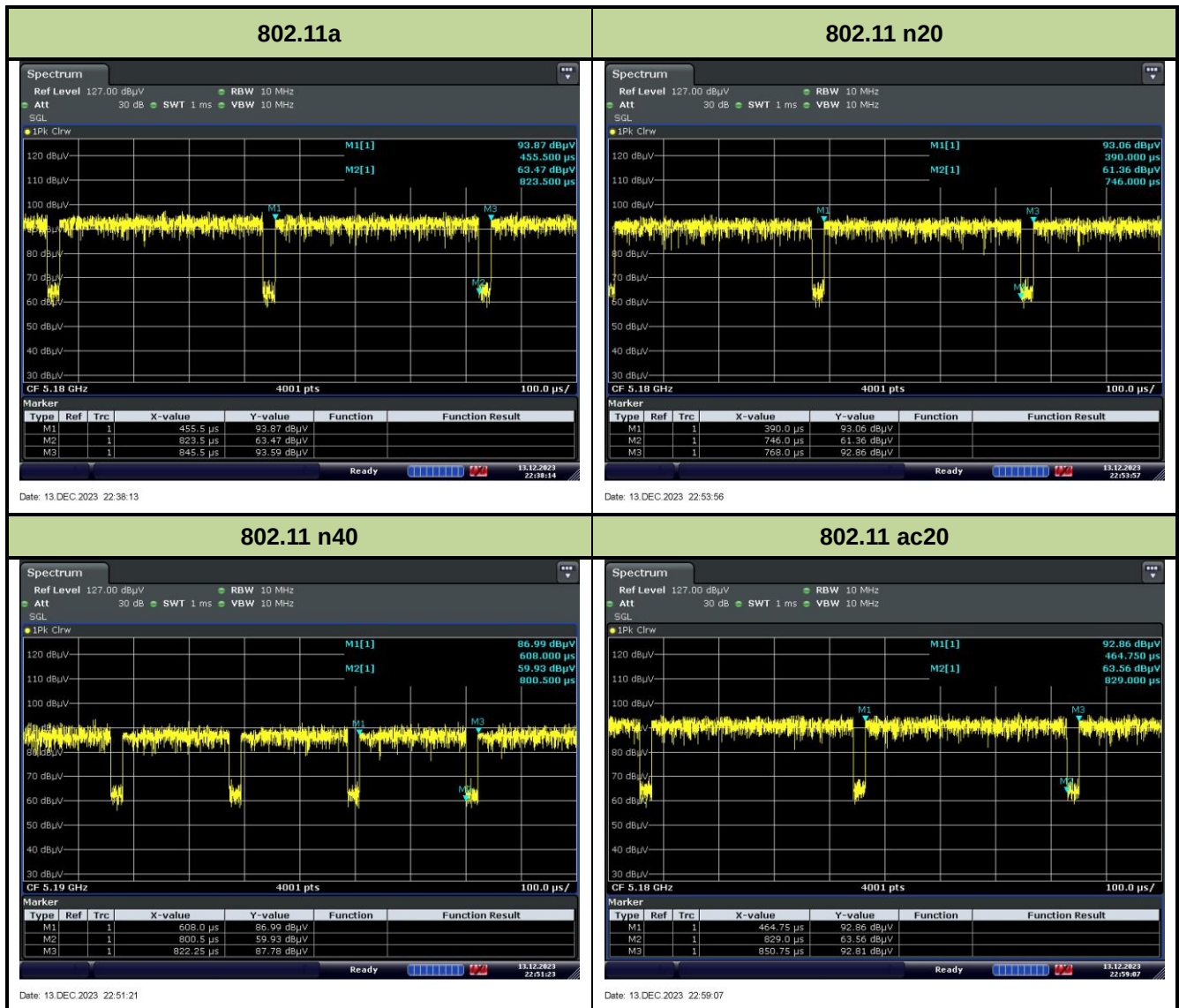
2.5. Device Capabilities

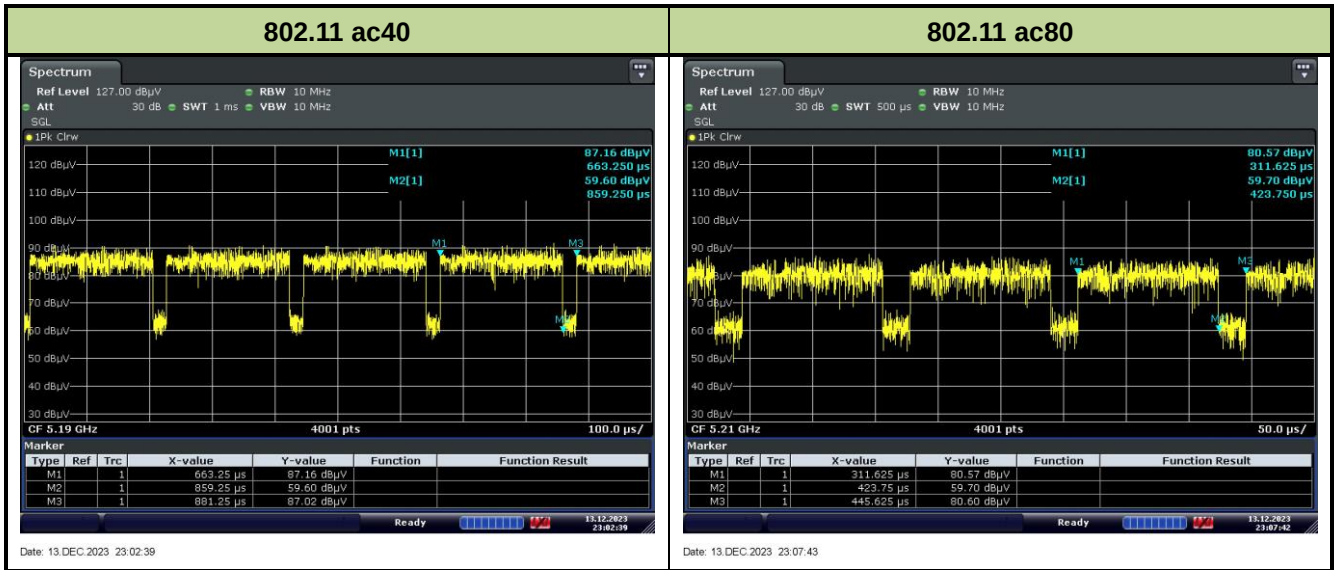
This device contains the following capabilities:

2.4GHz WLAN (DTS) and 5GHz WLAN (NII).

Note: 5GHz (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 10MHz, VBW = 10MHz, and detector = average per the guidance of Section B)2)b) of KDB 789033 D02v02r01. The RBW and VBW were both greater than $50/T$, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11a	94.36%
802.11n-HT20	94.18%
802.11n-HT40	89.85%
802.11ac-VHT20	94.37%
802.11ac-VHT40	89.91%
802.11ac-VHT80	83.68%





2.6. Test Configuration

This device was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

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 789033 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 whichever 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 7.10.

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 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, whichever 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.

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 Intercom, 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	INPAQ TECHNOLOGY CO., LTD. (This time new addition)	WA-P-LB-01-315 and WA-P-LB-02-996	PCB	4.45	Ant 0: 4.45 Ant 1: 4.35	Ant 0_B1: 7.26 Ant 1_B1: 7.77 Ant 0_B4: 8.26 Ant 1_B4: 7.06

5. TEST EQUIPMENT CALIBRATION DATE

Radiated Emissions – AC1

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	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2024/3/24
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2024/3/24
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	FSV40	MRTTWA00007	1 year	2024/3/14
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2024/6/13
Cable	Rosnol	K1K50-UP0264- K1K50-4M	MRTTWE00012	1 year	2024/6/18
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2024/6/4

Conducted Test Equipment – SR6

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2024/4/19
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2024/3/16
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2024/10/17
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2024/7/19
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2024/6/15

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

7. TEST RESULT

7.1. Summary

Product Name: Intercom

FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Section(s)	ISED Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	RSS-247 §6.2.1	26dB Bandwidth	N/A	Conducted	N/A	Section 7.2
15.407(e)	RSS-247 §6.2.4	6dB Bandwidth	≥ 500kHz		N/A	Section 7.3
15.407(a)(1)(i), (2), (3)	RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	Maximum Conducted Output Power	Refer to Section 7.5		Pass	Section 7.4
15.407(h)(1)	RSS-247 §6.2.2, §6.2.3	Transmit Power Control	≤ 24 dBm		N/A	Section 7.5
15.407(a)(1)(i), (2), (3), (5)	RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	Power Spectral Density	Refer to Section 7.7		N/A	Section 7.6
15.407(b)(1), (4)	RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	Undesirable Emissions	≤ -27dBm/MHz EIRP ≤ -17dBm/MHz EIRP	Radiated	Pass	Section 7.7 & 7.8
15.205, 15.209 15.407(b)(5), (6), (7)	RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		Pass	
15.207	RSS-Gen 8.8	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.9

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 channels, modes, and modulations/data rates were investigated among all UNII bands. 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.

7.2. 26dB Bandwidth Measurement

7.2.1. Test Limit

N/A

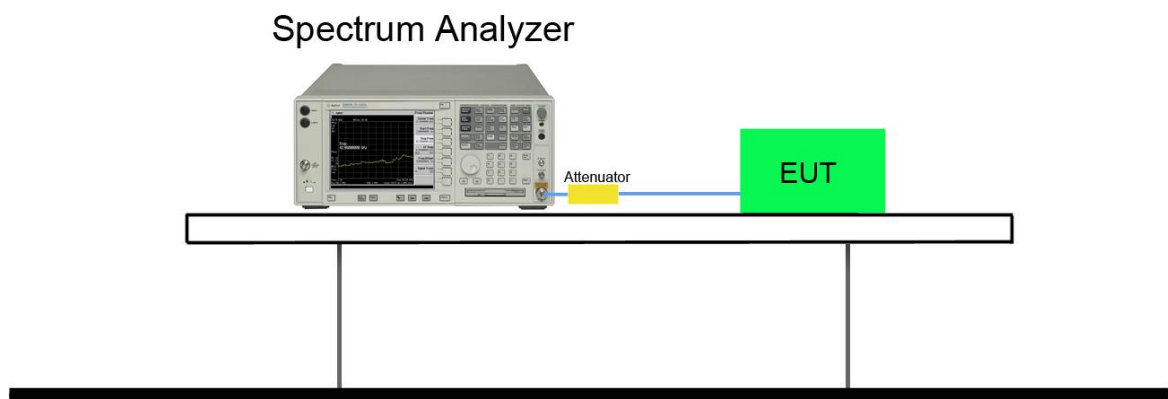
7.2.2. Test Procedure used

KDB 789033 D02v02r01 - Section C.1

7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.2.4. Test Setup



7.2.5. Test Result

Note 1: Reference Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

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

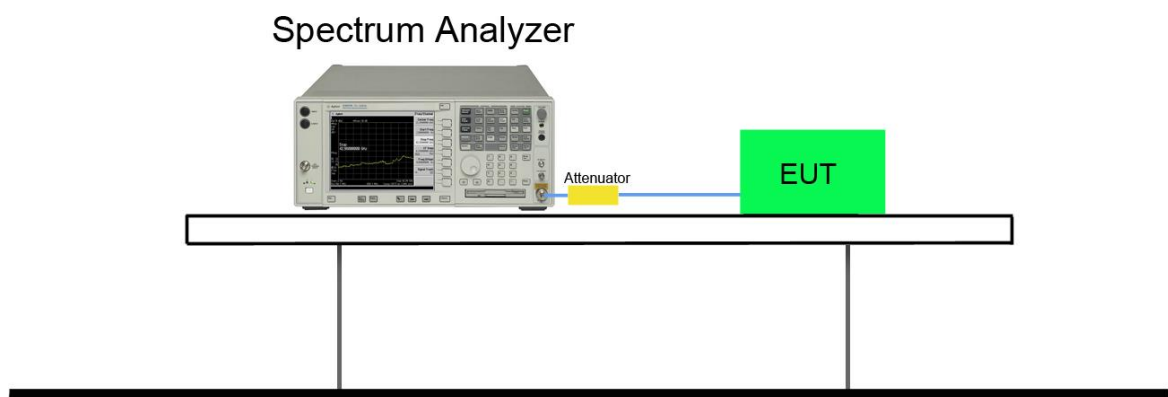
7.3.2. Test Procedure used

KDB 789033 D02v02r01 - Section C.2

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. 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 to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.4. Test Setup



7.3.5. Test Result

Note 1: Reference Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

7.4. Output Power Measurement

7.4.1. Test Limit

For FCC Power Measurement Limit

For client operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 250mW.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (23.98dBm) or $11\text{dBm} + 10 \log(26\text{dB BW})$.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

For IC Power Measurement Limit

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or $10 + 10 \cdot \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (23.98dBm) or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W (30dBm) or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

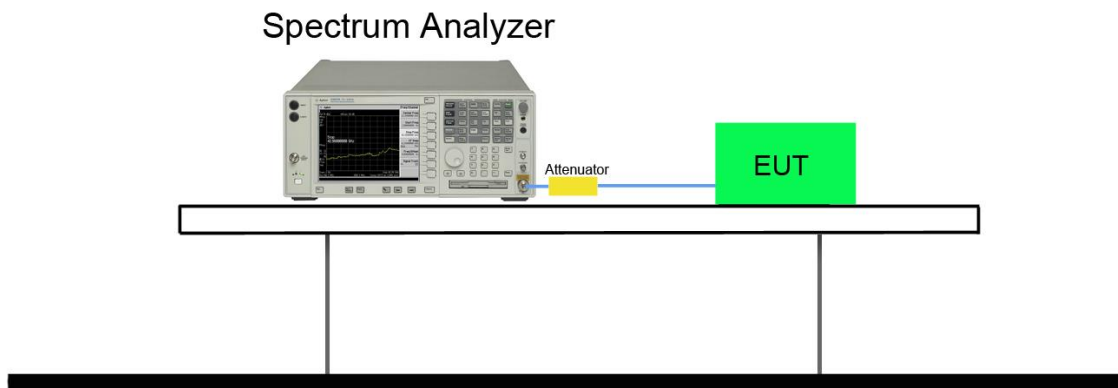
7.4.2. Test Procedure Used

KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

7.4.3. Test Setting

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.

7.4.4. Test Setup



7.4.5. Test Result

FCC Power:

Model	Rate	Ch.	Freq. (MHz)	Ant 0 Power (dBm)	Ant 1 Power (dBm)	Ant 0+1 Power (dBm)	Power Limit (dBm)
802.11a Band1	6M	36	5180	12.24	12.20	15.23	22.21
	6M	44	5220	15.62	15.02	18.34	22.21
	6M	48	5240	15.61	15.44	18.54	22.21
802.11a Band4	6M	149	5745	13.05	12.30	15.70	27.74
	6M	157	5785	15.41	14.83	18.14	27.74
	6M	165	5825	15.06	14.58	17.84	27.74
n-HT20 Band1	MCS0	36	5180	11.50	11.24	14.38	22.21
	MCS0	44	5220	15.84	15.55	18.71	22.21
	MCS0	48	5240	15.80	15.83	18.83	22.21
n-HT20 Band4	MCS0	149	5745	14.45	14.02	17.25	27.74
	MCS0	157	5785	15.61	15.12	18.38	27.74
	MCS0	165	5825	15.68	15.17	18.44	27.74
ac-VHT20 Band1	MCS0	36	5180	12.30	11.89	15.11	22.21
	MCS0	44	5220	16.07	15.67	18.88	22.21
	MCS0	48	5240	16.17	15.75	18.98	22.21
ac-VHT20 Band4	MCS0	149	5745	14.24	13.64	16.96	27.74
	MCS0	157	5785	15.45	15.02	18.25	27.74
	MCS0	165	5825	15.50	14.77	18.16	27.74
n-HT40 Band1	MCS0	38	5190	8.30	8.06	11.19	22.21
	MCS0	46	5230	15.11	14.84	17.99	22.21
n-HT40 Band4	MCS0	151	5755	13.22	12.48	15.88	27.74
	MCS0	159	5795	15.58	15.08	18.35	27.74
ac-VHT40 Band1	MCS0	38	5190	11.30	10.68	14.01	22.21
	MCS0	46	5230	15.13	14.42	17.80	22.21
ac-VHT40 Band4	MCS0	151	5755	13.28	12.44	15.89	27.74
	MCS0	159	5795	15.52	14.72	18.15	27.74
ac-VHT80 Band1	MCS0	42	5210	3.03	3.18	6.12	22.21
ac-VHT80 Band4	MCS0	155	5775	13.05	12.90	15.99	27.74

Note: The Total Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Power} / 10)} + 10^{(\text{Ant 1 Power} / 10)}\}$.

IC Power:

Model	Rate	Ch.	Freq. (MHz)	Ant 0 AV Power (dBm)	Ant 1 AV Power (dBm)	Total Power (dBm)	Power Limit (dBm)	Ant Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
802.11a Band1	6M	36	5180	7.32	6.94	10.14	N/A	10.78	20.92	22.94
	6M	44	5220	6.90	6.32	9.63	N/A	10.78	20.41	22.94
	6M	48	5240	7.03	6.54	9.80	N/A	10.78	20.58	22.94
802.11a Band4	6M	149	5745	13.05	12.30	15.70	30.00	N/A	N/A	N/A
	6M	157	5785	15.41	14.83	18.14	30.00	N/A	N/A	N/A
	6M	165	5825	15.06	14.58	17.84	30.00	N/A	N/A	N/A
n-HT20 Band1	MCS0	36	5180	7.49	7.13	10.32	N/A	10.78	21.10	22.93
	MCS0	44	5220	7.02	6.66	9.85	N/A	10.78	20.63	22.93
	MCS0	48	5240	7.18	6.92	10.06	N/A	10.78	20.84	22.93
n-HT20 Band4	MCS0	149	5745	14.45	14.02	17.25	30.00	N/A	N/A	N/A
	MCS0	157	5785	15.61	15.12	18.38	30.00	N/A	N/A	N/A
	MCS0	165	5825	15.68	15.17	18.44	30.00	N/A	N/A	N/A
ac-VHT20 Band1	MCS0	36	5180	7.51	7.20	10.37	N/A	10.78	21.15	22.93
	MCS0	44	5220	7.06	6.40	9.75	N/A	10.78	20.53	22.93
	MCS0	48	5240	7.16	6.70	9.95	N/A	10.78	20.73	22.93
ac-VHT20 Band4	MCS0	149	5745	14.24	13.64	16.96	30.00	N/A	N/A	N/A
	MCS0	157	5785	15.45	15.02	18.25	30.00	N/A	N/A	N/A
	MCS0	165	5825	15.50	14.77	18.16	30.00	N/A	N/A	N/A
n-HT40 Band1	MCS0	38	5190	6.54	6.35	9.46	N/A	10.78	20.24	23.01
	MCS0	46	5230	8.03	7.61	10.84	N/A	10.78	21.62	23.01
n-HT40 Band4	MCS0	151	5755	13.22	12.48	15.88	30.00	N/A	N/A	N/A
	MCS0	159	5795	15.58	15.08	18.35	30.00	N/A	N/A	N/A
ac-VHT40 Band1	MCS0	38	5190	6.54	5.98	9.28	N/A	10.78	20.06	23.01
	MCS0	46	5230	8.05	7.35	10.72	N/A	10.78	21.50	23.01
ac-VHT40 Band4	MCS0	151	5755	13.28	12.44	15.89	30.00	N/A	N/A	N/A
	MCS0	159	5795	15.52	14.72	18.15	30.00	N/A	N/A	N/A
ac-VHT80 Band1	MCS0	42	5210	3.03	3.18	6.12	N/A	10.78	16.90	23.01
ac-VHT80 Band4	MCS0	155	5775	13.05	12.90	15.99	30.00	N/A	N/A	N/A

Note1: The Total Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Power} / 10)} + 10^{(\text{Ant 1 Power} / 10)}\}$.

Note2: E.I.R.P Power (dBm) = The Total Power (dBm) + Antenna Gain (dBi).

7.5. Transmit Power Control

7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

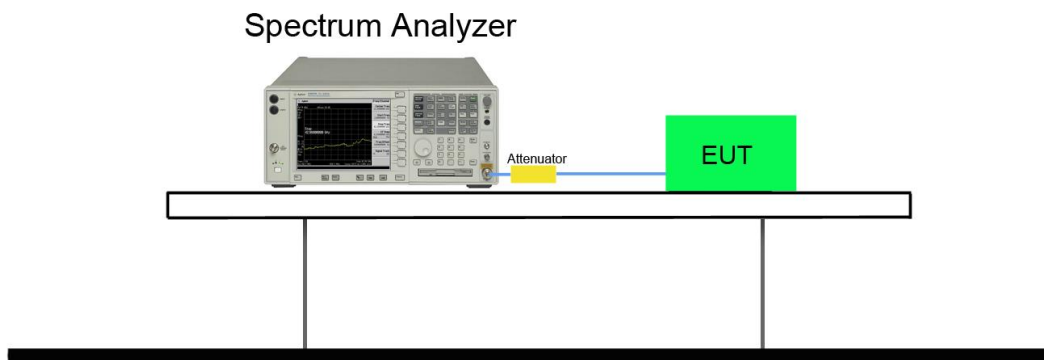
7.5.2. Test Procedure Used

KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

7.5.3. Test Setting

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.

7.5.4. Test Setup



7.5.5. Test Result

Note 1: Reference Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For FCC Power Spectral Density Limit

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

For IC Power Spectral Density Limit

For the band 5.15-5.25 GHz, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the 5.725-5.85 GHz band, the power spectral density shall not exceed 30 dBm in any 500 kHz band.

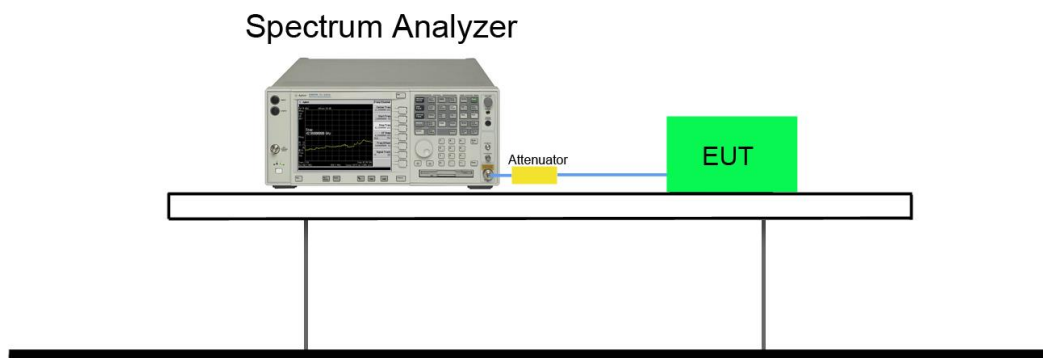
7.6.2. Test Procedure Used

KDB 789033 D02v02r01 - Section F

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,
4. RBW = 100 kHz
5. VBW = 3MHz
6. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
7. Detector = power averaging (Average)
8. Sweep time = auto
9. Trigger = free run
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
12. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 7$ dB to the measured result

7.6.4. Test Setup



7.6.5. Test Result

Note 1: Reference Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

7.7. Radiated Spurious Emission 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

KDB 789033 D02v02r01 – Section G

7.7.3. Test Setting

Peak Measurements above 1GHz

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

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

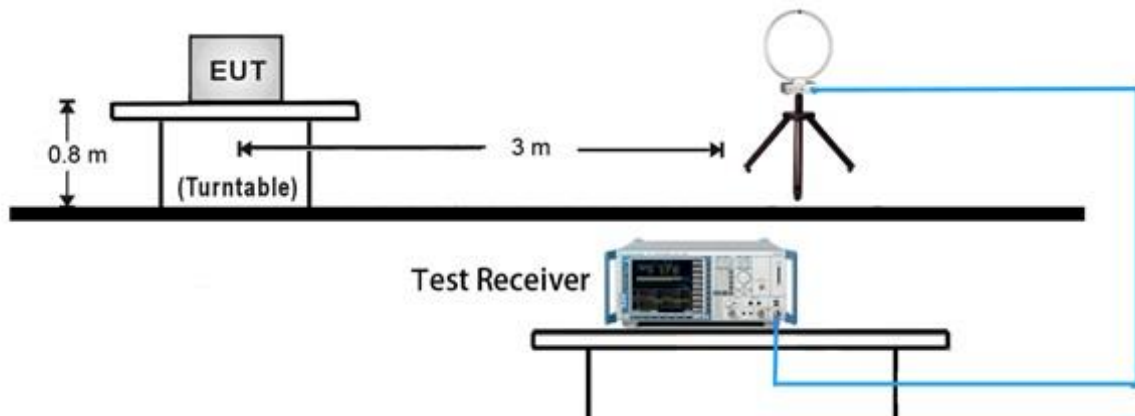
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

Quasi-Peak & Average Measurements below 30MHz

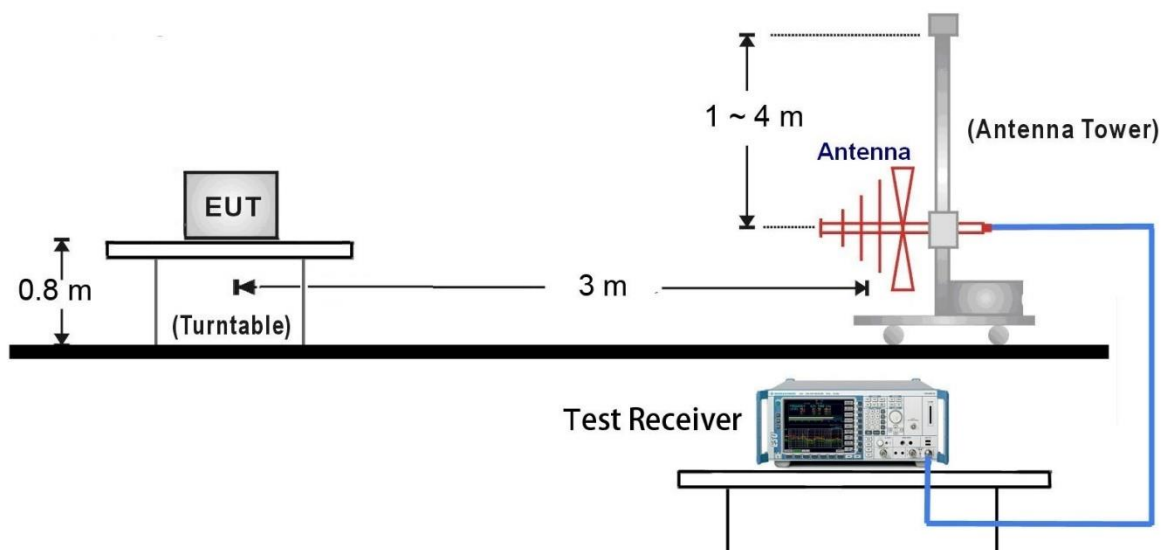
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 200Hz for 9kHz to 150kHz frequency; RBW = 9kHz for 0.15MHz to 30MHz frequency
4. Detector = CISPR quasi-peak or power average (Average)
5. Sweep time = auto couple
6. Trace was allowed to stabilize

7.7.4. Test Setup

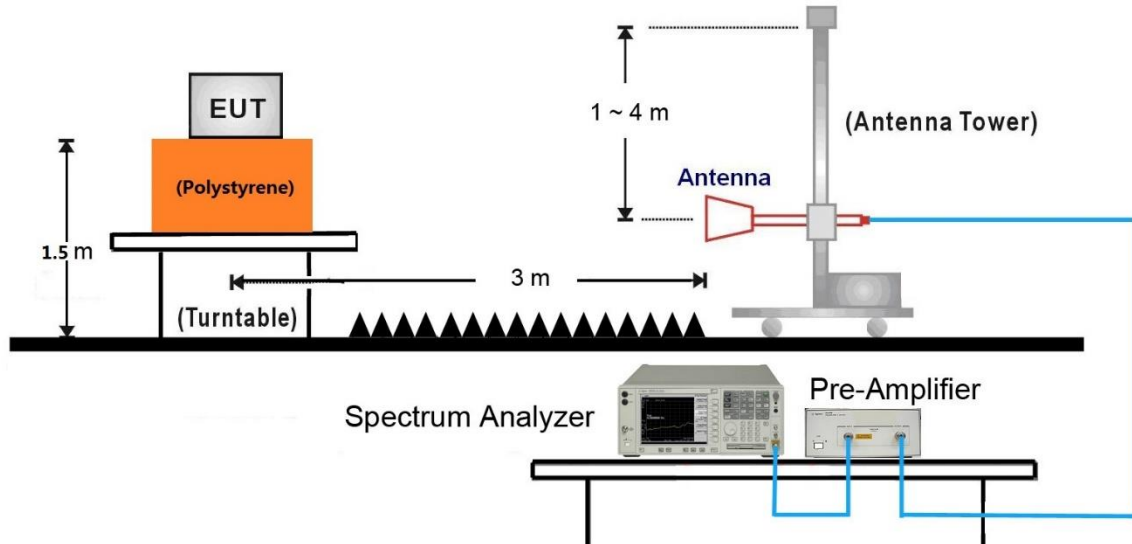
9kHz ~ 30MHz Test Setup:



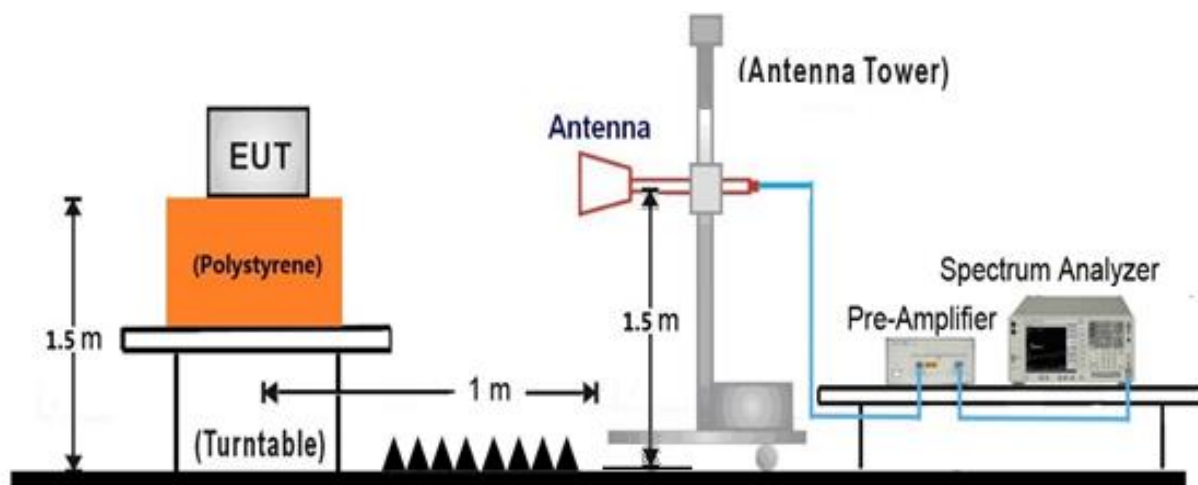
30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:

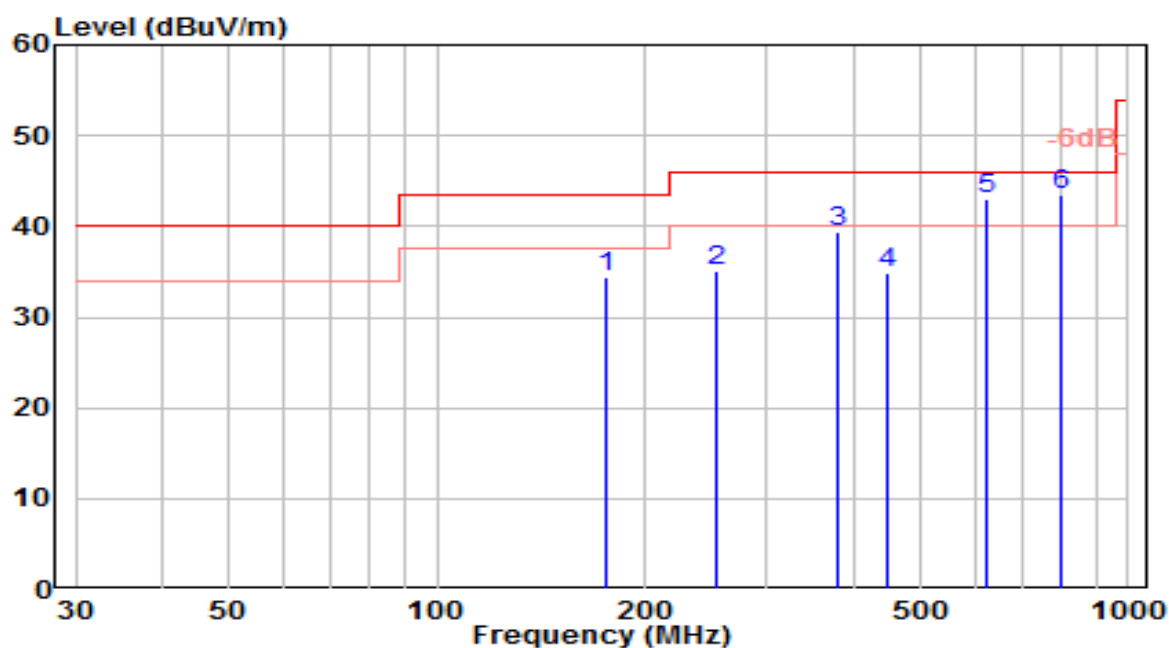


18GHz ~40GHz Test Setup:



7.7.5. Test Result

EUT	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

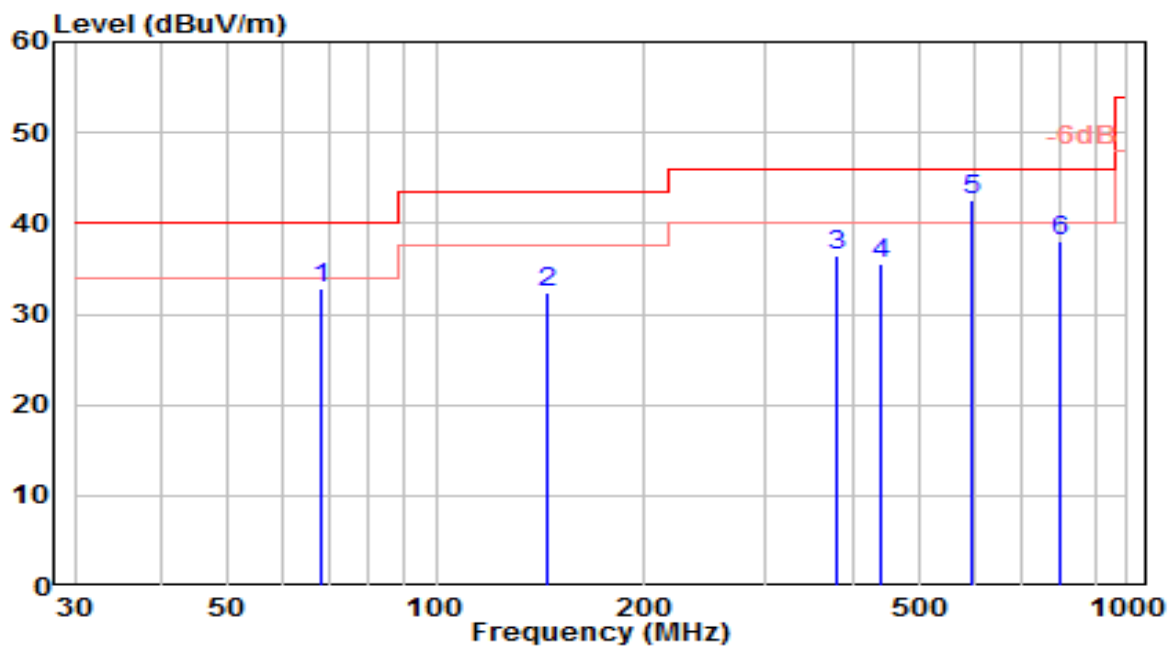


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	175.256	18.17	16.33	34.50	-9.00	43.50	150	60	QP
2	254.681	14.68	20.40	35.08	-10.92	46.00	100	65	QP
3	381.483	15.99	23.45	39.45	-6.55	46.00	100	30	QP
4	446.912	10.79	24.16	34.95	-11.05	46.00	150	250	QP
5	621.509	15.43	27.65	43.08	-2.92	46.00	100	245	QP
6	* 800.858	13.33	30.12	43.45	-2.55	46.00	100	245	QP

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	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

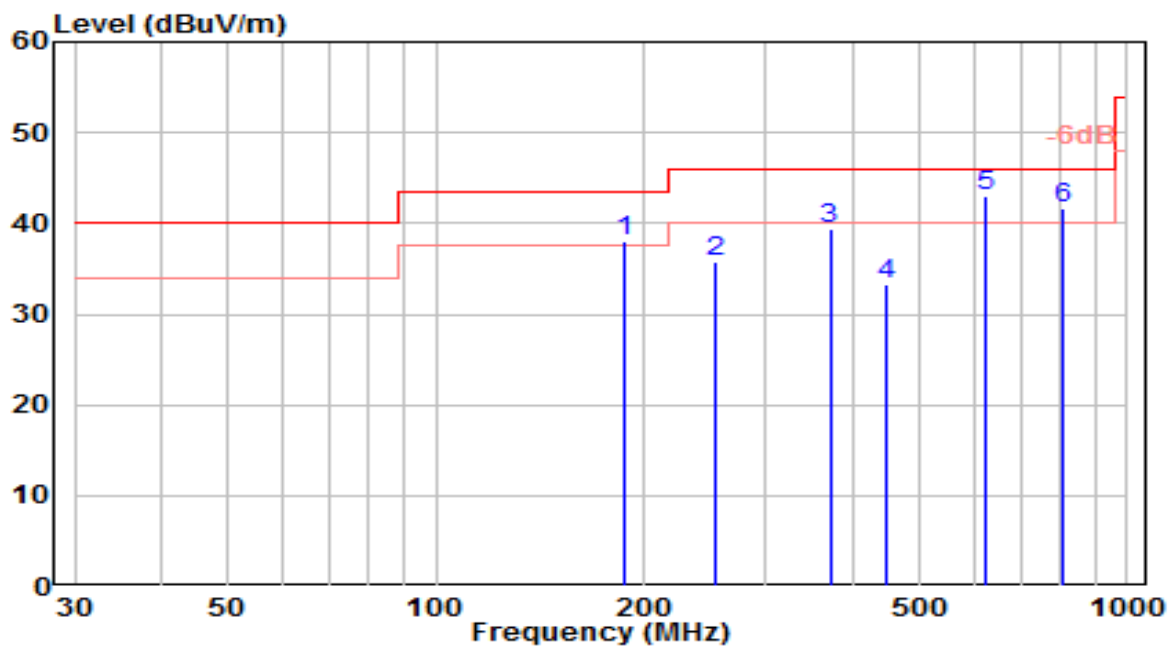


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	68.219	16.28	16.50	32.78	-7.22	40.00	100	320	QP
2	144.735	17.21	15.09	32.30	-11.20	43.50	100	10	QP
3	378.441	13.12	23.40	36.52	-9.48	46.00	150	270	QP
4	440.616	11.34	24.11	35.45	-10.55	46.00	100	190	QP
5	* 597.621	15.09	27.53	42.62	-3.38	46.00	150	175	QP
6	801.065	7.91	30.13	38.03	-7.97	46.00	100	220	QP

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	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

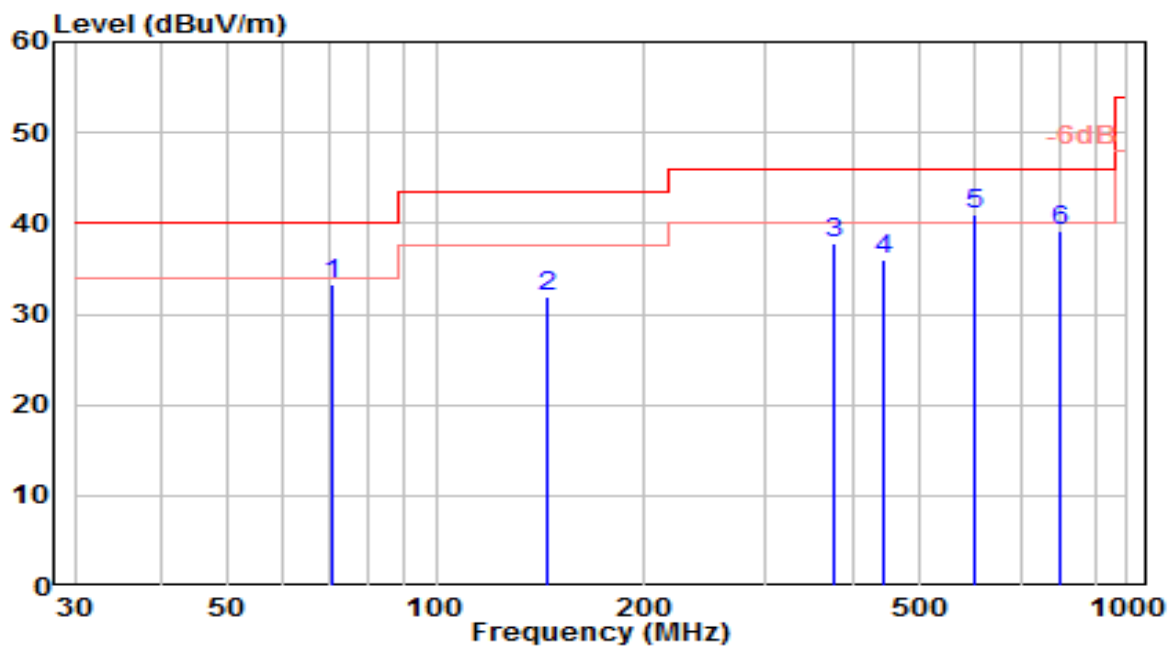


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	187.047	20.50	17.52	38.02	-5.48	43.50	150	60	QP
2	253.983	15.44	20.39	35.83	-10.17	46.00	100	65	QP
3	371.396	16.13	23.29	39.41	-6.59	46.00	100	30	QP
4	449.492	9.13	24.19	33.31	-12.69	46.00	150	250	QP
5	* 621.561	15.43	27.65	43.08	-2.92	46.00	100	245	QP
6	804.409	11.49	30.21	41.70	-4.30	46.00	100	245	QP

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	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

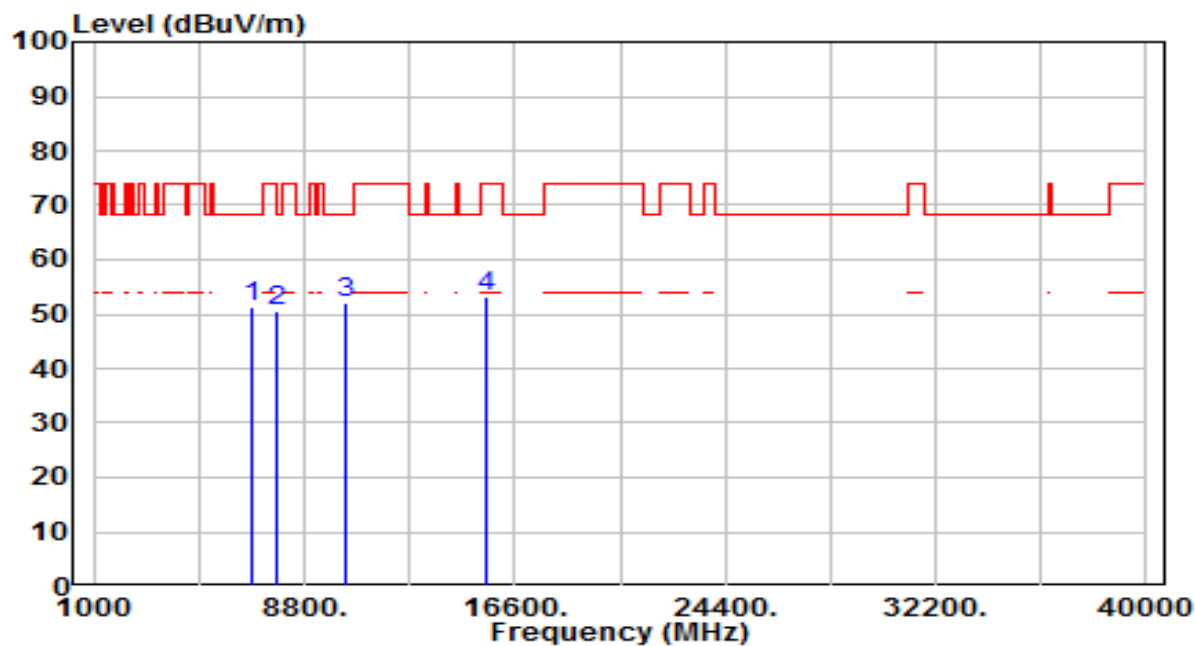


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	70.908	17.66	15.68	33.34	-6.66	40.00	100	320	QP
2	145.319	16.89	15.11	32.01	-11.49	43.50	100	10	QP
3	377.965	14.42	23.39	37.82	-8.18	46.00	150	270	QP
4	444.422	11.92	24.14	36.06	-9.94	46.00	100	190	QP
5	* 600.015	13.44	27.60	41.04	-4.96	46.00	150	175	QP
6	800.465	8.96	30.11	39.07	-6.93	46.00	100	220	QP

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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

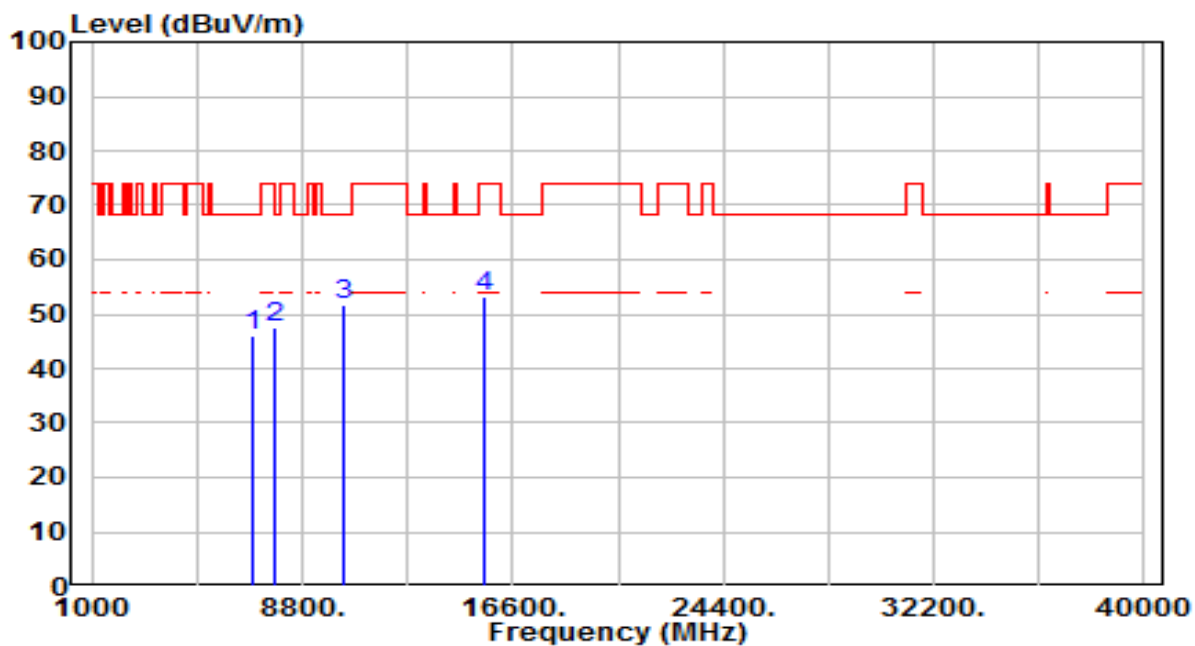


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6904.313	40.74	10.67	51.41	-16.79	68.20	200	163	Peak
2	7776.625	37.38	13.22	50.60	-17.60	68.20	200	155	Peak
3	* 10360.000	34.21	17.96	52.17	-16.03	68.20	200	210	Peak
4	15540.000	32.03	21.20	53.22	-20.78	74.00	200	295	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

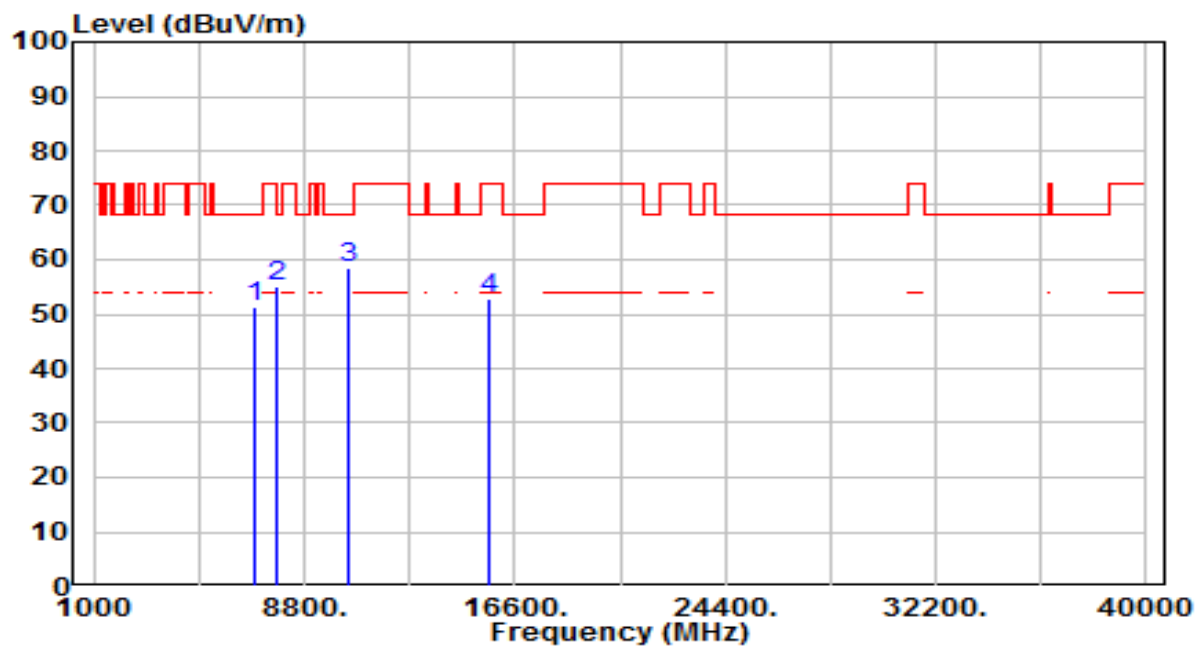


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6952.656	35.25	10.89	46.14	-22.06	68.20	200	318	Peak
2	7764.938	34.41	13.20	47.61	-20.59	68.20	200	171	Peak
3	* 10360.000	33.60	17.96	51.56	-16.64	68.20	200	13	Peak
4	15540.000	32.02	21.20	53.21	-20.79	74.00	200	315	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

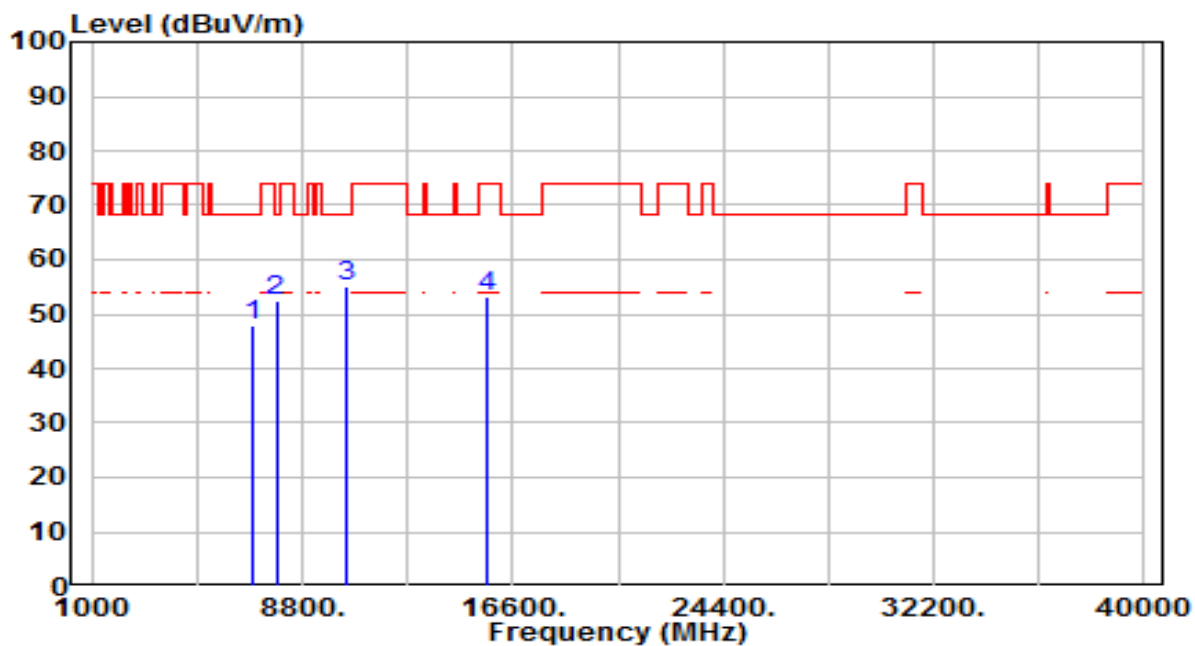


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6959.563	40.41	10.92	51.34	-16.86	68.20	200	165	Peak
2	7826.563	41.75	13.28	55.03	-13.17	68.20	200	133	Peak
3	* 10440.000	40.03	18.28	58.31	-9.89	68.20	200	183	Peak
4	15660.000	32.02	20.87	52.89	-21.11	74.00	200	38	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

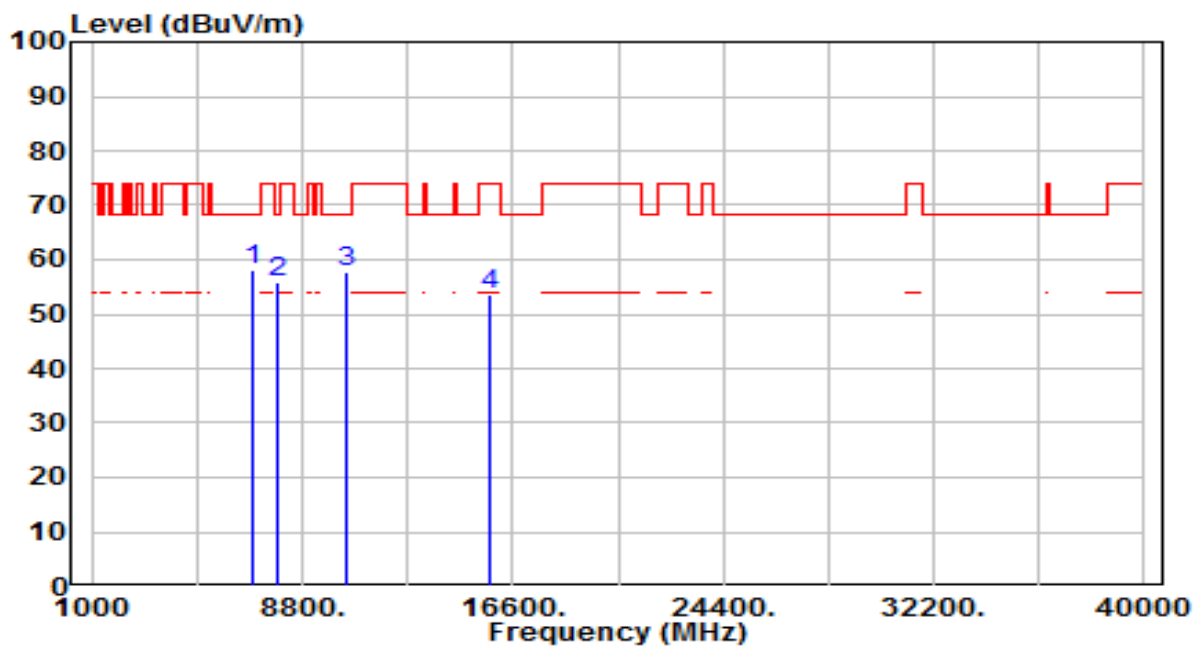


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6959.563	37.19	10.92	48.11	-20.09	68.20	200	157	Peak
2	7835.063	39.27	13.29	52.56	-15.64	68.20	200	168	Peak
3	* 10440.000	36.74	18.28	55.02	-13.18	68.20	200	140	Peak
4	15660.000	32.51	20.87	53.38	-20.62	74.00	200	281	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 48_ANT 0+1	Test Voltage	AC 120V/60Hz

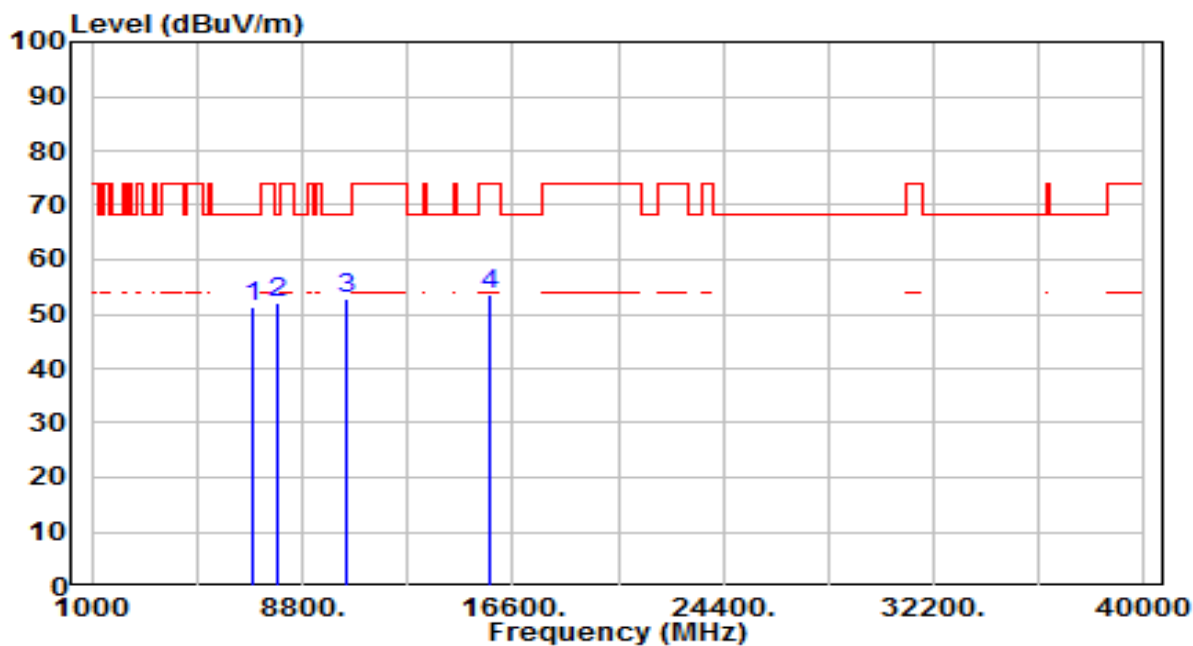


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	6986.656	47.13	11.05	58.17	-10.03	68.20	200	134	Peak
2		7866.406	42.39	13.33	55.72	-12.48	68.20	200	163	Peak
3		10480.000	39.48	18.43	57.91	-10.29	68.20	200	142	Peak
4		15720.000	32.70	20.70	53.41	-20.59	74.00	200	199	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 48_ANT 0+1	Test Voltage	AC 120V/60Hz

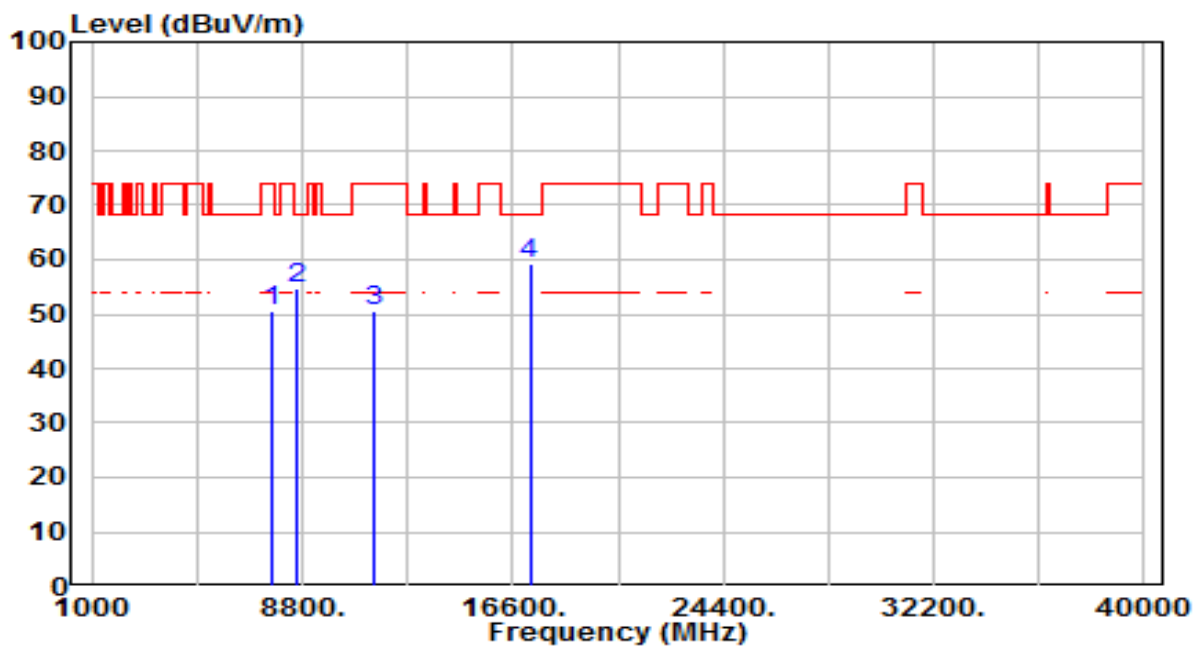


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6987.188	40.09	11.05	51.14	-17.06	68.20	200	90	Peak
2	7860.031	38.93	13.32	52.25	-15.95	68.20	200	170	Peak
3	* 10480.000	34.21	18.43	52.64	-15.56	68.20	200	198	Peak
4	15720.000	32.77	20.70	53.48	-20.52	74.00	200	191	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

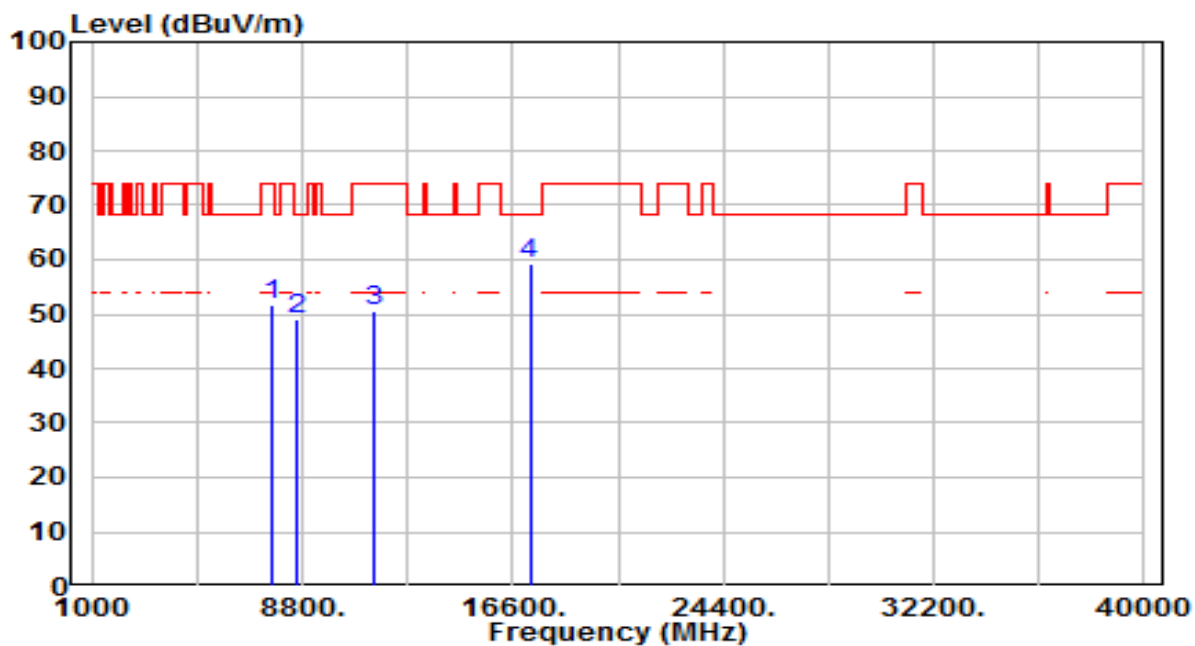


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7660.281	37.68	13.07	50.75	-23.25	74.00	200	130	Peak
2	8610.156	40.59	14.13	54.72	-13.48	68.20	200	209	Peak
3	11490.000	30.58	19.82	50.40	-23.60	74.00	200	72	Peak
4	* 17235.000	33.40	25.67	59.07	-9.13	68.20	200	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

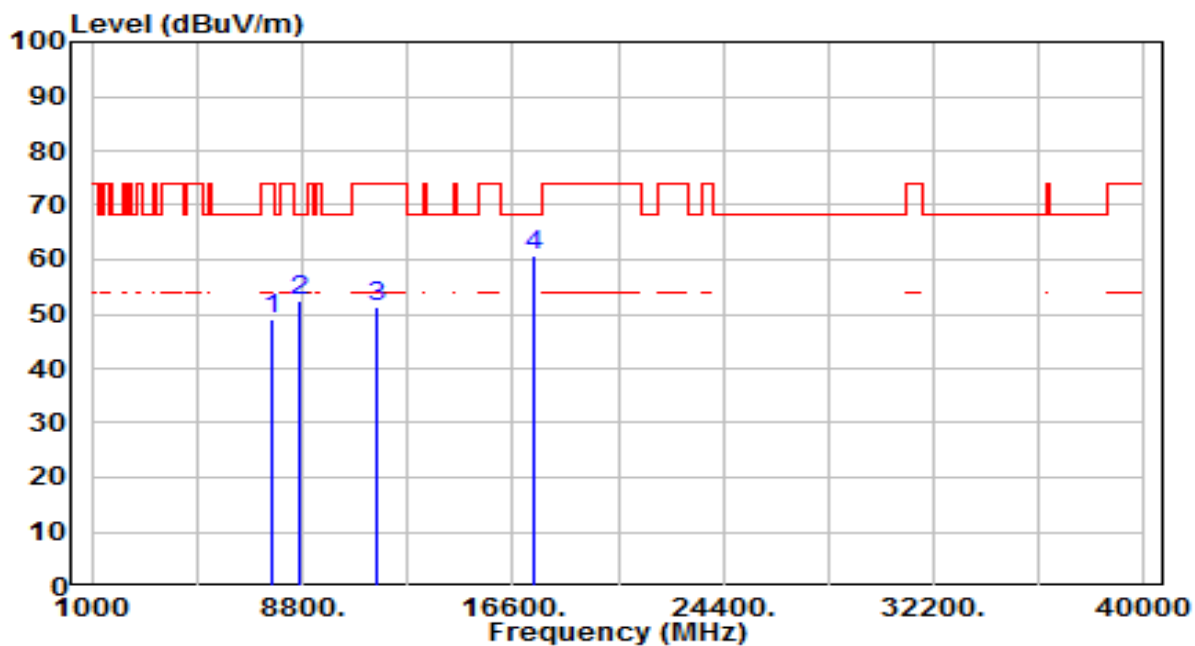


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7659.750	38.57	13.07	51.64	-22.36	74.00	200	150	Peak
2	8622.375	34.87	14.16	49.03	-19.17	68.20	200	139	Peak
3	11490.000	30.56	19.82	50.38	-23.62	74.00	200	258	Peak
4	* 17235.000	33.55	25.67	59.21	-8.99	68.20	200	229	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 157_ANT 0+1	Test Voltage	AC 120V/60Hz

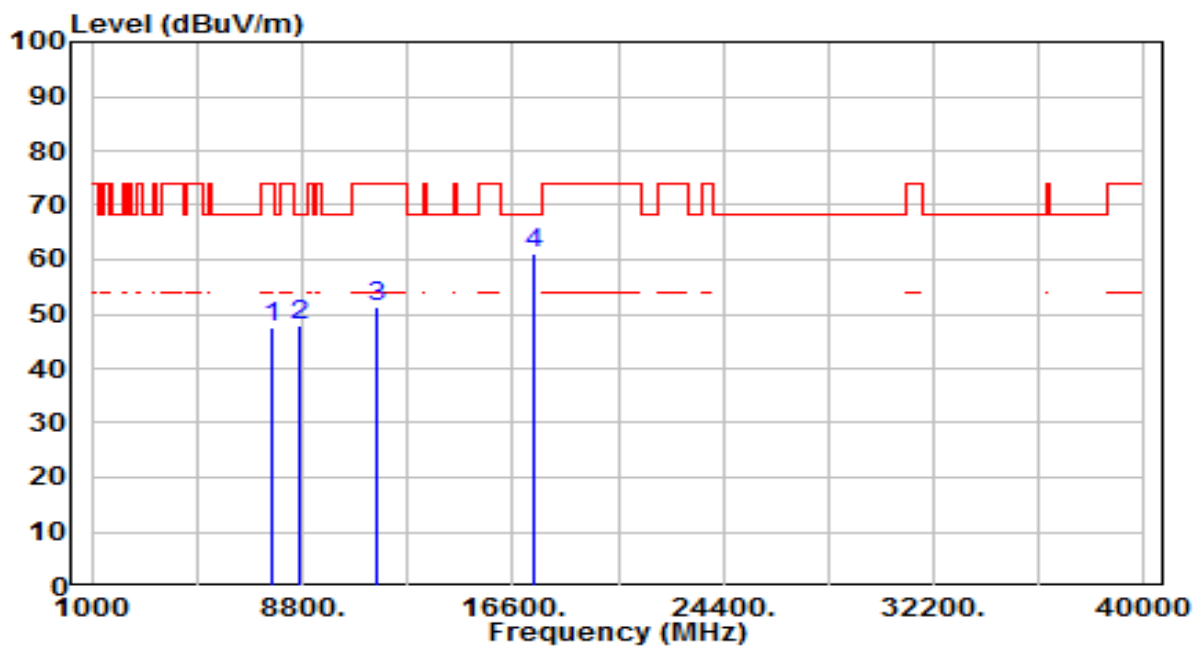


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7709.156	36.07	13.13	49.20	-24.80	74.00	200	135	Peak
2	8674.969	38.10	14.29	52.39	-15.81	68.20	200	210	Peak
3	11570.000	31.63	19.72	51.35	-22.65	74.00	200	351	Peak
4	* 17355.000	34.09	26.57	60.66	-7.54	68.20	200	167	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 157_ANT 0+1	Test Voltage	AC 120V/60Hz

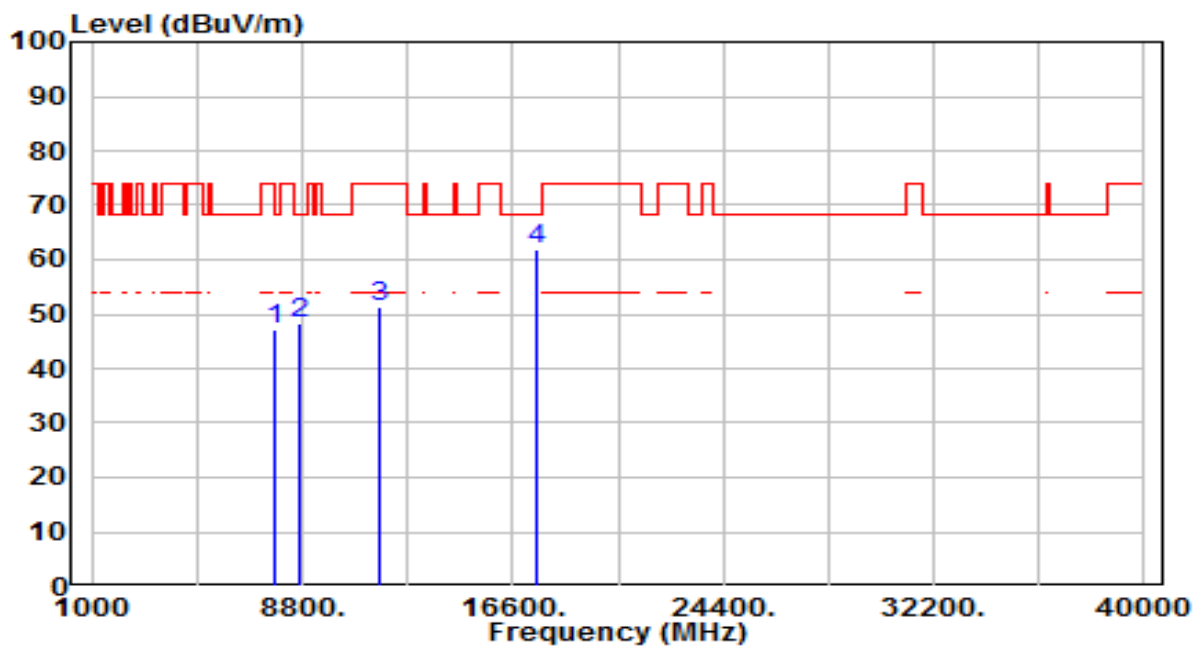


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7712.344	34.36	13.13	47.50	-26.50	74.00	200	283	Peak
2	8671.250	33.75	14.28	48.02	-20.18	68.20	200	192	Peak
3	11570.000	31.56	19.72	51.28	-22.72	74.00	200	218	Peak
4	* 17355.000	34.44	26.57	61.02	-7.18	68.20	200	293	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

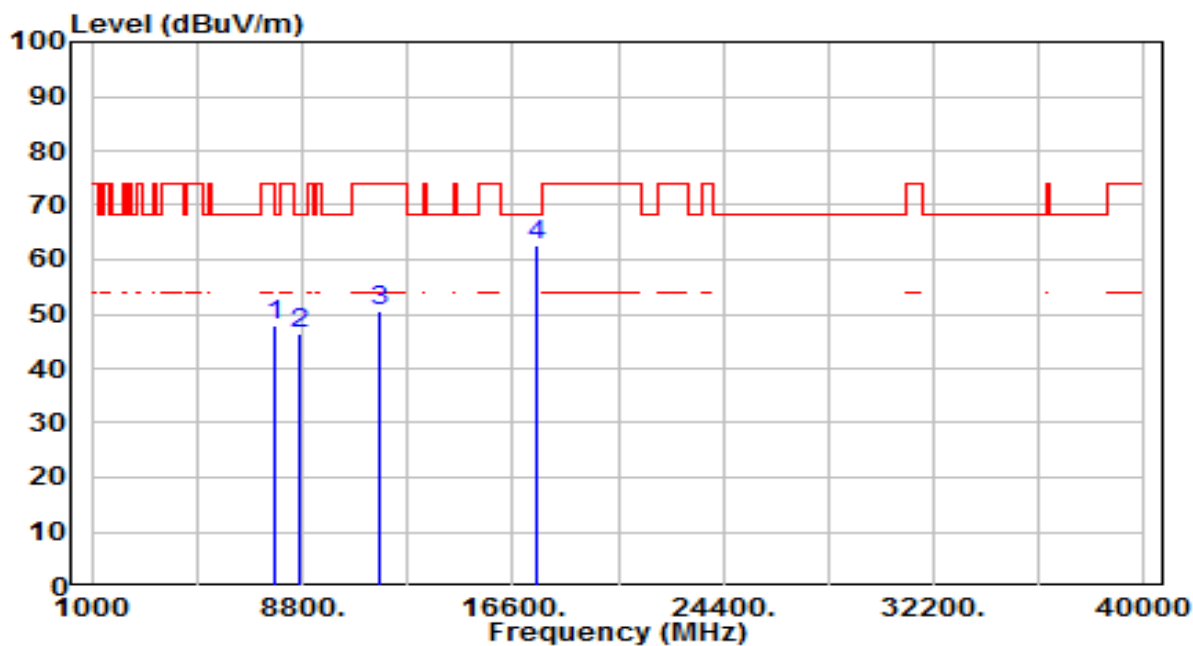


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7742.094	34.15	13.17	47.32	-26.68	74.00	200	194	Peak
2	8742.438	34.02	14.45	48.48	-19.72	68.20	200	220	Peak
3	11650.000	31.65	19.59	51.24	-22.76	74.00	200	319	Peak
4	* 17475.000	34.37	27.48	61.85	-6.35	68.20	200	5	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

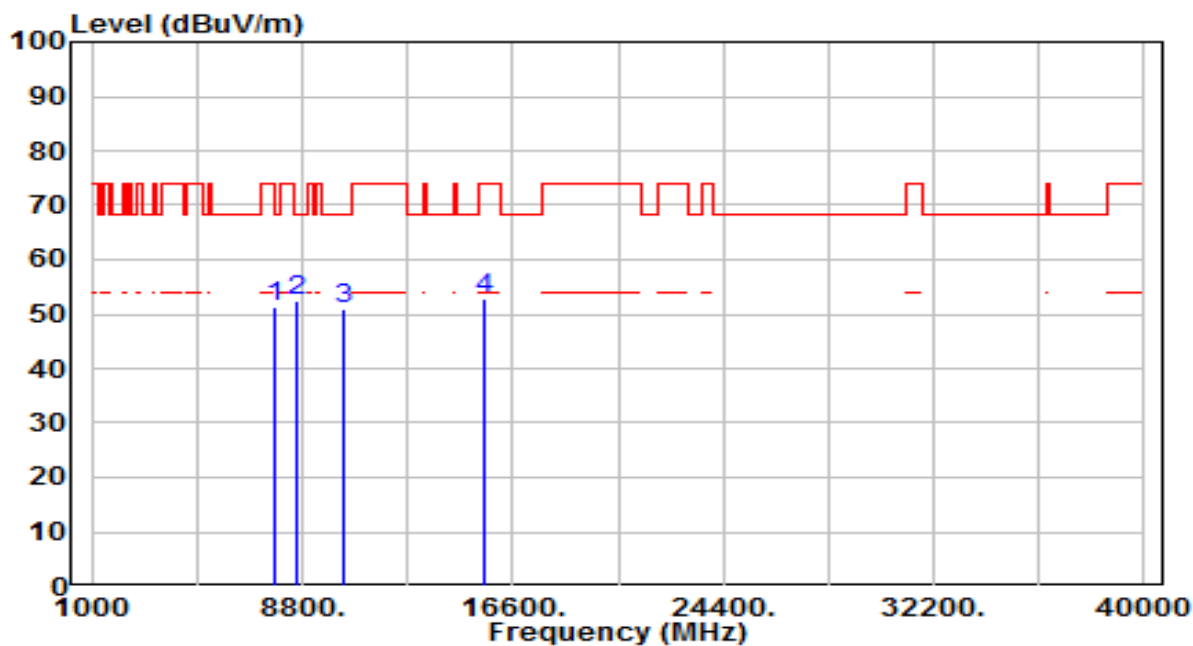


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7776.094	34.77	13.22	47.99	-20.21	68.20	200	156	Peak
2	8737.656	32.03	14.44	46.47	-21.73	68.20	200	13	Peak
3	11650.000	30.87	19.59	50.47	-23.53	74.00	200	349	Peak
4	* 17475.000	35.02	27.48	62.50	-5.70	68.20	200	356	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

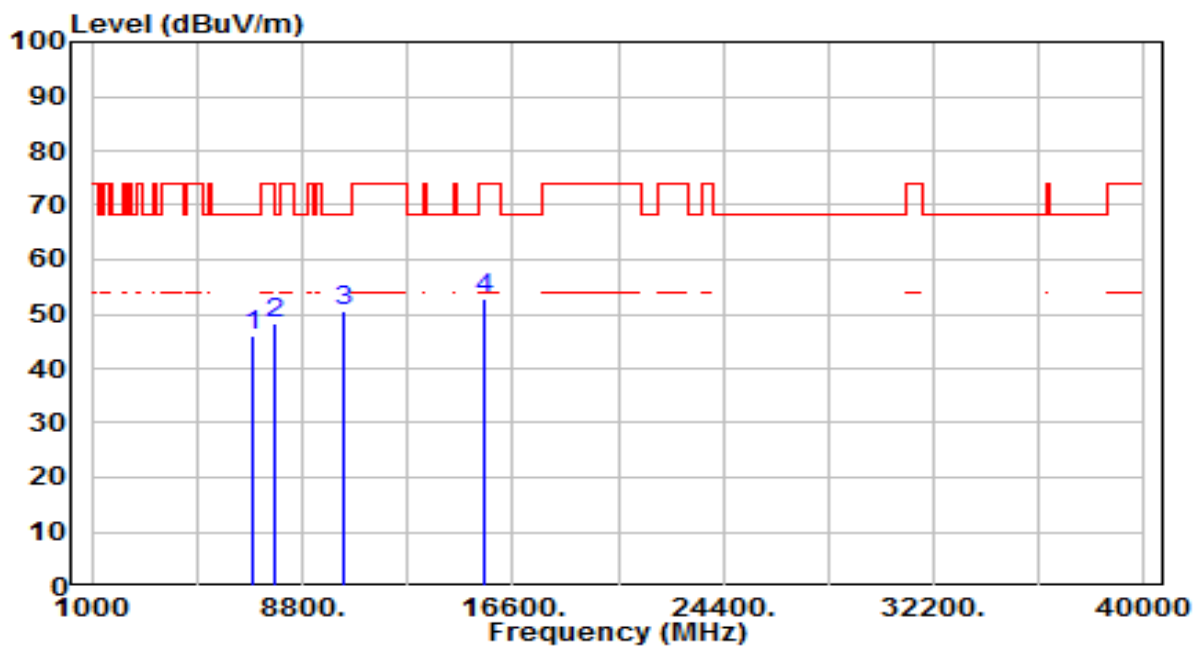


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7775.563	38.14	13.21	51.35	-16.85	68.20	200	172	Peak
2	* 8625.563	38.29	14.17	52.46	-15.74	68.20	200	197	Peak
3	10360.000	32.96	17.96	50.92	-17.28	68.20	200	197	Peak
4	15540.000	31.66	21.20	52.86	-21.14	74.00	200	106	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

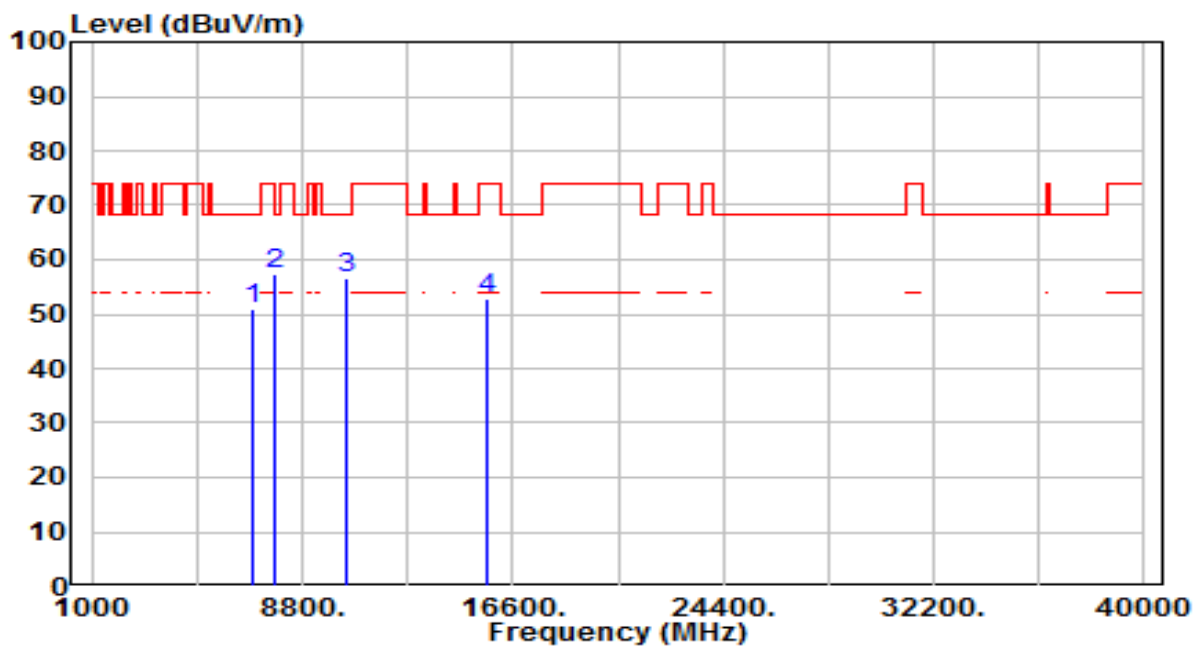


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6984.000	34.85	11.04	45.89	-22.31	68.20	200	65	Peak
2	7743.156	35.00	13.17	48.17	-25.83	74.00	200	76	Peak
3	* 10360.000	32.72	17.96	50.69	-17.51	68.20	200	197	Peak
4	15540.000	31.70	21.20	52.89	-21.11	74.00	200	115	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

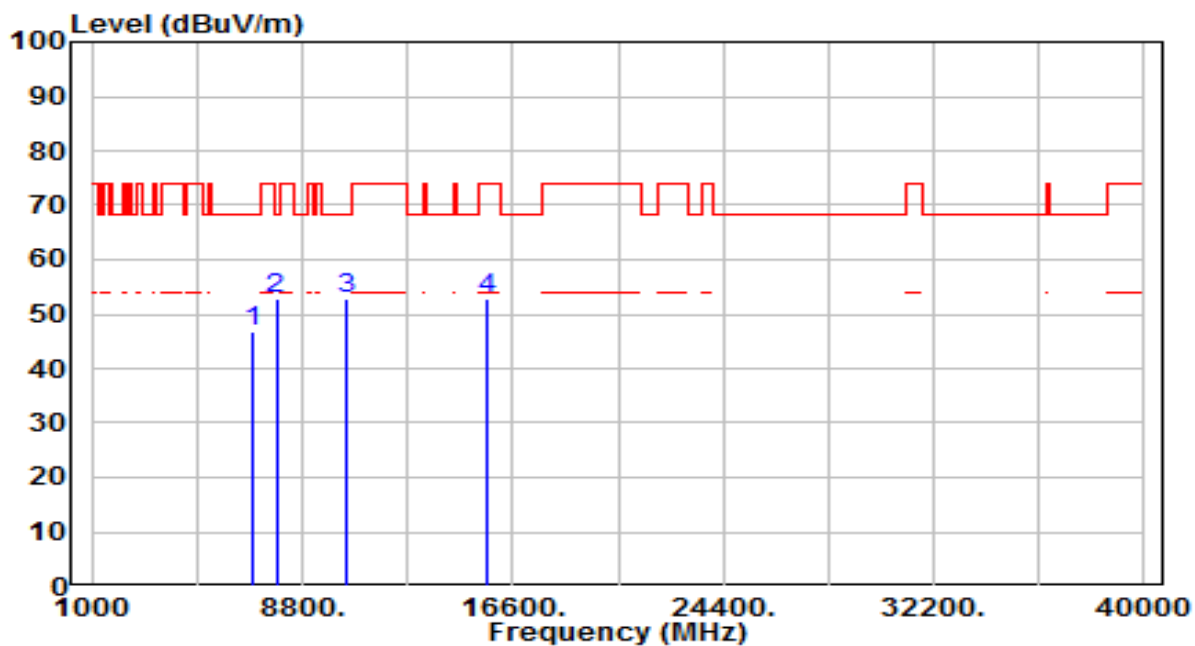


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6961.688	39.84	10.93	50.77	-17.43	68.20	200	139	Peak
2	* 7831.344	44.12	13.29	57.41	-10.79	68.20	200	168	Peak
3	10440.000	38.35	18.28	56.63	-11.57	68.20	200	218	Peak
4	15660.000	32.08	20.87	52.95	-21.05	74.00	200	25	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

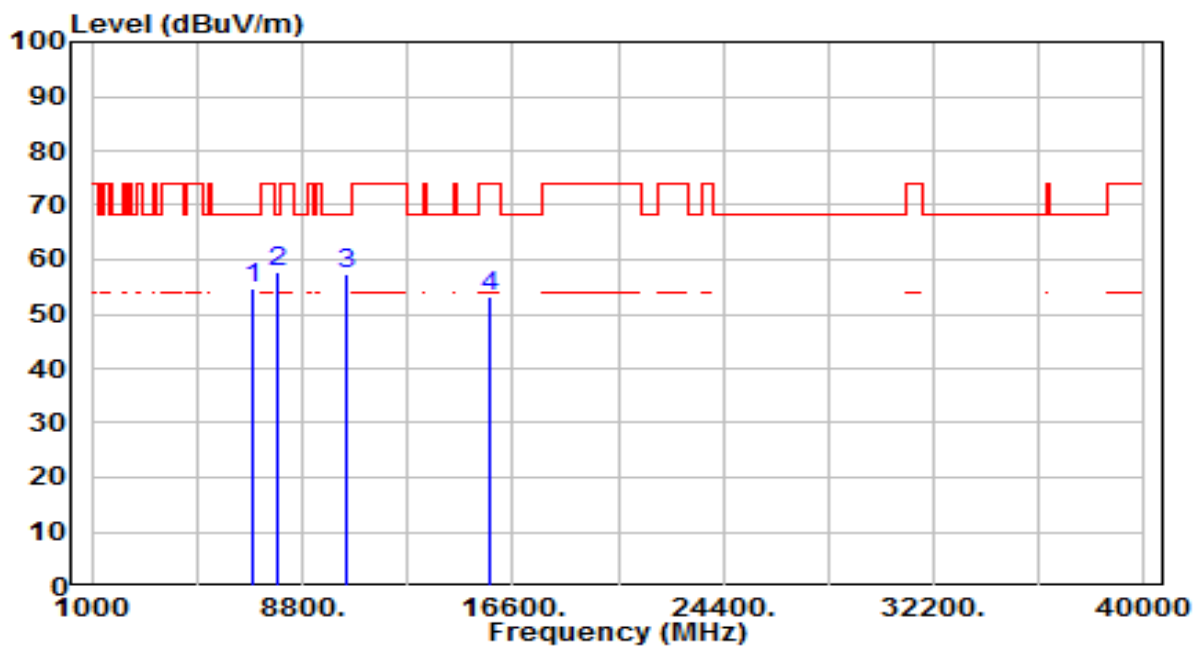


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6964.344	35.80	10.94	46.74	-21.46	68.20	200	158	Peak
2	* 7834.000	39.66	13.29	52.95	-15.25	68.20	200	166	Peak
3	10440.000	34.48	18.28	52.76	-15.44	68.20	200	144	Peak
4	15660.000	32.03	20.87	52.90	-21.10	74.00	200	265	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 48_ANT 0+1	Test Voltage	AC 120V/60Hz

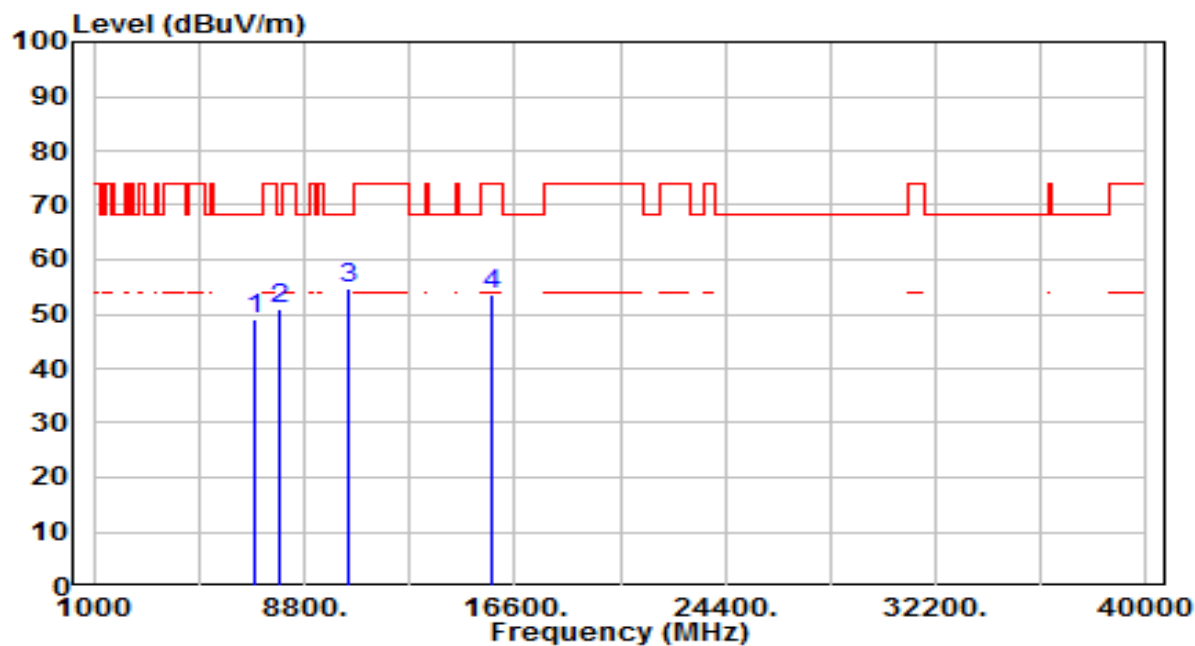


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6987.188	43.52	11.05	54.57	-13.63	68.20	200	138	Peak
2	* 7860.031	44.57	13.32	57.89	-10.31	68.20	200	135	Peak
3	10480.000	38.76	18.43	57.20	-11.00	68.20	200	198	Peak
4	15720.000	32.61	20.70	53.31	-20.69	74.00	200	262	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 48_ANT 0+1	Test Voltage	AC 120V/60Hz

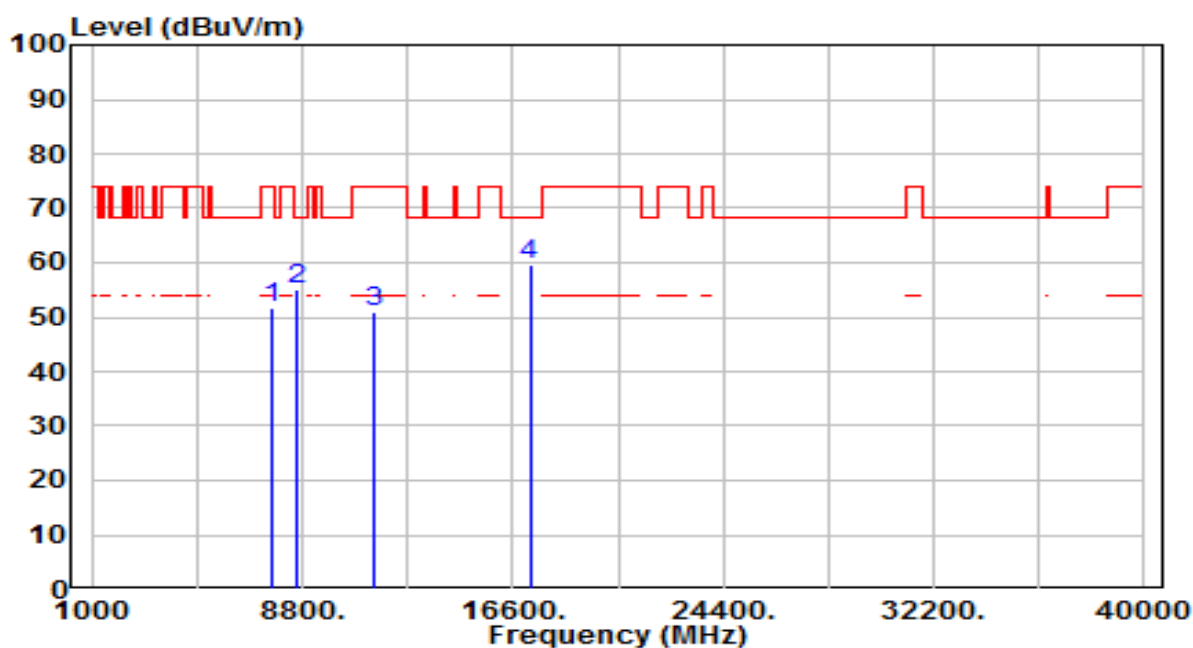


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6986.656	37.95	11.05	49.00	-19.20	68.20	200	156	Peak
2	7858.969	37.67	13.32	50.99	-17.21	68.20	200	167	Peak
3	* 10480.000	36.37	18.43	54.80	-13.40	68.20	200	145	Peak
4	15720.000	32.70	20.70	53.40	-20.60	74.00	200	167	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

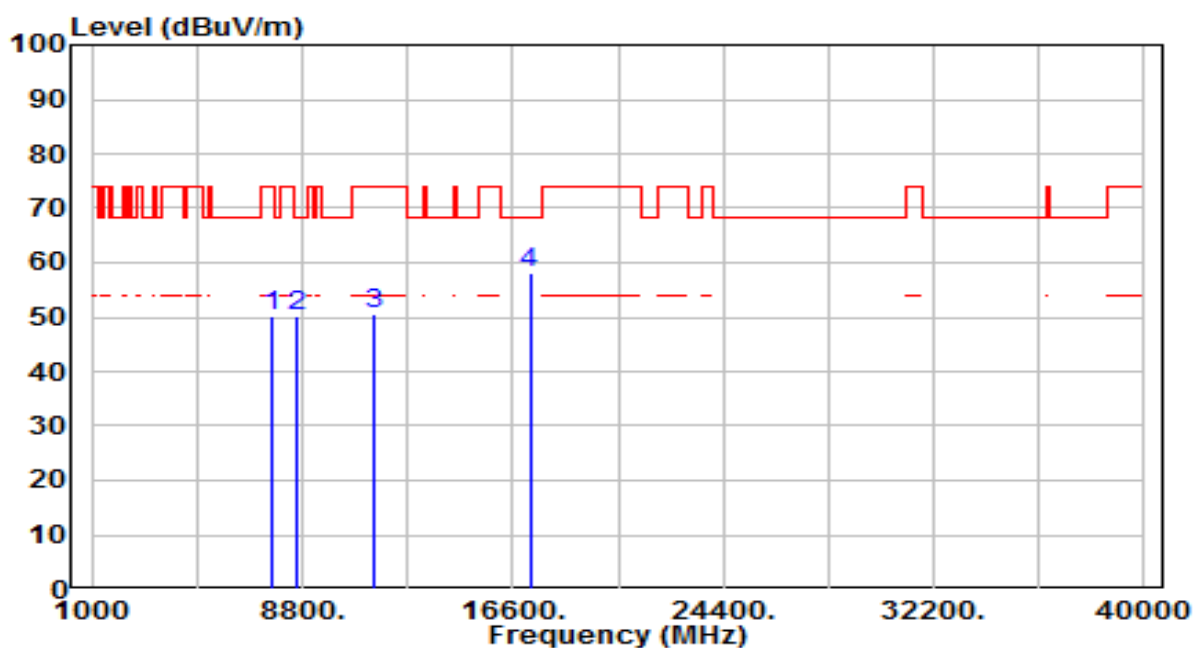


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7659.750	38.58	13.07	51.64	-22.36	74.00	200	135	Peak
2	8626.094	41.05	14.17	55.22	-12.98	68.20	200	199	Peak
3	11490.000	31.19	19.82	51.01	-22.99	74.00	200	355	Peak
4	* 17235.000	33.81	25.67	59.48	-8.72	68.20	200	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

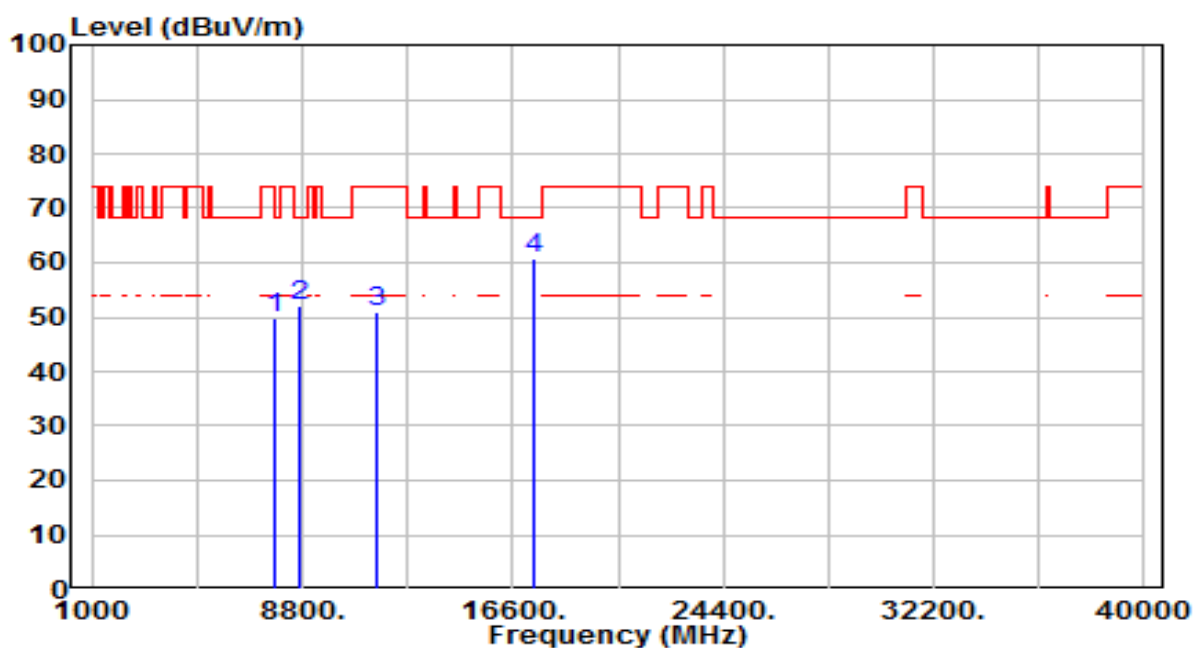


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7660.281	36.99	13.07	50.06	-23.94	74.00	200	147	Peak
2	8624.500	36.19	14.16	50.35	-17.85	68.20	200	154	Peak
3	11490.000	30.72	19.82	50.54	-23.46	74.00	200	274	Peak
4	* 17235.000	32.39	25.67	58.06	-10.14	68.20	200	296	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 157_ANT 0+1	Test Voltage	AC 120V/60Hz

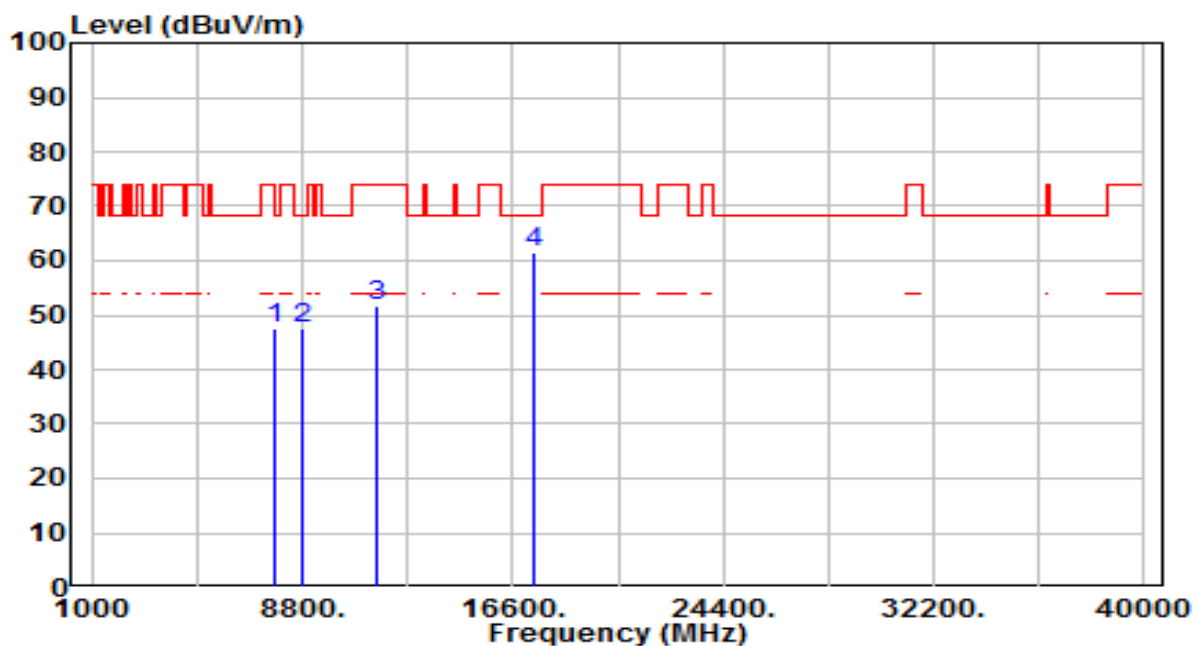


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7746.875	36.58	13.18	49.76	-24.24	74.00	200	157	Peak
2	8676.031	37.85	14.29	52.14	-16.06	68.20	200	214	Peak
3	11570.000	31.25	19.72	50.98	-23.02	74.00	200	132	Peak
4	* 17355.000	34.36	26.57	60.93	-7.27	68.20	200	355	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 157_ANT 0+1	Test Voltage	AC 120V/60Hz

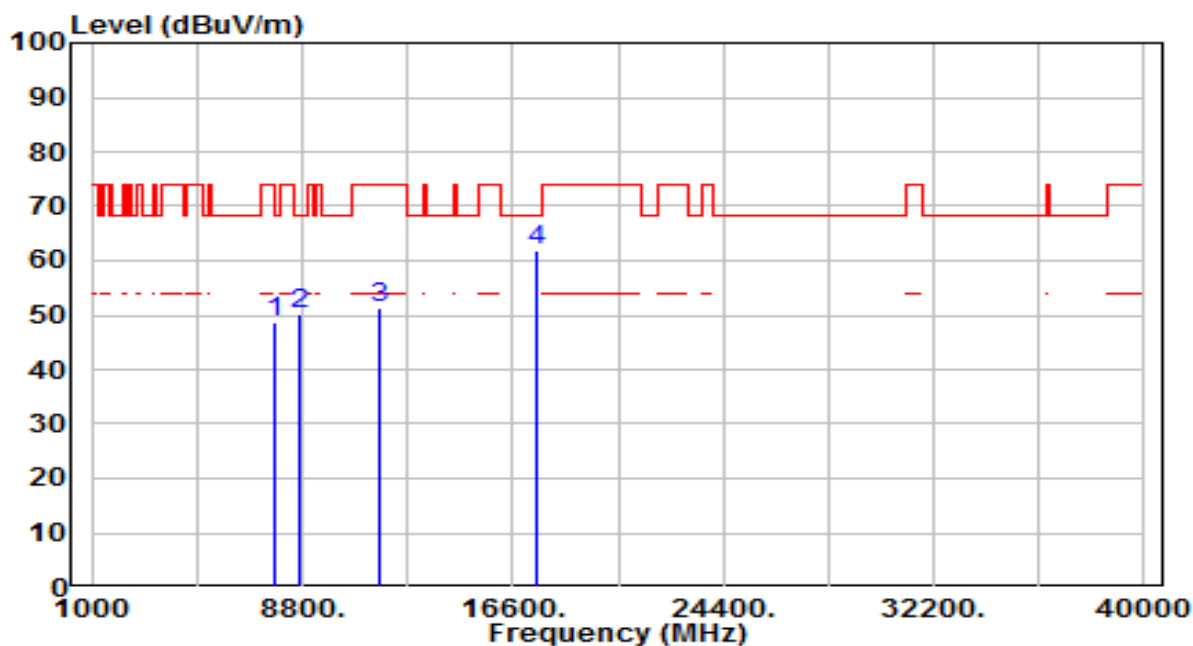


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7771.844	34.50	13.21	47.71	-20.49	68.20	200	191	Peak
2	8788.125	33.09	14.57	47.66	-20.54	68.20	200	187	Peak
3	11570.000	32.02	19.72	51.74	-22.26	74.00	200	230	Peak
4	* 17355.000	34.85	26.57	61.42	-6.78	68.20	200	311	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

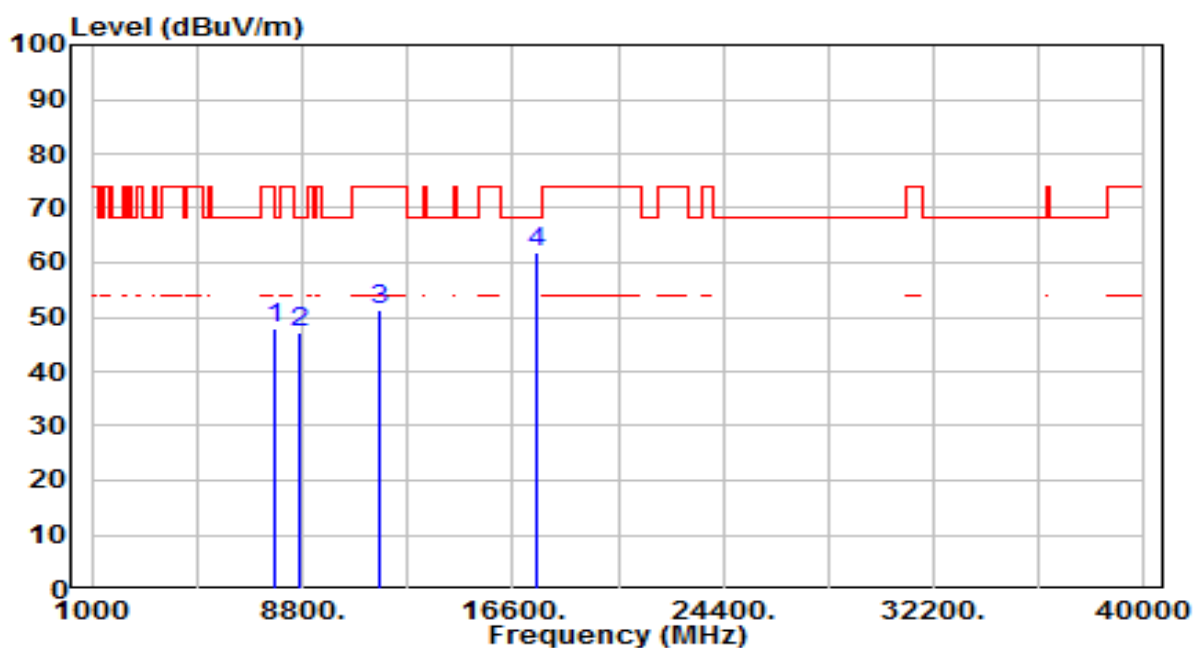


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7749.531	35.34	13.18	48.52	-25.48	74.00	200	185	Peak
2	8737.656	35.68	14.44	50.12	-18.08	68.20	200	202	Peak
3	11650.000	31.89	19.59	51.49	-22.51	74.00	200	174	Peak
4	* 17475.000	34.43	27.48	61.92	-6.28	68.20	200	287	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

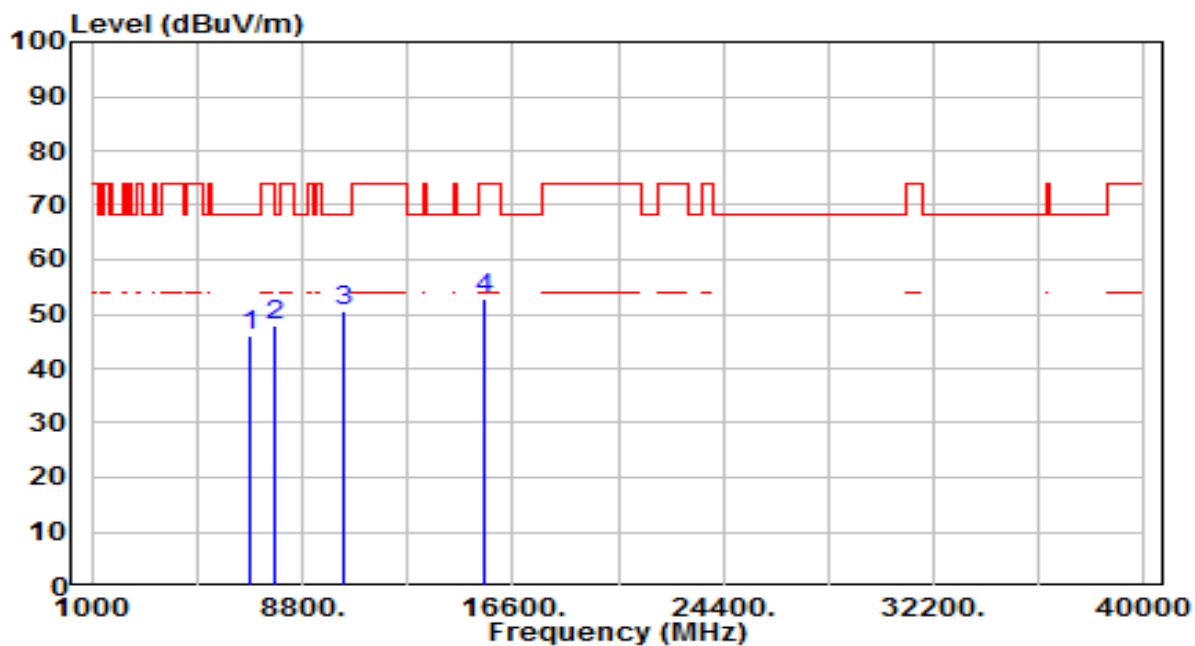


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7768.125	34.88	13.21	48.09	-20.11	68.20	200	247	Peak
2	8737.656	32.80	14.44	47.24	-20.96	68.20	200	159	Peak
3	11650.000	31.77	19.59	51.36	-22.64	74.00	200	212	Peak
4	* 17475.000	34.33	27.48	61.81	-6.39	68.20	200	159	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0+1	Test Voltage	AC 120V/60Hz

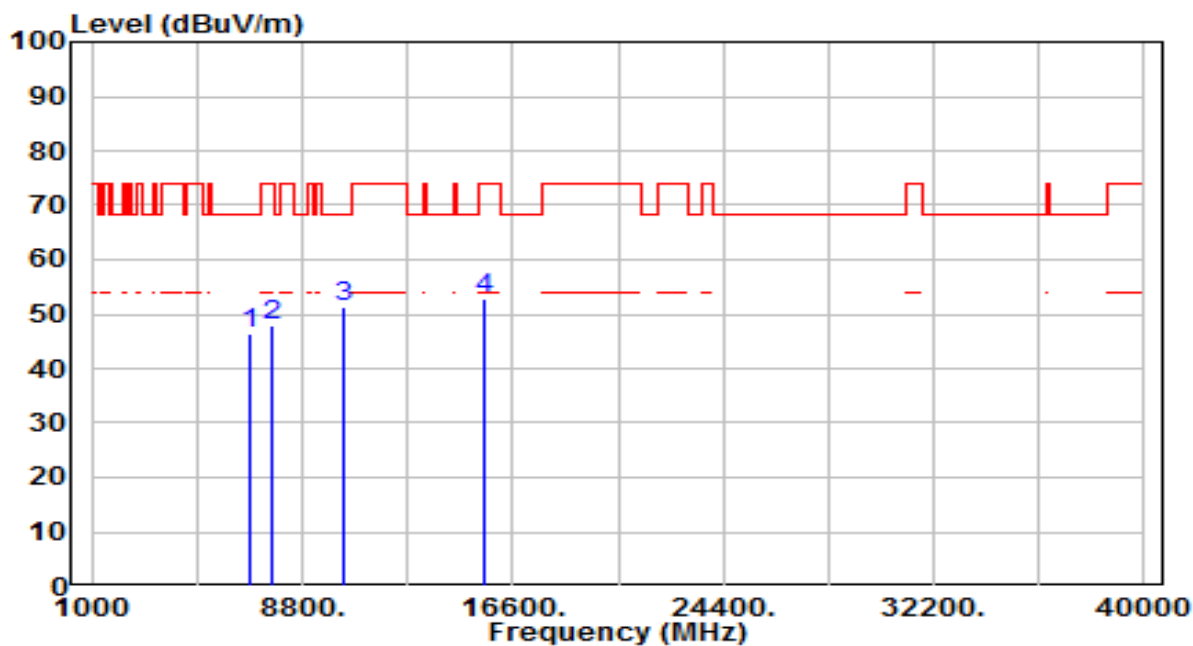


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6840.563	35.53	10.37	45.90	-22.30	68.20	200	251	Peak
2	7779.813	34.83	13.22	48.05	-20.15	68.20	200	169	Peak
3	* 10380.000	32.70	18.04	50.74	-17.46	68.20	200	290	Peak
4	15570.000	31.65	21.12	52.77	-21.23	74.00	200	125	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0+1	Test Voltage	AC 120V/60Hz

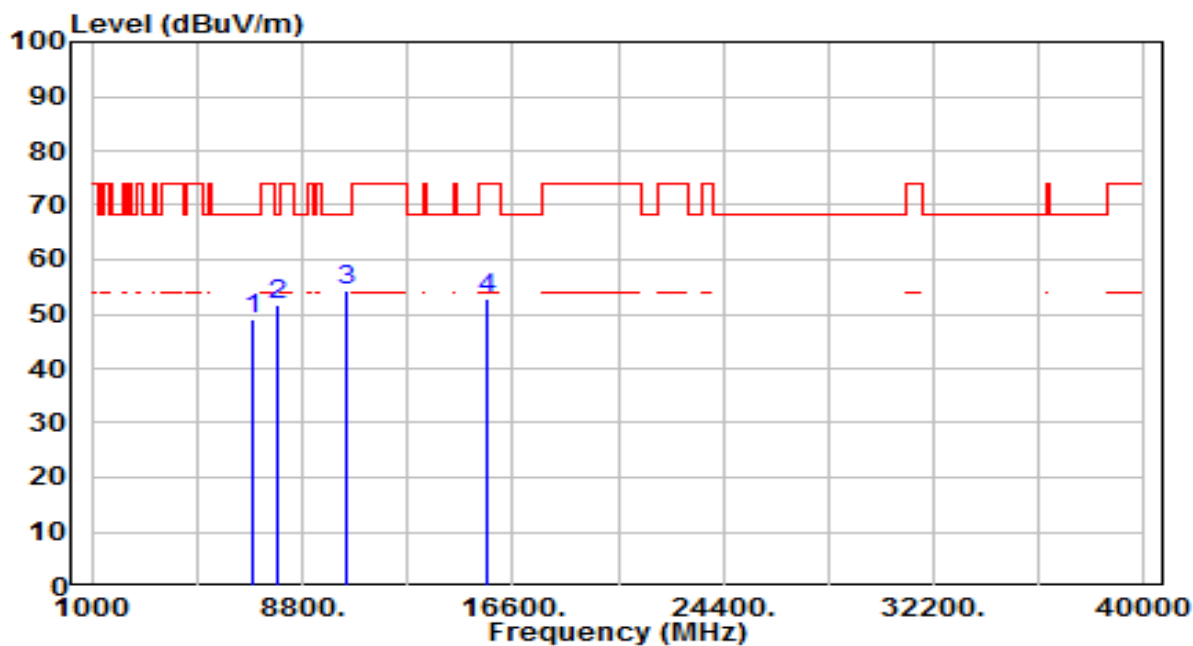


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6880.406	35.92	10.55	46.47	-21.73	68.20	200	165	Peak
2	7716.594	34.80	13.14	47.94	-26.06	74.00	200	46	Peak
3	* 10380.000	33.10	18.04	51.14	-17.06	68.20	200	207	Peak
4	15570.000	31.86	21.12	52.98	-21.02	74.00	200	56	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 46_ANT 0+1	Test Voltage	AC 120V/60Hz

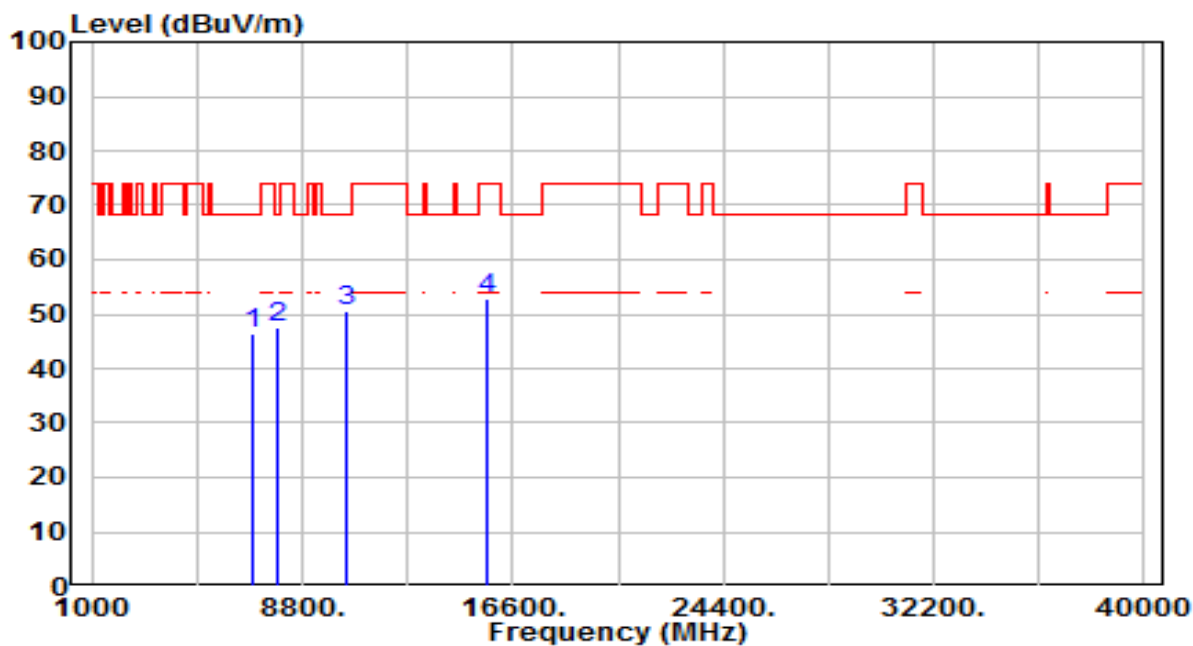


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6973.375	38.09	10.99	49.08	-19.12	68.20	200	130	Peak
2	7841.969	38.25	13.30	51.55	-16.65	68.20	200	155	Peak
3	* 10460.000	35.95	18.35	54.30	-13.90	68.20	200	198	Peak
4	15690.000	32.13	20.79	52.92	-21.08	74.00	200	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 46_ANT 0+1	Test Voltage	AC 120V/60Hz

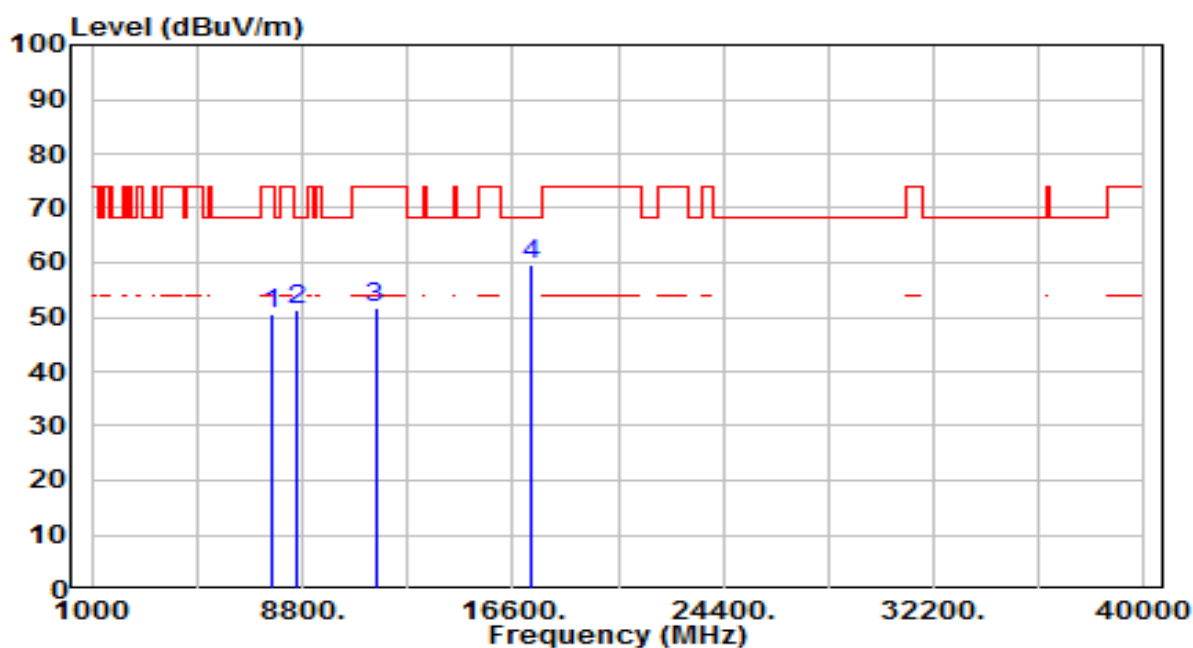


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6977.625	35.54	11.01	46.55	-21.65	68.20	200	158	Peak
2	7889.781	34.12	13.36	47.48	-20.72	68.20	200	55	Peak
3	* 10460.000	32.18	18.35	50.53	-17.67	68.20	200	158	Peak
4	15690.000	32.07	20.79	52.85	-21.15	74.00	200	323	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0+1	Test Voltage	AC 120V/60Hz

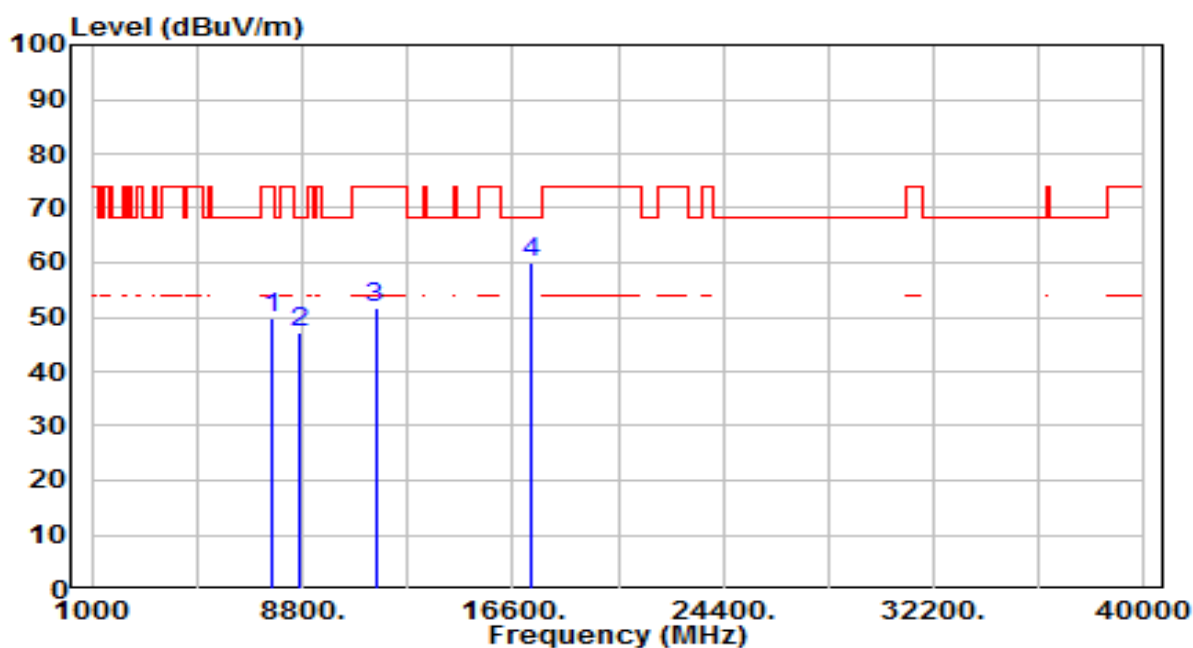


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7673.031	37.47	13.08	50.55	-23.45	74.00	200	128	Peak
2	8625.031	37.28	14.16	51.45	-16.75	68.20	200	195	Peak
3	11510.000	31.99	19.82	51.81	-22.19	74.00	200	344	Peak
4	* 17265.000	33.71	25.89	59.61	-8.59	68.20	200	199	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0+1	Test Voltage	AC 120V/60Hz

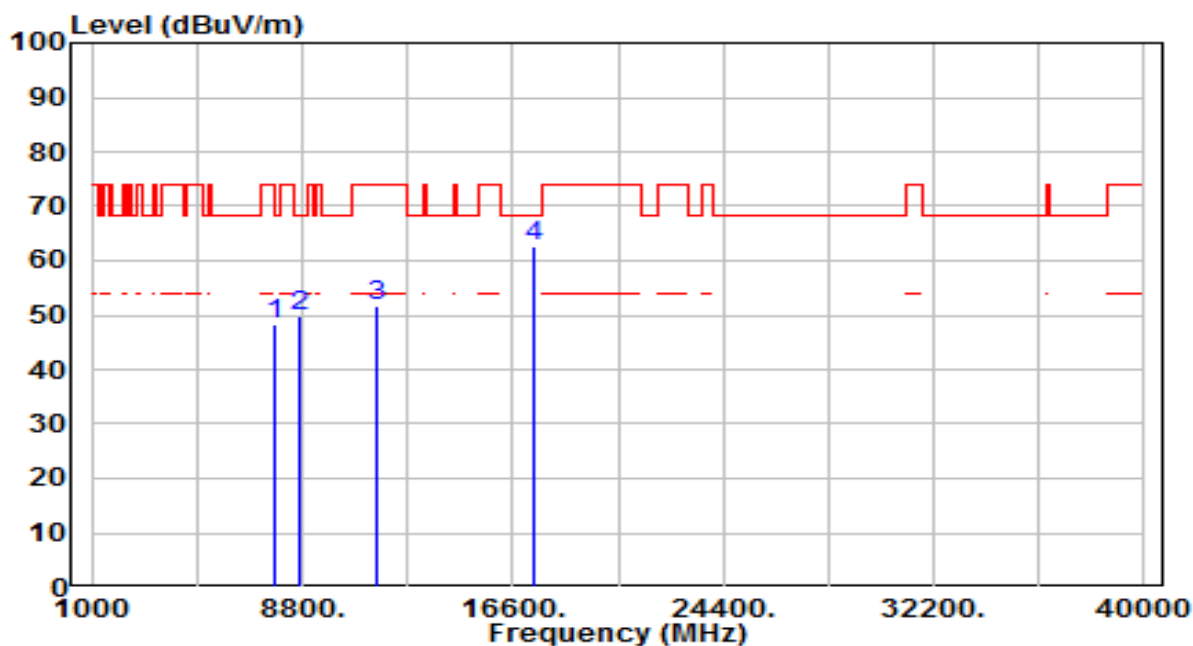


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7673.031	36.62	13.08	49.71	-24.29	74.00	200	151	Peak
2	8738.188	32.75	14.44	47.20	-21.00	68.20	200	176	Peak
3	11510.000	31.91	19.82	51.73	-22.27	74.00	200	222	Peak
4	* 17265.000	34.10	25.89	59.99	-8.21	68.20	200	101	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0+1	Test Voltage	AC 120V/60Hz

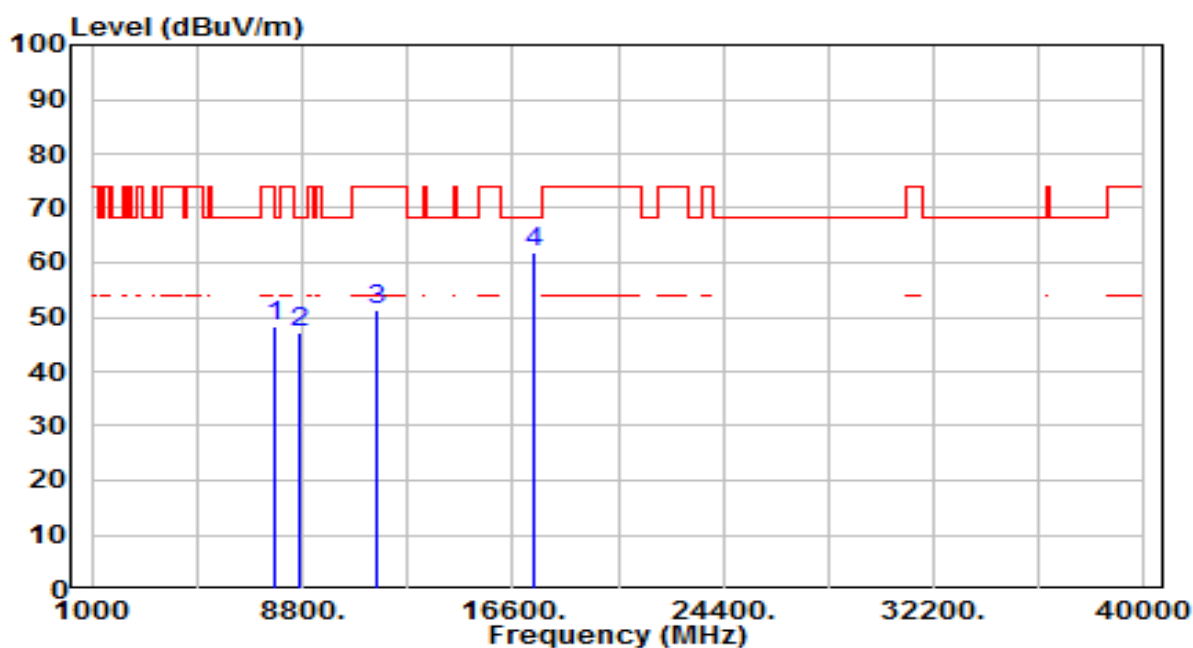


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7754.844	35.30	13.19	48.49	-19.71	68.20	200	150	Peak
2	8694.094	35.58	14.33	49.91	-18.29	68.20	200	210	Peak
3	11590.000	31.86	19.69	51.55	-22.45	74.00	200	57	Peak
4	* 17385.000	36.02	26.80	62.82	-5.38	68.20	200	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0+1	Test Voltage	AC 120V/60Hz

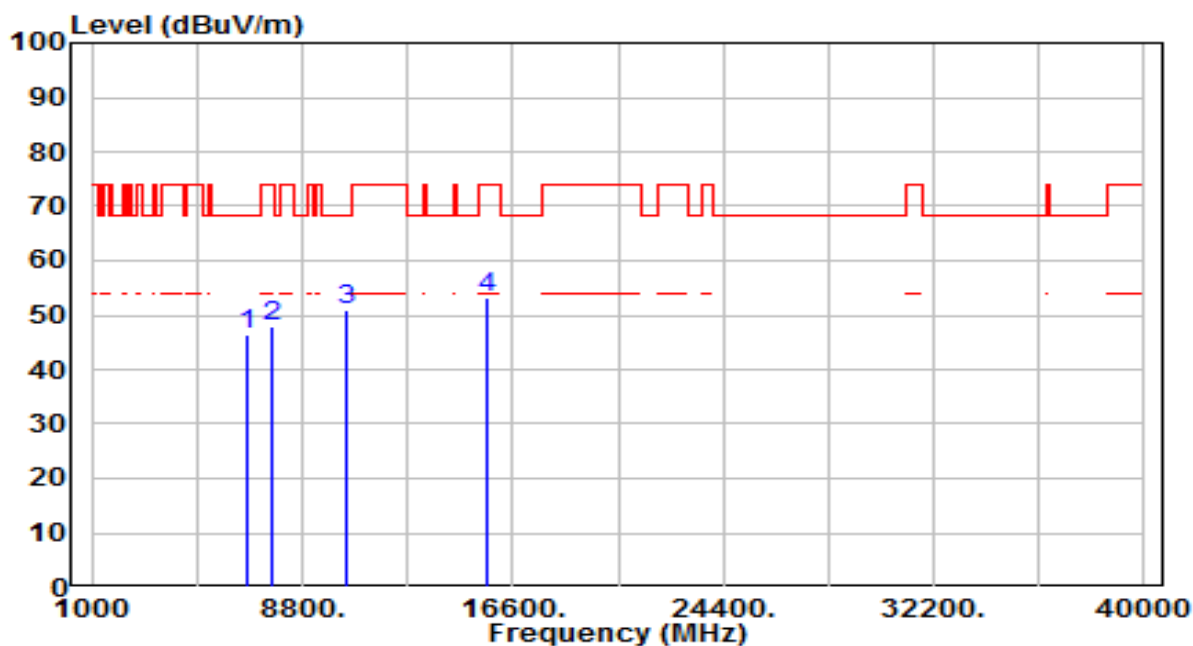


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7745.281	35.21	13.18	48.39	-25.61	74.00	200	2	Peak
2	8685.594	32.85	14.31	47.16	-21.04	68.20	200	76	Peak
3	11590.000	31.49	19.69	51.18	-22.82	74.00	200	218	Peak
4	* 17385.000	35.02	26.80	61.82	-6.38	68.20	200	349	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_ANT 0+1	Test Voltage	AC 120V/60Hz

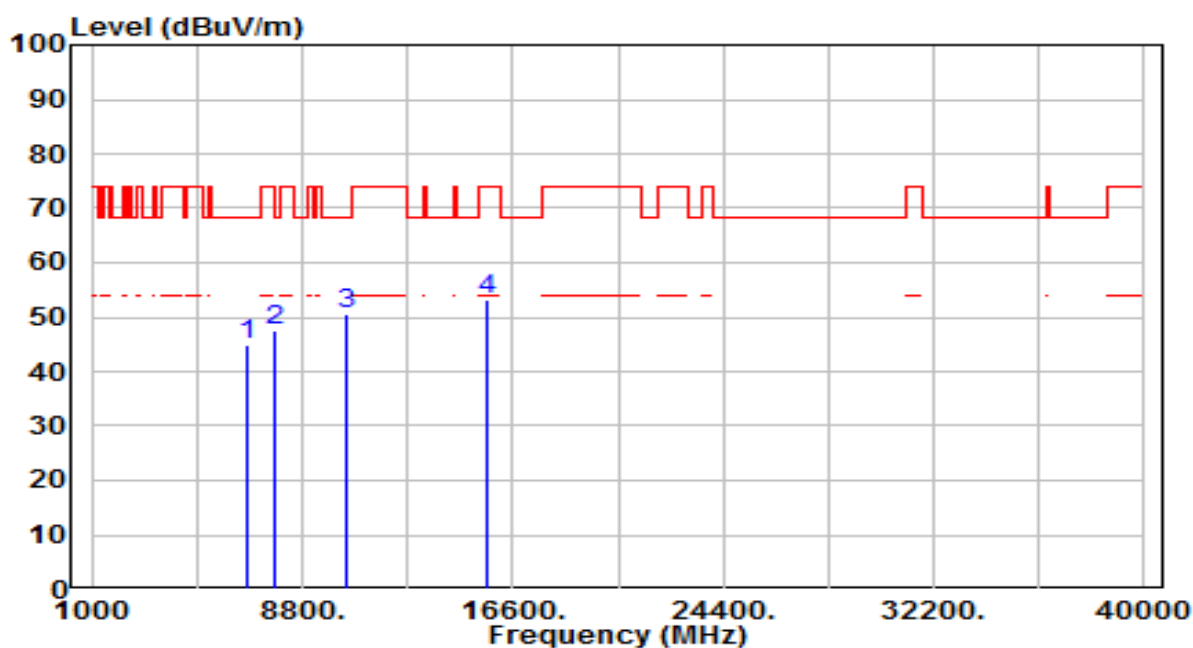


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6794.875	36.14	10.16	46.30	-21.90	68.20	200	163	Peak
2	7718.188	34.71	13.14	47.85	-26.15	74.00	200	128	Peak
3	* 10420.000	32.78	18.20	50.98	-17.22	68.20	200	1	Peak
4	15630.000	32.41	20.95	53.36	-20.64	74.00	200	323	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_ANT 0+1	Test Voltage	AC 120V/60Hz

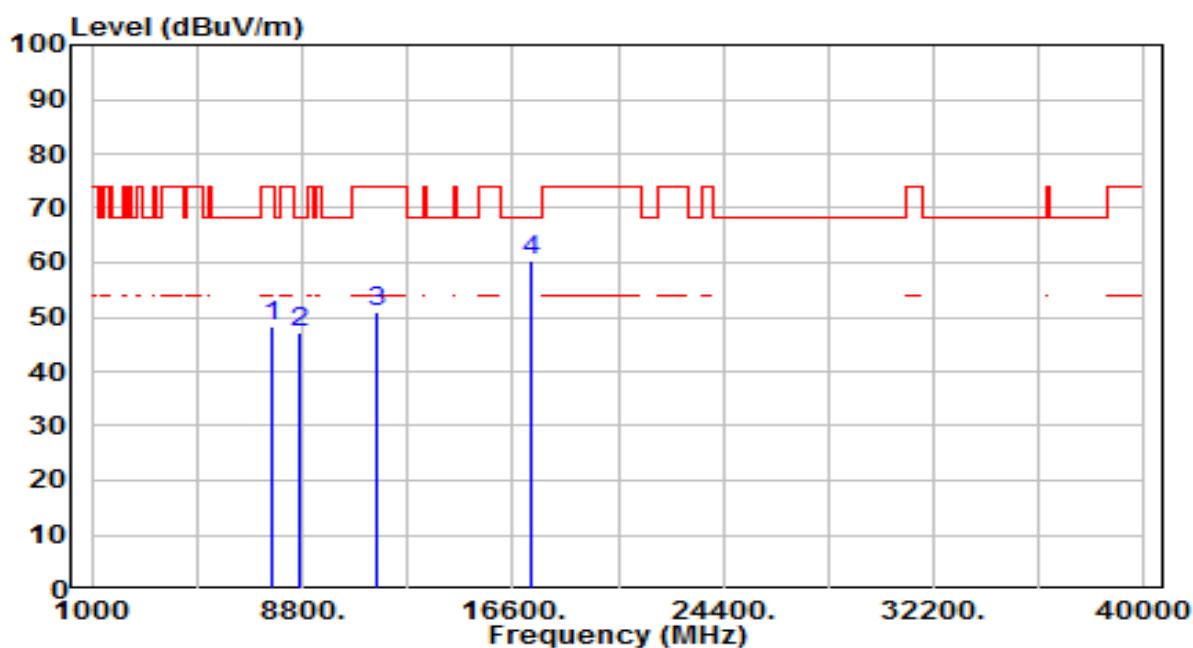


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	6739.094	35.08	9.90	44.97	-23.23	68.20	200	250	Peak
2	7749.531	34.27	13.18	47.45	-26.55	74.00	200	30	Peak
3	* 10420.000	32.24	18.20	50.44	-17.76	68.20	200	318	Peak
4	15630.000	32.38	20.95	53.33	-20.67	74.00	200	197	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band4_CH 155_ANT 0+1	Test Voltage	AC 120V/60Hz

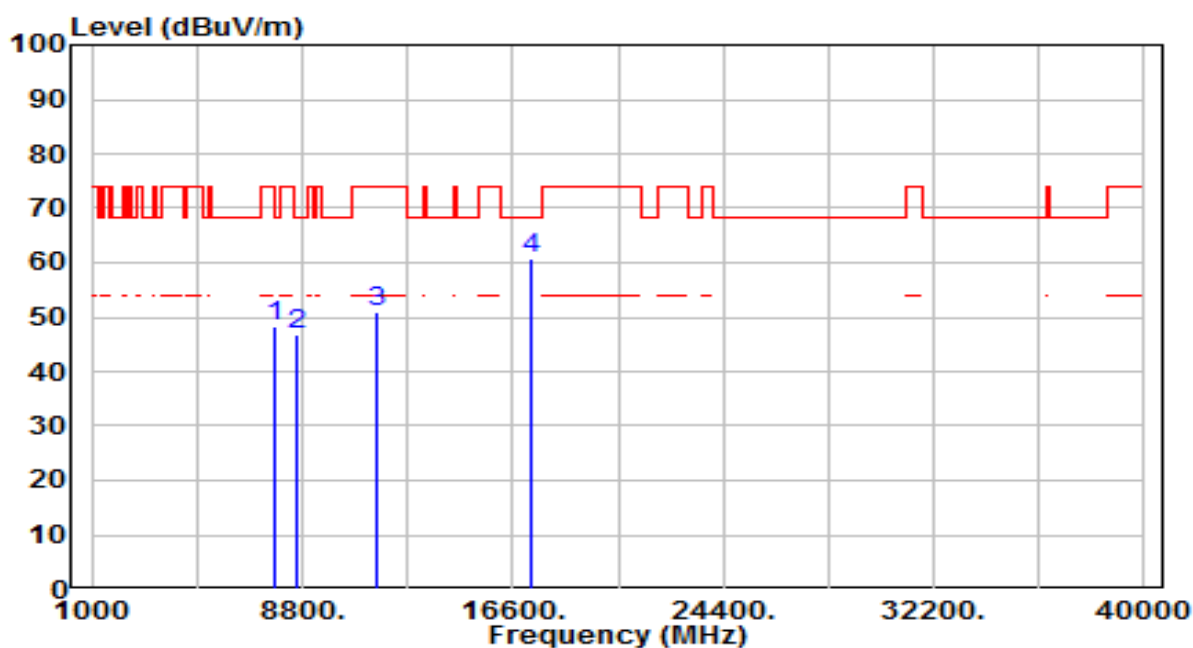


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7713.938	35.21	13.14	48.35	-25.65	74.00	200	259	Peak
2	8660.625	32.74	14.25	46.99	-21.21	68.20	200	155	Peak
3	11550.000	31.31	19.76	51.07	-22.93	74.00	200	60	Peak
4	* 17325.000	34.07	26.35	60.42	-7.78	68.20	200	64	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band4_CH 155_ANT 0+1	Test Voltage	AC 120V/60Hz

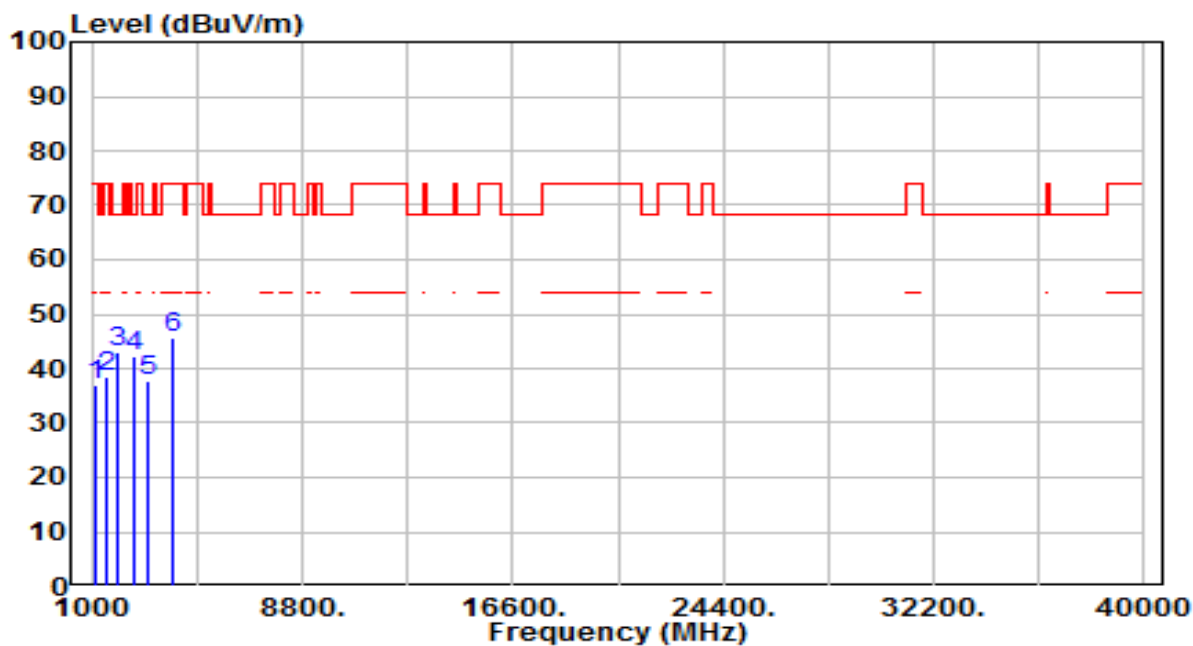


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	7753.781	35.18	13.19	48.37	-19.83	68.20	200	70	Peak
2	8635.125	32.72	14.19	46.91	-21.29	68.20	200	250	Peak
3	11550.000	31.06	19.76	50.82	-23.18	74.00	200	206	Peak
4	* 17325.000	34.49	26.35	60.84	-7.36	68.20	200	0	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

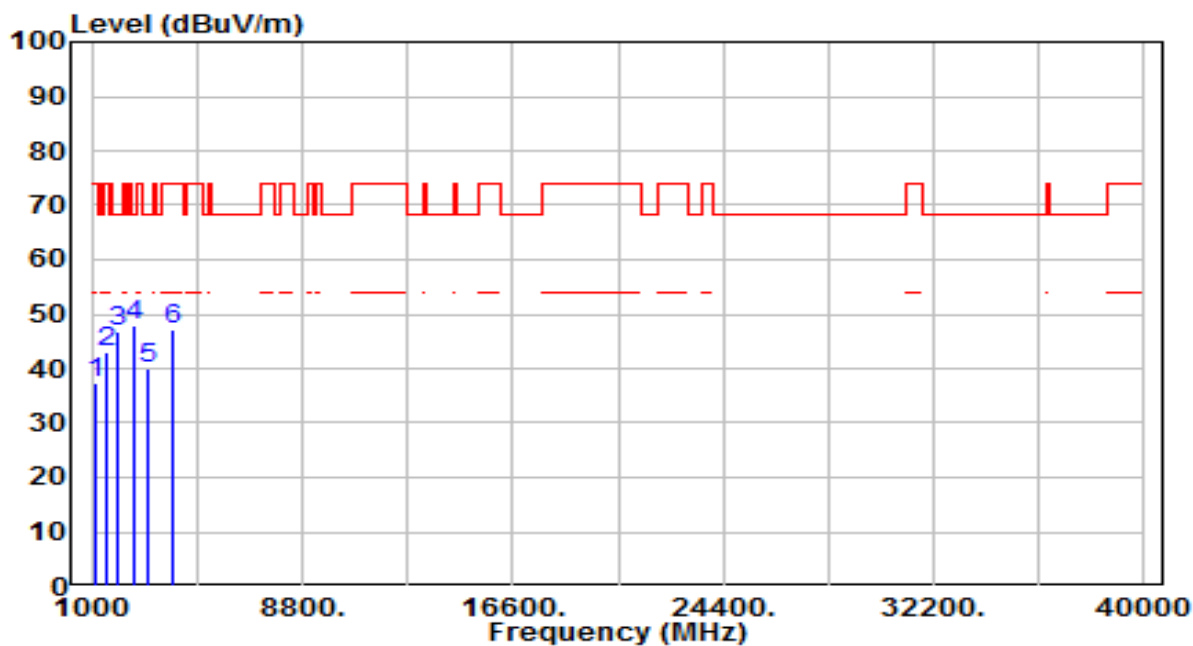


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	1171.063	41.90	-5.04	36.86	-37.14	74.00	200	317	Peak
2	1557.813	42.27	-3.88	38.39	-35.61	74.00	200	210	Peak
3	* 1999.281	46.06	-3.00	43.06	-25.14	68.20	200	307	Peak
4	2593.750	43.54	-1.47	42.08	-26.12	68.20	200	245	Peak
5	3125.531	38.84	-1.25	37.59	-30.61	68.20	200	155	Peak
6	3999.969	44.36	1.20	45.56	-28.44	74.00	200	252	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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_Band1_CH 44_ANT 0+1	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	1116.344	42.48	-5.21	37.27	-36.73	74.00	200	208	Peak
2	1560.469	46.72	-3.87	42.85	-31.15	74.00	200	139	Peak
3	1999.813	49.85	-3.00	46.85	-21.35	68.20	200	184	Peak
4	* 2596.406	49.45	-1.47	47.98	-20.22	68.20	200	177	Peak
5	3125.531	41.30	-1.25	40.05	-28.15	68.20	200	139	Peak
6	3999.969	45.88	1.20	47.08	-26.92	74.00	200	146	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.

7.8. Radiated Restricted Band Edge Measurement

7.8.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For FCC transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For IC transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission 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-Radiated emission limits; general requirements.

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

7.8.2. Test Procedure Used

KDB 789033 D02v02r01- Section G

7.8.3. Test Setting**Peak Measurements above 1GHz**

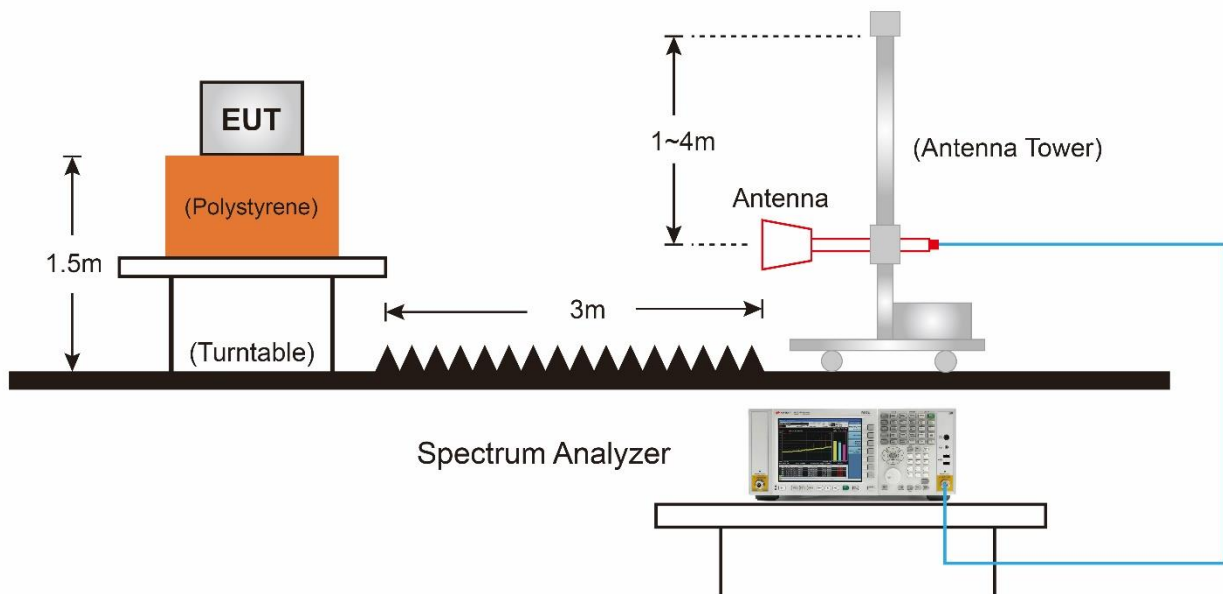
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

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

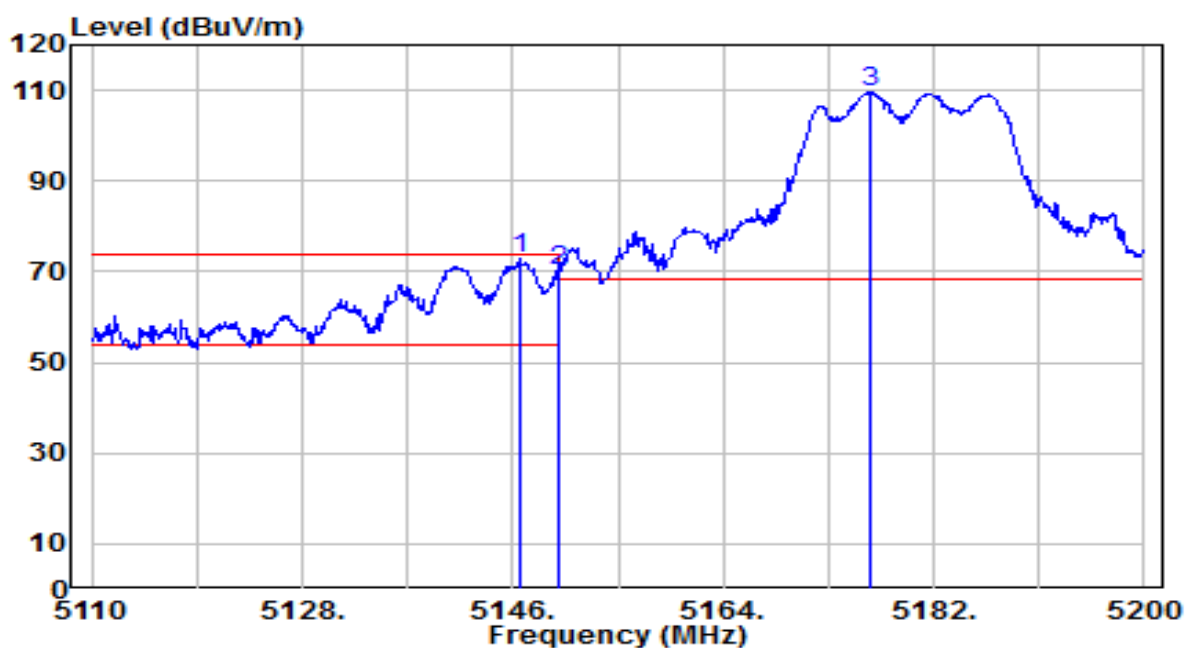
2. RBW = 1MHz
3. VBW If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW $\leq$ RBW/100 (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$.
4. Detector = Peak
5. Sweep time = auto
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle.

7.8.4. Test Setup



7.8.5. Test Result

EUT	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

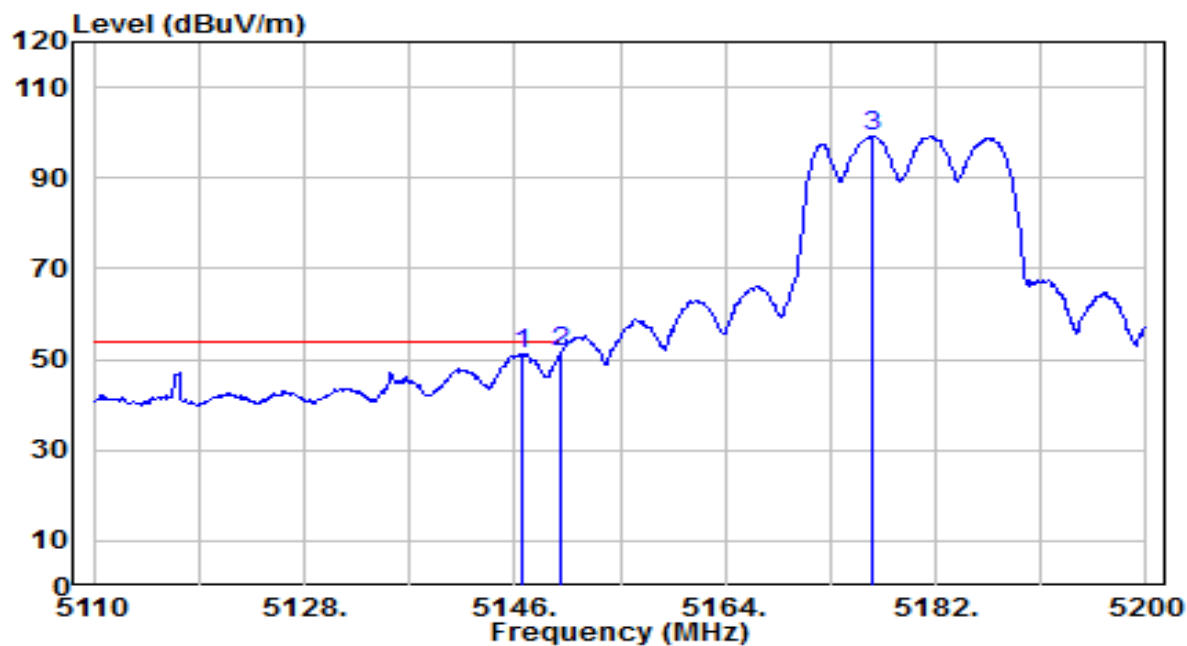


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5146.540	68.49	4.46	72.94	-1.06	74.00	240	160	Peak
2		5150.000	65.81	4.46	70.27	-3.73	74.00	240	160	Peak
3		5176.510	104.93	4.49	109.42	N/A	N/A	240	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

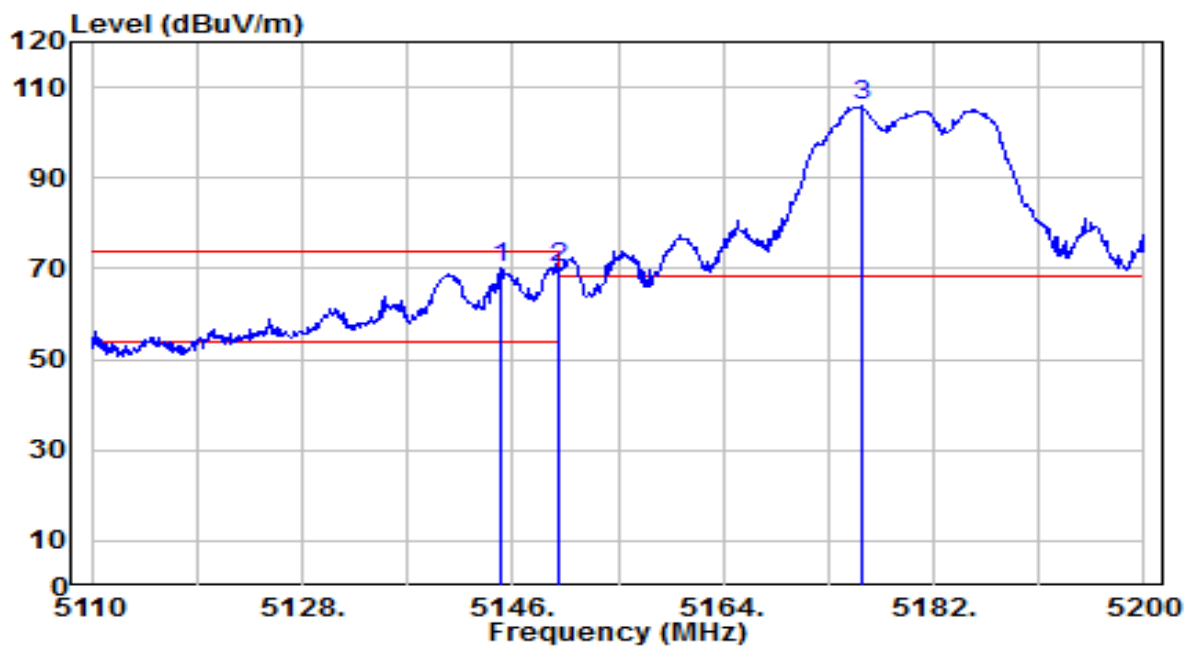


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5146.540	46.88	4.46	51.34	-2.66	54.00	240	160	Average
2	* 5150.000	47.35	4.46	51.81	-2.19	54.00	240	160	Average
3	5176.510	94.75	4.49	99.24	N/A	N/A	240	160	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

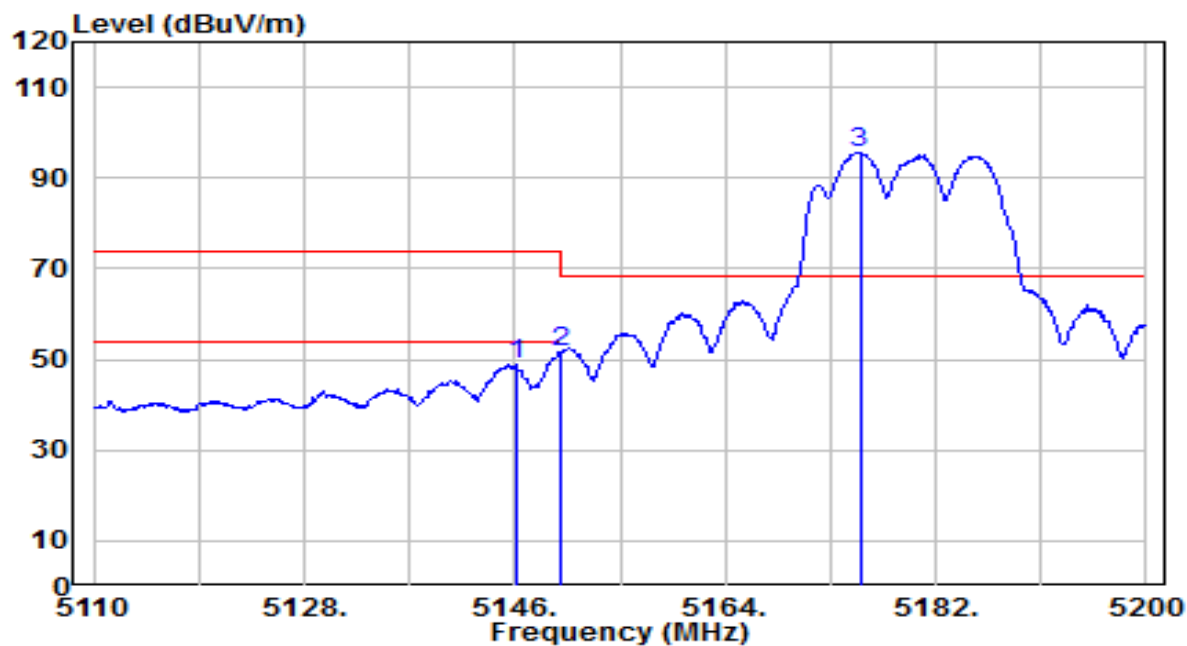


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5144.920	65.58	4.46	70.04	-3.96	74.00	230	160	Peak
2		5150.000	65.58	4.46	70.04	-3.96	74.00	230	160	Peak
3		5175.790	101.30	4.49	105.79	N/A	N/A	230	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

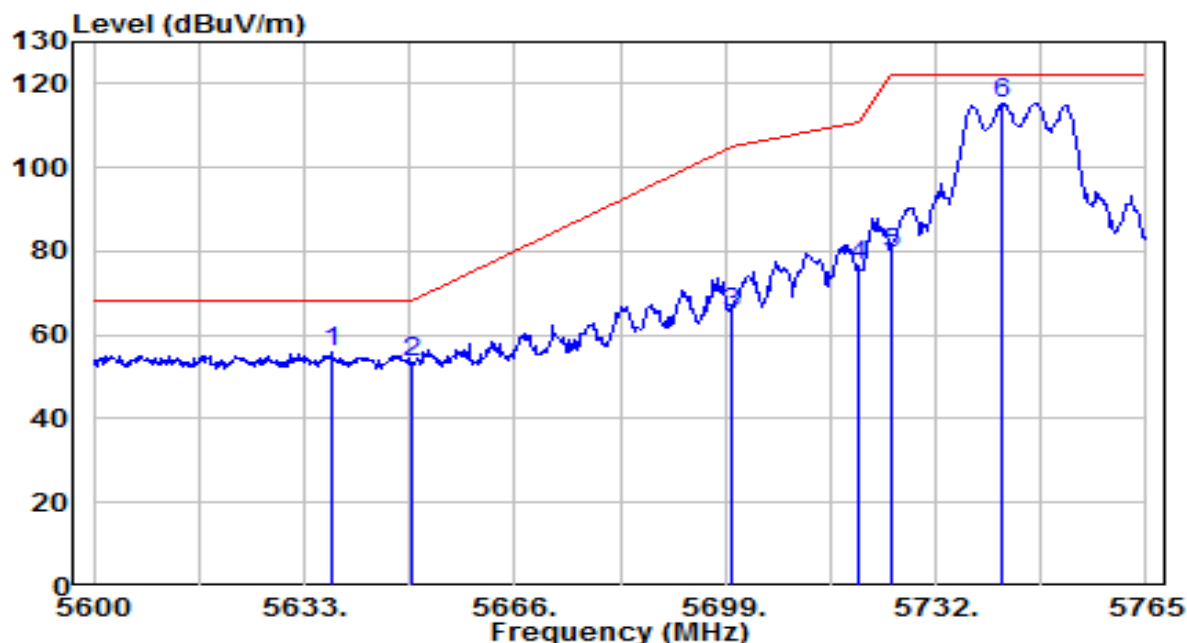


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5146.090	44.28	4.46	48.74	-25.26	74.00	230	160	Peak
2	* 5150.000	47.32	4.46	51.78	-22.22	74.00	230	160	Peak
3	5175.520	91.11	4.49	95.60	N/A	N/A	230	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

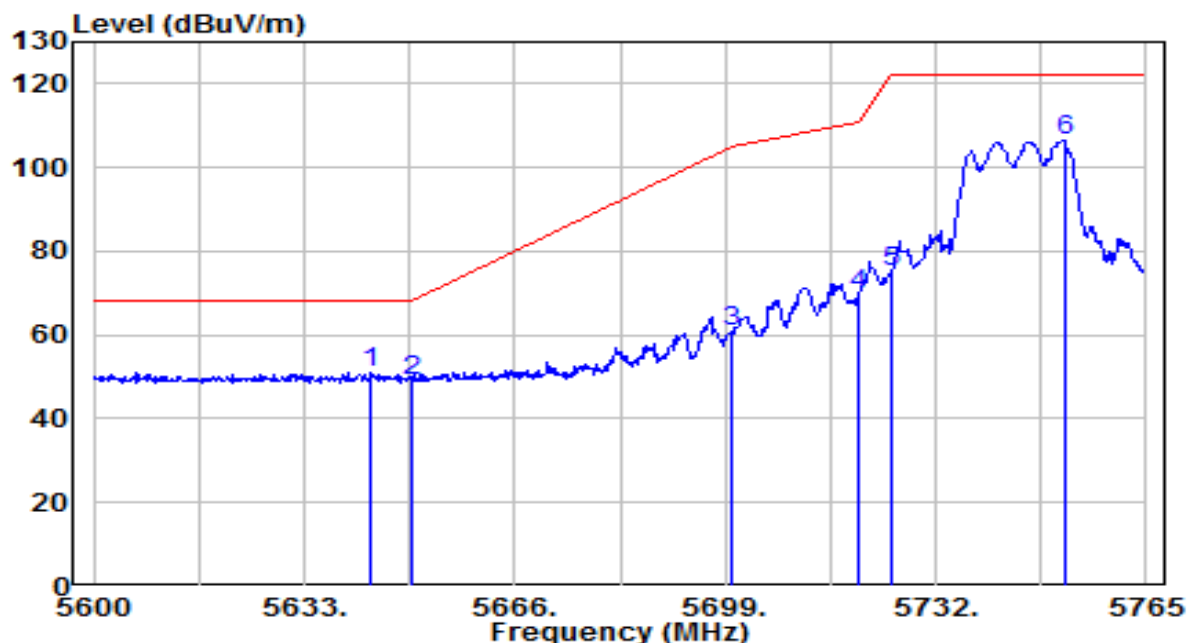


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 5637.455	50.63	5.34	55.97	-12.23	68.20	245	155	Peak
2	5650.000	47.99	5.38	53.37	-14.83	68.20	245	155	Peak
3	5700.000	59.79	5.56	65.35	-39.85	105.20	245	155	Peak
4	5720.000	70.81	5.63	76.44	-34.36	110.80	245	155	Peak
5	5725.000	74.01	5.64	79.65	-42.55	122.20	245	155	Peak
6	5742.230	109.69	5.70	115.40	N/A	N/A	245	155	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

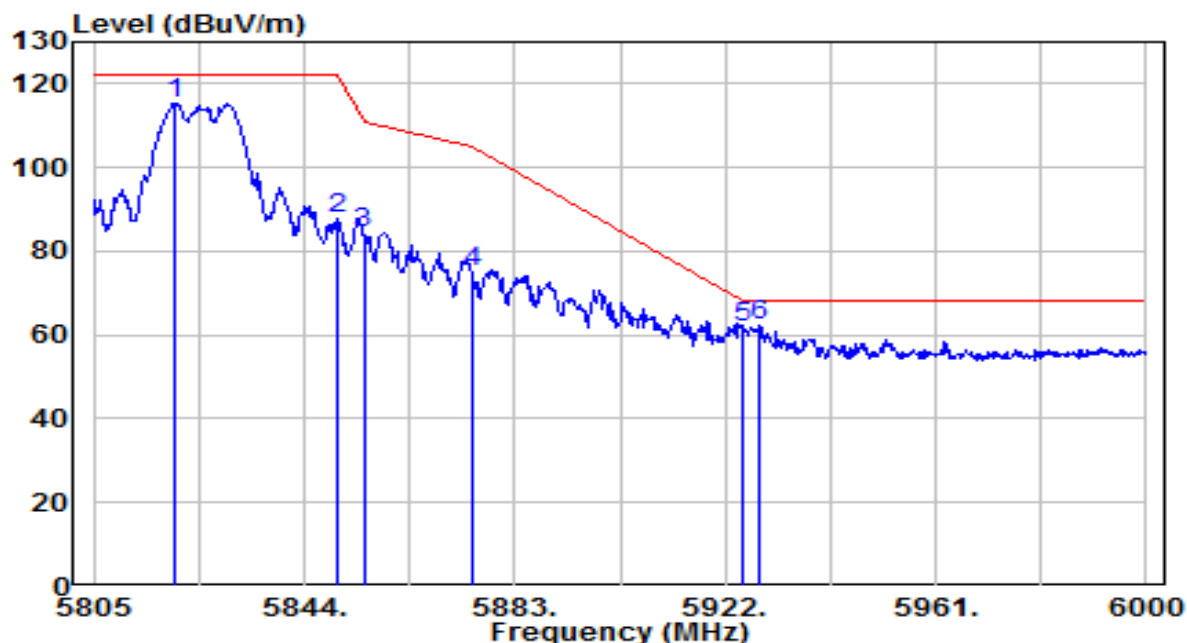


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5643.560	45.89	5.36	51.25	-16.95	68.20	105	220	Peak
2		5650.000	43.85	5.38	49.23	-18.97	68.20	105	220	Peak
3		5700.000	55.05	5.56	60.60	-44.60	105.20	105	220	Peak
4		5720.000	64.28	5.63	69.91	-40.89	110.80	105	220	Peak
5		5725.000	69.57	5.64	75.22	-46.98	122.20	105	220	Peak
6		5752.130	100.95	5.74	106.68	N/A	N/A	105	220	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

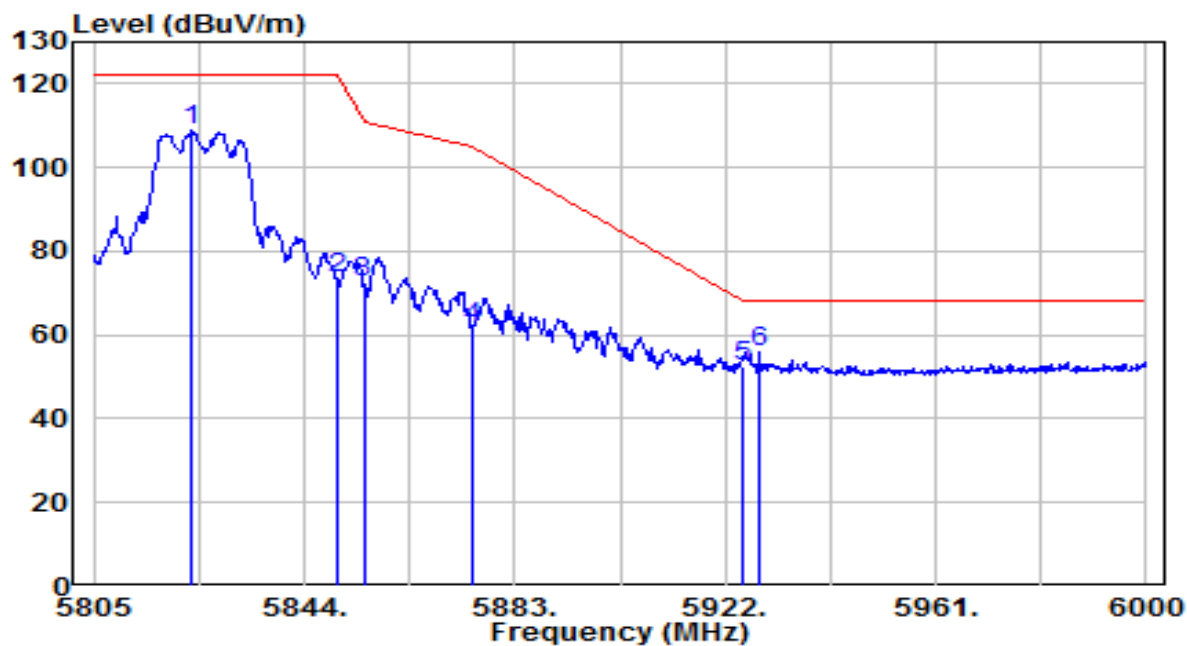


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5820.210	109.35	5.97	115.33	N/A	N/A	245	155	Peak
2	5850.000	81.58	6.08	87.66	-34.54	122.20	245	155	Peak
3	5855.000	78.07	6.10	84.17	-26.63	110.80	245	155	Peak
4	5875.000	69.08	6.17	75.24	-29.96	105.20	245	155	Peak
5	5925.000	55.42	6.34	61.76	-6.44	68.20	245	155	Peak
6	* 5928.240	55.86	6.35	62.21	-5.99	68.20	245	155	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11a_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

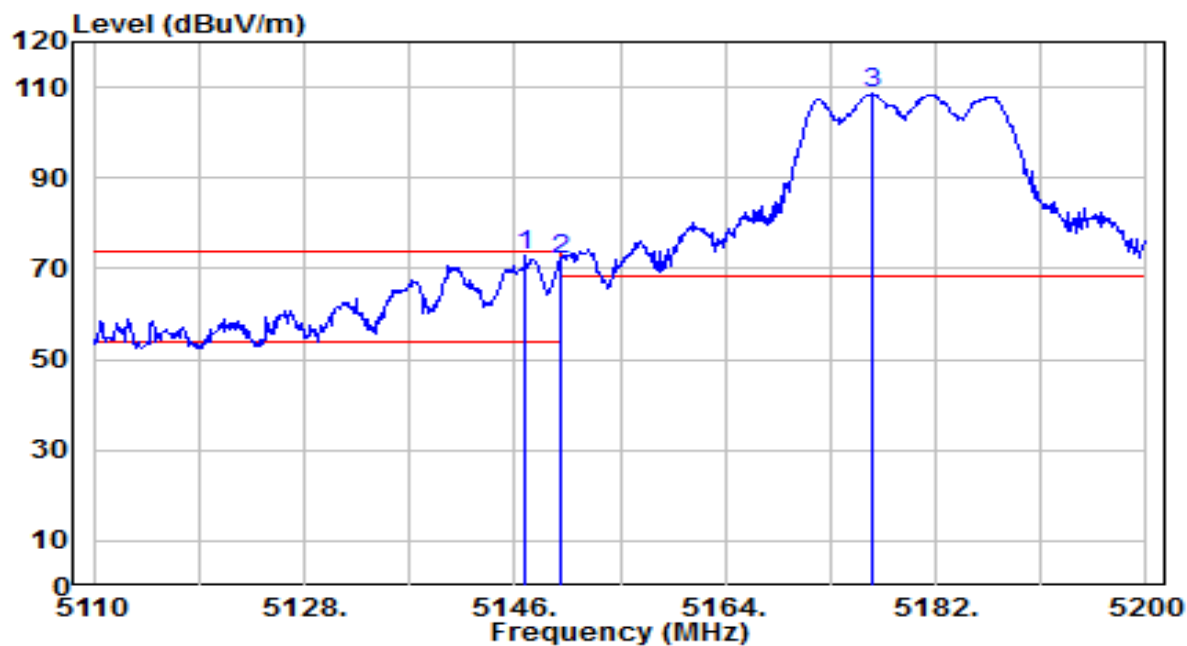


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5823.135	102.71	5.98	108.70	N/A	N/A	165	220	Peak
2	5850.000	67.62	6.08	73.70	-48.50	122.20	165	220	Peak
3	5855.000	66.60	6.10	72.70	-38.10	110.80	165	220	Peak
4	5875.000	55.62	6.17	61.79	-43.41	105.20	165	220	Peak
5	5925.000	46.34	6.34	52.68	-15.52	68.20	165	220	Peak
6	* 5928.240	49.49	6.35	55.84	-12.36	68.20	165	220	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

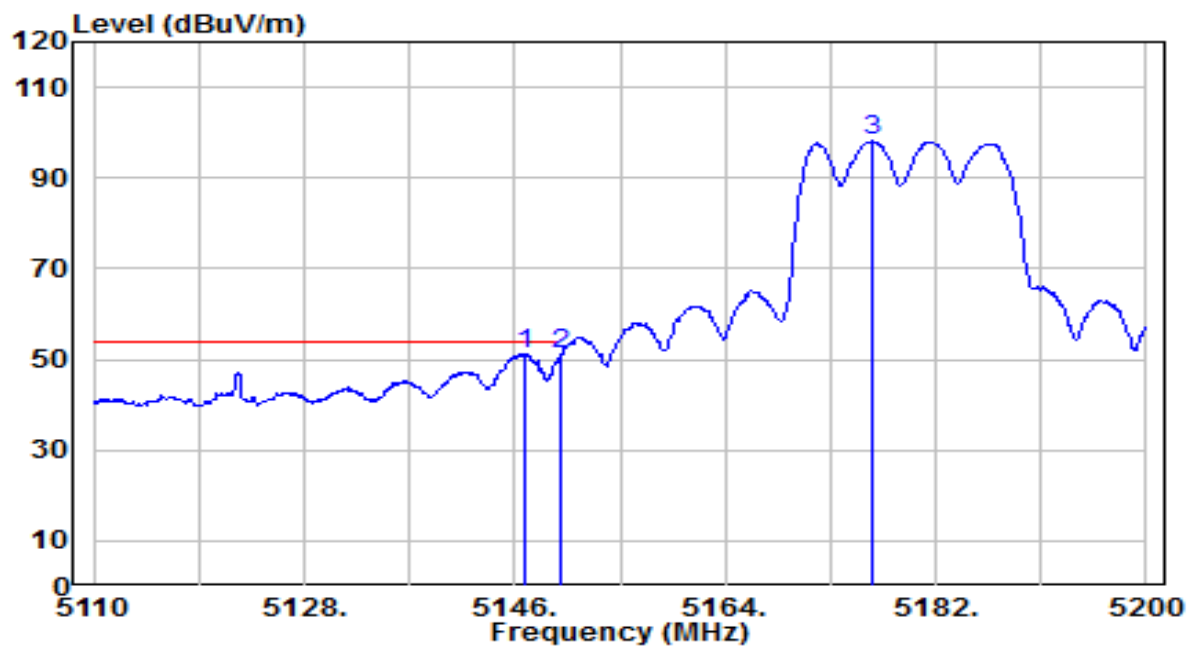


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5146.900	68.24	4.46	72.70	-1.30	74.00	240	160	Peak
2		5150.000	67.72	4.46	72.18	-1.82	74.00	240	160	Peak
3		5176.690	104.24	4.49	108.73	N/A	N/A	240	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

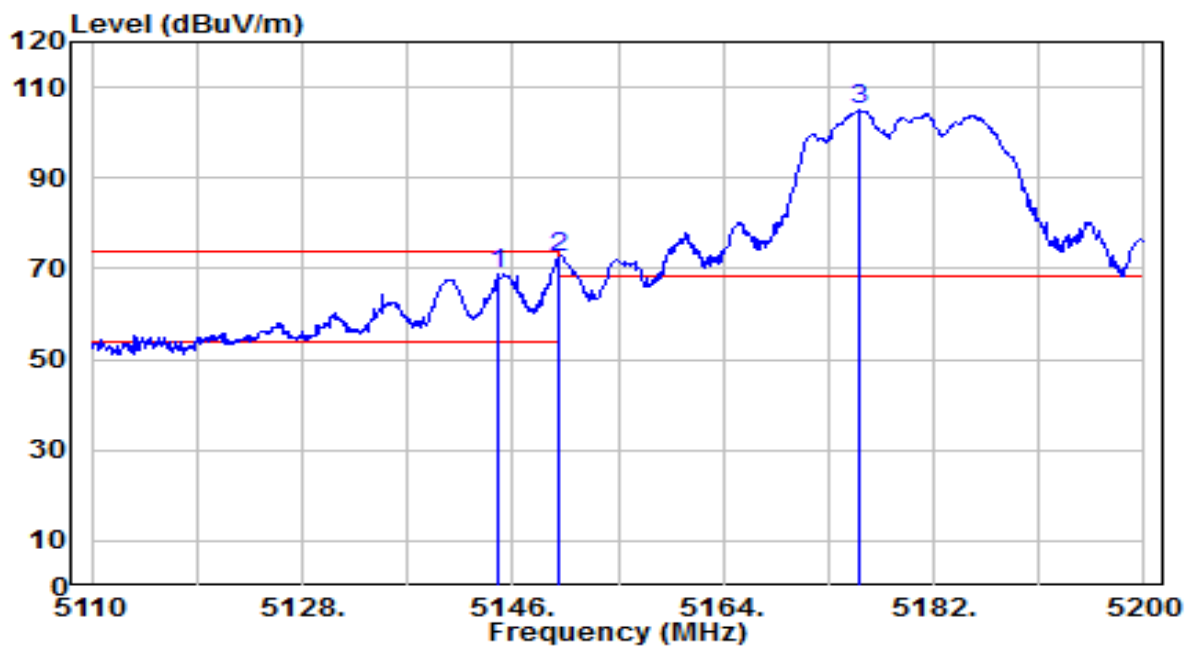


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5146.810	46.81	4.46	51.26	-2.74	54.00	240	160	Average
2		5150.000	46.80	4.46	51.26	-2.74	54.00	240	160	Average
3		5176.510	93.74	4.49	98.23	N/A	N/A	240	160	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

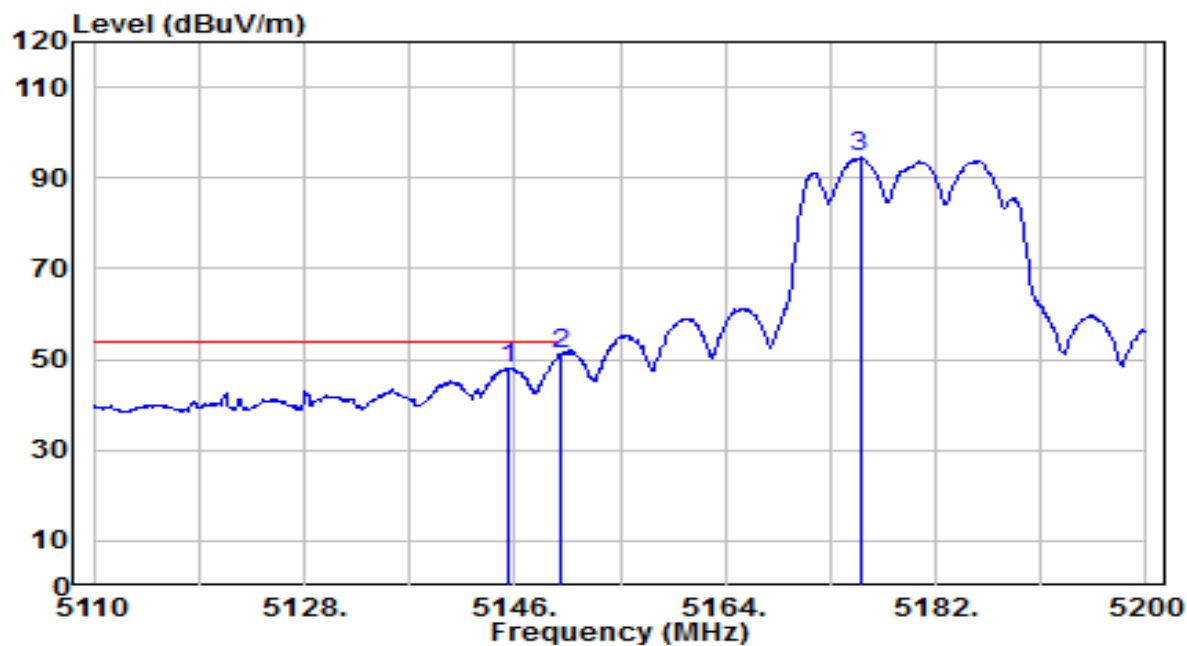


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5144.650	64.51	4.45	68.97	-5.03	74.00	230	160	Peak
2	* 5150.000	68.12	4.46	72.58	-1.42	74.00	230	160	Peak
3	5175.700	100.59	4.49	105.08	N/A	N/A	230	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1	Test Voltage	AC 120V/60Hz

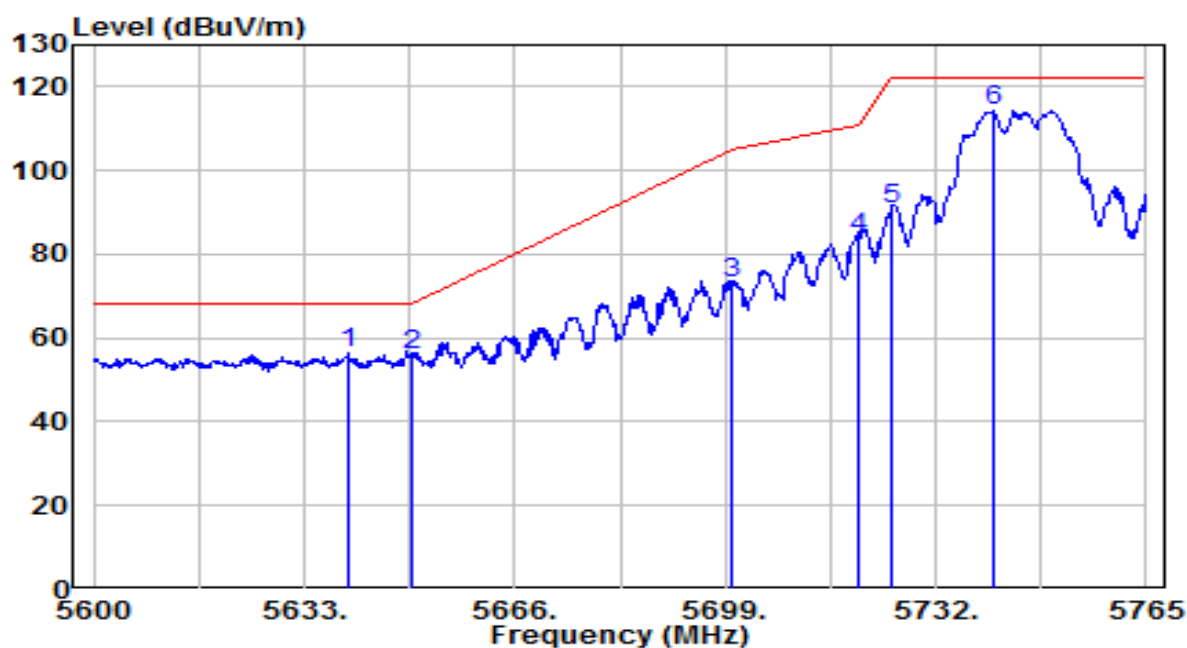


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5145.370	43.64	4.46	48.10	-5.90	54.00	230	160	Average
2	* 5150.000	46.72	4.46	51.18	-2.82	54.00	230	160	Average
3	5175.520	89.97	4.49	94.46	N/A	N/A	230	160	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

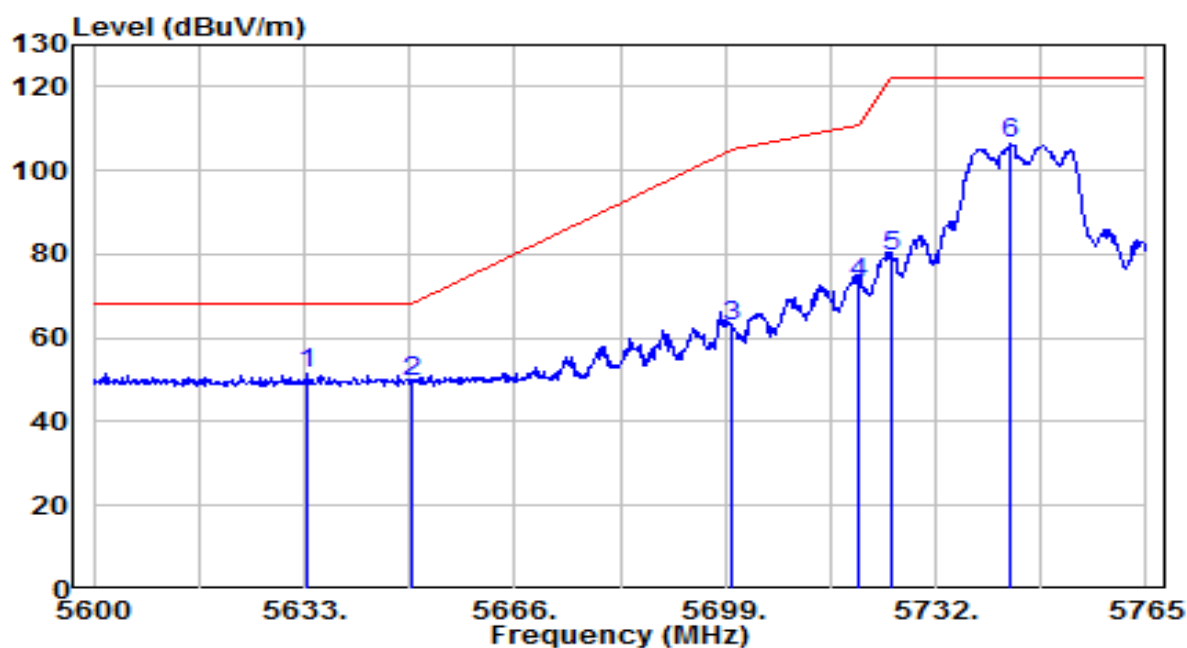


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5640.095	51.23	5.35	56.58	-11.62	68.20	245	155	Peak
2		5650.000	50.31	5.38	55.70	-12.50	68.20	245	155	Peak
3		5700.000	67.66	5.56	73.22	-31.98	105.20	245	155	Peak
4		5720.000	78.36	5.63	83.99	-26.81	110.80	245	155	Peak
5		5725.000	85.08	5.64	90.72	-31.48	122.20	245	155	Peak
6		5740.910	108.62	5.70	114.32	N/A	N/A	245	155	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 149_ANT 0+1	Test Voltage	AC 120V/60Hz

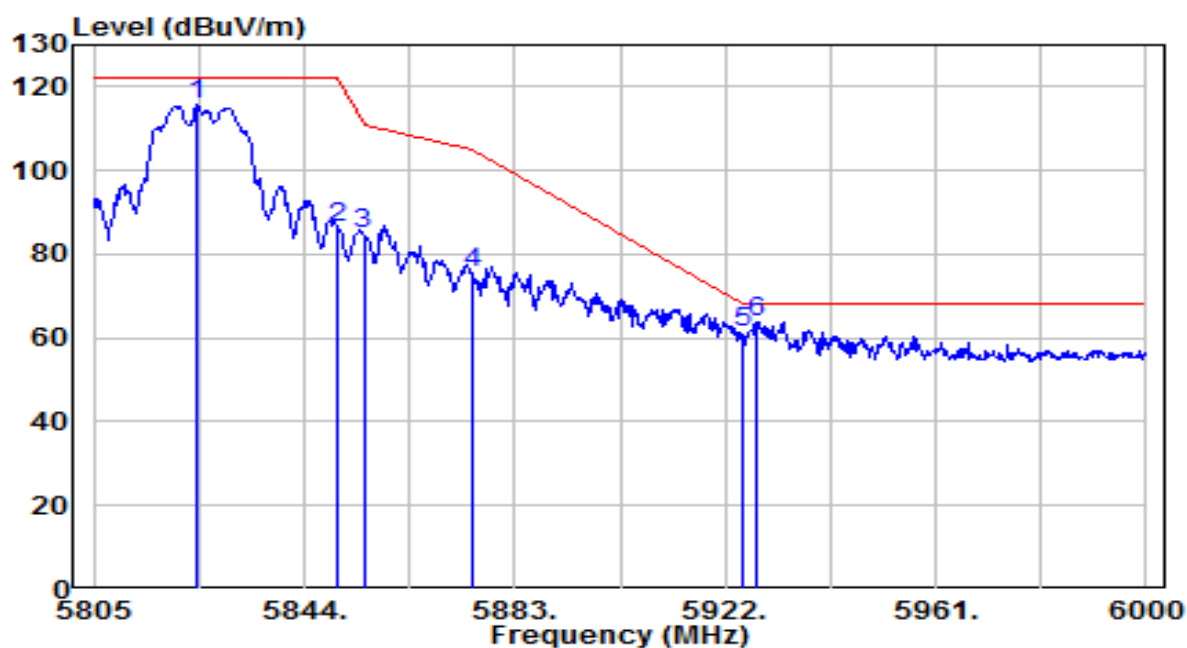


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5633.495	46.04	5.32	51.37	-16.83	68.20	105	220	Peak
2		5650.000	43.97	5.38	49.35	-18.85	68.20	105	220	Peak
3		5700.000	57.14	5.56	62.69	-42.51	105.20	105	220	Peak
4		5720.000	67.25	5.63	72.88	-37.92	110.80	105	220	Peak
5		5725.000	73.86	5.64	79.50	-42.70	122.20	105	220	Peak
6		5743.715	100.62	5.71	106.33	N/A	N/A	105	220	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
- 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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

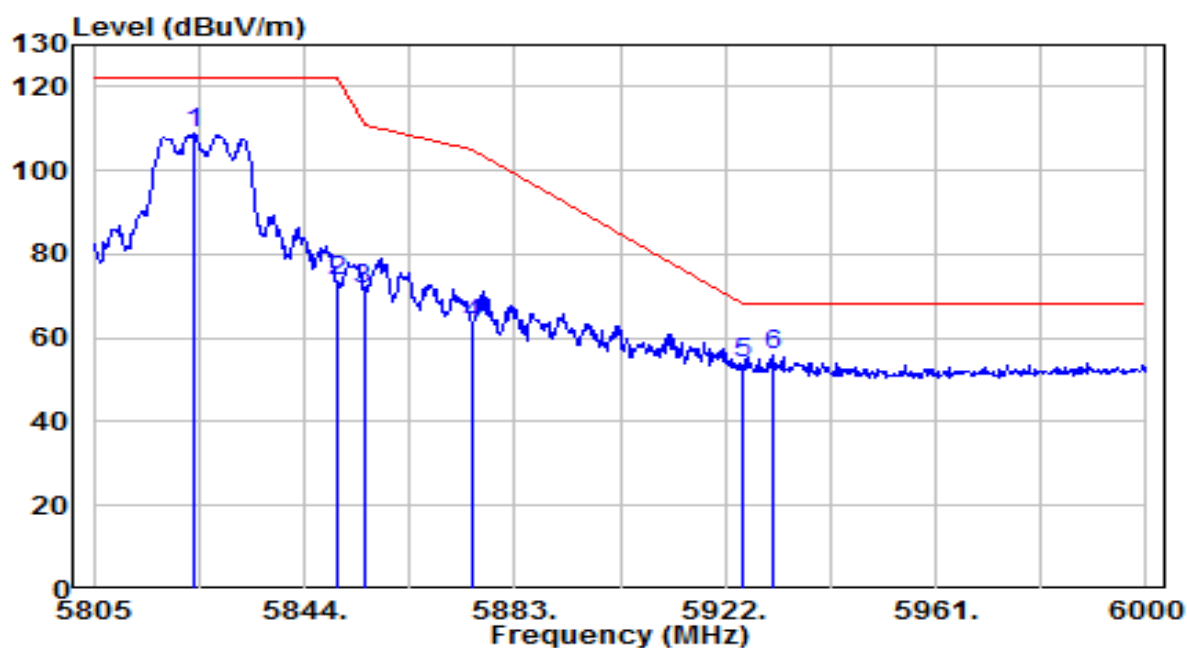


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5824.305	109.61	5.99	115.60	N/A	N/A	245	155	Peak
2	5850.000	80.40	6.08	86.47	-35.73	122.20	245	155	Peak
3	5855.000	78.61	6.10	84.70	-26.10	110.80	245	155	Peak
4	5875.000	69.38	6.17	75.54	-29.66	105.20	245	155	Peak
5	5925.000	54.87	6.34	61.21	-6.99	68.20	245	155	Peak
6	* 5927.655	57.57	6.35	63.92	-4.28	68.20	245	155	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_Band4_CH 165_ANT 0+1	Test Voltage	AC 120V/60Hz

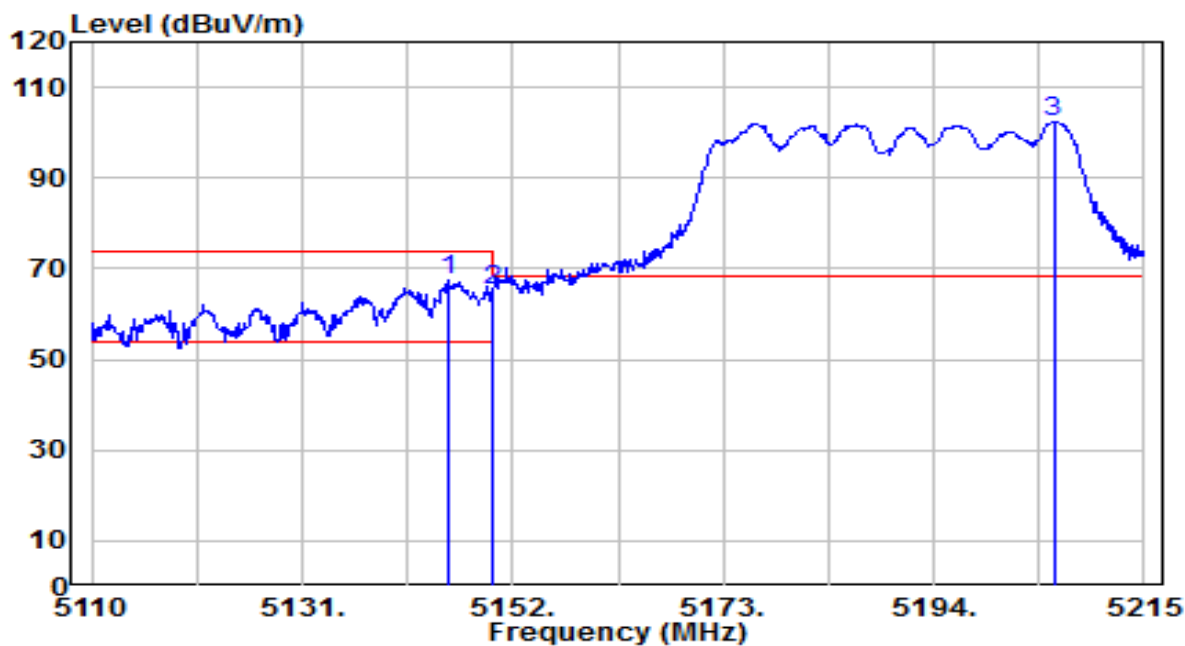


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5823.525	103.03	5.99	109.02	N/A	N/A	165	220	Peak
2	5850.000	67.58	6.08	73.66	-48.54	122.20	165	220	Peak
3	5855.000	65.35	6.10	71.45	-39.35	110.80	165	220	Peak
4	5875.000	57.18	6.17	63.35	-41.85	105.20	165	220	Peak
5	5925.000	47.60	6.34	53.94	-14.26	68.20	165	220	Peak
6	* 5930.775	49.51	6.36	55.87	-12.33	68.20	165	220	Peak

Note:

- " *", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
- 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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0+1	Test Voltage	AC 120V/60Hz

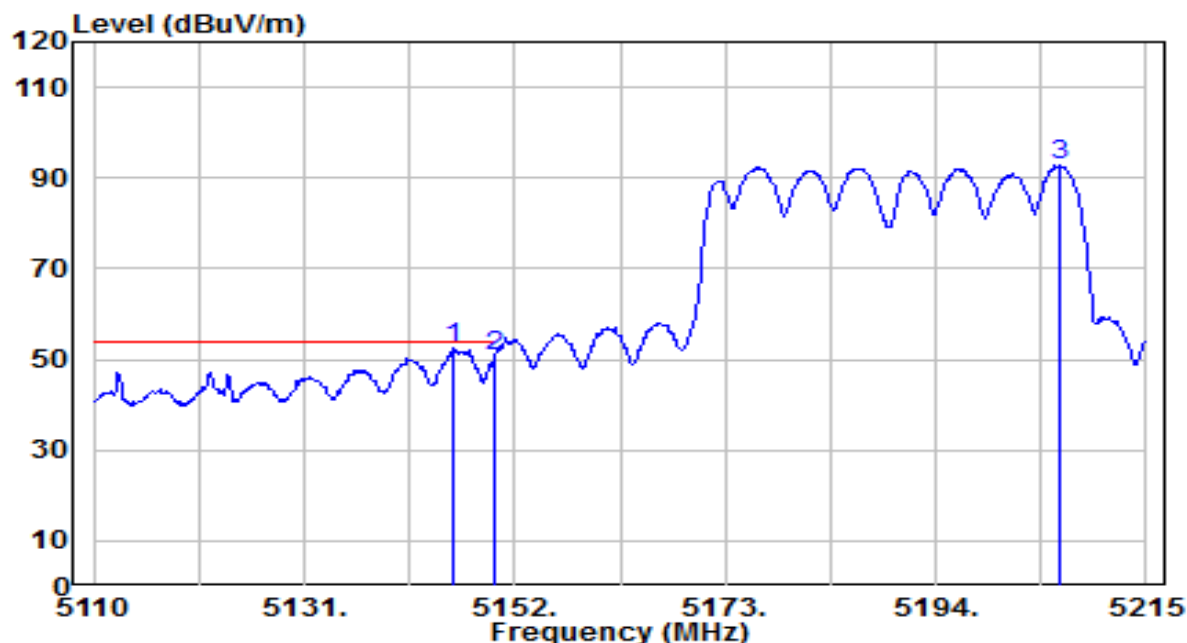


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 5145.490	62.83	4.46	67.29	-6.71	74.00	240	160	Peak
2	5150.000	60.75	4.46	65.21	-8.79	74.00	240	160	Peak
3	5205.970	97.95	4.52	102.47	N/A	N/A	240	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0+1	Test Voltage	AC 120V/60Hz

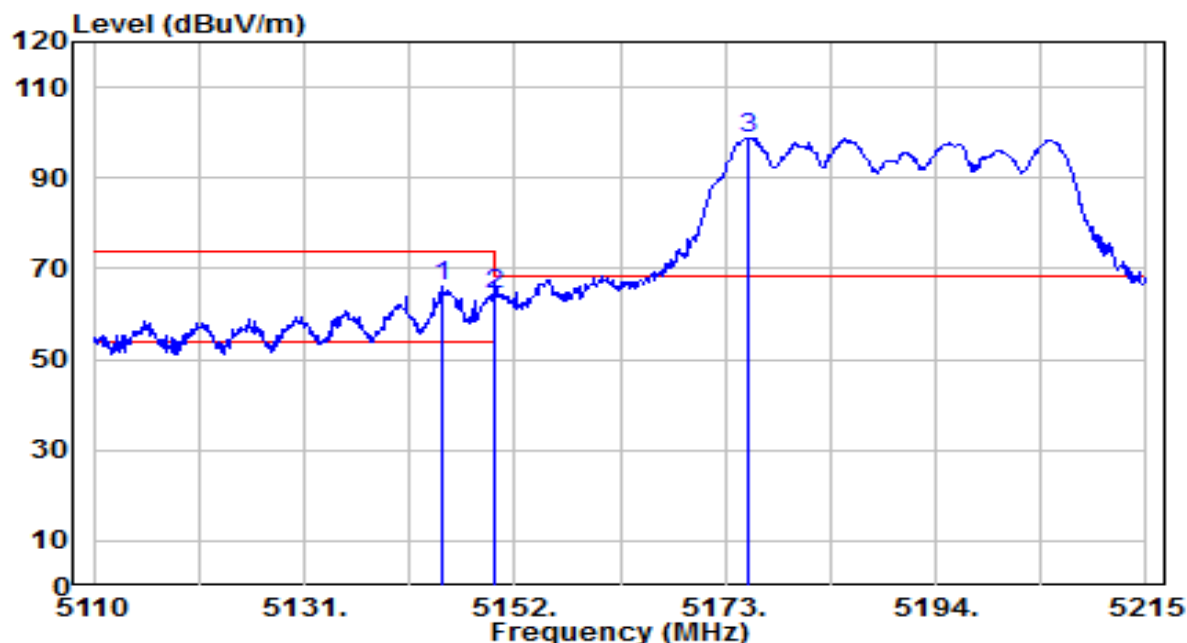


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 5145.910	48.18	4.46	52.64	-1.36	54.00	240	160	Average
2	5150.000	46.10	4.46	50.56	-3.44	54.00	240	160	Average
3	5206.285	88.25	4.53	92.78	N/A	N/A	240	160	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0+1	Test Voltage	AC 120V/60Hz

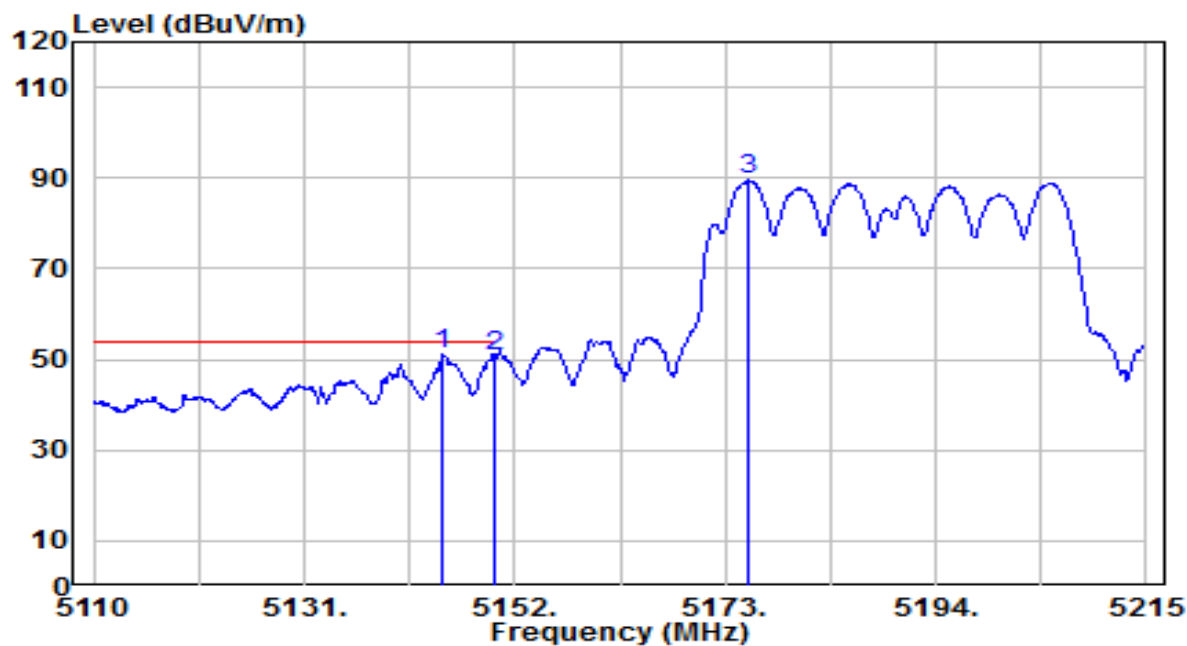


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5144.650	61.87	4.45	66.33	-7.67	74.00	230	160	Peak
2		5150.000	59.90	4.46	64.36	-9.64	74.00	230	160	Peak
3		5175.205	94.35	4.49	98.84	N/A	N/A	230	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band1_CH 38_ANT 0+1	Test Voltage	AC 120V/60Hz

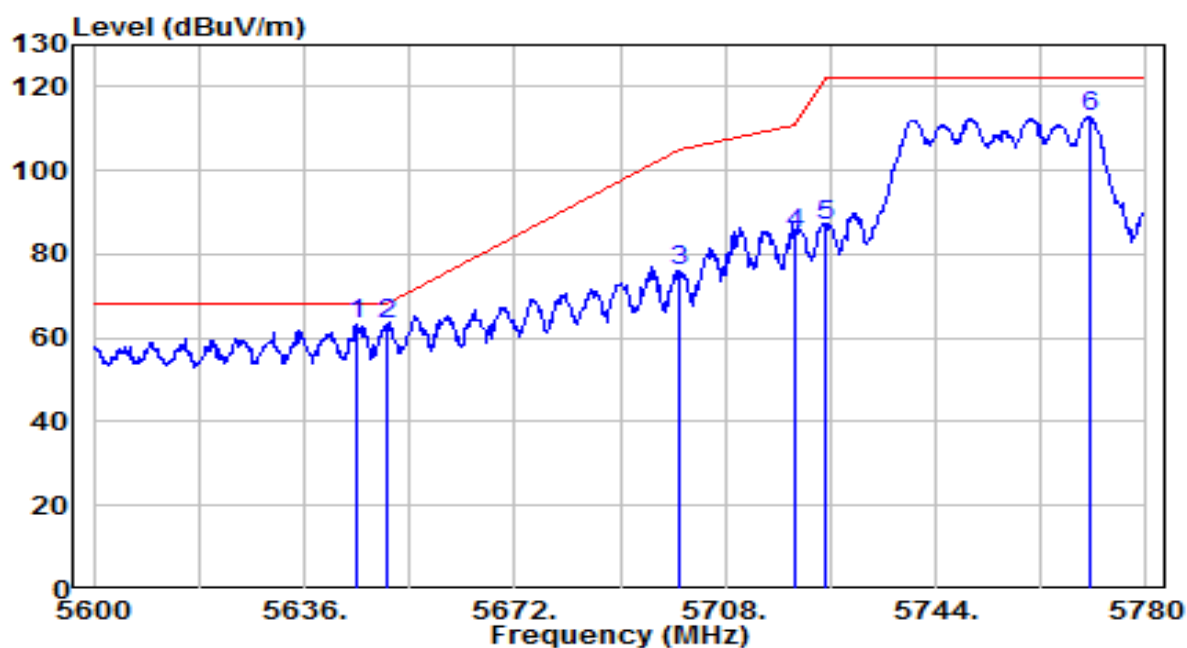


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5144.860	46.54	4.46	51.00	-3.00	54.00	230	160	Average
2		5150.000	46.07	4.46	50.53	-3.47	54.00	230	160	Average
3		5175.205	85.09	4.49	89.58	N/A	N/A	230	160	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0+1	Test Voltage	AC 120V/60Hz

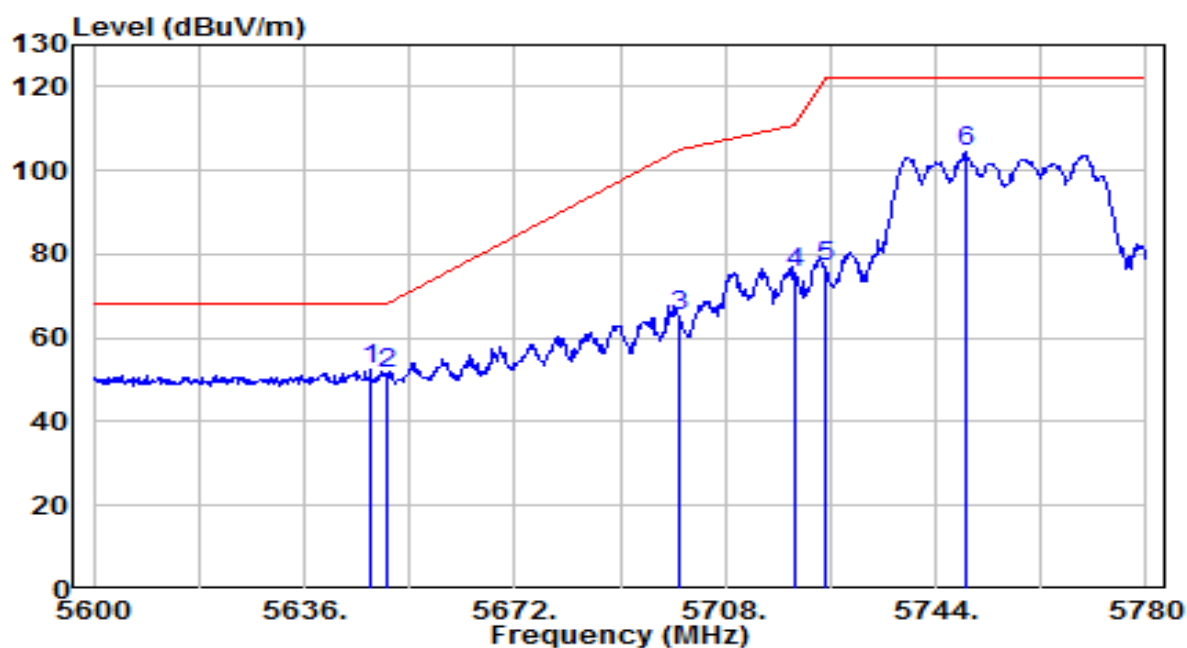


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5644.820	57.86	5.36	63.22	-4.98	68.20	245	155	Peak
2	* 5650.000	58.01	5.38	63.39	-4.81	68.20	245	155	Peak
3	5700.000	70.66	5.56	76.22	-28.98	105.20	245	155	Peak
4	5720.000	79.41	5.63	85.04	-25.76	110.80	245	155	Peak
5	5725.000	81.43	5.64	87.07	-35.13	122.20	245	155	Peak
6	5770.280	106.97	5.80	112.77	N/A	N/A	245	155	Peak

Note:

- " *", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
- 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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 151_ANT 0+1	Test Voltage	AC 120V/60Hz

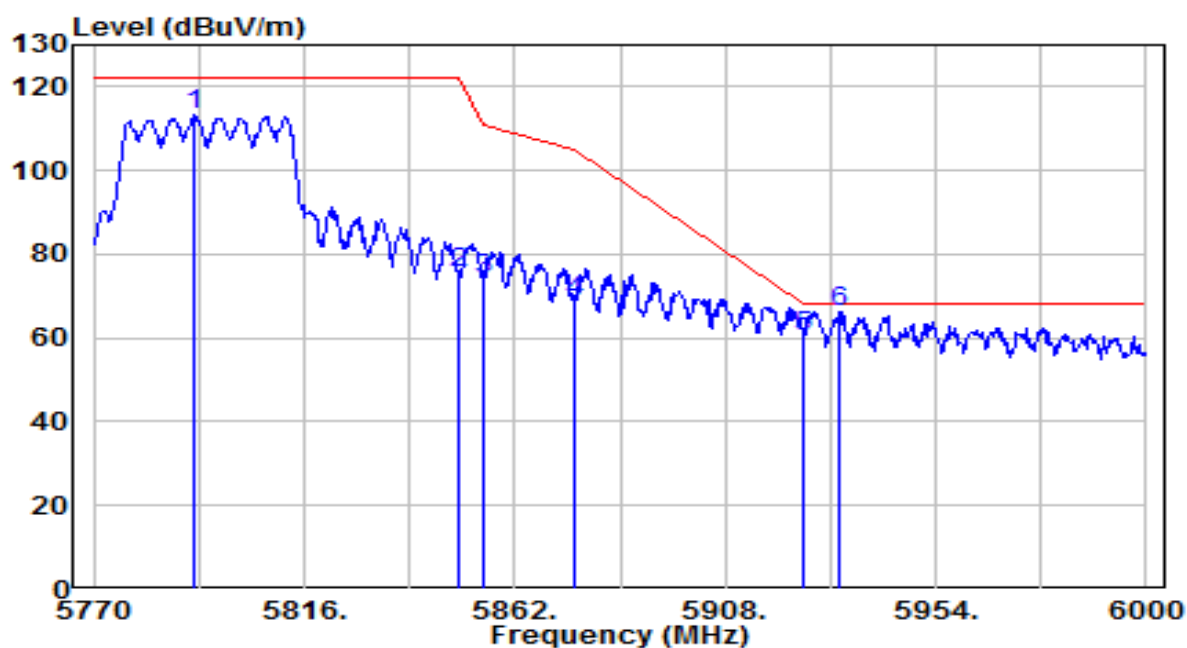


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5647.340	46.93	5.37	52.31	-15.89	68.20	105	220	Peak
2		5650.000	46.05	5.38	51.43	-16.77	68.20	105	220	Peak
3		5700.000	59.76	5.56	65.32	-39.88	105.20	105	220	Peak
4		5720.000	69.76	5.63	75.39	-35.41	110.80	105	220	Peak
5		5725.000	71.46	5.64	77.11	-45.09	122.20	105	220	Peak
6		5749.040	98.68	5.73	104.41	N/A	N/A	105	220	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
- 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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0+1	Test Voltage	AC 120V/60Hz

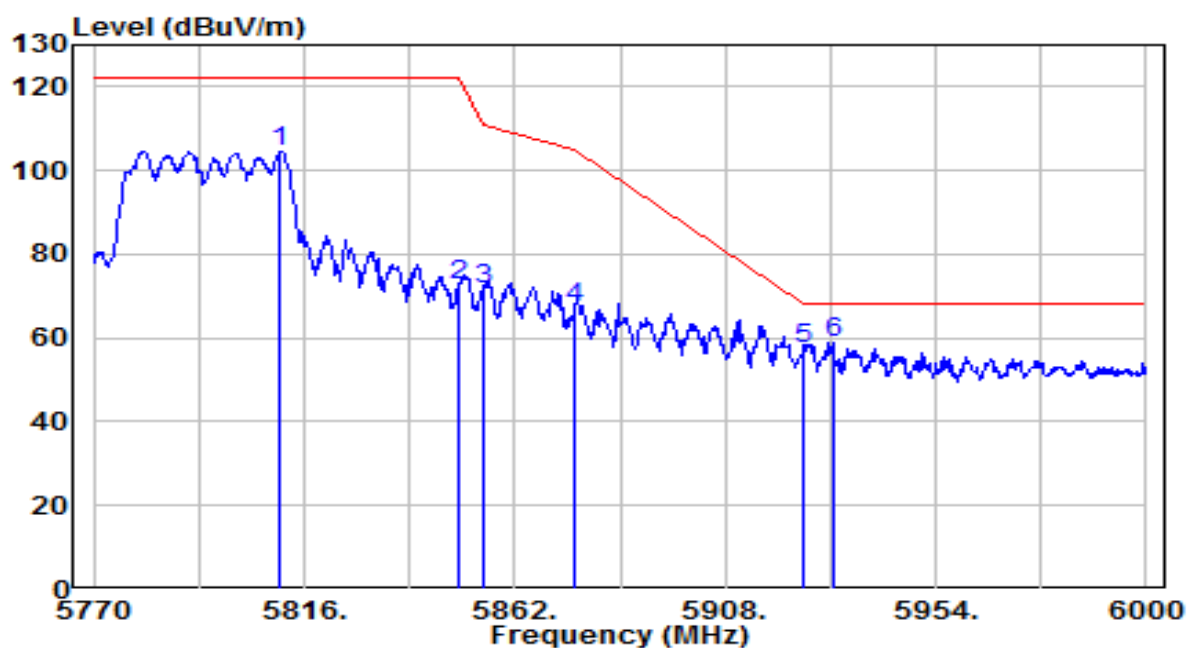


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5792.080	107.34	5.88	113.22	N/A	N/A	245	155	Peak
2	5850.000	69.36	6.08	75.44	-46.76	122.20	245	155	Peak
3	5855.000	67.96	6.10	74.06	-36.74	110.80	245	155	Peak
4	5875.000	62.53	6.17	68.70	-36.50	105.20	245	155	Peak
5	5925.000	53.84	6.34	60.18	-8.02	68.20	245	155	Peak
6	* 5933.070	60.02	6.37	66.38	-1.82	68.20	245	155	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_Band4_CH 159_ANT 0+1	Test Voltage	AC 120V/60Hz

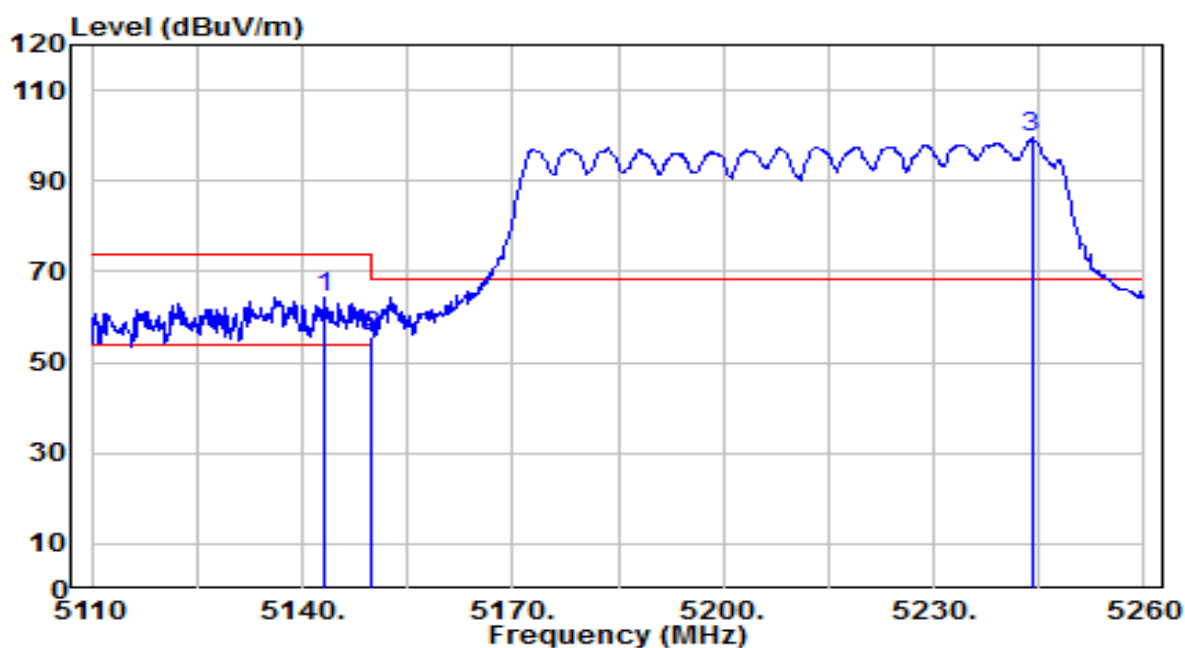


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5810.710	98.76	5.94	104.70	N/A	N/A	165	220	Peak
2	5850.000	66.30	6.08	72.37	-49.83	122.20	165	220	Peak
3	5855.000	65.37	6.10	71.46	-39.34	110.80	165	220	Peak
4	5875.000	60.98	6.17	67.15	-38.05	105.20	165	220	Peak
5	5925.000	51.25	6.34	57.59	-10.61	68.20	165	220	Peak
6	* 5931.460	52.65	6.36	59.01	-9.19	68.20	165	220	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_ANT 0+1	Test Voltage	AC 120V/60Hz

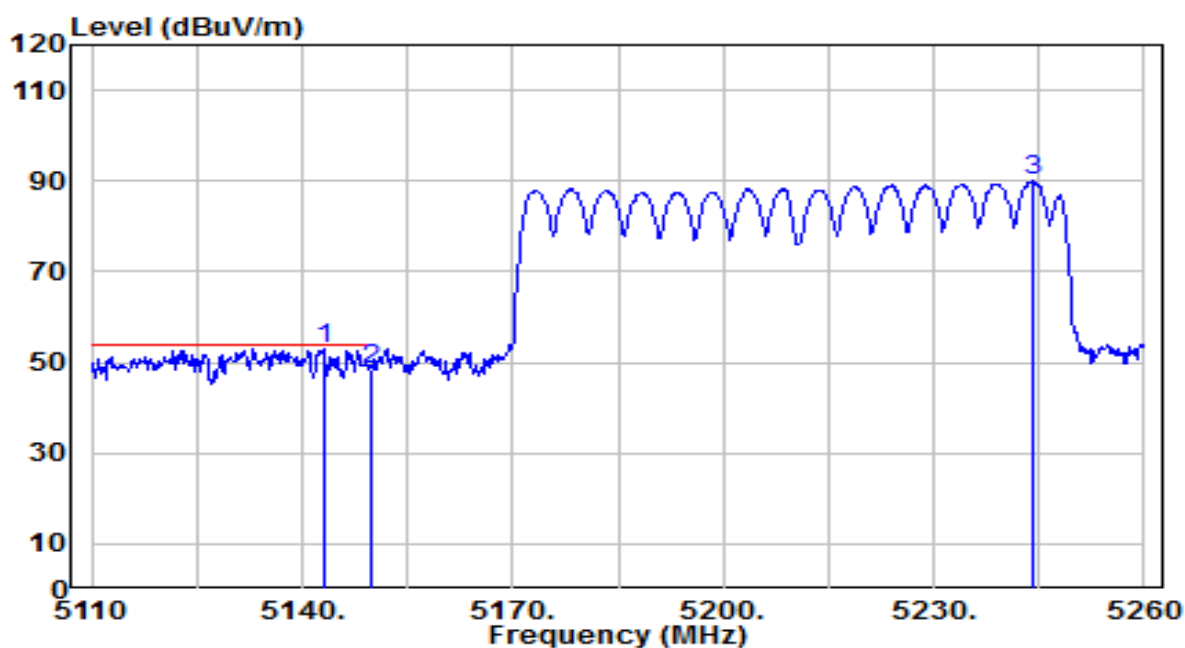


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5143.150	59.98	4.45	64.44	-9.56	74.00	240	160	Peak
2	5150.000	51.45	4.46	55.92	-18.08	74.00	240	160	Peak
3	* 5243.950	95.20	4.57	99.77	N/A	N/A	240	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_ANT 0+1	Test Voltage	AC 120V/60Hz

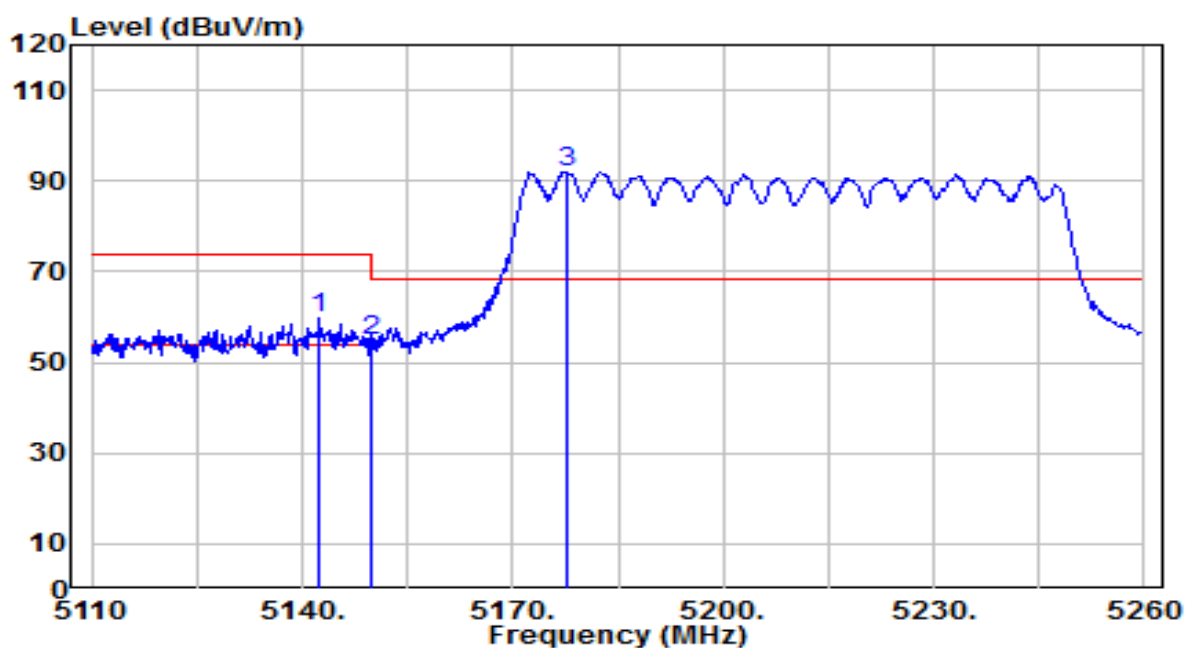


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5143.150	48.39	4.45	52.84	-1.16	54.00	240	160	Average
2		5150.000	43.98	4.46	48.44	-5.56	54.00	240	160	Average
3		5244.250	85.52	4.57	90.09	N/A	N/A	240	160	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-15
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_ANT 0+1	Test Voltage	AC 120V/60Hz

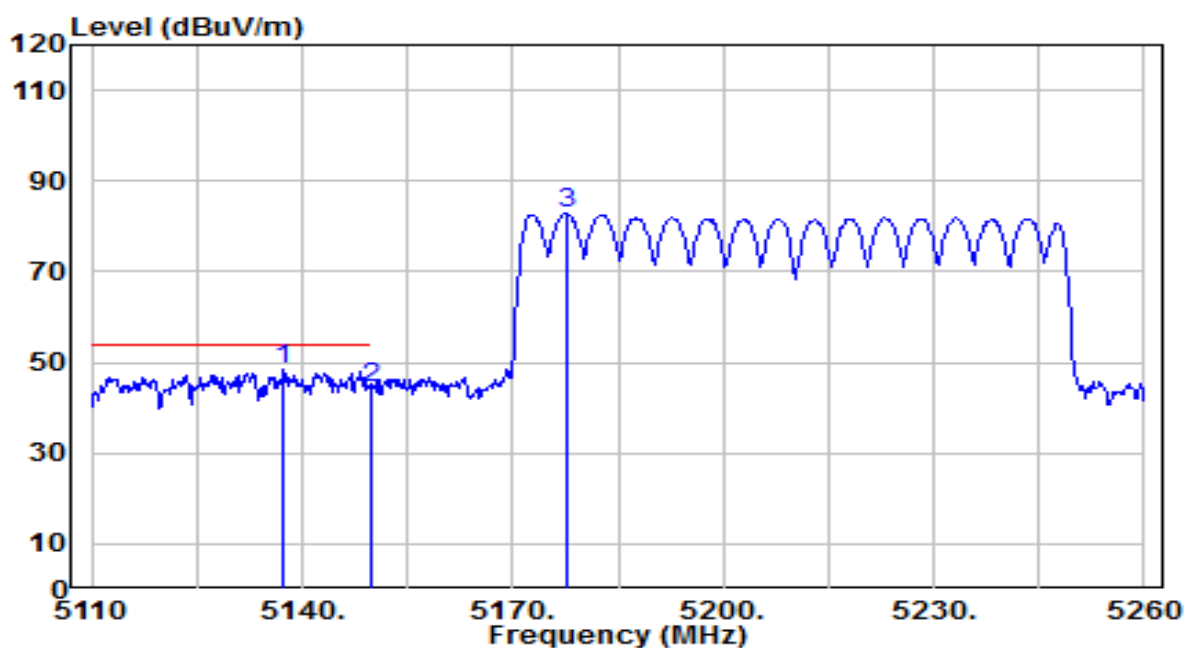


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5142.550	55.43	4.45	59.89	-14.11	74.00	230	160	Peak
2	5150.000	50.38	4.46	54.84	-19.16	74.00	230	160	Peak
3	* 5177.650	87.65	4.49	92.14	N/A	N/A	230	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-15
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_ANT 0+1	Test Voltage	AC 120V/60Hz

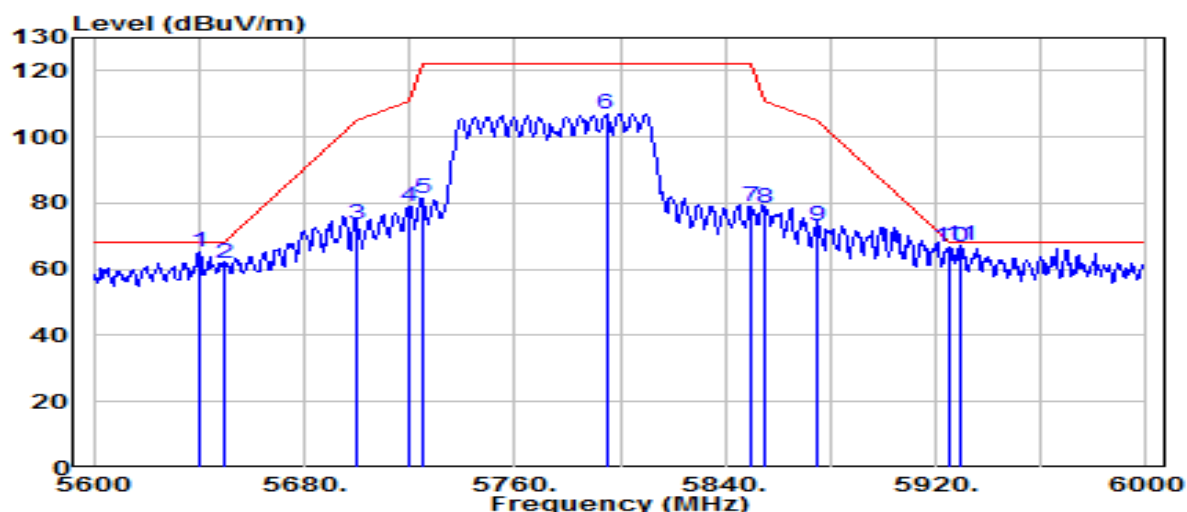


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5137.450	43.85	4.45	48.30	-5.70	54.00	230	160	Average
2		5150.000	40.07	4.46	44.53	-9.47	54.00	230	160	Average
3		5177.650	78.33	4.49	82.82	N/A	N/A	230	160	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band4_CH 155_ANT 0+1	Test Voltage	AC 120V/60Hz

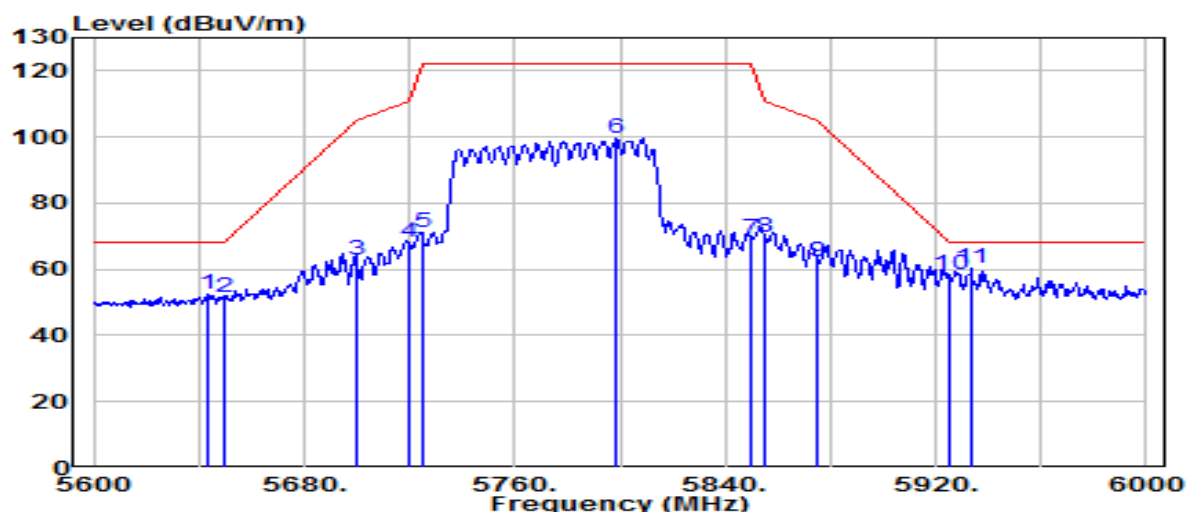


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	5640.000	60.09	5.35	65.44	-2.76	68.20	245	155	Peak
2	5650.000	56.48	5.38	61.86	-6.34	68.20	245	155	Peak
3	5700.000	67.85	5.56	73.40	-31.80	105.20	245	155	Peak
4	5720.000	73.34	5.63	78.97	-31.83	110.80	245	155	Peak
5	5725.000	75.71	5.64	81.35	-40.85	122.20	245	155	Peak
6	5794.800	101.14	5.89	107.03	N/A	N/A	245	155	Peak
7	5850.000	72.91	6.08	78.99	-43.21	122.20	245	155	Peak
8	5855.000	72.22	6.10	78.32	-32.48	110.80	245	155	Peak
9	5875.000	67.05	6.17	73.21	-31.99	105.20	245	155	Peak
10	5925.000	60.36	6.34	66.70	-1.50	68.20	245	155	Peak
11	* 5929.200	60.65	6.35	67.01	-1.19	68.20	245	155	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) + 10dB Attenuation.
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	Intercom	Date of Test	2023-12-14
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ac-80MHz_TX_Band4_CH 155_ANT 0+1	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	5643.200	47.01	5.36	52.37	-15.83	68.20	165	220	Peak
2	5650.000	46.02	5.38	51.41	-16.79	68.20	165	220	Peak
3	5700.000	57.30	5.56	62.86	-42.34	105.20	165	220	Peak
4	5720.000	62.54	5.63	68.17	-42.63	110.80	165	220	Peak
5	5725.000	65.33	5.64	70.97	-51.23	122.20	165	220	Peak
6	5798.400	93.65	5.90	99.55	N/A	N/A	165	220	Peak
7	5850.000	63.32	6.08	69.39	-52.81	122.20	165	220	Peak
8	5855.000	63.34	6.10	69.44	-41.36	110.80	165	220	Peak
9	5875.000	56.15	6.17	62.31	-42.89	105.20	165	220	Peak
10	5925.000	51.93	6.34	58.27	-9.93	68.20	165	220	Peak
11	* 5933.600	53.84	6.37	60.20	-8.00	68.20	165	220	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) + 10dB Attenuation.
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.

7.9. AC Conducted Emissions Measurement

7.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (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.

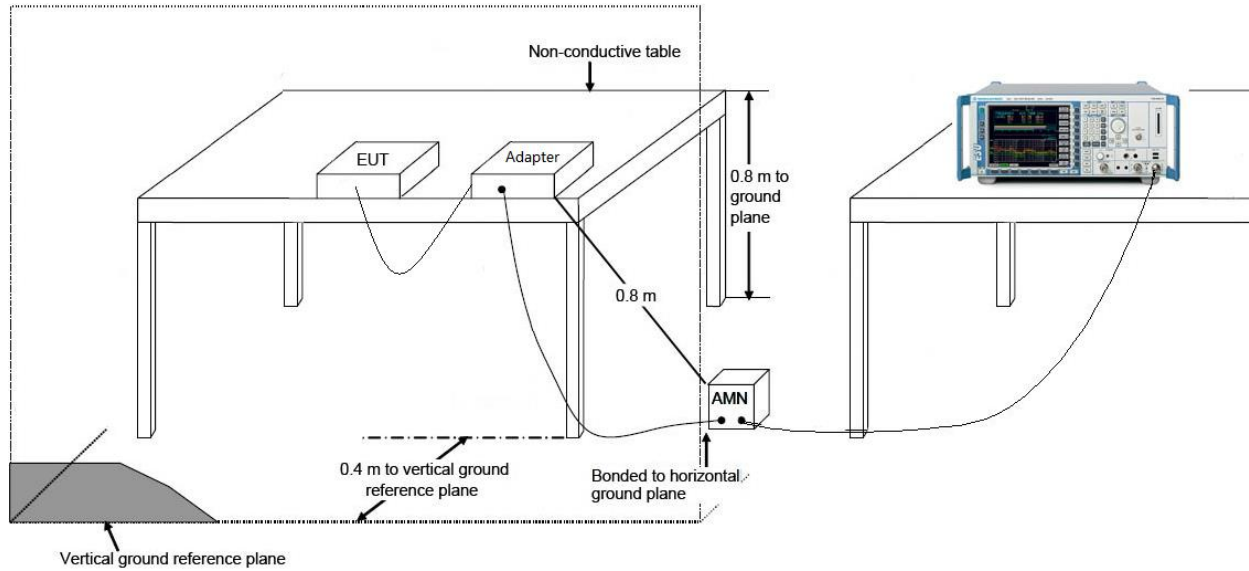
7.9.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

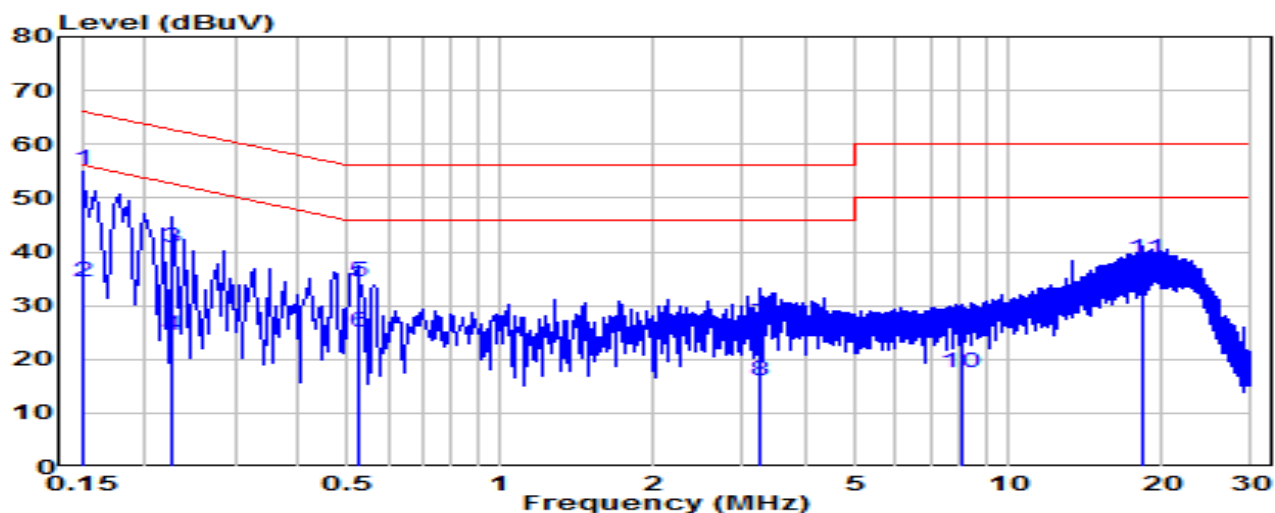
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.9.3. Test Setup



7.9.4. Test Result

EUT	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	22.2°C /56%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

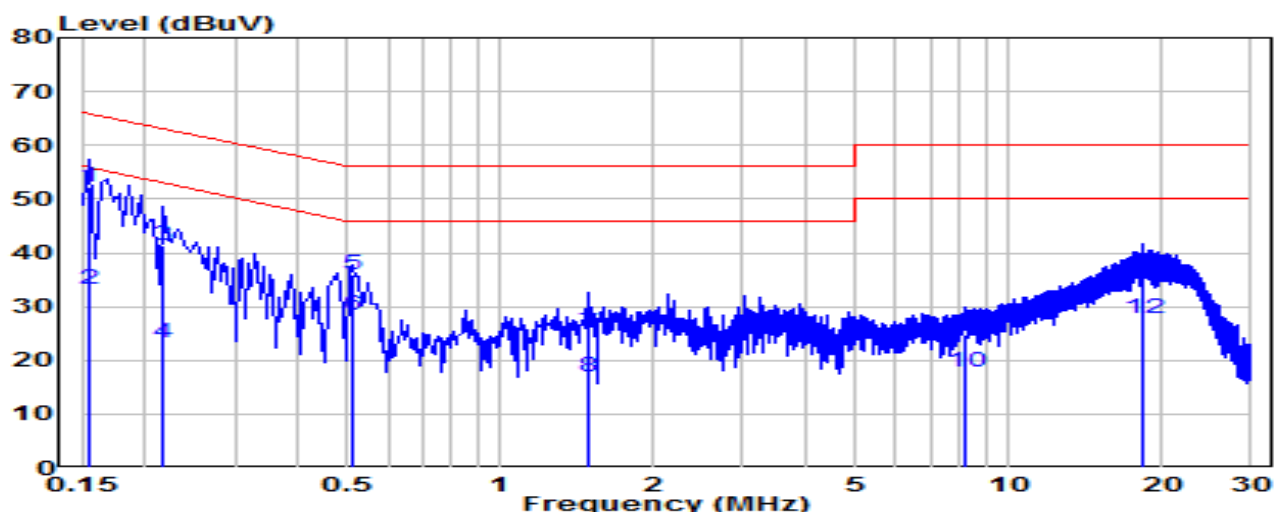


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.150	45.48	9.62	55.10	-10.90	66.00	QP
2	*	0.150	24.85	9.62	34.47	-21.53	56.00	Average
3		0.226	31.01	9.62	40.63	-21.95	62.58	QP
4		0.226	14.70	9.62	24.33	-28.25	52.58	Average
5		0.523	24.66	9.64	34.31	-21.69	56.00	QP
6		0.523	15.29	9.64	24.93	-21.07	46.00	Average
7		3.259	16.85	9.72	26.56	-29.44	56.00	QP
8		3.259	6.36	9.72	16.07	-29.93	46.00	Average
9		8.042	16.26	9.81	26.08	-33.92	60.00	QP
10		8.042	7.67	9.81	17.48	-32.52	50.00	Average
11		18.414	28.62	9.92	38.54	-21.46	60.00	QP
12		18.414	23.59	9.92	33.51	-16.49	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	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	22.2°C /56%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 120V/60Hz

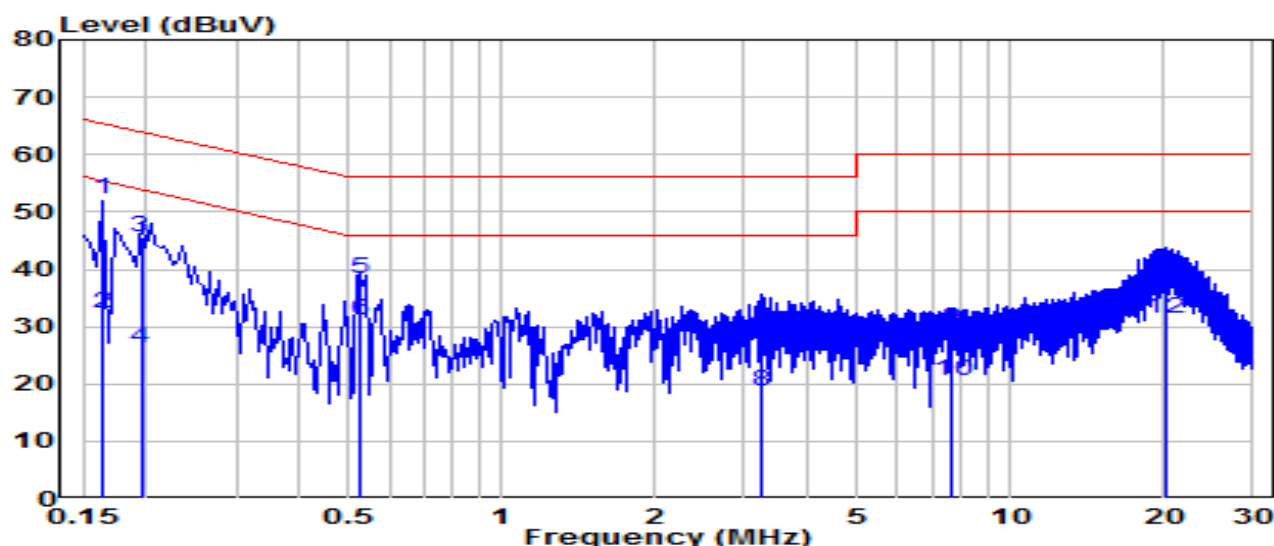


No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV)	Margin (dB)	Limit (dBUV)	Remark (QP/PK/AV)
1	*	0.154	42.65	9.62	52.27	-13.49	65.75	QP
2	*	0.154	23.59	9.62	33.21	-22.54	55.75	Average
3		0.217	31.65	9.62	41.27	-21.64	62.91	QP
4		0.217	13.52	9.62	23.15	-29.77	52.91	Average
5		0.510	26.24	9.64	35.89	-20.11	56.00	QP
6		0.510	18.59	9.64	28.24	-17.76	46.00	Average
7		1.482	15.43	9.68	25.11	-30.89	56.00	QP
8		1.482	7.29	9.68	16.97	-29.03	46.00	Average
9		8.240	14.96	9.83	24.79	-35.21	60.00	QP
10		8.240	7.99	9.83	17.82	-32.18	50.00	Average
11		18.414	25.42	9.98	35.40	-24.60	60.00	QP
12		18.414	17.74	9.98	27.72	-22.28	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	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	22.2°C /56%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1	Test Voltage	AC 240V/60Hz

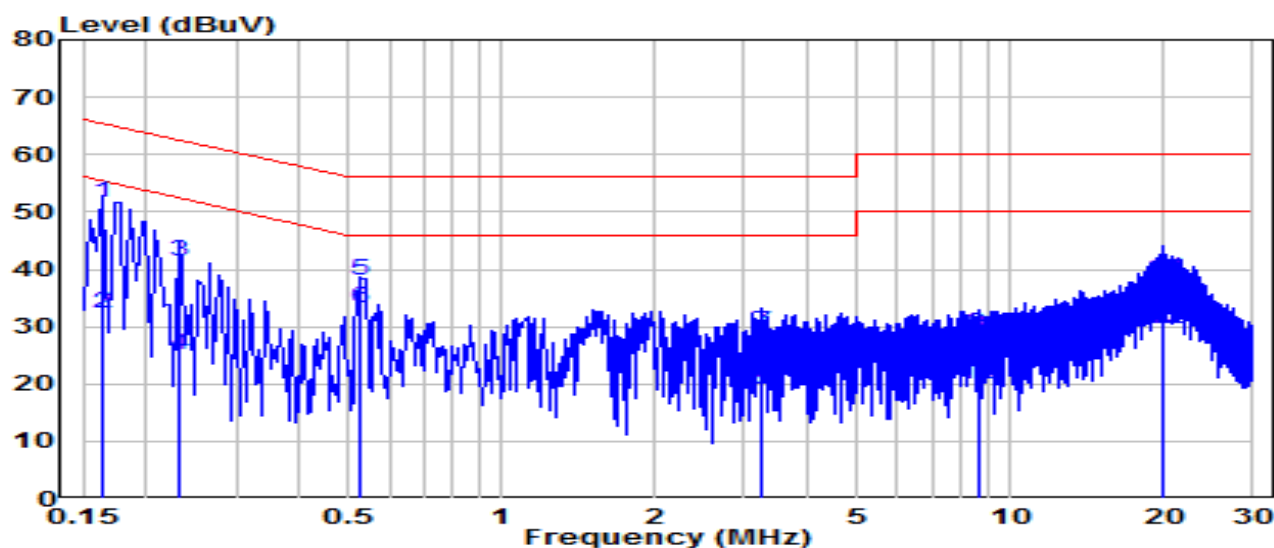


No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV)	Margin (dB)	Limit (dBUV)	Remark (QP/PK/AV)
1	*	0.163	42.48	9.62	52.11	-13.18	65.28	QP
2	*	0.163	22.64	9.62	32.26	-23.03	55.28	Average
3		0.195	36.11	9.62	45.74	-18.09	63.82	QP
4		0.195	16.72	9.62	26.34	-27.48	53.82	Average
5		0.523	28.69	9.64	38.33	-17.67	56.00	QP
6		0.523	21.56	9.64	31.20	-14.80	46.00	Average
7		3.237	18.24	9.71	27.96	-28.04	56.00	QP
8		3.237	8.88	9.71	18.60	-27.40	46.00	Average
9		7.655	19.91	9.81	29.72	-30.28	60.00	QP
10		7.655	10.66	9.81	20.47	-29.53	50.00	Average
11		20.114	29.21	9.93	39.14	-20.86	60.00	QP
12		20.114	21.32	9.93	31.25	-18.75	50.00	Average

Note:

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

EUT	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	22.2°C /56%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1	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	42.04	9.62	51.66	-13.63	65.28	QP
2		0.163	22.54	9.62	32.16	-23.12	55.28	Average
3		0.231	31.62	9.62	41.24	-21.17	62.41	QP
4		0.231	15.30	9.62	24.93	-27.49	52.41	Average
5	*	0.528	28.45	9.64	38.10	-17.90	56.00	QP
6	*	0.528	23.44	9.64	33.08	-12.92	46.00	Average
7		3.250	19.20	9.72	28.91	-27.09	56.00	QP
8		3.250	9.24	9.72	18.95	-27.05	46.00	Average
9		8.623	18.95	9.84	28.79	-31.21	60.00	QP
10		8.623	9.95	9.84	19.79	-30.21	50.00	Average
11		20.047	28.26	10.00	38.26	-21.74	60.00	QP
12		20.047	19.72	10.00	29.72	-20.28	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 **Intercom**, is in compliance with Part 15E & RSS-247 of the FCC & IC Rules.

Appendix A : Test Photograph

Refer to “2312TWN801-UT” file.

Appendix B : External Photograph

Refer to “2312TWN801-UE” file.

Appendix C : Internal Photograph

Refer to “2312TWN801-UI” file.

_____ The End _____