



MEASUREMENT REPORT

FCC ID : 2AXRO-VS80

APPLICANT : FLIR Commercial Systems Inc., Taiwan Branch

Application Type : Certification

Product : VS80 VIDEOSCOPE

Model No. : VS80

Brand Name : FLIR

FCC Classification : (DTS) Digital Transmission System

FCC Rule Part(s) : Part 15.247

Test Procedure(s) : ANSI C63.10-2013

Received Date : October 30, 2020

Test Date : November 03~10, 2021

Tested By : *Peter Syu*
(Peter Syu)

Reviewed By : *Paddy Chen*
(Paddy Chen)

Approved By : *Chenz Ker*
(Chenz Ker)



The test results only relate to the samples tested.

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
2010TW6501-U2	1.0	Original Report	2022-03-15	

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§2.1033 General Information

Applicant	FLIR Commercial Systems Inc., Taiwan Branch
Applicant Address	10F., No. 57, Zhouzi St., Neihu Dist., Taipei City 11493, Taiwan
Manufacturer	Medical Intubation Technology Corp.
Manufacturer Address	2F, No.75, Wenhua 1st Rd., Guishan District, Taoyuan 33382, Taiwan
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.247
Test Device Serial No.	#1 ☐ Production ☒ Pre-Production ☐ Engineering

Test Facility / Accreditations

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

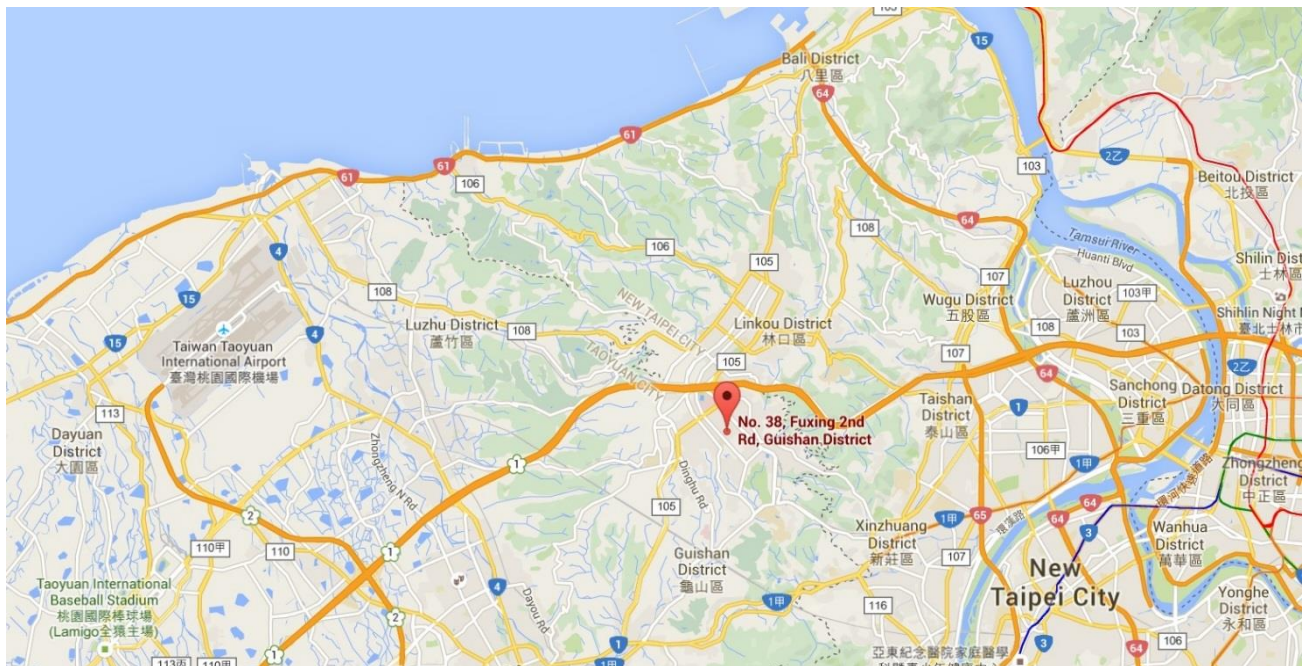
1. INTRODUCTION

1.1. Scope

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

1.2. MRT Test Location

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



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	VS80 VIDEOSCOPE
Model No.	VS80
Brand Name	FLIR
Wi-Fi Specification	802.11b/g/n (1TX / 1RX)
Frequency Range	<u>2.4GHz:</u> For 802.11b/g/n-HT20: 2412 ~ 2462 MHz
2.4GHz Maximum Output Power	802.11b: 18.39dBm 802.11g: 20.20dBm 802.11n-HT20: 19.49dBm
Type of Modulation	802.11b: DSSS, DBPSK, DQPSK, CCK 802.11g/n-20M: OFDM, BPSK, QPSK, 16QAM, 64QAM
Power Adapter	Brand Name: BILLION Model: BA018-050300HXX Input: AC 100-240V~0.5A, 50/60Hz Output: DC 5.0V-3.0A

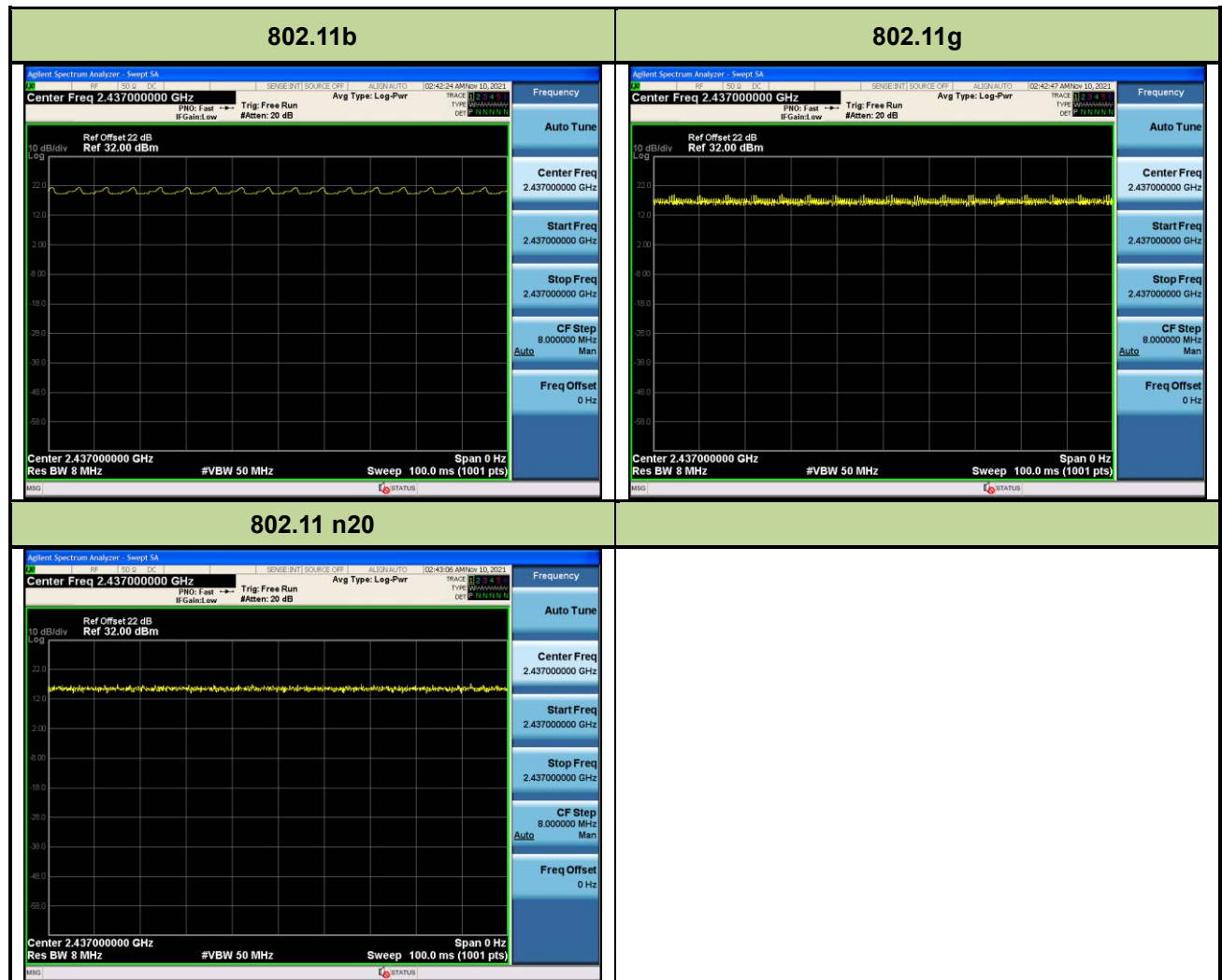
2.2. Working Frequencies for this Report

802.11b/g/n-20M

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

Duty Cycle

Test Mode	Duty Cycle
802.11b	100%
802.11g	100%
802.11 n-HT20	100%



2.3. Test Mode

Test Mode	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n-20M

Note:

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

2.4. Test Software

The test utility software used during testing was “Putty”.

2.5. Test Configuration

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

2.6. EMI Suppression Device(s)/Modifications

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

2.7. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

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

3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v05r02 were used in the measurement of the 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, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

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

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

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

Line conducted emissions test results are shown in Section 7.8.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

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

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

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

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

- The antenna of the **VS80 VIDEOSCOPE**, is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	LB-LINK	WNZ7915	PCB	2.0dBi

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2022/3/23
Cable	Rosnol	N1C50-RG400- B1C50-500CM	MRTTWE00013	1 year	2022/6/20
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2022/3/24

Radiated Emissions – AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2022/10/4
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2022/3/24
Active Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2022/5/6
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2022/8/31
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2022/4/28
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2022/8/31
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2022/4/21
Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2022/6/28

Conducted Test Equipment – SR5

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

Test Software

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

6. MEASUREMENT UNCERTAINTY

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

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

7. TEST RESULT

7.1. Summary

Product Name: VS80 VIDEOSCOPE
FCC Classification: (DTS) Digital Transmission System
Data Rate(s) Tested: 1Mbps ~ 11Mbps (b); 6Mbps ~ 54Mbps (g);
6.5/7.2Mbps ~ 65/72.2Mbps (n-20M).

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

Notes:

- 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.
- All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 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.
- All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

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

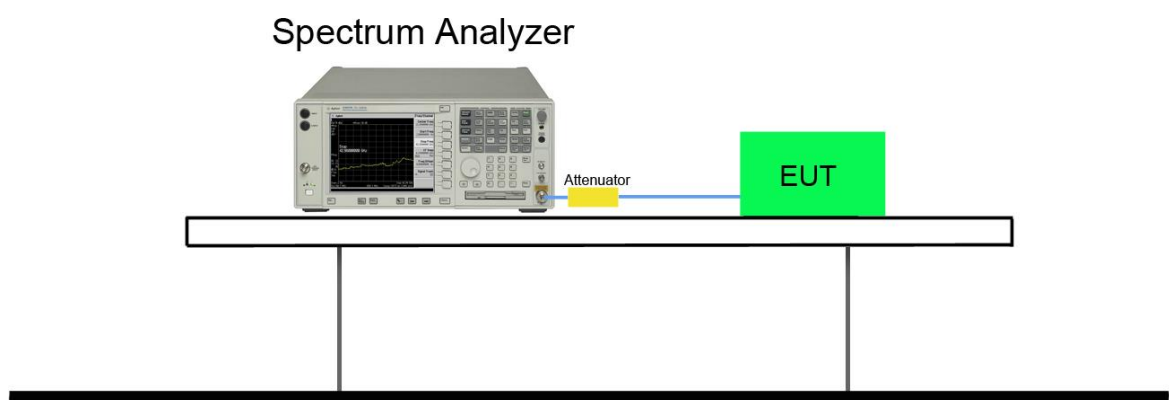
7.2.2. Test Procedure used

KDB 558074 D01v05r02- Section 8.2 Option 2

7.2.3. Test Setting

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

7.2.4. Test Setup



7.2.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	2412	10.100	15.005	≥ 0.5	Pass
802.11b	06	2437	10.060	14.827	≥ 0.5	Pass
802.11b	11	2462	10.060	14.737	≥ 0.5	Pass
802.11g	01	2412	16.560	16.466	≥ 0.5	Pass
802.11g	06	2437	16.590	16.510	≥ 0.5	Pass
802.11g	11	2462	16.600	16.499	≥ 0.5	Pass
802.11n-20M	01	2412	17.790	17.694	≥ 0.5	Pass
802.11n-20M	06	2437	17.770	17.693	≥ 0.5	Pass
802.11n-20M	11	2462	17.770	17.682	≥ 0.5	Pass

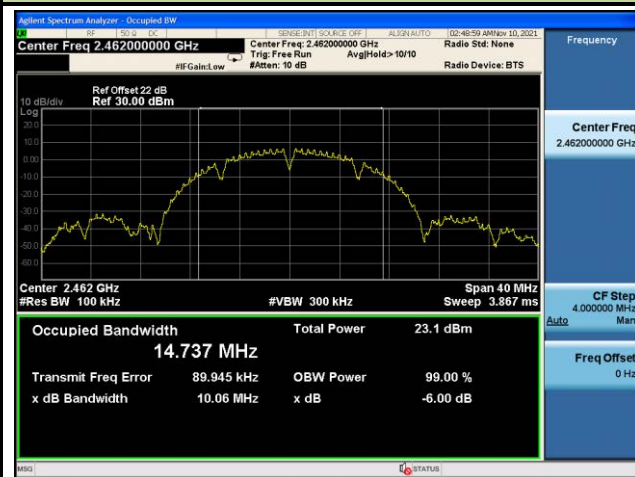
802.11 b CH01 (2412MHz)



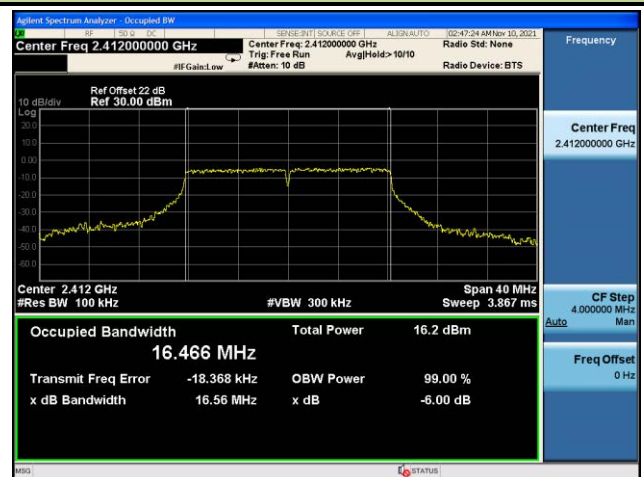
802.11 b CH06 (2437MHz)



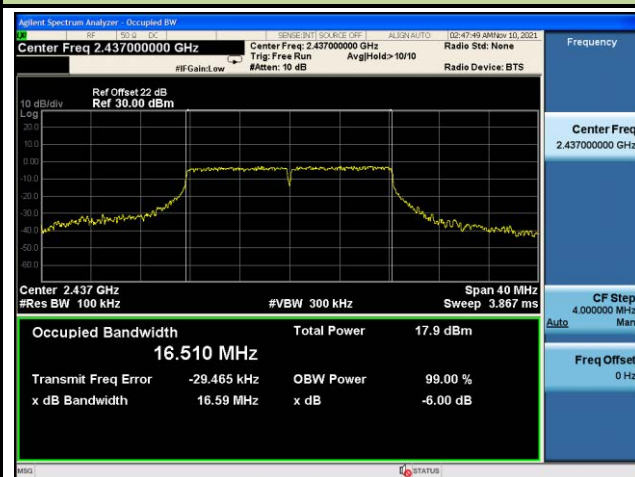
802.11 b CH11 (2462MHz)



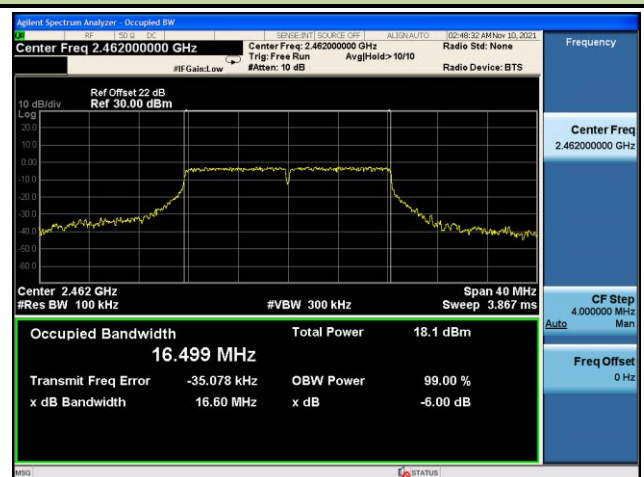
802.11 g CH01 (2412MHz)

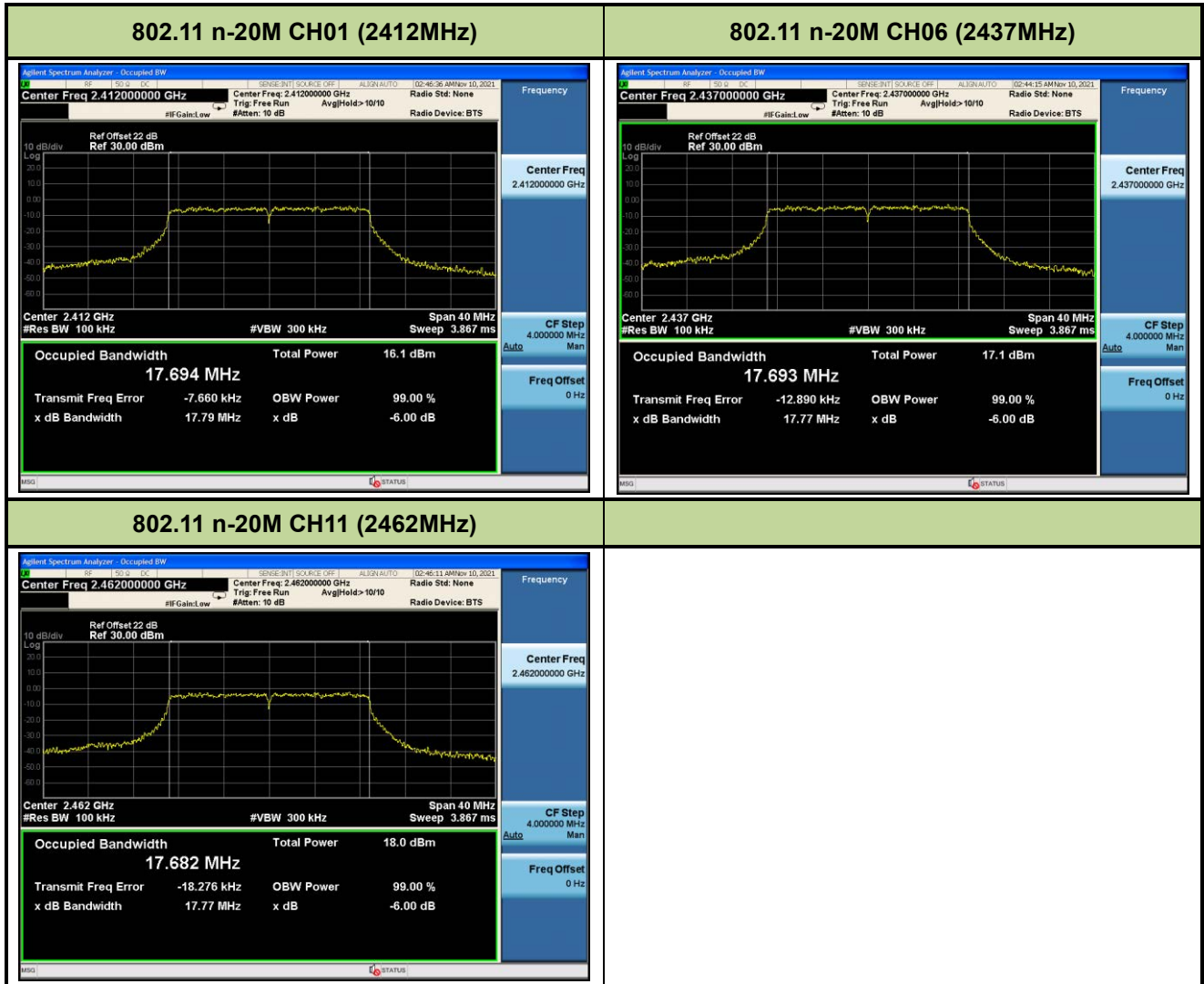


802.11 g CH06 (2437MHz)



802.11 g CH11 (2462MHz)





7.3. Output Power Measurement

7.3.1. Test Limit

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

7.3.2. Test Procedure Used

KDB 558074 D01v05r02 - Section 9.1.2 & 9.2.3.2

7.3.3. Test Setting

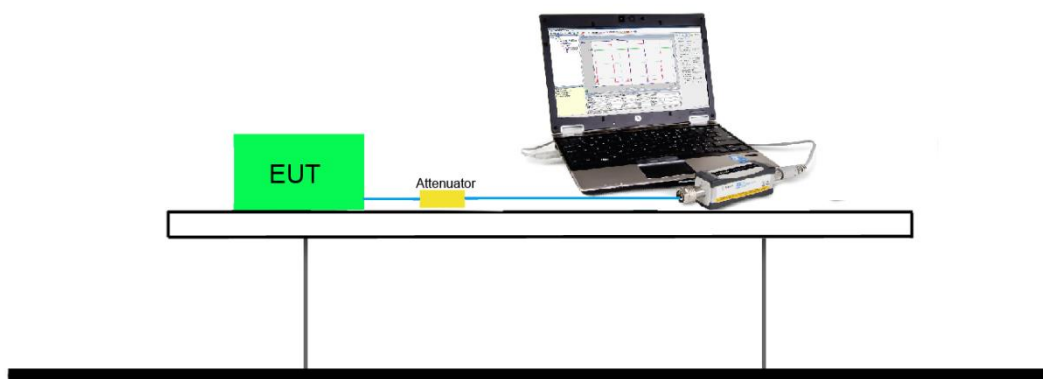
Peak Power Measurement

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

Average Power Measurement

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

7.3.4. Test Setup



7.3.5. Test Result of Output Power

Model	Rate	Ch.	Freq. (MHz)	Power (dBm)	Power Limit (dBm)
802.11b	1M	1	2412	17.22	30.00
	1M	6	2437	18.39	30.00
	1M	11	2462	18.15	30.00
802.11g	6M	1	2412	17.94	30.00
	6M	6	2437	19.54	30.00
	6M	11	2462	20.20	30.00
802.11n-HT20	MCS0	1	2412	17.51	30.00
	MCS0	6	2437	19.09	30.00
	MCS0	11	2462	19.49	30.00

Note: Output power = Reading value on power meter + duty cycle factor + cable loss °

7.4. Power Spectral Density Measurement

7.4.1. Test Limit

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

7.4.2. Test Procedure Used

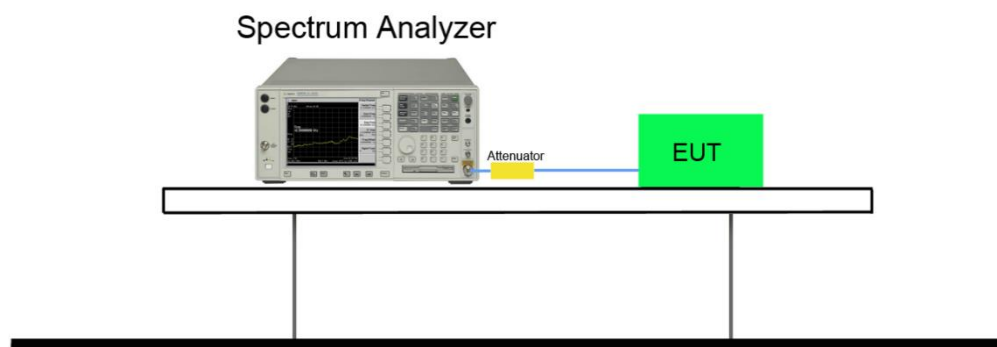
KDB 558074 D01v05r02 - Section 10.2 Method PKPSD

7.4.3. Test Setting

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

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: 3 kHz.
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

7.4.4. Test Setup



7.4.5. Test Result

Test Mode	Channel No.	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
11b	1	2412	-15.003	≤ 8	Pass
11b	6	2437	-13.646	≤ 8	Pass
11b	11	2462	-14.061	≤ 8	Pass
11g	1	2412	-18.763	≤ 8	Pass
11g	6	2437	-17.039	≤ 8	Pass
11g	11	2462	-16.742	≤ 8	Pass
11n-20M	1	2412	-18.065	≤ 8	Pass
11n-20M	6	2437	-17.186	≤ 8	Pass
11n-20M	11	2462	-16.364	≤ 8	Pass

802.11 b CH01 (2412MHz)



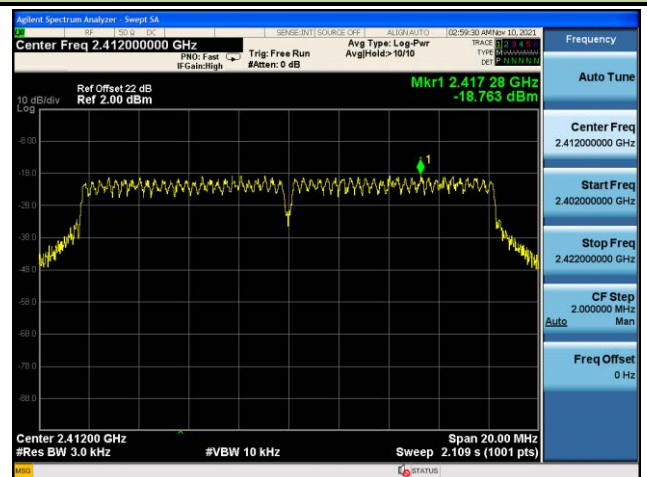
802.11 b CH06 (2437MHz)



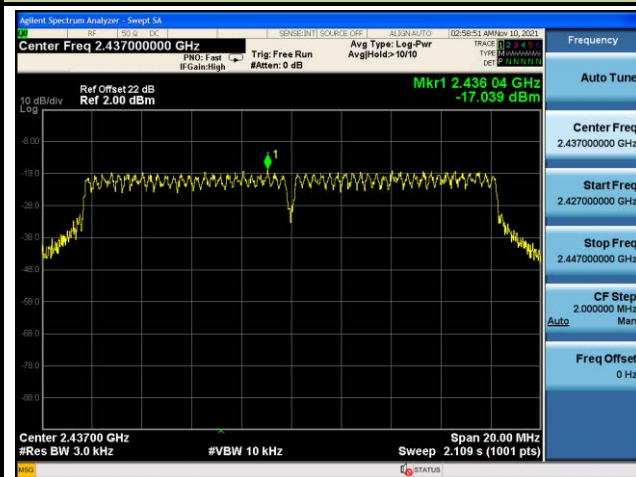
802.11 b CH11 (2462MHz)



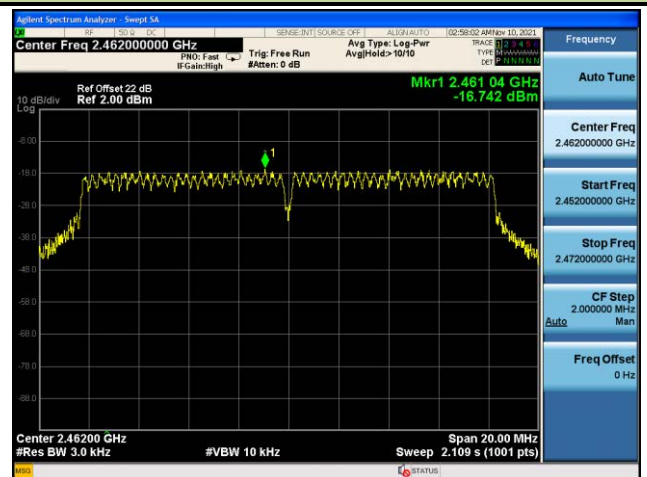
802.11 g CH01 (2412MHz)

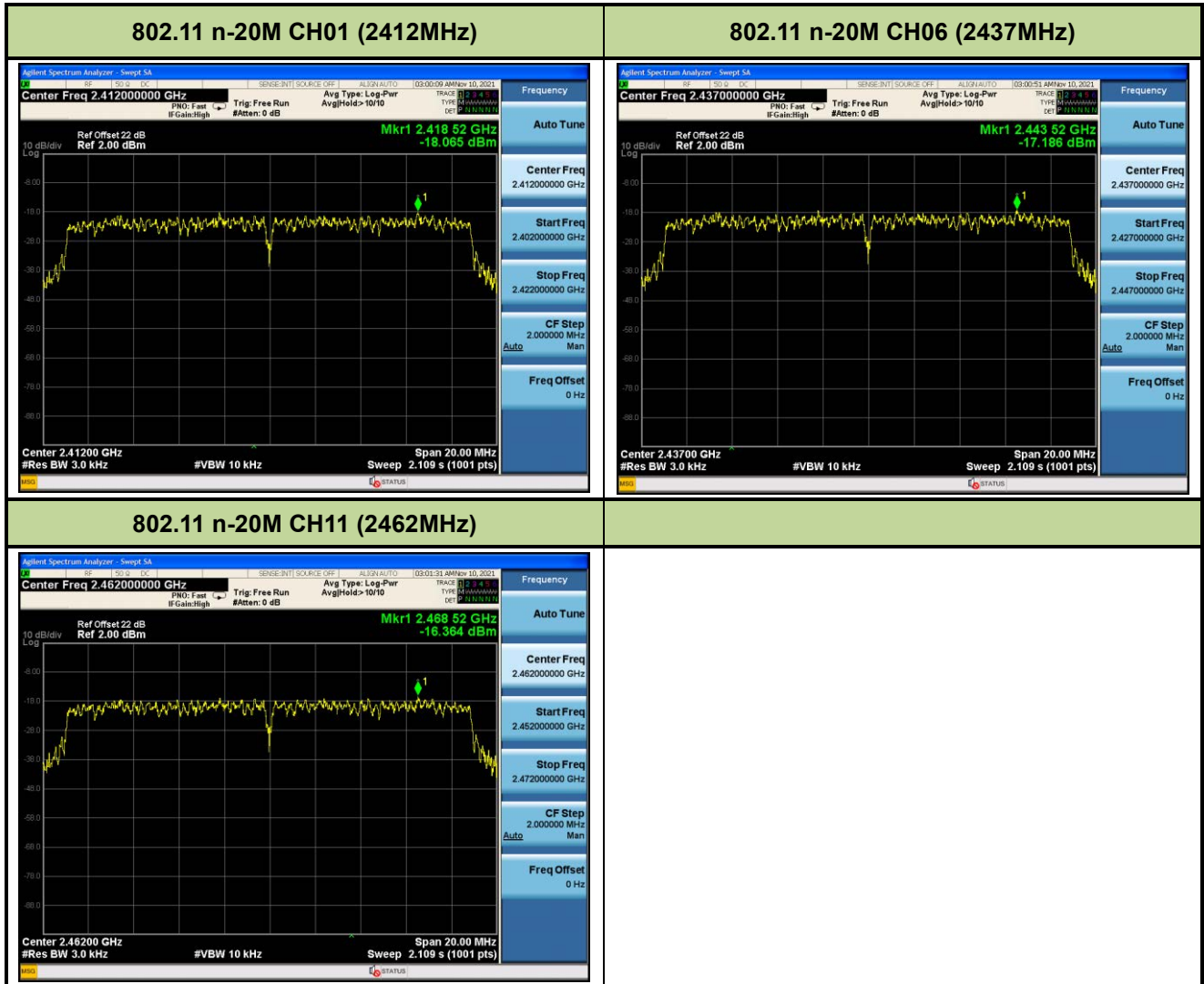


802.11 g CH06 (2437MHz)



802.11 g CH11 (2462MHz)





7.5. Out-of-Band Spurious Emissions Emissions Measurement

7.5.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

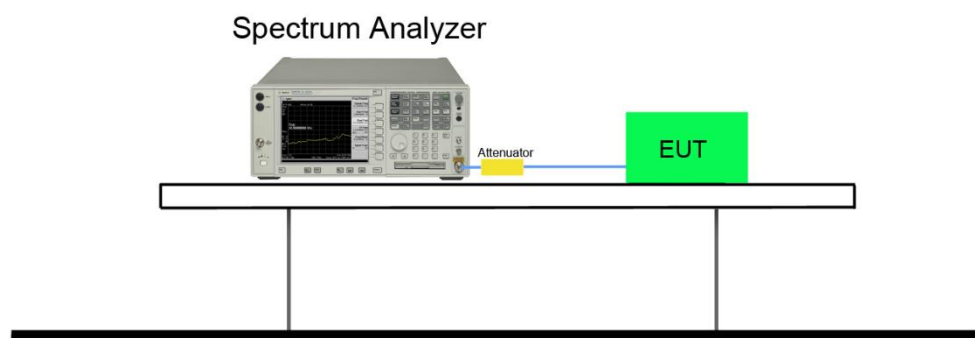
7.5.2. Test Procedure Used

KDB 558074 D01v05r02- Section 11.1 & 11.2

7.5.3. Test Settling

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW $\geq 3 \times$ RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

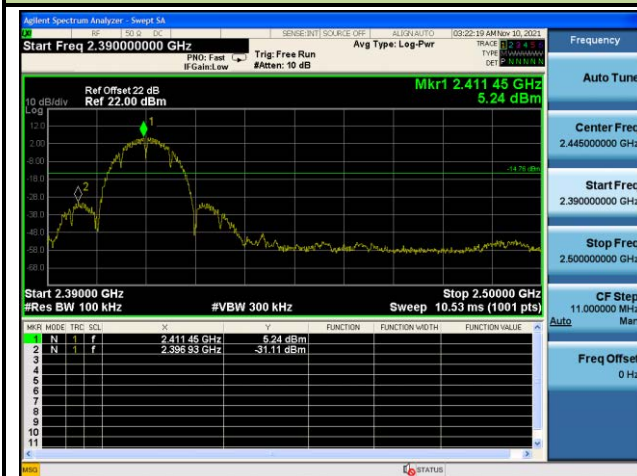
7.5.4. Test Setup



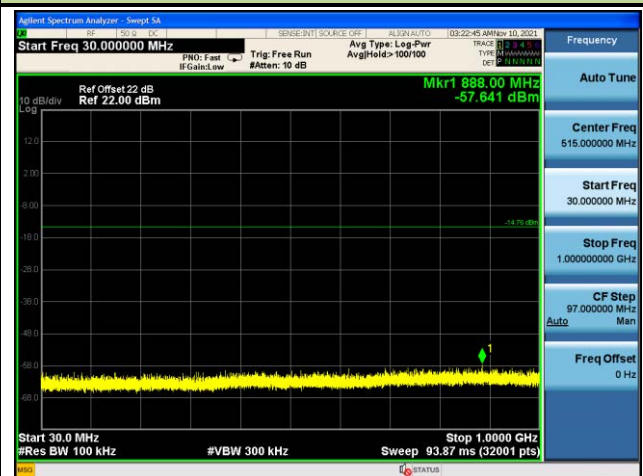
7.5.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	Limit	Result
802.11b	01	2412	20dBc	Pass
802.11b	06	2437	20dBc	Pass
802.11b	11	2462	20dBc	Pass
802.11g	01	2412	20dBc	Pass
802.11g	06	2437	20dBc	Pass
802.11g	11	2462	20dBc	Pass
802.11n-20M	01	2412	20dBc	Pass
802.11n-20M	06	2437	20dBc	Pass
802.11n-20M	11	2462	20dBc	Pass

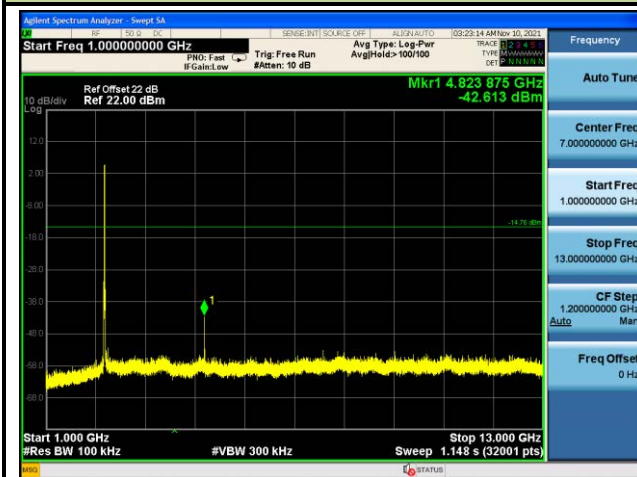
802.11b CH01 (2412MHz)



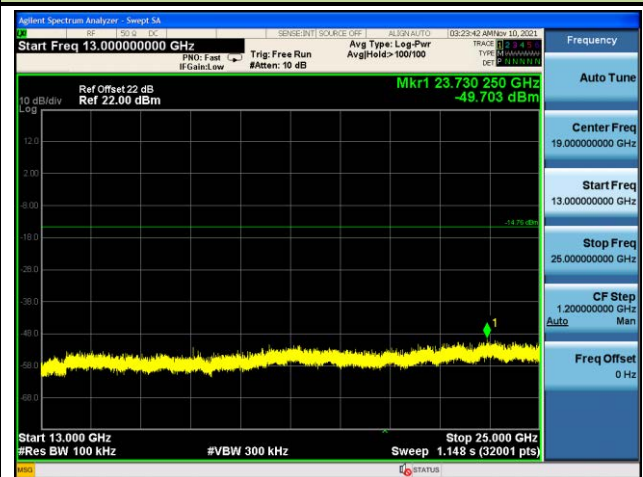
802.11b CH01 (2412MHz)



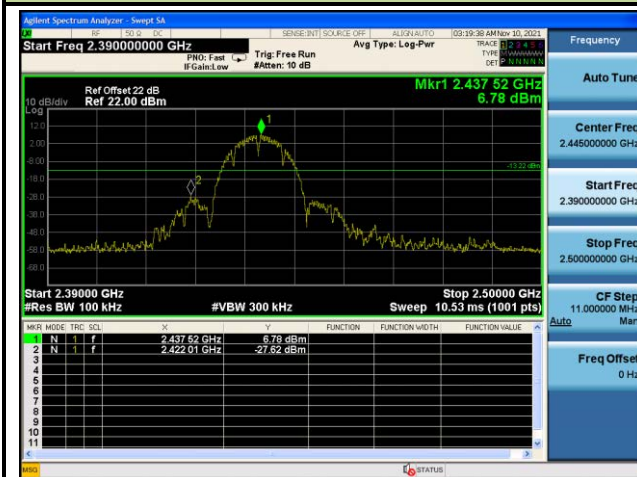
802.11b CH01 (2412MHz)



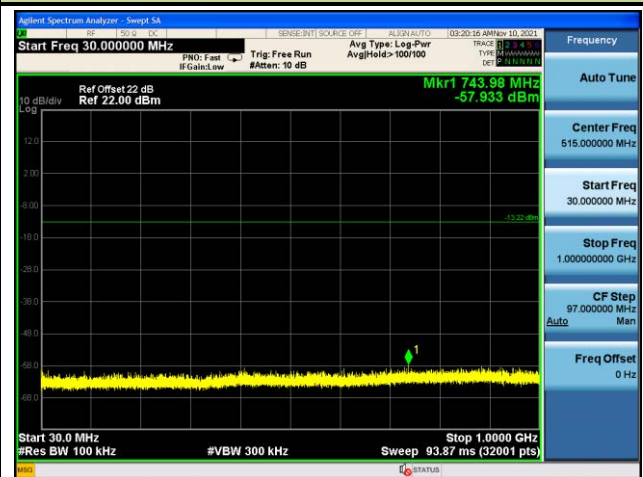
802.11b CH01 (2412MHz)

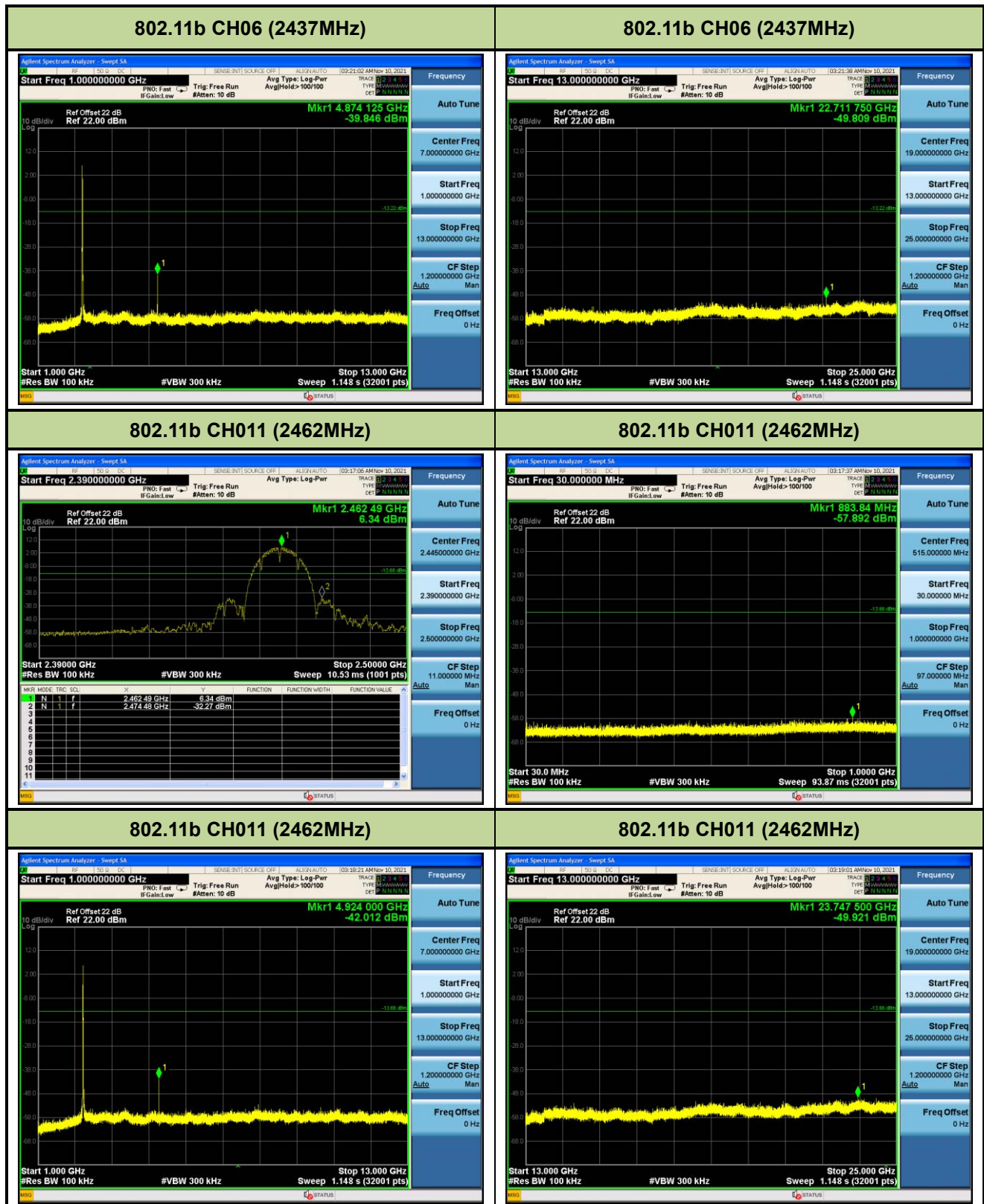


802.11b CH06 (2437MHz)



802.11b CH06 (2437MHz)

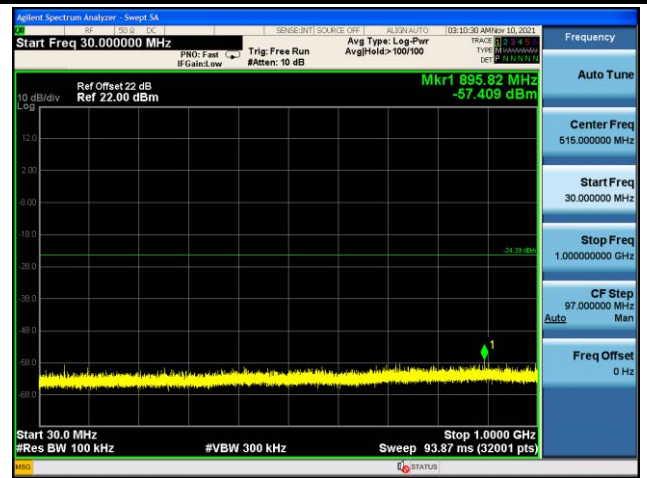




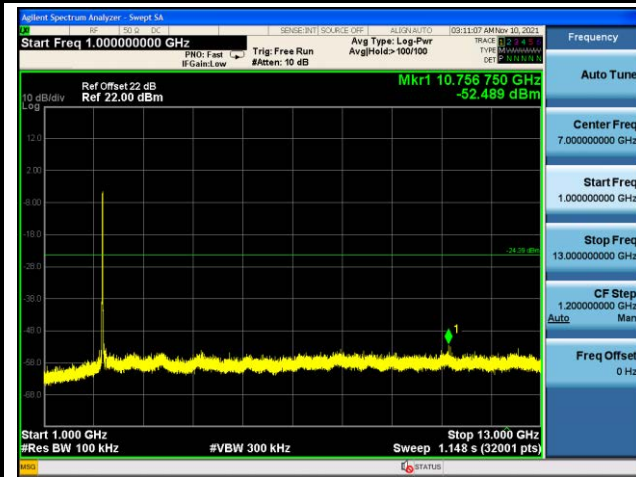
802.11g CH01 (2412MHz)



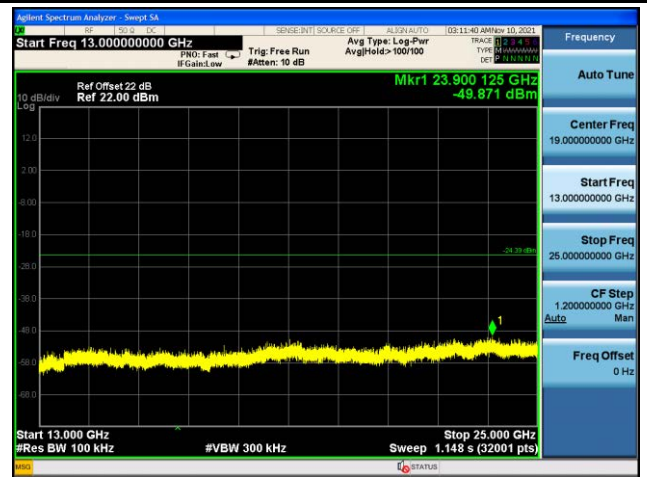
802.11g CH01 (2412MHz)



802.11g CH01 (2412MHz)



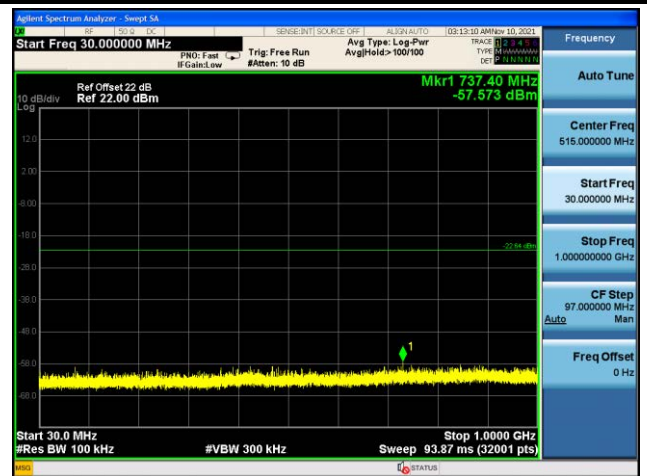
802.11g CH01 (2412MHz)



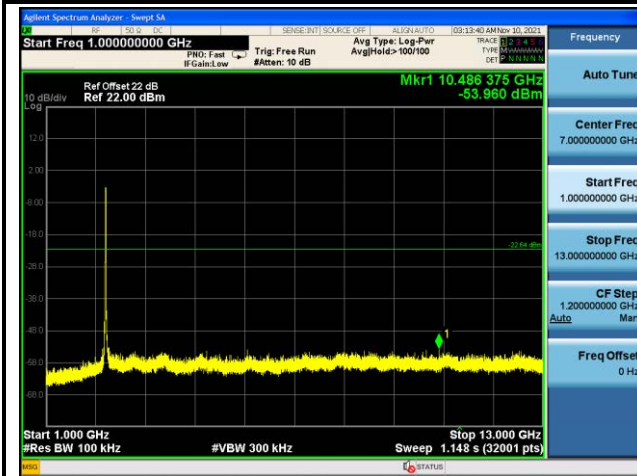
802.11g CH06 (2437MHz)



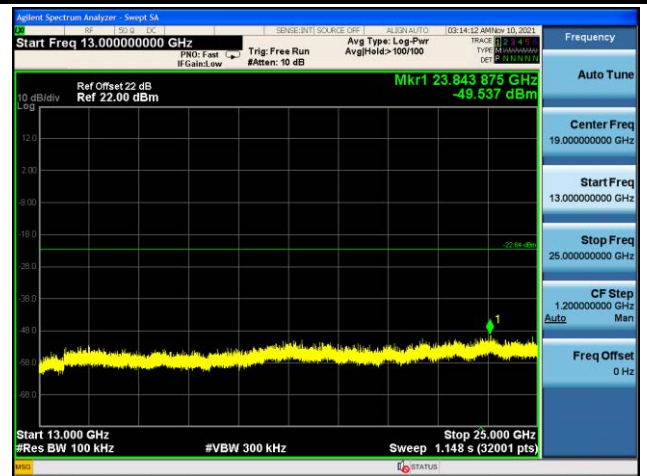
802.11g CH06 (2437MHz)



802.11g CH06 (2437MHz)



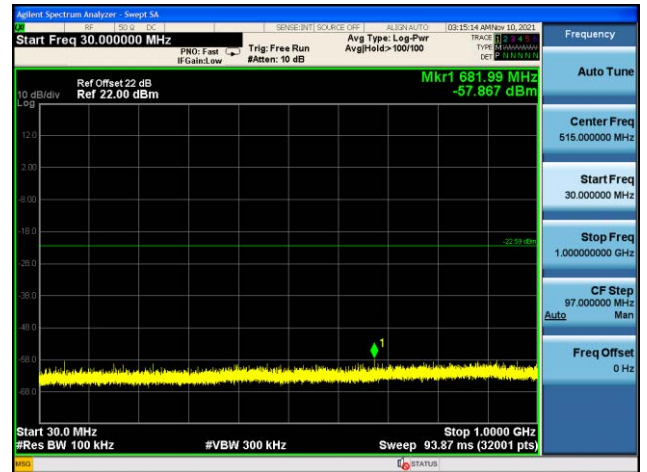
802.11g CH06 (2437MHz)



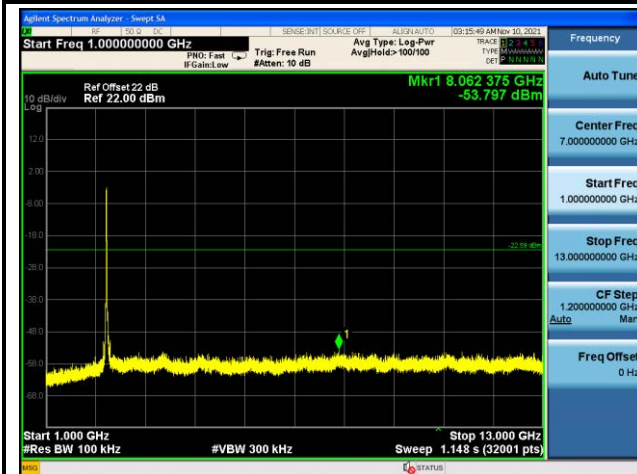
802.11g CH011 (2462MHz)



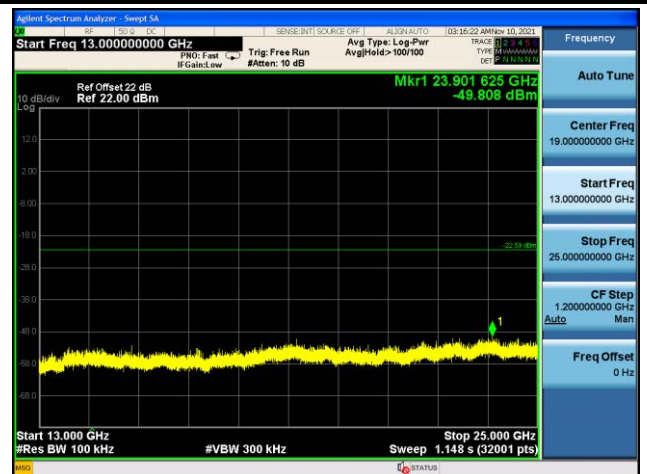
802.11g CH011 (2462MHz)



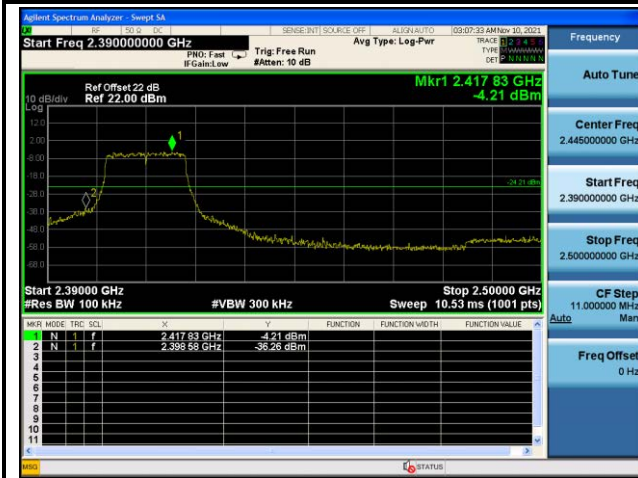
802.11g CH011 (2462MHz)



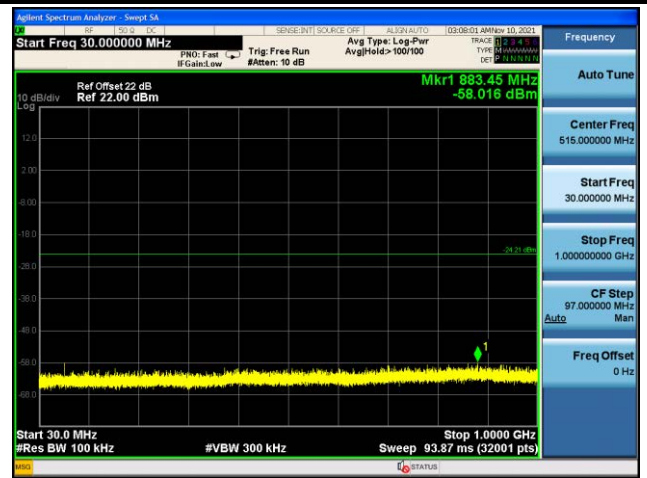
802.11g CH011 (2462MHz)



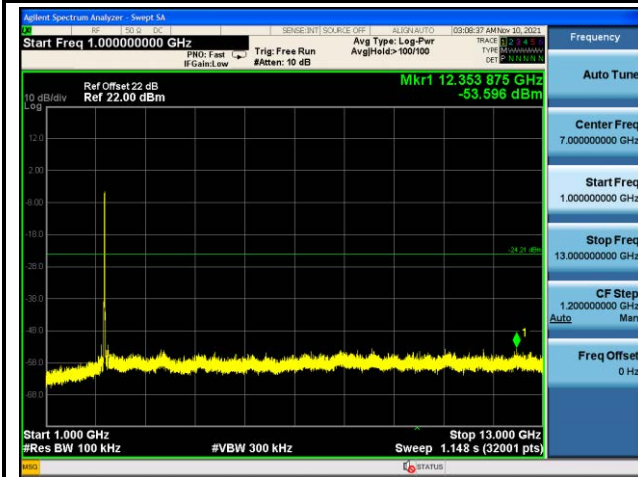
802.11n-20M CH01 (2412MHz)



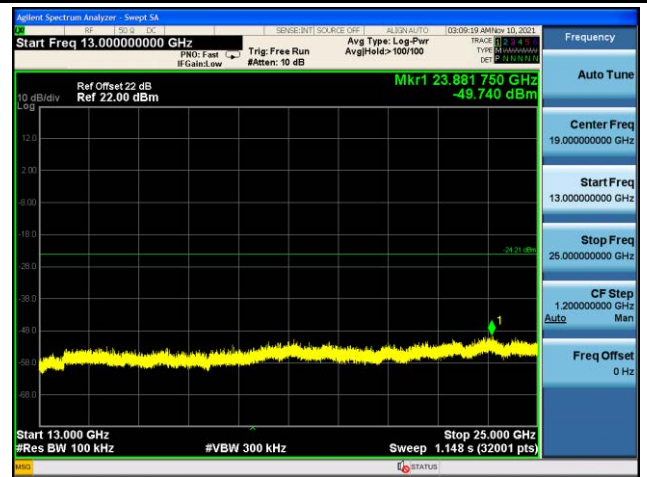
802.11n-20M CH01 (2412MHz)



802.11n-20M CH01 (2412MHz)



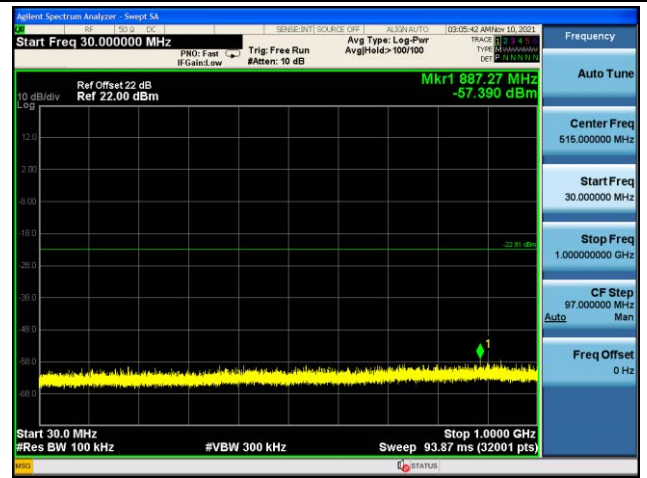
802.11n-20M CH01 (2412MHz)



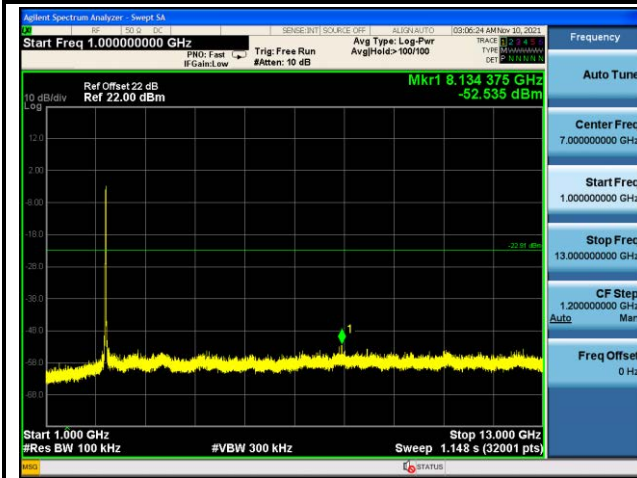
802.11n-20M CH06 (2437MHz)



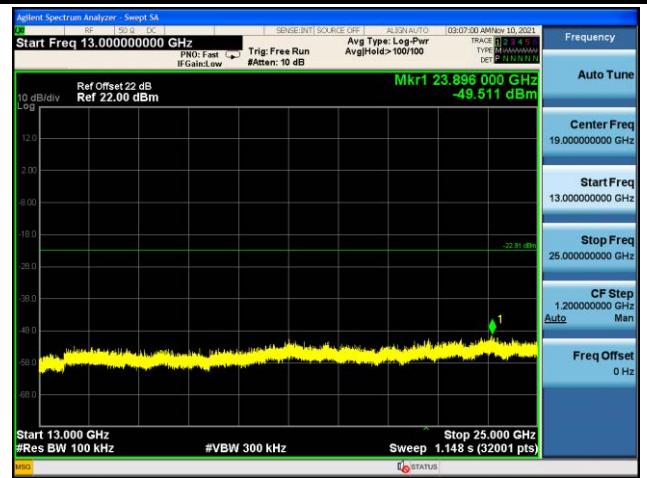
802.11n-20M CH06 (2437MHz)



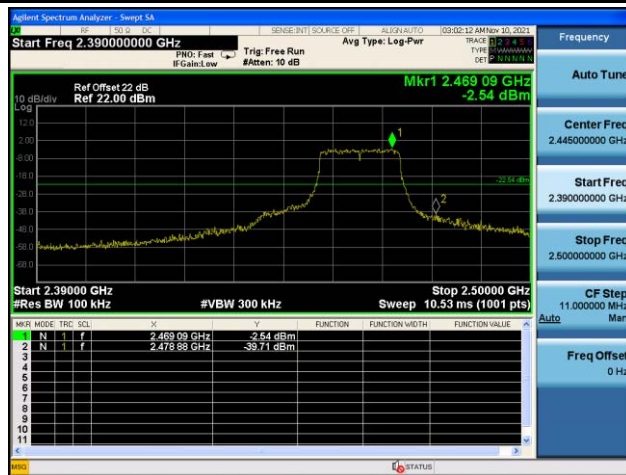
802.11n-20M CH06 (2437MHz)



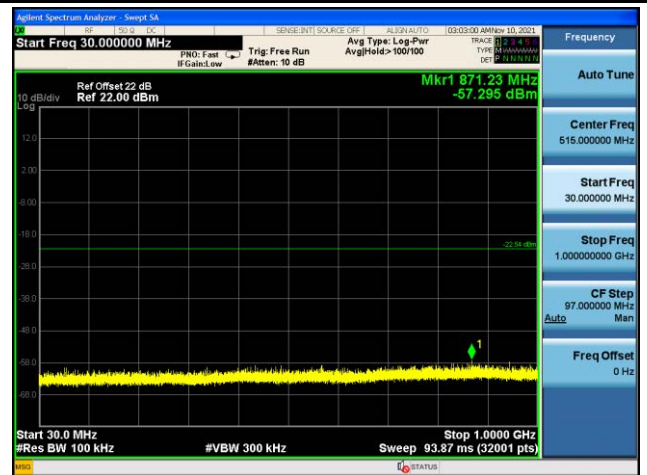
802.11n-20M CH06 (2437MHz)



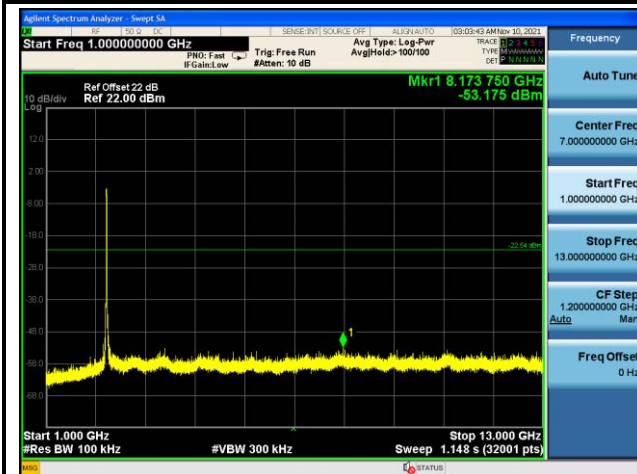
802.11n-20M CH011 (2462MHz)



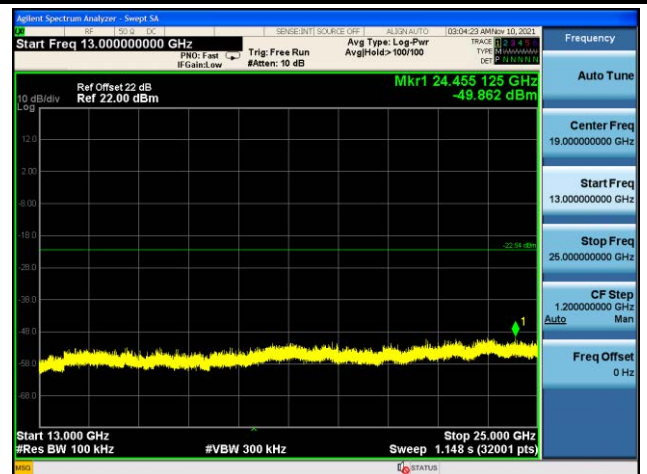
802.11n-20M CH011 (2462MHz)



802.11n-20M CH011 (2462MHz)



802.11n-20M CH011 (2462MHz)



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

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

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

7.6.2. Test Procedure Used

KDB 558074 D01v05r02- Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v05r02- Section 12.2.4 (peak power measurements)

KDB 558074 D01v05r02- Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements

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

6. Trace mode = max hold

7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

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

Average Field Strength Measurements

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

2. RBW = 1MHz

3. VBW $\geq 1/T$

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

5. Detector = Peak

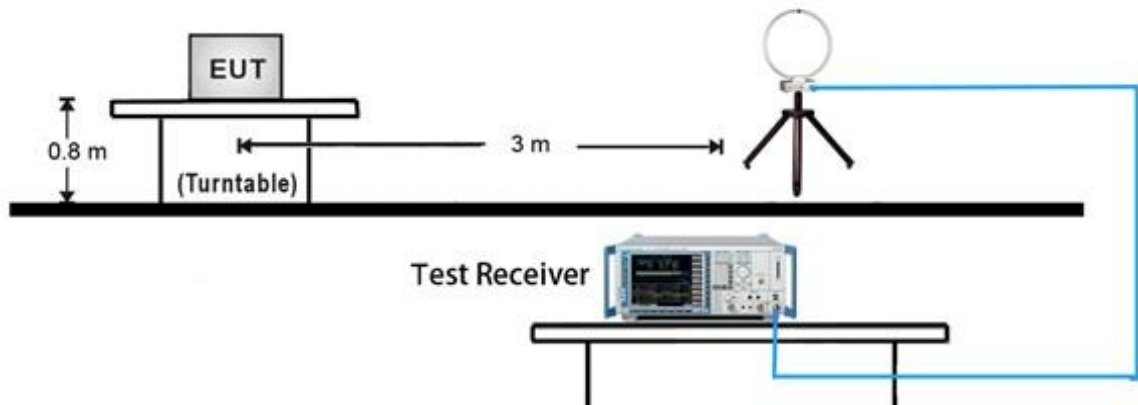
6. Sweep time = auto

7. Trace mode = max hold

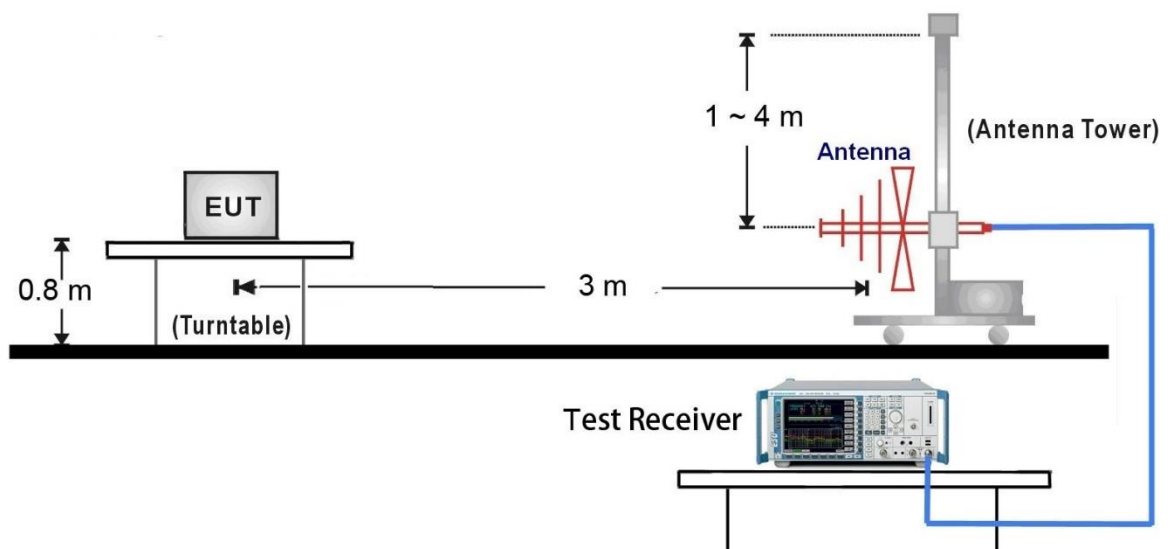
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

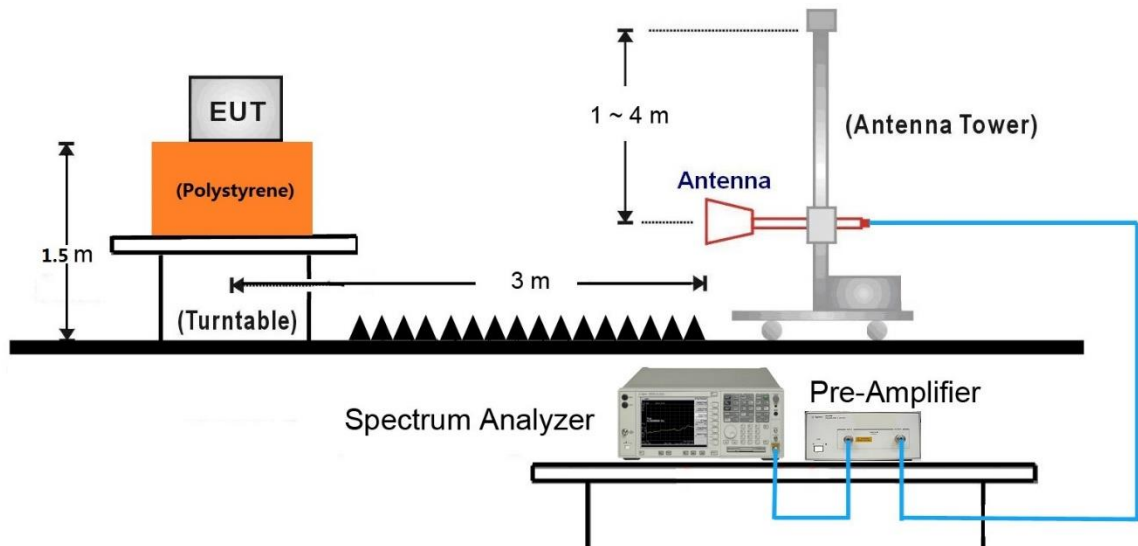
9kHz ~ 30MHz Test Setup:



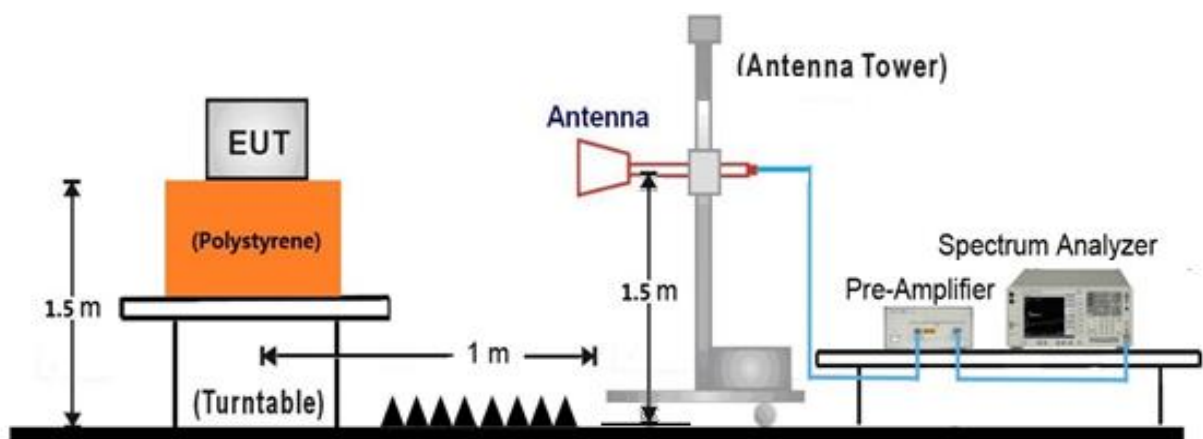
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

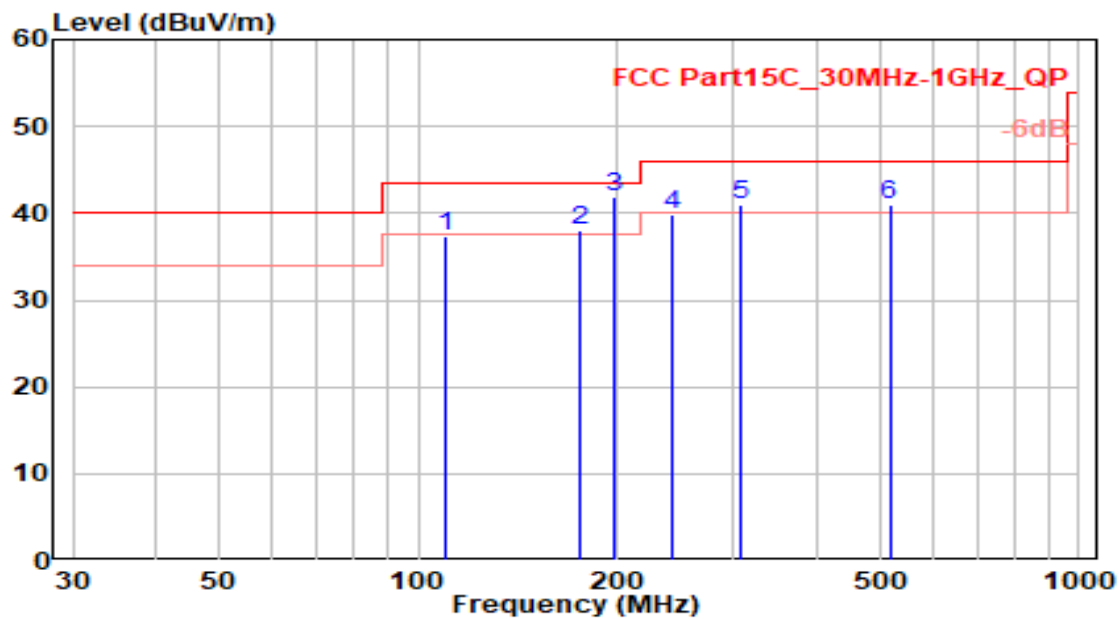


18GHz ~ 25GHz Test Setup:



7.6.5. Test Result

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-09
Factor	VULB 9162	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

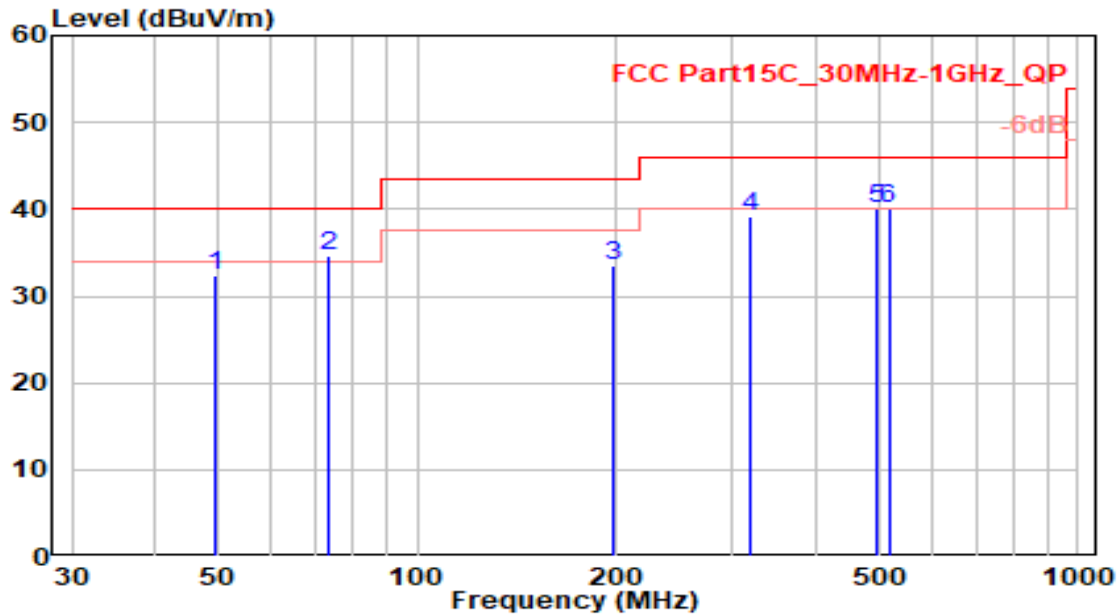


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	109.540	18.90	18.51	37.40	-6.10	43.50	100	0	QP
2	175.500	21.59	16.56	38.15	-5.35	43.50	100	100	QP
3	* 197.810	23.60	18.28	41.88	-1.62	43.50	150	145	QP
4	241.460	19.79	20.02	39.81	-6.19	46.00	100	120	QP
5	307.420	19.67	21.22	40.89	-5.11	46.00	100	220	QP
6	516.940	15.50	25.57	41.08	-4.92	46.00	100	350	QP

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-09
Factor	VULB 9162	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

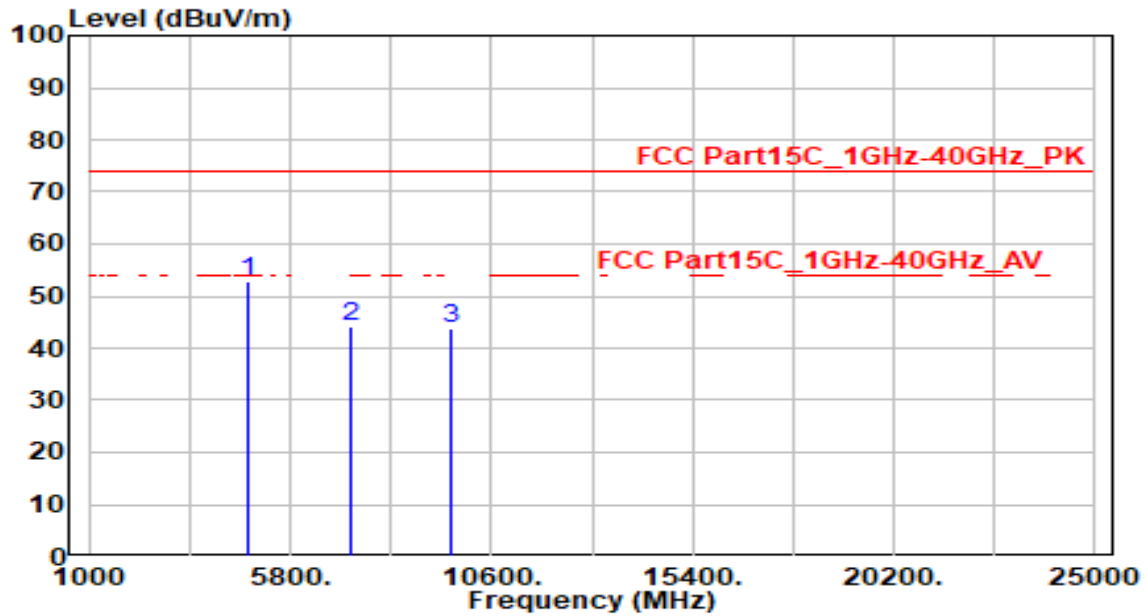


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	49.400	11.18	21.23	32.40	-7.60	40.00	100	50	QP
2	* 73.650	19.53	15.21	34.74	-5.26	40.00	100	100	QP
3	197.810	15.29	18.28	33.57	-9.93	43.50	100	230	QP
4	319.060	17.52	21.59	39.11	-6.89	46.00	100	150	QP
5	494.630	14.93	25.20	40.14	-5.86	46.00	100	255	QP
6	516.940	14.46	25.57	40.03	-5.97	46.00	100	300	QP

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

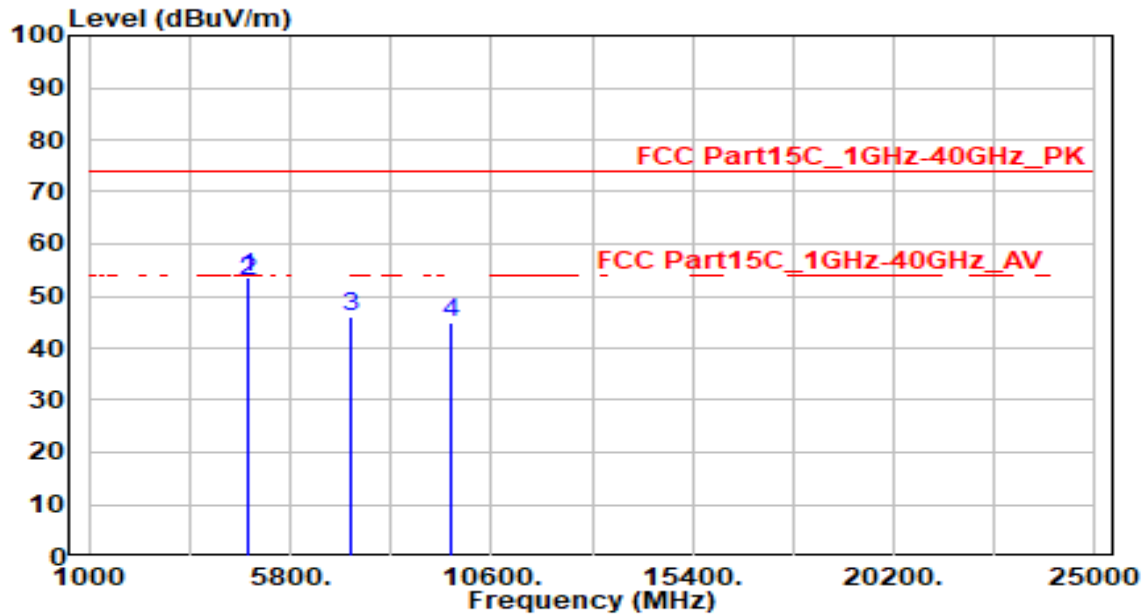


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4824.000	53.42	-0.41	53.02	-20.98	74.00	150	360	Peak
2	7236.000	39.80	4.52	44.32	-29.68	74.00	150	360	Peak
3	9648.000	39.27	4.38	43.65	-30.35	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

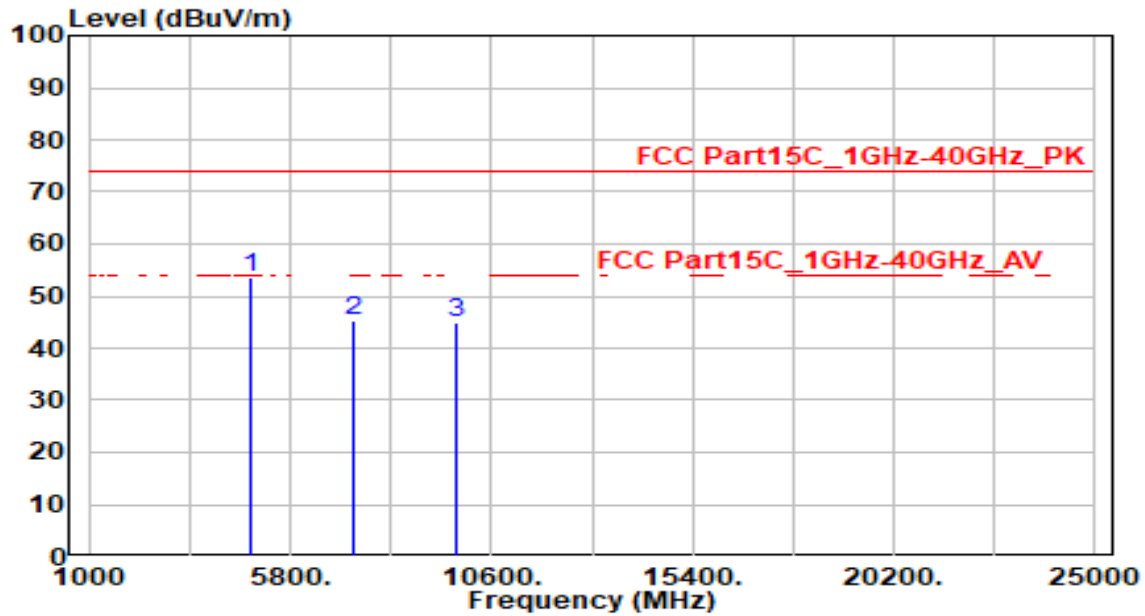


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	54.15	-0.41	53.74	-20.26	74.00	120	65	Peak
2	*	4824.000	53.42	-0.41	53.01	-0.99	54.00	120	65	Average
3		7236.000	41.61	4.52	46.13	-27.87	74.00	150	360	Peak
4		9648.000	40.60	4.38	44.98	-29.02	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

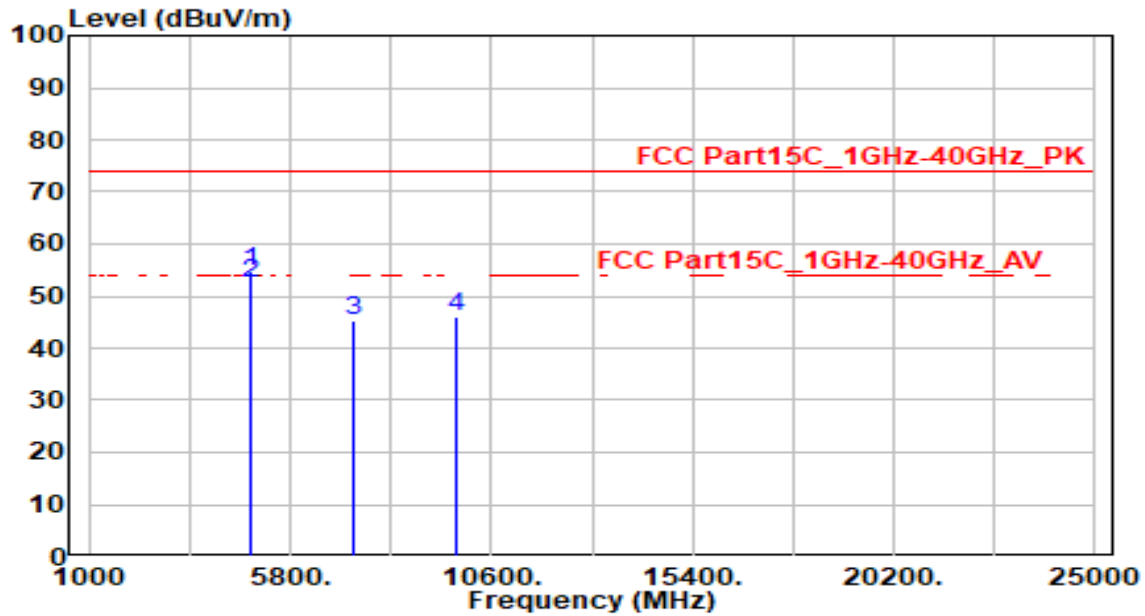


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4874.000	53.80	-0.31	53.49	-20.51	74.00	150	360	Peak
2	7311.000	40.68	4.61	45.29	-28.71	74.00	150	360	Peak
3	9748.000	40.42	4.43	44.85	-29.15	74.00	150	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ 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	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

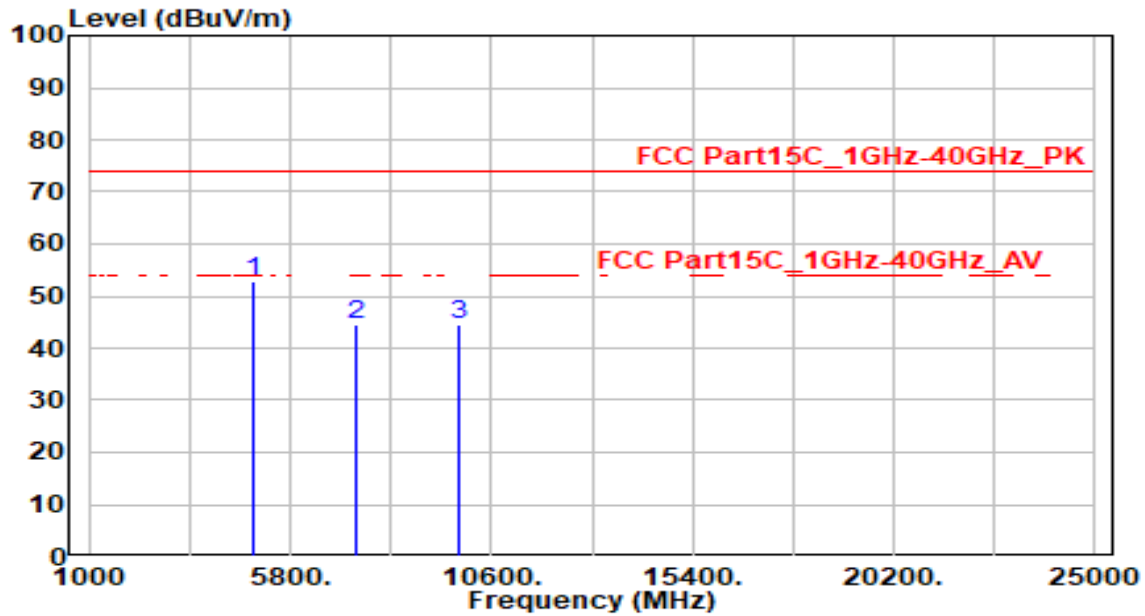


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	54.85	-0.31	54.53	-19.47	74.00	150	320	Peak
2	*	4874.000	52.86	-0.31	52.55	-1.45	54.00	150	320	Average
3		7311.000	40.70	4.61	45.31	-28.69	74.00	150	360	Peak
4		9748.000	41.62	4.43	46.05	-27.95	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

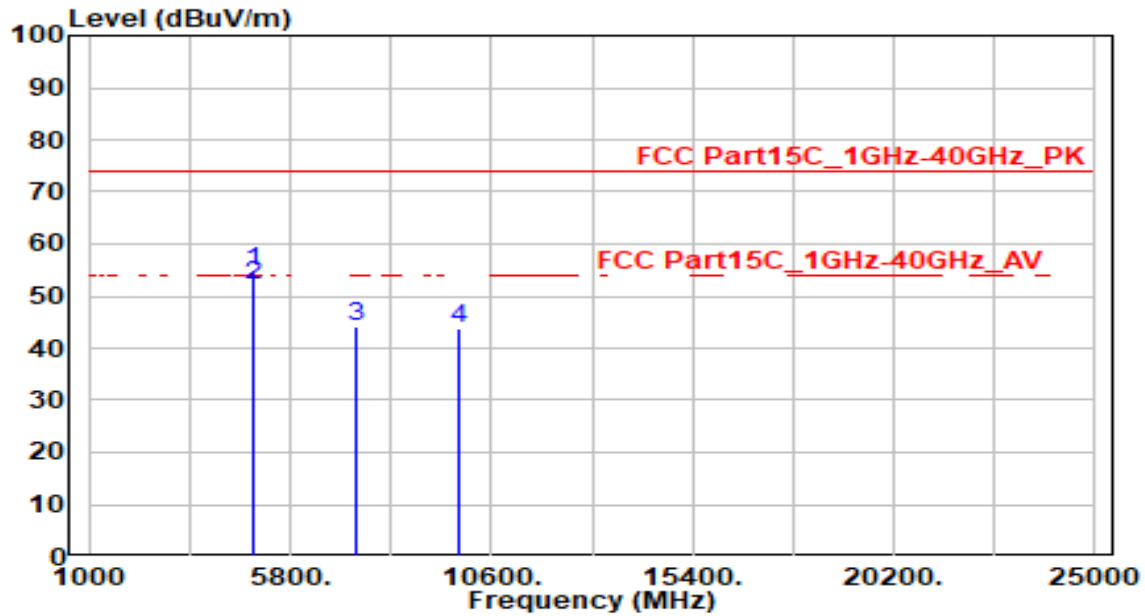


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4924.000	52.95	-0.22	52.73	-21.27	74.00	150	360	Peak
2	7386.000	39.77	4.69	44.46	-29.54	74.00	150	360	Peak
3	9848.000	39.95	4.46	44.41	-29.59	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

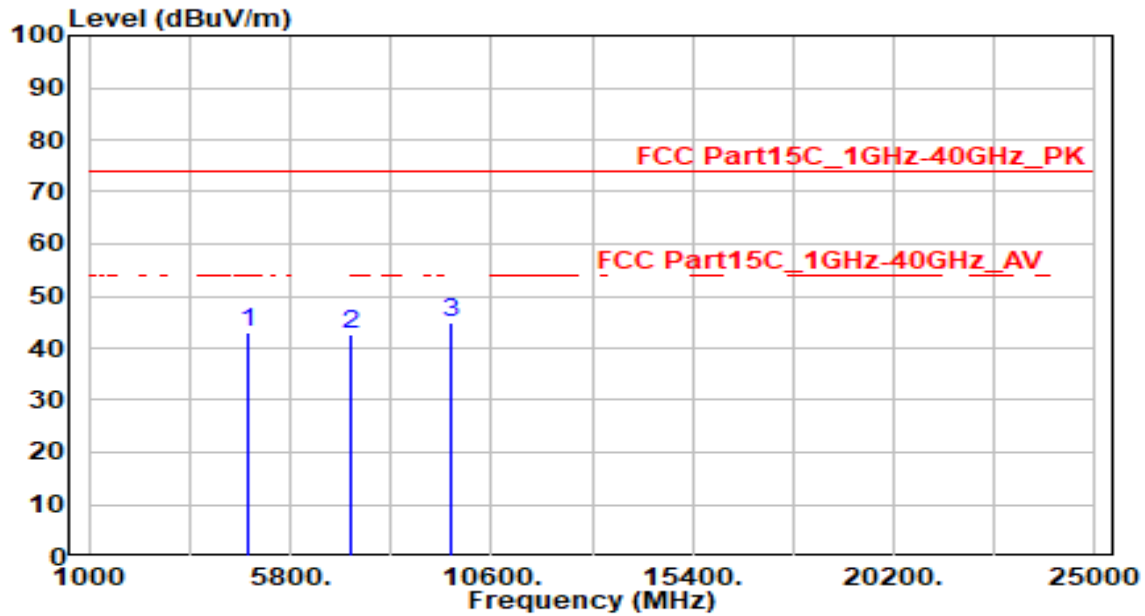


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4924.000	55.02	-0.22	54.80	-19.20	74.00	150	180	Peak
2	*	4924.000	52.36	-0.22	52.14	-1.86	54.00	150	180	Average
3		7386.000	39.33	4.69	44.02	-29.98	74.00	150	360	Peak
4		9848.000	39.39	4.46	43.85	-30.15	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

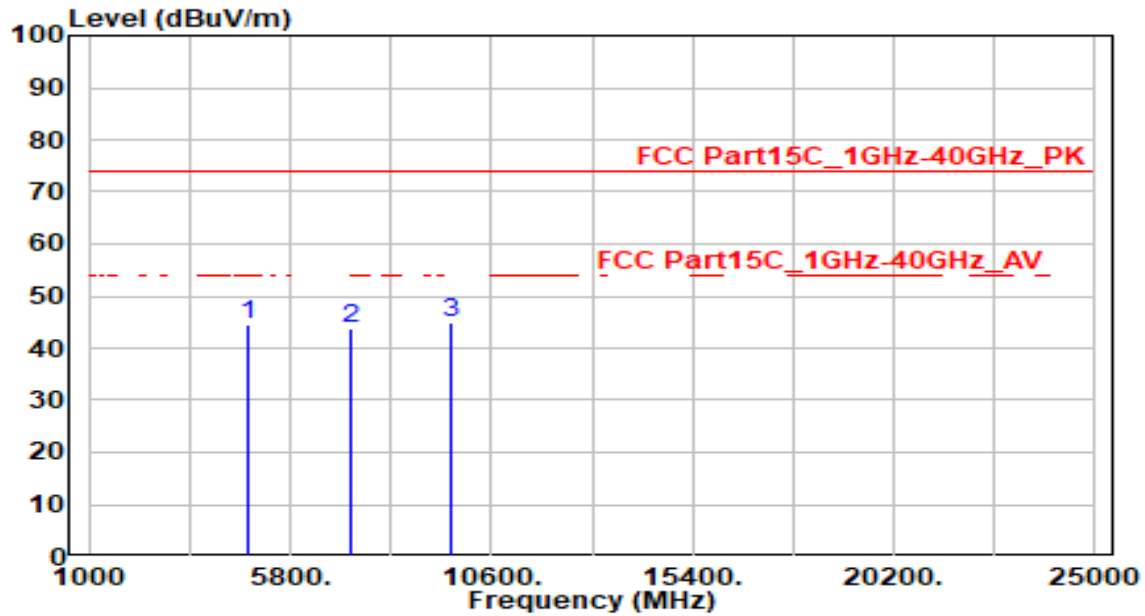


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	43.34	-0.41	42.93	-31.07	74.00	150	360	Peak
2	7236.000	38.20	4.52	42.72	-31.28	74.00	150	360	Peak
3	* 9648.000	40.53	4.38	44.90	-29.10	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

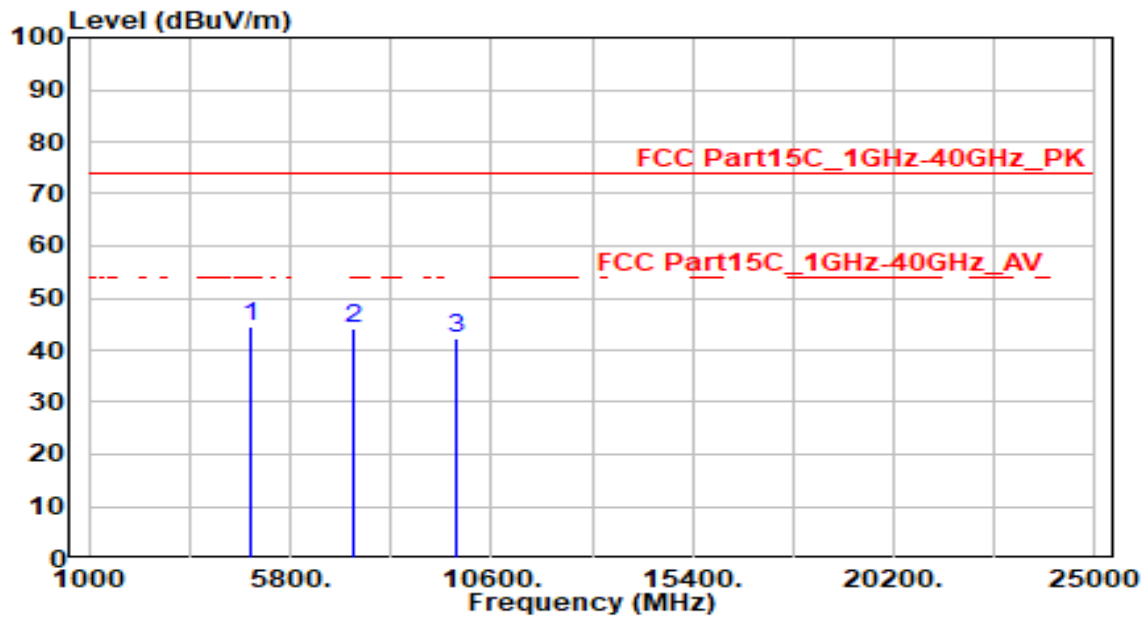


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	44.92	-0.41	44.51	-29.49	74.00	150	360	Peak
2	7236.000	39.26	4.52	43.78	-30.22	74.00	150	360	Peak
3	* 9648.000	40.38	4.38	44.76	-29.24	74.00	150	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ 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	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

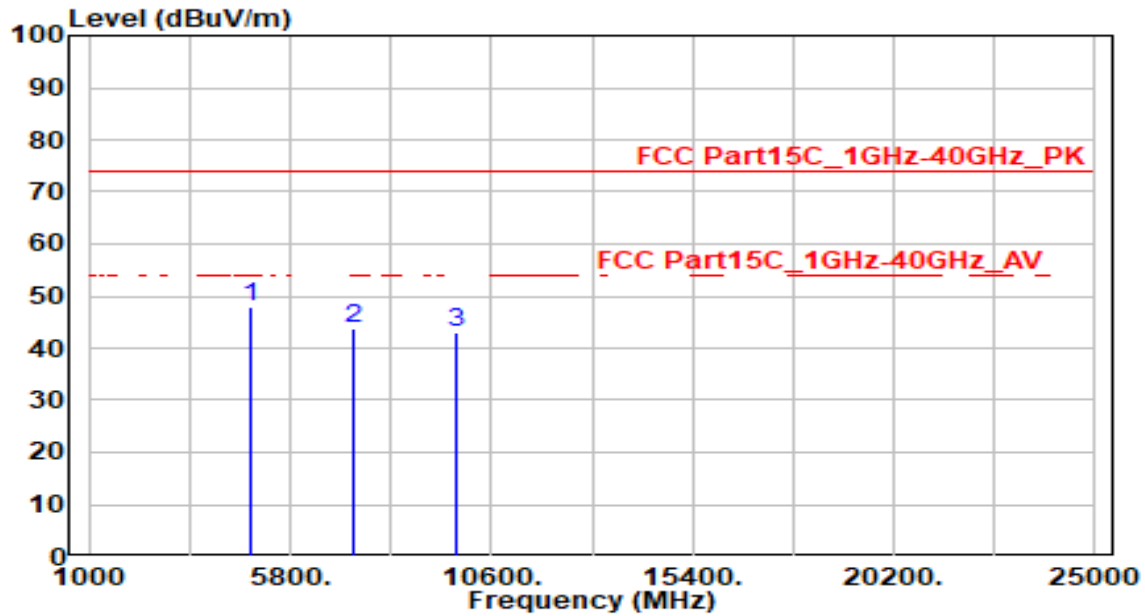


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4874.000	44.72	-0.31	44.40	-29.60	74.00	150	360	Peak
2	7311.000	39.46	4.61	44.07	-29.93	74.00	150	360	Peak
3	9748.000	38.02	4.43	42.45	-31.55	74.00	150	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ 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	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

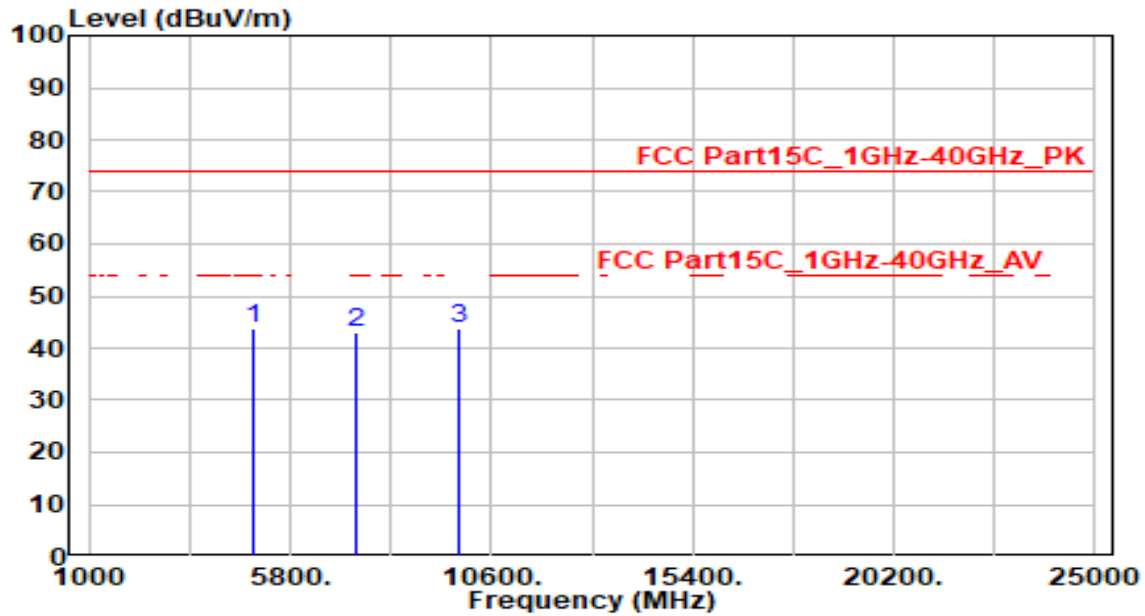


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4874.000	48.08	-0.31	47.76	-26.24	74.00	150	360	Peak
2	7311.000	39.07	4.61	43.68	-30.32	74.00	150	360	Peak
3	9748.000	38.71	4.43	43.14	-30.86	74.00	150	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ 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	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

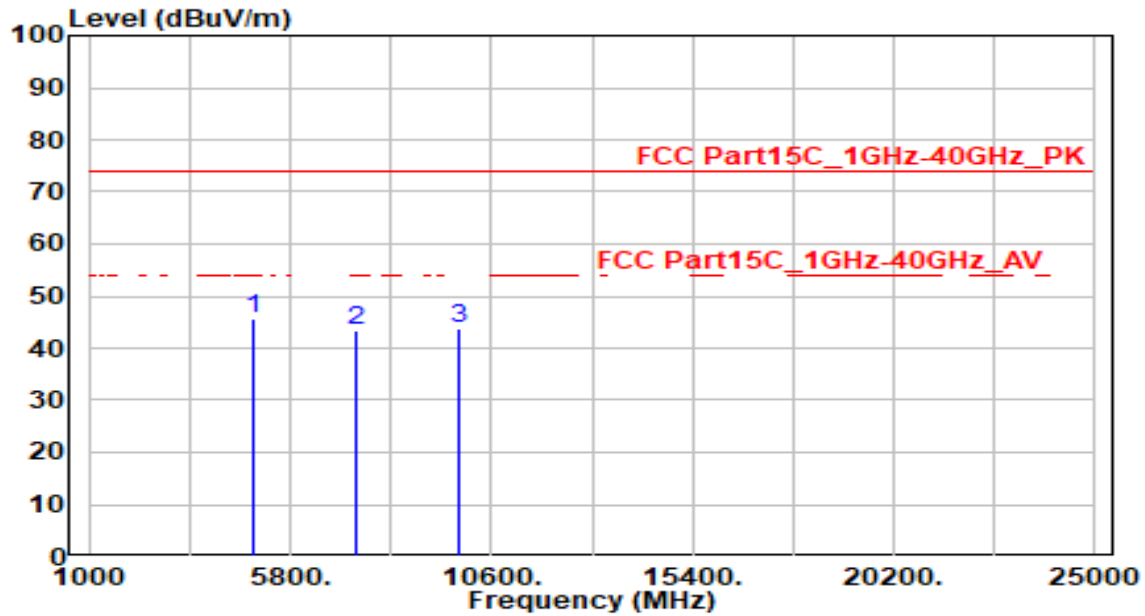


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4924.000	44.06	-0.22	43.84	-30.16	74.00	150	360	Peak
2	7386.000	38.34	4.69	43.03	-30.97	74.00	150	360	Peak
3	9848.000	39.23	4.46	43.69	-30.31	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

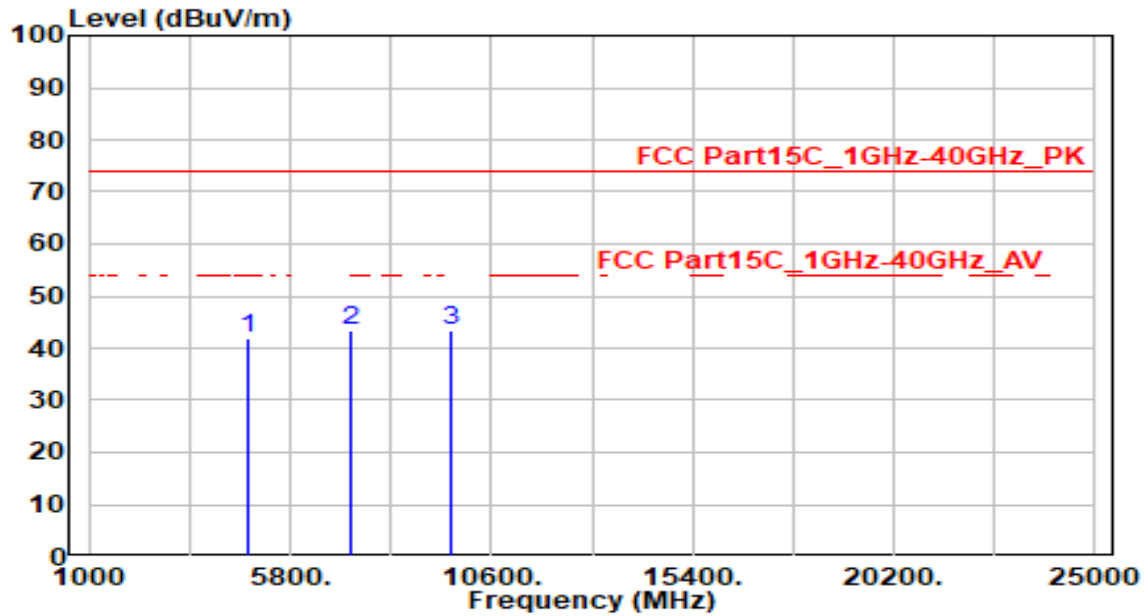


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4924.000	45.70	-0.22	45.48	-28.52	74.00	150	360	Peak
2	7386.000	38.68	4.69	43.37	-30.63	74.00	150	360	Peak
3	9848.000	39.39	4.46	43.86	-30.14	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

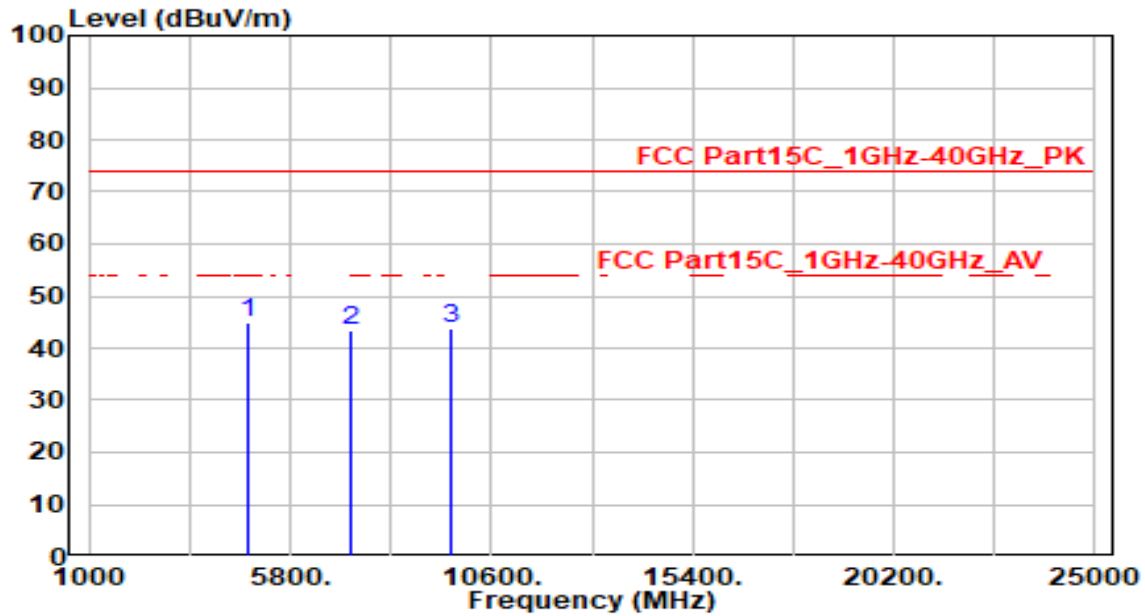


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	42.37	-0.41	41.96	-32.04	74.00	150	360	Peak
2	7236.000	38.70	4.52	43.22	-30.78	74.00	150	360	Peak
3	* 9648.000	39.15	4.38	43.52	-30.48	74.00	150	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ 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	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

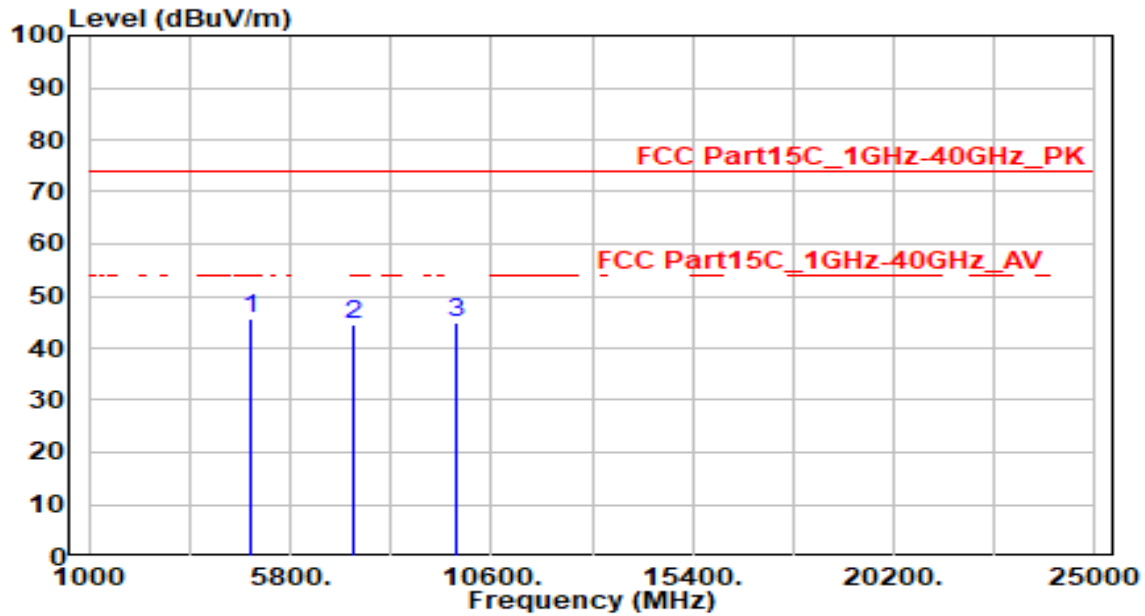


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4824.000	45.24	-0.41	44.83	-29.17	74.00	150	360	Peak
2	7236.000	38.95	4.52	43.48	-30.52	74.00	150	360	Peak
3	9648.000	39.47	4.38	43.85	-30.15	74.00	150	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ 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	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

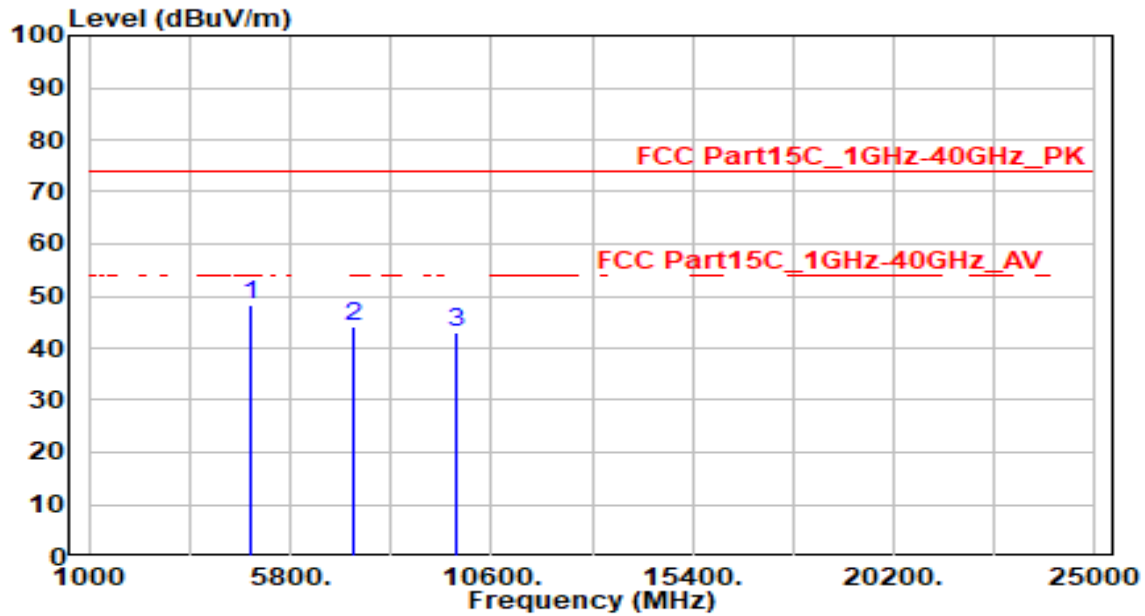


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4874.000	45.85	-0.31	45.54	-28.46	74.00	150	360	Peak
2	7311.000	40.01	4.61	44.62	-29.38	74.00	150	360	Peak
3	9748.000	40.60	4.43	45.03	-28.97	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

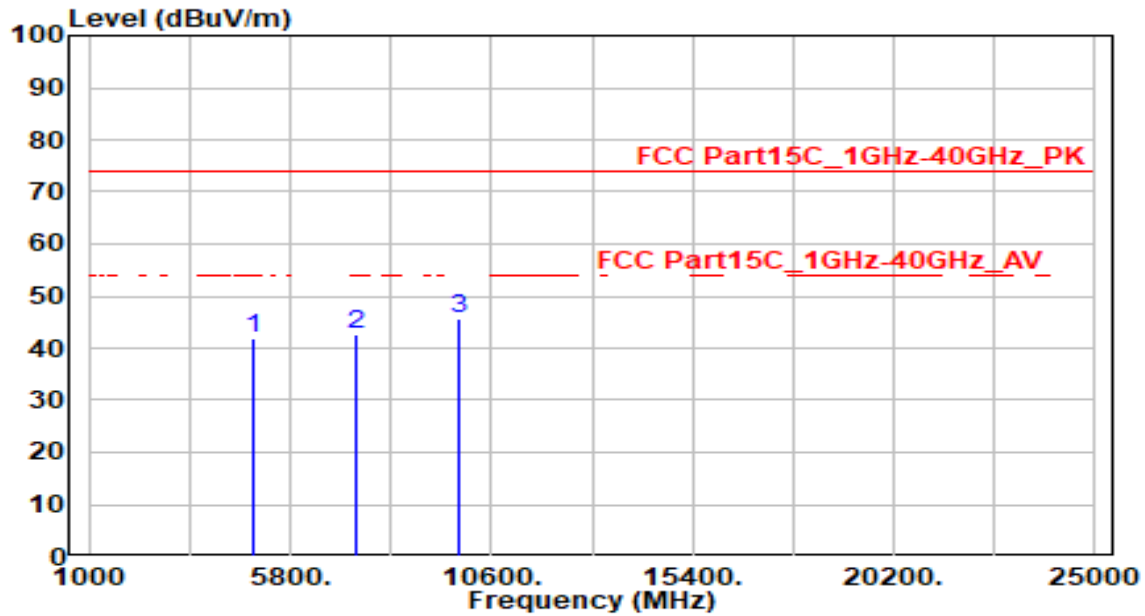


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4874.000	48.53	-0.31	48.22	-25.78	74.00	150	360	Peak
2	7311.000	39.68	4.61	44.29	-29.71	74.00	150	360	Peak
3	9748.000	38.41	4.43	42.84	-31.16	74.00	150	36	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ 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	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

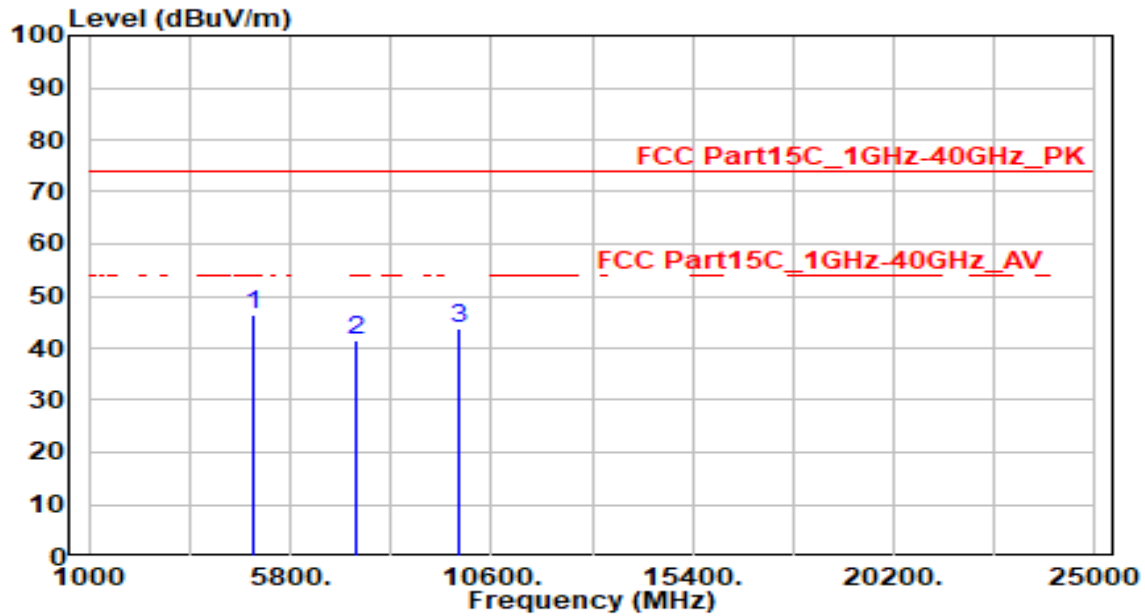


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	41.95	-0.22	41.73	-32.27	74.00	150	360	Peak
2	7386.000	38.09	4.69	42.78	-31.22	74.00	150	360	Peak
3	* 9848.000	41.11	4.46	45.57	-28.43	74.00	150	360	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4924.000	46.67	-0.22	46.45	-27.55	74.00	150	360	Peak
2	7386.000	36.75	4.69	41.44	-32.56	74.00	150	360	Peak
3	9848.000	39.18	4.46	43.64	-30.36	74.00	150	360	Peak

Note:

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

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

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

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

7.7.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

7.7.3. Test Setting

Peak Field Strength Measurements

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

Table 1 - RBW as a function of frequency

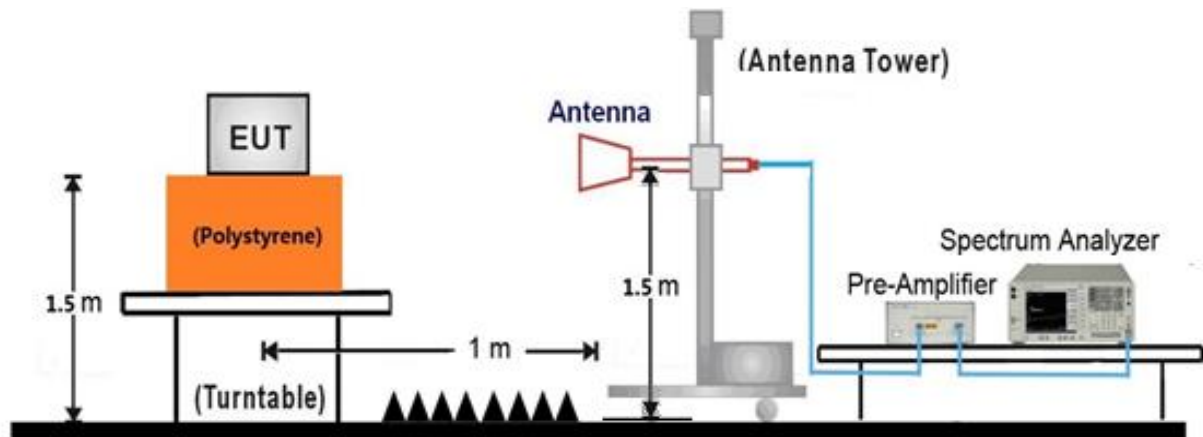
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

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

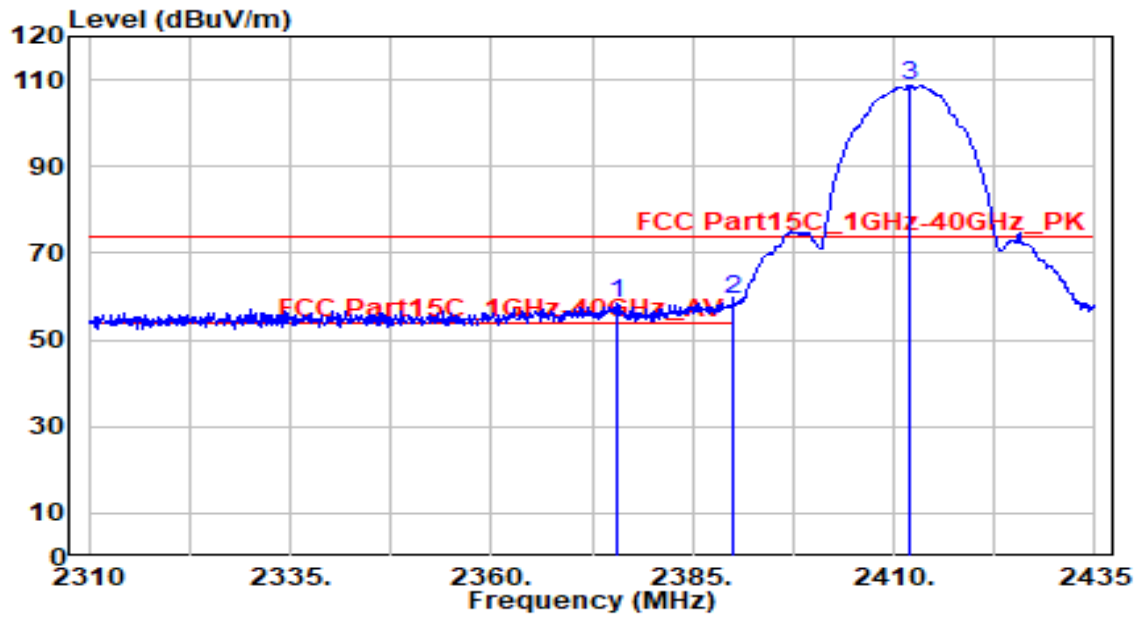
7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



7.7.5. Test Result

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

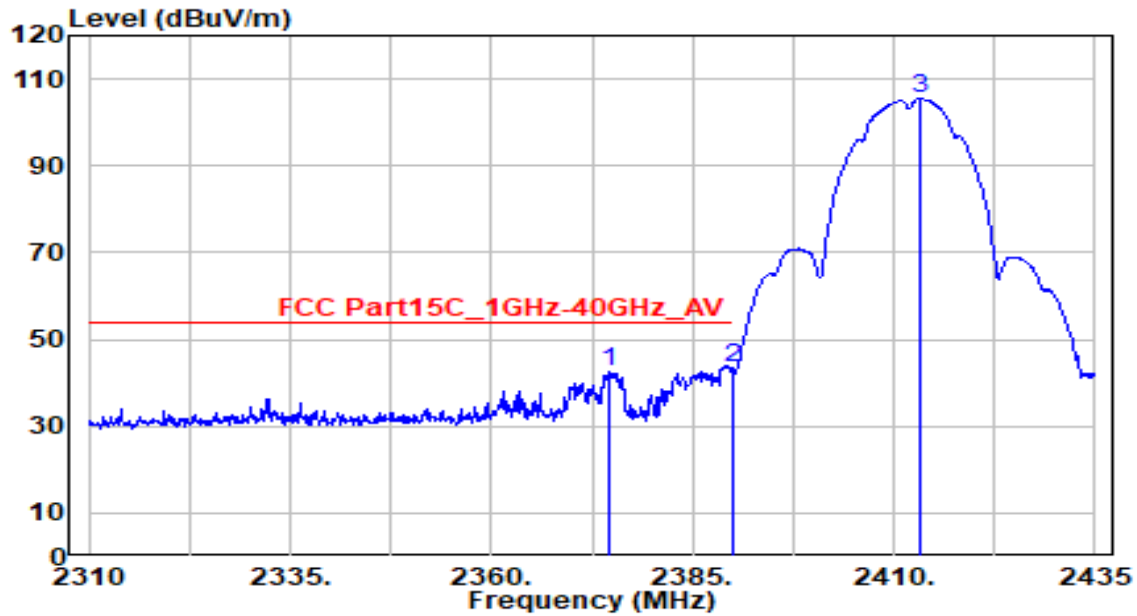


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2375.625	28.25	30.25	58.50	-15.50	74.00	150	115	Peak
2	* 2390.000	29.05	30.29	59.33	-14.67	74.00	150	115	Peak
3	2411.875	78.38	30.33	108.71	N/A	N/A	150	115	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

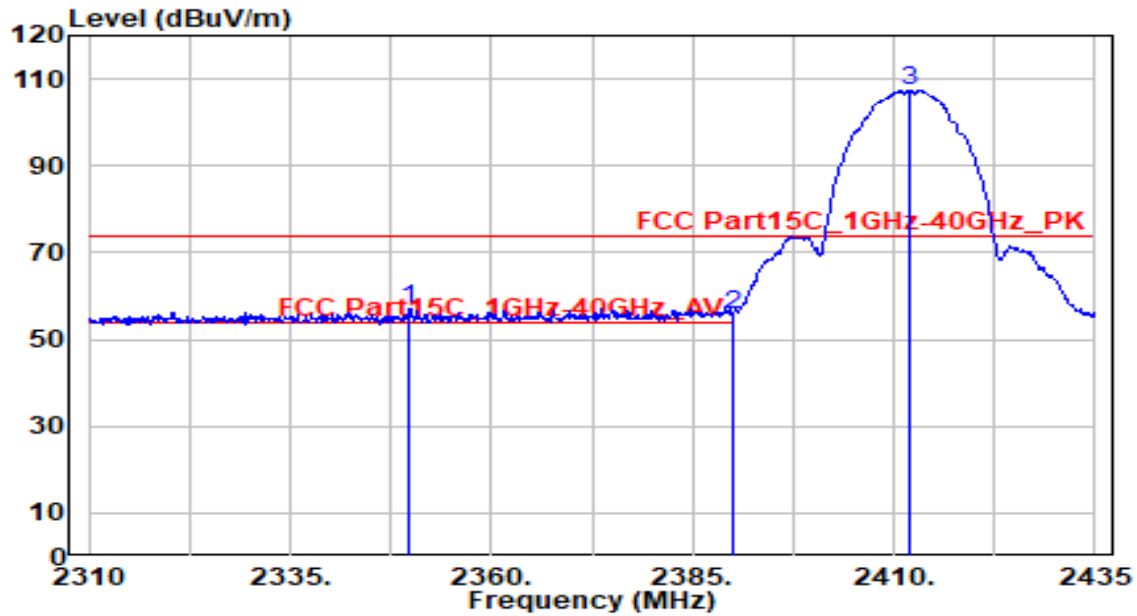


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2374.500	12.10	30.25	42.35	-11.65	54.00	150	115	Average
2	* 2390.000	13.12	30.29	43.41	-10.59	54.00	150	115	Average
3	2413.125	75.11	30.33	105.45	N/A	N/A	150	115	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

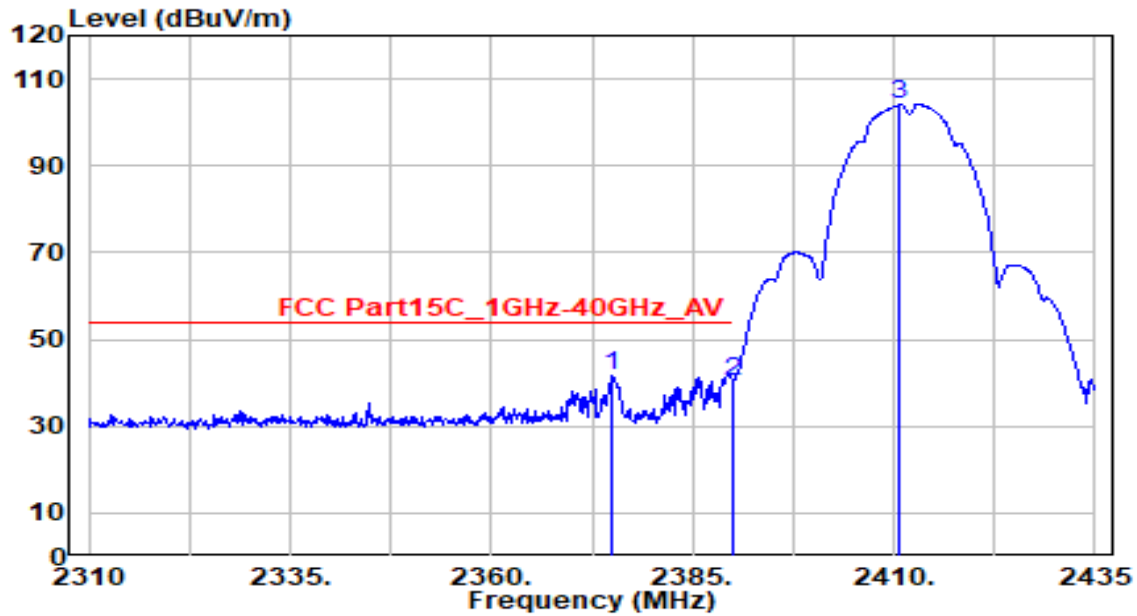


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2349.875	26.97	30.19	57.16	-16.84	74.00	150	90	Peak
2	2390.000	25.60	30.29	55.88	-18.12	74.00	150	90	Peak
3	2411.875	77.21	30.33	107.54	N/A	N/A	150	90	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

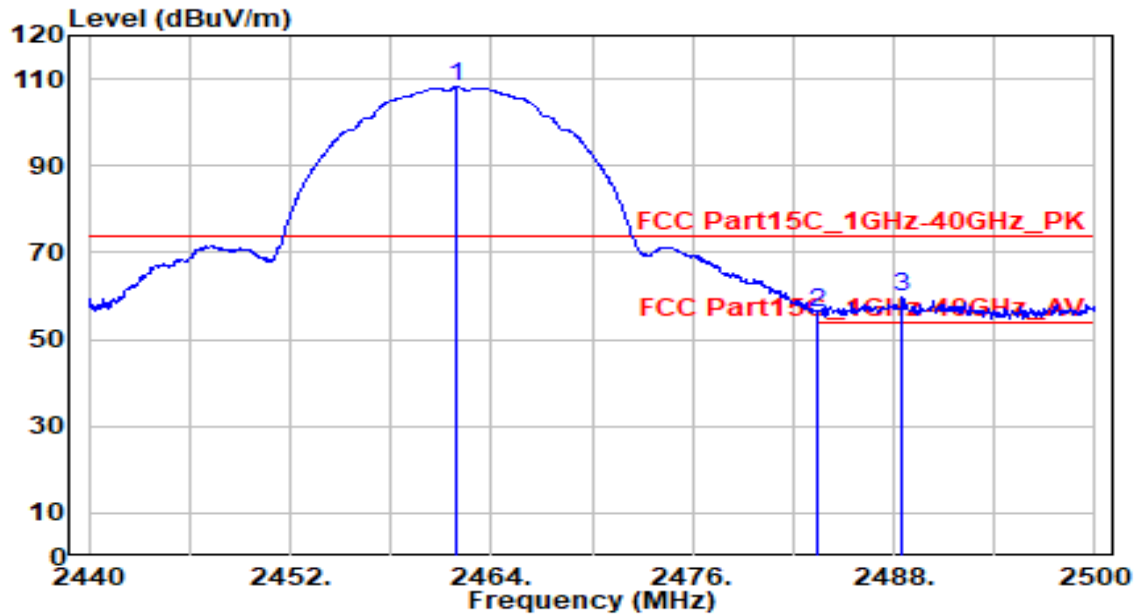


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2375.000	11.44	30.25	41.69	-12.31	54.00	150	90	Average
2	2390.000	10.05	30.29	40.34	-13.66	54.00	150	90	Average
3	2410.750	73.77	30.33	104.10	N/A	N/A	150	90	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

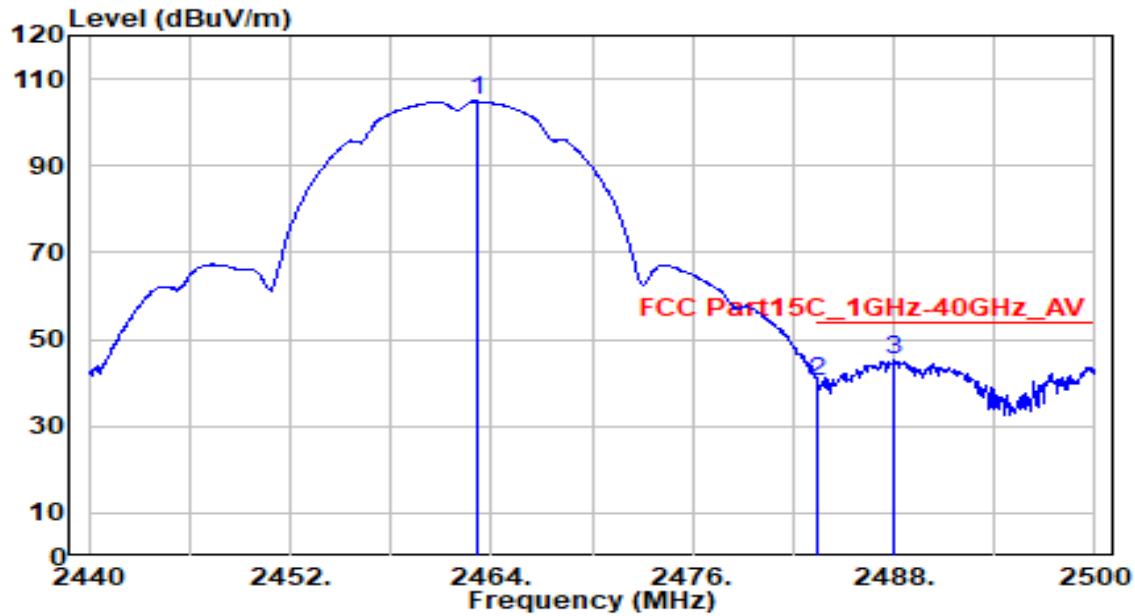


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.960	77.85	30.42	108.28	N/A	N/A	150	115	Peak
2	2483.500	25.77	30.46	56.23	-17.77	74.00	150	115	Peak
3	* 2488.540	29.34	30.47	59.80	-14.20	74.00	150	115	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

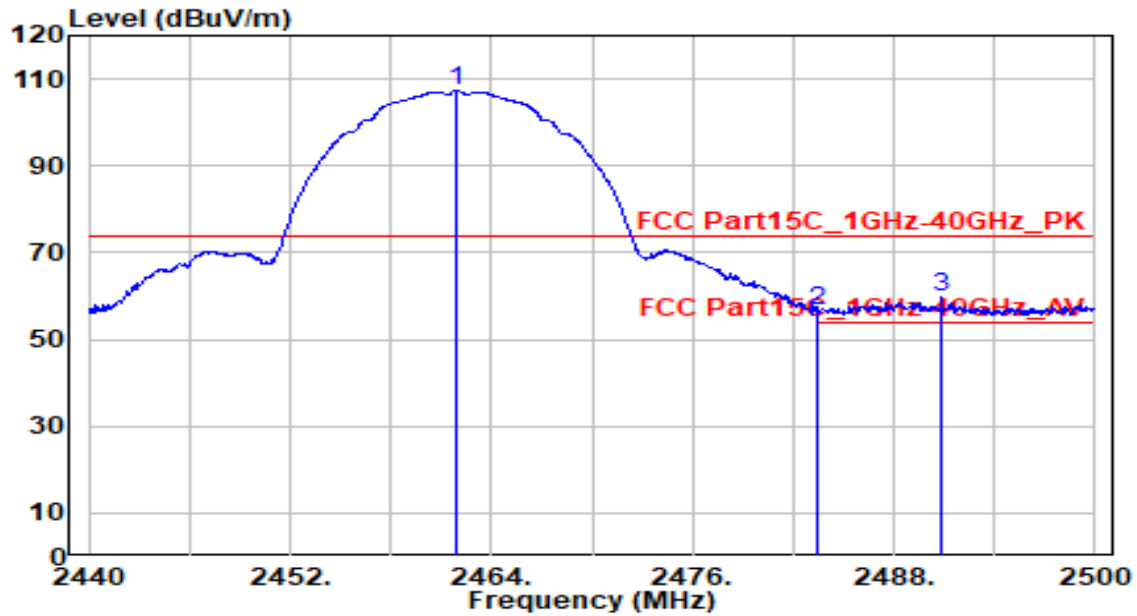


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.160	74.43	30.42	104.85	N/A	N/A	150	115	Average
2	2483.500	9.92	30.46	40.38	-13.62	54.00	150	115	Average
3	* 2488.000	14.86	30.47	45.33	-8.67	54.00	150	115	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

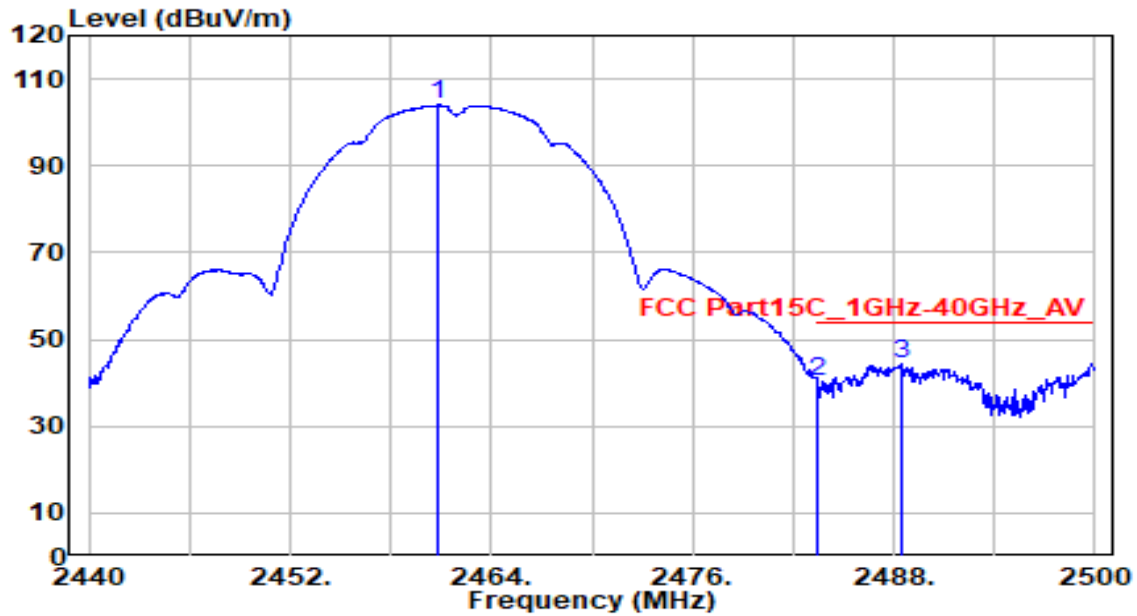


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.960	76.98	30.42	107.41	N/A	N/A	125	225	Peak
2	2483.500	26.00	30.46	56.46	-17.54	74.00	125	220	Peak
3	* 2490.820	29.08	30.47	59.55	-14.45	74.00	125	220	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

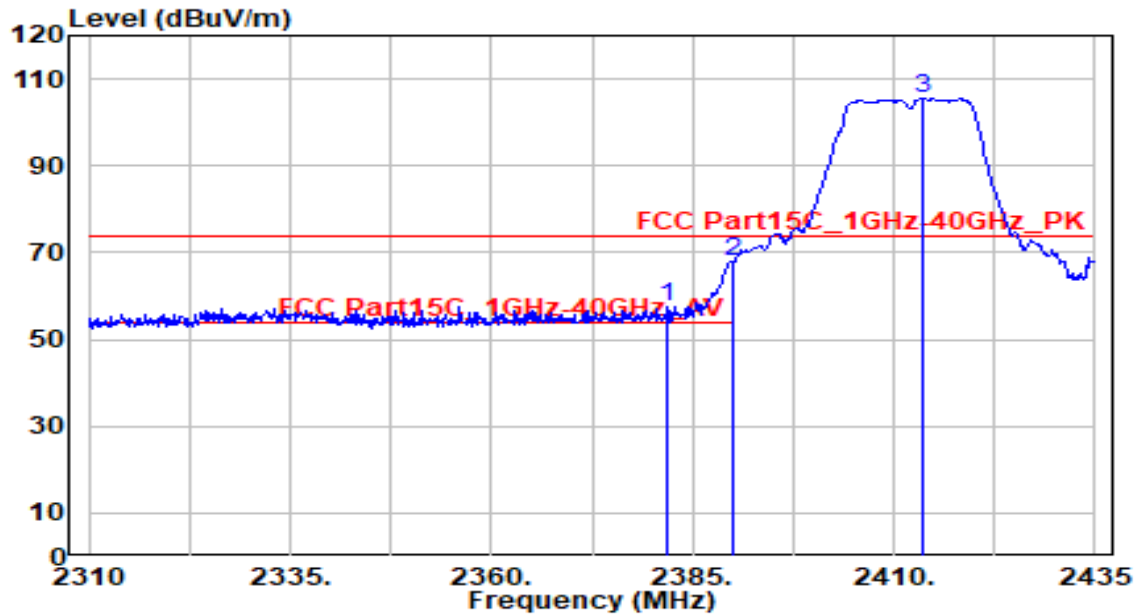


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.820	73.55	30.42	103.97	N/A	N/A	125	220	Average
2	2483.500	9.79	30.46	40.25	-13.75	54.00	125	220	Average
3	* 2488.480	13.72	30.47	44.19	-9.81	54.00	125	220	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

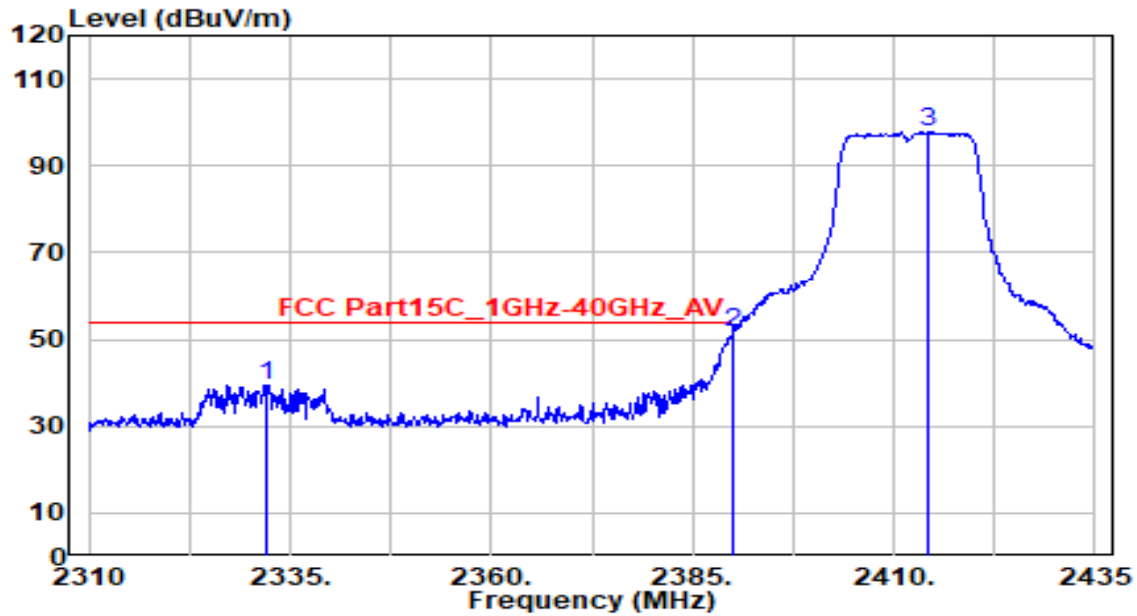


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2381.875	27.45	30.27	57.72	-16.28	74.00	150	120	Peak
2	* 2390.000	37.69	30.29	67.98	-6.02	74.00	150	120	Peak
3	2413.625	75.18	30.33	105.51	N/A	N/A	150	120	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

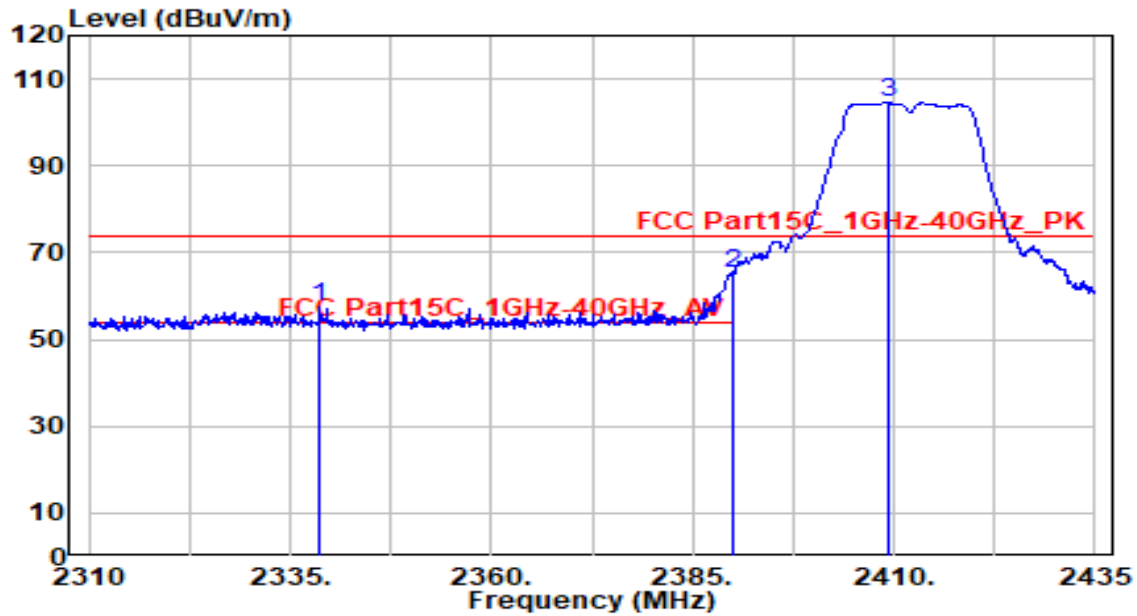


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2332.000	9.32	30.15	39.48	-14.52	54.00	150	120	Average
2	* 2390.000	21.41	30.29	51.70	-2.30	54.00	150	120	Average
3	2414.125	67.53	30.34	97.86	N/A	N/A	150	120	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

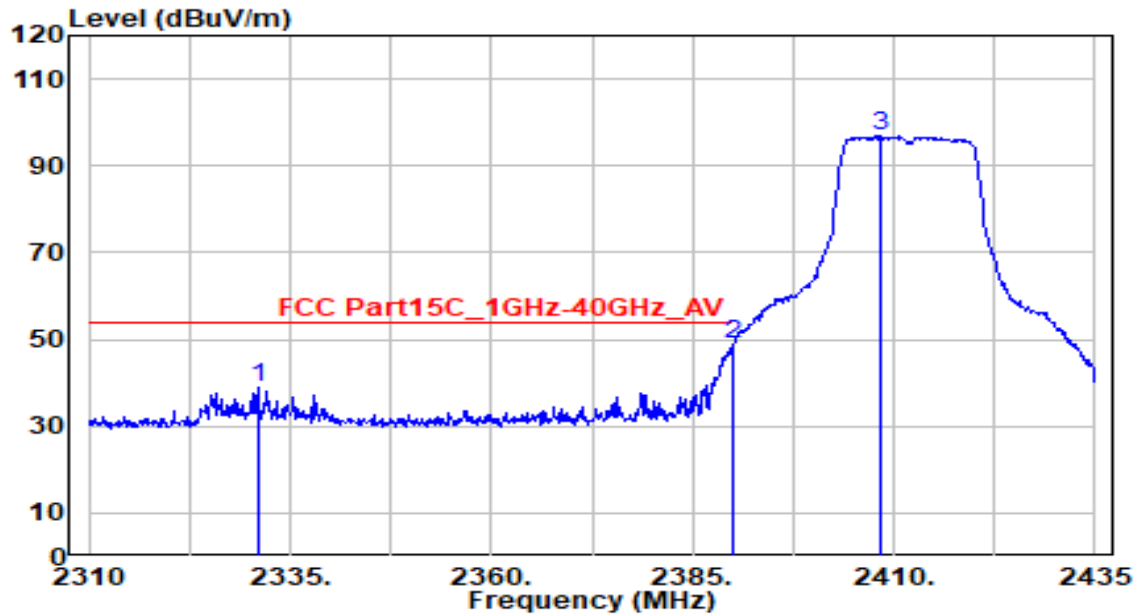


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2338.750	27.32	30.17	57.49	-16.51	74.00	150	95	Peak
2	* 2390.000	34.80	30.29	65.08	-8.92	74.00	150	95	Peak
3	2409.250	74.26	30.33	104.59	N/A	N/A	150	95	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

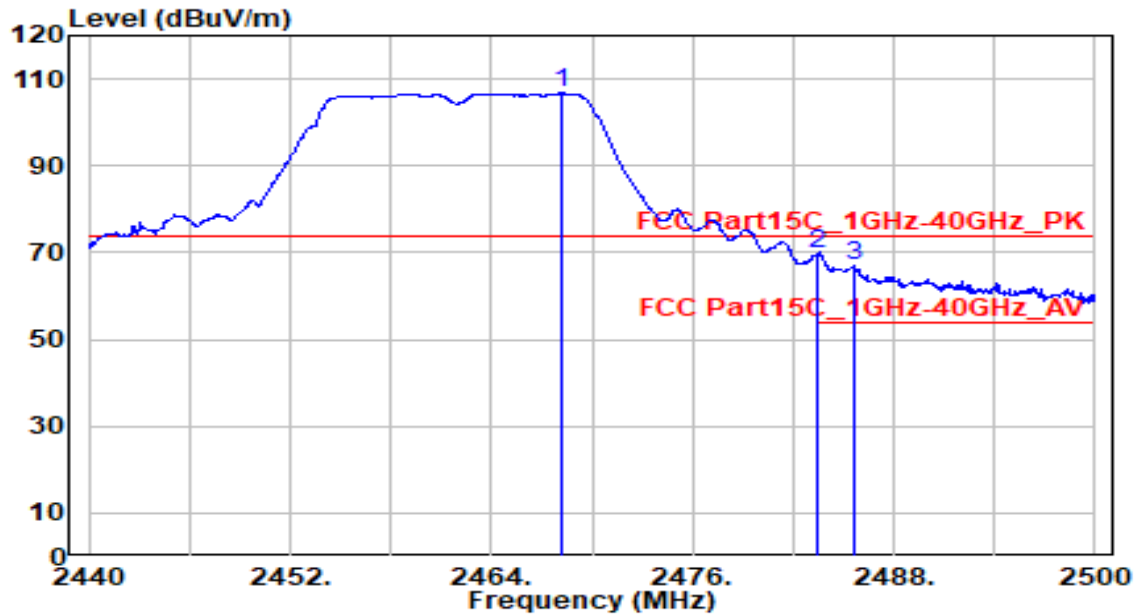


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2331.000	8.76	30.15	38.92	-15.08	54.00	150	95	Average
2	* 2390.000	18.65	30.29	48.94	-5.06	54.00	150	95	Average
3	2408.500	66.47	30.33	96.79	N/A	N/A	150	95	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

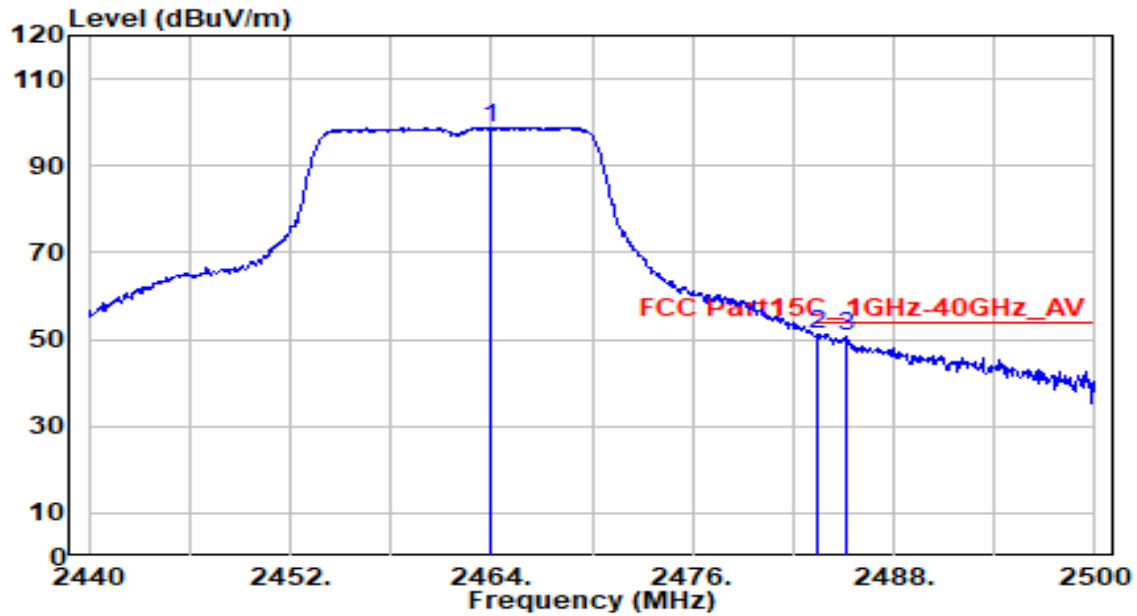


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2468.260	76.24	30.43	106.68	N/A	N/A	160	115	Peak
2	* 2483.500	39.44	30.46	69.90	-4.10	74.00	160	115	Peak
3	2485.600	36.54	30.46	67.01	-6.99	74.00	160	115	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

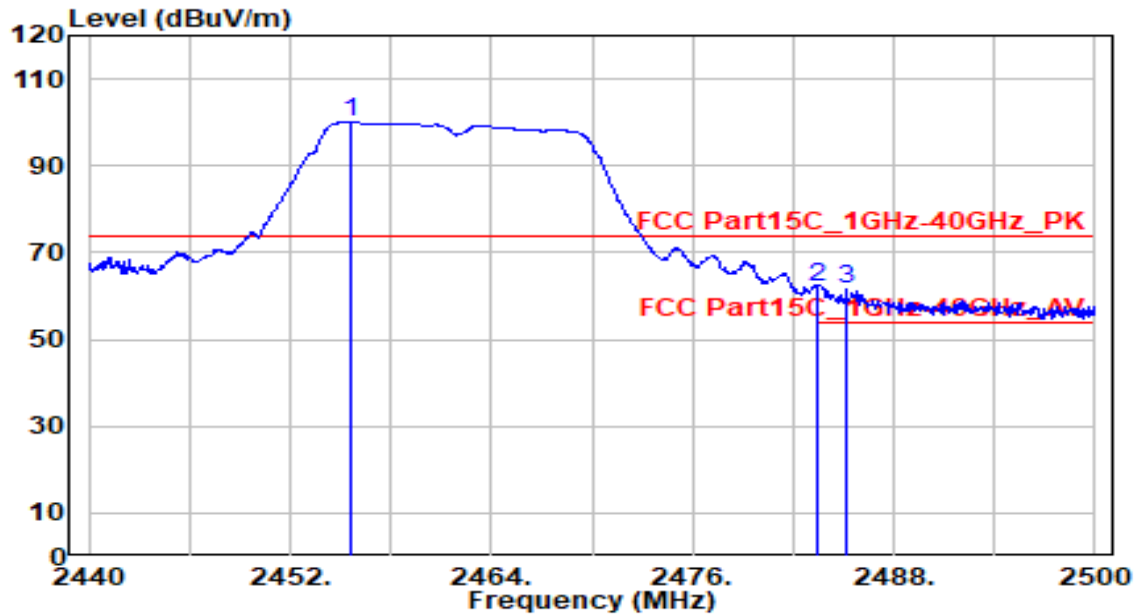


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.880	68.49	30.42	98.92	N/A	N/A	160	115	Average
2	* 2483.500	20.57	30.46	51.03	-2.97	54.00	160	115	Average
3	2485.180	20.22	30.46	50.68	-3.32	54.00	160	115	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

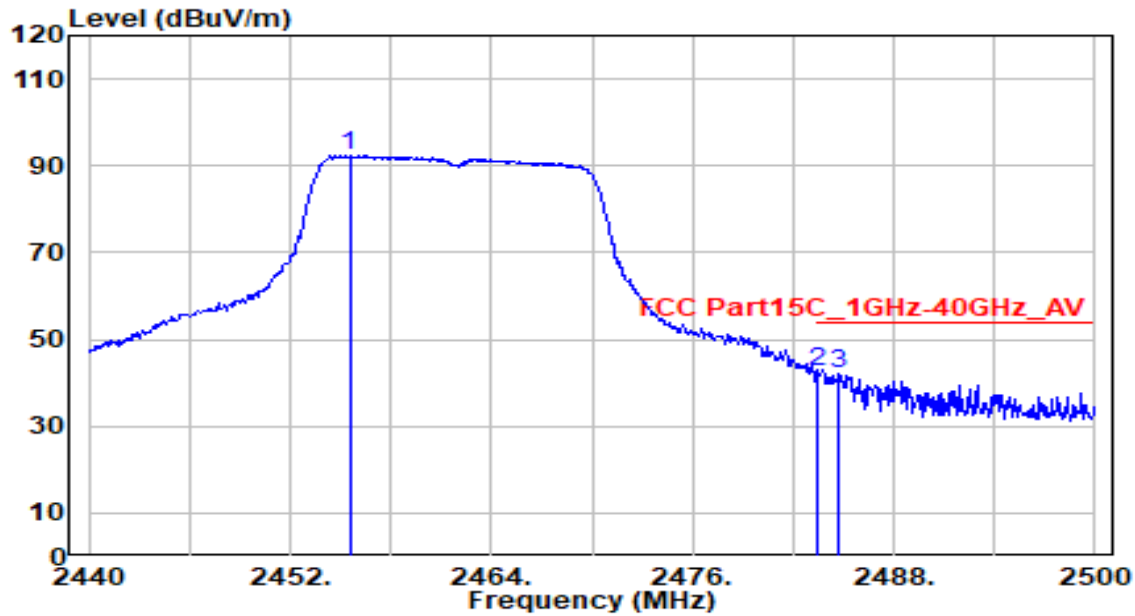


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2455.660	69.68	30.41	100.09	N/A	N/A	125	240	Peak
2	* 2483.500	31.64	30.46	62.10	-11.90	74.00	125	240	Peak
3	2485.180	31.15	30.46	61.62	-12.38	74.00	125	240	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

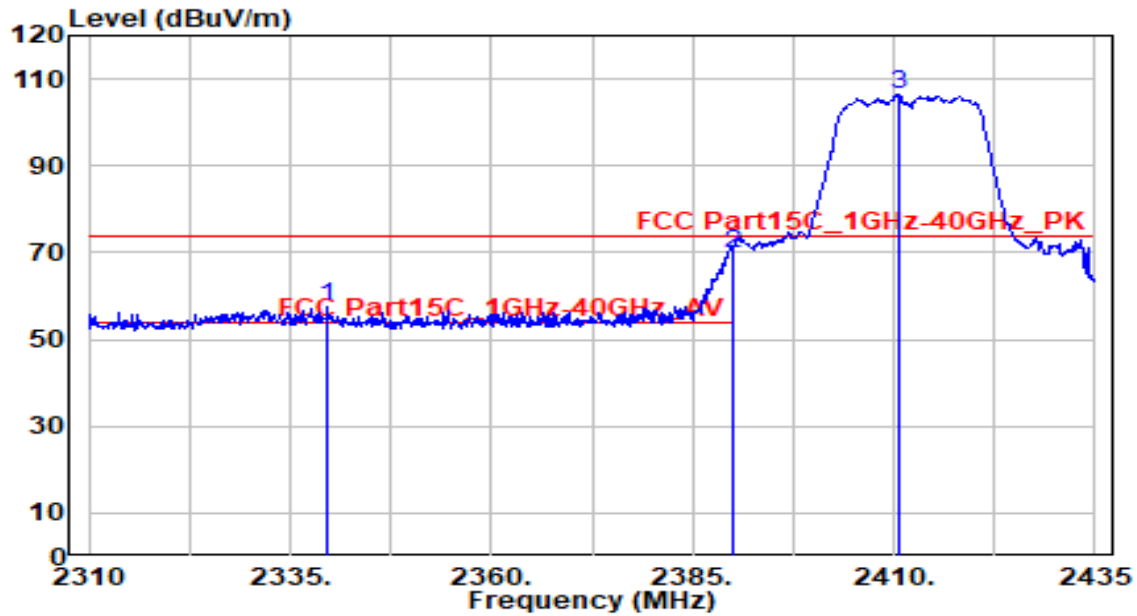


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2455.540	61.99	30.41	92.40	N/A	N/A	125	240	Average
2	* 2483.500	12.02	30.46	42.48	-11.52	54.00	125	240	Average
3	2484.700	11.79	30.46	42.25	-11.75	54.00	125	240	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

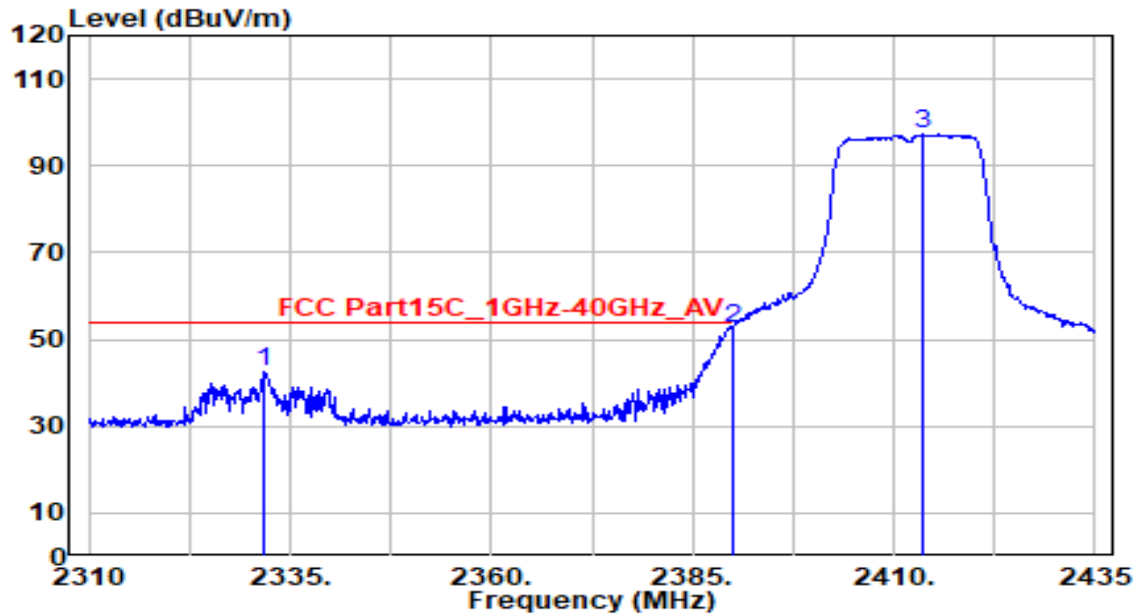


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2339.625	27.16	30.17	57.33	-16.67	74.00	150	115	Peak
2	* 2390.000	39.65	30.29	69.94	-4.06	74.00	150	115	Peak
3	2410.625	76.10	30.33	106.43	N/A	N/A	150	115	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

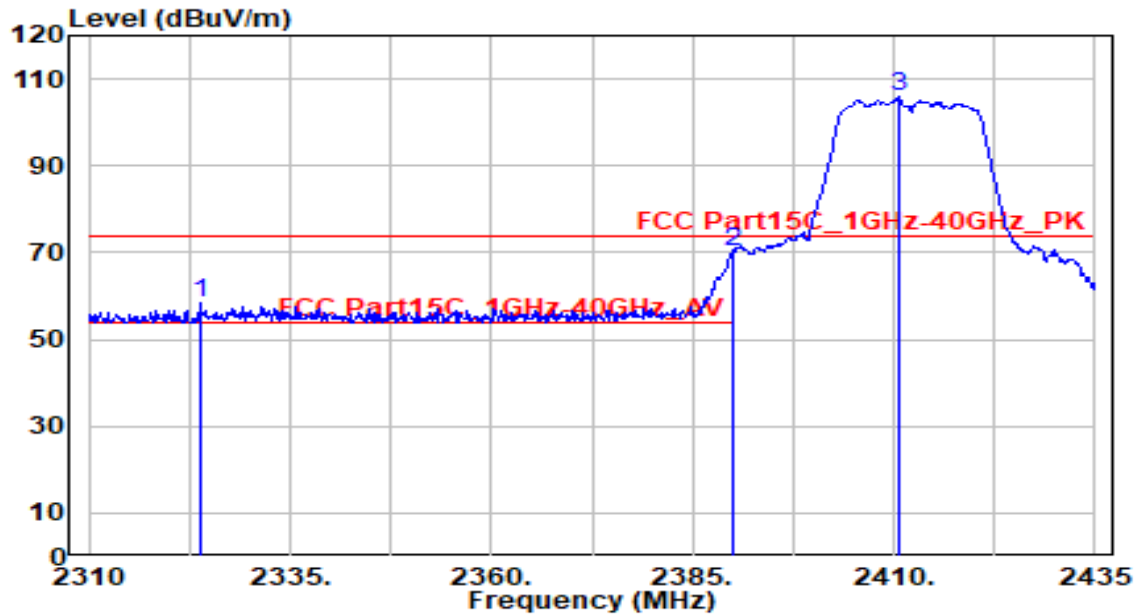


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2331.875	12.28	30.15	42.43	-11.57	54.00	150	115	Average
2	* 2390.000	22.33	30.29	52.62	-1.38	54.00	150	115	Average
3	2413.500	66.90	30.33	97.23	N/A	N/A	150	115	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

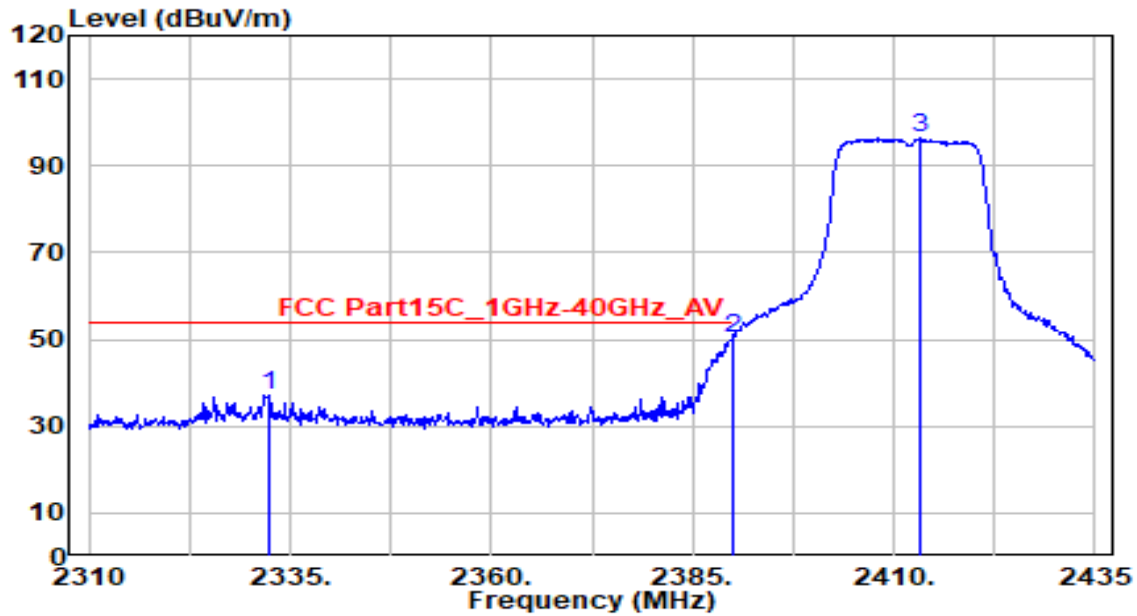


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2323.750	28.22	30.13	58.35	-15.65	74.00	150	95	Peak
2	* 2390.000	39.82	30.29	70.11	-3.89	74.00	150	95	Peak
3	2410.500	75.51	30.33	105.84	N/A	N/A	150	95	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

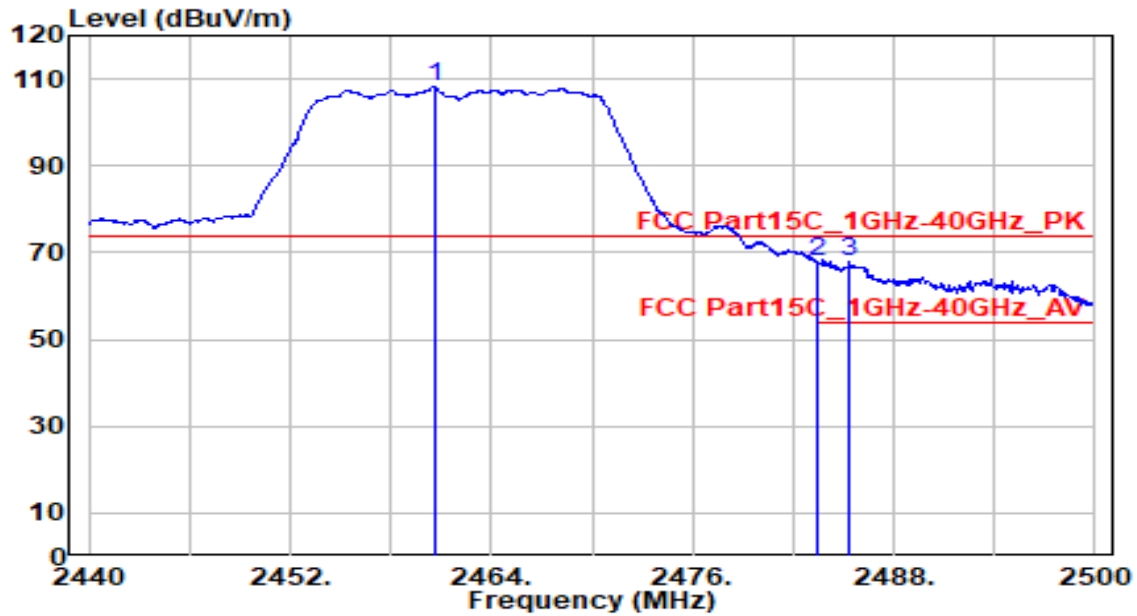


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2332.250	7.13	30.15	37.29	-16.71	54.00	150	95	Average
2	* 2390.000	19.80	30.29	50.09	-3.91	54.00	150	95	Average
3	2413.375	65.93	30.33	96.27	N/A	N/A	150	95	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

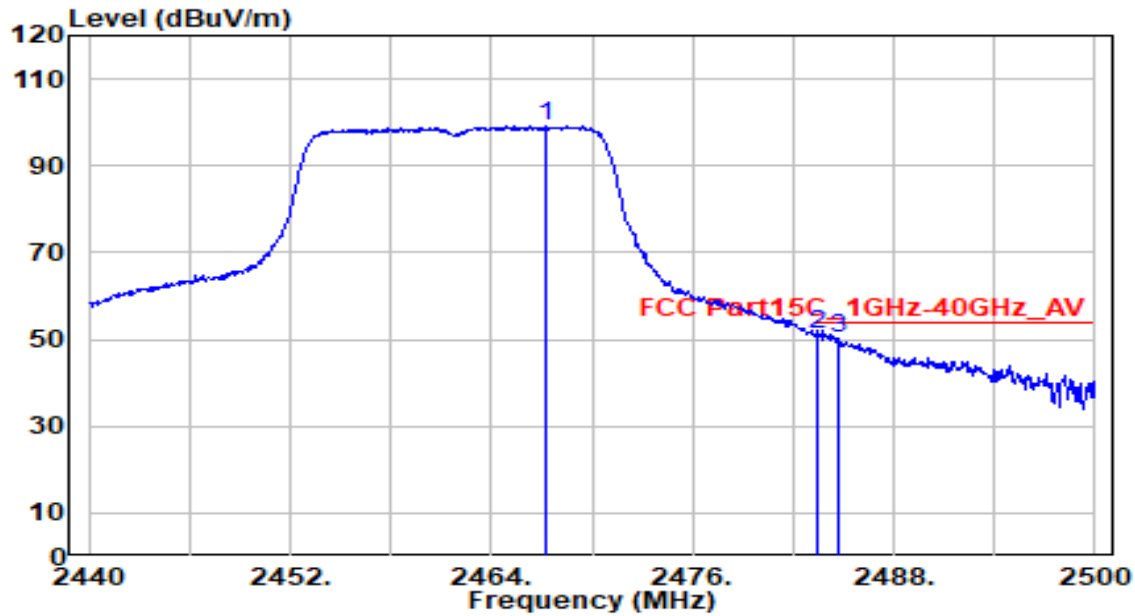


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.580	77.68	30.42	108.09	N/A	N/A	160	115	Peak
2	* 2483.500	37.31	30.46	67.77	-6.23	74.00	160	115	Peak
3	2485.360	37.29	30.46	67.75	-6.25	74.00	160	115	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

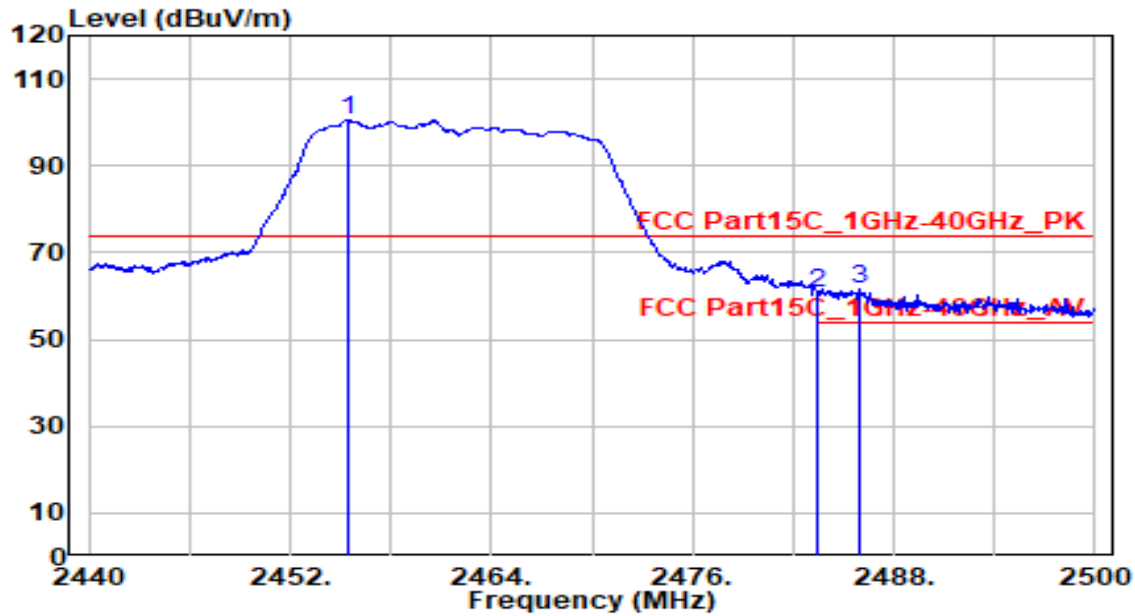


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2467.180	68.65	30.43	99.08	N/A	N/A	160	115	Average
2	* 2483.500	20.62	30.46	51.08	-2.92	54.00	160	115	Average
3	2484.760	19.74	30.46	50.20	-3.80	54.00	160	115	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

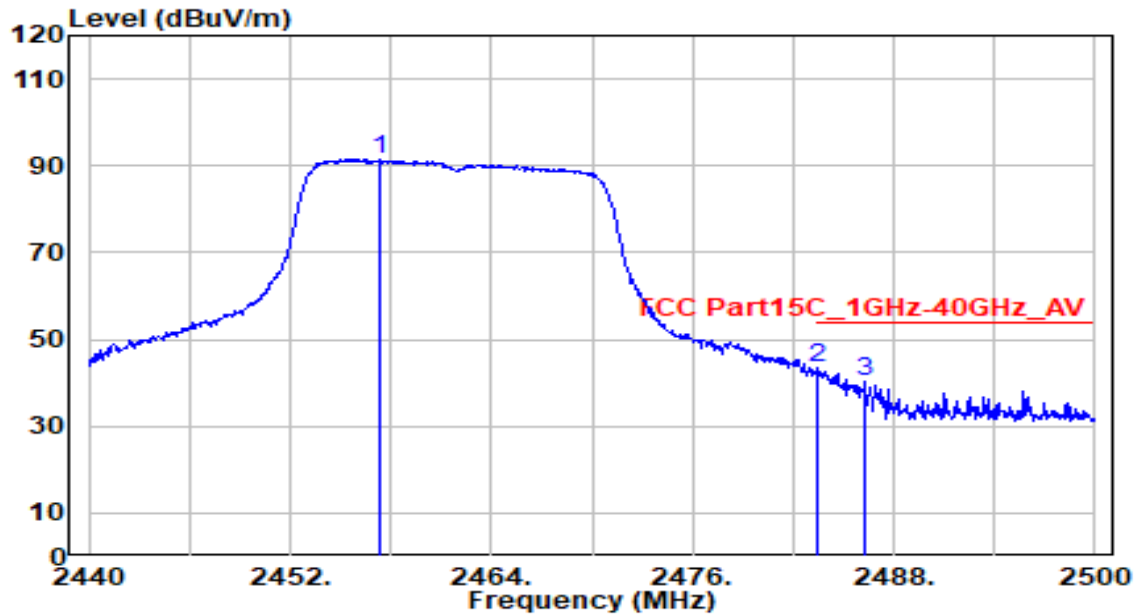


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2455.420	70.09	30.41	100.50	N/A	N/A	125	240	Peak
2	2483.500	30.12	30.46	60.58	-13.42	74.00	125	240	Peak
3	* 2485.900	30.99	30.46	61.45	-12.55	74.00	125	240	Peak

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-08
Factor	DRH18-E	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2457.340	61.12	30.41	91.53	N/A	N/A	125	240	Average
2	* 2483.500	12.84	30.46	43.31	-10.69	54.00	125	240	Average
3	2486.320	10.06	30.47	40.52	-13.48	54.00	125	240	Average

Note:

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

7.8. AC Conducted Emissions Measurement

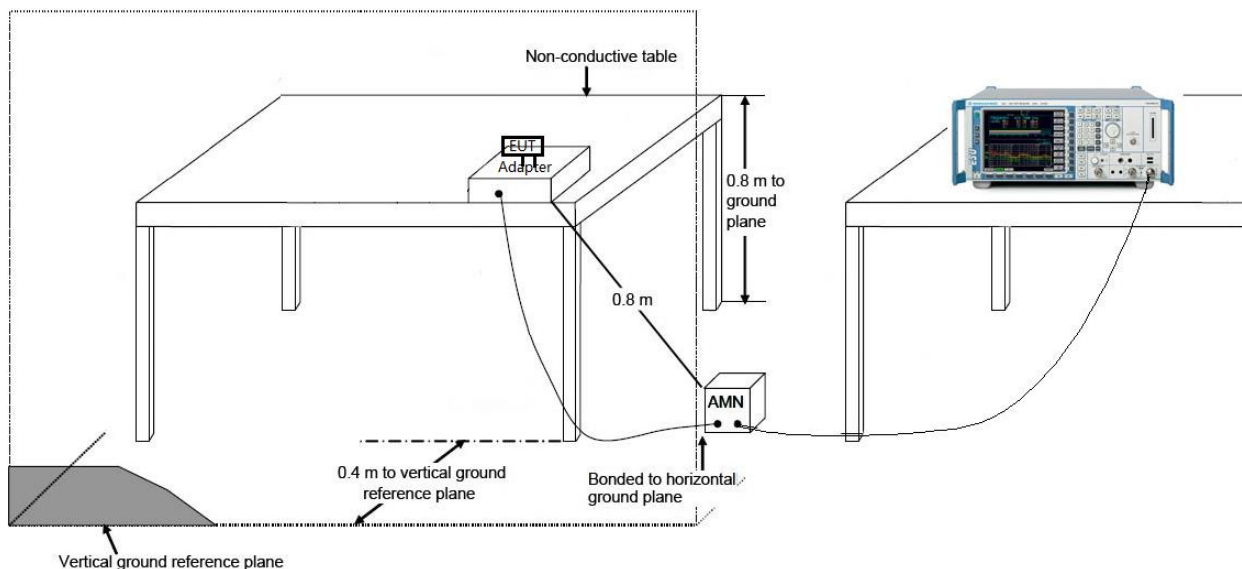
7.8.1. Test Limit

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

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

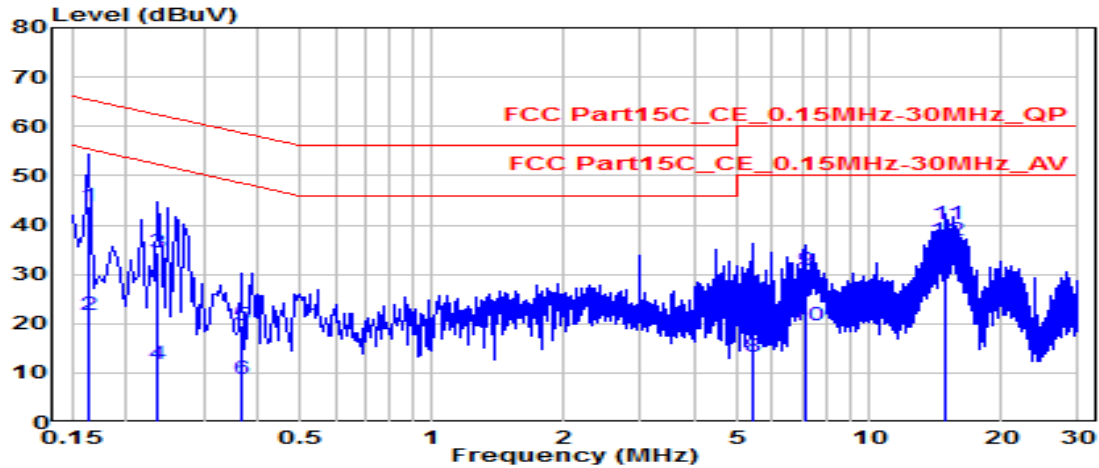
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-03
Factor	CE_ENV216-L1	Temp. / Humidity	24.6°C /68%
Polarity	Line1	Site / Test Engineer	SR2 / Dean
Test Mode	802.11n20_TX_CH6_Ant 0	Test Voltage	AC 120V/60Hz

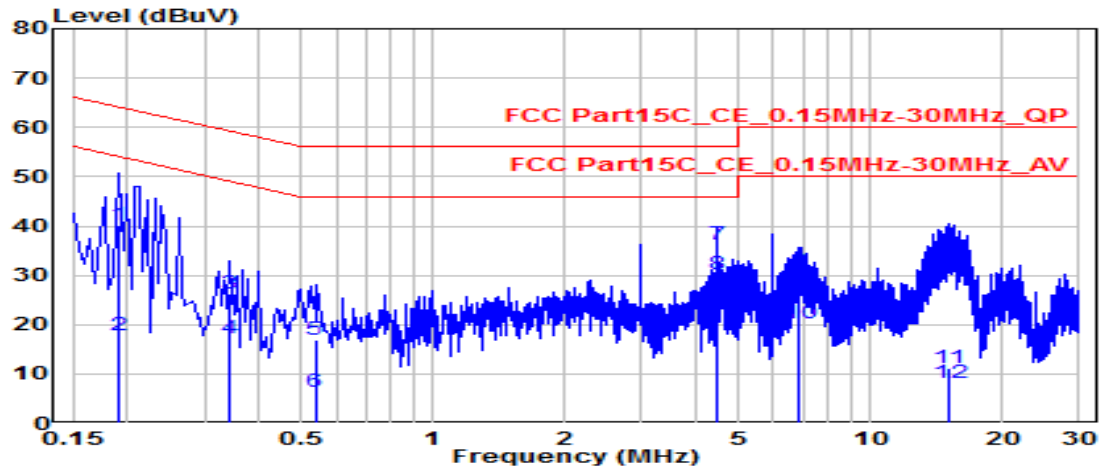


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	0.163	34.19	9.61	43.80	-21.49	65.28	QP
2	0.163	12.04	9.61	21.65	-33.63	55.28	Average
3	0.235	24.93	9.61	34.55	-27.70	62.25	QP
4	0.235	2.01	9.61	11.63	-40.63	52.25	Average
5	0.366	10.08	9.62	19.70	-38.89	58.59	QP
6	0.366	-0.84	9.62	8.78	-39.81	48.59	Average
7	5.392	14.94	9.75	24.69	-35.31	60.00	QP
8	5.392	3.40	9.75	13.15	-36.85	50.00	Average
9	7.160	21.11	9.80	30.91	-29.09	60.00	QP
10	7.160	9.81	9.80	19.61	-30.39	50.00	Average
11	* 14.999	30.15	9.92	40.07	-19.93	60.00	QP
12	* 14.999	27.00	9.92	36.92	-13.08	50.00	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-03
Factor	CE_ENV216-N	Temp. / Humidity	24.6°C /68%
Polarity	Neutral	Site / Test Engineer	SR2 / Dean
Test Mode	802.11n20_TX_CH6_Ant 0	Test Voltage	AC 120V/60Hz

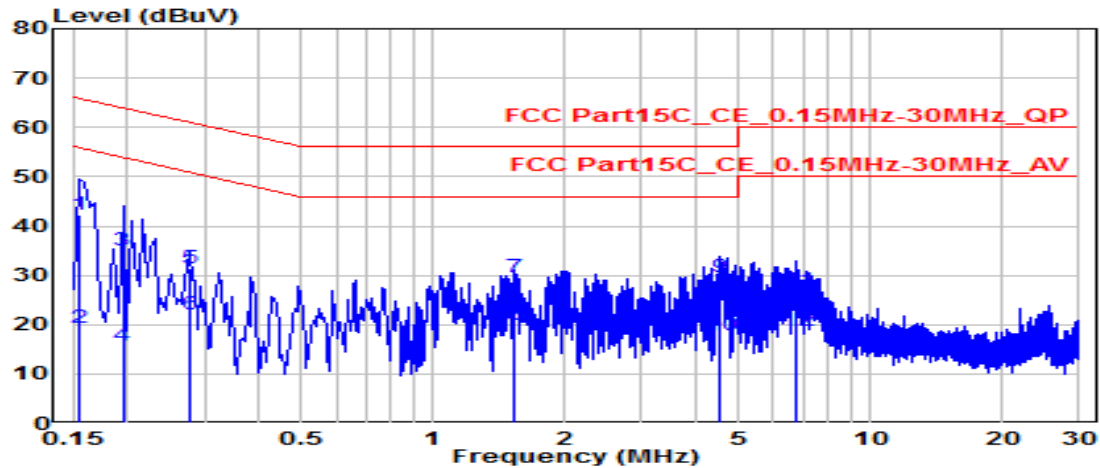


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	0.190	30.39	9.61	40.00	-24.01	64.01	QP
2	0.190	8.28	9.61	17.90	-36.12	54.01	Average
3	0.343	16.79	9.62	26.41	-32.71	59.12	QP
4	0.343	7.55	9.62	17.17	-31.95	49.12	Average
5	0.537	7.20	9.64	16.84	-39.16	56.00	QP
6	0.537	-3.26	9.64	6.37	-39.63	46.00	Average
7	* 4.474	26.49	9.74	36.23	-19.77	56.00	QP
8	* 4.474	20.59	9.74	30.33	-15.67	46.00	Average
9	6.886	21.09	9.80	30.89	-29.11	60.00	QP
10	6.886	10.37	9.80	20.18	-29.82	50.00	Average
11	15.080	1.30	9.97	11.26	-48.74	60.00	QP
12	15.080	-1.89	9.97	8.08	-41.92	50.00	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-03
Factor	CE_ENV216-L1	Temp. / Humidity	24.6°C /68%
Polarity	Line1	Site / Test Engineer	SR2 / Dean
Test Mode	802.11n20_TX_CH6_Ant 0	Test Voltage	AC 240V/60Hz

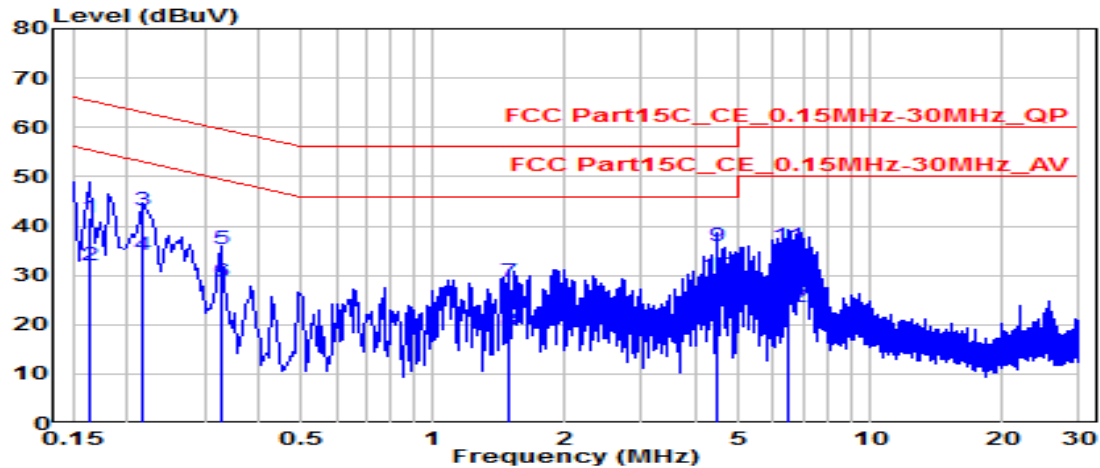


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.154	32.58	9.61	42.19	-23.56	65.75	QP
2	*	0.154	9.75	9.61	19.36	-36.40	55.75	Average
3		0.195	25.40	9.61	35.01	-28.81	63.82	QP
4		0.195	6.23	9.61	15.85	-37.97	53.82	Average
5		0.276	21.71	9.62	31.33	-29.61	60.94	QP
6		0.276	12.42	9.62	22.04	-28.89	50.94	Average
7		1.540	19.84	9.68	29.52	-26.48	56.00	QP
8		1.540	10.13	9.68	19.80	-26.20	46.00	Average
9		4.497	19.75	9.73	29.47	-26.53	56.00	QP
10		4.497	8.01	9.73	17.74	-28.26	46.00	Average
11		6.778	17.17	9.79	26.96	-33.04	60.00	QP
12		6.778	8.96	9.79	18.74	-31.26	50.00	Average

Note:

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

EUT	VS80 VIDEOSCOPE	Date of Test	2021-11-03
Factor	CE_ENV216-N	Temp. / Humidity	24.6°C /68%
Polarity	Neutral	Site / Test Engineer	SR2 / Dean
Test Mode	802.11n20_TX_CH6_Ant 0	Test Voltage	AC 240V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	0.163	32.06	9.62	41.68	-23.60	65.28	QP
2	0.163	22.23	9.62	31.85	-23.43	55.28	Average
3	0.217	33.51	9.61	43.13	-19.79	62.91	QP
4	0.217	24.36	9.61	33.97	-18.94	52.91	Average
5	0.330	25.80	9.62	35.42	-24.03	59.45	QP
6	0.330	19.00	9.62	28.62	-20.83	49.45	Average
7	1.491	18.93	9.68	28.61	-27.39	56.00	QP
8	1.491	9.16	9.68	18.83	-27.17	46.00	Average
9	*	4.470	9.74	35.85	-20.15	56.00	QP
10	*	4.470	9.74	29.92	-16.08	46.00	Average
11	6.481	26.19	9.79	35.98	-24.02	60.00	QP
12	6.481	13.61	9.79	23.41	-26.59	50.00	Average

Note:

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

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **VS80 VIDEOSCOPE** is in compliance with Part 15C of the FCC Rules.

_____ The End _____