

## RF Test Report

Applicant : ELPRO Technologies Pty Ltd

Product Name : Radio Module

Trade Name : VIZMONET

Model Number : EL-2201

Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013

Received Date : Dec. 13, 2022

Test Period : Dec. 19, 2022 ~ Jan. 07, 2023

Issued Date : Mar. 01, 2023

### Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City 334025, Taiwan (R.O.C.)  
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330

Frequency Range: 9 kHz to 325 GHz (Bade test site)

Frequency Range: 9 kHz to 40 GHz (Wugu test site)

Test Firm MRA designation number: TW0010

#### Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
2. This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

### Revision History

Version	Issued Date	Revisions	Revised By
00	Feb. 22, 2023	Initial Issue	Nicole Chu
01	Mar. 01, 2023	Update Appendix A chapter (P.5)	Nicole Chu

## Verification of Compliance

Applicant : ELPRO Technologies Pty Ltd

Product Name : Radio Module

Trade Name : VIZMONET

Model Number : EL-2201

FCC ID : O9P-EL2201

Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013

Test Result : Complied

Performing Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City 334025, Taiwan (R.O.C.)  
Tel : +886-3-2710188 / Fax : +886-3-2710190  
Taiwan Accreditation Foundation accreditation number: 1330



Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : \_\_\_\_\_

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## 1 General Information

### 1.1. Summary of Test Result

Standard	Item	Result	Remark
15.207	AC Power Conducted Emission	PASS	----
15.247(d)	Transmitter Radiated Emissions	PASS	----
15.247(b)(3)	Max. Output Power	PASS	----
15.247(a)(2)	6 dB RF Bandwidth	PASS	----
15.247(e)	Power Spectral Density	PASS	----
15.247(d)	Out of Band Conducted Spurious Emission	PASS	----
15.203	Antenna Requirement	PASS	----

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

#### Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

### 1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address:  No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)

Site Address:  No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

### 1.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB
Radiated Emission	9 kHz ~ 30 MHz	2.2 dB
	30 MHz ~ 1000 MHz	5.1 dB
	1000 MHz ~ 18000 MHz	5.2 dB
	18000 MHz ~ 26500 MHz	4.6 dB
	26500 MHz ~ 40000 MHz	4.6 dB
Conducted Output Power	1.1 dB	
RF Bandwidth	4.7 %	
Power Spectral Density	1.1 dB	

## 2 EUT Description

Applicant	ELPRO Technologies Pty Ltd 29 Lathe St, Virginia, QLD, 4014, Australia			
Product Name	Radio Module			
Trade Name	VIZMONET			
Model No.	EL-2201			
FCC ID	O9P-EL2201			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate (ns)
802.11b_20M	912 ~ 917	CCK	20 MHz	Up to 1 Mbps
802.11g_20M	912 ~ 917	BPSK	20 MHz	Up to 6 Mbps
802.11g_10M	907 ~ 922	BPSK	10 MHz	Up to 6 Mbps
802.11g_5M	907 ~ 922	BPSK	5 MHz	Up to 6 Mbps
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	ANT-0	EL-SG900	OMNI	8.15
Operate Temp. Range	-20 ~ +70 °C			
EUT Power Rating	DC 3.3 V			

Frequency Band	Max. RF Output Power (W)
802.11b 20M	0.344
802.11g 20M	0.566
802.11g 10M	0.573
802.11g 5M	0.582

### 3 Test Methodology

#### 3.1. Mode of Operation

Decision of Test Eurofins has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	Final-Test Mode
Transmit Mode	V
802.11b 20M	V
802.11g 20M	V
802.11g 10M	V
802.11g 5M	V

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %.

Test Mode	ANT-0
802.11b 20M	V
802.11g 20M	V
802.11g 10M	V
802.11g 5M	V

Test Mode	Antenna Delivery	Data Rate (Mbps)
802.11b 20M	1TX (Only)	1
802.11g 20M	1TX (Only)	6
802.11g 10M	1TX (Only)	6
802.11g 5M	1TX (Only)	6

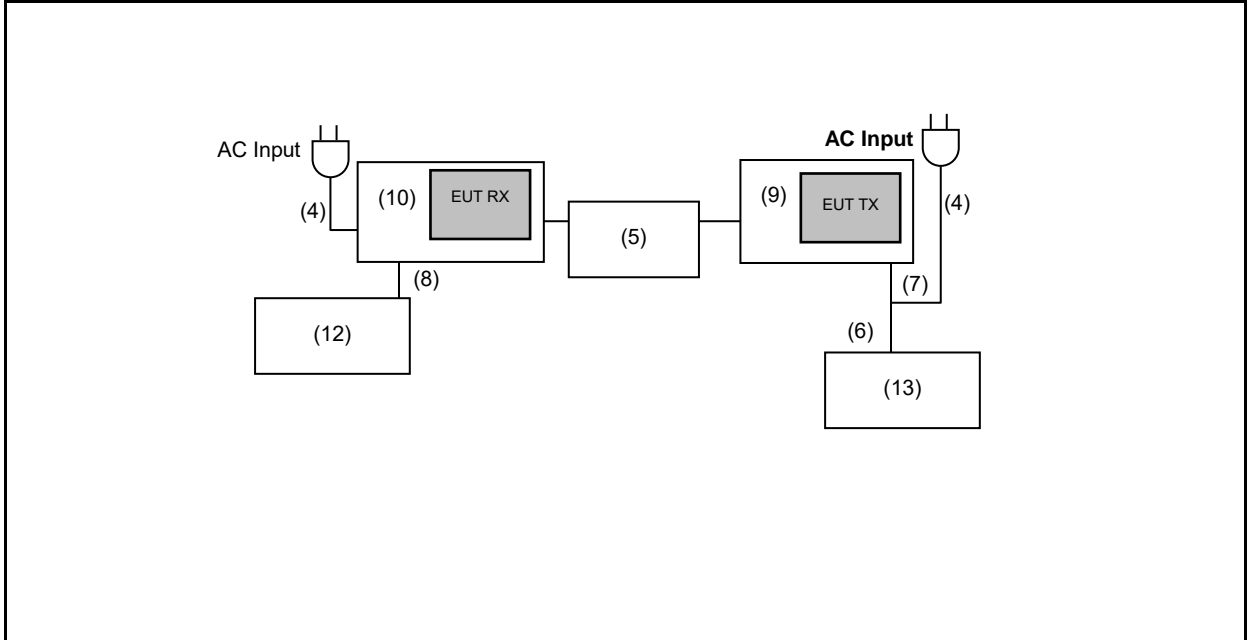


### 3.2. EUT Test Step

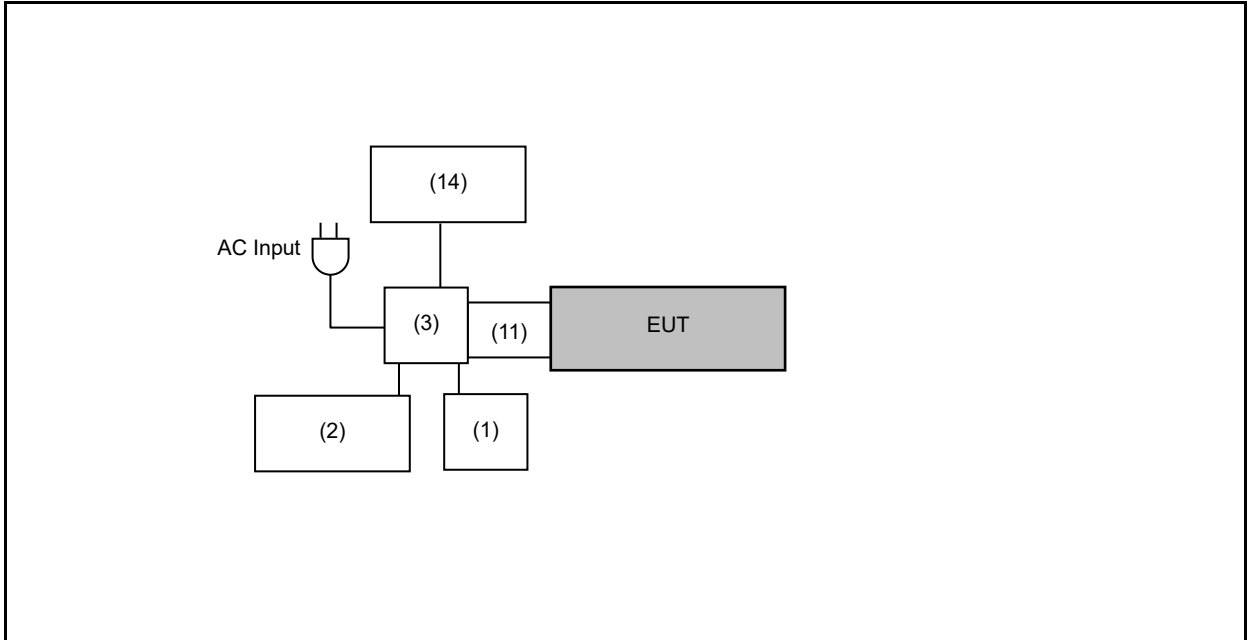
1	Setup the EUT shown on "Configuration of Test System Details".
2	Turn on the power of all equipment.
3	Setup Continuous TX
4	EUT run test program.

### 3.3. Configuration of Test System Details

Conduction Emission & Radiated Emission (Below 1 GHz)



Radiated Emission (Above 1 GHz)



	Product	Manufacturer	Model Number
(1)	Mouse	HP	---
(2)	keyboard	DELL	SK-8110
(3)	PC	VIZMONET	001
(4)	Adapter	RS	CGSW65-240-2500I
(5)	Power Splitter	Mini-Circuits	ZN2PD2-14W-S+
(6)	Data + Powr Cable	VIZMONET	---
(7)	LAN Cable	VIZMONET	---
(8)	LAN Cable	VIZMONET	---
(9)	Fixture	VIZMONET	---
(10)	Fixture	VIZMONET	---
(11)	Fixture	VIZMONET	---
(12)	Notebook	DELL	LATITUDE E5440
(13)	Notebook	HP	440G1
(14)	Monitor	ASUS	---

### 3.4. Test Instruments

For Conducted Emission  
 Test Period: Jan. 07, 2023  
 Testing Engineer: Jayson Hsieh

Test Site		Conduction01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESCI	100367	May 19, 2022	1 year
<input type="checkbox"/>	Test Receiver	R&S	ESCI	100722	Nov. 02, 2022	1 year
<input type="checkbox"/>	Test Receiver	R&S	ESCI	101000	Nov. 23, 2022	1 year
<input checked="" type="checkbox"/>	LISN	R&S	ENV216	101040	Apr. 06, 2022	1 year
<input checked="" type="checkbox"/>	LISN	R&S	ENV216	101140	Jan. 25, 2022	1 year
<input checked="" type="checkbox"/>	RF Cable	Woken	00100D1380194M	TE-02-03	May 27, 2022	1 year
<input checked="" type="checkbox"/>	Software	EZ EMC	1.1.4.3	N/A	N.C.R.	---

For Conducted  
 Test Period: Dec. 23 ~ Dec. 26, 2022  
 Testing Engineer: John Chen

Test Site		RF01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input type="checkbox"/>	Power Sensor	Anritsu	MA2411B	1126022	Sep. 04, 2022	1 year
<input type="checkbox"/>	Power Meter	Anritsu	ML2495A	1135009	Sep. 04, 2022	1 year
<input checked="" type="checkbox"/>	Power Sensor	Agilent	N1921A	MY45241957	Nov. 30, 2022	1 year
<input checked="" type="checkbox"/>	Power Meter	Agilent	N1911A	MY45101619	Nov. 30, 2022	1 year
<input type="checkbox"/>	Spectrum Analyzer (10 Hz~26.5 GHz)	Keysight	N9010B	MY59071418	Mar. 16, 2022	1 year
<input type="checkbox"/>	Spectrum Analyzer (9 kHz~26.5 GHz)	Agilent	N9010A	MY48030518	Jul. 21, 2022	1 year
<input type="checkbox"/>	Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	Sep. 01, 2022	1 year
<input checked="" type="checkbox"/>	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Jan. 05, 2022	1 year
<input type="checkbox"/>	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 28, 2022	1 year

Note: N.C.R. = No Calibration Request.

For Radiated Emissions

Test Period: Dec. 19, 2022 ~ Jan. 06, 2023

Testing Engineer: Hung Chou

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input type="checkbox"/>	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	Jan. 13, 2022	1 year
<input type="checkbox"/>	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Jan. 05, 2022	1 year
<input type="checkbox"/>	Spectrum Analyzer (2 Hz~50 GHz)	Keysight	N9030B	MY57143537	Apr. 14, 2022	1 year
<input checked="" type="checkbox"/>	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Feb. 27, 2022	1 year
<input checked="" type="checkbox"/>	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 14, 2022	1 year
<input type="checkbox"/>	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	Jul. 07, 2022	1 year
<input type="checkbox"/>	Broadband Amplifier (100 kHz~1 GHz)	Titan	T0910E00014330 A1F	001	Jul. 21, 2022	1 year
<input checked="" type="checkbox"/>	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025 A1F	002	Jul. 21, 2022	1 year
<input type="checkbox"/>	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 02, 2022	1 year
<input type="checkbox"/>	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 28, 2022	1 year
<input type="checkbox"/>	Active Loop Antenna (9 kHz~30 MHz)	Schwarzbeck Mess-Elektronik	FMZB 1513-60	1513-60-031	Feb. 17, 2022	1 year
<input checked="" type="checkbox"/>	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jul. 22, 2022	1 year
<input type="checkbox"/>	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Nov. 19, 2022	1 year
<input checked="" type="checkbox"/>	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 13, 2022	1 year
<input type="checkbox"/>	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Aug. 25, 2022	1 year
<input type="checkbox"/>	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Aug. 25, 2022	1 year
<input type="checkbox"/>	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 05, 2022	1 year

Note: N.C.R. = No Calibration Request.

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input type="checkbox"/>	RF Cable	EMCI	EMC104-N-N-6000	TE01-1	Feb. 18, 2022	1 year
<input type="checkbox"/>	Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	Feb. 18, 2022	1 year
<input type="checkbox"/>	Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	Feb. 18, 2022	1 year
<input checked="" type="checkbox"/>	Coaxial Cable	Titan	T0710AT327A10A100	J11005	Aug. 04, 2022	1 year
<input checked="" type="checkbox"/>	Coaxial Cable	Titan	T0710AT327A10A900	J11004	Aug. 04, 2022	1 year
<input checked="" type="checkbox"/>	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 04, 2022	1 year
<input type="checkbox"/>	Bluetooth Tester	R&S	CBT	100350	Mar. 17, 2021	2 years
<input type="checkbox"/>	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 01, 2022	1 year
<input type="checkbox"/>	Power Supply	KEITHLEY	2303	4045290	Jan. 19, 2022	1 year
<input checked="" type="checkbox"/>	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request.

### 3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

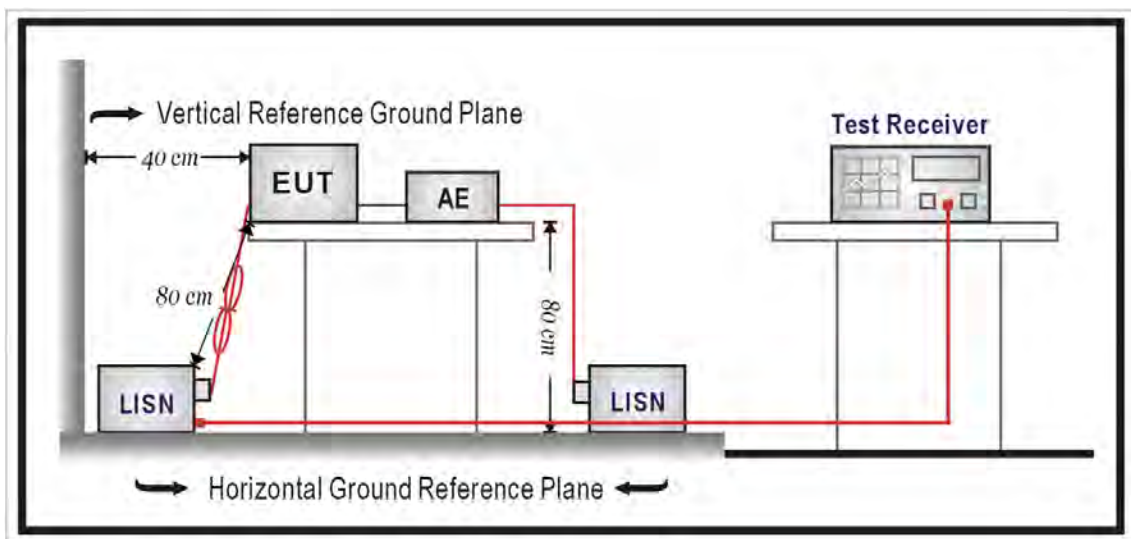
## 4 Measurement Procedure

### 4.1. AC Power Line Conducted Emission Measurement

#### ■ Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

#### ■ Test Setup



## ■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a  $50 \Omega // 50 \mu\text{H}$  coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a  $50 \Omega // 50 \mu\text{H}$  coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All  $50 \Omega$  ports of the LISN shall be resistively terminated into  $50 \Omega$  loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.



## 4.2. Radiated Emission Measurement

### ■ Limit

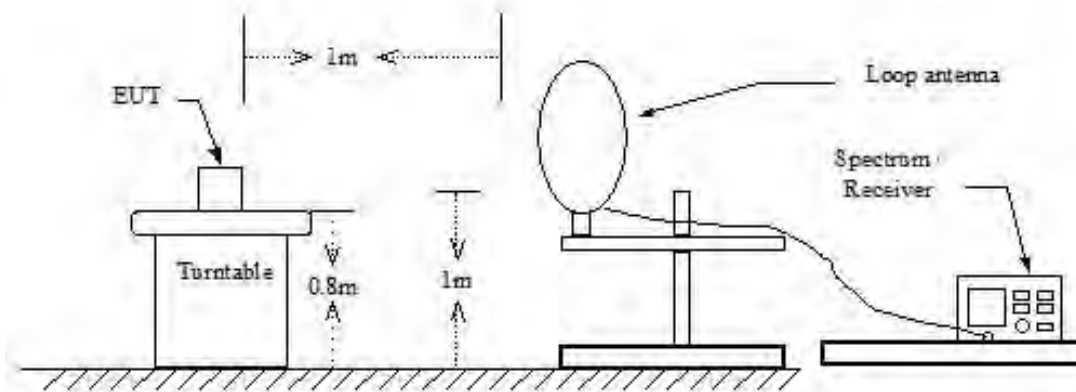
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ at meter)	Measurement Distance (meters)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

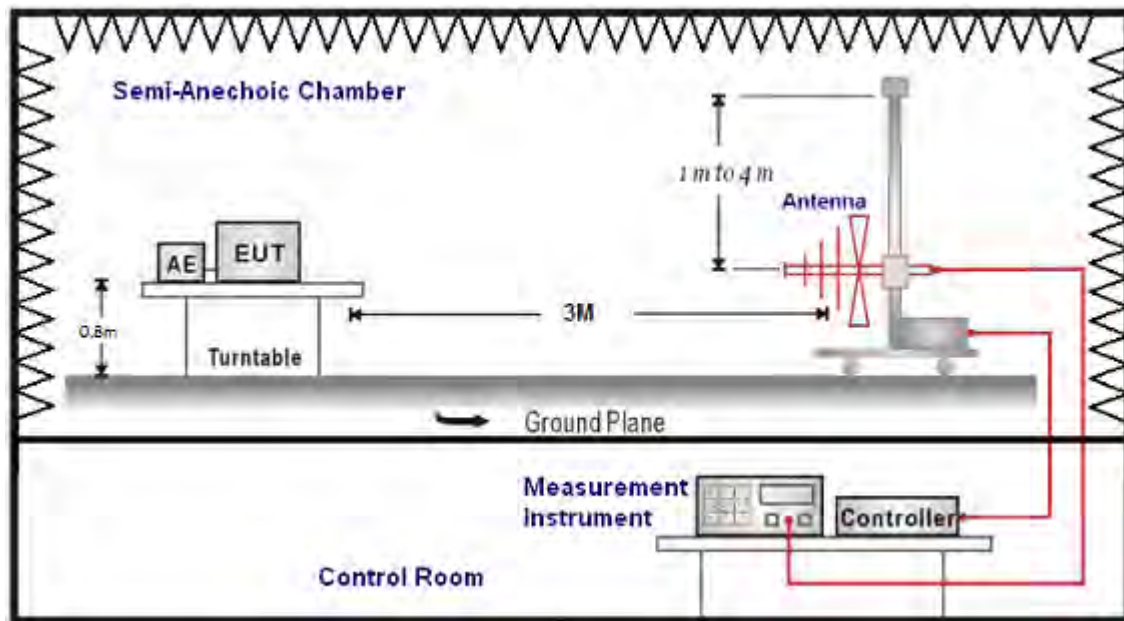
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

■ Setup

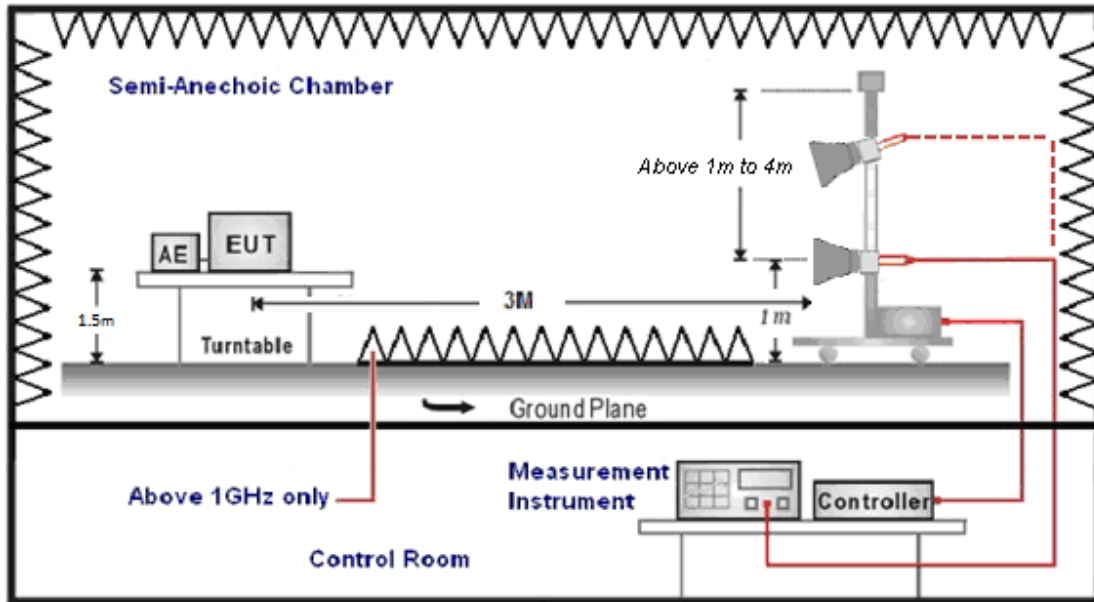
9 kHz ~ 30 MHz



Below 1 GHz



Above 1 GHz



## ■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle >98 % / 1/T for average measurements when Duty cycle <98 %. A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30 dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

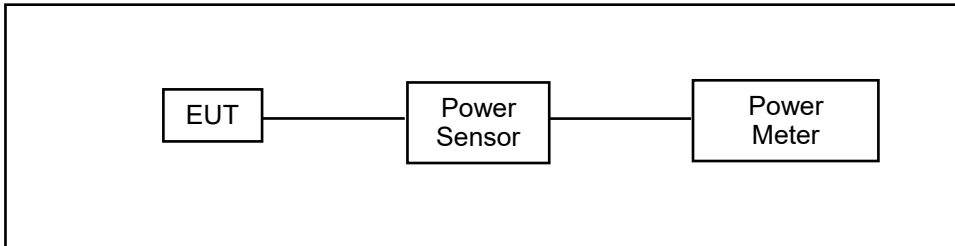
Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

### 4.3. Maximum Conducted Output Power Measurement

■ **Limit**

For systems using digital modulation in the 902–928 MHz, the limit for peak output power is 30 dBm.

■ **Test Setup**



■ **Test Procedure**

The tests below are run with the EUT's transmitter set at high power in Transmit mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

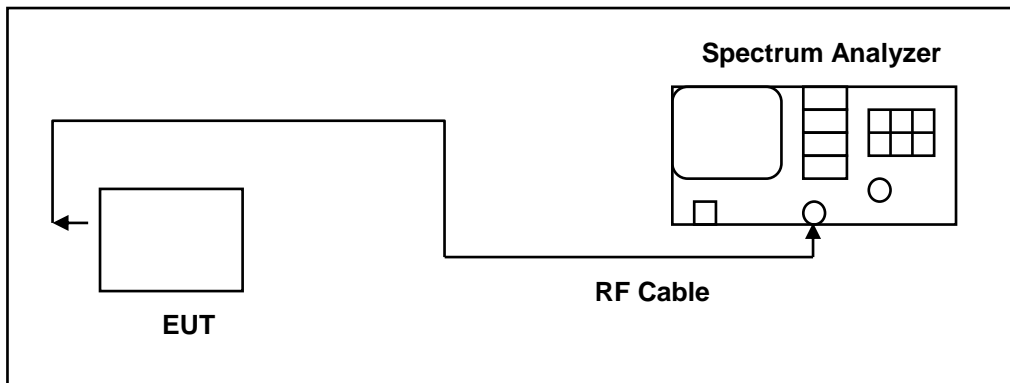
#### 4.4. 6 dB RF Bandwidth Measurement

##### ■ Limit

6 dB RF Bandwidth: Systems using digital modulation techniques may operate in the 902–928 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth: N/A

##### ■ Test Setup



##### ■ Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.8.2 option2 for compliance to FCC 47CFR 15.247 requirements.

6 dB RF Bandwidth: The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

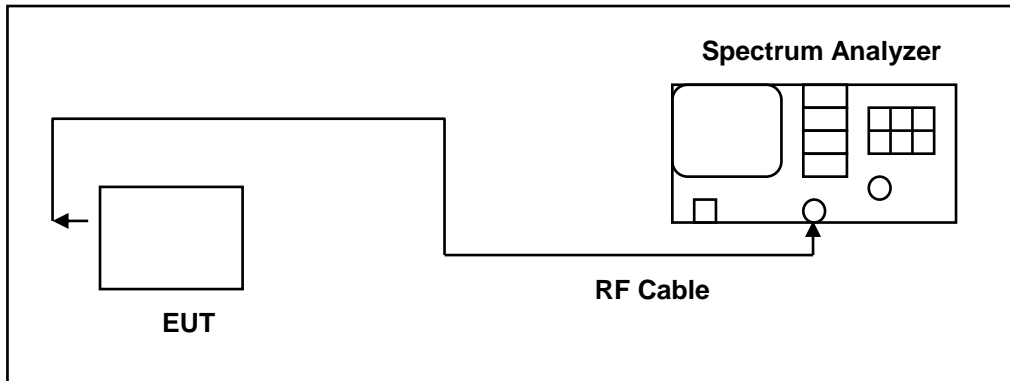
The test was performed at 3 channels (Channel low, middle, high)

## 4.5. Maximum Power Density Measurement

### ■ Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### ■ Test Setup



### ■ Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.10.2 for compliance to FCC 47CFR 15.247 requirements.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

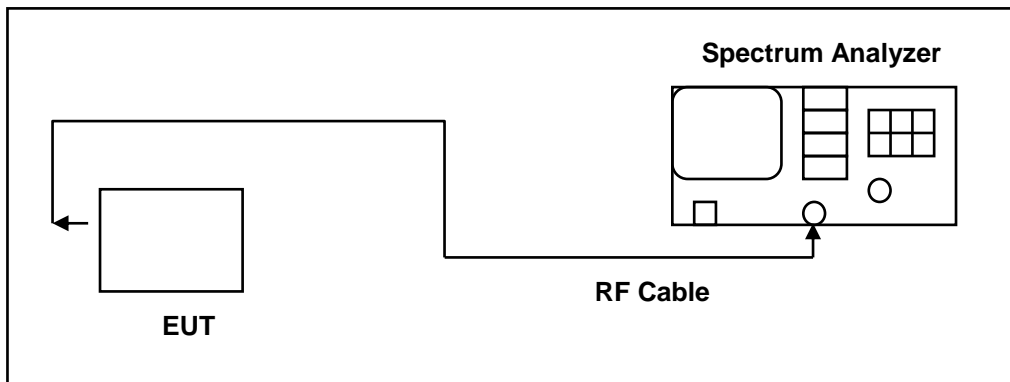


## 4.6. Out of Band Conducted Emissions Measurement

### ■ 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

### ■ Test Setup



### ■ Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band.

The test was performed at 3 channels.

## 4.7. Antenna Measurement

### ■ Limit

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test mode	Data Rate	Transmission Type	Antenna	Max Gain for Power	Max Gain for PSD	Power Limit Reduction	PSD Limit Reduction
			Ant-0 (dBi)	(dBi)	(dBi)	(dB)	(dB)
802.11b	20M	Ant-0	8.15	8.15	8.15	2.15	2.15
802.11g	20M	Ant-0	8.15	8.15	8.15	2.15	2.15
802.11g	10M	Ant-0	8.15	8.15	8.15	2.15	2.15
802.11g	5M	Ant-0	8.15	8.15	8.15	2.15	2.15

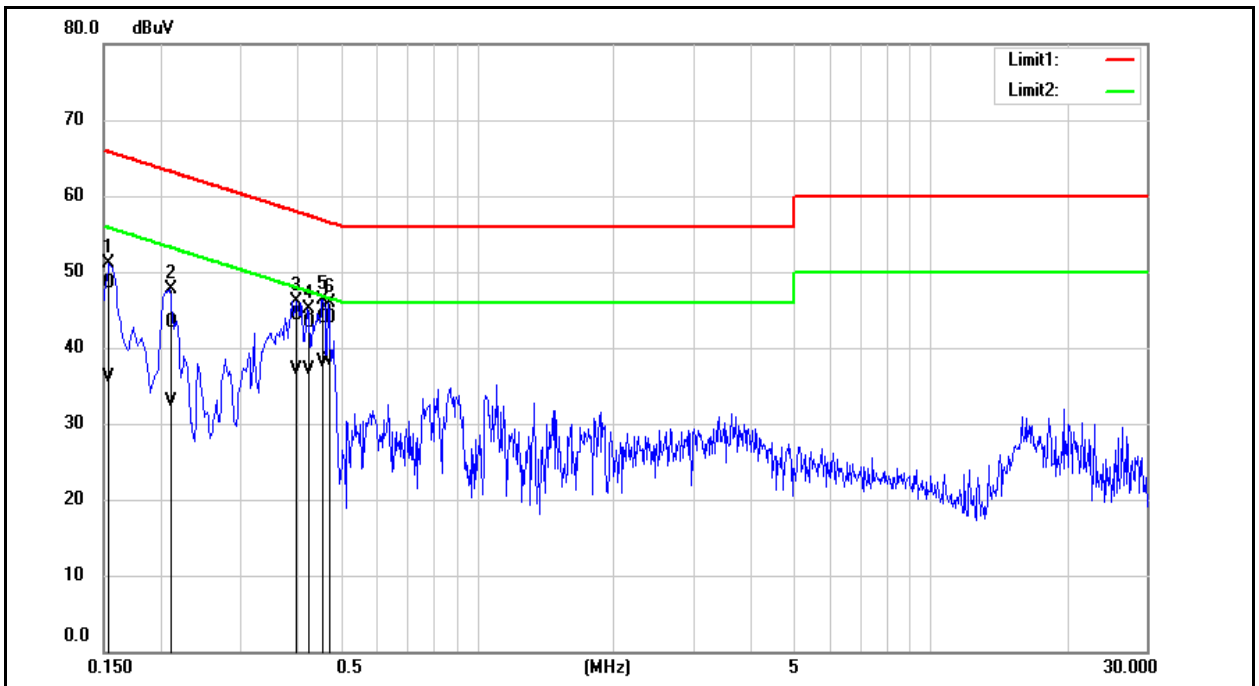
### ■ Antenna Connector Construction

See section 2 – antenna information.

## 5 Test Results

### 5.1 Conducted Emission

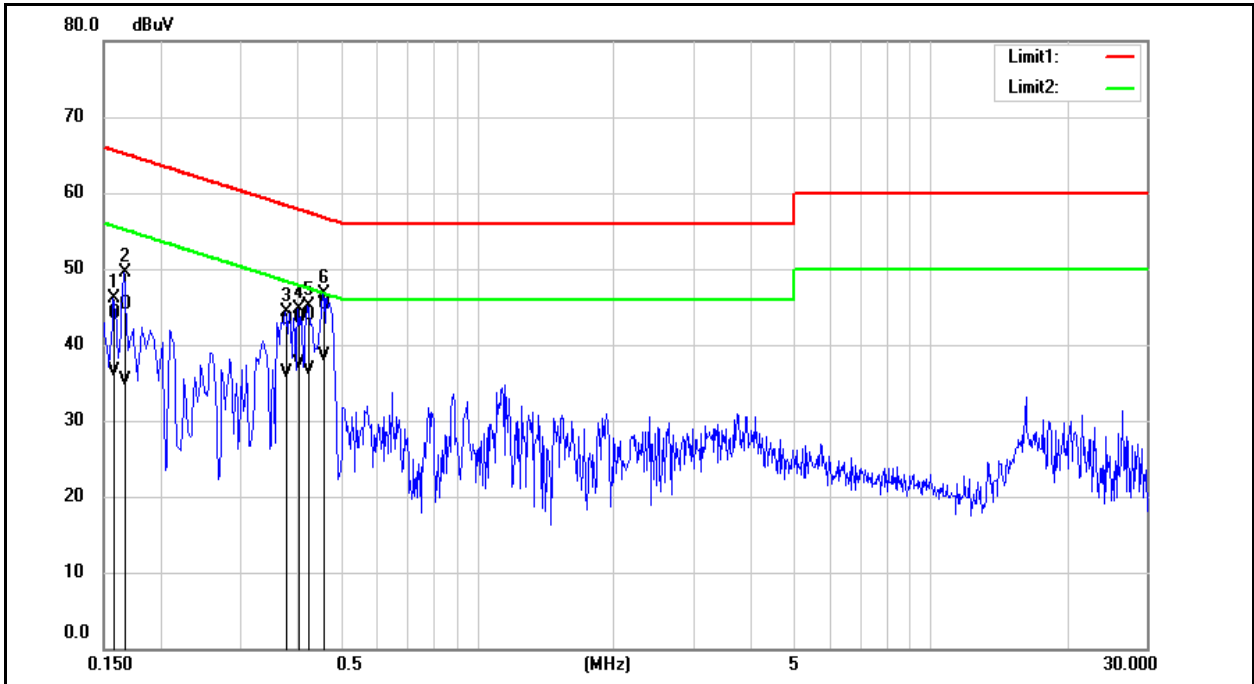
Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	39.03	26.58	9.54	48.57	36.12	65.78	55.78	-17.21	-19.66	Pass
2	0.2100	33.85	23.41	9.54	43.39	32.95	63.21	53.21	-19.82	-20.26	Pass
3	0.3980	34.78	27.54	9.55	44.33	37.09	57.90	47.90	-13.57	-10.81	Pass
4	0.4220	33.80	27.53	9.55	43.35	37.08	57.41	47.41	-14.06	-10.33	Pass
5	0.4540	34.44	28.50	9.55	43.99	38.05	56.80	46.80	-12.81	-8.75	Pass
6	0.4700	34.44	28.69	9.55	43.99	38.24	56.51	46.51	-12.52	-8.27	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).  
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.247	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	34.49	26.96	9.60	44.09	36.56	65.57	55.57	-21.48	-19.01	Pass
2	0.1660	35.78	25.80	9.60	45.38	35.40	65.16	55.16	-19.78	-19.76	Pass
3	0.3780	33.66	26.64	9.61	43.27	36.25	58.32	48.32	-15.05	-12.07	Pass
4	0.4020	33.88	27.99	9.61	43.49	37.60	57.81	47.81	-14.32	-10.21	Pass
5	0.4220	34.28	27.17	9.61	43.89	36.78	57.41	47.41	-13.52	-10.63	Pass
6	0.4580	35.71	28.83	9.61	45.32	38.44	56.73	46.73	-11.41	-8.29	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).  
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

## 5.2 Conducted Test Results

**Maximum Conducted Output Power Measurement** : See to the Appendix A. Test Result

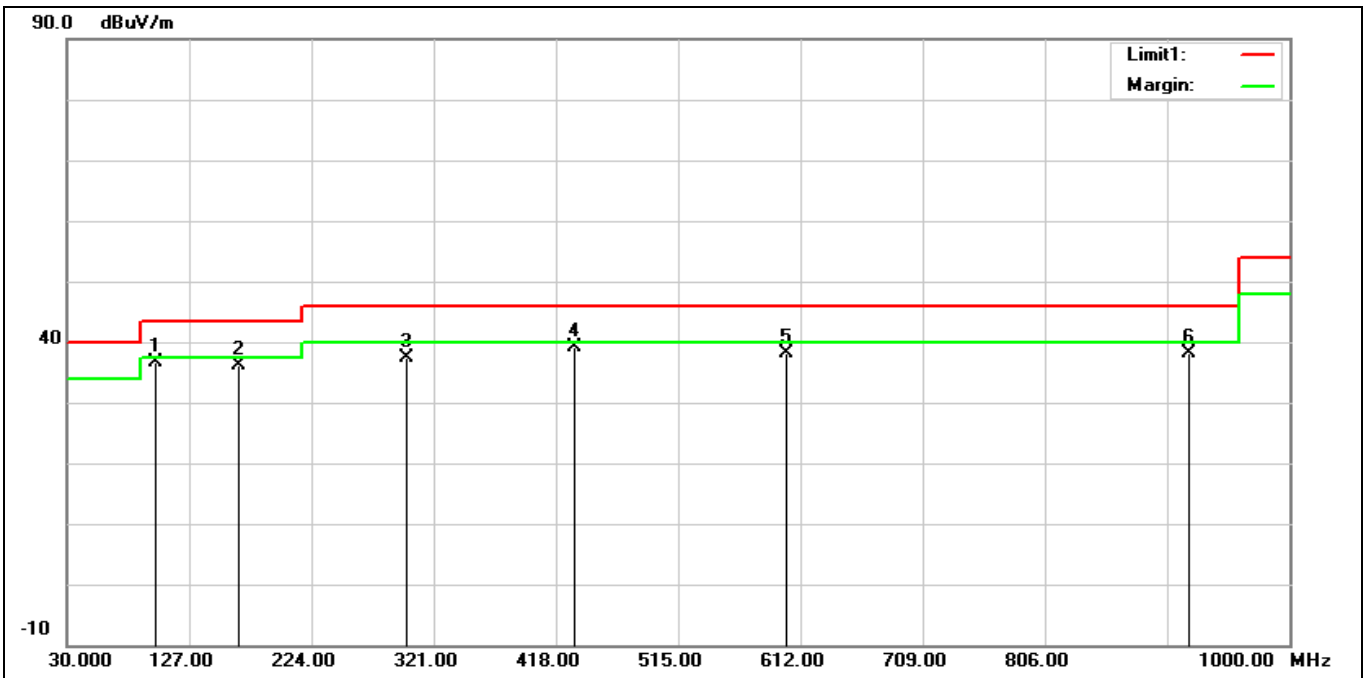
**6 dB RF Bandwidth Measurement** : See to the Appendix A. Test Result

**Maximum Power Density Measurement:** See to the Appendix A. Test Result

### 5.3 Radiated Emission Measurement

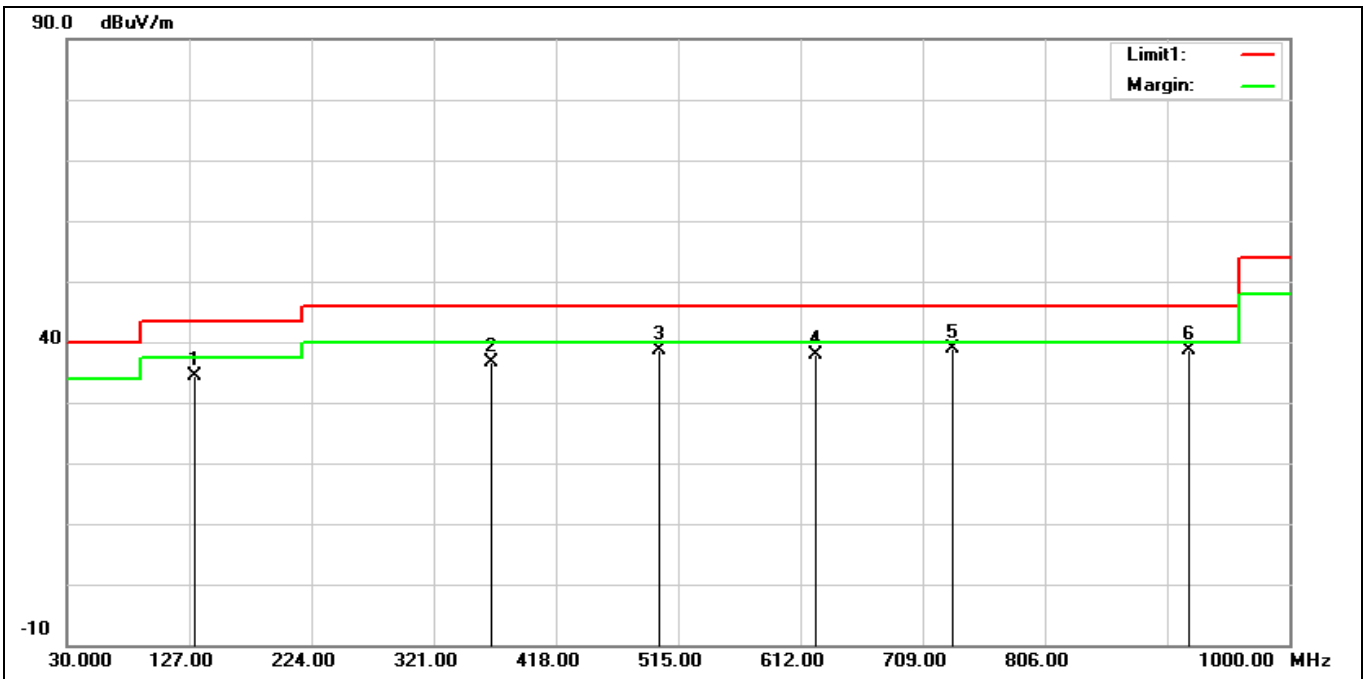
Below 1 GHz

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	99.8400	65.54	-28.91	36.63	43.50	-6.87	QP
2	166.7700	60.09	-23.94	36.15	43.50	-7.35	QP
3	299.6600	60.36	-23.09	37.27	46.00	-8.73	QP
4	432.5500	58.41	-19.38	39.03	46.00	-6.97	QP
5	600.3600	53.88	-15.70	38.18	46.00	-7.82	QP
6	920.4600	48.82	-10.73	38.09	46.00	-7.91	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:			

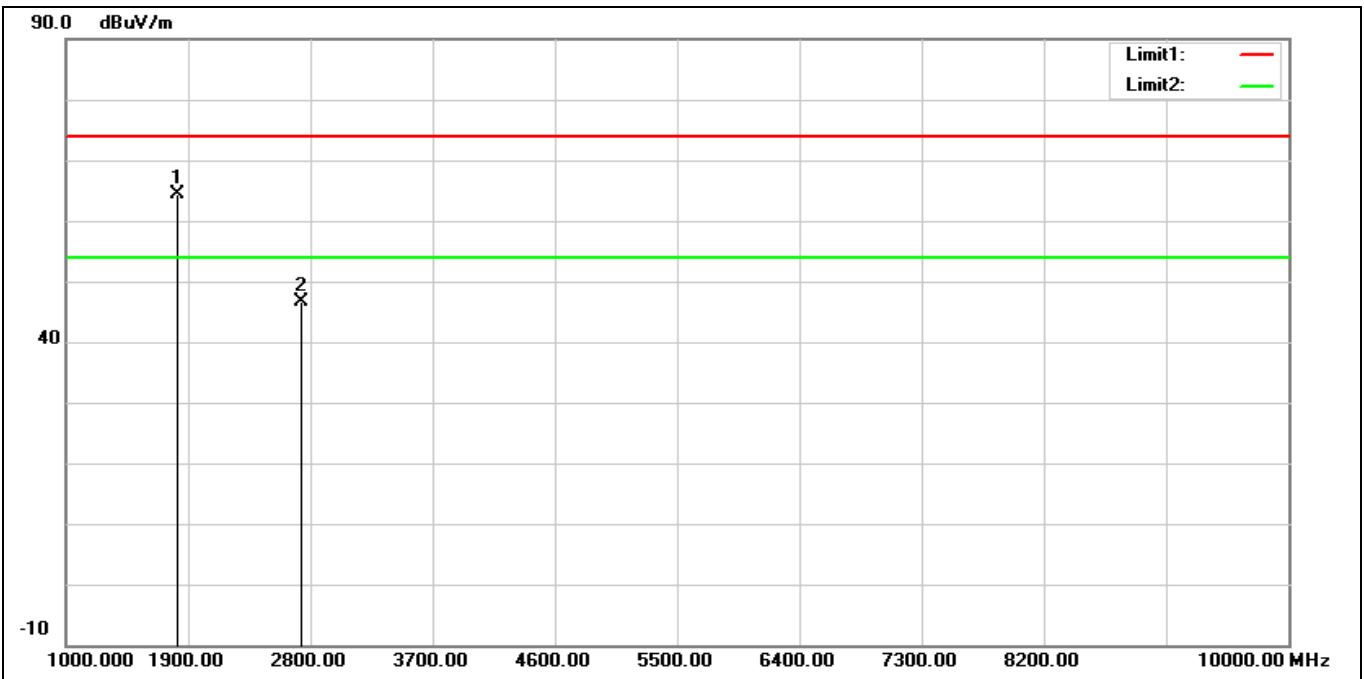


No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	131.8500	59.83	-25.46	34.37	43.50	-9.13	QP
2	366.5900	57.86	-21.21	36.65	46.00	-9.35	QP
3	500.4500	56.64	-18.00	38.64	46.00	-7.36	QP
4	624.6100	53.55	-15.63	37.92	46.00	-8.08	QP
5*	733.2500	52.46	-13.65	38.81	46.00	-7.19	QP
6	920.4600	49.48	-10.73	38.75	46.00	-7.25	QP

**Harmonic**

Above 1 GHz

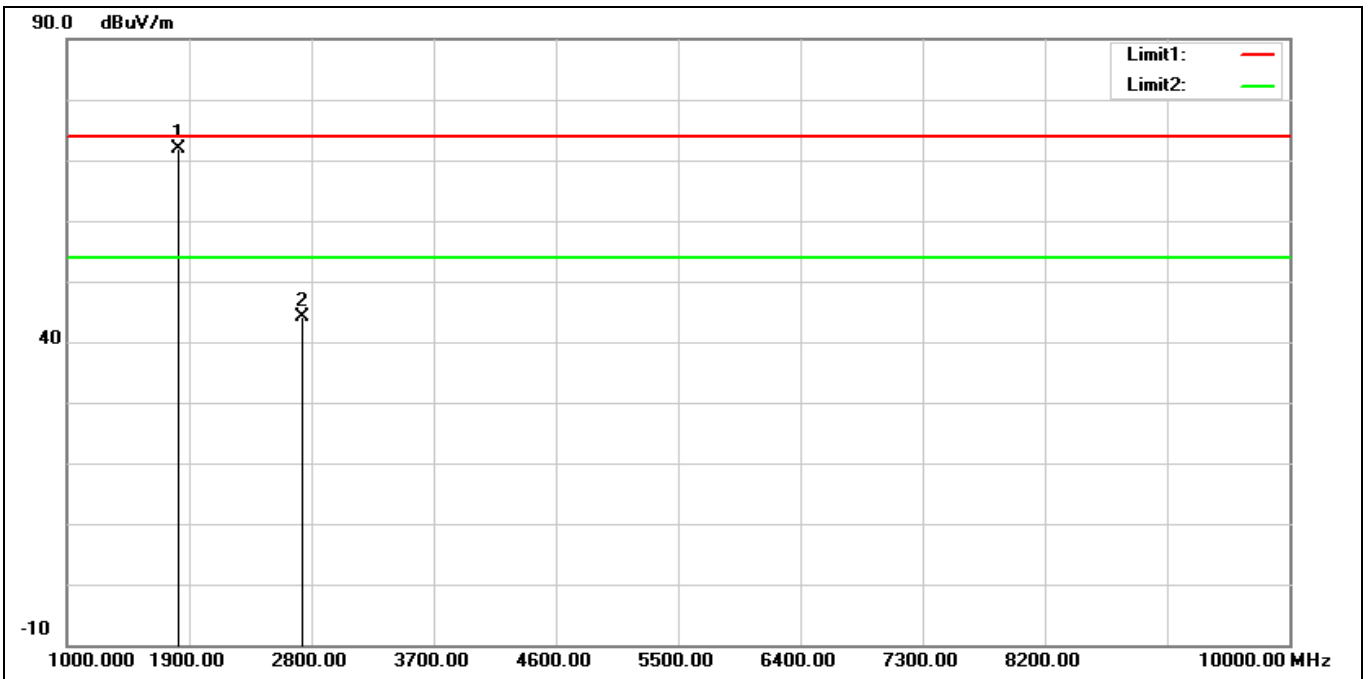
Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11b 20M 912 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	73.71	-9.40	64.31	74.00	-9.69	peak
2	2736.000	52.24	-5.71	46.53	74.00	-27.47	peak

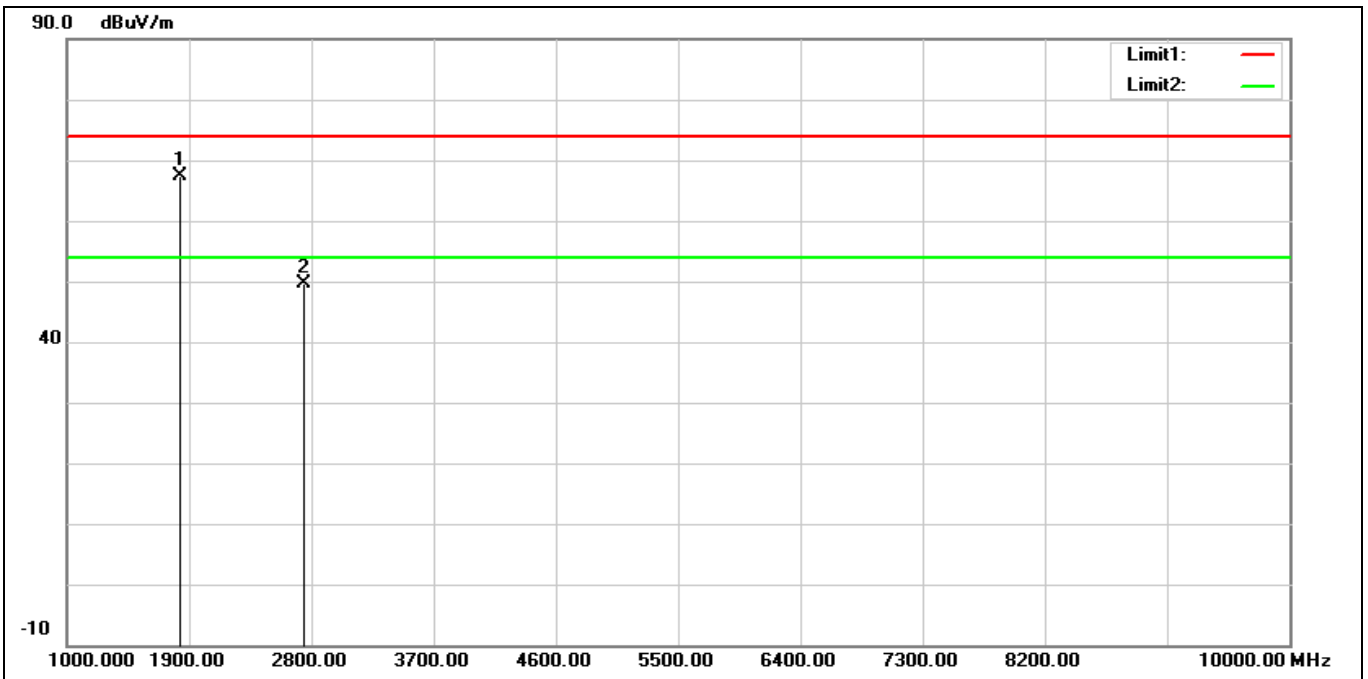


Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11b 20M 912 MHz		
Remark:			



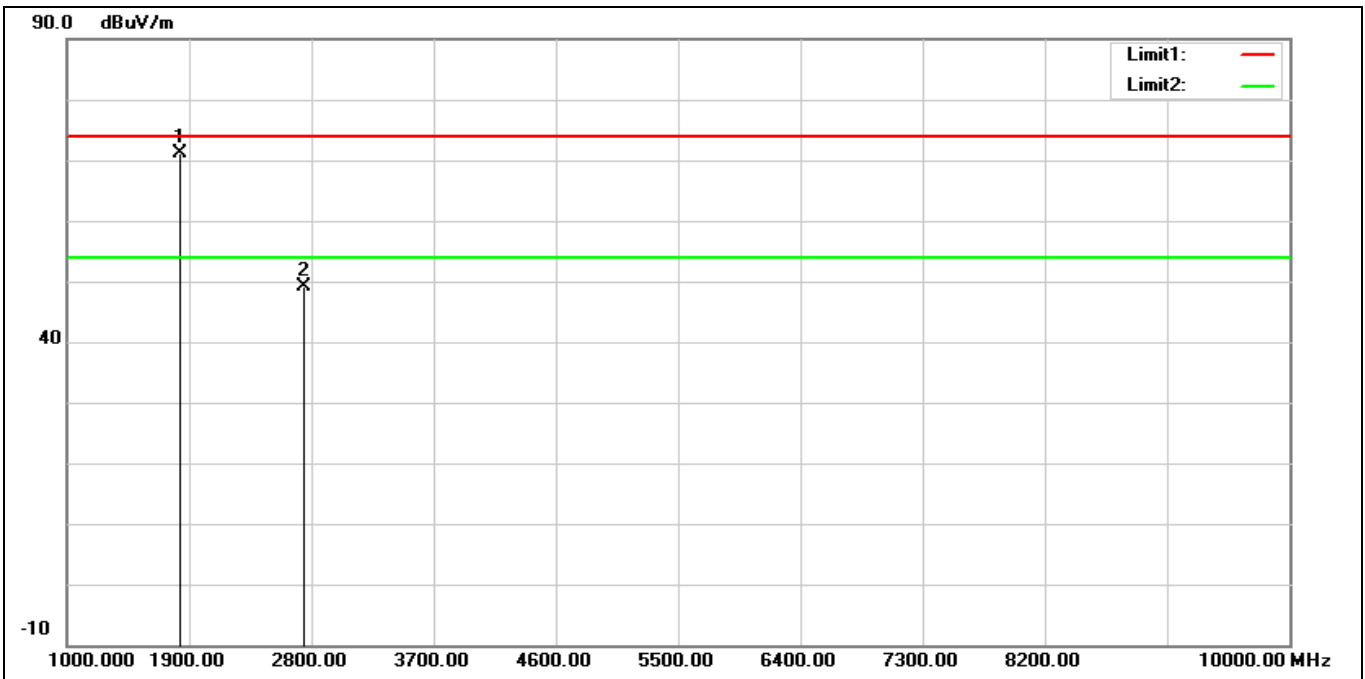
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	81.34	-9.40	71.94	74.00	-2.06	peak
2	2736.000	49.76	-5.71	44.05	74.00	-29.95	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11b 20M 917 MHz		
Remark:			



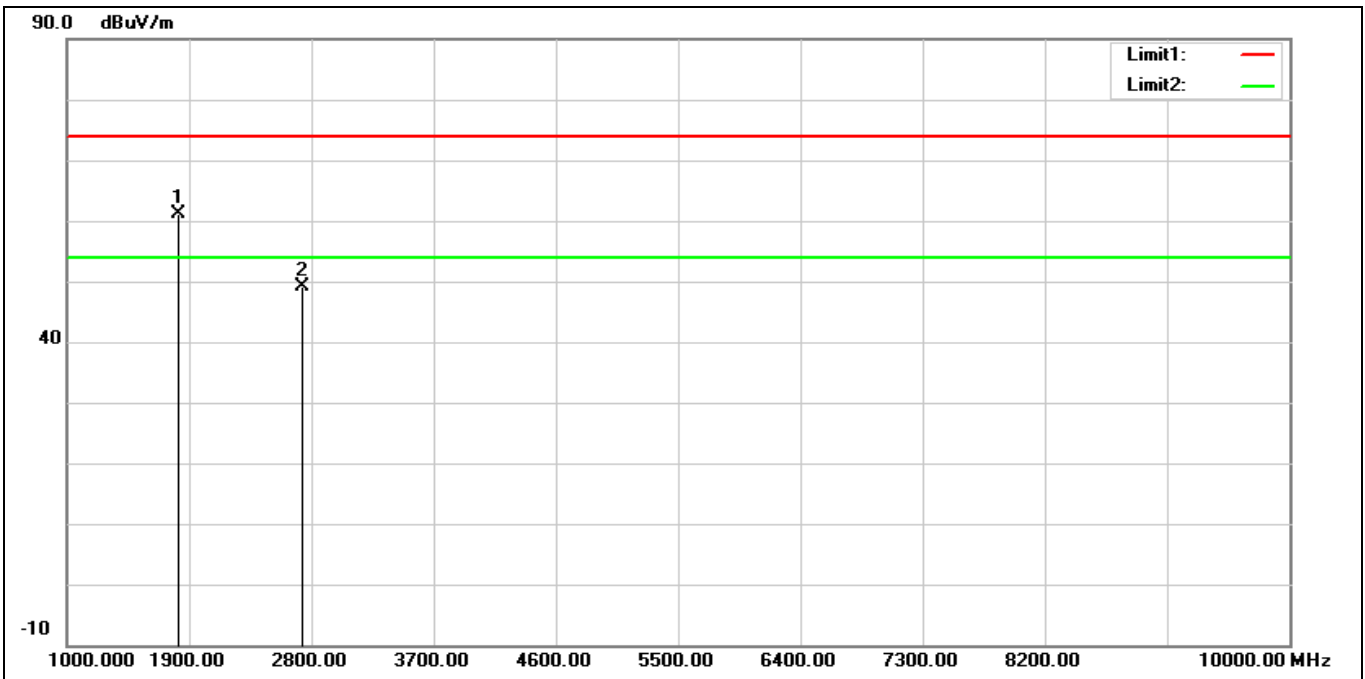
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	76.54	-9.26	67.28	74.00	-6.72	peak
2	2751.000	55.36	-5.61	49.75	74.00	-24.25	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11b 20M 917 MHz		
Remark:			



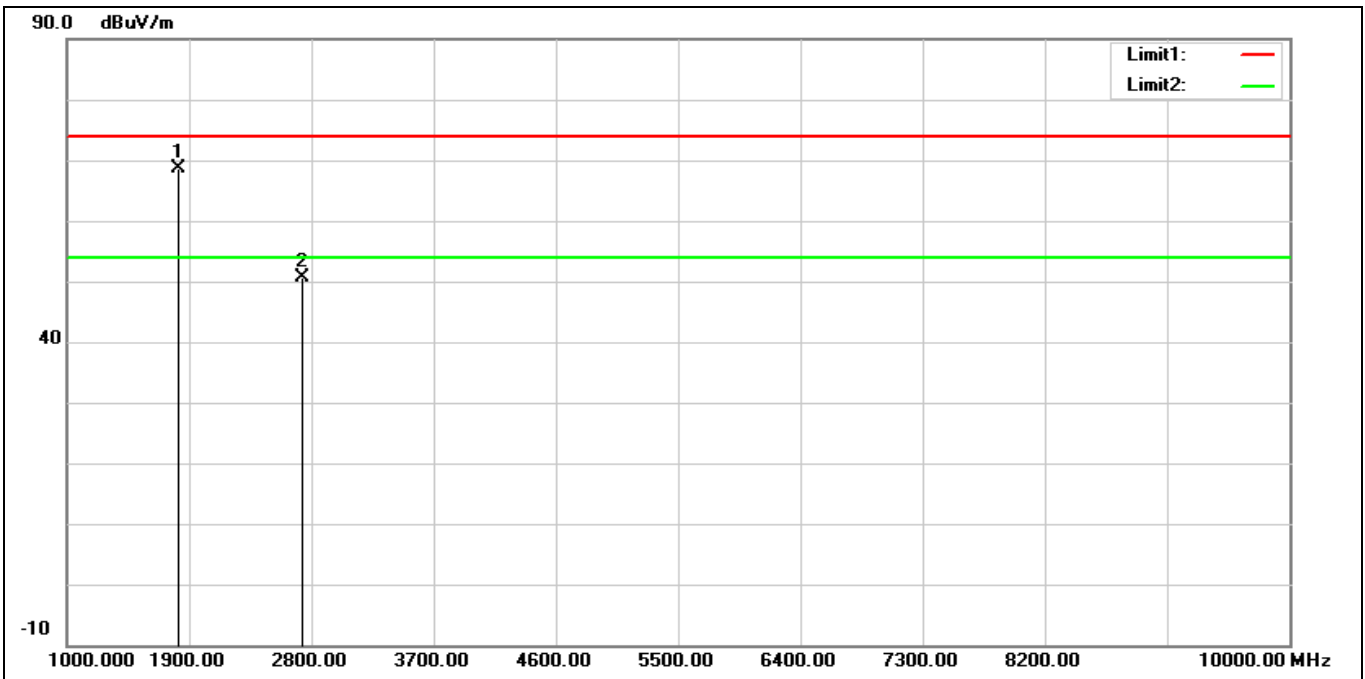
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	80.39	-9.26	71.13	74.00	-2.87	peak
2	2751.000	54.77	-5.61	49.16	74.00	-24.84	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 20M 912 MHz		
Remark:			



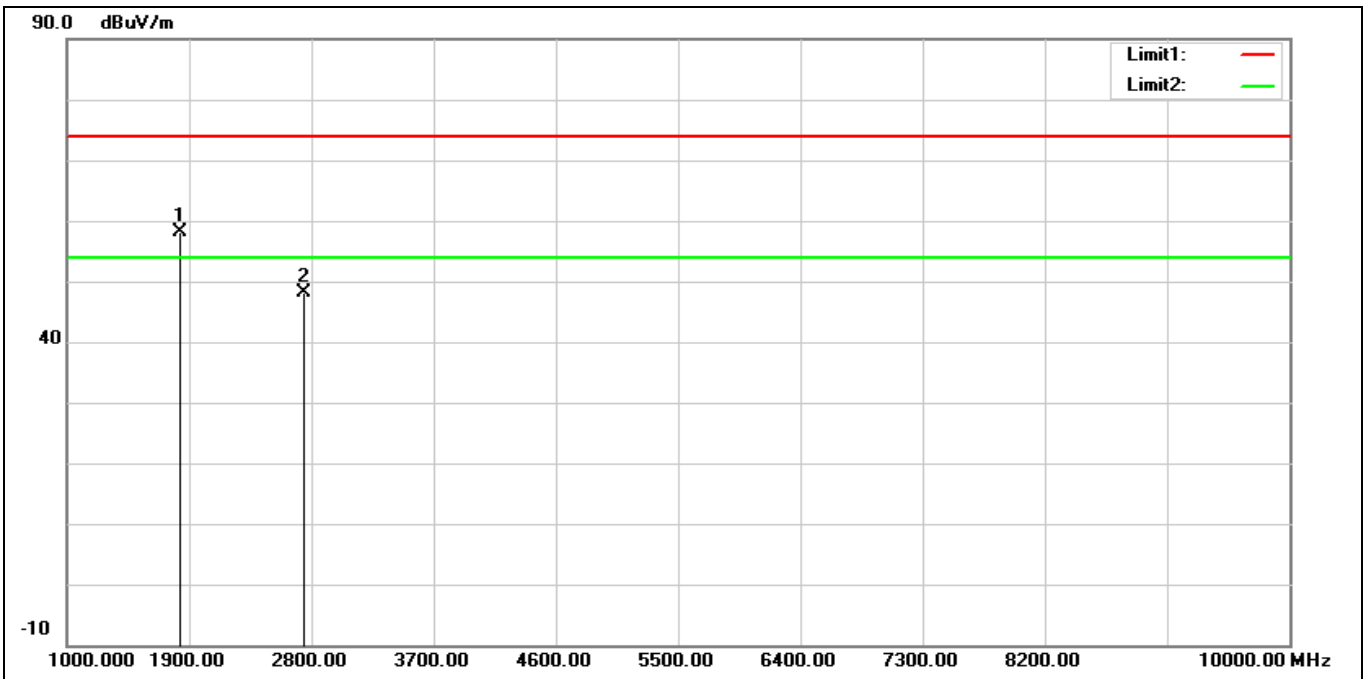
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	70.63	-9.40	61.23	74.00	-12.77	peak
2	2736.000	54.73	-5.71	49.02	74.00	-24.98	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 20M 912 MHz		
Remark:			



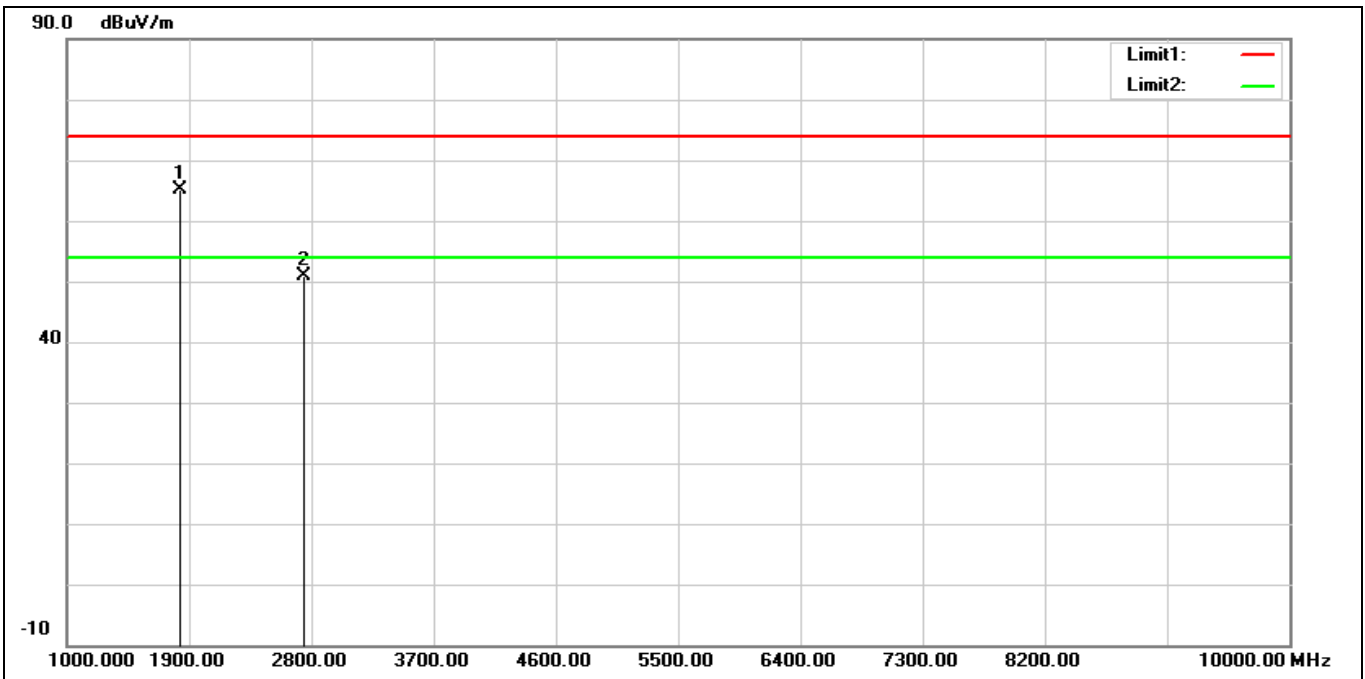
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	78.10	-9.40	68.70	74.00	-5.30	peak
2	2736.000	56.36	-5.71	50.65	74.00	-23.35	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 20M 917 MHz		
Remark:			



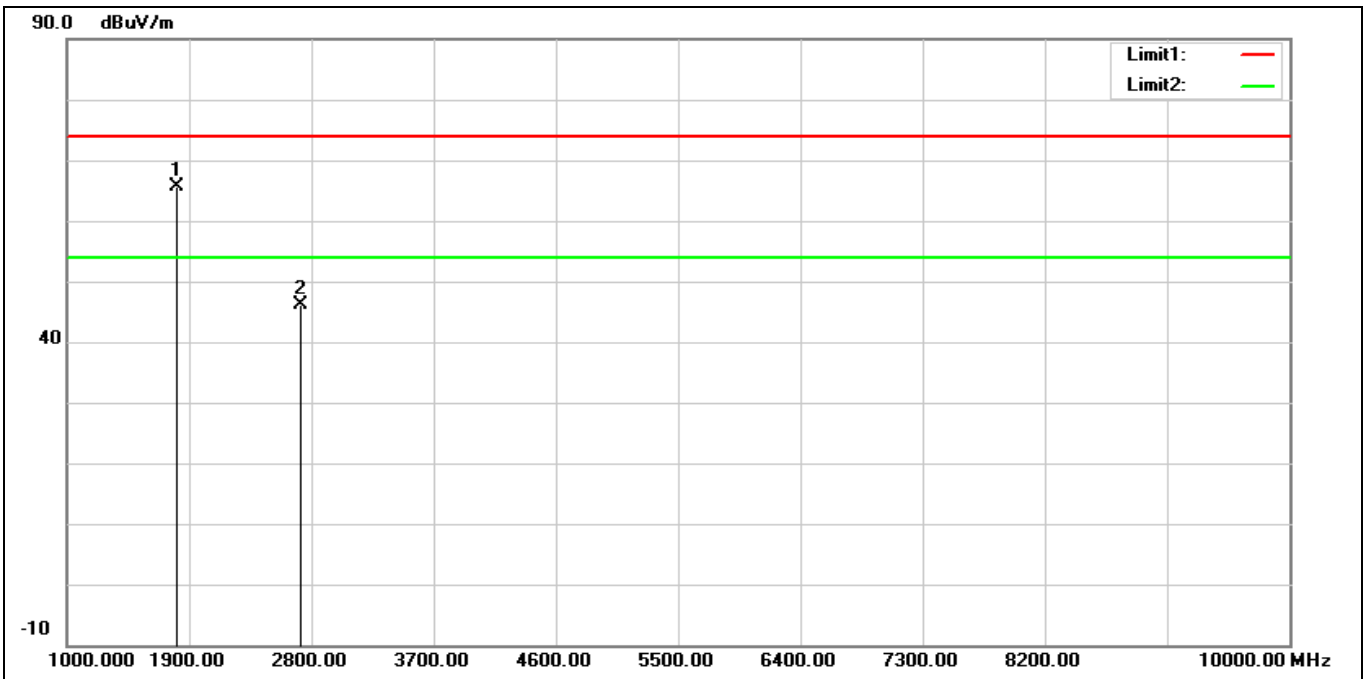
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	67.32	-9.26	58.06	74.00	-15.94	peak
2	2751.000	53.78	-5.61	48.17	74.00	-25.83	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 20M 917 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	74.47	-9.26	65.21	74.00	-8.79	peak
2	2751.000	56.44	-5.61	50.83	74.00	-23.17	peak

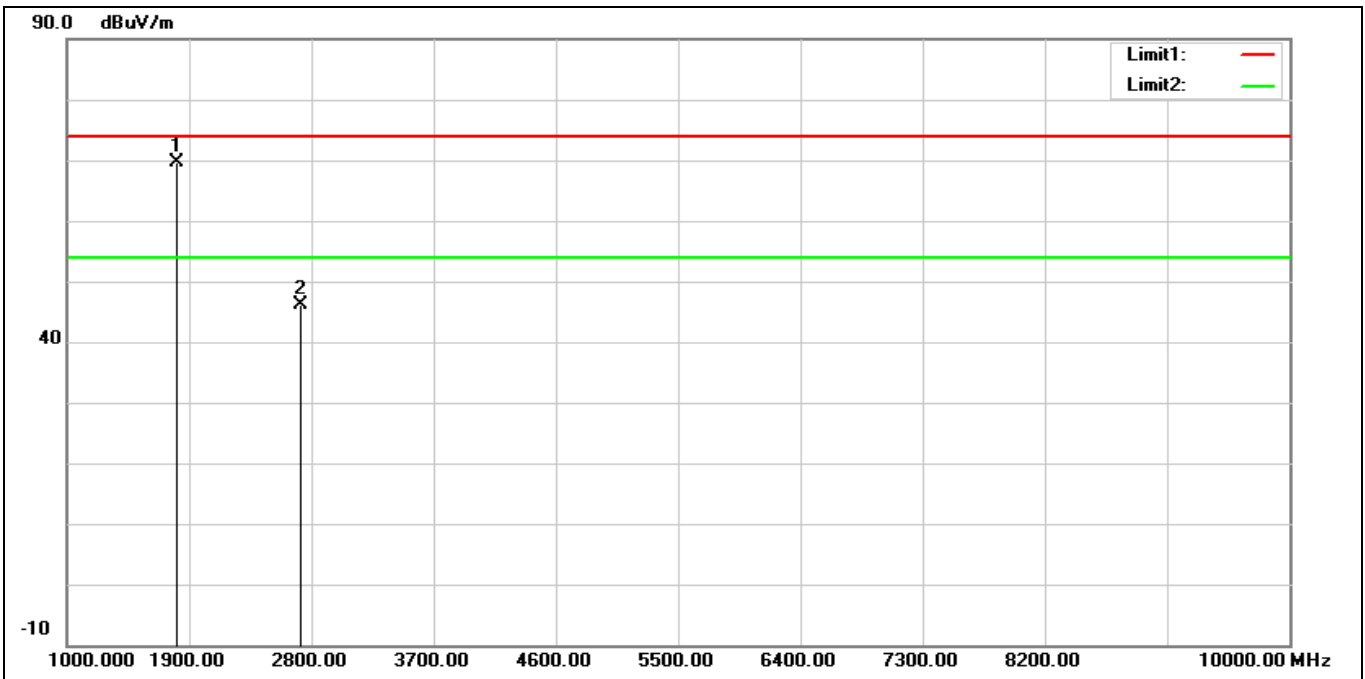
Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 907 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1814.000	75.22	-9.55	65.67	74.00	-8.33	peak
2	2721.000	51.94	-5.78	46.16	74.00	-27.84	peak

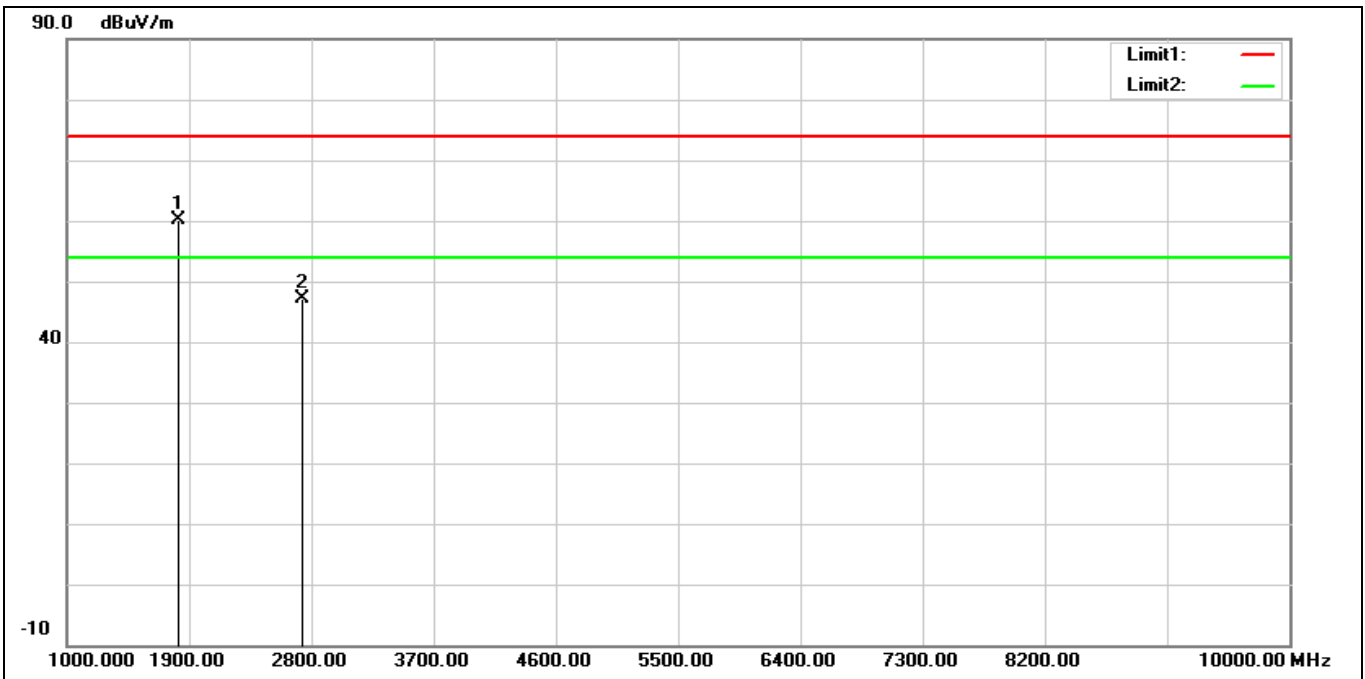


Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 907 MHz		
Remark:			



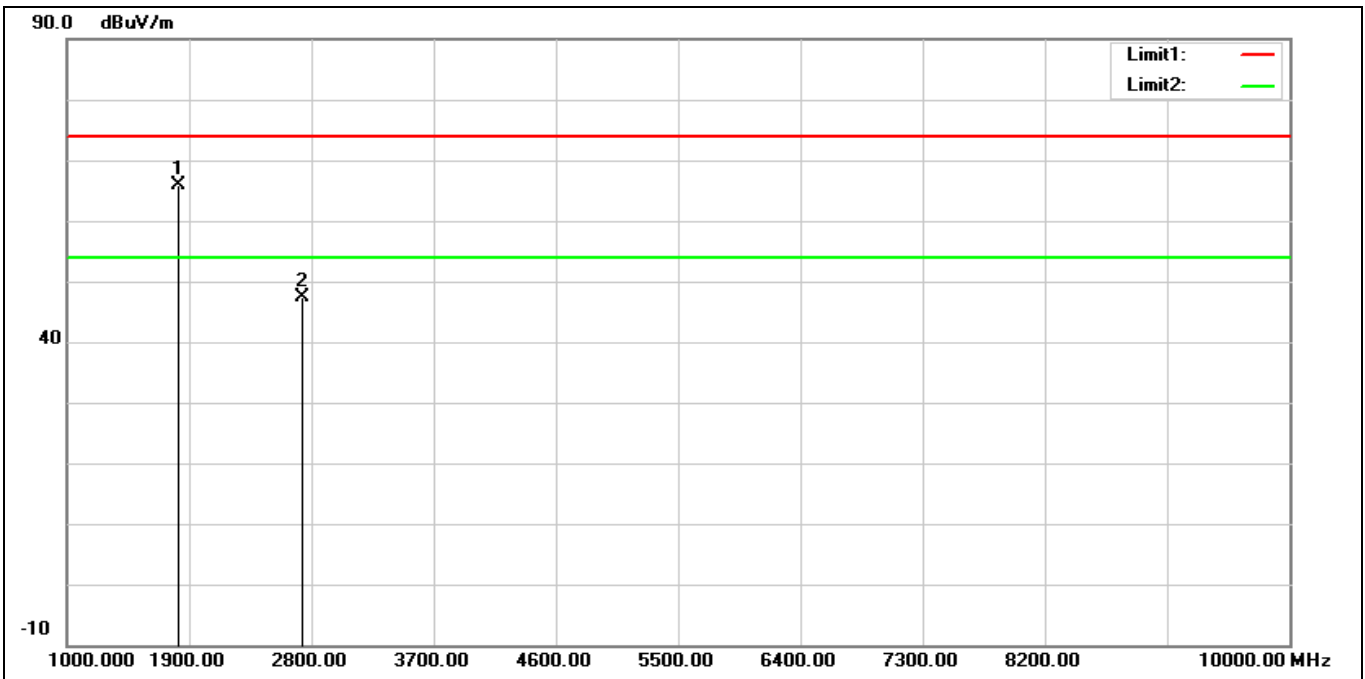
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1814.000	79.26	-9.55	69.71	74.00	-4.29	peak
2	2721.000	51.89	-5.78	46.11	74.00	-27.89	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 912 MHz		
Remark:			



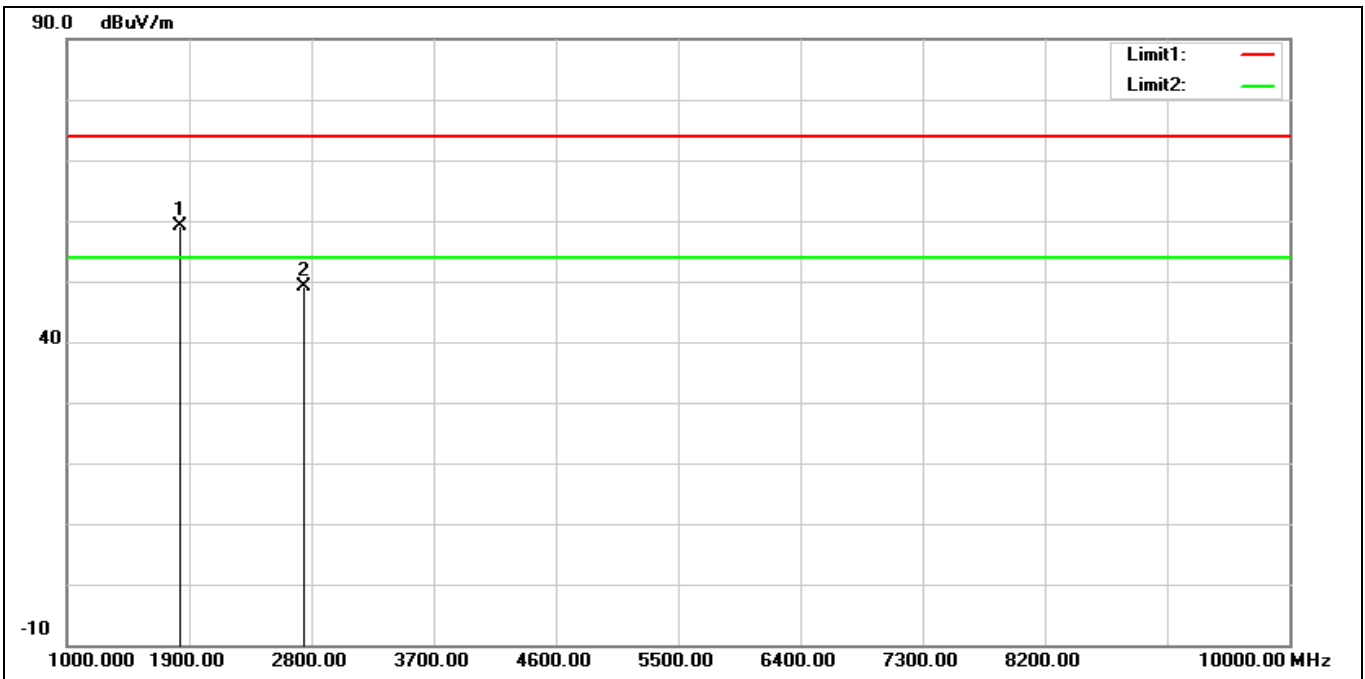
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	69.54	-9.40	60.14	74.00	-13.86	peak
2	2736.000	52.96	-5.71	47.25	74.00	-26.75	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 912 MHz		
Remark:			



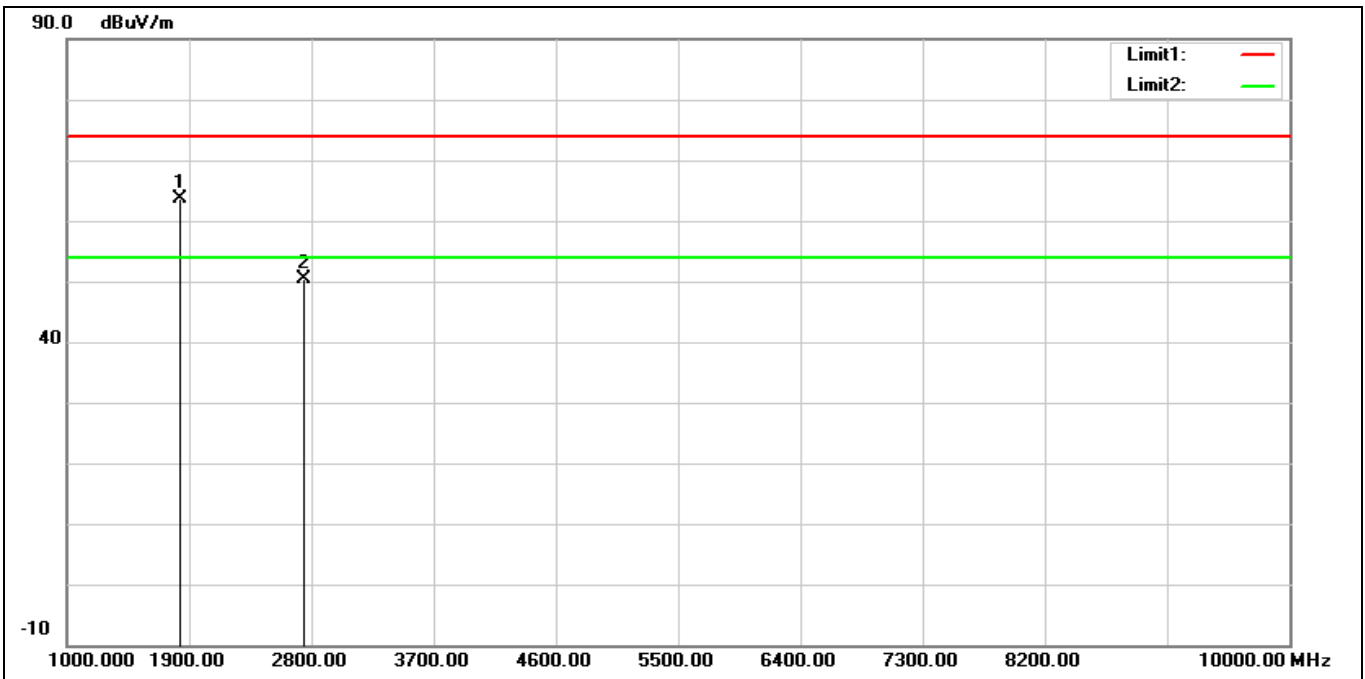
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	75.33	-9.40	65.93	74.00	-8.07	peak
2	2736.000	53.18	-5.71	47.47	74.00	-26.53	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 917 MHz		
Remark:			



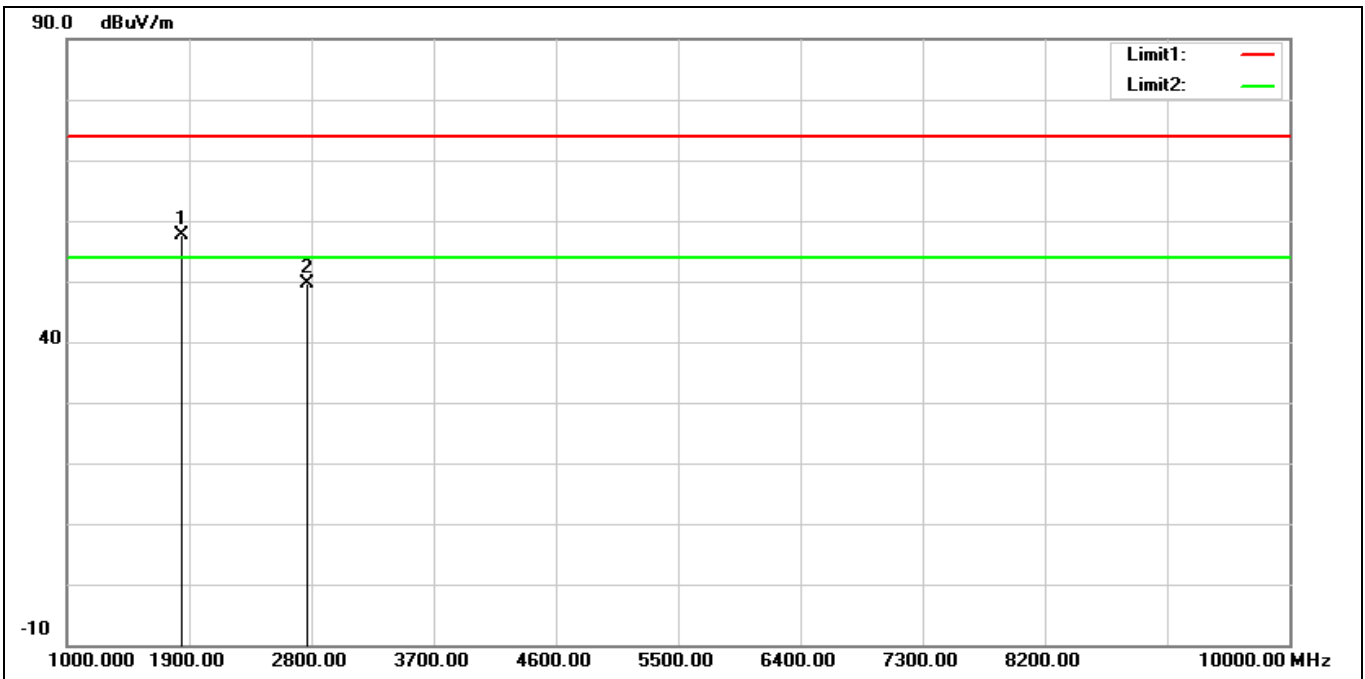
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	68.34	-9.26	59.08	74.00	-14.92	peak
2	2751.000	54.80	-5.61	49.19	74.00	-24.81	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 917 MHz		
Remark:			



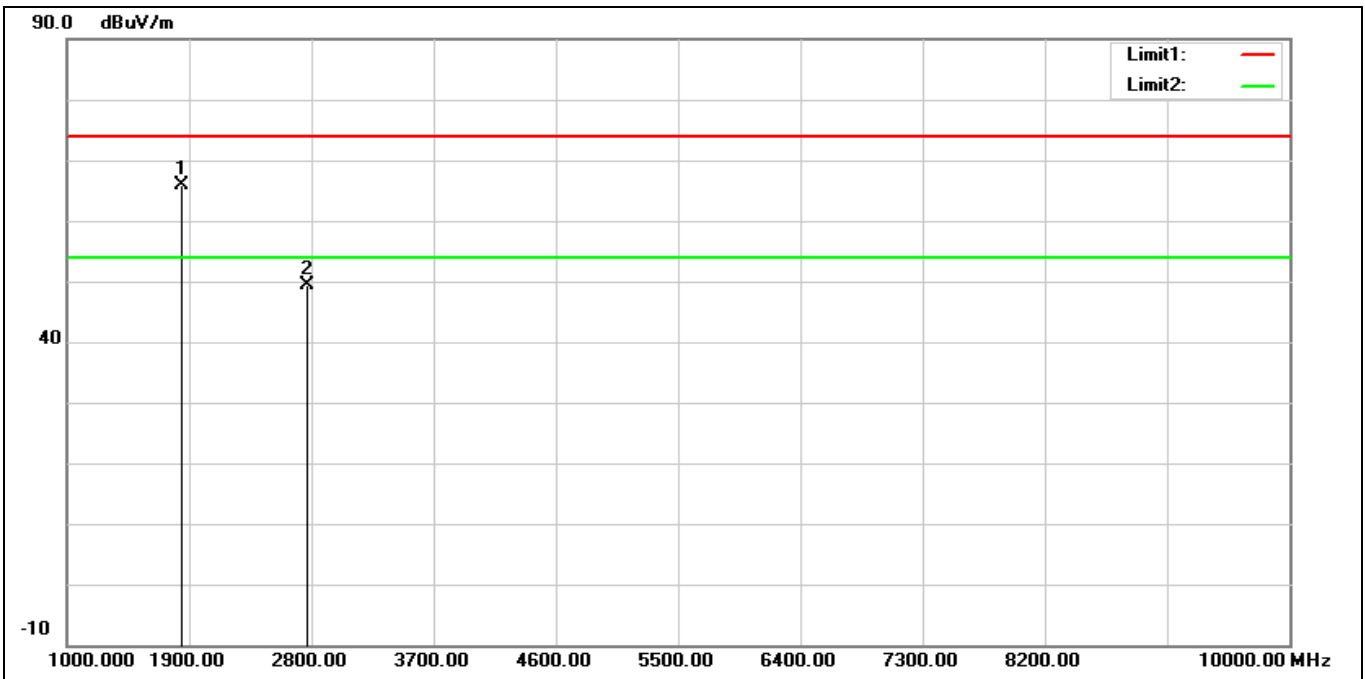
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	72.89	-9.26	63.63	74.00	-10.37	peak
2	2751.000	55.93	-5.61	50.32	74.00	-23.68	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 922 MHz		
Remark:			



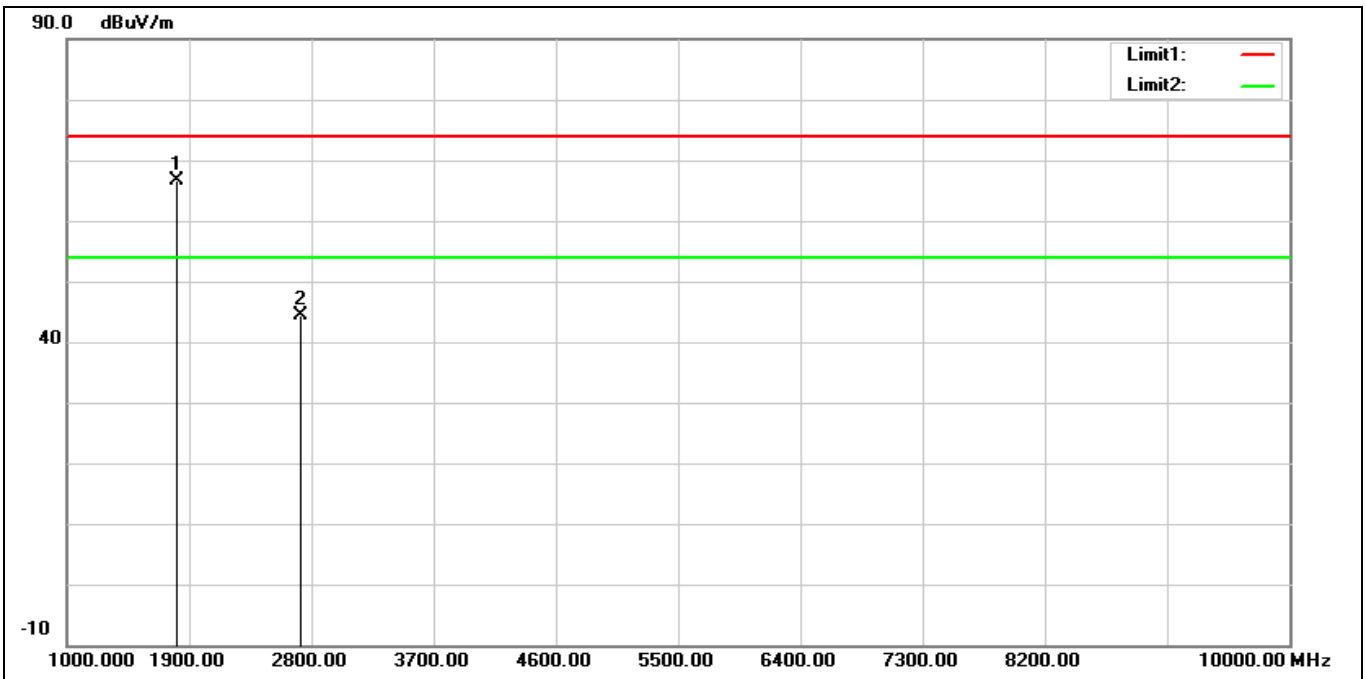
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1844.000	66.67	-9.13	57.54	74.00	-16.46	peak
2	2766.000	55.26	-5.51	49.75	74.00	-24.25	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 922 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1844.000	74.96	-9.13	65.83	74.00	-8.17	peak
2	2766.000	54.95	-5.51	49.44	74.00	-24.56	peak

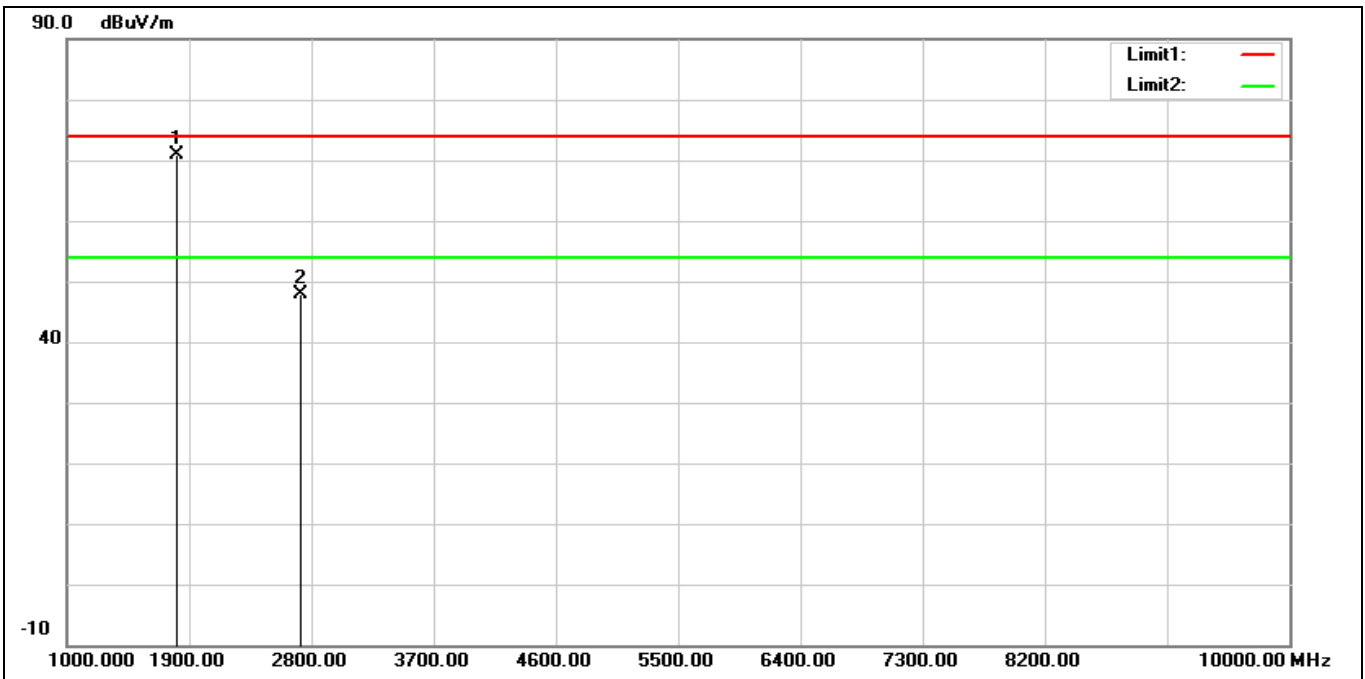
Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 907 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1814.000	76.23	-9.55	66.68	74.00	-7.32	peak
2	2721.000	50.07	-5.78	44.29	74.00	-29.71	peak

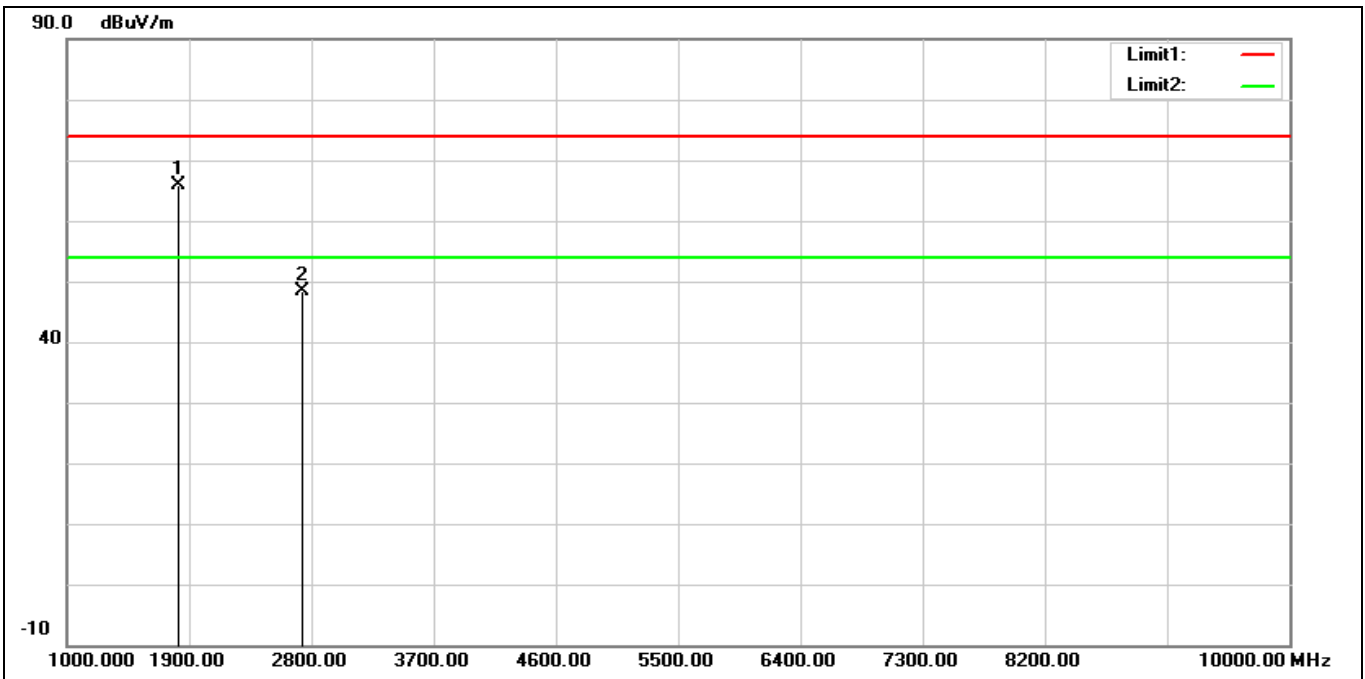


Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 907 MHz		
Remark:			



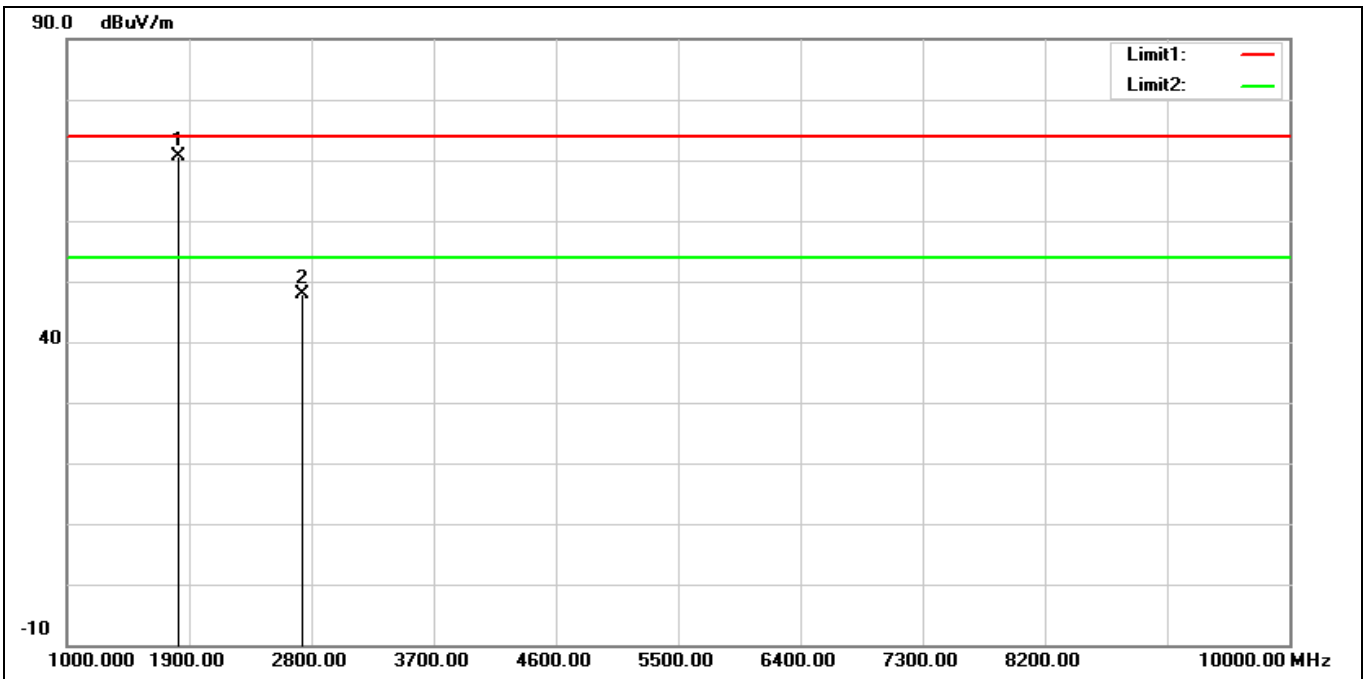
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1814.000	80.31	-9.55	70.76	74.00	-3.24	peak
2	2721.000	53.58	-5.78	47.80	74.00	-26.20	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 912 MHz		
Remark:			



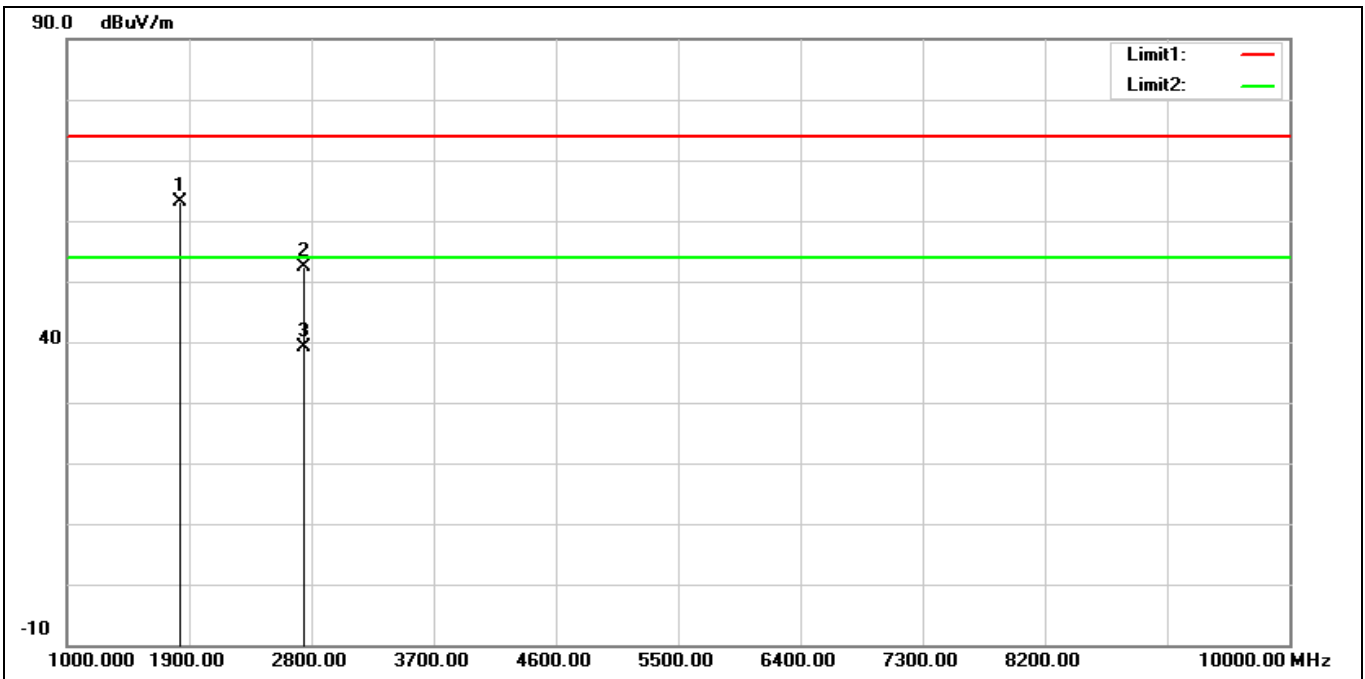
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	75.23	-9.40	65.83	74.00	-8.17	peak
2	2736.000	54.10	-5.71	48.39	74.00	-25.61	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 912 MHz		
Remark:			



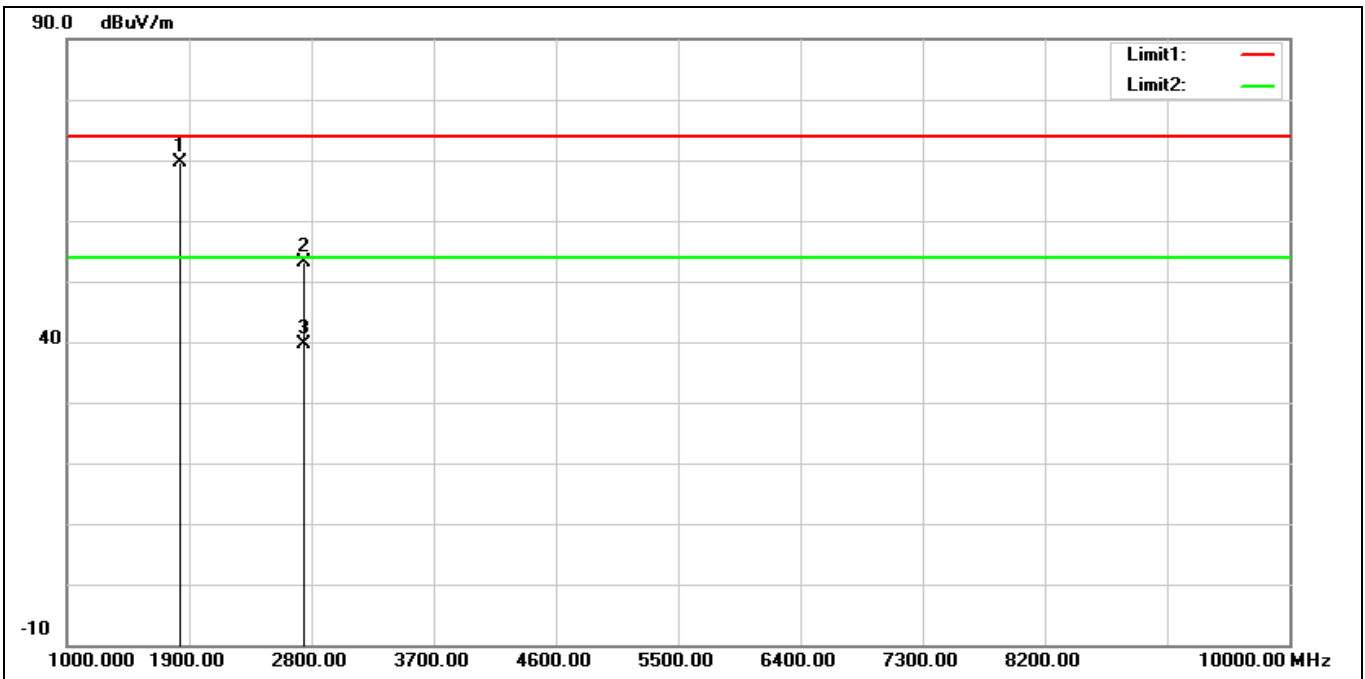
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1824.000	79.98	-9.40	70.58	74.00	-3.42	peak
2	2736.000	53.62	-5.71	47.91	74.00	-26.09	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 917 MHz		
Remark:			



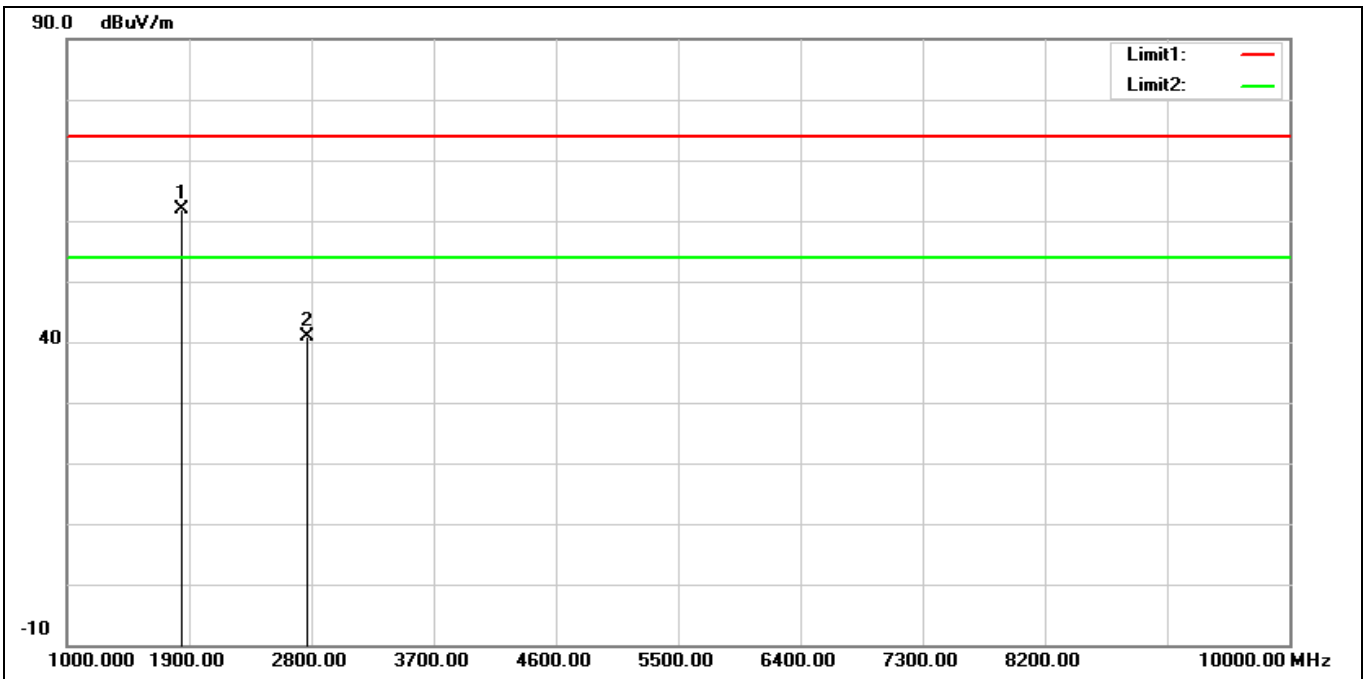
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	72.48	-9.26	63.22	74.00	-10.78	peak
2	2751.000	57.94	-5.61	52.33	74.00	-21.67	peak
3	2751.000	44.64	-5.61	39.03	54.00	-14.97	AVG

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 917 MHz		
Remark:			



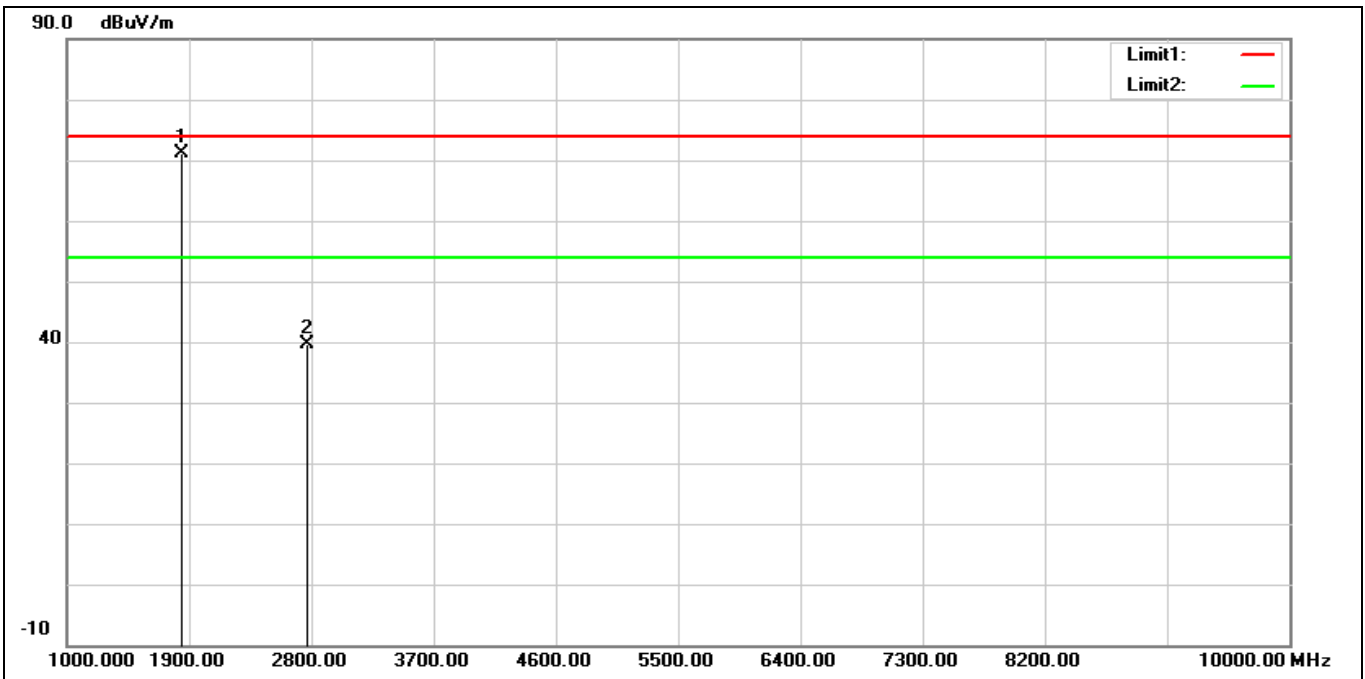
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1834.000	78.95	-9.26	69.69	74.00	-4.31	peak
2	2751.000	58.71	-5.61	53.10	74.00	-20.90	peak
3	2751.000	45.12	-5.61	39.51	54.00	-14.49	AVG

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 922 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1844.000	70.91	-9.13	61.78	74.00	-12.22	peak
2	2766.000	46.49	-5.51	40.98	74.00	-33.02	peak

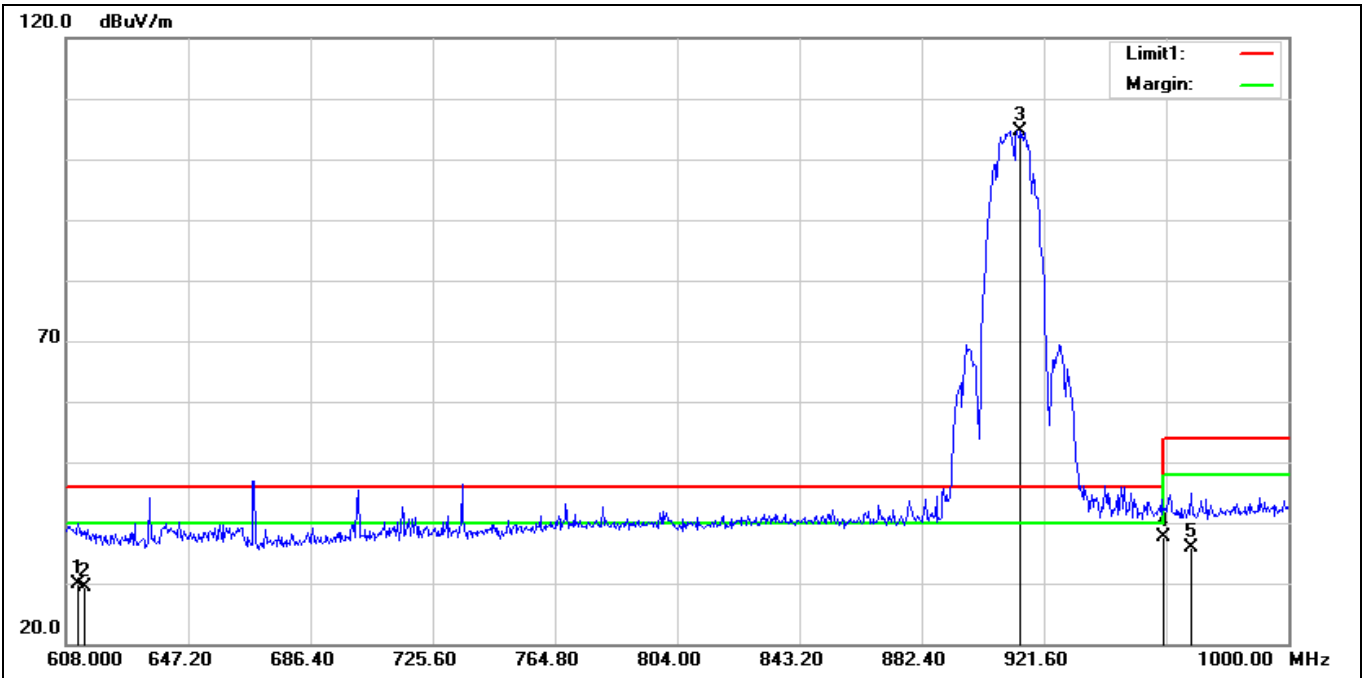
Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 922 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1*	1844.000	80.16	-9.13	71.03	74.00	-2.97	peak
2	2766.000	45.08	-5.51	39.57	74.00	-34.43	peak

Bandedge

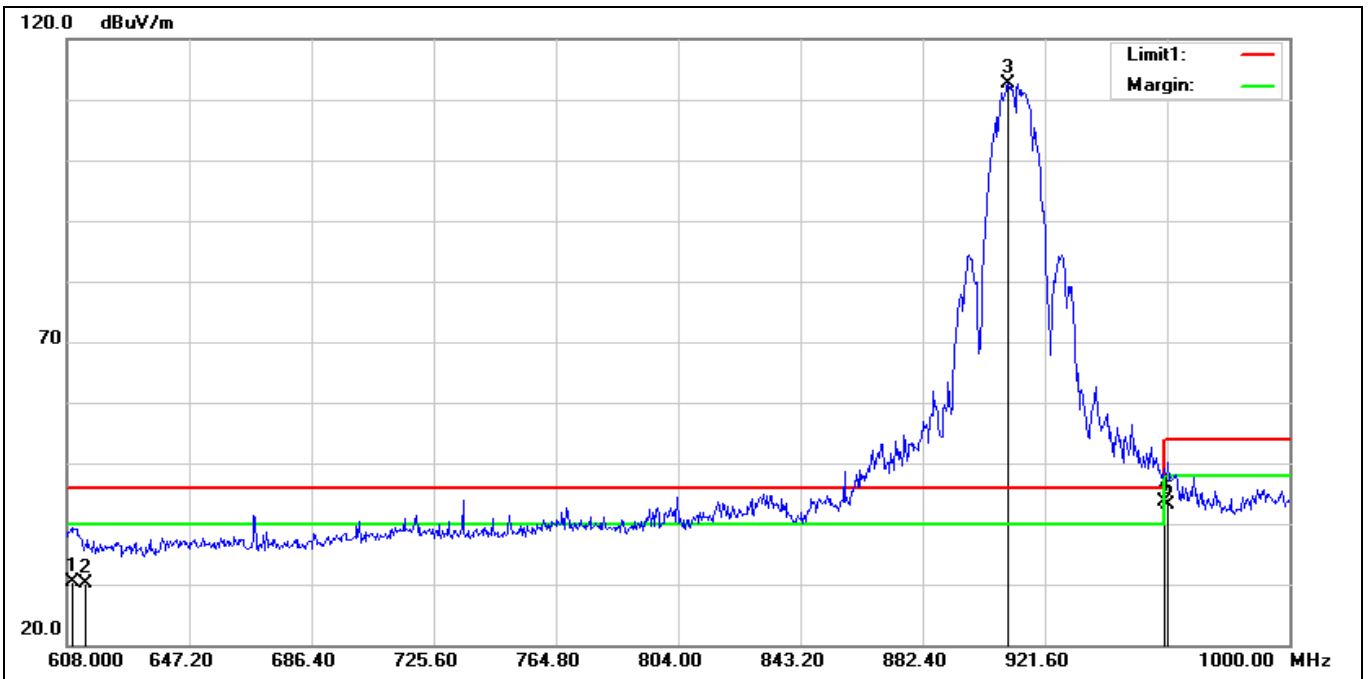
Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11b 20M 912 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.9200	29.17	0.71	29.88	46.00	-16.12	QP
2	614.0000	28.79	0.71	29.50	46.00	-16.50	QP
3*	914.1520	98.97	5.78	104.75	46.00	58.75	peak
4	960.0000	31.12	6.55	37.67	46.00	-8.33	QP
5	968.6400	29.04	6.73	35.77	54.00	-18.23	QP

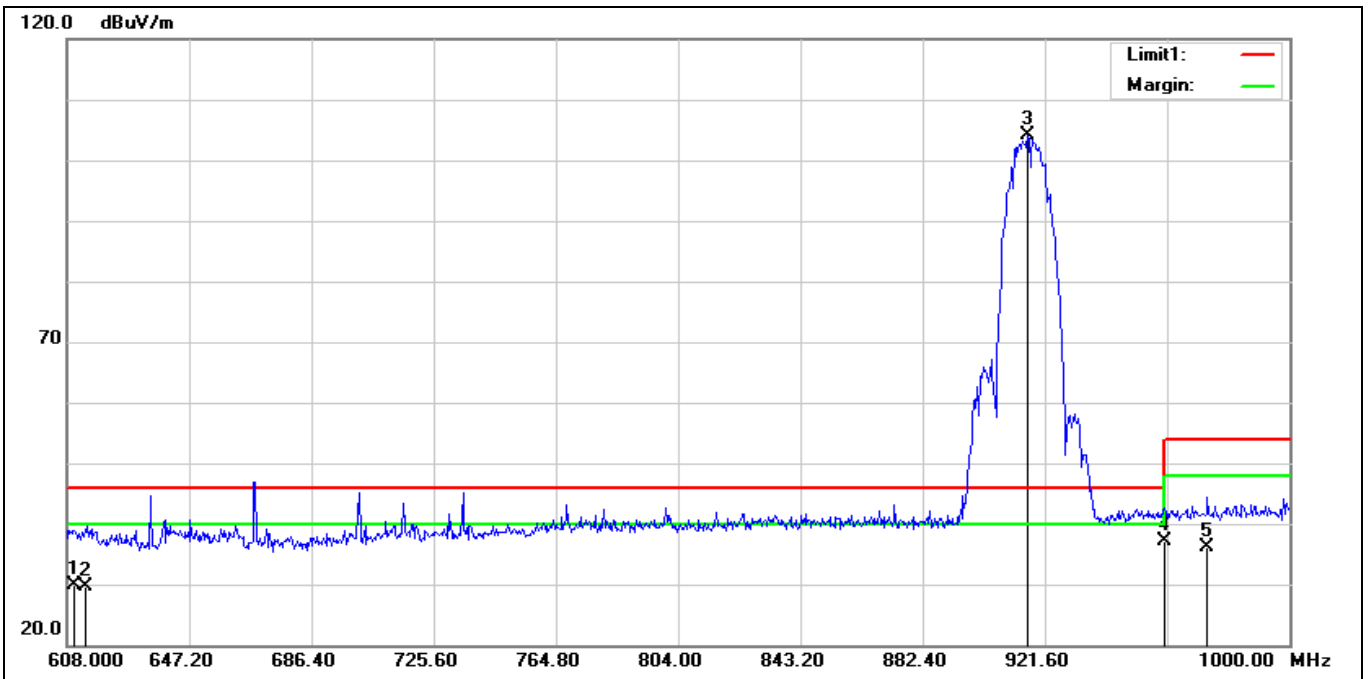


Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11b 20M 912 MHz		
Remark:			



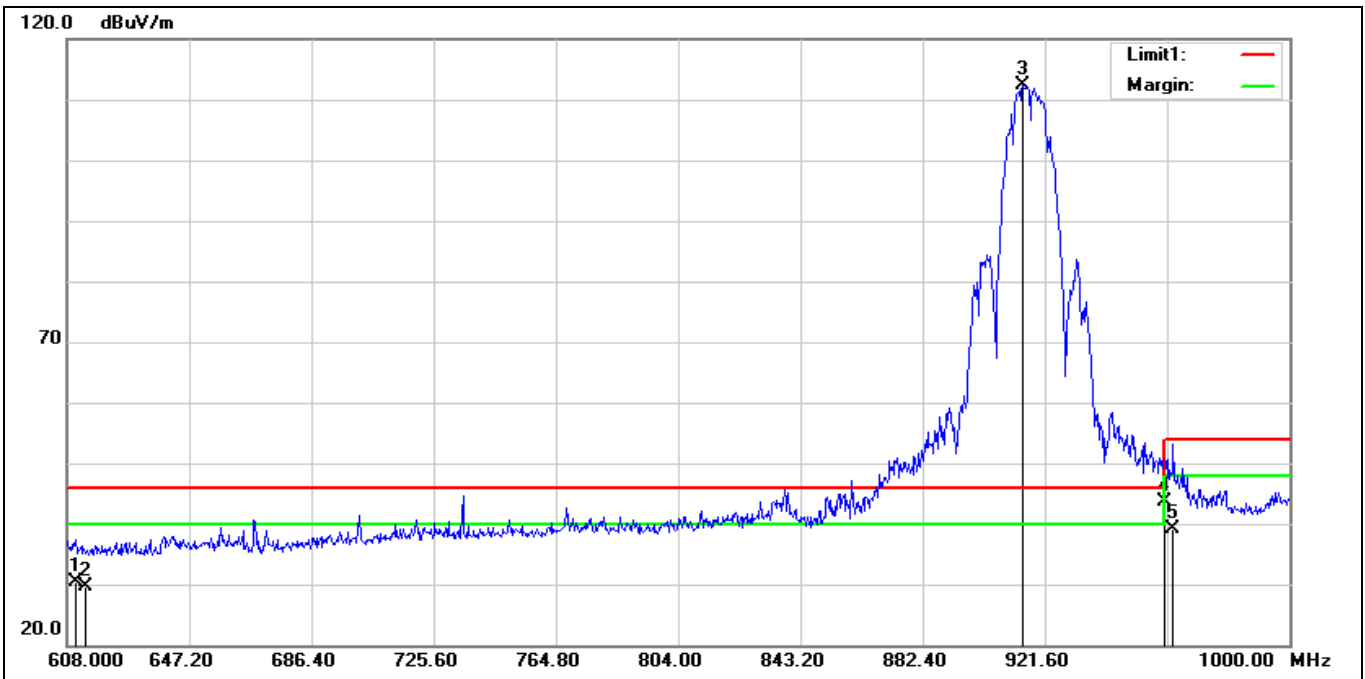
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	609.5680	29.69	0.69	30.38	46.00	-15.62	QP
2	614.0000	29.32	0.71	30.03	46.00	-15.97	QP
3*	909.8400	106.94	5.71	112.65	46.00	66.65	peak
4!	960.0000	37.17	6.55	43.72	46.00	-2.28	QP
5	961.1920	36.47	6.58	43.05	54.00	-10.95	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11b 20M 917 MHz		
Remark:			



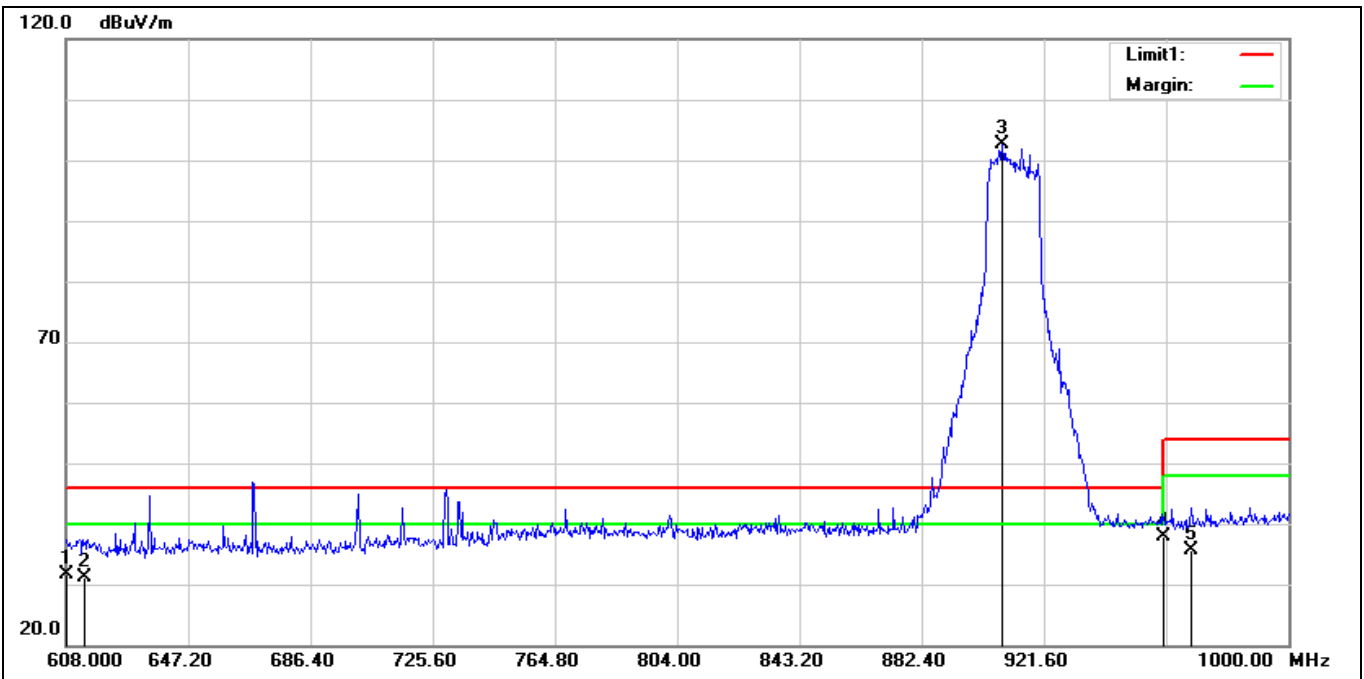
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	610.3520	29.30	0.69	29.99	46.00	-16.01	QP
2	614.0000	29.04	0.71	29.75	46.00	-16.25	QP
3*	916.1120	98.41	5.80	104.21	46.00	58.21	peak
4	960.0000	30.52	6.55	37.07	46.00	-8.93	QP
5	973.7360	29.20	6.84	36.04	54.00	-17.96	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11b 20M 917 MHz		
Remark:			



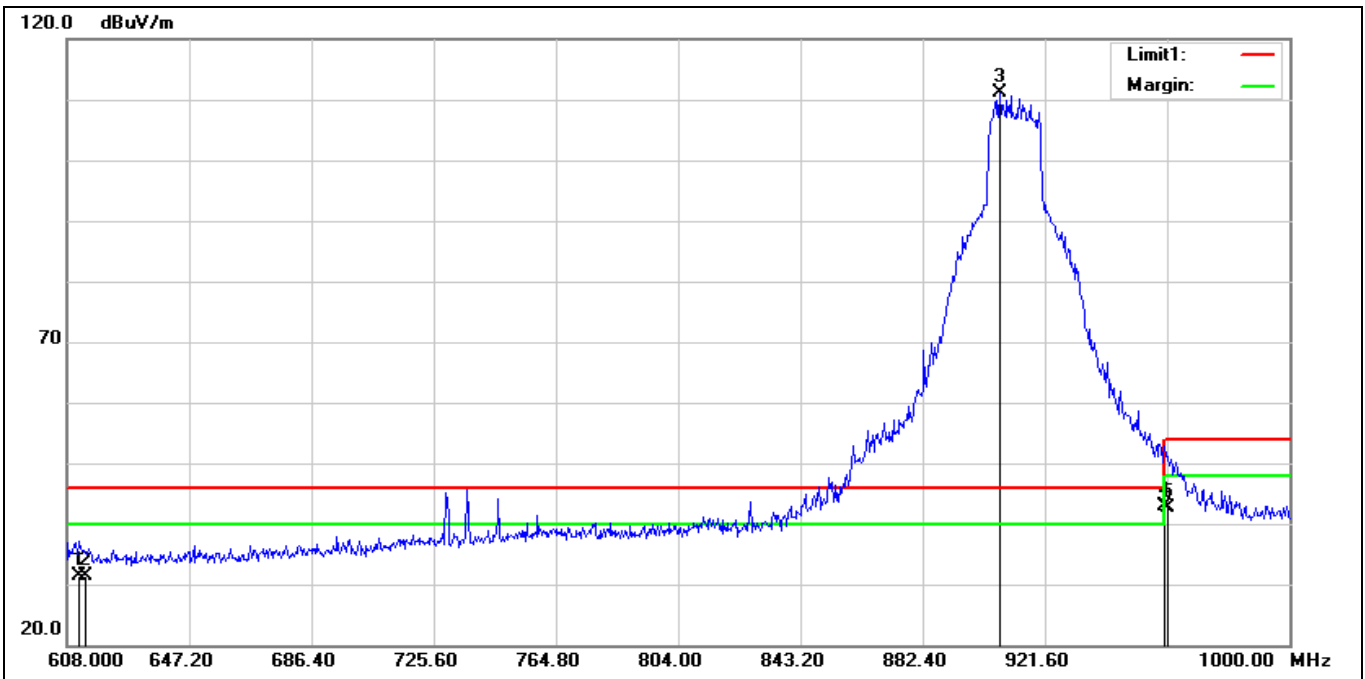
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	610.7440	29.73	0.70	30.43	46.00	-15.57	QP
2	614.0000	28.81	0.71	29.52	46.00	-16.48	QP
3*	914.5440	106.69	5.78	112.47	46.00	66.47	peak
4!	960.0000	37.09	6.55	43.64	46.00	-2.36	QP
5	962.7600	32.41	6.60	39.01	54.00	-14.99	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 20M 912 MHz		
Remark:			



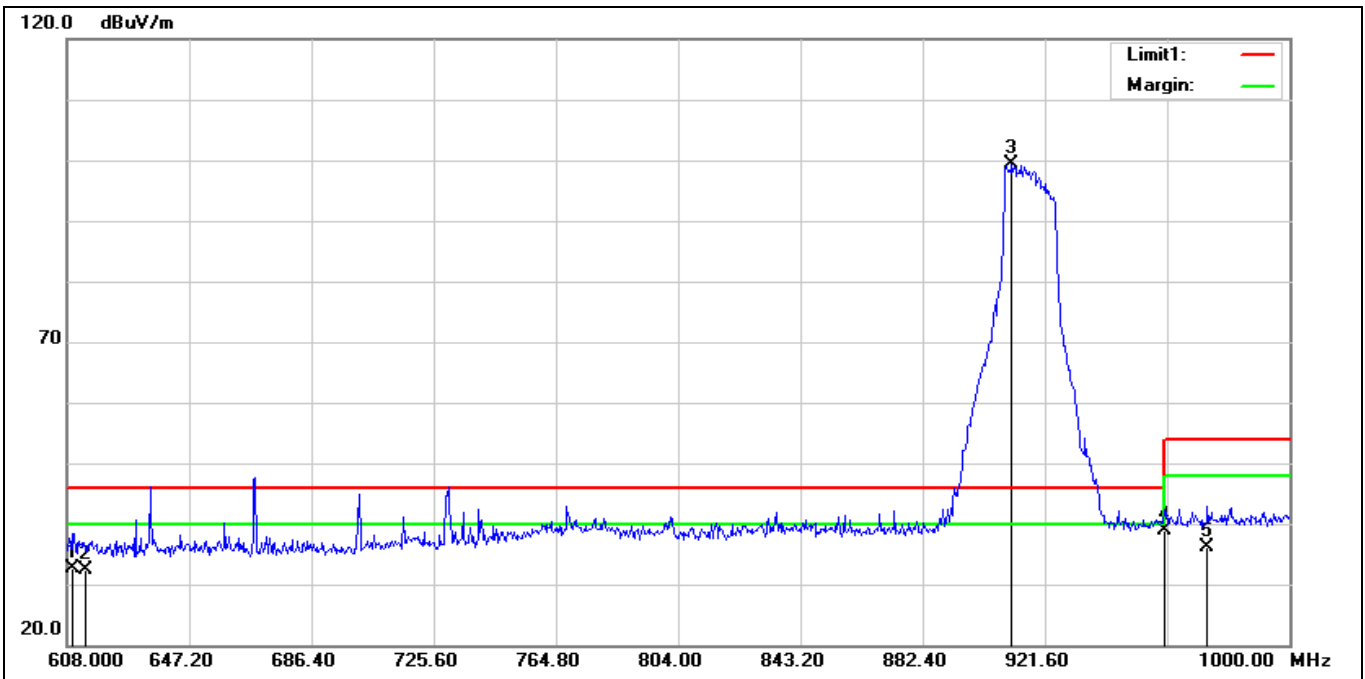
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	608.3920	30.91	0.68	31.59	46.00	-14.41	QP
2	614.0000	30.43	0.71	31.14	46.00	-14.86	QP
3*	908.2720	97.02	5.68	102.70	46.00	56.70	peak
4	960.0000	31.43	6.55	37.98	46.00	-8.02	QP
5	969.0320	28.82	6.75	35.57	54.00	-18.43	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 20M 912 MHz		
Remark:			



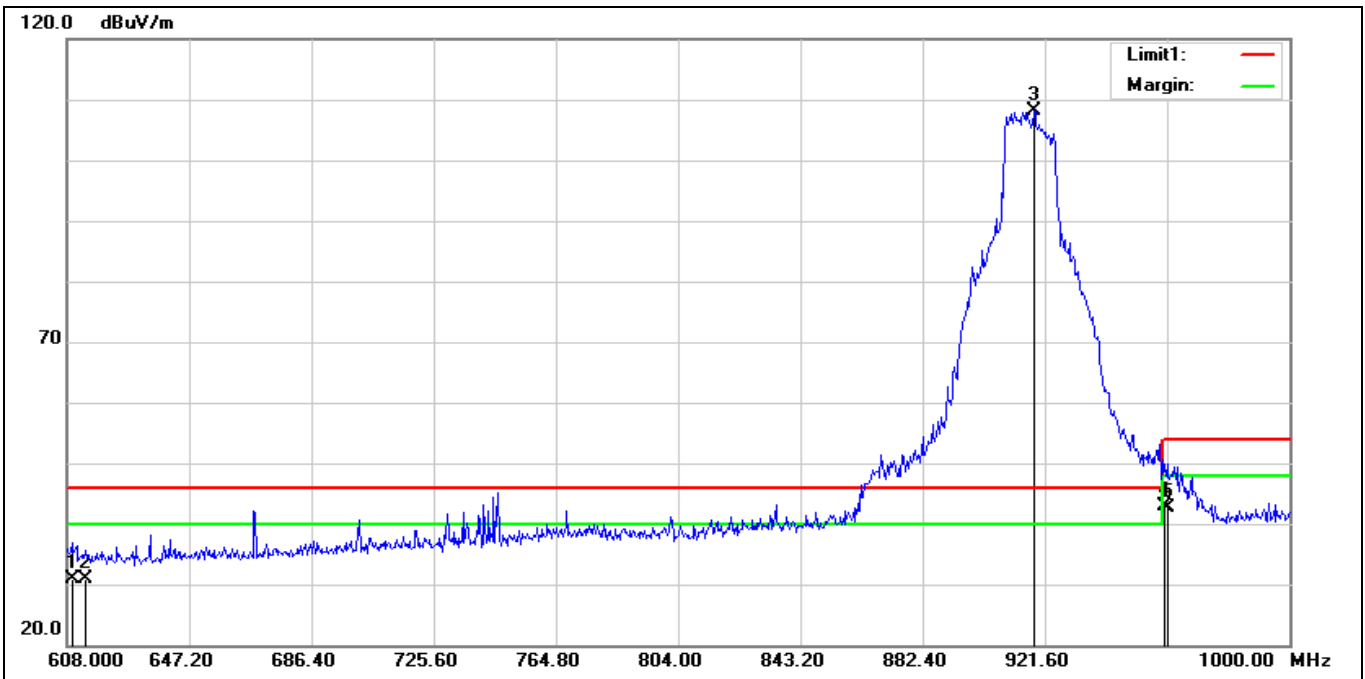
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.9200	30.73	0.71	31.44	46.00	-14.56	QP
2	614.0000	30.66	0.71	31.37	46.00	-14.63	QP
3*	907.0960	105.52	5.66	111.18	46.00	65.18	peak
4!	960.0000	36.42	6.55	42.97	46.00	-3.03	QP
5	961.1920	36.12	6.58	42.70	54.00	-11.30	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 20M 917 MHz		
Remark:			



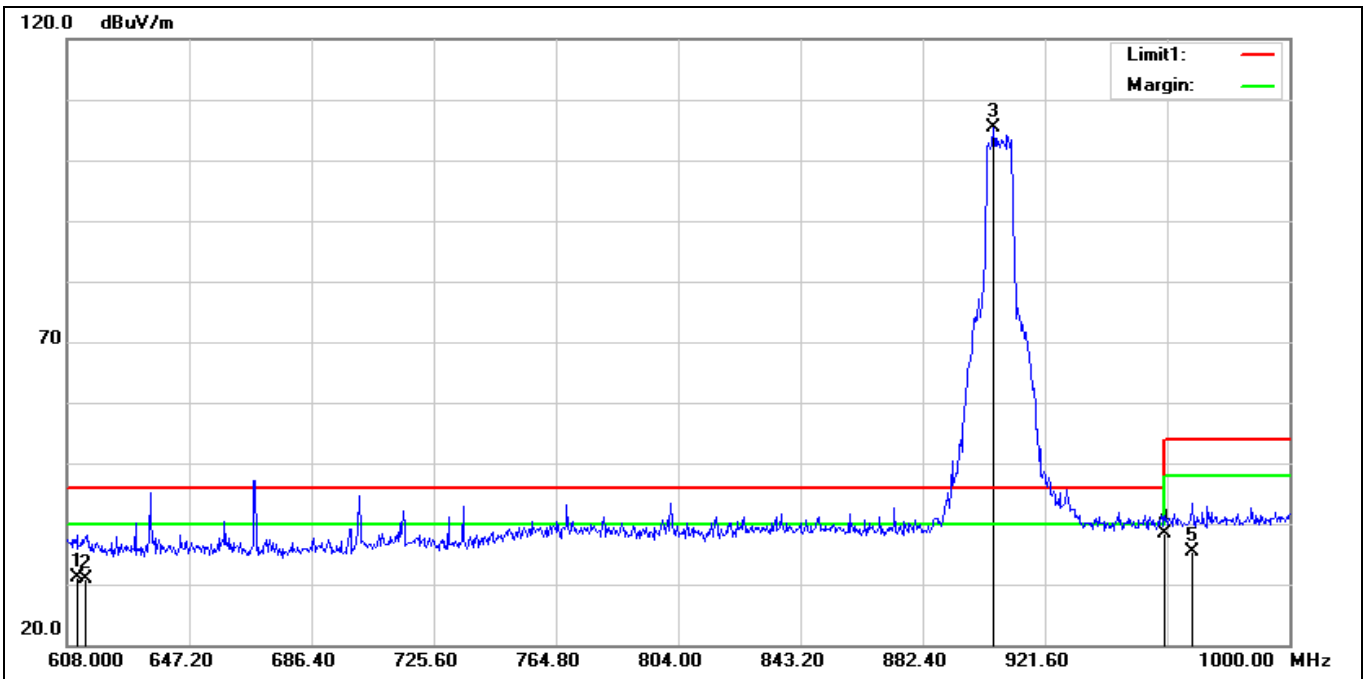
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	609.5680	31.94	0.69	32.63	46.00	-13.37	QP
2	614.0000	31.75	0.71	32.46	46.00	-13.54	QP
3*	911.0160	93.70	5.72	99.42	46.00	53.42	peak
4	960.0000	32.34	6.55	38.89	46.00	-7.11	QP
5	973.7360	29.24	6.84	36.08	54.00	-17.92	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 20M 917 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	609.5680	30.30	0.69	30.99	46.00	-15.01	QP
2	614.0000	30.13	0.71	30.84	46.00	-15.16	QP
3*	918.0720	102.21	5.83	108.04	46.00	62.04	peak
4!	960.0000	36.30	6.55	42.85	46.00	-3.15	QP
5	960.8000	36.15	6.56	42.71	54.00	-11.29	QP

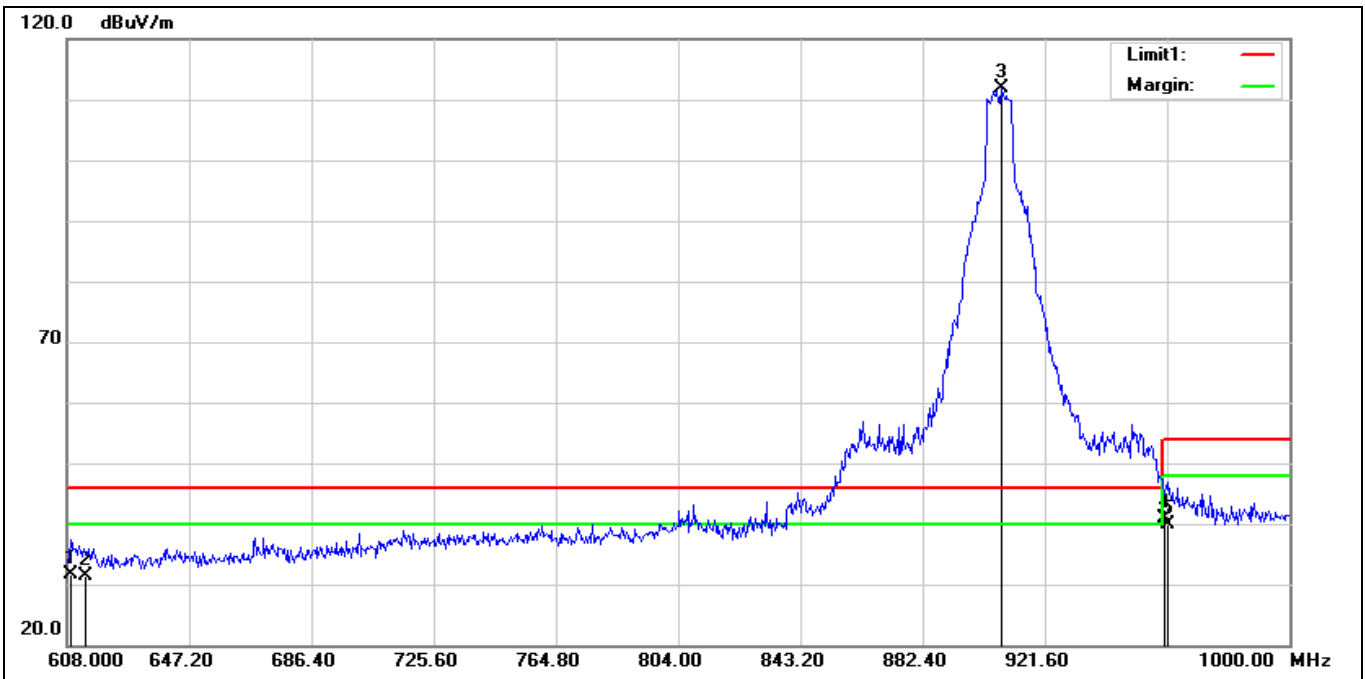
Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 907 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.1360	30.49	0.70	31.19	46.00	-14.81	QP
2	614.0000	30.24	0.71	30.95	46.00	-15.05	QP
3*	905.1360	99.66	5.63	105.29	46.00	59.29	peak
4	960.0000	31.83	6.55	38.38	46.00	-7.62	QP
5	969.0320	28.54	6.75	35.29	54.00	-18.71	QP

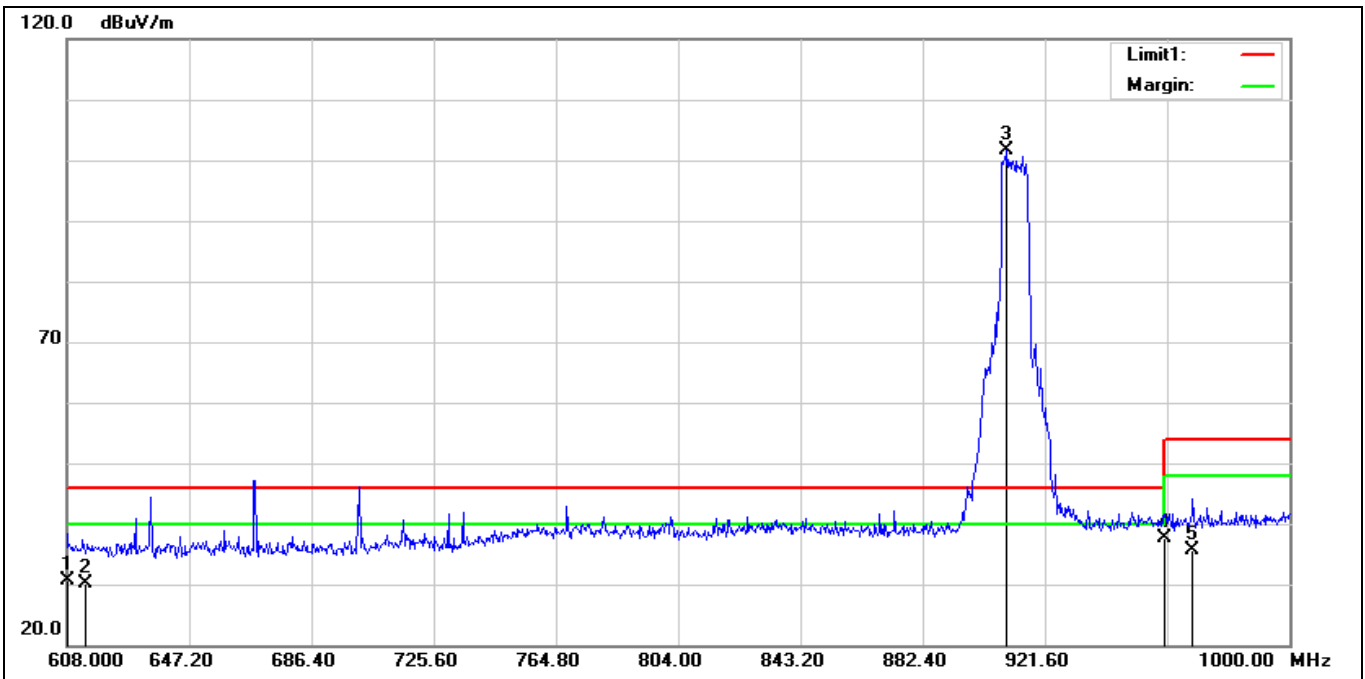


Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 907 MHz		
Remark:			



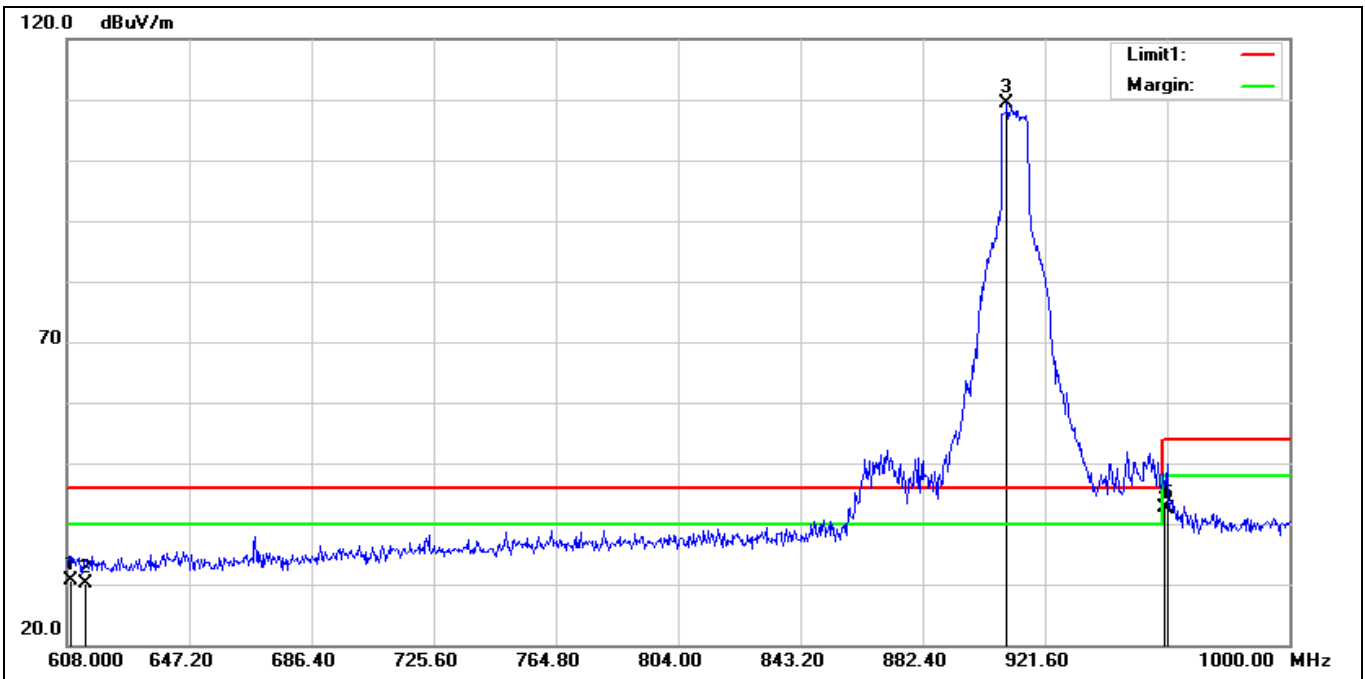
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	609.1760	31.05	0.69	31.74	46.00	-14.26	QP
2	614.0000	30.58	0.71	31.29	46.00	-14.71	QP
3*	907.4880	106.29	5.66	111.95	46.00	65.95	peak
4!	960.0000	34.29	6.55	40.84	46.00	-5.16	QP
5	961.1920	33.21	6.58	39.79	54.00	-14.21	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 912 MHz		
Remark:			



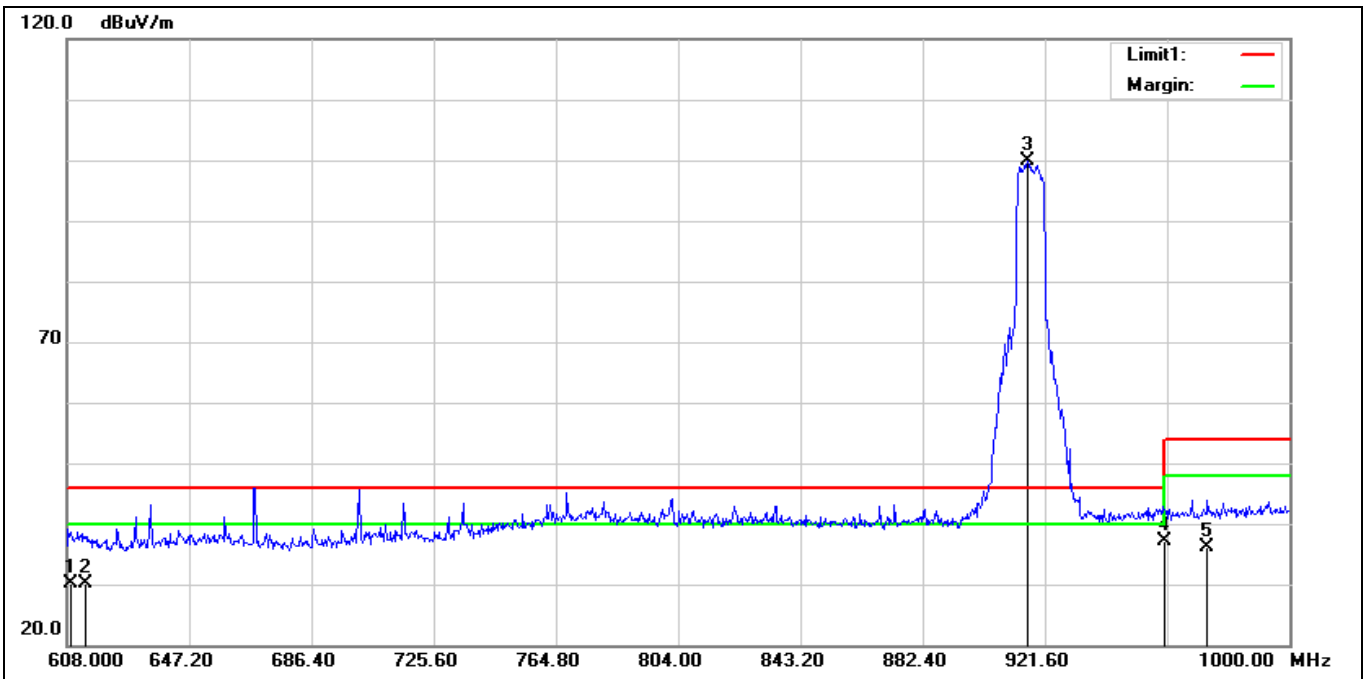
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	608.0000	29.83	0.69	30.52	46.00	-15.48	QP
2	614.0000	29.40	0.71	30.11	46.00	-15.89	QP
3*	909.4480	95.86	5.70	101.56	46.00	55.56	peak
4	960.0000	31.01	6.55	37.56	46.00	-8.44	QP
5	969.0320	28.94	6.75	35.69	54.00	-18.31	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 912 MHz		
Remark:			



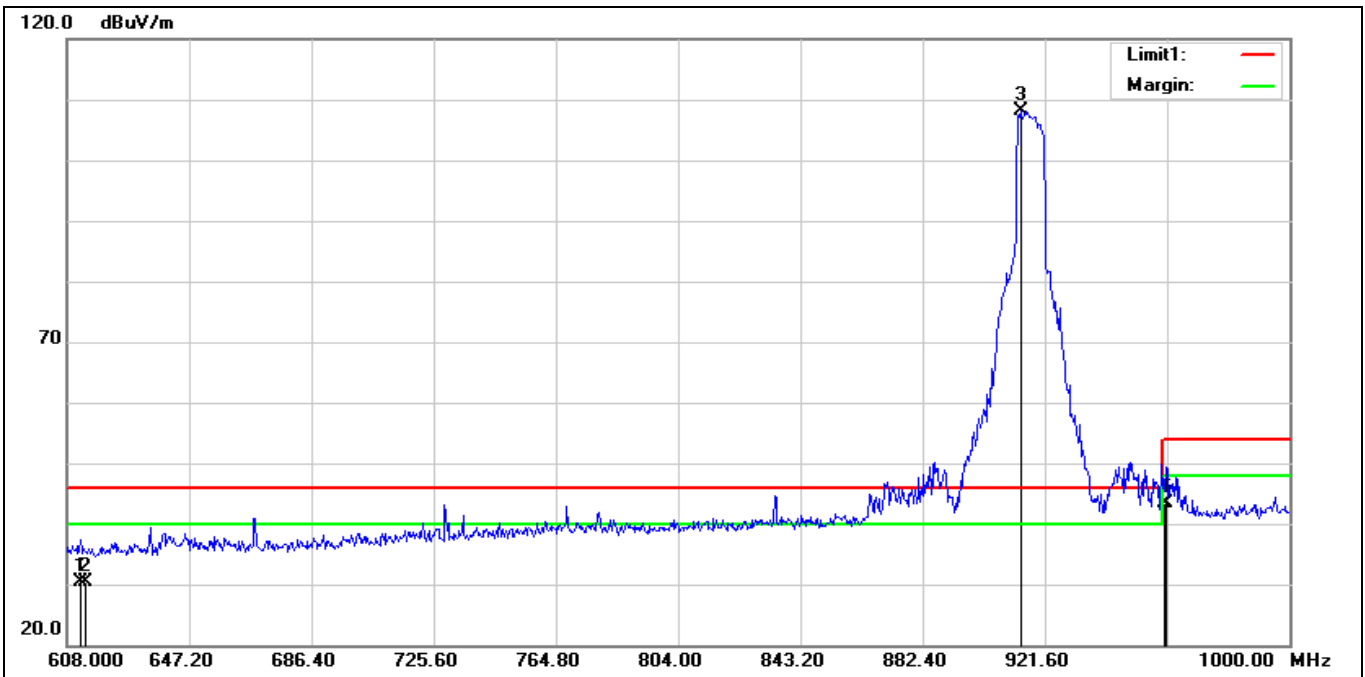
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	609.1760	29.87	0.69	30.56	46.00	-15.44	QP
2	614.0000	29.36	0.71	30.07	46.00	-15.93	QP
3*	909.4480	103.73	5.70	109.43	46.00	63.43	peak
4!	960.0000	36.06	6.55	42.61	46.00	-3.39	QP
5	960.8000	35.77	6.56	42.33	54.00	-11.67	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 917 MHz		
Remark:			



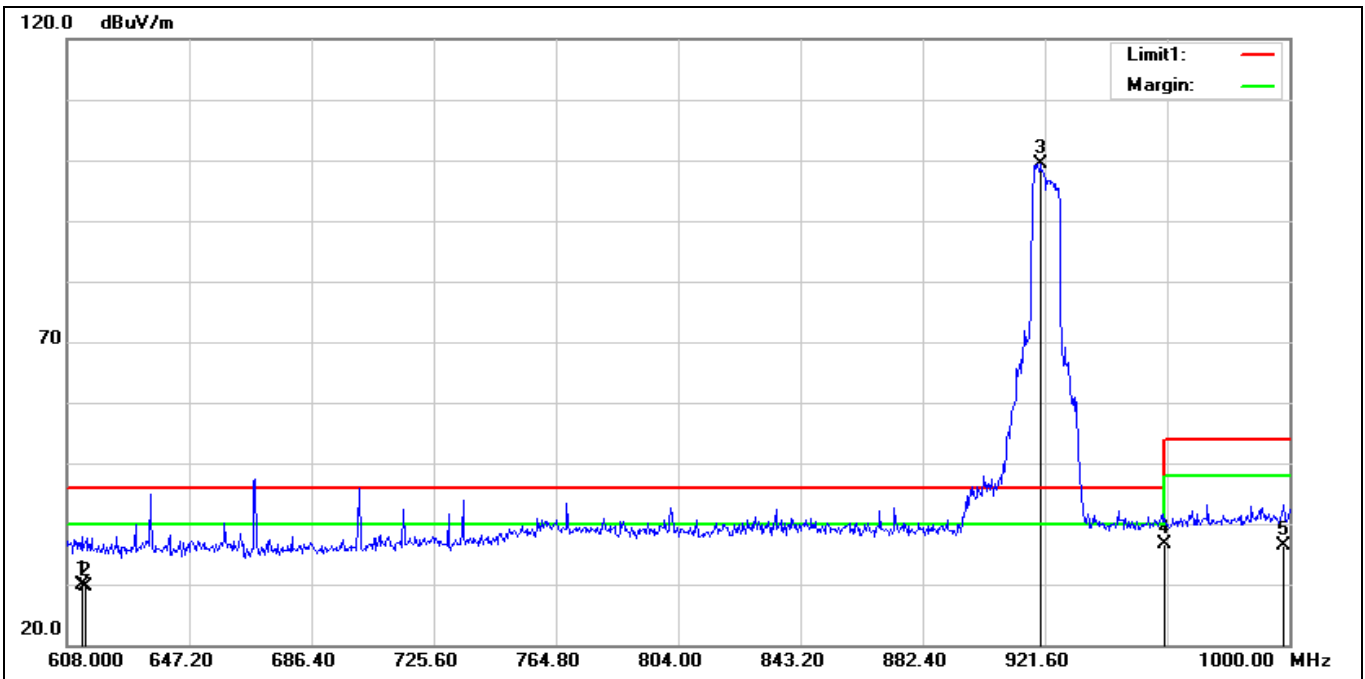
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	609.1760	29.45	0.69	30.14	46.00	-15.86	QP
2	614.0000	29.31	0.71	30.02	46.00	-15.98	QP
3*	916.1120	94.04	5.80	99.84	46.00	53.84	peak
4	960.0000	30.62	6.55	37.17	46.00	-8.83	QP
5	973.7360	29.20	6.84	36.04	54.00	-17.96	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 917 MHz		
Remark:			



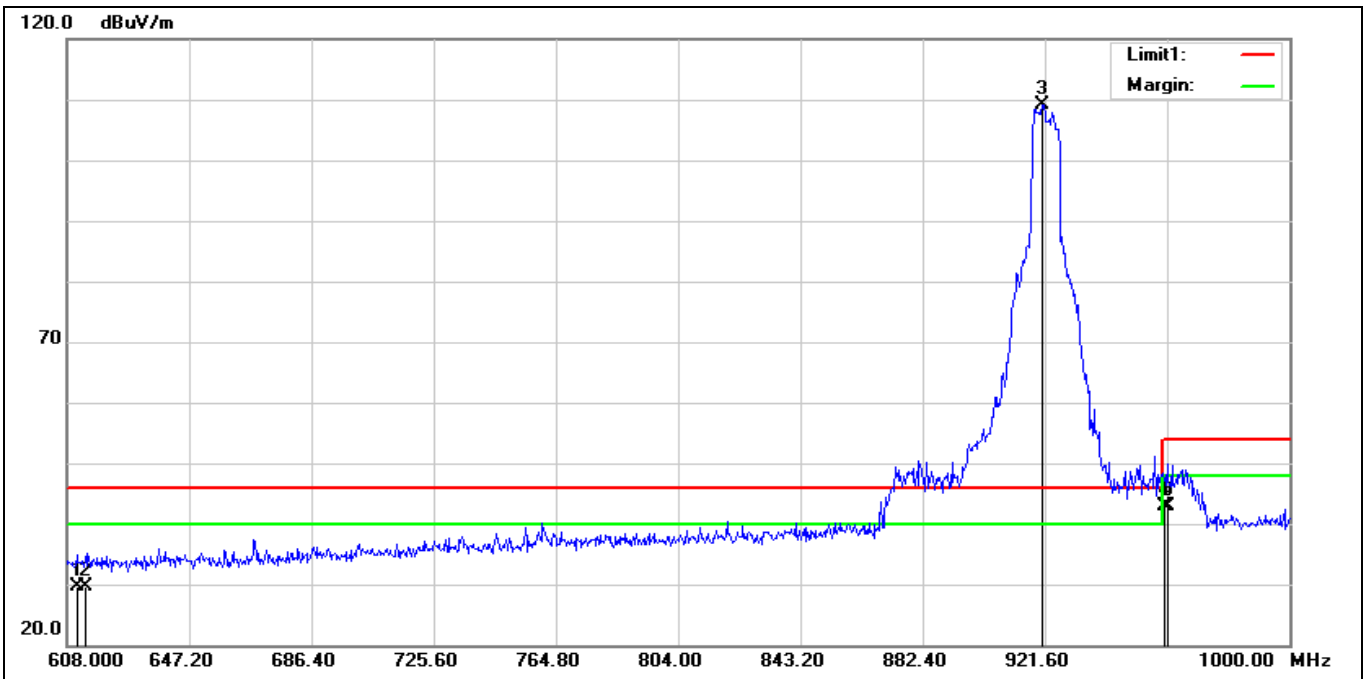
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	612.3120	29.65	0.71	30.36	46.00	-15.64	QP
2	614.0000	29.66	0.71	30.37	46.00	-15.63	QP
3*	913.7600	102.41	5.77	108.18	46.00	62.18	peak
4!	960.0000	36.95	6.55	43.50	46.00	-2.50	QP
5	960.4080	36.77	6.56	43.33	54.00	-10.67	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 10M 922 MHz		
Remark:			



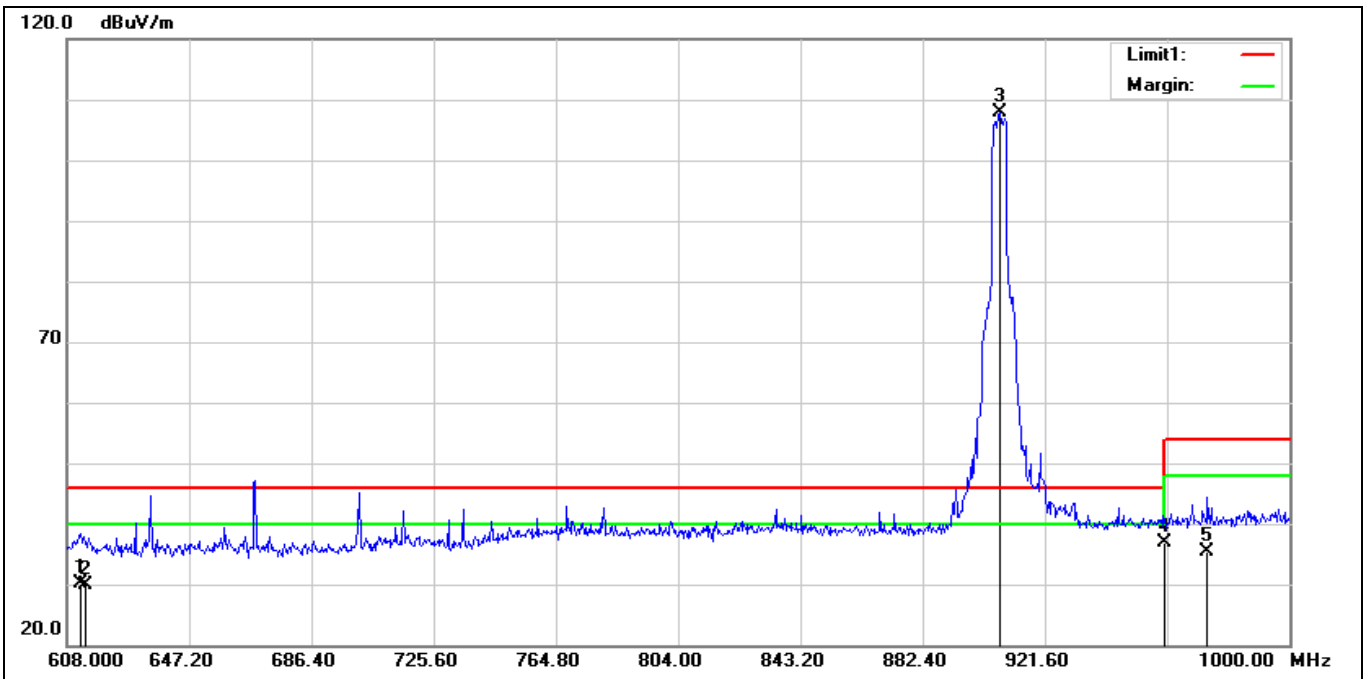
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	612.7040	29.19	0.71	29.90	46.00	-16.10	QP
2	614.0000	29.03	0.71	29.74	46.00	-16.26	QP
3*	920.0320	93.55	5.86	99.41	46.00	53.41	peak
4	960.0000	30.02	6.55	36.57	46.00	-9.43	QP
5	998.0400	28.90	7.36	36.26	54.00	-17.74	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 10M 922 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.1360	28.98	0.70	29.68	46.00	-16.32	QP
2	614.0000	28.94	0.71	29.65	46.00	-16.35	QP
3*	920.8160	103.22	5.88	109.10	46.00	63.10	peak
4!	960.0000	36.40	6.55	42.95	46.00	-3.05	QP
5	960.8000	36.22	6.56	42.78	54.00	-11.22	QP

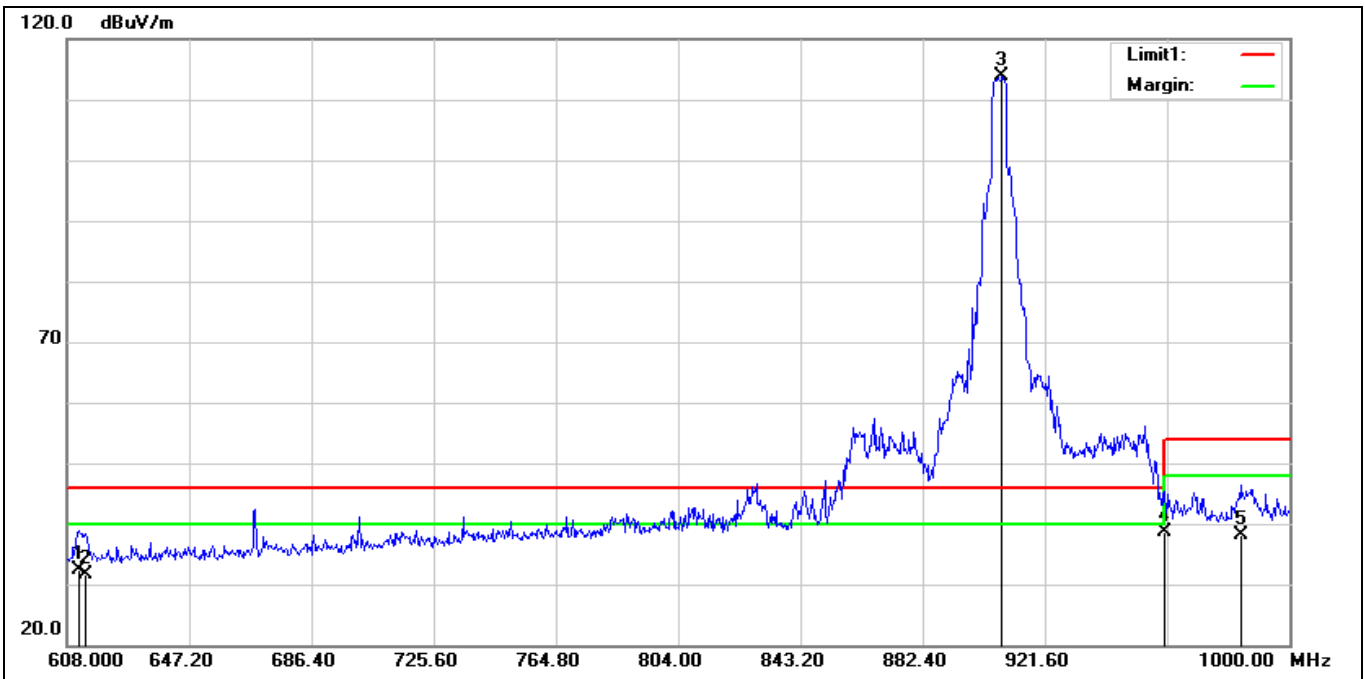
Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 907 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	612.3120	29.34	0.71	30.05	46.00	-15.95	QP
2	614.0000	29.19	0.71	29.90	46.00	-16.10	QP
3*	907.0960	102.23	5.66	107.89	46.00	61.89	peak
4	960.0000	30.31	6.55	36.86	46.00	-9.14	QP
5	973.7360	28.55	6.84	35.39	54.00	-18.61	QP

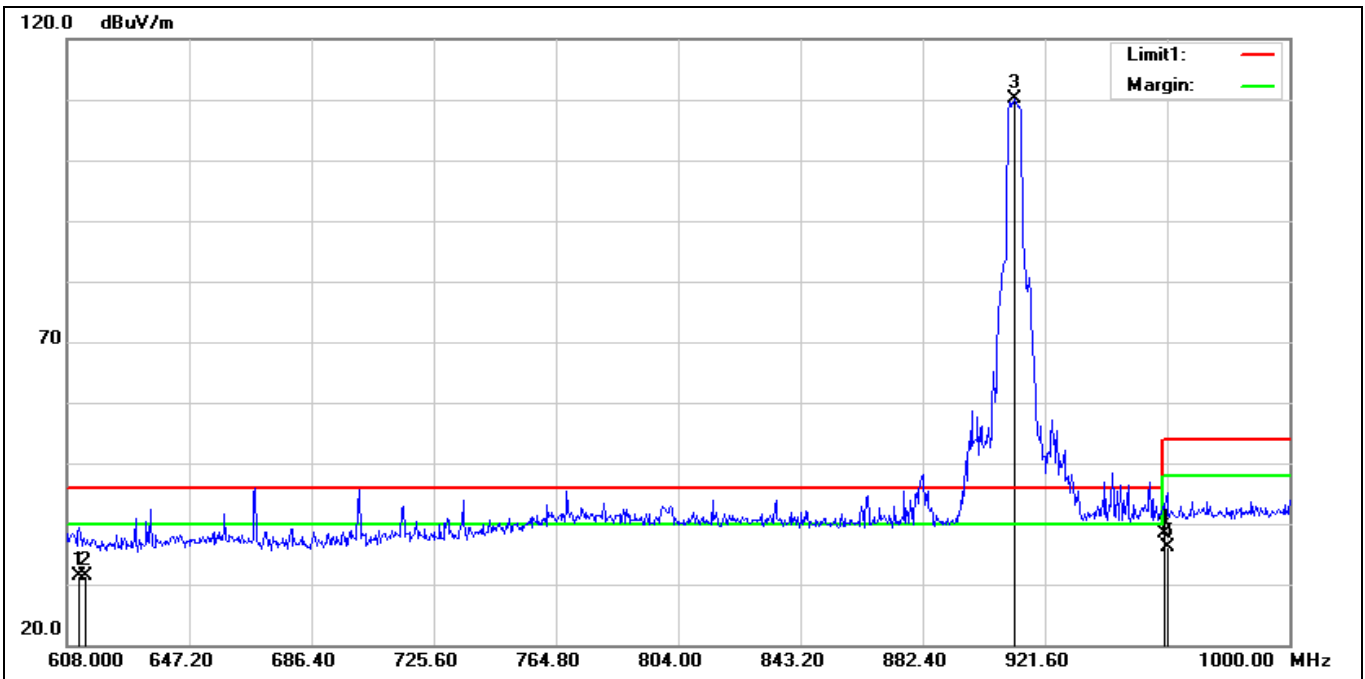


Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 907 MHz		
Remark:			



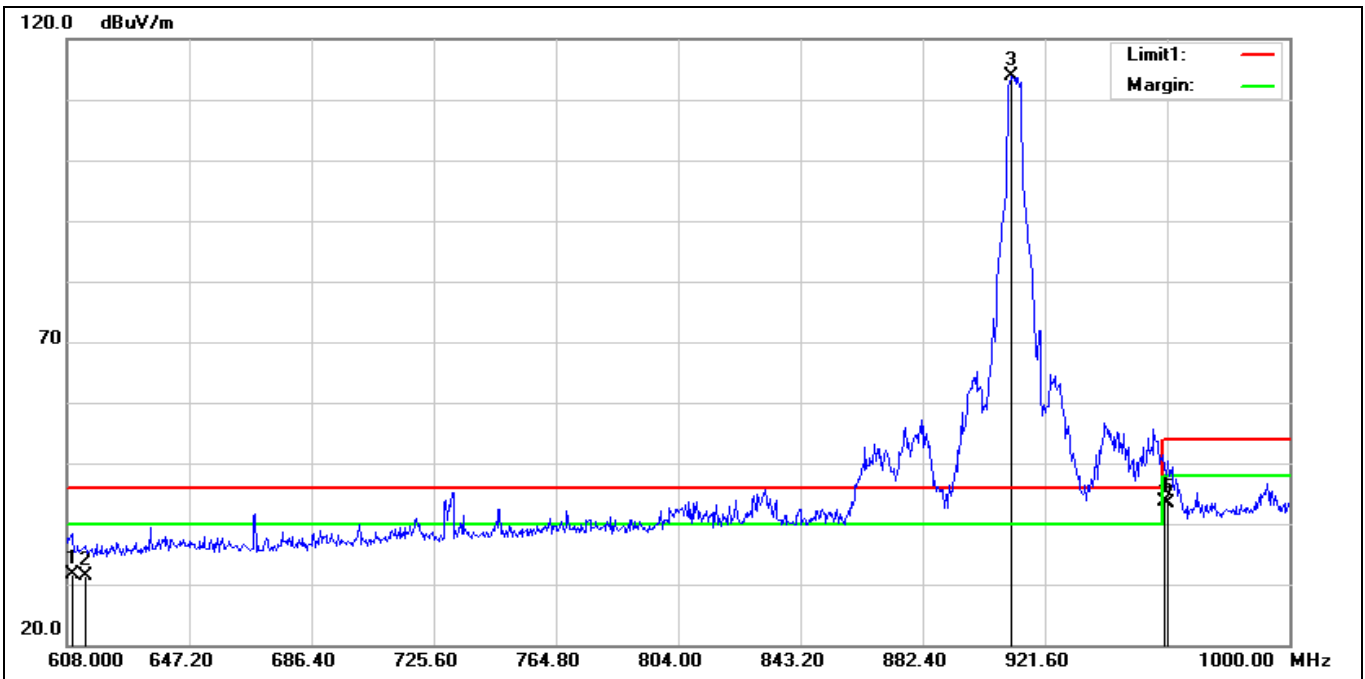
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.9200	31.63	0.71	32.34	46.00	-13.66	QP
2	614.0000	31.01	0.71	31.72	46.00	-14.28	QP
3*	907.8800	108.28	5.67	113.95	46.00	67.95	peak
4	960.0000	31.97	6.55	38.52	46.00	-7.48	QP
5	984.3200	31.05	7.07	38.12	54.00	-15.88	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 912 MHz		
Remark:			



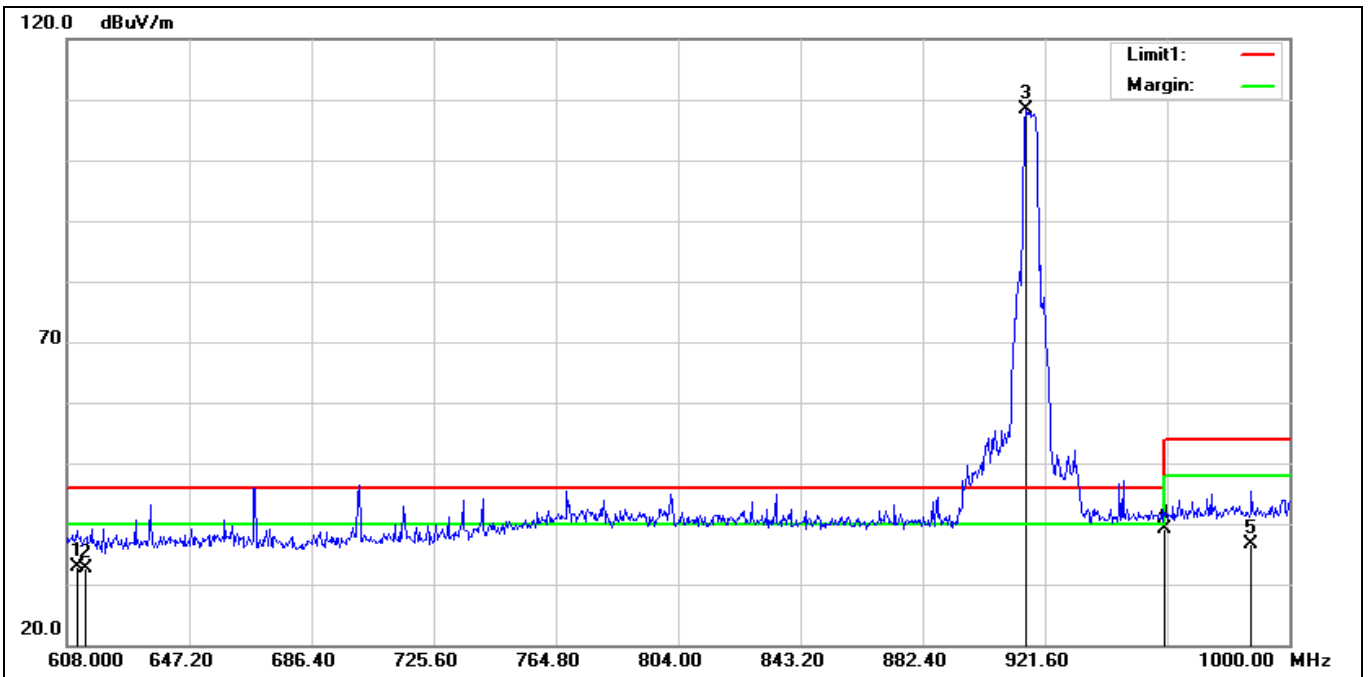
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.9200	30.65	0.71	31.36	46.00	-14.64	QP
2	614.0000	30.72	0.71	31.43	46.00	-14.57	QP
3*	911.8000	104.50	5.74	110.24	46.00	64.24	peak
4	960.0000	31.86	6.55	38.41	46.00	-7.59	QP
5	960.8000	29.60	6.56	36.16	54.00	-17.84	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 912 MHz		
Remark:			



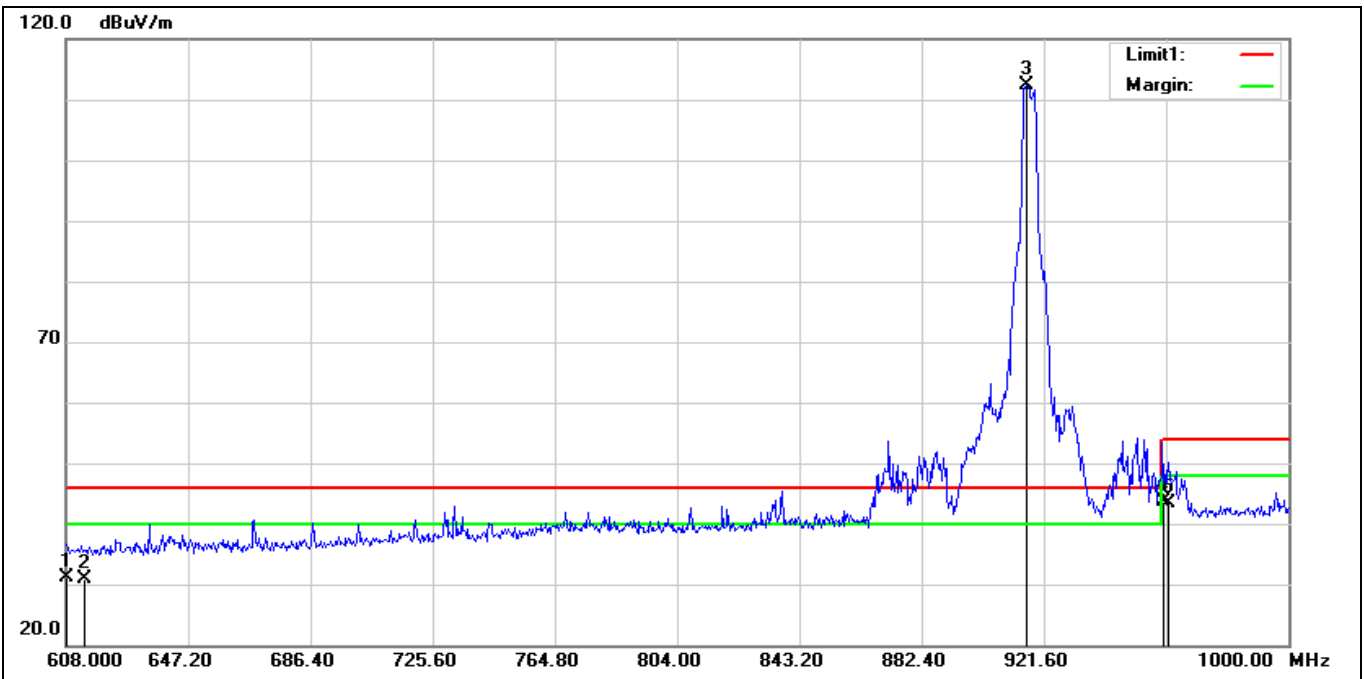
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	609.5680	30.84	0.69	31.53	46.00	-14.47	QP
2	614.0000	30.70	0.71	31.41	46.00	-14.59	QP
3*	910.6240	108.12	5.72	113.84	46.00	67.84	peak
4!	960.0000	37.06	6.55	43.61	46.00	-2.39	QP
5	961.1920	36.73	6.58	43.31	54.00	-10.69	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 917 MHz		
Remark:			



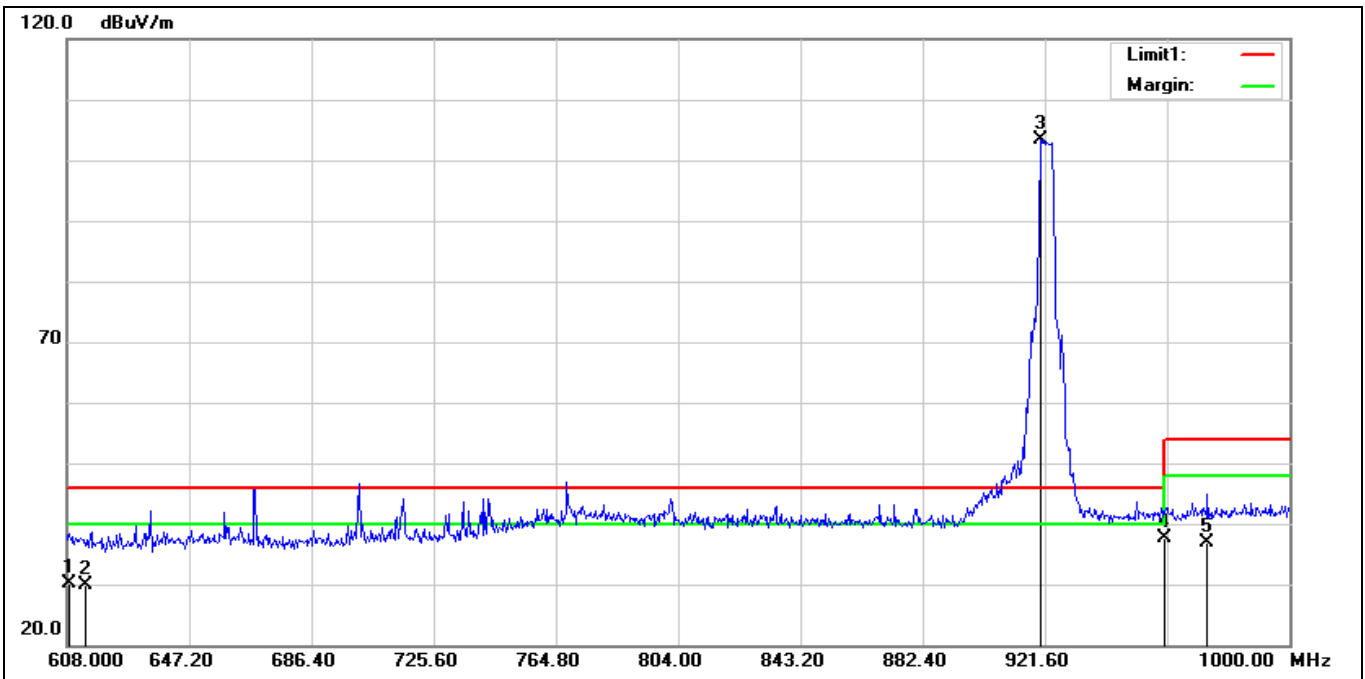
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.1360	32.09	0.70	32.79	46.00	-13.21	QP
2	614.0000	31.89	0.71	32.60	46.00	-13.40	QP
3*	915.7200	102.61	5.79	108.40	46.00	62.40	peak
4	960.0000	32.64	6.55	39.19	46.00	-6.81	QP
5	987.8480	29.48	7.15	36.63	54.00	-17.37	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 917 MHz		
Remark:			



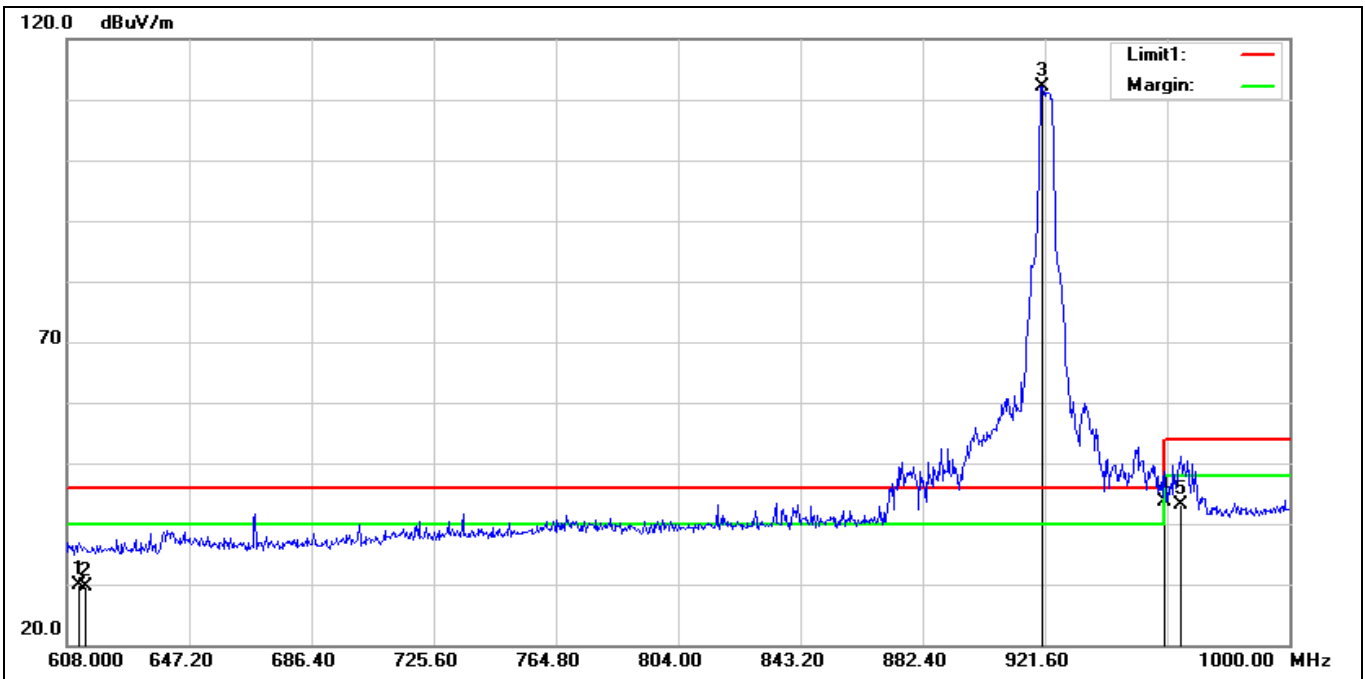
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	608.3920	30.39	0.68	31.07	46.00	-14.93	QP
2	614.0000	30.24	0.71	30.95	46.00	-15.05	QP
3*	916.1120	106.63	5.80	112.43	46.00	66.43	peak
4!	960.0000	36.97	6.55	43.52	46.00	-2.48	QP
5	961.5840	36.87	6.58	43.45	54.00	-10.55	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	802.11g 5M 922 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	608.7840	29.45	0.69	30.14	46.00	-15.86	QP
2	614.0000	29.20	0.71	29.91	46.00	-16.09	QP
3*	920.0320	97.57	5.86	103.43	46.00	57.43	peak
4	960.0000	30.96	6.55	37.51	46.00	-8.49	QP
5	973.7360	30.07	6.84	36.91	54.00	-17.09	QP

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	802.11g 5M 922 MHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	611.9200	29.15	0.71	29.86	46.00	-16.14	QP
2	614.0000	28.92	0.71	29.63	46.00	-16.37	QP
3*	920.8160	106.37	5.88	112.25	46.00	66.25	peak
4!	960.0000	37.16	6.55	43.71	46.00	-2.29	QP
5	965.1120	36.59	6.66	43.25	54.00	-10.75	QP

---END---