

# WOODS AND GO DESIGN SL

## TEST REPORT

**SCOPE OF WORK**

EMC TESTING-93404-182428

**REPORT NUMBER**

211025147GZU-001

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FCC WIFI-d

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## TEST REPORT

Applicant Name & : WOODS AND GO DESIGN SL  
Address : C/ poligono 4, p18-46722, BENIARJO, Spain  
Manufacturing Site : Dongguan Cofar Electrical Appliances Tech Co., Ltd  
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Village, Dongkeng Town, Dongguan City  
Intertek Report No: 211025147GZU-001  
FCC ID: 2A3BK-26WAGS8339

## Test standards

**47 CFR PART 15 Subpart C: 2019 section 15.247**

## Sample Description

Product : Thermo Cooker  
Model No. : 93404-182428  
Electrical Rating : 120V, 60Hz  
**Serial No.** : Not Labeled  
Date Received : 13 September 2021  
Date Test : 15 September 2021-26 October 2021  
Conducted

Prepared and Checked By



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Engineer

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## TEST REPORT

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## TEST REPORT

### 1.0 TEST RESULT SUMMARY

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203	FCC PART 15 C section 15.247 (c) and Section 15.203	PASS
6 dB Bandwidth (DTS bandwidth)	FCC PART 15 C section 15.247 (a)(2)	ANSI C63.10: Clause 11.8	PASS
Maximum Average Conducted Output Power	FCC PART 15 C section 15.247(b)(3)	ANSI C63.10: Clause 11.9.2.3.1	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e)	ANSI C63.10: Clause 11.10.2	PASS
Out of Band Conducted Emissions	FCC PART 15 C section 15.209 & 15.247(d)	ANSI C63.10: Clause 11.11	PASS
Out of Band Radiated Emission	FCC PART 15 C section 15.209 & 15.247(d)	ANSI C63.10: Clause 11.11, 6.4, 6.5 and 6.6	N/A
Radiated Emissions in Restricted Bands	FCC PART 15 C section 15.209 & 15.247(d)	ANSI C63.10: Clause 11.12.1, 6.4, 6.5 and 6.6	PASS
Band Edges Measurement	FCC PART 15 C section 15.247 (d) & 15.205	ANSI C63.10: Clause 11.11 and 11.13	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS
<b>Remark:</b> N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report			

## TEST REPORT

### 2.0 General Description

#### 2.1 Product Description

Operating Frequency:	2412 MHz to 2462 MHz for 802.11b/g/n(HT20)
Type of Modulation:	2422 MHz to 2452 MHz for 802.11n(HT40)
	802.11b: DSSS(CCK/QPSK/BPSK)
	802.11g: OFDM(BPSK/QPSK/16QAM/64QAM)
	802.11n: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate:	802.11b :1/2/5.5/11 Mbps
	802.11g :6/9/12/18/24/36/48/54 Mbps
	802.11n(HT20): 6.5/13/19.5/26/39/52/58.5/65 Mbps/72.2Mbps
	802.11n(HT40): 13.5/27/40.5/54/81/108/121.5/135/150 Mbps
Number of Channels	11 Channels for 802.11b/g/n(HT20)
	7 Channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type	FPC antenna
EUT Power Supply:	120VAC 60Hz
Power cord:	N/A

EUT channels and frequencies list:

For 802.11b/g/n(HT20): test frequencies are lowest channel 1: 2412 MHz, middle channel 6: 2437 MHz and highest channel 11: 2462 MHz.

For 802.11n(HT40): test frequencies are lowest channel 3: 2422 MHz, middle channel 6: 2437 MHz and highest channel 9: 2452 MHz.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	

#### 2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems (WIFI transmitter portion)

## TEST REPORT

Remaining portions are subject to the following procedures:

1. Receiver portion of WIFI: exempt from technical requirement of this Part.

### 2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

### 2.4 Test Facility

All tests were performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

Except Conducted Emissions was performed at:

Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2.  
Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

## 3.0 System Test Configuration

### 3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, AC power line was manipulated to produce worst case emissions. It was powered by AC 120V supply.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

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For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

### 3.2 EUT Exercising Software

The product enters the engineering mode by setting the fixed frequency.

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### 3.3 Special Accessories

No special accessories used.

### 3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	20 dB Bandwidth	2.3%
	6dB Bandwidth	
	99% Bandwidth	
2	Carrier Frequencies Separated	2.3%
3	Dwell Time	1.2%
4	Maximum Peak Conducted Output Power	1.5dB
5	Peak Power Spectral Density	1.5dB
6	Out of Band Conducted Emissions	1.5dB
7	Band edges measurement	1.5dB
8	Radiated Emissions	4.7 dB (25 MHz-1 GHz)
		4.8 dB (1 GHz-18 GHz)
		5.21dB (18GZH-26GHz)
9	Conducted Emissions at Mains Terminals	2.58dB
10	Temperature	0.5 °C
11	Humidity	0.4 %
12	Time	1.2%

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.

The measurement uncertainty is given with a confidence of 95%, k=2.

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

### 3.5 Equipment Modification

Any modifications installed previous to testing by WOODS AND GO DESIGN SL will be incorporated in each production model sold / leased in the United States.



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No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

### 3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

#### Support Equipment

Description	Manufacturer	Model No.	SN/Version/Rating	Supplied by
power supply board	--	--	120VAC	Client

#### Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m	Intertek
cable	--	plug	0.4 m	Intertek

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### 4.0 Measurement Results

#### 4.1 Antenna Requirement

Standard requirement:

15.203 requirement:

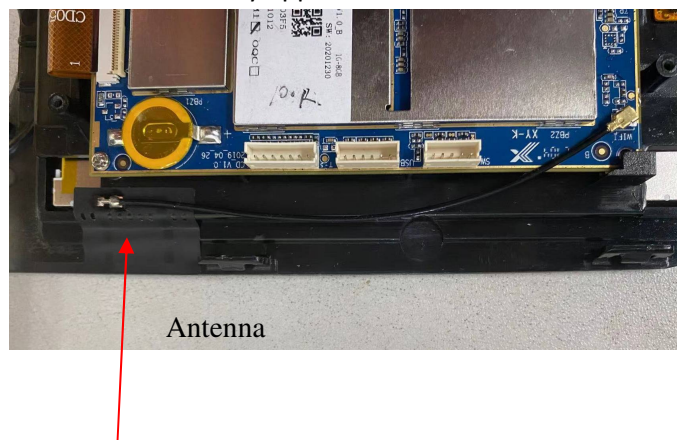
For intentional device. According to 15.203 an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is 2.5 dBi as declared by applicant.

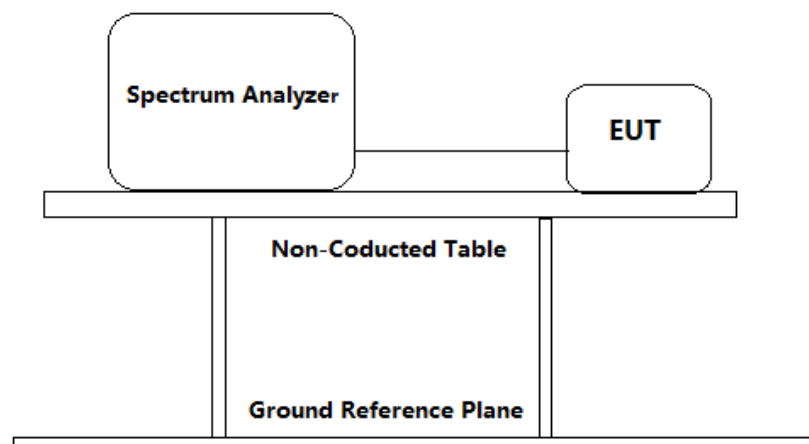


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### 4.2 6 dB Bandwidth (DTS bandwidth)

Test Requirement:	FCC Part 15 C section 15.247 (a)(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10: Clause 11.8
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyzer:
  - a) Set RBW = 100 kHz
  - b) Set the VBW  $\geq [3 \times \text{RBW}]$
  - c) Detector = peak.
  - d) Trace mode = max hold.
  - e) Sweep = auto couple
  - f) Allow the trace to stabilize.
  - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
  - h) Span=2\*BW~5\*BW
3. Repeat until all the test status is investigated.

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4. Report the worst case.

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured 6dB bandwidth (MHz)	Limit	Result
1	2412	802.11b	1 Mbps	9.20	≥500KHz	Pass
6	2437		1 Mbps	10.07		Pass
11	2462		1 Mbps	10.07		Pass
1	2412	802.11g	6 Mbps	16.50		Pass
6	2437		6 Mbps	16.44		Pass
11	2462		6 Mbps	16.44		Pass
1	2412	802.11n (HT20)	6.5 Mbps	17.66		Pass
6	2437		6.5 Mbps	17.71		Pass
11	2462		6.5 Mbps	17.71		Pass
3	2422	802.11n (HT40)	13.5 Mbps	36.47		Pass
6	2437		13.5 Mbps	36.47		Pass
9	2452		13.5 Mbps	36.47		Pass

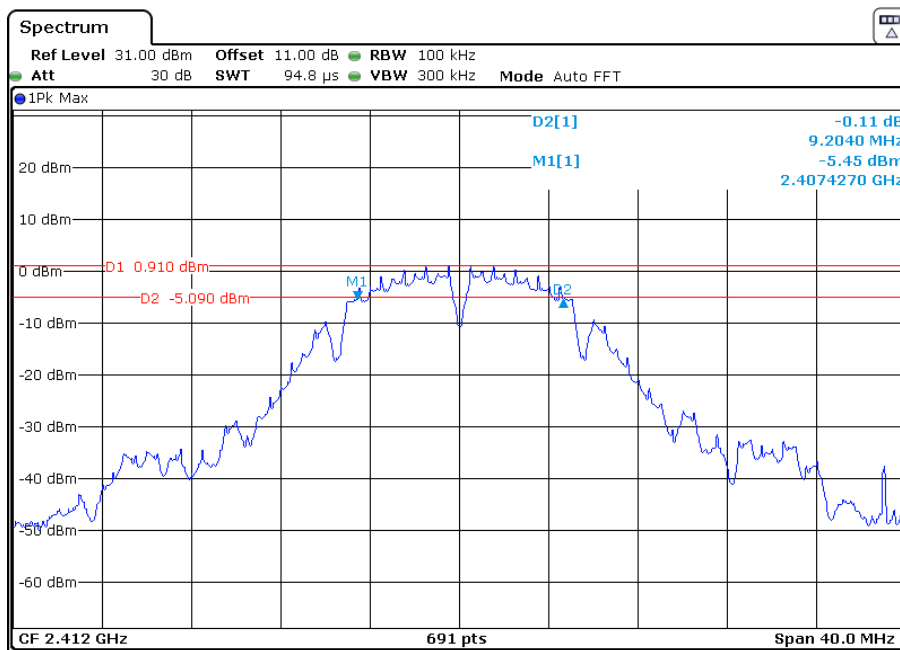
Test result: The unit does meet the FCC requirements.

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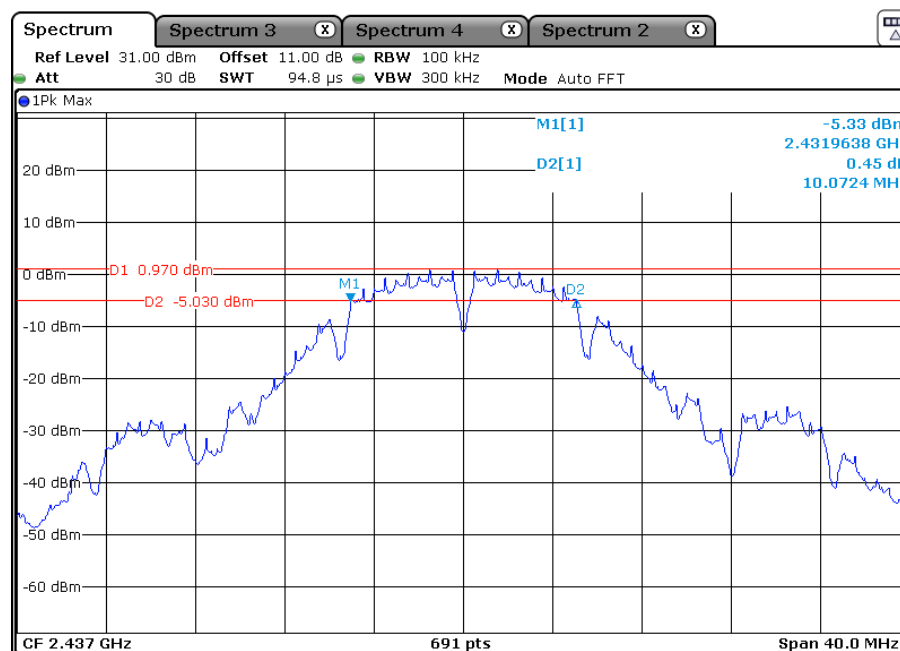
Result plot as follows:

802.11b mode with 1Mbps data rate

Channel 1: 2.412GHz

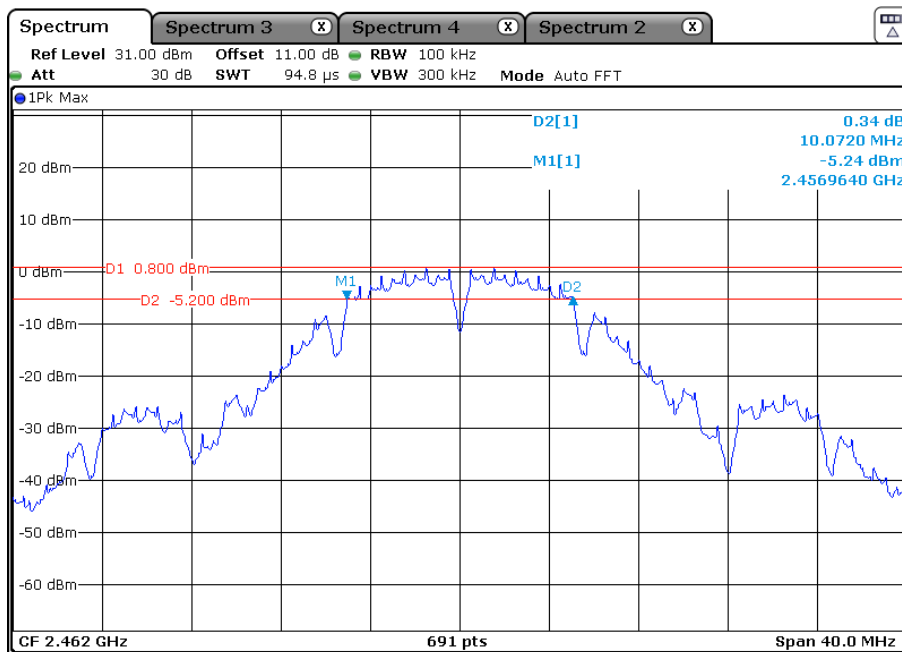


Channel 6: 2.437GHz:



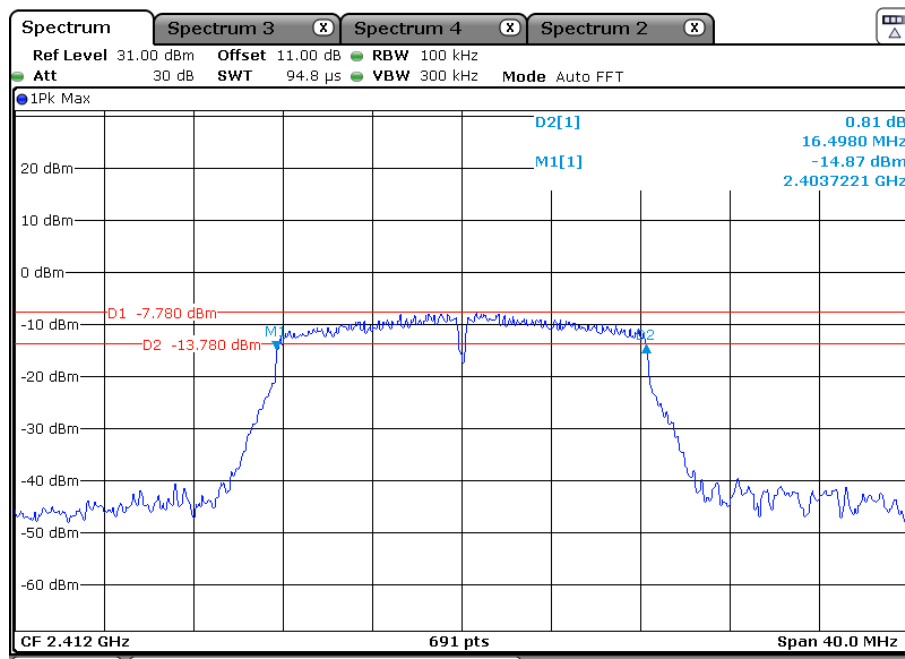
## TEST REPORT

Channel 11: 2.462GHz:



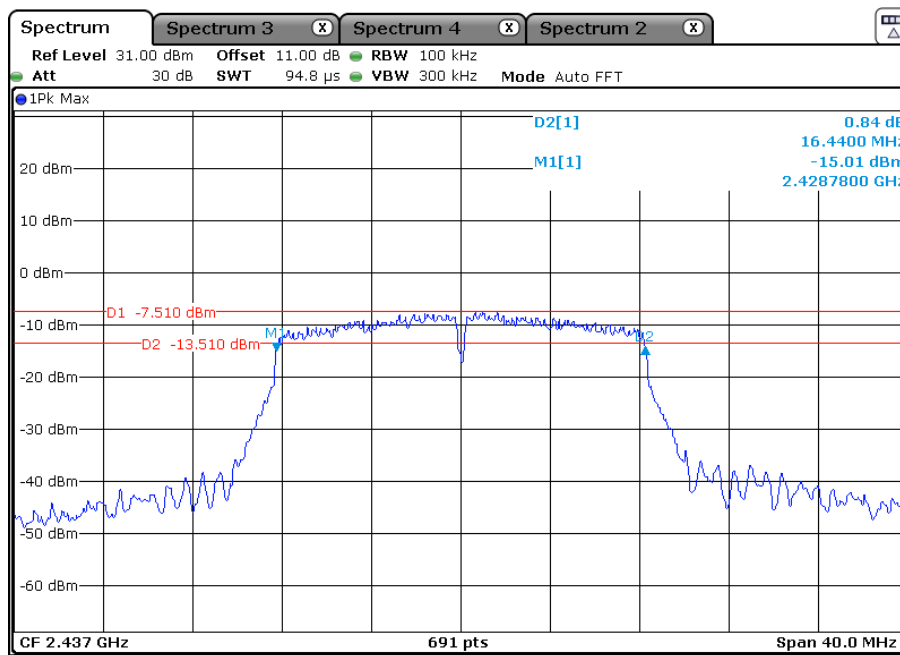
802.11g mode with 6Mbps data rate

Channel 1: 2.412GHz:

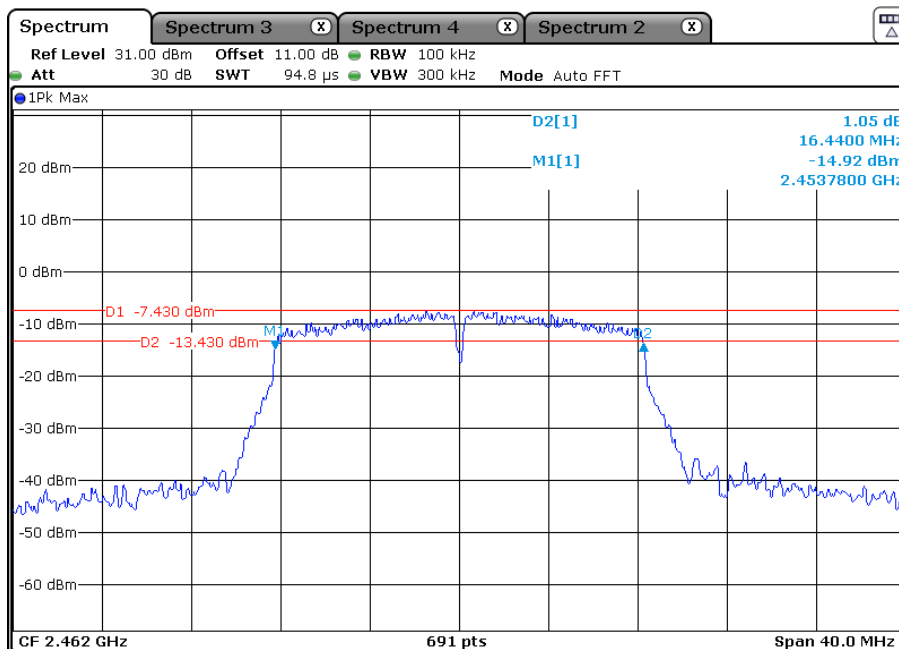


## TEST REPORT

Channel 6: 2.437GHz:



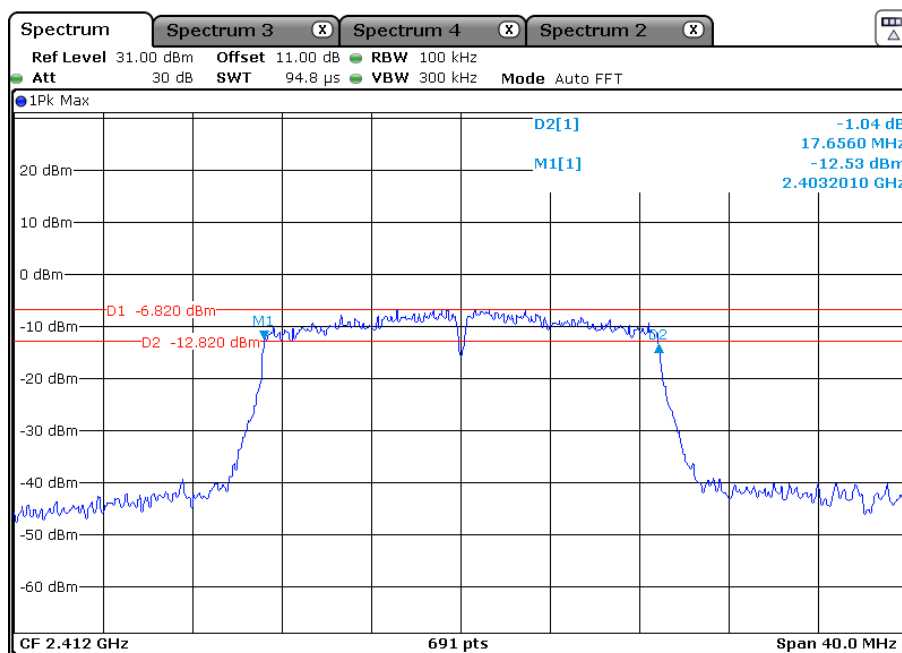
Channel 11: 2.462GHz:



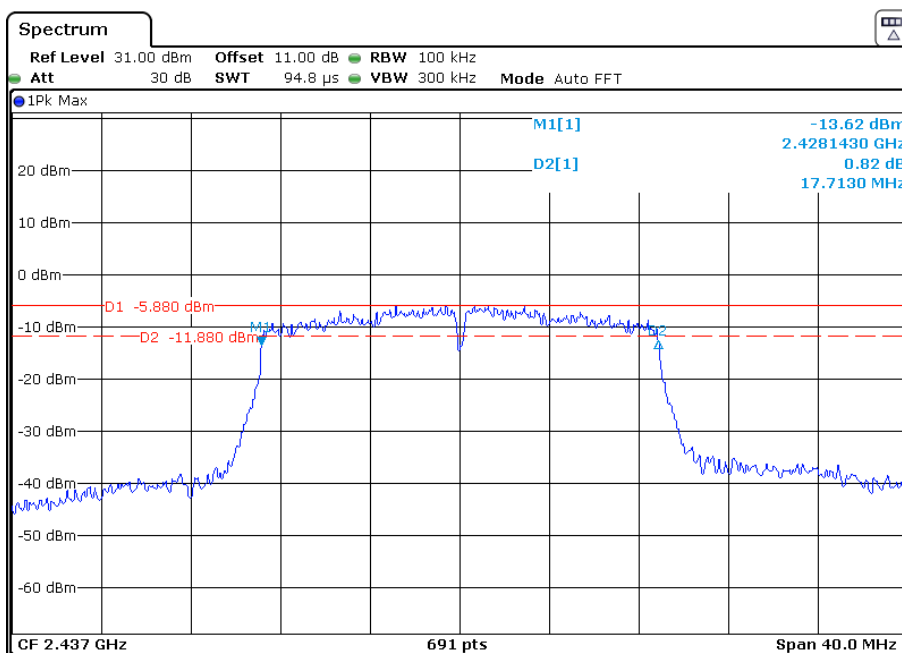
## TEST REPORT

802.11n(HT20) mode with 6.5Mbps data rate

Channel 1: 2.412GHz:



Channel 6: 2.437GHz:

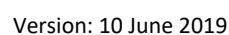




Channel 11: 2.462GHz:

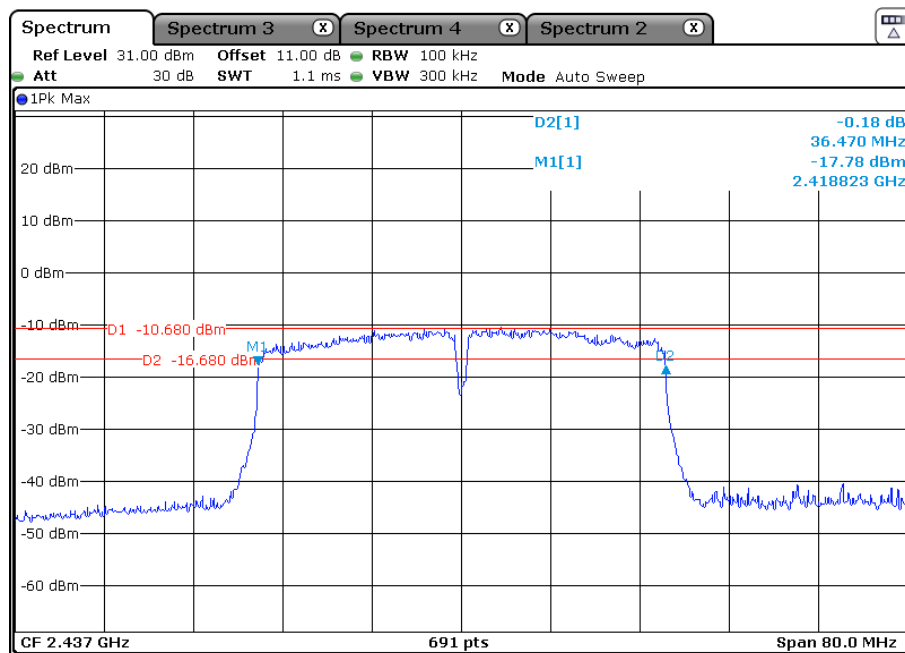


Channel 3: 2.422GHz:

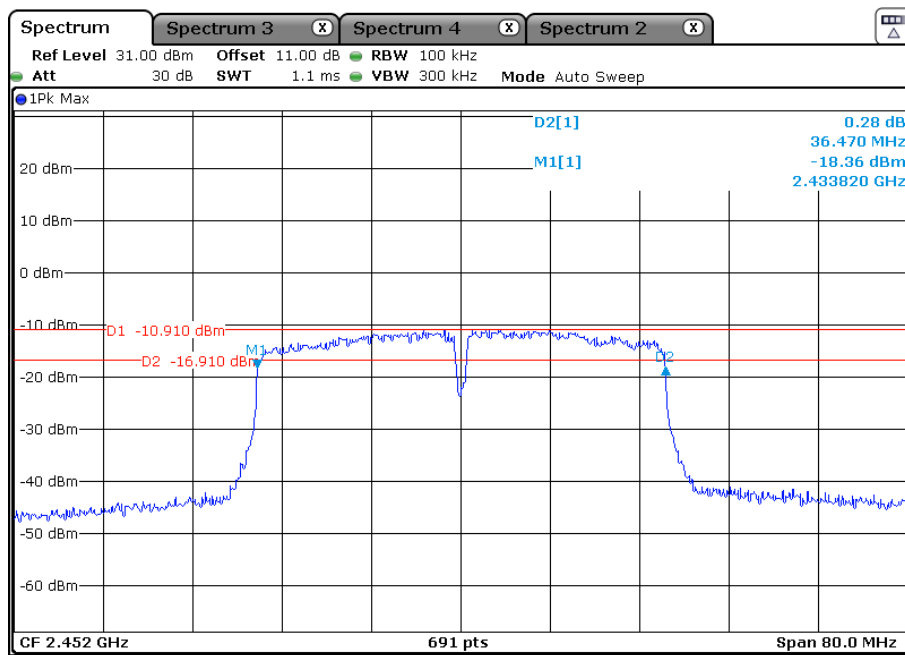


## TEST REPORT

Channel 6: 2.437GHz:



Channel 9: 2.452GHz:



## TEST REPORT

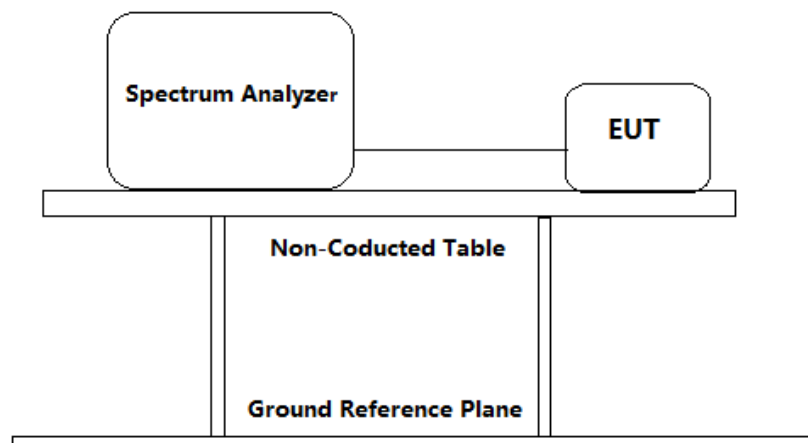
### 4.3 Duty Cycle

Test Requirement: FCC KDB 558074 D01 15.247 Meas Guidance v05r02, Clause 6

Test Method: ANSI C63.10: Clause 11.6

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1dB, with a 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyser:
  - a) Set the center frequency of the instrument to the center frequency of the transmission. Set the VBW  $\geq$  [3 x RBW]
  - b) Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Span = Zero span
  - c) Set VBW  $\geq$  RBW. Set detector = peak or average. Trace mode = Free run
3. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

## TEST REPORT

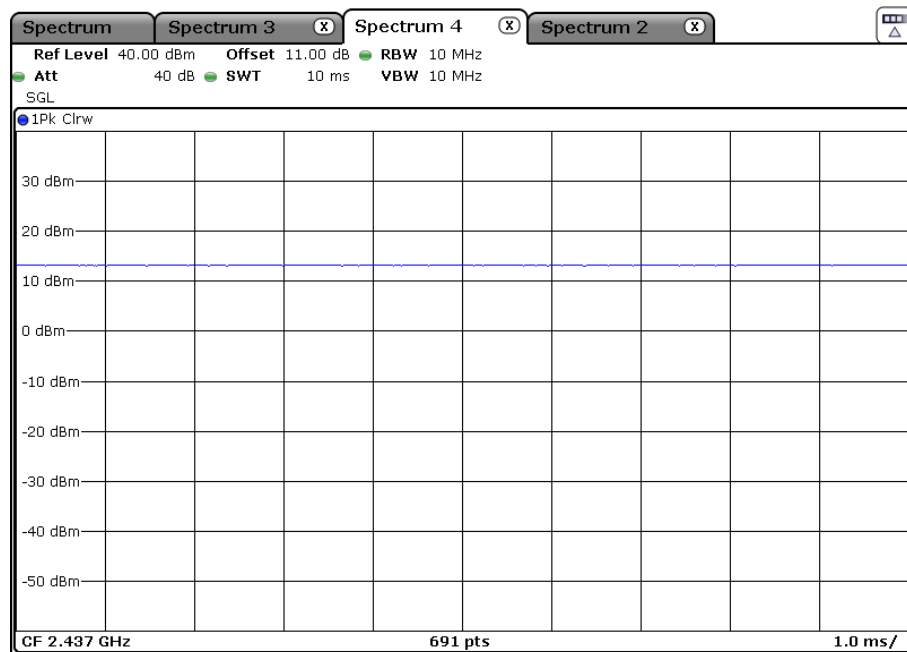
### Test result:

Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
6	2437	802.11b	100	100	100
6	2437	802.11g	100	100	100
6	2437	802.11n (HT20)	100	100	100
6	2437	802.11n (HT40)	100	100	100

Result plot as follows:

802.11b mode

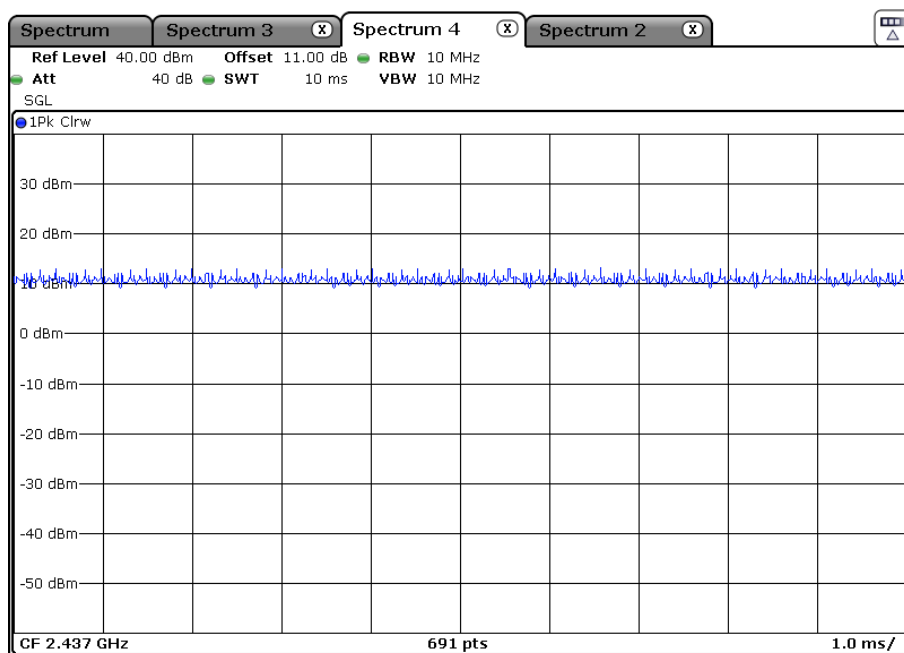
Channel 6: 2437 MHz:



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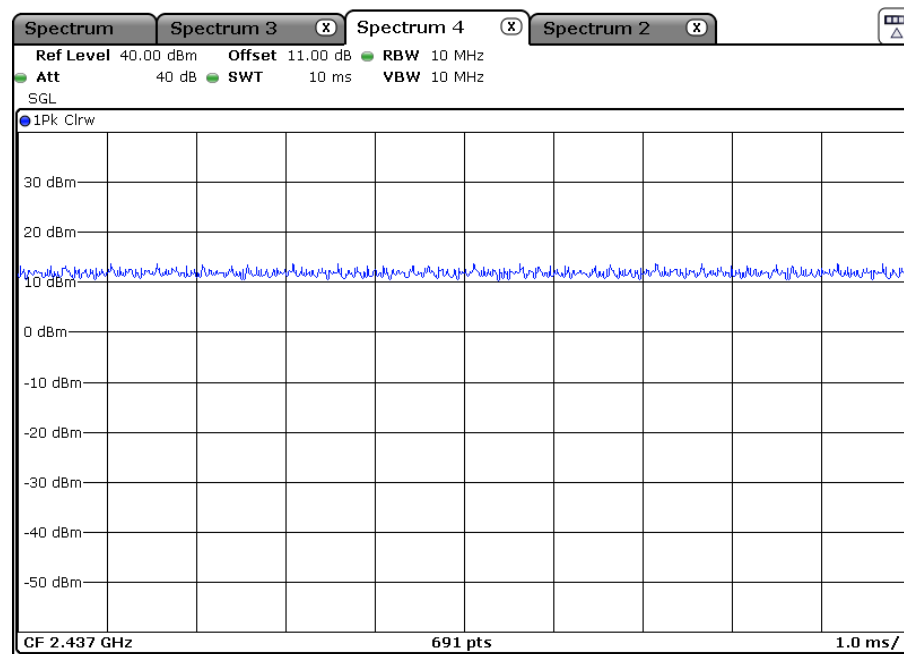
802.11g mode

Channel 6: 2437 MHz:



802.11n(HT 20) mode

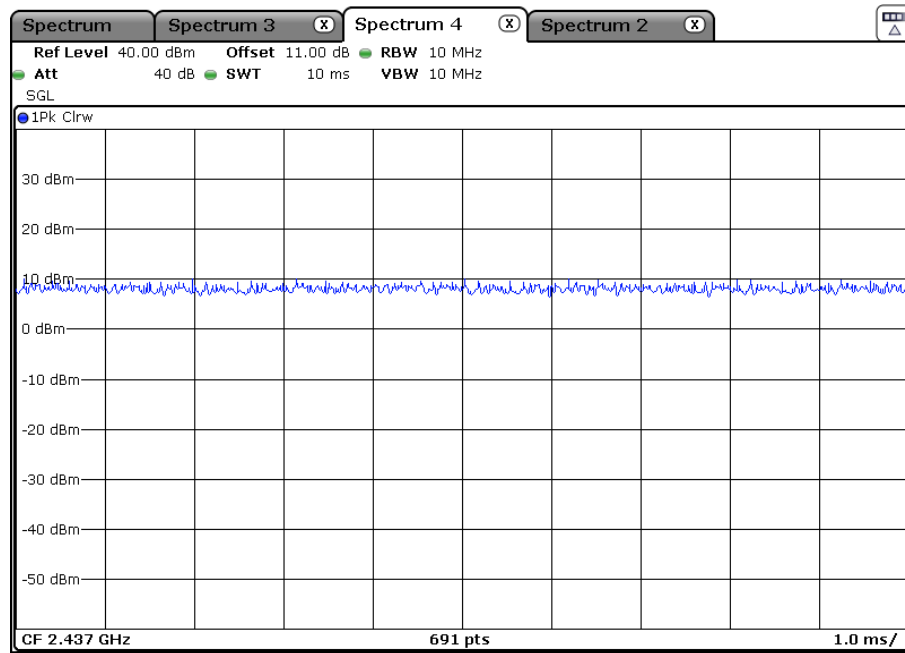
Channel 6: 2437 MHz:



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802.11n(HT 40) mode

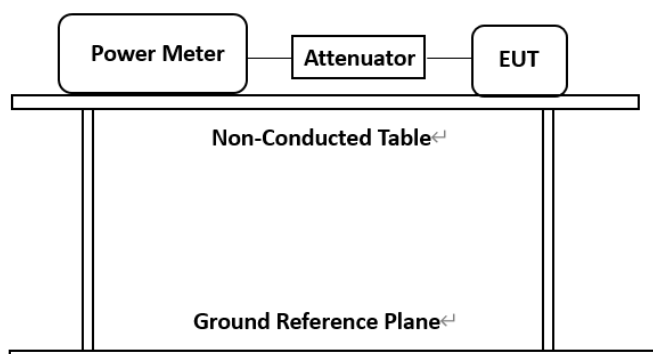
Channel 6: 2437 MHz:



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### 4.4 Maximum Average Conducted Output Power

Test Requirement:	FCC Part 15 C section 15.247 (b)(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b) (1), (b) (2), and (b) (3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Method:	ANSI C63.10: Clause 11.9.2.3.1
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



#### Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the power meter.
2. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
3. If the EUT is transmitting at all times, it must be transmitting at its maximum power control level.
4. If the EUT does not transmit continuously, measure the duty cycle and adjust the measurement in dBm by adding  $10\log(1/x)$  where x is the duty cycle of transmitter output signal. This measurement is an average over both the ON and OFF periods of the transmitter.
5. Report the worst case.

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Used Test Equipment List

Power meter. Refer to Clause 5 Test Equipment List for details.

### Test result:

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured Channel Power (dBm)	Limit	Result
1	2412	802.11b	1 Mbps	12.22	1W (30dBm)	Pass
6	2437		1 Mbps	12.58		Pass
11	2462		1 Mbps	10.98		Pass
1	2412	802.11g	6 Mbps	6.94		Pass
6	2437		6 Mbps	6.74		Pass
11	2462		6 Mbps	7.54		Pass
1	2412	802.11n (HT20)	6.5 Mbps	7.54		Pass
6	2437		6.5 Mbps	8.70		Pass
11	2462		6.5 Mbps	7.90		Pass
3	2422	802.11n (HT40)	13.5 Mbps	5.38		Pass
6	2437		13.5 Mbps	7.54		Pass
9	2452		13.5 Mbps	8.03		Pass

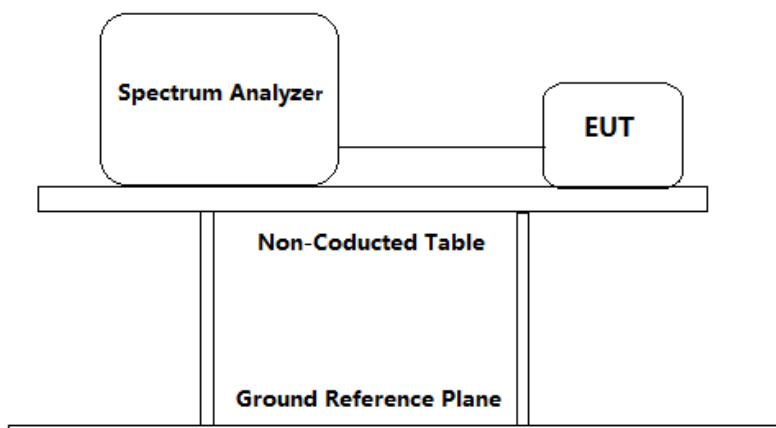
Remark: The measured power in the table has considered the compensation of duty cycle.  
The unit does meet the FCC requirements.



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### 4.5 Peak Power Spectral Density

Test Requirement:	<p>FCC Part 15 C section 15.247</p> <p>(e) 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.</p> <p>This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.</p>
Test Method:	ANSI C63.10: Clause 11.10.2
Test Status:	<p>Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.</p>
Test Configuration:	



#### Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1dB, with 10 dB attenuator) from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer:
  - a) Set analyzer center frequency to DTS channel center frequency.
  - b) Set the span=  $1.5 \times \text{DTS bandwidth}$ .
  - c) Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
  - d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
  - 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

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the RBW.

j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

3. Measure the Power Spectral Density of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worst case.

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

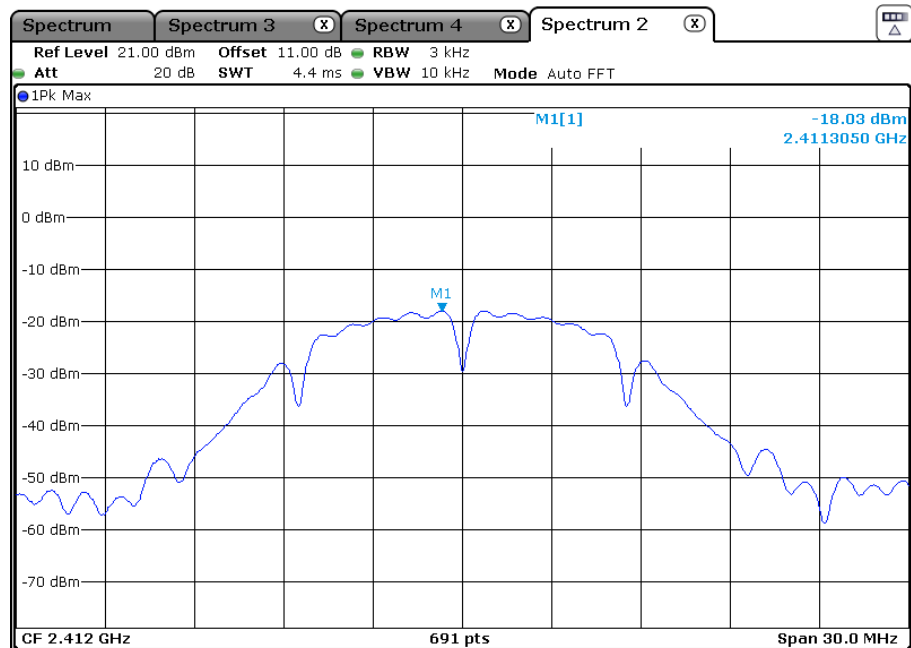
Channel No.	Frequency (MHz)	Mode	Data Rate	Measured Peak Power Spectral Density (dBm/3kHz)	Limit	Result
1	2412	802.11b	1 Mbps	-18.03	8dBm/ 3 KHz	Pass
6	2437		1 Mbps	-17.73		Pass
11	2462		1 Mbps	-17.93		Pass
1	2412	802.11g	6 Mbps	-22.21		Pass
6	2437		6 Mbps	-21.87		Pass
11	2462		6 Mbps	-21.76		Pass
1	2412	802.11n (HT20)	6.5 Mbps	-21.06		Pass
6	2437		6.5 Mbps	-21.14		Pass
11	2462		6.5 Mbps	-20.37		Pass
3	2422	802.11n (HT40)	13.5 Mbps	-22.65		Pass
6	2437		13.5 Mbps	-23.76		Pass
9	2452		13.5 Mbps	-23.15		Pass

## TEST REPORT

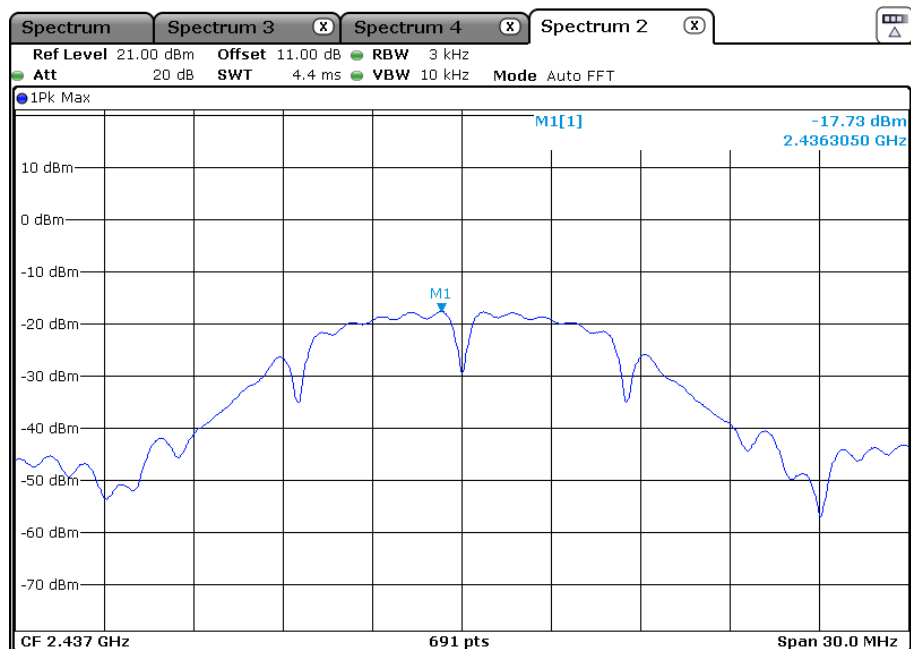
Result plot as follows:

802.11b mode with 1Mbps data rate

Channel 1: 2.412GHz:

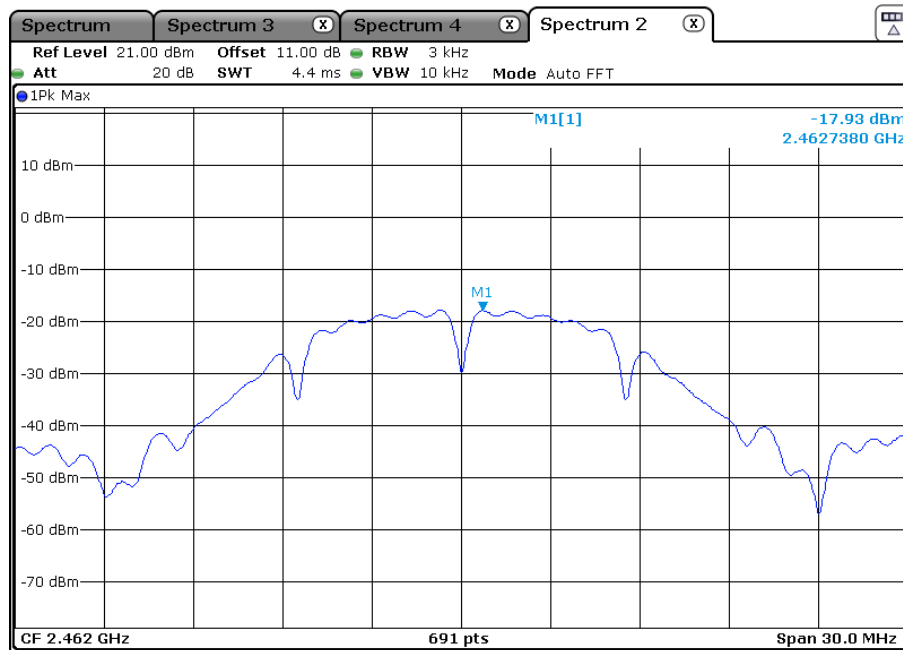


Channel 6: 2.437GHz:



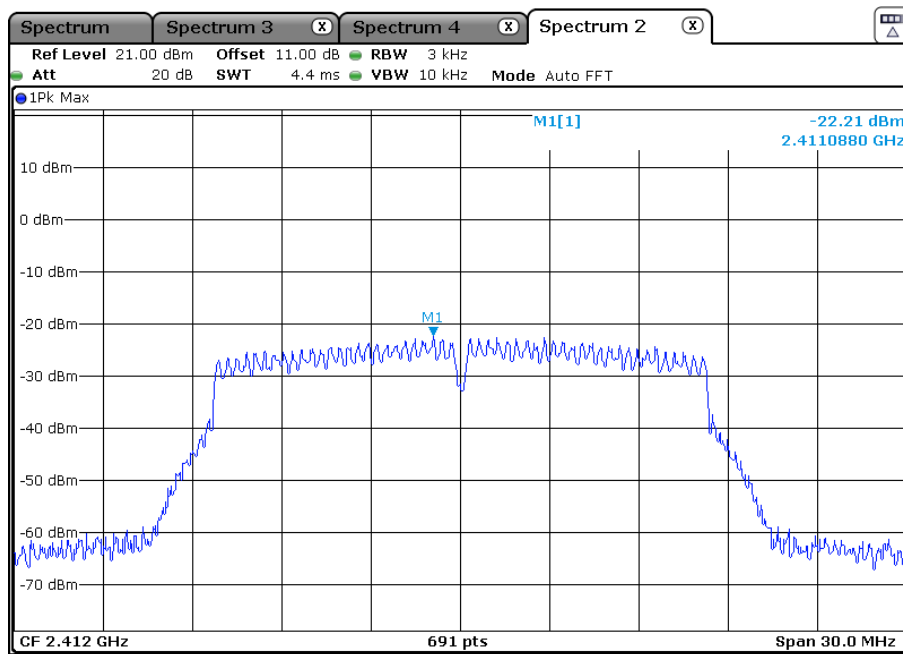
## TEST REPORT

Channel 11: 2.462GHz:



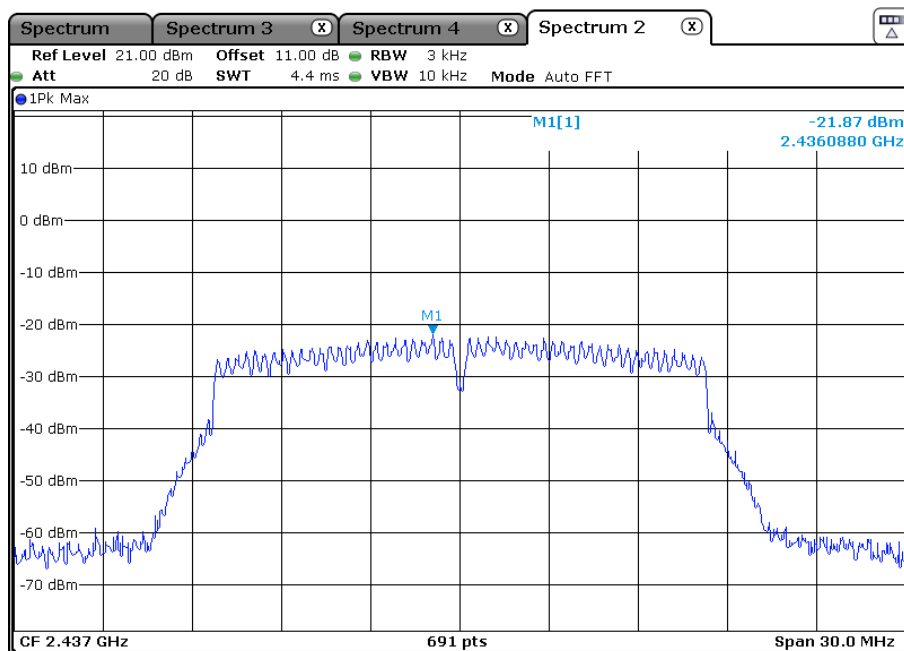
802.11g mode with 6Mbps data rate

Channel 1: 2.412GHz:

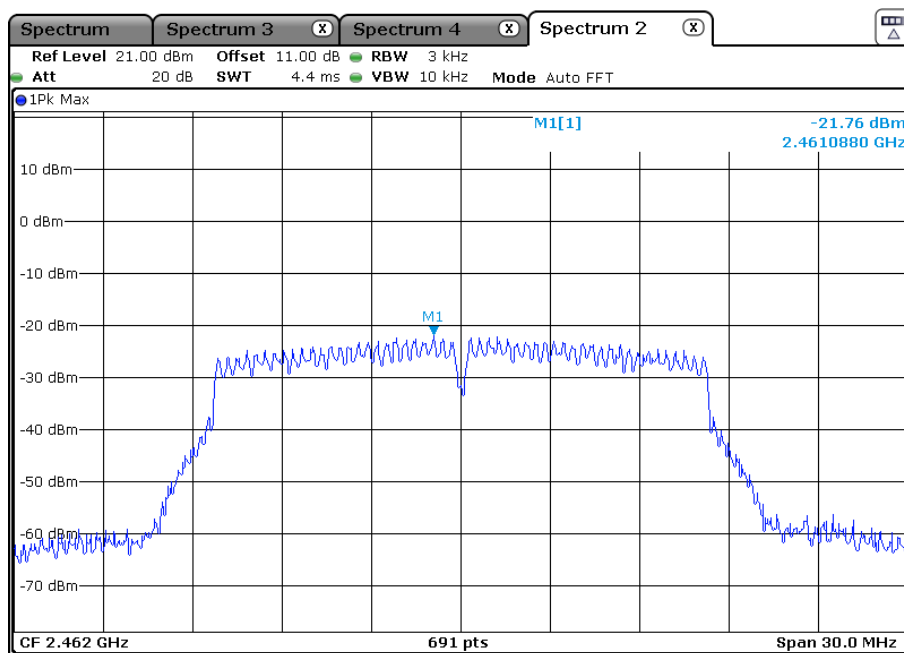


## TEST REPORT

Channel 6: 2.437GHz:



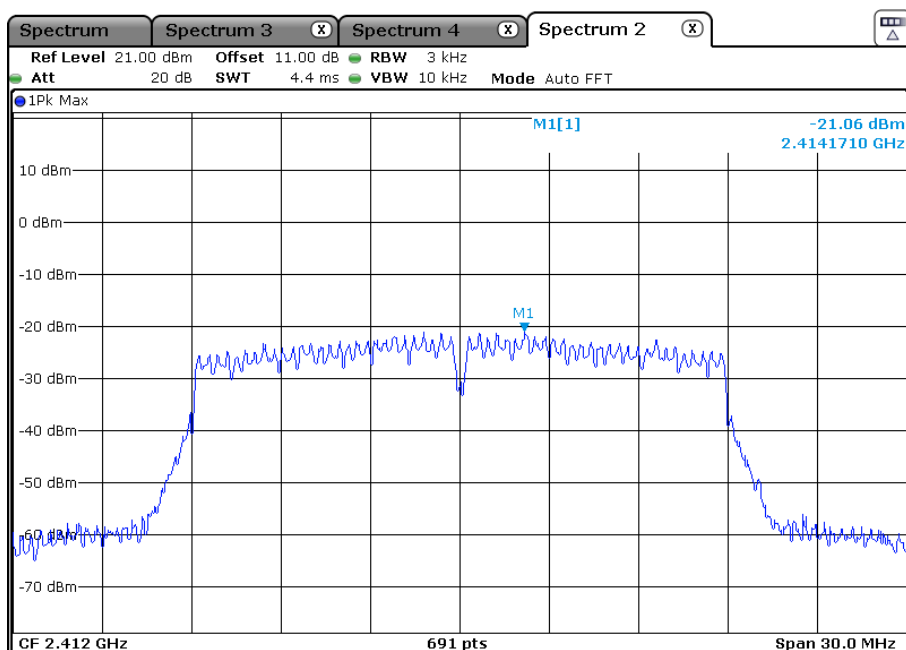
Channel 11: 2.462GHz:



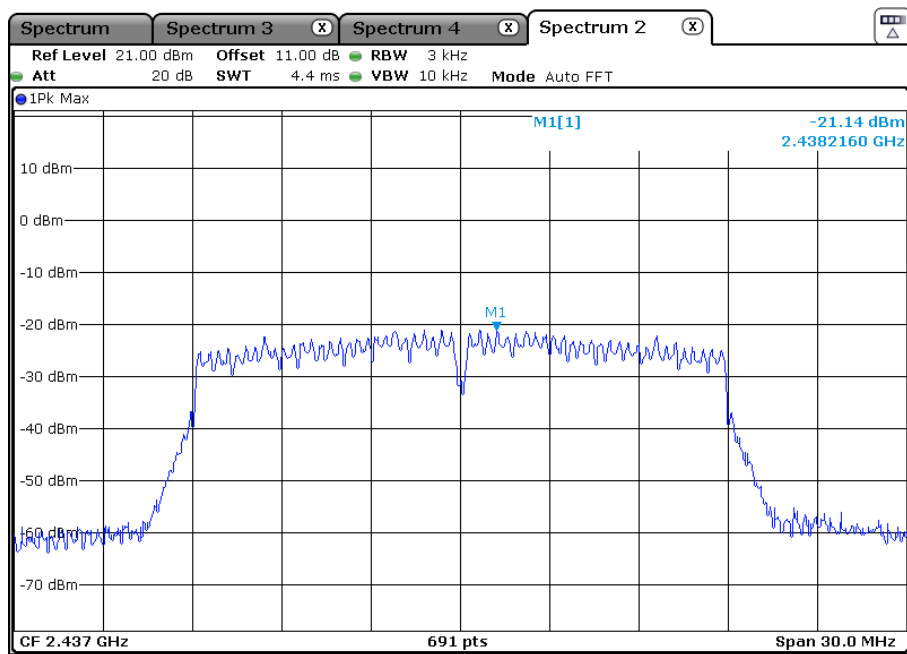
## TEST REPORT

802.11n(HT20) mode with 6.5Mbps data rate

Channel 1: 2.412GHz:

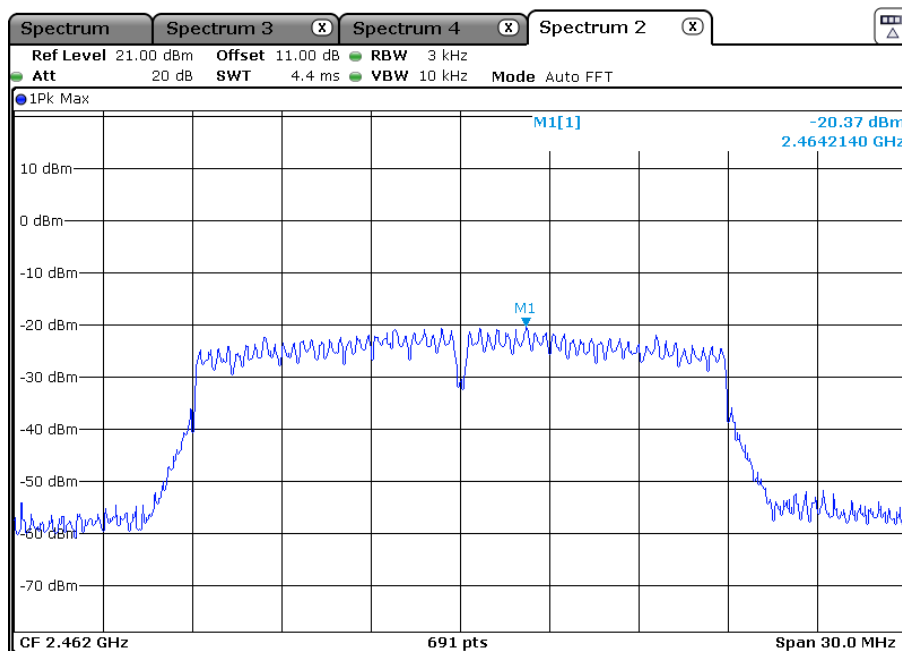


Channel 6: 2.437GHz:



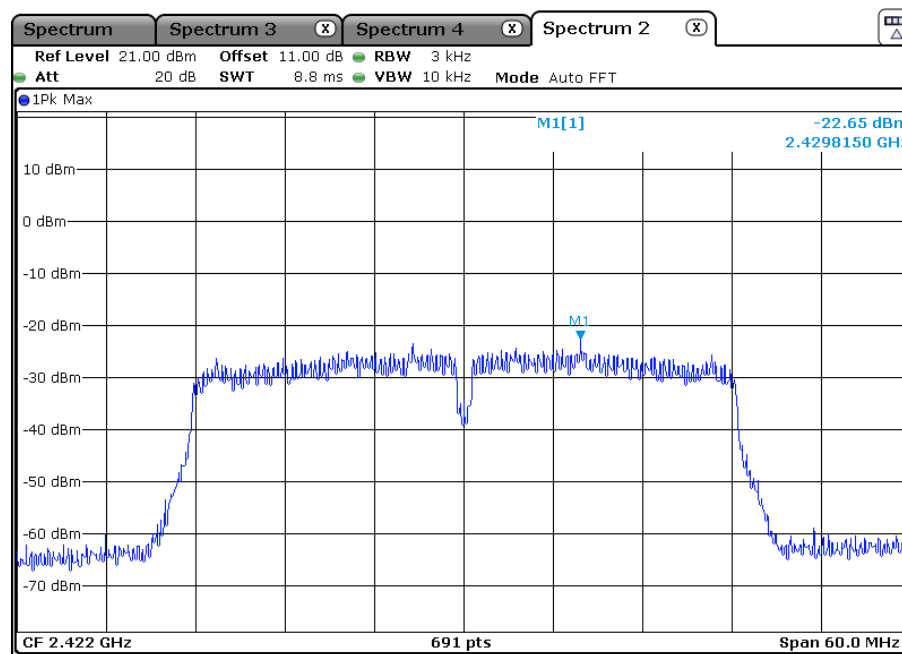
## TEST REPORT

Channel 11: 2.462GHz:



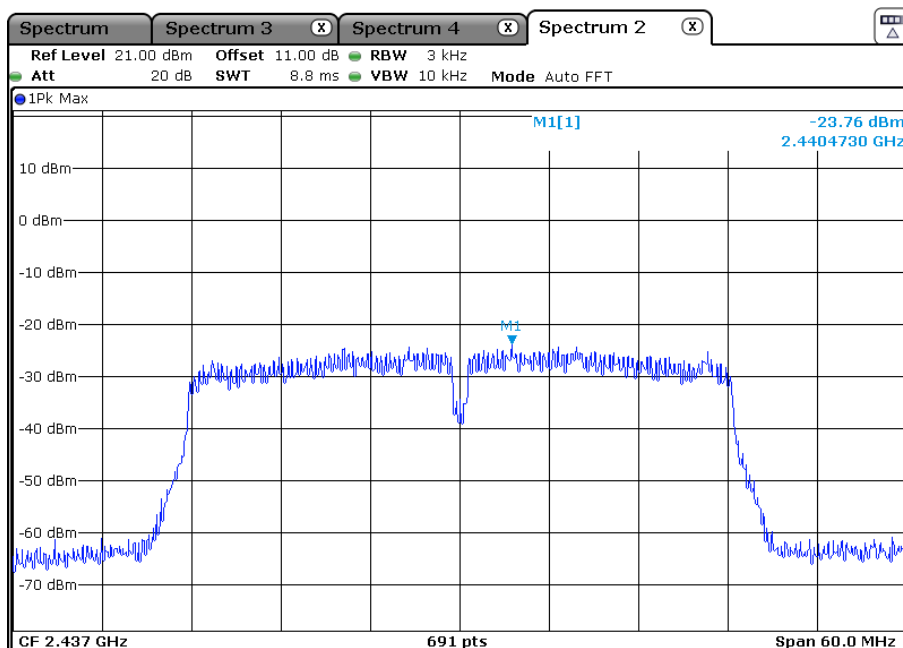
802.11n(HT40) mode with 13.5 Mbps data rate

Channel 3: 2.422GHz:

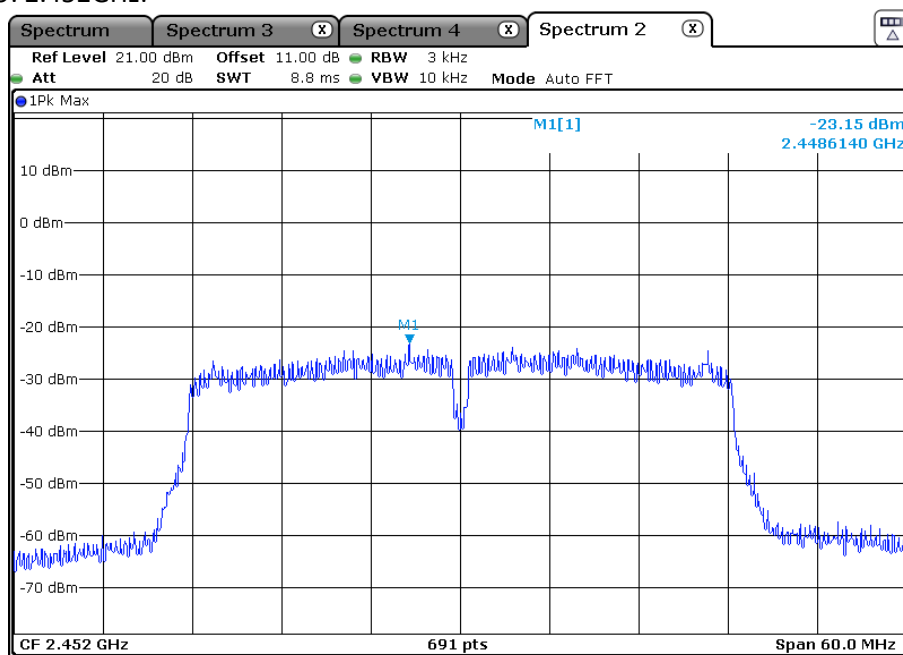


## TEST REPORT

Channel 6: 2.437GHz:



Channel 9: 2.452GHz:





## TEST REPORT

### 4.6 Out of Band Conducted Emissions

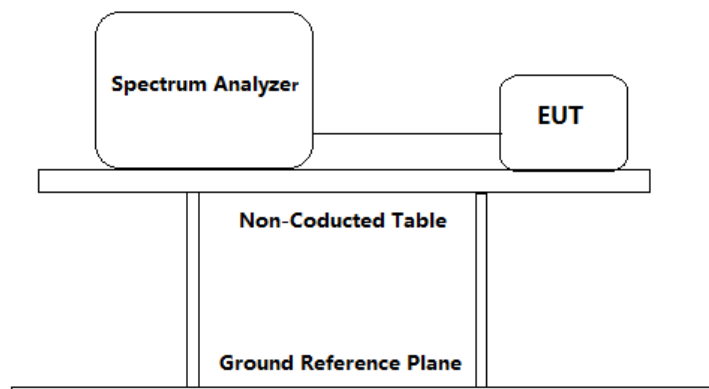
Test Requirement: FCC Part 15 C section 15.247

(d) 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 either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB.

Test Method: ANSI C63.10: Clause 11.11

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable (cable loss =1dB, with 10 dB attenuator) from the antenna port to the spectrum analyzer or power meter.
2. Establish a reference level by using the following procedure:
  - a) Set instrument center frequency to DTS channel center frequency.
  - b) Set the span to  $\geq 1.5 \times \text{DTS bandwidth}$ .
  - c) Set the RBW = 100 kHz.
  - d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
  - e) Detector = peak.
  - f) Sweep time = auto couple.
  - g) Trace mode = max hold.
  - h) Allow trace to fully stabilize.

## TEST REPORT

- i) Use the peak marker function to determine the maximum PSD level.  
Note that the channel found to contain the maximum PSD level can be used to establish the reference level
3. Emission level measurement
  - a) Set the center frequency and span to encompass frequency range to be measured.
  - b) Set the RBW = 100 kHz.
  - c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
  - d) Detector = peak.
  - e) Sweep time = auto couple.
  - f) Trace mode = max hold.
  - g) Allow trace to fully stabilize.
  - h) Use the peak marker function to determine the maximum amplitude level.
4. Measure the Conducted unwanted Emissions of the test frequency with special test status.
5. Repeat until all the test status is investigated.
6. Report the worst case.

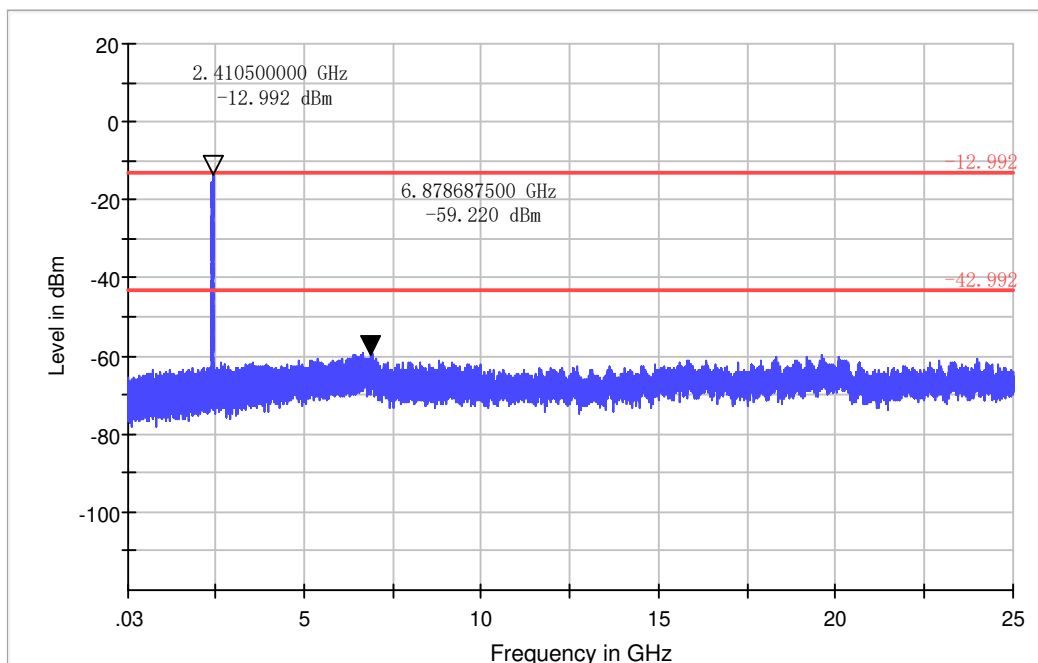
### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Result plot as follows:

802.11b mode with 1Mbps data rate

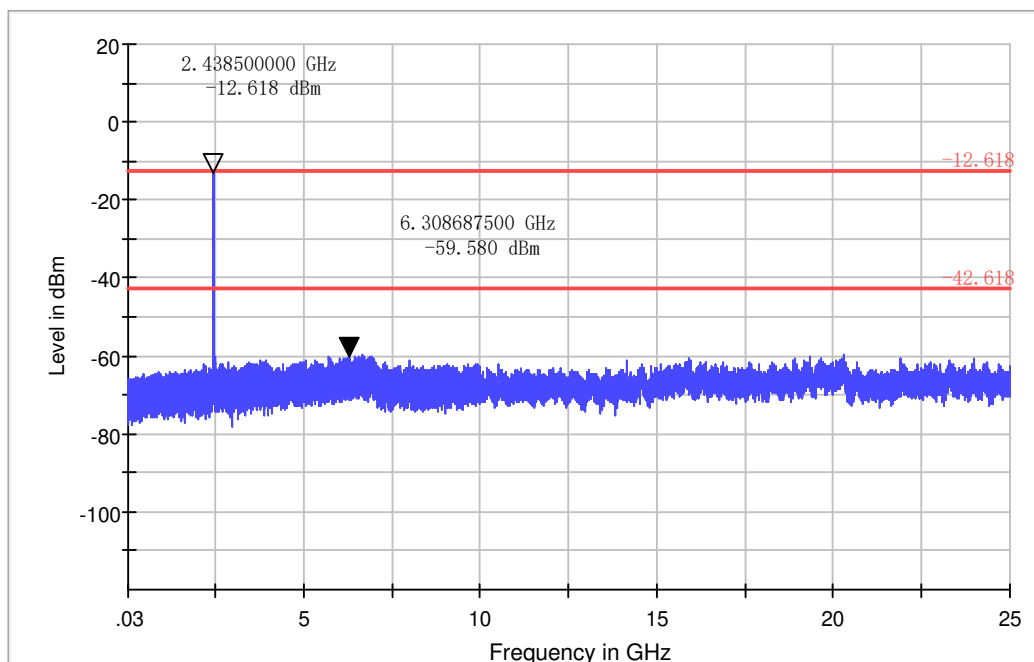
Channel 1: 2.412GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

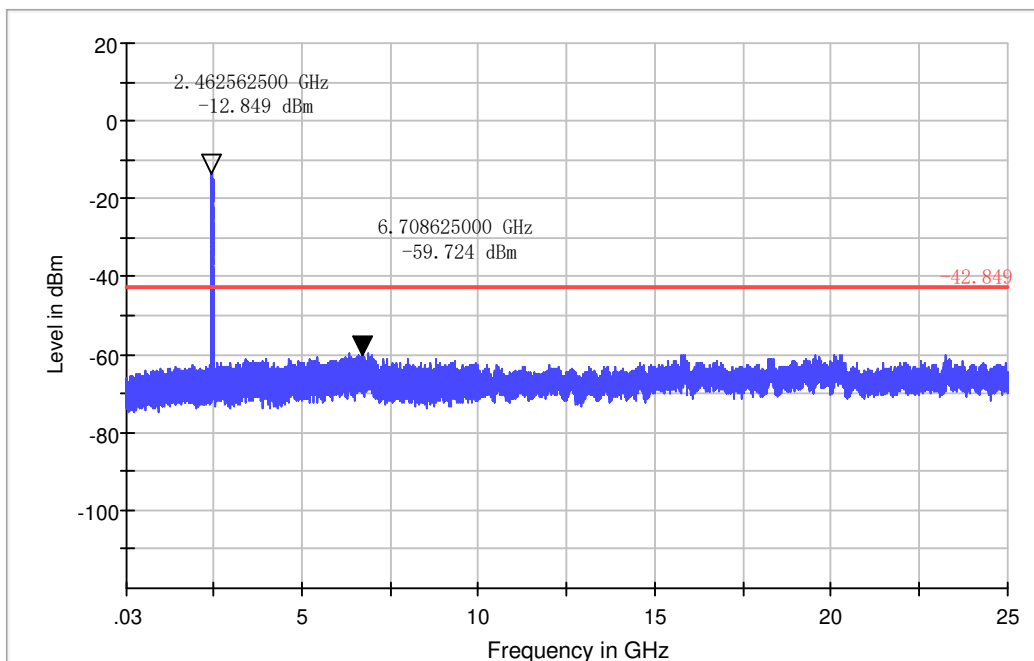
## TEST REPORT

Channel 6: 2.437GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 11: 2.462 GHz:

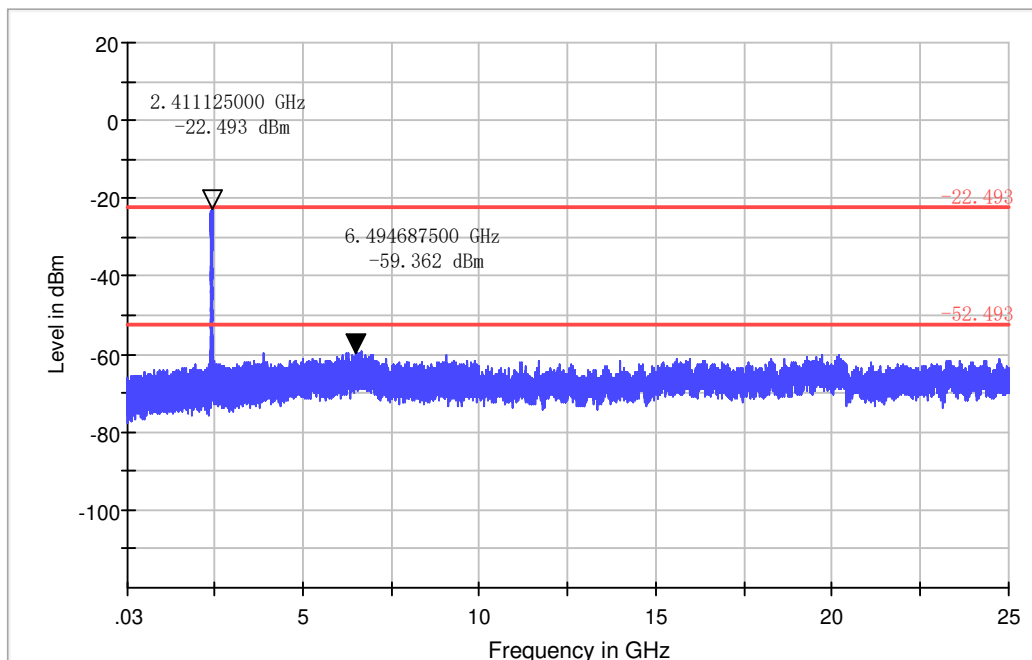


In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

## TEST REPORT

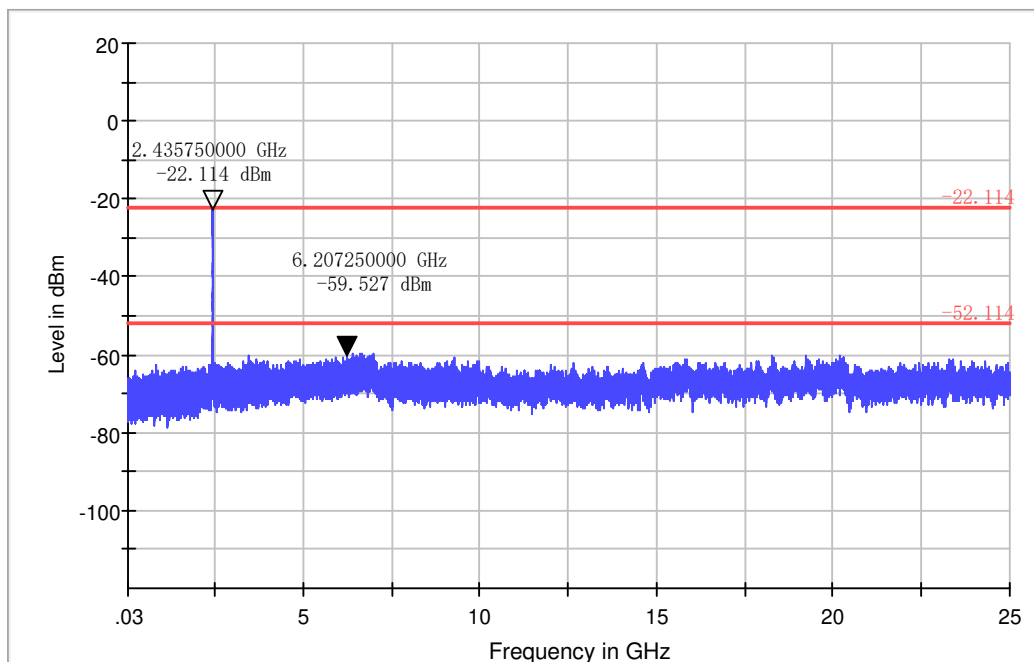
802.11g mode with 6Mbps data rate

Channel 1: 2.412GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 6: 2.437GHz:

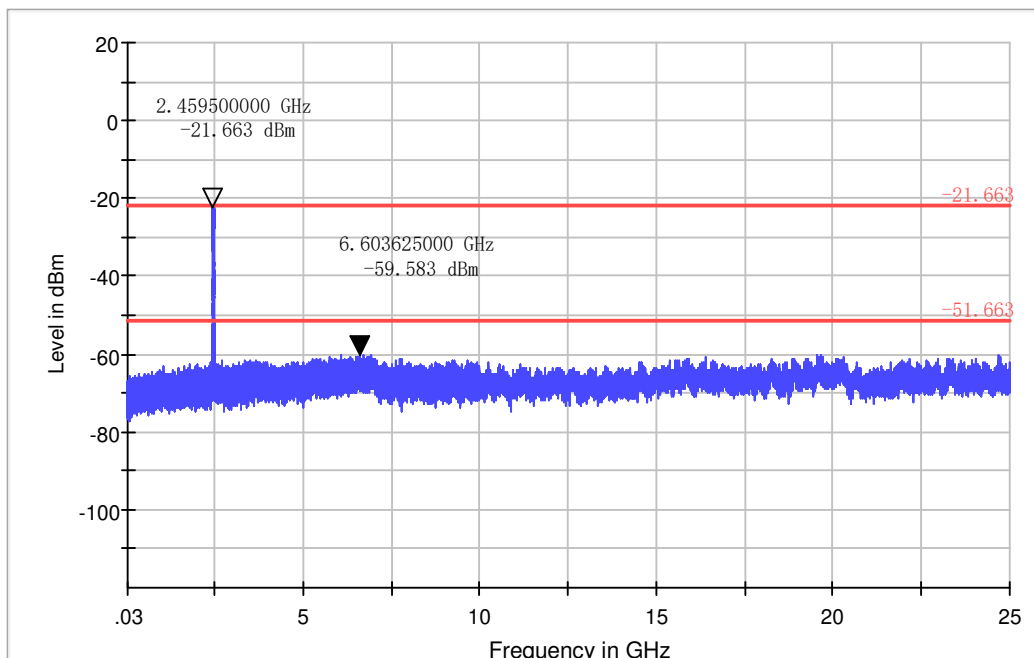


In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of

## TEST REPORT

the desired power.

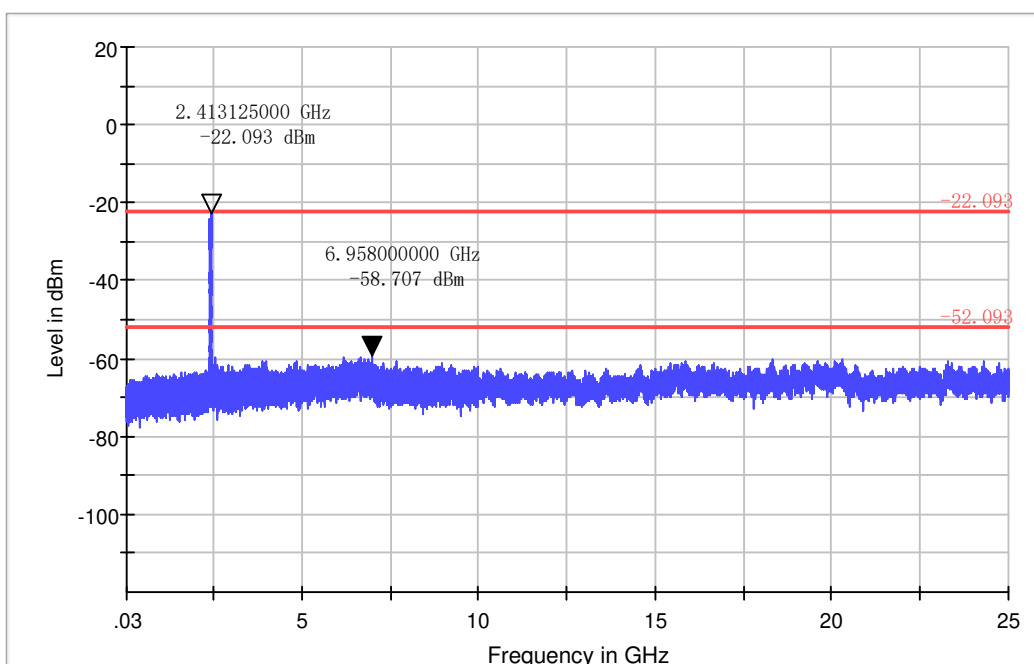
Channel 11: 2.462 GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

802.11n(HT20) mode with 6.5Mbps data rate

Channel 1: 2.412GHz:

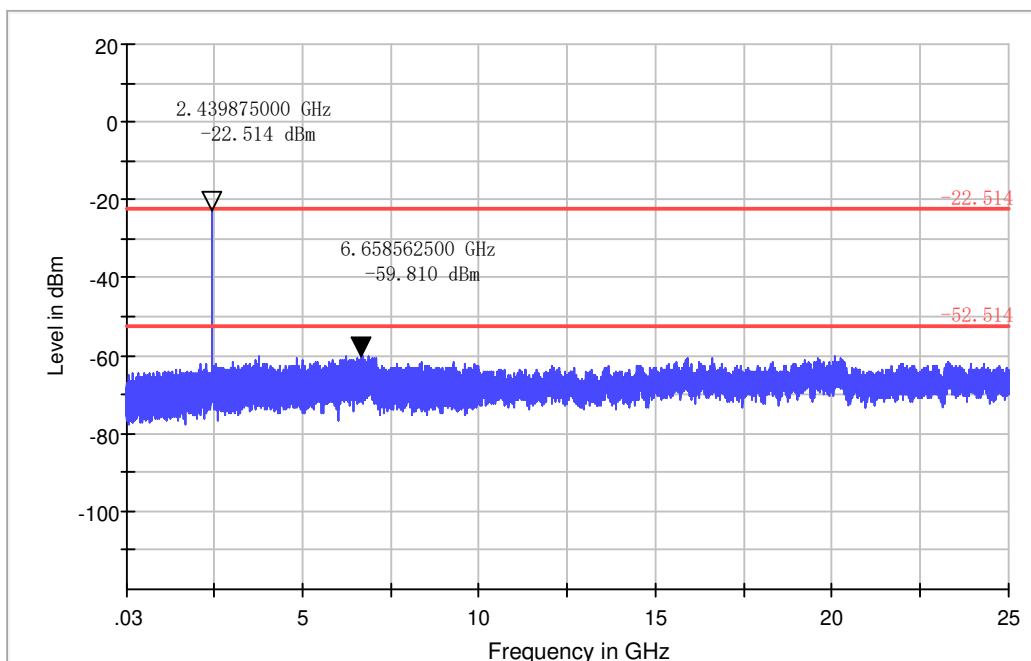


In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of

## TEST REPORT

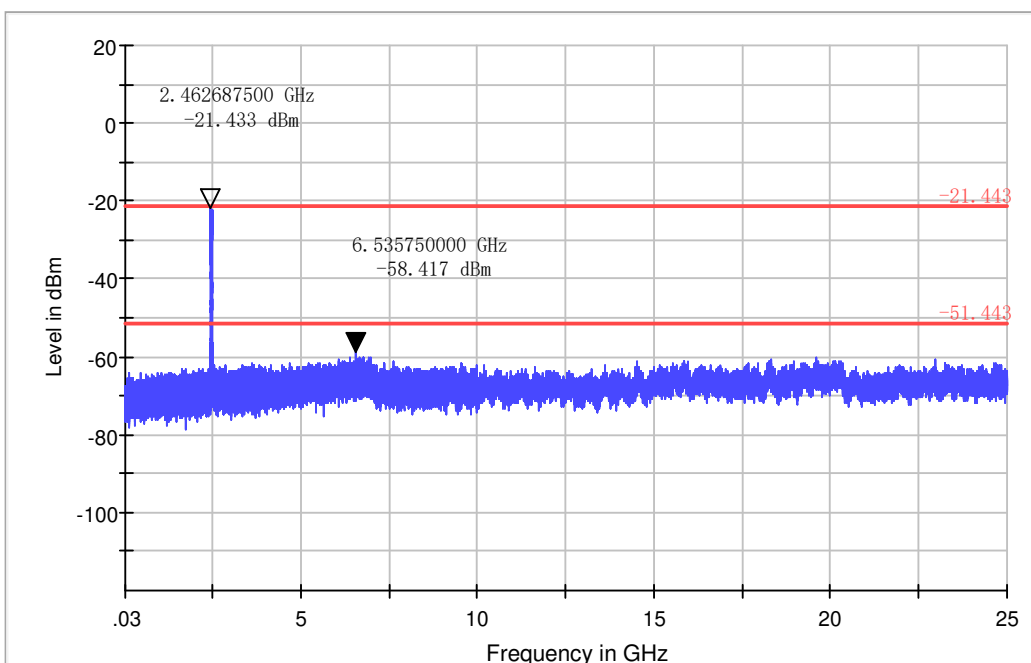
the desired power.

Channel 6: 2.437GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 11: 2.462 GHz:



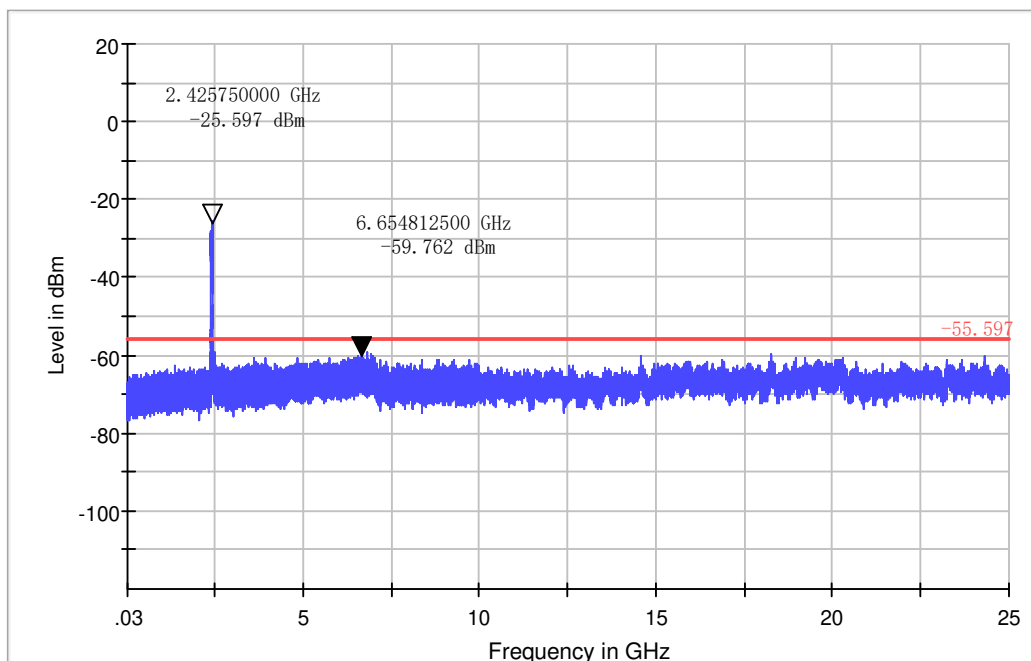
In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of

## TEST REPORT

the desired power.

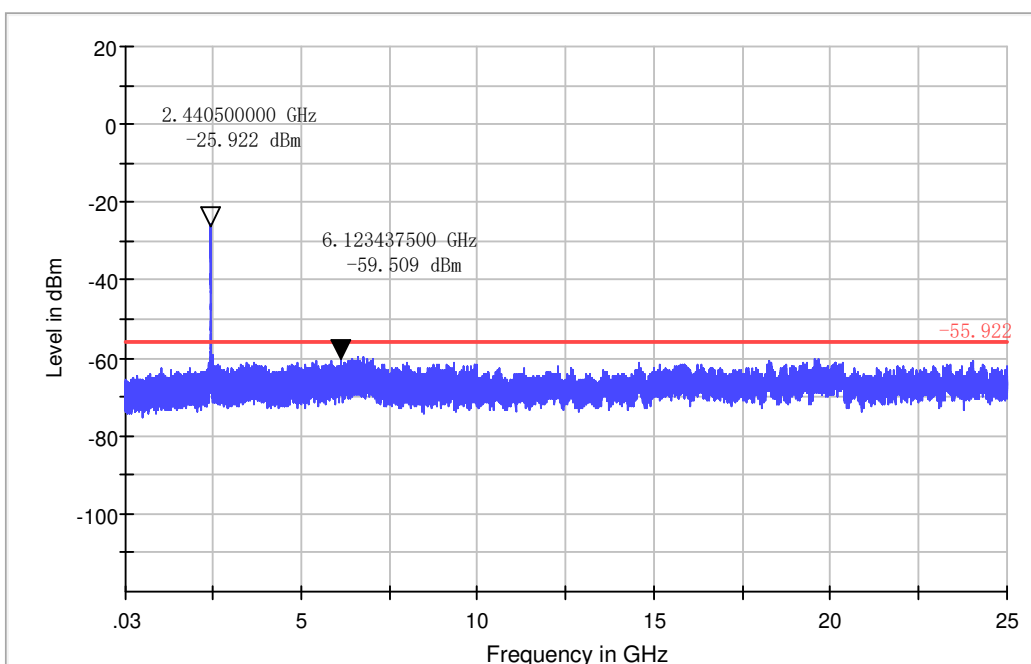
802.11n(HT40) mode with 13.5 Mbps data rate

Channel 3: 2.422GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 6: 2.437GHz:

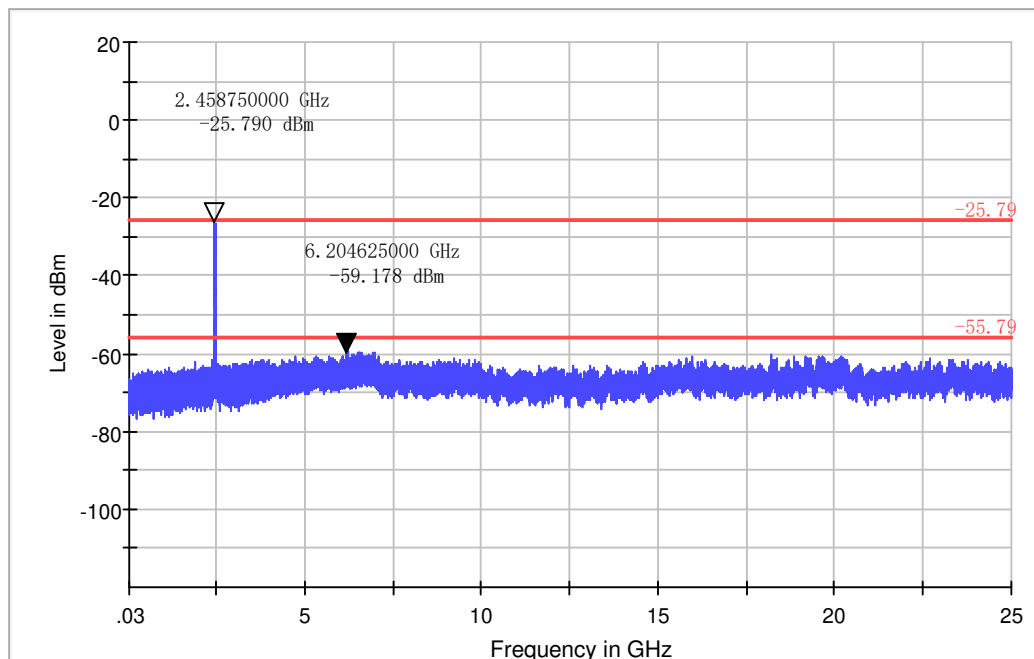


In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of

## TEST REPORT

the desired power.

Channel 9: 2.452 GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

### 4.7 Out of Band Radiated Emissions

For out of band radiated emissions into Non-Restricted Frequency Bands were performed at a 3m separation distance to determine whether these emissions complied with the 20dB attenuation requirement.

- ☒ Not required, since all emissions are more than 20dB below fundamental  
☐ See attached data sheet

### 4.8 Radiated Emissions in Restricted Bands

Test Requirement: FCC Part 15 C section 15.247  
 (d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Method: ANSI C63.10: Clause 11.12.1, 6.4, 6.5 and 6.6

Test Status: Pre-Scan has been conducted to determine the worst-case mode



## TEST REPORT

	from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	40.0 dB $\mu$ V/m between 30MHz & 88MHz; 43.5 dB $\mu$ V/m between 88MHz & 216MHz; 46.0 dB $\mu$ V/m between 216MHz & 960MHz; 54.0 dB $\mu$ V/m above 960MHz.
Detector:	For Peak and Quasi-Peak value: RBW = 1 MHz for $f \geq 1$ GHz, 200 Hz for 9 kHz to 150 kHz 9 kHz for 150 kHz to 30 MHz 120 kHz for 30 MHz to 1GHz VBW $\geq$ RBW Sweep = auto Detector function = peak for $f \geq 1$ GHz, QP for $f < 1$ GHz Trace = max hold  For AV value: RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz VBW=10 Hz Sweep = auto Trace = max hold
Field Strength Calculation:	The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below: $FS = RA + AF + CF - AG + PD + AV$ $FS = RA + \text{Correct Factor} + AV$ $FS = \text{Field Strength in dB}\mu\text{V/m}$ $RA = \text{Receiver Amplitude (including preamplifier) in dB}\mu\text{V}$ $AF = \text{Antenna Factor in dB}$ $CF = \text{Cable Attenuation Factor in dB}$ $AG = \text{Amplifier Gain in dB}$ $PD = \text{Pulse Desensitization in dB}$ $AV = \text{Average Factor in -dB}$ $\text{Correct Factor} = AF + CF - AG + PD$ <p>In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:  <math display="block">FS = RA + AF + CF - AG + PD + AV</math></p>
Where:	

## TEST REPORT

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $\mu$ V/m.

RA = 62.0 dB $\mu$ V

AF = 7.4 dB

CF = 1.6 dB

AG = 29.0 dB

PD = 0 dB

AV = -10 dB

Correct Factor = 7.4 + 1.6 – 29.0 + 0 = -20 dB

FS = 62 + (-20) + (-10) = 32 dB $\mu$ V/m

Section 15.205 Restricted bands of operation.

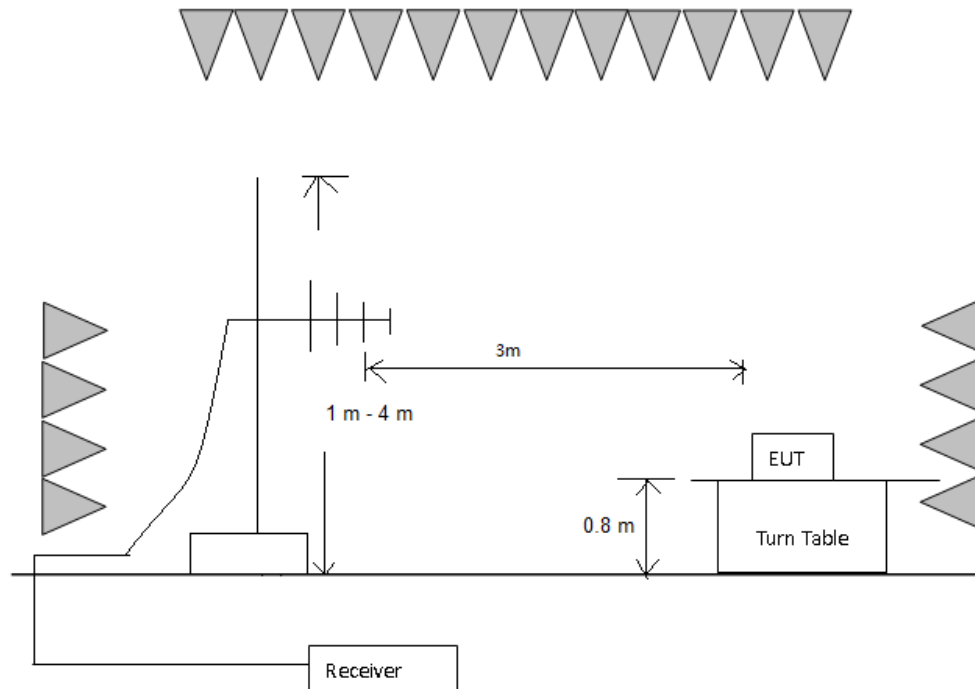
(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
10.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

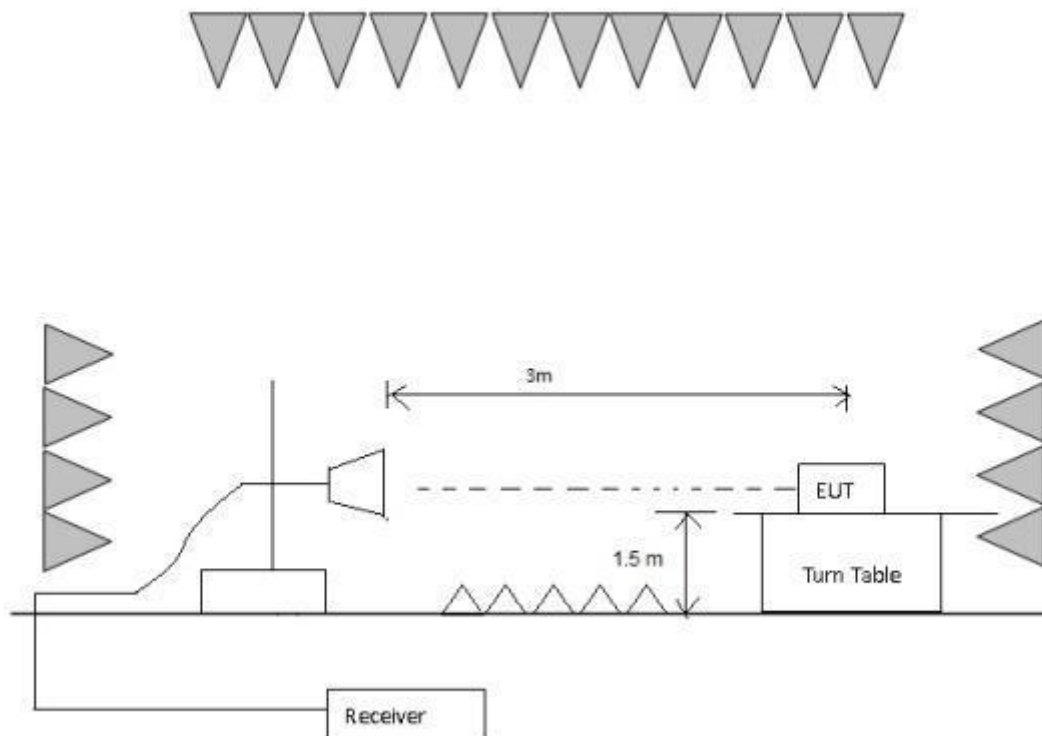
## TEST REPORT

Test Configuration:

1) 30 MHz to 1 GHz emissions:



2) 1 GHz to 40 GHz emissions:



Test Procedure:

Test site with RF absorbing material covering the ground plane that met the site validation

## TEST REPORT

criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

The receiver was scanned from 9 kHz to 25 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

### Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

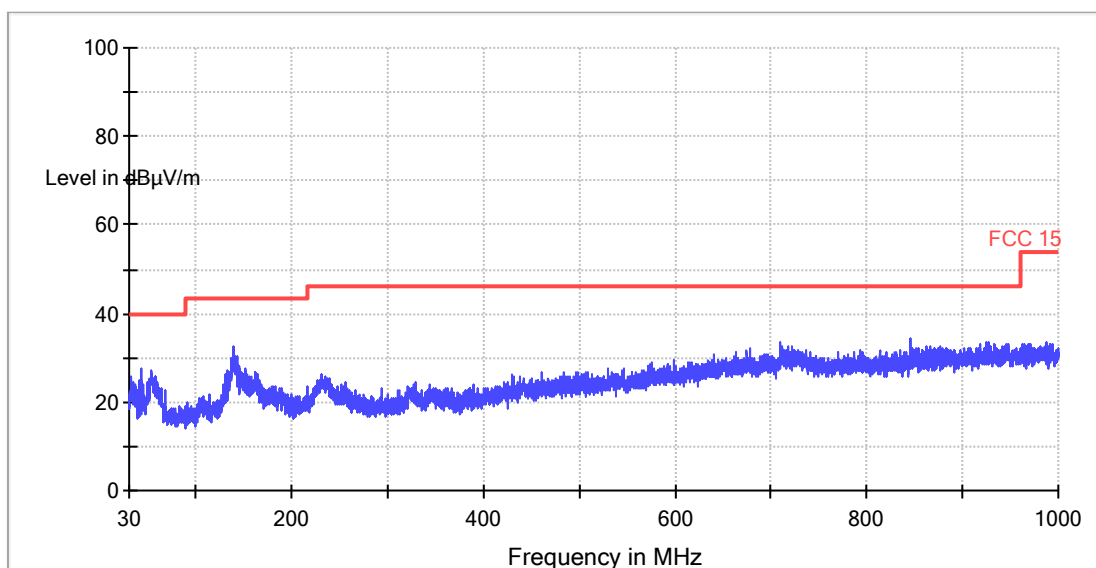
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Pre-scan all modes, worst case as below

802.11b mode with 1Mbps data rate Test at Channel 6 (2.437 GHz) in transmitting status

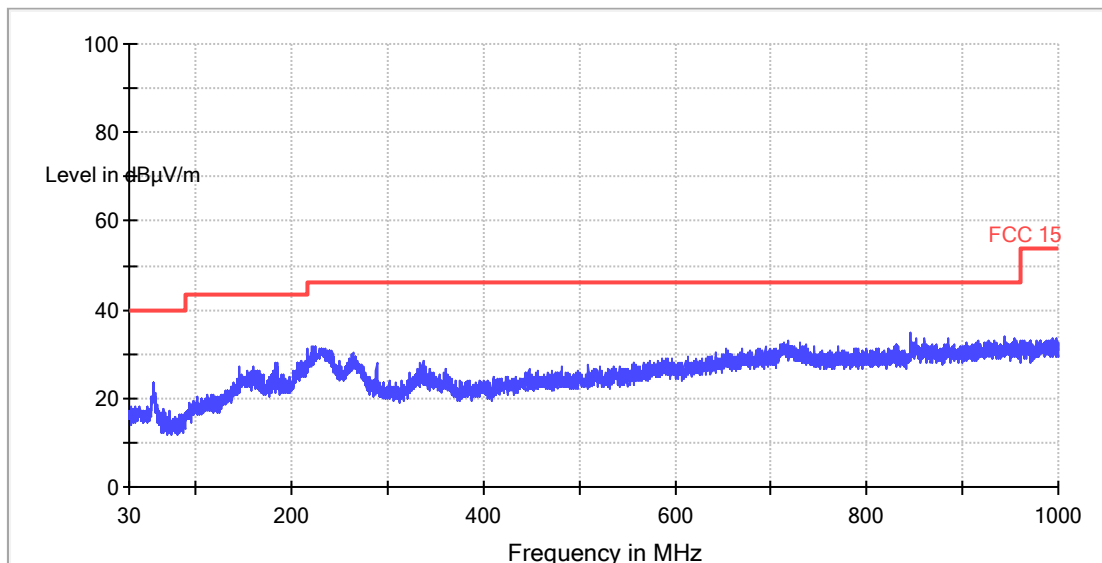
Vertical:



All emission levels are more than 6dB below the limit.

## TEST REPORT

Horizontal:



All emission levels are more than 6dB below the limit.

1~25 GHz Radiated Emissions.

Pre-scan all modes, worst case (802.11b mode with 1Mbps data rate) as below

Test at Channel 1 (2.412 GHz) in transmitting status

### PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	
6185.0	40.8	1.0	41.8	74	V
7126.2	39.7	2.2	41.9	74	H

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

Test at Channel 6 (2.437 GHz) in transmitting status

### AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Reading Level	Antenna polarization
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	
9293.2	39.2	4.6	43.8	74	H
9262.0	40.2	4.6	44.8	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded

## TEST REPORT

Test at Channel 11 (2.462 GHz) in transmitting status

### PK Measurement:

Frequency (MHz)	PK Reading Level (dBuV)	Correction factors (dB)	PK Emission Level (dBuV/m)	PK Limit (dBuV/m)	Antenna polarization
6984.6	41.1	2.0	43.1	74	H
8018.7	39.6	4.0	43.6	74	V

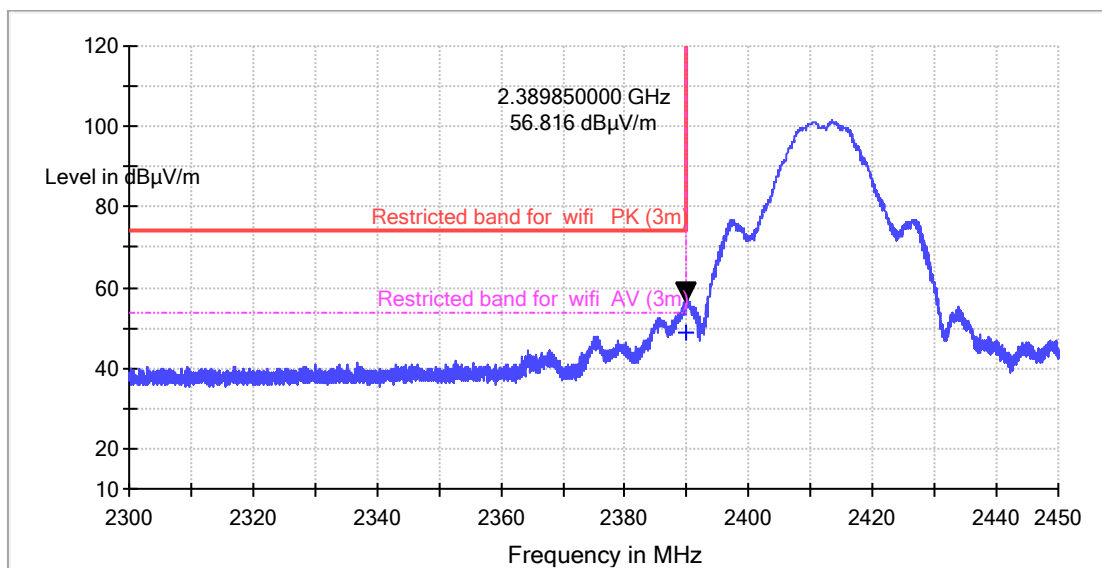
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

### Restricted Bands Measurement

802.11b mode with 1Mbps data rate

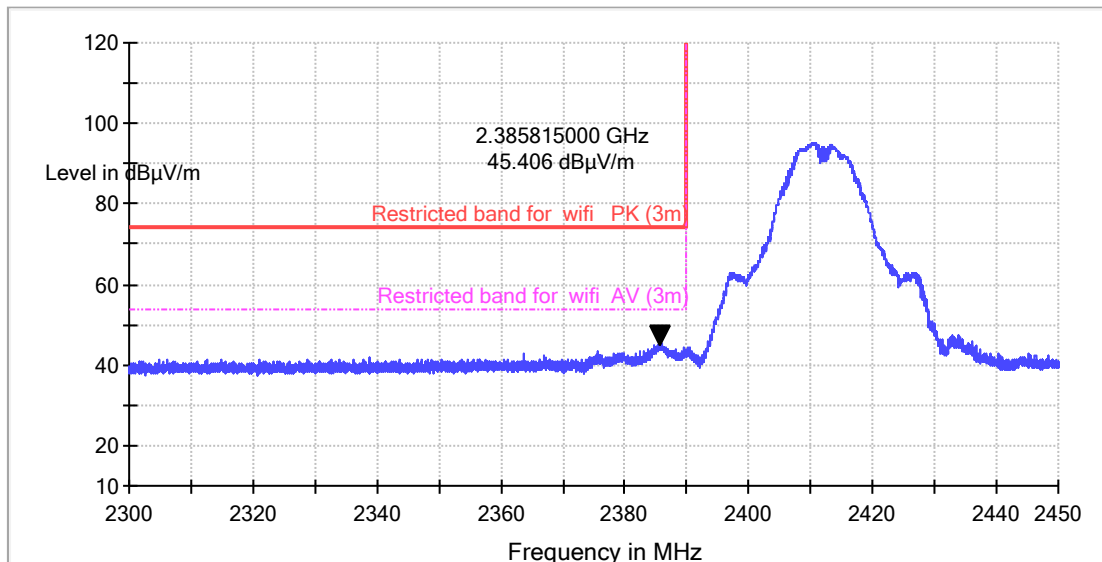
Test at Channel 1 (2.412 GHz) in transmitting status

Horizontal



## TEST REPORT

Vertical



### PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2389.9	65.0	-8.2	56.8	74	H
2385.8	53.6	-8.2	45.4	74	V

### AV Measurement:

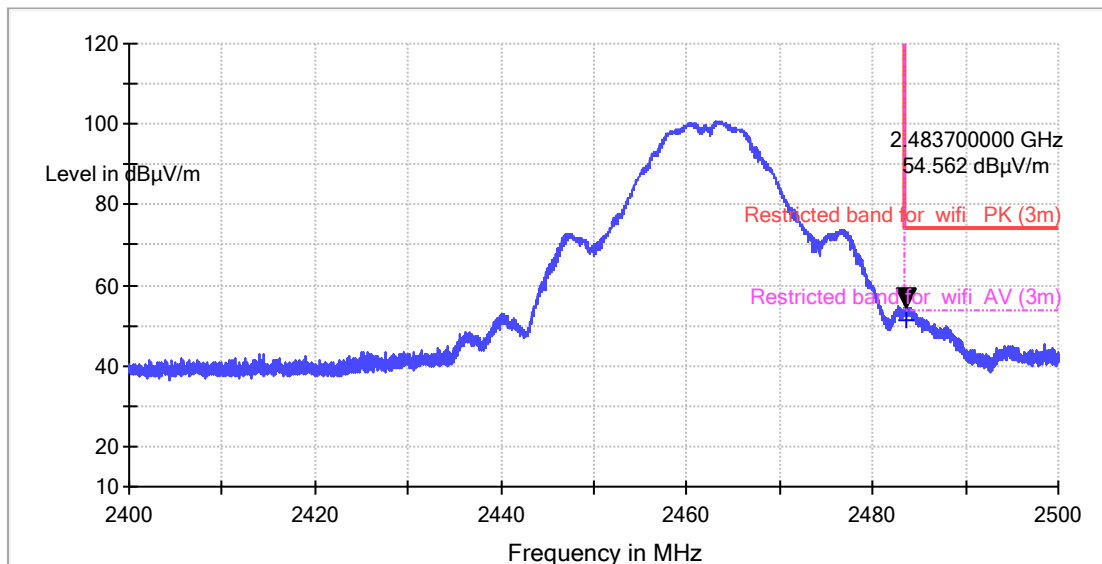
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Reading Level	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2389.9	57.3	-8.2	49.1	54	H
2385.8	53.6	-8.2	45.4	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

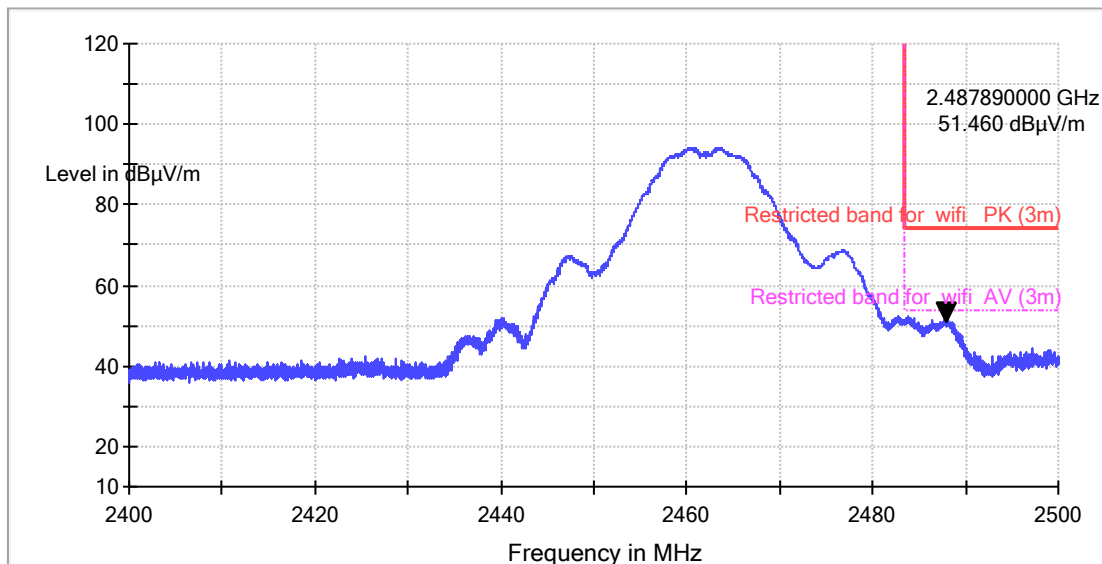
## TEST REPORT

Test at Channel 11 (2.462 GHz) in transmitting status

Horizontal



Vertical



### PK Measurement:

Frequency (MHz)	PK Reading Level (dBuV)	Correction factors (dB)	PK Emission Level (dBuV/m)	PK Limit (dBuV/m)	Antenna polarization
2483.7	62.4	-7.8	54.6	74	H
2487.9	59.3	-7.8	51.5	74	V



## TEST REPORT

### AV Measurement:

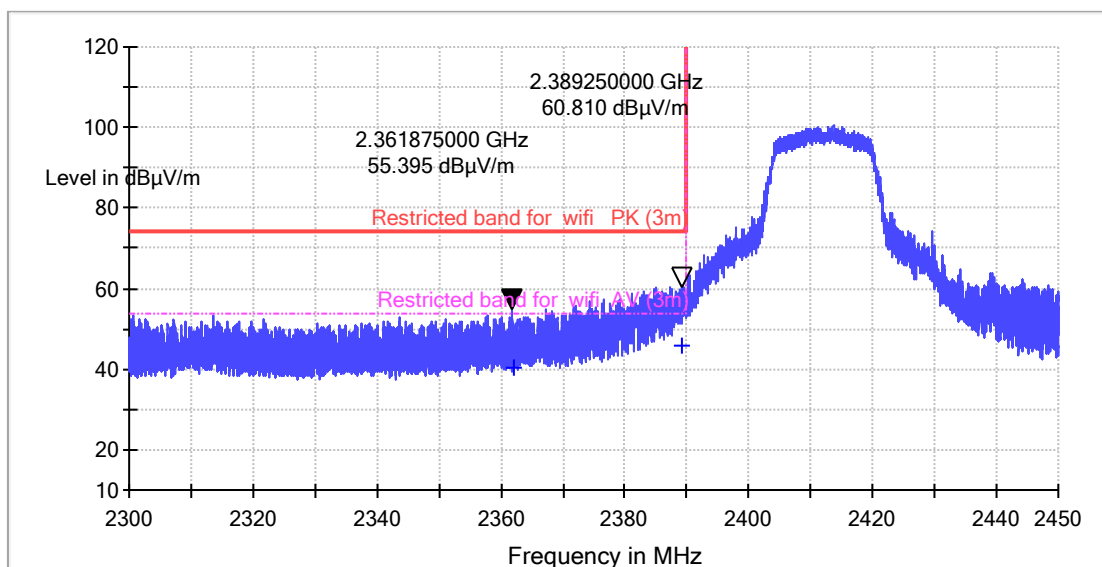
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Reading Level	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2483.7	58.9	-7.8	51.1	54	H
2487.9	/	-7.8	/	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

802.11g mode with 6Mbps data rate

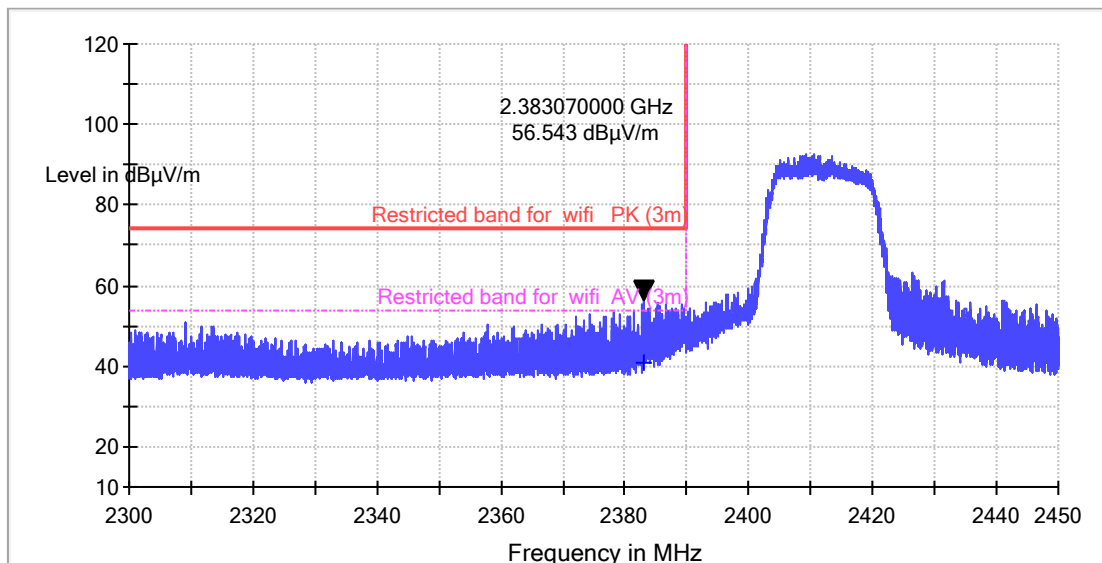
Test at Channel 1 (2.412 GHz) in transmitting status

Horizontal



## TEST REPORT

Vertical



### PK Measurement:

Frequency (MHz)	PK Reading Level (dBμV)	Correction factors (dB)	PK Emission Level (dBμV/m)	PK Limit (dBμV/m)	Antenna polarization
2389.3	69.0	-8.2	60.8	74	H
2361.9	63.7	-8.3	55.4	74	V
2383.1	64.7	-8.2	56.5	74	V

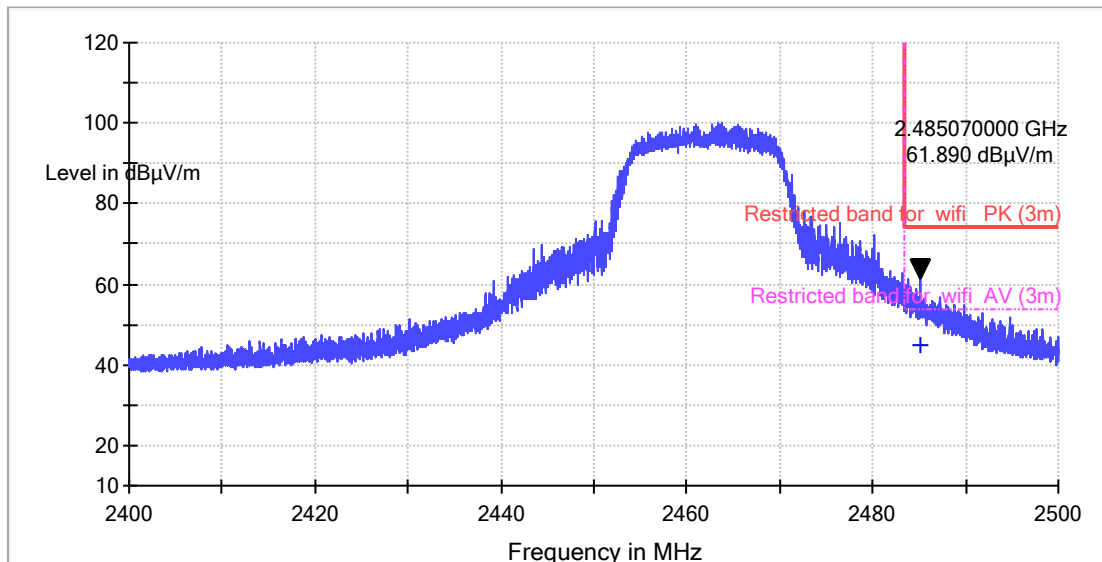
### AV Measurement:

Frequency (MHz)	AV Reading Level (dBμV)	Correction factors (dB)	AV Emission Level (dBμV/m)	AV Reading Level (dBμV/m)	Antenna polarization
2389.3	48.7	-8.2	40.5	54	H
2361.9	54.3	-8.3	46.0	54	V
2383.1	48.9	-8.2	40.7	54	V

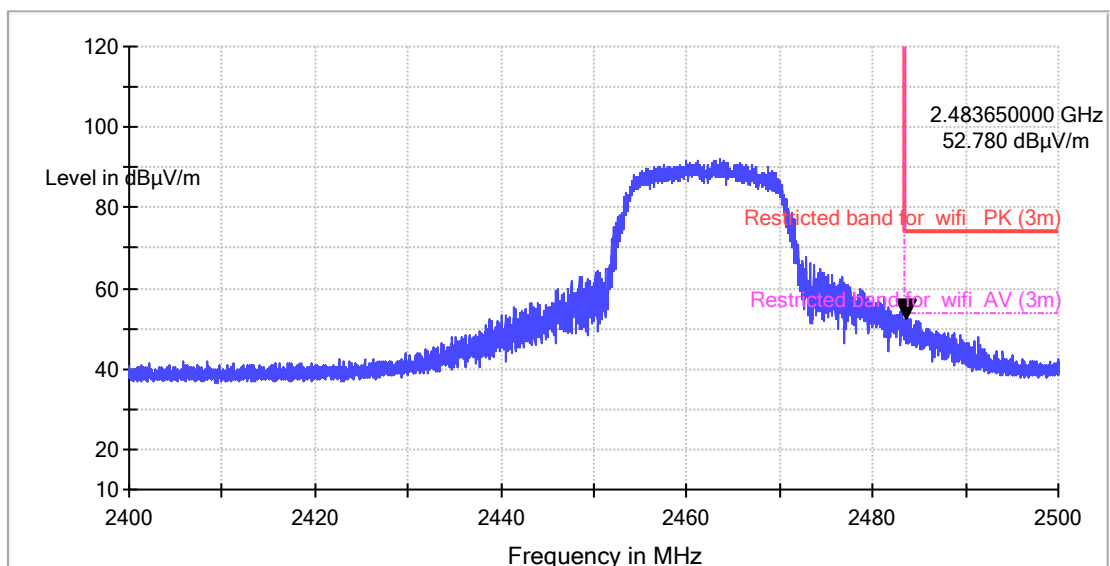
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

## TEST REPORT

Test at Channel 11 (2.462 GHz) in transmitting status  
Horizontal



Vertical



### PK Measurement:

Frequency (MHz)	PK Reading Level (dBuV)	Correction factors (dB)	PK Emission Level (dBuV/m)	PK Limit (dBuV/m)	Antenna polarization
2485.1	69.7	-7.8	61.9	74	H
2483.7	60.6	-7.8	52.8	74	V

## TEST REPORT

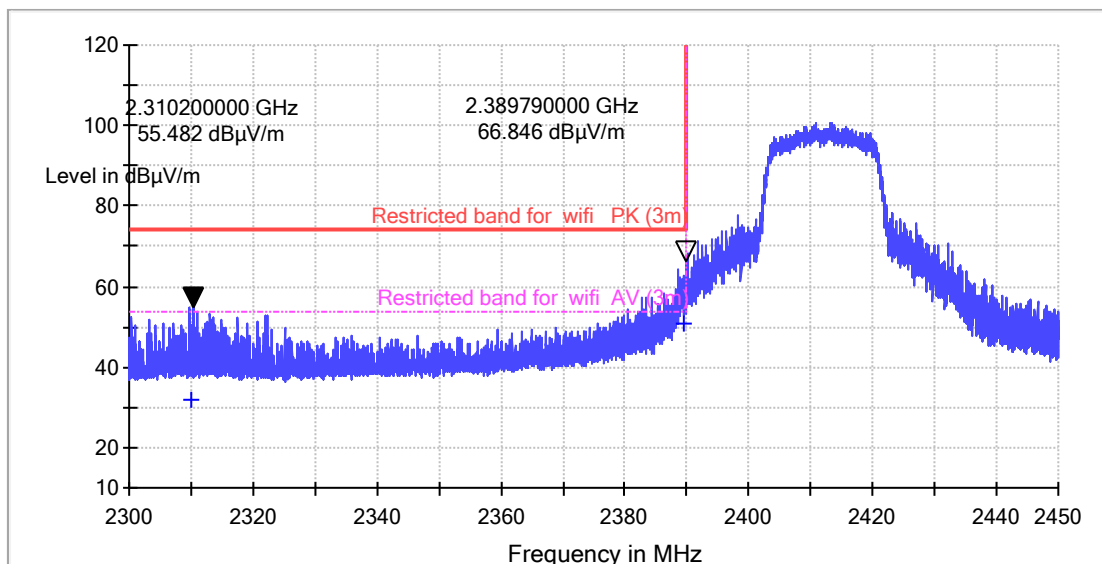
### AV Measurement:

Frequency (MHz)	AV Reading Level (dBuV)	Correction factors (dB)	AV Emission Level (dBuV/m)	AV Reading Level (dBuV/m)	Antenna polarization
2485.1	52.7	-7.8	44.9	54	H
2483.7	/	-7.8	/	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

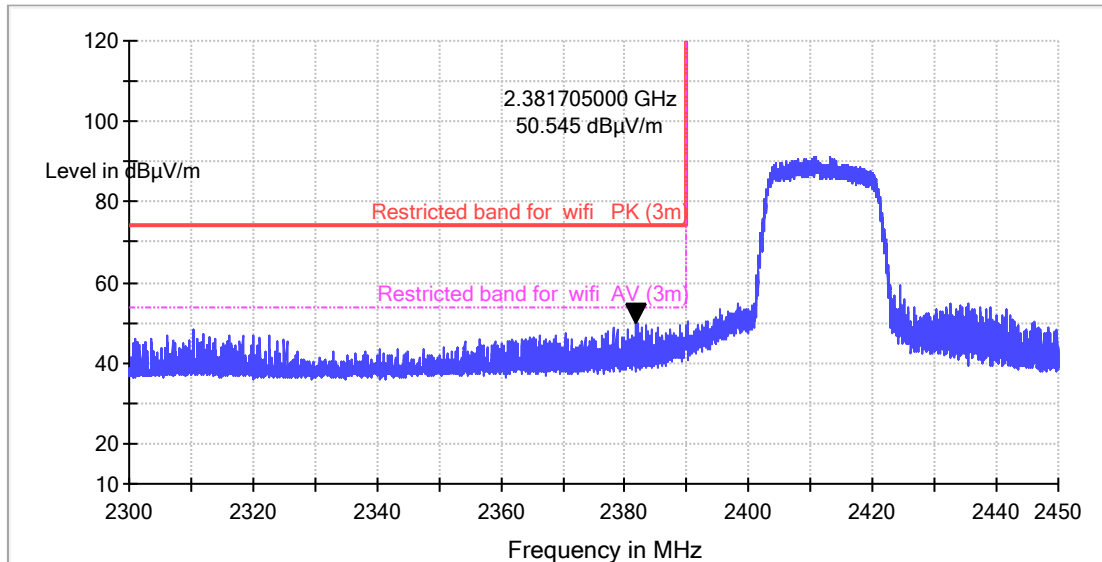
802.11n (HT20) mode with 6.5Mbps data rate  
Test at Channel 1 (2.412 GHz) in transmitting status

Horizontal



## TEST REPORT

Vertical



### PK Measurement:

Frequency (MHz)	PK Reading Level (dBuV)	Correction factors (dB)	PK Emission Level (dBuV/m)	PK Limit (dBuV/m)	Antenna polarization
2310.2	63.9	-8.4	55.5	74	H
2389.8	75.0	-8.2	66.8	74	H
2381.7	58.7	-8.2	50.5	74	V

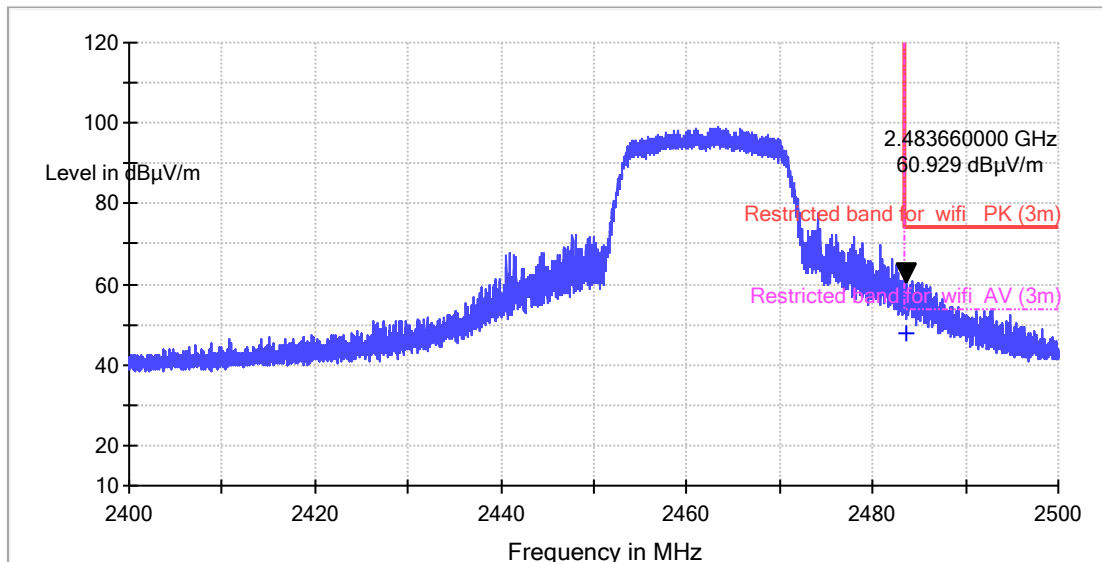
### AV Measurement:

Frequency (MHz)	AV Reading Level (dBuV)	Correction factors (dB)	AV Emission Level (dBuV/m)	AV Reading Level (dBuV/m)	Antenna polarization
2310.2	40.2	-8.4	31.8	54	H
2389.8	59.3	-8.2	51.1	54	H
2381.7	/	-8.2	/	54	V

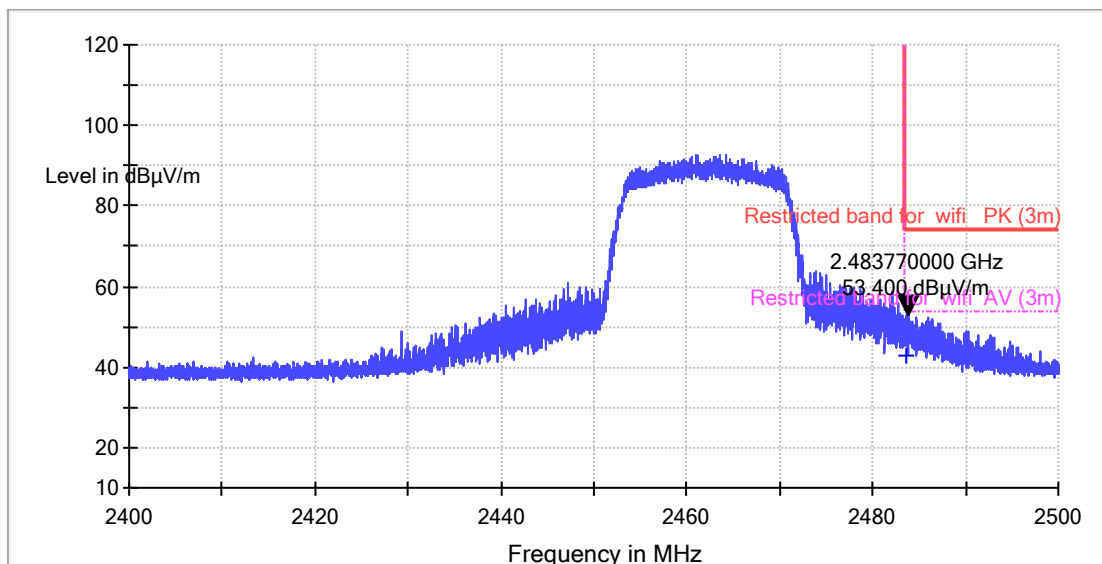
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

## TEST REPORT

Test at Channel 11 (2.462 GHz) in transmitting status  
Horizontal



Vertical



### PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2483.7	68.7	-7.8	60.9	74	H
2483.8	61.2	-7.8	53.4	74	V

## TEST REPORT

### AV Measurement:

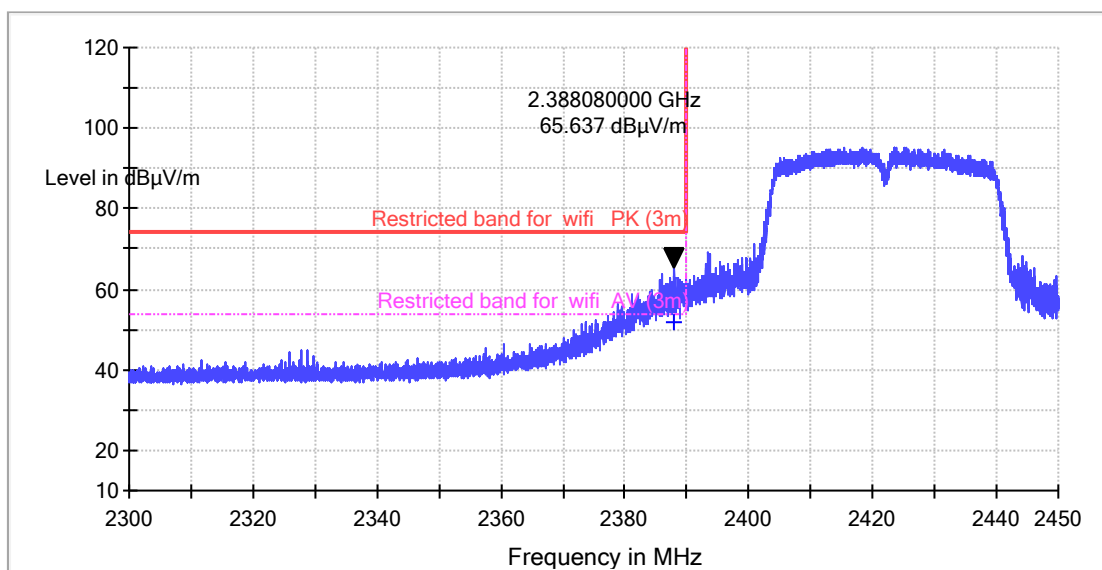
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Reading Level	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2483.7	55.5	-7.8	47.7	54	H
2483.8	50.8	-7.8	43.0	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

### 802.11n (HT40) mode with 13.5 Mbps data rate

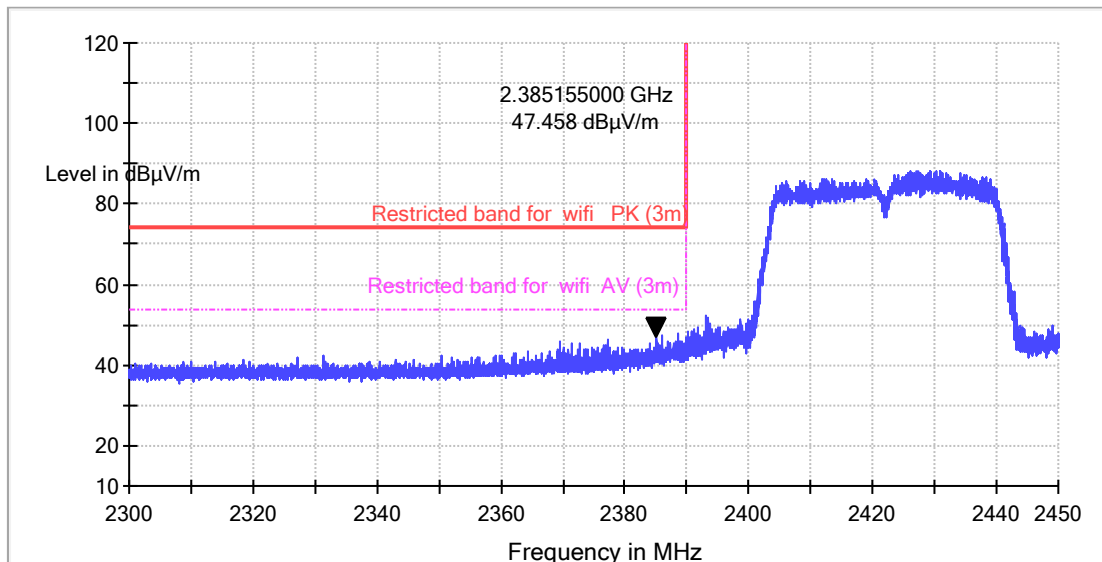
Test at Channel 3 (2.422 GHz) in transmitting status

Horizontal



## TEST REPORT

Vertical



### PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2388.1	73.7	-8.2	65.5	74	H
2385.2	55.7	-8.2	47.5	74	V

### AV Measurement:

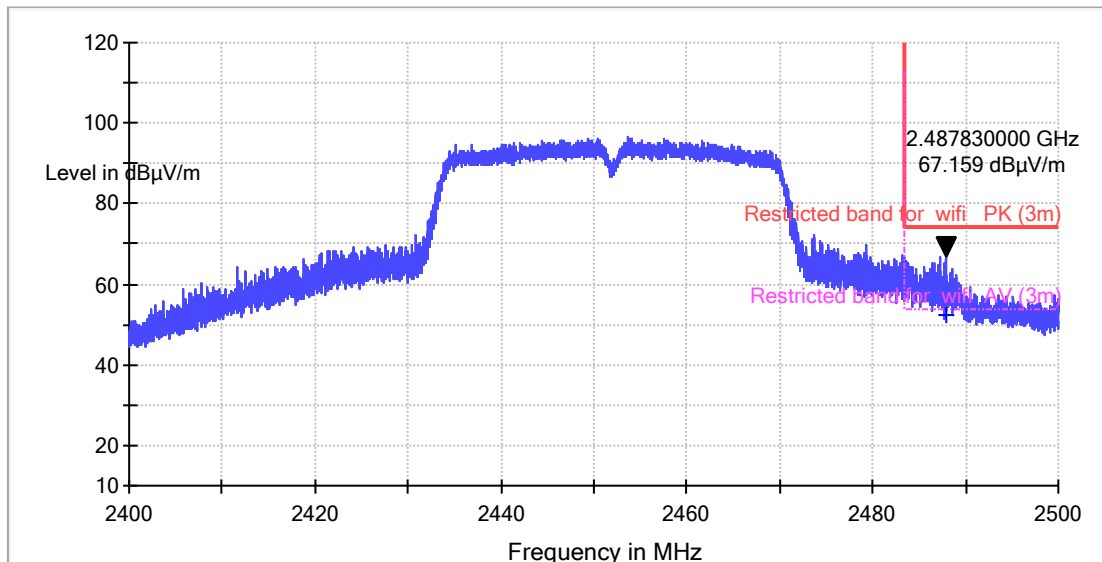
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Reading Level	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2388.1	60.1	-8.2	51.9	54	H
2385.2	/	/	/	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

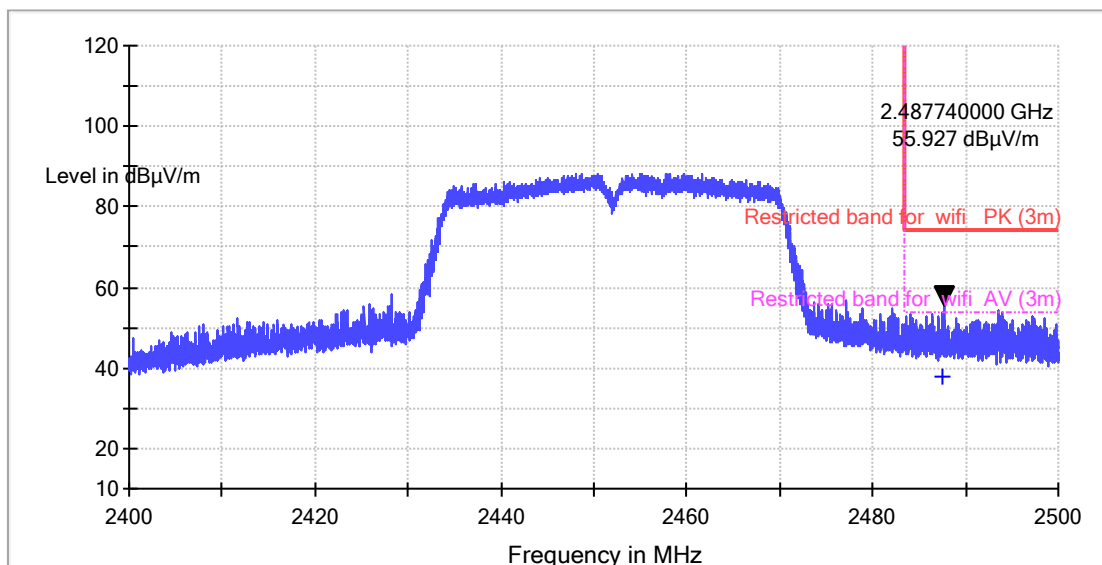


## TEST REPORT

Test at Channel 11 (2.452 GHz) in transmitting status  
Horizontal



Vertical



### PK Measurement:

Frequency (MHz)	PK Reading Level (dBuV)	Correction factors (dB)	PK Emission Level (dBuV/m)	PK Limit (dBuV/m)	Antenna polarization
2487.8	75.0	-7.8	67.2	74	H
2487.7	63.7	-7.8	55.9	74	V

## TEST REPORT

### AV Measurement:

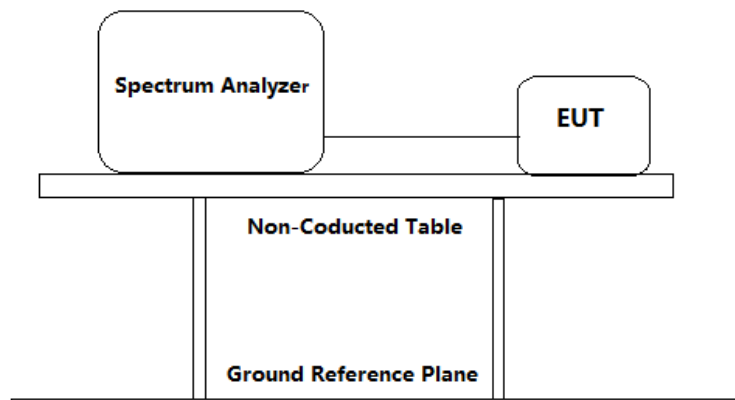
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2487.8	60.2	-7.8	52.4	54	H
2487.7	45.4	-7.8	37.6	54	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

## 4.9 Band Edges Requirement

Test Requirement:	FCC Part 15 C section 15.247  (d) 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 either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB.
Frequency Band:	2400 MHz to 2483.5 MHz
Test Method:	ANSI C63.10: Clause 11.11 and 11.13
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	For Band Edges Emission in Radiated mode, Please refer to clause 4.7

## TEST REPORT



Test Procedure: For Band Edges Emission in Radiated mode, Please refer to clause 4.7

1. Remove the antenna from the EUT and then connect a low RF cable(cable loss =1 dB, with 10dB attenuator) from the antenna port to the spectrum analyzer.
  - a) Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).
  - b) Set the center frequency and span to encompass frequency range to be measured.
  - c) RBW = 100 kHz.
  - d) VBW  $\geq$  [3  $\times$  RBW].
  - e) Detector = peak.
  - f) Sweep time = auto.
  - g) Trace mode = max hold.
  - h) Allow sweep to continue until the trace stabilizes (required measurement time may increase for low-duty-cycle applications).
  - i) For radiated Band-edge emissions within a restricted band and within 2 MHz of an authorized band edge, integration method is considered.
2. Repeat until all the test status is investigated.
3. Report the worst case.

### Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

Test result with plots as follows:

For conduct mode:

The band edges was measured and recorded Result:

The Lower Edges attenuated more than 30dB.

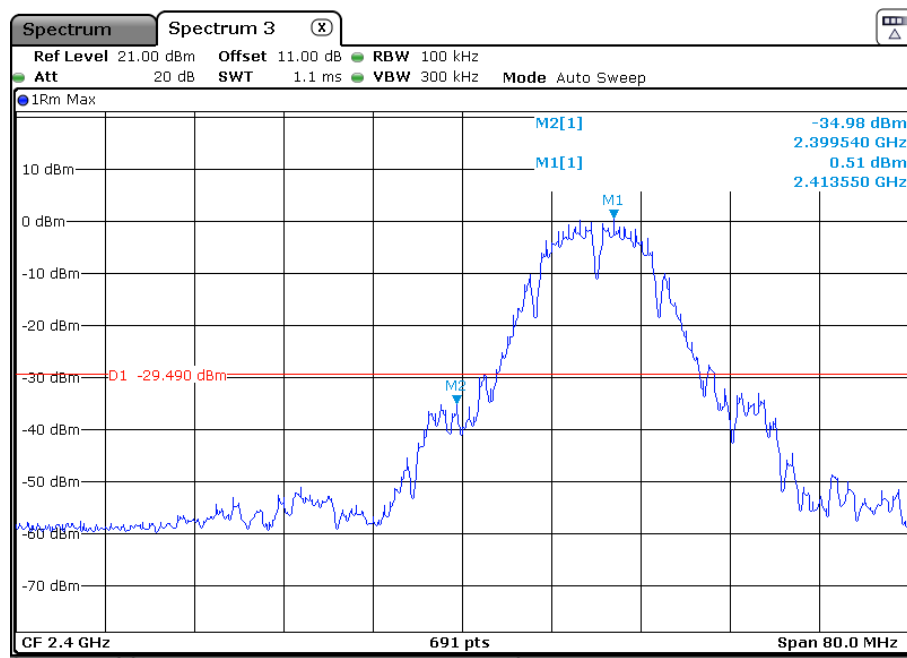
The Upper Edges attenuated more than 30dB.

## TEST REPORT

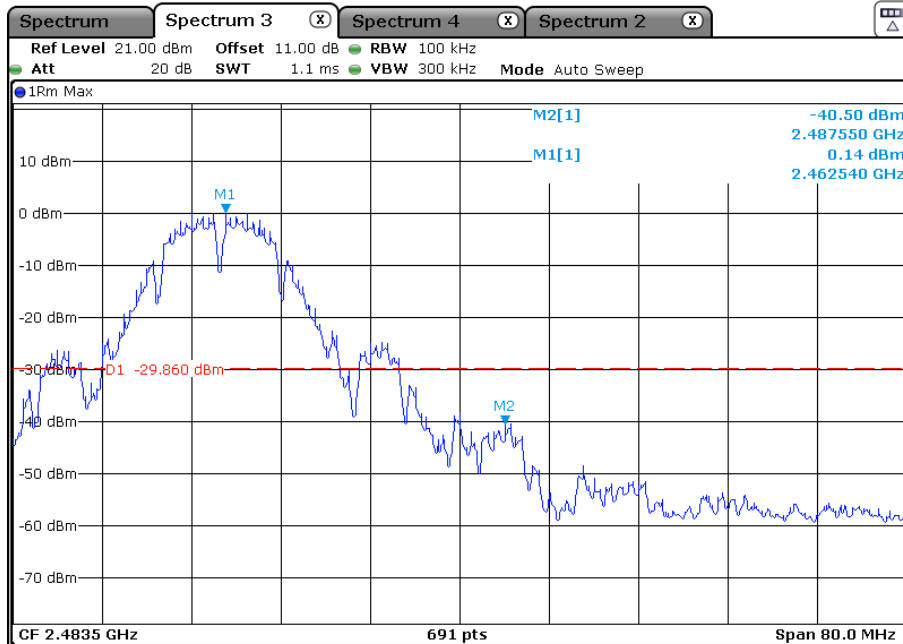
Result plots as follows:

**802.11b mode with 1Mbps data rate**

Channel1: 2.412 GHz



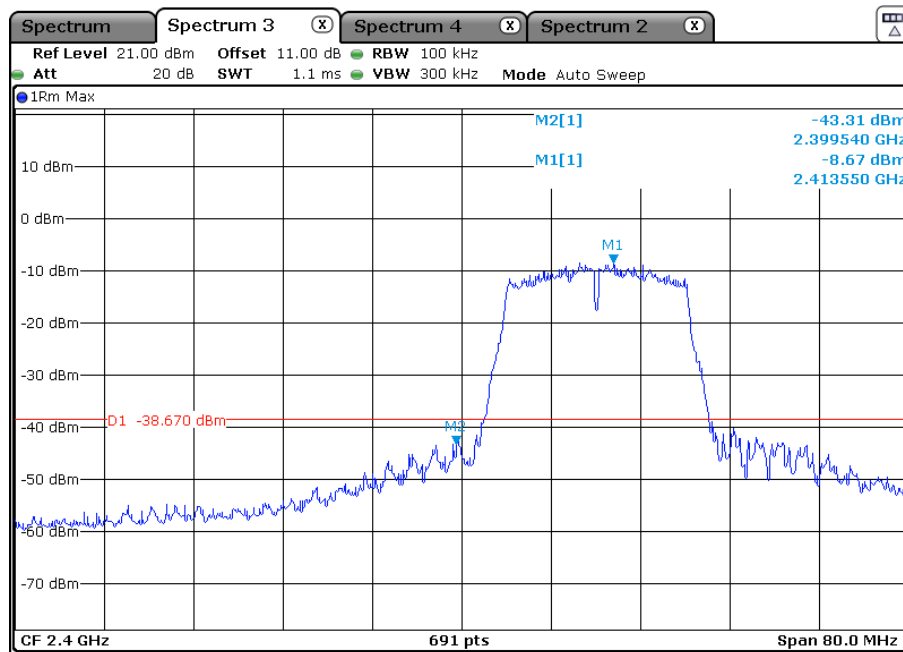
Channel 11: 2.462 GHz



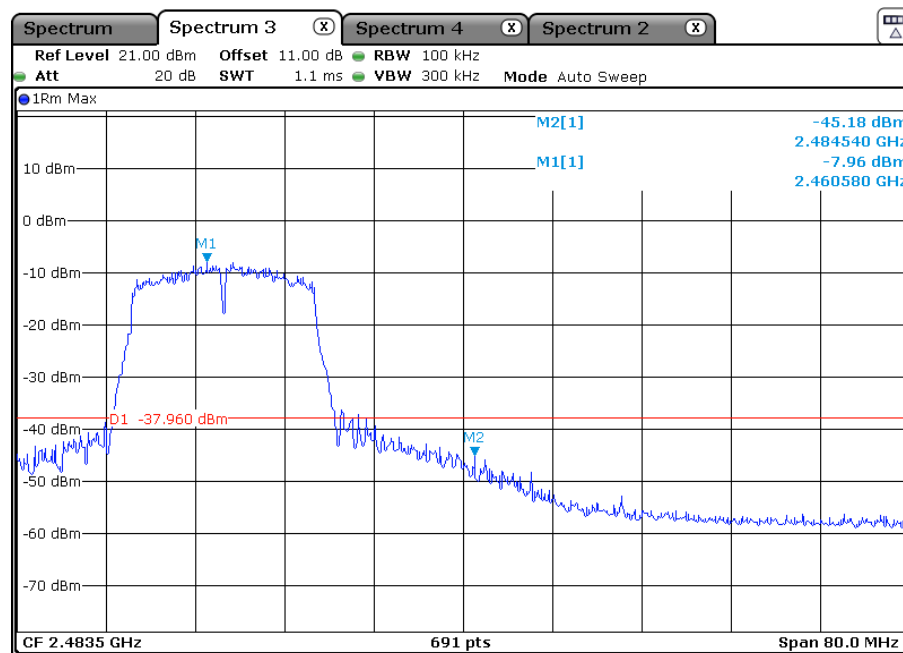
## TEST REPORT

### 802.11g mode with 6 Mbps data rate

Channel1: 2.412 GHz



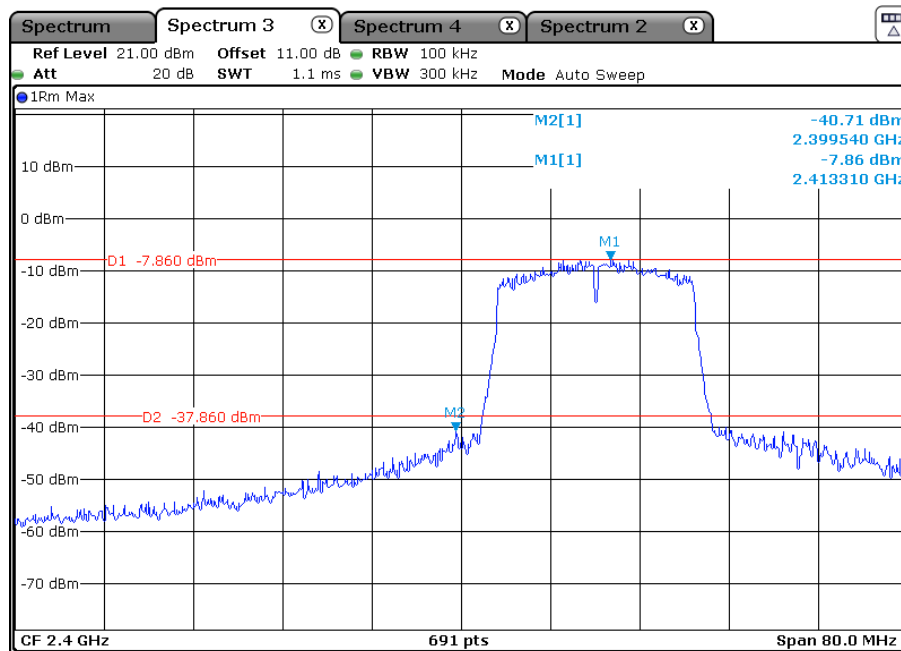
Channel 11: 2.462 GHz



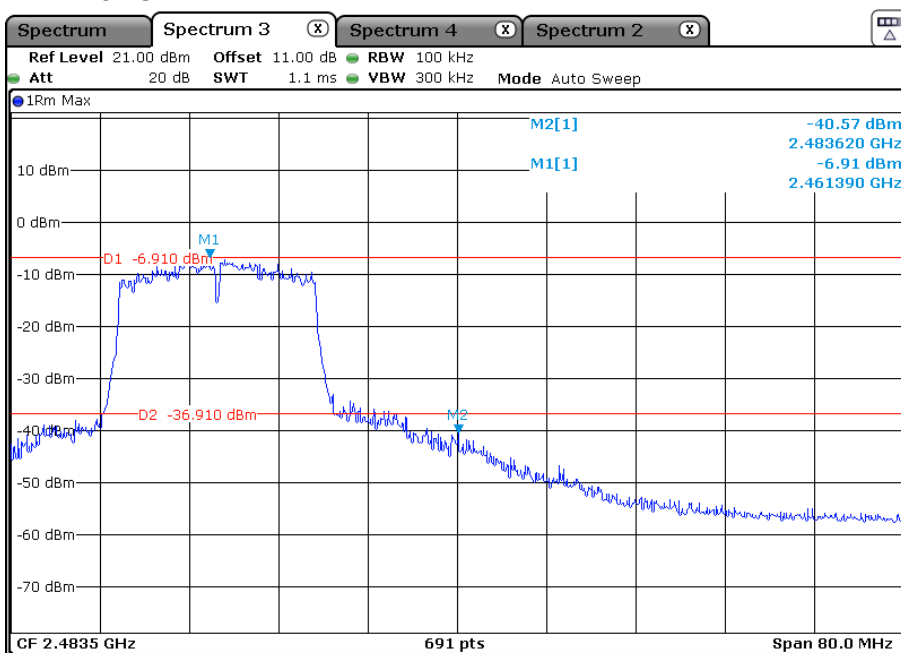
## TEST REPORT

### 802.11n(HT20) mode with 6.5Mbps data rate

Channel 1: 2.412 GHz



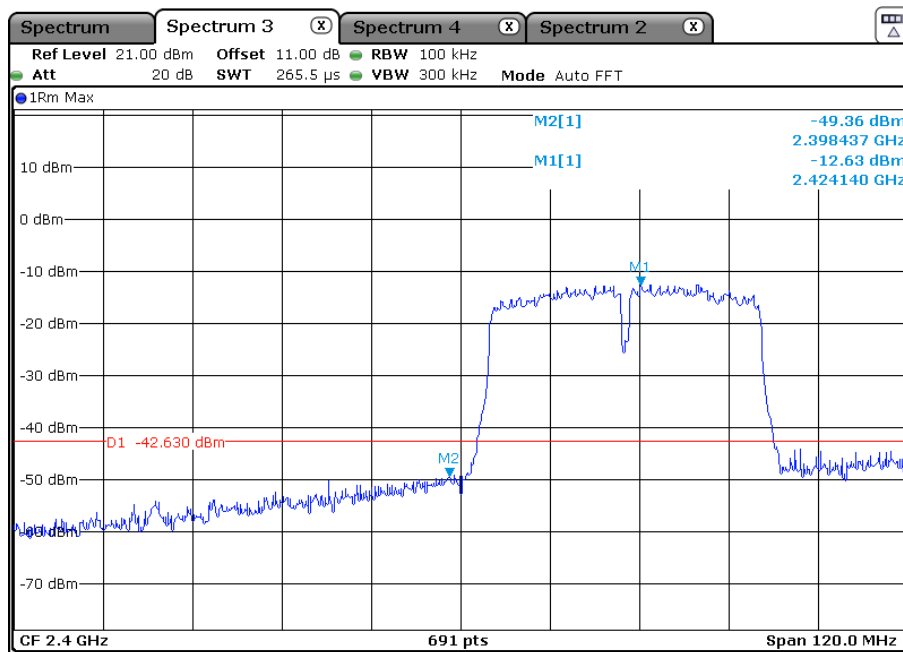
Channel 11: 2.462 GHz



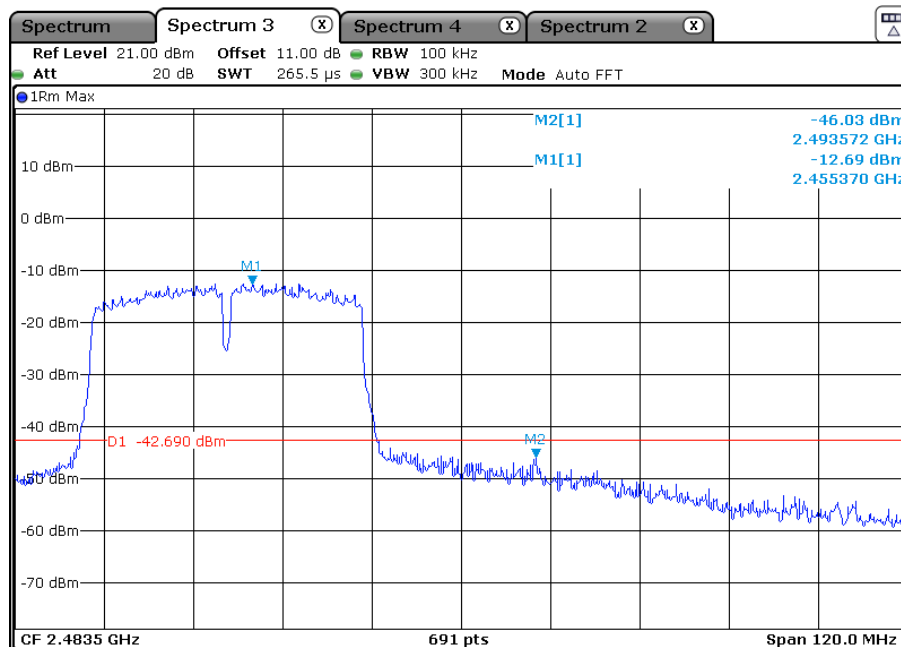
## TEST REPORT

### 802.11n(HT40) mode with 13.5 Mbps data rate

Channel 3: 2.422 GHz



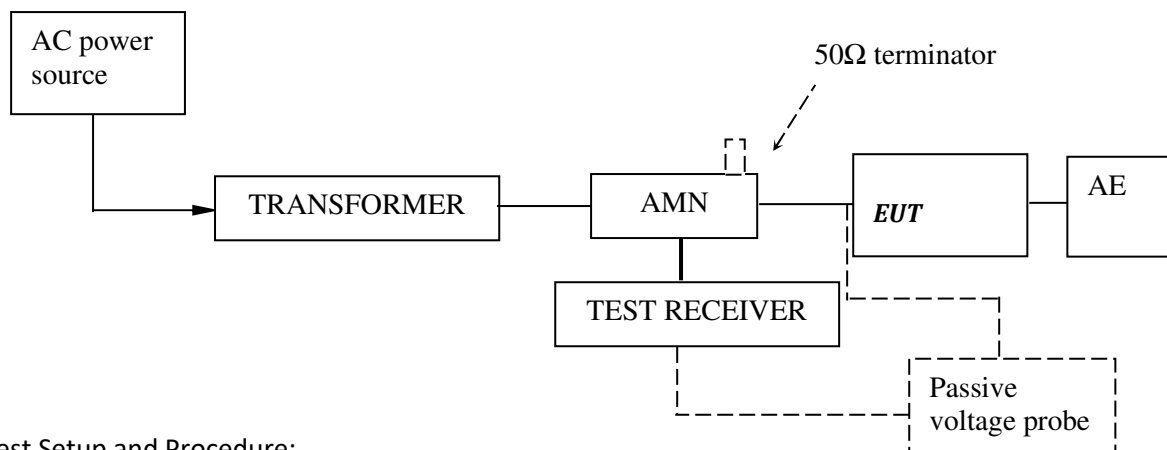
Channel 9: 2.452 GHz



## TEST REPORT

### 4.10 Conducted Emission Test

#### Test Configuration:



#### Test Setup and Procedure:

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance. Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.



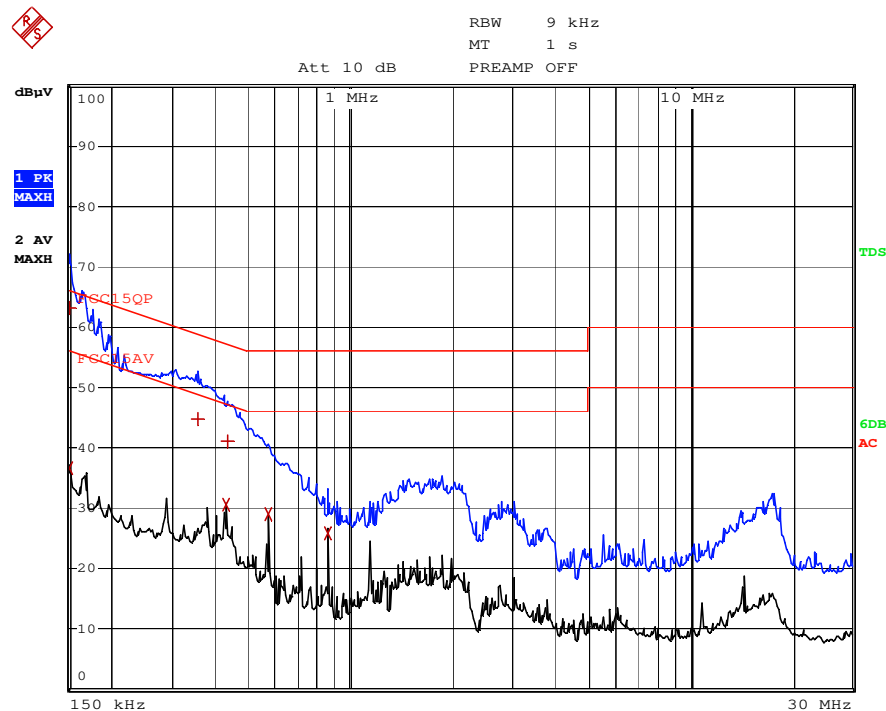
## TEST REPORT

Test Data and Curve

At main terminal: Pass

Tested Wire: Live

Operation Mode: transmitting mode



EDIT PEAK LIST (Final Measurement Results)					
Trace1:	FCC15QP				
Trace2:	FCC15AV				
Trace3:	---				
TRACE	FREQUENCY	LEVEL dBμV			DELTA LIMIT dB
1 Quasi Peak	150 kHz	63.08	L1		-2.91
2 Average	150 kHz	36.58	L1		-19.41
1 Quasi Peak	354 kHz	44.64	L1		-14.22
2 Average	430 kHz	30.45	L1		-16.79
1 Quasi Peak	434 kHz	40.95	L1		-16.21
2 Average	570 kHz	29.06	L1		-16.93
2 Average	858 kHz	25.80	L1		-20.20

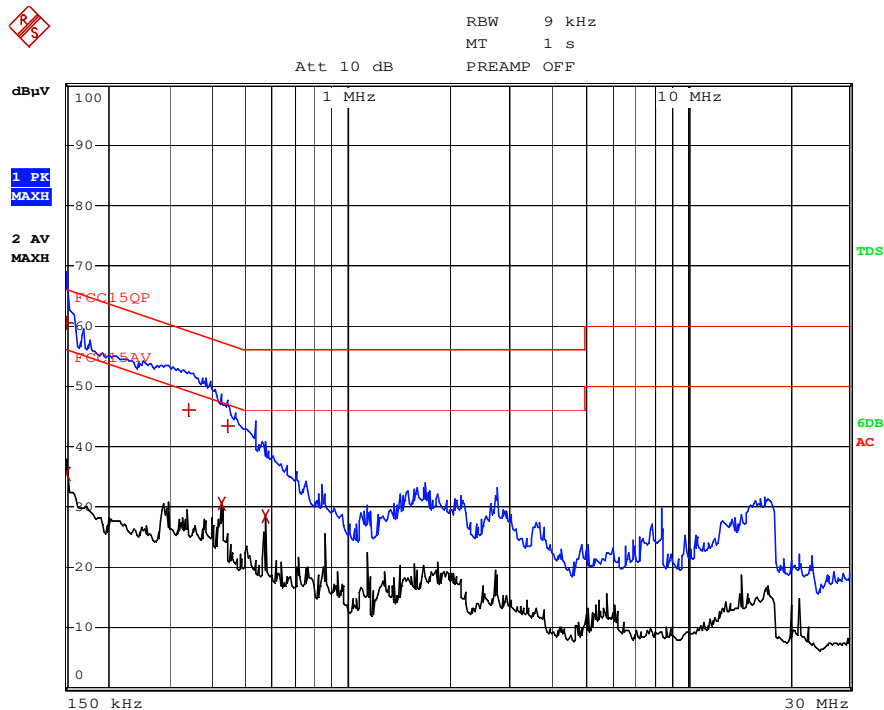
Remark:

1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

## TEST REPORT

Tested Wire: Neutral

Operation Mode: transmitting mode



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15QP			
Trace2:	FCC15AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	150 kHz	60.49 L1		-5.50
2 Average	150 kHz	35.52 L1		-20.47
1 Quasi Peak	338 kHz	46.14 L1		-13.10
2 Average	426 kHz	30.58 L1		-16.74
1 Quasi Peak	442 kHz	43.45 L1		-13.57
2 Average	570 kHz	28.45 L1		-17.54

1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

## TEST REPORT

### 5.0 Test Equipment List

#### Radiated Emission/Radio

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m <sup>3</sup>	ETS• LINDGREN	2022-04-06	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2022-09-02	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2021-11-10	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2022-06-25	1Y
EM061-03	TRILOG Super Broadband test Antenna (30 MHz-1.5 GHz) (TX)	VULB 9161	SCHWARZBEC K	2022-06-18	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBEC K	2021-09-18	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2022-06-18	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2022-04-22	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2022-04-22	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2022-04-05	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2022-04-05	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2022-04-23	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2022-07-19	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2022-05-11	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2022-02-04	1Y
SA012-74	Digital Multimeter	FLUKE175	FLUKE	2022-10-09	1Y
EM010-01	Regulated DC Power supply	PAB-3003A	GUANHUA	N/A	1Y
SA040-22	Regulated DC Power supply	IT6721	ITECH	2022-09-01	1Y
EM084-06	Audio Analyzer	8903B	HP	2022-04-11	1Y
EM046-05	Power meter	NPR6A	R&S	2022-03-11	1Y
EM046-06	Power meter	NPR6A	R&S	2022-03-11	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A
EM045-01-09	EMC32 software (328/893)	V9.26.01	R&S	N/A	N/A

#### Conducted emission at the mains terminals

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM080-05	EMI receiver	ESCI	R&S	2022-07-15	1Y
EM006-05	LISN	ENV216	R&S	2022-06-06	1Y
EM006-06	LISN	ENV216	R&S	2022-09-03	1Y
EM006-06-01	Coaxial cable	/	R&S	2022-04-05	1Y
EM004-04	EMC shield Room	8m×3m×3m	Zhongyu	2022-01-21	1Y

\*\*\*\*\*End of the test report\*\*\*\*\*