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Lewis Hyman Inc.

TEST REPORT

SCOPE OF WORK
EMC TESTING–See page 2

REPORT NUMBER
230510042GZU-003

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TEST REPORT

Applicant Name & Address	:	Lewis Hyman Inc. 860 East Sandhill Ave, Carson, CA, 90746, USA
Manufacturing Site	:	QINGDAO TRI-LINK LOCK GROUP CO., LTD. 11F, BUILDING 2, TIANBAO MANSION 61 HAIER ROAD QINGDAO
Intertek Report No:		230510042GZU-003
FCC ID:		2AYCK174XXXX863XXXX

Test standards

47 CFR PART 15 Subpart C: 2021 section 15.247

Sample Description

Product	:	WiFi lock
Model No.	:	1745020-1745999, 8635012-8635999, 8730000-8739999
Electrical Rating	:	DC 4x1.5V Battery
Serial No.	:	Not Labeled
Date Received	:	10 May 2023
Date Test Conducted	:	22 May 2023-04 January 2024

Prepared and Checked By

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Project Engineer

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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
Duty Cycle	FCC KDB 558074 D01 15.247 Meas Guidance v05r02, Clause 6	ANSI C63.10: Clause 11.6	PASS
Maximum Average Conducted Output Power	FCC PART 15 C clause 5.247(b)(3)	ANSI C63.10: Clause 11.9.2.3.1 RSS-Gen clause 6.12	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e)	ANSI C63.10: Clause 11.10.2 RSS-Gen clause 6.13	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

Remark:
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
Model difference:
Series model 1745020-1745999 and series model 8730000-8739999 are the same as series model 8635012-8635999, except that series model 1745020-1745999 are with Fingerprint, Series model 8635012-8635999 and series model 8730000-8739999 are not.
Serial model 1745020-1745999 and Serial model 8635012-8635999 are identical except for Front panel, Motor chip and Power Chip as well as the PCB Board series No.
Series model 1745020-1745999 and series model 8730000-8739999 are identical except for Front panel, Motor chip, Power Chip, the PCB board series No. as well as the antenna of the WIFI module.
Series model 8635012-8635999, series model 8730000-8739999 are identical except for Front panel, the PCB board series No. as well as the antenna of the WIFI module.
All models in the series 1745020-1745999 are the same except for the name.
All models in the series 8635012-8635999 are the same except for the name.
All models in the series 8730000-8739999 are the same except for the name.

TEST REPORT

All models use the same WIFI module and Bluetooth module.
After Pre-scanning model 1745020, model 8635012 and model 8730000,the full test data for the model 1745020 and the radiated emissions test data for model 8730000 were recorded in the report as the worst test data.

2.0 General Description

2.1 Product Description

Operating Frequency:	2412 MHz to 2462 MHz for 802.11b
Type of Modulation:	802.11b: DSSS(CCK/QPSK/BPSK)
Transmit Data Rate:	802.11b :1/2/5.5/11 Mbps
Number of Channels	11 Channels for 802.11b
Channel Separation:	5 MHz
Antenna Type	FPC-2.4G antenna
Function:	WIFi lock with finger print with 2.4 GHz WIFI
EUT Power Supply:	DC 4x1.5V Battery

EUT channels and frequencies list:

For 802.11b: test frequencies are lowest channel 1: 2412 MHz, middle channel 6: 2437 MHz and highest channel 11: 2462 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)

Remaining portions are subject to the following procedures:
1. Receiver portion of WIFI: exempt from technical requirement of this Part.

2.3 Test Methodology

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. It was powered by DC 6V 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.

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:

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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

Description	Manufacturer	Model No.	SN/Version	Supplied by
For normal operation	HP	Compaq 6710b	SN:CNU8240LF9	Intertek
For fixing frequency	Applicant	sscom	Version:4.2	Applicant

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 Lewis Hyman Inc.
will be incorporated in each production model sold / leased in the United States.

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	Supplied by
NoteBook	HP	Compaq 6710b	SN:CNU8240LF9	Intertek
Control board	WIK	CNMDIP34	Version:3434	WIK

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Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek
USB extension cord	USB-01	USB	1.0 m(shielded)	WIK

TEST REPORT

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:

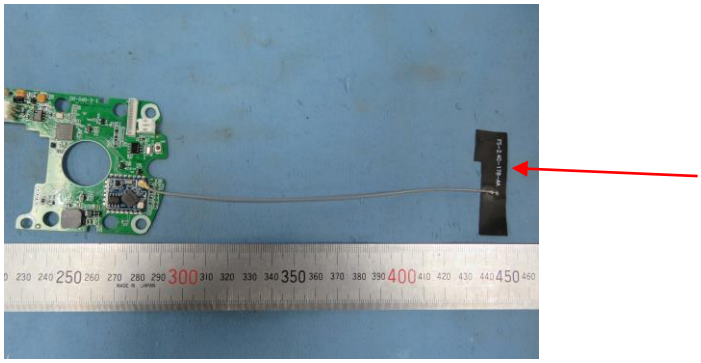
(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the 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 1 is 2 dBi and antenna 2 is 1.3 dbi as declared by applicant.

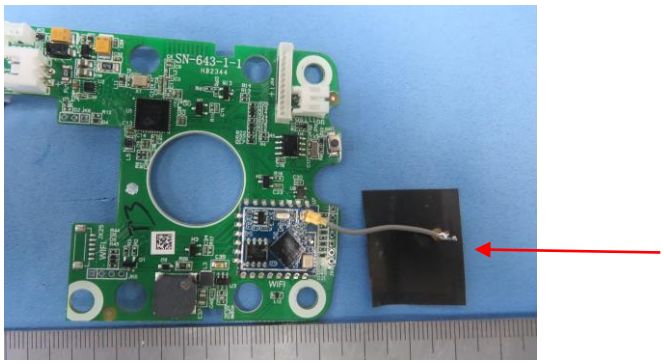
Series model 1745020-1745999, 8635012-8635999

Antenna1:



Series model 8730000-8739999

Antenna 2:



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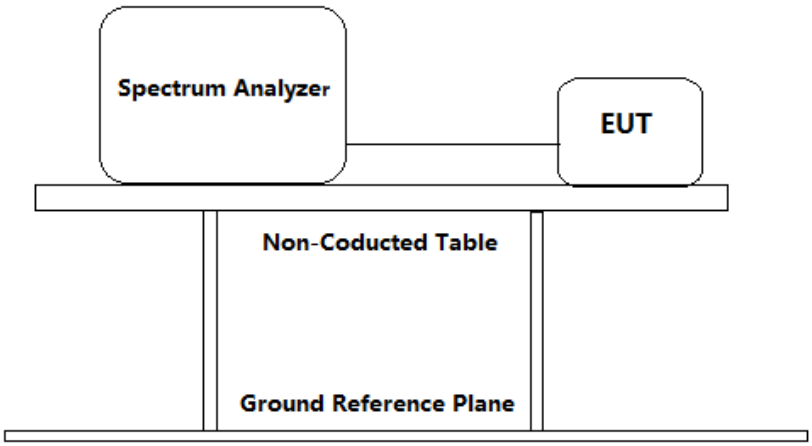
4.2 6 dB Bandwidth (DTS bandwidth)

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) from the antenna port to the spectrum.
2. Set the spectrum analyzer:
   a) Set RBW = 100 kHz
   b) Set the VBW⩾ [3 × 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.
4. Report the worst case.

TEST REPORT

Used Test Equipment List

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

6 dB bandwidth

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured 6dB bandwidth (MHz)	Limit	Result
1	2412	802.11b	1 Mbps	9.97	≥500KHz	Pass
6	2437		1 Mbps	10.029		Pass
11	2462		1 Mbps	9.971		Pass

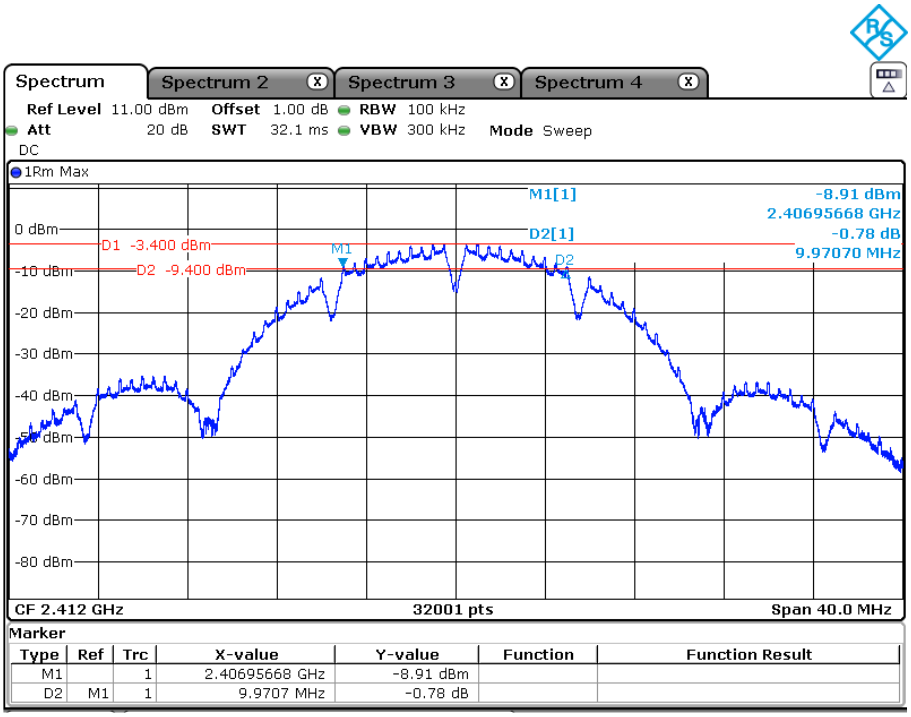
TEST REPORT

Result plot as follows:

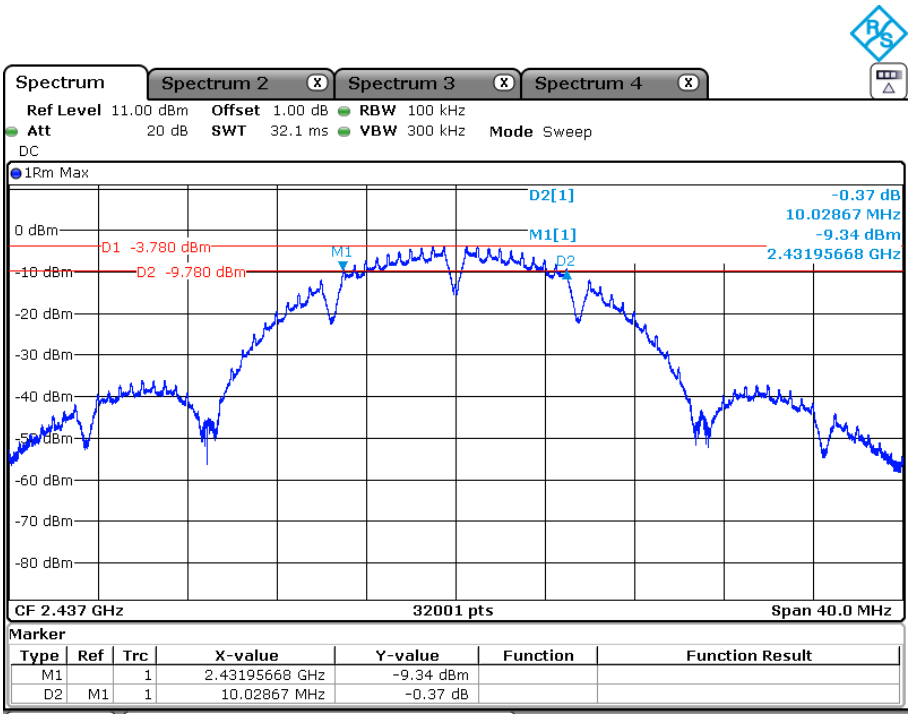
6dB bandwidth:

802.11b mode with 11Mbps data rate

Channel 1: 2.412GHz



Channel 6: 2.437GHz:



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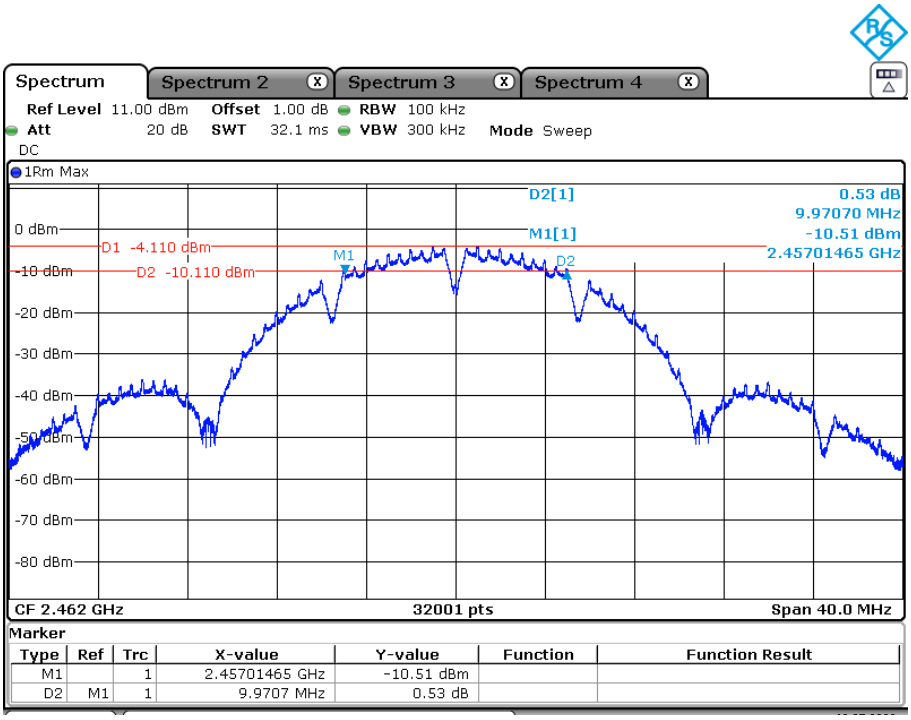
Channel 11: 2.462GHz:

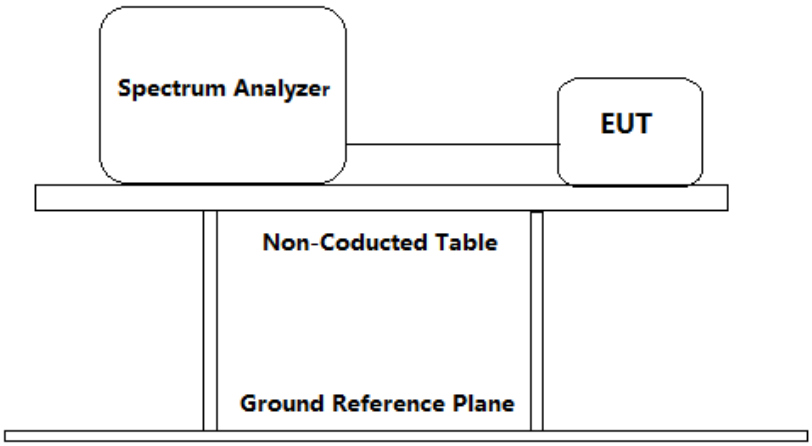


TEST REPORT

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) 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 ⩾ [3 x RBW]
   b) Set RBW ⩾OBW if possible; otherwise, set RBW to the largest available value. Span = Zero span
   c) Set VBW ⩾ 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 result:

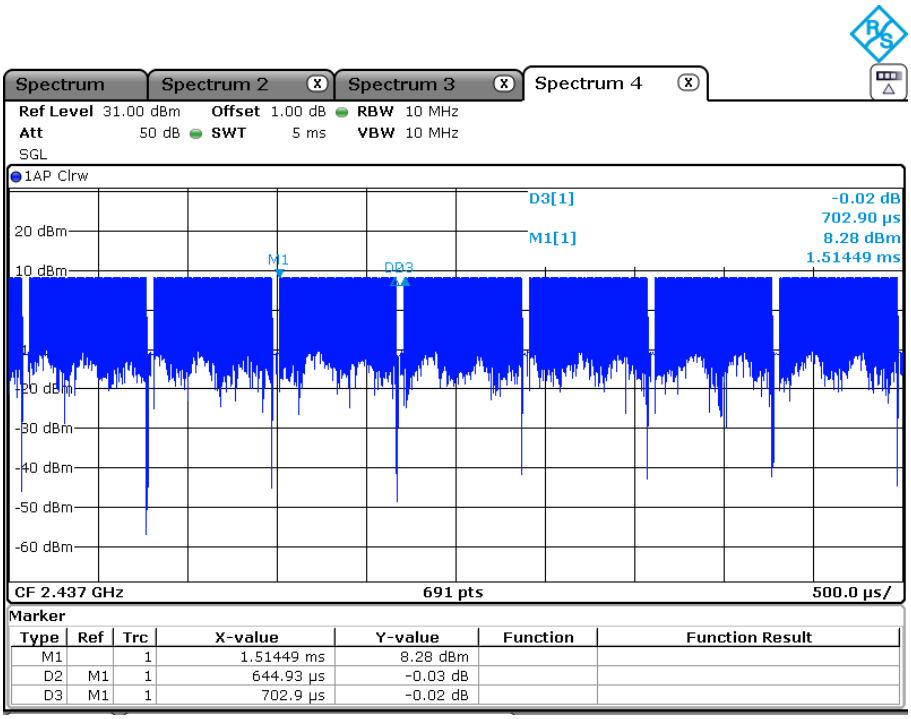
TEST REPORT

Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
6	2437	802.11b	0.645	0.703	91.7

Result plot as follows:

802.11b mode

Channel 6: 2437 MHz:



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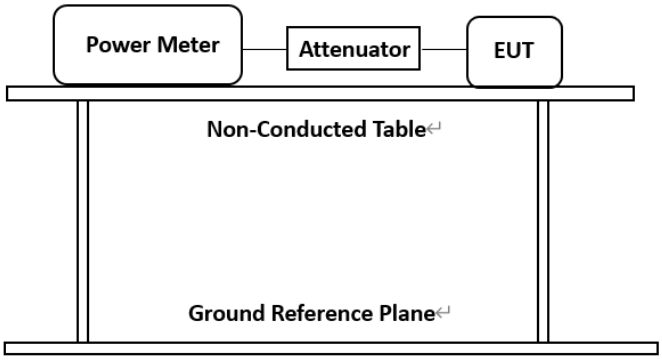
4.4 Maximum Average Conducted Output Power

Test Requirement:	FCC Part 15 C section 15.247 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. Clause 5.4(d): For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W. 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 10log(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.

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 Power (dBm)	Limit Measured Channel Power	Result
1	2412	802.11b	1 Mbps	8.03	1W (30dBm)	Pass
6	2437		1 Mbps	7.8		Pass
11	2462		1 Mbps	7.6		Pass

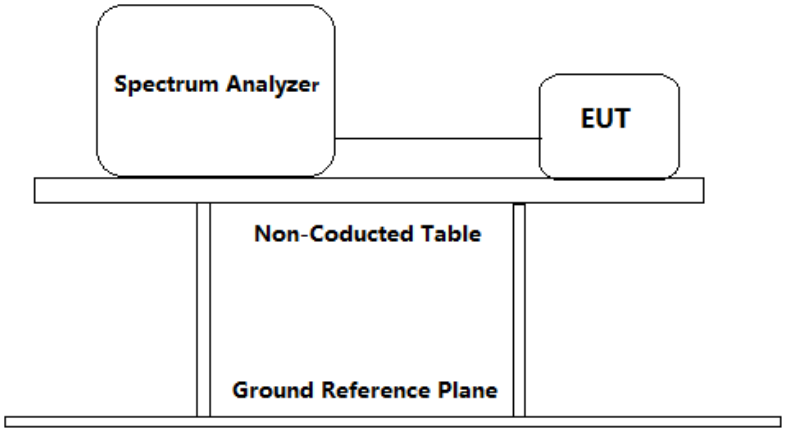
Remark:

The measured power in the table has considered the compensation of duty cycle.
cable lose=1.0 dB
Antenna gain=2 dBi
e.i.r.p=output power + antenna gain

4.4 Peak Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247 (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. 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.
Test Method:	ANSI C63.10: Clause 11.10.2
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) 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 × DTS bandwidth.
   c) Set the RBW to 3 kHz ⩽ RBW ⩽ 100 kHz.
   d) Set the VBW ⩾ [3 × RBW].
   e) Detector = peak.
   f) Sweep time = auto couple.
   g) Trace mode = max hold.
   h) Allow trace to fully stabilize.
   i) Use the peak marker function to determine the maximum amplitude level within

the RBW.

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.

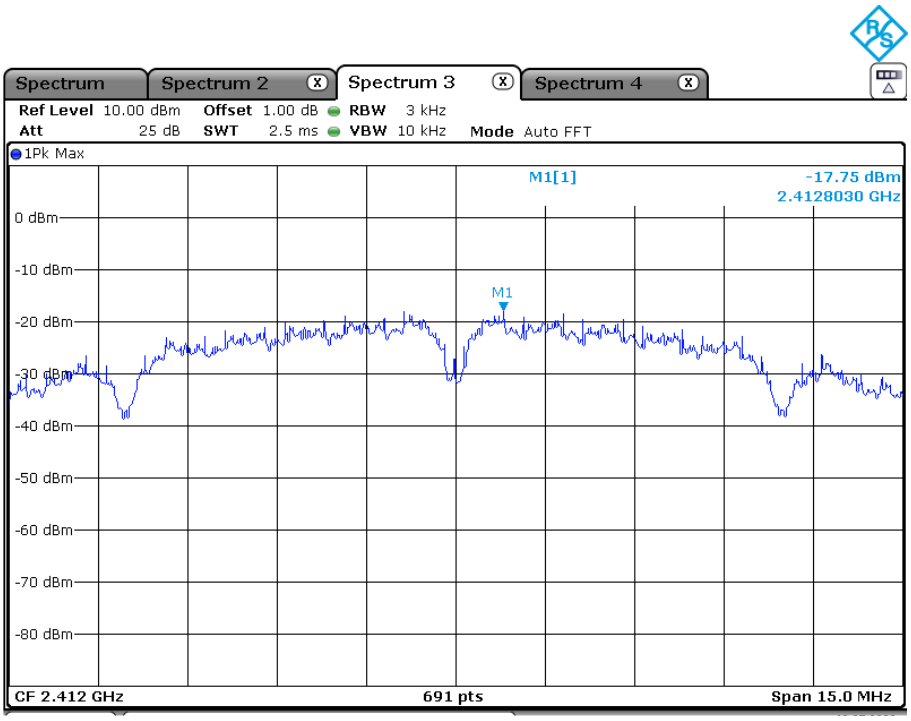
Test result:

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured Peak Power Spectral Density (dBm/3kHz)	Limit	Result
1	2412	802.11b	1 Mbps	-17.75	8dBm/ 3 KHz	Pass
6	2437		1 Mbps	-18.23		Pass
11	2462		1 Mbps	-18.42		Pass

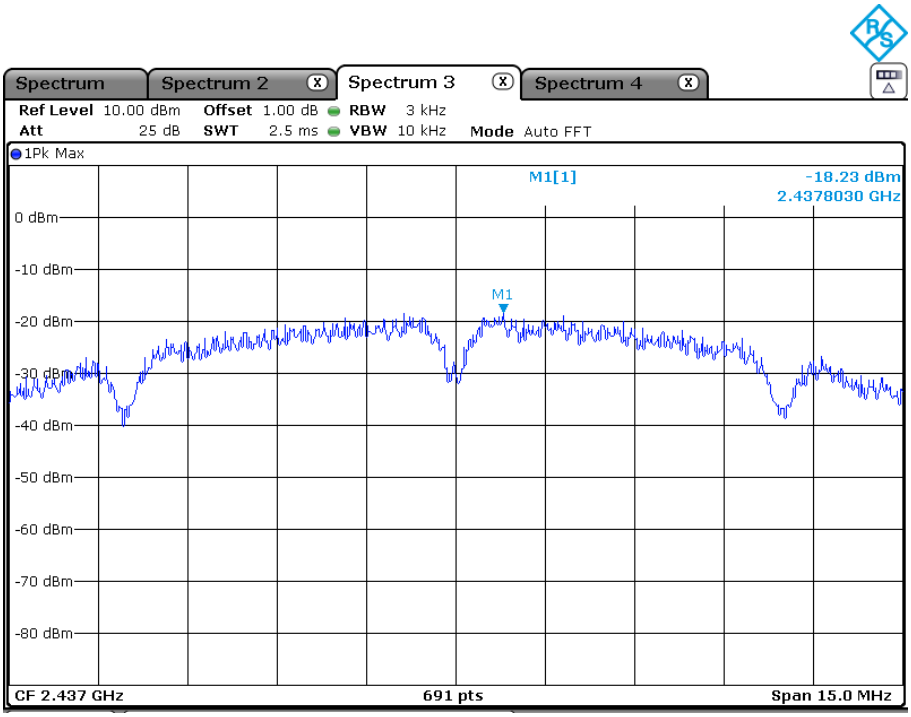
TEST REPORT

Result plot as follows:

802.11b mode with 11Mbps data rate
Channel 1: 2.412GHz:

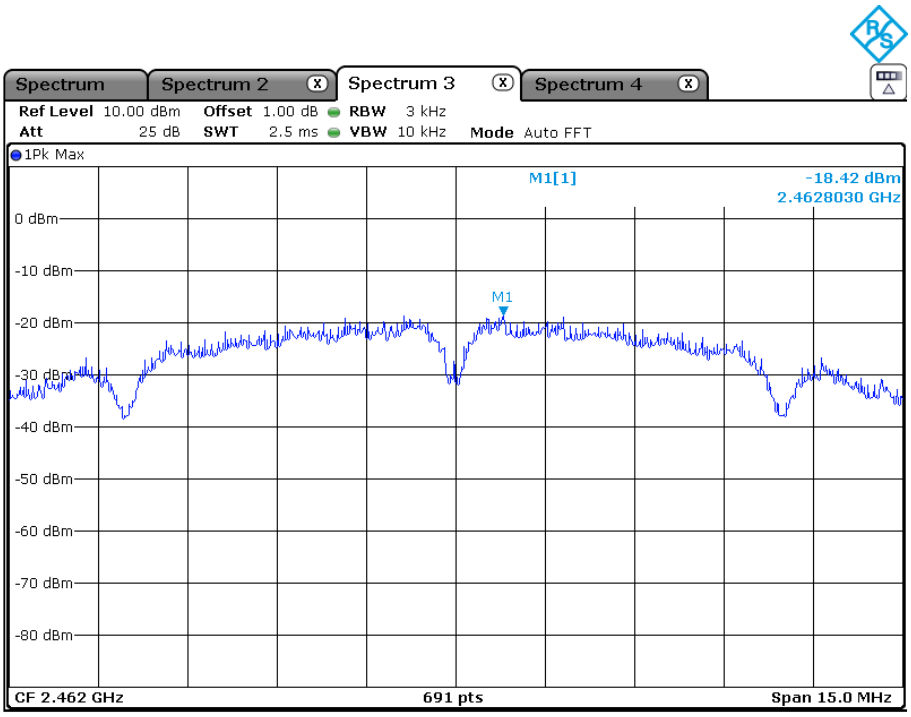


Channel 6: 2.437GHz:



TEST REPORT

Channel 11: 2.462GHz:



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4.5 Out of Band Conducted Emissions

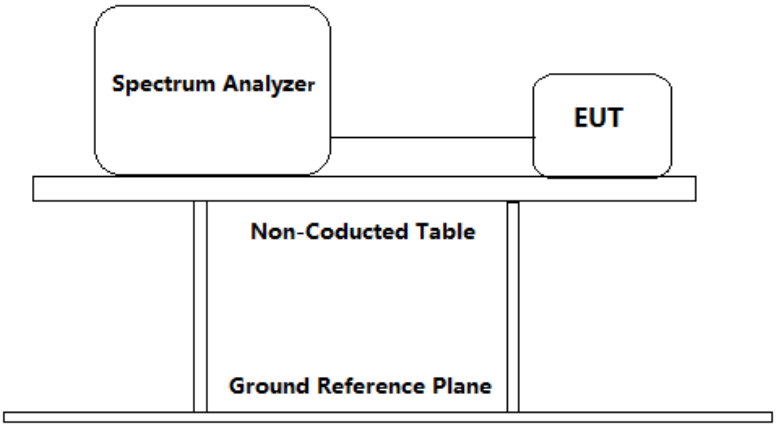
Test Requirement: FCC Part 15 C section 15.247

(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.

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) 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 ⩾ 1.5 × DTS bandwidth.
   c) Set the RBW = 100 kHz.
   d) Set the VBW ⩾ [3 × 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 PSD level.
   Note that the channel found to contain the maximum PSD level can be used to

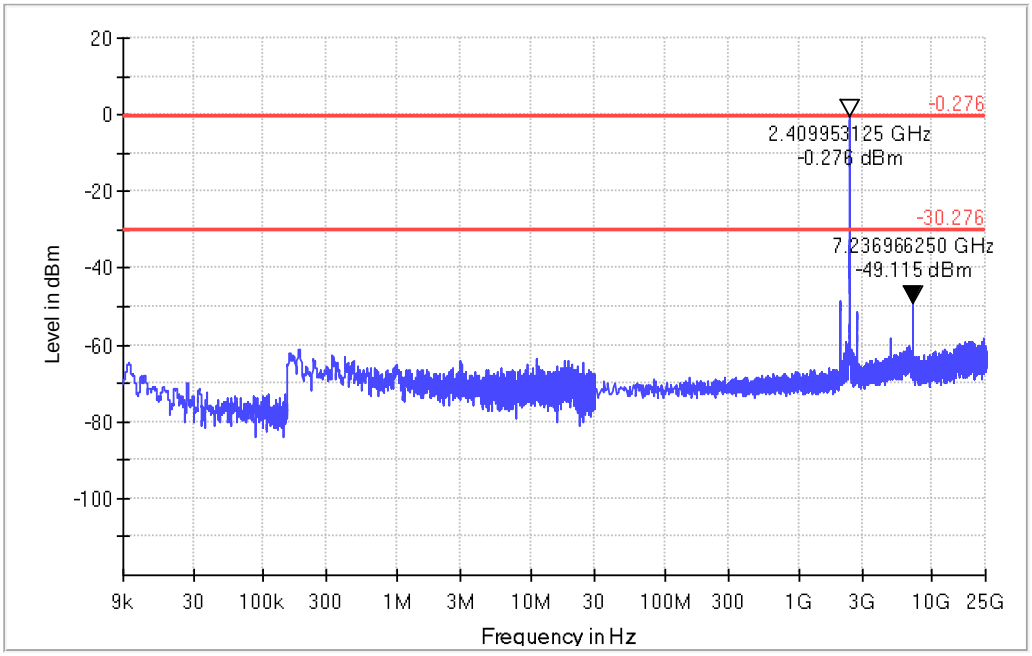
establish the reference level

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 ⩾ [3 × 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:

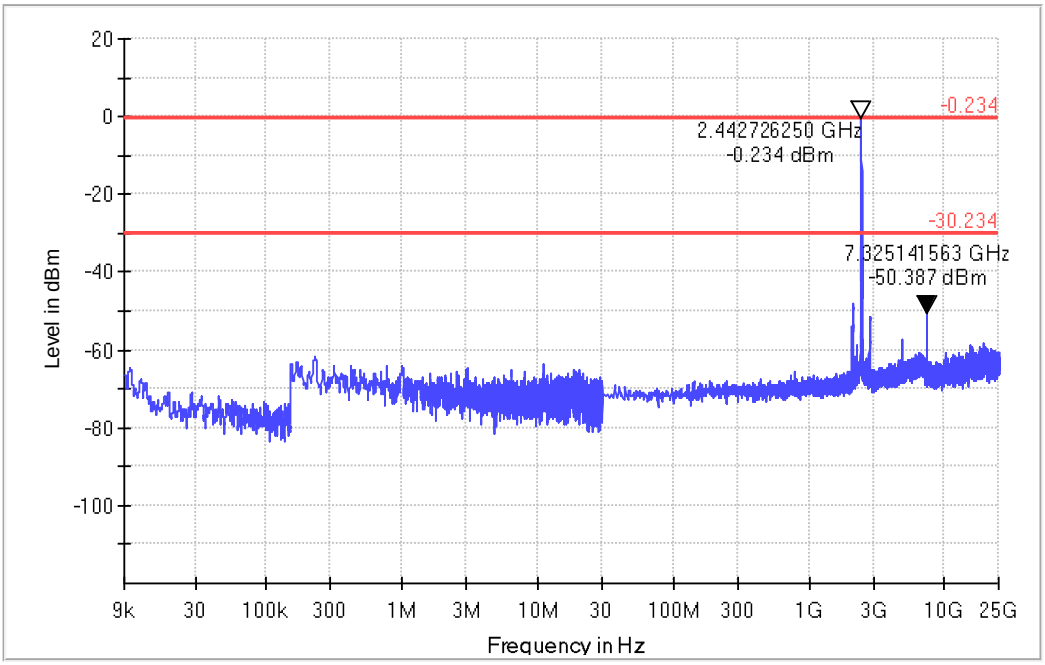
802.11b mode with 1Mbps data rate
Channel 1: 2.412GHz:



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.

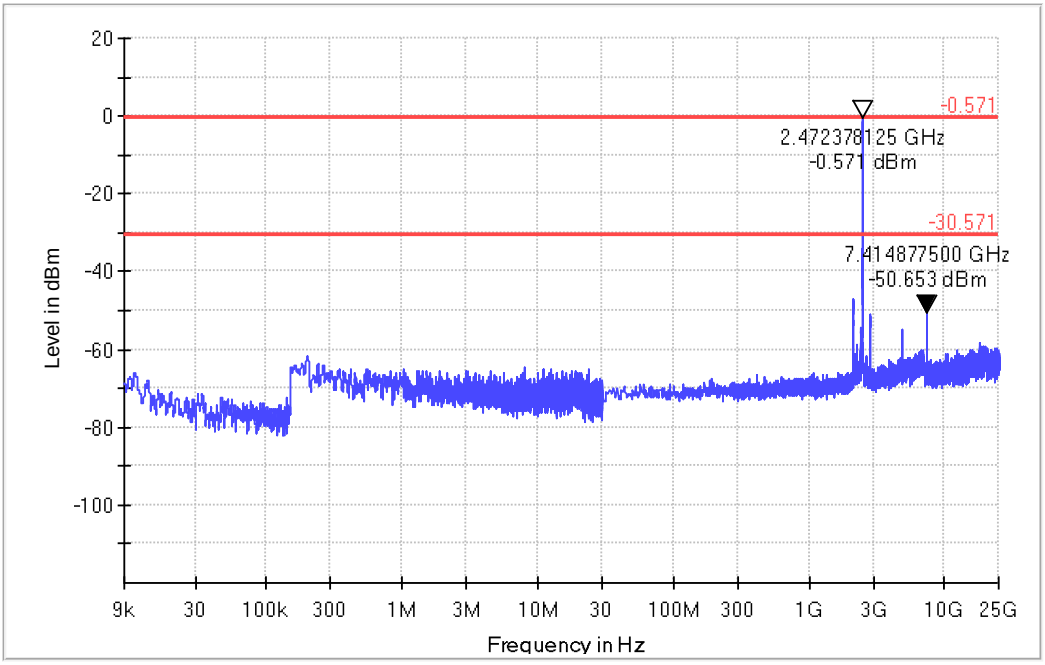
TEST REPORT

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:



TEST REPORT

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.

4.6 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

4.7 Radiated Emissions in Restricted Bands

Test Requirement:	FCC Part 15 C section 15.247 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)). Clause 5.5: Category I licence-exempt equipment is required to comply with the provisions in RSS-Gen with respect to emissions falling within restricted frequency bands. These restricted frequency bands are listed in RSS-Gen.
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 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 dBμV/m between 30MHz & 88MHz; 43.5 dBμV/m between 88MHz & 216MHz; 46.0 dBμV/m between 216MHz & 960MHz; 54.0 dBμV/m above 960MHz.
Detector:	For Peak and Quasi-Peak value: RBW = 1 MHz for f ≥ 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 ≥ RBW

Sweep = auto
Detector function = peak for f ≥ 1 GHz, QP for f < 1 GHz
Trace = max hold

For AV value:
RBW = 1 MHz for f ≥ 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 + Correct Factor + AV

Where:
FS = Field Strength in dBµV/m
RA = Receiver Amplitude (including preamplifier) in dBµV
AF = Antenna Factor in dB
CF = Cable Attenuation Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in –dB
Correct Factor = AF + CF – AG + PD

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:
FS = RA + AF + CF - AG + PD + AV
Assume a receiver reading of 62.0 dBµV is obtained. The antenna factor of 7.4 dB/m 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 dBµV/m.
RA = 62.0 dBµV
AF = 7.4 dB/m
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 dBµV/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:

TEST REPORT

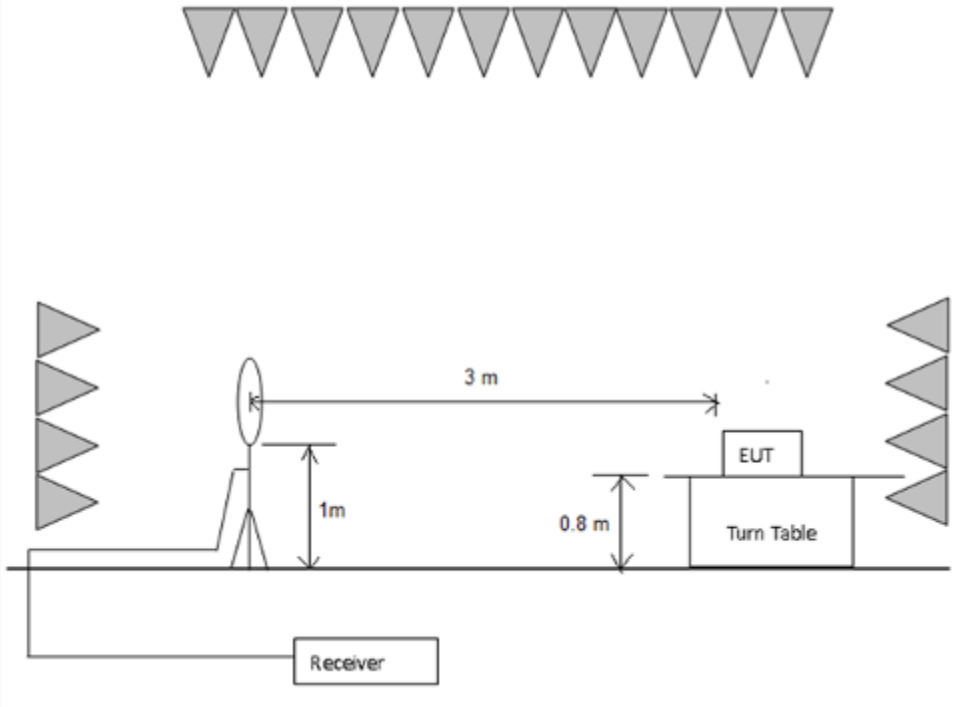
FCC Part 15 C section 15.247

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

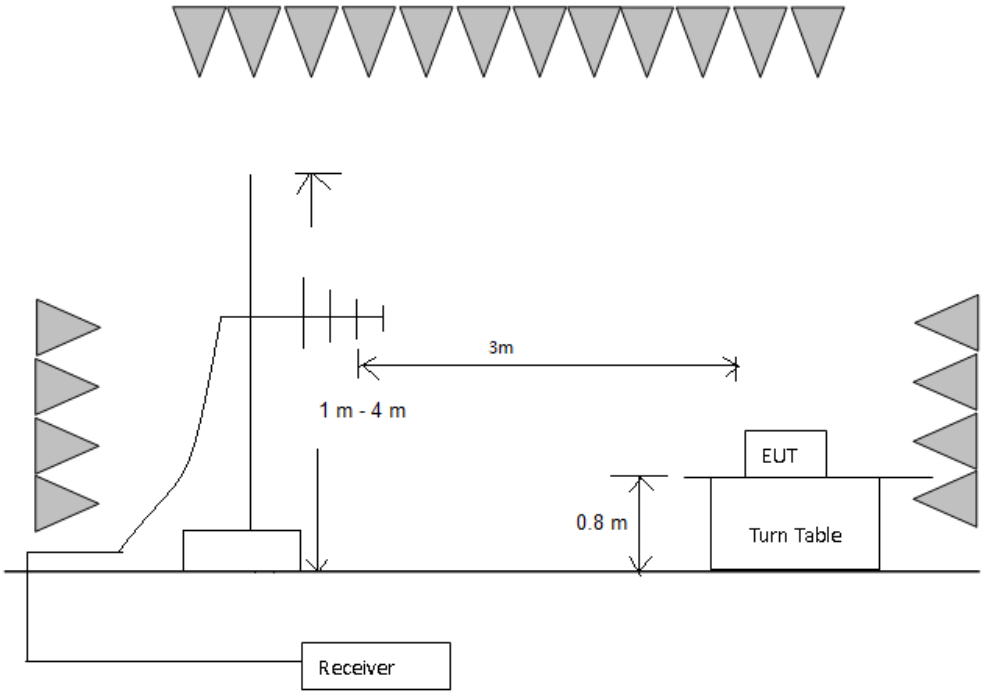
TEST REPORT

Test Configuration:

1) 9 kHz to 30 MHz emissions:

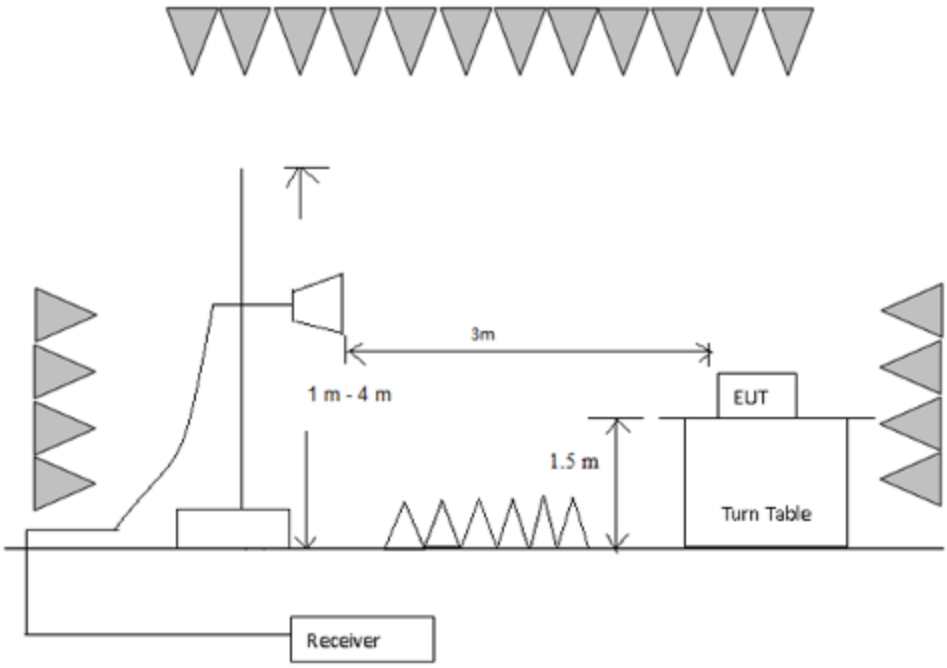


2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 40 GHz emissions:

TEST REPORT



Test Procedure:

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

Model: 1745020

802.11b mode with 1Mbps data rate

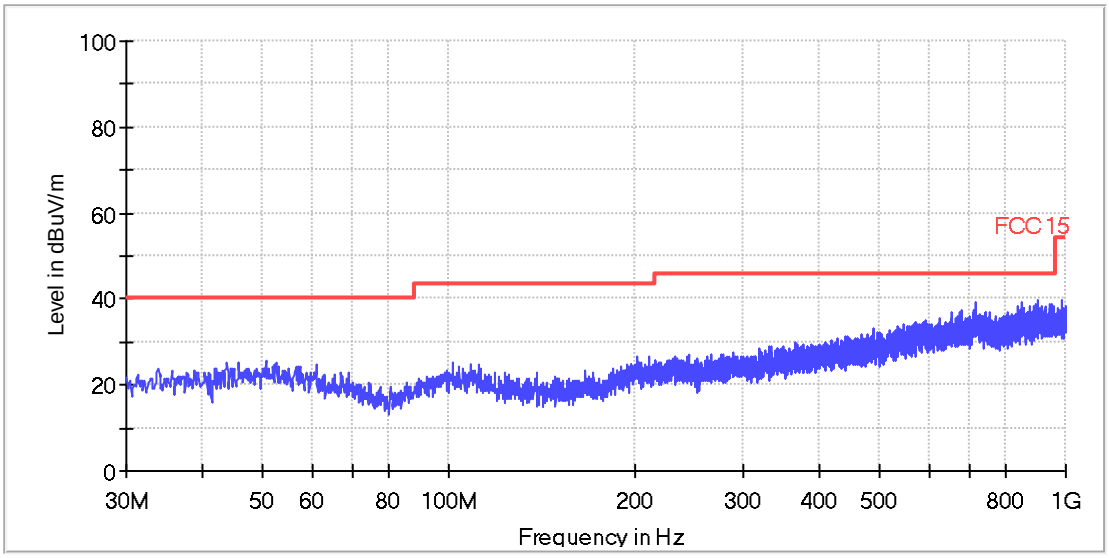
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

Test at Channel 1 (2.412 GHz) in transmitting status

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

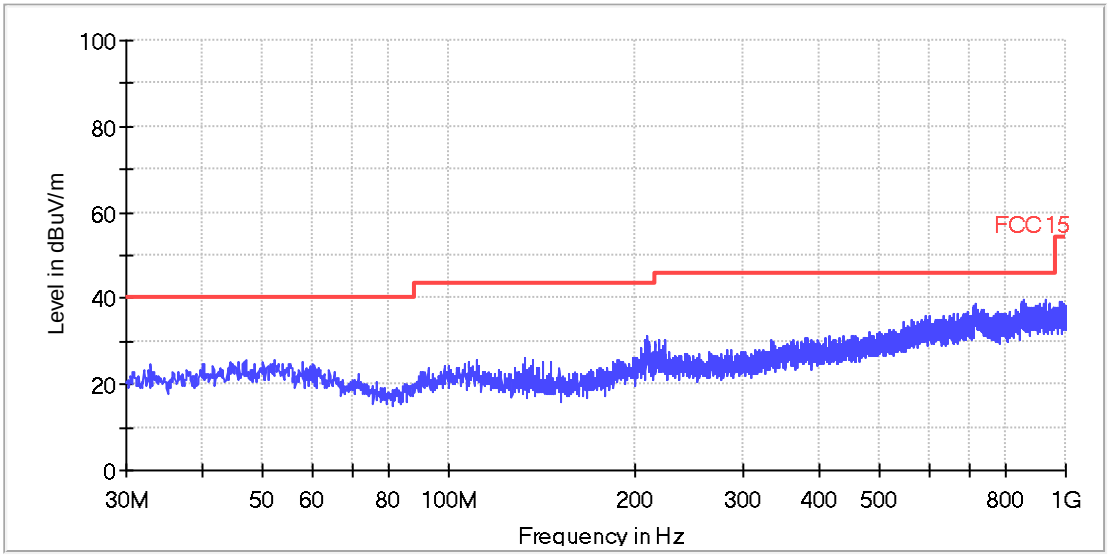
TEST REPORT

Vertical:



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

Horizontal:



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

TEST REPORT

1~25 GHz Radiated Emissions.

802.11b mode with 1Mbps data rate

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)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4832.5	50.9	-1.1	49.8	74	V
7235.5	46.9	2.3	49.2	74	V
4823.2	56.3	-1.1	55.2	74	H
7237.0	51.3	2.3	53.6	74	H

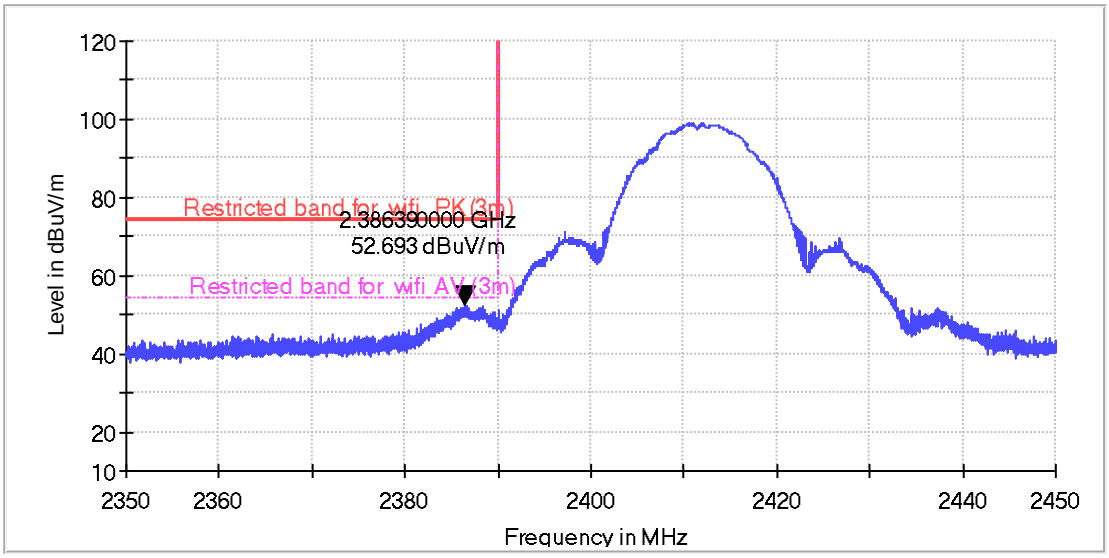
AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4832.5	--	-1.1	--	54	V
7235.5	--	2.3	--	54	V
4823.2	52.3	-1.1	51.2	54	H
7237.0	--	2.3	--	54	H

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

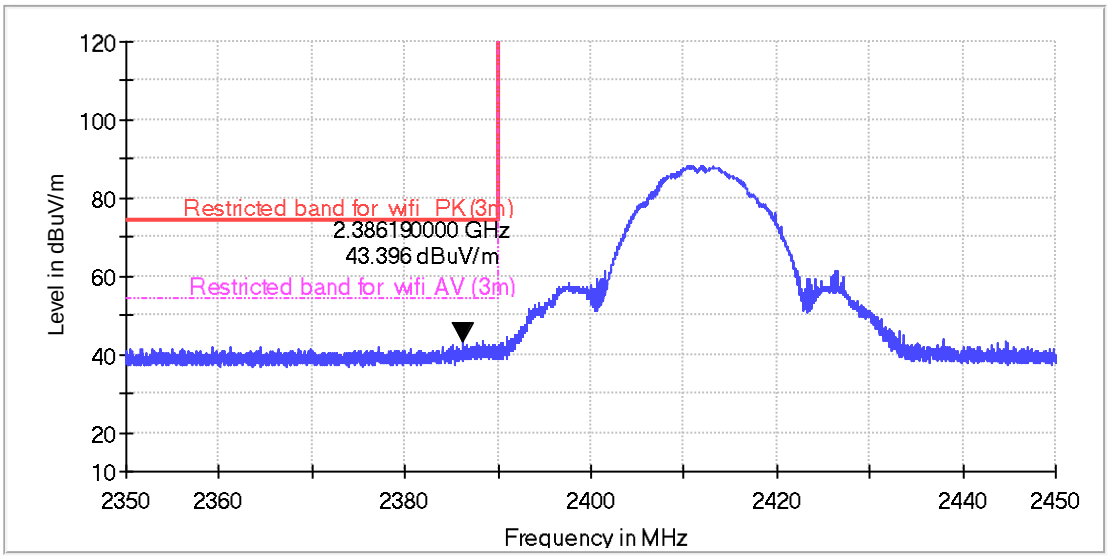
Restricted Bands Measurement

Horizontal



TEST REPORT

Vertical



Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
2386.2	51.6	-8.2	43.4	74	V
2386.4	60.9	-8.2	52.7	74	H

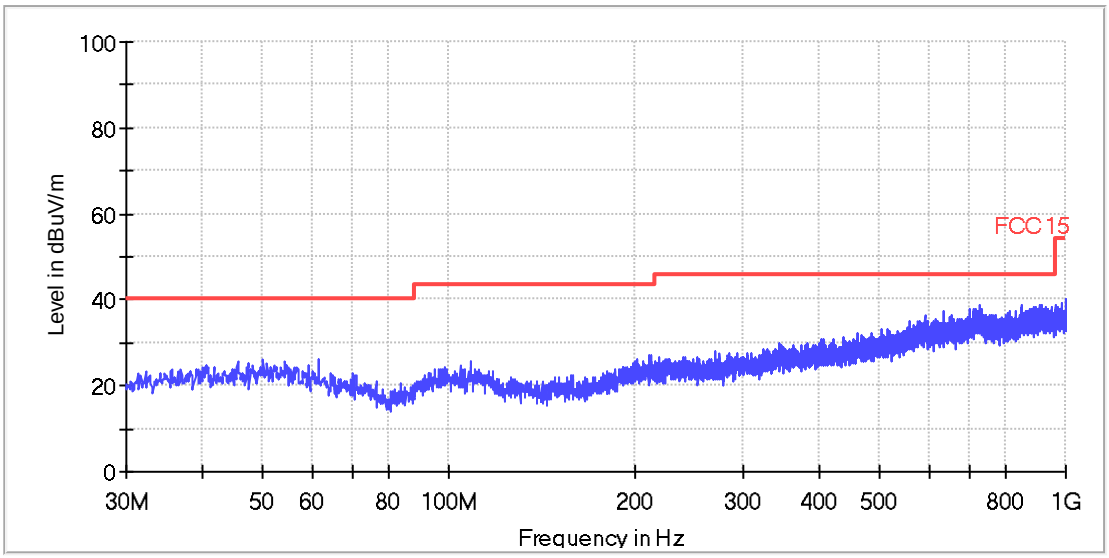
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
2386.2	--	-8.2	--	54	V
2386.4	--	-8.2	--	54	H

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

TEST REPORT

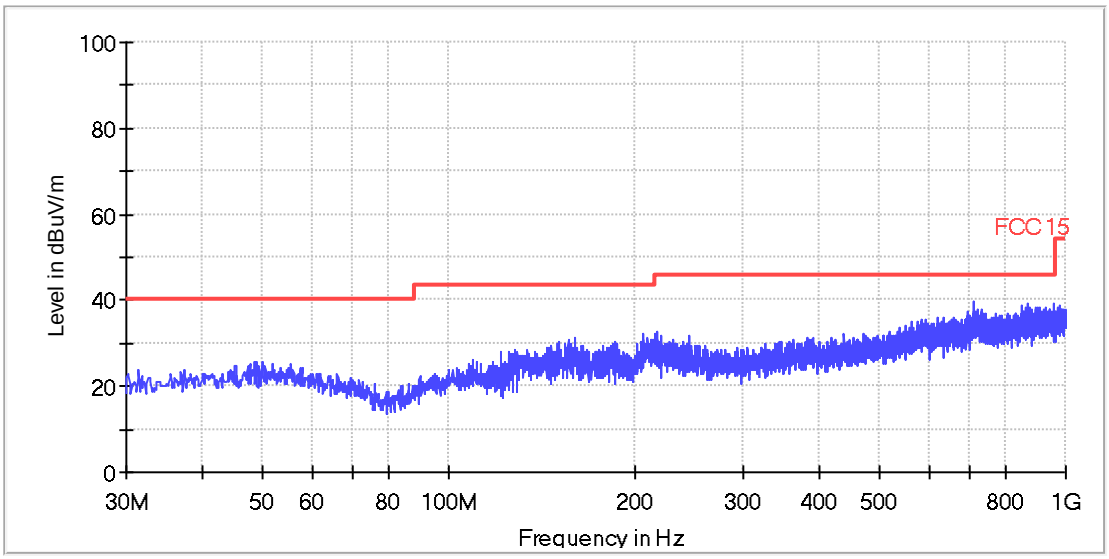
Test at Channel 1 (2.437 GHz) in transmitting status

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



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

Horizontal



TEST REPORT

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

1~25 GHz Radiated Emissions.

Test at Channel 1 (2.437 GHz) in transmitting status

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4874.5	50.7	-1.0	49.7	74	V
7312.0	46.8	2.4	49.2	74	V
4874.5	54.9	-1.0	53.9	74	H
7312.0	51.3	2.4	53.7	74	H

AV Measurement:

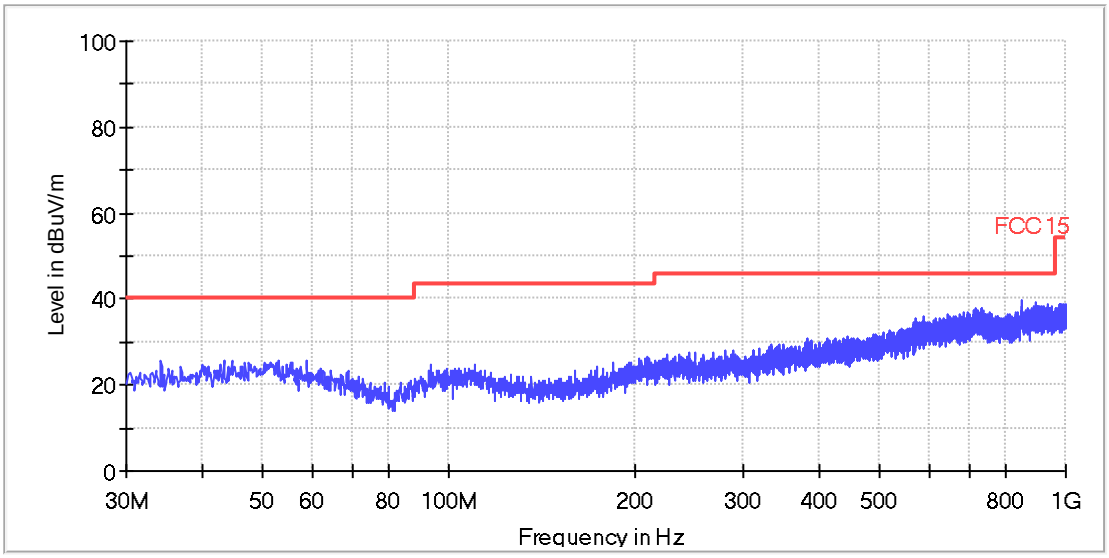
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4874.5	--	-1.0	--	54	V
7312.0	--	2.4	--	54	V
4874.5	--	-1.0	--	54	H
7312.0	--	2.4	--	54	H

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

Test at Channel 6 (2.462 GHz) in transmitting status
30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

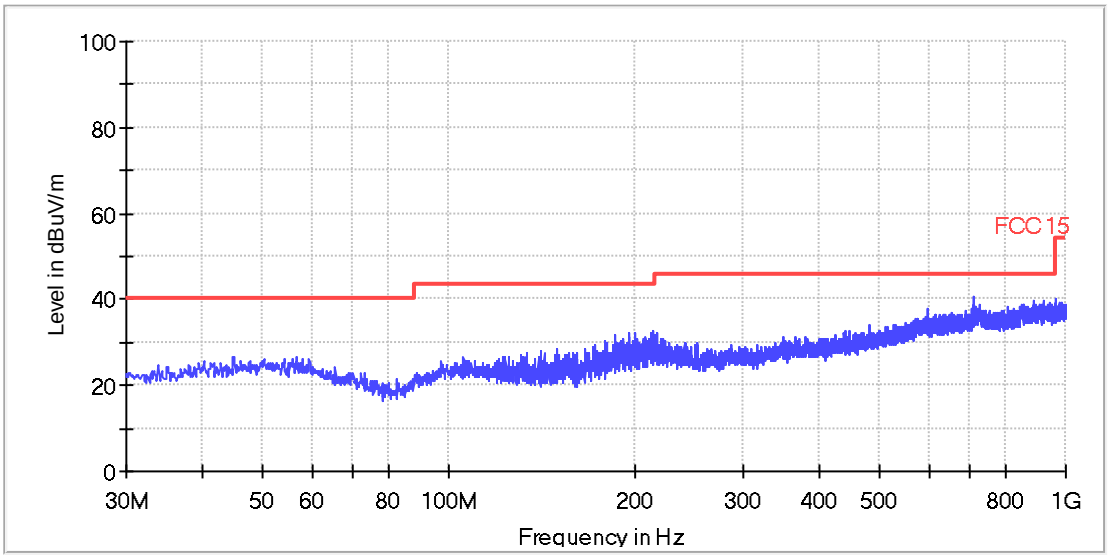
Vertical

TEST REPORT



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

Horizontal



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

1~25 GHz Radiated Emissions.

Test at Channel 11 (2.462 GHz) in transmitting status

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization

TEST REPORT

(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4924.0	48.9	-0.9	48.0	74	V
7385.5	47.0	2.5	49.5	74	V
4924.0	55.0	-0.9	54.1	74	H
7384.0	50.8	2.5	53.3	74	H

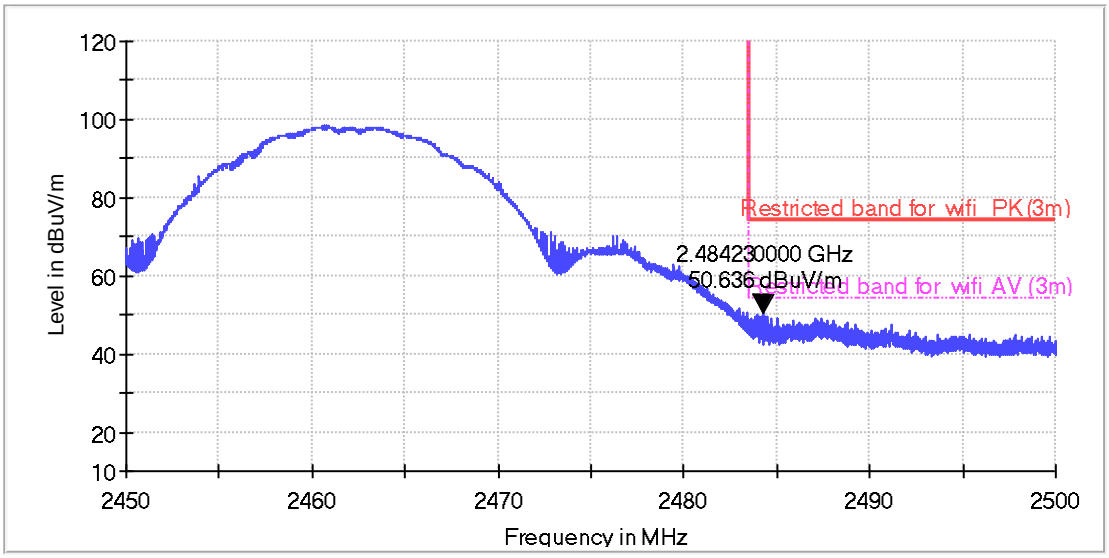
AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4924.0	--	-0.9	--	54	V
7385.5	--	2.5	--	54	V
4924.0	52.7	-0.9	51.8	54	H
7384.0	--	2.5	--	54	H

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

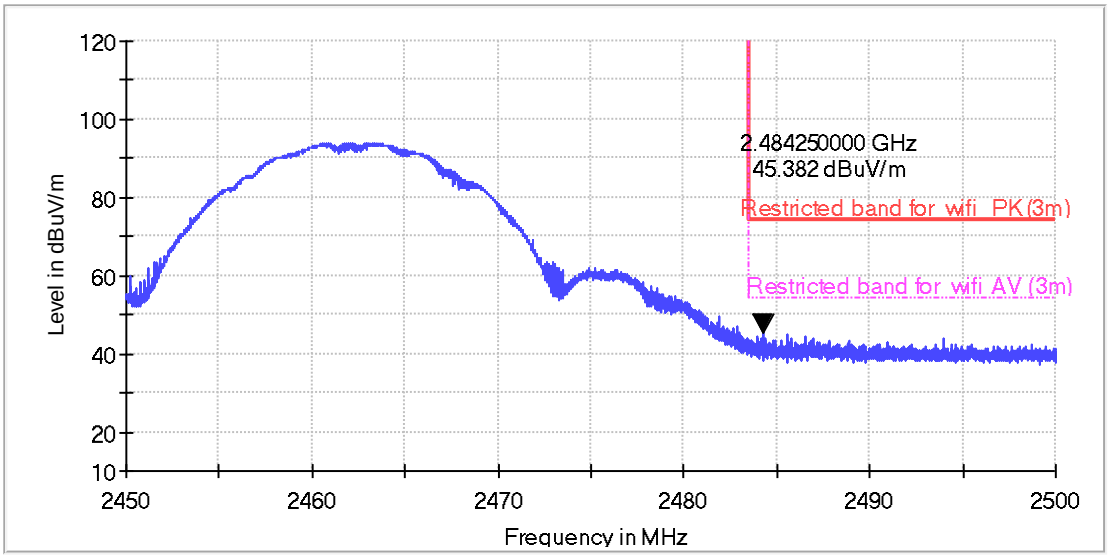
Restricted Bands Measurement

Horizontal



Vertical

TEST REPORT



Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
2484.3	53.2	-7.8	45.4	74	V
2484.2	58.4	-7.8	50.6	74	H

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
2484.3	--	-7.8	--	54	V
2484.2	--	-7.8	--	54	H

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

Test in WIFI, Bluetooth continuous transmission status

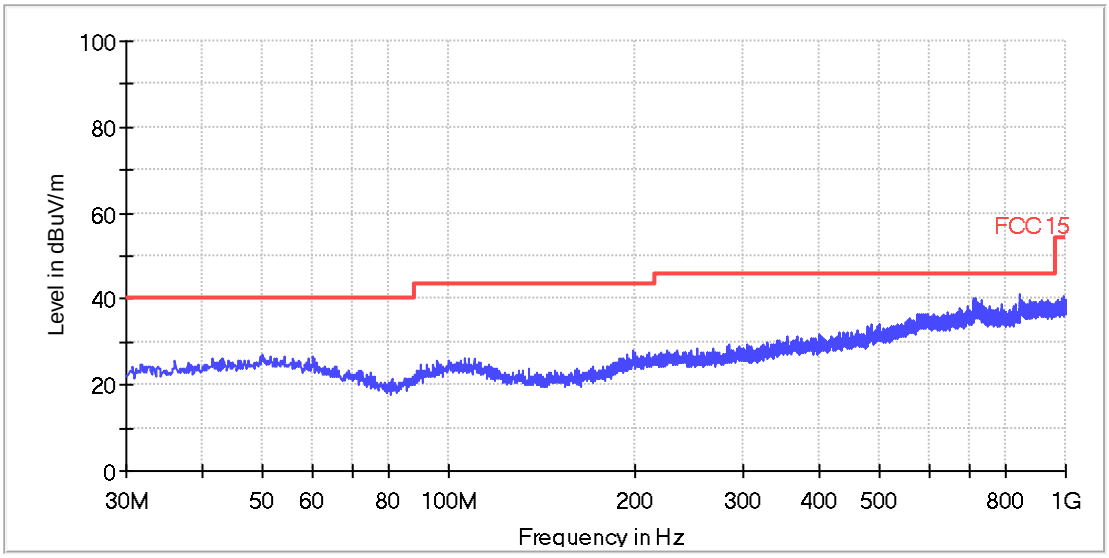
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

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

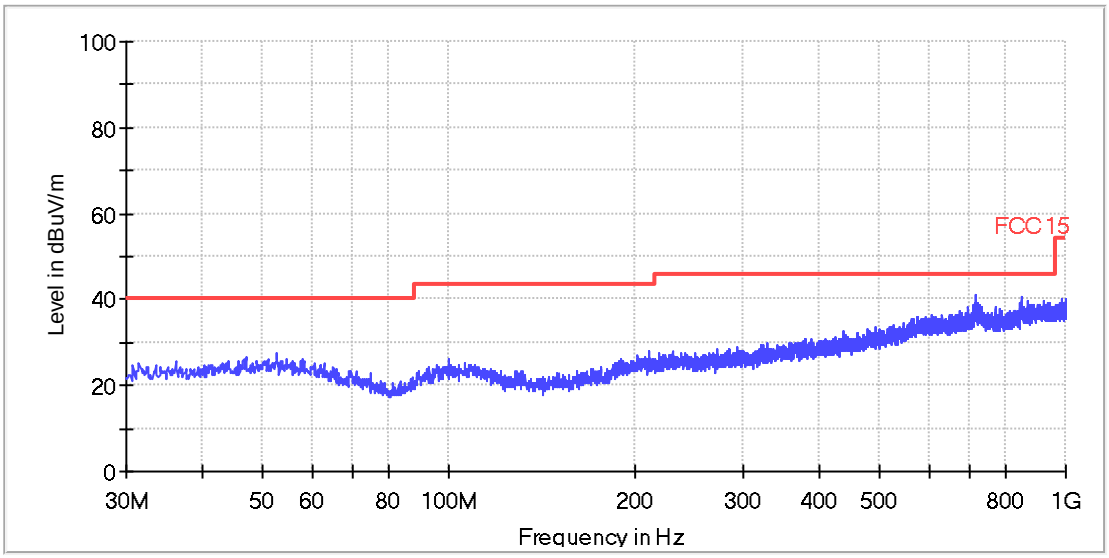
Vertical:

TEST REPORT



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

Horizontal



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

TEST REPORT

1~25 GHz Radiated Emissions.

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
4822.0	48.8	-1.1	47.7	74	V
7237.0	46.5	2.3	48.8	74	V
4823.5	51.6	-1.1	50.5	74	H
8717.5	41.8	4.5	46.3	74	H

AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
4822.0	-	-1.1	-	54	V
7237.0	-	2.3	-	54	V
4823.5	-	-1.1	-	54	H
8717.5	-	4.5	-	54	H

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

Model: 8730000

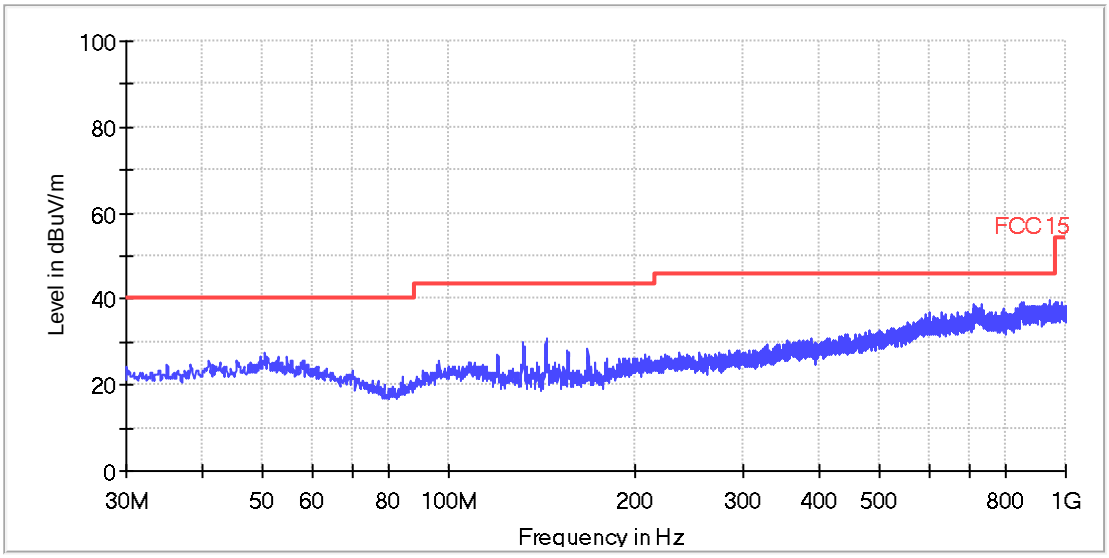
802.11b mode with 1Mbps data rate

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.

Test at Channel 1 (2.412 GHz) in transmitting status

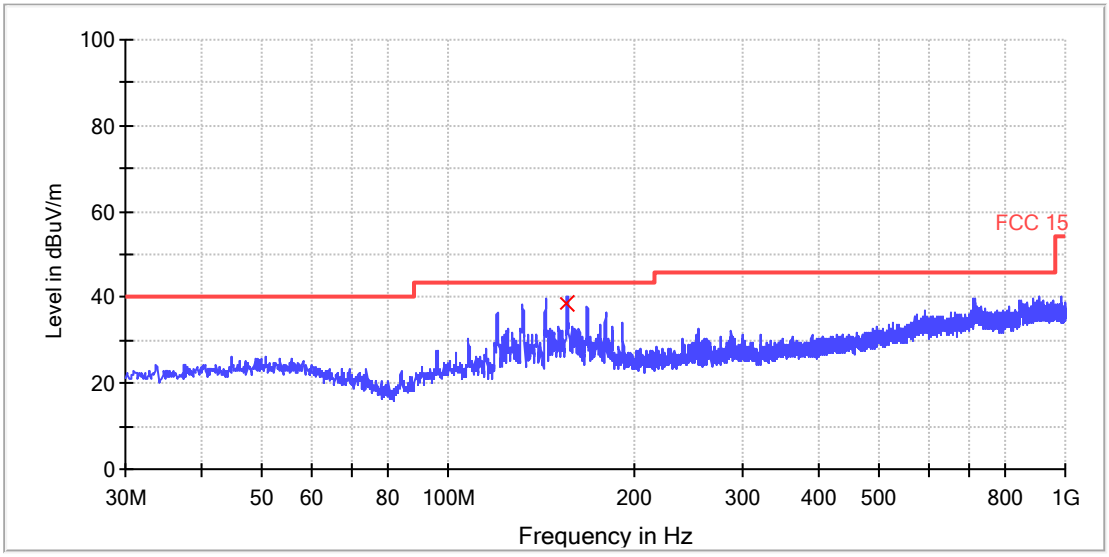
30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement
Vertical:

TEST REPORT



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

Horizontal:



QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
156.280000	38.1	120.000	H	15.6	5.4	43.5

Remark:
1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)

TEST REPORT

2. Quasi Peak (dBμV/m) = Corr. (dB) + Read Level (dBμV)
3. Margin (dB) = Limit QPK (dBμV/m) –Quasi Peak (dBμV/m)

1~25 GHz Radiated Emissions.

802.11b mode with 1Mbps data rate

Test at Channel 1 (2.412 GHz) in transmitting status

PK Measurement:

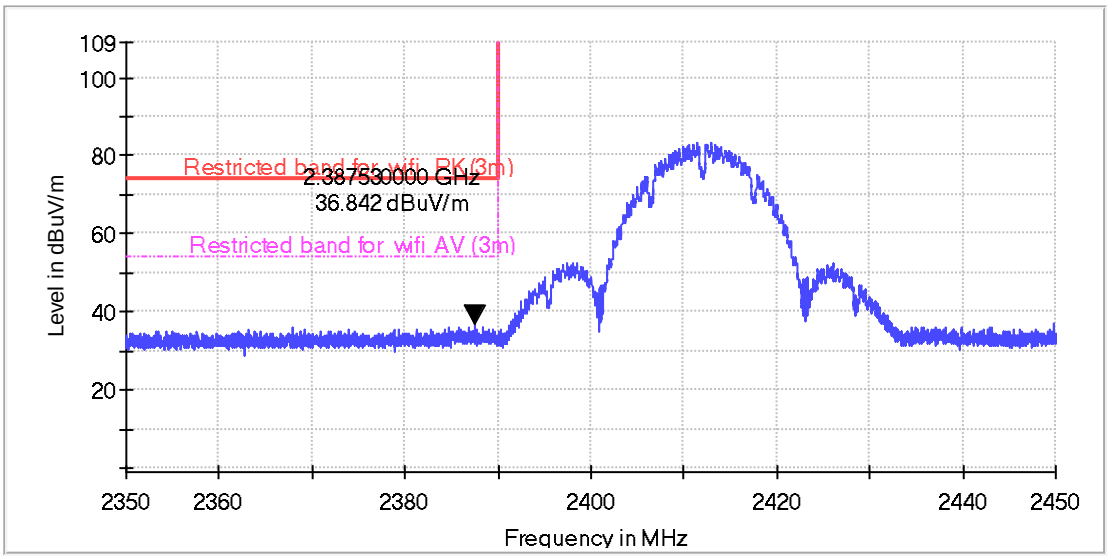
Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4823.5	48.4	-1.1	47.3	74	V
7237.0	52.4	2.3	54.7	74	V
2067.0	57.4	-9.4	48.0	74	H
7237.0	53.3	2.3	55.6	74	H

AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBμV/m)	(dBμV/m)	
4823.5	-	-1.1	-	54	V
7237.0	45.3	2.3	47.6	54	V
2067.0	-	-9.4	-	54	H
7237.0	47.3	2.3	49.6	54	H

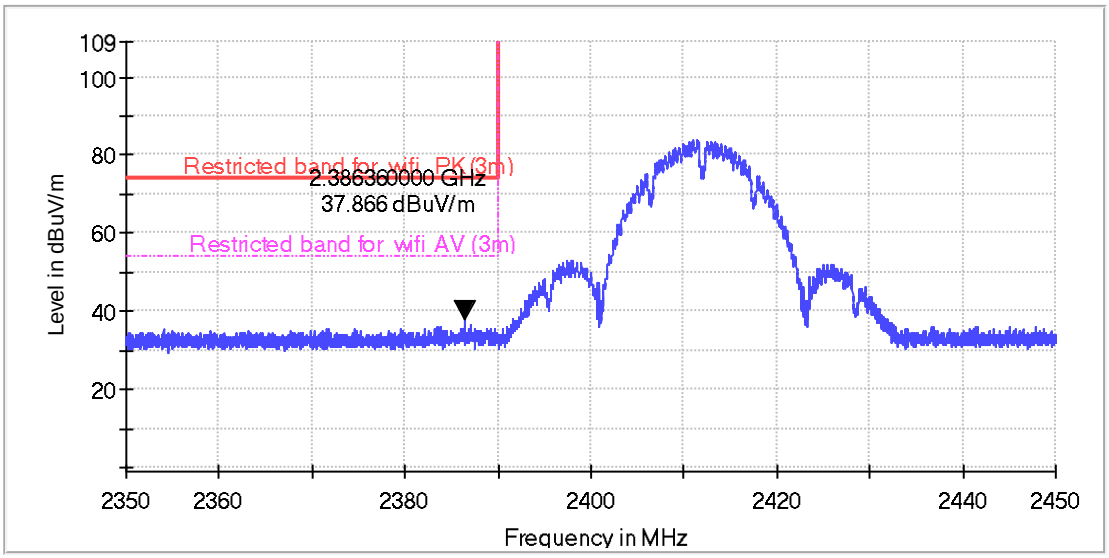
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.
Restricted Bands Measurement

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)	
2387.5	45.0	-8.2	36.8	74	H
2386.4	46.1	-8.2	37.9	74	V

AV Measurement:

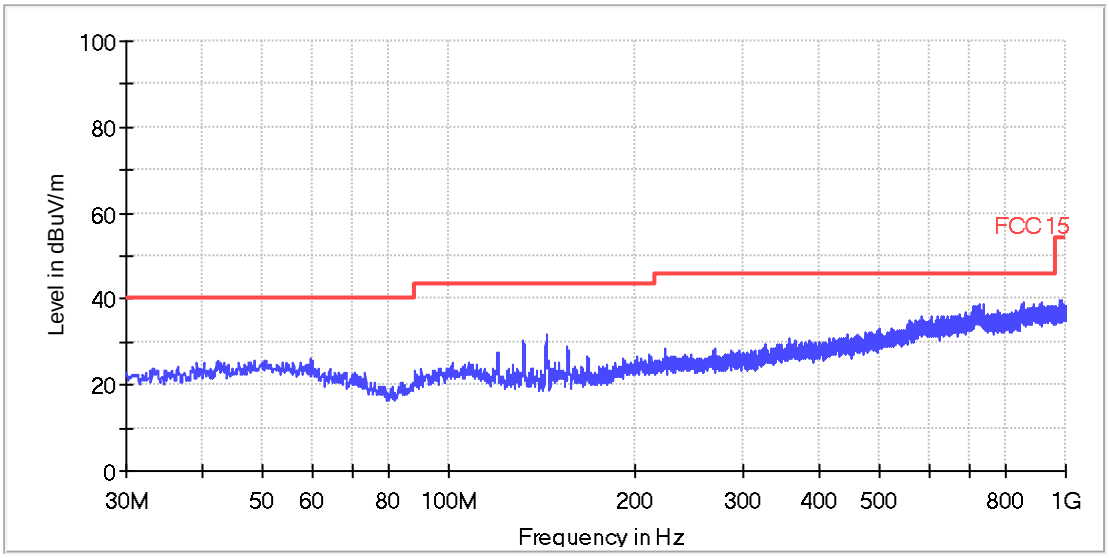
Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2387.5	-	-8.2	-	54	H
2386.4	-	-8.2	-	54	V

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

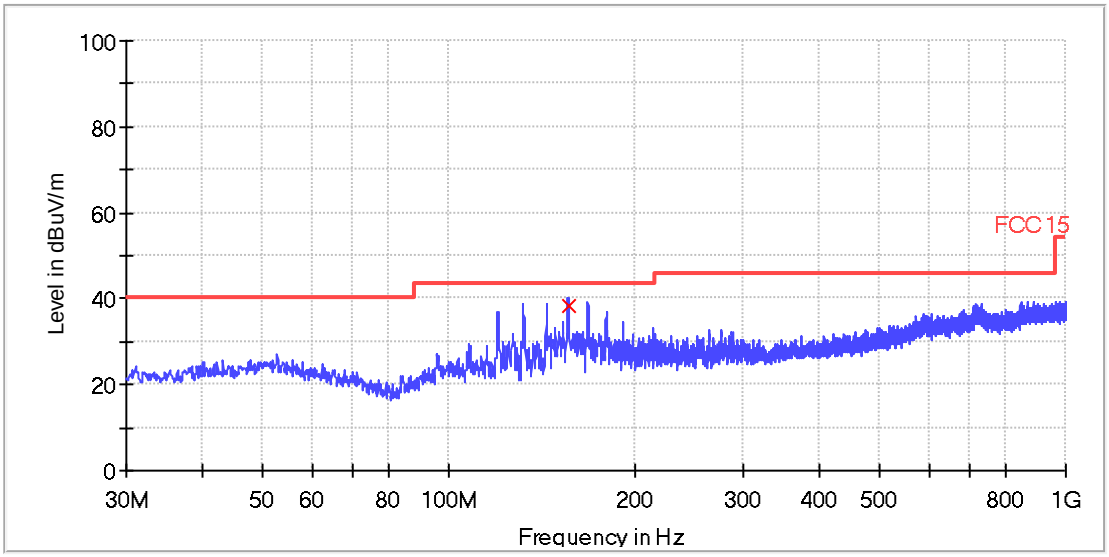
Vertical

TEST REPORT



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

Horizontal



QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
156.080000	38.3	120.000	H	15.6	5.3	43.5

Remark:
1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Quasi Peak (dBµV/m) = Corr. (dB) + Read Level (dBµV)
3. Margin (dB) = Limit QPK (dBµV/m) –Quasi Peak (dBµV/m)

TEST REPORT

1~25 GHz Radiated Emissions.

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2086.0	60.4	-9.3	51.1	74	V
7310.6	50.7	2.4	53.1	74	V
2087.5	57.6	-9.3	48.3	74	H
7310.5	51.6	2.4	54.0	74	H

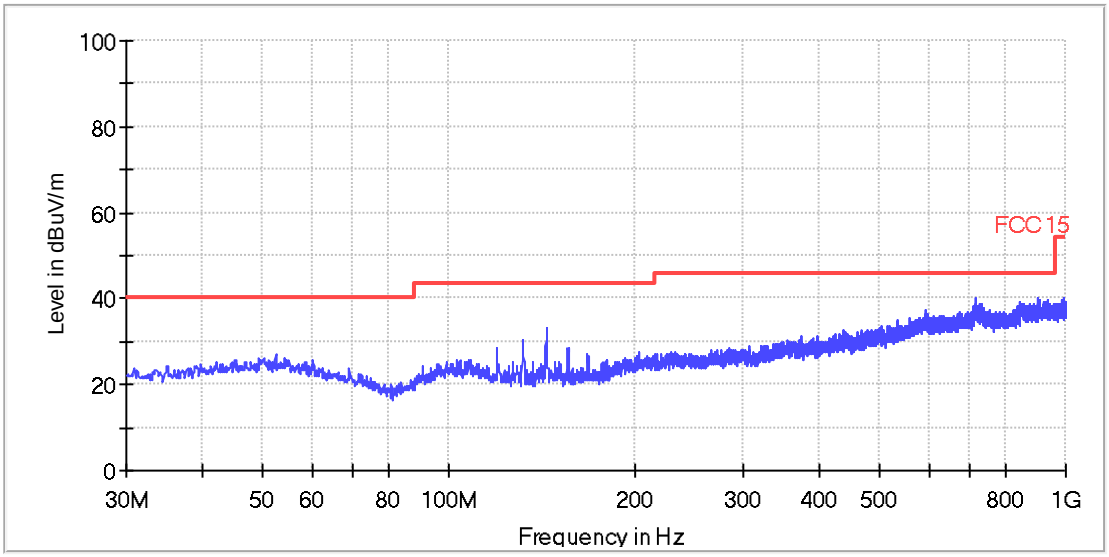
AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2086.0	-	-9.3	-	54	V
7310.6	-	2.4	-	54	V
2087.5	-	-9.3	-	54	H
7310.5	45.7	2.4	48.1	54	H

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

Test at Channel 11 (2.462 GHz) in transmitting status
30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

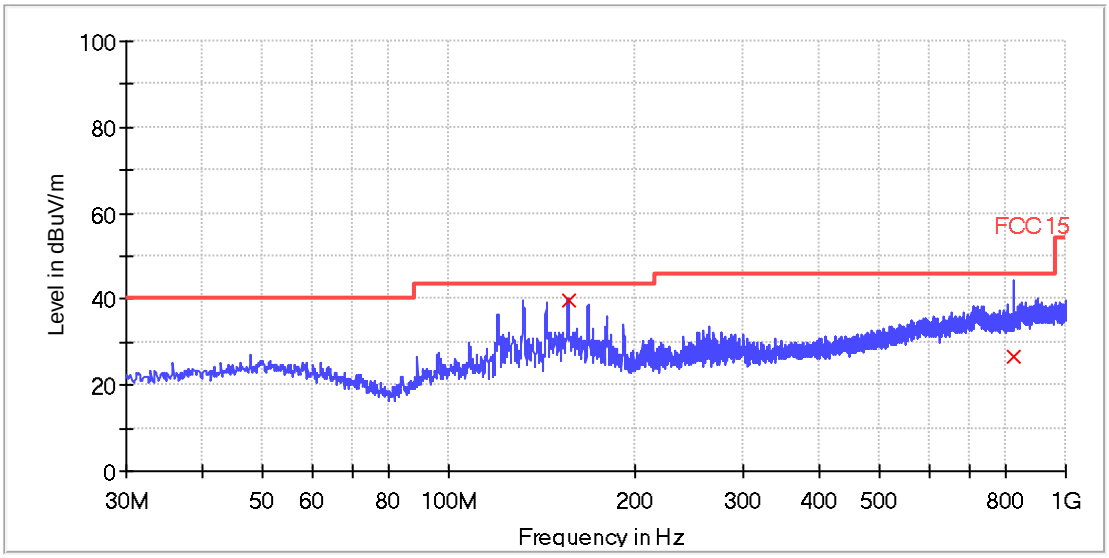
Vertical



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

Horizontal

TEST REPORT



QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
156.000000	39.5	120.000	H	15.6	4.0	43.5
824.800000	26.8	120.000	H	30.3	19.2	46.0

Remark:
1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Quasi Peak (dBµV/m) = Corr. (dB) + Read Level (dBµV)
3. Margin (dB) = Limit QPK (dBµV/m) –Quasi Peak (dBµV/m)

1~25 GHz Radiated Emissions.

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2108.5	60.3	-9.2	51.1	74	V
7385.5	48.9	2.5	51.4	74	V
2111.5	59.5	-9.2	50.3	74	H
7384.0	50.2	2.5	52.7	74	H

AV Measurement:

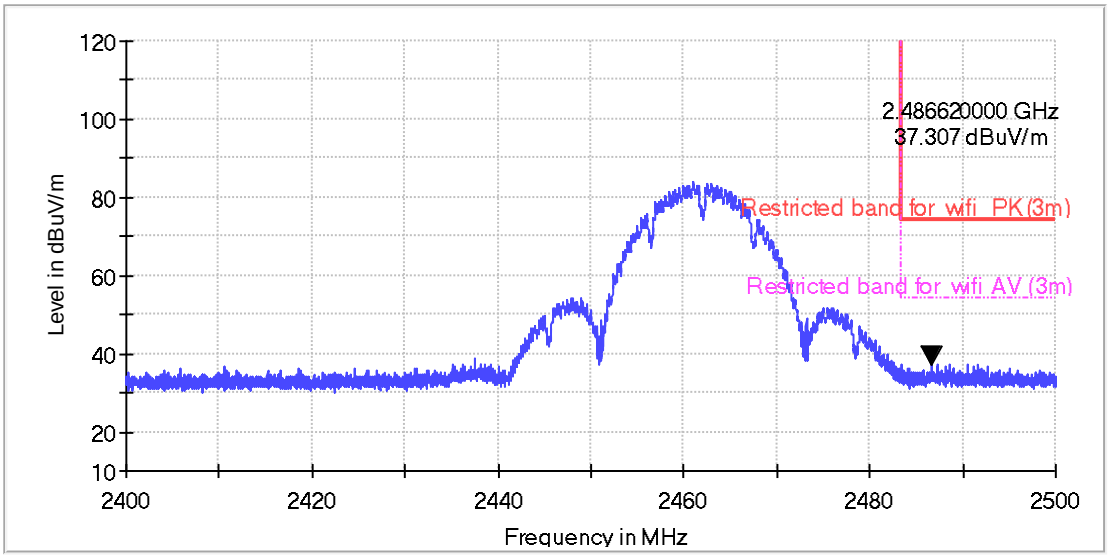
Frequency	AV Reading Level	Correction factors	AV Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2108.5	-	-9.2	-	54	V
7385.5	-	2.5	-	54	V
2111.5	-	-9.2	-	54	H
7384.0	-	2.5	-	54	H

TEST REPORT

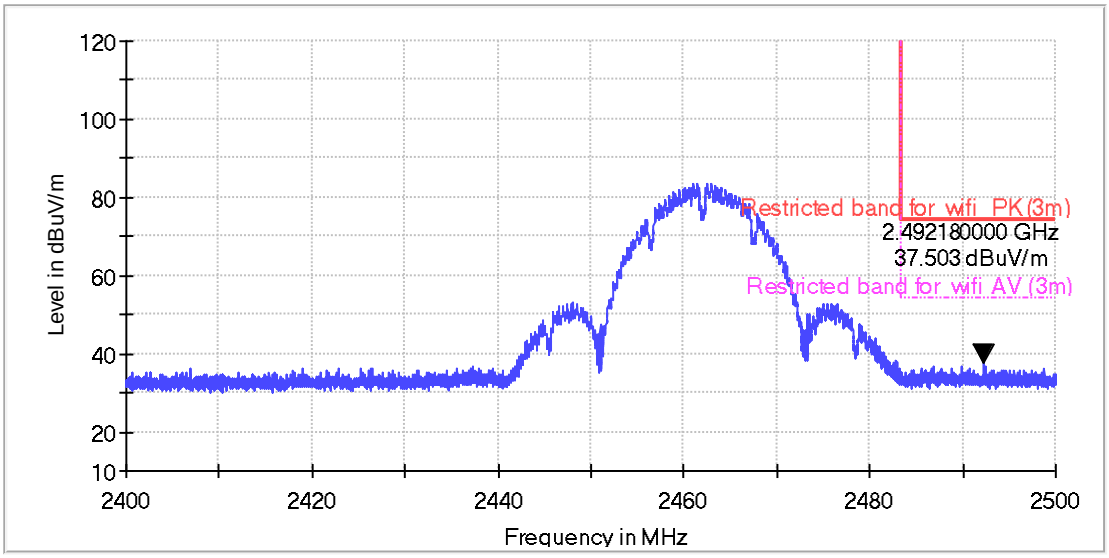
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

Restricted Bands Measurement

Horizontal



Vertical



TEST REPORT

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2486.6	45.1	-7.8	37.3	74	H
2492.1	45.3	-7.8	37.5	74	V

AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2486.6	-	-7.8	-	54	H
2492.1	-	-7.8	-	54	V

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

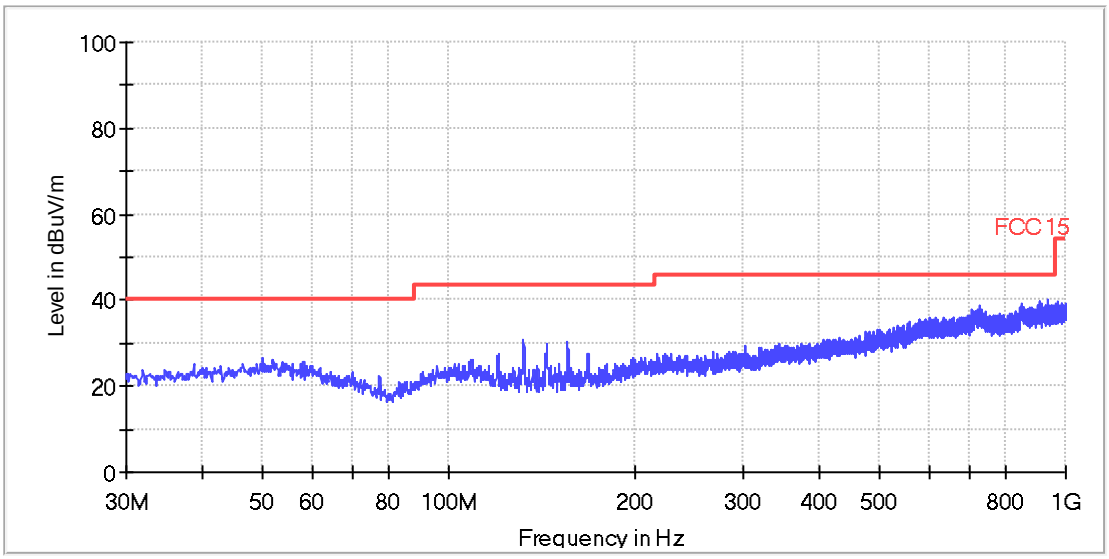
Test in WIFI, Bluetooth continuous transmission status

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

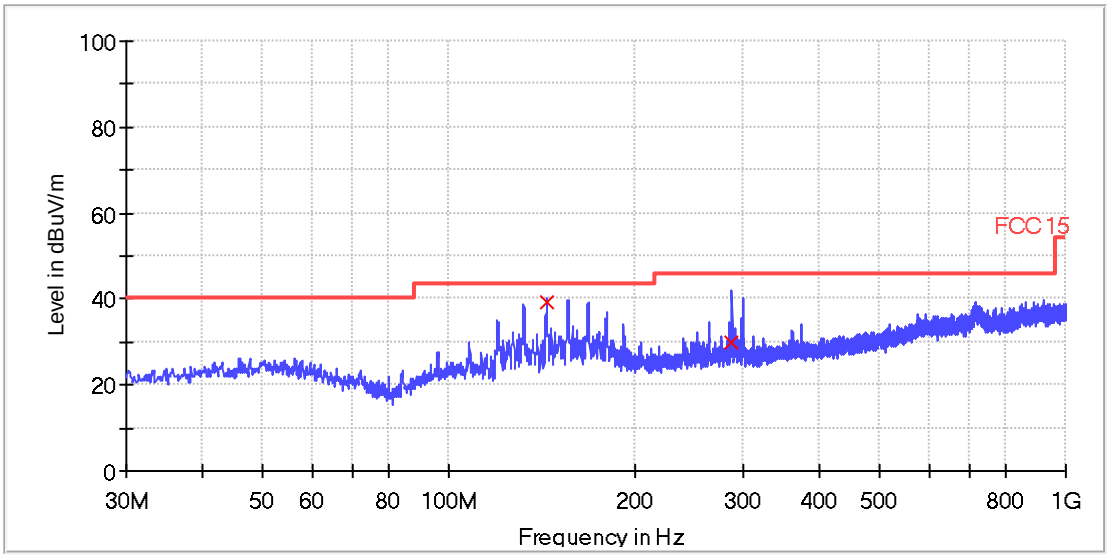
Vertical:



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

TEST REPORT

Horizontal



QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
143.960000	39.1	120.000	H	15.1	4.4	43.5
287.840000	29.8	120.000	H	20.9	16.2	46.0

Remark:
1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Quasi Peak (dBµV/m) = Corr. (dB) + Read Level (dBµV)
3. Margin (dB) = Limit QPK (dBµV/m) –Quasi Peak (dBµV/m)

1~25 GHz Radiated Emissions.

PK Measurement:

Frequency	PK Reading Level	Correction factors	PK Emission Level	PK Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2108.5	59.8	-9.2	50.6	74	V
9635.5	41.7	5.2	46.9	74	V
2108.5	58.9	-9.2	49.7	74	H
7385.5	49.2	2.5	51.7	74	H

AV Measurement:

Frequency	AV Reading Level	Correction factors	AV Emission Level	AV Limit	Antenna polarization
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	
2108.5	-	-9.2	-	54	V
9635.5	-	5.2	-	54	V

2108.5	-	-9.2	-	54	H
7385.5	-	2.5	-	54	H

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

4.8 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.

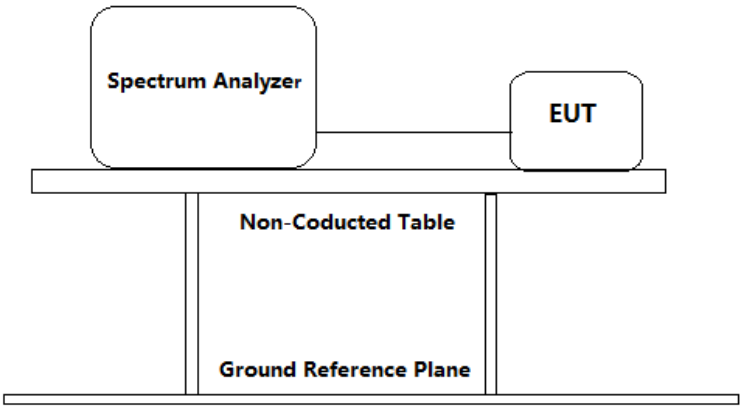
Frequency Band: 2400 MHz to 2483.5 MHz

Test Method: ANSI C63.10: Clause 11.11 and 11.13

RSS-Gen clause 6.13

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 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 from the antenna port to the spectrum analyzer.

   a) Set instrument center frequency to the frequency of the emission to be

TEST REPORT

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 ≥ [3 × 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:

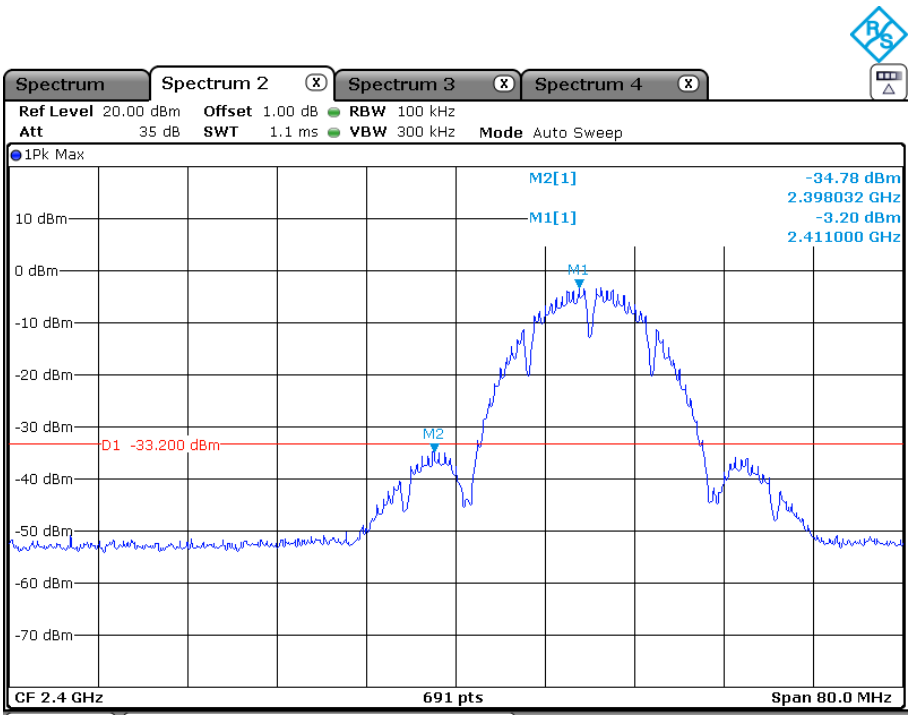
The band edges was measured and recorded Result:

The Lower Edges attenuated more than 30dB.

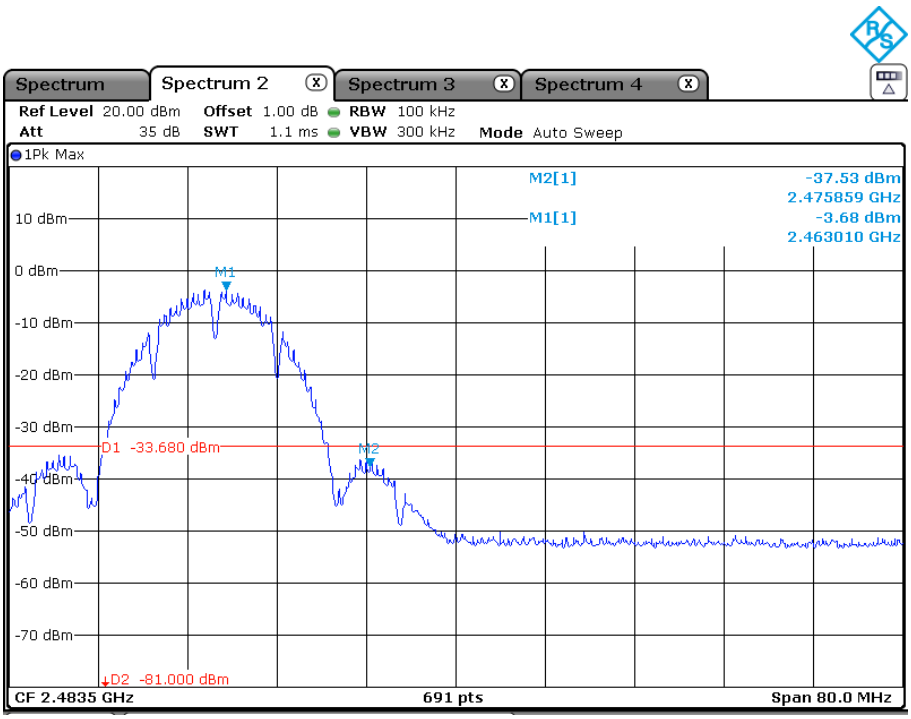
The Upper Edges attenuated more than 30dB.

Result plots as follows:
802.11b mode with 1 Mbps data rate
Channel1: 2.412 GHz

TEST REPORT



Channel 11: 2.462 GHz



4.9 Conducted Emission Test

Test result: N/A

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^3	ETS·LINDGREN	2024-04-10	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2024-11-15	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2024-11-12	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2024-07-02	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz）(RX)	VULB 9163	SCHWARZBECK	2024-12-05	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2024-07-02	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2024-04-22	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2024-04-22	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2024-04-10	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2024-04-10	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2024-04-22	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2024-07-19	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	2024-05-09	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2025-01-03	1Y
EM046-05	Power meter	NPR6A	R&S	2024-04-19	1Y
EM046-06	Power meter	NPR6A	R&S	2024-04-19	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A

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