



TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR25-SRF0230 Page(1) of (49)	
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1. Client

- Name : Crestron Electronics Inc.
- Address : 15 Volvo Drive, Rockleigh, NJ 07647, United States
- Date of Receipt : 2025-10-01

2. Use of Report : Certification

3. Name of Product / Model : Cevo Mini Handheld Touch Screen Remote / M202524001

4. Manufacturer / Country of Origin : Crestron Electronics Inc. / USA, Mexico

5. FCC ID : EROHRCVMINI

6. Date of Test : 2025-10-22 to 2025-12-22

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

8. Test method used : FCC Part 15 Subpart C, 15.247

9. Test Result : Refer to the test result in the test report

Affirmation	Tested by Name : Minki Kim (Signature)	Technical Manager Name : Euijung Kim (Signature)
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2025-12-23

Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2025-12-23	Originally issued	-

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General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

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1. General information

Client : Crestron Electronics Inc.
 Address : 15 Volvo Drive, Rockleigh, NJ 07647, United States
 Manufacturer : Crestron Electronics Inc.
 Address : 15 Volvo Drive, Rockleigh, NJ 07647, United States
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040
 ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : Cevo Mini Handheld Touch Screen Remote
 Model : M202524001
 Derivative Model : HR-CV-MINI
 Modulation technique : WIFI(802.11b/g/n) : DSSS, OFDM
 Number of channels : 13 ch (20 MHz)
 Power source : DC 5 V
 Antenna specification : Metal frame antenna
 Antenna gain : -5.10 dBi
 Frequency range : 2 412 MHz ~ 2 462 MHz (802.11b/g/n_HT20)
 Software version : 2.0.0
 Hardware version : 0.0004.00010
 Test device serial No. : Conducted : 2548RWA00845
 Radiated : 2544RWA00036
 Operation temperature : -10 °C ~ 50 °C

2.1. Information about derivative model

The difference between basic model and derivative models is:

The only difference is the model name; all models use the same radio hardware, including circuits and electrical components, and the same software.

Basic model	Variant model	Difference
M202524001	HR-CV-MINI	Marketing purpose

2.2. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power Source
Li-ion polymer battery	Shenzhen Honcell Energy CO., LTD	38.040 – HCP502946N	-	Normal voltage : 3.7 V Capacity : 770 mAh Charging voltage : 4.2 V Power : 2.85 Wh

2.3. Frequency/channel operations

This device contains the following capabilities:

WLAN 2.4 GHz_802.11b/g/n(HT20)

Ch.	Frequency (MHz)
01	2 412
⋮	⋮
06	2 437
⋮	⋮
11	2 462

Table 2.2-1. 802.11b/g/n_HT20 mode

2.4. RF power setting in TEST SW

Test Program	Test Mode	Frequency [MHz]	RF Power setting value
Rdiotool v1.0.3.19	802.11b	2 412	15.0
		2 437	15.0
		2 462	15.0
	802.11g	2 412	15.0
		2 437	15.0
		2 462	15.0
	802.11n_HT20	2 412	15.0
		2 437	15.0
		2 462	15.0

2.5. Duty Cycle Factor

Test mode	Period (ms)	T _{On} time (ms)	Duty cycle		Duty Cycle Factor (dB)
			(Linear)	(%)	
802.11b	11.843 6	11.388 4	0.961 6	96.16	0.17
802.11g	2.097 9	1.892 7	0.902 2	90.22	0.45
802.11n_HT20	1.897 2	1.764 9	0.930 3	93.03	0.31

Notes:

1. Duty cycle (Linear) = T_{On} time / Period
2. DCF(Duty cycle factor) = 10log(1/duty cycle)
3. DCF is not compensated to average result if the duty cycle is more than 98%



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3. Antenna requirement

Requirement of FCC part section 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- The transmitter has permanently attached Metal frame Antenna (External antenna) on board.
- The E.U.T Complies with the requirement of §15.203, §15.247.



4. Summary of tests

FCC Part section(s)	Parameter	Test Condition	Test results
15.247(b)(3)	Maximum peak output power	Conducted	Pass
15.247(e)	Peak power spectral density		Pass
15.247(a)(2)	6 dB channel bandwidth		Pass
15.207(a)	AC Conducted Emissions		Pass
15.247(d)	Conducted Spurious Emissions		Pass
15.205(a), 15.209(a)	Spurious emission	Radiated	Pass
	Band-edge, restricted band		Pass

Notes:

- All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
- EUT was investigated in three orthogonal orientations X, Y and Z. it was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation.
- The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.10-2020
 - KDB 558074 D01 v05r02
- The worst-case data rate were:
 - 802.11b mode : 1Mbps
 - 802.11g mode : 6Mbps
 - 802.11n_HT20 : MCS0

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty ($\pm$)	
Conducted RF Power	0.9 dB	
Conducted spurious emission	2.0 dB	
Radiated Emissions	Below 30 MHz	2.3 dB
	30 MHz to 1 000 MHz	2.6 dB
	1 000 MHz to 18 000 MHz	4.8 dB
	Above 18 000 MHz	4.8 dB
Conducted Emissions	150 kHz to 30 MHz	2.9 dB

6. Measurement results explanation example

The offset level is set in the spectrum analyzer to compensate the RF cable loss factor between EUT conducted output port and spectrum analyzer.

With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Frequency(MHz)	Factor(dB)	Frequency(MHz)	Factor(dB)
30	10.07	9 000	13.00
50	10.31	10 000	12.93
100	10.42	11 000	12.86
200	10.66	12 000	12.76
300	10.68	13 000	12.70
400	10.66	14 000	12.88
500	10.76	15 000	12.82
600	10.78	16 000	12.98
700	11.04	17 000	13.01
800	11.23	18 000	13.33
900	11.22	19 000	13.80
1 000	11.42	20 000	13.60
2 000	12.98	21 000	13.65
3 000	13.24	22 000	13.31
4 000	13.70	23 000	13.29
5 000	12.80	24 000	13.32
6 000	12.40	25 000	13.94
7 000	13.51	26 000	13.76
8 000	13.20	26 500	13.71

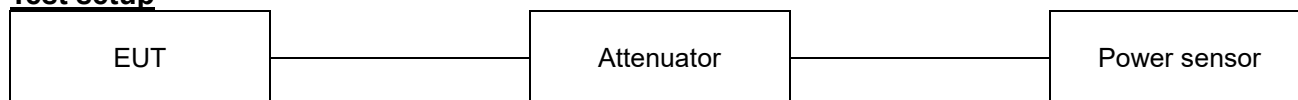
Note :

Offset(dB) = RF cable loss(dB) + Attenuator(dB)

7. Test results

7.1. Maximum peak output power

Test setup



Limit

According to §15.247(b)(3),

For systems using digital modulation in the 902-928 MHz, 2 400-2 483.5 MHz, and 5 725-5 850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

According to §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. 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 procedure

ANSI C63.10 - Section 11.9.1.2, 11.9.2.3.1

Test settings

General

Section 15.247 permits the maximum conducted (average) output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth (see ANSI C63.10 for measurement guidance).

When using a spectrum analyzer or EMI receiver to perform these measurements, it shall be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW to set a bin-to-bin spacing of $\leq \text{RBW}/2$ so that narrowband signals are not lost between frequency bins.

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level. The intent is to test at 100 % duty cycle; however a small reduction in duty cycle (to no lower than 98 %) is permitted, if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

If continuous transmission (or at least 98 % duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level, with the transmit duration as long as possible, and the duty cycle as high as possible during which sweep triggering/signal gating techniques may be used to perform the measurement over the transmission duration.

11.9.1. Maximum peak conducted output power

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

11.9.1.1. RBW $\geq$ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq [3 \times \text{RBW}]$.
- c) Set span $\geq [3 \times \text{RBW}]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

11.9.1.3. PKPM1 Peak power meter method

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

11.9.2.3.1. Measurement using a power meter (PM)

Method AVGPM is a measurement using an RF average power meter, as follows:

- a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in 11.6.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Adjust the measurement in dBm by adding $[10 \log(1/D)]$, where D is the duty cycle

Notes:

A peak responding power sensor is used, where the power sensor system video bandwidth is greater than the occupied bandwidth of the EUT.

Test results

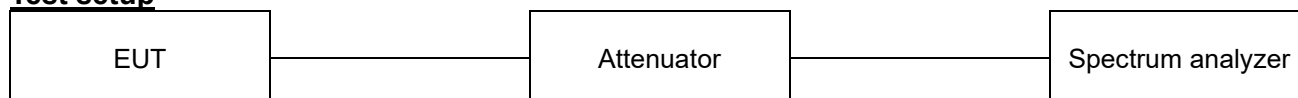
Test Results							
Test mode	Frequency (MHz)	Measured output power (dB m)					Limit (dBm)
		Reading (dB m)		DCF (dB)	Result (dB m)		
		Peak	Average		Peak	Average	
802.11b	2 412	17.05	14.59	0.17	17.05	14.76	30.00
	2 437	17.83	15.51		17.83	15.68	
	2 462	18.10	15.10		18.10	15.27	
802.11g	2 412	19.49	14.36	0.45	19.49	14.81	
	2 437	19.70	14.33		19.70	14.78	
	2 462	19.87	14.61		19.87	15.06	
802.11n HT20	2 412	19.22	13.18	0.31	19.22	13.49	
	2 437	19.08	13.00		19.08	13.31	
	2 462	19.02	12.96		19.02	13.27	

Notes:

1. Average result(dB m) = Average Reading (dB m) + DCF(dB)

7.2. Peak Power Spectral Density

Test setup



Limit

According to §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 procedure

ANSI C63.10 - Section 11.10.2

Test settings

Method PKPSD (peak PSD)

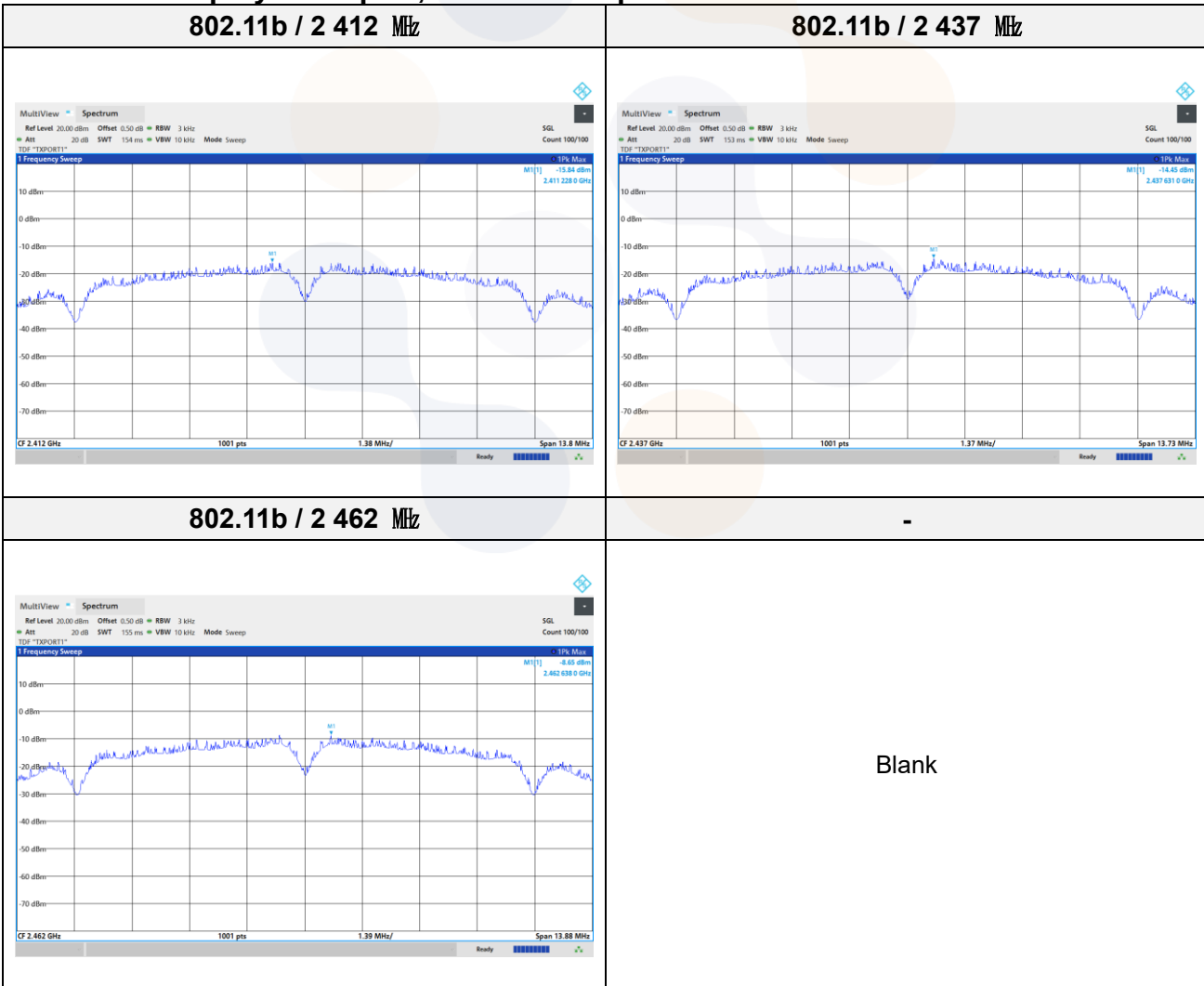
The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

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

Test results

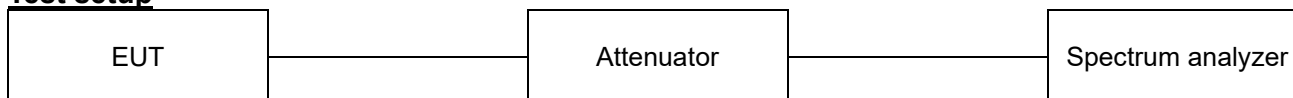
Test mode	Frequency (MHz)	Result (dBm/ 3 kHz)	Limit (dBm/ 3 kHz)
802.11b	2 412	-15.84	8.00
	2 437	-14.45	
	2 462	-8.65	
802.11g	2 412	-15.55	
	2 437	-10.40	
	2 462	-14.08	
802.11n_HT20	2 412	-15.06	
	2 437	-8.85	
	2 462	-14.34	

In order to simplify the report, the attached plot is the worst PSD in Test mode.



7.3. 6 dB Bandwidth(DTS Channel Bandwidth)

Test setup



Limit

According to §15.247(a)(2),

Systems using digital modulation techniques may operate in the 902–928 MHz, 2 400–2 483.5 MHz, and 5 725–5 850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

ANSI C63.10 - Section 11.8.2, 6.9.3

Test settings

DTS bandwidth

One of the following procedures may be used to determine the modulated DTS bandwidth.

Option 1

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = No faster than coupled (auto) time.
- 6) Allow the trace to stabilize.
- 7) 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.

Option 2

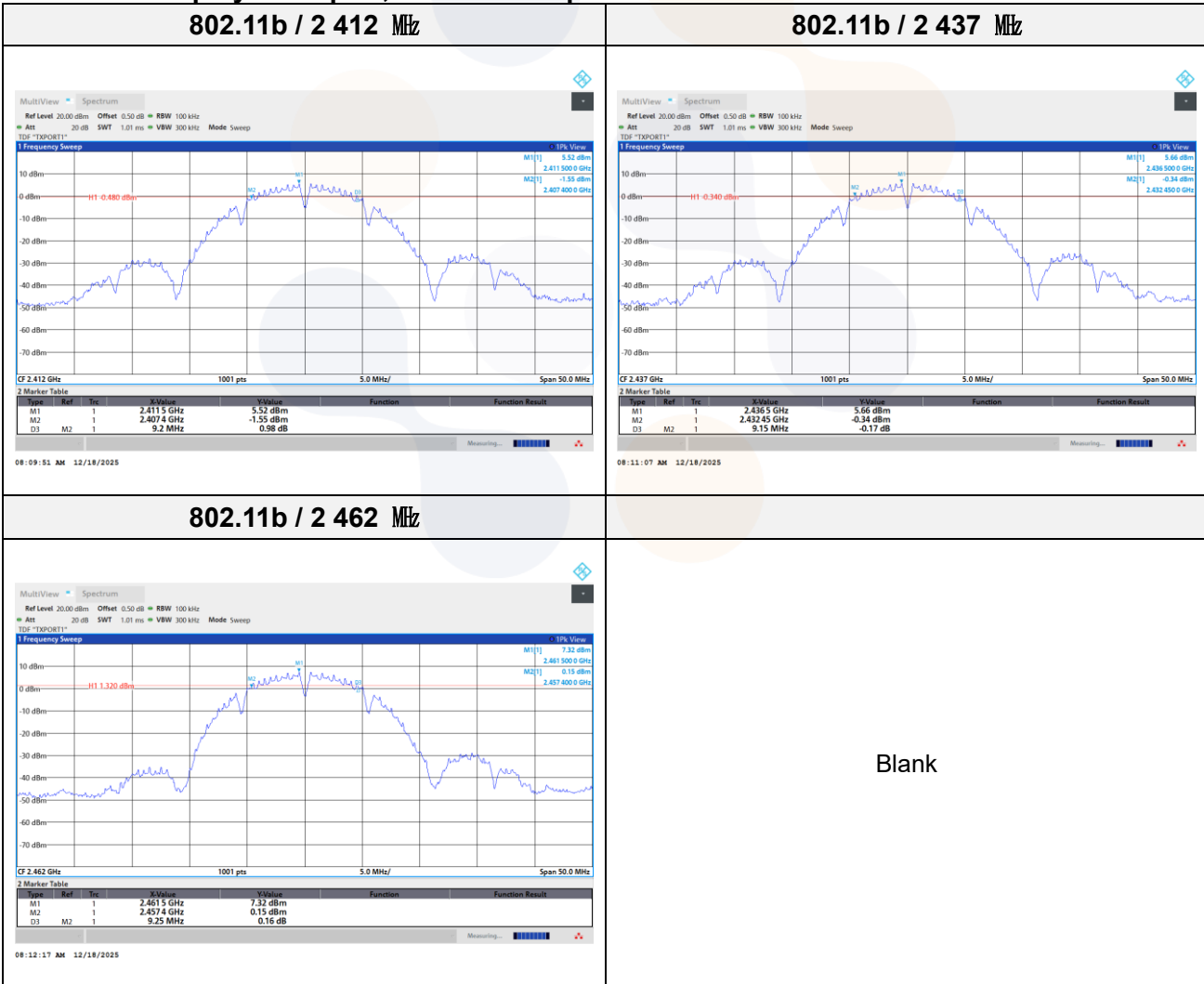
The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times$ RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

Notes: it may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

Test results

Test mode	Frequency(MHz)	6 dB Bandwidth(MHz)
802.11b	2 412	9.20
	2 437	9.15
	2 462	9.25
802.11g	2 412	15.25
	2 437	15.20
	2 462	15.25
802.11n_HT20	2 412	15.25
	2 437	15.25
	2 462	15.25

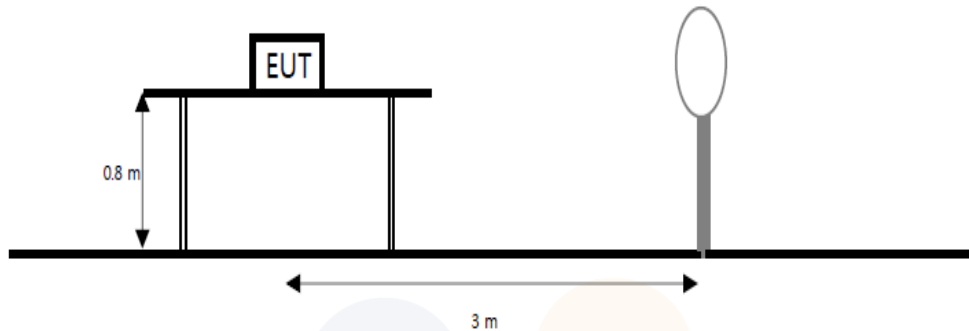
In order to simplify the report, the attached plot is the widest bandwidth ins Test mode.



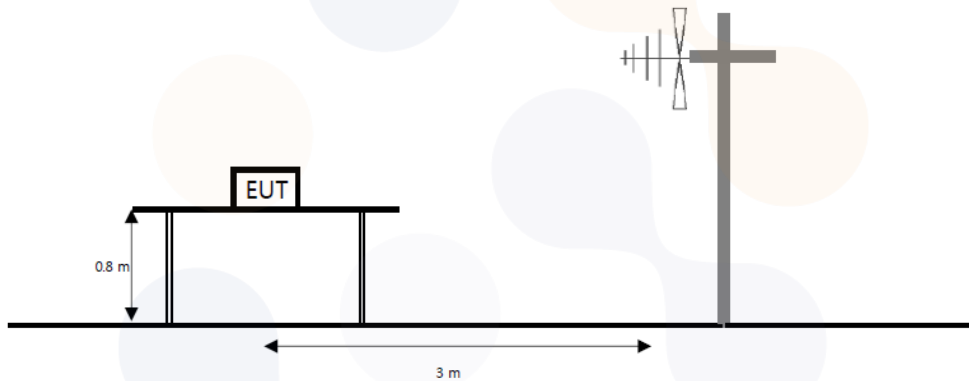
7.4. Spurious Emission, Band Edge and Restricted bands

Test setup

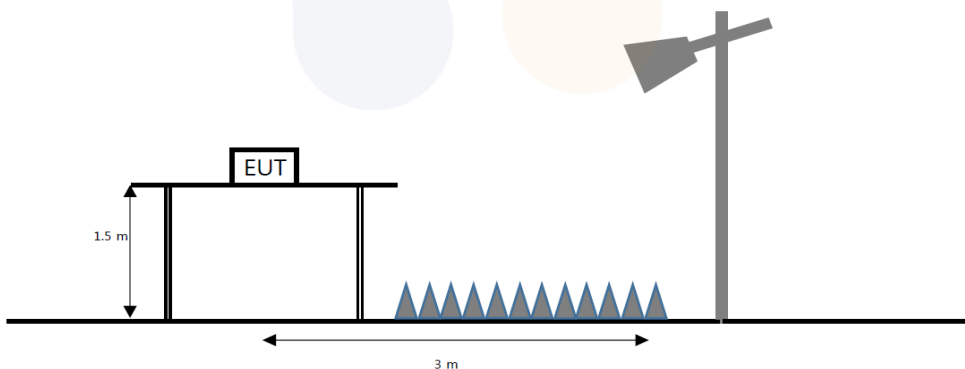
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz emissions, whichever is lower.



Limit

According to section 15.209(a),

except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength ($\mu V/m$)	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

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

According to section 15.205(a) and (b),

only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 - 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 - 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 - 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 - 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 - 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 - 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 - 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 - 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525	2 483.5 - 2 500	17.7 - 21.4
8.376 25 - 8.386 75	25	2 690 - 2 900	22.01 - 23.12
8.414 25 - 8.414 75	156.7 - 156.9	3 260 - 3 267	23.6 - 24.0
12.29 - 12.293	162.012 5 - 167.17	3 332 - 3 339	31.2 - 31.8
12.519 75 - 12.520 25	167.72 - 173.2	3 345.8 - 3 358	36.43 - 36.5
12.576 75 - 12.577 25	240 - 285	3 600 - 4 400	Above 38.6
13.36 - 13.41	322 - 335.4		

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in section 15.209. At frequencies equal to or less than 1 000 MHz, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 MHz, compliance with the emission limits in section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in section 15.35 apply to these measurements.

Test procedure

ANSI C63.10-2020 - Section 11.12.2.4, 11.12.2.5.1, 11.12.2.5.2.1

Test settings

Peak field strength measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in table
3. VBW $\geq$ (3 $\times$ RBW)
4. Detector = peak
5. Sweep time = No faster than coupled (auto) time
6. Trace mode = max hold
7. Allow sweeps to continue until the trace stabilizes

Table. RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1 000 MHz	100 kHz to 120 kHz
> 1 000 MHz	1 MHz

Average field strength measurements

Trace averaging with continuous EUT transmission at full power

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

1. RBW = 1 MHz (unless otherwise specified).
2. VBW $\geq$ (3 $\times$ RBW).
3. Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
4. Averaging type = power (i.e., rms):
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.

Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less than $\pm 2\%$), then the following procedure shall be used:

1. The EUT shall be configured to operate at the maximum achievable duty cycle.
2. Measure the duty cycle D of the transmitter output signal as described in 11.6.
3. RBW = 1 MHz (unless otherwise specified).
4. VBW $\geq [3 \times \text{RBW}]$.
5. Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR25-SRF0230 Page (22) of (49)	
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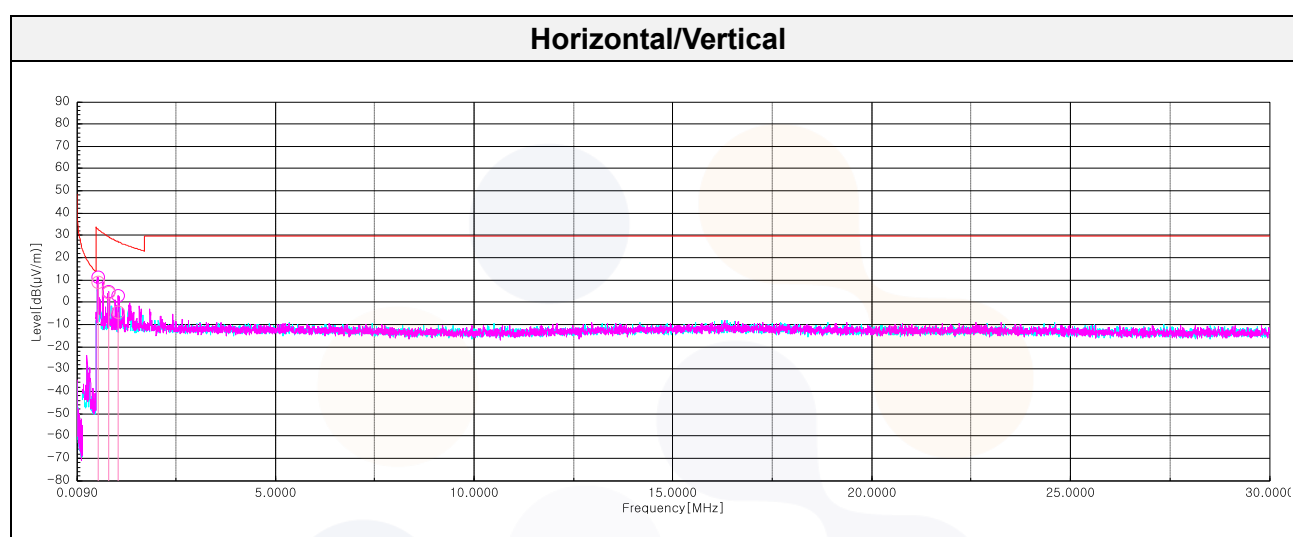
6. Averaging type = power (i.e., rms):
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
7. Sweep time = auto.
8. Perform a trace average of at least 100 traces.
9. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is $[10 \log (1 / D)]$, where D is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1 / D)]$, where D is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Notes:

1. $f < 30$ MHz, extrapolation factor of 40 dB/decade of distance. $F_d = 40 \log(D_m/D_s)$
 $f \geq 30$ MHz, extrapolation factor of 20 dB/decade of distance. $F_d = 20 \log(D_m/D_s)$
Where:
 F_d = Distance factor in dB
 D_m = Measurement distance in meters
 D_s = Specification distance in meters
2. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or F_d (dB)
3. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
4. Average test would be performed if the peak result were greater than the average limit.
5. ¹⁾ means restricted band.
6. Above 1 GHz the worst results between two antenna polarizations (H and V) were documented in the test report.
7. Below 30 MHz frequency range, In order to search for the worst result, all orientations about parallel, perpendicular, and ground-parallel were investigated then reported. when the emission level was higher than 20 dB of the limit, then the following statement shall be made: "No spurious emissions were detected within 20 dB of the limit."
8. The contribution from non-harmonic components was calculated separately using the duty cycle and applied accordingly.

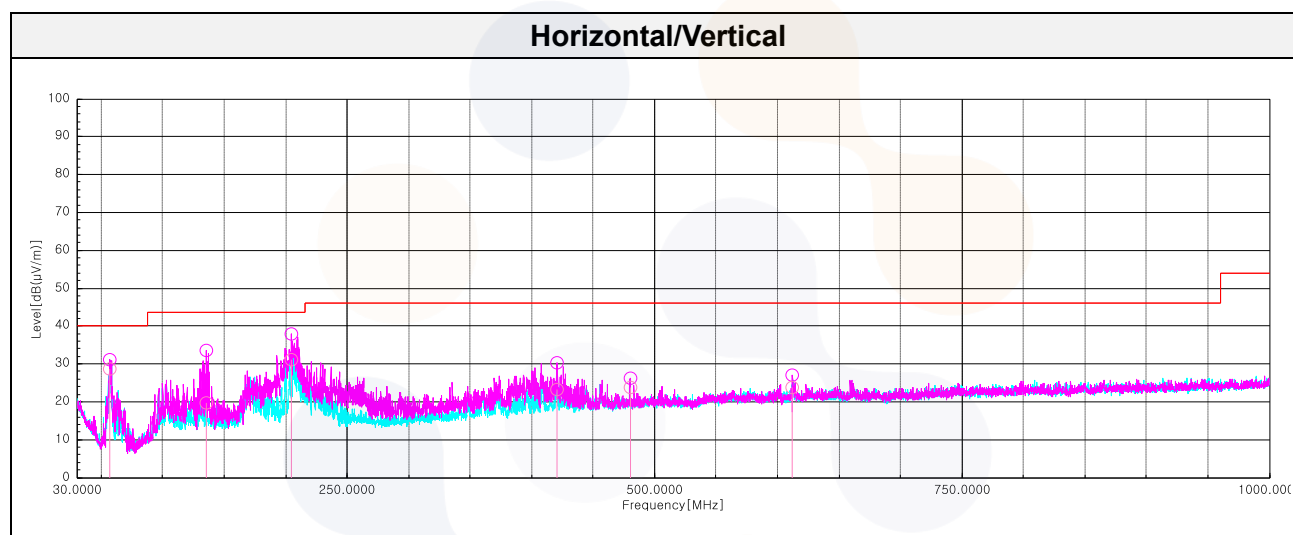
Test results (Below 30 MHz) – Worst case: 802.11g / 2 462 MHz

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data								
0.54	H	61.50	20.21	-32.69	40.00	9.02	32.95	23.93
0.80	H	56.90	20.26	-32.67	40.00	4.49	29.54	25.05
1.06	H	48.00	20.30	-32.65	40.00	-4.35	27.10	31.45



Test results (Below 1 000 MHz) – Worst case: 802.11g / 2 462 MHz

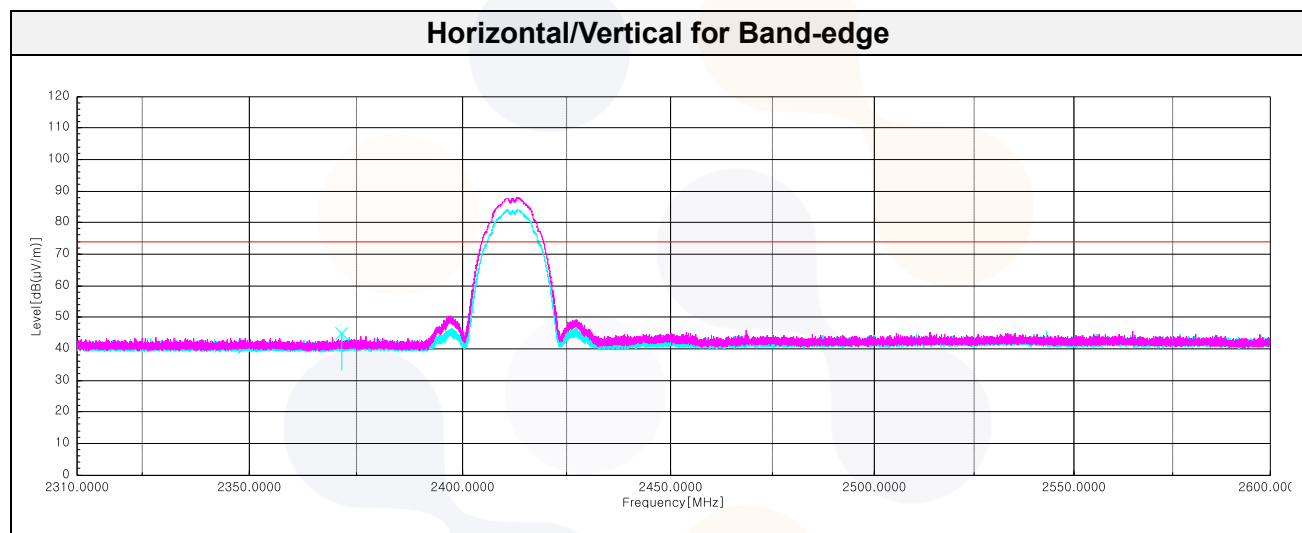
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data								
56.92	H	48.50	12.31	-32.19	-	28.62	40.00	11.38
135.73 ¹⁾	H	33.30	17.70	-31.37	-	19.63	43.52	23.89
204.48	H	46.90	15.30	-31.08	-	31.12	43.52	12.40
420.30	H	31.10	22.70	-30.71	-	23.09	46.02	22.93
480.08	H	31.30	23.10	-30.58	-	23.82	46.02	22.20
612.24 ¹⁾	H	29.20	24.70	-30.20	-	23.70	46.02	22.32



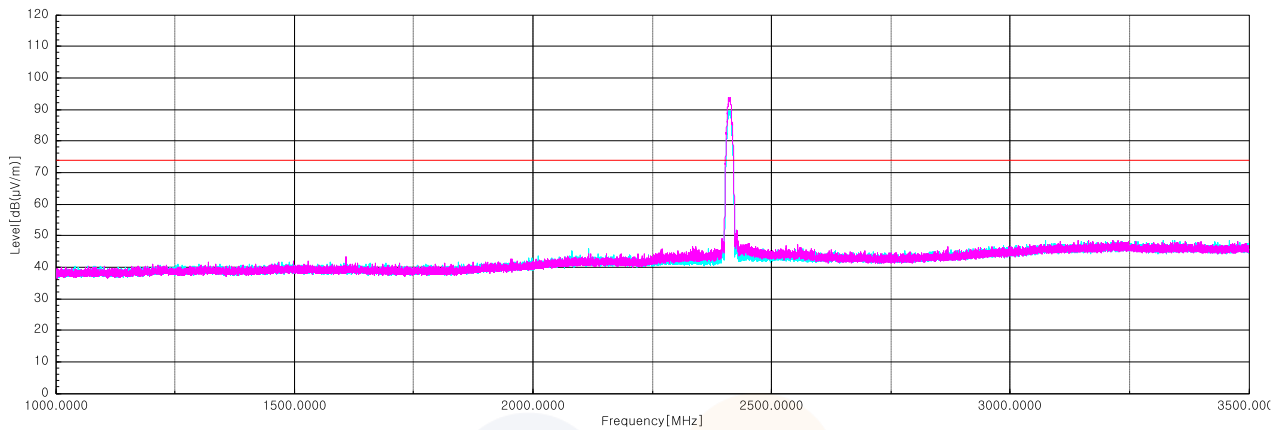
Test results (Above 1 000 MHz)

802.11b_2 412 MHz

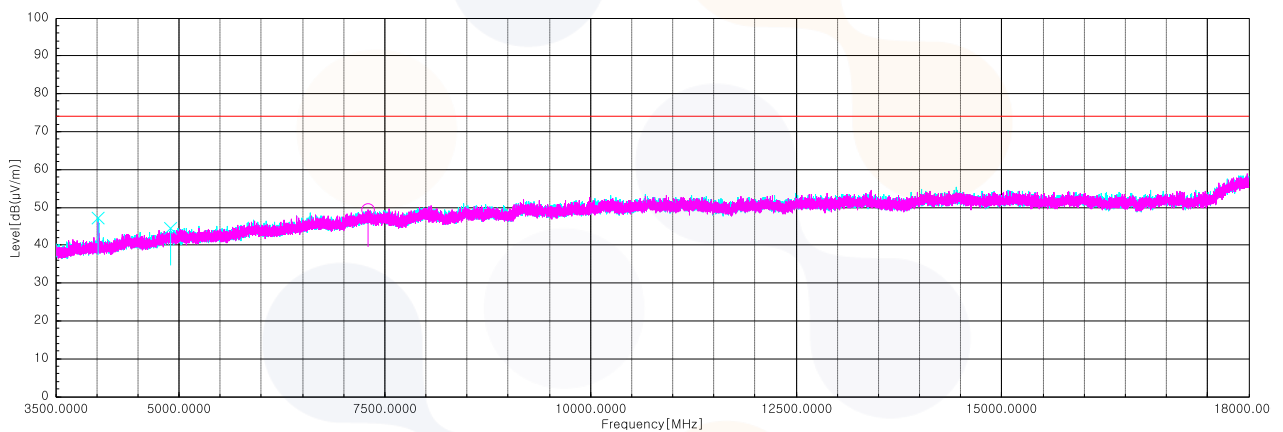
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 371.45 ¹⁾	V	47.60	27.01	-29.95	-	44.66	74.00	29.34
4 020.07 ¹⁾	V	59.90	30.70	-43.43	-	47.17	74.00	26.83
4 891.52 ¹⁾	V	53.40	32.75	-41.61	-	44.54	74.00	29.46
7 297.55 ¹⁾	H	51.70	36.70	-38.93	-	49.47	74.00	24.53
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 3.5 GHz

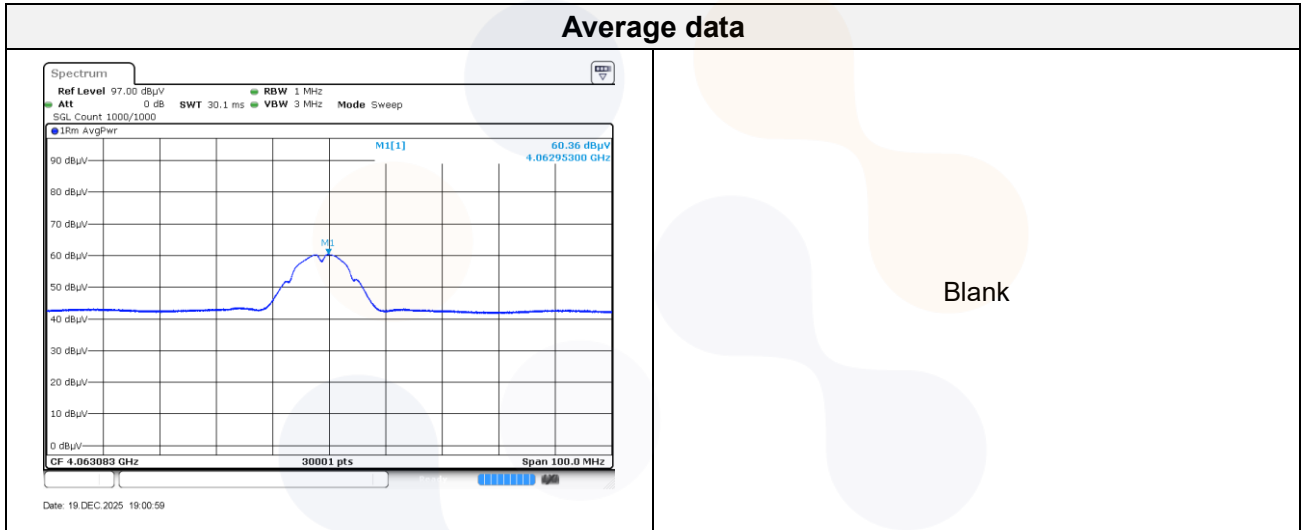


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

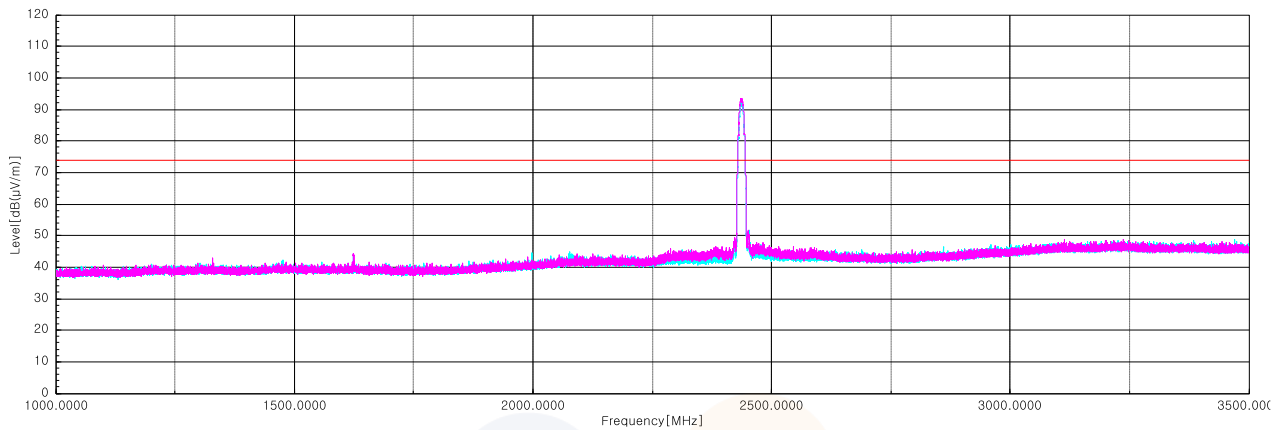


802.11b_2 437 MHz

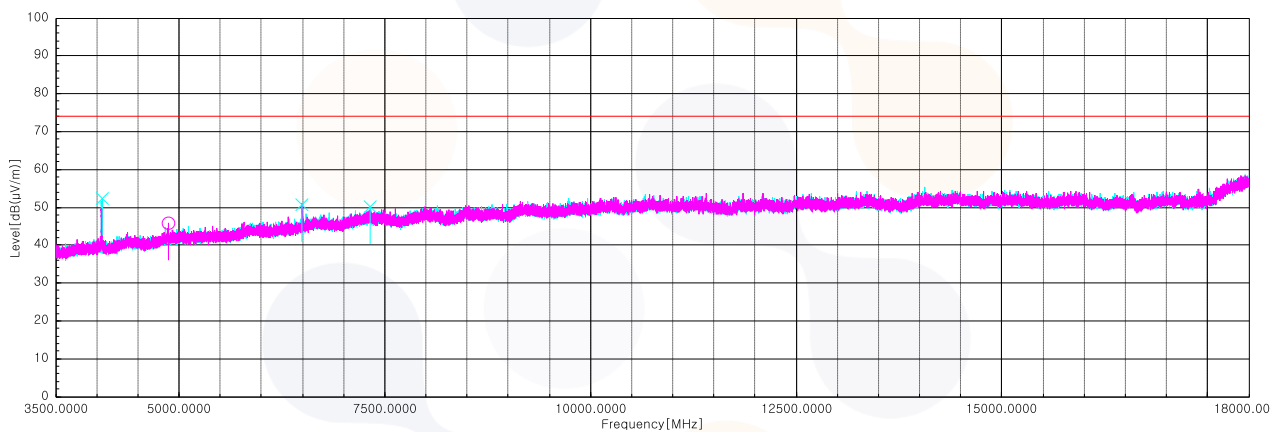
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
s(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
4 062.95 ¹⁾	V	64.90	30.70	-43.29	-	52.31	74.00	21.69
4 874.12 ¹⁾	H	54.90	32.64	-41.65	-	45.89	74.00	28.11
6 498.60	V	55.40	34.99	-39.69	-	50.70	74.00	23.30
7 325.10 ¹⁾	V	52.50	36.45	-38.94	-	50.01	74.00	23.99
Average Data								
4 062.95 ¹⁾	V	60.36	30.70	-43.29	0.16	47.93	54.00	6.07



Horizontal/Vertical for 1 GHz ~ 3.5 GHz

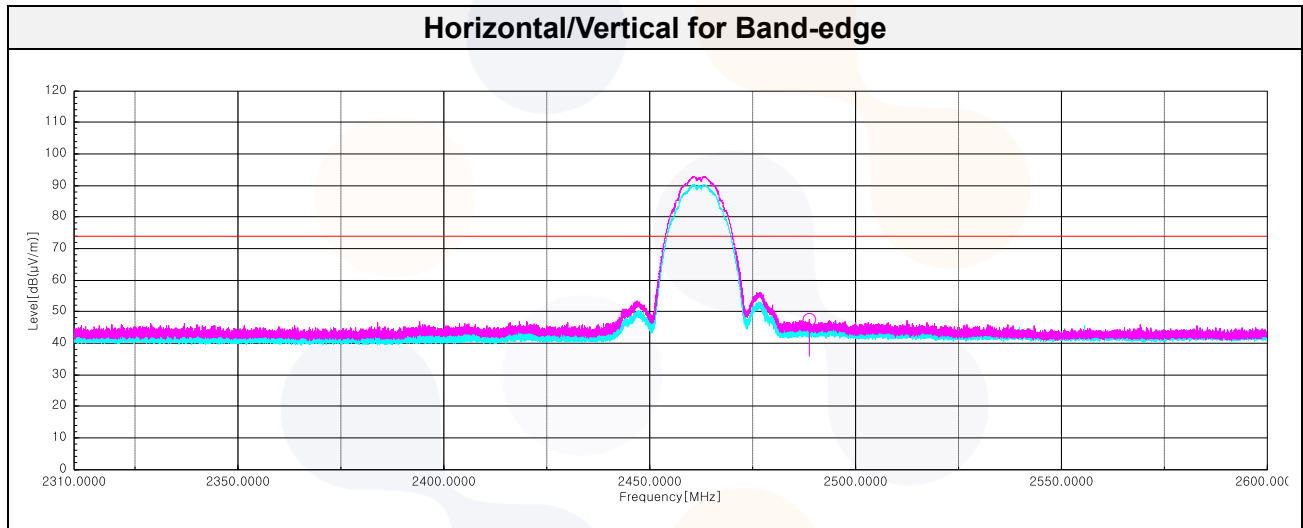


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

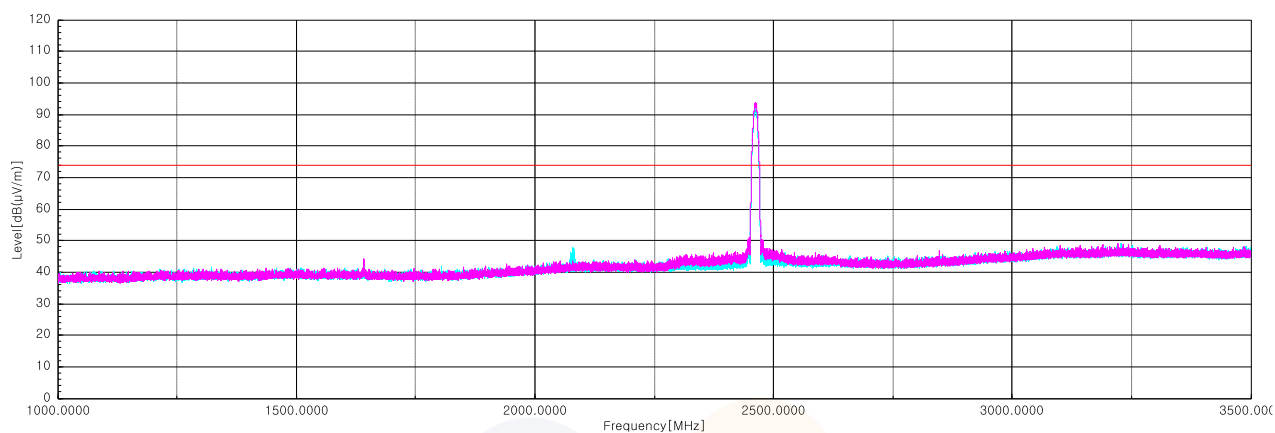


802.11b_2 462 MHz

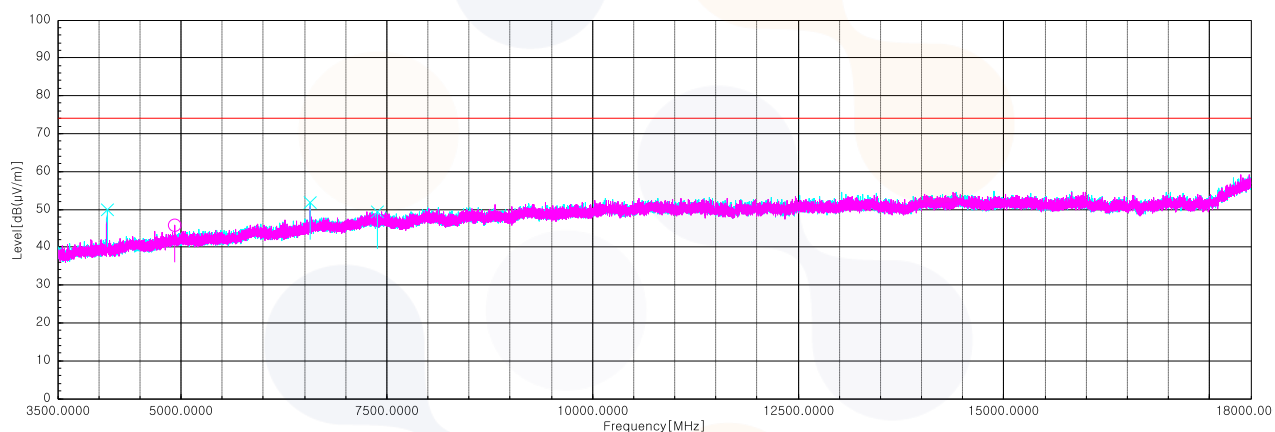
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 488.73 ¹⁾	H	49.40	27.79	-29.79	-	47.40	74.00	26.60
4 101.75 ¹⁾	V	62.40	30.70	-43.17	-	49.93	74.00	24.07
4 923.90 ¹⁾	H	54.50	32.65	-41.53	-	45.62	74.00	28.38
6 565.78	V	55.70	35.39	-39.49	-	51.60	74.00	22.40
7 386.00 ¹⁾	V	51.80	36.33	-38.98	-	49.15	74.00	24.85
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 3.5 GHz

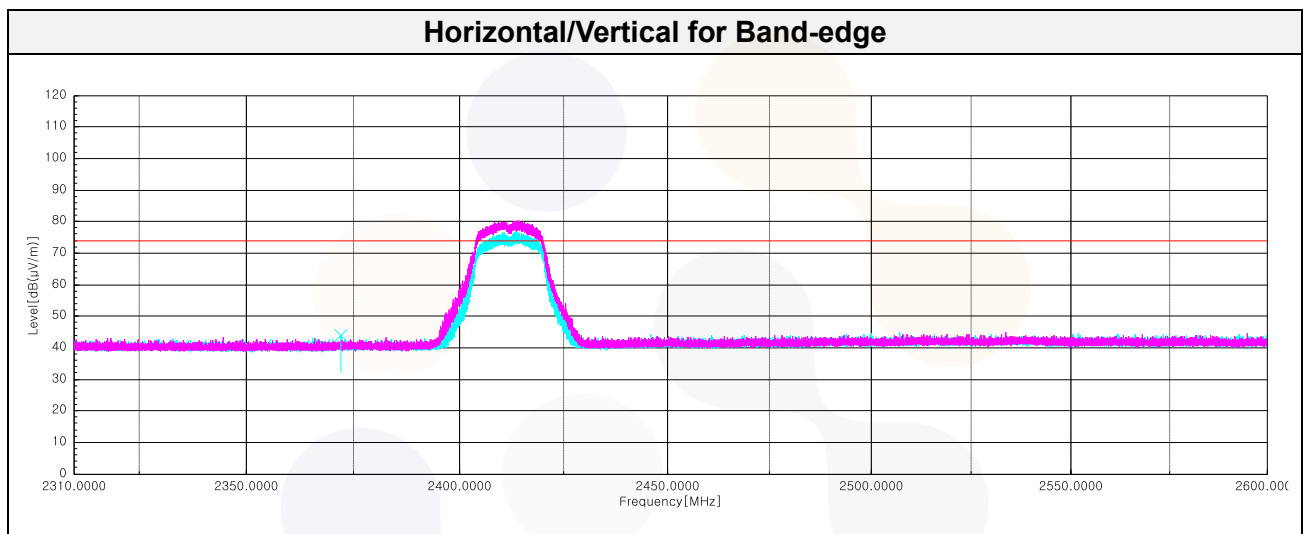


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

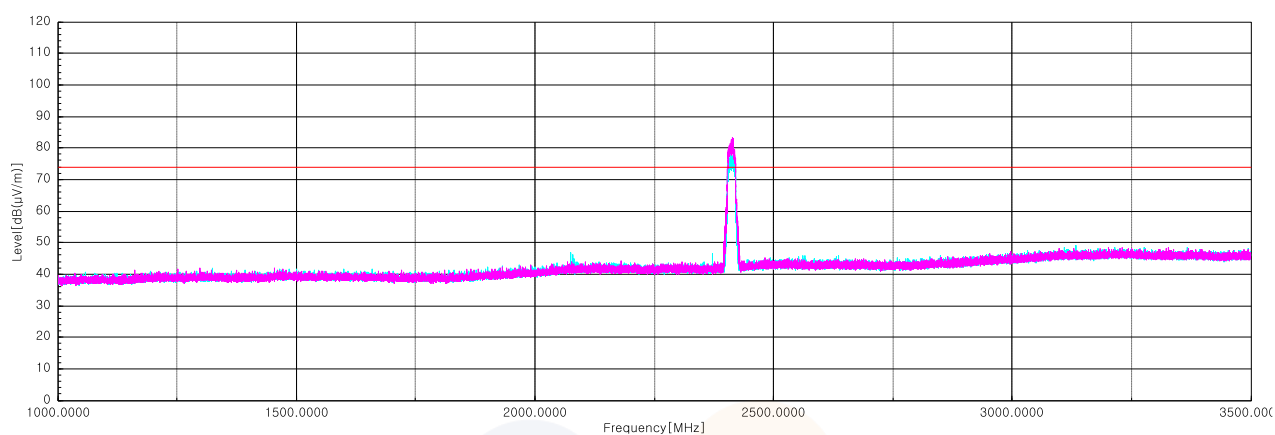


802.11g_2 412 MHz

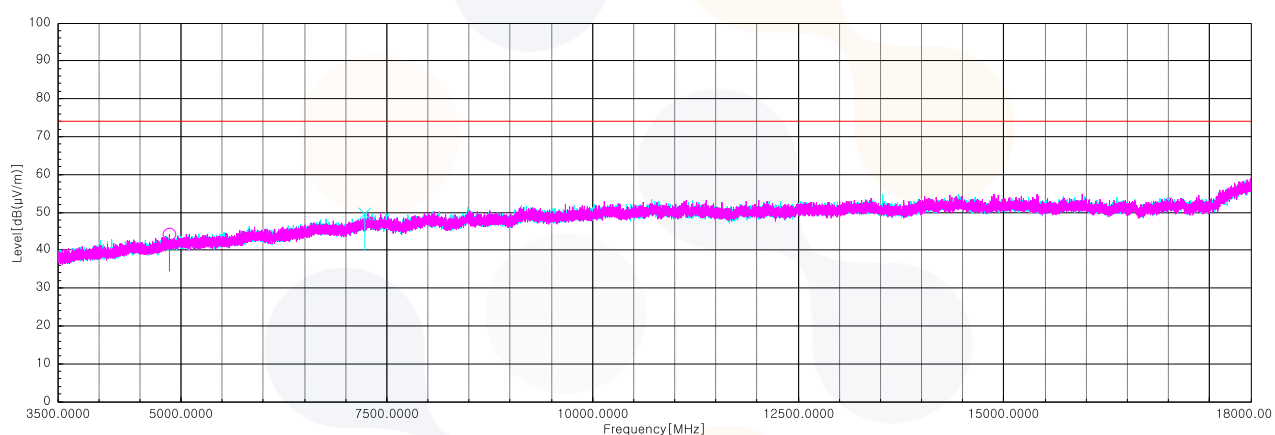
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 372.05 ¹⁾	V	46.90	27.02	-29.95	-	43.97	74.00	30.03
4 862.03 ¹⁾	H	53.10	32.57	-41.68	-	43.99	74.00	30.01
7 236.17	V	51.80	36.57	-38.91	-	49.46	74.00	24.54
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



802.11g_2 437 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
4 062.89 ¹⁾	V	63.70	30.70	-43.29	-	51.11	74.00	22.89
4 870.73 ¹⁾	H	54.60	32.62	-41.66	-	45.56	74.00	28.44
6 498.60	V	53.50	34.99	-39.69	-	48.80	74.00	25.20
7 270.48 ¹⁾	H	51.90	36.64	-38.91	-	49.63	74.00	24.37
Average Data								
4 062.89 ¹⁾	V	56.03	30.70	-43.29	0.28	43.72	54.00	10.28

