TEST REPORT

KCTL Inc.
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Suwon-si, Gyeonggi-do, 443-390, Korea
TEL: 82 70 5008 1021
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http://www.kctl.co.kr

1. Applicant

Name:	DIGIPARTS, Inc
Address:	U-Tower #1901, 120 Heungdeokjungang-ro, Giheung-gu, Yongin-si, Gyeonggido, 446-982, Korea

2. Sample Description:

FCC ID:	2AHWQ-DT800
Type of equipment:	Car Navigation
Basic Model:	DT800

3. Date of Test: June 23 ~ August 24, 2016

4. Test standard used: FCC Part 15 Subpart C 15.247

5. Test Results

Test Item:	Refer to page 7
Result:	Complied (Refer to page 8 ~ page 56)
Measurement Uncertainty:	Refer to page 7

This result shown in this report refer only to the sample(s) tested unless otherwise stated.

Affirmation	Tested by Name: HEE SU, AHN	Technical Manager Name: CHANG MIN, KIM

2016. 08. 24

KCTL Inc.

History of Issued Test Report

Issued date:.	Report Number	History
July 07, 2016	KCTL16-FR0057	Issued the original test teport
August 24, 2016	KCTL16-FR0057(1)	Re-tested Spurious Emission

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1. Client information

Applicant:	DIGIPARTS, Inc
Address:	U-Tower #1901, 120 Heungdeokjungang-ro, Giheung-gu, Yongin-si, Gyeonggido, 446-982, Korea
Telephone number:	+82-31-627-5921
Facsimile number:	+82-31-627-5921
Contact person:	Jae-woo Lee / jwlee@digiparts.co.kr

Manufacturer:	DIGIPARTS, Inc
Address:	U-Tower #1901, 120 Heungdeokjungang-ro, Giheung-gu, Yongin-si, Gyeonggido, 446-982, Korea

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2. Laboratory information

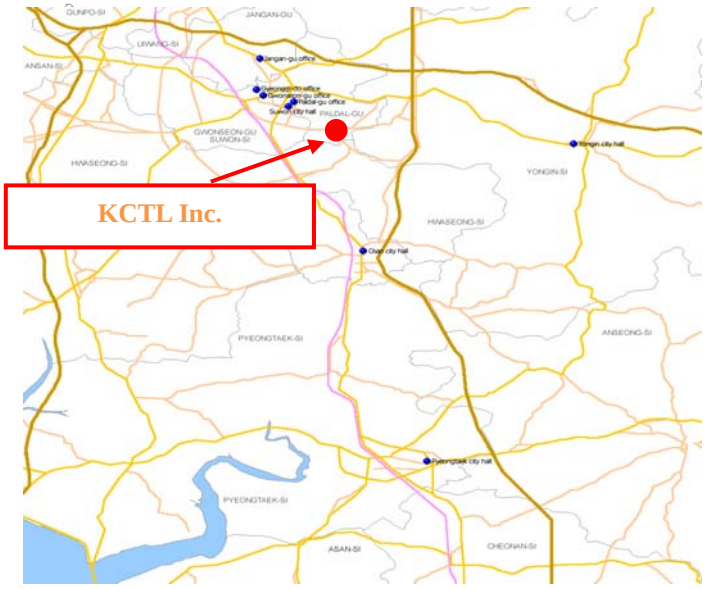
Address

KCTL Inc.
480-5, Sin-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea
Telephone Number: +82-70-5008-1016 Facsimile Number: +82-505-299-8311

Certificate

KOLAS No.: KT231
FCC Site Designation No.: KR0040
FCC Site Registration No.: 687132
VCCI Site Registration No.: R-3327, G-198, C-3706, T-1849
IC Site Registration No.:8035A-2

SITE MAP



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3. Description of E.U.T.

3.1 Basic description

Applicant	DIGIPARTS, Inc
Address of Applicant	U-Tower #1901, 120 Heungdeokjungang-ro, Giheung-gu, Yongin-si, Gyeonggido, 446-982, Korea
Manufacturer	DIGIPARTS, Inc
Address of Manufacturer	U-Tower #1901, 120 Heungdeokjungang-ro, Giheung-gu, Yongin-si, Gyeonggido, 446-982, Korea
Type of equipment	Car Navigation
Basic Model	DT800
Serial number	N/A

3.2 General description

Frequency Range	2 402 ㎒ ~ 2 480 ㎒ (Bluetooth) 2 412 ㎒ ~ 2 462 ㎒ (802.11b/g/n_HT20) 5 745 ㎒ ~ 5 825 ㎒ (802.11a/n_HT20)
Type of Modulation	GFSK, π/4DQPSK, 8DPSK (Bluetooth) 802.11b: DSSS, 802.11a/g/n: OFDM
The number of channels	2.4 ㎓: 79 channels (Bluetooth) 11 ch (802.11b/g/n HT20) 5.8 ㎓: 5 725 ㎒ Band: 5 ch (802.11a/n_HT20)
Type of Antenna	Chip Antenna
Antenna Gain	2.4 ㎓: 2.1 ㏈i (2 400 ㎒ ~ 2 483.5 ㎒) 5.8 ㎓: 2.4 ㏈i (5 725 ㎒ ~ 5 875 ㎒)
Transmit Power	18.68 ㏈m
Power supply	DC 12 V
Product SW/HW version	1.0
Radio SW/HW version	1.0
Test SW Version	Ampak RFTestTool, VER:5.0
RF power setting in TEST SW	Referred the measuring instrument from manufacturer

Note : The above EUT information was declared by the manufacturer.

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3.3 Test frequency

	Frequency
Lowest frequency	2 412 ㎒
Middle frequency	2 437 ㎒
Highest frequency	2 462 ㎒

3.4 Test Voltage

Mode	Voltage
Nominal Voltage	DC 12 V

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4. Summary of test results

4.1 Standards & results

FCC Rule Reference	IC Rule Reference	Parameter	Report Section	Test Result
15.203, 15.247(b)(4)	-	Antenna Requirement	5.1	C
15.247(b)(3)	RSS-247, 5.4(4)	Maximum Peak Output Power	5.2	C
15.247(e)	RSS-247, 5.2	Peak Power Spectral Density	5.3	C
15.247(a)(2)	RSS-247, 5.2	6 dB Channel Bandwidth	5.4	C
-	RSS-247, 5.2	Occupied Bandwidth	5.4	C
15.247(d), 15.205(a), 15.209(a)	RSS-247, 5.5 RSS-GEN, 8.9, 10	Spurious Emission, Band Edge and Restricted bands	5.5	C
15.207(a)	RSS-GEN, 8.8	Conducted Emissions	5.6	C

Note: C = complies
NC = Not complies
NT = Not tested
NA = Not Applicable

- The general test methods used to test this device is ANSI C63.10:2013

4.2 Uncertainty

Measurement Item	Expanded Uncertainty U = *k*Uc (*k* = 2)	
Conducted RF power	1.44 dB	
Conducted Spurious Emissions	1.52 dB	
Radiated Spurious Emissions	30 MHz ~ 300 MHz:	+ 4.94 dB, - 5.06 dB
		+ 4.93 dB, - 5.05 dB
	300 MHz ~ 1 000 MHz:	+ 4.97 dB, - 5.08 dB
		+ 4.84 dB, - 4.96 dB
	1 GHz ~ 25 GHz:	+ 6.03 dB, - 6.05 dB
Conducted Emissions	9 kHz ~ 150 kHz:	3.75 dB
	150 kHz ~ 30 MHz:	3.36 dB

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5. Test results

5.1 Antenna Requirement

5.1.1 Regulation

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. 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And 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.

5.1.2 Result

-Complied

The transmitter has permanently attached chip Antenna.

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5.2 Maximum Peak Output Power

5.2.1 Regulation

According to §15.247(b)(3), For systems using digital modulation in the 902-928 ㎒, 2 400-2 483.5 ㎒, and 5 725-5 850 ㎒ 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 ㏈i. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 ㏈i 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 ㏈ that the directional gain of the antenna exceeds 6 ㏈i.

5.2.2 Measurement Procedure

These test measurement settings are specified in section 9.0 of 558074 D01 DTS Meas Guidance.

5.2.2.1 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 utilize a fast-responding diode detector.

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5.2.3 Test Result

- Complied

- 802.11b

Channel	Frequency (㎒)	Result (dBm)	Limit (dBm)	Margin (dB)	Average Power (dBm)
Lowest	2 412	14.57	30.00	15.43	10.04
Middle	2 437	14.67	30.00	15.33	10.00
Highest	2 462	14.57	30.00	15.43	10.13

- 802.11g

Channel	Frequency (㎒)	Result (dBm)	Limit (dBm)	Margin (dB)	Average Power (dBm)
Lowest	2 412	18.47	30.00	11.53	11.03
Middle	2 437	18.68	30.00	11.32	11.38
Highest	2 462	18.58	30.00	11.42	11.39

- 802. 11n HT20

Channel	Frequency (㎒)	Result (dBm)	Limit (dBm)	Margin (dB)	Average Power (dBm)
Lowest	2 412	18.27	30.00	11.73	9.95
Middle	2 437	18.17	30.00	11.83	10.20
Highest	2 462	18.27	30.00	11.73	10.42

NOTE:

1. We took the insertion loss of the cable loss into consideration within the measuring instrument.

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5.3 Peak Power Spectral Density

5.3.1 Regulation

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 ㎑ 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.

5.3.2 Measurement Procedure

These test measurement settings are specified in section 10.0 of 558074 D01 DTS Meas Guidance.

5.3.2.1 Method PKPSD (peak PSD)

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

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 ㎑ ≤ RBW ≤ 100 ㎑.

4) Set the VBW ≥ 3 x RBW.

5) Detector = peak.

6) Sweep time = auto couple.

7) Trace mode = max hold.

8) Allow trace to fully stabilize.

9) Use the peak marker function to determine the maximum amplitude level within the RBW.

10) If measured value exceeds limit, reduce RBW (no less than 3 ㎑) and repeat.

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5.3.3 Test Result

- Complied

- 802.11b

Channel	Frequency [㎒]	Result (RBW=3 kHz) [dBm]	Limit	Margin [dB]
Lowest	2 412	-9.79	8 dBm/3 ㎑	17.79
Middle	2 437	-10.05		18.05
Highest	2 462	-10.34		18.34

- 802.11g

Channel	Frequency [㎒]	Result (RBW=3 kHz) [dBm]	Limit	Margin [dB]
Lowest	2 412	-12.46	8 dBm/3 ㎑	20.46
Middle	2 437	-12.29		20.29
Highest	2 462	-12.06		20.06

- 802.11n HT20

Channel	Frequency [㎒]	Result (RBW=3 kHz) [dBm]	Limit	Margin [dB]
Lowest	2 412	-12.33	8 dBm/3 ㎑	20.33
Middle	2 437	-11.61		19.61
Highest	2 462	-11.07		19.07

NOTE:

1. We took the insertion loss of the cable loss into consideration within the measuring instrument.

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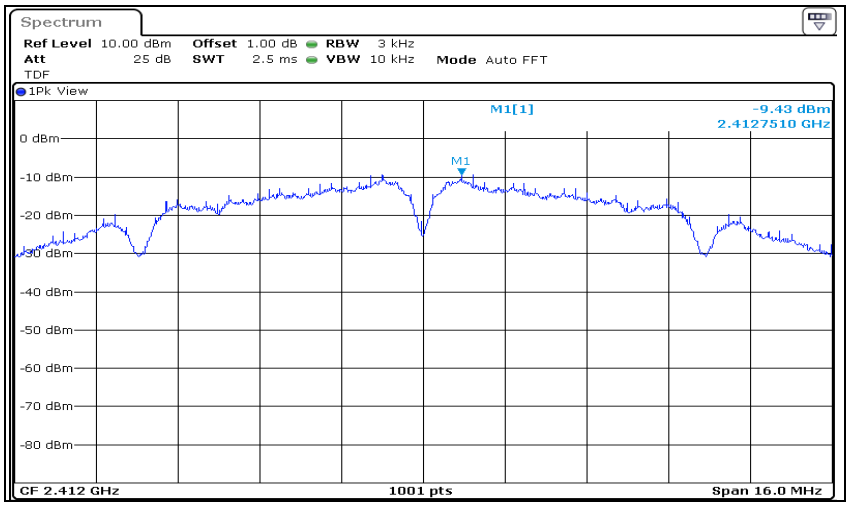
5.3.4 Test Plot

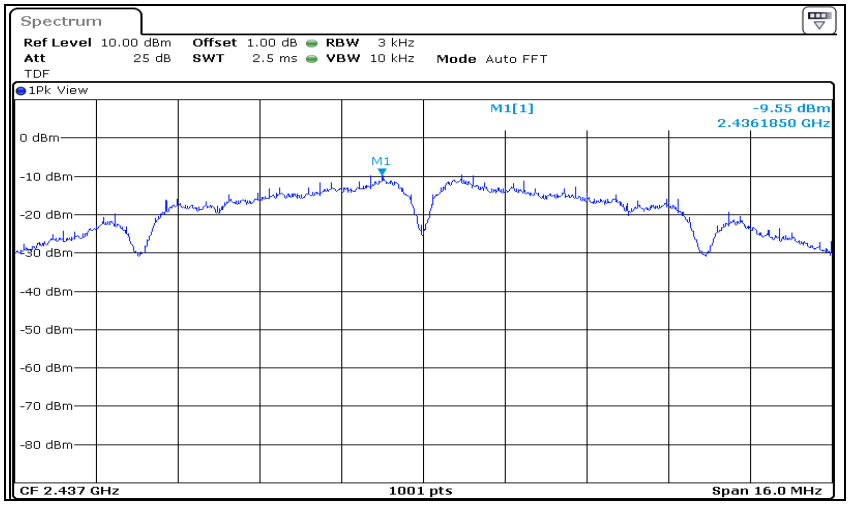
Figure 1. Plot of the Power Density

- 802.11b

Lowest Channel (2 412 ㎒)



Middle Channel (2 437 ㎒)



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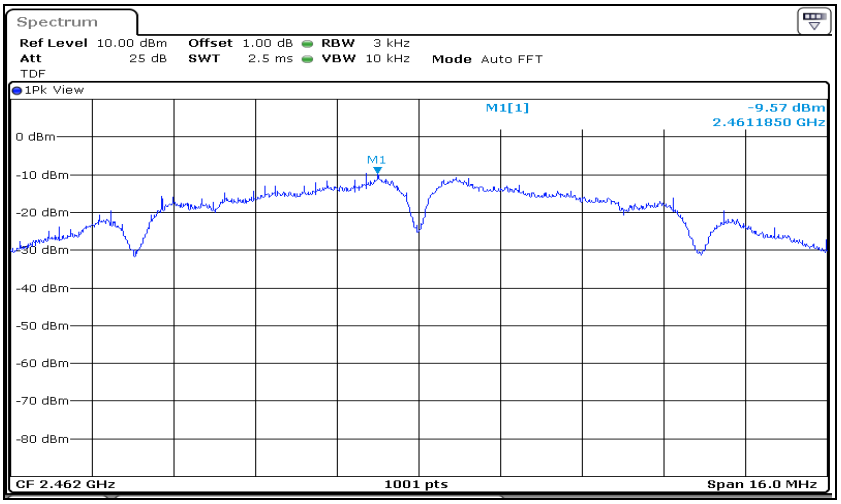
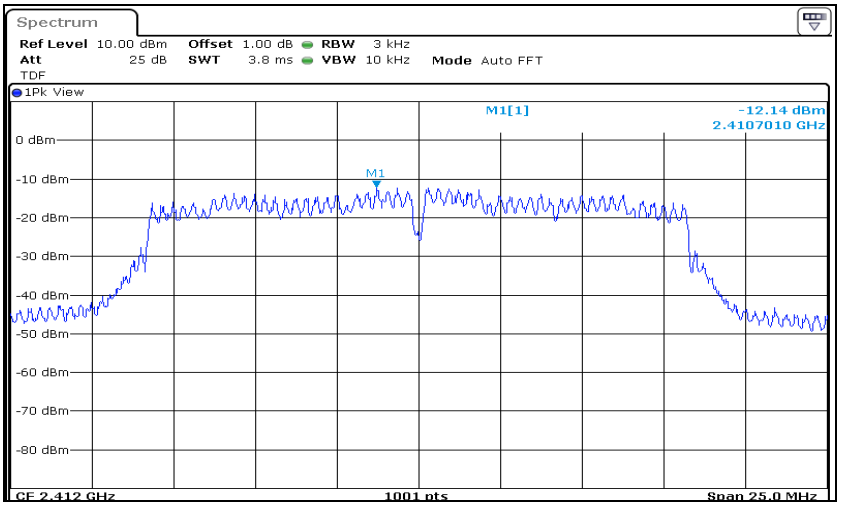
Highest Channel (2 462 ㎒)



- 802.11g

Lowest Channel (2 412 ㎒)



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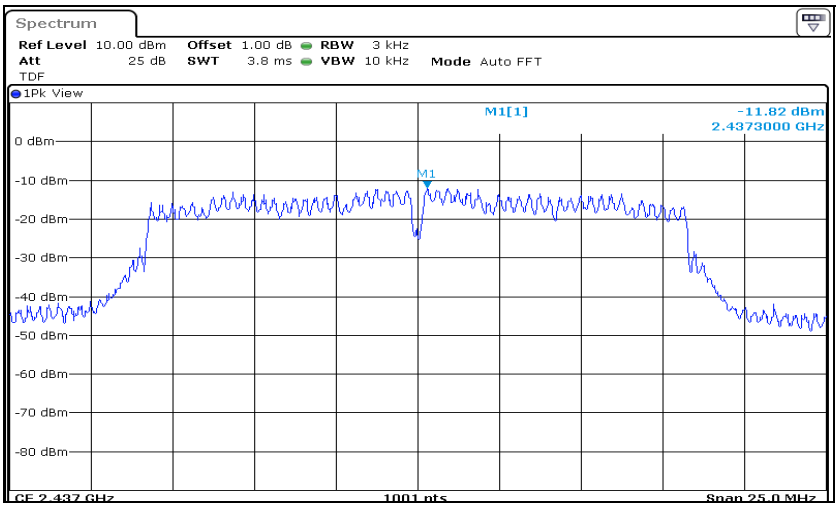
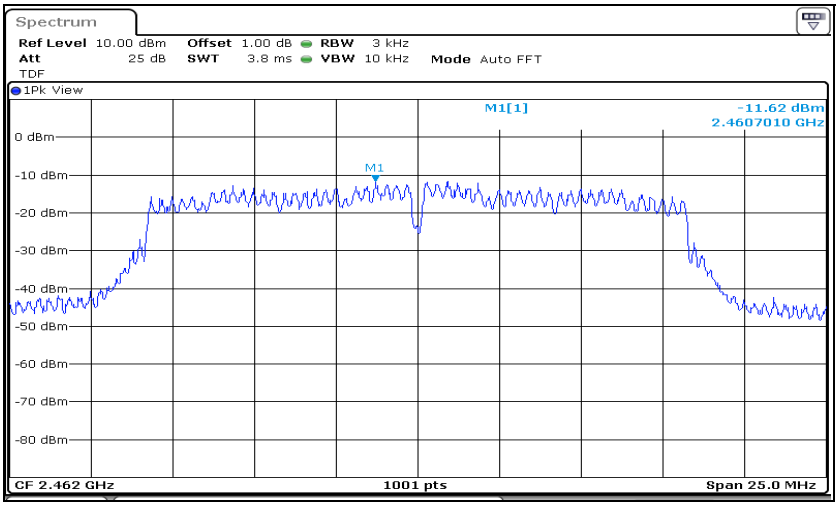
Middle Channel (2 437 ㎒)



Highest Channel (2 462 ㎒)



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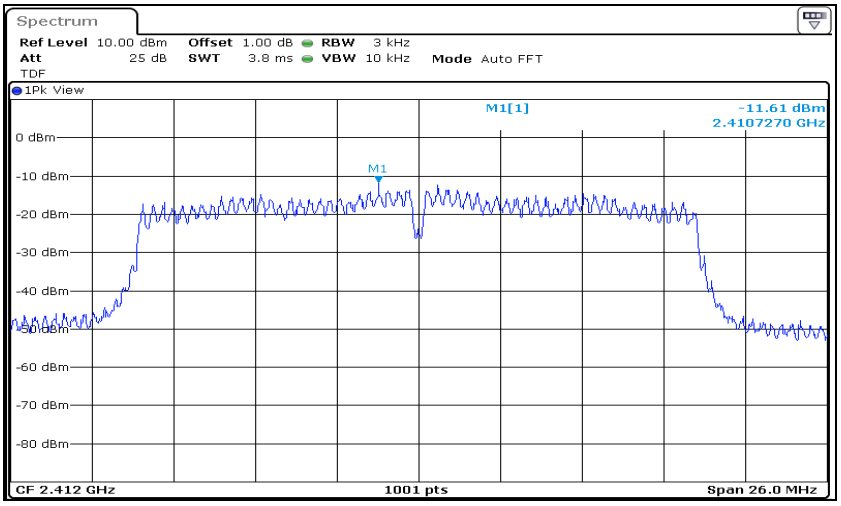
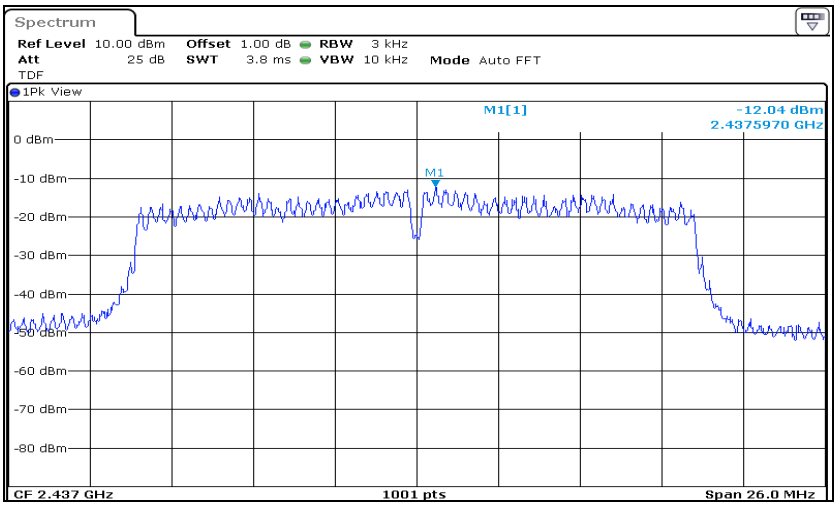
- 802.11n HT20

Lowest Channel (2 412 ㎒)



Middle Channel (2 437 ㎒)



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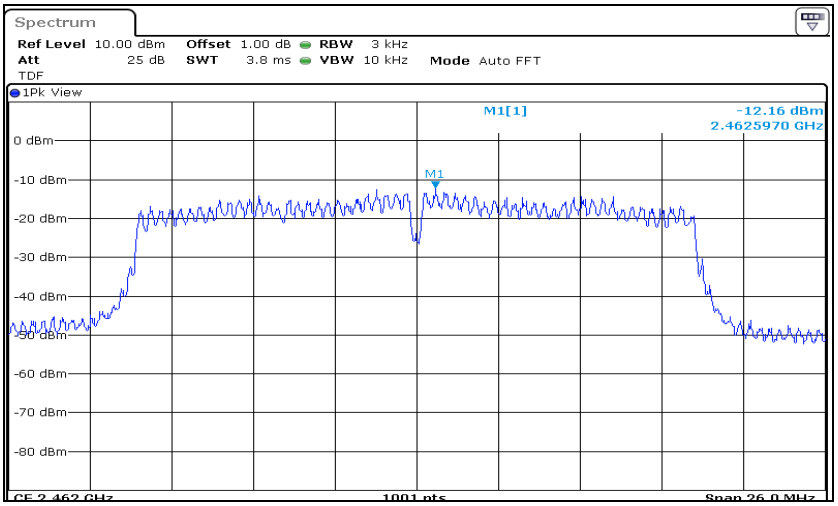
Highest Channel (2 462 ㎒)



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5.4 6 dB Bandwidth(DTS Channel Bandwidth)

5.4.1 Regulation

According to §15.247(a)(2) Systems using digital modulation techniques may operate in the 902–928 ㎒, 2 400–2 483.5 ㎒, and 5 725–5 850 ㎒ bands. The minimum 6 ㏈ bandwidth shall be at least 500 ㎑.

5.4.2 Measurement Procedure

These test measurement settings are specified in section 8.0 of 558074 D01 DTS Meas Guidance.

5.4.2.1 DTS Channel Bandwidth-Option 1

1) Set RBW = 100 ㎑.
2) Set the video bandwidth (VBW) ≥ 3 x RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Sweep = auto couple.
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 ㏈ relative to the maximum level measured in the fundamental emission.

5.4.2.2 DTS Channel Bandwidth Measurement Procedure-Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X ㏈ bandwidth mode with X set to 6 ㏈, if the functionality described above (i.e., RBW = 100 ㎑, VBW ≥ 3 x RBW, 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 ㏈.

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5.4.3 Test Result

- Complied

- 802.11b

Channel	Frequency [㎒]	6 dB Bandwidth [㎒]	Min. Limit [㎒]	Occupied Bandwidth (99 % BW) [㎒]
Lowest	2 412	9.04	0.50	14.09
Middle	2 437	9.06	0.50	14.34
Highest	2 462	9.04	0.50	14.49

- 802.11g

Channel	Frequency [㎒]	6 dB Bandwidth [㎒]	Min. Limit [㎒]	Occupied Bandwidth (99 % BW) [㎒]
Lowest	2 412	15.63	0.50	16.78
Middle	2 437	15.46	0.50	16.78
Highest	2 462	15.33	0.50	16.88

- 802.11n HT20

Channel	Frequency [㎒]	6 dB Bandwidth [㎒]	Min. Limit [㎒]	Occupied Bandwidth (99 % BW) [㎒]
Lowest	2 412	15.29	0.50	17.58
Middle	2 437	15.44	0.50	17.58
Highest	2 462	15.53	0.50	17.63

NOTE:
1. We took the insertion loss of the cable loss into consideration within the measuring instrument.

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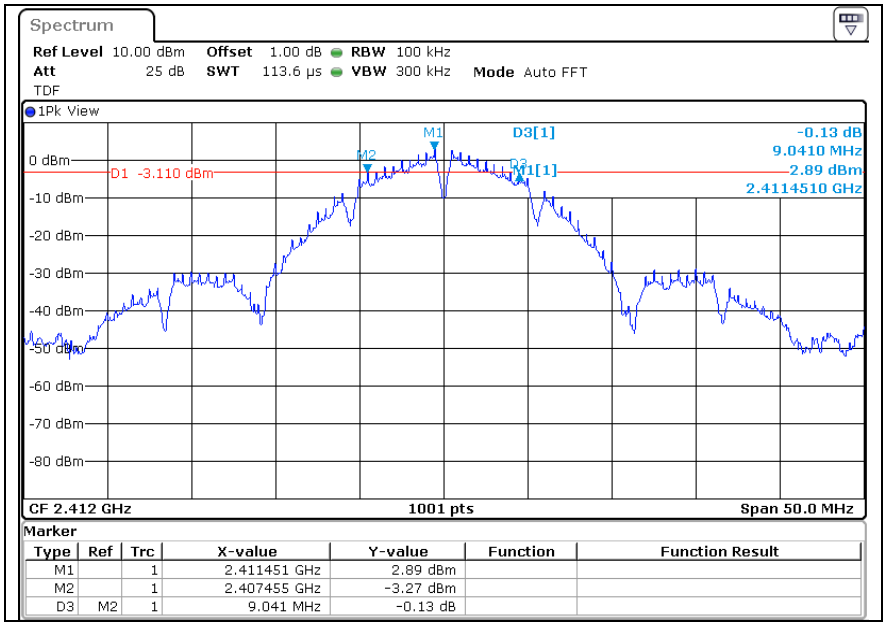
5.4.4 Test Plot

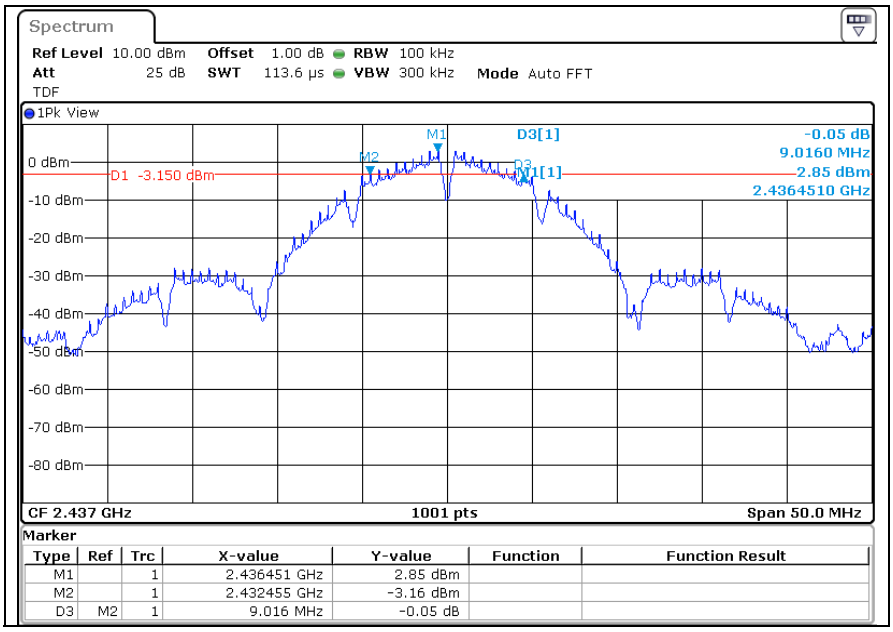
Figure 2. Plot of the 6 dB Bandwidth & Occupied Bandwidth

- 802.11b_6 dB Bandwidth

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



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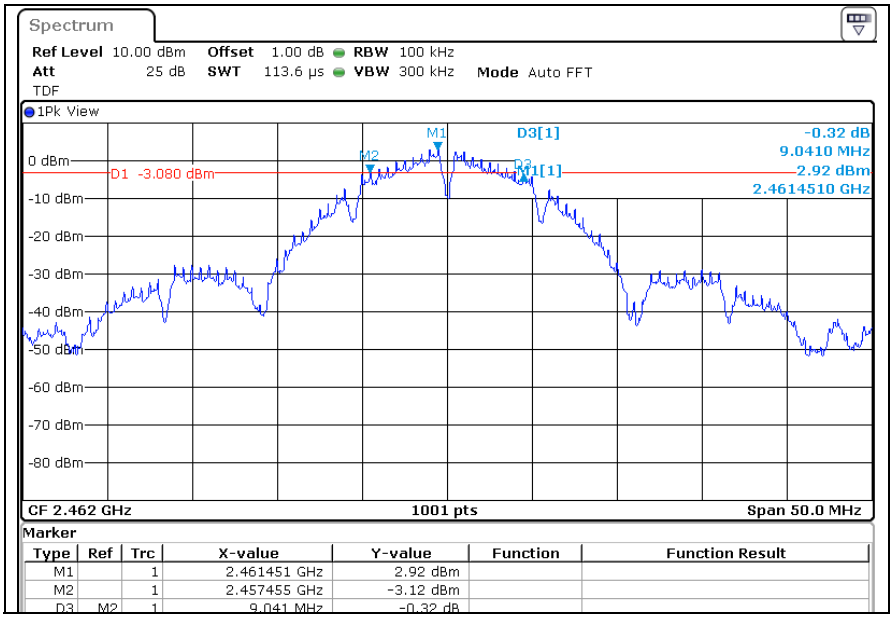
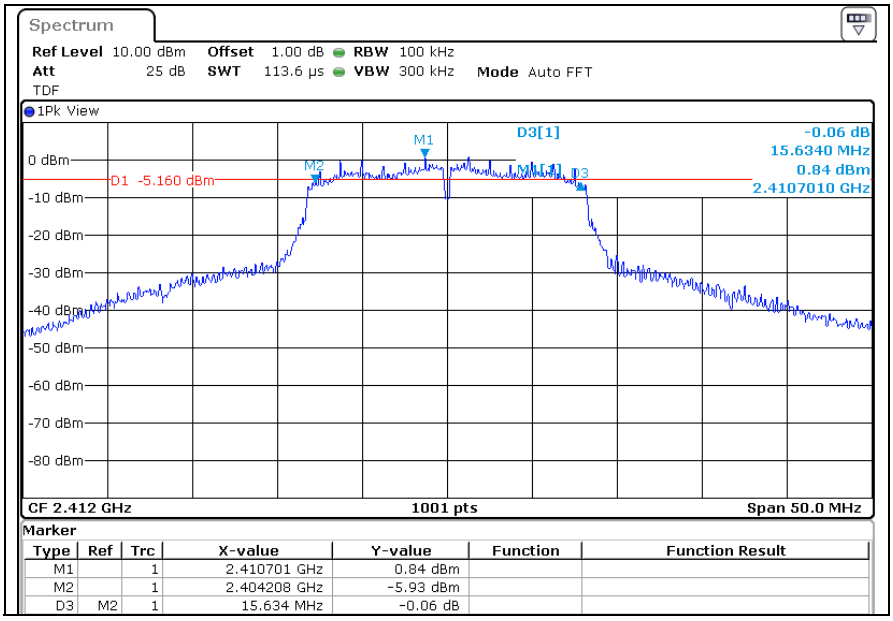
Highest Channel (2 462 ㎒)



- 802.11g_6 ㏈ Bandwidth

Lowest Channel (2 412 ㎒)



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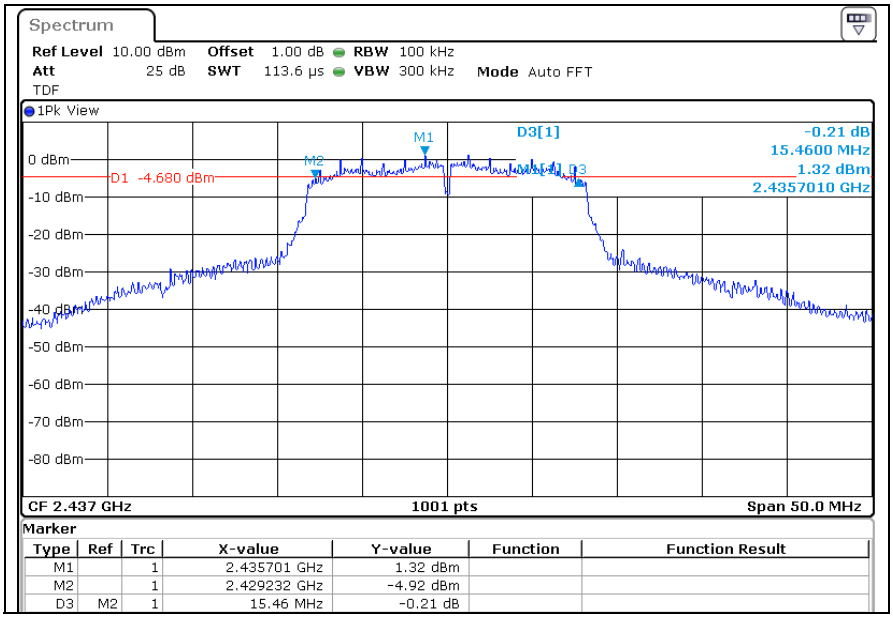
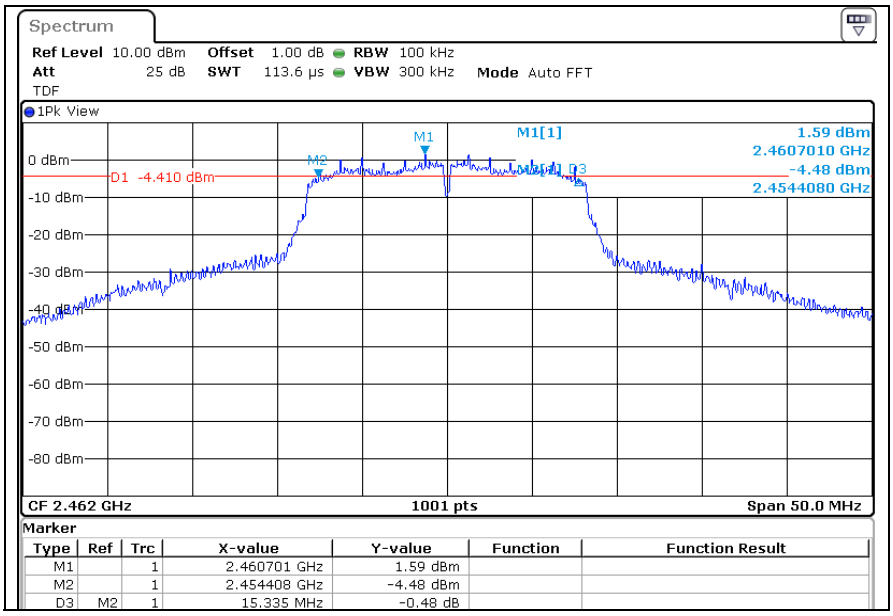
Middle Channel (2 437 ㎒)



Highest Channel (2 462 ㎒)



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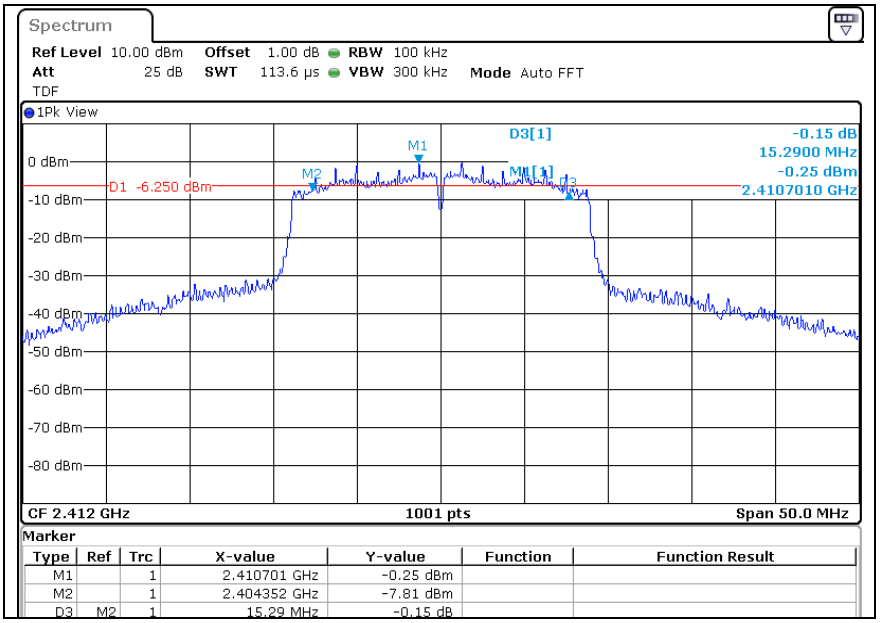
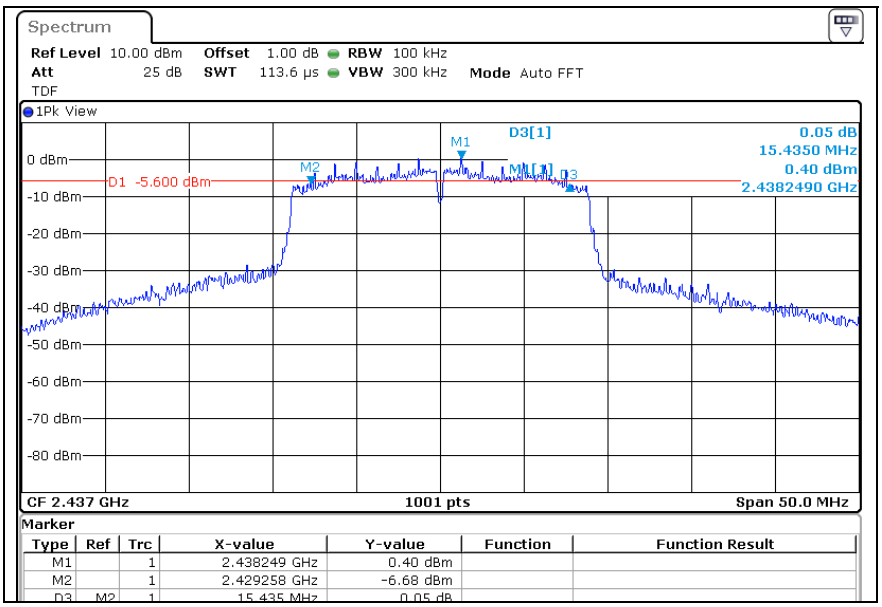
- 802.11n HT20_6 dB Bandwidth

Lowest Channel (2 412 ㎒)



Middle Channel (2 437 ㎒)



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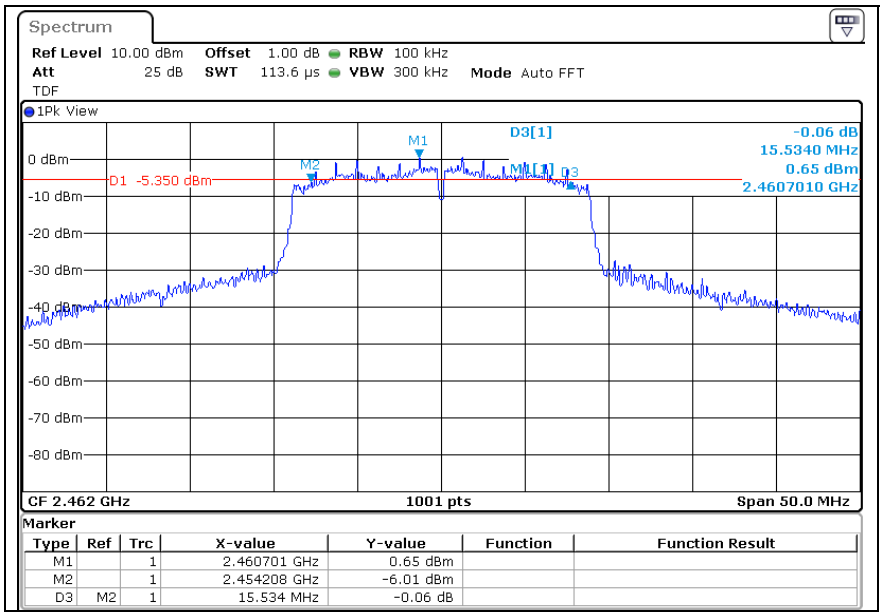
Highest Channel (2 462 ㎒)



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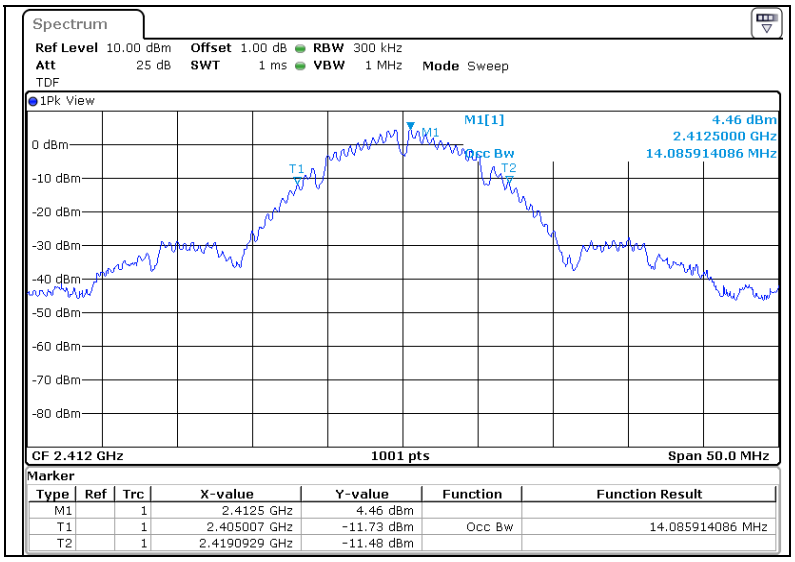
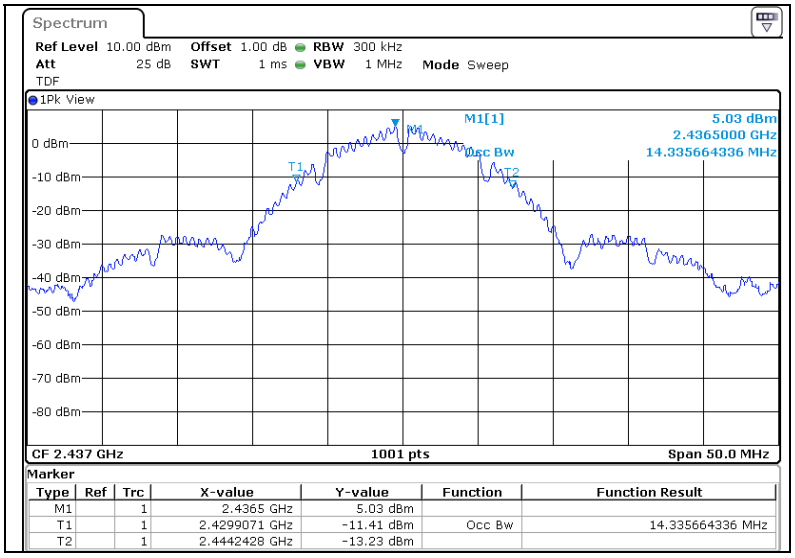
- 802.11b_Occupied Bandwidth

Lowest Channel (2 412 ㎒)



Middle Channel (2 437 ㎒)



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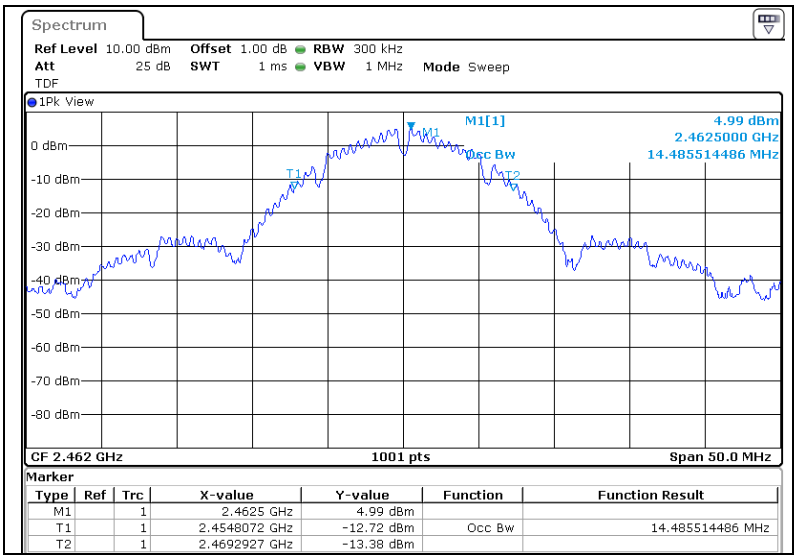
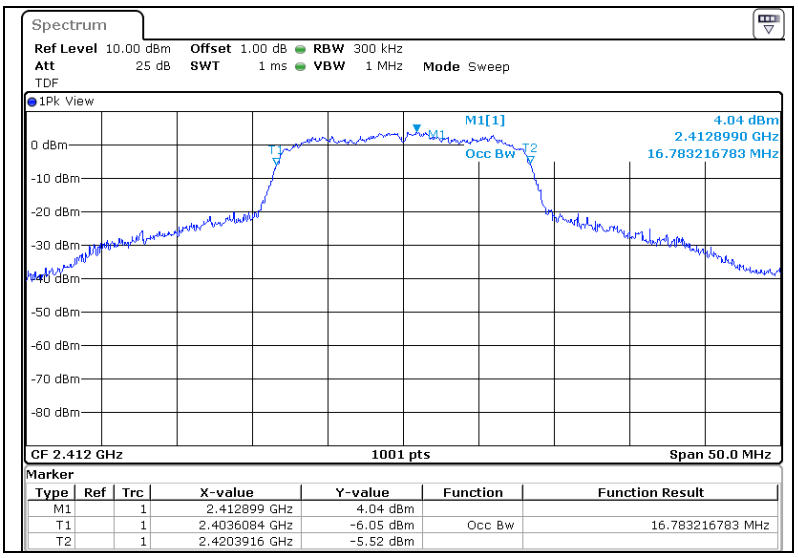
Highest Channel (2 462 ㎒)



- 802.11g_Occupied Bandwidth

Lowest Channel (2 412 ㎒)



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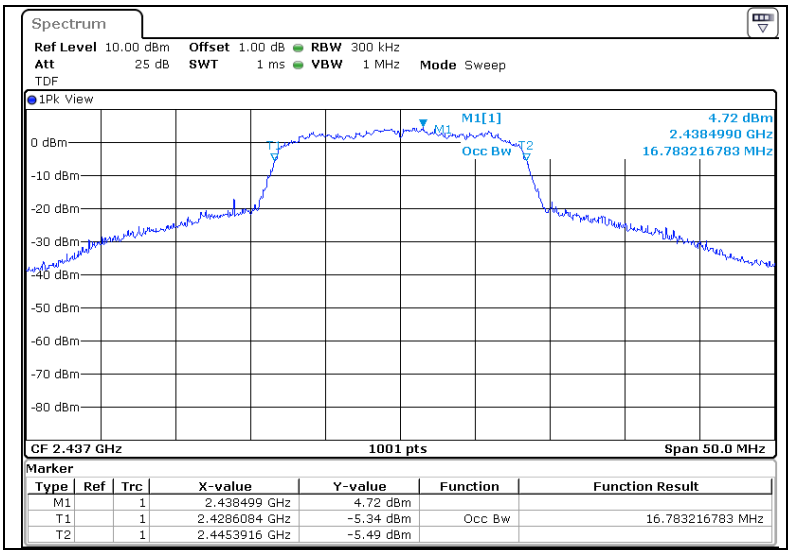
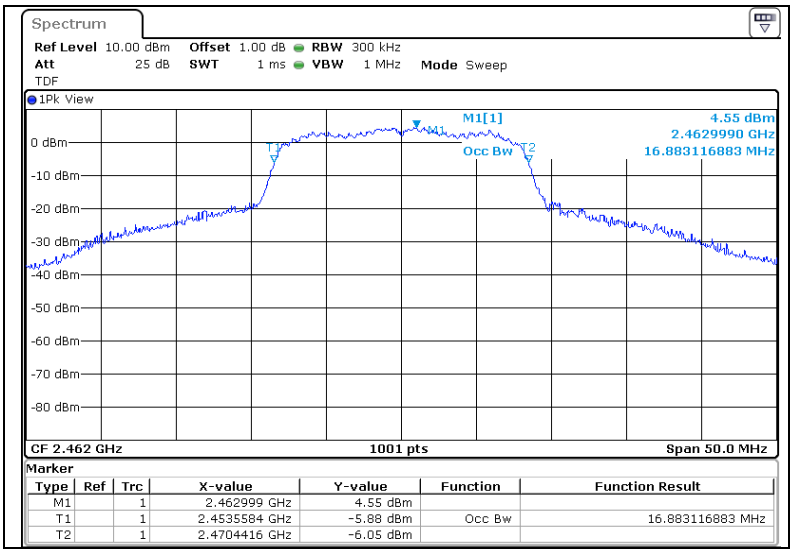
Middle Channel (2 437 ㎒)



Highest Channel (2 462 ㎒)



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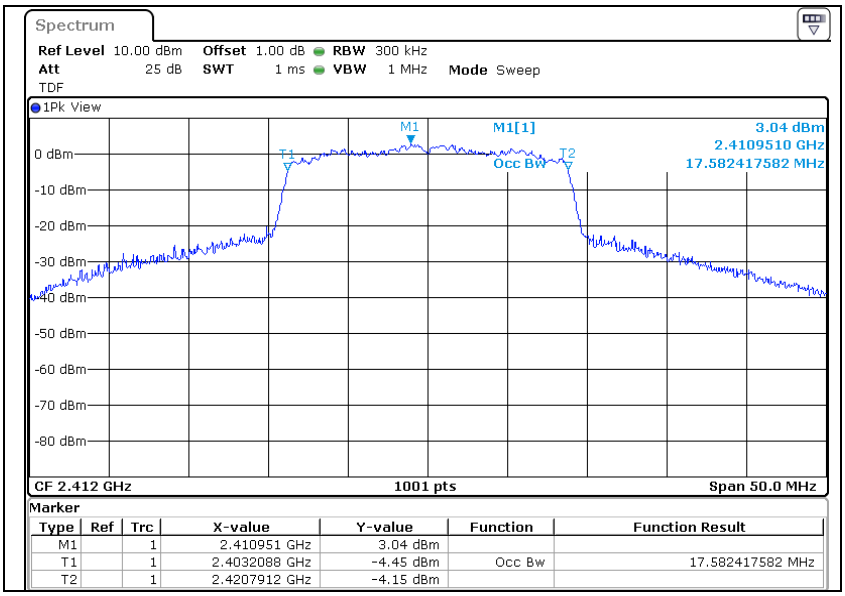
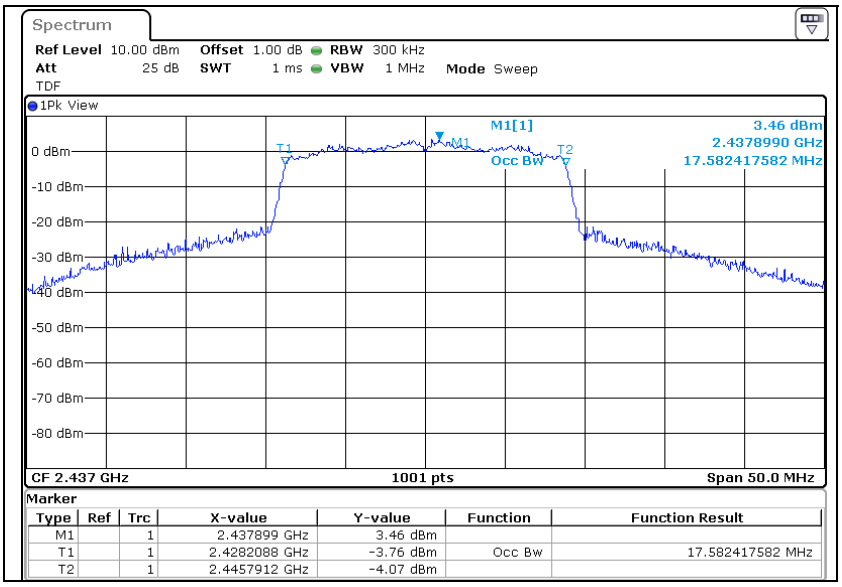
- 802.11n HT20_Occupied Bandwidth

Lowest Channel (2 412 ㎒)



Middle Channel (2 437 ㎒)



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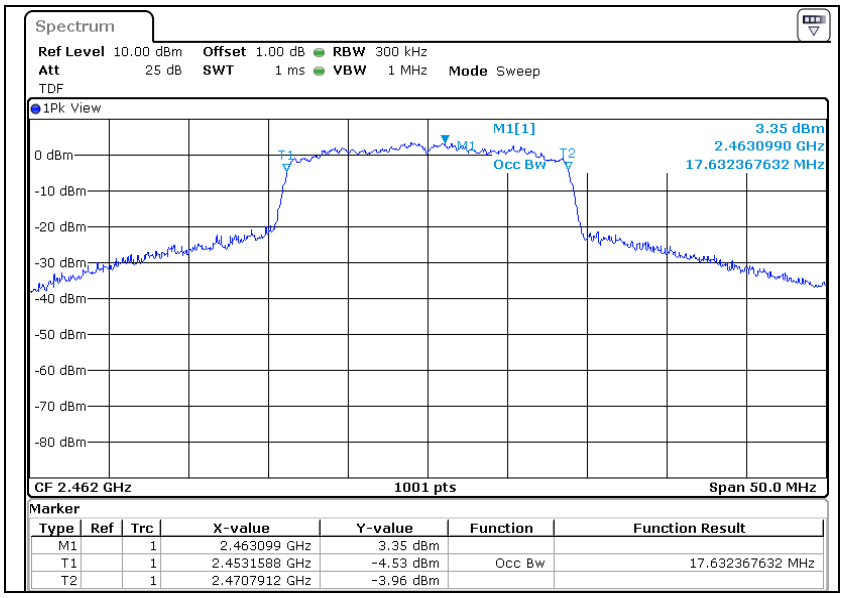
Highest Channel (2 462 ㎒)



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5.5 Spurious Emission, Band Edge, and Restricted bands

5.5.1 Regulation

According to §15.247(d), in any 100 ㎑ 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 ㏈ below that in the 100 ㎑ 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 30 ㏈ instead of 20 ㏈. Attenuation below the general limits specified in Section 15.209(a) is not required. 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)).

According to §15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall notexceed the field strength levels specified in the following table:

Frequency (㎒)	Field strength (㎛/m)	Measurement distance (m)
0.009 - 0.490	2 400/F(㎑)	300
0.490 - 1.705	24 000/F(㎑)	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 ㎒, 76–88 ㎒, 174–216 ㎒ or 470–806 ㎒. However, operation within these frequency bands is permItted under other sections of this part, e.g., §§15.231 and 15.241.

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According to § 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 25	2 483.5 – 2 500	17.7 - 21.4
8.376 25 - 8.386 75	156.7 - 156.9	2 690 – 2 900	22.01 - 23.12
8.414 25 - 8.414 75	162.012 5 - 167.17	3 260 – 3 267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3 332 – 3 339	31.2 - 31.8
12.519 75 - 12.520 25	240 - 285	3 345.8 – 3 358	36.43 - 36.5
12.576 75 - 12.577 25	322 - 335.4	3 600 – 4 400	Above 38.6
13.36 - 13.41			

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

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5.5.2 Measurement Procedure

5.5.2.1 Band-edge Compliance of RF Conducted Emissions

5.5.2.1.1 Reference Level Measurement

Establish a reference level by using the following procedure:

1) Set instrument center frequency to DTS channel center frequency.
2) Set the span to ≥ 1.5 times the DTS bandwidth.
3) Set the RBW = 100 ㎑.
4) Set the VBW ≥ 3 x RBW.
5) Detector = peak.
6) Sweep time = auto couple.
7) Trace mode = max hold.
8) Allow trace to fully stabilize.
9) Use the peak marker function to determine the maximum PSD level.

5.5.2.1.2 Emissions Level Measurement

1) Set the center frequency and span to encompass frequency range to be measured.
2) Set the RBW = 100 ㎑.
3) Set the VBW ≥ 3 x RBW.
4) Detector = peak.
5) Ensure that the number of measurement points ≥ span/RBW
6) Sweep time = auto couple.
7) Trace mode = max hold.
8) Allow trace to fully stabilize.
9) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

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5.5.2.2 Conducted Spurious Emissions

Set the spectrum analyzer as follows:

1) Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2) RBW = 100 ㎑
3) VBW ≥ RBW
4) Sweep = auto
5) Detector function = peak
6) Trace = max hold
7) Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
8) Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

5.5.2.3 Radiated Spurious Emissions

1) The preliminary and final rdiated measurements were performed to determine the frequency producing the maximum emissions in at a 10m semi-anechoic chamber. The EUT was tested at a distance 3 meters.
2) The EUT was placed on the top of the 0.8-meter height, 1 × 1.5 meter non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360˚.
3) The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 ㎑ to 30 ㎒ using the loop antenna, and from 30 to 1 000 ㎒ using the Bi-Log antenna, and from 1 000 ㎒ to 26 500 ㎒ using the horn antenna.
4) Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.
5) The 0.8m height is for below 1 G testing, and 1.5m is for above 1G testing.

Note

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 ㎑ for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1 ㎓.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 ㎒ for Peak detection and frequency above 1 ㎓.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 ㎒ and the video bandwidth is 1 ㎑(≥1/T) for Average detection (AV) at frequency above 1 ㎓. (where T = pulse width)

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5.5.3 Test Result

- Complied

1. Band edge & Conducted Spurious Emissions was shown in figure 3 & 4.
   Note: We took the insertion loss of the cable into consideration within the measuring instrument.
2. Measured value of the Field strength of spurious Emissions (Radiated)
3. It tested x,y and z – 3 axis each, mentioned only worst case data at this report.

※ Noise was not measured. (Margin was more than 20 dB)
Worst value of noise floor was recorded.

- Below 1 GHz data (worst-case: 802.11g)

Middle channel (2 437 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Quasi-Peak DATA. Emissions below 30 MHz (3m Distance)										
below 30.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Quasi-Peak DATA. Emissions below 1 GHz										
396.05	120	V	40.10	-6.10	10.81	-32.62	15.71	34.00	46.00	12.00
693.00	120	H	30.50	0.60	13.88	-32.86	19.58	31.10	46.00	14.90
Above 700.00	**Not Detected**	-	-	-	-	-	-	-	-	-

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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- Above 1 ㎓ data

802.11b_Lowest channel (2 412 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
1 187.50	1 000	V	51.10	-1.70	14.53	-44.91	28.68	49.40	74.00	24.60
2 381.00[1)]	1 000	V	44.40	3.50	16.10	-44.52	31.92	49.40	74.00	24.60
5 156.25	1 000	H	49.40	-3.90	7.40	-46.26	34.96	45.50	74.00	28.50
10 665.00	1 000	H	46.70	3.10	10.28	-45.05	37.87	49.80	74.00	24.20
15 663.75	1 000	V	44.50	6.80	12.68	-46.21	40.33	51.30	74.00	22.70
18 060.56	1 000	H	45.10	10.60	12.40	-45.80	44.00	55.70	74.00	18.30
19 715.94	1 000	H	44.50	11.10	12.90	-46.60	44.80	55.60	74.00	18.40
24 563.06	1 000	V	43.10	12.40	14.70	-47.50	45.20	55.50	74.00	18.50
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
1 187.50	1 000	V	43.10	-1.70	14.53	-44.91	28.68	41.40	54.00	12.60
2 381.00[1)]	1 000	V	34.20	3.50	16.10	-44.52	31.92	37.70	54.00	16.30
5 156.25	1 000	H	37.80	-3.90	7.40	-46.26	34.96	33.90	54.00	20.10
10 665.00	1 000	H	35.40	3.10	10.28	-45.05	37.87	38.50	54.00	15.50
15 663.75	1 000	V	33.30	6.80	12.68	-46.21	40.33	40.10	54.00	13.90
18 060.56	1 000	H	37.20	10.60	12.40	-45.80	44.00	47.80	54.00	6.20
19 715.94	1 000	H	36.60	11.10	12.90	-46.60	44.80	47.70	54.00	6.30
24 563.06	1 000	V	34.90	12.40	14.70	-47.50	45.20	47.30	54.00	6.70
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

[1)] Restricted band.

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802.11b_Middle channel (2 437 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
5 006.25	1 000	H	48.90	-4.10	7.28	-46.34	34.96	44.80	74.00	29.20
10 188.75	1 000	V	46.10	3.60	10.02	-43.91	37.49	49.70	74.00	24.30
16 183.12	1 000	V	44.90	8.20	12.86	-45.37	40.71	53.10	74.00	20.90
18 018.06	1 000	V	44.40	10.60	12.40	-45.80	44.00	55.00	74.00	19.00
19 651.12	1 000	H	45.00	11.10	12.90	-46.60	44.80	56.10	74.00	17.90
24 277.25	1 000	H	43.90	12.00	14.50	-47.50	45.00	55.90	74.00	18.10
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
5 006.25	1 000	H	37.90	-4.10	7.28	-46.34	34.96	33.80	54.00	20.20
10 188.75	1 000	V	35.10	3.60	10.02	-43.91	37.49	38.70	54.00	15.30
16 183.12	1 000	V	33.50	8.20	12.86	-45.37	40.71	41.70	54.00	12.30
18 018.06	1 000	V	37.10	10.60	12.40	-45.80	44.00	47.70	54.00	6.30
19 651.12	1 000	H	36.40	11.10	12.90	-46.60	44.80	47.50	54.00	6.50
24 277.25	1 000	H	35.40	12.00	14.50	-47.50	45.00	47.40	54.00	6.60
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802.11b_Highest channel (2 462 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
2 484.25[1)]	1 000	V	46.50	3.60	15.85	-44.29	32.04	50.10	74.00	23.90
5 246.25	1 000	H	48.50	-3.90	7.47	-46.33	34.96	44.60	74.00	29.40
10 141.87	1 000	H	45.80	3.60	10.00	-43.85	37.45	49.40	74.00	24.60
15 495.00	1 000	V	44.50	6.40	12.64	-46.40	40.16	50.90	74.00	23.10
18 009.56	1 000	H	44.00	10.60	12.40	-45.80	44.00	54.60	74.00	19.40
19 911.44	1 000	H	46.20	11.20	13.00	-46.70	44.90	57.40	74.00	16.60
24 082.81	1 000	H	45.00	11.90	14.40	-47.40	44.90	56.90	74.00	17.10
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
2 484.25[1)]	1 000	V	38.10	3.60	15.85	-44.29	32.04	41.70	54.00	12.30
5 246.25	1 000	H	37.50	-3.90	7.47	-46.33	34.96	33.60	54.00	20.40
10 141.87	1 000	H	35.40	3.60	10.00	-43.85	37.45	39.00	54.00	15.00
15 495.00	1 000	V	33.20	6.40	12.64	-46.40	40.16	39.60	54.00	14.40
18 009.56	1 000	H	37.30	10.60	12.40	-45.80	44.00	47.90	54.00	6.10
19 911.44	1 000	H	36.30	11.20	13.00	-46.70	44.90	47.50	54.00	6.50
24 082.81	1 000	H	35.40	11.90	14.40	-47.40	44.90	47.30	54.00	6.70
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

[1)] Restricted band.

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802.11g_Lowest channel (2 412 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
2 389.75[1)]	1 000	V	61.30	3.50	16.07	-44.50	31.93	64.80	74.00	9.20
5 034.38	1 000	H	48.70	-4.00	7.30	-46.26	34.96	44.70	74.00	29.30
10 085.62	1 000	V	45.90	3.60	9.97	-43.78	37.41	49.50	74.00	24.50
14 833.12	1 000	H	44.70	6.00	12.44	-46.05	39.61	50.70	74.00	23.30
18 029.75	1 000	H	44.90	10.60	12.40	-45.80	44.00	55.50	74.00	18.50
19 832.81	1 000	H	44.80	11.20	13.00	-46.70	44.90	56.00	74.00	18.00
24 537.56	1 000	V	43.50	12.30	14.70	-47.60	45.20	55.80	74.00	18.20
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
2 389.75[1)]	1 000	V	37.10	3.50	16.07	-44.50	31.93	40.60	54.00	13.40
5 034.38	1 000	H	37.90	-4.00	7.30	-46.26	34.96	33.90	54.00	20.10
10 085.62	1 000	V	35.10	3.60	9.97	-43.78	37.41	38.70	54.00	15.30
14 833.12	1 000	H	33.70	6.00	12.44	-46.05	39.61	39.70	54.00	14.30
18 029.75	1 000	H	37.10	10.60	12.40	-45.80	44.00	47.70	54.00	6.30
19 832.81	1 000	H	36.50	11.20	13.00	-46.70	44.90	47.70	54.00	6.30
24 537.56	1 000	V	35.10	12.30	14.70	-47.60	45.20	47.40	54.00	6.60
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

[1)] Restricted band.

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802.11g_Middle channel (2 437 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
4 845.00	1 000	V	48.70	-4.20	7.18	-46.08	34.70	44.50	74.00	29.50
9 663.75	1 000	H	45.50	2.70	9.83	-44.08	36.95	48.20	74.00	25.80
14 953.12	1 000	H	44.60	5.90	12.50	-46.25	39.65	50.50	74.00	23.50
18 042.50	1 000	V	45.70	10.60	12.40	-45.80	44.00	56.30	74.00	17.70
19 715.94	1 000	H	44.90	11.10	12.90	-46.60	44.80	56.00	74.00	18.00
24 134.87	1 000	H	43.80	11.90	14.40	-47.50	45.00	55.70	74.00	18.30
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
4 845.00	1 000	V	38.20	-4.20	7.18	-46.08	34.70	34.00	54.00	20.00
9 663.75	1 000	H	34.70	2.70	9.83	-44.08	36.95	37.40	54.00	16.60
14 953.12	1 000	H	33.80	5.90	12.50	-46.25	39.65	39.70	54.00	14.30
18 042.50	1 000	V	37.20	10.60	12.40	-45.80	44.00	47.80	54.00	6.20
19 715.94	1 000	H	36.50	11.10	12.90	-46.60	44.80	47.60	54.00	6.40
24 134.87	1 000	H	35.40	11.90	14.40	-47.50	45.00	47.30	54.00	6.70
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802.11g_Highest channel (2 462 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
2 484.25[1)]	1 000	V	53.40	3.60	15.85	-44.29	32.04	57.00	74.00	17.00
5 563.13	1 000	H	48.60	-3.70	7.73	-46.39	34.96	44.90	74.00	29.10
10 588.12	1 000	H	46.50	3.20	10.24	-44.84	37.80	49.70	74.00	24.30
15 930.00	1 000	V	44.10	7.50	12.74	-45.83	40.59	51.60	74.00	22.40
18 004.25	1 000	H	44.70	10.60	12.40	-45.80	44.00	55.30	74.00	18.70
19 741.44	1 000	H	44.90	11.10	12.90	-46.70	44.90	56.00	74.00	18.00
24 706.50	1 000	H	43.80	12.60	14.80	-47.50	45.30	56.40	74.00	17.60
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
2 484.25[1)]	1 000	V	35.90	3.60	15.85	-44.29	32.04	39.50	54.00	14.50
5 563.13	1 000	H	36.90	-3.70	7.73	-46.39	34.96	33.20	54.00	20.80
10 588.12	1 000	H	36.00	3.20	10.24	-44.84	37.80	39.20	54.00	14.80
15 930.00	1 000	V	32.50	7.50	12.74	-45.83	40.59	40.00	54.00	14.00
18 004.25	1 000	H	37.10	10.60	12.40	-45.80	44.00	47.70	54.00	6.30
19 741.44	1 000	H	36.30	11.10	12.90	-46.70	44.90	47.40	54.00	6.60
24 706.50	1 000	H	34.70	12.60	14.80	-47.50	45.30	47.30	54.00	6.70
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

[1)] Restricted band.

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802.11n HT20_Lowest channel (2 412 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
2 389.50[1)]	1 000	V	59.00	3.50	16.07	-44.50	31.93	62.50	74.00	11.50
5 812.50	1 000	H	48.10	-3.60	7.94	-46.50	34.96	44.50	74.00	29.50
10 588.12	1 000	V	46.80	3.20	10.24	-44.84	37.80	50.00	74.00	24.00
15 817.50	1 000	V	44.00	7.20	12.72	-46.00	40.48	51.20	74.00	22.80
18 020.19	1 000	V	46.10	10.60	12.40	-45.80	44.00	56.70	74.00	17.30
19 754.19	1 000	V	44.70	11.10	13.00	-46.80	44.90	55.80	74.00	18.20
24 070.06	1 000	H	43.60	11.90	14.40	-47.40	44.90	55.50	74.00	18.50
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
2 389.50[1)]	1 000	V	37.60	3.50	16.07	-44.50	31.93	41.10	54.00	12.90
5 812.50	1 000	H	37.00	-3.60	7.94	-46.50	34.96	33.40	54.00	20.60
10 588.12	1 000	V	35.90	3.20	10.24	-44.84	37.80	39.10	54.00	14.90
15 817.50	1 000	V	33.00	7.20	12.72	-46.00	40.48	40.20	54.00	13.80
18 020.19	1 000	V	37.30	10.60	12.40	-45.80	44.00	47.90	54.00	6.10
19 754.19	1 000	V	36.60	11.10	13.00	-46.80	44.90	47.70	54.00	6.30
24 070.06	1 000	H	35.70	11.90	14.40	-47.40	44.90	47.60	54.00	6.40
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

[1)] Restricted band.

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802. 11n HT20_Middle channel (2 437 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
4 689.38	1 000	H	49.10	-4.50	7.09	-46.03	34.44	44.60	74.00	29.40
10 190.62	1 000	V	46.00	3.60	10.02	-43.91	37.49	49.60	74.00	24.40
15 050.62	1 000	V	44.70	5.90	12.54	-46.36	39.72	50.60	74.00	23.40
18 028.69	1 000	H	44.70	10.60	12.40	-45.80	44.00	55.30	74.00	18.70
19 793.50	1 000	H	45.30	11.20	13.00	-46.70	44.90	56.50	74.00	17.50
24 018.00	1 000	V	45.10	11.90	14.30	-47.30	44.90	57.00	74.00	17.00
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
4 689.38	1 000	H	38.50	-4.50	7.09	-46.03	34.44	34.00	54.00	20.00
10 190.62	1 000	V	35.10	3.60	10.02	-43.91	37.49	38.70	54.00	15.30
15 050.62	1 000	V	33.00	5.90	12.54	-46.36	39.72	38.90	54.00	15.10
18 028.69	1 000	H	37.20	10.60	12.40	-45.80	44.00	47.80	54.00	6.20
19 793.50	1 000	H	36.40	11.20	13.00	-46.70	44.90	47.60	54.00	6.40
24 018.00	1 000	V	35.60	11.90	14.30	-47.30	44.90	47.50	54.00	6.50
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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802.11n HT20_Highest channel (2 462 ㎒)

Frequency [㎒]	Receiver Bandwidth [㎑]	Pol. [V/H]	Reading [dB(㎶)]	Factor [dB]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Result [dB(㎶/m)]	Limit [dB(㎶/m)]	Margin [dB]
Peak DATA. Emissions above 1 ㎓										
2 485.00[1)]	1 000	V	52.70	3.60	15.84	-44.28	32.04	56.30	74.00	17.70
5 268.75	1 000	H	48.40	-3.90	7.49	-46.35	34.96	44.50	74.00	29.50
9 973.12	1 000	V	45.10	3.50	9.91	-43.72	37.31	48.60	74.00	25.40
14 563.12	1 000	H	44.30	6.70	12.29	-45.09	39.50	51.00	74.00	23.00
18 077.56	1 000	V	45.30	10.60	12.40	-45.80	44.00	55.90	74.00	18.10
19 741.44	1 000	V	45.00	11.10	12.90	-46.70	44.90	56.10	74.00	17.90
24 537.56	1 000	H	42.90	12.30	14.70	-47.60	45.20	55.20	74.00	18.80
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-
Average DATA. Emissions above 1 ㎓										
2 485.00[1)]	1 000	V	34.30	3.60	15.84	-44.28	32.04	37.90	54.00	16.10
5 268.75	1 000	H	37.60	-3.90	7.49	-46.35	34.96	33.70	54.00	20.30
9 973.12	1 000	V	34.00	3.50	9.91	-43.72	37.31	37.50	54.00	16.50
14 563.12	1 000	H	33.60	6.70	12.29	-45.09	39.50	40.30	54.00	13.70
18 077.56	1 000	V	37.10	10.60	12.40	-45.80	44.00	47.70	54.00	6.30
19 741.44	1 000	V	36.40	11.10	12.90	-46.70	44.90	47.50	54.00	6.50
24 537.56	1 000	H	35.20	12.30	14.70	-47.60	45.20	47.50	54.00	6.50
Above 25 000.00	**Not Detected**	-	-	-	-	-	-	-	-	-

[1)] Restricted band.

NOTE 1. Factor = Cable loss + Amp gain + Antenna factor

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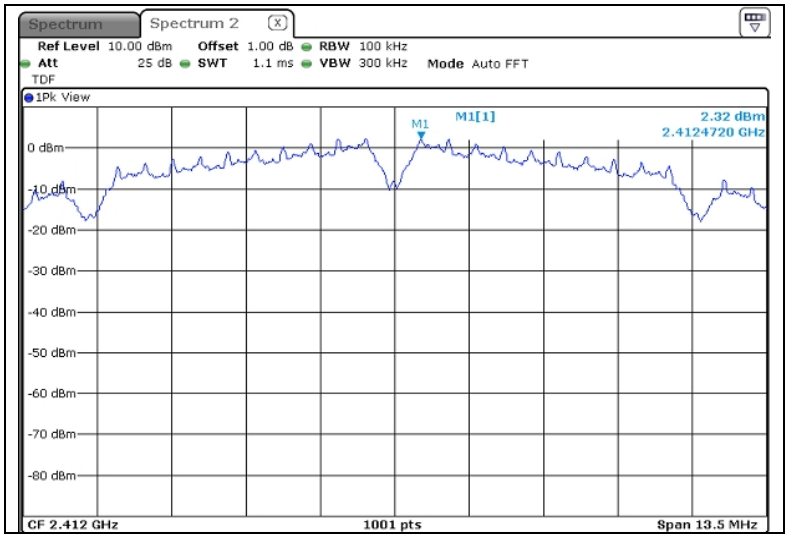
5.7.4 Test Plot

Figure 3. Plot of the Band-edge & Conducted Spurious Emissions

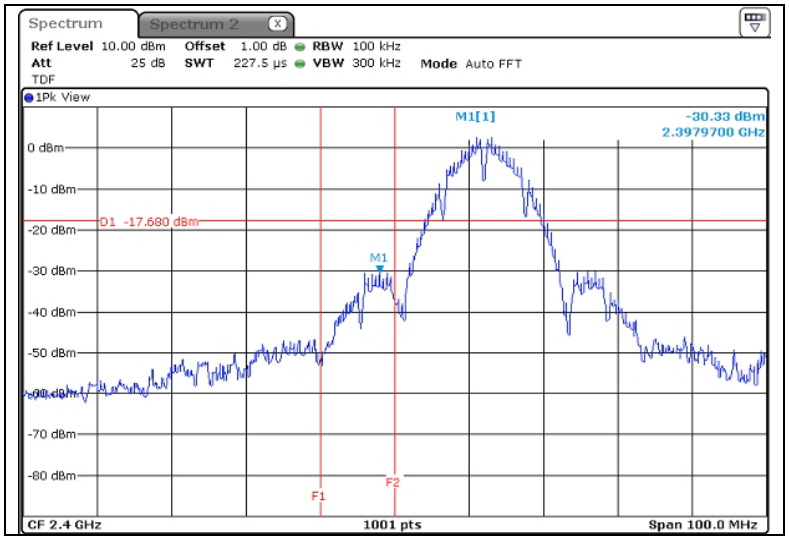
- 802.11b

Lowest Channel (2 412 ㎒)

Reference



Band-edge



- Result of 2 400.0 ㎒ (F1:2 390 ㎒, F2:2 400 ㎒)

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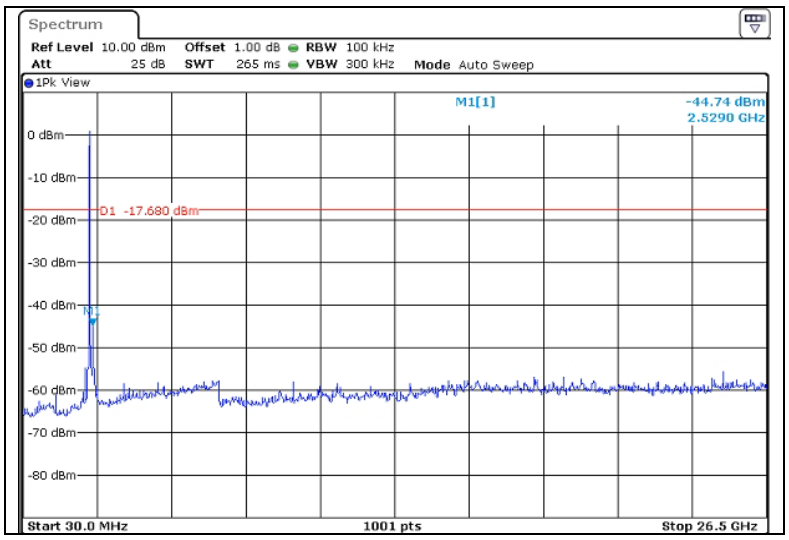
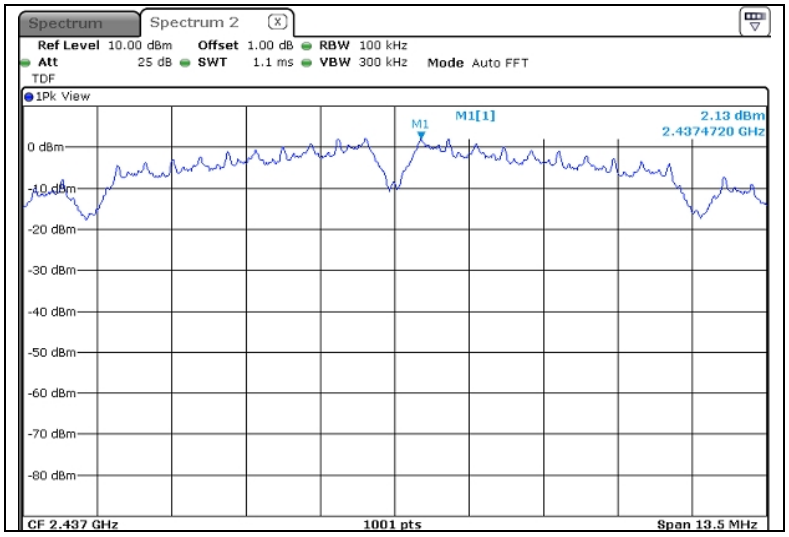
Conducted Spurious Emissions



Middle Channel (2 437 ㎒)

Reference



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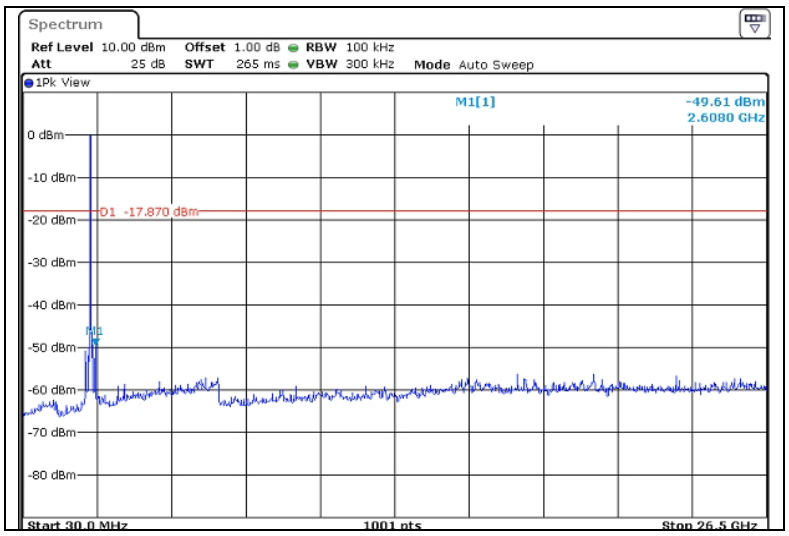
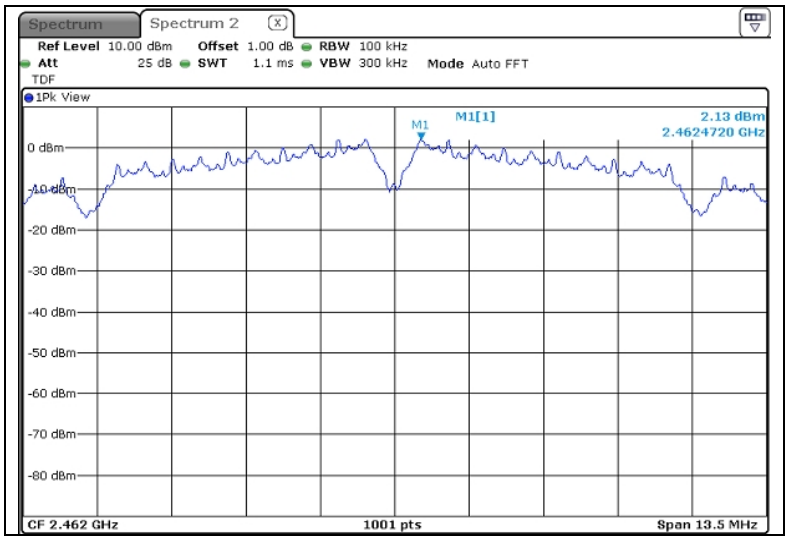
Conducted Spurious Emissions



Highest Channel (2 462 ㎒)

Reference



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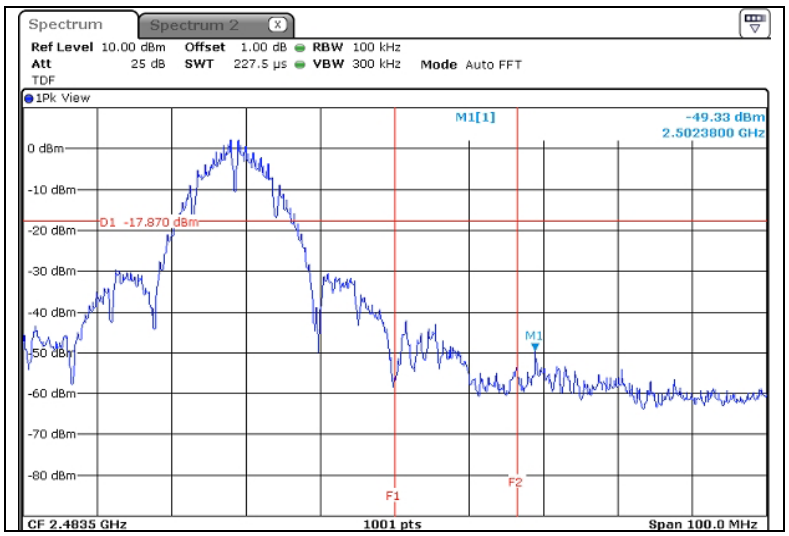
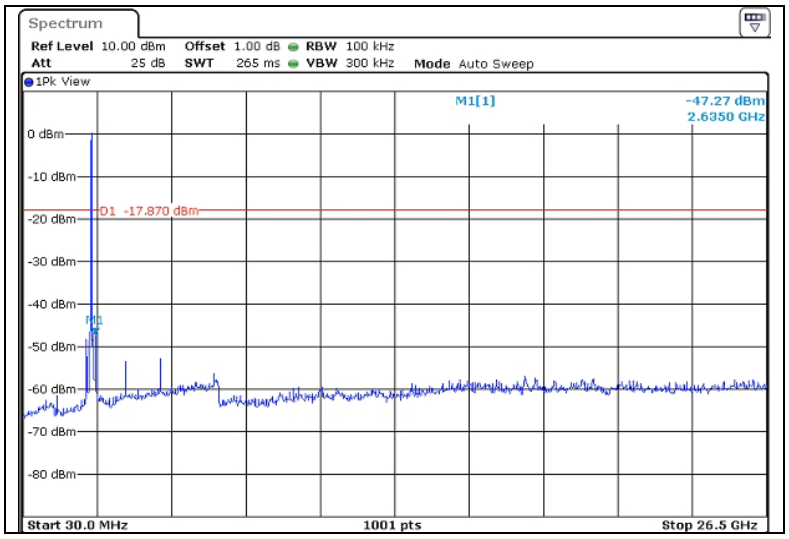
Band-edge



- Result of 2 483.5 ㎒ (F1:2 483.5 ㎒, F2:2 500 ㎒)

Conducted Spurious Emissions



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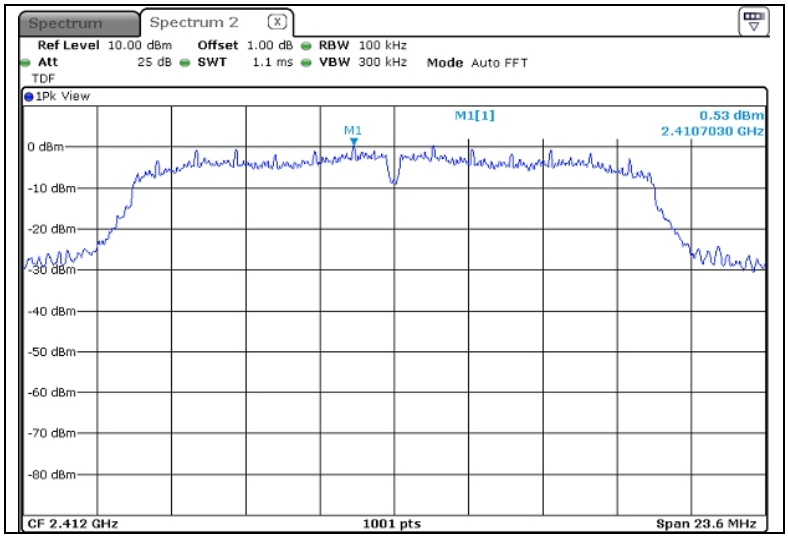
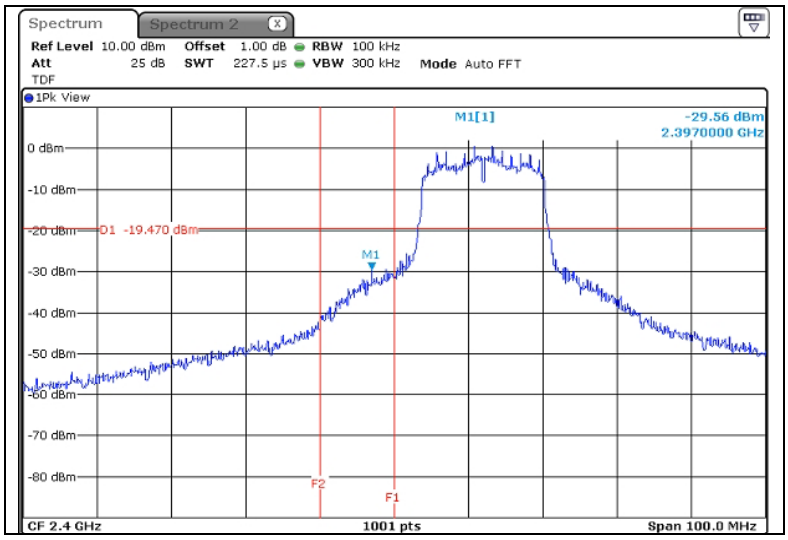
- 802.11g

Lowest Channel (2 412 ㎒)

Reference



Band-edge



- Result of 2 400.0 ㎒ (F1:2 390 ㎒, F2:2 400 ㎒)

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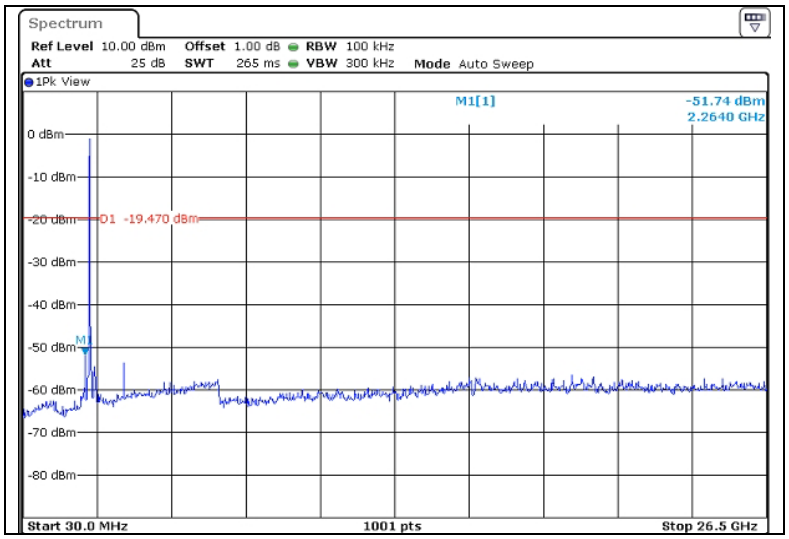
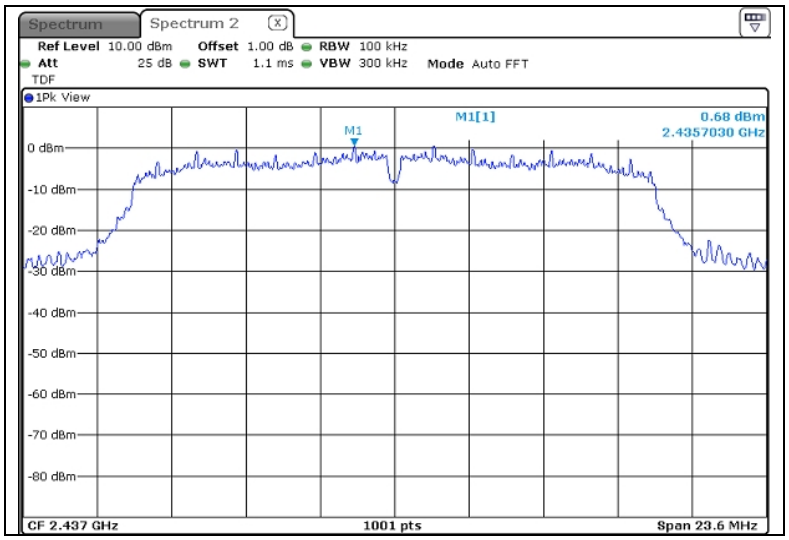
Conducted Spurious Emissions



Middle Channel (2 437 ㎒)

Reference



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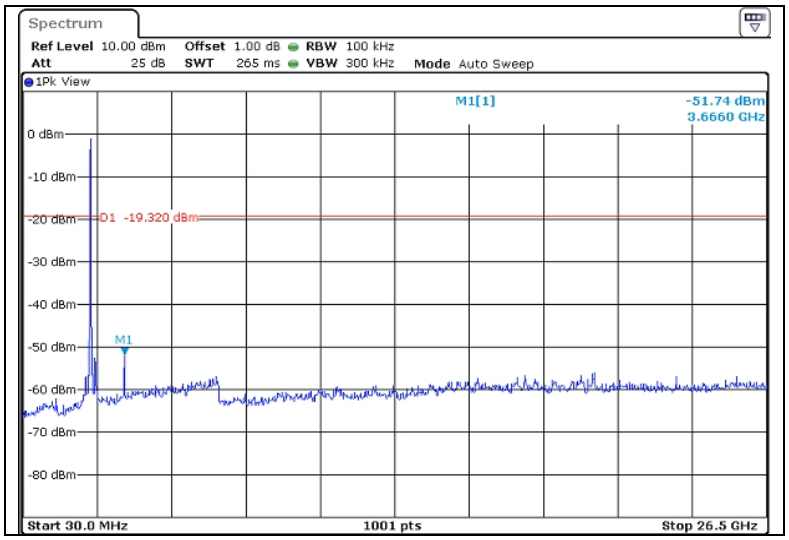
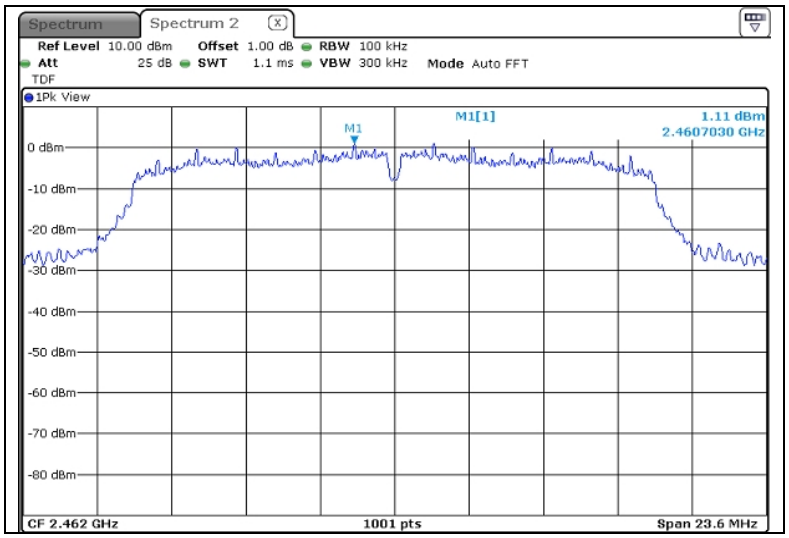
Conducted Spurious Emissions



Highest Channel (2 462 ㎒)

Reference



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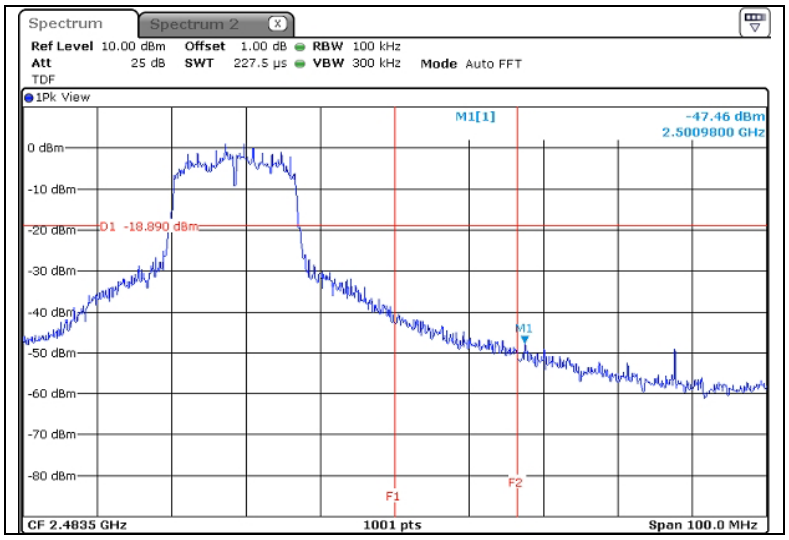
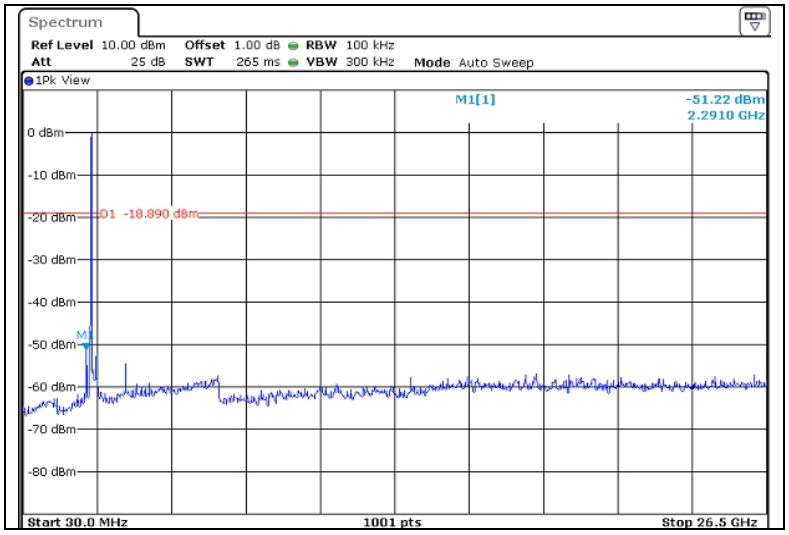
Band-edge



- Result of 2 483.5 ㎒ (F1:2 483.5 ㎒, F2:2 500 ㎒)

Conducted Spurious Emissions



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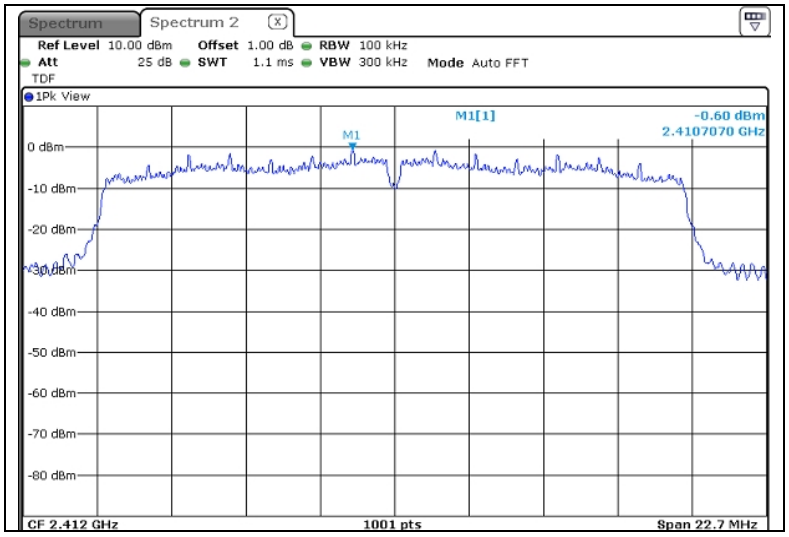
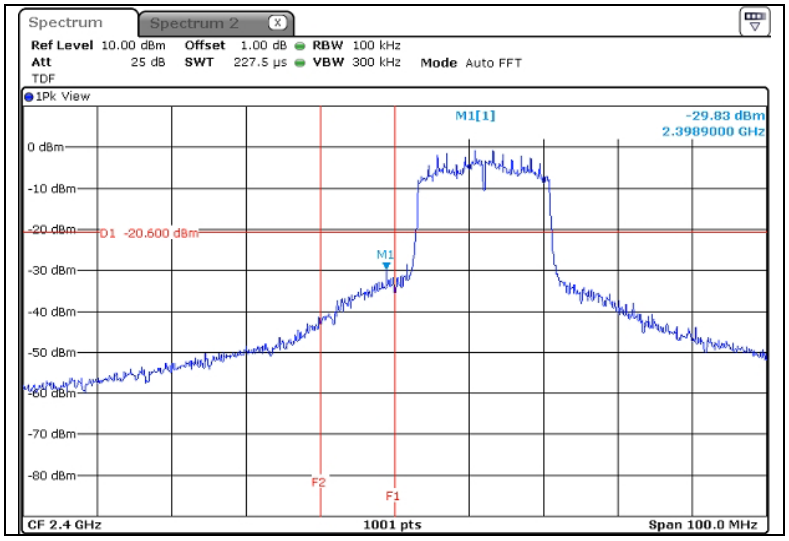
- 802.11n HT20

Lowest Channel (2 412 ㎒)

Reference



Band-edge



- Result of 2 400.0 ㎒ (F1:2 390 ㎒, F2:2 400 ㎒)

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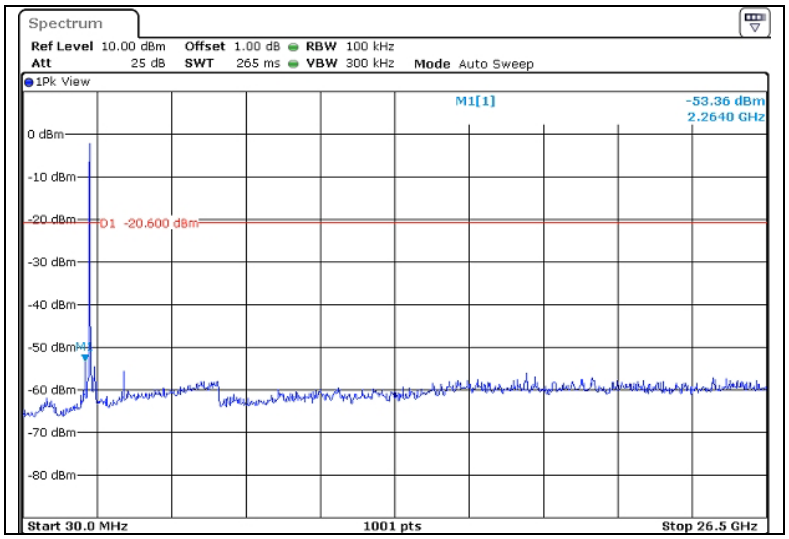
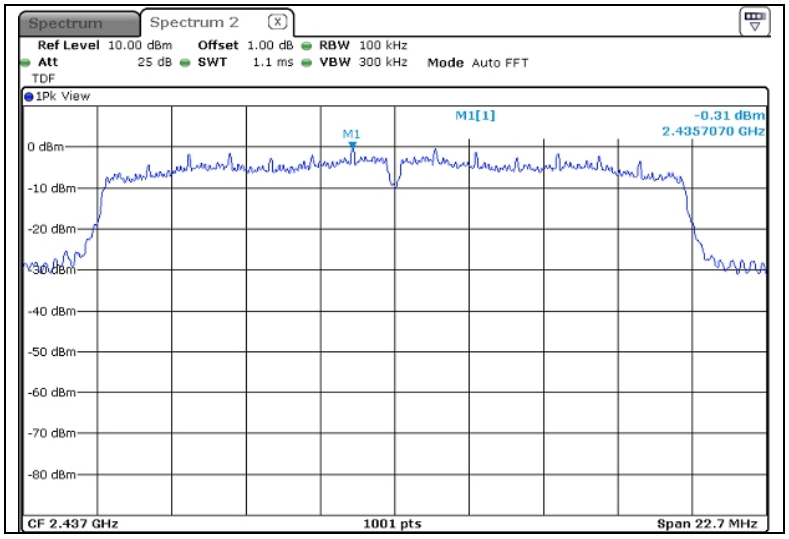
Conducted Spurious Emissions



Middle Channel (2 437 ㎒)

Reference



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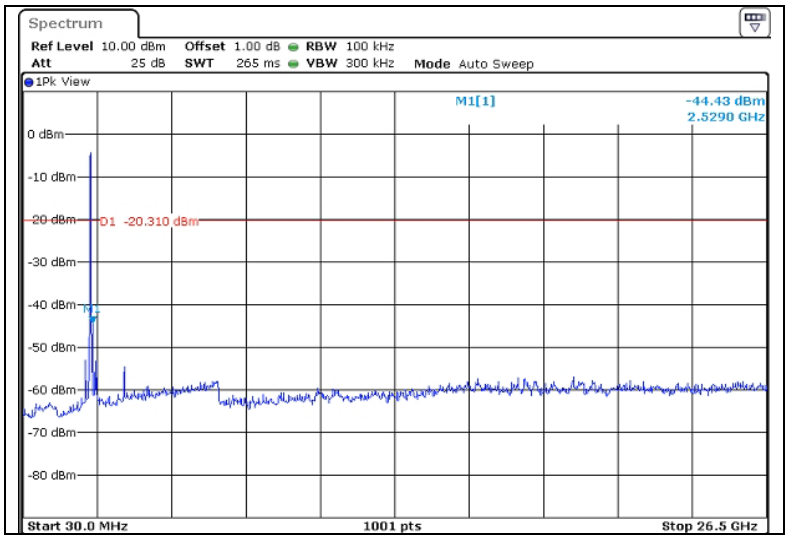
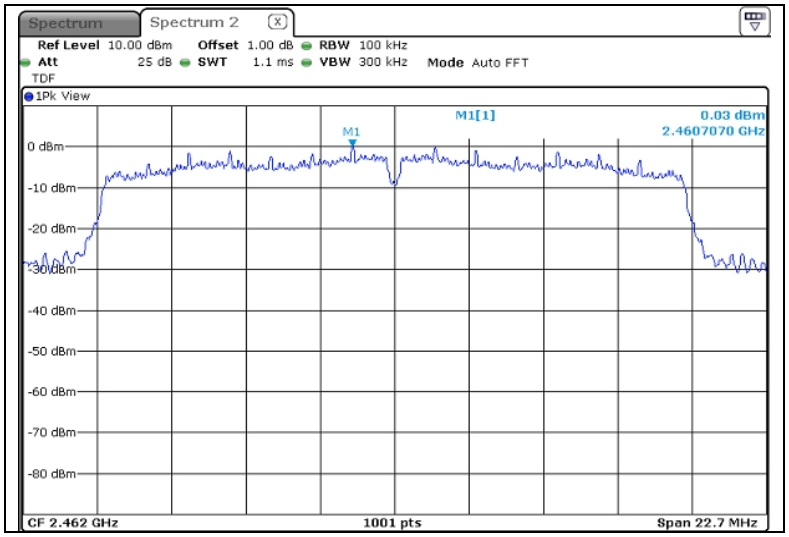
Conducted Spurious Emissions



Highest Channel (2 462 ㎒)

Reference



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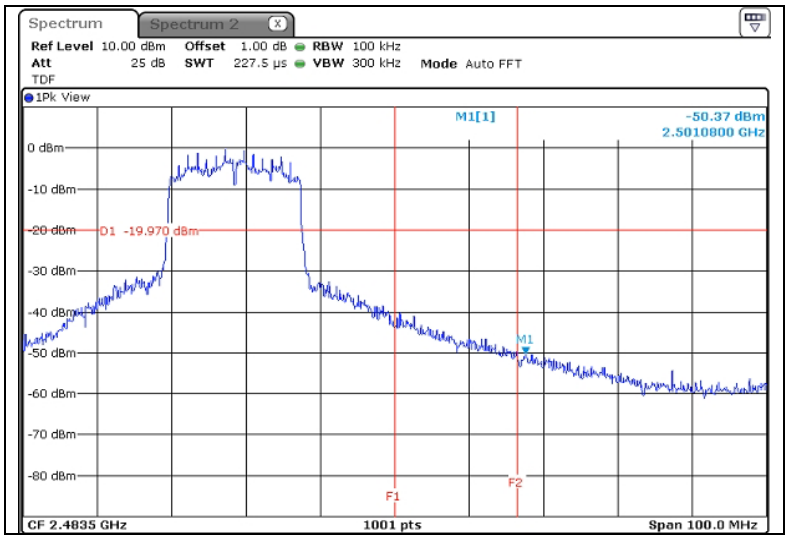
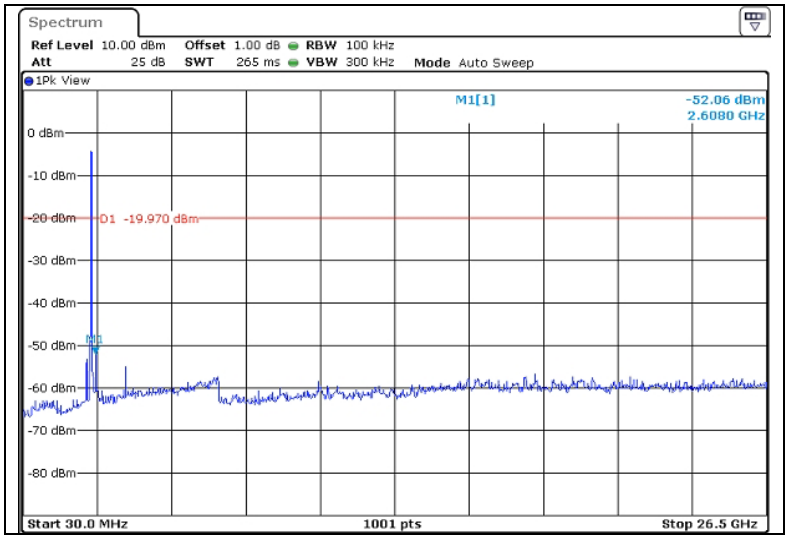
Band-edge



- Result of 2 483.5 ㎒ (F1:2 483.5 ㎒, F2:2 500 ㎒)

Conducted Spurious Emissions



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6. Test equipment used for test

	Description	Manufacturer	Model No.	Serial No.	Next Cal Date.
■	Spectrum Analyzer	R & S	FSV40	100989	17.01.07
■	DC Power Supply	Agilent	E3632A	KR75304571	17.07.07
■	Signal Generator	R & S	SMR40	100007	17.06.02
■	Wideband Power Sensor	R & S	NRP-Z81	100677	17.01.08
■	EMI TEST RECEIVER	R & S	ESCI	100710	17.02.26
■	Bi-Log Antenna	SCHWARZBECK	VULB 9163	583	18.06.27
■	Amplifier	SONOMA INSTRUMENT	310N	186280	17.04.07
■	Attenuator	SCHWARZBECK	DGA9552N	BU2404	17.04.08
■	Horn antenna	ETS.lindgren	3116	00086635	17.05.03
■	DOUBLE RIDGED HORN ANTENNA	ETS.lindgren	3117-PA	OO161083	16.11.12
■	AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000 -33-8P	2000997	17.08.23
■	Broadband Preamplifier	SCHWARZBECK	BBV9718	9718-233	17.01.09
■	LOOP Antenna	R & S	HFH2-Z2	100355	18.03.03
■	Antenna Mast	MATURO	AM4.0	079/3440509	-
■	Turn Table	MATURO	CO2000-SOFT	-	-
■	Highpass Filter	Wainwright InstrumentsGmbH	WHKX3.0/ 18G-12SS	44	17.02.01
■	Vector Signal Generator	R & S	SMBV100A	257566	17.01.07
■	Cable	HUBER+SUHNER	SUCOFLEX 102	MY3565/2	-
■	Cable	MWX221-DMSDMS	JUNFLON	J1012214	-
■	Cable	RadiAll	TESTPRO 3	-	-
■	Cable	HUBER+SUHNER	SUCOFLEX 102	MY3566/2	-

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