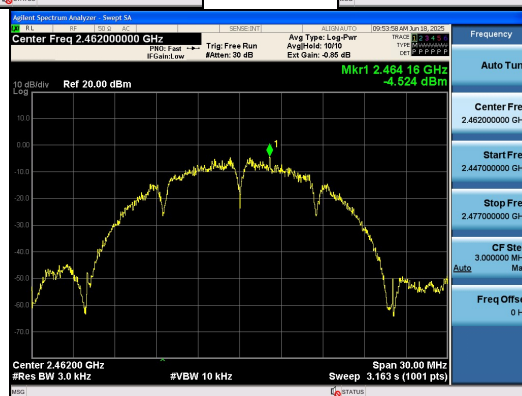
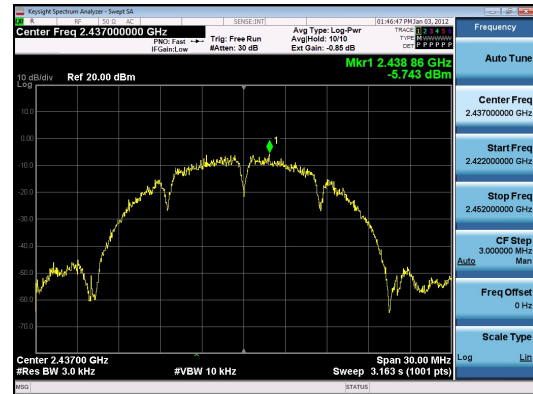




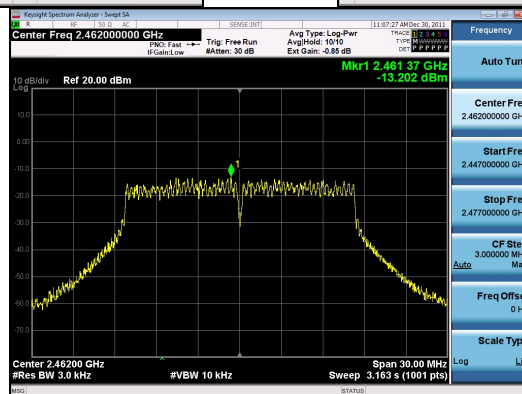
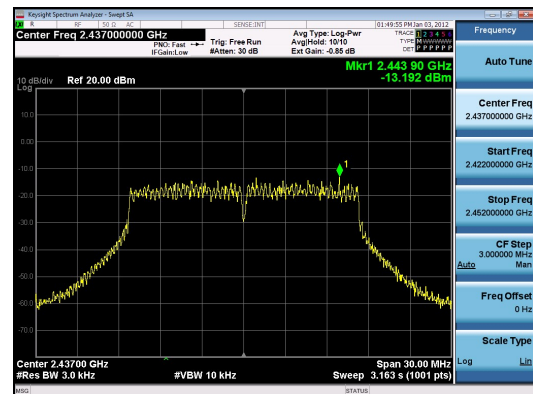
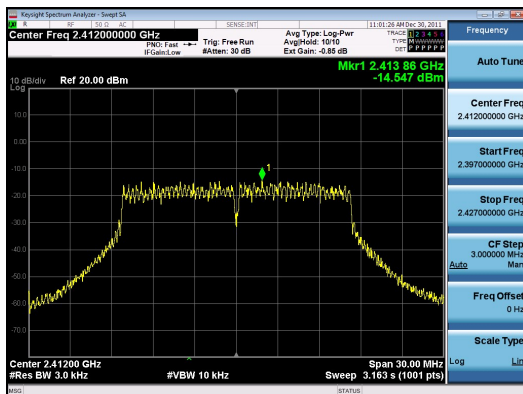
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802.11b



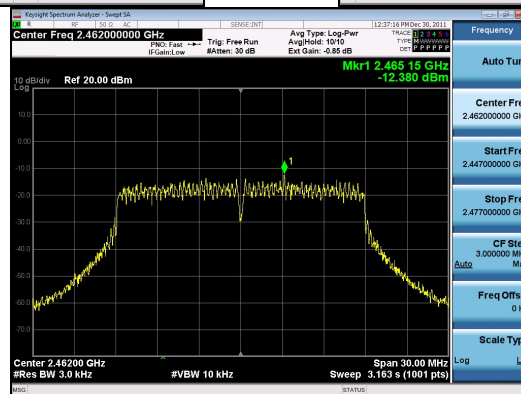
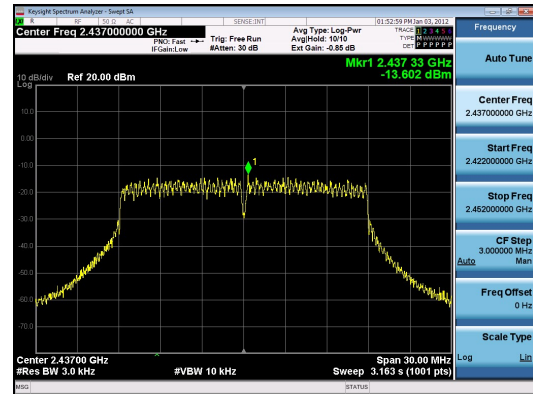
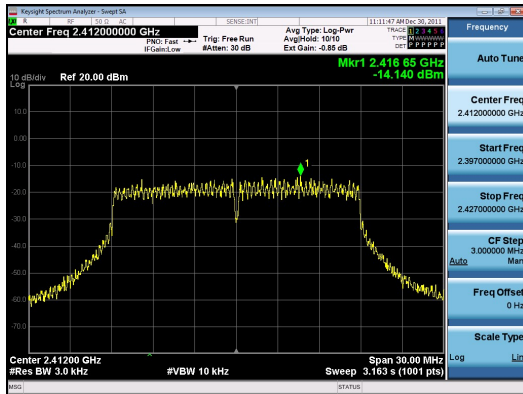
802.11g



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802.11n_HT20

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4.4 Conducted Spurious emission

Test Procedures

KDB 558074 - Section 8.5
ANSI C63.10-2013 - Section 11.11.3
RSS-Gen - Section 6.13

The bandwidth at 20dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz
- b) VBW $\geq 3 \times$ RBW
- c) Detector = peak
- d) Sweep time = auto couple
- e) Trace mode= max hold
- f) Allow trace to fully stabilize
- g) Use the peak marker function to determine the maximum amplitude level.

Limit :

Emission level < 30 dBc

Test Data: Complies

- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 30dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.

See next pages for actual measured spectrum plots.



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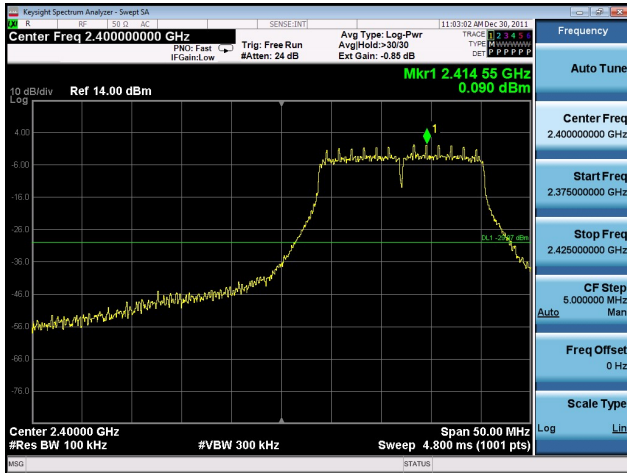
802.11b



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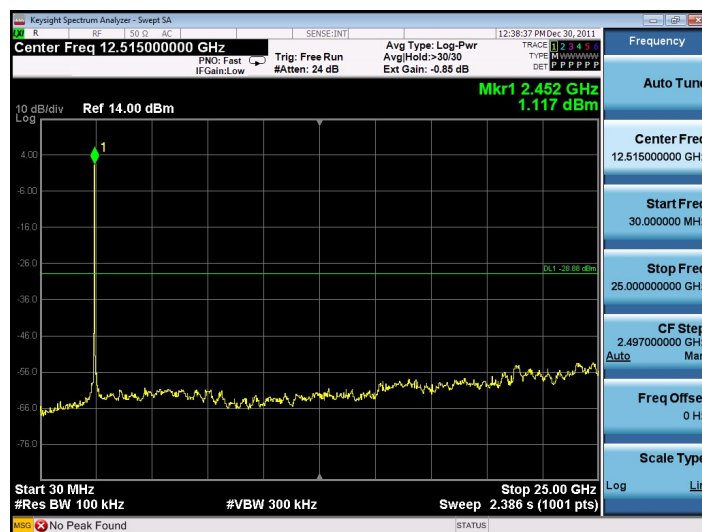
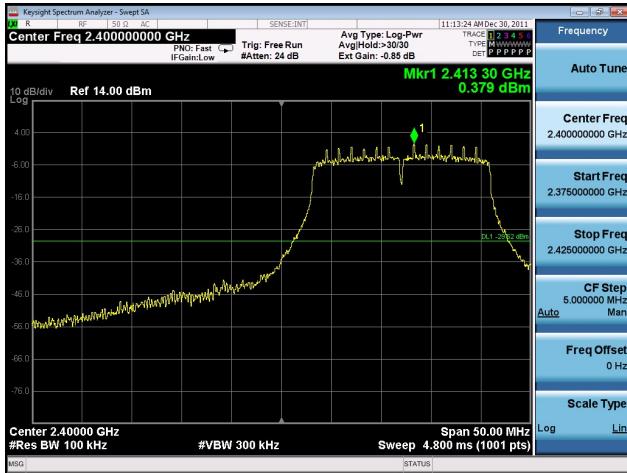
802.11g



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802.11n-HT20

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4.5 Radiated Emission

Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

KDB 558074 - Section 8.5, 8.6
ANSI C63.10-2013 - Section 11.11, 11.12
RSS-Gen - Section 6.13

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

- a) RBW = 100 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHz
b) VBW $\geq$ RBW
c) Detector = CISPR Quasi-peak
d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = Peak
d) Sweep time = auto
e) Trace mode = max hold

- Average (duty cycle $\geq 98\%$)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = RMS
d) Sweep time = auto
e) Averaging type = power (i.e., RMS)
f) Trace mode = average (at least 100 traces)

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- Average (duty cycle < 98%, duty cycle variations are less than $\pm 2\%$)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle.

If power averaging (RMS) mode, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

Test mode	Duty Cycle Factor
802.11b	0.04 dB
802.11g	0.26 dB
802.11n_HT20	0.29 dB

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Limit :

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Table 1. Restricted Frequency Bands

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), 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 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 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.

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FCC Part 15 § 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 :

Table 2. General Field Strength Limits for Licence-Exempt Transmitters

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

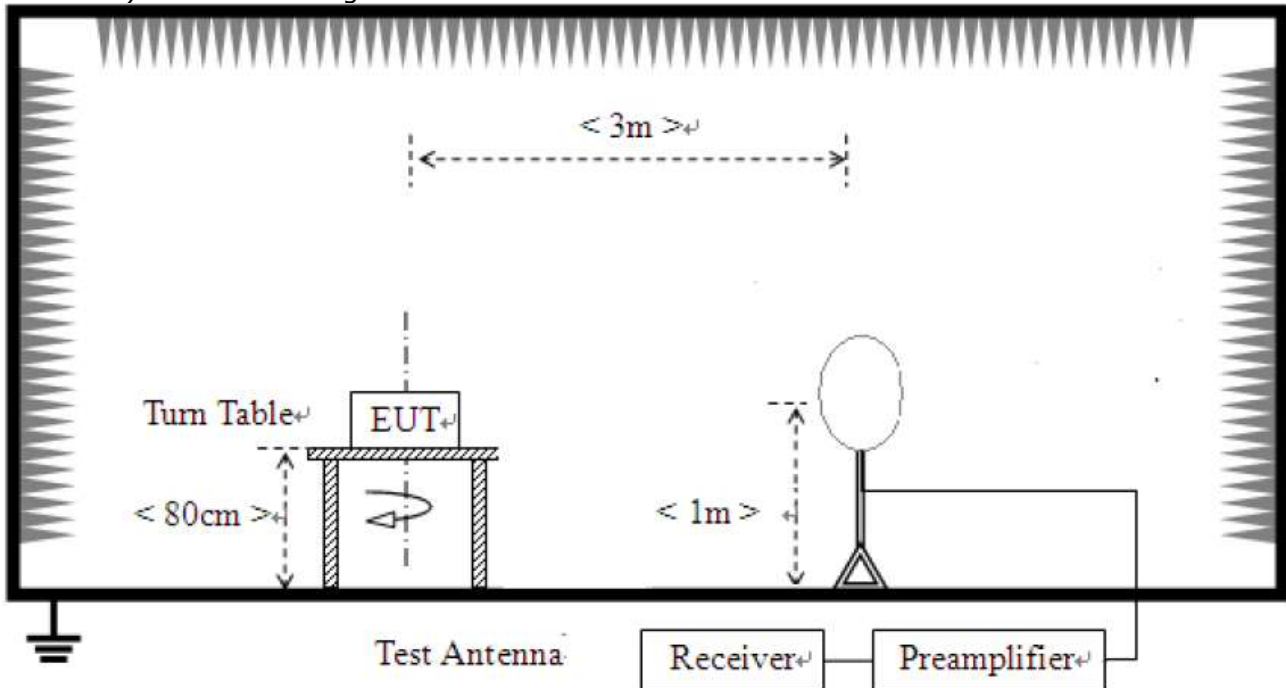
Test Mode

We have done all test mode.

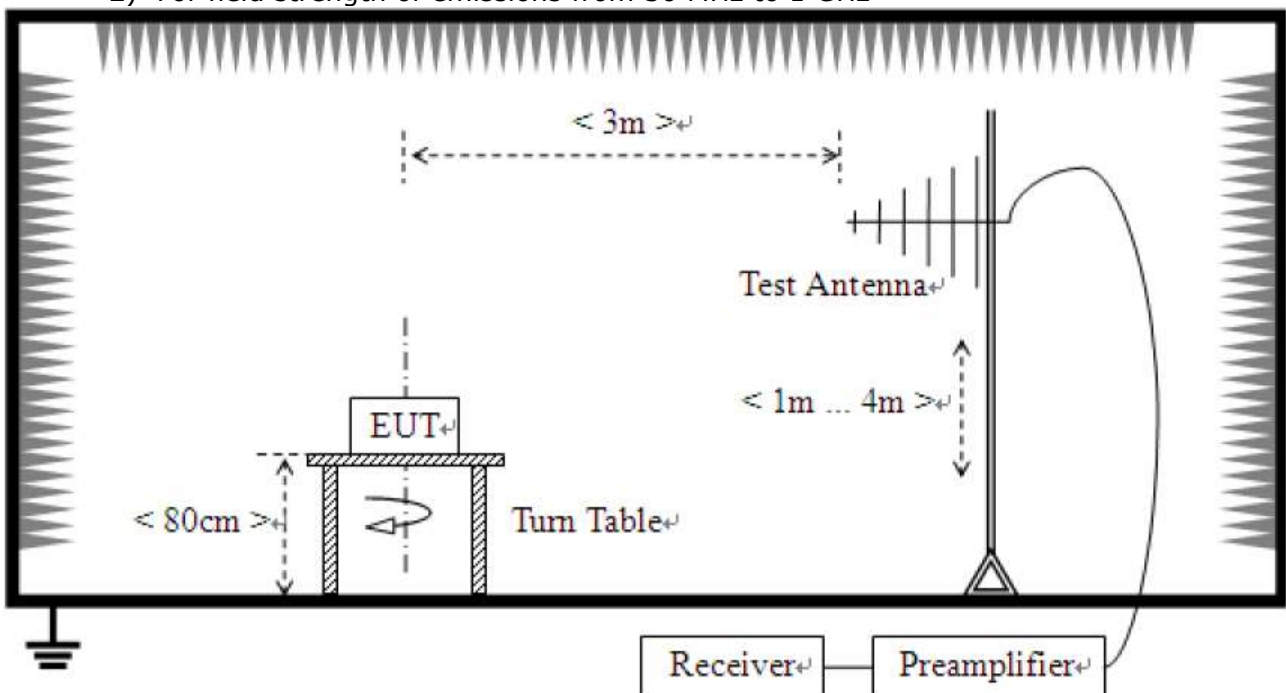
So the results are only attached worst cases.

Test Setup:

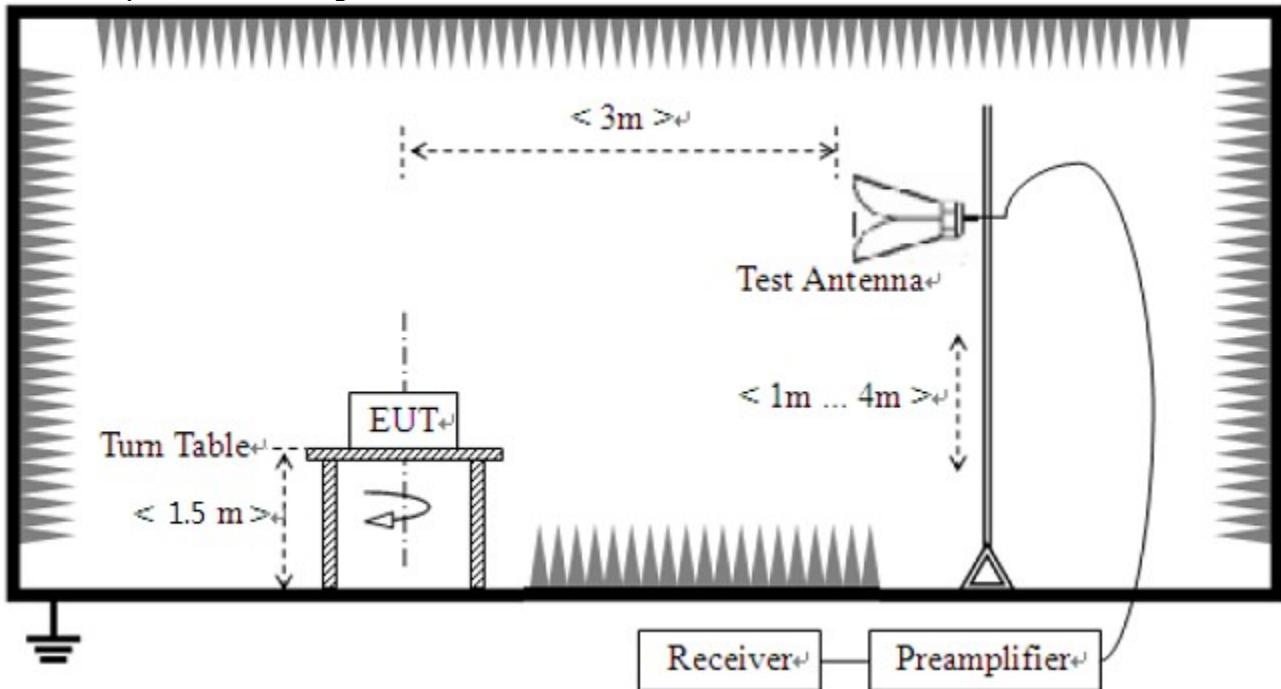
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz





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Test results

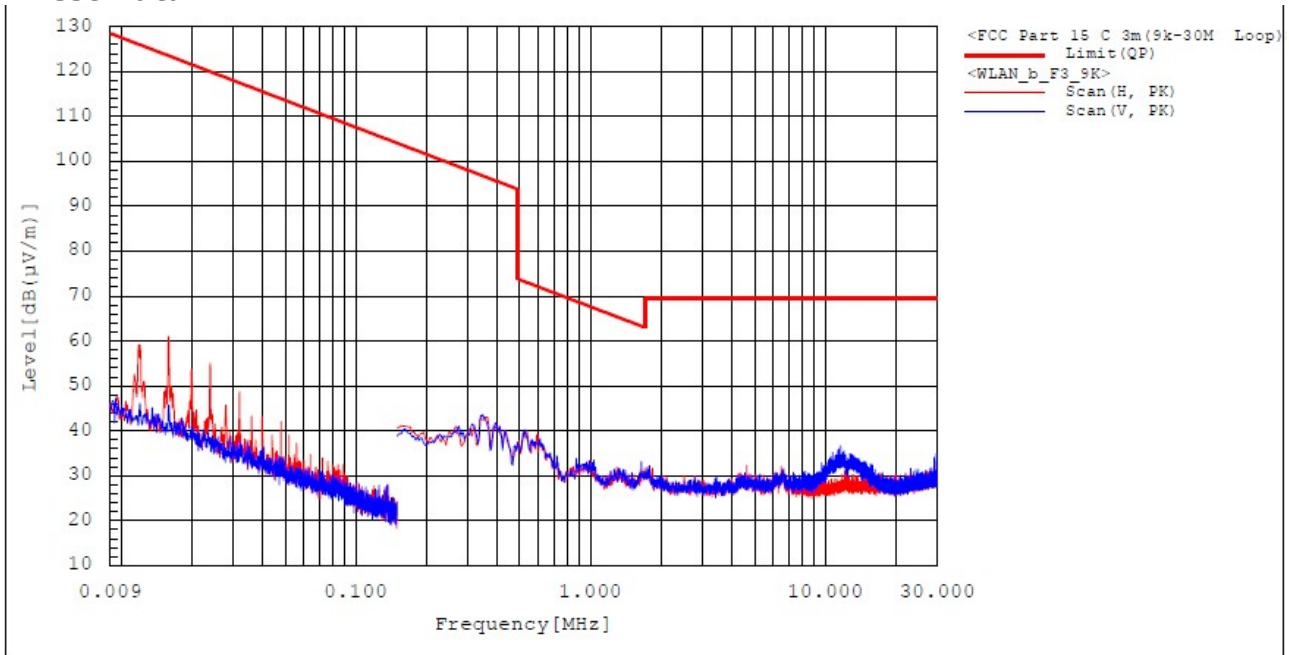
1) 9 kHz to 30 MHz

Test mode : Transmitter, 802.11b High channel (Worst Case)

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. This data is the Peak(PK) value.



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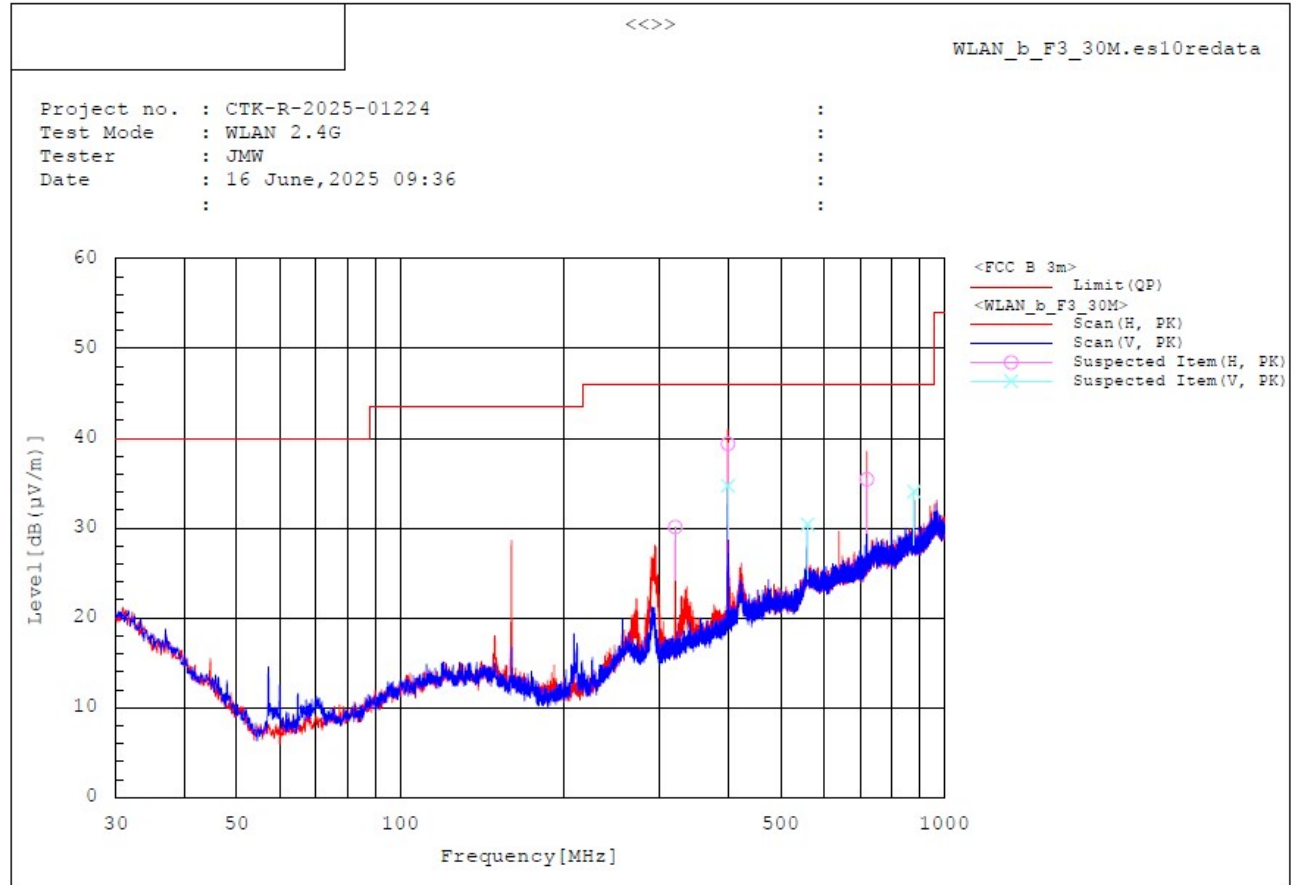
2) 30 MHz to 1 GHz

Test mode : Transmitter, 802.11b High channel (Worst Case)

The requirements are:

☒ Complies

Test Data



Spectrum Selection

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP-PK [dB]	Height [cm]	Angle [deg]
1	320.030	H	39.8	-9.4	30.1	46.0	15.9	100.1	219.8
2	400.055	V	41.5	-6.8	34.7	46.0	11.3	99.9	74.4
3	400.152	H	46.2	-6.8	39.4	46.0	6.6	100.1	169.2
4	560.396	V	31.9	-1.5	30.4	46.0	15.6	99.9	359.1
5	720.252	H	35.2	0.2	35.4	46.0	10.6	100.1	301.5
6	880.496	V	30.7	3.4	34.1	46.0	11.9	99.9	256.2

Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.



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3) above 1 GHz

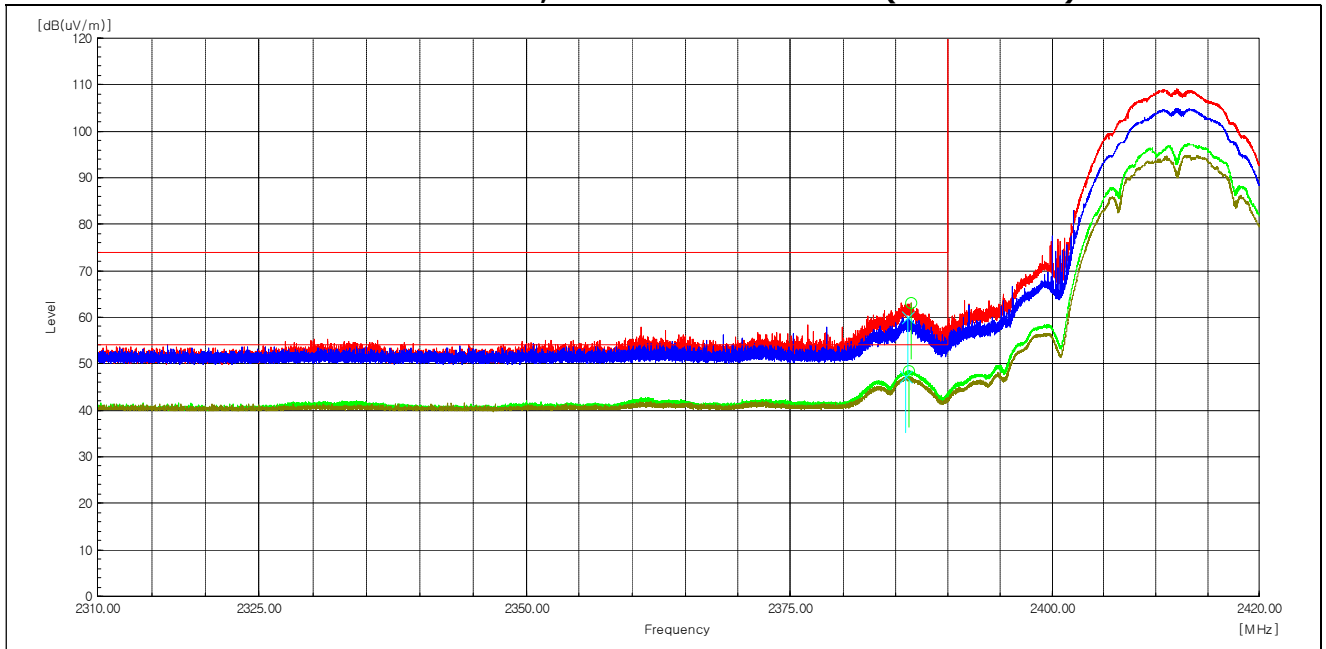
3.1) 2 310 Mhz to 2 390 MHz

The requirements are:

☒ Complies

Test Data

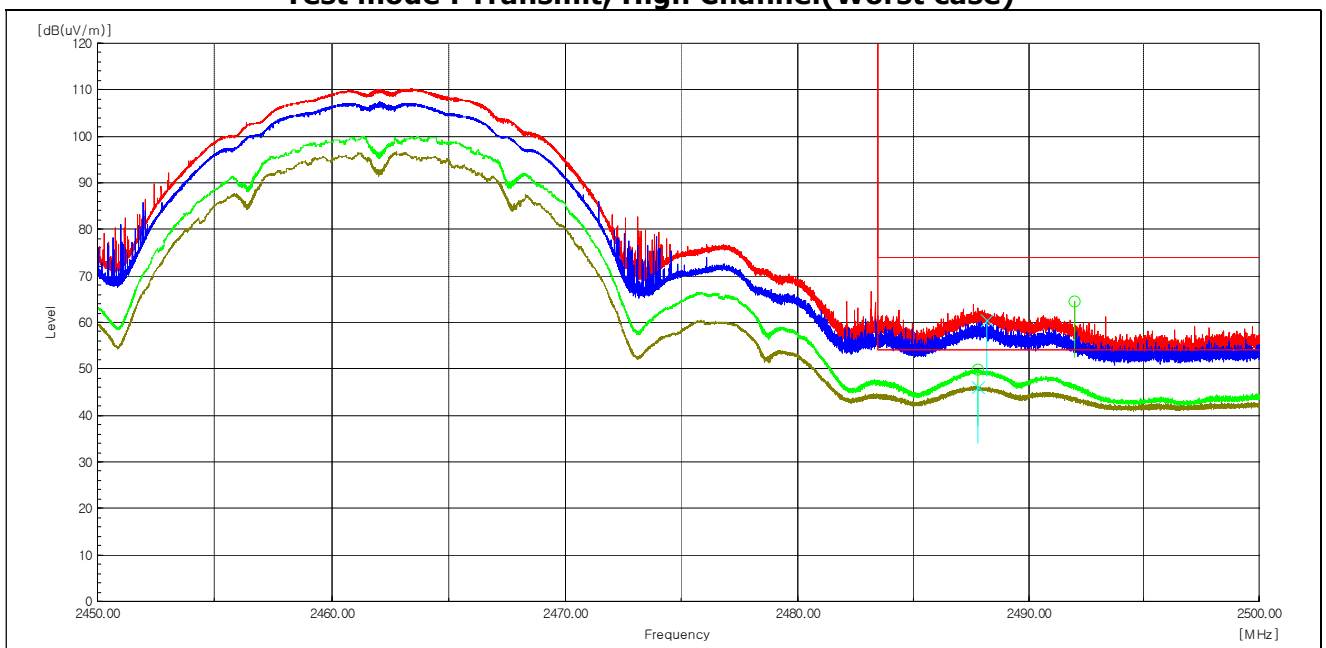
Test mode : Transmit, 802.11b Low Channel(Worst case)



Radiated Restricted Band Edge Plot

3.2) 2 483.5 MHz to 2 500 MHz

Test mode : Transmit, High Channel(Worst case)



Radiated Restricted Band Edge Plot



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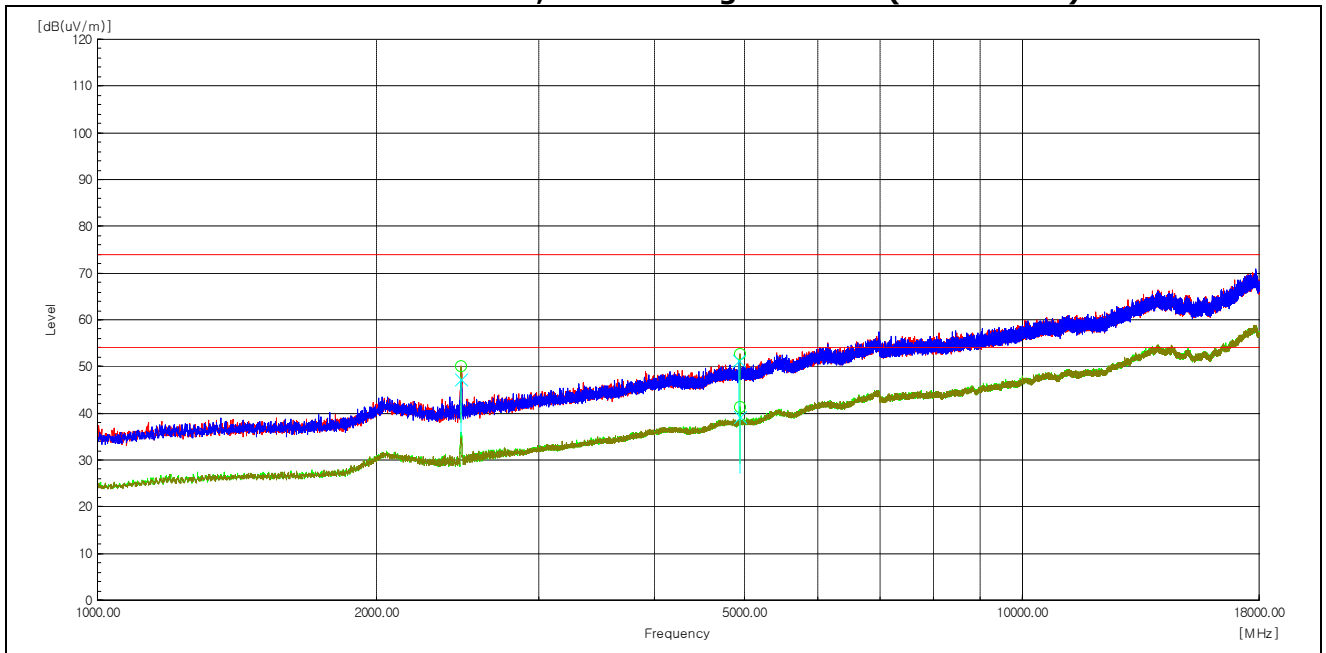
3.3) 1 GHz to 18 GHz

The requirements are:

☒ Complies

Test Data

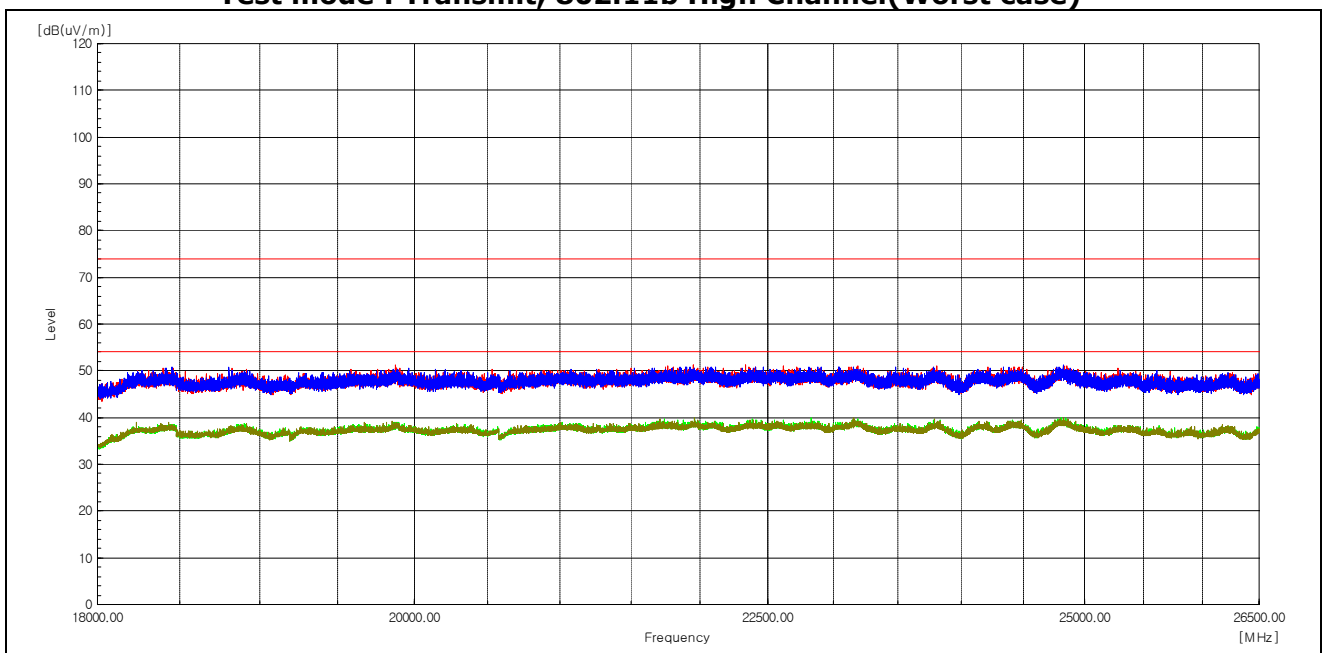
Test mode : Transmit, 802.11b High Channel(Worst case)



3.4) 18 GHz to 26.5 GHz

Test Data

Test mode : Transmit, 802.11b High Channel(Worst case)



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Test mode : Transmitter (802.11b)**Lowest channel (2 412 MHz)**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
2 386.5	H	67.6	-4.6	-----	63.0	-----	74.0	-----	11.0	-----	Peak
2 386.3	H	53.1	-4.6	0.04	-----	48.5	-----	54.0	-----	5.5	Average
2 386.2	V	64.5	-4.6	-----	59.9	-----	74.0	-----	14.1	-----	Peak
2 386.0	V	51.8	-4.6	0.04	-----	47.2	-----	54.0	-----	6.8	Average
4 823.7	H	52.6	3.4	-----	56.0	-----	74.0	-----	18.0	-----	Peak
4 823.7	H	42.0	3.4	0.04	-----	45.4	-----	54.0	-----	8.6	Average
4 823.7	V	50.5	3.4	-----	53.9	-----	74.0	-----	20.1	-----	Peak
4 823.7	V	37.9	3.4	0.04	-----	41.3	-----	54.0	-----	12.7	Average

Middle channel (2 437 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
4 874.3	H	49.6	3.5	-----	53.1	-----	74.0	-----	20.9	-----	Peak
4 874.3	H	39.2	3.5	0.04	-----	42.7	-----	54.0	-----	11.3	Average
4 874.3	V	48.2	3.5	-----	51.7	-----	74.0	-----	22.3	-----	Peak
4 874.3	V	36.3	3.5	0.04	-----	39.8	-----	54.0	-----	14.2	Average

Highest channel (2 462 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
2 487.6	H	67.5	-4.2	-----	63.3	-----	74.0	-----	10.7	-----	Peak
2 487.8	H	52.9	-4.2	0.04	-----	48.7	-----	54.0	-----	5.3	Average
2 483.7	V	64.3	-4.2	-----	60.1	-----	74.0	-----	13.9	-----	Peak
2 487.8	V	49.5	-4.2	0.04	-----	45.3	-----	54.0	-----	8.7	Average
4 924.1	H	48.9	3.8	-----	52.7	-----	74.0	-----	21.3	-----	Peak
4 924.1	H	37.5	3.8	0.04	-----	41.3	-----	54.0	-----	12.7	Average
4 929.8	V	47.5	3.7	-----	51.2	-----	74.0	-----	22.8	-----	Peak
4 924.1	V	35.3	3.8	0.04	-----	39.1	-----	54.0	-----	14.9	Average

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor) + Duty Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.

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Test mode : Transmitter (802.11g)**Lowest channel (2 412 MHz)**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
2 389.9	H	69.5	-4.6	-----	64.9	-----	74.0	-----	9.1	-----	Peak
2 389.9	H	49.6	-4.6	0.3	-----	45.3	-----	54.0	-----	8.7	Average
2 387.1	V	67.1	-4.6	-----	62.5	-----	74.0	-----	11.5	-----	Peak
2 389.9	V	46.6	-4.6	0.3	-----	42.3	-----	54.0	-----	11.7	Average

Middle channel (2 437 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]		Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
-----------------	-----	----------------	---------------	--	---------------------	---------------------	---------------------	---------------------	----------------	----------------	------

No peak found.

Highest channel (2 462 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
2 483.5	H	75.8	-4.2	-----	71.6	-----	74.0	-----	2.4	-----	Peak
2 483.6	H	50.6	-4.2	0.3	-----	46.7	-----	54.0	-----	7.3	Average
2 483.5	V	74.2	-4.2	-----	70.0	-----	74.0	-----	4.0	-----	Peak
2 483.7	V	49.2	-4.2	0.3	-----	45.3	-----	54.0	-----	8.7	Average

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.

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Test mode : Transmitter (802.11n-HT20)**Lowest channel (2 412 MHz)**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
2 389.6	H	69.6	-4.6	-----	65.0	-----	74	-----	9.0	-----	Peak
2 389.6	H	50.5	-4.6	0.3	-----	45.9	-----	54	-----	8.1	Average
2 389.5	V	67.3	-4.6	-----	62.7	-----	74	-----	11.3	-----	Peak
2 390.0	V	47.1	-4.6	0.3	-----	42.5	-----	54	-----	11.5	Average

Middle channel (2 437 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No peak found.

Highest channel (2 462 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Factor	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
2 485.3	H	75.3	-4.2	-----	71.1	-----	74.0	-----	2.9	-----	Peak
2 483.6	H	51.4	-4.2	0.3	-----	47.5	-----	54.0	-----	6.5	Average
2 483.7	V	73.8	-4.2	-----	69.6	-----	74.0	-----	4.4	-----	Peak
2 483.7	V	50.1	-4.2	0.3	-----	46.2	-----	54.0	-----	7.8	Average

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.

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4.6 AC Conducted Emissions

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2

RSS-Gen - Section 8.8

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- **15.207(a)**

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average**
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

* The level decreases linearly with the logarithm of the frequency.

** A linear average detector is required.

Test Results

The requirements are:

☒ Complies