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Report No.:
CTK-2025-02083
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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 ~ 26.5 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 ~ 26.5 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 ~ 26.5 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	0.50 dB
802.11g	2.43 dB
802.11n_HT20	2.52 dB
802.11n_HT40	4.11 dB

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Limit :

Unwanted emissions that do not fall within the restricted frequency bands of Table 1 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

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 (FCC)

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

Table 2. Restricted Frequency Bands (ISED)

MHz	MHz	MHz	MHz	MHz	GHz
0.009 - 0.110	8.362 - 8.366	73 - 74.6	960 - 1 427	3 500 - 4 400	9.0 - 9.2
0.495 - 0.505	8.37625 - 8.38675	74.8 - 75.2	1 435 - 1 626.5	4 500 - 5 150	9.3 - 9.5
2.1735 - 2.1905	8.41425 - 8.41475	108 - 138	1 645.5 - 1 646.5	5 350 - 5 460	10.6 - 12.7
4.125 - 4.128	12.29 - 12.293	149.9 - 150.05	1 660 - 1 710	7 250 - 7 750	13.25 - 13.4
3.020 - 3.026	12.51975 - 12.52025	156.52475 - 156.52525	1 718.8 - 1 722.2	8 025 - 8 500	14.47 - 14.5
4.17725 - 4.17775	12.57675 - 12.57725	156.7 - 156.9	2 200 - 2 300		15.35 - 16.2
4.20725 - 4.20775	13.36 - 13.41	162.012 5 - 167.17	2 310 - 2 390		17.7 - 21.4
5.677 - 5.683	16.42 - 16.423	167.72 - 173.2	2 483.5 - 2 500		22.01 - 23.12
6.215 - 6.218	16.69475 - 16.69525	240 - 285	2 655 - 2 900		23.6 - 24.0
6.26775 - 6.26825	16.80425 - 16.80475	322 - 335.4	3 260 - 3 267		31.2 - 31.8
6.31175 - 6.31225	25.5 - 25.67	399.9 - 410	3 332 - 3 339		36.43 - 36.5
8.291 - 8.294	37.5 - 38.25	608 - 614	3 345.8 - 3 358		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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*Certain frequency bands listed in Table 1 and in band above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300-series of RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus

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 2 :

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 3. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

Table 3. General Field Strength Limits for Licence-Exempt Transmitters (FCC)

Frequency(MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	48.5 – 13.8	300
0.490-1.705	24000/F(kHz)	33.8 – 23	30
1.705-30	30	29.5	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 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

Table 4. General field strength limits at frequencies below 30 MHz (ISED)

Frequency(kHz)	Magnetic Field Strength (uV/m)	Magnetic Field Strength (dBuA/m)	Field Strength (dBuV/m)**	Deasurement Distance (meters)
9 - 490	$6.37/F(\text{kHz})$	-3 ~ -37.7	48.5 ~ 13.8	300
490 - 1705	$63.7/F(\text{kHz})$	-17.7 ~ -28.6	33.8 ~ 23	30
1.705 - 30	0.08	-21.9	29.5	30

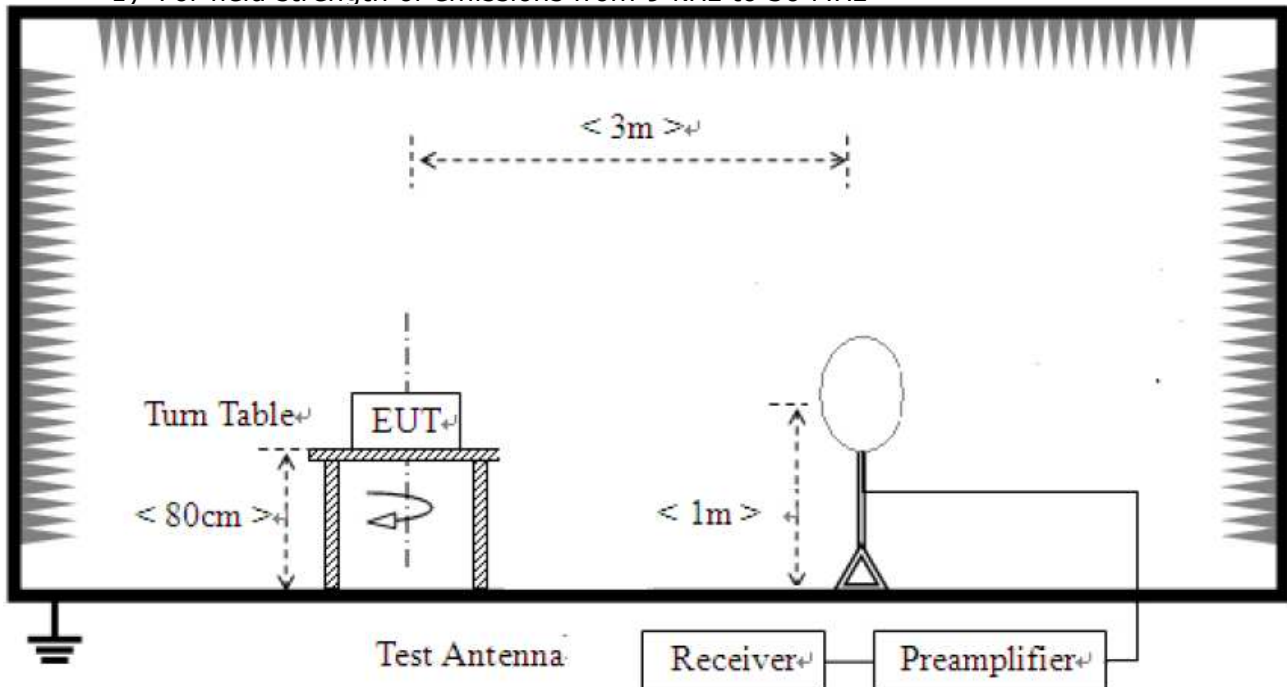
**Field Strength (dBuV/m) : Magnetic Field Strength (dBuA/m) + 51.5 (conversion factor).
 The limit of 30MHz or more is the same as Table 3.

Note :

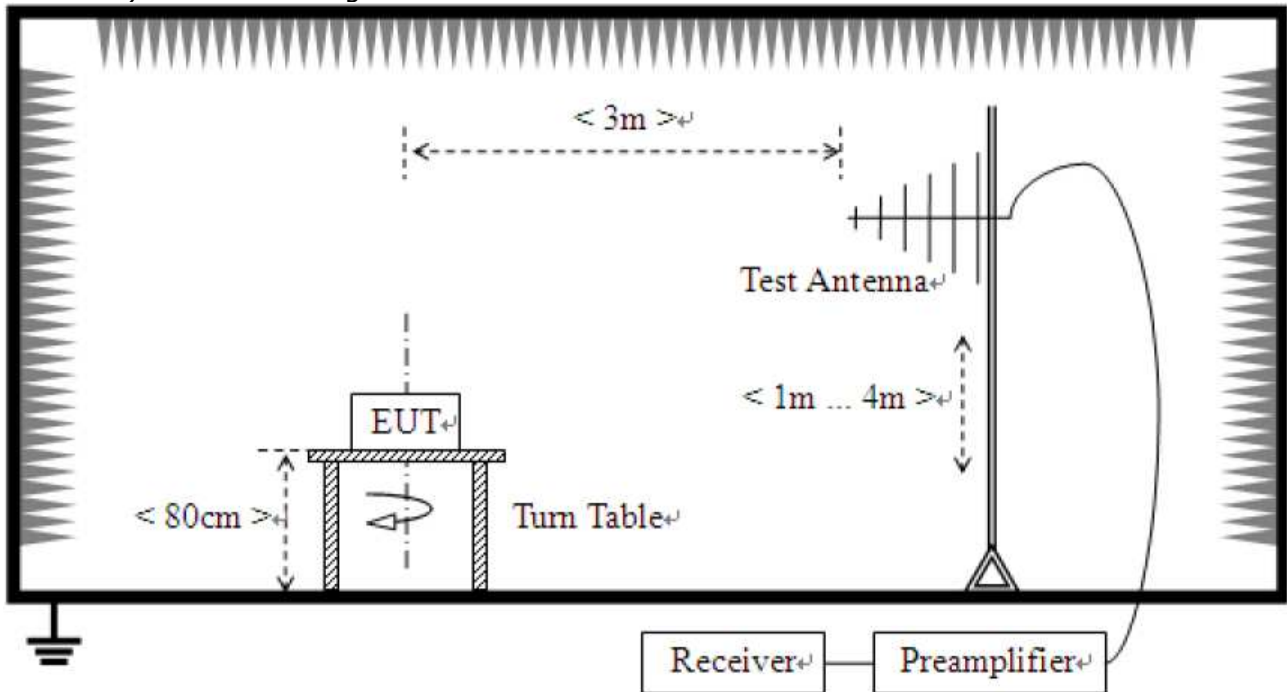
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength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

Test Setup:

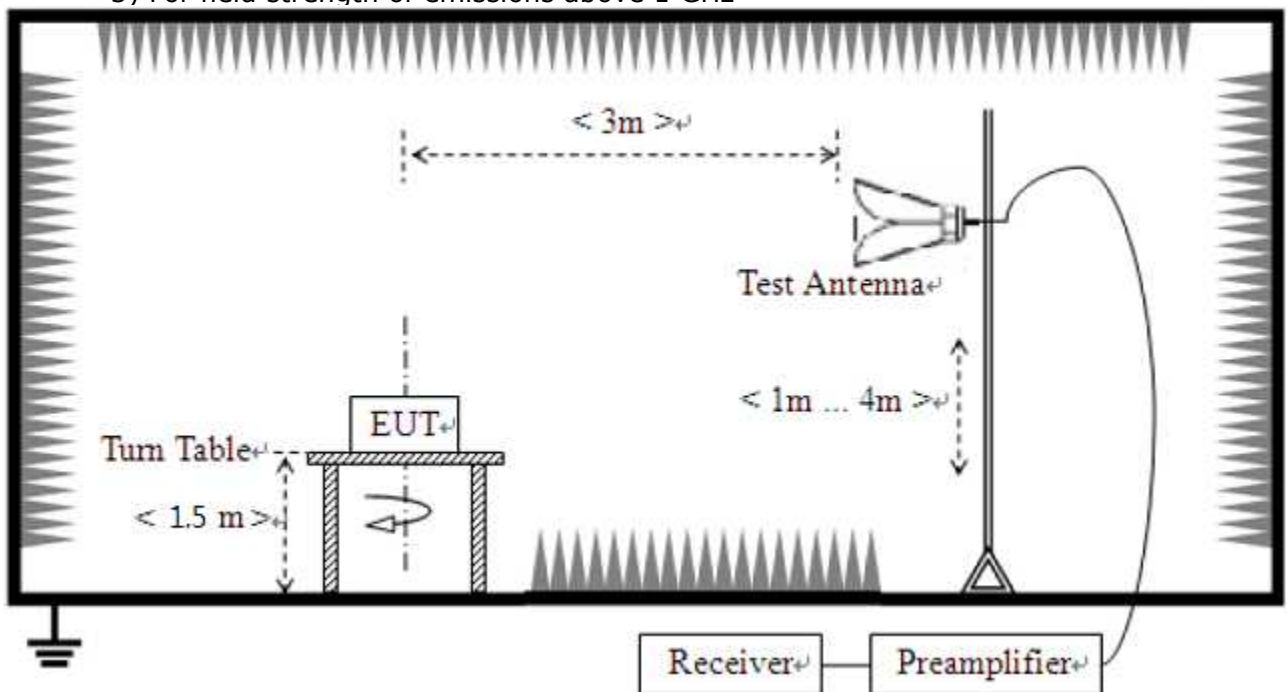
- 1) For field strength of emissions from 9 kHz to 30 MHz



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

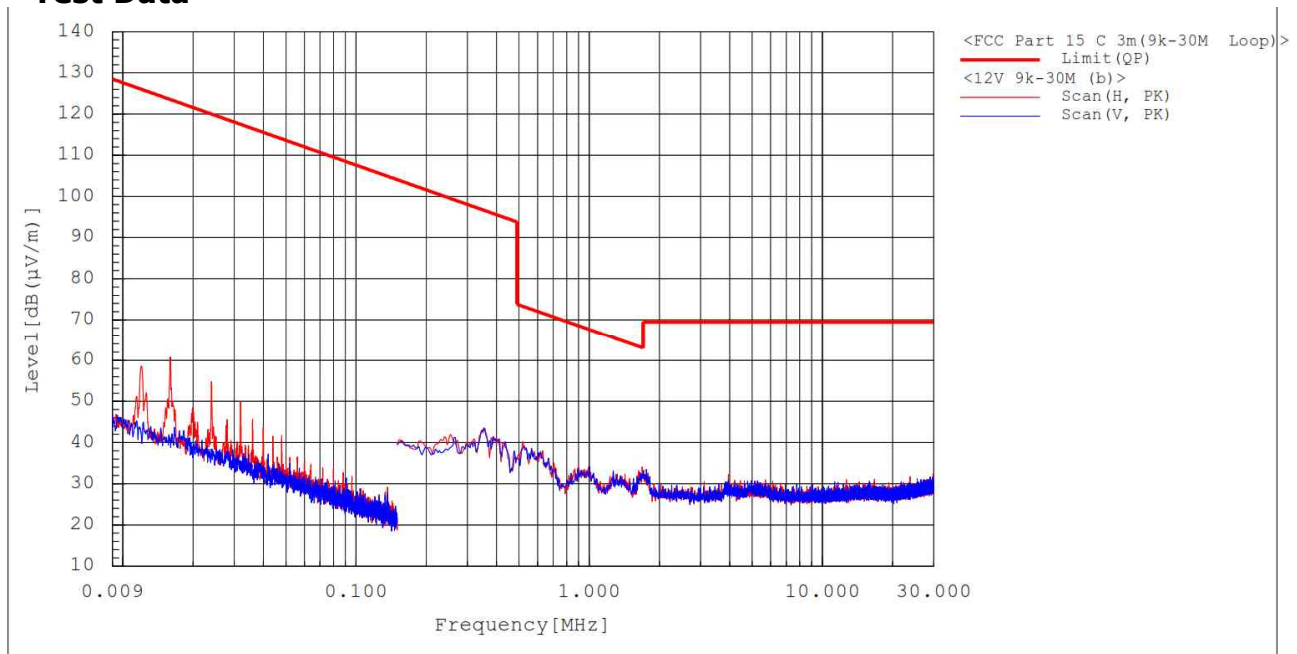
1) 9 kHz to 30 MHz

Test mode : Transmitter_802.11b, Lowest 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]
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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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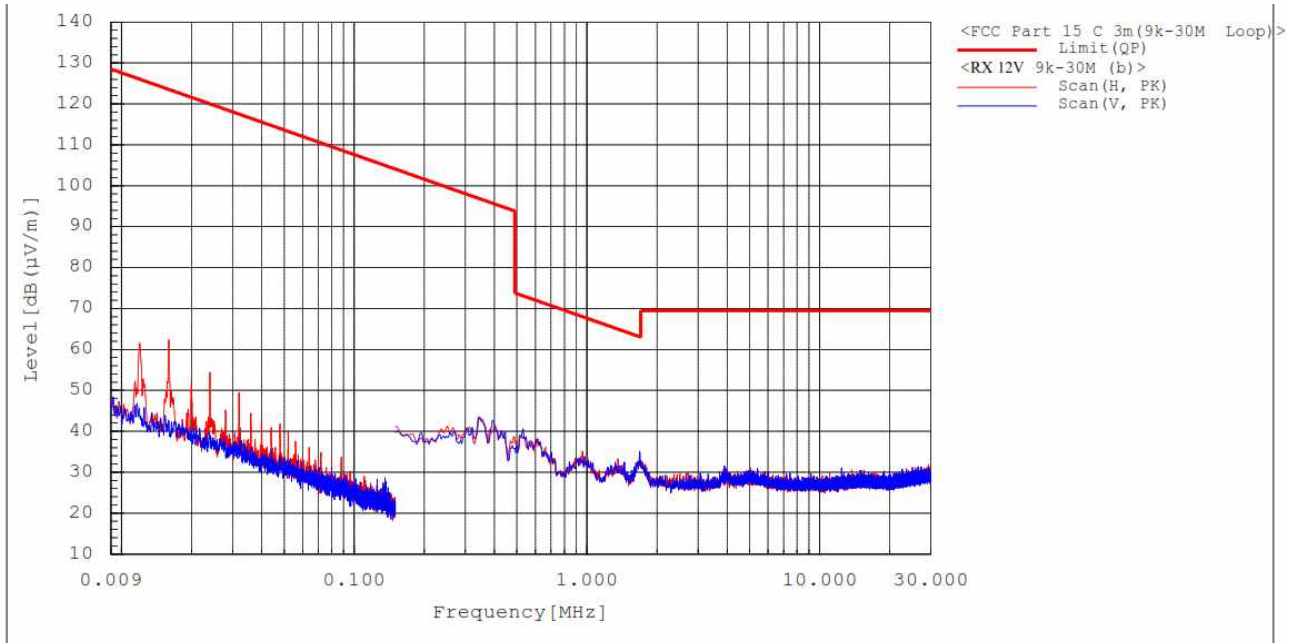
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Test mode : Receiver_802.11b, Lowest Channel (Worst Case)

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]
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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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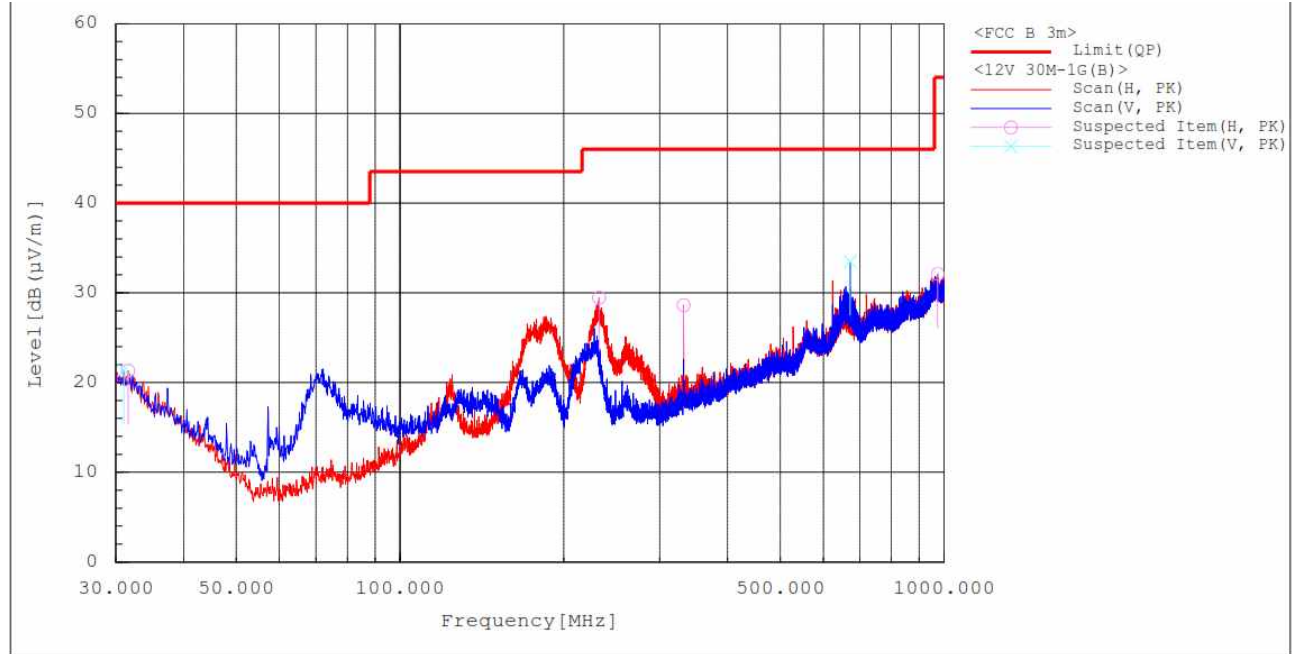
2) 30 MHz to 1 GHz

Test mode : Transmitter_802.11b, Lowest Channel (Worst Case)

The requirements are:

☒ Complies

Test Data



No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle
	[MHz]		[dB (μV)]	[dB (1/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB]	[cm]	[deg]
1	31.067	V	28.1	-6.7	21.4	40.0	18.6	400.1	359.1
2	31.649	H	28.3	-7.0	21.3	40.0	18.7	400.1	0.0
3	232.148	H	42.7	-13.2	29.5	46.0	16.5	100.0	2.7
4	332.155	H	37.6	-9.0	28.6	46.0	17.4	100.0	223.4
5	672.043	V	34.2	-0.7	33.5	46.0	12.5	100.0	221.5
6	973.325	H	25.8	6.3	32.1	54.0	21.9	300.0	327.9

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



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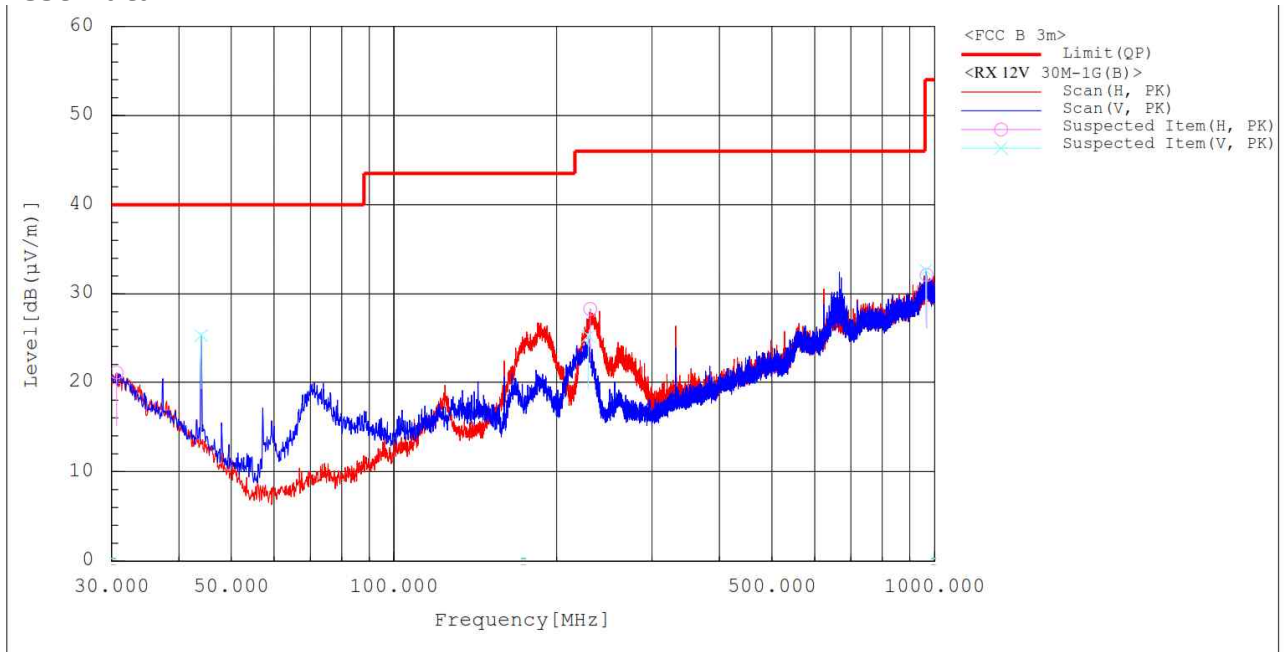
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Test mode : Receiver_802.11b, Lowest Channel (Worst Case)

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	30.679	H	27.6	-6.5	21.1	40.0	18.9	99.9	359.0
2	43.968	V	38.9	-13.7	25.2	40.0	14.8	200.1	319.0
3	228.850	V	38.9	-13.7	25.2	46.0	20.8	99.9	41.3
4	230.499	H	41.8	-13.5	28.3	46.0	17.7	99.9	359.0
5	963.625	V	26.4	6.2	32.6	54.0	21.4	300.1	0.0
6	966.826	H	25.8	6.3	32.1	54.0	21.9	299.9	0.0

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



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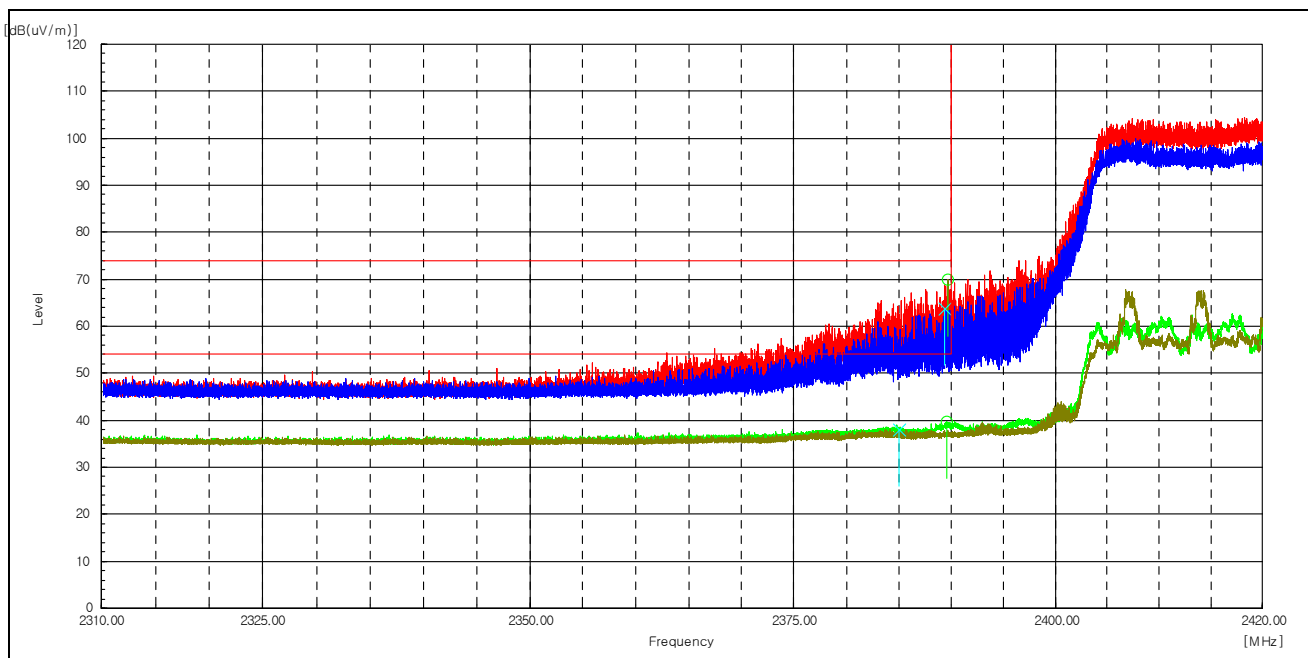
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3) 2 310 MHz to 2 390 MHz

The requirements are:

☒ Complies

Test mode : 802.11n_HT40, Lowest Channel - (Worst case)



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 384.98	V	42.6	-4.6	4.11	-----	42.1	-----	54.0	-----	11.9	Average
2 389.41	V	68.5	-4.6	-----	63.9	-----	74.0	-----	10.1	-----	Peak
2 389.61	H	44.3	-4.6	4.11	-----	43.8	-----	54.0	-----	10.2	Average
2 389.67	H	74.6	-4.6	-----	70.0	-----	74.0	-----	4.0	-----	Peak

Remarks

- 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 lie-down position(X axis) and the worst case was recorded.
- Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
- Correction factor = Antenna factor + Cable loss - Amp Gain

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Test mode : 802.11b, Lowest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 389.49	V	56.4	-4.6	-----	51.8	-----	74.0	-----	22.2	-----	Peak
2 338.54	V	42.1	-4.8	0.50	-----	37.8	-----	54.0	-----	16.2	Average
2 389.60	H	42.6	-4.6	0.50	-----	38.5	-----	54.0	-----	15.5	Average
2 389.74	H	58.4	-4.6	-----	53.8	-----	74.0	-----	20.2	-----	Peak

Test mode : 802.11g, Lowest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 389.09	V	69.5	-4.6	-----	64.9	-----	74.0	-----	9.1	-----	Peak
2 389.46	H	71.4	-4.6	-----	66.8	-----	74.0	-----	7.2	-----	Peak
2 389.74	V	44.5	-4.6	2.43	-----	42.3	-----	54.0	-----	11.7	Average
2 389.82	H	45.5	-4.6	2.43	-----	43.3	-----	54.0	-----	10.7	Average

Test mode : 802.11n_HT20, Lowest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 389.26	H	71.2	-4.6	-----	66.6	-----	74.0	-----	7.4	-----	Peak
2 389.36	V	42.5	-4.6	2.52	-----	40.4	-----	54.0	-----	13.6	Average
2 389.45	V	66.9	-4.6	-----	62.3	-----	74.0	-----	11.7	-----	Peak
2 389.78	H	42.9	-4.6	2.52	-----	40.8	-----	54.0	-----	13.2	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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



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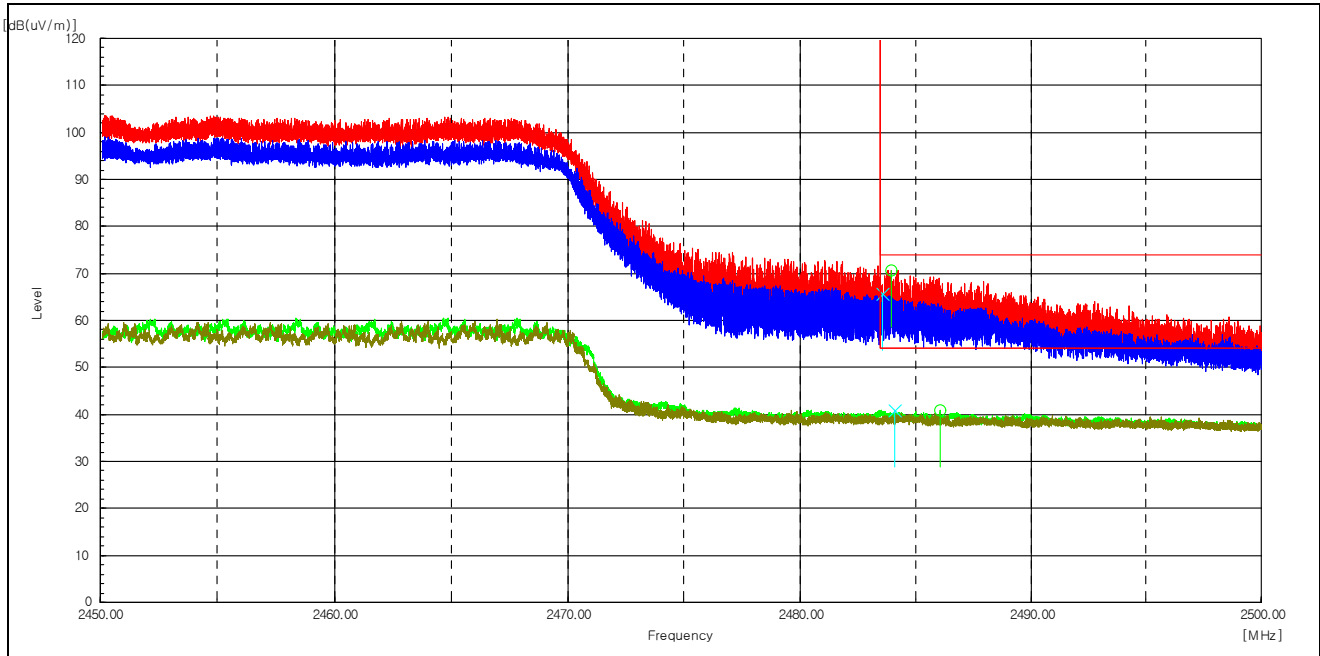
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4) 2 483.5 MHz – 2 500 MHz

The requirements are:

☒ Complies

Test mode : 802.11n_HT40, Highest Channel - (Worst case)



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 483.56	V	69.9	-4.2	-----	65.7	-----	74.0	-----	8.3	-----	Peak
2 483.96	H	74.8	-4.2	-----	70.6	-----	74.0	-----	3.4	-----	Peak
2 484.10	V	45.0	-4.2	4.11	-----	44.9	-----	54.0	-----	9.1	Average
2 486.06	H	45.1	-4.2	4.11	-----	45.0	-----	54.0	-----	9.0	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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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Test mode : 802.11b, Highest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 487.37	H	41.5	-4.2	0.50	-----	37.8	-----	54.0	-----	16.2	Average
2 493.43	V	54.0	-4.1	-----	49.9	-----	74.0	-----	24.1	-----	Peak
2 494.53	H	53.9	-4.1	-----	49.8	-----	74.0	-----	24.2	-----	Peak
2 495.07	V	41.8	-4.1	0.50	-----	38.2	-----	54.0	-----	15.8	Average

Test mode : 802.11g, Highest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 483.53	V	45.8	-4.2	2.43	-----	44.0	-----	54.0	-----	41.6	Average
2 483.65	V	73.0	-4.2	-----	68.8	-----	74.0	-----	5.2	-----	Peak
2 483.73	H	74.0	-4.2	-----	69.8	-----	74.0	-----	4.2	-----	Peak
2 483.89	H	46.7	-4.2	2.43	-----	44.9	-----	54.0	-----	9.1	Average

Test mode : 802.11n_HT20, Highest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2 483.80	H	45.6	-4.2	2.52	-----	43.9	-----	54.0	-----	10.1	Average
2 483.99	V	69.4	-4.2	-----	65.2	-----	74.0	-----	8.8	-----	Peak
2 484.01	H	74.8	-4.2	-----	70.6	-----	74.0	-----	3.4	-----	Peak
2 485.42	V	45.0	-4.2	2.52	-----	43.3	-----	54.0	-----	10.7	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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



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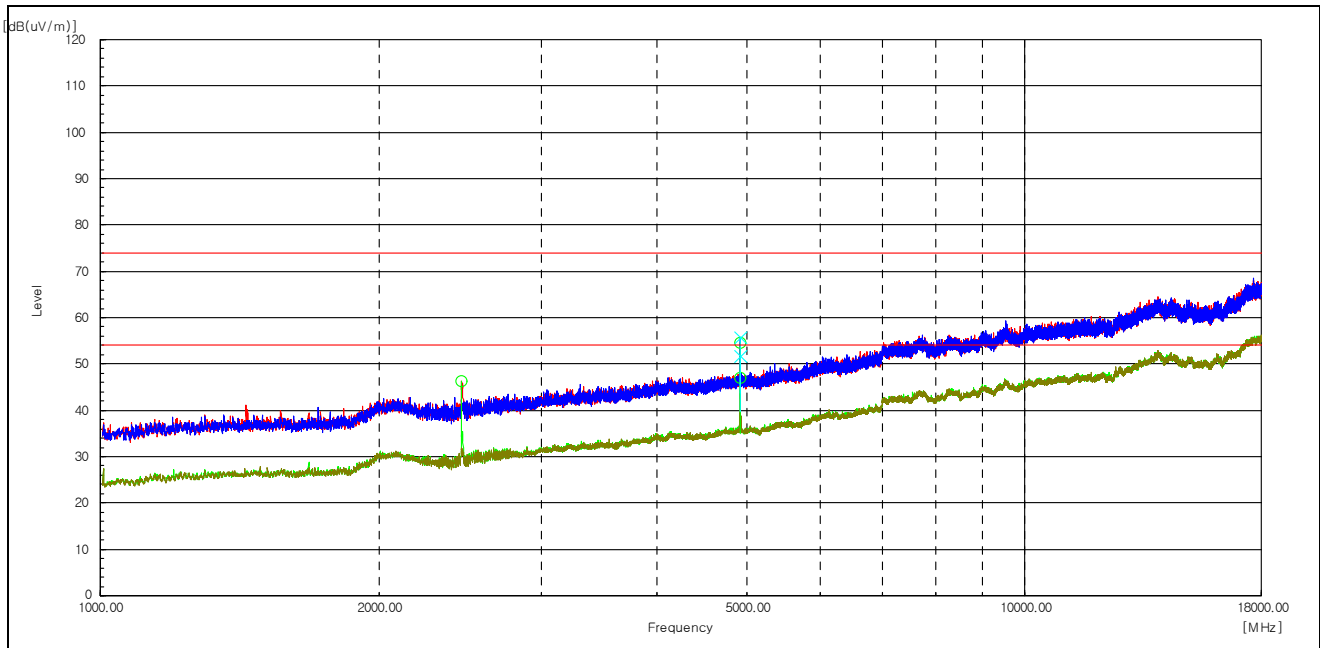
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5) 1 GHz to 18 GHz

The requirements are:

☒ Complies

Test mode : Transmitter_802.11b, Highest Channel(Worst case)



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
2460.018	H	50.8	-4.5	-----	46.3	-----	74.0	-----	-----	-----	Peak
4 923.76	H	43.4	3.6	0.5	-----	47.5	-----	54.0	-----	6.5	Average
4 923.76	V	48.2	3.6	0.5	-----	52.3	-----	54.0	-----	1.7	Average
4 923.76	V	52.1	3.6	-----	55.7	-----	74.0	-----	18.3	-----	Peak
4 924.44	H	50.9	3.7	-----	54.6	-----	74.0	-----	19.4	-----	Peak

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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle 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.
5. The first frequency in the table is the fundamental frequency.

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Test mode : Transmitter_802.11b, Lowest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 823.79	H	51.1	3.4	-----	54.5	-----	74.0	-----	19.5	-----	Peak
4 823.79	H	38.6	3.4	0.5	-----	42.5	-----	54.0	-----	11.5	Average
4 823.79	V	45.6	3.4	-----	49.0	-----	74.0	-----	25.0	-----	Peak
4 823.79	V	37.6	3.4	0.5	-----	41.5	-----	54.0	-----	12.5	Average

Test mode : Transmitter_802.11b, Middle Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 874.11	H	52.0	3.5	-----	55.5	-----	74.0	-----	18.5	-----	Peak
4 874.11	H	48.0	3.5	0.5	-----	52.0	-----	54.0	-----	2.0	Average
4 874.11	V	53.0	3.5	-----	56.5	-----	74.0	-----	17.5	-----	Peak
4 874.11	V	42.6	3.5	0.5	-----	46.6	-----	54.0	-----	7.4	Average
9 747.87	H	37.8	11.1	0.5	-----	49.4	-----	54.0	-----	4.6	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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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Test mode : Transmitter_802.11g, Lowest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 822.43	H	34.6	3.4	2.43	-----	40.4	-----	54.0	-----	13.6	Average
4 824.47	V	33.8	3.4	2.43	-----	39.6	-----	54.0	-----	14.4	Average
4 825.83	V	49.0	3.4	-----	52.4	-----	74.0	-----	21.6	-----	Peak
7 242.65	V	49.6	9.1	-----	58.7	-----	74.0	-----	15.3	-----	Peak

Test mode : Transmitter_802.11g, Middle Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 873.44	H	35.9	3.5	2.43	-----	41.8	-----	54.0	-----	12.2	Average
4 874.11	V	34.5	3.5	2.43	-----	40.4	-----	54.0	-----	13.6	Average
4 875.48	H	50.2	3.5	-----	53.7	-----	74.0	-----	20.3	-----	Peak
7 313.37	H	49.5	9.1	-----	58.6	-----	74.0	-----	15.4	-----	Peak

Test mode : Transmitter_802.11g, Highest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 923.08	H	36.1	3.6	2.43	-----	42.1	-----	54.0	-----	11.9	Average
4 923.76	V	54.5	3.6	-----	58.1	-----	74.0	-----	15.9	-----	Peak
4 923.76	V	38.7	3.6	2.43	-----	44.7	-----	54.0	-----	9.3	Average
4 925.12	H	51.2	3.7	-----	54.9	-----	74.0	-----	19.1	-----	Peak
7 375.25	V	50.2	9.1	-----	59.3	-----	74.0	-----	14.7	-----	Peak

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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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Test mode : Transmitter_802.11n_HT20, Lowest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 821.07	V	33.7	3.4	2.52	-----	39.6	-----	54.0	-----	14.4	Average
4 822.43	H	45.3	3.4	-----	48.7	-----	74.0	-----	25.3	-----	Peak
4 823.11	H	34.0	3.4	2.52	-----	39.9	-----	54.0	-----	14.1	Average
4 824.47	V	45.8	3.4	-----	49.2	-----	74.0	-----	24.8	-----	Peak

Test mode : Transmitter_802.11n_HT20, Middle Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 874.11	H	50.7	3.5	-----	54.2	-----	74.0	-----	19.8	-----	Peak
4 874.11	H	36.7	3.5	2.52	-----	42.7	-----	54.0	-----	11.3	Average
4 880.24	V	49.6	3.5	-----	53.1	-----	74.0	-----	20.9	-----	Peak
4 882.28	V	36.3	3.5	2.52	-----	42.3	-----	54.0	-----	11.7	Average

Test mode : Transmitter_802.11n_HT20, Highest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 923.76	H	35.3	3.6	2.52	-----	41.4	-----	54.0	-----	12.6	Average
4 923.76	V	35.8	3.6	2.52	-----	41.9	-----	54.0	-----	12.1	Average
4 926.48	H	52.6	3.7	-----	56.3	-----	74.0	-----	17.7	-----	Peak
4 927.16	V	53.5	3.7	-----	57.2	-----	74.0	-----	16.8	-----	Peak

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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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Test mode : Transmitter_802.11n_HT40, Lowest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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 Data

Test mode : Transmitter_802.11n_HT40, Middle Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 870.04	H	48.7	3.5	-----	52.2	-----	74.0	-----	21.8	-----	Peak
4 875.48	H	35.2	3.5	4.11	-----	42.8	-----	54.0	-----	11.2	Average
4 891.80	V	48.7	3.5	-----	52.2	-----	74.0	-----	21.8	-----	Peak
4 891.80	V	35.5	3.5	4.11	-----	43.1	-----	54.0	-----	10.9	Average

Test mode : Transmitter_802.11n_HT40, Highest Channel

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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
4 883.64	H	33.4	3.5	4.11	-----	41.0	-----	54.0	-----	13.0	Average
4 893.84	H	47.7	3.5	-----	51.2	-----	74.0	-----	22.8	-----	Peak
4 899.28	V	49.0	3.5	4.11	52.5	-----	74.0	-----	21.5	-----	Average
4 904.04	V	34.5	3.5	-----	-----	42.1	-----	54.0	-----	11.9	Peak

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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

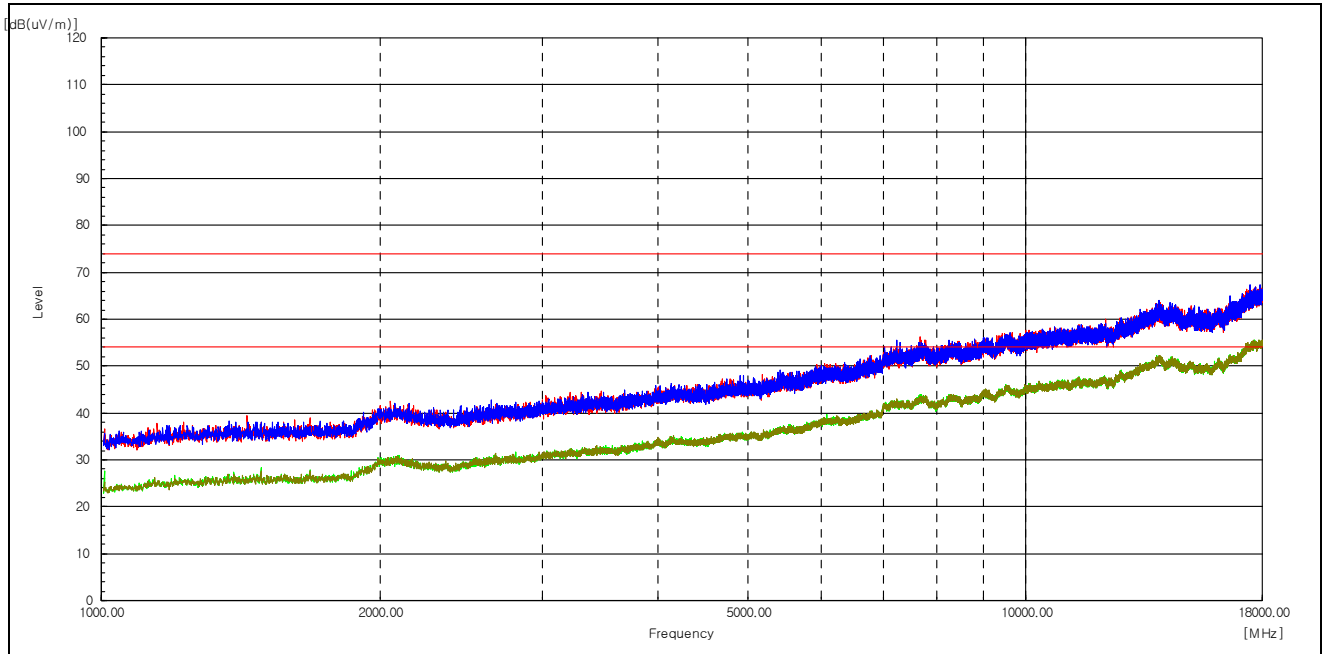


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Test mode : Receiver_802.11b, Highest Channel(Worst case)



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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 Data

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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle 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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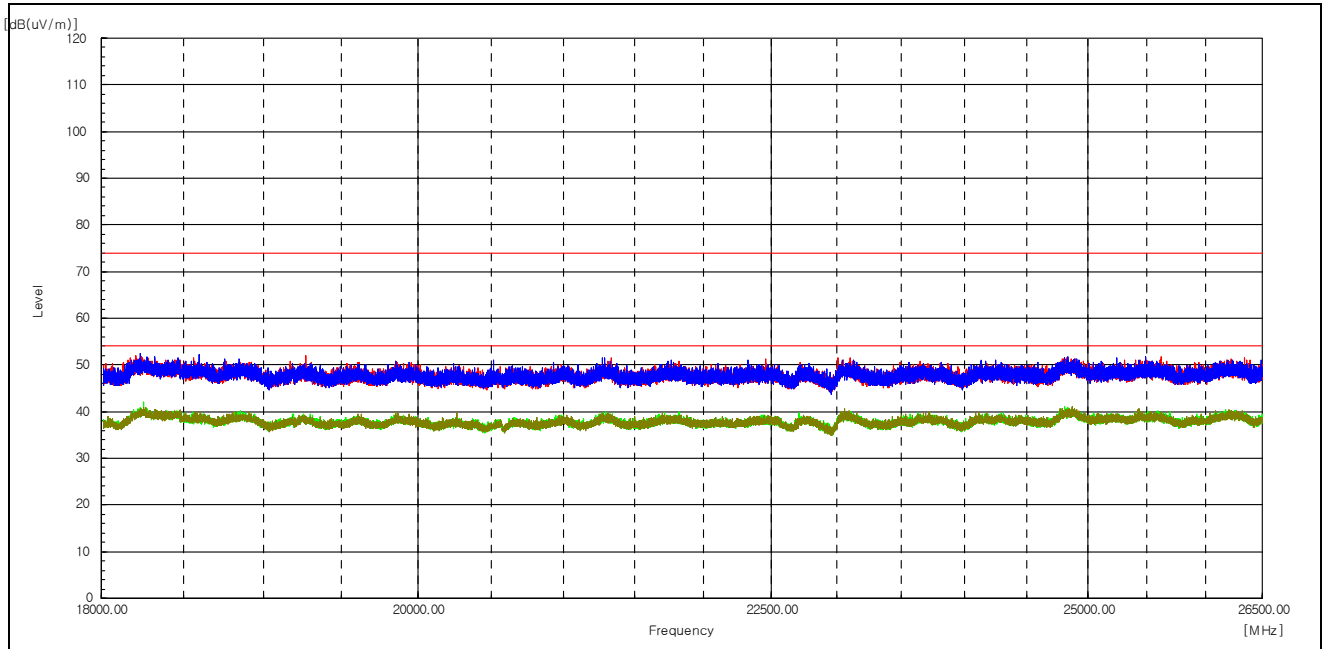
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6) 18.0 GHz to 26.5 GHz

Test mode : Transmitter_802.11n_HT40, Middle Channel - (Worst case)

The requirements are:

☒ Complies



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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 Data

Remarks

- 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 lie-down position(X axis) and the worst case was recorded.
- Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
- Correction factor = Antenna factor + Cable loss - Amp Gain



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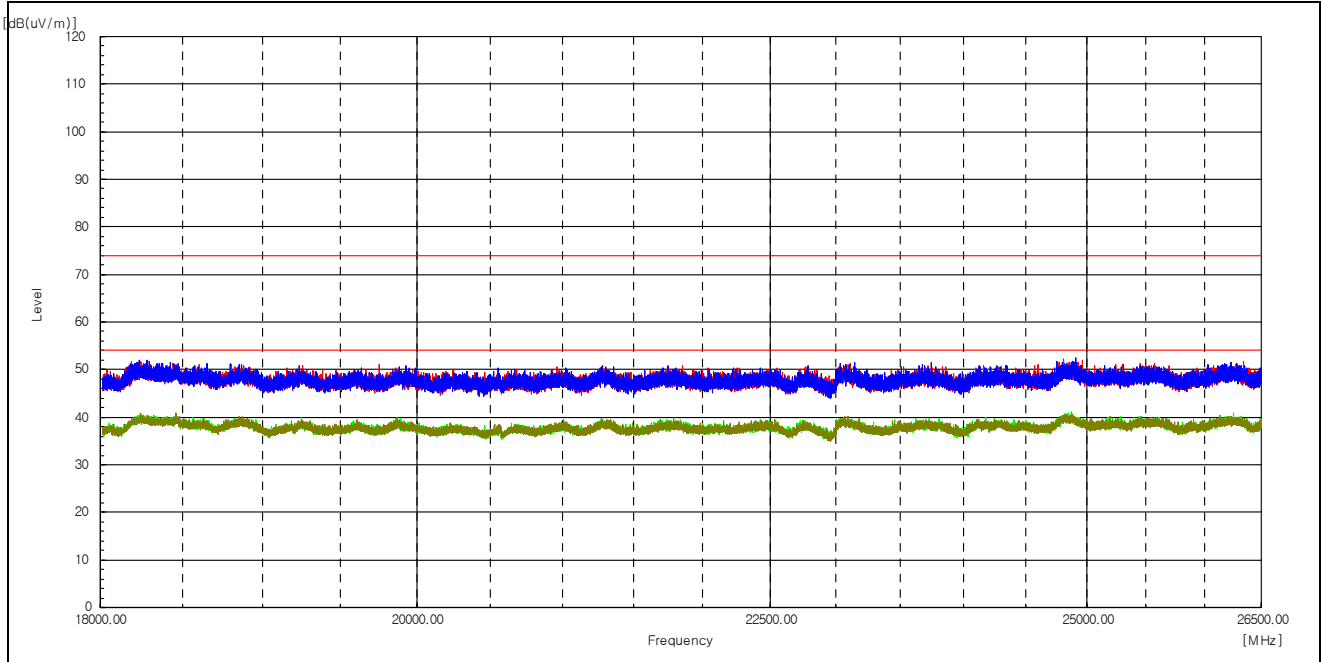
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Test mode : Receiver_802.11n_HT40, Middle Channel - (Worst case)

The requirements are:

☒ Complies



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	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 Data

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 lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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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



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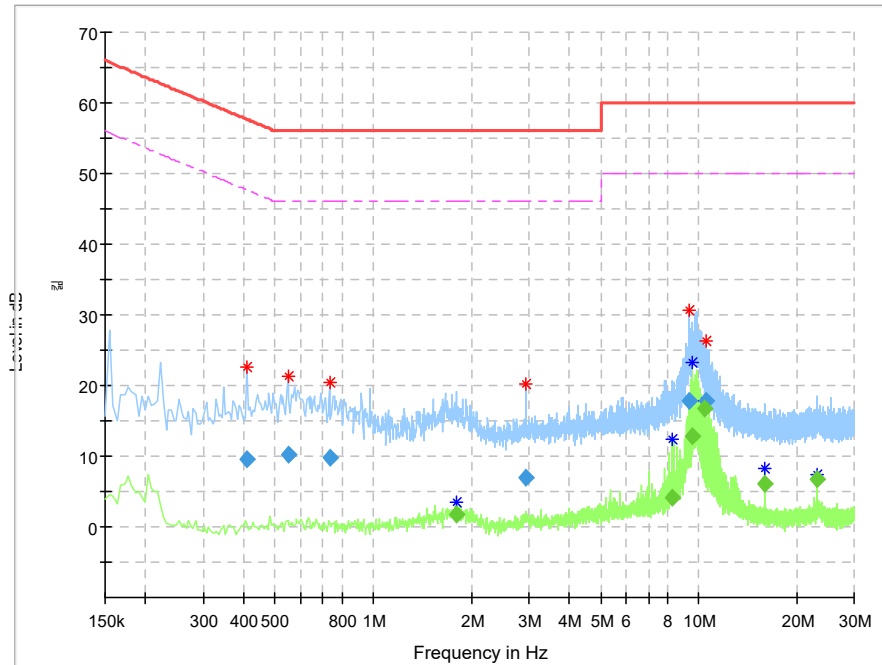
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Test Data

[Worst Case - 802.11n_HT40_LINE]

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.411000	9.54	---	57.63	48.09	15000.0	9.000	L1	ON	10.0
0.546000	10.17	---	56.00	45.83	15000.0	9.000	L1	ON	10.0
0.735000	9.88	---	56.00	46.12	15000.0	9.000	L1	ON	10.0
1.806000	---	1.68	46.00	44.32	15000.0	9.000	L1	ON	9.8
2.931000	7.01	---	56.00	48.99	15000.0	9.000	L1	ON	9.8
8.263500	---	4.05	50.00	45.95	15000.0	9.000	L1	ON	10.0
9.361500	17.86	---	60.00	42.14	15000.0	9.000	L1	ON	10.0
9.595500	---	12.85	50.00	37.15	15000.0	9.000	L1	ON	10.0
10.428000	---	16.81	50.00	33.19	15000.0	9.000	L1	ON	10.0
10.518000	17.89	---	60.00	42.11	15000.0	9.000	L1	ON	10.0
15.945000	---	6.08	50.00	43.92	15000.0	9.000	L1	ON	10.2
23.127000	---	6.79	50.00	43.21	15000.0	9.000	L1	ON	10.1



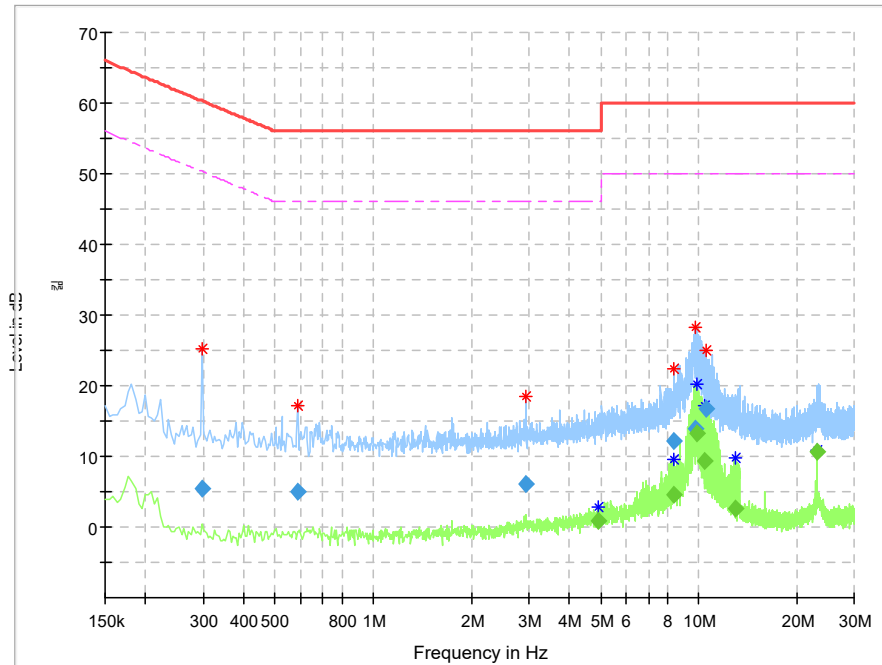
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[Worst Case – 802.11n_HT40_NEUTRAL]

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.298500	5.49	---	60.28	54.80	15000.0	9.000	N	ON	9.8
0.586500	5.03	---	56.00	50.97	15000.0	9.000	N	ON	10.0
2.931000	6.10	---	56.00	49.90	15000.0	9.000	N	ON	9.7
4.906500	---	0.93	46.00	45.07	15000.0	9.000	N	ON	9.8
8.380500	---	4.52	50.00	45.48	15000.0	9.000	N	ON	9.9
8.380500	12.08	---	60.00	47.92	15000.0	9.000	N	ON	9.9
9.717000	13.84	---	60.00	46.16	15000.0	9.000	N	ON	9.9
9.856500	---	13.33	50.00	36.67	15000.0	9.000	N	ON	9.9
10.428000	---	9.29	50.00	40.71	15000.0	9.000	N	ON	9.9
10.522500	16.66	---	60.00	43.34	15000.0	9.000	N	ON	9.9
12.952500	---	2.51	50.00	47.49	15000.0	9.000	N	ON	10.1
23.127000	---	10.62	50.00	39.38	15000.0	9.000	N	ON	10.3

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APPENDIX A – Test Equipment Used For Tests

No.	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	US46470483	2024-11-26	2025-11-26
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2025-03-21	2026-03-21
3	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2025-04-28	2026-04-28
4	BILOG ANTENNA	TESEQ	CBL6111D	60654	2023-08-21	2025-08-21
5	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2024-04-15	2026-04-15
6	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2024-07-31	2025-07-31
7	6dB Attenuator	NONE	6dB	190557	2024-09-19	2025-09-19
8	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2024-07-31	2025-07-31
9	Spectrum Analyzer	R&S	FSV40	101574	2025-01-10	2026-01-10
10	PRE AMPLIFIER	HP	8449B	3008A00620	2025-03-11	2026-03-11
11	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2025-03-13	2026-03-13
12	HORN ANTENNA	SCHWARZBECK	BBHA9170	1153	2024-10-18	2025-10-18
13	LOW NOISE AMPLIFIER	TESTEK	TK-PA1840H	210124-L	2024-10-18	2025-10-18
14	EMI TEST RECEIVER	Rohde & Schwarz	ESR3	102826	2025-04-28	2026-04-28
15	LISN	Rohde & Schwarz	ENV216	102698	2025-04-28	2026-04-28
16	Band Reject Filter	Micro Tronics	BRM50702	G233	2024-11-25	2025-11-25
17	DC Power Supply	Agilent	E3632A	MY40008023	2025-03-12	2026-03-12
18	Dual-Tracking DC Power Supply	Topward Electric Instruments Co.,Ltd.	6303D	802204	2025-03-13	2026-03-13

No.	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S151	2025-05-28
2	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2025-03-05
3	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	L-5D2W	N/A	2025-03-05
4	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2025-02-21
5	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	J0970749	2025-02-21
6	RF Cable (1 GHz - 18 GHz Radiated)	Sensorview Co., LTD	13A26	TPC2204060007	2025-02-21
7	RF Cable (18 GHz - 26.5 GHz Radiated)	Junkosha Inc.	MWX221	2008S249	2025-02-21
8	RF Cable (18 GHz - 26.5 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2371/2	2025-02-21
9	RF Cable (18 GHz - 26.5 GHz Radiated)	Sensorview Co., LTD	9A40	TP210713-001	2025-02-21

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