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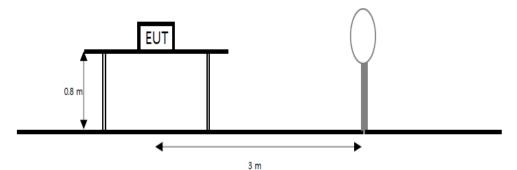
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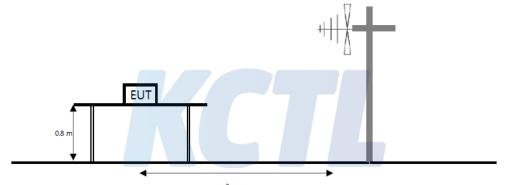
### 7.4. Spurious Emission, Band Edge and Restricted bands

### <u>Test setup</u>

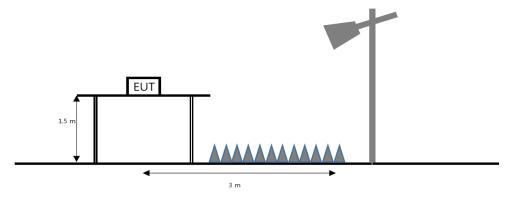
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



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



The diagram below shows the test setup that is utilized to make the measurements for emission from 1  $\mathbb{G}_{\mathbb{Z}}$  to the tenth harmonic of the highest fundamental frequency or to 40  $\mathbb{G}_{\mathbb{Z}}$  emissions, whichever is lower.



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### <u>Limit</u>

### FCC

According to section 15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 Mz, 76-88 Mz, 174-216 Mz or 470-806 Mz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section15.231 and 15.241.

According to section 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

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

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in section 15.209. At frequencies equal to or less than 1 000 Mb, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasipeak detector. Above 1 000 Mb, 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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### IC

According to RSS-247(5.5), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

According to RSS-Gen(8.9), Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Frequency(Mz)	Field strength (µV/m at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

### Table 5- General field strength limits at frequencies above 30 MHz

### Table 6- General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) ( µ A/m)	Measurement distance(m)
9-490 kHz <sup>1)</sup>	6.37/F (F in klz)	300
<b>490 – 1705</b> kHz	63.7/F (F in ktz)	30
1.705 - 30 M±	0.08	30

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

According to RSS-Gen(8.10), Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

- (a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).
- (b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.
- (c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

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#### Table 7- Restricted frequency bands\*

MHz
0.090 - 0.110
0.495 - 0.505
2.1735 - 2.1905
3.020 - 3.026
4.125 - 4.128
4.17725 - 4.17775
4.20725 - 4.20775
5.677 - 5.683
6.215 - 6.218
6.26775 - 6.26825
6.31175 - 6.31225
8.291 - 8.294
8.362 - 8.366
8.37625 - 8.38675
8.41425 - 8.41475
12.29 - 12.293
12.51975 - 12.52025
12.57675 - 12.57725
13.36 - 13.41
16.42 - 16.423
16.69475 - 16.69525
16.80425 - 16.80475
25.5 - 25.67
37.5 - 38.25
73 - 74.6
74.8 - 75.2
108 - 138

MHz
149.9 - 150.05
156.52475 - 156.52525
156.7 - 156.9
162.0125 - 167.17
167.72 - 173.2
240 - 285
322 - 335.4
399.9 - 410
608 - 614
960 - 1427
1435 - 1626.5
1645.5 - 1646.5
1660 - 1710
1718.8 - 1722.2
2200 - 2300
2310 - 2390
2483.5 - 2500
2655 - 2900
3260 - 3267
3332 - 3339
3345.8 - 3358
3500 - 4400
4500 - 5150
5350 - 5460
7250 - 7750
8025 - 8500

GHz
9.0 - 9.2
9.3 - 9.5
10.6 - 12.7
13.25 - 13.4
14.47 - 14.5
15.35 - 16.2
17.7 - 21.4
22.01 - 23.12
23.6 - 24.0
31.2 - 31.8
36.43 - 36.5
Above 38.6

\* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licenceexempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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### Test procedure

ANSI C63.10-2013

### Test settings

### Peak field strength measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in table
- 3. VBW  $\geq$  (3×RBW)
- 4. Detector = peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Allow sweeps to continue until the trace stabilizes

Table. INDIVIAS a function of frequency						
Frequency	RBW					
9 kHz to 150 kHz	200 Hz to 300 Hz					
0.15 Mt to 30 Mt	9 kHz to 10 kHz					
30 MHz to 1 000 MHz	100 kHz to 120 kHz					
> 1 000 MHz	1 MHz					

### Table. RBW as a function of frequency

#### Average field strength measurements

### Trace averaging with continuous EUT transmission at full power

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

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

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

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

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

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- 6. Averaging type = power (i.e., rms):
  - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
- 7. Sweep time = auto.
- 8. Perform a trace average of at least 100 traces.
- 9. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
  - 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is [10 log (1 / D)], where D is the duty cycle.
  - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is [20 log (1 / D)], where D is the duty cycle.
  - If a specific emission is demonstrated to be continuous (D ≥ 98%) rather than turning ON and OFF with with the transmit cycle, then no duty cycle correction is required for that emission.

### Notes:

- 1. f < 30 MHz, extrapolation factor of 40 dB/decade of distance.  $F_d = 40log(D_m/Ds)$ 
  - $f \ge 30$  Mz, extrapolation factor of 20 dB/decade of distance.  $F_d = 20log(D_m/Ds)$ Where:
    - F<sub>d</sub>= Distance factor in dB
    - D<sub>m</sub>= Measurement distance in meters
    - D<sub>s</sub>= Specification distance in meters
- 2. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or  $F_d(dB)$
- 3. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
- 4. Average test would be performed if the peak result were greater than the average limit.
- 5. <sup>1)</sup> means restricted band.

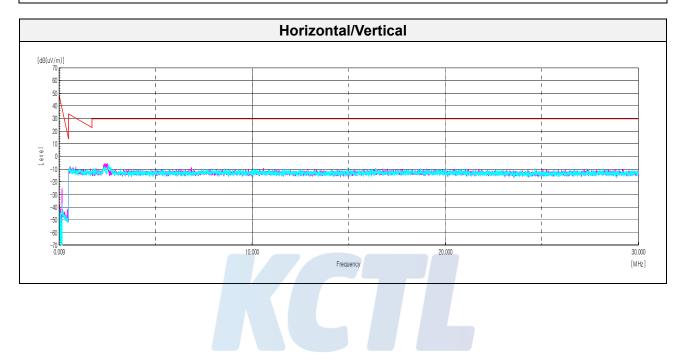
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### Test results (Below 30 ₩) - Worst case: 802.11g mode/ 2 437 ₩

10011004										
Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCF	Result	Limit	Margin	
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]	
		No spuri	ous emissic	ons were de	etected with	iin 20 dB o	f the limit.			



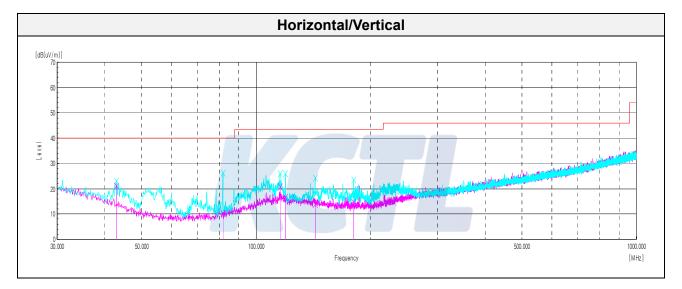
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#### Test results (Below 1 000 胍) – Worst case: 802.11g mode/ 2 437 胍

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin			
(MHz)	(V/H)	(dB(µN))	(dB)	(dB)	(dB) (dB) (d		(dB( <i>µ</i> V/ <b>m</b> ))	(dB)			
	Quasi peak data										
42.85	V	33.40	18.10	-30.29	-	21.21	40.00	18.79			
81.77	V	26.20	13.62	-29.51	-	10.31	40.00	29.69			
115.60 <sup>1)</sup>	V	31.50	18.31	-28.94	-	20.87	43.50	22.63			
119.48 <sup>1)</sup>	V	27.30	18.39	-28.89	-	16.80	43.50	26.70			
143.01	V	24.90	17.50	-28.53	-	13.87	43.50	29.63			
180.35	V	27.20	15.59	-28.07	-	14.72	43.50	28.78			



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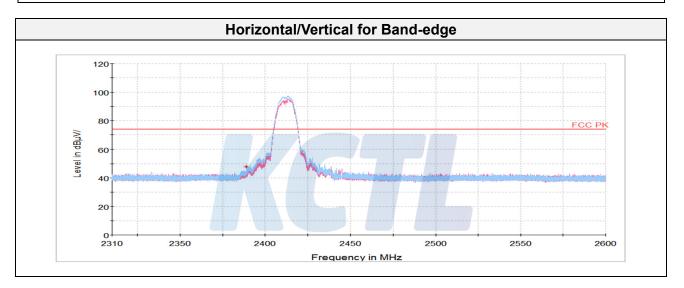
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### <u>Test results (Above 1 000 账)</u> <u>802.11b</u>

#### 2412 M址

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin	
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB(µV/m))	(dB( <i>µ</i> V/ <b>m</b> ))	(dB)	
	Peak data								
2 389.99 <sup>1)</sup>	Н	44.93	31.88	-29.04	-	47.77	74.00	26.23	
4 823.58 <sup>1)</sup>	V	67.58	33.93	-53.57	-	47.94	74.00	26.06	
	Average Data								

No spurious emissions were detected within 20 dB of the limit.



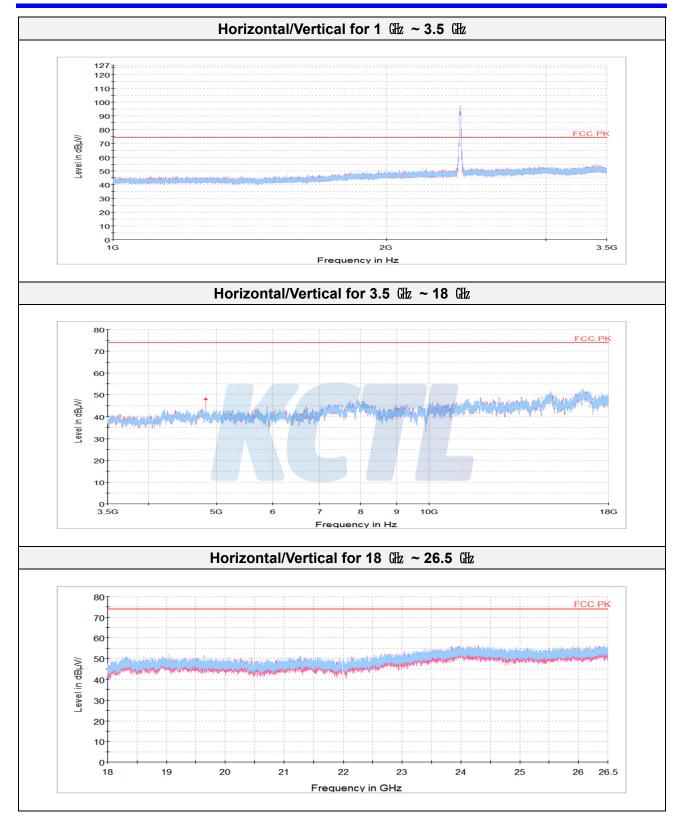
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#### 2 437 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin	
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB( <i>µ</i> V/ <b>m</b> ))	(dB( <i>µ</i> V/ <b>m</b> ))	(dB)	
Peak data									
4 878.41 <sup>1)</sup>	Н	62.81	33.95	-55.12	-	41.64	74.00	32.36	
16 547.73	V	56.64	41.55	-45.66	-	52.53	74.00	21.47	
Average Data									
	No spurious emissions were detected within 20 dB of the limit.								



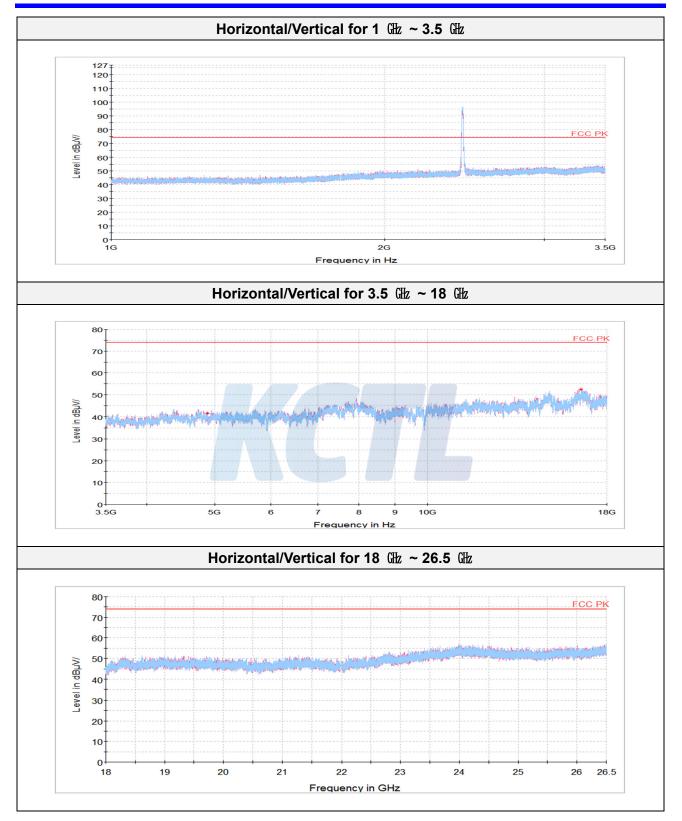
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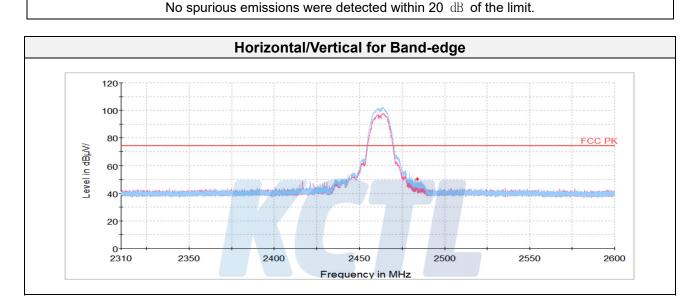
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#### 2 462 Mb

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(µN))	(dB)	(dB)	(dB)	(dB(µV/m))	(dB( <i>µ</i> V/ <b>m</b> ))	(dB)
Peak data								
2 483.98 <sup>1)</sup>	Н	47.62	32.07	-29.22	-	50.47	74.00	23.53
4 942.75 <sup>1)</sup>	V	64.05	33.98	-54.97	-	43.06	74.00	30.94
7 386.45 <sup>1)</sup>	Н	62.71	35.40	-52.41	-	45.70	74.00	28.30
				Average Data	a			



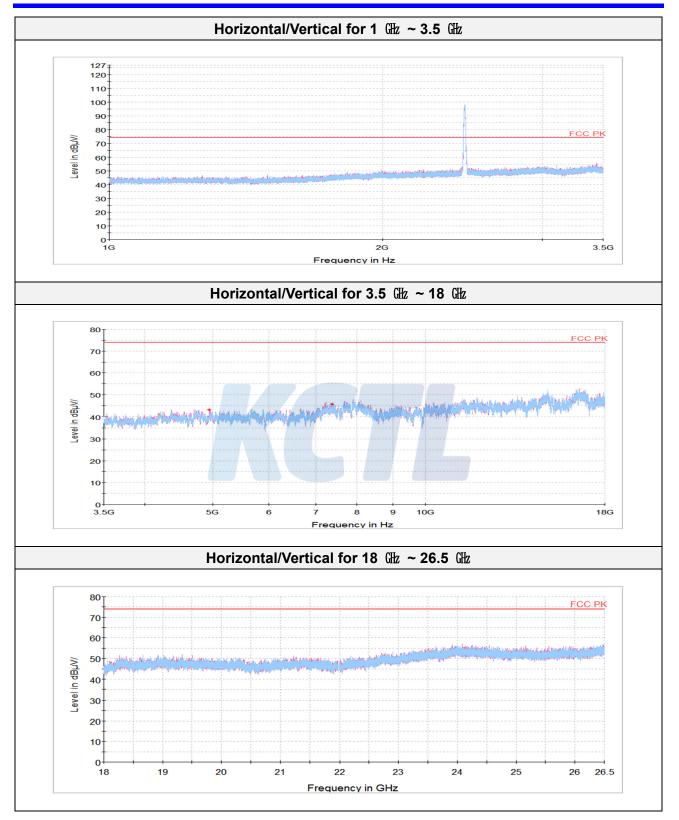
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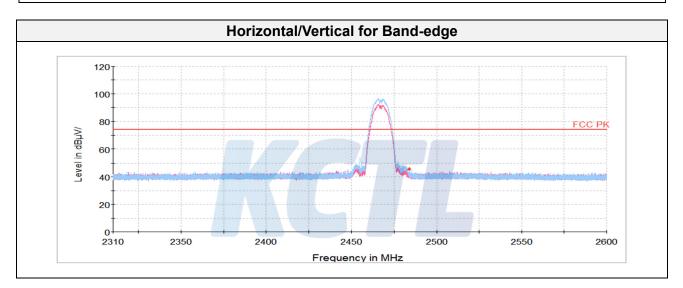


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-		
2	467	MHz

407 MLL	1		1						
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin	
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB( <i>µ</i> N/ <b>m</b> ))	(dB( <i>µ</i> V/ <b>m</b> ))	(dB)	
Peak data									
2 483.91 <sup>1)</sup>	Н	42.69	32.07	-29.21	-	45.55	74.00	28.45	
4 944.11 <sup>1)</sup>	V	62.96	33.98	-54.95	-	41.99	74.00	32.01	
7 397.78 <sup>1)</sup>	Н	62.61	35.40	-52.36	-	45.65	74.00	28.35	
16 582.17	V	57.34	41.58	-45.78	-	53.14	74.00	20.86	
	Average Data								

No spurious emissions were detected within 20 dB of the limit.



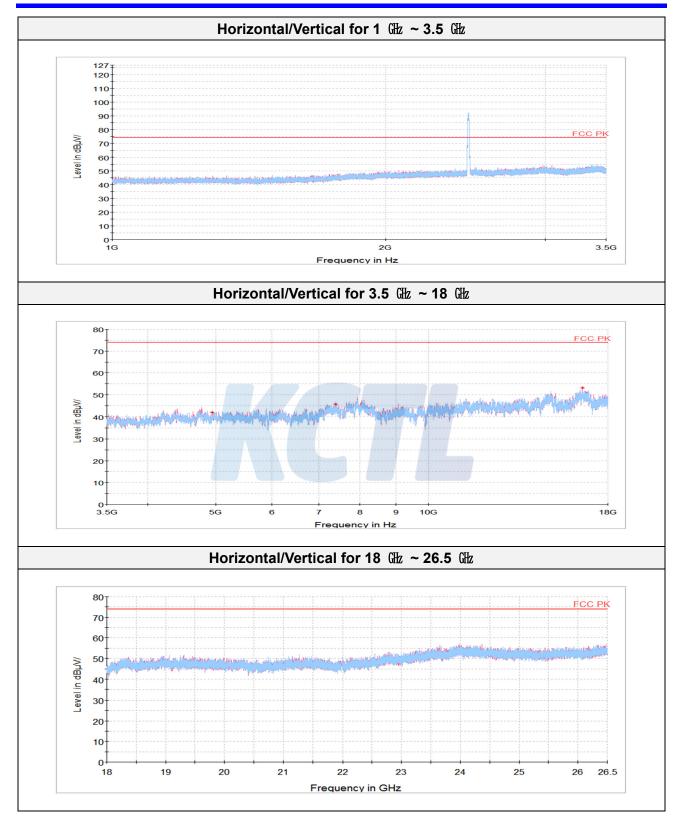
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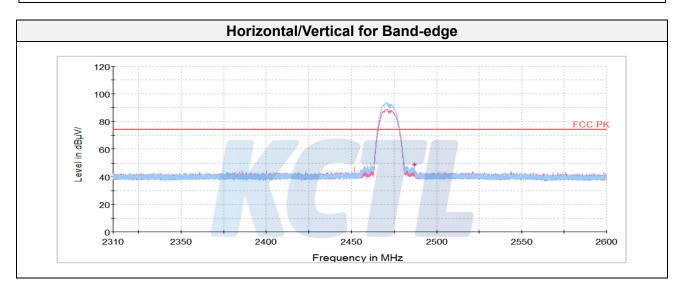


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2	472	MHz
~	<b>H</b> / <b>L</b>	NILL L

	-		-				-	-	
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin	
(MHz)	(V/H)	(dB(µN))	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(µV/m))	(dB)	
Peak data									
2 487.12 <sup>1)</sup>	н	45.91	32.07	-29.22	-	48.76	74.00	25.24	
4 954.08 <sup>1)</sup>	Н	63.05	33.98	-54.77	-	42.26	74.00	31.74	
7 410.92 <sup>1)</sup>	Н	61.55	35.40	-52.31	-	44.64	74.00	29.36	
16 867.64	V	58.32	41.87	-46.76	-	53.43	74.00	20.57	
	Average Data								

No spurious emissions were detected within 20  $\,\mathrm{dB}\,$  of the limit.



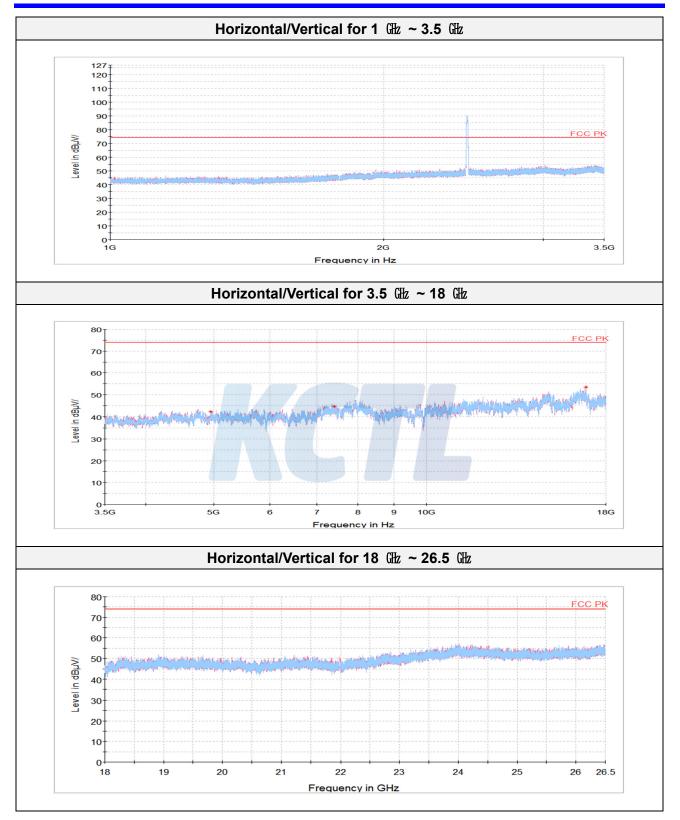
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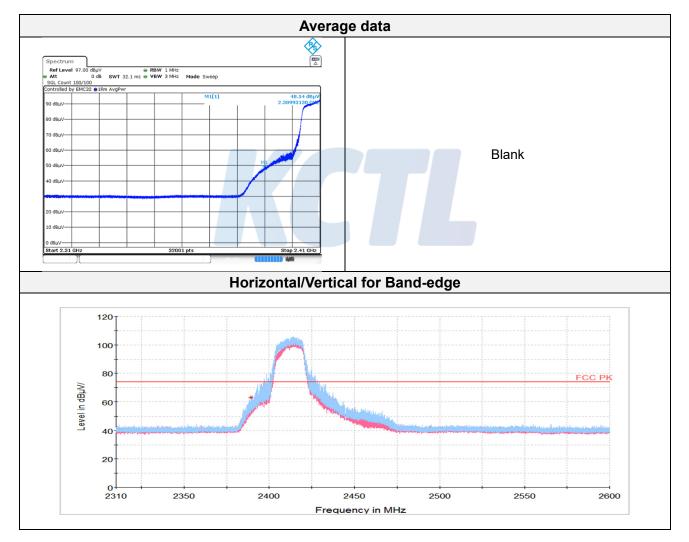


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### <u>802.11g</u>

#### 2412 M地

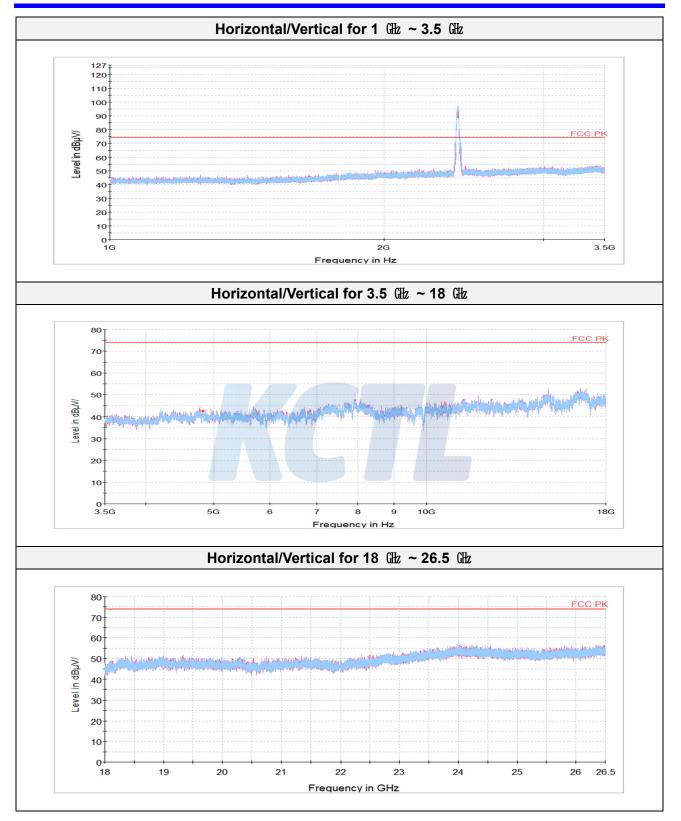
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin	
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB( <i>µ</i> N/ <b>m</b> ))	(dB( <i>µ</i> N/ <b>m</b> ))	(dB)	
Peak data									
2 389.93 <sup>1)</sup>	Н	60.14	31.88	-29.04	-	62.98	74.00	11.02	
4 825.39 <sup>1)</sup>	V	62.14	33.93	-53.62	-	42.45	74.00	31.55	
Average Data									
2 389.93 <sup>1)</sup>	Н	48.54	31.88	-29.04	0.39	51.77	54.00	2.23	



65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 <u>www.kctl.co.kr</u> Report No.: KR20-SRF0133-A



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#### 2 437 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin		
(MHz)	(V/H)	(dB(µN))	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(µV/m))	(dB)		
Peak data										
4 871.61 <sup>1)</sup>	Н	61.83	33.95	-54.93	-	40.85	74.00	33.15		
16 534.59	Н	56.11	41.53	-45.62	-	52.02	74.00	21.98		
Average Data										
	No spurious emissions were detected within 20 dB of the limit.									



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