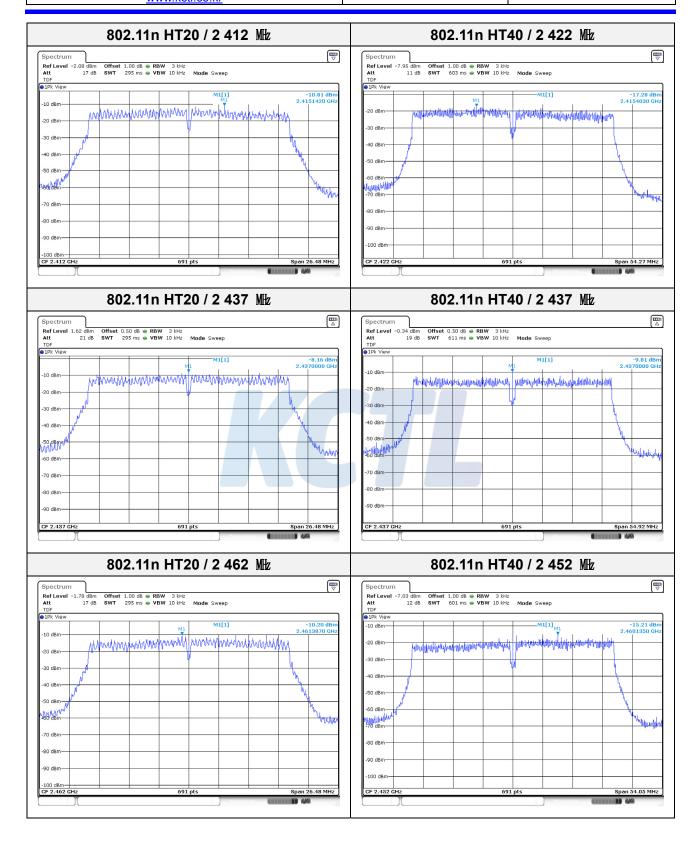
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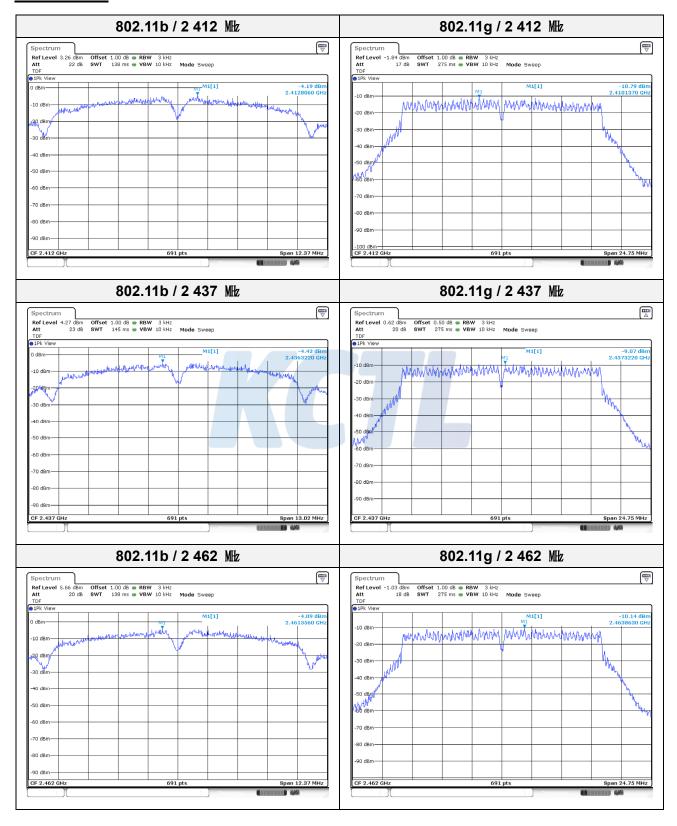
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### MIMO ANT 2



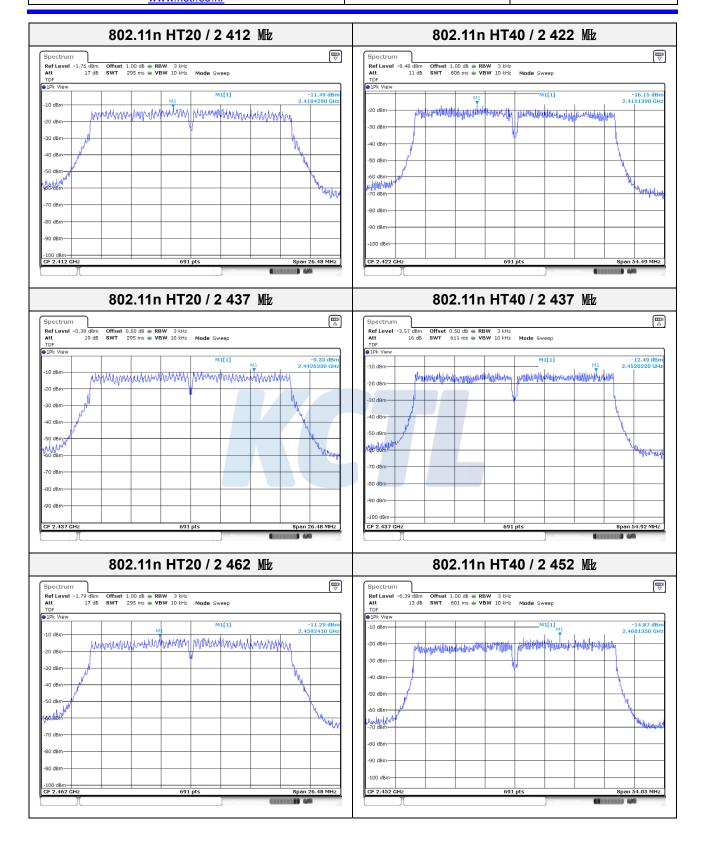
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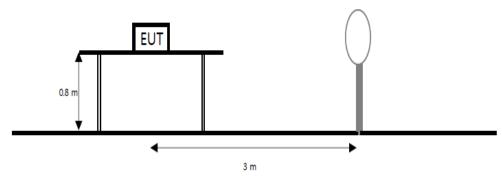
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# Spurious Emission, Band Edge and Restricted bands

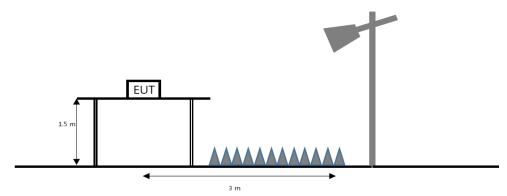
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



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



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



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### Limit

According to section 15.209(a), RSS-Gen(8.9) 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 (μV/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                        |

<sup>\*\*</sup>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 Mb, 76–88 Mb, 174–216 Mb or 470–806 Mb. 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), RSS-Gen(8.10) only spurious emissions are permitted in any of the frequency bands listed below:

| of the frequency barius 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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### **Test procedure**

ANSI C63.10-2013 - Section 6.6.4.3 KDB 558074 D01 v05r02 - Section 8.6, 8.7

### 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 ≥ (3×RBW)
- 4. Detector = peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Allow sweeps to continue until the trace stabilizes

Table. RBW as a function of frequency

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

### Average field strength measurements

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

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

- 1. RBW = 1 Mb (unless otherwise specified).
- 2. VBW ≥ (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  $\geq$  98%) cannot be achieved and the duty cycle is constant (duty cycle variations are less than  $\pm$ 2%), then the following procedure shall be used:

- 1. The EUT shall be configured to operate at the maximum achievable duty cycle.
- 2. Measure the duty cycle D of the transmitter output signal as described in 11.6.
- 3. RBW = 1 Mb (unless otherwise specified).
- 4.  $VBW \ge [3 \times RBW]$ .
- 5. Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ (RBW / 2). Satisfying this

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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.

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

### Notes:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 № for Peak detection and frequency above 1 №. 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)
- 2. *f* <30 Mb, extrapolation factor of 40 dB/decade of distance. F<sub>d</sub> = 40log(D<sub>m</sub>/Ds) *f* ≥30 Mb, extrapolation factor of 20 dB/decade of distance. F<sub>d</sub> = 20log(D<sub>m</sub>/Ds) Where:

 $F_d$ = Distance factor in dB

D<sub>m</sub>= Measurement distance in meters

D<sub>s</sub>= Specification distance in meters

- 3. Factors(dB) = Ant. Factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or  $F_d(dB)$
- 4. The worst-case emissions are reported however emissions whose levels were not within 20  $\,\mathrm{dB}$  of respective limits were not reported.
- 5. Average test would be performed if the peak result were greater than the average limit.
- 6. 1) means restricted band.
- 7. According to part 15.31(f)(2), an extrapolation factor of 40 dB/decade is applied because measured distance of radiated emission is 3 m.
- 8. Below 30 Mb frequency range, In order to search for the worst result, all orientations about parallel, perpendicular, and ground-parallel were investigated then reported. when the emission level was higher than 20 dB of the limit, then the following statement shall be made: "No spurious emissions were detected within 20 dB of the limit."

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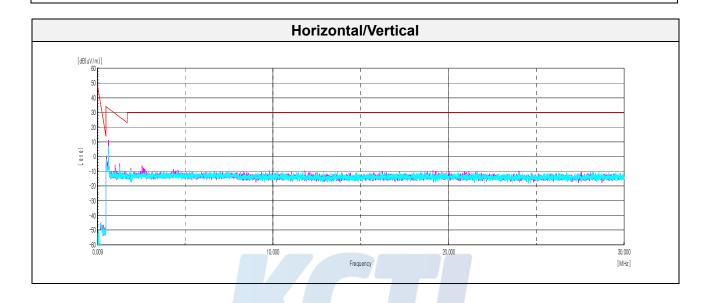
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Test results (Below 30 1 ) - Worst case: 802.11n HT20 / MIMO / 2 437 1 地

| Frequency | Pol.  | Reading  | Cable<br>Loss | Amp<br>Gain | Ant. Factor | DCCF | Result     | Limit               | Margin |
|-----------|-------|----------|---------------|-------------|-------------|------|------------|---------------------|--------|
| (MHz)     | (V/H) | (dB(μV)) | (dB)          | (dB)        | (dB)        | (dB) | (dB(μV/m)) | (dB(μV/ <b>m</b> )) | (dB)   |

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



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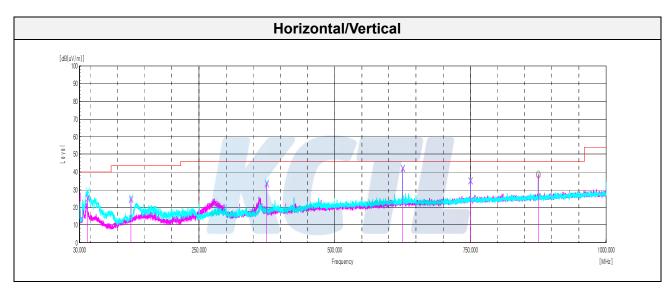
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Test results (Below 1 000 贮) - Worst case: 802.11n HT20 / MIMO / 2 437 贮

| Frequency            | Pol.            | Reading  | Ant. Factor | Amp. + Cable | DCCF | Result              | Limit               | Margin |  |  |  |  |  |
|----------------------|-----------------|----------|-------------|--------------|------|---------------------|---------------------|--------|--|--|--|--|--|
| (MHz)                | (V/H)           | (dB(μV)) | (dB)        | (dB)         | (dB) | (dB(μV/ <b>m</b> )) | (dB(μV/ <b>m</b> )) | (dB)   |  |  |  |  |  |
|                      | Quasi peak data |          |             |              |      |                     |                     |        |  |  |  |  |  |
| 45.16                | V               | 37.20    | 18.40       | -30.34       | -    | 25.26               | 40.00               | 14.74  |  |  |  |  |  |
| 124.94 <sup>1)</sup> | V               | 36.20    | 17.50       | -29.02       | -    | 24.68               | 43.50               | 18.82  |  |  |  |  |  |
| 374.96 <sup>1)</sup> | V               | 39.30    | 21.10       | -27.26       | -    | 33.14               | 46.00               | 12.86  |  |  |  |  |  |
| 625.10               | V               | 41.80    | 26.20       | -25.83       | -    | 42.17               | 46.00               | 3.83   |  |  |  |  |  |
| 750.10               | V               | 32.10    | 28.00       | -25.13       | -    | 34.97               | 46.00               | 11.03  |  |  |  |  |  |
| 875.11               | Н               | 33.90    | 29.00       | -24.52       | -    | 38.38               | 46.00               | 7.62   |  |  |  |  |  |



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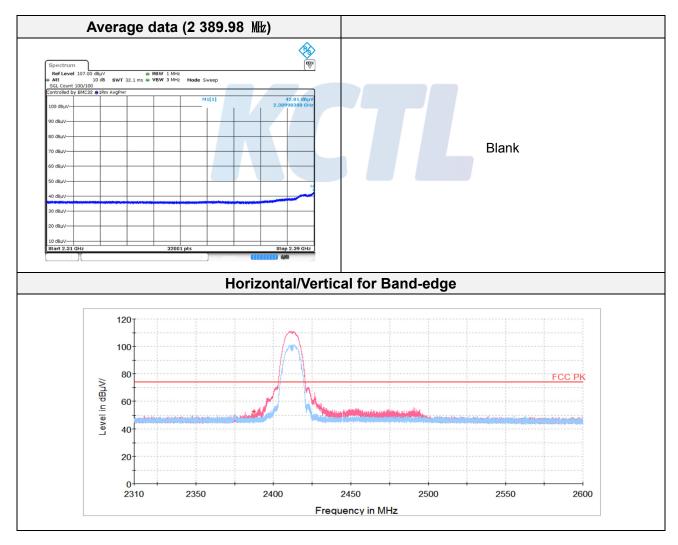
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# Test results (Above 1 000 Nb) 802.11b ANT 0

### Lowest Channel (2 412 脏)

| Frequency              | Pol.         | Reading  | Ant. Factor | Amp. + Cable | DCCF | Result     | Limit               | Margin |  |  |  |  |
|------------------------|--------------|----------|-------------|--------------|------|------------|---------------------|--------|--|--|--|--|
| (MHz)                  | (V/H)        | (dB(μV)) | (dB)        | (dB)         | (dB) | (dB(μV/m)) | (dB(μV/ <b>m</b> )) | (dB)   |  |  |  |  |
|                        |              |          |             | Peak data    |      |            |                     |        |  |  |  |  |
| 2 389.98 <sup>1)</sup> | V            | 49.48    | 31.88       | -29.04       | -    | 52.32      | 74.00               | 21.68  |  |  |  |  |
| 4 000.25 <sup>1)</sup> | V            | 70.62    | 33.00       | -56.65       | -    | 46.97      | 74.00               | 27.03  |  |  |  |  |
| 4 823.58 <sup>1)</sup> | Н            | 63.17    | 33.93       | -52.82       | -    | 44.28      | 74.00               | 29.72  |  |  |  |  |
| 7 237.38               | V            | 62.82    | 35.40       | -51.86       | -    | 46.36      | 74.00               | 27.64  |  |  |  |  |
|                        | Average Data |          |             |              |      |            |                     |        |  |  |  |  |
| 2 389.981)             | V            | 42.81    | 31.88       | -29.04       | 0.22 | 45.87      | 54.00               | 8.13   |  |  |  |  |



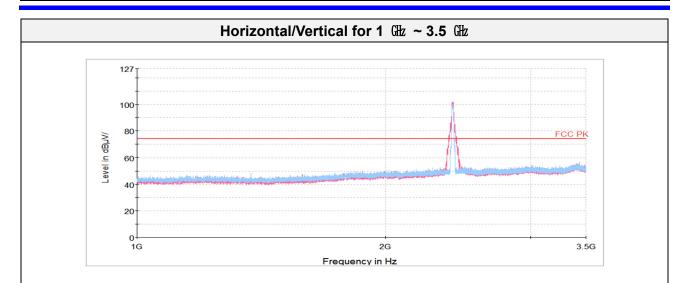
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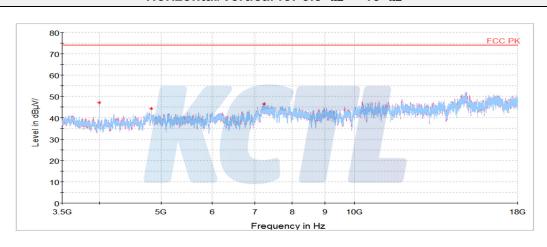
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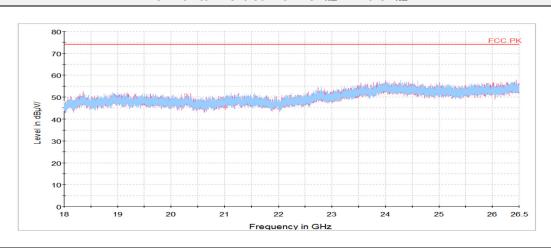




### Horizontal/Vertical for 3.5 ∰ ~ 18 ∰



### Horizontal/Vertical for 18 础 ~ 26.5 础



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### Middle Channel (2 437 Mb)

| Frequency    | Pol.  | Reading    | Ant. Factor | Amp. + Cable  | DCCF      | Result         | Limit      | Margin |  |  |  |
|--------------|-------|------------|-------------|---------------|-----------|----------------|------------|--------|--|--|--|
| (MHz)        | (V/H) | (dB(μV))   | (dB)        | (dB)          | (dB)      | (dB(μV/m))     | (dB(μV/m)) | (dB)   |  |  |  |
|              |       |            |             | Peak data     |           |                |            |        |  |  |  |
| 3 999.801)   | Н     | 70.38      | 33.00       | -56.65        | -         | 46.73          | 74.00      | 27.27  |  |  |  |
| 4 873.881)   | V     | 65.52      | 33.95       | -54.20        | -         | 45.27          | 74.00      | 28.73  |  |  |  |
| 7 309.881)   | Н     | 65.65      | 35.40       | -51.51        | -         | 49.54          | 74.00      | 24.46  |  |  |  |
| 9 748.14     | V     | 66.73      | 36.70       | -52.53        | -         | 50.90          | 74.00      | 23.10  |  |  |  |
| Average Data |       |            |             |               |           |                |            |        |  |  |  |
|              |       | No spuriou | s emissions | were detected | within 20 | dB of the limi | it         |        |  |  |  |



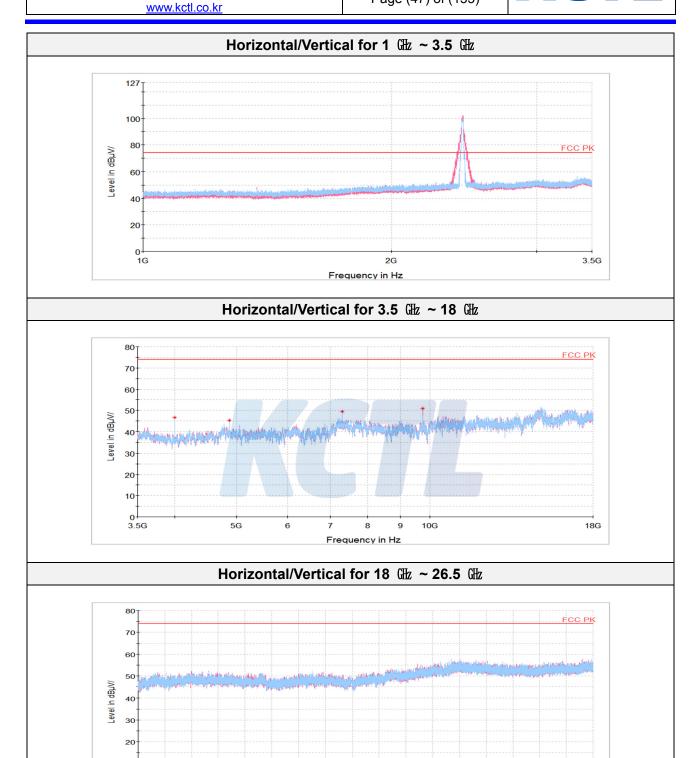
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Frequency in GHz

10

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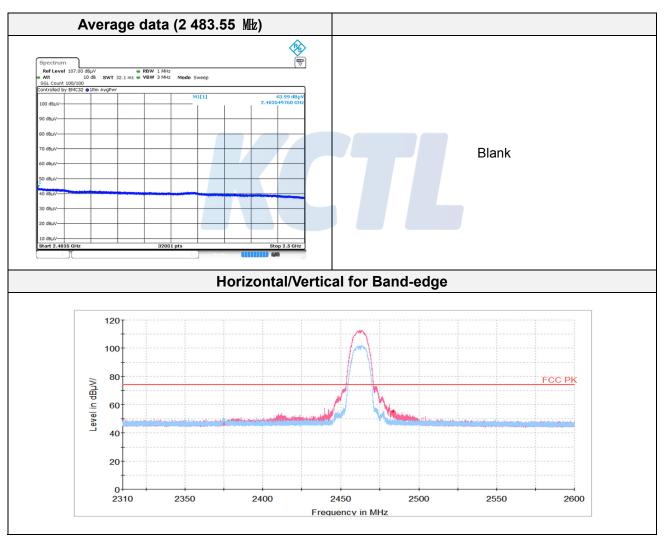
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Highest Channel (2 462 順)

| Frequency  | Pol.         | Reading  | Ant. Factor | Amp. + Cable | DCCF | Result     | Limit      | Margin |  |  |  |  |  |
|------------|--------------|----------|-------------|--------------|------|------------|------------|--------|--|--|--|--|--|
| (MHz)      | (V/H)        | (dB(μV)) | (dB)        | (dB)         | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |  |  |  |  |  |
|            | Peak data    |          |             |              |      |            |            |        |  |  |  |  |  |
| 2 483.551) | V            | 52.25    | 32.07       | -29.21       | -    | 55.11      | 74.00      | 18.89  |  |  |  |  |  |
| 3 999.801) | Н            | 65.76    | 33.00       | -56.65       | -    | 42.11      | 74.00      | 31.89  |  |  |  |  |  |
| 4 923.721) | Н            | 62.26    | 33.97       | -54.88       | -    | 41.35      | 74.00      | 32.65  |  |  |  |  |  |
| 7 386.001) | V            | 60.03    | 35.40       | -51.13       | -    | 44.30      | 74.00      | 29.70  |  |  |  |  |  |
|            | Average Data |          |             |              |      |            |            |        |  |  |  |  |  |
| 2 483.551) | V            | 43.99    | 32.07       | -29.21       | 0.22 | 47.07      | 54.00      | 6.93   |  |  |  |  |  |



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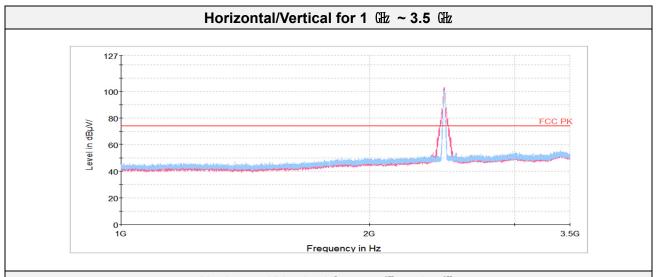
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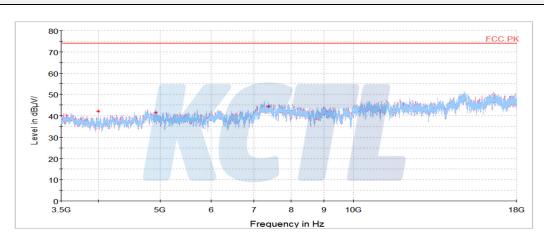
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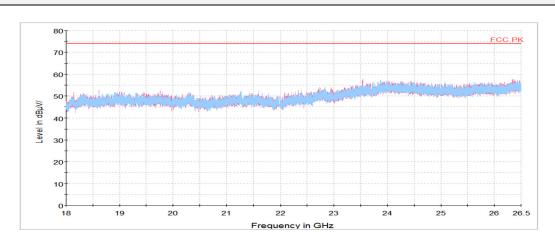
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### Horizontal/Vertical for 3.5 础 ~ 18 础



### Horizontal/Vertical for 18 础 ~ 26.5 础



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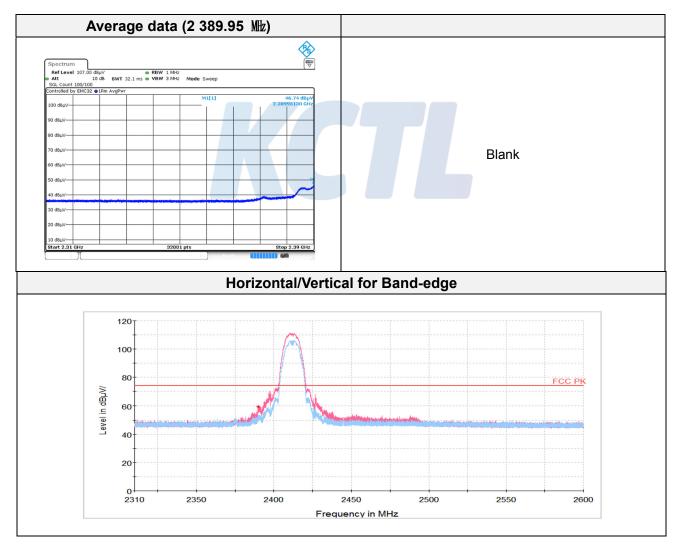


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### 802.11b ANT 1

Lowest Channel (2 412 脏)

| Frequency    | Pol.  | Reading  | Ant. Factor | Amp. + Cable | DCCF | Result              | Limit      | Margin |  |  |  |
|--------------|-------|----------|-------------|--------------|------|---------------------|------------|--------|--|--|--|
| (MHz)        | (V/H) | (dB(μV)) | (dB)        | (dB)         | (dB) | (dB(μV/ <b>m</b> )) | (dB(μV/m)) | (dB)   |  |  |  |
|              | •     |          |             | Peak data    |      |                     |            |        |  |  |  |
| 2 389.951)   | V     | 56.47    | 31.88       | -29.04       | -    | 59.31               | 74.00      | 14.69  |  |  |  |
| 3 999.801)   | Н     | 69.20    | 33.00       | -56.65       | -    | 45.55               | 74.00      | 28.45  |  |  |  |
| 4 824.031)   | Н     | 69.26    | 33.93       | -52.83       | -    | 50.36               | 74.00      | 23.64  |  |  |  |
| 7 234.20     | V     | 64.04    | 35.40       | -51.88       | -    | 47.56               | 74.00      | 26.44  |  |  |  |
| Average Data |       |          |             |              |      |                     |            |        |  |  |  |
| 2 389.951)   | V     | 46.74    | 31.88       | -29.04       | 0.22 | 49.80               | 54.00      | 4.20   |  |  |  |



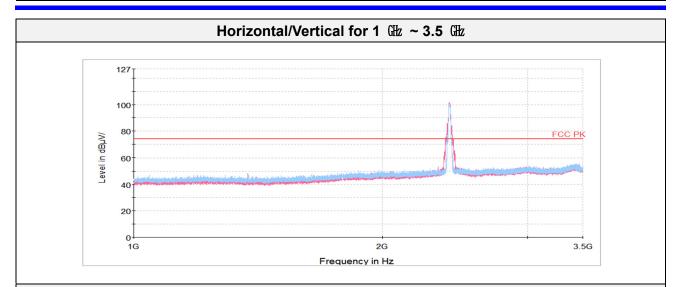
65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311

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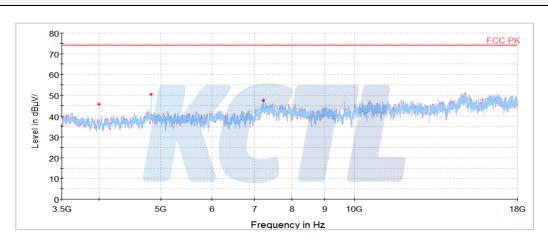
### Report No.: KR20-SRF0029-B

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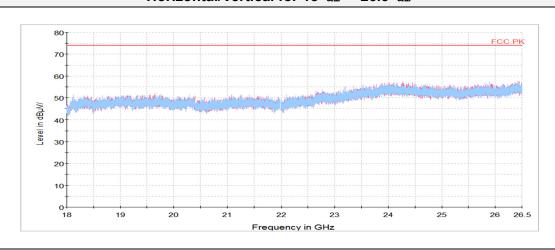








### Horizontal/Vertical for 18 ∰ ~ 26.5 ∰



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### Middle Channel (2 437 账)

| Frequency              | Pol.         | Reading    | Ant. Factor | Amp. + Cable  | DCCF          | Result              | Limit               | Margin |  |  |  |  |
|------------------------|--------------|------------|-------------|---------------|---------------|---------------------|---------------------|--------|--|--|--|--|
| (MHz)                  | (V/H)        | (dB(μV))   | (dB)        | (dB)          | (dB)          | (dB(μV/ <b>m</b> )) | (dB(μV/ <b>m</b> )) | (dB)   |  |  |  |  |
|                        |              |            |             | Peak data     |               |                     |                     |        |  |  |  |  |
| 3 999.80 <sup>1)</sup> | V            | 69.48      | 33.00       | -56.65        | 1             | 45.83               | 74.00               | 28.17  |  |  |  |  |
| 4 873.88 <sup>1)</sup> | Н            | 68.70      | 33.95       | -54.20        | -             | 48.45               | 74.00               | 25.55  |  |  |  |  |
| 7 309.881)             | V            | 65.89      | 35.40       | -51.51        | -             | 49.78               | 74.00               | 24.22  |  |  |  |  |
| 9 748.14               | V            | 65.32      | 36.70       | -52.53        | -             | 49.49               | 74.00               | 24.51  |  |  |  |  |
|                        | Average Data |            |             |               |               |                     |                     |        |  |  |  |  |
|                        | I            | No spuriou | s emissions | were detected | l within 20 c | B of the limi       | t                   |        |  |  |  |  |



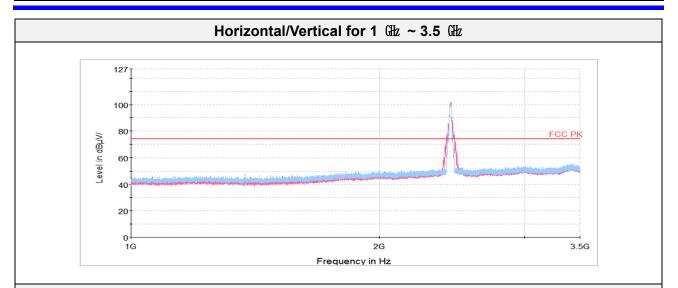
65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311

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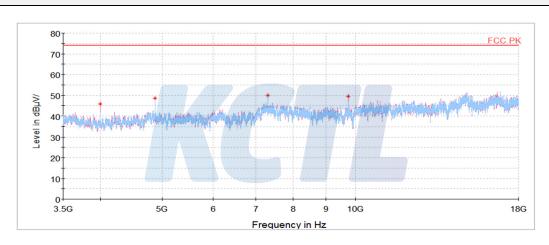
Report No.: KR20-SRF0029-B

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### Horizontal/Vertical for 3.5 ∰ ~ 18 ∰



### Horizontal/Vertical for 18 础 ~ 26.5 础

