



# FCC Test Report

APPLICANT : Nokia Shanghai Bell Co., Ltd.  
EQUIPMENT : NOKIA WiFi Beacon 19  
BRAND NAME : NOKIA  
MODEL NAME : Beacon 19  
FCC ID : 2ADZRBEACON19  
STANDARD : 47 CFR Part 15 Subpart B  
CLASSIFICATION : Certification  
TEST DATE(S) : May 27, 2024 ~ Jun. 06, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FC452305   | Rev. 01 | Initial issue of report | Aug. 12, 2024 |
|            |         |                         |               |
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|            |         |                         |               |



## SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description           | Limit           | Result | Remark                                   |
|----------------|----------|-----------------------|-----------------|--------|------------------------------------------|
| 3.1            | 15.107   | AC Conducted Emission | < 15.107 limits | PASS   | Under limit<br>11.88 dB at<br>0.156 MHz  |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>4.20 dB at<br>250.190 MHz |

**Conformity Assessment Condition:**

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



## 1. General Description

### 1.1. Applicant

Nokia Shanghai Bell Co., Ltd.

No.388, Ningqiao Rd, Pilot Free Trade Zone, Shanghai, 201206 P.R. China

### 1.2. Manufacturer

Nokia of America Corporation

2301 Sugar Bush Rd. Raleigh, NC 27612

### 1.3. Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | NOKIA WiFi Beacon 19                                                                                                                                                                                                                                                                                                                                                                                  |
| Brand Name                      | NOKIA                                                                                                                                                                                                                                                                                                                                                                                                 |
| Model Name                      | Beacon 19                                                                                                                                                                                                                                                                                                                                                                                             |
| FCC ID                          | 2ADZRBEACON19                                                                                                                                                                                                                                                                                                                                                                                         |
| EUT supports Radios application | WLAN 2.4GHz 802.11b/g/n (HT20/HT40)<br>WLAN 2.4GHz 802.11ax (HE20/HE40)<br>WLAN 2.4GHz 802.11be (EHT20/ EHT40)<br>WLAN 5GHz 802.11a/n (HT20/HT40)<br>WLAN 5GHz 802.11ac (VHT20/VHT40/VHT80/VHT160)<br>WLAN 5GHz 802.11ax (HE20/HE40/HE80/HE160)<br>WLAN 5GHz 802.11be (EHT20/EHT40/EHT80/EHT160)<br>WLAN 6GHz 802.11ax (HE20/HE40/HE80/HE160)<br>WLAN 6GHz 802.11be (EHT20/EHT40/EHT80/EHT160/EHT320) |
| SN Code                         | Conduction: ALCLEB401AC1 for Sample 1<br>Radiation:<br>ALCLEB401AC1 for Sample 1<br>ALCLEB401AC2 for Sample 2                                                                                                                                                                                                                                                                                         |
| EUT Stage                       | Production Unit                                                                                                                                                                                                                                                                                                                                                                                       |

#### Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples under test, sample 1 is Inpaq antenna and sample 2 is AOT antenna. According to the difference, we choose sample 1 to full test and the sample 2 is verified for the difference for Radiation.

| Power Adapter |              |                                              |            |                         |
|---------------|--------------|----------------------------------------------|------------|-------------------------|
| AC Adapter 1  | Brand Name   | HONOR                                        | Model Name | ADS-40FKJ-12N 12036EPCU |
|               | Power Rating | I/P: 100-240 Vac, 1000mA , O/P: 12Vdc,3000mA |            |                         |
| AC Adapter 2  | Brand Name   | KELI                                         | Model Name | KL-WA120300-A1          |
|               | Power Rating | I/P: 100-240 Vac, 2000mA, O/P: 12Vdc,3000mA  |            |                         |

## 1.4. Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | WLAN 802.11b/g/n/ax/be: 2400 MHz – 2483.5 MHz<br>WLAN 802.11a/n/ac/ax/be: 5150 MHz – 5250 MHz;<br>5250 MHz – 5350 MHz;<br>5470 MHz – 5725 MHz;<br>5725 MHz – 5850 MHz<br>802.11ax/be: 6105 MHz – 7125 MHz                                                                                       |
| <b>Rx Frequency</b>                     | WLAN 802.11b/g/n/ax/be: 2400 MHz – 2483.5 MHz<br>WLAN 802.11a/n/ac/ax/be: 5150 MHz – 5250 MHz;<br>5250 MHz – 5350 MHz;<br>5470 MHz – 5725 MHz;<br>5725 MHz – 5850 MHz<br>802.11ax/be: 6105 MHz – 7125 MHz                                                                                       |
| <b>Antenna Type</b>                     | WLAN: Dipole Antenna                                                                                                                                                                                                                                                                            |
| <b>Type of Modulation</b>               | 802.11b: DSSS (DBPSK / DQPSK / CCK)<br>802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)<br>802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)<br>802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM) |

## 1.5. Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6. Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                           |                                                                                                                                                |                            |                                       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (Kunshan)                                                                                                           |                            |                                       |
| <b>Test Site Location</b> | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                        | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | CO01-KS<br>03CH02-KS                                                                                                                           | CN1257                     | 314309                                |

## 1.7. Test Software

| Item | Site      | Manufacturer | Name | Version       |
|------|-----------|--------------|------|---------------|
| 1.   | 03CH02-KS | AUDIX        | E3   | 6.2009-8-24al |
| 2.   | CO01-KS   | AUDIX        | E3   | 6.2009-8-24   |

## 1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart B
- ♦ ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 2. Test Configuration of Equipment Under Test

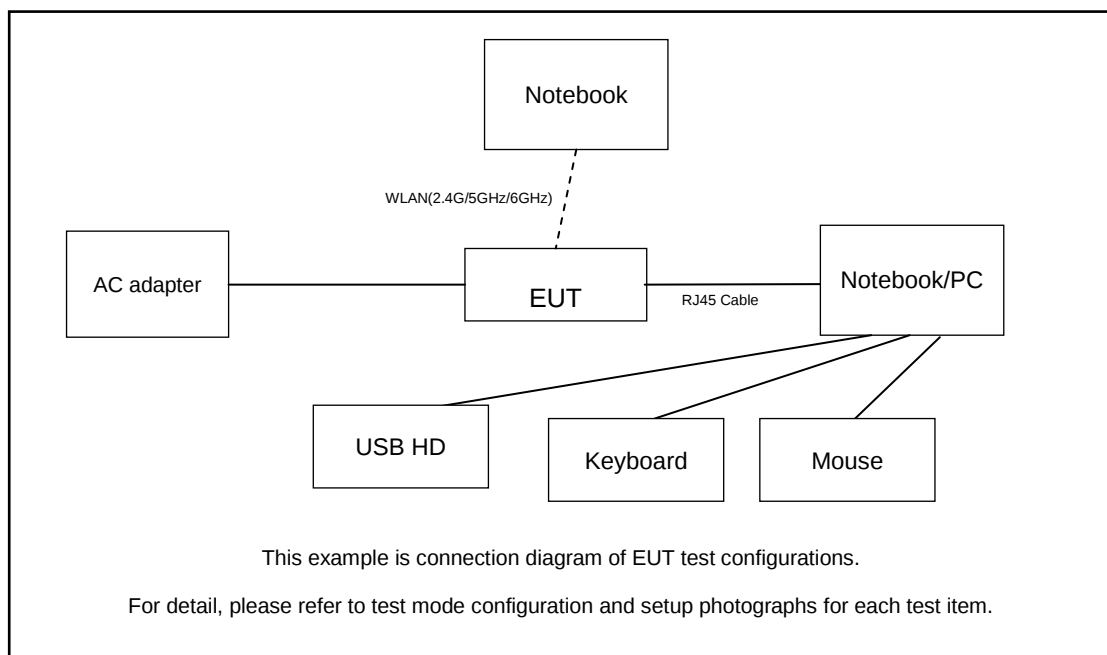
### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

| Test Items                                                                                                                                                                                                                                | Function Type                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Conducted Emission                                                                                                                                                                                                                     | Mode 1: WIFI IDLE + Lan1/LAN2/LAN3 Link With NB + WAN Link with NB + Power from Adapter1 for Sample1<br>Mode 2: WIFI IDLE + Lan1/LAN2/LAN3 Link With NB + WAN Link with NB + Power from Adapter2 for Sample1                                                                                                         |
| Radiated Emissions                                                                                                                                                                                                                        | Mode 1: WIFI IDLE + Lan1/LAN2/LAN3 Link With NB + WAN Link with NB + Power from Adapter1 for Sample1<br>Mode 2: WIFI IDLE + Lan1/LAN2/LAN3 Link With NB + WAN Link with NB + Power from Adapter2 for Sample1<br>Mode 3: WIFI IDLE + Lan1/LAN2/LAN3 Link With NB + WAN Link with NB + Power from Adapter2 for Sample2 |
| <b>Remark:</b><br><ol style="list-style-type: none"><li>1. The worst case of AC is mode 2; only the test data of this mode is reported.</li><li>2. The worst case of RE is mode 2; only the test data of this mode is reported.</li></ol> |                                                                                                                                                                                                                                                                                                                      |

## 2.2.Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

## 2.3. Support Unit used in test configuration and system

| Item | Equipment     | Trade Name | Model Name  | FCC ID        | Data Cable     | Power Cord                                                    |
|------|---------------|------------|-------------|---------------|----------------|---------------------------------------------------------------|
| 1.   | Notebook      | Lenovo     | G480        | QDS-BRCM1050I | N/A            | shielded cable DC O/P 1.8m ,<br>Unshielded AC I/P cable 1.8m  |
| 2.   | PC            | Adwantech  | IPC-610MB-L | KA21R655B1    | N/A            | Unshielded,1.8m                                               |
| 3.   | (USB)Mouse    | Lenovo     | OEJUOA      | Fcc DoC       | Shielded, 1.8m | N/A                                                           |
| 4.   | (USB)Keyboard | Lenovo     | SK-8821     | Fcc DoC       | Shielded, 1.8m | N/A                                                           |
| 5.   | Notebook      | Lenovo     | G410        | N/A           | N/A            | shielded cable DC O/P 1.80m ,<br>Unshielded AC I/P cable 0.9m |
| 6.   | Hard disk     | WD         | Elements    | N/A           | N/A            | N/A                                                           |
| 7.   | Monitor       | Lenovo     | LS2033wA    | Fcc DoC       | N/A            | Unshielded,1.8m                                               |
| 8.   | RJ45 Cable    | N/A        | N/A         | N/A           | N/A            | Unshielded                                                    |
| 9.   | RJ45 Cable    | N/A        | N/A         | N/A           | N/A            | Shielded                                                      |



## **2.4. EUT Operation Test Setup**

At the same time, the following programs installed in the EUT were programmed during the test.

The Notebook WLAN link the EUT via Wi-Fi network;

The Notebook LAN link the EUT via RJ-45 Cable;

The Notebook WAN link the EUT via RJ-45 Cable;

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1. Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

| Frequency of emission<br>(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        |

\*Decreases with the logarithm of the frequency.

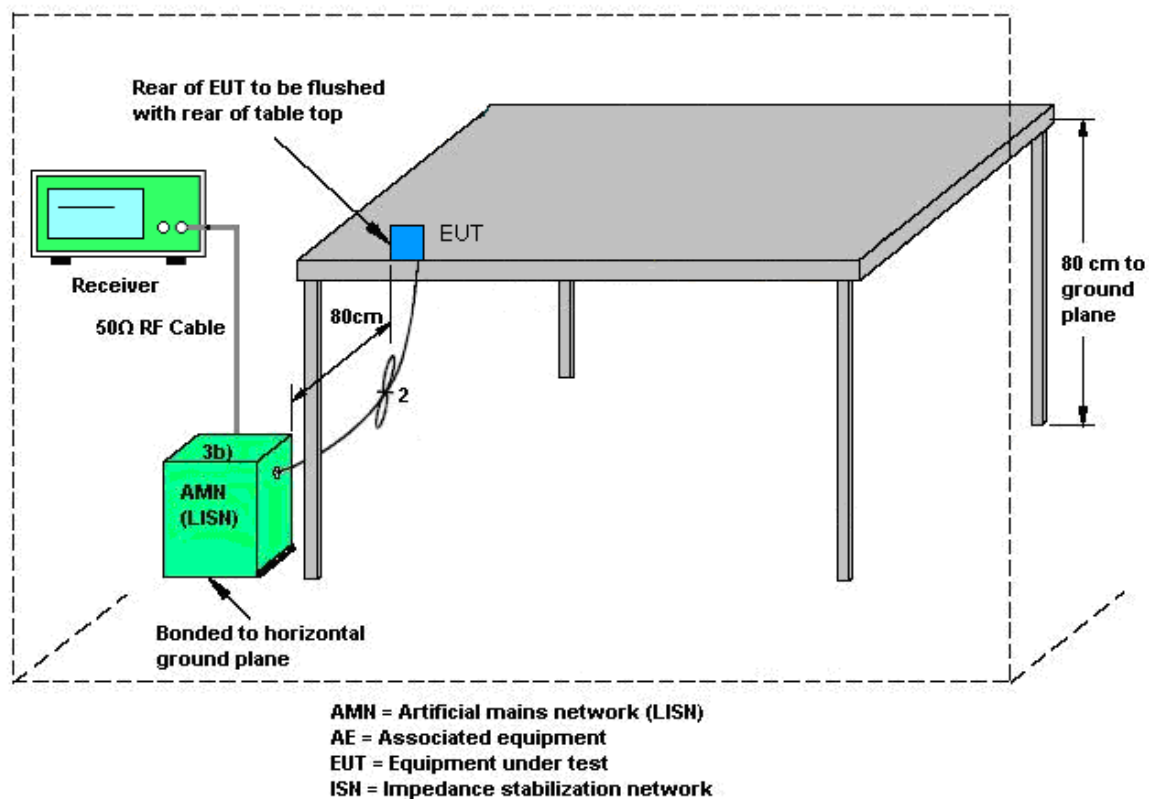
##### 3.1.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3. Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

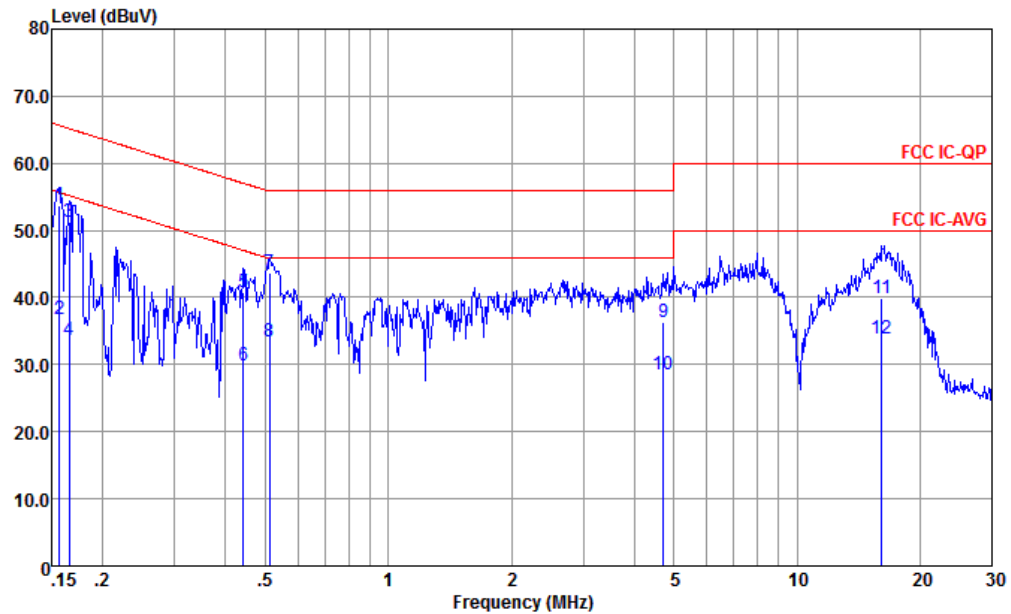
### 3.1.4. Test Setup





## 3.1.5. Test Result of AC Conducted Emission

|                 |                                                                                 |                     |             |
|-----------------|---------------------------------------------------------------------------------|---------------------|-------------|
| Test Engineer : | Amos                                                                            | Temperature :       | 25.3~26.2°C |
|                 |                                                                                 | Relative Humidity : | 38~40%      |
| Test Voltage :  | 120Vac / 60Hz                                                                   | Phase :             | Line        |
| Remark :        | All emissions not reported here are more than 10 dB below the prescribed limit. |                     |             |

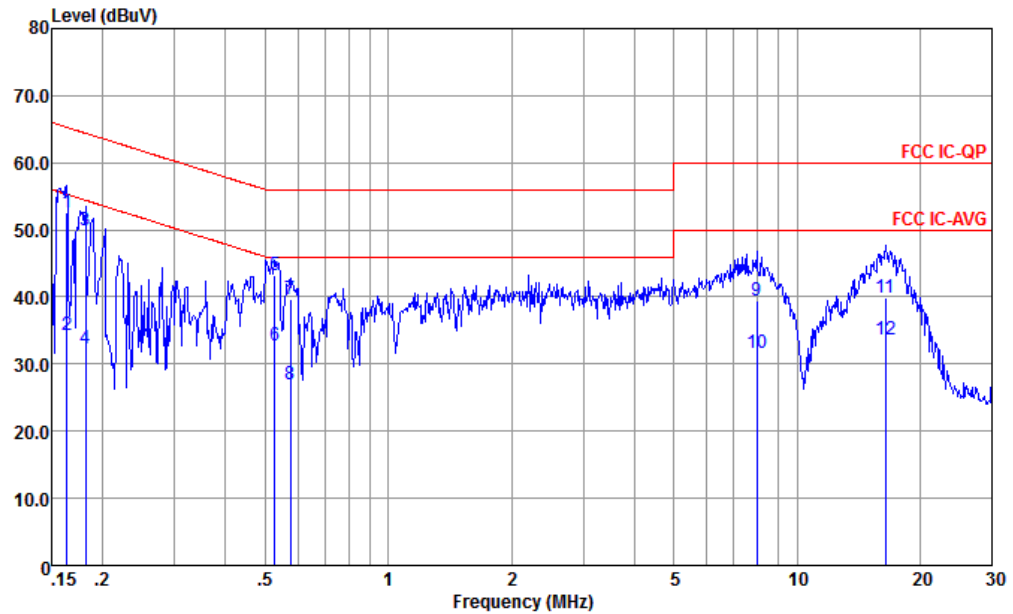


Site : CO01-KS  
Condition : FCC IC-QP LISN-060105-L 2023 LINE

|     | Freq   | Level | Over   | Limit | Read  | LISN   | Cable | Remark  |
|-----|--------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz    | dBuV  | Limit  | Line  | Level | Factor | Loss  |         |
|     |        |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1 * | 0.156  | 53.77 | -11.88 | 65.65 | 43.30 | 0.05   | 10.42 | QP      |
| 2   | 0.156  | 36.67 | -18.98 | 55.65 | 26.20 | 0.05   | 10.42 | Average |
| 3   | 0.166  | 51.26 | -13.90 | 65.16 | 40.80 | 0.04   | 10.42 | QP      |
| 4   | 0.166  | 33.66 | -21.50 | 55.16 | 23.20 | 0.04   | 10.42 | Average |
| 5   | 0.442  | 40.74 | -16.28 | 57.02 | 30.50 | -0.01  | 10.25 | QP      |
| 6   | 0.442  | 29.84 | -17.18 | 47.02 | 19.60 | -0.01  | 10.25 | Average |
| 7   | 0.513  | 43.68 | -12.32 | 56.00 | 33.50 | -0.03  | 10.21 | QP      |
| 8   | 0.513  | 33.48 | -12.52 | 46.00 | 23.30 | -0.03  | 10.21 | Average |
| 9   | 4.721  | 36.43 | -19.57 | 56.00 | 26.50 | -0.13  | 10.06 | QP      |
| 10  | 4.721  | 28.53 | -17.47 | 46.00 | 18.60 | -0.13  | 10.06 | Average |
| 11  | 16.140 | 39.86 | -20.14 | 60.00 | 28.80 | -0.18  | 11.24 | QP      |
| 12  | 16.140 | 33.96 | -16.04 | 50.00 | 22.90 | -0.18  | 11.24 | Average |



|                        |                                                                                 |                            |             |
|------------------------|---------------------------------------------------------------------------------|----------------------------|-------------|
| <b>Test Engineer :</b> | Amos                                                                            | <b>Temperature :</b>       | 25.3-26.2°C |
|                        |                                                                                 | <b>Relative Humidity :</b> | 38~40%      |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                   | <b>Phase :</b>             | Neutral     |
| <b>Remark :</b>        | All emissions not reported here are more than 10 dB below the prescribed limit. |                            |             |



Site : CO01-KS  
Condition : FCC IC-QP LISN-060105-N 2023 NEUTRAL

|     | Freq   | Level | Over   | Limit | Read  | LISN   | Cable | Remark  |
|-----|--------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz    | dBuV  | Limit  | Line  | Level | Factor | Loss  |         |
|     |        |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1   | 0.163  | 52.56 | -12.74 | 65.30 | 42.10 | 0.04   | 10.42 | QP      |
| 2   | 0.163  | 34.26 | -21.04 | 55.30 | 23.80 | 0.04   | 10.42 | Average |
| 3   | 0.182  | 49.96 | -14.46 | 64.42 | 39.50 | 0.05   | 10.41 | QP      |
| 4   | 0.182  | 32.36 | -22.06 | 54.42 | 21.90 | 0.05   | 10.41 | Average |
| 5 * | 0.527  | 43.34 | -12.66 | 56.00 | 33.20 | -0.07  | 10.21 | QP      |
| 6   | 0.527  | 32.74 | -13.26 | 46.00 | 22.60 | -0.07  | 10.21 | Average |
| 7   | 0.576  | 39.72 | -16.28 | 56.00 | 29.60 | -0.07  | 10.19 | QP      |
| 8   | 0.576  | 27.02 | -18.98 | 46.00 | 16.90 | -0.07  | 10.19 | Average |
| 9   | 7.977  | 39.47 | -20.53 | 60.00 | 29.21 | -0.14  | 10.40 | QP      |
| 10  | 7.977  | 31.57 | -18.43 | 50.00 | 21.31 | -0.14  | 10.40 | Average |
| 11  | 16.486 | 39.90 | -20.10 | 60.00 | 28.80 | -0.15  | 11.25 | QP      |
| 12  | 16.486 | 33.70 | -16.30 | 50.00 | 22.60 | -0.15  | 11.25 | Average |

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

**<Class B Limit>**

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

### 3.2.2. Measuring Instruments

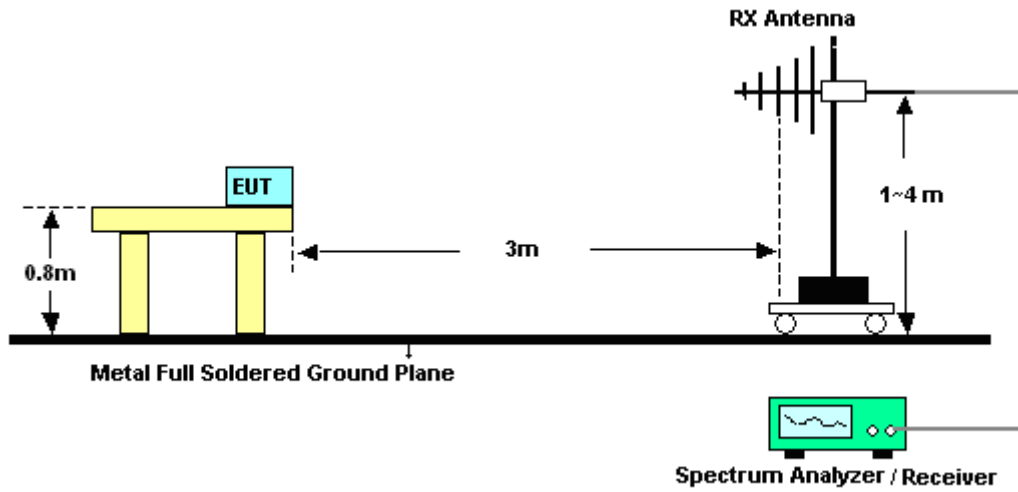
The measuring equipment is listed in the section 4 of this test report.

### 3.2.3. Test Procedures

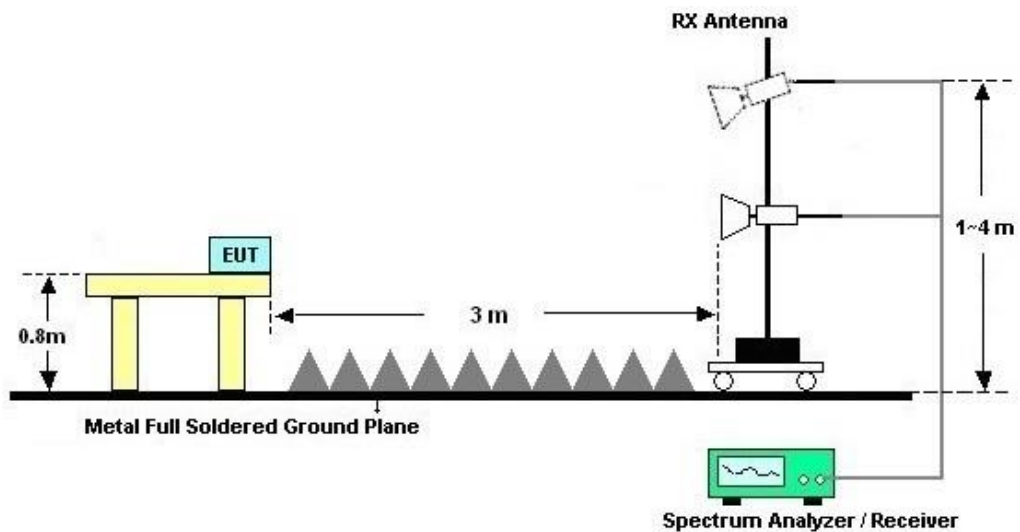
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

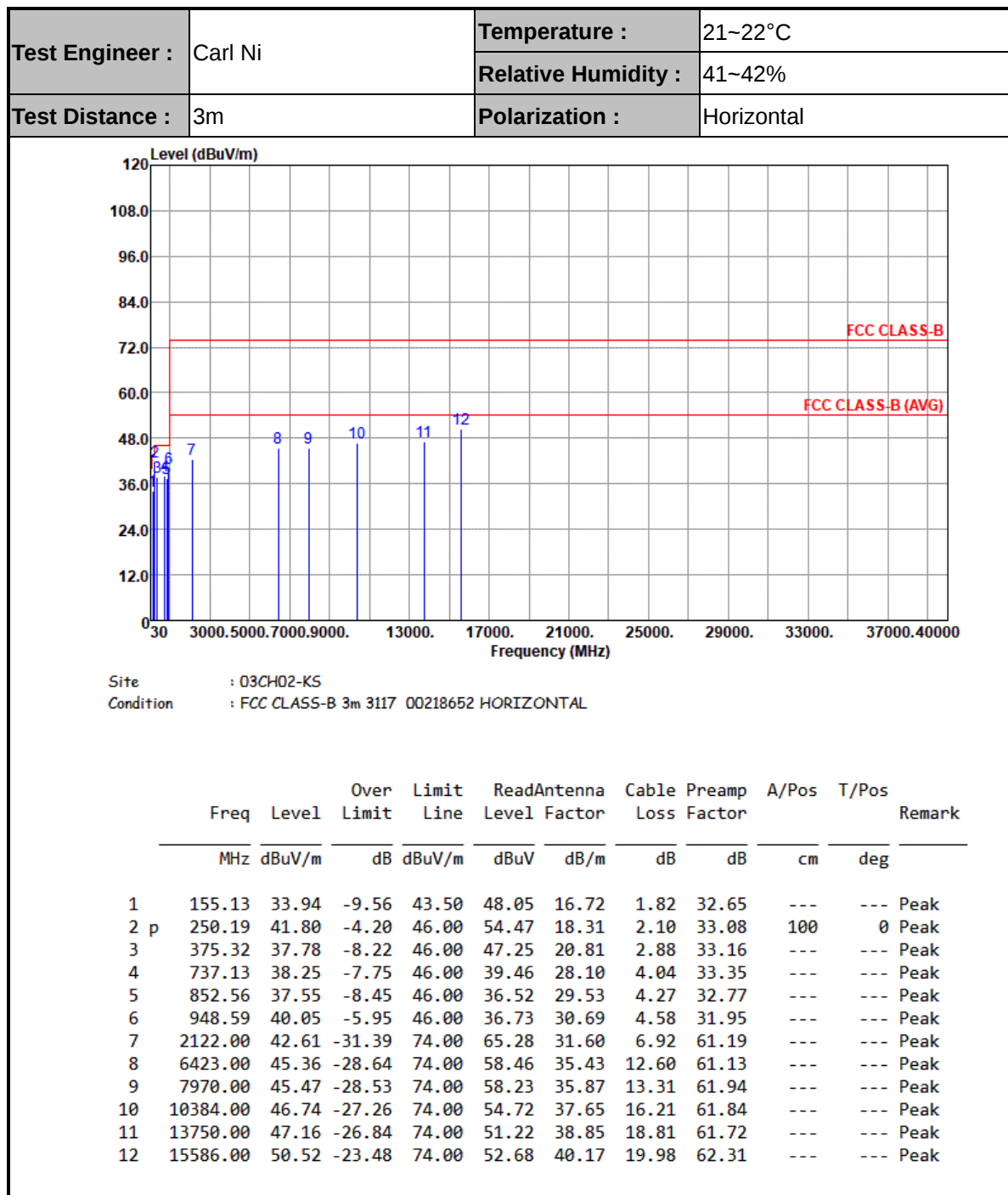


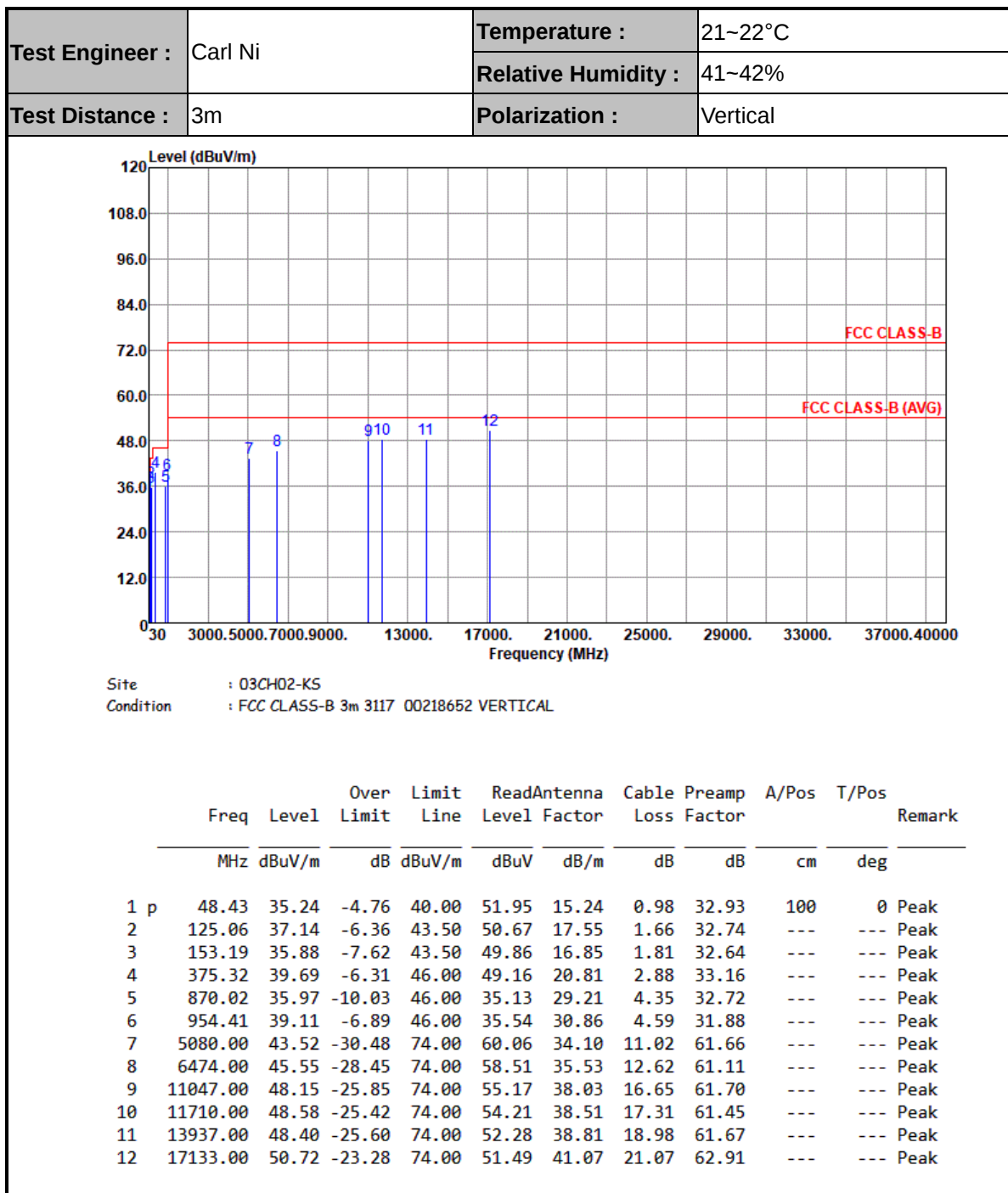
For radiated emissions above 1GHz





## 3.2.5. Test Result of Radiated Emission





Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



## 4. List of Measuring Equipment

| Instrument                        | Manufacturer | Model No.  | Serial No.   | Characteristics         | Calibration Date | Test Date     | Due Date      | Remark                |
|-----------------------------------|--------------|------------|--------------|-------------------------|------------------|---------------|---------------|-----------------------|
| EMI Test Receiver                 | R&S          | ESR7       | 101403       | 9kHz~7GHz;Max 30dBm     | Oct. 10, 2023    | May 27, 2024  | Oct. 09, 2024 | Radiation (03CH02-KS) |
| EXA Spectrum Analyzer             | Keysight     | N9010A     | MY55370528   | 10Hz~44G,MAX 30dB       | Oct. 10, 2023    | May 27, 2024  | Oct. 09, 2024 | Radiation (03CH02-KS) |
| Bilog Antenna                     | TeseQ        | CBL6111D   | 44483        | 30MHz~1GHz              | Dec. 21, 2023    | May 27, 2024  | Dec. 20, 2024 | Radiation (03CH02-KS) |
| Double Ridge Horn Antenna         | ETS-Lindgren | 3117       | 75957        | 1GHz~18GHz              | Nov. 23, 2023    | May 27, 2024  | Nov. 22, 2024 | Radiation (03CH02-KS) |
| SHF-EHF Horn                      | Com-power    | AH-840     | 101070       | 18GHz~40GHz             | Jan. 05, 2024    | May 27, 2024  | Jan. 04, 2025 | Radiation (03CH02-KS) |
| Amplifier                         | EM           | EM18G40GGA | 060852       | 18~40GHz                | Jan. 05, 2024    | May 27, 2024  | Jan. 04, 2025 | Radiation (03CH02-KS) |
| Amplifier                         | SONOMA       | 310N       | 380826       | 9KHz~1GHz               | Jul. 06, 2023    | May 27, 2024  | Jul. 05, 2024 | Radiation (03CH02-KS) |
| Amplifier                         | EM           | EM01G18G   | 060806       | 1GHz~18GHz              | Oct. 10, 2023    | May 27, 2024  | Oct. 09, 2024 | Radiation (03CH02-KS) |
| AC Power Source                   | Chroma       | 61601      | 616010002473 | N/A                     | NCR              | May 27, 2024  | NCR           | Radiation (03CH02-KS) |
| Turn Table                        | MF           | MF7802     | N/A          | 0~360 degree            | NCR              | May 27, 2024  | NCR           | Radiation (03CH02-KS) |
| Antenna Mast                      | MF           | MF7802     | N/A          | 1 m~4 m                 | NCR              | May 27, 2024  | NCR           | Radiation (03CH02-KS) |
| EMI Receiver                      | R&S          | ESCI7      | 100768       | 9kHz~7GHz;              | Apr. 18, 2024    | Jun. 06, 2024 | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC LISN (for auxiliary equipment) | MessTec      | AN3016     | 060103       | 9kHz~30MHz              | Oct. 11, 2023    | Jun. 06, 2024 | Oct. 10, 2024 | Conduction (CO01-KS)  |
| AC LISN                           | MessTec      | AN3016     | 060105       | 9kHz~30MHz              | Apr. 18, 2024    | Jun. 06, 2024 | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC Power Source                   | Chroma       | 61602      | ABP000000811 | AC 0V~300V, 45Hz~1000Hz | Oct. 11, 2023    | Jun. 06, 2024 | Oct. 10, 2024 | Conduction (CO01-KS)  |

NCR: No Calibration Required

## 5. Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|                                                                             |         |
|-----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 2.84 dB |
|-----------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                             |         |
|-----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 6.04 dB |
|-----------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                             |         |
|-----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 5.12 dB |
|-----------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                             |         |
|-----------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 5.30 dB |
|-----------------------------------------------------------------------------|---------|

----- THE END -----