



# TEST REPORT



Report No. : KES-EM242448-R1

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**KES Co., Ltd.**

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## 1. Client

Applicant : JLU Co.,Ltd.

Applicant Address : 410~412, Busan Knowledge Industry Center, 111, Hyoyeol-ro, Buk-gu, Busan, Republic of Korea

## 2. Sample Description

Product name : EXMODE

Model/Type No. : JKM-C300B

Variant Model : -

Manufacturer : JLU Co.,Ltd.

Manufacturer Address : 410~412, Busan Knowledge Industry Center, 111, Hyoyeol-ro, Buk-gu, Busan, Republic of Korea

3. FCC ID : 2BHHE-JKM-C300B

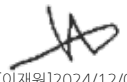
4. Date of Receipt : Jul. 18, 2024

5. Test date : Jul. 18, 2024 ~ Jul. 20, 2024

6. Date of Issue : Dec. 06, 2024

7. Test Results : In Compliance

Tested by

  
[이재원]2024/12/06

Jae Won, Lee  
EMC Test Engineer

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EMC Technical Manager

KES-QP16-F01(00-23-01-01)

KES Co., Ltd.

The authenticity of this test report can be found on the verification page of our website (www.kes.co.kr).



REPORT REVISION HISTORY

| Date          | Test Report No. | Revision History      |
|---------------|-----------------|-----------------------|
| Aug. 07, 2024 | KES-EM242448    | Issued                |
| Dec. 06, 2024 | KES-EM242448-R1 | Add Equipment (Cable) |
|               |                 |                       |
|               |                 |                       |
|               |                 |                       |
|               |                 |                       |
|               |                 |                       |
|               |                 |                       |
|               |                 |                       |
|               |                 |                       |

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## 1.0 General Product Description

Main Specifications of EUT are:

| Division                         |             | Specificity                                                                       |
|----------------------------------|-------------|-----------------------------------------------------------------------------------|
| Internal highest clock frequency |             | 32 MHz                                                                            |
| Power                            | Rated Power | Cradle Charging : DC 5 V (USB Type-C)<br>Operation : DC 3.7 V / 500 mAh (Battery) |
|                                  | Test Power  | AC 120 V, 60 Hz                                                                   |
| Wireless Function                |             | Bluetooth 2.4 GHz                                                                 |
| Components                       |             | Main body 1 EA                                                                    |



## 1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

☒ AC 120 V, 60 Hz (AC/DC Adapter Input Power), Battery

## 1.2 Variant Model Differences

Not applicable

## 1.3 Device Modifications

Not applicable

## 1.4 Equipment Under Test

| Description | Model Number | Serial Number | Manufacturer                    | Remarks             |
|-------------|--------------|---------------|---------------------------------|---------------------|
| EXMODE      | JKM-C300B    | -             | JLU Co.,Ltd.                    | EUT                 |
| Battery     | TW502540     | -             | SHENZHEN TAIWOO BATTERY CO.,LTD | EUT, XU100690-17005 |

## 1.5 Support Equipments

| Description   | Model Number | Serial Number | Manufacturer                      | Remarks                |
|---------------|--------------|---------------|-----------------------------------|------------------------|
| AC/DC Adapter | MCS-02KR2    | -             | Weihai Sunlin Electronics Co.,Ltd | MSIP-REI-SLE-MCS-02KR2 |
| Smartphone    | SM-N986N     |               | SAMSUNG                           | -                      |

## 1.6 External I/O Cabling

| Start        |            | END           |            | Cable Spec. |        |
|--------------|------------|---------------|------------|-------------|--------|
| Description  | I/O Port   | Description   | I/O Port   | Length      | Shield |
| EXMODE (EUT) | USB Type-C | AC/DC Adapter | USB Type-A | 1.0         | U      |
|              | Wireless   | Smartphone    | Wireless   | -           | -      |

\* Unshielded = U, Shielded = S

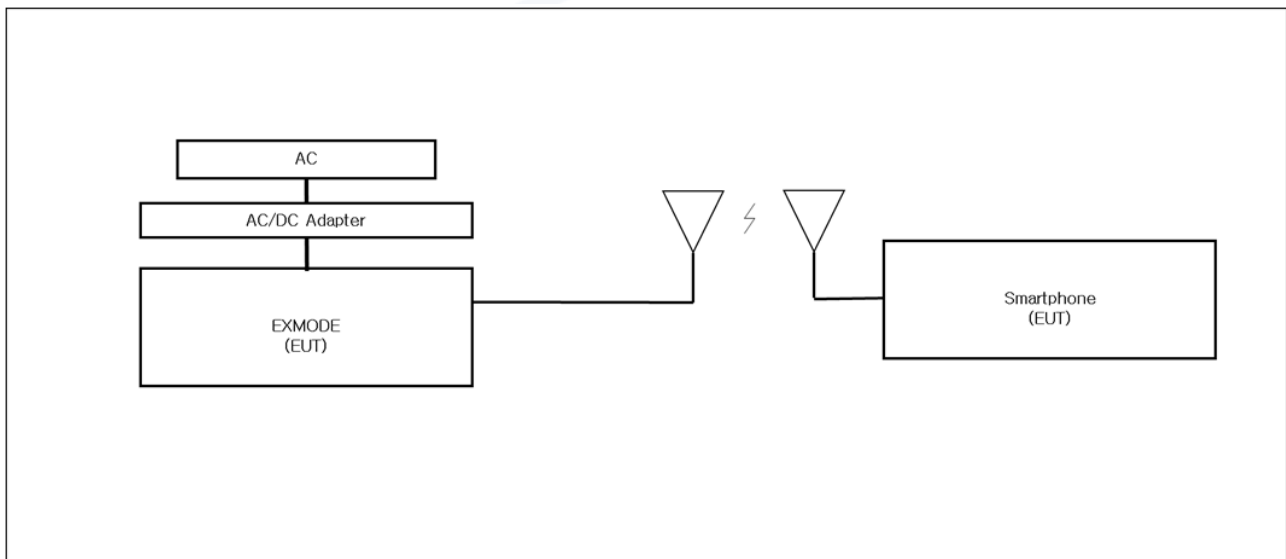


## 1.7 EUT Operating Mode(s)

| Test mode | operating                                                                                                                                                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation | -After connecting the EUT and AC/DC adapter, I tested it by checking the charging status with the LED, pressing the button to confirm normal operation, and checking the Bluetooth connection status with the BLE scanner app. |

| EUT Test operating S/W |         |                     |
|------------------------|---------|---------------------|
| Name                   | Version | Manufacture Company |
| -                      | -       | -                   |

## 1.8 Configuration



EUT –Smartphone : Bluetooth 2.4 GHz



## 1.9 Remarks when standards applied

N/A

## 1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

## 1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

## 1.12 Measurement Procedure

### - Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

### - Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below 1 GHz at 10 m or 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Test was proceeded worst case test mode and cable configuration.

Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4-2014 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2



### 1.13 Laboratory Accreditations and Listings

| Country       | Agency  | Scope of Accreditation                                                                                                                  | Logo                                                                                                                           |
|---------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| KOREA         | RRA     | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>KR0100                                  |
| International | KOLAS   | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>KT489                                   |
| USA           | FCC     | 3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.                                            | <br>KR0100                                  |
| Canada        | ISED    | 3 m & 10 m Semi-Anechoic Chamber and Conducted test site                                                                                | <br>23298                                  |
| JAPAN         | VCCI    | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)                                                                          | <br>C-20136, T-20137,<br>R-20181, G-20176 |
| Europe        | TÜV SÜD | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>CARAT 001633 0008                     |



## 2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **47 CFR Part 15, Subpart B**

☒ ANSI C63.4a-2017

☐ Class A

☒ Class B





## 2.1 Conducted Emissions at Mains Power Ports

**Test Date**

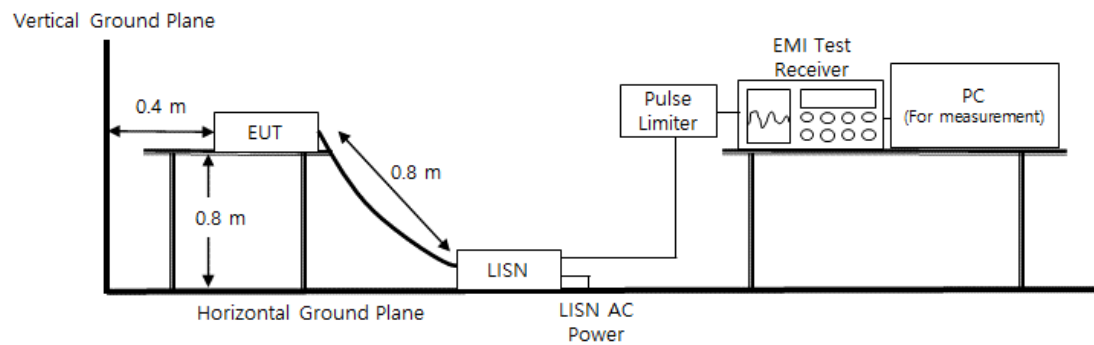
Jul. 18, 2024

**Test Location**

SHIELD ROOM #6

**Test Equipment**

| Used                                | Description       | Model Number | Manufacturer | Serial Number | Cal. Due     | calibration interval |
|-------------------------------------|-------------------|--------------|--------------|---------------|--------------|----------------------|
| <input checked="" type="checkbox"/> | EMI Test S/W      | EMC32        | R & S        | 9.12.00       | -            | -                    |
| <input checked="" type="checkbox"/> | EMI TEST RECEIVER | ESR3         | R & S        | 101783        | 11, 08, 2024 | 1 Year               |
| <input checked="" type="checkbox"/> | LISN              | ENV216       | R & S        | 101787        | 11, 08, 2024 | 1 Year               |
| <input type="checkbox"/>            | LISN              | ESH2-Z5      | R & S        | 100450        | 11, 08, 2024 | 1 Year               |
| <input checked="" type="checkbox"/> | PULSE LIMITER     | ESH3-Z2      | R & S        | 101915        | 11, 08, 2024 | 1 Year               |
| <input checked="" type="checkbox"/> | Cable             | RG 400       | -            | -             | 14, 07, 2024 | 0,5 Year             |

**Diagram of test setup**

**Test Conditions**

Temperature: (25,5 ± 0,1) °C  
Relative Humidity: (50,0 ± 0,1) % R.H.

**Frequency Range of Measurement**

150 kHz to 30 MHz

**Instrument Settings**

IF Band Width: 9 kHz

**Test Results**

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

**Remarks**

See Appendix A for test data.



## 2.2 Radiated Electric Field Emissions(Below 1 GHz)

### Test Date

Jul. 19, 2024

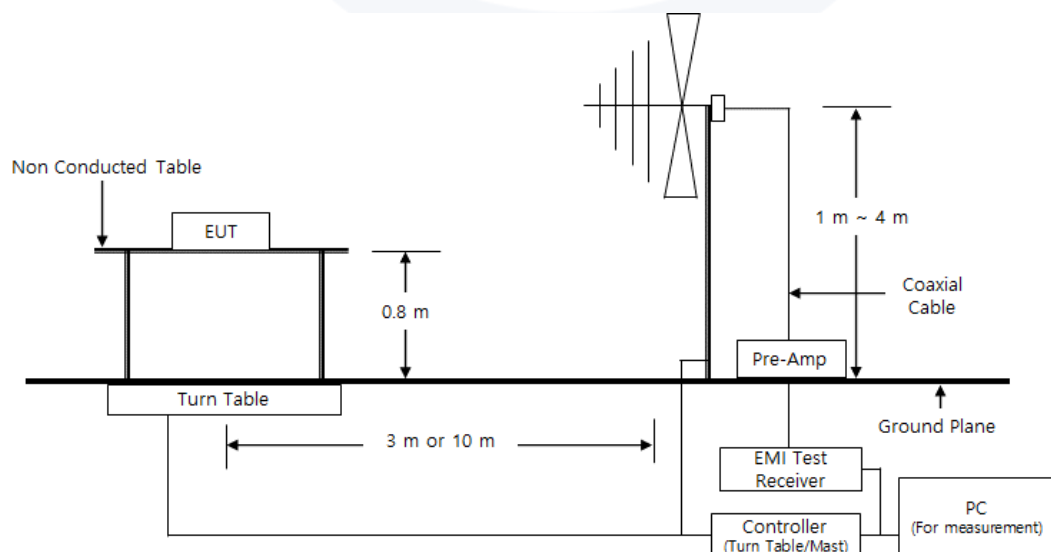
### Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

### Test Equipment

| Used                                | Description              | Model Number          | Manufacturer     | Serial Number | Cal. Due     | calibration interval |
|-------------------------------------|--------------------------|-----------------------|------------------|---------------|--------------|----------------------|
| <input checked="" type="checkbox"/> | EMI Test S/W             | EP5/RE                | TOYO Corporation | 6.0.0         | -            | -                    |
| <input checked="" type="checkbox"/> | EMI TEST RECEIVER        | ESU26                 | R & S            | 100551        | 02, 13, 2025 | 1 Year               |
| <input checked="" type="checkbox"/> | AMPLIFIER                | SCU 01                | R & S            | 100603        | 11, 08, 2024 | 1 Year               |
| <input checked="" type="checkbox"/> | TRILOG-BROADBAND ANTENNA | VULB9163              | Schwarzbeck      | 715           | 11, 17, 2024 | 2 Year               |
| <input checked="" type="checkbox"/> | ATTENUATOR               | 8491A                 | HP               | 32173         | 02, 13, 2025 | 1 Year               |
| <input checked="" type="checkbox"/> | Cable                    | NMS111-GL200sC-NMS111 | GIGALANE         | -             | 12, 07, 2024 | 0,5 Year             |
| <input checked="" type="checkbox"/> | Cable                    | SUCOFLEX104           | HUBER_SUHNER     | -             | 12, 07, 2024 | 0,5 Year             |
| <input checked="" type="checkbox"/> | Cable                    | -                     | -                | -             | 12, 07, 2024 | 0,5 Year             |

### Diagram of test setup



**Test Conditions**

Temperature: (24,3 ± 0,1) °C  
Relative Humidity: (48,3 ± 0,1) % R.H.

**Frequency Range of Measurement**

30 MHz to 1 GHz

**Instrument Settings**

IF Band Width: 120 kHz

**Test Results**

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

**Remarks**

See Appendix A for test data.



## 2.3 Radiated Electric Field Emissions(Above 1 GHz)

### Test Date

Jul. 20, 2024

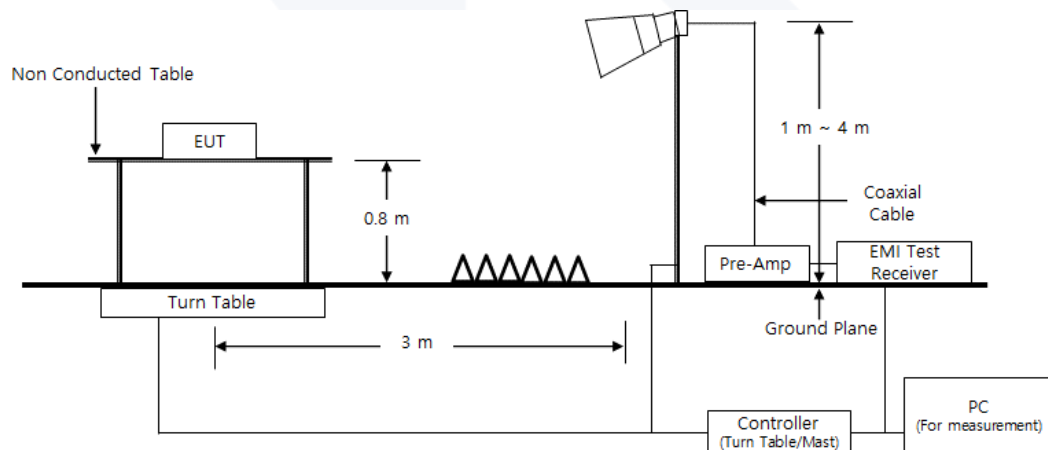
### Test Location

SEMI ANECHOIC CHAMBER #5

### Test Equipment

| Used                                | Description       | Model Number | Manufacturer     | Serial Number | Cal. Due     | calibration interval |
|-------------------------------------|-------------------|--------------|------------------|---------------|--------------|----------------------|
| <input checked="" type="checkbox"/> | EMI Test S/W      | ES10/RE      | TOYO Corporation | 2022.01.000   | -            | -                    |
| <input checked="" type="checkbox"/> | EMI TEST RECEIVER | ESU26        | Rohde & Schwarz  | 100552        | 02, 13, 2025 | 1 Year               |
| <input checked="" type="checkbox"/> | HORN ANTENNA      | BBHA 9120D   | SCHWARZBECK      | 9120D-1802    | 11, 03, 2024 | 1 Year               |
| <input checked="" type="checkbox"/> | PREAMPLIFIER      | 8449B        | HP               | 3008A00538    | 04, 30, 2025 | 1 Year               |
| <input checked="" type="checkbox"/> | ATTENUATOR        | 8491B        | HP               | 23094         | 02, 13, 2025 | 1 Year               |
| <input checked="" type="checkbox"/> | Cable             | SUCOFLEX106  | HUBER_SUHNER     | -             | 12, 07, 2024 | 0,5 Year             |
| <input checked="" type="checkbox"/> | Cable             | SUCOFLEX106  | HUBER_SUHNER     | -             | 12, 07, 2024 | 0,5 Year             |
| <input checked="" type="checkbox"/> | Cable             | LH21D/2xSMA  | OSI Cable        | -             | 12, 07, 2024 | 0,5 Year             |

### Diagram of test setup





### Test Conditions

Temperature: (22,9 ± 0,1) °C  
Relative Humidity: (47,3 ± 0,1) % R.H.

### Frequency Range of Measurement

1 GHz to 12,5 GHz

### Instrument Settings

IF Band Width: 1 MHz

### Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

### Remarks

See Appendix A for test data.

The Average of the test data is the cispr average result.



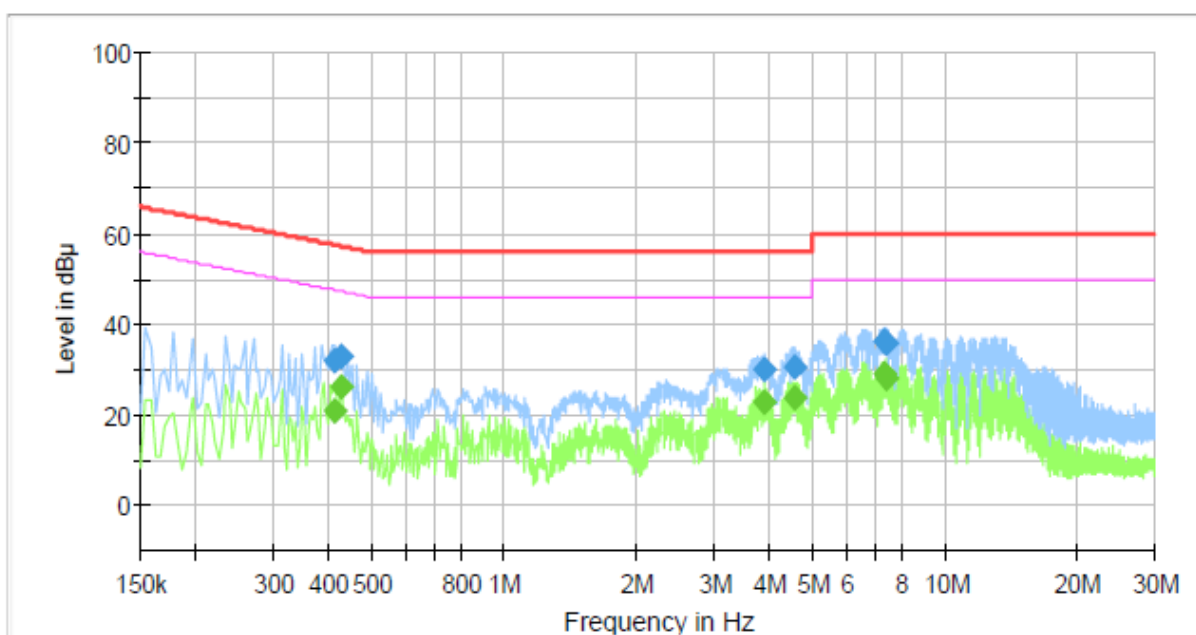
## APPENDIX A – TEST DATA

### Conducted Emissions at Mains Power Ports

HOT LINE

#### Common Information

Test Description: Conducted Emission  
Job No.: KES-EM242448  
Phase: L  
Mode:  
Operator Name: KES



#### Final Result

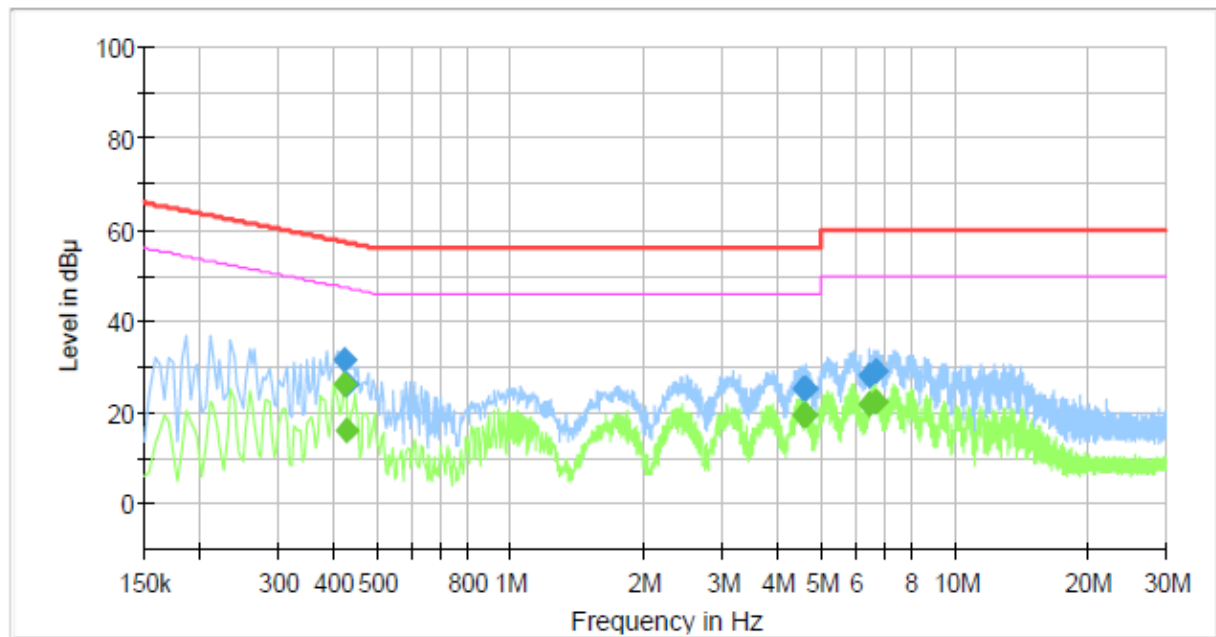
| Frequency (MHz) | QuasiPeak (dBμV) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.414000        | ---              | 20.88           | 47.57        | 26.69       | 1000.0          | 9.000           | L1   | 19.7       |
| 0.414000        | 32.08            | ---             | 57.57        | 25.49       | 1000.0          | 9.000           | L1   | 19.7       |
| 0.426000        | ---              | 26.08           | 47.33        | 21.25       | 1000.0          | 9.000           | L1   | 19.7       |
| 0.426000        | 32.98            | ---             | 57.33        | 24.35       | 1000.0          | 9.000           | L1   | 19.7       |
| 3.886000        | ---              | 22.93           | 46.00        | 23.07       | 1000.0          | 9.000           | L1   | 20.1       |
| 3.886000        | 29.82            | ---             | 56.00        | 26.18       | 1000.0          | 9.000           | L1   | 20.1       |
| 4.566000        | ---              | 23.56           | 46.00        | 22.44       | 1000.0          | 9.000           | L1   | 20.1       |
| 4.566000        | 30.71            | ---             | 56.00        | 25.29       | 1000.0          | 9.000           | L1   | 20.1       |
| 7.274000        | ---              | 28.85           | 50.00        | 21.15       | 1000.0          | 9.000           | L1   | 20.4       |
| 7.274000        | 36.29            | ---             | 60.00        | 23.71       | 1000.0          | 9.000           | L1   | 20.4       |
| 7.382000        | ---              | 28.04           | 50.00        | 21.96       | 1000.0          | 9.000           | L1   | 20.4       |
| 7.382000        | 35.61            | ---             | 60.00        | 24.39       | 1000.0          | 9.000           | L1   | 20.4       |



## NEUTRAL LINE

**Common Information**

Test Description: Conducted Emission  
Job No.: KES-EM242448  
Phase: N  
Mode:  
Operator Name: KES

**Final Result**

| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | CAverage (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------------|-----------------------|--------------------|-------------|-----------------|-----------------|------|------------|
| 0.422000        | ---                    | 26.27                 | 47.41              | 21.14       | 1000.0          | 9.000           | N    | 19.7       |
| 0.422000        | 31.34                  | ---                   | 57.41              | 26.07       | 1000.0          | 9.000           | N    | 19.7       |
| 0.426000        | ---                    | 16.15                 | 47.33              | 31.18       | 1000.0          | 9.000           | N    | 19.7       |
| 0.426000        | 26.31                  | ---                   | 57.33              | 31.02       | 1000.0          | 9.000           | N    | 19.7       |
| 4.554000        | ---                    | 19.52                 | 46.00              | 26.48       | 1000.0          | 9.000           | N    | 20.2       |
| 4.554000        | 25.44                  | ---                   | 56.00              | 30.56       | 1000.0          | 9.000           | N    | 20.2       |
| 4.634000        | ---                    | 19.30                 | 46.00              | 26.70       | 1000.0          | 9.000           | N    | 20.2       |
| 4.634000        | 25.34                  | ---                   | 56.00              | 30.66       | 1000.0          | 9.000           | N    | 20.2       |
| 6.434000        | ---                    | 21.68                 | 50.00              | 28.32       | 1000.0          | 9.000           | N    | 20.3       |
| 6.434000        | 28.00                  | ---                   | 60.00              | 32.00       | 1000.0          | 9.000           | N    | 20.3       |
| 6.698000        | ---                    | 22.45                 | 50.00              | 27.55       | 1000.0          | 9.000           | N    | 20.4       |
| 6.698000        | 28.98                  | ---                   | 60.00              | 31.02       | 1000.0          | 9.000           | N    | 20.4       |

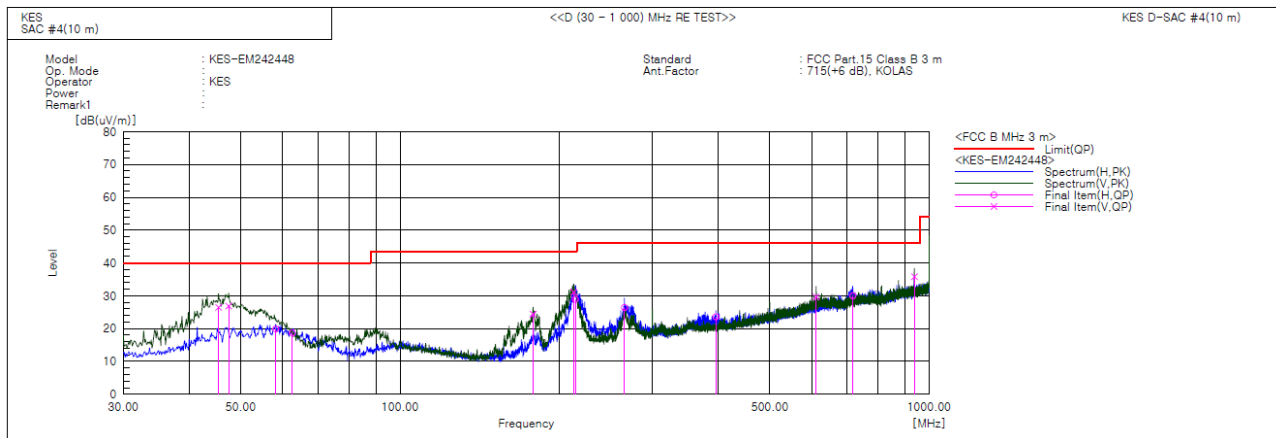
## ◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**Radiated Electric Field Emissions(Below 1 GHz)****Final Result**

| No. | Frequency<br>[MHz] | (P) | Reading<br>QP<br>[dB(uV)] | c.f<br>[dB(1/m)] | Result<br>QP<br>[dB(uV/m)] | Limit<br>QP<br>[dB(uV/m)] | Margin<br>QP<br>[dB] | Height<br>[cm] | Angle<br>[deg] | Remark |
|-----|--------------------|-----|---------------------------|------------------|----------------------------|---------------------------|----------------------|----------------|----------------|--------|
| 1   | 45.399             | V   | 48.0                      | -21.5            | 26.5                       | 40.0                      | 13.5                 | 114.0          | 101.0          |        |
| 2   | 47.460             | V   | 48.1                      | -21.2            | 26.9                       | 40.0                      | 13.1                 | 146.0          | 206.0          |        |
| 3   | 58.251             | H   | 41.7                      | -21.8            | 19.9                       | 40.0                      | 20.1                 | 195.0          | 26.0           |        |
| 4   | 62.616             | H   | 41.4                      | -22.7            | 18.7                       | 40.0                      | 21.3                 | 397.0          | 152.0          |        |
| 5   | 178.410            | V   | 47.7                      | -23.3            | 24.4                       | 43.5                      | 19.1                 | 115.0          | 352.0          |        |
| 6   | 213.088            | V   | 50.9                      | -19.8            | 31.1                       | 43.5                      | 12.4                 | 141.0          | 217.0          |        |
| 7   | 214.421            | H   | 48.6                      | -19.7            | 28.9                       | 43.5                      | 14.6                 | 195.0          | 272.0          |        |
| 8   | 265.589            | H   | 44.9                      | -18.5            | 26.4                       | 46.0                      | 19.6                 | 396.0          | 63.0           |        |
| 9   | 395.448            | H   | 37.6                      | -14.0            | 23.6                       | 46.0                      | 22.4                 | 196.0          | 111.0          |        |
| 10  | 611.636            | V   | 37.5                      | -7.8             | 29.7                       | 46.0                      | 16.3                 | 141.0          | 12.0           |        |
| 11  | 717.609            | H   | 36.0                      | -6.0             | 30.0                       | 46.0                      | 16.0                 | 398.0          | 231.0          |        |
| 12  | 938.284            | V   | 38.5                      | -2.7             | 35.8                       | 46.0                      | 10.2                 | 106.0          | 105.0          |        |

**◆ Calculation**

Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

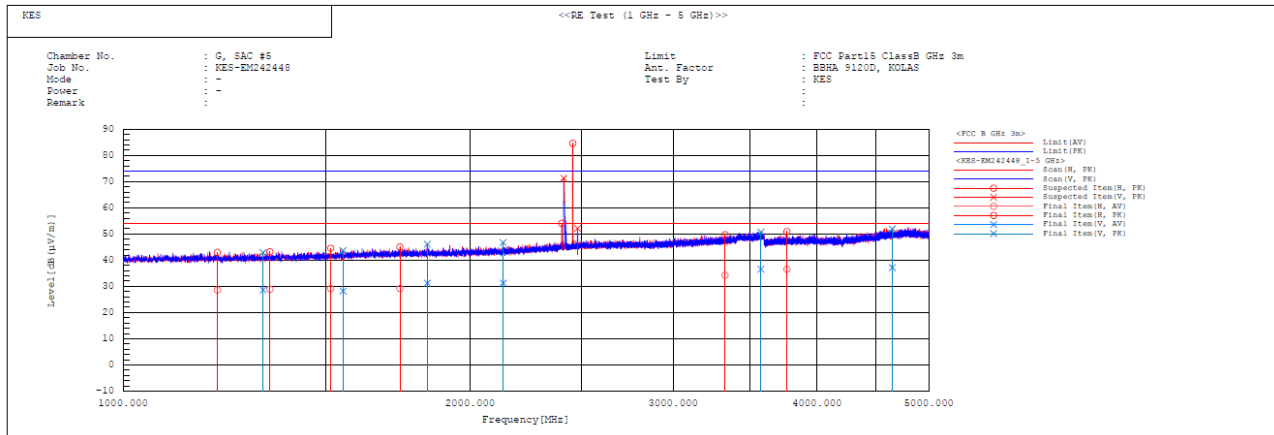
Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

**Radiated Electric Field Emissions(Above 1 GHz)**

- (1 ~ 5) GHz

**Final Result**

| No. | Frequency [MHz] | Pol | Reading AV [dB (μV)] | Reading PK [dB (μV)] | c.f [dB (1/m)] | Result AV [dB (μV/m)] | Result PK [dB (μV/m)] | Limit AV [dB (μV/m)] | Limit PK [dB (μV/m)] | Margin AV [dB] | Margin PK [dB] | Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|----------------------|----------------------|----------------|-----------------------|-----------------------|----------------------|----------------------|----------------|----------------|-------------|-------------|--------|
| 1   | 1207.578        | H   | 29.3                 | 43.7                 | -0.7           | 28.6                  | 43.0                  | 54.0                 | 74.0                 | 25.4           | 31.0           | 197.0       | 47.5        |        |
| 2   | 1322.887        | V   | 28.7                 | 43.0                 | -0.1           | 28.6                  | 42.9                  | 54.0                 | 74.0                 | 25.4           | 31.1           | 104.0       | 106.9       |        |
| 3   | 1341.278        | H   | 28.9                 | 43.2                 | 0.0            | 28.9                  | 43.2                  | 54.0                 | 74.0                 | 25.1           | 30.8           | 395.0       | 87.8        |        |
| 4   | 1514.387        | H   | 28.5                 | 43.8                 | 0.7            | 29.2                  | 44.5                  | 54.0                 | 74.0                 | 24.8           | 29.5           | 396.0       | 189.0       |        |
| 5   | 1552.375        | V   | 27.3                 | 42.7                 | 0.9            | 28.2                  | 43.6                  | 54.0                 | 74.0                 | 25.8           | 30.4           | 106.0       | 163.0       |        |
| 6   | 1739.239        | H   | 27.5                 | 43.3                 | 1.7            | 29.2                  | 45.0                  | 54.0                 | 74.0                 | 24.8           | 29.0           | 397.0       | 154.9       |        |
| 7   | 1836.897        | V   | 29.1                 | 44.0                 | 2.1            | 31.2                  | 46.1                  | 54.0                 | 74.0                 | 22.8           | 27.9           | 105.0       | 198.2       |        |
| 8   | 2136.872        | V   | 27.8                 | 43.3                 | 3.4            | 31.2                  | 46.7                  | 54.0                 | 74.0                 | 22.8           | 27.3           | 105.0       | 9.7         |        |
| 9   | 3328.752        | H   | 27.6                 | 43.1                 | 6.7            | 34.3                  | 49.8                  | 54.0                 | 74.0                 | 19.7           | 24.2           | 379.0       | 322.3       |        |
| 10  | 3576.038        | V   | 29.3                 | 43.5                 | 7.2            | 36.5                  | 50.7                  | 54.0                 | 74.0                 | 17.5           | 23.3           | 102.0       | 155.5       |        |
| 11  | 3766.787        | H   | 28.8                 | 43.2                 | 7.7            | 36.5                  | 50.9                  | 54.0                 | 74.0                 | 17.5           | 23.1           | 387.0       | 304.2       |        |
| 12  | 4648.887        | V   | 26.2                 | 40.9                 | 11.0           | 37.2                  | 51.9                  | 54.0                 | 74.0                 | 16.8           | 22.1           | 105.0       | 228.0       |        |
| 13  | 2402.000        | H   | -----                | -----                | 4.4            | -----                 | -----                 | -----                | -----                | -----          | -----          | 400.0       | 162.2       |        |
| 14  | 2412.000        | V   | -----                | -----                | 4.4            | -----                 | -----                 | -----                | -----                | -----          | -----          | 100.0       | 352.9       |        |
| 15  | 2456.000        | H   | -----                | -----                | 4.6            | -----                 | -----                 | -----                | -----                | -----          | -----          | 400.0       | 28.2        |        |
| 16  | 2480.000        | V   | -----                | -----                | 4.7            | -----                 | -----                 | -----                | -----                | -----          | -----          | 100.0       | 0.6         |        |

**\* Exclusion bands**

- Fundamental Frequency: (2 402 ~ 2 480) MHz



- (5 ~ 12,5)

- PK

| Frequency<br>(MHz) | Reading<br>PK (dBuV) | Polarization | Height<br>( m ) | ANT Factor<br>(dB) | Cable Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------|--------------|-----------------|--------------------|--------------------|--------------------------|--------------------|-------------------|----------------|
| 6 650.947          | 40.200               | V            | 1.000           | 34.750             | 9.250              | 34.760                   | 49.440             | 74.000            | 24.560         |
| 10 868.257         | 39.200               | H            | 1.000           | 40.270             | 11.880             | 32.800                   | 58.550             | 74.000            | 15.450         |

- CISPR AV

| Frequency<br>(MHz) | Reading<br>CISPR AV<br>(dBuV) | Polarization | Height<br>( m ) | ANT Factor<br>(dB) | Cable Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|-------------------------------|--------------|-----------------|--------------------|--------------------|--------------------------|--------------------|-------------------|----------------|
| 6 650.947          | 27.100                        | V            | 1.000           | 34.750             | 9.250              | 34.760                   | 36.340             | 54.000            | 17.660         |
| 10 868.257         | 25.900                        | H            | 1.000           | 40.270             | 11.880             | 32.800                   | 45.250             | 54.000            | 8.750          |

◆ Calculation

Result(PK/CAV) [dB(μV/m)] = (Reading(PK/CAV)[dB(μV)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB(μV/m)] - Result(PK/CAV) [dB(μV/m)]

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value