

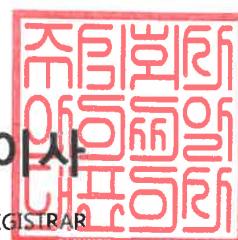


# 시험성적서

## TEST REPORT

페이지(page) : ( 1 ) / 총(Total) 21 )

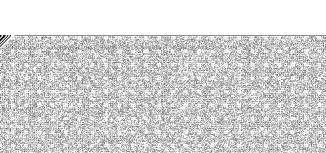
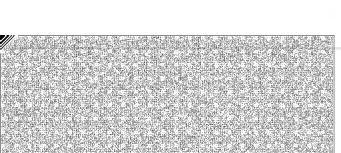
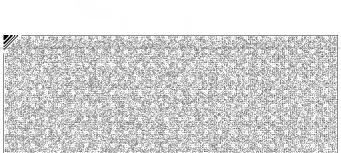
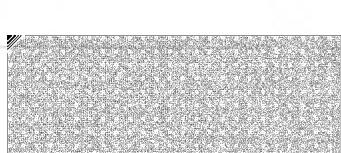
|   |   |   |   |
|---|---|---|---|
| 성적서 번호<br>Report No.  | ICRT-TR-E230777-0A  |   |   |
| 신청자<br>Client   | 기관명<br>Name   | GWD Concept Sp. z o.o.  |   |
|   | 주 소<br>Address  | ALEJE JEROZOLIMSKIE 123A, 02-017 WARSZAWA, POLAND                             |   |
| 시험대상품목<br>Sample description  | Lumino Edition  |   |   |
| 모델명<br>Type designation   | LE0001  |   |   |
| 정격<br>Ratings   | DC 5 V  |   |   |
| 시험장소<br>Place of test   | <input checked="" type="checkbox"/> 고정시험실(Permanent Testing Lab) <input type="checkbox"/> 현장시험(On Site Testing)<br>주소지(Address): 112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea |   |   |
| 시험기간<br>Date of test  | 2023. 04. 06 ~ 2023. 04. 07   |   |   |
| 시험방법/항목<br>Test Method/Item   | FCC CFR 47 Part 15, Subpart B<br>/ Other Class B digital devices & peripherals  |   |   |
| 시험결과<br>Test Results  | Refer to summary of test results  |   |   |
| 확인<br>Affirmation   | 작성자<br>Tested by<br>성명<br>Name  | 기술책임자<br>Technical Manager<br>성명<br>Name<br>이수호 (서명)<br>Lee, Suho (Signature) | 박명철 (서명)<br>Park, Myeongcheol (Signature) |
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| 2023. 04. 10  |   |   |   |
| 주식회사 아이씨알 대표이사  |   |   |   |
| The head of INTERNATIONAL CERTIFICATION REGISTRAR   |   |   |   |



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The authenticity of the test report can be checked on the G4B or ICR website.

경기도 김포시 양촌읍 황금 3로 7번길 112 / Tel: 02-6351-9001 ~ 6





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## 1. Applicant Information

### 1.1 Applicant

Applicant : GWD Concept Sp. z o.o.  
 Address : ALEJE JEROZOLIMSKIE 123A, 02-017 WARSZAWA, POLAND

### 1.2 Manufacture

Applicant : GWD Concept Sp. z o.o.  
 Address : ALEJE JEROZOLIMSKIE 123A, 02-017 WARSZAWA, POLAND

## 2. Laboratory

### 2.1 Information

Laboratory : ICR Co., Ltd  
 Address : 112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea  
 Telephone No. : +82-2-6351-9001  
 Facsimile No. : +82-2-6351-9007  
 KOLAS No. : KT652  
 RRA No. : KR0165

## 3. Revision History

| Issued Report No.  | Issued Date  | Revisions    | Effect Section |
|--------------------|--------------|--------------|----------------|
| ICRT-TR-E230777-0A | 2023. 04. 10 | First issue. | -              |





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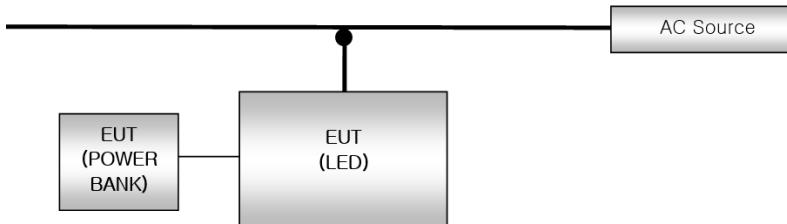
#### 4. List of EUT and Accessory

##### 4.1 Used equipment

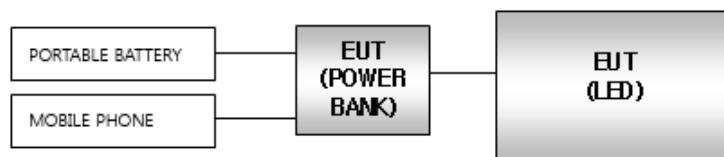
| Description      | Model      | Manufacturer           | Remark |
|------------------|------------|------------------------|--------|
| Lumino Edition   | LE0001     | GWD Concept Sp. z o.o. | EUT    |
| Power Bank       | PJ0000QCD  | ADATA                  | EUT    |
| Adapter          | EP-TA20WKW | SAMSUNG                | AE     |
| PORATBLE BATTERY | -          | -                      | AE     |
| MOBILE PHONE     | SM-F711N   | SAMSUNG                | AE     |

##### 4.2 Test Configuration

###### MODE 1



###### MODE 2



—— : Signal line    —— : Power line    △ : GROUND    ● : Adapter





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#### 4.3 Cable List

| Equipment                       | Port         | Equipment              | Port       | Length (m) | Shielded   |
|---------------------------------|--------------|------------------------|------------|------------|------------|
| EUT<br>(LED) – MODE 1           | USB C TYPE 1 | Adapter                | DC OUT     | 1.5        | Unshielded |
|                                 | USB C TYPE 2 | EUT<br>(POWER<br>BANK) | USB C TYPE | 1.2        | Unshielded |
| EUT<br>(POWER BANK)<br>– MODE 2 | USB C TYPE   | EUT<br>(LED)           | USB C TYPE | 1.6        | Unshielded |
|                                 | USB 1        | PORATABLE<br>BATTERY   | USB        | 1.5        | Unshielded |
|                                 | USB 2        | MOBILE<br>PHONE        | USB C TYPE | 1.5        | Unshielded |

#### 4.4 Mode of Operating during the test

**[MODE 1]** : The EUT is connected as shown in the layout diagram, and the test is performed while checking the LED operation and charging status.

**[MODE 2]** : EUT is connected as shown in the layout diagram, and tested in the state of operating LED, PORTABLE BATTERY, and MOBILE PHONE.

#### 4.5 EUT Modifications

- None.

#### 4.6 Family Model Name

- None.





페이지(page) : ( 6 ) / ( 총(Total) 21 )

## 5. Summary of test result

### 5.1 Test Summary

| Standard                   | Test items         | Applied                             | Results |
|----------------------------|--------------------|-------------------------------------|---------|
| FCC Part 15.109<br>Class B | Radiated emission  | <input checked="" type="checkbox"/> | Pass    |
| FCC Part 15.107            | Conducted emission | <input checked="" type="checkbox"/> | Pass    |

\* The data in this test report are traceable to the national or international standards.

**Frequency range to be scanned:**

0.15 MHz to 30 MHz as Conducted measurement

5<sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower as Radiated measurement

**Bandwidth:**

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz ~ 30 MHz and 120 kHz in the frequency 30 MHz ~ 1 000 MHz.

Measured by the CISPR Peak function Bandwidth is 1 MHz in the frequency 1 GHz ~ 40 GHz.  
The EUT is powered by a vehicle battery, and the conduction disturbance test is excluded.

- Maximum operating frequency: Less than 108 MHz.





## 6. Test Description

### 6.1 Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4-2014.

### 6.2 Test Procedure

#### 6.2.1 Radiated Disturbance Measurements – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m/10 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (100 kHz bandwidth) and an EMI receiver with quasi-peak detectors(120 kHz bandwidth).
- Refer to the list of test equipment used for the test.
- Trilog antenna are used as Broadband antenna.
- The Trilog antenna is used in the frequency range of 30 ~ 1 000MHz, the Horn antenna is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out by a ICR operator as manual operation.
- searching for some of High disturbance frequency points than the other points with the following settings;  
bandwidth 100 kHz, frequency range 10 MHz between 30 MHz and 300 MHz and frequency range 50 MHz between 300 MHz and 1 GHz.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m ~ 4 m.
- reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4-2014.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:  
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

#### 6.2.2 Radiated Disturbance Measurements – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (1 MHz bandwidth) and an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- HORN ANTENNA are used as WIDEBAND ANTENNA.
- The HORN ANTENNA is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.





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- Measurement is carried out by a ICR operator as manual operation.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m
- reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4-2014.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:  
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

### 6.2.3 Conducted Disturbance Measurements

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance ( $50 \Omega/50 \mu H$ ) as defined in ANSIC 63.4-2014., shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector. (Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- A remote switch is used for changing phases between Line (L) and Neutral (N).
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
- detecting the maximized emission level using the maxhold function after setting the spectrum analyzer bandwidth 1 kHz and the frequency range from 150 kHz ~ 1 MHz, 1 MHz ~ 5 MHz and 5 MHz ~ 30 MHz.
- searching the maximum frequency point of the disturbance wave in each frequency range.
- reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
- calculating the measurement result with the following formula or equation.  
(Result = Reading + Corr)  
(Margin = Limit - Result)





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## 7. EMISSION

### 7.1 Radiated emission

**Definition:**

The test assesses the ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

|                             |   |  |
|-----------------------------|---|--|
| Test method                 | : | FCC Part 15.109, Class B                     |
| Test Date                   | : | 2023. 04. 07                                 |
| Temperature, Humidity       | : | 23.7 °C ~ 24.1 °C, 43.1 % R.H. ~ 43.9 % R.H. |
| Measurement Frequency range | : | 30 MHz ~ 1 GHz                               |
| Measurement Distance        | : | 3 m  |
| Measurement RBW             | : | 120 kHz                                      |
| Test mode                   | : | MODE 1, MODE 2 (refer to 4.4)                |
| <i>Ut</i>                   | : | AC 120 V, 60 Hz(MODE 1), DC 5 V(MODE 2)      |
| Result                      | : | Pass   |

**A sample calculation:**

- Corr (correction factor) = Ant. Factor + Cable loss – (Amp.)
- Emission Level = meter reading + Corr
- Sample calculation ; MODE 1 (Quasi-Peak)

At Frequency : 46.005 MHz Result = Reading + Corr = 43.39 dB( $\mu$ V/m) + (-22.58) dB = 20.81 dB( $\mu$ V/m)

- Measurement Data kept in ICR





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**Limits of below 1 GHz - CLASS A**

| Frequency Range (MHz) | Field strength (μV/m) | Distance (m) |
|-----------------------|-----------------------|--------------|
| 30 ~ 88               | 90                    | 10           |
| 88 ~ 216              | 150                   |              |
| 216 ~ 960             | 210                   |              |
| Above 960             | 300                   |              |

**Limits of below 1 GHz - CLASS B**

| Frequency Range (MHz) | Field strength (μV/m) | Distance (m) |
|-----------------------|-----------------------|--------------|
| 30 ~ 88               | 100                   | 3            |
| 88 ~ 216              | 150                   |              |
| 216 ~ 960             | 200                   |              |
| Above 960             | 500                   |              |

**Used equipments:**

| Used                                | Equipment                    | Model name | Manufacturer | Serial No. | Next Cal.    |
|-------------------------------------|------------------------------|------------|--------------|------------|--------------|
| <input checked="" type="checkbox"/> | EMI Test Receiver            | ESR26      | R&S          | 101461     | 2024. 04. 04 |
| <input checked="" type="checkbox"/> | TRILOG BROAD BAND ANTENNA    | VULB 9162  | SCHWARZBECK  | 142        | 2025. 02. 14 |
| <input type="checkbox"/>            | LOOP Antenna                 | HFH2-Z2    | R&S          | 100506     | 2023. 07. 05 |
| <input checked="" type="checkbox"/> | RF Pre Amplifier             | SCU 08     | R&S          | 100745     | 2024. 04. 03 |
| <input checked="" type="checkbox"/> | HUMIDITY/TEMP. DATA RECORDER | MHT-381SD  | LUTRON       | AI.63106   | 2024. 02. 07 |

**Test Software:**

| Used                                | Description       | Model name | Manufacturer | Version. |
|-------------------------------------|-------------------|------------|--------------|----------|
| <input checked="" type="checkbox"/> | EMI Test Software | EMC32      | R & S        | 10.01.00 |

**Measurement Data:**

- Refer to the Next page.





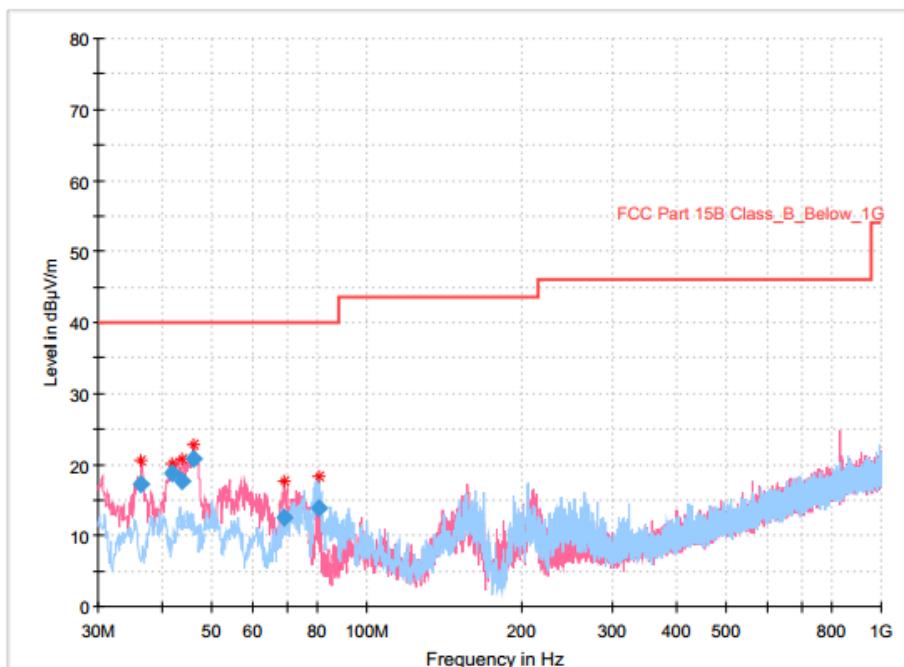
페이지(page) : ( 11 ) / ( 총(Total) 21 )

## [MODE 1] DATA

### Test Report

#### Common Information

Test Description: 2023-1061  
 Operating Conditions: ICR 3 m Chamber  
 Operator Name: LEE S H  
 Comment: RE\_MODE 1



#### Final Result

| Frequency (MHz) | QuasiPeak (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------------|----------------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 36.402          | 17.23                    | 40.00                | 22.77       | 1000.0          | 120.000         | 99.9        | V   | 312.0         | -25.23     |
| 41.931          | 18.82                    | 40.00                | 21.18       | 1000.0          | 120.000         | 99.9        | V   | 332.0         | -23.40     |
| 43.871          | 17.61                    | 40.00                | 22.39       | 1000.0          | 120.000         | 99.9        | V   | 0.0           | -22.90     |
| 46.005          | 20.81                    | 40.00                | 19.19       | 1000.0          | 120.000         | 99.9        | V   | 33.0          | -22.58     |
| 69.188          | 12.54                    | 40.00                | 27.46       | 1000.0          | 120.000         | 99.9        | V   | 279.0         | -26.54     |
| 80.634          | 13.92                    | 40.00                | 26.08       | 1000.0          | 120.000         | 400.0       | H   | 0.0           | -29.42     |





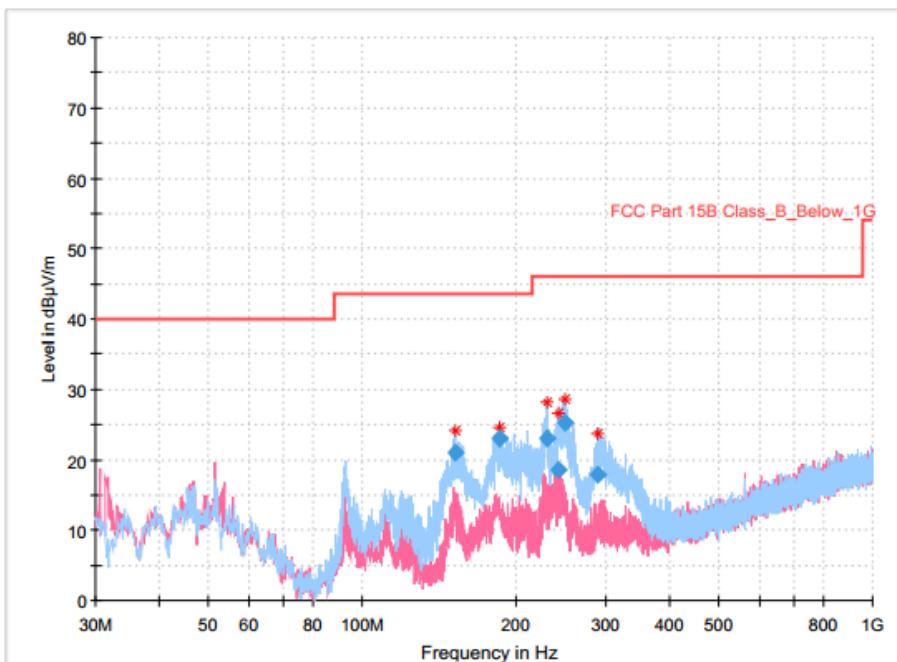
페이지(page) : ( 12 ) / ( 총(Total) 21 )

## [MODE 2] DATA

### Test Report

#### Common Information

Test Description: 2023-1061  
 Operating Conditions: ICR 3 m Chamber  
 Operator Name: LEE S H  
 Comment: RE\_MODE 2



#### Final Result

| Frequency (MHz) | QuasiPeak (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------------|----------------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 152.123         | 20.94                    | 43.50                | 22.56       | 1000.0          | 120.000         | 99.9        | H   | 0.0           | -27.63     |
| 185.491         | 23.03                    | 43.50                | 20.47       | 1000.0          | 120.000         | 99.9        | H   | 0.0           | -25.55     |
| 229.529         | 23.09                    | 46.00                | 22.91       | 1000.0          | 120.000         | 99.9        | H   | 190.0         | -23.08     |
| 243.109         | 18.52                    | 46.00                | 27.48       | 1000.0          | 120.000         | 99.9        | H   | 137.0         | -22.33     |
| 249.899         | 25.22                    | 46.00                | 20.78       | 1000.0          | 120.000         | 99.9        | H   | 137.0         | -22.07     |
| 288.505         | 17.88                    | 46.00                | 28.12       | 1000.0          | 120.000         | 99.9        | H   | 237.0         | -21.21     |





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## 7.2 Conducted emission

### Definition:

The test assesses the ability of the EUT to limit its internal noise from being present on the AC mains Power and Signal Line In / Output ports.

|                                     |   |  |
|-------------------------------------|---|--|
| Test method                         | : | FCC Part 15.107                              |
| Test Date                           | : | 2023. 04. 06                                 |
| Temperature, Humidity               | : | 23.5 °C ~ 23.8 °C, 42.5 % R.H. ~ 42.8 % R.H. |
| Measurement Frequency range and RBW | : | 150 kHz ~ 30 MHz                             |
| Test mode                           | : | MODE 1 (refer to 4.4)                        |
| <i>Ut</i>                           | : | AC 120 V, 60 Hz(MODE 1)                      |
| Result                              |   | Pass   |

### A sample calculation:

- Corr (correction factor) = LISN Insertion loss + Cable loss
- Emission Level = meter reading + Corr
- Sample calculation; MODE 1
- At Frequency: 10.406 MHz Result = Reading + Corr = 34.2 dB(μV) + 10.11 dB = 44.31 dB(μV)  
( Quasi-peak,  CISPR-Average)
- Measurement Data kept in ICR





페이지(page) : ( 14 ) / ( 총(Total) 21 )

Limits for conducted emissions from the AC mains ports of class A equipment.

| Applicable to AC mains power port |                     |                        |
|-----------------------------------|---------------------|------------------------|
| Frequency Range (MHz)             | Quasi-Peak [dB(μV)] | CISPR-Average [dB(μV)] |
| 0.15 ~ 0.5                        | 79                  | 66                     |
| 0.5 ~ 30                          | 73                  | 60                     |

Limits for conducted emissions from the AC mains ports of class B equipment.

| Applicable to AC mains power port |                     |                        |
|-----------------------------------|---------------------|------------------------|
| Frequency Range (MHz)             | Quasi-Peak [dB(μV)] | CISPR-Average [dB(μV)] |
| 0.15 ~ 0.5                        | 66 ~ 56*            | 56 ~ 46*               |
| 0.5 ~ 5                           | 56                  | 46                     |
| 5 ~ 30                            | 60                  | 50                     |

\* Decreases with the logarithm of the frequency

Used equipments:

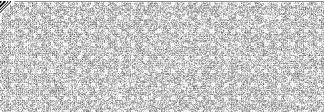
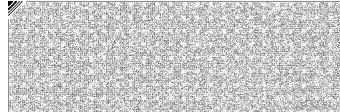
| Used                                | Equipment                    | Model no. | Makers      | Serial no. | Next Cal.    |
|-------------------------------------|------------------------------|-----------|-------------|------------|--------------|
| <input checked="" type="checkbox"/> | EMI Test Receiver            | ESR3      | R&S         | 102119     | 2024. 04. 04 |
| <input checked="" type="checkbox"/> | LISN(main)                   | ENV216    | R&S         | 102194     | 2024. 04. 03 |
| <input type="checkbox"/>            | LISN(sub)                    | ENV216    | R&S         | 102193     | 2024. 04. 03 |
| <input type="checkbox"/>            | LISN                         | NNLK 8130 | SCHWARZBECK | 05184      | 2023. 08. 11 |
| <input type="checkbox"/>            | LISN                         | NNLK 8121 | SCHWARZBECK | 8121-668   | 2023. 12. 08 |
| <input checked="" type="checkbox"/> | HUMIDITY/TEMP. DATA RECORDER | MHT-381SD | LUTRON      | AI.63101   | 2024. 02. 07 |

Test Software:

| Used                                | Description       | Model name | Manufacturer | Version. |
|-------------------------------------|-------------------|------------|--------------|----------|
| <input checked="" type="checkbox"/> | EMI Test Software | EMC32      | R & S        | 10.01.02 |

Measurement Data:

- Refer to the Next page.





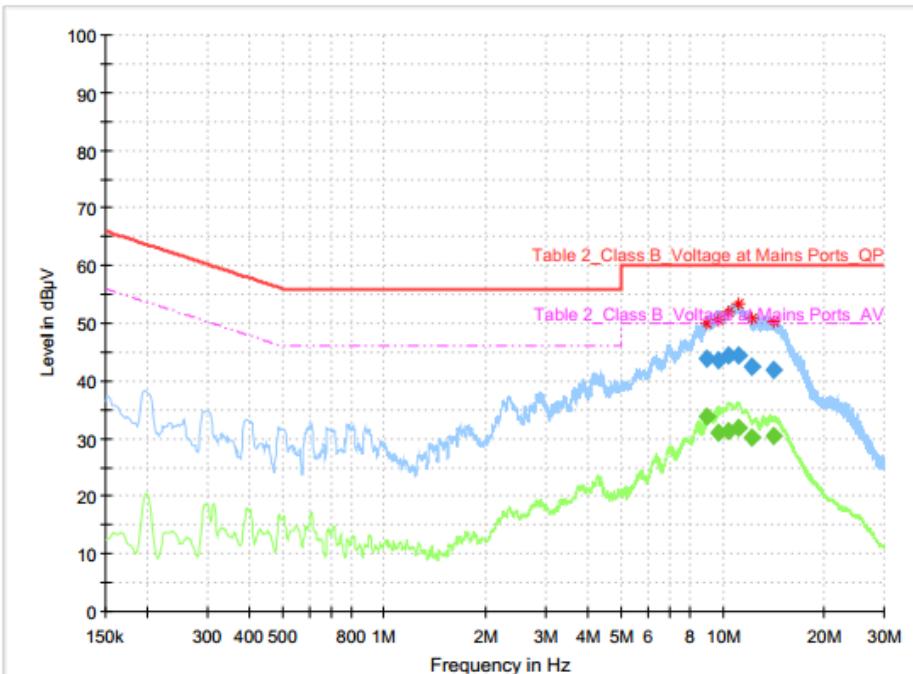
페이지(page) : ( 15 )/ 총(Total) 21 )

## [MODE 1] DATA

### Test Report

#### Common Information

Test Description: 2023-1061  
 Test Site ICR Shield Room  
 Operator Name: LEE S H  
 Comment: CE\_MODE 1



#### 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) |
|-----------------|------------------------|-----------------------|--------------------|-------------|-----------------|-----------------|------|------------|
| 8.941           | 43.72                  | ---                   | 60.00              | 16.28       | 5000.0          | 9.000           | N    | 9.99       |
| 8.941           | ---                    | 33.82                 | 50.00              | 16.18       | 5000.0          | 9.000           | N    | 9.99       |
| 9.758           | 43.60                  | ---                   | 60.00              | 16.40       | 5000.0          | 9.000           | L1   | 10.09      |
| 9.758           | ---                    | 31.05                 | 50.00              | 18.95       | 5000.0          | 9.000           | L1   | 10.09      |
| 10.406          | 44.31                  | ---                   | 60.00              | 15.69       | 5000.0          | 9.000           | L1   | 10.11      |
| 10.406          | ---                    | 31.33                 | 50.00              | 18.67       | 5000.0          | 9.000           | L1   | 10.11      |
| 11.130          | 44.31                  | ---                   | 60.00              | 15.69       | 5000.0          | 9.000           | L1   | 10.13      |
| 11.130          | ---                    | 31.74                 | 50.00              | 18.26       | 5000.0          | 9.000           | L1   | 10.13      |
| 12.260          | 42.49                  | ---                   | 60.00              | 17.51       | 5000.0          | 9.000           | L1   | 10.17      |
| 12.260          | ---                    | 30.23                 | 50.00              | 19.77       | 5000.0          | 9.000           | L1   | 10.17      |
| 14.100          | 41.85                  | ---                   | 60.00              | 18.15       | 5000.0          | 9.000           | L1   | 10.23      |
| 14.100          | ---                    | 30.45                 | 50.00              | 19.55       | 5000.0          | 9.000           | L1   | 10.23      |





페이지(page) : ( 16 ) / ( 총(Total) 21 )

## Attachment I

## PHOTOGRAPHS

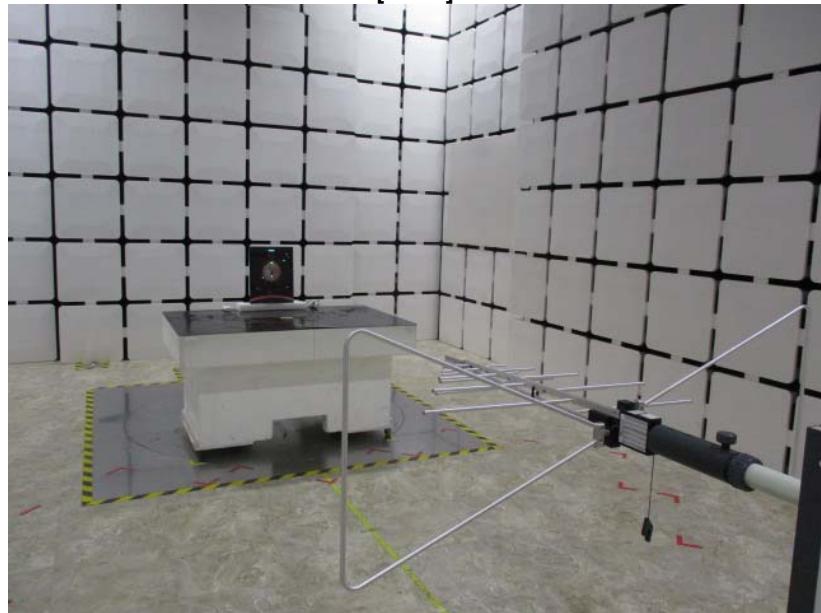




페이지(page) : ( 17 ) / ( 총(Total) 21 )

### Radiated emission (MODE 1)

[Front]



[Rear]





페이지(page) : ( 18 ) / ( 총(Total) 21 )

### Radiated emission (MODE 2)

[Front]



[Rear]

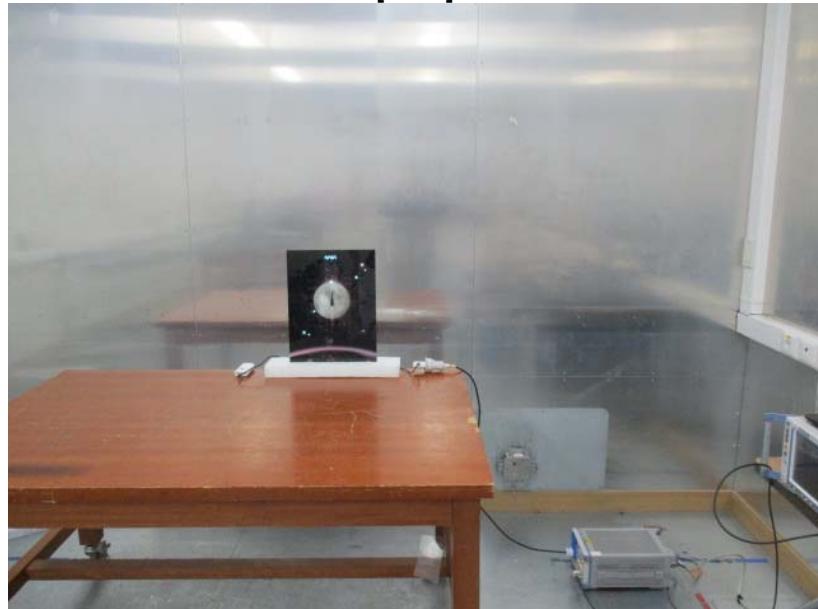




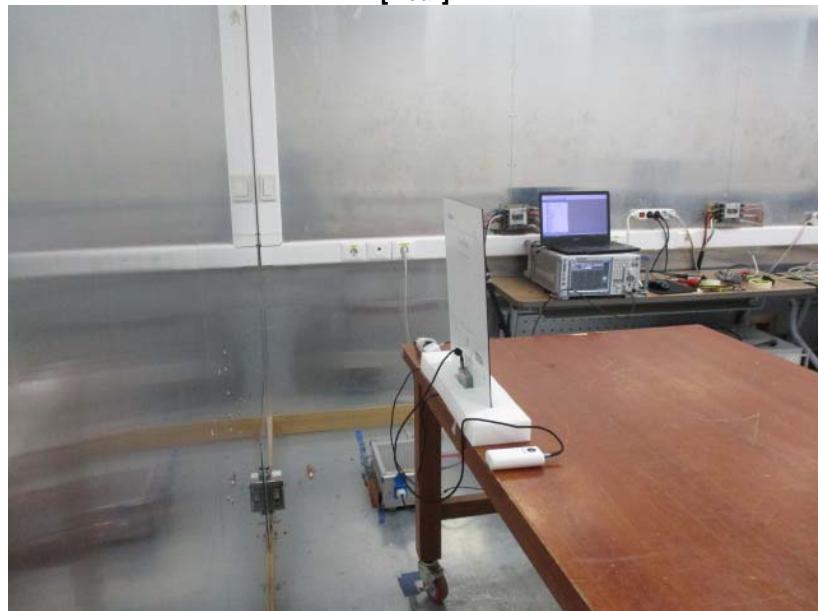
페이지(page) : ( 19 ) / ( 총(Total) 21 )

### Conducted emission (MODE 1)

[Front]



[Rear]





페이지(page) : ( 20 ) / ( 총(Total) 21 )

**EUT**

**[Front]**



**[Rear]**





페이지(page) : ( 21 ) / ( 총(Total) 21 )

**[Inside]**



- END -

