



KES Co., Ltd.

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Report No.:
KES-EM-23T0089
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EMC TEST REPORT

Test Report No. : KES-EM-23T0089
Date of Issue : Feb. 07, 2023
Product name : ANESTHESIA INJECTION SYSTEM(CRADLE)
Model/Type No. : AN100-C
Variant Mode : -
Applicant : DENTIS CO., LTD.
Applicant Address : 99, Seongseoseo-ro, Dalseo-gu, Daegu, Republic of Korea
Manufacturer : DENTIS MEDICAL DIVISION
Manufacturer Address : 6, Yuram-ro, Dong-gu, Daegu, Republic of Korea
FCC ID : 2AXRNAN100-C
Date of Receipt : Jan. 10, 2023
Test date : Jan. 14, 2023
Test Results : In Compliance Not in Compliance

Tested by

Reviewed by

Tae Yeon, Kim
EMC Test Engineer

Dong Hun, Jang
EMC Technical Manager

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REPORT REVISION HISTORY

| Date | Test Report No. | Revision History |
|---------------|-----------------|------------------|
| Feb. 07, 2023 | KES-EM-23T0089 | Issued |
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1.0 General Product Description

Main Specifications of EUT are:

| List | Category | Unit | Specification | etc |
|---|-----------------|------|-------------------|-----|
| ANESTHESIA INJECTION SYSTEM(CRADLE) | Weight | g | 140 | |
| | Size | mm | 176 X 41.4 X 75.3 | |
| Adapter | Rated input | V | AC 100 – 240 | |
| | | Hz | 50/60 | |
| | Rated output | V | DC 5 | |
| | | A | 2.0 | |
| | Weight | g | 104 | |

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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

1.2 Variant Model Differences

Additional derived models with management models by customer.

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

| Description | Model Number | Serial Number | Manufacturer | Remarks |
|-------------------------------------|---------------|---------------|------------------------------|---------|
| ANESTHESIA INJECTION SYSTEM(CRADLE) | AN100-C | - | DENTIS MEDICAL DIVISION | EUT |
| Medical Power Supply | ATM012T-W050V | - | Adapter Technology Co., Ltd. | EUT |

1.5 Support Equipments

| Description | Model Number | Serial Number | Manufacturer | Remarks |
|-----------------------------|--------------|---------------|-------------------------|---------|
| ANESTHESIA INJECTION SYSTEM | AN100 | - | DENTIS MEDICAL DIVISION | - |

1.6 External I/O Cabling

| Start | | END | | Cable Spec. | |
|-----------------------------|---------------------------|---|---------------------------|-------------|--------|
| Description | I/O Port | Description | I/O Port | Length | Shield |
| ANESTHESIA INJECTION SYSTEM | Wireless charging surface | ANESTHESIA INJECTION SYSTEM(CRADLE) (EUT) | Wireless charging surface | - | S |
| Medical Power Supply (EUT) | DC in | | DC out | 1.5 | U |

* Unshielded = U, Shielded = S

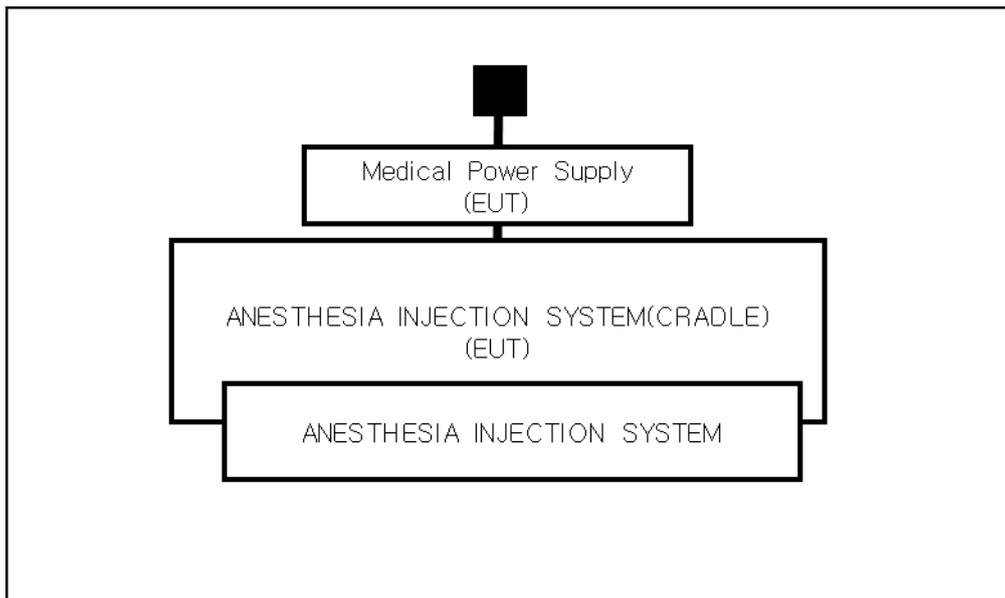
1.7 EUT Operating Mode(s)

| Test mode | Test Voltage | Test No. | operating |
|-------------------|-------------------------------|----------|---|
| Wireless charging | AC POWER (AC 120 V, 60 Hz) | - | Checked the LED while wireless charging the ANESTHESIA INJECTION SYSTEM with the ANESTHESIA INJECTION SYSTEM(CRADLE). |

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

1.8 Configuration

- AC Main
- DC Main



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-Aechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) |  KR0100 |
| International | KOLAS | EMI (3 m & 10 m Semi-Aechoic Chamber , and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) |  KT489 |
| USA | FCC | 3 m & 10 m Semi-Aechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements. |  KR0100 |
| Canada | ISED | 3 m & 10 m Semi-Aechoic Chamber and Conducted test site |  23298 |
| JAPAN | VCCI | Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1 GHz |  R-20056, C-20036 T-20040, G-20057 |
| Europe | TÜV SÜD | EMI (3 m & 10 m Semi-Aechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) |  CARAT 001633 0004 |

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2.0 Test Regulations

The emissions tests were performed according to following regulations:

47 CFR Part 15, Subpart B

CISPR 22:2009 +A1:2010

Class A

Class B

ANSI C63.4a-2017

Class A

Class B

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2.1 Conducted Emissions at Mains Power Ports

Test Date

Jan. 14, 2023

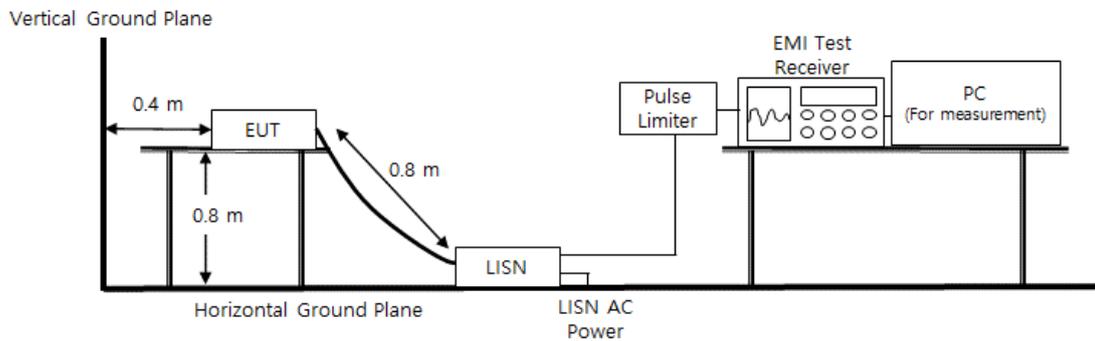
Test Location

Electro wave Shieldroom #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, 11, 2023 | 1 Year |
| <input checked="" type="checkbox"/> | LISN | ENV216 | R & S | 101787 | 11, 10, 2023 | 1 Year |
| <input type="checkbox"/> | LISN | ESH2-Z5 | R & S | 100450 | 11, 10, 2023 | 1 Year |
| <input checked="" type="checkbox"/> | PULSE LIMITER | ESH3-Z2 | R & S | 101915 | 11, 10, 2023 | 1 Year |

Diagram of test setup



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Test Conditions

Temperature: (22,6 ± 0,2) °C
Relative Humidity: (44,7 ± 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.

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2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jan. 14, 2023

Test Location

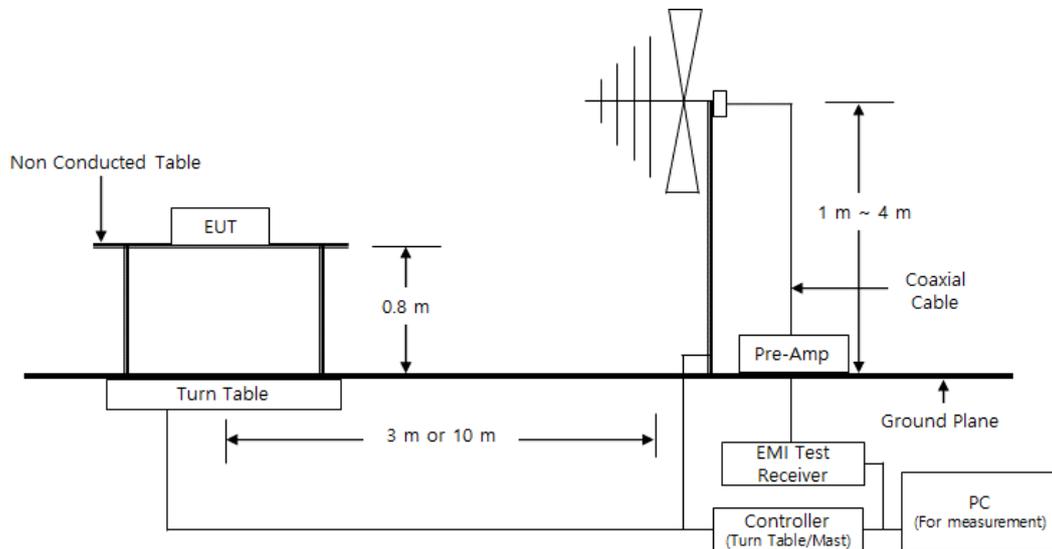
OPEN AREA TEST SITE #2

SEMI ANECHOIC CHAMBER #4(10m)

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 | 03, 31, 2023 | 1 Year |
| <input checked="" type="checkbox"/> | AMPLIFIER | SCU 01 | R & S | 100603 | 11, 10, 2023 | 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 | 03, 08, 2023 | 1 Year |

Diagram of test setup



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Test Conditions

Temperature: (22,3 ± 0,2) °C
Relative Humidity: (44,5 ± 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.

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jan. 14, 2023

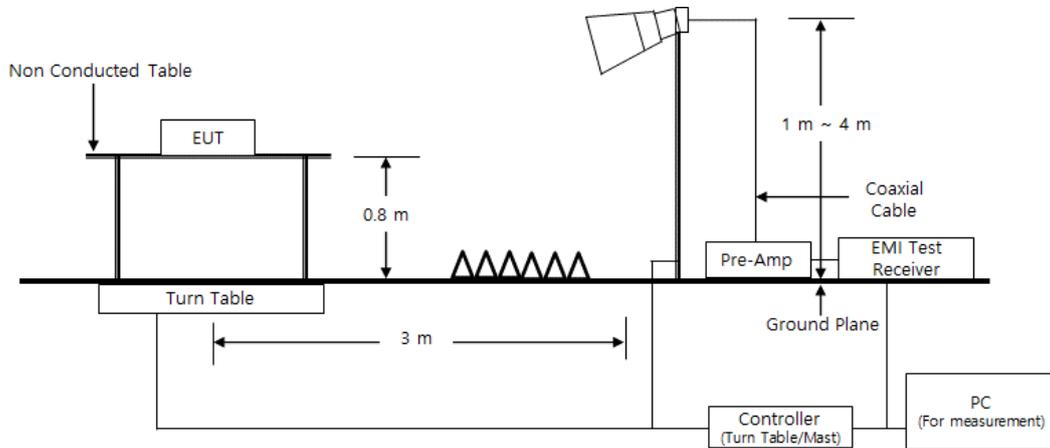
Test Location

SEMI ANECHOIC CHAMBER #5

Test Equipment

| Used | Description | Model Number | Manufacturer | Serial Number | Cal. Due | calibration interval |
|------|-------------------|--------------|------------------|---------------|--------------|----------------------|
| ☒ | EMI Test S/W | ES10/RE | TOYO Corporation | 2022.01.000 | - | - |
| ☒ | EMI TEST RECEIVER | ESU26 | Rohde & Schwarz | 100552 | 03, 31, 2023 | 1 Year |
| ☒ | HORN ANTENNA | BBHA 9120D | SCHWARZBECK | 9120D-1802 | 11, 08, 2023 | 1 Year |
| ☒ | PREAMPLIFIER | 8449B | HP | 3008A00538 | 06, 02, 2023 | 1 Year |
| ☒ | ATTENUATOR | 8491B | HP | 23094 | 04, 21, 2023 | 1 Year |

Diagram of test setup



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Test Conditions

Temperature: (23,0 ± 0,1) °C
Relative Humidity: (45,0 ± 0,2) % R.H.

Frequency Range of Measurement

1 GHz to 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.
- The frequency cannot be determined, so it is measured up to 5 GHz.

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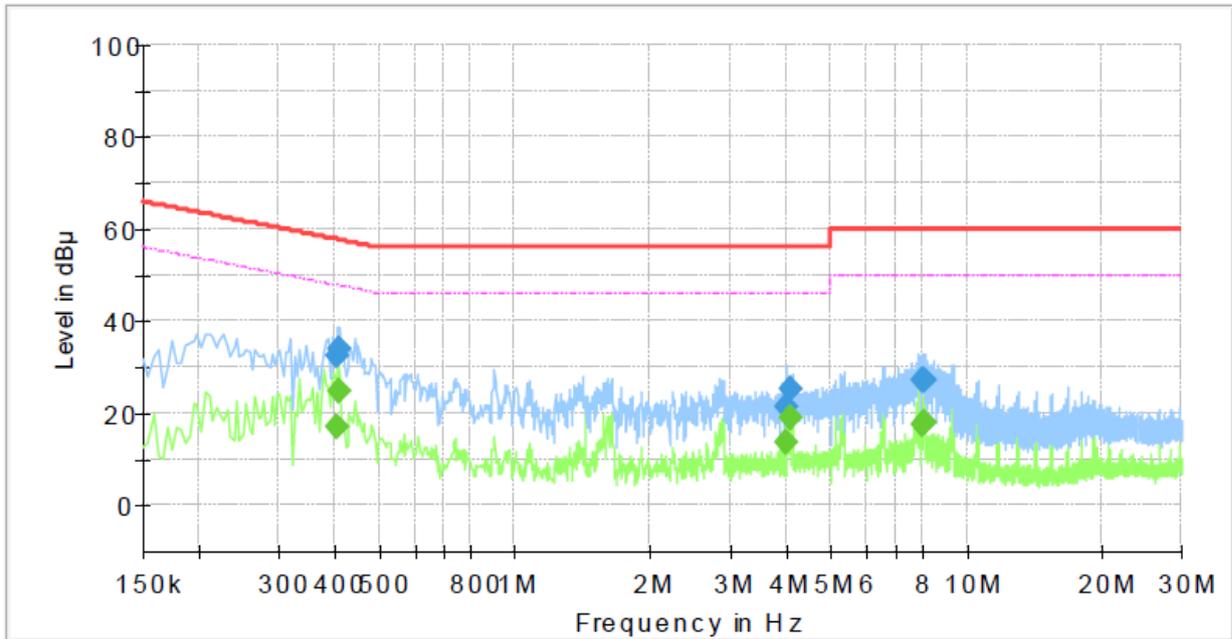
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

| | |
|-------------------|---------------------------|
| Test Description: | Conducted Emission |
| Model No.: | AN100-C |
| Phase: | L1 |
| Mode: | Charging / AC 120 V 60 Hz |
| Operator Name: | KES |



Final Result

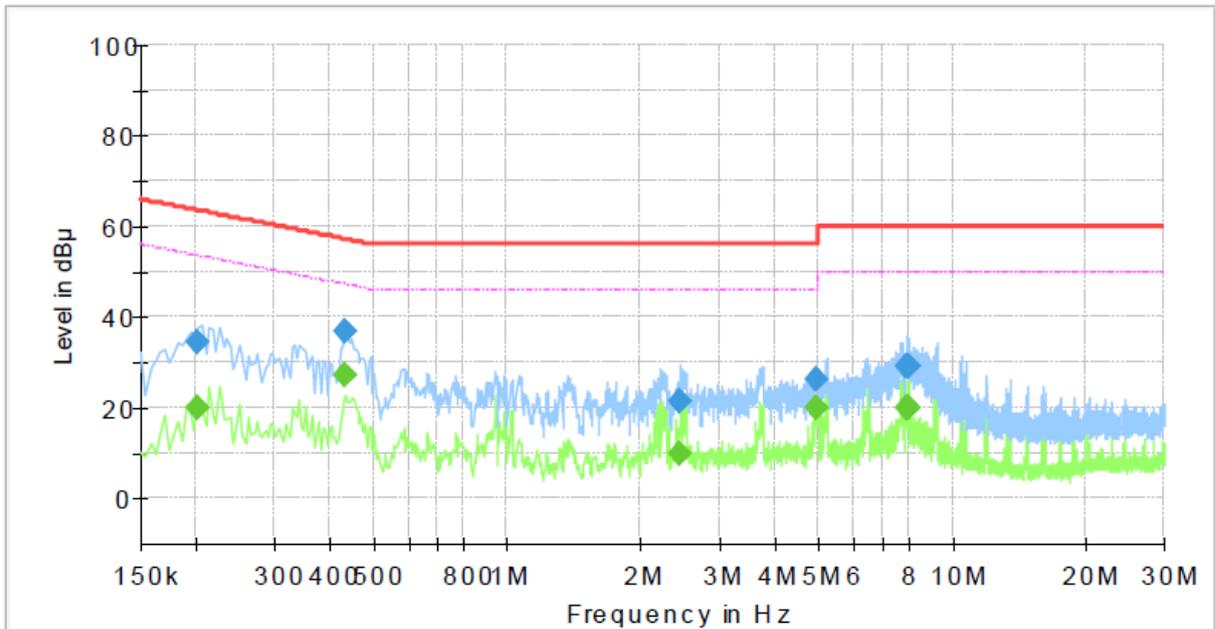
| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.406000 | --- | 17.15 | 47.73 | 30.58 | 1000.0 | 9.000 | L1 | 19.8 |
| 0.406000 | 32.65 | --- | 57.73 | 25.08 | 1000.0 | 9.000 | L1 | 19.8 |
| 0.410000 | --- | 24.64 | 47.65 | 23.01 | 1000.0 | 9.000 | L1 | 19.8 |
| 0.410000 | 34.07 | --- | 57.65 | 23.58 | 1000.0 | 9.000 | L1 | 19.8 |
| 4.006000 | --- | 13.47 | 46.00 | 32.53 | 1000.0 | 9.000 | L1 | 20.1 |
| 4.006000 | 21.28 | --- | 56.00 | 34.72 | 1000.0 | 9.000 | L1 | 20.1 |
| 4.062000 | --- | 18.93 | 46.00 | 27.07 | 1000.0 | 9.000 | L1 | 20.1 |
| 4.062000 | 25.23 | --- | 56.00 | 30.77 | 1000.0 | 9.000 | L1 | 20.1 |
| 7.998000 | --- | 17.53 | 50.00 | 32.47 | 1000.0 | 9.000 | L1 | 20.0 |
| 7.998000 | 26.97 | --- | 60.00 | 33.03 | 1000.0 | 9.000 | L1 | 20.0 |
| 8.070000 | --- | 17.80 | 50.00 | 32.20 | 1000.0 | 9.000 | L1 | 20.0 |
| 8.070000 | 27.28 | --- | 60.00 | 32.72 | 1000.0 | 9.000 | L1 | 20.0 |

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NEUTRAL LINE

Common Information

| | |
|-------------------|---------------------------|
| Test Description: | Conducted Emission |
| Model No.: | AN100-C |
| Phase: | N |
| Mode: | Charging / AC 120 V 60 Hz |
| Operator Name: | KES |



Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.202000 | 34.35 | --- | 63.53 | 29.18 | 1000.0 | 9.000 | N | 19.6 |
| 0.202000 | --- | 20.05 | 53.53 | 33.48 | 1000.0 | 9.000 | N | 19.6 |
| 0.434000 | --- | 27.23 | 47.18 | 19.95 | 1000.0 | 9.000 | N | 19.8 |
| 0.434000 | 36.68 | --- | 57.18 | 20.50 | 1000.0 | 9.000 | N | 19.8 |
| 2.454000 | --- | 9.54 | 46.00 | 36.46 | 1000.0 | 9.000 | N | 20.4 |
| 2.454000 | 21.12 | --- | 56.00 | 34.88 | 1000.0 | 9.000 | N | 20.4 |
| 4.938000 | --- | 20.11 | 46.00 | 25.89 | 1000.0 | 9.000 | N | 19.9 |
| 4.938000 | 26.36 | --- | 56.00 | 29.64 | 1000.0 | 9.000 | N | 19.9 |
| 7.938000 | --- | 20.00 | 50.00 | 30.00 | 1000.0 | 9.000 | N | 20.0 |
| 7.938000 | 29.06 | --- | 60.00 | 30.94 | 1000.0 | 9.000 | N | 20.0 |
| 8.010000 | --- | 19.80 | 50.00 | 30.20 | 1000.0 | 9.000 | N | 20.0 |
| 8.010000 | 29.07 | --- | 60.00 | 30.93 | 1000.0 | 9.000 | N | 20.0 |

◆ 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))

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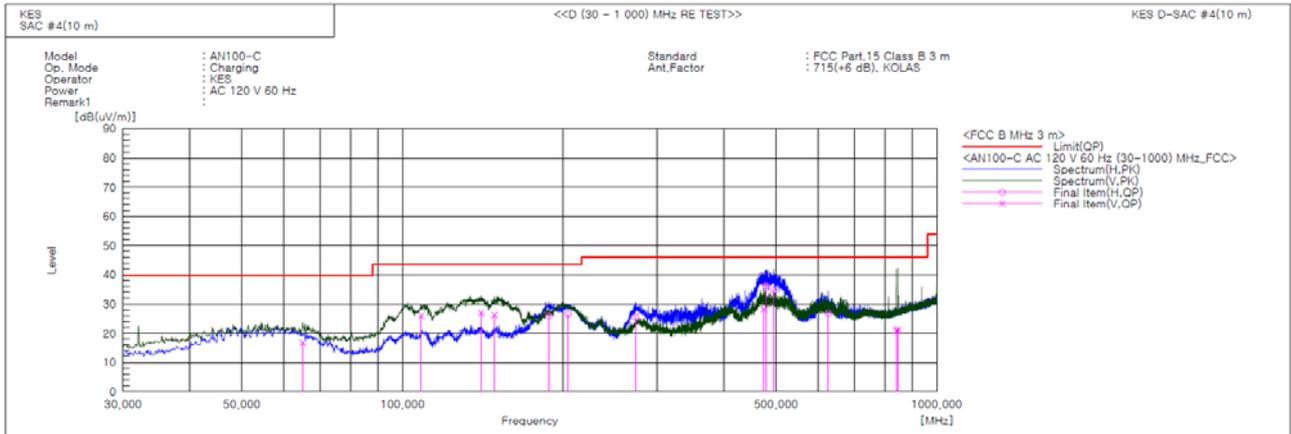


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Radiated Electric Field Emissions(Below 1 GHz)



Final Result

| No. | Frequency [MHz] | (P) | Reading [dB(uV)] | c.f [dB(1/m)] | Result [dB(uV/m)] | Limit [dB(uV/m)] | Margin [dB] | Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|------------------|---------------|-------------------|------------------|-------------|-------------|-------------|--------|
| 1 | 65.041 | V | 40.0 | -23.3 | 16.7 | 40.0 | 23.3 | 110.0 | 154.0 | |
| 2 | 108.328 | V | 49.0 | -23.0 | 26.0 | 43.5 | 17.5 | 101.0 | 104.0 | |
| 3 | 140.338 | V | 52.6 | -25.7 | 26.9 | 43.5 | 16.6 | 111.0 | 152.0 | |
| 4 | 148.583 | V | 51.8 | -25.6 | 26.2 | 43.5 | 17.3 | 123.0 | 70.0 | |
| 5 | 187.625 | H | 49.1 | -23.1 | 26.0 | 43.5 | 17.5 | 216.0 | 193.0 | |
| 6 | 204.236 | H | 48.0 | -21.4 | 26.6 | 43.5 | 16.9 | 184.0 | 174.0 | |
| 7 | 273.106 | H | 44.8 | -19.3 | 25.5 | 46.0 | 20.5 | 126.0 | 98.0 | |
| 8 | 473.896 | V | 41.1 | -12.8 | 28.3 | 46.0 | 17.7 | 249.0 | 348.0 | |
| 9 | 479.110 | H | 49.0 | -12.7 | 36.3 | 46.0 | 9.7 | 185.0 | 92.0 | |
| 10 | 494.994 | H | 47.0 | -12.2 | 34.8 | 46.0 | 11.2 | 211.0 | 95.0 | |
| 11 | 626.793 | H | 35.8 | -9.0 | 26.8 | 46.0 | 19.2 | 114.0 | 272.0 | |
| 12 | 839.950 | V | 28.4 | -7.5 | 20.9 | 46.0 | 25.1 | 276.0 | 188.0 | |
| 13 | 846.134 | V | 28.4 | -7.2 | 21.2 | 46.0 | 24.8 | 100.0 | 297.0 | |

◆ Calculation – SAC #4(10 m)

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

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

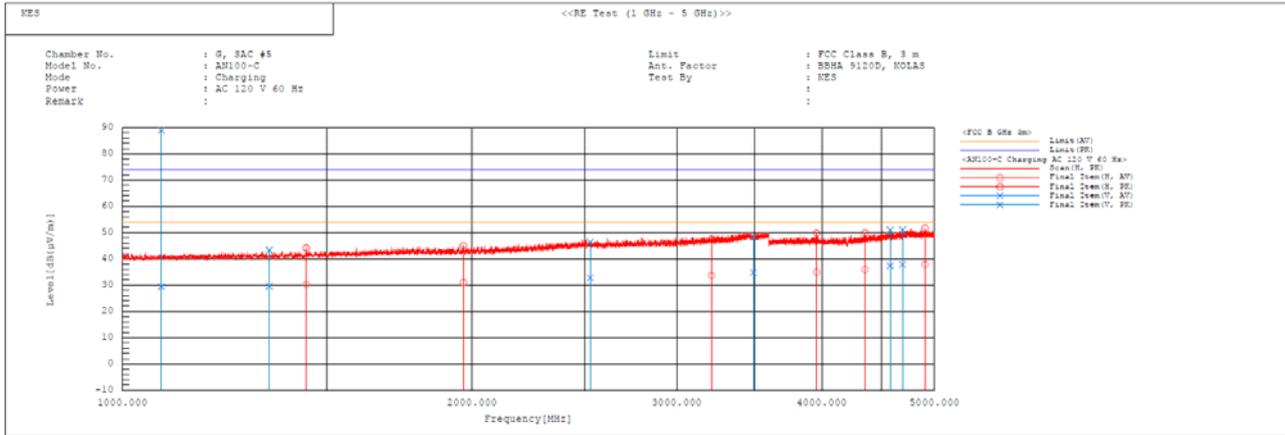
Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

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

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Radiated Electric Field Emissions(Above 1 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 | 1080.000 | V | 31.5 | 91.1 | -2.1 | 29.4 | 89.0 | 54.0 | 74.0 | 24.6 | -15.0 | 400.0 | 91.0 | |
| 2 | 1338.000 | V | 30.4 | 44.1 | -0.8 | 29.6 | 43.3 | 54.0 | 74.0 | 24.4 | 30.7 | 396.0 | 356.8 | |
| 3 | 1439.200 | H | 30.5 | 44.4 | -0.3 | 30.2 | 44.1 | 54.0 | 74.0 | 23.8 | 29.9 | 199.6 | 226.0 | |
| 4 | 1965.200 | H | 29.3 | 43.3 | 1.8 | 31.1 | 45.1 | 54.0 | 74.0 | 22.9 | 28.9 | 186.0 | 261.6 | |
| 5 | 2526.800 | V | 29.2 | 42.8 | 3.6 | 32.8 | 46.4 | 54.0 | 74.0 | 21.2 | 27.6 | 151.0 | 344.8 | |
| 6 | 3214.000 | H | 28.4 | 42.2 | 5.3 | 33.7 | 47.5 | 54.0 | 74.0 | 20.3 | 26.5 | 200.0 | 209.4 | |
| 7 | 3493.200 | V | 29.1 | 42.5 | 5.7 | 34.8 | 48.2 | 54.0 | 74.0 | 19.2 | 25.8 | 400.0 | 97.1 | |
| 8 | 3958.400 | H | 28.3 | 43.1 | 6.7 | 35.0 | 49.8 | 54.0 | 74.0 | 19.0 | 24.2 | 100.0 | 268.5 | |
| 9 | 4356.800 | H | 27.6 | 41.5 | 8.4 | 36.0 | 49.9 | 54.0 | 74.0 | 18.0 | 24.1 | 400.0 | 1.0 | |
| 10 | 4578.800 | V | 28.3 | 41.9 | 9.1 | 37.4 | 51.0 | 54.0 | 74.0 | 16.6 | 23.0 | 101.0 | 293.8 | |
| 11 | 4693.200 | V | 28.3 | 41.6 | 9.5 | 37.8 | 51.1 | 54.0 | 74.0 | 16.2 | 22.9 | 400.0 | 210.6 | |
| 12 | 4906.800 | H | 27.3 | 41.1 | 10.6 | 37.9 | 51.7 | 54.0 | 74.0 | 16.1 | 22.3 | 400.0 | 1.0 | |

◆ Calculation

$$\text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})] = (\text{Reading(PK/CAV)}[\text{dB}(\mu\text{V})] + \text{c.f}[\text{dB}(1/\text{m})])$$

$$\text{Margin(PK/CAV)}[\text{dB}] = \text{Limit}[\text{dB}(\mu\text{V}/\text{m})] - \text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})]$$

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