

FCC C2PC REPORT

Product Name : Karaoke Microphone
Brand Mark : CORE INNOVATIONS
Model No. : KRMC101
Serial Model : KRMC101BL,KRMC101RG,KRMC101LC
FCC ID : 2AVRKRM101
Report Number : BLA-EMC-202403-A9602
Date of Sample Receipt : 2024/3/27
Date of Test : 2024/3/28 to 2024/4/7
Date of Issue : 2024/4/7
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Prepared for:

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2024/4/7



REPORT REVISE RECORD

| Version No. | Date | Description |
|-------------|----------|-------------|
| 00 | 2024/4/7 | Original |

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1 Test summary

| Test item | Test Requirement | Test Method | Class/Severity | Result |
|---|----------------------------------|--|--|--------|
| Dwell Time | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.4 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | N/A |
| Hopping Channel Number | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.3 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | N/A |
| Carrier Frequencies Separation | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.2 | 47 CFR Part 15, Subpart C 15.247a(1) | N/A |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.7 | 47 CFR Part 15, Subpart C 15.247(a)(1) | N/A |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.5 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.4,6.5,6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(c) | Pass |
| Conducted Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.6 & Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | N/A |
| Conducted Band Edges Measurement | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | N/A |

Remark:

N/A: Not Applicable

The prototype only changed the resistance; So only differential testing was conducted.

2 General information

| | |
|-----------------------|---|
| Applicant | DP Audio Video LLC |
| Address | 920 Malcolm Ave, LA CA 90024 |
| Manufacturer | Shuer (ShenZhen) Electronics Co., Ltd. |
| Address | A607, Dawangshan Rainbow Residence, No. 1007, West Ring Road, Dawangshan Community, Shajing Street, Bao'an District, Shenzhen |
| Factory | N/A |
| Address | N/A |
| Product Name | Karaoke Microphone |
| Test Model No. | KRMC101 |
| Serial Model | KRMC101BL,KRMC101RG,KRMC101LC |
| Remark | All models are electrically identical , only model no. and color is different. |

3 General description of EUT

| | |
|-----------------------------|------------------------------------|
| Hardware Version | N/A |
| Software Version | N/A |
| Engineer sample no: | BLA-EMC-202403-A96 |
| Operation Frequency: | 2402MHz-2480MHz |
| Modulation Type: | GFSK, pi/4DQPSK, 8DPSK |
| Channel Spacing: | 1MHz |
| Number of Channels: | 79 |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | -0.58dBi(Provided by the customer) |

4 Operation frequency each of channel

BT:

| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz |
| 3 | 2404MHz | 23 | 2424MHz | 43 | 2444MHz | 63 | 2464MHz |
| 4 | 2405MHz | 24 | 2425MHz | 44 | 2445MHz | 64 | 2465MHz |
| 5 | 2406MHz | 25 | 2426MHz | 45 | 2446MHz | 65 | 2466MHz |
| 6 | 2407MHz | 26 | 2427MHz | 46 | 2447MHz | 66 | 2467MHz |
| 7 | 2408MHz | 27 | 2428MHz | 47 | 2448MHz | 67 | 2468MHz |
| 8 | 2409MHz | 28 | 2429MHz | 48 | 2449MHz | 68 | 2469MHz |
| 9 | 2410MHz | 29 | 2430MHz | 49 | 2450MHz | 69 | 2470MHz |
| 10 | 2411MHz | 30 | 2431MHz | 50 | 2451MHz | 70 | 2471MHz |
| 11 | 2412MHz | 31 | 2432MHz | 51 | 2452MHz | 71 | 2472MHz |
| 12 | 2413MHz | 32 | 2433MHz | 52 | 2453MHz | 72 | 2473MHz |
| 13 | 2414MHz | 33 | 2434MHz | 53 | 2454MHz | 73 | 2474MHz |
| 14 | 2415MHz | 34 | 2435MHz | 54 | 2455MHz | 74 | 2475MHz |
| 15 | 2416MHz | 35 | 2436MHz | 55 | 2456MHz | 75 | 2476MHz |
| 16 | 2417MHz | 36 | 2437MHz | 56 | 2457MHz | 76 | 2477MHz |
| 17 | 2418MHz | 37 | 2438MHz | 57 | 2458MHz | 77 | 2478MHz |
| 18 | 2419MHz | 38 | 2439MHz | 58 | 2459MHz | 78 | 2479MHz |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|--------------------|-----------|
| The lowest channel | 2402MHz |

| | |
|---------------------|---------|
| The middle channel | 2441MHz |
| The Highest channel | 2480MHz |

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5 Test environment

| Environment | Temperature | Voltage |
|-------------|-------------|---------|
| Normal | 25°C | 3.7Vdc |

6 Test mode

| TEST MODE | TEST MODE DESCRIPTION |
|-----------|---|
| TX | Keep the EUT in continuously transmitting mode with modulation. (hopping and non hopping mode all have been tested, non hopping mode is worse case for RE) |

Remark: Full battery is used during all test except ac conducted emission,

7 Measurement uncertainty

| Parameter | Expanded Uncertainty (Confidence of 95%) |
|--|--|
| Occupied Channel Bandwidth | ±5 % |
| RF output power, conducted | ±1.5 dB |
| Power Spectral Density, conducted | ±3.0 dB |
| Unwanted Emissions, conducted | ±3.0 dB |
| Temperature | ±3 °C |
| Supply voltages | ±3 % |
| Time | ±5 % |
| Radiated Emission(9kHz-30MHz) | ±4.34dB |
| AC Power Line Conducted Emission(150kHz-30MHz) | ±3.45dB |
| Unwanted Radiated Emission (30MHz ~ 1000MHz) | ±4.35 dB |
| Unwanted Radiated Emission (1GHz ~ 18GHz) | ±4.44 dB |

8 Description of support unit

| Device Type | Manufacturer | Model Name | Serial No. | Remark |
|-------------|--------------|------------|------------|------------------------------------|
| PC | lenovo | E460C | N/A | From lab (No.BLA-ZC-BS-2022005) |
| AC Adapter | UGREEN | CD112 | N/A | N/A |

9 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

- FCC — Designation No.: CN1252

BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Designation CN1252.

- ISED — CAB identifier No.: CN0028

BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028.

10 Laboratory location

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

11 Test instruments list

| Test equipment of radiated spurious emissions | | | | | |
|---|--------------|------------------------|------------------|------------|------------|
| Equipment | Manufacturer | Model | S/N | Cal.Date | Cal.Due |
| Chamber 1 | SKET | 966 | N/A | 2023/11/16 | 2026/11/15 |
| Chamber 2 | SKET | 966 | N/A | 2021/07/20 | 2024/7/19 |
| Spectrum | R&S | FSP40 | 100817 | 2023/08/30 | 2024/08/29 |
| Receiver | R&S | ESR7 | 101199 | 2023/08/30 | 2024/08/29 |
| Receiver | R&S | ESPI7 | 101477 | 2023/07/07 | 2024/07/06 |
| broadband Antenna | Schwarzbeck | VULB9168 | 00836 P:00227 | 2022/10/12 | 2025/10/11 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 01892 P:00331 | 2022/09/13 | 2025/09/12 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 1106 | 2022/04/24 | 2024/04/23 |
| Amplifier | SKET | LNPA_30M01G-30 | SK2021060801 | 2023/07/07 | 2024/07/06 |
| Amplifier | SKET | PA-000318G-45 | N/A | 2023/08/30 | 2024/08/29 |
| Amplifier | SKET | LNPA_18G40G-50 | SK2022071301 | 2023/07/14 | 2024/07/13 |
| Filter group | SKET | 2.4G/5G Filter group r | N/A | 2023/07/07 | 2024/07/06 |
| EMI software | EZ | EZ-EMC | EEMC-3A1 | N/A | N/A |
| Loop antenna | SCHNARZBECK | FMZB1519B | 00102 | 2022/09/14 | 2025/09/13 |
| 1kHz calibration audio source | SKET | MCS-ABT-C35 | N/A | 2023/09/04 | 2024/09/03 |
| Free Field Microphone | SKET | MGS MP 663 | 0414 | 2023/09/04 | 2024/09/03 |
| Controller | SKET | N/A | N/A | N/A | N/A |
| Coaxial Cable | BlueAsia | BLA-XC-02 | N/A | N/A | N/A |
| Coaxial Cable | BlueAsia | BLA-XC-03 | N/A | N/A | N/A |

| | | | | | |
|----------------------|----------|-----------|-----|-----|-----|
| Coaxial Cable | BlueAsia | BLA-XC-01 | N/A | N/A | N/A |
| Signal Generator DTV | ECREDIX | DSG-1000 | N/A | N/A | N/A |

| Test equipment of Conducted emissions at AC power line (150kHz-30MHz) | | | | | |
|--|---------------------|--------------|---------------|-----------------|----------------|
| Equipment | Manufacturer | Model | S/N | Cal.Date | Cal.Due |
| Shield room | SKET | 833 | N/A | 2023/11/16 | 2025/11/15 |
| Receiver | R&S | ESPI3 | 101082 | 2023/08/30 | 2024/08/29 |
| LISN | R&S | ENV216 | 3560.6550.15 | 2023/08/30 | 2024/08/29 |
| LISN | AT | AT166-2 | AKK1806000003 | 2023/08/30 | 2024/08/29 |
| ISN | TESEQ | ISNT8-cat6 | 53580 | 2023/08/30 | 2024/08/29 |
| Single-channel vehicle artificial power network | Schwarzbeck | NNBM 8124 | 01045 | 2023/07/07 | 2024/07/06 |
| Single-channel vehicle artificial power network | Schwarzbeck | NNBM 8124 | 01075 | 2023/07/07 | 2024/07/06 |
| EMI software | EZ | EZ-EMC | EEMC-3A1 | N/A | N/A |

| Test equipment of RF conducted test | | | | | |
|--|---------------------|--------------|---------------|-----------------|----------------|
| Equipment | Manufacturer | Model | S/N | Cal.Date | Cal.Due |
| Spectrum | R&S | FSP40 | 100817 | 2023/08/30 | 2024/08/29 |
| Spectrum | Agilent | N9020A | MY49100060 | 2023/08/30 | 2024/08/29 |
| Spectrum | Agilent | N9020A | MY54420161 | 2023/08/30 | 2024/08/29 |
| Signal Generator | Agilent | N5182A | MY47420955 | 2023/08/30 | 2024/08/29 |
| Signal Generator | Agilent | N5181A | MY46240904 | 2023/07/07 | 2024/07/06 |
| Signal Generator | R&S | CMW500 | 132429 | 2023/08/30 | 2024/08/29 |
| BluetoothTester | Anritsu | MT8852B | 06262047872 | 2023/08/30 | 2024/08/29 |
| Power probe | DARE | RPR3006W | 14I00889SN042 | 2023/09/01 | 2024/08/31 |

| | | | | | |
|------------------------------|-----------------|-----------|-----------------|------------|------------|
| Power detection box | CDKMOV | MW100-PSB | MW201020JYT | 2023/07/07 | 2024/07/06 |
| DCPowersupply | zhaoxin | KXN-305D | 20K305D1221363 | 2023/08/30 | 2024/08/29 |
| DCPowersupply | zhaoxin | RXN-1505D | 19R1505D050168 | 2023/08/30 | 2024/08/29 |
| 2.4GHz/5GHz RF Test software | MTS | MTS 8310 | Version 2.0.0.0 | N/A | N/A |
| Audio Analyzer | Audio Precision | ATS-1 | ATS141094 | 2023/07/07 | 2024/07/06 |

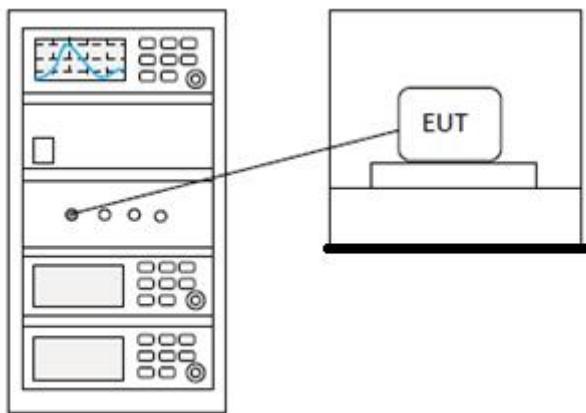
12 Conducted peak output power

| | |
|-------------------------------|----------------------------------|
| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
| Test Method | ANSI C63.10 (2013) Section 7.8.5 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |
| Tester | Miata |
| Temperature | 25°C |
| Humidity | 53% |

12.1 Limits

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|-----------------------------|--|
| 902-928 | 1 for ≥ 50 hopping channels |
| | 0.25 for $25 \leq$ hopping channels < 50 |
| | 1 for digital modulation |
| 2400-2483.5 | 1 for ≥ 75 non-overlapping hopping channels |
| | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

12.2 Block diagram of test setup



12.3 Test data

Pass: Please Refer To Appendix: Appendix1 For Details

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13 Conducted emissions at AC power line (150kHz-30MHz)

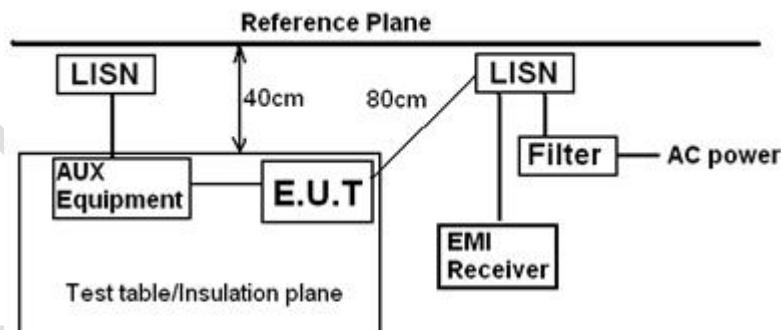
| | |
|-------------------------------|----------------------------------|
| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
| Test Method | ANSI C63.10 (2013) Section 6.2 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |
| Tester | Miata |
| Temperature | 25°C |
| Humidity | 53% |

13.1 Limits

| Frequency of emission(MHz) | Conducted limit(dB μ V) | |
|----------------------------|-----------------------------|-----------|
| | 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.

13.2 Block diagram of test setup



Remark:
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m

13.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal

ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

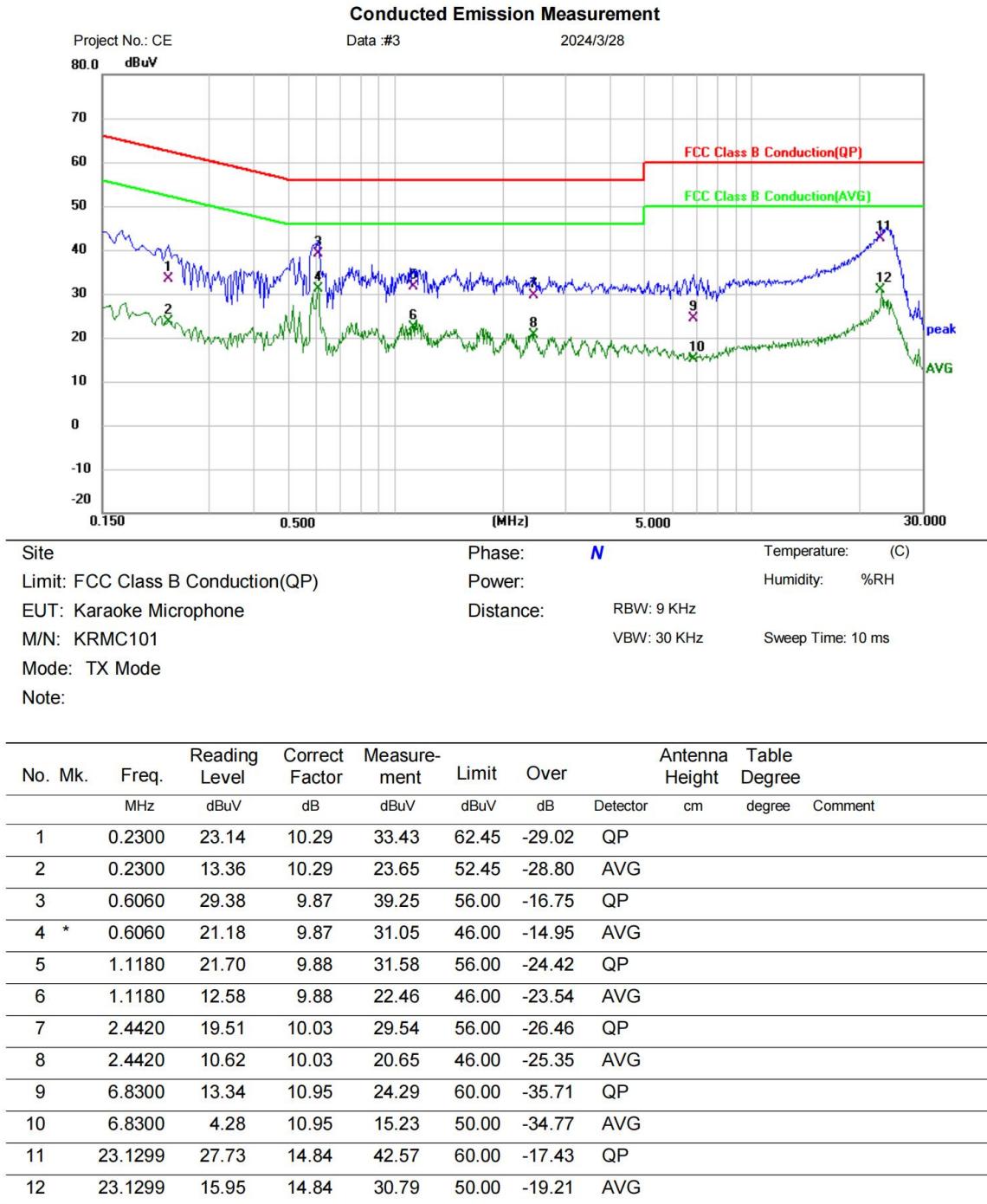
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

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13.4 Test data

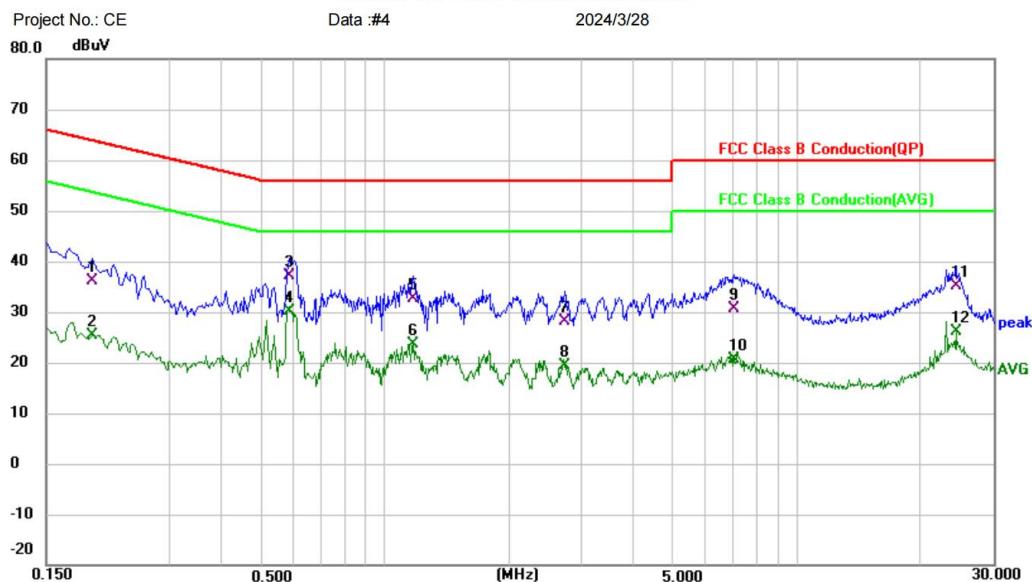
[Test mode: TX mode]; [Line: Nutral]; [Power:120V/60Hz]



Test Result: Pass

[Test mode: TX mode]; [Line: Line]; [Power:120V/60Hz]

Conducted Emission Measurement


Site Phase: **L1** Temperature: (C)

Limit: FCC Class B Conduction(QP) Power: Humidity: %RH

EUT: Karaoke Microphone Distance: RBW: 9 KHz

M/N: KRMC101 VBW: 30 KHz Sweep Time: 10 ms

Mode: TX Mode

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Antenna Height | Table Degree | Comment |
|-----|-----|---------|---------------|----------------|--------------|-------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | cm | degree |
| 1 | | 0.1940 | 25.85 | 10.30 | 36.15 | 63.86 | -27.71 | QP | | |
| 2 | | 0.1940 | 15.09 | 10.30 | 25.39 | 53.86 | -28.47 | AVG | | |
| 3 | | 0.5860 | 27.11 | 9.91 | 37.02 | 56.00 | -18.98 | QP | | |
| 4 * | | 0.5860 | 20.21 | 9.91 | 30.12 | 46.00 | -15.88 | AVG | | |
| 5 | | 1.1660 | 22.90 | 9.85 | 32.75 | 56.00 | -23.25 | QP | | |
| 6 | | 1.1660 | 13.88 | 9.85 | 23.73 | 46.00 | -22.27 | AVG | | |
| 7 | | 2.7220 | 18.09 | 10.09 | 28.18 | 56.00 | -27.82 | QP | | |
| 8 | | 2.7220 | 9.39 | 10.09 | 19.48 | 46.00 | -26.52 | AVG | | |
| 9 | | 7.0620 | 19.71 | 10.91 | 30.62 | 60.00 | -29.38 | QP | | |
| 10 | | 7.0620 | 9.76 | 10.91 | 20.67 | 50.00 | -29.33 | AVG | | |
| 11 | | 24.3500 | 20.13 | 14.99 | 35.12 | 60.00 | -24.88 | QP | | |
| 12 | | 24.3500 | 11.22 | 14.99 | 26.21 | 50.00 | -23.79 | AVG | | |

Test Result: Pass

14 Radiated spurious emissions

| | |
|-------------------------------|--|
| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
| Test Method | ANSI C63.10 (2013) Section 6.4,6.5,6.6 |
| Test Mode (Pre-Scan) | TX |
| Test Mode (Final Test) | TX |
| Tester | Miata |
| Temperature | 25 °C |
| Humidity | 53% |

14.1 Limits

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|-----------------------|---|-------------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.