FCC Part 15C Measurement and Test Report

For

Dongguan Faraoou Electric Appliance Co., Ltd

FCC ID: 2BF3S-FS-R206

| FCC Rule(s): | FCC Part 15.247 | |
|---|-----------------------------------|---|
| Product Description: | Bluetooth audio | |
| Tested Model: | <u>FS-R206</u> | |
| Report No.: | BSL240461089502RF | |
| Tested Date: | <u>Apr. 2~26, 2024</u> | |
| Issued Date: | <u>Apr. 26, 2024</u> | |
| Tested By: | <u>Lris Yao / Engineer</u> | Lris Yao |
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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

| Client Information | |
|--------------------------|---|
| Applicant: | Dongguan Faraoou Electric Appliance Co., Ltd |
| Address of applicant: | No. 46, Chang'antang Village, Dongkeng Town, Dongguan City, |
| | Guangdong Province |
| | |
| Manufacturer: | Dongguan Faraoou Electric Appliance Co., Ltd |
| Address of manufacturer: | No. 46, Chang'antang Village, Dongkeng Town, Dongguan City, |
| | Guangdong Province |

| General Description of EUT | | |
|--|---------------------|--|
| Product Name: | Bluetooth audio | |
| Brand Name: | N/A | |
| Models No.: | FS-R206, FS-R207 | |
| Rated Voltage: | AC 100-240V 50/60Hz | |
| Note: The test data is gathered from a production sample provided by the manufacturer. | | |

| Technical Characteristics of EUT | | |
|----------------------------------|--------------------|--|
| Bluetooth Version: | V5.0 | |
| Frequency Range: | 2402-2480MHz | |
| Modulation: | GFSK | |
| Quantity of Channels: | 40 | |
| Channel Separation: | 2MHz | |
| Type of Antenna: | Inverted F Antenna | |
| Antenna Gain: | -0.58dBi | |

1.2 Test Standards

The following report is prepared on behalf of the Dongguan Faraoou Electric Appliance Co., Ltd in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 558074 D01 v05r02 for digital transmission systems shall be performed also.

1.4 Test Facility

BSL Testing Co.,LTD.

1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, ShiyanStreet, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

FCC Test Firm Registration Number: 562200 Designation Number: CN1338

Tel: 400-882-9628 Fax: 86-755-26508703

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode L | ist | |
|-------------|-------------|---------------------------|
| Test Mode | Description | Remark |
| TM1 | GFSK(BLE) | 2402MHz, 2440MHz, 2480MHz |

| EUT Cable List and Det | tails | | |
|------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| Special Cable List and I | Details | | |
|--------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| Auxiliary Equipment List and Details | | | | |
|--------------------------------------|--------------|-------|---------------|--|
| Description | Manufacturer | Model | Serial Number | |
| | | | | |
| | | | | |
| | | | | |

1.6 Measurement Uncertainty

| Measurement uncertainty | | |
|--------------------------------|------------|---------------|
| Parameter | Conditions | Uncertainty |
| RF Output Power | Conducted | ± 0.42 dB |
| Occupied Bandwidth | Conducted | $\pm 1.5\%$ |
| Power Spectral Density | Conducted | ± 1.8 dB |
| Conducted Spurious Emission | Conducted | $\pm 2.17 dB$ |
| Conducted Emissions | Conducted | ± 2.88 dB |
| Transmitter Spurious Emissions | Radiated | ± 5.1 dB |

| Description | Manufacturer | Model | Serial No. | Cal Date | Due. Date |
|----------------------|------------------|--------------|------------|------------|------------|
| Communication Tester | Rohde & Schwarz | CMW500 | 100358 | 2023-10-27 | 2024-10-26 |
| Spectrum Analyzer | R&S | FSP40 | 100550 | 2023-10-27 | 2024-10-26 |
| Test Receiver | R&S | ESCI7 | US47140102 | 2023-10-27 | 2024-10-26 |
| Signal Generator | HP | 83630B | 3844A01028 | 2023-10-27 | 2024-10-26 |
| Test Receiver | R&S | ESPI-3 | 100180 | 2023-10-27 | 2024-10-26 |
| Amplifier | Agilent | 8449B | 4035A00116 | 2023-10-27 | 2024-10-26 |
| Amplifier | HP | 8447E | 2945A02770 | 2023-10-27 | 2024-10-26 |
| Signal Generator | IFR | 2023A | 202307/242 | 2023-10-27 | 2024-10-26 |
| Broadband Antenna | SCHAFFNER | 2774 | 2774 | 2023-10-27 | 2024-10-26 |
| Biconical and log | ELECTRO-METRI | EM-6917B-1 | 171 | 2023-10-27 | 2024-10-26 |
| periodic antennas | CS | EN1-091/B-1 | 1/1 | 2023-10-27 | 2024-10-20 |
| Horn Antenna | R&S | HF906 | 100253 | 2023-10-27 | 2024-10-26 |
| Horn Antenna | EM | EM-6961 | 6462 | 2023-10-27 | 2024-10-26 |
| LISN | R&S | ESH3-Z5 | 100196 | 2023-10-27 | 2024-10-26 |
| LISN | COM-POWER | LI-115 | 02027 | 2023-10-27 | 2024-10-26 |
| 3m Semi-Anechoic | Chengyu Electron | 9 (L)*6 (W)* | DCI 096 | 2023-10-27 | 2024-10-26 |
| Chamber | | 6 (H) | BSL086 | 2023-10-27 | 2024-10-26 |
| Horn Antenna | A-INFOMW | LB-180400KF | BSL088 | 2023-10-27 | 2024-10-26 |
| 20dB Attenuator | ICPROBING | IATS1 | BSL1003 | 2023-10-27 | 2024-10-26 |
| POWER DIVIDER | Mini-circuits | PD-2SF-0010 | N/A | 2023-10-27 | 2024-10-26 |
| Power Meter | DARE | RPR3006W | 15I00041SN | 2023-10-27 | 2024-10-26 |
| | | | O03 | 2023-10-27 | 2024-10-20 |
| Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2023-10-27 | 2024-10-26 |
| Antenna Tower | SKET | BK-4AT-BS | N/A | N/A | N/A |

1.7 Test Equipment List and Details

2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item | Result |
|-----------------------------|-----------------------------------|--------|
| § 2.1093 | RF Exposure | PASS |
| § 15.203; § 15.247(b)(4)(i) | Antenna Requirement | PASS |
| §15.205 | Restricted Band of Operation | PASS |
| § 15.207(a) | Conducted Emission | PASS |
| § 15.247(e) | Power Spectral Density | PASS |
| § 15.247(a)(2) | 6 dB Bandwidth | PASS |
| § 15.247(b)(3) | RF Output Power | PASS |
| § 15.209(a) | Radiated Emission | PASS |
| § 15.247(d) | Band Edge (Out of Band Emissions) | PASS |

Note: PASS: applicable, N/A: not applicable.

3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.

4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

This product has a Inverted F Antenna(-0.58dBi), fulfill the requirement of this section.

5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Procedure

According to the KDB 558074 D01 v05r02, the test method of power spectral density as below:

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to: 3 kHz \leq RBW \leq 100 kHz.

- d) Set the VBW \geq 3 \times RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 Environmental Conditions

| Temperature: | 26° C |
|--------------------|-----------|
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

5.4 Summary of Test Results/Plots

| Test Mode | Test Channel MHz | Power Spectral Density dBm/3kHz | Limit dBm/3kHz |
|-----------|---------------------|------------------------------------|-------------------|
| | 2402 | -15.44 | 8 |
| GFSK(BLE) | 2440 | -15.57 | 8 |
| | 2480 | -16.63 | 8 |

Please refer to the following test plots:

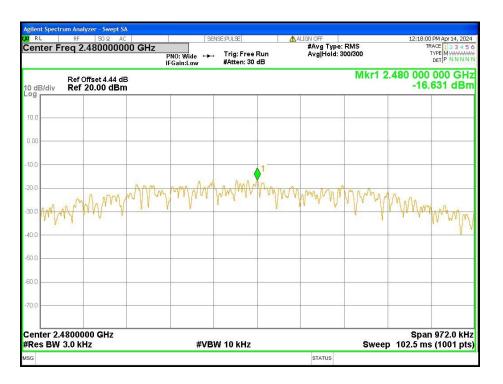
Low Channel



Middle Channel



High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 \times RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Environmental Conditions

| Temperature: | 25° C |
|--------------------|-----------|
| Relative Humidity: | 53% |
| ATM Pressure: | 1018 mbar |

6.4 Summary of Test Results/Plots

| Test Mode | Test Channel MHz | 6 dB Bandwidth kHz | Limit kHz |
|-----------|---------------------|-----------------------|--------------|
| | 2402 | 0.656 | ≥500 |
| GFSK(BLE) | 2440 | 0.647 | ≥500 |
| | 2480 | 0.648 | ≥500 |

Please refer to the following test plots:

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For BLE

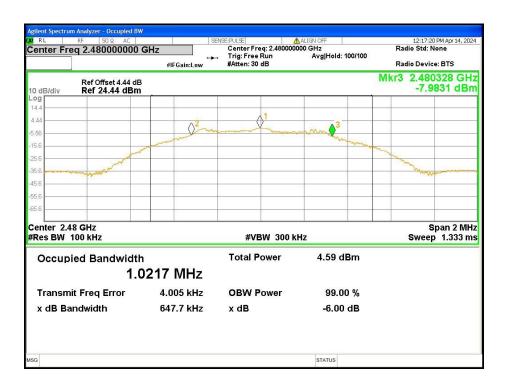
Low Channel:

| Agilent Spectrum Analyzer - Occupied BV XI RL RF 50 Ω AC | | | ALIGN OFF | 12:11:47 | PM Apr 14, 2024 |
|---|-------------|--|-------------------|--|--|
| Center Freq 2.402000000 | GHz | Center Freq: 2.402000 | 000 GHz | Radio Std: No | |
| | #IFGain:Low | Trig: Free Run #Atten: 30 dB | Avg Hold: 300/300 | Radio Device | : BTS |
| Ref Offset 4.45 dB 10 dB/div Ref 24.45 dBm | | | | Mkr3 2.402 -6.76 | 331 GHz 333 dBm |
| Log 14.5 | | | | | |
| 4.45 | | 1 | | | |
| -5.55 | | | 3 | | |
| -15.6 | | | | | |
| -25.6 | | | | 1 | |
| -35.6 | | | | Constant of the second se | and the second |
| -45.6 | | | | | |
| -55.6 | | | | | |
| -55.6 | | | | | |
| 0.00 | | | | | |
| Center 2.402 GHz #Res BW 100 kHz | | #VBW 300 k | Hz | | oan 2 MHz 1.333 ms |
| Occupied Bandwidth | ı | Total Power | 6.35 dBm | | |
| 5 | 0171 MHz | | | | |
| Transmit Freq Error | 2.911 kHz | OBW Power | 99.00 % | | |
| x dB Bandwidth | 655.7 kHz | x dB | -6.00 dB | | |
| | | | | | |
| MSG | | | STATUS | | |

Middle Channel:



High Channel:



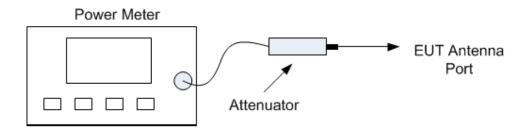
7. RF Output Power

7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

7.2 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.



7.3 Environmental Conditions

| Temperature: | 26° C |
|--------------------|-----------|
| Relative Humidity: | 57% |
| ATM Pressure: | 1011 mbar |

7.4 Summary of Test Results/Plots

| Test Mode | Frequency MHz | Reading dBm | Output Power mW | Limit mW |
|-----------|------------------|----------------|--------------------|-------------|
| | 2402 | 0.4 | 1.10 | 1000 |
| GFSK(BLE) | 2440 | 0.11 | 1.03 | 1000 |
| | 2480 | -1.01 | 0.79 | 1000 |

Note: the antenna gain of -0.58 dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.

8. Field Strength of Spurious Emissions

8.1 Standard Applicable

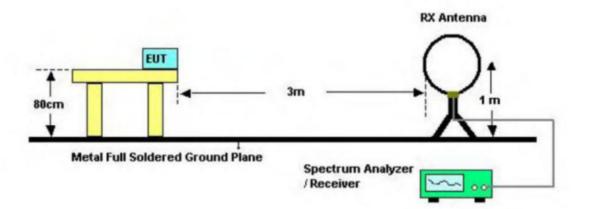
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

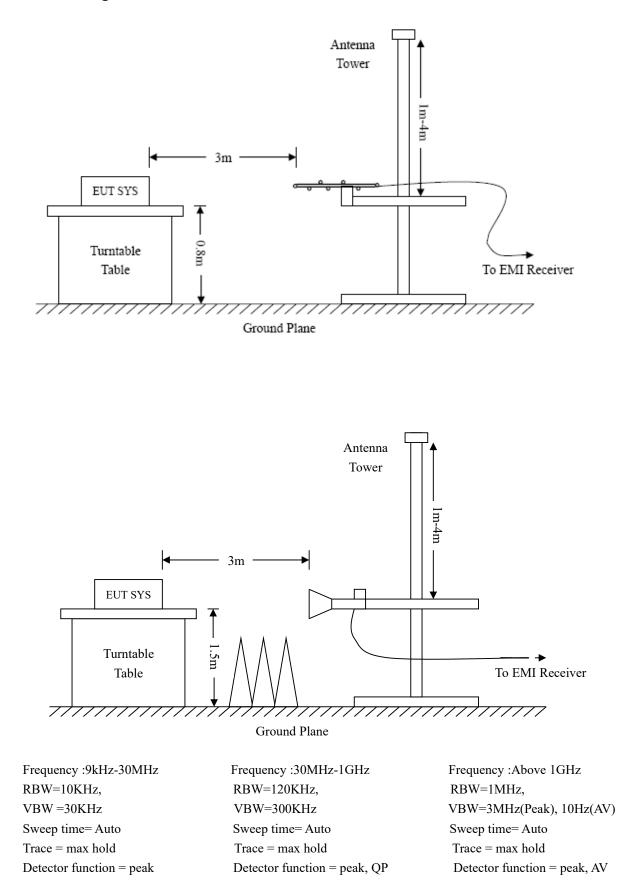
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.





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8.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss – Ampl. Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – FCC Part 15 Limit

8.4 Environmental Conditions

| Temperature: | 25 °C |
|--------------------|-----------|
| Relative Humidity: | 52% |
| ATM Pressure: | 1012 mbar |

8.5 Summary of Test Results/Plots

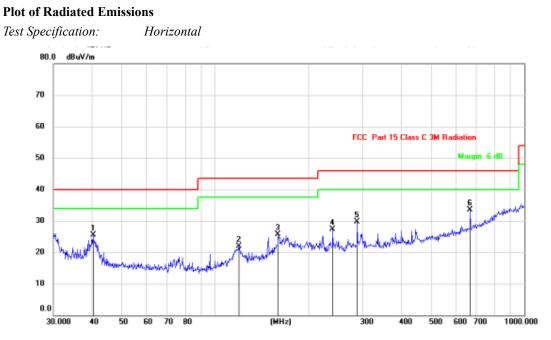
According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note:

1. Worst-case radiated emission below 1GHz is GFSK (CH High) mode.

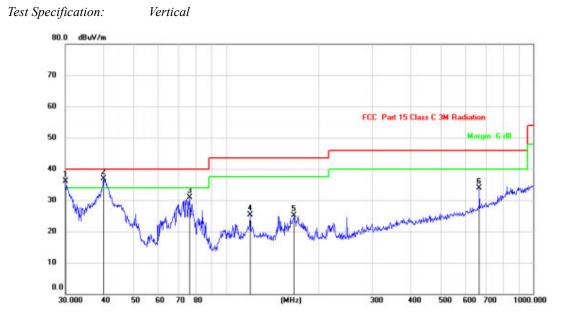
2. Worst-case radiated emission above 1GHz is GFSK (CH Low, Middle, High) mode.

The Worst Test Data Below 1GHz GFSK (CH High) mode:



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 40.2757 | 20.99 | 4.48 | 25.47 | 40.00 | -14.53 | QP |
| 2 | | 119.4361 | 17.92 | 4.07 | 21.99 | 43.50 | -21.51 | QP |
| 3 | | 159.7844 | 23.31 | 2.37 | 25.68 | 43.50 | -17.82 | QP |
| 4 | | 239.9874 | 23.07 | 4.17 | 27.24 | 46.00 | -18.76 | QP |
| 5 | | 287.9904 | 23.02 | 6.69 | 29.71 | 46.00 | -16.29 | QP |
| 6 | • | 668.1423 | 20.32 | 13.21 | 33.53 | 46.00 | -12.47 | QP |

*:Maximum data x:Over limit !:over margin



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBuV | dBuV/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | ! | 30.0000 | 31.23 | 4.86 | 36.09 | 40.00 | -3.91 | QP |
| 2 | • | 39.9942 | 32.42 | 4.56 | 36.98 | 40.00 | -3.02 | QP |
| 3 | | 76.2442 | 29.82 | 1.16 | 30.98 | 40.00 | -9.02 | QP |
| 4 | | 119.8556 | 21.26 | 4.13 | 25.39 | 43.50 | -18.11 | QP |
| 5 | | 166.6514 | 22.70 | 2.37 | 25.07 | 43.50 | -18.43 | QP |
| 6 | | 668.1423 | 20.61 | 13.21 | 33.82 | 46.00 | -12.18 | QP |

*:Maximum data x:Over limit !:over margin

The Worst Spurious Emissions Above 1GHz

| | Transmitting: | BLE | mode: |
|--|---------------|-----|-------|
|--|---------------|-----|-------|

| ē | |
|---------------|--------|
| Test channel: | Lowest |
| | |

Peak value:

| Frequency (MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------|-------------------|------------------------|--------------------|--------------|
| 2402 | 89.68 | - | - | Vertical |
| 4804 | 42.35 | 74.00 | -31.65 | Vertical |
| 7206 | 37.54 | 74.00 | -36.46 | Vertical |
| 9608 | 32.04 | 74.00 | -41.96 | Vertical |
| 2402 | 91.28 | - | - | Horizontal |
| 4804 | 41.61 | 74.00 | -32.39 | Horizontal |
| 7206 | 37.68 | 74.00 | -36.32 | Horizontal |
| 9608 | 32.06 | 74.00 | -41.94 | Horizontal |

Average value:

| Frequency (MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------|-------------------|------------------------|--------------------|--------------|
| 2402 | 88.34 | - | - | Vertical |
| 4804 | 39.86 | 54.00 | -14.14 | Vertical |
| 7206 | 35.96 | 54.00 | -18.04 | Vertical |
| 9608 | 31.05 | 54.00 | -22.95 | Vertical |
| 2402 | 87.95 | - | - | Horizontal |
| 4804 | 36.07 | 54.00 | -17.93 | Horizontal |
| 7206 | 34.08 | 54.00 | -19.92 | Horizontal |
| 9608 | 31.27 | 54.00 | -22.73 | Horizontal |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. *"*", means this data is the too weak instrument of signal is unable to test.*
- 3. The emission from 9 kHz to 30MHz was pre tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.
- 4. In frequency ranges 18 ~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

| Test channel: | Middle |
|---------------|--------|
| | |

Peak value:

| Frequency (MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------|-------------------|------------------------|--------------------|--------------|
| 2442 | 91.57 | - | - | Vertical |
| 4882 | 42.68 | 74.00 | -31.32 | Vertical |
| 7323 | 37.24 | 74.00 | -36.76 | Vertical |
| 9764 | 32.67 | 74.00 | -41.33 | Vertical |
| 2442 | 89.67 | - | - | Horizontal |
| 4882 | 37.05 | 74.00 | -36.95 | Horizontal |
| 7323 | 35.21 | 74.00 | -38.79 | Horizontal |
| 9764 | 31.57 | 74.00 | -42.43 | Horizontal |

Average value:

| Frequency (MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------|-------------------|------------------------|--------------------|--------------|
| 2442 | 88.62 | - | - | Vertical |
| 4882 | 38.67 | 54.00 | -15.33 | Vertical |
| 7323 | 35.67 | 54.00 | -18.33 | Vertical |
| 9764 | 31.52 | 54.00 | -22.48 | Vertical |
| 2442 | 89.31 | - | - | Horizontal |
| 4882 | 36.54 | 54.00 | -17.46 | Horizontal |
| 7323 | 34.20 | 54.00 | -19.80 | Horizontal |
| 9764 | 31.35 | 54.00 | -22.65 | Horizontal |

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. *"*", means this data is the too weak instrument of signal is unable to test.*

- 3. The emission from 9 kHz to 30MHz was pre tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.
- 4. In frequency ranges 18 ~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

| Test shappel: | Highost |
|---------------|---------|
| lest channel: | nignesi |
| | |

Peak value:

| Frequency (MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------|-------------------|------------------------|--------------------|--------------|
| 2480 | 88.67 | - | - | Vertical |
| 4960 | 42.08 | 74.00 | -31.92 | Vertical |
| 7440 | 37.50 | 74.00 | -36.50 | Vertical |
| 9920 | 31.67 | 74.00 | -42.33 | Vertical |
| 2480 | 88.60 | - | - | Horizontal |
| 4960 | 41.35 | 74.00 | -32.65 | Horizontal |
| 7440 | 36.05 | 74.00 | -37.95 | Horizontal |
| 9920 | 31.57 | 74.00 | -42.43 | Horizontal |

Average value:

| Frequency (MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------|-------------------|------------------------|--------------------|--------------|
| 2480 | 87.68 | - | - | Vertical |
| 4960 | 39.51 | 54.00 | -14.49 | Vertical |
| 7440 | 35.40 | 54.00 | -18.6 | Vertical |
| 9920 | 31.51 | 54.00 | -22.49 | Vertical |
| 2480 | 86.81 | - | - | Horizontal |
| 4960 | 39.62 | 54.00 | -14.38 | Horizontal |
| 7440 | 35.21 | 54.00 | -18.79 | Horizontal |
| 9920 | 31.45 | 54.00 | -22.55 | Horizontal |

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. "*", means this data is the too weak instrument of signal is unable to test.

3. The emission from 9 kHz to 30MHz was pre tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

4. In frequency ranges 18 ~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

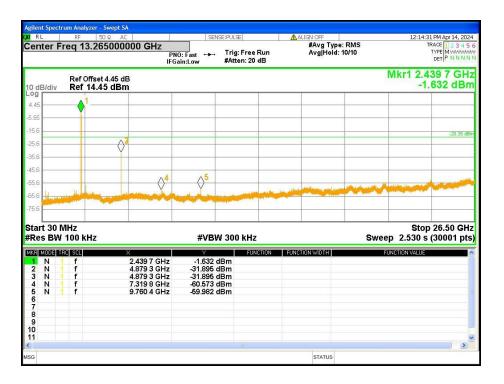
BSL Testing Co.,LTD.

Spurious Emission(Conducted) For BLE

Low channel:

| RL | RF | 50 Q AC | | SENS | E:PULSE | ALIGN OFF | | | 5 PM Apr 14, 202 |
|------------------|------------------|-------------------------|---------------------------------------|--------------------------|---------------------------------|-----------------------|--|-----------------------|--|
| enter F | req 13. | 26500000 | PNO | l:Fast ↔ in:Low | Trig: Free Run #Atten: 20 dB | #Avg Typ Avg Hold: | | т | RACE 12345 TYPE M MMMM DET P N N N N |
| dB/div | | set 4.45 dB I.45 dBm | | | | | | Mkr1 2.4 -0. | 01 7 GH 199 dBr |
| 45 | A ¹ | | | | | | | | |
| 55 | | | | | | | | | |
| .6 | | | | | | | | | |
| | | \ <mark>3</mark> | | | | | | | -20.16 d |
| .6 | | Y | | | | | | | |
| 16 | | | | | | | | | |
| .6 | | | A4 | 5 | | | | | |
| 6 | 10 Martin | 1 | Y I | Y | and the second second second | and the second second | and a second | and the second second | Contraction of the |
| 5.6 | | | and the particular free of the second | | | | | | |
| | | | | | | | | | |
| art 30 Res BW | MHz / 100 kH: | z | | #VBW | 300 kHz | | Swe | Stop ep 2.530 s | 26.50 GH (30001 pt |
| R MODE 1 | IRC SCL | × 2 | 401 7 GHz | -0.199 dl | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| 2 N 3 N | i f i f | 4. | 803 4 GHz 803 4 GHz | -29.257 dl -29.257 dl | Зm | | | | |
| I N | 1 f | 7. | 206 0 GHz | -60.479 dl | Зm | | | | |
| 5 N | <u>1</u> f | 9. | 607 7 GHz | -60.548 dl | 3m | | | | |
| 3 | | | | | | | | | |
| | | | | | | | | | |
|) | | | | | | | | | |
| | | | | | | | | | |

Middle channel:



High channel:

| | RF | 50 Q AC | | SENS | E:PULSE | ΔA | LIGN OFF | | | 15 PM Apr 14, 20 |
|---------------------|--|--|----------------------|--|---------------------------------|-------------|-----------------------------|-----|--------------------|--------------------------|
| enter F | req 13.2 | 65000000 | PNO | :Fast ↔→ in:Low | Trig: Free Run #Atten: 20 dB | | #Avg Type Avg Hold: | | | TYPE MWWW DET P N N N |
|) dB/div | | et 4.44 dB 44 dBm | | | | | | | Mkr1 2.4 -2 | 80 2 GH 850 dB |
| og | _1_ | | | | | | | | 2 | |
| .56 | | | | | | | | | | |
| 5.6 | | | | 1 | | | | | | -21.45 |
| 6.6 | | \wedge | | | | | | | | 541.05 |
| 5.6 | | Y | | | | | | | | |
| 5.6 | | | - 1 | E | | | | | | |
| 5.6 | | | Q ⁴ | 5 | | مراجع الجري | Alle and Alle and | - | - | A second |
| 5.6 | and the state of t | Contraction of the local division of the loc | | and the second s | | | a service and a service and | | | |
| 5.6 | | | | | | | | | | |
| tart 30 I Res BW | MHz 100 kHz | 1 | | #VBW | 300 kHz | | | Swe | Stop ep 2.530 s | 26.50 G (30001 p |
| R MODE T | RC SCL | × 24 | 80 2 GHz | 2.850 d | FUNCTION | FUNC | TION WIDTH | | FUNCTION VALUE | |
| 2 N 3 N | f | | 59 6 GHz 59 6 GHz | -33.000 d | | | | | | |
| 4 N | ţ | 7.4 | 40 7 GHz 20 1 GHz | -60.736 d | Bm | | | | | |
| 3 | , r | 9.9 | 20 I GHZ | -01.470 d | SIII | | | | | |
| 7 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| | | | | | | | | | | |

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Procedure

According to the KDB 558074 D01 v05r02, the Marker-delta method as follows:

for Antenna-port conducted measurement.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1). Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2). Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.

3). Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=1/B for AV detector.

4). Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

5). Repeat above procedures until all measured frequencies were complete.

6). Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

7). Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)

8). Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies \leq 30 MHz,

4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).

9). For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).

10). Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$E = EIRP - 20\log D + 104.77 = EIRP + 95.23$

Where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

11). Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

12). Compare the resultant electric field strength level to the applicable regulatory limit.

13). Perform radiated spurious emission test duress until all measured frequencies were complete.

9.3 Environmental Conditions

| Temperature: | 23°C |
|--------------------|-----------|
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

9.4 Summary of Test Results/Plots

Bandedge (Radiated)

GFSK(BLE)

| Channel | Freq.(MHz) | Power(dBm) | Gain(dBi) | Level(dBuV) | Limit(dBuV) | Margin(dB) | Detector |
|-------------------|------------|------------|-----------|-------------|-------------|------------|----------|
| LOW (2402MHz) | 2400.0 | -46.28 | 2.00 | 50.95 | 74.00 | -23.05 | Peak |
| шен | 2483.5 | -55.40 | 2.00 | 41.83 | 74.00 | -32.17 | Peak |
| HIGH (2480MHz) | 2500.0 | -57.07 | 2.00 | 40.16 | 74.00 | -33.84 | Peak |
| | 2484.5 | -52.42 | 2.00 | 44.81 | 74.00 | -29.19 | Peak |

Remark: 1. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

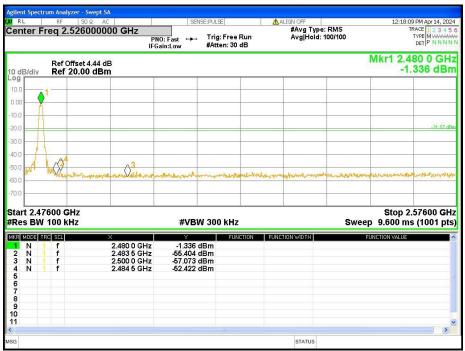
2. Maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater

Bandedge (Conducted)

Lowest

| RL | RF | 50 Q AC | | SEN | ISE:PULSE | /AA | LIGN OFF | | 12:12:22 | PM Apr 14, 200 |
|-------------|-----------------|---------------------------------------|----------------------------|--------------|--------------------------------|-----------------------------|-----------------------|---------------------|------------------------|--|
| enter | Freq 2 | 2.35600000 | P | NO: Fast 🔸 | Trig: Free Ru #Atten: 30 dE | | #Avg Typ Avg Hold: | e: RMS 1000/1000 | | ACE 1 2 3 4 5 TYPE M WWW DET P N N N |
| dB/di | | Offset 4.45 dE f 20.00 dB m | | | | | | | Mkr1 2.40 0.1 | 02 0 GH 138 dBi |
| | | | | | | | | | | |
| 00 | | | | | | | | | | |
| .0 | | | | | | | | | | |
| | | | | | | | | | | -20.06 d |
| 0 | | | | | | | | | | |
| 0 | | | | | | | | | | |
| 0 | | | | | | | | | | 91 |
| 0 VP INY | man | mohnewaller | watermanula | www.uttheway | monormalippe | aparter alle alle alle alle | mayna | man manufamar | walnungin mage m | N. Mar |
| | | | | | | | | | | |
| .0 | | 2 | | | | | | | 0 | 0 |
| | .30600 W 100 | | | #VB\ | N 300 kHz | | | Swee | Stop 2.4 p 9.600 ms | 40600 GH (1001 pt |
| | E TRC SCL | | × | Y | FUNCTI | ON FUNC | TION WIDTH | - | UNCTION VALUE | |
| N | 1 f | | 2.402 0 GHz 2.400 0 GHz | 0.138 | | | | | | |
| | 1 f | | 2.400 0 GHz 2.400 0 GHz | -46.281 | dBm | | | | | |
| N | | | 2.400 0 GHZ | -46.281 | авт | | | | | |
| NNN | 1 f | | | | | | | | | |
| N | 1 f | | | | | | | | | |
| NNN | 1 f | | | | | | | | | |
| NNN | <u>1</u> f | | | | | | | | | |
| N N N | 1 f | | | | | | | | | |

High Channel:



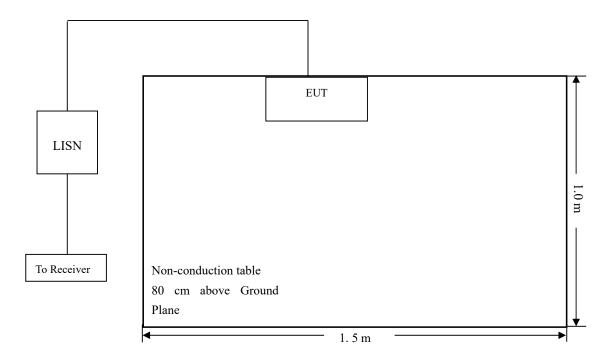
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

| Temperature: | 25 °C | | | | |
|--------------------|-----------|--|--|--|--|
| Relative Humidity: | 52% | | | | |
| ATM Pressure: | 1012 mbar | | | | |

10.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

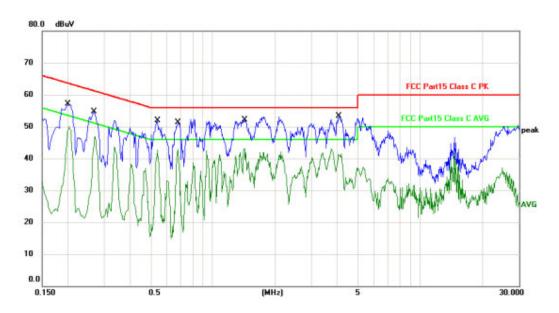
| Start Frequency | 150 kHz |
|------------------------------|---------|
| Stop Frequency | 30 MHz |
| Sweep Speed | Auto |
| IF Bandwidth | 10 kHz |
| Quasi-Peak Adapter Bandwidth | 9 kHz |
| Quasi-Peak Adapter Mode | Normal |
| | |

10.5 Summary of Test Results/Plots

According to the data in section 10.6, the EUT complied with the FCC Part 15.207 Conducted margin for this device

10.6 Conducted Emissions Test Data

Test Specification:

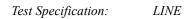


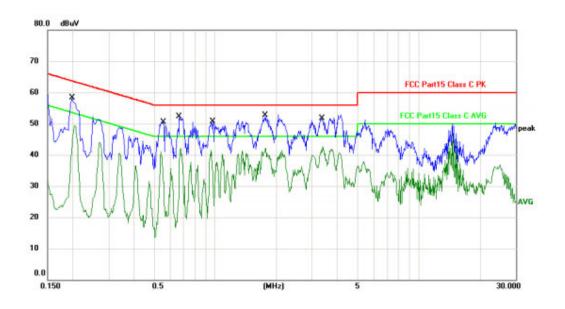
Plot of Conducted Emissions Test Data

Neutral

Reading Correct Measure-No. Mk. Freq. Limit Over Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 57.04 0.1995 0.00 57.04 63.63 -6.59 QP 1 2 0.1995 50.08 0.00 50.08 53.63 -3.55 AVG QP 3 0.2660 54.64 0.00 54.64 61.24 -6.60 0.2660 46.79 0.00 46.79 51.24 -4.45 AVG 4 QP 0.5420 51.90 0.00 51.90 56.00 -4.10 5 6 0.5420 42.80 0.00 42.80 46.00 -3.20 AVG 0.6820 51.26 QP 7 0.00 51.26 56.00 -4.74 8 0.6820 38.83 0.00 38.83 46.00 -7.17 AVG QP 9 1.4218 52.04 0.00 52.04 56.00 -3.96 10 1.4218 42.97 0.00 42.97 46.00 -3.03 AVG 11 4.0537 52.88 0.00 52.88 56.00 -3.12 QP 12 4.0537 42.09 0.00 42.09 46.00 -3.91 AVG

*: Maximum data x: Over limit !: over margin





| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|-------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1980 | 58.23 | 0.00 | 58.23 | 63.69 | -5.46 | QP | |
| 2 | | 0.1980 | 49.13 | 0.00 | 49.13 | 53.69 | -4.56 | AVG | |
| 3 | | 0.5580 | 50.48 | 0.00 | 50.48 | 56.00 | -5.52 | QP | |
| 4 | | 0.5580 | 39.36 | 0.00 | 39.36 | 46.00 | -6.64 | AVG | |
| 5 | | 0.6660 | 52.30 | 0.00 | 52.30 | 56.00 | -3.70 | QP | |
| 6 | | 0.6660 | 42.01 | 0.00 | 42.01 | 46.00 | -3.99 | AVG | |
| 7 | | 0.9738 | 50.75 | 0.00 | 50.75 | 56.00 | -5.25 | QP | |
| 8 | | 0.9738 | 40.95 | 0.00 | 40.95 | 46.00 | -5.05 | AVG | |
| 9 | • | 1.7700 | 52.74 | 0.00 | 52.74 | 56.00 | -3.26 | QP | |
| 10 | | 1.7700 | 39.26 | 0.00 | 39.26 | 46.00 | -6.74 | AVG | |
| 11 | | 3.3580 | 51.77 | 0.00 | 51.77 | 56.00 | -4.23 | QP | |
| 12 | | 3.3580 | 42.65 | 0.00 | 42.65 | 46.00 | -3.35 | AVG | |

*:Maximum data x:Over limit !:over margin

***** END OF REPORT *****