

Report No.: DDT-R18012408-1E5

■Issued Date: Mar. 15, 2018

FCC AND IC CERTIFICATION TEST REPORT

FOR

| Applicant | •• | Harman International Industries, Incorporated | |
|----------------------|----|--|--|
| Address | • | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES | |
| Equipment under Test | •• | Bluetooth headset | |
| Model No. | | Everest 710GA | |
| Trade Mark | | JBL TESTING | |
| FCC ID | •• | APIJBLV710GA | |
| IC | • | 6132A-JBLV710GA | |
| Manufacturer | • | Harman International Industries, Incorporated | |
| Address | • | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES | |

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-89201699, E-mail: ddt@dgddt.com, http://www.dgddt.com



TABLE OF CONTENTS

| | Test report declares | 4 |
|------|---|----|
| 1. | Summary of test results | 6 |
| 2. | General test information | 7 |
| 2.1. | Description of EUT | 7 |
| 2.2. | Accessories of EUT | 7 |
| 2.3. | Assistant equipment used for test | 7 |
| 2.4. | Block diagram of EUT configuration for test | 7 |
| 2.5. | Test environment conditions | 8 |
| 2.6. | Deviations of test standard | 8 |
| 2.7. | Test laboratory | 8 |
| 2.8. | Measurement uncertainty | 9 |
| 3. | Equipment used during test | 10 |
| 4. | 6dB Bandwidth and 99% Bandwidth | 11 |
| 4.1. | Block diagram of test setup | 11 |
| 4.2. | Limits | 11 |
| 4.3. | Test Procedure | 11 |
| 4.4. | Test Result | 11 |
| 4.5. | Original test data | 11 |
| 5. | Maximum Peak Output Power | 13 |
| 5.1. | Block diagram of test setup | 13 |
| 5.2. | Limits | 13 |
| 5.3. | Test Procedure | 13 |
| 5.4. | Test Result | 13 |
| 5.5. | Original test data | 14 |
| 6. | Power Spectral Density | 15 |
| 6.1. | Block diagram of test setup | 15 |
| 6.2. | Limits | 15 |
| 6.3. | Test Procedure | 15 |
| 6.4. | Test Result | 15 |
| 6.5. | Original test data | 16 |
| 7. | Band Edge Compliance (conducted method) | 17 |
| 7.1. | Block diagram of test setup | 17 |
| 7.2. | Limits | 17 |
| 7.3. | Test Procedure | 17 |
| 7.4. | Test Result | 17 |
| 7.5. | Original test data | 18 |

| 8. | Radiated emission | 18 |
|-------|---|----|
| 8.1. | Block diagram of test setup | 18 |
| 8.2. | Limit | 20 |
| 8.3. | Test Procedure | 21 |
| 8.4. | Test result | 23 |
| 9. | RF Conducted Spurious Emissions | 26 |
| 9.1. | Block diagram of test setup | 26 |
| 9.2. | Limits | 27 |
| 9.3. | Test Procedure | 27 |
| 9.4. | Test Result | 27 |
| 9.5. | Original test data | 27 |
| 10. | Emissions in restricted frequency bands | 31 |
| 10.1. | Block diagram of test setup | 31 |
| 10.2. | Limit | 31 |
| 10.3. | Test Procedure | 31 |
| 10.4. | Test result | 31 |
| 11. | Power Line Conducted Emission | 36 |
| 11.1. | Block diagram of test setup | 36 |
| 11.2. | Power Line Conducted Emission Limits | 36 |
| 11.3. | Test Procedure | 36 |
| 11.4. | Test Result | 37 |
| 12. | Antenna Requirements | 40 |
| 12.1. | Limit | 40 |
| 12 2 | Result | 40 |

TEST REPORT DECLARE

| Applicant | : | Harman International Industries, Incorporated | |
|----------------------|---|--|--|
| Address | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES | |
| Equipment under Test | : | uetooth headset | |
| Model No. | : | Everest 710GA | |
| Trade mark | : | BL . | |
| Manufacturer | : | Harman International Industries, Incorporated | |
| Address | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES | |

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 February 2017.

Test procedure used:

ANSI C63.10:2013, RSS-Gen Issue 4, Nov. 2014

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&IC standards.

| Report No: | DDT-R18012408-1E5 | | |
|------------------|-------------------|---------------|-----------------------------|
| Date of Receipt: | Feb. 11, 2018 | Date of Test: | Feb. 11, 2018 ~Mar.15, 2018 |

Prepared By:

Kevin Feng/Eliic Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

| Rev. | Revisions | Issue Date | Revised By |
|------|---------------|--------------|------------|
| | Initial issue | Mar.15, 2018 | |
| | | | |

1. Summary of test results

| Description of Test Item | Standard | Results | |
|--|---------------------|---------|--|
| | FCC Part 15: 15.247 | | |
| 6dB Bandwidth and 99% Bandwidth | ANSI C63.10:2013 | PASS | |
| | RSS-247 Issue 2 | | |
| | FCC Part 15: 15.247 | | |
| Peak Output Power | ANSI C63.10:2013 | PASS | |
| | RSS-247 Issue 2 | | |
| | FCC Part 15:15.247 | | |
| Power Spectral Density | ANSI C63.10:2013 | PASS | |
| | RSS-247 Issue 2 | | |
| | FCC Part 15: 15.209 | | |
| Band Edge Compliance (conducted method) | FCC Part 15: 15.247 | | |
| sand Edge Compilation (conducted method) | ANSI C63.10: 2013 | PASS | |
| | RSS-247 Issue 2 | | |
| | RSS-Gen Issue 4 | | |
| | FCC Part 15: 15.247 | | |
| Dediction Emission | ANSI C63.10:2013 | PASS | |
| Radiation Emission | RSS-247 Issue 2 | | |
| | RSS-Gen Issue 4 | | |
| | FCC Part 15: 15.209 | | |
| | FCC Part 15: 15.247 | | |
| RF Conducted Spurious Emissions | ANSI C63.10: 2013 | PASS | |
| · | RSS-247 Issue 2 | | |
| | RSS-Gen Issue 4 | | |
| | FCC Part 15: 15.209 | | |
| Emission in restricted from the said | FCC Part 15: 15.247 | | |
| Emission in restricted frequency bands | ANSI C63.10: 2013 | PASS | |
| | RSS-247 Issue 2 | | |
| | RSS-Gen Issue 4 | | |
| | FCC Part 15: 15.207 | | |
| Power Line Conducted Emission | ANSI C63.10: 2013 | PASS | |
| . Sile. Ellio Solidadod Ellilololi | RSS-Gen Issue 4 | | |
| | FCC Part 15: 15.203 | | |
| Antenna requirement | RSS-Gen Issue 4 | PASS | |

Report No.: DDT-R18012408-1E5

2. General test information

2.1. Description of EUT

| EUT* Name | Bluetooth headset | |
|--------------------------|--|--|
| Model Number | : Everest 710GA | |
| EUT function description | : Please reference user manual of this device | |
| Power supply | DC 5V from external AC Adapter DC 3.7V 610mAh Polymer Li-ion Battery | |
| Radio Specification | Bluetooth V4.2 | |
| Operation frequency | : 2402MHz -2480MHz | |
| Modulation | GFSK, | |
| Data rate | 1Mbps | |
| Antenna Type | : Integrated antenna, maximum PK gain: 2.0dBi | |
| Sample Type | Series production | |

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

| Description of Accessories | Manufacturer | Model number | Serial No. | Other |
|----------------------------|--------------|--------------|------------|-------|
| N/A | N/A | N/A | N/A | N/A |

2.3. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | EMC Compliance | SN |
|---------------------|--|---------------|----------------|--|
| Notebook | DELL | Latitude D610 | FCC DOC | 00045-534-136-300 |
| AC Adapter | Group Intellect Power Technology Limited | F5V-2.3C-1U | 1 | Input: AC 100-240V -50/60Hz, 0.5A; Output: DC 5V, 2.3A |

2.4. Block diagram of EUT configuration for test



Test software: BlueSuite 2.6.4.EXE

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as blow table:

| Tested mode, channel, information | | | | |
|-----------------------------------|---------|--------------------|--|--|
| Mode | Channel | Frequency (MHz) | | |
| | CH0 | 2402 | | |
| GFSK | CH19 | 2440 | | |
| | CH39 | 2480 | | |

Report No.: DDT-R18012408-1E5

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

| Temperature range: | 21-25℃ |
|--------------------|-----------|
| Humidity range: | 40-75% |
| Pressure range: | 86-106kPa |

2.6. Deviations of test standard

No Deviation.

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel: +86-0769-89201699, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

Designation Number: CN1182; Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

| Test Item | Uncertainty | |
|---|--|--|
| Bandwidth | 1.1% | |
| Peak Output Power(Conducted)(Spectrum | 0.86dB (10 MHz ≤ f < 3.6GHz); | |
| analyzer) | 1.38dB (3.6GHz ≤ f < 8GHz) | |
| Peak Output Power(Conducted)(Power Sensor) | 0.74dB | |
| Power Spectral Density | 0.74dB (10 MHz ≤ f < 3.6GHz); | |
| Power Spectral Density | 1.38dB (3.6GHz ≤ f < 8GHz) | |
| Frequencies Stability | 6.7 x 10 ⁻⁸ (Antenna couple method) | |
| Trequencies Stability | 5.5 x 10 ⁻⁸ (Conducted method) | |
| | 0.86dB (10 MHz ≤ f < 3.6GHz); | |
| Conducted spurious emissions | 1.40dB (3.6GHz ≤ f < 8GHz) | |
| | 1.66dB (8GHz ≤ f < 22GHz) | |
| Uncertainty for radio frequency (RBW<20kHz) | 3×10 ⁻⁸ | |
| Temperature | 0.4℃ | |
| Humidity | 2% | |
| Uncertainty for Radiation Emission test | 4.70 dB (Antenna Polarize: V) | |
| (30MHz-1GHz) | 4.84 dB (Antenna Polarize: H) | |
| | 4.10dB (1-6GHz) | |
| Uncertainty for Radiation Emission test | 4.40dB (6GHz-18GHz) | |
| (1GHz-40GHz) | 3.54dB (18GHz-26GHz) | |
| | 4.30dB (26GHz-40GHz) | |
| Uncertainty for Power line conduction emission test | 3.32dB (150kHz-30MHz) | |
| Note: This uncertainty represents an expanded uncer | tainty expressed at approximately the | |

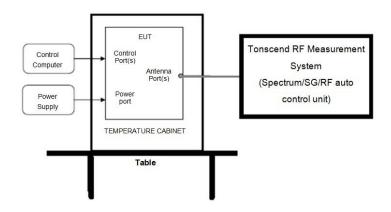
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment used during test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|-------------------------------------|----------------|-----------------------|-----------------------|---------------|---------------|
| RF Connected Test (| Tonscend RF N | | System) | | |
| Spectrum analyzer | R&S | FSU26 | 200071 | Oct. 23, 2017 | 1Year |
| Spectrum analyzer | R&S | FSU26 | 201124 | Dec. 11, 2017 | 1Year |
| Wideband Radio Communication tester | R&S | CMW500 | 117491 | Jun. 16, 2017 | |
| Vector Signal Generator | Agilent | E8267D | US49060192 | Oct. 23, 2017 | 1Year |
| Vector Signal Generator | Agilent | N5182A | MY48180737 | Jun.16, 2017 | 1Year |
| Power Sensor | Agilent | U2021XA | MY55150010 | Oct. 21, 2017 | 1Year |
| Power Sensor | Agilent | U2021XA | MY55150011 | - | 1Year |
| DC Power Source | MATRIS | MPS-3005L- | D813058W | Aug. 18, 2017 | |
| Attenuator | Mini-Circuits | BW-S10W2 | 101109 | Aug. 18, 2017 | 1Year |
| RF Cable | Micable | | 100309 | Oct. 21, 2017 | |
| Temp&Humi Programmable | ZHIXIANG | ZXGDJS-15 0L | ZX170110-A | Oct. 21, 2017 | |
| Test Software | JS Tonscend | JS1120-3 | Ver.2.7 | N/A | N/A |
| Radiated Emission T | est Chamber 1 | ı | | | |
| EMI Test Receiver | R&S | ESU8 | 100316 | Oct. 21, 2017 | 1 Year |
| Spectrum analyzer | Agilent | E4447A | MY50180031 | Jun. 16, 2017 | |
| Trilog Broadband Antenna | Schwarzbeck | VULB9163 | 9163-462 | Nov. 09, 2017 | |
| Active Loop antenna | Schwarzbeck | FMZB-1519 | 1519-038 | Oct. 17, 2017 | 1 Year |
| Double Ridged Horn Antenna | R&S | HF907 | 100276 | Oct. 17, 2017 | |
| Broad Band Horn Antenna | Schwarzbeck | BBHA 9170 | 790 | Nov. 09,2017 | 1 Year |
| Pre-amplifier | A.H. | PAM-0118 | 360 | Oct. 21, 2017 | 1 Year |
| Pre-amplifier | TERA-MW | TRLA-0040 G35 | 101303 | Oct. 21, 2017 | 1 Year |
| RF Cable | HUBSER | CP-X2+ CP-X1 | W11.03+ W12.02 | Oct. 21, 2017 | 1Year |
| RF Cable | N/A | SMAJ-SMA J-1M+ 11M | 17070133+17 070131 | Nov. 08, 2017 | 1 Year |
| MI Cable | HUBSER | C10-01-01-1 M | 1091629 | Oct. 21, 2017 | 1 Year |
| Test software | Audix | E3 | V 6.11111b | N/A | N/A |
| Power Line Conduct | ed Emissions 1 | est | | | |
| Test Receiver | R&S | ESU8 | 100316 | Oct. 21, 2017 | 1 Year |
| LISN 1 | R&S | ENV216 | 101109 | Oct. 21 2017 | 1 Year |
| LISN 2 | R&S | ESH2-Z5 | 100309 | Oct. 21 2017 | 1 Year |
| Pulse Limiter | R&S | ESH3-Z2 | 101242 | Oct. 21 2017 | 1 Year |
| CE Cable 1 | HUBSER | N/A | W10.01 | Oct. 21 2017 | 1 Year |
| Test software | Audix | E3 | V 6.11111b | N/A | N/A |

4. 6dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz

4.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows:

RBW: 100kHz
VBW: 300kHz
Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

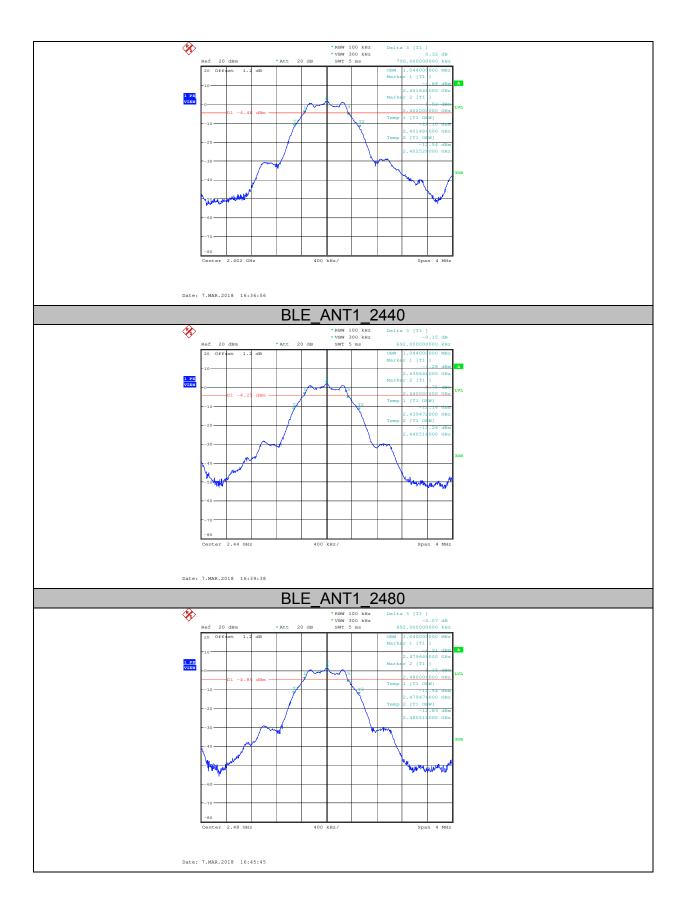
(3) Allow the trace to stabilize, measure the 6dB and 99% bandwidth of signal.

4.4. Test Result

| Mode | Channel | 6dB bandwidth | 99% bandwidth | 6 dB width Limit | Conclusion |
|------|---------|---------------|---------------|------------------|------------|
| | | Result (MHz) | Result (MHz) | (MHz) | |
| | CH0 | 0.700 | 1.044 | >0.5 | PASS |
| GFSK | CH19 | 0.692 | 1.044 | >0.5 | PASS |
| | CH39 | 0.692 | 1.040 | >0.5 | PASS |

4.5. Original test data

| BL | | ANT1 | 2402 |
|----|---|------|---------|
| ĸı | _ | | 1 /4(1/ |
| | | | |



5. Maximum Peak Output Power

5.1. Block diagram of test setup

Same with 4.1

5.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Report No.: DDT-R18012408-1E5

5.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows:

RBW: 3MHz VBW: 10MHz

Span >1.5x 6dB bandwidth

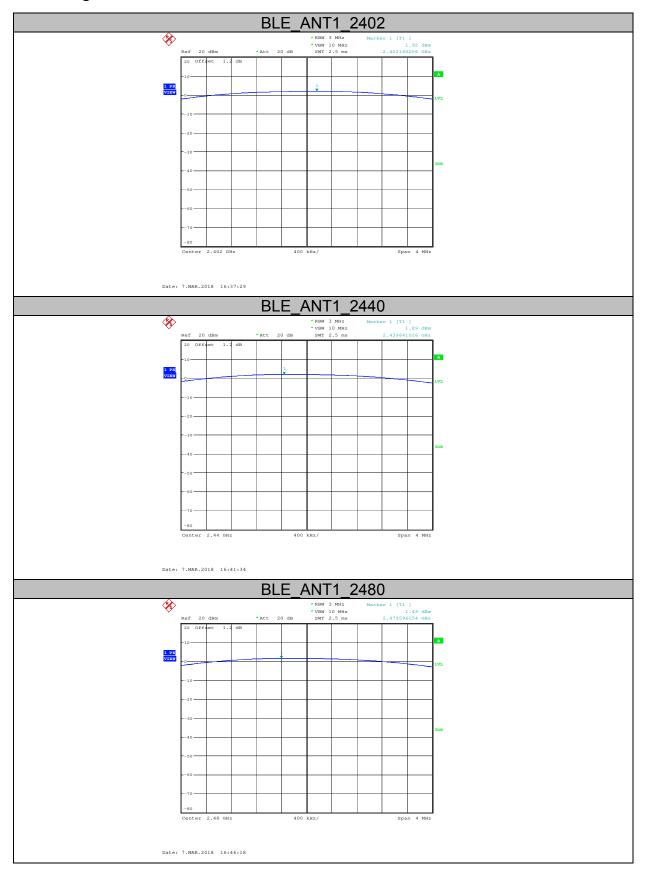
Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

(3) Allow the trace to stabilize, Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges measure out the PK output power.

5.4. Test Result

| Mode | Freq (MHz) | Peak Output Power (dBm) | Limit (dBm) | Conclusion |
|------|------------|----------------------------|-------------|------------|
| | 2402 | 1.92 | 30 | PASS |
| GFSK | 2440 | 1.89 | 30 | PASS |
| | 2480 | 1.49 | 30 | PASS |

5.5. Original test data



6. Power Spectral Density

6.1. Block diagram of test setup

Same with 4.1

6.2. Limits

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

Report No.: DDT-R18012408-1E5

6.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows:

Center frequency DTS Channel center frequency

RBW: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

VBW: ≥ 3RBW

Span 1.5times the DTS bandwidth

Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

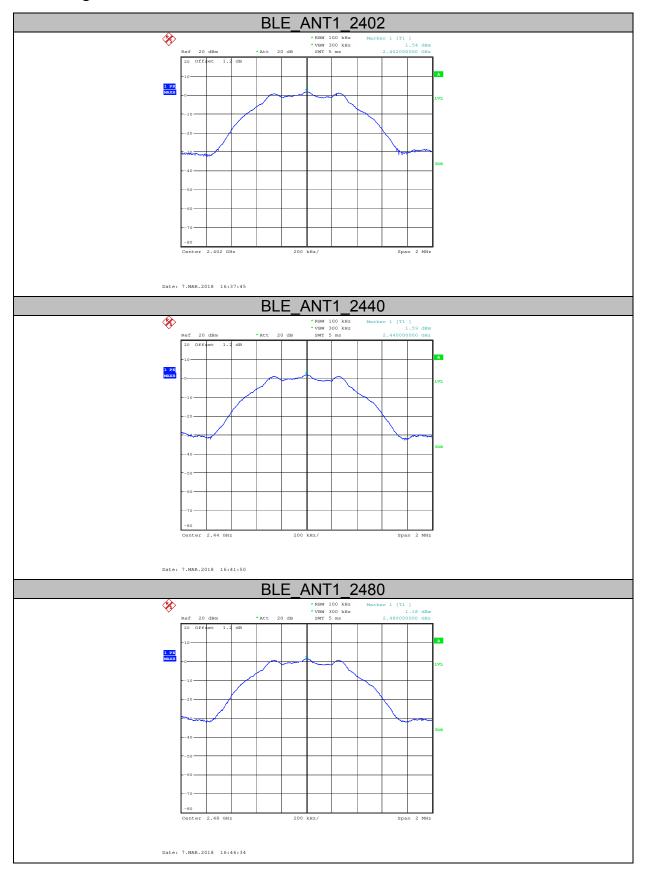
(3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.

(4) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.4. Test Result

| EUT Set Mode | Channel | Result (dBm/100kHz) | Result (dBm/3kHz) | | |
|-------------------|---------|---------------------|-------------------|--|--|
| | CH0 | | -13.69 | | |
| GFSK | CH19 | 1.59 | -13.64 | | |
| | CH39 | 1.18 | -14.05 | | |
| Limit: <8dBm/3kHz | | Conclusion: PASS | | | |

6.5. Original test data



7. Band Edge Compliance (conducted method)

7.1. Block diagram of test setup

Same with 4.1

7.2. Limits

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

Report No.: DDT-R18012408-1E5

7.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

Center frequency DTS Channel center frequency

RBW: 100kHz VBW: 300kHz

Span 1.5times the DTS bandwidth

Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Set the spectrum analyzer as follows:

RBW: 100kHz VBW: 300kHz

Encompass frequency range to be

Span

measured

Number of measurement points ≥ span/RBW

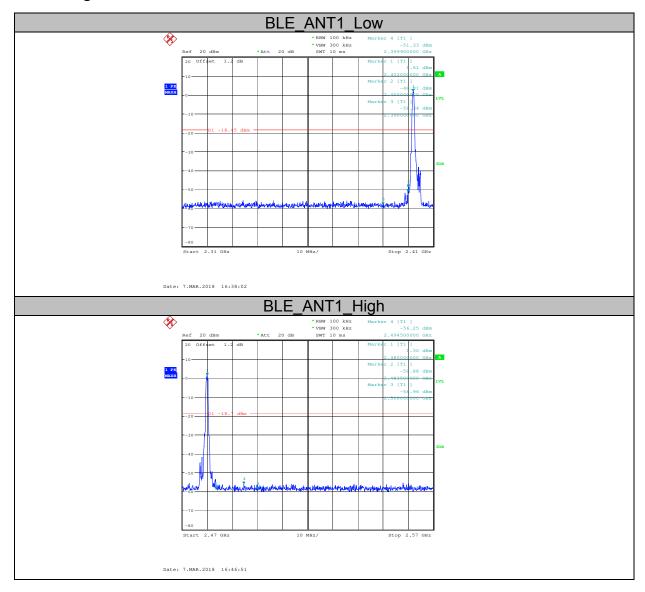
Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

7.4. Test Result

| EUT Set Mode | CH or Frequency | Measured Range | Result (dBm) |
|--------------|-----------------|-------------------|--------------|
| CECK | CH0 | 2.375GHz-2.405GHz | PASS |
| GFSK | CH39 | 2.476GHz-2.506GHz | PASS |

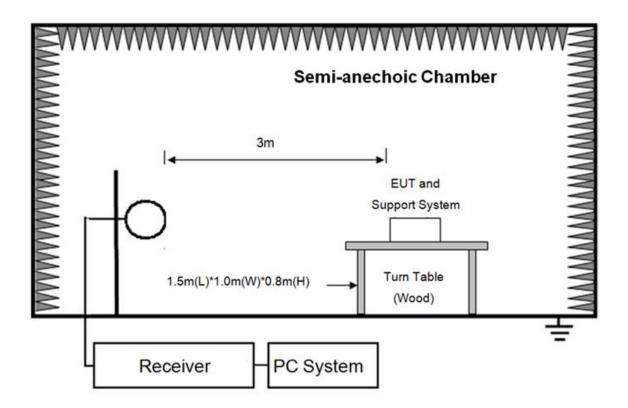
7.5. Original test data



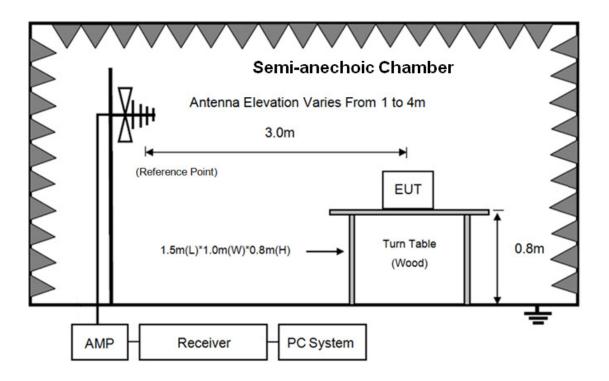
8. Radiated emission

8.1. Block diagram of test setup

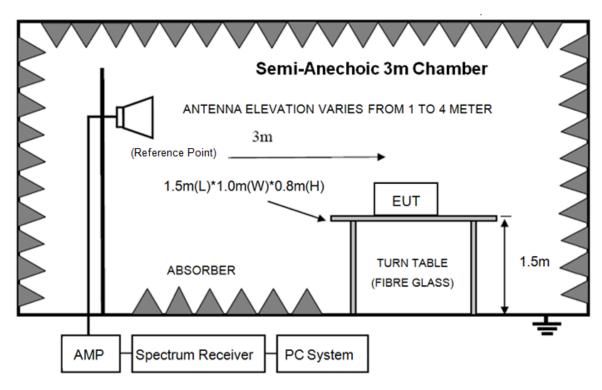
In 3m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

8.2.1 FCC 15.205 Restricted frequency band

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 10.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.1772&4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.2072&4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.G |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

8.2.2 FCC 15.209 Limit.

| FREQUENCY | DISTANCE | FIELD STRENGTHS LIMIT | | |
|---------------|----------|---|---------------|--|
| MHz | Meters | μV/m | dB(μV)/m | |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | 67.6-20log(F) | |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | 87.6-20log(F) | |
| 1.705 ~ 30.0 | 30 | 30 | 29.54 | |
| 30 ~ 88 | 3 | 100 | 40.0 | |
| 88 ~ 216 | 3 | 150 | 43.5 | |
| 216 ~ 960 | 3 | 200 | 46.0 | |
| 960 ~ 1000 | 3 | 500 | 54.0 | |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | | |

Report No.: DDT-R18012408-1E5

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

 $Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$

8.2.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for blow 1G and 150 cm above the ground plane inside a semi-anechoic chamber for above 1G.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

| Test frequency range | Test antenna used | Test antenna distance |
|----------------------|--------------------------|-----------------------|
| 9kHz-30MHz | Active Loop antenna | 3m |
| 30MHz-1GHz | Trilog Broadband Antenna | 3m |
| 1GHz-18GHz | Double Ridged Horn | 3m |
| | Antenna(1GHz-18GHz) | |
| 18GHz-40GHz | Horn | 1m |
| | Antenna(18GHz-40GHz) | |

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also

be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of

Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 25GHz:
 - (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
 - (b) Change work frequency or channel of device if practicable.
 - (c) Change modulation type of device if practicable.
 - (d) Change power supply range from 85% to 115% of the rated supply voltage
 - (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.
 - Spectrum frequency from 9kHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9kHz to 30MHz and 18GHz to 25GHzso below final test was performed with frequency range from 30MHz to 18GHz.
- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (6)The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

| Frequency band | RBW |
|----------------|--------|
| 9kHz-150kHz | 200Hz |
| 150kHz-30MHz | 9kHz |
| 30MHz-1GHz | 120kHz |

- (7)For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 3MHz for Average measure(according ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure).
- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

8.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 25GHz were comply with 15.209 limit.

Report No.: DDT-R18012408-1E5

Note1: According exploratory test no any obvious emission were detected from 9kHz to 30MHz and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in GFSK, Tx 2440MHz mode.

Note3: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2018 RE1# Report Data\Q18012408-1E V710GA\FCC

BELOW1G.EM6

Test Date : 2018-03-04 Tested By : TALENT

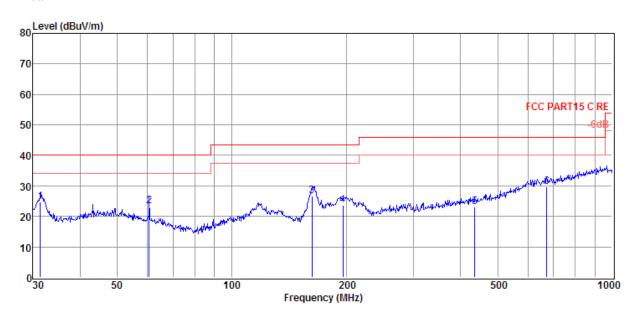
EUT : Bluetooth headset Model Number : Everest 710GA

Power Supply : Battery Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2017 VULB 9163 1#/3m/VERTICAL

Memo :

Data: 1



| Item | Freq. | Read | Antenna | Cable | Result | Limit | Over | Detector | Polarization |
|--------|--------|--------|---------|-------|----------|----------|--------|----------|--------------|
| | | Level | Factor | Loss | Level | Line | Limit | | |
| (Mark) | (MHz) | (dBµV) | (dB/m) | dB | (dBµV/m) | (dBµV/m) | (dB) | | |
| 1 | 31.40 | 10.08 | 10.75 | 3.79 | 24.62 | 40.00 | -15.38 | QP | VERTICAL |
| 2 | 60.70 | 7.94 | 11.23 | 4.10 | 23.27 | 40.00 | -16.73 | QP | VERTICAL |
| 3 | 162.61 | 13.16 | 8.75 | 4.84 | 26.75 | 43.50 | -16.75 | QP | VERTICAL |
| 4 | 195.82 | 7.39 | 11.14 | 5.00 | 23.53 | 43.50 | -19.97 | QP | VERTICAL |
| 5 | 435.59 | 1.28 | 16.08 | 5.71 | 23.07 | 46.00 | -22.93 | QP | VERTICAL |
| 6 | 672.84 | 3.20 | 19.62 | 6.92 | 29.74 | 46.00 | -16.26 | QP | VERTICAL |

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Report No.: DDT-R18012408-1E5

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2018 RE1# Report Data\Q18012408-1E V710GA\FCC

BELOW1G.EM6

Test Date : 2018-03-04 Tested By : TALENT

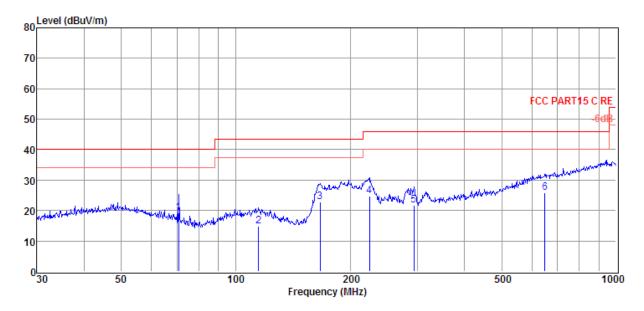
EUT : Bluetooth headset Model Number : Everest 710GA

Power Supply : Battery Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2017 VULB 9163 1#/3m/HORIZONTAL

Memo : BLE

Data: 2



| Item | Freq. | Read | Antenna | Cable | Result | Limit | Over | Detector | Polarization |
|--------|--------|--------|---------|-------|----------|----------|--------|----------|--------------|
| | | Level | Factor | Loss | Level | Line | Limit | | |
| (Mark) | (MHz) | (dBµV) | (dB/m) | dB | (dBµV/m) | (dBµV/m) | (dB) | | |
| 1 | 70.83 | 5.95 | 9.06 | 4.18 | 19.19 | 40.00 | -20.81 | QP | HORIZONTAL |
| 2 | 114.92 | 0.50 | 9.75 | 4.53 | 14.78 | 43.50 | -28.72 | QP | HORIZONTAL |
| 3 | 166.65 | 9.06 | 8.98 | 4.86 | 22.90 | 43.50 | -20.60 | QP | HORIZONTAL |
| 4 | 224.52 | 7.57 | 12.01 | 5.16 | 24.74 | 46.00 | -21.26 | QP | HORIZONTAL |
| 5 | 294.11 | 3.03 | 13.21 | 5.50 | 21.74 | 46.00 | -24.26 | QP | HORIZONTAL |
| 6 | 649.66 | -0.42 | 19.55 | 6.85 | 25.98 | 46.00 | -20.02 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

| Hadiated | | OII tost | Jabore | above rariz) | | | | | | | |
|----------------|--------------------|-------------------|---------------|--------------|-----------------|-----------------|----------------|------------------|--------------|--|--|
| Freq. (MHz) | Read level | Antenna Factor | PRM Factor | Cable | Result Level | Limit (dBµV/ | Margin (dB) | Detector type | Polarization | | |
| | (dBµV) | (dB/m) | (dB) | (dB) | (dBµV/m) | m) | | | | | |
| GFSK Tx n | | | 1 | 1 | | 1 | | | | | |
| 4655.00 | 34.29 | 34.45 | 29.28 | 7.23 | 46.69 | 74.00 | -27.31 | Peak | HORIZONTAL | | |
| 6899.00 | 33.44 | 36.58 | 30.31 | 8.32 | 48.03 | 74.00 | -25.97 | Peak | HORIZONTAL | | |
| 8225.00 | 34.07 | 37.24 | 31.33 | 9.49 | 49.47 | 74.00 | -24.53 | Peak | HORIZONTAL | | |
| 9041.00 | 34.00 | 37.52 | 32.34 | 10.39 | 49.57 | 74.00 | -24.43 | Peak | HORIZONTAL | | |
| 10571.00 | 33.52 | 38.54 | 33.33 | 10.99 | 49.72 | 74.00 | -24.28 | Peak | HORIZONTAL | | |
| 12186.00 | 33.59 | 38.86 | 34.92 | 11.04 | 48.57 | 74.00 | -25.43 | Peak | HORIZONTAL | | |
| 4791.00 | 37.39 | 34.67 | 29.31 | 7.37 | 50.12 | 74.00 | -23.88 | Peak | VERTICAL | | |
| 6576.00 | 34.37 | 35.87 | 29.97 | 8.28 | 48.55 | 74.00 | -25.45 | Peak | VERTICAL | | |
| 7970.00 | 34.61 | 37.19 | 31.12 | 9.20 | 49.88 | 74.00 | -24.12 | Peak | VERTICAL | | |
| 9381.00 | 34.55 | 37.65 | 32.52 | 10.57 | 50.25 | 74.00 | -23.75 | Peak | VERTICAL | | |
| 10894.00 | 33.13 | 38.74 | 33.74 | 11.04 | 49.17 | 74.00 | -24.83 | Peak | VERTICAL | | |
| 12084.00 | 33.68 | 38.88 | 34.85 | 11.00 | 48.71 | 74.00 | -25.29 | Peak | VERTICAL | | |
| GFSK Tx n | node 2441 i | MHz | | | | | | | | | |
| 5080.00 | 35.61 | 35.08 | 29.34 | 7.63 | 48.98 | 74.00 | -25.02 | Peak | HORIZONTAL | | |
| 6661.00 | 34.79 | 36.05 | 30.10 | 8.29 | 49.03 | 74.00 | -24.97 | Peak | HORIZONTAL | | |
| 7936.00 | 34.46 | 37.17 | 31.11 | 9.17 | 49.69 | 74.00 | -24.31 | Peak | HORIZONTAL | | |
| 9500.00 | 33.98 | 37.70 | 32.62 | 10.63 | 49.69 | 74.00 | -24.31 | Peak | HORIZONTAL | | |
| 10945.00 | 33.68 | 38.77 | 33.80 | 11.05 | 49.70 | 74.00 | -24.30 | Peak | HORIZONTAL | | |
| 13274.00 | 33.99 | 39.57 | 35.50 | 11.63 | 49.69 | 74.00 | -24.31 | Peak | HORIZONTAL | | |
| 4791.00 | 34.33 | 34.67 | 29.31 | 7.37 | 47.06 | 74.00 | -26.94 | Peak | VERTICAL | | |
| 6576.00 | 35.55 | 35.87 | 29.97 | 8.28 | 49.73 | 74.00 | -24.27 | Peak | VERTICAL | | |
| 8225.00 | 34.77 | 37.24 | 31.33 | 9.49 | 50.17 | 74.00 | -23.83 | Peak | VERTICAL | | |
| 10010.00 | 34.73 | 38.21 | 32.92 | 10.89 | 50.91 | 74.00 | -23.09 | Peak | VERTICAL | | |
| 10911.00 | 33.58 | 38.75 | 33.74 | 11.04 | 49.63 | 74.00 | -24.37 | Peak | VERTICAL | | |
| 12084.00 | 34.34 | 38.88 | 34.85 | 11.00 | 49.37 | 74.00 | -24.63 | Peak | VERTICAL | | |
| GFSK Tx n | node 2480I | MHz | | | | | | | | | |
| 4961.00 | 37.13 | 34.94 | 29.35 | 7.54 | 50.26 | 74.00 | -23.74 | Peak | HORIZONTAL | | |
| 6780.00 | 34.87 | 36.32 | 30.24 | 8.30 | 49.25 | 74.00 | -24.75 | Peak | HORIZONTAL | | |
| 8021.00 | 34.78 | 37.20 | 31.17 | 9.25 | 50.06 | 74.00 | -23.94 | Peak | HORIZONTAL | | |
| 9211.00 | 33.90 | 37.58 | 32.42 | 10.48 | 49.54 | 74.00 | -24.46 | Peak | HORIZONTAL | | |
| 10469.00 | 33.68 | 38.48 | 33.25 | 10.97 | 49.88 | 74.00 | -24.12 | Peak | HORIZONTAL | | |
| 11251.00 | 33.60 | 38.70 | 34.28 | 11.04 | 49.06 | 74.00 | -24.94 | Peak | HORIZONTAL | | |
| <u> </u> | | | • | • | • | • | | | | | |

Note:1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup

Same as section 4.1

^{2.} For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

Report No.: DDT-R18012408-1E5

9.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

Center frequency DTS Channel center frequency

RBW: 100kHz VBW: 300kHz

Span 1.5times the DTS bandwidth

Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Set the spectrum analyzer as follows:

RBW: 100kHz VBW: 300kHz

Span Encompass frequency range to be measured

Number of measurement

points ≥span/RBW

Detector Mode: Peak
Sweep time: auto

Trace mode Max hold

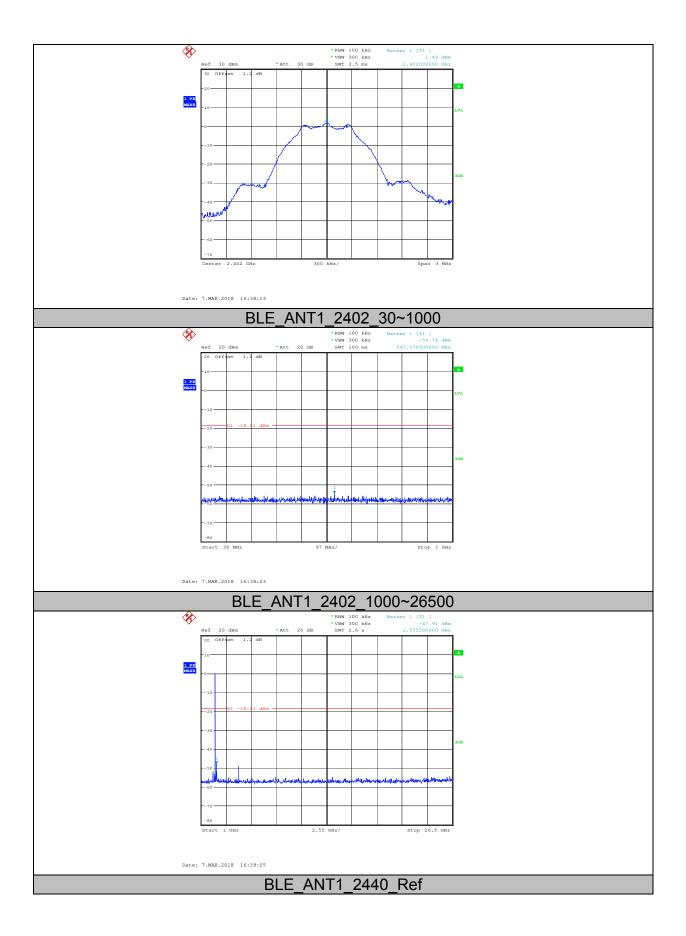
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

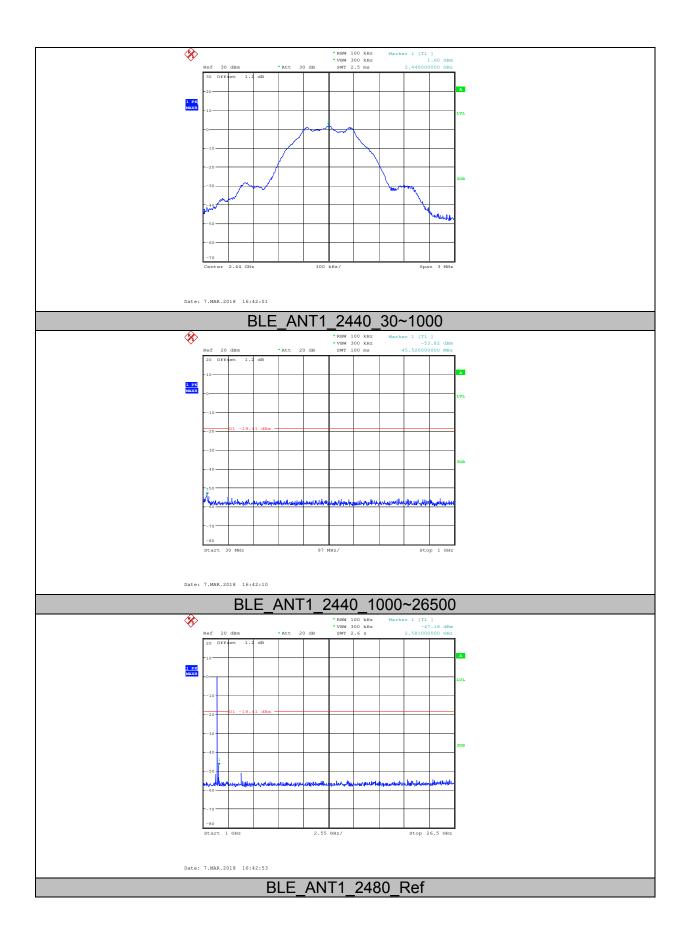
9.4. Test Result

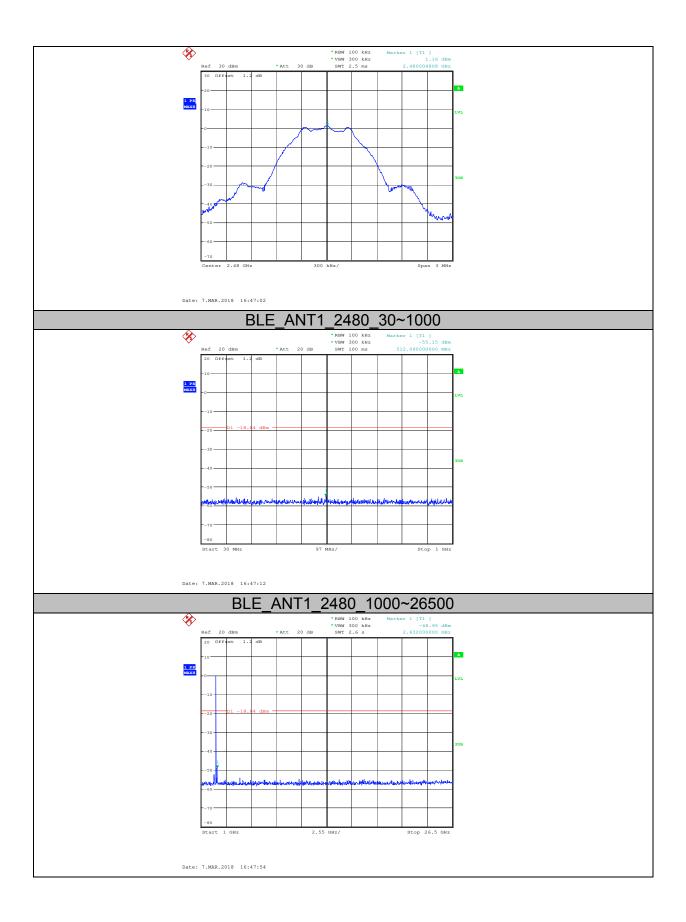
| Mode | Freq. (MHz) | Conclusion |
|------|------------------|------------|
| | Hopping off 2402 | PASS |
| GFSK | Hopping off 2441 | PASS |
| | Hopping off 2480 | PASS |

9.5. Original test data

| BLF ANT1 | 2402 Ref | |
|----------|----------|--|

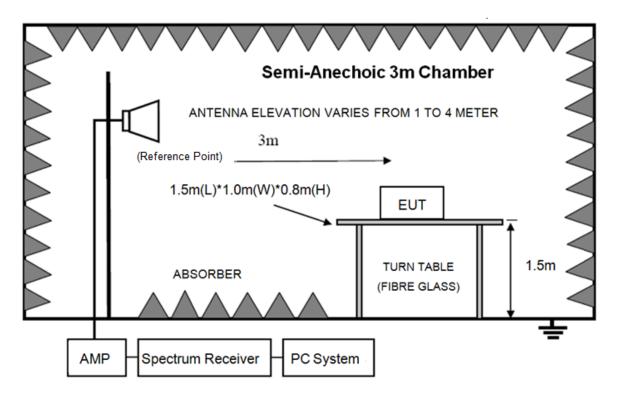






10. Emissions in restricted frequency bands

10.1. Block diagram of test setup



10.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz and 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

10.3. Test Procedure

Same with clause 8.3 except change investigated frequency range from 2310MHz to 2415MHz and 2475MHz to 2500MHz.

Remark: All restriction band have been tested, and only the worse case is shown in report.

10.4. Test result

PASS. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2018 RE1# Report Data\Q18012408-1E V710GA\FCC

ABOVE1G.EM6

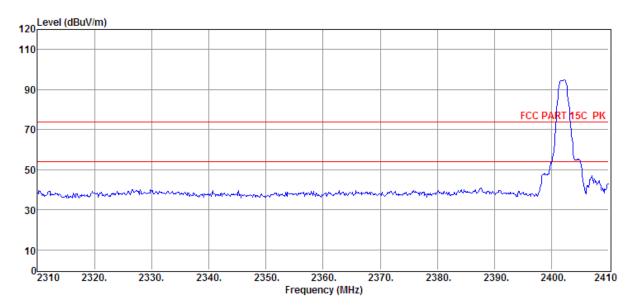
Test Date : 2018-03-05 Tested By : Talent

Power Supply : Battery Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : BLE 2402

Data: 17



| ľ | Item | Freq. | Read Level | Antenna Factor | PRM Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector | Polarization |
|---|--------|-------|---------------|-------------------|---------------|---------------|-----------------|---------------|---------------|----------|--------------|
| | (Mark) | (MHz) | (dBµV) | (dB/m) | dB | dB | (dBµV/m) | (dBµV/ m) | (dB) | | |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2018 RE1# Report Data\Q18012408-1E V710GA\FCC

ABOVE1G.EM6

Test Date : 2018-03-05 Tested By : Talent

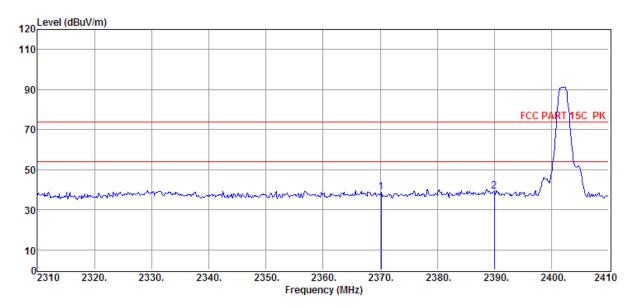
EUT : Bluetooth headset Model Number : Everest 710GA

Power Supply : Battery Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2017 HF907/3m/HORIZONTAL

Memo : BLE 2402

Data: 18



| Item | Freq. | Read | Antenna | PRM | Cable | Result | Limit | Over | Detector | Polarization |
|--------|---------|--------|---------|--------|-------|--------------|--------------|--------|----------|--------------|
| | | Level | Factor | Factor | Loss | Level | Line | Limit | | |
| (Mark) | (MHz) | (dBµV) | (dB/m) | dB | dB | (dBµV/m) | (dBµV/ m) | (dB) | | |
| 1 | 2370.20 | 36.11 | 26.93 | 29.37 | 5.09 | 38.76 | 74.00 | -35.24 | Peak | HORIZONTAL |
| 2 | 2390.00 | 36.59 | 27.00 | 29.42 | 5.11 | 39.28 | 74.00 | -34.72 | Peak | HORIZONTAL |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Report No.: DDT-R18012408-1E5

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2018 RE1# Report Data\Q18012408-1E V710GA\FCC

ABOVE1G.EM6

Test Date : 2018-03-05 Tested By : Talent

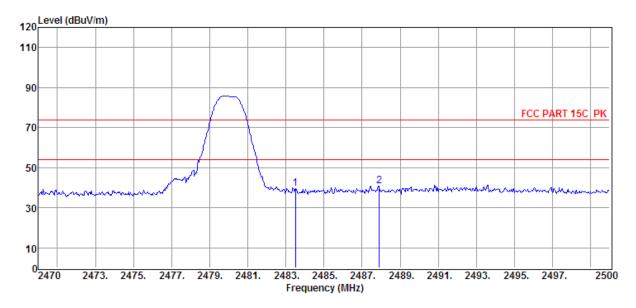
EUT : Bluetooth headset **Model Number** : Everest 710GA

Power Supply: BatteryTest Mode: Tx mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2017 HF907/3m/HORIZONTAL

Memo : BLE 2480

Data: 23



| Item | Freq. | Read | Antenna | PRM | Cable | Result | Limit | Over | Detector | Polarization |
|--------|---------|--------|---------|--------|-------|--------------|--------------|--------|----------|--------------|
| | | Level | Factor | Factor | Loss | Level | Line | Limit | | |
| (Mark) | (MHz) | (dBµV) | (dB/m) | dB | dB | (dBµV/m) | (dBµV/ m) | (dB) | | |
| 1 | 2483.50 | 36.69 | 27.34 | 29.71 | 5.21 | 39.53 | 74.00 | -34.47 | Peak | HORIZONTAL |
| 2 | 2487.91 | 38.00 | 27.36 | 29.71 | 5.22 | 40.87 | 74.00 | -33.13 | Peak | HORIZONTAL |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# D:\2018 RE1# Report Data\Q18012408-1E V710GA\FCC

ABOVE1G.EM6

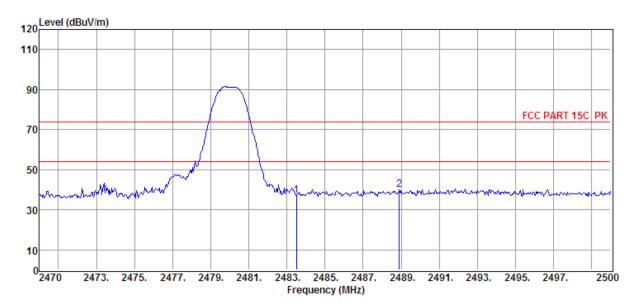
Test Date : 2018-03-05 Tested By : Talent

Power Supply : Battery Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : BLE 2480

Data: 24

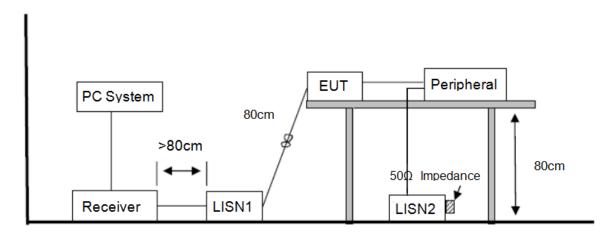


| Item | Freq. | Read Level | Antenna Factor | PRM Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector | Polarization |
|--------|---------|---------------|-------------------|---------------|---------------|-----------------|---------------|---------------|----------|--------------|
| (Mark) | (MHz) | (dBµV) | (dB/m) | dB | dB | (dBµV/m | (dBµV/ m) | (dB) | | |
| 1 | 2483.50 | 34.10 | 27.34 | 29.71 | 5.21 | 36.94 | 74.00 | -37.06 | Peak | VERTICAL |
| 2 | 2488.90 | 37.16 | 27.36 | 29.71 | 5.22 | 40.03 | 74.00 | -33.97 | Peak | VERTICAL |

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

11. Power Line Conducted Emission

11.1. Block diagram of test setup



11.2. Power Line Conducted Emission Limits

| Frequency | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
|-----------------|----------------------------|-------------------------|
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

11.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

Report No.: DDT-R18012408-1E5

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

11.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection

Note3:Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 230V/50Hz, recorded worst case.

TR-4-E-010 Conducted Emission Test Result

Report No.: DDT-R18012408-1E5

Test Site : DDT 1# Shield Room E:\2018 CE report data\Q18012408-1E\CE.EM6

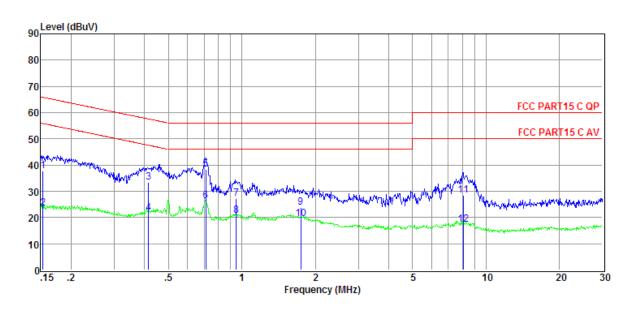
Test Date : 2018-02-28 Tested By : Xuemin

EUT : Bluetooth headset Model Number : Everest 710GA

Power Supply : AC 120V/60Hz Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 ENV216/LINE

Memo :



| Item | Freq. | Read | LISN | Cable | Pulse | Result | Limit | Over | Detector | Phase |
|--------|-------|--------|--------|-------|---------|--------|--------|--------|----------|-------|
| | | Level | Factor | Loss | Limiter | Level | Line | Limit | | |
| | | | | | Factor | | | | | |
| (Mark) | (MHz) | (dBµV) | (dB) | (dB) | (dB) | (dBµV) | (dBµV) | (dB) | | |
| 1 | 0.15 | 18.22 | 9.62 | 0.02 | 9.86 | 37.72 | 65.82 | -28.10 | QP | LINE |
| 2 | 0.15 | 3.97 | 9.62 | 0.02 | 9.86 | 23.47 | 55.82 | -32.35 | Average | LINE |
| 3 | 0.41 | 13.77 | 9.62 | 0.02 | 9.86 | 33.27 | 57.55 | -24.28 | QP | LINE |
| 4 | 0.41 | 2.26 | 9.62 | 0.02 | 9.86 | 21.76 | 47.55 | -25.79 | Average | LINE |
| 5 | 0.71 | 18.75 | 9.62 | 0.03 | 9.86 | 38.26 | 56.00 | -17.74 | QP | LINE |
| 6 | 0.71 | 6.64 | 9.62 | 0.03 | 9.86 | 26.15 | 46.00 | -19.85 | Average | LINE |
| 7 | 0.95 | 7.67 | 9.62 | 0.03 | 9.86 | 27.18 | 56.00 | -28.82 | QP | LINE |
| 8 | 0.95 | 1.26 | 9.62 | 0.03 | 9.86 | 20.77 | 46.00 | -25.23 | Average | LINE |
| 9 | 1.74 | 4.19 | 9.63 | 0.04 | 9.87 | 23.73 | 56.00 | -32.27 | QP | LINE |
| 10 | 1.74 | -0.10 | 9.63 | 0.04 | 9.87 | 19.44 | 46.00 | -26.56 | Average | LINE |
| 11 | 8.06 | 8.75 | 9.71 | 0.09 | 9.89 | 28.44 | 60.00 | -31.56 | QP | LINE |
| 12 | 8.06 | -2.33 | 9.71 | 0.09 | 9.89 | 17.36 | 50.00 | -32.64 | Average | LINE |

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Report No.: DDT-R18012408-1E5

Test Site : DDT 1# Shield Room E:\2018 CE report data\Q18012408-1E\CE.EM6

Test Date : 2018-02-28 Tested By : Xuemin

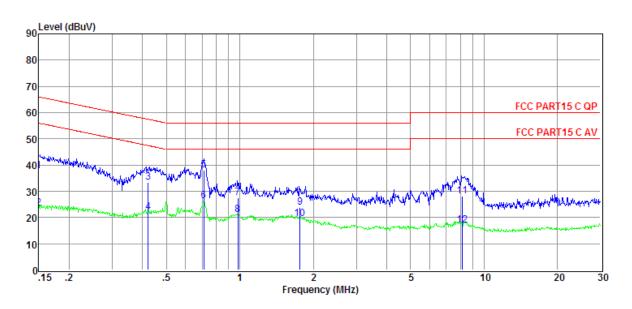
EUT : Bluetooth headset Model Number : Everest 710GA

Power Supply : AC 120V/60Hz Test Mode : Tx mode

ConditionTemp:24.5'C,Humi:55%,
Press:100.1kPa

LISN : 2016 ENV216/NEUTRAL

Memo :



| Item | Freq. | Read | LISN | Cable | Pulse | Result | Limit | Over | Detector | Phase |
|--------|-------|--------|--------|-------|---------|--------|--------|--------|----------|---------|
| | | Level | Factor | Loss | Limiter | Level | Line | Limit | | |
| | | | | | Factor | | | | | |
| (Mark) | (MHz) | (dBµV) | (dB) | (dB) | (dB) | (dBµV) | (dBµV) | (dB) | | |
| 1 | 0.15 | 18.22 | 9.60 | 0.02 | 9.86 | 37.70 | 66.00 | -28.30 | QP | NEUTRAL |
| 2 | 0.15 | 4.11 | 9.60 | 0.02 | 9.86 | 23.59 | 56.00 | -32.41 | Average | NEUTRAL |
| 3 | 0.42 | 13.83 | 9.60 | 0.02 | 9.86 | 33.31 | 57.42 | -24.11 | QP | NEUTRAL |
| 4 | 0.42 | 2.38 | 9.60 | 0.02 | 9.86 | 21.86 | 47.42 | -25.56 | Average | NEUTRAL |
| 5 | 0.71 | 18.64 | 9.60 | 0.03 | 9.86 | 38.13 | 56.00 | -17.87 | QP | NEUTRAL |
| 6 | 0.71 | 6.73 | 9.60 | 0.03 | 9.86 | 26.22 | 46.00 | -19.78 | Average | NEUTRAL |
| 7 | 0.98 | 7.97 | 9.61 | 0.03 | 9.86 | 27.47 | 56.00 | -28.53 | QP | NEUTRAL |
| 8 | 0.98 | 1.60 | 9.61 | 0.03 | 9.86 | 21.10 | 46.00 | -24.90 | Average | NEUTRAL |
| 9 | 1.76 | 4.19 | 9.62 | 0.04 | 9.87 | 23.72 | 56.00 | -32.28 | QP | NEUTRAL |
| 10 | 1.76 | -0.17 | 9.62 | 0.04 | 9.87 | 19.36 | 46.00 | -26.64 | Average | NEUTRAL |
| 11 | 8.15 | 8.48 | 9.71 | 0.09 | 9.89 | 28.17 | 60.00 | -31.83 | QP | NEUTRAL |
| 12 | 8.15 | -2.55 | 9.71 | 0.09 | 9.89 | 17.14 | 50.00 | -32.86 | Average | NEUTRAL |

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

12. Antenna Requirements

12.1. Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Report No.: DDT-R18012408-1E5

12.2. Result

The antennas used for this product is integrated antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.0dBi.

END OF REPORT