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Shenzhen Branch**

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Report No.: SZEM170100012801
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TEST REPORT

Application No.: SZEM1701000128CR
Applicant: Tektos Limited
Address of Applicant: Room F, 20/F, Kwong Ga factory Building, 64 Victoria Road, Kennedy Town, Hong Kong
Manufacturer: Hong Kong Di Tuo Si (Shenzhen) Co., Ltd
Address of Manufacturer: Floor 5th, Building A, Gangzhilong Business Center Heping East Road, Longhua District, shenzhen, Guangdong, China
Factory: Hong Kong Di Tuo Si (Shenzhen) Co., Ltd
Address of Factory: Floor 5th, Building A, Gangzhilong Business Center Heping East Road, Longhua District, shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Bagitag
Model No.: LUGT
Trade mark: Tektos
FCC ID: 2AA23LUGT
Standards: 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2017-01-06
Date of Test: 2017-01-12 to 2017-01-18
Date of Issue: 2017-01-19

| | |
|----------------------|--------------|
| Test Result : | Pass* |
|----------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.





Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2017-01-19 | | Original |
| | | | | |
| | | | | |

| | | | |
|--------------------------|---|--|------------|
| Authorized for issue by: | | | |
| Tested By |  | | |
| | Edison Li /Project Engineer | | 2017-01-18 |
| Checked By |  | | |
| | Eric Fu /Reviewer | | 2017-01-19 |



2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|----------------------------------|--------|--|--------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(c) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|--|---|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.9.1.1 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass |
| Minimum 6dB Bandwidth | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass |
| Power Spectrum Density | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass |
| Conducted Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | 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 15.205 & 15.209 | 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 15.205 & 15.209 | Pass |
| Conducted Band Edges Measurement | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |



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4 General Information

4.1 Details of E.U.T.

| | |
|--------------------------|-------------------------|
| Power supply: | DC 3.0V Lithium battery |
| RF power | ≤10mw |
| Modulated / Un-Modulated | GFSK |
| Frequency range | 2402MHz-2480MHz |
| Antenna type | Integral |
| Antenna gain | 5dBi |
| Bluetooth version | V4.0 BLE |
| Number of channels | 40 |
| Sample type | Portable product |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Operation Frequency each of channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |

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 (CH0) | 2402MHz |
| The middle channel (CH19) | 2440MHz |
| The highest channel (CH39) | 2480MHz |

4.4 Test Environment

Operating Environment:

| | |
|-----------------------|----------|
| Temperature: | 25.0 °C |
| Humidity: | 53 % RH |
| Atmospheric Pressure: | 1010mbar |

4.5 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.25 x 10-8 |
| 2 | Duty cycle | 0.37% |
| 3 | Occupied Bandwidth | 3% |
| 4 | RF conducted power | 0.75dB |
| 5 | RF power density | 2.84dB |
| 6 | Conducted Spurious emissions | 0.75dB |
| 7 | RF Radiated power | 4.5dB (below 1GHz) |
| 8 | | 4.8dB (above 1GHz) |
| 9 | Radiated Spurious emission test | 4.5dB (30MHz-1GHz) |
| | | 4.8dB (1GHz-18GHz) |
| | Temperature test | 1 °C |
| 10 | Humidity test | 3% |
| 11 | Supply voltages | 1.5% |
| 12 | Time | 3% |



4.6 Standards Applicable for Testing

Table 1 : Tests Carried Out Under 47 CFR Part 15, Subpart C 15.247

| Item | Status |
|--|--------|
| Conducted Disturbance at AC Power Line(150kHz-30MHz) | × |
| 20dB Bandwidth | × |
| Conducted Peak Output Power | √ |
| Carrier Frequencies Separation | × |
| Hopping Channel Number | × |
| Dwell Time | × |
| Minimum 6dB Bandwidth | √ |
| Power Spectrum Density | √ |
| Conducted Spurious Emissions | √ |
| Radiated Spurious Emissions | √ |
| Radiated Emissions which fall in the restricted bands | √ |
| Conducted Band Edges Measurement | √ |
| Antenna Requirement | √ |
| Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence | × |

× Indicates that the test is not applicable
√ Indicates that the test is applicable



4.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.8 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory 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 our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.9 Deviation from Standards

None

4.10 Abnormalities from Standard Conditions

None



5 Equipment List

| RF Conducted Test | | | | | |
|-------------------|-----------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2016-10-09 | 2017-10-09 |
| Signal Generator | Rohde & Schwarz | SML03 | SEM006-02 | 2016-04-25 | 2017-04-25 |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2016-10-09 | 2017-10-09 |

| RE in Chamber | | | | | | |
|---------------|--------------------------------|----------------------|-----------|---------------|---------------------------|-------------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2016-05-13 | 2017-05-13 |
| 2 | EMI Test Receiver | Agilent Technologies | N9038A | SEM004-05 | 2016-10-09 | 2017-10-09 |
| 3 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2014-11-01 | 2017-11-01 |
| 4 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEM003-11 | 2015-10-17 | 2018-10-17 |
| 5 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEM003-12 | 2014-11-24 | 2017-11-24 |
| 6 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2016-04-25 | 2017-04-25 |
| 7 | Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A |
| 8 | DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 |
| 9 | Loop Antenna | Beijing Daze | ZN30401 | SEM003-09 | 2015-05-13 | 2018-05-13 |



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| RE in Chamber | | | | | | |
|---------------|--------------------------------|--------------------------|-------------------|---------------|---------------------------|-------------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 1 | 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2016-05-13 | 2017-05-13 |
| 2 | EXA Spectrum Analyzer | Agilent Technologies Inc | N9010A | SEM004-09 | 2016-07-19 | 2017-07-19 |
| 3 | BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-02 | 2014-11-15 | 2017-11-15 |
| 4 | Amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2016-10-09 | 2017-10-09 |
| 5 | Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2015-06-14 | 2018-06-14 |
| 6 | Horn Antenna (18-26GHz) | ETS-Lindgren | 3160 | SEM003-12 | 2014-11-24 | 2017-11-24 |
| 7 | Horn Antenna(26GHz-40GHz) | A.H.Systems, inc. | SAS-573 | SEM003-13 | 2015-02-12 | 2018-02-12 |
| 8 | Low Noise Amplifier | Black Diamond Series | BDLNA-0118-352810 | SEM005-05 | 2016-10-09 | 2017-10-09 |
| 9 | Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A |

| General used equipment | | | | | |
|---------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2016-10-12 | 2017-10-12 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2016-10-12 | 2017-10-12 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2016-10-12 | 2017-10-12 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2016-05-18 | 2017-05-18 |

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247

6.1.2 Conclusion

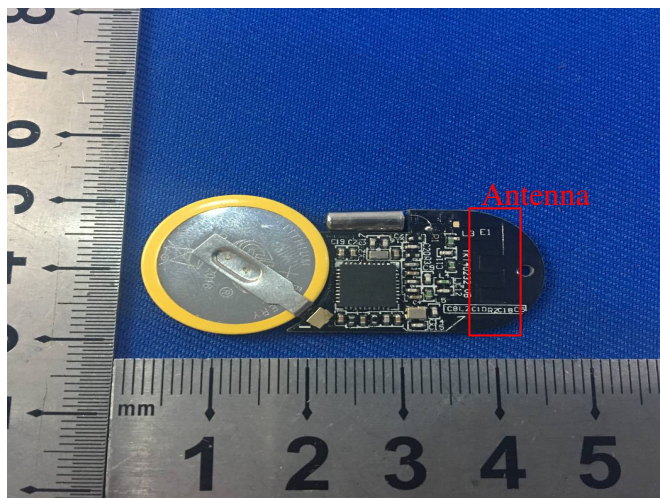
Standard Requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, 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 in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 5dBi.

7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement: 47 CFR Part 15, Subpart C 15.247 (b)(1)

Test Method: ANSI C63.10 (2013) Section 11.9.1.1

Limit:

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

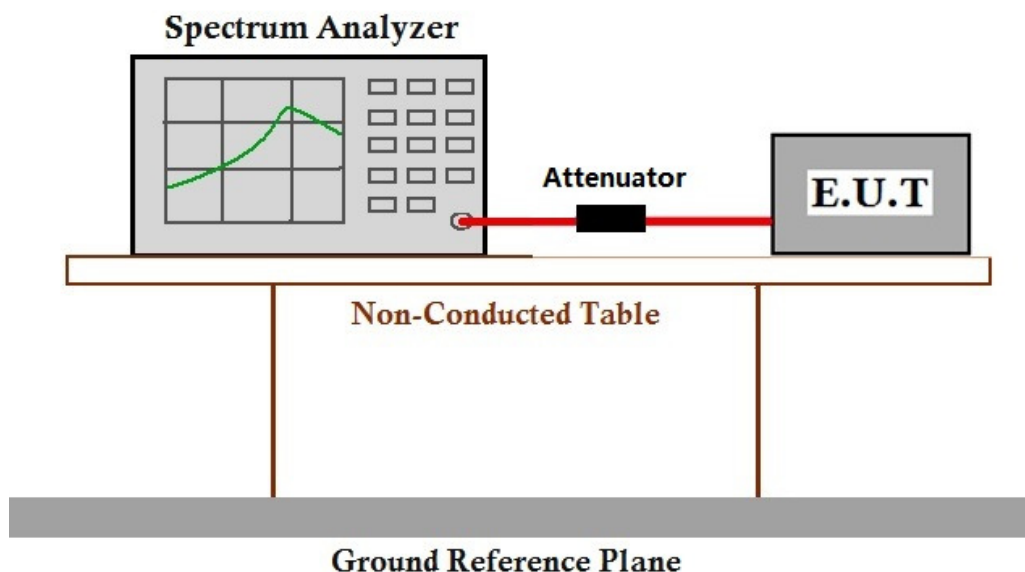
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

Test mode: a:TX mode, Keep the EUT in transmitting mode with GFSK modulation.

7.1.2 Test Setup Diagram



7.1.3 Measurement Data

The detailed test data see: Appendix 15.247

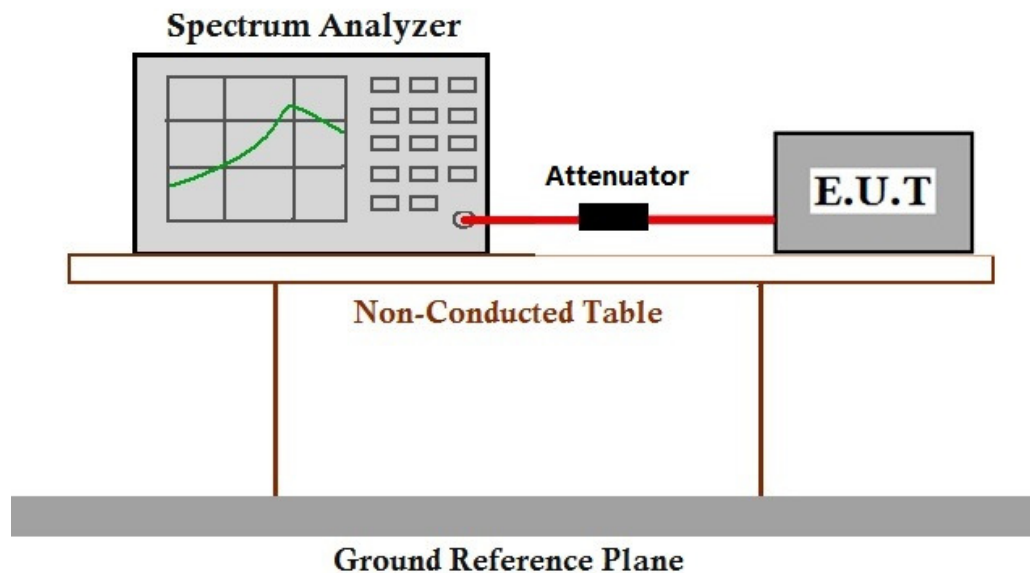
7.2 Minimum 6dB Bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.247(a)(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1
Limit: ≥ 500 kHz

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.0 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar
Test mode: a:TX mode, Keep the EUT in transmitting mode with GFSK modulation.

7.2.2 Test Setup Diagram



7.2.3 Measurement Data

The detailed test data see: Appendix 15.247

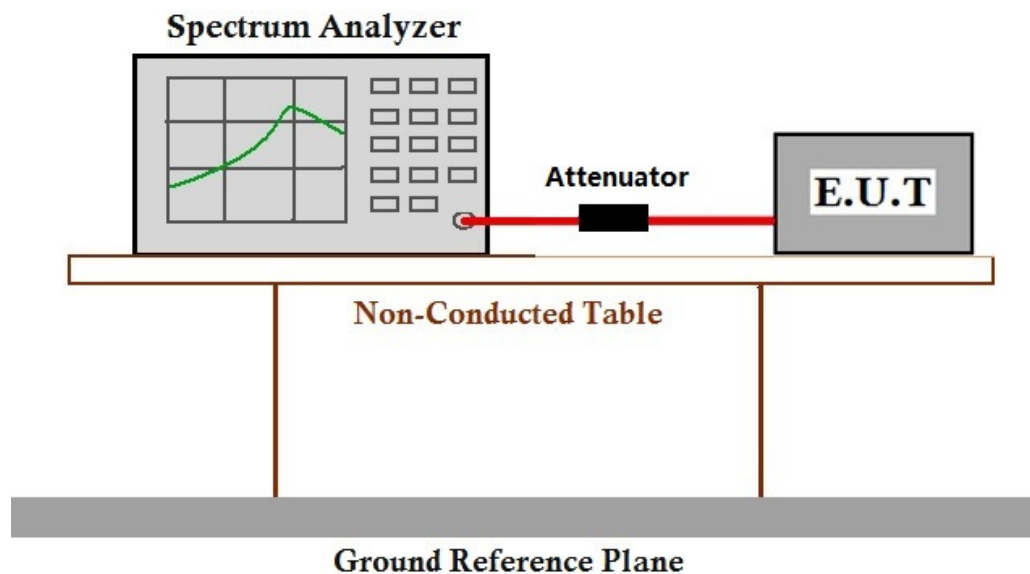
7.3 Power Spectrum Density

Test Requirement: 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2
Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.0 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar
Test mode: a:TX mode, Keep the EUT in transmitting mode with GFSK modulation.

7.3.2 Test Setup Diagram



7.3.3 Measurement Data

The detailed test data see: Appendix 15.247

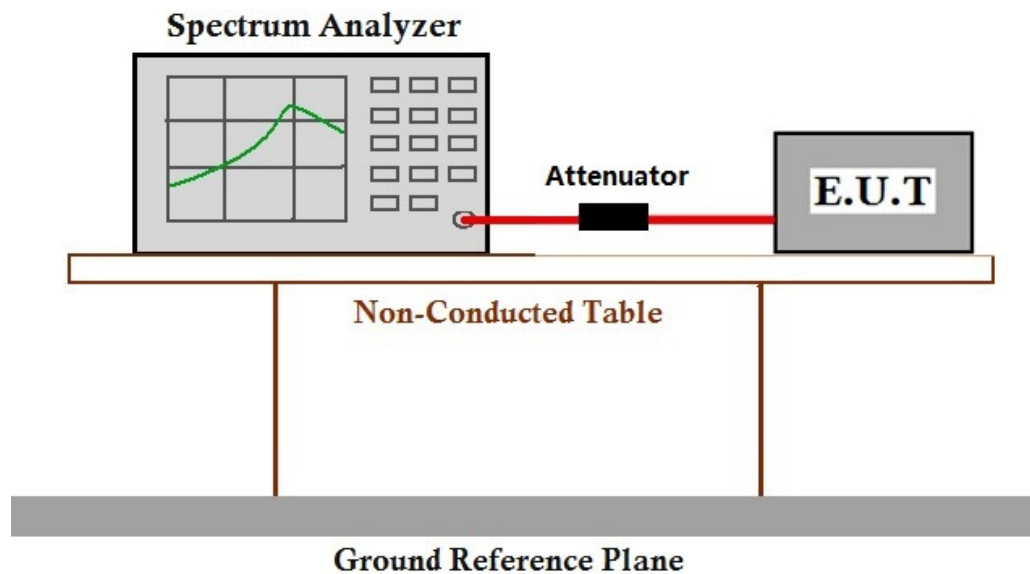
7.4 Band-edge for Conducted Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.247 (d)
Test Method: ANSI C63.10 (2013) Section 11.13
Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 23.0 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar
Test mode: a:TX mode, Keep the EUT in transmitting mode with GFSK modulation.

7.4.2 Test Setup Diagram



7.4.3 Measurement Data

The detailed test data see: Appendix 15.247

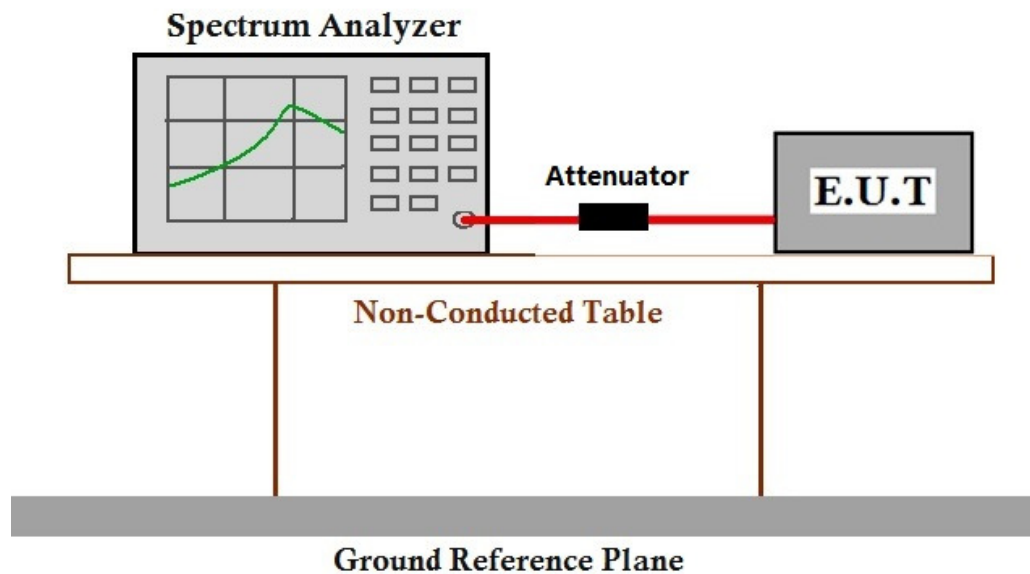
7.5 Conducted Spurious Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.247 (d)
 Test Method: ANSI C63.10 (2013) Section 11.11
 Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.0 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar
 Test mode: a:TX mode, Keep the EUT in transmitting mode with GFSK modulation.

7.5.2 Test Setup Diagram



7.5.3 Measurement Data

The detailed test data see: Appendix 15.247



7.6 Radiated Spurious Emissions

Test Requirement: 47 CFR Part 15C Section 15.209 and 15.205

Test Method: ANSI C63.10 :2013 Section 11.12

Measurement Distance: 3m

Limit:

| 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.

Receiver Setup:

| Frequency | Detector | RBW | VBW | Remark |
|-------------------|------------|---------|--------|------------|
| 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak |
| 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak |
| 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average |
| 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 100 kHz | 300kHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

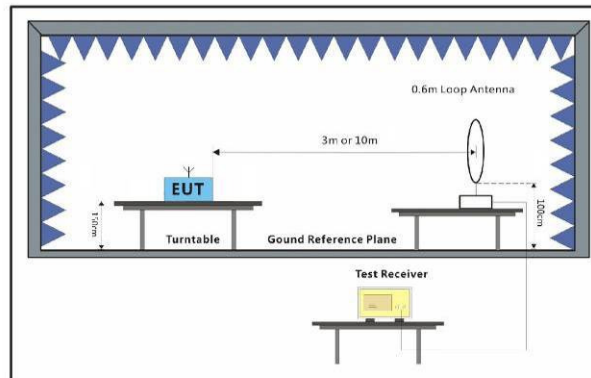
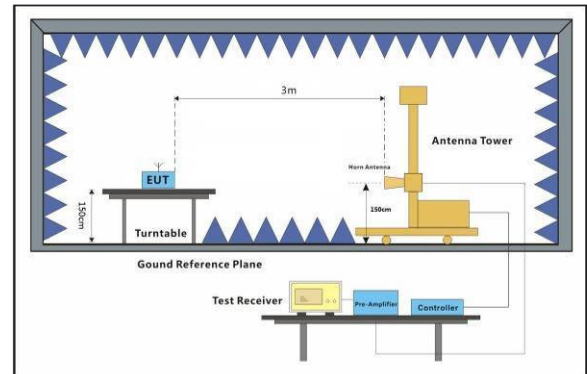
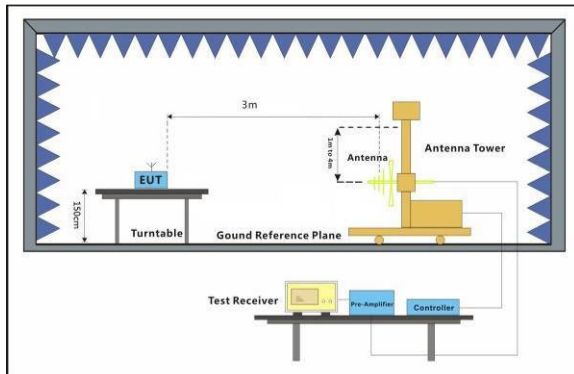
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Test mode: a:TX mode, Keep the EUT in transmitting mode with GFSK modulation.

7.6.2 Test Setup Diagram

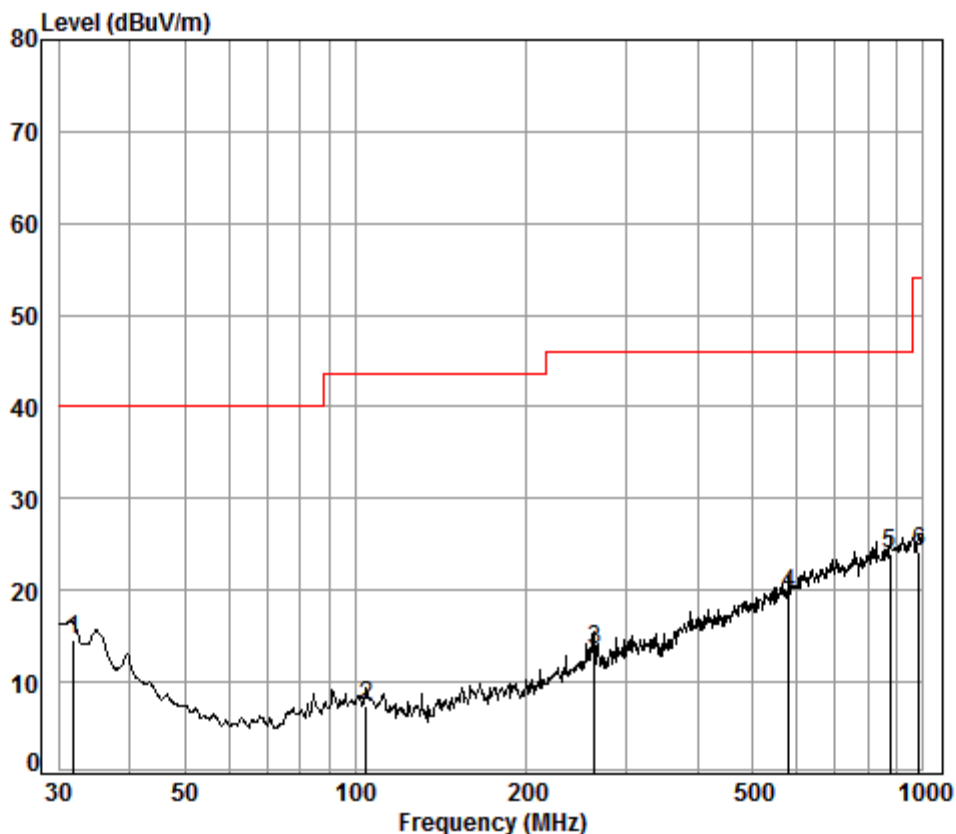


7.6.3 Measurement Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.



Mode:a;Polarization:Vertical



Condition: 3m VERTICAL

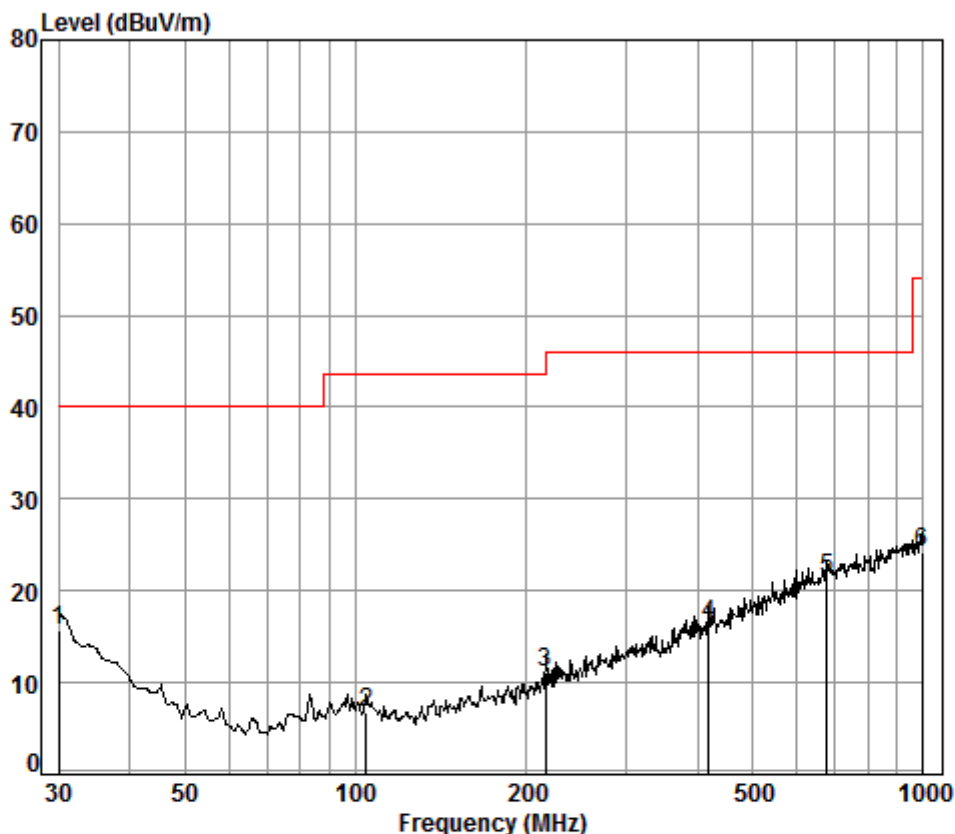
Job No. : 0128CR

Test mode: TX

| | Freq | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level | Limit Line | Over Limit |
|------|--------|------------|------------|---------------------|------------|--------|------------|------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 31.95 | 0.60 | 17.61 | 27.35 | 23.65 | 14.51 | 40.00 | -25.49 |
| 2 | 104.54 | 1.21 | 8.87 | 27.17 | 24.42 | 7.33 | 43.50 | -36.17 |
| 3 | 263.82 | 1.74 | 12.58 | 26.50 | 25.64 | 13.46 | 46.00 | -32.54 |
| 4 | 580.70 | 2.68 | 19.26 | 27.57 | 25.31 | 19.68 | 46.00 | -26.32 |
| 5 pp | 872.18 | 3.49 | 22.93 | 26.92 | 24.54 | 24.04 | 46.00 | -21.96 |
| 6 | 982.62 | 3.68 | 23.60 | 26.40 | 23.34 | 24.22 | 54.00 | -29.78 |



Mode:a;Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 0128CR

Test mode: TX

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit |
|------|--------|------------|------------|---------------|------------|--------|------------|------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 pp | 30.00 | 0.60 | 18.70 | 27.36 | 23.70 | 15.64 | 40.00 | -24.36 |
| 2 | 104.54 | 1.21 | 8.87 | 27.17 | 23.87 | 6.78 | 43.50 | -36.72 |
| 3 | 216.02 | 1.49 | 11.03 | 26.64 | 25.19 | 11.07 | 46.00 | -34.93 |
| 4 | 419.11 | 2.28 | 16.38 | 27.25 | 24.84 | 16.25 | 46.00 | -29.75 |
| 5 | 675.21 | 2.85 | 21.40 | 27.44 | 24.48 | 21.29 | 46.00 | -24.71 |
| 6 | 996.50 | 3.70 | 24.16 | 26.33 | 22.74 | 24.27 | 54.00 | -29.73 |



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| Transmitter Emission above 1GHz | | | | | | | | |
|---------------------------------|-----------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|
| Test mode: | | GFSK | | Test channel: | Lowest | | Remark: | Peak |
| Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3641.878 | 32.62 | 7.68 | 37.96 | 43.93 | 46.27 | 74 | -27.73 | Vertical |
| 4804.000 | 34.16 | 8.87 | 38.4 | 47.77 | 52.4 | 74 | -21.6 | Vertical |
| 5811.590 | 34.59 | 10.03 | 38.34 | 43.99 | 50.27 | 74 | -23.73 | Vertical |
| 7206.000 | 36.42 | 10.68 | 37.11 | 41.09 | 51.08 | 74 | -22.92 | Vertical |
| 9608.000 | 37.52 | 12.5 | 35.1 | 37.17 | 52.09 | 74 | -21.91 | Vertical |
| 12102.870 | 38.66 | 14.47 | 35.85 | 35.89 | 53.17 | 74 | -20.83 | Vertical |
| 3641.878 | 32.62 | 7.68 | 37.96 | 44.24 | 46.58 | 74 | -27.42 | Horizontal |
| 4804.000 | 34.16 | 8.87 | 38.4 | 45.48 | 50.11 | 74 | -23.89 | Horizontal |
| 5990.888 | 34.69 | 10.53 | 38.3 | 44.24 | 51.16 | 74 | -22.84 | Horizontal |
| 7206.000 | 36.42 | 10.68 | 37.11 | 41.92 | 51.91 | 74 | -22.09 | Horizontal |
| 9608.000 | 37.52 | 12.5 | 35.1 | 37.2 | 52.12 | 74 | -21.88 | Horizontal |
| 12226.070 | 38.74 | 14.37 | 36.14 | 36.29 | 53.26 | 74 | -20.74 | Horizontal |

| Test mode: | | GFSK | | Test channel: | | Middle | Remark: | | Peak |
|-----------------|-----------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 3842.163 | 33.18 | 7.76 | 37.98 | 46.52 | 49.48 | 74 | -24.52 | Vertical | |
| 4880.000 | 34.29 | 8.97 | 38.44 | 45.51 | 50.33 | 74 | -23.67 | Vertical | |
| 6025.661 | 34.72 | 10.53 | 38.27 | 44.83 | 51.81 | 74 | -22.19 | Vertical | |
| 7320.000 | 36.37 | 10.72 | 37.01 | 42.32 | 52.4 | 74 | -21.6 | Vertical | |
| 9760.000 | 37.55 | 12.58 | 35.02 | 37.55 | 52.66 | 74 | -21.34 | Vertical | |
| 12190.740 | 38.72 | 14.4 | 36.06 | 36.75 | 53.81 | 74 | -20.19 | Vertical | |
| 3792.453 | 33.04 | 7.74 | 37.98 | 44.61 | 47.41 | 74 | -26.59 | Horizontal | |
| 4880.000 | 34.29 | 8.97 | 38.44 | 44.51 | 49.33 | 74 | -24.67 | Horizontal | |
| 6025.661 | 34.72 | 10.53 | 38.27 | 44.04 | 51.02 | 74 | -22.98 | Horizontal | |
| 7320.000 | 36.37 | 10.72 | 37.01 | 42.84 | 52.92 | 74 | -21.08 | Horizontal | |
| 9760.000 | 37.55 | 12.58 | 35.02 | 37.54 | 52.65 | 74 | -21.35 | Horizontal | |
| 12173.120 | 38.71 | 14.42 | 36.02 | 36.36 | 53.47 | 74 | -20.53 | Horizontal | |



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| Test mode: | | GFSK | | Test channel: | | Highest | | Remark: | Peak |
|-----------------|-----------------------|-----------------|--------------------------|-------------------|----------------|---------------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 3663.017 | 32.68 | 7.69 | 37.97 | 44.54 | 46.94 | 74 | -27.06 | Vertical | |
| 4960.000 | 34.43 | 9.09 | 38.48 | 44.58 | 49.62 | 74 | -24.38 | Vertical | |
| 6025.661 | 34.72 | 10.53 | 38.27 | 44.17 | 51.15 | 74 | -22.85 | Vertical | |
| 7440.000 | 36.32 | 10.77 | 36.9 | 41.27 | 51.46 | 74 | -22.54 | Vertical | |
| 9920.000 | 37.58 | 12.67 | 34.94 | 37.09 | 52.4 | 74 | -21.6 | Vertical | |
| 12226.07 | 38.74 | 14.37 | 36.14 | 36.44 | 53.41 | 74 | -20.59 | Vertical | |
| 3579.190 | 32.43 | 7.66 | 37.96 | 44.84 | 46.97 | 74 | -27.03 | Horizontal | |
| 4960.000 | 34.43 | 9.09 | 38.48 | 44.07 | 49.11 | 74 | -24.89 | Horizontal | |
| 6069.413 | 34.76 | 10.47 | 38.23 | 44.79 | 51.79 | 74 | -22.21 | Horizontal | |
| 7440.000 | 36.32 | 10.77 | 36.9 | 41.88 | 52.07 | 74 | -21.93 | Horizontal | |
| 9920.000 | 37.58 | 12.67 | 34.94 | 37.54 | 52.85 | 74 | -21.15 | Horizontal | |
| 12085.370 | 38.65 | 14.49 | 35.8 | 35.89 | 53.23 | 74 | -20.77 | Horizontal | |

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, 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. So, only the peak measurements were shown in the report.

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement: 47 CFR Part 15C Section 15.209 and 15.205

Test Method: ANSI C63.10: 2013 Section 11.12

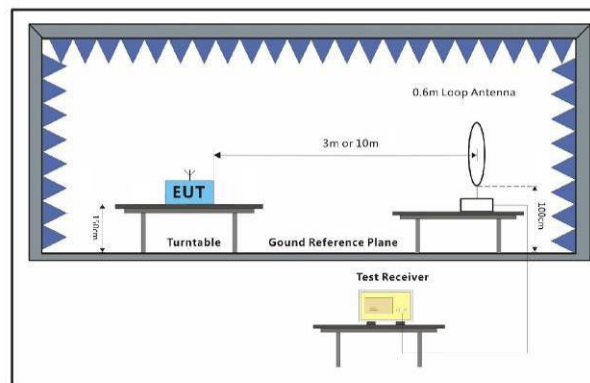
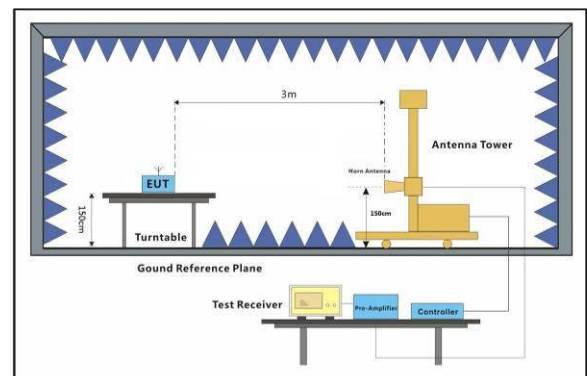
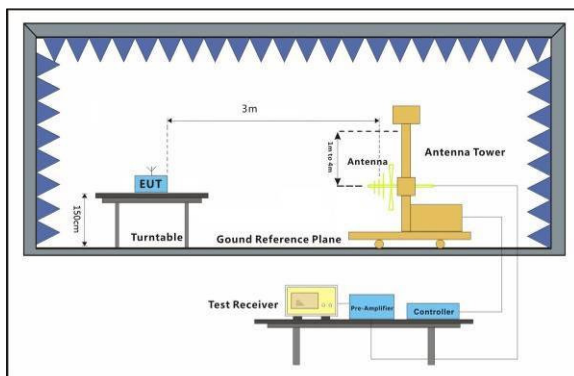
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Test mode: a:TX mode, Keep the EUT in transmitting mode with GFSK modulation.

7.7.2 Test Setup Diagram





7.7.3 Measurement Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.



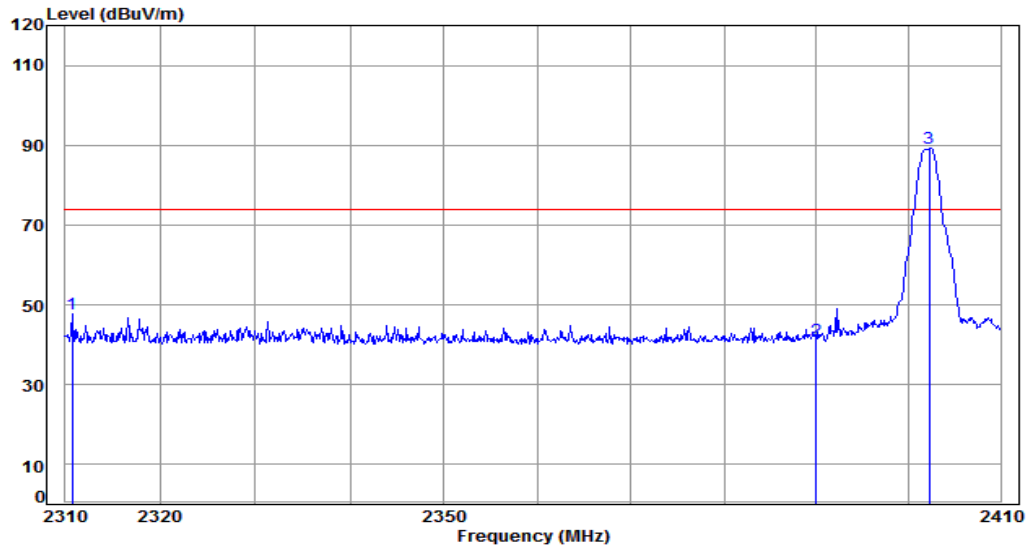
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Test plot as follows:

| | | | | |
|---------------|--------|---------|------|----------|
| Test channel: | Lowest | Remark: | Peak | Vertical |
|---------------|--------|---------|------|----------|



Condition: 3m Vertical
Job No: : 00128CR
Mode: : 2402 Bandedge
: BLE

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2310.685 | 5.28 | 28.84 | 37.97 | 51.60 | 47.75 | 74.00 | -26.25 | |
| 2 | 2390.000 | 5.34 | 29.08 | 37.96 | 44.78 | 41.24 | 74.00 | -32.76 | |
| 3 pp | 2402.250 | 5.35 | 29.11 | 37.96 | 92.76 | 89.26 | 74.00 | 15.26 | |

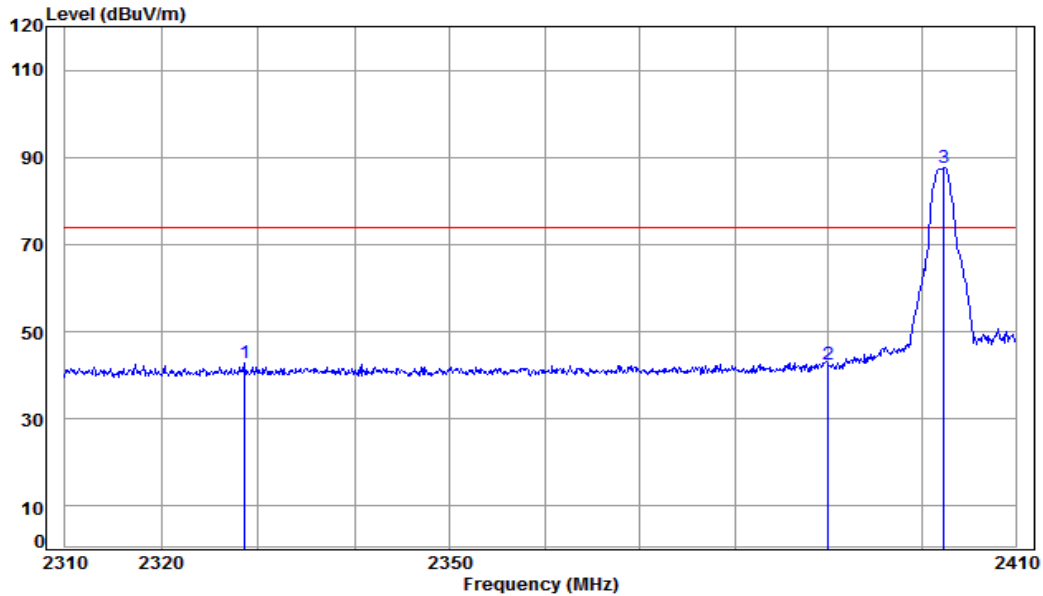


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| | | | | |
|---------------|--------|---------|------|------------|
| Test channel: | Lowest | Remark: | Peak | Horizontal |
|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 00128CR

Mode: : 2402 Bandedge

: BLE

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2328.577 | 5.29 | 28.89 | 37.97 | 46.73 | 42.94 | 74.00 | -31.06 | |
| 2 | 2390.000 | 5.34 | 29.08 | 37.96 | 46.19 | 42.65 | 74.00 | -31.35 | |
| 3 pp | 2402.352 | 5.35 | 29.11 | 37.96 | 91.14 | 87.64 | 74.00 | 13.64 | |

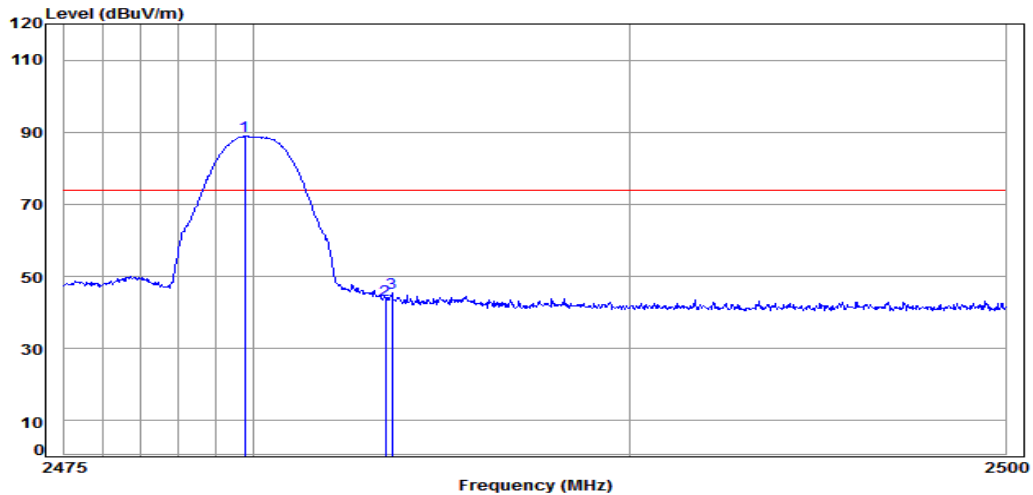


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| | | | | |
|---------------|---------|---------|------|----------|
| Test channel: | Highest | Remark: | Peak | Vertical |
|---------------|---------|---------|------|----------|

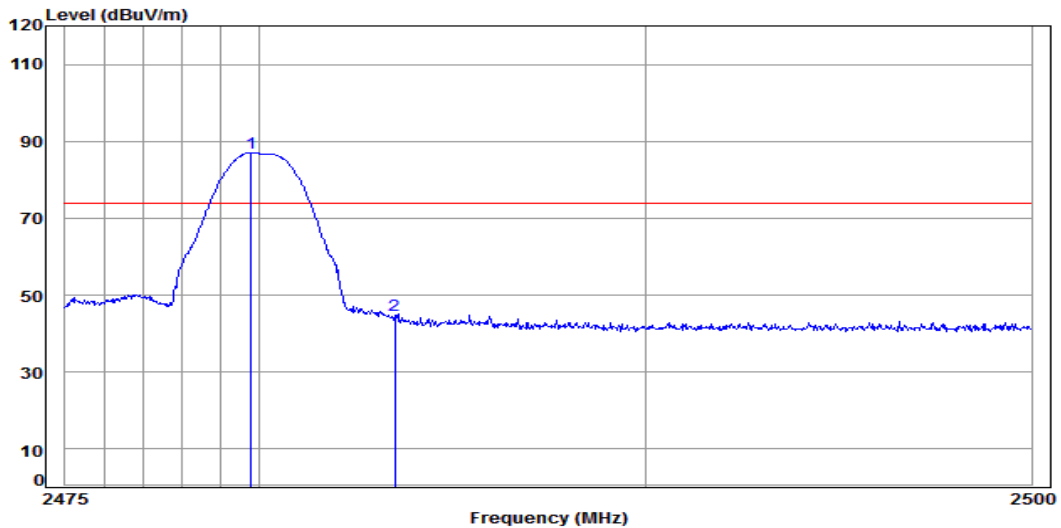


Condition: 3m VERTICAL
Job No: : 00128CR
Mode: : 2480 Bandedge
: BLE

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2479.781 | 5.41 | 29.34 | 37.95 | 92.04 | 88.84 | 74.00 | 14.84 | |
| 2 | 2483.500 | 5.41 | 29.35 | 37.95 | 46.77 | 43.58 | 74.00 | -30.42 | |
| 3 | 2483.672 | 5.41 | 29.35 | 37.95 | 48.51 | 45.32 | 74.00 | -28.68 | |



| | | | | |
|---------------|---------|---------|------|------------|
| Test channel: | Highest | Remark: | Peak | Horizontal |
|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL
Job No: : 00128CR
Mode: : 2480 Bandedge
: BLE

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2479.805 | 5.41 | 29.34 | 37.95 | 90.28 | 87.08 | 74.00 | 13.08 | |
| 2 | 2483.500 | 5.41 | 29.35 | 37.95 | 47.88 | 44.69 | 74.00 | -29.31 | |

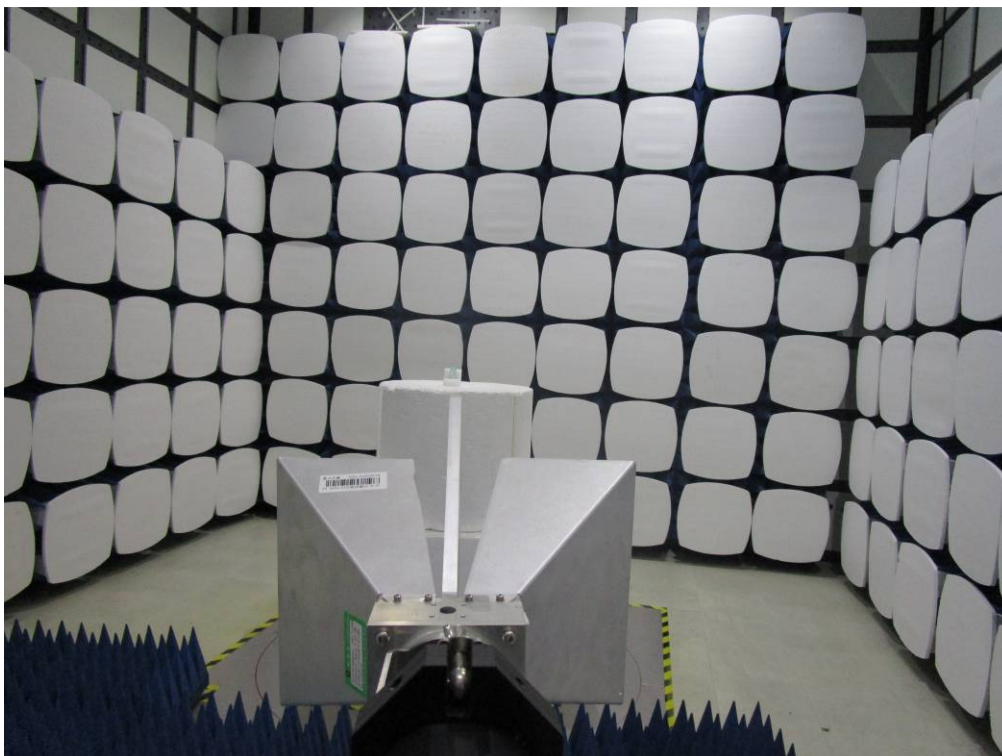
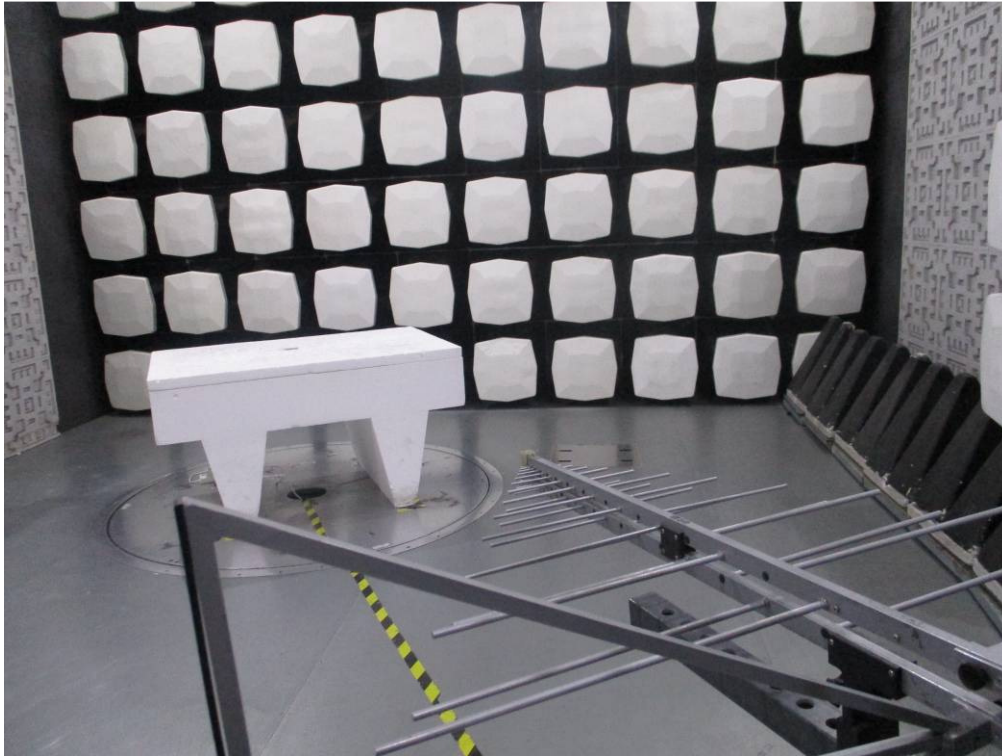
Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

8 Photographs

8.1 Radiated Spurious Emissions Test Setup





8.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1701000128CR.

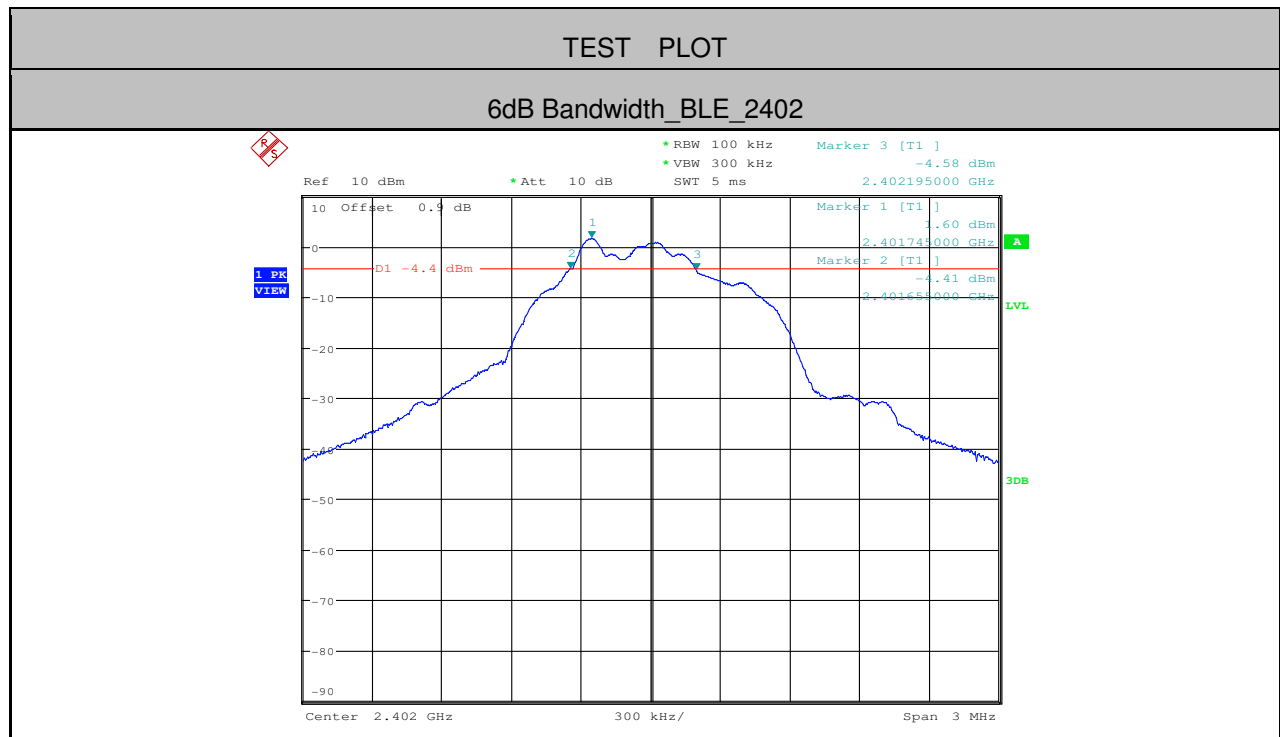


9 Appendix

Appendix 15.247

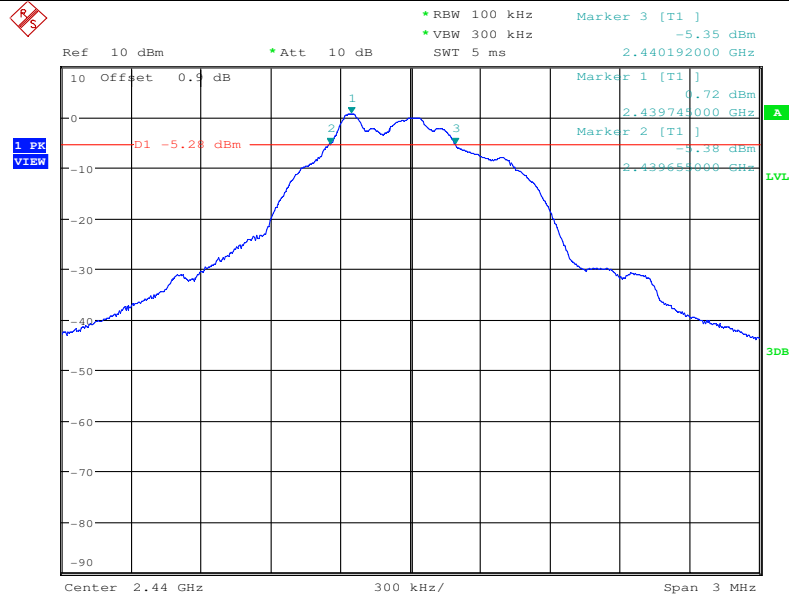
1.6dB Bandwidth

| Test Mode | Test Channel | EBW[MHz] | Limit | Verdict |
|-----------|--------------|----------|------------|---------|
| BLE | 2402 | 0.540 | ≥ 0.5 | PASS |
| BLE | 2440 | 0.537 | ≥ 0.5 | PASS |
| BLE | 2480 | 0.537 | ≥ 0.5 | PASS |

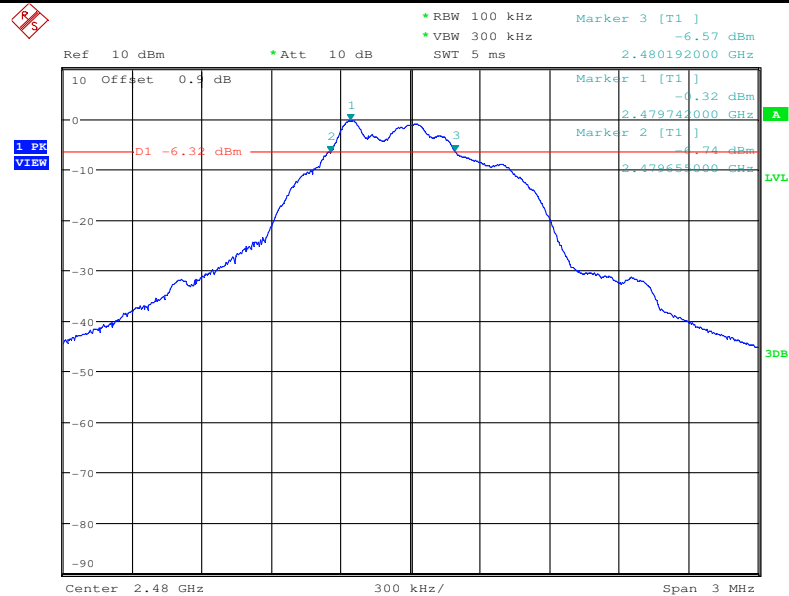




6dB Bandwidth_BLE_2440



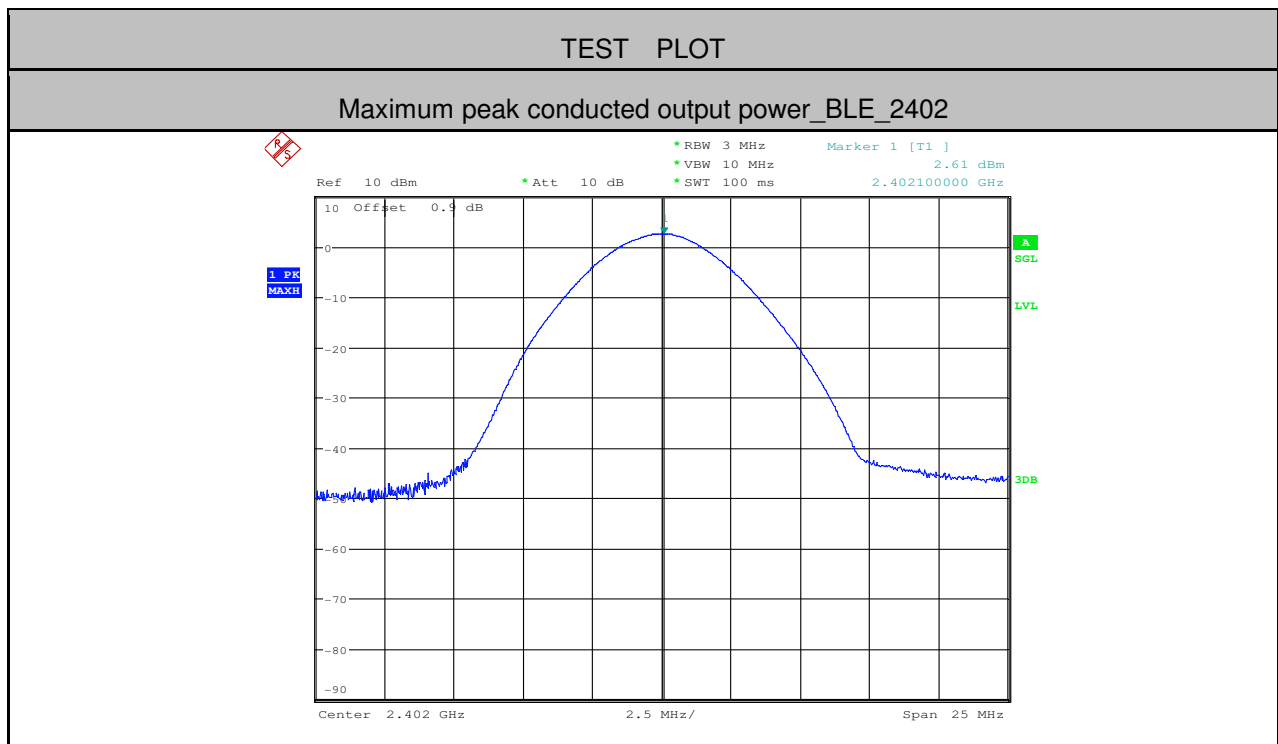
6dB Bandwidth_BLE_2480



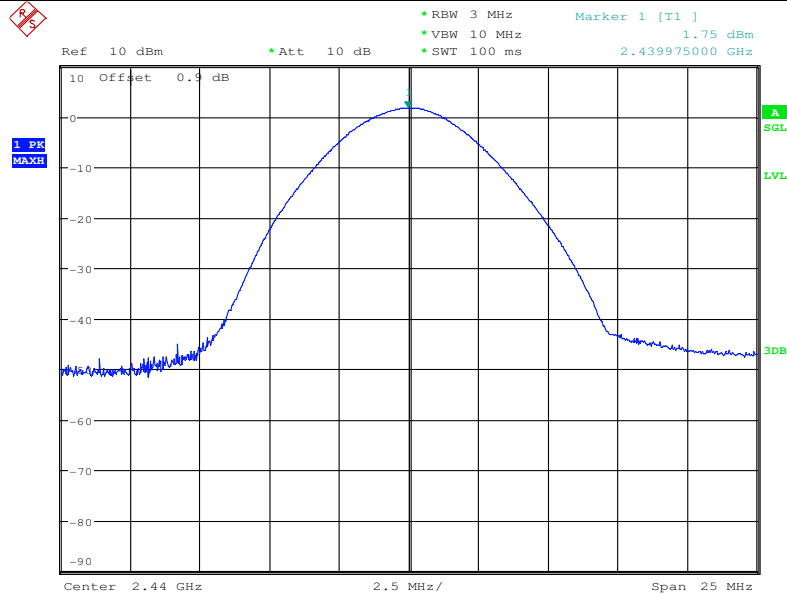


3.Maximum peak conducted output power

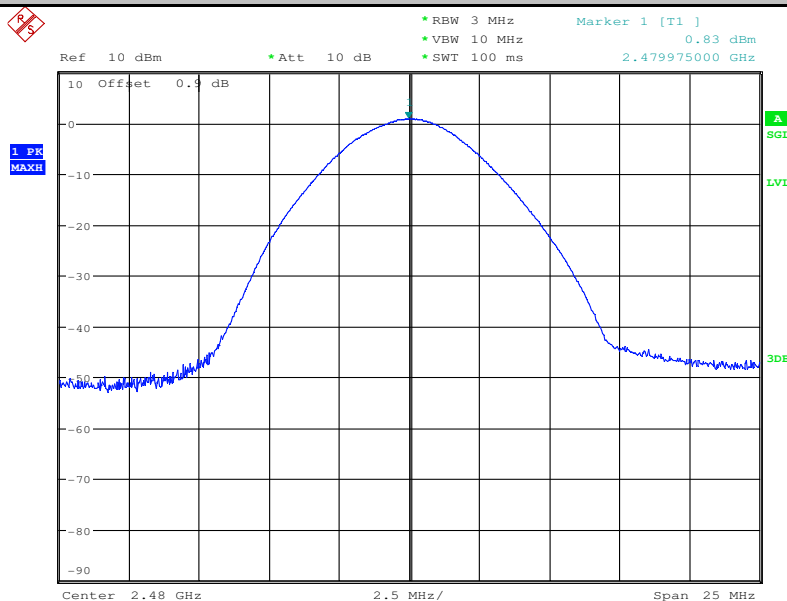
| Test Mode | Test Channel | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------------|------------|---------|
| BLE | 2402 | 2.61 | <30 | PASS |
| BLE | 2440 | 1.75 | <30 | PASS |
| BLE | 2480 | 0.83 | <30 | PASS |



Maximum peak conducted output power_BLE_2440



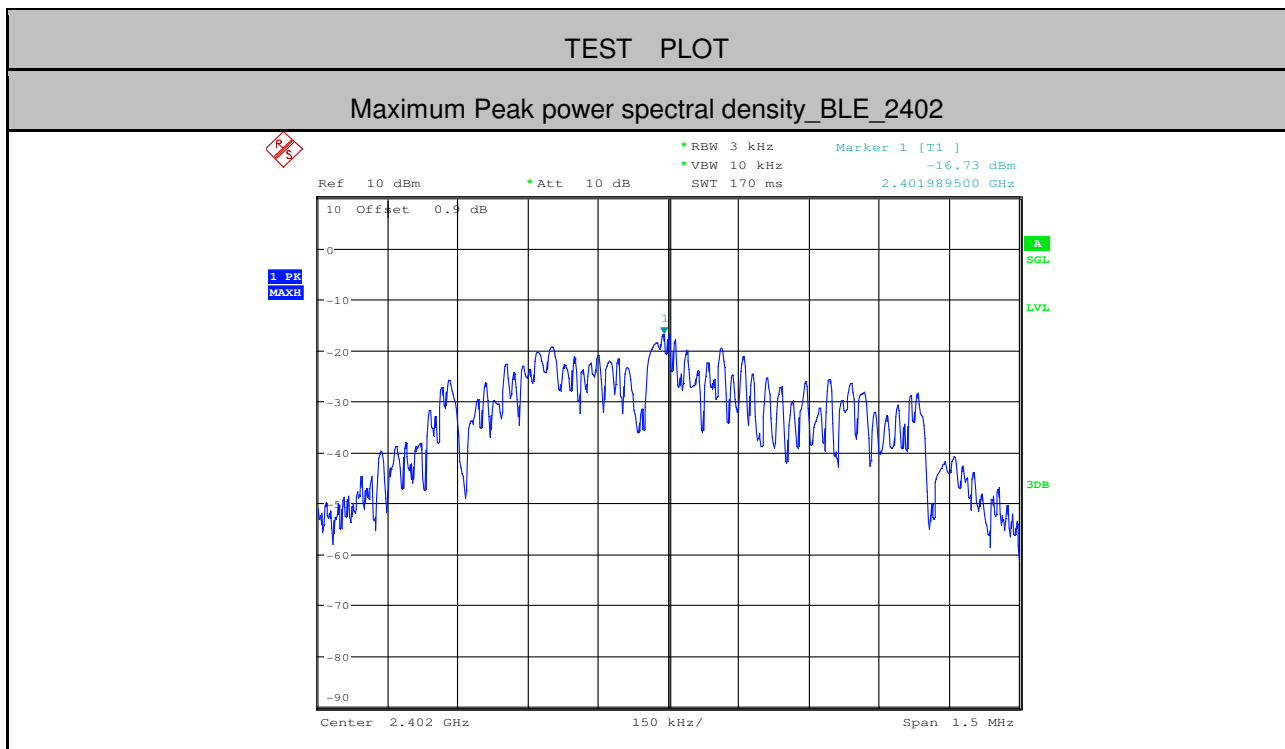
Maximum peak conducted output power_BLE_2480





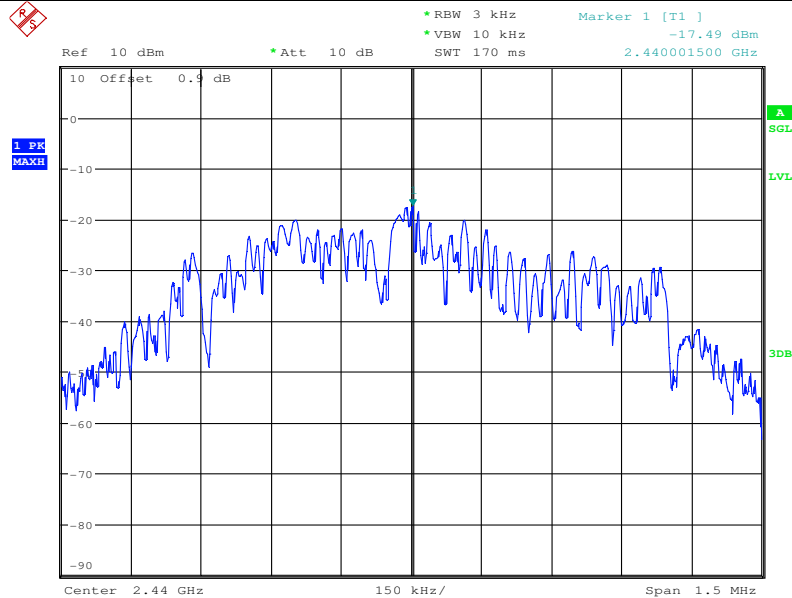
4.Maximum Peak power spectral density

| Test Mode | Test Channel | PSD[dBm/MHz] | Limit[dBm/MHz] | Verdict |
|-----------|--------------|--------------|----------------|---------|
| BLE | 2402 | -16.73 | <8.00 | PASS |
| BLE | 2440 | -17.49 | <8.00 | PASS |
| BLE | 2480 | -18.41 | <8.00 | PASS |

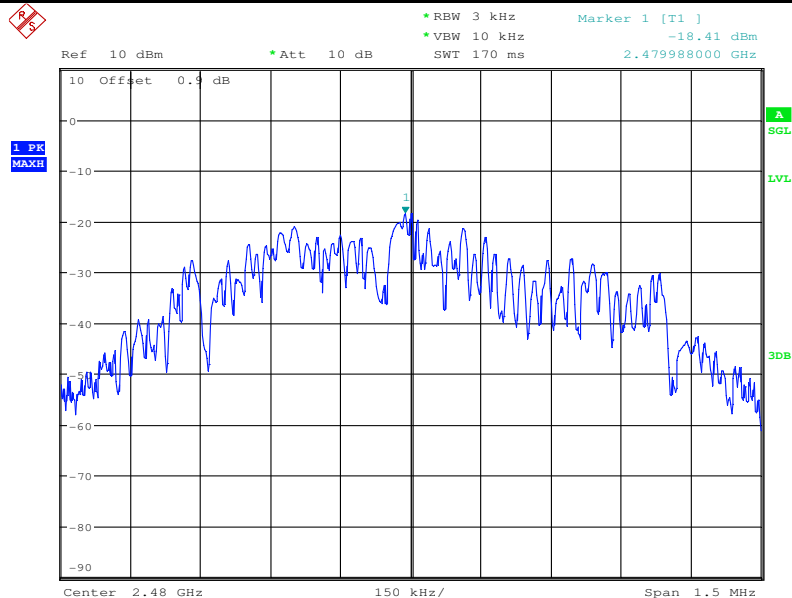




Maximum Peak power spectral density_BLE_2440



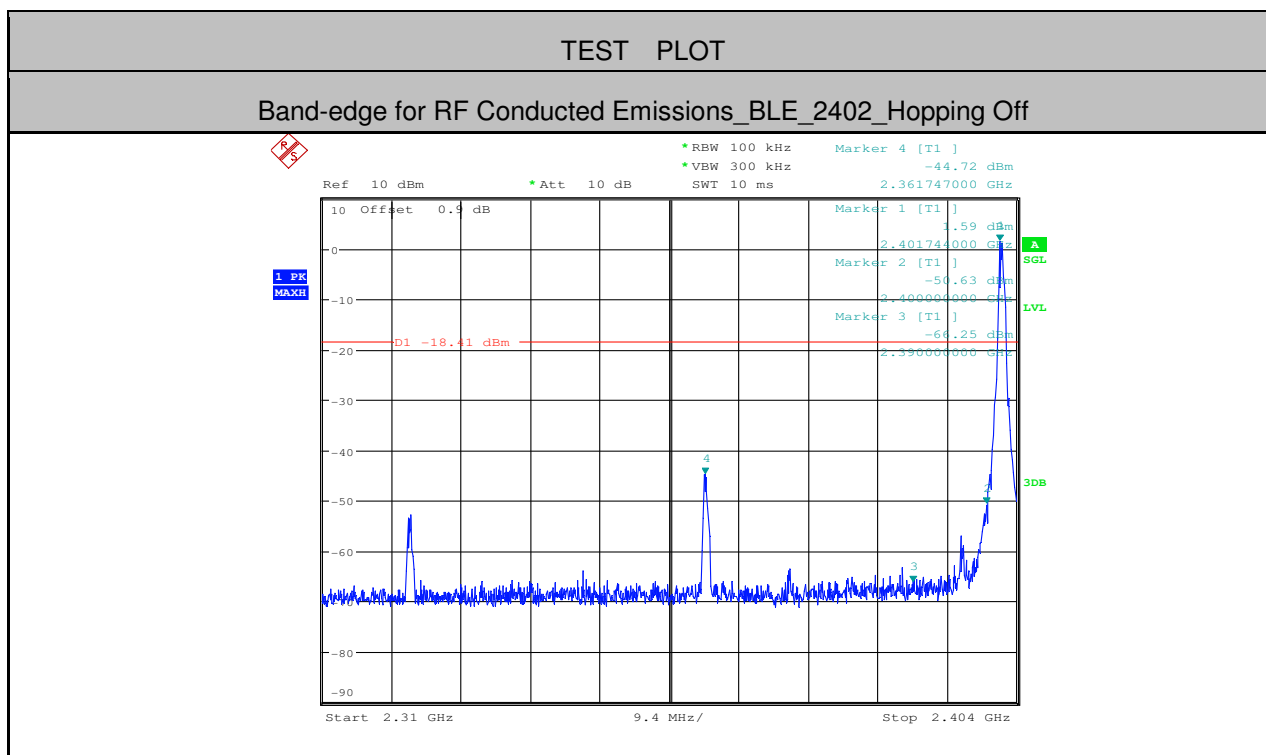
Maximum Peak power spectral density_BLE_2480

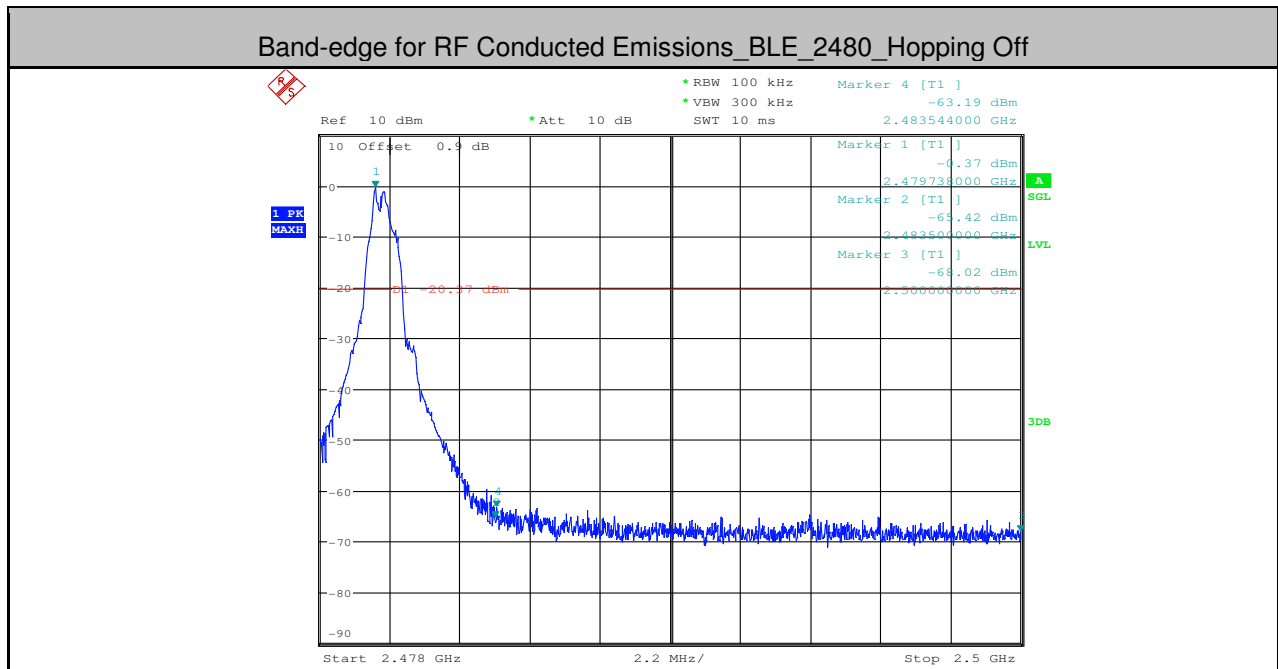




5.Band-edge for RF Conducted Emissions

| Test Mode | Test Channel | Carrier Power[dBm] | Max. Spurious Level [dBm] | Limit[dBm] | Verdict |
|-----------|--------------|--------------------|---------------------------|------------|---------|
| BLE | 2402 | 1.590 | -44.723 | <-18.41 | PASS |
| BLE | 2480 | -0.370 | -63.186 | <-20.37 | PASS |

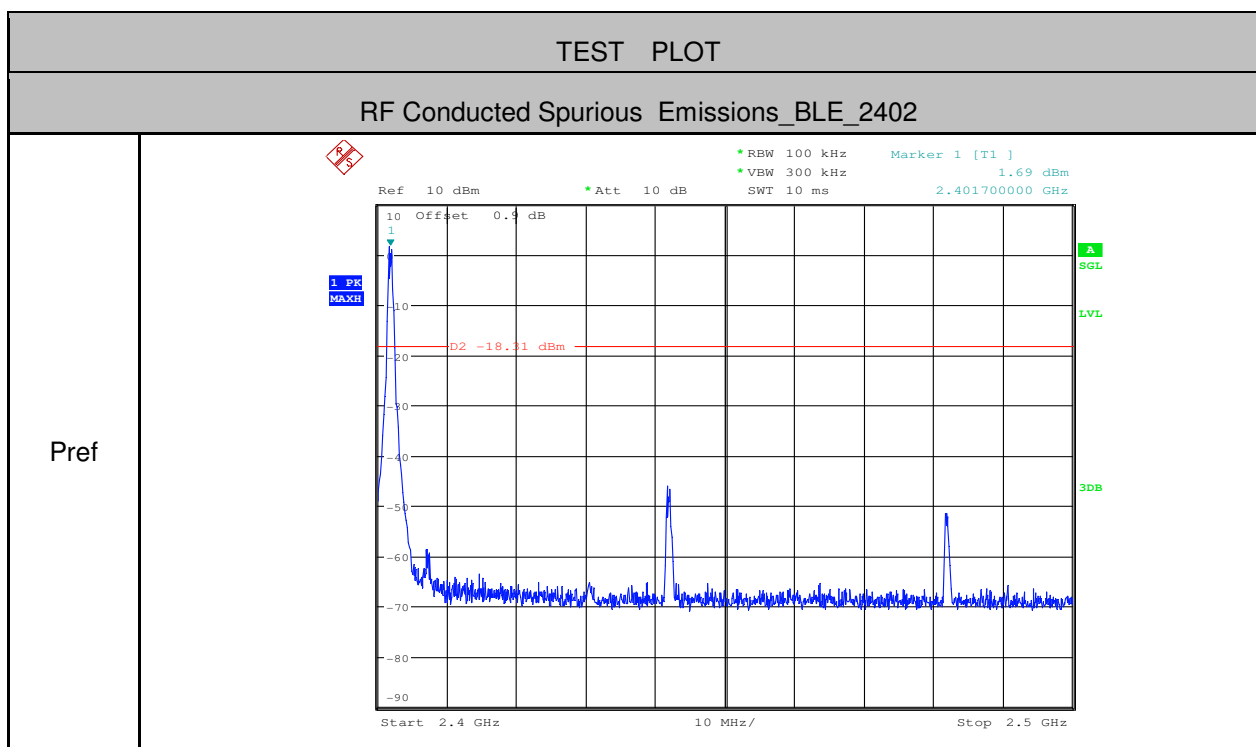






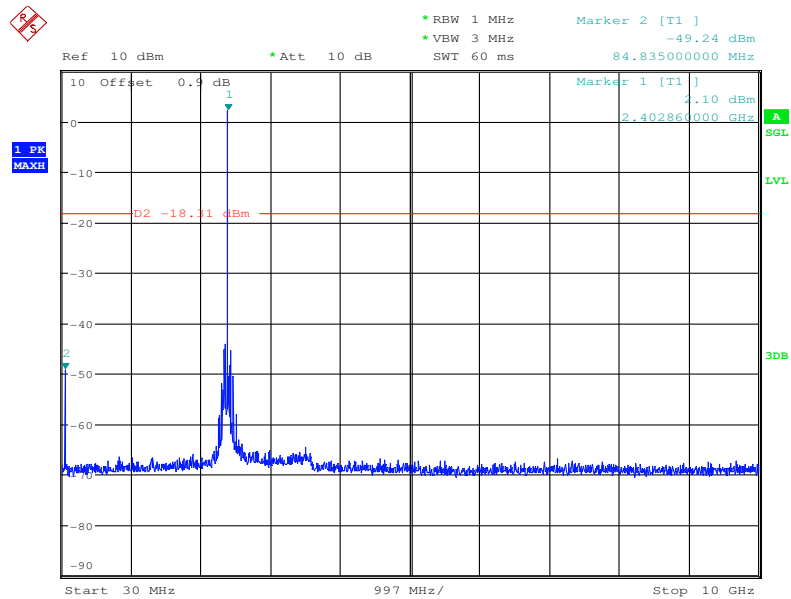
6.RF Conducted Spurious Emissions

| Test Mode | Test Channel | StartFre [MHz] | StopFre [MHz] | RBW [kHz] | VBW [kHz] | Pref[dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|----------------|---------------|-----------|-----------|-----------|------------------|-------------|---------|
| BLE | 2402 | 30 | 10000 | 1000 | 3000 | 1.69 | -49.240 | <-18.31 | PASS |
| BLE | 2402 | 10000 | 25000 | 1000 | 3000 | 1.69 | -64.340 | <-18.31 | PASS |
| BLE | 2440 | 30 | 10000 | 1000 | 3000 | 0.72 | -51.030 | <-19.28 | PASS |
| BLE | 2440 | 10000 | 25000 | 1000 | 3000 | 0.72 | -65.020 | <-19.28 | PASS |
| BLE | 2480 | 30 | 10000 | 1000 | 3000 | -0.31 | -52.680 | <-20.31 | PASS |
| BLE | 2480 | 10000 | 25000 | 1000 | 3000 | -0.31 | -65.140 | <-20.31 | PASS |

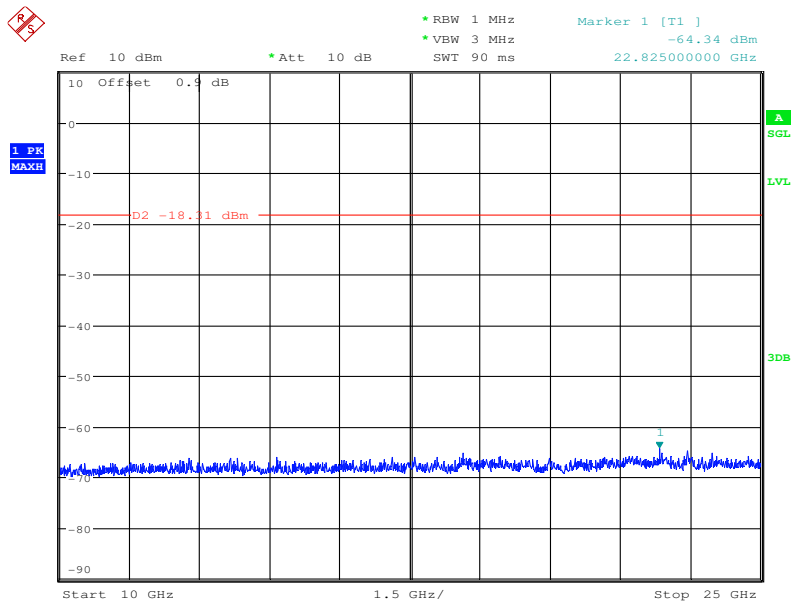


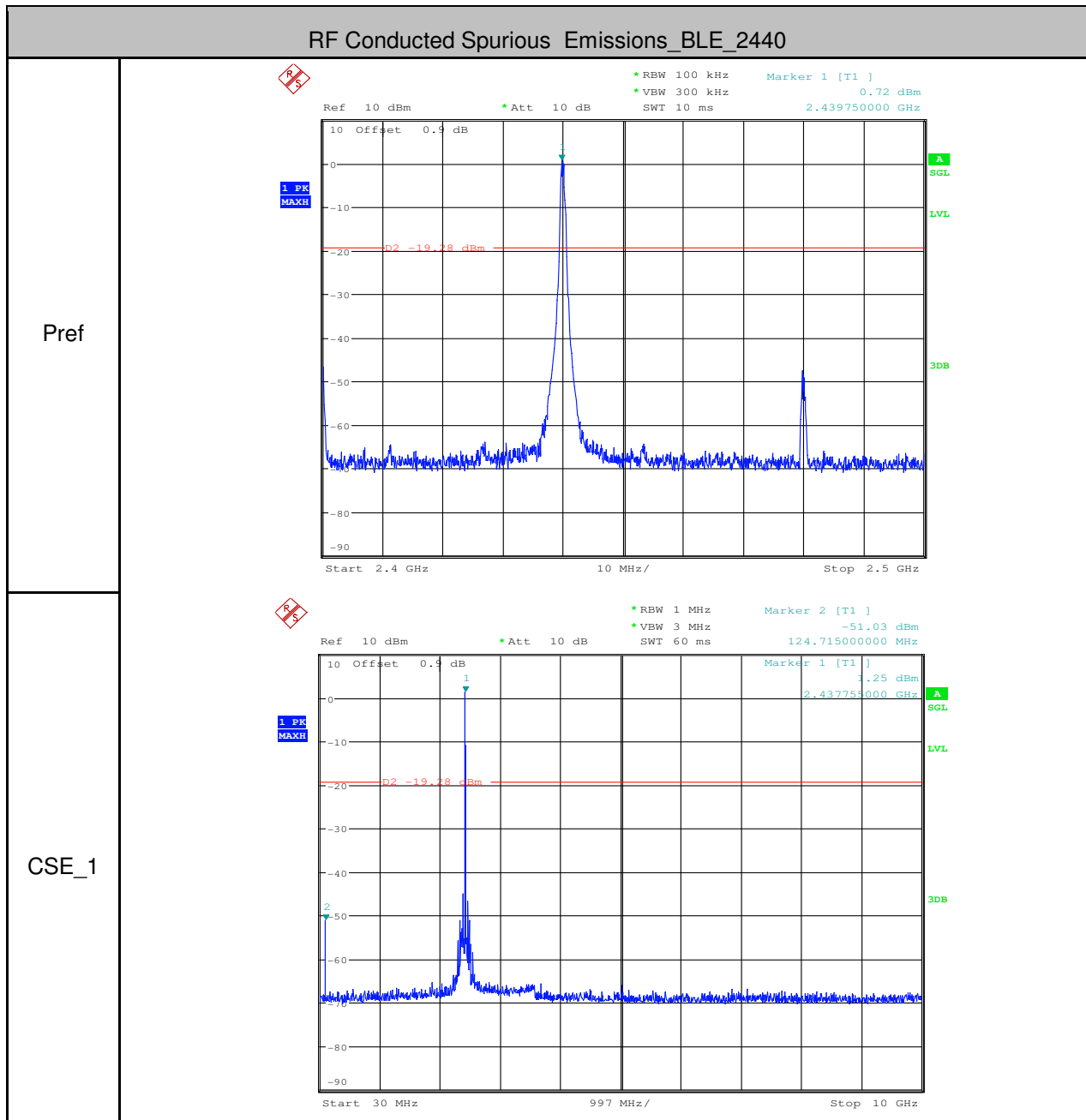


CSE_1



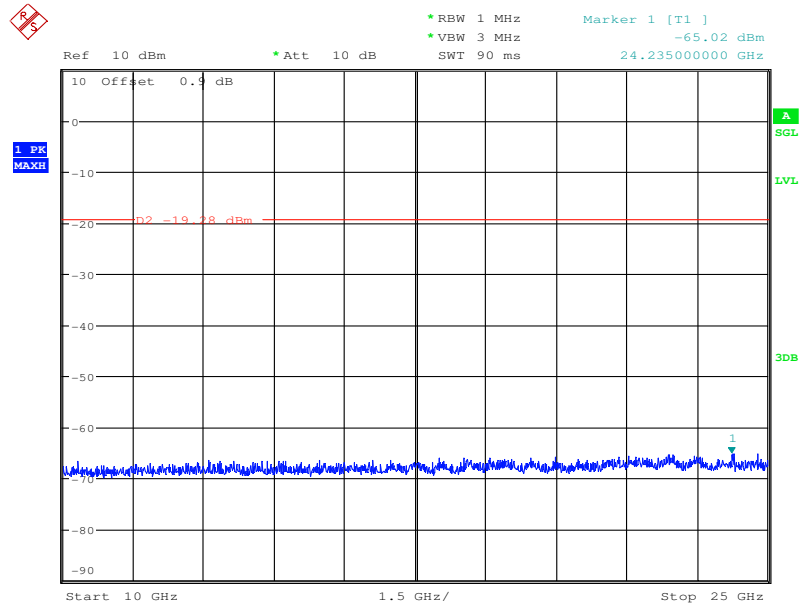
CSE_2





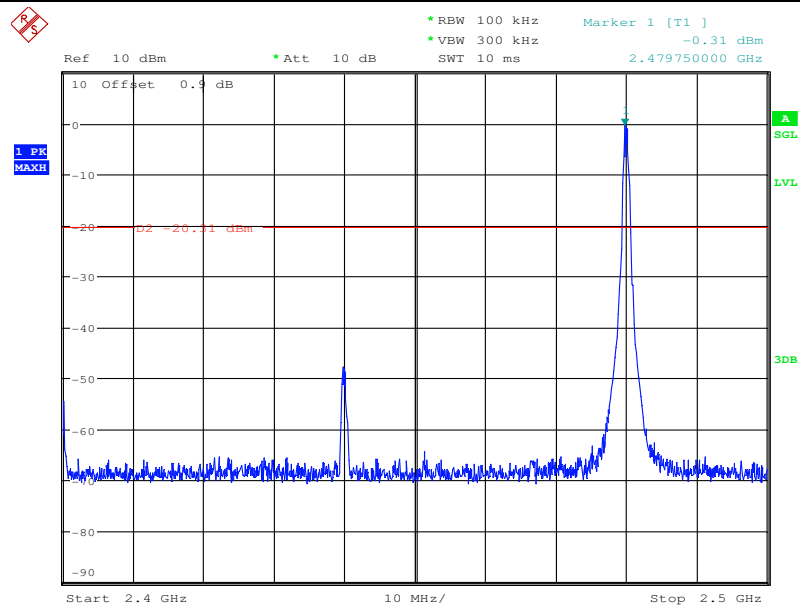


CSE_2



RF Conducted Spurious Emissions_BLE_2480

Pref



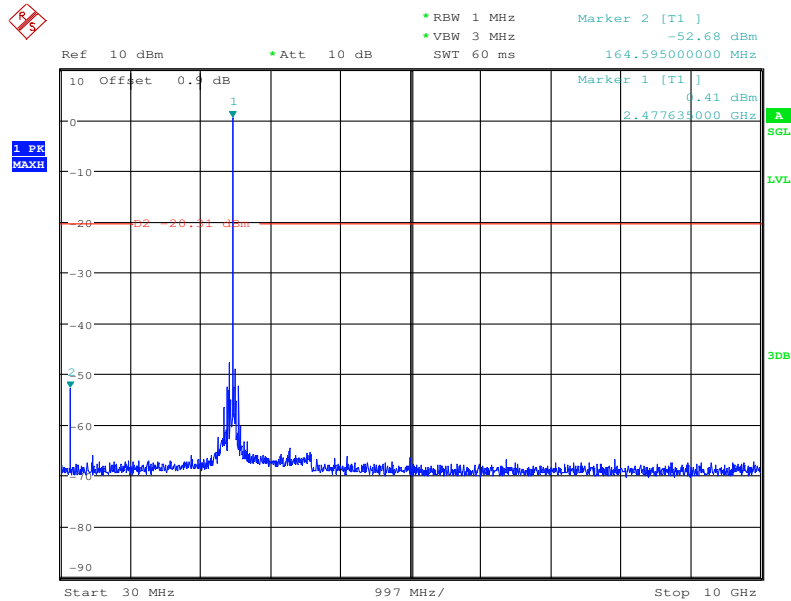


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CSE_1



CSE_2

